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02 26 23	Asbestos Assessment
02 26 26	Lead Assessment
02 26 29	Polychlorinated Biphenyl Assessment
02 26 33	Biological Assessment
02 26 33.13	Mold Assessment
02 26 36	Hazardous Waste Drum Assessment
02 30 00	Subsurface Investigation
02 31 00	Geophysical Investigations
02 31 13	Seismic Investigations
02 31 16	Gravity Investigations
02 31 19	Magnetic Investigations
02 31 23	Electromagnetic Investigations
02 31 26	Electrical Resistivity Investigations
02 31 29	Electrical Resistivity Investigations Magnetotelluric Investigations
02 31 29 02 32 00	Electrical Resistivity Investigations Magnetotelluric Investigations Geotechnical Investigations
02 31 29 02 32 00 02 32 13	Electrical Resistivity Investigations Magnetotelluric Investigations Geotechnical Investigations Subsurface Drilling and Sampling
02 31 29 02 32 00 02 32 13 02 32 16	Electrical Resistivity Investigations Magnetotelluric Investigations Geotechnical Investigations Subsurface Drilling and Sampling Material Testing
02 31 29 02 32 00 02 32 13 02 32 16 02 32 19	Electrical Resistivity Investigations Magnetotelluric Investigations Geotechnical Investigations Subsurface Drilling and Sampling Material Testing Exploratory Excavations
02 31 29 02 32 00 02 32 13 02 32 16 02 32 19 02 32 23	Electrical Resistivity Investigations Magnetotelluric Investigations Geotechnical Investigations Subsurface Drilling and Sampling Material Testing Exploratory Excavations Geotechnical Monitoring Before Construction
02 31 29 02 32 00 02 32 13 02 32 16 02 32 19 02 32 23 02 32 23.13	Electrical Resistivity Investigations Magnetotelluric Investigations Geotechnical Investigations Subsurface Drilling and Sampling Material Testing Exploratory Excavations Geotechnical Monitoring Before Construction Groundwater Monitoring Before Construction
02 31 29 02 32 00 02 32 13 02 32 16 02 32 19 02 32 23	Electrical Resistivity Investigations Magnetotelluric Investigations Geotechnical Investigations Subsurface Drilling and Sampling Material Testing Exploratory Excavations Geotechnical Monitoring Before Construction
02 31 29 02 32 00 02 32 13 02 32 16 02 32 19 02 32 23 02 32 23.13	Electrical Resistivity Investigations Magnetotelluric Investigations Geotechnical Investigations Subsurface Drilling and Sampling Material Testing Exploratory Excavations Geotechnical Monitoring Before Construction Groundwater Monitoring Before Construction
02 31 29 02 32 00 02 32 13 02 32 16 02 32 19 02 32 23 02 32 23.13 02 40 00	Electrical Resistivity Investigations Magnetotelluric Investigations Geotechnical Investigations Subsurface Drilling and Sampling Material Testing Exploratory Excavations Geotechnical Monitoring Before Construction Groundwater Monitoring Before Construction Demolition and Structure Moving
02 31 29 02 32 00 02 32 13 02 32 16 02 32 19 02 32 23 02 32 23.13 02 40 00 02 41 00 02 41 13 02 41 13.13	Electrical Resistivity Investigations Magnetotelluric Investigations Geotechnical Investigations Subsurface Drilling and Sampling Material Testing Exploratory Excavations Geotechnical Monitoring Before Construction Groundwater Monitoring Before Construction Demolition and Structure Moving Demolition Selective Site Demolition Paving Removal
02 31 29 02 32 00 02 32 13 02 32 16 02 32 19 02 32 23 02 32 23.13 02 40 00 02 41 00 02 41 13 02 41 13.13 02 41 13.23	Electrical Resistivity Investigations Magnetotelluric Investigations Geotechnical Investigations Subsurface Drilling and Sampling Material Testing Exploratory Excavations Geotechnical Monitoring Before Construction Groundwater Monitoring Before Construction Demolition and Structure Moving Demolition Selective Site Demolition Paving Removal Utility Line Removal
02 31 29 02 32 00 02 32 13 02 32 16 02 32 19 02 32 23 02 32 23.13 02 40 00 02 41 00 02 41 13 02 41 13.13 02 41 13.23 02 41 13.33	Electrical Resistivity Investigations Magnetotelluric Investigations Geotechnical Investigations Subsurface Drilling and Sampling Material Testing Exploratory Excavations Geotechnical Monitoring Before Construction Groundwater Monitoring Before Construction Demolition and Structure Moving Demolition Selective Site Demolition Paving Removal Utility Line Removal Railtrack Removal
02 31 29 02 32 00 02 32 13 02 32 16 02 32 19 02 32 23 02 32 23.13 02 40 00 02 41 00 02 41 13 02 41 13.13 02 41 13.23 02 41 13.33 02 41 16	Electrical Resistivity Investigations Magnetotelluric Investigations Geotechnical Investigations Subsurface Drilling and Sampling Material Testing Exploratory Excavations Geotechnical Monitoring Before Construction Groundwater Monitoring Before Construction Demolition and Structure Moving Demolition Selective Site Demolition Paving Removal Utility Line Removal Railtrack Removal Structure Demolition
02 31 29 02 32 00 02 32 13 02 32 16 02 32 19 02 32 23 02 32 23.13 02 40 00 02 41 00 02 41 13 02 41 13.13 02 41 13.23 02 41 13.33	Electrical Resistivity Investigations Magnetotelluric Investigations Geotechnical Investigations Subsurface Drilling and Sampling Material Testing Exploratory Excavations Geotechnical Monitoring Before Construction Groundwater Monitoring Before Construction Demolition and Structure Moving Demolition Selective Site Demolition Paving Removal Utility Line Removal Railtrack Removal

02 41 16.43 02 41 19 02 41 19.13	Dam Demolition Selective Demolition Selective Ruilding Demolition
02 41 19.13	Selective Building Demolition Selective Interior Demolition
02 41 19.10	Selective Interior Demolition Selective Facility Services Demolition
02 41 19.33	Selective Bridge Demolition
02 42 00	Removal and Salvage of Construction Materials
02 42 13	Deconstruction of Structures
02 42 13.13	Deconstruction of Buildings
02 43 00	Structure Moving
02 43 13	Structure Relocation
02 43 13.13	Building Relocation
02 43 16	Structure Raising
02 43 16.13	Building Raising
02 50 00	Site Remediation
02 51 00	Physical Decontamination
02 51 13	Coagulation and Flocculation Decontamination
02 51 16	Reverse-Osmosis Decontamination
02 51 19	Solidification and Stabilization Decontamination
02 51 23	Mechanical Filtration Decontamination
02 51 26	Radioactive Decontamination
02 51 29	Surface Cleaning Decontamination
02 51 29.13 02 51 29.16	High-Pressure Water Cleaning Decontamination
02 51 29.10	Vacuum Sweeping Cleaning Decontamination Surface Removal Decontamination
02 51 33.13	Surface Removal Decontamination by Grinding
02 51 33.16	Surface Removal Decontamination by Sand Blasting
02 51 33.19	Surface Removal Decontamination by Ultrasound
02 52 00	Chemical Decontamination
02 52 13	Chemical Precipitation Decontamination
02 52 16	Ion Change Decontamination
02 52 19	Neutralization Decontamination
02 53 00	Thermal Decontamination
02 53 13	Incineration Decontamination
02 53 13.13	Remediation of Contaminated Soils and Sludges by Incineration
02 53 16	Thermal Desorption Decontamination
02 53 16.13	Remediation of Contaminated Soils by Thermal Desorption
02 53 19	Vitrification Decontamination
02 54 00	Biological Decontamination
02 54 13	Aerobic Processes Decontamination
02 54 16	Anaerobic Processes Decontamination
02 54 19	Bioremediation Decontamination
02 54 19.13	Bioremediation Using Landfarming
02 54 19.16	Bioremediation of Soils Using Windrow Composting
02 54 19.19	Bioremediation Using Bacteria Injection
02 54 23	Soil Washing through Separation/Solubilization
02 54 26	Organic Decontamination
02 55 00	Remediation Soil Stabilization
02 56 00	Site Containment
02 56 13	Waste Containment

02 56 13.13 02 56 19	Geomembrane Waste Containment Gas Containment
02 56 19.13	Fluid-Applied Gas Barrier
02 57 00	Sinkhole Remediation
02 57 13	Sinkhole Remediation by Grouting
02 57 13.13	Sinkhole Remediation by Compaction Grouting
02 57 13.16	Sinkhole Remediation by Cap Grouting
02 57 16	Sinkhole Remediation by Backfilling
02 58 00	Snow Control
02 58 13	Snow Fencing
02 58 16	Snow Avalanche Control
02 60 00	Contaminated Site Material Removal
02 61 00	Removal and Disposal of Contaminated Soils
02 61 13	Excavation and Handling of Contaminated Material
02 61 23	Removal and Disposal of Polychlorinate Biphenyl Contaminated Soils
02 61 26	Removal and Disposal of Asbestos Contaminated Soils
02 61 29	Removal and Disposal of Organically Contaminated Soils
02 62 00	Hazardous Waste Recovery Processes
02 62 13	Air and Steam Stripping
02 62 16	Soil Vapor Extraction
02 62 19	Soil Washing and Flushing
02 65 00	Underground Storage Tank Removal
02 70 00	Water Remediation
02 71 00	Groundwater Treatment
02 72 00	Water Decontamination
02 72 13	Chemical Water Decontamination
02 72 16	Biological Water Decontamination
02 72 19	Electrolysis Water Decontamination
02 80 00	Facility Remediation
02 81 00	Transportation and Disposal of Hazardous Materials
02 82 00	Asbestos Remediation
02 82 13	Asbestos Abatement
02 82 13.13	Glovebag Asbestos Abatement
02 82 13.16	Precautions for Asbestos Abatement
02 82 13.19 02 82 13.33	Asbestos Floor Tile and Mastic Abatement Asbestos Abatement for Utilities
02 82 16	Engineering Control of Asbestos Containing Materials
02 82 33	Removal and Disposal of Asbestos Containing Materials
02 83 00	Lead Remediation
02 83 13	Lead Hazard Control Activities
02 83 19	Lead-Based Paint Remediation
02 83 19.13	Lead-Based Paint Abatement
02 83 33	Removal and Disposal of Material Containing Lead
02 83 33.13	Lead-Based Paint Removal and Disposal
02 84 00	Polychlorinate Biphenyl Remediation
02 84 16	Handling of Lighting Ballasts and Lamps Containing PCBs and Mercury
02 84 33	Removal and Disposal of Polychlorinate Biphenyls

02 86 00	Hazardous Waste Drum Handling
02 87 00	Biohazard Remediation
02 87 13	Mold Remediation
02 87 13.13	Precautions for Mold Remediation
02 87 13.16 02 87 13.19	Mold Remediation Preparation and Containment
02 87 13.19	Mold Remediation Clearance Air Sampling Removal and Disposal of Materials with Mold
02 87 16	Excrement Removal
02 87 16.13	Bird Excrement Removal
02 87 16.16	Rodent Excrement Removal
03 00 00	Concrete
03 01 00	Maintenance of Concrete
03 01 10	Maintenance of Concrete Forming and Accessories
03 01 20	Maintenance of Concrete Reinforcing
03 01 23	Maintenance of Stressing Tendons
03 01 30	Maintenance of Cast-in-Place Concrete
03 01 30.51	Cleaning of Cast-in-Place Concrete
03 01 30.61 03 01 30.71	Resurfacing of Cast-in-Place Concrete Rehabilitation of Cast-in-Place Concrete
03 01 30.71	Strengthening of Cast-in-Place Concrete
03 01 40	Maintenance of Precast Concrete
03 01 40.51	Cleaning of Precast Concrete
03 01 40.61	Resurfacing of Precast Concrete
03 01 40.71 03 01 40.72	Rehabilitation of Precast Concrete
03 01 40.72	Strengthening of Precast Concrete Maintenance of Cast Decks and Underlayment
03 01 50.51	Cleaning Cast Decks and Underlayment
03 01 50.61	Resurfacing of Cast Decks and Underlayment
03 01 50.71	Rehabilitation of Cast Decks and Underlayment
03 01 50.72	Strengthening of Cast Decks and Underlayment
03 01 60	Maintenance of Grouting
03 01 70 03 01 80	Maintenance of Mass Concrete
	Maintenance of Concrete Cutting and Boring Concernation Treatment for Period Concrete
03 03 00	Conservation Treatment for Period Concrete
03 03 30 03 03 31	Conservation Treatment for Period Cast-in-Place Concrete Conservation Treatment for Period Structural Concrete
03 03 31	Conservation Treatment for Period Architectural Concrete
03 05 00	Common Work Results for Concrete
03 05 05	Selective Demolition for Concrete
03 06 00	Schedules for Concrete
03 06 10	Schedules for Concrete Forming and Accessories
03 06 20	Schedules for Concrete Reinforcing
03 06 20.13	Concrete Beam Reinforcing Schedule
03 06 20.16	Concrete Slab Reinforcing Schedule
03 06 30	Schedules for Cast-in-Place Concrete
03 06 30.13 03 06 30.16	Concrete Footing Schedule Concrete Column Schedule
03 06 30.19	Concrete Slab Schedule
03 06 30.23	Concrete Shaft Schedule
03 06 30.26	Concrete Beam Schedule
03 06 40	Schedules for Precast Concrete

	03 06 40.13 03 06 50	Precast Concrete Panel Schedule Schedules for Cast Decks and Underlayment
	03 06 60	Schedules for Grouting
	03 06 70	Schedules for Mass Concrete
	03 06 80	Schedules for Concrete Cutting and Boring
03	08 00	Commissioning of Concrete
	10 00	Concrete Forming and Accessories
03	11 00	Concrete Forming
	03 11 13	Structural Cast-in-Place Concrete Forming
	03 11 13.13 03 11 13.16	Concrete Slip Forming Concrete Shoring
	03 11 13.10	Falsework
	03 11 16	Architectural Cast-in Place Concrete Forming
	03 11 16.13	Concrete Form Liners
	03 11 19	Insulating Concrete Forming
	03 11 23 03 11 26	Permanent Stair Forming
^ 2		Permanent Tier Forming
U3	15 00	Concrete Accessories
	03 15 13 03 15 13.13	Waterstops Non-Expanding Waterstops
	03 15 13.16	Expanding Waterstops
	03 15 13.19	Combination Expanding and Injection Hose Waterstops
	03 15 13.21	Injection Hose Waterstops
	03 15 16	Concrete Construction Joints
	03 15 19 03 15 21	Cast-In Concrete Anchors Termite Barrier
റാ		
	20 00	Concrete Reinforcing
03	21 00	Reinforcement Bars
	03 21 11	Plain Steel Reinforcement Bars
	03 21 13	Galvanized Reinforcement Steel Bars
	03 21 16 03 21 19	Epoxy-Coated Reinforcement Steel Bars Stainless Steel Reinforcement Bars
	03 21 19	Composite Reinforcement Bars
	03 21 21.11	Glass Fiber-Reinforced Polymer Reinforcement Bars
	03 21 21.13	Organic Fiber-Reinforced Polymer Reinforcement Bars
	03 21 21.16	Carbon Fiber-Reinforced Polymer Reinforcement Bars
03	22 00	Fabric and Grid Reinforcing
	03 22 13	Galvanized Welded Wire Fabric Reinforcing
	03 22 16 03 22 19	Epoxy-Coated Welded Wire Fabric Reinforcing
റാ	23 00	Composite Grid Reinforcing
		Stressed Tendon Reinforcing
	24 00	Fibrous Reinforcing
03	25 00	Composite Reinforcing
	03 25 13	Glass Fiber-Reinforced Polymer Reinforcing
	03 25 16 03 25 19	Organic Fiber-Reinforced Polymer Reinforcing
^^		Carbon Fiber-Reinforced Polymer Reinforcing
U3	30 00	Cast-in-Place Concrete
	03 30 53	Miscellaneous Cast-in-Place Concrete

03 31 00	Structural Concrete
03 31 13	Heavyweight Structural Concrete
03 31 16	Lightweight Structural Concrete
03 31 19	Shrinkage-Compensating Structural Concrete
03 31 23	High-Performance Structural Concrete
03 31 24	Ultra High-Performance Structural Concrete
03 31 26	Self-Compacting Concrete
03 33 00	Architectural Concrete
03 33 13	Heavyweight Architectural Concrete
03 33 16	Lightweight Architectural Concrete
03 34 00	Low Density Concrete
03 35 00	Concrete Finishing
03 35 13	High-Tolerance Concrete Floor Finishing
03 35 16	Heavy-Duty Concrete Floor Finishing
03 35 19	Colored Concrete Finishing
03 35 23	Exposed Aggregate Concrete Finishing
03 35 26 03 35 29	Grooved Concrete Surface Finishing Tooled Concrete Finishing
03 35 33	Stamped Concrete Finishing
03 35 43	Polished Concrete Finishing
03 35 43.13	Polished and Dyed Concrete Finishing
03 35 43.16	Polished and Stained Concrete Finishing
03 35 46	Concrete Topical Treatments
03 37 00	Specialty Placed Concrete
03 37 13	Shotcrete
03 37 16	Pumped Concrete
03 37 19	Pneumatically Placed Concrete
03 37 23	Roller-Compacted Concrete
03 37 26	Underwater Placed Concrete
03 38 00	Post-Tensioned Concrete
03 38 13	Post-Tensioned Concrete Preparation
03 38 16	Unbonded Post-Tensioned Concrete
03 38 19	Bonded Post-Tensioned Concrete
03 39 00	Concrete Curing
03 39 13	Water Concrete Curing
03 39 16	Sand Concrete Curing
03 39 23 03 39 23.13	Membrane Concrete Curing Chemical Compound Membrane Concrete Curing
03 39 23.13	Sheet Membrane Concrete Curing
03 40 00	Precast Concrete
	Precast Structural Concrete
03 41 00	
03 41 13 03 41 16	Precast Concrete Hollow Core Planks Precast Concrete Slabs
03 41 10	Precast Concrete Stairs
03 41 33	Precast Structural Pretensioned Concrete
03 41 36	
	Precast Structural Post-Tensioned Concrete
	Precast Architectural Concrete
03 45 00 03 45 13	Precast Structural Post-Tensioned Concrete Precast Architectural Concrete Faced Architectural Precast Concrete

03 45 33	Precast Architectural Pretensioned Concrete
03 45 36	Precast Architectural Post-Tensioned Concrete
03 47 00	Site-Cast Concrete
03 47 13	Tilt-Up Concrete
03 47 16	Lift-Slab Concrete
03 48 00	Precast Concrete Specialties
03 48 13	Precast Concrete Bollards
03 48 13.11	Precast Concrete Security Bollards
03 48 16	Precast Concrete Splash Blocks
03 48 19	Precast Concrete Stair Treads
03 48 26	Precast Concrete Parking Bumpers
03 48 33	Precast Pre-Framed Concrete Panels
03 48 43	Precast Concrete Trim
03 49 00	Glass-Fiber-Reinforced Concrete
03 49 13	Glass-Fiber-Reinforced Concrete Column Covers
03 49 16	Glass-Fiber-Reinforced Concrete Spandrels
03 49 43	Glass-Fiber-Reinforced Concrete Trim
03 50 00	Cast Decks and Underlayment
03 51 00	Cast Roof Decks
03 51 13	Cementitious Wood Fiber Decks
03 51 16	Gypsum Concrete Roof Decks
03 52 00	Lightweight Concrete Roof Insulation
03 52 13	Composite Concrete Roof Insulation
03 52 16	Lightweight Insulating Concrete
03 52 16.13	Lightweight Cellular Insulating Concrete
03 52 16.16	Lightweight Aggregate Insulating Concrete
03 53 00	Concrete Topping
03 53 13	Emery-Aggregate Concrete Topping
03 53 16	Iron-Aggregate Concrete Topping
03 53 19	Concrete Overlayment
03 54 00	Cast Underlayment
03 54 13	Gypsum Cement Underlayment
03 54 16	Hydraulic Cement Underlayment
03 60 00	Grouting
03 61 00	Cementitious Grouting
03 61 13	Dry-Pack Grouting
03 62 00	Non-Shrink Grouting
03 62 13	Non-Metallic Non-Shrink Grouting
03 62 16	Metallic Non-Shrink Grouting
03 63 00	Epoxy Grouting
03 64 00	Injection Grouting
03 64 23	Epoxy Injection Grouting
03 70 00	Mass Concrete
03 71 00	Mass Concrete for Raft Foundations
03 72 00	Mass Concrete for Dams

03 80 00	Concrete Cutting and Boring
03 81 00	Concrete Cutting
03 81 13	Flat Concrete Sawing
03 81 16	Track Mounted Concrete Wall Sawing
03 81 19	Wire Concrete Wall Sawing
03 81 23	Hand Concrete Wall Sawing
03 81 26	Chain Concrete Wall Sawing
03 82 00	Concrete Boring
03 82 13	Concrete Core Drilling
04 00 00	Masonry
04 01 00	Maintenance of Masonry
04 01 20	Maintenance of Unit Masonry
04 01 20.41	Unit Masonry Stabilization
04 01 20.51	Unit Masonry Maintenance
04 01 20.52	Unit Masonry Cleaning
04 01 20.91 04 01 20.93	Unit Masonry Restoration Testing and Sampling Brick Units for Restoration
04 01 40	Maintenance of Stone Assemblies
04 01 40.51	Stone Maintenance
04 01 40.52	Stone Cleaning
04 01 40.91	Stone Restoration
04 01 50	Maintenance of Refractory Masonry
04 01 60	Maintenance of Corrosion-Resistant Masonry
04 01 70	Maintenance of Manufactured Masonry
04 03 00	Conservation Treatment for Period Masonry
04 03 01	Maintenance for Period Masonry
04 03 01 04 03 01.13	Maintenance for Period Masonry Period Masonry Cleaning
04 03 01 04 03 01.13 04 03 05	Maintenance for Period Masonry Period Masonry Cleaning Common Work Results for Period Masonry
04 03 01 04 03 01.13 04 03 05 04 03 05.13	Maintenance for Period Masonry Period Masonry Cleaning Common Work Results for Period Masonry Period Masonry Mortaring
04 03 01 04 03 01.13 04 03 05 04 03 05.13 04 03 05.16	Maintenance for Period Masonry Period Masonry Cleaning Common Work Results for Period Masonry Period Masonry Mortaring Period Masonry Grouting
04 03 01 04 03 01.13 04 03 05 04 03 05.13 04 03 05.16 04 03 05.19	Maintenance for Period Masonry Period Masonry Cleaning Common Work Results for Period Masonry Period Masonry Mortaring Period Masonry Grouting Period Masonry Anchorage and Reinforcing
04 03 01 04 03 01.13 04 03 05 04 03 05.13 04 03 05.16	Maintenance for Period Masonry Period Masonry Cleaning Common Work Results for Period Masonry Period Masonry Mortaring Period Masonry Grouting
04 03 01 04 03 01.13 04 03 05 04 03 05.13 04 03 05.16 04 03 05.19 04 03 21 04 03 21.19 04 03 21.21	Maintenance for Period Masonry Period Masonry Cleaning Common Work Results for Period Masonry Period Masonry Mortaring Period Masonry Grouting Period Masonry Anchorage and Reinforcing Conservation Treatment for Period Clay Unit Masonry Clay Brick Conservation Treatment Terra Cotta Conservation Treatment
04 03 01 04 03 01.13 04 03 05 04 03 05.13 04 03 05.16 04 03 05.19 04 03 21 04 03 21.19 04 03 21.21 04 03 21.23	Maintenance for Period Masonry Period Masonry Cleaning Common Work Results for Period Masonry Period Masonry Mortaring Period Masonry Grouting Period Masonry Anchorage and Reinforcing Conservation Treatment for Period Clay Unit Masonry Clay Brick Conservation Treatment Terra Cotta Conservation Treatment Fiance Block Conservation Treatment
04 03 01 04 03 01.13 04 03 05 04 03 05.13 04 03 05.16 04 03 05.19 04 03 21 04 03 21.19 04 03 21.21 04 03 21.23 04 03 22	Maintenance for Period Masonry Period Masonry Cleaning Common Work Results for Period Masonry Period Masonry Mortaring Period Masonry Grouting Period Masonry Anchorage and Reinforcing Conservation Treatment for Period Clay Unit Masonry Clay Brick Conservation Treatment Terra Cotta Conservation Treatment Fiance Block Conservation Treatment Conservation Treatment
04 03 01 04 03 01.13 04 03 05 04 03 05.13 04 03 05.16 04 03 05.19 04 03 21 04 03 21.19 04 03 21.21 04 03 21.23 04 03 22 04 03 24	Maintenance for Period Masonry Period Masonry Cleaning Common Work Results for Period Masonry Period Masonry Mortaring Period Masonry Grouting Period Masonry Anchorage and Reinforcing Conservation Treatment for Period Clay Unit Masonry Clay Brick Conservation Treatment Terra Cotta Conservation Treatment Fiance Block Conservation Treatment Conservation Treatment for Period Concrete Unit Masonry Conservation Treatment for Period Adobe Unit Masonry
04 03 01 04 03 01.13 04 03 05 04 03 05.13 04 03 05.16 04 03 05.19 04 03 21 04 03 21.19 04 03 21.21 04 03 21.23 04 03 22 04 03 24 04 03 43	Maintenance for Period Masonry Period Masonry Cleaning Common Work Results for Period Masonry Period Masonry Mortaring Period Masonry Grouting Period Masonry Anchorage and Reinforcing Conservation Treatment for Period Clay Unit Masonry Clay Brick Conservation Treatment Terra Cotta Conservation Treatment Fiance Block Conservation Treatment Conservation Treatment for Period Concrete Unit Masonry Conservation Treatment for Period Adobe Unit Masonry Conservation Treatment for Period Stone Masonry
04 03 01 04 03 01.13 04 03 05 04 03 05.13 04 03 05.16 04 03 05.19 04 03 21 04 03 21.19 04 03 21.21 04 03 21.23 04 03 22 04 03 24 04 03 43 04 05 00	Maintenance for Period Masonry Period Masonry Cleaning Common Work Results for Period Masonry Period Masonry Mortaring Period Masonry Grouting Period Masonry Anchorage and Reinforcing Conservation Treatment for Period Clay Unit Masonry Clay Brick Conservation Treatment Terra Cotta Conservation Treatment Fiance Block Conservation Treatment Conservation Treatment for Period Concrete Unit Masonry Conservation Treatment for Period Adobe Unit Masonry Conservation Treatment for Period Stone Masonry Common Work Results for Masonry
04 03 01 04 03 01.13 04 03 05 04 03 05.13 04 03 05.16 04 03 05.19 04 03 21 04 03 21.19 04 03 21.21 04 03 21.23 04 03 22 04 03 24 04 03 43 04 05 00 04 05 05	Maintenance for Period Masonry Period Masonry Cleaning Common Work Results for Period Masonry Period Masonry Mortaring Period Masonry Grouting Period Masonry Anchorage and Reinforcing Conservation Treatment for Period Clay Unit Masonry Clay Brick Conservation Treatment Terra Cotta Conservation Treatment Fiance Block Conservation Treatment Conservation Treatment for Period Concrete Unit Masonry Conservation Treatment for Period Adobe Unit Masonry Conservation Treatment for Period Stone Masonry Common Work Results for Masonry Selective Demolition for Masonry
04 03 01 04 03 01.13 04 03 05 04 03 05.13 04 03 05.16 04 03 05.19 04 03 21 04 03 21.19 04 03 21.21 04 03 21.23 04 03 22 04 03 24 04 03 43 04 05 00 04 05 05 04 05 13	Maintenance for Period Masonry Period Masonry Cleaning Common Work Results for Period Masonry Period Masonry Mortaring Period Masonry Grouting Period Masonry Anchorage and Reinforcing Conservation Treatment for Period Clay Unit Masonry Clay Brick Conservation Treatment Terra Cotta Conservation Treatment Fiance Block Conservation Treatment Conservation Treatment for Period Concrete Unit Masonry Conservation Treatment for Period Adobe Unit Masonry Conservation Treatment for Period Stone Masonry Common Work Results for Masonry Selective Demolition for Masonry Masonry Mortaring
04 03 01 04 03 01.13 04 03 05 04 03 05.13 04 03 05.16 04 03 05.19 04 03 21 04 03 21.19 04 03 21.21 04 03 21.23 04 03 22 04 03 24 04 03 43 04 05 00 04 05 05 04 05 13 04 05 13.16	Maintenance for Period Masonry Period Masonry Cleaning Common Work Results for Period Masonry Period Masonry Mortaring Period Masonry Grouting Period Masonry Anchorage and Reinforcing Conservation Treatment for Period Clay Unit Masonry Clay Brick Conservation Treatment Terra Cotta Conservation Treatment Fiance Block Conservation Treatment Conservation Treatment for Period Concrete Unit Masonry Conservation Treatment for Period Adobe Unit Masonry Conservation Treatment for Period Stone Masonry Common Work Results for Masonry Selective Demolition for Masonry Masonry Mortaring Chemical-Resistant Masonry Mortaring
04 03 01 04 03 01.13 04 03 05 04 03 05.13 04 03 05.16 04 03 05.19 04 03 21 04 03 21.19 04 03 21.21 04 03 21.23 04 03 22 04 03 24 04 03 43 04 05 00 04 05 05 04 05 13.16 04 05 13.19	Maintenance for Period Masonry Period Masonry Cleaning Common Work Results for Period Masonry Period Masonry Mortaring Period Masonry Grouting Period Masonry Anchorage and Reinforcing Conservation Treatment for Period Clay Unit Masonry Clay Brick Conservation Treatment Terra Cotta Conservation Treatment Fiance Block Conservation Treatment Conservation Treatment for Period Concrete Unit Masonry Conservation Treatment for Period Adobe Unit Masonry Conservation Treatment for Period Stone Masonry Conservation Treatment for Period Stone Masonry Selective Demolition for Masonry Masonry Mortaring Chemical-Resistant Masonry Mortaring Epoxy Masonry Mortaring
04 03 01 04 03 01.13 04 03 05 04 03 05.13 04 03 05.16 04 03 05.19 04 03 21 04 03 21.19 04 03 21.21 04 03 21.23 04 03 22 04 03 24 04 03 43 04 05 00 04 05 05 04 05 13 04 05 13.16	Maintenance for Period Masonry Period Masonry Cleaning Common Work Results for Period Masonry Period Masonry Mortaring Period Masonry Grouting Period Masonry Anchorage and Reinforcing Conservation Treatment for Period Clay Unit Masonry Clay Brick Conservation Treatment Terra Cotta Conservation Treatment Fiance Block Conservation Treatment Conservation Treatment for Period Concrete Unit Masonry Conservation Treatment for Period Adobe Unit Masonry Conservation Treatment for Period Stone Masonry Common Work Results for Masonry Selective Demolition for Masonry Masonry Mortaring Chemical-Resistant Masonry Mortaring
04 03 01 04 03 01.13 04 03 05 04 03 05.13 04 03 05.16 04 03 05.19 04 03 21 04 03 21.19 04 03 21.21 04 03 21.23 04 03 22 04 03 24 04 03 43 04 05 00 04 05 13 04 05 13.16 04 05 13.23 04 05 13.23 04 05 13.23 04 05 13.23	Maintenance for Period Masonry Period Masonry Cleaning Common Work Results for Period Masonry Period Masonry Mortaring Period Masonry Grouting Period Masonry Anchorage and Reinforcing Conservation Treatment for Period Clay Unit Masonry Clay Brick Conservation Treatment Terra Cotta Conservation Treatment Fiance Block Conservation Treatment Conservation Treatment for Period Concrete Unit Masonry Conservation Treatment for Period Adobe Unit Masonry Conservation Treatment for Period Stone Masonry Conservation Treatment for Period Stone Masonry Common Work Results for Masonry Selective Demolition for Masonry Masonry Mortaring Chemical-Resistant Masonry Mortaring Epoxy Masonry Mortaring Surface Bonding Masonry Mortaring Engineered Masonry Mortaring Refractory Masonry Mortaring
04 03 01 04 03 01.13 04 03 05 04 03 05.13 04 03 05.16 04 03 05.19 04 03 21 04 03 21.19 04 03 21.21 04 03 21.23 04 03 22 04 03 24 04 03 43 04 05 00 04 05 05 04 05 13 04 05 13.16 04 05 13.23 04 05 13.23 04 05 13.29 04 05 13.91	Maintenance for Period Masonry Period Masonry Cleaning Common Work Results for Period Masonry Period Masonry Mortaring Period Masonry Grouting Period Masonry Anchorage and Reinforcing Conservation Treatment for Period Clay Unit Masonry Clay Brick Conservation Treatment Terra Cotta Conservation Treatment Fiance Block Conservation Treatment Conservation Treatment for Period Concrete Unit Masonry Conservation Treatment for Period Adobe Unit Masonry Conservation Treatment for Period Stone Masonry Conservation Treatment for Period Stone Masonry Common Work Results for Masonry Selective Demolition for Masonry Masonry Mortaring Chemical-Resistant Masonry Mortaring Epoxy Masonry Mortaring Surface Bonding Masonry Mortaring Engineered Masonry Mortaring Refractory Masonry Mortaring Masonry Restoration Mortaring
04 03 01 04 03 01.13 04 03 05.13 04 03 05.16 04 03 05.16 04 03 05.19 04 03 21.19 04 03 21.21 04 03 21.21 04 03 21.23 04 03 22 04 03 24 04 03 43 04 05 00 04 05 05 04 05 13 04 05 13.16 04 05 13.23 04 05 13.29 04 05 13.91 04 05 16	Maintenance for Period Masonry Period Masonry Cleaning Common Work Results for Period Masonry Period Masonry Mortaring Period Masonry Grouting Period Masonry Anchorage and Reinforcing Conservation Treatment for Period Clay Unit Masonry Clay Brick Conservation Treatment Terra Cotta Conservation Treatment Fiance Block Conservation Treatment Conservation Treatment for Period Concrete Unit Masonry Conservation Treatment for Period Adobe Unit Masonry Conservation Treatment for Period Stone Masonry Conservation Treatment for Period Stone Masonry Common Work Results for Masonry Selective Demolition for Masonry Masonry Mortaring Chemical-Resistant Masonry Mortaring Epoxy Masonry Mortaring Surface Bonding Masonry Mortaring Engineered Masonry Mortaring Refractory Masonry Mortaring Masonry Restoration Mortaring Masonry Grouting
04 03 01 04 03 01.13 04 03 05 04 03 05.13 04 03 05.16 04 03 05.19 04 03 21 04 03 21.19 04 03 21.21 04 03 21.23 04 03 22 04 03 24 04 03 43 04 05 00 04 05 05 04 05 13 04 05 13.16 04 05 13.23 04 05 13.23 04 05 13.29 04 05 13.91	Maintenance for Period Masonry Period Masonry Cleaning Common Work Results for Period Masonry Period Masonry Mortaring Period Masonry Grouting Period Masonry Anchorage and Reinforcing Conservation Treatment for Period Clay Unit Masonry Clay Brick Conservation Treatment Terra Cotta Conservation Treatment Fiance Block Conservation Treatment Conservation Treatment for Period Concrete Unit Masonry Conservation Treatment for Period Adobe Unit Masonry Conservation Treatment for Period Stone Masonry Conservation Treatment for Period Stone Masonry Common Work Results for Masonry Selective Demolition for Masonry Masonry Mortaring Chemical-Resistant Masonry Mortaring Epoxy Masonry Mortaring Surface Bonding Masonry Mortaring Engineered Masonry Mortaring Refractory Masonry Mortaring Masonry Restoration Mortaring

04 05 19 04 05 19.13 04 05 19.16 04 05 19.26 04 05 19.29 04 05 21 04 05 23 04 05 23.13 04 05 23.16 04 05 23.19 04 06 00 04 06 20	Masonry Anchorage and Reinforcing Continuous Joint Reinforcing Masonry Anchors Masonry Reinforcing Bars Stone Anchors Masonry Strengthening Masonry Accessories Masonry Control and Expansion Joints Masonry Embedded Flashing Masonry Cavity Drainage, Weepholes, and Vents Schedules for Masonry Schedules for Unit Masonry
04 06 20.13	Masonry Unit Schedule
04 06 40 04 06 50	Schedules for Stone Assemblies Schedules for Refractory Masonry
04 06 60	Schedules for Corrosion-Resistant Masonry
04 06 70	Schedules for Manufactured Masonry
04 08 00	Commissioning of Masonry
04 20 00	Unit Masonry
04 21 00	Clay Unit Masonry
04 21 13 04 21 13.13	Brick Masonry Brick Veneer Masonry
04 21 13.23	Surface-Bonded Brick Masonry
04 21 16	Ceramic Glazed Clay Masonry
04 21 19	Clay Tile Masonry
04 21 23	Structural Clay Tile Masonry
04 21 26 04 21 29	Glazed Structural Clay Tile Masonry Terra Cotta Masonry
04 22 00	Concrete Unit Masonry
04 22 00.13	Concrete Unit Veneer Masonry
04 22 00.16	Surface-Bonded Concrete Unit Masonry
04 22 19	Insulated Concrete Unit Masonry
04 22 23	Architectural Concrete Unit Masonry
04 22 23.13 04 22 23.16	Exposed Aggregate Concrete Unit Masonry Fluted Concrete Unit Masonry
04 22 23.19	Molded-Face Concrete Unit Masonry
04 22 23.23	Prefaced Concrete Unit Masonry
04 22 23.26	Sound-Absorbing Concrete Unit Masonry
04 22 23.29 04 22 26	Split-Face Concrete Unit Masonry Autoclaved Aerated Concrete Unit Masonry
04 22 33	Interlocking Concrete Unit Masonry
04 23 00	Glass Unit Masonry
04 23 13	Vertical Glass Unit Masonry
04 23 16	Glass Unit Masonry Floors
04 23 19	Glass Unit Masonry Skylights
04 24 00	Adobe Unit Masonry
04 24 13	Site-Cast Adobe Unit Masonry
04 24 16	Manufactured Adobe Unit Masonry
04 25 00	Unit Masonry Panels
04 25 13	Metal-Supported Unit Masonry Panels

04 26 00	Single-Wythe Unit Masonry
04 26 13	Masonry Veneer
04 27 00	Multiple-Wythe Unit Masonry
04 27 13	Composite Unit Masonry
04 27 23	Cavity Wall Unit Masonry
04 28 00	Concrete Form Masonry Units
04 28 13 04 28 23	Dry-Stacked, Concrete-Filled Masonry Units Mortar-Set, Concrete-Filled Masonry Units
04 29 00	
	Engineered Unit Masonry
04 40 00	Stone Assemblies
04 41 00	Dry-Placed Stone
04 42 00	Exterior Stone Cladding
04 42 13	Masonry-Supported Stone Cladding
04 42 16	Steel-Stud-Supported Stone Cladding
04 42 19	Strongback-Frame-Supported Stone Cladding
04 42 23	Truss-Supported Stone Cladding
04 42 26 04 42 43	Grid-System-Supported Stone Cladding Stone Panels for Curtain Walls
04 43 00	Stone Masonry
04 43 13	Stone Masonry Veneer
04 43 13.13	Anchored Stone Masonry Veneer
04 43 13.16	Adhered Stone Masonry Veneer
04 43 16	Stone Fabrications
04 50 00	Refractory Masonry
04 50 00 04 51 00	Refractory Masonry Flue Liner Masonry
04 51 00	Flue Liner Masonry
04 51 00 04 52 00	Flue Liner Masonry Combustion Chamber Masonry Castable Refractory Masonry
04 51 00 04 52 00 04 53 00 04 54 00	Flue Liner Masonry Combustion Chamber Masonry Castable Refractory Masonry Refractory Brick Masonry
04 51 00 04 52 00 04 53 00	Flue Liner Masonry Combustion Chamber Masonry Castable Refractory Masonry
04 51 00 04 52 00 04 53 00 04 54 00 04 57 00	Flue Liner Masonry Combustion Chamber Masonry Castable Refractory Masonry Refractory Brick Masonry Masonry Fireplaces Modular Masonry Fireplaces
04 51 00 04 52 00 04 53 00 04 54 00 04 57 00 04 57 33	Flue Liner Masonry Combustion Chamber Masonry Castable Refractory Masonry Refractory Brick Masonry Masonry Fireplaces Modular Masonry Fireplaces Corrosion-Resistant Masonry
04 51 00 04 52 00 04 53 00 04 54 00 04 57 00 04 57 33 04 60 00	Flue Liner Masonry Combustion Chamber Masonry Castable Refractory Masonry Refractory Brick Masonry Masonry Fireplaces Modular Masonry Fireplaces
04 51 00 04 52 00 04 53 00 04 54 00 04 57 00 04 57 33 04 60 00 04 61 00 04 62 00	Flue Liner Masonry Combustion Chamber Masonry Castable Refractory Masonry Refractory Brick Masonry Masonry Fireplaces Modular Masonry Fireplaces Corrosion-Resistant Masonry Chemical-Resistant Brick Masonry Vitrified Clay Liner Plate
04 51 00 04 52 00 04 53 00 04 54 00 04 57 00 04 57 33 04 60 00 04 61 00 04 62 00 04 70 00	Flue Liner Masonry Combustion Chamber Masonry Castable Refractory Masonry Refractory Brick Masonry Masonry Fireplaces Modular Masonry Fireplaces Corrosion-Resistant Masonry Chemical-Resistant Brick Masonry Vitrified Clay Liner Plate Manufactured Masonry
04 51 00 04 52 00 04 53 00 04 54 00 04 57 00 04 57 33 04 60 00 04 61 00 04 62 00 04 70 00 04 71 00	Flue Liner Masonry Combustion Chamber Masonry Castable Refractory Masonry Refractory Brick Masonry Masonry Fireplaces Modular Masonry Fireplaces Corrosion-Resistant Masonry Chemical-Resistant Brick Masonry Vitrified Clay Liner Plate Manufactured Masonry Manufactured Brick Masonry
04 51 00 04 52 00 04 53 00 04 54 00 04 57 00 04 57 33 04 60 00 04 61 00 04 62 00 04 70 00 04 71 00 04 71 13	Flue Liner Masonry Combustion Chamber Masonry Castable Refractory Masonry Refractory Brick Masonry Masonry Fireplaces Modular Masonry Fireplaces Corrosion-Resistant Masonry Chemical-Resistant Brick Masonry Vitrified Clay Liner Plate Manufactured Masonry Manufactured Brick Masonry Calcium Silicate Manufactured Brick Masonry
04 51 00 04 52 00 04 53 00 04 54 00 04 57 00 04 57 33 04 60 00 04 61 00 04 62 00 04 71 00 04 71 13 04 72 00	Flue Liner Masonry Combustion Chamber Masonry Castable Refractory Masonry Refractory Brick Masonry Masonry Fireplaces Modular Masonry Fireplaces Corrosion-Resistant Masonry Chemical-Resistant Brick Masonry Vitrified Clay Liner Plate Manufactured Masonry Manufactured Brick Masonry Calcium Silicate Manufactured Brick Masonry Cast Stone Masonry
04 51 00 04 52 00 04 53 00 04 54 00 04 57 00 04 57 33 04 60 00 04 61 00 04 62 00 04 70 00 04 71 00 04 71 13 04 72 00 04 73 00	Flue Liner Masonry Combustion Chamber Masonry Castable Refractory Masonry Refractory Brick Masonry Masonry Fireplaces Modular Masonry Fireplaces Corrosion-Resistant Masonry Chemical-Resistant Brick Masonry Vitrified Clay Liner Plate Manufactured Masonry Manufactured Brick Masonry Calcium Silicate Manufactured Brick Masonry Cast Stone Masonry Manufactured Stone Masonry
04 51 00 04 52 00 04 53 00 04 54 00 04 57 00 04 57 33 04 60 00 04 61 00 04 62 00 04 71 00 04 71 13 04 72 00 04 73 13	Flue Liner Masonry Combustion Chamber Masonry Castable Refractory Masonry Refractory Brick Masonry Masonry Fireplaces Modular Masonry Fireplaces Corrosion-Resistant Masonry Chemical-Resistant Brick Masonry Vitrified Clay Liner Plate Manufactured Masonry Manufactured Brick Masonry Calcium Silicate Manufactured Brick Masonry Cast Stone Masonry Manufactured Stone Masonry Calcium Silicate Manufactured Stone Masonry
04 51 00 04 52 00 04 53 00 04 54 00 04 57 00 04 57 33 04 60 00 04 61 00 04 62 00 04 70 00 04 71 00 04 71 13 04 72 00 04 73 13 05 00 00	Flue Liner Masonry Combustion Chamber Masonry Castable Refractory Masonry Refractory Brick Masonry Masonry Fireplaces Modular Masonry Fireplaces Corrosion-Resistant Masonry Chemical-Resistant Brick Masonry Vitrified Clay Liner Plate Manufactured Masonry Manufactured Brick Masonry Calcium Silicate Manufactured Brick Masonry Cast Stone Masonry Manufactured Stone Masonry Calcium Silicate Manufactured Stone Masonry Calcium Silicate Manufactured Stone Masonry Metals
04 51 00 04 52 00 04 53 00 04 54 00 04 57 00 04 57 33 04 60 00 04 61 00 04 62 00 04 71 00 04 71 13 04 72 00 04 73 13 05 00 00 05 01 00	Flue Liner Masonry Combustion Chamber Masonry Castable Refractory Masonry Refractory Brick Masonry Masonry Fireplaces Modular Masonry Fireplaces Corrosion-Resistant Masonry Chemical-Resistant Brick Masonry Vitrified Clay Liner Plate Manufactured Masonry Calcium Silicate Manufactured Brick Masonry Cast Stone Masonry Manufactured Stone Masonry Calcium Silicate Manufactured Stone Masonry Manufactured Stone Masonry Calcium Silicate Manufactured Stone Masonry Metals Maintenance of Metals
04 51 00 04 52 00 04 53 00 04 54 00 04 57 00 04 57 33 04 60 00 04 61 00 04 62 00 04 70 00 04 71 00 04 71 13 04 72 00 04 73 13 05 00 00	Flue Liner Masonry Combustion Chamber Masonry Castable Refractory Masonry Refractory Brick Masonry Masonry Fireplaces Modular Masonry Fireplaces Corrosion-Resistant Masonry Chemical-Resistant Brick Masonry Vitrified Clay Liner Plate Manufactured Masonry Manufactured Brick Masonry Calcium Silicate Manufactured Brick Masonry Cast Stone Masonry Manufactured Stone Masonry Calcium Silicate Manufactured Stone Masonry Calcium Silicate Manufactured Stone Masonry Metals

	05 01 30	Maintenance of Metal Decking
	05 01 40	Maintenance of Cold-Formed Metal Framing
	05 01 50	Maintenance of Metal Fabrications
	05 01 70	Maintenance of Decorative Metal
	05 01 70.91	Historic Treatment of Decorative Metal
05	03 00	Conservation Treatment for Period Metals
	05 03 12	Conservation Treatment for Period Structural Steel
	05 03 12.13	Conservation Treatment for Period Architecturally Exposed Steel
	05 03 12.23	Conservation Treatment for Period Structural Steel for Buildings
	05 03 51	Conservation Treatment for Period Metal Stairs
	05 03 58	Conservation Treatment for Period Column Covers
	05 03 70	Conservation Treatment for Period Decorative Metal
	05 03 71	Conservation Treatment for Period Decorative Metal Stairs
	05 03 73	Conservation Treatment for Period Decorative Metal Railings
	05 03 75	Conservation Treatment for Period Decorative Formed Metal
	05 03 76	Conservation Treatment for Period Decorative Forged Metal
05	05 00	Common Work Results for Metals
	05 05 05	Selective Demolition for Metals
	05 05 13	Shop-Applied Coatings for Metal
	05 05 19	Post-Installed Concrete Anchors
	05 05 23	Metal Fastenings
	05 05 53	Security Metal Fastenings
05	06 00	Schedules for Metals
	05 06 10	Schedules for Structural Metal Framing
	05 06 10.13	Steel Column Schedule
	05 06 10.16	Steel Beam Schedule
	05 06 20	Schedules for Metal Joists
	05 06 20.13	Steel Joist Schedule
	05 06 30	Schedules for Metal Decking
	05 06 40	Schedules for Cold-Formed Metal Framing
	05 06 50	Schedules for Metal Fabrications
	05 06 70	Schedules for Decorative Metal
05	08 00	Commissioning of Metals
05	10 00	Structural Metal Framing
05	12 00	Structural Steel Framing
	05 12 13	Architecturally-Exposed Structural Steel Framing
	05 12 16	Fabricated Fireproofed Steel Columns
	05 12 19	Buckling Restrained Braces
	05 12 23	Structural Steel for Buildings
	05 12 33	Structural Steel for Bridges
05	13 00	Structural Stainless-Steel Framing
	14 00	Structural Aluminum Framing
UU	05 14 13	Architecturally-Exposed Structural Aluminum Framing
ΛE		· · · · ·
UÜ	15 00	Wire Rope Assemblies
	05 15 13 05 15 16	Aluminum Wire Rope Assemblies
	05 15 16 05 15 10	Steel Wire Rope Assemblies
٥٢	05 15 19	Stainless-Steel Wire Rope Assemblies
บอ	16 00	Structural Cabling

05 16 13 05 16 33 05 17 00 05 19 00 05 19 13 05 19 19 05 20 00 05 21 00 05 21 13 05 21 16 05 21 19 05 21 23 05 25 00	Cable Bow Truss Assemblies Bridge Cabling Structural Rod Assemblies Tension Rod and Cable Truss Assemblies Façade Support Truss Assemblies Canopy Support Truss Assemblies Metal Joists Steel Joist Framing Deep Longspan Steel Joist Framing Longspan Steel Joist Framing Open Web Steel Joist Framing Steel Joist Girder Framing Aluminum Joist Framing
05 30 00	Metal Decking
05 31 00 05 31 13 05 31 23 05 31 33 05 33 00 05 33 13 05 33 23 05 34 00	Steel Decking Steel Floor Decking Steel Roof Decking Steel Form Decking Aluminum Decking Aluminum Floor Decking Aluminum Roof Decking Acoustical Metal Decking
05 35 00	Raceway Decking Assemblies
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05 36 00	Composite Metal Decking
05 36 00 05 36 13	Composite Metal Decking Composite Steel Plate and Elastomer Decking
05 36 00 05 36 13 05 40 00	Composite Metal Decking Composite Steel Plate and Elastomer Decking Cold-Formed Metal Framing
05 36 00 05 36 13 05 40 00 05 41 00	Composite Metal Decking Composite Steel Plate and Elastomer Decking Cold-Formed Metal Framing Structural Metal Stud Framing
05 36 00 05 36 13 05 40 00 05 41 00 05 42 00	Composite Metal Decking Composite Steel Plate and Elastomer Decking Cold-Formed Metal Framing Structural Metal Stud Framing Cold-Formed Metal Joist Framing
05 36 00 05 36 13 05 40 00 05 41 00	Composite Metal Decking Composite Steel Plate and Elastomer Decking Cold-Formed Metal Framing Structural Metal Stud Framing
05 36 00 05 36 13 05 40 00 05 41 00 05 42 00 05 42 13	Composite Metal Decking Composite Steel Plate and Elastomer Decking Cold-Formed Metal Framing Structural Metal Stud Framing Cold-Formed Metal Joist Framing Cold-Formed Metal Floor Joist Framing
05 36 00 05 36 13 05 40 00 05 41 00 05 42 00 05 42 13 05 42 23 05 43 00 05 44 00	Composite Metal Decking Composite Steel Plate and Elastomer Decking Cold-Formed Metal Framing Structural Metal Stud Framing Cold-Formed Metal Joist Framing Cold-Formed Metal Floor Joist Framing Cold-Formed Metal Roof Joist Framing Slotted Channel Framing Cold-Formed Metal Trusses
05 36 00 05 36 13 05 40 00 05 41 00 05 42 00 05 42 13 05 42 23 05 43 00 05 44 13	Composite Metal Decking Composite Steel Plate and Elastomer Decking Cold-Formed Metal Framing Structural Metal Stud Framing Cold-Formed Metal Joist Framing Cold-Formed Metal Floor Joist Framing Cold-Formed Metal Roof Joist Framing Slotted Channel Framing Cold-Formed Metal Trusses Cold-Formed Metal Roof Trusses
05 36 00 05 36 13 05 40 00 05 41 00 05 42 00 05 42 13 05 42 23 05 43 00 05 44 00 05 44 13 05 45 00	Composite Metal Decking Composite Steel Plate and Elastomer Decking Cold-Formed Metal Framing Structural Metal Stud Framing Cold-Formed Metal Joist Framing Cold-Formed Metal Floor Joist Framing Cold-Formed Metal Roof Joist Framing Slotted Channel Framing Cold-Formed Metal Trusses Cold-Formed Metal Roof Trusses Metal Support Assemblies
05 36 00 05 36 13 05 40 00 05 41 00 05 42 00 05 42 13 05 42 23 05 43 00 05 44 13	Composite Metal Decking Composite Steel Plate and Elastomer Decking Cold-Formed Metal Framing Structural Metal Stud Framing Cold-Formed Metal Joist Framing Cold-Formed Metal Floor Joist Framing Cold-Formed Metal Roof Joist Framing Slotted Channel Framing Cold-Formed Metal Trusses Cold-Formed Metal Roof Trusses Metal Support Assemblies Mechanical Metal Supports
05 36 00 05 36 13 05 40 00 05 41 00 05 42 00 05 42 13 05 42 23 05 43 00 05 44 13 05 45 13 05 45 16 05 45 19	Composite Metal Decking Composite Steel Plate and Elastomer Decking Cold-Formed Metal Framing Structural Metal Stud Framing Cold-Formed Metal Joist Framing Cold-Formed Metal Floor Joist Framing Cold-Formed Metal Roof Joist Framing Slotted Channel Framing Cold-Formed Metal Trusses Cold-Formed Metal Roof Trusses Metal Support Assemblies Mechanical Metal Supports Electrical Metal Supports Communications Metal Supports
05 36 00 05 36 13 05 40 00 05 41 00 05 42 00 05 42 13 05 42 23 05 43 00 05 44 13 05 45 13 05 45 16 05 45 19 05 45 23	Composite Metal Decking Composite Steel Plate and Elastomer Decking Cold-Formed Metal Framing Structural Metal Stud Framing Cold-Formed Metal Joist Framing Cold-Formed Metal Floor Joist Framing Cold-Formed Metal Roof Joist Framing Slotted Channel Framing Cold-Formed Metal Trusses Cold-Formed Metal Roof Trusses Metal Support Assemblies Mechanical Metal Supports Electrical Metal Supports Communications Metal Supports Healthcare Metal Supports
05 36 00 05 36 13 05 40 00 05 41 00 05 42 00 05 42 13 05 42 23 05 43 00 05 44 00 05 44 13 05 45 13 05 45 16 05 45 19 05 45 23 05 50 00	Composite Metal Decking Composite Steel Plate and Elastomer Decking Cold-Formed Metal Framing Structural Metal Stud Framing Cold-Formed Metal Joist Framing Cold-Formed Metal Floor Joist Framing Cold-Formed Metal Roof Joist Framing Slotted Channel Framing Cold-Formed Metal Trusses Cold-Formed Metal Roof Trusses Metal Support Assemblies Mechanical Metal Supports Electrical Metal Supports Communications Metal Supports Healthcare Metal Supports Metal Fabrications Metal Fabrications
05 36 00 05 36 13 05 40 00 05 41 00 05 42 00 05 42 13 05 42 23 05 43 00 05 44 13 05 45 10 05 45 16 05 45 19 05 45 23 05 50 00 05 51 00	Composite Metal Decking Composite Steel Plate and Elastomer Decking Cold-Formed Metal Framing Structural Metal Stud Framing Cold-Formed Metal Joist Framing Cold-Formed Metal Floor Joist Framing Cold-Formed Metal Roof Joist Framing Slotted Channel Framing Cold-Formed Metal Trusses Cold-Formed Metal Roof Trusses Metal Support Assemblies Mechanical Metal Supports Electrical Metal Supports Communications Metal Supports Healthcare Metal Supports Metal Fabrications Metal Stairs
05 36 00 05 36 13 05 40 00 05 41 00 05 42 00 05 42 13 05 42 23 05 43 00 05 44 13 05 45 13 05 45 16 05 45 19 05 45 23 05 50 00 05 51 00 05 51 13	Composite Metal Decking Composite Steel Plate and Elastomer Decking Cold-Formed Metal Framing Structural Metal Stud Framing Cold-Formed Metal Joist Framing Cold-Formed Metal Floor Joist Framing Cold-Formed Metal Roof Joist Framing Slotted Channel Framing Cold-Formed Metal Trusses Cold-Formed Metal Trusses Cold-Formed Metal Roof Trusses Metal Support Assemblies Mechanical Metal Supports Electrical Metal Supports Communications Metal Supports Healthcare Metal Supports Metal Fabrications Metal Stairs Metal Pan Stairs
05 36 00 05 36 13 05 40 00 05 41 00 05 42 00 05 42 13 05 42 23 05 43 00 05 44 13 05 45 10 05 45 16 05 45 19 05 45 23 05 50 00 05 51 00	Composite Metal Decking Composite Steel Plate and Elastomer Decking Cold-Formed Metal Framing Structural Metal Stud Framing Cold-Formed Metal Joist Framing Cold-Formed Metal Floor Joist Framing Cold-Formed Metal Roof Joist Framing Slotted Channel Framing Cold-Formed Metal Trusses Cold-Formed Metal Roof Trusses Metal Support Assemblies Mechanical Metal Supports Electrical Metal Supports Communications Metal Supports Healthcare Metal Supports Metal Fabrications Metal Stairs

05 51 23	Metal Fire Escapes
05 51 33	Metal Ladders
05 51 33.13 05 51 33.16	Vertical Metal Ladders Inclined Metal Ladders
05 51 33.10	Alternating Tread Ladders
05 51 36	Metal Walkways
05 51 36.13	Metal Catwalks
05 51 36.16	Metal Ramps
05 51 36.19	Metal Platforms
05 52 00	Metal Railings
05 52 13	Pipe and Tube Railings
05 53 00	Metal Gratings
05 53 13	Bar Gratings
05 53 16 05 53 19	Plank Gratings Expanded Metal Gratings
	Metal Floor Plates
05 54 00	
05 55 00	Metal Stair Treads and Nosings
05 55 13 05 55 16	Metal Stair Treads
05 56 00	Metal Castings
	Metal Castings
05 58 00	Formed Metal Fabrications Column Covers
05 58 13 05 58 16	Formed Metal Enclosures
05 58 19	Heating/Cooling Unit Covers
05 58 23	Formed Metal Guards
05 59 00	Metal Specialties
05 59 13	Metal Balconies
05 59 63	Detention Enclosures
05 70 00	Decorative Metal
05 71 00	Decorative Metal Stairs
05 71 13	Fabricated Metal Spiral Stairs
05 73 00	Decorative Metal Railings
05 73 13	Glazed Decorative Metal Railings
05 73 16	Wire Rope Decorative Metal Railings
05 74 00	Decorative Metal Castings
05 75 00	Decorative Formed Metal
05 76 00	Decorative Forged Metal
05 77 00	Decorative Extruded Metal
06 00 00	Wood, Plastics, and Composites
06 01 00	Maintenance of Wood, Plastics, and Composites
06 01 10	Maintenance of Rough Carpentry
06 01 10.71	Rough Carpentry Rehabilitation
06 01 10.91	Rough Carpentry Restoration
06 01 10.92	Rough Carpentry Preservation
06 01 20 06 01 20.71	Maintenance of Finish Carpentry Finish Carpentry Rehabilitation
00 01 20.71	ι ιιιιοπ φαιρεπιτή πεπανιπαιίθη

	06 01 20.91	Finish Carpentry Restoration
	06 01 20.92	Finish Carpentry Preservation
	06 01 40	Maintenance of Architectural Woodwork
	06 01 40.51	Architectural Woodwork Cleaning
	06 01 40.61	Architectural Woodwork Refinishing
	06 01 40.91	Architectural Woodwork Restoration
	06 01 50	Maintenance of Structural Plastics
	06 01 60	Maintenance of Plastic Fabrications
	06 01 60.51	Plastic Cleaning
	06 01 60.71	Plastic Rehabilitation
	06 01 60.91	Plastic Restoration
	06 01 60.92	Plastic Preservation
	06 01 70	Maintenance of Structural Composites
	06 01 80	Maintenance of Composite Assemblies
	06 01 80.51	Composite Cleaning
	06 01 80.71	Composite Rehabilitation
	06 01 80.91	Composite Restoration
	06 01 80.92	Composite Preservation
06	03 00	Conservation Treatment for Period Wood
•	06 03 01	Maintenance for Period Wood
	06 03 01.31	Period Wood Storage and Protection
	06 03 05	Common Work Results for Period Wood
	06 03 05.73	Long-term Period Wood Treatment
	06 03 05.74	Eradication of Insects in Period Wood
	06 03 05.75	Antiseptic Treatment of Period Wood
	06 03 13	Conservation Treatment of Period Log Construction
	06 03 13.23	Conservation Treatment for Period Heavy Timber
	06 03 20	Conservation Treatment for Period Finish Carpentry
	06 03 20.13	Period Exterior Finish Carpentry
	06 03 20.13	Period Interior Finish Carpentry
	06 03 40	Conservation Treatment for Period Architectural Woodwork
	06 03 40.13	Period Exterior Architectural Woodwork
	06 03 40.13	Period Interior Architectural Woodwork
ΛE	05 00	Common Work Results for Wood, Plastics, and
UU	03 00	_
		Composites
	06 05 05	Selective Demolition for Wood, Plastics, and Composites
	06 05 23	Wood, Plastic, and Composite Fastenings
	06 05 73	Wood Treatment
	06 05 73.13	Fire-Retardant Wood Treatment
	06 05 73.33	Preservative Wood Treatment
	06 05 73.91	Long-Term Wood Treatment
	06 05 73.93	Eradication of Insects in Wood
	06 05 73.96	Antiseptic Treatment of Wood
	06 05 83	Shop-Applied Wood Coatings
06	06 00	Schedules for Wood, Plastics, and Composites
	06 06 10	Schedules for Rough Carpentry
	06 06 10.13	Nailing Schedule
	06 06 10.16	Wood Beam Schedule
	06 06 10.19	Plywood Shear Wall Schedule
	06 06 10.23	Plywood Web Joist Schedule
	06 06 10.26	Wood Truss Schedule
	06 06 20	Schedules for Finish Carpentry
	06 06 40	Schedules for Architectural Woodwork

	06 06 50	Schedules for Structural Plastics
	06 06 60	Schedules for Plastic Fabrications
	06 06 70	Schedules for Structural Composites
	06 06 80	Schedules for Composite Assemblies
06	08 00	Commissioning of Wood, Plastics, and Composites
06	6 10 00	Rough Carpentry
	06 10 53	Miscellaneous Rough Carpentry
	06 10 63	Exterior Rough Carpentry
06	11 00	Wood Framing
	06 11 13	Engineered Wood Products
	06 11 16	Mechanically Graded Lumber
06	12 00	Structural Panels
	06 12 13	Cementitious Reinforced Panels
	06 12 16	Stressed Skin Panels
06	13 00	Heavy Timber Construction
00	06 13 13	Log Construction
	06 13 13.91	Period Horizontal Log Work
	06 13 16	Pole Construction
	06 13 23	Heavy Timber Framing
	06 13 26	Heavy Timber Trusses
	06 13 33	Heavy Timber Pier Construction
06	14 00	Treated Wood Foundations
	15 00	Wood Decking
UU	06 15 13	Wood Floor Decking
	06 15 13.91	Carvel Planking
	06 15 16	Wood Roof Decking
	06 15 19	Timber Decking
	06 15 23	Laminated Wood Decking
	06 15 33	Wood Patio Decking
06	16 00	Sheathing
	06 16 13	Insulating Sheathing
	06 16 23	Subflooring
	06 16 26	Underlayment
	06 16 33	Wood Board Sheathing
	06 16 36	Wood Panel Product Sheathing
	06 16 43 06 16 53	Gypsum Sheathing Moisture-Resistant Sheathing Board
	06 16 63	Cementitious Sheathing
ΛG	17 00	Shop-Fabricated Structural Wood
UU	06 17 13	Laminated Veneer Lumber
	06 17 13	Cross-Laminated Timber
	06 17 19	Parallel Strand Lumber
	06 17 33	Wood I-Joists
	06 17 36	Metal-Web Wood Joists
	06 17 43	Rim Boards
	06 17 53	Shop-Fabricated Wood Trusses
06	18 00	Glued-Laminated Construction
-	06 18 13	Glued-Laminated Beams
	33 13 13	Grada Earlinated Dodrile

06 18 16	Glued-Laminated Columns
06 20 00	Finish Carpentry
06 20 13	Exterior Finish Carpentry
06 20 23	Interior Finish Carpentry
06 22 00	Millwork
06 22 13	Standard Pattern Wood Trim
06 25 00	Prefinished Paneling
06 25 13	Prefinished Hardboard Paneling
06 25 16	Prefinished Plywood Paneling
06 26 00	Board Paneling
06 26 13	Profile Board Paneling
06 40 00	Architectural Woodwork
06 40 13 06 40 23	Exterior Architectural Woodwork Interior Architectural Woodwork
06 41 00	Architectural Wood Casework
06 41 13 06 41 16	Wood-Veneer-Faced Architectural Cabinets Plastic-Laminate-Clad Architectural Cabinets
06 41 18	Cabinet and Drawer Hardware
06 42 00	Wood Paneling
06 42 13	Wood Board Paneling
06 42 14	Stile and Rail Wood Paneling
06 42 16	Flush Wood Paneling
06 42 19	Plastic-Laminate-Faced Wood Paneling
06 43 00	Wood Stairs and Railings
06 43 13	Wood Stairs
	Wood Railings
06 43 16	Wood Rainingo
06 43 16 06 44 00	Ornamental Woodwork
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06 44 00	Ornamental Woodwork
06 44 00 06 44 13 06 44 16 06 44 19	Ornamental Woodwork Wood Turnings Wood Pilasters Wood Grilles
06 44 00 06 44 13 06 44 16 06 44 19 06 44 23	Ornamental Woodwork Wood Turnings Wood Pilasters Wood Grilles Wood Corbels
06 44 00 06 44 13 06 44 16 06 44 19 06 44 23 06 44 26	Ornamental Woodwork Wood Turnings Wood Pilasters Wood Grilles Wood Corbels Wood Cupolas
06 44 00 06 44 13 06 44 16 06 44 19 06 44 23 06 44 26 06 44 29	Ornamental Woodwork Wood Turnings Wood Pilasters Wood Grilles Wood Corbels Wood Cupolas Wood Finials
06 44 00 06 44 13 06 44 16 06 44 19 06 44 23 06 44 26 06 44 29 06 44 33	Ornamental Woodwork Wood Turnings Wood Pilasters Wood Grilles Wood Corbels Wood Cupolas Wood Finials Wood Mantels
06 44 00 06 44 13 06 44 16 06 44 19 06 44 23 06 44 26 06 44 29 06 44 33 06 44 36	Ornamental Woodwork Wood Turnings Wood Pilasters Wood Grilles Wood Corbels Wood Cupolas Wood Finials Wood Mantels Wood Pediment Heads
06 44 00 06 44 13 06 44 16 06 44 19 06 44 23 06 44 26 06 44 29 06 44 33 06 44 36 06 44 39	Ornamental Woodwork Wood Turnings Wood Pilasters Wood Grilles Wood Corbels Wood Cupolas Wood Finials Wood Mantels Wood Pediment Heads Wood Posts and Columns
06 44 00 06 44 13 06 44 16 06 44 19 06 44 23 06 44 26 06 44 29 06 44 33 06 44 36 06 44 39 06 46 00	Ornamental Woodwork Wood Turnings Wood Pilasters Wood Grilles Wood Corbels Wood Cupolas Wood Finials Wood Mantels Wood Pediment Heads Wood Posts and Columns Wood Trim
06 44 00 06 44 13 06 44 16 06 44 19 06 44 23 06 44 26 06 44 29 06 44 33 06 44 36 06 44 39 06 46 00 06 46 13	Ornamental Woodwork Wood Turnings Wood Pilasters Wood Grilles Wood Corbels Wood Cupolas Wood Finials Wood Mantels Wood Pediment Heads Wood Posts and Columns Wood Trim Wood Door and Window Casings
06 44 00 06 44 13 06 44 16 06 44 19 06 44 23 06 44 26 06 44 29 06 44 33 06 44 36 06 44 39 06 46 13 06 46 13	Ornamental Woodwork Wood Turnings Wood Pilasters Wood Grilles Wood Corbels Wood Cupolas Wood Finials Wood Mantels Wood Pediment Heads Wood Posts and Columns Wood Trim Wood Door and Window Casings Wood Aprons
06 44 00 06 44 13 06 44 16 06 44 19 06 44 23 06 44 26 06 44 29 06 44 33 06 44 36 06 44 39 06 46 13 06 46 16 06 46 19	Ornamental Woodwork Wood Turnings Wood Pilasters Wood Grilles Wood Corbels Wood Cupolas Wood Finials Wood Mantels Wood Pediment Heads Wood Posts and Columns Wood Trim Wood Door and Window Casings Wood Aprons Wood Base and Shoe Moldings
06 44 00 06 44 13 06 44 16 06 44 19 06 44 23 06 44 26 06 44 29 06 44 33 06 44 36 06 44 39 06 46 13 06 46 13 06 46 19 06 46 23	Ornamental Woodwork Wood Turnings Wood Pilasters Wood Grilles Wood Corbels Wood Cupolas Wood Finials Wood Mantels Wood Pediment Heads Wood Posts and Columns Wood Trim Wood Door and Window Casings Wood Aprons Wood Base and Shoe Moldings Wood Chair Rails
06 44 00 06 44 13 06 44 16 06 44 19 06 44 23 06 44 26 06 44 29 06 44 33 06 44 36 06 44 39 06 46 13 06 46 16 06 46 19	Ornamental Woodwork Wood Turnings Wood Pilasters Wood Grilles Wood Corbels Wood Cupolas Wood Finials Wood Mantels Wood Pediment Heads Wood Posts and Columns Wood Trim Wood Door and Window Casings Wood Aprons Wood Base and Shoe Moldings
06 44 00 06 44 13 06 44 19 06 44 23 06 44 26 06 44 29 06 44 33 06 44 36 06 44 39 06 46 13 06 46 13 06 46 19 06 46 23 06 46 26	Ornamental Woodwork Wood Turnings Wood Pilasters Wood Grilles Wood Corbels Wood Cupolas Wood Finials Wood Mantels Wood Pediment Heads Wood Posts and Columns Wood Trim Wood Door and Window Casings Wood Aprons Wood Base and Shoe Moldings Wood Chair Rails Wood Cornices
06 44 00 06 44 13 06 44 19 06 44 23 06 44 26 06 44 29 06 44 33 06 44 36 06 44 39 06 46 13 06 46 13 06 46 19 06 46 23 06 46 29	Ornamental Woodwork Wood Turnings Wood Pilasters Wood Grilles Wood Corbels Wood Cupolas Wood Finials Wood Mantels Wood Pediment Heads Wood Posts and Columns Wood Trim Wood Door and Window Casings Wood Aprons Wood Base and Shoe Moldings Wood Cornices Wood Fasciae and Soffits
06 44 00 06 44 13 06 44 19 06 44 23 06 44 26 06 44 29 06 44 33 06 44 36 06 44 39 06 46 13 06 46 13 06 46 19 06 46 23 06 46 29 06 46 33	Ornamental Woodwork Wood Turnings Wood Pilasters Wood Grilles Wood Corbels Wood Cupolas Wood Finials Wood Mantels Wood Pediment Heads Wood Posts and Columns Wood Trim Wood Door and Window Casings Wood Aprons Wood Base and Shoe Moldings Wood Cornices Wood Fasciae and Soffits Wood Stops, Stools, and Sills

06 48 16	Interior Wood Door Frames
06 48 19	Ornamental Wood Frames
06 48 23	Stick-Built Wood Windows
06 48 26	Wood-Veneer Frames
06 49 00	Wood Screens and Shutters
06 49 13	Wood Screens
06 49 16	Wood Blinds
06 49 19	Wood Shutters
06 50 00	Structural Plastics
06 51 00	Structural Plastic Shapes and Plates
06 51 13	Plastic Lumber
06 52 00	Plastic Structural Assemblies
06 53 00	Plastic Decking
06 53 13	Solid Plastic Decking
06 60 00	Plastic Fabrications
06 61 00	Cast Polymer Fabrications
06 61 13	Simulated Stone Fabrications
06 61 16	Solid Surfacing Fabrications
06 63 00	Plastic Railings
06 64 00	Plastic Paneling
06 64 13	Plastic Lattice Paneling
06 65 00	Plastic Trim
06 66 00	Custom Ornamental Simulated Woodwork
06 70 00	Structural Composites
06 71 00	Structural Composite Shapes and Plates
06 71 13	Composite Lumber
06 72 00	Composite Structural Assemblies
06 72 13	Composite Joist Assemblies
06 72 23	Composite Stair Assemblies
06 73 00	Composite Decking
06 73 13	Composite Structural Decking
06 74 00	Composite Gratings
06 74 13	Fiberglass Reinforced Gratings
06 80 00	Composite Fabrications
06 81 00	Composite Railings
06 81 13	Glass-Fiber-Reinforced Plastic Railings
06 82 00	Composite Trim
06 83 00	Composite Paneling
06 83 13	Resin Composite Paneling
06 83 16	Fiberglass Reinforced Paneling
07 00 00	Thermal and Moisture Protection

07 01 00	Operation and Maintenance of Thermal and Moisture
	Protection
07 01 10	Maintenance of Dampproofing and Waterproofing
07 01 10.81	Waterproofing Replacement
07 01 20	Maintenance of Thermal Protection
07 01 30	Maintenance of Steep Slope Roofing
07 01 40	Maintenance of Roofing and Siding Panels
07 01 50	Maintenance of Membrane Roofing
07 01 50.13	Roof Moisture Survey
07 01 50.16	Roof Maintenance Program
07 01 50.19	Preparation for Re-Roofing
07 01 50.23	Roof Removal
07 01 50.61 07 01 50.81	Roof Re-Coating
07 01 50.81	Roof Replacement Roofing Restoration
07 01 30.91	Maintenance of Flashing and Sheet Metal
07 01 60.71	Flashing and Sheet Metal Rehabilitation
07 01 60.71	Flashing and Sheet Metal Restoration
07 01 60.92	Flashing and Sheet Metal Preservation
07 01 70	Operation and Maintenance of Roof Specialties and Accessories
07 01 80	Maintenance of Fire and Smoke Protection
07 01 90	Maintenance of Joint Protection
07 01 90.71	Joint Sealant Rehabilitation
07 01 90.81	Joint Sealant Replacement
07 03 00	Conservation Treatment for Period Roofing
07 03 00	
07 03 30.13	Conservation Treatment for Period Steep Slope Roofing Conservation Treatment for Period Canvas Roofing
07 03 30.13	Conservation Treatment for Period Board Roofing
07 03 30.10	Conservation Treatment for Period Shingles and Shakes
07 03 31.16	Conservation Treatment for Period Metal Shingles
07 03 31.16	Conservation Treatment for Period Slate Shingles
07 03 31.29	Conservation Treatment for Period Wood Shingles and Shakes
07 03 32	Conservation Treatment for Period Roof Tiles
07 03 32.13	Conservation Treatment for Period Clay Roof Tiles
07 03 32.16	Conservation Treatment for Period Concrete Roof Tiles
07 03 32.19	Conservation Treatment for Period Metal Roof Tiles
07 03 33	Conservation Treatment for Period Natural Roof Coverings
07 03 33.13	Conservation Treatment for Period Sod Roofing
07 03 40	Conservation Treatment for Period Roofing and Siding Panels
07 03 41	Conservative Treatment for Period Roof Panels
07 03 41.13	Conservation Treatment for Period Metal Roof Panels
07 03 41.23	Conservation Treatment for Period Wood Roof Panels
07 03 46	Conservation Treatment for Period Wood Siding
07 03 60	Conservation Treatment of Period Flashing and Sheet Metal
07 03 61	Conservation Treatment for Period Sheet Metal Roofing
07 03 61.13	Conservation Treatment for Period Standing Seam Sheet Metal Roofing
07 03 61.16	Conservation Treatment for Period Batten Seam Sheet Metal Roofing
07 03 61.19	Conservation Treatment for Period Flat Seam Sheet Metal Roofing
07 05 00	Common Work Results for Thermal and Moisture
	Protection
07 05 05	Selective Demolition for Thermal and Moisture Protection
07 05 03	Cladding Support Systems
07 00 40	Ciadania Capport Cystems

07 05 53 07 06 00 07 06 10 07 06 20 07 06 30 07 06 40 07 06 50 07 06 60 07 06 70 07 06 80 07 06 80.13 07 06 90 07 06 90.13	Fire and Smoke Assembly Identification Schedules for Thermal and Moisture Protection Schedules for Dampproofing and Waterproofing Schedules for Thermal Protection Schedules for Steep Slope Roofing Schedules for Roofing and Siding Panels Schedules for Membrane Roofing Schedules for Flashing and Sheet Metal Schedules for Roof Specialties and Accessories Schedules for Fire and Smoke Protection Fireproofing Schedule Firestopping Schedule Schedules for Joint Protection Joint Sealant Schedule
07 08 00	Commissioning of Thermal and Moisture Protection
07 10 00	Dampproofing and Waterproofing
07 11 00	Dampproofing
07 11 13 07 11 16	Bituminous Dampproofing Cementitious Dampproofing
07 11 10	Sheet Dampproofing
07 12 00	Built-Up Bituminous Waterproofing
07 12 13	Built-Up Asphalt Waterproofing
07 12 16	Built-Up Coal Tar Waterproofing
07 13 00	Sheet Waterproofing
07 13 13 07 13 26	Bituminous Sheet Waterproofing
07 13 20	Self-Adhering Sheet Waterproofing Modified Bituminous Sheet Waterproofing
07 13 53	Elastomeric Sheet Waterproofing
07 13 54	Thermoplastic Sheet Waterproofing
07 14 00	Fluid-Applied Waterproofing
07 14 13	Hot Fluid-Applied Rubberized Asphalt Waterproofing
07 14 14 07 14 16	Hot Fluid-Applied Polyurea Waterproofing Cold Fluid-Applied Waterproofing
07 15 00	Sheet Metal Waterproofing
07 15 13	Sheet Lead Waterproofing
07 16 00	Cementitious and Reactive Waterproofing
07 16 13	Polymer Modified Cement Waterproofing
07 16 16	Crystalline Waterproofing
07 16 19	Metal Oxide Waterproofing
07 17 00	Bentonite Waterproofing
07 17 13 07 17 16	Bentonite Panel Waterproofing Bentonite Composite Sheet Waterproofing
07 18 00	Traffic Coatings
07 18 13	Pedestrian Traffic Coatings
07 18 16	Vehicular Traffic Coatings
07 19 00	Water Repellents
07 19 13	Acrylic Water Repellents

07 19 16 07 19 19 07 19 23 07 19 26 07 19 29	Silane Water Repellents Silicone Water Repellents Siloxane Water Repellents Stearate Water Repellents Penetrating Polyester Water Repellents Thormal Protoction
07 20 00	Thermal Protection
07 21 00	Thermal Insulation
07 21 13 07 21 13.13	Board Insulation Foam Board Insulation
07 21 13.16	Fibrous Board Insulation
07 21 13.19	Mineral Board Insulation
07 21 16	Blanket Insulation
07 21 19 07 21 23	Foamed-In-Place Insulation
07 21 23 07 21 26	Loose-Fill Insulation Blown Insulation
07 21 20	Sprayed Insulation
07 21 53	Reflective Insulation
07 22 00	Roof and Deck Insulation
07 22 13	Asphaltic Perlite Concrete Deck
07 22 16	Roof Board Insulation
07 24 00	Exterior Insulation and Finish Systems
07 24 13	Polymer-Based Exterior Insulation and Finish System
07 24 16 07 24 19	Polymer-Modified Exterior Insulation and Finish System Water-Drainage Exterior Insulation and Finish System
07 24 19	Direct-Applied Finish Systems
07 25 00	Weather Barriers
07 26 00	Vapor Retarders
07 26 13	Above-Grade Vapor Retarders
07 26 16	Below-Grade Vapor Retarders
07 26 23	Below-Grade Gas Retarders
07 27 00	Air Barriers
07 27 13	Modified Bituminous Sheet Air Barriers
07 27 16	Sheet Metal Membrane Air Barriers
07 27 19 07 27 23	Plastic Sheet Air Barriers Board Product Air Barriers
U/ // /b	
07 27 26 07 27 36	Fluid-Applied Membrane Air Barriers Sprayed Foam Air Barrier
	Fluid-Applied Membrane Air Barriers Sprayed Foam Air Barrier
07 27 36	Fluid-Applied Membrane Air Barriers
07 27 36 07 30 00	Fluid-Applied Membrane Air Barriers Sprayed Foam Air Barrier Steep Slope Roofing Canvas Roofing
07 27 36 07 30 00 07 30 91	Fluid-Applied Membrane Air Barriers Sprayed Foam Air Barrier Steep Slope Roofing
07 27 36 07 30 00 07 30 91 07 31 00 07 31 13 07 31 13.13	Fluid-Applied Membrane Air Barriers Sprayed Foam Air Barrier Steep Slope Roofing Canvas Roofing Shingles and Shakes Asphalt Shingles Fiberglass-Reinforced Asphalt Shingles
07 27 36 07 30 00 07 30 91 07 31 00 07 31 13 07 31 13.13 07 31 16	Fluid-Applied Membrane Air Barriers Sprayed Foam Air Barrier Steep Slope Roofing Canvas Roofing Shingles and Shakes Asphalt Shingles Fiberglass-Reinforced Asphalt Shingles Metal Shingles
07 27 36 07 30 00 07 30 91 07 31 00 07 31 13 07 31 13.13 07 31 16 07 31 19	Fluid-Applied Membrane Air Barriers Sprayed Foam Air Barrier Steep Slope Roofing Canvas Roofing Shingles and Shakes Asphalt Shingles Fiberglass-Reinforced Asphalt Shingles Metal Shingles Mineral-Fiber Cement Shingles
07 27 36 07 30 00 07 30 91 07 31 00 07 31 13 07 31 13.13 07 31 16 07 31 19 07 31 23	Fluid-Applied Membrane Air Barriers Sprayed Foam Air Barrier Steep Slope Roofing Canvas Roofing Shingles and Shakes Asphalt Shingles Fiberglass-Reinforced Asphalt Shingles Metal Shingles Mineral-Fiber Cement Shingles Porcelain Enamel Shingles
07 27 36 07 30 00 07 30 91 07 31 00 07 31 13 07 31 13.13 07 31 16 07 31 19	Fluid-Applied Membrane Air Barriers Sprayed Foam Air Barrier Steep Slope Roofing Canvas Roofing Shingles and Shakes Asphalt Shingles Fiberglass-Reinforced Asphalt Shingles Metal Shingles Mineral-Fiber Cement Shingles

	07 31 29.16	Wood Shakes
	07 31 33	Composite Rubber Shingles
	07 31 53	Plastic Shakes
07	32 00	Roof Tiles
	07 32 13	Clay Roof Tiles
	07 32 14	Ceramic and Porcelain Roof Tiles
	07 32 16	Concrete Roof Tiles
	07 32 19	Metal Roof Tiles
	07 32 23	Mineral-Fiber Cement Roof Tiles
	07 32 26	Plastic Roof Tiles
	07 32 29	Rubber Tiles/Panels
07	33 00	Natural Roof Coverings
	07 33 13	Sod Roofing
	07 33 16	Thatched Roofing
	07 33 63	Vegetated Steep-Slope Roofing
07	40 00	Roofing and Siding Panels
	41 00	Roof Panels
01	07 41 13	Metal Roof Panels
	07 41 16	Insulated Metal Roof Panels
	07 41 10	Wood Roof Panels
	07 41 33	Plastic Roof Panels
	07 41 43	Composite Roof Panels
	07 41 63	Fabricated Roof Panel Assemblies
07	42 00	Wall Panels
0.	07 42 13	Metal Wall Panels
	07 42 13.13	Formed Metal Wall Panels
	07 42 13.16	Metal Plate Wall Panels
	07 42 13.19	Insulated Metal Wall Panels
	07 42 13.23	Metal Composite Material Wall Panels
	07 42 23	Wood Wall Panels
	07 42 26	Tile Wall Panels
	07 42 29	Terra Cotta Wall Panels
	07 42 33	Plastic Wall Panels
	07 42 43	Composite Wall Panels
	07 42 46	Cementitious Wall Panels
	07 42 63 07 42 93	Fabricated Wall Panel Assemblies Soffit Panels
07	44 00	Faced Panels
U1	07 44 13	Aggregate Coated Panels
	07 44 16	Porcelain Enameled Faced Panels
	07 44 19	Tile-Faced Panels
	07 44 23	Ceramic-Tile-Faced Panels
	07 44 33	Metal Faced Panels
	07 44 53	Glass-Fiber-Reinforced Cementitious Panels
	07 44 56	Mineral-Fiber-Reinforced Cementitious Panels
	07 44 63	Fabricated Faced Panel Assemblies
07	46 00	Siding
	07 46 16	Aluminum Siding
	07 46 19	Steel Siding
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	07 46 21	Zinc Siding
	07 46 23 07 46 24	Wood Shingle and Shake Siding
	07 46 24 07 46 24.13	Wood Shingle and Shake Siding Wood Shingle Siding
	07 46 24.16	Wood Shake Siding
	07 46 26	Hardboard Siding
	07 46 29	Plywood Siding
	07 46 33	Plastic Siding
	07 46 43	Composition Siding
	07 46 46	Fiber-Cement Siding
	07 46 63	Fabricated Panel Assemblies with Siding
07	7 50 00	Membrane Roofing
07	51 00	Built-Up Bituminous Roofing
	07 51 13	Built-Up Asphalt Roofing
	07 51 13.13	Cold-Applied Built-Up Asphalt Roofing
	07 51 16	Built-Up Coal Tar Roofing
	07 51 23	Glass-Fiber-Reinforced Asphalt Emulsion Roofing
07	52 00	Modified Bituminous Membrane Roofing
	07 52 13	Atactic-Polypropylene-Modified Bituminous Membrane Roofing
	07 52 13.11	Cold Adhesive Applied Atactic-Polypropylene-Modified Bituminous Membrane
	07 52 13.13	Roofing Torch-Applied Atactic-Polypropylene-Modified Bituminous Membrane Roofing
	07 52 13.13	Mechanically Fastened Atactic-Polypropylene-Modified Bituminous Membrane
	0. 0	Roofing
	07 52 16	Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing
	07 52 16.11	Cold Adhesive Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing
	07 52 16.12	Hot-Mopped Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing
	07 52 16.13	Torch-Applied Styrene-Butadiene-Styrene Modified Bituminous Membrane
	07 52 16.14	Roofing Mechanically Fastened Styrene-Butadiene-Styrene Modified Bituminous
	07 02 10111	Membrane Roofing
07	53 00	Elastomeric Membrane Roofing
	07 53 13	Chlorinated-Polyethylene Roofing
	07 53 16	Chlorosulfonate-Polyethylene Roofing
	07 53 23	Ethylene-Propylene-Diene-Monomer Roofing
	07 53 29	Polyisobutylene Roofing
07	54 00	Thermoplastic Membrane Roofing
	07 54 13	Copolymer-Alloy Roofing
	07 54 16	Ketone Ethylene Ester Roofing
	07 54 19	Polyvinyl-Chloride Roofing
	07 54 23	Thermoplastic-Polyolefin Roofing
	07 54 26	Nitrile-Butadiene-Polymer Roofing
07	55 00	Protected Membrane Roofing
	07 55 51	Built-Up Bituminous Protected Membrane Roofing
	07 55 52	Modified Bituminous Protected Membrane Roofing
	07 55 53	Elastomeric Protected Membrane Roofing
	07 55 54	Thermoplastic Protected Membrane Roofing
	07 55 56	Fluid-Applied Protected Membrane Roofing
	07 55 56.13	Hot-Applied Rubberized Asphalt Protected Membrane Roofing

07 55 63	Vegetated Protected Membrane Roofing
07 56 00	Fluid-Applied Roofing
07 57 00	Coated Foamed Roofing
07 57 13	Sprayed Polyurethane Foam Roofing
07 58 00	Roll Roofing
07 60 00	Flashing and Sheet Metal
07 61 00	Sheet Metal Roofing
07 61 13	Standing Seam Sheet Metal Roofing
07 61 16	Batten Seam Sheet Metal Roofing
07 61 19	Flat Seam Sheet Metal Roofing
07 62 00	Sheet Metal Flashing and Trim
07 63 00	Sheet Metal Roofing Specialties
07 64 00	Sheet Metal Wall Cladding
07 64 13	Standing Seam Sheet Metal Wall Cladding
07 64 16	Batten Seam Sheet Metal Wall Cladding
07 64 19	Flat Seam Sheet Metal Wall Cladding
07 65 00	Flexible Flashing
07 65 13	Laminated Sheet Flashing
07 65 16	Modified Bituminous Sheet Flashing
07 65 19	Plastic Sheet Flashing
07 65 23 07 65 26	Rubber Sheet Flashing
	Self-Adhering Sheet Flashing
<i></i>	PAAT ANA WAII SNACIAITIAE ANA
07 70 00	Roof and Wall Specialties and
07 70 00	Accessories
07 70 00	Accessories
	Accessories Roof Specialties
07 71 00	Accessories
07 71 00 07 71 13 07 71 16 07 71 19	Accessories Roof Specialties Manufactured Copings Manufactured Counterflashing Systems Manufactured Gravel Stops and Fasciae
07 71 00 07 71 13 07 71 16 07 71 19 07 71 23	Accessories Roof Specialties Manufactured Copings Manufactured Counterflashing Systems Manufactured Gravel Stops and Fasciae Manufactured Gutters and Downspouts
07 71 00 07 71 13 07 71 16 07 71 19 07 71 23 07 71 23.13	Accessories Roof Specialties Manufactured Copings Manufactured Counterflashing Systems Manufactured Gravel Stops and Fasciae Manufactured Gutters and Downspouts Gutter Debris Guards
07 71 00 07 71 13 07 71 16 07 71 19 07 71 23 07 71 23.13 07 71 26	Accessories Roof Specialties Manufactured Copings Manufactured Counterflashing Systems Manufactured Gravel Stops and Fasciae Manufactured Gutters and Downspouts Gutter Debris Guards Reglets
07 71 00 07 71 13 07 71 16 07 71 19 07 71 23 07 71 23.13 07 71 26 07 71 29	Accessories Roof Specialties Manufactured Copings Manufactured Counterflashing Systems Manufactured Gravel Stops and Fasciae Manufactured Gutters and Downspouts Gutter Debris Guards Reglets Manufactured Roof Expansion Joints
07 71 00 07 71 13 07 71 16 07 71 19 07 71 23 07 71 23.13 07 71 26 07 71 29 07 71 33	Accessories Roof Specialties Manufactured Copings Manufactured Counterflashing Systems Manufactured Gravel Stops and Fasciae Manufactured Gutters and Downspouts Gutter Debris Guards Reglets Manufactured Roof Expansion Joints Manufactured Scuppers
07 71 00 07 71 13 07 71 16 07 71 19 07 71 23 07 71 23.13 07 71 26 07 71 29 07 71 33 07 72 00	Accessories Roof Specialties Manufactured Copings Manufactured Counterflashing Systems Manufactured Gravel Stops and Fasciae Manufactured Gutters and Downspouts Gutter Debris Guards Reglets Manufactured Roof Expansion Joints Manufactured Scuppers Roof Accessories
07 71 00 07 71 13 07 71 16 07 71 19 07 71 23 07 71 23.13 07 71 26 07 71 29 07 71 33 07 72 00 07 72 13	Accessories Roof Specialties Manufactured Copings Manufactured Counterflashing Systems Manufactured Gravel Stops and Fasciae Manufactured Gutters and Downspouts Gutter Debris Guards Reglets Manufactured Roof Expansion Joints Manufactured Scuppers Roof Accessories Manufactured Curbs
07 71 00 07 71 13 07 71 16 07 71 19 07 71 23 07 71 23.13 07 71 26 07 71 29 07 71 33 07 72 00 07 72 13 07 72 23	Accessories Roof Specialties Manufactured Copings Manufactured Counterflashing Systems Manufactured Gravel Stops and Fasciae Manufactured Gutters and Downspouts Gutter Debris Guards Reglets Manufactured Roof Expansion Joints Manufactured Scuppers Roof Accessories Manufactured Curbs Relief Vents
07 71 00 07 71 13 07 71 16 07 71 19 07 71 23 07 71 23.13 07 71 26 07 71 29 07 71 33 07 72 00 07 72 13	Accessories Roof Specialties Manufactured Copings Manufactured Counterflashing Systems Manufactured Gravel Stops and Fasciae Manufactured Gutters and Downspouts Gutter Debris Guards Reglets Manufactured Roof Expansion Joints Manufactured Scuppers Roof Accessories Manufactured Curbs
07 71 00 07 71 13 07 71 16 07 71 19 07 71 23 07 71 23.13 07 71 26 07 71 29 07 71 33 07 72 00 07 72 13 07 72 23 07 72 26	Accessories Roof Specialties Manufactured Copings Manufactured Counterflashing Systems Manufactured Gravel Stops and Fasciae Manufactured Gutters and Downspouts Gutter Debris Guards Reglets Manufactured Roof Expansion Joints Manufactured Scuppers Roof Accessories Manufactured Curbs Relief Vents Ridge Vents
07 71 00 07 71 13 07 71 16 07 71 19 07 71 23 07 71 23.13 07 71 26 07 71 29 07 71 33 07 72 00 07 72 13 07 72 23 07 72 23 07 72 33 07 72 36 07 72 39	Accessories Roof Specialties Manufactured Copings Manufactured Counterflashing Systems Manufactured Gravel Stops and Fasciae Manufactured Gutters and Downspouts Gutter Debris Guards Reglets Manufactured Roof Expansion Joints Manufactured Scuppers Roof Accessories Manufactured Curbs Relief Vents Ridge Vents Roof Hatches
07 71 00 07 71 13 07 71 16 07 71 19 07 71 23 07 71 23.13 07 71 26 07 71 29 07 71 33 07 72 00 07 72 13 07 72 23 07 72 23 07 72 36 07 72 39 07 72 43	Accessories Roof Specialties Manufactured Copings Manufactured Gravel Stops and Fasciae Manufactured Gutters and Downspouts Gutter Debris Guards Reglets Manufactured Roof Expansion Joints Manufactured Scuppers Roof Accessories Manufactured Curbs Relief Vents Ridge Vents Roof Hatches Smoke Vents Operable Roof Vents Roof Walk Boards
07 71 00 07 71 13 07 71 16 07 71 19 07 71 23 07 71 23.13 07 71 26 07 71 29 07 71 33 07 72 00 07 72 13 07 72 23 07 72 26 07 72 33 07 72 36 07 72 39 07 72 43 07 72 46	Accessories Roof Specialties Manufactured Copings Manufactured Gravel Stops and Fasciae Manufactured Gutters and Downspouts Gutter Debris Guards Reglets Manufactured Roof Expansion Joints Manufactured Scuppers Roof Accessories Manufactured Curbs Relief Vents Ridge Vents Roof Hatches Smoke Vents Operable Roof Vents Roof Walk Boards Roof Walkways
07 71 00 07 71 13 07 71 16 07 71 19 07 71 23 07 71 23.13 07 71 26 07 71 29 07 71 33 07 72 00 07 72 13 07 72 23 07 72 26 07 72 33 07 72 36 07 72 39 07 72 43 07 72 46 07 72 53	Accessories Roof Specialties Manufactured Copings Manufactured Gravel Stops and Fasciae Manufactured Gutters and Downspouts Gutter Debris Guards Reglets Manufactured Roof Expansion Joints Manufactured Scuppers Roof Accessories Manufactured Curbs Relief Vents Ridge Vents Roof Hatches Smoke Vents Operable Roof Vents Roof Walk Boards Roof Walkways Snow Guards
07 71 00 07 71 13 07 71 16 07 71 19 07 71 23 07 71 23.13 07 71 26 07 71 29 07 71 33 07 72 00 07 72 13 07 72 23 07 72 23 07 72 33 07 72 36 07 72 39 07 72 43 07 72 53 07 72 53 07 72 63	Roof Specialties Manufactured Copings Manufactured Counterflashing Systems Manufactured Gravel Stops and Fasciae Manufactured Gutters and Downspouts Gutter Debris Guards Reglets Manufactured Roof Expansion Joints Manufactured Scuppers Roof Accessories Manufactured Curbs Relief Vents Ridge Vents Roof Hatches Smoke Vents Operable Roof Vents Roof Walk Boards Roof Walkways Snow Guards Waste Containment Assemblies
07 71 00 07 71 13 07 71 16 07 71 19 07 71 23 07 71 23.13 07 71 26 07 71 29 07 71 33 07 72 00 07 72 13 07 72 23 07 72 26 07 72 33 07 72 36 07 72 39 07 72 43 07 72 46 07 72 53	Accessories Roof Specialties Manufactured Copings Manufactured Gravel Stops and Fasciae Manufactured Gutters and Downspouts Gutter Debris Guards Reglets Manufactured Roof Expansion Joints Manufactured Scuppers Roof Accessories Manufactured Curbs Relief Vents Ridge Vents Roof Hatches Smoke Vents Operable Roof Vents Roof Walkways Snow Guards

07 76 13 07 76 16	Roof Ballast Pavers Roof Decking Pavers
07 77 00	Wall Specialties
07 80 00	Fire and Smoke Protection
07 81 00	Applied Fireproofing
07 81 13	Cement Aggregate Fireproofing
07 81 16	Cementitious Fireproofing
07 81 19 07 81 23	Foamed Magnesium-Oxychloride Fireproofing Intumescent Fireproofing
07 81 26	Magnesium Cement Fireproofing
07 81 29	Mineral-Fiber Cementitious Fireproofing
07 81 33	Mineral-Fiber Fireproofing
07 82 00	Board Fireproofing
07 82 13	Calcium-Silicate Board Fireproofing
07 82 16 07 84 00	Slag-Fiber Board Fireproofing
07 84 1 3	Firestopping Penetration Firestopping
07 84 13.13	Penetration Firestopping Mortars
07 84 13.16	Penetration Firestopping Devices
07 84 43	Joint Firestopping
07 84 53	Building Perimeter Firestopping
07 86 00	Smoke Seals
07 87 00	Smoke Containment Barriers
07 90 00	Joint Protection
07 90 00 07 91 00	Joint Protection Preformed Joint Seals
07 91 00 07 91 13	Preformed Joint Seals Compression Seals
07 91 00 07 91 13 07 91 16	Preformed Joint Seals Compression Seals Joint Gaskets
07 91 00 07 91 13 07 91 16 07 91 23	Preformed Joint Seals Compression Seals Joint Gaskets Backer Rods
07 91 00 07 91 13 07 91 16 07 91 23 07 91 26	Preformed Joint Seals Compression Seals Joint Gaskets Backer Rods Joint Fillers
07 91 00 07 91 13 07 91 16 07 91 23	Preformed Joint Seals Compression Seals Joint Gaskets Backer Rods
07 91 00 07 91 13 07 91 16 07 91 23 07 91 26 07 92 00 07 92 13 07 92 16	Preformed Joint Seals Compression Seals Joint Gaskets Backer Rods Joint Fillers Joint Sealants Elastomeric Joint Sealants Rigid Joint Sealants
07 91 00 07 91 13 07 91 16 07 91 23 07 91 26 07 92 00 07 92 13 07 92 16 07 92 19	Preformed Joint Seals Compression Seals Joint Gaskets Backer Rods Joint Fillers Joint Sealants Elastomeric Joint Sealants Rigid Joint Sealants Acoustical Joint Sealants
07 91 00 07 91 13 07 91 16 07 91 23 07 91 26 07 92 00 07 92 13 07 92 16 07 92 19 07 95 00	Preformed Joint Seals Compression Seals Joint Gaskets Backer Rods Joint Fillers Joint Sealants Elastomeric Joint Sealants Rigid Joint Sealants Acoustical Joint Sealants Expansion Control
07 91 00 07 91 13 07 91 16 07 91 23 07 91 26 07 92 00 07 92 13 07 92 16 07 92 19 07 95 00 07 95 13	Preformed Joint Seals Compression Seals Joint Gaskets Backer Rods Joint Fillers Joint Sealants Elastomeric Joint Sealants Rigid Joint Sealants Acoustical Joint Sealants Expansion Control Expansion Joint Cover Assemblies
07 91 00 07 91 13 07 91 16 07 91 23 07 91 26 07 92 00 07 92 13 07 92 16 07 92 19 07 95 00 07 95 13 07 95 13.13	Preformed Joint Seals Compression Seals Joint Gaskets Backer Rods Joint Fillers Joint Sealants Elastomeric Joint Sealants Rigid Joint Sealants Acoustical Joint Sealants Expansion Control Expansion Joint Cover Assemblies Interior Expansion Joint Cover Assemblies
07 91 00 07 91 13 07 91 16 07 91 23 07 91 26 07 92 00 07 92 13 07 92 16 07 92 19 07 95 00 07 95 13 07 95 13.13 07 95 13.16 07 95 13.19	Preformed Joint Seals Compression Seals Joint Gaskets Backer Rods Joint Fillers Joint Sealants Elastomeric Joint Sealants Rigid Joint Sealants Acoustical Joint Sealants Expansion Control Expansion Joint Cover Assemblies Interior Expansion Joint Cover Assemblies Exterior Expansion Joint Cover Assemblies Parking Deck Expansion Joint Cover Assemblies
07 91 00 07 91 13 07 91 16 07 91 23 07 91 26 07 92 00 07 92 13 07 92 16 07 92 19 07 95 00 07 95 13 07 95 13.13 07 95 13.16 07 95 13.19 07 95 53	Preformed Joint Seals Compression Seals Joint Gaskets Backer Rods Joint Fillers Joint Sealants Elastomeric Joint Sealants Rigid Joint Sealants Acoustical Joint Sealants Expansion Control Expansion Joint Cover Assemblies Interior Expansion Joint Cover Assemblies Exterior Expansion Joint Cover Assemblies Parking Deck Expansion Joint Cover Assemblies Joint Slide Bearings
07 91 00 07 91 13 07 91 16 07 91 23 07 91 26 07 92 00 07 92 13 07 92 16 07 92 19 07 95 00 07 95 13 07 95 13.13 07 95 13.13 07 95 13.16 07 95 13.19 07 95 53 07 95 63	Preformed Joint Seals Compression Seals Joint Gaskets Backer Rods Joint Fillers Joint Sealants Elastomeric Joint Sealants Rigid Joint Sealants Acoustical Joint Sealants Expansion Control Expansion Joint Cover Assemblies Interior Expansion Joint Cover Assemblies Exterior Expansion Joint Cover Assemblies Parking Deck Expansion Joint Cover Assemblies Joint Slide Bearings Bridge Expansion Joint Cover Assemblies
07 91 00 07 91 13 07 91 16 07 91 23 07 91 26 07 92 00 07 92 13 07 92 16 07 92 19 07 95 00 07 95 13 07 95 13.13 07 95 13.16 07 95 13.19 07 95 53	Preformed Joint Seals Compression Seals Joint Gaskets Backer Rods Joint Fillers Joint Sealants Elastomeric Joint Sealants Rigid Joint Sealants Acoustical Joint Sealants Expansion Control Expansion Joint Cover Assemblies Interior Expansion Joint Cover Assemblies Exterior Expansion Joint Cover Assemblies Parking Deck Expansion Joint Cover Assemblies Joint Slide Bearings
07 91 00 07 91 13 07 91 16 07 91 23 07 91 26 07 92 00 07 92 13 07 92 16 07 92 19 07 95 00 07 95 13 07 95 13.13 07 95 13.13 07 95 13.16 07 95 13.19 07 95 53 07 95 63	Preformed Joint Seals Compression Seals Joint Gaskets Backer Rods Joint Fillers Joint Sealants Elastomeric Joint Sealants Rigid Joint Sealants Acoustical Joint Sealants Expansion Control Expansion Joint Cover Assemblies Interior Expansion Joint Cover Assemblies Exterior Expansion Joint Cover Assemblies Parking Deck Expansion Joint Cover Assemblies Joint Slide Bearings Bridge Expansion Joint Cover Assemblies
07 91 00 07 91 13 07 91 16 07 91 23 07 91 26 07 92 00 07 92 13 07 92 16 07 92 19 07 95 00 07 95 13 07 95 13.13 07 95 13.16 07 95 13.19 07 95 53 07 95 63 08 00 00 08 01 00 08 01 10	Preformed Joint Seals Compression Seals Joint Gaskets Backer Rods Joint Fillers Joint Sealants Elastomeric Joint Sealants Rigid Joint Sealants Acoustical Joint Sealants Expansion Control Expansion Joint Cover Assemblies Interior Expansion Joint Cover Assemblies Exterior Expansion Joint Cover Assemblies Parking Deck Expansion Joint Cover Assemblies Joint Slide Bearings Bridge Expansion Joint Cover Assemblies Openings Operation and Maintenance of Openings Operation and Maintenance of Doors and Frames
07 91 00	Preformed Joint Seals Compression Seals Joint Gaskets Backer Rods Joint Fillers Joint Sealants Elastomeric Joint Sealants Rigid Joint Sealants Acoustical Joint Sealants Expansion Control Expansion Joint Cover Assemblies Interior Expansion Joint Cover Assemblies Exterior Expansion Joint Cover Assemblies Parking Deck Expansion Joint Cover Assemblies Joint Slide Bearings Bridge Expansion Joint Cover Assemblies Openings Operation and Maintenance of Openings Operation and Maintenance of Doors and Frames Operation and Maintenance of Metal Doors and Frames
07 91 00 07 91 13 07 91 16 07 91 23 07 91 26 07 92 00 07 92 13 07 92 16 07 92 19 07 95 00 07 95 13 07 95 13.13 07 95 13.16 07 95 13.19 07 95 53 07 95 63 08 00 00 08 01 00 08 01 10	Preformed Joint Seals Compression Seals Joint Gaskets Backer Rods Joint Fillers Joint Sealants Elastomeric Joint Sealants Rigid Joint Sealants Acoustical Joint Sealants Expansion Control Expansion Joint Cover Assemblies Interior Expansion Joint Cover Assemblies Exterior Expansion Joint Cover Assemblies Parking Deck Expansion Joint Cover Assemblies Joint Slide Bearings Bridge Expansion Joint Cover Assemblies Openings Operation and Maintenance of Openings Operation and Maintenance of Doors and Frames

00.04	10 000	ation and Maintananae of Commonite Doors
08 01 1	•	ation and Maintenance of Composite Doors
08 01 1	•	ation and Maintenance of Integrated Door Opening Assemblies
08 01 3	•	ation and Maintenance of Specialty Doors and Frames
08 01 3	•	ation and Maintenance of Sliding Glass Doors
08 01 3		ation and Maintenance of Coiling Doors and Grilles
08 01 3	•	ation and Maintenance of Special Function Doors
08 01 3	•	ation and Maintenance of Folding Doors and Grilles
08 01 3		ation and Maintenance of Panel Doors
08 01 3	-	ation and Maintenance of Traffic Doors
08 01 4	•	ation and Maintenance of Entrances, Storefronts, and Curtain Walls
08 01 4	•	ation and Maintenance of Entrances
08 01 4	•	ation and Maintenance of Storefronts
08 01 4	•	ation and Maintenance of Curtain Walls
08 01 8	•	ation and Maintenance of Windows
08 01 8	•	ation and Maintenance of Metal Windows
08 01 8		ation and Maintenance of Wood Windows
08 01 5		Window Repairs
08 01 5		Window Rehabilitation
08 01 5		Window Replacement
08 01 5		Window Restoration
08 01 5 08 01 5		ric Treatment of Wood Windows
08 01 3		ation and Maintenance of Plastic Windows
08 01 3	•	ation and Maintenance of Composite Windows
08 01 6		ation and Maintenance of Special Function Windows
	-	ation and Maintenance of Skylights and Roof Windows
08 01 6	•	ation and Maintenance of Roof Windows
08 01 6	•	ation and Maintenance of Unit Skylights
08 01 6	•	ation and Maintenance of Metal-Framed Skylights
08 01 6	•	ation and Maintenance of Plastic-Framed Skylights
08 01 7	•	ation and Maintenance of Hardware
08 01 7	•	ation and Maintenance of Door Hardware
08 01 7	•	ation and Maintenance of Access Control Hardware
08 01 7	•	ation and Maintenance of Window Hardware
08 01 8		tenance of Glazing
08 01 8		tenance of Glass Glazing
08 01 8		tenance of Plastic Glazing
08 01 8		tenance of Special Function Glazing
08 01 9	•	ation and Maintenance of Louvers and Vents
08 01 9 08 01 9	•	ation and Maintenance of Louvers
		ation and Maintenance of Louvered Equipment Enclosures
08 01 9	•	ation and Maintenance of Vents
08 03 00		servation Treatment for Period Openings
08 03 1		ervation Treatment for Period Metal Doors and Frames
08 03 1		ervation Treatment for Period Bronze Doors and Frames
08 03 1		ervation Treatment for Period Wood Doors
08 03 1		ervation Treatment for Period Metal-Faced Wood Doors ervation Treatment for Period Stile and Rail Wood Doors
08 03 1 08 03 3		ervation Treatment for Period Stile and Rail Wood Doors ervation Treatment for Period Specialty Doors and Frames
08 03 3		ervation Treatment for Period Specially Doors and Frames ervation Treatment for Period Special Function Doors
08 03 3		ervation Treatment for Period Special Function Doors
08 03 5		ervation Treatment for Period Windows
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0	8 03 51	Conservation Treatment for Period Metal Windows
	8 03 51.16	Conservation Treatment for Period Bronze Windows
	8 03 51.23	Conservation Treatment for Period Steel Windows
	8 03 52	Conservation Treatment for Period Wood Windows
	8 03 70	Conservation Treatment for Period Hardware
	8 03 71	Conservation Treatment for Period Door Hardware
	8 03 75	Conservation Treatment for Period Window Hardware
	8 03 90	Conservation Treatment for Period Louvers and Vents Conservation Treatment for Period Louvers
	8 03 91 8 03 95	Conservation Treatment for Period Louvers Conservation Treatment for Period Vents
08 05		Common Work Results for Openings
	8 05 05	Selective Demolition for Openings
08 06		Schedules for Openings
	8 06 10	Door Schedule
	8 06 10.13	Door Type Schedule
	8 06 10.16 8 06 40	Frame Type Schedule Schedules for Entrances, Storefronts, and Curtain Walls
	8 06 41	Entrance Schedule
	8 06 42	Storefront Schedule
	8 06 50	Window Schedule
	8 06 60	Skylight Schedule
	8 06 70	Hardware Schedule
0	8 06 71	Door Hardware Schedule
0	8 06 80	Glazing Schedule
0	8 06 90	Louver and Vent Schedule
08 08	8 00	Commissioning of Openings
	00 000	Commissioning of Openings Doors and Frames
08 1	0 00	Doors and Frames
08 1 08 11	0 00 00	Doors and Frames Metal Doors and Frames
08 1 08 11 0	0 00	Doors and Frames
08 1 08 11	0 00 00 8 11 13 8 11 13.13 8 11 13.16	Doors and Frames Metal Doors and Frames Hollow Metal Doors and Frames Standard Hollow Metal Doors and Frames Custom Hollow Metal Doors and Frames
08 1 08 11	0 00 00 8 11 13 8 11 13.13 8 11 13.16 8 11 16	Doors and Frames Metal Doors and Frames Hollow Metal Doors and Frames Standard Hollow Metal Doors and Frames Custom Hollow Metal Doors and Frames Aluminum Doors and Frames
08 1 08 11 0 0 0	0 00 00 8 11 13 8 11 13.13 8 11 13.16 8 11 16 8 11 19	Doors and Frames Metal Doors and Frames Hollow Metal Doors and Frames Standard Hollow Metal Doors and Frames Custom Hollow Metal Doors and Frames Aluminum Doors and Frames Stainless-Steel Doors and Frames
08 1 08 11 0 0 0 0 0 0	0 00 00 8 11 13 8 11 13.13 8 11 13.16 8 11 16 8 11 19 8 11 23	Doors and Frames Metal Doors and Frames Hollow Metal Doors and Frames Standard Hollow Metal Doors and Frames Custom Hollow Metal Doors and Frames Aluminum Doors and Frames Stainless-Steel Doors and Frames Bronze Doors and Frames
08 1 08 11 0 0 0 0 0 0	0 00 00 8 11 13 8 11 13.13 8 11 13.16 8 11 16 8 11 19 8 11 23 8 11 63	Doors and Frames Metal Doors and Frames Hollow Metal Doors and Frames Standard Hollow Metal Doors and Frames Custom Hollow Metal Doors and Frames Aluminum Doors and Frames Stainless-Steel Doors and Frames Bronze Doors and Frames Metal Screen and Storm Doors and Frames
08 1 08 11 0 0 0 0 0 0 0	0 00 00 8 11 13 8 11 13.13 8 11 13.16 8 11 16 8 11 19 8 11 23 8 11 63 8 11 63.13	Doors and Frames Metal Doors and Frames Hollow Metal Doors and Frames Standard Hollow Metal Doors and Frames Custom Hollow Metal Doors and Frames Aluminum Doors and Frames Stainless-Steel Doors and Frames Bronze Doors and Frames Metal Screen and Storm Doors and Frames Steel Screen and Storm Doors and Frames
08 1 08 11 0 0 0 0 0 0 0	0 00 00 8 11 13.13 8 11 13.16 8 11 16 8 11 19 8 11 23 8 11 63.8 8 11 63.13 8 11 63.23	Doors and Frames Metal Doors and Frames Hollow Metal Doors and Frames Standard Hollow Metal Doors and Frames Custom Hollow Metal Doors and Frames Aluminum Doors and Frames Stainless-Steel Doors and Frames Bronze Doors and Frames Metal Screen and Storm Doors and Frames Steel Screen and Storm Doors and Frames Aluminum Screen and Storm Doors and Frames
08 11 08 11 0 0 0 0 0 0 0 0	0 00 00 8 11 13 8 11 13.13 8 11 13.16 8 11 16 8 11 19 8 11 23 8 11 63 8 11 63.13	Doors and Frames Metal Doors and Frames Hollow Metal Doors and Frames Standard Hollow Metal Doors and Frames Custom Hollow Metal Doors and Frames Aluminum Doors and Frames Stainless-Steel Doors and Frames Bronze Doors and Frames Metal Screen and Storm Doors and Frames Steel Screen and Storm Doors and Frames
08 11 08 11 0 0 0 0 0 0 0 0 0 0 0 0	0 00 00 8 11 13 8 11 13.13 8 11 13.16 8 11 16 8 11 19 8 11 23 8 11 63.13 8 11 63.23 8 11 66.83 8 11 66.13 8 11 66.23	Doors and Frames Metal Doors and Frames Hollow Metal Doors and Frames Standard Hollow Metal Doors and Frames Custom Hollow Metal Doors and Frames Aluminum Doors and Frames Stainless-Steel Doors and Frames Bronze Doors and Frames Metal Screen and Storm Doors and Frames Steel Screen and Storm Doors and Frames Aluminum Screen and Storm Doors and Frames Metal Screen Doors and Frames Metal Screen Doors and Frames
08 11 08 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 00 00 8 11 13 8 11 13.13 8 11 13.16 8 11 16 8 11 19 8 11 23 8 11 63 8 11 63.13 8 11 63.23 8 11 66.83 8 11 66.13 8 11 66.23 8 11 69	Doors and Frames Metal Doors and Frames Hollow Metal Doors and Frames Standard Hollow Metal Doors and Frames Custom Hollow Metal Doors and Frames Aluminum Doors and Frames Stainless-Steel Doors and Frames Bronze Doors and Frames Metal Screen and Storm Doors and Frames Steel Screen and Storm Doors and Frames Aluminum Screen and Storm Doors and Frames Metal Screen Doors and Frames Steel Screen Doors and Frames Aluminum Screen Doors and Frames Metal Storm Doors and Frames Metal Storm Doors and Frames Metal Storm Doors and Frames
08 1 08 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 00 00 8 11 13 8 11 13.13 8 11 13.16 8 11 16 8 11 19 8 11 23 8 11 63.13 8 11 63.13 8 11 66.23 8 11 66.13 8 11 66.23 8 11 69 8 11 69.13	Doors and Frames Metal Doors and Frames Hollow Metal Doors and Frames Standard Hollow Metal Doors and Frames Custom Hollow Metal Doors and Frames Aluminum Doors and Frames Stainless-Steel Doors and Frames Bronze Doors and Frames Metal Screen and Storm Doors and Frames Steel Screen and Storm Doors and Frames Aluminum Screen and Storm Doors and Frames Metal Screen Doors and Frames Steel Screen Doors and Frames Aluminum Screen Doors and Frames Metal Storm Doors and Frames Metal Storm Doors and Frames Steel Storm Doors and Frames
08 11 08 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 00 8 11 13 8 11 13.13 8 11 13.16 8 11 16 8 11 19 8 11 23 8 11 63.13 8 11 63.23 8 11 66.13 8 11 66.13 8 11 66.23 8 11 69.23	Doors and Frames Metal Doors and Frames Hollow Metal Doors and Frames Standard Hollow Metal Doors and Frames Custom Hollow Metal Doors and Frames Aluminum Doors and Frames Stainless-Steel Doors and Frames Bronze Doors and Frames Metal Screen and Storm Doors and Frames Steel Screen and Storm Doors and Frames Aluminum Screen and Storm Doors and Frames Metal Screen Doors and Frames Steel Screen Doors and Frames Steel Screen Doors and Frames Steel Screen Doors and Frames Aluminum Screen Doors and Frames Metal Storm Doors and Frames Steel Storm Doors and Frames Aluminum Storm Doors and Frames
08 11 08 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 00 8 11 13 8 11 13.13 8 11 13.16 8 11 16 8 11 19 8 11 23 8 11 63.13 8 11 63.23 8 11 66.13 8 11 66.23 8 11 69.23 8 11 69.13 8 11 69.23 8 11 73	Doors and Frames Metal Doors and Frames Hollow Metal Doors and Frames Standard Hollow Metal Doors and Frames Custom Hollow Metal Doors and Frames Aluminum Doors and Frames Stainless-Steel Doors and Frames Bronze Doors and Frames Metal Screen and Storm Doors and Frames Steel Screen and Storm Doors and Frames Aluminum Screen and Storm Doors and Frames Metal Screen Doors and Frames Steel Screen Doors and Frames Aluminum Screen Doors and Frames Metal Storm Doors and Frames Metal Storm Doors and Frames Steel Storm Doors and Frames Steel Storm Doors and Frames Steel Storm Doors and Frames Aluminum Storm Doors and Frames Sliding Metal Fire Doors
08 11 08 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 00 00 8 11 13 8 11 13.13 8 11 13.16 8 11 16 8 11 19 8 11 23 8 11 63.13 8 11 63.23 8 11 66.23 8 11 66.23 8 11 66.23 8 11 69.13 8 11 69.23 8 11 73 8 11 74	Doors and Frames Metal Doors and Frames Hollow Metal Doors and Frames Standard Hollow Metal Doors and Frames Custom Hollow Metal Doors and Frames Aluminum Doors and Frames Stainless-Steel Doors and Frames Bronze Doors and Frames Metal Screen and Storm Doors and Frames Steel Screen and Storm Doors and Frames Aluminum Screen and Storm Doors and Frames Metal Screen Doors and Frames Steel Screen Doors and Frames Steel Screen Doors and Frames Aluminum Screen Doors and Frames Metal Storm Doors and Frames Metal Storm Doors and Frames Steel Storm Doors and Frames Aluminum Storm Doors and Frames Sliding Metal Fire Doors Sliding Metal Grilles
08 1 08 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 00 8 11 13 8 11 13.13 8 11 13.16 8 11 16 8 11 19 8 11 23 8 11 63.13 8 11 63.23 8 11 66.13 8 11 66.23 8 11 69.23 8 11 69.13 8 11 69.23 8 11 73 8 11 74	Metal Doors and Frames Hollow Metal Doors and Frames Standard Hollow Metal Doors and Frames Custom Hollow Metal Doors and Frames Aluminum Doors and Frames Stainless-Steel Doors and Frames Bronze Doors and Frames Metal Screen and Storm Doors and Frames Steel Screen and Storm Doors and Frames Aluminum Screen and Storm Doors and Frames Metal Screen Doors and Frames Steel Screen Doors and Frames Steel Screen Doors and Frames Aluminum Screen Doors and Frames Metal Storm Doors and Frames Metal Storm Doors and Frames Steel Storm Doors and Frames Sliding Metal Fire Doors Sliding Metal Grilles Metal Frames
08 1 08 11 00 00 00 00 00 00 00 00 00 00 00 00 0	0 00 8 11 13 8 11 13.13 8 11 13.16 8 11 16 8 11 19 8 11 23 8 11 63.13 8 11 63.23 8 11 66.23 8 11 66.23 8 11 69.13 8 11 69.23 8 11 73 8 11 74 2 00 8 12 13	Metal Doors and Frames Hollow Metal Doors and Frames Standard Hollow Metal Doors and Frames Custom Hollow Metal Doors and Frames Aluminum Doors and Frames Stainless-Steel Doors and Frames Bronze Doors and Frames Metal Screen and Storm Doors and Frames Steel Screen and Storm Doors and Frames Aluminum Screen and Storm Doors and Frames Metal Screen Doors and Frames Steel Screen Doors and Frames Steel Screen Doors and Frames Aluminum Screen Doors and Frames Metal Storm Doors and Frames Steel Storm Doors and Frames Hollow Metal Frames Hollow Metal Frames
08 11 08 11 00 00 00 00 00 00 00 00 00 00 00 00 0	0 00 8 11 13 8 11 13.13 8 11 13.16 8 11 16 8 11 19 8 11 23 8 11 63.13 8 11 63.23 8 11 66.23 8 11 66.23 8 11 69.13 8 11 69.23 8 11 73 8 11 74 2 00 8 12 13.13	Doors and Frames Metal Doors and Frames Hollow Metal Doors and Frames Standard Hollow Metal Doors and Frames Custom Hollow Metal Doors and Frames Aluminum Doors and Frames Stainless-Steel Doors and Frames Bronze Doors and Frames Metal Screen and Storm Doors and Frames Steel Screen and Storm Doors and Frames Aluminum Screen and Storm Doors and Frames Metal Screen Doors and Frames Steel Screen Doors and Frames Aluminum Screen Doors and Frames Metal Storm Doors and Frames Aluminum Screen Doors and Frames Steel Storm Doors and Frames Steel Storm Doors and Frames Steel Storm Doors and Frames Aluminum Storm Doors and Frames Sliding Metal Fire Doors Sliding Metal Grilles Metal Frames Hollow Metal Frames Standard Hollow Metal Frames
08 11 08 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 00 8 11 13 8 11 13.13 8 11 13.16 8 11 16 8 11 19 8 11 23 8 11 63.13 8 11 63.23 8 11 66.23 8 11 66.23 8 11 69.13 8 11 69.23 8 11 73 8 11 74 2 00 8 12 13	Metal Doors and Frames Hollow Metal Doors and Frames Standard Hollow Metal Doors and Frames Custom Hollow Metal Doors and Frames Aluminum Doors and Frames Stainless-Steel Doors and Frames Bronze Doors and Frames Metal Screen and Storm Doors and Frames Steel Screen and Storm Doors and Frames Aluminum Screen and Storm Doors and Frames Metal Screen Doors and Frames Steel Screen Doors and Frames Steel Screen Doors and Frames Aluminum Screen Doors and Frames Metal Storm Doors and Frames Steel Storm Doors and Frames Hollow Metal Frames Hollow Metal Frames

08 12 19 08 12 23 08 13 00 08 13 13 13 08 13 13.13 08 13 13.53 08 13 16 08 13 16.13 08 13 19 08 13 23 08 13 73	Stainless-Steel Frames Bronze Frames Metal Doors Hollow Metal Doors Standard Hollow Metal Doors Custom Hollow Metal Doors Aluminum Doors Aluminum Terrace Doors Stainless-Steel Doors Bronze Doors Sliding Metal Doors
08 13 76	Bifolding Metal Doors
08 14 00	Wood Doors
08 14 13 08 14 16 08 14 23 08 14 23.13 08 14 23.16 08 14 23.17 08 14 23.19 08 14 23.19 08 14 33 08 14 33.13 08 14 66 08 14 69 08 14 73 08 14 76	Carved Wood Doors Flush Wood Doors Clad Wood Doors Metal-Faced Wood Doors Plastic-Laminate-Faced Wood Doors Plastic-Faced Wood Doors Molded-Hardboard-Faced Wood Doors Prefinished Wood Doors Stile and Rail Wood Doors Wood Terrace Doors Wood Screen Doors Wood Storm Doors Sliding Wood Doors Bifolding Wood Doors
08 15 00	Plastic Doors
08 15 13 08 15 16 08 15 66 08 15 69 08 15 73 08 15 76	Laminated Plastic Doors Solid Plastic Doors Plastic Screen Doors Plastic Storm Doors Sliding Plastic Doors Bifolding Plastic Doors
08 16 00	Composite Doors
08 16 13 08 16 73 08 16 76	Fiberglass Doors Sliding Composite Doors Bifolding Composite Doors
08 17 00 08 17 13 08 17 23 08 17 33 08 17 43	Integrated Door Opening Assemblies Integrated Metal Door Opening Assemblies Integrated Wood Door Opening Assemblies Integrated Plastic Door Opening Assemblies Integrated Composite Door Opening Assemblies
08 30 00	Specialty Doors and Frames
08 31 00	Access Doors and Panels
08 31 13 08 31 13.53 08 31 16	Access Doors and Frames Security Access Doors and Frames Access Panels and Frames
08 32 00	Sliding Glass Doors

08 33 23.13 Overhead Rapid Coiling Doors 08 33 26 Overhead Coiling Grilles 08 33 33 Side Coiling Doors
08 33 33 Side Coiling Doors
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08 33 36 Side Coiling Grilles
08 33 43 Overhead Coiling Smoke Curtains
08 33 44 Overhead Coiling Fire Curtains
08 34 00 Special Function Doors
08 34 13 Cold Storage Doors
08 34 16 Hangar Doors
08 34 19 Industrial Doors
08 34 33 Lightproof Doors 08 34 36 Darkroom Doors
08 34 46 Radio-Frequency-Interference Shielding Doors
08 34 49 Radiation Shielding Doors and Frames
08 34 49.13 Neutron Shielding Doors and Frames
08 34 53 Security Doors and Frames
08 34 56 Security Gates
08 34 58 File Room Doors and Frames 08 34 59 Vault Doors and Day Gates
08 34 59 Vault Doors and Day Gates 08 34 73 Sound Control Door Assemblies
08 34 73.13 Metal Sound Control Door Assemblies
08 34 73.16 Wood Sound Control Door Assemblies
08 35 00 Folding Doors and Grilles
08 35 13 Folding Doors
08 35 13.13 According Folding Doors
08 35 13.23 Accordion Folding Fire Doors 08 35 13.33 Panel Folding Doors
08 35 16 Folding Grilles
08 35 16.13 Accordion Folding Grilles
08 36 00 Panel Doors
08 36 13 Sectional Doors
08 36 16 Single-Panel Doors
08 36 19 Multi-Leaf Vertical Lift Doors
08 36 23 Telescoping Vertical Lift Doors
08 38 00 Traffic Doors
08 38 13 Flexible Strip Doors
08 38 16 Flexible Traffic Doors 08 38 19 Rigid Traffic Doors
08 39 00 Pressure-Resistant Doors
08 39 13 Airtight Doors
08 39 19 Watertight Doors
08 39 53 Blast-Resistant Doors

08 40 00	Entrances Storofronts and Curtain Walls
	Entrances, Storefronts, and Curtain Walls
08 41 00	Entrances and Storefronts
08 41 13 08 41 13.13	Aluminum-Framed Entrances and Storefronts Fire-Rated Aluminum-Framed Entrances and Storefronts
08 41 16	Bronze-Framed Entrances and Storefronts
08 41 19	Stainless-Steel-Framed Entrances and Storefronts
08 41 23	Steel-Framed Entrances and Storefronts
08 41 26	All-Glass Entrances and Storefronts
08 41 26.13	Point Supported All-Glass Storefronts
08 42 00	Entrances
08 42 13	Aluminum-Framed Entrances
08 42 26	All-Glass Entrances
08 42 29	Automatic Entrances
08 42 29.13	Folding Automatic Entrances
08 42 29.23	Sliding Automatic Entrances
08 42 29.33	Swinging Automatic Entrances
08 42 33	Revolving Door Entrances
08 42 33.13	Security Revolving Door Entrances
08 42 36	Balanced Door Entrances
08 42 39 08 42 43	Pressure-Resistant Entrances Intensive Care Unit/Critical Care Unit Entrances
08 43 00	Storefronts
08 43 11	Timber-Framed Storefronts
08 43 13	Aluminum-Framed Storefronts
08 43 13.13	Fire-Rated Aluminum Storefronts
08 43 16 08 43 19	Bronze-Framed Storefronts Stainless-Steel-Framed Storefronts
08 43 23	Steel-Framed Storefronts
08 43 26	All-Glass Storefronts
08 43 27	Channel Glass Storefronts
08 43 29	Sliding Storefronts
08 44 00	Curtain Wall and Glazed Assemblies
08 44 11	Glazed Timber Curtain Walls
08 44 12	Glazed Composite Curtain Wall
08 44 12.13	Glazed Fiberglass Curtain Wall
08 44 13	Glazed Aluminum Curtain Walls
08 44 16	Glazed Bronze Curtain Walls
08 44 18	Glazed Steel Curtain Walls
08 44 19	Glazed Stainless-Steel Curtain Walls
08 44 23	Structural Sealant Glazed Curtain Walls
08 44 26	Structural Glass Curtain Walls
08 44 26.13	Glass Framed Point Supported Glass Curtain Walls
08 44 26.16	Metal Framed Point Supported Glass Curtain Walls
08 44 26.23	Cable Framed Point Supported Glass Curtain Walls
08 44 33	Sloped Glazing Assemblies
08 45 00	Translucent Wall and Roof Assemblies
08 45 13	Structured-Polycarbonate-Panel Assemblies
08 45 23	Fiberglass-Sandwich-Panel Assemblies
08 46 00	Window Wall Assemblies

08 50 00	Windows
08 51 00	Metal Windows
08 51 13	Aluminum Windows
08 51 16	Bronze Windows
08 51 19	Stainless-Steel Windows
08 51 23	Steel Windows
08 51 23.13	Hot-Rolled Steel Windows
08 51 23.23	Cold-Rolled Steel Windows
08 51 66	Metal Window Screens
08 51 69	Metal Storm Windows
08 52 00	Wood Windows
08 52 13	Metal-Clad Wood Windows
08 52 16	Plastic-Clad Wood Windows
08 52 66	Wood Window Screens
08 52 69	Wood Storm Windows
08 53 00	Plastic Windows
08 53 13	Vinyl Windows
08 53 66	Vinyl Window Screens
08 53 69	Vinyl Storm Windows
08 54 00	Composite Windows
08 54 13	Fiberglass Windows
08 54 66	Fiberglass Window Screens
08 54 69	Fiberglass Storm Windows
08 55 00	Pressure-Resistant Windows
08 55 13	Tornado-Resistant Windows
08 55 23	Blast-Resistant Windows
08 56 00	Special Function Windows
08 56 19	Pass Windows
08 56 46	Radio-Frequency-Interference Shielding Windows
08 56 49	Radiation Shielding Windows
08 56 53	Security Windows
08 56 56	Security Window Screens
08 56 59	Service and Teller Window Units
08 56 73	Sound Control Windows
08 56 88	Interior Insulating Windows
08 60 00	Roof Windows and Skylights
08 61 00	Roof Windows
08 61 13	Metal Roof Windows
08 61 16	Wood Roof Windows
08 62 00	Unit Skylights
08 62 13	Domed Unit Skylights
08 62 16	Pyramidal Unit Skylights
08 62 19	Vaulted Unit Skylights
08 62 23	Tubular Skylights
08 63 00	Metal-Framed Skylights
08 63 13	Domed Metal-Framed Skylights
08 63 16	Pyramidal Metal-Framed Skylights
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08 63 19 08 63 23 08 63 53 08 64 00 08 65 00 08 65 13 08 67 00	Vaulted Metal-Framed Skylights Ridge Metal-Framed Skylights Motorized Metal-Framed Skylights Plastic-Framed Skylights Glazed Canopies Suspended Glazed Canopies Skylight Protection and Screens
08 70 00	Hardware
08 71 00	Door Hardware
08 71 13	Automatic Door Operators
08 71 53	Security Door Hardware
08 75 00	Window Hardware
08 75 13 08 75 16	Automatic Window Equipment Window Operators
08 78 00	Special Function Hardware
08 79 00	Hardware Accessories
08 79 13	Key Storage Equipment
08 80 00	Glazing
08 81 00	Glass Glazing
08 81 13	Decorative Glass Glazing
08 81 23	Exterior Glass Glazing
08 81 26	Interior Glass Glazing
08 83 00	Mirrors
08 83 13	Mirrored Glass Glazing
08 83 16	Mirrored Plastic Glazing
08 84 00	Plastic Glazing
08 84 13 08 85 00	Decorative Plastic Glazing
	Glazing Accessories
08 87 00 08 87 13	Glazing Surface Films Solar Control Films
08 87 23	Safety and Security Films
08 87 23.13	Safety Films
08 87 23.16	Security Films
08 87 26 08 87 33	Bird Control Film Decorative Films
08 88 00	Special Function Glazing
08 88 13	Fire-Resistant Glazing
08 88 19	Hurricane-Resistant Glazing
08 88 23	Cable Suspended Glazing
08 88 33	Transparent Mirrored Glazing
08 88 36 08 88 36.16	Switchable Glass Electronically Controlled Switchable Glass
08 88 39	Pressure-Resistant Glazing
08 88 49	Radiation-Resistant Glazing
08 88 53	Security Glazing
08 88 56	Ballistics-Resistant Glazing

08 90 00	Louvers and Vents
08 91 00	Louvers
08 91 13	Motorized Wall Louvers
08 91 16	Operable Wall Louvers
08 91 19	Fixed Louvers
08 91 26	Door Louvers
08 92 00	Louvered Equipment Enclosures
08 95 00	Vents
08 95 13	Soffit Vents
08 95 16	Wall Vents
08 95 33	Explosion Vents
08 95 43	Flood Vents
09 00 00	Finishes
09 01 00	Maintenance of Finishes
09 01 20	Maintenance of Plaster and Gypsum Board
09 01 20.91	Plaster Restoration
09 01 30	Maintenance of Tiling
09 01 30.91 09 01 50	Tile Restoration Maintenance of Ceilings
09 01 50.91	Ceiling Restoration
09 01 60	Maintenance of Flooring
09 01 60.91	Flooring Restoration
09 01 70	Maintenance of Wall Finishes
09 01 70.91	Wall Finish Restoration
09 01 80	Maintenance of Acoustic Treatment
09 01 90	Maintenance of Painting and Coating
09 01 90.51	Paint Cleaning
09 01 90.52 09 01 90.53	Maintenance Repainting Maintenance Coatings
09 01 90.61	Repainting
09 01 90.91	Paint Restoration
09 01 90.92	Coating Restoration
09 01 90.93	Paint Preservation
09 03 00	Conservation Treatment of Period Finishes
09 03 21	Conservation Treatment for Period Plaster Assemblies
09 03 25	Conservation Treatment for Period Plastering
09 03 25.23	Conservation Treatment for Period Lime-Based Plaster
09 03 30	Conservation Treatment for Period Tile
09 03 50 09 03 51	Conservation Treatment for Period Ceilings
09 03 51	Conservation Treatment for Period Suspended Ceilings Conservation Treatment for Textured Ceilings
09 03 56.16	Conservation Treatment for Period Metal-Panel Textured Ceilings
09 03 60	Conservation Treatment for Period Flooring
09 03 63	Conservation Treatment for Period Masonry Flooring
09 03 63.13	Conservation Treatment for Period Brick Flooring
09 03 63.40	Conservation Treatment for Period Stone Flooring
09 03 64	Conservation Treatment for Period Wood Flooring
09 03 64.29	Conservation Treatment for Period Wood Strip and Plank Flooring
09 03 65 09 03 65.16	Conservation Treatment for Period Resilient Flooring Conservation Treatment for Period Resilient Sheet Flooring

	09 03 66	Conservation Treatment for Period Terrazzo Flooring
	09 03 70	Conservation Treatment for Period Wall Finishes
	09 03 72	Conservation Treatment for Period Wall Coverings
	09 03 90	Conservation Treatment for Period Painting and Coating
	09 03 91	Conservation Treatment for Period Painted Surfaces
	09 03 91.13	Conservation Treatment for Period Exterior Painting
	09 03 91.23	Conservation Treatment for Period Interior Painting
09	05 00	Common Work Results for Finishes
	09 05 05	Selective Demolition for Finishes
	09 05 13	Common Finishes
	09 05 61	Common Work Results for Flooring Preparation
	09 05 61.13	Moisture Vapor Emission Control
	09 05 71	Acoustic Underlayment
09	06 00	Schedules for Finishes
	09 06 00.13	Room Finish Schedule
	09 06 20	Schedules for Plaster and Gypsum Board
	09 06 30	Schedules for Tiling
	09 06 50	Schedules for Ceilings
	09 06 60	Schedules for Flooring
	09 06 70	Schedules for Wall Finishes
	09 06 80	Schedules for Acoustical Treatment
	09 06 90	Schedules for Painting and Coating
	09 06 90.13	Paint Schedule
09	08 00	Commissioning of Finishes
NC	20 00	Disator and Compours Doord
U	<i>,</i> 20 00	Plaster and Gypsum Board
	20 00	Plaster and Gypsum Board Plaster and Gypsum Board Assemblies
	21 00	Plaster and Gypsum Board Assemblies
	21 00 09 21 13	Plaster and Gypsum Board Assemblies Plaster Assemblies
	21 00 09 21 13 09 21 16	Plaster and Gypsum Board Assemblies Plaster Assemblies Gypsum Board Assemblies
	21 00 09 21 13	Plaster and Gypsum Board Assemblies Plaster Assemblies Gypsum Board Assemblies Gypsum Board Shaft Wall Assemblies
09	21 00 09 21 13 09 21 16 09 21 16.23 09 21 16.33	Plaster and Gypsum Board Assemblies Plaster Assemblies Gypsum Board Assemblies Gypsum Board Shaft Wall Assemblies Gypsum Board Area Separation Wall Assemblies
09	21 00 09 21 13 09 21 16 09 21 16.23 09 21 16.33 22 00	Plaster and Gypsum Board Assemblies Plaster Assemblies Gypsum Board Assemblies Gypsum Board Shaft Wall Assemblies Gypsum Board Area Separation Wall Assemblies Supports for Plaster and Gypsum Board
09	21 00 09 21 13 09 21 16 09 21 16.23 09 21 16.33	Plaster and Gypsum Board Assemblies Plaster Assemblies Gypsum Board Assemblies Gypsum Board Shaft Wall Assemblies Gypsum Board Area Separation Wall Assemblies Supports for Plaster and Gypsum Board Metal Furring
09	21 00 09 21 13 09 21 16 09 21 16.23 09 21 16.33 22 00 09 22 13	Plaster and Gypsum Board Assemblies Plaster Assemblies Gypsum Board Assemblies Gypsum Board Shaft Wall Assemblies Gypsum Board Area Separation Wall Assemblies Supports for Plaster and Gypsum Board
09	21 00 09 21 13 09 21 16 09 21 16.23 09 21 16.33 22 00 09 22 13 09 22 13.13	Plaster and Gypsum Board Assemblies Plaster Assemblies Gypsum Board Assemblies Gypsum Board Shaft Wall Assemblies Gypsum Board Area Separation Wall Assemblies Supports for Plaster and Gypsum Board Metal Furring Metal Channel Furring
09	21 00 09 21 13 09 21 16 09 21 16.23 09 21 16.33 22 00 09 22 13 09 22 13.13 09 22 13.23	Plaster and Gypsum Board Assemblies Plaster Assemblies Gypsum Board Assemblies Gypsum Board Shaft Wall Assemblies Gypsum Board Area Separation Wall Assemblies Supports for Plaster and Gypsum Board Metal Furring Metal Channel Furring Resilient Channel Furring
09	21 00 09 21 13 09 21 16 09 21 16.23 09 21 16.33 22 00 09 22 13 09 22 13.13 09 22 13.23 09 22 16	Plaster and Gypsum Board Assemblies Plaster Assemblies Gypsum Board Assemblies Gypsum Board Shaft Wall Assemblies Gypsum Board Area Separation Wall Assemblies Supports for Plaster and Gypsum Board Metal Furring Metal Channel Furring Resilient Channel Furring Non-Structural Metal Framing Non-Structural Metal Stud Framing Suspension Systems
09	21 00 09 21 13 09 21 16 09 21 16.23 09 21 16.33 22 00 09 22 13 09 22 13.13 09 22 13.23 09 22 16 09 22 16.13 09 22 26 09 22 26.23	Plaster and Gypsum Board Assemblies Plaster Assemblies Gypsum Board Assemblies Gypsum Board Shaft Wall Assemblies Gypsum Board Area Separation Wall Assemblies Supports for Plaster and Gypsum Board Metal Furring Metal Channel Furring Resilient Channel Furring Non-Structural Metal Framing Non-Structural Metal Stud Framing Suspension Systems Metal Suspension Systems
09	21 00 09 21 13 09 21 16 09 21 16.23 09 21 16.33 22 00 09 22 13 09 22 13.13 09 22 13.23 09 22 16 09 22 16.13 09 22 26 09 22 26.23 09 22 26.33	Plaster and Gypsum Board Assemblies Plaster Assemblies Gypsum Board Assemblies Gypsum Board Shaft Wall Assemblies Gypsum Board Area Separation Wall Assemblies Supports for Plaster and Gypsum Board Metal Furring Metal Channel Furring Resilient Channel Furring Non-Structural Metal Framing Non-Structural Metal Stud Framing Suspension Systems Metal Suspension Systems Plastic Suspension Systems
09	21 00 09 21 13 09 21 16 09 21 16.23 09 21 16.33 22 00 09 22 13 09 22 13.13 09 22 13.23 09 22 16 09 22 16.13 09 22 26 09 22 26.23 09 22 26.33 09 22 36	Plaster and Gypsum Board Assemblies Plaster Assemblies Gypsum Board Assemblies Gypsum Board Shaft Wall Assemblies Gypsum Board Area Separation Wall Assemblies Supports for Plaster and Gypsum Board Metal Furring Metal Channel Furring Resilient Channel Furring Non-Structural Metal Framing Non-Structural Metal Stud Framing Suspension Systems Metal Suspension Systems Plastic Suspension Systems Lath
09	21 00 09 21 13 09 21 16 09 21 16.23 09 21 16.33 22 00 09 22 13 09 22 13.13 09 22 13.23 09 22 16 09 22 16.13 09 22 26.23 09 22 26.23 09 22 26.33 09 22 36 09 22 36.13	Plaster and Gypsum Board Assemblies Plaster Assemblies Gypsum Board Assemblies Gypsum Board Shaft Wall Assemblies Gypsum Board Area Separation Wall Assemblies Supports for Plaster and Gypsum Board Metal Furring Metal Channel Furring Resilient Channel Furring Non-Structural Metal Framing Non-Structural Metal Stud Framing Suspension Systems Metal Suspension Systems Plastic Suspension Systems Lath Gypsum Lath
09	21 00 09 21 13 09 21 16 09 21 16.23 09 21 16.33 22 00 09 22 13 09 22 13.13 09 22 13.23 09 22 16 09 22 16.13 09 22 26 09 22 26.23 09 22 26.23 09 22 36 09 22 36.13 09 22 36.23	Plaster and Gypsum Board Assemblies Plaster Assemblies Gypsum Board Assemblies Gypsum Board Shaft Wall Assemblies Gypsum Board Area Separation Wall Assemblies Supports for Plaster and Gypsum Board Metal Furring Metal Channel Furring Resilient Channel Furring Non-Structural Metal Framing Non-Structural Metal Stud Framing Suspension Systems Metal Suspension Systems Plastic Suspension Systems Lath Gypsum Lath Metal Lath
09	21 00 09 21 13 09 21 16 09 21 16.23 09 21 16.33 22 00 09 22 13 09 22 13.13 09 22 13.23 09 22 16 09 22 16.13 09 22 26 09 22 26.23 09 22 26.33 09 22 36.33 09 22 36.13 09 22 36.23 09 22 39	Plaster and Gypsum Board Assemblies Plaster Assemblies Gypsum Board Assemblies Gypsum Board Shaft Wall Assemblies Gypsum Board Area Separation Wall Assemblies Supports for Plaster and Gypsum Board Metal Furring Metal Channel Furring Resilient Channel Furring Non-Structural Metal Framing Non-Structural Metal Stud Framing Suspension Systems Metal Suspension Systems Plastic Suspension Systems Lath Gypsum Lath Metal Lath Veneer Plaster Base
09	21 00 09 21 13 09 21 16 09 21 16.23 09 21 16.33 22 00 09 22 13 09 22 13.13 09 22 13.23 09 22 16 09 22 16.13 09 22 26.23 09 22 26.33 09 22 26.33 09 22 36.13 09 22 36.13 09 22 36.23 09 22 39 23 00	Plaster and Gypsum Board Assemblies Plaster Assemblies Gypsum Board Assemblies Gypsum Board Shaft Wall Assemblies Gypsum Board Area Separation Wall Assemblies Supports for Plaster and Gypsum Board Metal Furring Metal Channel Furring Resilient Channel Furring Non-Structural Metal Framing Non-Structural Metal Stud Framing Suspension Systems Metal Suspension Systems Plastic Suspension Systems Lath Gypsum Lath Metal Lath Veneer Plaster Base Gypsum Plastering
09	21 00 09 21 13 09 21 16 09 21 16.23 09 21 16.33 22 00 09 22 13 09 22 13.13 09 22 13.23 09 22 16 09 22 16.13 09 22 26 09 22 26.23 09 22 26.23 09 22 36.3 09 22 36.13 09 22 36.23 09 22 39 23 00 09 23 13	Plaster and Gypsum Board Assemblies Plaster Assemblies Gypsum Board Assemblies Gypsum Board Shaft Wall Assemblies Gypsum Board Area Separation Wall Assemblies Supports for Plaster and Gypsum Board Metal Furring Metal Channel Furring Resilient Channel Furring Non-Structural Metal Framing Non-Structural Metal Stud Framing Suspension Systems Metal Suspension Systems Plastic Suspension Systems Lath Gypsum Lath Metal Lath Veneer Plaster Base Gypsum Plastering Acoustical Gypsum Plastering
09	21 00 09 21 13 09 21 16 09 21 16.23 09 21 16.33 22 00 09 22 13 09 22 13.13 09 22 13.23 09 22 16 09 22 16.13 09 22 26 09 22 26.23 09 22 26.23 09 22 26.33 09 22 36.13 09 22 36.23 09 22 39 23 00 09 23 13 09 23 82	Plaster and Gypsum Board Assemblies Plaster Assemblies Gypsum Board Assemblies Gypsum Board Shaft Wall Assemblies Gypsum Board Area Separation Wall Assemblies Supports for Plaster and Gypsum Board Metal Furring Metal Channel Furring Resilient Channel Furring Non-Structural Metal Framing Non-Structural Metal Stud Framing Suspension Systems Metal Suspension Systems Plastic Suspension Systems Lath Gypsum Lath Metal Lath Veneer Plaster Base Gypsum Plastering Fireproof Gypsum Plastering Fireproof Gypsum Plastering
09	21 00 09 21 13 09 21 16 09 21 16.23 09 21 16.33 22 00 09 22 13 09 22 13.13 09 22 13.23 09 22 16 09 22 16.13 09 22 26.23 09 22 26.23 09 22 26.33 09 22 36 09 22 36.13 09 22 36.13 09 22 36.23 09 22 39 23 00 09 23 13 09 23 82 24 00	Plaster and Gypsum Board Assemblies Plaster Assemblies Gypsum Board Assemblies Gypsum Board Shaft Wall Assemblies Gypsum Board Area Separation Wall Assemblies Supports for Plaster and Gypsum Board Metal Furring Metal Channel Furring Resilient Channel Furring Non-Structural Metal Framing Non-Structural Metal Stud Framing Suspension Systems Metal Suspension Systems Plastic Suspension Systems Plastic Suspension Systems Lath Gypsum Lath Metal Lath Veneer Plaster Base Gypsum Plastering Acoustical Gypsum Plastering Fireproof Gypsum Plastering Cement Plastering
09	21 00 09 21 13 09 21 16 09 21 16.23 09 21 16.33 22 00 09 22 13 09 22 13.13 09 22 13.23 09 22 16 09 22 16.13 09 22 26 09 22 26.23 09 22 26.23 09 22 26.33 09 22 36.13 09 22 36.23 09 22 39 23 00 09 23 13 09 23 82	Plaster and Gypsum Board Assemblies Plaster Assemblies Gypsum Board Assemblies Gypsum Board Shaft Wall Assemblies Gypsum Board Area Separation Wall Assemblies Supports for Plaster and Gypsum Board Metal Furring Metal Channel Furring Resilient Channel Furring Non-Structural Metal Framing Non-Structural Metal Stud Framing Suspension Systems Metal Suspension Systems Plastic Suspension Systems Lath Gypsum Lath Metal Lath Veneer Plaster Base Gypsum Plastering Fireproof Gypsum Plastering Fireproof Gypsum Plastering

09 24 33	Cement Parging
09 25 00	Other Plastering
09 25 13	Acrylic Plastering
09 25 13.13	Acrylic Plaster Finish
09 25 23	Lime Based Plastering
09 25 26	Natural Clay Plastering
09 26 00	Veneer Plastering
09 26 13	Gypsum Veneer Plastering
09 27 00	Plaster Fabrications
09 27 13	Glass-Fiber-Reinforced Gypsum Fabrications
09 27 23	Simulated Plaster Fabrications
09 28 00	Backing Boards and Underlayments
09 28 13	Cementitious Backing Boards
09 28 16	Glass-Mat Faced Gypsum Backing Boards
09 28 19	Fibered Gypsum Backing Boards
09 29 00	Gypsum Board
09 29 82	Gypsum Board Fireproofing
09 30 00	Tiling
09 30 13	Ceramic Tiling
09 30 16	Quarry Tiling
09 30 19	Paver Tiling
09 30 23	Glass Mosaic Tiling
09 30 26	Plastic Tiling
09 30 29	Metal Tiling
09 30 33	Stone Tiling
09 30 36	Concrete Tiling
09 30 39	Brick Tiling
09 31 00	Thin-Set Tiling
09 31 13	Thin-Set Ceramic Tiling
09 31 16	Thin-Set Quarry Tiling
09 31 19	Thin-Set Paver Tiling
09 31 23	Thin-Set Glass Mosaic Tiling
09 31 26	Thin-Set Plastic Tiling
09 31 29	Thin-Set Metal Tiling
09 31 33	Thin-Set Stone Tiling
09 31 36	Thin-Set Concrete Tiling
09 32 00	Mortar-Bed Tiling
09 32 13	Mortar-Bed Ceramic Tiling
09 32 16	Mortar-Bed Quarry Tiling
09 32 19	Mortar-Bed Paver Tiling
09 32 23	Mortar-Bed Glass Mosaic Tiling
09 32 26	Mortar-Bed Plastic Tiling
09 32 29	Mortar-Bed Metal Tiling
09 32 33	Mortar-Bed Stone Tiling
09 32 36	Mortar-Bed Concrete Tiling
09 33 00	Conductive Tiling
09 33 13	Conductive Ceramic Tiling
09 33 16	Conductive Quarry Tiling

	09 33 19	Conductive Paver Tiling
	09 33 23	Conductive Glass Mosaic Tiling
	09 33 26	Conductive Plastic Tiling
	09 33 29	Conductive Metal Tiling
	09 33 33	Conductive Stone Tiling
	09 33 36	Conductive Concrete Tiling
09	34 00	Waterproofing-Membrane Tiling
	09 34 13	Waterproofing-Membrane Ceramic Tiling
	09 34 16	Waterproofing-Membrane Quarry Tiling
	09 34 19	Waterproofing-Membrane Paver Tiling
	09 34 23	Waterproofing-Membrane Glass Mosaic Tiling
	09 34 26	Waterproofing-Membrane Plastic Tiling
	09 34 29	Waterproofing-Membrane Metal Tiling
	09 34 33	Waterproofing-Membrane Stone Tiling
	09 34 36	Waterproofing-Membrane Concrete Tiling
09	35 00	Chemical-Resistant Tiling
	09 35 13	Chemical-Resistant Ceramic Tiling
	09 35 16	Chemical-Resistant Quarry Tiling
	09 35 19	Chemical-Resistant Paver Tiling
	09 35 23	Chemical-Resistant Glass Mosaic Tiling
	09 35 26	Chemical-Resistant Plastic Tiling
	09 35 29	Chemical-Resistant Metal Tiling
	09 35 33	Chemical-Resistant Stone Tiling
	09 35 36	Chemical-Resistant Concrete Tiling
ΛQ	50 00	Ceilings
09	51 00	Acoustical Ceilings
	09 51 13	Acoustical Panel Ceilings
	09 51 14	Acoustical Fabric-Faced Panel Ceilings
	09 51 23	Acoustical Tile Ceilings
	09 51 26	Acoustical Wood Ceilings
	09 51 33	Acoustical Metal Pan Ceilings
	09 51 33.13	Acoustical Snap-in Metal Pan Ceilings
	09 51 53	Direct-Applied Acoustical Ceilings
09	53 00	Acoustical Ceiling Suspension Assemblies
	09 53 13	Curved Profile Ceiling Suspension Assemblies
	09 53 23	Metal Acoustical Ceiling Suspension Assemblies
	09 53 33	Plastic Acoustical Ceiling Suspension Assemblies
09	54 00	Specialty Ceilings
	09 54 13	Open Metal Mesh Ceilings
	09 54 16	Luminous Ceilings
	09 54 19	Mirror Panel Ceilings
	09 54 23	Linear Metal Ceilings
	09 54 26	Suspended Wood Ceilings
	09 54 29	Suspended Plastic Ceilings
	09 54 33	Decorative Panel Ceilings
	09 54 36	Suspended Decorative Grids
	09 54 43	Stretched-Fabric Ceiling Systems
	09 54 46	Fabric-Wrapped Ceiling Panels
	09 54 53	Fiberglass Reinforced Panel Ceilings

09 56 00	Textured Ceilings
09 56 13	Gypsum-Panel Textured Ceilings
09 56 16	Metal-Panel Textured Ceilings
09 57 00	Special Function Ceilings
09 57 53	Security Ceiling Assemblies
09 58 00	Integrated Ceiling Assemblies
09 60 00	Flooring
09 61 00	Flooring Treatment
09 61 13	Slip-Resistant Flooring Treatment
09 61 19	Concrete Floor Staining
09 61 36	Static-Resistant Flooring Treatment
09 62 00	Specialty Flooring
09 62 13	Asphaltic Plank Flooring
09 62 19	Laminate Flooring
09 62 23	Bamboo Flooring
09 62 26	Leather Flooring
09 62 29	Cork Flooring
09 62 35	Acid-Resistant Flooring
09 62 48	Acoustic Flooring
09 62 53	Synthetic Turf Flooring
09 62 63	Metal Flooring
09 62 63.13	Aluminum Flooring
09 62 63.16	Stainless Steel Flooring
09 62 83	Structural Glass Flooring
09 63 00	Masonry Flooring
09 63 13	Brick Flooring
09 63 13.35 09 63 40	Chemical-Resistant Brick Flooring
09 63 43	Stone Flooring Composition Stone Flooring
09 64 00	Wood Flooring
09 64 16 09 64 19	Wood Block Flooring
09 64 23	Wood Composition Flooring Wood Parquet Flooring
09 64 23.13	Acrylic-Impregnated Wood Parquet Flooring
09 64 29	Wood Strip and Plank Flooring
09 64 33	Laminated Wood Flooring
09 64 53	Resilient Wood Flooring Assemblies
09 64 66	Wood Athletic Flooring
09 65 00	Resilient Flooring
09 65 13	Resilient Base and Accessories
09 65 13.13	Resilient Base
09 65 13.23	Resilient Stair Treads and Risers
09 65 13.26	Resilient Stair Nosings
09 65 13.33	Resilient Accessories
09 65 13.36 09 65 16	Resilient Carpet Transitions Resilient Sheet Flooring
09 65 16.23	Resilient Sheet Flooring Vinyl Sheet Flooring
09 65 16.33	Rubber Sheet Flooring
09 65 16.43	PVC-Free Sheet Flooring

09 65 19 09 65 19.19 09 65 19.23 09 65 19.33 09 65 19.43 09 65 33 09 65 36 09 65 36.13 09 65 36.16 09 65 43 09 65 66	Resilient Tile Flooring Vinyl Composition Tile Flooring Vinyl Tile Flooring Rubber Tile Flooring Polyester Composition Tile Flooring Conductive Resilient Flooring Static-Control Resilient Flooring Static-Dissipative Resilient Flooring Static-Resistant Resilient Flooring Linoleum Flooring Resilient Athletic Flooring
09 66 00	Terrazzo Flooring
09 66 13 09 66 13.13 09 66 13.16 09 66 13.23 09 66 13.26 09 66 13.33 09 66 16.13 09 66 16.16 09 66 23 09 66 23.13 09 66 23.16 09 66 33	Portland Cement Terrazzo Flooring Sand Cushion Terrazzo Flooring Monolithic Terrazzo Flooring Bonded Terrazzo Flooring Palladina Terrazzo Flooring Rustic Terrazzo Flooring Structural Terrazzo Flooring Terrazzo Floor Tile Portland Cement Terrazzo Floor Tile Plastic-Matrix Terrazzo Floor Tile Resinous Matrix Terrazzo Flooring Polyacrylate Modified Cementitious Terrazzo Flooring Epoxy-Resin Terrazzo Flooring Polyester-Resin Terrazzo Flooring Conductive Terrazzo Flooring
09 66 33.13 09 66 33.16	Conductive Epoxy-Resin Terrazzo Conductive Polyester-Resin Terrazzo Flooring
09 66 33.19	Conductive Polyester-Resili Terrazzo Plooring Conductive Plastic-Matrix Terrazzo Flooring
09 67 00	Fluid-Applied Flooring
09 67 13 09 67 13.33 09 67 16 09 67 19 09 67 23 09 67 26 09 67 66	Elastomeric Liquid Flooring Conductive Elastomeric Liquid Flooring Epoxy-Marble Chip Flooring Magnesium-Oxychloride Flooring Resinous Flooring Quartz Flooring Fluid-Applied Athletic Flooring
09 68 00	Carpeting
09 68 13	Tile Carpeting
09 68 16	Sheet Carpeting
09 69 00 09 69 13 09 69 16 09 69 19 09 69 33 09 69 53 09 69 56 09 70 00	Access Flooring Rigid-Grid Access Flooring Snap-on Stringer Access Flooring Stringerless Access Flooring Low-Profile Fixed Height Access Flooring Access Flooring Accessories Access Flooring Stairs and Stringers Wall Finishes
09 72 00	
09 72 00	Wall Coverings
031213	Cork Wall Coverings

09 72 16 09 72 16.13 09 72 16.16 09 72 19 09 72 23 09 73 00	Vinyl-Coated Fabric Wall Coverings Flexible Vinyl Wall Coverings Rigid-Sheet Vinyl Wall Coverings Textile Wall Coverings Wallpapering Wall Carpeting
09 74 00 09 74 13	Flexible Wood Sheets Wood Wall Coverings
09 74 16	Flexible Wood Veneers
09 75 00 09 75 13	Stone Facing
09 75 13	Stone Wall Facing Stone Trim
09 75 19.13	Stone Base
09 75 19.23	Stone Window Stools
09 75 23	Simulated Stone Wall Facing
09 76 00	Plastic Blocks
09 77 00	Special Wall Surfacing
09 77 13	Stretched-Fabric Wall Systems
09 77 23 09 77 33	Fabric-Wrapped Panels Terrazzo Wall Finish
09 77 53	Vegetated Wall Systems
09 78 00	Interior Wall Paneling
09 78 13	Metal Interior Wall Paneling
09 78 16	Stone-Faced Interior Wall Paneling
09 78 19	Cementitious Interior Wall Paneling
09 78 19 09 78 23	
	Cementitious Interior Wall Paneling
09 78 23	Cementitious Interior Wall Paneling Phenolic Interior Wall Paneling Acoustic Treatment
09 78 23 09 80 00	Cementitious Interior Wall Paneling Phenolic Interior Wall Paneling
09 78 23 09 80 00 09 81 00 09 81 13 09 81 16	Cementitious Interior Wall Paneling Phenolic Interior Wall Paneling Acoustic Treatment Acoustic Insulation
09 78 23 09 80 00 09 81 00 09 81 13 09 81 16 09 81 29	Cementitious Interior Wall Paneling Phenolic Interior Wall Paneling Acoustic Treatment Acoustic Insulation Acoustic Board Insulation Acoustic Blanket Insulation Sprayed Acoustic Insulation
09 78 23 09 80 00 09 81 00 09 81 13 09 81 16 09 81 29 09 83 00	Cementitious Interior Wall Paneling Phenolic Interior Wall Paneling Acoustic Treatment Acoustic Insulation Acoustic Board Insulation Acoustic Blanket Insulation Sprayed Acoustic Insulation Acoustic Finishes
09 78 23 09 80 00 09 81 00 09 81 13 09 81 16 09 81 29 09 83 00 09 83 13	Cementitious Interior Wall Paneling Phenolic Interior Wall Paneling Acoustic Treatment Acoustic Insulation Acoustic Board Insulation Acoustic Blanket Insulation Sprayed Acoustic Insulation Acoustic Finishes Acoustic Wall Coating
09 78 23 09 80 00 09 81 00 09 81 13 09 81 16 09 81 29 09 83 00 09 83 13 09 83 16	Cementitious Interior Wall Paneling Phenolic Interior Wall Paneling Acoustic Treatment Acoustic Insulation Acoustic Board Insulation Acoustic Blanket Insulation Sprayed Acoustic Insulation Acoustic Finishes Acoustic Wall Coating Acoustic Ceiling Coating
09 78 23 09 80 00 09 81 00 09 81 13 09 81 16 09 81 29 09 83 00 09 83 13 09 83 16 09 83 22	Cementitious Interior Wall Paneling Phenolic Interior Wall Paneling Acoustic Treatment Acoustic Insulation Acoustic Board Insulation Acoustic Blanket Insulation Sprayed Acoustic Insulation Acoustic Finishes Acoustic Wall Coating Acoustic Ceiling Coating Acoustic Drapery
09 78 23 09 80 00 09 81 00 09 81 13 09 81 16 09 81 29 09 83 00 09 83 13 09 83 16 09 83 22 09 84 00	Cementitious Interior Wall Paneling Phenolic Interior Wall Paneling Acoustic Treatment Acoustic Insulation Acoustic Board Insulation Acoustic Blanket Insulation Sprayed Acoustic Insulation Acoustic Finishes Acoustic Wall Coating Acoustic Ceiling Coating Acoustic Drapery Acoustic Room Components
09 78 23 09 80 00 09 81 00 09 81 13 09 81 16 09 81 29 09 83 00 09 83 13 09 83 16 09 83 22	Cementitious Interior Wall Paneling Phenolic Interior Wall Paneling Acoustic Treatment Acoustic Insulation Acoustic Board Insulation Acoustic Blanket Insulation Sprayed Acoustic Insulation Acoustic Finishes Acoustic Wall Coating Acoustic Ceiling Coating Acoustic Drapery Acoustic Room Components Fixed Sound-Absorptive Panels
09 78 23 09 80 00 09 81 00 09 81 13 09 81 16 09 81 29 09 83 00 09 83 13 09 83 16 09 83 22 09 84 00 09 84 13	Cementitious Interior Wall Paneling Phenolic Interior Wall Paneling Acoustic Treatment Acoustic Insulation Acoustic Board Insulation Acoustic Blanket Insulation Sprayed Acoustic Insulation Acoustic Finishes Acoustic Wall Coating Acoustic Ceiling Coating Acoustic Drapery Acoustic Room Components
09 78 23 09 80 00 09 81 00 09 81 13 09 81 16 09 81 29 09 83 00 09 83 13 09 83 16 09 83 16 09 83 22 09 84 00 09 84 13 09 84 14 09 84 16 09 84 23	Cementitious Interior Wall Paneling Phenolic Interior Wall Paneling Acoustic Treatment Acoustic Insulation Acoustic Board Insulation Acoustic Blanket Insulation Sprayed Acoustic Insulation Acoustic Finishes Acoustic Wall Coating Acoustic Ceiling Coating Acoustic Drapery Acoustic Room Components Fixed Sound-Absorptive Panels Acoustic Stretched-Fabric Wall Systems Fixed Sound-Reflective Panels Moveable Sound-Absorptive Panels
09 78 23 09 80 00 09 81 00 09 81 13 09 81 16 09 81 29 09 83 00 09 83 13 09 83 16 09 83 22 09 84 00 09 84 13 09 84 14 09 84 16 09 84 23 09 84 26	Cementitious Interior Wall Paneling Phenolic Interior Wall Paneling Acoustic Treatment Acoustic Insulation Acoustic Board Insulation Acoustic Blanket Insulation Sprayed Acoustic Insulation Acoustic Finishes Acoustic Wall Coating Acoustic Ceiling Coating Acoustic Drapery Acoustic Room Components Fixed Sound-Absorptive Panels Acoustic Stretched-Fabric Wall Systems Fixed Sound-Reflective Panels Moveable Sound-Reflective Panels
09 78 23 09 80 00 09 81 00 09 81 13 09 81 16 09 81 29 09 83 00 09 83 13 09 83 16 09 83 22 09 84 00 09 84 13 09 84 14 09 84 16 09 84 23 09 84 26 09 84 33	Cementitious Interior Wall Paneling Phenolic Interior Wall Paneling Acoustic Treatment Acoustic Insulation Acoustic Board Insulation Acoustic Blanket Insulation Sprayed Acoustic Insulation Acoustic Finishes Acoustic Wall Coating Acoustic Ceiling Coating Acoustic Drapery Acoustic Room Components Fixed Sound-Absorptive Panels Acoustic Stretched-Fabric Wall Systems Fixed Sound-Reflective Panels Moveable Sound-Reflective Panels Sound-Absorbing Wall Units
09 78 23 09 80 00 09 81 00 09 81 13 09 81 16 09 81 29 09 83 00 09 83 13 09 83 16 09 83 22 09 84 00 09 84 13 09 84 14 09 84 16 09 84 23 09 84 26 09 84 33 09 84 36	Cementitious Interior Wall Paneling Phenolic Interior Wall Paneling Acoustic Treatment Acoustic Insulation Acoustic Board Insulation Acoustic Blanket Insulation Sprayed Acoustic Insulation Acoustic Finishes Acoustic Wall Coating Acoustic Ceiling Coating Acoustic Drapery Acoustic Room Components Fixed Sound-Absorptive Panels Acoustic Stretched-Fabric Wall Systems Fixed Sound-Reflective Panels Moveable Sound-Absorptive Panels Sound-Absorbing Wall Units Sound-Absorbing Ceiling Units
09 78 23 09 80 00 09 81 00 09 81 13 09 81 16 09 81 29 09 83 00 09 83 13 09 83 16 09 83 22 09 84 00 09 84 13 09 84 14 09 84 16 09 84 23 09 84 23 09 84 23 09 84 33 09 84 36 09 90 00	Cementitious Interior Wall Paneling Phenolic Interior Wall Paneling Acoustic Treatment Acoustic Insulation Acoustic Board Insulation Acoustic Blanket Insulation Sprayed Acoustic Insulation Acoustic Finishes Acoustic Wall Coating Acoustic Ceiling Coating Acoustic Drapery Acoustic Room Components Fixed Sound-Absorptive Panels Acoustic Stretched-Fabric Wall Systems Fixed Sound-Reflective Panels Moveable Sound-Absorptive Panels Moveable Sound-Reflective Panels Sound-Absorbing Wall Units Sound-Absorbing Ceiling Units Painting and Coating
09 78 23 09 80 00 09 81 00 09 81 13 09 81 16 09 81 29 09 83 00 09 83 13 09 83 16 09 83 22 09 84 00 09 84 13 09 84 14 09 84 14 09 84 23 09 84 23 09 84 26 09 84 33 09 84 36 09 90 00 09 91 00	Cementitious Interior Wall Paneling Phenolic Interior Wall Paneling Acoustic Treatment Acoustic Insulation Acoustic Board Insulation Acoustic Blanket Insulation Sprayed Acoustic Insulation Acoustic Finishes Acoustic Wall Coating Acoustic Ceiling Coating Acoustic Drapery Acoustic Room Components Fixed Sound-Absorptive Panels Acoustic Stretched-Fabric Wall Systems Fixed Sound-Reflective Panels Moveable Sound-Absorptive Panels Moveable Sound-Reflective Panels Sound-Absorbing Wall Units Sound-Absorbing Ceiling Units Painting and Coating Painting
09 78 23 09 80 00 09 81 00 09 81 13 09 81 16 09 81 29 09 83 00 09 83 13 09 83 16 09 83 22 09 84 00 09 84 13 09 84 14 09 84 16 09 84 23 09 84 23 09 84 23 09 84 33 09 84 36 09 90 00	Cementitious Interior Wall Paneling Phenolic Interior Wall Paneling Acoustic Treatment Acoustic Insulation Acoustic Board Insulation Acoustic Blanket Insulation Sprayed Acoustic Insulation Acoustic Finishes Acoustic Wall Coating Acoustic Ceiling Coating Acoustic Drapery Acoustic Room Components Fixed Sound-Absorptive Panels Acoustic Stretched-Fabric Wall Systems Fixed Sound-Reflective Panels Moveable Sound-Absorptive Panels Moveable Sound-Reflective Panels Sound-Absorbing Wall Units Sound-Absorbing Ceiling Units Painting and Coating

09 93 00	Staining and Transparent Finishing
09 93 13	Exterior Staining and Finishing
09 93 13.13	Exterior Staining and Finishing
09 93 13.53	Exterior Finishing
09 93 23	Interior Staining and Finishing
09 93 23.13	Interior Staining
09 93 23.53	Interior Finishing
09 94 00	Decorative Finishing
09 94 13	Textured Finishing
09 94 16	Faux Finishing
09 94 19	Multicolor Interior Finishing
09 94 23	Gilding
09 96 00	High-Performance Coatings
09 96 13	Abrasion-Resistant Coatings
09 96 23	Graffiti-Resistant Coatings
09 96 26	Marine Coatings
09 96 33	High-Temperature-Resistant Coatings
09 96 35	Chemical-Resistant Coatings
09 96 43	Fire-Retardant Coatings
09 96 46	Intumescent Painting
09 96 53	Elastomeric Coatings
09 96 56	Epoxy Coatings
09 96 59 09 96 63	High-Build Glazed Coatings Textured Plastic Coatings
09 96 66	Aggregate Wall Coatings
00 07 00	Spacial Coatings
09 97 00	Special Coatings
09 97 13	Steel Coatings
09 97 13 09 97 13.13	Steel Coatings Interior Steel Coatings
09 97 13	Steel Coatings
09 97 13 09 97 13.13 09 97 13.23	Steel Coatings Interior Steel Coatings Exterior Steel Coatings Steel Water Storage Tank Painting Concrete and Masonry Coatings
09 97 13 09 97 13.13 09 97 13.23 09 97 13.24 09 97 23 09 97 23.24	Steel Coatings Interior Steel Coatings Exterior Steel Coatings Steel Water Storage Tank Painting Concrete and Masonry Coatings Concrete Water Storage Tank Painting
09 97 13 09 97 13.13 09 97 13.23 09 97 13.24 09 97 23 09 97 23.24 09 97 26	Steel Coatings Interior Steel Coatings Exterior Steel Coatings Steel Water Storage Tank Painting Concrete and Masonry Coatings Concrete Water Storage Tank Painting Cementitious Coatings
09 97 13 09 97 13.13 09 97 13.23 09 97 13.24 09 97 23 09 97 23.24 09 97 26 09 97 26.13	Steel Coatings Interior Steel Coatings Exterior Steel Coatings Steel Water Storage Tank Painting Concrete and Masonry Coatings Concrete Water Storage Tank Painting Cementitious Coatings Interior Cementitious Coatings
09 97 13 09 97 13.13 09 97 13.23 09 97 13.24 09 97 23 09 97 23.24 09 97 26 09 97 26.13 09 97 26.23	Steel Coatings Interior Steel Coatings Exterior Steel Coatings Steel Water Storage Tank Painting Concrete and Masonry Coatings Concrete Water Storage Tank Painting Cementitious Coatings Interior Cementitious Coatings Exterior Cementitious Coatings
09 97 13 09 97 13.13 09 97 13.23 09 97 13.24 09 97 23 09 97 23.24 09 97 26 09 97 26.13 09 97 26.23 09 97 35	Steel Coatings Interior Steel Coatings Exterior Steel Coatings Steel Water Storage Tank Painting Concrete and Masonry Coatings Concrete Water Storage Tank Painting Cementitious Coatings Interior Cementitious Coatings Exterior Cementitious Coatings Dry Erase Coatings
09 97 13 09 97 13.13 09 97 13.23 09 97 13.24 09 97 23 09 97 23.24 09 97 26 09 97 26.13 09 97 26.23	Steel Coatings Interior Steel Coatings Exterior Steel Coatings Steel Water Storage Tank Painting Concrete and Masonry Coatings Concrete Water Storage Tank Painting Cementitious Coatings Interior Cementitious Coatings Exterior Cementitious Coatings
09 97 13 09 97 13.13 09 97 13.23 09 97 13.24 09 97 23 09 97 23.24 09 97 26 09 97 26.13 09 97 26.23 09 97 35	Steel Coatings Interior Steel Coatings Exterior Steel Coatings Steel Water Storage Tank Painting Concrete and Masonry Coatings Concrete Water Storage Tank Painting Cementitious Coatings Interior Cementitious Coatings Exterior Cementitious Coatings Dry Erase Coatings Specialties
09 97 13 09 97 13.13 09 97 13.23 09 97 13.24 09 97 23 09 97 23.24 09 97 26 09 97 26.13 09 97 26.23 09 97 35 10 00 00	Steel Coatings Interior Steel Coatings Exterior Steel Coatings Steel Water Storage Tank Painting Concrete and Masonry Coatings Concrete Water Storage Tank Painting Cementitious Coatings Interior Cementitious Coatings Exterior Cementitious Coatings Dry Erase Coatings Specialties Operation and Maintenance of Specialties
09 97 13 09 97 13.13 09 97 13.23 09 97 13.24 09 97 23 09 97 23.24 09 97 26.13 09 97 26.13 09 97 26.23 09 97 35 10 00 00 10 01 00	Steel Coatings Interior Steel Coatings Exterior Steel Coatings Steel Water Storage Tank Painting Concrete and Masonry Coatings Concrete Water Storage Tank Painting Cementitious Coatings Interior Cementitious Coatings Exterior Cementitious Coatings Dry Erase Coatings Specialties
09 97 13 09 97 13.13 09 97 13.23 09 97 13.24 09 97 23 09 97 23.24 09 97 26.13 09 97 26.13 09 97 26.23 09 97 35 10 00 00 10 01 00	Steel Coatings Interior Steel Coatings Exterior Steel Coatings Steel Water Storage Tank Painting Concrete and Masonry Coatings Concrete Water Storage Tank Painting Cementitious Coatings Interior Cementitious Coatings Exterior Cementitious Coatings Dry Erase Coatings Specialties Operation and Maintenance of Specialties Operation and Maintenance of Information Specialties
09 97 13 09 97 13.13 09 97 13.23 09 97 13.24 09 97 23 09 97 23.24 09 97 26.13 09 97 26.23 09 97 26.23 09 97 35 10 00 00 10 01 00 10 01 10 10 01 20	Steel Coatings Interior Steel Coatings Exterior Steel Coatings Steel Water Storage Tank Painting Concrete and Masonry Coatings Concrete Water Storage Tank Painting Cementitious Coatings Interior Cementitious Coatings Exterior Cementitious Coatings Dry Erase Coatings Specialties Operation and Maintenance of Specialties Operation and Maintenance of Information Specialties Operation and Maintenance of Interior Specialties
09 97 13 09 97 13.13 09 97 13.23 09 97 13.24 09 97 23 09 97 23.24 09 97 26.13 09 97 26.13 09 97 26.23 09 97 35 10 00 00 10 01 00 10 01 10 10 01 20 10 01 30 10 01 40 10 01 50	Steel Coatings Interior Steel Coatings Exterior Steel Coatings Steel Water Storage Tank Painting Concrete and Masonry Coatings Concrete Water Storage Tank Painting Cementitious Coatings Interior Cementitious Coatings Exterior Cementitious Coatings Dry Erase Coatings Specialties Operation and Maintenance of Specialties Operation and Maintenance of Information Specialties Operation and Maintenance of Interior Specialties Operation and Maintenance of Fireplaces and Stoves
09 97 13 09 97 13.13 09 97 13.23 09 97 13.24 09 97 23 09 97 23.24 09 97 26.13 09 97 26.13 09 97 26.23 09 97 35 10 00 00 10 01 00 10 01 10 10 01 20 10 01 30 10 01 40 10 01 50 10 01 70	Steel Coatings Interior Steel Coatings Exterior Steel Coatings Steel Water Storage Tank Painting Concrete and Masonry Coatings Concrete Water Storage Tank Painting Cementitious Coatings Interior Cementitious Coatings Exterior Cementitious Coatings Dry Erase Coatings Specialties Operation and Maintenance of Specialties Operation and Maintenance of Information Specialties Operation and Maintenance of Interior Specialties Operation and Maintenance of Fireplaces and Stoves Operation and Maintenance of Safety Specialties Operation and Maintenance of Storage Specialties Operation and Maintenance of Exterior Specialties
09 97 13 09 97 13.13 09 97 13.23 09 97 13.24 09 97 23 09 97 23.24 09 97 26.13 09 97 26.13 09 97 26.23 09 97 35 10 00 00 10 01 00 10 01 10 10 01 20 10 01 30 10 01 40 10 01 50 10 01 70 10 01 80	Steel Coatings Interior Steel Coatings Exterior Steel Coatings Steel Water Storage Tank Painting Concrete and Masonry Coatings Concrete Water Storage Tank Painting Cementitious Coatings Interior Cementitious Coatings Exterior Cementitious Coatings Dry Erase Coatings Specialties Operation and Maintenance of Specialties Operation and Maintenance of Information Specialties Operation and Maintenance of Interior Specialties Operation and Maintenance of Fireplaces and Stoves Operation and Maintenance of Safety Specialties Operation and Maintenance of Storage Specialties Operation and Maintenance of Exterior Specialties Operation and Maintenance of Other Specialties
09 97 13 09 97 13.13 09 97 13.23 09 97 13.24 09 97 23 09 97 23.24 09 97 26.13 09 97 26.13 09 97 26.23 09 97 35 10 00 00 10 01 00 10 01 10 10 01 20 10 01 30 10 01 40 10 01 50 10 01 70	Steel Coatings Interior Steel Coatings Exterior Steel Coatings Steel Water Storage Tank Painting Concrete and Masonry Coatings Concrete Water Storage Tank Painting Cementitious Coatings Interior Cementitious Coatings Exterior Cementitious Coatings Dry Erase Coatings Specialties Operation and Maintenance of Specialties Operation and Maintenance of Information Specialties Operation and Maintenance of Interior Specialties Operation and Maintenance of Fireplaces and Stoves Operation and Maintenance of Safety Specialties Operation and Maintenance of Storage Specialties Operation and Maintenance of Exterior Specialties
09 97 13 09 97 13.13 09 97 13.23 09 97 13.24 09 97 23 09 97 23.24 09 97 26.13 09 97 26.13 09 97 26.23 09 97 35 10 00 00 10 01 00 10 01 10 10 01 20 10 01 30 10 01 40 10 01 50 10 01 70 10 01 80	Steel Coatings Interior Steel Coatings Exterior Steel Coatings Steel Water Storage Tank Painting Concrete and Masonry Coatings Concrete Water Storage Tank Painting Cementitious Coatings Interior Cementitious Coatings Exterior Cementitious Coatings Dry Erase Coatings Specialties Operation and Maintenance of Specialties Operation and Maintenance of Information Specialties Operation and Maintenance of Interior Specialties Operation and Maintenance of Fireplaces and Stoves Operation and Maintenance of Safety Specialties Operation and Maintenance of Storage Specialties Operation and Maintenance of Exterior Specialties Operation and Maintenance of Other Specialties
09 97 13 09 97 13.13 09 97 13.23 09 97 13.24 09 97 23 09 97 23.24 09 97 26.13 09 97 26.13 09 97 35 10 00 00 10 01 10 10 01 20 10 01 30 10 01 30 10 01 40 10 01 50 10 01 70 10 01 80 10 05 00	Steel Coatings Interior Steel Coatings Exterior Steel Coatings Steel Water Storage Tank Painting Concrete and Masonry Coatings Concrete Water Storage Tank Painting Cementitious Coatings Interior Cementitious Coatings Exterior Cementitious Coatings Dry Erase Coatings Specialties Operation and Maintenance of Specialties Operation and Maintenance of Information Specialties Operation and Maintenance of Interior Specialties Operation and Maintenance of Fireplaces and Stoves Operation and Maintenance of Safety Specialties Operation and Maintenance of Storage Specialties Operation and Maintenance of Exterior Specialties Operation and Maintenance of Other Specialties Operation and Maintenance of Other Specialties Common Work Results for Specialties
09 97 13 09 97 13.13 09 97 13.23 09 97 13.24 09 97 23 09 97 23.24 09 97 26.13 09 97 26.13 09 97 26.23 09 97 35 10 00 00 10 01 00 10 01 10 10 01 20 10 01 30 10 01 30 10 01 40 10 01 50 10 01 70 10 01 80 10 05 00 10 05 05	Steel Coatings Interior Steel Coatings Exterior Steel Coatings Steel Water Storage Tank Painting Concrete and Masonry Coatings Concrete Water Storage Tank Painting Cementitious Coatings Interior Cementitious Coatings Exterior Cementitious Coatings Dry Erase Coatings Specialties Operation and Maintenance of Specialties Operation and Maintenance of Information Specialties Operation and Maintenance of Interior Specialties Operation and Maintenance of Fireplaces and Stoves Operation and Maintenance of Safety Specialties Operation and Maintenance of Storage Specialties Operation and Maintenance of Exterior Specialties Operation and Maintenance of Other Specialties Operation and Maintenance of Other Specialties Common Work Results for Specialties Selective Demolition for Specialties

10 06 10.13 10 06 10.16 10 06 20 10 06 20.13 10 06 30 10 06 40 10 06 50 10 06 70 10 06 80	Exterior Signage Schedule Interior Signage Schedule Schedules for Interior Specialties Toilet, Bath, and Laundry Accessory Schedule Schedules for Fireplaces and Stoves Schedules for Safety Specialties Schedules for Storage Specialties Schedules for Exterior Specialties Schedules for Other Specialties Commissioning of Specialties
10 10 00	Information Specialties
10 10 00	Visual Display Units
10 11 13 10 11 13.13 10 11 13.23 10 11 13.33 10 11 13.43 10 11 16.13 10 11 16.23 10 11 16.33 10 11 16.33 10 11 16.53 10 11 16.53 10 11 23.13 10 11 23.13 10 11 23.23 10 11 23.33 10 11 23.43 10 11 33.13 10 11 33.13 10 11 33.13 10 11 33.13 10 11 36 10 11 39 10 11 43 10 11 43 10 11 46	Chalkboards Fixed Chalkboards Modular-Support-Mounted Chalkboards Rail-Mounted Chalkboards Portable Chalkboards Markerboards Fixed Markerboards Modular-Support-Mounted Markerboards Rail-Mounted Markerboards Portable Markerboards Portable Markerboards Electronic Markerboards Tackboards Fixed Tackboards Modular-Support-Mounted Tackboards Rail-Mounted Tackboards Rail-Mounted Tackboards Portable Tackboards Sliding Visual Display Units Horizontal-Sliding Visual Display Units Vertical-Sliding Visual Display Units Visual Display Conference Units Visual Display Rails Visual Display Wall Panels Visual Display Fabrics
10 11 46 10 12 00	Display Cases
10 13 00	Directories
10 13 13 10 13 23 10 14 00	Electronic Directories Illuminated Directories Signage
10 14 16	Plaques
10 14 19 10 14 23 10 14 23.13 10 14 26 10 14 33 10 14 43 10 14 53 10 14 53.13 10 14 63 10 14 64	Dimensional Letter Signage Panel Signage Engraved Panel Signage Post and Panel/Pylon Signage Illuminated Panel Signage Photoluminescent Signage Traffic Signage Transportation Reference Markers Electronic Message Signage Audible Signage

10 14 66	Floating Signage
10 14 67	Tactile Signage
10 17 00	Telephone Specialties
10 17 13	Telephone Directory Units
10 17 16	Telephone Enclosures
10 17 16.13 10 17 16.16	Telephone Stalls Telephone Alcoves
10 17 10.10	Telephone Shelving
10 18 00	Informational Kiosks
10 20 00	Interior Specialties
10 21 00	Compartments and Cubicles
10 21 13	Toilet Compartments
10 21 13.13	Metal Toilet Compartments
10 21 13.14	Stainless-Steel Toilet Compartments
10 21 13.16	Plastic-Laminate-Clad Toilet Compartments
10 21 13.17	Phenolic-Core Toilet Compartments
10 21 13.19	Plastic Toilet Compartments
10 21 13.23 10 21 13.40	Particleboard Toilet Compartments Stone Toilet Compartments
10 21 16	Shower and Dressing Compartments
10 21 16.13	Metal Shower and Dressing Compartments
10 21 16.14	Stainless-Steel Shower and Dressing Compartments
10 21 16.16	Plastic-Laminate-Clad Shower and Dressing Compartments
10 21 16.17	Phenolic-Core Shower and Dressing Compartments
10 21 16.19	Plastic Shower and Dressing Compartments
10 21 16.23	Particleboard Shower and Dressing Compartments
10 21 16.40 10 21 23	Stone Shower and Dressing Compartments Cubicle Curtains and Track
10 21 23.13	Cubicle Curtains and Track Cubicle Curtains
10 21 23.16	Cubicle Track and Hardware
10 21 26	Room Darkening Curtains and Tracks
10 22 00	Partitions
10 22 13	Wire Mesh Partitions
10 22 14	Expanded Metal Partitions
10 22 16	Folding Gates
10 22 19	Demountable Partitions
10 22 19.13	Demountable Metal Partitions
10 22 19.23	Demountable Wood Partitions
10 22 19.33	Demountable Plastic Partitions
10 22 19.43	Demountable Composite Partitions
10 22 19.53	Demountable Gypsum Partitions
10 22 23 10 22 23.13	Portable Partitions, Screens, and Panels Wall Screens
10 22 23.13	Movable Panel Systems
10 22 33	Accordion Folding Partitions
10 22 36	Coiling Partitions
10 22 39	Folding Panel Partitions
10 22 39.13	Folding Glass-Panel Partitions
10 22 43	Sliding Partitions
10 25 00	Service Walls
10 25 13	Patient Bed Service Walls

10 25 16	Modular Service Walls
10 26 00	Wall and Door Protection
10 26 13	Corner Guards
10 26 16 10 26 16.13	Bumper Guards Bumper Rails
10 26 16.16	Protective Corridor Handrails
10 26 23	Protective Wall Covering
10 26 23.13	Impact Resistant Wall Protection
10 26 23.16	Fiberglass Reinforced Protective Wall Covering
10 26 33	Door and Frame Protection
10 26 41	Bullet Resistant Panels
10 28 00	Toilet, Bath, and Laundry Accessories
10 28 13	Toilet Accessories
10 28 13.13	Commercial Toilet Accessories
10 28 13.19 10 28 13.53	Healthcare Toilet Accessories Security Toilet Accessories
10 28 13.63	Detention Toilet Accessories
10 28 16	Bath Accessories
10 28 16.13	Residential Bath Accessories
10 28 19	Tub and Shower Enclosures
10 28 19.16	Shower Doors
10 28 19.19 10 28 23	Tub Doors
10 28 23.13	Laundry Accessories Built-In Ironing Boards
10 28 23.16	Clothes Drying Racks
10 28 26	Hygiene and Custodial Accessories
40 20 00	Eiroplassa and Ctavas
10 30 00	Fireplaces and Stoves
10 30 00	Manufactured Fireplaces
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10 31 00	Manufactured Fireplaces
10 31 00 10 31 13	Manufactured Fireplaces Manufactured Fireplace Chimneys
10 31 00 10 31 13 10 31 16	Manufactured Fireplaces Manufactured Fireplace Chimneys Manufactured Fireplace Forms Fireplace Specialties Fireplace Dampers
10 31 00 10 31 13 10 31 16 10 32 00 10 32 13 10 32 16	Manufactured Fireplaces Manufactured Fireplace Chimneys Manufactured Fireplace Forms Fireplace Specialties Fireplace Dampers Fireplace Inserts
10 31 00 10 31 13 10 31 16 10 32 00 10 32 13 10 32 16 10 32 19	Manufactured Fireplaces Manufactured Fireplace Chimneys Manufactured Fireplace Forms Fireplace Specialties Fireplace Dampers Fireplace Inserts Fireplace Screens
10 31 00 10 31 13 10 31 16 10 32 00 10 32 13 10 32 16 10 32 19 10 32 23	Manufactured Fireplaces Manufactured Fireplace Chimneys Manufactured Fireplace Forms Fireplace Specialties Fireplace Dampers Fireplace Inserts Fireplace Screens Fireplace Doors
10 31 00 10 31 13 10 31 16 10 32 00 10 32 13 10 32 16 10 32 19 10 32 23 10 32 26	Manufactured Fireplaces Manufactured Fireplace Chimneys Manufactured Fireplace Forms Fireplace Specialties Fireplace Dampers Fireplace Inserts Fireplace Screens Fireplace Doors Fireplace Water Heaters
10 31 00 10 31 13 10 31 16 10 32 00 10 32 13 10 32 16 10 32 19 10 32 23 10 32 26 10 35 00	Manufactured Fireplaces Manufactured Fireplace Chimneys Manufactured Fireplace Forms Fireplace Specialties Fireplace Dampers Fireplace Inserts Fireplace Screens Fireplace Doors Fireplace Water Heaters Stoves
10 31 00 10 31 13 10 31 16 10 32 00 10 32 13 10 32 16 10 32 19 10 32 23 10 32 26 10 35 00 10 35 13	Manufactured Fireplaces Manufactured Fireplace Chimneys Manufactured Fireplace Forms Fireplace Specialties Fireplace Dampers Fireplace Inserts Fireplace Screens Fireplace Doors Fireplace Water Heaters Stoves Heating Stoves
10 31 00	Manufactured Fireplaces Manufactured Fireplace Chimneys Manufactured Fireplace Forms Fireplace Specialties Fireplace Dampers Fireplace Inserts Fireplace Screens Fireplace Doors Fireplace Water Heaters Stoves Heating Stoves Cooking Stoves
10 31 00	Manufactured Fireplaces Manufactured Fireplace Chimneys Manufactured Fireplace Forms Fireplace Specialties Fireplace Dampers Fireplace Inserts Fireplace Screens Fireplace Doors Fireplace Water Heaters Stoves Heating Stoves Cooking Stoves Safety Specialties
10 31 00	Manufactured Fireplaces Manufactured Fireplace Chimneys Manufactured Fireplace Forms Fireplace Specialties Fireplace Dampers Fireplace Inserts Fireplace Screens Fireplace Doors Fireplace Water Heaters Stoves Heating Stoves Cooking Stoves
10 31 00	Manufactured Fireplaces Manufactured Fireplace Chimneys Manufactured Fireplace Forms Fireplace Specialties Fireplace Dampers Fireplace Inserts Fireplace Screens Fireplace Doors Fireplace Water Heaters Stoves Heating Stoves Cooking Stoves Safety Specialties Emergency Access and Information Cabinets Fire Department Plan Cabinets
10 31 00	Manufactured Fireplaces Manufactured Fireplace Chimneys Manufactured Fireplace Forms Fireplace Specialties Fireplace Dampers Fireplace Inserts Fireplace Screens Fireplace Doors Fireplace Water Heaters Stoves Heating Stoves Cooking Stoves Safety Specialties Emergency Access and Information Cabinets Fire Department Plan Cabinets Emergency Key Cabinets
10 31 00	Manufactured Fireplaces Manufactured Fireplace Chimneys Manufactured Fireplace Forms Fireplace Specialties Fireplace Dampers Fireplace Inserts Fireplace Screens Fireplace Doors Fireplace Water Heaters Stoves Heating Stoves Cooking Stoves Safety Specialties Emergency Access and Information Cabinets Fire Department Plan Cabinets Emergency Key Cabinets Emergency Aid Specialties
10 31 00	Manufactured Fireplaces Manufactured Fireplace Chimneys Manufactured Fireplace Forms Fireplace Specialties Fireplace Dampers Fireplace Inserts Fireplace Screens Fireplace Doors Fireplace Water Heaters Stoves Heating Stoves Cooking Stoves Safety Specialties Emergency Access and Information Cabinets Fire Department Plan Cabinets Emergency Key Cabinets Emergency Aid Specialties Defibrillator Cabinets
10 31 00	Manufactured Fireplaces Manufactured Fireplace Chimneys Manufactured Fireplace Forms Fireplace Specialties Fireplace Dampers Fireplace Inserts Fireplace Screens Fireplace Doors Fireplace Water Heaters Stoves Heating Stoves Cooking Stoves Safety Specialties Emergency Access and Information Cabinets Fire Department Plan Cabinets Emergency Key Cabinets Emergency Aid Specialties Defibrillator Cabinets First Aid Cabinets
10 31 00	Manufactured Fireplaces Manufactured Fireplace Chimneys Manufactured Fireplace Forms Fireplace Specialties Fireplace Dampers Fireplace Inserts Fireplace Screens Fireplace Doors Fireplace Water Heaters Stoves Heating Stoves Cooking Stoves Safety Specialties Emergency Access and Information Cabinets Fire Department Plan Cabinets Emergency Key Cabinets Emergency Aid Specialties Defibrillator Cabinets First Aid Cabinets Accessibility Evacuation Chairs
10 31 00	Manufactured Fireplaces Manufactured Fireplace Chimneys Manufactured Fireplace Forms Fireplace Specialties Fireplace Dampers Fireplace Inserts Fireplace Screens Fireplace Doors Fireplace Water Heaters Stoves Heating Stoves Cooking Stoves Safety Specialties Emergency Access and Information Cabinets Fire Department Plan Cabinets Emergency Key Cabinets Emergency Aid Specialties Defibrillator Cabinets First Aid Cabinets

10 44 00	Fire Protection Specialties
10 44 13	Fire Protection Cabinets
10 44 13.53	Security Fire Extinguisher Cabinets
10 44 16	Fire Extinguishers
10 44 16.13 10 44 16.16	Portable Fire Extinguishers
10 44 10.10	Wheeled Fire Extinguisher Units Fire Blankets
10 44 43	Fire Extinguisher Accessories
10 45 00	Photoluminescent Exit Specialties
10 50 00	Storage Specialties
10 51 00	Lockers
10 51 13	Metal Lockers
10 51 13.13	Coin-Operated Metal Lockers
10 51 16	Wood Lockers
10 51 23	Plastic-Laminate-Clad Lockers
10 51 26	Plastic Lockers
10 51 26.13 10 51 29	Recycled Plastic Lockers Phenolic Lockers
10 51 29	Glass Lockers
10 51 43	Wire Mesh Storage Lockers
10 51 53	Locker Room Benches
10 55 00	Postal Specialties
10 55 13	Central Mail Delivery Boxes
10 55 13.13	Cluster Box Units
10 55 16	Mail Collection Boxes
10 55 19	Receiving Boxes
10 55 23	Mail Boxes
10 55 23.13	Apartment Mail Boxes
10 55 23.16	Mail Box Directories
10 55 23.19	Mail Box Key Keepers
10 55 26	Parcel Lockers
10 55 33	Data Distribution Boxes
10 55 36	Package Depositories
10 55 91	Mail Chutes
10 56 00	Storage Assemblies
10 56 13	Metal Storage Shelving
10 56 13.13 10 56 13.16	End-Panel-Support Metal Storage Shelving Post-and-Shelf Metal Storage Shelving
10 56 13.19	Post-and-Beam Metal Storage Shelving
10 56 13.23	Cantilever Metal Storage Shelving
10 56 16	Fabricated Wood Storage Shelving
10 56 17	Wall-Mounted Standards and Shelving
10 56 19	Plastic Storage Shelving
10 56 19.13	Recycled Plastic Storage Shelving
10 56 23	Wire Storage Shelving
10 56 26	Mobile Storage Shelving
10 56 26.13	Manual Mobile Storage Shelving
10 56 26.23 10 56 29	Motorized Mobile Storage Shelving
10 56 29	Storage Racks Flow Storage Racks
10 00 20.10	o otorago raono

10 :	10 56 29.16 10 56 29.19 10 56 29.23 10 56 29.26 10 56 29.29 10 56 29.33 10 56 29.43 10 56 33 57 00	Pallet Storage Racks Movable-Shelf Storage Racks Stacker Storage Racks Cantilever Storage Racks Drive-In Storage Racks Drive-Through Storage Racks Wine Storage Racks Mercantile Storage Assemblies Wardrobe and Closet Specialties
	10 57 13 10 57 16 10 57 23 10 57 23.13 10 57 23.16 10 57 23.19 10 57 33 10 57 36 10 57 36.13 10 57 36.16	Hat and Coat Racks Boot Racks Closet and Utility Shelving Wire Closet and Utility Shelving Plastic-Laminate-Clad Closet and Utility Shelving Wood Closet and Utility Shelving Closet and Utility Shelving Hardware Closet Doors Sliding Closet Doors Bifold Closet Doors
10	70 00	Exterior Specialties
10	71 00	Exterior Protection
10	10 71 13 10 71 13.13 10 71 13.19 10 71 13.23 10 71 13.26 10 71 13.29 10 71 13.43 10 71 13.53 10 71 16.13 10 71 16.16 10 71 19 10 71 19.16 73 00	Exterior Sun Control Devices Exterior Shutters Rolling Exterior Shutters Coiling Exterior Shutters Decorative Exterior Shutters Side-Hinged Exterior Shutters Fixed Sun Screens Exterior Daylighting Devices Storm Panels Demountable Storm Panels Movable Storm Panels Flood Barriers Removable Flood Barriers Protective Covers
	10 73 13	Awnings
	10 73 13.13 10 73 13.23 10 73 13.36 10 73 16.13 10 73 16.23 10 73 16.33 10 73 16.36 10 73 23 10 73 26.13 10 73 26.13 10 73 26.23 10 73 26.33 10 73 26.33 10 73 26.36 10 73 33	Metal Awnings Fabric Awnings Point Supported Glass Awnings Canopies Metal Canopies Fabric Canopies Glazed Canopies Point Supported Glass Canopies Car Shelters Walkway Coverings Metal Walkway Coverings Fabric Walkway Coverings Fabric Walkway Coverings Glazed Walkway Coverings Point Supported Glass Walkway Coverings Marquees Transportation Stan Chalters
	10 73 43	Transportation Stop Shelters

10 74 00	Manufactured Exterior Specialties
10 74 13	Exterior Clocks
10 74 23	Cupolas
10 74 26	Spires
10 74 29	Steeples
10 74 33	Weathervanes
10 74 43	Below-Grade Egress Assemblies
10 74 46	Window Wells
10 75 00	Flagpoles
10 75 13	Automatic Flagpoles
10 75 16	Ground-Set Flagpoles
10 75 19	Nautical Flagpoles
10 75 23	Wall-Mounted Flagpoles
10 75 26	Roof-Mounted Flagpoles
10 75 29	Plaza-Mounted Flagpoles
10 80 00	Other Specialties
10 81 00	Pest Control Devices
10 81 13	Bird Control Devices
10 81 16	Insect Control Devices
10 81 19	Rodent Control Devices
10 82 00	Grilles and Screens
10 82 13	Exterior Grilles and Screens
10 82 19	Exterior Sound Screens
10 82 23	Interior Grilles and Screens
10 83 00	Flags and Banners
10 83 13	Flags
10 83 16	Banners
10 84 00	Gas Lighting
10 84 13	Exterior Gas Lighting
10 84 16	Interior Gas Lighting
10 86 00	Security Mirrors and Domes
10 88 00	Scales
11 00 00	Equipment
11 01 00	Operation and Maintenance of Equipment
11 01 10	Operation and Maintenance of Vehicle and Pedestrian Equipment
11 01 20	Operation and Maintenance of Commercial Equipment
11 01 30	Operation and Maintenance of Residential Equipment
11 01 40 11 01 50	Operation and Maintenance of Foodservice Equipment Operation and Maintenance of Educational and Scientific Equipment
11 01 56	Operation and Maintenance of Observatory Equipment
11 01 60	Operation and Maintenance of Entertainment and Recreation Equipment
11 01 70	Operation and Maintenance of Healthcare Equipment
11 01 80	Operation and Maintenance of Facility Maintenance and Operation
	Equipment
11 01 90	Operation and Maintenance of Other Equipment
11 05 00	Common Work Results for Equipment
11 05 05	Selective Demolition for Equipment

11 05 13	Common Motor Requirements for Equipment
11 06 00	Schedules for Equipment
11 06 10	Schedules for Vehicle and Pedestrian Equipment
11 06 20	Schedules for Commercial Equipment
11 06 30	Schedules for Residential Equipment
11 06 40	Schedules for Foodservice Equipment
11 06 40.13	Foodservice Equipment Schedule
11 06 50	Schedules for Educational and Scientific Equipment
11 06 60	Schedules for Entertainment and Recreation Equipment
11 06 70	Schedules for Healthcare Equipment
11 06 70.13 11 06 80	Healthcare Equipment Schedule Schedules for Facility Maintenance and Operation Equipment
11 06 90	Schedules for Other Equipment
11 06 90.11	Schedules for Detention Equipment
11 08 00	Commissioning of Equipment
11 10 00	Vehicle and Pedestrian Equipment
11 11 00	Vehicle Service Equipment
11 11 13	Compressed-Air Vehicle Service Equipment
11 11 19	Vehicle Lubrication Equipment
11 11 23	Tire-Changing Equipment
11 11 26	Vehicle-Washing Equipment
11 11 36	Vehicle Charging Equipment
11 11 36.13	Commercial Electric Vehicle Charging Unit
11 11 36.16	Residential Electric Vehicle Charging Unit
11 12 00	Parking Control Equipment
11 12 13	Parking Key and Card Control Units
11 12 16	Parking Ticket Dispensers
11 12 23	Parking Meters
11 12 26	Parking Fee Collection Equipment
11 12 26.13	Parking Fee Coin Collection Equipment
11 12 33	Parking Gates
11 12 33.13 11 12 33.16	Lift Arm Parking Gates Sliding Parking Gates
11 12 33.19	Swinging Parking Gates
11 13 00	Loading Dock Equipment
11 13 13	Loading Dock Bumpers
11 13 16	Loading Dock Seals and Shelters
11 13 16.13	Loading Dock Seals
11 13 16.23	Loading Dock Shelters
11 13 16.33 11 13 19	Loading Dock Rail Shelters Stationary Loading Dock Equipment
11 13 19.13	Loading Dock Levelers
11 13 19.23	Stationary Loading Dock Lifts
11 13 19.26	Loading Dock Truck Lifts
11 13 19.33	Loading Dock Truck Restraints
11 13 23	Portable Dock Equipment
11 13 23.13 11 13 23.16	Portable Dock Ramps
11 13 23.10	Portable Dock Ramps Portable Dock Bridges
11 13 23.23	Portable Dock Platforms
11 13 26	Loading Dock Lights

11 14 00	Pedestrian Control Equipment
11 14 13	Pedestrian Gates
11 14 13.16	Rotary Gates
11 14 13.19 11 14 16	Turnstiles Pedestrian Control Devices
11 14 19	Portable Posts and Railings
11 14 26	Pedestrian Fare Collection Equipment
11 14 26.13	Pedestrian Coin Fare Collection Equipment
11 14 43	Pedestrian Detection Equipment
11 14 43.13	Electronic Detection and Counting Systems
11 14 53	Pedestrian Security Equipment
11 15 00	Security Control Equipment
11 20 00	Commercial Equipment
11 21 00	Retail and Service Equipment
11 21 13	Cash Registers and Checking Equipment
11 21 23	Vending Equipment
11 21 23.13	Merchandise Vending Machines
11 21 23.16 11 21 23.19	Reverse Vending Machines Video Rental Vending Machines
11 21 23.19	Token Vending Machines
11 21 24	Money Changing Machines
11 21 33	Checkroom Equipment
11 21 43	Weighing and Wrapping Equipment
11 21 53	Barber and Beauty Shop Equipment
11 21 63	Refrigerated Display Equipment
11 21 73	Commercial Laundry and Dry Cleaning Equipment
11 21 73.13 11 21 73.16	Dry Cleaning Equipment Drying and Conditioning Equipment
11 21 73.10	Finishing Equipment
11 21 73.23	Commercial Ironing Equipment
11 21 73.26	Commercial Washers and Extractors
11 21 73.33	Coin-Operated Laundry Equipment
11 21 73.43 11 21 83	Hanging Garment Conveyors Photo Processing Equipment
11 22 00	- · · · · · · · · · · · · · · · · · · ·
11 22 00	Banking Equipment Vault Equipment
11 22 13.13	Safe Deposit Boxes
11 22 13.16	Safes
11 22 13.23	Vault Ventilators
11 22 13.26	Time Capsules
11 22 16 11 22 16.13	Teller and Service Equipment Teller Equipment Systems
11 22 16.13	Automatic Banking Systems
11 22 16.19	Money Handling Equipment
11 22 16.23	Money Depositories
11 22 16.26	Money Cart Pass-Through
11 22 16.29 11 22 16.33	Package Transfer Units
11 25 00	Deal Trays Hospitality Equipment
11 25 13	Registration Equipment
11 28 00	Office Equipment
23 00	Sinso Equipmont

11 28 13	Computers
11 28 16	Printers
11 28 23	Copiers
11 29 00	Postal, Packaging, and Shipping Equipment
11 29 23	Packaging Equipment
11 29 33	Shipping Equipment
11 29 55	Postal Equipment
11 30 00	Residential Equipment
11 30 13	Residential Appliances
11 30 13.13	Residential Kitchen Appliances
11 30 13.23	Residential Laundry Appliances
11 30 33	Retractable Stairs
11 30 34	Residential Ceiling Fans
11 32 00	Unit Kitchens
11 32 13	Metal Unit Kitchens
11 32 16	Wood Unit Kitchens
11 32 19	Plastic-Laminate-Clad Unit Kitchens
11 40 00	Foodservice Equipment
11 41 00	Foodservice Storage Equipment
11 41 13	Refrigerated Food Storage Cases
11 41 23	Walk-In Coolers
11 41 26	Walk-In Freezers
11 41 33	Foodservice Shelving
11 42 00	Food Preparation Equipment
11 42 13	Food Preparation Appliances
11 42 16	Food Preparation Surfaces
11 43 00	Food Delivery Carts and Conveyors
11 43 13	Food Delivery Carts
11 43 16	Food Delivery Conveyors
11 44 00	Food Cooking Equipment
11 44 13	Commercial Ranges
11 44 16	Commercial Ovens
11 46 00	Food Dispensing Equipment
11 46 13	Bar Equipment
11 46 16	Service Line Equipment
11 46 19	Soda Fountain Equipment
11 46 23	Coffee and Espresso Equipment
11 46 83	Ice Machines
11 48 00	Foodservice Cleaning and Disposal Equipment
11 48 13	Commercial Dishwashers
11 50 00	Educational and Scientific Equipment
11 51 00	Library Equipment
11 51 00	Automated Book Storage and Retrieval Systems
11 51 16	Book Depositories
11 51 19	Book Theft Protection Equipment
11 51 23	Library Stack Systems
11 51 23.13	

11 52 00	Audio-Visual Equipment
11 52 13	Projection Screens
11 52 13.13	Fixed Projection Screens
11 52 13.16	Portable Projection Screens
11 52 13.19 11 52 16	Rear Projection Screens Projectors
11 52 16.13	Movie Projectors
11 52 16.16	Slide Projectors
11 52 16.19	Overhead Projectors
11 52 16.23	Opaque Projectors
11 52 16.26	Video Projectors
11 52 19	Players and Recorders
11 52 23	Audio-Visual Equipment Supports
11 53 00	Laboratory Equipment
11 53 13	Laboratory Fume Hoods
11 53 13.13 11 53 16	Recirculating Laboratory Fume Hoods Laboratory Incubators
11 53 17	Laboratory Equipment Washers
11 53 17	Laboratory Sterilizers
11 53 23	Laboratory Refrigerators
11 53 26	Laboratory Freezers
11 53 29	Laboratory Controlled-Environment Cabinets
11 53 33	Emergency Safety Appliances
11 53 43	Service Fittings and Accessories
11 53 53	Biological Safety Cabinets
11 55 00	Planetarium Equipment
11 55 13	Planetarium Projectors
11 55 16	Planetarium Pendulums
11 56 00	Observatory Equipment
11 56 13	Telescopes Telescopes
11 56 16 11 56 19	Telescope Mounts Telescope Drive Mechanisms
11 56 23	Telescope Domes
11 57 00	Vocational Shop Equipment
11 59 00	Exhibit Equipment
11 60 00	Entertainment and Recreation Equipment
	• • • • • • • • • • • • • • • • • • •
11 61 00	Broadcast, Theater, and Stage Equipment
11 61 13	Acoustical Shells
11 61 23	Folding and Portable Stages
11 61 33 11 61 33.11	Rigging Systems and Controls Lighting Rigging Systems
11 61 33.16	Scenery Rigging Systems
11 61 33.19	Curtain Systems
11 61 43	Stage Curtains
11 62 00	Musical Equipment
11 62 13	Bells
11 62 16	Carillons
11 62 19	Organs
11 66 00	Athletic Equipment

	11 66 13	Exercise Equipment
	11 66 23	Gymnasium Equipment
	11 66 23.13	Basketball Equipment
	11 66 23.23	Volleyball Equipment
	11 66 23.33	Interior Tennis Equipment
	11 66 23.43	Interior Track and Field Equipment
	11 66 23.53	Wall Padding
	11 66 23.56	Mat Storage
	11 66 43	Interior Scoreboards
	11 66 53	Gymnasium Dividers
	11 66 53.13	Batting/Golf Cages
11	67 00	Recreational Equipment
	11 67 13	Bowling Alley Equipment
	11 67 23	Shooting Range Equipment
	11 67 33	Climbing Walls
	11 67 43	Table Games Equipment
	11 67 43.13	Pool Tables
	11 67 43.23	Ping-Pong Tables
	11 67 53	Game Room Equipment
	11 67 53.13	Video Games
	11 67 53.23	Pinball Machines
11	68 00	Play Field Equipment and Structures
	11 68 13	Playground Equipment
	11 68 16	Play Structures
	11 68 23	Exterior Court Athletic Equipment
	11 68 23.13	Exterior Basketball Equipment
	11 68 23.23	Exterior Volleyball Equipment
	11 68 23.33	Tennis Equipment
	11 68 33	Athletic Field Equipment
	11 68 33.13	Football Field Equipment
	11 68 33.23	Soccer and Field Hockey Equipment
	11 68 33.33 11 68 33.43	Baseball Field Equipment Track and Field Equipment
	11 68 43	Exterior Scoreboards
4 4		
H	70 00	Healthcare Equipment
11	71 00	Medical Sterilizing Equipment
11	72 00	Examination and Treatment Equipment
	11 72 13	Examination Equipment
	11 72 53	Treatment Equipment
11	73 00	Patient Care Equipment
	11 73 13	Psychiatric Seclusion Room Padding
11	74 00	Dental Equipment
	75 00	Optical Equipment
		• •
	76 00	Operating Room Equipment
	77 00	Radiology Equipment
11	78 00	Mortuary Equipment
	11 78 13	Mortuary Refrigerators
	11 78 16	Crematorium Equipment
	11 78 19	Mortuary Lifts

11 79 00	Therapy Equipment
11 80 00	Facility Maintenance and Operation
	Equipment
11 81 00	Facility Maintenance Equipment
11 81 13	Floor and Wall Cleaning Equipment
11 81 16	Housekeeping Carts
11 81 19	Vacuum Cleaning Systems
11 81 23 11 81 23.13	Façade Access Equipment Window Washing Systems
11 81 29	Facility Fall Protection
11 82 00	Facility Solid Waste Handling Equipment
11 82 13	Solid Waste Bins
11 82 19	Packaged Incinerators
11 82 23	Recycling Equipment
11 82 26	Facility Waste Compactors
11 82 29	Composting Equipment
11 82 33	Facility Waste Shredders
11 82 36	Facility Waste Balers
11 90 00	Other Equipment
11 91 00	Religious Equipment
11 91 13	Baptisteries
11 92 00	Agricultural Equipment
11 92 13	Milkers
11 92 16	Stock Feeders
11 92 19	Stock Waterers
11 92 23	Agricultural Waste Clean-Up Equipment
11 93 00 11 93 13	Horticultural Equipment
11 93 13	Hydroponic Growing Systems Seeders
11 93 19	Transplanters
11 93 23	Potting Machines
11 93 26	Flat Fillers
11 93 29	Baggers
11 93 33	Soil Mixers
11 94 00	Veterinary Equipment
11 95 00	Arts and Crafts Equipment
11 95 13	Kilns
11 97 00	Security Equipment
11 97 13	Deal Drawers
11 97 16	Gun Ports
11 97 23	Valuable Material Storage
11 98 00	Detention Equipment
11 98 11 11 98 12	Detention Equipment General Requirements Detention Doors and Frames
11 98 12	Detention Pass-Through Doors
11 98 14	Detention Door Hardware

11 98 16	Detention Equipment Fasteners
11 98 19	Detention Room Padding
11 98 21	Detention Windows
11 98 23	Detention Window Screens
12 00 00	Furnishings
12 01 00	Operation and Maintenance of Furnishings
12 01 10	Operation and Maintenance of Art
12 01 20	Operation and Maintenance of Window Treatments
12 01 30	Operation and Maintenance of Casework
12 01 40	Operation and Maintenance of Furnishings and Accessories
12 01 50	Operation and Maintenance of Furniture
12 01 60	Operation and Maintenance of Multiple Seating
12 01 90 12 05 00	Operation and Maintenance of Other Furnishings
12 05 00	Common Work Results for Furnishings
12 05 05 12 05 13	Selective Demolition for Furnishings Fabrics
12 06 00	Schedules for Furnishings
12 06 00	Schedules for Art
12 06 10	Schedules for Window Treatments
12 06 20.13	Window Treatment Schedule
12 06 30	Schedules for Casework
12 06 30.13	Manufactured Casework Schedule
12 06 40	Schedules for Furnishings and Accessories
12 06 40.13	Furnishings Schedule
12 06 50	Schedules for Furniture
12 06 60	Schedules for Multiple Seating
12 06 90 12 08 00	Schedules for Other Furnishings
	Commissioning of Furnishings
12 10 00	Art
12 11 00	Murals
12 11 13	Photo Murals
12 11 16	Sculptured Brick Panels
12 11 23 12 11 26	Brick Murals Ceramic Tile Murals
12 11 26	Trompe l'oeil
12 12 00	Wall Decorations
12 12 13	Commissioned Paintings
12 12 16	Framed Paintings
12 12 19	Framed Prints
12 12 23	Tapestries
12 12 26	Wall Hangings
12 14 00	Sculptures
12 14 13	Carved Sculpture
12 14 16	Cast Sculpture
12 14 19	Constructed Sculpture
12 14 23	Relief Art
12 17 00	Art Glass

12 17 13 12 17 16	Etched Glass Stained Glass
12 19 00	Religious Art
12 20 00	Window Treatments
12 20 00	
12 21 00	Window Blinds Horizontal Louver Blinds
12 21 13.13	Metal Horizontal Louver Blinds
12 21 13.23	Wood Horizontal Louver Blinds
12 21 13.33 12 21 16	Plastic Horizontal Louver Blinds Vertical Louver Blinds
12 21 16.13	Metal Vertical Louver Blinds
12 21 16.23	Wood Vertical Louver Blinds
12 21 16.33 12 21 23	Plastic Vertical Louver Blinds Roll-Down Blinds
12 21 26	Black-Out Blinds
12 22 00	Curtains and Drapes
12 22 13	Draperies
12 22 16	Drapery Track and Accessories
12 23 00	Interior Shutters
12 23 13 12 24 00	Wood Interior Shutters Window Shades
12 24 00	Roller Window Shades
12 24 16	Pleated Window Shades
12 24 16.13	Z-Pleated Window Shades
12 24 16.16 12 24 16.19	Cellular Shades Roman Shades
12 25 00	Window Treatment Operating Hardware
12 25 09	Window Treatment Control System
12 25 13	Motorized Drapery Rods
12 26 00	Interior Daylighting Devices
12 30 00	Casework
12 31 00	Manufactured Metal Casework
12 31 16	Manufactured Metal Sandwich Panel Casework
12 32 00	Manufactured Wood Casework
12 32 13 12 32 16	Manufactured Wood-Veneer-Faced Casework Manufactured Plastic-Laminate-Clad Casework
12 34 00	Manufactured Plastic Casework
12 34 16	Manufactured Solid-Plastic Casework
12 34 19	Manufactured Solid Surface Casework
12 35 00	Specialty Casework
12 35 17	Bank Casework
12 35 25 12 35 30	Hospitality Casework Residential Casework
12 35 30.13	Kitchen Casework
12 35 30.23	Bathroom Casework
12 35 30.43 12 35 33	Dormitory Casework Utility Room Casework
12 35 36	Mailroom Casework

12 35 39 12 35 50 12 35 50.13 12 35 50.53 12 35 50.56 12 35 53.13 12 35 53.16 12 35 53.19 12 35 53.23 12 35 53.23 12 35 70.12 35 70.13 12 35 70.16 12 35 70.19 12 35 70.74 12 35 83 12 35 91	Commercial Kitchen Casework Educational/Library Casework Educational Casework Library Casework Built-In Study Carrels Laboratory Casework Metal Laboratory Casework Plastic-Laminate-Clad Laboratory Casework Wood Laboratory Casework Solid-Plastic Laboratory Casework Display Casework Healthcare Casework Hospital Casework Nurse Station Casework Exam Room Casework Dental Casework Performing Arts Casework Religious Casework
12 36 00	Countertops
12 36 13 12 36 16 12 36 19 12 36 23 12 36 23.13 12 36 26 12 36 40 12 36 53 12 36 61.13 12 36 61.13 12 36 61.19 12 36 71	Concrete Countertops Metal Countertops Wood Countertops Plastic Countertops Plastic-Laminate-Clad Countertops Glass Countertops Stone Countertops Laboratory Countertops Simulated Stone Countertops Cultured Marble Countertops Solid Surfacing Countertops Quartz Agglomerate Countertops Paper-Composite Countertops
12 40 00	Furnishings and Accessories
12 41 00	Office Accessories
12 41 13	Desk Accessories
12 42 00	Table Accessories
12 42 13 12 42 16 12 42 16.13 12 42 19 12 42 23 12 42 26 12 42 26.13 12 43 00 12 43 13 12 43 13.13	Ceramics Flatware Silverware Hollowware Glassware Table Linens Napery Portable Lamps Lamps Desk Lamps Table Lamps
12 43 13.16 12 43 13.19	Table Lamps Floor Lamps
12 44 00 12 44 13 12 44 13.13	Bath Furnishings Bath Linens Bath Mats

12 44 13.16	Bath Towels
12 44 16	Shower Curtains
12 45 00	Bedroom Furnishings
12 45 13	Bed Linens
12 45 13.13	Blankets
12 45 13.16	Comforters
12 45 16	Pillows
12 46 00	Furnishing Accessories
12 46 13	Ash Receptacles
12 46 16	Bowls
12 46 19	Clocks
12 46 23	Decorative Crafts
12 46 26	Decorative Screens
12 46 29	Vases
12 46 33	Waste Receptacles
12 48 00	Rugs and Mats
12 48 13	Entrance Floor Mats and Frames
12 48 13.13 12 48 13.16	Entrance Floor Mats Entrance Floor Mat Frames
12 48 16	Entrance Floor Grilles
12 48 19	Entrance Floor Gratings
12 48 23	Entrance Floor Grids
12 48 26	Entrance Tile
12 48 43	Floor Mats
12 48 43.13	Chair Mats
12 48 43.23	Anti-Fatigue Floor Mats
12 48 43.26 12 48 53	Fall-Cushioning Floor Mats
12 48 53.13	Rugs Runners
12 48 53.16	Oriental Rugs
12 50 00	Furniture
12 51 00	Office Furniture
12 51 16	Case Goods
12 51 16.13	Metal Case Goods
12 51 16.16	Wood Case Goods
12 51 16.19	Plastic-Laminate-Clad Case Goods
12 51 19	Filing Cabinets
12 51 19.13 12 51 19.16	Lateral Filing Cabinets
12 51 19.10	Vertical Filing Cabinets Office Tables
12 51 83	Custom Office Furniture
12 52 00	Seating
12 52 00	Chairs
12 52 13	Upholstered Seating
12 52 13	Office Seating
12 52 70	Healthcare Seating
12 52 83	Custom Seating
12 53 00	Retail Furniture
12 53 83	Custom Retail Furniture
12 54 00	Hospitality Furniture
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12 54 13 12 54 16 12 54 83 12 55 00 12 55 13 12 55 16 12 55 19 12 55 23	Hotel and Motel Furniture Restaurant Furniture Custom Hospitality Furniture Detention Furniture Detention Bunks Detention Desks Detention Stools Detention Tables
12 55 26	Detention Safety Clothes Hooks
12 55 83	Custom Detention Furniture
12 55 86	Detention Control Room Furniture
12 56 00	Institutional Furniture
12 56 23 12 56 33 12 56 33.13 12 56 33.23 12 56 39 12 56 43 12 56 51.13 12 56 51.16 12 56 51.19 12 56 52 12 56 53 12 56 70 12 56 83	Religious Furniture Classroom Furniture Fixed Classroom Tables Classroom Computer Furniture Lecterns Dormitory Furniture Library Furniture Book Shelves Study Carrels Index Card File Cabinets Audio-Visual Furniture Laboratory Furniture Healthcare Furniture Custom Institutional Furniture Institutional Control Room Furniture
12 56 86 12 57 00	Industrial Furniture
12 57 13 12 57 16 12 57 19 12 57 83 12 57 86	Welding Benches Welding Screens Laser Containment Screens Custom Industrial Furniture Industrial Control Room Furniture
12 58 00	Residential Furniture
12 58 13 12 58 13.13 12 58 16 12 58 16.13 12 58 19 12 58 23 12 58 26 12 58 29 12 58 29.13 12 58 33 12 58 33.13 12 58 36 12 58 83 12 58 83 12 59 16	Couches and Loveseats Futons Residential Chairs Reclining Chairs Dining Tables and Chairs Coffee Tables Entertainment Centers Beds Daybeds Dressers Armoires Nightstands Custom Residential Furniture Systems Furniture Panel-Hung Component System Furniture Free-Standing Component System Furniture
12 33 10	r rec-standing component system Furniture

12 59 19	Beam System Furniture
12 59 23 12 59 83	Desk System Furniture Custom Systems Furniture
12 60 00	Multiple Seating
	•
12 61 00	Fixed Audience Seating
12 61 13 12 61 16	Upholstered Audience Seating Molded-Plastic Audience Seating
12 62 00	Portable Audience Seating
12 62 13	Folding Chairs
12 62 16	Interlocking Chairs
12 62 19	Stacking Chairs
12 62 23	Portable Bleachers
12 63 00	Stadium and Arena Seating
12 63 13	Stadium and Arena Seate
12 63 23 12 64 00	Stadium and Arena Seats Booths and Tables
12 65 00	Multiple-Use Fixed Seating
12 66 00	Telescoping Stands
12 66 13 12 66 23	Telescoping Bleachers Telescoping Chair Platforms
12 67 00	Pews and Benches
12 67 13	Pews
12 67 23	Benches
12 68 00	Seat and Table Assemblies
12 68 13	Pedestal Tablet Arm Chairs
12 90 00	Other Furnishings
12 92 00	Interior Planters and Artificial Plants
12 92 13	Interior Artificial Plants
12 92 33	Interior Planters
12 92 43	Interior Landscaping Accessories
12 93 00	Interior Public Space Furnishings
12 93 13 12 93 14	Bicycle Racks Bicycle Lockers
12 93 23	Trash and Litter Receptacles
13 00 00	Special Construction
13 01 00	Operation and Maintenance of Special Construction
13 01 10	Operation and Maintenance of Special Facility Components
13 01 11	Operation and Maintenance of Swimming Pools
13 01 12	Operation and Maintenance of Fountains
13 01 13	Operation and Maintenance of Aquariums
13 01 14	Operation and Maintenance of Amusement Park Structures and
13 01 18	Equipment Operation and Maintenance of Ice Rinks
13 01 20	Operation and Maintenance of Special Purpose Rooms
13 01 21	Operation and Maintenance of Controlled Environment Rooms
13 01 23	Operation and Maintenance of Planetariums

13 01 30	Operation and Maintenance of Special Structures
13 01 40	Operation and Maintenance of Integrated Construction
13 01 49	Operation and Maintenance of Radiation Protection
13 01 50	Operation and Maintenance of Special Instrumentation
13 01 51	Operation and Maintenance of Stress Instrumentation
13 01 52	Operation and Maintenance of Seismic Instrumentation
13 01 53	Operation and Maintenance of Meteorological Instrumentation
13 05 00	Common Work Results for Special Construction
13 05 05	Selective Demolition for Special Construction
13 06 00	Schedules for Special Construction
13 06 10	Schedules for Special Facility Components
13 06 20	Schedules for Special Purpose Rooms
13 06 30	Schedules for Special Structures
13 06 40	Schedules for Integrated Construction
13 06 50	Schedules for Special Instrumentation
13 08 00	Commissioning of Special Construction
13 08 10	Commissioning of Special Facility Components
13 08 11	Commissioning of Swimming Pools
13 08 12	Commissioning of Fountains
13 08 13	Commissioning of Aquariums
13 08 14	Commissioning of Amusement Park Structures and Equipment
13 08 18	Commissioning of Ice Rinks
13 08 20	Commissioning of Special Purpose Rooms
13 08 21	Commissioning of Controlled Environment Rooms
13 08 23	Commissioning of Planetariums
13 08 30	Commissioning of Special Structures
13 08 40	Commissioning of Integrated Construction
13 08 50	Commissioning of Special Instrumentation
13 10 00	Special Facility Components
13 11 00	·
	Swimming Pools
13 11 13	Below-Grade Swimming Pools
13 11 23 13 11 33	On-Grade Swimming Pools
13 11 43	Elevated Swimming Pools Recirculating Gutter Systems
13 11 46	Swimming Pool Accessories
13 11 49	Swimming Pool Accessories Swimming Pool Cleaning Equipment
13 11 53	Movable Pool Bulkheads
13 11 56	Movable Pool Floors
13 12 00	Fountains
13 12 13	Exterior Fountains
13 12 13	Interior Fountains
13 13 00	Aquariums
	·
13 14 00	Amusement Park Structures and Equipment
13 14 13	Water Slides
13 14 16	Wave Generating Equipment
13 14 23	Amusement Park Rides
13 15 00	Specialty Element Construction
13 17 00	Tubs and Pools

13 17 13	Hot Tubs
13 17 23	Therapeutic Pools
13 17 33	Whirlpool Tubs
13 18 00	Ice Rinks
13 18 13	Ice Rink Floor Systems
13 18 16	Ice Rink Dasher Boards
13 19 00	Kennels and Animal Shelters
13 19 13	Kennel Enclosures and Gates
13 19 16	Kennel Feeding Devices
13 19 19	Animal Washing Tubs
13 20 00	Special Purpose Rooms
13 21 00	Controlled Environment Rooms
13 21 13	Clean Rooms
13 21 16	Hyperbaric Rooms
13 21 23	Insulated Rooms
13 21 26	Cold Storage Rooms
13 21 26.13	Walk-in Coolers
13 21 26.16	Walk-in Freezers
13 21 29	Constant Temperature Rooms
13 21 48	Sound-Conditioned Rooms
13 22 00	Office Shelters and Booths
13 23 00	Planetariums
13 24 00	Special Activity Rooms
13 24 16	Saunas
13 24 26	Steam Baths
13 24 66	Athletic Rooms
13 26 00	Fabricated Rooms
13 26 13	Storm Shelter Rooms
13 27 00	Vaults
13 27 16	Modular Fire Vaults
13 27 53	Security Vaults
13 27 53.13	
13 27 53.16	Modular Metal-Clad Laminated Security Vaults
13 28 00	Athletic and Recreational Special Construction
13 28 13	Indoor Soccer Boards
13 28 16	Safety Netting
13 28 19	Arena Football Boards
13 28 26	Floor Sockets
13 28 33	Athletic and Recreational Court Walls
13 28 66	Demountable Athletic Surfaces
13 30 00	Special Structures
13 31 00	Fabric Structures
13 31 13	Air-Supported Fabric Structures
13 31 13.13	Single-Walled Air-Supported Structures
13 31 13.16	Multiple-Walled Air-Supported Structures
13 31 23	Tensioned Fabric Structures
13 31 33	Framed Fabric Structures

13 32 00	Space Frames
13 32 13	Metal Space Frames
13 32 23	Wood Space Frames
13 33 00	Geodesic Structures
13 33 13	Geodesic Domes
13 34 00	Fabricated Engineered Structures
13 34 13	Glazed Structures
13 34 13.13	
13 34 13.16	
13 34 13.19	Swimming Pool Enclosures
13 34 13.23	
13 34 13.26	
13 34 16	Grandstands and Bleachers
13 34 16.13	
13 34 16.53 13 34 18	Bleachers Post Frame Building Systems
13 34 19	Metal Building Systems
13 34 23	Fabricated Structures
13 34 23.13	
13 34 23.14	0
13 34 23.16	9
13 34 23.19	Fabricated Dome Structures
13 34 23.23	
13 34 56	Observatories
13 35 00	Rammed Earth Construction
13 35 13	Rammed Earth Walls
13 35 13.13	
13 35 13.23	_
13 36 00	Towers
13 36 13	Metal Towers
13 36 13.13	Steel Towers Wood Towers
13 36 23	• · · · · · · · · · • •
13 40 00	Integrated Construction
13 42 00	Building Modules
13 42 13	Bathroom Unit Modules
13 42 25	Hospitality Unit Modules
13 42 33	Apartment Unit Modules
13 42 43	Dormitory Unit Modules
13 42 46	Education Unit Modules
13 42 63	Detention Cell Modules
13 42 63.13	
13 42 63.16	
13 44 00	Modular Mezzanines
13 47 00	Facility Protection
13 47 13	Cathodic Protection
13 47 13.13	0 1 0
13 47 13.16 13 47 13.19	
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13 48 00	Sound, Vibration, and Seismic Control

13 48 13	Manufactured Sound and Vibration Control Components
13 48 23	Fabricated Sound and Vibration Control Assemblies
13 48 53	Manufactured Seismic Control Components
13 48 63	Fabricated Seismic Control Assemblies
13 49 00	Radiation Protection
13 49 13	Integrated X-Ray Shielding Assemblies
13 49 16	Modular X-Ray Shielding Rooms
13 49 23	Integrated RFI/EMI Shielding Assemblies
13 49 26	Modular RFI/EMI Shielding Rooms
13 50 00	Special Instrumentation
13 51 00	Stress Instrumentation
13 52 00	Seismic Instrumentation
13 53 00	Meteorological Instrumentation
13 53 13	Solar Instrumentation
13 53 23	Wind Instrumentation
14 00 00	Conveying Equipment
14 01 00	Operation and Maintenance of Conveying Equipment
14 01 10	Operation and Maintenance of Dumbwaiters
14 01 10.71 14 01 20	Dumbwaiter Rehabilitation Operation and Maintenance of Elevators
14 01 20	Elevator Rehabilitation
14 01 30	Operation and Maintenance of Escalators and Moving Walks
14 01 30.71	Escalators and Moving Walks Rehabilitation
14 01 40	Operation and Maintenance of Lifts
14 01 40.71	Lift Rehabilitation
14 01 70	Operation and Maintenance of Turntables
14 01 80	Operation and Maintenance of Scaffolding
14 01 90	Operation and Maintenance of Other Conveying Equipment
14 05 00	Common Work Results for Conveying Equipment
14 05 05	Selective Demolition for Conveying Equipment
14 06 00	Schedules for Conveying Equipment
14 06 10	Schedules for Dumbwaiters
14 06 20	Schedules for Elevators
14 06 20.13	Elevator Equipment Schedule
14 06 30	Schedules for Escalators and Moving Walks
14 06 40	Schedules for Lifts
14 06 40.13 14 06 70	Lift Schedule Schedules for Turntables
14 06 70	Schedules for Scaffolding
14 06 90	Schedules for Other Conveying Equipment
14 08 00	Commissioning of Conveying Equipment
14 08 10	Commissioning of Conveying Equipment Commissioning of Dumbwaiters
14 08 10	Commissioning of Elevators
14 08 20	Commissioning of Escalators and Moving Walks
14 08 40	Commissioning of Lifts
14 08 70	Commissioning of Turntables
14 08 80	Commissioning of Scaffolding

14 10 00	Dumbwaiters
14 11 00	Manual Dumbwaiters
14 12 00	Electric Dumbwaiters
14 14 00	Hydraulic Dumbwaiters
14 20 00	Elevators
14 21 00	Electric Traction Elevators
14 21 13	Electric Traction Freight Elevators
14 21 23	Electric Traction Passenger Elevators
14 21 23.13	Machine Room Electric Traction Passenger Elevators
14 21 23.16	Machine Room-Less Electric Traction Passenger Elevators
14 21 33 14 21 43	Electric Traction Residential Elevators Electric Traction Service Elevators
14 24 00	Hydraulic Elevators
14 24 13	Hydraulic Freight Elevators
14 24 23	Hydraulic Passenger Elevators
14 24 33	Hydraulic Residential Elevators
14 24 43	Hydraulic Service Elevators
14 26 00	Limited-Use/Limited-Application Elevators
14 27 00	Custom Elevator Cabs and Doors
14 27 13	Custom Elevator Cab Finishes
14 27 16	Custom Elevator Doors
14 28 00	Elevator Equipment and Controls
14 28 16	Elevator Controls
14 28 19	Elevator Equipment
14 28 19.13 14 28 19.16	Elevator Safety Equipment Elevator Hoistway Equipment
14 30 00	Escalators and Moving Walks
14 31 00	Escalators
14 32 00	Moving Walks
14 33 00	Moving Ramps
14 33 13	Motorized Ramps
14 33 16	Powered Ramps
14 40 00	Lifts
14 41 00	People Lifts
14 41 13	Counterbalanced People Lifts
14 41 16	Endless-Belt People Lifts
14 41 19	Stairway Chairlifts
14 42 00	Wheelchair Lifts
14 42 13	Inclined Wheelchair Lifts
14 42 16	Vertical Wheelchair Lifts
14 43 00	Platform Lifts
14 43 13 14 43 16	Orchestra Lifts Stage Lifts
14 43 10	Sidewalk Lifts

14 45 00	Vehicle Lifts
14 45 13	Vehicle Service Lifts
14 45 23	Vehicle Parking Lifts
14 46 00	Material Lifts
14 70 00	Turntables
14 71 00	Industrial Turntables
14 71 11	Vehicle Turntables
14 72 00	Hospitality Turntables
14 72 25	Restaurant Turntables
14 73 00	Exhibit Turntables
14 73 59	Display Turntables
14 74 00	Entertainment Turntables
14 74 61	Stage Turntables
14 80 00	Scaffolding
14 81 00	Suspended Scaffolding
14 81 13	Beam Scaffolding
14 81 16	Carriage Scaffolding
14 81 19	Hook Scaffolding
14 82 00	Rope Climbers
14 82 13	Manual Rope Climbers
14 82 16	Powered Rope Climbers
14 83 00	Elevating Platforms
14 83 13 14 83 13.13	Telescoping Platform Lifts
14 83 13.16	Electric and Battery Telescoping Platform Lifts Pneumatic Telescoping Platform Lifts
14 83 16	Scissor Lift Platforms
14 83 19	Multi-Axis Platform Lifts
14 84 00	Powered Scaffolding
14 84 13	Window Washing Scaffolding
14 84 23	Window Washing Hoists
14 90 00	Other Conveying Equipment
14 91 00	Facility Chutes
14 91 13	Coal Chutes
14 91 23	Escape Chutes
14 91 33	Laundry and Linen Chutes
14 91 82	Trash Chutes
14 92 00	Pneumatic Tube Systems
14 93 00	Slide Pole Systems
14 93 13	Firehouse Slide Poles
21 00 00	Fire Suppression
21 01 00	Operation and Maintenance of Fire Suppression
21 01 10	Operation and Maintenance of Water-Based Fire-Suppression Systems
21 01 20	Operation and Maintenance of Fire-Extinguishing Systems
21 01 30	Operation and Maintenance of Fire-Suppression Equipment

21 05 00	Common Work Results for Fire Suppression
21 05 05	Selective Demolition for Fire Suppression
21 05 13	Common Motor Requirements for Fire-Suppression Equipment
21 05 16	Expansion Fittings and Loops for Fire-Suppression Piping
21 05 17	Sleeves and Sleeve Seals for Fire-Suppression Piping
21 05 19	Meters and Gages for Fire-Suppression Systems
21 05 23 21 05 29	General-Duty Valves for Water-Based Fire-Suppression Piping Hangers and Supports for Fire-Suppression Piping and Equipment
21 05 33	Heat Tracing for Fire-Suppression Piping
21 05 48	Vibration and Seismic Controls for Fire-Suppression Piping and Equipment
21 05 48.13	Vibration Controls for Fire-Suppresion Piping and Equipment
21 05 53	Identification for Fire-Suppression Piping and Equipment
21 06 00	Schedules for Fire Suppression
21 06 10	Schedules for Water-Based Fire-Suppression Systems
21 06 20	Schedules for Fire-Extinguishing Systems
21 06 30	Schedules for Fire-Suppression Equipment
21 07 00	Fire Suppression Systems Insulation
21 07 16	Fire-Suppression Equipment Insulation
21 07 19	Fire-Suppression Piping Insulation
21 08 00	Commissioning of Fire Suppression
21 09 00	Instrumentation and Control for Fire-Suppression
	Systems
21 10 00	Water-Based Fire-Suppression Systems
21 11 00	Facility Fire-Suppression Water-Service Piping
21 11 16	Facility Fire Hydrants
21 11 19	Fire-Department Connections
21 12 00	Fire-Suppression Standpipes
21 12 13	Fire-Suppression Hoses and Nozzles
21 12 16	Fire-Suppression Hose Reels
21 12 19	Fire-Suppression Hose Racks
21 12 23	Fire-Suppression Hose Valves
21 13 00	Fire-Suppression Sprinkler Systems
21 13 13	Wet-Pipe Sprinkler Systems
21 13 16	Dry-Pipe Sprinkler Systems
21 13 19 21 13 23	Preaction Sprinkler Systems Combined Dry-Pipe and Preaction Sprinkler Systems
21 13 26	Deluge Fire-Suppression Sprinkler Systems
21 13 29	Water Spray Fixed Systems
21 13 36	Antifreeze Sprinkler Systems
21 13 39	Foam-Water Systems
21 16 00	Fire-Suppression Pressure Maintenance Pumps
21 20 00	Fire-Extinguishing Systems
21 21 00	Carbon-Dioxide Fire-Extinguishing Systems
21 21 13	Carbon-Dioxide Fire-Extinguishing Piping
21 21 13.13	High-Pressure, Carbon-Dioxide Fire-Extinguishing Systems
21 21 13.16	Low-Pressure, Carbon-Dioxide Fire-Extinguishing Systems
21 21 16	Carbon-Dioxide Fire-Extinguishing Equipment

21 22 00	Clean-Agent Fire-Extinguishing Systems
21 22 13	Clean-Agent Fire-Extinguishing Piping
21 22 16	Clean-Agent Fire-Extinguishing Equipment
21 23 00	Wet-Chemical Fire-Extinguishing Systems
21 23 13	Wet-Chemical Fire-Extinguishing Piping
21 23 16	Wet-Chemical Fire-Extinguishing Equipment
21 24 00	Dry-Chemical Fire-Extinguishing Systems
21 24 13	Dry-Chemical Fire-Extinguishing Piping
21 24 16	Dry-Chemical Fire-Extinguishing Equipment
21 30 00	Fire Pumps
21 31 00	Centrifugal Fire Pumps
21 31 13	Electric-Drive, Centrifugal Fire Pumps
21 31 16	Diesel-Drive, Centrifugal Fire Pumps
21 32 00	·
21 32 13	Vertical-Turbine Fire Pumps Electric-Drive, Vertical-Turbine Fire Pumps
21 32 16	Diesel-Drive, Vertical-Turbine Fire Pumps
21 33 00	Positive-Displacement Fire Pumps
21 33 13	Electric-Drive, Positive-Displacement Fire Pumps
21 33 16	Diesel-Drive, Positive-Displacement Fire Pumps
21 34 00	Fire Pump Accessories
21 34 13	Pressure Maintenance Pumps
21 40 00	Fire-Suppression Water Storage
21 41 00	Storage Tanks for Fire-Suppression Water
21 41 13	Pressurized Storage Tanks for Fire-Suppression Water
21 41 13 21 41 16	Pressurized Storage Tanks for Fire-Suppression Water Elevated Storage Tanks for Fire-Suppression Water
21 41 13 21 41 16 21 41 19	Pressurized Storage Tanks for Fire-Suppression Water Elevated Storage Tanks for Fire-Suppression Water Roof-Mounted Storage Tanks for Fire-Suppression Water
21 41 13 21 41 16 21 41 19 21 41 23	Pressurized Storage Tanks for Fire-Suppression Water Elevated Storage Tanks for Fire-Suppression Water Roof-Mounted Storage Tanks for Fire-Suppression Water Ground Suction Storage Tanks for Fire-Suppression Water
21 41 13 21 41 16 21 41 19 21 41 23 21 41 26	Pressurized Storage Tanks for Fire-Suppression Water Elevated Storage Tanks for Fire-Suppression Water Roof-Mounted Storage Tanks for Fire-Suppression Water Ground Suction Storage Tanks for Fire-Suppression Water Underground Storage Tanks for Fire-Suppression Water
21 41 13 21 41 16 21 41 19 21 41 23 21 41 26 21 41 29	Pressurized Storage Tanks for Fire-Suppression Water Elevated Storage Tanks for Fire-Suppression Water Roof-Mounted Storage Tanks for Fire-Suppression Water Ground Suction Storage Tanks for Fire-Suppression Water Underground Storage Tanks for Fire-Suppression Water Storage Tanks for Fire-Suppression Water Additives
21 41 13 21 41 16 21 41 19 21 41 23 21 41 26	Pressurized Storage Tanks for Fire-Suppression Water Elevated Storage Tanks for Fire-Suppression Water Roof-Mounted Storage Tanks for Fire-Suppression Water Ground Suction Storage Tanks for Fire-Suppression Water Underground Storage Tanks for Fire-Suppression Water
21 41 13 21 41 16 21 41 19 21 41 23 21 41 26 21 41 29	Pressurized Storage Tanks for Fire-Suppression Water Elevated Storage Tanks for Fire-Suppression Water Roof-Mounted Storage Tanks for Fire-Suppression Water Ground Suction Storage Tanks for Fire-Suppression Water Underground Storage Tanks for Fire-Suppression Water Storage Tanks for Fire-Suppression Water Additives
21 41 13 21 41 16 21 41 19 21 41 23 21 41 26 21 41 29 22 00 00 22 01 00 22 01 10	Pressurized Storage Tanks for Fire-Suppression Water Elevated Storage Tanks for Fire-Suppression Water Roof-Mounted Storage Tanks for Fire-Suppression Water Ground Suction Storage Tanks for Fire-Suppression Water Underground Storage Tanks for Fire-Suppression Water Storage Tanks for Fire-Suppression Water Additives Plumbing Operation and Maintenance of Plumbing Operation and Maintenance of Plumbing Piping and Pumps
21 41 13 21 41 16 21 41 19 21 41 23 21 41 26 21 41 29 22 00 00 22 01 00 22 01 10 22 01 10.16	Pressurized Storage Tanks for Fire-Suppression Water Elevated Storage Tanks for Fire-Suppression Water Roof-Mounted Storage Tanks for Fire-Suppression Water Ground Suction Storage Tanks for Fire-Suppression Water Underground Storage Tanks for Fire-Suppression Water Storage Tanks for Fire-Suppression Water Additives Plumbing Operation and Maintenance of Plumbing Operation and Maintenance of Plumbing Piping and Pumps Video Piping Inspections
21 41 13 21 41 16 21 41 19 21 41 23 21 41 26 21 41 29 22 00 00 22 01 00 22 01 10 22 01 10.16 22 01 10.51	Pressurized Storage Tanks for Fire-Suppression Water Elevated Storage Tanks for Fire-Suppression Water Roof-Mounted Storage Tanks for Fire-Suppression Water Ground Suction Storage Tanks for Fire-Suppression Water Underground Storage Tanks for Fire-Suppression Water Storage Tanks for Fire-Suppression Water Additives Plumbing Operation and Maintenance of Plumbing Operation and Maintenance of Plumbing Piping Inspections Plumbing Piping Cleaning
21 41 13 21 41 16 21 41 19 21 41 23 21 41 26 21 41 29 22 00 00 22 01 00 22 01 10 22 01 10.16 22 01 10.51 22 01 10.61	Pressurized Storage Tanks for Fire-Suppression Water Elevated Storage Tanks for Fire-Suppression Water Roof-Mounted Storage Tanks for Fire-Suppression Water Ground Suction Storage Tanks for Fire-Suppression Water Underground Storage Tanks for Fire-Suppression Water Storage Tanks for Fire-Suppression Water Additives Plumbing Operation and Maintenance of Plumbing Operation and Maintenance of Plumbing Piping Inspections Plumbing Piping Cleaning Plumbing Piping Repairs
21 41 13 21 41 16 21 41 19 21 41 23 21 41 26 21 41 29 22 00 00 22 01 00 22 01 10 22 01 10.16 22 01 10.51 22 01 10.61 22 01 10.62	Pressurized Storage Tanks for Fire-Suppression Water Elevated Storage Tanks for Fire-Suppression Water Roof-Mounted Storage Tanks for Fire-Suppression Water Ground Suction Storage Tanks for Fire-Suppression Water Underground Storage Tanks for Fire-Suppression Water Storage Tanks for Fire-Suppression Water Additives Plumbing Operation and Maintenance of Plumbing Operation and Maintenance of Plumbing Piping Inspections Plumbing Piping Cleaning Plumbing Piping Repairs Plumbing Piping Relining
21 41 13 21 41 16 21 41 19 21 41 23 21 41 26 21 41 29 22 00 00 22 01 00 22 01 10 22 01 10.16 22 01 10.51 22 01 10.61	Pressurized Storage Tanks for Fire-Suppression Water Elevated Storage Tanks for Fire-Suppression Water Roof-Mounted Storage Tanks for Fire-Suppression Water Ground Suction Storage Tanks for Fire-Suppression Water Underground Storage Tanks for Fire-Suppression Water Storage Tanks for Fire-Suppression Water Additives Plumbing Operation and Maintenance of Plumbing Operation and Maintenance of Plumbing Piping Inspections Plumbing Piping Cleaning Plumbing Piping Repairs
21 41 13 21 41 16 21 41 19 21 41 23 21 41 26 21 41 29 22 00 00 22 01 00 22 01 10 22 01 10.16 22 01 10.61 22 01 10.62 22 01 30	Pressurized Storage Tanks for Fire-Suppression Water Elevated Storage Tanks for Fire-Suppression Water Roof-Mounted Storage Tanks for Fire-Suppression Water Ground Suction Storage Tanks for Fire-Suppression Water Underground Storage Tanks for Fire-Suppression Water Storage Tanks for Fire-Suppression Water Additives Plumbing Operation and Maintenance of Plumbing Operation and Maintenance of Plumbing Piping Inspections Plumbing Piping Cleaning Plumbing Piping Repairs Plumbing Piping Relining Operation and Maintenance of Plumbing Equipment
21 41 13 21 41 16 21 41 19 21 41 23 21 41 26 21 41 29 22 00 00 22 01 00 22 01 10 22 01 10.16 22 01 10.61 22 01 10.61 22 01 30 22 01 40	Pressurized Storage Tanks for Fire-Suppression Water Elevated Storage Tanks for Fire-Suppression Water Roof-Mounted Storage Tanks for Fire-Suppression Water Ground Suction Storage Tanks for Fire-Suppression Water Underground Storage Tanks for Fire-Suppression Water Storage Tanks for Fire-Suppression Water Additives Plumbing Operation and Maintenance of Plumbing Operation and Maintenance of Plumbing Piping Inspections Plumbing Piping Cleaning Plumbing Piping Repairs Plumbing Piping Relining Operation and Maintenance of Plumbing Equipment Operation and Maintenance of Plumbing Fixtures Operation and Maintenance of Pool and Fountain Plumbing Systems Operation and Maintenance of Laboratory and Healthcare Systems
21 41 13 21 41 16 21 41 19 21 41 23 21 41 26 21 41 29 22 00 00 22 01 00 22 01 10 22 01 10.16 22 01 10.61 22 01 10.61 22 01 30 22 01 40 22 01 50	Pressurized Storage Tanks for Fire-Suppression Water Elevated Storage Tanks for Fire-Suppression Water Roof-Mounted Storage Tanks for Fire-Suppression Water Ground Suction Storage Tanks for Fire-Suppression Water Underground Storage Tanks for Fire-Suppression Water Storage Tanks for Fire-Suppression Water Additives Plumbing Operation and Maintenance of Plumbing Operation and Maintenance of Plumbing Piping and Pumps Video Piping Inspections Plumbing Piping Cleaning Plumbing Piping Repairs Plumbing Piping Relining Operation and Maintenance of Plumbing Equipment Operation and Maintenance of Plumbing Fixtures Operation and Maintenance of Pool and Fountain Plumbing Systems
21 41 13 21 41 16 21 41 19 21 41 23 21 41 26 21 41 29 22 00 00 22 01 00 22 01 10.16 22 01 10.61 22 01 10.61 22 01 30 22 01 40 22 01 50 22 01 60 22 05 05	Pressurized Storage Tanks for Fire-Suppression Water Elevated Storage Tanks for Fire-Suppression Water Roof-Mounted Storage Tanks for Fire-Suppression Water Ground Suction Storage Tanks for Fire-Suppression Water Underground Storage Tanks for Fire-Suppression Water Storage Tanks for Fire-Suppression Water Additives Plumbing Operation and Maintenance of Plumbing Operation and Maintenance of Plumbing Piping and Pumps Video Piping Inspections Plumbing Piping Cleaning Plumbing Piping Repairs Plumbing Piping Repairs Plumbing Piping Relining Operation and Maintenance of Plumbing Equipment Operation and Maintenance of Plumbing Fixtures Operation and Maintenance of Pool and Fountain Plumbing Systems Operation and Maintenance of Laboratory and Healthcare Systems Common Work Results for Plumbing Selective Demolition for Plumbing
21 41 13 21 41 16 21 41 19 21 41 23 21 41 26 21 41 29 22 00 00 22 01 00 22 01 10 22 01 10.16 22 01 10.61 22 01 10.61 22 01 30 22 01 40 22 01 50 22 01 60 22 05 05 22 05 13	Pressurized Storage Tanks for Fire-Suppression Water Elevated Storage Tanks for Fire-Suppression Water Roof-Mounted Storage Tanks for Fire-Suppression Water Ground Suction Storage Tanks for Fire-Suppression Water Underground Storage Tanks for Fire-Suppression Water Storage Tanks for Fire-Suppression Water Additives Plumbing Operation and Maintenance of Plumbing Operation and Maintenance of Plumbing Piping Inspections Plumbing Piping Cleaning Plumbing Piping Repairs Plumbing Piping Relining Operation and Maintenance of Plumbing Fixtures Operation and Maintenance of Pool and Fountain Plumbing Systems Operation and Maintenance of Laboratory and Healthcare Systems Common Work Results for Plumbing Selective Demolition for Plumbing Common Motor Requirements for Plumbing Equipment
21 41 13 21 41 16 21 41 19 21 41 23 21 41 26 21 41 29 22 00 00 22 01 00 22 01 10.16 22 01 10.51 22 01 10.61 22 01 30 22 01 30 22 01 50 22 01 60 22 05 05 22 05 13 22 05 16	Pressurized Storage Tanks for Fire-Suppression Water Elevated Storage Tanks for Fire-Suppression Water Roof-Mounted Storage Tanks for Fire-Suppression Water Ground Suction Storage Tanks for Fire-Suppression Water Underground Storage Tanks for Fire-Suppression Water Storage Tanks for Fire-Suppression Water Additives Plumbing Operation and Maintenance of Plumbing Operation and Maintenance of Plumbing Piping and Pumps Video Piping Inspections Plumbing Piping Cleaning Plumbing Piping Repairs Plumbing Piping Relining Operation and Maintenance of Plumbing Equipment Operation and Maintenance of Plumbing Fixtures Operation and Maintenance of Pool and Fountain Plumbing Systems Operation and Maintenance of Laboratory and Healthcare Systems Common Work Results for Plumbing Selective Demolition for Plumbing Common Motor Requirements for Plumbing Equipment Expansion Fittings and Loops for Plumbing Piping
21 41 13 21 41 16 21 41 19 21 41 23 21 41 26 21 41 29 22 00 00 22 01 00 22 01 10 22 01 10.16 22 01 10.61 22 01 10.61 22 01 30 22 01 40 22 01 50 22 01 60 22 05 05 22 05 13	Pressurized Storage Tanks for Fire-Suppression Water Elevated Storage Tanks for Fire-Suppression Water Roof-Mounted Storage Tanks for Fire-Suppression Water Ground Suction Storage Tanks for Fire-Suppression Water Underground Storage Tanks for Fire-Suppression Water Storage Tanks for Fire-Suppression Water Additives Plumbing Operation and Maintenance of Plumbing Operation and Maintenance of Plumbing Piping Inspections Plumbing Piping Cleaning Plumbing Piping Repairs Plumbing Piping Relining Operation and Maintenance of Plumbing Fixtures Operation and Maintenance of Pool and Fountain Plumbing Systems Operation and Maintenance of Laboratory and Healthcare Systems Common Work Results for Plumbing Selective Demolition for Plumbing Common Motor Requirements for Plumbing Equipment

	22 05 23	General-Duty Valves for Plumbing Piping
	22 05 29	Hangers and Supports for Plumbing Piping and Equipment
	22 05 33	Heat Tracing for Plumbing Piping
	22 05 48	Vibration and Seismic Controls for Plumbing Piping and Equipment
	22 05 48.13	Vibration Controls for Plumbing Piping and Equipment
	22 05 53	Identification for Plumbing Piping and Equipment
	22 05 73	Facility Drainage Manholes
	22 05 76	Facility Drainage Piping Cleanouts
22 (06 00	Schedules for Plumbing
	22 06 10	Schedules for Plumbing Piping and Pumps
	22 06 10.13	Plumbing Pump Schedule
	22 06 12	Schedules for Facility Potable Water Storage
	22 06 15	Schedules for General Service Compressed-Air Equipment
	22 06 30	Schedules for Plumbing Equipment
	22 06 30.13	Domestic Water Heater Schedule
	22 06 40	Schedules for Plumbing Fixtures
	22 06 40.13	Plumbing Fixture Schedule
	22 06 50	Schedules for Pool and Fountain Plumbing Systems
	22 06 60	Schedules for Laboratory and Healthcare Systems
22 (07 00	Plumbing Insulation
	22 07 16	Plumbing Equipment Insulation
	22 07 19	Plumbing Piping Insulation
22 (08 00	Commissioning of Plumbing
	09 00	Instrumentation and Control for Plumbing
22 (22 09 63	Medical Gas Alarms
	22 03 03	Medical Cas Alainis
00	40.00	Disconding of Discission
22	10 00	Plumbing Piping
	10 00 11 00	• . •
		Facility Water Distribution
	11 00 22 11 13	Facility Water Distribution Facility Water Distribution Piping
	11 00 22 11 13 22 11 16	Facility Water Distribution Facility Water Distribution Piping Domestic Water Piping
	11 00 22 11 13	Facility Water Distribution Facility Water Distribution Piping Domestic Water Piping Gray-Water Piping
	11 00 22 11 13 22 11 16 22 11 17	Facility Water Distribution Facility Water Distribution Piping Domestic Water Piping
	11 00 22 11 13 22 11 16 22 11 17 22 11 19	Facility Water Distribution Facility Water Distribution Piping Domestic Water Piping Gray-Water Piping Domestic Water Piping Specialties
	11 00 22 11 13 22 11 16 22 11 17 22 11 19 22 11 23 22 11 23.13 22 11 23.23	Facility Water Distribution Facility Water Distribution Piping Domestic Water Piping Gray-Water Piping Domestic Water Piping Specialties Domestic Water Pumps Domestic-Water Packaged Booster Pumps Domestic-Water In-Line Pumps
	11 00 22 11 13 22 11 16 22 11 17 22 11 19 22 11 23 22 11 23.13 22 11 23.23 22 11 23.26	Facility Water Distribution Facility Water Distribution Piping Domestic Water Piping Gray-Water Piping Domestic Water Piping Specialties Domestic Water Pumps Domestic-Water Packaged Booster Pumps Domestic-Water In-Line Pumps Close-Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps
	22 11 13 22 11 16 22 11 17 22 11 19 22 11 23 22 11 23.13 22 11 23.23 22 11 23.26 22 11 23.29	Facility Water Distribution Facility Water Distribution Piping Domestic Water Piping Gray-Water Piping Domestic Water Piping Specialties Domestic Water Pumps Domestic-Water Packaged Booster Pumps Domestic-Water In-Line Pumps Close-Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps Close-Coupled, Vertically Mounted, In-Line Centrifugal Domestic-Water Pumps
	22 11 13 22 11 16 22 11 17 22 11 19 22 11 23 22 11 23.13 22 11 23.23 22 11 23.26 22 11 23.29 22 11 23.33	Facility Water Distribution Facility Water Distribution Piping Domestic Water Piping Gray-Water Piping Domestic Water Piping Specialties Domestic Water Pumps Domestic-Water Packaged Booster Pumps Domestic-Water In-Line Pumps Close-Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps Close-Coupled, Vertically Mounted, In-Line Centrifugal Domestic-Water Pumps Separately Coupled, In-Line Centrifugal Domestic-Water Pumps
	22 11 13 22 11 16 22 11 17 22 11 19 22 11 23 22 11 23.13 22 11 23.23 22 11 23.26 22 11 23.29	Facility Water Distribution Facility Water Distribution Piping Domestic Water Piping Gray-Water Piping Domestic Water Piping Specialties Domestic Water Pumps Domestic-Water Packaged Booster Pumps Domestic-Water Packaged Booster Pumps Close-Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps Close-Coupled, Vertically Mounted, In-Line Centrifugal Domestic-Water Pumps Separately Coupled, In-Line Centrifugal Domestic-Water Pumps Separately Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water
	22 11 13 22 11 16 22 11 17 22 11 19 22 11 23 22 11 23.13 22 11 23.23 22 11 23.23 22 11 23.29 22 11 23.33 22 11 23.36	Facility Water Distribution Facility Water Distribution Piping Domestic Water Piping Gray-Water Piping Domestic Water Piping Specialties Domestic Water Pumps Domestic-Water Packaged Booster Pumps Domestic-Water Packaged Booster Pumps Close-Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps Close-Coupled, Vertically Mounted, In-Line Centrifugal Domestic-Water Pumps Separately Coupled, In-Line Centrifugal Domestic-Water Pumps Separately Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps
	22 11 13 22 11 16 22 11 17 22 11 19 22 11 23 22 11 23.13 22 11 23.23 22 11 23.26 22 11 23.29 22 11 23.33	Facility Water Distribution Facility Water Distribution Piping Domestic Water Piping Gray-Water Piping Domestic Water Piping Specialties Domestic Water Pumps Domestic-Water Packaged Booster Pumps Domestic-Water In-Line Pumps Close-Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps Close-Coupled, Vertically Mounted, In-Line Centrifugal Domestic-Water Pumps Separately Coupled, In-Line Centrifugal Domestic-Water Pumps Separately Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps Domestic-Water, Base-Mounted Pumps
22	22 11 13 22 11 16 22 11 17 22 11 19 22 11 23 22 11 23.13 22 11 23.23 22 11 23.26 22 11 23.29 22 11 23.33 22 11 23.36 22 11 23.36 22 11 23.43 22 11 63	Facility Water Distribution Facility Water Distribution Piping Domestic Water Piping Gray-Water Piping Domestic Water Piping Specialties Domestic Water Pumps Domestic-Water Packaged Booster Pumps Domestic-Water In-Line Pumps Close-Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps Close-Coupled, Vertically Mounted, In-Line Centrifugal Domestic-Water Pumps Separately Coupled, In-Line Centrifugal Domestic-Water Pumps Separately Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps Domestic-Water, Base-Mounted Pumps Gray-Water Pumps
22	22 11 13 22 11 16 22 11 17 22 11 19 22 11 23 22 11 23.13 22 11 23.23 22 11 23.23 22 11 23.26 22 11 23.29 22 11 23.33 22 11 23.36 22 11 23.43 22 11 63 12 00	Facility Water Distribution Facility Water Distribution Piping Domestic Water Piping Gray-Water Piping Domestic Water Piping Specialties Domestic Water Pumps Domestic-Water Packaged Booster Pumps Domestic-Water In-Line Pumps Close-Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps Close-Coupled, Vertically Mounted, In-Line Centrifugal Domestic-Water Pumps Separately Coupled, In-Line Centrifugal Domestic-Water Pumps Separately Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps Domestic-Water, Base-Mounted Pumps Gray-Water Pumps Facility Potable-Water Storage Tanks
22	22 11 13 22 11 16 22 11 17 22 11 19 22 11 23 22 11 23.13 22 11 23.23 22 11 23.23 22 11 23.26 22 11 23.33 22 11 23.36 22 11 23.36 22 11 23.43 22 11 63 12 00 22 12 13	Facility Water Distribution Facility Water Distribution Piping Domestic Water Piping Gray-Water Piping Domestic Water Piping Specialties Domestic Water Pumps Domestic-Water Packaged Booster Pumps Domestic-Water In-Line Pumps Close-Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps Close-Coupled, Vertically Mounted, In-Line Centrifugal Domestic-Water Pumps Separately Coupled, In-Line Centrifugal Domestic-Water Pumps Separately Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps Domestic-Water, Base-Mounted Pumps Gray-Water Pumps Facility Potable-Water Storage Tanks Facility Roof-Mounted, Potable-Water Storage Tanks
22	22 11 13 22 11 16 22 11 17 22 11 19 22 11 23 22 11 23.13 22 11 23.23 22 11 23.23 22 11 23.26 22 11 23.33 22 11 23.36 22 11 23.36 22 11 23.43 22 11 63 12 00 22 12 13 22 12 16	Facility Water Distribution Facility Water Distribution Piping Domestic Water Piping Gray-Water Piping Domestic Water Piping Specialties Domestic Water Pumps Domestic-Water Packaged Booster Pumps Domestic-Water In-Line Pumps Close-Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps Close-Coupled, Vertically Mounted, In-Line Centrifugal Domestic-Water Pumps Separately Coupled, In-Line Centrifugal Domestic-Water Pumps Separately Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps Domestic-Water, Base-Mounted Pumps Gray-Water Pumps Facility Potable-Water Storage Tanks Facility Roof-Mounted, Potable-Water Storage Tanks Facility Elevated, Potable-Water Storage Tanks
22	22 11 13 22 11 16 22 11 17 22 11 19 22 11 23 22 11 23.13 22 11 23.23 22 11 23.26 22 11 23.29 22 11 23.33 22 11 23.36 22 11 23.36 22 11 23.43 22 11 63 12 00 22 12 13 22 12 16 22 12 19	Facility Water Distribution Facility Water Distribution Piping Domestic Water Piping Gray-Water Piping Domestic Water Piping Specialties Domestic Water Pumps Domestic-Water Packaged Booster Pumps Domestic-Water In-Line Pumps Close-Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps Close-Coupled, Vertically Mounted, In-Line Centrifugal Domestic-Water Pumps Separately Coupled, In-Line Centrifugal Domestic-Water Pumps Separately Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps Separately Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps Facility Potable-Water Storage Tanks Facility Potable-Water Storage Tanks Facility Ground-Mounted, Potable-Water Storage Tanks Facility Ground-Mounted, Potable-Water Storage Tanks
22	22 11 13 22 11 16 22 11 17 22 11 19 22 11 23 22 11 23.13 22 11 23.23 22 11 23.26 22 11 23.29 22 11 23.33 22 11 23.36 22 11 23.36 22 11 23.43 22 11 63 12 00 22 12 13 22 12 16 22 12 19 22 12 19 22 12 21	Facility Water Distribution Facility Water Distribution Piping Domestic Water Piping Gray-Water Piping Domestic Water Piping Specialties Domestic Water Pumps Domestic-Water Packaged Booster Pumps Domestic-Water In-Line Pumps Close-Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps Close-Coupled, Vertically Mounted, In-Line Centrifugal Domestic-Water Pumps Separately Coupled, In-Line Centrifugal Domestic-Water Pumps Separately Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps Domestic-Water, Base-Mounted Pumps Gray-Water Pumps Facility Potable-Water Storage Tanks Facility Roof-Mounted, Potable-Water Storage Tanks Facility Ground-Mounted, Potable-Water Storage Tanks Facility Underground Potable-Water Storage Tanks
22	22 11 13 22 11 16 22 11 17 22 11 19 22 11 23 22 11 23.13 22 11 23.23 22 11 23.26 22 11 23.29 22 11 23.33 22 11 23.36 22 11 23.36 22 11 23.43 22 11 63 12 00 22 12 13 22 12 16 22 12 19 22 12 21 22 12 23	Facility Water Distribution Facility Water Distribution Piping Domestic Water Piping Gray-Water Piping Domestic Water Piping Specialties Domestic Water Packaged Booster Pumps Domestic-Water Packaged Booster Pumps Domestic-Water In-Line Pumps Close-Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps Close-Coupled, Vertically Mounted, In-Line Centrifugal Domestic-Water Pumps Separately Coupled, In-Line Centrifugal Domestic-Water Pumps Separately Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps Domestic-Water, Base-Mounted Pumps Gray-Water Pumps Facility Potable-Water Storage Tanks Facility Roof-Mounted, Potable-Water Storage Tanks Facility Ground-Mounted, Potable-Water Storage Tanks Facility Underground Potable-Water Storage Tanks Facility Indeor Potable-Water Storage Tanks
22	22 11 13 22 11 16 22 11 17 22 11 19 22 11 23 22 11 23.13 22 11 23.23 22 11 23.26 22 11 23.29 22 11 23.33 22 11 23.36 22 11 23.36 22 11 23.43 22 11 63 12 00 22 12 13 22 12 16 22 12 19 22 12 21 22 12 23 22 12 23.13	Facility Water Distribution Facility Water Distribution Piping Domestic Water Piping Gray-Water Piping Domestic Water Piping Specialties Domestic Water Pumps Domestic-Water Packaged Booster Pumps Domestic-Water In-Line Pumps Close-Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps Close-Coupled, Vertically Mounted, In-Line Centrifugal Domestic-Water Pumps Separately Coupled, In-Line Centrifugal Domestic-Water Pumps Separately Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps Domestic-Water, Base-Mounted Pumps Gray-Water Pumps Facility Potable-Water Storage Tanks Facility Roof-Mounted, Potable-Water Storage Tanks Facility Ground-Mounted, Potable-Water Storage Tanks Facility Underground Potable-Water Storage Tanks Facility Indoor Potable-Water Storage Tanks Facility Steel, Indoor Potable-Water Storage Pressure Tanks
22	22 11 13 22 11 16 22 11 17 22 11 19 22 11 23 22 11 23.13 22 11 23.23 22 11 23.26 22 11 23.29 22 11 23.33 22 11 23.36 22 11 23.36 22 11 23.43 22 11 63 12 00 22 12 13 22 12 16 22 12 19 22 12 21 22 12 23	Facility Water Distribution Facility Water Distribution Piping Domestic Water Piping Gray-Water Piping Domestic Water Piping Specialties Domestic Water Packaged Booster Pumps Domestic-Water Packaged Booster Pumps Domestic-Water In-Line Pumps Close-Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps Close-Coupled, Vertically Mounted, In-Line Centrifugal Domestic-Water Pumps Separately Coupled, In-Line Centrifugal Domestic-Water Pumps Separately Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps Domestic-Water, Base-Mounted Pumps Gray-Water Pumps Facility Potable-Water Storage Tanks Facility Roof-Mounted, Potable-Water Storage Tanks Facility Ground-Mounted, Potable-Water Storage Tanks Facility Underground Potable-Water Storage Tanks Facility Indeor Potable-Water Storage Tanks

22 12 23.26	Facility Plastic, Indoor Potable-Water Storage Non-Pressure Tanks
22 13 00	Facility Sanitary Sewerage
22 13 13	Facility Sanitary Sewers
22 13 16	Sanitary Waste and Vent Piping
22 13 19	Sanitary Waste Piping Specialties
22 13 19.13	•
22 13 19.23	
22 13 19.26 22 13 19.33	
22 13 19.36	
22 13 23	Sanitary Waste Interceptors
22 13 26	Sanitary Waste Separators
22 13 29	Sanitary Sewerage Pumps
22 13 29.13	Wet-Pit-Mounted, Vertical Sewerage Pumps
22 13 29.16	<u> </u>
22 13 29.23	5 1
22 13 29.33 22 13 33	ŭ i
22 13 36	Packaged, Submersible Sewerage Pump Units Packaged, Wastewater Pump Units
22 13 30	Facility Packaged Sewage Pumping Stations
22 13 43.13	
22 13 43.16	, , , , , , , , , , , , , , , , , , , ,
22 13 63	Facility Gray Water Tanks
22 14 00	Facility Storm Drainage
22 14 13	Facility Storm Drainage Piping
22 14 16	Rainwater Leaders
22 14 19	Sump Pump Discharge Piping
22 14 23	Storm Drainage Piping Specialties
22 14 26	Facility Storm Drains
22 14 26.13	
22 14 26.16	•
22 14 26.19 22 14 29	Facility Trench Drains Sump Pumps
22 14 29.13	•
22 14 29.16	, , ,
22 14 29.19	
22 14 33	Packaged, Pedestal Drainage Pump Units
22 14 36	Packaged, Submersible, Drainage Pump Units
22 14 53	Rainwater Storage Tanks
22 14 63	Facility Storm-Water Retention Tanks
22 15 00	General Service Compressed-Air Systems
22 15 13	General Service Compressed-Air Piping
22 15 16	General Service Compressed-Air Valves
22 15 19	General Service Packaged Air Compressors and Receivers
22 15 19.13 22 15 19.16	3 1 3 1
22 15 19.10	
22 15 19.13	, , , , , , , , , , , , , , , , , , , ,
22 30 00	Plumbing Equipment
	• • •
22 31 00	Domestic Water Softeners
22 31 13	Residential Domestic Water Softeners

22 31 16 22 32 00 22 32 13 22 32 16	Commercial Domestic Water Softeners Domestic Water Filtration Equipment Domestic-Water Bag-Type Filters Domestic-Water Freestanding Cartridge Filters
22 32 19	Domestic-Water Off-Floor Cartridge Filters
22 32 23	Domestic-Water Carbon Filters
22 32 26	Domestic-Water Sand Filters
22 32 26.13	Domestic-Water Circulating Sand Filters
22 32 26.16	Domestic-Water Multimedia Sand Filters
22 32 26.19	Domestic-Water Greensand Filters
22 33 00	Electric Domestic Water Heaters
22 33 13	Instantaneous Electric Domestic Water Heaters
22 33 13.13	Flow-Control, Instantaneous Electric Domestic Water Heaters
22 33 13.16	Thermostat-Control, Instantaneous Electric Domestic Water Heaters
22 33 30	Residential, Electric Domestic Water Heaters
22 33 30.13	Residential, Small-Capacity Electric Domestic Water Heaters
22 33 30.16	Residential, Storage Electric Domestic Water Heaters
22 33 30.23	Residential, Collector-to-Tank, Solar-Electric Domestic Water Heaters
22 33 30.26	Residential, Collector-to-Tank, Heat-Exchanger-Coil, Solar-Electric Domestic Water Heaters
22 33 33	Light-Commercial Electric Domestic Water Heaters
22 33 36	Commercial Domestic Water Electric Booster Heaters
22 33 36.13	Commercial Domestic Water Electric Booster Heaters
22 33 36.16	Commercial Storage Electric Domestic Water Heaters
22 34 00	Fuel-Fired Domestic Water Heaters
22 34 13	Instantaneous, Tankless, Gas Domestic Water Heaters
22 34 30	Residential Gas Domestic Water Heaters
22 34 30.13	Residential, Atmospheric, Gas Domestic Water Heaters
22 34 30.16	Residential, Direct-Vent, Gas Domestic Water Heaters
22 34 30.19	Residential, Power-Vent, Gas Domestic Water Heaters
22 34 36	Commercial Gas Domestic Water Heaters
22 34 36.13	Commercial, Atmospheric, Gas Domestic Water Heaters
22 34 36.16	Commercial, Power-Burner, Gas Domestic Water Heaters
22 34 36.19	Commercial, Power-Vent, Gas Domestic Water Heaters
22 34 36.23 22 34 36.26	Commercial, High-Efficiency, Gas Domestic Water Heaters Commercial, Coil-Type, Finned-Tube, Gas Domestic Water Heaters
22 34 36.29	Commercial, Grid-Type, Finned-Tube, Gas Domestic Water Heaters
22 34 46	Oil-Fired Domestic Water Heaters
22 34 46.13	Large-Capacity, Oil-Fired Domestic Water Heaters
22 34 56	Dual-Fuel-Fired Domestic Water Heaters
22 35 00	Domestic Water Heat Exchangers
22 35 13	Instantaneous Domestic Water Heat Exchangers
22 35 13.13	Heating-Fluid-in-Coil, Instantaneous Domestic Water Heat Exchangers
22 35 13.16	Domestic-Water-in-Coil, Instantaneous Domestic Water Heat Exchangers
22 35 13.19	Heating-Fluid-in-U-Tube-Coil, Instantaneous Domestic Water Heat Exchangers
22 35 23	Circulating, Domestic Water Heat Exchangers
22 35 23.13	Circulating, Compact Domestic Water Heat Exchangers
22 35 23.16	Circulating, Storage Domestic Water Heat Exchangers
22 35 29	Noncirculating, Domestic Water Heat Exchangers
22 35 29.13	Noncirculating, Compact Domestic Water Heat Exchangers
22 35 29.16 22 35 36	Noncirculating, Storage Domestic Water Heat Exchangers Domestic Water Brazed-Plate Heat Exchangers
ZZ 30 30	Domestic water Diazeu-Flate Heat Exchangers

22 35 39 22 35 43	Domestic Water Frame-and-Plate Heat Exchangers Domestic Water Heat Reclaimers
22 36 00	Domestic Water Preheaters
22 36 13	Solar Domestic Water Preheaters
22 36 23	Geothermal Domestic Water Preheaters
22 40 00	Plumbing Fixtures
22 41 00	Residential Plumbing Fixtures
22 41 13	Residential Water Closets, Urinals, and Bidets
22 41 13.13	Residential Water Closets
22 41 13.16	Residential Urinals
22 41 13.19	Residential Bidets
22 41 16	Residential Lavatories and Sinks
22 41 16.13	Residential Lavatories
22 41 16.16	Residential Sinks
22 41 19	Residential Bathtubs
22 41 23	Residential Showers
22 41 26	Residential Disposers
22 41 36 22 41 39	Residential Laundry Trays
	Residential Faucets, Supplies, and Trim
22 42 00	Commercial Plumbing Fixtures
22 42 13	Commercial Water Closets, Urinals, and Bidets
22 42 13.13	Commercial Water Closets
22 42 13.16 22 42 16	Commercial Urinals Commercial Lavatories and Sinks
22 42 16.13	Commercial Lavatories
22 42 16.16	Commercial Sinks
22 42 19	Commercial Bathtubs
22 42 23	Commercial Showers
22 42 26	Commercial Disposers
22 42 29	Shampoo Bowls
22 42 33	Wash Fountains
22 42 36	Commercial Laundry Trays
22 42 39	Commercial Faucets, Supplies, and Trim
22 42 43	Flushometers
22 43 00	Healthcare Plumbing Fixtures
22 43 13	Healthcare Water Closets
22 43 16	Healthcare Sinks
22 43 19	Healthcare Bathtubs
22 43 23	Healthcare Showers
22 43 39	Healthcare Faucets
22 43 43	Healthcare Plumbing Fixture Flushometers
22 45 00	Emergency Plumbing Fixtures
22 45 13	Emergency Showers
22 45 16	Eyewash Équipment
22 45 19	Self-Contained Eyewash Equipment
22 45 23	Personal Eyewash Equipment
22 45 26	Eye/Face Wash Equipment
22 45 29	Hand-Held Emergency Drench Hoses
22 45 33	Combination Emergency Fixture Units
22 45 36	Emergency Fixture Water-Tempering Equipment

22 46 00	Security Plumbing Fixtures
22 46 13	Security Water Closets and Urinals
22 46 13.13	Security Water Closets
22 46 13.16	Security Urinals
22 46 16	Security Lavatories and Sinks
22 46 16.13	Security Lavatories
22 46 16.16	Security Sinks
22 46 19	Security Showers
22 46 39	Security Faucets, Supplies, and Trim
22 46 43	Security Plumbing Fixture Flushometers
22 46 53	Security Plumbing Fixture Supports
22 47 00	Drinking Fountains and Water Coolers
22 47 13	Drinking Fountains
22 47 16	Pressure Water Coolers
22 47 19 22 47 23	Water-Station Water Coolers Remote Water Coolers
22 50 00	Pool and Fountain Plumbing Systems
22 51 00	Swimming Pool Plumbing Systems
22 51 13	Swimming Pool Piping
22 51 16	Swimming Pool Pumps
22 51 19	Swimming Pool Water Treatment Equipment
22 51 23	Swimming Pool Equipment Controls
22 52 00	Fountain Plumbing Systems
22 52 13	Fountain Piping
22 52 16	Fountain Pumps
22 52 19	Fountain Water Treatment Equipment
22 52 23	Fountain Equipment Controls
22 60 00	Gas and Vacuum Systems for Laboratory
	and Healthcare Facilities
22 61 00	Compressed-Air Systems for Laboratory and
	Healthcare Facilities
22 61 13	Compressed-Air Piping for Laboratory and Healthcare Facilities
22 61 13.53	Laboratory Compressed-Air Piping
22 61 13.70	Healthcare Compressed-Air Piping
22 61 13.74	Dental Compressed-Air Piping
22 61 19 22 61 19.53	Compressed-Air Equipment for Laboratory and Healthcare Facilities Laboratory Compressed-Air Equipment
22 61 19.70	Healthcare Compressed-Air Equipment
22 61 19.74	Dental Compressed-Air Equipment
22 62 00	Vacuum Systems for Laboratory and Healthcare
	Facilities
22 62 13	
22 62 13.53	Vacuum Piping for Laboratory and Healthcare Facilities Laboratory Vacuum Piping
22 62 13.70	Healthcare, Surgical Vacuum Piping
22 62 13.74	Dental Vacuum Piping
22 62 19	Vacuum Equipment for Laboratory and Healthcare Facilities
22 62 19.53	Laboratory Vacuum Equipment
22 62 19.70	Healthcare Vacuum Equipment

	22 62 19.74	Dental Vacuum and Evacuation Equipment
	22 62 23	Waste Anesthesia-Gas Piping
22	63 00	Gas Systems for Laboratory and Healthcare Facilities
	22 63 13	Gas Piping for Laboratory and Healthcare Facilities
	22 63 13.53	Laboratory Gas Piping
	22 63 13.70	Healthcare Gas Piping
	22 63 19	Gas Storage Tanks for Laboratory and Healthcare Facilities
	22 63 19.53	Laboratory Gas Storage Tanks
20	22 63 19.70	Healthcare Gas Storage Tanks
22	66 00	Chemical-Waste Systems for Laboratory and
		Healthcare Facilities
	22 66 53	Laboratory Chemical-Waste and Vent Piping
	22 66 70	Healthcare Chemical-Waste and Vent Piping
	22 66 83	Chemical-Waste Tanks
	22 66 83.13	Chemical-Waste Dilution Tanks
20	22 66 83.16	Chemical-Waste Neutralization Tanks
22	67 00	Processed Water Systems for Laboratory and
		Healthcare Facilities
	22 67 13	Processed Water Piping for Laboratory and Healthcare Facilities
	22 67 13.13	Distilled-Water Piping
	22 67 13.16 22 67 13.19	Reverse-Osmosis Water Piping
	22 67 13.19	Deionized-Water Piping Processed Water Equipment for Laboratory and Healthcare Facilities
	22 67 19.13	Distilled-Water Equipment
	22 67 19.16	Reverse-Osmosis Water Equipment
	22 67 19.19	Deionized-Water Equipment
23	00 00	
ZJ		Heating, Ventilating, and Air
		Conditioning (HVAC)
23	01 00	Operation and Maintenance of HVAC Systems
	23 01 10	Operation and Maintenance of Facility Fuel Systems
	23 01 20	Operation and Maintenance of HVAC Piping and Pumps
	23 01 30	Operation and Maintenance of HVAC Air Distribution
	23 01 30.51	HVAC Air-Distribution System Cleaning
	23 01 50	Operation and Maintenance of Central Heating Equipment
	23 01 60	Operation and Maintenance of Central Cooling Equipment
	23 01 60.71	Refrigerant Recovery/Recycling
	23 01 70	Operation and Maintenance of Central HVAC Equipment
	23 01 80	Operation and Maintenance of Decentralized HVAC Equipment
	23 01 90	Diagnostic Systems for HVAC
23	05 00	Common Work Results for HVAC
	23 05 05	Selective Demolition for Heating, Ventilating, and Air Conditioning (HVAC)
	23 05 13	Common Motor Requirements for HVAC Equipment
	23 05 16	Expansion Fittings and Loops for HVAC Piping
	23 05 17	Sleeves and Sleeve Seals for HVAC Piping
	23 05 19	Meters and Gages for HVAC Piping
	23 05 23	General-Duty Valves for HVAC Piping
	23 05 29	Hangers and Supports for HVAC Piping and Equipment
	23 05 33	Heat Tracing for HVAC Piping
	23 05 48	Vibration and Seismic Controls for HVAC

	23 05 48.13	Vibration Controls for HVAC
	23 05 53	Identification for HVAC Piping and Equipment
	23 05 63	Anti-Microbial Coatings for HVAC Ducts and Equipment
	23 05 66	Anti-Microbial Ultraviolet Emitters for HVAC Ducts and Equipment
	23 05 93	Testing, Adjusting, and Balancing for HVAC
23	06 00	Schedules for HVAC
	23 06 10	Schedules for Facility Fuel Service Systems
	23 06 20	Schedules for HVAC Piping and Pumps
	23 06 20.13	Hydronic Pump Schedule
	23 06 30	Schedules for HVAC Air Distribution
	23 06 30.13	
	23 06 30.16	
	23 06 30.19	Air Outlet and Inlet Schedule
	23 06 30.23	HVAC Air Cleaning Device Schedule
	23 06 50	Schedules for Central Heating Equipment
	23 06 50.13	Heating Boiler Schedule
	23 06 60	Schedules for Central Cooling Equipment
	23 06 60.13	Refrigerant Condenser Schedule
	23 06 60.16	Packaged Water Chiller Schedule
	23 06 70	Schedules for Central HVAC Equipment
	23 06 70.13	Indoor, Central-Station Air-Handling Unit Schedule
	23 06 70.16	Packaged Outdoor HVAC Equipment Schedule
	23 06 80	Schedules for Decentralized HVAC Equipment
	23 06 80.13	Decentralized Unitary HVAC Equipment Schedule
	23 06 80.16	Convection Heating and Cooling Unit Schedule
00	23 06 80.19	Radiant Heating Unit Schedule
23	07 00	HVAC Insulation
	23 07 13	Duct Insulation
	23 07 16	HVAC Equipment Insulation
	23 07 19	HVAC Piping Insulation
23	08 00	Commissioning of HVAC
23	09 00	Instrumentation and Control for HVAC
	23 09 13	Instrumentation and Control Devices for HVAC
	23 09 13.13	Actuators and Operators
	23 09 13.23	Sensors and Transmitters
	23 09 13.33	Control Valves
	23 09 13.43	Control Dampers
	23 09 23	Direct-Digital Control System for HVAC
	23 09 23.11	Control Valves
	23 09 23.12	Control Dampers
	23 09 23.13	Energy Meters
	23 09 23.14	Flow Instruments
	23 09 23.16 23 09 23.17	Gas Instruments Level Instruments
	23 09 23.17	Leak Detection Instruments
	23 09 23.19	Moisture Instruments
	23 09 23.21	Motion Instruments
	23 09 23.22	Position Instruments
	23 09 23.23	Pressure Instruments
	23 09 23.24	Speed Instruments
	23 09 23.27	Temperature Instruments
	23 09 23.33	Vibration Instruments
	23 09 23.43	Weather Stations

	23 09 33	Electric and Electronic Control System for HVAC
	23 09 43	Pneumatic Control System for HVAC
	23 09 53 23 09 93	Pneumatic and Electric Control System for HVAC Sequence of Operations for HVAC Controls
	23 09 93.11	Sequence of Operations for HVAC DDC
23	10 00	Facility Fuel Systems
23	11 00	Facility Fuel Piping
	23 11 13	Facility Fuel-Oil Piping
	23 11 16	Facility Gasoline Piping
	23 11 23	Facility Natural-Gas Piping
	23 11 26	Facility Liquefied-Petroleum Gas Piping
23	12 00	Facility Fuel Pumps
	23 12 13	Facility Fuel-Oil Pumps
	23 12 16	Facility Gasoline Dispensing Pumps
	23 12 26	Facility Liquefied-Petroleum Gas Pumps
23	13 00	Facility Fuel-Storage Tanks
	23 13 13	Facility Underground Fuel-Oil, Storage Tanks
	23 13 13.13	Double-Wall Steel, Underground Fuel-Oil, Storage Tanks
	23 13 13.16	Composite, Steel, Underground Fuel-Oil, Storage Tanks
	23 13 13.19 23 13 13.23	Jacketed, Steel, Underground Fuel-Oil, Storage Tanks Glass-Fiber-Reinforced-Plastic, Underground Fuel-Oil, Storage Tanks
	23 13 13.33	Fuel-Oil Storage Tank Pumps
	23 13 23	Facility Aboveground Fuel-Oil, Storage Tanks
	23 13 23.13	Vertical, Steel, Aboveground Fuel-Oil, Storage Tanks
	23 13 23.16	Horizontal, Steel, Aboveground Fuel-Oil, Storage Tanks
	23 13 23.19	Containment-Dike, Steel, Aboveground Fuel-Oil, Storage Tanks
	23 13 23.23 23 13 23.26	Insulated, Steel, Aboveground Fuel-Oil, Storage Tanks Concrete-Vaulted, Steel, Aboveground Fuel-Oil, Storage Tanks
	23 13 25.20	Facility Aboveground Liquefied-Petroleum Gas Storage Tanks
23	20 00	HVAC Piping and Pumps
	21 00	
23		Hydronic Piping and Pumps
	23 21 13 23 21 13.13	Hydronic Piping Underground Hydronic Piping
	23 21 13.23	Aboveground Hydronic Piping
	23 21 13.33	Ground-Loop Heat-Pump Piping
	23 21 16	Hydronic Piping Specialties
	23 21 23	Hydronic Pumps
	23 21 23.13	In-Line Centrifugal Hydronic Pumps
	23 21 23.16 23 21 23.19	Base-Mounted, Centrifugal Hydronic Pumps Vertical-Mounted, Double-Suction Centrifugal Hydronic Pumps
	23 21 23.13	Vertical-Modified, Bodisie-Guction Gentinggar Hydronic 1 diffps Vertical-Turbine Hydronic Pumps
	23 21 29	Automatic Condensate Pump Units
23	22 00	Steam and Condensate Piping and Pumps
	23 22 13	Steam and Condensate Heating Piping
	23 22 13.13	Underground Steam and Condensate Heating Piping
	23 22 13.23	Aboveground Steam and Condensate Heating Piping
	23 22 16	Steam and Condensate Heating Piping Specialties
	23 22 23	Steam Condensate Pumps
	23 22 23.13	Electric-Driven Steam Condensate Pumps
	23 22 23.23	Pressure-Powered Steam Condensate Pumps

23 23 00	Refrigerant Piping
23 23 13	Refrigerant Piping Valves
23 23 16	Refrigerant Piping Specialties
23 23 19	Refrigerant Safety Relief Valve Discharge Piping
23 23 23	Refrigerants
23 24 00	Internal-Combustion Engine Piping
23 24 13	Internal-Combustion Engine Remote-Radiator Coolant Piping
23 24 16	Internal-Combustion Engine Exhaust Piping
23 25 00	HVAC Water Treatment
23 25 13	Water Treatment for Closed-Loop Hydronic Systems
23 25 16	Water Treatment for Open Hydronic Systems
23 25 19	Water Treatment for Steam System Feedwater
23 25 23	Water Treatment for Humidification Steam System Feedwater
23 25 33	HVAC Makeup-Water Filtration Equipment
23 30 00	HVAC Air Distribution
23 31 00	HVAC Ducts and Casings
23 31 13	Metal Ducts
23 31 13.13	Rectangular Metal Ducts
23 31 13.16	Round and Flat-Oval Spiral Ducts
23 31 13.19	Metal Duct Fittings
23 31 16	Nonmetal Ducts
23 31 16.13	Fibrous-Glass Ducts
23 31 16.16	Thermoset Fiberglass-Reinforced Plastic Ducts
23 31 16.19	PVC Ducts
23 31 16.26 23 31 19	Concrete Ducts HVAC Casings
23 32 00	Air Plenums and Chases
23 32 13	Fabricated, Metal Air Plenums
23 32 33 23 32 36	Air-Distribution Ceiling Plenums Air-Distribution Floor Plenums
23 32 36 23 32 39	Air-Distribution Wall Plenums
23 32 39	Air-Distribution Wair Flemans Air-Distribution Chases Formed by General Construction
23 32 48	Acoustical Air Plenums
23 33 00	Air Duct Accessories
23 33 13	Dampers
23 33 13.13	Volume-Control Dampers
23 33 13.16	Fire Dampers
23 33 13.19	Smoke-Control Dampers
23 33 13.23	Backdraft Dampers
23 33 19	Duct Silencers
23 33 23	Turning Vanes
23 33 33	Duct-Mounting Access Doors
23 33 38	Duct Security Bars
23 33 43	Flexible Connectors
23 33 46	Flexible Ducts
23 33 53	Duct Liners
23 34 00	HVAC Fans
23 34 13	Axial HVAC Fans
23 34 16	Centrifugal HVAC Fans

	23 34 23	HVAC Power Ventilators
	23 34 33	Air Curtains
	23 34 39	High-Volume, Low-Speed Propeller Fans
23	35 00	Special Exhaust Systems
	23 35 13	Dust Collection Systems
	23 35 13.13	Sawdust Collection Systems
	23 35 16	Engine Exhaust Systems
	23 35 16.13	Positive-Pressure Engine Exhaust Systems
	23 35 16.16	Mechanical Engine Exhaust Systems
	23 35 33	Listed Kitchen Ventilation Exhaust System
23	36 00	Air Terminal Units
	23 36 13	Constant-Air-Volume Units
	23 36 16	Variable-Air-Volume Units
23	37 00	Air Outlets and Inlets
	23 37 13	Diffusers, Registers, and Grilles
	23 37 13.43	Security Registers and Grilles
	23 37 16	Fabric Air Distribution Devices
	23 37 23	HVAC Gravity Ventilators
	23 37 23.13	HVAC Gravity Dome Ventilators
	23 37 23.16	HVAC Gravity Louvered-Penthouse Ventilators
	23 37 23.19	HVAC Gravity Upblast Ventilators
23	38 00	Ventilation Hoods
	23 38 13	Commercial-Kitchen Hoods
	23 38 13.13	Listed Commercial-Kitchen Hoods
	23 38 13.16	Standard Commercial-Kitchen Hoods
	23 38 16	Fume Hoods
23	40 00	HVAC Air Cleaning Devices
	41 00	_
23		Particulate Air Filtration
	23 41 13	Panel Air Filters
	23 41 16	Renewable-Media Air Filters
	23 41 19	Washable Air Filters
	23 41 23	Extended Surface Filters
	23 41 33	High-Efficiency Particulate Filtration
	23 41 43	Ultra-Low Penetration Filtration
00	23 41 46	Super Ultra-Low Penetration Filtration
23	42 00	Gas-Phase Air Filtration
	23 42 13	Activated-Carbon Air Filtration
	23 42 16	Chemically-Impregnated Adsorption Air Filtration
	23 42 19	Catalytic-Adsorption Air Filtration
23	43 00	Electronic Air Cleaners
	23 43 13	Washable Electronic Air Cleaners
	23 43 16	Agglomerator Electronic Air Cleaners
	23 43 23	Self-Contained Electronic Air Cleaners
23	50 00	Central Heating Equipment
2 3	51 00	Breechings, Chimneys, and Stacks
	23 51 13	Draft Control Devices
	23 51 13.11 23 51 13 13	Draft Control Fans Draft-Induction Fans

	23 51 13.16 23 51 13.19 23 51 16 23 51 19 23 51 23 23 51 33 23 51 43 23 51 43.13 23 51 43.16	Vent Dampers Barometric Dampers Fabricated Breechings and Accessories Fabricated Stacks Gas Vents Insulated Sectional Chimneys Flue-Gas Filtration Equipment Gaseous Filtration Particulate Filtration
23	52 00	Heating Boilers
	23 52 13	Electric Boilers
	23 52 16 23 52 16.13	Condensing Boilers Stainless-Steel Condensing Boilers
	23 52 16.13	Aluminum Condensing Boilers
	23 52 17	Low Mass Boilers
	23 52 19	Pulse Combustion Boilers
	23 52 23	Cast-Iron Boilers
	23 52 33	Water-Tube Boilers
	23 52 33.13 23 52 33.14	Finned Water-Tube Boilers Flexible Water-Tube Boilers
	23 52 33.14	Steel Water-Tube Boilers
	23 52 33.19	Copper Water-Tube Boilers
	23 52 39	Fire-Tube Boilers
	23 52 39.13	Scotch Marine Boilers
	23 52 39.16 23 52 83	Steel Fire-Tube Boilers Boiler Blowdown Systems
	20 02 00	Dollor Diowadwii Ovstoriis
23	53 00	
23	53 00 23 53 13	Heating Boiler Feedwater Equipment
23	23 53 13	
	23 53 13 23 53 16	Heating Boiler Feedwater Equipment Boiler Feedwater Pumps Deaerators
	23 53 13 23 53 16 54 00	Heating Boiler Feedwater Equipment Boiler Feedwater Pumps Deaerators Furnaces
	23 53 13 23 53 16	Heating Boiler Feedwater Equipment Boiler Feedwater Pumps Deaerators
	23 53 13 23 53 16 54 00 23 54 13 23 54 16 23 54 16.13	Heating Boiler Feedwater Equipment Boiler Feedwater Pumps Deaerators Furnaces Electric-Resistance Furnaces Fuel-Fired Furnaces Gas-Fired Furnaces
23	23 53 13 23 53 16 54 00 23 54 13 23 54 16 23 54 16.13 23 54 16.16	Heating Boiler Feedwater Equipment Boiler Feedwater Pumps Deaerators Furnaces Electric-Resistance Furnaces Fuel-Fired Furnaces Gas-Fired Furnaces Oil-Fired Furnaces
23	23 53 13 23 53 16 54 00 23 54 13 23 54 16 23 54 16.13 23 54 16.16 55 00	Heating Boiler Feedwater Equipment Boiler Feedwater Pumps Deaerators Furnaces Electric-Resistance Furnaces Fuel-Fired Furnaces Gas-Fired Furnaces Oil-Fired Furnaces Fuel-Fired Heaters
23	23 53 13 23 53 16 54 00 23 54 13 23 54 16 23 54 16.13 23 54 16.16 55 00 23 55 13	Heating Boiler Feedwater Equipment Boiler Feedwater Pumps Deaerators Furnaces Electric-Resistance Furnaces Fuel-Fired Furnaces Gas-Fired Furnaces Oil-Fired Furnaces Fuel-Fired Heaters Fuel-Fired Duct Heaters
23	23 53 13 23 53 16 54 00 23 54 13 23 54 16 23 54 16.13 23 54 16.16 55 00 23 55 13 23 55 13.13	Heating Boiler Feedwater Equipment Boiler Feedwater Pumps Deaerators Furnaces Electric-Resistance Furnaces Fuel-Fired Furnaces Gas-Fired Furnaces Oil-Fired Furnaces Fuel-Fired Heaters Fuel-Fired Duct Heaters Oil-Fired Duct Heaters
23	23 53 13 23 53 16 54 00 23 54 13 23 54 16 23 54 16.13 23 54 16.16 55 00 23 55 13 23 55 13.13 23 55 13.13	Heating Boiler Feedwater Equipment Boiler Feedwater Pumps Deaerators Furnaces Electric-Resistance Furnaces Fuel-Fired Furnaces Gas-Fired Furnaces Oil-Fired Furnaces Fuel-Fired Heaters Fuel-Fired Duct Heaters
23	23 53 13 23 53 16 54 00 23 54 13 23 54 16 23 54 16.13 23 54 16.16 55 00 23 55 13 23 55 13.13	Heating Boiler Feedwater Equipment Boiler Feedwater Pumps Deaerators Furnaces Electric-Resistance Furnaces Fuel-Fired Furnaces Gas-Fired Furnaces Oil-Fired Furnaces Fuel-Fired Heaters Fuel-Fired Duct Heaters Oil-Fired Duct Heaters Gas-Fired Duct Heaters Gas-Fired Radiant Heaters Low-Intensity Gas-Fired Radiant Heaters
23	23 53 13 23 53 16 54 00 23 54 13 23 54 16 23 54 16.13 23 54 16.16 55 00 23 55 13 23 55 13.13 23 55 13.16 23 55 23 23 55 23.13 23 55 23.13	Heating Boiler Feedwater Equipment Boiler Feedwater Pumps Deaerators Furnaces Electric-Resistance Furnaces Fuel-Fired Furnaces Gas-Fired Furnaces Oil-Fired Furnaces Fuel-Fired Heaters Fuel-Fired Duct Heaters Oil-Fired Duct Heaters Gas-Fired Duct Heaters Gas-Fired Radiant Heaters Low-Intensity Gas-Fired Radiant Heaters High-Intensity Gas-Fired Radiant Heaters
23	23 53 13 23 53 16 54 00 23 54 13 23 54 16 23 54 16.13 23 54 16.16 55 00 23 55 13 23 55 13.13 23 55 13.16 23 55 23 23 55 23.13 23 55 23.16 23 55 33	Heating Boiler Feedwater Equipment Boiler Feedwater Pumps Deaerators Furnaces Electric-Resistance Furnaces Fuel-Fired Furnaces Gas-Fired Furnaces Oil-Fired Furnaces Fuel-Fired Heaters Fuel-Fired Duct Heaters Oil-Fired Duct Heaters Gas-Fired Duct Heaters Gas-Fired Radiant Heaters Low-Intensity Gas-Fired Radiant Heaters Fuel-Fired Unit Heaters
23	23 53 13 23 53 16 54 00 23 54 13 23 54 16 23 54 16.13 23 54 16.16 55 00 23 55 13 23 55 13.13 23 55 13.16 23 55 23 23 55 23.13 23 55 23.16 23 55 33 23 55 33.13	Heating Boiler Feedwater Equipment Boiler Feedwater Pumps Deaerators Furnaces Electric-Resistance Furnaces Fuel-Fired Furnaces Gas-Fired Furnaces Oil-Fired Furnaces Vil-Fired Heaters Fuel-Fired Duct Heaters Oil-Fired Duct Heaters Gas-Fired Duct Heaters Gas-Fired Radiant Heaters Low-Intensity Gas-Fired Radiant Heaters Fuel-Fired Unit Heaters Oil-Fired Unit Heaters Oil-Fired Unit Heaters
23	23 53 13 23 53 16 54 00 23 54 13 23 54 16.13 23 54 16.16 55 00 23 55 13.13 23 55 13.16 23 55 23 23 55 23.13 23 55 23.13 23 55 33.13 23 55 33.13 23 55 33.16	Heating Boiler Feedwater Equipment Boiler Feedwater Pumps Deaerators Furnaces Electric-Resistance Furnaces Fuel-Fired Furnaces Gas-Fired Furnaces Oil-Fired Furnaces Fuel-Fired Heaters Fuel-Fired Duct Heaters Oil-Fired Duct Heaters Gas-Fired Duct Heaters Gas-Fired Radiant Heaters Low-Intensity Gas-Fired Radiant Heaters Fuel-Fired Unit Heaters Oil-Fired Unit Heaters Oil-Fired Unit Heaters Gas-Fired Unit Heaters
23	23 53 13 23 53 16 54 00 23 54 13 23 54 16 23 54 16.13 23 54 16.16 55 00 23 55 13 23 55 13.13 23 55 13.16 23 55 23 23 55 23.13 23 55 23.16 23 55 33 23 55 33.13	Heating Boiler Feedwater Equipment Boiler Feedwater Pumps Deaerators Furnaces Electric-Resistance Furnaces Fuel-Fired Furnaces Gas-Fired Furnaces Oil-Fired Furnaces Vil-Fired Furnaces Fuel-Fired Heaters Fuel-Fired Duct Heaters Oil-Fired Duct Heaters Gas-Fired Duct Heaters Gas-Fired Radiant Heaters Low-Intensity Gas-Fired Radiant Heaters Fuel-Fired Unit Heaters Oil-Fired Unit Heaters Oil-Fired Unit Heaters Solar Energy Heating Equipment
23	23 53 13 23 53 16 54 00 23 54 13 23 54 16 23 54 16.13 23 54 16.16 55 00 23 55 13 23 55 13.13 23 55 13.13 23 55 23 23 55 23.13 23 55 23.16 23 55 33 23 55 33.13 23 55 33.13 23 55 33.16	Heating Boiler Feedwater Equipment Boiler Feedwater Pumps Deaerators Furnaces Electric-Resistance Furnaces Fuel-Fired Furnaces Gas-Fired Furnaces Oil-Fired Furnaces Fuel-Fired Heaters Fuel-Fired Duct Heaters Oil-Fired Duct Heaters Gas-Fired Duct Heaters Gas-Fired Radiant Heaters Low-Intensity Gas-Fired Radiant Heaters Fuel-Fired Unit Heaters Oil-Fired Unit Heaters Oil-Fired Unit Heaters Gas-Fired Unit Heaters
23	23 53 13 23 53 16 54 00 23 54 13 23 54 16.13 23 54 16.16 55 00 23 55 13 23 55 13.13 23 55 13.16 23 55 23 23 55 23.16 23 55 33 23 55 33.13 23 55 33.13 23 55 33.13 23 55 33.13 23 56 13.13 23 56 13.13 23 56 13.13	Heating Boiler Feedwater Equipment Boiler Feedwater Pumps Deaerators Furnaces Electric-Resistance Furnaces Fuel-Fired Furnaces Gas-Fired Furnaces Oil-Fired Furnaces Vil-Fired Furnaces Fuel-Fired Heaters Fuel-Fired Duct Heaters Oil-Fired Duct Heaters Gas-Fired Duct Heaters Gas-Fired Radiant Heaters Low-Intensity Gas-Fired Radiant Heaters High-Intensity Gas-Fired Radiant Heaters Fuel-Fired Unit Heaters Oil-Fired Unit Heaters Oil-Fired Unit Heaters Sas-Fired Unit Heaters Heating Solar Collectors Heating Solar Concentrating Collectors
23	23 53 13 23 53 16 54 00 23 54 13 23 54 16.13 23 54 16.16 55 00 23 55 13.13 23 55 13.16 23 55 23 23 55 23.16 23 55 23.13 23 55 33.13 23 55 33.13 23 55 33.13 23 56 13.13 23 56 13.13 23 56 13.13 23 56 13.19	Heating Boiler Feedwater Equipment Boiler Feedwater Pumps Deaerators Furnaces Electric-Resistance Furnaces Fuel-Fired Furnaces Gas-Fired Furnaces Oil-Fired Furnaces Fuel-Fired Heaters Fuel-Fired Duct Heaters Oil-Fired Duct Heaters Gas-Fired Duct Heaters Gas-Fired Radiant Heaters Low-Intensity Gas-Fired Radiant Heaters High-Intensity Gas-Fired Radiant Heaters Fuel-Fired Unit Heaters Oil-Fired Unit Heaters Oil-Fired Unit Heaters Gas-Fired Unit Heaters Heating Solar Collectors Heating Solar Concentrating Collectors Heating Solar Vacuum-Tube Collectors
23	23 53 13 23 53 16 54 00 23 54 13 23 54 16.13 23 54 16.16 55 00 23 55 13 23 55 13.13 23 55 13.16 23 55 23 23 55 23.16 23 55 33 23 55 33.13 23 55 33.13 23 55 33.13 23 55 33.13 23 56 13.13 23 56 13.13 23 56 13.13	Heating Boiler Feedwater Equipment Boiler Feedwater Pumps Deaerators Furnaces Electric-Resistance Furnaces Fuel-Fired Furnaces Gas-Fired Furnaces Oil-Fired Furnaces Vil-Fired Furnaces Fuel-Fired Heaters Fuel-Fired Duct Heaters Oil-Fired Duct Heaters Gas-Fired Duct Heaters Gas-Fired Radiant Heaters Low-Intensity Gas-Fired Radiant Heaters High-Intensity Gas-Fired Radiant Heaters Fuel-Fired Unit Heaters Oil-Fired Unit Heaters Oil-Fired Unit Heaters Sas-Fired Unit Heaters Heating Solar Collectors Heating Solar Concentrating Collectors

23	57 00	Heat Exchangers for HVAC
	23 57 13	Steam-to-Steam Heat Exchangers
	23 57 16	Steam-to-Water Heat Exchangers
	23 57 19	Liquid-to-Liquid Heat Exchangers
	23 57 19.13	Plate-Type, Liquid-to-Liquid Heat Exchangers
	23 57 19.16	Shell-Type, Liquid-to-Liquid Heat Exchangers
	23 57 33	Direct Geoexchange Heat Exchangers
23	3 60 00	Central Cooling Equipment
23	61 00	Refrigerant Compressors
	23 61 13	Centrifugal Refrigerant Compressors
	23 61 13.13	Non-Condensable Gas Purge Equipment
	23 61 16	Reciprocating Refrigerant Compressors
	23 61 19	Scroll Refrigerant Compressors
	23 61 23	Rotary-Screw Refrigerant Compressors
23	62 00	Packaged Compressor and Condenser Units
	23 62 13	Packaged Air-Cooled Refrigerant Compressor and Condenser Units
	23 62 23	Packaged Water-Cooled Refrigerant Compressor and Condenser Units
	23 62 46	Packaged Variable-Refrigerant-Flow Air-Conditioning Systems
23	63 00	Refrigerant Condensers
	23 63 13	Air-Cooled Refrigerant Condensers
	23 63 23	Water-Cooled Refrigerant Condensers
	23 63 33	Evaporative Refrigerant Condensers
23	64 00	Packaged Water Chillers
	23 64 13	Absorption Water Chillers
	23 64 13.13	Direct-Fired Absorption Water Chillers
	23 64 13.16	Indirect-Fired Absorption Water Chillers
	23 64 16	Centrifugal Water Chillers
	23 64 16.13	Air-Cooled Centrifugal Water Chillers
	23 64 16.16	Water-Cooled Centrifugal Water Chillers
	23 64 19	Reciprocating Water Chillers
	23 64 23	Scroll Water Chillers
	23 64 23.13 23 64 23.16	Air-Cooled Scroll Water Chillers Water-Cooled Scroll Water Chillers
	23 64 26	Rotary-Screw Water Chillers
	23 64 26.13	Air-Cooled, Rotary-Screw Water Chillers
	23 64 26.16	Water-Cooled, Rotary-Screw Water Chillers
	23 64 33	Modular Water Chillers
	23 64 33.13	Air-Cooled, Modular Water Chillers
	23 64 33.16	Water-Cooled, Modular Water Chillers
23	65 00	Cooling Towers
	23 65 13	Forced-Draft Cooling Towers
	23 65 13.13	Open-Circuit, Forced-Draft Cooling Towers
	23 65 13.16	Closed-Circuit, Forced-Draft Cooling Towers
	23 65 14	Induced-Draft Cooling Towers
	23 65 14.13	Open-Circuit, Induced-Draft Counterflow Cooling Towers
	23 65 14.14 23 65 14.16	Open-Circuit, Induced-Draft Crossflow Cooling Towers Closed-Circuit, Induced-Draft Counterflow Cooling Towers
	23 65 14.17	Closed-Circuit, Induced-Draft Counternow Cooling Towers Closed-Circuit, Induced-Draft Combined-Flow Cooling Towers
	23 65 16	Natural-Draft Cooling Towers
	23 65 23	Field-Erected Cooling Towers

23 65 33	Liquid Coolers
23 70 00	Central HVAC Equipment
23 71 00	Thermal Storage
23 71 13	Thermal Heat Storage
23 71 13.13	Room Storage Heaters for Thermal Storage
23 71 13.16	Heat-Pump Boosters for Thermal Storage
23 71 13.19	Central Furnace Heat-Storage Units
23 71 13.23	Pressurized-Water Thermal Storage Tanks
23 71 16	Chilled-Water Thermal Storage
23 71 19	Ice Storage
23 71 19.13 23 71 19.16	Internal Ice-on-Coil Thermal Storage External Ice-on-Coil Thermal Storage
23 71 19.10	Encapsulated-Ice Thermal Storage
23 71 19.23	Ice-Harvesting Thermal Storage
23 71 19.26	Ice-Slurry Thermal Storage
23 72 00	Air-to-Air Energy Recovery Equipment
23 72 13	Heat-Wheel Air-to-Air Energy-Recovery Equipment
23 72 16	Heat-Pipe Air-to-Air Energy-Recovery Equipment
23 72 19	Fixed-Plate Air-to-Air Energy-Recovery Equipment
23 72 23	Packaged Air-to-Air Energy-Recovery Units
23 73 00	Indoor Central-Station Air-Handling Units
23 73 13	Modular Indoor Central-Station Air-Handling Units
23 73 23	Custom Indoor Central-Station Air-Handling Units
23 73 33	Indoor Indirect Fuel-Fired Heating and Ventilating Units
23 73 33.13	Indoor Indirect Oil-Fired Heating and Ventilating Units
23 73 33.16	Indoor Indirect Gas-Fired Heating and Ventilating Units
23 73 39	Indoor, Direct Gas-Fired Heating and Ventilating Units
23 74 00	Packaged Outdoor HVAC Equipment
23 74 13	Packaged, Outdoor, Central-Station Air-Handling Units
23 74 16	Packaged Rooftop Air-Conditioning Units
23 74 16.11 23 74 16.12	Packaged, Small-Capacity, Rooftop Air-Conditioning Units Packaged, Intermediate-Capacity, Rooftop Air-Conditioning Units
23 74 16.12	Packaged, Intermediate-Capacity, Rooftop Air-Conditioning Units Packaged, Large-Capacity, Rooftop Air-Conditioning Units
23 74 23	Packaged, Outdoor, Heating-Only Makeup-Air Units
23 74 23.13	Packaged, Direct-Fired, Outdoor, Heating-Only Makeup-Air Units
23 74 23.16	Packaged, Indirect-Fired, Outdoor, Heating-Only Makeup-Air Units
23 74 33	Dedicated Outdoor-Air Units
23 75 00	Custom-Packaged Outdoor HVAC Equipment
23 75 13	Custom-Packaged, Outdoor, Central-Station Air-Handling Units
23 75 16	Custom-Packaged, Rooftop Air-Conditioning Units
23 75 23	Custom-Packaged, Outdoor, Heating and Ventilating Makeup-Air Units
23 75 33	Custom-Packaged, Outdoor, Heating and Cooling Makeup Air-
	Conditioners
23 76 00	Evaporative Air-Cooling Equipment
23 76 13	Direct Evaporative Air Coolers
23 76 16	Indirect Evaporative Air Coolers
23 76 19	Combined Direct and Indirect Evaporative Air Coolers
23 80 00	Decentralized HVAC Equipment
23 81 00	Decentralized Unitary HVAC Equipment

	23 81 13	Packaged Terminal Air-Conditioners
	23 81 13.11	Packaged Terminal Air-Conditioners, Through-Wall Units
	23 81 13.12	Packaged Terminal Air-Conditioners, Freestanding Units
	23 81 13.13	Packaged Terminal Air-Conditioners, Outdoor, Wall-Mounted Units
	23 81 16	Room Air-Conditioners
	23 81 19	Self-Contained Air-Conditioners
	23 81 19.13	Small-Capacity Self-Contained Air-Conditioners
	23 81 19.16	Large-Capacity Self-Contained Air-Conditioners
	23 81 23	Computer-Room Air-Conditioners
	23 81 23.11	Small-Capacity, Computer-Room Air-Conditioners, Floor Mounted Units
	23 81 23.12	Large-Capacity, Computer-Room Air-Conditioners, Floor-Mounted Units
	23 81 23.13	Computer-Room Air-Conditioners, Ceiling Mounted Units
	23 81 23.14	Computer-Room Air-Conditioners, Console Units
	23 81 23.16 23 81 23.18	Computer-Room Air-Conditioners, Rack Mounted, Space-Cooling Units Computer-Room, Rack-Cooling Equipment
	23 81 26	Split-System Air-Conditioners
	23 81 26.13	Small-Capacity Split-System Air-Conditioners
	23 81 26.16	Large-Capacity Split-System Air-Conditioners
	23 81 29	Variable Refrigerant Flow HVAC Systems
	23 81 43	Air-Source Unitary Heat Pumps
	23 81 46	Water-Source Unitary Heat Pumps
	23 81 49	Ground-Source Unitary Heat Pumps
22	82 00	Convection Heating and Cooling Units
23		
	23 82 13	Valance Heating and Cooling Units
	23 82 14	Chilled Beams
	23 82 16 23 82 16.11	Air Coils
	23 82 16.11	Hydronic Air Coils Steam Air Coils
	23 82 16.12	Refrigerant Air Coils
	23 82 16.14	Electric-Resistance Air Coils
	23 82 19	Fan Coil Units
	23 82 23	Unit Ventilators
	23 82 26	Induction Units
	23 82 29	Radiators
	23 82 33	Convectors
	23 82 36	Finned-Tube Radiation Heaters
	23 82 39	Unit Heaters
	23 82 39.13	Cabinet Unit Heaters
	23 82 39.16	Propeller Unit Heaters
	23 82 39.19	Wall and Ceiling Unit Heaters
	23 82 41	Water-to-Water Heat Pumps
23	83 00	Radiant Heating Units
	23 83 13	Radiant-Heating Electric Cables
	23 83 13.16	Radiant-Heating Electric Mats
	23 83 16	Radiant-Heating Hydronic Piping
	23 83 23	Radiant-Heating Electric Panels
	23 83 33	Electric Radiant Heaters
23	84 00	Humidity Control Equipment
	23 84 13	Humidifiers
	23 84 13.13	Heated-Pan Humidifiers
	23 84 13.16	Wetted-Element Humidifiers
	23 84 13.19	Atomizing Humidifiers

23 84 23 84		Direct-Steam-Injection Humidifiers Jacketed, Steam Humidifiers
23 84		Self-Contained Steam Humidifiers
23 84		Portable Humidifiers
23 84		Mechanical Dehumidification Units
23 84		Outdoor, Mechanical Dehumidification Units
23 84		ndoor, Mechanical Dehumidification Units Portable Dehumidifiers
23 84		Desiccant Dehumidification Units
25 00	_	Integrated Automation
25 01 00		Operation and Maintenance of Integrated Automation
25 01		Operation and Maintenance of Integrated Automation Network Equipment
25 01		Operation and Maintenance of Integrated Equipment
25 01		Deration and Maintenance of Integrated Automation Instrumentation and
	Т	Terminal Devices
25 01	90 E	Diagnostic Systems for Integrated Automation
25 05 00		Common Work Results for Integrated Automation
25 05		Selective Demolition for Integrated Automation
25 05		Conductors and Cables for Integrated Automation
25 05		Grounding and Bonding for Integrated Automation
25 05 25 05		Pathways for Integrated Automation
25 05		Hangers and Supports for Integrated Automation Conduits and Backboxes for Integrated Automation
25 05		Cable Trays for Integrated Automation
25 05		Surface Raceways for Integrated Automation
25 05		/ibration and Seismic Controls for Integrated Automation
25 05		dentification for Integrated Automation
25 06 00		Schedules for Integrated Automation
25 06		Schedules for Integrated Automation Network
25 06		Schedules for Integrated Automation Network Gateways
25 06 25 06		Schedules for Integrated Automation Control and Monitoring Network Schedules for Integrated Automation Local Control Units
25 06		Schedules for Integrated Automation Instrumentation and Terminal
20 00		Devices
25 08 00		Commissioning of Integrated Automation
25 10 (00 I	ntegrated Automation Network
		Equipment
25 11 00	I	ntegrated Automation Network Devices
25 11		ntegrated Automation Network Servers
25 11		ntegrated Automation Network Routers, Bridges, Switches, Hubs, and Modems
25 11		ntegrated Automation Network Operator Workstations
25 12 00		ntegrated Automation Network Gateways
25 12		Hardwired Integration Network Gateways
25 12		Direct-Protocol Integration Network Gateways
25 12	2 19 N	Neutral-Protocol Integration Network Gateways
25 12		Client-Server Information/Database Integration Network Gateways
25 13 00) I	Integrated Automation Control and Monitoring

	Network
25 13 13	Integrated Automation Control and Monitoring Network Supervisory Control
25 13 16	Integrated Automation Control and Monitoring Network Integration Panels
25 13 19	Integrated Automation Control and Monitoring Network Interoperability
25 14 00	Integrated Automation Local Control Units
25 14 13	Integrated Automation Remote Control Panels
25 14 16	Integrated Automation Application-Specific Control Panels
25 14 19 25 14 23	Integrated Automation Terminal Control Units Integrated Automation Field Equipment Panels
25 15 00	Integrated Automation Software
25 15 13	Integrated Automation Software for Network Gateways
25 15 16	Integrated Automation Software for Control and Monitoring Networks
25 15 19	Integrated Automation Software for Local Control Units
25 30 00	Integrated Automation Instrumentation
	and Terminal Devices
25 31 00	Integrated Automation Instrumentation and Terminal
	Devices for Facility Equipment
25 32 00	Integrated Automation Instrumentation and Terminal
	Devices for Conveying Equipment
25 33 00	Integrated Automation Instrumentation and Terminal
	Devices for Fire-Suppression Systems
25 34 00	Integrated Automation Instrumentation and Terminal
	Devices for Plumbing
25 35 00	Integrated Automation Instrumentation and Terminal
	Devices for HVAC
25 35 13	Integrated Automation Actuators and Operators
25 35 16	Integrated Automation Sensors and Transmitters
25 35 19	Integrated Automation Control Valves
25 35 23	Integrated Automation Control Dampers
25 35 26	Integrated Automation Compressed Air Supply
25 36 00	Integrated Automation Instrumentation and Terminal
25 26 42	Devices for Electrical Systems
25 36 13 25 36 16	Integrated Automation Power Meters
25 36 16 25 36 19	Integrated Automation KW Transducers Integrated Automation Current Sensors
25 36 23	Integrated Automation Current Sensors Integrated Automation Battery Monitors
25 36 26	Integrated Automation Lighting Relays
25 36 29	Integrated Automation UPS Monitors
25 37 00	Integrated Automation Instrumentation and Terminal
	Devices for Communications Systems
25 38 00	Integrated Automation Instrumentation and Terminal
	Devices for Electronic Safety and Security Systems
25 50 00	Integrated Automation Facility Controls

Integrated Automation Control of Conveying Equipment	25 51 00	Integrated Automation Control of Facility Equipment
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Integrated Automation Control of HVAC		•
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Systems Integrated Automation Control of Electronic Safety and Security Systems 25 90 00 Integrated Automation Control Sequences for Facility Equipment Integrated Automation Control Sequences for Conveying Equipment Integrated Automation Control Sequences for Conveying Equipment Integrated Automation Control Sequences for Fire-Suppression Systems Integrated Automation Control Sequences for Plumbing Integrated Automation Control Sequences for Plumbing Integrated Automation Control Sequences for Electrical Systems Integrated Automation Control Sequences for Electrical Systems Integrated Automation Control Sequences for Communications Systems Integrated Automation Control Sequences for Electronic Safety and Security Systems Integrated Automation Control Sequences for Electronic Safety and Security Systems Integrated Automation Control Sequences for Electronic Safety and Security Systems Integrated Automation Control Sequences for Electrical Operation and Maintenance of Electrical Distribution Operation and Maintenance of Electrical Distribution Operation and Maintenance of Low-Voltage Electrical Distribution Storing Equipment Operation and Maintenance of Electrical Protection Systems Operation and Maintenance of Electrical Protection Systems Operation and Maintenance of Lighting Protection Systems Operation and Maintenance of Lighti	25 56 00	Integrated Automation Control of Electrical Systems
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Integrated Automation Control Sequences for Facility Equipment	25 90 00	
Equipment 25 92 00		
Integrated Automation Control Sequences for Conveying Equipment		•
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Plumbing 25 95 00		Suppression Systems
Integrated Automation Control Sequences for HVAC	25 94 00	·
25 96 00 Integrated Automation Control Sequences for Electrical Systems 25 97 00 Integrated Automation Control Sequences for Communications Systems 25 98 00 Integrated Automation Control Sequences for Electronic Safety and Security Systems 26 00 00 Electrical 26 01 00 Operation and Maintenance of Electrical Systems 26 01 10 Operation and Maintenance of Medium-Voltage Electrical Distribution Operation and Maintenance of Low-Voltage Electrical Distribution Maintenance Testing of Electrical Systems 26 01 26 Operation and Maintenance of Facility Electrical Power Generating and Storing Equipment Operation and Maintenance of Electrical Protection Systems 26 01 40 Operation and Maintenance of Lightning Protection Systems		<u> </u>
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26 01 40.13 Operation and Maintenance of Lightning Protection Systems 26 01 50 Operation and Maintenance of Lighting 26 01 50.51 Luminaire Relamping 26 01 50.81 Common Work Results for Electrical	26 01 40	
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26 01 50.81 Luminaire Replacement 26 05 00 Common Work Results for Electrical	26 01 50	Operation and Maintenance of Lighting
26 05 00 Common Work Results for Electrical		

	26 05 13	Medium-Voltage Cables
	26 05 13.13	Medium-Voltage Open Conductors
	26 05 13.16	Medium-Voltage, Single- and Multi-Conductor Cables
	26 05 19	Low-Voltage Electrical Power Conductors and Cables
	26 05 19.13	Undercarpet Electrical Power Cables
	26 05 19.23	Manufactured Wiring Assemblies
	26 05 23	Control-Voltage Electrical Power Cables
	26 05 26	Grounding and Bonding for Electrical Systems
	26 05 29	Hangers and Supports for Electrical Systems
	26 05 33	Raceway and Boxes for Electrical Systems
	26 05 33.13	Conduit for Electrical Systems
	26 05 33.16	Boxes for Electrical Systems
	26 05 33.23	Surface raceways for Electrical Systems
	26 05 36	Cable Trays for Electrical Systems
	26 05 39	Underfloor Raceways for Electrical Systems
	26 05 43	Underground Ducts and Raceways for Electrical Systems
	26 05 44	Sleeves and Sleeve Seals for Electrical Raceways and Cabling
	26 05 46	Poles for Electrical Systems
	26 05 48	Vibration and Seismic Controls for Electrical Systems
	26 05 48.16	Seismic Controls for Electrical Systems
	26 05 53	Identification for Electrical Systems
	26 05 73	Power System Studies
	26 05 73.13	Short-Circuit Studies
	26 05 73.16	Coordination Studies
	26 05 73.19	Arc-Flash Hazard Analysis
	26 05 73.23	Load Flow Studies
	26 05 73.26	Stability Studies
	26 05 73.29	Harmonic-Analysis Studies
	26 05 76	Photometric Studies
	26 05 83	Wiring Connections
26	06 00	Schedules for Electrical
	26 06 10	Schedules for Medium-Voltage Electrical Distribution
	26 06 20	
	26 06 20.13	Schedules for Low-Voltage Electrical Distribution Electrical Switchboard Schedule
	26 06 20.16	Electrical Switchboard Schedule
	26 06 20.19	Electrical Motor-Control Center Schedule
	26 06 20.23	Electrical Circuit Schedule
	26 06 20.26	Wiring Device Schedule
	26 06 30	Schedules for Facility Electrical Power Generating and Storing Equipment
	26 06 40	Schedules for Electrical Protection Systems
	26 06 50	Schedules for Lighting
	26 06 50.13	Lighting Panelboard Schedule
	26 06 50.16	Lighting Fixture Schedule
26	08 00	Commissioning of Electrical Systems
	09 00	Instrumentation and Control for Electrical Systems
20	26 09 13	Electrical Power Monitoring
		g
	26 09 15	Peak Load Controllers
	26 09 16	Electrical Controls and Relays
	26 09 17	Programmable Controllers
	26 09 19	Enclosed Contactors
	26 09 23	Lighting Control Devices
	26 09 26	Lighting Control Panelboards

	26 09 33 26 09 33.13	Central Dimming Controls Multichannel Remote-Controlled Dimmers
	26 09 33.16	Remote-Controlled Dimming Stations
	26 09 36 26 09 36.13	Modular Dimming Controls Manual Modular Dimming Controls
	26 09 36.16	Integrated Multipreset Modular Dimming Controls
	26 09 36.19	Standalone Multipreset Modular Dimming
	26 09 43	Network Lighting Controls
	26 09 43.13	Digital-Network Lighting Controls
	26 09 43.16	Addressable Luminaire Lighting Controls
	26 09 43.19 26 09 43.23	Wireless Network Lighting Controls Relay-Based Lighting Controls
	26 09 61	Theatrical Lighting Controls
26	10 00	
		Medium-Voltage Electrical Distribution
26	11 00	Substations
	26 11 13	Primary Unit Substations
	26 11 16 26 11 16.11	Secondary Unit Substations Secondary Unit Substations with Switchgear Secondary
	26 11 16.11	Secondary Unit Substations with Switchboard Secondary
	26 11 16.13	Secondary Unit Substations with Motor Control Center Secondary
26	12 00	Medium-Voltage Transformers
	26 12 13	Liquid-Filled, Medium-Voltage Transformers
	26 12 16	Dry-Type, Medium-Voltage Transformers
	26 12 19	Pad-Mounted, Liquid-Filled, Medium-Voltage Transformers
26	13 00	Medium-Voltage Switchgear
	26 13 13	Medium-Voltage Circuit Breaker Switchgear
	26 13 16	Medium-Voltage Fusible Interrupter Switchgear
	26 13 19	Medium-Voltage Vacuum Interrupter Switchgear
	26 13 23	Medium-Voltage Metal-Enclosed Switchgear
	26 13 26 26 13 29	Medium-Voltage Metal-Clad Switchgear Medium-Voltage Compartmentalized Switchgear
26	15 00	Medium-Voltage Enclosed Bus Assemblies
20	26 15 13	Medium-Voltage Enclosed Bds Assemblies Medium-Voltage Busways
	26 15 16	Medium-Voltage Dusways Medium-Voltage Cablebus
26	16 00	Medium-Voltage Metering
	18 00	Medium-Voltage Circuit Protection Devices
20	26 18 13	Medium-Voltage Cutouts
	26 18 16	Medium-Voltage Fuses
	26 18 19	Medium-Voltage Lightning Arresters
	26 18 23	Medium-Voltage Surge Arresters
	26 18 26	Medium-Voltage Reclosers
	26 18 29	Medium-Voltage Enclosed Bus
	26 18 33	Medium-Voltage Enclosed Fuse Cutouts
	26 18 36	Medium-Voltage Enclosed Fuses
	26 18 39	Medium-Voltage Motor Controllers
26	20 00	Low-Voltage Electrical Distribution
26	21 00	Low-Voltage Electrical Service Entrance
	26 21 13	Low-Voltage Overhead Electrical Service Entrance
	26 21 16	Low-Voltage Underground Electrical Service Entrance

26 22 00	Low-Voltage Transformers
26 22 13	Low-Voltage Distribution Transformers
26 22 16	Low-Voltage Buck-Boost Transformers
26 22 17	Low-Voltage Transformers for Nonlinear Loads
26 22 18	Low-Voltage Transformers for Load Centers
26 22 19	Control and Signal Transformers
26 23 00	Low-Voltage Switchgear
26 23 13	Paralleling Low-Voltage Switchgear
26 24 00	Switchboards and Panelboards
26 24 13	Switchboards
26 24 16	
26 24 16.16	· ·
26 24 19	Motor-Control Centers
26 25 00	Low-Voltage Enclosed Bus Assemblies
26 25 13	Low-Voltage Busways
26 25 16	Low-Voltage Cablebus Systems
26 27 00	Low-Voltage Distribution Equipment
26 27 13	Electricity Metering
26 27 16	Electrical Cabinets and Enclosures
26 27 19	
26 27 23	
26 27 26	
26 27 33	
26 27 73	Door Chimes
26 28 00	Low-Voltage Circuit Protective Devices
26 28 13	Fusies
26 28 16 26 28 16.13	Enclosed Switches and Circuit Breakers Enclosed Circuit Breakers
26 28 16.16	Enclosed Switches
26 29 00	Low-Voltage Controllers
26 29 13	Enclosed Controllers
26 29 13.13	
26 29 13.16	Reduced-Voltage Motor Controllers
26 29 23	Variable-Frequency Motor Controllers
26 29 33	Controllers for Fire Pump Drivers
26 29 33.13	Full-Service Controllers for Fire Pump Electric-Motor Drivers
26 29 33.16 26 29 33.19	Limited-Service Controllers for Fire Pump Electric-Motor Drivers Controllers for Fire Pump Diesel Engine Drivers
26 30 00	Facility Electrical Power Generating and
	Storing Equipment
26 31 00	Photovoltaic Collectors
26 32 00	
	Packaged Generator Assemblies
26 32 13 26 32 13.13	Engine Generators Diesel-Engine-Driven Generator Sets
26 32 13.16	Gas-Engine-Driven Generator Sets
26 32 13.26	Gas-Turbine Engine-Driven Generators
26 32 16	Steam-Turbine Generators
26 32 19	Hydro-Turbine Generators

26 32 23	Wind Energy Equipment
26 32 23.13	Horizontal-Axis Wind Turbines
26 32 23.16 26 32 26	Vertical-Axis Wind Turbines
26 32 29	Frequency Changers Rotary Converters
26 32 33	Rotary Uninterruptible Power Units
26 32 36	Resistive Load Banks
26 33 00	Battery Equipment
26 33 13	Batteries
26 33 16	Battery Racks
26 33 19	Battery Units
26 33 23	Central Battery Equipment
26 33 23.13	Central Battery Equipment for Emergency Lighting
26 33 33	Static Power Converters
26 33 43	Battery Chargers
26 33 46	Battery Monitoring
26 33 53	Static Uninterruptible Power Supply
26 35 00	Power Filters and Conditioners
26 35 13	Capacitors
26 35 16	Chokes and Inductors
26 35 23	Electromagnetic-Interference Filters
26 35 26	Harmonic Filters
26 35 33	Power Factor Correction Equipment
26 35 33.13 26 35 33.16	Medium-Voltage Power Factor Correction Equipment Low-Voltage Power Factor Correction Equipment
26 35 36	Slip Controllers
26 35 43	Static-Frequency Converters
26 35 46	Radio-Frequency-Interference Filters
26 35 53	Voltage Regulators
26 36 00	Transfer Switches
26 36 13	Manual Transfer Switches
26 36 23	Automatic Transfer Switches
26 40 00	Electrical Protection
26 41 00	Facility Lightning Protection
26 41 13	Lightning Protection for Structures
26 41 13.13	Lightning Protection for Buildings
26 41 16	Lightning Prevention and Dissipation
26 41 19	Early Streamer Emission Lightning Protection
26 41 23	Lightning Protection Surge Arresters and Suppressors
26 43 00	Surge Protective Devices
26 43 13	Surge Protective Devices for Low-Voltage Electrical Power Circuits
26 50 00	Lighting
26 51 00	Interior Lighting
26 51 13	Incandescent Interior Lighting
26 51 16	Fluorescent Interior Lighting
26 51 19	LED Interior Lighting
26 51 23	HID Interior Lighting
26 52 00	Safety Lighting

	26 52 13	Emergency and Exit Lighting
	26 52 13.13	Emergency Lighting
	26 52 13.16	Exit Signs
26	54 00	Classified Location Lighting
	26 54 13	Incandescent Classified Location Lighting
	26 54 16	Fluorescent Classified Location Lighting
	26 54 19	LED Classified Location Lighting
26	55 00	Special Purpose Lighting
	26 55 23	Outline Lighting
	26 55 29	Underwater Lighting
	26 55 33	Hazard Warning Lighting
	26 55 36	Obstruction Lighting
	26 55 39	Helipad Lighting
	26 55 53	Security Lighting
	26 55 59	Display Lighting
	26 55 61	Theatrical Lighting
	26 55 63	Detention Lighting
	26 55 68	Athletic Field Lighting
	26 55 70	Healthcare Lighting
00	26 55 83 56 00	Broadcast Lighting
26	56 00	Exterior Lighting
	26 56 13	Lighting Poles and Standards
	26 56 17	Fluorescent Exterior Lighting
	26 56 18	Incandescent Exterior Lighting
	26 56 19	LED Exterior Lighting
	26 56 21	HID Exterior Lighting
27	′ 00 00	Communications
27	01 00	Operation and Maintenance of Communications
	0.00	Systems
	27 01 10	
	27 01 10	Operation and Maintenance of Structured Cabling and Enclosures Operation and Maintenance of Data Communications
	27 01 20	Operation and Maintenance of Voice Communications
	27 01 30	Operation and Maintenance of Audio-Video Communications
	27 01 40	Operation and Maintenance of Distributed Communications and Monitoring
27	05 00	Common Work Results for Communications
21	27 05 05	Selective Demolition for Communications
	27 05 05	Cameras for Audio-Visual Systems
	27 05 11	Communications Services
	27 05 13.13	Dialtone Services
	27 05 13.23	T1 Services
	27 05 13.33	DSL Services
	27 05 13.43	Cable Services
	27 05 13.53	Satellite Services
	27 05 26	Grounding and Bonding for Communications Systems
	27 05 28	Pathways for Communications Systems
		HODGORE ON SUPPORTE FOLL OMBUDICATIONS SUSTAMS
	27 05 29	Hangers and Supports for Communications Systems
	27 05 33	Conduits and Backboxes for Communications Systems

	27 05 43	Underground Ducts and Raceways for Communications Systems
	27 05 44	Sleeves and Sleeve Seals for Communications Pathways and Cabling
	27 05 46	Utility Poles for Communications Systems
	27 05 48	Vibration and Seismic Controls for Communications Systems
	27 05 48.16	Seismic Controls for Communications Systems
	27 05 53	Identification for Communications Systems
27	06 00	Schedules for Communications
	27 06 10	Schedules for Structured Cabling and Enclosures
	27 06 20	Schedules for Data Communications
	27 06 30	Schedules for Voice Communications
	27 06 40	Schedules for Audio-Video Communications
	27 06 50	Schedules for Distributed Communications and Monitoring
27	08 00	Commissioning of Communications
27	10 00	Structured Cabling
	11 00	Communications Equipment Room Fittings
	27 11 13	Communications Entrance Protection
	27 11 16	Communications Cabinets, Racks, Frames, and Enclosures
	27 11 19	Communications Termination Blocks and Patch Panels
	27 11 23	Communications Cable Management and Ladder Rack
	27 11 26	Communications Rack Mounted Power Protection and Power Strips
27	13 00	· · · · · · · · · · · · · · · · · · ·
Z I		Communications Backbone Cabling
	27 13 13 27 13 13.13	Communications Copper Backbone Cabling
	27 13 13.13	Communications Copper Cable Splicing and Terminations Communications Optical Fiber Backbone Cabling
	27 13 23.13	Communications Optical Fiber Splicing and Terminations
	27 13 23.13	Communications Coaxial Backbone Cabling
	27 13 33.13	Communications Coaxial Backbone Cabling Communications Coaxial Splicing and Terminations
	27 13 43	Communications Services Cabling
	27 13 43.13	Dialtone Services Cabling
	27 13 43.23	T1 Services Cabling
	27 13 43.33	DSL Services Cabling
	27 13 43.43	Cable Services Cabling
	27 13 43.53	Satellite Services Cabling
27	15 00	Communications Horizontal Cabling
	27 15 01	Communications Horizontal Cabling Applications
	27 15 01.11	Conductors and Cables for Electronic Safety and Security
	27 15 01.13	Video Surveillance Communications Conductors and Cables
	27 15 01.15	Access Control Communications Conductors and Cables
	27 15 01.16	Voice Communications Horizontal Cabling
	27 15 01.17	Intrusion Detection Communications Conductors and Cables
	27 15 01.19	Fire Alarm Communications Conductors and Cables
	27 15 01.23	Audio-Video Communications Horizontal Cabling
	27 15 01.39	Patient Monitoring and Telemetry Communications Horizontal Cabling
	27 15 01.43 27 15 01.46	Nurse Call and Intercom Communications Horizontal Cabling Paging Communications Horizontal Cabling
	27 15 01.40	Intermediate Frequency/Radio Frequency Communications Horizontal Cabling
	27 15 01.43	Antennas Communications Horizontal Cabling
	27 15 13	Communications Copper Horizontal Cabling
	27 15 13	Communications Optical Fiber Horizontal Cabling
	27 15 23	Communications Coaxial Horizontal Cabling
	27 15 43	Communications Faceplates and Connectors

27 16 00	Communications Connecting Cords, Devices, and
	Adapters
27 16 13	Communications Custom Cable Assemblies
27 16 16	Communications Media Converters, Adapters, and Transceivers
27 16 19	Communications Patch Cords, Station Cords, and Cross Connect Wire
27 20 00	Data Communications
27 21 00	Data Communications Network Equipment
27 21 13	Data Communications Firewalls
27 21 16	Data Communications Routers, CSU/DSU, Multiplexers, Codecs, and Modems
27 21 26	Data Communications Network Management
27 21 29	Data Communications Switches and Hubs
27 21 33	Data Communications Wireless Access Points
27 22 00	Data Communications Hardware
27 22 13	Data Communications Mainframes
27 22 16	Data Communications Storage and Backup
27 22 19	Data Communications Servers
27 22 23	Data Communications Desktops
27 22 26	Data Communications Laptops
27 22 29	Data Communications Handhelds
27 24 00	Data Communications Peripheral Data Equipment
27 24 13	Printers
27 24 16	Scanners
27 24 19	External Drives
27 24 23	Audio-Video Devices
27 24 26	Virtual Reality Equipment
27 24 29	Disaster Recovery Equipment
27 25 00	Data Communications Software
27 25 13	Virus Protection Software
27 25 16	Application Suites
27 25 19	Email Software
27 25 23 27 25 26	Graphics/Multimedia Software
27 25 26 27 25 29	Customer Relationship Management Software
27 25 29	Operating System Software Database Software
27 25 37	Virtual Private Network Software
27 25 39	Internet Conferencing Software
27 26 00	Data Communications Programming and Integration
	Services
27 26 13	Web Development
27 26 16	Database Development
27 26 19	Application Development
27 26 23	Network Integration Requirements
27 26 26	Data Communications Integration Requirements
27 30 00	Voice Communications
27 31 00	
21 31 00	Voice Communications Switching and Routing
	Equipment

27 31 13	PBX/ Key Systems
27 31 23	Internet Protocol Voice Switches
27 32 00	Voice Communications Terminal Equipment
27 32 13	Telephone Sets
27 32 16	Wireless Transceivers
27 32 23	Elevator Telephones
27 32 26	Ring-Down Emergency Telephones
27 32 29	Facsimiles and Modems
27 32 36	TTY Equipment
27 32 43	Radio Communications Equipment
27 33 00	Voice Communications Messaging
27 33 16	Voice Mail and Auto Attendant
27 33 23	Interactive Voice Response
27 33 26	Facsimile Servers
27 34 00	Call Accounting
27 34 13 27 34 16	Toll Fraud Equipment and Software
	Telemanagement Software
27 35 00	Call Management
27 35 13	Digital Voice Announcers Automatic Call Distributors
27 35 16 27 35 19	Call Status and Management Displays
27 35 19	Dedicated 911 Systems
27 40 00	Audio-Video Communications
27 41 00	Audio-Video Systems
27 41 13	Architecturally Integrated Audio-Video Equipment
27 41 13 27 41 16	Architecturally Integrated Audio-Video Equipment Integrated Audio-Video Systems and Equipment
27 41 13 27 41 16 27 41 16.25	Architecturally Integrated Audio-Video Equipment Integrated Audio-Video Systems and Equipment Integrated Audio-Video Systems and Equipment for Restaurants and Bars
27 41 13 27 41 16 27 41 16.25 27 41 16.28	Architecturally Integrated Audio-Video Equipment Integrated Audio-Video Systems and Equipment Integrated Audio-Video Systems and Equipment for Restaurants and Bars Integrated Audio-Video Systems and Equipment for Conference Rooms
27 41 13 27 41 16 27 41 16.25	Architecturally Integrated Audio-Video Equipment Integrated Audio-Video Systems and Equipment Integrated Audio-Video Systems and Equipment for Restaurants and Bars
27 41 13 27 41 16 27 41 16.25 27 41 16.28 27 41 16.29 27 41 16.51 27 41 16.52	Architecturally Integrated Audio-Video Equipment Integrated Audio-Video Systems and Equipment Integrated Audio-Video Systems and Equipment for Restaurants and Bars Integrated Audio-Video Systems and Equipment for Conference Rooms Integrated Audio-Video Systems and Equipment for Board Rooms Integrated Audio-Video Systems and Equipment for Classrooms Integrated Audio-Video Systems and Equipment for Religious Facilities
27 41 13 27 41 16 27 41 16.25 27 41 16.28 27 41 16.29 27 41 16.51 27 41 16.52 27 41 16.61	Architecturally Integrated Audio-Video Equipment Integrated Audio-Video Systems and Equipment Integrated Audio-Video Systems and Equipment for Restaurants and Bars Integrated Audio-Video Systems and Equipment for Conference Rooms Integrated Audio-Video Systems and Equipment for Board Rooms Integrated Audio-Video Systems and Equipment for Classrooms Integrated Audio-Video Systems and Equipment for Religious Facilities Integrated Audio-Video Systems and Equipment for Theaters
27 41 13 27 41 16 27 41 16.25 27 41 16.28 27 41 16.51 27 41 16.52 27 41 16.61 27 41 16.62	Architecturally Integrated Audio-Video Equipment Integrated Audio-Video Systems and Equipment Integrated Audio-Video Systems and Equipment for Restaurants and Bars Integrated Audio-Video Systems and Equipment for Conference Rooms Integrated Audio-Video Systems and Equipment for Board Rooms Integrated Audio-Video Systems and Equipment for Classrooms Integrated Audio-Video Systems and Equipment for Religious Facilities Integrated Audio-Video Systems and Equipment for Theaters Integrated Audio-Video Systems and Equipment for Auditoriums
27 41 13 27 41 16 27 41 16.25 27 41 16.28 27 41 16.51 27 41 16.52 27 41 16.61 27 41 16.62 27 41 16.63	Architecturally Integrated Audio-Video Equipment Integrated Audio-Video Systems and Equipment Integrated Audio-Video Systems and Equipment for Restaurants and Bars Integrated Audio-Video Systems and Equipment for Conference Rooms Integrated Audio-Video Systems and Equipment for Board Rooms Integrated Audio-Video Systems and Equipment for Classrooms Integrated Audio-Video Systems and Equipment for Religious Facilities Integrated Audio-Video Systems and Equipment for Theaters Integrated Audio-Video Systems and Equipment for Auditoriums Integrated Audio-Video Systems and Equipment for Stadiums and Arenas
27 41 13 27 41 16 27 41 16.25 27 41 16.28 27 41 16.51 27 41 16.52 27 41 16.61 27 41 16.62 27 41 19	Architecturally Integrated Audio-Video Equipment Integrated Audio-Video Systems and Equipment Integrated Audio-Video Systems and Equipment for Restaurants and Bars Integrated Audio-Video Systems and Equipment for Conference Rooms Integrated Audio-Video Systems and Equipment for Board Rooms Integrated Audio-Video Systems and Equipment for Classrooms Integrated Audio-Video Systems and Equipment for Religious Facilities Integrated Audio-Video Systems and Equipment for Theaters Integrated Audio-Video Systems and Equipment for Auditoriums Integrated Audio-Video Systems and Equipment for Stadiums and Arenas Portable Audio-Video Equipment
27 41 13 27 41 16 27 41 16.25 27 41 16.28 27 41 16.51 27 41 16.52 27 41 16.61 27 41 16.62 27 41 16.63	Architecturally Integrated Audio-Video Equipment Integrated Audio-Video Systems and Equipment Integrated Audio-Video Systems and Equipment for Restaurants and Bars Integrated Audio-Video Systems and Equipment for Conference Rooms Integrated Audio-Video Systems and Equipment for Board Rooms Integrated Audio-Video Systems and Equipment for Classrooms Integrated Audio-Video Systems and Equipment for Religious Facilities Integrated Audio-Video Systems and Equipment for Theaters Integrated Audio-Video Systems and Equipment for Auditoriums Integrated Audio-Video Systems and Equipment for Stadiums and Arenas
27 41 13 27 41 16 27 41 16.25 27 41 16.28 27 41 16.51 27 41 16.52 27 41 16.61 27 41 16.62 27 41 19 27 41 23	Architecturally Integrated Audio-Video Equipment Integrated Audio-Video Systems and Equipment Integrated Audio-Video Systems and Equipment for Restaurants and Bars Integrated Audio-Video Systems and Equipment for Conference Rooms Integrated Audio-Video Systems and Equipment for Board Rooms Integrated Audio-Video Systems and Equipment for Classrooms Integrated Audio-Video Systems and Equipment for Religious Facilities Integrated Audio-Video Systems and Equipment for Theaters Integrated Audio-Video Systems and Equipment for Auditoriums Integrated Audio-Video Systems and Equipment for Stadiums and Arenas Portable Audio-Video Equipment Audio-Video Accessories
27 41 13 27 41 16 27 41 16.25 27 41 16.28 27 41 16.51 27 41 16.52 27 41 16.61 27 41 16.62 27 41 16.63 27 41 19 27 41 23 27 41 33	Architecturally Integrated Audio-Video Equipment Integrated Audio-Video Systems and Equipment or Restaurants and Bars Integrated Audio-Video Systems and Equipment for Conference Rooms Integrated Audio-Video Systems and Equipment for Board Rooms Integrated Audio-Video Systems and Equipment for Classrooms Integrated Audio-Video Systems and Equipment for Religious Facilities Integrated Audio-Video Systems and Equipment for Theaters Integrated Audio-Video Systems and Equipment for Auditoriums Integrated Audio-Video Systems and Equipment for Stadiums and Arenas Portable Audio-Video Equipment Audio-Video Accessories Master Antenna Television Systems
27 41 13 27 41 16 27 41 16.25 27 41 16.28 27 41 16.51 27 41 16.52 27 41 16.61 27 41 16.62 27 41 19 27 41 23 27 41 33 27 41 43	Architecturally Integrated Audio-Video Equipment Integrated Audio-Video Systems and Equipment or Restaurants and Bars Integrated Audio-Video Systems and Equipment for Conference Rooms Integrated Audio-Video Systems and Equipment for Board Rooms Integrated Audio-Video Systems and Equipment for Classrooms Integrated Audio-Video Systems and Equipment for Religious Facilities Integrated Audio-Video Systems and Equipment for Theaters Integrated Audio-Video Systems and Equipment for Auditoriums Integrated Audio-Video Systems and Equipment for Stadiums and Arenas Portable Audio-Video Equipment Audio-Video Accessories Master Antenna Television Systems Audio-Video Conferencing
27 41 13 27 41 16 27 41 16.25 27 41 16.28 27 41 16.51 27 41 16.52 27 41 16.61 27 41 16.62 27 41 16.63 27 41 19 27 41 23 27 41 33 27 41 43 27 42 00	Architecturally Integrated Audio-Video Equipment Integrated Audio-Video Systems and Equipment for Restaurants and Bars Integrated Audio-Video Systems and Equipment for Conference Rooms Integrated Audio-Video Systems and Equipment for Board Rooms Integrated Audio-Video Systems and Equipment for Classrooms Integrated Audio-Video Systems and Equipment for Religious Facilities Integrated Audio-Video Systems and Equipment for Theaters Integrated Audio-Video Systems and Equipment for Auditoriums Integrated Audio-Video Systems and Equipment for Stadiums and Arenas Portable Audio-Video Equipment Audio-Video Accessories Master Antenna Television Systems Audio-Video Conferencing Electronic Digital Systems Transportation Information Display Systems
27 41 13 27 41 16 27 41 16.25 27 41 16.28 27 41 16.29 27 41 16.51 27 41 16.52 27 41 16.61 27 41 16.63 27 41 19 27 41 23 27 41 33 27 41 43 27 42 00 27 42 13	Architecturally Integrated Audio-Video Equipment Integrated Audio-Video Systems and Equipment for Restaurants and Bars Integrated Audio-Video Systems and Equipment for Conference Rooms Integrated Audio-Video Systems and Equipment for Board Rooms Integrated Audio-Video Systems and Equipment for Classrooms Integrated Audio-Video Systems and Equipment for Religious Facilities Integrated Audio-Video Systems and Equipment for Theaters Integrated Audio-Video Systems and Equipment for Auditoriums Integrated Audio-Video Systems and Equipment for Stadiums and Arenas Portable Audio-Video Equipment Audio-Video Accessories Master Antenna Television Systems Audio-Video Conferencing Electronic Digital Systems Point of Sale Systems
27 41 13 27 41 16 27 41 16.25 27 41 16.28 27 41 16.51 27 41 16.52 27 41 16.61 27 41 16.62 27 41 16.63 27 41 19 27 41 23 27 41 33 27 41 43 27 42 00 27 42 13 27 42 16	Architecturally Integrated Audio-Video Equipment Integrated Audio-Video Systems and Equipment for Restaurants and Bars Integrated Audio-Video Systems and Equipment for Conference Rooms Integrated Audio-Video Systems and Equipment for Board Rooms Integrated Audio-Video Systems and Equipment for Classrooms Integrated Audio-Video Systems and Equipment for Religious Facilities Integrated Audio-Video Systems and Equipment for Theaters Integrated Audio-Video Systems and Equipment for Auditoriums Integrated Audio-Video Systems and Equipment for Stadiums and Arenas Portable Audio-Video Equipment Audio-Video Accessories Master Antenna Television Systems Audio-Video Conferencing Electronic Digital Systems Transportation Information Display Systems
27 41 13 27 41 16 27 41 16.25 27 41 16.28 27 41 16.29 27 41 16.51 27 41 16.61 27 41 16.62 27 41 16.63 27 41 19 27 41 23 27 41 33 27 41 43 27 42 00 27 42 13 27 42 16 27 42 19	Architecturally Integrated Audio-Video Equipment Integrated Audio-Video Systems and Equipment Integrated Audio-Video Systems and Equipment for Restaurants and Bars Integrated Audio-Video Systems and Equipment for Conference Rooms Integrated Audio-Video Systems and Equipment for Board Rooms Integrated Audio-Video Systems and Equipment for Classrooms Integrated Audio-Video Systems and Equipment for Religious Facilities Integrated Audio-Video Systems and Equipment for Theaters Integrated Audio-Video Systems and Equipment for Auditoriums Integrated Audio-Video Systems and Equipment for Stadiums and Arenas Portable Audio-Video Equipment Audio-Video Accessories Master Antenna Television Systems Audio-Video Conferencing Electronic Digital Systems Point of Sale Systems Transportation Information Display Systems Public Information Systems Distributed Communications and
27 41 13 27 41 16 27 41 16.25 27 41 16.28 27 41 16.51 27 41 16.52 27 41 16.61 27 41 16.62 27 41 16.63 27 41 19 27 41 23 27 41 33 27 41 33 27 42 10 27 42 13 27 42 16 27 42 19 27 50 00	Architecturally Integrated Audio-Video Equipment Integrated Audio-Video Systems and Equipment Integrated Audio-Video Systems and Equipment for Restaurants and Bars Integrated Audio-Video Systems and Equipment for Conference Rooms Integrated Audio-Video Systems and Equipment for Board Rooms Integrated Audio-Video Systems and Equipment for Classrooms Integrated Audio-Video Systems and Equipment for Religious Facilities Integrated Audio-Video Systems and Equipment for Theaters Integrated Audio-Video Systems and Equipment for Auditoriums Integrated Audio-Video Systems and Equipment for Stadiums and Arenas Portable Audio-Video Equipment Audio-Video Accessories Master Antenna Television Systems Audio-Video Conferencing Electronic Digital Systems Point of Sale Systems Transportation Information Display Systems Public Information Systems Distributed Communications and Monitoring Systems
27 41 13 27 41 16 27 41 16.25 27 41 16.28 27 41 16.51 27 41 16.52 27 41 16.61 27 41 16.62 27 41 16.63 27 41 19 27 41 23 27 41 33 27 41 33 27 41 43 27 42 00 27 42 13 27 42 16 27 42 19 27 50 00	Architecturally Integrated Audio-Video Equipment Integrated Audio-Video Systems and Equipment Integrated Audio-Video Systems and Equipment for Restaurants and Bars Integrated Audio-Video Systems and Equipment for Conference Rooms Integrated Audio-Video Systems and Equipment for Board Rooms Integrated Audio-Video Systems and Equipment for Classrooms Integrated Audio-Video Systems and Equipment for Religious Facilities Integrated Audio-Video Systems and Equipment for Theaters Integrated Audio-Video Systems and Equipment for Auditoriums Integrated Audio-Video Systems and Equipment for Stadiums and Arenas Portable Audio-Video Equipment Audio-Video Accessories Master Antenna Television Systems Audio-Video Conferencing Electronic Digital Systems Point of Sale Systems Transportation Information Display Systems Public Information Systems Distributed Communications and Monitoring Systems Distributed Audio-Video Communications Systems Distributed Audio-Video Communications Systems
27 41 13 27 41 16 27 41 16.25 27 41 16.28 27 41 16.51 27 41 16.52 27 41 16.61 27 41 16.62 27 41 16.63 27 41 19 27 41 23 27 41 33 27 41 33 27 42 10 27 42 13 27 42 16 27 42 19 27 50 00	Architecturally Integrated Audio-Video Equipment Integrated Audio-Video Systems and Equipment Integrated Audio-Video Systems and Equipment for Restaurants and Bars Integrated Audio-Video Systems and Equipment for Conference Rooms Integrated Audio-Video Systems and Equipment for Board Rooms Integrated Audio-Video Systems and Equipment for Classrooms Integrated Audio-Video Systems and Equipment for Religious Facilities Integrated Audio-Video Systems and Equipment for Theaters Integrated Audio-Video Systems and Equipment for Auditoriums Integrated Audio-Video Systems and Equipment for Stadiums and Arenas Portable Audio-Video Equipment Audio-Video Accessories Master Antenna Television Systems Audio-Video Conferencing Electronic Digital Systems Point of Sale Systems Transportation Information Display Systems Public Information Systems Distributed Communications and Monitoring Systems

27 51 19	Sound Masking Systems
27 51 23	Intercommunications and Program Systems
27 51 23.20	Commercial Intercommunications and Program Systems
27 51 23.30	Residential Intercommunications and Program Systems
27 51 23.50	Educational Intercommunications and Program Systems
27 51 23.63	Detention Intercommunications and Program Systems
27 51 23.70	Healthcare Intercommunications and Program Systems
27 51 26	Assistive Listening Systems
27 51 29	Emergency Communications Systems
27 52 00	Healthcare Communications and Monitoring Systems
27 52 13	Patient Monitoring and Telemetry Systems
27 52 16	Telemedicine Systems
27 52 19	Healthcare Imaging Systems
27 52 23	Nurse Call/Code Blue Systems
27 53 00	Distributed Systems
27 53 13	Clock Systems
27 53 13.13	Wireless Clock Systems
27 53 16	Infrared and Radio Frequency Tracking Systems
27 53 19	Internal Cellular, Paging, and Antenna Systems
28 00 00	Electronic Safety and Security
28 01 00	Operation and Maintenance of Electronic Safety and
	Security
28 01 10	Operation and Maintenance of Access Control
28 01 10.51	Maintenance and Administration of Access Control
28 01 10.71	Revisions and Upgrades of Access Control
28 01 20	Operation and Maintenance of Video Surveillance
28 01 20.51	Maintenance and Administration of Video Surveillance
28 01 20.71	Revisions and Upgrades of Video Surveillance
28 01 30	Operation and Maintenance of Security Detection, Alarm, and Monitoring
28 01 30.51	Maintenance and Administration of Security Detection, Alarm, and Monitoring
28 01 30.71	Revisions and Upgrades of Security Detection, Alarm, and Monitoring
28 01 50	Operation and Maintenance of Specialized Systems
28 01 50.51	Maintenance and Administration of Specialized Systems
28 01 50.71	Revisions and Upgrades of Specialized Systems
28 01 60	Operation and Maintenance of Mass Notification
28 01 60.51	Maintenance and Administration of Mass Notification
28 01 60.71	Revisions and Upgrades of Mass Notification
28 01 70 28 01 70.51	Operation and Maintenance of Life Safety Maintenance and Administration of Life Safety
28 01 70.71	Revisions and Upgrades of Life Safety
28 01 80	Operation and Maintenance of Fire Detection and Alarm
28 01 80.51	Maintenance and Administration of Fire Detection and Alarm
28 01 80.71	Revisions and Upgrades of Fire Detection and Alarm
28 05 00	Common Work Results for Electronic Safety and
20 00 00	
00.05.07	Security
28 05 07	Power Sources for Electronic Safety and Security
28 05 07.11 28 05 07.13	Power Sources for Access Control Power Sources for Video Surveillance
28 05 07.15	Power Sources for Intrusion Detection
28 05 07.17	Power Sources for Fire Detection and Alarm
28 05 07.19	Solar Power Sources for Electronic Safety and Security
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28 05 07.21	Poe Power Sources for Electronic Safety and Security
28 05 07.23	Uninterruptible Power Supply
28 05 07.25	Power Source Monitoring
28 05 07.27	Power Source Monitoring Appliances
28 05 07.29	Power Source Monitoring Software
28 05 09	Surge Protection for Electronic Safety and Security
28 05 09.11	Surge Protection for Access Control
28 05 09.13	Surge Protection for Video Surveillance
28 05 09.15	Surge Protection for Intrusion Detection
28 05 09.17	Surge Protection for Fire Detection and Alarm
28 05 11	Cyber Security Requirements for Electronic Safety and Security
28 05 13	Servers, Workstations and Storage for Electronic Safety and Security
28 05 13.11	General Requirements for Servers, Workstations and Storage
28 05 15	Servers for Electronic Safety and Security
28 05 17	Workstations for Electronic Safety and Security
28 05 19	
	Storage Appliances for Electronic Safety and Security
28 05 19.11 28 05 19.13	Digital Video Recorders Hybrid Digital Video Recorders
	Network Video Recorders
28 05 19.15	
28 05 21	Network Attached Storage for Electronic Safety and Security
28 05 23	Storage Area Network for Electronic Safety and Security
28 05 25	Cloud Based Storage for Electronic Safety and Security
28 05 27	Archival Systems for Electronic Safety and Security
28 05 27.11	Digital Tape Storage
28 05 27.13	Storage Media
28 05 29	Storage Management Software for Electronic Safety and Security
28 05 31	Communications Equipment for Electronic Safety and Security
28 05 33	Safety and Security Network Communications Equipment
28 05 33.11	Security Data Communications Firewalls
28 05 33.13	Security Data Communications Routers
28 05 33.15	Security Data Communications Power-Over-Ethernet Switches
28 05 33.17	Security Data Communications Non-Power-Over-Ethernet Switches
28 05 33.19	Security Data Communications Media Converters
28 05 35	Security Data Communications Wireless Transmission Equipment
28 05 35.11	Microwave Transmission Equipment
28 05 37	Security Voice Communications -Distributed Antenna System
28 05 37.11	Bi-Directional Amplifiers
28 05 37.13	Repeaters
28 05 37.15	Remote Repeaters
28 05 39	Antennas
28 05 39.11	Donor Antennas
28 05 39.13	Multi-Band Antennas
28 05 39.15	Band Specific Antennas
28 05 39.17	Radiating Coaxial Cable Other Antennas
28 05 39.19	Signal Controllers
28 05 41	•
28 05 41.11 28 05 41.13	Splitters Directional Couplers
28 05 43	•
28 05 43.11	Security Voice Communications Private Mobile Radio System Base Station
28 05 43.11	Handheld Radio
28 05 45	Systems Integration and Interconnection Requirements
28 05 45.11	Mechanical
28 05 45.11	Electrical
20 00 40.10	Libotiloai

28 05 45.15	Information
28 05 48	Vibration and Seismic Controls for Electronic Safety and Security
28 05 53	Identification for Electronic Safety and Security
28 06 00	Schedules for Electronic Safety and Security
28 06 10	Schedules for Access Control
28 06 20	Schedules for Video Surveillance
28 06 30	Schedules for Security Detection, Alarm, and Monitoring
28 06 40	Schedules for Detention Monitoring and Control
28 06 50	Schedules for Information Management and Display
28 06 60	Schedules for Mass Notification
28 06 70	Schedules for Life Safety
28 06 80	Schedules for Fire Detection and Alarm
28 08 00	Commissioning of Electronic Safety and Security
28 08 11	Testing for Baseline Performance Criteria
28 10 00	Access Control
28 11 00	Access Control Global Applications
28 12 00	General Requirements for Access Control Systems
28 13 00	Access Control Software and Database Management
28 13 11	Access Control Software
28 13 11.11	Access Control Operating Systems
28 13 11.13	Access Control Application Services
28 13 11.15	Access Control Mobile Applications
28 13 13	Access Control Software Interfaces
28 14 00	Access Control System Hardware
28 14 11	Access Control Network Controllers
28 14 13	Access Control Door Controllers
28 14 15	Access Control Inputs and Outputs
28 14 17	Access Control Printers and Encoders
28 14 19	Access Control Enclosures
28 15 00	Access Control Hardware Devices
28 15 11	Integrated Credential Readers and Field Entry Management
28 15 11.11	Standard Card Readers
28 15 11.13 28 15 11.15	Keypads Biometric Identity Devices
28 15 11.17	Combination Reader Devices
28 15 13	Access Control Credentials
28 15 13.11	Access Control Cards
28 15 13.13	Wireless Key Fobs
28 15 15	Electrified Locking Devices & Accessories
28 15 15.11	Direct Interface Integrated Locking Devices
28 15 15.13	Wireless Integrated Locking Devices
28 15 15.15	Intelligent Ethernet Integrated Locking Devices
28 15 15.17 28 15 17	Status Monitoring and Egress Devices
28 15 17.11	Egress Management Devices Magnetic Lock Delayed Egress Devices
28 15 17.11	Panic Hardware Delayed Egress Devices
28 15 19	Access Control Remote Devices
28 15 19.11	Smart Phone Interface Requirements
28 15 19.13	Wireless Access Control Devices
28 15 21	Telephone Entry Systems

28 15 23	Intercom Entry Systems
28 15 23.11	Audio Intercom (Analog)
28 15 23.13	Audio Video Intercom (Analog)
28 15 23.15	Audio Intercom (IP)
28 15 23.17 28 15 25	Audio Video Intercom (IP)
28 15 25	Electronic Key Management Systems Access Control Electronic Turnstiles & Mobility Systems
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28 16 00	Access Control Interfaces
28 16 11	Access Control Interfaces to Access Control Hardware
28 16 13	Access Control Interfaces to Intrusion Detection
28 16 15	Access Control Interfaces to Video Surveillance
28 16 17	Access Control Interfaces to Fire Alarm
28 16 19	Access Control Interfaces to Enterprise Software
28 16 21	Access Control Interfaces to Mechanical Systems
28 16 23	Access Control Interfaces to Electrical Systems
28 16 25	Access Control Interfaces to Electronic Key Management System
28 16 27	Access Control Interfaces to Elevator Controls
28 16 29	Access Control Interfaces to Parking Equipment
28 16 31	Access Control Interfaces to Perimeter Security Systems
28 17 00	Access Control Identification Management Systems
28 17 11	Visitor Management Systems
28 17 13	Self Check In and Kiosk Visitor Systems
28 17 15	Contractor & Vendor Management Systems
28 17 17	Mobile Access Identification Management Systems
28 18 00	Security Access Detection Equipment
28 18 11	Security Access Metal Detectors
28 18 13	Security Access X-Ray Equipment
28 18 15	Security Access Explosive Detection Equipment
28 18 17	Security Access Sniffing Equipment
28 19 00	Access Control Vehicle Identification Systems
28 19 11	Loading Dock Access Management Systems
28 19 13	Parking Garage Access Management Systems
28 19 15	Perimeter Vehicle Access Management Systems
28 20 00	Video Surveillance
28 21 00	Surveillance Cameras
28 21 11	Analog Camera
28 21 13	IP Cameras
28 21 13.11	Panoramic IP Cameras
28 21 15	Specialty Cameras
28 21 17	Camera Housings
28 21 19	Camera Mounts
28 21 21	Illuminators
28 23 00	Video Management System
28 23 11	Video Management System Analytics
28 23 13	Video Management System Interfaces
28 25 00	Video Surveillance Positioning Equipment
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28 27 00	Video Surveillance Sensors
28 30 00	Security Detection, Alarm, and Monitoring

28 31 00	Intrusion Detection
28 31 11	Building Intrusion Detection
28 31 11.11	Building Intrusion Detection Control, Gui, and Logic Systems
28 31 11.13	Building Intrusion Detection Remote Devices and Sensors
28 31 21	Area and Perimeter Intrusion Detection
28 31 21.11	Fiber Optic Area and Perimeter Security Systems
28 31 21.13	Microwave Area and Perimeter Security Systems
28 31 21.15	Integrated Video Area and Perimeter Security Systems
28 31 21.17	Fixed Optical Beam Area and Perimeter Security Systems
28 31 21.19	Lidar Area and Perimeter Security Systems
28 31 21.21	Coaxial Area and Perimeter Security Systems
28 31 21.23	Area and Perimeter Intrusion Detection Devices and Sensors
28 31 31	Intrusion Detection Interfaces
28 31 31.11 28 31 31.13	Intrusion Detection Interfaces to Security Monitoring and Control Intrusion Detection Interfaces to Access Control System
28 31 31.15	Intrusion Detection Interfaces to Video Surveillance
28 31 31.17	Intrusion Detection Interfaces to Information Management and Presentation
28 31 31.19	Intrusion Detection Interfaces to Mass Notification
28 31 31.21	Intrusion Detection Interfaces to Life Safety
28 31 31.23	Intrusion Detection Interfaces to Fire Alarm
28 31 31.25	Intrusion Detection Interfaces to Temperature Controls
28 33 00	Security Monitoring and Control
28 33 11	Electronic Structural Monitoring Systems
28 33 13	Security Operations and Monitoring Center
28 33 15	Security Monitoring and Control Software
28 33 17	Security Monitoring and Control Services
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28 35 00	Tracking Systems
28 35 00 28 35 11	Tracking Systems Asset Tracking Systems
28 35 00 28 35 11 28 35 11.11	Tracking Systems Asset Tracking Systems Rf Asset Tracking Systems
28 35 00 28 35 11 28 35 11.11 28 35 11.13	Tracking Systems Asset Tracking Systems Rf Asset Tracking Systems GPS Asset Tracking Systems
28 35 00 28 35 11 28 35 11.11 28 35 11.13 28 35 11.15	Tracking Systems Asset Tracking Systems Rf Asset Tracking Systems GPS Asset Tracking Systems Cellular Asset Tracking Systems
28 35 00 28 35 11 28 35 11.11 28 35 11.13 28 35 11.15 28 35 13	Tracking Systems Asset Tracking Systems Rf Asset Tracking Systems GPS Asset Tracking Systems Cellular Asset Tracking Systems Personnel Tracking Systems
28 35 00 28 35 11 28 35 11.11 28 35 11.13 28 35 11.15	Tracking Systems Asset Tracking Systems Rf Asset Tracking Systems GPS Asset Tracking Systems Cellular Asset Tracking Systems
28 35 00 28 35 11 28 35 11.11 28 35 11.13 28 35 11.15 28 35 13 28 35 13.11	Tracking Systems Asset Tracking Systems Rf Asset Tracking Systems GPS Asset Tracking Systems Cellular Asset Tracking Systems Personnel Tracking Systems Rf Personnel Tracking Systems
28 35 00 28 35 11 28 35 11.11 28 35 11.13 28 35 11.15 28 35 13 28 35 13.11 28 35 13.11	Tracking Systems Asset Tracking Systems Rf Asset Tracking Systems GPS Asset Tracking Systems Cellular Asset Tracking Systems Personnel Tracking Systems Rf Personnel Tracking Systems GPS Personnel Tracking Systems Cellular Personnel Tracking Systems
28 35 00 28 35 11 28 35 11.11 28 35 11.13 28 35 11.15 28 35 13 28 35 13.11 28 35 13.13 28 35 13.15	Tracking Systems Asset Tracking Systems Rf Asset Tracking Systems GPS Asset Tracking Systems Cellular Asset Tracking Systems Personnel Tracking Systems Rf Personnel Tracking Systems GPS Personnel Tracking Systems Cellular Personnel Tracking Systems Audio Monitoring
28 35 00 28 35 11 28 35 11.11 28 35 11.13 28 35 11.15 28 35 13 28 35 13.11 28 35 13.13 28 35 13.15 28 37 00 28 37 11	Tracking Systems Asset Tracking Systems Rf Asset Tracking Systems GPS Asset Tracking Systems Cellular Asset Tracking Systems Personnel Tracking Systems Rf Personnel Tracking Systems GPS Personnel Tracking Systems Cellular Personnel Tracking Systems Audio Monitoring Audio Monitoring Devices
28 35 00 28 35 11 28 35 11.11 28 35 11.13 28 35 11.15 28 35 13.11 28 35 13.11 28 35 13.13 28 35 13.15 28 37 00 28 37 11 28 40 00	Tracking Systems Asset Tracking Systems Rf Asset Tracking Systems GPS Asset Tracking Systems Cellular Asset Tracking Systems Personnel Tracking Systems Rf Personnel Tracking Systems GPS Personnel Tracking Systems Cellular Personnel Tracking Systems Audio Monitoring Audio Monitoring Devices Life Safety
28 35 00 28 35 11 28 35 11.11 28 35 11.13 28 35 11.15 28 35 13 28 35 13.11 28 35 13.13 28 35 13.15 28 37 00 28 37 11 28 40 00 28 41 00	Tracking Systems Asset Tracking Systems Rf Asset Tracking Systems GPS Asset Tracking Systems Cellular Asset Tracking Systems Personnel Tracking Systems Rf Personnel Tracking Systems GPS Personnel Tracking Systems Cellular Personnel Tracking Systems Audio Monitoring Audio Monitoring Audio Monitoring Devices Life Safety Radiation Detection and Alarm
28 35 00 28 35 11 28 35 11.11 28 35 11.13 28 35 11.15 28 35 13 28 35 13.11 28 35 13.13 28 35 13.15 28 37 00 28 37 11 28 40 00 28 41 00 28 41 11	Tracking Systems Asset Tracking Systems Rf Asset Tracking Systems GPS Asset Tracking Systems Cellular Asset Tracking Systems Personnel Tracking Systems Rf Personnel Tracking Systems GPS Personnel Tracking Systems Cellular Personnel Tracking Systems Audio Monitoring Audio Monitoring Devices Life Safety Radiation Detection and Alarm Radiation Detection and Alarm Control, Gui, and Logic Systems
28 35 00 28 35 11 28 35 11.11 28 35 11.13 28 35 11.15 28 35 13.11 28 35 13.11 28 35 13.15 28 37 00 28 37 11 28 40 00 28 41 00 28 41 11 28 41 13	Tracking Systems Asset Tracking Systems Rf Asset Tracking Systems GPS Asset Tracking Systems Cellular Asset Tracking Systems Personnel Tracking Systems Rf Personnel Tracking Systems GPS Personnel Tracking Systems Cellular Personnel Tracking Systems Cellular Personnel Tracking Systems Audio Monitoring Audio Monitoring Audio Monitoring Devices Life Safety Radiation Detection and Alarm Radiation Detection and Alarm Control, Gui, and Logic Systems Radiation Detection and Alarm Integrated Audio Evacuation Systems
28 35 00 28 35 11 28 35 11.11 28 35 11.13 28 35 11.15 28 35 13.11 28 35 13.11 28 35 13.13 28 35 13.15 28 37 00 28 37 11 28 40 00 28 41 11 28 41 13 28 41 15	Tracking Systems Asset Tracking Systems Rf Asset Tracking Systems GPS Asset Tracking Systems Cellular Asset Tracking Systems Personnel Tracking Systems Rf Personnel Tracking Systems GPS Personnel Tracking Systems Cellular Personnel Tracking Systems Cellular Personnel Tracking Systems Audio Monitoring Audio Monitoring Audio Monitoring Devices Life Safety Radiation Detection and Alarm Radiation Detection and Alarm Control, Gui, and Logic Systems Radiation Detection and Alarm Integrated Audio Evacuation Systems Radiation Detection Sensors
28 35 00 28 35 11 28 35 11.11 28 35 11.13 28 35 11.15 28 35 13.11 28 35 13.13 28 35 13.15 28 37 00 28 37 11 28 40 00 28 41 11 28 41 13 28 41 15 28 41 17	Tracking Systems Asset Tracking Systems Rf Asset Tracking Systems GPS Asset Tracking Systems Cellular Asset Tracking Systems Personnel Tracking Systems Rf Personnel Tracking Systems GPS Personnel Tracking Systems Cellular Personnel Tracking Systems Cellular Personnel Tracking Systems Audio Monitoring Audio Monitoring Audio Monitoring Devices Life Safety Radiation Detection and Alarm Radiation Detection and Alarm Control, Gui, and Logic Systems Radiation Detection and Alarm Integrated Audio Evacuation Systems Radiation Detection Sensors Radiation Dosimeters
28 35 00 28 35 11 28 35 11.11 28 35 11.13 28 35 11.15 28 35 13.11 28 35 13.11 28 35 13.13 28 35 13.15 28 37 00 28 37 11 28 40 00 28 41 11 28 41 13 28 41 15	Tracking Systems Asset Tracking Systems Rf Asset Tracking Systems GPS Asset Tracking Systems Cellular Asset Tracking Systems Personnel Tracking Systems Rf Personnel Tracking Systems GPS Personnel Tracking Systems Cellular Personnel Tracking Systems Cellular Personnel Tracking Systems Audio Monitoring Audio Monitoring Audio Monitoring Devices Life Safety Radiation Detection and Alarm Radiation Detection and Alarm Control, Gui, and Logic Systems Radiation Detection and Alarm Integrated Audio Evacuation Systems Radiation Detection Sensors
28 35 00 28 35 11 28 35 11.11 28 35 11.13 28 35 11.15 28 35 13.11 28 35 13.13 28 35 13.15 28 37 00 28 37 11 28 40 00 28 41 11 28 41 13 28 41 15 28 41 17	Tracking Systems Asset Tracking Systems Rf Asset Tracking Systems GPS Asset Tracking Systems Cellular Asset Tracking Systems Personnel Tracking Systems Rf Personnel Tracking Systems GPS Personnel Tracking Systems Cellular Personnel Tracking Systems Cellular Personnel Tracking Systems Audio Monitoring Audio Monitoring Audio Monitoring Devices Life Safety Radiation Detection and Alarm Radiation Detection and Alarm Control, Gui, and Logic Systems Radiation Detection and Alarm Integrated Audio Evacuation Systems Radiation Detection Sensors Radiation Dosimeters
28 35 00	Tracking Systems Asset Tracking Systems Rf Asset Tracking Systems GPS Asset Tracking Systems Cellular Asset Tracking Systems Personnel Tracking Systems Rf Personnel Tracking Systems GPS Personnel Tracking Systems Cellular Personnel Tracking Systems Cellular Personnel Tracking Systems Audio Monitoring Audio Monitoring Audio Monitoring Devices Life Safety Radiation Detection and Alarm Radiation Detection and Alarm Control, Gui, and Logic Systems Radiation Detection and Alarm Integrated Audio Evacuation Systems Radiation Desimeters Gas Detection and Alarm
28 35 00 28 35 11 28 35 11.11 28 35 11.13 28 35 11.15 28 35 13.13 28 35 13.11 28 35 13.15 28 37 00 28 37 11 28 40 00 28 41 11 28 41 13 28 41 15 28 41 17 28 42 00 28 42 11	Tracking Systems Asset Tracking Systems Rf Asset Tracking Systems GPS Asset Tracking Systems Cellular Asset Tracking Systems Personnel Tracking Systems Rf Personnel Tracking Systems GPS Personnel Tracking Systems Cellular Personnel Tracking Systems Cellular Personnel Tracking Systems Audio Monitoring Audio Monitoring Audio Monitoring Devices Life Safety Radiation Detection and Alarm Radiation Detection and Alarm Control, Gui, and Logic Systems Radiation Detection Sensors Radiation Desimeters Gas Detection and Alarm Gas Detection and Alarm Gas Detection and Alarm Control, Gui, and Logic Systems
28 35 00 28 35 11 28 35 11.11 28 35 11.13 28 35 11.15 28 35 13.13 28 35 13.13 28 35 13.15 28 37 00 28 37 11 28 40 00 28 41 11 28 41 13 28 41 15 28 41 17 28 42 00 28 42 11 28 42 13	Asset Tracking Systems Rf Asset Tracking Systems GPS Asset Tracking Systems Cellular Asset Tracking Systems Personnel Tracking Systems Rf Personnel Tracking Systems GPS Personnel Tracking Systems GPS Personnel Tracking Systems Cellular Personnel Tracking Systems Cellular Personnel Tracking Systems Audio Monitoring Audio Monitoring Audio Monitoring Devices Life Safety Radiation Detection and Alarm Radiation Detection and Alarm Control, Gui, and Logic Systems Radiation Detection Sensors Radiation Dosimeters Gas Detection and Alarm Gas Detection and Alarm Gas Detection and Alarm Integrated Audio Evacuation Systems Gas Detection and Alarm Integrated Audio Evacuation Systems
28 35 00 28 35 11 28 35 11.11 28 35 11.13 28 35 11.15 28 35 13 28 35 13.11 28 35 13.13 28 35 13.15 28 37 00 28 37 11 28 40 00 28 41 11 28 41 13 28 41 15 28 41 17 28 42 00 28 42 11 28 42 13 28 42 15	Asset Tracking Systems Rf Asset Tracking Systems GPS Asset Tracking Systems Cellular Asset Tracking Systems Personnel Tracking Systems Rf Personnel Tracking Systems GPS Personnel Tracking Systems GPS Personnel Tracking Systems Cellular Personnel Tracking Systems Cellular Personnel Tracking Systems Audio Monitoring Audio Monitoring Audio Monitoring Devices Life Safety Radiation Detection and Alarm Radiation Detection and Alarm Control, Gui, and Logic Systems Radiation Detection and Alarm Integrated Audio Evacuation Systems Radiation Dosimeters Gas Detection and Alarm Gas Detection and Alarm Control, Gui, and Logic Systems Gas Detection and Alarm Integrated Audio Evacuation Systems Gas Detection and Alarm Integrated Audio Evacuation Systems Gas Detection Sensors

	28 43 15	Fuel Oil Detection Sensors
28	44 00	Refrigerant Detection and Alarm
	28 44 11	Refrigerant Detection and Alarm Control, Gui, and Logic Systems
	28 44 13	Refrigerant Detection and Alarm Integrated Audio Evacuation Systems
	28 44 15	Refrigerant Detection Sensors
28	45 00	Water Detection and Alarm
	28 45 11	Water Detection and Alarm Control, Gui, and Logic Systems
	28 45 13	Water Detection Sensors
	28 45 15	Building Envelope Water Detection and Alarm
20	46 00	Fire Detection and Alarm
20		
	28 46 10	Detection and Initiation
	28 46 11 28 46 11.11	Fire Sensors and Detectors Linear Heat Detection Sensors
	28 46 11.13	Spot-Type Heat Detection Sensors
	28 46 11.15	Duct Smoke Detection Sensors
	28 46 11.17	Beam Smoke Detection Sensors
	28 46 11.19	Video Smoke Detection Sensors
	28 46 11.21	Carbon-Monoxide Detection Sensors
	28 46 11.23	Combination Sensors
	28 46 11.25	Air Sampling Systems
	28 46 11.27	Other Sensors
	28 46 12 28 46 12.11	Other Initiating Devices Fire Alarm Pull Stations
	28 46 12.11	Fire Alarm Level Detector Switches
	28 46 12.15	Fire Alarm Flow Switches
	28 46 12.17	Fire Alarm Pressure Sensors
	28 46 12.19	Sprinkler Supervisory Devices
	28 46 20	Fire Alarm
	28 46 21.11	Addressable Fire-Alarm Systems
	28 46 21.13	Conventional Fire-Alarm Systems
	28 46 21.15	Protected Premise Systems
	28 46 21.17 28 46 21.19	Proprietary Systems Central Station Systems
	28 46 21.19	Remote Station Systems
	28 46 21.23	Public Emergency Alarm Reporting Systems
	28 46 22	Network Command Centers, Printers and Peripherals for Fire Systems
	28 46 23	Fire Alarm Notification Appliances
	28 46 23.11	Fire Alarm Horns and Strobes
	28 46 23.13	Fire Alarm Speakers
	28 46 23.15	Fire Alarm Low Frequency Sounders
	28 46 23.17	Wide Band Sounders
	28 46 24	Fire Detection and Alarm Emergency Control Function Interfaces
	28 46 24.11	Fire Detection and Alarm Interfaces to Remote Monitoring Fire Detection and Alarm Interfaces to Access Control Hardware
	28 46 24.13 28 46 24.15	Fire Detection and Alarm Interfaces to Access Control Pardware Fire Detection and Alarm Interfaces to Access Control System
	28 46 24.17	Fire Detection and Alarm Interfaces to Intrusion Detection
	28 46 24.19	Fire Detection and Alarm Interfaces to Video Surveillance
	28 46 24.21	Fire Detection and Alarm Interfaces to Elevator Control
	28 46 24.23	Other Fire Detection and Alarm Interfaces
28	47 00	Mass Notification
	28 47 11	General Requirements for Mass Notification
	28 47 13	Mass Notification Software
	28 47 15	Mass Notification Control Panels

28 47 17	Notification Devices and Methods
28 47 17.11	Notification Appliances and Methods Indoors
28 47 17.13	Notification Appliances and Methods Outdoors
28 47 17.15	Notification Appliances and Methods Distributed Recipient
28 47 17.17	Notification Appliances and Methods Public Methods
28 47 21	Mass Notification System Interfaces
28 47 21.11	Notification Interfaces to Access Control Systems
28 47 21.13	Notification Interfaces to Video Surveillance Systems
28 47 21.15	Notification Interfaces to Security Detection, Alarm, and Monitoring
28 47 21.17	Notification Interfaces to Security Monitoring and Control
28 47 21.19	Notification Interfaces to Life Safety Systems
28 47 21.21	Notification Interfaces to Fire Detection and Alarm
28 47 21.23	Notification Interfaces to Detention Systems
28 47 21.25	Notification Interfaces to Emergency Response Systems
28 47 21.27	Notification Interfaces to Network and Facilities Monitoring
28 47 21.29	Notification Interfaces to Web Intelligence
28 47 21.31	Notification Interfaces to Traffic Management and Monitoring Systems
28 47 21.33	Notification Interfaces to Smart Phones
28 47 21.35	Notification Interfaces to Other External Subsystems
28 48 00	Emergency Response Systems
28 48 23	Computer Aided Dispatch
28 49 00	Electronic Personal Protection Systems
28 49 11	Electronic Personal Safety Detection Systems
28 49 13	Electronic Personal Safety Alarm Annunciation and Control Systems
28 49 15	Electronic Personal Safety Interfaces to Remote Monitoring
28 49 17	Electronic Personal Safety Emergency Aid Devices
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28 50 00	Specialized Systems
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28 51 00	Information Management & Presentation
28 51 00 28 51 11	Information Management & Presentation Information Management & Presentation Architecture
28 51 00 28 51 11 28 51 13	Information Management & Presentation Information Management & Presentation Architecture Data and Information Management
28 51 00 28 51 11 28 51 13 28 51 15	Information Management & Presentation Information Management & Presentation Architecture Data and Information Management Information Interfaces to Connected Subsystems
28 51 00 28 51 11 28 51 13 28 51 15 28 51 15.11	Information Management & Presentation Information Management & Presentation Architecture Data and Information Management Information Interfaces to Connected Subsystems Information Interfaces to Access Control Systems
28 51 00 28 51 11 28 51 13 28 51 15 28 51 15.11 28 51 15.13	Information Management & Presentation Information Management & Presentation Architecture Data and Information Management Information Interfaces to Connected Subsystems Information Interfaces to Access Control Systems Information Interfaces to Video Surveillance Systems
28 51 00 28 51 11 28 51 13 28 51 15 28 51 15.11 28 51 15.13 28 51 15.15	Information Management & Presentation Information Management & Presentation Architecture Data and Information Management Information Interfaces to Connected Subsystems Information Interfaces to Access Control Systems Information Interfaces to Video Surveillance Systems Information Interfaces to Security Detection, Alarm, and Monitoring
28 51 00 28 51 11 28 51 13 28 51 15 28 51 15.11 28 51 15.13 28 51 15.15 28 51 15.17	Information Management & Presentation Information Management & Presentation Architecture Data and Information Management Information Interfaces to Connected Subsystems Information Interfaces to Access Control Systems Information Interfaces to Video Surveillance Systems Information Interfaces to Security Detection, Alarm, and Monitoring Information Interfaces to Security Monitoring and Control
28 51 00 28 51 11 28 51 13 28 51 15 28 51 15.11 28 51 15.13 28 51 15.15 28 51 15.17 28 51 15.17	Information Management & Presentation Information Management & Presentation Architecture Data and Information Management Information Interfaces to Connected Subsystems Information Interfaces to Access Control Systems Information Interfaces to Video Surveillance Systems Information Interfaces to Security Detection, Alarm, and Monitoring Information Interfaces to Security Monitoring and Control Information Interfaces to Mass Notification Systems
28 51 00 28 51 11 28 51 13 28 51 15 28 51 15.11 28 51 15.13 28 51 15.15 28 51 15.17 28 51 15.17 28 51 15.19 28 51 15.21	Information Management & Presentation Information Management & Presentation Architecture Data and Information Management Information Interfaces to Connected Subsystems Information Interfaces to Access Control Systems Information Interfaces to Video Surveillance Systems Information Interfaces to Security Detection, Alarm, and Monitoring Information Interfaces to Security Monitoring and Control Information Interfaces to Mass Notification Systems Information Interfaces to Life Safety Systems
28 51 00 28 51 11 28 51 13 28 51 15 28 51 15.11 28 51 15.13 28 51 15.15 28 51 15.17 28 51 15.17 28 51 15.21 28 51 15.23	Information Management & Presentation Information Management & Presentation Architecture Data and Information Management Information Interfaces to Connected Subsystems Information Interfaces to Access Control Systems Information Interfaces to Video Surveillance Systems Information Interfaces to Security Detection, Alarm, and Monitoring Information Interfaces to Security Monitoring and Control Information Interfaces to Mass Notification Systems Information Interfaces to Life Safety Systems Information Interfaces to Fire Detection and Alarm
28 51 00 28 51 11 28 51 13 28 51 15 28 51 15.11 28 51 15.13 28 51 15.15 28 51 15.17 28 51 15.19 28 51 15.21 28 51 15.23 28 51 15.25	Information Management & Presentation Information Management & Presentation Architecture Data and Information Management Information Interfaces to Connected Subsystems Information Interfaces to Access Control Systems Information Interfaces to Video Surveillance Systems Information Interfaces to Security Detection, Alarm, and Monitoring Information Interfaces to Security Monitoring and Control Information Interfaces to Mass Notification Systems Information Interfaces to Life Safety Systems Information Interfaces to Fire Detection and Alarm Information Interfaces to Detention Systems
28 51 00 28 51 11 28 51 13 28 51 15 28 51 15.11 28 51 15.13 28 51 15.15 28 51 15.17 28 51 15.17 28 51 15.21 28 51 15.21 28 51 15.23 28 51 15.25 28 51 15.27	Information Management & Presentation Information Management & Presentation Architecture Data and Information Management Information Interfaces to Connected Subsystems Information Interfaces to Access Control Systems Information Interfaces to Video Surveillance Systems Information Interfaces to Security Detection, Alarm, and Monitoring Information Interfaces to Security Monitoring and Control Information Interfaces to Mass Notification Systems Information Interfaces to Life Safety Systems Information Interfaces to Fire Detection and Alarm Information Interfaces to Detention Systems Information Interfaces to Emergency Response Systems
28 51 00 28 51 11 28 51 13 28 51 15 28 51 15.11 28 51 15.13 28 51 15.15 28 51 15.17 28 51 15.17 28 51 15.21 28 51 15.21 28 51 15.23 28 51 15.25 28 51 15.27 28 51 15.27	Information Management & Presentation Information Management & Presentation Architecture Data and Information Management Information Interfaces to Connected Subsystems Information Interfaces to Access Control Systems Information Interfaces to Video Surveillance Systems Information Interfaces to Security Detection, Alarm, and Monitoring Information Interfaces to Security Monitoring and Control Information Interfaces to Mass Notification Systems Information Interfaces to Life Safety Systems Information Interfaces to Detention Systems Information Interfaces to Detention Systems Information Interfaces to Emergency Response Systems Information Interfaces to License Plate Recognition Systems
28 51 00 28 51 11 28 51 13 28 51 15 28 51 15.11 28 51 15.13 28 51 15.15 28 51 15.17 28 51 15.17 28 51 15.21 28 51 15.21 28 51 15.23 28 51 15.25 28 51 15.27 28 51 15.27 28 51 15.29 28 51 15.31	Information Management & Presentation Information Management & Presentation Architecture Data and Information Management Information Interfaces to Connected Subsystems Information Interfaces to Access Control Systems Information Interfaces to Video Surveillance Systems Information Interfaces to Security Detection, Alarm, and Monitoring Information Interfaces to Security Monitoring and Control Information Interfaces to Mass Notification Systems Information Interfaces to Fire Detection and Alarm Information Interfaces to Detention Systems Information Interfaces to Emergency Response Systems Information Interfaces to License Plate Recognition Systems Information Interfaces to Facial Recognition Systems
28 51 00 28 51 11 28 51 13 28 51 15 28 51 15.11 28 51 15.13 28 51 15.15 28 51 15.17 28 51 15.17 28 51 15.21 28 51 15.23 28 51 15.23 28 51 15.25 28 51 15.27 28 51 15.27 28 51 15.27 28 51 15.31 28 51 15.33	Information Management & Presentation Information Management & Presentation Architecture Data and Information Management Information Interfaces to Connected Subsystems Information Interfaces to Access Control Systems Information Interfaces to Video Surveillance Systems Information Interfaces to Security Detection, Alarm, and Monitoring Information Interfaces to Security Monitoring and Control Information Interfaces to Mass Notification Systems Information Interfaces to Fire Detection and Alarm Information Interfaces to Detention Systems Information Interfaces to Emergency Response Systems Information Interfaces to License Plate Recognition Systems Information Interfaces to Facial Recognition Systems Information Interfaces to Remote Data Structures
28 51 00 28 51 11 28 51 13 28 51 15 28 51 15.11 28 51 15.13 28 51 15.15 28 51 15.17 28 51 15.17 28 51 15.21 28 51 15.21 28 51 15.23 28 51 15.25 28 51 15.27 28 51 15.27 28 51 15.27 28 51 15.33 28 51 15.33 28 51 15.35	Information Management & Presentation Information Management & Presentation Architecture Data and Information Management Information Interfaces to Connected Subsystems Information Interfaces to Access Control Systems Information Interfaces to Video Surveillance Systems Information Interfaces to Security Detection, Alarm, and Monitoring Information Interfaces to Security Monitoring and Control Information Interfaces to Mass Notification Systems Information Interfaces to Life Safety Systems Information Interfaces to Fire Detection and Alarm Information Interfaces to Detention Systems Information Interfaces to Emergency Response Systems Information Interfaces to License Plate Recognition Systems Information Interfaces to Remote Data Structures Information Interfaces to Network and Facilities Monitoring
28 51 00 28 51 11 28 51 13 28 51 15 28 51 15.11 28 51 15.13 28 51 15.15 28 51 15.17 28 51 15.17 28 51 15.21 28 51 15.21 28 51 15.23 28 51 15.25 28 51 15.27 28 51 15.27 28 51 15.27 28 51 15.33 28 51 15.33 28 51 15.35 28 51 15.37	Information Management & Presentation Information Management & Presentation Architecture Data and Information Management Information Interfaces to Connected Subsystems Information Interfaces to Access Control Systems Information Interfaces to Video Surveillance Systems Information Interfaces to Security Detection, Alarm, and Monitoring Information Interfaces to Security Monitoring and Control Information Interfaces to Mass Notification Systems Information Interfaces to Life Safety Systems Information Interfaces to Detention Systems Information Interfaces to Detention Systems Information Interfaces to Emergency Response Systems Information Interfaces to Facial Recognition Systems Information Interfaces to Facial Recognition Systems Information Interfaces to Remote Data Structures Information Interfaces to Network and Facilities Monitoring Information Interfaces to Crowd Sourcing
28 51 00 28 51 11 28 51 13 28 51 15 28 51 15.11 28 51 15.13 28 51 15.15 28 51 15.17 28 51 15.17 28 51 15.21 28 51 15.21 28 51 15.23 28 51 15.25 28 51 15.27 28 51 15.27 28 51 15.33 28 51 15.33 28 51 15.33 28 51 15.35 28 51 15.35 28 51 15.37 28 51 15.37	Information Management & Presentation Information Management & Presentation Architecture Data and Information Management Information Interfaces to Connected Subsystems Information Interfaces to Access Control Systems Information Interfaces to Video Surveillance Systems Information Interfaces to Security Detection, Alarm, and Monitoring Information Interfaces to Security Monitoring and Control Information Interfaces to Mass Notification Systems Information Interfaces to Life Safety Systems Information Interfaces to Fire Detection and Alarm Information Interfaces to Detention Systems Information Interfaces to Emergency Response Systems Information Interfaces to License Plate Recognition Systems Information Interfaces to Facial Recognition Systems Information Interfaces to Remote Data Structures Information Interfaces to Network and Facilities Monitoring Information Interfaces to Crowd Sourcing Information Interfaces to Web Intelligence
28 51 00 28 51 11 28 51 13 28 51 15 28 51 15.11 28 51 15.13 28 51 15.15 28 51 15.17 28 51 15.19 28 51 15.21 28 51 15.21 28 51 15.23 28 51 15.25 28 51 15.27 28 51 15.27 28 51 15.31 28 51 15.31 28 51 15.33 28 51 15.35 28 51 15.37 28 51 15.37 28 51 15.39 28 51 15.41	Information Management & Presentation Information Management & Presentation Architecture Data and Information Management Information Interfaces to Connected Subsystems Information Interfaces to Access Control Systems Information Interfaces to Video Surveillance Systems Information Interfaces to Security Detection, Alarm, and Monitoring Information Interfaces to Security Monitoring and Control Information Interfaces to Mass Notification Systems Information Interfaces to Life Safety Systems Information Interfaces to Fire Detection and Alarm Information Interfaces to Detention Systems Information Interfaces to Emergency Response Systems Information Interfaces to License Plate Recognition Systems Information Interfaces to Remote Data Structures Information Interfaces to Network and Facilities Monitoring Information Interfaces to Web Intelligence Information Interfaces to Traffic Management and Monitoring Systems
28 51 00 28 51 11 28 51 13 28 51 15 28 51 15.11 28 51 15.13 28 51 15.15 28 51 15.17 28 51 15.17 28 51 15.21 28 51 15.21 28 51 15.23 28 51 15.23 28 51 15.25 28 51 15.25 28 51 15.33 28 51 15.31 28 51 15.33 28 51 15.35 28 51 15.37 28 51 15.37 28 51 15.39 28 51 15.41 28 51 15.43	Information Management & Presentation Information Management & Presentation Architecture Data and Information Management Information Interfaces to Connected Subsystems Information Interfaces to Access Control Systems Information Interfaces to Video Surveillance Systems Information Interfaces to Security Detection, Alarm, and Monitoring Information Interfaces to Security Monitoring and Control Information Interfaces to Mass Notification Systems Information Interfaces to Life Safety Systems Information Interfaces to Fire Detection and Alarm Information Interfaces to Detention Systems Information Interfaces to Emergency Response Systems Information Interfaces to Facial Recognition Systems Information Interfaces to Facial Recognition Systems Information Interfaces to Remote Data Structures Information Interfaces to Network and Facilities Monitoring Information Interfaces to Web Intelligence Information Interfaces to Traffic Management and Monitoring Systems Information Interfaces to Environmental Monitoring Systems
28 51 00 28 51 11 28 51 13 28 51 15 28 51 15.11 28 51 15.13 28 51 15.15 28 51 15.17 28 51 15.19 28 51 15.21 28 51 15.23 28 51 15.25 28 51 15.25 28 51 15.27 28 51 15.27 28 51 15.31 28 51 15.31 28 51 15.33 28 51 15.35 28 51 15.37 28 51 15.37 28 51 15.37 28 51 15.37 28 51 15.39 28 51 15.41 28 51 15.43 28 51 15.43	Information Management & Presentation Information Management & Presentation Architecture Data and Information Management Information Interfaces to Connected Subsystems Information Interfaces to Access Control Systems Information Interfaces to Video Surveillance Systems Information Interfaces to Security Detection, Alarm, and Monitoring Information Interfaces to Security Monitoring and Control Information Interfaces to Mass Notification Systems Information Interfaces to Life Safety Systems Information Interfaces to Fire Detection and Alarm Information Interfaces to Detention Systems Information Interfaces to Emergency Response Systems Information Interfaces to License Plate Recognition Systems Information Interfaces to Remote Data Structures Information Interfaces to Network and Facilities Monitoring Information Interfaces to Web Intelligence Information Interfaces to Traffic Management and Monitoring Systems Information Interfaces to Environmental Monitoring Systems Information Interfaces to Environmental Monitoring Systems Information Interfaces to Directly Connected Sensors
28 51 00 28 51 11 28 51 13 28 51 15 28 51 15.11 28 51 15.13 28 51 15.15 28 51 15.17 28 51 15.19 28 51 15.21 28 51 15.21 28 51 15.23 28 51 15.25 28 51 15.27 28 51 15.27 28 51 15.31 28 51 15.31 28 51 15.33 28 51 15.35 28 51 15.35 28 51 15.37 28 51 15.37 28 51 15.39 28 51 15.41 28 51 15.43 28 51 15.43 28 51 15.45 28 51 15.47	Information Management & Presentation Information Management & Presentation Architecture Data and Information Management Information Interfaces to Connected Subsystems Information Interfaces to Access Control Systems Information Interfaces to Video Surveillance Systems Information Interfaces to Security Detection, Alarm, and Monitoring Information Interfaces to Security Monitoring and Control Information Interfaces to Mass Notification Systems Information Interfaces to Life Safety Systems Information Interfaces to Fire Detection and Alarm Information Interfaces to Detention Systems Information Interfaces to Emergency Response Systems Information Interfaces to License Plate Recognition Systems Information Interfaces to Remote Data Structures Information Interfaces to Network and Facilities Monitoring Information Interfaces to Web Intelligence Information Interfaces to Traffic Management and Monitoring Systems Information Interfaces to Environmental Monitoring Systems Information Interfaces to Directly Connected Sensors Information Interfaces to Other Safety and Security Subsystems
28 51 00 28 51 11 28 51 13 28 51 15 28 51 15.11 28 51 15.13 28 51 15.15 28 51 15.17 28 51 15.17 28 51 15.21 28 51 15.23 28 51 15.23 28 51 15.25 28 51 15.27 28 51 15.27 28 51 15.27 28 51 15.31 28 51 15.31 28 51 15.33 28 51 15.33 28 51 15.35 28 51 15.37 28 51 15.37 28 51 15.41 28 51 15.41 28 51 15.41 28 51 15.45 28 51 15.47 28 51 15.47	Information Management & Presentation Information Management & Presentation Architecture Data and Information Management Information Interfaces to Connected Subsystems Information Interfaces to Access Control Systems Information Interfaces to Video Surveillance Systems Information Interfaces to Security Detection, Alarm, and Monitoring Information Interfaces to Security Monitoring and Control Information Interfaces to Mass Notification Systems Information Interfaces to Life Safety Systems Information Interfaces to Fire Detection and Alarm Information Interfaces to Detention Systems Information Interfaces to Emergency Response Systems Information Interfaces to License Plate Recognition Systems Information Interfaces to Facial Recognition Systems Information Interfaces to Remote Data Structures Information Interfaces to Network and Facilities Monitoring Information Interfaces to Crowd Sourcing Information Interfaces to Traffic Management and Monitoring Systems Information Interfaces to Environmental Monitoring Systems Information Interfaces to Directly Connected Sensors Information Interfaces to Other Safety and Security Subsystems Information Interfaces to Other External Subsystems
28 51 00 28 51 11 28 51 13 28 51 15 28 51 15.11 28 51 15.13 28 51 15.15 28 51 15.17 28 51 15.19 28 51 15.21 28 51 15.21 28 51 15.23 28 51 15.25 28 51 15.27 28 51 15.27 28 51 15.31 28 51 15.31 28 51 15.33 28 51 15.35 28 51 15.35 28 51 15.37 28 51 15.37 28 51 15.39 28 51 15.41 28 51 15.43 28 51 15.43 28 51 15.45 28 51 15.47	Information Management & Presentation Information Management & Presentation Architecture Data and Information Management Information Interfaces to Connected Subsystems Information Interfaces to Access Control Systems Information Interfaces to Video Surveillance Systems Information Interfaces to Security Detection, Alarm, and Monitoring Information Interfaces to Security Monitoring and Control Information Interfaces to Mass Notification Systems Information Interfaces to Life Safety Systems Information Interfaces to Fire Detection and Alarm Information Interfaces to Detention Systems Information Interfaces to Emergency Response Systems Information Interfaces to License Plate Recognition Systems Information Interfaces to Remote Data Structures Information Interfaces to Network and Facilities Monitoring Information Interfaces to Web Intelligence Information Interfaces to Traffic Management and Monitoring Systems Information Interfaces to Environmental Monitoring Systems Information Interfaces to Directly Connected Sensors Information Interfaces to Other Safety and Security Subsystems

	28 51 17.13	Visualization
	28 51 17.15	Events/Alarms/Incidents
	28 51 17.17	Video Workspace
	28 51 17.19 28 51 17.21	Dispatch/Notification Review and Investigation
	28 51 17.23	Reporting
	28 51 19	Control Room and Monitoring Equipment
	28 51 19.11	Display/Workstations
	28 51 19.13	Video Walls
	28 51 19.15	Audio Equipment
	28 51 19.17	Remote Displays
28	52 00	Detention Security Systems
	28 52 11	Detention Monitoring and Control Systems
	28 52 13	Detention Interfaces to Connected Subsystems
	28 52 13.11	Detention Interfaces to Access Control Systems
	28 52 13.13	Detention Interfaces to Video Surveillance Systems
	28 52 13.15	Detention Interfaces to Security Detention, Alarm, and Monitoring
	28 52 13.17	Detention Interfaces to Security Monitoring and Control
	28 52 13.19	Detention Interfaces to Duress Alarm Systems
	28 52 13.21 28 52 13.23	Detention Interfaces to Distributed Television Systems Detention Interfaces to Perimeter Security Systems
	28 52 15.25	Video Support Systems for Detention
	28 52 15.11	Video Support Systems for Determion Video Interrogation System
	28 52 15.11	Video Arraignment System
	28 52 15.15	Video Visitation System
24	00 00	
	00 00	Earthwork
	01 00	Maintenance of Earthwork
	01 00 31 01 10	Maintenance of Earthwork Maintenance of Clearing
	01 00 31 01 10 31 01 20	Maintenance of Earthwork Maintenance of Clearing Maintenance of Earth Moving
	01 00 31 01 10 31 01 20 31 01 40	Maintenance of Earthwork Maintenance of Clearing Maintenance of Earth Moving Maintenance of Shoring and Underpinning
	01 00 31 01 10 31 01 20 31 01 40 31 01 50	Maintenance of Earthwork Maintenance of Clearing Maintenance of Earth Moving Maintenance of Shoring and Underpinning Maintenance of Excavation Support and Protection
	01 00 31 01 10 31 01 20 31 01 40 31 01 50 31 01 60	Maintenance of Earthwork Maintenance of Clearing Maintenance of Earth Moving Maintenance of Shoring and Underpinning Maintenance of Excavation Support and Protection Maintenance of Special Foundations and Load Bearing Elements
	01 00 31 01 10 31 01 20 31 01 40 31 01 50 31 01 60 31 01 62	Maintenance of Earthwork Maintenance of Clearing Maintenance of Earth Moving Maintenance of Shoring and Underpinning Maintenance of Excavation Support and Protection Maintenance of Special Foundations and Load Bearing Elements Maintenance of Driven Piles
	01 00 31 01 10 31 01 20 31 01 40 31 01 50 31 01 60 31 01 62 31 01 62.61	Maintenance of Earthwork Maintenance of Clearing Maintenance of Earth Moving Maintenance of Shoring and Underpinning Maintenance of Excavation Support and Protection Maintenance of Special Foundations and Load Bearing Elements Maintenance of Driven Piles Driven Pile Repairs
	01 00 31 01 10 31 01 20 31 01 40 31 01 50 31 01 60 31 01 62 31 01 62.61 31 01 63	Maintenance of Earthwork Maintenance of Clearing Maintenance of Earth Moving Maintenance of Shoring and Underpinning Maintenance of Excavation Support and Protection Maintenance of Special Foundations and Load Bearing Elements Maintenance of Driven Piles Driven Pile Repairs Maintenance of Bored and Augered Piles
	01 00 31 01 10 31 01 20 31 01 40 31 01 50 31 01 60 31 01 62 31 01 62.61 31 01 63 31 01 63.61	Maintenance of Earthwork Maintenance of Clearing Maintenance of Earth Moving Maintenance of Shoring and Underpinning Maintenance of Excavation Support and Protection Maintenance of Special Foundations and Load Bearing Elements Maintenance of Driven Piles Driven Pile Repairs Maintenance of Bored and Augered Piles Bored and Augered Pile Repairs
	01 00 31 01 10 31 01 20 31 01 40 31 01 50 31 01 60 31 01 62 31 01 62.61 31 01 63 31 01 63.61 31 01 70	Maintenance of Earthwork Maintenance of Clearing Maintenance of Earth Moving Maintenance of Shoring and Underpinning Maintenance of Excavation Support and Protection Maintenance of Special Foundations and Load Bearing Elements Maintenance of Driven Piles Driven Pile Repairs Maintenance of Bored and Augered Piles Bored and Augered Pile Repairs Maintenance of Tunneling and Mining
31	01 00 31 01 10 31 01 20 31 01 40 31 01 50 31 01 60 31 01 62 31 01 62.61 31 01 63 31 01 63.61 31 01 70 31 01 70.61	Maintenance of Earthwork Maintenance of Clearing Maintenance of Earth Moving Maintenance of Shoring and Underpinning Maintenance of Excavation Support and Protection Maintenance of Special Foundations and Load Bearing Elements Maintenance of Driven Piles Driven Pile Repairs Maintenance of Bored and Augered Piles Bored and Augered Pile Repairs Maintenance of Tunneling and Mining Tunnel Leak Repairs
31	01 00 31 01 10 31 01 20 31 01 40 31 01 50 31 01 60 31 01 62 31 01 62.61 31 01 63 31 01 63.61 31 01 70 31 01 70.61 05 00	Maintenance of Earthwork Maintenance of Clearing Maintenance of Earth Moving Maintenance of Shoring and Underpinning Maintenance of Excavation Support and Protection Maintenance of Special Foundations and Load Bearing Elements Maintenance of Driven Piles Driven Pile Repairs Maintenance of Bored and Augered Piles Bored and Augered Pile Repairs Maintenance of Tunneling and Mining Tunnel Leak Repairs Common Work Results for Earthwork
31	01 00 31 01 10 31 01 20 31 01 40 31 01 50 31 01 60 31 01 62 31 01 62.61 31 01 63 31 01 63.61 31 01 70 31 01 70.61 05 00 31 05 05	Maintenance of Earthwork Maintenance of Clearing Maintenance of Earth Moving Maintenance of Shoring and Underpinning Maintenance of Excavation Support and Protection Maintenance of Special Foundations and Load Bearing Elements Maintenance of Driven Piles Driven Pile Repairs Maintenance of Bored and Augered Piles Bored and Augered Pile Repairs Maintenance of Tunneling and Mining Tunnel Leak Repairs Common Work Results for Earthwork Selective Demolition for Earthwork
31	01 00 31 01 10 31 01 20 31 01 40 31 01 50 31 01 60 31 01 62 31 01 62.61 31 01 63.61 31 01 70 31 01 70.61 05 00 31 05 05 31 05 13	Maintenance of Earthwork Maintenance of Clearing Maintenance of Earth Moving Maintenance of Shoring and Underpinning Maintenance of Excavation Support and Protection Maintenance of Special Foundations and Load Bearing Elements Maintenance of Driven Piles Driven Pile Repairs Maintenance of Bored and Augered Piles Bored and Augered Pile Repairs Maintenance of Tunneling and Mining Tunnel Leak Repairs Common Work Results for Earthwork Selective Demolition for Earthwork Soils for Earthwork
31	01 00 31 01 10 31 01 20 31 01 40 31 01 50 31 01 62 31 01 62 31 01 63 31 01 63 31 01 63.61 31 01 70 31 01 70.61 05 00 31 05 05 31 05 13 31 05 16	Maintenance of Clearing Maintenance of Earth Moving Maintenance of Shoring and Underpinning Maintenance of Shoring and Underpinning Maintenance of Excavation Support and Protection Maintenance of Special Foundations and Load Bearing Elements Maintenance of Driven Piles Driven Pile Repairs Maintenance of Bored and Augered Piles Bored and Augered Pile Repairs Maintenance of Tunneling and Mining Tunnel Leak Repairs Common Work Results for Earthwork Selective Demolition for Earthwork Soils for Earthwork Aggregates for Earthwork
31	01 00 31 01 10 31 01 20 31 01 40 31 01 50 31 01 62 31 01 62.61 31 01 63.61 31 01 70 31 01 70.61 05 00 31 05 15 31 05 16 31 05 19	Maintenance of Clearing Maintenance of Earth Moving Maintenance of Shoring and Underpinning Maintenance of Shoring and Underpinning Maintenance of Excavation Support and Protection Maintenance of Special Foundations and Load Bearing Elements Maintenance of Driven Piles Driven Pile Repairs Maintenance of Bored and Augered Piles Bored and Augered Pile Repairs Maintenance of Tunneling and Mining Tunnel Leak Repairs Common Work Results for Earthwork Selective Demolition for Earthwork Soils for Earthwork Aggregates for Earthwork Geosynthetics for Earthwork
31	01 00 31 01 10 31 01 20 31 01 40 31 01 50 31 01 62 31 01 62 31 01 63 31 01 63 31 01 63.61 31 01 70 31 01 70.61 05 00 31 05 05 31 05 13 31 05 16	Maintenance of Clearing Maintenance of Earth Moving Maintenance of Shoring and Underpinning Maintenance of Shoring and Underpinning Maintenance of Excavation Support and Protection Maintenance of Special Foundations and Load Bearing Elements Maintenance of Driven Piles Driven Pile Repairs Maintenance of Bored and Augered Piles Bored and Augered Pile Repairs Maintenance of Tunneling and Mining Tunnel Leak Repairs Common Work Results for Earthwork Selective Demolition for Earthwork Soils for Earthwork Aggregates for Earthwork
31	01 00 31 01 10 31 01 20 31 01 40 31 01 50 31 01 60 31 01 62 31 01 62.61 31 01 63.61 31 01 70 31 01 70.61 05 00 31 05 05 31 05 16 31 05 19 31 05 19.13	Maintenance of Earthwork Maintenance of Clearing Maintenance of Earth Moving Maintenance of Shoring and Underpinning Maintenance of Excavation Support and Protection Maintenance of Special Foundations and Load Bearing Elements Maintenance of Driven Piles Driven Pile Repairs Maintenance of Bored and Augered Piles Bored and Augered Pile Repairs Maintenance of Tunneling and Mining Tunnel Leak Repairs Common Work Results for Earthwork Selective Demolition for Earthwork Soils for Earthwork Geosynthetics for Earthwork Geotextiles for Earthwork
31	01 00 31 01 10 31 01 20 31 01 40 31 01 50 31 01 60 31 01 62 31 01 62.61 31 01 63.61 31 01 70 31 01 70.61 05 00 31 05 05 31 05 13 31 05 19 31 05 19.13 31 05 19.13 31 05 19.19 31 05 19.23	Maintenance of Earthwork Maintenance of Clearing Maintenance of Earth Moving Maintenance of Shoring and Underpinning Maintenance of Excavation Support and Protection Maintenance of Special Foundations and Load Bearing Elements Maintenance of Driven Piles Driven Pile Repairs Maintenance of Bored and Augered Piles Bored and Augered Pile Repairs Maintenance of Tunneling and Mining Tunnel Leak Repairs Common Work Results for Earthwork Selective Demolition for Earthwork Soils for Earthwork Aggregates for Earthwork Geosynthetics for Earthwork Geomembranes for Earthwork Geogrids for Earthwork Geogrids for Earthwork Geosynthetic Clay Liners
31	01 00 31 01 10 31 01 20 31 01 40 31 01 50 31 01 60 31 01 62 31 01 62.61 31 01 63.61 31 01 70 31 01 70.61 05 00 31 05 05 31 05 13 31 05 19 31 05 19.13 31 05 19.16 31 05 19.19 31 05 19.23 31 05 19.26	Maintenance of Earthwork Maintenance of Clearing Maintenance of Earth Moving Maintenance of Shoring and Underpinning Maintenance of Excavation Support and Protection Maintenance of Special Foundations and Load Bearing Elements Maintenance of Driven Piles Driven Pile Repairs Maintenance of Bored and Augered Piles Bored and Augered Pile Repairs Maintenance of Tunneling and Mining Tunnel Leak Repairs Common Work Results for Earthwork Selective Demolition for Earthwork Soils for Earthwork Aggregates for Earthwork Geosynthetics for Earthwork Geogrids for Earthwork Geogrids for Earthwork Geosynthetic Clay Liners Geocomposites
31	01 00 31 01 10 31 01 20 31 01 40 31 01 50 31 01 60 31 01 62 31 01 62.61 31 01 63.61 31 01 63.61 31 01 70 31 01 70.61 05 00 31 05 05 31 05 13 31 05 16 31 05 19 31 05 19.13 31 05 19.16 31 05 19.19 31 05 19.23 31 05 19.26 31 05 19.29	Maintenance of Earthwork Maintenance of Clearing Maintenance of Earth Moving Maintenance of Shoring and Underpinning Maintenance of Excavation Support and Protection Maintenance of Special Foundations and Load Bearing Elements Maintenance of Driven Piles Driven Pile Repairs Maintenance of Bored and Augered Piles Bored and Augered Pile Repairs Maintenance of Tunneling and Mining Tunnel Leak Repairs Common Work Results for Earthwork Selective Demolition for Earthwork Soils for Earthwork Aggregates for Earthwork Geosynthetics for Earthwork Geomembranes for Earthwork Geogrids for Earthwork Geosynthetic Clay Liners Geocomposites Geonets
31	01 00 31 01 10 31 01 20 31 01 40 31 01 50 31 01 60 31 01 62 31 01 62.61 31 01 63.61 31 01 70 31 01 70.61 05 00 31 05 05 31 05 13 31 05 19 31 05 19.13 31 05 19.16 31 05 19.19 31 05 19.23 31 05 19.26	Maintenance of Earthwork Maintenance of Clearing Maintenance of Earth Moving Maintenance of Shoring and Underpinning Maintenance of Excavation Support and Protection Maintenance of Special Foundations and Load Bearing Elements Maintenance of Driven Piles Driven Pile Repairs Maintenance of Bored and Augered Piles Bored and Augered Pile Repairs Maintenance of Tunneling and Mining Tunnel Leak Repairs Common Work Results for Earthwork Selective Demolition for Earthwork Soils for Earthwork Aggregates for Earthwork Geosynthetics for Earthwork Geogrids for Earthwork Geogrids for Earthwork Geosynthetic Clay Liners Geocomposites

	31 06 10 31 06 20	Schedules for Clearing Schedules for Earth Moving
	31 06 20.13	Trench Dimension Schedule
	31 06 20.16	Backfill Material Schedule
	31 06 40 31 06 50	Schedules for Shoring and Underpinning Schedules for Excavation Support and Protection
	31 06 60	Schedules for Special Foundations and Load Bearing Elements
	31 06 60.13	Driven Pile Schedule
	31 06 60.16	Caisson Schedule
	31 06 70	Schedules for Tunneling and Mining
31	08 00	Commissioning of Earthwork
	31 08 13	Pile Load Testing
	31 08 13.13 31 08 13.16	Dynamic Pile Load Testing Static Pile Load Testing
31	09 00	Geotechnical Instrumentation and Monitoring of
		Earthwork
	31 09 13	Geotechnical Instrumentation and Monitoring
	31 09 13.13	Groundwater Monitoring During Construction
	31 09 16	Foundation Performance Instrumentation
0 4	31 09 16.26	Bored and Augered Pile Load Tests
	10 00	Site Clearing
_	11 00	Clearing and Grubbing
31	12 00	Selective Clearing
31	13 00	Selective Tree and Shrub Removal and Trimming
	31 13 13	Selective Tree and Shrub Removal
~ 4	31 13 16	Selective Tree and Shrub Trimming
31	14 00	Earth Stripping and Stockpiling
	31 14 13 31 14 13.13	Soil Stripping and Stockpiling Soil Stripping
	31 14 13.16	Soil Stripping Soil Stockpiling
	31 14 13.23	Topsoil Stripping and Stockpiling
	31 14 16	Sod Stripping and Stockpiling
	31 14 16.13 31 14 16.16	Sod Stripping
24	20 00	Sod Stockpiling
		Earth Moving
31	21 00	Off-Gassing Mitigation
	31 21 13 31 21 13.13	Radon Mitigation Radon Venting
	31 21 16	Methane Mitigation
	31 21 16.13	Methane Venting
31	22 00	Grading
	31 22 13	Rough Grading
	31 22 16	Fine Grading
	31 22 16.13	Roadway Subgrade Reshaping
	31 22 19 31 22 19.13	Finish Grading Spreading and Grading Topsoil
31	23 00	Excavation and Fill
JI	31 23 13	Subgrade Preparation
	0.2010	Carginado i Toparationi

31 23 16 31 23 16.13 31 23 16.16 31 23 16.26 31 23 19 31 23 23.13 31 23 23.23 31 23 23.23 31 23 23.43 31 23 33	Excavation Trenching Structural Excavation for Minor Structures Rock Removal Dewatering Fill Backfill Compaction Flowable Fill Geofoam Trenching and Backfilling
24 00	Embankments
31 24 13 31 24 16	Roadway Embankments Railway Embankments
	Erosion and Sedimentation Controls
31 25 14 31 25 14.13 31 25 14.16 31 25 24 31 25 24.13 31 25 34 31 25 34.13	Stabilization Measures for Erosion and Sedimentation Control Hydraulically-Applied Erosion Control Rolled Erosion Control Mats and Blankets Structural Measures for Erosion and Sedimentation Control Rock Barriers Retention Measures for Erosion and Sedimentation Controls Rock Basins
30 00	Earthwork Methods
31 00 31 31 13 31 31 13.16 31 31 13.19 31 31 13.23 31 31 13.26 31 31 16.13 31 31 16.16 31 31 16.19 31 31 19 31 31 19.13 31 31 33	Soil Treatment Rodent Control Rodent Control Bait Systems Rodent Control Traps Rodent Control Electronic Systems Rodent Control Repellants Termite Control Chemical Termite Control Termite Control Bait Systems Termite Control Barriers Vegetation Control Chemical Vegetation Control Sanitary Vacuum System Piping
	Soil Stabilization Soil Mixing Stabilization
31 32 13.13 31 32 13.16 31 32 13.19 31 32 13.23 31 32 13.26 31 32 16.13 31 32 16.13 31 32 17 31 32 19 31 32 19.13 31 32 19.16 31 32 19.19 31 32 19.19 31 32 19.23	Asphalt Soil Stabilization Cement Soil Stabilization Lime Soil Stabilization Fly-Ash Soil Stabilization Lime-Fly-Ash Soil Stabilization Chemical Treatment Soil Stabilization Polymer Emulsion Soil Stabilization Water Injection Soil Stabilization Geosynthetic Soil Stabilization and Layer Separation Geogrid Soil Stabilization Geotextile Soil Stabilization Geotextile Layer Separation Geotextile Layer Separation
	31 23 16.13 31 23 16.16 31 23 16.26 31 23 19 31 23 23.33 31 23 23.23 31 23 23.43 31 23 23.43 31 23 23.43 31 23 23.43 31 23 23.43 31 24 16 25 00 31 24 13 31 25 14.13 31 25 14.13 31 25 24 31 25 24.13 31 25 34.13 31 25 34.13 31 25 34.13 31 25 34.13 31 31 13.16 31 31 13.19 31 31 13.23 31 31 13.23 31 31 16.13 31 31 16.13 31 31 16.13 31 31 16.13 31 31 16.13 31 31 16.16 31 31 16.19 31 31 19.13 31 31 19.13 31 31 19.13 31 32 13.13 31 32 13.13

31 32 23.13 31 32 23.16 31 32 33 31 32 36 31 32 36.13 31 32 36.16 31 32 36.29 31 32 36.23 31 32 36.26 31 33 00 31 33 13 31 33 23 31 33 23 31 33 26 31 33 33 31 33 43	Cementitious Pressure Grouting Soil Stabilization Chemical Pressure Grouting Soil Stabilization Shotcrete Soil Slope Stabilization Soil Nailing Driven Soil Nailing Grouted Soil Nailing Corrosion-Protected Soil Nailing Jet-Grouted Soil Nailing Launched Soil Nailing Launched Soil Nailing Rock Stabilization Rock Bolting and Grouting Rock Slope Netting Rock Slope Wire Mesh Shotcrete Rock Slope Stabilization Vegetated Rock Slope Stabilization
31 34 00	Soil Reinforcement
31 34 19	Geosynthetic Soil Reinforcement
31 34 19.13	Geogrid Soil Reinforcement
31 34 19.16	Geotextile Soil Reinforcement
31 34 23	Fiber Soil Reinforcement
31 34 23.13	Geosynthetic Fiber Soil Reinforcement
31 35 00	Slope Protection
31 35 19	Geosynthetic Slope Protection
31 35 19.13	Geogrid Slope Protection
31 35 19.16 31 35 19.19	Geotextile Slope Protection Slope Protection with Mulch Control Netting
31 35 23	Slope Protection with Slope Paving
31 35 23.13	Cast-In-Place Concrete Slope Paving
31 35 23.16	Precast Concrete Slope Paving
31 35 23.19	Concrete Unit Masonry Slope Paving
31 35 26	Containment Barriers
31 35 26.13	Clay Containment Barriers
31 35 26.16 31 35 26.23	Geomembrane Containment Barriers Bentonite Slurry Trench
31 36 00	Gabions
31 36 13	Gabion Boxes
31 36 19	Gabion Mattresses
31 36 19.13	Vegetated Gabion Mattresses
31 37 00	Riprap
31 37 13	Machined Riprap
31 37 16	Non-Machined Riprap
31 37 16.13	Rubble-Stone Riprap
31 37 16.16	Concrete Unit Masonry Riprap
31 37 16.19	Sacked Sand-Cement Riprap
31 40 00	Shoring and Underpinning
31 41 00	Shoring
31 41 13	Timber Shoring
31 41 16	Sheet Piling
31 41 16.13	Steel Sheet Piling
31 41 16.16	Plastic Sheet Piling
31 41 19	Metal Hydraulic Shoring

	31 41 19.13	Aluminum Hydraulic Shoring
	31 41 23	Pneumatic Shoring
	31 41 33	Trench Shielding
31	43 00	Concrete Raising
	31 43 13	Pressure Grouting
	31 43 13.13	Concrete Pressure Grouting
	31 43 13.16	Polyurethane Pressure Grouting
	31 43 16	Compaction Grouting
	31 43 19	Mechanical Jacking
31	45 00	Vibroflotation and Densification
	31 45 13	Vibroflotation
	31 45 16	Densification
31	46 00	Needle Beams
	31 46 13	Cantilever Needle Beams
31	48 00	Underpinning
	31 48 13	Underpinning Piers
	31 48 19	Bracket Piers
	31 48 23	Jacked Piers
	31 48 33	Micropile Underpinning
31	50 00	Excavation Support and Protection
	51 00	Anchor Tiebacks
	31 51 13	Excavation Soil Anchors
	31 51 16	Excavation Rock Anchors
31	52 00	Cofferdams
•	31 52 13	Sheet Piling Cofferdams
	31 52 16	Timber Cofferdams
	31 52 19	Precast Concrete Cofferdams
31	53 00	Cribbing and Walers
	31 53 13	Timber Cribwork
31	54 00	Ground Freezing
31	56 00	Slurry Walls
•	31 56 13	Bentonite Slurry Walls
	31 56 13.13	Soil-Bentonite Slurry Walls
	31 56 13.16	Cement-Bentonite Slurry Walls
	31 56 13.19	Slag-Cement-Bentonite Slurry Walls
	31 56 13.23 31 56 13.26	Soil-Cement-Bentonite Slurry Walls Pozzolan-Bentonite Slurry Walls
	31 56 13.29	Organically-Modified Bentonite Slurry Walls
	31 56 16	Attipulgite Slurry Walls
	31 56 16.13	Soil-Attipulgite Slurry Walls
	31 56 19	Slurry-Geomembrane Composite Slurry Walls
	31 56 23	Lean Concrete Slurry Walls
	31 56 26	Bio-Polymer Trench Drain
31	60 00	Special Foundations and Load-Bearing
		Elements
31	62 00	Driven Piles
	31 62 13	Concrete Piles

31	31 62 13.13 31 62 13.16 31 62 13.19 31 62 13.23 31 62 13.26 31 62 16.13 31 62 16.16 31 62 16.19 31 62 19 31 62 23 31 62 23.13 31 62 23.16 63 00	Cast-in-Place Concrete Piles Concrete Displacement Piles Precast Concrete Piles Prestressed Concrete Piles Pressure-Injected Footings Steel Piles Steel Piles Sheet Steel Piles Steel H Piles Unfilled Tubular Steel Piles Timber Piles Composite Piles Concrete-Filled Steel Piles Wood and Cast-In-Place Concrete Piles Bored Piles
J I	31 63 13	Bored and Augered Test Piles
	31 63 16	Auger Cast Grout Piles
	31 63 19	Bored and Socketed Piles
	31 63 19.13	Rock Sockets for Piles
	31 63 23	Bored Concrete Piles
	31 63 23.13	Bored and Belled Concrete Piles
	31 63 23.16 31 63 26	Bored Friction Concrete Piles Drilled Caissons
	31 63 26.13	Fixed End Caisson Piles
	31 63 26.16	Concrete Caissons for Marine Construction
	31 63 29	Drilled Concrete Piers and Shafts
	31 63 29.13 31 63 29.16	Uncased Drilled Concrete Piers Cased Drilled Concrete Piers
	31 63 33	Drilled Micropiles
31	64 00	Caissons
	31 64 13	Box Caissons
		Francisco de al Ocioneses
	31 64 16	Excavated Caissons
	31 64 19	Floating Caissons
	31 64 19 31 64 23	Floating Caissons Open Caissons
	31 64 19 31 64 23 31 64 26	Floating Caissons Open Caissons Pneumatic Caissons
24	31 64 19 31 64 23 31 64 26 31 64 29	Floating Caissons Open Caissons Pneumatic Caissons Sheeted Caissons
31	31 64 19 31 64 23 31 64 26 31 64 29 66 00	Floating Caissons Open Caissons Pneumatic Caissons Sheeted Caissons Special Foundations
31	31 64 19 31 64 23 31 64 26 31 64 29 66 00 31 66 13	Floating Caissons Open Caissons Pneumatic Caissons Sheeted Caissons Special Foundations Special Piles
31	31 64 19 31 64 23 31 64 26 31 64 29 66 00	Floating Caissons Open Caissons Pneumatic Caissons Sheeted Caissons Special Foundations
31	31 64 19 31 64 23 31 64 26 31 64 29 66 00 31 66 13 31 66 13.13	Floating Caissons Open Caissons Pneumatic Caissons Sheeted Caissons Special Foundations Special Piles Rammed Aggregate Piles Helical Foundation Piles Special Foundation Walls
31	31 64 19 31 64 23 31 64 26 31 64 29 66 00 31 66 13 31 66 15 31 66 16 31 66 16.13	Floating Caissons Open Caissons Pneumatic Caissons Sheeted Caissons Special Foundations Special Piles Rammed Aggregate Piles Helical Foundation Piles Special Foundation Walls Anchored Foundation Walls
31	31 64 19 31 64 23 31 64 26 31 64 29 66 00 31 66 13 31 66 15 31 66 16 31 66 16.13 31 66 16.23	Floating Caissons Open Caissons Pneumatic Caissons Sheeted Caissons Special Foundations Special Piles Rammed Aggregate Piles Helical Foundation Piles Special Foundation Walls Anchored Foundation Walls Concrete Cribbing Foundation Walls
31	31 64 19 31 64 23 31 64 26 31 64 29 66 00 31 66 13 31 66 15 31 66 16 31 66 16.13 31 66 16.23 31 66 16.26	Floating Caissons Open Caissons Pneumatic Caissons Sheeted Caissons Special Foundations Special Piles Rammed Aggregate Piles Helical Foundation Piles Special Foundation Walls Anchored Foundation Walls Concrete Cribbing Foundation Walls Metal Cribbing Foundation Walls
31	31 64 19 31 64 23 31 64 26 31 64 29 66 00 31 66 13 31 66 15 31 66 16 31 66 16.13 31 66 16.23	Floating Caissons Open Caissons Pneumatic Caissons Sheeted Caissons Special Foundations Special Piles Rammed Aggregate Piles Helical Foundation Piles Special Foundation Walls Anchored Foundation Walls Concrete Cribbing Foundation Walls
31	31 64 19 31 64 23 31 64 26 31 64 29 66 00 31 66 13 31 66 15 31 66 16 31 66 16.23 31 66 16.23 31 66 16.26 31 66 16.33 31 66 16.43 31 66 16.44	Floating Caissons Open Caissons Pneumatic Caissons Sheeted Caissons Special Foundations Special Piles Rammed Aggregate Piles Helical Foundation Piles Special Foundation Walls Anchored Foundation Walls Concrete Cribbing Foundation Walls Metal Cribbing Foundation Walls Manufactured Modular Foundation Walls Mechanically Stabilized Earth Foundation Walls Slurry Diaphragm Foundation Walls
31	31 64 19 31 64 23 31 64 26 31 64 29 66 00 31 66 13 31 66 15 31 66 16 31 66 16.23 31 66 16.23 31 66 16.33 31 66 16.43 31 66 16.43 31 66 16.43	Floating Caissons Open Caissons Pneumatic Caissons Sheeted Caissons Special Foundations Special Piles Rammed Aggregate Piles Helical Foundation Piles Special Foundation Walls Anchored Foundation Walls Concrete Cribbing Foundation Walls Metal Cribbing Foundation Walls Manufactured Modular Foundation Walls Mechanically Stabilized Earth Foundation Walls Slurry Diaphragm Foundation Walls Soldier-Beam Foundation Walls
31	31 64 19 31 64 23 31 64 26 31 64 29 66 00 31 66 13 31 66 15 31 66 16 31 66 16.13 31 66 16.23 31 66 16.26 31 66 16.33 31 66 16.43 31 66 16.43 31 66 16.53 31 66 16.53	Floating Caissons Open Caissons Pneumatic Caissons Sheeted Caissons Special Foundations Special Piles Rammed Aggregate Piles Helical Foundation Piles Special Foundation Walls Anchored Foundation Walls Concrete Cribbing Foundation Walls Metal Cribbing Foundation Walls Manufactured Modular Foundation Walls Mechanically Stabilized Earth Foundation Walls Slurry Diaphragm Foundation Walls Soldier-Beam Foundation Walls Permanently-Anchored Soldier-Beam Foundation Walls
	31 64 19 31 64 23 31 64 26 31 64 29 66 00 31 66 13 31 66 15 31 66 16 31 66 16.13 31 66 16.23 31 66 16.26 31 66 16.33 31 66 16.43 31 66 16.43 31 66 16.53 31 66 16.56 31 66 19	Floating Caissons Open Caissons Pneumatic Caissons Sheeted Caissons Special Foundations Special Piles Rammed Aggregate Piles Helical Foundation Piles Special Foundation Walls Anchored Foundation Walls Anchored Foundation Walls Concrete Cribbing Foundation Walls Metal Cribbing Foundation Walls Manufactured Modular Foundation Walls Mechanically Stabilized Earth Foundation Walls Slurry Diaphragm Foundation Walls Soldier-Beam Foundation Walls Permanently-Anchored Soldier-Beam Foundation Walls Refrigerated Foundations
	31 64 19 31 64 23 31 64 26 31 64 29 66 00 31 66 13 31 66 15 31 66 16 31 66 16.13 31 66 16.23 31 66 16.26 31 66 16.33 31 66 16.43 31 66 16.43 31 66 16.53 31 66 16.53	Floating Caissons Open Caissons Pneumatic Caissons Sheeted Caissons Special Foundations Special Piles Rammed Aggregate Piles Helical Foundation Piles Special Foundation Walls Anchored Foundation Walls Concrete Cribbing Foundation Walls Metal Cribbing Foundation Walls Manufactured Modular Foundation Walls Mechanically Stabilized Earth Foundation Walls Slurry Diaphragm Foundation Walls Soldier-Beam Foundation Walls Permanently-Anchored Soldier-Beam Foundation Walls

31 70 00	Tunneling and Mining
31 71 00	Tunnel Excavation
31 71 13	Shield Driving Tunnel Excavation
31 71 16	Tunnel Excavation by Drilling and Blasting
31 71 19	Tunnel Excavation by Tunnel Boring Machine
31 71 23	Tunneling by Cut and Cover
31 72 00	Tunnel Support Systems
31 72 13	Rock Reinforcement and Initial Support
31 72 16	Steel Ribs and Lagging
31 73 00	Tunnel Grouting
31 73 13 31 73 16	Cement Tunnel Grouting Chemical Tunnel Grouting
31 74 00	Tunnel Construction
31 74 00	Cast-in-Place Concrete Tunnel Lining
31 74 16	Precast Concrete Tunnel Lining
31 74 19	Shotcrete Tunnel Lining
31 75 00	Shaft Construction
31 75 13	Cast-in-Place Concrete Shaft Lining
31 75 16	Precast Concrete Shaft Lining
31 77 00	Submersible Tube Tunnels
31 77 13	Trench Excavation for Submerged Tunnels
31 77 16	Tube Construction (Outfitting Tunnel Tubes)
31 77 19	Floating and Laying Submerged Tunnels
00 00 00	
32 00 00	Exterior Improvements
32 01 00	Operation and Maintenance of Exterior Improvements
32 01 00 32 01 11	Operation and Maintenance of Exterior Improvements Paving Cleaning
32 01 00 32 01 11 32 01 11.51	Operation and Maintenance of Exterior Improvements Paving Cleaning Rubber and Paint Removal from Paving
32 01 00 32 01 11	Operation and Maintenance of Exterior Improvements Paving Cleaning
32 01 00 32 01 11 32 01 11.51 32 01 11.52 32 01 11.53 32 01 13	Operation and Maintenance of Exterior Improvements Paving Cleaning Rubber and Paint Removal from Paving Rubber Removal from Paving Paint Removal from Paving Flexible Paving Surface Treatment
32 01 00 32 01 11 32 01 11.51 32 01 11.52 32 01 11.53 32 01 13 32 01 13.61	Operation and Maintenance of Exterior Improvements Paving Cleaning Rubber and Paint Removal from Paving Rubber Removal from Paving Paint Removal from Paving Flexible Paving Surface Treatment Slurry Seal (Latex Modified)
32 01 00 32 01 11 32 01 11.51 32 01 11.52 32 01 11.53 32 01 13 32 01 13.61 32 01 13.62	Operation and Maintenance of Exterior Improvements Paving Cleaning Rubber and Paint Removal from Paving Rubber Removal from Paving Paint Removal from Paving Plexible Paving Surface Treatment Slurry Seal (Latex Modified) Asphalt Surface Treatment
32 01 00 32 01 11 32 01 11.51 32 01 11.52 32 01 11.53 32 01 13 32 01 13.61	Operation and Maintenance of Exterior Improvements Paving Cleaning Rubber and Paint Removal from Paving Rubber Removal from Paving Paint Removal from Paving Plexible Paving Surface Treatment Slurry Seal (Latex Modified) Asphalt Surface Treatment Flexible Paving Rehabilitation Cold Milling Asphalt Paving
32 01 00 32 01 11 32 01 11.51 32 01 11.52 32 01 11.53 32 01 13 32 01 13.61 32 01 13.62 32 01 16 32 01 16.71 32 01 16.72	Operation and Maintenance of Exterior Improvements Paving Cleaning Rubber and Paint Removal from Paving Rubber Removal from Paving Paint Removal from Paving Flexible Paving Surface Treatment Slurry Seal (Latex Modified) Asphalt Surface Treatment Flexible Paving Rehabilitation Cold Milling Asphalt Paving Asphalt Paving Reuse
32 01 00 32 01 11 32 01 11.51 32 01 11.52 32 01 11.53 32 01 13.61 32 01 13.61 32 01 13.62 32 01 16.71 32 01 16.71 32 01 16.72 32 01 16.73	Operation and Maintenance of Exterior Improvements Paving Cleaning Rubber and Paint Removal from Paving Rubber Removal from Paving Paint Removal from Paving Flexible Paving Surface Treatment Slurry Seal (Latex Modified) Asphalt Surface Treatment Flexible Paving Rehabilitation Cold Milling Asphalt Paving Asphalt Paving Reuse In Place Cold Reused Asphalt Paving
32 01 00 32 01 11 32 01 11.51 32 01 11.52 32 01 11.53 32 01 13 32 01 13.61 32 01 13.62 32 01 16 32 01 16.71 32 01 16.72	Operation and Maintenance of Exterior Improvements Paving Cleaning Rubber and Paint Removal from Paving Rubber Removal from Paving Paint Removal from Paving Flexible Paving Surface Treatment Slurry Seal (Latex Modified) Asphalt Surface Treatment Flexible Paving Rehabilitation Cold Milling Asphalt Paving Asphalt Paving Reuse In Place Cold Reused Asphalt Paving In Place Hot Reused Asphalt Paving
32 01 00 32 01 11 32 01 11.51 32 01 11.52 32 01 11.53 32 01 13.61 32 01 13.62 32 01 16.71 32 01 16.71 32 01 16.72 32 01 16.73 32 01 16.74 32 01 16.74 32 01 16.75 32 01 17	Operation and Maintenance of Exterior Improvements Paving Cleaning Rubber and Paint Removal from Paving Rubber Removal from Paving Paint Removal from Paving Plexible Paving Surface Treatment Slurry Seal (Latex Modified) Asphalt Surface Treatment Flexible Paving Rehabilitation Cold Milling Asphalt Paving Asphalt Paving Reuse In Place Cold Reused Asphalt Paving In Place Hot Reused Asphalt Paving Heater Scarifying of Asphalt Paving Flexible Paving Repair
32 01 00 32 01 11 32 01 11.51 32 01 11.52 32 01 11.53 32 01 13.61 32 01 13.62 32 01 16.71 32 01 16.71 32 01 16.72 32 01 16.73 32 01 16.74 32 01 16.75 32 01 17.61	Operation and Maintenance of Exterior Improvements Paving Cleaning Rubber and Paint Removal from Paving Rubber Removal from Paving Paint Removal from Paving Plexible Paving Surface Treatment Slurry Seal (Latex Modified) Asphalt Surface Treatment Flexible Paving Rehabilitation Cold Milling Asphalt Paving Asphalt Paving Reuse In Place Cold Reused Asphalt Paving In Place Hot Reused Asphalt Paving Heater Scarifying of Asphalt Paving Flexible Paving Repair Sealing Cracks in Asphalt Paving
32 01 00 32 01 11 32 01 11.51 32 01 11.52 32 01 11.53 32 01 13.61 32 01 13.62 32 01 16.71 32 01 16.71 32 01 16.72 32 01 16.73 32 01 16.74 32 01 16.75 32 01 17.61 32 01 17.61 32 01 17.62	Operation and Maintenance of Exterior Improvements Paving Cleaning Rubber and Paint Removal from Paving Rubber Removal from Paving Paint Removal from Paving Plexible Paving Surface Treatment Slurry Seal (Latex Modified) Asphalt Surface Treatment Flexible Paving Rehabilitation Cold Milling Asphalt Paving Asphalt Paving Reuse In Place Cold Reused Asphalt Paving In Place Hot Reused Asphalt Paving Heater Scarifying of Asphalt Paving Flexible Paving Repair Sealing Cracks in Asphalt Paving Stress-Absorbing Membrane Interlayer
32 01 00 32 01 11 32 01 11.51 32 01 11.52 32 01 11.53 32 01 13.61 32 01 13.62 32 01 16.71 32 01 16.71 32 01 16.72 32 01 16.73 32 01 16.74 32 01 16.75 32 01 17.61	Operation and Maintenance of Exterior Improvements Paving Cleaning Rubber and Paint Removal from Paving Rubber Removal from Paving Paint Removal from Paving Plexible Paving Surface Treatment Slurry Seal (Latex Modified) Asphalt Surface Treatment Flexible Paving Rehabilitation Cold Milling Asphalt Paving Asphalt Paving Reuse In Place Cold Reused Asphalt Paving In Place Hot Reused Asphalt Paving Heater Scarifying of Asphalt Paving Flexible Paving Repair Sealing Cracks in Asphalt Paving
32 01 00 32 01 11 32 01 11.51 32 01 11.52 32 01 11.53 32 01 13.61 32 01 13.62 32 01 16.71 32 01 16.72 32 01 16.73 32 01 16.74 32 01 16.75 32 01 17 32 01 17.61 32 01 17.62 32 01 19 32 01 19.61 32 01 19.62	Operation and Maintenance of Exterior Improvements Paving Cleaning Rubber and Paint Removal from Paving Rubber Removal from Paving Paint Removal from Paving Plexible Paving Surface Treatment Slurry Seal (Latex Modified) Asphalt Surface Treatment Flexible Paving Rehabilitation Cold Milling Asphalt Paving Asphalt Paving Reuse In Place Cold Reused Asphalt Paving In Place Hot Reused Asphalt Paving Heater Scarifying of Asphalt Paving Flexible Paving Repair Sealing Cracks in Asphalt Paving Stress-Absorbing Membrane Interlayer Rigid Paving Surface Treatment Sealing of Joints in Rigid Paving Patching of Rigid Paving
32 01 00 32 01 11 32 01 11.51 32 01 11.52 32 01 11.53 32 01 13.61 32 01 13.62 32 01 16.71 32 01 16.72 32 01 16.73 32 01 16.74 32 01 16.75 32 01 17 32 01 17.61 32 01 17.61 32 01 19.61 32 01 19.61 32 01 19.62 32 01 23	Operation and Maintenance of Exterior Improvements Paving Cleaning Rubber and Paint Removal from Paving Rubber Removal from Paving Paint Removal from Paving Flexible Paving Surface Treatment Slurry Seal (Latex Modified) Asphalt Surface Treatment Flexible Paving Rehabilitation Cold Milling Asphalt Paving Asphalt Paving Reuse In Place Cold Reused Asphalt Paving In Place Hot Reused Asphalt Paving Heater Scarifying of Asphalt Paving Flexible Paving Repair Sealing Cracks in Asphalt Paving Stress-Absorbing Membrane Interlayer Rigid Paving Surface Treatment Sealing of Joints in Rigid Paving Patching of Rigid Paving Base Course Reconditioning
32 01 00 32 01 11 32 01 11.51 32 01 11.52 32 01 11.53 32 01 13.61 32 01 13.62 32 01 16.71 32 01 16.71 32 01 16.72 32 01 16.73 32 01 16.74 32 01 16.75 32 01 17 32 01 17.61 32 01 17.61 32 01 19.61 32 01 19.61 32 01 23 32 01 26	Operation and Maintenance of Exterior Improvements Paving Cleaning Rubber and Paint Removal from Paving Rubber Removal from Paving Paint Removal from Paving Paint Removal from Paving Flexible Paving Surface Treatment Slurry Seal (Latex Modified) Asphalt Surface Treatment Flexible Paving Rehabilitation Cold Milling Asphalt Paving Asphalt Paving Reuse In Place Cold Reused Asphalt Paving In Place Hot Reused Asphalt Paving Heater Scarifying of Asphalt Paving Flexible Paving Repair Sealing Cracks in Asphalt Paving Stress-Absorbing Membrane Interlayer Rigid Paving Surface Treatment Sealing of Joints in Rigid Paving Patching of Rigid Paving Base Course Reconditioning Rigid Paving Rehabilitation
32 01 00 32 01 11 32 01 11.51 32 01 11.52 32 01 11.53 32 01 13.61 32 01 13.62 32 01 16.71 32 01 16.72 32 01 16.73 32 01 16.74 32 01 16.75 32 01 17 32 01 17.61 32 01 17.61 32 01 19.61 32 01 19.61 32 01 19.62 32 01 23	Operation and Maintenance of Exterior Improvements Paving Cleaning Rubber and Paint Removal from Paving Rubber Removal from Paving Paint Removal from Paving Flexible Paving Surface Treatment Slurry Seal (Latex Modified) Asphalt Surface Treatment Flexible Paving Rehabilitation Cold Milling Asphalt Paving Asphalt Paving Reuse In Place Cold Reused Asphalt Paving In Place Hot Reused Asphalt Paving Heater Scarifying of Asphalt Paving Flexible Paving Repair Sealing Cracks in Asphalt Paving Stress-Absorbing Membrane Interlayer Rigid Paving Surface Treatment Sealing of Joints in Rigid Paving Patching of Rigid Paving Base Course Reconditioning

	32 01 26.74	Concrete Overlays
	32 01 26.75	Concrete Paving Reuse
	32 01 29	Rigid Paving Repair
	32 01 29.61	Partial Depth Patching of Rigid Paving
	32 01 29.62	Concrete Paving Raising
	32 01 29.63	Subsealing and Stabilization
	32 01 30	Operation and Maintenance of Site Improvements
	32 01 30.13	Snow Removal
	32 01 80	Operation and Maintenance of Irrigation
	32 01 90	Operation and Maintenance of Planting
	32 01 90.13	Fertilizing
	32 01 90.16	Amending Soils
	32 01 90.19	Mowing
	32 01 90.23	Pruning
	32 01 90.26	Watering
	32 01 90.29	Topsoil Preservation
	32 01 90.33	Tree and Shrub Preservation
32	05 00	Common Work Results for Exterior Improvements
-	32 05 05	Selective Demolition for Exterior Improvements
	32 05 03	•
		Soils for Exterior Improvements
	32 05 16	Aggregates for Exterior Improvements
	32 05 19	Geosynthetics for Exterior Improvements
	32 05 19.13	Geotextiles for Exterior Improvements
	32 05 19.16	Geomembranes for Exterior Improvements
	32 05 19.19	Geogrids for Exterior Improvements
	32 05 23	Cement and Concrete for Exterior Improvements
	32 05 33	Common Work Results for Planting
32	06 00	Schedules for Exterior Improvements
	32 06 10	Schedules for Bases, Ballasts, and Paving
	32 06 10.13	Pedestrian Walkway Schedule
	32 06 30	Schedules for Site Improvements
	32 06 30.13	Retaining Wall Schedule
	32 06 80	Schedules for Irrigation
	32 06 80.13	Irrigation Piping Schedule
	32 06 90	Schedules for Planting
	32 06 90.13	Planting Schedule
32	08 00	Commissioning of Exterior Improvements
3 2	10 00	Bases, Ballasts, and Paving
32	11 00	Base Courses
_	32 11 13	Subgrade Modifications
	32 11 13.13	Lime-Treated Subgrades
	32 11 13.16	Bituminous-Treated Subgrades
	32 11 16	Subbase Courses
	32 11 16.13	Sand-Clay Subbase Courses
	32 11 16.16	Aggregate Subbase Courses
	32 11 23	Aggregate Base Courses
	32 11 23.13	Sand-Clay Base Courses
	32 11 23.23	Base Course Drainage Layers
	32 11 26	Asphaltic Base Courses
	32 11 26.13	Plant Mix Asphaltic Base Courses
	JU U	a topilattio Baco Coalcoo
	32 11 26.16	
	32 11 26.16 32 11 26.19	Road Mix Asphaltic Base Courses Bituminous-Stabilized Base Courses

32 11 29 32 11 29.13 32 11 33 32 11 33.13 32 11 36.13 32 11 36.13 32 11 36.16 32 11 36.19 32 11 39	Lime Treated Base Courses Lime-Fly Ash-Treated Base Courses Cement-Treated Base Courses Portland Cement-Stabilized Base Courses Concrete Base Courses Soil-Cement Concrete Base Courses Lean Concrete Base Courses Plain Cement Concrete Base Courses Hydraulic Cement Concrete Base Courses Shell Base Course
32 12 00	Flexible Paving
32 12 13 32 12 13.13 32 12 13.19 32 12 13.23 32 12 16.33 32 12 16.19 32 12 16.19 32 12 16.23 32 12 16.29 32 12 16.33 32 12 16.36 32 12 16.36 32 12 19.13 32 12 19.13 32 12 19.13 32 12 19.16 32 12 19.19 32 12 36.13 32 12 36.13	Preparatory Coats Tack Coats Asphaltic Tack Coats Prime Coats Asphaltic Prime Coats Asphalt Paving Plant-Mix Asphalt Paving Road-Mix Asphalt Paving Cold-Mix Asphalt Paving Reinforced Asphalt Paving Fiber-Modified Asphalt Paving Polymer-Modified Asphalt Paving Granulated Rubber-Modified Asphalt Paving Athletic Asphalt Paving Asphalt Paving Wearing Courses Road-Mix Asphalt Paving Wearing Courses Road-Mix Asphalt Paving Wearing Courses Porous Friction Asphalt Paving Wearing Courses Porous Friction Asphalt Paving Wearing Courses Flexible Paving Surface Treatments Seal Coats Asphaltic Seal and Fog Coats Coal Tar Seal Coats Coal Tar Seal Coats Coal Tar Seal Coats with Unvulcanized Rubber Fuel-Resistant Sealers Porous Flexible Paving Asphalt Paving Joint Sealants
	_ i
32 13 00 32 13 13.13 32 13 13.16 32 13 13.17 32 13 13.19 32 13 13.23 32 13 13.26 32 13 13.33 32 13 16. 32 13 16.13 32 13 16.19 32 13 16.23 32 13 73 32 13 73.13 32 13 73.13	Rigid Paving Concrete Paving Exposed Aggregate Concrete Paving Power-Compacted Concrete Paving Roller-Compacted Concrete Paving Prestressed Concrete Paving Concrete Paving Surface Treatment Stained Concrete Paving Plain Concrete Paving Decorative Concrete Paving Patterned Concrete Paving Imprinted Concrete Paving Stamped Concrete Paving Pervious Concrete Paving Concrete Paving Pervious Concrete Paving Concrete Paving Concrete Paving Concrete Paving Concrete Paving Concrete Paving Joint Sealants Fuel-Resistant Concrete Paving Joint Sealants

32 13 73.19	Compression Concrete Paving Joint Sealants
32 14 00	Unit Paving
32 14 13	Precast Concrete Unit Paving
32 14 13.13	Interlocking Precast Concrete Unit Paving
32 14 13.16	Precast Concrete Unit Paving Slabs
32 14 13.19 32 14 16	Porous Precast Concrete Unit Paving Brick Unit Paving
32 14 10	Asphalt Unit Paving
32 14 26	Wood Paving
32 14 29	Rubber Paving
32 14 33	Plastic Paving
32 14 33.13	Permeable Plastic Paving
32 14 40	Stone Paving
32 14 43	Porous Unit Paving
32 15 00	Aggregate Surfacing
32 15 13	Cinder Surfacing
32 15 40	Crushed Stone Surfacing
32 15 50	Aggregate-Turf Pavement
32 16 00	Curbs, Gutters, Sidewalks, and Driveways
32 16 13	Curbs and Gutters
32 16 13.13	Cast-In-Place Concrete Curbs and Gutters
32 16 13.16	Steel Faced Curbs
32 16 13.23	Precast Concrete Curbs and Gutters
32 16 13.33	Asphalt Curbs
32 16 13.43	Stone Curbs
32 16 23 32 16 33	Sidewalks Driveways
	Diiveways
32 17 00	Paving Specialties
32 17 00 32 17 13	Paving Specialties Parking Bumpers
32 17 00 32 17 13 32 17 13.13	Paving Specialties Parking Bumpers Metal Parking Bumpers
32 17 00 32 17 13 32 17 13.13 32 17 13.16	Paving Specialties Parking Bumpers Metal Parking Bumpers Plastic Parking Bumpers
32 17 00 32 17 13 32 17 13.13	Paving Specialties Parking Bumpers Metal Parking Bumpers Plastic Parking Bumpers Precast Concrete Parking Bumpers
32 17 00 32 17 13 32 17 13.13 32 17 13.16 32 17 13.19	Paving Specialties Parking Bumpers Metal Parking Bumpers Plastic Parking Bumpers Precast Concrete Parking Bumpers Rubber Parking Bumpers Wood Parking Bumpers
32 17 00 32 17 13 32 17 13.13 32 17 13.16 32 17 13.19 32 17 13.23 32 17 13.26 32 17 16	Paving Specialties Parking Bumpers Metal Parking Bumpers Plastic Parking Bumpers Precast Concrete Parking Bumpers Rubber Parking Bumpers Wood Parking Bumpers Manufactured Traffic-Calming Devices
32 17 00 32 17 13 32 17 13.13 32 17 13.16 32 17 13.19 32 17 13.23 32 17 13.26 32 17 16 32 17 23	Paving Specialties Parking Bumpers Metal Parking Bumpers Plastic Parking Bumpers Precast Concrete Parking Bumpers Rubber Parking Bumpers Wood Parking Bumpers Manufactured Traffic-Calming Devices Pavement Markings
32 17 00 32 17 13 32 17 13.13 32 17 13.16 32 17 13.19 32 17 13.23 32 17 13.26 32 17 16 32 17 23 32 17 23.13	Paving Specialties Parking Bumpers Metal Parking Bumpers Plastic Parking Bumpers Precast Concrete Parking Bumpers Rubber Parking Bumpers Wood Parking Bumpers Manufactured Traffic-Calming Devices Pavement Markings Painted Pavement Markings
32 17 00 32 17 13 32 17 13.13 32 17 13.16 32 17 13.19 32 17 13.23 32 17 13.26 32 17 16 32 17 23 32 17 23.13 32 17 23.23	Paving Specialties Parking Bumpers Metal Parking Bumpers Plastic Parking Bumpers Precast Concrete Parking Bumpers Rubber Parking Bumpers Wood Parking Bumpers Manufactured Traffic-Calming Devices Pavement Markings Painted Pavement Markings Raised Pavement Markings
32 17 00 32 17 13 32 17 13.13 32 17 13.16 32 17 13.19 32 17 13.23 32 17 13.26 32 17 16 32 17 23 32 17 23.13 32 17 23.23 32 17 23.33	Paving Specialties Parking Bumpers Metal Parking Bumpers Plastic Parking Bumpers Precast Concrete Parking Bumpers Rubber Parking Bumpers Wood Parking Bumpers Manufactured Traffic-Calming Devices Pavement Markings Painted Pavement Markings Raised Pavement Markings Plastic Pavement Markings
32 17 00 32 17 13 32 17 13.13 32 17 13.16 32 17 13.19 32 17 13.23 32 17 13.26 32 17 16 32 17 23 32 17 23.13 32 17 23.23 32 17 23.33 32 17 26	Paving Specialties Parking Bumpers Metal Parking Bumpers Plastic Parking Bumpers Precast Concrete Parking Bumpers Rubber Parking Bumpers Wood Parking Bumpers Manufactured Traffic-Calming Devices Pavement Markings Painted Pavement Markings Raised Pavement Markings Plastic Pavement Markings Tactile Warning Surfacing
32 17 00 32 17 13 32 17 13.13 32 17 13.16 32 17 13.19 32 17 13.23 32 17 13.26 32 17 16 32 17 23 32 17 23.13 32 17 23.23 32 17 23.33 32 17 26 32 17 29	Paving Specialties Parking Bumpers Metal Parking Bumpers Plastic Parking Bumpers Precast Concrete Parking Bumpers Rubber Parking Bumpers Wood Parking Bumpers Manufactured Traffic-Calming Devices Pavement Markings Painted Pavement Markings Raised Pavement Markings Plastic Pavement Markings Tactile Warning Surfacing Pavement Embedded Warning Lights
32 17 00 32 17 13 32 17 13.13 32 17 13.16 32 17 13.19 32 17 13.23 32 17 13.26 32 17 16 32 17 23 32 17 23.13 32 17 23.23 32 17 23.33 32 17 26 32 17 29 32 17 43	Paving Specialties Parking Bumpers Metal Parking Bumpers Plastic Parking Bumpers Precast Concrete Parking Bumpers Rubber Parking Bumpers Wood Parking Bumpers Manufactured Traffic-Calming Devices Pavement Markings Painted Pavement Markings Raised Pavement Markings Plastic Pavement Markings Tactile Warning Surfacing Pavement Embedded Warning Lights Pavement Snow Melting Systems
32 17 00 32 17 13 32 17 13.13 32 17 13.16 32 17 13.19 32 17 13.23 32 17 13.26 32 17 16 32 17 23 32 17 23.13 32 17 23.23 32 17 23.33 32 17 26 32 17 29 32 17 43 32 18 00	Paving Specialties Parking Bumpers Metal Parking Bumpers Plastic Parking Bumpers Precast Concrete Parking Bumpers Rubber Parking Bumpers Wood Parking Bumpers Manufactured Traffic-Calming Devices Pavement Markings Painted Pavement Markings Raised Pavement Markings Plastic Pavement Markings Tactile Warning Surfacing Pavement Embedded Warning Lights Pavement Snow Melting Systems Athletic and Recreational Surfacing
32 17 00 32 17 13 32 17 13.13 32 17 13.16 32 17 13.19 32 17 13.23 32 17 13.26 32 17 16 32 17 23 32 17 23.13 32 17 23.23 32 17 23.33 32 17 26 32 17 29 32 17 43 32 18 00 32 18 13	Paving Specialties Parking Bumpers Metal Parking Bumpers Plastic Parking Bumpers Precast Concrete Parking Bumpers Rubber Parking Bumpers Wood Parking Bumpers Manufactured Traffic-Calming Devices Pavement Markings Painted Pavement Markings Raised Pavement Markings Plastic Pavement Markings Tactile Warning Surfacing Pavement Embedded Warning Lights Pavement Snow Melting Systems Athletic and Recreational Surfacing Synthetic Grass Surfacing
32 17 00 32 17 13 32 17 13.13 32 17 13.16 32 17 13.19 32 17 13.23 32 17 13.26 32 17 16 32 17 23 32 17 23.13 32 17 23.23 32 17 23.33 32 17 26 32 17 29 32 17 43 32 18 00	Paving Specialties Parking Bumpers Metal Parking Bumpers Plastic Parking Bumpers Precast Concrete Parking Bumpers Rubber Parking Bumpers Wood Parking Bumpers Manufactured Traffic-Calming Devices Pavement Markings Painted Pavement Markings Raised Pavement Markings Plastic Pavement Markings Tactile Warning Surfacing Pavement Embedded Warning Lights Pavement Snow Melting Systems Athletic and Recreational Surfacing
32 17 00 32 17 13 32 17 13.13 32 17 13.16 32 17 13.19 32 17 13.23 32 17 13.26 32 17 16 32 17 23 32 17 23.13 32 17 23.23 32 17 23.33 32 17 26 32 17 29 32 17 43 32 18 00 32 18 13 32 18 16	Paving Specialties Parking Bumpers Metal Parking Bumpers Plastic Parking Bumpers Precast Concrete Parking Bumpers Rubber Parking Bumpers Wood Parking Bumpers Manufactured Traffic-Calming Devices Pavement Markings Painted Pavement Markings Raised Pavement Markings Plastic Pavement Markings Tactile Warning Surfacing Pavement Embedded Warning Lights Pavement Snow Melting Systems Athletic and Recreational Surfacing Synthetic Grass Surfacing Synthetic Resilient Surfacing
32 17 00 32 17 13 32 17 13.13 32 17 13.16 32 17 13.19 32 17 13.23 32 17 13.26 32 17 16 32 17 23 32 17 23.13 32 17 23.23 32 17 23.23 32 17 23.33 32 17 26 32 17 29 32 17 43 32 18 16 32 18 16 32 18 16.13 32 18 23 32 18 23.13	Paving Specialties Parking Bumpers Metal Parking Bumpers Plastic Parking Bumpers Precast Concrete Parking Bumpers Rubber Parking Bumpers Wood Parking Bumpers Wood Parking Bumpers Manufactured Traffic-Calming Devices Pavement Markings Painted Pavement Markings Raised Pavement Markings Plastic Pavement Markings Tactile Warning Surfacing Pavement Embedded Warning Lights Pavement Snow Melting Systems Athletic and Recreational Surfacing Synthetic Grass Surfacing Synthetic Resilient Surfacing Playground Protective Surfacing Athletic Surfacing Baseball Field Surfacing
32 17 00 32 17 13 32 17 13.13 32 17 13.16 32 17 13.19 32 17 13.23 32 17 13.26 32 17 16 32 17 23 32 17 23.13 32 17 23.23 32 17 23.33 32 17 26 32 17 29 32 17 43 32 18 16 32 18 16 32 18 16.13 32 18 23 32 18 23.13 32 18 23.16	Paving Specialties Parking Bumpers Metal Parking Bumpers Plastic Parking Bumpers Precast Concrete Parking Bumpers Rubber Parking Bumpers Wood Parking Bumpers Manufactured Traffic-Calming Devices Pavement Markings Painted Pavement Markings Painted Pavement Markings Plastic Pavement Markings Tactile Warning Surfacing Pavement Embedded Warning Lights Pavement Snow Melting Systems Athletic and Recreational Surfacing Synthetic Grass Surfacing Synthetic Resilient Surfacing Playground Protective Surfacing Athletic Surfacing Baseball Field Surfacing Natural Baseball Field Surfacing
32 17 00 32 17 13 32 17 13.13 32 17 13.16 32 17 13.19 32 17 13.23 32 17 13.26 32 17 16 32 17 23 32 17 23.13 32 17 23.23 32 17 23.33 32 17 23.33 32 17 26 32 17 29 32 17 43 32 18 13 32 18 16 32 18 13 32 18 23 32 18 23.13 32 18 23.13 32 18 23.16 32 18 23.19	Paving Specialties Parking Bumpers Metal Parking Bumpers Plastic Parking Bumpers Precast Concrete Parking Bumpers Rubber Parking Bumpers Wood Parking Bumpers Manufactured Traffic-Calming Devices Pavement Markings Painted Pavement Markings Painted Pavement Markings Plastic Pavement Markings Tactile Warning Surfacing Pavement Embedded Warning Lights Pavement Snow Melting Systems Athletic and Recreational Surfacing Synthetic Grass Surfacing Synthetic Resilient Surfacing Playground Protective Surfacing Athletic Surfacing Baseball Field Surfacing Natural Baseball Field Surfacing Synthetic Baseball Field Surfacing
32 17 00 32 17 13 32 17 13.13 32 17 13.16 32 17 13.19 32 17 13.23 32 17 13.26 32 17 16 32 17 23 32 17 23.13 32 17 23.23 32 17 23.33 32 17 26 32 17 29 32 17 43 32 18 16 32 18 16 32 18 16.13 32 18 23 32 18 23.13 32 18 23.16	Paving Specialties Parking Bumpers Metal Parking Bumpers Plastic Parking Bumpers Precast Concrete Parking Bumpers Rubber Parking Bumpers Wood Parking Bumpers Manufactured Traffic-Calming Devices Pavement Markings Painted Pavement Markings Painted Pavement Markings Plastic Pavement Markings Tactile Warning Surfacing Pavement Embedded Warning Lights Pavement Snow Melting Systems Athletic and Recreational Surfacing Synthetic Grass Surfacing Synthetic Resilient Surfacing Playground Protective Surfacing Athletic Surfacing Baseball Field Surfacing Natural Baseball Field Surfacing

32 18 23.29 32 18 23.33 32 18 23.36 32 18 23.39 32 18 23.43 32 18 23.53 32 18 23.56 32 18 23.59 32 18 23.63	Synthetic Field Sport Surfacing Running Track Surfacing Natural Running Track Surfacing Synthetic Running Track Surfacing Recreational Court Surfacing Tennis Court Surfacing Natural Tennis Court Surfacing Synthetic Tennis Court Surfacing Equestrian Surfacing
32 30 00	Site Improvements
32 31 00 32 31 11 32 31 13.23 32 31 13.26 32 31 13.29 32 31 13.53 32 31 13.53 32 31 16 32 31 17 32 31 19 32 31 19.53 32 31 23 32 31 26.11 32 31 26.13 32 31 29 32 31 32 32 31 53 32 31 53	Fences and Gates Gate Operators Chain Link Fences and Gates Recreational Court Fences and Gates Tennis Court Fences and Gates Tennis Court Wind Breaker Chain Link Backstops High-Security Chain Link Fences and Gates Welded Wire Fences and Gates Expanded Metal Fences and Gates Decorative Metal Fences and Gates Decorative Metal Security Fences and Gates Plastic Fences and Gates Wire Fences with Wood Posts Wire Fences with Steel Posts Wood Fences and Gates Composite Fences and Gates Cattle Guards
32 31 56 32 32 00	Wild Life Deterrent Fence Retaining Walls
32 32 13 32 32 16 32 32 19 32 32 23 32 32 23.13 32 32 23.16 32 32 26 32 32 29 32 32 34 32 32 36 32 32 43 32 32 53	Cast-in-Place Concrete Retaining Walls Precast Concrete Retaining Walls Unit Masonry Retaining Walls Segmental Retaining Walls Segmental Concrete Unit Masonry Retaining Walls Manufactured Modular Walls Metal Crib Retaining Walls Timber Retaining Walls Reinforced Soil Retaining Walls Gabion Retaining Walls Soldier-Beam Retaining Walls Stone Retaining Walls
32 33 00 32 33 13 32 33 14 32 33 23 32 33 33 32 33 43 32 33 43.13 32 33 43.53	Site Furnishings Site Bicycle Racks Site Bicycle Lockers Site Trash and Litter Receptacles Site Manufactured Planters Site Seating and Tables Site Seating Site Tables

32 92 26.13	Stolonizing
32 93 00	Plants
32 93 13	Ground Covers Plants and Bulbs
32 93 23 32 93 33	Shrubs
32 93 33 32 93 43	Trees
32 93 43 32 93 93	Exterior Artificial Plants
32 94 00	Planting Accessories
32 94 13	Landscape Edging
32 94 16	Landscape Timbers
32 94 19	Landscape Surfacing
32 94 33	Planters Tran Croton
32 94 43 32 94 46	Tree Grates
	Tree Grids
32 95 00	Exterior Planting Support Structures
32 96 00	Transplanting
32 96 13	Ground Cover Transplanting
32 96 23	Plant and Bulb Transplanting
32 96 33	Shrub Transplanting
32 96 43	Tree Transplanting
33 00 00	Utilities
33 01 00	Operation and Maintenance of Utilities
33 01 10	Operation and Maintenance of Water Utilities
33 01 10.51	Water Utility Intake Cleaning and Maintenance
33 01 10.52	Reservoir Maintenance
33 01 10.53	Flushing of Water Utility Piping
33 01 10.54	Cleaning of Water Utility Piping
33 01 10.54 33 01 10.56	Cleaning of Water Utility Piping Cleaning of Water Utility Storage Tanks
33 01 10.54 33 01 10.56 33 01 10.57	Cleaning of Water Utility Piping Cleaning of Water Utility Storage Tanks Disinfection of Water Supply Wells
33 01 10.54 33 01 10.56 33 01 10.57 33 01 10.58	Cleaning of Water Utility Piping Cleaning of Water Utility Storage Tanks Disinfection of Water Supply Wells Disinfection of Water Utility Piping Systems
33 01 10.54 33 01 10.56 33 01 10.57	Cleaning of Water Utility Piping Cleaning of Water Utility Storage Tanks Disinfection of Water Supply Wells
33 01 10.54 33 01 10.56 33 01 10.57 33 01 10.58 33 01 10.59	Cleaning of Water Utility Piping Cleaning of Water Utility Storage Tanks Disinfection of Water Supply Wells Disinfection of Water Utility Piping Systems Disinfection of Water Utility Storage Tanks Water Supply Well Abandonment Rehabilitation of Water Supply Wells
33 01 10.54 33 01 10.56 33 01 10.57 33 01 10.58 33 01 10.59 33 01 10.81 33 01 10.91 33 01 10.92	Cleaning of Water Utility Piping Cleaning of Water Utility Storage Tanks Disinfection of Water Supply Wells Disinfection of Water Utility Piping Systems Disinfection of Water Utility Storage Tanks Water Supply Well Abandonment Rehabilitation of Water Supply Wells Redevelopment of Water Supply Wells
33 01 10.54 33 01 10.56 33 01 10.57 33 01 10.58 33 01 10.59 33 01 10.81 33 01 10.91 33 01 10.92 33 01 12	Cleaning of Water Utility Piping Cleaning of Water Utility Storage Tanks Disinfection of Water Supply Wells Disinfection of Water Utility Piping Systems Disinfection of Water Utility Storage Tanks Water Supply Well Abandonment Rehabilitation of Water Supply Wells Redevelopment of Water Supply Wells Inspection and Testing of Water Utilities
33 01 10.54 33 01 10.56 33 01 10.57 33 01 10.58 33 01 10.59 33 01 10.81 33 01 10.91 33 01 10.92 33 01 12 33 01 12.11	Cleaning of Water Utility Piping Cleaning of Water Utility Storage Tanks Disinfection of Water Supply Wells Disinfection of Water Utility Piping Systems Disinfection of Water Utility Storage Tanks Water Supply Well Abandonment Rehabilitation of Water Supply Wells Redevelopment of Water Supply Wells Inspection and Testing of Water Utilities Leakage Detection
33 01 10.54 33 01 10.56 33 01 10.57 33 01 10.58 33 01 10.59 33 01 10.81 33 01 10.91 33 01 10.92 33 01 12 33 01 12.11 33 01 12.11	Cleaning of Water Utility Piping Cleaning of Water Utility Storage Tanks Disinfection of Water Supply Wells Disinfection of Water Utility Piping Systems Disinfection of Water Utility Storage Tanks Water Supply Well Abandonment Rehabilitation of Water Supply Wells Redevelopment of Water Supply Wells Inspection and Testing of Water Utilities Leakage Detection Electrical Continuity Testing
33 01 10.54 33 01 10.56 33 01 10.57 33 01 10.58 33 01 10.59 33 01 10.81 33 01 10.91 33 01 10.92 33 01 12 33 01 12.11 33 01 12.11 33 01 30	Cleaning of Water Utility Piping Cleaning of Water Utility Storage Tanks Disinfection of Water Supply Wells Disinfection of Water Utility Piping Systems Disinfection of Water Utility Storage Tanks Water Supply Well Abandonment Rehabilitation of Water Supply Wells Redevelopment of Water Supply Wells Inspection and Testing of Water Utilities Leakage Detection Electrical Continuity Testing Operation and Maintenance of Sewer Utilities
33 01 10.54 33 01 10.56 33 01 10.57 33 01 10.58 33 01 10.59 33 01 10.81 33 01 10.91 33 01 10.92 33 01 12 33 01 12.11 33 01 12.13 33 01 30 33 01 30.11	Cleaning of Water Utility Piping Cleaning of Water Utility Storage Tanks Disinfection of Water Supply Wells Disinfection of Water Utility Piping Systems Disinfection of Water Utility Storage Tanks Water Supply Well Abandonment Rehabilitation of Water Supply Wells Redevelopment of Water Supply Wells Inspection and Testing of Water Utilities Leakage Detection Electrical Continuity Testing Operation and Maintenance of Sewer Utilities Television Inspection of Sewers
33 01 10.54 33 01 10.56 33 01 10.57 33 01 10.58 33 01 10.59 33 01 10.81 33 01 10.91 33 01 10.92 33 01 12 33 01 12.11 33 01 12.11 33 01 30	Cleaning of Water Utility Piping Cleaning of Water Utility Storage Tanks Disinfection of Water Supply Wells Disinfection of Water Utility Piping Systems Disinfection of Water Utility Storage Tanks Water Supply Well Abandonment Rehabilitation of Water Supply Wells Redevelopment of Water Supply Wells Inspection and Testing of Water Utilities Leakage Detection Electrical Continuity Testing Operation and Maintenance of Sewer Utilities
33 01 10.54 33 01 10.56 33 01 10.57 33 01 10.58 33 01 10.59 33 01 10.81 33 01 10.91 33 01 10.92 33 01 12 33 01 12.11 33 01 12.13 33 01 30 33 01 30.11 33 01 30.11 33 01 30.13 33 01 30.16 33 01 30.23	Cleaning of Water Utility Piping Cleaning of Water Utility Storage Tanks Disinfection of Water Supply Wells Disinfection of Water Utility Piping Systems Disinfection of Water Utility Storage Tanks Water Supply Well Abandonment Rehabilitation of Water Supply Wells Redevelopment of Water Supply Wells Inspection and Testing of Water Utilities Leakage Detection Electrical Continuity Testing Operation and Maintenance of Sewer Utilities Television Inspection of Sewers Dye Testing of Sewers Smoke Testing Pipe Bursting
33 01 10.54 33 01 10.56 33 01 10.57 33 01 10.58 33 01 10.59 33 01 10.81 33 01 10.91 33 01 10.92 33 01 12 33 01 12.11 33 01 12.13 33 01 30.13 33 01 30.11 33 01 30.13 33 01 30.16 33 01 30.23 33 01 30.41	Cleaning of Water Utility Piping Cleaning of Water Utility Storage Tanks Disinfection of Water Supply Wells Disinfection of Water Utility Piping Systems Disinfection of Water Utility Storage Tanks Water Supply Well Abandonment Rehabilitation of Water Supply Wells Redevelopment of Water Supply Wells Inspection and Testing of Water Utilities Leakage Detection Electrical Continuity Testing Operation and Maintenance of Sewer Utilities Television Inspection of Sewers Dye Testing of Sewers Smoke Testing Pipe Bursting Cleaning of Sewers
33 01 10.54 33 01 10.56 33 01 10.57 33 01 10.58 33 01 10.59 33 01 10.81 33 01 10.91 33 01 10.92 33 01 12 33 01 12.11 33 01 12.11 33 01 30.13 33 01 30.11 33 01 30.13 33 01 30.23 33 01 30.41 33 01 30.42	Cleaning of Water Utility Piping Cleaning of Water Utility Storage Tanks Disinfection of Water Supply Wells Disinfection of Water Utility Piping Systems Disinfection of Water Utility Storage Tanks Water Supply Well Abandonment Rehabilitation of Water Supply Wells Redevelopment of Water Supply Wells Inspection and Testing of Water Utilities Leakage Detection Electrical Continuity Testing Operation and Maintenance of Sewer Utilities Television Inspection of Sewers Dye Testing of Sewers Smoke Testing Pipe Bursting Cleaning of Sewers Cleaning of Manholes
33 01 10.54 33 01 10.56 33 01 10.57 33 01 10.58 33 01 10.59 33 01 10.81 33 01 10.91 33 01 10.92 33 01 12 33 01 12.11 33 01 12.13 33 01 30 33 01 30.11 33 01 30.13 33 01 30.14 33 01 30.42 33 01 30.43	Cleaning of Water Utility Piping Cleaning of Water Utility Storage Tanks Disinfection of Water Supply Wells Disinfection of Water Utility Piping Systems Disinfection of Water Utility Storage Tanks Water Supply Well Abandonment Rehabilitation of Water Supply Wells Redevelopment of Water Supply Wells Inspection and Testing of Water Utilities Leakage Detection Electrical Continuity Testing Operation and Maintenance of Sewer Utilities Television Inspection of Sewers Dye Testing of Sewers Smoke Testing Pipe Bursting Cleaning of Sewers Cleaning of Manholes Removal of Protruding Service Connection
33 01 10.54 33 01 10.56 33 01 10.57 33 01 10.58 33 01 10.59 33 01 10.81 33 01 10.91 33 01 10.92 33 01 12 33 01 12.11 33 01 12.13 33 01 30 33 01 30.11 33 01 30.13 33 01 30.14 33 01 30.42 33 01 30.43 33 01 30.44 33 01 30.44	Cleaning of Water Utility Piping Cleaning of Water Utility Storage Tanks Disinfection of Water Supply Wells Disinfection of Water Utility Piping Systems Disinfection of Water Utility Storage Tanks Water Supply Well Abandonment Rehabilitation of Water Supply Wells Redevelopment of Water Supply Wells Inspection and Testing of Water Utilities Leakage Detection Electrical Continuity Testing Operation and Maintenance of Sewer Utilities Television Inspection of Sewers Dye Testing of Sewers Smoke Testing Pipe Bursting Cleaning of Sewers Cleaning of Manholes Removal of Protruding Service Connection Chemical Treatment of Roots in Sewer Lines
33 01 10.54 33 01 10.56 33 01 10.57 33 01 10.58 33 01 10.59 33 01 10.81 33 01 10.91 33 01 10.92 33 01 12 33 01 12.11 33 01 12.13 33 01 30 33 01 30.11 33 01 30.13 33 01 30.16 33 01 30.23 33 01 30.41 33 01 30.42 33 01 30.43 33 01 30.44 33 01 30.61	Cleaning of Water Utility Piping Cleaning of Water Utility Storage Tanks Disinfection of Water Supply Wells Disinfection of Water Utility Piping Systems Disinfection of Water Utility Storage Tanks Water Supply Well Abandonment Rehabilitation of Water Supply Wells Redevelopment of Water Supply Wells Inspection and Testing of Water Utilities Leakage Detection Electrical Continuity Testing Operation and Maintenance of Sewer Utilities Television Inspection of Sewers Dye Testing of Sewers Smoke Testing Pipe Bursting Cleaning of Sewers Cleaning of Manholes Removal of Protruding Service Connection Chemical Treatment of Roots in Sewer Lines Packer Injection Grouting
33 01 10.54 33 01 10.56 33 01 10.57 33 01 10.58 33 01 10.59 33 01 10.81 33 01 10.91 33 01 10.92 33 01 12.11 33 01 12.13 33 01 30.13 33 01 30.11 33 01 30.13 33 01 30.16 33 01 30.23 33 01 30.41 33 01 30.42 33 01 30.44 33 01 30.44 33 01 30.44 33 01 30.72	Cleaning of Water Utility Piping Cleaning of Water Utility Storage Tanks Disinfection of Water Supply Wells Disinfection of Water Utility Piping Systems Disinfection of Water Utility Storage Tanks Water Supply Well Abandonment Rehabilitation of Water Supply Wells Redevelopment of Water Supply Wells Inspection and Testing of Water Utilities Leakage Detection Electrical Continuity Testing Operation and Maintenance of Sewer Utilities Television Inspection of Sewers Dye Testing of Sewers Smoke Testing Pipe Bursting Cleaning of Sewers Cleaning of Manholes Removal of Protruding Service Connection Chemical Treatment of Roots in Sewer Lines Packer Injection Grouting Cured-in-place Pipe Lining
33 01 10.54 33 01 10.56 33 01 10.57 33 01 10.58 33 01 10.59 33 01 10.81 33 01 10.91 33 01 10.92 33 01 12 33 01 12.11 33 01 12.13 33 01 30 33 01 30.11 33 01 30.13 33 01 30.16 33 01 30.23 33 01 30.41 33 01 30.42 33 01 30.43 33 01 30.44 33 01 30.61	Cleaning of Water Utility Piping Cleaning of Water Utility Storage Tanks Disinfection of Water Supply Wells Disinfection of Water Utility Piping Systems Disinfection of Water Utility Storage Tanks Water Supply Well Abandonment Rehabilitation of Water Supply Wells Redevelopment of Water Supply Wells Inspection and Testing of Water Utilities Leakage Detection Electrical Continuity Testing Operation and Maintenance of Sewer Utilities Television Inspection of Sewers Dye Testing of Sewers Smoke Testing Pipe Bursting Cleaning of Sewers Cleaning of Manholes Removal of Protruding Service Connection Chemical Treatment of Roots in Sewer Lines Packer Injection Grouting

	33 01 30.79	Fold and Form Ding Lining
	33 01 30.81	Fold-and-Form Pipe Lining Manhole Rehabilitation
	33 01 30.82	Epoxy Lining for Concrete Manholes
	33 01 30.84	Manhole Inserts
	33 01 30.86	Manhole Rim Adjustment
	33 01 34	Operation and Maintenance of Onsite Wastewater Disposal Systems
		Septic Tank Solids Removal
	33 01 34.13 33 01 34.14	Septic Tank Solids Removal Septic Tank Maintenance
	33 01 34.19	Septic Tank Maintenance Septic Tank Abandonment
	33 01 34.33	Maintenance of Onsite Sand Filters
	33 01 50	Operation and Maintenance of Hydrocarbon Utilities
	33 01 50.53	Cleaning of Hydrocarbon Conveyance Piping
	33 01 50.56	Cleaning of Hydrocarbon Storage Tanks
	33 01 50.73	Relining of Hydrocarbon Conveyance Piping
	33 01 50.76	Relining of Steel Hydrocarbon Storage Tanks
	33 01 50.70	Hydrocarbon Well Abandonment
	33 01 50.91	Rehabilitation of Hydrocarbon Wells
	33 01 60	Operation and Maintenance of Hydronic and Steam Energy Utilities
	33 01 70	Operation and Maintenance of Electrical Utilities
	33 01 70.51	Electrical Utility Visual Inspection
	33 01 70.52	Electrical Utility Thermographic Surveys
	33 01 70.53	Electrical Utility Insulation Testing
	33 01 70.53	Electrical Utility Insulating Oil/Fluid Analysis
	33 01 80	Operation and Maintenance of Communications Utilities
	33 01 80.51	Communication Utility Visual Inspection
	33 01 80.52	Communication Utility Visual Inspection Communication Utility Thermographic Surveys
22		Common Work Results for Utilities
33	05 00	
	33 05 05	Buried Piping Installation
	33 05 05.11	Installing Bell-and-Spigot Joints
	33 05 05.13	Installing Push-on Joints
	33 05 05.15	Installing Butt-and-Strap Joints
	33 05 05.16	Installing Mechanical Joints
	33 05 05.18	Installing Restrained Joints
	33 05 05.19 33 05 05.31	Fusing Joints Hydrostatic Testing
	33 05 05.33	Infiltration and Exfiltration Testing
	33 05 05.36	Vacuum Testing
	33 05 05.41	Air Testing
	33 05 05.43	Mandrel Testing
	33 05 05.46	Lamp Testing
	33 05 07	Trenchless Installation of Utility Piping
	33 05 07.13	Utility Directional Drilling
	33 05 07.13	Utility Boring and Jacking
	33 05 07.24	Casing Piping for Utility Jacking
	33 05 07.33	Tunnelling
	33 05 07.36	Microtunnelling
	33 05 07.43	Utility Impact Moling
	33 05 07.53	Cable Trenching and Plowing
	33 05 09	Piping Specials for Utilities
	33 05 09.13	Couplings for Utility Piping
	33 05 09.23	Adapters for Utility Piping
	33 05 09.33	Thrust Restraint for Utility Piping
	33 05 09.43	Tappling Sleeves and Saddles for Utility Piping
	33 05 11	Aluminum Utility Pipe
	33 03 11	7 darman Canty 1 190

33 05 12	Brass Utility Pipe
33 05 16	Cast-Iron Utility Pipe
33 05 17	Copper Utility Pipe and Tubing
33 05 19	Ductile-Iron Utility Pipe
33 05 21	· ·
	High-Alloy Nickel Utility Pipe and Tubing
33 05 23	Stainless Steel Utility Pipe and Tubing
33 05 23.13	Duplex and Super-Duplex Stainless Steel Utility Pipe
33 05 23.23	300- and 400-Series Stainless Steel Utility Pipe
33 05 23.33	Special-Fabrication Stainless Steel Utility Pipe and Tubing
33 05 24	Steel Utility Pipe
33 05 24.13	Steel Pipe and Tubing for Air and Gas Service
33 05 24.23	Steel Pipe for Water Service
33 05 24.26	Steel Pipe and Tubing for Utility Liquid Service
33 05 24.33	Steel Pipe for Bulk Materials Conveyance
33 05 27	Corrugated Metal Utility Pipe
33 05 27.13	Corrugated Metal Culvert Pipe
33 05 27.23	Corrugated Metal Slotted Pipe
33 05 27.33	Corrugated Metal Culvert Arch Pipe
33 05 31	Thermoplastic Utility Pipe
33 05 31.11	Polyvinyl Chloride Gravity Sewer Pipe
33 05 31.13	Polyvinyl Chloride Pressure Pipe
33 05 31.16	Polyvinyl Chloride Pressure Pipe for Water Transmission and Distribution (AWWA
	C900 and AWWA C905)
33 05 31.19	Fusible Polyvinyl Chloride Pipe
33 05 31.21	Ribbed Polyvinyl Chloride Gravity Pipe
33 05 31.23	Dual-Wall Polyvinyl Chloride Profile Pipe
33 05 31.26	Polyvinyl Chloride Sleeve Pipe
33 05 31.27	Polyvinyl Chloride Perforated Drainage Pipe
33 05 31.29	Polyvinyl Chloride Electrical Duct
33 05 31.33	ABS Utility Pipe
33 05 33	Polyethylene Utility Pipe
33 05 33.13	Corrugated-Wall, Smooth Interior HDPE Gravity Pipe
33 05 33.23	Polyethylene Pressure Pipe and Tubing (AWWA C901 and AWWA C906)
33 05 33.33	Corrugated, Perforated HDPE Drainage Pipe
33 05 33.36	Corrugated, Non-Perforated HDPE Drainage Pipe
33 05 33.53	HDPE Gas Utility Pipe
33 05 33.56	Medium-Density Polyethylene Gas Utility Pipe
33 05 33.63	HDPE Communication Duct
33 05 36	Fiberglass-Reinforced Plastic Utility Pipe
33 05 36.13	Fiberglass-Reinforced Plastic Pipe for Utility Air, Gas, and Odor Service
33 05 36.23	Fiberglass-Reinforced Plastic Pipe for Utility Liquid Service
33 05 36.33	Fiberglass-Reinforced Plastic Pipe for Electrical Service
33 05 37	Centrifugally Cast Fiberglass-Reinforced Polymer Mortar Utility Pipe
33 05 39	Concrete Pipe
33 05 39.11	Concrete Pressure Pipe, Steel-Cylinder Type (AWWA C300)
33 05 39.13	Prestressed Concrete Pressure Pipe, Steel-Cylinder Type (AWWA C301)
33 05 39.16	Reinforced Concrete Pressure Pipe, Non-cylinder Type (AWWA C302)
33 05 39.17	Concrete Pressure Pipe, Bar-Wrapped Steel-Cylinder Type (AWWA C303)
33 05 39.23	Reinforced Concrete Low-Head Pressure Utility Pipe
33 05 39.33	Non-Reinforced Concrete Sewer and Culvert Pipe
33 05 39.36	Non-Reinforced Concrete Irrigation and Drainage Pipe
33 05 39.41	Reinforced Concrete Pipe for Sewers and Culverts
33 05 39.43	Perforated Concrete Utility Pipe
33 05 39.46	Reinforced Concrete Elliptical Pipe for Sewers and Culverts
33 05 39.49	Reinforced Concrete Box Sections for Sewers and Culverts

33 (33 05 39.63 33 05 39.69 33 05 41 33 05 43 33 05 46 33 05 61 33 05 63 33 05 66 33 05 69 33 05 71 33 05 73 33 05 76 33 05 77 33 05 77 33 05 81 33 05 83 33 05 93 33 05 97.13 33 05 97.13 33 05 97.13	Concrete Pipe Closures Concrete Pipe Thrust Restraints Concrete Pipe Wall Fittings Vitrified Clay Utility Pipe Ceramic Drainage Tile Asbestos Cement Utility Pipe Concrete Manholes Concrete Vaults and Chambers Concrete Distribution Chambers Concrete Trenchways Cleanouts Polyethylene Manholes Fiberglass Manholes Fiberglass Metering Manholes Metallic Castings for Utility Structures Non-Metallic Accessories for Utility Structures Common Motor Requirements for Utilities Vibration and Seismic Controls for Utilities Identification and Signage for Utilities Signage for Utility Identification Underground Utility Warning Tape Utility Identification Flags Schedules for Utilities
33 (06 00	Schedules for Utilities
	33 06 05 33 06 10	Schedules for Utility Piping Schedules for Water Utilities
	33 06 30	Schedules for Sanitray Sewerage Utiltiles
	33 06 40	Schedules for Stormwater Utilities
	33 06 40.13	Stormwater Drainage System Schedules
	33 06 50	Schedules for Hydrocarbon Utilities
	33 06 60	Schedules for Hydronic and Steam Energy Utilities
	33 06 70	Schedules for Electrical Utilities
	33 06 80	Schedules for Communications Utilities
33 (08 00	Commissioning of Utilities
	33 08 10	Commissioning of Water Utilities
	33 08 30	Commissioning of Sanitary Sewerage Utilities
	33 08 40	Commissioning of Stormwater Utilities
	33 08 50 33 08 60	Commissioning of Hydrocarbon Utilities Commissioning of Hydronic and Steam Energy Utilities
	33 08 70	Commissioning of Electrical Utilities
	33 08 80	Commissioning of Communications Utilities
33 (09 00	Instrumentation and Control for Utilities
	33 09 01	Utility Meter Registers
	33 09 01.13	Mechanical Registers
	33 09 01.23	Pulse Registers
	33 09 01.33	Encoder Registers Touch based Utility Mater Booding Equipment
	33 09 02	Touch-based Utility Meter Reading Equipment
	33 09 03 33 09 04	Handheld Radio Frequency Utility Meter Reading Equipment Mobile Radio Frequency Utility Meter Reading Equipment
	33 09 04	Fixed-Network Radio Frequency Utility Meter Reading Equipment
	33 09 06	Satellite Radio Frequency Utility Meter Reading Equipment
	00 00 00	Catomic Nacio i requertoy offinty Meter Neading Equipment

	33 09 07	Power Line Communication Utility Meter Reading Equipment
	33 09 08	Wireless Local Area Network Utility Meter Reading Equipment
	33 09 09	Meter Data Acquisition and Hosting Software
	33 09 10	Instrumentation and Control for Water Utilities
	33 09 30	Instrumentation and Control for Sanitary Sewerage Utilities
	33 09 40	Instrumentation and Control for Stormwater Utilities
	33 09 50	Instrumentation and Control for Hydrocarbon Utilities
	33 09 53	Leak Detection for Hydrocarbon Systems
	33 09 60	Instrumentation and Control for Hydronic and Steam Energy Utilities
	33 09 70	Instrumentation and Control for Electrical Utilities
	33 09 80	Instrumentation and Control for Communications Utilities
33	10 00	Water Utilities
33	11 00	Groundwater Sources
	33 11 11	Test Wells
	33 11 13	Potable Water Supply Wells
	33 11 16	Irrigation Wells
	33 11 19	Aquifer Recharging Wells
	33 11 33	Vertically Suspended Dry-Location Centrifugal Well Pumps
	33 11 36	Submersible Centrifugal Well Pumps
	33 11 39	Jet-Type Well Pumps
	33 11 53	Monitoring Wells
33	12 00	Surface Water Sources
	33 12 11	Intake Structure Systems
	33 12 13	Intake Cribs
	33 12 16	Intake Drop and Riser Shafts
	33 12 31	Reservoir Weight-tensioned, Defined Sump Floating Covers
	33 12 31.13	Reservoir Weight-tensioned, Defined Sump Polyethylene-reinforced Floating Covers
	33 12 31.23	Reservoir Weight-tensioned, Defined Sump Polypropylene-reinforced Floating
		Covers
	33 12 33	Reservoir Mechanically-tensioned Floating Covers
	33 12 33.13	Reservoir Mechanically-tensioned Polyethylene-reinforced Floating Covers
	33 12 33.23	Reservoir Mechanically-tensioned Polypropylene-reinforced Floating Covers
	33 12 36	Reservoir Short-term Floating Covers
	33 12 39	Reservoir Ball Floating Covers
	33 12 43	Floats for Reservoir Floating Covers
	33 12 46 33 12 53	Appurtenances for Reservoir Floating Covers Reservoir Flexible Baffle Curtains
22		
33	14 00	Water Utility Transmission and Distribution
	33 14 11	Water Utility Transmission Piping
	33 14 13 33 14 16	Public Water Utility Distribution Piping Site Water Utility Distribution Piping
	33 14 17	Site Water Utility Service Laterals
	33 14 17	Valves and Hydrants for Water Utility Service
	33 14 19	Enclosures for Water Utility Piping and Valves
	33 14 23.11	Heated, Insulated Aluminum Enclosures for Water Utility Piping and Valves
	33 14 23.13	Heated, Insulated Fiberglass Enclosures for Water Utility Piping and Valves
	33 14 23.16	Unheated, Insulated Aluminum Enclosures for Water Utility Piping and Valves
	33 14 23.17	Unheated, Insulated Fiberglass Enclosures for Water Utility Piping and Valves
	33 14 23.23	Fiberglass Artificial Rock Enclosures for Water Utility Piping and Valves

	33 14 23.26 33 14 23.33	Plastic Artificial Rock Enclosures for Water Utility Piping and Valves Enclosures for Water Utility Air Valves
	33 14 43	Packaged Pumping Systems for Water Utility Service
33 '	16 00	Water Utility Storage Tanks
•	33 16 11	Elevated Composite Water Storage Tanks
	33 16 13	Elevated Pillar-Type Steel Water Storage Tanks
	33 16 16	Multi-Column Elevated Steel Water Storage Tanks
	33 16 19	Elevated Spheroid Steel Water Storage Tanks
	33 16 23	Ground-Level Steel Water Storage Tanks
	33 16 31	Ground-Level AWWA D110 Type I Prestressed Concrete Water Storage Tanks
	33 16 32	Ground-Level AWWA D110 Type II Prestressed Concrete Water Storage Tanks
	33 16 33	Ground-Level AWWA D110 Type III Prestressed Concrete Water Storage Tanks
	33 16 36	Ground-Level Reinforced Concrete Water Storage Tanks
	33 16 53	Ground-Level Metal Water Storage Cisterns
	33 16 56	Ground-Level Plastic Water Storage Cisterns
	33 16 61	Underground Concrete Water Storage Cisterns
	33 16 63	Underground Non-Metallic Water Storage Cisterns
	33 16 66	Underground Plastic Modular Water Storage Cisterns
	33 16 93 33 16 96	Water Storage Tank Appurtageness
22.		Water Storage Tank Appurtenances
33	19 00	Water Utility Metering Equipment
	33 19 13 33 19 13.13	Positive Displacement Water Meters
	33 19 13.23	Oscillating Piston Water Meters Nutating Disc Water Meters
	33 19 16	Velocity-Type Water Meters
	33 19 16.13	Single-Jet Water Meters
	33 19 16.16	Multi-Jet Water Meters
	33 19 16.23	Turbine Water Meters
	33 19 16.26	Fire-Type Turbine Water Meters
	33 19 16.29 33 19 16.33	Portable Fire Hydrant-Type Turbine Water Meters Propeller Water Meters
	33 19 19	Compound Water Meters
	33 19 23	Magnetic Water Meters
	33 19 26	Ultrasonic Water Meters
	33 19 29	Pre-paid Water Meters
33	30 00	Sanitary Sewerage
33 3	31 00	Sanitary Sewerage Piping
	33 31 11	Public Sanitary Sewerage Gravity Piping
	33 31 13	Site Sanitary Sewerage Gravity Piping
	33 31 16	Site Sanitary Sewerage Gravity Service Laterals
	33 31 19	Small-Diameter Sanitary Sewerage Gravity Piping
	33 31 23	Sanitary Sewerage Force Main Piping
	33 31 26	Sanitary Pressure Sewer Piping
•	33 31 29	STEP System Piping
33 3	32 00	Sanitary Sewerage Equipment
	33 32 11	Field-Erected Wastewater Pumping Stations
	33 32 13	Packaged Wastewater Pumping Stations

	33 32 16	Packaged Wastewater Grinder Pump Assemblies
	33 32 19	Septic Tank Effluent Pumps
	33 32 26	Pneumatic Sewage Ejectors
	33 32 33	Wastewater Collection Vacuum Stations
	33 32 36	Pneumatic Wastewater Vacuum Valve Sumps
33 3	34 00	Onsite Wastewater Disposal
	33 34 13	Septic Tanks
	33 34 13.13	Concrete Septic Tanks
	33 34 13.23	Fiberglass Septic Tanks
	33 34 13.33	Polyethylene Septic Tanks
	33 34 16	Septic Tank Effluent Filters
	33 34 16.13	Septic Tank Gravity Effluent Filters
	33 34 16.16	Septic Tank Pressurized Effluent Filters
	33 34 19	Septic Tank Accessories
	33 34 23	Onsite Aerobic Equipment
	33 34 33	Onsite Intermittent Wastewater Filtration Systems
	33 34 36	Onsite Recirculating Wastewater Filtration Systems
	33 34 51	Drainage Field System
	33 34 53	Distribution Chambers
	33 34 53.13	Drainage Field Concrete Distribution Chambers
	33 34 53.23	Drainage Field Fiberglass Distribution Chambers
	33 34 53.33	Drainage Field Polyethylene Distribution Chambers
	33 34 56	Drainage Field Dosing Chambers
00.4	33 34 57	Drainage Field Infiltration Chambers
33 .	36 00	Wastewater Utility Storage Tanks
	33 36 23	Ground-Level Steel Wastewater Storage Tanks
	33 36 31	Ground-Level AWWA D110 Type I Prestressed Concrete Wastewater
		Storage Tanks
	33 36 32	Ground-Level AWWA D110 Type II Prestressed Concrete Wastewater
		Storage Tanks
	33 36 33	Ground-Level AWWA D110 Type III Prestressed Concrete Wastewater
	00 00 00	Storage Tanks
	33 36 36	Ground-Level Reinforced Concrete Wastewater Storage Tanks
	33 36 43	Underground Reinforced Concrete Wastewater Storage Tanks
	33 36 53	Wastewater Storage Tunnel Systems
33 :	37 00	Overflow Control
	33 37 13	Bending Weirs
	33 37 16	Spring-loaded Weirs
	33 37 23	Flow Regulators
	33 37 33	Swirl Concentrators
	33 37 36	Vortex-Type Hydrodynamic Separators
	33 37 43	Netting Systems
	33 37 46	End-of-Pipe In-water Storage Systems
33	40 00	Stormwater Utilities
	41 00	Subdrainage
00 -	33 41 13	Foundation Drainage
	33 41 13.13	Foundation Drainage Piping
	33 41 13.16	Geocomposite Foundation Drainage
	33 41 16	Subdrainage Piping
	33 41 16.16	Geocomposite Subdrainage

33 41 16.19 33 41 19 33 41 19.13 33 41 19.16 33 41 23 33 41 23.16 33 41 23.19 33 41 33 33 41 43	Pipe Underdrains Underslab Drainage Underslab Drainage Piping Geocomposite Underslab Drainage Drainage Layers Gravel Drainage Layers Geosynthetic Drainage Layers Retaining Wall Drainage Synthetic-Media French Drains
33 42 00	Stormwater Conveyance
33 42 11	Stormwater Gravity Piping
33 42 13	Stormwater Culverts
33 42 16	Stormwater Force Main Piping
33 42 23	Headwalls and Endwalls for Stormwater Piping
33 42 26 33 42 26.11	End Sections for Stormwater Piping
33 42 26.11	Aluminum End Sections for Stormwater Piping Steel End Sections for Stormwater Piping
33 42 26.16	Corrugated Metal End Sections for Stormwater Piping
33 42 26.23	Concrete End Sections for Stormwater Piping
33 42 31	Stormwater Area Drains and Inlets
33 42 33	Stormwater Curbside Drains and Inlets
33 42 36	Stormwater Trench Drains
33 42 41	Gratings and Frames for Stormwater Drainage Inlets
33 42 41.11	Aluminum Gratings and Frames for Stormwater Drainage inlets
33 42 41.21 33 42 41.31	Brass Gratings and Frames for Stormwater Drainage inlets Cast-Iron Gratings and Frames for Stormwater Drainage Inlets
33 42 41.41	Chrome Gratings and Frames for Stormwater Drainage inlets
33 42 41.51	Steel Gratings and Frames for Stormwater Drainage Inlets
33 42 41.61	Fiberglass Gratings and Frames for Stormwater Drainage Inlets
33 44 00	Stormwater Utility Equipment
33 44 11	Field-Erected Stormwater Pumping Stations
33 44 13	Packaged Stormwater Pumping Stations
33 44 21	Stormwater Downspout Filters
33 44 23	Inline Stormwater Filters
33 44 26	Stormwater Catch Basin Insert Filters
33 44 27	Stormwater Trench Drain Insert Filters
33 44 31	Stormwater Membrane Filtration Stormwater Trash and Debris Guards
33 44 33 33 44 36	Oil and Stormwater Separators
33 44 43	Vortex-Type Hydrodynamic Separators
33 44 53	Stormwater Area Drainage Pop-up Relief Valves
33 46 00	Stormwater Management
33 46 11	Stormwater Ponds
33 46 11.13	Stormwater Detention Ponds
33 46 11.23	Stormwater Retention Ponds
33 46 11.33	Fire Protection Ponds
33 46 11.43	Cooling Water Ponds
33 46 16	Outlet Structures for Stormwater Ponds
33 46 16.13	Stormwater Pond Concrete Outlet Structures
33 46 16.23 33 46 23	Stormwater Pond Fiberglass Outlet Structures Modular Buried Stormwater Storage Units
33 46 23	Modular Buried Stormwater Storage Units Rain Barrels
33 4 0 38	ו/מווז במוזכוס

	33 46 53	Stormwater Leaching Pits
	33 46 56	Tree Box Filters
	33 46 59	Concrete Modular Biofiltration Cells
	33 46 63	Swale Protection Prefilters
33	50 00	Hydrocarbon Utilities
33	51 00	Hydrocarbon Sources
	33 51 13	Appraisal Wells for Liquid Hydrocarbons
	33 51 16	Appraisal Wells for Gaseous Hydrocarbons
	33 51 23	Production Wells for Liquid Hydrocarbons
	33 51 26	Production Wells for Gaseous Hydrocarbons
	33 51 33	Liquid Injection Wells
	33 51 36	Gas Injection Wells
	33 51 39	Monitoring Wells
	33 51 53	Reciprocating Pumpjack
	33 51 56	Submersible Liquid Hydrocarbon Pumps
33	52 00	Hydrocarbon Transmission and Distribution
	33 52 13	Liquid Hydrocarbon Piping
	33 52 16	Gas Hydrocarbon Piping
	33 52 16.13	Steel Natural Gas Piping
	33 52 16.23	Medium Density Polyethylene Piping for Natural Gas
	33 52 16.26	High Density Polyethylene Piping for Natural Gas
	33 52 19	Hydrocarbon Piping Handling
	33 52 19.13	Hydrocarbon Piping Stringing, Storing, and Stacking
	33 52 23	Hydrocarbon Piping Welding
	33 52 23.13	Liquid Hydrocarbon Piping Welding
	33 52 23.16	Gas Hydrocarbon Piping Welding
	33 52 26 33 52 26.13	Hydrocarbon Piping Pigging Hydrocarbon Piping Pig Launchers
	33 52 26.16	Hydrocarbon Piping Pig Receivers
	33 52 26.23	Pigs for Hydrocarbon Piping
33	53 00	Hydrocarbon Utility Pressure Regulation
	33 53 13	Liquid Hydrocarbon Pressure Regulation
	33 53 16	Gas Hydrocarbon Pressure Regulation
33	54 00	Hydrocarbon Utility Safety Equipment
55	33 54 13	Liquid Hydrocarbon Leak Detection Equipment
	33 54 16	Gas Hydrocarbon Leak Detection Equipment
	33 54 23	Hydrocarbon Pipeline Venting
	33 54 23.13	Liquid Hydrocarbon Pipeline Venting
	33 54 23.16	Gas Hydrocarbon Pipeline Venting
33	56 00	Hydrocarbon Storage
	33 56 13	Aboveground Hydrocarbon Storage Tanks
	33 56 21	Ground-Level Fixed Roof Hydrocarbon Storage Tanks
	33 56 21.13	Double-Wall Ground-Level Fixed Roof Metallic Hydrocarbon Storage Tanks
	33 56 21.16	Single-Wall Ground-Level Fixed Roof Metallic Hydrocarbon Storage Tanks
	33 56 21.23	Single-Wall Ground-Level Fixed Roof Non-Metallic Hydrocarbon Storage Tanks
	33 56 21.26	Double-Wall Ground-Level Fixed Roof Non-Metallic Hydrocarbon Storage Tanks
	33 56 23	Ground-Level External Floating Roof Hydrocarbon Storage Tanks
	33 56 26	Ground-Level Internal Floating Roof Hydrocarbon Storage Tanks
	33 56 33	Underground Hydrocarbon Storage
	33 56 33 13	Double-Wall Metallic Underground Hydrocarbon Storage Tanks

	33 56 33.23	Single-Wall Metallic Underground Hydrocarbon Storage Tanks
	33 56 33.26	Single-Wall Non-Metallic Underground Hydrocarbon Storage Tanks
	33 56 33.29	Double-Wall Non-Metallic Underground Hydrocarbon Storage Tanks
	33 56 33.43	Underground Hydrocarbon Storage Caverns
	33 56 43	Aviation Fuel Storage Tanks
	33 56 43.13	Ground-Level Aviation Fuel Storage Tanks
	33 56 43.53	Underground Aviation Fuel Storage Tanks
	33 56 53	Compressed Gaseous Hydrocarbon Storage Tanks
	33 56 60	Moveable Hydrocarbon Storage Tanks
	33 56 93	Hydrocarbon Tank Linings
	33 56 96	Hydrocarbon Storage Tank Appurtenances
22		·
	57 00	Bulk Hydrocarbons Receiving/Dispensing Equipment
33	59 00	Hydrocarbon Utility Metering
	33 59 11	Diaphragm/Bellows Hydrocarbons Meters
	33 59 13	Hydrocarbons Rotary Meters
	33 59 16	Hydrocarbons Turbine Meters
	33 59 19	Hydrocarbons Orifice Meters
		· · · · · · · · · · · · · · · · · · ·
	33 59 23	Hydrocarbons Ultrasonic Flow Meters
	33 59 26	Hydrocarbons Coriolis Meters
	33 59 43	Liquid Hydrocarbon Sampling and Quality Analysis Instrumentation
	33 59 46	Gas Hydrocarbon Sampling and Quality Analysis Instrumentation
33	60 00	Hydronic and Steam Energy Utilities
33	61 00	Hydronic Energy Distribution
•	33 61 13	Buried Hydronic Energy Distribution
	33 61 23	Ground-Level Hydronic Energy Distribution
		•
	33 61 27	Prefabricated Energy Distribution
	33 61 29	Pre-Engineered, Field-Assembled Energy Distribution
	33 61 33	Hydronic Energy Distribution Metering
33	63 00	Steam Energy Distribution
	33 63 13	Underground Steam and Condensate Distribution Piping
	33 63 13.13	Shallow-Trench Steam Distribution Piping
	33 63 13.16	Utilidor Steam Distribution Piping
	33 63 23	Ground-Level Steam and Condensate Distribution Piping
	33 63 33	Steam Energy Distribution Metering
33	370 00	Electrical Utilities
33	71 00	Electrical Utility Transmission and Distribution
	33 71 13	Electrical Utility Towers
	33 71 13.13	Precast Concrete Electrical Utility Towers
	33 71 13.23	Steel Electrical Utility Towers
	33 71 13.33	Wood Electrical Utility Towers
	33 71 16	Electrical Poles
	33 71 16.13	Precast Concrete Electrical Utility Poles
	33 71 16.23	Steel Electrical Utility Poles
	33 71 16.33	Wood Electrical Utility Poles
	33 71 19	Electrical Underground Ducts, Ductbanks, and Manholes
	33 71 19.13	Electrical Manholes and Handholes
	33 71 19.23	Trenched Electrical Underground Duct and Ductbanks
	33 71 19.33	Trenchless Electrical Underground Duct and Ductbanks
	33 71 23	Insulators and Fittings
	33 71 23.13	Suspension Insulators
	55 25.10	- appondint modulators

	33 71 23.16	Post Insulators
	33 71 23.23	Potheads
	33 71 26	Transmission and Distribution Equipment
	33 71 26.13	Capacitor Banks
	33 71 26.16	Coupling Capacitors
	33 71 26.23	Current Transformers
	33 71 26.26	Potential Transformers
	33 71 36	Extra-High-Voltage Transmission Wiring
	33 71 36.13	Overhead Extra-High-Voltage Transmission Wiring
	33 71 39	High-Voltage Transmission Wiring
	33 71 39.13	Overhead High-Voltage Transmission Wiring
	33 71 39.23	Underground High-Voltage Transmission Wiring
	33 71 39.33	Underwater High-Voltage Transmission Wiring
	33 71 49	Medium-Voltage Transmission Wiring
	33 71 49.13	Overhead Medium-Voltage Transmission Wiring
	33 71 49.23	Underground Medium-Voltage Transmission Wiring
	33 71 49.33	Underwater Medium-Voltage Transmission Wiring
	33 71 53	Direct-Current Transmission
	33 71 73	Electrical Utility Services
	33 71 83	Transmission and Distribution Specialties
33	72 00	Utility Substations
	33 72 13	Deadend Structures
	33 72 23	Structural Bus Supports
	33 72 23.13	Bus Support Insulators
	33 72 26	Substation Bus Assemblies
	33 72 26.13	Aluminum Substation Bus Assemblies
	33 72 26.16	Copper Substation Bus Assemblies
	33 72 33	Control House Equipment
	33 72 33.13	Relays
	33 72 33.16	Substation Control Panels
	33 72 33.23	Power-Line Carriers
	33 72 33.26	Substation Metering
	33 72 33.43	Substation DC Supply
	33 72 43	Substation Control Wiring
	33 72 53	Shunt Reactors
	33 72 63	Substation Disconnect Switches
	33 72 63.13	Vertical Break Disconnect Switches
	33 72 63.16	Double End Break Disconnect Switches
	33 72 63.19	Double End Break "Vee" Disconnect Switches
	33 72 63.21	Center Break Disconnect Switches
	33 72 63.23	Center Break "Vee" Disconnect Switches
	33 72 63.26	Single Side Break Disconnect Switches
	33 72 63.27	Vertical Reach Disconnect Switches Crounding for Substation Disconnect Switches
	33 72 63.29 33 72 63.31	Grounding for Substation Disconnect Switches Hook Sticks
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33	73 00	Utility Transformers
	33 73 13	Liquid-Filled Utility Transformers
	33 73 23	Dry-Type Utility Transformers
33	74 00	Extra High Voltage (EHV) Switchgear and protection
		devices
	22 74 42	
	33 74 13	Air EHV Circuit Breaker
	33 74 16	Oil EHV Circuit Breaker

	33 74 19	Gas EHV Circuit Breaker
	33 74 30	EHV Disconnect switch
	33 74 36	EHV Utility Fuses
	33 74 39	EHV Surge Arresters
	33 74 40	EHV Rod Gap
	33 74 43	EVH Shunt Reactors
	33 74 43.13	EHV Shunt Reactor Banks
	33 74 43.16	EHV Current Limiting Reactors
33	75 00	High-Voltage Switchgear and Protection Devices
	33 75 13	Air High-Voltage Circuit Breaker
	33 75 16	Oil High-Voltage Circuit Breaker
	33 75 19	Gas High-Voltage Circuit Breaker
	33 75 23	Vacuum High-Voltage Circuit Breaker
	33 75 30	High-Voltage Disconnect Switch
	33 75 36	High-Voltage Utility Fuses
	33 75 39	High-Voltage Surge Arresters
	33 75 40	High-Voltage Rod Gap
33	77 00	Medium-Voltage Utility Switchgear and Protection
		Devices
	33 77 13	Air Medium-Voltage Circuit Breaker
	33 77 16	Oil Medium-Voltage Circuit Breaker
	33 77 19	Gas Medium-Voltage Circuit Breaker
	33 77 23	Vacuum Medium-Voltage Circuit Breaker
	33 77 26	Medium-Voltage Utility Fusible Interrupter Switchgear
	33 77 30	Medium-Voltage Disconnect Switch
	33 77 33	Medium-Voltage Utility Cutouts
	33 77 36	Medium-Voltage Utility Fuses
	33 77 39	Medium-Voltage Utility Surge Arresters
	33 77 40	Medium-Voltage Rod Gap
	33 77 53	Medium-Voltage Utility Reclosers
33	78 00	Substation Converter Stations
33	79 00	Site Grounding
	33 79 13	Site Improvement Grounding
	33 79 13.13	Fence Grounding
	33 79 16	Tower Grounding
	33 79 16.13	Communications Tower Grounding
	33 79 16.16	Antenna Tower Grounding
	33 79 19	Utilities Grounding
	33 79 19.13	Electrical Utilities Grounding
	33 79 19.16	Communications Utilities Grounding
	33 79 23	Utility Substation Grounding
	33 79 83	Site Grounding Conductors
	33 79 93	Site Lightning Protection
	33 79 93.13	Lightning Arrestors
	33 79 93.16 33 79 93.19	Lightning Strike Counters Lightning Strike Warning Devices
22		
	80 00	Communications Utilities
33	81 00	Communications Structures
	33 81 13	Monopole Communications Towers

	33 81 16	Lattice Communications Towers
	33 81 19	Guyed Communications Towers
	33 81 21	Concealed Communications Towers
	33 81 23	Broadcast Communications Towers
	33 81 27	Aerial Cable Installation Hardware
	33 81 29	Communications Vaults, Pedestals, and Enclosures
	33 81 63 33 81 63.16	Cell Site Shelter Equipment DC Rectifiers
	33 81 63.19	Backup Batteries
	33 81 63.23	Baseband Microwave Processing
	33 81 63.26	Base Station Transceivers
	33 81 63.43	Remote Monitoring
33	82 00	Communications Transmission and Distribution
	33 82 13	Copper Communications Transmission and Distribution Cabling
	33 82 13.13	Copper Splicing and Terminations
	33 82 23	Optical Fiber Communications Transmission and Distribution Cabling
	33 82 23.13	Optical Fiber Splicing and Terminations
	33 82 33 33 82 33.13	Coaxial Communications Transmission and Distribution Cabling Coaxial Splicing and Terminations
	33 82 43	Grounding and Bonding for Communications Transmission and Distribution
	33 82 46	Cable Pressurization Equipment
	33 82 53	Cleaning, Lubrication, and Restoration Chemicals
	33 82 63	Shelter Equipment
	33 82 63.13	Transceivers
	33 82 63.16	Control Panels
	33 82 63.23	Power-Line Carriers
22	33 82 63.43	Backup Batteries
33	83 00	Wireless Communications Transmission and
		Distribution
	33 83 13	Laser Transmitters and Receivers
	33 83 16	Microwave Transmitters and Receivers
	33 83 17	Microwave Antennas
	33 83 17.13 33 83 19	Microwave Waveguides Infrared Transmitters and Receivers
	33 83 23	Radio Antennas
2		
34	1 00 00	Transportation
34	01 00	Operation and Maintenance of Transportation
	34 01 13	Operation and Maintenance of Roadways
	34 01 23	Operation and Maintenance of Railways
	34 01 23.13	Track Removal and Salvage
	34 01 23.81	Track Crosstie Replacement
	34 01 33	Operation and Maintenance of Airfields
~ 4	34 01 43	Operation and Maintenance of Bridges
34	05 00	Common Work Results for Transportation
	34 05 05	Selective Demolition for Transportation
	34 05 13	Common Work Results for Roadways
	34 05 23 34 05 33	Common Work Results for Railways Common Work Results for Airports
	34 05 43	Common Work Results for Bridges
3/	06 00	Schedules for Transportation
	50 00	COLLEGUES FOL LIGHTSDOLIGHT

34 06 13	Schedules for Roadways
34 06 23	Schedules for Railways
34 06 33 34 06 43	Schedules for Airfields
	Schedules for Bridges
34 08 00	Commissioning of Transportation
34 08 13	Commissioning of Roadways
34 08 23 34 08 33	Commissioning of Railways
34 08 43	Commissioning of Airfields Commissioning of Bridges
34 10 00	Guideways/Railways
34 11 00	Rail Tracks
34 11 13	Track Rails
34 11 13.13	Light Rail Track
34 11 13.23	Heavy Rail Track
34 11 16 34 11 16.13	Welded Track Rails In-Track Butt-Welded Track Rail
34 11 16.13	Pressure-Welded Track Rail
34 11 16.19	Thermite-Welded Track Rail
34 11 19	Track Rail Joints
34 11 23	Special Trackwork
34 11 23.13	Ballasted Special Track Rail
34 11 23.16	Direct-Fixation Track
34 11 23.23	Running Rail
34 11 23.26	Precurved Running Rail
34 11 26	Ballasted Track Rail
34 11 26.13	Track Rail Ballast
34 11 26.16	Track Rail Subballast
34 11 29 34 11 33	Embedded Track Rail Track Cross Ties
34 11 33.13	Concrete Track Cross Ties
34 11 33.16	Timber Track Cross Ties
34 11 33.19	Resilient Track Cross Ties
34 11 36	Track Rail Fasteners
34 11 36.13	Direct-Fixation Fasteners
34 11 39	Track Collector Pans
34 11 39.13	Fiberglass Track Collector Pans
34 11 93	Track Appurtenances and Accessories
34 12 00	Monorails
34 12 13	Elevated Monorails
34 12 16	On-Grade Monorails
34 12 19	Below-Grade Monorails
34 12 23	Maglev Monorail
34 12 63	Monorail Track
34 13 00	Funiculars
34 13 13	Inclined Railway
34 14 00	Cable Transportation
34 14 13	Aerial Tramways
34 14 19	Gondolas
34 14 26	Funitels
34 14 33	Chairlifts

	34 14 39	Surface Lifts
	34 14 46	Ropeway Tows
	34 14 53	Cable Car Systems
34	20 00	Traction Power
34 2	21 00	Traction Power Distribution
	34 21 13	High Power Static Frequency Converters
	34 21 16	Traction Power Substations
	34 21 16.13	AC Traction Power Substations
	34 21 16.16	DC Traction Power Substations
	34 21 19	Traction Power Switchgear
	34 21 19.13	AC Traction Power Switchgear
	34 21 19.16	DC Traction Power Switchgear
	34 21 19.23	Frequency Changer Traction Dower Transformer Bootifier Units
244	34 21 23	Traction Power Transformer-Rectifier Units
34 4	23 00	Overhead Traction Power
	34 23 13	Traction Power Poles
	34 23 16	Overhead Cable Suspension
	34 23 23	Overhead Traction Power Cables
34 2	24 00	Third Rail Traction Power
	34 24 13	Bottom-Contact Third Rail
	34 24 16	Side-Contact Third Rail
	34 24 19	Top-Contact Third Rail
34	40 00	Transportation Signaling and Contro
		Equipment
24		
34 4	41 00	Roadway Signaling and Control Equipment
34 4	41 00 34 41 13	Roadway Signaling and Control Equipment Traffic Signals
34 4		
34 4	34 41 13	Traffic Signals
34 4	34 41 13 34 41 16	Traffic Signals Traffic Control Equipment
	34 41 13 34 41 16 34 41 23	Traffic Signals Traffic Control Equipment Roadway Monitoring Equipment In Roadway Warning Lights
	34 41 13 34 41 16 34 41 23 34 41 33	Traffic Signals Traffic Control Equipment Roadway Monitoring Equipment In Roadway Warning Lights Railway Signaling and Control Equipment
	34 41 13 34 41 16 34 41 23 34 41 33 42 00	Traffic Signals Traffic Control Equipment Roadway Monitoring Equipment In Roadway Warning Lights
	34 41 13 34 41 16 34 41 23 34 41 33 42 00 34 42 13 34 42 13.13 34 42 13.16	Traffic Signals Traffic Control Equipment Roadway Monitoring Equipment In Roadway Warning Lights Railway Signaling and Control Equipment Railway Signals General Railway Signal Requirements Signal Solid State Coded Track Circuits
	34 41 13 34 41 16 34 41 23 34 41 33 42 00 34 42 13 34 42 13.13 34 42 13.16 34 42 16	Traffic Signals Traffic Control Equipment Roadway Monitoring Equipment In Roadway Warning Lights Railway Signaling and Control Equipment Railway Signals General Railway Signal Requirements Signal Solid State Coded Track Circuits Train Control Wires and Cables
	34 41 13 34 41 16 34 41 23 34 41 33 42 00 34 42 13 34 42 13.13 34 42 13.16 34 42 16 34 42 19	Traffic Signals Traffic Control Equipment Roadway Monitoring Equipment In Roadway Warning Lights Railway Signaling and Control Equipment Railway Signals General Railway Signal Requirements Signal Solid State Coded Track Circuits Train Control Wires and Cables Vital Interlocking Logic Controllers
	34 41 13 34 41 16 34 41 23 34 41 33 42 00 34 42 13 34 42 13.16 34 42 16 34 42 19 34 42 23	Traffic Signals Traffic Control Equipment Roadway Monitoring Equipment In Roadway Warning Lights Railway Signaling and Control Equipment Railway Signals General Railway Signal Requirements Signal Solid State Coded Track Circuits Train Control Wires and Cables Vital Interlocking Logic Controllers Railway Control Equipment
	34 41 13 34 41 16 34 41 23 34 41 33 42 00 34 42 13 34 42 13.16 34 42 16 34 42 19 34 42 23 34 42 23.13	Traffic Signals Traffic Control Equipment Roadway Monitoring Equipment In Roadway Warning Lights Railway Signaling and Control Equipment Railway Signals General Railway Signal Requirements Signal Solid State Coded Track Circuits Train Control Wires and Cables Vital Interlocking Logic Controllers Railway Control Equipment Mainline Train Control Room Equipment
	34 41 13 34 41 16 34 41 23 34 41 33 42 00 34 42 13 34 42 13.16 34 42 16 34 42 19 34 42 23 34 42 23.13 34 42 23.13	Traffic Signals Traffic Control Equipment Roadway Monitoring Equipment In Roadway Warning Lights Railway Signaling and Control Equipment Railway Signals General Railway Signal Requirements Signal Solid State Coded Track Circuits Train Control Wires and Cables Vital Interlocking Logic Controllers Railway Control Equipment Mainline Train Control Room Equipment Yard Train Control Room Equipment
	34 41 13 34 41 16 34 41 23 34 41 33 42 00 34 42 13.13 34 42 13.16 34 42 16 34 42 19 34 42 23 34 42 23.13 34 42 23.16 34 42 23.19	Traffic Signals Traffic Control Equipment Roadway Monitoring Equipment In Roadway Warning Lights Railway Signaling and Control Equipment Railway Signals General Railway Signal Requirements Signal Solid State Coded Track Circuits Train Control Wires and Cables Vital Interlocking Logic Controllers Railway Control Equipment Mainline Train Control Room Equipment Yard Train Control Room Equipment Integrated Control Equipment
	34 41 13 34 41 16 34 41 23 34 41 33 42 00 34 42 13.13 34 42 13.16 34 42 16 34 42 19 34 42 23 34 42 23.13 34 42 23.16 34 42 23.19 34 42 23.23	Traffic Signals Traffic Control Equipment Roadway Monitoring Equipment In Roadway Warning Lights Railway Signaling and Control Equipment Railway Signals General Railway Signal Requirements Signal Solid State Coded Track Circuits Train Control Wires and Cables Vital Interlocking Logic Controllers Railway Control Equipment Mainline Train Control Room Equipment Yard Train Control Room Equipment Integrated Control Equipment Interlocking Railway Control Equipment
	34 41 13 34 41 16 34 41 23 34 41 33 42 00 34 42 13 34 42 13.16 34 42 16 34 42 19 34 42 23 34 42 23.13 34 42 23.16 34 42 23.19 34 42 23.23 34 42 23.23 34 42 23.23	Traffic Signals Traffic Control Equipment Roadway Monitoring Equipment In Roadway Warning Lights Railway Signaling and Control Equipment Railway Signals General Railway Signal Requirements Signal Solid State Coded Track Circuits Train Control Wires and Cables Vital Interlocking Logic Controllers Railway Control Equipment Mainline Train Control Room Equipment Yard Train Control Room Equipment Integrated Control Equipment Interlocking Railway Control Equipment Rail Network Equipment
	34 41 13 34 41 16 34 41 23 34 41 33 42 00 34 42 13.13 34 42 13.16 34 42 16 34 42 19 34 42 23 34 42 23.13 34 42 23.16 34 42 23.19 34 42 23.23	Traffic Signals Traffic Control Equipment Roadway Monitoring Equipment In Roadway Warning Lights Railway Signaling and Control Equipment Railway Signals General Railway Signal Requirements Signal Solid State Coded Track Circuits Train Control Wires and Cables Vital Interlocking Logic Controllers Railway Control Equipment Mainline Train Control Room Equipment Yard Train Control Room Equipment Integrated Control Equipment Integrated Control Equipment Rail Network Equipment Station Agent Equipment
	34 41 13 34 41 16 34 41 23 34 41 33 42 00 34 42 13 34 42 13.16 34 42 16 34 42 19 34 42 23 34 42 23.13 34 42 23.16 34 42 23.19 34 42 23.23 34 42 23.23 34 42 23.23	Traffic Signals Traffic Control Equipment Roadway Monitoring Equipment In Roadway Warning Lights Railway Signaling and Control Equipment Railway Signals General Railway Signal Requirements Signal Solid State Coded Track Circuits Train Control Wires and Cables Vital Interlocking Logic Controllers Railway Control Equipment Mainline Train Control Room Equipment Yard Train Control Room Equipment Integrated Control Equipment Interlocking Railway Control Equipment Rail Network Equipment
34 4	34 41 13 34 41 16 34 41 23 34 41 33 42 00 34 42 13 34 42 13.16 34 42 16 34 42 19 34 42 23 34 42 23.13 34 42 23.16 34 42 23.19 34 42 23.23 34 42 23.23 34 42 23.23 34 42 23.33	Traffic Signals Traffic Control Equipment Roadway Monitoring Equipment In Roadway Warning Lights Railway Signaling and Control Equipment Railway Signals General Railway Signal Requirements Signal Solid State Coded Track Circuits Train Control Wires and Cables Vital Interlocking Logic Controllers Railway Control Equipment Mainline Train Control Room Equipment Yard Train Control Room Equipment Integrated Control Equipment Interlocking Railway Control Equipment Rail Network Equipment Station Agent Equipment Yard Management Equipment Supervisory Control and Data Acquisition
34 4	34 41 13 34 41 16 34 41 23 34 41 33 42 00 34 42 13 34 42 13.16 34 42 16 34 42 19 34 42 23 34 42 23.13 34 42 23.16 34 42 23.23 34 42 23.23 34 42 23.23 34 42 23.23 34 42 26 34 42 29 34 42 33 34 42 36 43 00	Traffic Signals Traffic Control Equipment Roadway Monitoring Equipment In Roadway Warning Lights Railway Signaling and Control Equipment Railway Signals General Railway Signal Requirements Signal Solid State Coded Track Circuits Train Control Wires and Cables Vital Interlocking Logic Controllers Railway Control Equipment Mainline Train Control Room Equipment Yard Train Control Room Equipment Integrated Control Equipment Interlocking Railway Control Equipment Rail Network Equipment Station Agent Equipment Yard Management Equipment Supervisory Control and Data Acquisition Airfield Signaling and Control Equipment
34 4	34 41 13 34 41 16 34 41 23 34 41 33 42 00 34 42 13 34 42 13.16 34 42 16 34 42 19 34 42 23 34 42 23.13 34 42 23.16 34 42 23.19 34 42 23.23 34 42 23.23 34 42 23.3 34 42 23.3	Traffic Signals Traffic Control Equipment Roadway Monitoring Equipment In Roadway Warning Lights Railway Signaling and Control Equipment Railway Signals General Railway Signal Requirements Signal Solid State Coded Track Circuits Train Control Wires and Cables Vital Interlocking Logic Controllers Railway Control Equipment Mainline Train Control Room Equipment Yard Train Control Room Equipment Integrated Control Equipment Interlocking Railway Control Equipment Rail Network Equipment Station Agent Equipment Yard Management Equipment Supervisory Control and Data Acquisition

	34 43 13.11	Airport Beacon Towers
	34 43 13.12	Airport Obstruction Lights
	34 43 13.13	Airfield Runway Identification Lights
	34 43 13.16	Airfield Runway and Taxiway Inset Lighting
	34 43 13.19	Adhesive for Inset Lighting & Wiring
	34 43 13.23	Airfield Short-Approach Lighting Equipment
	34 43 13.26	Airfield Omni-Directional-Approach Lighting Equipment
	34 43 13.29	Airfield Low-Intensity-Approach Lighting Equipment
	34 43 13.33	Airfield High-Intensity-Approach Lighting Equipment
	34 43 13.36	Airfield Precision-Approach Path Indicator Equipment
	34 43 16	Airfield Landing Equipment
	34 43 16.13	Microwave Airfield Landing Equipment
	34 43 16.16	Instrument Airfield Landing Equipment
	34 43 16.19	Airfield Visual-Approach Slope Indicator Equipment
	34 43 19	Airfield Traffic Control Tower Equipment
	34 43 23	Weather Observation Equipment
	34 43 23.13	Automatic Weather Observation Equipment
	34 43 23.16	Airfield Wind Cones
	34 43 26	Airfield Control Equipment
	34 43 26.13	Airfield Lighting Control Equipment
	34 43 26.16	Airfield Lighting PLC Control Equipment
	34 43 26.19	Airfield Lighting Regulator Assembly
34	48 00	Bridge Signaling and Control Equipment
	34 48 13	Operating Bridge Signals
	34 48 16	Operating Bridge Control Equipment
24	<u> </u>	
	50 00	Transportation Fare Collection Equipment
34	52 00	Vehicle Fare Collection
	34 52 16	Vehicle Ticketing Equipment
	34 52 16.13	Vehicle Ticket Vending Machines
	34 52 26	Vehicle Fare Collection Equipment
	34 52 26.13	Vehicle Coin Fare Collection Equipment
	34 52 26.16	Vehicle Electronic Fare Collection Equipment
	34 52 33	Vehicle Fare Gates
34	54 00	Passenger Fare Collection
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	34 54 16	Passenger Ticketing Equipment
	34 54 16.13 34 54 16.16	Passenger Ticket Vending Machines Passenger Addfare Machines
	34 54 16.23	Passenger Intermodal Transfer Machines
	34 54 26	Passenger Fare Collection Equipment
	34 54 26.13	Passenger Coin Fare Collection Equipment
	34 54 26.16	Passenger Electronic Fare Collection Equipment
	34 54 33	Passenger Fare Gates
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34	70 00	Transportation Construction and
		Equipment
34	71 00	Roadway Construction
		Vehicle Barriers
	34 /1 13	
	34 71 13 34 71 13 13	
	34 71 13.13	Vehicle Median Barriers
	34 71 13.13 34 71 13.16	Vehicle Median Barriers Vehicle Crash Barriers
	34 71 13.13	Vehicle Median Barriers

34 71 16	Impact Attenuating Devices
34 71 19	Vehicle Delineators
34 71 19.13	Fixed Vehicle Delineators
34 71 19.16	Flexible Vehicle Delineators
34 72 00	Railway Construction
34 72 13	Railway Line
34 72 16	Railway Siding
34 73 00	Airfield Construction
34 73 13	Aircraft Tiedowns
34 73 16	Airfield Grounding
34 73 16.13	Aircraft Static Grounding Jet Blast Barriers
34 73 19 34 73 23	Manufactured Airfield Control Towers
34 73 26	Manufactured Helipads
34 75 00	Roadway Equipment
34 75 13	Operable Roadway Equipment
34 75 13.13	Active Vehicle Barriers
34 76 00	Railway Equipment
34 76 13	Roadway Crossing Control Equipment
34 77 00	Transportation Equipment
34 77 13	Passenger Boarding Bridges
34 77 13.13	Fixed Aircraft Passenger Boarding Bridges
34 77 13.16	Movable Aircraft Passenger Boarding Bridges
34 77 13.23	Ship Passenger Boarding Bridges
34 77 33	Baggage Scanning Equipment
34 77 36 34 77 39	Baggage Scales Baggage Conveying Equipment
	Baggage Conveying Equipment
34 78 00	Weighing Equipment
34 78 13 34 78 16	Truck Scales Weighbridges
34 78 23	Railroad Car Scales
34 78 33	Crane Scales
34 80 00	
	Bridges
34 81 00	Bridge Machinery
34 81 13	Single-Swing Bridge Machinery
34 81 16	Double-Swing Bridge Machinery
34 81 19 34 81 23	Cantilever Bridge Machinery Lift Bridge Machinery
34 81 26	Sliding Bridge Machinery
34 81 29	Pontoon Bridge Machinery
34 81 32	Bascule Bridge Machinery
34 82 00	Bridge Specialties
34 82 13	Bridge Vibration Dampers
34 82 13.13	Visco Elastic Bridge Vibration Dampers
34 82 13.16	Tuned-Mass Bridge Vibration Dampers
34 82 19	Bridge Pier Protection
34 82 19.13	Bridge Pier Ice Shields
35 00 00	Waterway and Marine Construction

35 01 00	Operation and Maintenance of Waterway and Marine
	Construction
35 01 30	Operation and Maintenance of Coastal Construction
35 01 40	Operation and Maintenance of Waterway Construction
35 01 40.51 35 01 40.92	Waterway Dredging Preservation of Water Courses
35 01 40.92 35 01 50	Operation and Maintenance of Marine Construction
35 01 50.51	Marine Dredging
35 01 50.71	Channel Excavation, Cleaning and Deepening
35 01 70	Operation and Maintenance of Dams
35 05 00	Common Work Results for Waterway and Marine
	Construction
35 05 05	Selective Demolition for Waterway and Marine Construction
35 05 30	Common Work Results for Coastal Construction
35 05 40	Common Work Results for Waterway Construction
35 05 50	Common Work Results for Marine Construction
35 05 70	Common Work Results for Dams
35 06 00	Schedules for Waterway and Marine Construction
35 06 30	Schedules for Coastal Construction
35 06 40 35 06 50	Schedules for Waterway Construction Schedules for Marine Construction
35 06 70 35 06 70	Schedules for Dams
35 08 00	Commissioning of Waterway and Marine Construction
35 08 30	Commissioning of Coastal Construction
35 08 40	Commissioning of Waterway Construction
35 08 50	Commissioning of Marine Construction
35 08 70	Commissioning of Dams
35 10 00	Waterway and Marine Signaling and
00 10 00	
0= 44.00	Control Equipment
35 11 00	Signaling and Control Equipment for Waterways
35 11 13	Signaling Equipment for Waterways
35 11 53	Control Equipment for Waterways
35 12 00	Marine Signaling and Control Equipment
35 12 13 35 12 13.13	Marine Signaling Equipment
35 12 13.13	Lighthouse Equipment Marine Navigation Equipment
35 12 53	Marine Control Equipment
35 13 00	Signaling and Control Equipment for Dams
35 13 13	Signaling Equipment for Dams
35 13 53	Control Equipment for Dams
35 20 00	Waterway and Marine Construction and
25 24 22	Equipment
35 21 00	General Fabrications for Waterways
35 21 13 35 21 16	Hydraulic Bifurcation Panels
35 21 16 35 21 19	Hydraulic Bulkheads Hydraulic Manifolds
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35 21 23 35 21 33 35 21 36 35 22 00 35 22 13 35 22 19 35 22 26	Penstocks Trash Racks Debris Cages Hydraulic Gates Spillway Crest Gates Hydraulic Head Gates Sluice Gates Mitor Cates
35 22 33 35 22 39 35 22 46 35 22 53 35 22 59 35 22 63	Miter Gates Sector Gates Tainter Gates Vertical Lift Hydraulic Gates Hydraulic Closure Gates Through-Levee Access Gates
35 24 00 35 24 13 35 24 13.11 35 24 13.13 35 24 13.16 35 24 13.23 35 24 13.26 35 24 21 35 24 21 35 24 23 35 24 26 35 24 33 35 24 36 35 24 43 35 24 46 35 24 53	Dredging Suction Dredging Training Suction Dredging Cutter Suction Dredging Auger Suction Dredging Jet-Lift Dredging Air-Lift Dredging Bucket Dredging Clamshell Dredging Backhoe/Dipper Dredging Water Injection Dredging Pneumatic Dredging Bed-Levelling Dredging Krabbelaar Dredging Waterway Snag Removal
35 30 00	Coastal Construction
35 31 00 35 31 16.13 35 31 16.16 35 31 16.19 35 31 16.23 35 31 16.40 35 31 19.13 35 31 19.16 35 31 19.16 35 31 19.36 35 31 19.40 35 31 23.13 35 31 23.13 35 31 23.16 35 31 26.13 35 31 26.13 35 31 26.16 35 31 26.36 35 31 26.40 35 31 29 35 31 29.13	Shoreline Protection Seawalls Concrete Seawalls Segmental Seawalls Steel Sheet Piling Seawalls Timber Seawalls Stone Seawalls Revetments Sacked Cement-Sand Revetments Concrete Unit Masonry Revetments Gabion Revetments Stone Revetments Breakwaters Rubble Mound Breakwaters Precast Breakwater Modules Jetties Concrete Jetties Concrete Unit Masonry Jetties Gabion Jetties Stone Jetties Groins Concrete Groins

	35 31 29.16	Concrete Unit Masonry Groins
	35 31 29.26	Steel Groins
	35 31 29.36	Gabion Groins
	35 31 29.40	Stone Groins
35	32 00	Artificial Reefs
	35 32 13	Scrap Material Artificial Reefs
	35 32 13.13	Scrap Concrete Artificial Reefs
	35 32 13.19	Scrap Steel Artificial Reefs
	35 32 13.33	Sunken Ship Artificial Reefs
	35 32 16	Constructed Artificial Reefs
	35 32 16.13	Constructed Concrete Artificial Reefs
	35 32 16.19	Constructed Steel Artificial Reefs
35	40 00	Waterway Construction and Equipment
35	41 00	Levees
	35 41 13	Landside Levee Berms
	35 41 13.13	Stability Landside Levee Berms
	35 41 13.16	Seepage Landside Levee Berms
	35 41 16	Levee Cutoff Trenches
	35 41 19	Levee Relief Wells
35	42 00	Waterway Bank Protection
	35 42 13	Piling Bank Protection
	35 42 13.19	Steel Sheet Piling Bank Protection
	35 42 13.23	Timber Piling Bank Protection
	35 42 13.26	Plastic Piling Bank Protection
	35 42 29	Grout-Bag Bank Protection
	35 42 34	Soil Reinforcement Bank Protection
	35 42 35	Slope Protection Bank Protection
	35 42 36	Gabion Bank Protection
	35 42 37	Riprap Bank Protection
	35 42 53	Wall Bank Protection
	35 42 53.16	Concrete Unit Masonry Wall Bank Protection
	35 42 53.19	Segmental Wall Bank Protection
	35 42 53.40	Stone Wall Bank Protection
35	43 00	Waterway Scour Protection
	35 43 29	Grout-Bag Scour Protection
	35 43 34	Soil Reinforcement Scour Protection
	35 43 35	Slope Protection Scour Protection
	35 43 36	Gabion Scour Protection
	35 43 37	Riprap Scour Protection
	35 43 53	Wall Scour Protection
	35 43 53.13	Concrete Unit Masonry Wall Scour Protection
	35 43 53.16	Segmental Wall Scour Protection
	35 43 53.40	Stone Wall Scour Protection
35	49 00	Waterway Structures
	35 49 13	Floodwalls
	35 49 13.13	Concrete Floodwalls
	35 49 13.16	Masonry Floodwalls
	35 49 23	Waterway Locks
	35 49 23.13	Concrete Waterway Locks
	35 49 23.23	Piling Waterway Locks
	35 49 26	Floodgate Machinery

05 50 00	
35 50 00	Marine Construction and Equipment
35 51 00	Floating Construction
35 51 13	Floating Piers
35 51 13.23	Floating Wood Piers
35 51 13.26	Floating Plastic Piers
35 51 23	Pontoons
35 52 00	Offshore Platform Construction
35 52 13	Fixed Offshore Platform Construction
35 52 23	Semi-Submersible Offshore Platform Construction
35 52 33	Floating Offshore Platform Construction
35 53 00	Underwater Construction
35 53 23	Underwater Harbor Deepening
35 53 33	Underwater Pipeline Construction
35 53 43	Underwater Foundation Construction
35 53 53	Underwater Structures Construction
35 53 63	Underwater Waterproofing
35 59 00	Marine Specialties
35 59 13	Marine Fenders
35 59 13.13	Prestressed Concrete Marine Fender Piling
35 59 13.16 35 59 13.19	Resilient Foam-Filled Marine Fenders Rubber Marine Fenders
35 59 23	Buoys
35 59 23.13	Mooring Buoys
35 59 23.16	Anchor Pendant Buoys
35 59 23.19	Navigation Buoys
35 59 29	Mooring Devices
35 59 29.13	Quick-Release Mooring Hooks
35 59 29.16	Laser Docking Systems
35 59 29.19 35 59 33	Capstans Marine Bollards and Cleats
35 59 33.13	Cast-Steel Marine Bollards and Cleats
35 59 33.16	Cast-Iron Marine Bollards and Cleats
35 59 33.19	Stainless-Steel Marine Bollards and Cleats
35 59 33.23	Plastic Marine Bollards and Cleats
35 59 93	Marine Chain and Accessories
35 59 93.13	Marine Chain
35 59 93.16 35 59 93.19	Marine Shackles Marine Chain Tensioners
35 70 00	Dam Construction and Equipment
35 71 00	Gravity Dams
35 71 13	Concrete Gravity Dams
35 71 16	Masonry Gravity Dams
35 71 19	Rockfill Gravity Dams
35 72 00	Arch Dams
35 72 13	Concrete Arch Dams
35 73 00	Embankment Dams
35 73 13	Earth Embankment Dam
35 73 16	Rock Embankment Dams
35 74 00	Buttress Dams

35 74 13	Concrete Buttress Dams
35 79 00	Auxiliary Dam Structures
35 79 13	Fish Ladders
35 79 13.13	Concrete Fish Ladders
40 00 00	Process Interconnections
40 01 00	
40 01 00	Operation and Maintenance of Process
	Interconnections
40 01 10	Operation and Maintenance of Gas and Vapor Process Piping
40 01 20	Operation and Maintenance of Liquids Process Piping
40 01 30	Operation and Maintenance of Solid and Mixed Materials Piping and Chutes
40 01 40	Operation and Maintenance of Process Piping and Equipment Protection
40 01 60	Operation and Maintenance of Process Control and Process Facility Enterprise Management Systems
40 01 70	Operation and Maintenance of Instrumentation for Process Systems
40 01 90	Operation and Maintenance of Primary Control Devices
40 05 00	Common Work Results for Process Interconnections
40 05 05	Exposed Piping Installation
40 05 06	Couplings, Adapters, and Specials for Process Piping
40 05 07	Hangers and Supports for Process Piping
40 05 09	Wall Pipes, Floor Pipes, and Pipe Sleeves
40 05 11	Aluminum Process Pipe
40 05 12	Brass Process Pipe
40 05 13	Bronze Process Pipe
40 05 17	Copper Process Pipe and Tubing
40 05 19	Ductile Iron Process Pipe
40 05 21	High-Alloy Nickel Process Pipe and Tubing
40 05 23	Stainless Steel Process Pipe and Tubing
40 05 23.13	Duplex and Super-Duplex Stainless Steel Process Pipe
40 05 23.23	300- and 400-Series Stainless Steel Process Pipe
40 05 23.33	Special-Fabrication Stainless Steel Process Pipe and Tubing
40 05 24	Steel Process Pipe
40 05 24.13 40 05 24.23	Steel Pipe and Tubing for Air and Gas Service Steel Pipe for Water Service
40 05 24.23	Steel Pipe and Tubing for Process Liquid Service
40 05 24.33	Steel Pipe for Bulk Materials Conveyance
40 05 26	Other Metals Process Pipe
40 05 26.13	Titanium Process Pipe
40 05 26.23	Tantalum Process Pipe
40 05 26.33	Zirconium Process Pipe
40 05 31	Thermoplastic Process Pipe
40 05 31.13	Polyvinyl Chloride Process Pipe
40 05 31.23	Chlorinated Polyvinyl Chloride Process Pipe
40 05 31.33 40 05 31.43	ABS Process Pipe Polypropylene Process Pipe
40 05 31.53	PVDF Process Pipe
40 05 31.63	High-Purity Plastic Process Pipe
40 05 31.83	Flexible Plastic Tubing
40 05 33	High-Density Polyethylene Process Pipe
40 05 36	Fiberglass-Reinforced Plastic Process Pipe
40 05 36.13	Fiberglass-Reinforced Plastic Pipe for Process Air, Gas, and Odor Service

40 05 37 Centrifugally Cast Fiberglass-Reinforced Polymer Mortar Process Pipe 40 05 38 PTFE Process Pipe 40 05 39.13 Concrete Pressure Water Pipe 40 05 39.23 Concrete Pressure Water Pipe 40 05 51 Concrete Oravity and Drainage Process Pipe 40 05 53 Process Valves Four-inch Diameter and Larger 40 05 56 Process Valves Four-inch Diameter and Larger 40 05 57 August Process Valves and Gates 40 05 57.3 Manual Actuators 40 05 57.3 Hydraulic Cylinder Actuators 40 05 57.3 Hydraulic Cylinder Actuators 40 05 57.3 Hydraulic Cylinder Actuators 40 05 59.3 Hydraulic Gates 40 05 59.5 Hydraulic Gates 40 05 59.21 Aluminum Slide Gates 40 05 59.21 Aluminum Slide Gates 40 05 59.23 Stainless Steel Slide Gates 40 05 59.3 Butterfly Gates 40 05 61.3 Cast Iron Slide Gate Valves 40 05 61.3 Cast Iron Slide Gate Valves 40 05 61.43 Knife Gate Valves 40 05 62.16 Eccentric Plug Valves for Gas Service 40 05 63.13 AWWA Metal-Seated Ball Valves 40 05 63.13 AWWA Metal-Seated Ball Valves 40 05 64.26 Palsatic Industrial Butterfly Valves 40 05 64.26 Palsatic Industrial Butterfly Valves 40 05 64.3 Metal-Seated Ball Valves 40 05 65.3 Swing Check Valves 40 05 65.1 Aangle Valves 40 05 65.1 Aangle Valves 40 05 66.1 Aangle Valves 40 05 66.2 Aangle Valves 40 05 66.3 Aangle	40.05.00.00	
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40 05 67.23	Pressure Vacuum Breaker Backflow Preventers
40 05 67.26	Atmospheric Vacuum Breaker Backflow Preventers
40 05 67.29	Hose Connection Vacuum Breaker Backflow Preventers
40 05 67.33	Backpressure Valves
40 05 67.36	Pressure-Regulating Valves
40 05 67.39	Pressure-Relief Valves
40 05 67.41	Direct-Acting Surge Relief Valves for Water Service
40 05 67.43	Pilot-Operated Surge Relief Valves for Water Service
40 05 67.44	Pilot-Operated Surge Arrestor Valves for Water Service
40 05 67.46 40 05 67 47	Electronic Surge Anticipator Valves for Water Service
40 05 67.47 40 05 67.49	Surge Relief Valves for Wastewater Service Electronic Surge Anticipator Valves for Wastewater Service
40 05 07.49	Solids Handling Valves
	Duckbill Check Valves
40 05 71.13 40 05 71.16	Flap Gates
40 05 71.10	Mud Valves
40 05 71.23	Telescoping Valves
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40 05 73.10	Anti-Cavitation Valves
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40 05 74.13	Diaphragm Valves
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40 05 78.19	Combination Air Valves for Water Service
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		Ductwork
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	40 11 13	Low-Pressure Steam Process Piping
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	40 11 23	Condensate Process Piping for Process Applications
40	12 00	Compressed Air Process Piping
	40 12 13	Compressed Air Process Piping for Breathing Service
	40 12 23	Low-Pressure Compressed Air Process Piping
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40	13 00	Process Ductwork
40	15 00	Combustion System Gas Piping
	40 15 13	Combustion Air Piping
	40 15 16	Oxygen Combustion System Gas Piping
	40 15 19	Flue-Gas Combustion System Piping
	40 15 23	Exothermic-Gas Combustion System Piping
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40	16 00	Specialty and High-Purity Gases Piping
	40 16 13	Ammonia Gas Piping
	40 16 16	Boron Gas Piping
	40 16 17	Chlorine Gas Piping
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	40 16 37 40 16 39	Oxygen Gas Process Piping Ozone Gas Process Piping
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40	17 00	Welding and Cutting Gases Piping
	40 17 13	Acetylene Welding and Cutting Piping
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40	18 00	Vacuum Systems Process Piping
	40 18 13	Low-Vacuum Systems Process Piping
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40 18 53	High-Vacuum Systems Process Piping
40 20 00	Liquids Process Piping
40 21 00	Liquid Fuel Process Piping
40 21 13	Bio Fuels Process Piping
40 21 13.13	Bioalcohols Process Piping
40 21 13.23	Biodiesel Fuel Process Piping
40 21 13.26 40 21 13.33	Green Diesel Fuel Process Piping Biomass-to-Liquid (BTL) Fuel Process Piping
40 21 13.43	Gas-to-Liquid (GTL) Fuel Process Piping
40 21 16	Gasoline Process Piping
40 21 19	Diesel Process Piping
40 21 23	Fuel-Oils Process Piping
40 21 23.13	No. 1 Fuel-Oil Process Piping
40 21 23.23 40 21 23.26	No. 2 Fuel-Oil Process Piping
40 21 23.29	Kerosene Process Piping Tar Fuels Process Piping
40 21 23.43	No. 4 Fuel-Oil Process Piping
40 21 23.53	No. 5 Fuel-Oil Process Piping
40 21 23.63	No. 6 Fuel-Oil Process Piping
40 22 00	Petroleum Products Piping
40 22 10	Heavy-Fractions Petroleum Products Piping
40 22 13	Liquefied Petroleum Gas (LPG) Process Piping
40 22 16	Lubricating Oils Process Piping
40 22 23 40 22 50	Petrochemicals Process Piping Light-Fractions Petroleum Products Piping
40 23 00	Water and Wastewater Process Piping
40 23 13	Deionized Water Process Piping
40 23 16	Distilled-Water Process Piping
40 23 19	Non-Potable Plant Water Process Piping
40 23 23	Potable Water Process Piping
40 23 29	Recirculated Water Process Piping
40 23 33	Reverse-Osmosis Water Process Piping
40 23 40	Sanitary Wastewater Process Piping
40 23 41	Grit Process Piping
40 23 43	Scum and Floatables Process Piping
40 23 44 40 23 46	Primary Sludge Process Piping Waste Sludge Process Piping
40 23 48	Thickened Sludge Process Piping
40 24 00	Specialty Liquid Chemicals Piping
40 24 13	Alcohol Piping
40 24 14	Liquid Chlorine and Sodium Hypochlorite Piping
40 24 16	Gel Piping
40 24 19	Slurries Process Piping
40 24 23	Thixotropic Liquid Piping
40 25 00	Liquid Acids and Bases Piping
40 25 10	Liquid Acids Piping
40 25 50	Liquid Bases Piping
40 26 00	Liquid Polymer Piping

40 30 00	Solid and Mixed Materials Piping and
	Chutes
40 32 00	Bulk Materials Piping and Chutes
40 32 10	Abrasive Materials Piping and Chutes
40 32 50	Nonabrasive Materials Piping and Chutes
40 33 00	Bulk Materials Valves
40 33 13	Airlock Bulk Materials Valves
40 33 16	Blind Bulk Materials Valves
40 33 26	Diverter Bulk Materials Valves
40 33 29	Double or Single Dump Bulk Materials Valves
40 33 39	Swing Bulk Materials Valves
40 33 43	Specialty Bulk Materials Valves
40 34 00	Pneumatic Conveying Lines
40 34 10	Dense Phase Pneumatic Conveying Lines
40 34 50	Dilute Phase Pneumatic Conveying Lines
40 40 00	Process Piping and Equipment Protection
	. •
40 41 00	Process Piping and Equipment Heat Tracing
40 41 13 40 41 13.13	Process Piping Heat Tracing Process Piping Electrical Resistance Heat Tracing
40 41 13.16	Process Piping Electrical Resistance Heat Tracing Process Piping Electrical Conductance Heat Tracing
40 41 13.19	Process Piping Gas Heat Tracing
40 41 13.23	Process Piping Steam Heat Tracing
40 41 13.26	Process Piping Thermal Fluids Heat Tracing
40 41 23	Process Equipment Heat Tracing
40 41 23.13	Process Equipment Electrical Resistance Heat Tracing
40 41 23.16 40 41 23.19	Process Equipment Electrical Conductance Heat Tracing Process Equipment Gas Heat Tracing
40 41 23.23	Process Equipment Steam Heat Tracing
40 41 23.26	Process Equipment Thermal Fluids Heat Tracing
40 42 00	Process Piping and Equipment Insulation
40 42 13	Process Piping Insulation
40 42 13.13	Cryogenic Temperature Process Piping Insulation
40 42 13.16	Low Temperature Process Piping Insulation
40 42 13.19 40 42 13.23	Intermediate Temperature Process Piping Insulation High Temperature Process Piping Insulation
40 42 13.26	Process Piping Insulation for Specialty Applications
40 42 23	Process Equipment Insulation
40 42 23.13	Cryogenic Temperature Process Equipment Insulation
40 42 23.16	Low Temperature Process Equipment Insulation
40 42 23.19	Intermediate Temperature Process Equipment Insulation
40 42 23.23	High Temperature Process Equipment Insulation
40 42 23.26	Process Equipment Insulation for Specialty Applications
40 46 00	Process Corrosion Protection
40 46 16	Coatings and Wrappings for Process Corrosion Protection
40 46 42	Cathodic Process Corrosion Protection
40 47 00	Refractories
40 47 13	Silica Refractories
40 47 16 40 47 10	Alumina Refractories
40 47 19	Carbon and Graphite Refractories

40 47 23 40 47 26	Castable Refractories Rammed Refractories
40 47 29	Refractory Concrete
40 60 00	Process Control and Enterprise
	Management Systems
40 61 00	Process Control and Enterprise Management Systems
	General Provisions
40 61 13	Process Control System General Provisions
40 61 16	Enterprise Management System General Provisions
40 61 21	Process Control System Testing
40 61 26	Process Control System Training
40 61 93	Process Control System Input/Output List
40 61 96	Process Control Descriptions
40 62 00	Computer System Hardware and Ancillaries
40 62 13	Server Computers
40 62 16	Operator Workstation Computers
40 62 19	Industrial Computers
40 62 21	Desktop Computers
40 62 23	Mobile Computers
40 62 26	Laptop Computers
40 62 29 40 62 33	Tablet Computers and Mobile Devices Printers
40 62 33	Large Display Screens
40 62 63	Operator Interface Terminals (OIT)
40 63 00	. ,
40 63 13	Control System Equipment
40 63 13	Distributed Process Control Systems Programmable Logic Controllers
40 63 83	Remote Terminal Units
40 66 00	
40 66 13	Network and Communication Equipment Switches and Routers
40 66 16	Firewall Hardware
40 66 19	Media Converters
40 66 23	Frame Relay Equipment
40 66 26	Device Network Equipment
40 66 33	Metallic and Fiber-Optic Communication Cabling and Connectors
40 66 36	Process Instrumentation Networks
40 66 43	Wireless Network Systems
40 66 53	Multiple Address Radio Equipment
40 66 56	Point-to-Point Radio Equipment
40 66 63	Antennas
40 66 66	Monopoles and Towers
40 66 73	Satellite Communication Equipment
40 67 00	Control System Equipment Panels and Racks
40 67 13	Computer Equipment Racks
40 67 16	Free-Standing Panels
40 67 19	Wall-Mounted Panels
40 67 23	Control System Consoles
40 67 33	Panel Wiring

40 67 63	Control Panel-Mounted Uninterruptible Power Supply
40 68 00	Process Control Software
40 68 13	Process Control (HMI) Software
40 68 23	Reporting Software
40 68 26	Online Performance Monitoring Systems Software
40 68 33	Maintenance Management Software
40 68 36	Laboratory Information System Software
40 68 39	Energy Management Software
40 68 43	Load Management Software
40 68 63	Configuration of HMI Software
40 68 66	Programming of Controller Software
40 68 93	Computer Operating Systems Software
40 69 00	Packaged Control Systems
40 69 13	Control System Simulators
40 69 23	Burner Management Systems
40 69 26	Safety Instrumented Control Systems
40 69 33	Fire and Gas Monitoring/Protection Systems for Industrial Applications
40 70 00	Instrumentation for Process Systems
40 71 00	Flow Measurement
40 71 13	Magnetic Flow Meters
40 71 13.13	Inline Magnetic Flow Meters
40 71 13.23	Insertion-Type Magnetic Flow Meters
40 71 23	Differential Pressure-Type Flow Meters
40 71 23.13 40 71 23.16	Venturi Flow Meters Flow Tubes
40 71 23.10	Flow Nozzle-Type Flow Meters
40 71 23.23	Orifice Plate Flow Meters
40 71 23.26	Integral Orifice Flow Meters
40 71 23.29	Orifice Meter Runs
40 71 23.33	Elbow Flow Meters
40 71 23.36 40 71 23.39	Pitot Tube and Averaging Pitot Flow Meters V-Cone Flow Meters
40 71 23.43	Differential Pressure-Type Flow Transmitters
40 71 23.46	Flow Computers
40 71 33	Propeller Flow Meters
40 71 36	Turbine Flow Meters
40 71 43	Variable Area Flow Meters
40 71 46	Target Flow Meters
40 71 49	Vortex-Shedding Flow Meters
40 71 53	Positive Displacement Flow Meters
40 71 63	Doppler Flow Meters
40 71 66	Transit Time Flow Meters
40 71 69	Open Channel Flow Meters
40 71 73 40 71 76	Coriolis Flow Meters Thermal Flow Meters
40 71 79	Flow Switches
40 71 79	Sight Flow Indicators
40 71 86	Flow Metering Weirs
40 72 00	Level Measurement
40 72 13	Ultrasonic Level Meters (Continuous and Point-Type)
10 12 10	Singestine Ester Meters (Softlindeds and Former Type)

	40 72 23	Radar Level Meters
	40 72 26	Laser Level Meters
	40 72 29	Nuclear Level Meters
	40 72 33	Capacitance Type Level Meters (Continuous and Point Type)
	40 72 36	RF Admittance Level Meters (Continuous and Point Type)
	40 72 43	Pressure and Differential Pressure Type Level Meters
	40 72 46	Bubbler Systems
	40 72 53	Magnetic and Magnetostrictive Level Meters
	40 72 63	Displacement-Type Level Meters
	40 72 73	Sight Level Gauges
	40 72 76	Level Switches
	40 72 83	Leak Detection Systems
40	73 00	Pressure, Strain, and Force Measurement
	40 73 13	Pressure and Differential Pressure Gauges
	40 73 16	Manometers
	40 73 23	Absolute-Pressure Transmitters
	40 73 26	Gauge-Pressure Transmitters
	40 73 29	Differential Pressure Transmitters
	40 73 33	Multi-Variable Pressure/Temperature Transmitters
	40 73 36	Pressure and Differential Pressure Switches
	40 73 43	Force Measurement Devices
	40 73 46	Load Cells
	40 73 53	Torque Measurement Devices
	40 73 63	Diaphragm Seals
40	74 00	Temperature Measurement
	40 74 13	Resistance Temperature Devices
	40 74 16	Thermocouples
	40 74 23	Radiation Pyrometers
	40 74 33	Thermistors
	40 74 36	Diode Temperature Measurement Devices
	40 74 43	Bimetallic Thermometers
	40 74 46	Fluid Expansion Thermometers
	40 74 49	Change-of-State Temperature Measurement Devices
	40 74 53	Cryogenic Temperature Sensors
	40 74 63	Temperature Transmitters
	40 74 66	Temperature Switches
	40 74 69	Thermowells, Protection Tubes, and Test Thermowells
40	75 00	Process Liquid Analytical Measurement
	40 75 05	Multi-Parameter Analyzer Systems
	40 75 13	pH/ORP Analyzers
	40 75 16	Conductivity Analyzers
	40 75 19	Moisture Analyzers
	40 75 21	Chlorine Analyzers
	40 75 21.13	Free-Chlorine Analyzers
	40 75 21.23	Residual-Chlorine Analyzers
	40 75 23	Chlorine Dioxide Analyzer
	40 75 26	Dissolved Chlorine Dioxide Analyzers
	40 75 29	Dissolved Ammonia Analyzers
	40 75 33	Fluoride Analyzers
	40 75 43	Dissolved Oxygen Analyzers

	40 75 46	Dissolved Ozone Analyzers
	40 75 53	Turbidity Analyzers
	40 75 56	Suspended Solids/Sludge Density Analyzers
	40 75 59	Liquid Density Analyzers
	40 75 63	Monochloramine Analyzers
	40 75 66	Nitrogen Analyzers
	40 75 69	Phosphorous Analyzers
	40 75 73	Particle Counters
	40 75 76	Total Organic Carbon Analyzers
	40 75 79	Total Organics Analyzers
	40 75 83	Hardness Analyzers
	40 75 86	Alkalinity Analyzer
40	76 00	Process Gas Analytical Measurement
	40 76 05	Continuous Emissions Monitoring Systems
	40 76 13	Oxygen Gas Analyzers
	40 76 16	Ozone Analyzers
	40 76 23	Combustible Gas Monitors
	40 76 26	Chlorine Gas Analyzers
	40 76 29	Ammonia Gas Analyzers
	40 76 33	Hydrogen Sulfide Monitors
	40 76 36	Sulfur Dioxide Analyzers
	40 76 39	Carbon Dioxide Analyzers
	40 76 43	Carbon Monoxide Analyzers
	40 76 53	Dewpoint/Moisture Analyzers
	40 76 56	Gas Density Analyzers
	40 76 63	Flue Gas Analyzers
	40 76 66	NO/NOX Analyzers
	40 76 73	Hydrocarbon Analyzers
	40 76 76	Gas Chromatograph Analyzers
	40 76 79	Vapor Pressure Analyzers
	40 76 83	Mass Spectrometers
40	77 00	Position and Motion Measurement
	40 77 13	Acceleration Measurement Devices
	40 77 16	Proximity Measurement Devices
	40 77 19	Vibration Velocity Measurement Devices
	40 77 23	Vibration Monitoring Systems
	40 77 26	Position, Speed, and Motion Measurement Devices
40	78 00	Panel Mounted Instruments
	40 78 13	Indicators and Meters
	40 78 16	Indicating Lights
	40 78 19	Switches and Push Buttons
	40 78 23	Potentiometers and Manual Controllers
	40 78 26	Chart Recorders
	40 78 33	Annunciators
	40 78 43	Single-Loop Controllers
	40 78 53	Relays
	40 78 56	Isolators, Intrinsically-Safe Barriers, and Surge Suppressors
	40 78 59	Power Supplies
	40 78 63	Alarm Dialers
40	79 00	Miscellaneous Instruments, Calibration Equipment

	Instrument Valves, and Fittings
40 79 13	Nuclear Mass-Measuring Scales
40 79 23	Instrument Calibration Equipment
40 79 26	Instrument Programming Equipment
40 79 33	Current-to-Pressure Converters
40 79 36	Voltage-to-Pressure Converters
40 79 39	Signal Conditioners and Converters
40 79 43	Deadweight Testers Flame Scanners
40 79 46 40 79 63	Instrument Tubing
40 79 66	Instrument Valve Manifolds, Valves, and Fittings
40 80 00	
	Commissioning of Process Systems
40 90 00	Primary Control Devices
40 91 00	Primary Control Valves
40 91 13	Electrically-Operated Primary Control Valves
40 91 16	Hydraulically-Operated Primary Control Valves
40 91 19 40 91 23	Pneumatically-Operated Primary Control Valves Solenoid Primary Control Valves
40 91 23	Specialty Primary Control Valves
40 92 00	Self-Contained Flow Controllers
40 93 00	Linear Actuators and Positioners
40 94 00	
	Self-Contained Pressure Regulators
40 95 00	Rotary Actuators
40 96 00	Saturable Core Reactors
40 97 00	Variable Frequency Drives
41 00 00	Material Processing and Handling
	Equipment
41 01 00	Operation and Maintenance of Material Processing
	and Handling Equipment
41 01 52	Operation and Maintenance of Bulk Materials Storage
41 01 52.13	Storage Bin and Hopper Cleaning
41 01 52.16	Silo Cleaning Common World Booulto for Motorial Brooks and
41 05 00	Common Work Results for Material Processing and
44.05.05	Handling Equipment
41 05 05	Selective Demolition for Material Processing and Handling Equipment
41 06 00	Schedules for Material Processing and Handling
44.00.40	Equipment
41 06 10	Schedules for Bulk Material Processing Equipment
41 06 20 41 06 30	Schedules for Piece Material Handling Equipment Schedules for Manufacturing Equipment
41 06 30	Schedules for Container Processing and Packaging
41 06 50	Schedules for Material Storage
41 06 60	Schedules for Mobile Plant Equipment
41 08 00	Commissioning of Material Processing and Handling

		Equipment
	41 08 10	Commissioning of Bulk Material Processing Equipment
	41 08 20	Commissioning of Piece Material Handling Equipment
	41 08 30	Commissioning of Manufacturing Equipment
	41 08 40	Commissioning of Container Processing and Packaging
	41 08 50	Commissioning of Material Storage
	41 08 60	Commissioning of Mobile Plant Equipment
41	10 00	Bulk Material Processing Equipment
	11 00	<u> </u>
41		Bulk Material Sizing Equipment
	41 11 13	Bulk Material Agglomerators
	41 11 16	Bulk Material Air Mill Classifiers
	41 11 19	Bulk Material Centrifuges
	41 11 23	Bulk Material Crushers
	41 11 26	Bulk Material Cyclones
	41 11 29 41 11 33	Bulk Material Fluid Bed Separators Bulk Material Grinders
	41 11 36 41 11 39	Bulk Material Lump Propkers
	41 11 43	Bulk Material Lump Breakers Bulk Material Mills
	41 11 43	Bulk Material Pulverizers
	41 11 49	Bulk Material Screens
	41 11 49	Bulk Material Shredders
	41 11 56	Bulk Material Sieves
44		
41	12 00	Bulk Material Conveying Equipment
	41 12 13	Bulk Material Conveyors
	41 12 13.13	Airslide Bulk Material Conveyors
	41 12 13.16 41 12 13.19	Auger Bulk Material Conveyors Belt Bulk Material Conveyors
	41 12 13.19	Container Bulk Material Conveyors
	41 12 13.26	Drag Chain Bulk Material Conveyors
	41 12 13.29	Hopper Bulk Material Conveyors
	41 12 13.33	Reciprocating Bulk Material Conveyors
	41 12 13.36	Screw Bulk Material Conveyors
	41 12 13.39	Stacking and Reclaim Bulk Material Conveyors
	41 12 13.43	Trough Bulk Material Conveyors
	41 12 13.46 41 12 13.49	Tube Bulk Material Conveyors Vibratory Bulk Material Conveyors
	41 12 13.49	Weigh-Belt Bulk Material Conveyors
	41 12 16	Bucket Elevators
	41 12 19	Pneumatic Conveyors
	41 12 19.13	Dense Phase Pneumatic Conveyors
	41 12 19.16	Dilute Phase Pneumatic Conveyors
41	13 00	Bulk Material Feeders
	41 13 13	Bin Activators/Live Bin Bottoms
	41 13 23	Feeders
	41 13 23.13	Airlock Bulk Material Feeders
	41 13 23.16	Apron Bulk Material Feeders
	41 13 23.19	Rotary-Valve Bulk Material Feeders
	41 13 23.23	Screw Bulk Material Feeders
	41 13 23.26	Vibratory Bulk Material Feeders
	41 13 23.29	Volumetric Bulk Material Feeders

41 13 23.3	33 Weigh Bulk Material Feeders
41 14 00	Batching Equipment
41 14 13	Bag-Handling Batching Equipment
41 14 16	Batch Cars/Transports
41 14 19	Batch Hoppers
41 14 23	Bulk Bag-Handling Batching Equipment
41 14 26	Blenders
41 14 29	Drum-Handling Batching Equipment
41 14 33	Mixers
41 14 36	Weigh Scales
41 20 00	Piece Material Handling Equipment
41 21 00	Conveyors
41 21 13	Automatic Guided Vehicle Systems
41 21 23	Piece Material Conveyors
41 21 23.1	•
41 21 23.1	· · · · · · · · · · · · · · · · · · ·
41 21 23.1	,
41 21 23.2 41 21 23.2	· · · · · · · · · · · · · · · · · · ·
41 21 23.2	•
41 21 23.3	· · · · · · · · · · · · · · · · · · ·
41 21 23.3	
41 21 23.3	,
41 21 23.4	,
41 21 23.4	,
41 21 23.5 41 21 26	Postal ConveyorsPiece Material Diverter Gates
41 21 29	Piece Material Gravity Slides
41 21 33	Piece Material Transfer Cars
41 21 36	Piece Material Turntables
41 21 39	Piece Material Feeders
41 21 39.1	
41 22 00	Cranes and Hoists
41 22 13	Cranes
41 22 13.1	
41 22 13.1	
41 22 13.1 41 22 13.2	
41 22 13.2	
41 22 13.2	
41 22 23	Hoists
41 22 23.1	3 Fixed Hoists
41 22 23.1	
41 22 23.1	
41 22 23.2 41 22 33	23 Specialty Hoists Derricks
41 23 00	Lifting Devices
41 23 13	Clamps
41 23 16	Grabs
41 23 19 41 23 23	Hooks Lifts
41 23 23	LII12

	41 23 26	Slings
	41 23 29	Spreader Bars/Beams
	41 23 33	Tongs
41	24 00	Specialty Material Handling Equipment
	41 24 13	Aeration Devices
	41 24 16	Bin Vibrators
	41 24 19	Dehydrators
	41 24 23	Hydrators
	41 24 26	· · · · · · · · · · · · · · · · · · ·
		Hydraulic Power Systems
	41 24 29	Lubrication Systems
	41 24 33	Magnetic Separators
	41 24 36	Metal Detectors
	41 24 39	Railcar Movers
	41 24 43	Turnheads/Distributors
	41 24 46	Sorting Machines
	41 24 46.13	Postal Sorting Machines
41	30 00	Manufacturing Equipment
	31 00	
4 I		Manufacturing Lines and Equipment
	41 31 13	Manufacturing Lines
	41 31 13.13	Assembly Lines
	41 31 13.16	Casting Lines
	41 31 13.19	Coating Lines
	41 31 13.23 41 31 13.26	Converting Lines Disassembly Lines
	41 31 13.29	Extrusion Lines
	41 31 13.33	Machining Lines
	41 31 13.36	Molding Lines
	41 31 13.39	Finishing/Painting Lines
	41 31 13.43	Painting Lines
	41 31 13.46	Pickling Lines
	41 31 13.49	Plating Lines
	41 31 13.53	Polishing Lines
	41 31 13.56	Press Lines
	41 31 13.59	Rolling/Calendaring Lines
	41 31 13.63	Web Processing Lines
	41 31 16	Pick and Place Systems
	41 31 19	Manufacturing-Line Robots
	41 31 23	Specialty Assembly Machines
41	32 00	Forming Equipment
	41 32 13	Bending Equipment
	41 32 16	Blow-Molding Equipment
	41 32 19	Brake-Forming Equipment
	41 32 23	Cold-Forming Equipment
	41 32 26	Die-Casting Equipment
	41 32 29	Drawing Equipment
	41 32 33	Electroforming Equipment
	41 32 36	Forging Equipment
	41 32 39	Extruding Equipment
	41 32 43	Metal-Spinning Equipment
	41 32 46	Piercing Equipment
	41 32 49	Powder Metal-Forming Equipment
	71 32 43	i owaei wetai-i ominiy Equipment

	41 32 53 41 32 56	Pressing Equipment Roll-Forming Equipment
	41 32 59	Shearing Equipment
	41 32 63	Spinning Equipment
	41 32 66	Stretching/Leveling Equipment
	41 32 69	Swaging Equipment
41	33 00	Machining Equipment
	41 33 13	Automatic Screw Machining Equipment
	41 33 16	Boring Equipment
	41 33 19	Broaching Equipment
	41 33 23	Drilling Equipment
	41 33 26	Electro-Discharge Machining Equipment
	41 33 29	Grinding Equipment
	41 33 33	Hobbing Equipment
	41 33 36	Lapping Equipment
	41 33 39	Lathe Equipment
	41 33 43	Leveling Equipment
	41 33 46	Machining Center Equipment
	41 33 53 41 33 53.13	Milling Equipment Horizontal Milling Equipment
	41 33 53.16	Vertical Milling Equipment
	41 33 60	Multi-Axis Machine Equipment
	41 33 63	Planing Equipment
	41 33 66	Reaming Equipment
	41 33 69	Routing Equipment
	41 33 73	Sawing Equipment
	41 33 76	Shaping Equipment
	41 33 79	Threading Equipment
41	34 00	Finishing Equipment
41	34 00 41 34 13	Finishing Equipment Anodizing Equipment
41	34 00 41 34 13 41 34 16	Finishing Equipment Anodizing Equipment Barrel Tumbling Equipment
41	34 00 41 34 13 41 34 16 41 34 23	Finishing Equipment Anodizing Equipment Barrel Tumbling Equipment Coating Equipment
41	34 00 41 34 13 41 34 16 41 34 23 41 34 23.13	Finishing Equipment Anodizing Equipment Barrel Tumbling Equipment Coating Equipment Diffusion Coating Equipment
41	34 00 41 34 13 41 34 16 41 34 23 41 34 23.13 41 34 23.16	Finishing Equipment Anodizing Equipment Barrel Tumbling Equipment Coating Equipment Diffusion Coating Equipment Dipping Coating Equipment
41	34 00 41 34 13 41 34 16 41 34 23 41 34 23.13	Finishing Equipment Anodizing Equipment Barrel Tumbling Equipment Coating Equipment Diffusion Coating Equipment
41	34 00 41 34 13 41 34 16 41 34 23 41 34 23.13 41 34 23.16 41 34 23.19 41 34 23.23 41 34 23.26	Finishing Equipment Anodizing Equipment Barrel Tumbling Equipment Coating Equipment Diffusion Coating Equipment Dipping Coating Equipment Film Coating Equipment Phosphatizing Coating Equipment Plasma Coating Equipment
41	34 00 41 34 13 41 34 16 41 34 23 41 34 23.13 41 34 23.16 41 34 23.19 41 34 23.23 41 34 23.26 41 34 23.29	Finishing Equipment Anodizing Equipment Barrel Tumbling Equipment Coating Equipment Diffusion Coating Equipment Dipping Coating Equipment Film Coating Equipment Phosphatizing Coating Equipment Plasma Coating Equipment Hardface Welding Coating Equipment
41	34 00 41 34 13 41 34 16 41 34 23 41 34 23.13 41 34 23.16 41 34 23.29 41 34 23.26 41 34 23.29 41 34 23.33	Finishing Equipment Anodizing Equipment Barrel Tumbling Equipment Coating Equipment Diffusion Coating Equipment Dipping Coating Equipment Film Coating Equipment Phosphatizing Coating Equipment Plasma Coating Equipment Hardface Welding Coating Equipment Spray Painting Booth
41	34 00 41 34 13 41 34 16 41 34 23 41 34 23.13 41 34 23.16 41 34 23.19 41 34 23.23 41 34 23.26 41 34 23.29 41 34 23.33 41 34 26	Finishing Equipment Anodizing Equipment Barrel Tumbling Equipment Coating Equipment Diffusion Coating Equipment Dipping Coating Equipment Film Coating Equipment Phosphatizing Coating Equipment Plasma Coating Equipment Hardface Welding Coating Equipment Spray Painting Booth Deburring Equipment
41	34 00 41 34 13 41 34 16 41 34 23 41 34 23.13 41 34 23.16 41 34 23.19 41 34 23.23 41 34 23.26 41 34 23.29 41 34 23.33 41 34 26 41 34 36	Finishing Equipment Anodizing Equipment Barrel Tumbling Equipment Coating Equipment Diffusion Coating Equipment Dipping Coating Equipment Film Coating Equipment Phosphatizing Coating Equipment Plasma Coating Equipment Hardface Welding Coating Equipment Spray Painting Booth Deburring Equipment Electroplating Equipment
41	34 00 41 34 13 41 34 16 41 34 23 41 34 23.13 41 34 23.16 41 34 23.19 41 34 23.23 41 34 23.26 41 34 23.29 41 34 23.33 41 34 26 41 34 36 41 34 46	Finishing Equipment Anodizing Equipment Barrel Tumbling Equipment Coating Equipment Diffusion Coating Equipment Dipping Coating Equipment Film Coating Equipment Phosphatizing Coating Equipment Plasma Coating Equipment Hardface Welding Coating Equipment Spray Painting Booth Deburring Equipment Electroplating Equipment Grinding Equipment
41	34 00 41 34 13 41 34 16 41 34 23 41 34 23.13 41 34 23.16 41 34 23.19 41 34 23.23 41 34 23.26 41 34 23.29 41 34 23.33 41 34 26 41 34 36 41 34 46 41 34 49	Finishing Equipment Anodizing Equipment Barrel Tumbling Equipment Coating Equipment Diffusion Coating Equipment Dipping Coating Equipment Film Coating Equipment Phosphatizing Coating Equipment Plasma Coating Equipment Hardface Welding Coating Equipment Spray Painting Booth Deburring Equipment Electroplating Equipment Grinding Equipment Honing Equipment
41	34 00 41 34 13 41 34 16 41 34 23 41 34 23.13 41 34 23.16 41 34 23.19 41 34 23.23 41 34 23.23 41 34 23.29 41 34 23.33 41 34 26 41 34 36 41 34 49 41 34 53	Finishing Equipment Anodizing Equipment Barrel Tumbling Equipment Coating Equipment Diffusion Coating Equipment Dipping Coating Equipment Film Coating Equipment Phosphatizing Coating Equipment Plasma Coating Equipment Hardface Welding Coating Equipment Spray Painting Booth Deburring Equipment Electroplating Equipment Grinding Equipment Honing Equipment Lapping Equipment
41	34 00 41 34 13 41 34 16 41 34 23 41 34 23.13 41 34 23.16 41 34 23.19 41 34 23.23 41 34 23.26 41 34 23.29 41 34 23.33 41 34 26 41 34 36 41 34 46 41 34 49	Finishing Equipment Anodizing Equipment Barrel Tumbling Equipment Coating Equipment Diffusion Coating Equipment Dipping Coating Equipment Film Coating Equipment Phosphatizing Coating Equipment Plasma Coating Equipment Hardface Welding Coating Equipment Spray Painting Booth Deburring Equipment Electroplating Equipment Grinding Equipment Honing Equipment
	34 00 41 34 13 41 34 16 41 34 23 41 34 23.13 41 34 23.16 41 34 23.19 41 34 23.23 41 34 23.26 41 34 23.29 41 34 23.33 41 34 26 41 34 36 41 34 46 41 34 49 41 34 53 41 34 56 41 34 59	Finishing Equipment Anodizing Equipment Barrel Tumbling Equipment Coating Equipment Diffusion Coating Equipment Dipping Coating Equipment Film Coating Equipment Phosphatizing Coating Equipment Plasma Coating Equipment Hardface Welding Coating Equipment Spray Painting Booth Deburring Equipment Electroplating Equipment Grinding Equipment Honing Equipment Lapping Equipment Shot Peening Equipment Superfinishing/Polishing Equipment
	34 00 41 34 13 41 34 16 41 34 23 41 34 23.13 41 34 23.19 41 34 23.23 41 34 23.23 41 34 23.29 41 34 23.33 41 34 26 41 34 36 41 34 49 41 34 53 41 34 56 41 34 59 35 00	Finishing Equipment Anodizing Equipment Barrel Tumbling Equipment Coating Equipment Diffusion Coating Equipment Dipping Coating Equipment Film Coating Equipment Phosphatizing Coating Equipment Plasma Coating Equipment Hardface Welding Coating Equipment Spray Painting Booth Deburring Equipment Electroplating Equipment Grinding Equipment Honing Equipment Lapping Equipment Shot Peening Equipment
	34 00 41 34 13 41 34 16 41 34 23 41 34 23.13 41 34 23.16 41 34 23.19 41 34 23.23 41 34 23.26 41 34 23.29 41 34 23.33 41 34 26 41 34 36 41 34 46 41 34 49 41 34 53 41 34 56 41 34 59	Finishing Equipment Anodizing Equipment Barrel Tumbling Equipment Coating Equipment Diffusion Coating Equipment Dipping Coating Equipment Film Coating Equipment Phosphatizing Coating Equipment Plasma Coating Equipment Hardface Welding Coating Equipment Spray Painting Booth Deburring Equipment Electroplating Equipment Grinding Equipment Honing Equipment Lapping Equipment Shot Peening Equipment Superfinishing/Polishing Equipment Dies and Molds
	34 00 41 34 13 41 34 16 41 34 23 41 34 23.13 41 34 23.19 41 34 23.29 41 34 23.29 41 34 23.29 41 34 23.33 41 34 26 41 34 36 41 34 49 41 34 53 41 34 56 41 34 59 35 00 41 35 13	Finishing Equipment Anodizing Equipment Barrel Tumbling Equipment Coating Equipment Diffusion Coating Equipment Dipping Coating Equipment Film Coating Equipment Phosphatizing Coating Equipment Plasma Coating Equipment Hardface Welding Coating Equipment Spray Painting Booth Deburring Equipment Electroplating Equipment Grinding Equipment Honing Equipment Lapping Equipment Shot Peening Equipment Superfinishing/Polishing Equipment Dies and Molds Dies

41 35 13.23	Rotary Dies
	Rule Dies
	Molds
36 00	Assembly and Testing Equipment
41 36 13	Applicators
41 36 13.13	Adhesive Applicators
41 36 13.16	Lubricant Applicators
	Sealer Applicators
	Fixtures and Jigs
	Joining Equipment
	Adhesive Joining Equipment
	Arc-Welding Equipment
	Brazing Equipment
	Resistance-Welding Equipment Riveting Equipment
	Sintering Equipment
	Soldering Equipment
	Cutting Equipment
	Cutting Torches
	High-Pressure Water Cutting Equipment
41 36 23.19	Laser Cutting Equipment
41 36 23.23	Plasma Cutting Equipment
41 36 26	Process Tools
41 36 26.13	Air Process Tools
41 36 26.16	Electric Process Tools
	Hydraulic Process Tools
	Manual Process Tools
	Manufacturing Measurement and Testing Equipment
	Gages, Rules, and Blocks
	Penetrant Measurement and Testing Equipment
	Laser Measurement and Testing Equipment
	Magnaflux Measurement and Testing Equipment Optical Comparators
	Profilometers
	Radiograph Measurement and Testing Equipment
	Surface Tables
41 36 29.39	Ultrasonic Measurement and Testing Equipment
41 36 29.43	Test Weigh Scales
40 00	Container Processing and Packaging
41 00	Container Filling and Sealing
41 41 13	Bulk Container Fillers/Packers
41 41 16	Container Cappers
41 41 19	Container Fillers
41 41 19.13	Bag Fillers
41 41 19.16	Box Fillers
41 41 19.19	Bottle Fillers
41 41 23	Container Sealers
42 00	Container Packing Equipment
41 42 13	Box Packing Equipment
41 42 13.13	Box Makers
41 42 13.16	Box Packers
41 42 16	Bulk Material Loaders
41 42 16.13	Container Bulk Material Loaders
	41 35 13.26 41 35 33 36 00 41 36 13.13 41 36 13.16 41 36 13.19 41 36 13.19 41 36 19.13 41 36 19.16 41 36 19.23 41 36 19.29 41 36 19.29 41 36 19.29 41 36 23.13 41 36 23.13 41 36 23.16 41 36 23.19 41 36 23.23 41 36 26.16 41 36 26.13 41 36 26.16 41 36 26.19 41 36 29.19 41 36 29.29 41 36 29.33 41 36 29.29 41 36 29.31 41 36 29.29 41 36 29.33 41 36 29.36 41 36 29.39 41 36 29.31 41 36 29.39 41 36 29.39 41 36 29.39 41 36 29.39 41 36 29.39 41 36 29.39 41 36 29.39 41 36 29.39 41 36 29.39 41 36 29.39 41 36 29.31

41 42 16.23	Truck Bulk Material Loaders
41 42 16.26 41 42 16.29	Railcar Bulk Material Loaders Ship Bulk Material Loaders
41 42 16.23	Barge Bulk Material Loaders
41 42 19	Carton Packers
41 42 23	Carton Sealers
41 42 26	Carton Shrink Wrappers
41 42 29	Carton Stackers
41 43 00	Shipping Packaging
41 43 13	Banding/Strapping Equipment
41 43 16	Barcode Equipment
41 43 16.13	Barcode Readers
41 43 16.16	Barcode Printers
41 43 19	Labeling Equipment
41 43 23	Pallet Stacking/Wrapping Equipment
41 50 00	Material Storage
41 51 00	Automatic Material Storage
41 51 13	Automatic Storage/Automatic Retrieval Systems
41 52 00	Bulk Material Storage
41 52 16.13	Concrete Flat-Bottom Silos
41 52 16.16	Concrete Masonry Flat-Bottom Silos
41 52 16.23	Concrete Cone-Bottom Silos
41 52 16.26	Concrete Masonry Cone-Bottom Silos
41 52 16.29 41 52 19	Steel Cone-Bottom Silos Rulk Materials Storage Tanks
41 52 19	Bulk Materials Storage Tanks Stationary Bulk Materials Storage Tanks
41 52 19.33	Mobile Bulk Materials Storage Tanks
41 52 41	Pneumatic, Block-Distributed Materials Fluidizing System for Flat-Bottom
	Bins and Silos
41 52 43	Aerated Trough Materials Fluidizing System for Flat-Bottom Bins and Silos
41 52 46	Pad-Mounted Aerated Disc Materials Fluidizing System for Cone-Bottom
	Bins and Silos
41 53 00	Storage Equipment and Systems
41 53 13	Storage Cabinets
41 53 16	Container Storage Systems
41 53 19	Flat Files
41 53 23	Storage Racks
41 53 23.13	Mobile Storage Racks
41 53 26	Mezzanine Storage Systems
41 60 00	Mobile Plant Equipment
41 61 00	Mobile Earth Moving Equipment
41 61 13	Backhoes
41 61 16	Bulldozers
41 61 19	Compactors
41 61 23	Excavators
41 61 26	Graders
41 61 29	Payloaders
41 61 33	Trenchers
41 62 00	Trucks

	41 62 13	Cement Mixer Trucks
	41 62 16	Dump Trucks
	41 62 19	Flatbed Trucks
	41 62 23	Forklift Trucks
	41 62 26	Pickup Trucks
	41 62 29	Tank Trucks
41	63 00	General Vehicles
	41 63 13	Bicycles
	41 63 16	Carts
	41 63 19	Maintenance Vehicles
	41 63 23 41 63 26	Utility Vehicles Vans
	41 63 29	Wagons
11	64 00	-
41		Rail Vehicles
	41 64 13 41 64 13.13	Locomotives Diesel Locomotives
	41 64 13.23	Electric Locomotives
	41 64 16	Mobile Railcar Movers
41	65 00	Mobile Support Equipment
	41 65 13	Mobile Air Compressors
	41 65 16	Mobile Generators
	41 65 19	Mobile Welders
41	66 00	Miscellaneous Mobile Equipment
	41 66 13	Mobile Boring and Drilling Rigs
	41 66 16	Mobile Lifts and Cherrypickers
	41 66 19	Mobile Paving Equipment
	41 66 23	Mobile Sweepers/Vacuums
41	67 00	Plant Maintenance Equipment
	41 67 13	Plant Lube Oil System
	41 67 16	Plant Fall Protection Equipment
	41 67 19	Plant Safety Equipment
	41 67 23	Plant Maintenance Tools
	41 67 26	Plant Maintenance Washing Equipment
42	2 00 00	Process Heating, Cooling, and Drying
		Equipment
42	01 00	Operation and Maintenance of Process Heating,
		Cooling, and Drying Equipment
	42 01 10	Operation and Maintenance of Process Heating Equipment
	42 01 20	Operation and Maintenance of Process Cooling Equipment
	42 01 30	Operation and Maintenance of Process Drying Equipment
42	05 00	Common Work Results for Process Heating, Cooling,
	00 00	and Drying Equipment
	42 05 05	Selective Demolition for Process Heating, Cooling, and Drying Equipment
42	06 00	
42	00 00	Schedules for Process Heating, Cooling, and Drying
	40.00.45	Equipment
	42 06 10	Schedules for Process Heating Equipment

42 06 20	Schedules for Process Cooling Equipment
42 06 30	Schedules for Process Drying Equipment
42 08 00	Commissioning of Process Heating, Cooling, and
	Drying Equipment
42 08 10	Commissioning of Heating Equipment
42 08 20	Commissioning of Cooling Equipment
42 08 30	Commissioning of Drying Equipment
42 10 00	Process Heating Equipment
42 11 00	Process Boilers
42 11 13	Low-Pressure Process Boilers
42 11 16	Intermediate-Pressure Process Boilers
42 11 19	High-Pressure Process Boilers
42 11 23	Specialty Process Boilers
42 12 00	Process Heaters
42 12 13	Electric Process Heaters
42 12 16	Fuel-Fired Process Heaters
42 12 19	Thermoelectric Process Heaters
42 12 23	Solar Process Heaters
42 12 26	Specialty Process Heaters
42 13 00	Industrial Heat Exchangers and Recuperators
42 13 13	Industrial Gas-to-Gas Heat Exchangers
42 13 16	Industrial Liquid-to-Gas/Gas-to-Liquid Heat Exchangers
42 13 19	Industrial Liquid-to-Liquid Heat Exchangers
42 13 23	Industrial Gas Radiation Heat Exchangers
42 13 26	Industrial Solar Radiation Heat Exchangers
42 14 00	Industrial Furnaces
42 14 13	Annealing Furnaces
42 14 16	Atmosphere Generators
42 14 19	Industrial Baking Furnaces
42 14 23	Industrial Brazing Furnaces
42 14 26 42 14 29	Industrial Calcining Furnaces
42 14 29	Industrial Heat-Treating Furnaces Industrial Melting Furnaces
42 14 33.13	Ceramics and Glass Melting Furnaces
42 14 33.16	Ferrous Melting Furnaces
42 14 33.19	Non-Ferrous Melting Furnaces
42 14 36	Primary Refining Furnaces
42 14 43	Reactor Furnaces
42 14 46	Industrial Reheat Furnaces
42 14 53	Industrial Sintering Furnaces
42 14 56	Industrial Vacuum Furnaces
42 15 00	Industrial Ovens
42 15 13	Industrial Drying Ovens
42 15 16	Industrial Curing Ovens
42 15 19	Industrial Specialty Ovens
42 20 00	Process Cooling Equipment
42 21 00	Process Cooling Towers
42 21 13	Open-Circuit Process Cooling Towers
	in the contract of the contrac

42 21 16	Closed-Circuit Process Cooling Towers	
42 22 00	Process Chillers and Coolers	
42 22 13	Centrifugal Process Chillers and Coolers	
42 22 16	Reciprocating Process Chillers and Coolers	
42 22 19	Refrigerant Process Chillers and Coolers	
42 22 23 Rotary Process Chillers and Coolers		
42 22 26	Thermoelectric Process Chillers and Coolers	
42 23 00	Process Condensers and Evaporators	
42 23 13	Process Condensers	
42 23 16	Process Cooling Evaporators	
42 23 19	Process Humidifiers	
42 30 00	Process Drying Equipment	
42 31 00	Gas Dryers and Dehumidifiers	
42 31 13	Drying Evaporators	
42 31 16	Desiccant Equipment	
42 31 19	Regenerative Dryers	
42 31 23	Refrigerant Dryers	
42 32 00	Material Dryers	
42 32 13	Centrifugal Material Dryers	
42 32 16	Conveyor Material Dryers	
42 32 19	Flash Material Dryers	
42 32 23	Fluid-Bed Material Dryers	
42 32 26	Material Roasters	
42 32 29	Rotary-Kiln Material Dryers	
42 32 33 Spray Material Dryers		
42 32 36	·	
42 32 39 42 32 43	Vacuum Material Dryers	
	Specialty Material Dryers	
43 00 00	Process Gas and Liquid Handling,	
	Purification, and Storage Equipment	
43 01 00	Operation and Maintenance of Process Gas and Liquid	
	Handling, Purification, and Storage Equipment	
43 01 10	Operation and Maintenance of Gas Handling Equipment	
43 01 10.13	Gas Blowers Maintenance and Rehabilitation	
43 01 10.16	Gas Compressors Maintenance and Rehabilitation	
43 01 20	Operation and Maintenance of Liquid Handling Equipment	
43 01 20.13 43 01 20.16	Liquid Pumps Maintenance and Rehabilitation Liquid Process Equipment Maintenance and Rehabilitation	
43 01 30	Operation and Maintenance of Gas and Liquid Hi-Purification Equipment	
43 01 40	Operation and Maintenance of Gas and Liquid Storage	
43 01 40.13	Non-pressurized Tanks Cleaning, Maintenance, and Rehabilitation	
43 01 40.16	Pressurized Tanks Cleaning, Maintenance, and Rehabilitation	
43 05 00	Common Work Results for Process Gas and Liquid	
	Handling, Purification, and Storage Equipment	
43 05 05	Selective Demolition for Process Gas and Liquid Handling, Purification, and Storage Equipment.	
43 05 10	Common Work Results for Gas Handling Equipment	

43	3 05 20	Common Work Results for Liquid Handling Equipment
43	3 05 30	Common Work Results for Gas and Liquid Hi-Purification Equipment
43	3 05 40	Common Work Results for Gas and Liquid Storage
43 06	00	Schedules for Process Gas and Liquid Handling,
		Purification, and Storage Equipment
43	3 06 10	Schedules for Gas Handling Equipment
43	3 06 20	Schedules for Liquid Handling Equipment
43	3 06 30	Schedules for Gas and Liquid Hi-Purification Equipment
43	3 06 40	Schedules for Gas and Liquid Storage
43 08	00	Commissioning of Process Gas and Liquid Handling,
		Purification, and Storage Equipment
43	3 08 10	Commissioning of Gas Handling Equipment
43	3 08 20	Commissioning of Liquid Handling Equipment
43	3 08 30	Commissioning of Gas and Liquid Purification Equipment
43	3 08 40	Commissioning of Gas and Liquid Storage
43 1	0 00	Gas Handling Equipment
43 11	00	Gas Fans, Blowers, Pumps and Boosters
43	3 11 11	Direct Drive Single Stage Centrifugal Blowers
43	3 11 12	Integrally Geared Single Stage Centrifugal Blowers
43	3 11 13	Separately Geared Single Stage Centrifugal Blowers
43	3 11 14	Direct Drive Integral Shaft Single Stage Centrifugal Blowers
	3 11 17	Horizontally Split Multistage Centrifugal Blowers
	3 11 18	Vertically Split Multistage Centrifugal Blowers
	3 11 19	Centrifugal Fans
	3 11 23	Axial Blowers
	3 11 26	Axial Fans
	3 11 31 3 11 33	Rotary Leba Blowers
	3 11 34	Rotary Lobe Blowers Regenerative Rotary Blowers
	3 11 3 4 3 11 36	Rotary Vane Blowers
	3 11 41	Gas-handling Venturi Jet Pumps
	3 11 43	Gas-handling Vacuum Pumps
	3 11 46	Gas Boosters
43 12		Gas Compressors
	3 12 11	Centrifugal Compressors
43	3 12 13	Diagonal or Mixed-flow Compressors
43	3 12 16	Axial-flow Compressors
43	3 12 33	Single-acting Reciprocating Compressors
	3 12 34	Double-acting Reciprocating Compressors
	3 12 37	Diaphragm Reciprocating Compressors
	3 12 51	Rotary Screw Compressors
	3 12 53	Rotary Vane Compressors
	3 12 56	Rotary Liquid-ring Compressors
	3 12 57	Rotary Scroll Compressors
43 13		Gas Process Equipment
	3 13 13	Gas Blenders
	3 13 19	Gas Mixers
43	3 13 23	Gas Pressure Regulators

43 13	•	paration Equipment
43 13		hydration Equipment
43 13		ed Gas Separation and Dehydration Equipment
43 13		covery and Condensing Equipment
43 13		as Burner System
43 13		itrol and Safety Equipment
43 15 00		ss Air and Gas Filters
43 15	13 Blower In	ntake and Turbine Air Filters
43 15 <i>1</i>		
	13.16 Static Fin	
		PA Filters
	13.23 Pulse Filt	
43 15		
43 15		
43 15	0	nperature Air Filters
43 15 43 15 7		application Air Filters
43 15 7		พ่อเล nt Washable Filters
43 15 7		Air Filters
43 15		
43 15	ū	c Roll-type Air Filters
43 15		Il Media for Air and Gas Filters
43 20 0		d Handling Equipment
43 22 00	•	Process Equipment
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43 22 43 22	•	eration Devices
43 22		•
43 22	•	
43 22	•	entrifuges
43 22	•	eaerators
43 22		andling Liquid Process Equipment
43 22	•	mulsifiers
43 22	•	vaporators
43 22	•	rocess Mixers
43 22	•	rocess Pressure Regulators
43 22	•	eparation Towers
43 22	-	eigh Systems
43 22	-	rease Receiving and Dewatering Systems
43 22	-	• • • • • • • • • • • • • • • • • • • •
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43 22	· ·	omogenizers
43 22	•	
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43 23 00	•	
		ocation Liquid Pumps
43 23 43 23		g Horizontal Centrifugal Pumps g Flexibly-coupled Horizontal Axial Flow Centrifugal Pumps
43 23 43 23 ²		g Flexibly-coupled Horizontal Axial Flow Centifiugal Pumps n Flexibly-coupled Horizontal Frame-mounted Centrifugal Pumps

43 23 13.17	Overhung Flexibly-coupled Horizontal Foot-mounted Centrifugal Pumps
43 23 13.19	Overhung Flexibly-coupled Horizontal Foot-mounted Self-priming Centrifugal
	Pumps
43 23 13.21	Overhung Flexibly-coupled Horizontal Centerline-mounted Centrifugal Pumps
43 23 13.23	Overhung Flexibly-coupled, Magnetic Drive, Sealless Horizontal Centrifugal
	Pumps
43 23 13.24	Overhung Close-coupled High-speed Integral Gear Centrifugal Pumps
43 23 13.27	Overhung Close-coupled Horizontal Centrifugal Pumps
43 23 13.29	Overhung Close-coupled Sealless with Canned Motor Horizontal Centrifugal
	Pumps
43 23 21	Between-Bearings Impeller Centrifugal Pumps
43 23 21.13	Between-bearings Impeller, One- and Two-stage Axially-split Centrifugal Pumps
43 23 21.14	Between-bearings Impeller, One- and Two-stage, Radially-split Centrifugal Pumps
43 23 21.17	Between-bearings Impeller, Multiple-stage, Axially-split Centrifugal Pumps
43 23 21.19	Between-bearings Impeller, Multiple-stage, Radially-split Centrifugal Pumps
43 23 21.21	Between-bearings Impeller, Multiple-stage, Radially-split, Single Casing
	Centrifugal Pumps
43 23 21.23	Between-bearings Impeller, Multiple-stage, Radially-split, Double Casing
	Centrifugal Pumps
43 23 31	Vertical Centrifugal Pumps
43 23 31.13	Overhung Flexibly-coupled Vertical Centrifugal Pumps
43 23 31.14	Overhung Flexibly-coupled Vertical Inline Centrifugal Pumps
43 23 31.17	Overhung Flexibly-coupled Vertical End-suction Centrifugal Pumps
43 23 31.19	Overhung Flexibly-coupled, Magnetic Drive, Sealless Vertical Centrifugal Pumps
43 23 31.21	Overhung Close-coupled Vertical Inline Centrifugal Pumps
43 23 31.23	Overhung Close-coupled Vertical End Suction Centrifugal Pumps
43 23 31.24	Overhung Close-coupled Sealless with Canned Motor Vertical Centrifugal Pumps
43 23 31.27	Overhung Rigidly-coupled Vertical Inline Centrifugal Pumps
43 23 31.29	Overhung Close-coupled Vertical Centrifugal Pumps
43 23 51	Vane Pumps
43 23 53	Piston Pumps
43 23 53.13	Piston Axial Rotary Pumps
43 23 53.23	Piston Radial Rotary Pumps
43 23 53.33	Circumferential Single-Piston Rotary Pumps
43 23 53.36	Circumferential Multiple-Piston Rotary Pumps
43 23 54	Flexible Member Pumps
43 23 54.13	Flexible Tube Rotary Pumps
43 23 54.23	Flexible Vane Rotary Pumps
43 23 54.33	Flexible Liner Rotary Pumps
43 23 56	Gear Pumps
43 23 56.13	External Gear Rotary Pumps
43 23 56.23	Internal Gear Rotary Pumps
43 23 57	Progressing Cavity Pumps
43 23 58	Lobe Pumps
43 23 58.13	Single-Lobe Rotary Pumps
43 23 58.23	Multiple-Lobe Rotary Pumps
43 23 59	Screw Pumps
43 23 59.13	Single-Screw Rotary Pumps
43 23 59.23	Multiple-Screw Rotary Pumps
43 23 71	Air-Operated Diaphragm Reciprocating Pumps
43 23 71.13	Air-Operated Diaphragm Simplex Single-Acting Reciprocating Pumps
43 23 71.23	Air-Operated Diaphragm Simplex Double-Acting Reciprocating Pumps
43 23 71.33	Air-Operated Diaphragm Duplex Single-acting Reciprocating Pumps
43 23 71.43	Air-Operated Diaphragm Duplex Double-acting Reciprocating Pumps
43 23 72	Air-Operated Bellows Reciprocating Pumps

43 23 72.13	Air-Operated Bellows Simplex Single-Acting Reciprocating Pumps
43 23 72.23	Air-Operated Bellows Simplex Double-Acting Reciprocating Pumps
43 23 72.33	Air-Operated Bellows Duplex Single-Acting Reciprocating Pumps
43 23 72.43	Air-Operated Bellows Duplex Double-Acting Reciprocating Pumps
43 23 73	Air-Operated Piston Reciprocating Pumps
43 23 73.13	Air-Operated Piston Simplex Single-Acting Reciprocating Pumps
43 23 73.23	Air-Operated Piston Simplex Double-Acting Reciprocating Pumps
43 23 73.33	Air-Operated Piston Duplex Single-Acting Reciprocating Pumps
43 23 73.43	Air-Operated Piston Duplex Double-Acting Reciprocating Pumps
43 23 74	Steam Horizontal Reciprocating Pumps
43 23 74.13	Steam Horizontal Double-Acting Piston Simplex Reciprocating Pumps
43 23 74.23	Steam Horizontal Double-Acting Piston Duplex Reciprocating Pumps
43 23 74.33	Steam Horizontal Double-Acting Plunger Simplex Reciprocating Pumps
43 23 74.43	Steam Horizontal Double-Acting Plunger Duplex Reciprocating Pumps
43 23 75	Steam Vertical Reciprocating Pumps
43 23 75.13	Steam Vertical Double-Acting Piston Simplex Reciprocating Pumps
43 23 75.23	Steam Vertical Double-Acting Piston Duplex Reciprocating Pumps
43 23 75.33	Steam Vertical Double-Acting Plunger Simplex Reciprocating Pumps
43 23 75.43	Steam Vertical Double-acting Plunger Duplex Reciprocating Pumps
43 23 76	Power Horizontal Reciprocating Pumps
43 23 76.11	Power Horizontal Single-Acting Piston Simplex Reciprocating Pumps
43 23 76.12 43 23 76.13	Power Horizontal Single-Acting Piston Duplex Reciprocating Pumps Power Horizontal Single-Acting Piston Multiplex Reciprocating Pumps
43 23 76.13	Power Horizontal Single-Acting Plunger Simplex Reciprocating Pumps
43 23 76.22	Power Horizontal Single-Acting Plunger Duplex Reciprocating Pumps
43 23 76.23	Power Horizontal Single-Acting Plunger Multiplex Reciprocating Pumps
43 23 76.31	Power Horizontal Double-Acting Piston Simplex Reciprocating Pumps
43 23 76.32	Power Horizontal Double-Acting Piston Duplex Reciprocating Pumps
43 23 76.33	Power Horizontal Double-Acting Piston Multiplex Reciprocating Pumps
43 23 76.41	Power Horizontal Double-Acting Plunger Simplex Reciprocating Pumps
43 23 76.42	Power Horizontal Double-Acting Plunger Duplex Reciprocating Pumps
43 23 76.43	Power Horizontal Double-Acting Plunger Multiplex Reciprocating Pumps
43 23 77	Power Vertical Reciprocating Pumps
43 23 77.11	Power Vertical Single-Acting Piston Simplex Reciprocating Pumps
43 23 77.12	Power Vertical Single-Acting Piston Duplex Reciprocating Pumps
43 23 77.13	Power Vertical Single-Acting Piston Multiplex Reciprocating Pumps
43 23 77.21	Power Vertical Single-Acting Plunger Simplex Reciprocating Pumps
43 23 77.22	Power Vertical Single-Acting Plunger Duplex Reciprocating Pumps
43 23 77.23 43 23 77.31	Power Vertical Single-Acting Plunger Multiplex Reciprocating Pumps Power Vertical Double-Acting Piston Simplex Reciprocating Pumps
43 23 77.31	Power Vertical Double-Acting Piston Simplex Reciprocating Pumps Power Vertical Double-Acting Piston Duplex Reciprocating Pumps
43 23 77.32	Power Vertical Double-Acting Piston Multiplex Reciprocating Pumps
43 23 77.41	Power Vertical Double-Acting Plunger Simplex Reciprocating Pumps
43 23 77.42	Power Vertical Double-Acting Plunger Duplex Reciprocating Pumps
43 23 77.43	Power Vertical Double-Acting Plunger Multiplex Reciprocating Pumps
43 23 78	Controlled Volume Horizontal Reciprocating Pumps
43 23 78.11	Controlled Volume Horizontal Packed Plunger Simplex Reciprocating Pumps
43 23 78.12	Controlled Volume Horizontal Packed Plunger Duplex Reciprocating Pumps
43 23 78.13	Controlled Volume Horizontal Packed Plunger Multiplex Reciprocating Pumps
43 23 78.21	Controlled Volume Horizontal Packed Piston Simplex Reciprocating Pumps
43 23 78.22	Controlled Volume Horizontal Packed Piston Duplex Reciprocating Pumps
43 23 78.23	Controlled Volume Horizontal Packed Piston Multiplex Reciprocating Pumps
43 23 78.31	Controlled Volume Horizontal Mechanically-Coupled Diaphragm Simplex
	Reciprocating Pumps

	43 23 78.32	Controlled Volume Horizontal Mechanically-Coupled Diaphragm Duplex
	43 23 78.33	Reciprocating Pumps Controlled Volume Horizontal Mechanically-Coupled Diaphragm Multiplex
	43 23 78.34	Reciprocating Pumps Controlled Volume Horizontal Hydraulically-Coupled Diaphragm Simplex
	43 23 70.34	Reciprocating Pumps
	43 23 78.35	Controlled Volume Horizontal Hydraulically-Coupled Diaphragm Duplex
	43 23 78.36	Reciprocating Pumps Controlled Volume Horizontal Hydraulically-Coupled Diaphragm Multiplex
	43 23 76.30	Reciprocating Pumps
	43 23 79	Controlled Volume Vertical Reciprocating Pumps
	43 23 79.11	Controlled Volume Vertical Packed Plunger Simplex Reciprocating Pumps
	43 23 79.12	Controlled Volume Vertical Packed Plunger Duplex Reciprocating Pumps
	43 23 79.13	Controlled Volume Vertical Packed Plunger Multiplex Reciprocating Pumps
	43 23 79.21	Controlled Volume Vertical Packed Piston Simplex Reciprocating Pumps
	43 23 79.22	Controlled Volume Vertical Packed Piston Duplex Reciprocating Pumps
	43 23 79.23	Controlled Volume Vertical Packed Piston Multiplex Reciprocating Pumps
	43 23 79.31	Controlled Volume Vertical Mechanically-Coupled Diaphragm Simplex Reciprocating Pumps
	43 23 79.32	Controlled Volume Vertical Mechanically-Coupled Diaphragm Duplex
		Reciprocating Pumps
	43 23 79.33	Controlled Volume Vertical Mechanically-Coupled Diaphragm Multiplex Reciprocating Pumps
	43 23 79.34	Controlled Volume Vertical Hydraulically-Coupled Diaphragm Simplex Reciprocating Pumps
	43 23 79.35	Controlled Volume Vertical Hydraulically-Coupled Diaphragm Duplex
	43 23 79.36	Reciprocating Pumps Controlled Volume Vertical Hydraulically-Coupled Diaphragm Multiplex
	45 25 7 8.50	CUITIONEA VOIGINE VEITICALLIVALAUNCANVECUDIEA DIADINAUN IVIGILIDEX
		Reciprocating Pumps
43 2	24 00	Reciprocating Pumps
43 2		Reciprocating Pumps Suspended Liquid Pumps
43 2	24 00 43 24 11 43 24 13	Reciprocating Pumps
43 2	43 24 11 43 24 13	Reciprocating Pumps Suspended Liquid Pumps Vertically Suspended Single-Casing Submersible Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Centrifugal Pumps
43 2	43 24 11	Reciprocating Pumps Suspended Liquid Pumps Vertically Suspended Single-Casing Submersible Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Diffuser
43 2	43 24 11 43 24 13	Reciprocating Pumps Suspended Liquid Pumps Vertically Suspended Single-Casing Submersible Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Diffuser Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Volute Centrifugal
43 2	43 24 11 43 24 13 43 24 13.13 43 24 13.23	Reciprocating Pumps Suspended Liquid Pumps Vertically Suspended Single-Casing Submersible Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Diffuser Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Volute Centrifugal Pumps
43 2	43 24 11 43 24 13 43 24 13.13 43 24 13.23 43 24 13.33	Reciprocating Pumps Suspended Liquid Pumps Vertically Suspended Single-Casing Submersible Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Diffuser Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Volute Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Axial Flow Centrifugal Pumps
43 2	43 24 11 43 24 13 43 24 13.13 43 24 13.23	Suspended Liquid Pumps Vertically Suspended Single-Casing Submersible Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Diffuser Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Volute Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Axial Flow Centrifugal Pumps Vertically Suspended Single-casing Separate Discharge (Sump)
43 2	43 24 11 43 24 13 43 24 13.13 43 24 13.23 43 24 13.33 43 24 16	Suspended Liquid Pumps Vertically Suspended Single-Casing Submersible Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Diffuser Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Volute Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Axial Flow Centrifugal Pumps Vertically Suspended Single-casing Separate Discharge (Sump) Centrifugal Pumps
43 2	43 24 11 43 24 13 43 24 13.13 43 24 13.23 43 24 13.33	Suspended Liquid Pumps Vertically Suspended Single-Casing Submersible Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Diffuser Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Volute Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Axial Flow Centrifugal Pumps Vertically Suspended Single-casing Separate Discharge (Sump)
43 2	43 24 11 43 24 13 43 24 13.13 43 24 13.23 43 24 13.33 43 24 16	Suspended Liquid Pumps Vertically Suspended Single-Casing Submersible Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Diffuser Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Volute Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Axial Flow Centrifugal Pumps Vertically Suspended Single-casing Separate Discharge (Sump) Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Line Shaft Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Cantilever
43 2	43 24 11 43 24 13 43 24 13.13 43 24 13.23 43 24 13.33 43 24 16 43 24 16.13 43 24 16.23	Suspended Liquid Pumps Vertically Suspended Single-Casing Submersible Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Diffuser Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Volute Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Axial Flow Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Line Shaft Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Cantilever Centrifugal Pumps
43 2	43 24 11 43 24 13 43 24 13.13 43 24 13.23 43 24 13.33 43 24 16 43 24 16.13 43 24 16.23 43 24 21	Suspended Liquid Pumps Vertically Suspended Single-Casing Submersible Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Diffuser Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Volute Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Axial Flow Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Line Shaft Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Cantilever Centrifugal Pumps Vertically Suspended Double-Casing Centrifugal Pumps
43 2	43 24 11 43 24 13 43 24 13.13 43 24 13.23 43 24 13.33 43 24 16 43 24 16.13 43 24 16.23 43 24 21 43 24 21.13	Suspended Liquid Pumps Vertically Suspended Single-Casing Submersible Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Diffuser Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Volute Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Axial Flow Centrifugal Pumps Vertically Suspended Single-casing Separate Discharge (Sump) Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Line Shaft Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Cantilever Centrifugal Pumps Vertically Suspended Double-Casing Centrifugal Pumps Vertically Suspended Double-Casing Diffuser Centrifugal Pumps
43 2	43 24 11 43 24 13 43 24 13.13 43 24 13.23 43 24 13.33 43 24 16 43 24 16.13 43 24 16.23 43 24 21 43 24 21.13 43 24 21.23	Reciprocating Pumps Suspended Liquid Pumps Vertically Suspended Single-Casing Submersible Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Diffuser Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Volute Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Axial Flow Centrifugal Pumps Vertically Suspended Single-casing Separate Discharge (Sump) Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Line Shaft Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Cantilever Centrifugal Pumps Vertically Suspended Double-Casing Centrifugal Pumps Vertically Suspended Double-Casing Diffuser Centrifugal Pumps Vertically Suspended Double-Casing Volute Centrifugal Pumps
43 2	43 24 11 43 24 13 43 24 13.13 43 24 13.23 43 24 13.33 43 24 16 43 24 16.13 43 24 16.23 43 24 21 43 24 21.13 43 24 21.23 43 24 26	Suspended Liquid Pumps Vertically Suspended Single-Casing Submersible Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Diffuser Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Volute Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Axial Flow Centrifugal Pumps Vertically Suspended Single-casing Separate Discharge (Sump) Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Line Shaft Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Cantilever Centrifugal Pumps Vertically Suspended Double-Casing Centrifugal Pumps Vertically Suspended Double-Casing Diffuser Centrifugal Pumps Vertically Suspended Double-Casing Volute Centrifugal Pumps Vertically Suspended Inline Casing Diffuser Centrifugal Pumps
43 2	43 24 11 43 24 13 43 24 13.13 43 24 13.23 43 24 13.33 43 24 16 43 24 16.13 43 24 16.23 43 24 21 43 24 21.13 43 24 21.23 43 24 21.23 43 24 26 43 24 41	Reciprocating Pumps Suspended Liquid Pumps Vertically Suspended Single-Casing Submersible Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Diffuser Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Volute Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Axial Flow Centrifugal Pumps Vertically Suspended Single-casing Separate Discharge (Sump) Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Line Shaft Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Cantilever Centrifugal Pumps Vertically Suspended Double-Casing Centrifugal Pumps Vertically Suspended Double-Casing Diffuser Centrifugal Pumps Vertically Suspended Inline Casing Diffuser Centrifugal Pumps Vertically Suspended Inline Casing Diffuser Centrifugal Pumps Vertically Suspended Inline Casing Diffuser Centrifugal Pumps
43 2	43 24 11 43 24 13 43 24 13.13 43 24 13.23 43 24 13.33 43 24 16 43 24 16.13 43 24 16.23 43 24 21 43 24 21.13 43 24 21.23 43 24 21.23 43 24 24 43 24 41.3	Suspended Liquid Pumps Vertically Suspended Single-Casing Submersible Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Diffuser Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Volute Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Axial Flow Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Axial Flow Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Line Shaft Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Cantilever Centrifugal Pumps Vertically Suspended Double-Casing Centrifugal Pumps Vertically Suspended Double-Casing Diffuser Centrifugal Pumps Vertically Suspended Inline Casing Diffuser Screw-type Pumps Positive-Displacement Inclined Open Archimedes Screw-type Pumps
	43 24 11 43 24 13 43 24 13.13 43 24 13.23 43 24 13.33 43 24 16 43 24 16.13 43 24 16.23 43 24 21 43 24 21.13 43 24 21.23 43 24 21.23 43 24 21.23 43 24 41.13 43 24 41.13 43 24 41.23	Suspended Liquid Pumps Vertically Suspended Single-Casing Submersible Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Diffuser Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Volute Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Axial Flow Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Line Shaft Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Cantilever Centrifugal Pumps Vertically Suspended Double-Casing Centrifugal Pumps Vertically Suspended Double-Casing Diffuser Centrifugal Pumps Vertically Suspended Double-Casing Volute Centrifugal Pumps Vertically Suspended Inline Casing Diffuser Centrifugal Pumps Vertically Suspended Inline Casing Diffuser Screw-type Pumps Positive-Displacement Inclined Open Archimedes Screw-type Pumps Positive-Displacement Inclined Closed-casing Archimedes Screw-type Pumps
	43 24 11 43 24 13 43 24 13.13 43 24 13.23 43 24 13.33 43 24 16 43 24 16.13 43 24 16.23 43 24 21.13 43 24 21.13 43 24 21.23 43 24 21.23 43 24 41.13 43 24 41.13 43 24 41.23 25 00	Suspended Liquid Pumps Vertically Suspended Single-Casing Submersible Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Diffuser Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Volute Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Axial Flow Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Line Shaft Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Cantilever Centrifugal Pumps Vertically Suspended Double-Casing Centrifugal Pumps Vertically Suspended Double-Casing Diffuser Centrifugal Pumps Vertically Suspended Double-Casing Volute Centrifugal Pumps Vertically Suspended Inline Casing Diffuser Screw-type Pumps Positive-Displacement Inclined Open Archimedes Screw-type Pumps Positive-Displacement Inclined Closed-casing Archimedes Screw-type Pumps Submersible/Immersible Liquid Pumps
	43 24 11 43 24 13 43 24 13.13 43 24 13.23 43 24 13.33 43 24 16 43 24 16.13 43 24 16.23 43 24 21 43 24 21.13 43 24 21.23 43 24 21.23 43 24 21.23 43 24 41.13 43 24 41.13 43 24 41.23	Suspended Liquid Pumps Vertically Suspended Single-Casing Submersible Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Diffuser Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Volute Centrifugal Pumps Vertically Suspended Single-Casing Discharge-through-column Axial Flow Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Line Shaft Centrifugal Pumps Vertically Suspended Single-Casing Separate Discharge (Sump) Cantilever Centrifugal Pumps Vertically Suspended Double-Casing Centrifugal Pumps Vertically Suspended Double-Casing Diffuser Centrifugal Pumps Vertically Suspended Double-Casing Volute Centrifugal Pumps Vertically Suspended Inline Casing Diffuser Centrifugal Pumps Vertically Suspended Inline Casing Diffuser Screw-type Pumps Positive-Displacement Inclined Open Archimedes Screw-type Pumps Positive-Displacement Inclined Closed-casing Archimedes Screw-type Pumps

	43 25 13.13 43 25 13.23	Overhung Close-Coupled Submersible Diffuser Centrifugal Pumps Overhung Close-Coupled Submersible Volute Centrifugal Pumps
	43 25 15.25	Positive Displacement Submersible Liquid Pumps
43	26 00	Specialized Liquid Pumps
40	43 26 13	Submersible Grinder Pumps
	43 26 30	Regenerative Centrifugal Pumps
	43 26 30.13	Overhung Impeller Regenerative Turbine Pumps
	43 26 30.21	Overhung Impeller Single-Stage Regenerative Turbine Pumps
	43 26 30.23	Overhung Impeller Two-Stage Regenerative Turbine Pumps
	43 26 30.26	Between-Bearings Impeller Regenerative Turbine Pumps
	43 26 30.27	Between-Bearings Impeller Single-Stage Regenerative Turbine Pumps
	43 26 30.29	Between-Bearings Impeller Two-Stage Regenerative Turbine Pumps
	43 26 40	Regenerative Turbine Pumps
	43 26 60	Regenerative Vacuum Pumps
	43 26 70	Rotating-Case Pumps
43	27 00	Process Liquid Filters
	43 27 13	Cyclonic Liquid Filters
	43 27 16	Centrifugal Horizontal Pressure Leaf Liquid Filters
	43 27 19	Press Liquid Filters
	43 27 23	Liquid Bag Filters
	43 27 33	Mechanically Cleaned Liquid Filters
	43 27 43	Tubular Backwashing Liquid Filters
	43 27 53	Vacuum Belt Liquid Filters
	43 27 63	Woven Media Liquid Filters
	43 27 63.13	Disc Liquid Filters
	43 27 63.23	Rotating Drum Liquid Filters
	43 27 63.33 43 27 63.43	Layer Liquid Filters Candle Liquid Filters
	43 27 63.53	Vertical Leaf Liquid Filters
	43 27 73	Nonwoven Media Liquid Filters
	43 27 73.13	Surface Liquid Filters
	43 27 73.23	Depth Liquid Filters
43	30 00	Gas and Liquid Purification Equipmen
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43	31 00	Gas and Liquid Purification Filtration Equipment
	43 31 13 43 31 13.13	Gas and Liquid Purification Filters
	43 31 13.16	Activated Carbon-Gas and Liquid Purification Filters Gas and Liquid Purification Filter Presses
	43 31 13.19	High-Purity Cartridge Gas and Liquid Purification Filters
	43 31 13.23	Membrane Diaphragm Gas and Liquid Purification Filters
	43 31 13.26	Multimedia Gas and Liquid Purification Filters
	43 31 13.29	Pretreatment Cartridge Gas and Liquid Purification Filters
	43 31 13.33	Ultrafilter Units
43	32 00	Gas and Liquid Purification Process Equipment
	43 32 13	Gas and Liquid Purification Process Beds
	43 32 13.13	Anion-Gas and Liquid Purification Process Beds
	43 32 13.16	Cation-Gas and Liquid Purification Process Beds
	43 32 23	Gas and Liquid Purification Process Clarifier Systems
	43 32 26	Gas and Liquid Purification Decarbonators
	43 32 29	Electronic Deionization Purification Units
	43 32 33	External Regeneration Systems
	43 32 36	Mixed-Bed Ion-Exchange Vessels

	43 32 39 43 32 39.13	Gas and Liquid Purification Mixed Beds Externally Regenerable Gas and Liquid Purification Mixed Beds
	43 32 39.16	In-Situ Regenerable Gas and Liquid Purification Mixed Beds
	43 32 53	Packed-Bed Ion-Exchange Vessels
	43 32 56	Reverse-Osmosis Purification Units
	43 32 59	Gas and Liquid Purification Scrubbers
	43 32 63	Ultraviolet Sterilizers
	43 32 66	Vacuum Degasifiers
	43 32 69	Chemical Feed Systems
	43 32 73	Ozonation Equipment
	43 32 76	Chlorination Equipment
43	40 00	Gas and Liquid Storage
43 4	41 00	Non-pressurized Tanks and Vessels
	43 41 11	Bolted Steel Tanks
	43 41 13	Welded Steel Tanks
	43 41 13.13	Glass-lined Welded Steel Tanks
	43 41 13.23	Rubber-lined Welded Steel Tanks
	43 41 13.33	Epoxy-lined Welded Steel Tanks
	43 41 13.43	Ceramic-lined Welded Steel Tanks
	43 41 23	Stainless Steel Tanks
	43 41 26	Aluminum Tanks
	43 41 31	Metallic Specialty Tanks
	43 41 41	Polyvinyl Chloride Tanks
	43 41 43	Polyethylene Tanks Fibergless Beinforged Plastic Tanks
	43 41 45 43 41 53	Fiberglass Reinforced Plastic Tanks Wood Stave Tanks
	43 41 63	Precast Concrete Tanks
	43 41 73	Ceramic Tanks
	43 41 83	Non-metallic Specialty Tanks
12	42 00	Pressurized Tanks and Vessels
43		
	43 42 11	Cast Iron Pressure Tanks
	43 42 13	Ductile Iron Pressure Tanks
	43 42 21 43 42 23	Welded Steel Pressure Tanks
	43 42 23	Glass-lined Steel Pressure Tanks Welded Steel Gas Storage Sphere
	43 42 20	Stainless Steel Pressure Tanks
	43 42 33	Aluminum Pressure Tanks
	43 42 41	Metallic Specialty Pressure Tanks
	43 42 53	Fiberglass Reinforced Plastic Pressure Tanks
	43 42 83	Non-metallic Specialty Pressure Tanks
44	00 00	Pollution and Waste Control
		Equipment
44 (01 00	Operation and Maintenance of Pollution and Waste
		Control Equipment
	44 01 10	Operation and Maintenance of Air Pollution Control
	44 01 20	Operation and Maintenance of Noise Pollution Control
	44 01 30	Operation and Maintenance of Odor Control Equipment
	44 01 40	Operation and Maintenance of Water Pollution Control Equipment

44 01 50	Operation and Maintenance of Solid Waste Control and Reuse
44 01 60	Operation and Maintenance of Waste Thermal Processing Equipment
44 05 00	Common Work Results for Pollution and Waste
	Control Equipment
44 05 05	Selective Demolition for Pollution and Waste Control Equipment
44 06 00	Schedules for Pollution and Waste Control Equipment
44 06 10	Schedules for Air Pollution Control
44 06 20	Schedules for Noise Pollution Control
44 06 30	Schedules for Odor Control Equipment
44 06 40	Schedules for Water Pollution Control Equipment
44 06 50	Schedules for Solid Waste Control and Reuse
44 06 60	Schedules for Waste Thermal Processing Equipment
44 08 00	Commissioning of Pollution and Waste Control
	Equipment
44 08 10	Commissioning of Air Pollution Control
44 08 20	Commissioning of Noise Pollution Control
44 08 30	Commissioning of Odor Control Equipment
44 08 40	Commissioning Water Pollution Control Equipment
44 08 50	Commissioning Solid Waste Control and Reuse
44 08 60	Commissioning of Waste Thermal Processing Equipment
44 10 00	Air Pollution Control
44 11 00	
44 11 00	Particulate Control Equipment
44 11 13	Fugitive Dust Parrier Systems
44 11 19	Fugitive Dust Barrier Systems Atmospheric Air Quality Monitoring Equipment
44 11 20	Gravitational Separators
44 11 31	Venturi Scrubbing Equipment
44 11 33	Spray Tower/Chamber Scrubbing Equipment
44 11 36	Cyclone Scrubbing Equipment
44 11 51	Pulse Jet Fabric Filtration Equipment
44 11 53	Reverse Flow Fabric Filtration Equipment
44 11 54	Shake/Deflate Fabric Filtration Equipment
44 11 56	Cartridge Filtration Equipment
44 11 59	Disposable Dry Filtration Equipment
44 11 71	Cyclone Dust Collection Equipment
44 11 73	Multicylone Dust Collection Equipment
44 11 76	Mist Elimination Equipment
44 11 93	Wet Electrostatic Precipitator Equipment
44 11 96	Dry Plate Electrostatic Precipitator Equipment
44 13 00	Gaseous Air Pollution Control Equipment
44 13 11	Spray Tower/Chamber Absorption Equipment
44 13 13	Packed Tower/Chamber Absorption Equipment
44 13 14	Tray Tower Absorption Equipment
44 13 16	Jet Bubbling Reactor Equipment
44 13 17	Venturi Absorption Equipment
44 13 20	Vacuum Extraction Systems
44 13 31	Powdered Injection Adsorption Equipment
44 13 33	Fluidized Bed Adsorption Equipment

44 13 34	Fixed Bed Adsorption Equipment
44 13 36	Rotary Bed Adsorption Equipment
44 13 39	Radial Bed Adsorption Equipment
44 13 51	Thermal Oxidation Equipment
44 13 53	Catalytic Oxidation Equipment
44 13 56	Flare Oxidation Equipment
44 13 59	Claus Sulfur Recovery Equipment
44 13 71	Thermal Reduction Equipment
44 13 73	Catalytic Reduction Equipment
44 13 76	Non-catalytic Reduction Equipment
44 13 77	Selective Non-catalytic Reduction Equipment
44 13 81	Condensation Systems
44 13 83	Contact Condensing Equipment
44 13 86	Solvent Recovery Equipment
44 13 91	Biofilter Media
44 13 93	Fixed Bed Biofilter Equipment
44 13 96	Fixed Bed Biotrickling Filter Equipment
44 13 97	Fixed Bed Bioscrubbing Equipment
44 20 00	Noise Pollution Control
44 21 00	Noise Pollution Control Equipment
44 21 13	Fixed Noise Abatement Barriers
44 21 16	Flexible Noise Abatement Barriers
44 21 19	Portable Noise Abatement Barriers
44 21 23	Noise Pollution Silencers
44 21 26	Frequency Cancellers
44 30 00	Odor Control
44 31 00	Odor Treatment Equipment
44 31 11	Wet Chemical Packed Tower Odor Control Equipment
44 31 13	Chemical Mist System Odor Control Equipment
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	ACIIVAIEG CARDON AGSORDIION OGOL CONTROL EQUIDMENT
44 31 16	Activated Carbon Adsorption Odor Control Equipment Packaged Odor Control Systems
44 31 16 44 31 19	Packaged Odor Control Systems
44 31 16	·
44 31 16 44 31 19 44 31 21	Packaged Odor Control Systems Odor Control Biofilters
44 31 16 44 31 19 44 31 21 44 31 28	Packaged Odor Control Systems Odor Control Biofilters Odor Control Biofilter Aeration Floor
44 31 16 44 31 19 44 31 21 44 31 28 44 31 29	Packaged Odor Control Systems Odor Control Biofilters Odor Control Biofilter Aeration Floor Odor Control Biofilter Media
44 31 16 44 31 19 44 31 21 44 31 28 44 31 29 44 31 31	Packaged Odor Control Systems Odor Control Biofilters Odor Control Biofilter Aeration Floor Odor Control Biofilter Media Odor Control Biotrickling Filter Equipment
44 31 16 44 31 19 44 31 21 44 31 28 44 31 29 44 31 31 44 31 33	Packaged Odor Control Systems Odor Control Biofilters Odor Control Biofilter Aeration Floor Odor Control Biofilter Media Odor Control Biotrickling Filter Equipment Odor Control Bioscrubbing Equipment
44 31 16 44 31 19 44 31 21 44 31 28 44 31 29 44 31 31 44 31 33 44 31 41	Packaged Odor Control Systems Odor Control Biofilters Odor Control Biofilter Aeration Floor Odor Control Biofilter Media Odor Control Biotrickling Filter Equipment Odor Control Bioscrubbing Equipment Odor Control Vapor Combustion Equipment
44 31 16 44 31 19 44 31 21 44 31 28 44 31 29 44 31 31 44 31 33 44 31 41 44 31 83	Packaged Odor Control Systems Odor Control Biofilters Odor Control Biofilter Aeration Floor Odor Control Biofilter Media Odor Control Biotrickling Filter Equipment Odor Control Bioscrubbing Equipment Odor Control Vapor Combustion Equipment Adjusting and Balancing Odor Control Systems Odor Dispersing and Masking/Counteracting
44 31 16 44 31 19 44 31 21 44 31 28 44 31 29 44 31 31 44 31 33 44 31 41 44 31 83	Packaged Odor Control Systems Odor Control Biofilters Odor Control Biofilter Aeration Floor Odor Control Biofilter Media Odor Control Biotrickling Filter Equipment Odor Control Bioscrubbing Equipment Odor Control Vapor Combustion Equipment Adjusting and Balancing Odor Control Systems Odor Dispersing and Masking/Counteracting Equipment
44 31 16 44 31 19 44 31 21 44 31 28 44 31 29 44 31 31 44 31 33 44 31 41 44 31 83 44 32 00	Packaged Odor Control Systems Odor Control Biofilters Odor Control Biofilter Aeration Floor Odor Control Biofilter Media Odor Control Biotrickling Filter Equipment Odor Control Bioscrubbing Equipment Odor Control Vapor Combustion Equipment Adjusting and Balancing Odor Control Systems Odor Dispersing and Masking/Counteracting
44 31 16 44 31 19 44 31 21 44 31 28 44 31 29 44 31 31 44 31 33 44 31 41 44 31 83 44 32 00	Packaged Odor Control Systems Odor Control Biofilters Odor Control Biofilter Aeration Floor Odor Control Biofilter Media Odor Control Biotrickling Filter Equipment Odor Control Bioscrubbing Equipment Odor Control Vapor Combustion Equipment Adjusting and Balancing Odor Control Systems Odor Dispersing and Masking/Counteracting Equipment Odor Dispersing Exhaust Stacks
44 31 16 44 31 19 44 31 21 44 31 28 44 31 31 44 31 33 44 31 41 44 31 83 44 32 00 44 32 13 44 32 13	Packaged Odor Control Systems Odor Control Biofilters Odor Control Biofilter Aeration Floor Odor Control Biofilter Media Odor Control Biotrickling Filter Equipment Odor Control Bioscrubbing Equipment Odor Control Vapor Combustion Equipment Adjusting and Balancing Odor Control Systems Odor Dispersing and Masking/Counteracting Equipment Odor Dispersing Exhaust Stacks Fan-equipped Odor Dispersing Exhaust Stacks
44 31 16 44 31 19 44 31 21 44 31 28 44 31 29 44 31 31 44 31 33 44 31 41 44 31 83 44 32 00 44 32 13 44 32 13 44 32 23	Packaged Odor Control Systems Odor Control Biofilters Odor Control Biofilter Aeration Floor Odor Control Biofilter Media Odor Control Biotrickling Filter Equipment Odor Control Bioscrubbing Equipment Odor Control Vapor Combustion Equipment Adjusting and Balancing Odor Control Systems Odor Dispersing and Masking/Counteracting Equipment Odor Dispersing Exhaust Stacks Fan-equipped Odor Dispersing Exhaust Stacks Odor Masking/Counteracting Equipment Water Pollution Control Equipment
44 31 16 44 31 19 44 31 21 44 31 28 44 31 29 44 31 31 44 31 33 44 31 41 44 31 83 44 32 00 44 32 13 44 32 13.13 44 32 23 44 40 00	Packaged Odor Control Systems Odor Control Biofilters Odor Control Biofilter Aeration Floor Odor Control Biofilter Media Odor Control Bioscrubbing Filter Equipment Odor Control Bioscrubbing Equipment Odor Control Vapor Combustion Equipment Adjusting and Balancing Odor Control Systems Odor Dispersing and Masking/Counteracting Equipment Odor Dispersing Exhaust Stacks Fan-equipped Odor Dispersing Exhaust Stacks Odor Masking/Counteracting Equipment Water Pollution Control Equipment Water Pollution Containment and Cleanup Equipment
44 31 16 44 31 19 44 31 21 44 31 28 44 31 31 44 31 33 44 31 41 44 31 83 44 32 00 44 32 13 44 32 13 44 32 23 44 40 00 44 41 00	Packaged Odor Control Systems Odor Control Biofilters Odor Control Biofilter Aeration Floor Odor Control Biofilter Media Odor Control Biotrickling Filter Equipment Odor Control Bioscrubbing Equipment Odor Control Vapor Combustion Equipment Adjusting and Balancing Odor Control Systems Odor Dispersing and Masking/Counteracting Equipment Odor Dispersing Exhaust Stacks Fan-equipped Odor Dispersing Exhaust Stacks Odor Masking/Counteracting Equipment Water Pollution Control Equipment

44 41 31	Spill Decks
44 41 32	Drum Containment Units
44 41 33	Containment Pallets
44 41 34	Prefabricated Spill Containment Curbing
44 41 36	Prefabricated Spill Containment Berms
44 41 37	Prefabricated Berms for Tank Containment
44 41 41	Collapsible Storage Tanks
44 50 00	Solid Waste Control and Reuse
44 51 00	Solid Waste Collection, Transfer, and Hauling
	Equipment
44 51 13	Solid Waste Portable Containers
44 51 16	Solid Waste Stationary Containers
44 51 23	Solid Waste Transfer Trailers
44 53 00	Solid Waste Processing Equipment
44 53 11	Live-floor Storage Bins
44 53 13	Refuse Cranes and Accessories
44 53 16	Solid Waste Screens
44 53 21	Car Crushers
44 53 23	Shears and Guillotines
44 53 26	Shredders and Grinders
44 53 27	Perforators
44 53 31	Bag Breakers
44 53 33	Granulators
44 53 36	Crumb Rubber Systems
44 53 39	Briquetters
44 53 41	Vibratory Table Separation Equipment
44 53 43	Ferrous Metals Separation Equipment
44 53 44	Eddy Current Separators
44 53 46	Single-stream Materials Separation Equipment
44 53 49	Ballistic Separators
44 53 51	Air Classifying Equipment
44 53 52	Air Knives
44 53 53	Optical Sorting Equipment
44 53 56	Packaged Sorting Stations
44 53 59	Packaged Reclaimer Stations
44 53 61	Solid Waste Compactors
44 53 63	Solid Waste Baling Equipment
44 53 64	Bagging Equipment
44 53 66	Wrappers
44 53 73	Solid Waste Liquid Extraction Equipment
44 55 00	Composting Equipment
44 55 11	Electromechanical Composters
44 55 13	Compost Screening Equipment
44 55 16	Compost Shredding Equipment
44 55 23	Compost Pile Turning Equipment
44 55 26	Compost Mixing and Blending Equipment
44 55 33	In-vessel Composing Equipment
44 55 43	Compost Pad System
44 55 73	Compost Liquid Extraction Equipment

44 60 00	Waste Thermal Processing Equipment
44 61 00	Waste-to-Energy Plants
44 61 13	Waste Receiving, Management, and Feed Equipment
44 61 16	Mass Burn Combustion Equipment
44 61 23	Refuse-derived Fuel Feed Equipment
44 61 26	Refuse-derived Fuel Combustion Equipment
44 61 29	Modular Combustion System Equipment
44 61 31 44 61 33	Ash Handling Equipment Post-combustion Ferrous Metals Recovery Equipment
44 61 36	Post-combustion Non-ferrous Metals Recovery Equipment
44 62 00	Fluidized Bed Combustion Equipment
44 63 00	Rotary Kiln Incinerators
44 64 00	Gasification Equipment
44 64 13	Counter-current Fixed Bed Gasification Equipment
44 64 23	Co-current Fixed Bed Gasification Equipment
44 64 33	Fluidized Bed Gasification Equipment
44 64 43	Entrained Flow Gasification Equipment
44 64 53	Plasma Arc Gasification Equipment
44 65 00	Pyrolysis Equipment
44 66 00	Hazardous Waste and Medical Waste Incinerators
44 67 00	Heat Recovery Equipment for Waste Thermal
	Processing
44 68 00	Synthesis Gas Cleanup and Handling Equipment
45 00 00	Industry-Specific Manufacturing
	Equipment
45 05 00	Common Work Results for Industry-Specific
	Manufacturing Equipment
45 05 05	Selective Demolition for Industry-Specific Manufacturing Equipment
45 08 00	Commissioning of Industry-Specific Manufacturing
	Equipment
45 11 00	Oil and Gas Extraction Equipment
45 11 01	Operation and Maintenance of Oil and Gas Extraction Equipment
45 11 06	Schedules for Oil and Gas Extraction Equipment
45 11 10	User-Defined Oil and Gas Extraction Equipment
45 12 00	User-Defined Oil and Gas Extraction Equipment
45 13 00	Mining Machinery and Equipment
45 13 01	Operation and Maintenance of Mining Machinery and Equipment
45 13 06	Schedules for Mining Machinery and Equipment
45 13 10	User-Defined Mining Machinery and Equipment
45 14 00	User-Defined Mining Machinery and Equipment
45 15 00	Food Manufacturing Equipment
45 15 01 45 45 00	Operation and Maintenance of Food Manufacturing Equipment
45 15 06 45 15 10	Schedules for Food Manufacturing Equipment
45 15 10	User-Defined Food Manufacturing Equipment

45 16 00 45 17 00 45 17 01	User-Defined Food Manufacturing Equipment Beverage and Tobacco Manufacturing Equipment Operation and Maintenance of Beverage and Tobacco Manufacturing Equipment
45 17 06	Schedules for Beverage and Tobacco Manufacturing Equipment
45 17 10 45 18 00	User-Defined Beverage and Tobacco Manufacturing Equipment User-Defined Beverage and Tobacco Manufacturing
45 10 00	Equipment
45 19 00	Textiles and Apparel Manufacturing Equipment
45 19 01	Operation and Maintenance of Textiles and Apparel Manufacturing Equipment
45 19 06	Schedules for Textiles and Apparel Manufacturing Equipment
45 19 10	User-Defined Textiles and Apparel Manufacturing Equipment
45 20 00	User-Defined Textiles and Apparel
	Manufacturing Equipment
45 21 00 45 21 01	Leather and Allied Product Manufacturing Equipment Operation and Maintenance of Leather and Allied Product Manufacturing Equipment
45 21 06	Schedules for Leather and Allied Product Manufacturing Equipment
45 21 10	User-Defined Leather and Allied Product Manufacturing Equipment
45 22 00	User-Defined Leather and Allied Product
.=	Manufacturing Equipment
45 23 00	Wood Product Manufacturing Equipment
45 23 01 45 23 06	Operation and Maintenance of Wood Product Manufacturing Equipment Schedules for Wood Product Manufacturing Equipment
45 23 10	User-Defined Wood Product Manufacturing Equipment
45 24 00	User-Defined Wood Product Manufacturing Equipment
45 25 00	Paper Manufacturing Equipment
45 25 01	Operation and Maintenance of Paper Manufacturing Equipment
45 25 06 45 25 10	Schedules for Paper Manufacturing Equipment User-Defined Paper Manufacturing Equipment
45 26 00	User-Defined Paper Manufacturing Equipment
45 27 00	Printing and Related Manufacturing Equipment
45 27 01	Operation and Maintenance of Printing and Related Manufacturing Equipment
45 27 06	Schedules for Printing and Related Manufacturing Equipment
45 27 10	User-Defined Printing and Related Manufacturing Equipment
45 28 00	User-Defined Printing and Related Manufacturing
45 20 00	Equipment Potrology and Cool Broducto Manufacturing
45 29 00	Petroleum and Coal Products Manufacturing
45 29 01	Equipment Operation and Maintenance of Petroleum and Coal Products Manufacturing Equipment
45 29 06 45 29 10	Schedules for Petroleum and Coal Products Manufacturing Equipment User-Defined Petroleum and Coal Products Manufacturing Equipment

45 30 00	User-Defined Petroleum and Coal
	Products Manufacturing Equipment
45 31 00	Chemical Manufacturing Equipment
45 31 01	Operation and Maintenance of Chemical Manufacturing Equipment
45 31 06	Schedules for Chemical Manufacturing Equipment
45 31 10 4 5 32 00	User-Defined Chemical Manufacturing Equipment
45 32 00 45 33 00	User-Defined Chemical Manufacturing Equipment
45 33 00 45 33 01	Plastics and Rubber Manufacturing Equipment Operation and Maintenance of Plastics and Rubber Manufacturing
43 33 01	Equipment
45 33 06	Schedules for Plastics and Rubber Manufacturing Equipment
45 33 10	User-Defined Plastics and Rubber Manufacturing Equipment
45 34 00	User-Defined Plastics and Rubber Manufacturing
45.05.00	Equipment
45 35 00	Nonmetallic Mineral Product Manufacturing
45.05.04	Equipment
45 35 01	Operation and Maintenance of Nonmetallic Mineral Product Manufacturing Equipment
45 35 06	Schedules for Nonmetallic Mineral Product Manufacturing Equipment
45 35 10	User-Defined Nonmetallic Mineral Product Manufacturing Equipment
45 36 00	User-Defined Nonmetallic Mineral Product
	Manufacturing Equipment
45 37 00	Primary Metal Manufacturing Equipment
45 37 01 45 37 06	Operation and Maintenance of Primary Metal Manufacturing Equipment
45 37 06 45 37 10	Schedules for Primary Metal Manufacturing Equipment User-Defined Primary Metal Manufacturing Equipment
45 38 00	User-Defined Primary Metal Manufacturing Equipment
45 39 00	Fabricated Metal Product Manufacturing Equipment
45 39 01	Operation and Maintenance of Fabricated Metal Product Manufacturing
45.20.00	Equipment
45 39 06 45 39 10	Schedules for Fabricated Metal Product Manufacturing Equipment User-Defined Fabricated Metal Product Manufacturing Equipment
45 40 00	User-Defined Fabricated Metal Product
10 10 00	Manufacturing Equipment
45 41 00	
45 41 00 45 41 01	Machinery Manufacturing Equipment Operation and Maintenance of Machinery Manufacturing Equipment
45 41 06	Schedules for Machinery Manufacturing Equipment
45 41 10	User-Defined Machinery Manufacturing Equipment
45 42 00	User-Defined Machinery Manufacturing Equipment
45 43 00	Computer and Electronic Product Manufacturing
	Equipment
45 43 01	Operation and Maintenance of Computer and Electronic Product Manufacturing Equipment
45 43 06	Schedules for Computer and Electronic Product Manufacturing Equipment

45 43 10 45 44 00	User-Defined Computer and Electronic Product Manufacturing Equipment User-Defined Computer and Electronic Product
	Manufacturing Equipment
45 45 00	Electrical Equipment, Appliance, and Component
	Manufacturing Equipment
45 45 01	Operation and Maintenance of Electrical Equipment, Appliance, and Component Manufacturing Equipment
45 45 06	Schedules for Electrical Equipment, Appliance, and Component Manufacturing Equipment
45 45 10	User-Defined Electrical Equipment, Appliance, and Component Manufacturing Equipment
45 46 00	User-Defined Electrical Equipment, Appliance, and
	Component Manufacturing Equipment
45 47 00	Transportation Manufacturing Equipment
45 47 01	Operation and Maintenance of Transportation Manufacturing Equipment
45 47 06	Schedules for Transportation Manufacturing Equipment
45 47 10	User-Defined Transportation Manufacturing Equipment
45 48 00	User-Defined Transportation Manufacturing
	Equipment
45 49 00	Furniture and Related Product Manufacturing
	Equipment
45 49 01	Operation and Maintenance of Furniture and Related Product
45 49 06	Manufacturing Equipment Schedules for Furniture and Related Product Manufacturing Equipment
45 49 10	User-Defined Furniture and Related Product Manufacturing Equipment
45 50 00	User-Defined Furniture and Related
	Product Manufacturing Equipment
45 52 00	User-Defined Other Manufacturing Equipment
45 53 00 45 53 00	
	Biopharmaceutical Manufacturing Equipment
46 00 00	Water and Wastewater Equipment
46 01 00	Operation and Maintenance of Water and Wastewater
	Equipment
46 01 07	Operation and Maintenance of Packaged Treatment Equipment
46 01 20	Operation and Maintenance of Preliminary Treatment Equipment
46 01 30	Operation and Maintenance of Chemical Feed Equipment
46 01 40 46 01 50	Operation and Maintenance of Clarification and Mixing Equipment Operation and Maintenance of Secondary Treatment Equipment
46 01 60	Operation and Maintenance of Advanced Treatment Equipment
46 01 70	Operation and Maintenance of Residuals Handling and Treatment
46 05 00	Common Work Results for Water and Wastewater
	Equipment
46 05 05	Selective Demolition for Water and Wastewater Equipment
46 06 00 46 06 07	Schedules for Water and Wastewater Equipment Schedules for Packaged Treatment Equipment

46 06 20	Schedules for Preliminary Treatment Equipment
46 06 30	Schedules for Chemical Feed Equipment
46 06 40	Schedules for Clarification and Mixing Equipment
46 06 50	Schedules for Secondary Treatment Equipment
46 06 60	Schedules for Advanced Treatment Equipment
46 06 70	Schedules for Residuals Handling and Treatment
46 07 00	Packaged Water and Wastewater Treatment
	Equipment
46 07 13	Packaged Water Treatment Equipment
46 07 53	Packaged Wastewater Treatment Equipment
46 08 00	Commissioning of Water and Wastewater Equipment
46 08 07	Commissioning of Packaged Treatment Equipment
46 08 20	Commissioning of Preliminary Treatment Equipment
46 08 30	Commissioning of Chemical Feed Equipment
46 08 40	Commissioning of Clarification and Mixing Equipment
46 08 50	Commissioning of Secondary Treatment Equipment
46 08 60	Commissioning of Advanced Treatment Equipment
46 08 70	Commissioning of Residuals Handling and Treatment
46 20 00	Water and Wastewater Preliminary
	Treatment Equipment
46 21 00	Screening Equipment
46 21 11	Climber-type Bar Screens
46 21 13	Chain-and-Rake Bar Screens
46 21 16	Flexible Rake Bar Screens
46 21 17	Catenary Bar Screens
46 21 19	Continuous Belt Screens
46 21 23	Cylindrical Bar Screens
46 21 26	Step Screens
46 21 33	Rotary Drum Screens
46 21 39	Spiral Screens
46 21 43	Band Screens
46 21 46	Disc Screens
46 21 51	Traveling Water Screens
46 21 53	Perforated Plate Screens
46 21 56	Wedge Wire Screens
46 21 57	Element Screens
46 21 71	Trash Raking Equipment
46 21 73	Screenings Washing and Compacting Equipment
46 21 76	Vacuum Screenings Conveying Equipment
46 21 79	Screenings Storage Containers
46 21 83	Septage Receiving Equipment
46 23 00	Grit Removal and Handling Equipment
46 23 13	Chain-and-Bucket Grit Removal Equipment
46 23 16	Chain-and-Flight Grit Removal Equipment
46 23 23	Vortex Grit Removal Equipment
46 23 27	Cyclone Degritters
46 23 33	Aerated Grit Removal Equipment
46 23 43	Inline Baffled Grit Removal Equipment

46 23 53	Traveling Bridge Grit Removal Equipment
46 23 63	Grit Classifying and Washing Equipment
46 23 66	Grit Storage Containers
46 24 00	Grinding and Shredding Equipment
46 24 13	Macerators
46 24 16	Comminutors
46 24 23	Inline Grinders
46 24 33	Open-channel Grinders
46 24 36	Modular Grinding-Screening-Compacting Equipment
46 25 00	Oil and Grease Separation and Removal Equipment
46 25 13	Coalescing Oil-Water Separators
46 25 16	API Oil-Water Separators
46 25 23	Grease Traps
46 25 33	Dissolved Air Flotation Grease and Oil Separation Equipment
46 25 41	Helical Scum Skimming and Removal Equipment
46 25 43	Tipping Trough Scum Skimming and Removal Equipment
46 25 46	Chain and Flight Scum Collection and Removal Equipment
46 25 47	Floating Scum Skimming and Removal Equipment
46 30 00	Water and Wastewater Chemical Feed
	Equipment
46 31 00	
	Gas Chemical Feed Equipment
46 31 11	Chlorine Gas Feed Equipment
46 31 13 46 31 16	Sulfur Dioxide Gas Feed Equipment
46 31 16 46 31 23	Ammonia Gas Feed Equipment Gas Storage, Weighing, and Leak Detection Equipment
46 31 26	Emergency Gas Treatment Systems
46 31 33	Chlorine Dioxide Reactors
46 31 43	Carbon Dioxide Gas Feed Equipment
46 31 53	Ozone Generating and Feed Equipment
46 31 56	Liquid Oxygen Storage and Feed Equipment
46 31 59	Cleaning Requirements for Oxygen Service
46 31 83	Gas Chemical Feed Accessories and Safety Equipment
46 33 00	Liquid Chemical Feed Equipment
46 33 13	Sodium Hypochlorite Generating Equipment
46 33 23	Liquid Chemical Weighing Equipment
46 33 33	Polymer Blending and Feed Equipment
46 33 41	Liquid Chemical Feed System Coordination and Integration
46 33 42	Diaphragm-type Metering Pumps
46 33 44	Peristaltic Metering Pumps
46 33 46	Progressing Cavity Metering Pumps
46 33 48	Lobe Metering Pumps
46 33 53	Drum Pumps
46 33 66	Liquid Chemical Transfer Pumps
46 33 73	Liquid Chemical Diffusers
46 33 83	Liquid Chemical Feed Accessories and Safety Equipment
46 36 00	Dry Chemical Feed Equipment
46 36 11	Dry Chemical Feed Equipment Dry Chemical Feed System Coordination and Integration
46 36 13	Storage Silos

40	51 00	Treatment Equipment Air and Gas Diffusion Equipment
46	50 00	Water and Wastewater Secondary
	46 46 26	Nozzle Systems
	46 46 23	Water Cannon
	46 46 16	Flushing Gates
	46 46 13	Tipping Sediment Flushing Tanks
46	46 00	Sediment Removal Equipment
	46 43 76	Inclined Plate Settlers
	46 43 73	Tube Settlers
	46 43 67	High rate Clarification/Thickening Equipment
	46 43 66	Ballasted High-rate Clarifier Equipment
	46 43 63	Dissolved Air Flotation Equipment for Water Treatment
	46 43 61	Flocculating Clarifier, Pulsating Sludge Blanket Type
	46 43 53	Solids Contact Clarifier Equipment
	46 43 21	Circular Clarifier Equipment
	46 43 18	Oscillating Scraper-type Clarifier Equipment
	46 43 16	Differential Head Clarifier Equipment
	46 43 11	Traveling Bridge Clarifier Equipment
-10 '	46 43 11	Chain-and-Flight Clarifier Equipment
46	43 00	Clarifier Equipment
	46 41 46	Portable Tank Mixers
	46 41 43	Side-entry Tank Mixers
	46 41 41	Top-entering Tank Mixers
	46 41 36 46 41 38	Walking-beam Flocculation Equipment Horizontal Oscillating Flocculation Equipment
	46 41 34	Vertical Turbine Flocculation Equipment
	46 41 33	Horizontal Reel Flocculation Equipment
	46 41 31	Vertical Reel Flocculation Equipment
	46 41 29	Pin Mixers
	46 41 27	Paddle Mixers
	46 41 26	Floating Mechanical Mixers
	46 41 23	Submersible Mixers
	46 41 21	Jet Mixing Equipment
	46 41 17	Inline Static Mixers
	46 41 16	Induction-type Rapid Mixing Equipment
	46 41 13	Inline Blender-type Rapid Mixers
	46 41 11	Rapid Mixers
46	41 00	Mixing Equipment
		Mixing Equipment
TU	7 0 00	
46	40 00	Water and Wastewater Clarification and
	46 36 83	Dry Chemical Feed Accessories and Safety Equipment
	46 36 53	Chemical Tablet Feeding Equipment
	46 36 43	Lime Slaking Equipment
	46 36 36	Gravimetric Feed Equipment
	46 36 33	Volumetric Feed Equipment
	46 36 23	Dry Chemical Weighing Equipment

Fixed Mechanical Aerators
Floating Mechanical Aerators
Submersible Aspirating Aerator Equipment
Jet Aeration Equipment
Coarse Bubble Diffusers
Swing-type Channel Aeration Equipment
Shear Box Diffusers
Flexible Membrane Tube Diffusers
Flexible Membrane Disc Diffusers
Ceramic Disc Fine Bubble Diffusers
Floating Membrane Diffusers
Membrane Diffusers
Cascading Aerators
Pure-oxygen Generating Equipment
Biological Treatment Systems
Rotating Biological Contactors
Trickling Filter Rotary Distributor Equipment
Trickling Filter Media
Bio-towers
Moving-bed Biological Reactors
Integrated Fixed-film Activated Sludge Equipment
Intermittent Sand Filters for Wastewater Treatment
Deep-bed Denitrification Filters
Biologically Activated Filters
Membrane Biological Reactors
Sequencing Batch Reactors
Oxidation Ditch Equipment
Vertical Loop Reactors
Water and Wastewater Advanced
Treatment Equipment
Filtration Equipment
Filter Media
Filter Surface Wash Agitators
Filter Air Scour Equipment
Wash Water Troughs
Pressure Filters
Gravity Filters
High-rate Sand Filters
Traveling Bridge Filters
Microfiltration and Ultrafiltration Membrane Equipment
Disc Cloth Filters
Rotary Drum Cloth Filters
Automatic Backwash Cloth Filter Equipment
Cartridge Filters
Bag Filters
Automatic Straining Equipment
Demineralization Equipment
Ion-exchange Vessel Media
Mixed Bed Ion-exchange Vessel Systems

46 63 16	Packed Bed Ion-exchange Vessel Systems
46 63 17	Electrodialysis Reversal Equipment
46 63 23	Reverse-Osmosis and Nanofiltration Membrane Equipment
46 63 31	Multiple-effect Distillation Equipment
46 63 32	Water Vapor Compression Distillation Equipment
46 63 33	Desalination Mechanical Vapor Compression Equipment
46 63 34	Desalination Thermal Vapor Compression Equipment
46 63 36	Desalination Multi-stage Flash Equipment
46 63 41	Desalination Falling Film Evaporators
46 63 43	Desalination Rising Film Evaporators
46 63 53	Desalination Forced-circulation Crystallizing Equipment
46 63 63	Desalination Spray Dry Evaporation Equipment
46 63 73	Demineralization Energy Recovery Equipment
46 66 00	Ultraviolet Equipment
46 66 13	Closed-vessel Low-pressure/Low-intensity Ultraviolet Treatment Equipment
46 66 16	Closed-vessel Low-pressure/High-intensity Ultraviolet Treatment Equipment
46 66 23	Closed-vessel Medium-pressure Ultraviolet Treatment Equipment
46 66 53	Open-channel Low-pressure/Low-intensity Ultraviolet Treatment Equipment
46 66 56	Open-channel Low-pressure/High-intensity Ultraviolet Treatment Equipment
46 66 63	Open-channel Medium-pressure Ultraviolet Treatment Equipment
46 70 00	Water and Wastewater Residuals Handling
	and Treatment
46 71 00	Residuals Thickening Equipment
46 71 00 46 71 13	Residuals Thickening Equipment Circular Gravity Thickeners
46 71 13	Circular Gravity Thickeners Gravity Belt Thickeners Dissolved Air Flotation Thickening Equipment
46 71 13 46 71 16	Circular Gravity Thickeners Gravity Belt Thickeners Dissolved Air Flotation Thickening Equipment Rotary Drum Thickening Equipment
46 71 13 46 71 16 46 71 23 46 71 33 46 71 36	Circular Gravity Thickeners Gravity Belt Thickeners Dissolved Air Flotation Thickening Equipment Rotary Drum Thickening Equipment Centrifuge Thickening Equipment
46 71 13 46 71 16 46 71 23 46 71 33 46 71 36 46 71 43	Circular Gravity Thickeners Gravity Belt Thickeners Dissolved Air Flotation Thickening Equipment Rotary Drum Thickening Equipment Centrifuge Thickening Equipment Disc Thickeners
46 71 13 46 71 16 46 71 23 46 71 33 46 71 36 46 71 43 46 71 46	Circular Gravity Thickeners Gravity Belt Thickeners Dissolved Air Flotation Thickening Equipment Rotary Drum Thickening Equipment Centrifuge Thickening Equipment Disc Thickeners Thickening Screw Press
46 71 13 46 71 16 46 71 23 46 71 33 46 71 36 46 71 43 46 71 46 46 71 53	Circular Gravity Thickeners Gravity Belt Thickeners Dissolved Air Flotation Thickening Equipment Rotary Drum Thickening Equipment Centrifuge Thickening Equipment Disc Thickeners Thickening Screw Press Scum Concentrator Equipment
46 71 13 46 71 16 46 71 23 46 71 33 46 71 36 46 71 43 46 71 46	Circular Gravity Thickeners Gravity Belt Thickeners Dissolved Air Flotation Thickening Equipment Rotary Drum Thickening Equipment Centrifuge Thickening Equipment Disc Thickeners Thickening Screw Press
46 71 13 46 71 16 46 71 23 46 71 33 46 71 36 46 71 43 46 71 46 46 71 53	Circular Gravity Thickeners Gravity Belt Thickeners Dissolved Air Flotation Thickening Equipment Rotary Drum Thickening Equipment Centrifuge Thickening Equipment Disc Thickeners Thickening Screw Press Scum Concentrator Equipment
46 71 13 46 71 16 46 71 23 46 71 33 46 71 36 46 71 43 46 71 46 46 71 53 46 73 00	Circular Gravity Thickeners Gravity Belt Thickeners Dissolved Air Flotation Thickening Equipment Rotary Drum Thickening Equipment Centrifuge Thickening Equipment Disc Thickeners Thickening Screw Press Scum Concentrator Equipment Residuals Stabilization
46 71 13 46 71 16 46 71 23 46 71 33 46 71 36 46 71 43 46 71 46 46 71 53 46 73 00 46 73 11	Circular Gravity Thickeners Gravity Belt Thickeners Dissolved Air Flotation Thickening Equipment Rotary Drum Thickening Equipment Centrifuge Thickening Equipment Disc Thickeners Thickening Screw Press Scum Concentrator Equipment Residuals Stabilization Radial Beam Fixed Digester Covers
46 71 13 46 71 16 46 71 23 46 71 33 46 71 36 46 71 43 46 71 46 46 71 53 46 73 00 46 73 11 46 73 12	Circular Gravity Thickeners Gravity Belt Thickeners Dissolved Air Flotation Thickening Equipment Rotary Drum Thickening Equipment Centrifuge Thickening Equipment Disc Thickeners Thickening Screw Press Scum Concentrator Equipment Residuals Stabilization Radial Beam Fixed Digester Covers Dual Deck Truss-type Fixed Digester Covers Radial Beam Floating Digester Covers Dual Deck Truss-type Floating Digester Covers
46 71 13 46 71 16 46 71 23 46 71 33 46 71 36 46 71 43 46 71 46 46 71 53 46 73 00 46 73 11 46 73 12 46 73 14	Circular Gravity Thickeners Gravity Belt Thickeners Dissolved Air Flotation Thickening Equipment Rotary Drum Thickening Equipment Centrifuge Thickening Equipment Disc Thickeners Thickening Screw Press Scum Concentrator Equipment Residuals Stabilization Radial Beam Fixed Digester Covers Dual Deck Truss-type Fixed Digester Covers Radial Beam Floating Digester Covers Dual Deck Truss-type Floating Digester Covers Radial Beam Floating Gas-holding Digester Covers
46 71 13 46 71 16 46 71 23 46 71 33 46 71 36 46 71 43 46 71 46 46 71 53 46 73 00 46 73 11 46 73 12 46 73 14 46 73 16 46 73 17 46 73 18	Circular Gravity Thickeners Gravity Belt Thickeners Dissolved Air Flotation Thickening Equipment Rotary Drum Thickening Equipment Centrifuge Thickening Equipment Disc Thickeners Thickening Screw Press Scum Concentrator Equipment Residuals Stabilization Radial Beam Fixed Digester Covers Dual Deck Truss-type Fixed Digester Covers Radial Beam Floating Digester Covers Dual Deck Truss-type Floating Digester Covers Radial Beam Floating Gas-holding Digester Covers Dual Deck Truss-type Floating Gas-holding Digester Covers
46 71 13 46 71 16 46 71 23 46 71 33 46 71 36 46 71 43 46 71 46 46 71 53 46 73 00 46 73 11 46 73 12 46 73 14 46 73 16 46 73 17 46 73 18 46 73 19	Circular Gravity Thickeners Gravity Belt Thickeners Dissolved Air Flotation Thickening Equipment Rotary Drum Thickening Equipment Centrifuge Thickening Equipment Disc Thickeners Thickening Screw Press Scum Concentrator Equipment Residuals Stabilization Radial Beam Fixed Digester Covers Dual Deck Truss-type Fixed Digester Covers Radial Beam Floating Digester Covers Dual Deck Truss-type Floating Digester Covers Radial Beam Floating Gas-holding Digester Covers Dual Deck Truss-type Floating Gas-holding Digester Covers Dual Deck Truss-type Floating Gas-holding Digester Covers Dual Deck Truss-type Floating Gas-holding Digester Covers Digester Appurtenances
46 71 13 46 71 16 46 71 23 46 71 33 46 71 36 46 71 43 46 71 46 46 71 53 46 73 00 46 73 11 46 73 12 46 73 14 46 73 16 46 73 17 46 73 18 46 73 19 46 73 21	Circular Gravity Thickeners Gravity Belt Thickeners Dissolved Air Flotation Thickening Equipment Rotary Drum Thickening Equipment Centrifuge Thickening Equipment Disc Thickeners Thickening Screw Press Scum Concentrator Equipment Residuals Stabilization Radial Beam Fixed Digester Covers Dual Deck Truss-type Fixed Digester Covers Radial Beam Floating Digester Covers Dual Deck Truss-type Floating Digester Covers Radial Beam Floating Gas-holding Digester Covers Dual Deck Truss-type Floating Gas-holding Digester Covers Dual Deck Truss-type Floating Gas-holding Digester Covers Digester Appurtenances Aerobic Digester Aeration Equipment
46 71 13 46 71 16 46 71 23 46 71 33 46 71 36 46 71 43 46 71 46 46 71 53 46 73 00 46 73 11 46 73 12 46 73 14 46 73 16 46 73 17 46 73 18 46 73 19 46 73 21 46 73 24	Circular Gravity Thickeners Gravity Belt Thickeners Dissolved Air Flotation Thickening Equipment Rotary Drum Thickening Equipment Centrifuge Thickening Equipment Disc Thickeners Thickening Screw Press Scum Concentrator Equipment Residuals Stabilization Radial Beam Fixed Digester Covers Dual Deck Truss-type Fixed Digester Covers Radial Beam Floating Digester Covers Dual Deck Truss-type Floating Digester Covers Radial Beam Floating Gas-holding Digester Covers Dual Deck Truss-type Floating Gas-holding Digester Covers Dual Deck Truss-type Floating Gas-holding Digester Covers Digester Appurtenances Aerobic Digester Aeration Equipment Autothermal Thermophilic Aerobic Digestion Equipment
46 71 13 46 71 16 46 71 23 46 71 33 46 71 36 46 71 43 46 71 46 46 71 53 46 73 00 46 73 11 46 73 12 46 73 14 46 73 16 46 73 17 46 73 18 46 73 19 46 73 21 46 73 24 46 73 26	Circular Gravity Thickeners Gravity Belt Thickeners Dissolved Air Flotation Thickening Equipment Rotary Drum Thickening Equipment Centrifuge Thickening Equipment Disc Thickeners Thickening Screw Press Scum Concentrator Equipment Residuals Stabilization Radial Beam Fixed Digester Covers Dual Deck Truss-type Fixed Digester Covers Radial Beam Floating Digester Covers Dual Deck Truss-type Floating Digester Covers Radial Beam Floating Gas-holding Digester Covers Dual Deck Truss-type Floating Gas-holding Digester Covers Dual Deck Truss-type Floating Gas-holding Digester Covers Dual Deck Truss-type Floating Gas-holding Digester Covers Digester Appurtenances Aerobic Digester Aeration Equipment Autothermal Thermophilic Aerobic Digestion Equipment Egg-shaped Digesters
46 71 13 46 71 16 46 71 23 46 71 33 46 71 36 46 71 43 46 71 46 46 71 53 46 73 00 46 73 11 46 73 12 46 73 14 46 73 16 46 73 17 46 73 18 46 73 19 46 73 21 46 73 24 46 73 24 46 73 31	Circular Gravity Thickeners Gravity Belt Thickeners Dissolved Air Flotation Thickening Equipment Rotary Drum Thickening Equipment Centrifuge Thickening Equipment Disc Thickeners Thickening Screw Press Scum Concentrator Equipment Residuals Stabilization Radial Beam Fixed Digester Covers Dual Deck Truss-type Fixed Digester Covers Radial Beam Floating Digester Covers Radial Beam Floating Digester Covers Radial Beam Floating Gas-holding Digester Covers Dual Deck Truss-type Floating Digester Covers Adial Beam Floating Gas-holding Digester Covers Dual Deck Truss-type Floating Gas-holding Digester Covers Digester Appurtenances Aerobic Digester Aeration Equipment Autothermal Thermophilic Aerobic Digestion Equipment Egg-shaped Digesters External Draft Tube Digester Mixing System
46 71 13 46 71 16 46 71 23 46 71 33 46 71 36 46 71 43 46 71 46 46 71 53 46 73 00 46 73 11 46 73 12 46 73 14 46 73 16 46 73 17 46 73 18 46 73 19 46 73 21 46 73 24 46 73 26	Circular Gravity Thickeners Gravity Belt Thickeners Dissolved Air Flotation Thickening Equipment Rotary Drum Thickening Equipment Centrifuge Thickening Equipment Disc Thickeners Thickening Screw Press Scum Concentrator Equipment Residuals Stabilization Radial Beam Fixed Digester Covers Dual Deck Truss-type Fixed Digester Covers Radial Beam Floating Digester Covers Dual Deck Truss-type Floating Digester Covers Radial Beam Floating Gas-holding Digester Covers Dual Deck Truss-type Floating Gas-holding Digester Covers Dual Deck Truss-type Floating Gas-holding Digester Covers Dual Deck Truss-type Floating Gas-holding Digester Covers Digester Appurtenances Aerobic Digester Aeration Equipment Autothermal Thermophilic Aerobic Digestion Equipment Egg-shaped Digesters

46 73 34	Unconfined Gas Mixing System
46 73 41	Digester Heating Equipment
46 73 63	Residuals Pasteurization Equipment
46 76 00	Residuals Dewatering Equipment
46 76 13	Vacuum Filters
46 76 21	Belt Filter Presses
46 76 23	Plate-and-Frame Filter Presses
46 76 26	Rotary Presses
46 76 27	Screw Presses
46 76 33	Dewatering Centrifuges
46 76 53	Belt Dryers
46 76 60	Direct-heat Residuals Drying Equipment
46 76 70	Indirect-heat Residuals Drying Equipment
46 78 00	Thermal Treatment of Residuals
46 78 13	Multiple-hearth Sludge Incinerators
46 78 23	Fluidized-bed Sludge Incinerators
46 78 33	Ash Handling Equipment
46 78 41	Recuperative Air Preheating Equipment
46 78 46	Regenerative Thermal Oxidizers
46 78 47	Waste Heat Recovery Boilers
46 78 49	Waste Heat Recovery Heat Exchangers
46 78 73	Thermal Oxidation Equipment
48 00 00	Electrical Power Generation
48 01 00	Operation and Maintenance for Electrical Power
	Generation
48 01 10	Operation and Maintenance of Electrical Power Generation Equipment
48 01 70	Operation and Maintenance of Electrical Power Generation Testing
48 05 00	Common Work Results for Electrical Power
	Generation
48 05 05	Selective Demolition for Electrical Power Generation
48 06 00	Schedules for Electrical Power Generation
48 06 10	Schedules for Electrical Power Generation Equipment
48 06 70	Schedules for Electrical Power Generation Testing
48 08 00	Commissioning of Electrical Power Generation
48 09 00	Instrumentation and Control for Electrical Power
	Generation
48 10 00	Floctrical Power Congration Equipment
	Electrical Power Generation Equipment
48 11 00	Fossil Fuel Plant Electrical Power Generation
	Equipment
48 11 13	Fossil Fuel Electrical Power Plant Boilers
48 11 16	Fossil Fuel Electrical Power Plant Condensers
48 11 19	Fossil Fuel Electrical Power Plant Steam Turbines
48 11 23	Fossil Fuel Electrical Power Plant Gas Turbines
48 11 26	Fossil Fuel Electrical Power Plant Generators
48 12 00	Nuclear Fuel Plant Electrical Power Generation

	Equipment
48 12 13	Nuclear Fuel Reactors
48 12 13.13	Nuclear Fuel Fission Reactors
48 12 13.16	Nuclear Fuel Fusion Reactors
48 12 23	Nuclear Fuel Electrical Power Plant Steam Generators
48 12 26	Nuclear Fuel Electrical Power Plant Condensers
48 12 29	Nuclear Fuel Electrical Power Plant Turbines
48 12 33	Nuclear Fuel Electrical Power Generators
48 13 00	Hydroelectric Plant Electrical Power Generation
	Equipment
48 13 13	Hydroelectric Power Plant Water Turbines
48 13 16	Hydroelectric Power Plant Electrical Power Generators
48 14 00	Solar Energy Electrical Power Generation Equipment
48 14 13	Solar Energy Collectors
48 14 13.13	Amorphous Solar Energy Collectors
48 14 13.16	Plate Cell Solar Energy Collectors
48 14 13.19	Vacuum Tube Solar Energy Collectors
48 15 00	Wind Energy Electrical Power Generation Equipment
48 15 13	Wind Turbines
48 15 16	Wind Energy Electrical Power Generators
48 16 00	Geothermal Energy Electrical Power Generation
40 10 00	Equipment
48 16 13	Geothermal Energy Heat Pumps
48 16 16	Geothermal Energy Condensers
48 16 19	Geothermal Energy Steam Turbines
48 16 23	Geothermal Energy Electrical Power Generators
48 17 00	
40 17 00	Electrochemical Energy Electrical Power Generation
	Equipment
48 17 13	Electrical Power Generation Batteries
48 18 00	Fuel Cell Electrical Power Generation Equipment
48 18 13	Electrical Power Generation Fuel Cells
48 18 16	Hydrogen Control Equipment
48 19 00	Electrical Power Control Equipment
48 19 13	Electrical Power Generation Battery Charging Equipment
48 19 16	Electrical Power Generation Inverters
48 19 19	Electrical Power Generation Solar Tracking Equipment
48 19 23	Electrical Power Generation Transformers
48 19 26	Electrical Power Generation Voltage Regulators
48 30 00	Combined Heat and Power Generation
48 31 00	Combustion Combined Heat and Power Generation
48 31 13	Natural Gas-Fueled Combined Heat and Power Generation
48 31 16	Biomass-Fueled Combined Heat and Power Generation
48 70 00	Electrical Power Generation Testing
48 71 00	Electrical Power Generation Test Equipment
48 71 13	Electrical Power Generation Corona Test Equipment
48 71 16	Flectrical Power Generation Current Test Equipment

48 71 19	Electrical Power Generation Power Test Equipment
48 71 23	Electrical Power Generation Resistance Test Equipment
48 71 26	Electrical Power Generation Voltage Test Equipment