

Section No.	Section Title	Architectural			Building Eng.			Sitework		Multidiscipline			Description
		Arch	Hlst	Int	Mech	Elec	Str	Lan	SC	Comp	AE	CX	
<b>DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS</b>													
000101	Project Title Page	•	•	•	•	•	•	•	•	•	•		Project Manual title page.
000107	Seals Page	•	•	•	•	•	•	•	•	•	•		For seals of design professionals on Project Manual.
000115	List of Drawing Sheets	•	•	•	•	•	•	•	•	•	•		List of Drawings.
000120	List of Schedules	•	•	•	•	•	•	•	•	•	•		For a list of separately bound schedules.
001113	Advertisement for Bids	•	•	•	•	•	•	•	•	•	•		For use on public projects.
001115	Advertisement for Prequalification of Bidders	•	•	•	•	•	•	•	•	•	•		For use on public projects.
001116	Invitation to Bid	•	•	•	•	•	•	•	•	•	•		For use on private projects.
001153	Request for Qualifications	•	•	•	•	•	•	•	•	•	•		For use on public projects.
002113	Instructions to Bidders	•	•	•	•	•	•	•	•	•	•		Incorporates AIA A701 by reference.
002213	Supplementary Instructions to Bidders	•	•	•	•	•	•	•	•	•	•		For use with AIA A701.
002513	Prebid Meetings	•	•	•	•	•	•	•	•	•	•		Sets date, time, place, and terms for prebid meetings.
002600	Procurement Substitution Procedures	•	•	•	•	•	•	•	•	•	•		Substitution procedures during bidding.
003113	Preliminary Schedules	•	•	•	•	•	•	•	•	•	•		Preliminary schedules.
003119	Existing Condition Information	•	•	•	•	•	•	•	•	•	•		References documents for survey and as-built information.
003126	Existing Hazardous Material Information	•	•	•	•	•	•	•	•	•	•		References documents for existing hazardous materials.
003132	Geotechnical Data	•	•	•	•	•	•	•	•	•	•		References documents for geotechnical data.
003143	Permit Application	•	•	•	•	•	•	•	•	•	•		Indicates responsibility for building permit application.
004113	Bid Form - Stipulated Sum (Single-Prime Contract)	•	•	•	•	•	•	•	•	•	•		Fixed price, single prime.
004116	Bid Form - Stipulated Sum (Multiple-Prime Contract)	•	•	•	•	•	•	•	•	•	•		Fixed price, multiple prime.
004123	Bid Form - Construction Management (Single-Prime Contract)	•	•	•	•	•	•	•	•	•	•		Fixed price, construction management, single prime.
004126	Bid Form - Construction Management (Multiple-Prime Contract)	•	•	•	•	•	•	•	•	•	•		Fixed price, construction management, multiple prime.
004133	Bid Form - Cost-Plus-Fee (Single-Prime Contract)	•	•	•	•	•	•	•	•	•	•		Cost plus, with or without guaranteed maximum.
004313	Bid Security Forms	•	•	•	•	•	•	•	•	•	•		References AIA A310.
004321	Allowance Form	•	•	•	•	•	•	•	•	•	•		Attachment for Bid Form.
004322	Unit Prices Form	•	•	•	•	•	•	•	•	•	•		Attachment for Bid Form.
004323	Alternates Form	•	•	•	•	•	•	•	•	•	•		Attachment for Bid Form.
004373	Proposed Schedule of Values Form	•	•	•	•	•	•	•	•	•	•		Attachment for Bid Form.
004393	Bid Submittal Checklist	•	•	•	•	•	•	•	•	•	•		Attachment for Bid Form.
005100	Notice of Award	•	•	•	•	•	•	•	•	•	•		For notifying successful bidder.
006000	Project Forms	•	•	•	•	•	•	•	•	•	•		References Agreement, General Conditions, and administrative forms.
009113	Addenda	•	•	•	•	•	•	•	•	•	•		For notifying bidders of changes.
<b>DIVISION 01 - GENERAL REQUIREMENTS</b>													
010000	General Requirements	•	•	•	•	•	•	•	•	•	•		Evaluations: Role of Division 1 Sections, their preparation and coordination.

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011000	Summary	•	•	•	•	•	•	•	•	•	•	•	Summary of the Work, phased construction, purchase contracts, Owner-furnished products, access to site, and work restrictions.
011200	Multiple Contract Summary	•	•	•	•	•	•	•	•	•	•	•	Responsibilities of each contract for the Work, coordination, and temporary facilities and controls.
012100	Allowances	•	•	•	•	•	•	•	•	•	•	•	Provisions for cash allowances including lump-sum, unit cost, contingency, and testing and inspecting allowances.
012200	Unit Prices	•	•	•	•	•	•	•	•	•	•	•	Provisions for unit prices.
012300	Alternates	•	•	•	•	•	•	•	•	•	•	•	Provisions for change-of-scope and cost-comparison type alternates.
012500	Substitution Procedures	•	•	•	•	•	•	•	•	•	•	•	Procedural requirements for requests for substitutions during construction.
012600	Contract Modification Procedures	•	•	•	•	•	•	•	•	•	•	•	Procedural requirements for changes to the Contract.
012900	Payment Procedures	•	•	•	•	•	•	•	•	•	•	•	Administrative requirements for Contractor's Applications for Payment.
U 013100	Project Management and Coordination	•	•	•	•	•	•	•	•	•	•	•	Administrative requirements for project meetings; preconstruction, preinstallation, and project closeout conferences; RFIs; and project Web sites.
013200	Construction Progress Documentation	•	•	•	•	•	•	•	•	•	•	•	Contractor's Construction Schedule including Gantt charts and CPM schedules; and web-based project software.
013233	Photographic Documentation	•	•	•	•	•	•	•	•	•	•	•	Construction photographs, video recordings, and web-based photographic documentation.
013300	Submittal Procedures	•	•	•	•	•	•	•	•	•	•	•	Procedures for Action and Informational Submittals including Delegated-Design Submittals and Submittals Schedule.
013513.16	Special Project Procedures for Detention Facilities	•				•					•	•	Special requirements for detention work including responsibilities of a detention specialist.
013516	Alteration Project Procedures	•		•	•	•	•	•	•	•	•	•	General protection and work procedures for remodeling, renovation, repair, and maintenance work.
013591	Historic Treatment Procedures		•								•		General protection and treatment of historic spaces.
014000	Quality Requirements	•	•	•	•	•	•	•	•	•	•	•	Quality-assurance and -control requirements, special tests and inspections, and Contractor's quality-control plan.
014200	References	•	•	•	•	•	•	•	•	•	•	•	Common definitions and terms; and acronyms and trade names of associations, government agencies, and other entities referenced in MasterSpec.
U 015000	Temporary Facilities and Controls	•	•	•	•	•	•	•	•	•	•	•	Temporary utilities and facilities for construction support, security, and protection.
015639	Temporary Tree and Plant Protection	•						•	•		•	•	Construction-phase tree and plant protection, trimming, protection- zone fencing, and pruning.
015723	Temporary Storm Water Pollution Control	•							•		•	•	Requirements for compliance with EPA's Stormwater Pollution Prevention Plan (SWPPP).
016000	Product Requirements	•	•	•	•	•	•	•	•	•	•	•	Administrative and procedural requirements for product, material, and equipment selection and handling; warranties; and comparable products.
017300	Execution	•	•	•	•	•	•	•	•	•	•	•	General requirements for product installation, cutting and patching, protection, field engineering, and progress cleaning.

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017419	Construction Waste Management and Disposal	●	●	●	●	●	●	●	●	●	●	●	Salvaging, recycling, and disposing of non-hazardous demolition and construction waste.
017700	Closeout Procedures	●	●	●	●	●	●	●	●	●	●	●	Contract closeout including Substantial Completion and Final Completion procedures, warranties, and final cleaning.
017823	Operation and Maintenance Data	●	●	●	●	●	●	●	●	●	●	●	Emergency, operation, and maintenance manuals for products and equipment.
017839	Project Record Documents	●	●	●	●	●	●	●	●	●	●	●	Record record Drawings, Specifications, and Product Data.
017900	Demonstration and Training	●	●	●	●	●	●	●	●	●	●	●	Administrative and procedural requirements for instructing Owner's personnel in operation and maintenance.
U 018113.13	Sustainable Design Requirements - LEED 2009 for New Construction and Major Renovations	●	●	●	●	●	●	●	●	●	●	●	General requirements and procedures for LEED 2009 for New Construction and Major Renovations.
U 018113.14	Sustainable Design Requirements - LEED v4 Bd+c: New Construction	●	●	●	●	●	●	●	●	●	●	●	General requirements and procedures for LEED v4 BD+C.
018113.16	Sustainable Design Requirements - LEED 2009 for Commercial Interiors	●	●	●	●	●	●	●	●	●	●	●	General requirements and procedures for LEED 2009 for Commercial Interiors.
U 018113.17	Sustainable Design Requirements - LEED v4 Id+c: Commercial Interiors	●	●	●	●	●	●	●	●	●	●	●	General requirements and procedures for LEED v4 ID+C.
018113.19	Sustainable Design Requirements - LEED 2009 for Core and Shell Development	●	●	●	●	●	●	●	●	●	●	●	General requirements and procedures for LEED 2009 for Core and Shell Development.
018113.23	Sustainable Design Requirements - LEED 2009 for Schools	●	●	●	●	●	●	●	●	●	●	●	General requirements and procedures for LEED 2009 for Schools.
018113.33	Sustainable Design Requirements - IgCC	●	●	●	●	●	●	●	●	●	●	●	General requirements and procedures for IgCC.
018113.43	Sustainable Design Requirements - ASHRAE 189.1	●	●	●	●	●	●	●	●	●	●	●	General requirements and procedures for ASHRAE 189.1.
018113.53	Sustainable Design Requirements - Green Globes	●	●	●	●	●	●	●	●	●	●	●	General requirements and procedures for Green Globes.
019113	General Commissioning Requirements									●		●	Administrative requirements and procedures for commissioning all systems.
019119.43	Exterior Enclosure Commissioning									●		●	Requirements for testing building enclosure systems and assemblies as part of the commissioning process.

## DIVISION 02 - EXISTING CONDITIONS

024116	Structure Demolition	●			●	●	●		●	●	●	●	Demolition of existing buildings, structures, and associated site improvements.
024119	Selective Demolition	●		●	●	●	●	●	●	●	●	●	Demolition of selected portions of existing buildings, structures, and associated site improvements.
024296	Historic Removal and Dismantling		●							●			Special types of selective demolition work for historic spaces and surfaces.
028716.13	Bird Excrement Removal		●							●			Removal of bird excrement in historic or nonhistoric buildings.

## DIVISION 03 - CONCRETE

030130	Maintenance of Cast-In-Place Concrete	●				●			●		●	●	Concrete patching and repair, epoxy crack injection, corrosion inhibiting surface treatment, polymer overlays and sealers, and composite structural performance.
031000	Concrete Forming and Accessories	●				●					●	●	General building and structural applications; concrete formwork and waterstops.
032000	Concrete Reinforcing	●				●					●	●	General building and structural applications; concrete reinforcing.

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033000	Cast-In-Place Concrete	●					●	●	●	●	●		General building and structural applications; concrete mixtures, finishing, and curing.
033300	Architectural Concrete	●					●			●	●		Specially formed, placed, and finished architectural concrete.
033543	Polished Concrete Finishing	●		●						●	●		Ground and polished concrete floor slabs, including stained and polished concrete.
033713	Shotcrete	●					●	●		●	●		Pneumatically applied concrete, dry- and wet-mix processes.
033816	Unbonded Post-Tensioned Concrete	●					●		●	●	●		Post-tensioning reinforcement, encapsulated and non-encapsulated.
034100	Precast Structural Concrete	●					●		●	●	●		Conventional precast structural concrete units.
034500	Precast Architectural Concrete	●						●		●	●		Precast concrete cladding units, insulated units, and masonry-faced units.
034713	Tilt-Up Concrete	●					●			●	●		Wall panels and insulated sandwich panels.
034900	Glass-Fiber-Reinforced Concrete (GFRC)	●					●			●	●		GFRC cladding panels; panel framing.
035113	Cementitious Wood Fiber Decks	●					●			●	●		Monolithic, composite, and insulated composite units for roof and form decks.
035216	Lightweight Insulating Concrete	●					●			●	●		Aggregate and cellular types.
035300	Concrete Topping	●								●	●		High-strength concrete slab toppings for heavy-duty, industrial-type applications.
035413	Gypsum Cement Underlayment	●		●						●	●		Self-leveling, gypsum-cement-based underlayment.
035416	Hydraulic Cement Underlayment	●		●						●	●		Self-leveling, hydraulic-cement-based underlayment.
<b>DIVISION 04 - MASONRY</b>													
040110	Masonry Cleaning	●								●	●		Nonhistoric applications for unit masonry and stone surfaces.
040120.63	Brick Masonry Repair	●								●	●		Nonhistoric applications for clay brick masonry.
040120.64	Brick Masonry Repointing	●								●	●		Nonhistoric applications for clay brick masonry.
040140.61	Stone Repair	●								●	●		Nonhistoric applications for stone masonry.
040140.62	Stone Repointing	●								●	●		Nonhistoric applications for stone masonry.
040310	Historic Masonry Cleaning			●						●			Cleaning and removing paint from clay and stone masonry.
040322	Historic Brick Unit Masonry Repair			●						●			Repairing, patching, and replacing brickwork.
040323	Historic Brick Unit Masonry Repointing			●						●			Repointing mortar and sealant joints in brickwork.
040326	Historic Terra Cotta Unit Masonry Repair			●						●			Repairing, patching, and replacing terra cotta.
040327	Historic Terra Cotta Unit Masonry Repointing			●						●			Repointing mortar and sealant joints in terra cotta.
040336	Historic Treatment of Adobe Masonry			●						●			Repairing and replacing adobe units, plaster, and paint.
040342	Historic Stone Masonry Repair			●						●			Repairing, patching, and replacing stone.
040343	Historic Stone Masonry Repointing			●						●			Repointing mortar and sealant joints in stonework.
040345	Historic Stone Consolidation Treatment			●						●			Chemical consolidation to strengthen stone.
042000	Unit Masonry	●		●			●	●		●	●		CMU, brick, structural-clay facing tile, and stone trim units.
042200	Concrete Unit Masonry	●		●			●			●	●		Single-wythe CMU including decorative units.
042300	Glass Unit Masonry	●		●						●	●		Glass block installed with mortar, glass block installed with spacers and sealant, and glass-block grid systems.

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042613	Masonry Veneer	●					●		●		●	●	Brick veneer over wood- or metal-stud backup.
044200	Exterior Stone Cladding	●					●				●	●	Exterior stone panels.
044313.13	Anchored Stone Masonry Veneer	●							●		●	●	Stone laid in mortar and anchored to backup with masonry veneer anchors.
044313.16	Adhered Stone Masonry Veneer	●							●		●	●	Stone adhered to backup with mortar; not anchored.
047200	Cast Stone Masonry	●					●		●		●	●	Architectural features, facing, trim, and site accessories.
<b>DIVISION 05 - METALS</b>													
050170.51	Decorative Metal Cleaning	●									●	●	Cleaning and removing paint.
050170.61	Decorative Metal Repair	●									●	●	Repairing, patching, and replacing components.
050170.63	Decorative Metal Refinishing	●									●	●	Integral metal finishes and clear protective coatings.
050371	Historic Decorative Metal Cleaning		●								●		Cleaning and removing paint.
050372	Historic Decorative Metal Repair		●								●		Repairing, patching, and replacing decorative metals, other than cast iron and sheet metal.
050373	Historic Decorative Metal Refinishing		●								●		Integral metal finishes, metallic-plated finishes, and clear protective coatings.
050374	Historic Decorative Metal Replication		●								●		Replicating and installing items and assemblies.
050383	Historic Cast Iron Repair		●								●		Filling defects, pinning, metal stitching, replacing components, and refinishing.
050385	Historic Treatment of Decorative Formed Metal		●								●		Patching, replacing components, and refinishing formed sheet metal.
050387	Historic Treatment of Metal Sculpture		●								●		Patching, repairing, and refinishing copper-alloy and cast-iron sculpture.
051200	Structural Steel Framing	●					●				●	●	Structural steel framing for buildings.
051213	Architecturally Exposed Structural Steel Framing	●					●				●	●	Architecturally exposed structural steel framing for buildings.
U 052100	Steel Joist Framing	●					●				●	●	Standard manufactured open-web units, including steel joists, long-span steel joists, and joist girders.
053100	Steel Decking	●					●				●	●	Roof, floor, and form steel deck.
054000	Cold-Formed Metal Framing	●					●				●	●	Load-bearing and exterior non-load-bearing wall studs; floor, ceiling, and roof joists; and rafters.
054400	Cold-Formed Metal Trusses	●					●				●	●	Cold-formed steel trusses for roofs and floors.
055000	Metal Fabrications	●		●	●	●	●	●	●		●	●	Metal items (not sheet metal) made from iron and steel shapes, stainless steel, and non-ferrous metals.
055113	Metal Pan Stairs	●		●			●				●	●	Steel stairs with either metal pan or abrasive-finished metal treads.
055116	Metal Floor Plate Stairs	●		●			●				●	●	Steel stairs with metal floor plate treads.
055119	Metal Grating Stairs	●		●			●				●	●	Steel stairs with steel-bar-grating treads.
055213	Pipe and Tube Railings	●		●					●	●	●	●	Railings fabricated from aluminum, stainless-steel, and steel pipe and tubing.
055313	Bar Gratings	●		●	●	●	●				●	●	Metal bar gratings and frames.
055316	Plank Gratings	●		●	●	●	●				●	●	Metal plank gratings and frames.

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055319	Expanded Metal Gratings	●		●			●				●	●	Expanded metal gratings and frames.
055813	Column Covers	●		●							●	●	Spackled-seam and snap-together types, including those intended to be painted and those made from decorative metals, such as stainless steel, bronze, and brass.
055819	Heating/Cooling Unit Covers	●		●							●	●	Heating-cooling unit enclosures shop fabricated from steel sheet to custom designs.
055963	Detention Enclosures	●									●	●	Bar-grille and woven-rod-mesh assemblies, and security grilles and vents.
057000	Decorative Metal	●		●							●	●	Custom fabrications from nonferrous and ferrous metals.
057100	Decorative Metal Stairs	●		●		●		●			●	●	Architectural steel stairs.
057113	Fabricated Metal Spiral Stairs	●		●							●	●	Steel and aluminum units with center column and radiating treads.
057300	Decorative Metal Railings	●		●							●	●	Ornamental metal railings assembled from either standard or custom components and shapes. Also included are illuminated railings.
057313	Glazed Decorative Metal Railings	●		●							●	●	Glass- and plastic-supported railings, and post-supported railings with glass infill, both assembled from either standard or custom decorative metal components and shapes.
057500	Decorative Formed Metal	●		●							●	●	Miscellaneous decorative formed metal items that are shop fabricated from metal sheet to custom designs.

## DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES

060312	Historic Wood Repair		●								●		Repairing, patching, and replacing wood components.
061000	Rough Carpentry	●		●		●	●	●	●		●	●	Wood framing, furring, grounds, nailers, and blocking.
061053	Miscellaneous Rough Carpentry	●		●		●	●				●	●	Minor wood framing, furring, grounds, nailers, and blocking.
061063	Exterior Rough Carpentry	●						●	●		●	●	Wood fences and other exterior wood construction.
061300	Heavy Timber Construction	●						●			●	●	Solid timber framing.
061516	Wood Roof Decking	●						●			●	●	Solid and laminated T & G decking.
061533	Wood Patio Decking	●						●	●		●	●	Elevated decks.
061600	Sheathing	●						●			●	●	Roof and wall sheathing, subflooring, and underlayment. Includes wood, non-wood, and composite products.
061753	Shop-Fabricated Wood Trusses	●						●			●	●	Metal-plate-connected members.
061800	Glued-Laminated Construction	●						●	●		●	●	Glued-laminated structural framing.
062013	Exterior Finish Carpentry	●		●							●	●	Exposed and nonstructural.
U 062023	Interior Finish Carpentry	●		●							●	●	Exposed and nonstructural.
064013	Exterior Architectural Woodwork	●		●							●	●	Trim, door frames, shutters, and ornamental items.
064023	Interior Architectural Woodwork	●		●							●	●	Trim, cabinets, tops, paneling, stairs, and ornamental items.
U 064113	Wood-Veneer-Faced Architectural Cabinets	●		●							●	●	Custom-made veneer-faced cabinets.
U 064116	Plastic-Laminate-Clad Architectural Cabinets	●		●							●	●	Custom-made plastic-laminate cabinets.
U 064214	Stile and Rail Wood Paneling	●		●							●	●	Solid-wood and veneered stile and rail paneling; transparent finished and opaque finished.
U 064216	Flush Wood Paneling	●		●							●	●	Veneer-faced flush panels.

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U 064219	Plastic-Laminate-Faced Wood Paneling	●		●						●	●		Plastic-laminate-faced flush panels.
064400	Ornamental Woodwork	●		●						●	●		Miscellaneous shop-assembled woodwork items.
066400	Plastic Paneling	●		●						●	●		Plastic paneling for utilitarian applications.
067413	Fiberglass Reinforced Gratings	●		●	●		●			●	●		Fiberglass bar gratings and frames.
<b>DIVISION 07 - THERMAL AND MOISTURE PROTECTION</b>													
070150.19	Preparation for Reroofing	●								●	●		Preparation for low-slope reroofing - tear-off and re-cover situations.
071113	Bituminous Dampproofing	●						●	●	●	●		Cold-applied, cut-back- (solvent-based) and emulsified- (water-based) asphaltic dampproofing.
071326	Self-Adhering Sheet Waterproofing	●						●	●	●	●		Self-adhering, positive-side sheet waterproofing; drainage panels; pedestal-supported concrete pavers.
071353	Elastomeric Sheet Waterproofing	●							●	●	●		Butyl and EPDM sheet; drainage panels; pedestal-supported concrete pavers.
071354	Thermoplastic Sheet Waterproofing	●							●	●	●		PVC sheet; drainage panels; pedestal-supported concrete pavers.
071413	Hot Fluid-Applied Rubberized Asphalt Waterproofing	●							●	●	●		Hot, rubberized-asphalt waterproofing for plaza deck and below-grade walls.
071416	Cold Fluid-Applied Waterproofing	●							●	●	●		Polyurethane, polyester, and rubber types; drainage panels and plaza-deck pavers.
071613	Polymer Modified Cement Waterproofing	●								●	●		Polymer-modified cementitious waterproofing.
071616	Crystalline Waterproofing	●								●	●		Crystal-forming, reactive cementitious waterproofing.
071619	Metal Oxide Waterproofing	●								●	●		Expanding iron-oxide, cementitious waterproofing.
071700	Bentonite Waterproofing	●								●	●		Bentonite sheet membrane and panel waterproofing systems.
071800	Traffic Coatings	●								●	●		Cold liquid-applied water-resistant coatings with integral wearing surface.
071900	Water Repellents	●								●	●		Clear and pigmented, penetrating, and film-forming, and MPI-approved types.
072100	Thermal Insulation	●								●	●		General building insulation installed at project site, excluding roof insulation.
072119	Foamed-In-Place Insulation	●								●	●		Spray-applied polyurethane foam insulation.
072413	Polymer-Based Exterior Insulation and Finish System (EIFS)	●								●	●		Composite flexible coating and inner layer of rigid, cellular thermal insulation.
072419	Water-Drainage Exterior Insulation and Finish System (EIFS)	●								●	●		Composite flexible coating and inner layer of extruded-polystyrene board insulation with water drainage.
072500	Weather Barriers	●								●	●		Building paper and building wrap water-resistant barriers, drainage materials, and flexible flashing.
072600	Vapor Retarders	●								●	●		Interior sheet vapor retarders used in framed construction and in crawl spaces.
072713	Modified Bituminous Sheet Air Barriers	●								●	●		Vapor-retarding, modified bituminous sheet type.
072715	Nonbituminous Self-Adhering Sheet Air Barriers	●								●	●		Vapor-retarding and vapor-permeable nonbituminous sheet type.
072726	Fluid-Applied Membrane Air Barriers	●								●	●		Vapor-retarding and vapor-permeable high-build, medium-build, and low-build types.
073113	Asphalt Shingles	●								●	●		Glass-fiber-reinforced asphalt shingles.

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Section No.	Section Title	Architectural			Building Eng.			Sitework		Multidiscipline			Description
		Arch	Hlst	Int	Mech	Elec	Str	Lan	SC	Comp	AE	CX	
073116	Metal Shingles	●								●	●		Shingle panels and individual shingles for roofing and siding.
073126	Slate Shingles	●								●	●		Natural-slate roof shingles, underlayments, flashing, and accessories.
073129	Wood Shingles and Shakes	●								●	●		Wood shingles and shakes used as roof covering.
073213	Clay Roof Tiles	●								●	●		Clay tile roofing, underlayments, flashing, and accessories.
073216	Concrete Roof Tiles	●								●	●		Concrete tile roofing, underlayments, flashing, and accessories.
074113.13	Formed Metal Roof Panels	●								●	●		Standard-profile exposed-fastener, lap-seam panels, and horizontal-seam (Bermuda-type) panels.
074113.16	Standing-Seam Metal Roof Panels	●								●	●		Standard-profile pans with upturned edges.
074113.19	Batten-Seam Metal Roof Panels	●								●	●		Standard-profile pans with upturned edges covered by separate battens.
074116	Insulated Metal Roof Panels	●								●	●		Panels with foamed-insulation cores.
074213.13	Formed Metal Wall Panels	●								●	●		Standard-profile exposed- and concealed-fastener, lap-seam wall and liner panels.
074213.16	Metal Plate Wall Panels	●								●	●		Aluminum plates secured to buildings with specialized attachment systems.
074213.19	Insulated Metal Wall Panels	●								●	●		Panels with foamed-insulation, laminated-insulation, and honeycomb cores.
074213.23	Metal Composite Material Wall Panels	●								●	●		Panels with metal facings and thin plastic cores secured to buildings with specialized attachment systems.
074293	Soffit Panels	●								●	●		Concealed-fastener, lap-seam, metal panels, with and without perforations.
074616	Aluminum Siding	●								●	●		Aluminum siding and soffit.
074619	Steel Siding	●								●	●		Steel siding and soffit.
074624	Wood Shingle and Shake Siding	●								●	●		Wood shingles, shakes and wood-shingle-clad panels used as exterior wall cladding (siding).
074633	Plastic Siding	●								●	●		Vinyl siding and soffit.
074646	Fiber-Cement Siding	●								●	●		Fiber-cement siding and soffit.
075113	Built-Up Asphalt Roofing	●								●	●		Hot built-up asphalt roofing; roofing insulation.
075116	Built-Up Coal Tar Roofing	●								●	●		Hot built-up coal-tar roofing; roofing insulation.
075213	Atactic-Polypropylene (APP) Modified Bituminous Membrane Roofing	●								●	●		APP-modified bituminous membrane roofing; roofing insulation.
075216	Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing	●								●	●		SBS-modified bituminous membrane roofing; roofing insulation.
075316	Chlorosulfonate-Polyethylene (CSPE) Roofing	●								●	●		Adhered, mechanically fastened, and loosely laid CSPE systems.
075323	Ethylene-Propylene-Diene-Monomer (EPDM) Roofing	●								●	●		Adhered, self-adhered, mechanically fastened, and loosely laid EPDM systems.
075416	Ketone Ethylene Ester (KEE) Roofing	●								●	●		Adhered, mechanically fastened, and loosely laid KEE systems.
075419	Polyvinyl-Chloride (PVC) Roofing	●								●	●		Adhered, mechanically fastened, and loosely laid PVC systems.
075423	Thermoplastic-Polyolefin (TPO) Roofing	●								●	●		Adhered, self-adhered, mechanically fastened, and loosely laid TPO systems.

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Section No.	Section Title	Architectural			Building Eng.			Sitework		Multidiscipline			Description
		Arch	Hlst	Int	Mech	Elec	Str	Lan	SC	Comp	AE	CX	
075552.13	Atactic-Polypropylene (APP) Modified Bituminous Protected Membrane Roofing	●								●	●		Atactic-polypropylene (APP)-modified protected membrane roofing systems, including roofing membrane, roof insulation, base flashings, aggregate and roof paver ballast, and auxiliary roofing materials.
075552.16	Styrene-Butadiene-Styrene (SBS) Modified Bituminous Protected Membrane Roofing	●								●	●		Styrene-butadiene-styrene (SBS)-modified bituminous protected membrane roofing systems, including roofing membrane, roof insulation, base flashings, vapor retarders, aggregate and roof paver ballast, and auxiliary roofing materials.
075556	Fluid-Applied Protected Membrane Roofing	●								●	●		Ballasted, insulated, hot rubberized-asphalt protected roof membrane.
075700	Coated Foamed Roofing	●								●	●		Spray polyurethane foam insulation with elastomeric protective coating for roofing applications.
076100	Sheet Metal Roofing	●								●	●		Custom-fabricated, shop- or field-brake-formed, sheet metal roofing.
076200	Sheet Metal Flashing and Trim	●			●	●				●	●		Custom-fabricated roof and wall flashings and roof-drainage systems, and manufactured through-wall flashing and reglets.
077100	Roof Specialties	●								●	●		Manufactured copings, roof-edge flashings and drainage systems, and counter flashings.
077129	Manufactured Roof Expansion Joints	●								●	●		Factory-fabricated, bellows-type, and aluminum roof-expansion-joint assemblies.
077200	Roof Accessories	●			●	●				●	●		Roof curbs, equipment supports, roof hatches, heat and smoke vents, gravity ventilators, pipe supports, roof walkways, and preformed flashing sleeves.
077253	Snow Guards	●								●	●		Pad- and rail-type, flat- or seam-mounted snow guards.
077273	Vegetated Roof Systems	●						●		●	●		Vegetated roof assemblies for rooftop or plaza installation over roofing membrane.
078100	Applied Fire Protection	●					●			●	●		Cementitious and mineral-fiber fire-resistive materials classified as SFRM.
078123	Intumescent Fire Protection	●					●			●	●		Mastic and intumescent fire-resistive coatings.
078200	Board Fire Protection	●								●	●		Mineral-fiber and calcium silicate boards.
078413	Penetration Firestopping	●			●	●				●	●		Systems installed in fire-resistance-rated walls, horizontal assemblies, and smoke barriers.
078443	Joint Firestopping	●								●	●		Systems installed in or between fire-rated construction, at exterior curtain wall/floor intersections, and in smoke barriers.
079100	Preformed Joint Seals	●								●	●		Expandable foam joint seals, and precured, extruded-silicone joint seals.
079200	Joint Sealants	●		●	●					●	●		Elastomeric joint sealants including, silicone, urethane, STPE, polysulfide, butyl, and latex.
079219	Acoustical Joint Sealants	●		●						●	●		For use in interior sound-rated construction.
079513.13	Interior Expansion Joint Cover Assemblies	●								●	●		Expansion joint cover assemblies for interior floors, walls, and ceilings.
079513.16	Exterior Expansion Joint Cover Assemblies	●								●	●		Expansion joint cover assemblies for exterior building walls, soffits, and parapets.
079513.19	Parking Deck Expansion Joint Cover Assemblies	●								●	●		Expansion joint cover assemblies subject to vehicular traffic.

## DIVISION 08 - OPENINGS

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Section No.	Section Title	Architectural			Building Eng.			Sitework		Multidiscipline			Description
		Arch	Hist	Int	Mech	Elec	Str	Lan	SC	Comp	AE	CX	
080152.61	Wood Window Repairs	•								•	•		Repairing, patching, reglazing, and replacing window components, storm windows, shutters, insect screens, and trim.
080314	Historic Treatment of Wood Doors		•							•			Repairing, patching, and replacing primary door components, storm doors, storm vestibules, screen doors, and trim.
080351.23	Historic Treatment of Steel Windows		•							•			Repairing, patching, reglazing, and replacing window components and insect screens; new storm windows.
080351.33	Historic Treatment of Aluminum Windows		•							•			Including in-place, on-site or off-site repair and custom-fabricated, replacement work matching the existing.
080352	Historic Treatment of Wood Windows		•							•			Repairing, patching, reglazing, and replacing window components, storm windows, shutters, insect screens, and trim.
081113	Hollow Metal Doors and Frames	•		•						•	•		Hollow-metal doors and frames for commercial and residential use.
081119	Stainless-Steel Doors and Frames	•								•	•		Stainless-steel units for aesthetic, cleanliness, or corrosive applications.
081173	Sliding Metal Fire Doors	•		•						•	•		Horizontally sliding doors of composite, hollow-metal, and tubular-frame construction.
081213	Hollow Metal Frames	•		•						•	•		Hollow-metal frames for commercial and residential use.
081216	Aluminum Frames	•		•						•	•		Interior frames for wood or aluminum doors and glazing in gypsum-board partitions.
081316.13	Aluminum Terrace Doors	•								•	•		For terrace or balcony access; aluminum, inward or outward swing.
081416	Flush Wood Doors	•		•						•	•		Wood-veneer, hardboard, and plastic-laminate-faced flush wood doors.
081433	Stile and Rail Wood Doors	•		•						•	•		Stock and custom stile and rail wood doors, included fire-rated doors.
081433.13	Wood Terrace Doors	•								•	•		For exterior locations; aluminum or vinyl clad or unclad.
081713	Integrated Metal Door Opening Assemblies	•								•	•		Doors and frames fabricated from steel and metallic-coated steel provided with door hardware as a complete assembly.
083113	Access Doors and Frames	•		•	•	•				•	•		Wall and ceiling units.
083113.53	Security Access Doors and Frames	•			•	•				•	•		Medium-, high-, and maximum-security units for walls and ceilings.
083213	Sliding Aluminum-Framed Glass Doors	•								•	•		For exterior locations.
083213.13	Multipanel Sliding Aluminum-Framed Glass Doors	•								•	•		Aluminum-framed sliding glass doors that utilize multiple panels, for use in large exterior openings.
083219	Sliding Wood-Framed Glass Doors	•								•	•		For exterior locations.
083219.13	Multipanel Sliding Wood-Framed Glass Doors	•								•	•		Wood-framed sliding glass doors that utilize multiple panels, for use in large exterior openings.
083313	Coiling Counter Doors	•		•						•	•		Overhead-coiling galvanized-steel, stainless-steel, and aluminum curtain assemblies.
083323	Overhead Coiling Doors	•		•						•	•		Galvanized-steel, stainless-steel, and aluminum curtain assemblies.
083326	Overhead Coiling Grilles	•		•						•	•		Open-curtain and closed-curtain assemblies.
083343	Overhead Coiling Smoke Curtains	•								•	•		Smoke-protective curtains for elevator entrances and draft curtains for smoke control.

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Section No.	Section Title	Architectural			Building Eng.			Sitework		Multidiscipline			Description
		Arch	Hlst	Int	Mech	Elec	Str	Lan	SC	Comp	AE	CX	
083344	Overhead Coiling Fire Curtains	●								●	●		Fire- and smoke-protective curtain assemblies for non-egress opening protection and smoke barriers.
083459	Vault Doors and Day Gates	●								●	●		Vault and file-room doors and gates for protecting records from fire.
083463	Detention Doors and Frames	●								●	●		Hollow-metal detention doors and frames, including swinging and sliding doors.
083473.13	Metal Sound Control Door Assemblies	●		●	●					●	●		Assemblies consisting of steel doors, steel frames, and sound control seals.
083473.16	Wood Sound Control Door Assemblies	●		●	●					●	●		Assemblies consisting of wood doors, steel frames, and sound control seals.
083483	Floor Doors	●								●	●		For interior and exterior locations.
083513	Folding Doors	●		●						●	●		Accordion and panel folding doors, metal bifold doors, bifold mirror doors, and fire-rated folding doors.
083513.13	Multipanel Folding Aluminum-Framed Glass Doors	●								●	●		Aluminum-framed glass doors with multiple panels, hinged together, for use in large exterior openings.
083519.13	Multipanel Folding Wood-Framed Glass Doors	●								●	●		Wood-framed glass doors with multiple panels, hinged together, for use in large exterior openings.
U 083613	Sectional Doors	●								●	●		Manual and electric garage-type overhead doors with steel, wood, aluminum, and translucent sections.
084113	Aluminum-Framed Entrances and Storefronts	●		●						●	●		Aluminum storefront systems, entrance doors, and hardware.
084126	All-Glass Entrances and Storefronts	●		●						●	●		All-glass entrance doors and hardware, sidelights, and storefronts.
084126.23	Interior All-Glass Entrances	●								●	●		Interior all-glass entrance systems that consist of swinging and sliding entrance doors, sidelights, transoms, fittings and hardware.
084213	Aluminum-Framed Entrances	●		●						●	●		Aluminum entrance doors and hardware.
084226	All-Glass Entrances	●		●						●	●		All-glass entrance doors and hardware, and sidelights.
084229.13	Folding Automatic Entrances	●								●	●		Power-operated one-side opening and biparting units.
U 084229.23	Sliding Automatic Entrances	●								●	●		Power-operated single, biparting, and telescoping units.
084229.33	Swinging Automatic Entrances	●								●	●		Power-operated power-assist and low-energy swinging units.
U 084233	Revolving Door Entrances	●								●	●		Manual, automatic, and access-control units.
084243	Intensive Care Unit/Critical Care Unit (ICU/CCU) Entrances	●		●						●	●		Manual sliding, swinging, and swinging/folding entrance assemblies primarily for individual special-care rooms.
084313	Aluminum-Framed Storefronts	●								●	●		Aluminum storefront systems; also used for window walls, ribbon walls, strip windows, and punched openings.
084413	Glazed Aluminum Curtain Walls	●								●	●		Curtain wall framing; also used for window walls, ribbon walls, strip windows, and punched openings.
084423	Structural-Sealant-Glazed Curtain Walls	●								●	●		2- and 4-sided, structural-sealant-glazed curtain walls.
084433	Sloped Glazing Assemblies	●								●	●		Glazed framing assemblies sloped more than 15 degrees from vertical.
084513	Structured-Polycarbonate-Panel Assemblies	●								●	●		Aluminum-framed assemblies glazed with structured polycarbonate panels.
084523	Fiberglass-Sandwich-Panel Assemblies	●								●	●		Aluminum-framed assemblies glazed with fiberglass sandwich panels.

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Section No.	Section Title	Architectural			Building Eng.			Sitework		Multidiscipline			Description
		Arch	Hlst	Int	Mech	Elec	Str	Lan	SC	Comp	AE	CX	
085113	Aluminum Windows	●								●	●		Stock aluminum windows; most standard types.
085119	Stainless Steel Windows	●								●	●		Cold-rolled windows fabricated from formed stainless-steel sheet.
085123.13	Hot-Rolled Steel Windows	●								●	●		Hot-rolled windows.
085123.23	Cold-Rolled Steel Windows	●								●	●		Cold-rolled windows fabricated from formed sheet metal.
085200	Wood Windows	●								●	●		Stock wood windows; most standard types.
085313	Vinyl Windows	●								●	●		Stock vinyl windows; most standard types.
085413	Fiberglass Windows	●								●	●		Stock fiberglass windows; most standard type.
085653	Security Windows	●								●	●		Vision and transaction windows that are forced-entry and ballistics resistant.
085663	Detention Windows	●								●	●		Windows for applications where persons are forcibly retained.
086100	Roof Windows	●								●	●		Wood, aluminum, and vinyl flat-glass units.
086200	Unit Skylights	●								●	●		Standard factory-assembled units, with or without integral curbs.
086300	Metal-Framed Skylights	●								●	●		Standard- or custom-designed aluminum-framed units with insulating glass or plastic lites.
087100	Door Hardware	●		●						●	●		For specifying door hardware by using a schedule that names products or indicates BHMA designations.
087111	Door Hardware (Descriptive Specification)	●		●						●	●		For specifying door hardware by using a schedule that includes nonproprietary product descriptions.
087113	Automatic Door Operators	●								●	●		Power operators, low-energy power operators, and low-energy power-assist door operators for swinging doors; furnished separately from doors and frames.
087163	Detention Door Hardware	●								●	●		For swinging and sliding detention doors.
088000	Glazing	●		●						●	●		Plain, laminated, and insulating glass.
088113	Decorative Glass Glazing	●		●						●	●		Patterned, enameled, acid-etched, sandblasted, and laminated glass with integral decoration, and glass with film overlay.
088300	Mirrors	●		●						●	●		Unframed, silvered flat glass mirrors including annealed monolithic, film-backed, laminated, and tempered.
088400	Plastic Glazing	●								●	●		Acrylic and polycarbonate glazing sheets.
088813	Fire-Rated Glazing	●		●						●	●		Special tempered glass, film-faced and laminated ceramic glazing, laminated glass with intumescent layers, and gel-filled units.
088853	Security Glazing	●								●	●		Glazing resistant to ballistic attacks, forced entry, detention-security threats, and explosive blast.
089116	Operable Wall Louvers	●				●				●	●		Operable (adjustable) metal louvers including those with insulated blades.
089119	Fixed Louvers	●				●				●	●		Fixed metal louvers.
089516	Wall Vents	●								●	●		Wall vents, also called brick or foundation vents.
<b>DIVISION 09 - FINISHES</b>													
090190.52	Maintenance Repainting	●								●	●		Surface preparation; removing paint; and repainting, staining, and varnishing for redecoration or appearance.
090320	Historic Treatment of Plaster			●						●			Repairing, replacing, and replicating lime and gypsum plasters and cast plaster fabrications.

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Section No.	Section Title	Architectural			Building Eng.			Sitework		Multidiscipline			Description
		Arch	Hlst	Int	Mech	Elec	Str	Lan	SC	Comp	AE	CX	
090353	Historic Treatment of Metal Ceilings		●							●			Repairing and replacing damaged components of nail-up, stamped metal ceilings.
090391	Historic Treatment of Plain Painting		●							●			Surface preparation, removing paint, and painting with historic or modern paints; staining and varnishing.
090394	Historic Treatment of Decorative Painting		●							●			Graining, marbleizing, stenciling, and striping applied over painted or bare substrates.
090395	Historic Treatment of Artistic Painting		●							●			Freehand painting and trompe l'oeil applied over painted or bare substrates.
090398	Historic Treatment of Gilding		●							●			Metallic leaf applied over painted or bare substrates.
090561.13	Moisture Vapor Emission Control	●		●						●	●		Membrane-forming systems that reduce the rate of moisture vapor emission through interior concrete.
092116.23	Gypsum Board Shaft Wall Assemblies	●								●	●		Fire-resistance-rated vertical shaft and horizontal enclosures, including metal framing.
092216	Non-Structural Metal Framing	●		●						●	●		Steel framing for gypsum board and plaster partitions and ceilings.
092300	Gypsum Plastering	●		●						●	●		Gypsum plaster on expanded-metal lath, unit masonry, and concrete.
092400	Cement Plastering	●								●	●		Portland cement plaster (stucco) on metal lath, unit masonry, and concrete; exterior and interior.
092613	Gypsum Veneer Plastering	●		●						●	●		Applied on gypsum base panels, unit masonry, or monolithic concrete.
092713	Glass-Fiber-Reinforced Gypsum Fabrications	●		●						●	●		Factory-molded GRFG units for interior use.
092900	Gypsum Board	●		●						●	●		Interior gypsum board, exterior gypsum board for ceilings and soffits, and tile backing boards.
093013	Ceramic Tiling	●		●						●	●		Ceramic mosaic, quarry, pressed floor, porcelain, and glazed wall tile.
093023	Glass Mosaic Tiling	●		●						●	●		Cast glass, fused glass, and low temperature coated glass tile.
093033	Stone Tiling	●		●						●	●		Thin, modular, cut stone units.
093500	Chemical-Resistant Tiling	●								●	●		Quarry tile set in portland cement mortar, water-cleanable epoxy, or furan mortar.
095113	Acoustical Panel Ceilings	●		●						●	●		Mineral-base, glass-fiber-base, and ceramic- and mineral-base panels with exposed suspension systems.
095123	Acoustical Tile Ceilings	●		●						●	●		Mineral-base tile with concealed suspension systems, and directly attached acoustical tile.
095133	Acoustical Metal Pan Ceilings	●		●						●	●		Lay-in, clip-in, snap-in, and torsion-spring-hinged metal pans with exposed suspension systems.
095423	Linear Metal Ceilings	●		●						●	●		Strip, decorative metal systems.
095436	Suspended Decorative Grids	●		●						●	●		Rigid, open-frame, suspended grid, ceiling systems.
095443	Stretched-Fabric Ceiling Systems	●		●						●	●		Site-assembled and -upholstered fabric systems for ceilings.
095446	Fabric-Wrapped Ceiling Panels	●		●						●	●		Shop-fabricated, fabric-wrapped panels applied to ceilings or suspended.
095753	Security Ceiling Assemblies	●								●	●		Downward-locking-panel and security-plank systems.
096229	Cork Flooring	●		●						●	●		Cork tile, cork engineered tile, and cork rubber tile; cork floating floor system.

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Section No.	Section Title	Architectural			Building Eng.			Sitework		Multidiscipline			Description
		Arch	Hlst	Int	Mech	Elec	Str	Lan	SC	Comp	AE	CX	
096313	Brick Flooring	•		•						•	•		Interior applications only.
096313.35	Chemical-Resistant Brick Flooring	•								•	•		Chemical-resistant mortars, grouts, and brick.
096340	Stone Flooring	•		•				•		•	•		Exterior and interior stone flooring; does not include stone tile.
096400	Wood Flooring	•		•						•	•		Solid- and engineered-wood flooring, field- and factory-finished.
096466	Wood Athletic Flooring	•		•						•	•		Maple flooring and shock-absorbing subfloor assemblies.
096513	Resilient Base and Accessories	•		•						•	•		Resilient base, stair accessories, and molding accessories.
096516	Resilient Sheet Flooring	•		•						•	•		Vinyl and rubber sheet floor coverings.
096519	Resilient Tile Flooring	•		•						•	•		Solid vinyl, rubber, vinyl composition, and resilient terrazzo floor tiles.
096536	Static-Control Resilient Flooring	•		•						•	•		Static-dissipative and static-conductive tile and sheet products.
096543	Linoleum Flooring	•		•						•	•		Linoleum tile and sheet flooring.
096566	Resilient Athletic Flooring	•								•	•		Resilient floor coverings designed for sports-activity areas.
096613	Portland Cement Terrazzo Flooring	•		•						•	•		Poured-in-place portland cement terrazzo and rustic terrazzo flooring, and precast terrazzo units.
096623	Resinous Matrix Terrazzo Flooring	•		•						•	•		Thin-set, epoxy-resin terrazzo flooring and precast terrazzo units.
096723	Resinous Flooring	•								•	•		Fluid-applied monolithic flooring including decorative epoxy and urethane resins.
096766	Fluid-Applied Athletic Flooring	•								•	•		Polyurethane flooring for athletic activity areas.
096813	Tile Carpeting	•		•						•	•		Modular carpet tile for commercial applications.
096816	Sheet Carpeting	•		•						•	•		Tufted and woven commercial carpet and carpet cushion.
096900	Access Flooring	•		•						•	•		Modular floor panels and support systems.
096933	Low-Profile Fixed Height Access Flooring	•		•						•	•		Flooring designed to accommodate power and data wiring beneath the flooring surface.
U 097200	Wall Coverings	•		•						•	•		Vinyl, textile, and woven glass-fiber wall coverings, and wallpaper.
097513	Stone Wall Facing	•		•						•	•		Dimension stone paneling on interior walls and columns, including units with carving or inscriptions.
097519	Stone Trim	•		•						•	•		Dimension stone interior trim, including stone base and window stools.
097713	Stretched-Fabric Wall Systems	•		•						•	•		Site-assembled and -upholstered fabric systems for walls.
097723	Fabric-Wrapped Panels	•		•						•	•		Shop-fabricated, fabric-wrapped, decorative and tackable wall panels not tested for acoustical performance.
098433	Sound-Absorbing Wall Units	•		•						•	•		Shop-fabricated, fabric-wrapped, sound-absorbing, sound-diffusing, and sound-reflecting wall panels tested for acoustical performance.
098436	Sound-Absorbing Ceiling Units	•		•						•	•		Shop-fabricated, fabric-wrapped, sound-absorbing, sound-diffusing, and sound-reflecting panels and sound-absorbing baffle panels applied to ceilings or suspended.
099113	Exterior Painting	•			•	•	•	•	•	•	•		Exterior painting.
099123	Interior Painting	•		•	•	•				•	•		Interior painting.
099300	Staining and Transparent Finishing	•		•				•		•	•		For interior and exterior wood: includes solid-color stains.
099419	Multicolor Interior Finishing	•		•						•	•		Polychromatic paint systems for use on interior vertical surfaces.

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		Arch	Hlst	Int	Mech	Elec	Str	Lan	SC	Comp	AE	CX	
099423	Gilding	●		●							●	●	Interior and exterior oil gilding.
099600	High-Performance Coatings	●		●	●	●	●				●	●	Tile-like coatings for use on exterior and interior substrates.
N 099611	High-Performance Coatings (Proprietary Specification)	●		●	●	●	●				●	●	Tile-like coatings for use on exterior and interior substrates specified by naming manufacturers and products.
099633	High-Temperature-Resistant Coatings	●			●						●	●	Heat-resistant coatings for use on exterior and interior substrates.
099646	Intumescent Painting	●									●	●	Fire-retardant Intumescent paint for combustible substrates reducing flame-spread index of combustible surfaces.
099653	Elastomeric Coatings	●									●	●	Pigmented, water-based, elastomeric coatings for use over concrete, masonry, and stucco.
099726	Cementitious Coatings	●									●	●	Polymer-modified cementitious coatings on masonry and concrete; exterior and interior.
<b>DIVISION 10 - SPECIALTIES</b>													
101100	Visual Display Units	●		●							●	●	Chalkboards, markerboards, tackboards, floor-to-ceiling assemblies and support systems, sliding units, and conference units.
101146	Visual Display Fabrics	●		●							●	●	Fabric-backed-vinyl dry-erase wall coverings.
101200	Display Cases	●		●							●	●	Illuminated and nonilluminated types.
101300	Directories	●		●							●	●	Illuminated and nonilluminated types with changeable message strips or changeable letters.
101416	Plaques	●		●				●			●	●	One-piece, cast or etched, solid-metal plaques.
101419	Dimensional Letter Signage	●		●				●			●	●	Individually mounted dimensional characters and illuminated dimensional characters that are combined to form signs.
101423	Panel Signage	●		●				●			●	●	Panel signs, illuminated panel signs, and field-applied, vinyl-character signs.
101423.16	Room-Identification Panel Signage	●									●	●	Panel signs and sign systems used specifically for room identification; sometimes called "ADA Signs."
101426	Post and Panel/Pylon Signage	●						●			●	●	Illuminated and nonilluminated, freestanding panel signs that are supported by posts or configured as pylons.
101429	Modular Signage	●									●	●	Signs with multiple removable sections, containing text or graphics, attached to a base frame.
101473	Painted Signage	●		●							●	●	Field-lettered signs that are painted directly on substrates.
101700	Telephone Specialties	●		●							●	●	Telephone booths, enclosures, housings, outdoor boxes, kiosks, and directory storage units.
102113.13	Metal Toilet Compartments	●		●							●	●	Painted steel toilet enclosures, entrance screens, and urinal screens.
102113.14	Stainless-Steel Toilet Compartments	●		●							●	●	Stainless-steel toilet enclosures, entrance screens, and urinal screens.
102113.16	Plastic-Laminate-Clad Toilet Compartments	●		●							●	●	Plastic-laminate-clad toilet enclosures, entrance screens, and urinal screens.
102113.17	Phenolic-Core Toilet Compartments	●		●							●	●	Phenolic-core toilet enclosures, entrance screens, and urinal screens.
102113.19	Plastic Toilet Compartments	●		●							●	●	Solid-polymer toilet enclosures, entrance screens, and urinal screens.

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102113.40	Stone Toilet Compartments	•		•						•	•		Marble, granite, and engineered stone toilet enclosures, entrance screens, and urinal screens; plastic-laminate, stainless-steel, and wood doors.
102116.13	Metal Shower and Dressing Compartments	•								•	•		Painted-steel shower and dressing compartments and prefabricated shower receptors.
102116.14	Stainless-Steel Shower and Dressing Compartments	•								•	•		Stainless-steel shower and dressing compartments and prefabricated shower receptors.
102116.17	Phenolic-Core Shower and Dressing Compartments	•								•	•		Phenolic-core shower and dressing compartments and prefabricated shower receptors.
102116.19	Plastic Shower and Dressing Compartments	•								•	•		Solid-plastic shower and dressing compartments and prefabricated shower receptors.
102123	Cubicle Curtains and Track	•		•						•	•		Curtains, tracks, and carriers for hospital cubicles.
102213	Wire Mesh Partitions	•		•						•	•		Standard- and heavy-duty partitions, ceilings, railing insert panels, and equipment barriers.
102219	Demountable Partitions	•		•						•	•		Reusable, site-assembled or unitized-panel demountable partition systems, including solid panels, door panels and doors, glazed panels, and all-glass systems.
102233	Accordion Folding Partitions	•		•						•	•		Acoustically and fire-rated, manually and electrically operated accordion folding partitions.
102239	Folding Panel Partitions	•		•						•	•		Manually and electrically operated panel partitions supported from overhead track; acoustically rated, fire rated, and non-rated; for interior use.
102239.13	Folding Glass-Panel Partitions	•		•						•	•		Manually operated glass-panel partitions supported from an overhead track, for interior use.
102600	Wall and Door Protection	•		•						•	•		Predominantly plastic products and assemblies that protect surfaces of walls, corners, and doors from damage.
102800	Toilet, Bath, and Laundry Accessories	•		•						•	•		Standard commercial, institutional, and residential units.
102813.63	Detention Toilet Accessories	•								•	•		Safety hooks, shelves, combination shelves with safety hooks, and stainless-steel mirrors.
102819	Tub and Shower Enclosures	•		•			•			•	•		Framed and frameless shower doors and enclosures.
104413	Fire Protection Cabinets	•		•		•				•	•		Fire-protection cabinets and security fire-protection cabinets.
104416	Fire Extinguishers	•		•		•				•	•		Portable and wheeled fire extinguishers.
104513	Photoluminescent Egress Path Markings	•								•	•		Luminous egress path markings, used in stairs and exit enclosures, to help occupants exit in an emergency.
105113	Metal Lockers	•		•						•	•		Corridor, athletic, and open-front athletic metal lockers.
105113.13	Coin-Operated Metal Lockers	•		•						•	•		Coin-operated lockers used in public facilities for temporary storage of personal belongings.
105116	Wood Lockers	•		•						•	•		Wood-faced wood lockers.
105123	Plastic-Laminate-Clad Lockers	•		•						•	•		Plastic-laminate-clad wood lockers.
105143	Wire Mesh Storage Lockers	•					•			•	•		Woven wire mesh storage cubicles.
105500.13	Usps-Delivery Postal Specialties	•		•						•	•		United States Postal Service (USPS)-approved postal-delivery and collection equipment.
105500.16	Private-Delivery Postal Specialties	•		•						•	•		Postal-delivery and collection equipment for facilities not serviced by the United States Postal Service (USPS).

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105613	Metal Storage Shelving	•		•						•	•		Freestanding case-type, four-post, and post-and-beam shelving designed to be loaded by hand.
105626	Mobile Storage Shelving	•		•						•	•		Shelving units mounted on wheeled carriages on tracks.
107313	Awnings	•						•		•	•		Fixed and retractable awnings.
107343	Transportation Stop Shelters	•								•	•		Freestanding, modular shelters used for transit passengers, smoking shelters, and other applications.
107516	Ground-Set Flagpoles	•						•		•	•		Aluminum, bronze, stainless-steel, steel, and fiberglass ground-set flagpoles.
107523	Wall-Mounted Flagpoles	•						•		•	•		Aluminum, bronze, stainless-steel, and fiberglass wall-mounted flagpoles.
107526	Roof-Mounted Flagpoles	•						•		•	•		Aluminum, bronze, stainless-steel, steel, and fiberglass roof-mounted flagpoles.
107529	Plaza-Mounted Flagpoles	•						•		•	•		Aluminum, bronze, stainless-steel, and fiberglass plaza-mounted flagpoles.
108316	Banners	•		•				•		•	•		Suspended or tensioned fabrics and films for exterior or interior use, with or without applied graphics.

## DIVISION 11 - EQUIPMENT

110513	Common Motor Requirements for Equipment	•		•		•		•	•	•	•		Universal default values for small and medium, ac motors.
111200	Parking Control Equipment	•								•	•		Automatic barrier gates, vehicle detectors, traffic controllers, ticket dispensers, exit terminals, pay stations, fee computers, management software, and access control units.
111313	Loading Dock Bumpers	•				•				•	•		Laminated-tread, molded- and extruded-rubber, and steel-face dock bumpers.
111316	Loading Dock Seals and Shelters	•				•				•	•		Foam-pad and inflatable dock seals, rigid- and flexible-frame dock shelters, inflatable dock shelters, and transparent curtains.
111319	Stationary Loading Dock Equipment	•								•	•		Built-in recessed, edge-of-dock, top-of-dock, and vertical storing dock levelers, truck restraints, truck levelers, and light-communication systems.
111323	Portable Dock Equipment	•				•				•	•		Built-in, scissors-type, single-leg, hydraulic dock lifts.
111916	Detention Gun Lockers	•								•	•		Secure compartment for storage of firearms.
113013	Residential Appliances	•		•						•	•		Major kitchen and laundry appliances.
113200	Unit Kitchens	•		•						•	•		Standard metal, plastic-laminate, and wood types.
114000	Foodservice Equipment	•		•						•	•		Commercial foodservice equipment.
115123	Library Stack Systems	•								•	•		Steel-bracket, steel four-post, steel-case, and wood-case shelving.
115213	Projection Screens	•		•						•	•		Front projection screens.
115213.19	Rear Projection Screens	•		•						•	•		Rear projection screens.
115313	Laboratory Fume Hoods	•		•		•	•			•	•		Hoods and hood stands, including work tops.
116123	Folding and Portable Stages	•		•						•	•		Portable stage platforms, seating-platform risers, standing choral risers, and acoustical shells for interior use.
116143	Stage Curtains	•		•						•	•		Stage curtain fabrics, draw-curtain tracks, and rigging accessories.
116623	Gymnasium Equipment	•								•	•		Indoor badminton, basketball, volleyball, and exercise equipment, and safety pads.

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		Arch	Hlst	Int	Mech	Elec	Str	Lan	SC	Comp	AE	CX	
116653	Gymnasium Dividers	●								●	●		Gymnasium divider curtains.
116800	Play Field Equipment and Structures	●						●		●	●		Public playground equipment for children aged two through 12.
117300	Patient Care Equipment	●								●	●		Ceiling-mounted patient-lift systems; intravenous tracks, carriers, and bottle holders; patient-bed locators; and patient-bed service walls.
118226	Facility Waste Compactors	●								●	●		Commercial, wet- and dry-waste compactor units.
<b>DIVISION 12 - FURNISHINGS</b>													
122113	Horizontal Louver Blinds	●		●						●	●		Manually and motor-operated horizontal louver blinds.
122116	Vertical Louver Blinds	●		●						●	●		Manually and motor-operated vertical louver blinds.
122200	Curtains and Drapes	●		●						●	●		Draperies and manually operated and motorized drapery tracks.
122413	Roller Window Shades	●		●						●	●		Manually and motor-operated roller shades installed vertically or at skylights.
122416	Pleated Window Shades	●		●						●	●		Manually and motor-operated pleated shades operated from the top down.
123213	Manufactured Wood-Veneer-Faced Casework	●		●						●	●		Standard manufactured wood-veneer-faced casework.
123216	Manufactured Plastic-Laminate-Clad Casework	●		●						●	●		Standard manufactured plastic-laminate-clad casework.
123530	Residential Casework	●		●						●	●		Stock manufactured kitchen and vanity cabinets.
U 123553.13	Metal Laboratory Casework	●		●						●	●		Metal laboratory cabinets including countertops, accessories, and service fittings.
U 123553.16	Plastic-Laminate-Clad Laboratory Casework	●		●						●	●		Plastic-laminate-clad laboratory cabinets including countertops, accessories, and service fittings.
U 123553.19	Wood Laboratory Casework	●		●						●	●		Wood laboratory cabinets including countertops, accessories, and service fittings.
123570	Healthcare Casework	●		●						●	●		Stainless- and enameled-steel healthcare casework.
123616	Metal Countertops	●		●						●	●		Stainless steel countertops, including integral sinks and shelves.
123619	Wood Countertops	●		●						●	●		Wide-width solid-wood, butcher-block, and veneered tops.
123623.13	Plastic-Laminate-Clad Countertops	●		●						●	●		Plastic-laminate countertops.
123640	Stone Countertops	●		●						●	●		Countertops made from dimension stone slabs.
123661.13	Cultured Marble Countertops	●		●						●	●		Cultured marble countertops including integral sinks.
123661.16	Solid Surfacing Countertops	●		●						●	●		Solid surface countertops and sinks.
123661.19	Quartz Agglomerate Countertops	●		●						●	●		Quartz agglomerate countertops.
124813	Entrance Floor Mats and Frames	●		●						●	●		Roll-up (removable) rail mats as well as resilient entrance mats. Frames are also included.
124816	Entrance Floor Grilles	●		●						●	●		Rigid assembly of rail treads set in recessed frames in the floor.
125500	Detention Furniture	●								●	●		Bunks, mattresses, desks, tables, and seating.
126100	Fixed Audience Seating	●		●						●	●		Upholstered and unupholstered assembly-space seating for interior or exterior applications; also continuous lecture-hall tables.
126313	Stadium and Arena Bench Seating	●						●		●	●		Fixed, continuous bench- or plank-type metal seating.
126600	Telescoping Stands	●								●	●		Standard interior systems; manually or automatically operated.

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129200	Interior Planters and Artificial Plants	•		•					•		•	•	Freestanding planters, self-contained subirrigation, and manufactured interior plants.
<b>DIVISION 13 - SPECIAL CONSTRUCTION</b>													
132416	Saunas	•		•							•	•	Modular and precut saunas, with heaters and accessories.
132700	Vaults	•		•							•	•	Factory-fabricated and site-assembled modular vaults; vault doors.
133419	Metal Building Systems	•					•				•	•	Systems consisting of structural framing, roofing and siding panels, and standard components.
133423.16	Fabricated Control Booths	•									•	•	Freestanding steel and aluminum control booths.
134713	Cathodic Protection					•					•	•	Passive corrosion protection for steel and iron pipes and tanks.
134900	Radiation Protection	•									•	•	X-ray, gamma ray, and neutron shielding construction.
<b>DIVISION 14 - CONVEYING EQUIPMENT</b>													
141000	Dumbwaiters	•		•							•	•	Preengineered, hand- and power-operated types.
142100	Electric Traction Elevators	•									•	•	Passenger and service elevators, traction drive, including machine-room-less type.
142113	Electric Traction Freight Elevators	•									•	•	Freight elevators, traction drive, except machine-room-less type.
142123.16	Machine Room-Less Electric Traction Passenger Elevators	•									•	•	Passenger and service elevators, traction drive, machine-room-less type.
142400	Hydraulic Elevators	•									•	•	Passenger and service elevators, direct hydraulic and roped hydraulic units.
142413	Hydraulic Freight Elevators	•									•	•	Freight elevators, direct hydraulic and roped hydraulic units.
142600	Limited-Use/Limited-Application Elevators	•									•	•	LU/LA elevators, hydraulic and roped-hydraulic units.
143100	Escalators	•									•	•	Standard and high-traffic, interior and exterior units.
143200	Moving Walks	•									•	•	Interior and exterior, horizontal or inclined, pallet- or belt-type units.
144119	Stairway Chairlifts	•		•							•	•	Inclined type for public and private-residence use.
144200	Wheelchair Lifts	•									•	•	Vertical and inclined types for public, courtroom, and private-residence use.
149133	Laundry and Linen Chutes	•									•	•	Gravity-type metal chutes for soiled linens.
149182	Trash Chutes	•									•	•	Gravity-type metal chutes and diverters for waste materials.
<b>DIVISION 21 - FIRE SUPPRESSION</b>													
210513	Common Motor Requirements for Fire Suppression Equipment				•						•	•	Universal default values for small and medium, ac motors.
210517	Sleeves and Sleeve Seals for Fire-Suppression Piping				•						•	•	Sleeves and sleeve seals for piping at floor and wall penetrations.
210518	Escutcheons for Fire-Suppression Piping				•						•	•	Escutcheons and floor plates for piping at ceiling, floor, and wall penetrations.
210523	General-Duty Valves for Water-Based Fire-Suppression Piping				•						•	•	Valves common to most fire-protection piping.
210529	Hangers and Supports for Fire Suppression Piping and Equipment				•						•	•	Single and multiple hangers, framing systems, and stands and supports.
210533	Heat Tracing for Fire-Suppression Piping				•						•	•	Electric cables for freeze protection.

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		Arch	Hlst	Int	Mech	Elec	Str	Lan	SC	Comp	AE	CX	
210548	Vibration and Seismic Controls for Fire-Suppression Piping and Equipment				●					●	●		Vibration isolation devices and seismic restraints.
210548.13	Vibration Controls for Fire-Suppression Piping and Equipment				●					●	●		Vibration isolation devices.
210553	Identification for Fire-Suppression Piping and Equipment				●					●	●		Labels, stencils, and tags.
210700	Fire-Suppression Systems Insulation				●					●	●		Equipment and pipe insulation.
210800	Commissioning of Fire Suppression									●		●	Requirements and procedures for commissioning fire suppression systems.
211100	Facility Fire-Suppression Water-Service Piping				●					●	●		Fire-suppression piping and specialties.
211116	Facility Fire Hydrants				●					●	●		AWWA and UL listed dry- and wet-barrel fire hydrants.
211119	Fire Department Connections				●					●	●		Exposed-, flush-, and yard-type fire-department connections.
211200	Fire-Suppression Standpipes				●					●	●		Piping, specialties, valves, hose valves, and hose stations.
211213	Fire-Suppression Hoses and Nozzles				●					●	●		Hoses, reels, and racks for rack- and reel-type hose stations; and fire-suppression monitors.
U 211313	Wet-Pipe Sprinkler Systems				●					●	●		Piping, specialties, valves, and sprinklers for wet-pipe sprinkler systems.
U 211316	Dry-Pipe Sprinkler Systems				●					●	●		Piping, specialties, valves, and sprinklers for dry-pipe and preaction sprinkler systems.
211339	Foam-Water Systems				●					●	●		Fixed, low-expansion, AFFF systems for flammable-liquid fires.
212113.13	High-Pressure, Carbon-Dioxide Fire-Extinguishing Systems				●					●	●		Piping, fittings, and specialties for systems that deliver carbon dioxide for fire extinguishing and suppression.
212113.16	Low-Pressure, Carbon-Dioxide Fire-Extinguishing Systems				●					●	●		Piping, fittings, and specialties for systems that deliver carbon dioxide for fire extinguishing and suppression.
212200	Clean-Agent Fire-Extinguishing Systems				●					●	●		Piping, containers, detection and alarms, and controls for clean-agent systems.
213113	Electric-Drive, Centrifugal Fire Pumps				●					●	●		End-suction, in-line, and split-case fire pumps; accessories, specialties, and flowmeter systems.
213116	Diesel-Drive, Centrifugal Fire Pumps				●					●	●		End-suction, in-line, and split-case fire pumps; accessories, specialties, and flowmeter systems.
213213	Electric-Drive, Vertical-Turbine Fire Pumps				●					●	●		Fire pumps, accessories, specialties, and flowmeter systems.
213216	Diesel-Drive, Vertical-Turbine Fire Pumps				●					●	●		Fire pumps, accessories, specialties, and flowmeter systems.
213413	Pressure-Maintenance Pumps				●					●	●		Multistage, regenerative turbine, submersible, and vertical-turbine pumps; pump controllers.
<b>DIVISION 22 - PLUMBING</b>													
220513	Common Motor Requirements for Plumbing Equipment				●					●	●		Universal default values for small and medium, ac motors.
220516	Expansion Fittings and Loops for Plumbing Piping				●					●	●		Expansion joints and expansion-compensation devices for plumbing piping.
220517	Sleeves and Sleeve Seals for Plumbing Piping				●					●	●		Sleeves and sleeve seals for piping at floor and wall penetrations.
220518	Escutcheons for Plumbing Piping				●					●	●		Escutcheons and floor plates for piping at ceiling, floor, and wall penetrations.
220519	Meters and Gages for Plumbing Piping				●					●	●		Temperature, pressure, and flow.
220523.12	Ball Valves for Plumbing Piping				●					●	●		Ball valves common to multiple systems.

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220523.13	Butterfly Valves for Plumbing Piping				●					●	●		Butterfly valves common to multiple systems.
220523.14	Check Valves for Plumbing Piping				●					●	●		Check valves common to multiple systems.
220523.15	Gate Valves for Plumbing Piping				●					●	●		Gate valves common to multiple systems.
220529	Hangers and Supports for Plumbing Piping and Equipment				●					●	●		Single and multiple hangers, framing systems, and stands and supports.
220533	Heat Tracing for Plumbing Piping				●					●	●		Electric cables for freeze protection, snow and ice melting, and temperature maintenance.
220548	Vibration and Seismic Controls for Plumbing Piping and Equipment				●					●	●		Vibration isolation devices and seismic restraints.
220548.13	Vibration Controls for Plumbing Piping and Equipment				●					●	●		Vibration isolation devices.
220553	Identification for Plumbing Piping and Equipment				●					●	●		Labels, stencils, and tags.
220716	Plumbing Equipment Insulation				●					●	●		Insulation materials, jackets, and installation accessories for plumbing equipment.
220719	Plumbing Piping Insulation				●					●	●		Insulation materials, jackets, and installation accessories for plumbing piping.
220800	Commissioning of Plumbing									●		●	Requirements and procedures for commissioning plumbing systems.
221113	Facility Water Distribution Piping	●			●			●	●	●	●		Utility service, domestic, and fire-protection water, specialties, and valves.
U 221116	Domestic Water Piping				●					●	●		Potable-water distribution within the building.
221117	Gray-Water Piping				●					●	●		Non-potable water piping.
221119	Domestic Water Piping Specialties				●					●	●		Specialties, valves, and fittings for domestic water piping.
221123.13	Domestic-Water Packaged Booster Pumps				●					●	●		Water-pressure boosters, simplex and multi-plex; constant- and variable speed pumps.
221123.21	Inline, Domestic-Water Pumps				●					●	●		In-line separately coupled, close-coupled, centrifugal pumps.
221216	Facility Elevated, Potable-Water Storage Tanks	●			●				●	●	●		Above-ground water storage.
221219	Facility Ground-Mounted, Potable-Water Storage Tanks	●			●				●	●	●		Surface-mounted water storage.
221223.11	Facility Indoor Potable-Water Storage Tanks				●					●	●		Water storage; compression and diaphragm.
221313	Facility Sanitary Sewers	●			●				●	●	●		Sanitary sewerage and underground structures outside the building.
221316	Sanitary Waste and Vent Piping				●					●	●		Soil, waste, and vent piping within the building.
221319	Sanitary Waste Piping Specialties	●			●					●	●		Backwater and air admittance valves, cleanouts, sanitary assemblies, FOG systems, and sanitary drainage specialties.
221319.13	Sanitary Drains				●					●	●		Floor and trench drains, and channel drain systems.
221323	Sanitary Waste Interceptors	●			●				●	●	●		Grease, oil, and sand interceptors for sewerage systems outside the building.
221329	Sanitary Sewerage Pumps				●					●	●		Effluent pumps; automatic, packaged; basins and covers.
221343	Facility Packaged Sewage Pumping Stations	●			●				●	●	●		Pump, compressor, tank, and controls.
221353	Facility Septic Tanks	●			●				●	●	●		Tank, distribution box, and drainage pipe.
221363	Facility Gray-Water Storage Tanks				●					●	●		Above-ground gray-water storage.
221413	Facility Storm Drainage Piping	●			●				●	●	●		Stormwater piping within the building.

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U 221423	Storm Drainage Piping Specialties	●			●			●	●	●	●		Roof drains, cleanouts, trench drains, channel drains, and piping specialties.
221429	Sump Pumps				●					●	●		Submersible, wet-pit volute, and package drainage-pump units; basins and covers.
221463	Facility Storm-Water Retention Tanks				●					●	●		Above-ground storm-water storage.
221513	General-Service Compressed-Air Piping				●					●	●		Nonmedical piping, equipment, and accessories.
221519	General-Service Packaged Air Compressors and Receivers				●					●	●		Nonmedical air compressors, filters, and dryers.
223100	Domestic Water Softeners				●					●	●		Domestic and general use, not treatment.
223200	Domestic Water Filtration Equipment				●					●	●		Separators; and bag, cartridge, carbon, sand, and greensand filters.
223300	Electric, Domestic-Water Heaters				●					●	●		Household and commercial; tankless, instantaneous, and storage types.
223400	Fuel-Fired, Domestic-Water Heaters				●					●	●		Household and commercial; gas and oil fired; instantaneous and storage types.
223500	Domestic-Water Heat Exchangers				●					●	●		Steam and hot-water heat exchangers; instantaneous and storage types.
U 224100	Residential Plumbing Fixtures	●		●	●					●	●		Residential water closets, lavatories, sinks, bathtubs, and shower receptors and basins.
224213.13	Commercial Water Closets	●		●	●					●	●		Commercial water closets, supports, flushometer valves, and supplies.
224213.16	Commercial Urinals	●		●	●					●	●		Commercial urinals, supports, and flushometer valves.
U 224216.13	Commercial Lavatories	●		●	●					●	●		Commercial lavatories, supports, faucets, traps, and supplies.
224216.16	Commercial Sinks	●		●	●					●	●		Commercial sinks, supports, faucets, traps, and supplies.
224223	Commercial Showers	●		●	●					●	●		Shower receptors, basins, enclosures, faucets, and heads.
224233	Wash Fountains	●		●	●					●	●		Stone, metal, and plastic wash fountains.
224300	Healthcare Plumbing Fixtures	●			●					●	●		Plumbing fixtures for healthcare facilities.
224500	Emergency Plumbing Fixtures	●			●					●	●		Individual and combination emergency eyewash and shower units.
224600	Security Plumbing Fixtures	●			●					●	●		Detention facility plumbing fixtures.
224713	Drinking Fountains	●		●	●					●	●		Pedestal, antifreeze pedestal, wheelchair accessible, wall mounted.
224716	Pressure Water Coolers	●		●	●					●	●		Freestanding, wall mounted, and wheelchair accessible.
224723	Remote Water Coolers	●		●	●					●	●		Remote water chillers.
226113	Compressed-Air Piping for Laboratory and Healthcare Facilities				●					●	●		Piping for nonmedical laboratory air, medical air, dental air, instrument air, and medical laboratory air.
226119	Compressed-Air Equipment for Laboratory and Healthcare Facilities				●					●	●		Compressors, filters, and dryers for laboratory and healthcare facilities.
226213	Vacuum Piping for Laboratory and Healthcare Facilities				●					●	●		Piping for laboratory vacuum, medical surgical vacuum, waste anesthetic gas, dental vacuum, oral evacuation, and healthcare laboratory vacuum.
226219	Vacuum Equipment for Laboratory and Healthcare Facilities				●					●	●		Vacuum producers and accessories for laboratory and healthcare facilities.

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		Arch	Hlst	Int	Mech	Elec	Str	Lan	SC	Comp	AE	CX	
226313	Gas Piping for Laboratory and Healthcare Facilities				●					●	●		Piping for CO2, helium, NO2, and O2.
226400	Medical Gas Alarms				●					●	●		Alarms for medical gas systems.
226600	Chemical-Waste Systems for Laboratory and Healthcare Facilities				●					●	●		Single- and double-wall piping and specialties, neutralization tanks, and leak detection.
226713	Processed Water Piping for Laboratory and Healthcare Facilities				●	●				●	●		Pipe, fittings, and valves for reagent, deionized, distilled, and reverse osmosis water.
226719	Processed Water Equipment for Laboratory and Healthcare Facilities				●	●				●	●		Equipment for reagent, deionized, distilled, and reverse osmosis water.

## DIVISION 23 - HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)

230130.52	Existing HVAC Air Distribution System Cleaning				●					●	●		Cleaning existing HVAC air-distribution equipment, ducts, plenums, air outlets and inlets, and duct accessories.
230513	Common Motor Requirements for HVAC Equipment				●					●	●		Universal default values for small and medium, ac motors.
230516	Expansion Fittings and Loops for HVAC Piping				●					●	●		Expansion joints and expansion-compensation devices for HVAC piping.
230517	Sleeves and Sleeve Seals for HVAC Piping				●					●	●		Sleeves and sleeve seals for piping at floor and wall penetrations.
230518	Escutcheons for HVAC Piping				●					●	●		Escutcheons and floor plates for piping at ceiling, floor, and wall penetrations.
230519	Meters and Gages for HVAC Piping				●					●	●		Temperature, pressure, and flow.
230523.11	Globe Valves for HVAC Piping				●					●	●		Globe valves common to multiple systems.
230523.12	Ball Valves for HVAC Piping				●					●	●		Ball valves common to multiple systems.
230523.13	Butterfly Valves for HVAC Piping				●					●	●		Butterfly valves common to multiple systems.
230523.14	Check Valves for HVAC Piping				●					●	●		Check valves common to multiple systems.
230523.15	Gate Valves for HVAC Piping				●					●	●		Gate valves common to multiple systems.
230523.16	Plug Valves for HVAC Piping				●					●	●		Plug valves common to multiple systems.
230529	Hangers and Supports for HVAC Piping and Equipment				●					●	●		Single and multiple hangers, framing systems, and stands and supports.
230533	Heat Tracing for HVAC Piping				●					●	●		Electric cables for freeze protection.
230546	Coatings for HVAC				●					●	●		Antimicrobial UV-C lamp systems for mounting inside HVAC equipment, for treatment of HVAC surfaces.
230548	Vibration and Seismic Controls for HVAC				●					●	●		Vibration isolation devices and seismic restraints.
230548.13	Vibration Controls for HVAC				●					●	●		Vibration isolation devices.
230553	Identification for HVAC Piping and Equipment				●					●	●		Labels, stencils, and tags.
230566	Antimicrobial Ultraviolet Lamp Systems for HVAC				●					●	●		Antimicrobial ultraviolet lamp systems for mounting in air-handling units, fan coil units, and packaged unitary HVAC equipment.
230593	Testing, Adjusting, and Balancing for HVAC				●					●	●		Air distribution and hydronic systems.
230713	Duct Insulation				●					●	●		Insulation materials, jackets, and installation accessories for HVAC ducts.
230716	HVAC Equipment Insulation				●					●	●		Insulation materials, jackets, and installation accessories for HVAC equipment.

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		Arch	Hlst	Int	Mech	Elec	Str	Lan	SC	Comp	AE	CX	
230719	HVAC Piping Insulation				•					•	•		Insulation materials, jackets, and installation accessories for HVAC piping.
230800	Commissioning of HVAC									•		•	Requirements and procedures for commissioning HVAC systems.
U 230923	Direct Digital Control (DDC) System for HVAC				•	•				•	•		Direct digital control system for monitoring and controlling HVAC systems.
230923.11	Control Valves				•					•	•		Control valves and actuators that connect to direct digital control systems.
230923.12	Control Dampers				•					•	•		Control dampers and actuators that connect to direct digital control systems.
230923.13	Energy Meters				•					•	•		Thermal and electric power energy meters that connect to direct digital control systems.
230923.14	Flow Instruments				•					•	•		Airflow and liquid flow sensors, switches and transmitters, and water meters that connect to direct digital control systems.
230923.16	Gas Instruments				•					•	•		Carbon dioxide, oxygen, and VOC gas detection instruments and control devices that connect to direct digital control systems.
230923.17	Level Instruments				•					•	•		Liquid level switches, sensors, and transmitters that connect to direct digital control systems.
230923.18	Leak Detection Instruments				•					•	•		Leak detection switches (point type) and leak detector switches (cable type) that connect to direct digital control systems.
230923.19	Moisture Instruments				•					•	•		Humidity and moisture sensors and transmitters that connect to direct digital control systems.
230923.21	Motion Instruments				•					•	•		PIR, ultrasonic, and dual-technology type motion detection instruments that connect to direct digital control systems.
230923.22	Position Instruments				•					•	•		Limit switches that connect to direct digital control systems.
230923.23	Pressure Instruments				•					•	•		Air and liquid pressure sensors, switches, and transmitters that connect to direct digital control systems.
230923.24	Speed Instruments				•					•	•		Speed switches that connect to direct digital control systems.
230923.27	Temperature Instruments				•					•	•		Air, liquid, and steam temperature sensors, switches, transmitters and thermotats that connect to direct digital control systems.
230923.33	Vibration Instruments				•					•	•		Vibration switches that connect to direct digital control systems.
230923.43	Weather Stations				•					•	•		Weather stations that connect to direct digital control systems.
230993.11	Sequence of Operations for HVAC DDC				•					•	•		Direct digital control sequences for HVAC systems.
231113	Facility Fuel-Oil Piping	•			•					•	•		Fuel-oil piping, valves, specialties; leak-detection and monitoring systems for No. 2 fuel oil.
231123	Facility Natural-Gas Piping	•			•				•	•	•		Natural gas piping and specialties.
231126	Facility Liquefied-Petroleum Gas Piping	•			•				•	•	•		LP gas piping, specialties, and storage equipment.
231213	Facility Fuel-Oil Pumps				•					•	•		Simplex, duplex, and triplex transfer pumps; submersible storage tank pumps; and fuel-oil maintenance systems.
231313	Facility Underground Fuel-Oil Storage Tanks				•					•	•		Steel and FRP UST; accessories; liquid-level gage system; and leak-detection systems.
231323	Facility Aboveground Fuel-Oil Storage Tanks				•					•	•		Vertical, horizontal, containment-dike, insulated, and concrete vaulted steel AST.
U 232113	Hydronic Piping				•					•	•		Pipes, tubes, and fittings for heating and cooling water piping.

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		Arch	Hlst	Int	Mech	Elec	Str	Lan	SC	Comp	AE	CX	
232113.13	Underground Hydronic Piping				●					●	●		Underground piping outside the building.
232113.33	Ground-Loop Heat-Pump Piping	●			●				●	●			Horizontal and vertical, direct-buried, ground-loop piping.
232116	Hydronic Piping Specialties				●					●	●		Specialties and special-duty valves for heating and cooling water piping.
232123	Hydronic Pumps				●					●	●		Base mounted and in-line; close coupled and separately coupled.
232213	Steam and Condensate Heating Piping				●					●	●		Pipes, tubes, and fittings for LP and HP steam piping.
232216	Steam and Condensate Heating Piping Specialties				●					●	●		Specialties and special-duty valves for LP and HP steam piping.
232223	Steam Condensate Pumps				●					●	●		Electric driven and pressure powered; single and duplex pumps with receivers.
232300	Refrigerant Piping				●					●	●		Piping, specialties, and refrigerant.
232500	HVAC Water Treatment				●					●	●		Auto and manual systems for hydronic systems and steam feedwater systems.
232513	Water Treatment for Closed-Loop Hydronic Systems				●					●	●		Auto and manual systems for closed-loop hydronic systems.
232516	Water Treatment for Open-Loop Hydronic Systems				●					●	●		Auto and manual systems for open-loop hydronic systems.
232519	Water Treatment for Steam System Feedwater				●					●	●		Auto and manual systems for steam feedwater systems.
232523	Water Treatment for Humidification Steam System Feedwater				●					●	●		Automatic systems for humidification steam feedwater systems.
232533	HVAC Makeup-Water Filtration Equipment				●					●	●		Water filtration systems for HVAC makeup water systems.
233113	Metal Ducts				●					●	●		Rectangular and round, single- and double-wall ducts, including hangers and supports.
233116	Nonmetal Ducts				●					●	●		Fibrous-glass, PVC, and FRP ducts, hangers, and supports. Does not include fabric.
233119.13	Shop-Fabricated HVAC Casings					●				●	●		Shop-fabricated, single- and double-wall casings used as equipment enclosures and plenums.
233119.16	Manufactured HVAC Casings					●				●	●		Factory-fabricated, double-wall casings used as equipment enclosures and plenums.
U 233300	Air Duct Accessories				●					●	●		Volume dampers, fire and smoke dampers, vanes, duct silencers, and hardware.
233346	Flexible Ducts				●					●	●		Non-insulated and insulated flexible ducts and flexible duct connectors.
233413	Axial HVAC Fans				●					●	●		Tubeaxial and vaneaxial fans.
233416	Centrifugal HVAC Fans				●					●	●		BI & FC indoor type; tubular and in-line units.
233423	HVAC Power Ventilators				●					●	●		Roof, wall, and ceiling-mounting ventilators.
233433.13	Commercial Air Curtains				●					●	●		Commercial air curtain fans over entranceways, with and without heating.
233433.16	Industrial Air Curtains				●					●	●		Industrial air curtain fans over entranceways, with and without heating.
233439	High-Volume, Low-Speed Fans				●					●	●		Large diameter, high-volume, low-speed ceiling fans.
233533	Listed Kitchen Ventilation System Exhaust Ducts				●					●	●		Listed grease ducts.
233600	Air Terminal Units				●					●	●		Single-duct, dual-duct, fan-powered, induction, and diffuser types.
233713.13	Air Diffusers				●					●	●		Round, rectangular, perforated, and linear diffusers.
233713.23	Registers and Grilles				●					●	●		Fixed and adjustable registers and grilles.

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		Arch	Hlst	Int	Mech	Elec	Str	Lan	SC	Comp	AE	CX	
233713.43	Security Registers and Grilles				●					●	●		Security registers and grilles.
233716	Fabric Air-Distribution Devices				●					●	●		Continuous tubular fabric air diffusers, connectors, and accessories.
233723	HVAC Gravity Ventilators				●					●	●		Unpowered ventilators and louver penthouses.
233813	Commercial-Kitchen Hoods				●					●	●		Type I and Type II, Standard and Listed hoods.
234100	Particulate Air Filtration				●					●	●		Disposable, extended surface, and roll types.
234133	High-Efficiency Particulate Air Filtration				●					●	●		High-efficiency particulate air filters, ultralow-penetration air (ULPA) filters, filter frames, and filter gages.
234200	Gas-Phase Air Filtration				●					●	●		Gas adsorbent and rechargeable media, trays and housings, frames, and filter gages.
234300	Electronic Air Cleaners				●					●	●		Electronic air cleaners, access housings, service frames, and filter gages.
235113.11	Draft Control Fans				●					●	●		Induced-draft fans.
235113.16	Vent Dampers				●					●	●		Barometric dampers.
235116	Fabricated Breechings and Accessories				●					●	●		Refractory-lined breechings and field-fabricated breechings.
235123	Gas Vents				●					●	●		Listed double-wall vents.
235133	Insulated Sectional Chimneys				●					●	●		Double-wall and refractory-lined chimneys; fabricated chimneys.
235213	Electric Boilers				●					●	●		HW and steam; HP and LP.
235216	Condensing Boilers				●					●	●		Packaged condensing boilers for small applications.
235223	Cast-Iron Boilers				●					●	●		HW and steam; gas and oil fired.
235233	Water-Tube Boilers				●					●	●		HW and steam; gas and oil fired.
235239	Fire-Tube Boilers				●					●	●		HW and steam; gas and oil fired.
235313	Boiler Feedwater Pumps				●					●	●		Condensate and vacuum pumps and receivers.
235316	Deaerators				●					●	●		Spray, packed column, and package tray.
235413	Electric-Resistance Furnaces				●					●	●		Electric furnaces.
235416.13	Gas-Fired Furnaces				●					●	●		Gas-fired furnaces.
235416.16	Oil-Fired Furnaces				●					●	●		Oil-fired furnaces.
235513.16	Gas-Fired Duct Heaters				●					●	●		Natural gas and propane, duct-mounted units.
235523.13	Low-Intensity, Gas-Fired, Radiant Heaters				●					●	●		Low intensity, gas-fired, indoor and outdoor radiant heaters.
235523.16	High-Intensity, Gas-Fired, Radiant Heaters				●					●	●		High-intensity, gas-fired, indoor and outdoor radiant heaters and patio heaters.
235533.13	Oil-Fired Unit Heaters				●					●	●		Fuel-oil unit heaters with propeller and centrifugal fans.
235533.16	Gas-Fired Unit Heaters				●					●	●		Natural gas and propane unit heaters with propeller and centrifugal fans.
235613.13	Heating, Flat-Plate, Solar Collectors				●					●	●		Liquid-type, medium-temperature, glazed solar panels.
235613.19	Heating, Solar, Vacuum-Tube Collectors				●					●	●		Liquid-type, vacuum-tube solar collectors, accessories, and mountings.
235700	Heat Exchangers for HVAC				●					●	●		Steam to water and water to water; shell-and-tube and flat-plate types.
236200	Packaged Compressor and Condenser Units				●					●	●		Air and water cooled.

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236313	Air-Cooled Refrigerant Condensers				●					●	●		Remote forced-air, condenser, and fan units.
236333	Evaporative Refrigerant Condensers				●					●	●		Induced- and forced-draft evaporative refrigerant condensers.
236413.13	Direct-Fired Absorption Water Chillers				●					●	●		Natural-gas, propane, and oil fired; water cooled; two stages; and a brush-cleaning system.
236413.16	Indirect-Fired Absorption Water Chillers				●					●	●		Steam and hot-water generated; one and two stage.
236416	Centrifugal Water Chillers				●					●	●		Hermetic and open; direct and gear drives; water and air cooled.
236423.13	Air-Cooled, Scroll Water Chillers				●					●	●		Packaged, air-cooled, scroll water chillers.
236423.16	Water-Cooled, Scroll Water Chillers				●					●	●		Packaged, water-cooled, scroll water chillers.
236426.13	Air-Cooled, Rotary-Screw Water Chillers				●					●	●		Packaged, air-cooled indoor and outdoor rotary-screw water chillers.
236426.16	Water-Cooled, Rotary-Screw Water Chillers				●					●	●		Water-cooled, single- and multiple-compressor units.
236513.13	Open-Circuit, Forced-Draft Cooling Towers				●					●	●		Factory-assembled, open-circuit, forced-draft, towers.
236513.16	Closed-Circuit, Forced-Draft Cooling Towers				●					●	●		Factory-assembled, closed-circuit, forced-draft, towers.
236514.13	Open-Circuit, Induced-Draft, Counterflow Cooling Towers				●					●	●		Factory-assembled, open-circuit, induced-draft, counterflow towers.
236514.14	Open-Circuit, Induced-Draft, Crossflow Cooling Towers				●					●	●		Factory-assembled, open-circuit, induced-draft, crossflow towers.
236514.16	Closed-Circuit, Induced-Draft, Counterflow Cooling Towers				●					●	●		Factory-assembled, closed-circuit, induced-draft, counterflow towers.
236514.17	Closed-Circuit, Induced-Draft, Combined-Flow Cooling Towers				●					●	●		Factory-assembled, closed-circuit, induced-draft, combined-flow towers.
237213	Heat Wheel Air-To-Air Energy Recovery Units				●					●	●		Rotary heat wheel, sensible-only or total heat transfer heat exchangers.
237216	Heat Pipe Air-To-Air Energy Recovery Units				●					●	●		Heat pipe, sensible heat, heat exchangers utilizing passive-refrigerant heat transfer.
237219	Fixed Plate Air-To-Air Energy Recovery Units				●					●	●		Fixed plate, sensible and total heat transfer heat exchangers.
237223.13	Packaged Indoor Heat Wheel Energy Recovery Units				●					●	●		Heat wheel heat exchangers in packaged, indoor, energy-recovery units.
237223.19	Packaged Indoor Fixed Plate Energy Recovery Units				●					●	●		Sensible and total heat, fixed-plate heat exchangers in packaged, indoor, energy-recovery units.
237223.23	Packaged, Outdoor, Heat Wheel Energy Recovery Units				●					●	●		Heat wheel in outdoor packaged, sensible heat and total heat, energy-recovery units.
237223.29	Packaged, Outdoor, Fixed Plate Energy Recovery Units				●					●	●		Fixed-plate heat exchanger in outdoor packaged, sensible and total heat, energy-recovery units.
237313.13	Indoor, Basic Air-Handling Units				●					●	●		Units consisting of fans, coils, dampers, filters, control devices, and accessories.
237313.16	Indoor, Semi-Custom Air-Handling Units				●					●	●		Units consisting of fans, coils, dampers, filters, control devices, and accessories.
237313.19	Indoor, Custom Air-Handling Units				●					●	●		Indoor custom units consisting of fans, coils, dampers, filters, control devices, and accessories.
237333.16	Indoor, Indirect, Gas-Fired Heating and Ventilating Units				●					●	●		Indirect, gas-fired H&V units mounted inside the building.
237339	Indoor, Direct-Fired Heating and Ventilating Units				●					●	●		Indoor, direct gas-fired H&V units.

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237343.16	Outdoor, Semi-Custom Air-Handling Units				●					●	●		Units consisting of fans, coils, dampers, filters, control devices, and accessories.
237343.19	Outdoor, Custom Air-Handling Units				●					●	●		Outdoor custom units consisting of fans, coils, dampers, filters, control devices, and accessories.
237416.11	Packaged, Small-Capacity, Rooftop Air-Conditioning Units				●					●	●		Packaged, air-cooled, rooftop HVAC, 6 tons and smaller.
237416.13	Packaged, Large-Capacity, Rooftop Air-Conditioning Units				●					●	●		Packaged, air-cooled, rooftop HVAC 7.5 tons and greater.
237423.13	Packaged, Direct-Fired, Outdoor, Heating-Only Makeup-Air Units				●					●	●		Outdoor, direct gas-fired H&V units.
237423.16	Packaged, Indirect-Fired, Outdoor, Heating-Only Makeup-Air Units				●					●	●		Outdoor, indirect gas-fired H&V units.
U 237433	Dedicated Outdoor-Air Units				●					●	●		Units capable of 100 percent outdoor air with heating and cooling.
238113.11	Packaged Terminal Air-Conditioners, Through-Wall Units				●					●	●		Through-the-wall; cooling only; heat pump; cooling plus hot-water heating, electric heating, and gas-fired heating.
238113.12	Packaged Terminal Air-Conditioners, Freestanding Units				●					●	●		Freestanding or through-the-wall; cooling only; heat pump; cooling plus hot-water heating, electric heating, and gas-fired heating.
238113.13	Packaged Terminal Air-Conditioners, Outdoor, Wall-Mounted Units				●					●	●		Outdoor, wall-mounted; cooling only; heat pump; cooling plus hot-water heating, electric heating, and gas-fired heating.
238119	Self-Contained Air-Conditioners				●					●	●		Packaged cooling, heating, filters, and controls; cabinet suitable for exposed installations.
238123.11	Small Capacity (6 Tons (21 kW) and Smaller), Computer-Room Air-Conditioners, Floor-Mounted Units				●					●	●		Floor-mounted water and air cooled, air conditioning systems for data centers.
238123.12	Large Capacity (7 Tons (25 kW) and Larger), Computer-Room Air-Conditioners, Floor-Mounted Units				●					●	●		Floor-mounted water and air cooled, air conditioning systems for data centers.
238123.13	Computer-Room Air-Conditioners, Ceiling-Mounted Units				●					●	●		Ceiling-mounted water and air cooled, air conditioning systems for data centers.
238123.14	Computer-Room Air-Conditioners, Console Units				●					●	●		Console water and air cooled, air conditioning systems for data centers.
238123.18	Computer-Room, Rack-Cooling Equipment				●					●	●		Water and air cooled, pumped-refrigerant, air conditioning systems for data centers.
238126	Split-System Air-Conditioners				●					●	●		Air-distribution equipment separate from refrigeration equipment; cabinet suitable for exposed installations.
238129	Variable-Refrigerant-Flow HVAC Systems				●					●	●		Variable-refrigerant-flow HVAC systems, components, and operations, including delegated design.
238146	Water-Source Unitary Heat Pumps				●					●	●		Concealed horizontal and vertical units.
238146.13	Water-To-Air Heat Pumps				●					●	●		Concealed horizontal and vertical units; vertical-stack; and exposed-console units.
238213	Valance Heating and Cooling Units				●					●	●		Electric and hot water radiant heaters and heating and cooling panels.
238214	Chilled Beams				●					●	●		Passive and active units.
238216.11	Hydronic Air Coils				●					●	●		Hydronic coils not integral to AHUs.
238216.12	Steam Air Coils				●					●	●		Steam coils not integral to AHUs.
238216.13	Refrigerant Air Coils				●					●	●		Refrigerant coils not integral to AHUs.

N = New U = Update

Section No.	Section Title	Architectural			Building Eng.			Sitework		Multidiscipline			Description
		Arch	Hlst	Int	Mech	Elec	Str	Lan	SC	Comp	AE	CX	
238216.14	Electric-Resistance Air Coils				●					●	●		Electric-resistance coils not integral to AHUs.
238219	Fan Coil Units				●					●	●		Hot water, steam, and electric heating; chilled or DX cooling.
238223	Unit Ventilators				●					●	●		Hot water, steam, and electric heating; chilled or DX cooling.
238229	Radiators				●					●	●		Flat-pipe steel radiators for hot-water, steam, and electric heating systems.
238233	Convectors				●					●	●		Convectors for hot-water, steam, and electric heating systems.
238236	Finned-Tube Radiation Heaters				●					●	●		HW, steam, and electric baseboard and finned-tube radiation heaters.
238239.13	Cabinet Unit Heaters				●					●	●		Cabinet unit heaters with hot-water, steam, and electric-resistance coils.
238239.16	Propeller Unit Heaters				●					●	●		Propeller unit heaters with hot-water, steam, and electric-resistance coils.
238239.19	Wall and Ceiling Unit Heaters				●					●	●		Wall and ceiling electric unit heaters.
238313	Radiant-Heating Electric Cables				●					●	●		Electric cables for ceilings and floors, snow and ice melting, and freezer-floor frost prevention.
238316	Radiant-Heating Hydronic Piping				●					●	●		Embedded pipes, tubes, manifolds, fittings, piping specialties, and controls.
238323	Radiant-Heating Electric Panels				●					●	●		Factory-fabricated panels.
238413.16	Wetted-Element Humidifiers				●					●	●		Water-pressure atomizing humidifiers.
238413.19	Atomizing Humidifiers				●					●	●		Water-pressure or compress-air types.
238413.23	Direct-Steam-Injection Humidifiers				●					●	●		Externally-supplied steam.
238413.29	Self-Contained Steam Humidifiers				●					●	●		Electric resistance, electrode cylinder, and gas-fired steam generator humidifiers.
238413.36	Heat Exchanger Humidifiers				●					●	●		Steam-to-steam humidifiers.
238416.13	Outdoor, Mechanical Dehumidification Units				●					●	●		Outdoor, refrigerant-type mechanical dehumidification equipment.
238416.16	Indoor, Mechanical Dehumidification Units				●					●	●		Indoor, refrigerant-type mechanical dehumidification equipment.

## DIVISION 26 - ELECTRICAL

260513	Medium-Voltage Cables					●				●	●		Cables, splices, terminations, connectors, and fault indicators for 2001 to 35,000 V.
U 260519	Low-Voltage Electrical Power Conductors and Cables					●				●	●		Building wires, cables, connectors, splices, and terminations rated 2000 V and less.
260523	Control-Voltage Electrical Power Cables					●				●	●		Optical-fiber, twisted pair, low-voltage control cabling; and control-circuit conductors.
260526	Grounding and Bonding for Electrical Systems					●				●	●		Methods and materials for grounding systems and equipment.
260529	Hangers and Supports for Electrical Systems					●				●	●		Hangers, supports, and concrete bases.
260533	Raceways and Boxes for Electrical Systems					●				●	●		Conduit; pull, junction, and outlet boxes; and electrical cabinets.
260536	Cable Trays for Electrical Systems					●				●	●		Ladder, trough, and single-rail types; steel, aluminum, stainless steel, and fiberglass.
260539	Underfloor Raceways for Electrical Systems					●				●	●		Ducts, boxes, fittings, and accessories.
260543	Underground Ducts and Raceways for Electrical Systems	●				●			●	●	●		Manholes, handholes, and underground ducts.

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Section No.	Section Title	Architectural			Building Eng.			Sitework		Multidiscipline			Description
		Arch	Hlst	Int	Mech	Elec	Str	Lan	SC	Comp	AE	CX	
260544	Sleeves and Sleeve Seals for Electrical Raceways and Cabling					●				●	●		Sleeves and seals for penetrations through floors and walls.
N 260548	Vibration and Seismic Controls for Electrical Systems					●				●	●		Vibration isolation devices, seismic criteria, seismic restraints and supports.
U 260548.16	Seismic Controls for Electrical Systems					●				●	●		Seismic criteria, seismic restraints and supports.
260553	Identification for Electrical Systems					●				●	●		Labels, markers, tags, ties, tape, bands, and signs.
260573.13	Short-Circuit Studies					●				●	●		Fault-current and protective device short-circuit studies.
260573.16	Coordination Studies					●				●	●		Fault-current and protective device coordination studies.
260573.19	Arc-Flash Hazard Analysis					●				●	●		Fault-current and protective device arc-flash studies.
260800	Commissioning of Electrical Systems									●		●	Requirements and procedures for commissioning electrical systems.
260913	Electrical Power Monitoring and Control					●				●	●		Remote and local monitoring, metering, and control of individual circuits.
U 260923	Lighting Control Devices					●				●	●		Time switches, photoelectric relays, occupancy sensors, and multipole lighting controls.
U 260936	Modular Dimming Controls					●				●	●		Wall-box multiscene and multipreset modular dimming controls.
260943.16	Addressable-Luminaire Lighting Controls					●				●	●		Controls based on digital addressable lighting interface (DALI) technology.
260943.23	Relay-Based Lighting Controls					●				●	●		Panels using relays for switching; panels networked BAS.
261116.11	Secondary Unit Substations with Switchgear Secondary					●				●	●		Indoor and outdoor units, with metal-clad and metal-enclosed switchgear primary, m-v transformers, metal-clad switchgear secondary sections.
261116.12	Secondary Unit Substations with Switchboards Secondary					●				●	●		Indoor and outdoor units; with metal-enclosed switchgear-m-v transformers, metal-enclosed switchboard secondary.
261116.13	Secondary Unit Substations with Motor Control Center Secondary					●				●	●		Indoor and outdoor units; with m-v transformers, and motor-control center secondary.
261213	Liquid-Filled, Medium-Voltage Transformers					●				●	●		MV, substation transformers, with primary and secondary bushings within or without air-terminal enclosures.
261216	Dry-Type, Medium-Voltage Transformers					●				●	●		MV transformers with primary and secondary bushings within or without air-terminal enclosures.
261219	Pad-Mounted, Liquid-Filled, Medium-Voltage Transformers					●				●	●		Liquid-filled, MV transformers, with primary and secondary bushings within or without air-terminal enclosures.
261323	Medium-Voltage, Metal-Enclosed Switchgear					●				●	●		Indoor and outdoor, MV, metal-enclosed switchgear rated more than 1000 V through 38,000 V.
U 261326	Medium-Voltage, Metal-Clad Switchgear					●				●	●		Indoor and outdoor, MV, metal-clad switchgear rated more than 1000 V through 38,000 V.
261329	Medium-Voltage, Pad-Mounted Switchgear					●				●	●		Indoor and outdoor, dead front, remotely controlled insulated vacuum load and fault interrupting switchgear rated to 25,000 V.
262213	Low-Voltage Distribution Transformers					●				●	●		Single- and three-phase distribution dry-type rated 600 V or less and up to 1500 Kva.
262216	Low-Voltage Buck-Boost Transformers					●				●	●		Buck-boost dry-type transformers.
262300	Low-Voltage Switchgear					●				●	●		Metal-enclosed, circuit-breaker type; 1000V and less.
262313	Paralleling Low-Voltage Switchgear					●				●	●		Low-voltage type, 1000V and less; medium-voltage type, 5 to 15 kV; for multiple generator operation.

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Section No.	Section Title	Architectural			Building Eng.			Sitework		Multidiscipline			Description
		Arch	Hlst	Int	Mech	Elec	Str	Lan	SC	Comp	AE	CX	
262413	Switchboards					●				●	●		Service and distribution switchboards, 600 V and less.
262416	Panelboards					●				●	●		Distribution, branch circuit, and surge-suppression panel boards and load centers.
262416.16	Electronically Operated Circuit-Breaker Panelboards					●				●	●		Manual and programmable panelboards with electronically operated circuit breakers using low-voltage or digital control circuits to control equipment.
262419	Motor-Control Centers					●				●	●		Full-reduced-voltage; for constant-, variable-, and multiple-speed motors; 600 V.
262500	Enclosed Bus Assemblies					●				●	●		Plug in & feeder (600 V or less).
262713	Electricity Metering					●				●	●		Energy and demand metering by utility and Owner.
262719	Multi-Outlet Assemblies					●				●	●		Multi-outlet assemblies, including wall-mounted, surface metal raceway multi-outlet assemblies; wall-mounted, surface nonmetallic raceway multi-outlet assemblies; floor-mounted, recessed metal raceway multi-outlet assemblies; indoor service poles; floor-m
262726	Wiring Devices					●				●	●		Switches, receptacles, lighting-control devices, and plates.
262733	Power Distribution Units					●				●	●		Voltage regulators, static electronic voltage regulators, and power distribution units.
262743	Electric-Vehicle Service Equipment - AC Level 1 and Level 2					●				●	●		Charging equipment for AC Level 1 and 2.
262746	Electric Vehicle Service Equipment - DC Level 1 and Level 2					●				●	●		Charging equipment for DC Level 1 and 2.
262813	Fuses					●				●	●		Cartridge type (600 V and less); plug type (125 V and less); fuse adapters; spare-fuse cabinet.
262816	Enclosed Switches and Circuit Breakers					●				●	●		Fusible, nonfusible, receptacle, shunt trip, and molded-case switches; molded-case circuit breakers; enclosures.
262913.03	Manual and Magnetic Motor Controllers					●				●	●		Manual, reduced- and full-voltage start magnetic motor controllers.
262913.06	Soft-Start Motor Controllers					●				●	●		Reduced-voltage start motor controllers.
262923	Variable-Frequency Motor Controllers					●				●	●		Solid-state, pulse-width modulated, constant- and variable-torque; VFCs; rated 600 V and less.
262933	Controllers for Fire-Pump Drivers					●	●			●	●		Full- and limited-service, electric-driver controllers; and diesel-driver controllers.
263100	Photovoltaic Collectors					●				●	●		Photovoltaic laminates, modules, charge controllers, inverters, and mounting structures.
263213.13	Diesel-Engine-Driven Generator Sets					●				●	●		Diesel-driven emergency and standby generators.
263213.16	Gas-Engine-Driven Generator Sets					●				●	●		Natural gas and liquified petroleum (LP)-driven emergency and standby generators.
263213.19	Bi-Fuel-Engine-Driven Generator Sets					●				●	●		Diesel start, natural gas powered emergency and standby generators.
263223.13	Horizontal-Axis Wind Turbines					●				●	●		Horizontal-axis, small-scale wind turbines.
263223.16	Vertical-Axis Wind Turbines					●				●	●		Vertical-axis, small-scale wind turbines.
263323.11	Central Battery Equipment for Emergency Lighting					●				●	●		Central battery equipment for standby power to emergency lighting circuits.
263343	Battery Chargers					●				●	●		Battery chargers used to automatically control and maintain the charge on emergency engine generator start batteries.

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Section No.	Section Title	Architectural			Building Eng.			Sitework		Multidiscipline			Description
		Arch	Hlst	Int	Mech	Elec	Str	Lan	SC	Comp	AE	CX	
263353	Static Uninterruptible Power Supply					●				●	●		3-phase, on-line, double conversion units rated 5 to 750 kVA for systems (600 V and less).
263533	Power Factor Correction Equipment					●				●	●		Capacitors and automatic power-factor correction units for 600 V and less.
263600	Transfer Switches					●				●	●		Automatic, nonautomatic, and bypass/isolation.
264113	Lightning Protection for Structures					●				●	●		Protection for buildings and site components.
264313	Surge Protection for Low-Voltage Electrical Power Circuits					●				●	●		Field-mounted surge protective devices (SPDs) 1000-V and less.
U 265113	Incandescent Interior Lighting					●				●	●		Interior incandescent luminaires and lamps.
265116	Fluorescent Interior Lighting					●				●	●		Interior fluorescent cove, down, flood, wall, linear and track lighting.
U 265119	Led Interior Lighting					●				●	●		Interior chandelier, cove, down, flood, highbay/lowbay/industrial, wall mount, linear, step and track LED lighting systems.
265123	Hid Interior Lighting					●				●	●		Interior highbay, lowbay and industrial HID fixtures.
265213	Emergency and Exit Lighting					●				●	●		Emergency lighting, except for combination LED sign/halogen fixtures.
265561	Theatrical Lighting					●				●	●		Dimmer racks; control console and devices; distribution components; lighting fixtures.
265613	Lighting Poles and Standards					●		●		●	●		Standards and lowering devices for suspension of lighting fixtures and other accessories.
U 265617	Fluorescent Exterior Lighting					●		●		●	●		Exterior fluorescent luminaires, including bollards, boarder, canopy, and decorative post top lighting.
265619	Led Exterior Lighting					●		●		●	●		Exterior LED luminaires, including bollards, boarder, canopy, and decorative post top lighting.
265621	Hid Exterior Lighting					●		●		●	●		Exterior HID luminaires, including area and site, bollards, boarder, canopy, decorative post top, and roadway lighting.
U 265668	Exterior Athletic Lighting					●		●		●	●		Outdoor lighting for sports fields.
<b>DIVISION 27 - COMMUNICATIONS</b>													
270526	Grounding and Bonding for Communications Systems					●				●	●		Grounding for communications systems and equipment; for reliable signal reference.
270528	Pathways for Communications Systems					●				●	●		Conduits, wireways, surface pathways, boxes and enclosures, and handholes and boxes.
270529	Hangers and Supports for Communications Systems					●				●	●		Hangers, supports, and concrete bases.
270536	Cable Trays for Communications Systems					●				●	●		Ladder, trough wire basket, and single-rail type; steel, aluminum, stainless steel, and fiberglass.
270543	Underground Pathways and Structures for Communication Systems					●				●	●		Ducts, pathways, handholes, manholes, and accessories for OSP and CO-OSP.
270544	Sleeves and Sleeve Seals for Communications Pathways and Cabling					●				●	●		Sleeves and seals for penetrations through floors and walls.
N 270548	Vibration and Seismic Controls for Communication Systems					●				●	●		Vibration isolation devices, seismic criteria, seismic restraints and supports
U 270548.16	Seismic Controls for Communications Systems					●				●	●		Seismic criteria, seismic restraints and supports.
270553	Identification for Communications Systems					●				●	●		Labels, markers, tags, ties, tape, bands, and signs.

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Section No.	Section Title	Architectural			Building Eng.			Sitework		Multidiscipline			Description
		Arch	Hlst	Int	Mech	Elec	Str	Lan	SC	Comp	AE	CX	
271100	Communications Equipment Room Fittings					●				●	●		Telecommunications backboards, boxes, and enclosures
271116	Communications Racks, Frames, and Enclosures					●				●	●		19- and 23-inch wide and OpenRack compliant IT racks.
271313	Communications Copper Backbone Cabling					●				●	●		Copper backbone cables, connecting hardware, and cable identification systems.
271323	Communications Optical Fiber Backbone Cabling					●				●	●		Optical fiber backbone cables, connecting hardware, and cable identification systems.
271333	Communications Coaxial Backbone Cabling					●				●	●		Coaxial backbone communications cabling and fittings.
271513	Communications Copper Horizontal Cabling					●				●	●		Copper horizontal cables, connecting hardware, and cable identification systems.
271523	Communications Optical Fiber Horizontal Cabling					●				●	●		Optical fiber horizontal cables, connecting hardware, and cable identification systems.
271533	Communications Coaxial Horizontal Cabling					●				●	●		Coaxial horizontal communications cabling and fittings.
271611	Communications Hybrid Cabling					●				●	●		Combined copper and fiber optic cabling.
274133	Master Antenna Television System					●				●	●		MATV with options for off-air antennas, CATV, or broadcast satellite service.
275116	Public Address Systems					●				●	●		Amplifiers, speakers, and microphones.
275119.11	Sound Masking Systems					●				●			Electronic noise generators, amplifiers, speakers, and controls.
275123.20	Commercial Intercommunications and Program Systems					●				●			Manually and Microprocessor-switched intercommunications and program systems.
275123.31	Residential Intercommunications and Access Control Systems					●				●			Manually and microprocessor-switched intercommunications and access control.
275123.50	Educational Intercommunications and Program Systems					●				●	●		Manually and microprocessor-switched systems.
275223	Nurse Call/Code Blue Systems					●				●			Visual/tone; and microprocessor-based, addressable, audiovisual/voice system.
275313	Clock Systems					●				●			Master and secondary clocks and signal devices; interface with intercom and public address systems.

## DIVISION 28 - ELECTRONIC SAFETY AND SECURITY

281300	Access Control Software and Database Management					●				●			Computer controlled, with interface to other facility management systems.
281500	Access Control Hardware Devices					●				●	●		Push buttons, card readers, and other security hardware.
282000	Video Surveillance					●				●	●		Cameras, data transmission wiring, monitors, and control equipment.
283100	Intrusion Detection					●				●	●		Detection devices, controls, and alarms.
283121	Area and Perimeter Intrusion Detection					●				●	●		Detection devices, controls, and alarms on the site perimeter.
284400	Refrigerant Detection and Alarm					●	●			●	●		Monitors, alarms, breathing apparatus, and ventilation equipment interlocks.
U 284621.11	Addressable Fire-Alarm Systems					●				●	●		Systems with addressable initiating devices and conventional or addressable notification appliances.
284621.13	Conventional Fire-Alarm Systems					●	●			●	●		Small systems for buildings relying on zoned fire-alarm concept.
U 284700	Mass Notification					●				●	●		Mass notification systems for single buildings, multiple buildings on a small campus, arenas, athletic or entertainment fields, or other local-area facilities.

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Section No.	Section Title	Architectural			Building Eng.			Sitework		Multidiscipline			Description
		Arch	Hlst	Int	Mech	Elec	Str	Lan	SC	Comp	AE	CX	
U 285211	Detention Monitoring and Control Systems					•				•	•		Monitoring and control of doors, gates, and related items for detention facilities.
<b>DIVISION 31 - EARTHWORK</b>													
311000	Site Clearing	•			•	•		•	•	•	•		Clearing, grubbing, vegetation protection, stripping and stockpiling topsoil and rock, and disconnecting utilities.
312000	Earth Moving	•			•	•	•	•	•	•	•		Excavating, filling and backfilling, compacting, and grading.
312319	Dewatering	•			•			•		•	•		Temporary construction dewatering requirements for ground-water control.
313116	Termite Control	•						•		•	•		Chemical soil treatment, borate wood treatment, bait stations, and permanent metal mesh barriers.
315000	Excavation Support and Protection	•					•	•		•	•		Temporary systems; soldier piles and lagging, sheet piling, tiebacks, and bracing.
316213	Concrete Piles	•					•			•	•		Driven precast, prestressed concrete piles.
316216	Steel Piles	•					•			•	•		Driven steel H-section piles.
316219	Timber Piles	•					•			•	•		Driven preservative-treated round timber piles.
316223	Composite Piles	•					•			•	•		Driven concrete-filled steel shell and steel pipe piles.
316316	Auger Cast Grout Piles	•					•			•	•		Piles excavated by auger drilling and filled with grout.
316329	Drilled Concrete Piers and Shafts	•					•			•	•		Dry-installed and slurry-displacement-installed types.
<b>DIVISION 32 - EXTERIOR IMPROVEMENTS</b>													
321216	Asphalt Paving	•			•	•		•	•	•	•		Paving, overlays, surface treatments, asphalt curbs, asphalt traffic-calming devices, cold milling, and hot-mix patching.
321223	Imprinted Asphalt	•			•	•		•	•	•	•		Embossing patterns in new or existing asphalt pavement.
321313	Concrete Paving	•			•	•		•	•	•	•		Concrete curbs and gutters, walks, driveways, parking lots, and miscellaneous paving.
321316	Decorative Concrete Paving	•						•	•	•	•		Surface-imprinted, stamped, stencil-patterned, or stained finish concrete paving.
321373	Concrete Paving Joint Sealants	•						•	•	•	•		Sealants for concrete and asphalt pavement joints.
321400	Unit Paving	•						•	•	•	•		Brick, asphalt, concrete, and stone pavers on aggregate, mortar, and bituminous setting beds.
321443	Porous Unit Paving	•						•	•	•	•		Concrete, grid-type and interlocking type with openings between units.
321713	Parking Bumpers	•			•	•		•	•	•	•		Wheel stops applied to asphalt or concrete pavement.
321716	Manufactured Traffic-Calming Devices	•			•	•		•		•	•		Preformed rubber or plastic traffic-calming devices applied to asphalt or concrete pavement.
321723	Pavement Markings	•			•	•		•	•	•	•		Painted markings applied to asphalt or concrete pavement.
321726	Tactile Warning Surfacing	•						•	•	•	•		Detectable warning tiles and mats located in concrete walkways; detectable warning pavers.
321813	Synthetic Grass Surfacing	•						•		•	•		Synthetic grass surfacing, or artificial turf, intended for use in sports.
321816.13	Playground Protective Surfacing	•						•		•	•		Impact-attenuating, protective surfacing for use under public playground equipment.

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Section No.	Section Title	Architectural			Building Eng.			Sitework		Multidiscipline			Description
		Arch	Hlst	Int	Mech	Elec	Str	Lan	SC	Comp	AE	CX	
323113	Chain Link Fences and Gates	●			●	●		●	●	●	●		Standard chain-link fencing systems with swing or horizontal-slide gates and gate operators.
323113.53	High-Security Chain Link Fences and Gates	●							●	●	●		High-security chain-link fencing systems with swing or horizontal-slide gates and gate operators.
323116	Welded Wire Fences and Gates	●						●		●	●		Metallic-coated-steel, welded-wire fences and gates.
323119	Decorative Metal Fences and Gates	●						●		●	●		Manufactured and custom-designed fences and gates made from steel, aluminum, or metallic-coated steel.
323119.53	Decorative Metal Security Fences and Gates	●						●		●	●		Metallic-coated-steel security fences and gates.
323223	Segmental Retaining Walls	●					●	●	●	●			Dry-laid concrete masonry unit retaining walls.
323300	Site Furnishings	●						●		●	●		Seating, tables, bicycle racks and lockers, trash and ash receptacles, planters, and bollards for outdoor locations.
328400	Planting Irrigation	●			●			●	●	●	●		Heads, pipes, and controls.
329113	Soil Preparation	●						●	●	●	●		Planting soils specified according to quantities of amendments (compost, lime, sulfur, fertilizer, etc.); layered soil assemblies.
329115	Soil Preparation (Performance Specification)	●						●	●	●	●		Planting soils specified according to tested performance requirements (particle size, organic matter percentage, pH, CEC, fertility, etc.); layered soil assemblies.
329200	Turf and Grasses	●						●	●	●	●		Seeded, sodded, plugged, and sprigged turf and meadows; pesticides; erosion-control materials; turf renovation; and grass paving.
329300	Plants	●						●	●	●	●		Nursery-grown trees and other plants, pesticides, tree stabilization, tree watering devices, landscape edgings, and tree grates.
329600	Transplanting	●						●	●	●	●		Transplanting non-nursery-grown trees; tree stabilization; watering devices.

## DIVISION 33 - UTILITIES

330500	Common Work Results for Utilities	●			●			●	●	●	●		Basic piping materials and methods.
331113	Potable Water Supply Wells				●	●				●	●		Drilled and driven wells and well pumps.
334200	Stormwater Conveyance				●				●	●	●		Gravity and forced storm piping, underground structures, and specialties.
334600	Subdrainage	●			●			●	●	●	●		Drainage for foundations, underslabs, plaza decks, retaining walls, and landscaped areas.
334713	Pond and Reservoir Liners	●						●	●	●	●		Geomembrane liners and covers.
336313	Underground Steam and Condensate Distribution Piping				●					●	●		Underground piping serving one or more buildings.
337149.13	Overhead Medium-Voltage Wiring					●				●	●		Medium and secondary voltage (up to 35 kV).
337753	Medium-Voltage Utility Reclosers					●				●	●		Overhead, automatic circuit reclosers.

N = New U = Update

**Legend:**

Arch = Architecture Library

Hist = Historic Preservation Library

Int = Interiors Library

Mech = Mechanical Library

Elec = Electrical Library

Str = Structural Library

Lan = Landscape Architecture Library

SC = Site Civil Library

Comp = Comprehensive Library

AE = Building A/E Library

CX = Commissioning Library

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