

Section No.	Section Title	Section Description
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### DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS

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.

### DIVISION 01 - GENERAL REQUIREMENTS

010000	General Requirements	Evaluations: Role of Division 1 Sections, their preparation and coordination.
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.

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Section No.	Section Title	Section Description
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.
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.
014000	Quality Requirements	Quality-assurance and -control requirements, special tests and inspections, and Contractor's quality-control plan.
U 014200	References	Common definitions and terms; and acronyms and trade names of associations, government agencies, and other entities referenced in MasterSpec.
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.
N 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.
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.
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.
018113.14	Sustainable Design Requirements - LEED v4 BD+C	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.
018113.17	Sustainable Design Requirements - LEED v4 ID+C	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.

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Section No.	Section Title	Section Description
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

U 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.

### DIVISION 03 - CONCRETE

U 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.
N 031000	Concrete Forming and Accessories	General building and structural applications; concrete formwork and waterstops.
N 032000	Concrete Reinforcing	General building and structural applications; concrete reinforcing.
U 033000	Cast-In-Place Concrete	General building and structural applications; concrete mixtures, finishing, and curing.
033053	Miscellaneous Cast-In-Place Concrete	Cast-in-place concrete for limited applications.
U 033300	Architectural Concrete	Specially formed, placed, and finished architectural concrete.
U 033543	Polished Concrete Finishing	Ground and polished concrete floor slabs, including stained and polished concrete.
U 033713	Shotcrete	Pneumatically applied concrete, dry- and wet-mix processes.
U 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.
U 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.

### DIVISION 04 - MASONRY

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.

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Section No.	Section Title	Section Description
040140.61	Stone Repair	Nonhistoric applications for stone masonry.
040140.62	Stone Repointing	Nonhistoric applications for stone masonry.
U 042000	Unit Masonry	CMU, brick, structural-clay facing tile, and stone trim units.
U 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.
U 042613	Masonry Veneer	Brick veneer over wood- or metal-stud backup.
U 044200	Exterior Stone Cladding	Exterior stone panels.
U 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.

### DIVISION 05 - METALS

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.
U 051200	Structural Steel Framing	Structural steel framing for buildings.
051213	Architecturally Exposed Structural Steel Framing	Architecturally exposed structural steel framing for buildings.
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.
U 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.
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.
U 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.

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Section No.	Section Title	Section Description
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

061000	Rough Carpentry	Wood framing, furring, frouds, 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.
U 062013	Exterior Finish Carpentry	Exposed and nonstructural.
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.
064113	Wood-Veneer-Faced Architectural Cabinets	Custom-made veneer-faced cabinets.
064116	Plastic-Laminate-Clad Architectural Cabinets	Custom-made plastic-laminate cabinets.
064214	Stile and Rail Wood Paneling	Solid-wood and veneered stile and rail paneling; transparent finished and opaque finished.
064216	Flush Wood Paneling	Veneer-faced flush panels.
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.

### DIVISION 07 - THERMAL AND MOISTURE PROTECTION

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.
U 071326	Self-Adhering Sheet Waterproofing	Self-adhering, positive-side sheet waterproofing; drainage panels; pedestal-supported concrete pavers.
U 071353	Elastomeric Sheet Waterproofing	Butyl and EPDM sheet; drainage panels; pedestal-supported concrete pavers.
U 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.
U 071616	Crystalline Waterproofing	Crystal-forming, reactive cementitious waterproofing.
071619	Metal Oxide Waterproofing	Expanding iron-oxide, cementitious waterproofing.

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Section No.	Section Title	Section Description
U 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-resistive 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.
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.
U 075113	Built-Up Asphalt Roofing	Hot built-up asphalt roofing; roofing insulation.
U 075116	Built-Up Coal Tar Roofing	Hot built-up coal-tar roofing; roofing insulation.

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Section No.	Section Title	Section Description
U 075213	Atactic-Polypropylene (APP) Modified Bituminous Membrane Roofing	APP-modified bituminous membrane roofing; roofing insulation.
U 075216	Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing	SBS-modified bituminous membrane roofing; roofing insulation.
U 075316	Chlorosulfonate-Polyethylene (CSPE) Roofing	Adhered, mechanically fastened, and loosely laid CSPE systems.
U 075323	Ethylene-Propylene-Diene-Monomer (EPDM) Roofing	Adhered, self-adhered, mechanically fastened, and loosely laid EPDM systems.
U 075416	Ketone Ethylene Ester (KEE) Roofing	Adhered, mechanically fastened, and loosely laid KEE systems.
U 075419	Polyvinyl-Chloride (PVC) Roofing	Adhered, mechanically fastened, and loosely laid PVC systems.
U 075423	Thermoplastic-Polyolefin (TPO) Roofing	Adhered, self-adhered, mechanically fastened, and loosely laid TPO systems.
U 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.
U 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.
U 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 Fireproofing	Cementitious and mineral-fiber fire-resistive materials classified as SFRM.
078123	Intumescent Fireproofing	Mastic and intumescent fire-resistive coatings.
078200	Board Fireproofing	Mineral-fiber and calcium silicate boards.
U 078413	Penetration Firestopping	Systems installed in fire-resistance-rated walls, horizontal assemblies, and smoke barriers.
U 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.

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Section No.	Section Title	Section Description
079513.19	Parking Deck Expansion Joint Cover Assemblies	Expansion joint cover assemblies subject to vehicular traffic.
<b>DIVISION 08 - OPENINGS</b>		
080152.61	Wood Window Repairs	Repairing, patching, reglazing, and replacing window components, storm windows, shutters, insect screens, and trim.
U 081113	Hollow Metal Doors and Frames	Hollow-metal doors and frames for commercial and residential use.
U 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.
U 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.
U 081433.13	Wood Terrace Doors	For exterior locations; aluminum or vinyl clad or unclad.
U 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.
083219	Sliding Wood-Framed Glass Doors	For exterior locations.
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.
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.
U 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.
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.
084213	Aluminum-Framed Entrances	Aluminum entrance doors and hardware.
084226	All-Glass Entrances	All-glass entrance doors and hardware, and sidelights.
U 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.

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Section No.	Section Title	Section Description
U 084229.33	Swinging Automatic Entrances	Power-operated power-assist and low-energy swinging units.
084233	Revolving Door Entrances	Manual, automatic, and access-control units.
U 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.
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.
U 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-Resistant 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.

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Section No.	Section Title	Section Description
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.
U 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.
U 093013	Ceramic Tiling	Ceramic mosaic, quarry, pressed floor, porcelain, and glazed wall tile.
U 093023	Glass Mosaic Tiling	Cast glass, fused glass, and low temperature coated glass tile.
U 093033	Stone Tiling	Thin, modular, cut stone units.
U 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.
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.
U 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.

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Section No.	Section Title	Section Description
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.
U 096813	Tile Carpeting	Modular carpet tile for commercial applications.
U 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.
097200	Wall Coverings	Vinyl, textile, and woven glass-fiber wall coverings, and wallpaper.
U 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.
099423	Gilding	Interior and exterior oil gilding.
099600	High-Performance Coatings	Tile-like coatings for use on exterior and interior substrates.
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.

### DIVISION 10 - SPECIALTIES

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Section No.	Section Title	Section Description
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.
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.

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Section No.	Section Title	Section Description
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.
U 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).
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.
U 107343	Transportation Stop Shelters	Freestanding, modular shelters used for transit passengers, smoking shelters, and other applications.
U 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.
U 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.
U 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.

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Section No.	Section Title	Section Description
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.
U 116623	Gymnasium Equipment	Indoor badminton, basketball, volleyball, and exercise equipment, and safety pads.
116653	Gymnasium Dividers	Gymnasium divider curtains.
U 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.

### DIVISION 12 - FURNISHINGS

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.
123553.13	Metal Laboratory Casework	Metal laboratory cabinets including countertops, accessories, and service fittings.
123553.16	Plastic-Laminate-Clad Laboratory Casework	Plastic-laminate-clad laboratory cabinets including countertops, accessories, and service fittings.
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.

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Section No.	Section Title	Section Description
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.
129200	Interior Planters and Artificial Plants	Freestanding planters, self-contained subirrigation, and manufactured interior plants.

### DIVISION 13 - SPECIAL CONSTRUCTION

132416	Saunas	Modular and precut saunas, with heaters and accessories.
U 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.
U 133423.16	Fabricated Control Booths	Freestanding steel and aluminum control booths.
134713	Cathodic Protection	Passive corrosion protection for steel and iron pipes and tanks.
U 134900	Radiation Protection	X-ray, gamma ray, and neutron shielding construction.

### DIVISION 14 - CONVEYING EQUIPMENT

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.

### DIVISION 21 - FIRE SUPPRESSION

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 Fire Protection Piping	Valves common to most fire-protection piping.

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Section No.	Section Title	Section Description
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.
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 outside the building.
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.
211313	Wet-Pipe Sprinkler Systems	Piping, specialties, valves, and sprinklers for wet-pipe sprinkler systems.
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.

### DIVISION 22 - PLUMBING

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.
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.

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Section No.	Section Title	Section Description
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.
U 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.
U 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.
U 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.
U 221413	Facility Storm Drainage Piping	Stormwater piping within the building.
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.
U 223300	Electric, Domestic-Water Heaters	Household and commercial; tankless, instantaneous, and storage types.

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Section No.	Section Title	Section Description
U 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.
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.
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.
U 224713	Drinking Fountains	Pedestal, antifreeze pedestal, wheelchair accessible, wall mounted.
U 224716	Pressure Water Coolers	Freestanding, wall mounted, and wheelchair accessible.
224723	Remote Water Coolers	Remote water chillers.
U 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.
U 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.
U 226313	Gas Piping for Laboratory and Healthcare Facilities	Piping for CO <sub>2</sub> , helium, NO <sub>2</sub> , and O <sub>2</sub> .
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.
226700	Processed Water Systems for Laboratory and Healthcare Facilities	Pipe, fittings, and specialties for deionized, distilled, and reverse osmosis water.
N 226713	Processed Water Piping for Laboratory and Healthcare Facilities	Pipe, fittings, and valves for reagent, deionized, distilled, and reverse osmosis water.
N 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.

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Section No.	Section Title	Section Description
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.
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.
230719	HVAC Piping Insulation	Insulation materials, jackets, and installation accessories for HVAC piping.
230800	Commissioning of HVAC	Requirements and procedures for commissioning HVAC systems.
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 thermostats that connect to direct digital control systems.

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Section No.	Section Title	Section Description
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.
U 231113	Facility Fuel-Oil Piping	Fuel-oil piping, valves, specialties; leak-detection and monitoring systems for No. 2 fuel oil.
U 231123	Facility Natural-Gas Piping	Natural gas piping and specialties.
U 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.
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.
U 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.
U 232300	Refrigerant Piping	Piping, specialties, and refrigerant.
U 232500	HVAC Water Treatment	Auto and manual systems for hydronic systems and steam feedwater systems.
U 232513	Water Treatment for Closed-Loop Hydronic Systems	Auto and manual systems for closed-loop hydronic systems.
U 232516	Water Treatment for Open-Loop Hydronic Systems	Auto and manual systems for open-loop hydronic systems.
U 232519	Water Treatment for Steam System Feedwater	Auto and manual systems for steam feedwater systems.
U 232523	Water Treatment for Humidification Steam System Feedwater	Automatic systems for humidification steam feedwater systems.
U 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.
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.

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Section No.	Section Title	Section Description
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.
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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Section No.	Section Title	Section Description
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.
U 237313.13	Indoor, Basic Air-Handling Units	Units consisting of fans, coils, dampers, filters, control devices, and accessories.
U 237313.16	Indoor, Semi-Custom Air-Handling Units	Units consisting of fans, coils, dampers, filters, control devices, and accessories.
U 237333.16	Indoor, Indirect, Gas-Fired Heating and Ventilating Units	Indirect, gas-fired H&V units mounted inside the building.
U 237339	Indoor, Direct-Fired Heating and Ventilating Units	Indoor, direct gas-fired H&V units.
U 237343.16	Outdoor, Semi-Custom Air-Handling Units	Units consisting of fans, coils, dampers, filters, control devices, and accessories.
U 237416.11	Packaged, Small-Capacity, Rooftop Air-Conditioning Units	Packaged, air-cooled, rooftop HVAC, 6 tons and smaller.
U 237416.13	Packaged, Large-Capacity, Rooftop Air-Conditioning Units	Packaged, air-cooled, rooftop HVAC 7.5 tons and greater.
U 237423.13	Packaged, Direct-Fired, Outdoor, Heating-Only Makeup-Air Units	Outdoor, direct gas-fired H&V units.
U 237423.16	Packaged, Indirect-Fired, Outdoor, Heating-Only Makeup-Air Units	Outdoor, indirect gas-fired H&V units.
237433	Dedicated Outdoor-Air Units	Units capable of 100 percent outdoor air with heating and cooling.

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Section No.	Section Title	Section Description
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.
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.

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Section No.	Section Title	Section Description
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.
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.
260544	Sleeves and Sleeve Seals for Electrical Raceways and Cabling	Sleeves and seals for penetrations through floors and walls.
260548.16	Seismic Controls for Electrical Systems	Seismic criteria and 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.
260923	Lighting Control Devices	Time switches, photoelectric relays, occupancy sensors, and multipole lighting controls.
260933	Central Dimming Controls	Control network and stations, dimmer cabinets, and dimmers.
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.

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Section No.	Section Title	Section Description
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.
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.
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.
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 Emergency Engine Generators	Diesel-driven emergency and standby generators.
263213.14	Diesel Engine Generators	Diesel-driven non-emergency (prime and industrial) generators.
263213.16	Gaseous Emergency Engine Generators	Natural gas and liquified petroleum (LP)-driven emergency and standby generators.
263213.17	Gaseous Engine Generators	Natural gas and liquified petroleum (LP)-driven non-emergency (prime and industrial) engine generators.

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Section No.	Section Title	Section Description
263213.19	Bi-Fuel Emergency Engine Generators	Diesel start, natural gas powered emergency and standby generators.
263213.20	Bi-Fuel Engine Generators	Diesel start, natural gas powered prime and industrial engine 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.
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.
265113	Incandescent Interior Lighting	Interior incandescent luminaires and lamps.
265116	Fluorescent Interior Lighting	Interior fluorescent cove, down, flood, wall, linear and track lighting.
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.
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.
265668	Exterior Athletic Lighting	Outdoor lighting for sports fields.

### DIVISION 27 - COMMUNICATIONS

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.
270548.16	Seismic Controls for Communications Systems	Seismic criteria and seismic restraints and supports.
270553	Identification for Communications Systems	Labels, markers, tags, ties, tape, bands, and signs.
271100	Communications Equipment Room Fittings	Telecommunications backboards, boxes, and enclosures

N = New U = Update

Section No.	Section Title	Section Description
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.
275123.50	Educational Intercommunications and Program Systems	Manually and microprocessor-switched systems.

### DIVISION 28 - ELECTRONIC SAFETY AND SECURITY

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.
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.
284700	Mass Notification Systems	Mass notification systems for single buildings, multiple buildings on a small campus, arenas, athletic or entertainment fields, or other local-area facilities.
285211	Detention Monitoring and Control Systems	Monitoring and control of doors, gates, and related items for detention facilities.

### DIVISION 31 - EARTHWORK

311000	Site Clearing	Clearing, grubbing, vegetation protection, stripping and stockpiling topsoil and rock, and disconnecting utilities.
U 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.

### DIVISION 32 - EXTERIOR IMPROVEMENTS

N = New U = Update

Section No.	Section Title	Section Description
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.
U 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.
U 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.
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

U 330500	Common Work Results for Utilities	Basic piping materials and methods.
331113	Potable Water Supply Wells	Drilled and driven wells and well pumps.
U 334200	Stormwater Conveyance	Gravity and forced storm piping, underground structures, and specialties.

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Section No.	Section Title	Section Description
U 334600	Subdrainage	Drainage for foundations, underslabs, plaza decks, retaining walls, and landscaped areas.
U 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.

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