

| Section No. | Section Title | Issue Date | Section Description |
|-------------|---------------|------------|---------------------|
|-------------|---------------|------------|---------------------|

### DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS

|          |  |       |   |
|----------|--|-------|---|
| 000101   | Project Title Page   | 03/17 | Project Manual title page.  |
| 000107   | Seals Page   | 02/12 | For seals of design professionals on Project Manual.                |
| 000115   | List of Drawing Sheets                                       | 08/10 | List of Drawings.   |
| 000120   | List of Schedules  | 08/10 | For a list of separately bound schedules.                           |
| 001113   | Advertisement for Bids                                       | 08/10 | For use on public projects.   |
| 001115   | Advertisement for Prequalification of Bidders                | 08/10 | For use on public projects.   |
| 001116   | Invitation to Bid  | 08/10 | For use on private projects.  |
| 001153   | Request for Qualifications                                   | 02/12 | For use on public projects.   |
| 002113   | Instructions to Bidders                                      | 08/10 | Incorporates AIA A701 by reference.                                 |
| 002213   | Supplementary Instructions to Bidders                        | 08/10 | For use with AIA A701.  |
| 002513   | Prebid Meetings  | 08/10 | Sets date, time, place, and terms for prebid meetings.              |
| 002600   | Procurement Substitution Procedures                          | 08/10 | Substitution procedures during bidding.                             |
| 003113   | Preliminary Schedules  | 09/16 | Preliminary schedules.  |
| 003119   | Existing Condition Information                               | 08/10 | References documents for survey and as-built information.           |
| 003126   | Existing Hazardous Material Information                      | 08/10 | References documents for existing hazardous materials.              |
| 003132   | Geotechnical Data  | 06/17 | References documents for geotechnical data.                         |
| 003143   | Permit Application   | 08/10 | Indicates responsibility for building permit application.           |
| U 004113 | Bid Form - Stipulated Sum (Single-Prime Contract)            | 12/17 | Fixed price, single prime.  |
| U 004116 | Bid Form - Stipulated Sum (Multiple-Prime Contract)          | 12/17 | Fixed price, multiple prime.  |
| U 004123 | Bid Form - Construction Management (Single-Prime Contract)   | 12/17 | Fixed price, construction management, single prime.                 |
| U 004126 | Bid Form - Construction Management (Multiple-Prime Contract) | 12/17 | Fixed price, construction management, multiple prime.               |
| U 004133 | Bid Form - Cost-Plus-Fee (Single-Prime Contract)             | 12/17 | Cost plus, with or without guaranteed maximum.                      |
| U 004313 | Bid Security Forms   | 12/17 | References AIA A310.  |
| U 004321 | Allowance Form   | 12/17 | Attachment for Bid Form.  |
| U 004322 | Unit Prices Form   | 12/17 | Attachment for Bid Form.  |
| U 004323 | Alternates Form  | 12/17 | Attachment for Bid Form.  |
| U 004373 | Proposed Schedule of Values Form                             | 12/17 | Attachment for Bid Form.  |
| 004393   | Bid Submittal Checklist                                      | 02/12 | Attachment for Bid Form.  |
| 005100   | Notice of Award  | 02/12 | For notifying successful bidder.                                    |
| U 006000 | Project Forms  | 12/17 | References Agreement, General Conditions, and administrative forms. |
| 009113   | Addenda  | 02/12 | For notifying bidders of changes.                                   |

### DIVISION 01 - GENERAL REQUIREMENTS

|        |                           |       |  |
|--------|---------------------------|-------|--|
| 010000 | General Requirements      | 09/15 | Evaluations: Role of Division 1 Sections, their preparation and coordination.  |
| 011000 | Summary                   | 09/15 | Summary of the Work, phased construction, purchase contracts, Owner-furnished products, access to site, and work restrictions. |
| 011200 | Multiple Contract Summary | 09/15 | Responsibilities of each contract for the Work, coordination, and temporary facilities and controls.                           |
| 012100 | Allowances                | 09/15 | Provisions for cash allowances including lump-sum, unit cost, contingency, and testing and inspecting allowances.              |

N = New U = Update

| Section No. | Section Title  | Issue Date | Section Description  |
|-------------|--|------------|--|
| 012200      | Unit Prices  | 09/15      | Provisions for unit prices.  |
| 012300      | Alternates   | 09/15      | Provisions for change-of-scope and cost-comparison type alternates.  |
| 012500      | Substitution Procedures  | 09/15      | Procedural requirements for requests for substitutions during construction.  |
| 012600      | Contract Modification Procedures   | 09/15      | Procedural requirements for changes to the Contract.   |
| 012900      | Payment Procedures   | 09/15      | Administrative requirements for Contractor's Applications for Payment.   |
| 013100      | Project Management and Coordination  | 09/15      | Administrative requirements for project meetings; preconstruction, preinstallation, and project closeout conferences; RFIs; and project Web sites. |
| 013200      | Construction Progress Documentation  | 09/15      | Contractor's Construction Schedule including Gantt charts and CPM schedules; and web-based project software.                                       |
| 013233      | Photographic Documentation   | 09/15      | Construction photographs, video recordings, and web-based photographic documentation.  |
| 013300      | Submittal Procedures   | 09/15      | Procedures for Action and Informational Submittals including Delegated-Design Submittals and Submittals Schedule.                                  |
| 013513.16   | Special Project Procedures for Detention Facilities                                    | 09/16      | Special requirements for detention work including responsibilities of a detention specialist.  |
| 013516      | Alteration Project Procedures  | 06/13      | General protection and work procedures for remodeling, renovation, repair, and maintenance work.   |
| 013591      | Historic Treatment Procedures  | 06/17      | General protection and treatment of historic spaces.   |
| 014000      | Quality Requirements   | 09/15      | Quality-assurance and -control requirements, special tests and inspections, and Contractor's quality-control plan.                                 |
| 014200      | References   | 03/17      | Common definitions and terms; and acronyms and trade names of associations, government agencies, and other entities referenced in MasterSpec.      |
| 015000      | Temporary Facilities and Controls  | 09/17      | Temporary utilities and facilities for construction support, security, and protection.   |
| 015639      | Temporary Tree and Plant Protection  | 02/13      | Construction-phase tree and plant protection, trimming, protection- zone fencing, and pruning.   |
| 016000      | Product Requirements   | 09/15      | Administrative and procedural requirements for product, material, and equipment selection and handling; warranties; and comparable products.       |
| 017300      | Execution  | 09/15      | General requirements for product installation, cutting and patching, protection, field engineering, and progress cleaning.                         |
| 017419      | Construction Waste Management and Disposal   | 09/16      | Salvaging, recycling, and disposing of non-hazardous demolition and construction waste.  |
| 017700      | Closeout Procedures  | 03/17      | Contract closeout including Substantial Completion and Final Completion procedures, warranties, and final cleaning.                                |
| 017823      | Operation and Maintenance Data   | 09/15      | Emergency, operation, and maintenance manuals for products and equipment.  |
| 017839      | Project Record Documents   | 09/15      | Record record Drawings, Specifications, and Product Data.  |
| 017900      | Demonstration and Training   | 09/15      | 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 | 03/17      | General requirements and procedures for LEED 2009 for New Construction and Major Renovations.  |
| 018113.14   | Sustainable Design Requirements - LEED v4 BD+C   | 03/17      | General requirements and procedures for LEED v4 BD+C.  |
| 018113.16   | Sustainable Design Requirements - LEED 2009 for Commercial Interiors                   | 03/17      | General requirements and procedures for LEED 2009 for Commercial Interiors.  |

N = New U = Update

| Section No. | Section Title  | Issue Date | Section Description  |
|-------------|--|------------|--|
| 018113.17   | Sustainable Design Requirements - LEED v4 ID+C                             | 03/17      | General requirements and procedures for LEED v4 ID+C.  |
| 018113.19   | Sustainable Design Requirements - LEED 2009 for Core and Shell Development | 03/17      | General requirements and procedures for LEED 2009 for Core and Shell Development.                        |
| 018113.23   | Sustainable Design Requirements - LEED 2009 for Schools                    | 03/17      | General requirements and procedures for LEED 2009 for Schools.   |
| 018113.33   | Sustainable Design Requirements - IgCC                                     | 06/14      | General requirements and procedures for IgCC.  |
| 018113.43   | Sustainable Design Requirements - ASHRAE 189.1                             | 06/14      | General requirements and procedures for ASHRAE 189.1.  |
| 018113.53   | Sustainable Design Requirements - Green Globes                             | 06/14      | General requirements and procedures for Green Globes.  |
| 019113      | General Commissioning Requirements   | 06/16      | Administrative requirements and procedures for commissioning all systems.                                |
| 019119.43   | Exterior Enclosure Commissioning   | 06/15      | Requirements for testing building enclosure systems and assemblies as part of the commissioning process. |

### DIVISION 02 - EXISTING CONDITIONS

|           |                                  |       |  |
|-----------|----------------------------------|-------|--|
| 024116    | Structure Demolition             | 12/13 | Demolition of existing buildings, structures, and associated site improvements.                      |
| 024119    | Selective Demolition             | 06/14 | Demolition of selected portions of existing buildings, structures, and associated site improvements. |
| 024296    | Historic Removal and Dismantling | 03/15 | Special types of selective demolition work for historic spaces and surfaces.                         |
| 028716.13 | Bird Excrement Removal           | 03/15 | Removal of bird excrement in historic or nonhistoric buildings.                                      |

### DIVISION 03 - CONCRETE

|          |  |       |  |
|----------|--|-------|--|
| 030130   | Maintenance of Cast-In-Place Concrete  | 03/14 | Concrete patching and repair, epoxy crack injection, corrosion inhibiting surface treatment, polymer overlays and sealers, and composite structural performance. |
| 033000   | Cast-In-Place Concrete                 | 06/17 | General building and structural applications; concrete mixtures, formwork, reinforcing, finishing, and curing.   |
| U 033053 | Miscellaneous Cast-In-Place Concrete   | 12/17 | Cast-in-place concrete for limited applications.   |
| 033300   | Architectural Concrete                 | 06/14 | Specially formed, placed, and finished architectural concrete.   |
| 033543   | Polished Concrete Finishing            | 06/14 | Ground and polished concrete floor slabs, including stained and polished concrete.   |
| 033713   | Shotcrete                              | 09/14 | Pneumatically applied concrete, dry- and wet-mix processes.  |
| 033816   | Unbonded Post-Tensioned Concrete       | 03/17 | Post-tensioning reinforcement, encapsulated and non-encapsulated.  |
| U 034100 | Precast Structural Concrete            | 12/17 | Conventional precast structural concrete units.  |
| U 034500 | Precast Architectural Concrete         | 12/17 | Precast concrete cladding units, insulated units, and masonry-faced units.   |
| 034713   | Tilt-Up Concrete                       | 06/14 | Wall panels and insulated sandwich panels.   |
| U 034900 | Glass-Fiber-Reinforced Concrete (GFRC) | 12/17 | GFRC cladding panels; panel framing.   |
| 035113   | Cementitious Wood Fiber Decks          | 03/17 | Monolithic, composite, and insulated composite units for roof and form decks.  |
| 035216   | Lightweight Insulating Concrete        | 03/17 | Aggregate and cellular types.  |
| 035300   | Concrete Topping                       | 09/13 | High-strength concrete slab toppings for heavy-duty, industrial-type applications.   |
| 035413   | Gypsum Cement Underlayment             | 06/16 | Self-leveling, gypsum-cement-based underlayment.   |

N = New U = Update

| Section No. | Section Title                 | Issue Date | Section Description                                 |
|-------------|-------------------------------|------------|---|
| 035416      | Hydraulic Cement Underlayment | 06/14      | Self-leveling, hydraulic-cement-based underlayment. |

### DIVISION 04 - MASONRY

|           |  |       |  |
|-----------|--|-------|--|
| 040110    | Masonry Cleaning                             | 02/13 | Nonhistoric applications for unit masonry and stone surfaces.  |
| 040120.63 | Brick Masonry Repair                         | 02/13 | Nonhistoric applications for clay brick masonry.   |
| 040120.64 | Brick Masonry Repointing                     | 06/15 | Nonhistoric applications for clay brick masonry.   |
| 040140.61 | Stone Repair                                 | 11/12 | Nonhistoric applications for stone masonry.  |
| 040140.62 | Stone Repointing                             | 11/12 | Nonhistoric applications for stone masonry.  |
| 040310    | Historic Masonry Cleaning                    | 06/17 | Cleaning and removing paint from clay and stone masonry.   |
| 040322    | Historic Brick Unit Masonry Repair           | 09/17 | Repairing, patching, and replacing brickwork.  |
| 040323    | Historic Brick Unit Masonry Repointing       | 09/17 | Repointing mortar and sealant joints in brickwork.   |
| 040326    | Historic Terra Cotta Unit Masonry Repair     | 09/17 | Repairing, patching, and replacing terra cotta.  |
| 040327    | Historic Terra Cotta Unit Masonry Repointing | 09/17 | Repointing mortar and sealant joints in terra cotta.   |
| 040336    | Historic Treatment of Adobe Masonry          | 06/15 | Repairing and replacing adobe units, plaster, and paint.   |
| 040342    | Historic Stone Masonry Repair                | 09/17 | Repairing, patching, and replacing stone.  |
| 040343    | Historic Stone Masonry Repointing            | 09/17 | Repointing mortar and sealant joints in stonework.   |
| 040345    | Historic Stone Consolidation Treatment       | 09/17 | Chemical consolidation to strengthen stone.  |
| 042000    | Unit Masonry                                 | 03/15 | CMU, brick, structural-clay facing tile, and stone trim units.   |
| 042200    | Concrete Unit Masonry                        | 06/14 | Single-wythe CMU including decorative units.   |
| 042300    | Glass Unit Masonry                           | 06/14 | Glass block installed with mortar, glass block installed with spacers and sealant, and glass-block grid systems. |
| 042613    | Masonry Veneer                               | 03/15 | Brick veneer over wood- or metal-stud backup.  |
| 044200    | Exterior Stone Cladding                      | 03/15 | Exterior stone panels.   |
| 044313.13 | Anchored Stone Masonry Veneer                | 03/15 | Stone laid in mortar and anchored to backup with masonry veneer anchors.   |
| 044313.16 | Adhered Stone Masonry Veneer                 | 03/15 | Stone adhered to backup with mortar; not anchored.   |
| 047200    | Cast Stone Masonry                           | 06/14 | Architectural features, facing, trim, and site accessories.  |

### DIVISION 05 - METALS

|           |   |       |   |
|-----------|---|-------|---|
| 050170.51 | Decorative Metal Cleaning                     | 06/13 | Cleaning and removing paint.  |
| 050170.61 | Decorative Metal Repair                       | 06/17 | Repairing, patching, and replacing components.  |
| 050170.63 | Decorative Metal Refinishing                  | 06/17 | Integral metal finishes and clear protective coatings.                                      |
| 050371    | Historic Decorative Metal Cleaning            | 09/17 | Cleaning and removing paint.  |
| 050372    | Historic Decorative Metal Repair              | 06/17 | Repairing, patching, and replacing decorative metals, other than cast iron and sheet metal. |
| 050373    | Historic Decorative Metal Refinishing         | 09/17 | Integral metal finishes, metallic-plated finishes, and clear protective coatings.           |
| 050374    | Historic Decorative Metal Replication         | 05/12 | Replicating and installing items and assemblies.  |
| 050383    | Historic Cast Iron Repair                     | 06/17 | Filling defects, pinning, metal stitching, replacing components, and refinishing.           |
| 050385    | Historic Treatment of Decorative Formed Metal | 06/15 | Patching, replacing components, and refinishing formed sheet metal.                         |
| 050387    | Historic Treatment of Metal Sculpture         | 06/15 | Patching, repairing, and refinishing copper-alloy and cast-iron sculpture.                  |
| U 051200  | Structural Steel Framing                      | 12/17 | Structural steel framing for buildings.   |

N = New U = Update

| Section No. | Section Title                                    | Issue Date | Section Description   |
|-------------|--|------------|---|
| U 051213    | Architecturally Exposed Structural Steel Framing | 12/17      | Architecturally exposed structural steel framing for buildings.   |
| U 052100    | Steel Joist Framing                              | 12/17      | Standard manufactured open-web units, including steel joists, long-span steel joists, and joist girders.  |
| 053100      | Steel Decking                                    | 12/14      | Roof, floor, and form steel deck.   |
| 054000      | Cold-Formed Metal Framing                        | 12/15      | Load-bearing and exterior non-load-bearing wall studs; floor, ceiling, and roof joists; and rafters.  |
| 054400      | Cold-Formed Metal Trusses                        | 12/15      | Cold-formed steel trusses for roofs and floors.   |
| U 055000    | Metal Fabrications                               | 12/17      | Metal items (not sheet metal) made from iron and steel shapes, stainless steel, and non-ferrous metals.   |
| 055113      | Metal Pan Stairs                                 | 06/17      | Steel stairs with either metal pan or abrasive-finished metal treads.   |
| 055116      | Metal Floor Plate Stairs                         | 06/17      | Steel stairs with metal floor plate treads.   |
| 055119      | Metal Grating Stairs                             | 06/17      | Steel stairs with steel-bar-grating treads.   |
| 055213      | Pipe and Tube Railings                           | 03/16      | Railings fabricated from aluminum, stainless-steel, and steel pipe and tubing.  |
| 055313      | Bar Gratings                                     | 06/14      | Metal bar gratings and frames.  |
| 055316      | Plank Gratings                                   | 06/14      | Metal plank gratings and frames.  |
| 055319      | Expanded Metal Gratings                          | 06/14      | Expanded metal gratings and frames.   |
| 055813      | Column Covers                                    | 06/14      | Spackled-seam and snap-together types, including those intended to be painted and those made form made from decorative metals, such as stainless steel, bronze, and brass.  |
| 055819      | Heating/Cooling Unit Covers                      | 09/16      | Heating-cooling unit enclosures shop fabricated from steel sheet to custom designs.   |
| 055963      | Detention Enclosures                             | 06/16      | Bar-grille and woven-rod-mesh assemblies, and security grilles and vents.   |
| 057000      | Decorative Metal                                 | 06/14      | Custom fabrications from nonferrous and ferrous metals.   |
| 057100      | Decorative Metal Stairs                          | 03/17      | Architectural steel stairs.   |
| 057113      | Fabricated Metal Spiral Stairs                   | 06/14      | Steel and aluminum units with center column and radiating treads.   |
| 057300      | Decorative Metal Railings                        | 06/17      | Ornamental metal railings assembled from either standard or custom components and shapes. Also included are illuminated railings.   |
| 057313      | Glazed Decorative Metal Railings                 | 06/17      | 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                          | 06/14      | Miscellaneous decorative formed metal items that are shop fabricated from metal sheet to custom designs.  |

### DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES

|        |                               |       |  |
|--------|-------------------------------|-------|--|
| 060312 | Historic Wood Repair          | 06/13 | Repairing, patching, and replacing wood components.          |
| 061000 | Rough Carpentry               | 12/16 | Wood framing, furring, frounds, nailers, and blocking.       |
| 061053 | Miscellaneous Rough Carpentry | 03/17 | Minor wood framing, furring, grounds, nailers, and blocking. |
| 061063 | Exterior Rough Carpentry      | 06/14 | Wood fences and other exterior wood construction.            |
| 061300 | Heavy Timber Construction     | 09/16 | Solid timber framing.  |
| 061516 | Wood Roof Decking             | 06/14 | Solid and laminated T & G decking.                           |
| 061533 | Wood Patio Decking            | 06/14 | Elevated decks.  |

N = New U = Update

| Section No. | Section Title                                | Issue Date | Section Description  |
|-------------|--|------------|--|
| 061600      | Sheathing                                    | 06/17      | Roof and wall sheathing, subflooring, and underlayment. Includes wood, non-wood, and composite products. |
| 061753      | Shop-Fabricated Wood Trusses                 | 06/14      | Metal-plate-connected members.   |
| 061800      | Glued-Laminated Construction                 | 12/16      | Glued-laminated structural framing.  |
| 062013      | Exterior Finish Carpentry                    | 06/17      | Exposed and nonstructural.   |
| U 062023    | Interior Finish Carpentry                    | 12/17      | Exposed and nonstructural.   |
| 064013      | Exterior Architectural Woodwork              | 06/17      | Trim, door frames, shutters, and ornamental items.   |
| 064023      | Interior Architectural Woodwork              | 06/17      | Trim, cabinets, tops, paneling, stairs, and ornamental items.  |
| 064113      | Wood-Veneer-Faced Architectural Cabinets     | 06/17      | Custom-made veneer-faced cabinets.   |
| 064116      | Plastic-Laminate-Clad Architectural Cabinets | 06/17      | Custom-made plastic-laminate cabinets.   |
| 064214      | Stile and Rail Wood Paneling                 | 06/17      | Solid-wood and veneered stile and rail paneling; transparent finished and opaque finished.               |
| 064216      | Flush Wood Paneling                          | 12/15      | Veneer-faced flush panels.   |
| 064219      | Plastic-Laminate-Faced Wood Paneling         | 12/15      | Plastic-laminate-faced flush panels.   |
| 064400      | Ornamental Woodwork                          | 06/17      | Miscellaneous shop-assembled woodwork items.   |
| 066400      | Plastic Paneling                             | 06/14      | Plastic paneling for utilitarian applications.   |
| 067413      | Fiberglass Reinforced Gratings               | 02/12      | Fiberglass bar gratings and frames.  |

### DIVISION 07 - THERMAL AND MOISTURE PROTECTION

|           |   |       |  |
|-----------|---|-------|--|
| 070150.19 | Preparation for Reroofing                                   | 12/16 | Preparation for low-slope reroofing - tear-off and re-cover situations.                                  |
| 071113    | Bituminous Dampproofing                                     | 12/16 | Cold-applied, cut-back- (solvent-based) and emulsified- (water-based) asphaltic dampproofing.            |
| 071326    | Self-Adhering Sheet Waterproofing                           | 12/16 | Self-adhering, positive-side sheet waterproofing; drainage panels; pedestal-supported concrete pavers.   |
| 071353    | Elastomeric Sheet Waterproofing                             | 12/16 | Butyl and EPDM sheet; drainage panels; pedestal-supported concrete pavers.                               |
| 071354    | Thermoplastic Sheet Waterproofing                           | 12/16 | PVC sheet; drainage panels; pedestal-supported concrete pavers.  |
| 071413    | Hot Fluid-Applied Rubberized Asphalt Waterproofing          | 03/17 | Hot, rubberized-asphalt waterproofing for plaza deck and below-grade walls.                              |
| 071416    | Cold Fluid-Applied Waterproofing                            | 06/16 | Polyurethane, polyester, and rubber types; drainage panels and plaza-deck pavers.                        |
| 071613    | Polymer Modified Cement Waterproofing                       | 03/17 | Polymer-modified cementitious waterproofing.   |
| 071616    | Crystalline Waterproofing                                   | 03/17 | Crystal-forming, reactive cementitious waterproofing.  |
| 071619    | Metal Oxide Waterproofing                                   | 11/12 | Expanding iron-oxide, cementitious waterproofing.  |
| 071700    | Bentonite Waterproofing                                     | 12/16 | Bentonite sheet membrane and panel waterproofing systems.  |
| 071800    | Traffic Coatings  | 03/15 | Cold liquid-applied water-resistant coatings with integral wearing surface.                              |
| 071900    | Water Repellents  | 09/13 | Clear and pigmented, penetrating, and film-forming, and MPI-approved types.                              |
| 072100    | Thermal Insulation  | 06/17 | General building insulation installed at project site, excluding roof insulation.                        |
| 072119    | Foamed-In-Place Insulation                                  | 09/13 | Spray-applied polyurethane foam insulation.  |
| 072413    | Polymer-Based Exterior Insulation and Finish System (EIFS)  | 12/16 | Composite flexible coating and inner layer of rigid, cellular thermal insulation.                        |
| 072419    | Water-Drainage Exterior Insulation and Finish System (EIFS) | 12/16 | Composite flexible coating and inner layer of extruded-polystyrene board insulation with water drainage. |
| 072500    | Weather Barriers  | 03/14 | Building paper and building wrap water-resistive barriers, drainage materials, and flexible flashing.    |

N = New U = Update

| Section No. | Section Title  | Issue Date | Section Description  |
|-------------|--|------------|--|
| 072600      | Vapor Retarders  | 09/13      | Interior sheet vapor retarders used in framed construction and in crawl spaces.                            |
| 072713      | Modified Bituminous Sheet Air Barriers                               | 12/14      | Vapor-retarding, modified bituminous sheet type.   |
| 072715      | Nonbituminous Self-Adhering Sheet Air Barriers                       | 03/16      | Vapor-retarding and vapor-permeable nonbituminous sheet type.  |
| 072726      | Fluid-Applied Membrane Air Barriers                                  | 12/14      | Vapor-retarding and vapor-permeable high-build, medium-build, and low-build types.                         |
| 073113      | Asphalt Shingles   | 08/12      | Glass-fiber-reinforced asphalt shingles.   |
| 073116      | Metal Shingles   | 06/14      | Shingle panels and individual shingles for roofing and siding.   |
| 073126      | Slate Shingles   | 02/13      | Natural-slate roof shingles, underlayments, flashing, and accessories.                                     |
| 073129      | Wood Shingles and Shakes   | 03/15      | Wood shingles and shakes used as roof covering.  |
| 073213      | Clay Roof Tiles  | 06/14      | Clay tile roofing, underlayments, flashing, and accessories.   |
| 073216      | Concrete Roof Tiles  | 09/14      | Concrete tile roofing, underlayments, flashing, and accessories.   |
| 074113.13   | Formed Metal Roof Panels   | 03/15      | Standard-profile exposed-fastener, lap-seam panels, and horizontal-seam (Bermuda-type) panels.             |
| 074113.16   | Standing-Seam Metal Roof Panels                                      | 03/15      | Standard-profile pans with upturned edges.   |
| 074113.19   | Batten-Seam Metal Roof Panels  | 03/15      | Standard-profile pans with upturned edges covered by separate battens.                                     |
| 074116      | Insulated Metal Roof Panels  | 03/15      | Panels with foamed-insulation cores.   |
| 074213.13   | Formed Metal Wall Panels   | 03/15      | Standard-profile exposed- and concealed-fastener, lap-seam wall and liner panels.                          |
| 074213.16   | Metal Plate Wall Panels  | 09/13      | Aluminum plates secured to buildings with specialized attachment systems.                                  |
| 074213.19   | Insulated Metal Wall Panels  | 03/15      | Panels with foamed-insulation, laminated-insulation, and honeycomb cores.                                  |
| 074213.23   | Metal Composite Material Wall Panels                                 | 09/13      | Panels with metal facings and thin plastic cores secured to buildings with specialized attachment systems. |
| 074293      | Soffit Panels  | 03/15      | Concealed-fastener, lap-seam, metal panels, with and without perforations.                                 |
| 074616      | Aluminum Siding  | 05/12      | Aluminum siding and soffit.  |
| 074619      | Steel Siding   | 05/12      | Steel siding and soffit.   |
| 074624      | Wood Shingle and Shake Siding  | 03/15      | Wood shingles, shakes and wood-shingle-clad panels used as exterior wall cladding (siding).                |
| 074633      | Plastic Siding   | 05/12      | Vinyl siding and soffit.   |
| 074646      | Fiber-Cement Siding  | 09/13      | Fiber-cement siding and soffit.  |
| 075113      | Built-Up Asphalt Roofing   | 03/17      | Hot built-up asphalt roofing; roofing insulation.  |
| 075116      | Built-Up Coal Tar Roofing  | 03/17      | Hot built-up coal-tar roofing; roofing insulation.   |
| 075213      | Atactic-Polypropylene (APP) Modified Bituminous Membrane Roofing     | 03/17      | APP-modified bituminous membrane roofing; roofing insulation.  |
| 075216      | Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing | 03/17      | SBS-modified bituminous membrane roofing; roofing insulation.  |
| 075316      | Chlorosulfonate-Polyethylene (CSPE) Roofing                          | 06/16      | Adhered, mechanically fastened, and loosely laid CSPE systems.   |
| 075323      | Ethylene-Propylene-Diene-Monomer (EPDM) Roofing                      | 06/16      | Adhered, self-adhered, mechanically fastened, and loosely laid EPDM systems.                               |
| 075416      | Ketone Ethylene Ester (KEE) Roofing                                  | 06/16      | Adhered, mechanically fastened, and loosely laid KEE systems.  |
| 075419      | Polyvinyl-Chloride (PVC) Roofing                                     | 06/16      | Adhered, mechanically fastened, and loosely laid PVC systems.  |
| 075423      | Thermoplastic-Polyolefin (TPO) Roofing                               | 09/16      | Adhered, self-adhered, mechanically fastened, and loosely laid TPO systems.                                |

N = New U = Update

| Section No. | Section Title  | Issue Date | Section Description  |
|-------------|--|------------|--|
| 07552.13    | Atactic-Polypropylene (APP) Modified Bituminous Protected Membrane Roofing     | 06/17      | Atactic-polypropylene (APP)-modified protected membrane roofing systems, including roofing membrane, roof insulation, base flashings, aggregate and roof paver ballast, and auxiliary roofing materials.                                 |
| 07552.16    | Styrene-Butadiene-Styrene (SBS) Modified Bituminous Protected Membrane Roofing | 06/17      | Styrene-butadiene-styrene (SBS)-modified bituminous protected membrane roofing systems, including roofing membrane, roof insulation, base flashings, vapor retarders, aggregate and roof paver ballast, and auxiliary roofing materials. |
| 075556      | Fluid-Applied Protected Membrane Roofing                                       | 06/14      | Ballasted, insulated, hot rubberized-asphalt protected roof membrane.  |
| 075700      | Coated Foamed Roofing  | 03/16      | Spray polyurethane foam insulation with elastomeric protective coating for roofing applications.   |
| 076100      | Sheet Metal Roofing  | 09/17      | Custom-fabricated, shop- or field-brake-formed, sheet metal roofing.   |
| 076200      | Sheet Metal Flashing and Trim  | 09/14      | Custom-fabricated roof and wall flashings and roof-drainage systems, and manufactured through-wall flashing and reglets.   |
| 077100      | Roof Specialties   | 03/15      | Manufactured copings, roof-edge flashings and drainage systems, and counter flashings.   |
| 077129      | Manufactured Roof Expansion Joints   | 12/15      | Factory-fabricated, bellows-type, and aluminum roof-expansion-joint assemblies.  |
| U 077200    | Roof Accessories   | 12/17      | Roof curbs, equipment supports, roof hatches, heat and smoke vents, gravity ventilators, pipe supports, roof walkways, and preformed flashing sleeves.   |
| 077253      | Snow Guards  | 06/17      | Pad- and rail-type, flat- or seam-mounted snow guards.   |
| 077273      | Vegetated Roof Systems   | 12/16      | Vegetated roof assemblies for rooftop or plaza installation over roofing membrane.   |
| 078100      | Applied Fireproofing   | 06/14      | Cementitious and mineral-fiber fire-resistive materials classified as SFRM.  |
| 078123      | Intumescent Fireproofing   | 06/14      | Mastic and intumescent fire-resistive coatings.  |
| 078200      | Board Fireproofing   | 12/13      | Mineral-fiber and calcium silicate boards.   |
| 078413      | Penetration Firestopping   | 06/14      | Systems installed in fire-resistance-rated walls, horizontal assemblies, and smoke barriers.   |
| 078443      | Joint Firestopping   | 12/16      | Systems installed in or between fire-rated construction, at exterior curtain wall/floor intersections, and in smoke barriers.  |
| 079100      | Preformed Joint Seals  | 11/12      | Expandable foam joint seals, and precured, extruded-silicone joint seals.  |
| 079200      | Joint Sealants   | 06/14      | Elastomeric joint sealants including, silicone, urethane, STPE, polysulfide, butyl, and latex.   |
| 079219      | Acoustical Joint Sealants  | 06/14      | For use in interior sound-rated construction.  |
| 079513.13   | Interior Expansion Joint Cover Assemblies                                      | 09/14      | Expansion joint cover assemblies for interior floors, walls, and ceilings.   |
| 079513.16   | Exterior Expansion Joint Cover Assemblies                                      | 09/14      | Expansion joint cover assemblies for exterior building walls, soffits, and parapets.   |
| 079513.19   | Parking Deck Expansion Joint Cover Assemblies                                  | 09/14      | Expansion joint cover assemblies subject to vehicular traffic.   |

### DIVISION 08 - OPENINGS

|           |                                  |       |   |
|-----------|----------------------------------|-------|---|
| 080152.61 | Wood Window Repairs              | 06/17 | Repairing, patching, reglazing, and replacing window components, storm windows, shutters, insect screens, and trim. |
| 080314    | Historic Treatment of Wood Doors | 02/13 | Repairing, patching, and replacing primary door components, storm doors, storm vestibules, screen doors, and trim.  |

N = New U = Update



| Section No. | Section Title                             | Issue Date | Section Description   |
|-------------|---|------------|---|
| 080351.23   | Historic Treatment of Steel Windows       | 06/13      | Repairing, patching, reglazing, and replacing window components and insect screens; new storm windows.              |
| 080351.33   | Historic Treatment of Aluminum Windows    | 06/17      | Including in-place, on-site or off-site repair and custom-fabricated, replacement work matching the existing.       |
| 080352      | Historic Treatment of Wood Windows        | 06/17      | Repairing, patching, reglazing, and replacing window components, storm windows, shutters, insect screens, and trim. |
| U 081113    | Hollow Metal Doors and Frames             | 12/17      | Hollow-metal doors and frames for commercial and residential use.   |
| U 081119    | Stainless-Steel Doors and Frames          | 12/17      | Stainless-steel units for aesthetic, cleanliness, or corrosive applications.  |
| U 081173    | Sliding Metal Fire Doors                  | 12/17      | Horizontally sliding doors of composite, hollow-metal, and tubular-frame construction.                              |
| U 081213    | Hollow Metal Frames                       | 12/17      | Hollow-metal frames for commercial and residential use.   |
| 081216      | Aluminum Frames                           | 06/14      | Interior frames for wood or aluminum doors and glazing in gypsum-board partitions.                                  |
| 081316.13   | Aluminum Terrace Doors                    | 12/17      | For terrace or balcony access; aluminum, inward or outward swing.   |
| U 081416    | Flush Wood Doors                          | 12/17      | Wood-veneer, hardboard, and plastic-laminate-faced flush wood doors.  |
| U 081433    | Stile and Rail Wood Doors                 | 12/17      | Stock and custom stile and rail wood doors, included fire-rated doors.  |
| 081433.13   | Wood Terrace Doors                        | 06/17      | For exterior locations; aluminum or vinyl clad or unclad.   |
| U 083113    | Access Doors and Frames                   | 12/17      | Wall and ceiling units.   |
| 083113.53   | Security Access Doors and Frames          | 03/14      | Medium-, high-, and maximum-security units for walls and ceilings.  |
| 083213      | Sliding Aluminum-Framed Glass Doors       | 02/13      | For exterior locations.   |
| 083219      | Sliding Wood-Framed Glass Doors           | 06/17      | For exterior locations.   |
| U 083313    | Coiling Counter Doors                     | 12/17      | Overhead-coiling galvanized-steel, stainless-steel, and aluminum curtain assemblies.                                |
| U 083323    | Overhead Coiling Doors                    | 12/17      | Galvanized-steel, stainless-steel, and aluminum curtain assemblies.   |
| 083326      | Overhead Coiling Grilles                  | 06/16      | Open-curtain and closed-curtain assemblies.   |
| 083459      | Vault Doors and Day Gates                 | 03/17      | Vault and file-room doors and gates for protecting records from fire.   |
| 083463      | Detention Doors and Frames                | 09/16      | Hollow-metal detention doors and frames, including swinging and sliding doors.                                      |
| 083473.13   | Metal Sound Control Door Assemblies       | 11/11      | Assemblies consisting of steel doors, steel frames, and sound control seals.  |
| 083473.16   | Wood Sound Control Door Assemblies        | 06/14      | Assemblies consisting of wood doors, steel frames, and sound control seals.   |
| U 083483    | Floor Doors                               | 12/17      | For interior and exterior locations.  |
| 083513      | Folding Doors                             | 03/17      | Accordion and panel folding doors, metal bifold doors, bifold mirror doors, and fire-rated folding doors.           |
| 083613      | Sectional Doors                           | 09/14      | Manual and electric garage-type overhead doors with steel, wood, aluminum, and translucent sections.                |
| 084113      | Aluminum-Framed Entrances and Storefronts | 09/16      | Aluminum storefront systems, entrance doors, and hardware.  |
| 084126      | All-Glass Entrances and Storefronts       | 06/14      | All-glass entrance doors and hardware, sidelights, and storefronts.   |
| 084213      | Aluminum-Framed Entrances                 | 09/16      | Aluminum entrance doors and hardware.   |
| U 084226    | All-Glass Entrances                       | 12/17      | All-glass entrance doors and hardware, and sidelights.  |

N = New U = Update

| Section No. | Section Title  | Issue Date | Section Description   |
|-------------|--|------------|---|
| 084229.13   | Folding Automatic Entrances                                | 12/16      | Power-operated one-side opening and biparting units.  |
| 084229.23   | Sliding Automatic Entrances                                | 12/16      | Power-operated single, biparting, and telescoping units.  |
| 084229.33   | Swinging Automatic Entrances                               | 12/16      | Power-operated power-assist and low-energy swinging units.  |
| 084233      | Revolving Door Entrances                                   | 03/17      | Manual, automatic, and access-control units.  |
| 084243      | Intensive Care Unit/Critical Care Unit (ICU/CCU) Entrances | 12/16      | Manual sliding, swinging, and swinging/folding entrance assemblies primarily for individual special-care rooms.   |
| 084313      | Aluminum-Framed Storefronts                                | 09/16      | Aluminum storefront systems; also used for window walls, ribbon walls, strip windows, and punched openings.   |
| U 084413    | Glazed Aluminum Curtain Walls                              | 12/17      | Curtain wall framing; also used for window walls, ribbon walls, strip windows, and punched openings.  |
| 084423      | Structural-Sealant-Glazed Curtain Walls                    | 06/14      | 2- and 4-sided, structural-sealant-glazed curtain walls.  |
| 084433      | Sloped Glazing Assemblies                                  | 06/14      | Glazed framing assemblies sloped more than 15 degrees from vertical.  |
| 084513      | Structured-Polycarbonate-Panel Assemblies                  | 06/14      | Aluminum-framed assemblies glazed with structured polycarbonate panels.   |
| 084523      | Fiberglass-Sandwich-Panel Assemblies                       | 06/14      | Aluminum-framed assemblies glazed with fiberglass sandwich panels.  |
| 085113      | Aluminum Windows   | 12/16      | Stock aluminum windows; most standard types.  |
| 085119      | Stainless Steel Windows                                    | 03/15      | Cold-rolled windows fabricated from formed stainless-steel sheet.   |
| U 085123.13 | Hot-Rolled Steel Windows                                   | 12/17      | Hot-rolled windows.   |
| U 085123.23 | Cold-Rolled Steel Windows                                  | 12/17      | Cold-rolled windows fabricated from formed sheet metal.   |
| 085200      | Wood Windows   | 06/17      | Stock wood windows; most standard types.  |
| 085313      | Vinyl Windows  | 06/17      | Stock vinyl windows; most standard types.   |
| 085413      | Fiberglass Windows   | 06/17      | Stock fiberglass windows; most standard type.   |
| 085653      | Security Windows   | 06/16      | Vision and transaction windows that are forced-entry and ballistics resistant.  |
| 085663      | Detention Windows  | 06/16      | Windows for applications where persons are forcibly retained.   |
| 086100      | Roof Windows   | 06/14      | Wood, aluminum, and vinyl flat-glass units.   |
| 086200      | Unit Skylights   | 05/10      | Standard factory-assembled units, with or without integral curbs.   |
| 086300      | Metal-Framed Skylights                                     | 06/17      | Standard- or custom-designed aluminum-framed units with insulating glass or plastic lites.  |
| 087100      | Door Hardware  | 12/17      | For specifying door hardware by using a schedule that names products or indicates BHMA designations.  |
| 087111      | Door Hardware (Descriptive Specification)                  | 06/17      | For specifying door hardware by using a schedule that includes nonproprietary product descriptions.   |
| U 087113    | Automatic Door Operators                                   | 12/17      | 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                                    | 12/16      | For swinging and sliding detention doors.   |
| 088000      | Glazing  | 12/15      | Plain, laminated, and insulating glass.   |
| 088113      | Decorative Glass Glazing                                   | 06/14      | Patterned, enameled, acid-etched, sandblasted, and laminated glass with integral decoration, and glass with film overlay.                               |
| 088300      | Mirrors  | 06/17      | Unframed, silvered flat glass mirrors including annealed monolithic, film-backed, laminated, and tempered.  |

N = New U = Update

| Section No. | Section Title          | Issue Date | Section Description  |
|-------------|------------------------|------------|--|
| 088400      | Plastic Glazing        | 06/14      | Acrylic and polycarbonate glazing sheets.  |
| 088813      | Fire-Resistant Glazing | 06/14      | Special tempered glass, film-faced and laminated ceramic glazing, laminated glass with intumescent layers, and gel-filled units. |
| 088853      | Security Glazing       | 06/14      | Glazing resistant to ballistic attacks, forced entry, detention-security threats, and explosive blast.                           |
| 089116      | Operable Wall Louvers  | 09/16      | Operable (adjustable) metal louvers including those with insulated blades.   |
| 089119      | Fixed Louvers          | 09/16      | Fixed metal louvers.   |
| 089516      | Wall Vents             | 09/16      | Wall vents, also called brick or foundation vents.   |

### DIVISION 09 - FINISHES

|           |  |       |   |
|-----------|--|-------|---|
| 090190.52 | Maintenance Repainting                     | 06/14 | Surface preparation; removing paint; and repainting, staining, and varnishing for redecoration or appearance. |
| 090320    | Historic Treatment of Plaster              | 03/17 | Repairing, replacing, and replicating lime and gypsum plasters and cast plaster fabrications.                 |
| 090353    | Historic Treatment of Metal Ceilings       | 06/15 | Repairing and replacing damaged components of nail-up, stamped metal ceilings.                                |
| 090391    | Historic Treatment of Plain Painting       | 06/14 | Surface preparation, removing paint, and painting with historic or modern paints; staining and varnishing.    |
| 090394    | Historic Treatment of Decorative Painting  | 06/13 | Graining, marbleizing, stenciling, and striping applied over painted or bare substrates.                      |
| 090395    | Historic Treatment of Artistic Painting    | 06/13 | Freehand painting and trompe l'oeil applied over painted or bare substrates.                                  |
| 090398    | Historic Treatment of Gilding              | 05/12 | Metallic leaf applied over painted or bare substrates.  |
| 090561.13 | Moisture Vapor Emission Control            | 12/14 | Membrane-forming systems that reduce the rate of moisture vapor emission through interior concrete.           |
| 092116.23 | Gypsum Board Shaft Wall Assemblies         | 03/15 | Fire-resistance-rated vertical shaft and horizontal enclosures, including metal framing.                      |
| 092216    | Non-Structural Metal Framing               | 12/15 | Steel framing for gypsum board and plaster partitions and ceilings.   |
| 092300    | Gypsum Plastering                          | 06/14 | Gypsum plaster on expanded-metal lath, unit masonry, and concrete.  |
| 092400    | Cement Plastering                          | 06/14 | Portland cement plaster (stucco) on metal lath, unit masonry, and concrete; exterior and interior.            |
| 092613    | Gypsum Veneer Plastering                   | 03/16 | Applied on gypsum base panels, unit masonry, or monolithic concrete.  |
| 092713    | Glass-Fiber-Reinforced Gypsum Fabrications | 09/16 | Factory-molded GRFG units for interior use.   |
| 092900    | Gypsum Board                               | 03/17 | Interior gypsum board, exterior gypsum board for ceilings and soffits, and tile backing boards.               |
| 093013    | Ceramic Tiling                             | 12/16 | Ceramic mosaic, quarry, pressed floor, porcelain, and glazed wall tile.                                       |
| 093023    | Glass Mosaic Tiling                        | 09/16 | Cast glass, fused glass, and low temperature coated glass tile.   |
| 093033    | Stone Tiling                               | 09/14 | Thin, modular, cut stone units.   |
| 093500    | Chemical-Resistant Tiling                  | 06/14 | Quarry tile set in portland cement mortar, water-cleanable epoxy, or furan mortar.                            |
| 095113    | Acoustical Panel Ceilings                  | 09/14 | Mineral-base, glass-fiber-base, and ceramic- and mineral-base panels with exposed suspension systems.         |
| 095123    | Acoustical Tile Ceilings                   | 09/14 | Mineral-base tile with concealed suspension systems, and directly attached acoustical tile.                   |
| 095133    | Acoustical Metal Pan Ceilings              | 09/16 | Lay-in, clip-in, snap-in, and torsion-spring-hinged metal pans with exposed suspension systems.               |
| 095423    | Linear Metal Ceilings                      | 06/15 | Strip, decorative metal systems.  |

N = New U = Update

| Section No. | Section Title                            | Issue Date | Section Description  |
|-------------|--|------------|--|
| 095436      | Suspended Decorative Grids               | 06/15      | Rigid, open-frame, suspended grid, ceiling systems.  |
| 095443      | Stretched-Fabric Ceiling Systems         | 06/14      | Site-assembled and -upholstered fabric systems for ceilings.   |
| 095446      | Fabric-Wrapped Ceiling Panels            | 06/14      | Shop-fabricated, fabric-wrapped panels applied to ceilings or suspended.   |
| 095753      | Security Ceiling Assemblies              | 06/16      | Downward-locking-panel and security-plank systems.   |
| 096229      | Cork Flooring                            | 03/16      | Cork tile, cork engineered tile, and cork rubber tile; cork floating floor system.   |
| 096313      | Brick Flooring                           | 06/14      | Interior applications only.  |
| 096313.35   | Chemical-Resistant Brick Flooring        | 06/13      | Chemical-resistant mortars, grouts, and brick.   |
| 096340      | Stone Flooring                           | 03/15      | Exterior and interior stone flooring; does not include stone tile.   |
| 096400      | Wood Flooring                            | 06/17      | Solid- and engineered-wood flooring, field- and factory-finished.  |
| 096466      | Wood Athletic Flooring                   | 06/17      | Maple flooring and shock-absorbing subfloor assemblies.  |
| 096513      | Resilient Base and Accessories           | 03/16      | Resilient base, stair accessories, and molding accessories.  |
| 096516      | Resilient Sheet Flooring                 | 03/16      | Vinyl and rubber sheet floor coverings.  |
| 096519      | Resilient Tile Flooring                  | 03/16      | Solid vinyl, rubber, vinyl composition, and resilient terrazzo floor tiles.  |
| 096536      | Static-Control Resilient Flooring        | 06/14      | Static-dissipative and static-conductive tile and sheet products.  |
| 096543      | Linoleum Flooring                        | 03/16      | Linoleum tile and sheet flooring.  |
| 096566      | Resilient Athletic Flooring              | 06/14      | Resilient floor coverings designed for sports-activity areas.  |
| 096613      | Portland Cement Terrazzo Flooring        | 12/15      | Poured-in-place portland cement terrazzo and rustic terrazzo flooring, and precast terrazzo units.   |
| 096623      | Resinous Matrix Terrazzo Flooring        | 12/15      | Thin-set, epoxy-resin terrazzo flooring and precast terrazzo units.  |
| 096723      | Resinous Flooring                        | 06/14      | Fluid-applied monolithic flooring including decorative epoxy and urethane resins.  |
| 096766      | Fluid-Applied Athletic Flooring          | 06/14      | Polyurethane flooring for athletic activity areas.   |
| 096813      | Tile Carpeting                           | 03/15      | Modular carpet tile for commercial applications.   |
| 096816      | Sheet Carpeting                          | 06/14      | Tufted and woven commercial carpet and carpet cushion.   |
| 096900      | Access Flooring                          | 12/15      | Modular floor panels and support systems.  |
| 096933      | Low-Profile Fixed Height Access Flooring | 12/15      | Flooring designed to accommodate power and data wiring beneath the flooring surface.   |
| 097200      | Wall Coverings                           | 06/14      | Vinyl, textile, and woven glass-fiber wall coverings, and wallpaper.   |
| 097513      | Stone Wall Facing                        | 03/15      | Dimension stone paneling on interior walls and columns, including units with carving or inscriptions.  |
| 097519      | Stone Trim                               | 03/15      | Dimension stone interior trim, including stone base and window stools.   |
| 097713      | Stretched-Fabric Wall Systems            | 06/14      | Site-assembled and -upholstered fabric systems for walls.  |
| 097723      | Fabric-Wrapped Panels                    | 06/14      | Shop-fabricated, fabric-wrapped, decorative and tackable wall panels not tested for acoustical performance.  |
| 098433      | Sound-Absorbing Wall Units               | 06/14      | Shop-fabricated, fabric-wrapped, sound-absorbing, sound-diffusing, and sound-reflecting wall panels tested for acoustical performance.                             |
| 098436      | Sound-Absorbing Ceiling Units            | 03/15      | Shop-fabricated, fabric-wrapped, sound-absorbing, sound-diffusing, and sound-reflecting panels and sound-absorbing baffle panels applied to ceilings or suspended. |

N = New U = Update

| Section No. | Section Title                       | Issue Date | Section Description  |
|-------------|-------------------------------------|------------|--|
| 099113      | Exterior Painting                   | 06/17      | Exterior painting.   |
| 099123      | Interior Painting                   | 03/17      | Interior painting.   |
| 099300      | Staining and Transparent Finishing  | 09/14      | For interior and exterior wood: includes solid-color stains.   |
| 099419      | Multicolor Interior Finishing       | 09/14      | Polychromatic paint systems for use on interior vertical surfaces.   |
| 099423      | Gilding                             | 12/13      | Interior and exterior oil gilding.   |
| 099600      | High-Performance Coatings           | 09/14      | Tile-like coatings for use on exterior and interior substrates.  |
| 099633      | High-Temperature-Resistant Coatings | 06/14      | Heat-resistant coatings for use on exterior and interior substrates.   |
| 099646      | Intumescent Painting                | 06/14      | Fire-retardant Intumescent paint for combustible substrates reducing flame-spread index of combustible surfaces. |
| 099653      | Elastomeric Coatings                | 12/13      | Pigmented, water-based, elastomeric coatings for use over concrete, masonry, and stucco.                         |
| 099726      | Cementitious Coatings               | 06/14      | Polymer-modified cementitious coatings on masonry and concrete; exterior and interior.                           |

### DIVISION 10 - SPECIALTIES

|           |   |       |   |
|-----------|---|-------|---|
| U 101100  | Visual Display Units                      | 12/17 | Chalkboards, markerboards, tackboards, floor-to-ceiling assemblies and support systems, sliding units, and conference units.                      |
| U 101146  | Visual Display Fabrics                    | 12/17 | Fabric-backed-vinyl dry-erase wall coverings.   |
| U 101200  | Display Cases                             | 12/17 | Illuminated and nonilluminated types.   |
| U 101300  | Directories                               | 12/17 | Illuminated and nonilluminated types with changeable message strips or changeable letters.  |
| 101416    | Plaques                                   | 12/16 | One-piece, cast or etched, solid-metal plaques.   |
| 101419    | Dimensional Letter Signage                | 03/17 | Individually mounted dimensional characters and illuminated dimensional characters that are combined to form signs.                               |
| 101423    | Panel Signage                             | 12/16 | Panel signs, illuminated panel signs, and field-applied, vinyl-character signs.   |
| 101423.16 | Room-Identification Panel Signage         | 09/16 | Panel signs and sign systems used specifically for room identification; sometimes called "ADA Signs."   |
| U 101426  | Post and Panel/Pylon Signage              | 12/17 | Illuminated and nonilluminated, freestanding panel signs that are supported by posts or configured as pylons.                                     |
| N 101429  | Modular Signage                           | 12/17 | Signs with multiple removable sections, containing text or graphics, attached to a base frame.  |
| 101473    | Painted Signage                           | 03/17 | Field-lettered signs that are painted directly on substrates.   |
| 101700    | Telephone Specialties                     | 12/13 | Telephone booths, enclosures, housings, outdoor boxes, kiosks, and directory storage units.   |
| 102113.13 | Metal Toilet Compartments                 | 06/14 | Painted steel toilet enclosures, entrance screens, and urinal screens.  |
| 102113.14 | Stainless-Steel Toilet Compartments       | 03/15 | Stainless-steel toilet enclosures, entrance screens, and urinal screens.  |
| 102113.16 | Plastic-Laminate-Clad Toilet Compartments | 06/14 | Plastic-laminate-clad toilet enclosures, entrance screens, and urinal screens.  |
| 102113.17 | Phenolic-Core Toilet Compartments         | 06/14 | Phenolic-core toilet enclosures, entrance screens, and urinal screens.  |
| 102113.19 | Plastic Toilet Compartments               | 06/14 | Solid-polymer toilet enclosures, entrance screens, and urinal screens.  |
| 102113.40 | Stone Toilet Compartments                 | 06/14 | Marble, granite, and engineered stone toilet enclosures, entrance screens, and urinal screens; plastic-laminate, stainless-steel, and wood doors. |

N = New U = Update

| Section No. | Section Title                                    | Issue Date | Section Description  |
|-------------|--|------------|--|
| 102116.13   | Metal Shower and Dressing Compartments           | 03/17      | Painted-steel shower and dressing compartments and prefabricated shower receptors.   |
| 102116.14   | Stainless-Steel Shower and Dressing Compartments | 09/16      | Stainless-steel shower and dressing compartments and prefabricated shower receptors.   |
| 102116.17   | Phenolic-Core Shower and Dressing Compartments   | 03/17      | Phenolic-core shower and dressing compartments and prefabricated shower receptors.   |
| 102116.19   | Plastic Shower and Dressing Compartments         | 03/17      | Solid-plastic shower and dressing compartments and prefabricated shower receptors.   |
| 102123      | Cubicle Curtains and Track                       | 06/15      | Curtains, tracks, and carriers for hospital cubicles.  |
| 102213      | Wire Mesh Partitions                             | 06/14      | Standard- and heavy-duty partitions, ceilings, railing insert panels, and equipment barriers.  |
| 102219      | Demountable Partitions                           | 12/15      | 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                     | 03/17      | Acoustically and fire-rated, manually and electrically operated accordion folding partitions.  |
| 102239      | Folding Panel Partitions                         | 03/16      | 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                   | 03/16      | Manually operated glass-panel partitions supported from an overhead track, for interior use.   |
| 102600      | Wall and Door Protection                         | 06/17      | Predominantly plastic products and assemblies that protect surfaces of walls, corners, and doors from damage.  |
| 102800      | Toilet, Bath, and Laundry Accessories            | 12/13      | Standard commercial, institutional, and residential units.   |
| 102813.63   | Detention Toilet Accessories                     | 09/16      | Safety hooks, shelves, combination shelves with safety hooks, and stainless-steel mirrors.   |
| 102819      | Tub and Shower Enclosures                        | 12/16      | Framed and frameless shower doors and enclosures.  |
| 104413      | Fire Protection Cabinets                         | 06/17      | Fire-protection cabinets and security fire-protection cabinets.  |
| 104416      | Fire Extinguishers                               | 06/17      | Portable and wheeled fire extinguishers.   |
| 104513      | Photoluminescent Egress Path Markings            | 03/17      | Luminous egress path markings, used in stairs and exit enclosures, to help occupants exit in an emergency.   |
| 105113      | Metal Lockers                                    | 12/16      | Corridor, athletic, and open-front athletic metal lockers.   |
| 105113.13   | Coin-Operated Metal Lockers                      | 12/16      | Coin-operated lockers used in public facilities for temporary storage of personal belongings.  |
| 105116      | Wood Lockers                                     | 06/17      | Wood-faced wood lockers.   |
| 105123      | Plastic-Laminate-Clad Lockers                    | 06/17      | Plastic-laminate-clad wood lockers.  |
| 105143      | Wire Mesh Storage Lockers                        | 06/14      | Woven wire mesh storage cubicles.  |
| 105500.13   | Usps-Delivery Postal Specialties                 | 05/12      | United States Postal Service (USPS)-approved postal -delivery and collection equipment.  |
| 105500.16   | Private-Delivery Postal Specialties              | 05/12      | Postal-delivery and collection equipment for facilities not serviced by the United States Postal Service (USPS).   |
| 105613      | Metal Storage Shelving                           | 06/15      | Freestanding case-type, four-post, and post-and-beam shelving designed to be loaded by hand.   |
| 105626      | Mobile Storage Shelving                          | 06/15      | Shelving units mounted on wheeled carriages on tracks.   |
| U 107313    | Awnings  | 12/17      | Fixed and retractable awnings.   |
| 107343      | Transportation Stop Shelters                     | 02/11      | Freestanding, modular shelters used for transit passengers, smoking shelters, and other applications.  |
| 107516      | Ground-Set Flagpoles                             | 02/12      | Aluminum, bronze, stainless-steel, steel, and fiberglass ground-set flagpoles.   |

N = New U = Update

| Section No. | Section Title           | Issue Date | Section Description  |
|-------------|-------------------------|------------|--|
| 107523      | Wall-Mounted Flagpoles  | 02/12      | Aluminum, bronze, stainless-steel, and fiberglass wall-mounted flagpoles.                                |
| 107526      | Roof-Mounted Flagpoles  | 02/12      | Aluminum, bronze, stainless-steel, steel, and fiberglass roof-mounted flagpoles.                         |
| 107529      | Plaza-Mounted Flagpoles | 03/15      | Aluminum, bronze, stainless-steel, and fiberglass plaza-mounted flagpoles.                               |
| 108316      | Banners                 | 12/13      | 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 | 09/16 | Universal default values for small and medium, ac motors.   |
| 111200    | Parking Control Equipment               | 09/17 | 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                    | 09/17 | Laminated-tread, molded- and extruded-rubber, and steel-face dock bumpers.  |
| 111316    | Loading Dock Seals and Shelters         | 09/17 | Foam-pad and inflatable dock seals, rigid- and flexible-frame dock shelters, inflatable dock shelters, and transparent curtains.  |
| 111319    | Stationary Loading Dock Equipment       | 09/17 | 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                 | 09/17 | Built-in, scissors-type, single-leg, hydraulic dock lifts.  |
| 111916    | Detention Gun Lockers                   | 09/16 | Secure compartment for storage of firearms.   |
| 113013    | Residential Appliances                  | 09/16 | Major kitchen and laundry appliances.   |
| 113200    | Unit Kitchens                           | 09/16 | Standard metal, plastic-laminate, and wood types.   |
| 114000    | Foodservice Equipment                   | 03/17 | Commercial foodservice equipment.   |
| 115123    | Library Stack Systems                   | 06/15 | Steel-bracket, steel four-post, steel-case, and wood-case shelving.   |
| 115213    | Projection Screens                      | 06/17 | Front projection screens.   |
| 115213.19 | Rear Projection Screens                 | 06/17 | Rear projection screens.  |
| 115313    | Laboratory Fume Hoods                   | 03/17 | Hoods and hood stands, including work tops.   |
| 116123    | Folding and Portable Stages             | 09/13 | Portable stage platforms, seating-platform risers, standing choral risers, and acoustical shells for interior use.  |
| 116143    | Stage Curtains                          | 11/12 | Stage curtain fabrics, draw-curtain tracks, and rigging accessories.  |
| 116623    | Gymnasium Equipment                     | 09/17 | Indoor badminton, basketball, volleyball, and exercise equipment, and safety pads.  |
| 116653    | Gymnasium Dividers                      | 09/17 | Gymnasium divider curtains.   |
| 116800    | Play Field Equipment and Structures     | 06/14 | Public playground equipment for children aged two through 12.   |
| 117300    | Patient Care Equipment                  | 06/15 | Ceiling-mounted patient-lift systems; intravenous tracks, carriers, and bottle holders; patient-bed locators; and patient-bed service walls.                                    |
| 118226    | Facility Waste Compactors               | 09/17 | Commercial, wet- and dry-waste compactor units.   |

### DIVISION 12 - FURNISHINGS

|        |                          |       |   |
|--------|--------------------------|-------|---|
| 122113 | Horizontal Louver Blinds | 03/14 | Manually and motor-operated horizontal louver blinds.         |
| 122116 | Vertical Louver Blinds   | 03/14 | Manually and motor-operated vertical louver blinds.           |
| 122200 | Curtains and Drapes      | 06/14 | Draperies and manually operated and motorized drapery tracks. |

N = New U = Update

| Section No. | Section Title                               | Issue Date | Section Description  |
|-------------|---|------------|--|
| 122413      | Roller Window Shades                        | 09/14      | Manually and motor-operated roller shades installed vertically or at skylights.  |
| 122416      | Pleated Window Shades                       | 09/14      | Manually and motor-operated pleated shades operated from the top down.   |
| 123213      | Manufactured Wood-Veneer-Faced Casework     | 09/17      | Standard manufactured wood-veneer-faced casework.  |
| 123216      | Manufactured Plastic-Laminate-Clad Casework | 09/17      | Standard manufactured plastic-laminate-clad casework.  |
| 123530      | Residential Casework                        | 06/17      | Stock manufactured kitchen and vanity cabinets.  |
| 123553.13   | Metal Laboratory Casework                   | 03/17      | Metal laboratory cabinets including countertops, accessories, and service fittings.  |
| 123553.16   | Plastic-Laminate-Clad Laboratory Casework   | 03/17      | Plastic-laminate-clad laboratory cabinets including countertops, accessories, and service fittings.                              |
| 123553.19   | Wood Laboratory Casework                    | 03/17      | Wood laboratory cabinets including countertops, accessories, and service fittings.   |
| 123570      | Healthcare Casework                         | 09/17      | Stainless- and enameled-steel healthcare casework.   |
| 123616      | Metal Countertops                           | 09/16      | Stainless steel countertops, including integral sinks and shelves.   |
| 123619      | Wood Countertops                            | 09/16      | Wide-width solid-wood, butcher-block, and veneered tops.   |
| 123623.13   | Plastic-Laminate-Clad Countertops           | 09/16      | Plastic-laminate countertops.  |
| 123640      | Stone Countertops                           | 09/14      | Countertops made from dimension stone slabs.   |
| 123661.13   | Cultured Marble Countertops                 | 09/14      | Cultured marble countertops including integral sinks.  |
| 123661.16   | Solid Surfacing Countertops                 | 09/14      | Solid surface countertops and sinks.   |
| 123661.19   | Quartz Agglomerate Countertops              | 09/14      | Quartz agglomerate countertops.  |
| 124813      | Entrance Floor Mats and Frames              | 06/15      | Roll-up (removable) rail mats as well as resilient entrance mats. Frames are also included.                                      |
| 124816      | Entrance Floor Grilles                      | 06/15      | Rigid assembly of rail treads set in recessed frames in the floor.   |
| 125500      | Detention Furniture                         | 09/16      | Bunks, mattresses, desks, tables, and seating.   |
| 126100      | Fixed Audience Seating                      | 12/15      | Upholstered and unupholstered assembly-space seating for interior or exterior applications; also continuous lecture-hall tables. |
| 126313      | Stadium and Arena Bench Seating             | 12/15      | Fixed, continuous bench- or plank-type metal seating.  |
| 126600      | Telescoping Stands                          | 06/14      | Standard interior systems; manually or automatically operated.   |
| 129200      | Interior Planters and Artificial Plants     | 09/14      | Freestanding planters, self-contained subirrigation, and manufactured interior plants.   |

### DIVISION 13 - SPECIAL CONSTRUCTION

|           |                           |       |   |
|-----------|---------------------------|-------|---|
| 132416    | Saunas                    | 06/14 | Modular and precut saunas, with heaters and accessories.                                      |
| 132700    | Vaults                    | 05/12 | Factory-fabricated and site-assembled modular vaults; vault doors.                            |
| U 133419  | Metal Building Systems    | 12/17 | Systems consisting of structural framing, roofing and siding panels, and standard components. |
| 133423.16 | Fabricated Control Booths | 02/11 | Freestanding steel and aluminum control booths.   |
| 134713    | Cathodic Protection       | 09/16 | Passive corrosion protection for steel and iron pipes and tanks.                              |
| 134900    | Radiation Protection      | 06/14 | X-ray, gamma ray, and neutron shielding construction.   |

### DIVISION 14 - CONVEYING EQUIPMENT

|        |             |       |  |
|--------|-------------|-------|--|
| 141000 | Dumbwaiters | 09/14 | Preengineered, hand- and power-operated types. |
|--------|-------------|-------|--|

N = New U = Update



| Section No. | Section Title   | Issue Date | Section Description  |
|-------------|---|------------|--|
| 142100      | Electric Traction Elevators                             | 12/16      | Passenger and service elevators, traction drive, including machine-room-less type. |
| 142113      | Electric Traction Freight Elevators                     | 12/16      | Freight elevators, traction drive, except machine-room-less type.                  |
| 142123.16   | Machine Room-Less Electric Traction Passenger Elevators | 12/16      | Passenger and service elevators, traction drive, machine-room-less type.           |
| 142400      | Hydraulic Elevators                                     | 12/16      | Passenger and service elevators, direct hydraulic and roped hydraulic units.       |
| 142413      | Hydraulic Freight Elevators                             | 12/16      | Freight elevators, direct hydraulic and roped hydraulic units.                     |
| 142600      | Limited-Use/Limited-Application Elevators               | 12/16      | LU/LA elevators, hydraulic and roped-hydraulic units.                              |
| 143100      | Escalators  | 12/16      | Standard and high-traffic, interior and exterior units.                            |
| 143200      | Moving Walks  | 12/16      | Interior and exterior, horizontal or inclined, pallet- or belt-type units.         |
| 144119      | Stairway Chairlifts                                     | 03/16      | Inclined type for public and private-residence use.                                |
| 144200      | Wheelchair Lifts  | 03/16      | Vertical and inclined types for public, courtroom, and private-residence use.      |
| 149133      | Laundry and Linen Chutes                                | 09/17      | Gravity-type metal chutes for soiled linens.                                       |
| 149182      | Trash Chutes  | 09/17      | Gravity-type metal chutes and diverters for waste materials.                       |

### DIVISION 21 - FIRE SUPPRESSION

|           |  |       |   |
|-----------|--|-------|---|
| 210513    | Common Motor Requirements for Fire Suppression Equipment                 | 09/16 | Universal default values for small and medium, ac motors.                                     |
| 210517    | Sleeves and Sleeve Seals for Fire-Suppression Piping                     | 09/16 | Sleeves and sleeve seals for piping at floor and wall penetrations.                           |
| 210518    | Escutcheons for Fire-Suppression Piping                                  | 09/16 | Escutcheons and floor plates for piping at ceiling, floor, and wall penetrations.             |
| 210523    | General-Duty Valves for Fire Protection Piping                           | 06/12 | Valves common to most fire-protection piping.   |
| 210529    | Hangers and Supports for Fire Suppression Piping and Equipment           | 03/17 | Single and multiple hangers, framing systems, and stands and supports.                        |
| 210533    | Heat Tracing for Fire-Suppression Piping                                 | 12/16 | Electric cables for freeze protection.  |
| 210548    | Vibration and Seismic Controls for Fire-Suppression Piping and Equipment | 09/11 | Vibration isolation devices and seismic restraints.   |
| 210548.13 | Vibration Controls for Fire-Suppression Piping and Equipment             | 09/11 | Vibration isolation devices.  |
| 210553    | Identification for Fire-Suppression Piping and Equipment                 | 12/12 | Labels, stencils, and tags.   |
| 210700    | Fire-Suppression Systems Insulation                                      | 03/15 | Equipment and pipe insulation.  |
| 210800    | Commissioning of Fire Suppression  | 09/16 | Requirements and procedures for commissioning fire suppression systems.                       |
| 211100    | Facility Fire-Suppression Water-Service Piping                           | 09/16 | Fire suppression piping and specialties outside the building.                                 |
| 211116    | Facility Fire Hydrants   | 06/12 | AWWA and UL listed dry- and wet-barrel fire hydrants.   |
| 211119    | Fire Department Connections  | 06/12 | Exposed-, flush-, and yard-type fire-department connections.                                  |
| 211200    | Fire-Suppression Standpipes  | 09/16 | Piping, specialties, valves, hose valves, and hose stations.                                  |
| 211213    | Fire-Suppression Hoses and Nozzles                                       | 06/12 | Hoses, reels, and racks for rack- and reel-type hose stations; and fire-suppression monitors. |
| 211313    | Wet-Pipe Sprinkler Systems   | 09/16 | Piping, specialties, valves, and sprinklers for wet-pipe sprinkler systems.                   |
| 211316    | Dry-Pipe Sprinkler Systems   | 09/16 | Piping, specialties, valves, and sprinklers for dry-pipe and preaction sprinkler systems.     |

N = New U = Update

| Section No. | Section Title  | Issue Date | Section Description   |
|-------------|--|------------|---|
| 211339      | Foam-Water Systems                                       | 12/16      | Fixed, low-expansion, AFFF systems for flammable-liquid fires.  |
| 212113.13   | High-Pressure, Carbon-Dioxide Fire-Extinguishing Systems | 09/16      | Piping, fittings, and specialties for systems that deliver carbon dioxide for fire extinguishing and suppression. |
| 212113.16   | Low-Pressure, Carbon-Dioxide Fire-Extinguishing Systems  | 09/16      | Piping, fittings, and specialties for systems that deliver carbon dioxide for fire extinguishing and suppression. |
| 212200      | Clean-Agent Fire-Extinguishing Systems                   | 09/16      | Piping, containers, detection and alarms, and controls for clean-agent systems.                                   |
| 213113      | Electric-Drive, Centrifugal Fire Pumps                   | 12/16      | End-suction, in-line, and split-case fire pumps; accessories, specialties, and flowmeter systems.                 |
| 213116      | Diesel-Drive, Centrifugal Fire Pumps                     | 12/16      | End-suction, in-line, and split-case fire pumps; accessories, specialties, and flowmeter systems.                 |
| 213213      | Electric-Drive, Vertical-Turbine Fire Pumps              | 12/16      | Fire pumps, accessories, specialties, and flowmeter systems.  |
| 213216      | Diesel-Drive, Vertical-Turbine Fire Pumps                | 12/16      | Fire pumps, accessories, specialties, and flowmeter systems.  |
| 213413      | Pressure-Maintenance Pumps                               | 09/16      | Multistage, regenerative turbine, submersible, and vertical-turbine pumps; pump controllers.                      |

### DIVISION 22 - PLUMBING

|           |  |       |   |
|-----------|--|-------|---|
| 220513    | Common Motor Requirements for Plumbing Equipment                 | 09/16 | Universal default values for small and medium, ac motors.                                 |
| 220516    | Expansion Fittings and Loops for Plumbing Piping                 | 06/13 | Expansion joints and expansion-compensation devices for plumbing piping.                  |
| 220517    | Sleeves and Sleeve Seals for Plumbing Piping                     | 09/16 | Sleeves and sleeve seals for piping at floor and wall penetrations.                       |
| 220518    | Escutcheons for Plumbing Piping                                  | 09/16 | Escutcheons and floor plates for piping at ceiling, floor, and wall penetrations.         |
| 220519    | Meters and Gages for Plumbing Piping                             | 09/15 | Temperature, pressure, and flow.  |
| 220523.12 | Ball Valves for Plumbing Piping                                  | 09/17 | Ball valves common to multiple systems.   |
| 220523.13 | Butterfly Valves for Plumbing Piping                             | 09/17 | Butterfly valves common to multiple systems.  |
| 220523.14 | Check Valves for Plumbing Piping                                 | 09/17 | Check valves common to multiple systems.  |
| 220523.15 | Gate Valves for Plumbing Piping                                  | 09/17 | Gate valves common to multiple systems.   |
| 220529    | Hangers and Supports for Plumbing Piping and Equipment           | 03/17 | Single and multiple hangers, framing systems, and stands and supports.                    |
| 220533    | Heat Tracing for Plumbing Piping                                 | 03/10 | Electric cables for freeze protection, snow and ice melting, and temperature maintenance. |
| 220548    | Vibration and Seismic Controls for Plumbing Piping and Equipment | 09/11 | Vibration isolation devices and seismic restraints.                                       |
| 220548.13 | Vibration Controls for Plumbing Piping and Equipment             | 09/11 | Vibration isolation devices.  |
| 220553    | Identification for Plumbing Piping and Equipment                 | 03/13 | Labels, stencils, and tags.   |
| 220716    | Plumbing Equipment Insulation                                    | 03/15 | Insulation materials, jackets, and installation accessories for plumbing equipment.       |
| 220719    | Plumbing Piping Insulation                                       | 03/15 | Insulation materials, jackets, and installation accessories for plumbing piping.          |
| 220800    | Commissioning of Plumbing  | 06/15 | Requirements and procedures for commissioning plumbing systems.                           |
| 221113    | Facility Water Distribution Piping                               | 09/17 | Utility service, domestic, and fire-protection water, specialties, and valves.            |
| 221116    | Domestic Water Piping  | 09/17 | Potable-water distribution within the building.   |
| 221117    | Gray-Water Piping  | 12/16 | Non-potable water piping.   |
| 221119    | Domestic Water Piping Specialties                                | 09/17 | Specialties, valves, and fittings for domestic water piping.                              |
| 221123.13 | Domestic-Water Packaged Booster Pumps                            | 09/17 | Water-pressure boosters, simplex and multi-plex; constant- and variable speed pumps.      |

N = New U = Update

| Section No. | Section Title  | Issue Date | Section Description  |
|-------------|--|------------|--|
| 221123.21   | Inline, Domestic-Water Pumps                           | 12/16      | In-line separately coupled, close-coupled, centrifugal pumps.  |
| 221216      | Facility Elevated, Potable-Water Storage Tanks         | 12/16      | Above-ground water storage.  |
| 221219      | Facility Ground-Mounted, Potable-Water Storage Tanks   | 12/16      | Surface-mounted water storage.   |
| 221313      | Facility Sanitary Sewers                               | 06/15      | Sanitary sewerage and underground structures outside the building.   |
| 221316      | Sanitary Waste and Vent Piping                         | 12/16      | Soil, waste, and vent piping within the building.  |
| 221319      | Sanitary Waste Piping Specialties                      | 12/16      | Backwater and air admittance valves, cleanouts, sanitary assemblies, FOG systems, and sanitary drainage specialties. |
| 221319.13   | Sanitary Drains  | 09/17      | Floor and trench drains, and channel drain systems.  |
| 221323      | Sanitary Waste Interceptors                            | 12/16      | Grease, oil, and sand interceptors for sewerage systems outside the building.  |
| 221329      | Sanitary Sewerage Pumps                                | 03/17      | Effluent pumps; automatic, packaged; basins and covers.  |
| 221343      | Facility Packaged Sewage Pumping Stations              | 03/10      | Pump, compressor, tank, and controls.  |
| 221353      | Facility Septic Tanks                                  | 03/10      | Tank, distribution box, and drainage pipe.   |
| 221363      | Facility Gray-Water Storage Tanks                      | 03/15      | Above-ground gray-water storage.   |
| 221413      | Facility Storm Drainage Piping                         | 09/16      | Stormwater piping within the building.   |
| 221423      | Storm Drainage Piping Specialties                      | 09/16      | Roof drains, cleanouts, trench drains, channel drains, and piping specialties.                                       |
| 221429      | Sump Pumps   | 03/17      | Submersible, wet-pit volute, and package drainage-pump units; basins and covers.                                     |
| 221463      | Facility Storm-Water Retention Tanks                   | 03/15      | Above-ground storm-water storage.  |
| U 221513    | General-Service Compressed-Air Piping                  | 12/17      | Nonmedical piping, equipment, and accessories.   |
| 221519      | General-Service Packaged Air Compressors and Receivers | 09/11      | Nonmedical air compressors, filters, and dryers.   |
| 223100      | Domestic Water Softeners                               | 09/17      | Domestic and general use, not treatment.   |
| 223200      | Domestic Water Filtration Equipment                    | 09/13      | Separators; and bag, cartridge, carbon, sand, and greensand filters.   |
| 223300      | Electric, Domestic-Water Heaters                       | 12/16      | Household and commercial; tankless, instantaneous, and storage types.  |
| 223400      | Fuel-Fired, Domestic-Water Heaters                     | 03/15      | Household and commercial; gas and oil fired; instantaneous and storage types.  |
| 223500      | Domestic-Water Heat Exchangers                         | 06/16      | Steam and hot-water heat exchangers; instantaneous and storage types.  |
| 224100      | Residential Plumbing Fixtures                          | 03/15      | Residential water closets, lavatories, sinks, bathtubs, and shower receptors and basins.                             |
| 224213.13   | Commercial Water Closets                               | 09/17      | Commercial water closets, supports, flushometer valves, and supplies.  |
| 224213.16   | Commercial Urinals                                     | 03/15      | Commercial urinals, supports, and flushometer valves.  |
| 224216.13   | Commercial Lavatories                                  | 03/17      | Commercial lavatories, supports, faucets, traps, and supplies.   |
| 224216.16   | Commercial Sinks                                       | 06/17      | Commercial sinks, supports, faucets, traps, and supplies.  |
| 224223      | Commercial Showers                                     | 03/15      | Shower receptors, basins, enclosures, faucets, and heads.  |
| 224233      | Wash Fountains   | 03/15      | Stone, metal, and plastic wash fountains.  |
| 224300      | Healthcare Plumbing Fixtures                           | 03/15      | Plumbing fixtures for healthcare facilities.   |
| U 224500    | Emergency Plumbing Fixtures                            | 12/17      | Individual and combination emergency eyewash and shower units.   |
| 224600      | Security Plumbing Fixtures                             | 03/15      | Detention facility plumbing fixtures.  |
| 224713      | Drinking Fountains                                     | 03/15      | Pedestal, antifreeze pedestal, wheelchair accessible, wall mounted.  |
| 224716      | Pressure Water Coolers                                 | 03/16      | Freestanding, wall mounted, and wheelchair accessible.   |

N = New U = Update

| Section No. | Section Title   | Issue Date | Section Description  |
|-------------|---|------------|--|
| 224723      | Remote Water Coolers  | 03/15      | Remote water chillers.   |
| 226113      | Compressed-Air Piping for Laboratory and Healthcare Facilities    | 09/16      | Piping for nonmedical laboratory air, medical air, dental air, instrument air, and medical laboratory air.                                     |
| 226119      | Compressed-Air Equipment for Laboratory and Healthcare Facilities | 09/11      | Compressors, filters, and dryers for laboratory and healthcare facilities.   |
| 226213      | Vacuum Piping for Laboratory and Healthcare Facilities            | 12/16      | 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         | 09/11      | Vacuum producers and accessories for laboratory and healthcare facilities.   |
| 226313      | Gas Piping for Laboratory and Healthcare Facilities               | 06/16      | Piping for CO <sub>2</sub> , helium, NO <sub>2</sub> , and O <sub>2</sub> .  |
| 226400      | Medical Gas Alarms  | 03/10      | Alarms for medical gas systems.  |
| 226600      | Chemical-Waste Systems for Laboratory and Healthcare Facilities   | 06/15      | Single- and double-wall piping and specialties, neutralization tanks, and leak detection.  |
| 226700      | Processed Water Systems for Laboratory and Healthcare Facilities  | 12/16      | Pipe, fittings, and specialties for deionized, distilled, and reverse osmosis water.   |

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

|           |  |       |   |
|-----------|--|-------|---|
| 230130.52 | Existing HVAC Air Distribution System Cleaning     | 03/16 | Cleaning existing HVAC air-distribution equipment, ducts, plenums, air outlets and inlets, and duct accessories.                |
| 230513    | Common Motor Requirements for HVAC Equipment       | 09/16 | Universal default values for small and medium, ac motors.   |
| 230516    | Expansion Fittings and Loops for HVAC Piping       | 06/13 | Expansion joints and expansion-compensation devices for HVAC piping.  |
| 230517    | Sleeves and Sleeve Seals for HVAC Piping           | 06/16 | Sleeves and sleeve seals for piping at floor and wall penetrations.   |
| 230518    | Escutcheons for HVAC Piping                        | 09/16 | Escutcheons and floor plates for piping at ceiling, floor, and wall penetrations.   |
| 230519    | Meters and Gages for HVAC Piping                   | 09/15 | Temperature, pressure, and flow.  |
| 230523.11 | Globe Valves for HVAC Piping                       | 09/15 | Globe valves common to multiple systems.  |
| 230523.12 | Ball Valves for HVAC Piping                        | 09/17 | Ball valves common to multiple systems.   |
| 230523.13 | Butterfly Valves for HVAC Piping                   | 09/15 | Butterfly valves common to multiple systems.  |
| 230523.14 | Check Valves for HVAC Piping                       | 09/15 | Check valves common to multiple systems.  |
| 230523.15 | Gate Valves for HVAC Piping                        | 09/15 | Gate valves common to multiple systems.   |
| 230523.16 | Plug Valves for HVAC Piping                        | 03/13 | Plug valves common to multiple systems.   |
| 230529    | Hangers and Supports for HVAC Piping and Equipment | 03/17 | Single and multiple hangers, framing systems, and stands and supports.  |
| 230533    | Heat Tracing for HVAC Piping                       | 03/10 | Electric cables for freeze protection.  |
| 230548    | Vibration and Seismic Controls for HVAC            | 09/11 | Vibration isolation devices and seismic restraints.   |
| 230548.13 | Vibration Controls for HVAC                        | 09/11 | Vibration isolation devices.  |
| 230553    | Identification for HVAC Piping and Equipment       | 03/13 | Labels, stencils, and tags.   |
| 230566    | Antimicrobial Ultraviolet Lamp Systems for HVAC    | 09/17 | 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         | 06/16 | Air distribution and hydronic systems.  |
| 230713    | Duct Insulation                                    | 03/15 | Insulation materials, jackets, and installation accessories for HVAC ducts.   |
| 230716    | HVAC Equipment Insulation                          | 03/15 | Insulation materials, jackets, and installation accessories for HVAC equipment.   |
| 230719    | HVAC Piping Insulation                             | 03/15 | Insulation materials, jackets, and installation accessories for HVAC piping.  |
| 230800    | Commissioning of HVAC                              | 06/15 | Requirements and procedures for commissioning HVAC systems.   |

N = New U = Update

| Section No. | Section Title                                | Issue Date | Section Description   |
|-------------|--|------------|---|
| 230923      | Direct Digital Control (DDC) System for HVAC | 09/16      | Direct digital control system for monitoring and controlling HVAC systems.  |
| 230923.11   | Control Valves                               | 09/17      | Control valves and actuators that connect to direct digital control systems.  |
| 230923.12   | Control Dampers                              | 12/15      | Control dampers and actuators that connect to direct digital control systems.   |
| 230923.13   | Energy Meters                                | 03/15      | Thermal and electric power energy meters that connect to direct digital control systems.  |
| 230923.14   | Flow Instruments                             | 03/15      | Airflow and liquid flow sensors, switches and transmitters, and water meters that connect to direct digital control systems.      |
| 230923.16   | Gas Instruments                              | 03/15      | Carbon dioxide, oxygen, and VOC gas detection instruments and control devices that connect to direct digital control systems.     |
| 230923.17   | Level Instruments                            | 03/13      | Liquid level switches, sensors, and transmitters that connect to direct digital control systems.                                  |
| 230923.18   | Leak Detection Instruments                   | 03/13      | Leak detection switches (point type) and leak detector switches (cable type) that connect to direct digital control systems.      |
| 230923.19   | Moisture Instruments                         | 03/13      | Humidity and moisture sensors and transmitters that connect to direct digital control systems.                                    |
| 230923.21   | Motion Instruments                           | 03/13      | PIR, ultrasonic, and dual-technology type motion detection instruments that connect to direct digital control systems.            |
| 230923.22   | Position Instruments                         | 03/13      | Limit switches that connect to direct digital control systems.  |
| 230923.23   | Pressure Instruments                         | 03/13      | Air and liquid pressure sensors, switches, and transmitters that connect to direct digital control systems.                       |
| 230923.24   | Speed Instruments                            | 03/13      | Speed switches that connect to direct digital control systems.  |
| 230923.27   | Temperature Instruments                      | 03/13      | Air, liquid, and steam temperature sensors, switches, transmitters and thermotats that connect to direct digital control systems. |
| 230923.33   | Vibration Instruments                        | 03/13      | Vibration switches that connect to direct digital control systems.  |
| 230923.43   | Weather Stations                             | 03/13      | Weather stations that connect to direct digital control systems.  |
| 230993.11   | Sequence of Operations for HVAC DDC          | 03/13      | Direct digital control sequences for HVAC systems.  |
| 231113      | Facility Fuel-Oil Piping                     | 09/16      | Fuel-oil piping, valves, specialties; leak-detection and monitoring systems for No. 2 fuel oil.                                   |
| 231123      | Facility Natural-Gas Piping                  | 09/16      | Natural gas piping and specialties.   |
| 231126      | Facility Liquefied-Petroleum Gas Piping      | 12/16      | LP gas piping, specialties, and storage equipment.  |
| 231213      | Facility Fuel-Oil Pumps                      | 03/13      | Simplex, duplex, and triplex transfer pumps; submersible storage tank pumps; and fuel-oil maintenance systems.                    |
| 231313      | Facility Underground Fuel-Oil Storage Tanks  | 12/16      | Steel and FRP UST; accessories; liquid-level gage system; and leak-detection systems.   |
| 231323      | Facility Aboveground Fuel-Oil Storage Tanks  | 12/16      | Vertical, horizontal, containment-dike, insulated, and concrete vaulted steel AST.  |
| 232113      | Hydronic Piping                              | 06/17      | Pipes, tubes, and fittings for heating and cooling water piping.  |
| 232113.13   | Underground Hydronic Piping                  | 09/16      | Underground piping outside the building.  |
| 232113.33   | Ground-Loop Heat-Pump Piping                 | 03/11      | Horizontal and vertical, direct-buried, ground-loop piping.   |
| 232116      | Hydronic Piping Specialties                  | 09/17      | Specialties and special-duty valves for heating and cooling water piping.   |
| 232123      | Hydronic Pumps                               | 03/16      | Base mounted and in-line; close coupled and separately coupled.   |

N = New U = Update

| Section No. | Section Title   | Issue Date | Section Description  |
|-------------|---|------------|--|
| 232213      | Steam and Condensate Heating Piping                       | 03/16      | Pipes, tubes, and fittings for LP and HP steam piping.   |
| 232216      | Steam and Condensate Heating Piping Specialties           | 06/16      | Specialties and special-duty valves for LP and HP steam piping.  |
| 232223      | Steam Condensate Pumps                                    | 03/16      | Electric driven and pressure powered; single and duplex pumps with receivers.                                      |
| 232300      | Refrigerant Piping  | 12/16      | Piping, specialties, and refrigerant.  |
| 232500      | HVAC Water Treatment                                      | 06/13      | Auto and manual systems for hydronic systems and steam feedwater systems.  |
| 232513      | Water Treatment for Closed-Loop Hydronic Systems          | 03/13      | Auto and manual systems for closed-loop hydronic systems.  |
| 232516      | Water Treatment for Open-Loop Hydronic Systems            | 03/13      | Auto and manual systems for open-loop hydronic systems.  |
| 232519      | Water Treatment for Steam System Feedwater                | 03/13      | Auto and manual systems for steam feedwater systems.   |
| 232523      | Water Treatment for Humidification Steam System Feedwater | 03/13      | Automatic systems for humidification steam feedwater systems.  |
| 232533      | HVAC Makeup-Water Filtration Equipment                    | 03/13      | Water filtration systems for HVAC makeup water systems.  |
| 233113      | Metal Ducts   | 09/17      | Rectangular and round, single- and double-wall ducts, including hangers and supports.                              |
| 233116      | Nonmetal Ducts  | 06/17      | Fibrous-glass, PVC, and FRP ducts, hangers, and supports. Does not include fabric.                                 |
| U 233119.13 | Shop-Fabricated HVAC Casings                              | 12/17      | Shop-fabricated, single- and double-wall casings used as equipment enclosures and plenums.                         |
| U 233119.16 | Manufactured HVAC Casings                                 | 12/17      | Factory-fabricated, double-wall casings used as equipment enclosures and plenums.                                  |
| 233300      | Air Duct Accessories                                      | 09/16      | Volume dampers, fire and smoke dampers, vanes, duct silencers, and hardware.                                       |
| 233346      | Flexible Ducts  | 12/16      | Non-insulated and insulated flexible ducts and flexible duct connectors.   |
| 233413      | Axial HVAC Fans   | 09/17      | Tubeaxial and vaneaxial fans.  |
| 233416      | Centrifugal HVAC Fans                                     | 03/13      | BI & FC indoor type; tubular and in-line units.  |
| 233423      | HVAC Power Ventilators                                    | 03/13      | Roof, wall, and ceiling-mounting ventilators.  |
| N 233433.13 | Commercial Air Curtains                                   | 12/17      | Commercial air curtain fans over entranceways, with and without heating.   |
| N 233433.16 | Industrial Air Curtains                                   | 12/17      | Industrial air curtain fans over entranceways, with and without heating.   |
| 233439      | High-Volume, Low-Speed Fans                               | 09/17      | Large diameter, high-volume, low-speed ceiling fans.   |
| 233533      | Listed Kitchen Ventilation System Exhaust Ducts           | 03/14      | Listed grease ducts.   |
| 233600      | Air Terminal Units  | 03/17      | Single-duct, dual-duct, fan-powered, induction, and diffuser types.  |
| 233713.13   | Air Diffusers   | 09/14      | Round, rectangular, perforated, and linear diffusers.  |
| 233713.23   | Registers and Grilles                                     | 09/14      | Fixed and adjustable registers and grilles.  |
| 233713.43   | Security Registers and Grilles                            | 09/14      | Security registers and grilles.  |
| 233716      | Fabric Air-Distribution Devices                           | 12/14      | Continuous tubular fabric air diffusers, connectors, and accessories.  |
| 233723      | HVAC Gravity Ventilators                                  | 09/17      | Unpowered ventilators and louver penthouses.   |
| 233813      | Commercial-Kitchen Hoods                                  | 12/16      | Type I and Type II, Standard and Listed hoods.   |
| 234100      | Particulate Air Filtration                                | 09/17      | Disposable, extended surface, and roll types.  |
| 234133      | High-Efficiency Particulate Air Filtration                | 09/17      | High-efficiency particulate air filters, ultralow-penetration air (ULPA) filters, filter frames, and filter gages. |
| 234200      | Gas-Phase Air Filtration                                  | 12/16      | Gas adsorbent and rechargeable media, trays and housings, frames, and filter gages.                                |

N = New U = Update

| Section No. | Section Title   | Issue Date | Section Description   |
|-------------|---|------------|---|
| 234300      | Electronic Air Cleaners                                 | 06/17      | Electronic air cleaners, access housings, service frames, and filter gages.                 |
| 235113.11   | Draft Control Fans                                      | 09/13      | Induced-draft fans.   |
| 235113.16   | Vent Dampers  | 09/13      | Barometric dampers.   |
| 235116      | Fabricated Breechings and Accessories                   | 09/13      | Refractory-lined breechings and field-fabricated breechings.                                |
| 235123      | Gas Vents   | 09/13      | Listed double-wall vents.   |
| 235133      | Insulated Sectional Chimneys                            | 09/13      | Double-wall and refractory-lined chimneys; fabricated chimneys.                             |
| 235213      | Electric Boilers  | 03/16      | HW and steam; HP and LP.  |
| 235216      | Condensing Boilers                                      | 03/16      | Packaged condensing boilers for small applications.   |
| 235223      | Cast-Iron Boilers                                       | 03/16      | HW and steam; gas and oil fired.  |
| 235233      | Water-Tube Boilers                                      | 03/15      | HW and steam; gas and oil fired.  |
| 235239      | Fire-Tube Boilers                                       | 03/15      | HW and steam; gas and oil fired.  |
| 235313      | Boiler Feedwater Pumps                                  | 03/16      | Condensate and vacuum pumps and receivers.  |
| 235316      | Deaerators  | 09/14      | Spray, packed column, and package tray.   |
| 235413      | Electric-Resistance Furnaces                            | 03/16      | Electric furnaces.  |
| 235416.13   | Gas-Fired Furnaces                                      | 03/16      | Gas-fired furnaces.   |
| 235416.16   | Oil-Fired Furnaces                                      | 03/15      | Oil-fired furnaces.   |
| 235513.16   | Gas-Fired Duct Heaters                                  | 03/15      | Natural gas and propane, duct-mounted units.  |
| 235523.13   | Low-Intensity, Gas-Fired, Radiant Heaters               | 09/13      | Low intensity, gas-fired, indoor and outdoor radiant heaters.                               |
| 235523.16   | High-Intensity, Gas-Fired, Radiant Heaters              | 03/15      | High-intensity, gas-fired, indoor and outdoor radiant heaters and patio heaters.            |
| 235533.13   | Oil-Fired Unit Heaters                                  | 09/13      | Fuel-oil unit heaters with propeller and centrifugal fans.                                  |
| 235533.16   | Gas-Fired Unit Heaters                                  | 09/13      | Natural gas and propane unit heaters with propeller and centrifugal fans.                   |
| 235613.13   | Heating, Flat-Plate, Solar Collectors                   | 03/13      | Liquid-type, medium-temperature, glazed solar panels.                                       |
| 235613.19   | Heating, Solar, Vacuum-Tube Collectors                  | 03/13      | Liquid-type, vacuum-tube solar collectors, accessories, and mountings.                      |
| 235700      | Heat Exchangers for HVAC                                | 03/16      | Steam to water and water to water; shell-and-tube and flat-plate types.                     |
| 236200      | Packaged Compressor and Condenser Units                 | 03/15      | Air and water cooled.   |
| 236313      | Air-Cooled Refrigerant Condensers                       | 03/15      | Remote forced-air, condenser, and fan units.  |
| 236333      | Evaporative Refrigerant Condensers                      | 09/17      | Induced- and forced-draft evaporative refrigerant condensers.                               |
| 236413.13   | Direct-Fired Absorption Water Chillers                  | 03/15      | Natural-gas, propane, and oil fired; water cooled; two stages; and a brush-cleaning system. |
| 236413.16   | Indirect-Fired Absorption Water Chillers                | 03/16      | Steam and hot-water generated; one and two stage.   |
| 236416      | Centrifugal Water Chillers                              | 09/16      | Hermetic and open; direct and gear drives; water and air cooled.                            |
| 236423.13   | Air-Cooled, Scroll Water Chillers                       | 09/16      | Packaged, air-cooled, scroll water chillers.  |
| 236423.16   | Water-Cooled, Scroll Water Chillers                     | 09/16      | Packaged, water-cooled, scroll water chillers.  |
| 236426.13   | Air-Cooled, Rotary-Screw Water Chillers                 | 09/16      | Packaged, air-cooled indoor and outdoor rotary-screw water chillers.                        |
| 236426.16   | Water-Cooled, Rotary-Screw Water Chillers               | 09/16      | Water-cooled, single- and multiple-compressor units.  |
| 236513.13   | Open-Circuit, Forced-Draft Cooling Towers               | 03/16      | Factory-assembled, open-circuit, forced-draft, towers.                                      |
| 236513.16   | Closed-Circuit, Forced-Draft Cooling Towers             | 03/16      | Factory-assembled, closed-circuit, forced-draft, towers.                                    |
| 236514.13   | Open-Circuit, Induced-Draft, Counterflow Cooling Towers | 03/16      | Factory-assembled, open-circuit, induced-draft, counterflow towers.                         |

N = New U = Update

| Section No. | Section Title  | Issue Date | Section Description   |
|-------------|--|------------|---|
| 236514.14   | Open-Circuit, Induced-Draft, Crossflow Cooling Towers  | 03/16      | Factory-assembled, open-circuit, induced-draft, crossflow towers.   |
| 236514.16   | Closed-Circuit, Induced-Draft, Counterflow Cooling Towers  | 03/16      | Factory-assembled, closed-circuit, induced-draft, counterflow towers.   |
| 236514.17   | Closed-Circuit, Induced-Draft, Combined-Flow Cooling Towers                                      | 03/16      | Factory-assembled, closed-circuit, induced-draft, combined-flow towers.   |
| 237213      | Heat Wheel Air-To-Air Energy Recovery Units  | 09/17      | Rotary heat wheel, sensible-only or total heat transfer heat exchangers.  |
| 237216      | Heat Pipe Air-To-Air Energy Recovery Units   | 06/17      | Heat pipe, sensible heat, heat exchangers utilizing passive-refrigerant heat transfer.  |
| 237219      | Fixed Plate Air-To-Air Energy Recovery Units   | 06/17      | Fixed plate, sensible and total heat transfer heat exchangers.  |
| 237223.13   | Packaged Indoor Heat Wheel Energy Recovery Units   | 09/17      | Heat wheel heat exchangers in packaged, indoor, energy-recovery units.  |
| 237223.19   | Packaged Indoor Fixed Plate Energy Recovery Units  | 09/17      | Sensible and total heat, fixed-plate heat exchangers in packaged, indoor, energy-recovery units.                                    |
| 237313.13   | Indoor, Basic Air-Handling Units   | 03/17      | Units consisting of fans, coils, dampers, filters, control devices, and accessories.  |
| 237313.16   | Indoor, Semi-Custom Air-Handling Units   | 03/17      | Units consisting of fans, coils, dampers, filters, control devices, and accessories.  |
| 237333.16   | Indoor, Indirect, Gas-Fired Heating and Ventilating Units  | 12/16      | Indirect, gas-fired H&V units mounted inside the building.  |
| 237339      | Indoor, Direct-Fired Heating and Ventilating Units   | 12/16      | Indoor, direct gas-fired H&V units.   |
| 237343.16   | Outdoor, Semi-Custom Air-Handling Units  | 09/17      | Units consisting of fans, coils, dampers, filters, control devices, and accessories.  |
| 237416.11   | Packaged, Small-Capacity, Rooftop Air-Conditioning Units   | 09/16      | Packaged, air-cooled, rooftop HVAC, 6 tons and smaller.   |
| 237416.13   | Packaged, Large-Capacity, Rooftop Air-Conditioning Units   | 09/16      | Packaged, air-cooled, rooftop HVAC 7.5 tons and greater.  |
| 237423.13   | Packaged, Direct-Fired, Outdoor, Heating-Only Makeup-Air Units                                   | 12/16      | Outdoor, direct gas-fired H&V units.  |
| 237423.16   | Packaged, Indirect-Fired, Outdoor, Heating-Only Makeup-Air Units                                 | 12/16      | Outdoor, indirect gas-fired H&V units.  |
| 237433      | Dedicated Outdoor-Air Units  | 12/16      | Units capable of 100 percent outdoor air with heating and cooling.  |
| 238113.11   | Packaged Terminal Air-Conditioners, Through-Wall Units   | 03/15      | 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   | 03/15      | 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                                  | 03/15      | Outdoor, wall-mounted; cooling only; heat pump; cooling plus hot-water heating, electric heating, and gas-fired heating.            |
| 238119      | Self-Contained Air-Conditioners  | 09/17      | 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 | 03/17      | 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  | 03/17      | Floor-mounted water and air cooled, air conditioning systems for data centers.  |
| 238123.13   | Computer-Room Air-Conditioners, Ceiling-Mounted Units  | 03/17      | Ceiling-mounted water and air cooled, air conditioning systems for data centers.  |
| 238123.14   | Computer-Room Air-Conditioners, Console Units  | 03/17      | Console water and air cooled, air conditioning systems for data centers.  |
| 238123.18   | Computer-Room, Rack-Cooling Equipment  | 03/15      | Water and air cooled, pumped-refrigerant, air conditioning systems for data centers.  |
| 238126      | Split-System Air-Conditioners  | 09/16      | Air-distribution equipment separate from refrigeration equipment; cabinet suitable for exposed installations.                       |

N = New U = Update



| Section No. | Section Title                              | Issue Date | Section Description  |
|-------------|--|------------|--|
| 238129      | Variable-Refrigerant-Flow HVAC Systems     | 03/17      | Variable-refrigerant-flow HVAC systems, components, and operations, including delegated design.    |
| 238146      | Water-Source Unitary Heat Pumps            | 03/15      | Concealed horizontal and vertical units.   |
| 238146.13   | Water-To-Air Heat Pumps                    | 03/17      | Concealed horizontal and vertical units; vertical-stack; and exposed-console units.                |
| 238213      | Valance Heating and Cooling Units          | 03/13      | Electric and hot water radiant heaters and heating and cooling panels.                             |
| 238214      | Chilled Beams                              | 09/16      | Passive and active units.  |
| 238216.11   | Hydronic Air Coils                         | 03/15      | Hydronic coils not integral to AHUs.   |
| 238216.12   | Steam Air Coils                            | 03/13      | Steam coils not integral to AHUs.  |
| 238216.13   | Refrigerant Air Coils                      | 03/15      | Refrigerant coils not integral to AHUs.  |
| 238216.14   | Electric-Resistance Air Coils              | 03/13      | Electric-resistance coils not integral to AHUs.  |
| 238219      | Fan Coil Units                             | 06/16      | Hot water, steam, and electric heating; chilled or DX cooling.                                     |
| 238223      | Unit Ventilators                           | 03/17      | Hot water, steam, and electric heating; chilled or DX cooling.                                     |
| 238229      | Radiators                                  | 03/13      | Flat-pipe steel radiators for hot-water, steam, and electric heating systems.                      |
| 238233      | Convectors                                 | 03/16      | Convectors for hot-water, steam, and electric heating systems.                                     |
| 238236      | Finned-Tube Radiation Heaters              | 03/16      | HW, steam, and electric baseboard and finned-tube radiation heaters.                               |
| 238239.13   | Cabinet Unit Heaters                       | 03/17      | Cabinet unit heaters with hot-water, steam, and electric-resistance coils.                         |
| 238239.16   | Propeller Unit Heaters                     | 03/16      | Propeller unit heaters with hot-water, steam, and electric-resistance coils.                       |
| 238239.19   | Wall and Ceiling Unit Heaters              | 03/15      | Wall and ceiling electric unit heaters.  |
| 238313      | Radiant-Heating Electric Cables            | 03/13      | Electric cables for ceilings and floors, snow and ice melting, and freezer-floor frost prevention. |
| 238316      | Radiant-Heating Hydronic Piping            | 12/15      | Embedded pipes, tubes, manifolds, fittings, piping specialties, and controls.                      |
| 238323      | Radiant-Heating Electric Panels            | 03/13      | Factory-fabricated panels.   |
| 238413.16   | Wetted-Element Humidifiers                 | 06/16      | Water-pressure atomizing humidifiers.  |
| 238413.19   | Atomizing Humidifiers                      | 06/16      | Water-pressure or compress-air types.  |
| 238413.23   | Direct-Steam-Injection Humidifiers         | 06/16      | Externally-supplied steam.   |
| 238413.29   | Self-Contained Steam Humidifiers           | 06/16      | Electric resistance, electrode cylinder, and gas-fired steam generator humidifiers.                |
| 238413.36   | Heat Exchanger Humidifiers                 | 06/16      | Steam-to-steam humidifiers.  |
| 238416.13   | Outdoor, Mechanical Dehumidification Units | 12/16      | Outdoor, refrigerant-type mechanical dehumidification equipment.                                   |
| 238416.16   | Indoor, Mechanical Dehumidification Units  | 12/16      | Indoor, refrigerant-type mechanical dehumidification equipment.                                    |

### DIVISION 26 - ELECTRICAL

|          |  |       |   |
|----------|--|-------|---|
| 260513   | Medium-Voltage Cables                              | 03/16 | Cables, splices, terminations, connectors, and fault indicators for 2001 to 35,000 V.     |
| U 260519 | Low-Voltage Electrical Power Conductors and Cables | 12/17 | Building wires, cables, connectors, splices, and terminations rated 2000 V and less.      |
| 260523   | Control-Voltage Electrical Power Cables            | 06/16 | Optical-fiber, twisted pair, low-voltage control cabling; and control-circuit conductors. |
| 260526   | Grounding and Bonding for Electrical Systems       | 03/16 | Methods and materials for grounding systems and equipment.                                |
| U 260529 | Hangers and Supports for Electrical Systems        | 12/17 | Hangers, supports, and concrete bases.  |
| 260533   | Raceways and Boxes for Electrical Systems          | 09/16 | Conduit; pull, junction, and outlet boxes; and electrical cabinets.                       |

N = New U = Update

| Section No. | Section Title  | Issue Date | Section Description  |
|-------------|--|------------|--|
| 260536      | Cable Trays for Electrical Systems                             | 12/16      | Ladder, trough, and single-rail types; steel, aluminum, stainless steel, and fiberglass.   |
| 260539      | Underfloor Raceways for Electrical Systems                     | 12/15      | Ducts, boxes, fittings, and accessories.   |
| 260543      | Underground Ducts and Raceways for Electrical Systems          | 06/16      | Manholes, handholes, and underground ducts.  |
| 260544      | Sleeves and Sleeve Seals for Electrical Raceways and Cabling   | 09/14      | Sleeves and seals for penetrations through floors and walls.   |
| 260548.16   | Seismic Controls for Electrical Systems                        | 06/16      | Seismic criteria and seismic restraints and supports.  |
| 260553      | Identification for Electrical Systems                          | 09/16      | Labels, markers, tags, ties, tape, bands, and signs.   |
| 260573.13   | Short-Circuit Studies  | 03/17      | Fault-current and protective device short-circuit studies.   |
| 260573.16   | Coordination Studies   | 03/17      | Fault-current and protective device coordination studies.  |
| 260573.19   | Arc-Flash Hazard Analysis                                      | 03/17      | Fault-current and protective device arc-flash studies.   |
| 260800      | Commissioning of Electrical Systems                            | 06/15      | Requirements and procedures for commissioning electrical systems.  |
| 260913      | Electrical Power Monitoring and Control                        | 12/16      | Remote and local monitoring, metering, and control of individual circuits.   |
| 260923      | Lighting Control Devices                                       | 03/17      | Time switches, photoelectric relays, occupancy sensors, and multipole lighting controls.   |
| 260933      | Central Dimming Controls                                       | 12/15      | Control network and stations, dimmer cabinets, and dimmers.  |
| 260936      | Modular Dimming Controls                                       | 12/14      | Wall-box multiscene and multipreset modular dimming controls.  |
| 260943.16   | Addressable-Luminaire Lighting Controls                        | 12/16      | Controls based on digital addressable lighting interface (DALI) technology.  |
| 260943.23   | Relay-Based Lighting Controls                                  | 09/16      | Panels using relays for switching; panels networked BAS.   |
| 261116.11   | Secondary Unit Substations with Switchgear Secondary           | 09/16      | 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         | 09/16      | 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 | 09/16      | Indoor and outdoor units; with m-v transformers, and motor-control center secondary.   |
| 261213      | Liquid-Filled, Medium-Voltage Transformers                     | 03/15      | MV, substation transformers, with primary and secondary bushings within or without air-terminal enclosures.                                  |
| 261216      | Dry-Type, Medium-Voltage Transformers                          | 06/13      | MV transformers with primary and secondary bushings within or without air-terminal enclosures.   |
| 261219      | Pad-Mounted, Liquid-Filled, Medium-Voltage Transformers        | 06/13      | Liquid-filled, MV transformers, with primary and secondary bushings within or without air-terminal enclosures.                               |
| 261323      | Medium-Voltage, Metal-Enclosed Switchgear                      | 09/16      | Indoor and outdoor, MV, metal-enclosed switchgear rated more than 1000 V through 38,000 V.   |
| 261326      | Medium-Voltage, Metal-Clad Switchgear                          | 09/16      | Indoor and outdoor, MV, metal-clad switchgear rated more than 1000 V through 38,000 V.   |
| 261329      | Medium-Voltage, Pad-Mounted Switchgear                         | 09/16      | Indoor and outdoor, dead front, remotely controlled insulated vacuum load and fault interrupting switchgear rated to 25,000 V.               |
| 262213      | Low-Voltage Distribution Transformers                          | 03/16      | Single- and three-phase distribution dry-type rated 600 V or less and up to 1500 Kva.  |
| 262216      | Low-Voltage Buck-Boost Transformers                            | 03/16      | Buck-boost dry-type transformers.  |
| 262300      | Low-Voltage Switchgear   | 09/16      | Metal-enclosed, circuit-breaker type; 1000V and less.  |
| 262313      | Paralleling Low-Voltage Switchgear                             | 09/16      | Low-voltage type, 1000V and less; medium-voltage type, 5 to 15 kV; for multiple generator operation.   |

N = New U = Update

| Section No. | Section Title   | Issue Date | Section Description   |
|-------------|---|------------|---|
| 262413      | Switchboards  | 09/16      | Service and distribution switchboards, 600 V and less.  |
| 262416      | Panelboards   | 09/16      | Distribution, branch circuit, and surge-suppression panel boards and load centers.  |
| 262416.16   | Electronically Operated Circuit-Breaker Panelboards         | 12/15      | Manual and programmable panelboards with electronically operated circuit breakers using low-voltage or digital control circuits to control equipment. |
| 262419      | Motor-Control Centers                                       | 09/16      | Full-reduced-voltage; for constant-, variable-, and multiple-speed motors; 600 V.   |
| 262500      | Enclosed Bus Assemblies                                     | 09/14      | Plug in & feeder (600 V or less).   |
| 262713      | Electricity Metering  | 09/16      | Energy and demand metering by utility and Owner.  |
| 262726      | Wiring Devices  | 12/16      | Switches, receptacles, lighting-control devices, and plates.  |
| 262733      | Power Distribution Units                                    | 09/16      | Voltage regulators, static electronic voltage regulators, and power distribution units.   |
| 262743      | Electric-Vehicle Service Equipment - AC Level 1 and Level 2 | 09/16      | Charging equipment for AC Level 1 and 2.  |
| 262746      | Electric Vehicle Service Equipment - DC Level 1 and Level 2 | 09/16      | Charging equipment for DC Level 1 and 2.  |
| 262813      | Fuses   | 09/16      | Cartridge type (600 V and less); plug type (125 V and less); fuse adapters; spare-fuse cabinet.   |
| 262816      | Enclosed Switches and Circuit Breakers                      | 09/16      | Fusible, nonfusible, receptacle, shunt trip, and molded-case switches; molded-case circuit breakers; enclosures.                                      |
| 262913.03   | Manual and Magnetic Motor Controllers                       | 09/16      | Manual, reduced- and full-voltage start magnetic motor controllers.   |
| 262913.06   | Soft-Start Motor Controllers                                | 09/16      | Reduced-voltage start motor controllers.  |
| 262923      | Variable-Frequency Motor Controllers                        | 09/16      | Solid-state, pulse-width modulated, constant- and variable-torque; VFCs; rated 600 V and less.  |
| 262933      | Controllers for Fire-Pump Drivers                           | 12/16      | Full- and limited-service, electric-driver controllers; and diesel-driver controllers.  |
| 263100      | Photovoltaic Collectors                                     | 09/15      | Photovoltaic laminates, modules, charge controllers, inverters, and mounting structures.  |
| 263213.13   | Diesel Emergency Engine Generators                          | 09/15      | Diesel-driven emergency and standby generators.   |
| 263213.14   | Diesel Engine Generators                                    | 09/15      | Diesel-driven non-emergency (prime and industrial) generators.  |
| 263213.16   | Gaseous Emergency Engine Generators                         | 09/15      | Natural gas and liquified petroleum (LP)-driven emergency and standby generators.   |
| 263213.17   | Gaseous Engine Generators                                   | 09/15      | Natural gas and liquified petroleum (LP)-driven non-emergency (prime and industrial) engine generators.   |
| 263213.19   | Bi-Fuel Emergency Engine Generators                         | 09/15      | Diesel start, natural gas powered emergency and standby generators.   |
| 263213.20   | Bi-Fuel Engine Generators                                   | 09/15      | Diesel start, natural gas powered prime and industrial engine generators.   |
| 263223.13   | Horizontal-Axis Wind Turbines                               | 03/17      | Horizontal-axis, small-scale wind turbines.   |
| 263223.16   | Vertical-Axis Wind Turbines                                 | 03/17      | Vertical-axis, small-scale wind turbines.   |
| 263323.11   | Central Battery Equipment for Emergency Lighting            | 09/16      | Central battery equipment for standby power to emergency lighting circuits.   |
| N 263343    | Battery Chargers  | 12/17      | Battery chargers used to automatically control and maintain the charge on emergency engine generator start batteries.                                 |
| 263353      | Static Uninterruptible Power Supply                         | 12/16      | 3-phase, on-line, double conversion units rated 5 to 750 kVA for systems (600 V and less).  |
| 263533      | Power Factor Correction Equipment                           | 09/16      | Capacitors and automatic power-factor correction units for 600 V and less.  |
| 263600      | Transfer Switches   | 06/16      | Automatic, nonautomatic, and bypass/isolation.  |

N = New U = Update

| Section No. | Section Title  | Issue Date | Section Description   |
|-------------|--|------------|---|
| 264113      | Lightning Protection for Structures                        | 12/16      | Protection for buildings and site components.   |
| 264313      | Surge Protection for Low-Voltage Electrical Power Circuits | 06/11      | Field-mounted surge protective devices (SPDs) 1000 -V and less.   |
| 265113      | Incandescent Interior Lighting                             | 03/16      | Interior incandescent luminaires and lamps.   |
| 265116      | Fluorescent Interior Lighting                              | 06/15      | Interior fluorescent cove, down, flood, wall, linear and track lighting.  |
| 265119      | Led Interior Lighting                                      | 12/16      | Interior chandelier, cove, down, flood, highbay/lowbay/industrial, wall mount, linear, step and track LED lighting systems. |
| 265123      | Hid Interior Lighting                                      | 03/16      | Interior highbay, lowbay and industrial HID fixtures.   |
| 265213      | Emergency and Exit Lighting                                | 09/16      | Emergency lighting, except for combination LED sign/halogen fixtures.   |
| 265561      | Theatrical Lighting  | 12/16      | Dimmer racks; control console and devices; distribution components; lighting fixtures.                                      |
| 265613      | Lighting Poles and Standards                               | 03/16      | Standards and lowering devices for suspension of lighting fixtures and other accessories.                                   |
| 265617      | Fluorescent Exterior Lighting                              | 03/16      | Exterior fluorescent luminaires, including bollards, boarder, canopy, and decorative post top lighting.                     |
| 265619      | Led Exterior Lighting                                      | 03/16      | Exterior LED luminaires, including bollards, boarder, canopy, and decorative post top lighting.                             |
| 265621      | Hid Exterior Lighting                                      | 03/16      | Exterior HID luminaires, including area and site, bollards, boarder, canopy, decorative post top, and roadway lighting.     |
| 265668      | Exterior Athletic Lighting                                 | 12/16      | Outdoor lighting for sports fields.   |

### DIVISION 27 - COMMUNICATIONS

|           |  |       |   |
|-----------|--|-------|---|
| 270526    | Grounding and Bonding for Communications Systems                 | 06/16 | Grounding for communications systems and equipment; for reliable signal reference.                  |
| 270528    | Pathways for Communications Systems                              | 09/16 | Conduits, wireways, surface pathways, boxes and enclosures, and handholes and boxes.                |
| U 270529  | Hangers and Supports for Communications Systems                  | 12/17 | Hangers, supports, and concrete bases.  |
| 270536    | Cable Trays for Communications Systems                           | 06/16 | Ladder, trough wire basket, and single-rail type; steel, aluminum, stainless steel, and fiberglass. |
| 270543    | Underground Pathways and Structures for Communication Systems    | 06/15 | Ducts, pathways, handholes, manholes, and accessories for OSP and CO-OSP.                           |
| 270544    | Sleeves and Sleeve Seals for Communications Pathways and Cabling | 09/14 | Sleeves and seals for penetrations through floors and walls.  |
| 270548.16 | Seismic Controls for Communications Systems                      | 06/16 | Seismic criteria and seismic restraints and supports.   |
| 270553    | Identification for Communications Systems                        | 06/16 | Labels, markers, tags, ties, tape, bands, and signs.  |
| 271100    | Communications Equipment Room Fittings                           | 06/16 | Telecommunications backboards, boxes, and enclosures  |
| 271116    | Communications Racks, Frames, and Enclosures                     | 06/16 | 19- and 23-inch wide and OpenRack compliant IT racks.   |
| 271313    | Communications Copper Backbone Cabling                           | 09/16 | Copper backbone cables, connecting hardware, and cable identification systems.                      |
| 271323    | Communications Optical Fiber Backbone Cabling                    | 12/16 | Optical fiber backbone cables, connecting hardware, and cable identification systems.               |
| 271333    | Communications Coaxial Backbone Cabling                          | 12/16 | Coaxial backbone communications cabling and fittings.   |
| 271513    | Communications Copper Horizontal Cabling                         | 09/16 | Copper horizontal cables, connecting hardware, and cable identification systems.                    |
| 271523    | Communications Optical Fiber Horizontal Cabling                  | 12/16 | Optical fiber horizontal cables, connecting hardware, and cable identification systems.             |
| 271533    | Communications Coaxial Horizontal Cabling                        | 12/16 | Coaxial horizontal communications cabling and fittings.   |
| 271611    | Communications Hybrid Cabling                                    | 12/16 | Combined copper and fiber optic cabling.  |

N = New U = Update

| Section No. | Section Title  | Issue Date | Section Description   |
|-------------|--|------------|---|
| 274133      | Master Antenna Television System                           | 09/16      | MATV with options for off-air antennas, CATV, or broadcast satellite service.                       |
| 275116      | Public Address Systems                                     | 12/16      | Amplifiers, speakers, and microphones.  |
| 275119.11   | Sound Masking Systems                                      | 06/16      | Electronic noise generators, amplifiers, speakers, and controls.                                    |
| 275123.20   | Commercial Intercommunications and Program Systems         | 06/16      | Manually and Microprocessor-switched intercommunications and program systems.                       |
| 275123.31   | Residential Intercommunications and Access Control Systems | 06/16      | Manually and microprocessor-switched intercommunications and access control.                        |
| 275123.50   | Educational Intercommunications and Program Systems        | 06/16      | Manually and microprocessor-switched systems.   |
| 275223      | Nurse Call/Code Blue Systems                               | 06/16      | Visual/tone; and microprocessor-based, addressable, audiovisual/voice system.                       |
| 275313      | Clock Systems  | 06/16      | Master and secondary clocks and signal devices; interface with intercom and public address systems. |

### DIVISION 28 - ELECTRONIC SAFETY AND SECURITY

|           |   |       |   |
|-----------|---|-------|---|
| 281300    | Access Control Software and Database Management | 09/16 | Computer controlled, with interface to other facility management systems.   |
| 281500    | Access Control Hardware Devices                 | 09/16 | Push buttons, card readers, and other security hardware.  |
| 282000    | Video Surveillance                              | 09/16 | Cameras, data transmission wiring, monitors, and control equipment.   |
| 283100    | Intrusion Detection                             | 09/16 | Detection devices, controls, and alarms.  |
| 283121    | Area and Perimeter Intrusion Detection          | 09/16 | Detection devices, controls, and alarms on the site perimeter.  |
| 284400    | Refrigerant Detection and Alarm                 | 09/16 | Monitors, alarms, breathing apparatus, and ventilation equipment interlocks.  |
| 284621.11 | Addressable Fire-Alarm Systems                  | 03/17 | Systems with addressable initiating devices and conventional or addressable notification appliances.  |
| 284621.13 | Conventional Fire-Alarm Systems                 | 09/16 | Small systems for buildings relying on zoned fire-alarm concept.  |
| 284700    | Mass Notification Systems                       | 09/16 | 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        | 09/16 | Monitoring and control of doors, gates, and related items for detention facilities.   |

### DIVISION 31 - EARTHWORK

|        |                                   |       |   |
|--------|-----------------------------------|-------|---|
| 311000 | Site Clearing                     | 02/13 | Clearing, grubbing, vegetation protection, stripping and stockpiling topsoil and rock, and disconnecting utilities. |
| 312000 | Earth Moving                      | 09/17 | Excavating, filling and backfilling, compacting, and grading.   |
| 312319 | Dewatering                        | 12/16 | Temporary construction dewatering requirements for ground-water control.  |
| 313116 | Termite Control                   | 02/13 | Chemical soil treatment, borate wood treatment, bait stations, and permanent metal mesh barriers.                   |
| 315000 | Excavation Support and Protection | 09/17 | Temporary systems; soldier piles and lagging, sheet piling, tiebacks, and bracing.                                  |
| 316213 | Concrete Piles                    | 09/17 | Driven precast, prestressed concrete piles.   |
| 316216 | Steel Piles                       | 09/17 | Driven steel H-section piles.   |
| 316219 | Timber Piles                      | 09/17 | Driven preservative-treated round timber piles.   |
| 316223 | Composite Piles                   | 09/17 | Driven concrete-filled steel shell and steel pipe piles.  |
| 316316 | Auger Cast Grout Piles            | 09/17 | Piles excavated by auger drilling and filled with grout.  |

N = New U = Update

| Section No.                                | Section Title                                | Issue Date | Section Description  |
|--|--|------------|--|
| 316329                                     | Drilled Concrete Piers and Shafts            | 09/17      | Dry-installed and slurry-displacement-installed types.   |
| <b>DIVISION 32 - EXTERIOR IMPROVEMENTS</b> |  |            |  |
| 321216                                     | Asphalt Paving                               | 06/16      | Paving, overlays, surface treatments, asphalt curbs, asphalt traffic-calming devices, cold milling, and hot-mix patching.  |
| 321223                                     | Imprinted Asphalt                            | 06/16      | Embossing patterns in new or existing asphalt pavement.  |
| 321313                                     | Concrete Paving                              | 03/15      | Concrete curbs and gutters, walks, driveways, parking lots, and miscellaneous paving.  |
| 321316                                     | Decorative Concrete Paving                   | 06/14      | Surface-imprinted, stamped, stencil-patterned, or stained finish concrete paving.  |
| 321373                                     | Concrete Paving Joint Sealants               | 11/12      | Sealants for concrete and asphalt pavement joints.   |
| 321400                                     | Unit Paving                                  | 06/17      | Brick, asphalt, concrete, and stone pavers on aggregate, mortar, and bituminous setting beds.  |
| 321443                                     | Porous Unit Paving                           | 12/16      | Concrete, grid-type and interlocking type with openings between units.   |
| 321713                                     | Parking Bumpers                              | 06/16      | Wheel stops applied to asphalt or concrete pavement.   |
| 321716                                     | Manufactured Traffic-Calming Devices         | 06/16      | Preformed rubber or plastic traffic-calming devices applied to asphalt or concrete pavement.   |
| 321723                                     | Pavement Markings                            | 06/16      | Painted markings applied to asphalt or concrete pavement.  |
| 321726                                     | Tactile Warning Surfacing                    | 06/14      | Detectable warning tiles and mats located in concrete walkways; detectable warning pavers.   |
| 321813                                     | Synthetic Grass Surfacing                    | 12/16      | Synthetic grass surfacing, or artificial turf, intended for use in sports.   |
| 321816.13                                  | Playground Protective Surfacing              | 12/16      | Impact-attenuating, protective surfacing for use under public playground equipment.  |
| 323113                                     | Chain Link Fences and Gates                  | 12/16      | Standard chain-link fencing systems with swing or horizontal-slide gates and gate operators.   |
| 323113.53                                  | High-Security Chain Link Fences and Gates    | 12/16      | High-security chain-link fencing systems with swing or horizontal-slide gates and gate operators.  |
| 323116                                     | Welded Wire Fences and Gates                 | 12/16      | Metallic-coated-steel, welded-wire fences and gates.   |
| 323119                                     | Decorative Metal Fences and Gates            | 12/16      | Manufactured and custom-designed fences and gates made from steel, aluminum, or metallic-coated steel.   |
| 323119.53                                  | Decorative Metal Security Fences and Gates   | 12/16      | Metallic-coated-steel security fences and gates.   |
| 323223                                     | Segmental Retaining Walls                    | 12/16      | Dry-laid concrete masonry unit retaining walls.  |
| 323300                                     | Site Furnishings                             | 09/16      | Seating, tables, bicycle racks and lockers, trash and ash receptacles, planters, and bollards for outdoor locations.   |
| 328400                                     | Planting Irrigation                          | 12/16      | Heads, pipes, and controls.  |
| 329113                                     | Soil Preparation                             | 12/16      | Planting soils specified according to quantities of amendments (compost, lime, sulfur, fertilizer, etc.); layered soil assemblies.                                   |
| 329115                                     | Soil Preparation (Performance Specification) | 12/16      | Planting soils specified according to tested performance requirements (particle size, organic matter percentage, pH, CEC, fertility, etc.); layered soil assemblies. |
| 329200                                     | Turf and Grasses                             | 12/16      | Seeded, sodded, plugged, and sprigged turf and meadows; pesticides; erosion-control materials; turf renovation; and grass paving.                                    |
| 329300                                     | Plants                                       | 12/16      | Nursery-grown trees and other plants, pesticides, tree stabilization, tree watering devices, landscape edgings, and tree grates.                                     |
| 329600                                     | Transplanting                                | 11/11      | Transplanting non-nursery-grown trees; tree stabilization; watering devices.   |

N = New U = Update

| Section No.                    | Section Title  | Issue Date | Section Description   |
|--------------------------------|--|------------|---|
| <b>DIVISION 33 - UTILITIES</b> |  |            |   |
| 330500                         | Common Work Results for Utilities                    | 03/11      | Basic piping materials and methods.   |
| 331113                         | Potable Water Supply Wells                           | 09/16      | Drilled and driven wells and well pumps.  |
| 334200                         | Stormwater Conveyance                                | 09/17      | Gravity and forced storm piping, underground structures, and specialties.                 |
| 334600                         | Subdrainage  | 03/10      | Drainage for foundations, underslabs, plaza decks, retaining walls, and landscaped areas. |
| 334713                         | Pond and Reservoir Liners                            | 09/17      | Geomembrane liners and covers.  |
| 336313                         | Underground Steam and Condensate Distribution Piping | 12/16      | Underground piping serving one or more buildings.   |
| 337149.13                      | Overhead Medium-Voltage Wiring                       | 12/16      | Medium and secondary voltage (up to 35 kV).   |
| 337753                         | Medium-Voltage Utility Reclosers                     | 09/16      | Overhead, automatic circuit reclosers.  |

MasterFormat® is produced jointly by The Construction Specifications Institute (CSI) and Construction Specifications Canada (CSC). U.S. copyright is held by CSI and Canadian copyright by CSC. All Rights Reserved. For more information on MasterFormat visit [www.MasterFormat.com](http://www.MasterFormat.com)