

| Section No. | Section Title | Section Description |
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| DIVISION | 00 - PROCUREMENT AND CONTRACTING REQUIREM | MENTS |
| 000101 | Project Title Page | Project Manual title page. |
| 000107 | Seals Page | For seals of design professionals on Project Manual. |
| 000115 | List of Drawing Sheets | List of Drawings. |
| 000120 | List of Schedules | For a list of separately bound schedules. |
| 001113 | Advertisement for Bids | For use on public projects. |
| 001115 | Advertisement for Prequalification of Bidders | For use on public projects. |
| 001116 | Invitation to Bid | For use on private projects. |
| 001153 | Request for Qualifications | For use on public projects. |
| 002113 | Instructions to Bidders | Incorporates AIA A701 by reference. |
| 002213 | Supplementary Instructions to Bidders | For use with AIA A701. |
| 002513 | Prebid Meetings | Sets date, time, place, and terms for prebid meetings. |
| 002600 | Procurement Substitution Procedures | Substitution procedures during bidding. |
| 003113 | Preliminary Schedules | Preliminary schedules. |
| 003119 | Existing Condition Information | References documents for survey and as-built information. |
| 003126 | Existing Hazardous Material Information | References documents for existing hazardous materials. |
| 003132 | Geotechnical Data | References documents for geotechnical data. |
| 003143 | Permit Application | Indicates responsibility for building permit application. |
| 004113 | Bid Form - Stipulated Sum (Single-Prime Contract) | Fixed price, single prime. |
| 004116 | Bid Form - Stipulated Sum (Multiple-Prime Contract) | Fixed price, multiple prime. |
| 004123 | Bid Form - Construction Management (Single-Prime Contract) | Fixed price, construction management, single prime. |
| 004126 | Bid Form - Construction Management (Multiple-Prime Contract) | Fixed price, construction management, multiple prime. |
| 004133 | Bid Form - Cost-Plus-Fee (Single-Prime Contract) | Cost plus, with or without guaranteed maximum. |
| 004313 | Bid Security Forms | References AIA A310. |
| 004321 | Allowance Form | Attachment for Bid Form. |
| 004322 | Unit Prices Form | Attachment for Bid Form. |
| 004323 | Alternates Form | Attachment for Bid Form. |
| 004373 | Proposed Schedule of Values Form | Attachment for Bid Form. |
| 004393 | Bid Submittal Checklist | Attachment for Bid Form. |
| 005100 | Notice of Award | For notifying successful bidder. |
| 006000 | Project Forms | References Agreement, General Conditions, and administrative forms. |
| 009113 | Addenda | For notifying bidders of changes. |
| DIVISION | 01 - GENERAL REQUIREMENTS | |
| U 010000 | General Requirements | Evaluations: Role of Division 1 Sections, their preparation and coordination. |
| U 011000 | Summary | Summary of the Work, phased construction, purchase contracts, Owner-furnished products, access to site, and work restrictions. |
| 011200 | Multiple Contract Summary | Responsibilities of each contract for the Work, coordination, and temporary facilities and controls. |
| U 012100 | Allowances | Provisions for cash allowances including lump-sum, unit cost, contingency, and testing and inspecting allowances. |
| U 012200 | Unit Prices | Provisions for unit prices. |



Alternates

U 012300

Provisions for change-of-scope and cost-comparison type alternates.



| Section No. | Section Title | Section Description |
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| U 012500 | Substitution Procedures | Procedural requirements for requests for substitutions during construction. |
| U 012600 | Contract Modification Procedures | Procedural requirements for changes to the Contract. |
| U 012900 | Payment Procedures | Administrative requirements for Contractor's Applications for Payment. |
| U 013100 | Project Management and Coordination | Administrative requirements for project meetings; preconstruction, preinstallation, and project closeout conferences; RFIs; and project Web sites. |
| U 013200 | Construction Progress Documentation | Contractor's Construction Schedule including Gantt charts and CPM schedules; and web-based project software. |
| U 013233 | Photographic Documentation | Construction photographs, video recordings, and web- based photographic documentation. |
| U 013300 | Submittal Procedures | Procedures for Action and Informational Submittals including Delegated-Design Submittals and Submittals Schedule. |
| 013516 | Alteration Project Procedures | General protection and work procedures for remodeling, renovation, repair, and maintenance work. |
| U 014000 | Quality Requirements | Quality-assurance and -control requirements, special tests and inspections, and Contractor's quality-control plan. |
| 014200 | References | Common definitions and terms; and acronyms and trade names of associations, government agencies, and other entities referenced in MasterSpec. |
| U 015000 | Temporary Facilities and Controls | Temporary utilities and facilities for construction support, security, and protection. |
| U 016000 | Product Requirements | Administrative and procedural requirements for product, material, and equipment selection and handling; warranties; and comparable products. |
| U 017300 | Execution | General requirements for product installation, cutting and patching, protection, field engineering, and progress cleaning. |
| 017419 | Construction Waste Management and Disposal | Salvaging, recycling, and disposing of non-hazardous demolition and construction waste. |
| U 017700 | Closeout Procedures | Contract closeout including Substantial Completion and Final Completion procedures, warranties, and final cleaning. |
| 017823 | Operation and Maintenance Data | Emergency, operation, and maintenance manuals for products and equipment. |
| U 017839 | Project Record Documents | Record record Drawings, Specifications, and Product Data. |
| 017900 | Demonstration and Training | Administrative and procedural requirements for instructing Owner's personnel in operation and maintenance. |
| 018113.13 | Sustainable Design Requirements - LEED 2009 for New Construction and Major Renovations | General requirements and procedures for LEED 2009 for New Construction and Major Renovations. |
| 018113.14 | Sustainable Design Requirements - LEED v4 BD+C | General requirements and procedures for LEED v4 BD+C. |
| 018113.16 | Sustainable Design Requirements - LEED 2009 for Commercial Interiors | General requirements and procedures for LEED 2009 for Commercial Interiors. |
| 018113.17 | Sustainable Design Requirements - LEED v4 ID+C | General requirements and procedures for LEED v4 ID+C. |
| 018113.19 | Sustainable Design Requirements - LEED 2009 for Core and Shell Development | General requirements and procedures for LEED 2009 for Core and Shell Development. |
| 018113.23 | Sustainable Design Requirements - LEED 2009 for Schools | General requirements and procedures for LEED 2009 for Schools. |
| 018113.33 | Sustainable Design Requirements - IgCC | General requirements and procedures for IgCC. |
| 018113.43 | Sustainable Design Requirements - ASHRAE 189.1 | General requirements and procedures for ASHRAE 189.1. |
| 018113.53 | Sustainable Design Requirements - Green Globes | General requirements and procedures for Green Globes. |
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| Section No. | Section Title | Section Description |
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| DIVISION 0 | 2 - EXISTING CONDITIONS | |
| 024116 | Structure Demolition | Demolition of existing buildings, structures, and associated site improvements. |
| 024119 | Selective Demolition | Demolition of selected portions of existing buildings, structures, and associated site improvements. |
| DIVISION 0 | 5 - METALS | |
| 055000 | Metal Fabrications | Metal items (not sheet metal) made from iron and steel shapes, stainless steel, and non-ferrous metals. |
| 055313 | Bar Gratings | Metal bar gratings and frames. |
| 055316 | Plank Gratings | Metal plank gratings and frames. |
| 055319 | Expanded Metal Gratings | Expanded metal gratings and frames. |
| 057100 | Decorative Metal Stairs | Architectural steel stairs. |
| DIVISION 0 | 6 - WOOD, PLASTICS, AND COMPOSITES | |
| 061000 | Rough Carpentry | Wood framing, furring, frounds, nailers, and blocking. |
| 061053 | Miscellaneous Rough Carpentry | Minor wood framing, furring, grounds, nailers, and blocking. |
| 067413 | Fiberglass Reinforced Gratings | Fiberglass bar gratings and frames. |
| U 076200 | 7 - THERMAL AND MOISTURE PROTECTION Sheet Metal Flashing and Trim | Custom-fabricated roof and wall flashings and roof- drainage systems, and manufactured through-wall flashing and reglets. |
| U 077200 | Roof Accessories | Roof curbs, equipment supports, roof hatches, heat and smoke vents, gravity ventilators, pipe supports, roof walkways, and preformed flashing sleeves. |
| 078413 | Penetration Firestopping | Systems installed in fire-resistance-rated walls, horizontal assemblies, and smoke barriers. |
| 079200 | Joint Sealants | Elastomeric joint sealants including, silicone, urethane, STPE, polysulfide, butyl, and latex. |
| DIVISION 0 | 8 - OPENINGS | |
| 083113 | Access Doors and Frames | Wall and ceiling units. |
| 083113.53 | Security Access Doors and Frames | Medium-, high-, and maximum-security units for walls and ceilings. |
| 083473.13 | Metal Sound Control Door Assemblies | Assemblies consisting of steel doors, steel frames, and sound control seals. |
| 083473.16 | Wood Sound Control Door Assemblies | Assemblies consisting of wood doors, steel frames, and sound control seals. |
| 089116 | Operable Wall Louvers | Operable (adjustable) metal louvers including those with insulated blades. |
| 089119 | Fixed Louvers | Fixed metal louvers. |
| DIVISION 0 | 9 - FINISHES | |
| 099113 | Exterior Painting | Exterior painting. |
| 099123 | Interior Painting | Interior painting. |
| 099600 | High-Performance Coatings | Tile-like coatings for use on exterior and interior substrates. |
| 099633 | High-Temperature-Resistant Coatings | Heat-resistant coatings for use on exterior and interior substrates. |





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| DIVISION 1 | 0 - SPECIALTIES | |
| 104413 | Fire Protection Cabinets | Fire-protection cabinets and security fire-protection cabinets. |
| 104416 | Fire Extinguishers | Portable and wheeled fire extinguishers. |
| DIVISION 1 | 1 - EQUIPMENT | |
| 115313 | Laboratory Fume Hoods | Hoods and hood stands, including work tops. |
| DIVISION 2 | 1 - FIRE SUPPRESSION | |
| 210513 | Common Motor Requirements for Fire Suppression Equipment | Universal default values for small and medium, ac motors. |
| 210517 | Sleeves and Sleeve Seals for Fire-Suppression Piping | Sleeves and sleeve seals for piping at floor and wall penetrations. |
| 210518 | Escutcheons for Fire-Suppression Piping | Escutcheons and floor plates for piping at ceiling, floor and wall penetrations. |
| 210523 | General-Duty Valves for Fire Protection Piping | Valves common to most fire-protection piping. |
| 210529 | Hangers and Supports for Fire Supression Piping and Equipment | Single and multiple hangers, framing systems, and stands and supports. |
| 210533 | Heat Tracing for Fire-Suppression Piping | Electric cables for freeze protection. |
| 210548 | Vibration and Seismic Controls for Fire-Suppression Piping and Equipment | Vibration isolation devices and seismic restraints. |
| 210548.13 | Vibration Controls for Fire-Suppression Piping and Equipment | Vibration isolation devices. |
| 210553 | Identification for Fire-Suppression Piping and Equipment | Labels, stencils, and tags. |
| 210700 | Fire-Suppression Systems Insulation | Equipment and pipe insulation. |
| 211100 | Facility Fire-Suppression Water-Service Piping | Fire suppression piping and specialties outside the building. |
| 211116 | Facility Fire Hydrants | AWWA and UL listed dry- and wet-barrel fire hydrants. |
| 211119 | Fire Department Connections | Exposed-, flush-, and yard-type fire-department connections. |
| 211200 | Fire-Suppression Standpipes | Piping, specialties, valves, hose valves, and hose stations. |
| 211213 | Fire-Suppression Hoses and Nozzles | Hoses, reels, and racks for rack- and reel-type hose stations; and fire-suppression monitors. |
| 211313 | Wet-Pipe Sprinkler Systems | Piping, specialties, valves, and sprinklers for wet-pipe sprinkler systems. |
| 211316 | Dry-Pipe Sprinkler Systems | Piping, specialties, valves, and sprinklers for dry-pipe and preaction sprinkler systems. |
| U 211339 | Foam-Water Systems | Fixed, low-expansion, AFFF systems for flammable-liquid fires. |
| 212113.13 | High-Pressure, Carbon-Dioxide Fire-Extinguishing Systems | Piping, fittings, and specialties for sytems that deliver carbon dioxide for fire extinguishing and suppression. |
| | Low-Pressure, Carbon-Dioxide Fire-Extinguishing Systems | Piping, fittings, and specialties for systems that deliver carbon dioxide for fire extinguishing and suppression. |
| J 212200 | Clean-Agent Fire-Extinguishing Systems | Piping, containers, detection and alarms, and controls for clean-agent systems. |
| 213113 | Electric-Drive, Centrifugal Fire Pumps | End-suction, in-line, and split-case fire pumps; accessories, specialties, and flowmeter systems. |
| 213116 | Diesel-Drive, Centrifugal Fire Pumps | End-suction, in-line, and split-case fire pumps; accessories, specialties, and flowmeter systems. |
| 213213 | Electric-Drive, Vertical-Turbine Fire Pumps | Fire pumps, accessories, specialties, and flowmeter systems. |
| 213216 | Diesel-Drive, Vertical-Turbine Fire Pumps | Fire pumps, accessories, specialties, and flowmeter systems. |
| 213413 | Pressure-Maintenance Pumps | Multistage, regenerative turbine, submersible, and vertical-turbine pumps; pump controllers. |





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| IVISION 2 | 2 - PLUMBING | |
| 220513 | Common Motor Requirements for Plumbing Equipment | Universal default values for small and medium, ac motors. |
| 220516 | Expansion Fittings and Loops for Plumbing Piping | Expansion joints and expansion-compensation devices for plumbing piping. |
| 220517 | Sleeves and Sleeve Seals for Plumbing Piping | Sleeves and sleeve seals for piping at floor and wall penetrations. |
| 220518 | Escutcheons for Plumbing Piping | Escutcheons and floor plates for piping at ceiling, floor, and wall penetrations. |
| 220519 | Meters and Gages for Plumbing Piping | Temperature, pressure, and flow. |
| 220523.12 | Ball Valves for Plumbing Piping | Ball valves common to multiple systems. |
| 220523.13 | Butterfly Valves for Plumbing Piping | Butterfly valves common to multiple systems. |
| 220523.14 | Check Valves for Plumbing Piping | Check valves common to multiple systems. |
| 220523.15 | Gate Valves for Plumbing Piping | Gate valves common to multiple systems. |
| 220529 | Hangers and Supports for Plumbing Piping and Equipment | Single and multiple hangers, framing systems, and stands and supports. |
| 220533 | Heat Tracing for Plumbing Piping | Electric cables for freeze protection, snow and ice melting, and temperature maintenance. |
| 220548 | Vibration and Seismic Controls for Plumbing Piping and Equipment | Vibration isolation devices and seismic restraints. |
| 220548.13 | Vibration Controls for Plumbing Piping and Equipment | Vibration isolation devices. |
| 220553 | Identification for Plumbing Piping and Equipment | Labels, stencils, and tags. |
| 220716 | Plumbing Equipment Insulation | Insulation materials, jackets, and installation accessorie for plumbing equipment. |
| 220719 | Plumbing Piping Insulation | Insulation materials, jackets, and installation accessorie for plumbing piping. |
| 221113 | Facility Water Distribution Piping | Utility service, domestic, and fire-protection water, specialties, and valves. |
| 221116 | Domestic Water Piping | Potable-water distribution within the building. |
| 221117 | Gray-Water Piping | Non-potable water piping. |
| 221119 | Domestic Water Piping Specialties | Specialties, valves, and fittings for domestic water piping. |
| 221123.13 | Domestic-Water Packaged Booster Pumps | Water-pressure boosters, simplex and multi-plex; constant- and variable speed pumps. |
| 221123.21 | Inline, Domestic-Water Pumps | In-line separately coupled, close-coupled, centrifugal pumps. |
| 221216 | Facility Elevated, Potable-Water Storage Tanks | Above-ground water storage. |
| 221219 | Facility Ground-Mounted, Potable-Water Storage Tanks | Surface-mounted water storage. |
| 221223.11 | Facility Indoor Potable-Water Storage Tanks | Water storage; compression and diaphragm. |
| 221313 | Facility Sanitary Sewers | Sanitary sewerage and underground structures outside the building. |
| 221316 | Sanitary Waste and Vent Piping | Soil, waste, and vent piping within the building. |
| 221319 | Sanitary Waste Piping Specialties | Backwater and air admittance valves, cleanouts, sanitary assemblies, FOG systems, and sanitary drainage specialties. |
| 221319.13 | Sanitary Drains | Floor and trench drains, and channel drain systems. |
| 221323 | Sanitary Waste Interceptors | Grease, oil, and sand interceptors for sewerage system outside the building. |
| 221329 | Sanitary Sewerage Pumps | Effluent pumps; automatic, packaged; basins and covers. |
| 221343 | Facility Packaged Sewage Pumping Stations | Pump, compressor, tank, and controls. |
| 221353 | Facility Septic Tanks | Tank, distribution box, and drainage pipe. |
| 221363 | Facility Gray-Water Storage Tanks | Above-ground gray-water storage. |





| Section No. | Section Title | Section Description |
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| 221413 | Facility Storm Drainage Piping | Stormwater piping within the building. |
| 221423 | Storm Drainage Piping Specialties | Roof drains, cleanouts, trench drains, channel drains, and piping specialties. |
| 221429 | Sump Pumps | Submersible, wet-pit volute, and package drainage-pump units; basins and covers. |
| 221463 | Facility Storm-Water Retention Tanks | Above-ground storm-water storage. |
| 221513 | General-Service Compressed-Air Piping | Nonmedical piping, equipment, and accessories. |
| 221519 | General-Service Packaged Air Compressors and Receivers | Nonmedical air compressors, filters, and dryers. |
| 223100 | Domestic Water Softeners | Domestic and general use, not treatment. |
| 223200 | Domestic Water Filtration Equipment | Separators; and bag, cartridge, carbon, sand, and greensand filters. |
| 223300 | Electric, Domestic-Water Heaters | Household and commercial; tankless, instantaneous, and storage types. |
| 223400 | Fuel-Fired, Domestic-Water Heaters | Household and commercial; gas and oil fired; instantaneous and storage types. |
| 223500 | Domestic-Water Heat Exchangers | Steam and hot-water heat exchangers; instantaneous and storage types. |
| 224100 | Residential Plumbing Fixtures | Residential water closets, lavatories, sinks, bathtubs, and shower receptors and basins. |
| 224213.13 | Commercial Water Closets | Commercial water closets, supports, flushometer valves and supplies. |
| 224213.16 | Commercial Urinals | Commercial urinals, supports, and flushometer valves. |
| 224216.13 | Commercial Lavatories | Commercial lavatories, supports, faucets, traps, and supplies. |
| 224216.16 | Commercial Sinks | Commercial sinks, supports, faucets, traps, and supplies. |
| 224223 | Commercial Showers | Shower receptors, basins, enclosures, faucets, and heads. |
| 224233 | Wash Fountains | Stone, metal, and plastic wash fountains. |
| 224300 | Healthcare Plumbing Fixtures | Plumbing fixtures for healthcare facilities. |
| 224500 | Emergency Plumbing Fixtures | Individual and combination emergency eyewash and shower units. |
| 224600 | Security Plumbing Fixtures | Detention facility plumbing fixtures. |
| 224713 | Drinking Fountains | Pedestal, antifreeze pedestal, wheelchair accessible, wall mounted. |
| 224716 | Pressure Water Coolers | Freestanding, wall mounted, and wheelchair accessible. |
| 224723 | Remote Water Coolers | Remote water chillers. |
| 226113 | Compressed-Air Piping for Laboratory and Healthcare Facilities | Piping for nonmedical laboratory air, medical air, dental air, instrument air, and medical laboratory air. |
| 226119 | Compressed-Air Equipment for Laboratory and Healthcare Facilities | Compressors, filters, and dryers for laboratory and healthcare facilities. |
| 226213 | Vacuum Piping for Laboratory and Healthcare Facilities | Piping for laboratory vacuum, medical surgical vacuum, waste anesthetic gas, dental vacuum, oral evacuation, and healthcare laboratory vacuum. |
| 226219 | Vacuum Equipment for Laboratory and Healthcare Facilities | Vacuum producers and accessories for laboratory and healthcare facilities. |
| 226313 | Gas Piping for Laboratory and Healthcare Facilities | Piping for CO2, helium, NO2, and O2. |
| 226400 | Medical Gas Alarms | Alarms for medical gas systems. |
| U 226600 | Chemical-Waste Systems for Laboratory and Healthcare Facilities | Single- and double-wall piping and specialties, neutralization tanks, and leak detection. |
| 226700 | Processed Water Systems for Laboratory and Healthcare Facilities | Pipe, fittings, and specialties for deionized, distilled, and reverse osmosis water. |
| 226713 | Processed Water Piping for Laboratory and Healthcare Facilities | Pipe, fittings, and valves for reagent, deionized, distilled, and reverse osmosis water. |
| 226719 | Processed Water Equipment for Laboratory and Healthcare Facilities | Equipment for reagent, deionized, distilled, and reverse osmosis water. \\\\ |





| Seleves and Sleeve Seals for HVAC Piping Seleves seals for piping at floor and wall penetrations. | Section No. | Section Title | Section Description |
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| ducts, plenums, air outlets and inlets, and duct accessories. 230513 Common Motor Requirements for HVAC Equipment Universal default values for small and medium, ac motors. 230516 Expansion Fittings and Loops for HVAC Piping Expansion joints and spansion-compensation devices for HVAC Piping Sleeves and Sleeve seals for piping at floor and wall penetrations. 230517 Sleeves and Sleeve Seals for HVAC Piping Sleeves and sleeve seals for piping at ceiling, floor and wall penetrations. 230518 Escutcheons for HVAC Piping Escutcheons and floor plates for piping at ceiling, floor and wall penetrations. 230523 11 Globe Valves for HVAC Piping Globe valves common to multiple systems. 230523 12 Ball Valves for HVAC Piping Ball valves common to multiple systems. 230523 13 Butterffy Valves for HVAC Piping Butterffy valves common to multiple systems. 230523 14 Check Valves for HVAC Piping Gate valves common to multiple systems. 230523 15 Gate Valves for HVAC Piping Gate valves common to multiple systems. 230523 16 Pilug Valves for HVAC Piping Gate valves common to multiple systems. 230529 Hangers and Supports for HVAC Piping and Equipment Slands and supports. 230529 Hangers and Supports for HVAC Piping Pilug valves common to multiple systems. 230540 Coatings for HVAC Piping Electric ables for freeze protection. 230541 Vibration and Seismic Controls for HVAC Vibration isolation devices and seismic restraints. 230542 Vibration and Seismic Controls for HVAC Vibration isolation devices and seismic restraints. 230543 Testing, Adjusting, and Balancing for HVAC Vibration isolation devices and seismic restraints. 230544 Using Adjusting, and Balancing for HVAC Vibration isolation devices and seismic restraints. 230545 Insulation materials, jackets, and installation accessori for HVAC depiling insulation 1305467 Insulation materials, jackets, and installation accessori for HVAC depiling insulation insulation materials, jackets, and installation accessori of HVAC depiling insulation insulation materials, jackets, and in | DIVISION 2 | 3 - HEATING, VENTILATING, AND AIR CONDITIC | DNING (HVAC) |
| ### Tracing for HVAC Piping ### Tracing for HVAC Piping ### Piping ### Tracing for HVAC Piping ### Bult Valves common to multiple systems. ### 230523.13 ### Bult Valves for HVAC Piping ### Bult Valves common to multiple systems. ### 230523.15 ** Check Valves for HVAC Piping ### Check Valves common to multiple systems. ### 230523.15 ** Check Valves for HVAC Piping ### Check Valves common to multiple systems. ### 230523.16 ** Piug Valves for HVAC Piping ### Check Valves common to multiple systems. ### 230523.17 ** Piug Valves for HVAC Piping ### Check Valves common to multiple systems. ### 230523.16 ** Piug Valves for HVAC Piping ### Check Valves common to multiple systems. ### 230523.17 ** Piug Valves for HVAC Piping ### Piug Valves common to multiple systems. ### 230523.18 ** Hangers and Supports for HVAC Piping ### Piug Valves common to multiple systems. ### 230523.19 ** Hangers and Supports for HVAC Piping ### Piug Valves common to multiple systems. ### 230523.19 ** Hangers and Supports for HVAC Piping ### Piug Valves common to multiple systems. ### 230524 ** Coatings for HVAC Piping ### Piug Valves for freeze protection. ### 230525 ### Piug Valves for HVAC Piping ### Piug Valves f | 230130.52 | Existing HVAC Air Distribution System Cleaning | ducts, plenums, air outlets and inlets, and duct |
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| instruments and control devices that connect to direct digital control systems. 230923.17 Level Instruments Liquid level switches, sensors, and transmitters that connect to direct digital control systems. Leak Detection Instruments Leak detection switches (point type) and leak detector switches (cable type) that connect to direct digital control systems. 230923.19 Moisture Instruments Humidity and moisture sensors and transmitters that | 230923.14 | Flow Instruments | transmitters, and water meters that connect to direct |
| connect to direct digital control systems. 230923.18 Leak Detection Instruments Leak detection switches (point type) and leak detector switches (cable type) that connect to direct digital control systems. 230923.19 Moisture Instruments Humidity and moisture sensors and transmitters that | 230923.16 | Gas Instruments | instruments and control devices that connect to direct |
| switches (cable type) that connect to direct digital control systems. 230923.19 Moisture Instruments Humidity and moisture sensors and transmitters that | 230923.17 | Level Instruments | |
| | 230923.18 | Leak Detection Instruments | switches (cable type) that connect to direct digital |
| | 230923.19 | Moisture Instruments | |





| Section No. | Section Title | Section Description |
|----------------|---|---|
| 230923.21 | Motion Instruments | PIR, ultrasonic, and dual-technology type motion detection instruments that connect to direct digital control systems. |
| 230923.22 | Position Instruments | Limit switches that connect to direct digital control systems. |
| 230923.23 | Pressure Instruments | Air and liquid pressure sensors, switches, and transmitters that connect to direct digital control systems. |
| 230923.24 | Speed Instruments | Speed switches that connect to direct digital control systems. |
| 230923.27 | Temperature Instruments | Air, liquid, and steam temperature sensors, switches, transmitters and thermotats that connect to direct digital control systems. |
| 230923.33 | Vibration Instruments | Vibration switches that connect to direct digital control systems. |
| 230923.43 | Weather Stations | Weather stations that connect to direct digital control systems. |
| 230993.11 | Sequence of Operations for HVAC DDC | Direct digital control sequences for HVAC systems. |
| 231113 | Facility Fuel-Oil Piping | Fuel-oil piping, valves, specialties; leak-detection and monitoring systems for No. 2 fuel oil. |
| 231123 | Facility Natural-Gas Piping | Natural gas piping and specialties. |
| 231126 | Facility Liquefied-Petroleum Gas Piping | LP gas piping, specialties, and storage equipment. |
| 231213 | Facility Fuel-Oil Pumps | Simplex, duplex, and triplex transfer pumps; submersible storage tank pumps; and fuel-oil maintenance systems. |
| 231313 | Facility Underground Fuel-Oil Storage Tanks | Steel and FRP UST; accessories; liquid-level gage system; and leak-detection systems. |
| 231323 | Facility Aboveground Fuel-Oil Storage Tanks | Vertical, horizontal, containment-dike, insulated, and concrete vaulted steel AST. |
| 232113 | Hydronic Piping | Pipes, tubes, and fittings for heating and cooling water piping. |
| U 232113.13 | Underground Hydronic Piping | Underground piping outside the building. |
| 232113.33 | Ground-Loop Heat-Pump Piping | Horizontal and vertical, direct-buried, ground-loop piping. |
| 232116 | Hydronic Piping Specialties | Specialties and special-duty valves for heating and cooling water piping. |
| U 232123 | Hydronic Pumps | Base mounted and in-line; close coupled and separately coupled. |
| 232213 | Steam and Condensate Heating Piping | Pipes, tubes, and fittings for LP and HP steam piping. |
| 232216 | Steam and Condensate Heating Piping Specialties | Specialties and special-duty valves for LP and HP steam piping. |
| 232223 | Steam Condensate Pumps | Electric driven and pressure powered; single and duplex pumps with receivers. |
| U 232300 | Refrigerant Piping | Piping, specialties, and refrigerant. |
| 232500 | HVAC Water Treatment | Auto and manual systems for hydronic systems and steam feedwater systems. |
| 232513 | Water Treatment for Closed-Loop Hydronic Systems | Auto and manual systems for closed-loop hydronic systems. |
| 232516 | Water Treatment for Open-Loop Hydronic Systems | Auto and manual systems for open-loop hydronic systems. |
| 232519 | Water Treatment for Steam System Feedwater | Auto and manual systems for steam feedwater systems. |
| 232523 | Water Treatment for Humidification Steam System Feedwater | Automatic systems for humidification steam feedwater systems. |
| 232533 | HVAC Makeup-Water Filtration Equipment | Water filtration systems for HVAC makeup water systems. |
| 233113 | Metal Ducts | Rectangular and round, single- and double-wall ducts, including hangers and supports. |





| Section No. | Section Title | Section Description |
|----------------|---|---|
| 233116 | Nonmetal Ducts | Fibrous-glass, PVC, and FRP ducts, hangers, and supports. Does not include fabric. |
| U 233300 | Air Duct Accessories | Volume dampers, fire and smoke dampers, vanes, duct silencers, and hardware. |
| 233346 | Flexible Ducts | Non-insulated and insulated flexible ducts and flexible duct connectors. |
| 233413 | Axial HVAC Fans | Tubeaxial and vaneaxial fans. |
| 233416 | Centrifugal HVAC Fans | BI & FC indoor type; tubular and in-line units. |
| 233423 | HVAC Power Ventilators | Roof, wall, and ceiling-mounting ventilators. |
| 233433.13 | Commercial Air Curtains | Commercial air curtain fans over entranceways, with and without heating. |
| 233433.16 | Industrial Air Curtains | Industrial air curtain fans over entranceways, with and without heating. |
| U 233439 | High-Volume, Low-Speed Fans | Large diameter, high-volume, low-speed ceiling fans. |
| 233533 | Listed Kitchen Ventilation System Exhaust Ducts | Listed grease ducts. |
| 233600 | Air Terminal Units | Single-duct, dual-duct, fan-powered, induction, and diffuser types. |
| 233713.13 | Air Diffusers | Round, rectangular, perforated, and linear diffusers. |
| 233713.23 | Registers and Grilles | Fixed and adjustable registers and grilles. |
| 233713.43 | Security Registers and Grilles | Security registers and grilles. |
| 233716 | Fabric Air-Distribution Devices | Continuous tubular fabric air diffusers, connectors, and accessories. |
| 233723 | HVAC Gravity Ventilators | Unpowered ventilators and louver penthouses. |
| 233813 | Commercial-Kitchen Hoods | Type I and Type II, Standard and Listed hoods. |
| 234100 | Particulate Air Filtration | Disposable, extended surface, and roll types. |
| 234133 | High-Efficiency Particulate Air Filtration | High-efficiency particulate air filters, ultralow- penetration air (ULPA) filters, filter frames, and filter gages. |
| 234200 | Gas-Phase Air Filtration | Gas adsorbent and rechargeable media, trays and housings, frames, and filter gages. |
| 234300 | Electronic Air Cleaners | Electronic air cleaners, access housings, service frames, and filter gages. |
| 235113.11 | Draft Control Fans | Induced-draft fans. |
| 235113.16 | Vent Dampers | Barometric dampers. |
| 235116 | Fabricated Breechings and Accessories | Refractory-lined breechings and field-fabricated breechings. |
| 235123 | Gas Vents | Listed double-wall vents. |
| | Insulated Sectional Chimneys | Double-wall and refractory-lined chimneys; fabricated chimneys. |
| 235213 | Electric Boilers | HW and steam; HP and LP. |
| 235216 | Condensing Boilers | Packaged condensing boilers for small applications. |
| 235223 | Cast-Iron Boilers | HW and steam; gas and oil fired. |
| 235233 | Water-Tube Boilers | HW and steam; gas and oil fired. |
| 235239 | Fire-Tube Boilers | HW and steam; gas and oil fired. |
| 235313 | Boiler Feedwater Pumps | Condensate and vacuum pumps and receivers. |
| 235316 | Deaerators | Spray, packed column, and package tray. |
| 235413 | Electric-Resistance Furnaces | Electric furnaces. |
| U 235416.13 | Gas-Fired Furnaces | Gas-fired furnaces. |
| 235416.16 | Oil-Fired Furnaces | Oil-fired furnaces. |
| 235513.16 | Gas-Fired Duct Heaters | Natural gas and propane, duct-mounted units. |
| 235523.13 | Low-Intensity, Gas-Fired, Radiant Heaters | Low intensity, gas-fired, indoor and outdoor radiant heaters. |
| 235523.16 | High-Intensity, Gas-Fired, Radiant Heaters | High-intensity, gas-fired, indoor and outdoor radiant heaters and patio heaters. |





| Section No. | Section Title | Section Description |
|----------------|---|--|
| 235533.13 | Oil-Fired Unit Heaters | Fuel-oil unit heaters with propeller and centrifugal fans. |
| 235533.16 | Gas-Fired Unit Heaters | Natural gas and propane unit heaters with propeller and centrifugal fans. |
| 235613.13 | Heating, Flat-Plate, Solar Collectors | Liquid-type, medium-temperature, glazed solar panels. |
| 235613.19 | Heating, Solar, Vacuum-Tube Collectors | Liquid-type, vacuum-tube solar collectors, accessories, and mountings. |
| 235700 | Heat Exchangers for HVAC | Steam to water and water to water; shell-and-tube and flat-plate types. |
| 236200 | Packaged Compressor and Condenser Units | Air and water cooled. |
| 236313 | Air-Cooled Refrigerant Condensers | Remote forced-air, condenser, and fan units. |
| 236333 | Evaporative Refrigerant Condensers | Induced- and forced-draft evaporative refrigerant condensers. |
| 236413.13 | Direct-Fired Absorption Water Chillers | Natural-gas, propane, and oil fired; water cooled; two stages; and a brush-cleaning system. |
| 236413.16 | Indirect-Fired Absorption Water Chillers | Steam and hot-water generated; one and two stage. |
| 236416 | Centrifugal Water Chillers | Hermetic and open; direct and gear drives; water and air cooled. |
| 236423.13 | Air-Cooled, Scroll Water Chillers | Packaged, air-cooled, scroll water chillers. |
| 236423.16 | Water-Cooled, Scroll Water Chillers | Packaged, water-cooled, scroll water chillers. |
| 236426.13 | Air-Cooled, Rotary-Screw Water Chillers | Packaged, air-cooled indoor and outdoor rotary-screw water chillers. |
| 236426.16 | Water-Cooled, Rotary-Screw Water Chillers | Water-cooled, single- and multiple-compressor units. |
| 236513.13 | Open-Circuit, Forced-Draft Cooling Towers | Factory-assembled, open-circuit, forced-draft, towers. |
| 236513.16 | Closed-Circuit, Forced-Draft Cooling Towers | Factory-assembled, closed-circuit, forced-draft, towers. |
| 236514.13 | Open-Circuit, Induced-Draft, Counterflow Cooling Towers | Factory-assembled, open-circuit, induced-draft, counterflow towers. |
| 236514.14 | Open-Circuit, Induced-Draft, Crossflow Cooling Towers | Factory-assembled, open-circuit, induced-draft, crossflow towers. |
| 236514.16 | Closed-Circuit, Induced-Draft, Counterflow Cooling Towers | Factory-assembled, closed-circuit, induced-draft, counterflow towers. |
| 236514.17 | Closed-Circuit, Induced-Draft, Combined-Flow Cooling Towers | Factory-assembled, closed-circuit, induced-draft, combined-flow towers. |
| 237213 | Heat Wheel Air-To-Air Energy Recovery Units | Rotary heat wheel, sensible-only or total heat transfer heat exchangers. |
| 237216 | Heat Pipe Air-To-Air Energy Recovery Units | Heat pipe, sensible heat, heat exchangers utilizing passive-refrigerant heat transfer. |
| 237219 | Fixed Plate Air-To-Air Energy Recovery Units | Fixed plate, sensible and total heat transfer heat exchangers. |
| 237223.13 | Packaged Indoor Heat Wheel Energy Recovery Units | Heat wheel heat exchangers in packaged, indoor, energy-recovery units. |
| 237223.19 | Packaged Indoor Fixed Plate Energy Recovery Units | Sensible and total heat, fixed-plate heat exchangers in packaged, indoor, energy-recovery units. |
| 237223.23 | Packaged, Outdoor, Heat Wheel Energy Recovery Units | Heat wheel in outdoor packaged, sensible heat and total heat, energy-recovery units. |
| 237223.29 | Packaged, Outdoor, Fixed Plate Energy Recovery Units | Fixed-plate heat exchanger in outdoor packaged, sensible and total heat, energy-recovery units. |
| 237313.13 | Indoor, Basic Air-Handling Units | Units consisting of fans, coils, dampers, filters, control devices, and accessories. |
| 237313.16 | Indoor, Semi-Custom Air-Handling Units | Units consisting of fans, coils, dampers, filters, control devices, and accessories. |
| N 237313.19 | Indoor, Custom Air-Handling Units | Indoor custom units consisting of fans, coils, dampers, filters, control devices, and accessories. |
| 237333.16 | Indoor, Indirect, Gas-Fired Heating and Ventilating Units | Indirect, gas-fired H&V units mounted inside the building. |
| 237339 | Indoor, Direct-Fired Heating and Ventilating Units | Indoor, direct gas-fired H&V units. |





| Section No. | Section Title | Section Description |
|----------------|---|---|
| | Outdoor, Semi-Custom Air-Handling Units | Units consisting of fans, coils, dampers, filters, control devices, and accessories. |
| N 237343.19 | Outdoor, Custom Air-Handling Units | Outdoor custome units consisting of fans, coils, dampers, filters, control devices, and accessories. |
| 237416.11 | Packaged, Small-Capacity, Rooftop Air-Conditioning Units | Packaged, air-cooled, rooftop HVAC, 6 tons and smaller. |
| 237416.13 | Packaged, Large-Capacity, Rooftop Air-Conditioning Units | Packaged, air-cooled, rooftop HVAC 7.5 tons and greater. |
| 237423.13 | Packaged, Direct-Fired, Outdoor, Heating-Only Makeup-Air Units | Outdoor, direct gas-fired H&V units. |
| 237423.16 | Packaged, Indirect-Fired, Outdoor, Heating-Only Makeup-Air Units | Outdoor, indirect gas-fired H&V units. |
| 237433 | Dedicated Outdoor-Air Units | Units capable of 100 percent outdoor air with heating and cooling. |
| 238113.11 | Packaged Terminal Air-Conditioners, Through-Wall Units | Through-the-wall; cooling only; heat pump; cooling plus hot-water heating, electric heating, and gas-fired heating. |
| 238113.12 | Packaged Terminal Air-Conditioners, Freestanding Units | Freestanding or through-the-wall; cooling only; heat pump; cooling plus hot-water heating, electric heating, and gas-fired heating. |
| 238113.13 | Packaged Terminal Air-Conditioners, Outdoor, Wall-Mounted Units | Outdoor, wall-mounted; cooling only; heat pump; cooling plus hot-water heating, electric heating, and gasfired heating. |
| 238119 | Self-Contained Air-Conditioners | Packaged cooling, heating, filters, and controls; cabinet suitable for exposed installations. |
| 238123.11 | Small Capacity (6 Tons (21 kW) and Smaller), Computer-Room Air-Conditioners, Floor-Mounted Units | Floor-mounted water and air cooled, air conditioning systems for data centers. |
| 238123.12 | Large Capacity (7 Tons (25 kW) and Larger), Computer-Room Air-Conditioners, Floor-Mounted Units | Floor-mounted water and air cooled, air conditioning systems for data centers. |
| 238123.13 | Computer-Room Air-Conditioners, Ceiling-Mounted Units | Ceiling-mounted water and air cooled, air conditioning systems for data centers. |
| 238123.14 | Computer-Room Air-Conditioners, Console Units | Console water and air cooled, air conditioning systems for data centers. |
| 238123.18 | Computer-Room, Rack-Cooling Equipment | Water and air cooled, pumped-refrigerant, air conditioning systems for data centers. |
| 238126 | Split-System Air-Conditioners | Air-distribution equipment separate from refrigeration equipment; cabinet suitable for exposed installations. |
| U 238129 | Variable-Refrigerant-Flow HVAC Systems | Variable-refrigerant-flow HVAC systems, components, and operations, including delegated design. |
| 238146 | Water-Source Unitary Heat Pumps | Concealed horizontal and vertical units. |
| 238146.13 | Water-To-Air Heat Pumps | Concealed horizontal and vertical units; vertical-stack; and exposed-console units. |
| 238213 | Valance Heating and Cooling Units | Electric and hot water radiant heaters and heating and cooling panels. |
| 238214 | Chilled Beams | Passive and active units. |
| 238216.11 | Hydronic Air Coils | Hydronic coils not integral to AHUs. |
| 238216.12 | Steam Air Coils | Steam coils not integral to AHUs. |
| 238216.13 | Refrigerant Air Coils | Refrigerant coils not integral to AHUs. |
| 238216.14 | Electric-Resistance Air Coils | Electric-resistance coils not integral to AHUs. |
| 238219 | Fan Coil Units | Hot water, steam, and electric heating; chilled or DX cooling. |
| 238223 | Unit Ventilators | Hot water, steam, and electric heating; chilled or DX cooling. |
| 238229 | Radiators | Flat-pipe steel radiators for hot-water, steam, and electric heating systems. |
| 238233 | Convectors | Convectors for hot-water, steam, and electric heating systems. |
| 238236 | Finned-Tube Radiation Heaters | HW, steam, and electric baseboard and finned-tube radiation heaters. |





| Section No. | Section Title | Section Description |
|----------------|--|---|
| | Cabinet Unit Heaters | Cabinet unit heaters with hot-water, steam, and electric-resistance coils. |
| 238239.16 | Propeller Unit Heaters | Propeller unit heaters with hot-water, steam, and electric-resistance coils. |
| 238239.19 | Wall and Ceiling Unit Heaters | Wall and ceiling electric unit heaters. |
| 238313 | Radiant-Heating Electric Cables | Electric cables for ceilings and floors, snow and ice melting, and freezer-floor frost prevention. |
| 238316 | Radiant-Heating Hydronic Piping | Embedded pipes, tubes, manifolds, fittings, piping specialties, and controls. |
| 238323 | Radiant-Heating Electric Panels | Factory-fabricated panels. |
| 238413.16 | Wetted-Element Humidifiers | Water-pressure atomizing humidifiers. |
| 238413.19 | Atomizing Humidifiers | Water-pressure or compress-air types. |
| 238413.23 | Direct-Steam-Injection Humidifiers | Externally-supplied steam. |
| 238413.29 | Self-Contained Steam Humidifiers | Electric resistance, electrode cylinder, and gas-fired steam generator humidifiers. |
| 238413.36 | Heat Exchanger Humidifiers | Steam-to-steam humidifiers. |
| 238416.13 | Outdoor, Mechanical Dehumidification Units | Outdoor, refrigerant-type mechanical dehumidification equipment. |
| 238416.16 | Indoor, Mechanical Dehumidification Units | Indoor, refrigerant-type mechanical dehumidification equipment. |
| | 26 - ELECTRICAL | Full and limited consider electric driver controllers, and |
| 262933 | Controllers for Fire-Pump Drivers | Full- and limited-service, electric-driver controllers; and diesel-driver controllers. |
| DIVISION 2 | 8 - ELECTRONIC SAFETY AND SECURITY | |
| 284400 | Refrigerant Detection and Alarm | Monitors, alarms, breathing apparatus, and ventilation equipment interlocks. |
| 284621.13 | Conventional Fire-Alarm Systems | Small systems for buildings relying on zoned fire-alarm concept. |
| DIVISION 3 | 1 - EARTHWORK | |
| 311000 | Site Clearing | Clearing, grubbing, vegetation protection, stripping and stockpiling topsoil and rock, and disconnecting utilities. |
| 312000 | Earth Moving | Excavating, filling and backfilling, compacting, and grading. |
| 312319 | Dewatering | Temporary construction dewatering requirements for ground-water control. |
| DIVISION 3 | 2 - EXTERIOR IMPROVEMENTS | |
| 321216 | Asphalt Paving | Paving, overlays, surface treatments, asphalt curbs, asphalt traffic-calming devices, cold milling, and hot-mix patching. |
| 321223 | Imprinted Asphalt | Embossing patterns in new or existing asphalt pavement. |
| 321313 | Concrete Paving | Concrete curbs and gutters, walks, driveways, parking lots, and miscellaneous paving. |
| 321713 | Parking Bumpers | Wheel stops applied to asphalt or concrete pavement. |
| 321716 | Manufactured Traffic-Calming Devices | Preformed rubber or plastic traffic-calming devices applied to asphalt or concrete pavement. |
| 321723 | Pavement Markings | Painted markings applied to asphalt or concrete pavement. |
| 323113 | Chain Link Fences and Gates | Standard chain-link fencing systems with swing or horizontal-slide gates and gate operators. |





| Section No. | Section Title | Section Description |
|----------------|--|---|
| 328400 | Planting Irrigation | Heads, pipes, and controls. |
| | 33 - UTILITIES | |
| 330500 | Common Work Results for Utilities | Basic piping materials and methods. |
| 331113 | Potable Water Supply Wells | Drilled and driven wells and well pumps. |
| 334200 | Stormwater Conveyance | Gravity and forced storm piping, underground structures, and specialties. |
| 334600 | Subdrainage | Drainage for foundations, underslabs, plaza decks, retaining walls, and landscaped areas. |
| U 336313 | Underground Steam and Condensate Distribution Piping | Underground piping serving one or more buildings. |

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