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SECTION 224713 - DRINKING FOUNTAINS

1. GENERAL
	* + 1. SUMMARY
				1. Section Includes:

Supports.

* + - 1. ACTION SUBMITTALS
				1. Product Data: For each type of drinking fountain and bottle filling station.

Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.

Include operating characteristics, and furnished specialties and accessories.

* + - * 1. Shop Drawings:

Include diagrams for power wiring.

* + - 1. CLOSEOUT SUBMITTALS
				1. Maintenance Data: For [**drinking fountains**] [**and**] [**bottle filling stations**] to include in maintenance manuals.
			2. MAINTENANCE MATERIAL SUBMITTALS
				1. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

Filter Cartridges: Equal to <**Insert number**> percent of quantity installed for each type and size indicated, but no fewer than <**Insert number**> of each.

1. PRODUCTS
	* + 1. PERFORMANCE REQUIREMENTS
				1. Standards:

The U.S. Safe Drinking Water Act (SDWA) has required national compliance with less than or equal to 0.25 percent weighted average lead content at wetted surfaces for pipe, fittings, and devices intended to convey or dispense water for human consumption since January 2014. The IPC and UPC have the same requirements. Items in compliance with NSF 61 and NSF 372 also comply with this requirement. Some manufacturers choose to meet this requirement through independent testing and have "Certified Lead Free" products, which may or may not have NSF 61 or NSF 372 certifications.

Drinking fountains and bottle filling stations intended to convey or dispense water for human consumption are to comply with the U.S. Safe Drinking Water Act (SDWA), requirements of the Authority Having Jurisdiction (AHJ), and with NSF 61 or NSF 372, or be certified in compliance with NSF 61 or NSF 372 by an ANSI-accredited third-party certification body, that the weighted average lead content at wetted surfaces is less than or equal to 0.25 percent.

Retain first subparagraph below if stainless steel drinking fountains or bottle filling stations are retained.

[**Comply with ASME A112.19.3/CSA B45.4 for stainless steel drinking fountains and bottle filling stations.**]

Retain first subparagraph below if vitreous china drinking fountains are retained.

[**Comply with ASME A112.19.2/CSA B45.1 for vitreous china drinking fountains.**]

Comply with NSF 42 and NSF 53 for water filters for drinking fountains and bottle filling stations.

Comply with ICC A117.1 for accessible drinking fountains and bottle filling stations.

* + - 1. SUPPORTS
				1. Drinking Fountain Carrier:

Retain "Basis-of-Design Product" Subparagraph and list of manufacturers below to identify a specific product or a comparable product from manufacturers listed.

Basis-of-Design Product: Subject to compliance with requirements, provide **Zurn Industries, LLC; Z1225** or comparable product by one of the following:

<**Insert manufacturer's name**>

Standard: ASME A112.6.1M.

1. EXECUTION
	* + 1. EXAMINATION
				1. Examine roughing-in for water-supply and sanitary drainage and vent piping systems to verify actual locations of piping connections before fixture installation.
				2. Examine walls and floors for suitable conditions where fixtures will be installed.
				3. Proceed with installation only after unsatisfactory conditions have been corrected.
			2. INSTALLATION
				1. Install fixtures level and plumb according to roughing-in drawings. For fixtures indicated for children, install at height required by authorities having jurisdiction.
				2. Set pedestal drinking fountains and bottle filling stations on flat surface in accordance with manufacturer's written installation instructions.
				3. Install recessed, drinking fountains and bottle filling stations secured to wood blocking in wall construction.
				4. Install off-the-floor carrier supports, affixed to building substrate, for wall-mounted fixtures.
				5. Install water-supply piping with shutoff valve on supply to each fixture to be connected to domestic-water distribution piping. Use ball[ **or gate**] valve. Install valves in locations where they can be easily reached for operation. Valves are specified in Section 220523 "General-Duty Valves for Plumbing Piping."
				6. Install trap and waste piping on drain outlet of each fixture to be connected to sanitary drainage system.
				7. Install wall flanges or escutcheons at piping wall penetrations in exposed, finished locations. Use deep-pattern escutcheons where required to conceal protruding fittings. Comply with escutcheon requirements specified in Section 220500 "Common Work Results for Plumbing."
				8. Seal joints between fixtures and walls using sanitary-type, one-part, mildew-resistant, silicone sealant. Match sealant color to fixture color. Comply with sealant requirements specified in Section 079200 "Joint Sealants."
			3. PIPING CONNECTIONS

Coordinate piping installations and specialty arrangements with Drawings and with requirements specified in piping systems. If Drawings are explicit enough, these requirements may be reduced or omitted.

* + - * 1. Connect fixtures with water supplies, stops, and risers, and with traps, soil, waste, and vent piping. Use size fittings required to match fixtures.
				2. Comply with water piping requirements specified in Section 221116 "Domestic Water Piping."
				3. Install ball[ **or gate**] shutoff valve on water supply to each fixture.[ **Install valve upstream from filter for drinking fountain.**] Comply with valve requirements specified in Section 220523 "General-Duty Valves for Plumbing Piping."
				4. Comply with soil and waste piping requirements specified in Section 221316 "Sanitary Waste and Vent Piping."
			1. ELECTRICAL CONNECTIONS

Retain this article if sensor/hands-free drinking fountains or bottle filling stations are required. Article is not required if sensor/hands-free feature is battery powered.

* + - * 1. Ground equipment according to Section 260526 "Grounding and Bonding for Electrical Systems."
				2. Install electrical devices furnished by manufacturer, but not factory mounted, according to NFPA 70 and NECA 1.
				3. Install nameplate for each electrical connection, indicating electrical equipment designation and circuit number feeding connection.

Retain one of two subparagraphs below. First subparagraph cross-references Section 260553 "Identification for Electrical Systems" and should be retained for consistent electrical identification. Second subparagraph is an abbreviated version of the product specified in Section 260553 "Identification for Electrical Systems."

Nameplates to be laminated acrylic or melamine plastic signs, as specified in Section 260553 "Identification for Electrical Systems."

Nameplates to be laminated acrylic or melamine plastic signs with a black background and engraved white letters at least 1/2 inch high.

* + - 1. ADJUSTING
				1. Adjust fixture flow regulators for proper flow and stream height.
			2. CLEANING
				1. After installing fixtures, inspect unit. Remove paint splatters and other spots, dirt, and debris. Repair damaged finish to match original finish.
				2. Clean fixtures, on completion of installation, according to manufacturer's written instructions.
				3. Provide protective covering for installed fixtures.
				4. Do not allow use of fixtures for temporary facilities unless approved in writing by Owner.

END OF SECTION 224713