Sioux Chief Manufacturing prepared the following guidelines to aid design professionals. Incorporate these guidelines into the appropriate project specification Section. Sioux Chief Manufacturing is not liable in any way for revisions or for the use of this Section by any end user. A qualified design professional should review and edit the document to suit project requirements.

Notes are included to assist the design professional in editing the specifications to suit project requirements and are not intended to be included in the final specification. These notes appear in blue text.

For more information or assistance, contact Sioux Chief Manufacturing.

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# SECTION 224713 - DRINKING FOUNTAINS

Revise this Section by deleting and inserting text to meet Project-specific requirements.

Verify that Section titles referenced in this Section are correct for this Project's Specifications; Section titles may have changed.

# GENERAL

## RELATED DOCUMENTS

Retain or delete this article in all Sections of Project Manual.

### Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

## SUMMARY

### Section includes:

#### Drinking fountains.

#### Bottle fillers.

## ACTION SUBMITTALS

### Product Data: For each type of drinking fountain.

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

#### Include operating characteristics, and furnished specialties and accessories.

### Sustainable Design Submittals:

"Product Data" Subparagraph below applies to LEED (including v4), IgCC, ASHRAE 189.1, and Green Globes for fixtures and equipment that consume water.

#### Product Data: For water consumption.

## CLOSEOUT SUBMITTALS

### Maintenance Data: For drinking fountains to include in maintenance manuals.

## MAINTENANCE MATERIAL SUBMITTALS

### 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.

## WARRANTY

When warranties are required, verify with Owner's counsel that special warranties stated in this article are not less than remedies available to Owner under prevailing local laws. Coordinate with Section 016000 "Product Requirements."

### Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of units that fail in materials or workmanship within specified warranty period.

Verify available warranties and warranty periods for units and components with manufacturers listed in Part 2.

#### Warranty Period:

##### For Drinking Fountains: [**One**] [**Five**] <**Insert number**> year(s) from date of Substantial Completion.

###### For Bottle Fillers: [**One**] [**Three**] [**Five**] <**Insert number**> year(s) from date of Substantial Completion.

# PRODUCTS

For definitions of terms and requirements for Contractor's product selection, see Section 016000 "Product Requirements."

## DRINKING FOUNTAINS

Copy "Drinking Fountains" Paragraph below and re-edit for each type of drinking fountain required.

Insert number to complete drawing designation. Use these designations on Drawings to identify each drinking fountain.

### Drinking Fountains; Outdoor <Insert drawing designation>: [Concrete] [Concrete freeze resistant] [Concrete wall mount] [Painted steel] [Painted steel freeze resistant] [Painted steel wall mount] [Painted aluminum] [Galvanized steel] [Painted stainless steel] [Painted stainless steel freeze resistant].

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 <Insert Specified Manufacture>; <Insert product name or designation>:

##### Substitutions: [Under provisions of Division 01.] [Not permitted.]

Copy "Drinking Fountains; Wall Mount" Paragraph below and re-edit for each type of antifreeze, pedestal drinking fountain required.

Insert number to complete drawing designation. Use these designations on Drawings to identify each drinking fountain.

### Drinking Fountains; Wall Mount <**Insert drawing designation**>: Stainless steel [**freeze resistant**] [**refrigerated**].

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 <Insert Specified Manufacture>; <Insert product name or designation>:

##### Substitutions: [Under provisions of Division 01.] [Not permitted.]

Copy "Drinking Fountains; Wall Mount" Paragraph below and re-edit for each type of wall-mounted drinking fountain required.

Insert number to complete drawing designation. Use these designations on Drawings to identify each drinking fountain.

### Drinking Fountains; Wall Mount <Insert drawing designation>: [Enameled Iron] [Painted Aluminum].

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 <Insert Specified Manufacture>; <Insert product name or designation>:

##### Substitutions: [Under provisions of Division 01.] [Not permitted.]

Copy "Bottle-Filling Station" Paragraph below and re-edit for each type of bottle-filling station required.

Insert number to complete drawing designation. Use these designations on Drawings to identify each bottle-filling station.

### Bottle-Filling Station <Insert drawing designation>: [Surface-mounted] [Semi-recessed] [, wheelchair accessible].

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 <Insert Specified Manufacture>; <Insert product name or designation>:

##### Substitutions: [Under provisions of Division 01.] [Not permitted.]

### Bottle-Filling Station; Indoor/Outdoor Wall Mounted <**Insert drawing designation**>: [**Freeze resistant.**]

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 <Insert Specified Manufacture>; <Insert product name or designation>:

##### Substitutions: [Under provisions of Division 01.] [Not permitted.]

#### Receptor(s):

##### Drain: Top-down access type with NPS 1-1/4 (DN 32) tailpiece.

#### Supply Piping: NPS 3/8 (DN 10).

#### Drain Piping: NPS 1-1/2 (DN 40).

#### Drinking Fountain Mounting Height: [Standard] [Disabled accessible according to ICC A117.1] [Child-height for children's use].

## SUPPORTS

### Water Cooler Carrier:

Retain "Manufacturers" Subparagraph and list of manufacturers below to require products from manufacturers listed or a comparable product from other manufacturers.

#### Basis-of-Design Product: Subject to compliance with requirements, provide Sioux Chief Manufacturing [837-7D Series]:

##### Substitutions: [Under provisions of Division 01.] [Not permitted.]

#### Standard: ASME A112.6.1M.

#### Type: Type I, Double Plate with coated rectangular steel uprights, welded feet and mounting hardware.

### Bi-Level Water Cooler Carrier:

Retain "Manufacturers" Subparagraph and list of manufacturers below to require products from manufacturers listed or a comparable product from other manufacturers.

#### Basis-of-Design Product: Subject to compliance with requirements, provide Sioux Chief Manufacturing [837-7D2]:

##### Substitutions: [Under provisions of Division 01.] [Not permitted.]

#### Standard: ASME A112.6.1M.

#### Type: Type I, Double Plate, Side by Side carrier with coated rectangular steel uprights, welded feet and mounting hardware.

## SUPPLY FITTINGS

### Quarter-Turn Angle Supply Stop: <Insert drawing designation>:

#### Basis-of-Design Product: Subject to compliance with requirements, provide Sioux Chief Manufacturing [130-G Series with escutcheon]:

##### Substitutions: [Under provisions of Division 01.] [Not permitted.]

#### Quarter-Turn Angle Supply Stop Description:

##### Standard: ASME A112.18.1/CSA B125.1. Comply with NSF/ANSI 61 Annex G, "Drinking Water System Components - Health Effects," for supply-fitting materials that will be in contact with potable water.

##### Finish: Chrome.

##### Inlet Connection: [3/8 inch] [5/8 inch] [1/2 inch] with Shallow, chrome-plated steel escutcheon. <Refer to SECTION 221116 - DOMESTIC WATER PIPING for connection type>.

##### Outlet Connection: [1/4 inch] [3/8 inch] compression.

### Quarter-Turn Straight Supply Stop: <Insert drawing designation>:

#### Basis-of-Design Product: Subject to compliance with requirements, provide Sioux Chief Manufacturing [129-G Series with escutcheon]:

##### Substitutions: [Under provisions of Division 01.] [Not permitted.]

#### Quarter-Turn Straight Supply Stop Description:

##### Standard: ASME A112.18.1/CSA B125.1. Comply with NSF/ANSI 61 Annex G, "Drinking Water System Components - Health Effects," for supply-fitting materials that will be in contact with potable water.

##### Finish: Chrome.

##### Inlet Connection: [3/8 inch] [5/8 inch] [1/2 inch] with Shallow, chrome-plated steel escutcheon. <Refer to SECTION 221116 - DOMESTIC WATER PIPING for connection type>.

##### Outlet Connection: [1/4 inch] [3/8 inch] compression.

### Heavy Duty, Quarter-Turn Angle Supply Stop: <Insert drawing designation>:

#### Basis-of-Design Product: Subject to compliance with requirements, provide Sioux Chief Manufacturing [132-G04 Series with escutcheon]:

##### Substitutions: [Under provisions of Division 01.] [Not permitted.]

#### Heavy Duty, Quarter-Turn Angle Supply Stop Description:

##### Standard: ASME A112.18.1/CSA B125.1. Comply with NSF/ANSI 61 Annex G, "Drinking Water System Components - Health Effects," for supply-fitting materials that will be in contact with potable water.

##### Maximum pressure: 125psi / 8.6 bar

##### Maximum temperature: 160°F / 71.1°C.

##### Finish: Chrome.

##### Operation: [Loose Handle] [5-inch extension with escutcheon].

##### Inlet Connection: [3/8 inch] [5/8 inch] [1/2 inch] with Shallow, chrome-plated steel escutcheon. <Refer to SECTION 221116 - DOMESTIC WATER PIPING for connection type>.

##### Outlet Connection: [1/4 inch] [3/8 inch] [5/8 inch] compression [1/2-inch MIP].

### Heavy Duty, Quarter-Turn Straight Supply Stop: <Insert drawing designation>:

#### Basis-of-Design Product: Subject to compliance with requirements, provide Sioux Chief Manufacturing [131-G04 Series with escutcheon]:

##### Substitutions: [Under provisions of Division 01.] [Not permitted.]

#### Heavy Duty, Quarter-Turn Straight Supply Stop Description:

##### Standard: ASME A112.18.1/CSA B125.1. Comply with NSF/ANSI 61 Annex G, "Drinking Water System Components - Health Effects," for supply-fitting materials that will be in contact with potable water.

##### Maximum pressure: 125psi / 8.6 bar

##### Maximum temperature: 160°F / 71.1°C.

##### Finish: Chrome.

##### Operation: [5-inch extension with escutcheon] <Delete if not needed>.

##### Inlet Connection: [3/8 inch] [1/2 inch] with Shallow, chrome-plated steel escutcheon. <Refer to SECTION 221116 - DOMESTIC WATER PIPING for connection type>.

##### Outlet Connection: [1/4 inch] [3/8 inch] compression [1/2-inch MIP] [1/2-inch PEX F1807].

## RISER TUBES

### Riser Supply Tubes: <Insert drawing designation>:

#### Basis-of-Design Product: Subject to compliance with requirements, provide Sioux Chief Manufacturing [283-S Series] [285-S Series]:

##### Substitutions: [Under provisions of Division 01.] [Not permitted.]

#### Lavatory Riser Supply Tubes Description:

##### Standard: ASME A112.18.6.

##### Riser Material: [Chrome-plated, soft-copper flexible tube] [PEX].

##### Finish: Chrome-Plated.

##### Inlet and Outlet Connection: 3/8" O.D. tube with **[lav nose cone] [male compression] outlet.**

##### Riser Length**: 12-inch. <Specify Length>**

## WASTE FITTINGS

### Metal P-Trap: <Insert drawing designation>:

#### Basis-of-Design Product: Subject to compliance with requirements, provide Sioux Chief Manufacturing [240-04531C04 Series] [240-05531C04 Series] [240-05B531C04 Series]:

##### Substitutions: [Under provisions of Division 01.] [Not permitted.]

#### Lavatory P-Trap Description:

##### Standard: ASME A112.18.2/CSA B125.2

##### Type: P-Trap with shallow escutcheon, cleanout & brass nuts.

##### Gauge: 17ga.

##### Size: 1-1/4 inch.

### Polymer P-Trap: <Insert drawing designation>:

#### Basis-of-Design Product: Subject to compliance with requirements, provide Sioux Chief Manufacturing [230-0105101]:

##### Substitutions: [Under provisions of Division 01.] [Not permitted.]

#### Lavatory P-Trap Description:

##### Standard: ASTM F409-12.

##### Type: White, Polypropylene

##### Size: 1-1/4 inch.

# EXECUTION

## EXAMINATION

### Examine roughing-in for water-supply and sanitary drainage and vent piping systems to verify actual locations of piping connections before fixture installation.

### Examine walls and floors for suitable conditions where fixtures will be installed.

### Proceed with installation only after unsatisfactory conditions have been corrected.

## INSTALLATION

### Install fixtures level and plumb according to roughing-in drawings. For fixtures indicated for children, install at height required by authorities having jurisdiction.

### Set pedestal drinking fountains on floor/mounting slab using approved anchors.

### Install recessed drinking fountains secured to rigid framing in wall construction.

### Install off-the-floor carrier supports, affixed to building substrate, for wall-mounted fixtures.

### 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 220523.12 "Ball Valves for Plumbing Piping" and Section 220523.15 "Gate Valves for Plumbing Piping."

### Install trap and waste piping on drain outlet of each fixture to be connected to sanitary drainage system.

### Insulate all water supply lines subject to condensation.

### 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 220518 "Escutcheons for Plumbing Piping."

### 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."

## 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.

### Connect fixtures with water supplies, stops, and risers, and with traps, soil, waste, and vent piping. Use size fittings required to match fixtures.

### Comply with water piping requirements specified in Section 221116 "Domestic Water Piping."

### Install ball or gate shutoff valve on water supply to each fixture. Comply with valve requirements specified in Section 220523.12 "Ball Valves for Plumbing Piping" and Section 220523.15 "Gate Valves for Plumbing Piping."

### Comply with soil and waste piping requirements specified in Section 221316 "Sanitary Waste and Vent Piping."

## ADJUSTING

### Adjust fixture flow regulators for proper flow and stream height.

## CLEANING

### After installing fixtures, inspect unit. Remove paint splatters and other spots, dirt, and debris. Repair damaged finish to match original finish.

### Clean fixtures, on completion of installation, according to manufacturer's written instructions.

### Provide protective covering for installed fixtures.

### Do not allow use of fixtures for temporary facilities unless approved in writing by Owner.

# END OF SECTION 224713 - DRINKING FOUNTAINS