

SECTION 22 42 23 COMMERCIAL SHOWERS

PART 1 - GENERAL

1.1 STIPULATIONS

- A. The specifications sections "General Conditions to the Construction Contract", "Special Conditions" and "Division 01 - General Requirements" form a part of this Section by this reference thereto, and shall have the same force and effect as if printed herewith in full.

1.2 SUMMARY

- A. Section Includes:
 - 1. Shower heads

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for showers.
 - 2. Include rated capacities, operating characteristics, and furnished specialties and accessories.

1.4 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For shower valves to include in maintenance manuals.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

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

2.2 SHOWER HEADS

- A. Institutional, Vandal and Ligature Resistant Shower Head: Remote master thermostatic mixing valve assembly and individual shower control shut-off valve: (SH-#). Refer to the Plumbing Fixture Schedules on Drawings for additional information and specific fixture designations. The

fixture schedule identifies the basis of design, product descriptions, make, models, details, components and accessories.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. Acorn.
 - b. Bradley.
 - c. Willoughby.
 - d. Or equal as approved by the Professional.
2. Source Limitations: Obtain shower heads and shower valves from single source from single manufacturer.
3. Description: Fixed, institutional vandal and ligature resistant shower head.
4. Shower Master Mixing Valve Assembly and Control: Remote cabinet mounted valve assembly. Refer to Central Shower Mixing Valve in Section 221119 Water Piping Specialties and drawings for information.
5. Supply Connections: NPS 1/2.
6. Shower Head:
 - a. Standard: ASME A112.18.1/CSA B125.1.
 - b. Type: Fixed Institutional, vandal and ligature resistant with integral with mounting flange.
 - c. EPA WaterSense: Required.
 - d. Shower Head Maximum Flow Rate: 1.5 gpm.
 - e. Shower Head Material: Metallic with chrome-plated finish.
 - f. Spray Pattern: Fixed.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine rough-in of water-supply and sanitary drainage and vent piping systems to verify actual locations of piping connections before shower installation.
- B. Examine walls for suitable conditions where showers will be installed.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Assemble shower components according to manufacturers' written instructions.
- B. Install ball valves in water-supply piping to the shower if supply stops are specified with the shower valve. Comply with valve requirements specified in Section 220523.12 "Ball Valves for Plumbing Piping" Install valves in locations that are accessible for remote secure operation.
- C. Seal joints between showers and floors 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."

3.3 PIPING CONNECTIONS

- A. Connect fixtures with water supplies, stops, and risers, and with traps, soil, waste, and vent piping. Use size fittings required to match fixtures.
- B. Comply with water piping requirements specified in Section 221116 "Domestic Water Piping."

3.4 ADJUSTING

- A. Operate and adjust showers and controls. Replace damaged and malfunctioning showers, fittings, and controls.
- B. Adjust water pressure at shower valves to produce proper flow.

3.5 CLEANING AND PROTECTION

- A. After completing installation of shower heads, inspect and repair damaged finishes.
- B. Clean shower heads with manufacturers' recommended cleaning methods and materials.
- C. Do not allow use of shower for temporary facilities unless approved in writing by Client Agency.

END OF SECTION