

SECTION 22 42 00 - COMMERCIAL PLUMBING FIXTURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:

1. **KROGER DIRECT BUY PROGRAM:** Owner supplied/Contractor installed.
 - a. The Kroger Company will supply the following commercial plumbing fixtures complete with drain and faucet as indicated on Drawings:
 - 1) Break room sink.
 - b. Comply with requirements in Division 00 Section "General Conditions."
 2. Contractor supplied items: Contractor furnished/Contractor installed.
 - a. Other commercial plumbing fixtures not provided by Owner and as specified in Part 2.
 - b. Fasteners and other items not provided by Owner necessary for a complete installation.
 3. Contractor installed items:
 - a. All Commercial plumbing fixtures and accessories.
 - b. Provide installation and final connections.
- B. Refer to Division 06 Section "Miscellaneous Carpentry" for solid surface counters with integral sink bowls.

1.2 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Closeout Submittals:
1. Operation and Maintenance Data: For flushometer valves and electronic sensors to include in operation and maintenance manuals.
- C. Direct Buy Submittals: The Owner will provide the following submittals for the Contractor's review. The Contractor shall review and return submittals as specified in Division 00 Section "General Conditions."
1. Product Data: For each Direct Buy product indicated.

1.3 QUALITY ASSURANCE

- A. NSF Standard: Comply with NSF 61, "Drinking Water System Components--Health Effects," for fixture materials that will be in contact with potable water.

- B. ANSI Standard: Comply with ANSI Z358.1 "Standard for Plumbed and Portable Eyewash Stations" for eyewash stations.
- C. Select combinations of fixtures and trim, faucets, fittings, and other components that are compatible.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. Water Flow and Consumption Rates: Comply with requirements in Public Law 102-486, "Energy Policy Act," for water flow and consumption rates for plumbing fixtures.
- C. Accessibility Requirements: For accessible commercial plumbing fixtures, comply with the DOJ's "2010 ADA Standards for Accessible Design" or ICC A117.1 and requirements of authority having jurisdiction.

2.2 DIRECT BUY PLUMBING FIXTURES:

- A. Refer to Division 01 Section "Vendor Contact List" for contact information on plumbing fixtures, faucets and accessories provided by Owner.
 - 1. Provide drains, p-traps with clean outs, and associated fittings and piping for a complete installation of direct buy owner furnished products.

2.3 CONTRACTOR PROVIDED PLUMBING FIXTURES

- A. Stainless Steel Fixtures:
 - 1. Countertop Lavatories for Restrooms
 - a. Fixture: Stainless steel bowl with overflow.
 - 1) Product: Just Manufacturing Co.; Model UOIF-ADA-1521-A.
 - 2) Standard: ASME A112.19.3/CSA B45.4.
 - 3) Type: Undermount.
 - 4) Material: Stainless steel, Type 304, 18 gage thick.
 - 5) Nominal Size: Approximately 17-1/2 by 12-1/2 inches (445 by 318 mm).
 - 6) Mounting Materials: Brackets, bracket bolt, mildew resistant silicone sealant as recommended by manufacturer.
 - b. Sensor Activated Faucet and Drain: Include compatible transformer(s) per manufacturer requirements for hardwired models.
 - 1) Products:

- a) Sloan; SF-2400 (hard wired for new construction), SF-2450 (battery powered for remodels if hardwired is not applicable)
- b) Zurn; 6950-XL-S (hard wired for new construction, battery for remodels if hardwired is not applicable)
- 2) Type: Commercial with single center hole, ADA compliant. (include trim plate for 4-inch (102 mm) centerset sink if applicable)
- 3) Pedestal Depth: 4 to 6 inch (102 to 152 mm).
- 4) Aerator: Vandal resistant.
- 5) Flow Rate: Aerator limited to maximum 0.5 gpm at 60 psi (1.9 L/min at 414 kPa).
- 6) Drain: 1-1/4-inch (32-mm) integral grid.
- 7) Trap: 1-1/4-inch (32-mm) cast P-trap w/ CO.
- 8) Shutoff Valves: Include manual hand wheel type shutoff valves and connecting stem pipes.
- 9) Finish: Chrome.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install per manufacturer's instructions and recommendations.
- B. Install off-floor supports, affixed to building substrate, for wall-mounting fixtures.
- C. Install back-outlet, wall-mounting fixtures onto waste fitting seals and attach to supports.
- D. Install floor-mounting fixtures on closet flanges or other attachments to piping or building substrate.
- E. Install wall-mounting fixtures with tubular waste piping attached to supports.
- F. Install counter-mounting fixtures attached to countertop.
 - 1. Install countertop undermount stainless-steel fixtures with brackets, bracket bolts, and mildew resistant silicone sealant as recommended by solid surface countertop and fixture manufacturer.
- G. Install fixtures level and plumb according to roughing-in drawings.
- H. Install water-supply piping with stop on each supply to each fixture to be connected to water distribution piping. Attach supplies to supports or substrate within pipe spaces behind fixtures. Install stops in locations where they can be easily reached for operation.
- I. Install faucet-spout fittings with specified flow rates and patterns in faucet spouts if faucets are not available with required rates and patterns. Include adapters if required.
- J. Sensor Faucets: Install transformer and wiring from transformer to each hardwired unit. Coordinate location of mixing valves and transformers for proper access.
- K. Install traps on fixture outlets.

1. Exception: Omit trap on fixtures with integral traps.
2. Exception: Omit trap on indirect wastes, unless otherwise indicated.

- L. Install escutcheons at piping wall and ceiling penetrations in exposed, finished locations and within cabinets and millwork. Use deep-pattern escutcheons if required to conceal protruding fittings.
- M. Seal joints between fixtures and walls, floors, and countertops using sanitary-type, one-part, mildew-resistant silicone sealant. Match sealant color to fixture color.
- N. Install protective shielding pipe covers and enclosures on exposed supplies and waste piping of accessible sinks. Comply with requirements in Section 220719 "Plumbing Piping Insulation."

3.2 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.

3.3 FIELD QUALITY CONTROL

- A. Verify that installed plumbing fixtures are categories and types specified for locations where installed.
- B. Check that plumbing fixtures are complete with trim, faucets, fittings, and other specified components.
- C. Inspect installed plumbing fixtures for damage. Replace damaged fixtures and components.
- D. Test installed fixtures after water systems are pressurized for proper operation. Replace malfunctioning fixtures and components, then retest. Repeat procedure until units operate properly.
- E. Install fresh batteries in sensor-operated mechanisms.

3.4 PROTECTION

- A. Provide protective covering for installed fixtures and fittings.
- B. Do not allow use of plumbing fixtures for temporary facilities unless approved in writing by Owner.

END OF SECTION 22 42 00