

## SECTION 15400 – PLUMBING FIXTURES

### PART 1 GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

#### 1.2 SCOPE

- A. The plumbing fixtures, trim, accessories, and miscellaneous equipment shall be as shown on the drawings. Additional manufacturer's names of fixtures, trim, and miscellaneous equipment shall be listed herein.
- B. All plumbing fixtures and trim shall be new and of the best quality. All fixtures shall bear the manufacturers' guarantee label or trademark, indicating first quality.
- C. ALL fixtures and associated trim, including traps, stops, faucets, flush valves, etc., shall be 'Lead Free' or 'No Lead' and shall be documented as such as part of the submittal process.
- D. All vitreous china, cast iron, and prefabricated fiberglass, polyethylene, acrylic, or polypropylene fixtures shall be white and all fixtures of all types shall be specially selected, free from cracks, chips, flaws, stains and warping, and other defects. Fixtures shall be replaced by the Contractor, and the guarantee period on such replaced fixtures shall be extended for the full term of the guarantee from the date of replacement.
- E. The Contractor shall refer to the Drawings for the quantities of plumbing fixtures of each kind to be furnished.
- F. Provide adapters on all final piping connections to equipment furnished under other contracts or by the Owner.
- G. All fixtures and trim shall be as listed below. Confirm requirements of all fixtures, trim, and manufacturers with Owner prior to ordering. Trim shall be commercial grade.
  - 1. Water Closets, Urinals, Lavatories, and Clinic Sinks – Zurn, American-Standard Brands, Gerber, Kohler
  - 2. Utility Sinks – Zurn, Florestone, or Fiat
  - 3. Stainless Steel Sinks – Just, Advance Tabco, Franke, or Elkay
  - 4. Electric Water Coolers –Haws, Oasis, Elkay, Halsey Taylor
  - 5. Water Closet Seats – Olsonite, Zurn, or Church
  - 6. Lavatory / Sink Faucets – Kohler, Zurn, Chicago Faucet, or Moen
  - 7. Fixture Support Carriers – Zurn, Josam, Smith, Wade, or Watts
  - 8. Waste/Trap Assemblies – Zurn, McGuire Mfg., or Kohler
  - 9. Water Supplies/Stops – Zurn, McGuire Mfg., or Kohler
  - 10. Shower Equipment Assemblies – Symmons, Bradley, Moen, or Acorn.
  - 11. Insulation Kits – Zurn, McGuire, or Truebro
- H. All fixtures and equipment shall be properly trapped in accordance with local code requirements.
- I. All exposed water piping to fixtures shall be chrome plated. Chrome traps and chrome tubing shall be 17 gauge minimum. All traps of all types, exposed and accessible concealed, shall each include cleanout.
- J. All escutcheons shall be chrome, cast brass, set screw type, including on drain assemblies, water supplies at fixtures, and including piping inside fixture cabinets.
- K. Plumbing Contractor shall furnish templates to General Contractor for cut-out work for built-in sinks and lavatories. Confirm available cabinet sizes with the General Contractor or Equipment Supplier prior to ordering counter sinks or counter lavatories of any type.

- L. Rigidly secure shower head supply piping so that heads do not move. Use copper eared tube hangers, locking tube nuts, secured shower riser fittings, or shower arm support adapters, as manufactured by Sioux Chief Manufacturing, or approved equivalent.
- M. Supply piping to fixtures, faucets, shower heads, wall hydrants, and hose bibbs shall be securely anchored to prevent movement.
- N. All ADA water closet tank flushing handles shall be mounted on wide side of toilet areas.
- O. Contractor shall coordinate all installations with Architectural Drawing elevations and ADA required clearances.

## PART 2 PRODUCTS

### 2.1 FIXTURES

- A. WC-1 – Floor-Mounted Pressure-Assist Flush Tank Water Closet – Disabled Height
  - 1. Vitreous china Zurn Z5560-VL, pressure-assist, 1.6 gpf, high bowl, two piece, elongated, floor outlet, close coupled, complete with tank cover locking device, floor mounted siphon jet action tank closet, 12” rough-in, with bolt caps. Brushed Nickel finish flush actuator – Vestige Stock # YN5601BN. Fixture and trim shall be ADA compliant. Provide actuator on wide side of toilet areas, respectively.
  - 2. Zurn No. Z8800CRLKCE-PC chrome water supply with loose key stop and cast brass set screw escutcheon.
  - 3. Olsonite Model 10SSCAM, heavy duty, anti-microbial, commercial grade, open front, plastic seat less cover, with self-sustaining stainless steel concealed check hinges.
- B. L-1 – Integral Bowl with Manual Faucet – Disabled Height
  - 1. Bowl shall be integral to the countertop furnished and installed by the G.C. Coordinate supply, drain, and faucet rough-ins with the G.C. Fixture shall be ADA compliant.
  - 2. Drain shall be Zurn No. Z8746-PC flat perforated strainer drain with 1-1/4” offset tailpiece.
  - 3. P-Trap assembly shall be Zurn No. Z8701-9-PC, 1-1/4” x 1-1/2”, with cleanout.
  - 4. Water supplies shall be Zurn Z8800LRLK-PC. Brass ball valve type “convertible” stops acceptable. Provide Zurn No. Z8946-3-NT ADA compliant insulation kit for waste and supply assemblies.
  - 5. Manual Faucet shall be Moen Model # 8917CBN, Classic Brushed faucet and level handles, 4” centers, 0.5 GPM Aerator for public areas.
- C. L-2 – Integral Bowl with Battery-Powered Sensor Faucet – Disabled Height
  - 1. Bowl shall be integral to the countertop furnished and installed by the G.C. Coordinate supply, drain, and faucet rough-ins with the G.C. Fixture shall be ADA compliant
  - 2. Drain shall be Zurn No. Z8746-PC flat perforated strainer drain with 1-1/4” offset tailpiece.
  - 3. P-Trap assembly shall be Zurn No. Z8701-9-PC, 1-1/4” x 1-1/2”, with cleanout.
  - 4. Water supplies shall be Zurn Z8800LRLK-PC. Brass ball valve type “convertible” stops acceptable. Provide Zurn No. Z8946-3-NT ADA compliant insulation kit for waste and supply assemblies.
  - 5. Battery-Powered Faucet shall be Zurn No. Z5913-CP4-F-DC-TMV-1-LX, “Lead Free”, heavy duty cast brass spout, polished chrome plated finish, 40 second maximum safety shutoff time, 6V. lithium CRP2 battery-included, 0.5 GPM vandal-resistant pressure compensating spray outlet, catalog No. 241.892.21.1, low battery indicator, for four (4) manufacturer’s warranties covering mechanicals, batteries, electronics and solenoid, and faucet finish.
- D. SH-1 – Built-in Place Shower – Disabled Height
  - 1. Disabled Shower unit will be constructed under the General Contract.

2. Shower Valve and Head Moen Model # T8342CBN, Classic Brushed Nickel Finish, pressure balancing mixing valve with single blade lever handle, integral service stops, and adjustable stop screw to limit handle turn. Provide diverter with integral volume control, ball joint type, with adjustable spray. Include shower arm and flange, and wall/hand shower with 60" minimum flexible modified- metal hose, in-line vacuum breaker, wall connection and flange, spray head (plastic spray head not acceptable), and 28 1/2" slide bar for hand shower mounting. Set flow restriction for shower head to 2.5 gpm. Shower unit shall conform to ASSE 1016. Provide Proline Drain Trench Drain. Refer to QuickDrainUSA.com.
- E. EWC-1 – Dual Height Electric Water Cooler – Standard & Disabled Height
1. Fixture shall be Oasis Model P8SBFSL "Hi-Lo" unit with bottle filler. Unit shall be dual purpose type, one fountain mounted at standard height; the other, for ADA compliance. Chrome plated brass bubblers. The unit shall deliver 8.0 gallons per hour of chilled drinking water. Each water cooler shall have a No. 4 stainless steel cabinet. Include all required piping for both coolers. Complete with hanger brackets, waste bends, strainers, and tailpieces. Bottle filler on "low" side.
  2. Fixture shall also include a manufacturer's stainless steel skirt assembly for compliance with ANSI accessibility guidepiping for the blind. Skirt shall comply with ADA. Unit shall be complete with all mounting hardware and shall be installed by the Plumbing Contractor. Oasis Model 035174-014.
  3. In-Line Strainer: Oasis Model 033264-003, 100 micron mesh screen, or equivalent.
  4. Filter – Oasis Model 033926-001, Versafilter 12" x 3", Filter media includes chlorine, taste, odor and lead reducing element.
- F. MB-1 – Mop Basin
1. Zurn No. Z1996-24-SD-BS-WG-HH-MH mop basin, 24" x 24" x 10" high, with stainless steel dome strainer and 3" outlet, of color selected by Architect. Complete with four (4) stainless steel rim guards; back and side 24" stainless steel wall guard panels, of number required by the installation, Type 304, 20 gauge; 30" heavy duty 5/8" rubber hose/bracket combination and mop hanger bracket, stainless steel, 24" x 3" wide. Use silicone sealant caulk on all wall and floor contact edges.
  2. For concealed supplies, faucet shall be Zurn No. Z843M1-RC-XL 'Lead Free' faucet with vacuum breaker spout, pail hook, wall brace, lever handles, and rough chrome plate finish.
  3. Furnish and install check valves in hot and cold water piping serving the combination faucet.
- G. US-1 – Utility Sink
1. Zurn Model No. MS2620-W-DF1-AW-PL single bowl, wall mounted, with support legs, polypropylene construction, approximately 22-3/8" x 26" in size, appliance white, or of color selected by the Architect. Unit shall include dual handle deck faucet, along with wall mounting brackets with hardware and filler panels. A fiberglass constructed sink will be acceptable.
  2. Drain and tailpiece assembly and drain plug.
  3. 1-1/2" chrome adjustable P-Trap and waste to wall with escutcheon.
  4. 1/2" water supplies with Zurn loose key stops.
  5. Chicago Faucet No. 772-CP-AB, 'Lead Free' deck mounted chrome faucet, 3-3/8" centers, less No. S6 6" cast swing spout, but modified with No. L5VBJKCP chrome vacuum breaker swing spout, with 3/4" hose thread outlet; W straight flanged inlet arms, and No. 369 handles. Provide Chicago Faucet No. 748-002KJKRBF inlet shanks, required for installation.
    - a. Provide a vacuum breaker on faucet outlet.
    - b. Provide a Delta No. 28T911, or equivalent, heavy duty 31" long hose with stainless steel 3" x 4" hanger bracket and rubber grip. Provide a

Delta No. 2BT910 3" x 26" stainless steel mop hanger with rubber grips, or equivalent.

- H. S-1 – Drop In Single Bowl Stainless Steel Sink – Disabled Height
1. Just Company SL-ADA-2019-A-GR-6, single bowl, Type 304, 18-8, 18 gauge stainless steel countertop ledgeback sink unit, 20"x19", 6" deep, three (3) hole punch. Sound deadened. Self rim. Fixture and faucet shall be ADA compliant, arranged for disabled use.
  2. The two handle sink faucet shall be of brass construction and brass valve bodies with brushed nickel finish. Product shall have a minimum flow rate of 2.2 gallons per minute with lower flow aerator options available. Product shall feature quarter-turn washerless ceramic disc valves, 9-3/16" swing spout reach, ADA compliant lever handles, flexible connections for easy installation. No Spray. Product be for 8" centers. Faucet shall be Kohler Model K-377-4M-BN. Faucet to be "Lead Free".
  3. Just J-35 stainless steel drain and tailpiece assembly with 1-1/2" Schedule 40 PVC adjustable P-Trap and waste assembly.
  4. Water supplies shall be Zurn Z8800LRLK-PC-XL, 'Lead Free'. Brass ball valve type "convertible" stops acceptable.
  5. Zurn No. Z8946-3-NT ADA compliant insulation kit for waste and hot and cold water assemblies, vandal-resistant; when exposed to users.
  6. Sink countertop openings by General Contractor. Sink set and sealed by Plumbing Contractor.
- I. S-2 – Undermount Double Bowl Stainless Steel Sink – Disabled Height
1. Just Company D-ADA-1933-A-GR-6, double bowl, Type 304, 18-8, 18 gauge stainless steel countertop sink unit, 19" x 33", each bowl 6" deep. Sound deadened. Self rim. Fixture and faucet shall be ADA compliant, arranged for disabled use.
  2. The two handle sink faucet shall be of brass construction and brass valve bodies with brushed nickel finish. Product shall have a minimum flow rate of 2.2 gallons per minute with lower flow aerator options available. Product shall feature quarter-turn washerless ceramic disc valves, 9-3/16" swing spout reach, ADA compliant lever handles, flexible connections for easy installation and matching finish sidespray. Product be for 8" centers. Faucet shall be Kohler Model K-377-4M-BN. Faucet to be "Lead Free".
  3. Just J-35 stainless steel drain and tailpiece assembly with 1-1/2" Schedule 40 PVC adjustable P-Trap and waste assembly.
  4. Water supplies shall be Zurn Z8800LRLK-PC-XL, 'Lead Free'. Brass ball valve type "convertible" stops acceptable.
  5. Zurn No. Z8946-3-NT ADA compliant insulation kit for waste and hot and cold water assemblies, vandal-resistant; when exposed to users.
  6. Provide 1/2" hot water connection and drain connection for dishwasher as a part of the fixture supply and drain piece assembly. Provide backflow preventer in dishwasher supply piping.
  7. Provide 1/2" cold water connection for coffee maker as a part of the fixture supply assembly. Provide backflow preventer in coffee maker supply piping.
  8. Sink countertop openings under General Contract. Sink set and sealed by Plumbing Contractor.
- J. S-3 – Undermount Single Bowl Stainless Steel Sink – Disabled Height
1. Just Company S-ADA-1919-A-GR-6, Single Bowl, Type 304, 18-8, 18 gauge undermount sink unit, 19" x 19", 6" deep. Sound deadened. Fixture and faucet shall be ADA compliant, arranged for disabled use.
  2. The two handle sink faucet shall be of brass construction and brass valve bodies with brushed nickel finish. Product shall have a minimum flow rate of 2.2 gallons per minute with lower flow aerator options available. Product shall feature quarter-turn washerless ceramic disc valves, 9-3/16" swing spout reach, ADA compliant lever handles, flexible connections for easy installation. No Spray.

- Product be for 8" centers. Faucet shall be Kohler Model K-377-4M-BN. Faucet to be "Lead Free".
3. Just J-35 stainless steel drain and tailpiece assembly with 1-1/2" Schedule 40 PVC adjustable P-Trap and waste assembly.
  4. Water supplies shall be Zurn Z8800LRLK-PC-XL, 'Lead Free'. Brass ball valve type "convertible" stops acceptable.
  5. Zurn No. Z8946-3-NT ADA compliant insulation kit for waste and hot and cold water assemblies, vandal-resistant; when exposed to users.
  6. Provide 1/2" hot water connection and drain connection for dishwasher as a part of the fixture supply and drain piece assembly. Provide backflow preventer in dishwasher supply piping.
  7. Provide 1/2" cold water connection for coffee maker as a part of the fixture supply assembly. Provide backflow preventer in coffee maker supply piping.
  8. Sink countertop openings by General Contractor. Sink set and sealed by Plumbing Contractor.
- K. S-4 – Drop In Single Bowl Stainless Steel Sink – Disabled Height
1. Just Company SL-ADA-2019-A-GR, single bowl, Type 304, 18-8, 18 gauge stainless steel countertop ledgeback sink unit, 20"x19", 6" deep, three (3) hole punch. Sound deadened. Self rim. Fixture and faucet shall be ADA compliant, arranged for disabled use.
  2. Zurn No. Z831J1-ICT-XL 'Lead Free' manual faucet with swing spout, lever handles, and aerator.
  3. Just J-35 stainless steel drain and tailpiece assembly with 1-1/2" Schedule 40 PVC adjustable P-Trap and waste assembly.
  4. Water supplies shall be Zurn Z8800LRLK-PC-XL, 'Lead Free'. Brass ball valve type "convertible" stops acceptable.
  5. Zurn No. Z8946-3-NT ADA compliant insulation kit for waste and hot and cold water assemblies, vandal-resistant; when exposed to users.
  6. Sink countertop openings by General Contractor. Sink set and sealed by Plumbing Contractor.
- L. S-5 – Shampoo Sink – Disabled Height
1. Adjust-a-Sink by Accessible Systems Series K 100 hydraulic elevating sink with foot pump control complete with Marble Products 3000W cultured marble shampoo bowl, faucet valve with whiz spray, vacuum breaker and strainer basket filter, stainless steel/coated steel lift system, laminated mounting panels, chrome plated pump and steel drain shroud. Bowl color is to be Owner/Architect selected. Laminate color is to be Owner/Architect selected.
  2. Accessible Systems, LLC, Minneapolis, MN 55414, telephone 866-938-4608, fax 612-238-4601.
  3. Supply Fittings: Two (2) angle stops with supply fittings integral with fixture. Provide flexible risers and escutcheons.
  4. Waste Fittings: 1 1/2" tailpiece and tubing to wall with escutcheon.
- M. CL-1 – Floor Mounted Clinic Sink
1. Zurn No. Z5420 vitreous china floor mounted clinic service sink, blowout action, 21-1/2" x 19", integral flushing rim, 4" wall outlet, with 1-1/2" top spud.
  2. Zurn No. Z60842AV-H-YJ-XL 'Lead Free' flush valve, and service sink faucet, specially made for clinic sinks, 6.5 gallon per flush, handle on front of valve, chrome supply, and split ring support. Faucet shall include wrist blade handles, Zurn No. Z842M4-LS1-2XT-XL, 'Lead Free'. The Chicago Faucet No. 815-CP-AB faucet acceptable.
  3. Zurn No. Z87302-EVB-HK-SE-SH2-XL, 'Lead Free' wall mounted bed pan cleaner, hot and cold, 4' of white vinyl spray hose, with angled head and insulated handle, spray outlet; wall hook, and elevated vacuum breaker. Contractor shall furnish and install all wall support blocking required for the installation of the bed pan cleaner.
  4. Including Williams Model # 1028 Clinic Sink Base.

## PART 3 EXECUTION

### 3.1 INSTALLATION

- A. All fixtures, trim, accessories, and equipment shall be assembled and installed according to manufacturers' recommendations in a neat and workmanlike manner.
- B. Thoroughly clean all fixtures, trim, accessories, and equipment installed under this Contract.
- C. Refer to Section 15051 for "Final Connections".
- D. Refer to the Architectural and Plumbing Drawings for scheduled mounting heights and clearances for fixtures and equipment. Particular attention is directed to mounting and clearances for ADA fixtures.
- E. Upon completion of this Contract, the Plumbing Contractor shall furnish the Owner's maintenance personnel with a Supplier faucet repair kit furnished by the approved faucet supplier.
- F. Caulk with white silicone sealant caulk on all wall and floor contact edges on all fixtures, or of color caulk selected by the Architect. Caulk shall be of suitable type which can be painted.
- G. Set shower valve checkstops at 120° F, or as otherwise directed by the Owner. Set lavatory and sink mixing valves as indicated or as directed by the Owner.
- H. Adjust water cooler flow regulators for proper flow and stream height. Adjust to obtain maximum useable pressure at each water cooler. Adjust water cooler temperature settings.
- I. Individual mixing valves shall be utilized at certain fixtures and equipment receiving hot water as designated; refer to Section 15111 regarding mixing valve specifications. The Plumbing Contractor shall verify exact requirements, quantities, and locations of mixing valves with the local Plumbing Inspector prior to ordering or installation.

END OF SECTION