

SECTION 22 40 10 – PLUMBING FIXTURES

PART 1 - GENERAL

1.1 WORK INCLUDED

- A. The Work of this Section shall consist of the labor, materials and equipment required for installation of plumbing fixtures and associated fittings and trim.

1.2 SUBMITTALS

- A. Submit for approval in accordance with specified submittal procedures:
 - 1. Water Closets
 - 2. Urinals
 - 3. Lavatories
 - 4. Mop Receptors
 - 5. Drinking Fountains
- B. Substitute manufacturer's fixtures shall be similar in style, dimensions and quality to the basis of design manufacturer's specified model number.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Fixtures shall be of one manufacturer, insofar as possible, and of first quality. Wall hung vitreous china fixture backings shall be drilled and tapped for mounting carriers specified.

2.2 WATER CLOSETS

- A. Water Closet WC-1
 - 1. Acceptable Manufacturer: American Standard Afwall, or Kohler, Toto, Sloan, Zurn.
 - 2. Type: Wall hung, flush valve type, 1.28 gallon per flush, vitreous china, siphon jet action, elongated bowl, 1-1/2 inch top spud.
 - 3. Seat:
 - a. Acceptable Manufacturer: Church, or Beneke, Olsonite, Bemis.
 - b. Extra heavy, elongated, white, open front, check hinge.
 - 4. Battery Powered Flush Valve:
 - a. Acceptable Manufacturer: Toto TET1LB32#CP, or Sloan, Zurn.

- b. ADA compliant, 1.28 gallon per flush, less handle opening, battery powered infrared sensor, diaphragm or piston valve, chrome plated cover assembly with integral window, flush delay, override button, batteries, low battery flashing LED, infrared sensor adjustment, screw driver check angle stop with vandal resistant cap, sweat solder adaptor, adjustable tailpiece, vacuum breaker flush connection, spud coupling, and flange.
- 5. Carrier (compact or standard, as required for the application):
 - a. Acceptable Manufacturer: J.R. Smith, or Watts, Wade, Zurn, Josam, Mifab.
 - b. Cast iron, adjustable, vandal-proof trim.

B. Water Closet WC-2

- 1. Acceptable Manufacturer: American Standard Aftwall, or Kohler, Toto, Sloan, Zurn.
- 2. Type: Wall hung, ADA compliant, flush valve type, 1.28 gallon per flush, vitreous china, siphon jet action, elongated bowl, 1-1/2 inch top spud.
- 3. Seat:
 - a. Acceptable Manufacturer: Church, or Beneke, Olsonite, Bemis.
 - b. Extra heavy, elongated, white, open front, check hinge.
- 4. Battery Powered Flush Valve:
 - a. Acceptable Manufacturer: Toto TET1LB32#CP, or Sloan, Zurn.
 - b. ADA compliant, 1.28 gallon per flush, less handle opening, battery powered infrared sensor, diaphragm or piston valve, chrome plated cover assembly with integral window, flush delay, override button, batteries, low battery flashing LED, infrared sensor adjustment, screw driver check angle stop with vandal resistant cap, sweat solder adaptor, adjustable tailpiece, vacuum breaker flush connection, spud coupling, and flange.
- 5. Carrier (compact or standard, as required for the application):
 - a. Acceptable Manufacturer: J.R. Smith, or Watts, Wade, Zurn, Josam, Mifab.
 - b. Cast iron, adjustable, vandal-proof trim.

2.3 URINALS

A. Waterless Urinal UR-1

- 1. Acceptable Manufacturer: Sloan WES-1000, or Toto, Zurn.
- 2. Type: No-flush, no-touch, waterless, vitreous china, wall hung with sealed locking cartridge. Wall bracket and anchors included.
- 3. Contractor shall furnish 1 additional gallon bottle of sealant for every 3 waterless urinals. A minimum one gallon of sealant shall be supplied. If urinal uses cartridge in lieu of replaceable liquid, furnish 2 additional cartridges for every waterless urinal.

B. Waterless Urinal UR-2

- 1. Acceptable Manufacturer: Sloan WES-1000, or Toto, Zurn.
- 2. Type: No-flush, no-touch, waterless, vitreous china, wall hung with sealed locking cartridge. Wall bracket and anchors included. ADA compliant.

3. Contractor shall furnish 1 additional gallon bottle of sealant for every 3 waterless urinals. A minimum one gallon of sealant shall be supplied. If urinal uses cartridge in lieu of replaceable liquid, furnish 2 additional cartridges for every waterless urinal.

2.4 LAVATORIES

A. Lavatory L-1

1. Acceptable Manufacturer: Kohler K-2032, or American Standard.
2. Type: ADA compliant, 21 inch x 18 inch vitreous china, wall hung with anti-splash rim, drilled with centers to accommodate faucet and concealed arm carriers.
3. Battery Powered Faucet:
 - a. Acceptable Manufacturer: Toto EcoPower TEL5LI15R, or Sloan.
 - b. Automatic infrared sensor activated faucet with 0.5 GPM spray, grid drain, chrome finish.
4. Supplies:
 - a. Acceptable Manufacturer: McGuire 170LK, or Brasscraft.
 - b. 3/8 inch wall supplies, loose key angle stops, flexible tube riser, escutcheon, chrome finish.
5. Trap:
 - a. Acceptable Manufacturer: McGuire 8872C or Brasscraft.
 - b. 1-1/4 inch, 17 gage cast brass adjustable P-trap, cleanout plug, escutcheon, chrome finish.
6. Drain and Supply Line Covers:
 - a. Acceptable Manufacturer: True Bro Model 102W or Prowrap.
 - b. ADA compliant, flexible vinyl insulation installed on exposed drain piping, hot water piping and cold water piping.
 - c. ANSI A117.1-2003.
7. Carrier:
 - a. Acceptable Manufacturer: J.R. Smith 700, or Wade, Watts, Zurn, Josam, Mifab.
 - b. Concealed arms with mechanical locking device, high strength steel uprights with block bases of bolting to floor construction.
8. Accessories: Point-of-use thermostatic mixing valve(s), where applicable, shall comply with ASSE 1070.

2.5 MOP RECEPTORS

A. Mop Receptor MR-1

1. Acceptable Manufacturer: Fiat, or Floestone, Stern-Williams.
2. Type: One piece precast terrazzo, integral cast drain, stainless steel protective cap on exposed sides, size as scheduled on Drawings.
3. Type: One piece molded construction, seamless, integral drain.

4. Faucet:

- a. Acceptable Manufacturer: T&S Brass B-0665-BSTR, or Chicago, Kohler.
- b. Polished chrome plated with vacuum breaker, lever handles, threaded spout, rubber hose, wall hook, loose key stops.

5. Accessories:

- a. Acceptable Manufacturer: Fiat, or Florestone, Stern-Williams.
- b. Mop Hanger: Stainless steel with three rubber tool grips.
- c. Wall Guard: Heavy gage stainless steel.

2.6 DRINKING FOUNTAINS

A. Drinking Fountain DF-1

- 1. Acceptable Manufacturer: Elkay LK4430BF1LFRK.
- 2. Type: Outdoor, free standing, tri-level pedestal with upper bottle filling station. Non-filtered, non-refrigerated, freeze proof, stainless steel, heavy duty, vandal resistant construction.
- 3. Color: Evergreen (EVG)

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Plumbing fixtures shall be installed square with wall, in line, and level, to give a uniform appearance. Plumbing trim and exposed supply and waste piping, including traps, shall be polished chrome plated brass, unless otherwise specified.
- B. Drain and supply line covers shall be provided for all exposed plumbing (drain, tailpiece, trap, hot and cold water supplies, etc.) beneath ADA compliant lavatories and sinks.
- C. Each hot and cold water connection to plumbing fixtures and equipment shall be valved, if not provided with integral stops as specified herein.
- D. Calk space watertight between plumbing fixtures and wall or floor; silicone, white for all white fixtures, clear for all other colors.
- E. Contractor shall be responsible to coordinate the orientation of all plumbing fixtures (i.e. left-hand, right-hand) with ADA requirements and general building conditions. Model numbers are listed for plumbing fixtures to illustrate a standard of quality for materials and indicate a specific style.
- F. Contractor shall be responsible to coordinate carriers with chase dimensions and choose compact carriers where chase dimensions are narrow and free space will not accommodate standard size carriers.
- G. Coordinate lavatory and sink hole drilling configurations with faucets.

3.2 TESTING

- A. Plumbing fixtures shall be filled with water and checked for leaks or retarded flow. Remove and clean all aerators.

END OF SECTION