SECTION 15410 - PLUMBING FIXTURES

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS

A. Division 1 - General Requirements is made a part of this section.

B. Submittals: Product Data for each type of plumbing fixture.


D. Comply with applicable standards below:

PART 2 - PRODUCTS

2.1 Toilet

A. Toilet Bowl: Comfort height two-piece elongated toilet or comparable wall mount.

   1. Products:
      a. Kohler Wellworth
         1) 30" x 18" x 29-1/4"
         2) 2-1/8" fully glazed trapway
         3) Class Five® flushing technology
         4) DryLock™ attachment plate
         5) KOHLER Comfort Height™
         6) 1.28 gpf High-Efficiency Toilets
         7) Meet strict flushing performance guidelines established by the EPA's (Environmental Protection Agency) WaterSense program
         8) Model # K-3998 (hand appropriate for install)
         9) Elongated bowl
         10) Provide Kohler Stronghold commercial toilet seat KL-4731-C
      b. Kohler Wellworth
         1) 28-1/4" x 14-7/8" x 15"
         2) 1-1/2" top spud
         3) 10" rough in
         4) 2-1/4" passageway
         5) 1.28 gpf High-Efficiency Toilets
         6) Model # K-4406
         7) Elongated bowl
         8) Provide Kohler Stronghold commercial toilet seat K-4731-C
      c. Kohler Kingston - ADA
         1) 26-1/2"L x 16-1/2"W x 13-3/4"H
2) Wall mount
3) Siphon jet
4) 1-1/2” rear spud
5) 1.28 gpf High-Efficiency Toilets
6) Meet strict flushing performance guidelines established by the EPA’s (Environmental Protection Agency) WaterSense program
7) Model # K-4323
8) Elongated bowl
9) Provide Kohler Stronghold commercial toilet seat K-4731-C
d. Kohler Kingston
1) 26-1/2"L x 16-1/2"W x 13-3/4"H
2) Wall mount
3) Siphon jet
4) 1-1/2” top spud
5) 1.28 gpf High-Efficiency Toilets
6) Meet strict flushing performance guidelines established by the EPA’s (Environmental Protection Agency) WaterSense program
7) Model # K-4325
8) Elongated bowl
9) Provide Kohler Stronghold commercial toilet seat K-4731-C
e. Crane Flormont Round Front Back Outlet Toilet
1) 1.6 gal low-consumption
2) Round front bowl
3) Gravity fed siphon jet flush action
4) Fully glazed 1-7/8” trapway
5) Polished chrome trip lever
6) 4 bolt caps included
7) 3930N
8) Provide toilet seat
f. Kohler Bardon 1/8th GPF
1) Vitreous china
2) Washout
3) ¾” top spud
4) 14” extended rim
5) 0.125 gpf
6) Model # K-4904-ET

B. Toilet Seat: Kohler Stronghold:
   1. Commercial toilet seat.
      a. Solid polypropylene plastic
      b. Elongated open front with cover, bumpers and hardware,
      c. Check hinge
      d. ADA compliant
      e. Model # K-4731-C

C. Flushometer: Valves & Float Valves:
   1. Products:
      a. Royal Model Flushometer: 111-1.28
      b. Royal Model Flushometer: 186-0.25
c. Kohler Float Valve Kit, Model #30672 (Verify compatibility with existing toilets) or approved equal.

D. Toilet flush balls / flappers
   1. Kohler flapper kit or approved equal.

2.2 Lavatory
   A. Plastic Lavatory: Integral lavatory and countertop with backsplash - size as noted.
      1. Products:
         a. Cultured marble or solid surface material by Nevamar, Vermax or approved equal.
         b. Color: To be selected by the Owner from manufacturer’s standard colors.
   B. Wall Mounted Vitreous China:
      1. Products:
         a. American Standard Comrade 0124.024
            1) 20” x 18-1/4”
            2) Centers: 4” faucet centers
            3) Bowl: 15” x 10-7/8” bowl
            4) Soap Dish: One integral self-draining soap dish
            5) Rear Overflow
            6) Fast aligning one-piece wall hanger
         b. Gerber Model #12-314 PLYMOUTH ‘Ledge Type’
            1) Size: 19” x 17” or size required to fit specific location.
            2) Centers: 4” faucet centers
            3) Bowl: 15” x 10 ¾” bowl
            4) Soap Dishes: Two integral self-draining soap dishes
            5) Back Overflow
            6) Fast aligning one-piece wall hanger
   2.3 Faucets:
      A. ASME A112.18.1M; Polished chrome finish, unless otherwise indicated. Maximum 2.5-gpm flow rate.
      1. Provide PCA Spray faucet attachment for all faucets installed:
         a. Neoperl PCA Spray faucet attachment, vandal proof, B9.66F3.1-kitchens
         b. Provide Neoperl PCA Spray faucet attachment, vandal proof, B9.65F3.1-bathrooms
      2. Products:
         a. Kitchen Faucets: Delta 120 single handle with no spray, 10” long spout ½” I.P.S. shanks 2.2 gpm V.R aerator
            1) Type: Widespread with inlets on 6-inch centers.
            2) Handle(s): Dual lever.
            3) Drain: Grid strainer.
            4) Trap: Chrome-plated, with slip-joint inlet and wall flange.
         b. Bathroom Faucets: Delta HDF series Model #515-WFHGMHDF: 4 ½” long spout
            1) Type: 3-hole installation – 4” center set.
2) Handle(s): Vandal resistant elbow handle with red/blue handle indicators.
3) Drain: HDF series standard.
4) Trap: Chrome-plated, with slip-joint inlet and wall flange.

   c. Owner Identified Bathrooms (Fisk Hall): Moen T6420 – Eva two handle widespread bathroom faucet; chrome finish.
   1) Type: 3-hole installation – 4” center set.
   2) Handle(s): Lever style; tapered.
   3) Drain: Matching drain assembly.
   4) Trap: Chrome-plated, with slip-joint inlet.

2.4 Tub / Shower:

   A. Plastic Shower Enclosure: ANSI Z124.2 and ANSI Z124.2a;
   1. Product: Sterling or approved equal
      1) Size: To be determined based on field conditions.
      2) Style: Neo-angle corner shower unit (Field Measure to Verify)
      3) Style: Square shower unit (Field Measure to Verify)
      4) Color: White

   B. Shower Doors:
   1. Products:
      a. Door: Sterling or approved equal - Neo-Angle Deluxe Shower Doors (Pivot Hinge)
      b. Door: Basco pivot hinge shower door
      c. Door: Dreamline or approved equal bifold shower door
         1) Finish: Silver
         2) Glass: Tempered
         3) Glass Texture: Pebbled
         4) Size (Coordinate size with available space in bathroom and shower floor base)

   C. Mixing-Valve Faucet and Miscellaneous Fittings: Single-lever antiscald-type faucet; maximum 1.5-gpm flow rate; and polished, chrome-plated finish; unless otherwise indicated.
   1. Products for Woodframe houses:
      a. Symmons 96-2X Temptrol tub and shower system. (S962X)
         1) Drain: Compatible w/ Temptrol tub and shower system.
         2) Temptrol Pressure-Balancing mixing valve with combination integral diverter and volume control
         3) Adjustable stop screw to limit handle turn
         4) Tub spout
         5) Clear-Flo shower head, arm and flange
         6) Internal service stops
         7) Flow-Control Fitting: 1.5 gpm (5.7 L/min) flow restrictor
      b. Symmons 96-1X Temptrol valve shower w/stop (S961X)
         1) Pressure-Balancing mixing valve with integral volume control
         2) Integral service stops
         3) Adjustable stop screw to limit handle turn
         4) Clear-Flo shower head with arm and flange
         5) Flow-Control Fitting: 1.5 gpm (5.7 L/min) flow restrictor
2. Products for Dormitory use:
   a. Symmons Safety Mix Model 1-100X with internal stops.

D. Shower Floor Base: Swanstone Veritek Retrofit Shower Floor (Size based on field measurements and available space in bathroom – coordinate with shower door size).

2.5 Kitchen Sinks:
   A. Stainless-Steel Sink: Counter-mounting, self-rimming type – 20 gauge stainless steel.
      1. Products:
         a. Woodframe Houses: Elkay Pacemaker Model PSR3322 double bowl sink (No sprayer).
         b. Drain(s): Stainless steel strainer bucket.

2.6 Accessories:
   1. Products:
      a. Apollo Valves
         1) Provide hot and cold water shut off valves on all supply piping
         b. Provide wall escutcheons at all penetrations through wall.

PART 3 - EXECUTION

3.1 INSTALLATIONS
   A. Install fitting insulation kits on fixtures for people with disabilities.
   B. Install fixtures with flanges and gasket seals.
   C. Install flushometer valves for accessible water closets with handle mounted on wide side of compartment. Install other actuators in locations that are easy for people with disabilities to reach.
   D. Install tanks for accessible, tank-type water closets with lever handle mounted on wide side of compartment.
   E. Fasten wall-hanging plumbing fixtures securely to supports attached to building substrate when supports are specified, and to building wall construction where no support is indicated.
   F. Fasten floor-mounted fixtures to substrate. Fasten fixtures having holes for securing fixture to wall construction, to reinforcement built into walls.
   G. Fasten wall-mounted fittings to reinforcement built into walls.
   H. Fasten counter-mounting plumbing fixtures to casework.
   I. Secure supplies to supports or substrate within pipe space behind fixture.
   J. Set shower receptors and mop basins in leveling bed of cement grout.
   K. Install individual supply inlets, supply stops, supply risers, and tubular brass traps with cleanouts at fixture.
L. Install water-supply stop valves in accessible locations.

M. Install traps on fixture outlets. Omit traps on fixtures having integral traps. Omit traps on indirect wastes, unless otherwise indicated.

N. Install escutcheons at wall, floor, and ceiling penetrations in exposed, finished locations and within cabinets and millwork. Use deep-pattern escutcheons where required to conceal protruding pipe fittings.

O. Seal joints between fixtures and walls, floors, and counters using sanitary-type, one-part, mildew-resistant, silicone sealant. Match sealant color to fixture color.

P. Install piping connections between plumbing fixtures and piping systems and plumbing equipment. Install insulation on supplies and drains of fixtures for people with disabilities.

Q. Ground equipment. Tighten electrical connectors and terminals according to UL 486A and UL 486B.

END OF SECTION 15410