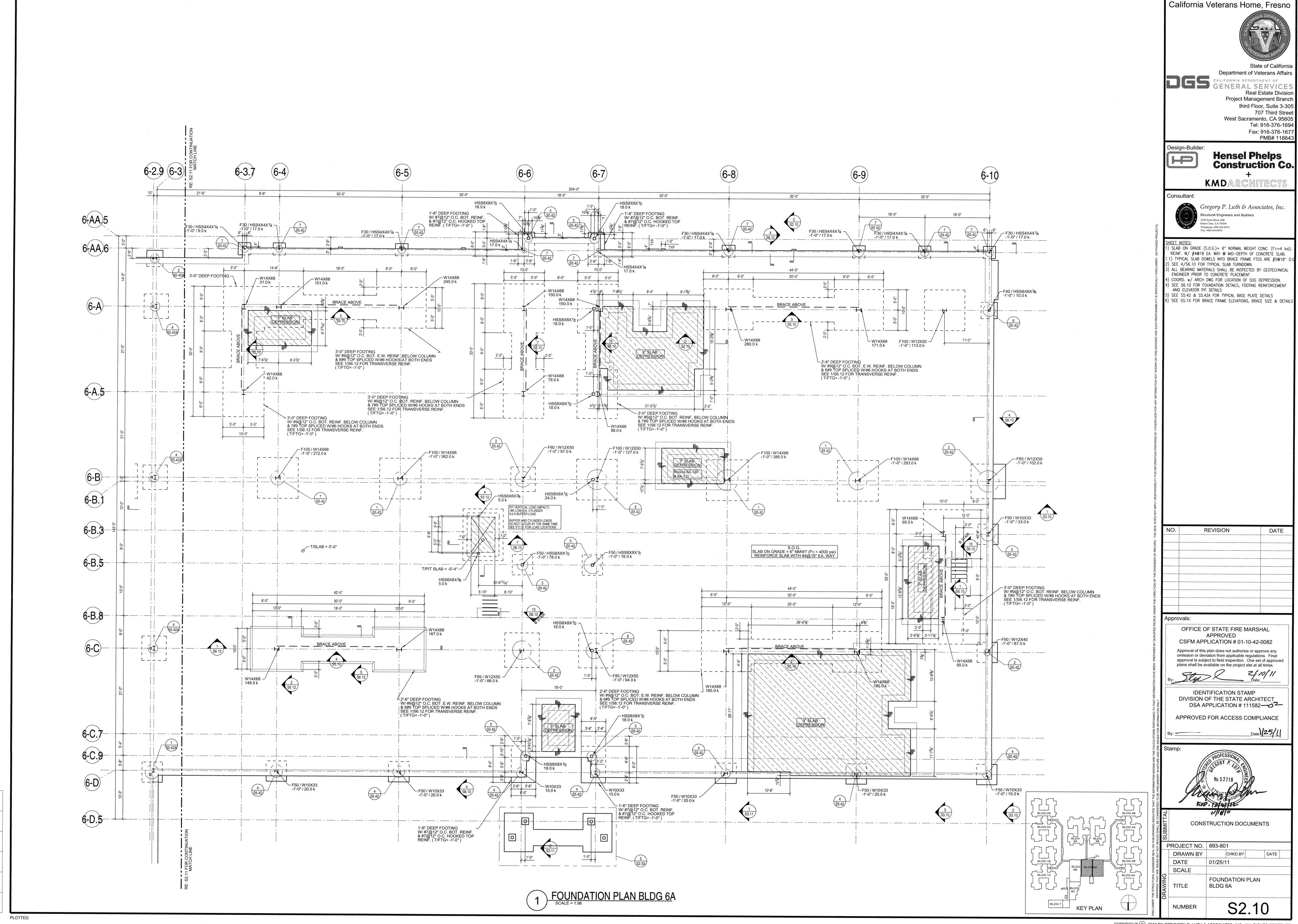
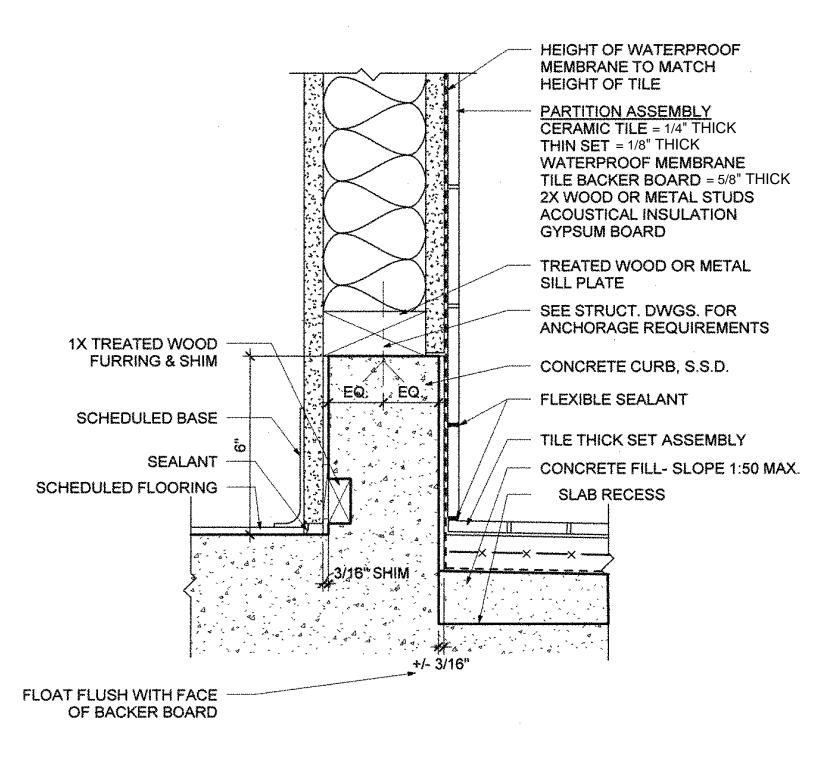


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California Veterans Home, Fresno

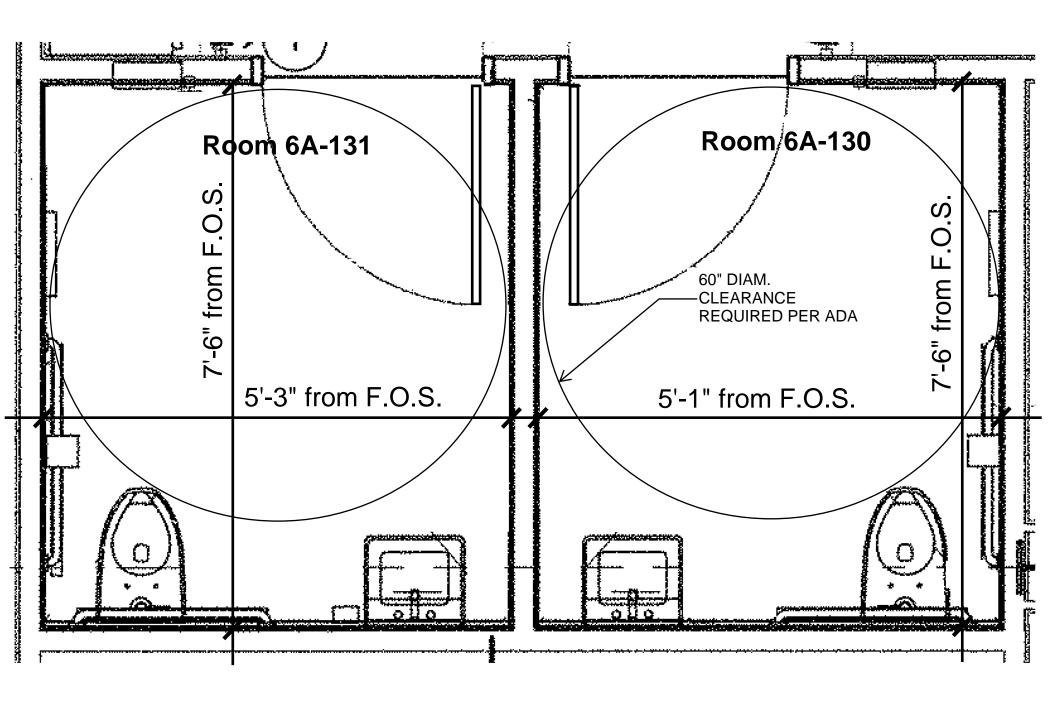
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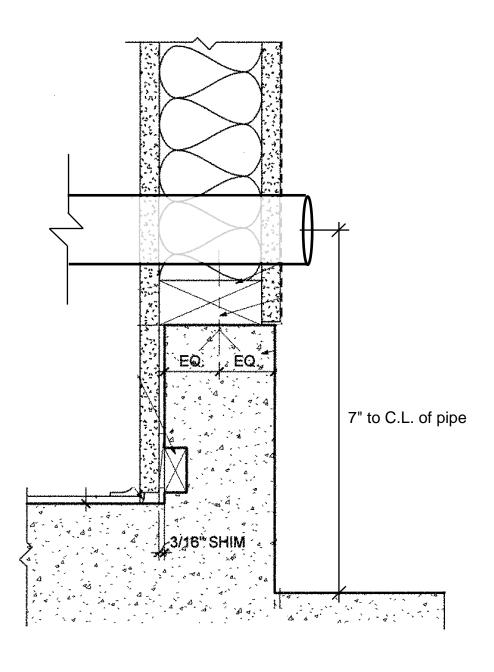
TYPICAL INTERIOR PARTITION AT CURB

SCALE 3" = 1'-0"

FROM SHEET A10.39



ROOM 6A-130 & 6A-131 ROOM DIMENSION AS-BUILT



ROOM 6A-130 & 6A-131 PLUMBING ROUGH-IN AS-BUILT



Model

WETS 2050.1402-1.28 SMO

OPTIMA Plus® Systems Sensor Activated HET Flushometer and HET Wall Hung Water Closet

DESCRIPTION

Complete HET system with exposed, battery powered, sensor activated, Royal® OPTIMA Plus® SMO closet Flushometer and vitreous china wall hung fixture.

Flush Cycle

Model WETS-2050.1402-1.28 SMO (1.28 gpf/4.8 Lpf)





Meets the American Disabilities Guidelines and ANSI A117.1 requirements when installed according to these requirements.



NOTE

Plumbing System Requirements

• Minimum **Flowing** Pressure: 25 PSI

Minimum Flow Rate: 18 GPM

SPECIFICATIONS

Quiet, exposed, diaphragm type, chrome plated closet Flushometer for either left or right hand supply and vitreous china wall hung water closet with the following features:

Flushometer and OPTIMA Plus® SMO Unit

- PERMEX® Plus Synthetic Rubber Diaphragm with Dual Filter Bypass
- ADA Compliant OPTIMA Plus® Battery Powered Infrared Sensor for automatic "No Hands" operation
- Chrome plated Infrared Sensor Housing
- Four (4) Size C batteries included
- · "Low Battery" flashing LED
- "User in View" flashing LED
- Infrared Sensor Range Adjustment Screw and Reset Button
- 1" I.P.S. Screwdriver Bak-Chek® Angle Stop
- Free spinning, Vandal Resistant Stop Cap
- High Back Pressure Vacuum Breaker Flush
 Connection with One-piece Bottom Hex Coupling Nut
- Spud Coupling and Flange for 1-1/2" Top Spud
- Sweat Solder Adapter with Cover Tube and Cast Wall Flange with Set Screw
- High copper, low zinc brass castings for dezincification resistance
- No external volume adjustment to ensure water conservation
- Stop Seat and Vacuum Breaker to be molded from PERMEX® rubber compound for chloramine resistance
- Valve Body, Tailpiece and Control Stop are in conformance with ASTM Alloy Classification for Semi-Red Brass. Valve shall be in compliance with the applicable sections of ASSE 1037.

Fixture

- · Wall hung vitreous china elongated bowl
- Siphon jet flushing action
- 1-1/2" I.P.S. top spud inlet
- 2 1/8" fully glazed trapway diameter
- · Integral flushing rim
- Water spot area 9 1/2" x 8 1/4"
- Mounting hardware, carrier and toilet seat not included
- Compatible with toilet seat models: Olsonite 10CT, Bemis 1955CT & Church Commercial 295CT
- Compatible with carrier model: Jay R. Smith 0210Y-M54
- Water closet shall be in compliance to the applicable sections of ASME A112.19.2/CSA B45.1

FEATURES

Automatic

Sloan OPTIMA Plus® SMO equipped Flushometers provide the ultimate in sanitary protection and automatic operation. There is no need for AC hookups or wall alterations. The Flushometer operates by means of a battery powered infrared sensor. Once the user enters the sensor's effective range and then steps away, the Side Mount Operator initiates the flushing cycle to flush the fixture.

Hygienic

User makes no physical contact with the Flushometer surface. Helps control the spread of infectious diseases. 24-hour Sentinel Flush keeps fixture fresh during periods of nonuse.

Economical

Automatic operation and a very low flush volume provides water savings over other flushing devices. Reduces maintenance and operation costs. Installation and battery replacement does not require turning off water to the valve.

Warranty

3 year (limited)





Sloan Valve Company is buying renewable energy certificates to meet 100% of the company's purchased electricity use at its Franklin Park. Illinois facility.

SLOAN

Sloan Valve Company 10500 Seymour Avenue Franklin Park, IL 60131

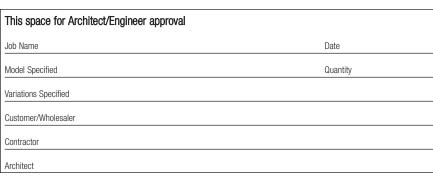
Phone: 1-800-9-VALVE-9 (982-5839)

or 1-847-671-4300

Fax: 1-800-447-8329 or 1-847-671-4380

www.sloanvalve.com

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Model

WETS 2050.1402-1.28 SMO

OPTIMA Plus® Systems Sensor Activated HET Flushometer and HET Wall Hung Water Closet

DESCRIPTION

Complete HET system with exposed, battery powered, sensor activated, Royal® OPTIMA Plus® SMO closet Flushometer and vitreous china wall hung Fixture.

Flush Cycle

Model WETS-2050.1402-1.28 SMO (1.28 gpf/4.8 Lpf)

ELECTRICAL SPECIFICATIONS

- Control Circuit
 Solid state, 6 VDC input
- OPTIMA Plus® Sensor Type
 Infrared convergence type object lock detection
- OPTIMA Plus® Sensor Range Nominal 8" – 54" (203 mm – 1372 mm), factory set at 24" (610 mm)
- Battery Type
 (4) Size C Alkaline
- (4) Size C AlkalineBattery Life
- 2 Years @ 3,000 flushes/month
- Indicator Lights
 User in view/low battery
- Operating Pressure 15 – 100 psi (104 – 689 kPa)

OPERATION



 A continuous, invisible light beam is emitted from the Object Lock Infrared Sensor.

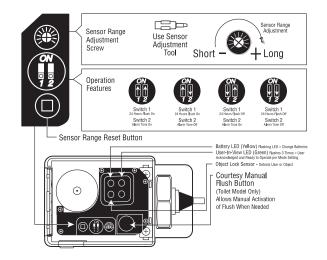


2. As the user enters the beam's effective range, 8" to 54" (203 mm - 1372 mm), the Object Lock Infrared Sensor senses the user.

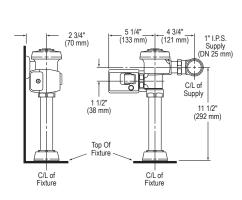


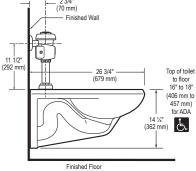
 When the user steps away from the Object Lock Infrared Sensor, the circuit initiates the flushing cycle to flush the fixture. The circuit then automatically resets and is ready for the next user.

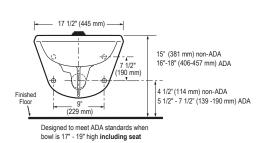
FUNCTION SETTINGS



DIMENSIONS/ROUGH-IN







SLOAN VALVE COMPANY • 10500 SEYMOUR AVENUE • FRANKLIN PARK, IL 60131

Phone: 1-800-9-VALVE-9 or 1-847-671-4300 • Fax: 1-800-447-8329 or 1-847-671-4380 • www.sloanvalve.com

SECTION 224000

PLUMBING FIXTURES

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - Fixture supports.
 - 2. Hot-water dispensers.
 - Water closets.
 - 4. Urinals.
 - 5. Lavatories.
 - 6. Showers.
 - 7. Sinks.
 - 8. Bath/whirlpools
 - 9. MOP sinks.
 - 10. Electric drinking fountains
 - 11. Garbage disposals
 - 12. Outdoor drinking fountains

1.2 DEFINITIONS

- A. ABS: Acrylonitrile-butadiene-styrene plastic.
- B. Accessible Fixture: Plumbing fixture that can be approached, entered, and used by people with disabilities.
- C. FRP: Fiberglass-reinforced plastic.
- D. PMMA: Polymethyl methacrylate (acrylic) plastic.
- E. PVC: Polyvinyl chloride plastic.
- F. Solid Surface: Nonporous, homogeneous, cast-polymer-plastic material with heat-, impact-, scratch-, and stain-resistance qualities.

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. LEED® Submittal:
 - Product Data for Credit: Documentation indicating flow and water consumption requirements.
- C. Shop Drawings: Diagram power, signal, and control wiring.

D. Operation and maintenance data.

1.4 QUALITY ASSURANCE

- 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. Regulatory Requirements: Comply with requirements in ICC A117.1, "Accessible and Usable Buildings and Facilities"; Public Law 90-480, "Architectural Barriers Act"; and Public Law 101-336, "Americans with Disabilities Act"; for plumbing fixtures for people with disabilities.
- C. Regulatory Requirements: Comply with requirements in Public Law 102-486, "Energy Policy Act," about water flow and consumption rates for plumbing fixtures.
- D. NSF Standard: Comply with NSF 61, "Drinking Water System Components--Health Effects," for fixture materials that will be in contact with potable water.
- E. Select combinations of fixtures and trim, faucets, fittings, and other components that are compatible.
- F. Comply with the following applicable standards and other requirements specified for plumbing fixtures:
 - Enameled, Cast-Iron Fixtures: ASME A112.19.1M.
 - 2. Porcelain-Enameled, Formed-Steel Fixtures: ASME A112.19.4M.
 - 3. Solid-Surface-Material Lavatories and Sinks: ANSI/ICPA SS-1.
 - 4. Stainless-Steel Residential Sinks: ASME A112.19.3.
 - 5. Vitreous-China Fixtures: ASME A112.19.2M.
 - 6. Water-Closet, Flush Valve: ASME A112.19.5.
 - 7. Water-Closet, Flushometer: ASSE 1037.
- G. Comply with the following applicable standards and other requirements specified for lavatory and sink faucets:
 - Backflow Protection Devices for Faucets with Side Spray: ASME A112.18.3M.
 - 2. Backflow Protection Devices for Faucets with Hose-Thread Outlet: ASME A112.18.3M.
 - 3. Diverter Valves for Faucets with Hose Spray: ASSE 1025.
 - 4. Faucets: ASME A112.18.1.
 - Hose-Connection Vacuum Breakers: ASSE 1011.
 - 6. Hose-Coupling Threads: ASME B1.20.7.
 - 7. Integral, Atmospheric Vacuum Breakers: ASSE 1001.
 - 8. NSF Potable-Water Materials: NSF 61.
 - 9. Pipe Threads: ASME B1.20.1.
 - 10. Sensor-Actuated Faucets and Electrical Devices: UL 1951.
 - 11. Supply Fittings: ASME A112.18.1.
 - 12. Brass Waste Fittings: ASME A112.18.2.
- H. Comply with the following applicable standards and other requirements specified for shower faucets:

- Backflow Protection Devices for Hand-Held Showers: ASME A112.18.3M.
- Combination, Pressure-Equalizing and Thermostatic-Control Antiscald Faucets: ASSE 1016.
- 3. Faucets: ASME A112.18.1.
- 4. Hand-Held Showers: ASSE 1014.
- 5. High-Temperature-Limit Controls for Thermal-Shock-Preventing Devices: ASTM F 445.
- 6. Hose-Coupling Threads: ASME B1.20.7.
- 7. Manual-Control Antiscald Faucets: ASTM F 444.
- 8. Pipe Threads: ASME B1.20.1.
- 9. Pressure-Equalizing-Control Antiscald Faucets: ASTM F 444 and ASSE 1016.
- Sensor-Actuated Faucets and Electrical Devices: UL 1951.
- 11. Thermostatic-Control Antiscald Faucets: ASTM F 444 and ASSE 1016.
- Comply with the following applicable standards and other requirements specified for miscellaneous fittings:
 - Atmospheric Vacuum Breakers: ASSE 1001.
 - 2. Brass and Copper Supplies: ASME A112.18.1.
 - 3. Dishwasher Air-Gap Fittings: ASSE 1021.
 - 4. Manual-Operation Flushometers: ASSE 1037.
 - 5. Plastic Tubular Fittings: ASTM F 409.
 - 6. Brass Waste Fittings: ASME A112.18.2.
 - 7. Sensor-Operation Flushometers: ASSE 1037 and UL 1951.
- J. Comply with the following applicable standards and other requirements specified for miscellaneous components:
 - 1. Dishwasher Air-Gap Fittings: ASSE 1021.
 - 2. Flexible Water Connectors: ASME A112.18.6.
 - Grab Bars: ASTM F 446.
 - 4. Hose-Coupling Threads: ASME B1.20.7.
 - 5. Hot-Water Dispensers: ASSE 1023 and UL 499.
 - 6. Off-Floor Fixture Supports: ASME A112.6.1M.
 - 7. Pipe Threads: ASME B1.20.1.
 - Plastic Toilet Seats: ANSI Z124.5.
 - Supply and Drain Protective Shielding Guards: ICC A117.1.
- K. ARI Standard: Comply with ARI's "Directory of Certified Drinking Water Coolers" for style classifications.
- L. ARI Standard: Comply with ARI 1010, "Self-Contained, Mechanically Refrigerated Drinking-Water Coolers," and with ARI's "Directory of Certified Drinking Water Coolers" for type and style classifications.
- M. ASHRAE Standard: Comply with ASHRAE 34, "Designation and Safety Classification of Refrigerants". Provide HFC 134a (tetrafluoroethane) refrigerant unless otherwise indicated.

2.1 FIXTURE SUPPORTS

- A. Water-Closet Supports, WC-2, WC-3, WC-4, WC-5 & WC-6:
 - Description: Combination carrier designed for mounting height of wall-mounting, water-closet-type fixture. Include single or double, vertical or horizontal, huband-spigot or hubless waste fitting as required for piping arrangement; faceplates; couplings with gaskets; feet; and fixture bolts and hardware matching fixture. Include additional extension coupling, faceplate, and feet for installation in wide pipe space.

B. Urinal UR-1 Supports:

- 1. Description: Type I, urinal carrier with fixture support plates and coupling with seal and fixture bolts and hardware matching fixture for wall-mounting, urinal-type fixture. Include steel uprights with feet.
- Accessible-Fixture Support: Include rectangular steel uprights.

C. Lavatory L-2 Supports:

- Description: Type II, lavatory carrier with concealed arms and tie rod for wall-mounting, lavatory-type fixture. Include steel uprights with feet.
- Accessible-Fixture Support: Include rectangular steel uprights.

2.2 HOT-WATER DISPENSERS

A. Hot-Water Dispensers:

- Description: Gooseneck spout with lever-handle, flow control, household-type dispenser with instant on-off control; insulated, corrosion-resistant-metal storage tank that is open to atmosphere; electric heating element; chrome-plated faucet or spout; removable strainer; thermostat control for water temperature up to 190 deg F (88 deg C); and thermal-overload protection.
 - a. Storage Tank Capacity: 0.5 gal. (1.5 L).
 - b. Heating Element: 750 W minimum, 115-V ac.

2.3 GARBAGE DISPOSALS

A. Garbage Disposals:

- Description: Batch-feed household, food-waste disposer. Include reset button; wall switch; corrosion-resistant chamber with jam-resistant, cutlery- or stainlesssteel grinder or shredder; NPS 1-1/2 (DN 40) outlet; quick-mounting, stainlesssteel sink flange; antisplash guard; and combination cover/stopper.
 - Model: Sound-insulated chamber and stainless-steel outer shell.
 - b. Motor: 115-V ac, 1725 rpm, ½ hp with overload protection.

2.4 WATER CLOSETS

A. Bariatric Resident Water Closet (WC-1):

- 1. Description: Floor mounted, floor-outlet, vitreous-china fixture designed for flushometer valve operation.
- 2. Style: One piece.
 - a. Bowl Type: White elongated, siphon jet. 17-1/2" high, 1-1/2" top spud
 - b. Supply Fitting: Exposed, chrome plated polished flush valve with screwdriver stop, adjustable tailpiece, integral vacuum breaker, spud escutcheons with 1" IPS supply and ½" IPS supply for wall mounted bedpan washing system. 1.6 gal/flush consumption.
 - c. Seat: Solid plastic, elongated open front white closet seat less cover. Provide concealed check and S.S. hinge posts.
 - d. Bedpan cleanser.

B. Accessible Water Closet (WC-2):

- Description: Wall hung, vitreous-china fixture designed for flushometer valve operation.
- 2. Style: One piece.
 - a. Bowl Type: White elongated, siphon jet. 17-1/2" high, 1-1/2" top spud.
 - b. Supply Fitting: Exposed, battery-powered electronic, 1.6 gpm flush valve with screwdriver stop, adjustable tailpiece, and 1" IPS supply.
 - c. Seat: Solid plastic, elongated open front white closet seat less cover. Provide concealed check and S.S. hinge posts.

C. Resident Water Closet (WC-3):

- 1. Description: Wall hung, vitreous-china fixture designed for flushometer valve operation.
- 2. Style: One piece.
 - a. Bowl Type: White elongated, siphon jet design. 17-1/2" high, 1-1/2" top spud, slotted rim.
 - b. Supply Fitting: Exposed, chrome plated polished flush valve with screwdriver stop, adjustable tailpiece, integral vacuum breaker, spud escutcheons with 1" IPS supply and ½" IPS supply for wall mounted bedpan washing system. 1.6 gal/flush consumption.
 - c. Seat: Solid plastic, elongated open front white closet seat less cover. Provide concealed check and S.S. hinge posts.
 - d. Bedpan Cleanser.

D. Resident Water Closet (WC-4)

- Description: Wall hung, vitreous-china fixture designed for flushometer valve operation.
- Style: One piece.
 - Bowl Type: White elongated, siphon jet design. 17-1/2" high, spud, slotted rim.

- b. Supply Fitting: Exposed, chrome plated polished flush valve with screwdriver stop, adjustable tailpiece, integral vacuum breaker, spud escutcheons with 1" IPS supply and ½" IPS plugged valve supply for only for future wall mounted bedpan washing system. 1.6 gal/flush consumption.
- Seat: Solid plastic, elongated open front white closet seat less cover.
 Provide concealed check and S.S. hinge posts.

E. Public & Staff Accessible Water Closet (WC-5):

- 1. Description: Wall hung, vitreous-china fixture designed for flushometer valve operation.
- 2. Style: One piece.
 - a. Bowl Type: White elongated, siphon jet. 17-1/2" high, 1-1/2" top spud.
 - b. Supply Fitting: Exposed, battery-powered electronic, 1.6 gpm flush valve with screwdriver stop, adjustable tailpiece, and 1" IPS supply.
 - c. Seat: Solid plastic, elongated open front white closet seat less cover. Provide concealed check and S.S. hinge posts.

F. Public & Staff Non-accessible Water Closet (WC-6):

- Description: Wall hung, vitreous-china fixture designed for flushometer valve operation.
- 2. Style: One piece.
 - a. Bowl Type: White elongated, siphon jet. 15" high, 1-1/2" top spud.
 - b. Supply Fitting: Exposed, battery-powered electronic, 1.6 gpm flush valve with screwdriver stop, adjustable tailpiece, and 1" IPS supply.
 - c. Seat: Solid plastic, elongated open front white closet seat less cover. Provide concealed check and S.S. hinge posts.

G. Accessible Water Closet (WC-7):

- 1. Description: Wall hung, vitreous-china fixture designed for flushometer valve operation.
- 2. Style: One piece.
 - Bowl Type: White elongated, siphon jet. 17-1/2" high, 1-1/2" top spud.
 - b. Supply Fitting: Exposed, battery-powered electronic, 1.6 gpm flush valve with screwdriver stop, adjustable tailpiece, and 1" IPS supply.
 - Seat: Solid plastic, elongated open front white closet seat less cover. Provide concealed check and S.S. hinge posts.

H. Accessible Water Closet (WC-8):

- Description: Floor mount, vitreous-china fixture designed for flushometer valve operation.
- 2. Style: One piece.
 - a. Bowl Type: White elongated, siphon jet. 17-1/2" high, 1-1/2" top spud.
 - b. Supply Fitting: Exposed, battery-powered electronic, 1.6 gpm flush valve with screwdriver stop, adjustable tailpiece, and 1" IPS supply.
 - c. Seat: Solid plastic, elongated open front white closet seat less cover. Provide concealed check and S.S. hinge posts.

Resident Water Closet (WC-9):

- Description: Floor mount, vitreous-china fixture designed for flushometer valve operation.
- 2. Style: One piece.
 - a. Bowl Type: White elongated, siphon jet design. 17-1/2" high, 1-1/2" top-spud, slotted rim.
 - b. Supply Fitting: Exposed, chrome plated polished flush valve with screwdriver stop, adjustable tailpiece, integral vacuum breaker, spud escutcheons with 1" IPS supply and ½" IPS supply for wall mounted bedpan washing system. 1.6 gal/flush consumption.
 - c. Seat: Solid plastic, elongated open front white closet seat less cover. Provide concealed check and S.S. hinge posts.
 - d. Bedpan Cleanser.

J. Resident Water Closet (WC-10)

- 1. Description: Floor mount, vitreous-china fixture designed for flushometer valve operation.
- 2. Style: One piece.
 - a. Bowl Type: White elongated, siphon jet design. 17-1/2" high, 1-1/2" top spud, slotted rim.
 - b. Supply Fitting: Exposed, chrome plated polished flush valve with screwdriver stop, adjustable tailpiece, integral vacuum breaker, spud escutcheons with 1" IPS supply and ½" IPS plugged valve supply for only for future wall mounted bedpan washing system. 1.6 gal/flush consumption.
 - c. Seat: Solid plastic, elongated open front white closet seat less cover. Provide concealed check and S.S. hinge posts.

2.5 URINALS

A. Urinal (UR-1):

- 1. Description: White, Wall hung, siphon jet, vitreous-china fixture designed for flushometer valve operation.
- 2. Style: One piece.
 - a. 14-1/4" elongated rim at 24" AFF.
 - b. Supply Fitting: Exposed, battery-powered, electronic 0.125 gpm flush valve with screwdriver stop (as required to achieve LEED Credit 3.2 for 30% Water Use Reduction), adjustable tailpiece, spud escutcheons and 1" IPS supply.

2.6 LAVATORIES

A. Resident Lavatory (L-1):

- Description: Barrier-free, self-rimming, vitreous-china for full wheelchair accessibility in a conventional countertop installation.
- 2. Style: One piece, 26-1/4"x20-1/8" O.A. dimensions.
 - a. 20"x13" bowl with pop-up drain outlet in upper right hand corner.
 - Supply Fitting: Deck mounted faucet, 8" centers, blade handles, 1.0 gpm 'Softflo' outlet (as required to achieve LEED Credit 3.2 for 30% Water Use Reduction).

B. Public & Staff Lavatory (L-2):

- 1. Description: Wall hung, vitreous-china with front overflow, single-hole punch for supply fitting.
- 2. Style: One piece, 20" x 18" O.A. dimensions.
 - a. 15"x10" bowl with grid outlet at rear of bowl.
 - b. Supply Fitting: Single hole, deck mount, battery powered, electronic fitting with dual beam infrared sensor and user adjustable temperature control mixer. Chrome plated cast brass spout with 4" cover plate. 0.5 gpm spray outlet.

C. Public & Staff Lavatory (L-3):

- 1. Description: Barrier-free, self-rimming, vitreous-china for full wheelchair accessibility in a conventional countertop installation.
- 2. Style: One piece, 20" x 17" O.A. dimensions.
 - Grid outlet at rear of bowl.
 - Supply Fitting: Single hole, deck mount, battery powered, electronic fitting
 with dual beam infrared sensor and user adjustable temperature control
 mixer. Chrome plated cast brass spout with 4" cover plate. 0.5 gpm spray
 outlet.

2.7 SHOWERS

- A. Resident Shower (SH-1):
 - All bronze & stainless steel, pressure-balance mixing valve with single lever control, integral service stops, chrome-plated brass ball joint adjustable spray shower head, chrome-plated shower arm and flange, wall/hand shower head with flexible metal hose, 30-inch slide bar, diverter valve with volume control, wall connection and flange.

B. Staff Shower (SH-2):

 All bronze & stainless steel, pressure-balance mixing valve with single lever control, integral service stops, chrome-plated brass ball joint adjustable spray shower head, chrome-plated shower arm and flange.

2.8 SINKS

A. Sink: S-1:

- 1. Description: One-bowl, counter-mounting, stainless-steel sinks.
 - a. Overall Dimensions: 19-1/2" x 22"
 - b. Metal Thickness: 18 Gauge, type 304.
 - c. Bowl:
 - 1) Dimensions: 14" x 18" x 6" deep.
 - 2) Drain: 3-1/2-inch (89-mm) grid.
 - a) Location: Center of bowl.
 - d. Supply Fitting: Single hole, deck mount, battery powered, electronic fitting with dual beam infrared sensor and user adjustable temperature control mixer. Chrome plated cast brass spout with 8" cover plate. 1.5 gpm spray outlet.

B. Sink: S-2:

- 1. Description: One-bowl, residential, counter-mounting stainless steel kitchen sink.
 - a. Overall Dimensions: 19-1/2" x 22"
 - b. Metal Thickness: 18 Gauge, type 304
 - c. Bowls:
 - 1) Dimensions: 14" X 18" X 6" deep.
 - Supply Fitting: Chrome Plate Single Lever, 8" long swing spout with side spray.
 - e. Rinse Hose: Required
 - f. Hot Water Dispenser: Required
 - g. Garbage Disposal: Required.

C. Sink: S-3

- 1. Description: One-bowl, counter-mounting stainless steel sink.
 - a. Overall Dimensions: 19-1/2" x 22"
 - b. Metal Thickness: 18 gauge, type 304
 - c. Bowl:
 - 1) Dimensions: 14" x 18" x 6" deep
 - 2) Drain: 3-1/2" grid
 - a) Location: Back of bowl
 - d. Supply Fitting: Deck mounted single hole with rigid swing gooseneck spout, and wrist blade handles.
 - e. Eye/Face Wash: Sink mounted polished chrome-plated brass single action swing activated eye/face wash with ABS heads. 2.5 gpm flow control, 1/2" supply.

D. Sink: S-4

Description: One-bowl, counter-mounting enameled cast iron laundry sink

- a. Overall Dimensions: 18" x 24" x 8.25" deep
- b. Bowl:
 - 1) Dimension: 16" x 21"
 - 2) Drain 3-1/2" grid
 - a) Location: Back of bowl
- Supply Fitting: Deck mounted single hole with rigid swing gooseneck spout, and wrist blade handles.

E. Sink: S-5

- 1. Description: Enameled cast iron shampoo bowl
 - a. Bowl: Custom neck opening for shampooing, extra wide inside front.
 - b. Supply Fitting: DA fixture with spray hose.
 - c. Vacuum Breaker.

F. Sink: S-6:

- 1. Description: One-bowl, counter-mounting stainless steel sink.
 - a. Overall Dimensions: 22" x 25"
 - Metal Thickness: 18 Gauge, type 304
 - c. Bowls:
 - 1) Dimensions: 15-3/4" X 21" X 6" deep.
 - 2) Drain: 31/2" (89-mm) opening.
 - a) Location: Rear of bowl.
 - d. Supply Fitting: Chrome Plate Single Lever, 8" long swing spout with side spray.
 - e. Hot Water Dispenser: Required
 - f. Garbage Disposal: Required.

G. Sink: S-7:

- 1. Description: Two-bowl, counter-mounting stainless steel sink.
 - a. Overall Dimensions: 22" x 33"
 - b. Metal Thickness: 18 Gauge, type 304
 - c. Bowls:
 - 1) Dimensions: 14" X 16" X 8" deep.
 - 2) Drain: 31/2" (89-mm) crumb cup.
 - a) Location: Rear of bowls.
- Supply Fitting: Single hole, deck mount, 6V battery, electronic fitting with dual beam infrared sensor and user adjustable temperature control mixer. Chrome plated cast brass spout with 4" cover plate.
 5 gpm spray outlet.

H. Sink: S-8:

- 1. Description: One-bowl, residential, counter-mounting stainless steel sink.
 - a. Overall Dimensions: 19"x18"
 - b. Metal Thickness: 18 Gauge, type 304
 - c. Bowl:
 - 1) Dimensions: 16" X 11.5" X 6" deep.
 - d. Supply Fitting: Single hole, deck mount, 6V battery, electronic fitting with dual beam infrared sensor and user adjustable temperature control mixer. Chrome plated cast brass spout with 4" cover plate. 2.0 gpm spray outlet

I. Sink: S-9:

- Description: One-bowl, residential, counter-mounting stainless steel sink.
 - a. Overall Dimensions: 19"x18""
 - b. Metal Thickness: 18 Gauge, type 304
 - c. Bowls:
 - 1) Dimensions: 16" X 11.5" X 6" deep.
 - d. Supply Fitting: Chrome Plate Single Lever, 8" long swing spout with side spray.
 - e. Rinse Hose: Required
 - f. Hot and Cold Water Dispenser: Required

2.9 BATH/WHIRLPOOLS

- A. Bath-Whirlpool, Arjo, Primo, Height Adjustable, or equal (WT-1).
 - 1. Electro-hydraulic lifting mechanism, emergency lowering, hygienic whirlpool system, automatic whirlpool disinfection, hydrosound, autofill with three pre-set fill levels to choose from.
- B. Bath-Whirlpool, Arjo, Freedom, Roll up Door Accessible, or equal (WT-2).
 - Electro-hydraulic lifting mechanism, emergency lowering, hygienic whirlpool system, automatic whirlpool disinfection, hydrosound, autofill with three pre-set fill levels to choose from.

2.10 MOP SINKS

- A. Mop Sink (MS-1):
 - 1. Description: Floor-mounting, enameled, cast-iron fixture with roll-rim with back and rim guard on front and sides.
 - a. Size: 28 by 28 inches.
 - b. Color: White.

- Faucet: Wall mounted vacuum breaker spout with pail hook, wall brace & 3/4 inch male hose threaded outlet.
- d. Drain: Grid with NPS 3 (DN 80) outlet.
- e. Trap Standard: NPS 3 (DN 80) enameled, cast iron with cleanout and floor flange.

2.11 ELECTRIC DRINKING FOUNTAINS

A. Drinking Fountain (DF-1):

- 1. Description: Hi-Lo, 18 gauge, type 304 stainless steel, wall hung electric drinking fountain with round sculpted bowls.
 - a. Bubblers: Polished chrome-plated forged brass integral basin shank, shielded, anti-squirt vandal resistant bubbler head.
 - b. Valve: Push activated, front accessible for stream adjustment and servicing.
 - c. Evaporator Chiller: R-134a refrigerant, hermetically sealed compressor for 120V, 60 Hz operation, thermostatically controlled for 50 deg F.

2.12 OUTDOOR DRINKING FOUNTAINS

- A. Outdoor Drinking Fountain: (Provide at each Therapeutic Garden per Chapter 2 site, civil, landscape and utilities)
 - 1. Description: Accessible, Outdoor installation
 - a. Material: Powder-coated Steel, to blend with architecture.
 - b. Receptor: 18 ga. Stainless-steel, overlaps pedestal. Working parts must be accessible through bowl of fountain.
 - c. Mounting: Direct Burial or Surface Mount with appropriate carrier and bolts.
 - d. Bubblers: Heavy duty with integral shield.
 - e. Control: Push bar with non-cartridge stainless steel O-Ring valve, washerless.
 - f. Supply: Nylobraid (non-plastic) tubing with Stainless steel fittings and strainer. Supply line must stop above grade.
 - g. Drain: Connect to sewer. Grid with NPS 1-1/2 minimum horizontal waste and trap complying with ASME A112.18.2.
 - h. Pedestal: One piece weld construction, steel, 3/16" wall thickness. Pedestal must have an access door.
 - i. Provide shut off valve for winterizing.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Assemble plumbing fixtures, trim, fittings, and other components according to manufacturers' written instructions.
- B. Install fixtures level and plumb according to roughing-in drawings.

- C. 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.
- D. Install trap and tubular waste piping on drain outlet of each fixture to be directly connected to sanitary drainage system.
- E. Install tubular waste piping on drain outlet of each fixture to be indirectly connected to drainage system.
- F. Install flushometer valves for accessible water closets and urinals with handle mounted on wide side of compartment. Install other actuators in locations that are easy for people with disabilities to reach.
- G. 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.
- H. Install faucet flow-control fittings with specified flow rates and patterns in faucet spouts if faucets are not available with required rates and patterns. Include adapters if required.
- I. Install traps on fixture outlets.
 - 1. Exception: Omit trap on fixtures with integral traps.
 - 2. Exception: Omit trap on indirect wastes, unless otherwise indicated.
- J. Install disposer in outlet of each sink indicated to have disposer.
- K. Install dishwasher air-gap fitting at each sink indicated to have air-gap fitting. Connect inlet hose to dishwasher and outlet hose to disposer.
- 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. Escutcheons are specified in Division 22 Section "Escutcheons for Plumbing Piping."
- M. Seal joints between fixtures and walls, floors, and countertops using sanitary-type, onepart, mildew-resistant silicone sealant. Match sealant color to fixture color. Sealants are specified in Division 07 Section "Joint Sealants."

3.2 CONNECTIONS

- A. Piping installation requirements are specified in other Division 22 Sections. Drawings indicate general arrangement of piping, fittings, and specialties.
- B. Connect fixtures with water supplies, stops, and risers, and with traps, soil, waste, and vent piping. Use size fittings required to match fixtures.
- C. Connect wiring according to Division 26 Section "Low-Voltage Electrical Power Conductors and Cables."

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