

# 15440 - PLUMBING FIXTURES

## City of San Diego, CWP Guidelines

### PART 1 -- GENERAL

#### 1.1 WORK OF THIS SECTION

- A. The WORK of this Section includes providing plumbing fixtures and trim.

#### 1.2 RELATED SECTIONS

- A. The WORK of the following Sections applies to the WORK of this Section. Other Sections of the Specifications, not referenced below, shall also apply to the extent required for proper performance of this WORK.

- 1. Section 07920 Sealants and Caulking
- 2. Section 15410 Plumbing Piping

#### 1.3 CODES

- A. The WORK of this Section shall comply with the current editions of the following codes as adopted by the City of San Diego Municipal Code:

- 1. Uniform Plumbing Code
- 2. California Code of Regulations, Title 24

#### 1.4 SPECIFICATIONS AND STANDARDS

- A. Except as otherwise indicated, the current editions of the following apply to the WORK of this Section:

- 1. ANSI A112.6.1 Supports for Off-the-Floor Plumbing Fixtures for Public Use
- 2. ANSI A112.18.1 Finished and Rough Brass Plumbing Fixture Fittings
- 3. ANSI A112.19.1 Enameled Cast Iron Plumbing Fixtures
- 4. ANSI A112.19.2 Vitreous China Plumbing Fixtures
- 5. ANSI A112.19.4 Porcelain Enameled Formed Steel Plumbing Fixtures
- 6. ANSI A112.19.5 Trim for Water-Closet Bowls, Tanks, and Urinals
- 7. ANSI Z124.2 Gel-Coated Glass-Fiber Reinforced Polyester Resin Shower Receptor and Shower Stall Units
- 8. ANSI Z358.1 Emergency Eye Wash and Shower Equipment
- 9. ARI 1010 Drinking Fountains and Self-Contained Mechanically Refrigerated Drinking Water Coolers

1.5 SHOP DRAWINGS AND SAMPLES

- A. The following shall be submitted in compliance with Section 01300:
  - 1. Product data showing fixtures, sizes, [rough-in dimensions,] utility sizes, trim, and finishes.

1.6 QUALITY ASSURANCE

- A. **Fixtures:** Multiple fixtures shall be by the same manufacturer for each product type indicated.
- B. **Trim:** Trim shall be by the same manufacturer for each product type indicated

1.7 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. **Delivery of Materials:** Products shall be delivered in original, unbroken packages, containers, or bundles bearing the name of the manufacturer.
- B. **Storage:** Products shall be carefully stored in a manner that will prevent damage and in an area that is protected from the elements.
- C. **Protection:** Temporary caps shall be provided.
- D. **Protection of Finishes:** Heavy paper shall be pasted on lavatories, water closets and sinks.

**PART 2 -- PRODUCTS**

2.1 GENERAL

- A. Plumbing fixtures shall be new first-quality products and shall be manufactured for the intended usage. Materials, capacities, features, finishes, and manufacturers shall comply with the indicated requirements and shall be compatible with elements of the work to which they relate or connect.
- B. Plumbing fixtures shall be white finish unless otherwise indicated. All exposed brass, faucets, wastes, traps, etc., shall be chrome-plated. Each fixture shall be provided with individual stops and shall be anchored firmly to the building wall or floor.

2.2 FIXTURE SCHEDULE

- A. Following fixture type following shall comply with the indicated requirements:

Dwg. Callout	Fixture Type	Description
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WC-1	Water Closet (wall-hung)	Water Closet: elongated wall-mounted, siphon jet bowl, solid, white, plastic, open front seat, 1-inch chrome-plated flush valve and escutcheon, cast-iron chair-carrier (with 1-1/2-inch water supply connection).
WC-2	Water Closet (tank-type)	Water Closet: wall-mounted with elongated siphon jet bowl, low silhouette flush tank with cover, solid, white, plastic seat and chrome-plated angle supply with wheel handle stop.
UR	Urinal	Urinal: wall-hung vitreous china bowl, with extended shields, 3/4-inch top spud, chair carrier, 3/4-inch chrome-plated flush valve and escutcheons (with 1-inch water supply connection).
LAV-1	Lavatory (wall hung)	Lavatory: vitreous china with back, size 20 x 18-inch complete with wall carrier, chrome-plated combination supply with angle stops and pop-up fitting with aerator, and a 1-1/4-inch, chrome-plated "P" trap with chrome-plated escutcheon.
LAV-2	Lavatory (counter top)	Lavatory: [acid-resistant porcelain enameled cast-iron] [vitreous china [oval] [circular] countertop mounted, complete with ring, chrome-plated combination supply with angle stops and pop-up waste fitting with aerator and "P" trap.
LAV-3	Lavatory (wall-hung) - for handicapped	Lavatory: vitreous china, size 20 x 27-inch complete with wall carrier, chrome-plated wrist handle combination supply and pop-up fitting with aerator, a 1-1/4-inch, chrome-plated "P" trap with chrome-plated escutcheon, and chrome-plated angle stops with escutcheons. (Exposed portion of waste pipe to be insulated.)
SS	Service sink (wall-hung)	Service Sink: acid-resisting white enameled cast-iron, with integral back, size 22 x 18-inch, with chair carrier, 3-inch "P" trap standard, [stainless steel] [chrome plated] strainer, and chrome-plated combination faucet with integral tops, pail-hook, vacuum breaker spout, and wrist handles.
MS	Mop Sink	Mop Sink: Floor-mounted, porcelain-enameled cast-iron, with integral back, size 28 x 28-inch with rim guard, drain channels, 3-inch outlet with "P" trap and stainless steel strainer, and

chrome-plated service sink faucet with vacuum breaker, hose, and hose bracket.

WF-1	Wash Fountain	Semi-circular, pre-cast, terrazzo wash fountain, 54 inches in diameter, suitable for handicapped, with terrazzo column and stainless steel access panel, low profile operating valves, concealed soap tank, supplies and trap, water saver stainless steel spray head, combination stops, strainer and check valves, and thermostatic mixing valve.
S-1	Kitchen Sink	18-gauge stainless steel countertop sink with back ledge and clamps, 16 x 11-1/2 x 7-1/2 inches deep (inside), with rounded corners, 1-1/2-inch brass "P" trap, single-handle faucet, and sound-insulated garbage grinder.
S-2	Single Sink	18-gauge stainless steel countertop sink with back ledge and clamps, 16 x 11-1/2 x 7-1/2 inches deep (inside), with rounded corners, 1-1/2-inch brass "P" trap, stainless steel basket strainer and single-handle faucet.
S-3	Double Sink	18-gauge stainless steel countertop two-compartment sink with back ledge and clamps, rounded corners, overall size: 42 x 21 x 7-1/2 inches deep, with stainless steel basket strainers, 1-1/2-inch brass "P" trap, and single-handle faucet with swing spout.
S-4	Laboratory Sink (light duty)	18-gauge stainless steel sink, size 16-7/8 x 14 x 10 inches deep, with rounded corners, clamps, basket strainer, "P" trap, and gooseneck wrist-handle faucets with vacuum breakers, hot and cold.
SH-1	Shower	The shower stall fixtures and fittings shall be for a tiled shower, with single handle 1/2-inch chrome-plated thermostatic mixing valve, including the shower head and arm.
SH-2	Shower (for handicapped)	The shower stall fixtures and fittings shall be for a tiled shower, with single handle 1/2-inch chrome-plated, balanced-pressure, non-scaled mixing valve, including vacuum breaker, shower head and arm, with hose on wall-mounted slide bar, all chrome-plated.
DS-1	Drench Shower (and eye wash)	The emergency drench showers, not subject to freezing, with shower head, self-closing manual

valve, handle, eye wash with stainless steel bowl and galvanized drain, and 1-1/4-inch supply.

DS-2	Drench Shower and Eye Wash (non-freeze type)	Emergency drench showers located in exposed areas outside of buildings subject to freezing with shower head, self-closing manual valve, eye wash and 1-1/4-inch supply.
DS-3	Drench Shower, only (non-freeze type)	Wall-mounted, with shower head and extended non-freeze valve for push operation, with 1-1/4-inch supply.
DF-1	Drinking Fountain (semi-recessed)	Semi-recessed drinking fountain of stainless steel, wall-mounted unit, with vinyl-coated apron, including refrigeration unit and mounting frame. Units shall have a capacity of 15 gph of 50-degree F water at an inlet and room temperature of 70 degrees F, suitable for 120-volt, single-phase, 60-Hz power supply with 1-1/4-inch P-trap and stop.
DF-2	Drinking Fountain (with separate chiller)	Statuary bronze wall-mounted fixture with 1-1/4-inch P-trap, stop and remote chiller, suitable for 120-volt, single-phase, 60-Hz power supply.
DF-3	Drinking Fountain (wall-mounted, flush)	Stainless steel, flush wall-mounted with vinyl cabinet, integral chiller, capacity 13 gph of 50-degree F water at 90 degrees F inlet and room temperature, suitable for 120-volt, single-phase, 60-Hz power supply with 1-1/4-inch P-trap and stop.
DF-4	Drinking Fountain	Floor-mounted fountain with stainless steel cabinet, foot pedal and integral chiller, capacity 14.3 gph of 50-degree water at standard conditions suitable for 120-volt, single-phase, 60-Hz with 1-1/2 inch P-trap and stop.
DF-5	Drinking Fountain	Wall-mounted, stainless steel cabinet (for handicapped) for wheelchairs with push bar, bubbler, integral chiller with a capacity of 7.5 gph of 50-degree F water at 90 degrees F ambient temperature. suitable for 120-volt, single-phase, 60-Hz power supply, with 1/4-hp compressor with 1-1/4-inch P-trap and stop.
EW-1	Eye-Wash Fountain	Stainless steel bowl, pipe-mounted, with push-type ball valve, chrome-plated twin heads, flow control, and stop.
EW-2	Eye-Wash Fountain (non-freeze type)	Stainless steel bowl, pipe-mounted, with chrome-

plated twin head, foot-operated, non-freeze valve, and stop.

EW-3            Lab Eye-Wash  
(deck type)            Deck-mounted with 1/2-inch supply, stop, and  
6 feet of hose.

## 2.3    FIXTURES FOR HANDICAPPED PERSONS

- A.    Where indicated, fixtures for handicapped users shall comply with the California Code of Regulations, Title 24.

## 2.4    MANUFACTURERS

- A.    Fixtures, of the type or model indicated, shall be manufactured by one of the following (or equal). Fixtures not listed below shall be manufactured by Crane Co., Kohler, American Standard, or equal.

1.    Drench Shower (and eye wash):

HAWS Model No. 8300  
Western Drinking Fountains, Inc. Model [9301] [9304] [   ]

2.    Drench Shower and Eye Wash (non-freeze type):

HAWS Model No. [8365-EWFP] [8300-FP] [   ]  
Western Drinking Fountains, Inc. Model 9306SS

3.    Drench Shower (non-freeze type):

HAWS Model No. 8111-FP  
Western Drinking Fountains, Inc. Model 856

4.    Drinking Fountain (semi-recessed):

HAWS Model HWR-8/SRC-8A  
Sunroc-Western Corp., Model No. SRC-8A

5.    Drinking Fountain (with separate chiller):

Filtrine No. 115-M2BW  
HAWS Model No. 1000-HR2-5  
Western Drinking Fountains, Inc. Model 770-B/SR2-5

6.    Drinking Fountain (wall-mounted, flush):

HAWS Model HWS-13  
Sunroc-Western Corp., Model No. CSA-14

7.    Drinking Fountain:

HAWS Model HF-1455  
Sunroc-Western Corp., Model No. NSF-14

8. Handicapped Fountains

Elkay EHF-8  
Haws HWC-8  
Halsey Taylor WC7A-1

9. Eye Wash Fountain:

HAWS Model No. 7461  
Western Drinking Fountains, Inc. Model 761

10. Eye Wash Fountain (foot operated):

HAWS Model No. 7430-FP  
Western Drinking Fountains, Inc. Model 462

11. Lab Eye Wash (deck type):

HAWS Model No. 8901  
Western Drinking Fountains, Inc. Model 901

### **PART 3 -- EXECUTION**

#### **3.1 INSTALLATION**

- A. Fixtures shall be installed with trap, easily removable for servicing and cleaning, and vented in accordance with the applicable plumbing code.
- B. The WORK of this Section includes providing chrome-plated rigid or flexible supplies to fixtures with angle stops, reducers, and escutcheons.
- C. Components shall be installed level and plumb. Supplies and wastes shall be centered on or between the wall tiles.
- D. Fixtures shall be installed and secured in place with [wall supports] [wall carriers] and bolts.
- E. Fixtures shall be sealed to wall and floor surfaces with sealant complying with Section 07920. Color shall match fixture.
- F. Fixtures shall be mounted to the heights listed in Title 24 of the California Code of Regulations.

#### **3.2 ADJUSTING AND CLEANING**

- A. Stops or valves shall be adjusted for intended water flow rate to fixtures without splashing, noise, or overflow.
- B. Plumbing fixtures and equipment shall be cleaned.
- C. Water closets shall be solidly attached to chair carriers.

\*\* END OF SECTION \*\*