# Housing and Dining Facilities (HDS) has adopted amendments for all HDS facilities. Confirm applicable standards with Project Representative on a per Project basis.

**Housing and Dining Services takes the following exceptions highlighted in Gray.**

**DIVISION 22 – PLUMBING**

# 22 05 00 – COMMON WORK RESULTS FOR PLUMBING

1. Meters (Non–Utility) and Gages for Plumbing Piping:

3. Discussion:

e. HDS: Install isolation valves on all riser stacks serving residential units.

# 22 10 00 – PLUMBING PIPING

i. HDS: No Foreign copper piping or fittings

# 22 11 00 – FACILITY WATER DISTRIBUTION

1. Domestic and Industrial Water Piping (above grade):
   1. Acceptable Products:

c. HDS: Larger than 2.5” Type-L copper with brazed fittings

d. HDS: For 2” and under PEX is acceptable in residential dwellings or sleeping units.

* + - 1. PEX pipe shall be color coded, RED for domestic hot water and BLUE for domestic cold water.

e. HDS: For 4” or smaller, Viego press fittings or Nibco press fittings.

f. HDS: Aquatherm and HDPE are acceptable (see HDS acceptable products above)

C. Domestic and Industrial Water Piping Specialties – Hose Bibbs and Wall Hydrants:

3. Discussion:

f. HDS: Commercial kitchen application will have tempered water hose connection for cleaning.

E. Domestic and Industrial Water Circulation Pumps:

* 1. Acceptable Products:

e. HDS: Weil

* 1. Products Not Allowed:

b. HDS: Armstrong and Bell & Gossett

* 1. Discussion:

c. HDS: All pumps shall be wet rotor type.

# 22 13 00 – FACILITY SANITARY SEWERAGE

1. Sanitary Waste and Vent Piping:

2. Products not Allowed:

b. HDS: Foreign-made piping and fittings

C. Sanitary Waste Piping Specialties – Floor Drains:

* 1. Discussion:

a. All restrooms shall have floor drains with positive slope to the drain.

ii. HDS: Does not apply to residential restrooms.

E. Sanitary Waste Pumps and Pump Stations:

3. Discussion:

h. HDS: Must be grinder style pumps

# 22 34 00 – FUEL–FIRED DOMESTIC WATER HEATERS

1. Instantaneous Tankless Gas Water Heaters:
   1. Acceptable Products:

c. HDS: Nortiz

d. HDS: Wel/Melain

3. Discussion:

g. HDS: Redundancy

1. Gas–Fired Storage Tank Water Heaters:

2. Products not Allowed:

b. HDS: Aerco

# 22 35 00 – DOMESTIC WATER HEAT EXCHANGERS

B. Domestic Instantaneous Heating Water–to–Hot Water Heat Exchangers:

2. Products not Allowed:

b. HDS: Aerco Smartplate

# 22 42 00 – COMMERCIAL PLUMBING FIXTURES

1. Water Closets and Urinals:
   1. Acceptable Products:

d. HDS: Sloan

* 1. Products not Allowed:

b. HDS: Mansfield, Moen

1. Lavatories and Sinks:
   1. Acceptable Products:
      1. Lavatories:

iii. HDS: Sloan

* 1. Products not Allowed:

b. HDS: American Standard, Just, Dura Top, Toto, Mansfield, Moen

* 1. Discussion:

f. HDS: Enameled steel in residential restroom

1. Showers:
   1. Acceptable Products:

b. HDS: American Standard, Kohler, Delta, Zurn, Chicago, Sloan

* 1. Products not Allowed:

b. HDS: Toto, Mansfield, Moen, Crane

1. Disposals:

2. Products not Allowed:

b. HDS: Toto, Mansfield, Moen

1. Faucets and Trim:
   1. Acceptable Products:
      1. Lavatory Faucets:

vi. HDS: Delta

vii. HDS: Sloan

c. Trim:

vi. HDS: Sloan

* 1. Products not Allowed:

b. HDS: Mansfield

c. HDS: Moen

d. HDS: T&S

* 1. Discussion:

g. HDS: All faucets will be commercial grade

h. HDS: Integrated check valves on all faucets

1. Flushometers:
   1. Discussion:
      1. All flushometer valves shall be manually operated.

ii. HDS: All flushometers shall be autosensing with manual override on all public and communal water closet and urinals. (Diaphragm style)

# 22 47 00 – DRINKING FOUNTAINS AND WATER COOLERS

1. Drinking Fountains:

3. Discussion:

k. HDS: Water coolers shall have a “Bottle” filling valve assembly in addition to drinking spout.

# END OF DIVISION