

Part II**1620.0 Systems For Supplying Uses Other than Irrigation - General.**

- (A) The provisions of Part II of this chapter shall apply to the installation, construction, alteration, and repair of gray water systems intended to supply uses such as water closets, urinals, trap for floor drains and floor sinks, industrial processes, water features, and other uses approved by the Authority Having Jurisdiction.
- (B) Gray water systems intended to supply uses other than irrigation shall be defined as non-potable water that meets, or as a result of disinfection and treatment, meets requirements for its intended uses. The level of treatment and quality of the gray water shall be approved by the Authority Having Jurisdiction.
- (C) Makeup potable water shall be supplied as a source of makeup water for gray water systems supplying uses other than irrigation. Potable water supplies shall be protected in accordance with Section 1606.0. A fullway valve shall be installed on the makeup potable water supply line to the holding tank.
- (D) The holding capacity shall be twice the volume of water required to meet the daily requirements of the fixtures supplied with gray water, but not less than 189L (50 gal.). The gray water system shall consist of a holding tank or tanks and shall be sized to limit the retention time of gray water to a maximum of 72 hours.
- (E) It shall be unacceptable for any person to construct, install, alter, or cause to be constructed, or alter any gray water system within a building or on a premises without first obtaining a permit to do such work from the Authority Having Jurisdiction. No permit for any gray water system shall be issued until complete plumbing plans, with appropriate data satisfactory to the Authority Having Jurisdiction, have been submitted and approved. No changes or connections shall be made to either the gray water system or the potable water system within any site containing a gray water system without approval by the Authority Having Jurisdiction.
- (F) Before the building is occupied, the installer shall perform the initial cross-connection test in the presence of the Authority Having Jurisdiction and other authorities having jurisdiction. The test shall be ruled successful by the Authority Having Jurisdiction before final approval is granted.

1621.0 Drawings and Specifications.

The Authority Having Jurisdiction shall be permitted to require any or all of the following information to be included with or in the plot plan before a permit is issued for a gray water system.

- (A) A plot plan drawn to scale and completely dimensioned, showing plot lines and structures, location of present and proposed potable water supplies and meters, water wells, streams, auxiliary water supply and systems, gray water supply and meters, drain lines, locations of private sewage disposal systems and 100 percent expansion areas or building sewer connected to the public sewer.
- (B) Details of construction including riser diagrams or isometrics and a full description of the complete installation, including installation methods, construction, and materials as required by the Authority Having Jurisdiction. To the extent permitted by structural conditions, gray water risers within the toilet room, including appurtenances such as air/vacuum relief valves, pressure reducing valves, etc., shall be installed in the opposite end of the room containing the served fixtures from the potable water risers or opposite walls, as applicable. To the extent permitted by structural conditions, gray water headers and branches off risers shall not be run in the same wall or ceiling cavity of the toilet room where potable water piping is run.
- (C) Detailed initial and annual testing requirements as outlined elsewhere in this chapter.

1622.0 Pipe Material/Pipe Identification.

Gray water systems shall comply with Sections 1622.1 and 1622.2.

1622.1 Pipe Materials. Gray water pipe, valves, and fittings shall conform to the requirements of Sections 1604.0.

1622.2 Color and Information. Gray water systems shall have a purple background with black upper-case lettering, with the words:

“CAUTION: GRAY WATER,
DO NOT DRINK.”

The minimum size of the letters and length of the color field shall conform to Table 6-1. Where used, a colored identification band shall be indicated every 6m (20 ft.), not less than once per room, and shall be visible from the floor level. Marking is not required for pipe manufactured with purple color integral to the pipe, and marked with black upper-case lettering to read: “CAUTION: NONPOTABLE GRAY WATER, DO NOT DRINK” in intervals not to exceed 1.5m (5 ft.). All valves, except fixture supply control valves shall be equipped with a locking