

**City of La Quinta Public Works Department – Private Water Review Checklist**  
(PW reviews Private Water Plans for Private Commercial Projects based on the California Plumbing Code)

**SUBMITTAL REQUIREMENTS**

- Precise Grading Plan
- Calculation Summary – Total Demand
- Reference Architect Building Plan – Isometric or Equal
- Hard copy of Fire Department approval of water system provided and confirms pipe sizing from hydraulic analysis and modeling

**WATER PIPE AND METER SIZING**

- Pipe sizing shall be based on Section 610 and Appendix A of the California Plumbing Code (CPC).
- Meter shall be sized according to Section 610 and Table 6-6 of the CPC.
- Fire Flow/Hydraulic Analysis/Modeling dictate pipe size. Provide water line for maximum proposed building size if future building architecture is not fully defined. Pipeline looped for dual direction and flexibility, as required.
- Service line at building minimum size = ¾ inch. Service shall be sized in accordance with CPC. CVWD meter sizes as follows: ¾-inch meter with 1-inch service line and fitting, 1-inch meter with 1½ inch service line and fitting, 1½-inch meter with 2-inch service line and fitting or 2-inch meter with 2-inch service line and fitting.

**WATER PIPELINE REQUIREMENTS PER CPC**

- No building supply pipe diameter shall be less than ¾”.
- Minimum residual water pressure is 15 psi unless a fixture requires more.
- Maximum building potable water pressure is 80 psi.
- Minimum pressure (fire) = 20 psi (at fire hydrant).
- Pipe shall have a minimum cover of 12 inches below finish grade.
- Disinfection of the potable water system is required per CPC Sect 609.9.

**WATER PIPING MATERIAL**

- PVC pipe, (e.g. PVC Schedule 40 or approved equivalent material) may be used for cold water outside the building.

**WATER PIPE LOCATIONS**

- Bottom of waterline is 1 ft or more above the top of the sewer line when crossing.
- Waterline placed on solid shelf excavated at one side of the common trench with a minimum clear distance of 12-inches from the sewer or drain line.
- Obtain separation zones according to State of California Department of Health Services, as possible.
- Provide elevations at all crossings; sewer, water and storm drains to verify clearances.

**VALVES & MISCELLANEOUS**

- Valves up to and including 2” shall be brass or other approved material. Valves beyond 2” shall have cast-iron or brass bodies.
- A full-way valve shall be located on the discharge side of the water meter.
- Pipelines supplying water to more than 1 building shall provide a separate full-way valve to each building (605.2).
- Unions shall be located within 12” of regulating equipment.
- Pressure absorbing valves shall be installed as close as possible to quick-acting valves.
- When pressures exceeds 80 psi, an approved pressure reducing valve shall be installed according to CPC Section 608.2.
- Polyethylene encasement is required for materials affected by corrosive conditions south of Hwy 111 and east of Washington.

**CROSS CONNECTION CONTROL**

- See Section 603 of the California Plumbing Code