

## BACKFLOW PREVENTION ASSEMBLY STANDARD INSTALLATION INSTRUCTIONS

- 1. A backflow prevention assembly is considered customer plumbing. Cal Water assumes no liability and makes no warranty regarding performance of any backflow prevention assembly.
- 2. Backflow prevention assembly shall be only those approved for use by the California Department of Public Health. Backflow prevention assembly and all piping used for potable water service must be lead free (<0.25% lead). Dedicated irrigation and fire suppression services may continue to use approved low lead components.
- 3. Any deviation from the installation specifications described herein must receive Cal Water approval prior to installation.
- 4. Backflow prevention assembly shall be installed on the consumer's property, immediately after the meter (if applicable) or property line, in the orientation in which it was evaluated and approved. Vertical clearance to finished grade and obstructions shall be between 12 and 36 inches. A minimum 24" horizontal clearance must be provided for testing and maintenance. Installation shall comply with all local ordinances regarding permits and property line setback requirements.

No outlets, tees, taps, by-pass, unions, swing joints, or other connections, temporary or permanent, shall be installed between the water meter and the backflow prevention assembly. Pressure reducing valves (not part of the backflow prevention assembly) may be installed upstream of the backflow prevention assembly; however, in no case shall there be a union located both upstream and downstream of the assembly.

- 5. Alternate installation locations or arrangements shall be reviewed and approved by Cal Water prior to installation.
- 6. Any plumbing modification to any part of the backflow prevention assembly will render the assembly "unapproved". Unapproved assemblies will result in disruption of water service and will require replacement with an approved assembly at customer's expense.

- 7. Installation of a backflow prevention assembly creates a closed water system. Cal Water recommends installation of thermal expansion protection as required by the California Plumbing Code.
- 8. Where necessary the backflow prevention assembly should be protected from vehicle damage.
- 9. In freeze prone areas, a protective enclosure is recommended. Enclosure must have adequate drainage in accordance with Cal Water requirements.
- 10. Water services which cannot be turned off for short durations should have backflow prevention assemblies installed in parallel.
- 11. Under no circumstances are the backflow prevention assembly's test ports be used for anything other than testing (i.e. no garden hose connections, tubing, irrigation timers, etc.)
- 12. It is the customer's responsibility to ensure that the backflow prevention assembly is kept in good working order at all times, to have the assembly tested annually and after repairs, according to Cal Water requirements. Failure to perform required testing or keep the backflow prevention assembly in good working order will result in disruption of water service.
- 13. Contact your local Cal Water office to schedule a final inspection PRIOR to backfilling any exposed piping. Re—excavation may be required if trenches are backfilled prior to inspection by Cal Water.

ENGINEERING
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DEPARTMENT

TITLE: DOUBLE CHECK VALVE-DOUBLE CHECK VALVE DETECTOR ASSY-TYP. ABOVE GRADE INSTALLATION					DISTRIBUTION MAP  ZONE MAP	DATE:	INIT.
DISTRICT: ALL	DATE: 12/1109	SCALE: N.T.S.	PROJECT ID.:	PLAT NO.:	PIAT MAP STATION SCHEMATIC	]	
DRAWN BY: Peralta	CHECKED BY: T. He	APPROVED BY	12/12/	no.: V-762R2	SYSTEM SCHEMATIC VALVE RECORD		****
REVISION: R1. Drawn in CAD (M. Setterquist 9/20/2000) R2. Add new backflow requirements & lead free rule notes. LP					AS BUILT		.,