

Instructions for Installation of Water Equipment
Summit Water Distribution Company
Revised March 12, 2002

1. Water Meter. The meter is provided by Summit Water Distribution Company (SWDC) and is installed by the owner/contractor. The meter is to be placed on the incoming water line inside the house. It is not to be located in a crawlspace but in an equipment room, with a drain, that is readily accessible to the homeowner for monitoring purposes. It should also be in a space that provides protection from freezing. It must be easily accessible for repair and/or replacement and to be read and monitored.
2. Backflow Preventer.
 - a. Irrigation.
 - i. The backflow preventer is to be installed on the tee to the outside irrigation.
 - ii. It must be installed in the horizontal position with 12" clearance on all sides to allow adequate access for testing, repairs, or replacement.
 - iii. As a reminder, the tee to the outside irrigation must be after the meter.
 - iv. The backflow preventer is a Reduced Pressure check valve that is provided by SWDC and installed by the owner/contractor.
 - b. Fire suppression.
 - i. The backflow preventer is to be installed on the fire suppression line.
 - ii. Typically, for a residence it will be a 1 ½ inch or 2 inch device.
 - iii. It must be installed in the horizontal position, 1 to 5 feet above the ground, valves positioned for easy access, with 12" clearance on all sides to allow adequate access for testing, repairs, or replacement.
 - iv. The backflow preventer is a double check valve that is provided by SWDC and installed by the owner/contractor.
3. Ball Valve. These control valves are to be placed on the incoming service line before the meter, on the service line to the house after the meter and after the pressure reducing valve, and after the tee to the outside irrigation line but before the backflow preventer. (See Drawing). These valves allow work to be done on the meter manifold without undue consequences. The ball valves are provided and installed by the owner/contractor.
4. Transponder. The transponder is an electronic sending device that allows the water company to read the meter. The transponder is provided and installed by SWDC
5. Incoming water service line. The service line will be blue poly with a 200 psi rating. It must have stiffeners/inserts at all connections and a tracer wire that runs from the curb stop box to the meter. The service line needs a gooseneck where it goes through the foundation or under the footing and must be bedded with sand, 6" below and 18" above. Bury depth is 5 feet. Sewer laterals must have the proper separation from the water service lateral. A minimum of ten feet horizontally and 18 inches vertically, with the water line above the sewer lateral. If it is installed under the slab or other concrete it should be placed in conduit.
6. The curb stop box is located at the curb stop valve where the owner/contractor connects to the incoming water service line. A rod attaches to the top of the curb stop valve and rises to the surface encased in the curb stop box. Although it is preferred to have the curb stop box out of the driveway, it is permissible if unable to do otherwise. The curb stop

box has approximately 15 inches of telescoping capability so it can be adjusted to match the finish grade. The curb stop box must be protected from damage during the construction process and also protected from being buried by snow or other debris. It is advised that the owner/contractor mark the curb stop box and take measurements off the foundation to aid in location in the future.

Specifications

1. Meter: Badger 5/8" X 3/4" Model 25 w/ HRE/LCD and Beacon Endpoint
Badger 1" Model 70 w/ HRE/LCD and Beacon Endpoint
Badger 1 1/2" Model 120 w/ HRE/LCD and Beacon Endpoint
Badger 2" Model 170 w/ HRE/LCD and Beacon Endpoint

Supplier: Hydro Specialties.
2. Backflow Preventer:
 - a. Irrigation: Appropriately sized Reduced Pressure Backflow Preventer
Supplier: Backflow Prevention Supply.
 - b. Fire Suppression: 1 1/2" Double Check Top Entry #40-107-A2T
2" Double Check Top Entry #40-1018-A2T
Supplier: Backflow Prevention Supply.
3. Curb Stop Box: Supplier: Hydro Specialties.
4. Tracer Wire: 10 gauge wire.