

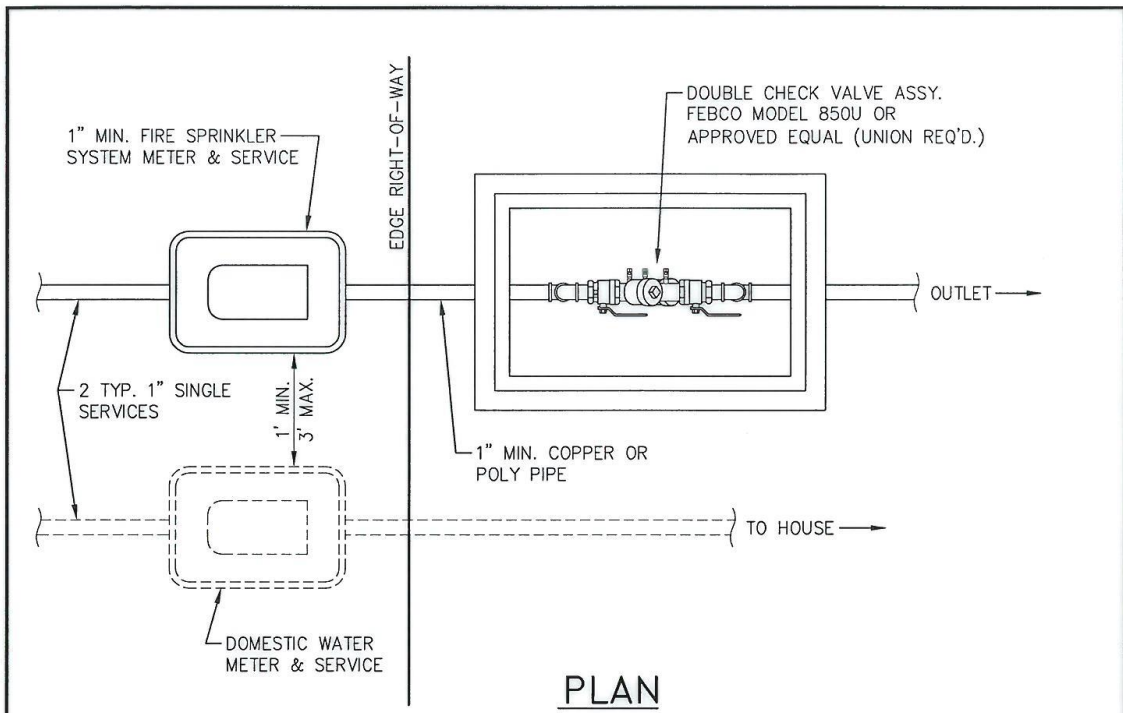
King County Water District #90

Standard Specification for Installation of Double Check Valve Assembly (DCVA) Point of Use

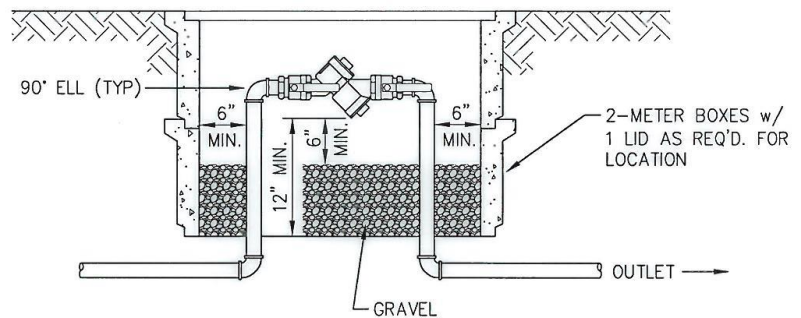
1. The DCVA must be an approved back flow assembly on the Washington state approved list.
2. The installation of a DCVA must be inspected by District personnel. (Call the District at 425-255-9600 between 8:00 a.m. and 4:30 p.m. Monday through Friday, for an appointment).
3. Supply connection at the service line shall be a brass tee.
4. The brass tee for the DCVA shall be at least 5 feet from the water meter box.
5. No pipes or sprinkler heads are allowed within a 5-foot radius of the DCVA meter box.
6. The property owner shall be responsible to maintain an area within a five (5) foot radius around the DCVA and water meter box and keep it clear of all trees or scrubs, etc.
7. The water meter must remain accessible for periodic meter readings. The DCVA must remain accessible for periodic inspections.
8. It is the responsibility of the property owner and/or general contractor to maintain established finished grade, adjacent to the DCVA and water meter.
9. The DCVA must be installed with the check valves in horizontal configuration (see drawing) with the test cocks facing upward or to one side.
10. The minimum size boxes for a below ground DCVA installation are:
 - $\frac{3}{4}$ to 1" Assemblies – 10" x 13"
 - 1 $\frac{1}{4}$ " to 2" Assemblies – 14" x 20"
11. When installed in a below ground box the DCVA must be a minimum of six inches and a maximum of fourteen inches below the top of the box.
12. Make sure that there is at least six inches of clearance between the box and the test cocks.
13. Sufficient drainage must be provided under the assembly to prevent flooding.
14. Compressed air fittings used for winterizing the system must be installed downstream of the DCVA.
15. Unions should be installed on both sides of the device for removal.
16. The DCVA must be tested when installed and annually thereafter.
17. All test cocks must be plugged.
18. If the DCVA is installed on a water line supplying a hot water tank, ensure that the hot water tank is equipped with a pressure relief valve and/or expansion tank.

Backflow Equipment Suppliers

HD Fowler	800-847-5290	HD Supply Waterworks	800-422-2038
Keller Supply	425-226-6881	McLendon's Hardware	425-235-3555



PLAN



ELEVATION

NOTE FOR FIRE SPRINKLER DCVA'S:
 DCVA SIZE TO BE SPECIFIED BY THE FIRE SPRINKLER SYSTEM DESIGNER (1" MIN.). PROPOSED VALVE & SIZE IS TO BE SUBMITTED TO KCWD NO. 90 IN WRITING PRIOR TO INSTALLATION.

NOTE:
 DETERMINATION OF DCVA OR RPBA FOR CROSS CONNECTION CONTROL WILL BE MADE BY WD NO. 90 ON A CASE BY CASE BASIS.

<p>RothHill Engineering Partners, LLC 2600 116th Avenue NE #100 Bellevue, Washington 98004 Tel 425.869.9448</p>	CROSS CONNECTION CONTROL-DCVA				<p>WATER DISTRICT NO.90</p>	
	PLOTTING DATE JAN. 2005	DRAWN DSH	CHECKED	APPROVED <i>[Signature]</i>		DISTRICT <i>T.N.H.</i>
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