



1 APPROVED DOUBLE CHECK VALVE ASSEMBLY INCLUDING FACTORY SUPPLIED SHUT-OFF VALVES: AS LISTED ON THE CURRENTLY APPROVED BACKFLOW PREVENTION ASSEMBLIES LIST SPECIFIED BY OREGON DEPARTMENT OF HUMAN SERVICES.

PLUMBING FROM THE CONNECTION TO POTABLE WATER SUPPLY LINE TO THE ASSEMBLY REQUIRES A PLUMBING PERMIT AND MUST BE INSPECTED BEFORE COVERING.

AN INITIAL TEST PERFORMED BY A STATE CERTIFIED BACKFLOW ASSEMBLY TESTER IS REQUIRED AT THE TIME OF INSTALLATION, AT LEAST ANNUALLY THEREAFTER OR MORE FREQUENTLY AS REQUIRED BY WATER SUPPLIER.

COPIES OF COMPLETED TEST REPORT SHALL BE FURNISHED TO:  
 THE OWNER  
 THE WATER SUPPLIER (EWEB, SUB OR RAINBOW WATER DISTRICT)  
 THE BUILDING OFFICIAL

SUB DWG NO FF11DE45 REV 2

CITY OF EUGENE BUILDING AND PERMITS REVIEW *SR*

RWD ENGINEERING REVIEW \_\_\_\_\_

SUB ENGINEERING REVIEW *DIC*

FUNC	BY	CHK	APP
DES	SLW		SLW
DWN	RS		SLW
SPONSOR		SLW	

WATER STANDARDS  
 REGIONAL DESIGN STANDARDS  
 DOUBLE CHECK VALVE ASSEMBLY  
 1/2" - 2" BELOW GRADE

EUGENE WATER & ELECTRIC BOARD - EUGENE, OREGON

SCALE: NTS

REV DATE	BY	CHK	APP
05/21/09	NLN		<i>MDH</i>

5 YEAR REVIEW

DWG NO	REV
WD6-6.5100	3

1 of 2

NOTES:

1. DOUBLE CHECK VALVE ASSEMBLY (DCV) SHALL BE INSTALLED IN A LOCATION APPROVED BY EWEB, SUB OR RWD FOR THEIR RESPECTIVE SERVICE AREA.
2. DCV MAY BE INSTALLED VERTICALLY, PROVIDED THAT THE DCV IS:
  - a. RECOMMENDED BY THE MANUFACTURER FOR VERTICAL INSTALLATION
  - b. APPROVED IN A VERTICAL ORIENTATION AS LISTED ON THE CURRENTLY APPROVED BACKFLOW PREVENTION ASSEMBLIES LIST SPECIFIED BY OREGON DEPARTMENT OF HUMAN SERVICES.
3. ALL CLEARANCES PICTURED APPLY TO OUTSIDE, IN-BUILDING, AND VERTICAL INSTALLATIONS.
4. DCV SHALL BE PROTECTED FROM FREEZING.
  - a. A 2" LAYER OF SPRAY-FOAM INSULATION EVENLY COATING INSIDE THE IRRIGATION BOX LID IS SUFFICIENT.
5. BORE-SIGHTED DRAIN TO DAYLIGHT IS REQUIRED IN ALL SUB AND RWD INSTALLATIONS. ALTERNATE METHODS MAY BE APPROVED BY EWEB FOR DCV IN ITS SERVICE AREA. ALLOWABLE ALTERNATIVES MAY INCLUDE:
  - a. DRY WELL SIZED FOR ADEQUATE DRAINAGE (6 INCH DEPTH MINIMUM)
6. COMPACTED GRAVEL OR UNDISTURBED BASE.
7. A DOOR OR OTHER ACCESS SHALL BE PROVIDED.
8. DCV INSTALLED BELOW GROUND LEVEL SHALL HAVE WATERTIGHT PLUGS OR CAPS INSTALLED ON THE TEST PORTS.

ADDITIONAL CONSIDERATIONS FOR FIRE SERVICES:

1. FIRE SERVICE ASSEMBLIES SHALL BE INSTALLED WITHIN 10' OF EWEB, SUB OR RWD POINT OF SERVICE.
2. ALL PIPING PRECEDING THE DOUBLE CHECK VALVE SHALL BE CONSTRUCTED OF POTABLE APPROVED MATERIAL PER OPSC TABLE 6-4.
3. NO OUTLETS OR CONNECTIONS (INCLUDING HYDRANTS) WILL BE PERMITTED ON FIRE SERVICE LINES PRIOR TO THE DOUBLE CHECK VALVE.
4. WHERE NON-FOOD GRADE ANTIFREEZE, CORROSION INHIBITORS, OR OTHER CHEMICALS ARE ADDED TO A FIRE PROTECTION SYSTEM A REDUCED PRESSURE BACKFLOW ASSEMBLY OR REDUCED PRESSURE DETECTOR ASSEMBLY SHALL BE USED.

REFERENCE: OREGON PLUMBING SPECIALTY CODE, CHAPTER 6 WATER SUPPLY AND DISTRIBUTION, 603.4.6.3; 603.4.6.4; 603.3.3; 603.3.4; 603.3.8; 603.4.18.3 TABLE 6-4

REFERENCE: OREGON ADMINISTRATIVE RULES 333-061-0070 (5) (12) (15); 333-061-0071 (9)

<u>SUB DWG NO</u> FF11DE45	<u>REV</u> 2
-------------------------------	-----------------

CITY OF EUGENE BUILDING AND PERMITS REVIEW SR

RWD ENGINEERING REVIEW \_\_\_\_\_

SUB ENGINEERING REVIEW DK

FUNC	BY	CHK	APP
DES	SLW		SLW
DWN	RS		SLW
SPONSOR		SLW	

**WATER STANDARDS  
 REGIONAL DESIGN STANDARDS  
 DOUBLE CHECK VALVE ASSEMBLY  
 1/2" - 2" BELOW GRADE**

SCALE: NTS			
REV DATE	BY	CHK	APP
05/21/09	NLN		<u>DK</u>
5 YEAR REVIEW			

DWG NO <b>WD6-6.5100</b>	REV <b>3</b>
-----------------------------	-----------------

DATE: 01/01/95

EUGENE WATER & ELECTRIC BOARD - EUGENE, OREGON