

1. ALL BACKFLOW PREVENTION ASSEMBLIES MUST BE APPROVED BY THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH AND MEET ALL REQUIREMENTS OF THE FOUNDATIONS CURRENT MANUAL OF CROSS-CONNECTION CONTROL AND NAC SECTION 445A.
2. THE RP MUST BE INSTALLED DIRECTLY AFTER THE METER OR SERVICE CONNECTION. ANY OTHER LOCATION, INCLUDING AN INTERNAL INSTALLATION, MUST BE APPROVED BY A SUN VALLEY G.I.D. CROSS-CONNECTION CONTROL DIVISION EMPLOYEE.
3. ALL BACKFLOW PREVENTION ASSEMBLIES MUST BE INSTALLED ACCORDING TO SUN VALLEY G.I.D.'S CROSS-CONNECTION CONTROL GUIDELINES.
4. EXTERIOR INSTALLATIONS OF BACKFLOW PREVENTION ASSEMBLIES ON DOMESTIC OR FIRE SERVICE LINES MUST HAVE ADEQUATE FREEZE PROTECTION. AN ABOVE GROUND VAULT AND HEAT TAPE, OR A "HOT BOX" AND HEAT TAPE ARE MINIMUM REQUIREMENTS FOR FREEZE PROTECTION. SEVERAL HEAT TAPES ARE RECOMMENDED IN CASE ONE FAILS. THE OWNER IS RESPONSIBLE TO REPLACE OR REPAIR THE ASSEMBLY IF IT IS DAMAGED AS A RESULT OF FREEZING.
5. ALL INSTALLATIONS, INTERIOR OR EXTERIOR, MUST PROVIDE CLEARANCES SHOWN IN SUN VALLEY G.I.D.'S PLAN VIEW. ANY VAULT MUST BE SIZED TO PROVIDE THE CLEARANCES SHOWN IN THE PLAN VIEW. A "HOT BOX" LID MUST SWING CLEAR OF THE BACKFLOW ASSEMBLY TO PROVIDE THE SAME CLEARANCES. LARGE VAULTS MUST HAVE SPRING-LOADED DOORS.
6. THE RP MUST BE INSTALLED ABOVE GRADE IN EXTERIOR INSTALLATIONS. FOR INTERIOR OR EXTERIOR INSTALLATIONS, THE RP MUST BE INSTALLED SUCH THE NO PART OF THE RP WILL BE SUBMERGED DURING NORMAL OPERATIONS AND WEATHER. AN RP MAY BE INSTALLED IN A BASEMENT WITH PROPER DRAINAGE. THE DRAINAGE (POSITIVE DAYLIGHT) MUST BE PROVIDED BENEATH OR NEAR THE RP. CONTACT THE BACKFLOW ASSEMBLY MANUFACTURER FOR PROPER DRAIN SYSTEM AND SIZE. MINIMUM RP RELIEF VALVE FLOW RATES AND MINIMUM DIAMETER OF RELIEF VALVE PORTING ARE SET FORTH IN AWWA STANDARD C511 AND USC MANUAL OF CROSS CONNECTION.
7. AN AIR GAP OF AT LEAST 2 TIMES THE DIAMETER, WITH A MINIMUM OF 1", OF THE OUTLET PORT OF THE RELIEF VALVE MUST BE MAINTAINED BETWEEN THE RELIEF VALVE PORT AND THE DRAIN OF MAXIMUM FLOOD LEVEL, WHICHEVER IS HIGHEST.
8. A THERMAL EXPANSION TANK MUST BE INCORPORATED INTO THE PLUMBING SYSTEM. INSTALLATION OF A BACKFLOW PREVENTION ASSEMBLY WILL PREVENT RELEASE OF ON-SITE PRESSURE TO THE UTILITY WATER MAIN.
9. THE RP MAY NOT BE INSTALLED UNDERGROUND, IN A WALL, IN AN ATTIC, OR ABOVE A CEILING. THE RP MUST BE READILY ACCESSIBLE FOR TESTING, UNIT REPAIR OR UNIT REMOVAL.
10. THE RP MUST BE INSTALLED IN A HORIZONTAL RUN OF PIPE UNLESS APPROVED BY USC IN ANOTHER POSITION.
11. THE RP MUST BE INSTALLED IN-LINE AND BE THE SAME SIZE AS THE SUPPLY AND DISCHARGE PIPING.
12. NO OUTLET, TEE, TAP, HOSE BIB, CONNECTION TO OR FROM THE SERVICE LINE, OR STOP AND WASTE VALVE IS ALLOWED BETWEEN THE METER (OR SERVICE CONNECTION) AND THE RP.
13. MINIMUM AND MAXIMUM CLEARANCES ARE REQUIRED FOR THE OPERATION, TEST OR REPAIR OF THE ASSEMBLY: MINIMUM 12" HORIZONTAL CLEARANCE TO NON-OPERATIONAL SIDE (SIDE WITH NO TEST COCKS) OF THE RP. MINIMUM 30" OF CLEARANCE TO OPERATIONAL SIDE (SIDE WITH TEST COCKS) OF THE RP. MINIMUM 12" AND MAXIMUM 36" VERTICAL CLEARANCE BELOW THE DC AS MEASURED FROM THE BOTTOM OF THE DEVICE.
14. THOROUGHLY FLUSH THE LINES BEFORE INSTALLING THE RP.
15. THE RP SHALL NOT BE INSTALLED IN AN AREA WHERE CORROSIVE FUMES OR GASES COULD RENDER THE ASSEMBLY INOPERATIVE.
16. BEFORE A WATER METER WILL BE SET AND WATER SERVICE IS GRANTED, A SUN VALLEY G.I.D. CROSS-CONNECTION CONTROL EMPLOYEE MUST INSPECT THE INSTALLATION OF THE BACKFLOW ASSEMBLIES BETWEEN THE METER (OR SERVICE CONNECTION) AND THE BACKFLOW ASSEMBLY, BEFORE THE TRENCH IS BACKFILLED. PLEASE CALL 48 HOURS IN ADVANCE TO SET AN APPOINTMENT.
17. THE RP MUST BE TESTED BY A SUN VALLEY G.I.D. CROSS-CONNECTION CONTROL EMPLOYEE AT THE TIME OF INSTALLATION, AND YEARLY THEREAFTER. ANY REPAIRS NEEDED TO THE RP ARE THE OWNER'S RESPONSIBILITY. COPIES OF ALL TEST RESULTS FOR DOMESTIC, IRRIGATION, AND FIRE BACKFLOW PREVENTION ASSEMBLIES WILL BE GIVEN TO THE OWNER OF THE BACKFLOW DEVICE AND A COPY RETAINED IN THE FILE.

**SUN VALLEY GENERAL
IMPROVEMENT DISTRICT**

5000 SUN VALLEY BLVD.
SUN VALLEY, NEVADA 89433-8229
OFFICE (775) 673 - 2220, FAX (775) 673-1835

**REDUCED PRESSURE PRINCIPLE BACKFLOW
PREVENTION ASSEMBLY (RP) NOTES**

TYPICAL INSTALLATION

DRAWING

SV-16

05/2017