



**TYPICAL LOCATION REQUIREMENT
FOR ABOVE GROUND INSTALLATION**

N.T.S.

- NO. DESCRIPTION:**
1. SLEEVE REQUIRED (TYP.).
 2. SLOPE GROUND AWAY FROM COVER.
 3. HINGED ACCESS OR REMOVABLE INSULATED ENCLOSURE MEETING ASSE 1060 SPECIFICATIONS. ENCLOSURE TO INCLUDE DRAIN PORT(S) PER CLTW REQUIREMENT.
 4. RESTRAINED JOINT. SEE NOTE C.
 5. TEST COCK #1.
 6. SHUT-OFF VALVE #1. SEE NOTE B.
 7. CHECK VALVE #1.
 8. CHECK VALVE #2.
 9. SHUT-OFF VALVE #2. SEE NOTE B.
 10. COVER MUST NOT OBSTRUCT VALVE BEING FULLY OPENED.
 11. SUPPORTS. SEE NOTE D.
 12. DIP OR TYPE K OR L COPPER TUBING FOR MIN. OF 5' ON EACH END OF ASSEMBLY. SEE NOTE C.
 13. RELIEF VALVE OUTLET.
 14. LOWEST POINT OR RELIEF VALVE OUTLET.
 15. MIN. 4" THICK CONCRETE PAD REQUIRED. SEE NOTE J.
 16. SUPPORT, PAD AND CONCRETE FOOTINGS AS REQUIRED BY SYSTEM DESIGNER.
 17. RESTRAINED JOINT. SEE NOTE C.
 18. ZONING SETBACK.
 19. CLTW REQUIRED BPA ABOVE GROUND.
 20. SEE NOTES F AND G.
 21. CLTW METER.
 22. PUBLIC WATER MAIN.
 23. PROPERTY LINE OR R/W.

NOTES:

- A. BACKFLOW PREVENTION ASSEMBLIES (BPA's) SHALL CONFORM TO CLTW SPECIFICATIONS. SHUT-OFF VALVES ARE SPECIFIC TO EACH APPROVED BPA AND NO SUBSTITUTIONS OF SHUT-OFF VALVES ARE PERMITTED. REFER TO CLTW APPROVED LIST OF BPA's.
- B. FIRE LINE SERVICES SHALL HAVE OUTSIDE STEM AND YOKE (OS & Y) HANDWHEEL OPERATORS OR BUTTERFLY VALVES, AND LISTED ON APPROVED LIST AS FIRE APPROVED. IF SERVING FIRE SPRINKLERS, TAMPER SWITCHES ARE REQUIRED.
- C. PIPE MATERIAL AND FITTINGS SHALL BE AS SPECIFIED IN CLTW STANDARDS & SPECIFICATIONS. ALL JOINTS SHALL BE RESTRAINED WITH MEGALUG RESTRAINTS OR APPROVED EQUAL.
- D. SUPPORT OF ASSEMBLY SHALL BE DESIGNED BY OWNER, 8" - 12" SHALL BE SUPPORTED AT EACH VALVE AND SHALL NOT BLOCK RELIEF VALVE ON DRAIN PORT.
- E. INSULATED ENCLOSURE SHALL BE AS SPECIFIED IN CLTW ENCLOSURE INFORMATION AND COMPLY WITH ASSE 1060 ENCLOSURE REQUIREMENTS - HEATED INSULATED ENCLOSURE ARE REQUIRED FOR FIRE LINE SERVICES. NO INSULATION SHALL BE WRAPPED AROUND BPA. COVER MUST NOT OBSTRUCT THE VALVE BEING FULLY OPENED.
- F. ALL LOCATIONS FOR BPA's REQUIRE CLTW APPROVAL AND MUST BE OUTSIDE OF ZONING SET-BACK DIRECTLY BEHIND METER.
- G. THERE SHALL BE NO TAPS, PIPING BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE DEPT. CONNECTION POINTS, OR OTHER WATER - USING APPURTENANCES CONNECTED TO THE SUPPLY LINE BETWEEN ANY WATER METER AND ITS CLTW - REQUIRED BACKFLOW PREVENTER.
- H. EACH CLTW-REQUIRED BPA IS REQUIRED TO BE TESTED BY A CLTW - APPROVED CERTIFIED TESTER PRIOR TO PLACING THE WATER SYSTEM IN SERVICE. TEST RESULTS SHALL BE SUBMITTED TO CLTW WITHIN 30 DAYS AND TESTED ANNUALLY THEREAFTER SUBMITTING RESULTS TO CLTW.
- I. ALL INSTALLATIONS INTENDED FOR ADDRESSING CLTW REQUIREMENTS, REQUIRE PRIOR APPROVAL FROM THE APPROPRIATE CLTW BACKFLOW INSPECTOR.
- J. PAD MUST BE NO LOWER THAN 100-YEAR FLOOD AND HAVE ADEQUATE GRAVITY DRAINAGE. BACKFLOW DEVICE CANNOT BE INSTALLED BELOW GRADE, IN ANY LOCATION SUBJECT TO FLOODING, AND/OR CONSTRUCTED TO SUBMERGE THE RELIEF VALVE OPENING.