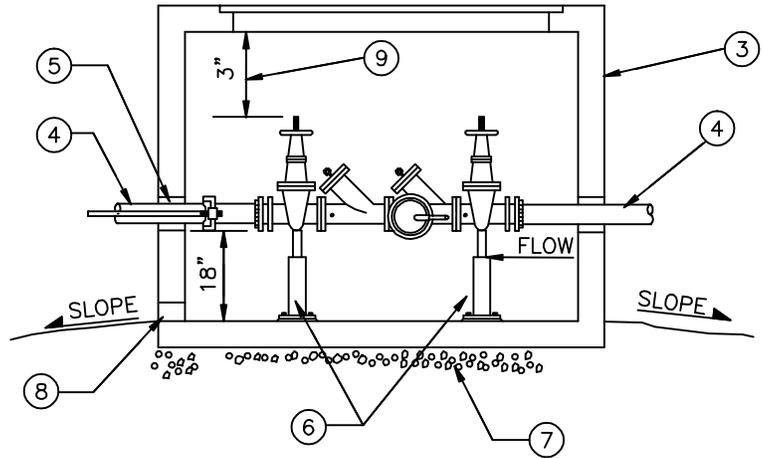


**PLAN**



**ELEVATION**

**MATERIAL LIST:**

- ① WASHINGTON STATE APPROVED REDUCED PRESSURE BACKFLOW ASSEMBLY INCLUDING: 2-0.S.& Y RESILIENT SEATED GATE VALVES, AND TEST COCKS.
- ② UNI-FLANGE WITH SET SCREWS OR MJ x FL ADAPTOR WITH MEGALUG OR GALVANIZED SHACKLE TO MAIN WITH TWO 3/4" RODS, OR MJ RETAINER GLANDS.
- ③ PRECAST CONCRETE ENCLOSURE WITH STEEL ACCESS HATCH (AS MANUFACTURED BY UTILITY VAULT CO OR APPROVED EQUAL). ABOVE GROUND INSTALLATIONS WILL BE PROVIDED WITH 6'-6"x36" STEEL DOOR FOR ACCESS, THE EXTERIOR WILL BE PAINTED WITH AN APPROVED PAINT, PROVIDED WITH SUFFICIENT INSULATION TO PREVENT FREEZING AND SITE WILL BE PROVIDED WITH A 6' HIGH SECURITY FENCE WITH PEDESTRIAN AND VEHICLE GATES. SEMI-BURIED INSTALLATIONS WILL BE PROVIDED WITH OSHA APPROVED LADDER. INSTALLED IN SUCH A WAY AS TO NOT INTERFERE WITH INSTALLED EQUIPMENT MAINTENANCE.
- ④ DUCTILE IRON PIPE (SIZED AS REQUIRED) CLASS 52.
- ⑤ WATER TIGHT GROUT SHALL BE USED IN ALL VAULT PENETRATIONS.
- ⑥ 2 EACH GALVANIZED ADJUSTABLE PIPE SUPPORTS.
- ⑦ 5/8" CRUSHED ROCK FOUNDATION AS REQUIRED.
- ⑧ DRAIN SHALL BE INSTALLED WITH APPROVED AIR GAP, BE ABLE TO BE BORE SIGHTED TO DAYLIGHT WHICH MUST BE ABOVE 100 YEAR FLOOD LEVEL. DRAIN WILL BE SIZED SO AS TO PROVIDE FREE GRAVITY DRAINAGE OF MAXIMUM DISCHARGE OF RELIEF VALVE PORT.
- ⑨ 3" MIN CLEARANCE FROM UNDERSIDE OF VAULT LID TO STEM OF OS&Y WHEN FULLY OPEN.

**NOTES:**

- 1. TEE AND GATE VALVE REQUIRED AT WATER MAIN.
- 2. TEST COCKS ARE REQUIRED TO BE PLUGGED.
- 3. MAXIMUM HEIGHT OF ASSEMBLY IS FIVE FEET UNLESS AN OSHA APPROVED PLATFORM IS PROVIDED.
- 4. MINIMUM INSIDE VAULT HEIGHT IS 78", OR AS APPROVED BY CITY ENGINEER, FOR 2-1/2" SERVICE AND LARGER.
- 5. INSIDE INSTALLATIONS SEE STD. DETAIL NO. W-120.
- 6. ALL DIMENSIONS ARE MINIMUM CLEARANCE REQUIREMENTS.
- 7. ASSEMBLY REQUIRES CERTIFICATION UPON INSTALLATION AND RECERTIFICATION ANNUALLY.



APPROVED BY	L. OLIVE
DATE	07/31/2008
REF STAD SPEC	

**DEPARTMENT OF PUBLIC WORKS**  
**STANDARD DETAILS**  
**REDUCED PRESSURE BACKFLOW ASSEMBLY**  
**(RPBA) 2-1/2" AND LARGER**

**STANDARD DETAIL**  
**NUMBER**  
**W-140**