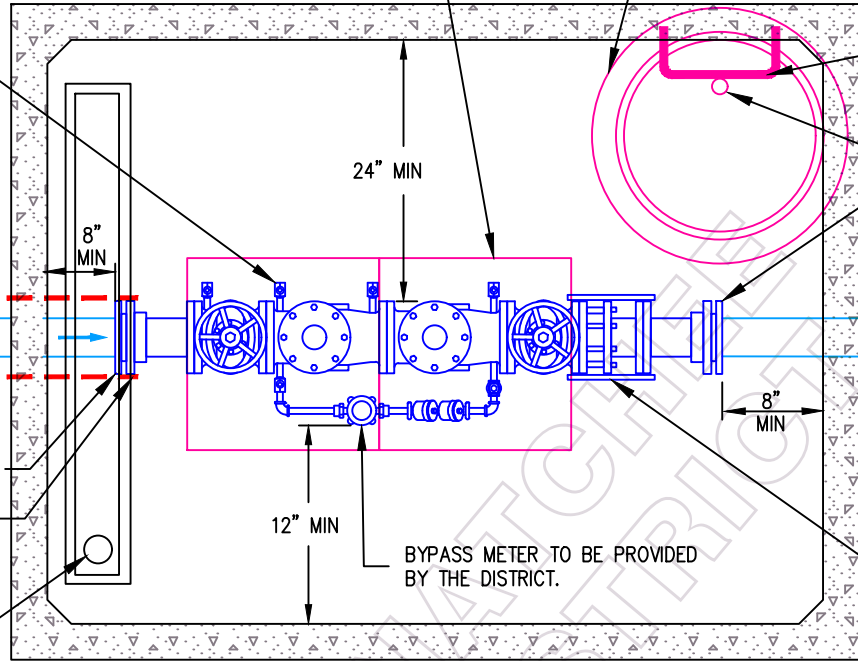
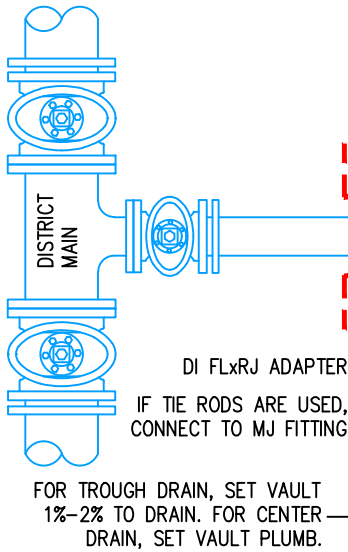


4" DOUBLE CHECK SHOWN WITH 687 VAULT

ACCESS HATCH(ES) SIZED TO ALLOW REMOVAL OF CHECK ASSEMBLY. MINIMUM SIZE OF 2'x4'. SEE DETAIL W-26.

PERSONNEL ACCESS: 24" DIA. RING AND SOLID COVER MARKED "WATER". ALTERNATE 24" OR 30" SQUARE HATCH. ALTERNATIVE ACCESS LAYOUTS MUST BE APPROVED BY THE DISTRICT.

TEST COCKS SHALL FACE UP OR TO THE ACCESSIBLE SIDE OF THE ASSEMBLY.



PROVIDE AND INSTALL BOLT ON LADDER OR MANHOLE STEPS.

"LADDER-UP" SAFETY EXTENSION

DI FLxRJ ADAPTER

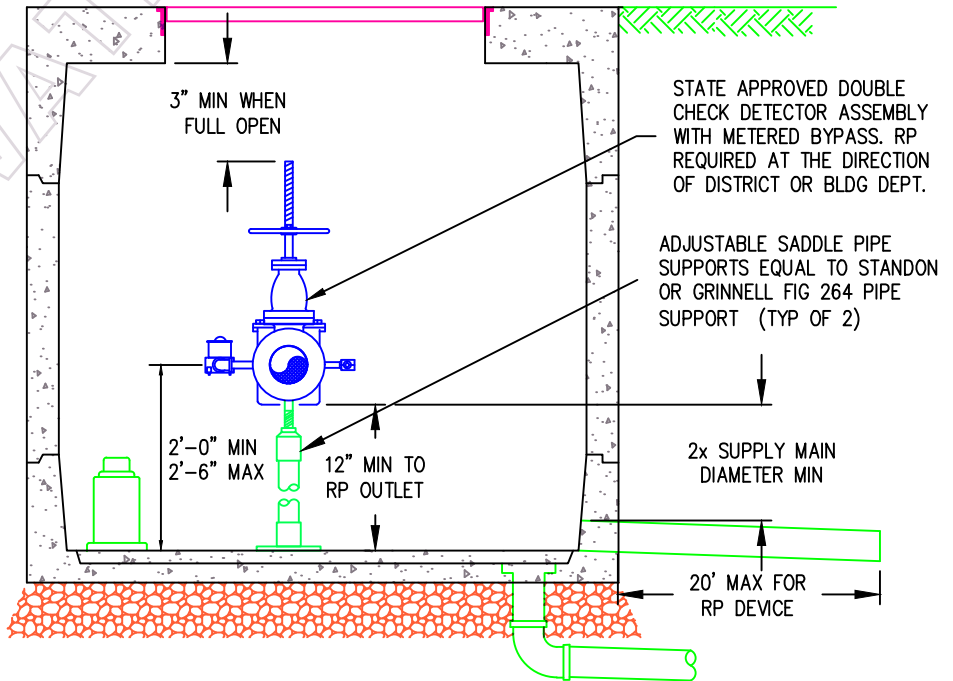
PRIVATE FIRE SYSTEM INSTALLED BY LEVEL "U" CONTRACTOR

R.O.W. PRIVATE

VALVE DIAM	MAX FLOW*	MIN. VAULT HEIGHT	MIN. VAULT WIDTH	MIN. VAULT LENGTH BASED ON BACKFLOW DEVICE LENGTH	a. CLEARANCES SHOWN ARE REQUIRED MINIMUMS. b. VAULT DIMENSIONS ARE INTERIOR MINIMUMS AND A LARGER VAULT MAY BE REQUIRED. c. DESIGN ENGINEER TO CONFIRM SIZING. d. ALTERNATE VAULT SIZES REQUIRE DIMENSIONED LAYOUT FOR REVIEW.
2½"	225 gpm	72"	50"	ALL 2.5" DIA. DEVICES, VAULT 5' DEVICE < 41", VAULT 7' DEVICE 41" TO 47", VAULT 7.5' DEVICE 47" TO 50", VAULT 8' DEVICE 50" TO 66", VAULT 10' DEVICE > 66", VAULT 12'	
3"	320 gpm	72"	54"		
4"	500 gpm	72"	58"		
6"	1000 gpm	72"	60"		
8"	1600 gpm	72"	62"		
10"	2300 gpm	74"	66"		
12"	3000 gpm	82"	66"		

* MAXIMUM FLOW RATE OBTAINED FROM AWWA C510, C511 AND FCCC

1. DEVICE TO BE MAINTAINED BY OWNER. ANNUAL TESTING IS REQUIRED.
2. WATER MAIN SHALL NOT BE PLACED IN SERVICE UNTIL AFTER DEVICE IS APPROVED BY A DISTRICT INSPECTOR.
3. RESTRAIN ALL JOINTS BETWEEN THE WATERMAIN AND THE DEVICE. RESTRAIN ALL JOINTS ON THE DOWNSTREAM (CUSTOMER) SIDE OF THE DEVICE PER DEAD-END LENGTH CALLOUTS ON STANDARD DETAIL W-16, OR AS APPROVED BY THE DISTRICT.
4. DISTRICT OWNERSHIP TERMINATES AT R.O.W. OR VAULT WALL, WHICHEVER IS REACHED FIRST.
5. THIS PLAN IS SHOWN FOR GENERAL LAYOUT ONLY. DESIGN ENGINEER MUST VERIFY EACH INSTALLATION INCLUDING HATCH AND LADDER LOCATIONS. SUBMITTAL OF LAYOUT FOR DISTRICT REVIEW IS ENCOURAGED.
6. DESIGN ENGINEER TO VERIFY SIZE OF DEVICE REQUIRED PER MANUFACTURER AND FIRE DISTRICT CRITERIA. SUBMIT SIZING TO DISTRICT FOR REVIEW.
7. SEE STANDARD DETAIL W-25 FOR MORE INFO.
8. RP=REDUCED PRESSURE PRINCIPAL.
9. NOTHING ON THESE DETAILS SHALL BE INTERPRETED AS WAIVING STATE CROSS CONNECTION CONTROL REQUIREMENTS.
10. SEE W-26 FOR ADDITIONAL VAULT INSTALLATION DETAILS. "HOT-BOX" MAY ALSO BE ACCEPTABLE.
11. IF THE ASSEMBLY IS ON A FIRE LINE THE VALVES ARE REQUIRED TO BE RISING-STEM VALVES.



East Wenatchee Water District



WATER SYSTEM STANDARD DETAIL BACKFLOW PREVENTION ASSEMBLY