



- ① STATE APPROVED DOUBLE CHECK VALVE ASSEMBLY, COMPLETE WITH (2) RESILIENT SEATED O.S.&Y. VALVES AND (4) RESILIENT SEATED TEST COCKS, AND BRASS OR COPPER DETECTOR BY-PASS. FACE TEST COCKS TOWARD CENTER OF VAULT AND ACCESSIBLE.
- ② STATE APPROVED 3/4" DOUBLE CHECK VALVE ASSEMBLY, COMPLETE WITH (2) RESILIENT SEATED BALL VALVES AND (4) RESILIENT SEATED TEST COCKS. FACE TEST COCKS TOWARD CENTER OF VAULT.
- ③ EACH VALVE SHALL BE MARKED WITH MODEL NUMBER WITH DESIGNATION OF RESILIENT SEAT: SUCH AS "RS" OR "R", WHICH MUST BE CAST, MOLDED, OR AFFIXED ONTO THE BODY OR BONNET OF THE VALVE. ALL FERROUS BODIED VALVES SHALL BE COATED WITH A MINIMUM OF 4MLS. OF EPOXY OR EQUIVALENT POLYMERIZED COATING.
- ④ 3/4" METER (CUBIC FEET READING)
- ⑤ MEGAFLANGE
- ⑥ ONE GALVANIZED STEEL LADDER TO BE SECURED TO VAULT WITH LADDER-UP (BILCO MODEL LU-2), OR APPROVED EQUAL, LADDER TO BE ATTACHED TO VAULT PER STANDARD DETAIL W-19.
- ⑦ CONCRETE VAULT WITH 2 LOCKING ALUMINUM LW HATCH DOORS (PART NO. HHD-42"x72" OR EQUIVALENT), RATED FOR H-30 LOADING, OR APPROVED EQUAL, OFFSET WITH SLIP RESISTANT TREATMENT PER SECTION W4-17 OF THE ENGINEERING STANDARDS. COVER TO READ "WATER".
- ⑧ WATER TIGHT GROUT. RESTRAIN INLET/OUTLET PIPE WITH MEGALUG MID-SPAN RESTRAINT AND THRUST BLOCK ADJACENT TO VAULT SEE STANDARD DETAIL W-56.
- ⑨ DRAIN, SLOPE TO DAYLIGHT OR STORM DRAINAGE SYSTEM, MINIMUM DIAMETER 6".
- ⑩ TWO ADJUSTABLE PIPE STANCHIONS, BOLTED TO FLOOR.
- ⑪ ALL PLUMBING FOR BY-PASS TO BE COPPER AND BRASS.
- ⑫ ACCESS TO BE CENTERED OVER ASSEMBLY.
- ⑬ CL. 52 D.I., PEXFL WITH RETAINER GLANDS.
- ⑭ INSTALL WIRE MESH RODENT SCREEN OVER DRAIN OUTLET.
- ⑮ 2 VALVE SUPERVISORY SWITCHES, SPDT, PER FIRE DEPARTMENT REQUIREMENTS (1 SWITCH PER VALVE).

NOTES:

- 1. TESTING IS REQUIRED BY A WASHINGTON STATE DEPARTMENT OF HEALTH CERTIFIED BACKFLOW ASSEMBLY TESTER UPON INSTALLATION AND ANNUALLY THEREAFTER. ASSEMBLY TO BE MAINTAINED BY OWNER.
- 2. TEE & GATE VALVES REQUIRED ON MAIN.
- 3. WHEN DOUBLE CHECK VALVE ASSEMBLY IS USED IN SAME LINE WITH DOMESTIC BUILDING METER, METERED DETECTOR BYPASS SHALL BE OMITTED.
- 4. ALL CLEARANCES SHOWN ARE MINIMUM.
- 5. VAULTS SHALL NOT BE INSTALLED IN AREAS WITH VEHICULAR TRAFFIC.
- 6. IN CENTRAL BUSINESS DISTRICT, 3" THROUGH 6" ASSEMBLIES SHALL CONNECT TO WATER MAIN WITH 8" PIPE.
- 7. FDC TO BE LOCATED DOWNSTREAM OF DCVA. FDC LINE & CHECK VALVE MAY BE ROUTED INSIDE THE DCVA VAULT PROVIDED ALL PROVISIONS IN STANDARD DETAIL W-50 ARE MET.
- 8. MINIMUM 2' OF LEVEL, UNOBSTRUCTED AREA AROUND HATCHES.
- 9. SECURE A VALVE MARKER, PER DETAIL W-55, TO EACH GATE VALVE HANDLE.
- 10. LONGER VALVE ASSEMBLIES MAY REQUIRE A LARGER VAULT TO MEET THE REQUIRED CLEARANCES. SUBMIT FOR APPROVAL.

| SIZE | MIN. VAULT SIZE (INSIDE) | | | OLDCASTLE PERCAST MODEL | OLDCASTLE PERCAST TOP * |
|------|--------------------------|-------|-------|-------------------------|-------------------------|
| | W | L | H | | |
| 3" | 4'-2" | 4'-8" | 3'-3" | 675-WA | 675-2-332P |
| 4" | 4'-6" | 5'-3" | 3'-8" | 675-WA | 675-2-332P |
| 6" | 4'-8" | 6'-6" | 4'-5" | 675-WA | 675-2-332P |
| 8" | 5'-0" | 7'-8" | 5'-3" | 687-LA | 687-TL-2-332 |
| 10" | 5'-2" | 8'-8" | 6'-1" | 5106-LA | 5106-TL3-332 |

* COVER MODIFIED PER NOTE ⑦.



City of Bellevue

WATER UTILITY

TITLE
 3" TO 10" DOUBLE CHECK DETECTOR ASSEMBLY FOR FIRE SPRINKLER SYSTEMS (OUTSIDE INSTALLATION) NO. W-45