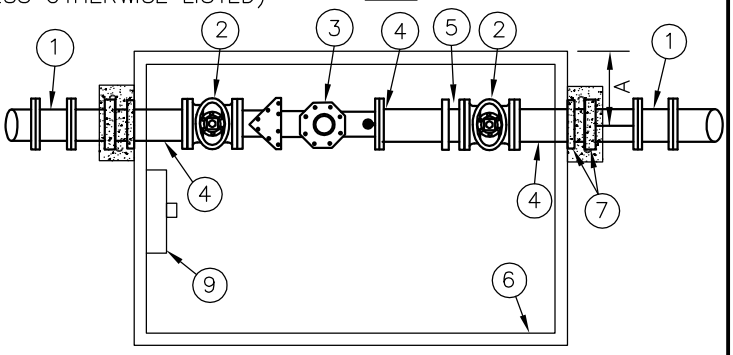
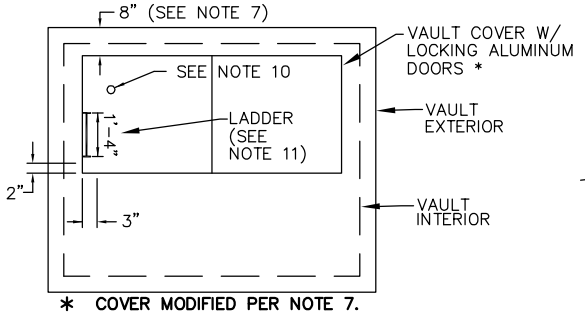
MATERIALS LIST– (ALL SIZES ARE SAME AS METER UNLESS OTHERWISE LISTED)

1. 2–MECH. CPLG. TO FIT, EQUAL TO ROMAC 501 (4"x3" REDUCER, M.J. FOR 3" METER INSTALLATION ON UPSTREAM SIDE OF VAULT).
2. 2–GATE VALVE, FLANGE.
3. 1–SENSUS OMNI C2 METER WITH INTERNAL STRAINER WITH ELECTRONIC REGISTER RESOLUTION (100'S OF CUBIC FEET FOR 3" METER, 500 CUBIC FEET FOR 4–6" METER) REGISTER.
4. 1–D.I. ADPT. FL.xPE. LENGTH TO FIT.
5. 1–CPLG. ADPT., FL. ROMAC – FCA 501.
6. PRECAST CONC. VAULT BY UTILITY VAULT CO. (577–LA.) WITH TWO DIAMOND PLATE DOORS RATED FOR H–30 LOADING W/ 8" OFFSET, SEE NOTE 7.
7. WELDED FL. RESTRAINT OR MEGALUG MID–SPAN RESTRAINT AND THRUST BLOCK ADJACENT TO VAULT STANDARD DETAIL W–56.
8. CONNECT THE FOLLOWING TO METER TEST PORT. 1–2" BRASS NIPPLE, M.I.P.T. x M.I.P.T. AND 2" F.I.P.T. x 2 1/2" M.N.S.T. PLUS CAP (2 1/2" M.N.S.T.), 6" LONG 1–2" BALL VALVE, F.I.P.T. X M.I.P.T. FORD B81–777
9. 1–GALVANIZED STEEL LADDER TO BE ATTACHED TO VAULT. SEE NOTE 11.
10. TR/PL SENSOR (TO MOUNT IN VAULT ACCESS DOOR).

PLAN

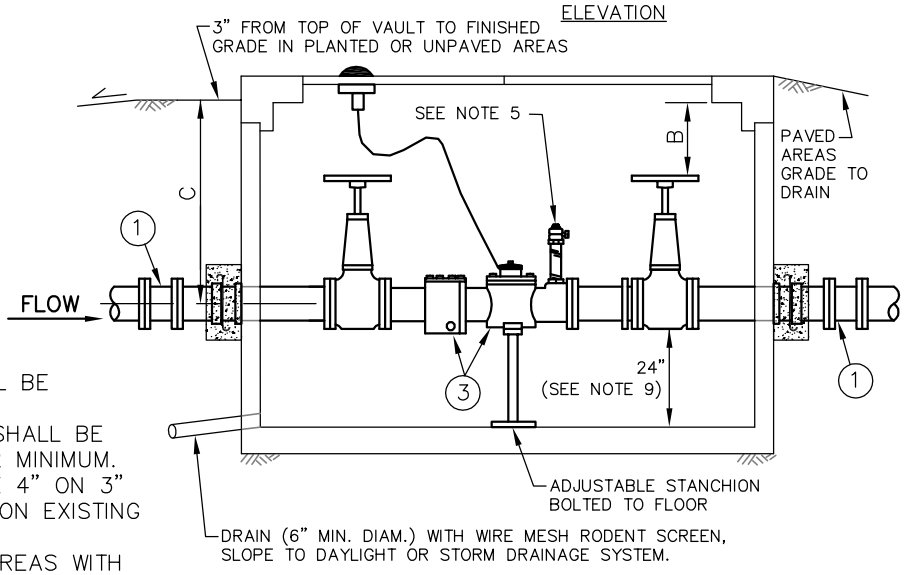


8. MINIMUM 2' OF LEVEL, UNOBSTRUCTED AREA AROUND HATCHES.
9. PROVIDE 24" CLEARANCE BETWEEN VAULT FLOOR & BOTTOM OF METER, WHERE ELEVATION OF VAULT FLOOR IS TOO LOW TO DRAIN TO DAYLIGHT OR STORM SYSTEM. THIS CLEARANCE CAN BE REDUCED TO A MINIMUM OF 12", IF SUBSTITUTION OF A SHORTER VAULT ALLOWS FLOOR TO DRAIN TO DAYLIGHT OR STORM SYSTEM (APPROVED BY THE UTILITY ON A CASE BY CASE BASIS ONLY.) SUBSTITUTE VAULT AS FOLLOWS: 575–LA WITH LW PRODUCTS HHD–48"x48" COVER (WITH SPECIAL OFFSET) ALLOWED ONLY ON 3" AND 4" METERS.
10. PROVIDE 2 1/4" DIAM. OPENING IN ALUMINUM HATCH DOOR FOR TR/PL SENSOR.
11. LADDER TO BE BOLTED TO VAULT FLOOR AND TO VAULT WALL AT THREE LOCATIONS. RUNGS SHALL BE SPACED AT 12" ON CENTER. LADDER SHALL INCLUDE BILCO MODEL LU–2 LADDER–UP. SEE DETAIL 19.
12. A FULL FLOW BYPASS MAY BE REQUIRED, DEPENDING ON APPLICATION. TO BE DETERMINED BY THE CITY.



* COVER MODIFIED PER NOTE 7.

ELEVATION



NOTES:

1. ALL MATERIALS INCLUDING METER SHALL BE FURNISHED BY CONTRACTOR.
2. ALL PIPE & FITTINGS 3" AND LARGER SHALL BE CEMENT LINED DUCTILE IRON, CLASS 52 MINIMUM.
3. PIPING FROM MAIN TO VAULT SHALL BE 4" ON 3" METER INSTALLATION. TEE WITH VALVE ON EXISTING MAIN REQUIRED.
4. VAULTS SHALL NOT BE INSTALLED IN AREAS WITH VEHICULAR TRAFFIC.
5. TEST PORT NOZZLE SHALL BE DIRECTED UPWARD UNLESS OTHERWISE DIRECTED, (SEE ITEM 8).
6. IN CENTRAL BUSINESS DISTRICT, CONNECT TO WATER MAIN WITH 8" PIPE. SUBSTITUTE 8" X SERVICE SIZE REDUCER, MJ, FOR ITEM 1 ON UPSTREAM SIDE OF VAULT.
7. VAULT COVER SHALL INCLUDE 2 LOCKING ALUMINUM LW HATCH DOORS (PART NO. HHD–48"x48") WITH SLIP RESISTANT TREATMENT PER SECTION W4–17 OF THE ENGINEERING STANDARDS. DOORS SHALL BE CAST IN COVER WITH 8" SPECIAL OFFSET FROM VAULT WALL, AS SHOWN. COVER TO READ "WATER".

METER SIZE	MAIN–LINE	CORP. STOP FOR METER TESTING SIZE	MINIMUM CLEARANCES			
			A	B	C	D
3"	4"D.I.	2"	10"	6"	2'–8"	9"
4"	4"D.I.	2"	12"	6"	2'–8"	9"
6"	6"D.I.	2"	13"	6"	3'–2"	6"

City of Bellevue

WATER UTILITY

TITLE

3" TO 6" IRRIGATION METER INSTALLATION

JANUARY 2013

NO SCALE

NO. W–35