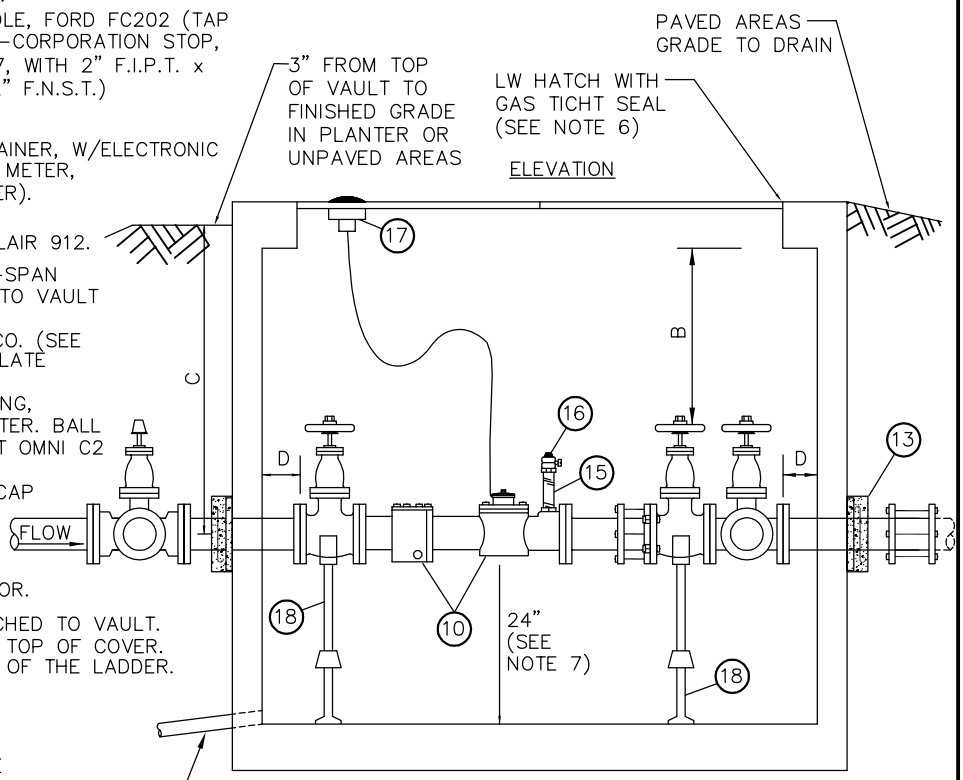
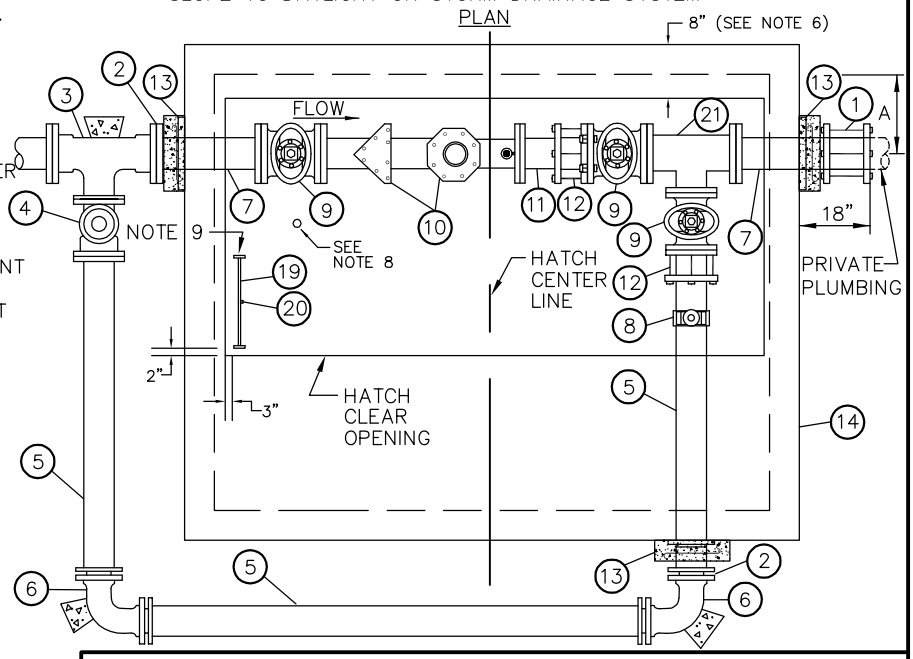
MATERIALS LIST – (ALL SIZES ARE SAME AS METER UNLESS OTHERWISE LISTED)

1. 1–MECH. CPLG. TO FIT, EQUAL TO ROMAC 501
2. 1–4"x3" REDUCER, P.E.xM.J. (FOR 3" SERVICE ONLY)
3. 1–TEE, M.J. x FL.
4. 1–GATE VALVE, F.L.x M.J. (W/VALVE BOX & COVER)
5. 3–D.I. PIPE, P.E., LENGTH AS REQUIRED
6. 2–90° BEND, M.J.
7. 2–D.I. PIPE, P.E.xFL., LENGTH AS REQUIRED.
8. 1–EPOXY OR NYLON COATED SERVICE SADDLE, FORD FC202 (TAP POINTED UP AT 12–O'CLOCK) OR EQUAL, 1–CORPORATION STOP, AWWA TAPER(CC) x M.I.P.T., FORD FB400–7, WITH 2" F.I.P.T. x 2 1/2" M.N.S.T. ADAPTOR AND CAP (2 1/2" F.N.S.T.)
9. 3–GATE VALVE, FL.
10. SENSUS OMNI C2 METER W/ INTERNAL STRAINER, W/ELECTRONIC RESOLUTION (100'S OF CUBIC FEET FOR 3" METER, 500 CUBIC FEET FOR 4–6" METER) REGISTER).
11. 1–D.I. ADAPTER FL. x P.E., LENGTH TO FIT.
12. 2–FL.xCPLG. ADAPTER, EQUAL TO SMITH–BLAIR 912.
13. WELDED FL. RESTRAINT OR MEGA–LUG MID–SPAN RESTRAINT AND THRUST BLOCK ADJACENT TO VAULT SEE STANDARD DETAIL W–56.
14. PRECAST CONC. VAULT BY UTILITY VAULT CO. (SEE TABLE FOR MODEL NO.) W/TWO DIAMOND PLATE DOORS RATED FOR H–30 LOADING.
15. 1–2" BRASS NIPPLE, M.I.P.T.xM.I.P.T., 6" LONG, CONNECT TO TEST PORT OF COMPOUND METER. BALL VALVE FORD FB1000 FIPTxFIPT SIZED TO FIT OMNI C2 FLUSHPORT.
16. 2" M.I.P.T. X 2 1/2" MNST ADAPTOR AND CAP (2 1/2" FNST).
17. TR/PL SENSOR (TO MOUNT IN VAULT ACCESS DOOR).
18. 2–ADJUSTABLE STANCHION BOLTED TO FLOOR.
19. 1–GALVANIZED STEEL LADDER TO BE ATTACHED TO VAULT. THE FIRST STEP SHALL BE MAX. 8" BELOW TOP OF COVER.
20. 1–BILCO LADDER UP, LU–2 MODEL AT TOP OF THE LADDER. SEE DETAIL W–19.
21. 1– TEE, FL.

METER SIZE	MAIN–LINE	BYPASS	CORP STOP FOR FLUSH PORT–SIZE	MIN. CLEARANCES				VAULT MODEL	VAULT COVER * (W/SPECIAL OFFSET)
				A	B	C	D		
3"	4"D.I.	4" D.I.	2"	10"	6"	2'–8"	6"	577–LA	57TL–2–332P
4"	4"D.I.	4" D.I.	2"	12"	6"	2'–8"	6"	676–WA	676–TW–2–332P
6"	6"D.I.	6" D.I.	2"	12"	6"	3'–2"	6"	4484–LA	4484–TL2–332P

* COVER MODIFIED PER NOTE 6.





NOTES:

1. ALL MATERIALS, INCLUDING METER SHALL BE FURNISHED BY CONTRACTOR.
2. ALL PIPE & FITTINGS 3" & LARGER SHALL BE CEMENT LINED DUCTILE IRON, CLASS 52 MINIMUM.
3. TEE WITH (3) GATE VALVES REQUIRED AT DISTRIBUTION MAIN.
4. VAULTS SHALL NOT BE INSTALLED IN AREAS W/VEHICULAR TRAFFIC.
5. IN CENTRAL BUSINESS DISTRICT, 3" THROUGH 6" METERS SHALL CONNECT TO WATER MAIN W/8" PIPE (SUBSTITUTE 8"xSERVICE SIZE REDUCER M.J.xP.E., AT UPSTREAM SIDE OF ITEM (3)).
6. VAULT COVER SHALL INCLUDE 2 LOCKING ALUMINUM LW HATCH DOORS (PART NO. HHD–36"x72") DOORS SHALL HAVE 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".
7. PROVIDE 24" CLEARANCE BETWEEN VAULT FLOOR & BOTTOM OF COMPOUND 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 VAULTS ARE AS FOLLOWS:
   3" 575–LA WITH 57TL–2–332P COVER (WITH SPECIAL OFFSET + LW ALUM. HATCH)
   4" 675–WA WITH 675–TW–2–332P COVER (WITH SPECIAL OFFSET + LW ALUM. HATCH)
8. PROVIDE 2 1/4" DIAM. OPENING IN ALUMINUM DOOR FOR TR/PL SENSOR.
9. LADDER TO BE BOLTED TO VAULT FLOOR AND TO VAULT WALL AT THREE LOCATIONS. RUNGS SHALL BE SPACED AT 12" ON CENTER.
10. ALL FITTINGS OUTSIDE VAULT SHALL INCLUDE THRUST BLOCKING AND JOINT RESTRAINT DEVICES.
11. PIPE, FITTINGS, VALVES OUTSIDE VAULT SHALL BE 4" FOR 3" SERVICE INSTALLATION.
12. MINIMUM 2' OF LEVEL, UNOBSTRUCTED AREA AROUND HATCHES.

JANUARY 2013 NO SCALE

City of Bellevue WATER UTILITY

TITLE

3" TO 6" DOMESTIC METER INSTALLATION

NO. W–33