MATERIALS LIST

- (1) 1-MECH. CPLG. TO FIT, EQUAL TO ROMAC 501 OR MJ SLEEVE
- (2) 1-4"x3" REDUCER, P.E.xM.J. (FOR 3" SERVICE ONLY)
- (3) 1–TEE, R.J. x FL.
- (4) 1-GATE VALVE, F.L.x R.J. (W/VALVE BOX & COVER)
- (5) 3-D.I. PIPE, P.E., LENGTH AS REQUIRED
- (6) 2-90° BEND, R.J.
- (7) 2-D.I. PIPE, P.E.xFL., LENGTH AS REQUIRED.
- (8) 1-EPOXY OR NYLON COATED 4" X 2" (CC) SERVICE SADDLE, FORD FC202 (TAP POINTED UP AT 12-0'CLOCK) OR APPROVED EQUAL, 1-2" 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. BRASS ADAPTOR AND CAP (2 1/2" F.N.S.T.), OR APPROVED EQUAL.
- (9) 3-GATE VALVE, FL.
- (10) SENSUS OMNI C2 METER W/ INTERNAL STRAINER, W/ELECTRONIC
- RESOLUTION (100'S OF CUBIC FEET) REGISTER.
- (11) 1–D.I. ADAPTER FL. x P.E., LENGTH TO FIT.
- (12) 2-FL.xCPLG. ADAPTER, SMITH-BLAIR 912, RESTRAINED FCA, OR APPROVED EQUAL.
- (13) 2-WELDED FL. RESTRAINT OR MEGA-LUG MID-SPAN RESTRAINT AND THRUST BLOCK ADJACENT TO VAULT
- SEE STANDARD DETAIL W-56.
 PRECAST CONC. VAULT W/ TWO DIAMOND PLATE DOORS RATED FOR H-30 LOADING. VAULT COVER SHALL INCLUDE 2 LOCKING ALUMINUM LW HATCH DOORS (PART NO. HHD-36"x72" OR APPROVED EQUAL) 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".
- (5) 1-1 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, OR APPROVED EQUAL.
- (16) 1-1 1/2" M.I.P.T. X 2 1/2" M.N.S.T. BRASS ADAPTOR AND CAP (2 1/2" F.N.S.T.)
- (17) TR/PL SENSOR (TO MOUNT IN VAULT
- ACCESS DOOR).
- (18) 2-ADJUSTABLE STANCHION BOLTED TO FLOOR.
- (9) 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, OR APPROVED EQUAL,

- AT TOP OF THE LADDER. SEE DETAIL W-19. (21) 1- TEE, FL.

VAULT REQUIRMENTS

- MINIMUM DESIGN STRUCTURAL LOADING SHALL BE H-20 LOADING COMPLY WITH ASTMC-857 AND ASTM C-890.
- ALL PRECAST CONCRETE PRODUCTS SHALL BE MANUFACTURED BY AN NPCA-CERTIFIED PLANT. 2.
- VAULT ASSEMBLIES (WALLS, BASES AND COVERS) SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C-858 AND ASTM 3. C - 913
- REINFORCING STEEL BARS SHALL CONFORM TO ASTM A-615. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-1064.
- GASKET MATERIAL SHALL CONFORM TO ASTM C-443. 6.
- END WALLS FOR WATER PIPE PENETRATIONS SHALL BE CAST WITHOUT KNOCK-OUTS.
- ALL WALL, FLOOR AND LID PENETRATIONS SHALL BE CORE DRILLED OR INTEGRALLY CAST. 8
- VAULT ASSEMBLIES SHALL CONSIST OF 1). A COVER AND INTEGRALLY CAST BASE AND WALL UNIT; OR 2). INDIVIDUALLY CAST BASE, WALL AND COVER SECTIONS. 10. ALL VAULTS SHALL BE WATERTIGHT AND BE FREE OF ANY VISIBLE LEAKS.
- 11. THE REPAIR OF ANY LEAKS SHALL BE IN ACCORDANCE WITH THE VAULT MANUFACTURER'S WRITTEN RECOMMENDATIONS ...
- 12. A MANUFACTURER'S CERTIFICATION OF COMPLIANCE WITH THESE REQUIREMENTS SHALL BE PROVIDED FOR EACH TYPE OF PRODUCT FURNISHED FOR INSTALLATION.
- 13. VAULT SHALL HAVE COAL TAR COATING OF 5 TO 9 MILS APPLIED TO THE EXTERIOR.

4-INCH METER VAULT INTERIOR CLEAR DIMENSIONS:

	MIN.	MAX.		
LENGTH WIDTH HEIGHT	6'-10" 5'-4" 6'-0"	7'-2" 5'-8" 7'-0"		City of water utility Bellevue
				TITLE 4" DOMESTIC METER MATERIALS LIST AND VAULT REQUIREMENTS
JANUARY	2024		NO SCALE	NO. <u>W-33d</u>

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 DISTRIBUTIÓN MAIN.
- 4. VAULTS SHALL NOT BE INSTALLED IN AREAS W/VEHICULAR TRAFFIC.
- 5. 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".
- 6. PROVIDE 2 1/4" DIAM. OPENING IN ALUMINUM DOOR FOR TR/PL SENSOR.
- 7. LADDER TO BE BOLTED TO VAULT FLOOR AND TO VAULT WALL AT THREE LOCATIONS. RUNGS SHALL BE SPACED AT 12" ON CENTER. 8. ALL FITTINGS OUTSIDE VAULT SHALL INCLUDE
- JOINT RESTRAINT DEVICES.