NOTES:
A. ALL FLANGE HARDWARE (BOLT, WASHER, NUT) SHALL BE STAINLESS STEEL - TYPE 304 WITH ANTI-SEIZE COMPOUND.
B. ALL PIPE SHALL BE RESTRAINED FROM TAP TO PROPERTY LINE VALVE.
C. VAULT SHALL BE RATED FOR NCSS' HS-20 LOADING - SUBMIT SHOP DRAWINGS / P.E. SEALED FOR REVIEW.
D. ALL CONCRETE SHALL BE MINIMUM 4000 PSI COMpressive STRENGTH.
E. DESIGN SHALL CONFORM TO ASTM C695 - SPECIFICATIONS FOR "UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURE".
F. STEEL REINFORCING DESIGN SHALL CONFORM TO ASTM C166.
G. REBARS SHALL BE GR40 IN PER ASTM A615.
H. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A156.
I. DIAGONAL REINFORCING SHALL BE ADDED AT ALL OPENINGS.
J. PIPE PENETRATIONS SHALL BE SEALED WITH FLEXIBLE CONNECTORS (RUBBER OR WITH 4-INCHES OF BRICK OR MORTAR AND 1/2 INCH THICK CONSTRUCTION EXPANSION MATERIAL).
K. FRAME TO BE FLUSH WITH GROUND ON CONCRETE SIDEWALK, GROUND SHALL SLOPE AWAY FROM VAULT.
L. ALL JOINTS SHALL BE MADE WATER-TIGHT USING 2 RINGS OF BUTYL RUBBER JOINT VAStIC.

NO. ALTERNATE DESCRIPTION
1. EXISTING OR PROPOSED WATER MAIN
2. TAPPING SADDLE AND 2" BALL CORPORATION STOP (CC TAPER THREAD X IPS COMPRESSION)
3. STANDARD VALVE BOX ASSEMBLY (TYPE) - ALL VALVES (6" AT CORPORATION STOP ON SHORT SIDE SERVICE)
4. "T" TYPE COPPER TUBING
5. 2" BALL VALVE (GTS COMPRESSION X IPS)
6. 2" RED BRASS PIPE NIPPLE (L = 3'0" OR 3'6")
7. 2" BRASS METER SETTER ASSEMBLY - FORD #49-73-931-11, MUELLER #1006 243243, CAMBRIDGE #0235-7167877 - UDS OR MCDONALD #2087178771, NO SOLDER JOINTS PERMITTED.
8. 3/4" SCH 40 RED BRASS NIPPLE (L = 18") x 2 EACH.
9. 2" WATER METER ASSEMBLY WITH AIR ERT TRANSMITTER (BY CONTRACTOR).
10. 1" BYPASS BALL VALVE WITH LOCK WINGS - LOCK VALVE IN CLOSED POSITION (PERMANENT STUD LOCK, FURNISHED BY CMSD)
11. "T" TYPE COPPER TUBING TAP PIECE - L. = 24" INCH - CAP END.
12. PRECAST CONCRETE SERVICE VAULT - (36" x 24" x 27")
13. 4" DIAMETER SUMP HOLE.
14. 4" COMPACTED #7 OR NO.6 WASHED STONE.
15. MINIMUM OF 3" STANDARD SOLID CONCRETE BRICK COURSES UNDER ACCESS DOOR FRAME. MAXIMUM 2 FT.
16. 24" x 36" ACCESS DOOR - SEE STANDARD DETAIL.
17. AIR ERT TRANSMITTER.
18. 3/8" DIAMETER VALVE, STEEL EYE BOLT (ADHESIVE ANCHOR) - TYPICAL.
19. AWS #12 GAUGE COPPER TRACER WIRE (THHN) - WITH BLUE INSULATION TERMINATE WITH 24" EXCESS WIRE (COILED) AT EYE BOLT AND VALVE BOX (TYP).
20. CAST IN-PLACE CONCRETE SIDEWALK - BRICK WORK SHALL NOT EXTEND 12 SURFACES, ACCESS DOOR SHALL REST ON SIDEWALK.

Typical Plan

Alternate in Concrete Sidewalk

Typical Elevation

Section View