

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 NCDOT HS-20 LOADING - SUBMIT SHOP DRAWINGS / P.E. SEALED FOR REVIEW.

D. ALL CONCRETE SHALL BE MINIMUM 3,600 PSI COMPRESSIVE STRENGTH.

E. DESIGN SHALL CONFORM TO ASTM C858 - SPECIFICATIONS FOR "UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURE".
- F. STEEL REINFORCING DESIGN SHALL CONFORM TO ASTM C857.

G. REBARS SHALL BE GRADE 60 PER ASTM A615.

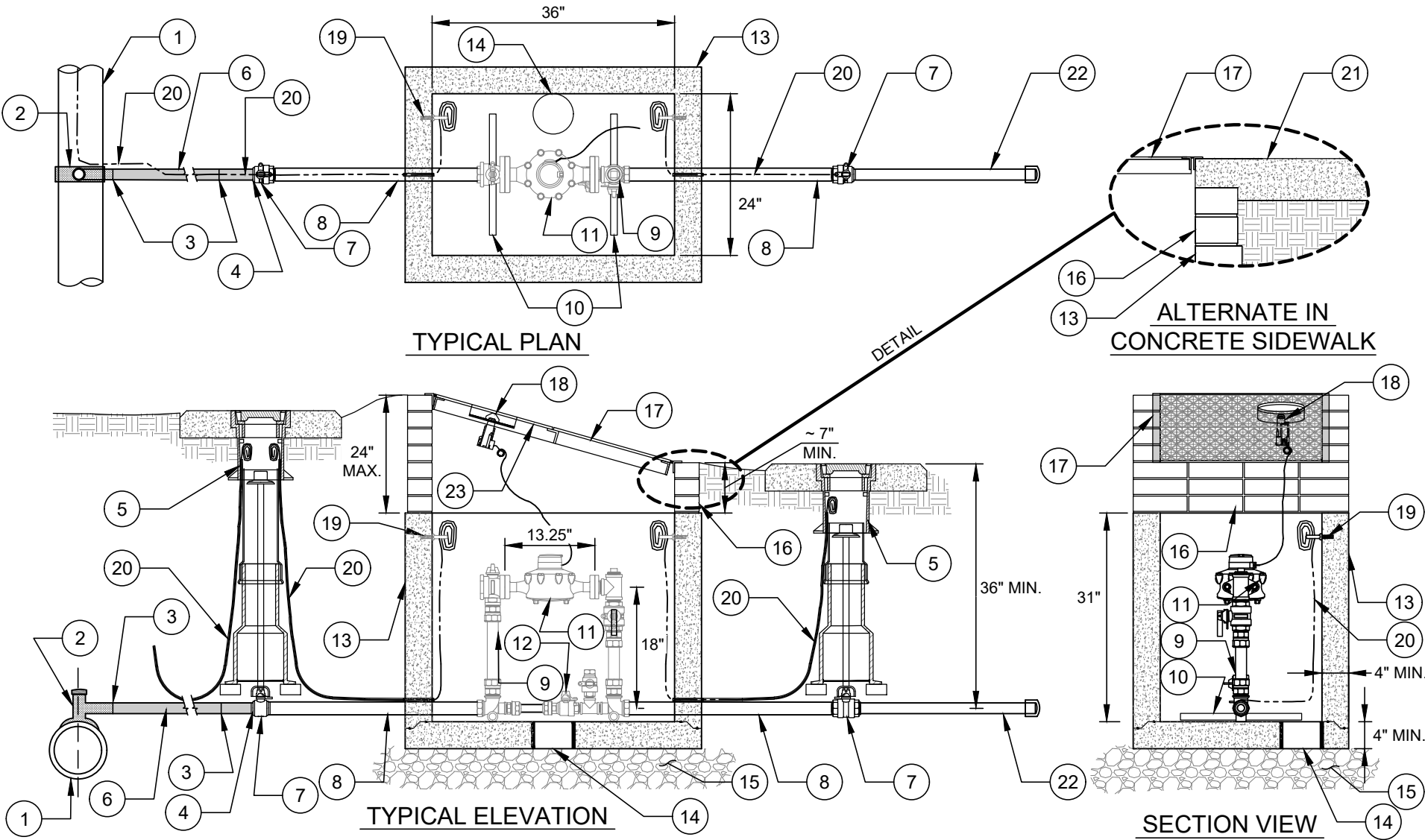
H. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.

I. DIAGONAL REINFORCING SHALL BE ADDED AT ALL OPENINGS.

J. PIPE PENETRATIONS SHALL BE SEALED WITH FLEXIBLE CONNECTERS (MANHOLE BOOTS) OR WITH 4" OF BRICK & MORTAR (AND 1/2-INCH THICK CONSTRUCTION EXPANSION MATERIAL AROUND THE PIPE).

K. FRAME TO BE FLUSH WITH GROUND OR CONCRETE SIDEWALK, GROUND SHALL SLOPE AWAY FROM VAULT.
- L. ALL JOINTS SHALL BE MADE WATERTIGHT USING 2 RINGS OF BUTYL RUBBER JOINT MASTIC.

M. ALTERNATE TO BRICK USE CRETEX PRORING 36x24 POLYPROPYLENE ADJUSTMENT RING(S). MUST USE MANUFACTURER APPROVED M-1 OR RAPID SET ADHESIVE.



NO.	DESCRIPTION:
1.	HDPE WATER MAIN.
2.	HDPE SERVICE TAPPING SADDLE WITH T-HEAD OPERATING NUT, AND CAP AND CUTTER.
3.	HDPE BUTT FUSION JOINT.
4.	BUTT FUSION X THREADED (MNPT) ADAPTER.
5.	STANDARD VALVE BOX ASSEMBLY (TYP.) - ALL VALVES (OMIT AT CORPORATION STOP ON SHORT SIDE SERVICE).
6.	1 1/2" SDR-9 IPS HDPE PIPE.
7.	1 1/2" BRASS BALL VALVE (FNPT X FNPT).
8.	1 1/2" RED BRASS PIPE NIPPLE (L = 30").
9.	1 1/2" BRASS METER SETTER ASSEMBLY - NO SOLDER JOINTS PERMITTED. SEE TECHNICAL SPECIFICATIONS.
10.	1" SCH 40 RED BRASS NIPPLE (L = 18") X 2 EACH.
11.	1 1/2" WATER METER ASSEMBLY WITH AMR TRANSMITTER (BY CONTRACTOR).
12.	BY PASS BALL VALVE WITH LOCK WINGS - LOCK VALVE IN CLOSED POSITION (SERIAL NUMBERED STUD LOCK - FURNISHED BY CLTW).
13.	PRECAST CONCRETE SERVICE VAULT (36" X 24" X 31").
14.	6" DIAMETER SUMP HOLE.
15.	6" COMPACTED #57 WASHED STONE.
16.	MINIMUM OF (3) STANDARD SOLID CONCRETE BRICK COURSES UNDER ACCESS DOOR FRAME, MAXIMUM 2'. SEE NOTE M.
17.	24" X 36" ACCESS DOOR - SEE STANDARD DETAIL.
18.	AMR TRANSMITTER.
19.	3/8" DIAMETER GALV. STEEL EYE BOLT (ADHESIVE ANCHOR) - TYPICAL.
20.	AWG #12 GAUGE SOLID COPPER TRACER WIRE 30 MILS BLUE HDPE INSTALLATION - TERMINATE WITH 24" EXCESS WIRE (COILED) AT EYE BOLT AND VALVE BOX (TYP.).
21.	CAST IN PLACE CONCRETE SIDEWALK - BRICK WORK SHALL NOT EXTEND TO SURFACE, ACCESS DOOR SHALL REST ON SIDEWALK.
22.	1 1/2" TYPE K COPPER TUBING TAIL PIECE - L = 24" MIN. - BRASS OR PVC CAP END.
23.	ATTACH ENGRAVED LABEL, WITH PREMISE NUMBER, TO UNDERSIDE OF DOOR, NEAR THE LIFTING HANDLE.