

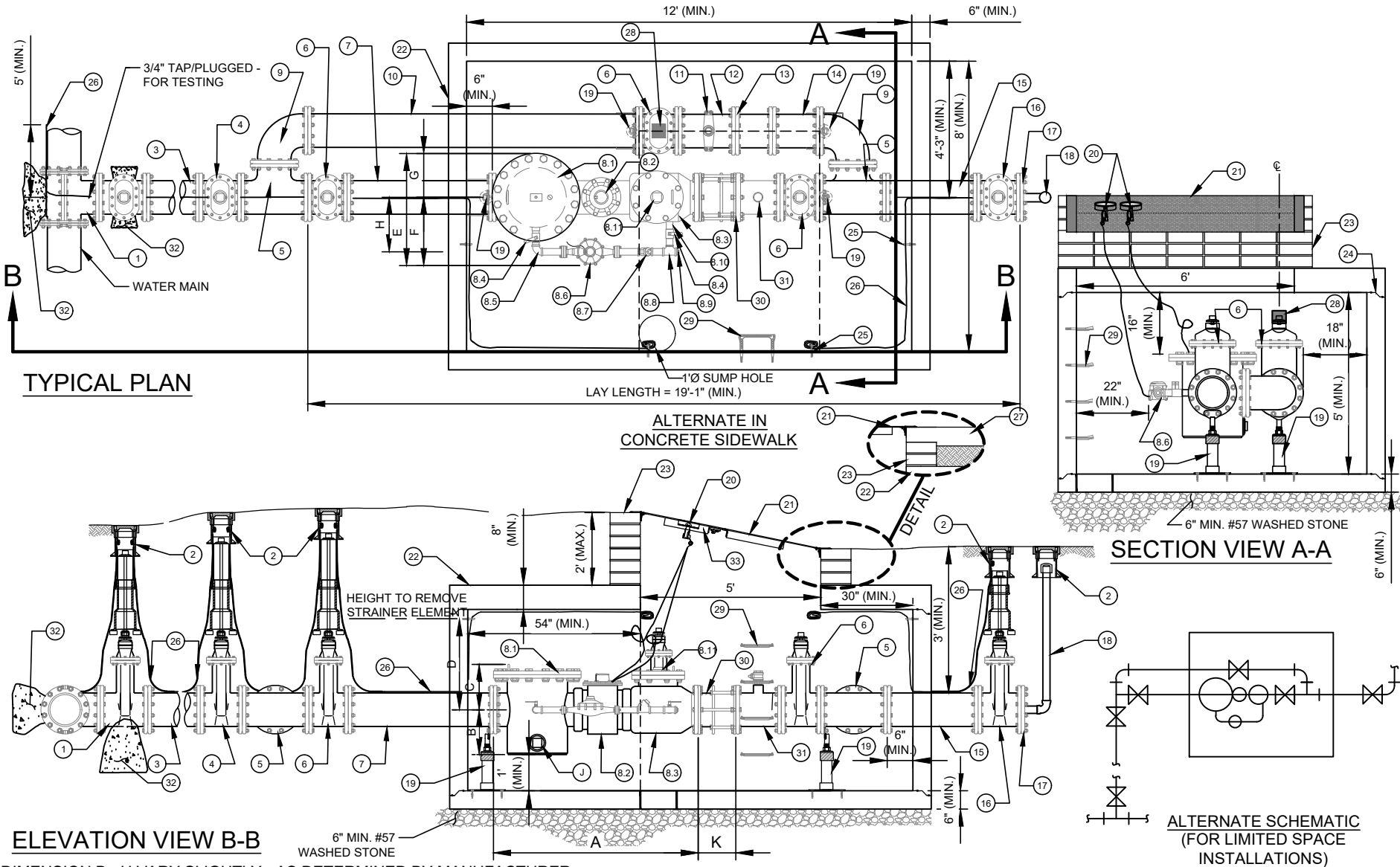
NOTES:

- A. ALL FLANGE HARDWARE (BOLT/WASHER/NUT) SHALL BE STAINLESS STEEL - TYPE 304 WITH ANTI-SEIZE COMPOUND.
B. ALL PIPE SHALL BE RESTRAINED JOINT DUCTILE IRON FROM TAP TO PROPERTY LINE VALVE.
C. METER CONFIGURATION AND LENGTH / WIDTH MAY VARY DUE TO BRAND - VERIFY DIMENSIONS TO DETERMINE MINIMUM VAULT SIZE.
D. VAULT SHALL BE SIZED AS NEEDED FOR MINIMUM CLEARANCE AS SHOWN AND RATED FOR NCDOT HS-20 LOADING - SUBMIT SHOP DRAWINGS / P.E. SEALED FOR REVIEW.
E. ALL CONCRETE SHALL BE MINIMUM 4,000 PSI COMPRESSIVE STRENGTH.
F. DESIGN SHALL CONFORM TO ASTM C858 - SPECIFICATIONS FOR "UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURE".

- G. STEEL REINFORCING DESIGN SHALL CONFORM TO ASTM C857.
H. REBARS SHALL BE GRADE 60 PER ASTM A615.
I. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
J. DIAGONAL REINFORCING SHALL BE ADDED AT ALL OPENINGS.
K. PIPE PENETRATIONS SHALL BE SEALED WITH FLEXIBLE CONNECTORS (MANHOLE BOOTS) OR WITH 8" OF BRICK & MORTAR (AND 1/2-INCH THICK CONSTRUCTION EXPANSION MATERIAL).
L. FRAME TO BE FLUSH WITH GROUND OR CONCRETE SIDEWALK, GROUND SHALL SLOPE AWAY FROM VAULT.
M. ALL JOINTS SHALL BE MADE WATERTIGHT USING 2 RINGS OF BUTYL RUBBER JOINT MASTIC.
N. ALL VALVES SHALL BE OPEN RIGHT - CLOCKWISE, EXCEPT NO. 16.
O. PRECAST VAULT COMPONENTS SHALL HAVE MARKINGS PER ASTM C478 REQUIREMENTS.

NO. DESCRIPTION:

- 10" OUTLET TAPPING SLEEVE AND 10" FL X MJ TAPPING VALVE ON EXISTING MAIN. 10" MJ OUTLET TEE, 10" FOSTER ADAPTOR AND 10" MJ GATE VALVE ON NEW MAIN AND FOSTER ADAPTER. STANDARD VALVE BOX ASSEMBLY (TYPICAL) - ALL VALVES.
- 10" DUCTILE IRON PIPE - RESTRAINED.
- 10" MJ X FL DUCTILE IRON ADAPTER ON SHORT SIDE SERVICE (NOT SHOWN), 10" MJ X FL GATE VALVE ON LONG SIDE SERVICE (SHOWN).
- 10" ALL FLANGE DUCTILE IRON TEE.
- 10" ALL FLANGE GATE VALVE.
- 10" ALL FLANGE DUCTILE IRON PIPE SPOOL - L = 48" (MIN.) (SPECIAL CLASS 53).
- 10" FMCT METER ASSEMBLY (FLANGE X FLANGE)
 1. STRAINER.
 2. METER WITH AMR TRANSMITTER.
 3. CHECK VALVE.
 4. 2" BRASS BALL VALVE WITH HANDLE (FNPT X FNPT).
 5. 2" BRASS 90° BEND (FNPT X FNPT).
 6. 2" METER (2 BOLT METER FL - EACH END) WITH AMR TRANSMITTER.
 7. 2" BRONZE CHECK VALVE (FNPT X FNPT).
 8. 2" BRONZE TEE (FNPT X FNPT X FNPT).
 9. 2" SQUARE HEAD BRONZE PLUG (MNPT).
 10. 2" RED BRASS PIPE NIPPLES (TYP. - AS REQUIRED) - (MNPT X MNPT).
 11. 2" (MIN.) SQUARE HEAD BRASS PLUG (MNPT).
- 10" DUCTILE IRON 90° BEND FLANGE X FLANGE.
- 10" DUCTILE IRON PIPE - FLANGE X FLANGE SPOOL - L = 117.5" (MIN.) (SPECIAL CLASS 53).
- 10" X 1 1/2" SERVICE SADDLE WITH 1 1/2" BALL CORPORATION STOP - CC - TAPER THREAD.
- 10" DUCTILE IRON PIPE - FLANGE X PE - L = 20" (MIN.) (SPECIAL CLASS 53).
- 10" MECHANICAL JOINT DUCTILE IRON LONG PATTERN SOLID SLEEVE WITH RESTRAINED JOINT.
- 10" DUCTILE IRON PIPE - FLANGE X PE - L = 14" (MIN.) (SPECIAL CLASS 53).
- 10" DUCTILE IRON PIPE - FLANGE X PE - L = 30" (MIN.) (SPECIAL CLASS 53).
- 10" MECHANICAL JOINT (RJ) GATE VALVE - OPEN LEFT AT PROPERTY LINE.
- 10" MECHANICAL JOINT PLUG WITH 2" TAP (FNPT).
- 2" TEMPORARY BLOW OFF ASSEMBLY (GALV. STEEL (SCH 80) - END WITH THREADED COUPLING).
- GALV. STEEL OR S.S. ADJUSTABLE FLANGE PIPE SUPPORTS (NUMBER REQUIRED = 4) (WITH STAINLESS STEEL ADHESIVE ANCHORS).
- AMR TRANSMITTERS.
- 5' X 6' ACCESS DOOR - SEE STD. DETAIL.
- PRECAST REINFORCED CONCRETE VAULT - 12' X 8' X 5' (MIN.). SEE NOTES C AND D.
- MINIMUM OF THREE STD. SOLID CONCRETE BRICK COURSES UNDER ACCESS DOOR FRAME - MAX. 2'.
- JOINT REQUIRED AT FLAT TOP SECTION.
- 3/8" DIA. GALV. STEEL EYE BOLT (EPOXY ADHESIVE ANCHOR) - TYPICAL.
- AWG #12 GAUGE SOLID COPPER TRACER WIRE - WITH BLUE INSULATION (30 MILS HDPE) TERMINATE WITH 24" EXCESS WIRE (COILED) AT EYE BOLT AND VALVE BOX (TYPICAL).
- CAST IN PLACE CONCRETE SIDEWALK - BRICKWORK SHALL NOT EXTEND TO SURFACE. ACCESS DOOR FRAME SHALL REST ON SIDEWALK.
- VALVE LOCK AND WARNING TAG (FURNISHED BY CLTW) - LOCK VALVE CLOSED.
- PLASTIC STEP - 12" O.C. VERTICAL SPACING.
- 10" DISMANTLING JOINT (RESTRAINED) - ROMAC DJ400 - LL = 9.5" TO 11.5", SET TO 10.5" OR SMITH-BLAIR #975 - LL = 9" TO 11", SET TO 10". ALL HARDWARE, BOLTS, NUTS AND TIE RODS SHALL BE 304 S.S.
- 10" EPOXY COATED/LINED STEEL FL X FL SPOOL WITH 2" FNPT TEST OUTLET - LL = 12" (MARS CO.) AND 2" BALL CORPORATION STOP WITH T-HEAD OPERATING NUT - MNPT X FNPT.
- CONCRETE THRUST BLOCKING - 3,600 PSI.
- ATTACH ENGRAVED LABEL, WITH PREMISE NUMBER, TO UNDERSIDE OF DOOR, NEAR THE LIFTING HANDLE.



ELEVATION VIEW B-B

DIMENSION B - H VARY SLIGHTLY - AS DETERMINED BY MANUFACTURER.

METER SIZE	A	B	C	D	E	F	G	H	J	K
10"	68"	14 13/16"	15"	30 1/16"	36 1/4"	22 1/2"	13 3/4"	18"	3"	SMITH-BLAIR = 10" ROMAC = 10.5"