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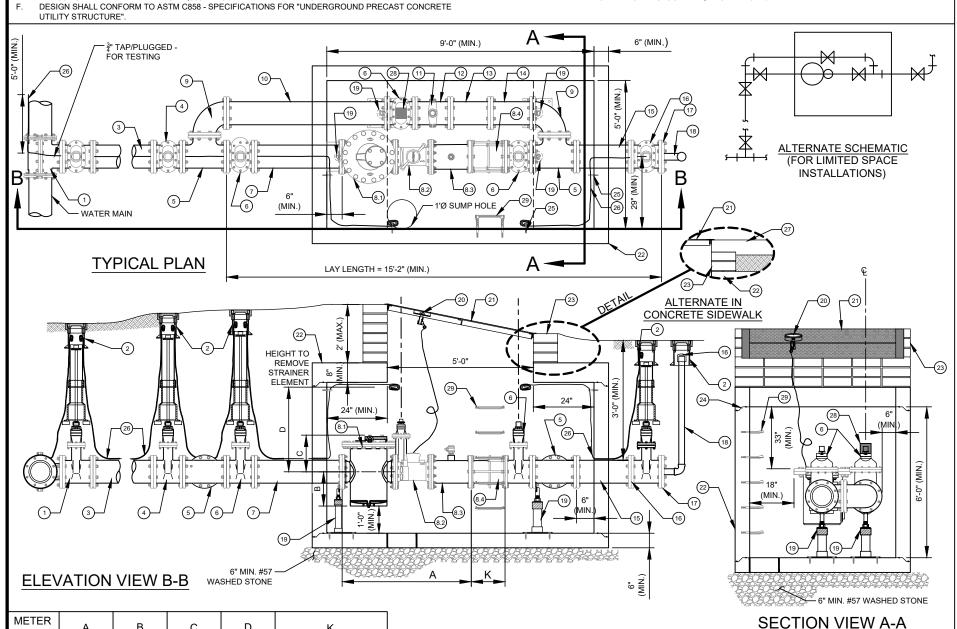
VERSION 1.0 DATE

8/2021

DETAIL

GGG

- STEEL REINFORCING DESIGN SHALL CONFORM TO ASTM C857.
- REBAR SHALL BE GRADE 60 PER ASTM A615.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- DIAGONAL REINFORCING SHALL BE ADDED AT ALL OPENINGS.
- PIPE PENETRATIONS SHALL BE SEALED WITH FLEXIBLE CONNECTORS (MANHOLE BOOTS) OR WITH 8-INCHES OF BRICK & MORTAR (AND 1/2 INCH THICK CONSTRUCTION EXPANSION MATERIAL).
- FRAME TO BE FLUSH WITH GROUND OR CONCRETE SIDEWALK, GROUND SHALL SLOPE AWAY FROM VAULT.
- 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.



ALL FLANGE HARDWARE (BOLT/WASHER/NUT) SHALL BE STAINLESS STEEL - TYPE 304 WITH ANTI-SEIZE

VAULT SHALL BE SIZED AS NEEDED FOR MINIMUM CLEARANCE AS SHOWN AND RATED FOR NCDOT HS-20

METER CONFIGURATION AND LENGTH / WIDTH MAY VARY DUE TO BRAND - VERIFY DIMENSIONS TO

ALL PIPE SHALL BE RESTRAINED JOINT DUCTILE IRON FROM TAP TO PROPERTY LINE VALVE.

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

В

14.8"

SIZE

50.7"

С

12.2"

D

44.2"

Κ

SMITH-BLAIR = 9"

ROMAC = 9"

ALL CONCRETE SHALL BE MINIMUM 4.000 PSI COMPRESSIVE STRENGTH.

COMPOUND.

DETERMINE MINIMUM VAULT SIZE

- 8" OUTLET TAPPING SLEEVE AND 8" FL x MJ TAPPING VALVE ON EXISTING MAIN. 8" MECHANICAL JOINT OUTLET TEE, 8" FOSTER ADAPTOR AND 8" MJ GATE VALVE ON NEW MAIN.
- STANDARD VALVE BOX ASSEMBLY (TYPICAL) ALL VALVES.
- 3. 8" DUCTILE IRON PIPE - RESTRAINED.
- 8" MJ x FL DUCTILE IRON ADAPTER ON SHORT SIDE SERVICE (NOT SHOWN), 8" MJ xFL GATE VALVE ON LONG SIDE SERVICE (SHOWN).
- 8" ALL FLANGE DUCTILE IRON TEE.
- 6. 8" ALL FLANGE GATE VALVE.

NO. DESCRIPTION:

- 8" ALL FLANGE DUCTILE IRON PIPE SPOOL L = 40" (MIN.) (SPECIAL CLASS 53).
- 8" ULTRASONIC WATER METER ASSEMBLY (FLANGE x FLANGE) BERMAD MODEL FP-60F-D FIRE RATED BASKET STRAINER (FL x FL). LL = 18.7 INCHES
- MASTER METER 8-INCH OCTAVE ULTRASONIC WATER METER WITH ITRON W100 TRANSMITTER - LL = 20 INCHES.
- 8" EPOXY COATED/LINED STEEL FLANGE x FLANGE SPOOL WITH 2" FNPT TEST OUTLET - LL = 12 INCHES (MARS CO.) AND 2" BALL CORPORATION STOP WITH T-HEAD OPERATING NUT - MNPT x FNPT.
- ROMAC D J400 DISMANTLING JOINT LL = 7.38 TO 9.38 INCHES, SET TO 9 INCHES OR SMITH-BLAIR MODEL 975 DISMANTLING JOINT (RESTRAINED) - LL = 8.0 TO 10.0 INCHES, SET TO 9 INCHES.
- 8" DUCTILE IRON 90° BEND FLANGE x FLANGE.
- 8" DUCTILE IRON PIPE FLANGE x FLANGE SPOOL L = 75.5" (MIN.) (SPECIAL CLASS 53).
- 8" x 1 1/2" SERVICE SADDLE WITH 1 1/2" BALL CORPORATION STOP WITH T-HEAD OPERATING NUT - CC - TAPER THREAD x FNPT.
- 12. 8" DUCTILE IRON PIPE - FLANGE x PE - L = 24" (MIN.) (SPECIAL CLASS 53).
- 8" MECHANICAL JOINT DUCTILE IRON LONG PATTERN SOLID SLEEVE WITH RESTRAINED JOINT.
- 8" DUCTILE IRON PIPE FLANGE x PE L = 12" (MIN.) (SPECIAL CLASS 53).
- 15. 8" DUCTILE IRON PIPE - FLANGE x PE - L = 30" (MIN.) (SPECIAL CLASS 53).
- 8" MECHANICAL JOINT (RJ) GATE VALVE OPEN LEFT AT PROPERTY LINE.
- 8" MECHANICAL JOINT PLUG WITH 2" TAP (FNPT).
- 2" TEMPORARY BLOW OFF ASSEMBLY (GALV. STEEL (SCH 80) OR RED BRASS (SCH 40) - END WITH THREADED COUPLING).
- GALV. STEEL OR S.S. ADJUSTABLE FLANGE PIPE SUPPORTS (NUMBER REQUIRED = 4) (WITH STAINLESS STEEL ADHESIVE ANCHORS)
- 20. AMR TRANSMITTER.
- 5 FT x 5 FT ACCESS DOOR SEE STD. DETAIL
- PRECAST REINFORCED CONCRETE VAULT 9 FT x 5 FT x 6 FT (MIN.) (LxWxD). SEE NOTES C AND D.
- MINIMUM OF THREE STD. SOLID CONCRETE BRICK COURSES (OR PRECAST RISER) UNDER ACCESS DOOR FRAME - MAX. 2 FT
- JOINT REQUIRED AT FLAT TOP SECTION.
- 3/8" DIA. GALV. STEEL EYE BOLT (EPOXY ADHESIVE ANCHOR) -25. **TYPICAL**
- AWG #12 GAUGE SOLID COPPER TRACER WIRE WITH BLUE 26. INSULATION (30 MILS H.D.P.E.) TERMINATE WITH 24" EXCESS WIRE (COILED) AT EYE BOLT AND VALVE BOX (TYPICAL).
- CAST ÎN PLACÉ CONCRETE SIDEWALK BRICKWORK SHALL NOT EXTEND TO SURFACE. ACCESS DOOR FRAME SHALL REST ON SIDEWALK
- VALVE LOCK (FURNISHED BY CLTW) LOCK VALVE CLOSED.
- PLASTIC STEP 12" O.C. VERTICAL SPACING.