## NO. DESCRIPTION:

- 6" TAPPING SLEEVE AND 6" FL x MJ TAPPING VALVE ON EXISTING MAIN. 6" MECHANICAL JOINT OUTLET TEE. 6" FOSTER ADAPTOR, (OR SWIVEL TEE) AND 6" MJ GATE VALVE ON NEW MAIN
- 2. STANDARD VALVE BOX ASSEMBLY (TYPICAL) - ALL VALVES.
- 6" DUCTILE IRON PIPE RESTRAINED. 3.
- 6" MJ x FL DUCTILE IRON ADAPTER ON SHORT SIDE SERVICE (NOT SHOWN), 6" MJ x FL GATE VALVE ON LONG SIDE SERVICE (SHOWN).
- 6" ALL FLANGE DUCTILE IRON TEE.
- 6" ALL FLANGE GATE VALVE. 6.
- 6" ALL FLANGE DUCTILE IRON PIPE SPOOL L = 30" (MIN.) (SPECIAL CLASS 53).
- 6" ULTRASONIC WATER METER ASSEMBLY (FLANGE x FLANGE). BERMAD MODEL FP-60F-D FIRE RATED BASKET STRAINER (FL x FL). LL = 14.9 INCHES
- MASTER METER 6-INCH OCTAVE ULTRASONIC WATER
- METER WITH ITRON W100 TRANSMITTER LL = 18 INCHES. 6" 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
- 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
- 6" DUCTILE IRON 90° BEND FLANGE x FLANGE.

OPERATING NUT - MNPT x FNPT.

- 6" DUCTILE IRON PIPE FLANGE x FLANGE SPOOL L = 58.5" (MIN.) (SPECIAL CLASS 53).
- 6" x1 1/2" SERVICE SADDLE WITH 1 1/2" BALL CORPORATION STOP WITH T-HEAD OPERATING NUT - CC - TAPER THREAD x FNPT.
- 6" DUCTILE IRON PIPE FLANGE x PE L = 24" (MIN.) (SPECIAL CLASS 53).
- 6" MECHANICAL JOINT DUCTILE IRON LONG PATTERN SOLID SLEEVE WITH RESTRAINED JOINT.
- 6" DUCTILE IRON PIPE FLANGE x PE L = 12" (MIN.) (SPECIAL CLASS 53).
- 6" DUCTILE IRON PIPE FLANGE x PE L = 30" (MIN.) (SPECIAL CLASS 53).
- 6" MECHANICAL JOINT (RJ) GATE VALVE OPEN LEFT AT PROPERTY LINE.
- 6" 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 = 3) (WITH STAINLESS STEEL ADHESIVE ANCHORS).
- 20. AMR TRANSMITTER.
- 5 FT x 5 FT ACCESS DOOR SEE STD. DETAIL. 21
- PRECAST REINFORCED CONCRETE VAULT 8 FT x 5 FT x 5 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 INSULATION (30 MILS H.D.P.E.) 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
- VALVE LOCK (FURNISHED BY CLTW) LOCK VALVE CLOSED.
- PLASTIC STEP 12" O.C. VERTICAL SPACING.

ONCRETE SIDEWALK  STRAINER ELEMENT  ONCRETE SIDEWALK  (MIN.)  ONCRETE
18" (MIN)
HEIGHT TO REMOVE STRAINER ELEMENT  (MIN.)  (S)  (MIN.)  (MIN.)  (S)  (MIN.)  (S)  (MIN.)  (S)  (MIN.)  (MI
ELEVATION VIEW B-B 6" MIN. #57 WASHED STONE
<u> </u>
METER A B C D K
6" 44.9" 10.7" 10.8" 37.3" SMITH-BLAIR = 9" ROMAC = 9"

N.

<u>(12)</u> <u>(13)</u>

8'-0" (MIN.)

**—(11)** 

¬ (28)—

STEEL REINFORCING DESIGN SHALL CONFORM TO ASTM C857.

DIAGONAL REINFORCING SHALL BE ADDED AT ALL OPENINGS.

ALL VALVES SHALL BE OPEN RIGHT - CLOCKWISE, EXCEPT NO. 16.

6" (MIN.)

OF BRICK & MORTAR (AND 1/2 INCH THICK CONSTRUCTION EXPANSION MATERIAL).

ALL JOINTS SHALL BE MADE WATERTIGHT USING 2 RINGS OF BUTYL RUBBER JOINT MASTIC.

PIPE PENETRATIONS SHALL BE SEALED WITH FLEXIBLE CONNECTORS (MANHOLE BOOTS) OR WITH 8-INCHES

FRAME TO BE FLUSH WITH GROUND OR CONCRETE SIDEWALK, GROUND SHALL SLOPE AWAY FROM VAULT.

WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.

REBAR SHALL BE GRADE 60 PER ASTM A615.

NO SCALE VERSION 1.0 DATE 8/2021 DETAIL

FFF

0 ALTERNATE SCHEMATIC (FOR LIMITED SPACE INSTALLATIONS) В В 6" (MIN.) WATER MAIN **(26)** LAY LENGTH = 13'-6" (MIN.) TYPICAL PLAN ALTERNATE IN CONCRETE SIDEWAL

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

DESIGN SHALL CONFORM TO ASTM C858 - SPECIFICATIONS FOR "UNDERGROUND PRECAST CONCRETE

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

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

3" TAP/PLUGGED

FOR TESTING

ALL CONCRETE SHALL BE MINIMUM 4.000 PSI COMPRESSIVE STRENGTH.

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

COMPOUND.

UTILITY STRUCTURE".

DETERMINE MINIMUM VAULT SIZE