METER

SIZE

45"

11 1/16"

11 3/8"

- B. ALL PIPE SHALL BE RESTRAINED JOINT DUCTILE IRON FROM TAP TO PROPERTY LINE VALVE.
- 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 4000 PSI COMPRESSIVE STRENGTH.

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

29"

19 1/2"

9 1/2"

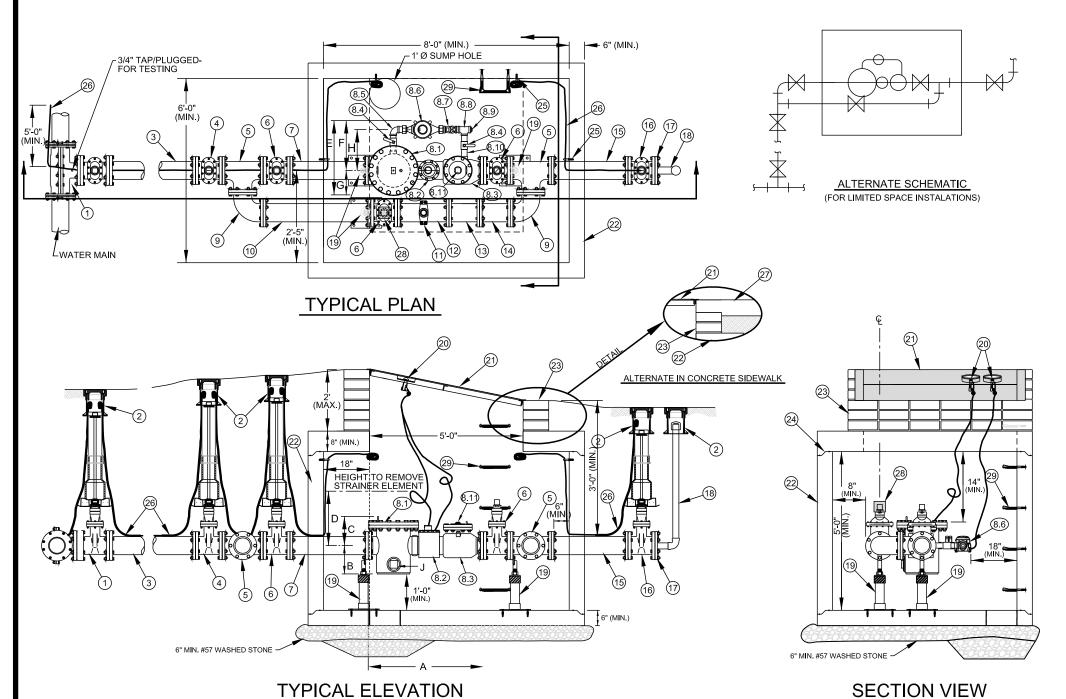
16"

D

21 1/4"

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
- 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 CONNECTERS (MANHOLE BOOTS) OR WITH 8-INCHES 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. (6)



8.11

2"

3"

DESCRIPTION

- 1 6" - TAPPING SLEEVE AND 6" FL x MJ TAPPING VALVE ON EXISTING MAIN. 6" MECHANICAL JOINT OUTLET TEE AND 6" MJ GATE VALVE ON NEW MAIN 4
- STANDARD VALVE BOX ASSEMBLY (TYPICAL) ALL VALVES
- 6" DUCTILE IRON PIPE RESTRAINED
- 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 5
- 6 6" ALL FLANGE GATE VALVE
- 6" ALL FLANGE DUCTILE IRON PIPE SPOOL L = 30" (MIN.) (SPECIAL
- 6" FMCT METER ASSEMBLY (FLANGE x FLANGE) SHOWN AS 6" x 2", MAY ALSO BE 6" x 1 1/2" - AS DETERMINED BY MANUFACTURER.
 - (8.1) STRAINER
 - (8.2) METER WITH AMR / TRANSMITTER
 - (8.3) CHECK VALVE
 - (8.4) 2" BRASS BALL VALVE WITH HANDLE (FNPT x FNPT)
 - (8.5) 2" BRASS 90° BEND (FNPT x FNPT)
 - (8.6) 2" METER (2 BOLT METER FL EACH END) WITH AMR / TRANSMITTER
 - (8.7) 2" BRONZE CHECK VALVE (FNPT x FNPT)
- (8.8) 2" BRONZE TEE (FNPT x FNPT x FNPT)
- (8.9) 2" BRONZE PLUG (MNPT)
- (8.10) 2" RED BRASS PIPE NIPPLES (TYP AS READ) (MNPT x MNPT)
- (8.11) 2" (MIN.) SQUARE HEAD BRASS PLUG (MNPT)
- 6" DUCTILE IRON 90° BEND FLANGE x FLANGE
- 10 6" DUCTILE IRON PIPE - FLANGE x FLANGE SPOOL - L = 42" (MIN.) (SPECIAL CLASS 53)
- 11 6" x 1 1/2" SERVICE SADDLE WITH 1 1/2" BALL CORPORATION STOP - CC -TAPER TREAD
- 6" DUCTILE IRON PIPE FLANGE x PE L = 24" (MIN.) (SPECIAL CLASS 53)
- 13 6" MECHANICAL JOINT DUCTILE IRON LONG PATTERN SOLID SLEEVE WITH RESTRAINED JOINT
- 6" DUCTILE IRON PIPE FLANGE x PE L = 18" (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), RED BRASS (SCH 40), HDPE (DR9) OR DIP - END WITH THREADED COUPLING)
- GALV. STEEL OR S.S. ADJUSTABLE FLANGE PIPE SUPPORTS (NUMBER REQ'D = 3) (WITH STAINLESS STEEL ADHESIVE ANCHORS)
- AMR TRANSMITTERS (ERT)
- 5 FT x 5 FT ACCESS DOOR SEE STD. DETAIL
- PRECAST REINFORCED CONCRETE VAULT 8 FT x 6 FT x 5 FT (MIN.) SEE NOTES C AND D.
- MINIMUM OF (3) STD. SOLID CONCRETE BRICK COURSES UNDER ACCESS DOOR FRAME - MAX. 2 FT.
- JOINT REQUIRED AT FLAT TOP SECTION 24
- 25 3/8" DIA. GALV. STEEL EYE BOLT (EPOXY ADHESIVE ANCHOR) - TYPICAL
- AWG #12 GAUGE COPPER TRACER WIRE (THWN) WITH BLUE INSULATION 26 TERMINATE WITH 24" EXCESS WIRE (COILED) AT EYE BOLT AND VALVE BOX (TYPICAL)
- CAST IN PLACE CONCRETE SIDEWALK BRICKWORK SHALL NOT EXTEND 27 TO SURFACE. ACCESS DOOR FRAME SHALL REST ON SIDEWALK.
- VALVE LOCK (FURNISHED BY CMUD) LOCK VALVE CLOSED.
- 29 PLASTIC STEP 12" OR 16" O.C. VERTICAL SPACING.

WATER CHARLOTTE-MECKLENBUR
UTILITIES

S

VAUL

CONCRETE

PRECAST

AND

ER

MET

(FMCT)

TYPE

COMPOUND

ETER

≥

FIRE

6-INCH