5'-0"

(MIN)

- B. ALL PIPE SHALL BE RESTRAINED JOINT DUCTILE IRON FROM TAP TO PROPERTY LINE VALVE.
- METER CONFIGURATION AND LENGTH MAY VARY DUE TO BRAND -VERIFY LENGTH TO DETERMINE MINIMUM VAULT LENGTH.
- VAULT SHALL BE SIZED AS NEEDED FOR PIPE (8.5'x4' MINIMUM) 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.

(MIN.)

2'-0" MIN.

(4)

1' Ø SUMP HOLE -

1' Ø SUMP HOLE

18" (MIN.)

ELEVATION

PLAN

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

3/4" TAP/PLUGGED-

WATER MAIN

6" MIN. #57 WASHED STONE -

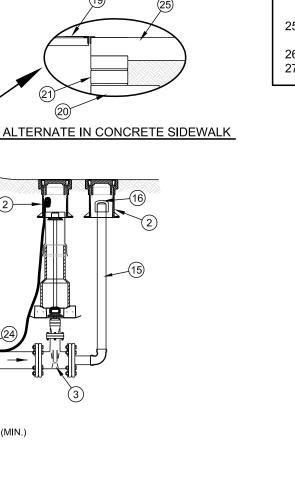
- G. STEEL REINFORCING DESIGN SHALL CONFORM TO ASTM C857
- H. REBARS SHALL BE GRADE 60 PER ASTM A615
- I. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185
- J. DIAGONAL REINFORCING SHALL BE ADDED AT ALL OPENINGS
- K. PIPE PENETRATIONS SHALL BE SEALED WITH FLEXIBLE CONNECTORS (MANHOLE BOOTS) OR WITH 8-INCHES 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. (3)

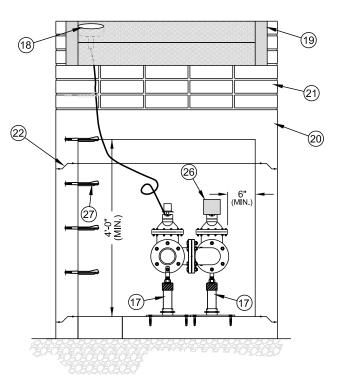
16' (MAX.)

Î 6" (MIN.)

NO. DESCRIPTION

- 4" TAPPING SLEEVE AND 4" FLANGE x MJ TAPPING VALVE ON EXISTING MAIN. 4" MJ TEE AND 4" MJ GATE VALVE ON NEW MAIN.
- STANDARD VALVE BOX ASSEMBLY (TYP.) ALL VALVES
- 4" RESTRAINED JOINT DUCTILE IRON PIPE.
- FLANGE DUCTILE IRON TEE WITH ADJUSTABLE FLANGE SUPPORT
 - FLANGE DUCTILE IRON 90°-BEND
- FLANGE x PLAIN END DUCTILE IRON PIPE (MIN. SPECIAL CLASS 53)
- MJ LONG PATTERN SOLID SLEEVE WITH RESTRAINED JOINTS
- 3/4" BALL CORPORATION STOP WITH TAPPING SADDLE
- FLANGE GATE VALVE; WITH 2" OPERATING NUT OPEN RIGHT AND WITH ADJUSTABLE FLANGE SUPPORT ON BYPASS VALVE
- FLANGE STRAINER
- FLANGE COMPOUND METER ASSEMBLY W/AMR TRANSMITTERS. METER CONFIGURATION MAY VARY DUE TO BRAND SUPPLIED.
- FLANGE CHECK VALVE W/BLIND FLANGE-2" TAP/THREADED BRASS PLUG
- MECHANICAL JOINT (RJ) GATE VALVE-2" OPERATING NUT OPEN LEFT @ PROPERTY LINE.
- MECHANICAL JOINT PLUG WITH 2" TAP
- 2" PIPE GALVANIZED STEEL (SCH 80), RED BRASS (SCH 40), HDPE (DR 9) OR DIP WITH STANDARD VALVE BOX/CONCRETE PAD
- 2" THREADED COUPLING
- ADJUSTABLE FLANGE SUPPORTS (3 REQUIRED)
- AMR TRANSMITTERS
- 4' x 5' DOUBLE-LEAF ACCESS DOOR. SEE STANDARD DETAIL.
- PRECAST REINFORCED CONCRETE VAULT
- MINIMUM OF (3) STANDARD SOLID CONCRETE BRICK COURSES UNDER ACCESS DOOR FRAME, MAXIMUM 2FT.
- JOINT REQUIRED AT FLAT TOP SECTION.
- 3/8" DIA. GALV. STEEL EYE BOLT (ADHESIVE ANCHOR) TYPICAL
- AWG #12 GAUGE COPPER TRACER WIRE (THWN) WITH BLUE INSULATION -TERMINATE WITH 24" EXCESS WIRE (COILED) @ 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 (FURNISHED BY CMUD) LOCK VALVE CLOSED
- PLASTIC STEP 12" OR 16" O.C. VERTICAL SPACING





SECTION VIEW

METER VAUL⁻ WATER I CONCRET COMPOUND RECAST inch 4

SCAL

<u>0</u>

AND

CHARLOTTE-MECKLENBURG

