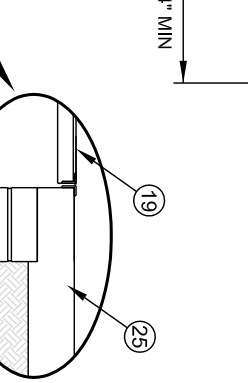
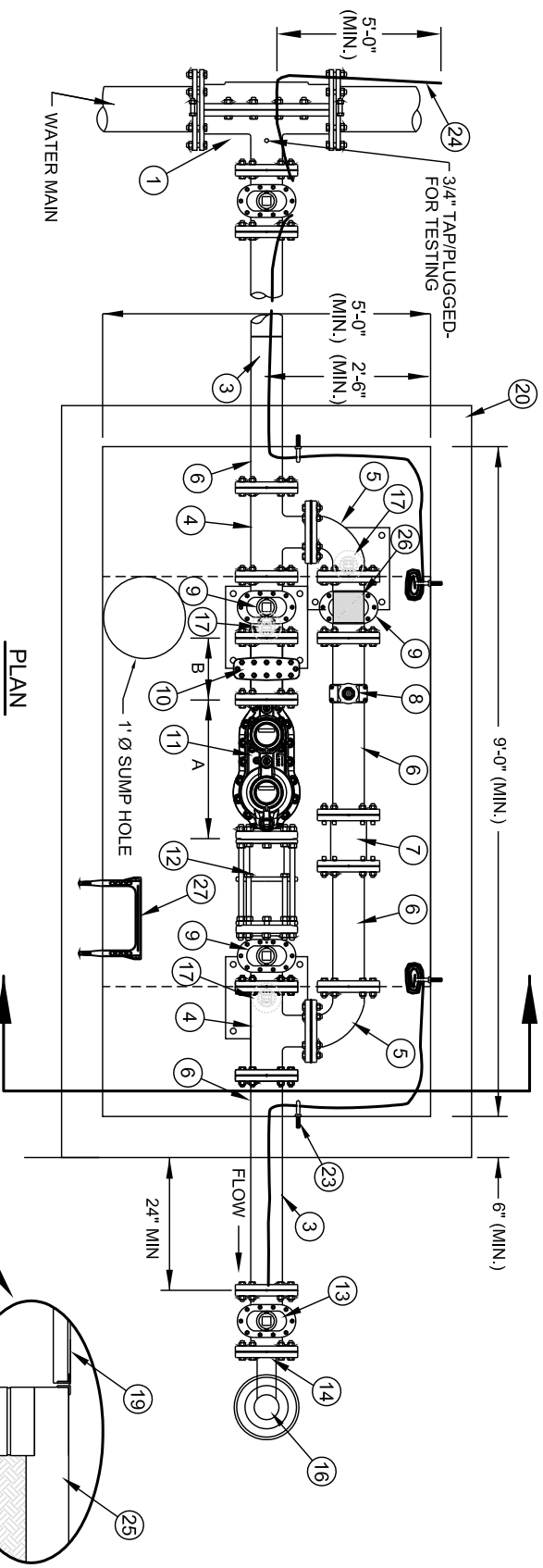
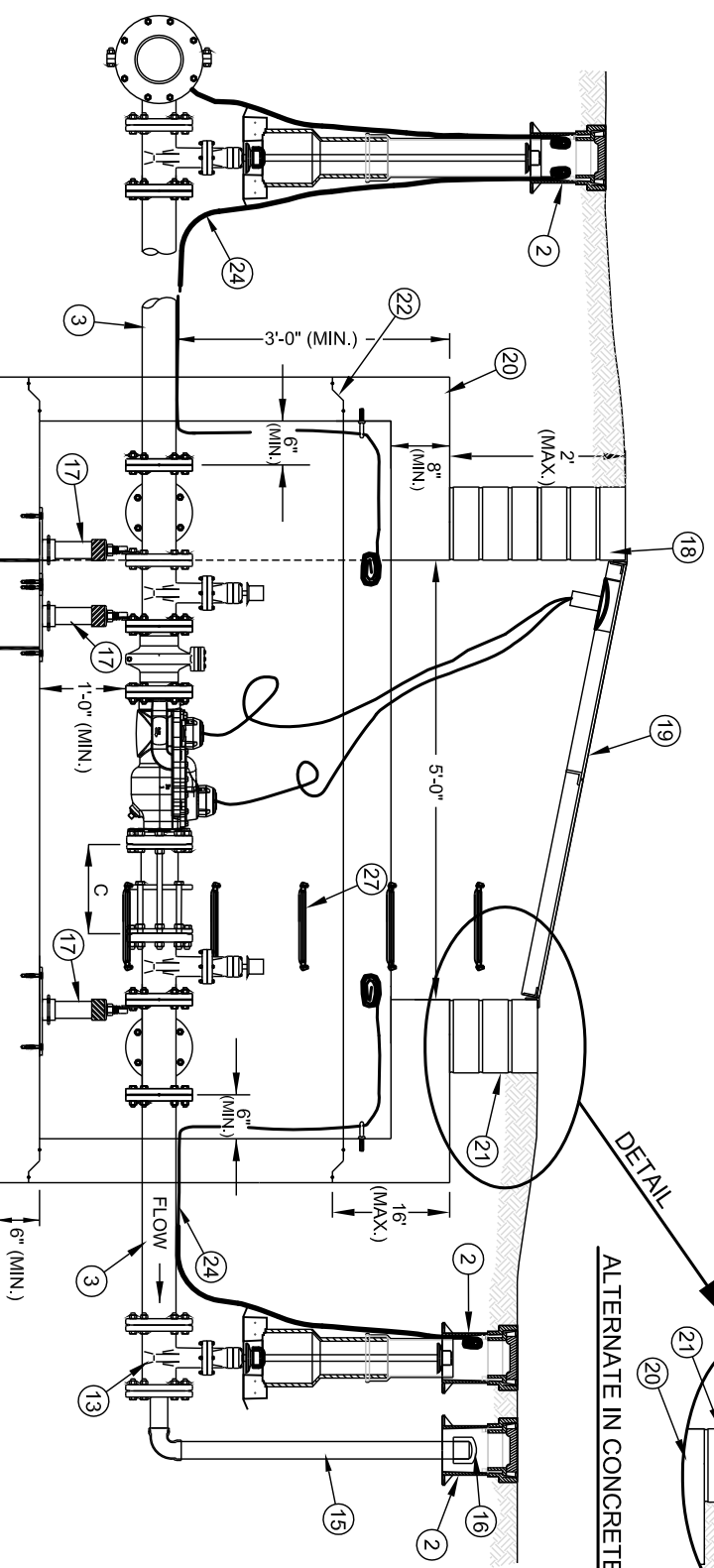


NOTES:

- 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 MAY VARY DUE TO BRAND - VERIFY LENGTH TO DETERMINE MINIMUM VAULT LENGTH.
- D. 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.
- F. DESIGN SHALL CONFORM TO ASTM C858 - SPECIFICATIONS FOR "UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURE"
- G. STEEL REINFORCING DESIGN SHALL CONFORM TO ASTM C687
- 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. (13)

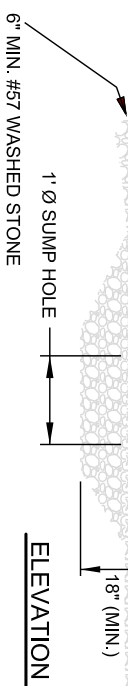


ALTERNATE IN CONCRETE SIDEWALK



DIMENSION A & B VARY SLIGHTLY - AS DETERMINED BY MANUFACTURER

METER SIZE	A	B	C
6"	24"	9"	ROMAC = 9" SMITH BLAIR = 10"



ELEVATION

SECTION VIEW

NO. DESCRIPTION

- 1 6" TAPPING SLEEVE AND 6" FLANGE x MJ TAPPING VALVE ON EXISTING MAIN. 6" MJ TEE AND 6" MJ GATE VALVE ON NEW MAIN.
- 2 STANDARD VALVE BOX ASSEMBLY (TYP.) - ALL VALVES
- 3 6" RESTRAINED JOINT DUCTILE IRON PIPE.
- 4 FLANGE DUCTILE IRON TEE WITH ADJUSTABLE FLANGE SUPPORT
- 5 FLANGE DUCTILE IRON 90°-BEND
- 6 FLANGE x PLAN END DUCTILE IRON PIPE (MIN. SPECIAL CLASS 53)
- 7 MJ LONG PATTERN SOLID SLEEVE WITH RESTRAINED JOINTS
- 8 2" BALL CORPORATION STOP (THREADED OUTLET) WITH TAPPING SADDLE FLANGE GATE VALVE, WITH 2" OPERATING NUT - OPEN RIGHT AND WITH ADJUSTABLE FLANGE SUPPORT ON BYPASS VALVE
- 9 FLANGE STRAINER
- 10 FLANGE COMPOUND METER ASSEMBLY W/AMR TRANSMITTERS. METER CONFIGURATION MAY VARY DUE TO BRAND SUPPLIED.
- 11 DISMANTLING JOINT (EXTENDED) - FL X FL - SMITH BLAIR #975 OR ROMAC #DJ400 WITH STAINLESS STEEL TIE RODS/HARDWARE
- 12 MECHANICAL JOINT (RJ) GATE VALVE-2" OPERATING NUT - OPEN LEFT @ PROPERTY LINE.
- 13 MECHANICAL JOINT PLUG WITH 2" TAP
- 14 2" PIPE GALVANIZED STEEL (SCH 80), RED BRASS (SCH 40), HDPE (DR 9) OR DIP WITH STANDARD VALVE BOX/CONCRETE PAD
- 15 2" THREADED COUPLING
- 16 ADJUSTABLE FLANGE SUPPORTS (3 REQUIRED)
- 17 AMR TRANSMITTERS
- 18 5' x 5' DOUBLE-LEAF ACCESS DOOR. SEE STANDARD DETAIL.
- 19 PRECAST REINFORCED CONCRETE VAULT
- 20 MINIMUM OF (3) SOLID CONCRETE CAP BLOCK COURSES UNDER ACCESS DOOR FRAME, MAXIMUM 2FT.
- 21 JOINT REQUIRED AT FLAT TOP SECTION.
- 22 3/8" DIA. GALV. STEEL EYE BOLT (ADHESIVE ANCHOR) - TYPICAL
- 23 AWG #12 GAUGE SOLID COPPER TRACER WIRE - WITH BLUE INSULATION (30 MILS HDPE) - TERMINATE WITH 24" EXCESS WIRE (COILED) @ EYE BOLT AND VALVE BOX (TYPICAL).
- 24 CAST IN PLACE CONCRETE SIDEWALK - BRICKWORK SHALL NOT EXTEND TO SURFACE. ACCESS DOOR FRAME SHALL REST ON SIDEWALK.
- 25 VALVE LOCK (FURNISHED BY CMUD) - LOCK VALVE CLOSED
- 26 PLASTIC STEP - 12" OR 16" O.C. VERTICAL SPACING
- 27

NO SCALE
STANDARD NO. YY

VERSION NO. 1.0	VERSION DATE 03.02.2018
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6 - inch COMPOUND WATER METER AND PRECAST CONCRETE VAULT

CHARLOTTE WATER STANDARD DETAILS WATER

