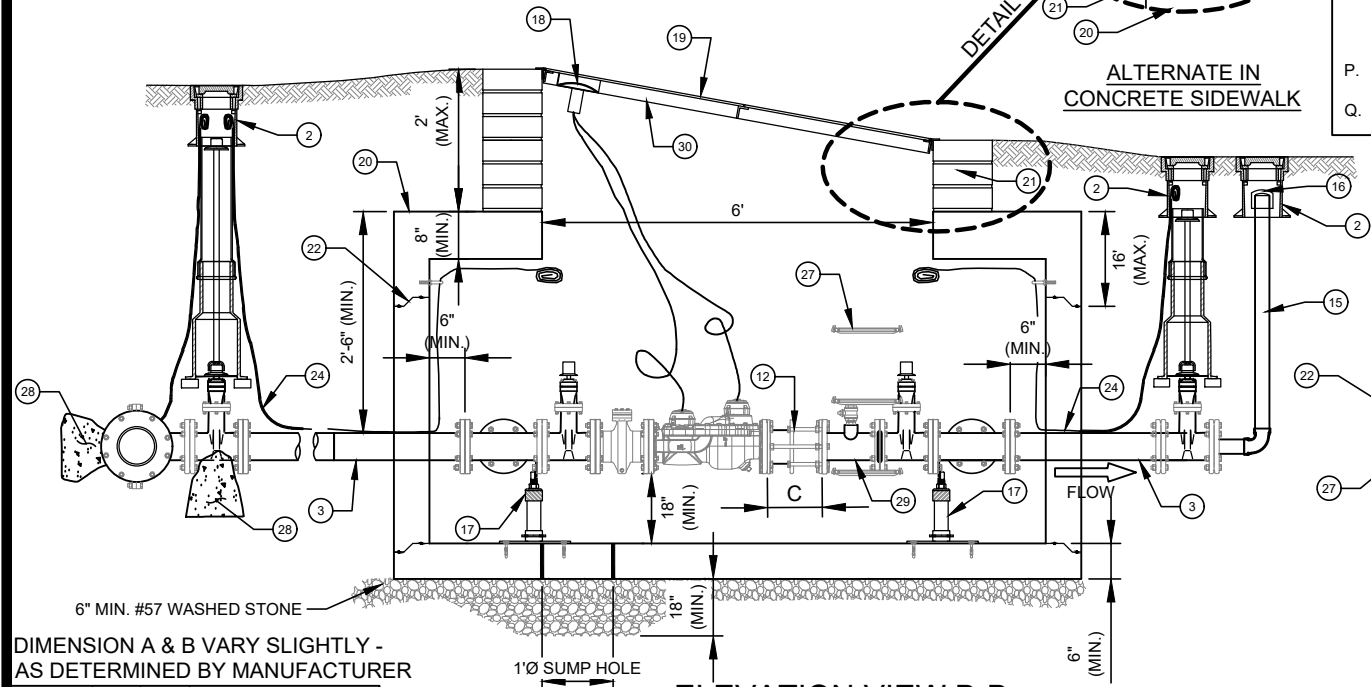


TYPICAL PLAN A



ELEVATION VIEW B-B

DIMENSION A & B VARY SLIGHTLY - AS DETERMINED BY MANUFACTURER

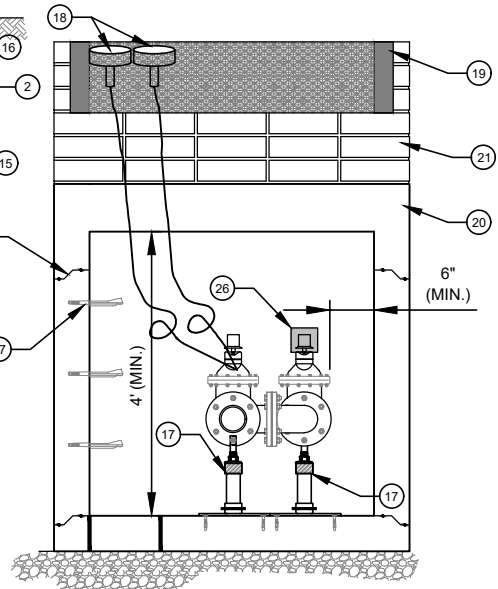
METER SIZE	A	B	C
4"	20"	9"	ROMAC = 8" SMITH BLAIR = 9"



ALTERNATE IN CONCRETE SIDEWALK

NOTES:

- ALL FLANGE HARDWARE (BOLT/WASHER/NUT) SHALL BE STAINLESS STEEL - TYPE 304 WITH ANTI-SEIZE COMPOUND.
- 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 MINIMUM CLEARANCE AS SHOWN AND RATED FOR NCDOT HS-20 LOADING - SUBMIT SHOP DRAWINGS / P.E. SEALED FOR REVIEW.
- ALL CONCRETE SHALL BE MINIMUM 4,000 PSI COMPRESSIVE STRENGTH.
- DESIGN SHALL CONFORM TO ASTM C858 - SPECIFICATIONS FOR "UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURE".
- STEEL REINFORCING DESIGN SHALL CONFORM TO ASTM C857.
- REBARS 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" 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.
- ALL VALVES SHALL BE OPEN RIGHT - CLOCKWISE, EXCEPT NO. 13.
- WRAP TAPPING SLEEVE WITH 2 LAYERS HDPE PLASTIC FILM (HDCLPE PER AWWA C-105) - 4 MILS EACH LAYER - EXTEND HDPE 2' EACH WAY FROM SLEEVE - DUCT TAPE OR ZIP LOCK TIE ENDS.
- CONCRETE THRUST BLOCKING REQUIRED AT TAPPING SLEEVE.
- PRECAST VAULT COMPONENTS SHALL HAVE



SECTION VIEW A-A

NO. DESCRIPTION PER ASTM C478 REQUIREMENTS.

- 4" TAPPING SLEEVE AND 4" FLANGE X MJ TAPPING VALVE ON EXISTING MAIN. 4" MJ TEE, 4" FOSTER ADAPTOR, AND 4" MJ GATE VALVE ON NEW MAIN.
- STANDARD VALVE BOX ASSEMBLY (TYP.) - ALL VALVES.
- FLANGE X PLAIN END DUCTILE IRON PIPE - L = 30" (MIN.) (SPECIAL CLASS 53).
- FLANGE DUCTILE IRON TEE WITH ADJUSTABLE FLANGE SUPPORT.
- FLANGE DUCTILE IRON 90° - BEND.
- FLANGE X PLAIN END DUCTILE IRON PIPE 2 EA. - LL = 62" (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.
- 4" DISMANTLING JOINT (RESTRAINED) - ROMAC DJ400 - LL = 7" TO 9", SET TO 8", OR SMITH-BLAIR #975 - 8" TO 10", SET TO 9". - FL X FL - (L = 10" OR 9" - EXTENDED) SMITH BLAIR #975 OR ROMAC #DJ400 WITH STAINLESS STEEL TIE RODS/HARDWARE.
- MECHANICAL JOINT (RJ) GATE VALVE - 2" OPERATING NUT - OPEN LEFT AT PROPERTY LINE.
- MECHANICAL JOINT PLUG WITH 2" TAP.
- TEMP. 2" PIPE GALVANIZED STEEL (SCH 80) WITH STANDARD VALVE BOX/CONCRETE PAD.
- TEMP. 2" THREADED COUPLING.
- ADJUSTABLE FLANGE PIPE SUPPORTS (3 REQUIRED).
- AMR TRANSMITTERS.
- 4' X 6' DOUBLE-LEAF ACCESS DOOR. SEE STANDARD DETAIL.
- PRECAST REINFORCED CONCRETE VAULT.
- MINIMUM OF (3) STANDARD SOLID CONCRETE BRICK COURSES UNDER ACCESS DOOR FRAME, MAXIMUM 2'.
- JOINT REQUIRED AT FLAT TOP SECTION.
- 3/8" DIA. GALV. STEEL EYE BOLT (ADHESIVE ANCHOR) - TYPICAL.
- AWG #12 GAUGE SOLID COPPER TRACER WIRE - WITH 30 MILS BLUE HDPE INSULATION - 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 SIDEWALK.
- VALVE LOCK AND WARNING TAG (FURNISHED BY CLTW) - LOCK VALVE CLOSED.
- PLASTIC STEP - 12" VERTICAL SPACING.
- CONC. THRUST BLOCKING - 3,600 PSI.
- 4" EPOXY COATED/LINED STEEL FL X FL SPOOL WITH 2" FNPT TEST OUTLET - LL = 12" (MARS CO) AND 2" BALL CORPORATION STOP WITH T-HEAD OPERATING NUT - MNPT X FNPT.
- ATTACH ENGRAVED LABEL, WITH PREMISE NUMBER, TO UNDERSIDE OF DOOR, NEAR THE LIFTING HANDLE.