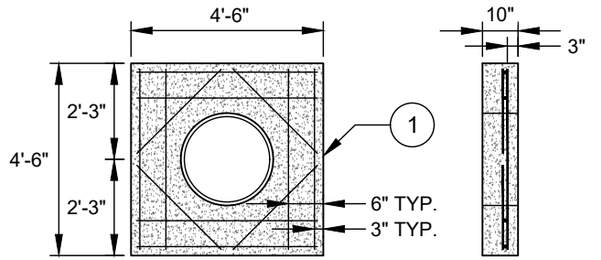
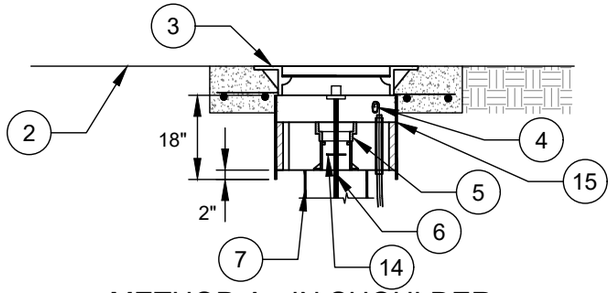
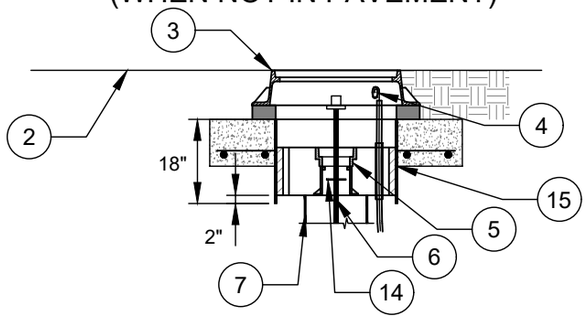


PLAN VIEW SECTION VIEW

PRECAST CONCRETE PAD

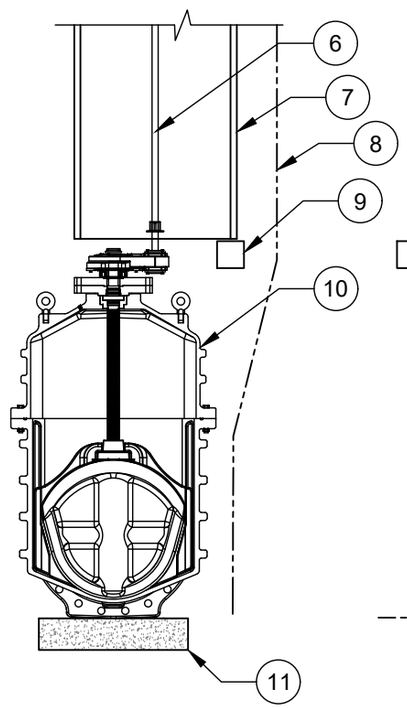


METHOD A - IN SHOULDER
(WHEN NOT IN PAVEMENT)

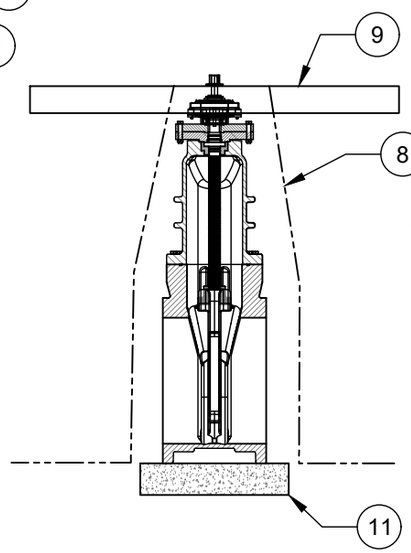


METHOD B - IN PAVEMENT

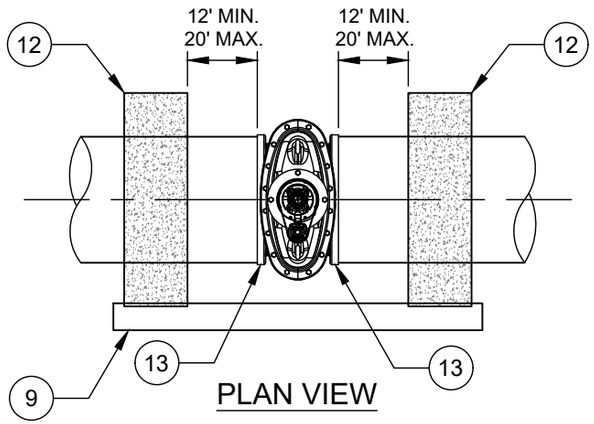
ELEVATIONS



PROFILE VIEW



SIDE VIEW



PLAN VIEW

NO.	DESCRIPTION:
1.	PRECAST CONCRETE PAD (REINFORCED). SEE STANDARD DETAIL.
2.	FINISHED GRADE.
3.	FRAME AND COVER ASSEMBLY. SEE APPROPRIATE STANDARD DETAILS.
4.	TRACER WIRE TERMINATION WITH 24" NEATLY COILED WIRE.
5.	VALVE BOX ASSEMBLY - SEE CLTW STANDARD DETAIL.
6.	EXTENSION STEM ASSEMBLY. REFER TO STANDARD DETAIL.
7.	12" (MINIMUM) DIP RISER PIPE 20" MAXIMUM.
8.	TRACER WIRE - CONTINUOUS AWG #12 GAUGE SOLID COPPER TRACER WIRE WITH 30 MILS THICK BLUE HDPE INSULATION.
9.	PRECAST CONCRETE SUPPORT BEAM.
10.	GATE VALVE - VERTICALLY ORIENTED.
11.	BEARING BLOCK FOR VALVE.
12.	THRUST BLOCK. REFER TO STANDARD DETAIL.
13.	RESTRAINED MJ ADAPTER WITH STAINLESS STEEL STIFFENER AND ACCESSORY KIT.
14.	CENTERING COLLAR.
15.	24" PVC PIPE - C900 - DR18, OR DIP - CAST IN.

NOTES:

A. CONNECT VALVE TO HDPE LINE WITH RESTRAINED MJ ADAPTER WITH STAINLESS STEEL STIFFENER AND ACCESSORY KIT. SEE STANDARD DETAIL FOR TRANSITION DETAIL.
B. CLTW ALLOWS THE INSTALLATION OF DIFFERENT PIPE MATERIALS ON EITHER SIDE OF THE GATE VALVE. INSTALL TRANSITIONS PER STANDARD DETAIL FOR HDPE.
C. IF VALVE OPERATING NUT IS MORE THAN 3' BELOW FINISHED GRADE, PROVIDE EXTENSION STEM ASSEMBLY. SEE STANDARD DETAIL.
D. REFER TO STANDARD DETAIL FOR MANHOLE FRAME AND COVER.
E. RISER PIPE SHALL NOT INDUCE LOADING ON THE VALVE.

NOTES TO DESIGNER

A. SEALING ENGINEER IS RESPONSIBLE FOR DEPTH REQUIREMENTS.
B. SEALING ENGINEER IS RESPONSIBLE FOR BEARING BLOCK STRUCTURAL DESIGN.
C. SEALING ENGINEER TO SPECIFY SIZE OF BEARING BLOCK BASED ON GEOTECHNICAL REPORT OF SOIL CONDITIONS.

CHARLOTTE WATER

CHARLOTTE WATER
A CITY OF CHARLOTTE DEPARTMENT
STANDARD DETAILS
WATER

VERTICAL INSTALLATION OF GATE VALVES FOR HDPE PIPE (16-INCH TO 30-INCH)

NO SCALE

VERSION 1.0

DATE 04/2024

DETAIL 10.6.3