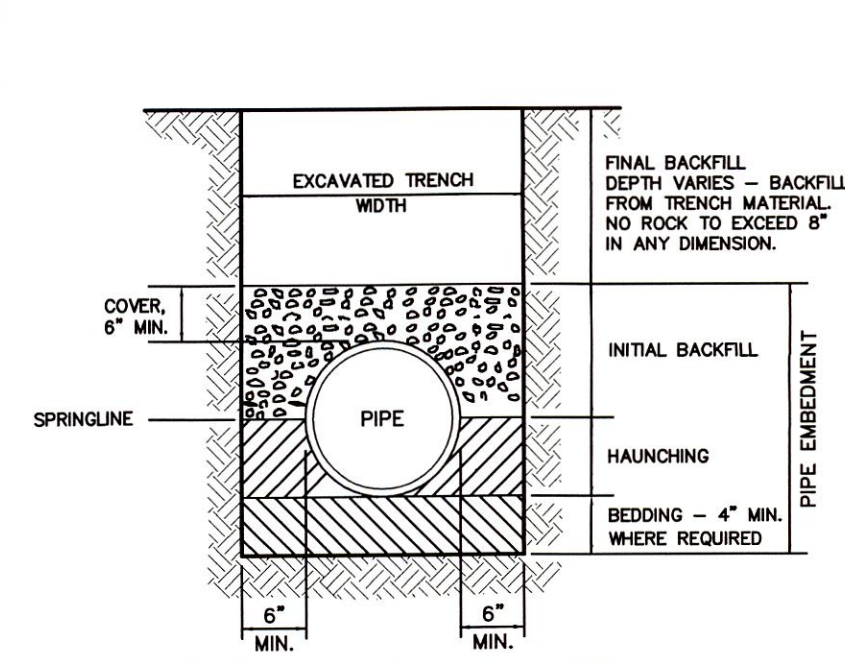
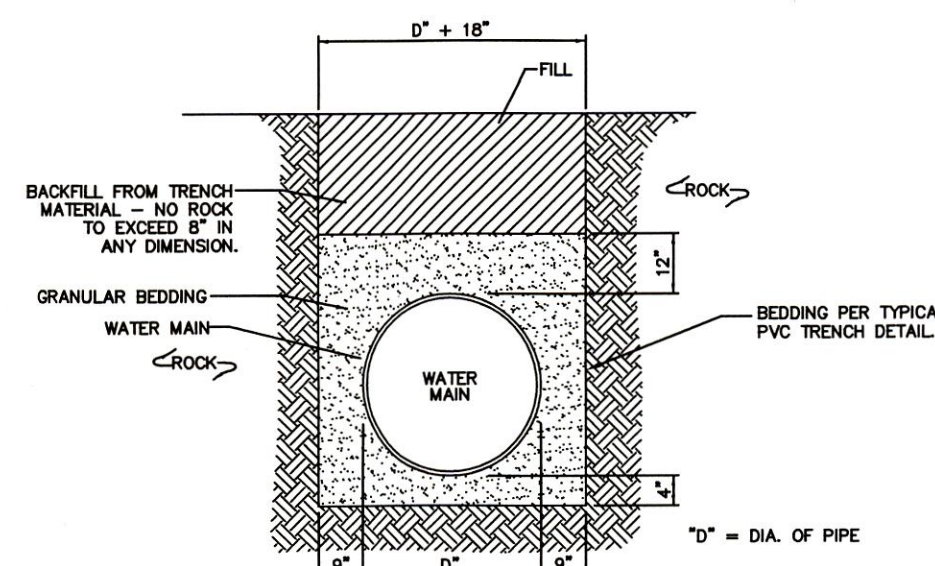


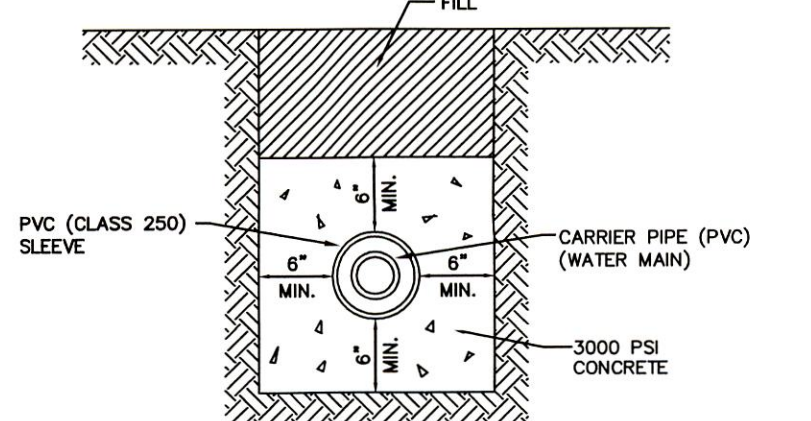


TYPICAL PVC BEDDING DETAIL

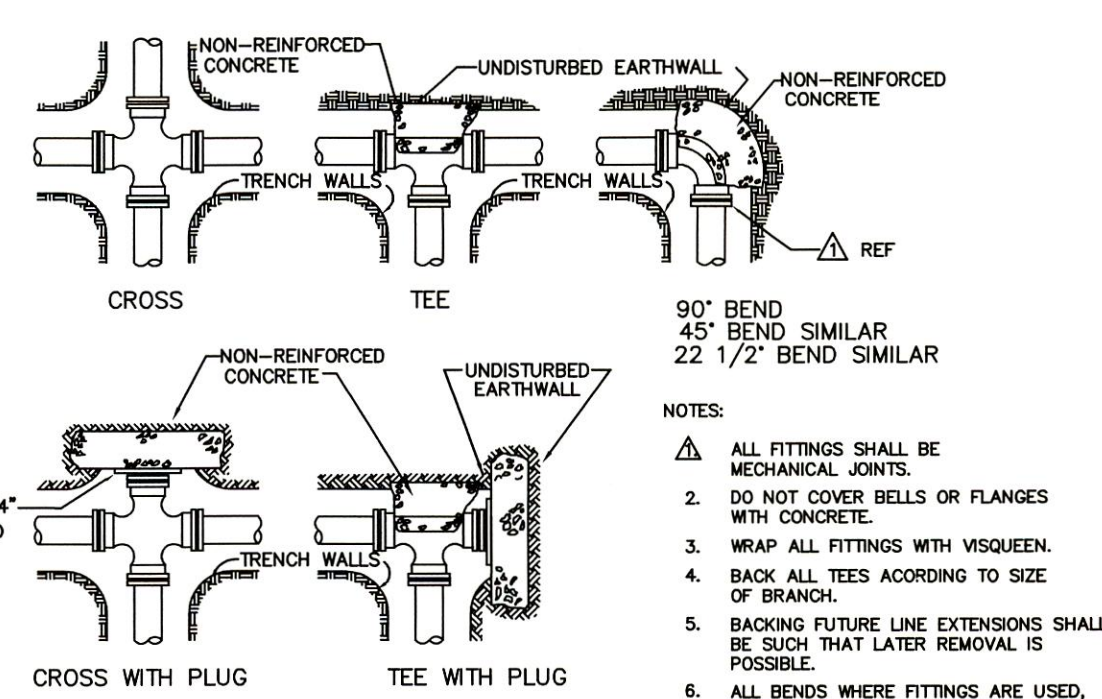
- NOTES:
- PIPE EMBEDMENT SHALL BE IN ACCORDANCE WITH AWWA C900.
 - PIPE EMBEDMENT SHALL HAVE NO PARTICLE SIZE IN EXCESS OF 3/4" ANGULAR ROCK OR 1" ROUNDED STONES.
 - FINAL BACKFILL SHALL HAVE NO PARTICLE SIZE IN EXCESS OF 8" IN ANY DIMENSION.
 - BEDDING WILL BE REQUIRED WHERE NATIVE MATERIAL DOES NOT MEET THE REQUIREMENT FOR EMBEDMENT AS DESCRIBED ABOVE. THE CONTRACTOR SHALL FURNISH AND INSTALL SUITABLE MATERIAL.
 - MINIMUM TRENCH WIDTH SHALL BE PIPE DIAMETER PLUS 12" MEASURED AT THE SPRINGLINE TO ENABLE BACKFILL MATERIAL TO BE INSTALLED IN THE HAUNCHING AREA. IN NO CASE SHALL THE TRENCH WIDTH BE LESS THAN 18" WIDE.



TYPICAL ROCK EXCAVATION AND BEDDING FOR WATER MAIN



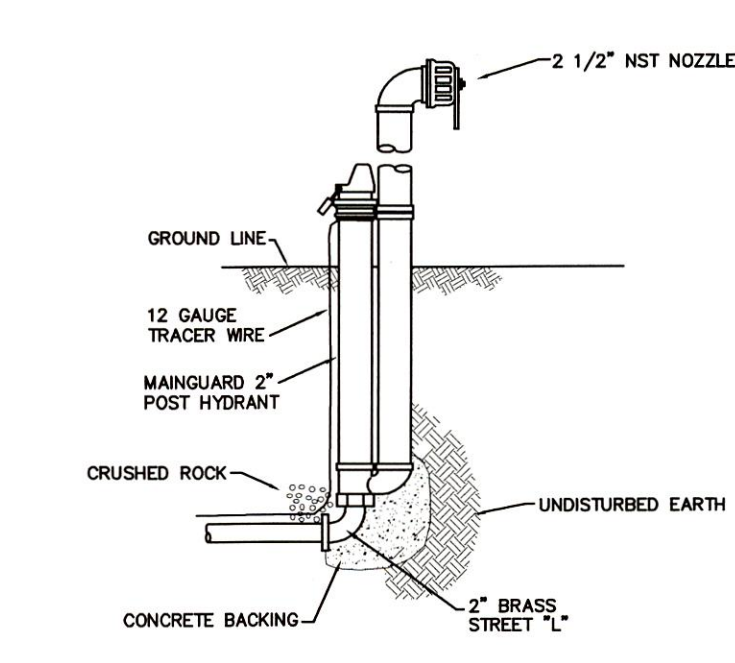
TYPICAL CONCRETE ENCASEMENT (FOR PVC)



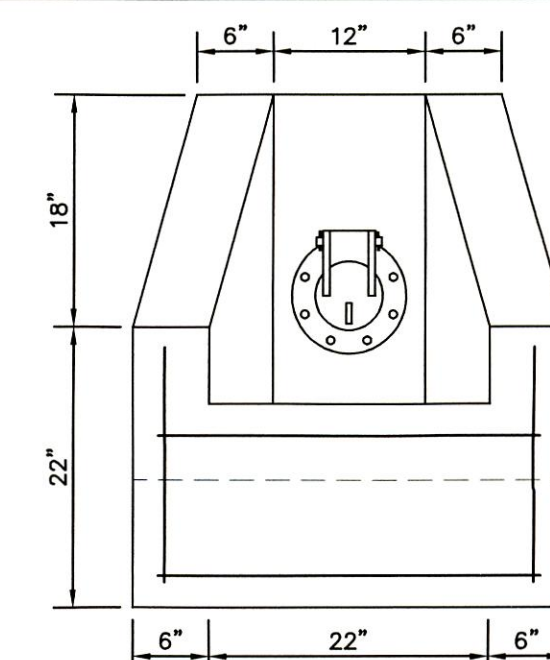
BLOCKING DETAILS

SIZE	REQUIRED SQ. FT. OF UNDISTURBED EARTHWORK FOR REACTION BACKING			
	TYPE OF FITTINGS			
	TEE	90°	45°	22 1/2°
2"	1	1	1	1
3"	1	1	1	1
4"	1	1	1	1
6"	3	3	3	2
8"	4	4	4	3
10"	7	7	7	4
12"	10	10	10	6
14"	13	13	13	8
16"	17	17	17	10
18"	21	21	21	12
20"	26	26	26	14
24"	38	38	38	20
30"	59	59	59	32
36"	85	85	85	46

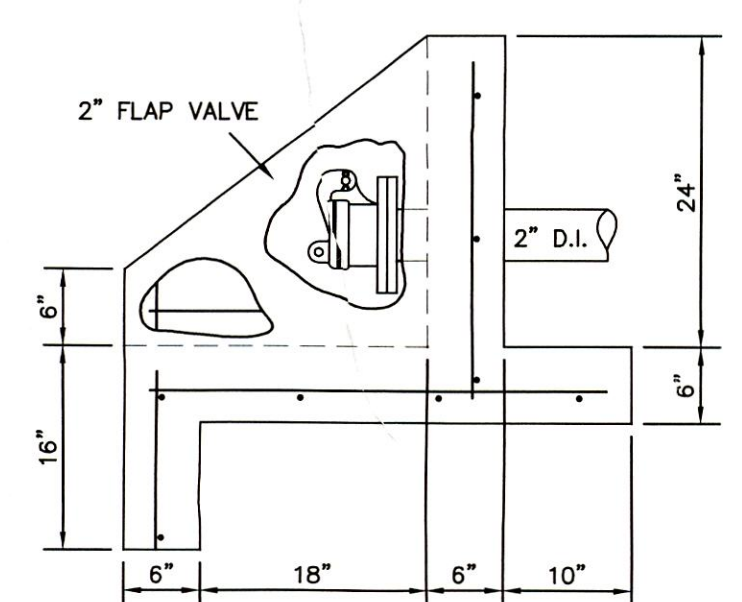
- NOTES:
- ALL FITTINGS SHALL BE MECHANICAL JOINTS.
 - DO NOT COVER BELLS OR FLANGES WITH CONCRETE.
 - WRAP ALL FITTINGS WITH VISQUEEN.
 - BACK ALL TEES ACCORDING TO SIZE OF BRANCH.
 - BACKING FUTURE LINE EXTENSIONS SHALL BE SUCH THAT LATER REMOVAL IS POSSIBLE.
 - ALL BENDS WHERE FITTINGS ARE USED, BOTH HORIZONTAL OR VERTICAL, SHALL BE BACKED.
 - REACTION BACKING TABLE IS BASED ON 150 PSI AND SOIL BEARING PRESSURE OF 2,500 LB./SQ. FT. ADDITIONAL BACKING MAY BE REQUIRED IN SOME AREAS AS DIRECTED BY THE ENGINEER.



TYPICAL BLOW-OFF HYDRANT DETAIL

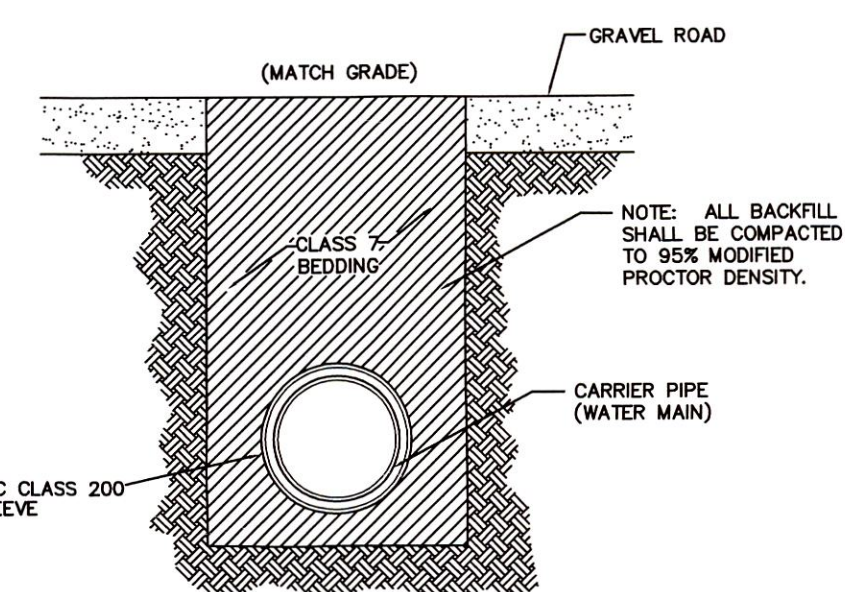


FRONT ELEVATION

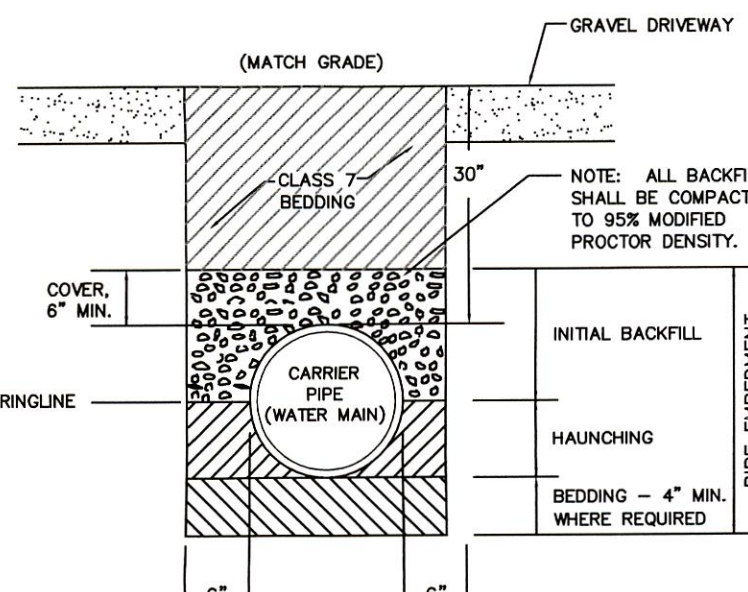


SIDE ELEVATION

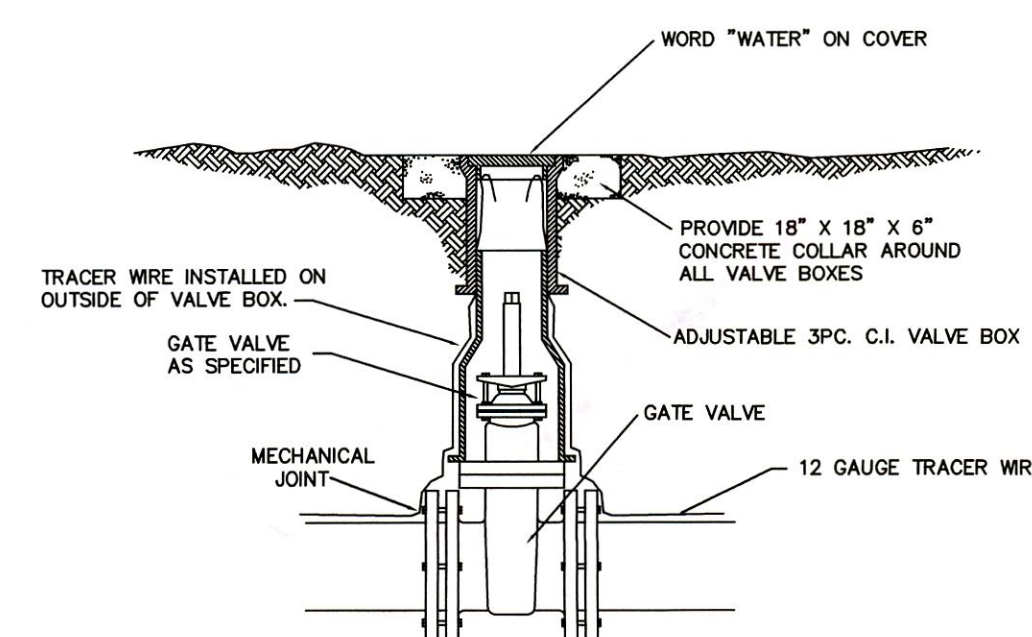
FLAP VALVE AND HEADWALL DETAIL



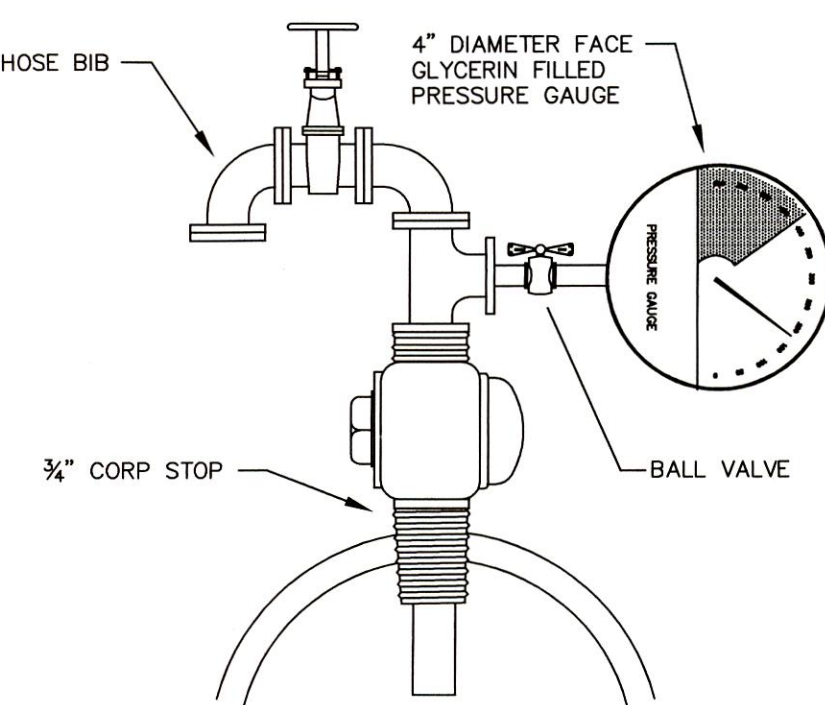
GRAVEL COUNTY ROAD CROSSING DETAIL (FOR PVC)



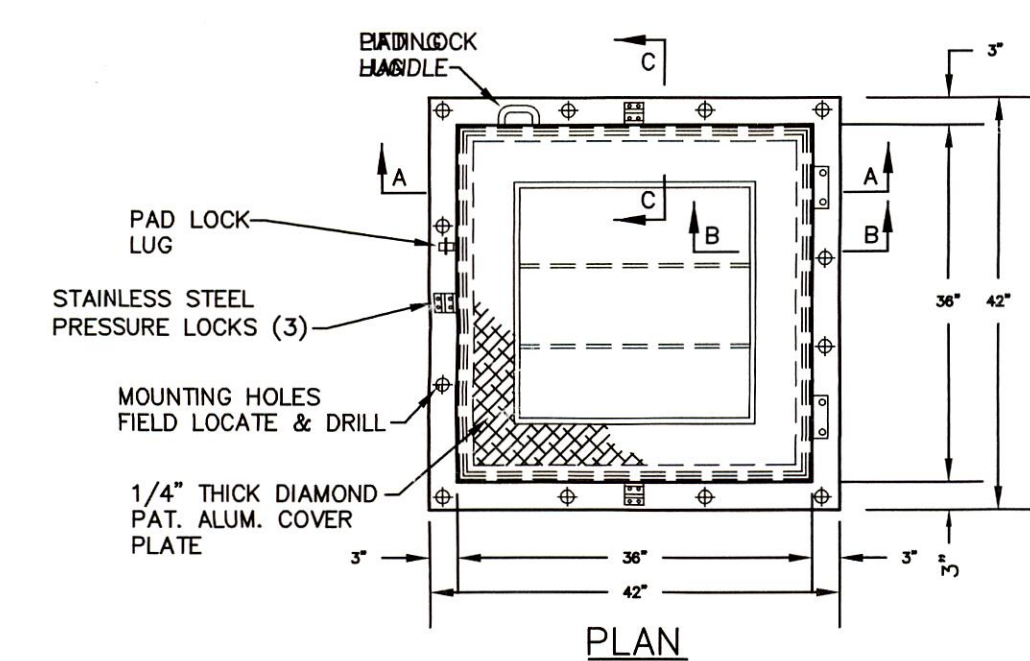
GRAVEL DRIVEWAY CROSSING (FOR PRIVATE DRIVES)



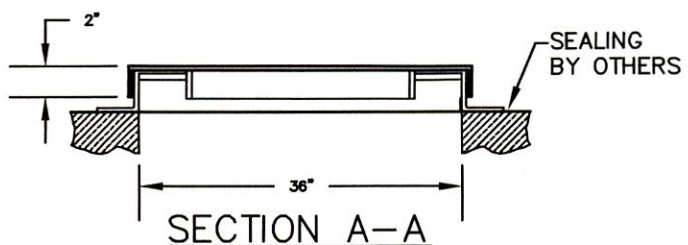
TYPICAL GATE VALVE AND VALVE BOX INSTALLATION DETAIL



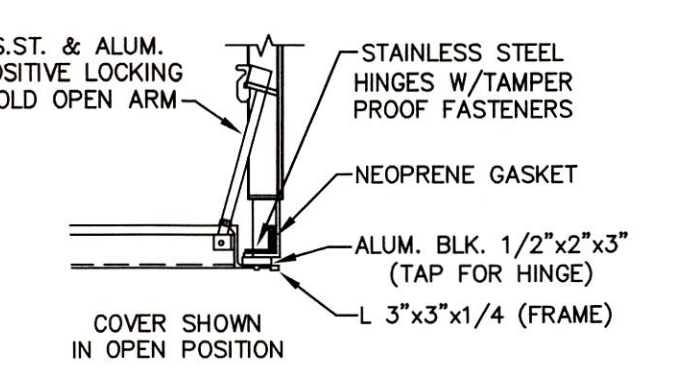
3/4" CORP STOP, PRESSURE GAUGE & HOSE BIB



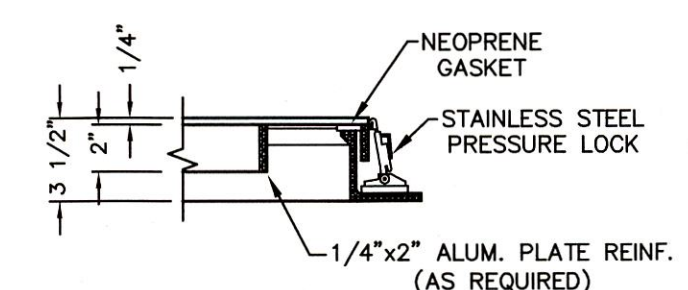
PLAN



SECTION A-A



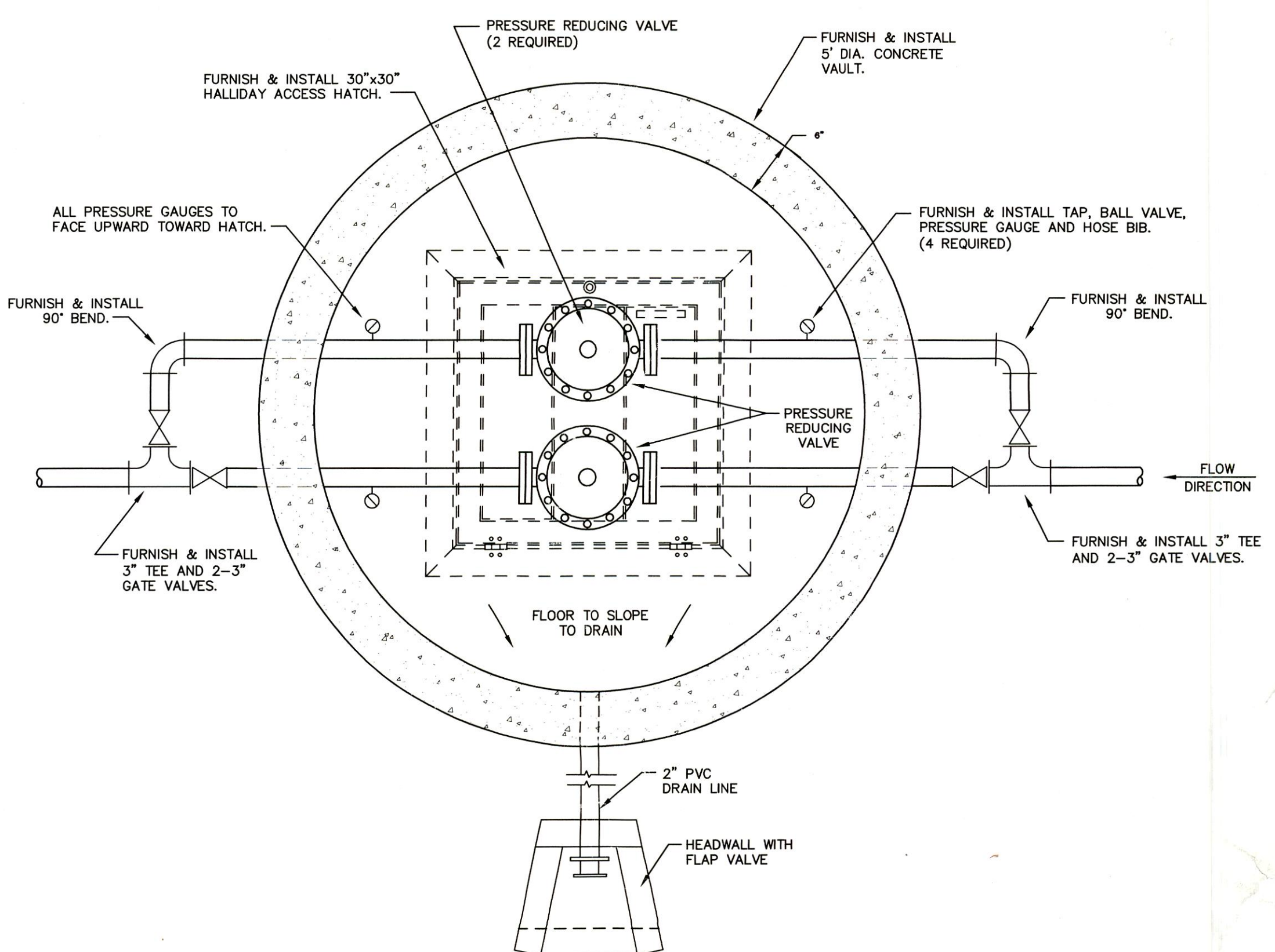
SECTION B-B



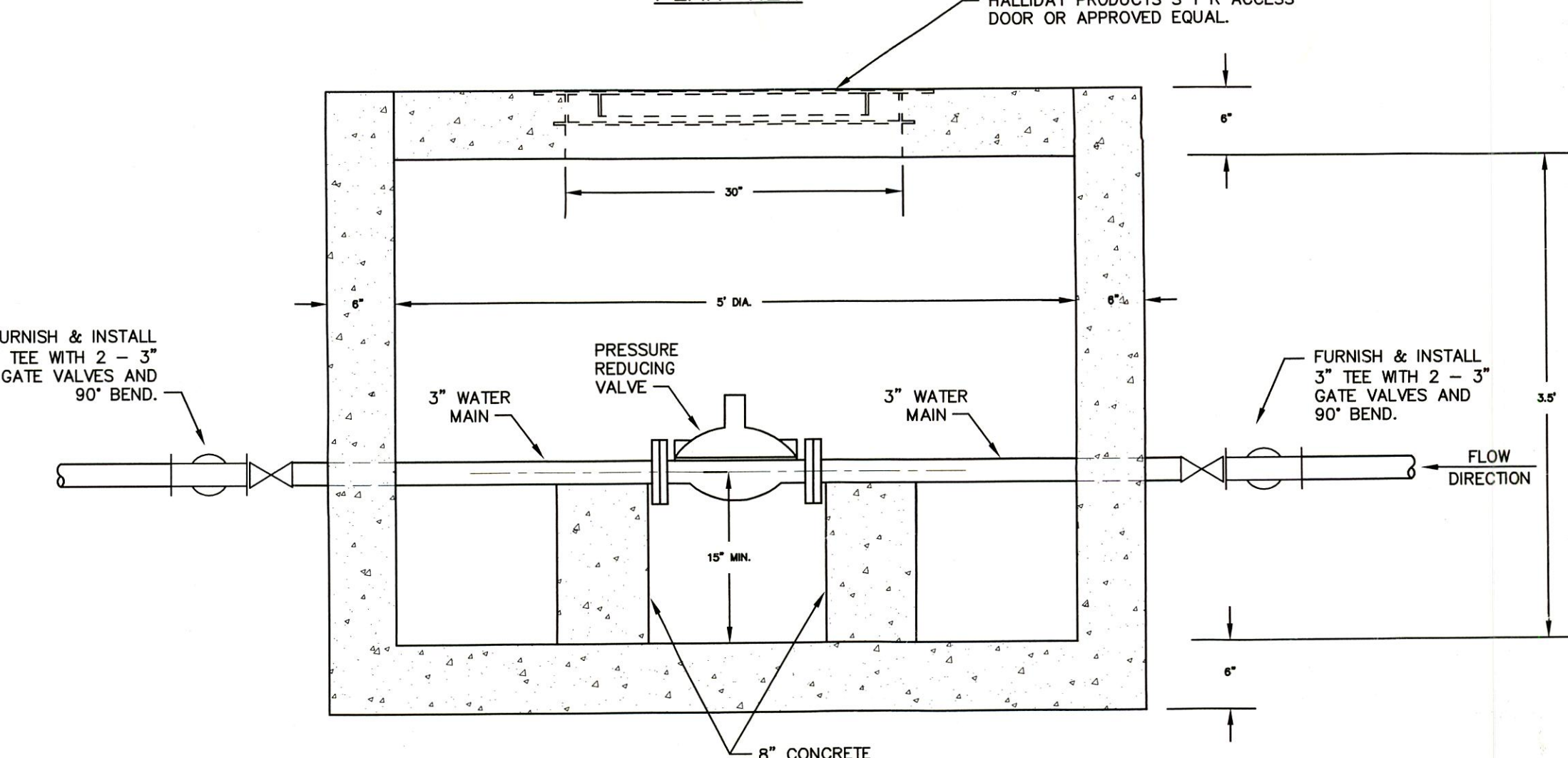
SECTION C-C

ACCESS HATCH DETAIL

N.T.S.



PLAN VIEW



SECTION

PRESSURE REDUCING VALVE DETAIL

SCALE: 1" = 10'

ENCASEMENT/ CARRIER PIPE SIZING DETAIL

WATER MAIN

SDR 21 (CLASS 200)

STEEL ENCASEMENT

NO.	O.D.	BELL O.D.	NO.	I.D.	O.D.
2	3.375	3.524	8	8.200	8.625
3	3.500	3.650	8	8.200	8.625
4	4.500	4.650	8	8.250	8.625
6	6.625	6.180	12	12.250	12.750
8	8.625	10.335	14	13.436	14.00
10	10.750	12.782	16	15.436	16.00
12	12.750	15.014	20	19.312	20.00

DUCTILE IRON

STEEL ENCASEMENT

NO.	O.D.	BELL O.D.	NO.	I.D.	O.D.
4"	4.90	7.50	10	10.374	10.75
6"	6.90	9.13	12	12.250	12.75
8"	8.05	11.50	16	15.436	16.00
10"	11.10	13.63	18	17.376	18.00
12"	13.30	15.75	20	19.312	20.00
14	15.30	18.63	24	23.188	24.00
16	17.40	20.75	26	25.124	26.00
18	19.50	23.00	28	27.062	28.00
20	21.60	25.35	30	29.062	30.00
24	25.80	29.63	34	32.876	34.00

SDR 17 (CLASS 150)

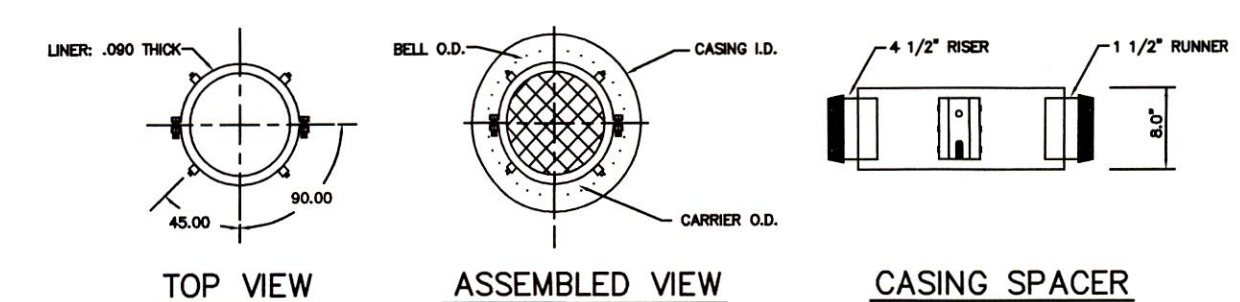
STEEL ENCASEMENT

NO.	O.D.	BELL O.D.	NO.	I.D.	O.D.
2	3.375	3.524	8	8.200	8.625
3	3.500	4.733	8	8.250	8.625
4	4.500	5.822	10	10.374	10.750
6	6.625	6.291	12	12.250	12.750
8	8.625	10.479	14	13.436	14.00

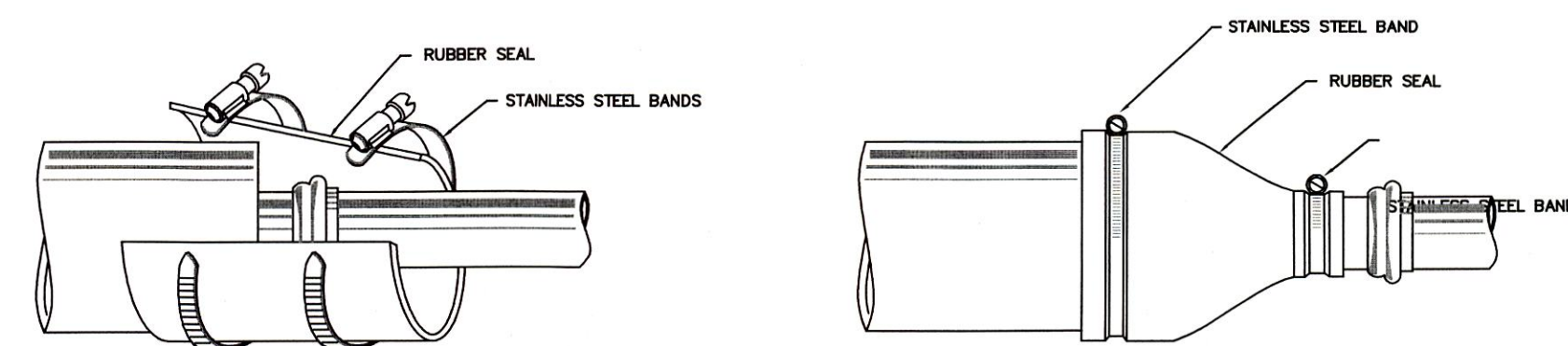
BELL O.D.

PIPE I.D.

PIPE O.D.



CASING SPACER



WRAP-AROUND END SEAL

SLIP-ON END SEAL

LEGEND

- SERVICE LINE
- SINGLE METER SETTING
 - DOUBLE METER SETTING
 - SINGLE METER SETTING
 - 1" METER SETTING

- PROPOSED 2" WATER MAIN
- PROPOSED 3" WATER MAIN
- PROPOSED 4" WATER MAIN
- PROPOSED 6" WATER MAIN
- PROPOSED 8" WATER MAIN
- PROPOSED 12" WATER MAIN
- EXISTING WATER MAIN & SIZE

- PROPOSED AIR RELEASE VALVE
- PROPOSED PRESSURE REDUCING VALVE
- PROPOSED GATE VALVE
- PROPOSED BLOW-OFF
- PROPOSED 3-WAY FIRE HYDRANT
- PROPOSED 2-WAY FIRE HYDRANT
- PROPOSED LEAK DETECTION METER

REVISION	DATE	DESCRIPTION

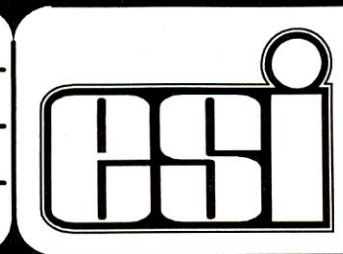
SCALE: NTS

DATE: JULY 2009

ENGINEER: T.M.

DRAWN BY: ---

W.O. 08803



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TYPICAL DETAILS
SHILOH ROAD & MURRAY ROAD
MT. SHERMAN WATER ASSOCIATION
NEWTON COUNTY, ARKANSAS