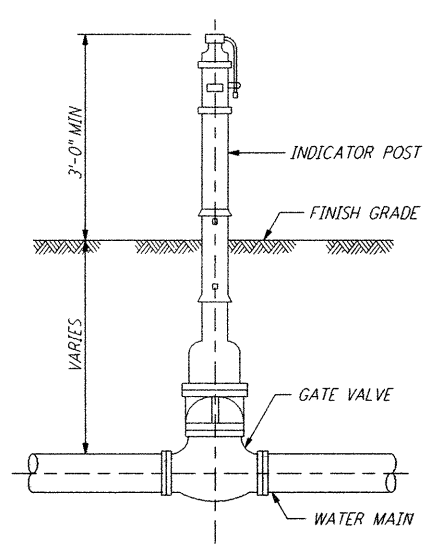
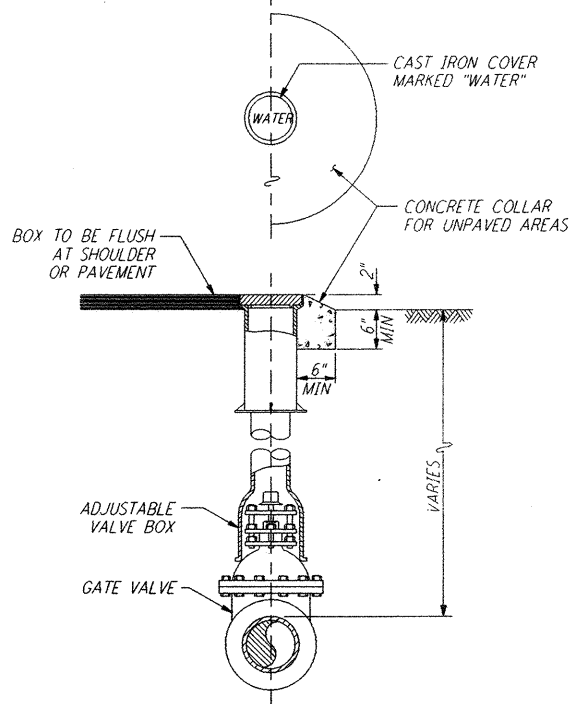


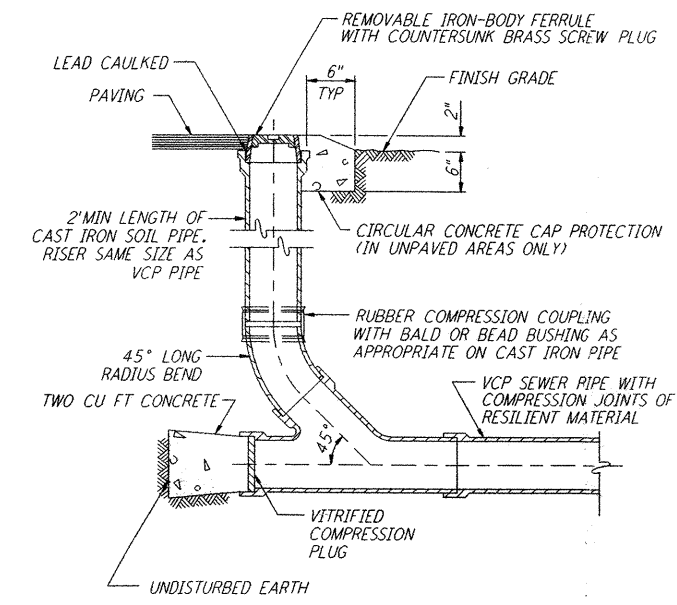
NOTES:
 1. SEE SHEET WA-C-002 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.



POST INDICATOR VALVE (1)
 WA-C-010
 NOT TO SCALE

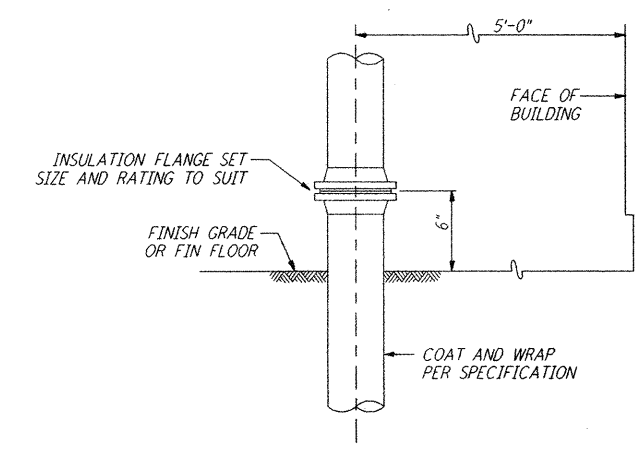


VALVE BOX (2)
 WA-C-010
 NOTE: VALVE SIZE 12" MAXIMUM
 NOT TO SCALE

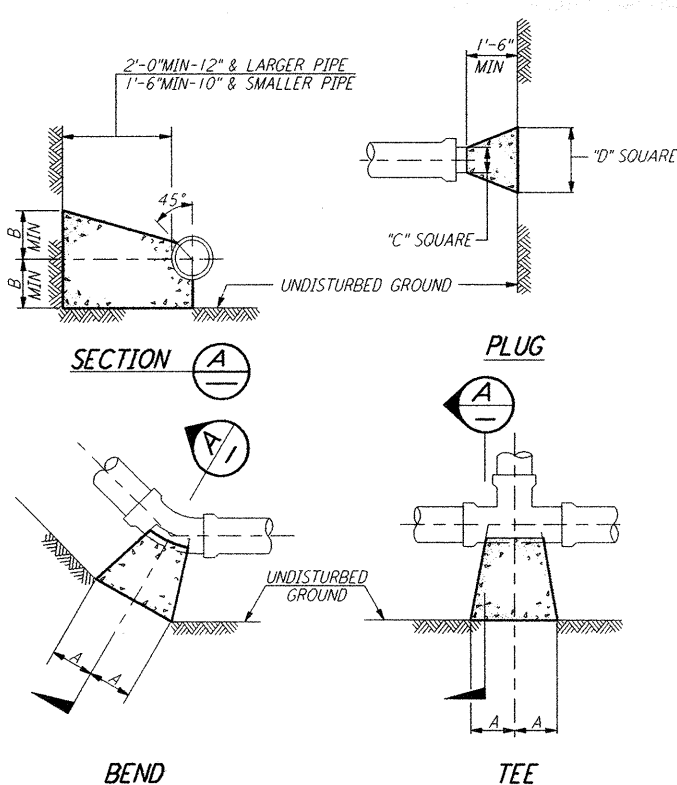


SANITARY SEWER CLEANOUT (3)
 WA-C-010
 NOT TO SCALE

NOTES:
 1. A VCP RISER IS PERMITTED BELOW COUPLING TO CONNECT WITH 45° LONG RADIUS VCP BEND.
 2. FERRULE AS SHOWN IS APPLICABLE TO 4" - 8" SEWERS. FOR 10" - 15" SEWERS USE A BLIND PLUG.



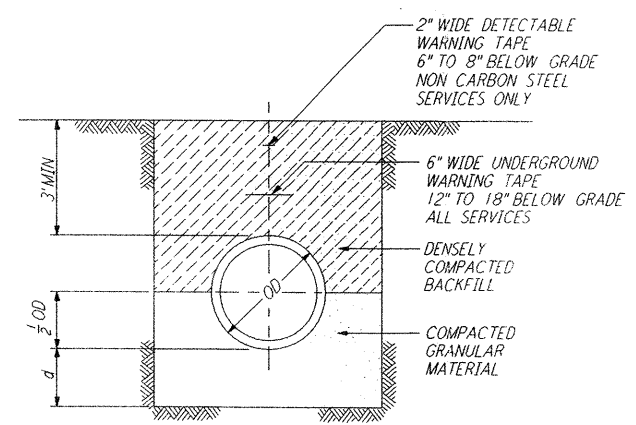
PIPE CONNECTION (4)
 WA-C-010
 (UNDERGROUND TO OVERHEAD)
 NOT TO SCALE



THRUST BLOCK (5)
 WA-C-010
 NOT TO SCALE

TYPE	SIZE	90° BEND		45° BEND		22½° BEND		TEE		PLUG
		A	B	A	B	A	B	C	D	
TYPE I 4000 PSF FILL	6"	8"	10"	6"	8"	3"	8"	8"	10"	15"
	8"	12"	12"	8"	10"	5"	9"	9"	12"	20"
	10"	16"	14"	10"	12"	6"	10"	11"	14"	25"
	12"	19"	16"	12"	14"	8"	11"	14"	16"	30"
	14"	23"	18"	14"	16"	10"	12"	16"	18"	34"
TYPE II 2000 PSF FILL	6"	16"	10"	9"	10"	6"	8"	10"	12"	21"
	8"	22"	13"	12"	13"	8"	10"	13"	16"	20"
	10"	26"	17"	14"	17"	10"	13"	16"	20"	36"
	12"	29"	21"	16"	21"	11"	16"	18"	24"	41"
	14"	35"	24"	19"	24"	12"	20"	22"	27"	48"
16"	38"	27"	21"	27"	12"	24"	24"	30"	54"	

NOTES:
 1. BASED ON 150 PSI STATIC PRESSURE PLUS AWWA WATER HAMMER.
 2. ALL OTHER CONDITIONS MUST BE CALCULATED.



ID	d (MIN)
27" & SMALLER	3"

TRENCH BEDDING (6)
 WA-C-010
 NOT TO SCALE

NO.	DATE	APRD BY	DESCRIPTION OF REVISION
9			
8			
7			
6			
5			
4			
3			
2			
1			

NO.	DATE	APRD BY	ISSUED FOR
1	10/31/95	TDM	PRELIMINARY DESIGN REVIEW

DATE	WRB

PARSONS
 100 WEST WALNUT STREET
 PASADENA, CALIFORNIA

LIGO
 CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LIGO-D960451-A-D
**LASER INTERFEROMETER
 GRAVITATIONAL-WAVE OBSERVATORY
 SITE NO. 1 - HANFORD, WASHINGTON**
 UTILITY DETAILS
 SHEET NUMBER: NONE
 CONTRACT NUMBER: PP150969
 PROJECT NUMBER: 8094
WA-C-010

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