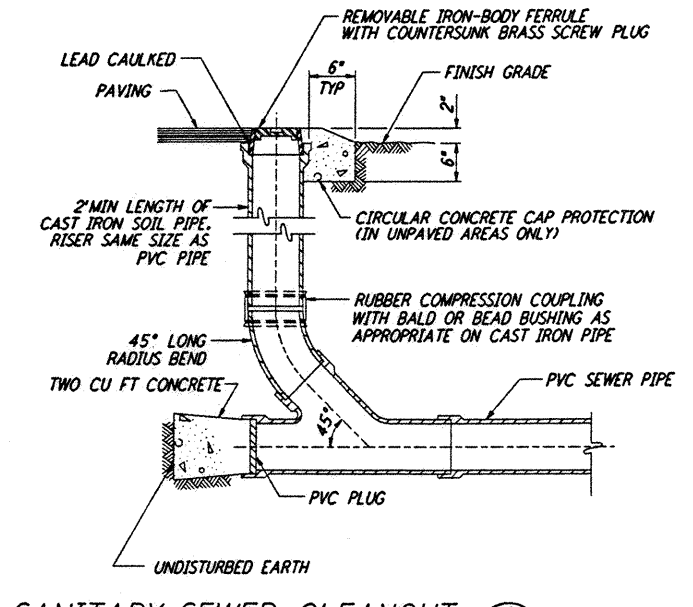
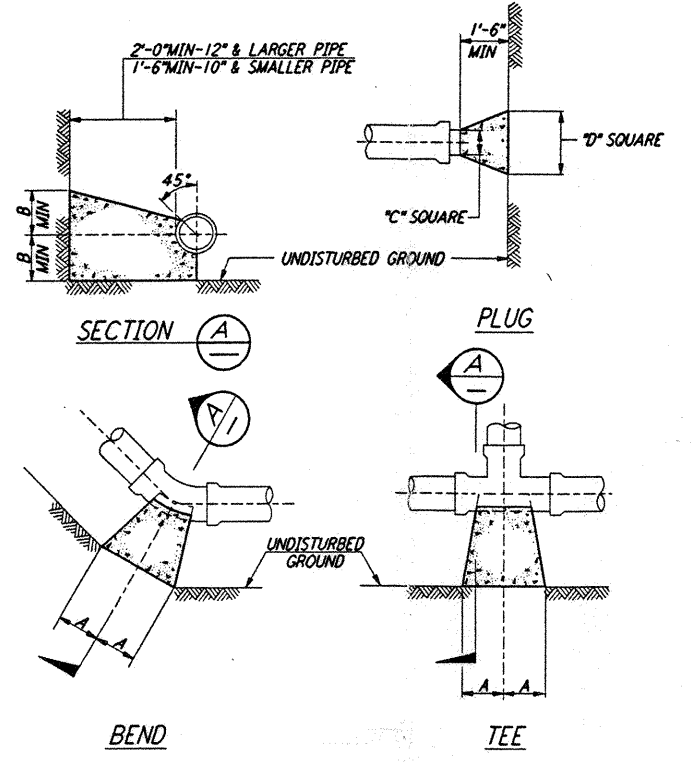


**VALVE BOX** (1) REF  
 NOT TO SCALE WA-C-055 WA-C-509  
 NOTE: VALVE SIZE 12" MAXIMUM



**SANITARY SEWER CLEANOUT** (2) REF  
 NOT TO SCALE WA-C-055 WA-C-509 WA-C-510

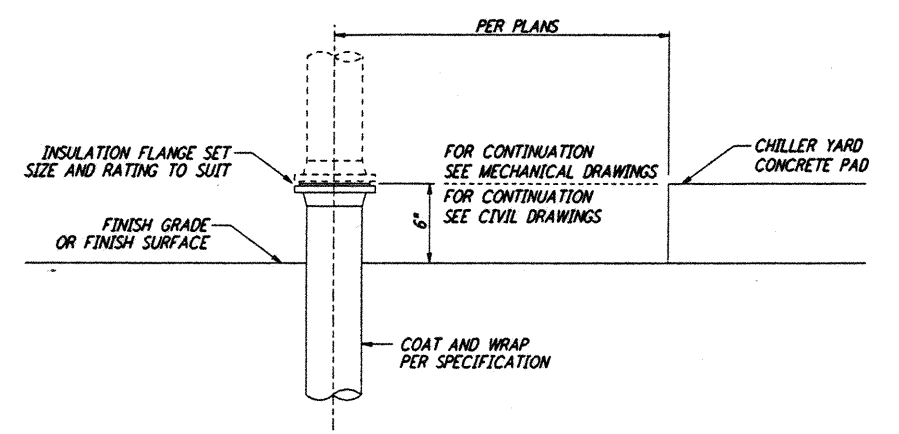


TYPE	SIZE	90° BEND		45° BEND		22 1/2° BEND		TEE		PLUG	
		A	B	A	B	A	B	A	B	C	D
TYPE I 4000 PSF FILL	4"	6"	4"	6"	3"	6"	6"	6"	8"	13"	
	6"	8"	10"	6"	8"	3"	6"	8"	8"	10"	15"
	8"	12"	12"	8"	10"	5"	9"	9"	12"	12"	20"
	10"	16"	14"	10"	12"	6"	10"	11"	14"	14"	25"
	12"	19"	16"	12"	14"	8"	11"	14"	16"	16"	30"
	14"	23"	18"	14"	16"	10"	12"	16"	18"	18"	34"
TYPE II 2000 PSF FILL	4"	14"	8"	7"	8"	4"	8"	8"	10"	8"	19"
	6"	16"	10"	9"	10"	6"	8"	10"	12"	10"	21"
	8"	22"	12"	12"	8"	10"	13"	16"	12"	20"	
	10"	26"	17"	14"	17"	10"	13"	16"	20"	14"	36"
	12"	29"	21"	16"	21"	11"	16"	18"	24"	16"	41"
	14"	35"	24"	19"	24"	12"	20"	22"	27"	18"	48"

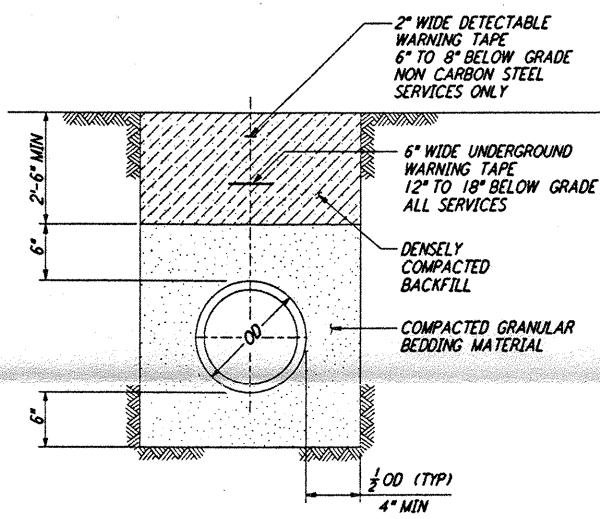
**NOTES:**  
 1. BASED ON 150 PSI STATIC PRESSURE PLUS AWWA WATER HAMMER.  
 2. ALL OTHER CONDITIONS MUST BE CALCULATED.

**THRUST BLOCK** (3) REF  
 NOT TO SCALE WA-C-055 WA-C-509 WA-C-510

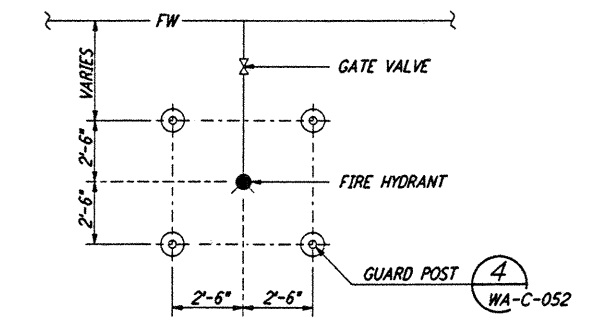
**NOTES:**  
 1. SEE SHEET WA-C-002 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.



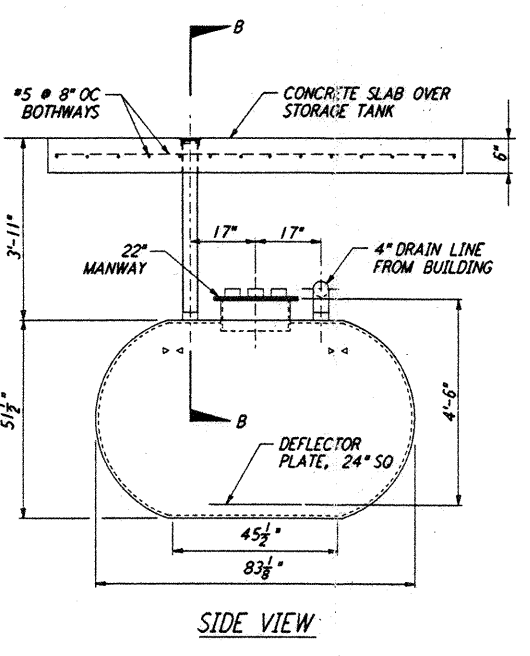
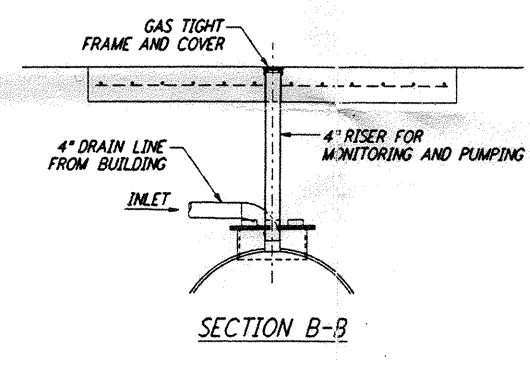
**PIPE CONNECTION** (4) REF  
 (UNDERGROUND TO OVERHEAD) NOT TO SCALE WA-C-055 WA-C-509 WA-C-510 WA-C-023 WA-C-043 WA-C-047



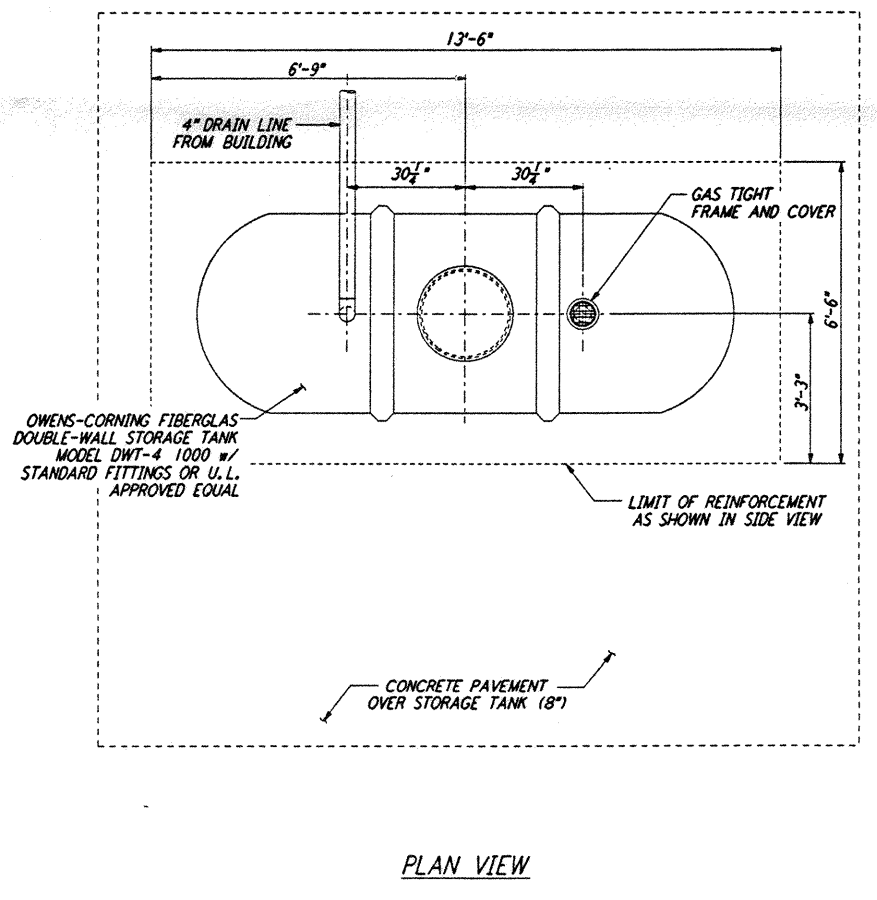
**TRENCH BEDDING** (5) REF  
 NOT TO SCALE WA-C-055 WA-C-509 WA-C-510 WA-C-023 WA-C-027 WA-C-043 WA-C-047



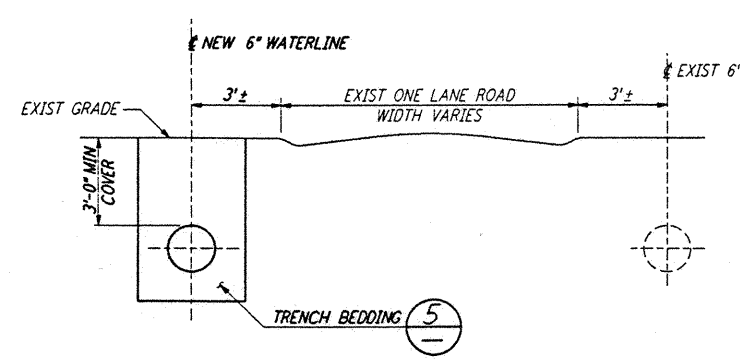
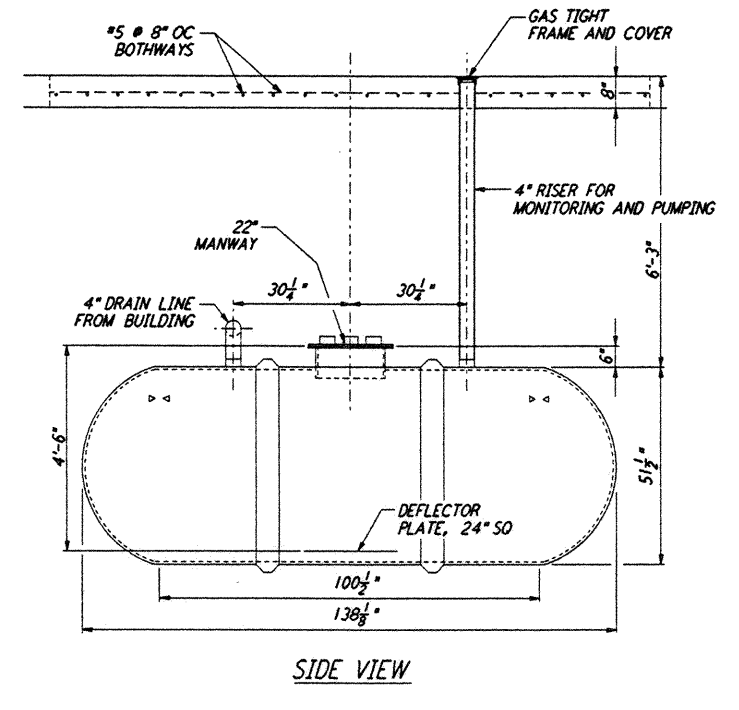
**GUARD POST LOCATIONS** (6) REF  
 (FIRE HYDRANT) NOT TO SCALE WA-C-055 WA-C-509 WA-C-510



**DOUBLE-WALL HOLDING TANK** (8) REF  
 NOT TO SCALE WA-C-055 WA-C-023 WA-C-027 WA-C-043 WA-C-047



**DOUBLE-WALL HOLDING TANK** (9) REF  
 1000 GALLONS W/ PIPING SUMP NOT TO SCALE WA-C-055 WA-C-509 WA-C-510



**SECTION THRU EXISTING AND NEW WATERLINES** (7) REF  
 NOT TO SCALE WA-C-055

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NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION

FOR CONSTRUCTION	
DRAWN	WRB 9/28/95
CHECKED	LAL 7/16/96
ENGINEER	7/16/96
PROJ	WALNUT

**PARSONS**  
 100 WEST WALNUT STREET  
 PASADENA, CALIFORNIA

**LIGO**  
 CALIFORNIA INSTITUTE OF TECHNOLOGY  
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LASER INTERFEROMETER  
 GRAVITATIONAL-WAVE OBSERVATORY  
 SITE NO. 1 - HANFORD, WASHINGTON

CIVIL  
 UTILITY DETAILS  
 SHEET I

AS NOTED PPI50969 8094  
**WA-C-055**