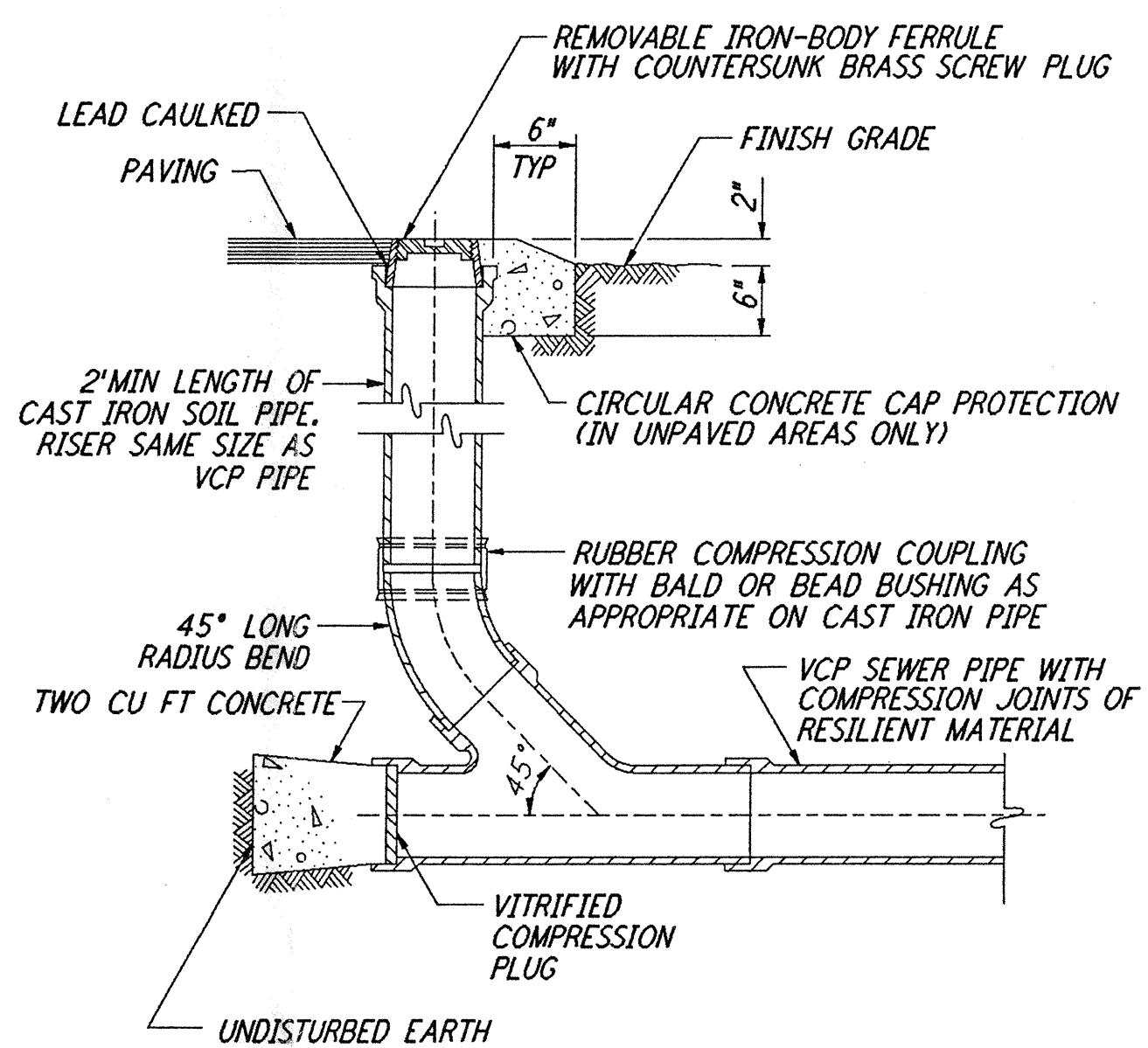


VALVE BOX (1)
 NOT TO SCALE
 NOTE: VALVE SIZE 12" MAXIMUM

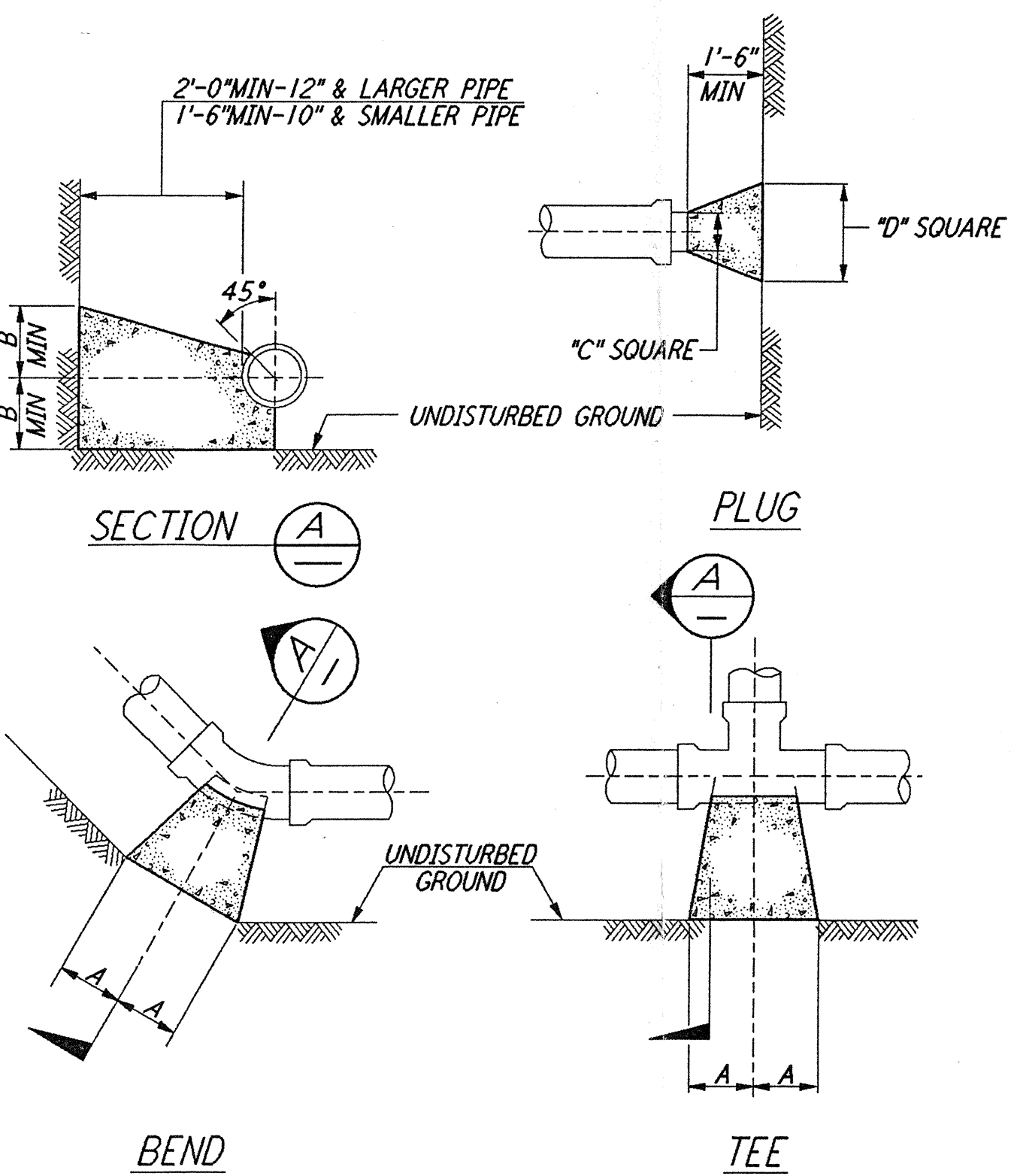
REF	WA-C-055	WA-C-009	WA-C-010	WA-C-023	WA-C-027	WA-C-043	WA-C-047	WA-C-509	WA-C-510
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SANITARY SEWER CLEANOUT (2)
 NOT TO SCALE

- 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.

REF	WA-C-055	WA-C-009	WA-C-010	WA-C-023	WA-C-027	WA-C-043	WA-C-047	WA-C-509	WA-C-510
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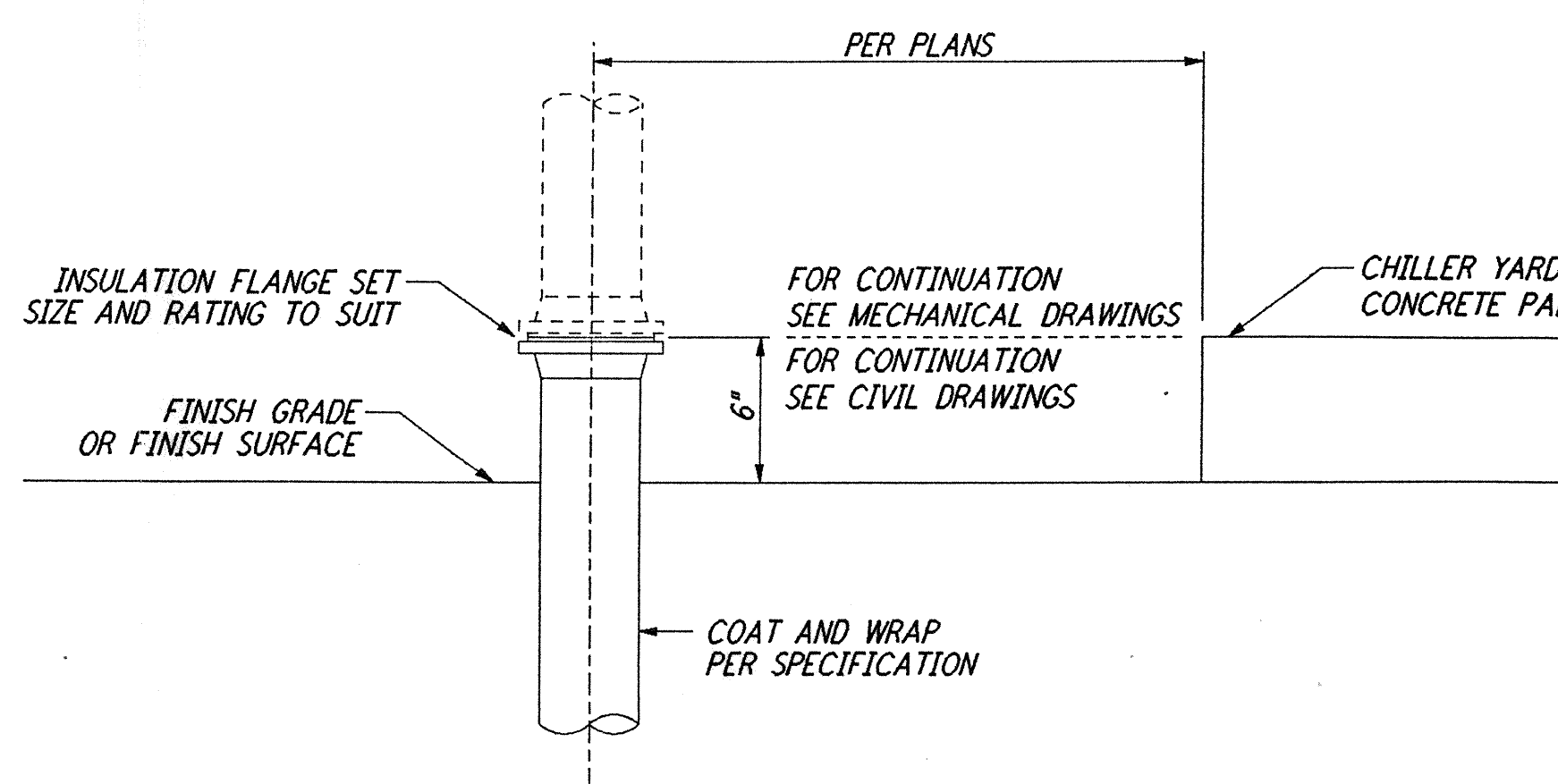


THRUST BLOCK (3)
 NOT TO SCALE

REF	WA-C-055	WA-C-009	WA-C-010	WA-C-023	WA-C-027	WA-C-043	WA-C-047	WA-C-509	WA-C-510
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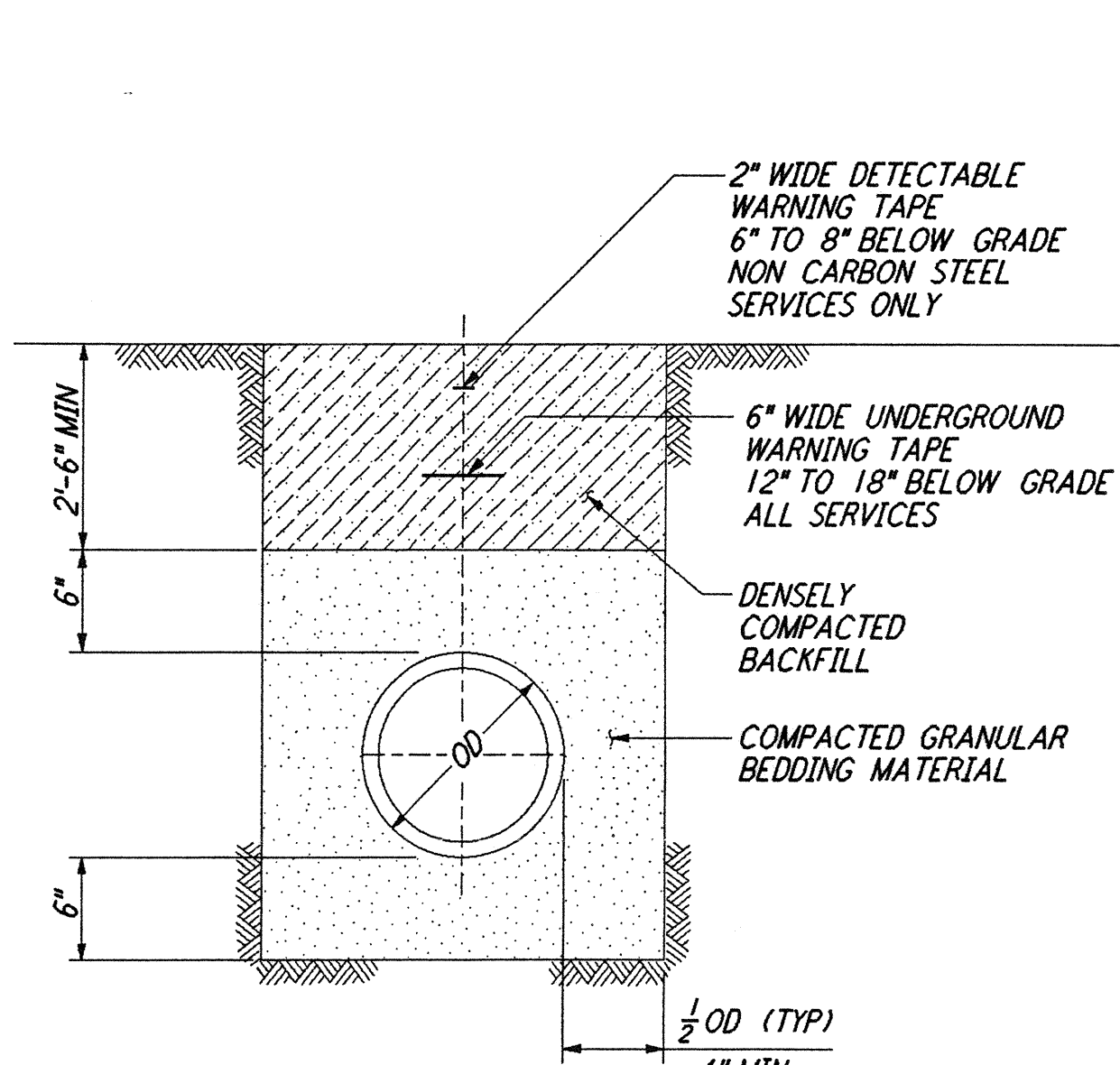
TYPE	SIZE	90° BEND		45° BEND		22½° BEND		TEE		PLUG	
		A	B	A	B	A	B	A	B	C	D
TYPE I 4000 PSF FILL	4"	6"	8"	4"	6"	3"	6"	6"	6"	8"	13"
	6"	8"	10"	6"	8"	3"	8"	8"	8"	10"	15"
	8"	12"	12"	8"	10"	5"	9"	9"	12"	12"	20"
	10"	16"	14"	10"	12"	6"	10"	11"	14"	14"	25"
	12"	19"	16"	12"	14"	8"	11"	14"	16"	16"	30"
TYPE II 2000 PSF FILL	4"	14"	8"	7"	8"	4"	6"	8"	10"	8"	19"
	6"	16"	10"	9"	10"	6"	8"	10"	12"	10"	21"
	8"	22"	13"	12"	13"	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.



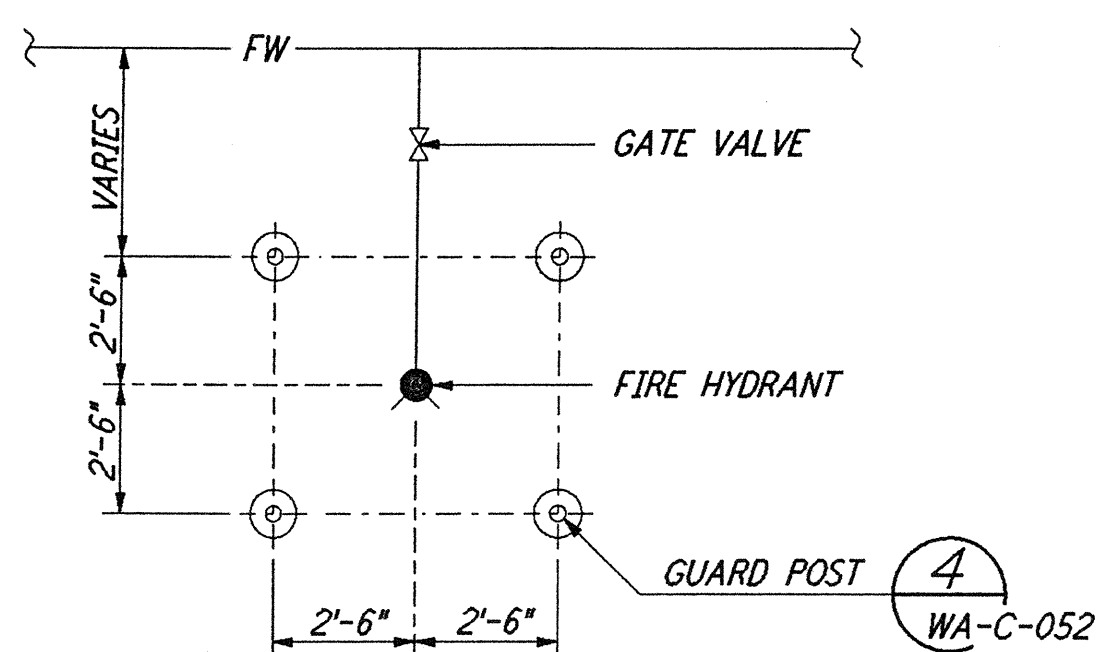
PIPE CONNECTION (4)
 (UNDERGROUND TO OVERHEAD)
 NOT TO SCALE

REF	WA-C-055	WA-C-009	WA-C-010	WA-C-023	WA-C-027	WA-C-043	WA-C-047	WA-C-509	WA-C-510
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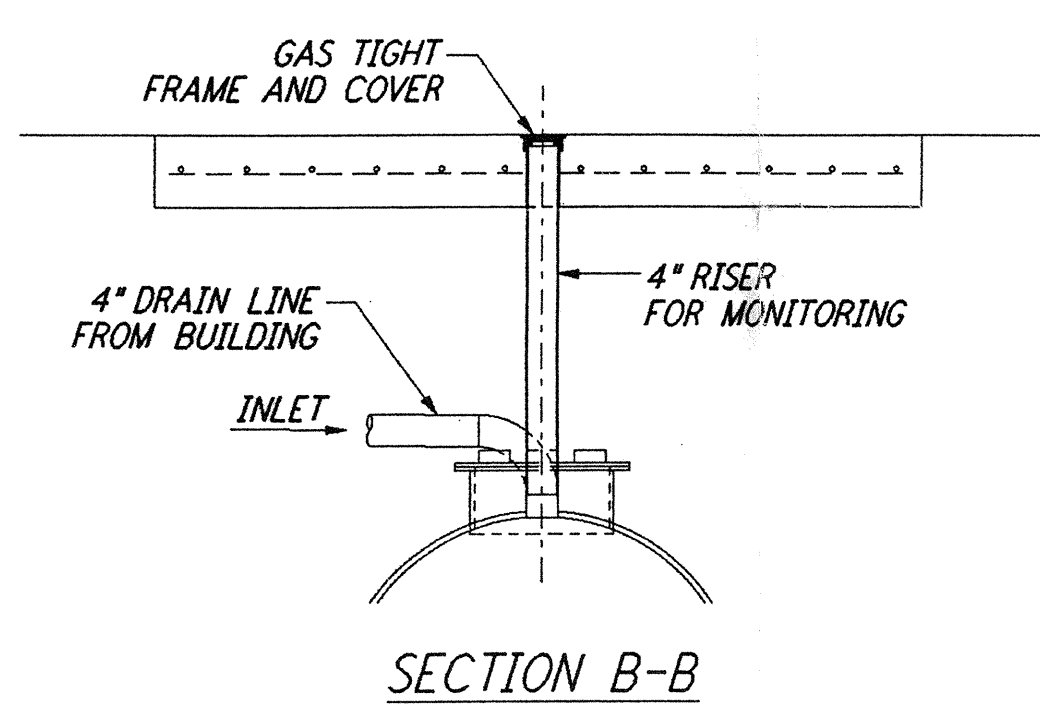
TRENCH BEDDING (5)
 NOT TO SCALE

REF	WA-C-055	WA-C-009	WA-C-010	WA-C-023	WA-C-027	WA-C-043	WA-C-047	WA-C-509	WA-C-510
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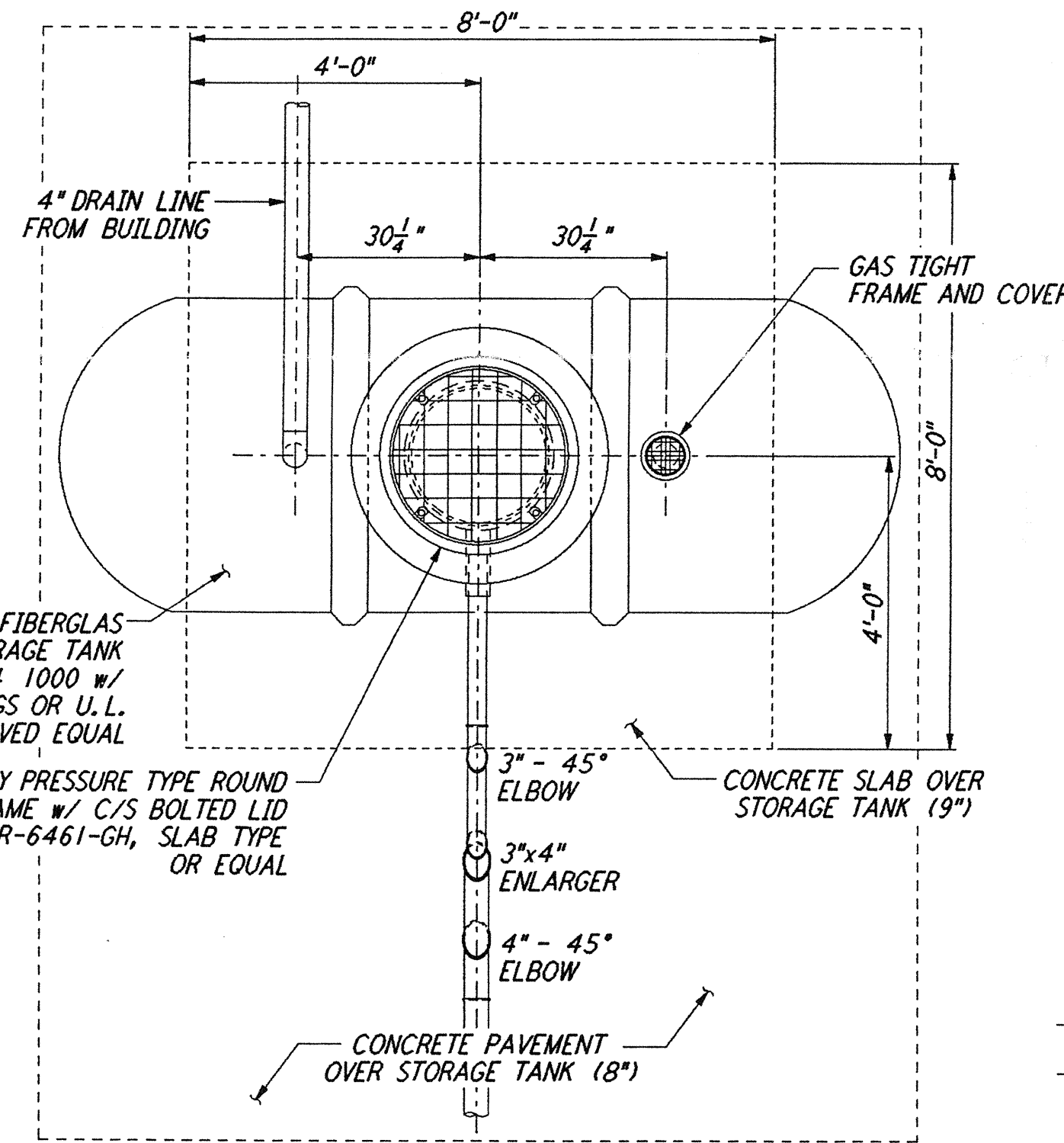


GUARD POST LOCATIONS (6)
 (FIRE HYDRANT)
 NOT TO SCALE

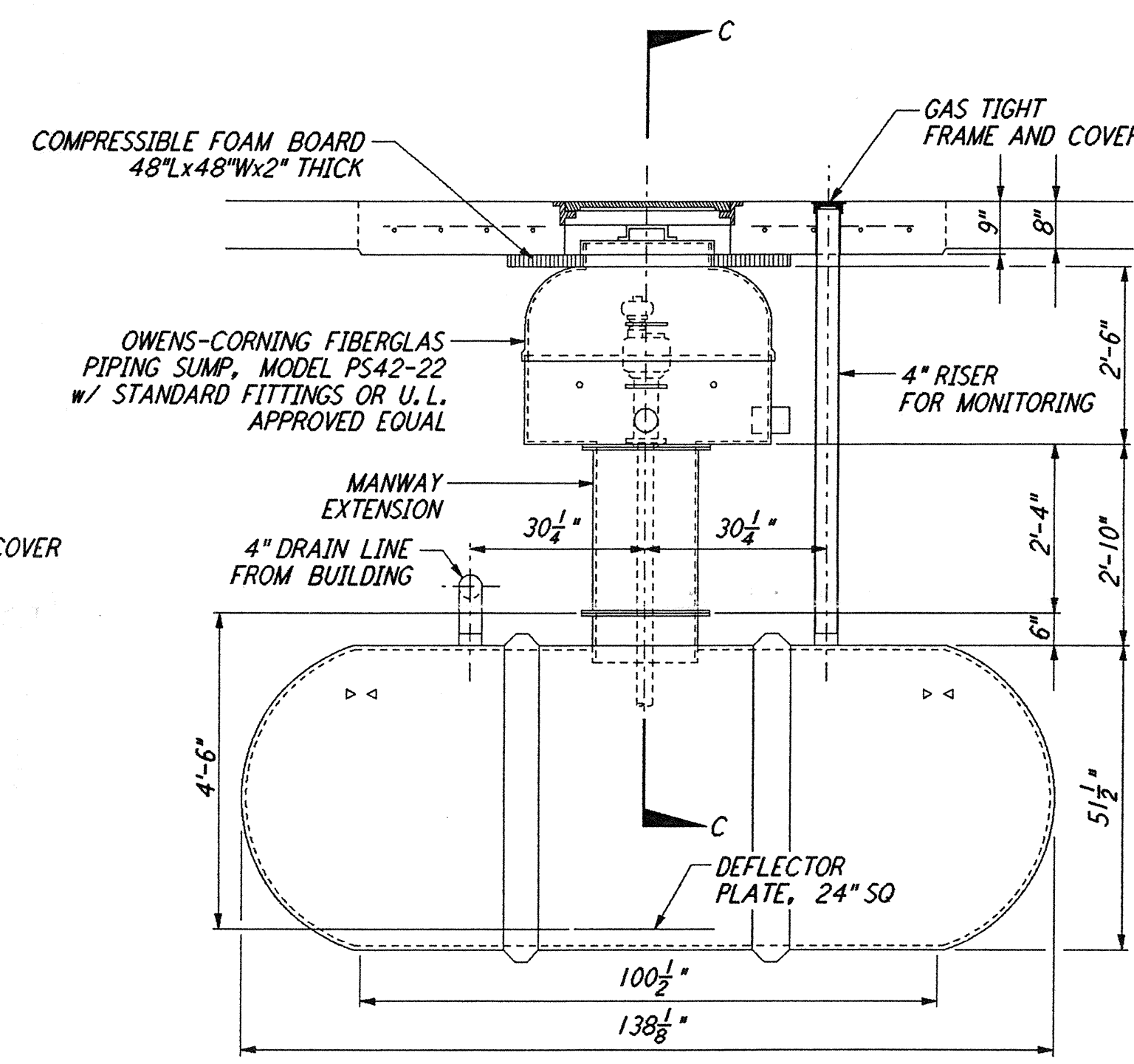
REF	WA-C-055	WA-C-009	WA-C-010	WA-C-023	WA-C-027	WA-C-043	WA-C-047	WA-C-509	WA-C-510
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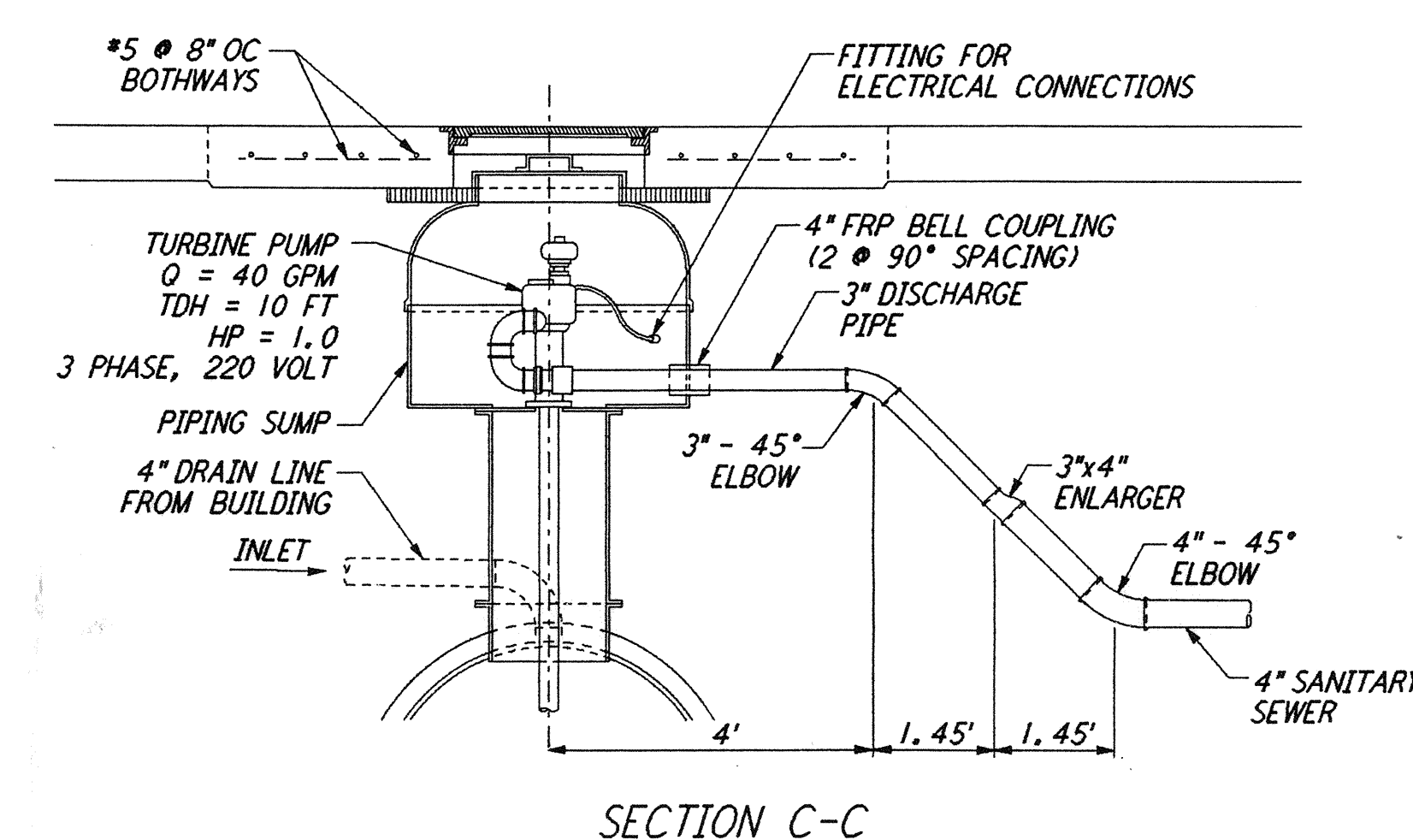
SECTION B-B



PLAN VIEW



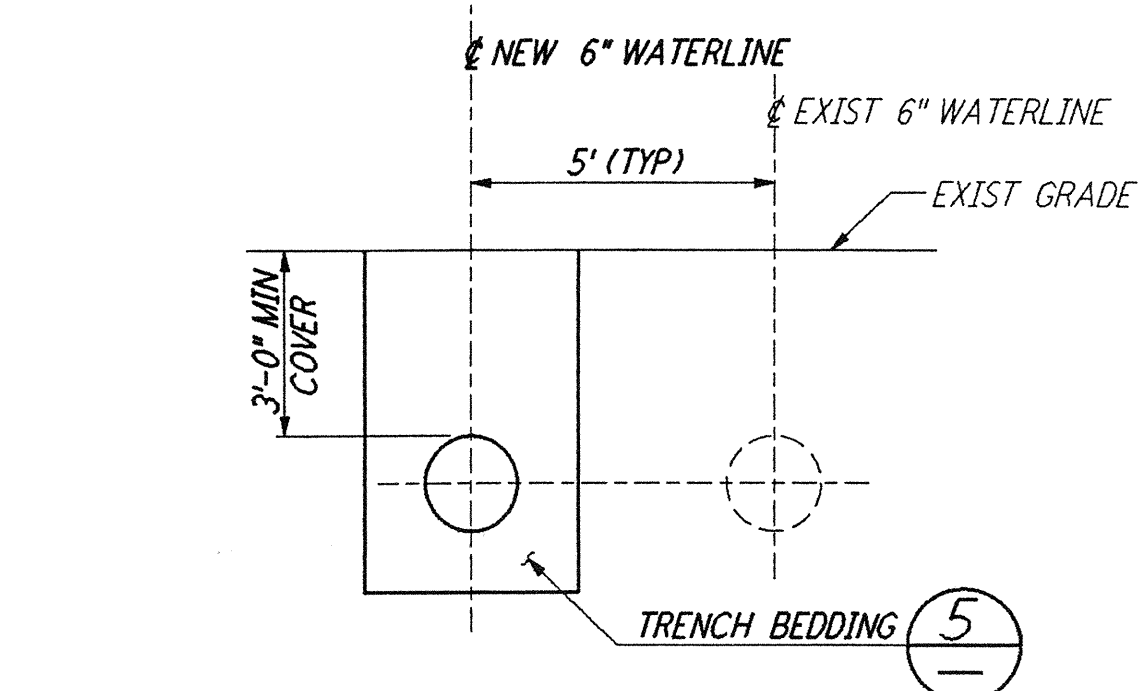
SIDE VIEW



SECTION C-C

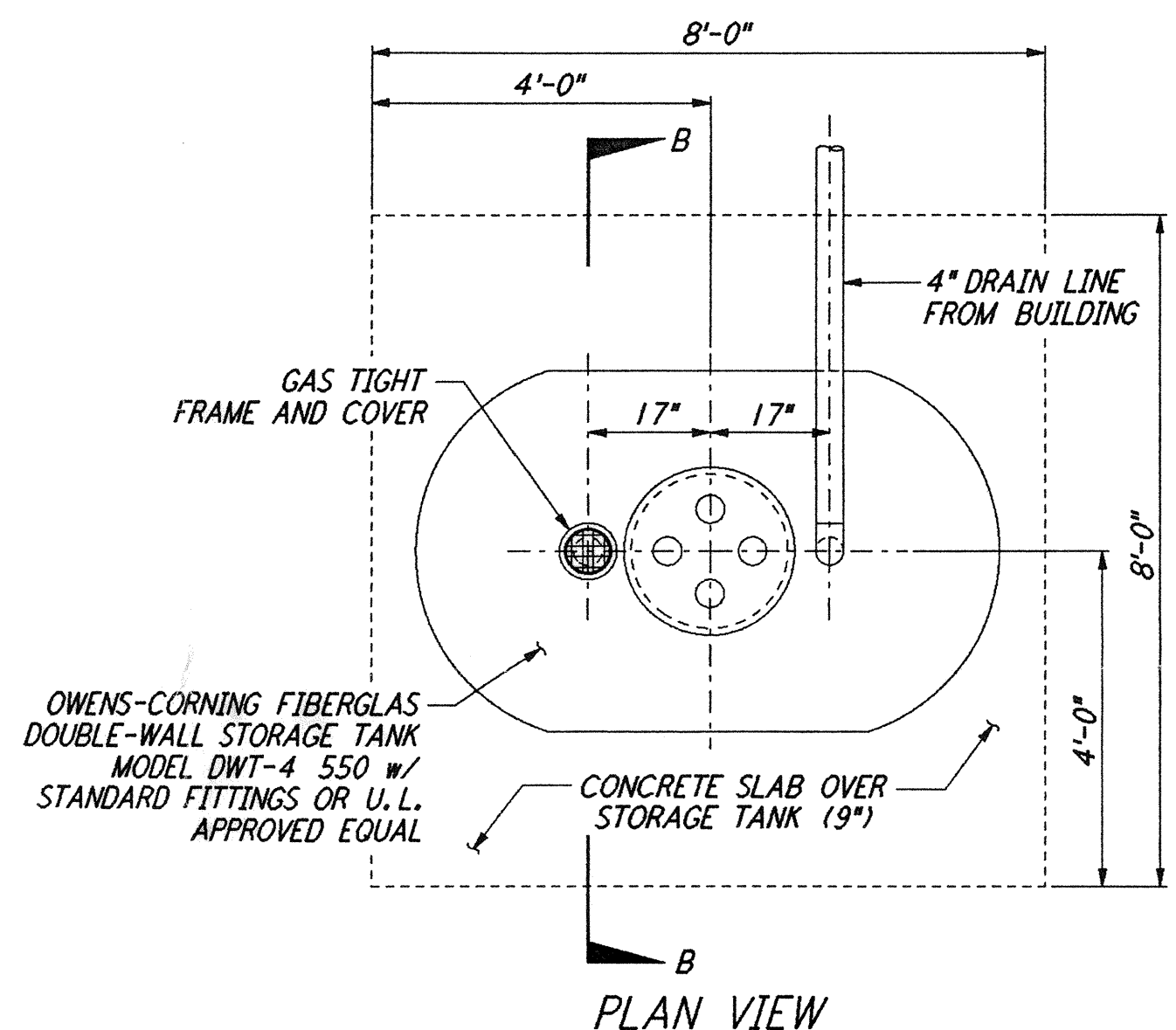
DOUBLE-WALL HOLDING TANK
 1000 GALLONS w/ PIPING SUMP
 NOT TO SCALE

REF	WA-C-055	WA-C-009	WA-C-010	WA-C-023	WA-C-027	WA-C-043	WA-C-047	WA-C-509	WA-C-510
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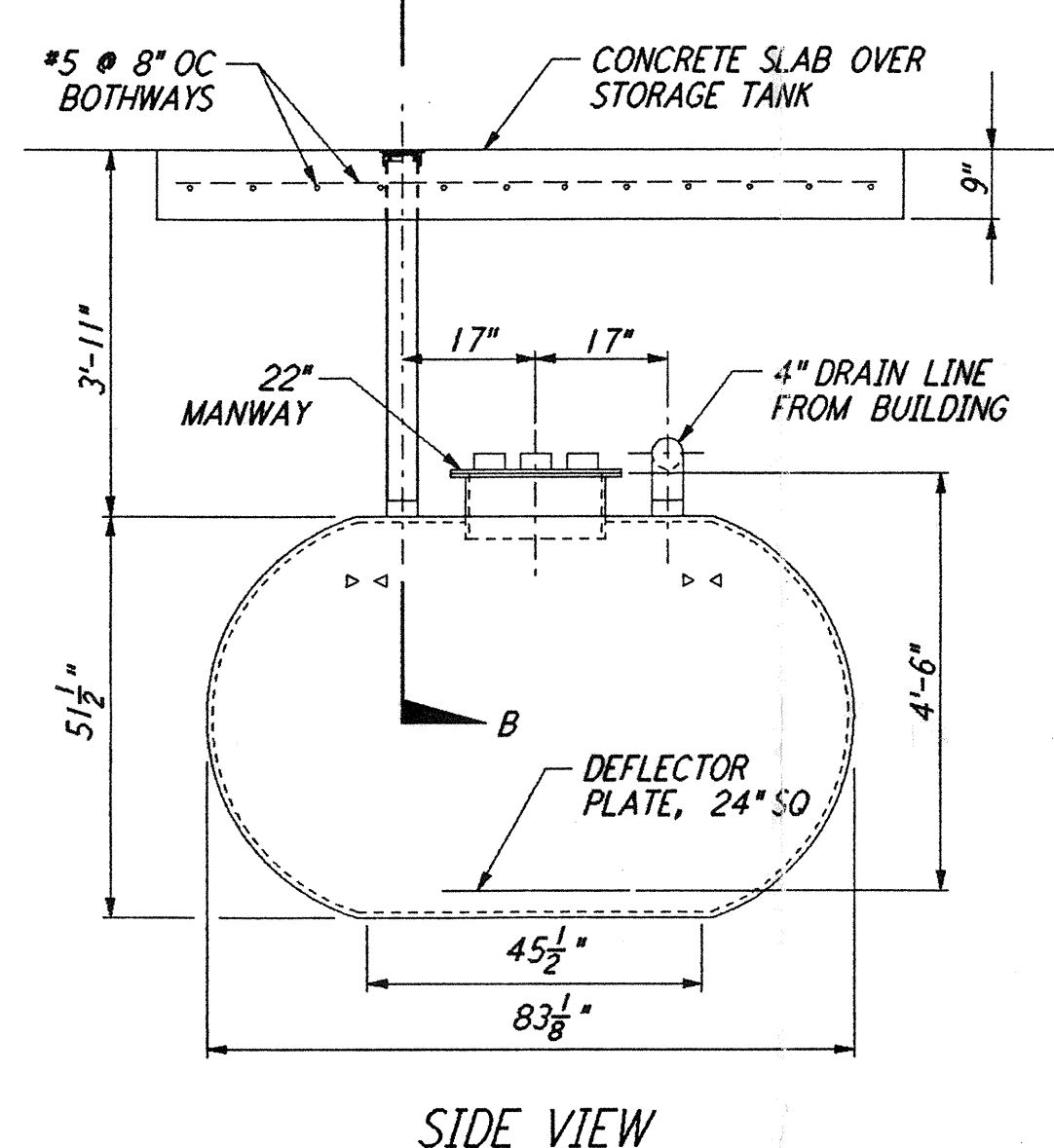


SECTION THRU EXISTING AND NEW WATERLINES (7)
 NOT TO SCALE

REF	WA-C-055	WA-C-009	WA-C-010	WA-C-023	WA-C-027	WA-C-043	WA-C-047	WA-C-509	WA-C-510
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PLAN VIEW



SIDE VIEW

DOUBLE-WALL HOLDING TANK
 500 GALLONS
 NOT TO SCALE

REF	WA-C-055	WA-C-023	WA-C-027	WA-C-043	WA-C-047
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NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION
A	4/19/96	WRB	MM	SP		FINAL DESIGN REVIEW & BID

DRAWN	WRB
CHECKED	
ENGINEER	
PROJ	

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 PASADENA, CALIFORNIA

LIGO
 CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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

TITLE	CIVIL UTILITY DETAILS SHEET I
SCALE	AS NOTED
CONTRACT NUMBER	PP150969
PROJECT NUMBER	8094
SHEET NUMBER	WA-C-055

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