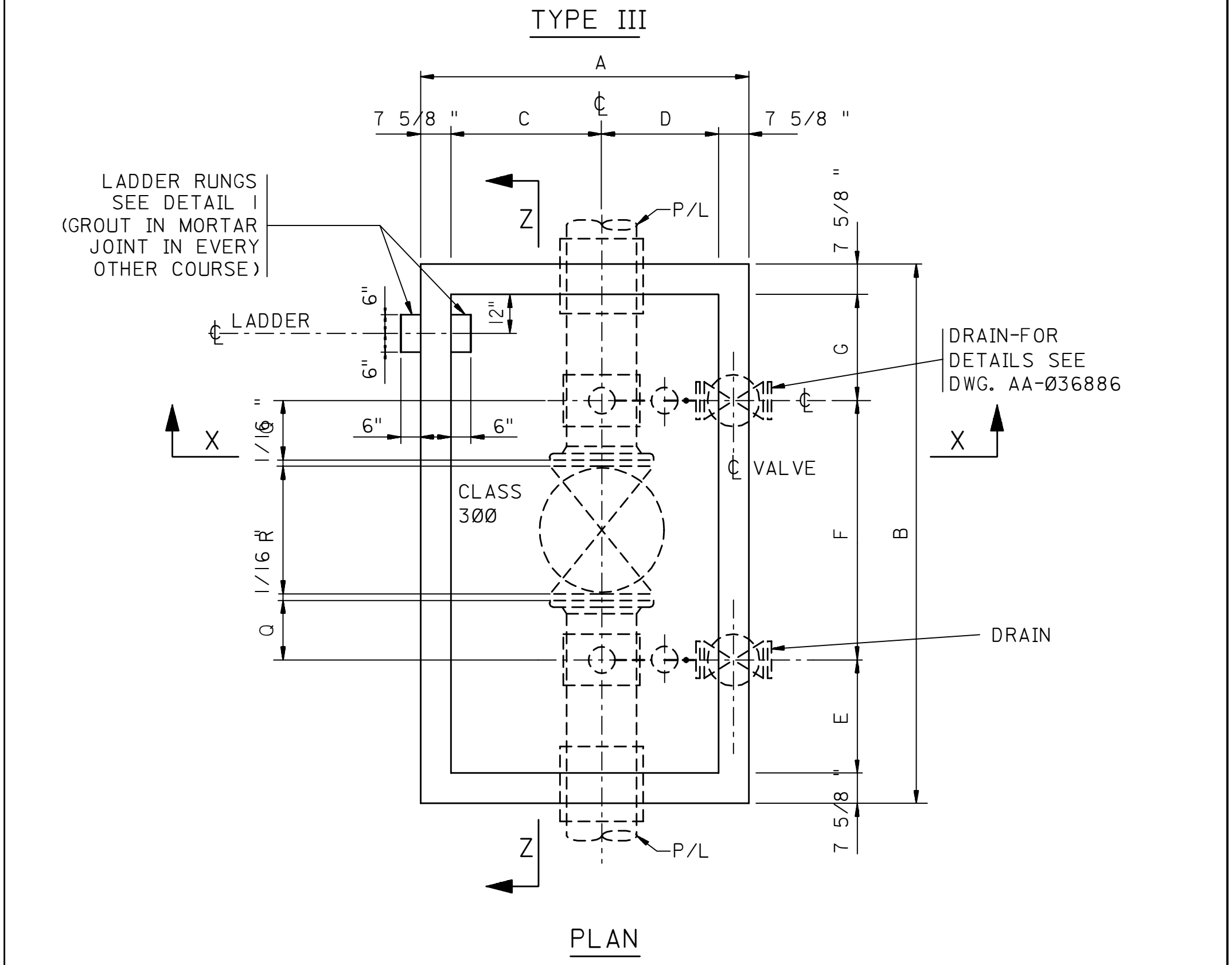
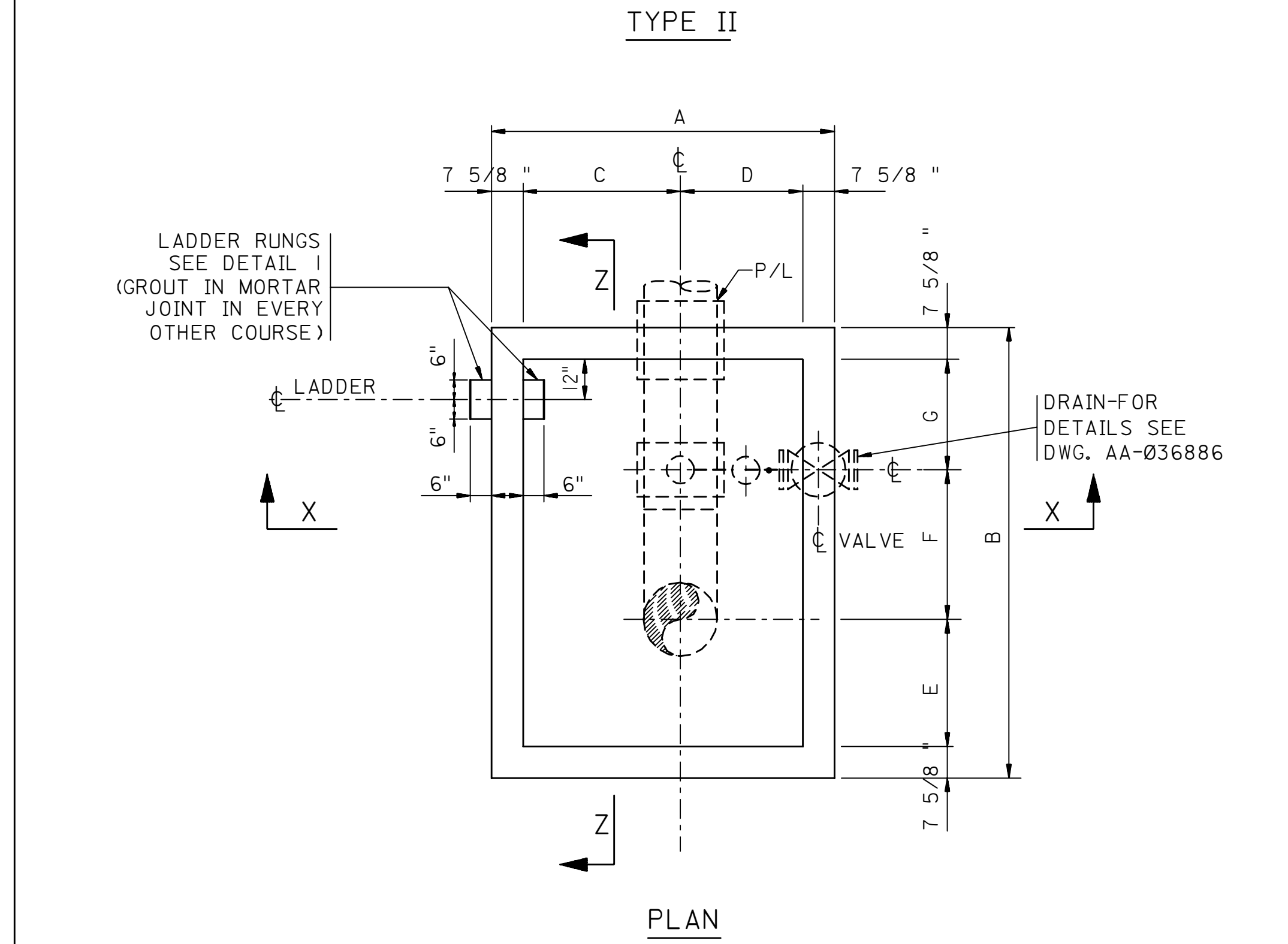
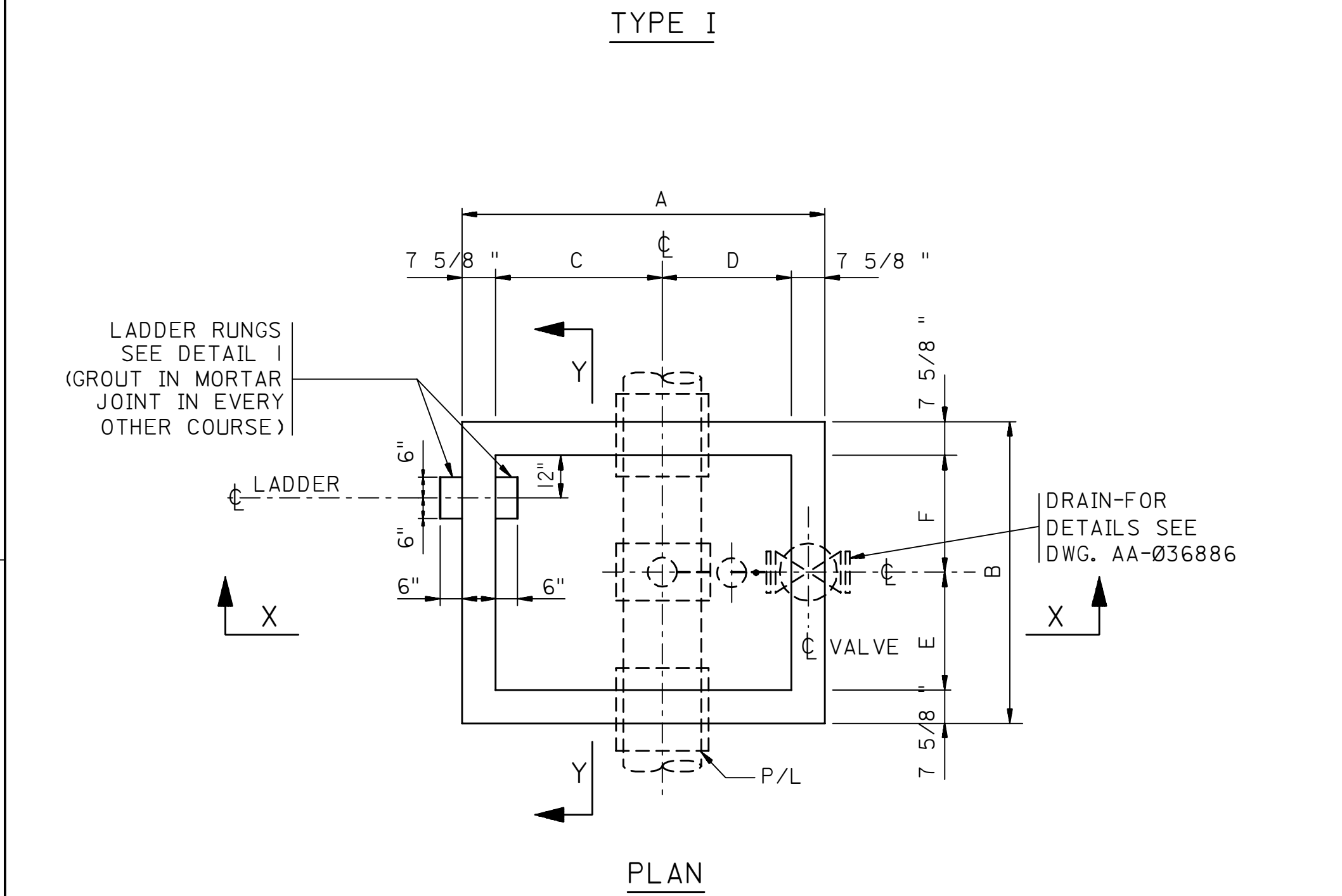


9900	0	AA-036525	2 OF 2	08
PLANT NO.	INDEX	DRAWING NUMBER	SHT. NO.	REV. NO.



- ## GENERAL NOTES
1. CONCRETE TO BE MIXED, PLACED AND CURED. AND TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AFTER 28 DAYS PER CONCRETE CONSTRUCTION SPEC ACS-0-3.
 2. REINFORCEMENT TO BE DEFORMED STEEL.
 3. REINFORCEMENT TO HAVE FOLLOWING COVERAGE OF CONCRETE:
 - A. CONCRETE DEPOSITED DIRECTLY AGAINST GROUND: 3".
 - B. CONCRETE EXPOSED TO GROUND OR TO THE WEATHER BUT PLACED IN FORMS 2".
 3. CONCRETE BEAMS: 1 1/2" FOR NO. 4 @ 500 REBARS OR SMALLER.
 4. LAP OF VERTICAL REBARS IN BLOCK WALLS TO BE 50 DIAMETERS.
 5. FILL BLOCK CELLS WITH GROUT WHERE REBARS ARE USED.
 6. USE 2-NO. 2 @ 250' @ HORIZONTAL REBARS (PLAIN EVERY OTHER COURSE).
 7. PAINT LADDER RUNGS IN ACCORDANCE WITH SAUDI ARAMCO PAINT MANUAL AES-H-1: APCS-4.
 8. IF VALVE IS FOUNDED BELOW WATER TABLE SEE TYPICAL DETAIL 2.
 9. BITUMINOUS MEMBRANE TO BE APPLIED PER CONST. SPEC. ACS-R-5 EXCEPT ONLY (2) MOPPINGS OF 15 BS FELT AND (2) LAYERS OF 15 BS FELT ARE REQUIRED.
 10. THE LIVE LOADS SHOULD NOT AMOUNT TO MORE THAN 100 LBS PER SQ. FT EQUIVALENT TO ONE FOOT OF SAND.
 11. THE CRUSHING STRENGTH OF THE BLOCKS SHOULD BE 700 PSI MIN.
 12. NO WHEEL LOADS ARE ALLOWED NEARER TO THE BOXES THAN THE DISTANCE FROM GRADE TO BOTTOM OF BLOCKWORK.
 13. SLEEVE DIAMETER TO BE 4 INCH. LARGER THAN P/L SIZE. INSTALL A WILLIAMSON OR EQUAL TYPE INSULATOR BETWEEN SLEEVE AND PIPE.

VALVE BOX WITH 6" DRAINS								
SUB TYPE	SIZE OF P/L	DIMENSION mm						
		A	B	C	D	E	F	
A	20", 22" & 24"	7'-11 1/4	6'-7 1/4	"3'-4"	3'-4"	2'-8"	2'-8"	
B	30"	7'-11 1/4	6'-7 1/4	"3'-3"	3'-5"	2'-8"	2'-8"	
C	36"	8'-7 1/4	6'-7 1/4	"3'-8"	3'-8"	2'-8"	2'-8"	
D	42" & 48"	9'-3 1/4	6'-7 1/4	"4'-11"	3'-11"	2'-8"	2'-8"	

VALVE BOX WITH 6" DRAINS											
SUB TYPE	SIZE OF P/L	DIMENSION mm									
		A	B	C	D	E	F	G			
A	20"	7-11 1/4	10-7 1/4	3'-4"	3'-4"	3'-2"	3'-6"	2'-8"			
B	22"	7-11 1/4	10-7 1/4	3'-4"	3'-4"	2'-11"	3'-9"	2'-8"			
C	24"	7-11 1/4	11'-3 1/4	3'-4"	3'-4"	3'-4"	3'-4"	2'-8"			
D	30"	7-11 1/4	11'-11 1/4	3'-3"	3'-5"	3'-3"	4'-9"	2'-8"			
E	36"	8'-7 1/4	13'-3 1/4	3'-8"	3'-8"	3'-10"	5'-6"	2'-8"			
F	42"	9'-3 1/4	13'-11 1/4	3'-11"	4'-1"	3'-9"	6'-3"	2'-8"			
G	48"	9'-3 1/4	15'-3 1/4	3'-11"	4'-1"	4'-4"	7'-0"	2'-8"			

VALVE BOX WITH 6" DRAINS												
SUB TYPE	SIZE OF P/L	DIMENSION mm										
		A	B	C	D	E	F	G	Q	R		
A	20"	7'-11 1/4	3'-3 1/4	3'-4"	3'-4"	2'-10 7/8	6'-5 1/8	2'-8"	19"	3'-3"		
B	22"	8'-7 1/4	3'-11 1/4	3'-8"	3'-8"	3'-2 7/8	6'-9 1/8	2'-8"	19"	3'-7"		
C	24"	8'-7 1/4	3'-11 1/4	3'-8"	3'-8"	3'-0 7/8	6'-11 1/8	2'-8"	19"	3'-9"		
D	30"	9'-3 1/4	3'-15 3/4	3'-10"	4'-2"	3'-2 7/8	8'-1 1/8	2'-8"	21"	4'-7"		
E	36"	9'-11 1/4	3'-15 3/4	4'-3"	4'-5"	2'-9 7/8	9'-2 1/8	2'-8"	21"	5'-8"		
F	42"	10'-7 1/4	4'-7 3/4	4'-8"	4'-8"	2'-8 7/8	10'-7 1/8	2'-8"	2'-0"	6'-7"		
G	48"	10'-7 1/4	4'-8 7/8	4'-8"	4'-8"	3'-1 7/8	11'-6 1/8	2'-8"	2'-0"	7'-6"		

[illegible]

VALVE BOX WITH 12" DRAINS										
SUB TYPE	SIZE OF P/L	DIMENSION mm								
		A	B	C	D	E	G			
AA	20"	9'-11 1/4"	1'-4 1/2"	1'-4 3/4"	5'-5"	3'-0"	4'-0"	3'-0"		
BB	22"	9'-11 1/4"	1'-4 1/2"	1'-4 3/4"	5'-5"	3'-5"	4'-3"	3'-0"		
CC	24"	9'-11 1/4"	1'-4 1/2"	1'-4 3/4"	5'-5"	3'-2"	4'-6"	3'-0"		
DD	30"	9'-11 1/4"	1'-4 3/4"	1'-4 3/4"	5'-5"	3'-9"	5'-3"	3'-0"		
EE	36"	10'-7 1/4"	1'-4 3/4"	1'-4 3/4"	5'-5"	3'-8"	6'-0"	3'-0"		
FF	42"	10'-7 1/4"	1'-4 5/8"	1'-4 3/4"	5'-5"	4'-3"	6'-9"	3'-0"		
GG	48"	11'-3 1/4"	1'-4 5/8"	1'-4 4"-7"	5'-5"	4'-2"	7'-6"	3'-0"		

VALVE BOX WITH 12" DRAINS														
SUB TYPE	SIZE OF P/L	DIMENSION mm												
		A	B	C	D	E	F	G	Q	R				
AA	20"	9'-11"	1/4	4'-7"	1/4	3'-3"	5'-5"	2'-10	7/8	8'-15	1/8	3'-0"	2'-11"	3'-3"
BB	22"	10'-7"	1/4	5'-3"	1/4	3'-11"	5'-5"	3'-2	7/8	7'-9"	1/8	3'-0"	2'-11"	3'-7"
CC	24"	10'-7"	1/4	5'-3"	1/4	3'-11"	5'-5"	3'-0	7/8	7'-11"	1/8	3'-0"	2'-11"	3'-9"
DD	30"	10'-7"	1/4	6'-7"	1/4	3'-11"	5'-5"	3'-2	7/8	9'-1"	1/8	3'-0"	2'-3"	4'-7"
EE	36"	11'-3"	1/4	7'-11"	1/4	4'-7"	5'-5"	3'-5	7/8	10'-2	1/8	3'-0"	2'-3"	5'-8"
FF	42"	11'-3"	1/4	9'-3"	1/4	4'-7"	5'-5"	3'-4	7/8	11'-7"	1/8	3'-0"	2'-6"	6'-7"
GG	48"	11'-11"	1/4	9'-3"	1/4	5'-3"	5'-5"	3'-1	7/8	12'-6	1/8	3'-0"	2'-6"	7'-6"

REFERENCE DRAWINGS	
CONCRETE CONSTRUCTION SPECIFICATION	ACS-Q-3
MEMBRANE WATERPROOFING	ACS-R-5
VALVE BOXES, POURED CONCRETE	AA-036365
DETAILS OF PIPELINE DRAINS	AA-036886

