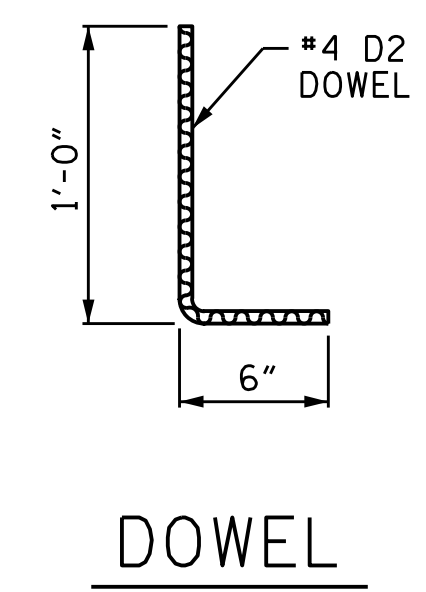
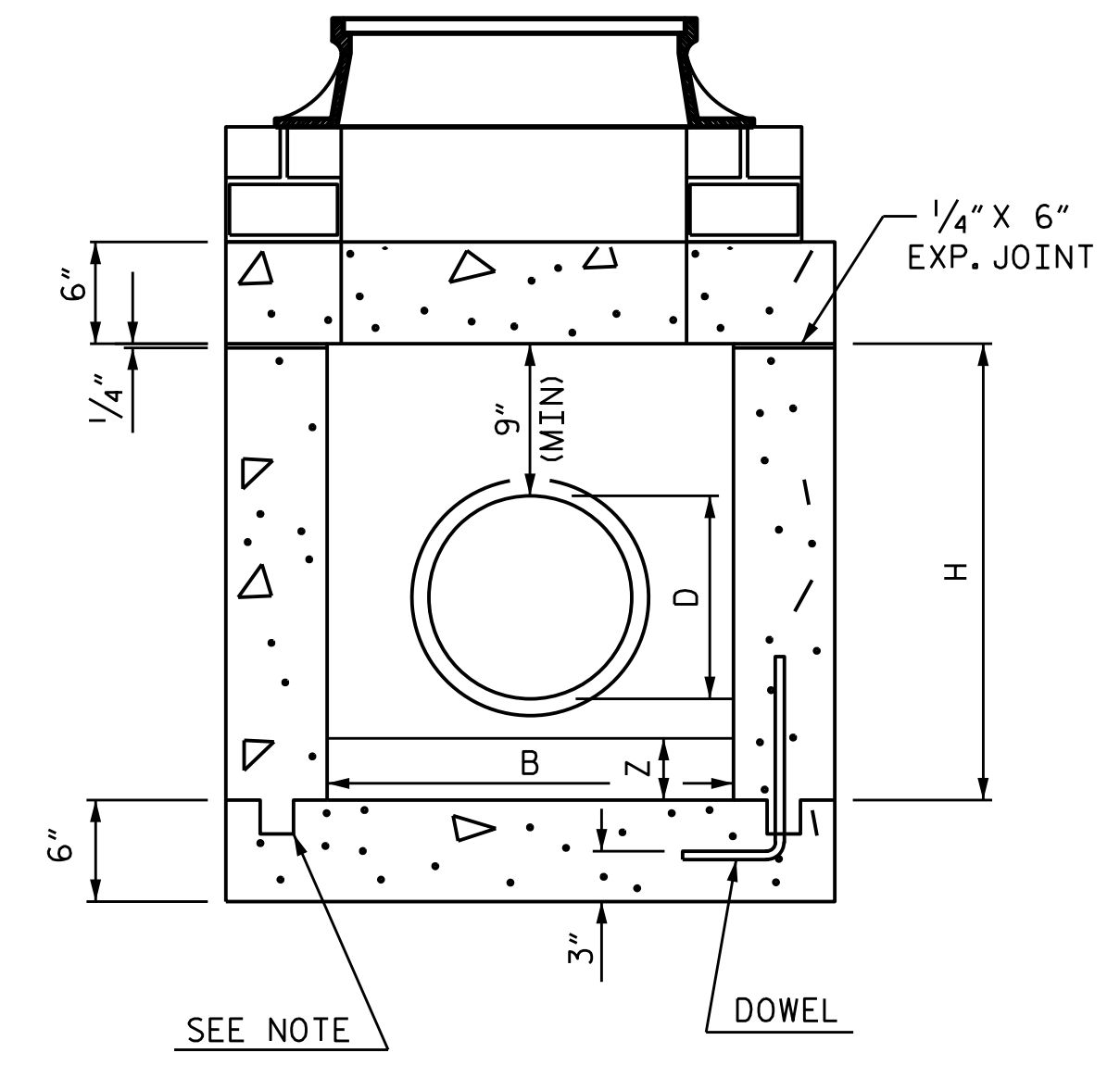
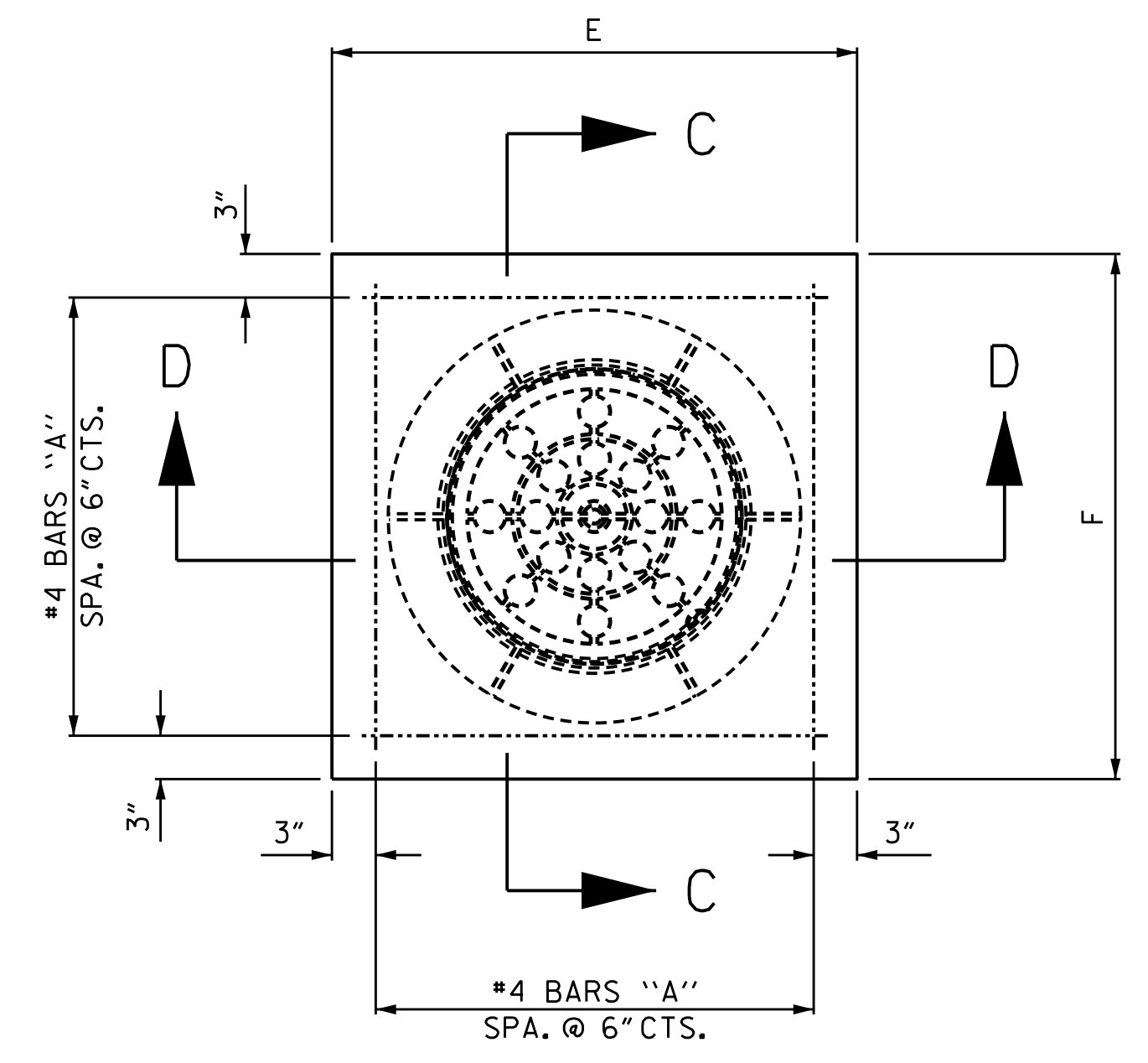
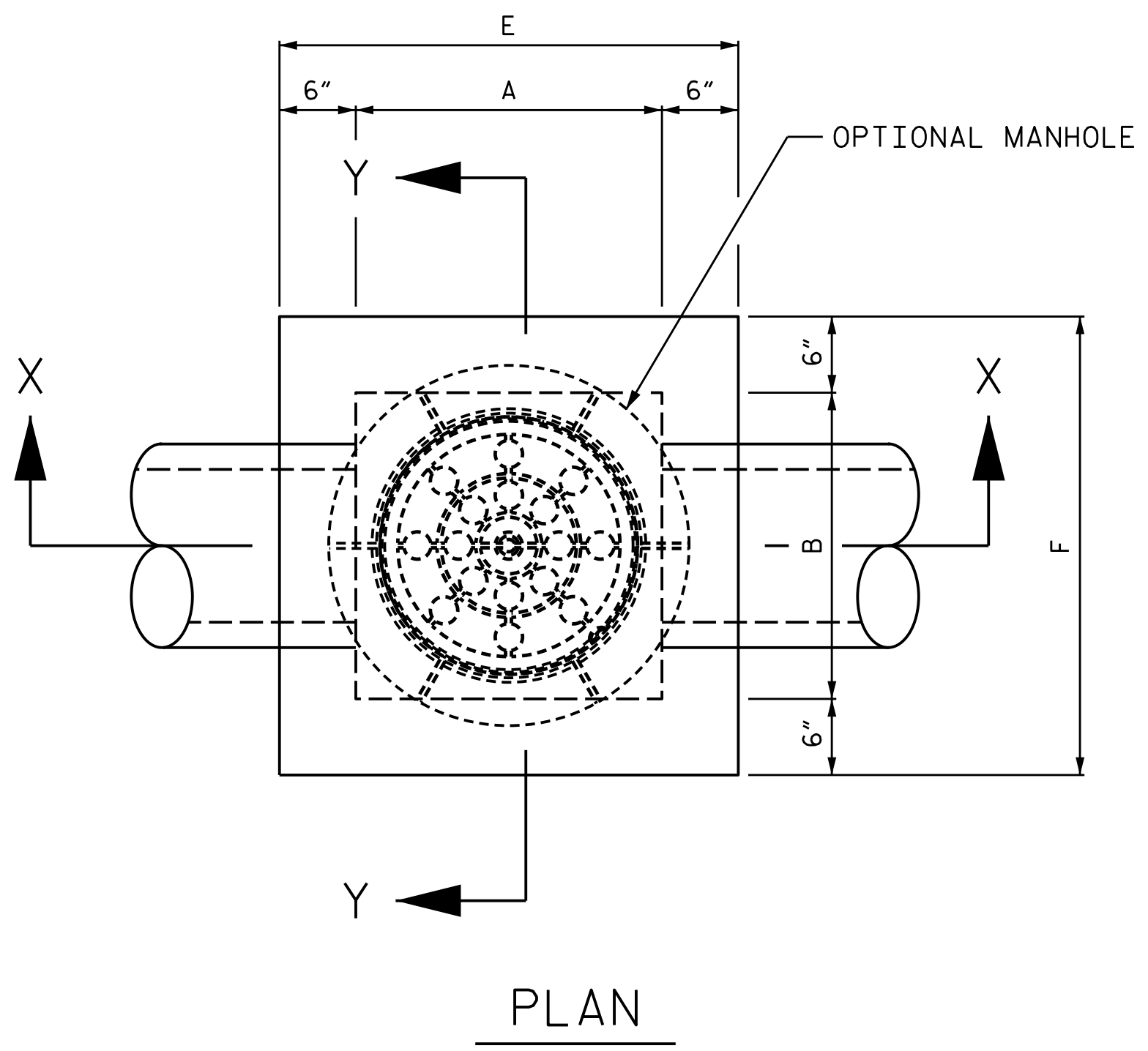
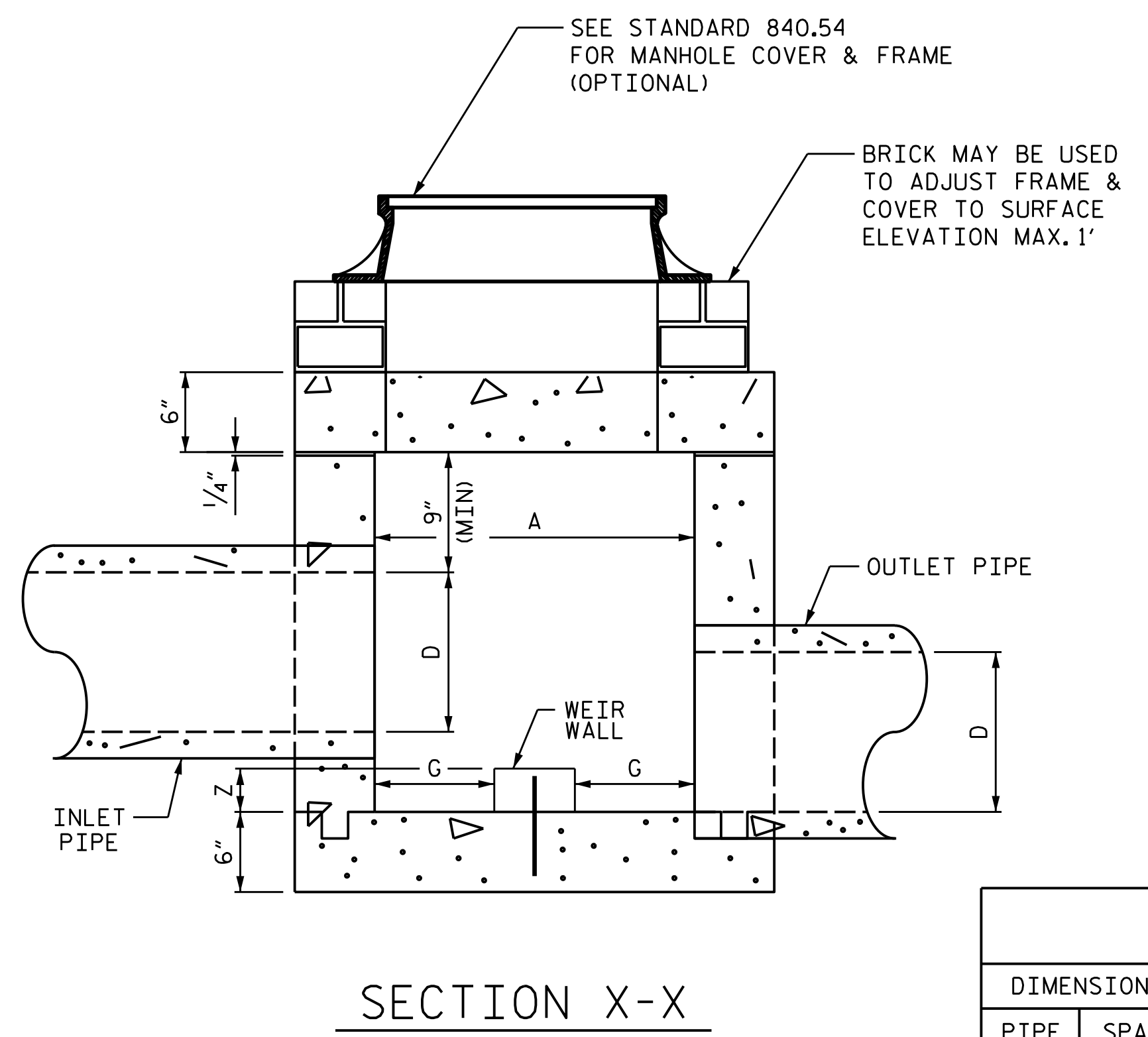
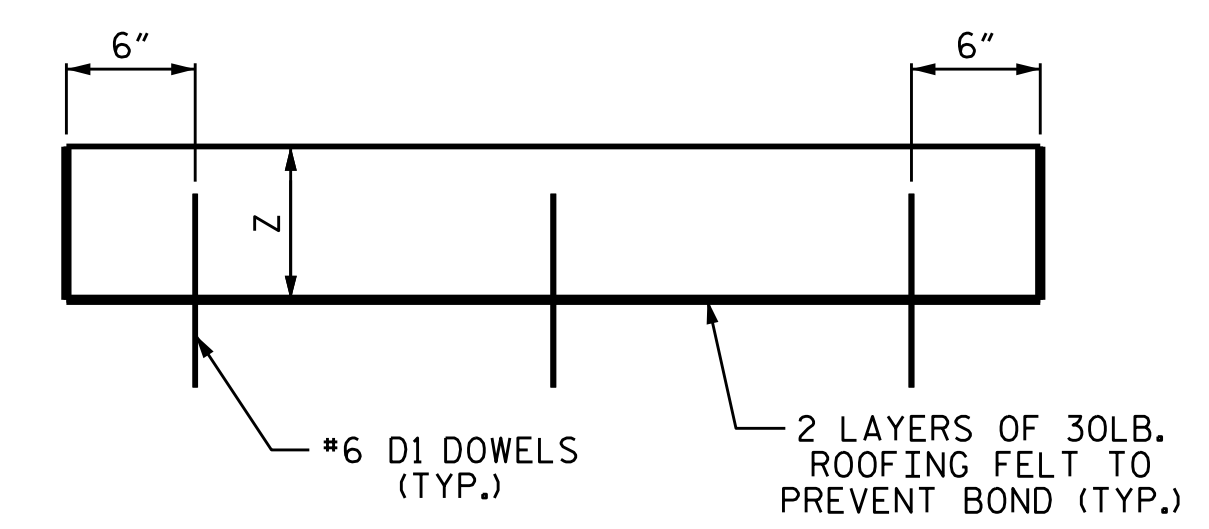
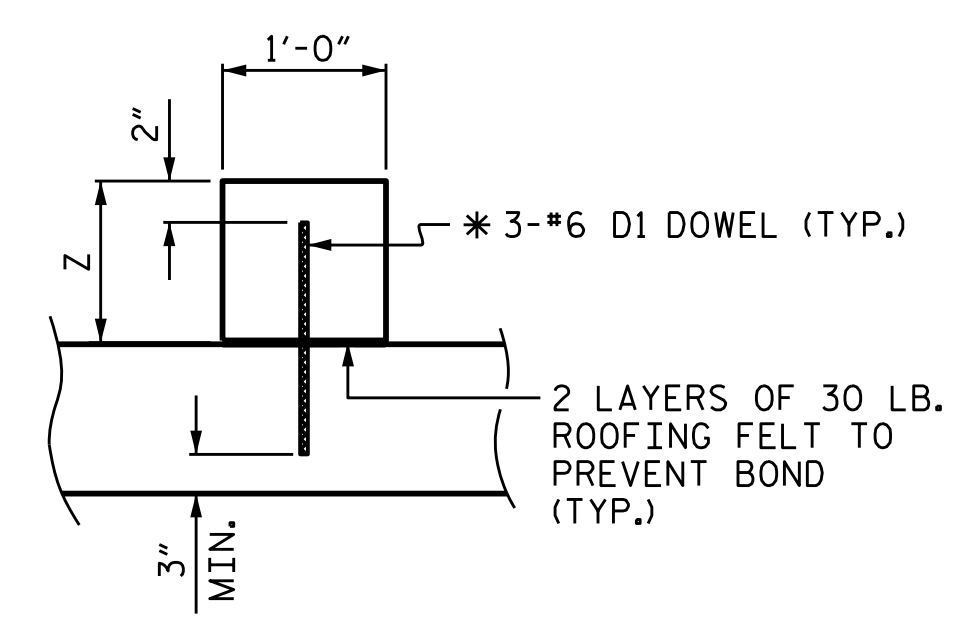
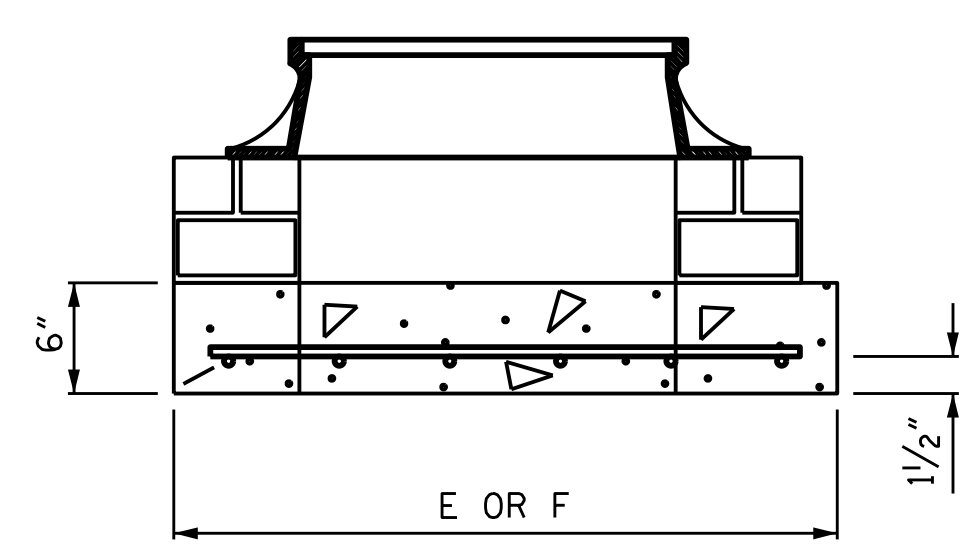


PROJECT REFERENCE NO. A-0009CA	SHEET NO. 2D-2
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED TGS ENGINEERS 706 HILLSBOROUGH STREET SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	



- GENERAL NOTES:
- CHAMFER ALL EXPOSED CORNERS 1".
 - USE CLASS "B" CONCRETE THROUGHOUT.
 - OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
 - USE FORMS TO CONSTRUCT THE BOTTOM SLAB.
 - IF REINFORCED CONCRETE PIPE IS SET IN BASE SLAB OF BOX, ADD TO BASE AS SHOWN ON STANDARD NO. 840.00.
 - PROVIDE ALL JUNCTION BOXES OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTERS IN ACCORDANCE WITH STD. NO. 840.66.
 - ADJUST THE STEEL, CONCRETE AND BRICK MASONRY QUANTITIES TO INCLUDE THE ADDITION OF THE MANHOLE (I.E. DIAGONAL BARS SHORTENED AROUND OPENING IN TOP SLAB, ADDITIONAL VARIABLE HEIGHT BRICK MASONRY, OPENING IN TOP SLAB.)



* DOWELS MAY BE PUSHED INTO GREEN CONCRETE AFTER SLAB HAS BEEN FLOAT FINISHED.

DIMENSIONS AND QUANTITIES FOR CONCRETE JUNCTION BOXES																		
DIMENSIONS OF BOX AND PIPE				WEIR WALL		REINFORCEMENT BARS "A"		TOP SLAB DIMENSIONS		CUBIC YARDS IN BOX				TOTAL QUANTITIES BOX AND SLABS		DEDUCTIONS FOR ONE PIPE (CU. YDS.)		
PIPE	SPAN	WIDTH	HEIGHT	G	Z	NO.	LENGTH	E	F	TOP SLAB	BOTTOM SLAB	WALL/ FT. OF HT.	WEIR WALL	LBS. REINF.	CU. YDS. (MIN. "H")	C.S.	R.C.	
36"	4'-0"	4'-0"	10'-2"	1'-6"	1'-0"	20	4'-9"	5'-0"	5'-0"	0.463	0.463	0.333	0.148	68	4.460	0.132	0.178	
48"	5'-4"	5'-4"	8'-0"	2'-2"	1'-0"	26	6'-1"	6'-4"	6'-4"	0.743	0.743	0.432	0.198	111	5.140	0.235	0.317	
54"	5'-10"	5'-10"	6'-9"	2'-5"	6"	28	6'-7"	6'-10"	6'-10"	0.865	0.865	0.469	0.108	126	5.004	0.297	0.401	
60"	6'-6"	6'-6"	8'-7"	2'-9"	1'-0"	30	7'-3"	7'-6"	7'-6"	1.042	1.042	0.519	0.241	150	6.780	0.367	0.495	

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

CONCRETE JUNCTION
 BOX

(WITH OPTIONAL MANHOLE)