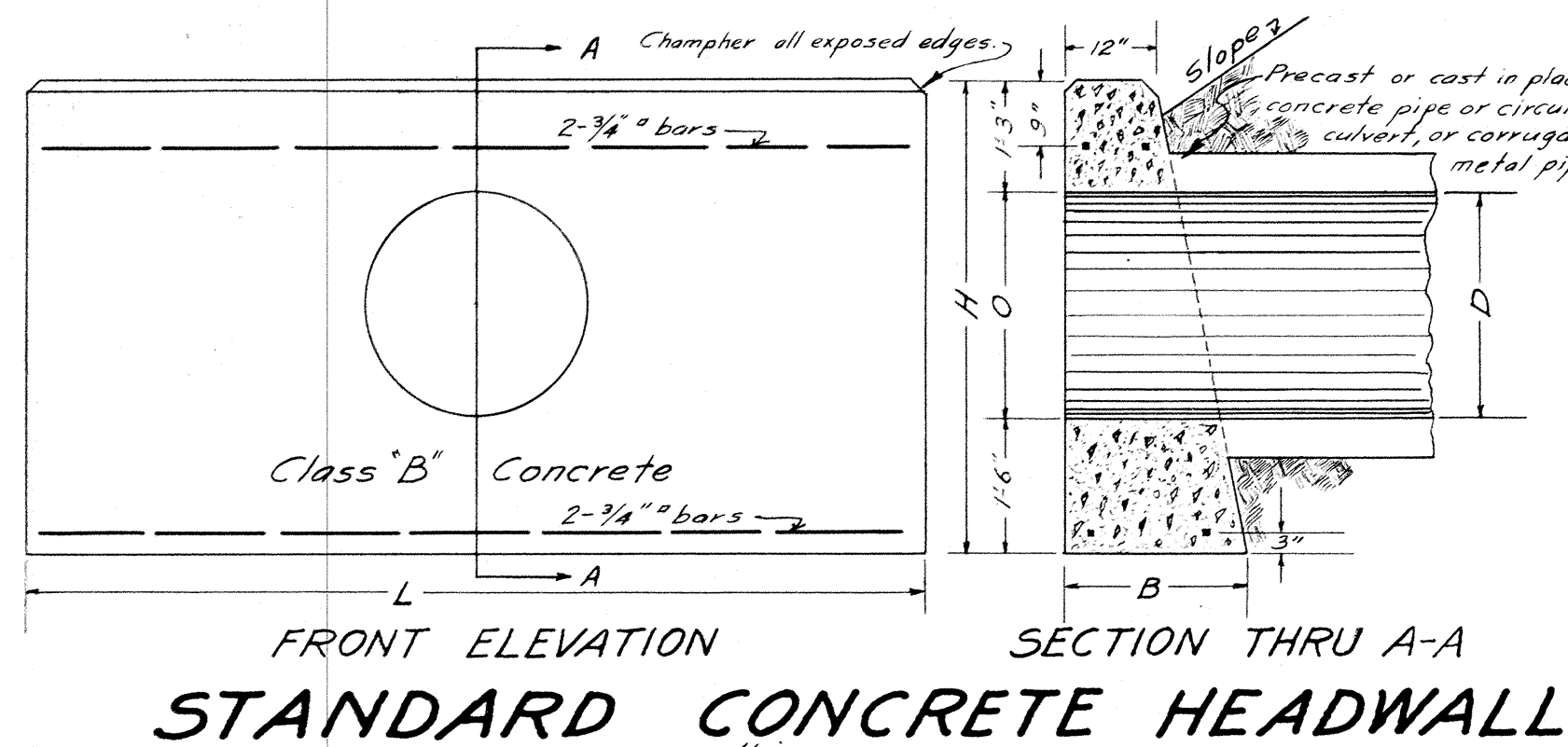
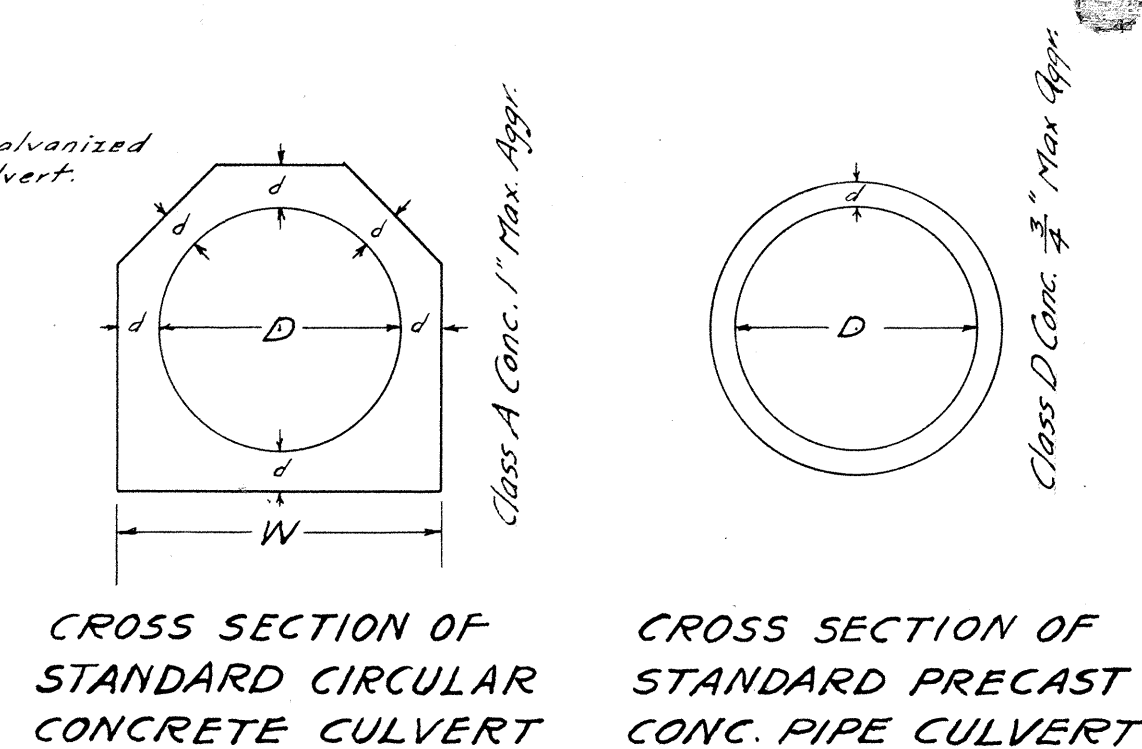
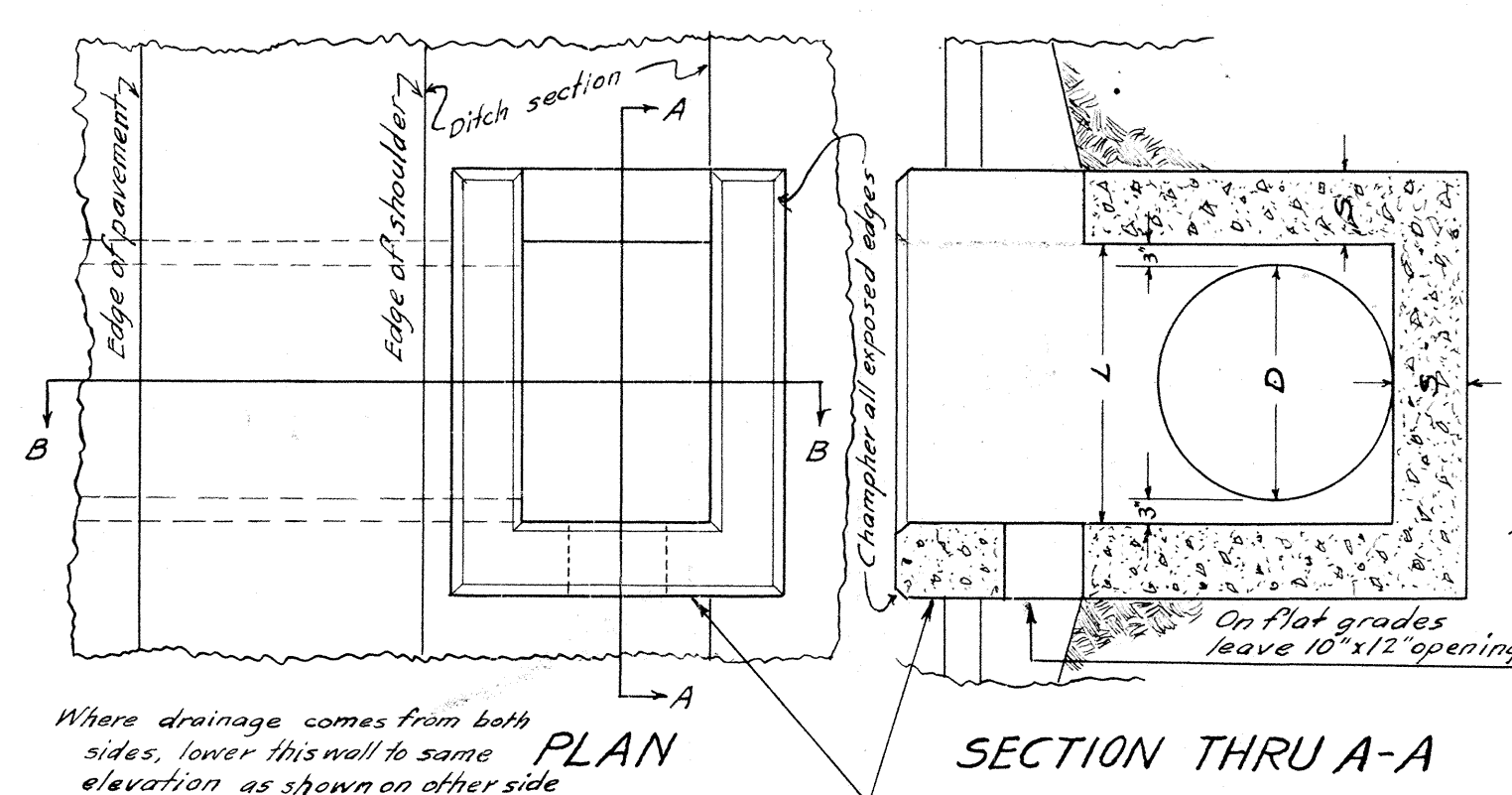




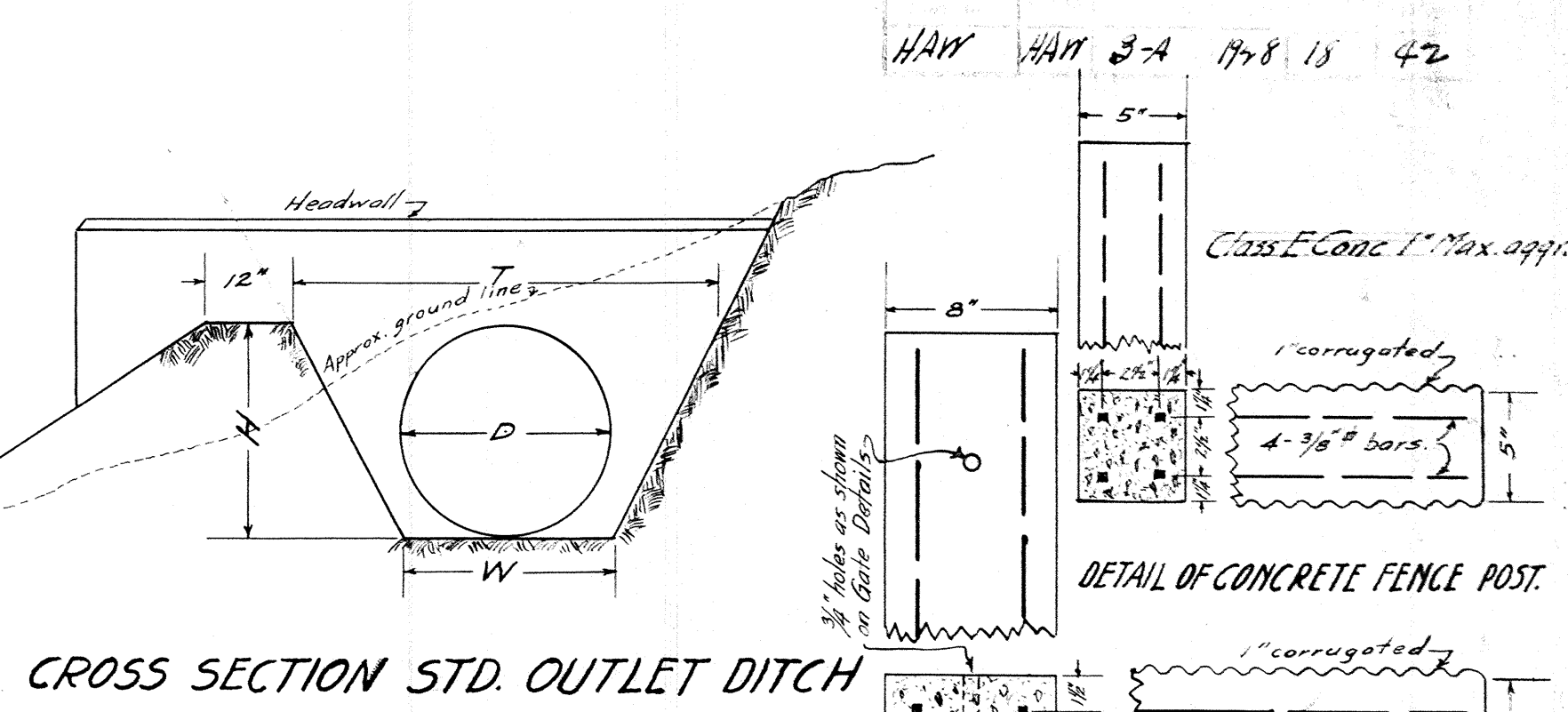
DATA - STANDARD CONCRETE HEADWALL					STEEL - ONE H.W.				
D	B	L	H	O	CONC. ONE H.W.	NO. BARS	SIZE	LENGTH	WT. LBS.
18"	1'-6"	6'-6"	4'-3"	18"	1.14	Cu Yds.	3/4"	6'-0"	45.9
24"	1'-6"	8'-0"	4'-9"	24"	1.53	"	3/4"	7'-6"	57.4
30"	2'-0"	10'-0"	5'-3"	30"	2.48	"	3/4"	9'-6"	72.7
36"	2'-0"	12'-0"	5'-9"	36"	3.46	"	3/4"	11'-6"	88.0



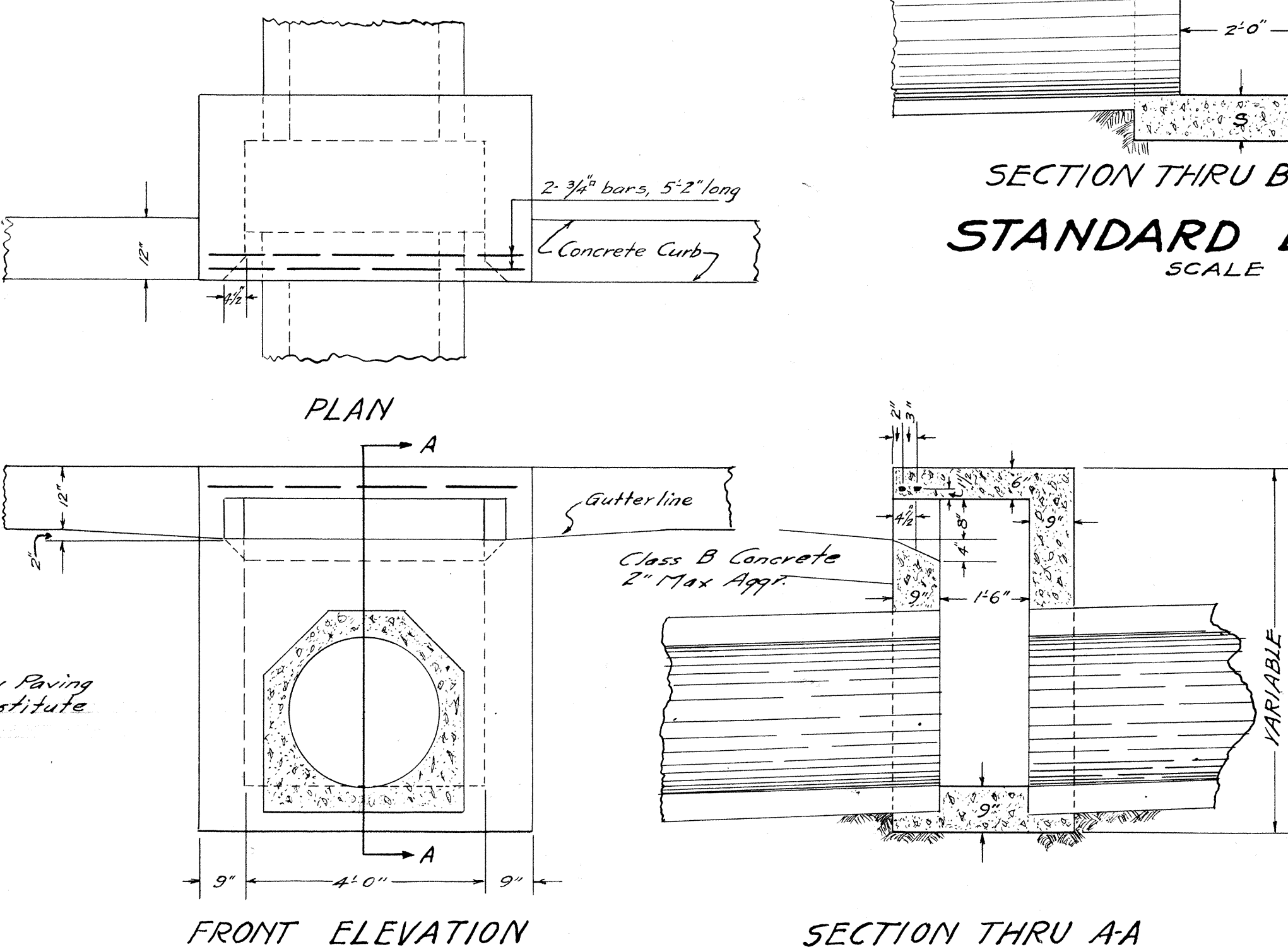
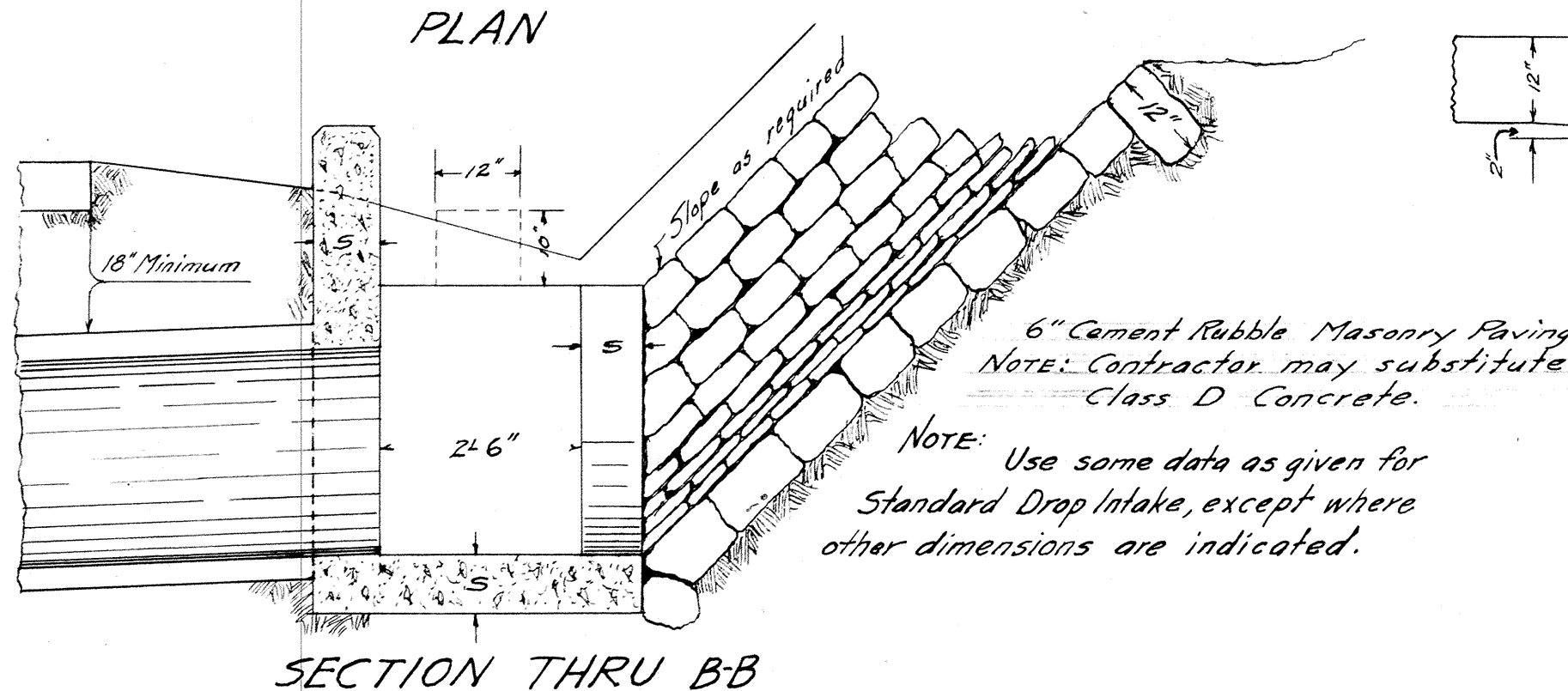
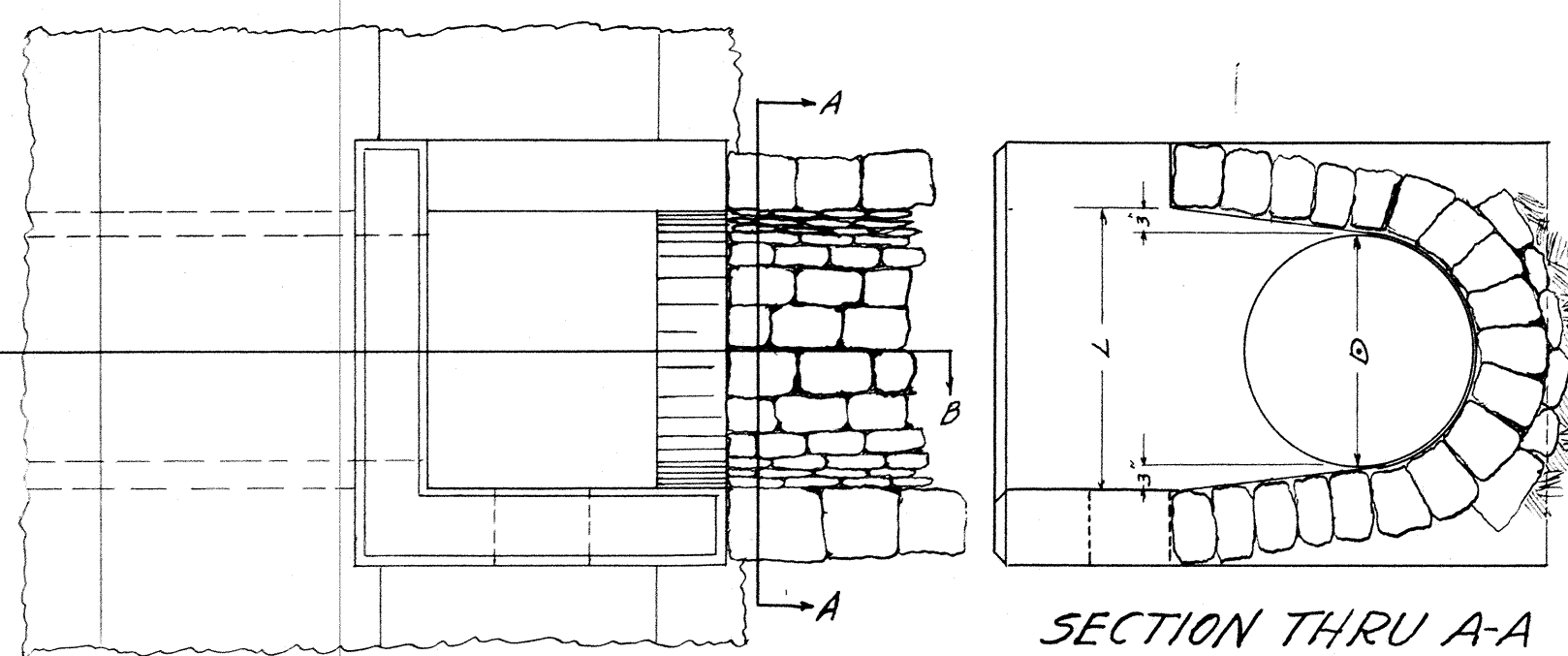
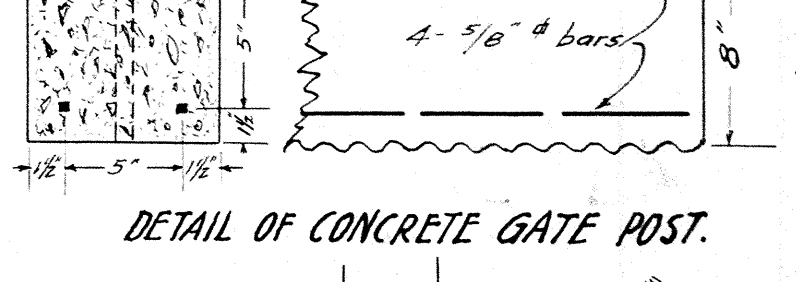
DATA - CIRC. CONC. CULVT.					DATA - PRECAST PIPE				
D	d	W	CY. Per Foot		D	d			
18"	4"	2'-2"	0.11		18"	2'-1/2"			
24"	4 1/2"	2'-9"	0.14		24"	2'-3/4"			
30"	5"	3'-4"	0.19		30"	3"			
36"	5 1/2"	3'-11"	0.26		36"	3'-1/2"			



DATA - STD. DROP INTAKE				
D	L	D+6"	S	
18"	2'-0"	8"		
24"	2'-6"	8"		
30"	3'-0"	9"		
36"	3'-6"	9"		

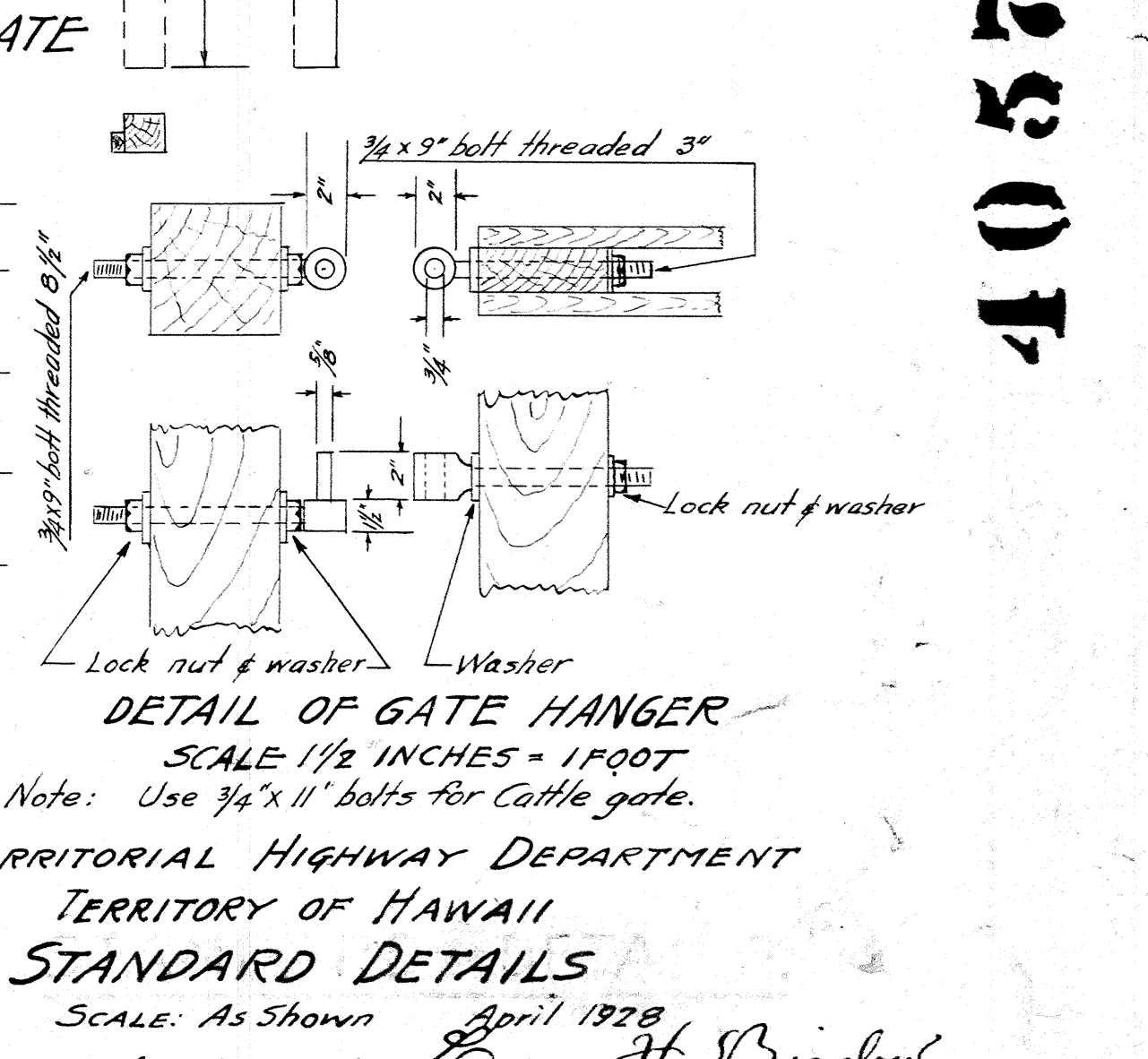
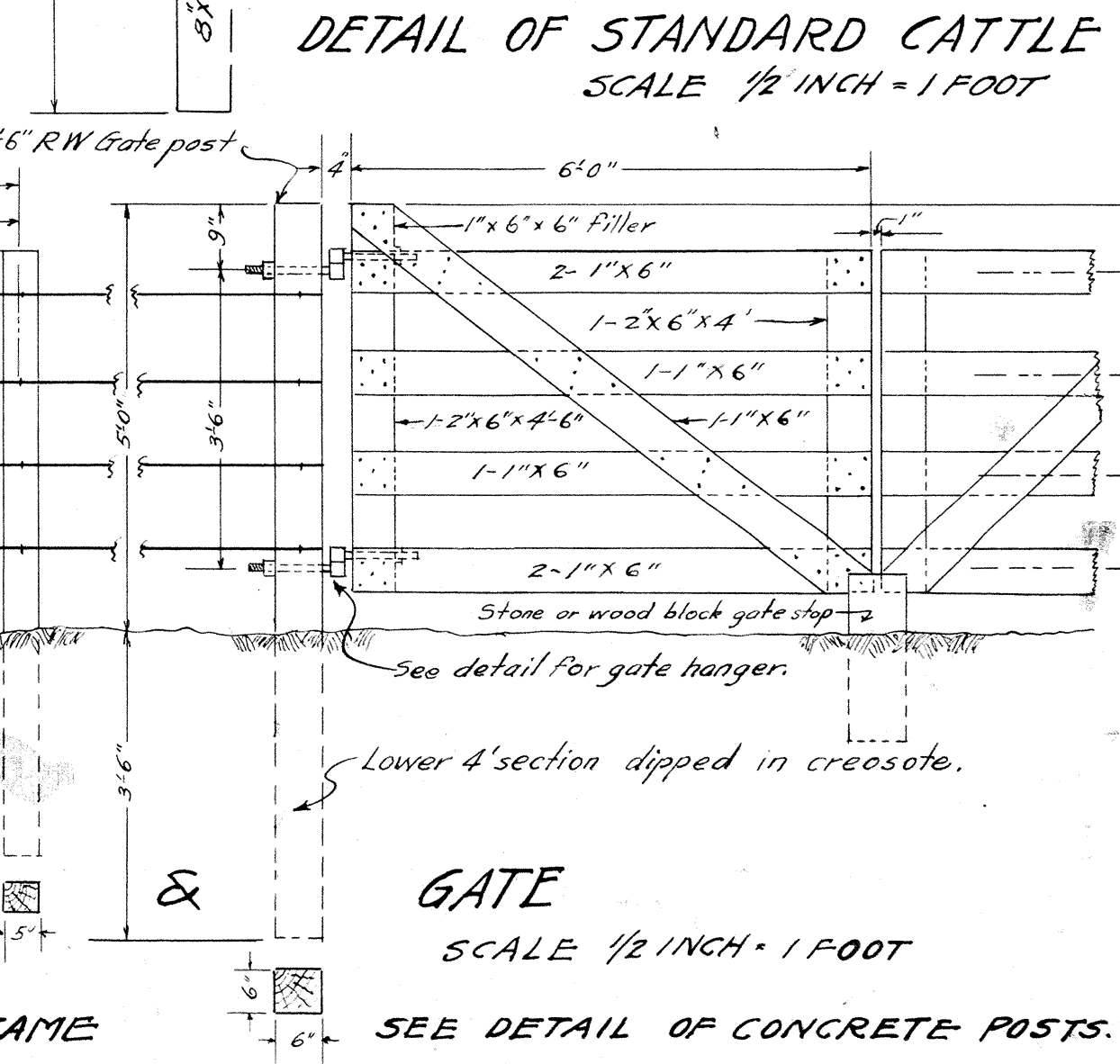
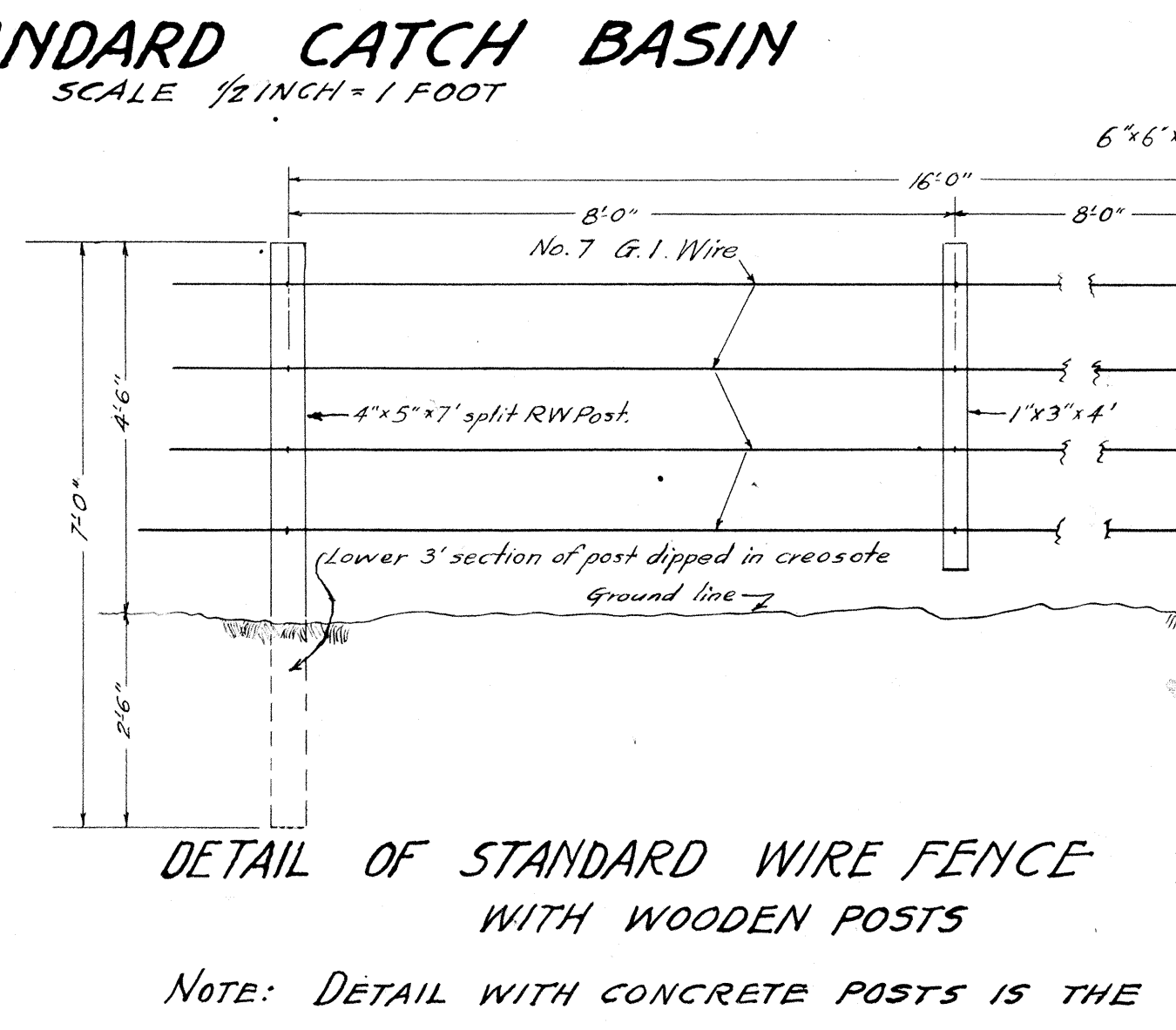
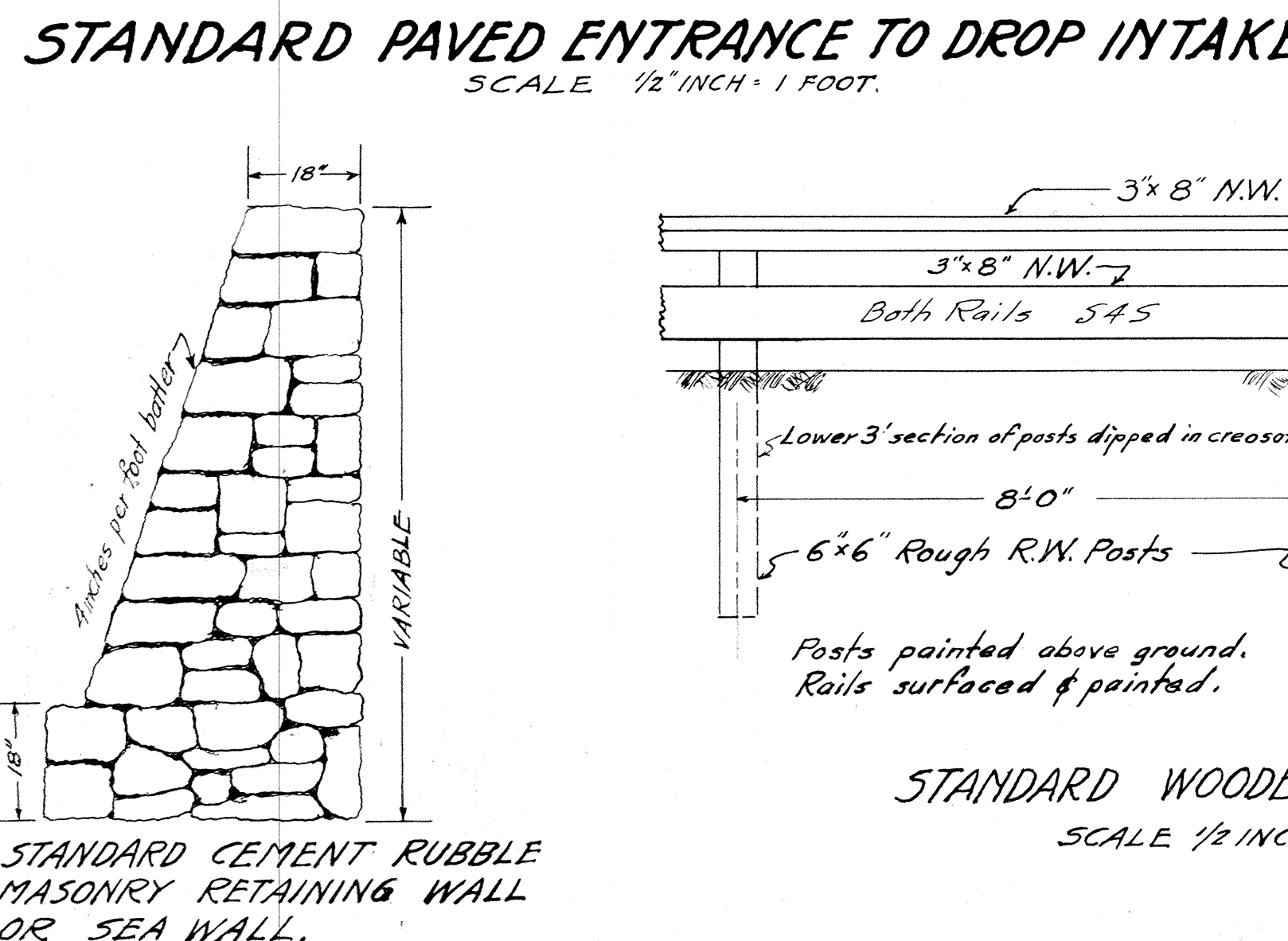
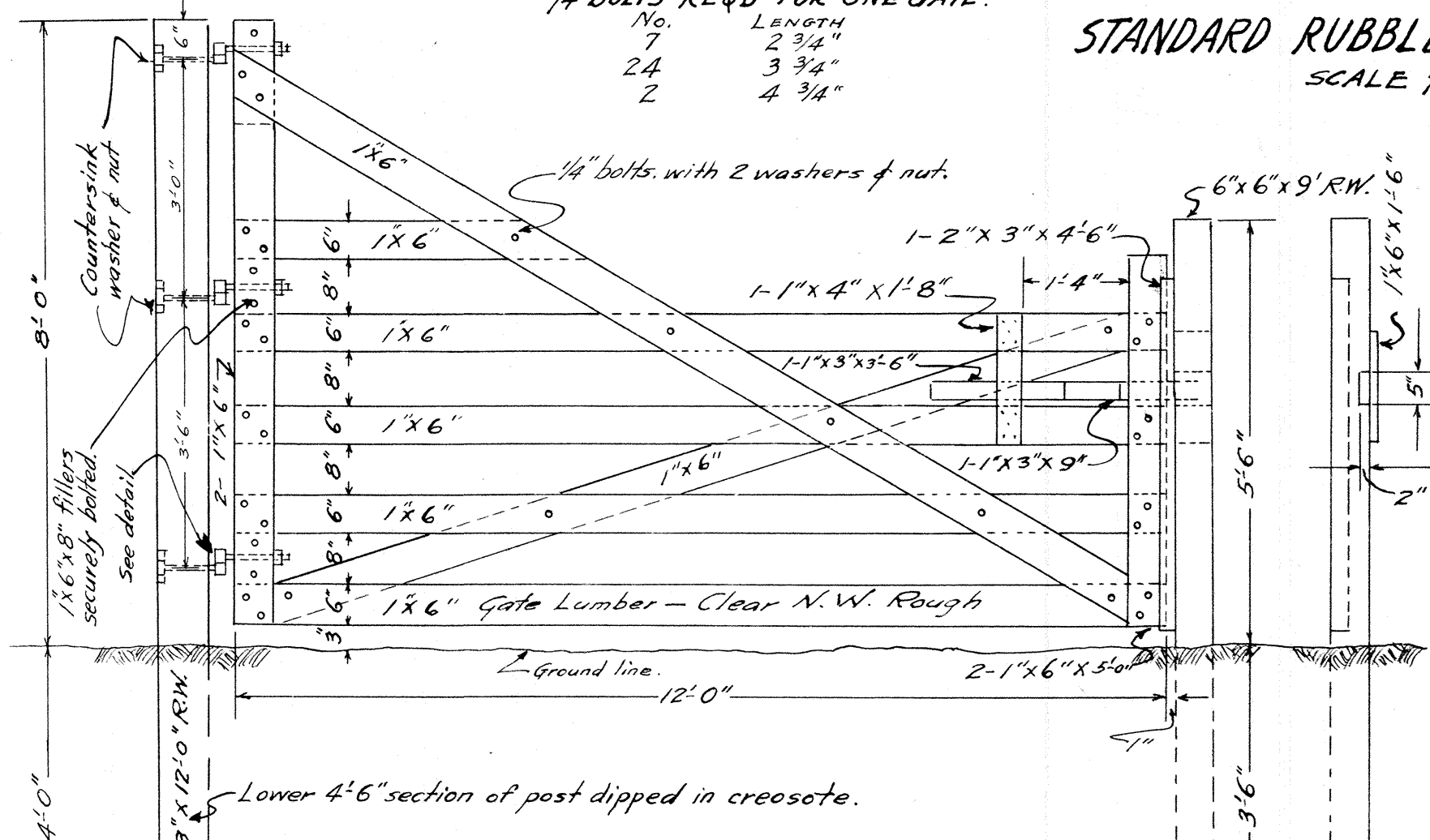


DATA - STD. OUTLET DITCH				
D	W	H	T.W.+H	
18"	24"	2'-0"	4'-0"	
24"	24"	2'-0"	4'-0"	
30"	30"	2'-6"	5'-0"	
36"	36"	3'-0"	6'-0"	



1/4 BOLTS REQ'D FOR ONE GATE-				
No.	LENGTH			
7	2'-3/4"			
24	3'-3/4"			
2	4'-3/4"			

DATA - STD. R.M. HEADWALL				
D	H	B	L	CY. H.W.
18"	3'-6"	1'-9"	7'-6"	1.254
24"	4'-0"	2'-0"	9'-6"	1.93
30"	4'-6"	2'-3"	11'-6"	2.89
36"	5'-0"	2'-6"	13'-6"	3.92



TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
STANDARD DETAILS
SCALE: As Shown
APPROVED
April 1928
L. B. Bigelow
TERRITORIAL HIGHWAY ENGINEER