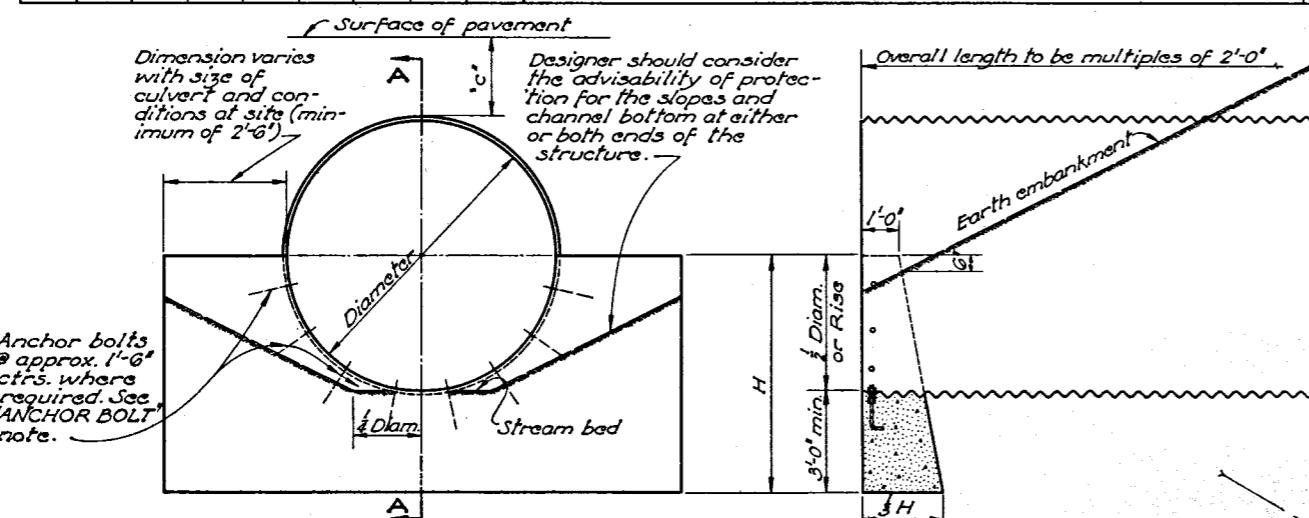


TABLE I PIPE CULVERTS - REQUIRED GAGE OF PLATES

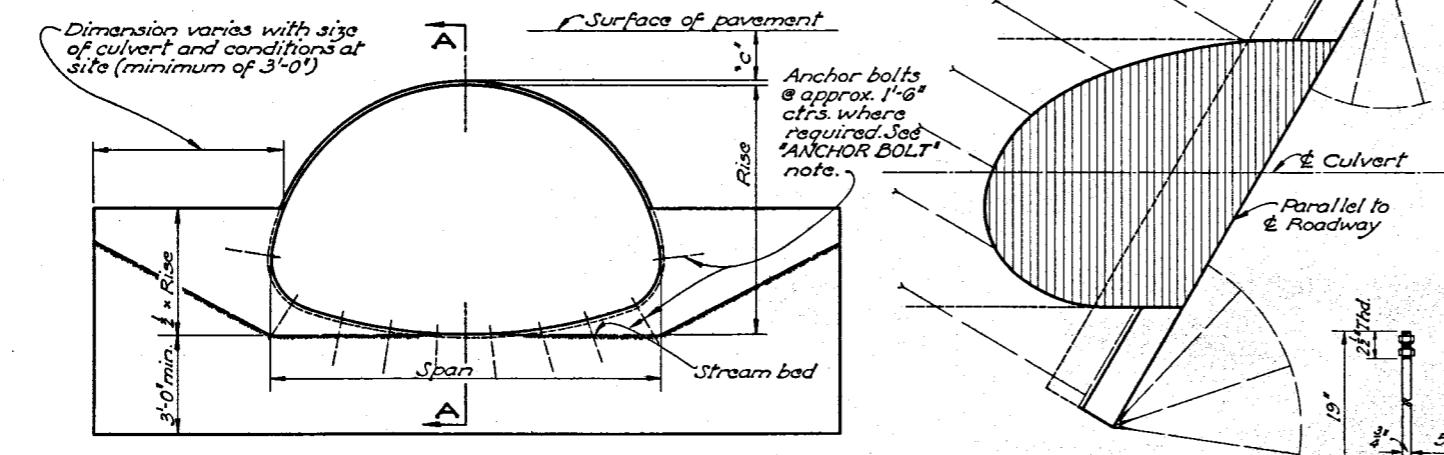
Diam. ft.	Area sq. ft.	Height of Cover in Feet (c)																		Max.'c' in feet No. 1 Gage	
		2	3-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	71-75	76-80	81-85	86-90	
5'0"	20	10-10	10-10	10-10	10-10	10-10	10-10	10-10	10-8	10-8	10-8	8-7	8-7	8-5	7-5	7-5	5-3	5-3	5-3	3-1	127
5'6"	24	10-10	10-10	10-10	10-10	10-10	10-10	10-10	10-8	10-8	8-7	8-7	8-5	7-5	7-5	5-3	5-3	3-1	3-1	3-1	115
6'0"	28	10-10	10-10	10-10	10-10	10-10	10-10	10-8	10-8	8-7	8-7	8-5	7-5	7-5	5-3	5-3	3-1	3-1	1-1	1-1	104
6'6"	33	10-10	10-10	10-10	10-10	10-10	10-10	10-8	10-8	8-7	8-7	8-5	7-5	7-5	5-3	5-3	3-1	3-1	1-1	1-1	96
7'0"	38	10-10	10-10	10-10	10-10	10-10	10-8	10-8	8-7	8-7	8-5	7-5	7-5	5-3	5-3	3-1	3-1	1-1	1-1	88	
7'6"	44	10-10	10-10	10-10	10-8	10-8	8-7	8-7	8-5	7-5	7-5	5-3	5-3	5-3	3-1	3-1	1-1	1-1	1-1	1-1	82
8'0"	50	10-8	10-8	10-8	10-8	10-8	8-7	8-7	8-5	7-5	7-5	5-3	5-3	3-1	3-1	1-1	1-1	1-1	1-1	1-1	76
8'6"	57	10-8	10-8	10-8	10-8	8-7	8-7	7-5	7-5	5-3	5-3	3-1	3-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	70
9'0"	64	10-8	10-8	10-8	10-8	8-7	8-7	7-5	7-5	5-3	5-3	3-1	3-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	66
9'6"	71	8-7	10-8	10-8	8-7	8-7	8-5	7-5	5-3	5-3	3-1	3-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	62
10'0"	79	8-7	8-7	8-7	8-7	7-5	7-5	5-3	5-3	3-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	57
10'6"	87	8-7	8-7	8-7	8-5	7-5	5-3	5-3	3-1	3-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	54
11'0"	95	8-5	8-5	8-5	7-5	7-5	5-3	3-1	3-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	51
11'6"	104	7-5	8-5	8-5	7-5	5-3	5-3	3-1	3-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	48
12'0"	113	7-5	7-5	7-5	7-5	7-5	5-3	3-1	3-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	45
12'6"	123	7-5	7-5	7-5	7-5	5-3	5-3	3-1	3-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	42
13'0"	133	5-3	7-5	7-5	5-3	5-3	3-1	3-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	40
13'6"	143	5-3	5-3	5-3	5-3	5-3	3-1	3-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	38
14'0"	154	5-3	5-3	5-3	5-3	5-3	3-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	35
14'6"	165	5-3	5-3	5-3	5-3	3-1	3-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	33
15'0"	177	3-1	5-3	5-3	3-1	3-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	31

First number indicates gage of plates,  
except bottom row. Second number indicates  
gage of bottom row of plates.

Max.'c' for No. 1 gage may be increased  
50% if pipe is elongated and additional bolts  
provided (see Note).



SECTIONAL PLATE PIPE CULVERT END WALL DETAILS



SECTIONAL PLATE PIPE-ARCH CULVERT END WALL DETAILS

PLAN OF END OF CULVERT ON SKEW  
(Slopes shown for round pipe)

TABLE II PIPE-ARCH CULVERTS - REQUIRED GAGE OF PLATES

Span	Rise	Area	Height of Cover in Feet (c)												Max.'c' in feet No. 1 Gage
			2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	
6'-1"	4'-7"	22	10-10	10-10	10-10	10-10	10-10	10-8	8-7	8-5	5-3	3-1	1-1	1-1	24
7'-3"	5'-3"	31	10-10	10-10	10-10	10-10	10-8	8-7	8-5	5-3	3-1	1-1			22
8'-7"	5'-11"	40	10-8	10-10	10-10	10-8	8-7	8-5	5-3	3-1	1-1				20
9'-6"	6'-5"	49	8-7	10-8	10-8	10-8	8-7	8-5	7-5	5-3	3-1	1-1			18
10'-8"	6'-11"	58	8-7	10-8	10-8	8-7	8-5	7-5	5-3	3-1	1-1				17
11'-7"	7'-5"	67	7-5	8-7	8-7	8-5	7-5	7-5	5-3	3-1	1-1				16
12'-6"	7'-11"	78	7-5	8-7	8-7	8-7	7-5	5-3	3-1						15
13'-5"	8'-5"	89	5-3	8-5	8-5	8-5	7-5	5-3	1-1						14
14'-3"	8'-11"	101	5-3	7-5	7-5	7-5	5-3	3-1	1-1						14
15'-6"	9'-5"	113	3-1	5-3	7-5	5-3	5-3	1-1							13
15'-10"	9'-10"	122	3-1	5-3	7-5	5-3	5-3	1-1							13
16'-7"	10'-1"	131	3-1	5-3	5-3	5-3	3-1	1-1							12

Max.'c' for No. 1 Gage shall in no case be exceeded