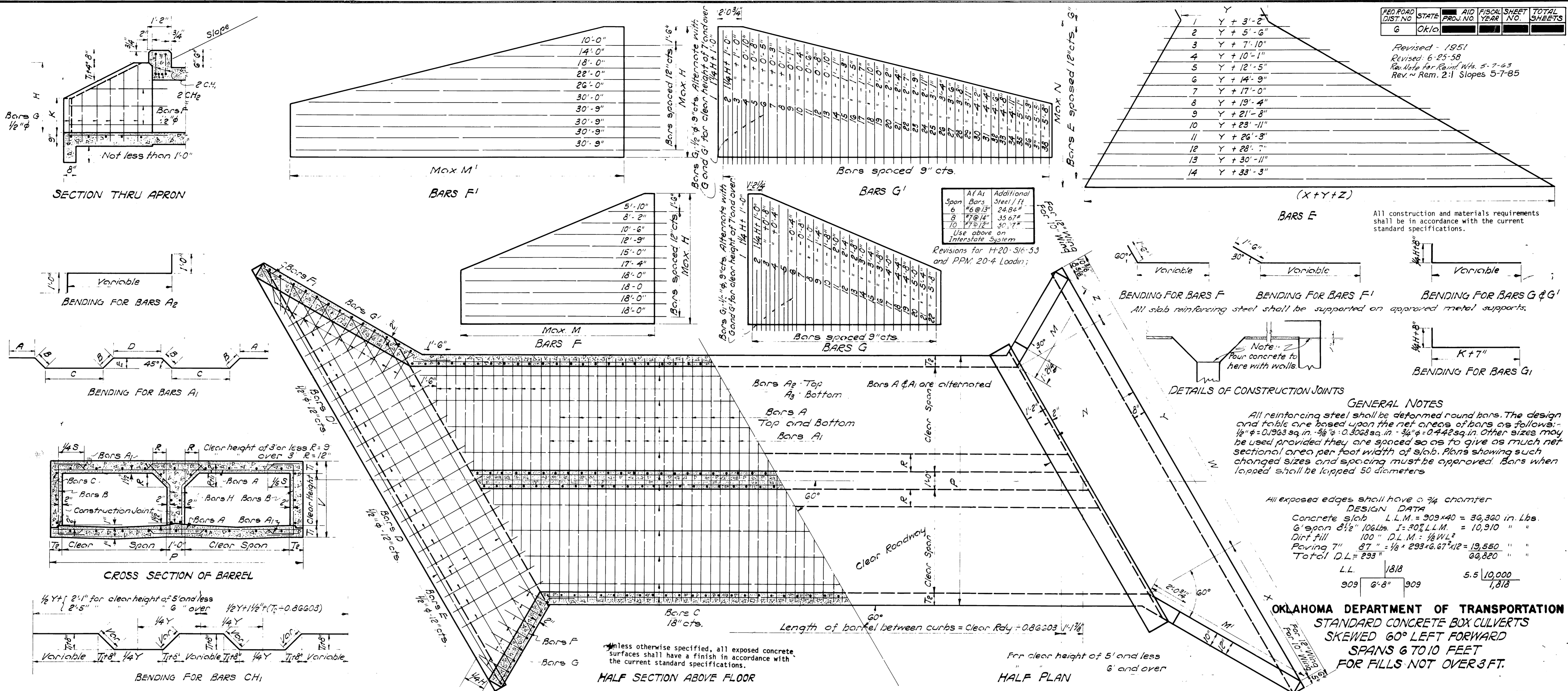


FED. ROAD DIST. NO.	STATE	AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
G	OKLA.				

Revised - 1951
 Revised - 6-25-58
 Rev. Note for Rein. Wks. 5-7-63
 Rev. ~ Rem. 2:1 Slopes 5-7-85



DESIGN NO.	WATERWAY	Clear Span	Clear Height	Area of Opening	BARREL OF CULVERT																		TWO WINGS AND ONE APRON												TWO CURBS						TOTAL QUANTITIES								
					DIMENSIONS					REINFORCING STEEL													DIMENSIONS						REINFORCING STEEL						QUANTITIES		DESIGN NO.												
					T1	T2	V	P	Size and Spacing	A	A1	A2	A3	Bent	C	H	C	H	H	K	M	M1	N	W	X	Y	Z	D	D1	E	F	F1	G	G1	G2	Rein. Bars		Concrete											
1	2'-0"	24	8 1/2"	6"	3.5	14.0	5/8 @ 13"	13-8"	14-3"	12"	6/4 @ 3-7"	2-8"	4/2"	5/8 @ 6-1/2"	24	14.0	18.0	1/2 @ 9"	6-1-1"	1/2 @ 18"	26	1/2 @ 9"	3-7"	89.83	9.003	3-0 1/2"	1-8"	4-5/8"	7-8"	3-10"	24-1/2"	6-7/8"	15-0 1/2"	2-2 1/2"	17	4-3"	4	3-3/8"	4	183	3.27	20-1"	16-1"	153	146	0.617	4.495	4.836	1
2	2'-6"	30	8 1/2"	6"	3-11"	14-0"	"	13-8"	14-3"	12"	6/4 @ 3-7"	2-8"	4/2"	"	24	18.0	18.0	1/2 @ 9"	6-7-1"	"	26	1/2 @ 9"	4-1"	91.64	9.240	3-0 1/2"	1-10"	5-2 1/8"	8-11/2"	4-5 1/2"	26-5 1/2"	7-9 1/2"	15-0 1/2"	2-2 1/2"	17	4-11"	5	4-1/2"	5	270	4.06	20-1"	16-1"	153	146	0.654	4.663	52.13	2
3	3'-0"	36	8 1/2"	6"	4-5"	14-4"	"	14-0"	14-7"	14	6/4 @ 3-7"	2-8"	4/2"	"	24	18.0	18.0	1/2 @ 9"	7-1-1"	"	26	1/2 @ 9"	4-7"	97.48	1.032	4-0 1/2"	2-0"	5-11"	10-3"	5-1 1/2"	27-1 1/2"	8-10 1/2"	15-0 1/2"	2-1 1/2"	17	5-7"	6	5-3/8"	6	393	6.81	20-4"	16-3"	155	148	0.691	5.012	57.93	3
4	4'-0"	48	8 1/2"	8"	6-5"	14-4"	"	14-0"	14-7"	14	6/4 @ 3-7"	2-8"	4/2"	"	24	18.0	18.0	1/2 @ 9"	8-1-1"	"	30	1/2 @ 9"	5-9"	111.85	1.135	5-0 1/2"	2-4"	7-4 1/2"	12-10"	6-5"	30-1 1/2"	11-7 1/2"	15-0 1/2"	3-3 1/2"	17	6-10"	9	6-3/8"	9	510	8.92	20-6"	16-3"	157	150	0.835	6.006	78.05	4
5	5'-0"	60	8 1/2"	10"	8-5"	14-8"	"	14-4"	14-11"	16	6/4 @ 3-7"	2-8"	4/2"	"	24	18.0	18.0	1/2 @ 9"	9-1-1"	"	34	1/2 @ 9"	6-9"	109.06	1.300	6-0 1/2"	2-9"	8-10"	15-3 1/2"	7-7 1/2"	33-9 1/2"	13-2 1/2"	15-0 1/2"	4-5"	17	8-1"	11	7-3/8"	11	641	12.45	20-10"	16-3"	159	152	0.915	6.553	89.64	5
6	6'-0"	72	8 1/2"	12"	10-5"	14-8"	"	14-4"	14-11"	16	6/4 @ 3-7"	2-8"	4/2"	"	24	18.0	18.0	1/2 @ 9"	10-1-1"	"	38	1/2 @ 9"	7-9"	115.40	1.399	7-0 1/2"	3-1"	10-4 1/2"	17-11"	8-11 1/2"	37-0 1/2"	15-0 1/2"	15-0 1/2"	5-2 1/2"	17	9-5"	13	8-1/2"	13	778	16.41	20-12"	16-3"	159	152	0.915	6.553	89.64	6
7	2'-6"	40	10"	8"	4-2"	18-4"	3/4 @ 14"	18-0"	18-10"	17 1/2	8/16 @ 3-7"	3-2"	6"	3/4 @ 7"	30	18.0	18.0	1/2 @ 9"	9-4-1"	"	32	1/2 @ 9"	4-5"	139.93	1.368	3-8"	1-10"	5-4"	9-3"	4-7 1/2"	31-5 1/2"	8-0 1/2"	19-7 1/2"	2-8"	22	5-0"	6	4-1/2"	6	278	4.81	25-1"	20-11"	200	186	0.776	7.036	73.06	7
8	3'-0"	48	10"	8"	4-4"	18-4"	"	18-0"	18-10"	17 1/2	8/16 @ 3-7"	3-2"	6"	3/4 @ 7"	30	18.0	18.0	1/2 @ 9"	9-4-1"	"	32	1/2 @ 9"	4-11"	141.74	1.411	4-2"	2-5"	6-1"	10-6 1/2"	5-3 1/2"	32-1 1/2"	11-4 1/2"	15-0 1/2"	3-0 1/2"	22	5-8"	7	5-1/2"	7	313	5.78	25-1"	20-11"	200	186	0.819	7.187	76.96	8
9	4'-0"	64	10"	8"	4-8"	18-4"	"	18-0"	18-10"	17 1/2	8/16 @ 3-7"	3-2"	6"	3/4 @ 7"	30	18.0	18.0	1/2 @ 9"	9-4-1"	"	32	1/2 @ 9"	6-0"	148.24	1.514	5-2"	2-5"	7-6 1/2"	13-11"	6-3 1/2"	35-1 1/2"	11-4 1/2"	15-0 1/2"	3-3 1/2"	22	7-0"	9	6-3/8"	9	447	7.90	25-1"	20-11"	200	186	0.887	7.746	85.87	9
10	5'-0"	80	10"	10"	6-8"	18-8"	"	18-4"	18-2"	18 1/2	8/16 @ 3-7"	3-2"	6"	3/4 @ 7"	30	18.0	18.0	1/2 @ 9"	10-4-1"	"	40	1/2 @ 9"	7-0"	156.92	1.683	6-2"	2-9"	9-0"	15-7"	7-9 1/2"	38-9 1/2"	13-6"	15-0 1/2"	4-6"	22	8-3"	11	7-3/8"	11	571	10.18	25-4"	21-2"	282	188	0.957	8.554	98.00	10
11	6'-0"	96	10"	10"	7-8"	18-8"	"	18-4"	18-2"	18 1/2	8/16 @ 3-7"	3-2"	6"	3/4 @ 7"	30	18.0	18.0	1/2 @ 9"	11-4-1"	"	40	1/2 @ 9"	8-0"	159.95	1.781	7-2"	3-2"	10-5 1/2"	18-2"	9-1"	41-1 1/2"	15-8 1/2"	15-0 1/2"	5-2 1/2"	22	9-2"	14	8-1/2"	14	711	13.94	25-8"	21-5"	282	190	1.036	8.798	100.00	11
12	7'-0"	112	10"	10"	8-3"	18-8"	"	18-4"	18-2"	18 1/2	8/16 @ 3-7"	3-2"	6"	3/4 @ 7"	30	18.0	18.0	1/2 @ 9"	12-4-1"	"	44	1/2 @ 9"	9-0"	166.29	1.880	8-0"	3-2"	10-5 1/2"	18-2"	9-1"	41-1 1/2"	15-8 1/2"	15-0 1/2"	6-0"	22	10-10"	16	9-1/2"	16	844	16.17	25-8"	21-5"	282	190	1.111	9.340	121.02	12
13	8'-0"	128	10"	11"	9-8"	18-10"	"	18-4"	18-4"	19 1/2	8/16 @ 3-7"	3-2"	6"	3/4 @ 7"	30	18.0	18.0	1/2 @ 9"	13-4-1"	"	48	1/2 @ 9"	10-0"	173.51	2.039	9-2"	3-10"	13-5 1/2"	23-3"	11-7 1/2"	47-10"	20-9 1/2"	15-0 1/2"	6-8 1/2"	22	12-1"	18	10-1/2"	18	1000	18.17	25-8"	21-5"	282	190	1.181	10.591	134.86	13
14	2'-6"	50	11"	8"	4-4"	22-4"	3/4 @ 12"	22-0"	23-0"	17-10"	6-0 @ 3-10"	7"	3/4 @ 6"	44	18.0	18.0	1/2 @ 9"	9-0"	1/2 @ 18"	38	1/2 @ 9"	4-7"	187.26	1.754	3-9"	1-11"	5-6"	9-6 1/2"	4-9 1/2"	36-4 1/2"	8-3 1/2"	24-3"	2-9"	22	5-2"	6	4-1/2"	6	318	5.63	29-10"	25-6"	336	224	0.899	9.252	92.26	14	
15	3'-0"	60	11"	8"	4-10"	22-4"	"	22-0"	23-0"	17-10"	6-0 @ 3-10"	7"	3/4 @ 6"	44	18.0	18.0	1/2 @ 9"	9-6"	"	38	1/2 @ 9"	5-1"	189.08	1.797	4-3"	2-1"	6-3"	10-10"	5-5"	37-0 1/2"	9-4 1/2"	15-0 1/2"	3-1 1/2"	22	5-10"	8	5-1/2"	8	383	6.69	29-10"	25-6"	336	224	0.936	9.463	96.34	15	
16	4'-0"	80	11"	8"	5-10"	22-4"	"	22-0"	23-0"	17-10"	6-0 @ 3-10"	7"	3/4 @ 6"	44	18.0	18.0	1/2 @ 9"	10-6"	"	42	1/2 @ 9"	6-3"	195.78	1.900	5-3"	2-5"	7-8 1/2"	13-10"	6-7 1/2"	40-3 1/2"	11-6 1/2"	15-0 1/2"	3-10"	22	7-1"	10	6-3/8"	10	497	8.91	29-10"	25-6"	336	224	1.006	9.983	105.44	16	
17	5'-0"	100	11"	10"	6-10"	22-8"	"	22-4"	23-4"	2-1"	10-0 @ 3-10"	7"	3/4 @ 6"	44	18.0	18.0	1/2 @ 9"	11-6"	"	42	1/2 @ 9"	7-3"	201.38	2.070	6-3"	2-10"	8-10"	15-10"	7-11 1/2"	43-8 1/2"	13-9"	15-0 1/2"	4-7"	22	8-4"	12	8-1/2"	12	629	11.48	30-0"	25-8"	339	228	1.079	10.502	118.21	17	
18	6'-0"	120	11"	10"	7-10"	22-8"	"	22-4"	23-4"	2-1"	10-0 @ 3-10"	7"	3/4 @ 6"	44	18.0	18.0	1/2 @ 9"	12-6"	"	46	1/2 @ 9"	8-3"	207.78	2.169	7-3"	3-2"	10-7"	18-4"	9-2"	46-9 1/2"	15-10 1/2"	15-0 1/2"	5-3 1/2"	22	9-7"	14	9-1/2"	14	779	15.32	30-4"	26-0"	342	228	1.155	11.090	130.40	18	
19	7'-0"	140	11"	10"	8-10"	22-8"	"	22-4"	23-4"	2-1"	10-0 @ 3-10"	7"	3/4 @ 6"	44	18.0	18.0	1/2 @ 9"	13-6"	"	50	1/2 @ 9"	9-3"	214.07	2.263	8-3"	3-6"	12-0 1/2"	20-11"	10-5 1/2"	49-5 1/2"	18-1 1/2"	15-0 1/2"	6-0 1/2"	22	10-11"	16	10-1/2"	16	947	17.15	30-4"	26-0"	342	228	1.229	12.165	141.69	19	
20	8'-0"	160	11"	11"	9-10"	22-10"	"	22-6"	23-6"	2-2"	10-0 @ 3-10"	7"	3/4 @ 6"	44	18.0	18.0	1/2 @ 9"	14-6"	"	50	1/2 @ 9"	10-3"	218.71	2.428	9-3"	3-11"	13-6 1/2"	23-6"	11-9"	52-9"	20-4 1/2"	15-0 1/2"	6-9 1/2"	22	12-2"	18	11-1/2"	18	1130	22.46	30-6"	26-1"	342	229	1.302	12.802	156.35	20	
21	9'-0"	180	11"	12"	10-10"	23-0"	"	22-8"	23-8"	2-3"	10-0 @ 3-10"	7"	3/4 @ 6"	44	18.0	18.0	1/2 @ 9"	15-6"	"	54	1/2 @ 9"	11-3"	226.07	2.599	10-3"	4-3"	15-0 1/2"	26-0"	13-0"	55-7 1/2"	22-6 1/2"	15-0 1/2"	7-6 1/2"	22	13-5"	20	12-1/2"	20	1333	26.35	30-7"	26-2"	342	230	1.374	13.617	171.79	21	
22	10'-0"	200	11"	12"	11-10"	23-0"	"	22-8"	23-8"	2-3"	10-0 @ 3-10"	7"	3/4 @ 6"	44	18.0	18.0	1/2 @ 9"	16-6"	"	58	1/2 @ 9"	12-3"	232.42	2.710	11-3"	4-7"	16-6"	28-7"	14-3 1/2"	56-7 1/2"	24-9"	15-0 1/2"	8-3"	22	14-9"	22	14-1/2"	22	1581	30.69	30-7"	26-2"	342	230	1.447	14.416	185.49	22	

Designed by H. X. V. and D. T. M.
 Drawn by G. M. L. 35
 Chkd. W. C. Z. 235