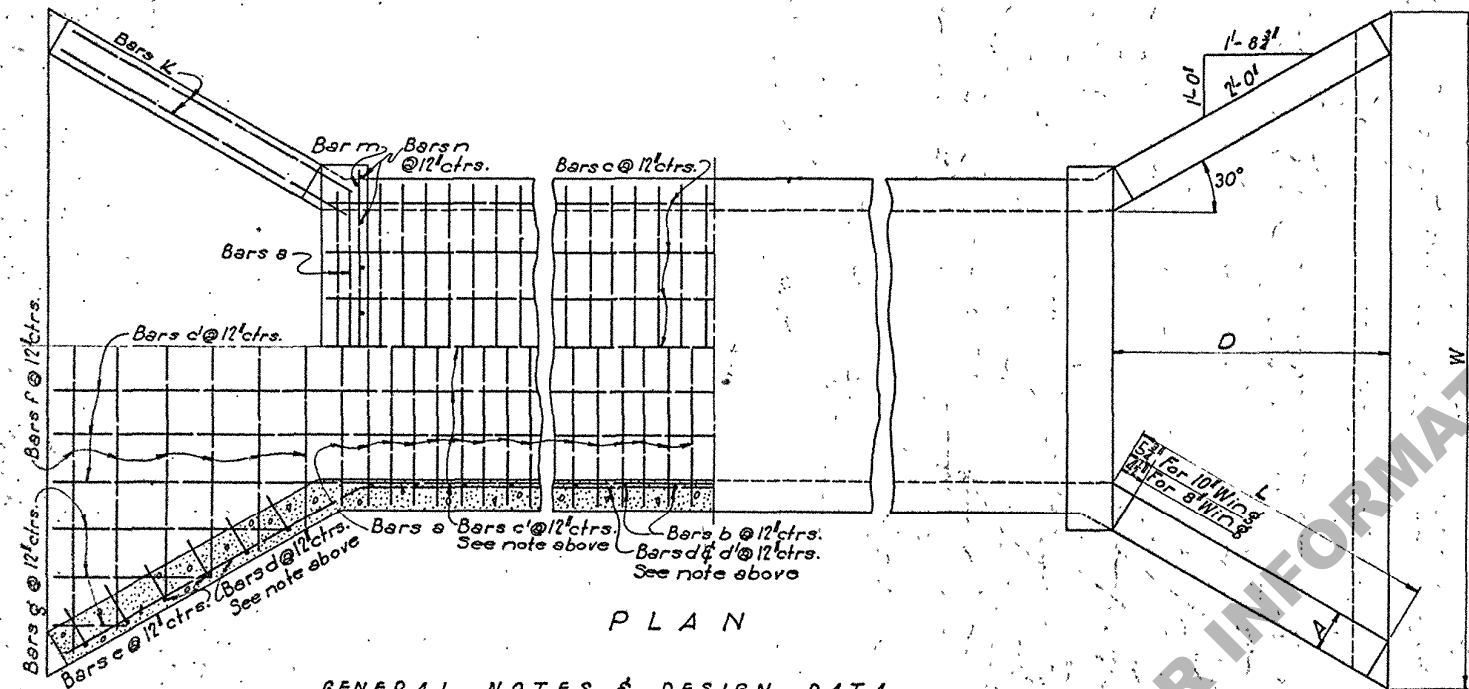
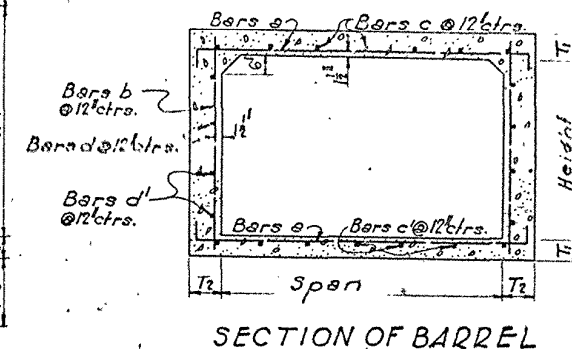
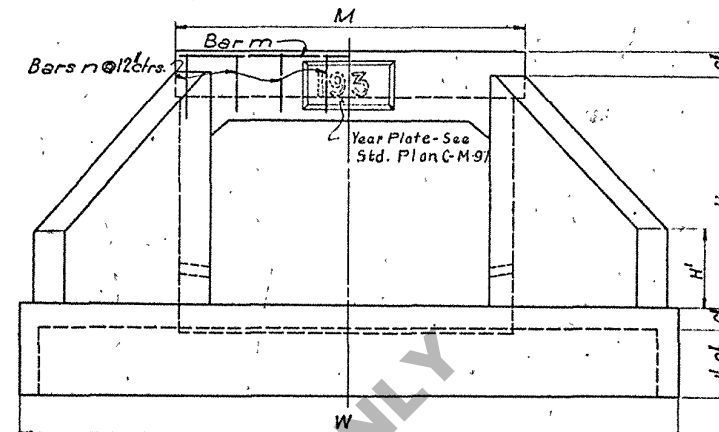
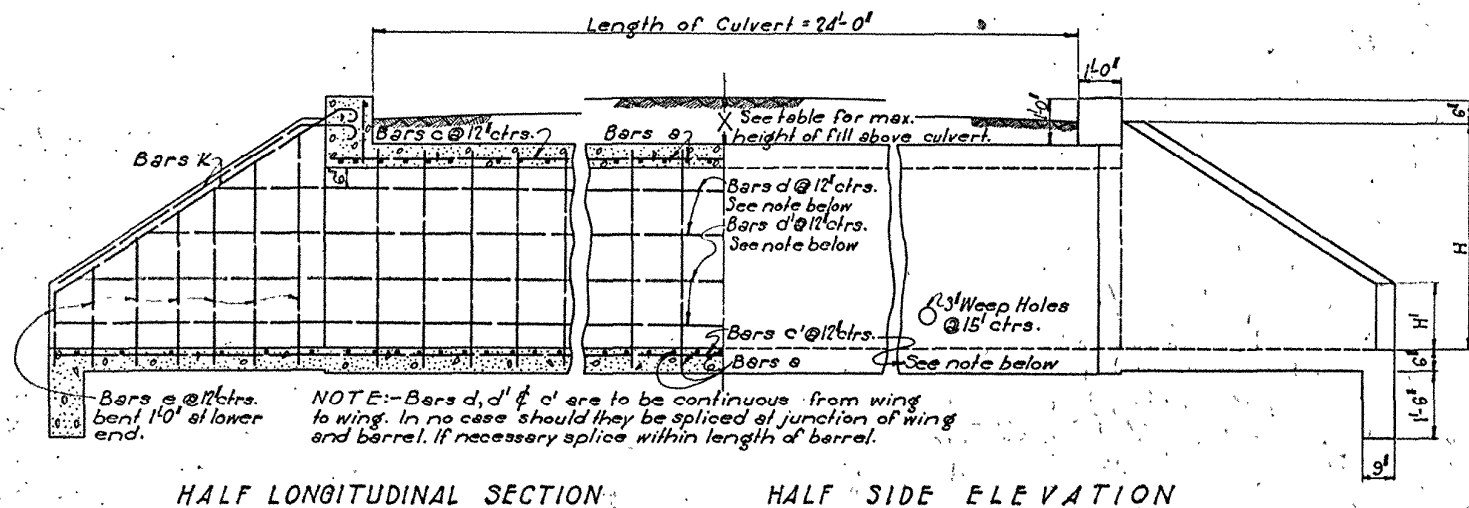




GENERAL NOTES & DESIGN DATA

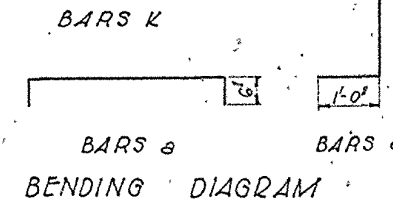
Construction Specs: Latest Approved La. Hwy. Dept. Std. Specs.
 Concrete: All class A, 1:6 Mix.
 Steel: Deformed bars.
 All exposed corners to be chamfered 3/4".
 All exposed surfaces to be given a smooth finish.
 Reinforcing bars should be wired at intersections and properly secured against displacement during depositing of concrete.
 Design Specs: La. Highway Commission Feb. 1929.
 Concentrated load - 15 Ton typical truck with 30% impact allowance.
 Entire weight of fill above culvert assumed as acting on culvert.
 Horizontal component of earth pressure taken as 30 lbs. per sq. ft.
 Steel in tension - 16000 lbs. Concrete in compression 650 lbs.
 Fill above slab of culvert is not to exceed the maximum height 'X' as given in table.
 All dimensions relating to bars are to centers of bars.
 Bars at splices are to be lapped 2'-0" and separated 2'.

Place about One (1) Cu. Ft. of large size gravel or loose rock behind and around each Weep Hole.

OPENING		BARREL REINFORCEMENT										WING WALL & FLOOR REINFORCEMENT										ALL 1 ST BARS													
CLEAR SPAN	CLEAR HEIGHT	BARS		BARS		BARS		BARS		BARS		BARS		BARS		BARS		BARS		BARS		BARS		BARS		BARS		BARS							
FT.	FT. IN.	N ^o	SIZE	LENGTH	N ^o	LENGTH	N ^o	LENGTH	N ^o	LENGTH	N ^o	LENGTH	N ^o	LENGTH	N ^o	LENGTH	N ^o	LENGTH	N ^o	LENGTH	N ^o	LENGTH	N ^o	LENGTH	N ^o	LENGTH	N ^o	LENGTH	N ^o	LENGTH					
				FT. IN.		FT. IN.		FT. IN.		FT. IN.		FT. IN.		FT. IN.		FT. IN.		FT. IN.		FT. IN.		FT. IN.		FT. IN.		FT. IN.		FT. IN.		FT. IN.		FT. IN.			
6	2-0	124	1/4	8-1	5	50	3-1	7	25-9	7	32-11	31-10	—	—	2	2-4	7	4-1	4	8-0	1-2	11-6	2	—	—	3-0	4	8	5-9	2	7-3	16	1-5	2	33-6
	2-6	124	1/4	8-1	5	50	3-7	7	25-9	7	33-11	31-10	—	—	2	2-6	7	4-10	4	8-0	1-2	11-6	2	1-9	1-9	3-6	4	8	6-6	2	7-3	16	1-5	2	34-10
	3-0	124	1/4	8-1	5	50	4-1	7	25-9	7	34-11	31-10	3-6	35-4	2	2-8	7	5-0	4	8-0	1-2	12-8	2	2-3	1-9	4-0	4	8	7-2	2	7-3	16	1-5	2	38-0
	4-0	124	1/4	8-1	5	50	5-1	7	25-9	7	37-1	31-10	3-6	35-4	2	3-0	7	5-11	4	8-0	1-2	13-10	2	1-8	1-9	5-2	4	8	8-6	2	7-8	16	1-5	2	38-2
	5-0	124	1/4	8-1	5	50	6-1	7	25-9	7	39-7	31-10	3-6	38-10	2	3-2	7	7-3	4	8-0	1-2	15-0	2	3-0	1-9	6-6	4	8	10-3	2	7-8	16	1-5	2	41-0
8	2-0	104	3/8	10-1	6	50	3-4	9	25-9	9	33-3	32-3	—	—	2	2-4	7	4-1	4	10-0	1-2	13-6	2	—	—	3-3	4	8	6-0	2	9-3	20	1-6	2	34-2
	2-6	104	3/8	10-1	6	50	3-10	9	25-9	9	34-3	32-3	—	—	2	2-6	7	4-10	4	10-0	1-2	13-6	2	2-0	1-9	3-9	4	8	6-9	2	9-3	20	1-6	2	35-4
	3-0	104	3/8	10-1	6	50	4-4	9	25-9	9	35-3	32-3	3-6	35-9	2	2-8	7	5-0	4	10-0	1-2	14-8	2	2-6	1-9	4-3	4	8	7-3	2	9-3	20	1-6	2	36-6
	4-0	104	3/8	10-1	6	50	5-4	9	25-9	9	37-5	32-3	3-6	35-9	2	3-0	7	6-6	4	10-0	1-2	15-10	2	1-10	1-9	5-4	4	8	8-10	2	9-8	20	1-6	2	38-8
	5-0	104	3/8	10-1	6	50	6-4	9	25-9	9	39-11	32-3	3-6	39-3	2	3-2	7	7-3	4	10-0	1-2	17-0	2	3-0	1-9	6-6	4	8	10-6	2	9-8	20	1-6	2	41-6
10	2-0	89	3/8	12-1	7	50	3-7	11	25-9	11	33-9	32-8	—	—	2	2-4	7	4-8	4	12-0	1-2	15-6	2	1-9	1-9	3-6	4	8	6-3	2	11-3	24	1-8	2	32-4
	2-6	89	3/8	12-1	7	50	4-1	11	25-9	11	34-9	32-8	—	—	2	2-6	7	4-10	4	12-0	1-2	15-6	2	2-3	1-9	4-0	4	8	7-0	2	11-3	24	1-8	2	35-6
	3-0	89	3/8	12-1	7	50	4-7	11	25-9	11	35-9	32-8	3-6	36-2	2	2-8	7	5-7	4	12-0	1-2	16-8	2	2-9	1-9	4-6	4	8	7-8	2	11-3	24	1-8	2	36-8
	4-0	89	3/8	12-5	7	50	5-7	11	25-9	11	37-9	32-8	3-6	36-2	2	3-0	7	6-6	4	12-0	1-2	17-10	2	2-0	1-9	5-6	4	8	9-0	2	11-8	24	1-8	2	39-0
	5-0	89	3/8	12-5	7	50	6-7	11	25-9	11	40-3	32-8	3-6	39-8	2	3-2	7	7-3	4	12-0	1-2	19-0	2	1-6	1-9	6-9	4	8	10-8	2	11-8	24	1-8	2	42-0
12	2-0	104	3/8	14-5	6	50	4-0	13	25-9	13	34-3	33-6	—	—	2	2-4	7	4-8	4	14-0	1-2	17-6	2	2-0	1-9	3-9	4	8	6-8	2	13-3	28	1-10	2	35-0
	2-6	104	3/8	14-5	6	50	4-6	13	25-9	13	35-3	33-6	—	—	2	2-6	7	4-10	4	14-0	1-2	18-8	2	2-6	1-9	4-3	4	8	7-3	2	13-3	28	1-10	2	36-2
	3-0	104	3/8	14-5	6	50	5-0	13	25-9	13	36-3	33-6	3-6	37-0	2	2-8	7	5-7	4	14-0	1-2	18-8	2	3-0	1-9	4-9	4	8	8-0	2	13-3	28	1-10	2	37-4
	4-0	104	3/8	14-5	6	50	6-0	13	25-9	13	38-5	33-6	3-6	37-0	2	3-0	7	6-6	4	14-0	1-2	19-10	2	2-4	1-9	5-10	4	8	9-6	2	13-8	28	1-10	2	39-8
	5-0	104	3/8	14-5	6	50	7-0	13	25-9	13	40-11	33-6	3-6	40-6	2	3-2	7	7-10	4	14-0	1-2	22-2	2	1-9	1-9	7-0	4	8	11-0	2	13-8	28	1-10	2	42-6

* NOTE: To obtain lengths of intermediate bars use variation as increment between short and long bars.

DIMENSIONS & QUANTITIES FOR 24'-0" CULVERT														TWO HEADWALLS				
OPENING		BARREL		WINGS AND				FLOOR		PER LIFT		TOTAL		STEEL CONC.				
CLEAR SPAN	HEIGHT	AREA	T ₁	T ₂	M	H	H'	L	A	W	D	X	BARREL QUANTITIES	STEEL CONC.	STEEL CONC.			
FT.	FT. IN.	SQ. FT.	IN.	IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	IN.	FT. IN.	FT. IN.	FT.	POUNDS CUYDS	POUNDS CUYDS	POUNDS CUYDS			
6	2-0	12.0	8	8	7-6	3-2	1-0	4-2	8	11-8	3-7	4	53.52	4102	1634	15.79	349	450
	2-6	15.0	8	8	7-6	3-8	1-2	4-3	8	12-3	4-1	4	54.37	4949	1695	16.97	390	509
	3-0	18.0	8	8	7-6	4-2	1-4	5-4	8	12-10	4-7	4	56.32	5195	1816	18.10	450	573
	4-0	24.0	8	8	7-11	5-2	1-8	6-7	10	14-6	5-8	4	60.32	5689	2013	21.58	565	793
	5-0	30.0	8	8	7-11	6-2	1-10	8-0	10	15-11	6-11	4	63.72	6183	2248	24.84	719	1000
8	2-0	16.0	9	8	9-6	3-3	1-0	4-5	8	13-11	3-9	4	84.94	6554	2498	21.37	459	564
	2-6	20.0	9	8	9-6	3-9	1-2	5-0	8	14-6	4-3	4	85.79	6800	2561	22.60	502	628
	3-0	24.0	9	8	9-6	4-3	1-4	5-7	8	15-1	4-9	4	88.34	7047	2687	23.89	567	697
	4-0	32.0	9	8	9-11	5-3	1-8	6-10	10	16-9	5-10	4	91.74	7541	2915	27.42	714	932
	5-0	40.0	9	8	9-11	6-3	1-10	8-3	10	18-2	7-1	4	95.14	8035	3134	30.81	851	1152
10	2-0	20.0	11	8	11-6	3-5	1-0	4-7	8	16-1	4-0	4	112.87	8776	3287	27.95	577	689
	2-6	25.0	11	8	11-6	3-11	1-2	5-2	8	16-8	4-6	4	113.72	9023	3331	29.24	602	758
	3-0	30.0	11	8	11-6	4-5	1-4	5-9	8	17-3	5-0	4	116.27	9710	3483	30.57	691	832
	4-0	40.0	11	10	11-11	5-5	1-8	7-0	10	18-11	6-0	4	122.01	10484	3758	36.02	830	1086
	5-0	50.0	11	10	11-11	6-5	1-10	8-5	10	20-4	7-3	4	125.41	11101	3992	39.84	983	1320
12	2-0	24.0	13	10	13-8	3-7	1-0	4-11	8	18-5	4-3	4	150.17	12716	4312	39.12	708	861
	2-6	30.0	13	10	13-8	4-1	1-2	5-6	8	19-0	4-9	4	151.02	13025	4388	40.63	763	937
	3-0	36.0	13	10	13-8	4-7	1-4	6-1	8	19-7	5-3	4	153.57	13333	4515	42.18	829	1018
	4-0	48.0	13	10	13-11	5-7	1-8	7-4	10	21-3	6-4	4	156.97	13951	4747	46.31	975	1283
	5-0	60.0	13	10	13-11	6-7	1-10	8-9	10	22-8	7-7	4	160.37	14568	5047	50.28	1196	1532



CONCRETE BOX CULVERTS
 FLARING WING WALLS
 6" TO 12" SPANS
 2' TO 5' HEIGHTS

LOUISIANA HIGHWAY COMMISSION

BATON ROUGE, LA. SCALE 1" = 1'-0" AUG. 6, 1931

Revision and replacement of standard plan B-2-5C

Revised 5-10-49 Rev. Dirn "M" C.I./a
 Revised 1-46 Gen. Notes & Std. 16

(Old B-2-5C) C. C. C. I. E.