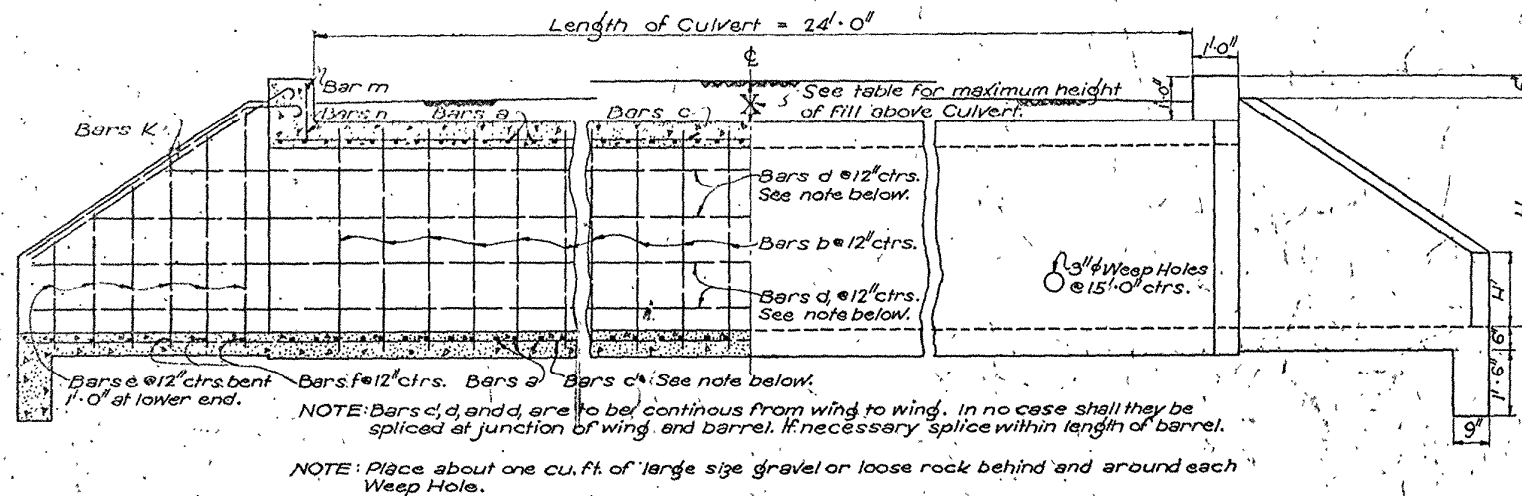
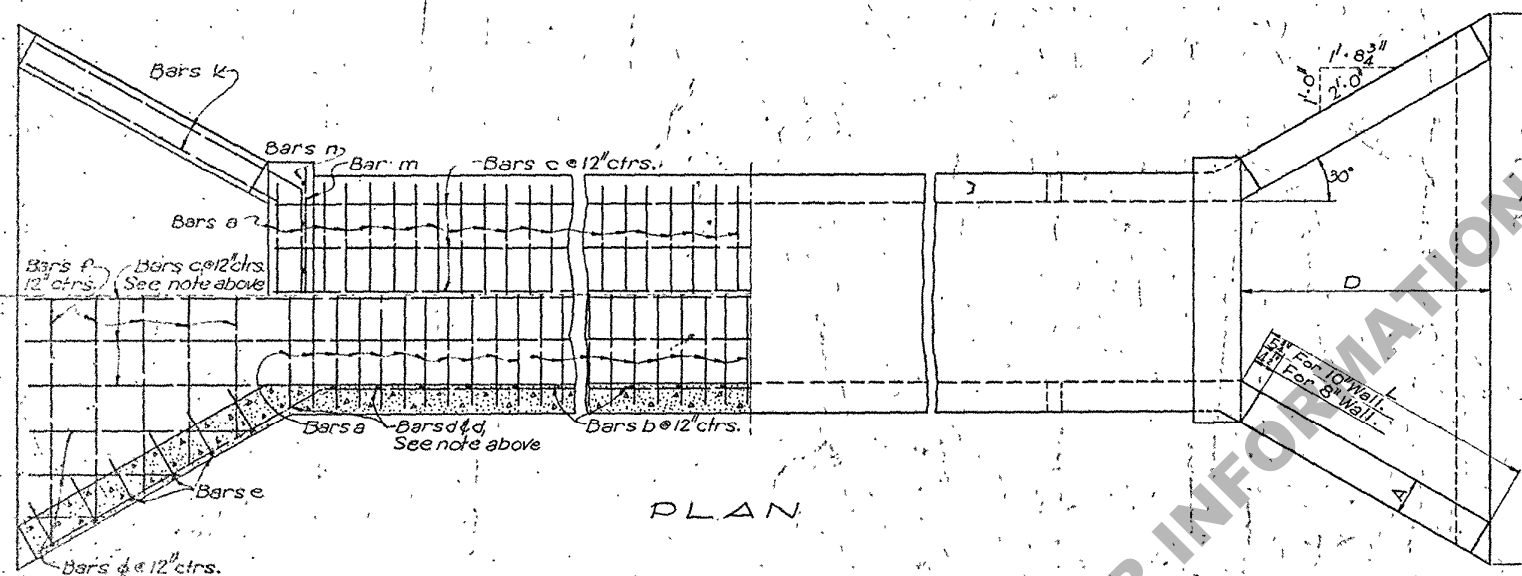




HALF LONGITUDINAL SECTION

HALF SIDE ELEVATION

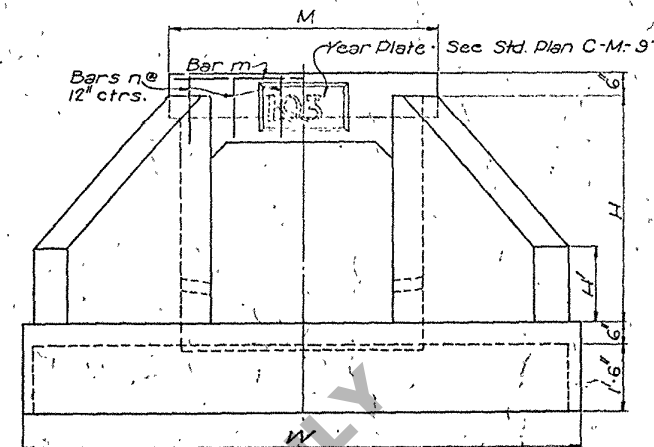


PLAN

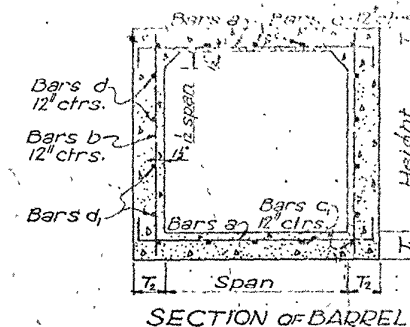
GENERAL NOTES & DESIGN DATA

Construction Specs: Latest Approved La. Hwy. Dept. Std. Specs.
Concrete: All Class "A" 1:6 mix.
Steel: All 1/2" bars, deformed.
All exposed corners to be chamfered 1/4".

Reinforcing bars should be wired at intersections and properly secured against displacement during depositing of concrete.
Design Specs: La. Hwy. Commission Std. Spec. 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 taken as 30 lbs. per sq. ft.
Steel in tension - 16,000 lbs. concrete in compression - 650 lbs.
Fill above slab of culvert is not to exceed the maximum height.
All dimensions referring to bars are to centers of bars.
Bars at splices to be lapped 2'-0" and separated 2'.



END ELEVATION



SECTION OF BARREL

STEEL SCHEDULE FOR 24'-0" CULVERT

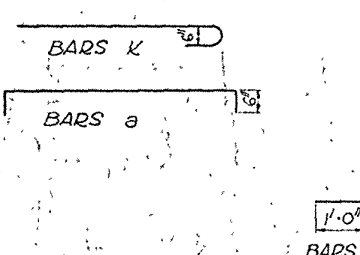
OPENING	BARREL REINFORCEMENT										WING WALL AND APRON REINFORCEMENT																																							
CLEAR CL. SPAN HEIGHT	BARS		BARS b		BARS c		BARS d		BARS e		BARS f		BARS g		BARS h		BARS i		BARS j		BARS k		BARS l																											
	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length																										
FF	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL																										
2	2	0	79	3	9	8	50	2	9	3	25	9	3	32	5	31	3	2	4	7	4	1	4	0	1	2	6	4	2	3	0	4	8	5	4	2	3	8	1	3	2	35	0							
3	2	6	89	4	9	7	50	2	9	4	25	9	4	32	5	31	3	2	4	7	4	1	4	5	0	1	2	7	4	2	3	0	4	8	5	4	2	4	3	10	1	3	2	33	0					
4	2	6	89	4	9	7	50	3	3	4	25	9	4	33	5	31	3	2	6	7	4	3	4	5	0	1	2	8	6	2	1	3	1	9	3	6	4	9	6	0	2	4	3	10	1	3	2	34	2	
5	3	0	89	4	9	7	50	3	9	4	25	9	4	34	5	31	3	3	2	8	7	5	0	4	5	0	1	2	8	6	2	2	3	1	9	4	0	4	8	6	9	2	4	3	10	1	3	2	35	4
6	2	0	104	5	9	6	50	2	11	5	25	9	5	32	7	31	6	2	4	7	4	1	4	6	0	1	2	8	4	2	3	0	4	8	5	6	2	5	3	12	1	3	2	33	4					
7	2	6	104	5	9	6	50	3	5	5	25	9	5	33	7	31	6	2	6	7	4	3	4	6	0	1	2	9	6	2	1	9	1	9	3	6	4	8	6	2	5	3	12	1	3	2	34	4		
8	3	0	104	5	9	6	50	3	11	5	25	9	5	34	7	31	6	3	2	8	7	5	0	4	6	0	1	2	9	6	2	2	8	1	9	4	0	4	8	6	10	2	5	3	12	1	3	2	35	6
9	4	0	104	6	9	6	50	4	11	5	25	9	5	36	9	31	6	3	3	0	7	5	11	4	6	0	1	2	10	8	2	1	6	1	9	5	0	4	8	8	3	2	5	8	12	1	3	4	37	8
10	2	0	104	6	9	6	50	3	0	6	25	9	6	32	9	31	8	2	4	7	4	1	4	7	0	1	2	9	4	2	3	0	4	8	5	8	2	6	3	14	1	3	2	35	6					
11	2	6	104	6	9	6	50	3	6	6	25	9	6	33	9	31	8	2	6	7	4	3	4	7	0	1	2	10	6	2	1	9	1	9	3	6	4	8	6	3	2	6	3	14	1	3	2	36	6	
12	3	0	104	6	9	6	50	4	0	6	25	9	6	34	9	31	8	3	2	8	7	5	0	4	7	0	1	2	10	6	2	2	3	1	9	4	0	4	8	7	0	2	6	3	14	1	3	2	35	6
13	4	0	104	7	9	6	50	5	0	6	25	9	6	35	11	31	8	3	3	0	7	5	11	4	7	0	1	2	11	8	2	1	6	1	9	5	0	4	8	8	4	2	6	8	14	1	3	4	37	10
14	5	0	104	7	9	6	50	6	0	6	25	9	6	36	13	31	8	3	3	2	7	7	3	4	7	0	1	2	12	10	2	2	10	1	9	5	0	4	9	10	2	6	8	14	1	3	4	40	10	

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

DIMENSIONS & QUANTITIES FOR 24'-0" CULVERT

OPENING		BARREL										WINGS AND FLOOR										PER LIN. FT.		TOTAL		TWO	
CL. SPAN	CL. HEIGHT	AREA	T	T	M	H	H'	L	A	W	D	X	STEEL CONC.	STEEL CONC.	STEEL CONC.	STEEL CONC.	STEEL CONC.	STEEL CONC.									
FT.	FT.	IN.	Sq. Ft.	IN.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.								
2	2	0	4.0	6	6	3	6	3	0	1	0	3	10	8	7	4	3	4	12								
	2	0	4.0	6	6	3	6	3	0	1	0	3	10	8	7	4	3	4	12								
3	2	6	7.5	6	6	4	6	3	6	1	2	4	5	8	8	11	3	10	12								
	2	6	7.5	6	6	4	6	3	6	1	2	4	5	8	8	11	3	10	12								
3	3	0	9.0	6	6	4	6	4	0	1	4	5	0	8	9	6	4	4	12								
	3	0	9.0	6	6	4	6	4	0	1	4	5	0	8	9	6	4	4	12								
4	2	0	8.0	7	6	5	6	3	1	1	0	4	0	8	3	6	3	5	9								
	2	0	8.0	7	6	5	6	3	1	1	0	4	0	8	3	6	3	5	9								
4	3	0	12.0	7	6	5	6	3	7	1	2	4	6	10	10	6	3	11	9								
	3	0	12.0	7	6	5	6	3	7	1	2	4	6	10	10	6	3	11	9								
4	4	0	16.0	7	8	5	11	5	1	1	8	6	4	10	12	3	5	6	9								
	4	0	16.0	7	8	5	11	5	1	1	8	6	4	10	12	3	5	6	9								
5	2	0	10.0	7	6	6	6	3	1	1	0	4	1	8	11	3	6	5	4								
	2	0	10.0	7	6	6	6	3	1	1	0	4	1	8	11	3	6	5	4								
5	3	0	15.0	7	6	6	6	4	1	1	4	5	2	8	11	8	6	5	4								
	3	0	15.0	7	6	6	6	4	1	1	4	5	2	8	11	8	6	5	4								
5	4	0	20.0	7	8	6	11	5	1	1	8	6	5	10	13	4	5	7	5								
	4	0	20.0	7	8	6	11	5	1	1	8	6	5	10	13	4	5	7	5								
5	5	0	25.0	7	8	6	11	5	1	1	10	7	11	10	14	10	6	5	5								
	5	0	25.0	7	8	6	11	5	1	1	10	7	11	10	14	10	6	5	5								

BAR BENDING DIAGRAM



DISCARD
5-17-56

Revision and replacement of Standard Plan B-2-5b.

CONCRETE BOX CULVERTS
FLANKING WING WALLS
2' TO 5' SPANS
STANDARD PLAN

LOUISIANA HIGHWAY COMMISSION
BATON ROUGE, LA.

DATE	APPROVED	DESIGNED	CHECKED	IN CHARGE
5-17-56	J. C. M.	J. C. M.	J. C. M.	J. C. M.