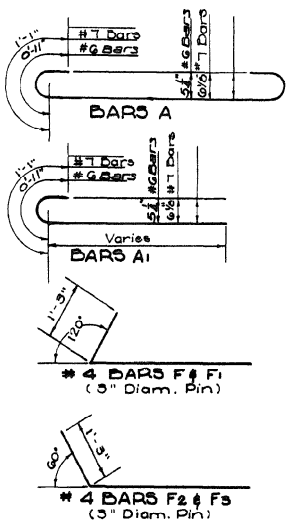
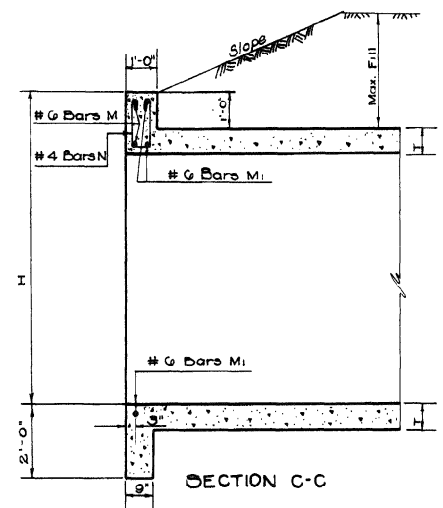
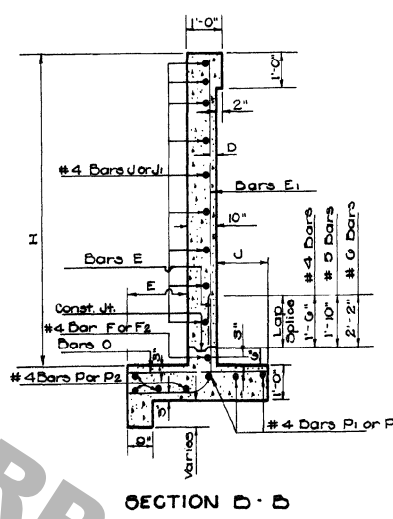
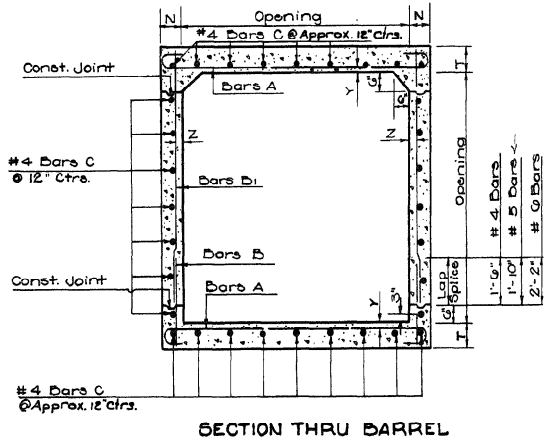
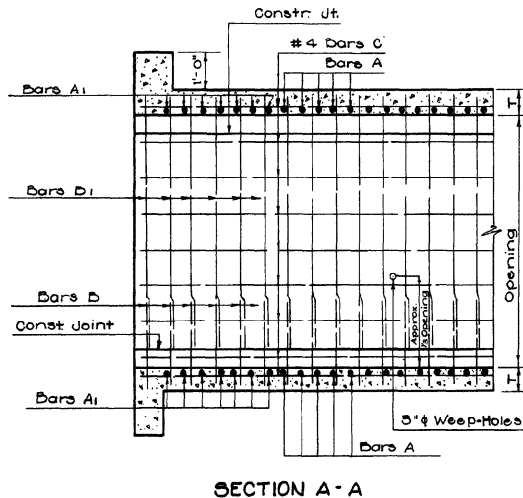
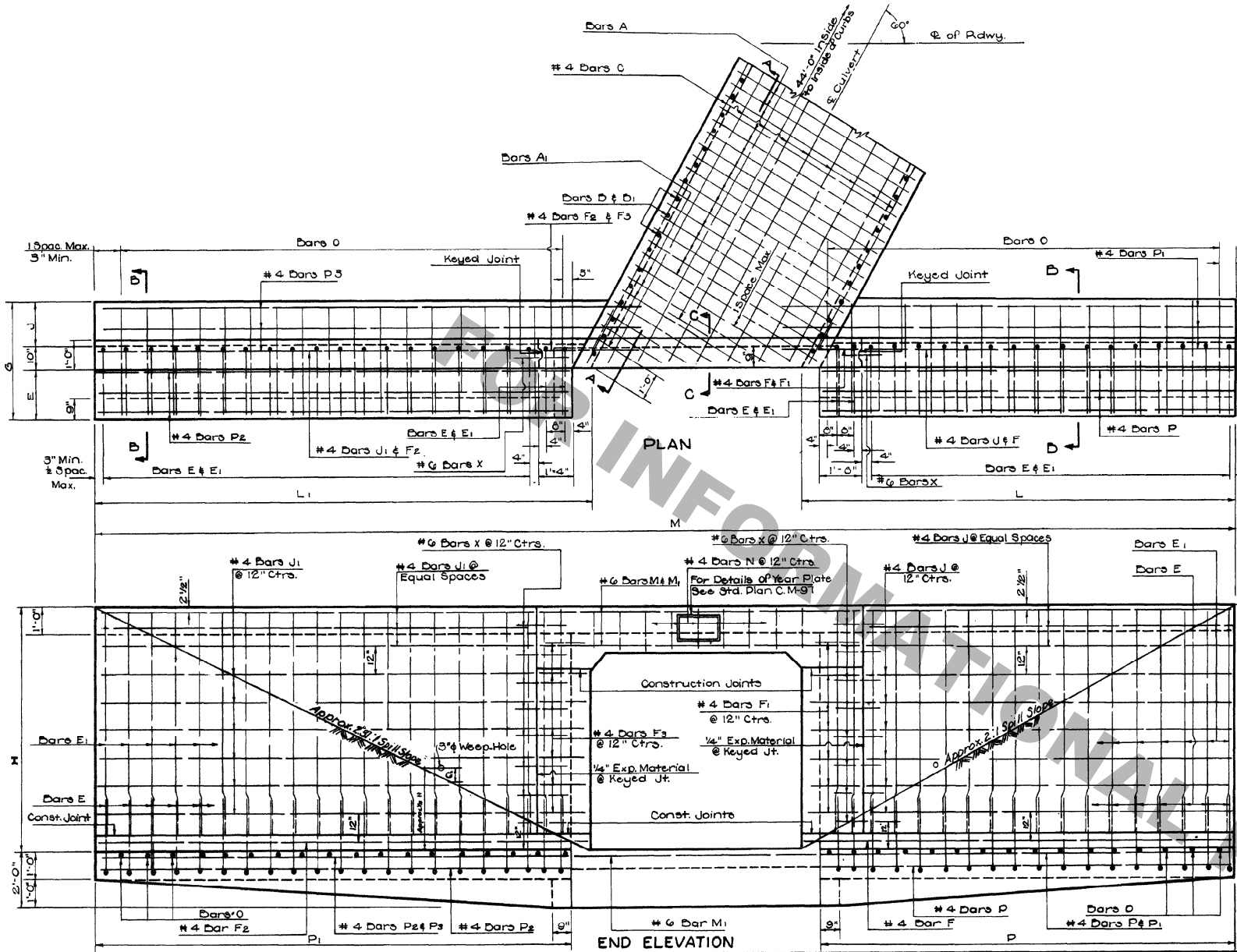


F.A.P.	STATE PROJECT	PARISH	SHEET NO.



OPENINGS		BARREL REINFORCEMENT												WINGS AND CURBS REINFORCEMENT											
		BARS A				BARS Ai				BARS D & Di				BARS E & Ei				BARS F & Fi				BARS G & Gi			
CLEAR SPAN	HEIGHT	SIZE	NO.	LENGTH	SPAC.	SIZE	NO.	LENGTH	SPAC.	SIZE	NO.	LENGTH	SPAC.	SIZE	NO.	LENGTH	SPAC.	SIZE	NO.	LENGTH	SPAC.	SIZE	NO.	LENGTH	SPAC.
FEET	FEET	IN.		FT.-IN.	IN.	FT.-IN.		FT.-IN.	IN.	FT.-IN.		FT.-IN.	IN.	FT.-IN.		FT.-IN.	IN.	FT.-IN.		FT.-IN.	IN.	FT.-IN.		FT.-IN.	IN.
7	7	#6	200	9'-2 1/2"	5"	#6	36	2'-0"	3'-0"	#5	84	2'-11"	7'-1"	#5	84	2'-11"	7'-1"	#5	84	2'-11"	7'-1"	#5	84	2'-11"	7'-1"
9	9	#6	198	10'-2 1/2"	5"	#6	40	2'-0"	3'-0"	#5	124	3'-0"	7'-2"	#5	124	3'-0"	7'-2"	#5	124	3'-0"	7'-2"	#5	124	3'-0"	7'-2"
10	10	#6	196	11'-2 1/2"	5"	#6	44	2'-0"	3'-0"	#5	164	3'-0"	7'-2"	#5	164	3'-0"	7'-2"	#5	164	3'-0"	7'-2"	#5	164	3'-0"	7'-2"

Includes 1'-6" Lap Splice.

Approved by: Demetrius D. Williams
CHIEF ENGINEER

1-11-78
DATE

overed to Dept. of Highways Std. Specs.
Amended by Int. Spec. 1964
whichever is Greater.
3/4" Unless Otherwise Noted.
S.T.M.A.G15 or Rail-Steel A.S.T.M.A.G16

Bar Centers
(Qualified Products List) shall be placed in
Hole, in addition to approx. 2 Cu. Ft. of Concrete Sand.

49.

DIMENSIONS																		QUANTITIES				OPENINGS	
OPENINGS			MAX. FILL		BARREL				WINGS & CURBS									PER LINEAR FOOT OF BARREL		44'-0" CULVERT (ALONG E)			
CLEAR SPAN	CLEAR HEIGHT	AREA	SLAB	WALL	N	T	Y	Z	E	J	G	H	D	L	P	Pi	M	STEEL	CONC.	STEEL	CONC.	CLEAR SPAN	CLEAR HEIGHT
FEET	FEET	Sq. Ft.	FEET	FEET	IN.	IN.	IN.	IN.	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	LBS.	CU. YDS.	LBS.	CU. YDS.	FEET	FEET
7	7	49	15	6	7	9	1 1/2	1 1/2	1-11	1-0	4-5	3-9	1 1/2	16-5 1/2	19-4 1/2	15-9	13-0	107.29	0.7654	7023	60.28	7	7
9	9	81	25	6	7	10	1 1/2	1 1/2	1-11	1-8	4-5	8-10	1 1/2	16-5 1/2	19-4 1/2	15-9	13-0	113.00	0.8776	7311	73.77	9	9
10	10	100	30	6	7	11	1 1/2	1 1/2	2-0	2-0	4-10	9-10 1/2	1 1/2	16-5 1/2	19-4 1/2	15-9	13-0	120.81	0.9805	8301	86.53	10	10
9	7	63	11	8	8	10 1/2	1 1/2	1 1/2	1-11	1-8	4-5	8-10 1/2	1 1/2	16-4 1/2	19-5 1/2	15-7	18-8	146.2	1.0247	8520	80.68	7	7
	9	72	11	5	8	10 1/2	1 1/2	1 1/2	2-0	2-0	4-10	9-10 1/2	1 1/2	18-9 1/2	21-2 1/2	18-0	20-5	143.90	1.0791	9204	90.35	9	9
	9	81	10	5	9	10 1/2	1 1/2	1 1/2	2-2	2-4	5-4	10-10 1/2	1 1/2	21-1 1/2	23-5 1/2	20-3	22-7	150.80	1.1898	10474	104.43	9	9
10	7	70	6	6	11	10 1/2	1 1/2	1 1/2	1-11	1-8	4-5	9-11	1 1/2	16-6 1/2	19-5 1/2	15-9	18-8	145.00	1.1245	8809	85.67	7	7
	9	80	6	6	9	11	10 1/2	1 1/2	2-0	2-0	4-10	9-11	1 1/2	18-8 1/2	22-0 1/2	17-10	21-2	153.61	1.2346	9798	98.62	9	9
	9	90	6	6	9	9	11	10 1/2	2-2	2-4	5-4	10-11	1 1/2	20-7 1/2	24-1 1/2	19-5	23-3	150.80	1.2201	110.74	102.50	10	10
10	10	100	6	6	10	11	10 1/2	1 1/2	2-4	2-6	5-10	11-11	1 1/2	23-0 1/2	26-3 1/2	22-1	25-4	175.06	1.4187	132.60	125.08	10	10

1-11-78 Rev. Weep Hole Note W.E.M.

2-20-75 Rev. Slope Intercept W.T.J.

6-8-72 Rev. Gen. Notes For Steel W.E.M.

1-21-70 Added 9'-7, 9'-0 & 9'-9' W.E.M.

4-27-67 Added A-16 Steel W.E.M.

8-18-68 Bars 8" Bar on 10" span W.E.M.

9-30-64 Added 7"x7" W.E.M.

4-3-64 DEFORMED BARS 1" TO 2" DIA. W.E.M.

9-20-63 Added 8"x7 & 8"x8 W.E.M.

DATE

DESCRIPTION

BY

REVISIONS

DESIGNED

CHECKED

(A) #6 Bars X to be

RE

ST

2

DATED

BY

GENERAL NOTES:
CONSTRUCTION SPECIFICATIONS: Latest Approved La. Dept. of Highways Std. Specs.
DESIGN SPECIFICATIONS: A.A.S.H.O. 1961 as Amended by Int. Spec. 1964
Live Load: HS 20-44 on Military Loading, whichever is Greater.
All Exposed Corners to be Chamfered 1/4" Unless Otherwise Noted.
Reinforcing Steel Shall be Billet-Steel A.S.T.M. A615 or Rail-Steel A.S.T.M. A616 or A617.
Dimensions to Reinforcing Steel are to Bar Centers.
A 1'-6" Square of Plastic Filter Cloth (See Qualified Products List) shall be placed in contact with concrete behind each Weep Hole, in addition to approx. 2 Cu. Ft. of Concrete Sand.
All Concrete to be Class "A".
For Details of Joints, See Std. Plan C-M-49.

APPROVED BY:
Dempsey D. White
CHIEF ENGINEER
1-11-78
DATE

*#6 Bars X to be 3/4" Smooth and Greased for 1'-0" of Length.

STANDARD PLAN
REINFORCED CONC. BOX CULVERT
STRAIGHT WINGWALLS 60° CROSSING
2:1 SPILL SLOPE NORMAL TO CHANNEL
7' THRU 10' CLEAR SPANS & CLHTS.

REVISIONS	DATE	DESCRIPTION	BY
1-11-78	Rev. Weep Hole Note	W.T.J.	
2-20-76	Rev. Slope Intercept	W.T.J.	
6-8-72	Rev. Gen. Notes For Steel	W.E.M.	
1-21-70	Added 9'-7" 3'-8" & 3'-9"	W.E.M.	
4-21-67	Added 1'-0" Steel	W.E.M.	
8-18-66	Added 8'-0" on 10' Span	W.E.M.	
8-30-64	Added 7'-0" 7'	W.E.M.	
4-3-64	PROPOSED BARRELS 7' TO 10'	W.E.M.	
3-20-63	Added 3'-7" & 3'-0"	W.E.M.	

STATE OF LOUISIANA DEPARTMENT OF HIGHWAYS		
DESIGNED <i>M. Yoshii</i>	DETAILED <i>M. Yoshii</i>	TRACED <i>Jane Reed</i>
CHECKED <i>J. J. Nantz</i>	CHECKED <i>R. E. Maxum</i>	CHECKED <i>R. E. Maxum</i>
BRIDGE DESIGN SECTION		

CC-S-7-10-RS-60-1