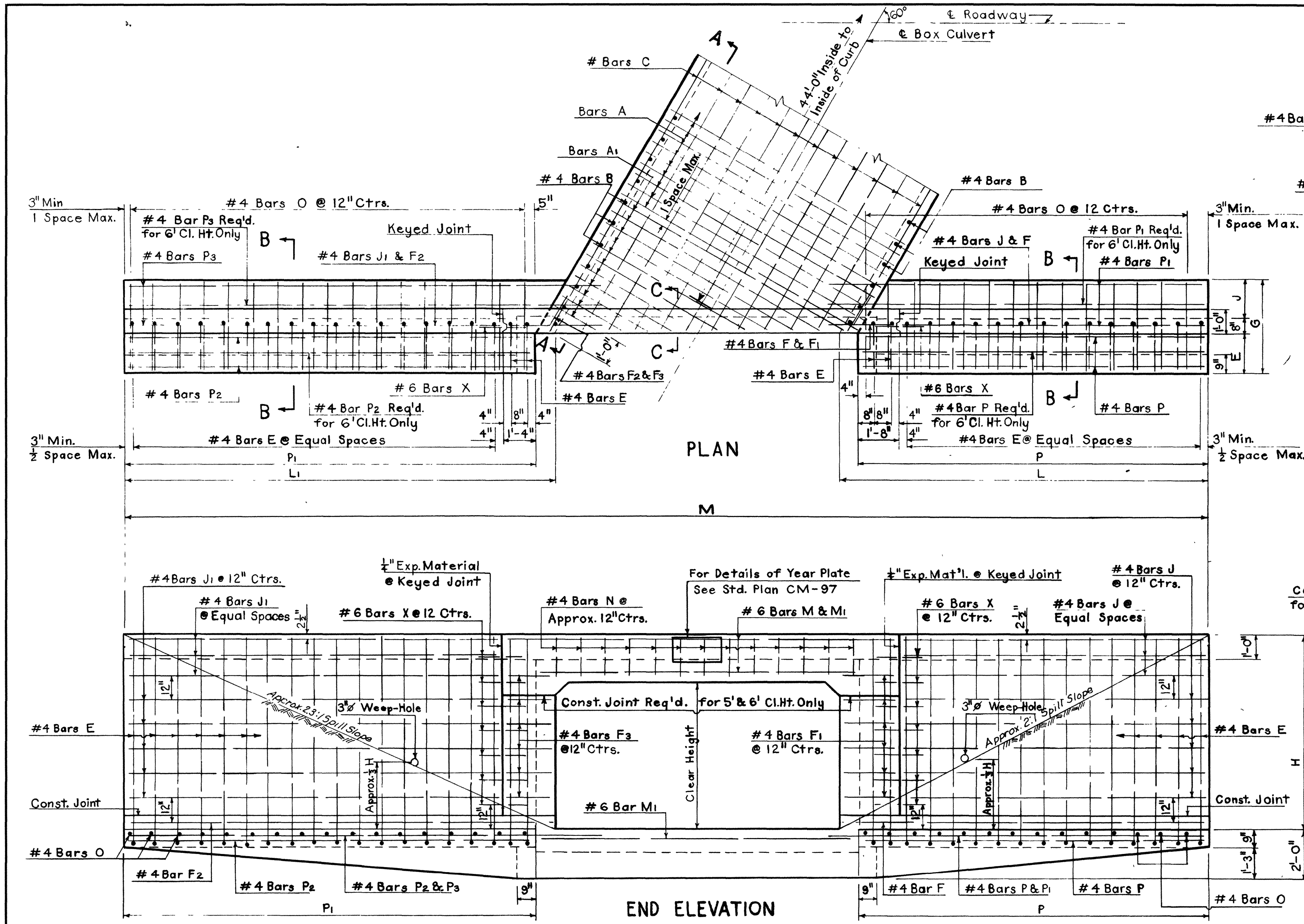
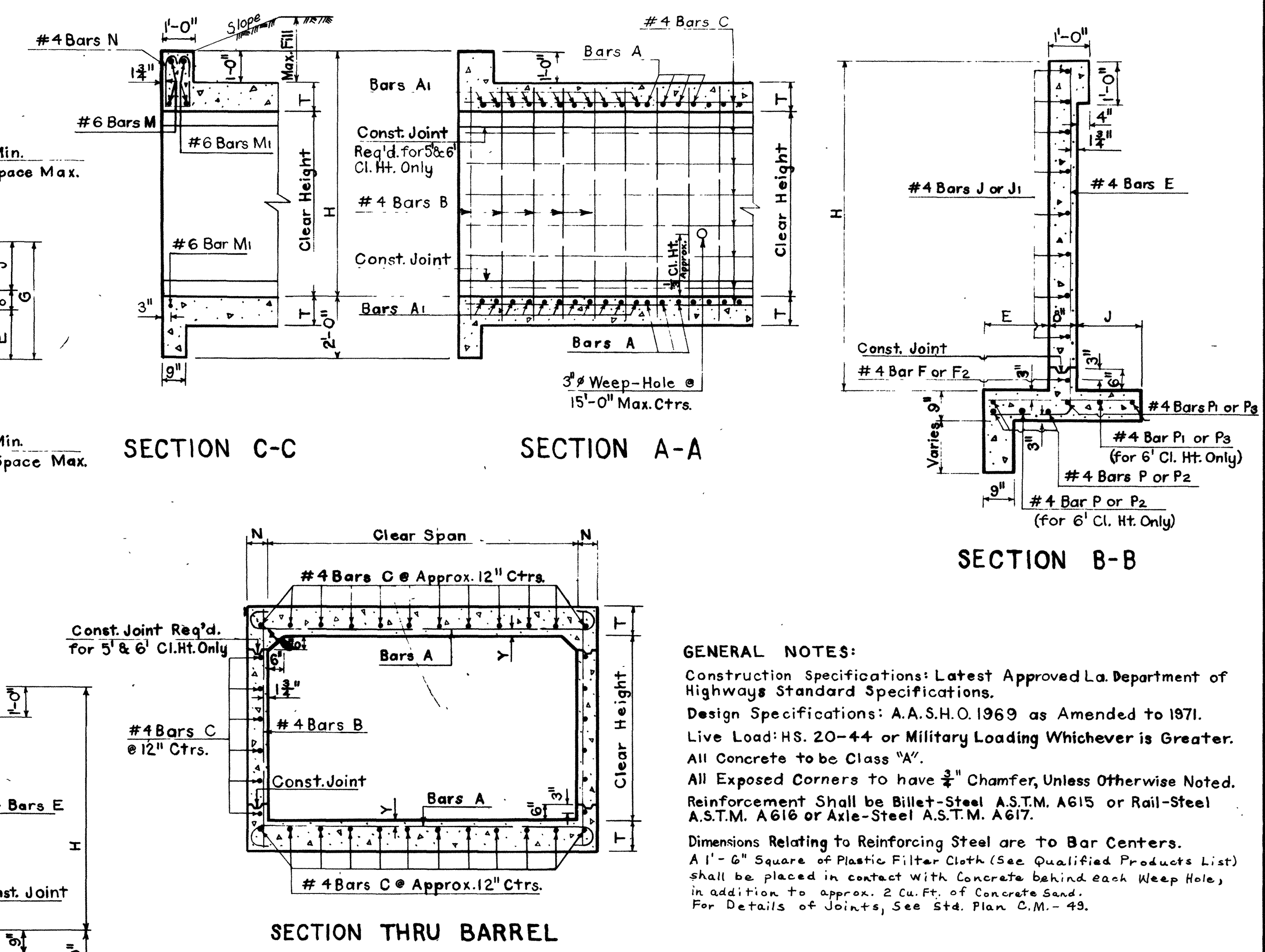
STATE PROJECT	PARISH	SHEET NO.





GENERAL NOTES:

Construction Specifications: Latest Approved La. Department of Highways Standard Specifications.

Design Specifications: A.A.S.H.O. 1969 as Amended to 1971.

Live Load: HS. 20-44 or Military Loading Whichever is Greater.

All Concrete to be Class "A".

All Exposed Corners to have ¾" Chamfer, Unless Otherwise Noted.

Reinforcement Shall be Billet-Steel A.S.T.M. A615 or Rail-Steel A.S.T.M. A616 or Axle-Steel A.S.T.M. A617.

Dimensions Relating 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.

For Details of Joints, See Std. Plan C.M.-49.

C.C.S.S. 8-10-R-60°-1

APPROVED BY:

Original Signed by Chief Engineer

CHIEF ENGINEER DATE

DIMENSIONS

Clear Span (FT.)	Clear Height (FT.)	Area (SQ.FT.)	Max. Fill Slab (FT.)	Max. Fill Wall (FT.)	Barrel N (IN.)	Barrel T (IN.)	Barrel Y (IN.)	E (FT.-IN.)	J (FT.-IN.)	G (FT.-IN.)	H (FT.-IN.)	L (FT.-IN.)	L1 (FT.-IN.)	P (FT.-IN.)	P1 (FT.-IN.)	M (FT.-IN.)
8	4	32	14	11	6	10	1 7/8	1-3	0-10	2-9	5-10	10-9 15/16	12-5 15/16	10-3	11-11	32-6 11/16
	5	40	13	6	6	10	1 7/8	1-5	1-2	3-3	6-10	12-9 15/16	14-6 15/16	12-3	14-0	36-7 11/16
	6	48	13	5	7	10	1 7/8	1-7	1-7	3-10	7-10	14-10 1/16	17-4 1/16	14-2	16-8	41-5
9	5	45	12	8	7	10½	1 15/16	1-5	1-2	3-3	6-10½	12-11 1/16	14-8 1/16	12-3	14-0	37-11 7/8
	6	54	12	5	7	10½	1 15/16	1-7	1-7	3-10	7-10½	14-10 1/16	17-4 1/16	14-2	16-8	42-6 7/8
10	5	50	10	11	8	11	1 15/16	1-5	1-2	3-3	6-11	13-0¼	14-9¼	12-3	14-0	39-4 1/16
	6	60	10	6	8	11	1 15/16	1-7	1-7	3-10	7-11	14-11¼	17-5¼	14-2	16-8	43-11 1/16

① Includes 1'-6" Lap Splice

BILL OF REINFORCING STEEL FOR 44'-0" CULVERT

BARREL REINFORCEMENT

Clear Span	Clear Height	Bars A Size	Bars A No.	Bars A Lgth. (FT.-IN.)	Bars A Spac. (IN.)	Bars A1 Size	Bars A1 No.	Bars A1 Short Bar (FT.-IN.)	Bars A1 Var. (IN.)	Bars A1 Long Bar (FT.-IN.)	Bars A1 Spac. (IN.)	#4 Bars B No.	#4 Bars B Lgth. (FT.-IN.)	#4 Bars B Spac. (IN.)	#4 Bars C No.	#4 Bars C Lgth.① (FT.-IN.)
8	4	#6	198	10-0½	5	#6	40	2-5	8.6667	8-11	5	94	5-4	12	26	47-5
8	5	#6	198	10-0½	5	#6	40	2-5	8.6667	8-11	5	94	6-4	12	28	47-5
8	6	#6	198	10-2½	5	#6	40	2-6	8.6667	9-0	5	94	7-4	12	30	47-5
9	5	#7	162	11-5½	6	#7	40	2-7	10.4444	10-5	6	94	6-5	12	30	47-5
9	6	#7	162	11-5½	6	#7	40	2-7	10.4444	10-5	6	94	7-5	12	32	47-5
10	5	#7	160	12-7½	6	#7	44	2-8	10.4000	11-4	6	94	6-6	12	32	47-5
10	6	#7	160	12-7½	6	#7	44	2-8	10.4000	11-4	6	94	7-6	12	34	47-5

WING AND CURB REINFORCEMENT

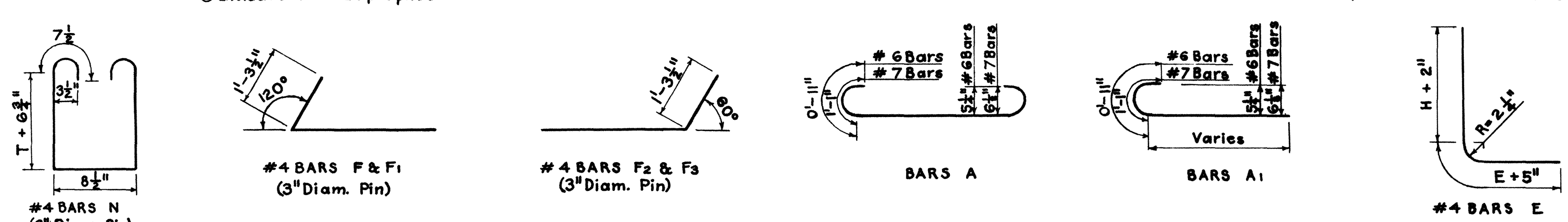
Clear Span	Clear Height	#4 Bars E No.	#4 Bars E Lgth. (FT.-IN.)	#4 Bars E Spac. (IN.)	#4 Bars F No.	#4 Bars F Lgth.	#4 Bars F1 No.	#4 Bars F1 Lgth.	#4 Bars F2 No.	#4 Bars F2 Lgth.	#4 Bars F3 No.	#4 Bars F3 Lgth.	#4 Bars J No.	#4 Bars J Lgth.	#4 Bars J1 No.	#4 Bars J1 Lgth.	#6 Bars M No.	#6 Bars M Lgth.	#6 Bars M1 No.	#6 Bars M1 Lgth.
8	4	48	7-8	12	2	11-5	8	2-9	2	13-8	8	3-0	12	8-3	12	10-3	4	12-10	6	10-0
8	5	56	8-10	12	2	13-5	10	2-9	2	15-9	10	3-0	14	10-3	14	12-4	4	12-10	6	10-0
8	6	70	10-0	11	2	15-5	12	2-10	2	18-6	12	3-1	16	12-2	16	15-0	4	13-0	6	10-2
9	5	56	8-10½	12	2	13-6	10	2-10	2	15-10	10	3-1	14	10-3	14	12-4	4	14-2	6	11-4
9	6	70	10-0½	11	2	15-5	12	2-10	2	18-6	12	3-1	16	12-2	16	15-0	4	14-2	6	11-4
10	5	56	8-11	12	2	13-7	10	2-11	2	15-11	10	3-2	14	10-3	14	12-4	4	15-6	6	12-8
10	6	70	10-1	11	2	15-6	12	2-11	2	18-7	12	3-2	16	12-2	16	15-0	4	15-6	6	12-8

Clear Span	Clear Height	#4 Bars N No.	#4 Bars N Lgth.	#4 Bars O No.	#4 Bars O Lgth.	#4 Bars P No.	#4 Bars P Lgth.	#4 Bars P1 No.	#4 Bars P1 Lgth.	#4 Bars P2 No.	#4 Bars P2 Lgth.	#4 Bars P3 No.	#4 Bars P3 Lgth.	#6 Bars X Ⓐ No.	#6 Bars X Lgth.
8	4	20	4-9	44	2-4	6	9-11	4	11-5	6	11-7	4	14-1	20	2-0
8	5	20	4-9	52	2-10	6	11-11	4	13-5	6	13-8	4	16-3	24	2-0
8	6	20	4-9	62	3-5	8	13-10	6	15-4	8	16-4	6	19-2	28	2-0
9	5	24	4-10	52	2-10	6	11-11	4	13-5	6	13-8	4	16-3	24	2-0
9	6	24	4-10	62	3-5	8	13-10	6	15-4	8	16-4	6	19-2	28	2-0
10	5	26	4-11	52	2-10	6	11-11	4	13-5	6	13-8	4	16-3	24	2-0
10	6	26	4-11	62	3-5	8	13-10	6	15-4	8	16-4	6	19-2	28	2-0

QUANTITIES

Per Linear Ft. of Barrel Steel (LBS.)	Per Linear Ft. of Barrel Conc. (CU. YDS.)	44'-0" Culvert Steel (LBS.)	44'-0" Culvert Conc. (CU. YDS.)	Opening Clear Span (FT.)	Opening Clear Height (FT.)
96.89	0.7130	5457	45.78	8	4
99.56	0.7500	5813	51.58	8	5
103.44	0.8344	6401	60.71	8	6
122.30	0.8843	6918	58.01	9	5
124.97	0.9275	7447	65.21	9	6
133.28	1.0257	7450	64.77	10	5
135.95	1.0751	7980	72.27	10	6

Ⓐ #6 Bars "X" to be ¾" ø Smooth and Greased for 1'-0" of Length.



Date	Description	By
1-11-78	Rev. Weep Hole Note	W.T.J.
2-20-75	Rev. Slope Intercept	W.T.J.
6-8-72	Rev. General Notes for Steel	W.E.M.

REVISIONS

STANDARD PLAN

REINFORCED CONCRETE BOX CULVERT
STRAIGHT WINGS 60° CROSSING
2:1 SPILL SLOPE
8' TO 10' SPANS 4' TO 6' HEIGHTS
DATED JAN. 6, 1972

STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS

DESIGNED | DETAILED J.J. RIBAS | TRACED M. LANOUX
CHECKED | CHECKED J.D. BACCI | CHECKED J.J. RIBAS

C.C.S.S. 8-10-R-60°-1

RIDGWAY 3M 10-69 IMPERIAL #254