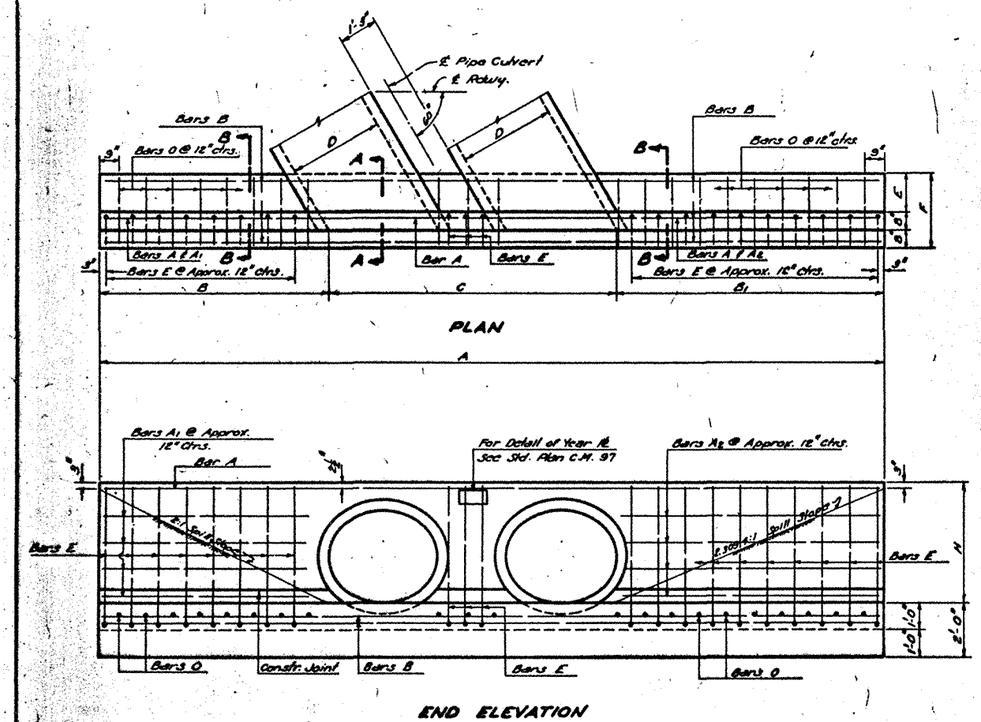
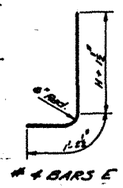
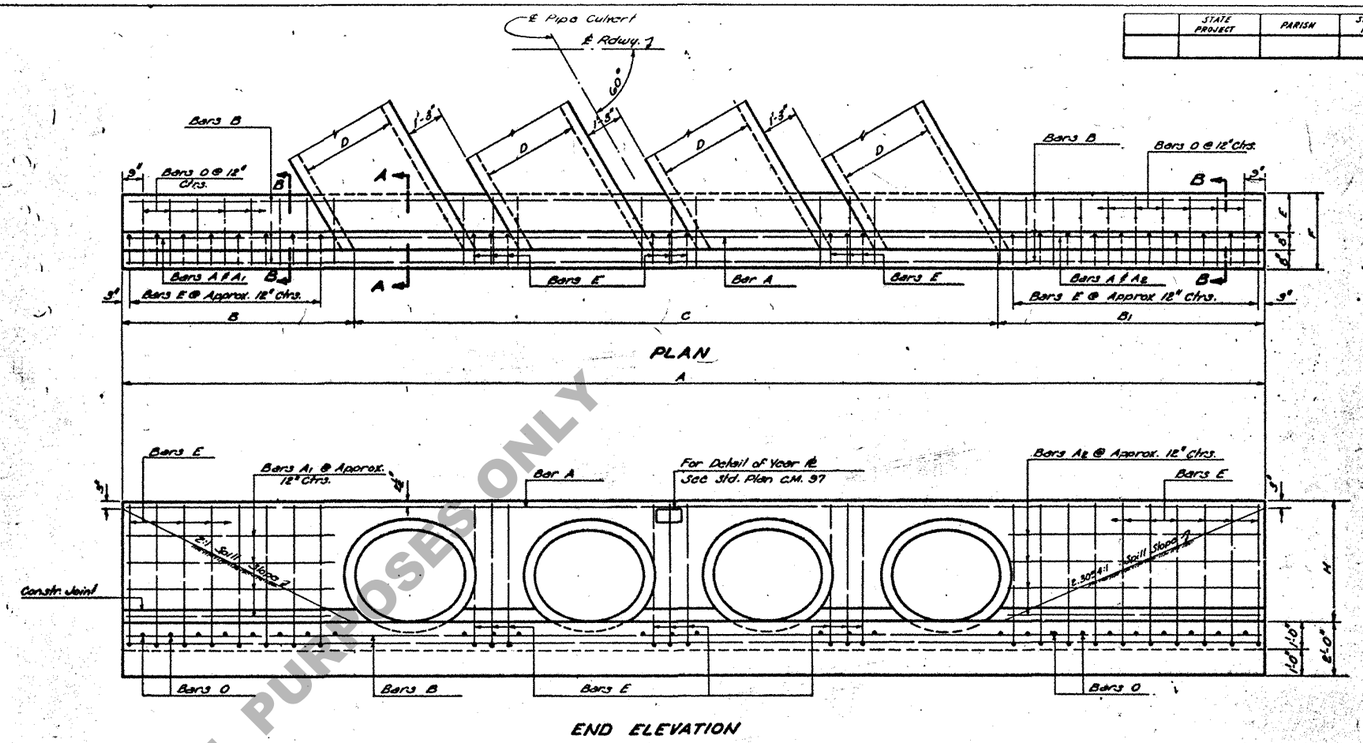
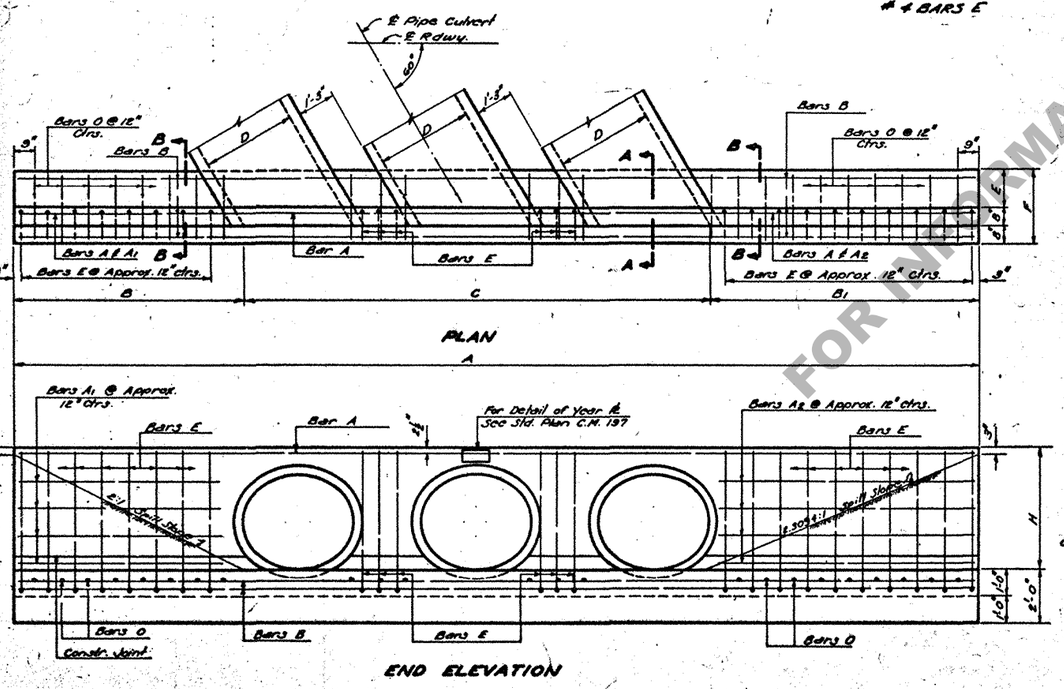
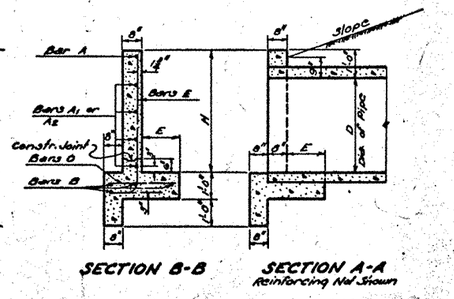
STATE PROJECT	PARISH	SHEET NO.











DIMENSIONS AND QUANTITIES FOR ONE HEADWALL

TWO OPENINGS											THREE OPENINGS										FOUR OPENINGS									
D PIPE DIA.	A FT. IN.	B FT. IN.	B1 FT. IN.	C FT. IN.	E FT. IN.	F FT. IN.	H FT. IN.	CONC. CU. YDS.	REINF. STEEL LBS.	D PIPE DIA.	A FT. IN.	B FT. IN.	B1 FT. IN.	C FT. IN.	E FT. IN.	F FT. IN.	H FT. IN.	CONC. CU.YDS.	REINF. STEEL LBS.	D PIPE DIA.	A FT. IN.	B FT. IN.	B1 FT. IN.	C FT. IN.	E FT. IN.	F FT. IN.	H FT. IN.	CONC. CU.YDS.	REINF. STEEL LBS.
18"	15-1	4-6	5-2 3/8	5-4 3/8	0-5	1-9	2-6	2.11	102	18"	18-8 3/8	4-6	5-2 3/8	9-0 3/8	0-5	1-9	2-6	2.58	124	18"	22-4 3/4	4-6	5-2 3/8	12-8 3/8	0-5	1-9	2-6	3.05	147
24"	18-5 3/8	5-6	6-4 3/8	6-7 3/8	0-8	2-0	3-0	2.90	137	24"	22-9 3/8	5-6	6-4 3/8	10-11 3/8	0-8	2-0	3-0	3.51	163	24"	27-1 3/8	5-6	6-4 3/8	15-3 3/8	0-8	2-0	3-0	4.11	189
30"	21-10 3/8	6-6	7-6 3/8	7-10 3/8	0-11	2-3	3-6	3.81	168	30"	26-10 3/8	6-6	7-6 3/8	12-10 3/8	0-11	2-3	3-6	4.56	198	30"	31-10 3/8	6-6	7-6 3/8	17-10 3/8	0-11	2-3	3-6	5.51	228
36"	25-3 3/8	7-6	8-7 3/8	9-1 3/8	1-2	2-6	4-0	4.82	216	36"	30-11 3/8	7-6	8-7 3/8	14-9 3/8	1-2	2-6	4-0	5.73	250	36"	36-7 3/8	7-6	8-7 3/8	20-6	1-2	2-6	4-0	6.64	284

SCHEDULE OF REINFORCING STEEL FOR ONE HEADWALL

TWO OPENINGS																																			
D PIPE DIA.	#4 BARS A				#4 BARS A1				#4 BARS A2				#4 BARS B				#4 BARS E				#4 BARS O				TOTAL LENGTH
	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	FT. IN.
18"	1	14-9	2	3-7	2	4-10	4	14-9	12	3-10	12	1-4	152-7
24"	1	18-1	3	4-6	3	5-11	4	18-1	14	4-4	14	1-7	204-6
30"	1	21-6	3	5-6	3	7-1	4	21-6	16	4-10	16	1-10	251-11
36"	1	24-11	4	6-5	4	8-2	4	24-11	19	5-4	19	2-1	338-10

THREE OPENINGS																																			
D PIPE DIA.	#4 BARS A				#4 BARS A1				#4 BARS A2				#4 BARS B				#4 BARS E				#4 BARS O				TOTAL LENGTH
	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	FT. IN.
18"	1	18-4	2	3-7	2	4-10	4	18-4	15	3-10	15	1-4	186-0
24"	1	22-5	3	4-6	3	5-11	4	22-5	17	4-4	17	1-7	243-11
30"	1	26-6	3	5-6	3	7-1	4	26-6	19	4-10	19	1-10	296-11
36"	1	30-7	4	6-5	4	8-2	4	30-7	22	5-4	22	2-1	374-5

FOUR OPENINGS																																			
D PIPE DIA.	#4 BARS A				#4 BARS A1				#4 BARS A2				#4 BARS B				#4 BARS E				#4 BARS O				TOTAL LENGTH
	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	Nº	LGTH. FT. IN.	FT. IN.
18"	1	22-0	2	3-7	2	4-10	4	22-0	18	3-10	18	1-4	219-10
24"	1	26-9	3	4-6	3	5-11	4	26-9	20	4-4	20	1-7	289-4
30"	1	31-6	3	5-6	3	7-1	4	31-6	22	4-10	22	1-10	341-11
36"	1	36-3	4	6-5	4	8-2	4	36-3	25	5-4	25	2-1	425-0

GENERAL NOTES:
CONSTRUCTION SPECIFICATIONS: Latest approved La. Dept. of Highway Standard Specifications.
All Concrete to be Class "A".
All exposed Corners to be Chamfered 3/4".
Reinforcement Bars shall be Intermediate or Hard Grade, A.S.T.M. A15 or Rail Steel, A.S.T.M. A16, conforming to A.S.T.M. A-305.
Dimensions relating to Reinforcing Steel are to Bar center.
No Reinforcing Steel shall rest on or touch Concrete Pipe.
When culvert is located at a site subject to scour, the Headwalls shall be made deeper or Riprap placed around inlets face of Headwall to prevent scouring.
For Details of Construction Joints, See Std. Plan, CM-43.

DESIGN TAKEN FROM STD. PLAN R.P. 67

RETRACED 4/4/64 L.S.M.

STANDARD PLAN
REINFORCED CONC. PIPE CULV. HEADWALLS
STRAIGHT WINGS, 18" TO 36" DIA.
TWO(2), THREE (3), & FOUR (4), OPENINGS
60° CROSSING
DATED AUG. 1960

DATE	DESCRIPTION	BY

REVISIONS

STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS

DESIGNED	DETAILED M. Gollins	TRACED
CHECKED	CHECKED S. McLaren	CHECKED S. McLaren

BRIDGE DESIGN SECTION

C. M. 207

FOR INFORMATIONAL PURPOSES ONLY