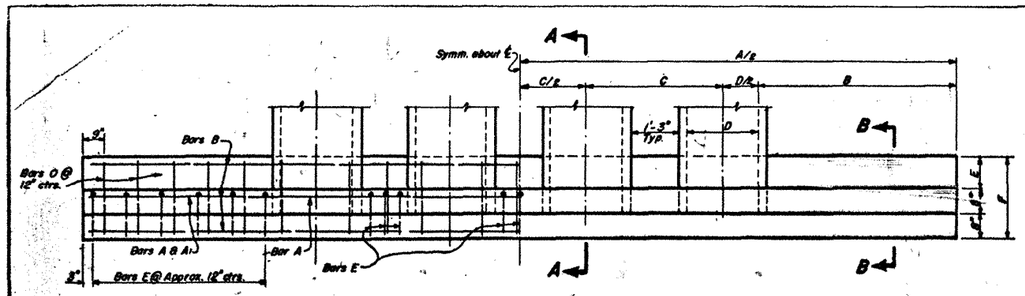
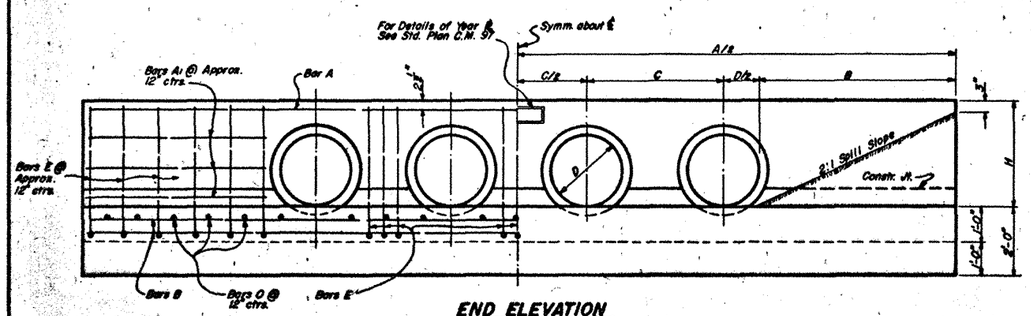
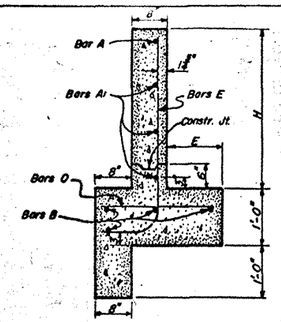
STATE PROJECT	PARISH	SHEET Nº



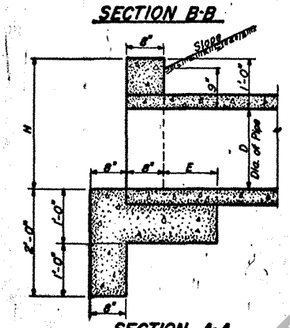
PLAN



END ELEVATION



SECTION B-B



SECTION A-A

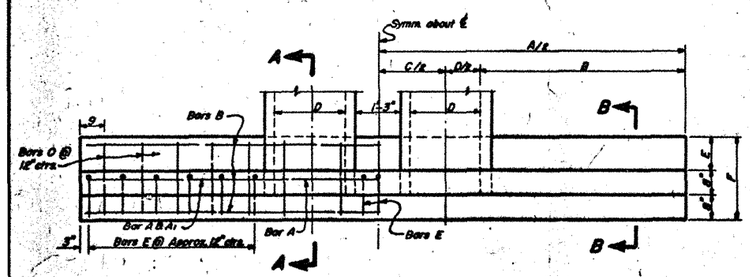
REINFORCING NOT SHOWN

DIMENSIONS AND QUANTITIES FOR ONE HEADWALL

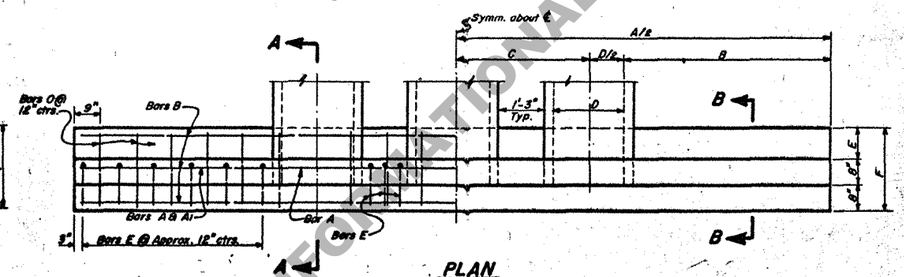
TWO OPENINGS										THREE OPENINGS										FOUR OPENINGS									
D PIPE DIA.	A FT. IN.	B FT. IN.	C FT. IN.	E FT. IN.	F FT. IN.	H FT. IN.	CONC. CU.YDS.	REINF. STEEL LBS.	D PIPE DIA.	A FT. IN.	B FT. IN.	C FT. IN.	E FT. IN.	F FT. IN.	H FT. IN.	CONC. CU.YDS.	REINF. STEEL LBS.	D PIPE DIA.	A FT. IN.	B FT. IN.	C FT. IN.	E FT. IN.	F FT. IN.	H FT. IN.	CONC. CU.YDS.	REINF. STEEL LBS.
18"	13-8	4-6	3-2	0-5	1-9	2-6	1.92	99	18"	16-10	4-6	3-2	0-5	1-9	2-6	2.33	120	18"	20-0	4-6	3-2	0-5	1-9	2-6	2.73	141
24"	16-9	5-6	3-9	0-8	2-0	3-0	2.64	133	24"	20-6	5-6	3-9	0-8	2-0	3-0	3.17	157	24"	24-3	5-6	3-9	0-8	2-0	3-0	3.69	181
30"	19-10	6-6	4-4	0-11	2-3	3-6	3.47	163	30"	24-2	6-6	4-4	0-11	2-3	3-6	4.12	191	30"	28-6	6-6	4-4	0-11	2-3	3-6	4.77	219
36"	22-11	7-6	4-11	1-2	2-6	4-0	4.40	205	36"	27-10	7-6	4-11	1-2	2-6	4-0	5.19	236	36"	32-9	7-6	4-11	1-2	2-6	4-0	5.97	267

SCHEDULE OF REINF. STEEL FOR ONE HEADWALL

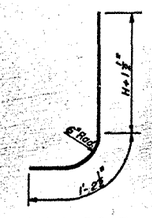
TWO OPENINGS												THREE OPENINGS												FOUR OPENINGS											
D PIPE DIA.	#4 BARS A		#4 BARS Ai		#4 BARS B		#4 BARS E		#4 BARS O		TOTAL LENGTH	D PIPE DIA.	#4 BARS A		#4 BARS Ai		#4 BARS B		#4 BARS E		#4 BARS O		TOTAL LENGTH	D PIPE DIA.	#4 BARS A		#4 BARS Ai		#4 BARS B		#4 BARS E		#4 BARS O		TOTAL LENGTH
	Nº	LGTH.	Nº	LGTH.	Nº	LGTH.	Nº	LGTH.	Nº	LGTH.			Nº	LGTH.	Nº	LGTH.	Nº	LGTH.	Nº	LGTH.	Nº	LGTH.			Nº	LGTH.	Nº	LGTH.	Nº	LGTH.	Nº	LGTH.	Nº	LGTH.	
18"	1	15'-4	4	4'-0	4	15'-3	13	3'-10	13	1'-3"	146'-5"	18"	1	16'-6	4	4'-0	4	16'-5	16	3'-10	16	1'-3"	179'-6"	18"	1	19'-8	4	4'-0	4	19'-7	19	3'-10	19	1'-3	210'-7"
24"	1	16'-5"	6	4'-11	4	16'-4	15	4'-4	15	1'-6"	198'-9"	24"	1	20'-2	6	4'-11	4	20'-1	18	4'-4	18	1'-6"	235'-0"	24"	1	23'-11	6	4'-11	4	23'-10	21	4'-4	21	1'-6"	271'-3"
30"	1	19'-6	6	5'-11	4	19'-5	17	4'-10	17	1'-9"	244'-7"	30"	1	23'-10	6	5'-11	4	23'-9	20	4'-10	20	1'-9"	286'-0"	30"	1	28'-2	6	5'-11	4	28'-1	23	4'-10	23	1'-9"	327'-8"
36"	1	22'-7	8	6'-10	4	22'-6	19	5'-4	19	2'-0"	306'-7"	36"	1	27'-6	8	6'-10	4	27'-5	22	5'-4	22	2'-0"	353'-2"	36"	1	32'-5	8	6'-10	4	32'-4	25	5'-4	25	2'-0"	399'-9"



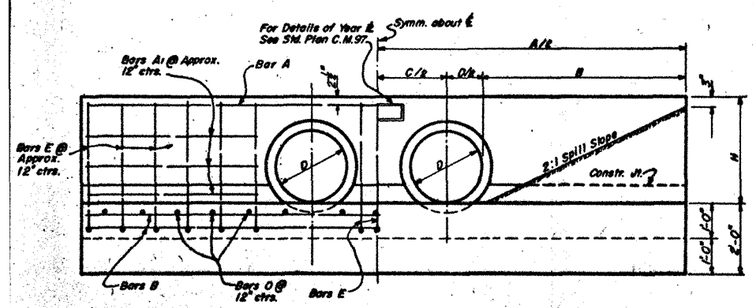
PLAN



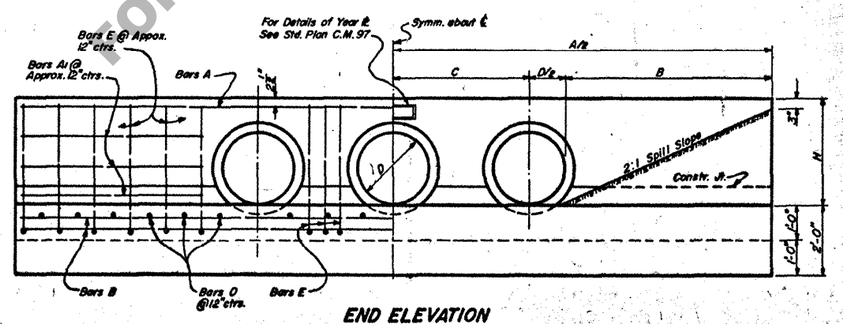
PLAN



#4 BARS E



END ELEVATION



END ELEVATION

DESIGN TAKEN FROM STD. PLAN R.P. 67

GENERAL NOTES:

CONSTRUCTION SPECIFICATIONS: Latest approved La. Dept. of Hwy. Std. Specs.
All concrete to be Class "A."
All exposed corners to be chamfered ¾".
Reinforcement bars shall be Intermediate or Hard Grade, A.S.T.M. A-15, or Rail Steel; A.S.T.M. A-16, conforming with A.S.T.M. A-305.
All Reinforcing to be #4 Bars.
Dimensions relating to Reinforcing Steel are to bar centers.
No Reinforcing Steel shall rest or touch Concrete Pipe.
When culvert is located at a site subject to scour, the Headwalls shall be made deeper or Riprap placed around inside face of Headwalls to prevent scouring.
For details of Construction Joints, See Std. Plan CM-49.
For details of Year Plate, See Std. Plan CM-97.

VOID
RETRACED 5/26/64

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

DATED OCT. 12, 1959

STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS

DATE	DESCRIPTION	BY
2-5-60	Eliminate 42" to 60" Dia.	

REVISIONS

DESIGNED	DETAILED V. B. Russo	TRACED Louis Nash
CHECKED	CHECKED C. Spaud	CHECKED V. B. Russo

BRIDGE DESIGN SECTION

C.M. 198

FOR INFORMATIONAL PURPOSES ONLY