



DIMENSIONS															QUANTITIES									
OPENINGS	MAX. FILL	BARREL										WINGS AND CURBS					PER LINEAR FOOT OF BARREL		44'-0" CULVERT		OPENINGS			
		AREA	SLAB	WALL	T	T <sub>1</sub>	Y	Z	E	U	G	H	D	L	L <sub>1</sub>	P	P <sub>1</sub>	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																							
8	7																							
9	7																							
10	7																							
7	70	10	10	11 1/2	7	1 1/2	1 1/2	1-11	1-8	4-5	8-11 1/2	1 1/2	17-3 1/2	17-5 1/2	16-7	18-9	48-0 1/2	166.66	1,106.4	9788	85.62	7	7	
8	80	10	10	11 1/2	8	1 1/2	1 1/2	2-0	4-10	4-10	7-11 1/2	1 1/2	18-1 1/2	21-9 1/2	18-2	21-0	52-3 1/2	173.67	1,2088	10791	97.61	8	8	
9	90	10	10	11 1/2	9	1 1/2	1 1/2	2-2	2-6	5-4	10-11 1/2	1 1/2	20-8 1/2	24-0 1/2	17-10	23-2	54-3 1/2	185.87	1,3256	12221	111.88	9	9	
10	100	10	10	11 1/2	10	1 1/2	1 1/2	2-4	2-8	5-10	11-11 1/2	1 1/2	23-0 1/2	26-3 1/2	22-1	25-4	60-0 1/2	193.67	1,4547	12962	126.84	10	10	

OPENINGS	BARREL REINFORCEMENT										WINGS AND CURBS REINFORCEMENT																																											
	BARS A		BARS A1		BARS B F B1		BARS C		BARS E F E1		BARS F F1		BARS F2 F21		BARS J		BARS J1		BARS M		BARS M1		BARS N		BARS O		BARS P		BARS P1		BARS P2		BARS P3																					
CLEAR SPAN	CLEAR 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.	SIZE	NO.	LENGTH	SPAC.	SIZE	NO.	LENGTH	SPAC.																					
FEET	FEET	IN.	IN.	FT.-IN.	IN.	IN.	IN.	FT.-IN.	IN.	IN.	IN.	FT.-IN.	IN.	IN.	IN.	FT.-IN.	IN.	IN.	IN.	FT.-IN.	IN.	IN.	IN.	FT.-IN.	IN.	IN.	IN.	FT.-IN.	IN.	IN.	FT.-IN.	IN.																						
7	7																																																					
8	7																																																					
9	7																																																					
10	7																																																					
7	7	#7	174	11-10	5 1/2	#7	48	2-6	16 1/2	11-0	5 1/2	#5	138	3-2	7-4	8	42	47-5	#6	#6	86	5-1	8-4	10	2	17-9	14	2-0 1/2	2	20-8	14	3-1 1/2	18	14-7	18	17-1	6	15-6	4	12-6	24	4-11 1/2	#4	72	4-0	12	8	16-9	6	17-6	8	18-5	6	21-5
8	7	#7	174	12-0	5 1/2	#7	48	2-5	16 1/2	11-1	5 1/2	#5	148	3-2	8-4	7 1/2	42	47-5	#6	#6	100	5-6	9-4	9 1/2	2	19-3	16	2-9 1/2	2	23-0	18	3-2 1/2	20	14-2	20	19-4	6	15-6	4	12-8	24	4-11 1/2	#4	78	4-5	12	8	17-10	6	19-1	8	20-8	6	23-10
9	7	#7	174	12-2	5 1/2	#7	48	2-6	16 1/2	11-2	5 1/2	#6	116	3-6	9-2	9 1/2	42	47-5	#6	#6	76	5-11	10-4	11	2	21-2	18	2-11	2	23-3	18	3-3 1/2	22	17-10	22	21-6	6	15-9	4	12-10	24	4-11 1/2	#4	104	4-11	10	8	19-6	6	20-9	8	22-10	6	26-2
10	7	#7	174	12-4	5 1/2	#7	48	2-7	16 1/2	11-3	5 1/2	#6	122	3-6	10-2	9	42	47-5	#6	#6	75	13-6	11-6	8 1/2	2	22-6	20	3-0	2	27-6	20	3-4 1/2	24	20-1	24	22-8	6	16-0	4	12-1	24	4-11 1/2	#4	108	5-3	10 1/2	8	21-9	6	23-1	8	25-0	6	28-4

\* Includes 1'-6" Lap Splice.

GENERAL NOTES:  
 CONSTRUCTION SPECIFICATIONS: Latest approved La. Dept. of Highways Std. Specs.  
 DESIGN SPECIFICATIONS: A.S.T.M. 1937 as amended to Dec. 31, 1960.  
 Live Load: H20-S16-44.  
 All exposed corners to be chamfered 3" unless otherwise noted.  
 Reinforcing Steel 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. A305.  
 Dimensions to Reinforcing Steel are to Bar Centers.  
 Place about 2 Cu. Ft. of Large Size Gravel or Loose Rock behind and around each Weep Hole.  
 All Concrete to be Class "A".  
 For Details of Expansion and Construction Joint See Std. Plan C.M. 43.

VOID  
 RETURNED  
 See New Detail  
 Same No. 4/1/62  
 P. 84

STANDARD PLAN  
 REINFORCED CONG. BOX CULVERT  
 STRAIGHT WINGWALLS 60° CROSSING  
 2:1 SPILL SLOPE NORMAL TO CHANNEL  
 7' THRU 10' CLEAR SPANS, 8 CL. HTS.  
 DATED March 2, 1961

STATE OF LOUISIANA  
 DEPARTMENT OF HIGHWAYS

DESIGNED BY: YOSHII  
 CHECKED: G.A.H.  
 DETAILED BY: YOSHII  
 CHECKED: A.C. BROWN  
 TRACED BY: H.  
 CHECKED: YOSHII

BRIDGE DESIGN SECTION