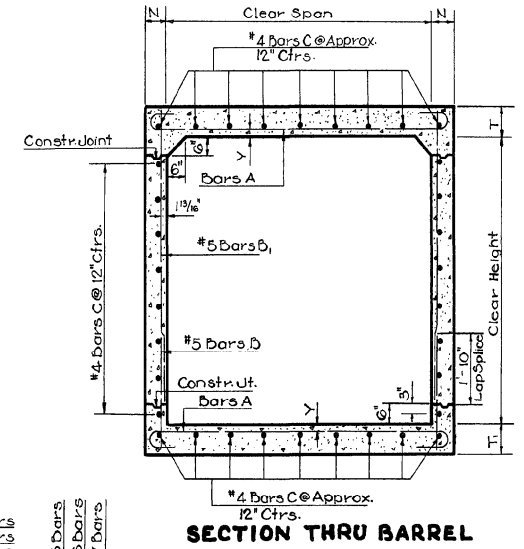
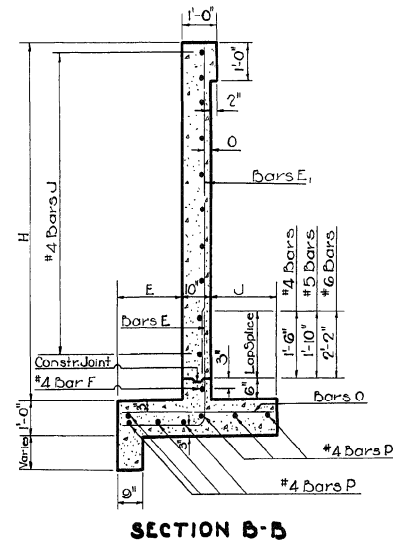
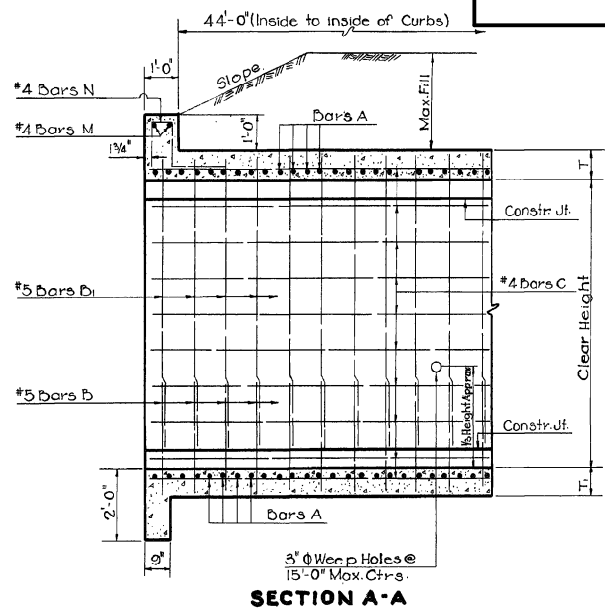
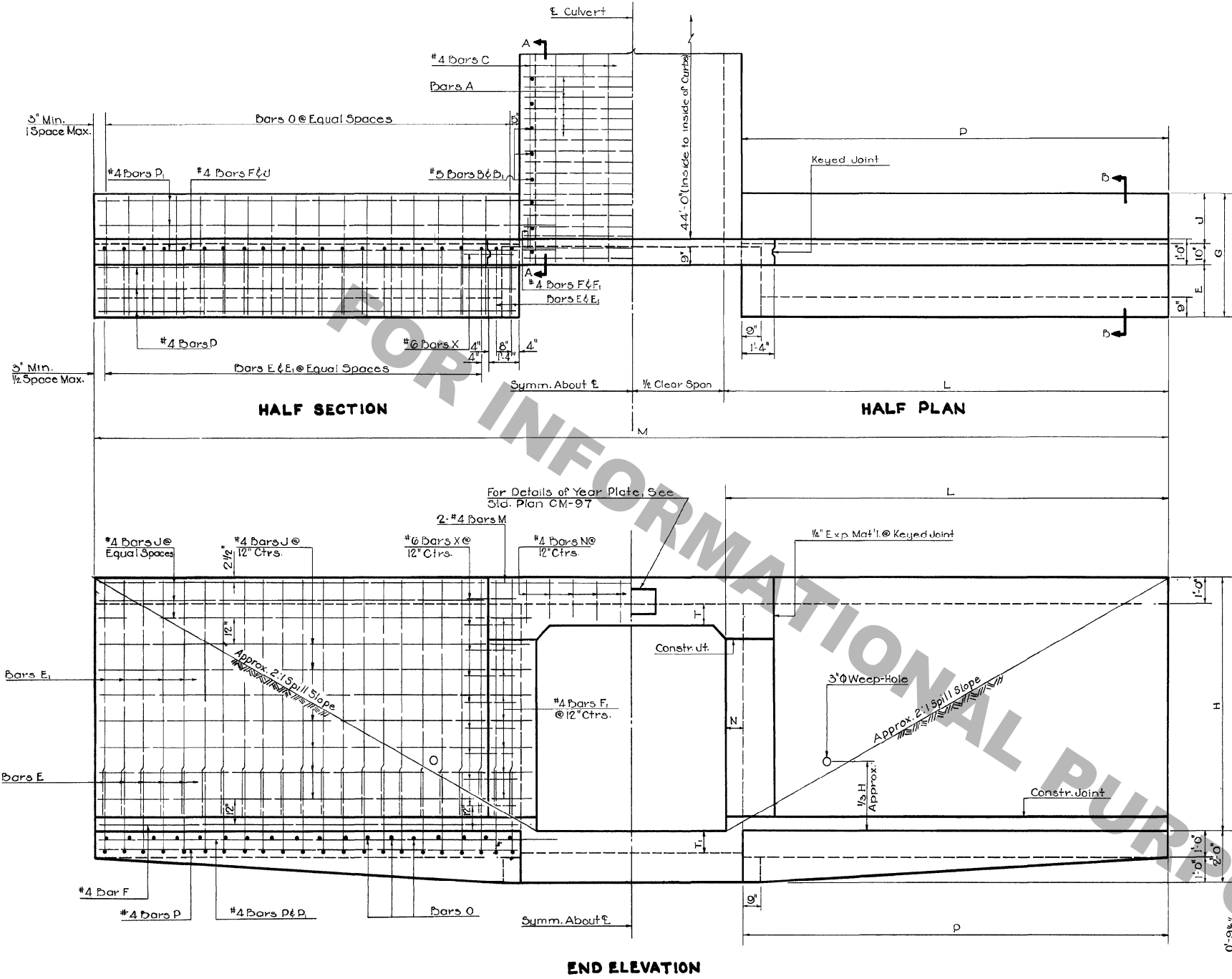


DIMENSIONS																			BILL OF REINFORCING STEEL FOR 44'-0" CULVERT																																				QUANTITIES				OPENING	
OPENINGS		MAX. FILL		BARREL					WINGS & CURBS									BARREL REINFORCEMENT										WINGS AND CURBS REINFORCEMENT																PER LIN. FT. OF BARREL		44'-0" CULVERT														
CLEAR SPAN	HEIGHT	AREA	SLAB	WALL	N	T	T ₁	O	Y	E	J	G	H	L	P	M	BARS A				#5 BARS D & D ₁				#4 BARS C		BARS E & E ₁				#4 BARS F		#4 BARS F ₁		#4 BARS J		#4 BARS M		#4 BARS N		BARS O		#4 BARS P		#4 BARS P ₁		#6 BARS X		STEEL	CONC.	STEEL	CONC.	CLEAR SPAN	CLEAR HEIGHT						
FT.	FT.	50 FT.	FT.	FT.	IN.	IN.	IN.	IN.	IN.	FT-IN.	FT-IN.	FT-IN.	FT-IN.	FT-IN.	FT-IN.	FT-IN.	SIZE	NO.	LENGTH	SPAC.	NO.	LENGTH	SPAC.	NO.	LENGTH	E	E ₁	NO.	LENGTH	E	E ₁	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	SIZE	LENGTH	SPAC.	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	FT.-IN.	LBS.	CU.YDS.	LBS.	CU.YDS.	FT.	FT.				
7	7	49	13	6	7	9	9	1 3/4	1 3/8	1-11	1-8	4-5	8-9	16-8	16-1	40-4	*6	220	9-2 1/2	5	92	2-11	7-1	12	30	47-2	*4	*4	80	5-1	8-1	10	4	17-7	28	2-8	36	14-5	4	10-3	16	5-1	64	*4	4-0	12	16	15-9	12	17-5	32	2-0	107.29	0.7654	6752	65.82	7	7		
6	7	56	13	6	7	10	10	1 3/4	1 7/8	1-11	1-8	4-5	8-10	16-8	16-1	41-4	*6	220	10-2 1/2	5	92	3-0	7-2	12	32	47-2	*4	*4	80	5-1	8-2	10	4	17-7	28	2-8	36	14-5	4	11-3	20	5-3	64	*4	4-0	12	16	15-9	12	17-5	32	2-0	116.18	0.8776	71.84	71.25	8	7		
	8	64	12	5	8	10	10	1 3/4	1 7/8	2-0	2-0	4-10	9-10	18-7	17-11	45-2	*6	220	10-4 1/2	5	96	3-0	8-2	11 1/2	34	47-2	*5	*4	88	5-6	9-2	10	4	19-6	32	2-9	40	16-3	4	11-5	20	5-3	72	*4	4-5	12	16	17-7	12	19-3	36	2-0	121.82	0.9805	7970	82.68	9	8		
9	7	63	11	8	8	10 1/2	10 1/2	1 3/4	1 5/8	1-11	1-8	4-5	8-10 1/2	16-9	16-1	42-6	*7	184	11-7 1/2	6	92	3-0	7-2	12	34	47-2	*4	*4	80	5-1	8-2	10	4	17-8	28	2-9	36	14-5	4	12-5	22	5-4	64	*4	4-0	12	16	15-9	12	17-5	32	2-0	138.97	1.0247	8259	78.24	10	8		
	8	72	11	5	8	10 1/2	10 1/2	1 3/4	1 5/8	2-0	2-0	4-10	9-10 1/2	18-1	18-5	47-2	*7	184	11-7 1/2	6	96	3-0	8-2	11 1/2	36	47-2	*5	*4	84	5-6	9-2	11	4	20-0	32	2-9	40	16-9	4	12-5	22	5-4	72	*4	4-5	12	16	18-1	12	19-9	36	2-0	143.40	1.0741	8964	86.20	9	8		
10	9	81	10	5	9	10 1/2	10 1/2	1 3/4	1 5/8	2-2	2-4	5-4	10-10 1/2	20-9	20-0	50-6	*7	184	11-9 1/2	6	106	3-0	9-2	10 1/2	38	47-2	*5	*4	120	5-8	10-2	8	4	21-8	36	2-10	44	18-4	4	12-7	22	5-4	96	*4	4-11	10	16	19-8	12	21-4	40	2-0	150.80	1.1898	10095	100.71	9	8		
	7	70	6	6	8	11	11	1 3/4	1 5/8	1-11	1-8	4-5	8-11	16-10	16-2	43-8	*7	184	12-7 1/2	6	92	3-1	7-3	12	36	47-2	*4	*4	80	5-1	8-3	10	4	17-9	28	2-9	36	14-6	4	13-5	24	5-5	64	*4	4-0	12	16	15-10	12	17-6	32	2-0	148.83	1.1245	8733	83.18	7	7		
	8	80	6	6	9	11	11	1 3/4	1 5/8	2-0	2-0	4-10	8-11	18-2	18-5	48-4	*7	184	12-9 1/2	6	92	3-1	8-3	12	38	47-2	*5	*4	84	5-6	9-3	11	4	20-1	32	2-10	40	16-5	4	13-7	24	5-5	72	*4	4-5	12	16	18-1	12	19-3	36	2-0	153.61	1.2346	9454	93.82	8	8		
	9	90	6	6	9	11	11	1 3/4	1 5/8	2-2	2-4	5-4	10-11	20-9	20-0	51-6	*7	184	12-9 1/2	6	118	3-1	9-3	9 1/2	40	47-2	*5	*4	120	5-8	10-3	8	4	21-8	36	2-10	44	18-4	4	13-7	24	5-5	96	*4	4-11	10	16	19-8	12	21-4	40	2-0	163.80	1.2901	10725	105.53	9	9		
10	100	6	6	10	11	11	1 3/4	1 5/8	2-4	2-8	5-10	11-11	22-8	21-10	55-4	*7	184	12-11 1/2	6	130	3-1	10-3	8 1/2	42	47-2	*6	*5	124	6-1	11-3	8 1/2	4	23-7	40	2-11	48	20-2	4	13-9	24	5-5	100	*5	5-5	10 1/2	16	21-6	12	23-2	44	2-0	173.27	1.4187	12,617	119.86	10	10			

* Includes 1'-1 1/2" Lap Splice

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

APPROVED BY:
Dampsey D. White
CHIEF ENGINEER DATE 1-5-78

REVISIONS		REVISIONS	
1-5-78	Rev. Weep Hole Note	W.T.J.	4-9-82
1-28-79	Rev. Slope Intercept	W.T.J.	8-10-82
DATE	DESCRIPTION	BY	DESCRIPTION

General Notes:
Construction Specifications: Latest Approved La. Dept. of Highways Standard Specifications
Design Specifications: A.A.S.H.O. 1961 as Amended by Int. Spec. 1964.
Live Load HS 20-44, or Military Loading, whichever is Greater.
All Concrete to be Class "A"
All Exposed Corners to have 3/4" Chamfers, unless Otherwise Noted.
Reinforcement Shall be Billet-Steel A.S.T.M. A 615 or Rail-Steel A.S.T.M. A 616 or Axle-Steel A.S.T.M. A 617
For Detail of Joints, see Std. Plan CM-97.
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.

STANDARD PLAN
REINF. CONCRETE BOX CULVERTS
STRAIGHT WINGS 90° CROSSING
2:1 SPILL SLOPE
7' THRU 10' CLEAR SPANS & CLEAR HEIGHTS

DESIGNED *2 a. White* CHECKED *W. Maxum*
DETAILED *H. H. Allen* CHECKED *M. Foster*
TRACED *W. Allen* CHECKED *H. Allen*

IN CHARGE OF