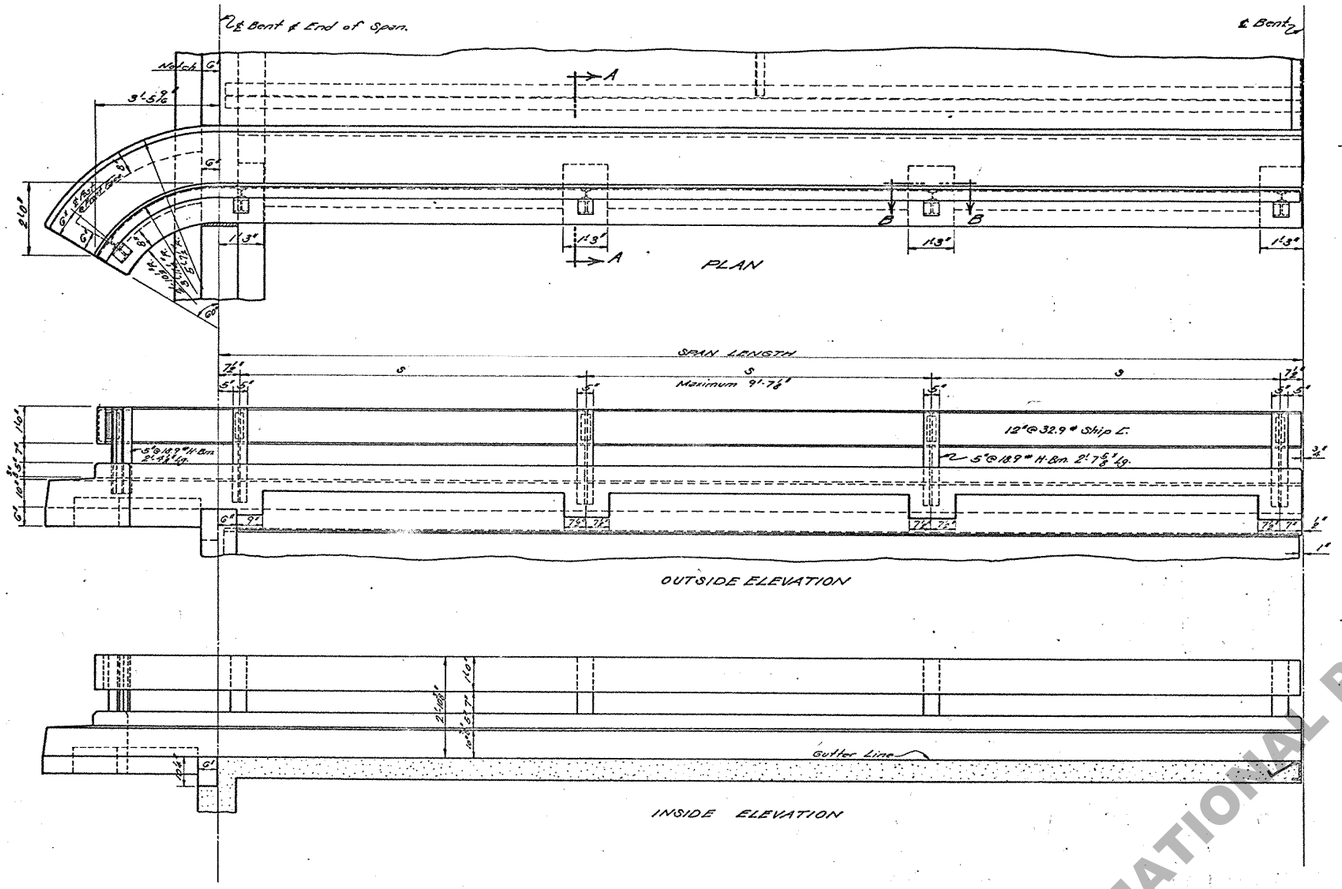

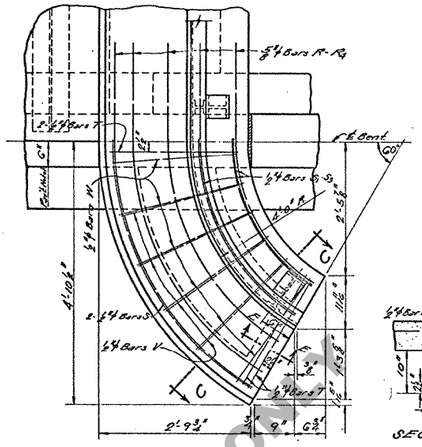

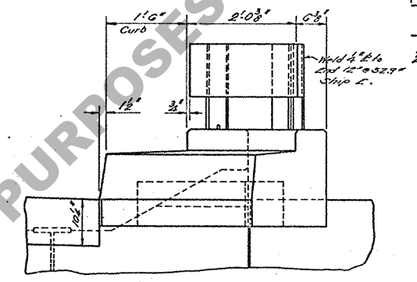

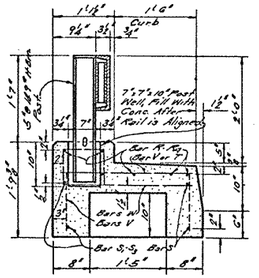

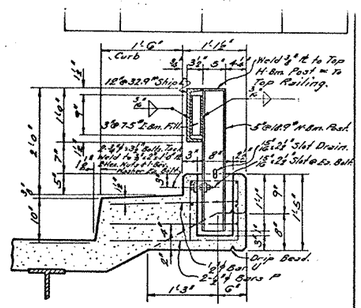

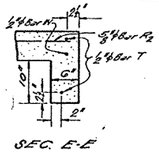

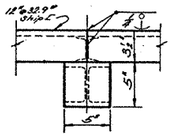

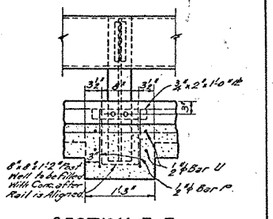

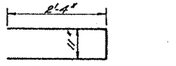

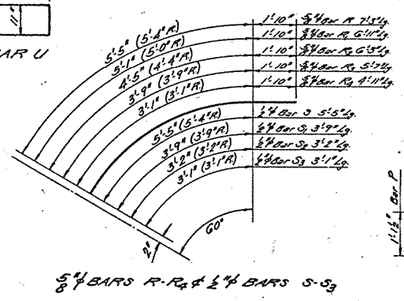

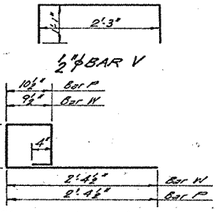

FOR INFORMATIONAL PURPOSES ONLY

QUANTITIES FOR STD. PLAN S-C

SPAN LENGTH	NO POSTS	S FT IN	END SPAN ⊗ REINF. STEEL LBS.	END SPAN ⊗ CLASS "A" CONC. CU YDS.	END SPAN ⊗ FAB. CARB. STEEL LBS.	INTERMEDIATE SPAN REINF. STEEL LBS.	INTERMEDIATE SPAN CLASS "A" CONC. CU YDS.	INTERMEDIATE SPAN FAB. CARB. STEEL LBS.
16	3	7'-4½	260	1.06	1827	92	0.30	1441
18	3	8'-4½	260	1.06	1958	92	0.30	1572
20	3	9'-4½	260	1.06	2090	92	0.30	1704
22	4	6'-11	290	1.13	2353	122	0.27	1967
24	4	7'-7	290	1.13	2485	122	0.27	2099
26	4	8'-3	290	1.13	2617	122	0.27	2231
28	4	8'-11	290	1.13	2748	122	0.27	2362
30	4	9'-7	290	1.13	2880	122	0.27	2494
32	5	7'-8½	321	1.20	3143	153	0.34	2757
34	5	8'-2½	321	1.20	3275	153	0.34	2889
36	5	8'-8½	321	1.20	3407	153	0.34	3021
38	5	9'-2½	321	1.20	3538	153	0.34	3152
40	6	7'-9	351	1.27	3802	183	0.41	3416
42	6	8'-1½	351	1.27	3933	183	0.41	3547
44	6	8'-6⅝	351	1.27	4065	183	0.41	3679
46	6	8'-11½	351	1.27	4197	183	0.41	3811
48	6	9'-4½	351	1.27	4328	183	0.41	3942
50	7	8'-1½	382	1.34	4592	214	0.48	4206
52	7	8'-5½	382	1.34	4723	214	0.48	4337
54	7	8'-9½	382	1.34	4855	214	0.48	4469
56	7	9'-1½	382	1.34	4987	214	0.48	4601
58	7	9'-5½	382	1.34	5118	214	0.48	4732
60	8	8'-4⅞	412	1.41	5382	244	0.55	4996
62	8	8'-8⅞	412	1.41	5513	244	0.55	5127
64	8	8'-11⅞	412	1.41	5645	244	0.55	5259
66	8	9'-3	412	1.41	5777	244	0.55	5391
68	8	9'-6⅞	412	1.41	5908	244	0.55	5522
70	9	8'-7½	443	1.48	6172	275	0.62	5786
72	9	8'-10½	443	1.48	6303	275	0.62	5917
74	9	9'-1½	443	1.48	6435	275	0.62	6049
76	9	9'-4½	443	1.48	6567	275	0.62	6181
78	9	9'-7½	443	1.48	6698	275	0.62	6312
80	10	8'-9	473	1.54	6962	305	0.69	6576

⊗ Includes Bridge End Flares.

BILL OF MATERIAL FOR ONE BRIDGE END FLARE

BAR	No	SIZE	UNIT LENGTH	TOTAL LENGTH	BAR	No	SIZE	UNIT LENGTH	TOTAL LENGTH
R	1	⅝"ϕ	7'-3"	7'-3"	S_2	1	½"ϕ	3'-2"	3'-2"
R_1	1	"	6'-11"	6'-11"	S_3	1	"	3'-1"	3'-1"
R_2	1	"	6'-3"	6'-3"	T	4	"	2'-5"	9'-8"
R_3	1	"	5'-7"	5'-7"	V	4	"	4'-5"	17'-8"
R_4	1	"	4'-11"	4'-11"	N	6	"	4'-11"	29'-6"
TOTAL ⅝"ϕ BARS 30 @ 11.4 = 342 LBS.									
S	2	½"ϕ	5'-5"	10'-10"					
S_1	1	"	3'-9"	3'-9"	TOTAL ½"ϕ BARS 77 @ .852 = 65 LBS.				
TOTAL REINFORCING STEEL									84 LBS.
TOTAL CLASS "A" CONCRETE									0.44 CU YDS.
TOTAL FABRICATED CARBON STEEL									193 LBS.

GENERAL NOTES:
Construction Specs: latest Approved La. Hwy. Dept. Std. Specs.
Design Specifications: A.A.S.H.O. 1941.
All Concrete to be Class "A".
All Structural Steel to be Fabricated Carbon.
Dimensions to Reinforcing Steel are to Bar Centers.
Exposed Concrete Corners to have ¾" Chamfer.
No Paint Will be Required on Portion of Posts Imbedded in Concrete.
Post Wells to be Filled with Concrete after Rail is Aligned.
Railing Splice not Permitted in Spans 50' and less in length.
Welding Specifications in Accordance with American Welding Society for Welded Highway & Railway Bridges.

STANDARD PLAN
TYPE "E" HANDRAIL AND BRIDGE END FLARE
TO BE USED WITH 1'-6" CURBS

DATED June 1945

STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS

DESIGNED W.P.H. Smith | DETAILED W.H. Hughes | TRACED Nasser
CHECKED Hoey | CHECKED Nasser | CHECKED W.P.H. Smith
IN CHARGE OF J.A. Quinn — HEAD BRIDGE DRAFTSMAN

DATE	DESCRIPTION	BY
1-46	Gen. Notes	

REVISIONS

C-M-107