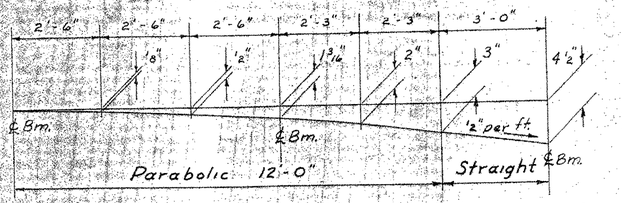
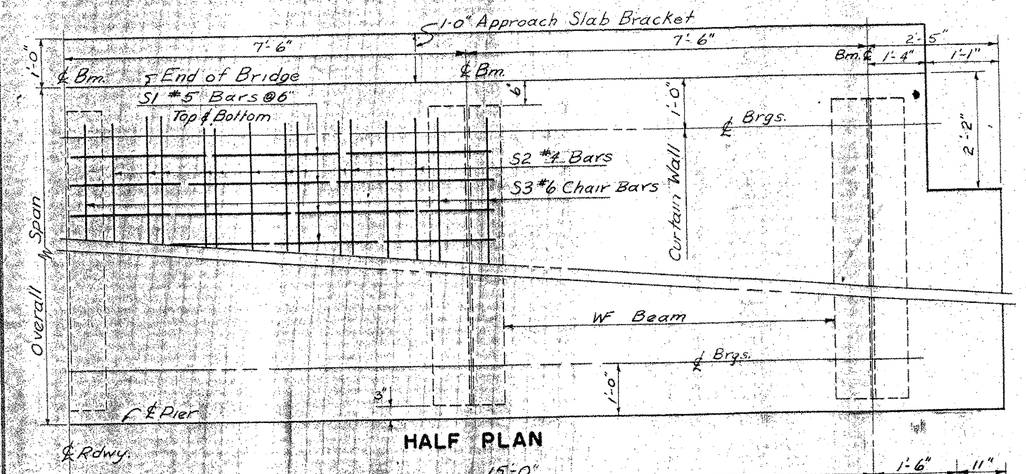
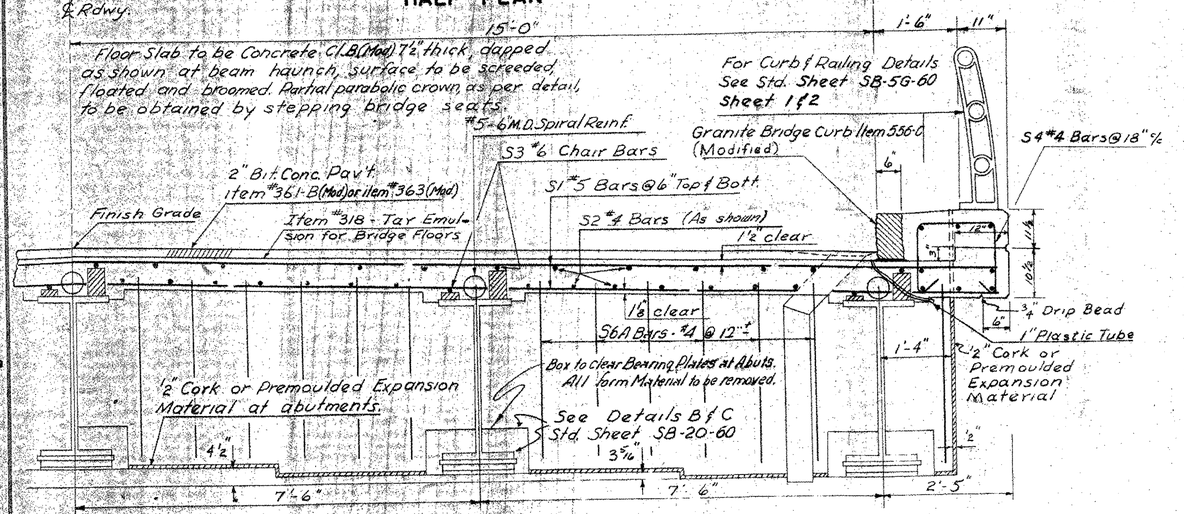


DETAIL OF PARTIAL PARABOLIC CROWN OF SLAB



HALF PLAN



TYPICAL HALF SECTION

TABLE OF QUANTITIES FOR SINGLE (SQUARE) SPAN

Span, Out to Out	99-0	94-0	89-0	84-0	79-0	74-0	69-0	64-0	59-0	54-0	49-0	44-0	39-0	34-0
Span, ℄ to ℄ Brngs.	97-0	92-0	87-0	82-0	77-0	72-0	67-0	62-0	57-0	52-0	47-0	42-0	37-0	32-0
Length of Bms.	98-0	93-0	88-0	83-0	78-0	73-0	68-0	63-0	58-0	53-0	48-0	43-0	38-0	33-0
Size WF Beam	36WF300	36WF300	36WF300	36WF245	36WF194	36WF170	36WF160	36WF150	36WF150	36WF150	36WF150	36WF150	33WF130	30WF116
Lgth. & Size Bot. Cover ⅊	66'-9" lg. 18" x 1 3/8"	59'-8" lg. 18" x 1"	52'-8" lg. 14" x 1"	51'-10" lg. 14" x 1"	54'-0" lg. 14" x 1 1/8"	51'-9" lg. 14" x 1"	46'-3" lg. 13" x 7/8"	39'-6" lg. 10" x 7/8"	32'-6" lg. 10" x 1/2"	23'-0" lg. 9" x 5/16"	—	—	—	—
" " " Top " "	63'-6" lg. 12" x 1/2"	—	—	—	—	—	—	—	—	—	—	—	—	—
Dead Load Deflection	3"	2 3/4"	2 3/8"	2 1/4	1 7/8"	1 1/2"	1 1/4"	1"	7/8"	5/8"	1/2"	3/8"	1/4"	1/4"
Dia. of Spiral Bars	—	—	—	—	—	—	5/8"	—	—	—	—	Non	Composite	
Mean Dia. of Spiral	—	—	—	—	—	—	6"	—	—	—	—	"		
Spiral Pitch 0'-10' from Brng.	Double @ 5 1/2	Double @ 5 1/2	Double @ 6"	Double @ 5 1/2	Double @ 5"	Double @ 5"	Double @ 5"	Double @ 5"	Double @ 5 1/2	Double @ 5 1/2	Double @ 5 1/2	"	"	
" " 10'-20' or ℄ Span	Double @ 6 1/2	Double @ 6 1/2	Double @ 7"	Double @ 6 1/2	Double @ 6"	Double @ 6 1/2	Double @ 6 1/2	Double @ 6 1/2	Double @ 7"	Double @ 7 1/2	Double @ 8"	"	"	
" " 20'-30' or ℄ Span	4 1/2"	4"	4 1/2"	4"	4 1/2"	4 1/2"	4 1/2"	5"	5 1/2"	6"	6 1/2"	"	"	
" " 30'-40' or ℄ Span	5 1/2"	5 1/2"	5 1/2"	5 1/2"	6"	6"	7"	7 1/2"	—	—	—	"	"	
" " 40' & Span	7"	7"	8"	8"	—	—	—	—	—	—	—	"	"	
Length of 3/4" ⌀ Studs (Alternate to Spiral)	(2 Studs required per pitch. 6 1/2" long unless otherwise specified on the plans)											Non	Composite	
Tot. Struct. Steel (1 span) (lbs.)	192,860	169,900	156,410	123,370	99,000	82,950	69,500	59,080	52,070	46,560	41,610	37,780	28,150	22,190
Reinforcing Bars ⅊ S1	396	376	356	336	316	296	276	256	236	216	196	176	156	136
" " ~S2	192	192	192	192	192	192	192	128	128	128	128	128	128	64
" " ~S3	30	30	30	30	30	30	30	20	20	20	20	20	20	10
" " ~S4	128	120	114	108	100	94	88	80	74	68	60	54	48	40
" " ~S5	16	16	16	16	16	16	16	16	16	16	16	16	16	16
" " ~S6A	52	52	52	52	52	52	52	52	52	52	52	52	52	52
" " ~S7	44	44	44	44	44	44	44	44	44	44	44	44	44	44
Tot. Weight - Reinf. Bars (lbs.)	21,370	20,330	19,320	18,480	17,450	16,440	15,400	14,220	13,190	12,170	11,140	10,120	9,070	7,900
Approx. Wt Spiral Reinf. (lbs.)	2,550	2,520	2,280	2,370	2,320	2,190	2,090	1,960	1690	1550	1430	Non	Composite	
Tot. Cu Yds. Conc. Class B(Mod)(Cu yds)	116	111	106	101	95	90	85	79	73	68	63	58	51	45
Tot. Wt. Bitum. Conc. Pav't.(Mod.) (Tons)	42	40	38	36	34	32	29	27	25	23	21	19	17	15
Tar Emulsion for Bridge Floors (Gals.)	132	125	119	112	105	99	92	85	79	72	65	59	52	45
Approx. Quantity 3/4" x 6 1/2" Studs	3000	2900	2600	2700	2700	2500	2400	2250	1990	1810	1660	Non	Composite	

REINFORCING STEEL SCHEDULE

S1-#5 34'-4" Straight. S5-#5 32'-2" Straight.

Span	S2-#4 Str. Length	S3-#6 Str. Length	S6A-#4 B & D	S6A-#4 Total Length	S4-#4	S6A-#4
34	33'-6"	33'-6"	2'-6"	6'-6"	T.L. = 5'-3" B = 1'-6" D = 1'-6" C = 1'-5"	T.L. Varies A=5" G=5" H=3"
39	20'-3"	20'-6"	2'-9"	7'-0"		
44	22'-9"	23'-0"	3'-0"	7'-6"		
49	25'-3"	25'-6"	3'-0"	7'-6"		
54	27'-9"	28'-0"	3'-0"	7'-6"		
59	30'-3"	30'-6"	3'-0"	7'-6"		
64	32'-9"	33'-0"	3'-0"	7'-6"		
69	24'-3"	24'-6"	3'-2"	7'-10"		
74	26'-0"	26'-3"	3'-2"	7'-10"	S7-#6	S6P-#5
79	27'-6"	28'-0"	3'-3"	8'-0"	T.L. = 3'-0" B = 1'-8" J = 6" A = 8" G = 8"	T.L. = 4'-2" B = 2'-6" C = 8" D = 1'-0"
84	29'-3"	29'-6"	3'-3"	8'-0"		
89	31'-0"	31'-3"	3'-3"	8'-0"		
94	32'-6"	33'-0"	3'-4"	8'-2"		
99	34'-3"	34'-6"	3'-4"	8'-2"		

Revisions & Corrections Paused July 1962

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Traced By: R.S.H. June 1960
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Correct: 13 July 1960
Bridge Engineer
Approved: 13 July 1960
Chief Engineer

TYPICAL SECTION, PLAN VIEW, & QUANTITIES
30 FOOT ROADWAY WF BEAM BRIDGES

34-44 NON COMPOSITE, 49-99 COMPOSITE

FOR ADDITIONAL DETAILS SEE STANDARD SCB-D-60

RICHMOND
IM 089(38) - BR 56 N&S
This sheet for information only.
Sheet 41 of 43

DEPARTMENT OF HIGHWAYS
STANDARD STRUCTURES

SCB-30-60