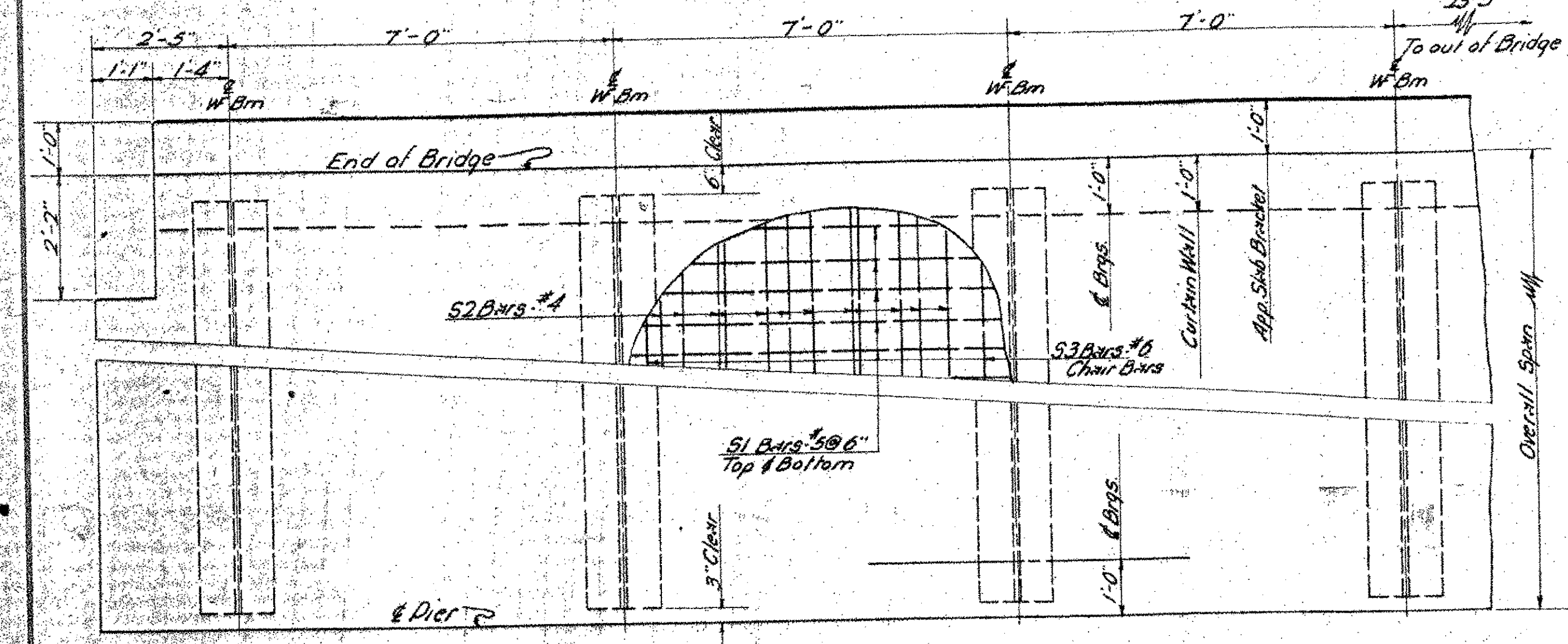


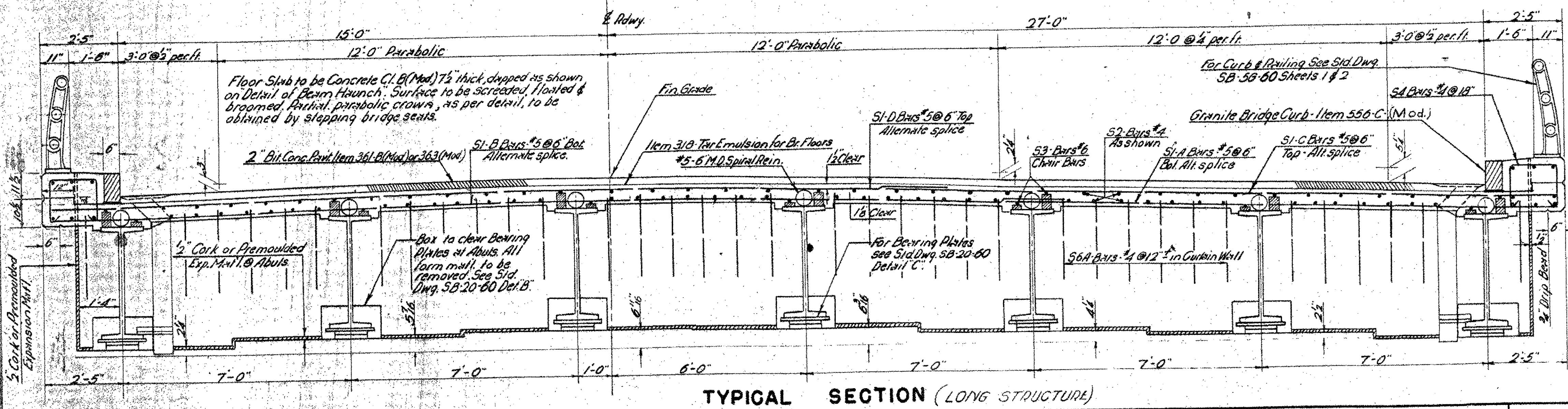
DETAIL OF PARTIAL PARABOLIC CROWN OF SLAB



PARTIAL PLAN

TABLE OF QUANTITIES FOR SINGLE (SQUARE) SPAN

Span - Out to Out	34'-0"	39'-0"	44'-0"	49'-0"	54'-0"	59'-0"	64'-0"	69'-0"	74'-0"	79'-0"	84'-0"	89'-0"	94'-0"	99'-0"
Span - & to & Bearings	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 Beams	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 Beams	36WF300	36WF300	36WF300	36WF245	36WF194	36WF170	36WF160	36WF150	36WF150	36WF150	36WF150	36WF150	36WF150	33WF130
Lqth & Size Bot Cover Pl	63-8 1/2" x 12-1/2"	58-8 1/2" x 18-1/2"	53-8 1/2" x 14-1/2"	48-8 1/2" x 14-1/2"	43-8 1/2" x 14-1/2"	38-8 1/2" x 14-1/2"	33-8 1/2" x 14-1/2"	28-8 1/2" x 14-1/2"	23-8 1/2" x 14-1/2"	18-8 1/2" x 14-1/2"	13-8 1/2" x 14-1/2"	8-8 1/2" x 14-1/2"	3-8 1/2" x 14-1/2"	3-8 1/2" x 14-1/2"
Lqth & Size Top Cover Pl	63-8 1/2" x 12-1/2"	58-8 1/2" x 18-1/2"	53-8 1/2" x 14-1/2"	48-8 1/2" x 14-1/2"	43-8 1/2" x 14-1/2"	38-8 1/2" x 14-1/2"	33-8 1/2" x 14-1/2"	28-8 1/2" x 14-1/2"	23-8 1/2" x 14-1/2"	18-8 1/2" x 14-1/2"	13-8 1/2" x 14-1/2"	8-8 1/2" x 14-1/2"	3-8 1/2" x 14-1/2"	3-8 1/2" x 14-1/2"
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"	1/2"	1/2"	1/2"
Diameter of Spiral Bars	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"	1/2"	1/2"	1/2"
Mean Diameter of Spiral	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"	1/2"	1/2"	1/2"
Spiral Pitch 0'-10" From Brng	Double @ 5"	Double @ 5 1/2"	Double @ 6"	Double @ 6 1/2"	Double @ 7"	Double @ 7 1/2"	Double @ 8"	Double @ 8 1/2"	Double @ 9"	Double @ 9 1/2"	Double @ 10"	Double @ 10 1/2"	Double @ 11"	Double @ 11 1/2"
10'-20" or 2 Span	Double @ 6 1/2"	Double @ 6 1/2"	Double @ 7"	Double @ 7 1/2"	Double @ 8"	Double @ 8 1/2"	Double @ 9"	Double @ 9 1/2"	Double @ 10"	Double @ 10 1/2"	Double @ 11"	Double @ 11 1/2"	Double @ 12"	Double @ 12 1/2"
20'-30"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
30'-40"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"
40'-& Span	7"	7"	7"	7"	7"	7"	7"	7"	7"	7"	7"	7"	7"	7"
Lqth of 3/4" Studs (Alt to Spirals)	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"
Total Struct Steel (1 Span) (lbs)	269,740	237,590	218,700	172,520	138,420	115,910	97,140	82,550	72,740	65,010	58,080	52,730	39,290	30,930
Reinforcing Bars - S1-A	198	188	178	168	158	148	138	128	118	108	98	88	78	68
S1-B	198	188	178	168	158	148	138	128	118	108	98	88	78	68
S1-C	198	188	178	168	158	148	138	128	118	108	98	88	78	68
S1-D	198	188	178	168	158	148	138	128	118	108	98	88	78	68
S2	264	264	264	264	264	264	264	264	264	264	264	264	264	264
S3	42	42	42	42	42	42	42	42	42	42	42	42	42	42
S4	128	122	114	108	102	94	88	82	74	68	62	54	48	42
S5	32	32	32	32	32	32	32	32	32	32	32	32	32	32
S6A	76	76	76	76	76	76	76	76	76	76	76	76	76	76
S7	62	62	62	62	62	62	62	62	62	62	62	62	62	62
Total Weight Reinf. Bars (lbs)	30,140	28,710	27,290	25,840	24,400	22,980	21,530	19,900	18,460	17,030	15,600	14,160	12,710	11,080
Approx Weight Spiral Reinf. (lbs)	3,570	3,530	3,180	3,310	3,250	3,070	2,920	2,740	2,600	2,360	2,170	Non Composite	Non Composite	Non Composite
Total Concrete Class B (Cu. yds)	151	144	137	131	124	117	110	103	95	89	82	75	67	59
Total Weight Bitum. Conc. Pavt. (Tons)	59	56	53	50	47	44	41	38	35	32	29	26	23	20
Tar Emulsion for Bridge Floors (Gals)	185	176	166	157	148	138	129	120	110	101	92	82	73	64
Approx Quantity 3/4" x 6 1/2" Studs	4,150	4,050	3,550	3,800	3,750	3,500	3,300	3,100	3,000	2,700	2,500	Non Composite	Non Composite	Non Composite



TYPICAL SECTION (LONG STRUCTURE)

REINFORCING STEEL SCHEDULE

Span	S1-A #5	S1-B #5	S1-C #5	S1-D #5	S2 #5	S3 #5	S4 #4	S5A #4	S6A #4
34	17'-3" Straight	31'-3" Straight	20'-9" Straight	27'-9" Straight	23'-3" Straight	33'-6" Straight	2'-6" B & D	2'-6" Total Length	T.L. 5'-3" B 1'-6" D 1'-6" C 1'-5"
39	20'-3" Straight	33'-6" Straight	23'-0" Straight	30'-0" Straight	25'-3" Straight	20'-6" Straight	2'-9" B & D	2'-9" Total Length	H-3 A 1'-5" B 1'-6" C 1'-5"
44	22'-9" Straight	33'-6" Straight	23'-0" Straight	30'-0" Straight	25'-3" Straight	20'-6" Straight	3'-0" B & D	3'-0" Total Length	H-3 A 1'-5" B 1'-6" C 1'-5"
49	25'-3" Straight	33'-6" Straight	23'-0" Straight	30'-0" Straight	25'-3" Straight	20'-6" Straight	3'-0" B & D	3'-0" Total Length	H-3 A 1'-5" B 1'-6" C 1'-5"
54	27'-9" Straight	33'-6" Straight	23'-0" Straight	30'-0" Straight	25'-3" Straight	20'-6" Straight	3'-0" B & D	3'-0" Total Length	H-3 A 1'-5" B 1'-6" C 1'-5"
59	30'-3" Straight	33'-6" Straight	23'-0" Straight	30'-0" Straight	25'-3" Straight	20'-6" Straight	3'-0" B & D	3'-0" Total Length	H-3 A 1'-5" B 1'-6" C 1'-5"
64	32'-9" Straight	33'-6" Straight	23'-0" Straight	30'-0" Straight	25'-3" Straight	20'-6" Straight	3'-0" B & D	3'-0" Total Length	H-3 A 1'-5" B 1'-6" C 1'-5"
69	34'-3" Straight	33'-6" Straight	23'-0" Straight	30'-0" Straight	25'-3" Straight	20'-6" Straight	3'-2" B & D	3'-2" Total Length	H-3 A 1'-5" B 1'-6" C 1'-5"
74	26'-0" Straight	26'-3" Straight	3'-2" Straight	7'-10" Straight	26'-0" Straight	26'-3" Straight	3'-2" B & D	3'-2" Total Length	T.L. 3'-0" B 1'-8" D 1'-6"
79	27'-6" Straight	26'-3" Straight	3'-3" Straight	8'-0" Straight	27'-6" Straight	26'-3" Straight	3'-3" B & D	3'-3" Total Length	T.L. 4'-2" B 1'-8" D 1'-6"
84	29'-3" Straight	26'-3" Straight	3'-3" Straight	8'-0" Straight	29'-3" Straight	26'-3" Straight	3'-3" B & D	3'-3" Total Length	T.L. 4'-2" B 1'-8" D 1'-6"
89	31'-0" Straight	26'-3" Straight	3'-3" Straight	8'-0" Straight	31'-0" Straight	26'-3" Straight	3'-3" B & D	3'-3" Total Length	T.L. 4'-2" B 1'-8" D 1'-6"
94	32'-6" Straight	26'-3" Straight	3'-4" Straight	8'-2" Straight	32'-6" Straight	26'-3" Straight	3'-4" B & D	3'-4" Total Length	T.L. 4'-2" B 1'-8" D 1'-6"
99	34'-3" Straight	26'-3" Straight	3'-4" Straight	8'-2" Straight	34'-3" Straight	26'-3" Straight	3'-4" B & D	3'-4" Total Length	T.L. 4'-2" B 1'-8" D 1'-6"

Revisions & Corrections
Revised July 1962

Drawn By: A.B.M. 6-17-60
 Traced By: A.B.M. 6-17-60
 Checked By: R.T.B. & R.S.H. July 1960
 Correct: 13 July 1960
 Approved: 13 July 1960
 Chief Engineer

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

**34-44 NON COMPOSITE, 49-99 COMPOSITE
FOR ADDITIONAL DETAILS SEE STANDARD SCB-D-60**

**DEPARTMENT OF HIGHWAYS
STANDARD STRUCTURES**

SCB-42-60

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