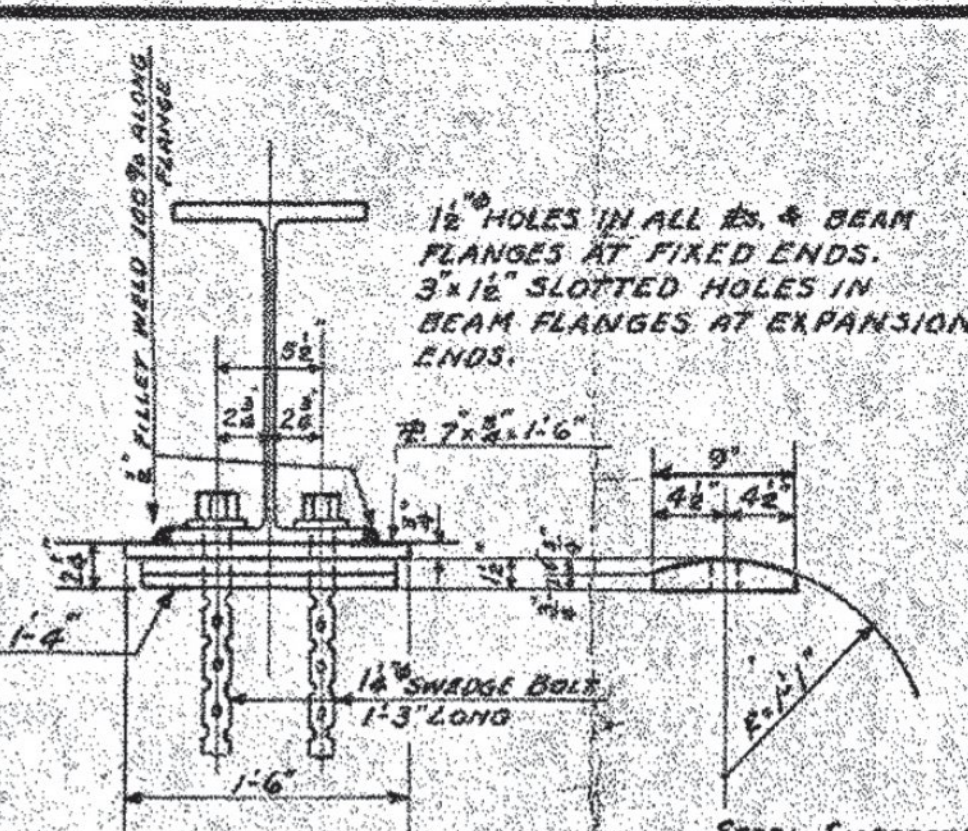
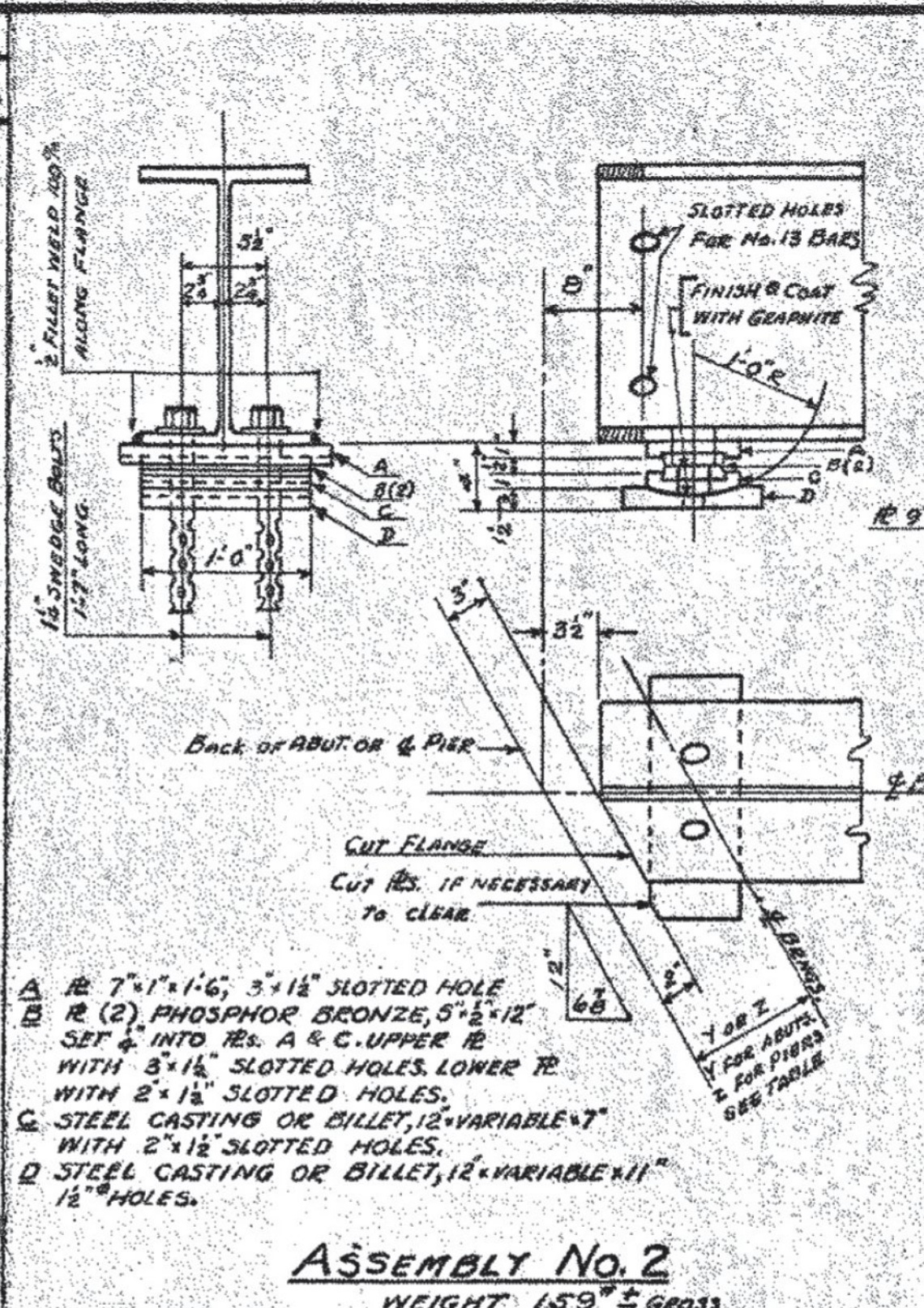
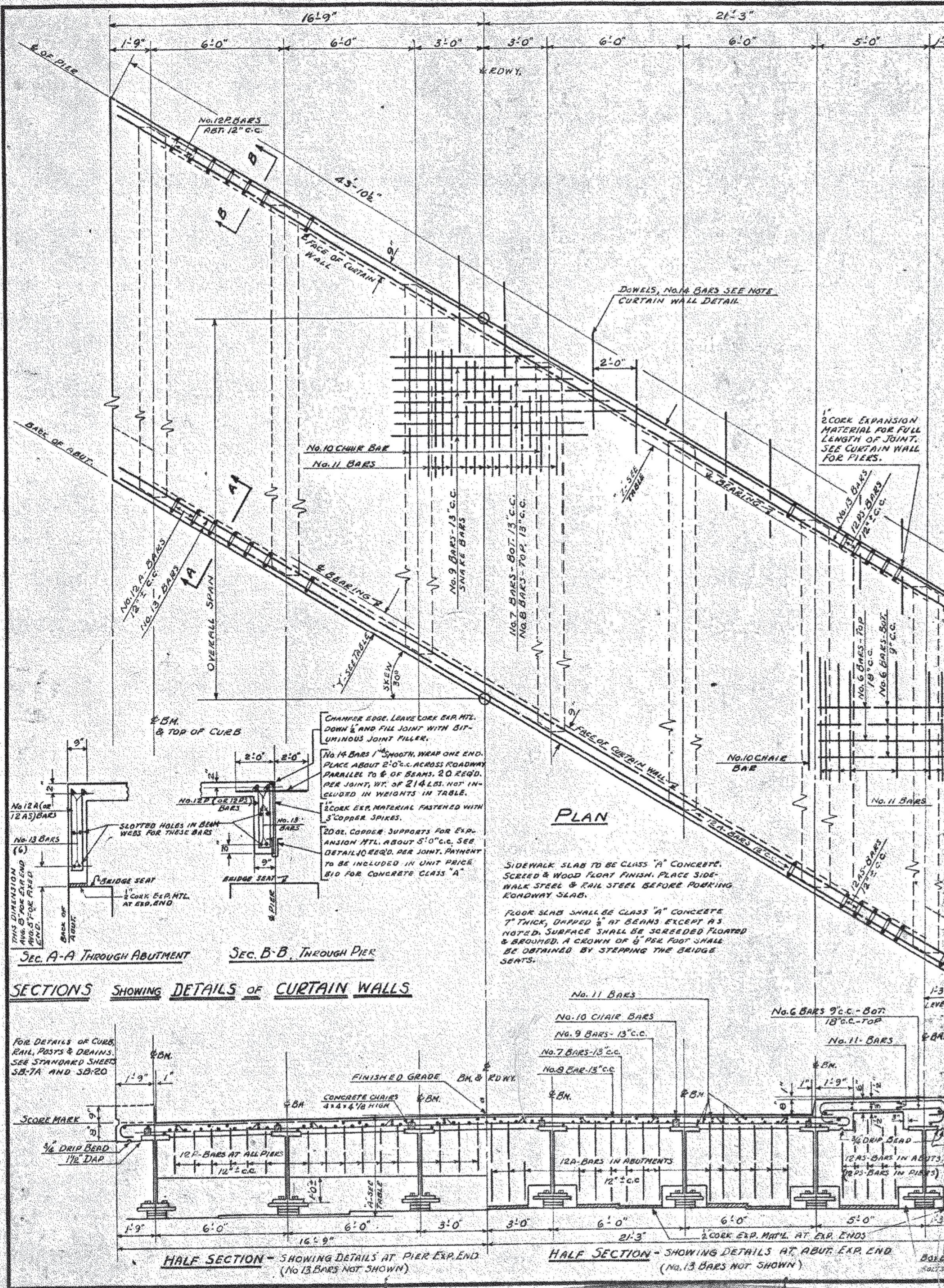


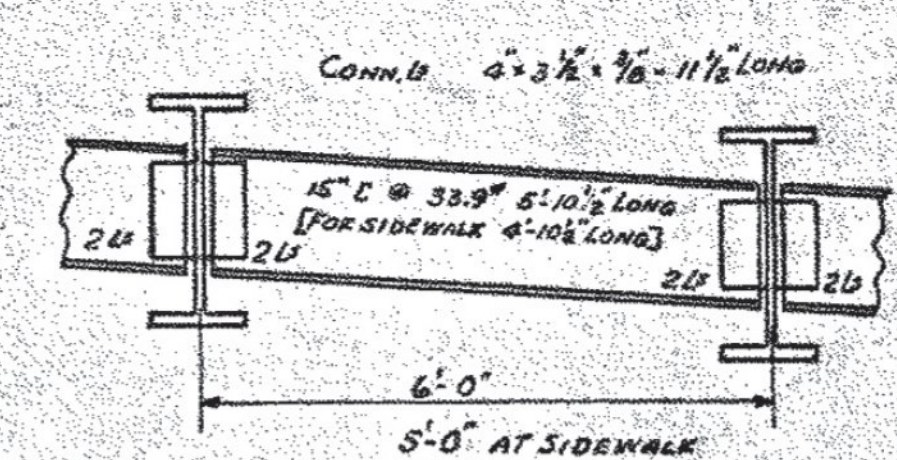


GENERAL NOTES

STEEL SUPERSTRUCTURE: TO INCLUDE 7 WF. BEAMS, 14 BEARING & ASSEMBLY AND INDICATED DIAPHRAGMS PER SPAN.
CAMBER: ALL STEEL BEAMS SHALL BE ROLLED TO A TRUE CIRCULAR CAMBER FOR THE FULL LENGTH OF THE BEAM, THE MIDDLE ORDINATE TO BE AS LISTED IN THE TABLE.
PAINT: ALL STRUCTURAL STEEL SHALL BE PAINTED AS SPECIFIED UNDER ITEM 43A-B OF PAMPHLET-E, STANDARD ROAD & BRIDGE SPECIFICATIONS, STATE OF VERMONT, 1936.
THE FINAL COAT OF FIELD PAINT SHALL BE BLACK UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
QUANTITIES: THIS SHEET DOES NOT INCLUDE QUANTITIES FOR RAILING, CURBS, AND POSTS.
REINFORCING: TRANSVERSE REINFORCING BARS SHALL BE PROVIDED AS FOR A SQUARE SPAN BARS. SHALL BE CUT IN FIELD TO FIT ONE SHAW END CUT OFF ENDS SHALL BE USED IN OPPOSITE SHAW END.
FOR LOCATION OF FIXED AND EXPANSION BEARINGS, SEE PLAN & PROFILE SHEET.
DRAINS: REFER TO STD. SHEET S-8000 DETAIL A.
DESIGN: ALL MATERIALS & CONSTRUCTION SHALL CONFORM TO THE STANDARD ROAD & BRIDGE SPECIFICATIONS, STATE OF VERMONT, 1936 & THE A.A.S.M.O. SPEC. FOR 1935 DESIGNED FOR H-15 LIVE LOADING. DL INCLUDES WEIGHT OF BEAMS, SLAB, 25' DRAINING, RAIL, S.D.-7A SIDEWALK L.L. OF 375' L.L. IMPACT ON THE TRUCK L.L. ONLY OF 23' 7 1/2" (FOR 34' SPAN ONLY).

BEARING PLATES

USE ASSEMBLY NO. 1 FOR BOTH ENDS OF SPAN 28' TO 69' INCLUSIVE.
" NO. 2 " FIXED ENDS ONLY OF SPANS OF 74' OR MORE.
" NO. 3 " EXPANSION ENDS OF SPANS OF 74' OR MORE.



DIAPHRAGM ASSEMBLY

SHOP CONNECTIONS MAY BE RIVETED OR 100% ELECTRIC WELDED. FIELD CONNECTIONS SHALL BE 100% ELECTRIC WELDED. 4 BOLTS 1/2" MAY BE USED AT ENDS FOR RECEPTION.

SPANS 28' THROUGH 43' REQUIRED, 1 SET DIAPHRAGMS (6 2)
49 " 69 " 2 SETS " (6 2)
74 " 84 " 3 " " (6 2)

DIAPHRAGMS SHALL BE DETAIL TO GO THROUGH POINTS MIDWAY BETWEEN REFERENCE POINTS (1/2, 1/3, OR 1/4 POINTS) ON ADJACENT BEAMS.

DETAILS OF REINFORCING BARS

BAR NO. 9-5/8" T.L. = 35'-10"

NO.	SPAN	LENGTH	AT ABUTMENTS	AT PIERS	NOTES	NO.	SPAN	LENGTH	AT ABUTMENTS	AT PIERS	NOTES
10	28	28	12A	12B	12C	13	28	28	12A	12B	12C
11	33	33	12A	12B	12C	14	33	33	12A	12B	12C
12	38	38	12A	12B	12C	15	38	38	12A	12B	12C
13	43	43	12A	12B	12C	16	43	43	12A	12B	12C
14	49	49	12A	12B	12C	17	49	49	12A	12B	12C
15	54	54	12A	12B	12C	18	54	54	12A	12B	12C
16	59	59	12A	12B	12C	19	59	59	12A	12B	12C
17	64	64	12A	12B	12C	20	64	64	12A	12B	12C
18	69	69	12A	12B	12C	21	69	69	12A	12B	12C
19	74	74	12A	12B	12C	22	74	74	12A	12B	12C
20	79	79	12A	12B	12C	23	79	79	12A	12B	12C
21	84	84	12A	12B	12C	24	84	84	12A	12B	12C

NO.	SPAN	LENGTH	AT ABUTMENTS	AT PIERS	NOTES	NO.	SPAN	LENGTH	AT ABUTMENTS	AT PIERS	NOTES
10	28	28	12A	12B	12C	13	28	28	12A	12B	12C
11	33	33	12A	12B	12C	14	33	33	12A	12B	12C
12	38	38	12A	12B	12C	15	38	38	12A	12B	12C
13	43	43	12A	12B	12C	16	43	43	12A	12B	12C
14	49	49	12A	12B	12C	17	49	49	12A	12B	12C
15	54	54	12A	12B	12C	18	54	54	12A	12B	12C
16	59	59	12A	12B	12C	19	59	59	12A	12B	12C
17	64	64	12A	12B	12C	20	64	64	12A	12B	12C
18	69	69	12A	12B	12C	21	69	69	12A	12B	12C
19	74	74	12A	12B	12C	22	74	74	12A	12B	12C
20	79	79	12A	12B	12C	23	79	79	12A	12B	12C
21	84	84	12A	12B	12C	24	84	84	12A	12B	12C

OVERALL SPAN	STRUCTURAL STEEL	REINFORCING STEEL SCHEDULE	CONCRETE CLASS																									
NO.	W.F. BEAM	DIM. A FIXED EXP.	LGTH. BEAM	DIM. X	DIM. Y	DIM. Z	CANOE	I/O REQD.	TOTAL WT. STEEL	NO.	6	7	8	9	10	11	12A	12B	13	TOT. WT. REIN. STEEL	NO.	8	6	4	2	1	0	YARDS
28																												
33																												
38																												
43																												
49																												
54																												
59																												
64																												
69																												
74																												
79																												
84	3/4 @ 260	3.91	4.05	83'-5"	2'-0"	1'-0"	10"	2'-4"	950	157,743	170	78	78	78	12	160	60	12	24	16,201								86-0

ESTIMATED QUANTITIES											
OVERALL SPAN	SIZE WF BEAM	DIM. A	DIM. B	DIM. C	DIM. D	DIM. E	DIM. F	DIM. G	DIM. H	DIM. I	DIM. J
28	36	36	36	36	36	36	36	36	36	36	36
33	42	42	42	42	42	42	42	42	42	42	42
38	48	48	48	48	48	48	48	48	48	48	48
43	54	54	54	54	54	54	54	54	54	54	54
49	60	60	60	60	60	60	60	60	60	60	60
54	66	66	66	66	66	66	66	66	66	66	66
59	72	72	72	72	72	72	72	72	72	72	72
64	78	78	78	78	78	78	78	78	78	78	78
69	84	84	84	84	84	84	84	84	84	84	84
74	90	90	90	90	90	90	90	90	90	90	90
79	96	96	96	96	96	96	96	96	96	96	96
84	102	102	102	102	102	102	102	102	102	102	102

QUANTITIES IN THIS TABLE ARE FOR SINGLE SPAN WITH 3 SIDEWALKS. FOR MULTIPLE SPAN STRUCTURES QUANTITIES OF REINFORCING STEEL & CONCRETE CLASS A VARY FROM THOSE LISTED.
QUANTITIES DO NOT INCLUDE REINFORCING STEEL & CONCRETE CLASS A IN APPROACH SLAB BRACKET WHERE USED. REFER TO S-8000 DETAIL Z.

PROJECT NAME: BENNINGTON
No. 30-30
SPANS: 3 @ 84'
30° SKEW
STANDARD I-BEAM BRIDGE
with reinforced concrete deck
30' ROADWAY WITH SIDEWALK
SPANS OF 28' TO 84' OVERALL

Designed by J.G.G. for 84' SPAN (JAN. 1, 1938)
Drawn by D.W.P. (FROM S-1024-30-53M)
Traced by D.W.P.
Checked by for 84' SPAN Details
Series S-1024-30-53M
Sheet of 75