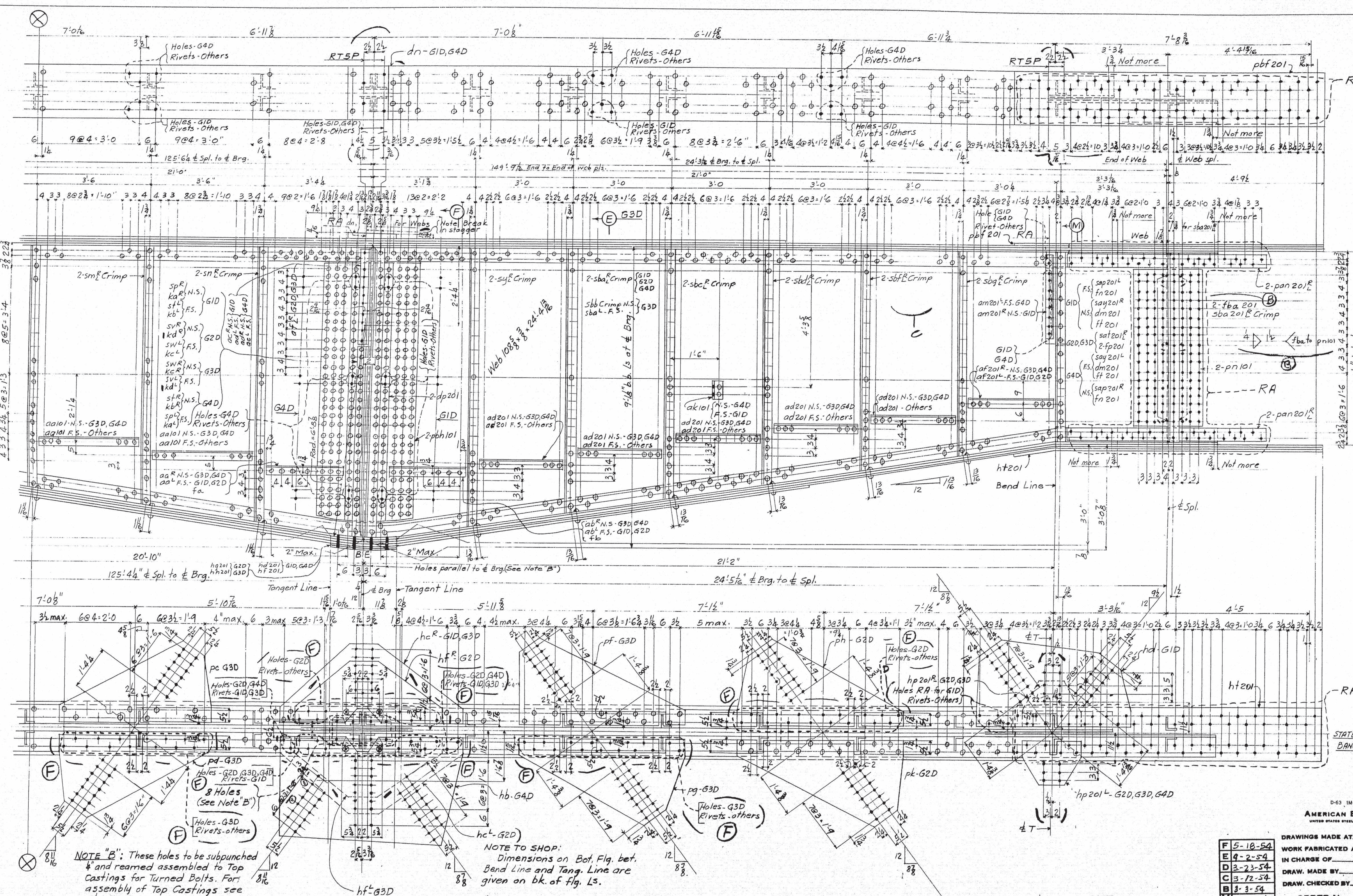




NOTE "B": These holes to be subpunched & reamed assembled to Top Castings for Turned Bolts. For assembly of Top Castings see Sh. E102

NOTE TO SHOP: Dimensions on Bot. Flg. bet. Bend Line and Tang. Line are given on bk. of Flg. Ls.

STATE OF MAINE
STATE HIGHWAY COMMISSION
DANFOR-BREWER BRIDGE
PENOBSCOT RIVER
BANGOR, MAINE

D-63 1M-8-51 PENCILTEX
AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY
DRAWINGS MADE AT TRENTON PLANT
WORK FABRICATED AT AMERIDGE PLANT
IN CHARGE OF MARKS
DRAW. MADE BY RNS DATE
DRAW. CHECKED BY FEL DATE 2-18-54
ORDER NO. Q4150 SHEET NO. 401BC

F 5-18-54	REVISIONS
E 9-2-54	
D 3-23-54	
C 3-12-54	
B 3-3-54	
A 2-22-54	

62-193



NOTE:

- 1) Specifications: Maine State Highway 200mm. RIV. G30-13 10
1945 and Special Provision. RIV. G30-13 10
- 2) Material: O.H. Steel A3T.M. A7-527 RIV. G40-1268
- 3) Rivets: 8" ϕ WELD G30-2
- 4) Holes: $\frac{3}{4}$ " ϕ Unless Noted PRINT G10-263
- 5) Workmanship: G20 252
G30 254
PRINT G40 263

Holes in material thicker than the diameter of the rivet shall be drilled..

Holes in main material, including holes at splices in bearing stiffeners, and splice plates to be subpunched or subdrilled $\frac{1}{4}$ " and reamed to size.

Holes marked RT to be subpunched $\frac{1}{4}$ " and reamed to size to a metal templet.

Holes marked RA to be subpunched or subdrilled $\frac{1}{4}$ " and reamed to size while connecting members are assembled to cambered position.

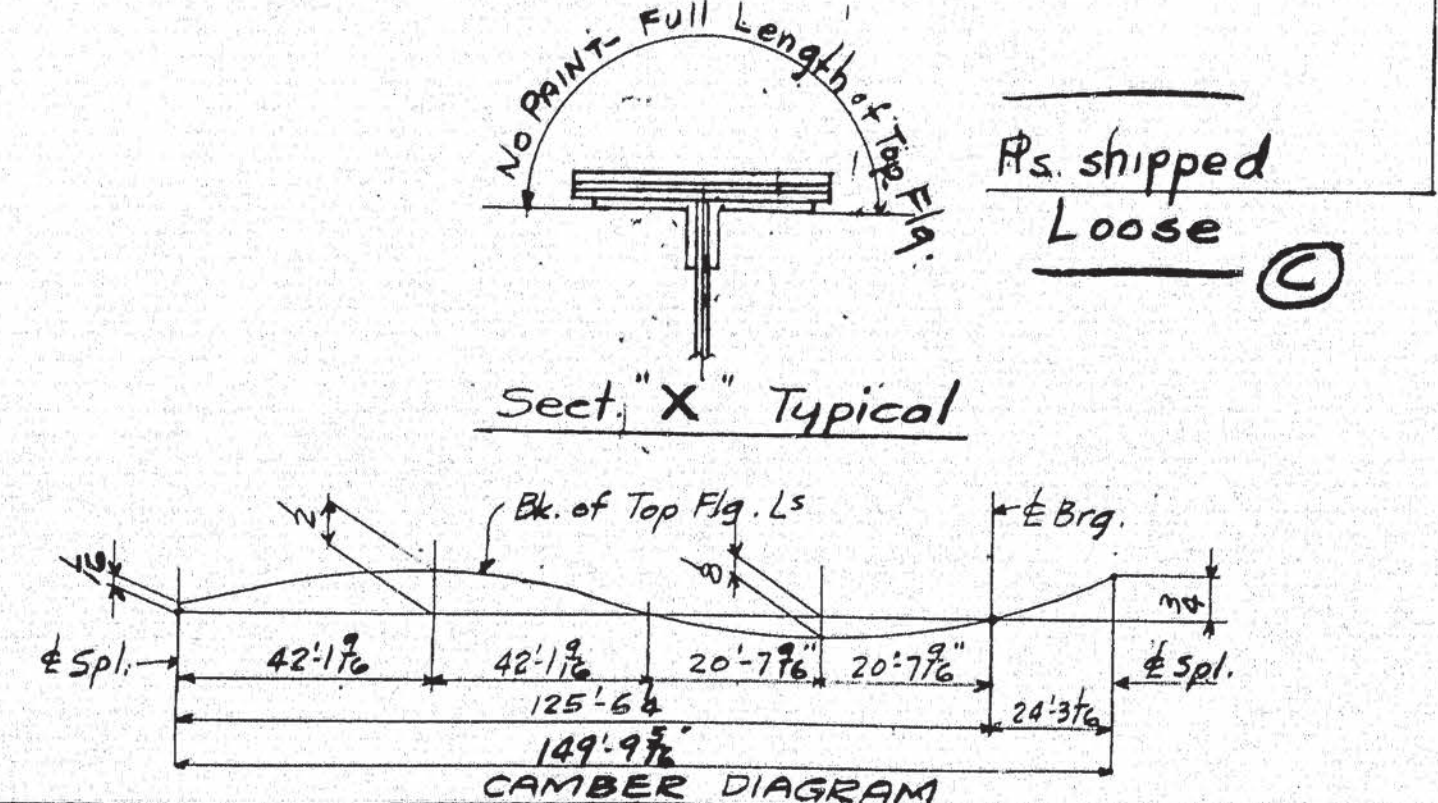
(See Sheet E102). Connecting members to be matchmarked.

Fillers and splice plates under stiffeners to fit within $\frac{1}{8}$ " of flange angles.

B.E. indicates bearing end of stiffeners.

PAINT: Yes, except as shown in Section "X"

SHOP CONTACT SURFACES: - No



DUCT														
68	2	L	6	4	3	5	102	cap201	L-GID R-G4D	1	35'-6	1044		71
69	2	L	6	4	3	5	102	cap201	R-GID R-G4D		35'-6	1044		72
70	4	L	5	32	7/8	5	102	cap201	G2D,G3D	1	40'-0	1045		101
71	8	L	5	32	7/8	5	101	sbaz201	Grimp	2	40'-0	1045		102
72	3	R	174	9/16	1	11/2			Pf201G3D				WT	LINE 8
73	3	R	174	5/16	1	11/2			Pf201G3D				WT	LINE 8
74	24	Pls	252	3/8	5	0	pn101		2	20'-1	1063		973	
75	8	Pls	20	7/8	14	3	pa201	UM	1	* 35'-381	1068		1089	
76	16	Pls	5	3/8	6	11/2	pw201	Chamfer					354	
77	16	Pls	5	3/8	5	11/2	pn201	Chamfer					281	
78	4	Pls	20	7/8	9	44	pb201	UM	7	* 38'-1	1068		351	
79	8	Pls	35	3/8	8	16	pbh101		8	32'-5	1062		711	
80	1	R	174	9/16	2	2			pb201G2D				WT	LINE 8
81	1	Pl	222	7/8	2	5 1/2			pa201G3D					39
82	1	Pl	222	7/8	2	5 1/2	pb201	G3D		18	5			38
83	1	Pl	222	7/8	2	5 1/2	pc201	G3D		21	5			40
84	1	Pl	222	7/8	2	5 1/2			pd201G2D		21	5		40
85	9	Pl	174	7/8	1	11/2	pf201	G2D,G3D						24
86	3	Pl	222	3/8	3	8	pg201	G2D		10/5	5			73
87	5	Pl	222	3/8	2	4	ph201	G2D		5/134	5			72
88	1	Pl	222	7/8	2	7 1/2			pk201G2D		23	5		40
89	1	Pl	222	7/8	2	104			pm201G3D		28	AS		40
90	1	Pl	222	7/8	2	6	pn201	G3D		20	AS			40
91	1	Pl	222	7/8	2	7 1/2			pp201G3D		23	AS		40
92	1	Pl	222	7/8	2	7 1/2			pt201G2D		23	AS		40
93	1	Pl	222	7/8	2	7 1/2			pv201G2D		23	AS		40
94	1	Pl	222	7/8	2	7 1/2			py201G3D		23	AS		40
95	1	Pl	222	7/8	3	8 1/2	pb201	G4D		14	AS			83
96	3	Pl	174	7/8	2	2	pd201	G2D,G3D		14	AS			30
97	1	Pl	222	7/8	3	5 1/2	pa201	G3D		29	AS			60
98	1	Pl	222	7/8	3	5	pa201	G3D		32	AS			66
99	1	Pl	222	7/8	3	8 1/2	pa201	G3D		32	AS			69
100	1	Pl	222	7/8	3	8 1/2	pa201	G3D		32	AS			69
101	7	Pl	92	7/8	1	4 1/2	pa201	G2D		50	AS			86
102	1	Pl	306	3/8	4	2 1/2	pa201	G2D		50	AS			86
103	1	Pl	306	3/8	4	2 1/2	pa201	G2D		50	AS			86
104	1	Pl	306	3/8	4	2 1/2	pa201	G2D		50	AS			86
105	1	Pl	306	3/8	4	2 1/2	pa201	G2D		50	AS			86
106	1	Pl	306	3/8	4	2 1/2	pa201	G2D		50	AS			86
107	1	Pl	306	3/8	4	2 1/2	pa201	G2D		50	AS			86
108	1	Pl	306	3/8	4	2 1/2	pa201	G2D		50	AS			86
109	1	Pl	306	3/8	4	2 1/2	pa201	G2D		50	AS			86
110	1	R	174	9/16	2	2			pb201G2D				WT	LINE 8
111	2	Fils	6	7/8	4	34	dw201	G2D,G3D						38
112	6	Fils	20	7/8	1	02	dc101	G1D,G4D		*	2			157
113	8	Fils	20	7/8	1	03	dc101	G1D,G4D		*	30'-0	1085		123
114	8	Fils	20	7/8	1	02	dc201	G1D,G4D		*	30'-0	1085		29
115	4	Fils	20	7/8	11	62	dc201	G1D,G4D		*	1	AS		294
116	2	Fils	20	7/8	1	02	dc201	G1D,G4D		*	1	AS		34
117	2	Fils	20	7/8	1	01	dc101	G1D,G4D		*	1	AS		65
118	8	Fils	8 1/2	7/8	2	54	dc101	G1D,G4D		*				123
119	4	Fils	8 1/2	7/8	2	54	dc101	G1D,G4D		*				413
120	8	Fils	15	6	8	172	dc201	G1D,G4D		*				37
121	(2)	Fils	6	7/8	4	34	dc201	G1D,G4D						8
122	2	Fils	6	7/8	4	14	dc201	G2D,G3D						21
123	8	Fils	5	7/8	1	104	dc201	G1D,G4D						1039
124	8	Fils	5	7/8	1	02	dc201	G1D,G4D						161
125	1	Pl	222	7/8	2	13	FIN1	K9201G2D					WT	LINE 13
126	2	L	6	4	3	5	101	kd201	R-GID R-G4D		25'-0	1039		161
127	2	L	6	4	3	5	101	kd201	R-GID R-G4D		25'-0	1039		161
128	2	L	6	4	3	5	101	kd201	R-GID R-G4D		25'-0	1039		161
129	2	L	6	4	3	5	101	kd201	R-GID R-G4D		25'-0	1039		161
130	2	Pl	6	7/8	6	33	KC201	FIN1 G1D,G4D						56
131	(2)	Pl	194	7/8	1	11 1/2	KF201	FIN1 G1D,G4D						51
132	1	Pl	222	7/8	2	13	FIN1	K9201G3D		6	S			65
133	2	Pl	194	7/8	1	11 1/2	KK201	FIN1 G2D,G3D		6	S			51
134	8	L	6	4	3	2	63	ad101	R-GID R-G4D		40'-0	1043		116
135	8	L	4	3	3	6	ad101	G1D,G4D						58
136	4	L	6	4	3	2	63	ad101	R-GID R-G4D	4	40'-0	1043		24
137	4	L	4	3	3	3	16	aa201	G1D,G4D		40'-0	1019		18
138	4	L	4	3	3	2	47	aa201	R-GID R-G4D		40'-0	1019		18
139	4	L	4	3	3	2	56	ad201	R-GID R-G4D		40'-0	1019		19
140	8	L	4	3	3	2	76	ad201	R-GID R-G4D		40'-0	1019		101

LIFTING WEIGHT = 35 TONS

Work with sheet 201

LINE	Total No. of Pieces in the Order	MATERIAL		ASSEMBLING MARK	REMARKS	ORDERED		CALCULATED WEIGHT FOR ORDER
		SHAPE	LENGTH			ITEM	QUANTITY	
1								
2								
3		ONE	CARDER	G-10	Do NOT CHARGE	3034		66009
4		ONE	CARDER	G-10		3034		630107
5		ONE	CARDER	G-10		3034		630272
6		ONE	CARDER	G-10	Do NOT CHARGE	3034		659445
7								
8		1	W66 R	7 1/8	8	48	3 3/8	4545
9		1	W66 R	7 1/8	8	38	4 1/8	3611
10		1	W66 R	10 1/8	8	38	9 1/8	4266
11		1	W66 R	10 1/8	8	24	4 1/8	2863
12		1	L	8	6	36	8 3/8	11701
13		1	L	8	6	63	9 3/8	49116
14		1	L	8	6	63	5 3/8	49553
15		1	Cov R	20	3/8	40	10 1/8	36119
16		2	Cov R	20	3/8	61	2 1/8	25899
17		2	Cov R	20	3/8	61	3 1/8	18114
18		2	Cov R	20	3/8	61	7 3/8	12611
19		2	Cov R	20	3/8	61	7 3/8	18228
20		2	Cov R	20	3/8	55	0 1/8	18611
21		2	Cov R	20	3/8	55	0 7/8	16322
22		2	Cov R	20	3/8	55	6 1/8	18799
23		2	Cov R	20	3/8	55	6 1/8	16466
24		1	Cov R	20	3/8	28	8	852
25		1	Cov R	20	3/8	29	0 3/8	865
26								
27								
28		55	L	5	3/8	3/8	5	103
29		59	L	5	3/8	3/8	5	103
30		1	L	5	3/8	3/8	5	103
31		4	L	5	3/8	3/8	5	103
32		8	L	6	4	8	5	103
33		16	L	5	3/8	3/8	5	103
34		4	L	5	3/8	3/8	5	103
35		4	L	5	3/8	3/8	5	103
36		4	L	5	3/8	3/8	5	103
37		4	L	5	3/8	3/8	5	103
38		4	L	5	3/8	3/8	5	103
39		15	L	5	3/8	3/8	5	103
40		1	L	5	3/8	3/8	5	103
41		2	L	5	3/8	3/8	5	103
42		2	L	6	4	3	5	116
43		2	L	6	4	3	5	116
44		4	L	5	3/8	3/8	5	103
45		8	L	5	3/8	3/8	5	103
46		4	L	6	3/8	3/8	5	116
47		1	L	6	3/8	3/8	5	116
48		1	L	6	3/8	3/8	5	116
49		3	L	6	3/8	3/8	5	116
50		1	L	6	3/8	3/8	5	116
51		3	L	6	3/8	3/8	5	116
52		2	L	6	3/8	3/8	5	116
53		2	L	6	3/8	3/8	5	116
54		8	L	6	3/8	3/8	5	116
55		8	L	6	3/8	3/8	5	116
56		2	L	6	4	3	8	116
57		2	L	6	4	3	8	116
58		2	L	6	4	3	8	116
59		2	L	6	4	3	8	116
60		8	L	6	3/8	3/8	5	116
61		3	L	6	3/8	3/8	5	116
62		4	L	6	3/8	3/8		

STATE OF MAINE
STATE HIGHWAY COMMISSION
BANGOR BREWER BRIDGE
PENOBSCOT RIVER
BANGOR MAINE

AMERICAN BRIDGE
DIVISION

UNITED STATES STEEL COMPANY

DRAWINGS MADE AT TRENTON PLANT

WORK FABRICATED AT AMBRIDGE PLANT

IN CHARGE OF F B Marks

IN CHARGE OF L. E. HARRIS
DRAW. MADE BY R. N. G DATE 11-23-53
DRAW. CHECKED BY FFI DATE 3-18-54

4
4
4

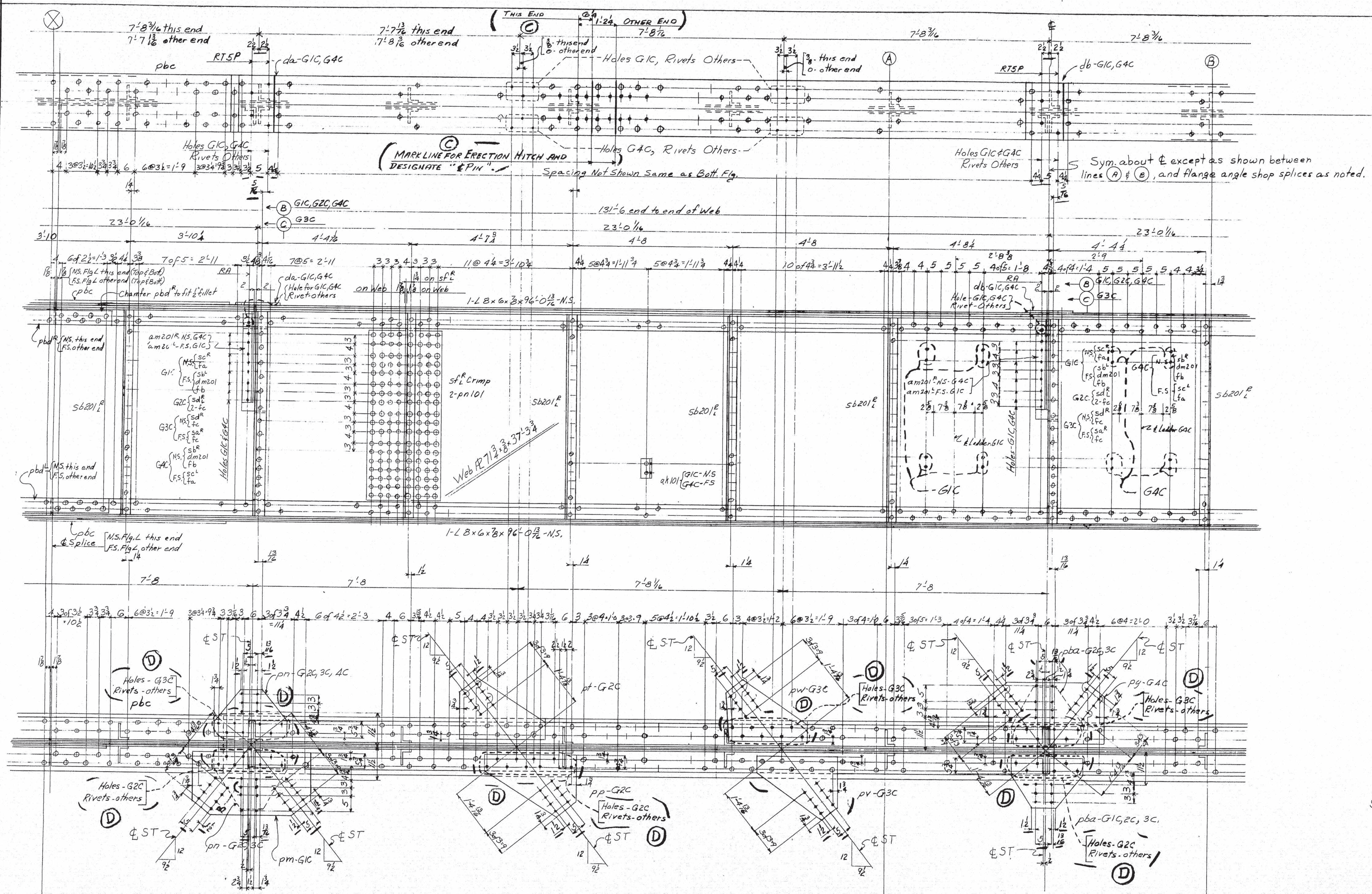
ORDER No. 1153

SHEET No. 121

NS | Q4130 | 40/C
62/100

401 C
62104

REV	DATE	BY	CHK	DESCRIPTION
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2	3-18-54	ENG		Revised Design
3	3-18-54	ENG		Final Design
4	3-18-54	ENG		As Built
5	3-18-54	ENG		Revised Design
6	3-18-54	ENG		Final Design
7	3-18-54	ENG		As Built
8	3-18-54	ENG		Revised Design
9	3-18-54	ENG		Final Design
10	3-18-54	ENG		As Built
11	3-18-54	ENG		Revised Design
12	3-18-54	ENG		Final Design
13	3-18-54	ENG		As Built
14	3-18-54	ENG		Revised Design
15	3-18-54	ENG		Final Design
16	3-18-54	ENG		As Built
17	3-18-54	ENG		Revised Design
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93	3-18-54	ENG		Final Design
94	3-18-54	ENG		As Built
95	3-18-54	ENG		Revised Design
96	3-18-54	ENG		Final Design
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100	3-18-54	ENG		As Built

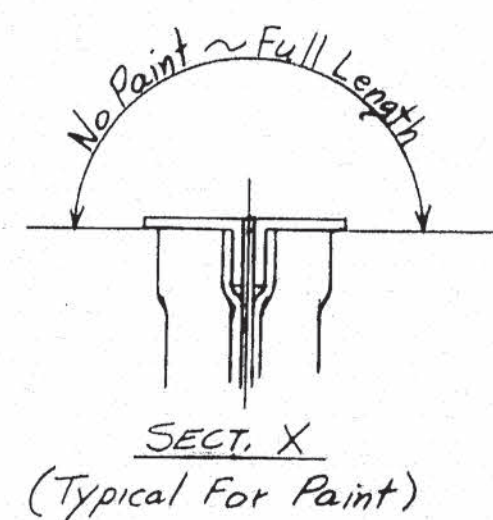
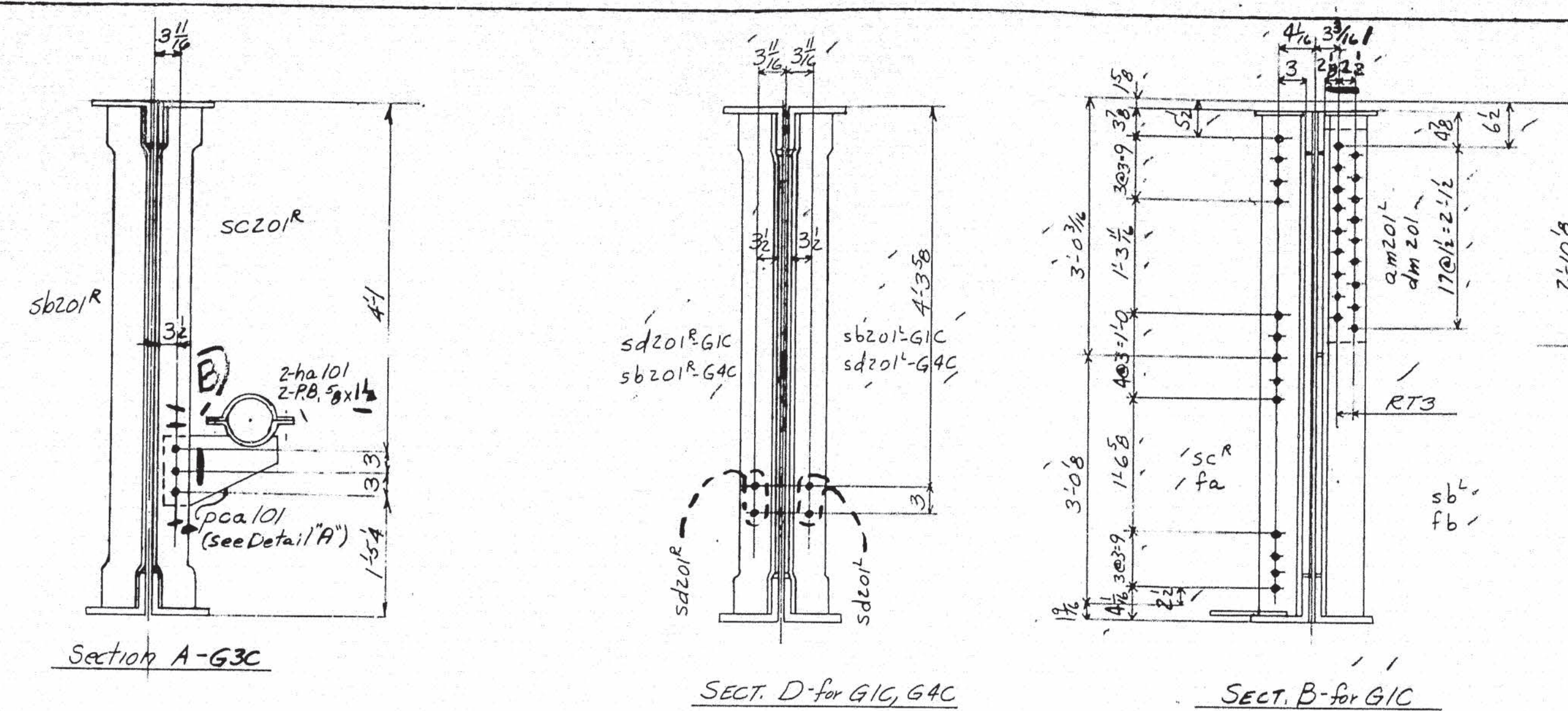


STATE OF MAINE
STATE HIGHWAY COMMISSION
BANGOR - BREWER BRIDGE
PENOBSCOT RIVER
BANGOR, MAINE

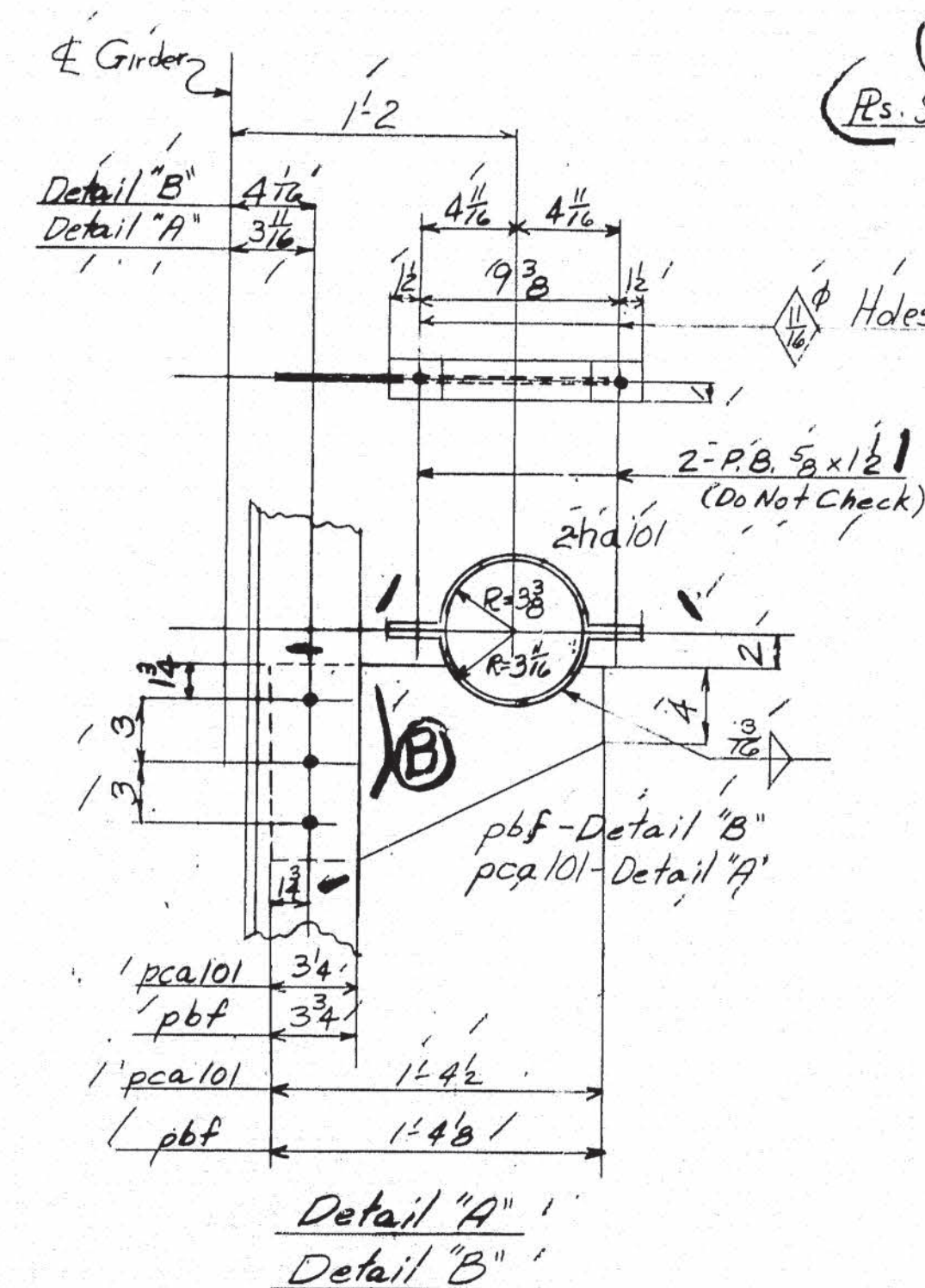
AMERICAN BRIDGE
DIVISION
UNITED STATES STEEL CORPORATION

DRAWINGS MADE AT Trenton PLANT
WORK FABRICATED AT Ambridge PLANT
IN CHARGE OF E. B. Marks
DRAWN BY RNG DATE 7-15-53
DRAWN CHECKED BY FEL DATE 8-15-54
ORDER No. Q 4150 SHEET No. 501 BC

62-186



74	2 R	174 %	2 1 1/2	Pk G2C	S	MET
75	2 R	174 %	2 1 1/2	Pk G3C	S	WEIG-
76	2 R	222 %	2 6 2	ph G3C	S	INCLUD
77	2 R	222 %	2 6 2	p9 G2C	S	WITH
78	2 R	174 %	2 2	pn G2C	S	RASEMA
79	2 R	174 %	2 2	pn G3C	S	PIECES P
80	1 R	174 %	2 0 2	pkz G2C	S	CASPERA
81	1 R	174 %	2 0 2	.Pbz G3C	S	GLOBE
82						
83						
84						
85						



NOTES:

SPECIFICATIONS - Maine State Highway Commission 1945 and Special Provisions

MATERIAL- O.H. Steel ASTM A7-52T

RIVETS -

WORKMANSHIP- Holes in material thicker than the diameter of the rivet shall be drilled.

Holes in main material, including holes at splices, in bearing stiffeners, and splice plates to be subpunched or subdrilled 6" and reamed to size.

Holes marked RT to be subpunched or subdrilled $\frac{1}{4}$ " and reamed to size to a metal templet.

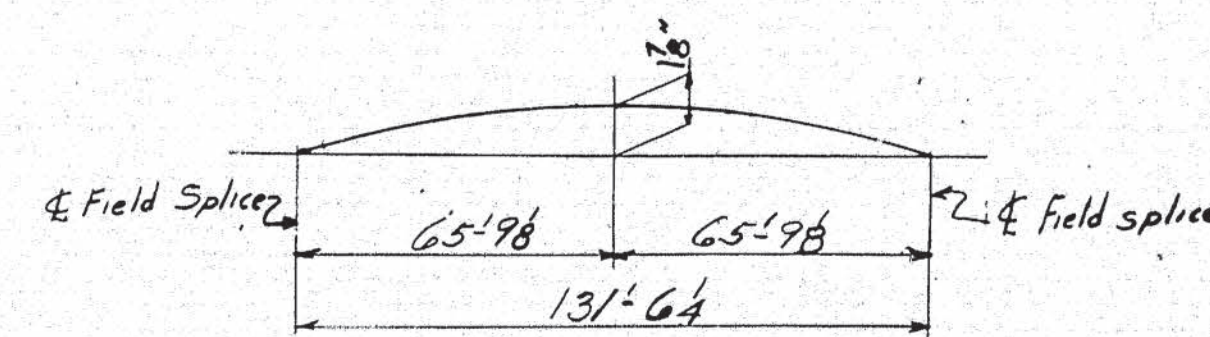
Holes marked RA to be subpunched or subdrilled .4" and reamed to size while connecting members are assembled.

to cambered position. (See Sheet E102)
Connecting members to be matchmarked.

Fillers and splice plates under stiffeners to fit within 8 of flange angles.

PAINT - B.E. indicates bearing end of stiffeners, Yes, Except as shown in Section XI.

SHOP CONTACT SURFACES - NC



CAMBER DIAGRAM

LIFTING WT. = 29 TONS

Sheet Total = 214,134.

AMERICAN BRIDGE

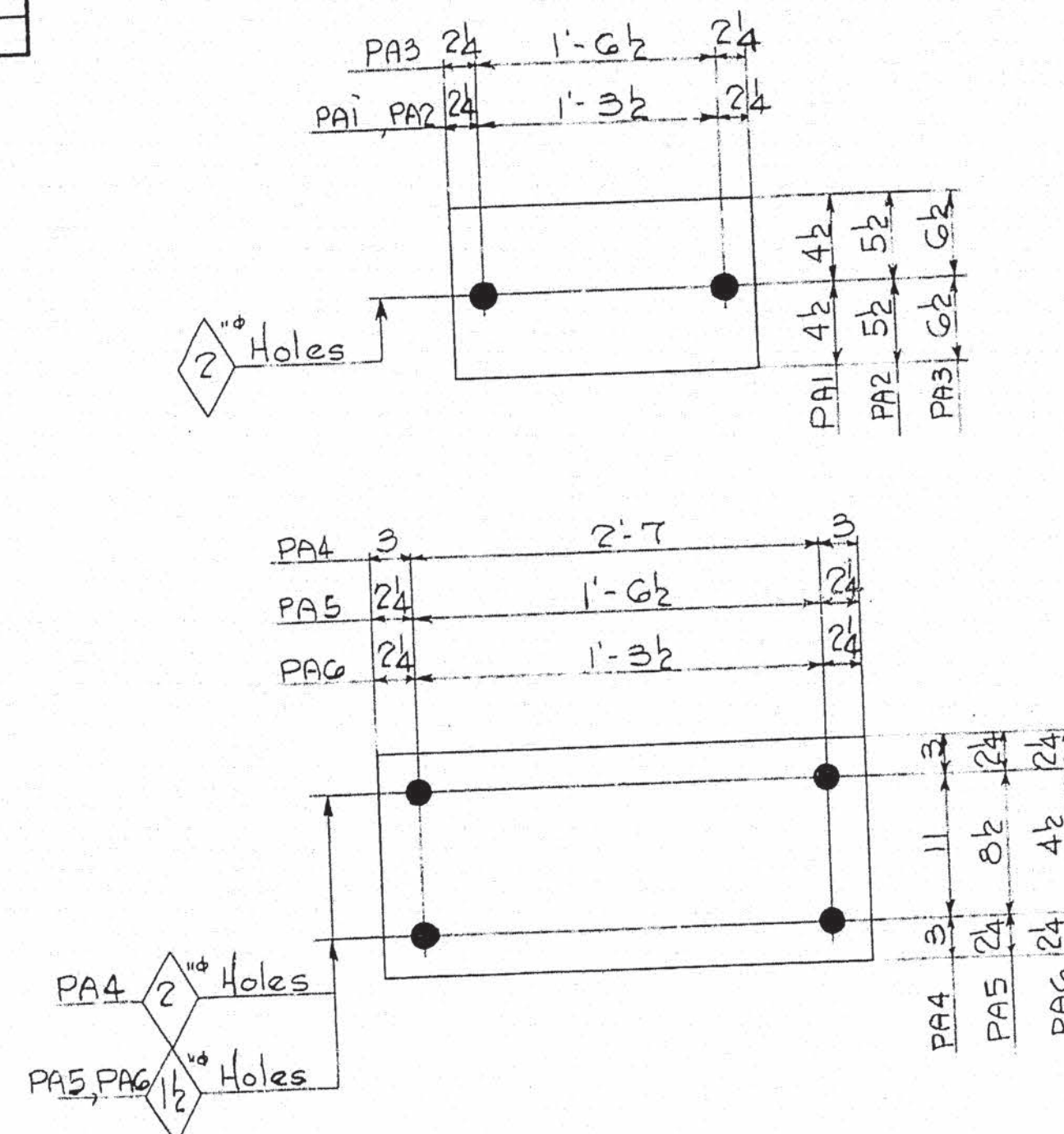
STATE OF MAINE
STATE HIGHWAY COMMISSION
BANGOR - BREWER BRIDGE
PENOBSCOT RIVER
BANGOR, MAINE

F		DRAWINGS MADE AT	<i>Trenton</i>	PLAN
E		WORK FABRICATED AT	<i>Ambridge</i>	PLAN
D		IN CHARGE OF	<i>E.B. Mann</i>	
C		DRAW. MADE BY	<i>RNG</i>	DATE <i>7-22-53</i>
B	<i>5-18-54</i>	DRAW. CHECKED BY	<i>FEL</i>	DATE <i>7-16-54</i>
X	<i>2-22-55</i>	ORDER No.		SHEET No.
REVISIONS		<i>Q4150</i>		<i>501C</i>

Adv. B.

Valdieu

62-197

[illegible][illegible]

Advance Bill Page 10 of 1

MATERIAL					MARK	CALCULATED WEIGHT FOR ONE BRID. PIECE	ORDERED		NO. PCB.	MATERIAL		MARK	CALCULATED WEIGHT FOR ONE BRID. PIECE	ORDERED	
NO. PCB.	SHAPE	LENGTH	ITEM	SHAPE			LENGTH	ITEM							
		FT.			INS.		FT.		INS.						
25	Led. H ₂	9 1/4	1	8	PA1		18	Ry. L-50296							
12	Led. H ₂	11 1/4	1	8	PA2		22	Ry. L-50296							
8	Led. P ₂	13 1/4	1	11	PA3		29	Ry. L-50296							
20	Led. R ₂	17 1/4	3	1	PA4	41 1/2	42	Ry. L-50296 hole b							
12	Led. R ₂	13 1/4	1	11	PA5	28 1/2	29	Ry. L-50296 hole b							
6	Led. R ₂	9 1/4	1	8	PA6	17 1/2	29	Ry. L-50296 hole b							
LEAD PLATES						REVIS. HOURS AS NOTED		DATE 9/17/53	DRAWINGS TRENTON FABRICATION TRENTON		ORDER No. Q4148	CHECK CHARGE SHEET No. F1			
CONTACT SURFACES						NAME OF STRUCTURE									

BANGOR-BREWER BRIDGE OVER PENOBSCOT RIVER ~ STATE OF MAINE

FORM D-88 SKETCH, SHOP AND SHIPPING BILL										
AMERICAN BRIDGE										
DIVISION UNITED STATES STEEL COMPANY										
SKETCH	LINE NO.	NO. PCB	MARK	MATERIAL		CALCULATED WEIGHT		ORDERED		SHIPMENTS
				SHAPE	LENGTH FT. INCH.	WEIGHT LBS.	NO. PCB	LENGTH FT. INCH.	ITEM	
	1									
	2									
	3	B	X1	Sledge Bolt	1 3	29	27		S	
	4	TG	X2	Sledge Bolt	1 6	320	304		S	
	5	M10	X3	Sledge Bolt	2 2 3	2508	2399		S	
	6									
	7									
	8	E4	W1	Wash. 3" x 3/8 (16' hole)		32			S	
	9	170	W2	Wash. 3" x 3/8 (16' hole)		832			S	
	10									
	11	E4		Hex Nuts 1" Tap		-			Share	
	12	170		Hex Nuts 1/2" Tap		-			Share	
	13									
	14									
	15									
	16									
	17									
	18									
	19									
	20									
	21									
	22									
	23									
	24									
	25									
	26									
	27									
	28									
	29									
	30									
	31									
	32									
	33									
	34									
	35									
	36									
	37									
	38									
	39									
	40									
	41									
	42									
	43									
	44									
	45									
	46									

Sketch showing dimensions and material callouts:

- X1 Thd., X2 Thd., X3 Thd.
- W1 - Others, W2 - X3
- Dimensions: 1'-3", 1'-6", 2'-3"
- Callouts: X1, X2, X3, X1, X2, X3, X1, X2, X3
- Legend: W2 (circle), W1 (square)

Anchor Bolts

PAINT No

CONTACT SURFACES -

DRAWINGS NAME DATE

MADE BY SEK 2-25-53

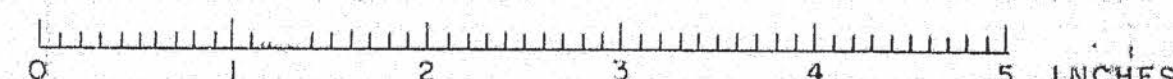
CNCD BY PRY 7-7-53

REVISIONS

DRAWINGS TRENTON FABRICATION ORDER No. Q4148

IN CHARGE OF E.B. MARRAS SHEET No. C I

BANGOR-BREWER BRIDGE OVER PENOBSCOT RIVER - STATE OF MAINE.



FORM D-73
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

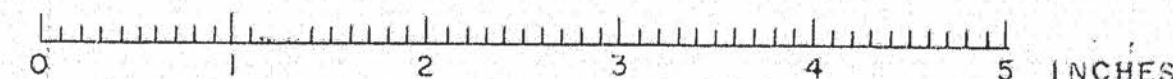
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AMERICAN BRIDGE COMPANY

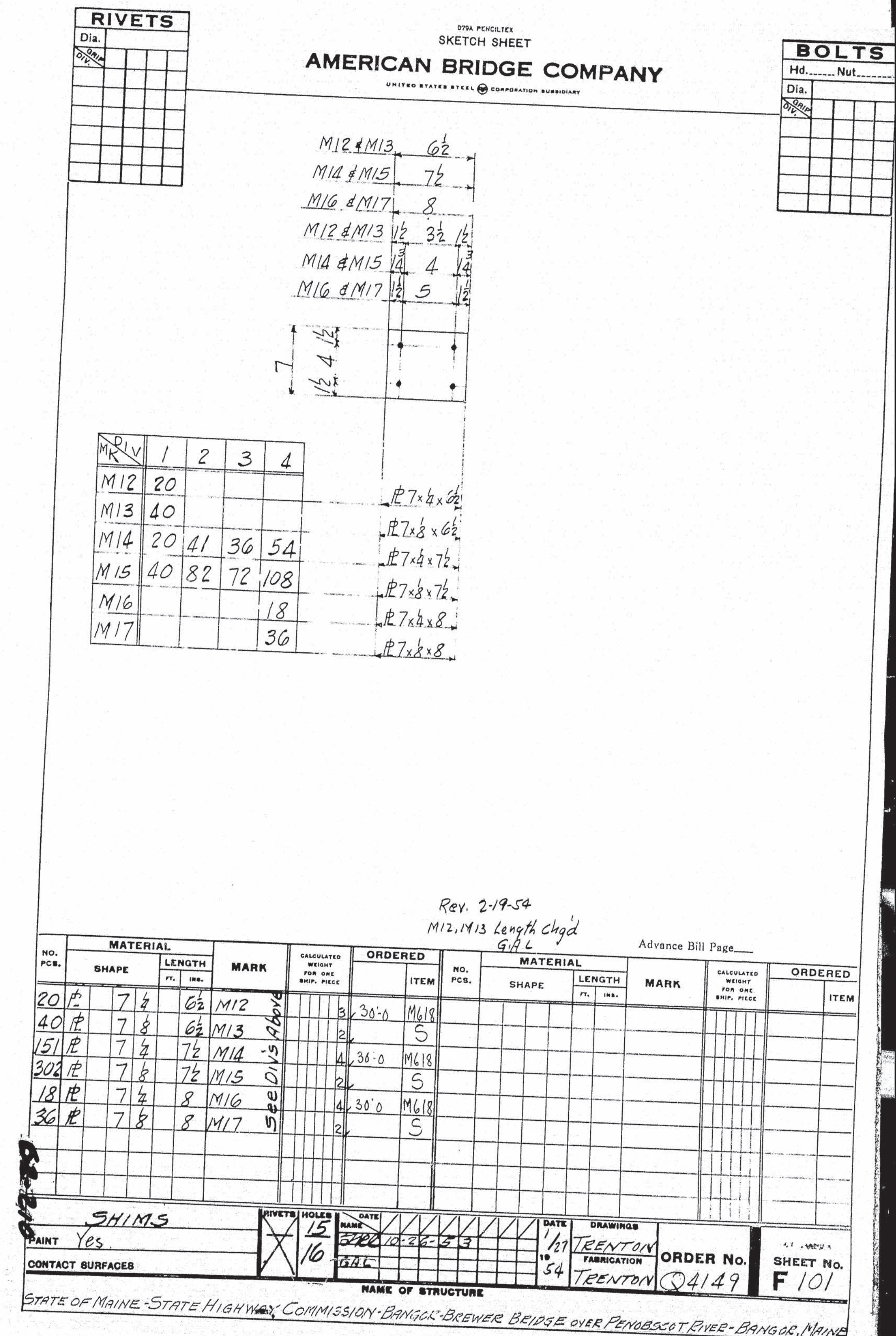
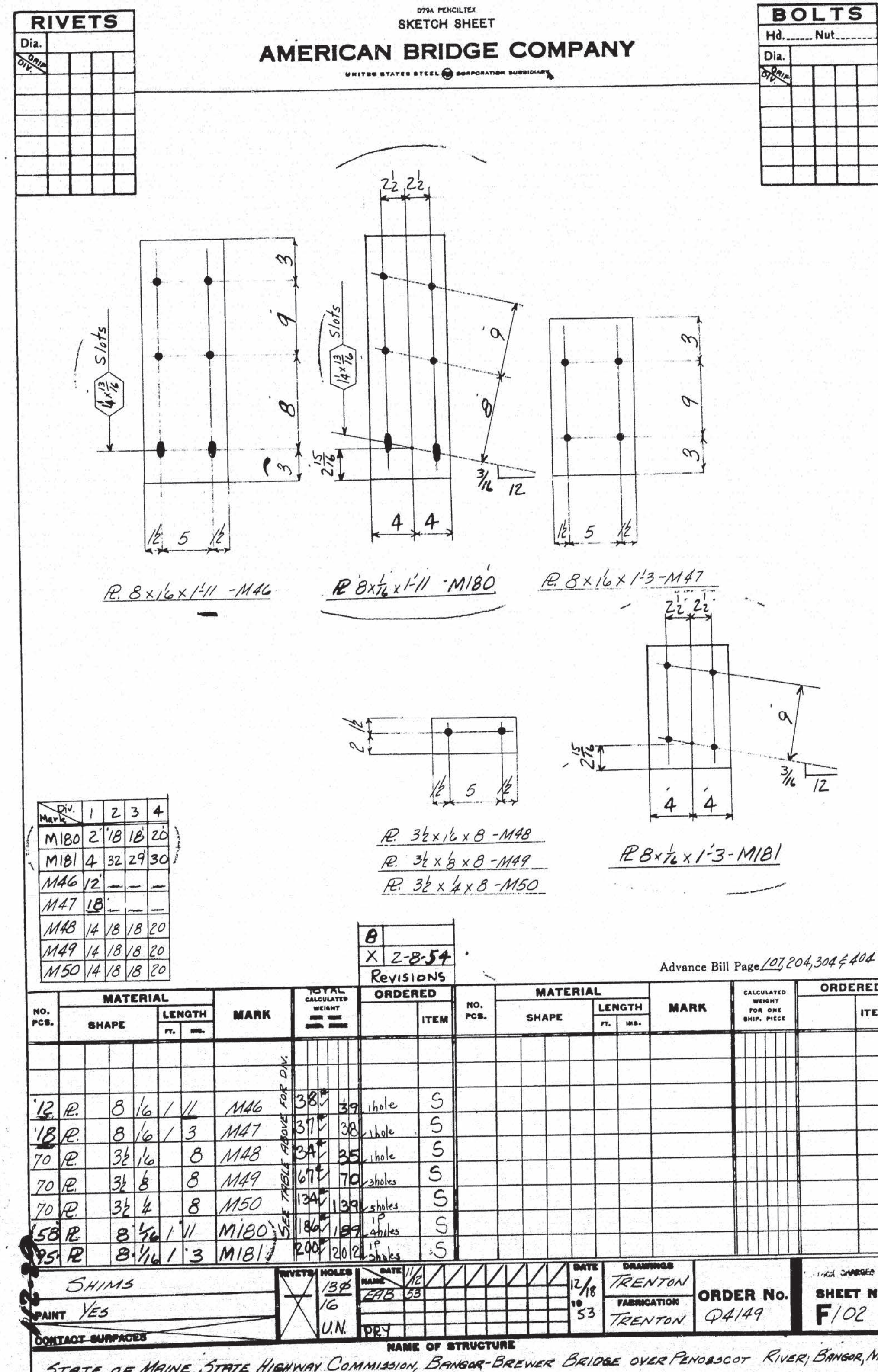
UNITED STATES STEEL CORPORATION SUBSIDIARY

FORM D-73
FIELD RIVETS AND BOLTS

LINE NO.	ACTUAL NUMBER REQ'D.	NO SHIPPED	DIAM.	RIVETS		BOLTS					GRIP	Dardelet Grip No.	SHELFPLATE WEIGHT TONS	SHIPMENTS
						LENGTH UNDER HEAD	HEAD	NUT	WASH-ER	TYPE OF BOLT				
1	96	120	7/8	2 1/8										
2	80	102	7/8	5 3/8										
3	40	55	7/8	5 3/8										
4	88	112	7/8	6 3/4										
5	52	70	7/8	4 1/4										
6	48	63	7/8	4 1/2										
7	32	46	7/8	6 1/4										
8	24	38	7/8	6										
9	80	102	7/8	3 3/8										
10	116	144	7/8	4 3/8										
11	20	30	7/8	3 1/2										
12	48	63	7/8	4										
13	452	530	7/8	2 1/4										
14	242	288	7/8	2 3/4										
15	146	178	7/8	2 3/8										
16	56	74	7/8	2 1/2										
17	126	154	7/8	2 5/8										
18	10	15	7/8	3 1/8										
19	8	13	7/8	7										
20	32	46	7/8	6 1/2										
21	22	36	7/8	2 3/8										
22	6	10	7/8	4 1/8										
23	6	10	7/8	3 3/8										
24	8	13	7/8	4 5/8										
25														
26	28	34	3/4		2 1/4 Hex	Hex	Ordinary	1 1/2						
27	8	11	3/4		2 1/2 Hex	Hex	Ordinary	1 1/2						
28														
29	148	160	7/8		2 1/4 Button	Hex	Dardelet Rivet Bolt	1 1/2	#7	Fig-50298				
30	8	12	7/8		3 1/4 Button	Hex	Ordinary Rivet Bolt	2	#9	Fig-50924				
31	8	12	7/8		3 1/4 Button	Hex	Dardelet Rivet Bolt	2 3/8	#11	Fig-50924				
32														
33														
34														
35														
36														
37														
38														
39														
40														
41														
42														
43														
44														
45														
46														
47														



LINE NO.	NO. PCS.	DIAM.	RIVETS		BOLTS					GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
					LENGTH UNDER HEAD	HEAD	NUT	WASHER	TYPE OF BOLT			
1	8	3/8	3 1/2							1 3/4	4 1/2	B1, B2 to D1, D2
2	12	3/8	2 1/4							1 3/4	3 3/4	B1, B2 to D2, D3A
3	20	7/8	2 1/4							1 1/2	1 1/4	B1, B2 to D5, D4A
4	32	7/8	2 1/4							3/4	3 3/4	B1, B2 to D5
5	128	7/8	2 1/4							3/4	3 3/4	B3 to D5
6	112	7/8	2 1/4							1 1/2	1 1/4	B3 to D4, D4A
7	28	7/8	3 1/2							1 3/4	1 1/2	F1
8	15	7/8	4 1/4							2 1/2	3 3/4	F1
9	11	7/8	2 3/4							1 1/4	1 1/2	F1
10	16	7/8	2 1/4							1 1/4	1 3/4	F1 to B14, B15
11	14	7/8	3 1/2							1 3/4	1 1/2	F1 to B4, B9
12	28	7/8	3 1/2							1 3/4	1 1/2	F1 to B5, B6, B10, B11
13	14	7/8	3 3/8							1 1/2	1 1/2	F1 to B7, B12
14	9	7/8	4 3/8							2 3/4	3 3/8	F1 to B8
15	9	7/8	4 1/4							2 1/2	3 3/8	F1 to B13
16	6	7/8	3 1/4							1 5/8	1 1/2	F1 to B17
17	6	7/8	3 1/2							1 3/4	1 1/2	F1 to B18
18												
19												
20	2	3/4		2 1/4	Hex	Hex		Ordinary	1 3/8	1 1/4	5/8	F1 to F85
21	8	DF		4 3/4	Hex	Hex		Turn Bolt	3 3/4	1 1/2	1 1/4	F1 to TPI1
22	8	DF		4 3/4	Hex	Hex		Turn Bolt	3 3/4	2 1/2	1 1/4	F1 to TPI1
23	12	3/8	2 1/8						5/8	9/16	5/16	B4 to M18, M19
24	8	3/8	3/4						1 5/8	3/4	3/16	B4 to M9, M11
25	36	7/8	2 3/8						7/8	3/8	1/2	B4 to M11, D9
26	36	7/8	2 1/4						3/4	3/8	3/8	B4 to M9, D13
27	40	7/8	2 3/8						3/8	1 1/2	3/8	B5, B6 to D7, D8, D9
28	32	7/8	2 1/4						3/4	1 1/2	3/8	B5, B6 to D11, D12, D13
29	20	7/8	2 3/8						3/8	1 1/2	3/8	B7 to D4, D7
30	16	7/8	2 1/4						3/4	3/8	3/8	B7 to D10, D11
31	6	7/8	2 1/8						5/8	9/16	3/16	B8 to M21
32	4	7/8	3 3/8						1 1/2	3/4	1 1/4	B8 to M1
33	4	7/8	3 3/8						1 3/8	3/4	1 1/4	B8 to M2
34	36	7/8	2 1/8						7/8	1 1/2	3/8	B8 to M1, D6
35	36	7/8	2 1/8						7/8	1 1/2	3/8	B8 to M2, D10
36	39	7/8	3 3/4						1 1/2	1 1/2	1 1/2	F2
37	26	7/8	4 1/4						2 1/4	3/4	1 5/16	F2
38	3	7/8	3						1 1/4	1 1/2	1 1/2	F2
39	4	3/4		2 1/4	Hex	Hex		Ord.	1 3/8	1 1/4	5/8	F2 to F85, F811, F812
40	16	DF		5 1/4	Hex	Hex		Turn Bolt	3 3/4	2 1/2	1 1/2	F2 to TPI2
41	49	3/8	3 1/2						1 3/4	3 1/2	1 1/2	F2 to B9, B10, B21, B22, B11, B13
42	7	7/8	3 3/8									



ERECTORS LIST FIELD RIVETS AND BOLTS AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD	NUT	WASHER	
				TYPE OF BOLT			
1	24	7/8	2 1/2				B26 to M9, 92, 93, 94, 95
2	40	7/8	5 3/8				B26 to B31
3	40	7/8	5 3/8				B27, B28 to B32, B33 (Top)
4	8	7/8	6 3/4				B26 to B31 (Top)
5	16	7/8	6 3/4				B27, B28 to B32, B33 (Top)
6	16	7/8	4 1/2				B26 to B31
7	32	7/8	4 1/2				B27, B28 to B32, B33
8	8	7/8	6 3/4				B26 to B31 (Bottom)
9	32	7/8	6 3/4				B27, B28 to B32, B33 (Bottom)
10	24	7/8	6				B27, B28 to B32, B33 (Both)
11	20	7/8	5 3/8				B26 to B31 (Both)
12	40	7/8	3 3/8				B26 to B31 (Web)
13	12	7/8	4 3/8				B27, B28 to B32, B33 (Web)
14	10	7/8	4 3/8				B26 to B31 (Web)
15	20	7/8	4 3/8				do
16	20	7/8	3 1/2				B27, B28 to B32, B33 (Web)
17	36	7/8	4				do
18	40	7/8	2 1/4				B26 to D26, M30
19	36	7/8	2 1/4				B27, B28 to D24, D25, D26
20	72	7/8	2 1/4				B26 to D19, M44
21	36	7/8	2 3/8				B26 to D13, D17, M29, M43
22	40	7/8	2 3/8				B26 to D69, M28
23	40	7/8	2 3/8				B27, B28 to D18, D19, D19A
24	64	7/8	2 1/4				B27, B28 to D8, D69
25	12	7/8	2 3/8				B27, B28 to D12, D13, D17, D22, D23
26	14	7/8	2 3/8				B30 to M103, 104, 105, 106
27	36	7/8	2 3/8				B30 to M36
28	18	7/8	2 1/4				B30 to D20, M34
29	18	7/8	2 1/4				B30 to M35
30	24	7/8	2 3/8				B30 to D21
31	8	7/8	6 3/4				B31 to M92, M96-M102
32	10	7/8	1 1/8				B31 to M31
33	8	7/8	6 3/4				B31
34	36	7/8	2 3/8				B31 to D32
35	36	7/8	2 3/8				B31 to D29, M45
36	36	7/8	2 3/8				B31 to D32, M31
37	36	7/8	2 3/8				B31 to D35, M32
38	12	7/8	2 3/8				B31 to D38, M33
39	40	7/8	5 3/8				B29 to M107-110
40	16	7/8	4 1/4				B29 to B34
41	8	7/8	6 3/4				do
42	8	7/8	6 3/4				do (Top)
43	20	7/8	3 3/8				do (Both)
44	10	7/8	4 3/8				do (Web)
45	2	7/8	4 1/4				do (Web)
46	2	7/8	2 3/8				do (Web)

Bangor-Brewer Bridge - Bangor, Me.

ERECTORS LIST FIELD RIVETS AND BOLTS AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD	NUT	WASHER	
				TYPE OF BOLT			
1	11	7/8		#6	Hex		F1 to B16
2	18	7/8		#5	Hex		F1 to M3
3	72	7/8		#7	Hex		ED4 to Diaphragms
4	4	7/8		#9	Hex		ED4 to D6
5	4	7/8		#9	Hex		ED4 to D9
6	80	7/8		#6	Hex		ED3 to D4A
7							
8							
9	160	Washers	2 1/2	4	Thick	1/4	For use under nut of Dashed Rivet Bolt
10	320	Washers	2 1/2	4	Thick	1/4	As required to build up required grip as noted on lines 3, 4, 5, & 6.
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
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39							
40							
41							
42							
43							
44							
45							
46							

FIELD RIVETS AND BOLTS

NAME DATE
PRY 2-17-54

IN CHARGE OF
Marks
ORDER No. Q4149

DIVISION
SHEET No. EF103

NAME OF STRUCTURE
Bangor-Brewer Bridge - Bangor, Me.

ERECTORS LIST FIELD RIVETS AND BOLTS AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD	NUT	WASHER	
				TYPE OF BOLT			
1	12	7/8	2 3/8				B9 to M19, M18
2	4	7/8	3 1/4				B9 to M9
3	36	7/8	2 1/4				B9 to M9, D13
4	48	7/8	2 1/4				B10, B11, B13 to D14, D12, D13, D15
5	6	7/8	2 1/4				B13 to B19
6	16	7/8	2 1/4				B12 to D11
7	10	7/8	2 1/4				B14 to B16
8	6	7/8	2 3/8				B15 to B16
9	9	7/8	2 3/8				B16 to M2
10	7	7/8	2 3/8				B16 to M3
11	6	7/8	3 1/4				B17 to B19
12	16	7/8	2 1/4				B17 to D14, D15
13	6	7/8	2 1/4				B19
14	6	7/8	2 1/4				B19 to B18
15	12	7/8	2 3/8				B18 to M22, 23, 24, 25
16	4	7/8	4				B18 to M4
17	36	7/8	2 1/4				B18 to M4, D14
18	4	7/8	2 3/8				B20 to M5
19	6	7/8	2 3/8				B20 to M26, M27
20	12	7/8	2 3/8				B21 to M18, M20
21	8	7/8	3 1/4				B21 to M7, M8
22	36	7/8	2 3/8				B21 to M7, D9
23	36	7/8	2 1/4				B21 to M8, D17
24	40	7/8	2 1/4				B22, B23 to D14, D12, D13
25	8	7/8	2 3/8				B23 to D16
26	60	7/8	2 3/8				B22, B23 to D6A, D7, B, 9
27	6	7/8	2 3/8				B24 to M89, M90
28	4	7/8	3 3/8				B24 to M6
29	4	7/8	4 1/8				B24 to M5
30	36	7/8	2 3/8				B24 to M6, D6A
31	20	7/8	3 1/4				B24 to M5, D16
32	12	7/8	2 3/8				FBI, FB2 to D1, D2
33	12	7/8	2 3/8				FBI, FB2 to D3, D3A
34	2	7/8	2 1/2				D6 to M1
35	2	7/8	2 1/2				D6A to M6
36	4	7/8	2 1/2				D9 to M7, M11
37	8	7/8	2 1/2				D10 to M2
38	18	7/8	2 1/2				D13, D17 to M8, M19
39	12	7/8	3 1/4				D16 to M5
40	6	7/8	2 1/2				D14 to M4
41	7	3/4		2 1/4 Hex Hex	Ord.	1 1/2	FBI, FB2 to M1, M11, M2, M9
42	3	3/4		2 1/4 Hex Hex	Ord.	1 1/2	FBI to M7, M8
43	6	3/4		2 1/4 Hex Hex	Ord.	1 1/2	FBI to M8, M9 FBI to M6
44	1	3/4		2 1/4 Hex Hex	Ord.	1 1/2	FBI to M3
45	2	3/4		2 1/4 Hex Hex	Ord.	1 1/2	FBI to M3, M4
46	3	3/4		2 1/4 Hex Hex	Ord.	1 1/2	M5 to FBI, FB13, FBI to M4

FIELD RIVETS AND BOLTS

NAME DATE
PRY 2-17-54

IN CHARGE OF
Marks
ORDER No. Q4149

DIVISION
SHEET No. EF102

NAME OF STRUCTURE
Bangor-Brewer Bridge - Bangor, Me.

0 1 2 3 4 5 INCHES

ERECTORS LIST FIELD RIVETS AND BOLTS AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD NUT WASH-ER TYPE OF BOLT			
1	24	3/8	2 1/2			5/8	B35 to M119-M126
2	32	3/8	4 1/2			2 1/2	B35, B38 to B39, B42
3	80	3/8	5 3/4			3 1/2	B35, B38 to B39, B42
4	8	3/8	7			4 1/2	B35, B38 to B39, B42 (top)
5	8	3/8	7			4 1/2	B35, B38 to B39, B42 (top)
6	16	3/8	6 3/4			4 1/2	B35, B38 to B39, B42 (web)
7	40	3/8	3 3/4			2 1/2	B35, B38 to B39, B42 (web)
8	72	3/8	2 1/2			1 1/2	B35 to M64, D42 B38 to M55, D73
9	72	3/8	2 1/2			1 1/2	B35 to M63, D47 B38 to M54, D45
10	20	3/8	4 1/2			4 1/2	B35, B38
11	4	3/8	6 1/4			4 1/2	B35 to M62 B38 to M53
12	4	3/8	6 1/4			4 1/2	B35 to M62 B38 to M53
13	8	3/8	5 1/2			3 1/2	B35 to D65 B38 to D64
14	72	3/8	2 1/2			3 1/2	B35 to M62, D65 B38 to M53, D64
15	24	3/8	2 1/2			3 1/2	B35 to M60, M61, D41, D78
16	72	3/8	2 1/2			3 1/2	B38 to M133-M140
17	24	3/8	2 1/2			3 1/2	B38 to M51, M52, D32, D77
18	72	3/8	2 1/2			3 1/2	B36, B37 to B40, B41
19	32	3/8	4 1/2			4 1/2	do
20	64	3/8	5 1/4			4 1/2	B36, B37 to M175
21	2	3/8	6 3/4			4 1/2	do
22	6	3/8	7			4 1/2	do
23	6	3/8	7			4 1/2	do
24	2	3/8	7 1/4			4 1/2	B36, B37 to D42, 71, 73
25	32	3/8	6 3/4			4 1/2	B36, B37 to B40, B41 (web)
26	80	3/8	3 3/4			2 1/2	do
27	20	3/8	4 1/2			3 1/2	B36, B37 to D42, 71, 73, 44, 45, 70
28	80	3/8	2 1/4			4 1/2	B36, B37 to M177
29	2	3/8	6 3/4			4 1/2	do
30	6	3/8	7			4 1/2	do
31	6	3/8	7			4 1/2	do
32	2	3/8	7 1/4			4 1/2	B36, B37 to D42, 45, 70
33	40	3/8	2 1/2			3 1/2	B36, B37 to D45, 46, 47
34	64	3/8	2 1/4			5 1/2	B36, B37 to D33, 40, 41, 48, 77, 78
35	18	3/8	2 1/2			5 1/2	B39 to M127-M132
36	4	3/8	2 1/2			4 1/2	B39 to M166
37	4	3/8	7			4 1/2	do
38	4	3/8	7			4 1/2	B39 to D44
39	8	3/8	7			2 1/2	B39
40	10	3/8	4 3/8			1 1/2	B39 to M66, D44
41	36	3/8	2 1/2			3 1/2	B39 to M67, D50
42	36	3/8	2 1/4			3 1/2	B39 to M65, M68, D29, D38
43	72	3/8	2 1/4			5 1/2	B42 to M141-M147
44	21	3/8	2 1/2			4 1/2	B42 to M57
45	4	3/8	7			4 1/2	do
46	4	3/8	7			4 1/2	do

ERECTORS LIST FIELD RIVETS AND BOLTS AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD NUT WASH-ER TYPE OF BOLT			
1	148	3/8		#7 8th Hex		1 1/2	ED9, ED10 to D6A, D7, P8, D9, D20, D69
2	4	3/8		#9		2	ED9 to D6A
3	4	3/8		#11		2	ED9 to D9
4	8	3/8				2 3/8	ED9 to D20, D69
5							
6							
7	164	Washers 2 1/2					For use under nut of Dandelot Rivet
8	328	Washers 2 1/2					Bolts as required to build up required grip as noted on lines 1, 2, 3, 4
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ERECTORS LIST FIELD RIVETS AND BOLTS AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD NUT WASH-ER TYPE OF BOLT			
1	20	3/8	2 1/2			3/8	B29 to M119, D8
2	10	3/8	2 1/2			1	B29 to D21
3	10	3/8	2 1/4			3/4	B29 to D22
4	10	3/8	3 1/2			1 1/2	B29
5	18	3/8	2 1/2			1 1/2	B29 to M36
6	36	3/8	2 1/4			1 1/2	B29 to D23
7	24	3/8	2 1/2			3/8	B29 to M37, D19A
8	8	3/8	6 3/4			4 1/2	B34 to M111-118
9	8	3/8	6 3/4			4 1/2	B34 to M40
10	10	3/8	4 3/8			4 1/2	B34 to D30
11	36	3/8	2 1/2			1 1/2	B34
12	36	3/8	2 1/4			3/4	B34 to M40, D30
13	36	3/8	2 1/4			3/4	B34 to D27, M39
14	36	3/8	2 1/4			3/4	B34 to D33, M41
15	8	3/8	6 3/4			4 1/2	B34 to D36, M42
16	8	3/8	7			4 1/2	B32, B33 to M176
17	32	3/8	6 1/2			4 1/2	do
18	40	3/8	2 1/4			3 1/2	B32, B33 to D34, D32
19	32	3/8	2 1/4			3 1/2	do
20	32	3/8	2 1/4			3 1/2	B32, B33 to D27, 28, 29
21	32	3/8	2 1/4			3 1/2	B32, B33 to D36, 37, 38
22	40	3/8	2 1/4			3 1/2	B32, B33 to D33, 34, 35
23	6	3/8	2 1/2			1 1/2	M35 to D21
24	24	3/8	2 1/2			1 1/2	M29, 37, 43, 45 to D13, 17, 27, 29
25	12	3/8	4			2 1/2	M37, M44 to D19, D19A
26	6	3/8	4 1/2			2 1/2	M32 to D35
27	6	3/8	3 1/2			2 1/2	M91 to D33
28	10	3/4		2 1/4 Hex Hex	Ord.	1 1/2	M29, 35, 37, 43, 45 to F814, 15, 16, 17, 19, 20, 23, 24, 27
29	4	3/4		2 1/2 Hex Hex	Ord.	1 1/2	M32, M41 to F820, 21, 28, 29
30	4	3/4		2 1/4 Hex Hex	Ord.	1 1/2	M37, M44 to F814, 17, 24, 25
31	12	3/8	2 1/2			1 1/2	M36 to D23
32	4	3/8	2 1/2			1 1/2	M28, M34 to D69, D20
33	4	3/8	2 1/2			1 1/2	M33, M42 to D36, D38
34	8	3/4		2 1/4 Hex Hex	Ord.	1 1/2	M28, 33, 34, 42 to F814, 21, 32, 29
35	2	3/4		2 1/4 Hex Hex	Ord.	1 1/2	M36 to F823, 24
36	16	3/8	4 1/2			2 1/2	M30, M38 to D29, D26
37	8	3/8	4 1/2			2 1/2	M31 to D32
38	8	3/8	4 1/2			2 1/2	M40 to D30
39	4	3/4		2 1/4 Hex Hex	Ord.	1 1/2	M30, M38 to F817, 18, 25, 26
40	4	3/4		2 1/2 Hex Hex	Ord.	1 1/2	M31, M40 to F819, 20, 27, 28
41	24	3/8	4 3/8			2 1/2	D24, D25, D26 to M175
42	24	3/8	4 3/8			2 1/2	D30, D31, D32 to M176
43							
44							
45							

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD NUT WASH-ER TYPE OF BOLT			
1	21	3/8	2 1/2			5/8 x 7/8	B43 to M48-M154
2	16	3/8	3 3/8			1 1/2 x 1 1/8	B43 to B47 (top) B46 to B50 (top)
3	40	3/8	4 1/4			2 1/2 x 1 1/8	do do
4	4	3/8	5 3/8			3 1/2 x 1 1/8	B43 to M84 B46 to M74
5	4	3/8	5 1/2			3 1/2 x 1 1/8	do do
6	16	3/8	3 3/4			1 1/2 x 1 1/8	B43 to B47 (bottom) B46 to B50 (bottom)
7	40	3/8	4 3/8			2 1/2 x 1 1/8	do do
8	8	3/8	5			3 1/2 x 1 1/8	B43 to D83 B46 to D82
9	40	3/8	3 3/4			1 1/2 x 1 1/8	B43 to B47 (web) B46 to B50 (web)
10	40	3/8	3 3/8			1 1/2 x 1 1/8	do do
11	20	3/8	4 1/8			2 1/2 x 1 1/8	do do
12	20	3/8	4			2 1/2 x 1 1/8	do do
13	72	3/8	2 5/8			1 1/2 x 3/8	B43 to M84, D83 B46 to M74, D82
14	20	3/8	4			2 1/2 x 3/8	B43 B46
15	72	3/8	2 5/8			1 1/2 x 3/8	B43 to M71, D68 B46 to M71, D66
16	4	3/8	5 1/4			3 1/2 x 1 1/8	B43 to M81 B46 to M71
17	4	3/8	5 1/4			3 1/2 x 1 1/8	do do
18	8	3/8	4 5/8			2 1/2 x 1 1/8	B43 to D68 B46 to D66
19	72	3/8	2 5/8			1 1/2 x 3/8	B43 to M82, D63 B46 to M72, D62
20	108	3/8	2 1/4			3/4 x 3/8	B43 to M79, 80, 83, D80, 76, 61
21	21	3/8	2 1/8			5/8 x 3/8	B46 to M163-M169
22	108	3/8	2 1/4			3/4 x 3/8	B46 to M69, 70, 73, D52, 75, 59
23	16	3/8	3 3/4			1 1/2 x 1 1/8	B44, B45 to B48, B49 (top)
24	40	3/8	4 3/8			2 1/2 x 1 1/8	do
25	2	3/8	5 1/4			3 1/2 x 1 1/8	B44, B45 to M179 (field spl.)
26	4	3/8	5 3/8			3 1/2 x 1 1/8	do
27	2	3/8	5 3/8			3 1/2 x 1 1/8	do
28	16	3/8	4			2 1/2 x 1 1/8	B44, B45 to B48, B49 (bottom)
29	32	3/8	4 1/2			2 1/2 x 1 1/8	do
30	16	3/8	5 3/8			3 1/2 x 1 1/8	B44, B45 to D67, 82, 83
31	40	3/8	3 3/8			1 1/2 x 3/8	B44, B45 to B48, B49 (web)
32	60	3/8	3 1/2			1 1/2 x 3/8	do
33	20	3/8	4 1/4			2 1/2 x 1 1/8	do
34	40	3/8	2 1/4			3/4 x 3/8	B44, B45 to D67, 82, 83
35	40	3/8	2 1/4			3/4 x 3/8	B44, B45 to D66, 67, 68
36	2	3/8	5			3 1/2 x 1 1/8	B44, B45 to M179 (shop spl.)
37	4	3/8	5			3 1/2 x 1 1/8	do
38	2	3/8	5 1/2			3 1/2 x 1 1/8	do
39	16	3/8	4 3/8			2 1/2 x 1 1/8	B44, B45 to D66, 67, 68
40	40	3/8	2 5/8			1 1/2 x 3/8	B44, B45 to D63, 63, 81
41	96	3/8	2 1/4			3/4 x 3/8	B44, B45 to D52, 79, 80, 79, 75, 76, 57, 69, 61
42	40	3/8	2 5/8			1 1/2 x 3/8	B46, B49 to D53, 54, 55
43	40	3/8	2 5/8			1 1/2 x 3/8	B48, B49 to D54, 57, 58
44	64	3/8	2 1/4			3/4 x 3/8	B48, B49 to D74, 75, 76, 59, 60, 61
45	24	3/8	2 1/8			5/8 x 3/8	B47 to M159, 156, 157, 159, 161
46	24	3/8	2 1/8			5/8 x 3/8	B50 to M170, 171, 172, 158, 174

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD NUT WASH-ER TYPE OF BOLT			
1	128	3/8		#7 But Hex	1 1/2	2 1/2 x 1 1/8	ED15, ED16 to Diaphragms
2	8	3/8		#9 But Hex	2	2 1/2 x 1 1/8	ED16 to D39, D41
3	8	3/8		#9 But Hex	2	2 1/2 x 1 1/8	ED15 to D36, D38
4							
5							
6	144	Washers 2 1/8"					For use under nut of Dardale + Rivet
7	288	Washers 2 1/8"					Bolts replaced to build up required grip as noted on lines 1, 2 & 3
8							
9							
10							
11							
12							
13							
14							
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ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD NUT WASH-ER TYPE OF BOLT			
1	8	3/8	7			4 3/4 x 1 1/8	B42 to D43
2	10	3/8	4 3/8			2 1/2 x 3/8	B42
3	36	3/8	2 5/8			1 1/2 x 3/8	B42 to M57, D43
4	36	3/8	2 3/4			1 1/2 x 3/8	B42 to M58, D48
5	72	3/8	2 1/4			3/4 x 3/8	B42 to M56, M59, D27, D51
6	2	3/8	6 3/4			4 3/4 x 1 1/8	B40, B41 to M178
7	6	3/8	7			4 3/4 x 1 1/8	do
8	6	3/8	7			4 3/4 x 1 1/8	do
9	2	3/8	7 1/4			4 3/4 x 1 1/8	do
10	32	3/8	7			4 3/4 x 1 1/8	B40, B41 to D43, 44, 72
11	40	3/8	2 1/4			3/4 x 3/8	B40, B41 to D43, D44, D72
12	40	3/8	2 3/4			3/4 x 3/8	B40, B41 to D48, 49, 50
13	32	3/8	2 1/4			3/4 x 3/8	B40, B41 to D27, 28, 29, 37, 38, 51
14	6	3/8	2 1/4			1 1/2 x 3/8	M58 to D48
15	6	3/8	3 1/8			1 1/2 x 3/8	M67 to D50
16	24	3/8	2 1/2			1 1/2 x 3/8	M52, 56, 64, 65 to D27, 29, 77, 78
17	8	3/8	2 1/2			1 1/2 x 3/8	M51, 59, 60, 68 to D38, 39, 41, 51
18	6	3/8	4			2 1/4 x 3/8	M54 to D45
19	6	3/8	4 1/4			2 1/4 x 3/8	M63 to D47
20	8	3/4		2 1/2 Hex Hex	Ordinary	1 1/2 x 3/8	M59, M58, M63, M67 to B40, 41, 44, 45, 32, 33, 36, 37
21	16	3/4		2 1/2 Hex Hex	Ordinary	1 1/2 x 3/8	M51, 52, 56, 59, 60, 61, 65, 68 to Fascia's
22	8	3/8	4			2 1/4 x 3/8	M53 to D64
23	8	3/8	4 1/4			2 1/4 x 3/8	M62 to D65
24	16	3/8	4 3/8			2 1/4 x 3/8	M55, M57 to D43, D73
25	16	3/8	4 5/8			2 1/4 x 3/8	M64, M66 to D43, D44
26	12	3/4		2 1/2 Hex Hex	Ordinary	1 1/2 x 3/8	M53, 55, 57, 62, 64, 66 to Fascia's
27	72	3/8	4 1/2			2 1/4 x 3/8	D43, 43, 44, 49, 45, 70, 71, 72, 73 to M175, 177, 179
28							
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46							

MARKS—SIDE FIGURE FOR 10 BY TOP FIGURE
SHEET NUMBER IS GIVEN IN FACE AT INTERSECTION

INDEX TO MARKS

AMERICAN BRIDGE COMPANY

GENERAL MARK G NAME OF MEMBER SHEET LETTER

G GIRDERS

0	1	2	3	4	5	6	7	8	9
A	101	101	101	101					
B	201	201	201	201					
C	301	301	301	301					
D	401	401	401	401					
E	501	501	501	501					
F	601	601	601	601					

GENERAL MARK CF NAME OF MEMBER SHEET LETTER

CF CROSS FRAMES

0	1	2	3	4	5	6	7	8	9
1	102	102	102	103	103	104	102	103	102
2									
3									
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9									

GENERAL MARK D NAME OF MEMBER SHEET LETTER

D DIAGONALS

0	1	2	3	4	5	6	7	8	9
1	105	105	105	105	105	105	105	105	105
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3									
4									
5									
6									
7									
8									
9									

GENERAL MARK S NAME OF MEMBER SHEET LETTER

S STRUTS

0	1	2	3	4	5	6	7	8	9
1	109	109	109	108	108	108	109	109	108
2	108	108	109	109	109	109	108	108	109
3	108	109	108	108	108	109	103	103	103
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GENERAL MARK M NAME OF MEMBER SHEET LETTER

M SHIMS

0	1	2	3	4	5	6	7	8	9
1									
2									
3	302	302							
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GENERAL MARK BR NAME OF MEMBER SHEET LETTER

BR BRACKETS

0	1	2	3	4	5	6	7	8	9
1	106	106	106	106	106	108	106	108	106
2									
3									
4									
5									
6									
7									
8									
9									

GENERAL MARK F NAME OF MEMBER SHEET LETTER

F FASCIA

0	1	2	3	4	5	6	7	8	9
1	107	107	107	107	107	107	107	107	107
2									
3									
4									
5									
6									
7									
8									
9									

SUMMARY OF SHEETS

CONTENTS	SHEET LETTER	SHEET NUMBERS
EXPANSION DAMS EDI, 2, 3, 4	—	302
LADDERS L1, L2, L3	—	202
MAN HOLE - M4	—	202

INDEX TO MARKS

DATE NAME FEL

DATE DRAWING TRENTON

DATE FABRICATION AMBRIDGE

ORDER No. Q4150

SHEET No. K1

NAME OF STRUCTURE

BANGOR-BREWER BRIDGE, PENOBSCOT RIVER, STATE OF MAINE

ERECTOR'S LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE COMPANY

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	THICKNESS OF MATERIAL CONNECTED	LOCATION
1	128	7/8	#7	Butt Hex	1 1/2	ED21, ED22 to Diaphragms
2	16	7/8	#9		2 1/2	ED21, ED22 to D38, S1, S2, 80
3	64	7/8	#7		1 1/2	ED27 to Diaphragms
4	4	7/8	#11		2 1/2	ED27 to D56
5	4	7/8	#12		2 1/2	ED27 to D58
6	4	7/8	#6		1 1/2	ED28 to Cross FRAMES-Q4150
7	4	7/8	#10		2 1/2	ED28 to CF1-Q4150
8	4	7/8	#9		1 1/2	ED28 to CF1-Q4150
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288 Washers 2 1/2 x 6 thick to 4 1/2
576 Washers 2 1/2 x 6 thick to 4 1/2

For use under nut of Dardelle
Rivet Bolts as required to
build up required grip as noted
on lines 1 thru 8.

FIELD RIVETS AND BOLTS

NAME DATE PRY 2-23-54

REVISIONS

DRAWING TR

FABRICATION TR

IN CHARGE OF Marks ORDER No. Q4149

Div 4 SHEET No. EF403

NAME OF STRUCTURE

Bangor-Brewer Bridge-Bangor, Me.

ERECTOR'S LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE COMPANY

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	THICKNESS OF MATERIAL CONNECTED	LOCATION
1	72	7/8	2 1/2		1 1/2	B47, B50 to M75, M85, D53, 55
2	72	7/8	2 1/2		1 1/2	B47, B50 to M75, M85, D54, 58
3	144	7/8	2 1/2		3 1/2	B47, B50 to M75, M85, D54, 58
4	48	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
5	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
6	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
7	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
8	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
9	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
10	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
11	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
12	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
13	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
14	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
15	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
16	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
17	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
18	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
19	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
20	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
21	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
22	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
23	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
24	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
25	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
26	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
27	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
28	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
29	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
30	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
31	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
32	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
33	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
34	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
35	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
36	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
37	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
38	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
39	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
40	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
41	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
42	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
43	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
44	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
45	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
46	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
47	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
48	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
49	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61
50	4	7/8	2 1/2		1 1/2	M75, M79 to D53, 55, 59, 61

FIELD RIVETS AND BOLTS

NAME DATE PRY 2-23-54

REVISIONS

DRAWING TR

FABRICATION TR

IN CHARGE OF Marks ORDER No. Q4149

Div 4 SHEET No. EF402

NAME OF STRUCTURE

Bangor-Brewer Bridge-Bangor, Me.

0 1 2 3 4 5 INCHES

SPECIFY UNDER D1

LDF = LIGHT DRIVE FIT
DF = DRIVE FIT
OF = ORDINARY FIT
(HOLE DIAMETER MINUS .01")

STANDARD WASHERS

TYPE	X	V	P
DIMENSION A	GRID + 1/8 OR 3/8	GRID - 1/8 OR 1/8	FOR AMBRIDGE FABRICATION FOR ORDINARY FIT TURNED BOLTS REDUCE DIMENSION A 1/8"

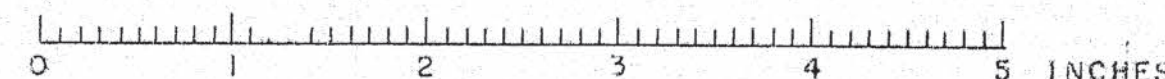
Nº REQD.	TYPE OF HEAD	SIZE OF REAMED HOLE	D1	D2	A	B	L	GRID	TYPE OF NUT	Nº OF NUTS EACH BOLT	TYPE WASHER	Nº AND SIZE OF WASHERS PER BOLT	LOCATION	SHEET NO. EACH CHAIN STRUTTING	CALCULATED WEIGHT TOTAL	SHIPMENTS
6	Hex	1 5/16	DF	7/8	6 3/4	1 1/4	8	6 3/8	Hex	1	X	1-2 1/4 x 3/8	Girs. to Pedestal			16
8	Hex	1 5/16	DF	7/8	6 3/8	1 3/8	7 1/2	6 1/4	Hex	1	X	1-2 1/4 x 3/8				21
2	Hex	1 5/16	DF	7/8	6	1 1/4	7 1/4	5 3/8	Hex	1	X	1-2 1/4 x 3/8				5
16	Hex	1 5/16	DF	7/8	5 3/8	1 3/8	7 1/4	5 3/4	Hex	1	X	1-2 1/4 x 3/8				40

TURNED BOLTS.
DIV. 2

RIVETS HOLES DATE NAME EBM

DATE DRAWING Traction FABRICATION Ambridge ORDER No. Q4150 SHEET No. C202

NAME OF STRUCTURE BANGOR-BREWER BRIDGE PENOBSCOT RIVER ME

[illegible][illegible]

AMERICAN BRIDGE COMPANY

TURNED BOLTS

5 TO IMPRESSED SLOT

STANDARD WASHERS

PLATE LOCK BEVEL

TYPE X V P

DIMENSION A GRID + 1/8" GRIP - 1/8" OR 1/8"

FOR AMBRIDGE FABRICATION FOR ORDINARY FIT TURNED BOLTS REDUCE DIMENSION A 1/8"

NO. REQD.	TYPE OF HEAD	SIZE OF REAMED HOLE	D	A	B	L	GRID	TYPE OF NUT	WE OF NUTS EACH BOLT	TYPE WASHER	NO. AND SIZE OF WASHERS EACH BOLT	LOCATION	SHEET NO. MACHINE CUT	SHEET NO. STRUCTURAL	CALCULATED WEIGHT TOTAL	SHIPMENTS
8	Hex	1 1/2	DF	3/8	6 1/4	1 1/4	7 1/2	6 1/2	Hex	1	X	1-2 1/2 x 3/8			2.0	
2	Hex	1 1/2	DF	3/8	5 1/8	1 1/8	7 1/4	5 1/4	Hex	1	X	1-2 1/2 x 3/8			5	
6	Hex	1 1/2	DF	3/8	6 1/8	1 1/8	8	6 1/2	Hex	1	X	1-2 1/2 x 3/8			1.6	
16	Hex	1 1/2	DF	3/8	5 1/8	1 1/8	6 3/4	5 1/4	Hex	1	X	1-2 1/2 x 3/8			3.8	
16	Hex	1 1/2	DF	3/8	2 3/8	1 3/8	3 3/4	2 1/4	Hex	1	X	1-2 1/2 x 3/8			2.8	

Location: Gir. to Pedestal at Piers

Location: Gir. to Pedestal at Abut.

TURNED BOLTS. DIV. 3

DATE: FEB 1911

DRAWINGS: TRENTON

FABRICATION: AMBRIDGE

ORDER NO. Q4150

SHEET NO. C302

NAME OF STRUCTURE: BANGOR-BREWER BRIDGE

PENOBSCOT RIVER, ME.

AMERICAN BRIDGE COMPANY

FIELD RIVETS AND BOLTS

LINE NO.	ACTUAL NUMBER REQ'D.	NO. SHIPPED	DIAM.	RIVETS	BOLTS	GRIP	CALCULATED WEIGHT TOTAL	SHIPMENTS
1								
2	8	12	3/8	6		4	1.9	
3	192	231	5/8			3 3/8	24.9	
4	4	6	5			3 1/2	6	
5	4	6	4 1/2			2 1/2	6	
6	4	6	4 1/2			2 1/2	6	
7	4	6	4 1/2			2 1/2	6	
8	4	6	4 1/2			2 1/2	6	
9	12	17	4			2 1/2	1.5	
10	67	82	3 3/8			2 1/2	7.0	
11	62	70	3 3/8			1 1/2	5.8	
12	39	50	3 3/8			1 1/2	4.1	
13	485	560	3 1/2			1 1/2	44.2	
14	266	317	3 3/8			1 1/2	22.8	
15	594	694	2 3/8			1 1/2	44.4	
16	136	167	2 1/2			1 1/2	10.4	
17	394	464	2 3/8			1 1/2	27.4	
18	548	642	2 1/2			1 1/2	34.6	
19	40	50	2 3/8			1 1/2	4.7	
20	48	58	3 1/4			1 1/2	4.3	
21								
22	8	11	3/8		3 Hex Hex Bev Ordinary	2 1/2	7	
23	20	25	3/8		2 1/4	1 1/2	1.5	
24								
25								
26								
27	28	36			Standard Beveled Washers - 1 1/2" hole		8	
28								
29	16	16			Standard Beveled Washers - 1 1/2" hole - For turned bolts.		3	
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								

FIELD RIVETS AND BOLTS FOR DIV. 3

DATE: FEB 1911

DRAWINGS: TRENTON

FABRICATION: AMBRIDGE

ORDER NO. Q4150

PAGE NO. C301

NAME OF STRUCTURE: BANGOR-BREWER BRIDGE

PENOBSCOT RIVER, ME.

AMERICAN BRIDGE COMPANY

FIELD RIVETS AND BOLTS

LINE NO.	ACTUAL NUMBER REQ'D.	NO. SHIPPED	DIAM.	RIVETS	BOLTS	GRIP	CALCULATED WEIGHT TOTAL	SHIPMENTS
1	8	19	3/8	4 1/2		3 3/8	1.9	
2	12	25	1/2	4 1/2		2 1/2	2.5	
3	28	44	1/2	4 1/2		2 1/2	4.1	
4	90	115	1/2	4 1/2		2 1/2	10.5	
5	61	80	1/2	4 1/2		2 1/2	7.0	
6	48	65	1/2	4 1/2		2 1/2	5.5	
7	8	19	3/8	3 1/2		2	1.6	
8	4	15	3/8	3 1/2		1 3/4	1.0	
9	8	19	3/8	3 1/2		1 3/4	1.5	
10	9	20	3/4	3 1/2		1 3/4	1.5	
11	64	85	3/8	3 1/2		1 1/2	6.1	
12	4	15	2 3/8			1 1/2	1.0	
13	56	75	2 3/8			1 1/2	5.0	
14	34	50	2 3/8			1 1/2	3.2	
15	6	17	2 1/2			1 1/2	1.0	
16	15	28	2 1/2			1 1/2	1.5	
17								
18								
19								
20								
21								
22								
23								
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25								
26								
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28								
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45								

FIELD RIVETS AND BOLTS

DATE: FEB 1911

DRAWINGS: TRENTON

FABRICATION: AMBRIDGE

ORDER NO. Q4150

PAGE NO. C203

NAME OF STRUCTURE: BANGOR-BREWER BRIDGE

BANGOR, MAINE

0 1 2 3 4 5 INCHES

LINE NO.	ACTUAL NUMBER REQ'D.	NO. SHIPPED	DIAM.	RIVETS		BOLTS					GRIP	CALCULATED WEIGHT TOTAL	SHIPMENTS
						LENGTH UNDER HEAD	HEAD	NUT	WASHER	TYPE OF BOLT			
1													
2													
3	40	50	3/8	4 3/8							2 1/2		51
4	12	17		4 3/8							2 3/8		17
5	10	13		4 1/2							2 1/2		12
6	36	46		3 5/8							1 3/8		37
7	80	95		3 1/2							1 3/8		70
8	12	17		2 3/4							1 3/8		11
9	180	217		2 3/8							1 1/2		154
10	60	75		2 1/2							1 5/8		47
11	526	614		2 3/8							1 3/8		362
12	146	177		2 1/4							1 1/2		101
13	180	217		2 1/8							1 3/8		118
14	32	42		3 3/8							2 1/4		36
15	32	42		3 3/4							2		35
16													
17													
18													
19	20	25	3/4			2 3/4	Hex	Hex	Bev.	Ordinary	1 3/4		15
20													
21													
22													
23	20	25		Standard Beveled Washers - 1 3/16" Hole									6
24													
25													
26													
27													
28													
29													
30													
31													
32													
33													
34													
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40													
41													
42													
43													
44													

FIELD RIVETS AND BOLTS

DIV. 5

DATE
APR 21

DATE
10

DRAWN BY
Trenton

FABRICATION
Ambridge

Marks
ORDER NO.
Q4150

PAGE No.
C.501

NAME OF STRUCTURE

BANGOR BREWER BRIDGE PENOBSCOT RIVER, ME.

[illegible]

SPECIFY UNDER D1

LDF = LIGHT DRIVE FIT
 DF = DRIVE FIT
 OF = ORDINARY FIT
 (HOLE DIAMETER MINUS .001")

STQ IMPRESSED SLOT

GRID

D1

A

B

L

D2

78°

STANDARD WASHERS

PLATE

LOCK

BEVEL

TYPE	X	V	P
DIMENSION A GRID + 1/16"		GRID - 1/16 OR 1/8"	
FOR ANDBRIDGE FABRICATION FOR ORDINARY FIT TURNED BOLTS REDUCE DIMENSION A 1/8"			

Nº REQD.	TYPE OF HEAD	SIZE OF REAMED HOLE	D1	D2	A	B	L	GRID	TYPE & AMT. OF NUTS EACH BOLT	TYPE & AMT. OF WASHERS	IN. AND SIZE OF WASHER EACH BOLT	LOCATION	SHEET IN. HGT. IN. SPACING	SHEET IN. HGT. IN. SPACING	CALCULATED HEIGHT TOTAL	SHIMMENTS	
6	Hex	1 5/16	DF	8	6 1/4	1 1/4	8	6 3/8	Hex	1	X	1-24 x 3/8	Girts to Pedestal			16	
8	Hex	1 5/16	DF	8	6 3/8	1 3/8	7 1/4	6 1/4	Hex	1	X	1-24 x 3/8				21	
2	Hex	1 5/16	DF	8	6	1 1/4	7 1/4	5 3/8	Hex	1	X	1-24 x 3/8				5	
16	Hex	1 5/16	DF	8	5 3/8	1 3/8	7 1/4	5 1/4	Hex	1	X	1-24 x 3/8				40	

TURNED BOLTS.
DIV. 4

RIVETS HOLES

DATE
EJW

DATE
FEB 10

DRAWINGS
TRENTER

FABRICATION
AMBRIAGE

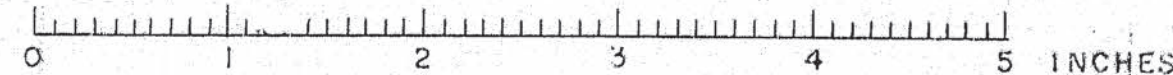
ORDER NO.
Q4150

SHEET No.
C402

NAME OF STRUCTURE
BANGOR-BREWER BRIDGE

PENOBSCOT RIVER ME

62-227



ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE COMPANY
DIVISION
UNITED STATES STEEL COMPANY

LINE NO.	NO. PCS.	DIAM.	RIVETS		BOLTS				GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD	NUT	WASHER	TYPE OF BOLT				
1	12	3/8	2 3/8						3/16	3/8	D2 to CF4, CF6
2	20	3/8	2 3/8						1/8	3/8	D3 to CF6
3	32	3/8	2 3/8						1/8	3/8	D1 to CF4
4	4	3/8	2 3/8						1/8	3/8	D2 to S30
5	8	3/8	2 3/8						3/8	3/8	D2 to S26, S27
6	8	3/8	2 3/8						3/8	3/8	
7											
8	8	3/8							5/16	3/8	Fascia C to BR1, BR3, BR6, BR7, BR9
9	20	3/8							1/4	3/8	" " BR2
10											
11	2	DF							5/16	3/4	Gir. to Pedestal @ Piers
12	2								5/16	3/4	" " " "
13	6								5/16	3/4	Gir. to Pedestal @ Piers
14	6								5/16	3/4	" " " "
15	16								5/16	3/4	" " " "
16	16	DF							5/16	3/4	Gir. to Pedestal @ Abuts.
17											
18											
19											
20											
21											
22											
23	6	3/8	3 3/8						5/16	3/4	52 1/2 (Div. 3) to Gir.
24	363	3/8	3 3/8						1 3/8	3/8	Cov. Pls. to Fig. 15
25	15	3/8	3 3/8						2 3/8	3/8	Cov. Pls. to Fig. 15 to Guss. Pl.
26	192	3/8	5 3/8						3 3/8	3/8	Spl. Pls. to Fig. 15 to Web
27											
28	8	3/8	6						4	5/16	" " " " to stiff ls
29	72	3/8	3 3/8						1 3/8	3/8	stiff to spl. pl. to web
30	288	3/8	2 3/8						1 3/8	3/8	Spl. Pls. to Web
31											
32											
33											
34	48	3/8	3 3/8						1 3/8	3/8	GIR to G4A, G1E to G4E
35	40	3/8	3 3/8						1 3/8	3/8	" " " "
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											
46											

FIELD RIVETS AND BOLTS

FOR ONE DIV. - DIVS 1 & 3

NAME	DATE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE COMPANY
DIVISION
UNITED STATES STEEL COMPANY

LINE NO.	NO. PCS.	DIAM.	RIVETS		BOLTS				GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION			
					LENGTH UNDER HEAD	HEAD	NUT	WASHER				TYPE OF BOLT		
1	40	3/8	4 3/8						2 3/8	3/8	3/8	3/8	3/8	Sdk Brkt. # Cr. Fr. Conn. L to Gir. at Pier
2	12	3/8	4						2 3/8	3/8	3/8	3/8		Sdk Brkt. conn. L to Gir.
3	96	3/8	3 3/8						1 3/8	3/8	3/8	3/8		" " " " " "
4	4	3/8	5						3 1/8	3/8	3/8	3/8		BR6 (Div. 3) BR1 (Div. 1) to Gir. Fig.
5	4	3/8	4 3/8						2 15/16	3/8	3/8	3/8		" " " " " "
6	40	3/8	3 3/8						2 3/8	3/8	3/8	3/8		BR2 (Div. 1) BR5 (Div. 3) " " " "
7	4	3/8	4 3/8						2 3/8	3/8	3/8	3/8		BR7 (Div. 1) BR9 (Div. 3) " " " "
8	4	3/8	4 1/2						2 3/8	3/8	3/8	3/8		" " " " " "
9	12	3/8	2 3/8						1 3/8	3/8	3/8	3/8		Fascia Struts to Gir. Fig.
10	36	3/8	3 3/8						1 3/8	3/8	3/8	3/8		" " " " " "
11	6	3/8	3 3/8						2 3/8	3/8	3/8	3/8		" " " " " "
12	18	3/8	3 3/8						1 3/8	3/8	3/8	3/8		" " " " " "
13														
14	192	3/8	2 3/8						1 3/8	5/16	1/2	3/4		D6 to Girs
15	120	3/8	2 3/8						3/8	5/16	1/2	3/4		D7, D8, D9, D10 to Girs. G2 1/2, G3 1/2, G4 1/2
16	24	3/8	2 3/8						1 3/8	3/8	3/8	3/8		D8, D9 to G1E
17	36	3/8	2 3/8						3/8	3/8	3/8	3/8		CF1, CF2 to Gir. Fig.
18	190	3/8	2 3/8						1 3/8	5/16	1/2	3/4		CF3, CF5, CF9, CF11 to CF16 incl. to Gir. Fig.
19														
20	16	3/8	2 3/8						1 3/8	5/16	3/8	3/4		BR6 (Div. 1) L to Cross Frames
21	60	3/8	2 3/8						1 3/8	1/2	3/8	3/4		BR2 (Div. 1) " " " "
22	12	3/8	2 3/8						3/8	5/16	3/8	3/4		BR5 (Div. 3) " " " "
23														BR7 (Div. 1) " " " "
24														BR9 (Div. 3) " " " "
25	29	3/8	3 3/8						2	3/8	3/8	3/8		S26, S27 to Gir.
26	29	3/8	3 3/8						1 3/8	3/8	3/8	3/8		" " " " " "
27	10	3/8	3 3/8						1 3/8	3/8	3/8	3/8		S30 " " " "
28	10	3/8	3 3/8						1 3/8	3/8	3/8	3/8		S30 " " " "
29														
30	36	3/8	3 3/8						1 3/8	3/8	3/8	3/8		BR1, BR3, BR8 to Gir. Stiff.
31	180	3/8	2 3/8						1 3/8	3/8	3/8	3/8		BR2 (Div. 1) " " " "
32	36	3/8	3 3/8						1 3/8	3/8	3/8	3/8		BR5 (Div. 3) " " " "
33														BR7 (Div. 1) " " " "
34														BR9 (Div. 3) " " " "
35	78	3/8	2 3/8						1 3/8	5/16	3/8	3/4		CF1E, CF2 to Gir. Stiff.
36	130	3/8	2 3/8						1 3/8	5/16	3/8	3/4		CF3E, CF9E, CF11 to CF16 incl. to Ext. Girs
37	180	3/8	2 3/8						1 3/8	5/16	3/8	3/4		" " " " " "
38	80	3/8	3 3/8						1 3/8	3/8	3/8	3/8		CF4, CF6 to Gir.
39														
40	32	3/8	2 3/8						1 3/8	3/8	3/8	3/8		D1 to Gir
41	20	3/8	2 3/8						1 3/8	3/8	3/8	3/8		D3 to Gir
42	10	3/8	2 3/8						1 3/8	3/8	3/8	3/8		S30 to Gir
43	16	3/8	2 3/8						2	3/8	3/8	3/8		S26, S27 to Gir
44														
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FIELD RIVETS AND BOLTS				NAME DATE		REVISIONS	DRAWINGS TRENKLE PABRICATOR Ambridge	IN CHARGE OF MARKS ORDER NO. Q 4150	SHEET No. EF 101
For one Div. - Divs. 1 & 3				E.B.M.					
BANGOR-BREWER BRIDGE				NAME OF STRUCTURE		PENOBSCOT RIVER, ME.			

AMERICAN BRIDGE COMPANY

#	LINE	ACTUAL NUMBER REQ'D.	NO. SHIPPED	DIAM.	RIVETS		BOLTS				GRIP		CALCULATED WEIGHT TOTAL	SHIPMENTS
							LENGTH UNDER HEAD	HEAD	NUT	WASHER				
1		20	35	3/8	4 1/2							2 3/8		34
2		16	30		4 3/8							2 3/8		28
3		16	30		4 1/2							2 3/8		27
4		76	100		4 3/8							2 3/8		29
5		40	57		3 3/8							2 3/8		48
6		40	57		3 3/4							2 3/8		47
7		16	30		3 5/8							2 3/8		24
8		64	85		3 3/8							1 3/2		61
9		48	66		2 3/4							1 3/2		44
10		21	35		2 3/8							5/8		19
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FIELD RIVETS AND BOLTS

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MARKS

ORDER No.

Q4150

PAGE No.

C502

NAME

STRUCTURE

BANGOR - BREWER BRIDGE

BANGOR, MAINE

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD NUT WASH-ER TYPE OF BOLT			
1	8	3/8	4			24 3/8 3/8 3/8	sdwk brkt conn. L to Gir
2	4	3/8	4 1/2			2 1/2 3/8 3/8 3/8	" " " " "
3	64	3/8	3 1/2			1 1/2 3/8 3/8 3/8	" " " " "
4	32	3/8	3 1/2			1 1/2 3/8 3/8 3/8	" " " " "
5	40	3/8	4 1/2			2 1/2 3/8 3/8 3/8	" " " " " at Pier
6							
7							
8	32	3/8	4 1/2			2 1/2 3/8 3/8 3/8	sdwk brkt to Gir. Flg.
9	8	3/8	4 1/2			2 1/2 3/8 3/8 3/8	" " " " "
10	8	3/8	4 1/2			2 1/2 3/8 3/8 3/8	" " " " "
11	4	3/8	5 1/2			3 1/2 3/8 3/8 3/8	" " " " " At Field Spl.
12	4	3/8	5 1/2			3 1/2 3/8 3/8 3/8	" " " " " At Field Spl.
13							
14							
15	16	3/8	2 1/2			1 1/2 3/8 3/8 3/8	538 578 588 (D.W.) to Gir
16	26	3/8	3 1/2			1 1/2 3/8 3/8 3/8	sdwk struts to Gir
17	6	3/8	4 1/2			2 1/2 3/8 3/8 3/8	" " " " "
18	6	3/8	3 1/2			1 1/2 3/8 3/8 3/8	" " " " "
19	18	3/8	4 1/2			2 1/2 3/8 3/8 3/8	" " " " "
20	6	3/8	4 1/2			2 1/2 3/8 3/8 3/8	" " " " "
21	6	3/8	4 1/2			2 1/2 3/8 3/8 3/8	" " " " "
22	6	3/8	4 1/2			2 1/2 3/8 3/8 3/8	" " " " " At Field Spl.
23							
24							
25	192	3/8	2 1/2			1 1/2 3/8 3/8 3/8	D11, D12 to Gir
26	60	3/8	2 1/2			1 1/2 3/8 3/8 3/8	D13 " Gir
27	56	3/8	2 1/2			1 1/2 3/8 3/8 3/8	D14 " "
28	14	3/8	2 1/2			1 1/2 3/8 3/8 3/8	D15 " Int. Gir.
29	14	3/8	2 1/2			1 1/2 3/8 3/8 3/8	D15 " Ext. "
30	16	3/8	2 1/2			1 1/2 3/8 3/8 3/8	D16 " " "
31	16	3/8	2 1/2			1 1/2 3/8 3/8 3/8	D16 " Int. Gir.
32	64	3/8	2 1/2			1 1/2 3/8 3/8 3/8	D17 " Girs.
33	190	3/8	2 1/2			1 1/2 3/8 3/8 3/8	CF38 CF5 CF9 CF10 CF11 CF12 to Gir. Flg.
34	38	3/8	2 1/2			1 1/2 3/8 3/8 3/8	CF13 CF14 CF15 CF16 " " "
35							
36	60	3/8	2 1/2			1 1/2 3/8 3/8 3/8	BR38 (D.W.) Cr. Frames
37	12	3/8	2 1/2			1 1/2 3/8 3/8 3/8	BR38 (D.W.) " "
38	12	3/8	2 1/2			1 1/2 3/8 3/8 3/8	BR38 (D.W.) " "
39	12	3/8	2 1/2			1 1/2 3/8 3/8 3/8	BR38 (D.W.) " "
40							
41							
42	29	3/8	3 1/2			1 1/2 3/8 3/8 3/8	528 529 to Gir. Flgs.
43	10	3/8	3 1/2			1 1/2 3/8 3/8 3/8	" " " " "
44	10	3/8	3 1/2			1 1/2 3/8 3/8 3/8	" " " " "
45	10	3/8	3 1/2			1 1/2 3/8 3/8 3/8	" " " " "

FIELD RIVETS AND BOLTS

For one Div. - Divs. 2 & 4

NAME DATE
EEM
DRAWINGS
Trenton
FABRICATION
Ambridge
IN CHARGE OF
ORDER No.
Q4150
SHEET No.
EF201

NAME OF STRUCTURE
BANGOR-BREWER BRIDGE
PENOBSCOT RIVER, ME.

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD NUT WASH-ER TYPE OF BOLT			
1	3	3/8	3 1/2			1 1/2 3/8 3/8 3/8	hk 101 G4A to G4A
2	9	3/8	3 1/2			2 1/2 3/8 3/8 3/8	" " " " "
3							
4							
5	12	3/4				1 1/2 3/4 3/4 3/4	Field Rivets Bot. Flg.
6	12	3/4				1 1/2 3/4 3/4 3/4	G1A
7	12	3/4				1 1/2 3/4 3/4 3/4	G3A
8							G4A
9	32	2 1/2				1 1/2 3/4 3/4 3/4	Field Rivets Top Flg.
10	64	3/4				1 1/2 3/4 3/4 3/4	" All girders
11	16	3/2				1 1/2 3/4 3/4 3/4	
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FIELD RIVETS AND BOLTS

Div. 1 - LAT. Ps to G4A

NAME DATE
FEL 5134
DRAWINGS
Trenton
FABRICATION
Ambridge
IN CHARGE OF
MARKS
ORDER No.
Q4150
SHEET No.
EF104

NAME OF STRUCTURE
BANGOR-BREWER BRIDGE
BANGOR, MAINE

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD NUT WASH-ER TYPE OF BOLT			
1	6	3/8	2 1/2			1 1/2 3/8 3/8 3/8	pa 101 G2A to G2A
2	8	3/8	2 1/2			1 1/2 3/8 3/8 3/8	pt 101 G2A " "
3	7	3/8	1 1/2			1 1/2 3/8 3/8 3/8	pd 101 G2A " "
4	11	3/8	1 1/2			1 1/2 3/8 3/8 3/8	" " " " "
5	8	3/8	1 1/2			1 1/2 3/8 3/8 3/8	ph 101 G2A " "
6	8	3/8	1 1/2			1 1/2 3/8 3/8 3/8	pp 101 G2A " "
7	5	3/8	1 1/2			1 1/2 3/8 3/8 3/8	py 101 G2A " "
8	3	3/8	2 1/2			1 1/2 3/8 3/8 3/8	" " " " "
9	6	3/8	1 1/2			1 1/2 3/8 3/8 3/8	hb 101 G2A " "
10	12	3/8	1 1/2			1 1/2 3/8 3/8 3/8	pba 101 G2A " "
11	13	3/8	1 1/2			1 1/2 3/8 3/8 3/8	ack 101 G2A " "
12	10	3/8	2			1 1/2 3/8 3/8 3/8	hh 101 G2A " "
13	2	4 1/2	32			1 1/2 3/8 3/8 3/8	" " " " "
14	6	3/8	2			1 1/2 3/8 3/8 3/8	hp 101 G2A " "
15	2	4 1/2	32			1 1/2 3/8 3/8 3/8	" " " " "
16	12	3/8	1 1/2			1 1/2 3/8 3/8 3/8	pbn G2A " "
17	12	3/8	1 1/2			1 1/2 3/8 3/8 3/8	pbn G2A " "
18	6	3/8	2 1/2			1 1/2 3/8 3/8 3/8	hm 101 G2A " "
19	9	3/8	1 1/2			1 1/2 3/8 3/8 3/8	kg 101 G2A " "
20	10	3/8	2			1 1/2 3/8 3/8 3/8	hg 101 G1A to G1A
21	2	4 1/2	32			1 1/2 3/8 3/8 3/8	" " " " "
22	6	3/8	1 1/2			1 1/2 3/8 3/8 3/8	pa 101 G3A to G3A
23	8	3/8	1 1/2			1 1/2 3/8 3/8 3/8	ps 101 G3A " "
24	7	3/8	1 1/2			1 1/2 3/8 3/8 3/8	pd 101 G3A " "
25	11	3/8	1 1/2			1 1/2 3/8 3/8 3/8	" " " " "
26	8	3/8	1 1/2			1 1/2 3/8 3/8 3/8	pk 101 G3A " "
27	8	3/8	1 1/2			1 1/2 3/8 3/8 3/8	pm 101 G3A " "
28	8	3/8	2 1/2			1 1/2 3/8 3/8 3/8	pbb 101 G3A " "
29	6	3/8	1 1/2			1 1/2 3/8 3/8 3/8	hb 101 G3A " "
30	5	3/8	1 1/2			1 1/2 3/8 3/8 3/8	pbd 101 G3A " "
31	7	3/8	1 1/2			1 1/2 3/8 3/8 3/8	" " " " "
32	7	3/8	1 1/2			1 1/2 3/8 3/8 3/8	pbf 101 G3A " "
33	6	3/8	1 1/2			1 1/2 3/8 3/8 3/8	" " " " "
34	6	3/8	2			1 1/2 3/8 3/8 3/8	hp 101 G3A " "
35	2	4 1/2	32			1 1/2 3/8 3/8 3/8	" " " " "
36	10	3/8	2			1 1/2 3/8 3/8 3/8	hh 101 G3A " "
37	2	4 1/2	32			1 1/2 3/8 3/8 3/8	" " " " "
38	12	3/8	1 1/2			1 1/2 3/8 3/8 3/8	pbt 101 G3A " "
39	12	3/8	1 1/2			1 1/2 3/8 3/8 3/8	pbt 101 G3A " "
40	6	3/8	2 1/2			1 1/2 3/8 3/8 3/8	hm 101 G3A " "
41	9	3/8	1 1/2			1 1/2 3/8 3/8 3/8	kg 101 G3A " "
42	18	3/8	1 1/2			1 1/2 3/8 3/8 3/8	pca 101 G3A " "
43	6	3/8	1 1/2			1 1/2 3/8 3/8 3/8	" " " " "
44	11	3/8	1 1/2			1 1/2 3/8 3/8 3/8	hc 101 G4A to G4A
45	10	3/8	2			1 1/2 3/8 3/8 3/8	hh 101 G4A to G4A
46	2	4 1/2	32			1 1/2 3/8 3/8 3/8	" " " " "

FIELD RIVETS AND BOLTS

Div. 1 - LAT. Ps to G4A

NAME DATE
FEL 5134
DRAWINGS
Trenton
FABRICATION
Ambridge
IN CHARGE OF
MARKS
ORDER No.
Q4150
SHEET No.
EF103

NAME OF STRUCTURE
BANGOR-BREWER BRIDGE
BANGOR, MAINE

0 1 2 3 4 5 INCHES

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

UNITED STATES STEEL COMPANY											
LINE NO.	NO. PCS.	DIAM.	RIVETS		BOLTS			GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION	
					LENGTH UNDER HEAD	HEAD	NUT				WASHER
1	4	3/8	3/8						12	3/8	Field Rivets Top Flg G1B, G4B
2	8		3/8						2	3/8	"
3	16		4/4						2 1/2	3/8	"
4	28		2 3/4						1 1/2	3/4	Field Rivets Top Flg G2B, G3B
5	4		3 5/8						1 3/8	3/4	"
6	4		2 3/8						1 1/2	3/4	"
7	8		3/2						1 3/4	3/4	"
8	16		4						2 1/2	3/4	"
9											
10											
11											
12											
13											
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45											

FIELD RIVETS AND BOLTS

DINZ-LATERAL PLATES TO GIRDER

NAME

DATE

FEL

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.		NO. PCS.	DIAM.	RIVETS		BOLTS				GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
						LENGTH UNDER HEAD	HEAD	NUT	WASH-ER	TYPE OF BOLT		
1												RATES TO GIRDER G2B
2		8	3/8								1 1/2	pd 201 G2B
3		6	2 3/8								1 1/2	pf 201 G2B
4		12	3 3/8								1 1/2	"
5		8	2 3/8								1 1/2	pk 201 G2B
6		8	3 3/8								1 1/2	pt 201 G2B
7		8	3 3/8								1 1/2	pv 201 G2B
8		7	3 3/8								2 1/2	pbd 201 G2B
9		9	3 3/4								1 3/8	pag 201 G2B
10		3	4								2 1/2	"
11		6	3 3/8								2 1/2	hm 201 G2B
12		6	3 3/8								2 1/2	hm 201 G2B
13		14	4 3/8								2 1/2	pdk 201 G2B
14		12	4 3/8								2 1/2	hc 201 G2B
15		2	4 3/8								3 1/2	"
16		8	4 3/8								2 1/2	hw 201 G2B
17		2	4 3/8								3 3/8	"
18		4	4 3/4								2 1/2	pba 201 G2B
19		12	3 3/8								2 1/2	"
20		9	4								2 1/2	kg 201 G2B
21												RATES TO GIRDER G3B
22		2	2 3/8								1 1/2	pa 201 G3B
23		6	2 3/8								1 1/2	pf 201 G3B
24		12	3 3/8								1 1/2	"
25		4	2 3/8								1 1/2	pm 201 G3B
26		4	3 3/8								1 1/2	"
27		8	3 3/8								1 1/2	pp 201 G3B
28		8	3 3/8								1 1/2	py 201 G3B
29		7	3 3/8								2 1/2	pbd 201 G3B
30		12	4								2 1/2	pac 201 G3B
31		6	3 3/8								2 1/2	hm 201 G3B
32		14	4 3/8								2 1/2	pak 201 G3B
33		8	4 3/8								2 1/2	hw 201 G3B
34		2	4 3/8								3 3/8	"
35		16	4 3/4								2 1/2	pau 201 G3B
36		9	4								2 1/2	kg 201 G3B
37		15	2 3/8								1 1/2	pca 101 G3B
38		6	2 3/4								1 1/2	"
39												RATES TO GIRDER G4B
40		12	4 3/8								2 1/2	hb 201 G4B
41		2	4 3/8								3 3/8	"
42		24	4 3/4								2 1/2	Field Rivet Bot Flg G1B, G4B
43		12	4								2 1/2	Field Rivet Bot Flg G2B
44		12	4 3/4								2 1/2	Field Rivet Bot Flg G3B
45		28	2 3/4								1 1/2	Field Rivet Top Flg G1B, G4B
46		4	3 3/8								2 1/2	"
FIELD RIVETS AND BOLTS												
Div 2 LATERAL PLATES TO GDR												
BANGOR - BREWER BRIDGE												
BANGOR, MAINE												
NAME OF STRUCTURE												
FEL												
DRAWINGS												
TRENTON												
IN CHARGE OF												
MARKS												
ORDER No.												
FABRICATION												
AMBRIDGE												
Q4150												
SHEET No.												
EF203												

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS		BOLTS				GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
					LENGTH UNDER HEAD	HEAD	NUT	WASHER			
1											
2	12	3/8							3/4	3/8	Ladder to Gir.
3	12	3/8							2 1/4	3/8	" " "
4											
5											
6	124	3/8							1 5/8	3/8	Subst Brkts & Cr. Frs. to Gir. Stiffeners
7	216	3/8							1 5/8	3/8	" " to Stiffs.
8	156	3/8							1 1/2	3/8	Cr. Frs. to Ext. Girs.
9	216	3/8							5/8	5/16	" " " Int. "
10											
11											
12	20	7/8							1 1/2	5/16	D3 to Gir
13	32	3/8							1 1/2	5/16	D1 " "
14	20	3/8							1 1/2	3/8	D3 " CFG
15	32	3/8							1 1/2	3/8	D1 " CFG
16	12	3/8							1 1/2	3/8	D2 " CFG, CFG
17	8	3/8							3/4	1/2	" " S28, S29
18	4	3/8							1 1/2	3/8	" " S16
19	16	3/8							1 1/2	1/2	S28, S29 to Gir Gus.
20	10	3/8							1 1/2	3/8	S16 " " "
21											
22											
23	225	3/8							2 1/2	1/2	Cov. Pls. to Flg. Ls
24	39	3/8							2 1/2	1/2	Spl. Pls. to Bot. Flg. Ls to Gus Pls.
25	235	3/8							2 1/2	1/2	Cov. Pls. to Flg. Ls
26	19	3/8							2 1/2	1/2	" " Bot. Flg. Ls to Gus Pls.
27	232	3/8							3 1/2	1/2	Spl. Pls. to Flg. Ls to web
28	4	3/8							2 1/2	1/2	Gus. Pls. to G1
29	8	3/8							4 1/2	1/2	" " " " " to Stiffs.
30	504	3/8							1 1/2	3/8	Spl. Pls. to web
31	72	3/8							2 1/2	3/8	" " " " " to Stiffs
32											
33											
34	4	3/8							2 1/2	1/2	Fascia L to BR76 (Div. 2)
35	24	3/8							1 1/2	1/2	" " BR76, BR56 (Div. 2)
36											
37											
38	6	DF							6 3/4	3/8	Gir. to Pedestal & Piers
39	6	DF							6 3/4	3/8	" " " " "
40	2	DF							6 3/4	3/8	" " " " "
41	2	DF							5 3/4	3/8	" " " " "
42	16	DF							5 3/4	3/8	" " " " "
43											
44	48	3/8							1 1/2	3/4	G1B to G4B, G1D to G4D
45	24	3/8							2 1/2	3/8	G1B to G4B, G1D to G4D
46	24	3/8							1 1/2	1/2	G2B to G3B, G2D to G3D
FIELD RIVETS AND BOLTS											
FOR ONE DIV. - Divs. 2 & 4											
NAME DATE											
FBR											
DRAWING											
FABRICATION											
IN CHARGE OF											
WORKS											
ORDER NO.											
Ambridge											
Q4150											
SHEET No.											
EF202											
NAME OF STRUCTURE											
BANGOR-BREWER BRIDGE PENOBSCOT RIVER, ME											

0 1 2 3 4 5 INCHES

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
							PLATES TO GIRDER G2D
1	8	3/8	2 3/8		1 1/2	3/8	pd 201 G2D
2	6	3/8	2 3/8		1 1/2	3/8	pf 201 G2D
3	12	3/8	3 3/8		1 1/2	3/8	"
4	8	3/8	2 3/8		1 1/2	3/8	pk 201 G2D
5	8	3/8	2 3/8		1 1/2	3/8	pt 201 G2D
6	8	3/8	2 3/8		1 1/2	3/8	pv 201 G2D
7	8	3/8	2 3/8		1 1/2	3/8	pbd 201 G2D
8	7	3/8	2 3/8		1 1/2	3/8	pag 201 G2D
9	9	3/4	3 3/4		2 1/2	3/4	"
10	3	4	4		2 1/2	3/4	hm 201 ^R G2D
11	6	3/8	2 3/8		2 1/2	3/8	hm 201 ^L G2D
12	6	3/8	2 3/8		2 1/2	3/8	pa G2D
13	14	4/4	4 3/4		2 3/8	3/8	hf ^R G2D
14	8	4/4	4 3/4		2 3/8	3/8	"
15	2	4/8	4 3/8		2 3/8	3/8	hc ^L G2D
16	2	4/8	4 3/8		2 3/8	3/8	"
17	2	4/8	4 3/8		2 3/8	3/8	ph G2D
18	4	4/4	4 3/4		2 3/8	3/8	"
19	12	3/8	2 3/8		2 1/2	3/8	kg 201 G2D
20	9	4	4		2 1/2	3/4	PLATES TO GIRDER G3D
21							pa 201 G3D
22	2	2 3/8	2 3/8		1 1/2	3/8	pf 201 G3D
23	6	2 3/8	2 3/8		1 1/2	3/8	"
24	12	3/8	2 3/8		1 1/2	3/8	pm 201 G3D
25	4	2 3/8	2 3/8		1 1/2	3/8	"
26	4	3/8	2 3/8		1 1/2	3/8	pp 201 G3D
27	8	3/8	2 3/8		1 1/2	3/8	py 201 G3D
28	8	3/8	2 3/8		2 1/2	3/8	pbd 201 G3D
29	7	3/8	2 3/8		2 1/2	3/8	pac 201 G3D
30	12	4	4		2 1/2	3/4	hm 201 ^L G3D
31	6	3/8	2 3/8		2 1/2	3/8	pd G3D
32	14	4/4	4 3/4		2 3/8	3/8	hf ^L G3D
33	8	4/8	4 3/8		2 3/8	3/8	"
34	2	4/8	4 3/8		2 3/8	3/8	pg G3D
35	16	4/4	4 3/4		2 3/8	3/8	kg 201 G3D
36	9	4	4		2 1/2	3/4	pa 201 G3D
37	15	2 3/8	2 3/8		1 1/2	3/8	"
38	6	2 3/8	2 3/8		1 1/2	3/8	hb G4D to Girder G4D
39	12	4/8	4 3/8		2 3/8	3/8	"
40	2	4/8	4 3/8		2 3/8	3/8	Field Rivets Bot Flg G1D, G4D
41	24	4/4	4 3/4		2 3/8	3/8	Field Rivets Bot Flg G2D
42	12	4	4		2 3/8	3/8	Field Rivets Bot Flg G3D
43	12	4/4	4 3/4		2 3/8	3/8	Field Rivets Top Flg G1D, G4D
44	28	2 3/8	2 3/8		1 1/2	3/8	"
45	4	3/8	2 3/8		1 1/2	3/8	"
46	4	3/8	2 3/8		1 1/2	3/8	"

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
1							PLATES TO G2E
2	6	3/8	2 3/8		1 1/2	3/8	pa 101 G2E
3	8	3/8	2 3/8		1 1/2	3/8	pt 101 G2E
4	7	3/8	2 3/8		1 1/2	3/8	pd 101 G2E
5	11	3/4	3 3/4		1 1/2	3/8	"
6	8	3/4	3 3/4		1 1/2	3/8	ph 101 G2E
7	8	3/4	3 3/4		1 1/2	3/8	pp 101 G2E
8	5	3/4	3 3/4		1 1/2	3/8	py 101 G2E
9	3	3/8	2 3/8		2 1/2	3/8	"
10	6	3/8	2 3/8		1 1/2	3/8	hb 101 ^L G2E
11	13	3/4	3 3/4		1 1/2	3/8	pf G2E
12	6	3/4	3 3/4		2	3/8	hp 101 ^L G2E
13	2	4/4	4 3/4		3 1/2	3/4	"
14	10	3/4	3 3/4		2	3/8	hh 101 ^R G2E
15	2	4/4	4 3/4		3 1/2	3/4	"
16	12	3/4	3 3/4		1 1/2	3/8	ph G2E
17	6	3/8	2 3/8		2 1/2	3/8	hm 101 ^L G2E
18	9	3/4	3 3/4		1 1/2	3/8	kg 101 G2E
19							PLATES TO G3E
20	6	2 3/8	2 3/8		1 1/2	3/8	pa 101 G3E
21	8	2 3/8	2 3/8		1 1/2	3/8	pe 101 G3E
22	7	3/8	2 3/8		1 1/2	3/8	pd 101 G3E
23	11	3/4	3 3/4		1 1/2	3/8	"
24	8	3/4	3 3/4		1 1/2	3/8	pk 101 G3E
25	8	3/4	3 3/4		1 1/2	3/8	pm 101 G3E
26	8	3/8	2 3/8		2 1/2	3/8	pb 101 ^L G3E
27	6	3/8	2 3/8		1 1/2	3/8	hb 101 ^R G3E
28	5	3/8	2 3/8		1 1/2	3/8	pb G3E
29	7	3/4	3 3/4		1 1/2	3/8	"
30	6	3/4	3 3/4		2	3/8	hp 101 ^R G3E
31	2	4/4	4 3/4		3 1/2	3/4	"
32	10	3/4	3 3/4		2	3/8	hh 101 ^L G3E
33	2	4/4	4 3/4		3 1/2	3/4	"
34	12	3/8	2 3/8		1 1/2	3/8	pk G3E
35	6	3/8	2 3/8		2 1/2	3/8	hm 101 ^R G3E
36	9	3/4	3 3/4		1 1/2	3/8	kg 101 G3E
37	18	2 3/8	2 3/8		5/8	3/8	pa 101 G3E
38	6	2 3/8	2 3/8		1 1/2	3/8	"
39	36	3/4	3 3/4		1 1/2	3/8	Field Rivets Bot Flg G1E, G3E, G4E
40	6	3/4	3 3/4		1 1/2	3/8	Field Rivets Bot Flg G2E
41	32	2 3/8	2 3/8		1 1/2	3/8	Field Rivets Top Flg All Girders
42	64	3/4	3 3/4		1 1/2	3/8	"
43	16	3/4	3 3/4		1 1/2	3/8	"

FIELD RIVETS AND BOLTS
DIV 3 - LATERAL PLATES TO GIRDERS
BANGOR-BREWER BRIDGE
BANGOR, MAINE

NAME: FEL
DATE: 11/10/00
DRAWINGS: TRENTON FABRICATION
IN CHARGE OF MARKS: AMBRIDGE Q4150
SHEET No.: EF302

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
1							Washer
2							
3	8	3/8	2 3/8		1 1/2	3/8	EDS to BRG to C.F.I.E.
4	64	3/8	2 3/8		1 1/2	3/8	" " C.F.I.E.
5							
6							
7							
8							
9							
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45							
46							

FIELD RIVETS AND BOLTS
DARDELET RIVET BOLTS - DIV. 3
BANGOR-BREWER BRIDGE
PENOBSCOT RIVER, ME

NAME: EBM
DATE: 11/10/00
DRAWINGS: TRENTON FABRICATION
IN CHARGE OF MARKS: AMBRIDGE Q4150
SHEET No.: EF301

0 1 2 3 4 5 INCHES

ERECTORS LIST
FIELD RIVETS AND BOLTS
ERICAN BRID.
DIVISION
UNITED STATES STEEL COMPANY

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD NUT WASH-ER TYPE OF BOLT			
1							PLATES TO GIRDER G2C
2	12	3/8	2 3/4		1 3/8	3/16	pk G2C
3	16	4/8	4 2		2 3/8	3/8	pg G2C
4	2	4/8	2 3/8		2 3/8	3/8	pn G2C
5	12	4/8	2 3/8		2 3/8	3/8	"
6	18	4/8	2 3/8		2 3/8	3/8	pp G2C
7	6	4/8	2 3/8		2 3/8	3/8	pba G2C
8							PLATES TO GIRDER G3C
9	24	2 3/4			1 3/8	3/16	pc G3C
10	12	2 3/4			1 3/8	3/16	pk G3C
11	16	3 3/8			1 3/8	3/16	ph G3C
12	2	4/8	2 3/8		2 3/8	3/8	pn G3C
13	12	4/8	2 3/8		2 3/8	3/8	"
14	16	4/8	2 3/8		2 3/8	3/8	pw G3C
15	12	4/8	2 3/8		2 3/8	3/8	pba G3C
16	9	2/8	2 3/8		2 3/8	3/8	pbf G3C
17	12	2/8	2 3/8		2 3/8	3/8	pca 101 G3C
18							
19	40	3/8			2 3/8	3/8	Field Rivets Flgs G1C, G4C
20	16	4/8			2 3/8	3/8	"
21	32	3/8			1 3/8	3/16	"
22	40	3/8			2 3/8	3/8	Field Rivets Flgs G2C, G4C
23	16	4/8			2 3/8	3/8	"
24	32	3/8			1 3/8	3/16	"
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							

ERECTORS LIST
FIELD RIVETS AND BOLTS
ERICAN BRID.
DIVISION
UNITED STATES STEEL COMPANY

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD NUT WASH-ER TYPE OF BOLT			
1							
2	10	3/8	4 4		2 3/8	3/8	Subk. conn. L to Gir.
3	80	3/8	3 4		1 3/8	3/16	" " " "
4	40	3/8	4 8		2 3/8	3/8	" Brkt. to Gir. Flg
5	12	3/8	2 3/8		1 3/8	3/16	" Struts " " "
6	36	3/8	3 3/8		1 3/8	3/16	" " " " "
7	12	3/8	4 8		2 3/8	3/8	" " " " "
8	180	3/8	2 8		1 3/8	3/16	" Brkts " Gir. Stiff
9							
10	144	3/8	2 3/8		3/8	3/16	D18 to Gir
11	192	3/8	2 3/8		1 3/8	3/16	D19 " "
12							
13							
14	190	3/8	2 3/8		1 3/8	3/16	Cr. Frs. to Gir. Flg
15	60	3/8	2 3/8		1 3/8	3/16	" " " Subk Brkt
16	130	3/8	2 4		1 3/8	3/16	" " " Gir. Stiff (Ext. Gir.)
17	180	3/8	2 8		3/8	3/16	" " " " (14+ Girs)
18							
19	16	3/8	2 4		3/4	3/8	Ladder to Gir
20							
21							
22							
23							
24							
25	20	3/4		2 3/8 Hex Hex Bev. Ordinary	1 3/8	5/16	Fascia to Subk Brkt.
26							
27							
28							
29							
30	32	3/8	3 3/8		2 3/8	3/8	G1C, G4C
31	32	3/8	3 3/8		2	1 3/8	G2C, G3C
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ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE
DIVISION
UNITED STATES STEEL COMPANY

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD NUT WASH-ER TYPE OF BOLT			
1	8	3/8	3 3/8		2 3/8	3/8	Field Rivets Top Flg G1D, G4D
2	16	4/8	4 4		2 3/8	3/8	"
3	28	2 3/8			1 3/8	3/16	Field Rivets Top Flg G2D, G3D
4	4	3 3/8			1 3/8	3/16	"
5	4	2 3/8			1 3/8	3/16	"
6	8	3 1/2			1 3/8	3/16	"
7	16	4			2 3/8	3/8	"
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