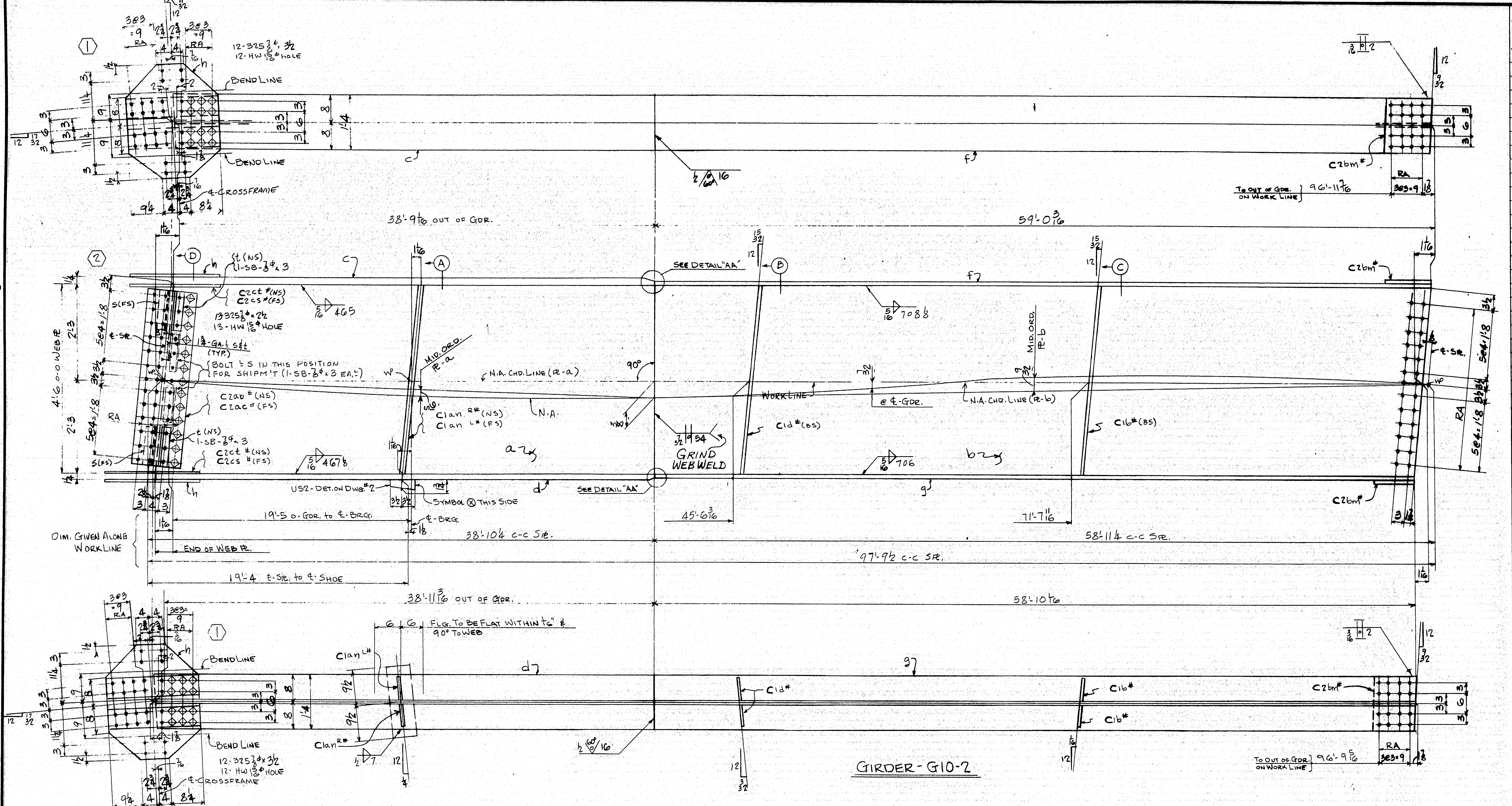
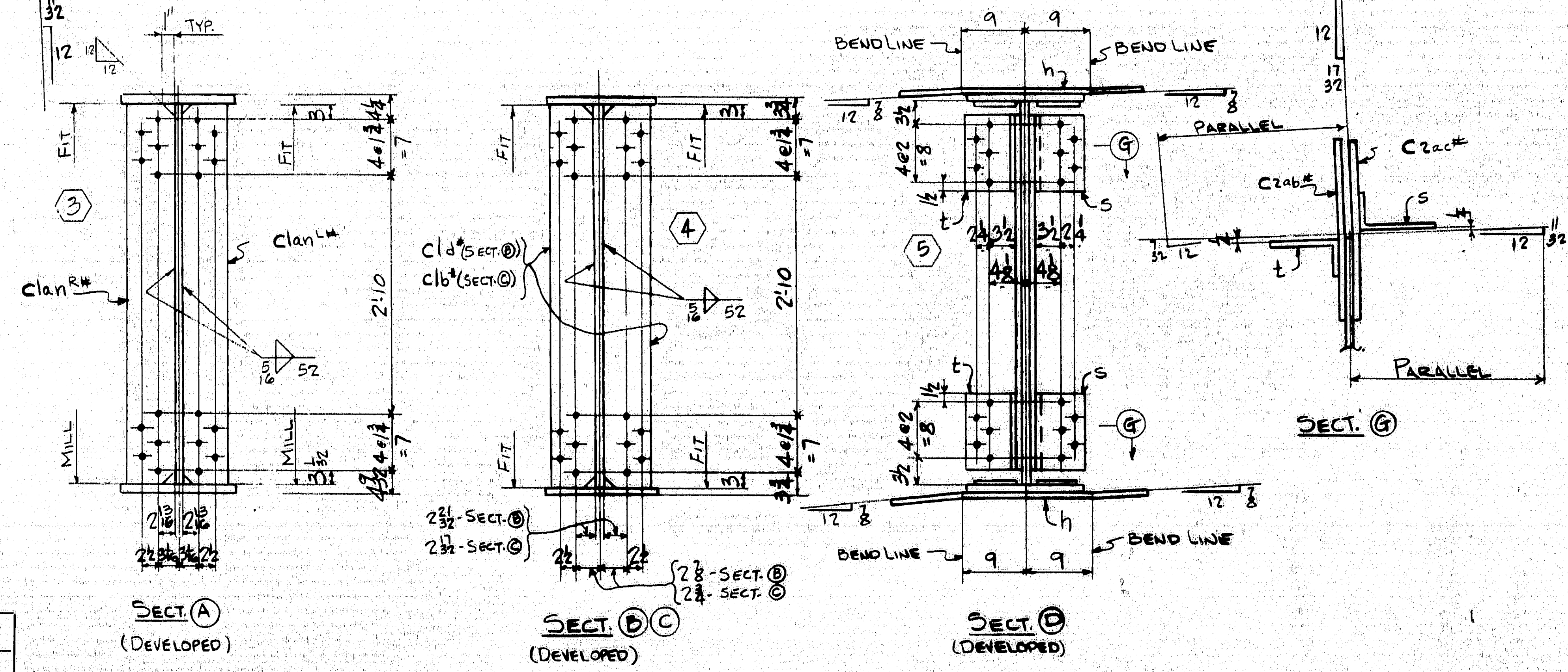
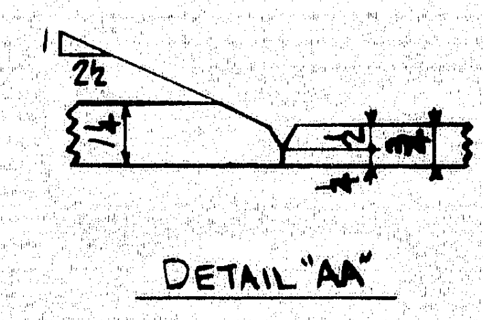





DETAIL "AA"

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	
1		ONE-GIRDER-G10-2												
2		a	1	PL	54		1/2	38	11 3/16	56×1/2	39	6 1/2	2	71
3		b	1	PL	54		7/16	59	0 3/16	56 1/2×7/16	59	7 1/4	2	71
4		c	1	PLU	16		1 1/4	38	9 5/16		39	1 3/4	3	71
5		d	1	PLU	16		1 1/4	38	11 7/16		39	1 3/4	3	71
6		f	1	PLU	16		3/4	59	0 3/8		59	4	4	71
7		g	1	PLU	16		3/4	58	10 1/4		59	4	4	71
8		h	2	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
9		s	2	L	7	3 1/4	1/2	0	11	BENT CF 7×4×1/2	40	0	36	39
10		t	2	L	7	3 1/4	1/2	0	11	BENT CF 7×4×1/2	40	0	36	39
11	c	1an R/L #	1/1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
12	c	1b#	2	BR	7		1/2	4	6	FZE	18	4	24	51
13	c	1d#	2	BR	7		1/2	4	6	FZE	18	4	24	51
14	c	2bm#	2	PL	16		1/2	1	0 7/8		20	2	24	46
15	c	2ab#	1	PW	13		3/8	4	2	BENT	21	1	24	48
16	c	2ac#	1	PW	13		3/8	4	2	BENT	21	1	24	48
17	c	2cs#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
18	c	2ct#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
19														
20														
21														
22														
23														
24														
25														
26		US2	1	UPPER SHOE						DET. ON DWG. #2				
27														
28			13	325	7/8φ			0	2 1/2	}				
29			24	325	7/8φ			0	3 1/2	}				
30			37	HW	1 3/4	15/16	3/16			}			M	
31			4	SB	3/4φ			0	3	}				
32		SD	1	WD			3/16	0	8					
33														
34		FWL	1	WD			5/16	391	0 1/2					
35		FWS	1	WD			5/16	52	0					
36		FW	1	WD			1/2	1	2					
37		SDS	1	WD			7/16	4	6					
38		VGOS	1	WD			3/4	2	8					
39														
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S.S. Nishimura OCT 8 1969

INST.-10W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G10-2	GIRDER (3 1/2 × 59 3/4 × 99'-1 1/2)	

PAY ITEM - 504.711

DOWELS IN R-US2 TO BE PROTECTED DURING SHIPMENT.

[illegible]

MATERIAL A36 STEEL
[illegible] BOLTS 7/8φ
OPEN HOLES 15/16φ
A325 FIELD BOLTS 7/8φ
SHOP CONTACT SURFACES NO PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)

GIRDER - G10-2

NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

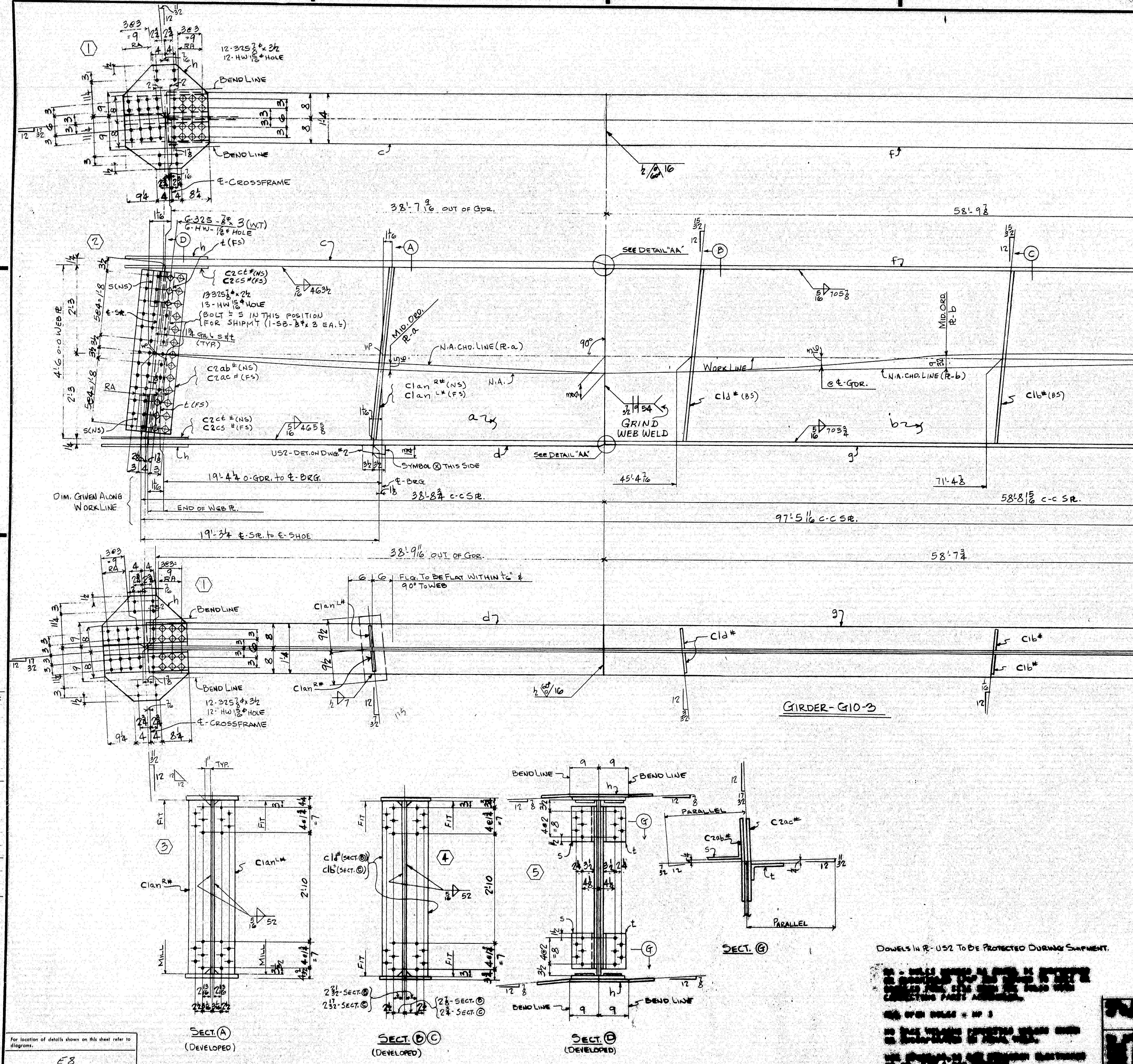
REVISION

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. NO I-95-1(22)16
CONT. NO. 3 - NEW HAMPSHIRE APR
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RD DATE 8-15-69 IN CHARGE B.K. [illegible]
CHECKED BY CB DATE 9-5-69 SHOP NO. 2
CONTRACT [illegible] DRAWING NO. 202

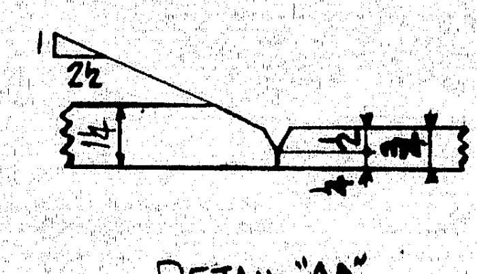
For location of details shown on this sheet refer to diagrams.
E3

10.7-2



DOWELS IN R-US2 TO BE PROTECTED DURING SHIPMENT.

[illegible]


DETAIL "AA"

APPROVED:
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S.S. Nishimura
OCT 8 1969

					SHOP BILL						MILL ORDER			
LINE	ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SIZE OR POUNDS	THICK	LENGTH FT.	LENGTH IN.	REMARKS		LENGTH FT.	LENGTH IN.	PAGE	LINE
1		ONE-GIRDER-G10-3												
2	a	1	PL	54		½	38	9 11/16		56×½	39	6½	2	71
3	b	1	PL	54		7/16	58	9 3/8		56½×7/16	59	7¼	2	71
4	c	1	PLU	16		1¼	38	7 13/16			39	1½	3	71
5	d	1	PLU	16		1¼	38	9 15/16			39	1½	3	71
6	f	1	PLU	16		¾	58	10 1/16			59	4	4	71
7	g	1	PLU	16		¾	58	7 15/16			59	4	4	71
8	h	2	PL	25½		½	2	7½	BENT		22	4	24	45
9	s	2	L	7	3¼	½	0	11	BENT		40	0	36	39
10	t	2	L	7	3¼	½	0	11	BENT		40	0	36	39
11	c lan R# L	1/1	BR	7½		¾	4	6 1/32	MIE FIE		18	4	24	49
12	c 1b#	2	BR	7		½	4	6	F2E		18	4	24	51
13	c 1d#	2	BR	7		½	4	6	F2E		18	4	24	51
14	c 2bm#	2	PL	16		½	1	0 7/8			20	2	24	46
15	c 2cs#	2	BR	6½		½	2	1½			19	0	24	50
16	c 2ct#	2	BR	6½		½	2	1½			19	0	24	50
17	c 2ab#	1	PLU	13		3/8	4	2	BENT		21	1	24	48
18	c 2ac#	1	PLU	13		3/8	4	2	BENT		21	1	24	48
19														
20														
21														
22														
23														
24														
25														
26	US2	1	UPPER SHOE						DET. ON DWG. #2					
27		6	325	7/8 φ			0	3						
28		13	325	7/8 φ			0	2½						
29		24	325	7/8 φ			0	3½						
30		43	HW	1¾	15/16	5/16							M	
31		2	SB	7/8 φ			0	3						
32	SD	1	WD			3/16	0	8						
33														
34	FWL	1	WD			5/16	389	9½						
35	FWS	1	WD			5/16	52	0						
36	FW	1	WD			½	1	2						
37	SDS	1	WD			7/16	4	6						
38	VGOS	1	WD			¾	2	8						
39														
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

D1

INST.-10W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G10-3	GIRDER (31½×58¾×98'-9¼)	

PAY ITEM - 504.711

GIRDER-G10-3

MATERIAL A36 STEEL
[illegible] BOLTS 7/8 φ
OPEN HOLES 15/16 φ
A325 FIELD BOLTS 7/8 φ
SHOP CONTACT SURFACES NO PAINT
MILL-AS NOTED
WELD-AS NOTED
PAINT ONE COAT AASHO-M72-TYPE I RED LEAD (UN)

	REVISION		
NO.	DATE	INIT.	
D1	10-21-69	1/CB	

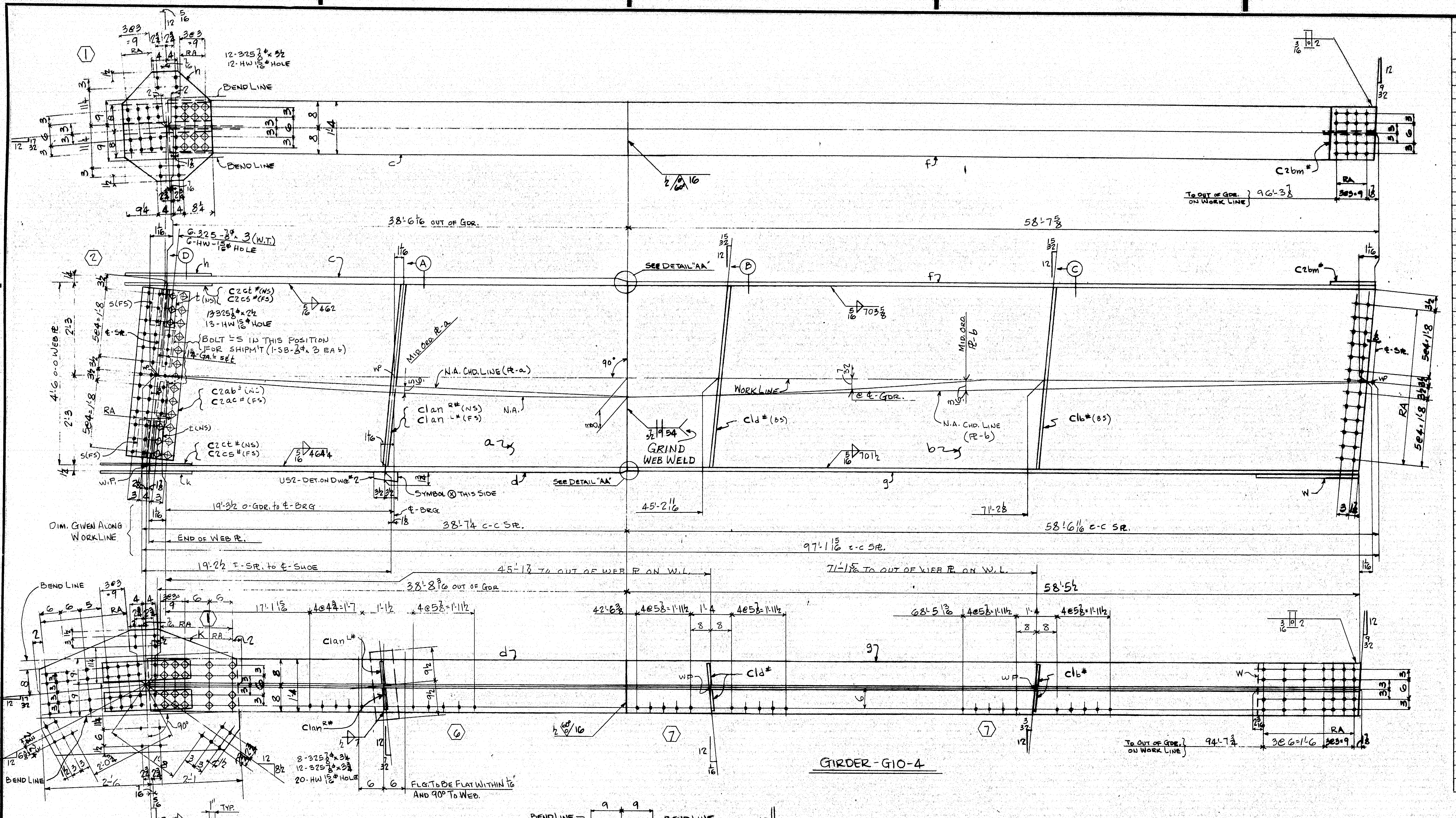
SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

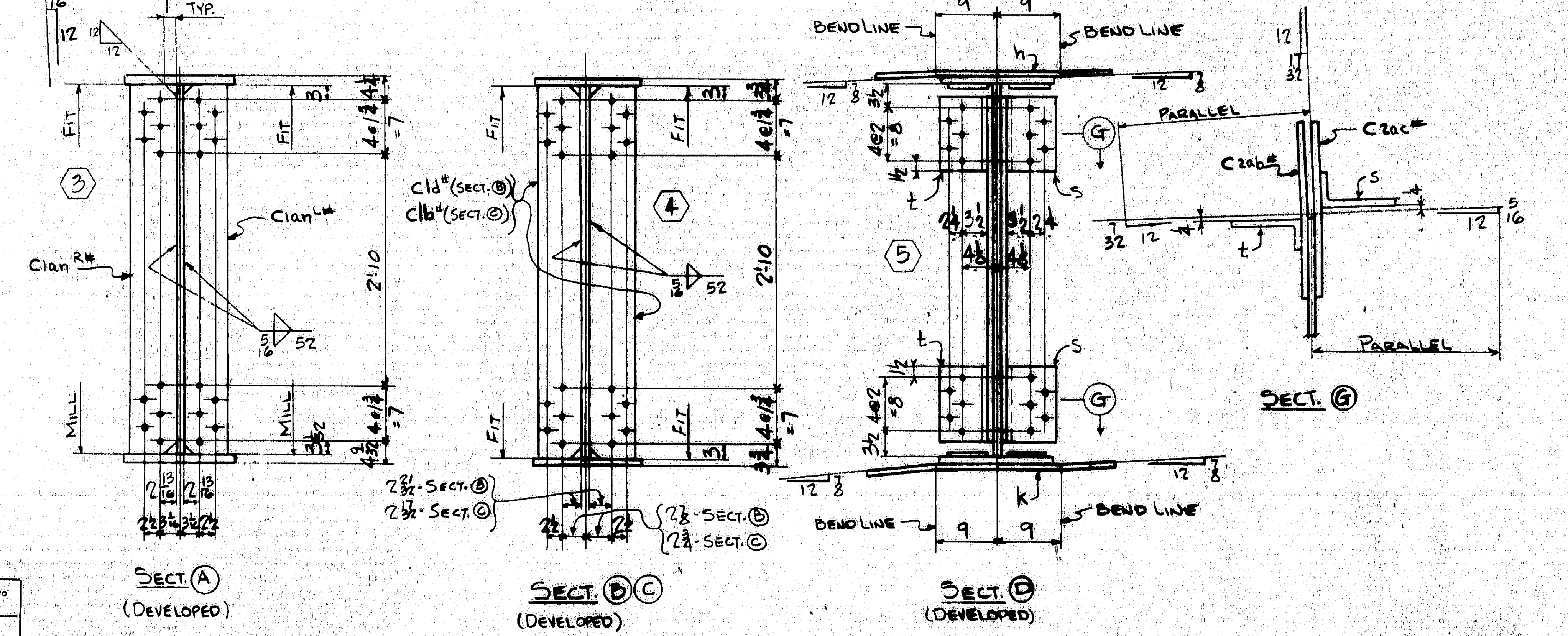
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. NO I-95-1(27)16
CONT. NO. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RD DATE 8-15-69 IN CHARGE [illegible]
CHECKED BY CB DATE 9-5-69 SHOP NO. 2
CONTRACT CJ-[illegible] DRAWING NO. 203

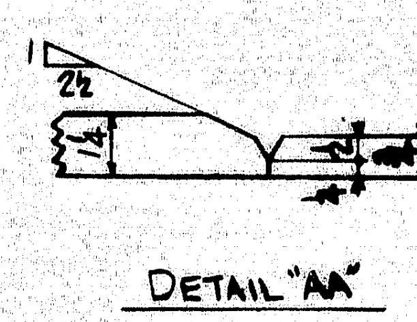
For location of details shown on this sheet refer to diagrams.

E8

107-3






DETAIL "AA"

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S.S. Nishimura NOV 25 1969

DOWELS IN R - US2 TO BE PROTECTED DURING SHIPMENT.

[illegible]

INST.-10W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G10-4	GIRDER (34 1/2 × 58 3/4 × 99'-11)	

PAY ITEM - 504.711

SHOP BILL

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	PAGE	[illegible]
1		ONE-GIRDER-G10-4												
2		a	1	PL	54		1/2	38	8 3/16	56×1/2	39	6 1/2	2	74
3		b	1	PL	54		7/16	58	7 5/8	56 1/2×7/16	59	7 1/4	2	71
4		c	1	PLU	16		1 1/4	38	6 1/4		39	1 1/2	3	71
5		d	1	PLU	16		1 1/4	38	8 3/8		39	1 1/4	3	71
6		f	1	PLU	16		3/4	58	7 13/16		59	4	4	71
7		g	1	PLU	16		3/4	58	5 1/16		59	4	4	71
8		h	1	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
9		k	1	PL	35 1/2		5/8	4	7	BENT			J	
10		s	2	L	7	3 1/4	1/2	0	11	BENT CF7X4X1/2	40	0	36	39
11		t	2	L	7	3 1/4	1/2	0	11	BENT CF7X4X1/2	40	0	36	39
12	c	1anR#/L#	1/1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
13	c	1b#	2	BR	7		1/2	4	6	F2E	18	4	24	51
14	c	1d#	2	BR	7		1/2	4	6	F2E	18	4	24	51
15	c	2bm#	1	PL	16		1/2	1	0 3/8		20	2	24	46
16	c	2cs#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
17	c	2ct#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
18	c	2ab#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
19	c	2ac#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
20		w	1	PL	16		1/2	2	7 7/16				J	
21														
22														
23														
24			6	325	7/8 ϕ			0	3					
25			2	SB	7/8 ϕ			0	3				M	
26		US2	1	UPPER SHOE						DET. ON DWG. #2				
27			12	325	7/8 ϕ			0	3 3/4					
28			13	325	7/8 ϕ			0	2 1/2					
29			12	325	7/8 ϕ			0	3 1/2				M	
30			51	HW	1 3/4	15/16	3/16							
31			8	325	7/8 ϕ			0	3 1/4					
32		SD	1	WD			3/16	0	8					
33														
34		FWL	1	WD			5/16	388	6 3/4					
35		FWS	1	WD			5/16	52	0					
36		FW	1	WD			1/2	1	2					
37		SDS	1	WD			7/16	4	6					
38		V60S	1	WD			3/4	2	8					
39														
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

MATERIAL A36 STEEL
[illegible] BOLTS 7/8 ϕ
OPEN HOLES 15/16 ϕ
A325 FIELD BOLTS 7/8 ϕ
SHOP CONTACT SURFACES No PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE I RED LEAD (UN)

GIRDER - G10-4

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. No I-95-1(22)16
CONT. No. 3 - NEW HAMPSHIRE [illegible]
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RD DATE 8-15-69 IN CHARGE D.K. [illegible]
CHECKED BY CB DATE 9-5-69 SHOP NO.
CONTRACT CT-[illegible] DRAWING NO. 204

NO.	DATE	INT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

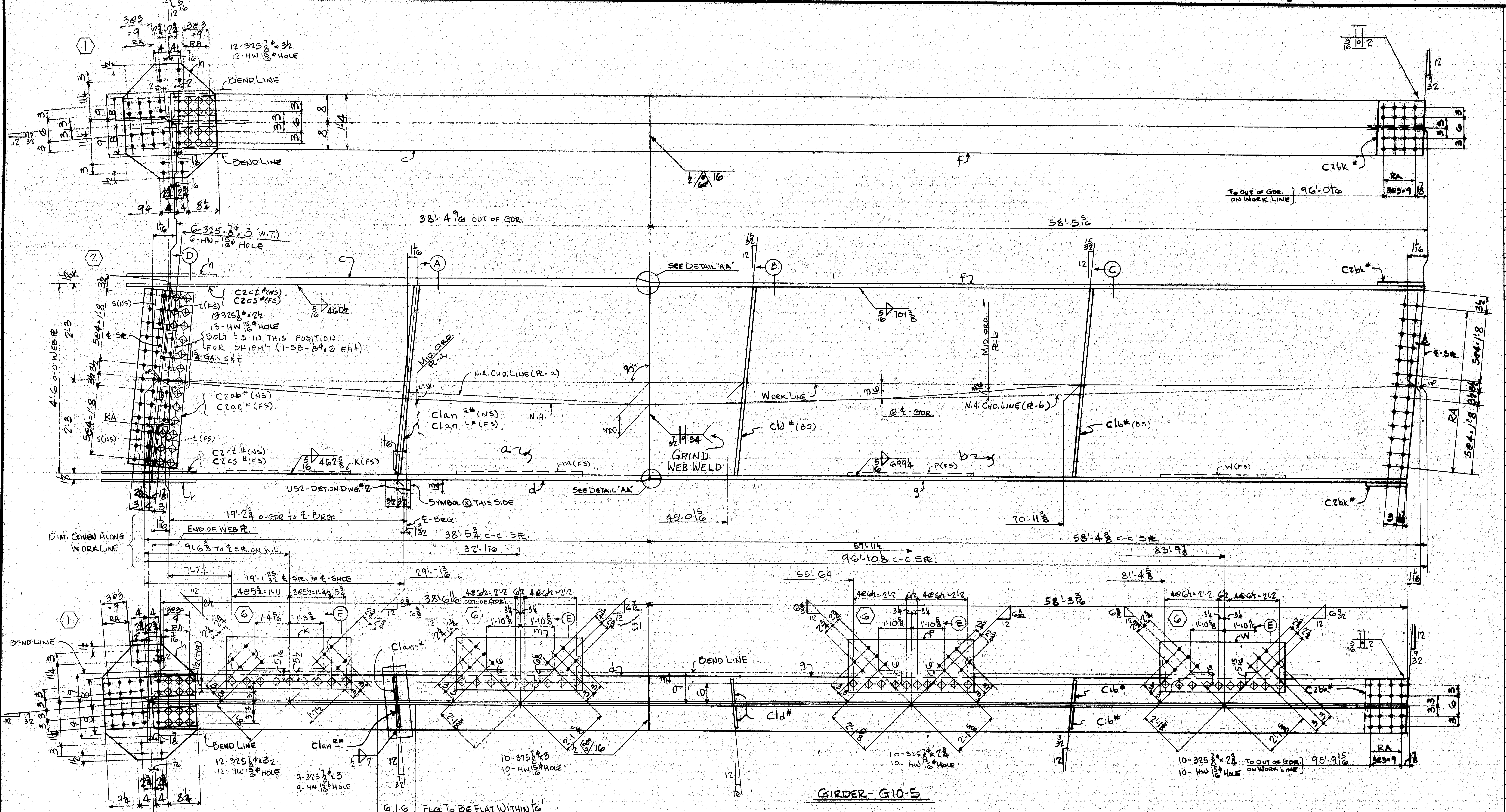
REVISION

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

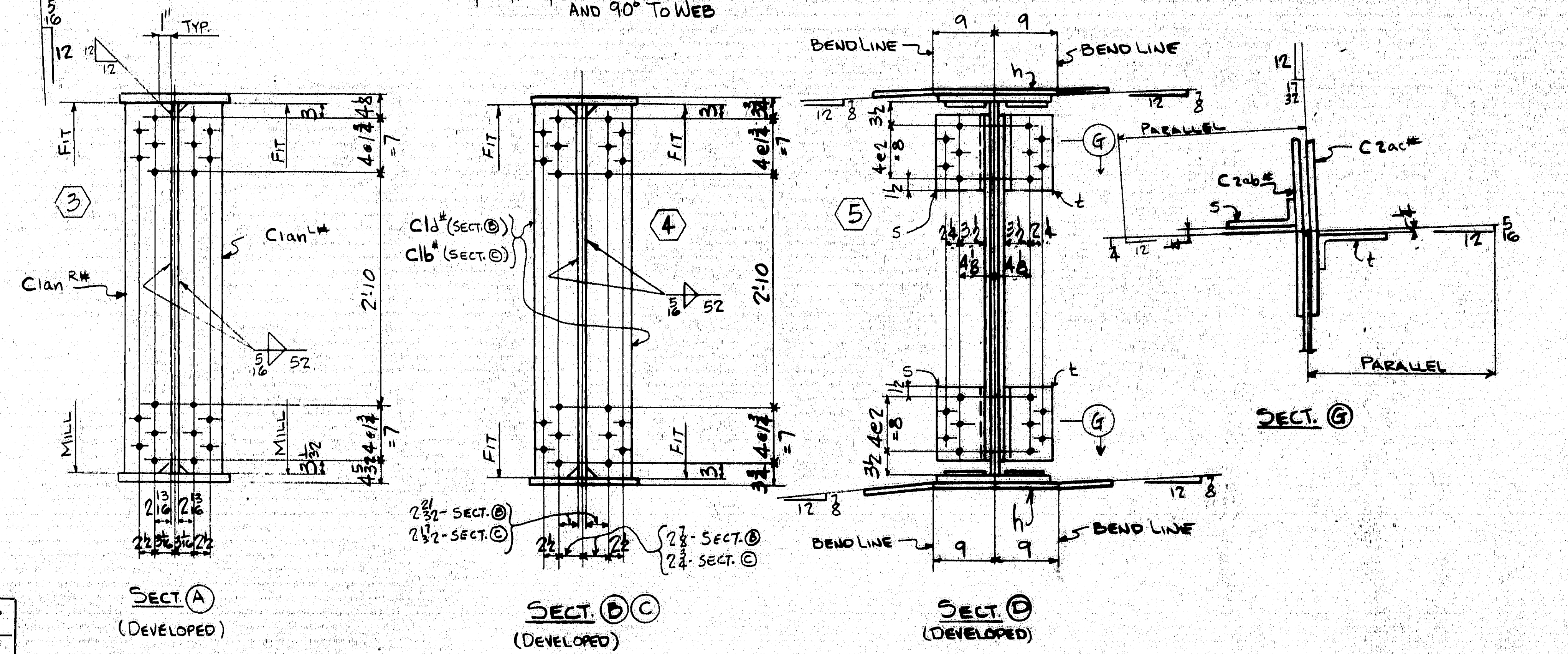
For location of details shown on this sheet refer to diagrams.

E8

107-4



GIRDER- G10-5

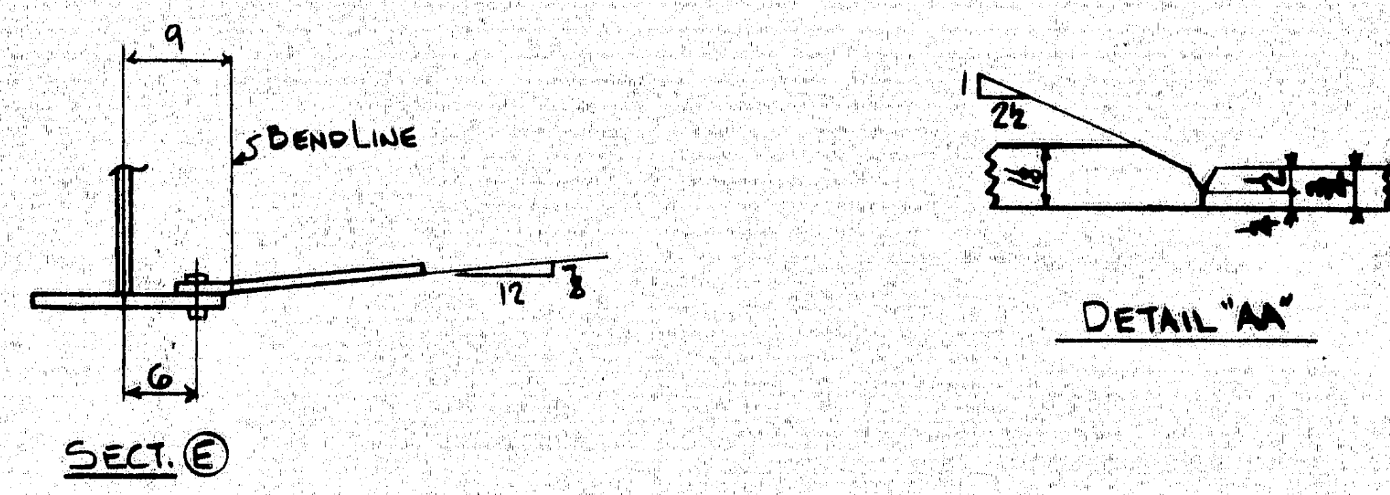


SECT. Ⓐ (DEVELOPED)

SECT. Ⓑ Ⓒ (DEVELOPED)

SECT. Ⓖ (DEVELOPED)

SECT. Ⓖ



SECT. Ⓔ

DETAIL "AA"

DOWELS IN R - US2 TO BE PROTECTED DURING SHIPMENT.

[illegible]

For location of details shown on this sheet refer to diagrams.

E8

LINE	ASSEMBLY MARK		NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	
1		ONE-GIRDER-G10-5												
2		a	1	PL	54		½	38	6 11/16	56×½	39	6½	2	74
3		b	1	PL	54		7/16	58	5 5/16	56½×7/16	58	10	2	72
4		c	1	PLU	16		1⅛	38	4¾		38	7¾	3	80
5		d	1	PLU	16		1⅛	38	6⅞		38	7¾	3	80
6		f	1	PLU	16		¾	58	5½		58	6½	4	72
7		g	1	PLU	16		¾	58	3⅜		58	6½	4	72
8		h	2	PL	25½		½	2	7½	BENT	22	4	24	45
9		k	1	PL	14½		⅝	4	0¼	BENT	26	0	28	19
10		m	1	PL	14½		⅝	5	1½	BENT	26	0	28	19
11		p	1	PL	14½		⅝	5	1½	BENT	26	0	28	19
12		s	2	L	7	3¼	½	0	11	BENT CF 7×4×½	40	0	36	39
13		t	2	L	7	3¼	½	0	11	BENT CF 7×4×½	40	0	36	39
14		w	1	PL	14½		⅝	5	1½	BENT	26	0	28	19
15	c	1an R#/L	1/1	BR	7½		¾	4	6 1/32	MIE FIE	18	4	24	49
16	c	1b#	2	BR	7		½	4	6	F2E	18	4	24	51
17	c	1d#	2	BR	7		½	4	6	F2E	18	4	24	51
18	c	2bk#	2	PL	16		⅜	1	0⅜				J	
19	c	2cs#	2	BR	6½		½	2	1½		19	0	24	50
20	c	2ct#	2	BR	6½		½	2	1½		19	0	24	50
21	c	2ab#	1	PLW	13		⅜	4	2	BENT	21	1	24	48
22	c	2ac#	1	PLW	13		⅜	4	2	BENT	21	1	24	48
23														
24														
25			2	SB	⅞φ			0	3				M	
26		US2	1	UPPER SHOE						DET. ON DWG #2				
27			25	325	⅞φ			0	3					
28			13	325	⅞φ			0	2½					
29			24	325	⅞φ			0	3½				M	
30			82	HW	1¾	15/16	5/16							
31			20	325	⅞φ			0	2¾					
32		SD	1	WD			3/16	0	8					
33														
34		FWL	1	WD			5/16	388	1¼					
35		FWS	1	WD			5/16	52	0					
36		FW	1	WD			½	1	2					
37		SDS	1	WD			7/16	4	6					
38		V60S	1	WD			¾	2	8					
39														
40														
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53														
54														
55														

HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S.S. Nishimura OCT 8

INST.-10W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G10-5	GIRDER (34⅝ × 58¾ × 98'-1¼)	

PAY ITEM - 504.711

MATERIAL A36 STEEL
SHOP BOLTS ⅞φ
OPEN HOLES 15/16φ
A325 FIELD BOLTS ⅞φ
SHOP CONTACT SURFACES NO PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)

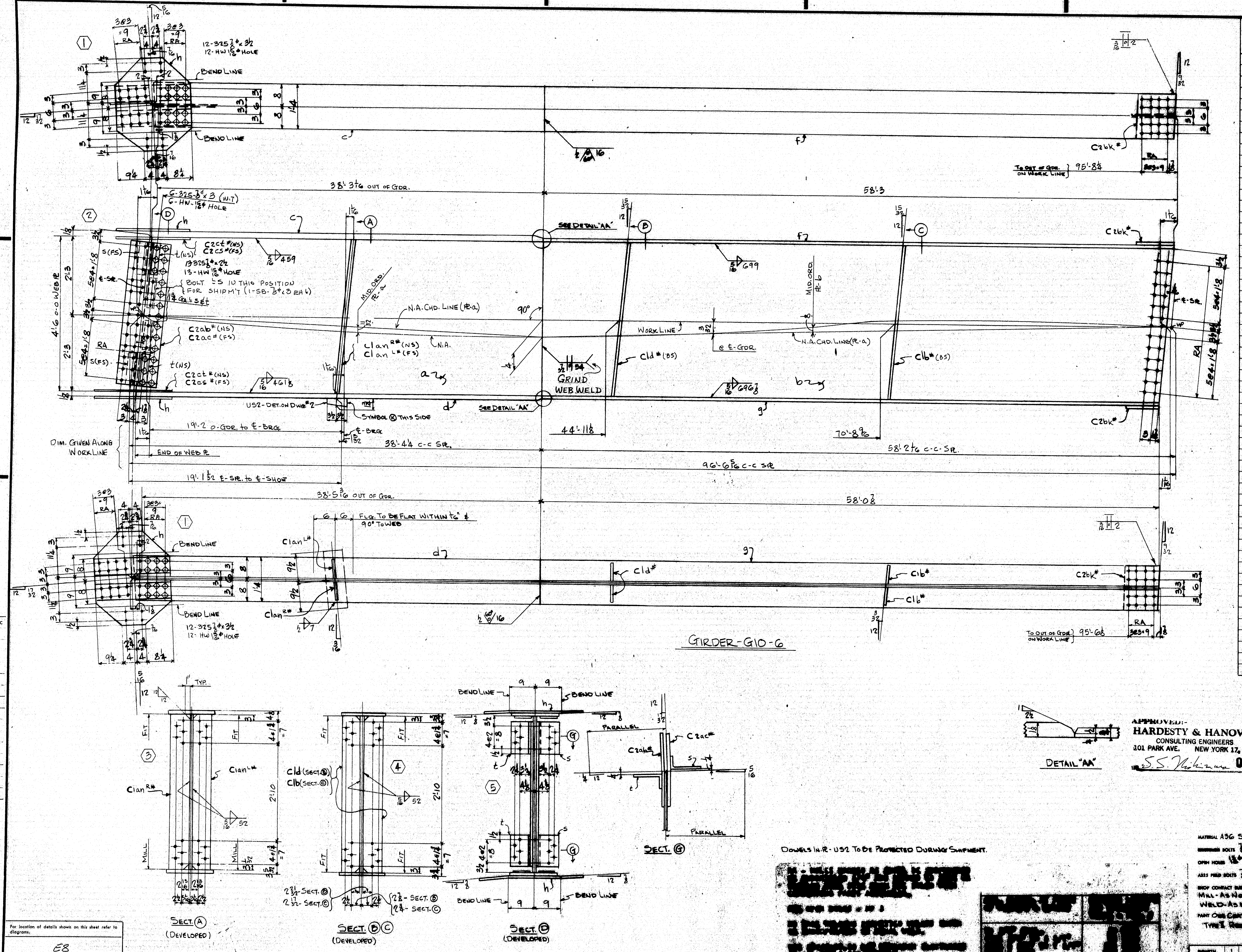
NO.	DATE	INIT.
1	10-30-29	C

SUBMITTAL 1 2 3 4 5 6 7 8 9 0
DATE

GIRDER - G10-5

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. NO I-95-1(22)16
CONT. NO. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RD DATE 8-18-69 IN CHARGE D.K. [illegible]
CHECKED BY C.B. DATE 9-5-69 SHOP NO. 2
CONTRACT CT-6944-020 DRAWING NO. 205

107-5



SHOP BILL

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OF FLANGE	SECTION THICK.	LENGTH FT.	LENGTH IN.	REMARKS	FT.	[illegible]	[illegible]
1		ONE-GIRDER-G10-6											
2		a	1	PL	54		½	38	5 3⁄16	56x½	39	6½	[illegible]
3		b	1	PL	54		7⁄16	58	3	56½x7⁄16	58	10	[illegible]
4		c	1	PLU	16		1⅛	38	3¼		38	7	[illegible]
5		d	1	PLU	16		1⅛	38	5⅜		38	7	[illegible]
6		f	1	PLU	16		[illegible]	58	3 7⁄16		58	6½	[illegible]
7		g	1	PLU	16		[illegible]	58	1 1⁄16		58	6½	[illegible]
8		h	2	PL	25½		[illegible]	2	7½	BENT	22	4	24[illegible]
9		s	2	L	7	3¼	½	0	11	BENT CF 7x4x½	40	0	3639
10		t	2	L	7	3¼	½	0	11	BENT CF 7x4x½	40	0	3639
11	c	1an R* L*	1/1	BR	7½		¾	4	6 1⁄32	MIE FIE	18	4	2449
12	c	1b*	2	BR	7		½	4	6	F2E	18	4	2451
13	c	1d*	2	BR	7		½	4	6	F2E	18	4	2451
14	c	2bk*	2	PL	16		⅜	1	0⅞				J
15	c	2ct*	2	BR	6½		½	2	1½		19	0	24[illegible]
16	c	2cs*	2	BR	6½		½	2	1½		19	0	24[illegible]
17	c	2ab*	1	PLU	13		⅜	4	2	BENT	21	1	24[illegible]
18	c	2ac*	1	PLU	13		⅜	4	2	BENT	21	1	24[illegible]
19													
20													
21													
22													
23													
24													
25													
26		US2	1	UPPER SHOE						DET. ON DWG #2			
27			6	325	⅞ϕ			0	3				
28			13	325	⅞ϕ			0	2½				
29			24	325	⅞ϕ			0	3½				
30			43	HW	1¾	1 5⁄16	5⁄16						M
31			2	SB	⅞ϕ			0	3				
32		SD	1	WD			3⁄16	0	8				
33													
34		FWL	1	WD			5⁄16	386	0				
35		FWS	1	WD			5⁄16	52	0				
36		FW	1	WD			½	1	2				
37		SDS	1	WD			7⁄16	4	6				
38		VGOS	1	WD			¾	2	8				
39													
40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S. S. Nishimura OCT 8 1969

INST.-10 W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G10-6	GIRDER (3½ x 58¾ x 97-9½)	

PAY ITEM - 504.711

DOWELS IN R-US2 TO BE PROTECTED DURING SHIPMENT.

[illegible]

MATERIAL A36 STEEL
[illegible] BOLTS ⅞ϕ
OPEN HOLES 1⅜ϕ
A325 FIELD BOLTS ⅞ϕ
SHOP CONTACT SURFACES NO PAINT
MILL-AS NOTED
WELD-AS NOTED
PAINT ONE COAT AASHO-M72-TYPE I RED LEAD (UN)

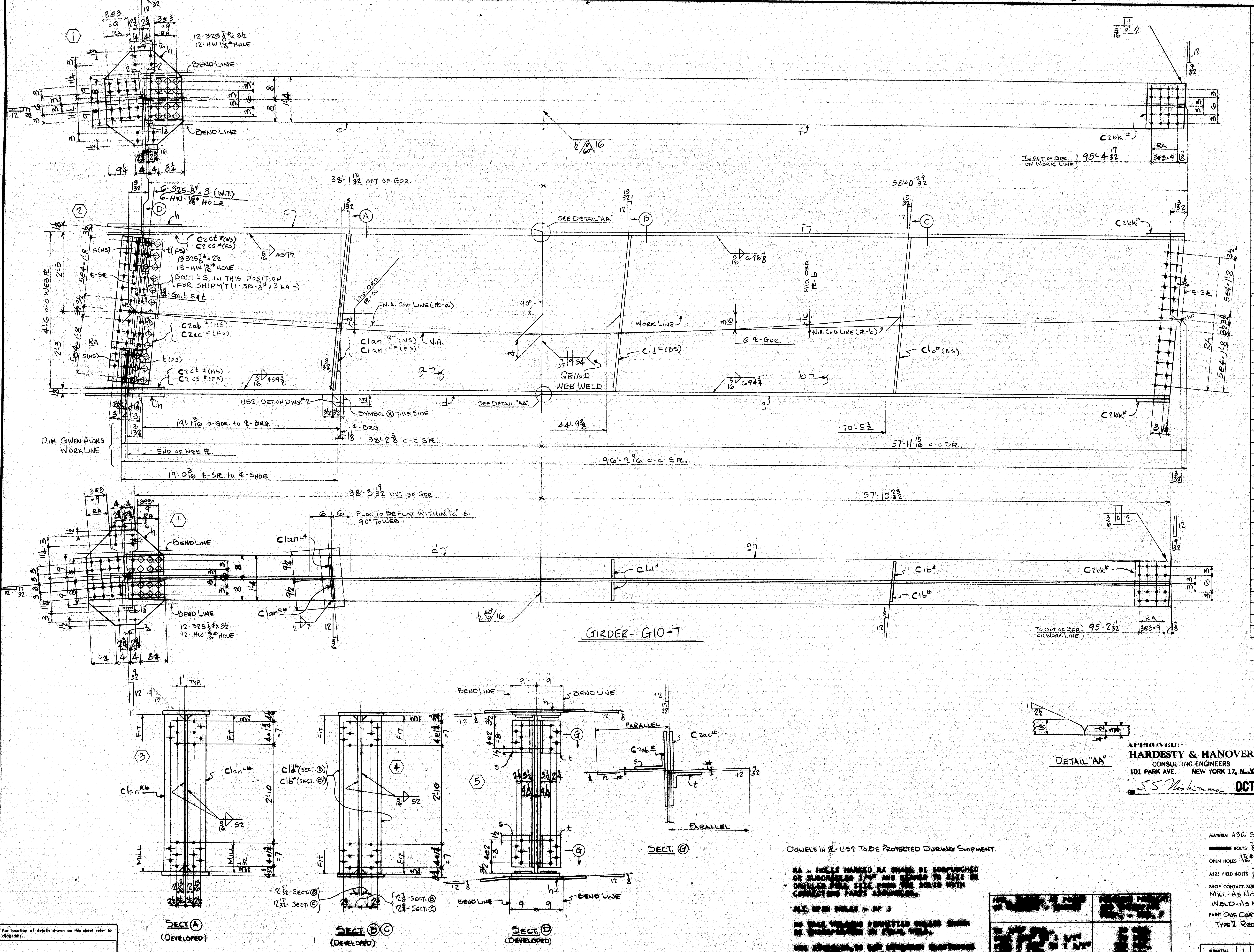
SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

GIRDER - G10-6

MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. No I-95-1(??)
CONT. No. 3 - NEW HAMPSHIRE [illegible]
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
POTTSTOWN
MADE BY RD DATE 8-18-69 IN CHARGE [illegible]
CHECKED BY CB DATE 9-5-69 SHOP NO.
[illegible] DRAWING NO. 206

107-6

For location of details shown on this sheet refer to diagrams.
E8



LINE		ASSEMBLY MARK	NO	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1		ONE-GIRDER-G10-7												
2		a	1	PL	54		1/2	38	3 19/32	56x1/2	39	6 1/2	2	74
3		b	1	PL	54		7/16	58	0 29/32	56 1/2 x 7/16	58	10	2	72
4		c	1	PLU	16		1 1/8	38	1 1/16		38	7 3/4	3	80
5		d	1	PLU	16		1 1/8	38	3 3/4		38	7 3/4	3	80
6		f	1	PLU	16		3/4	58	1 1/16		58	6 1/2	4	72
7		g	1	PLU	16		3/4	57	10 3/8		58	6 1/2	4	72
8		h	2	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
9		s	2	L	7	3 1/4	1/2	0	11	BENT CF7x4x1/2	40	0	36	39
10		t	2	L	7	3 1/4	1/2	0	11	BENT CF7x4x1/2	40	0	36	39
11	c	lan R/L #	1/1	BR	7 1/2		3/4	4	6 1/32	MIE, FIE	18	4	24	49
12	c	1b#	2	BR	7		1/2	4	6	F2E	18	4	24	51
13	c	1d#	2	BR	7		1/2	4	6	F2E	18	4	24	51
14	c	2bk#	2	PL	16		3/8	1	0 7/8				J	
15	c	2cs#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
16	c	2ct#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
17	c	2ab#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
18	c	2ac#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
19														
20														
21														
22														
23														
24														
25														
26		US2	1	UPPER SHOE						DET. ON DWG. #2				
27			6	325	7/8φ			0	3					
28			13	325	7/8φ			0	2 1/2					
29			24	325	7/8φ			0	3 1/2				M	
30			43	HW	1 3/4	15/16	3/16							
31			2	SB	7/8φ			0	3					
32		SD	1	WD			3/16	0	8					
33														
34		FWL	1	WD			5/16	384	9 1/2					
35		FWS	1	WD			5/16	52	0					
36		FW	1	WD			1/2	1	2					
37		SDS	1	WD			7/16	4	6					
38		V60S	1	WD			3/4	2	8					
39														
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

INST.-10W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G10-7	GIRDER (31 1/2 x 58 3/4 x 97'-5 3/4)	

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S. S. Nishimura OCT 8 1969

PAY ITEM - 504.711

DOWELS IN R-US2 TO BE PROTECTED DURING SHIPMENT.

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED [illegible] AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - NP 3

[illegible]

[illegible]

MATERIAL A36 STEEL
BOLTS 7/8φ
OPEN HOLES 15/16φ
A325 FIELD BOLTS 7/8φ
SHOP CONTACT SURFACES NO PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

REVISION

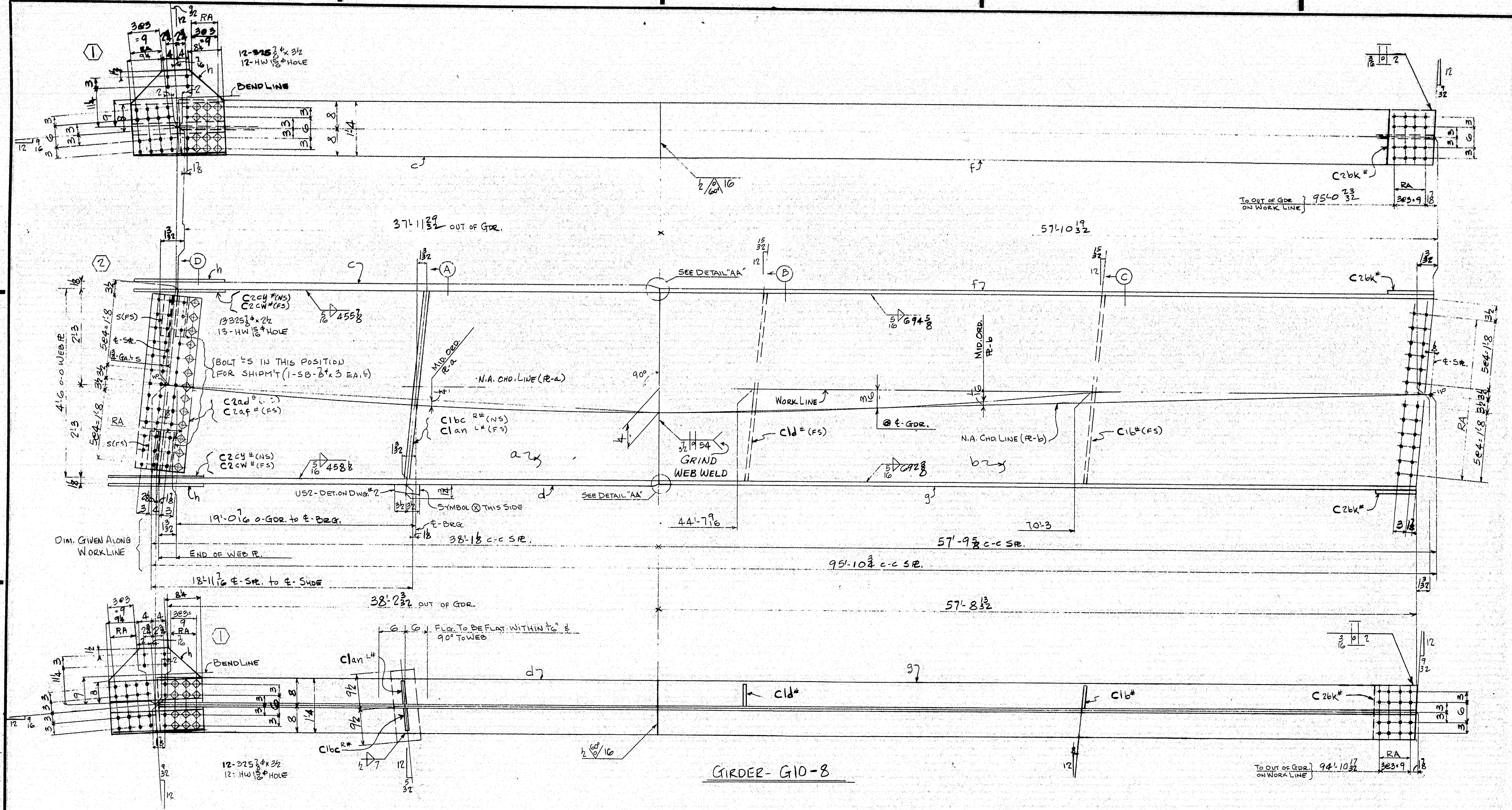
GIRDER - G10-7

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. NO I-95-1(22)16
CONT. NO. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL

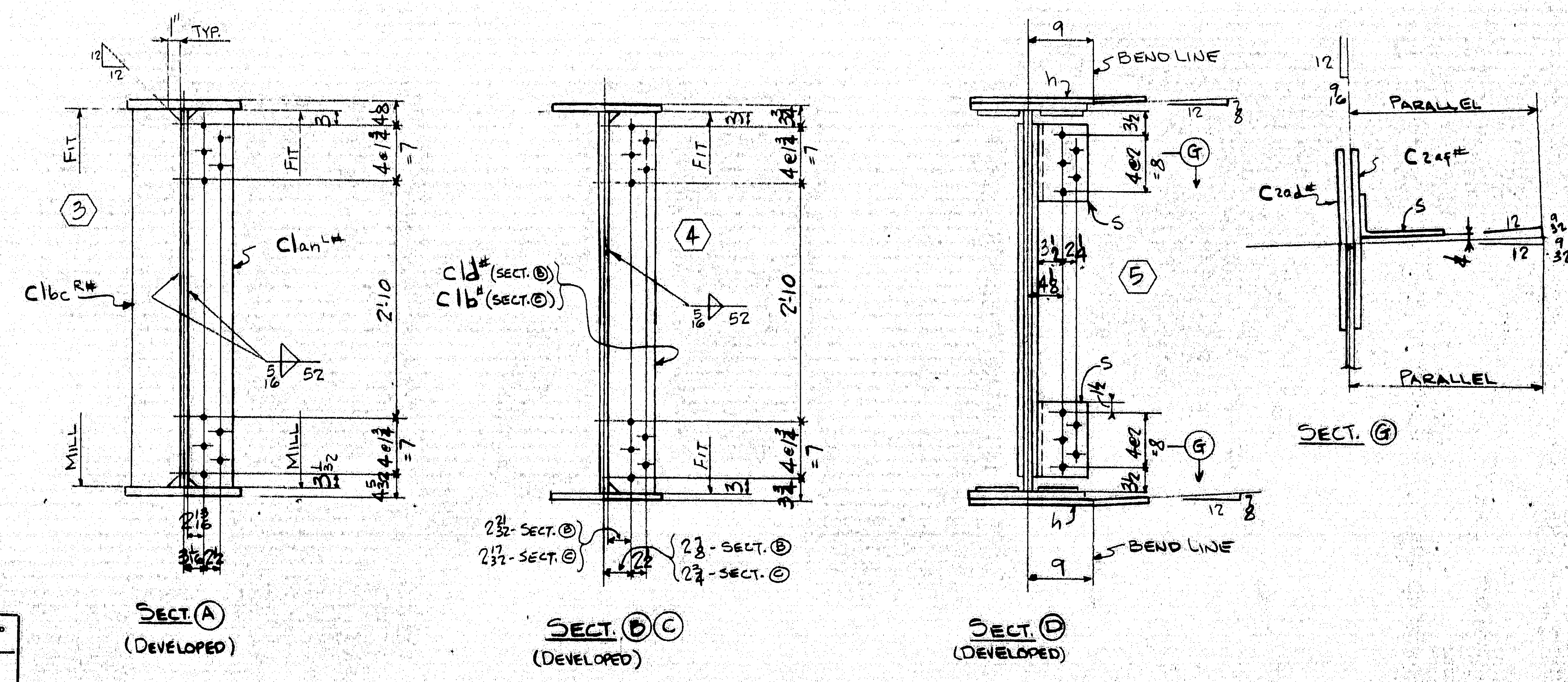
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RD DATE 8-19-69 IN CHARGE B. K. BERTOLET
CHECKED BY CB DATE 9-5-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 207

107-8

35453 (Rev. C 4-65)



GIRDER- G10-8

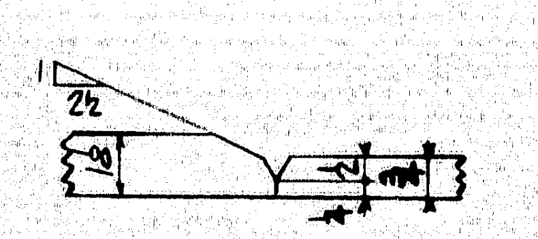


Sect. Ⓐ (Developed)

Sect. Ⓑ Ⓒ (Developed)

Sect. Ⓓ (Developed)

Sect. Ⓖ



DETAIL "AA"

LINE		ASSEMBLY MARK	NO	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	THICK	LENGTH FT	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1		ONE-GIRDER-G10-8												
2		a	1	PL	54		1/2	38	2 3/32	56×1/2	39	6 1/2	2	74
3		b	1	PL	54		7/16	57	10 19/32	56 1/2×7/16	58	10	2	72
4		c	1	PLU	16		1 1/8	38	0 1/16		38	7 3/4	3	80
5		d	1	PLU	16		1 1/8	38	2 1/4		38	7 3/4	3	80
6		f	1	PLU	16		3/4	57	10 3/4		58	6 1/2	4	72
7		g	1	PLU	16		3/4	57	8 9/16		58	6 1/2	4	72
8		h	2	PL	25 1/2		1/2	1	11 3/4	BENT	22	4	24	45
9		s	2	L	7	3 1/4	1/2	0	11	BENT CF7×4×1/2	40	0	36	39
10	c	2bk#	2	PL	16		3/8	1	0 7/8				J	
11	c	2cw#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
12	c	2cy#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
13	c	2ad#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
14	c	2af#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
15	c	1bc R#	1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
16	c	1an L#	1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
17	c	1b#	1	BR	7		1/2	4	6	F2E	18	4	24	51
18	c	1d#	1	BR	7		1/2	4	6	F2E	18	4	24	51
19														
20														
21														
22														
23														
24														
25														
26		US2	1	UPPER SHOE						DET. ON DWG. #2				
27														
28			13	325	7/8 φ			0	2 1/2					
29			24	325	7/8 φ			0	3 1/2					
30			37	HW	1 3/4	15/16	3/16							
31			2	SB	7/8 φ			0	3					
32		SD	1	WD			3/16	0	8					
33														
34		FWL	1	WD			5/16	383	6					
35		FWS	1	WD			5/16	34	8					
36		FW	1	WD			1/2	1	2					
37		SDS	1	WD			7/16	4	6					
38		V60S	1	WD			3/4	2	8					
39														
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

INST.-10W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G10-8	GIRDER (25 1/4 × 58 3/4 × 97-2)	

APPROVED
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S.S. Nishizawa OCT 8 1969

PAY ITEM - 504.711

DOWELS IN Ⓡ-US2 TO BE PROTECTED DURING SHIPMENT.

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - NP 3

NO TACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE E7016, 18, 28 [illegible] ELECTRODES OR [illegible] SAW-2 FOR WELDING.

MIN. THICK. AT POINT OF WELDING - INCHES	MINIMUM PREHEAT AND INTERPASS TEMP. - DEG. F
[illegible]	[illegible]

MATERIAL A36 STEEL
BOLTS 7/8 φ
OPEN HOLES 15/16 φ
A325 FIELD BOLTS 7/8 φ
SHOP CONTACT SURFACES No Paint
Mill - As Noted
Weld - As Noted
PAINT One Coat AASHO-M72-Type II Red Lead (UN)

REVISION NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

GIRDER - G10-8

CUSTOMER
MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
[redacted] PROJECT. No I-95-1(22)16
CONT. No. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RD DATE 8-19-69 IN CHARGE B.K. BERTOLET
CHECKED BY CB DATE 9-5-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 208

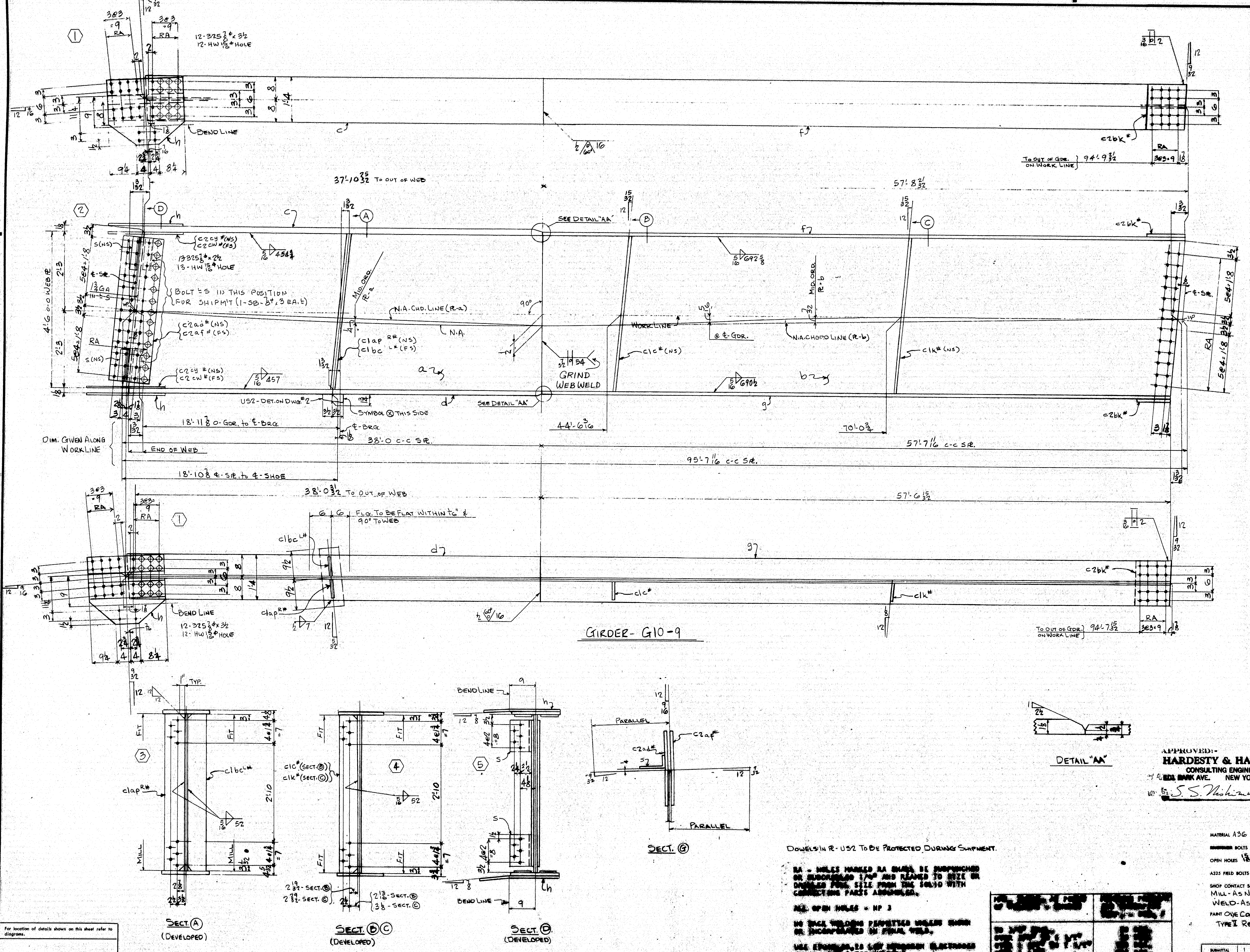
For location of details shown on this sheet refer to diagrams.

432-JUKE

1 107-9

35453 (Rev.C 4-65) OCT 7 1969

0 1 2 3 4 5 INCHES



LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1		ONE-GIRDER-G10-9												
2		a	1	PL	54		½	38	0 31/32	56x½	38	5¼	2	75
3		b	1	PL	54		7/16	57	8 21/32	56½x7/16	58	10	2	72
4		c	1	PLU	16		1⅛	37	10 15/16		38	7¾	3	80
5		d	1	PLU	16		1⅛	38	1⅛		38	7¾	3	80
6		f	1	PLU	16		¾	57	8 13/16		57	9¾	4	73
7		g	1	PLU	16		¾	57	6⅝		57	9¾	4	73
8		h	2	PL	25½		½	1	11¼	BENT	22	4	24	45
9		s	2	L	7	3½	½	0	11	BENT CF 7x4x½	40	0	36	39
10	c	2bk*	2	PL	16		⅜	1	0⅞				J	
11	c	2cw*	2	BR	6½		½	2	1½		19	0	24	50
12	c	2cy*	2	BR	6½		½	2	1½		19	0	24	50
13	c	2ad*	1	PLU	13		⅜	4	2	BENT	21	1	24	48
14	c	2af*	1	PLU	13		⅜	4	2	BENT	21	1	24	48
15	c	1ap R*	1	BR	7½		¾	4	6 1/32	MIE FIE	18	4	24	49
16	c	1bc L*	1	BR	7½		¾	4	6 1/32	MIE FIE	18	4	24	49
17	c	1c*	1	BR	7		½	4	6	F2E	18	4	24	51
18	c	1k*	1	BR	7		½	4	6	F2E	18	4	24	51
19														
20														
21														
22														
23														
24														
25														
26		US2	1	UPPER SHOE						DET. ON DWG. #2				
27														
28			13	325	7/8 ϕ			0	2½	}				
29			24	325	7/8 ϕ			0	3½	}			M	
30			37	HW	1¾	15/16	3/16			}				
31			2	SB	7/8 ϕ			0	3	}				
32		SD	1	WD			3/16	0	8					
33														
34		FWL	1	WD			5/16	382	5¾					
35		FWS	1	WD			5/16	34	8					
36		FW	1	WD			½	1	2					
37		SDS	1	WD			7/16	4	6					
38		VGDS	1	WD			½	2	8					

INST.-10E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G10-9	GIRDER (25¼ x 58¾ x 96'-10¾)	

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S. S. Nishimura OCT 8 1969

PAY ITEM - 504.711

DOWELS IN R-US2 TO BE PROTECTED DURING SHIPMENT.

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/16" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - NP 3

NO TACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE E70XX LOW HYDROGEN ELECTRODES OR [illegible] FOR WELDING.

[illegible]	[illegible]
[illegible]	[illegible]

MATERIAL A36 STEEL
BOLTS 7/8 ϕ
OPEN HOLES 15/16 ϕ
A325 FIELD BOLTS 7/8 ϕ
SHOP CONTACT SURFACES NO PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

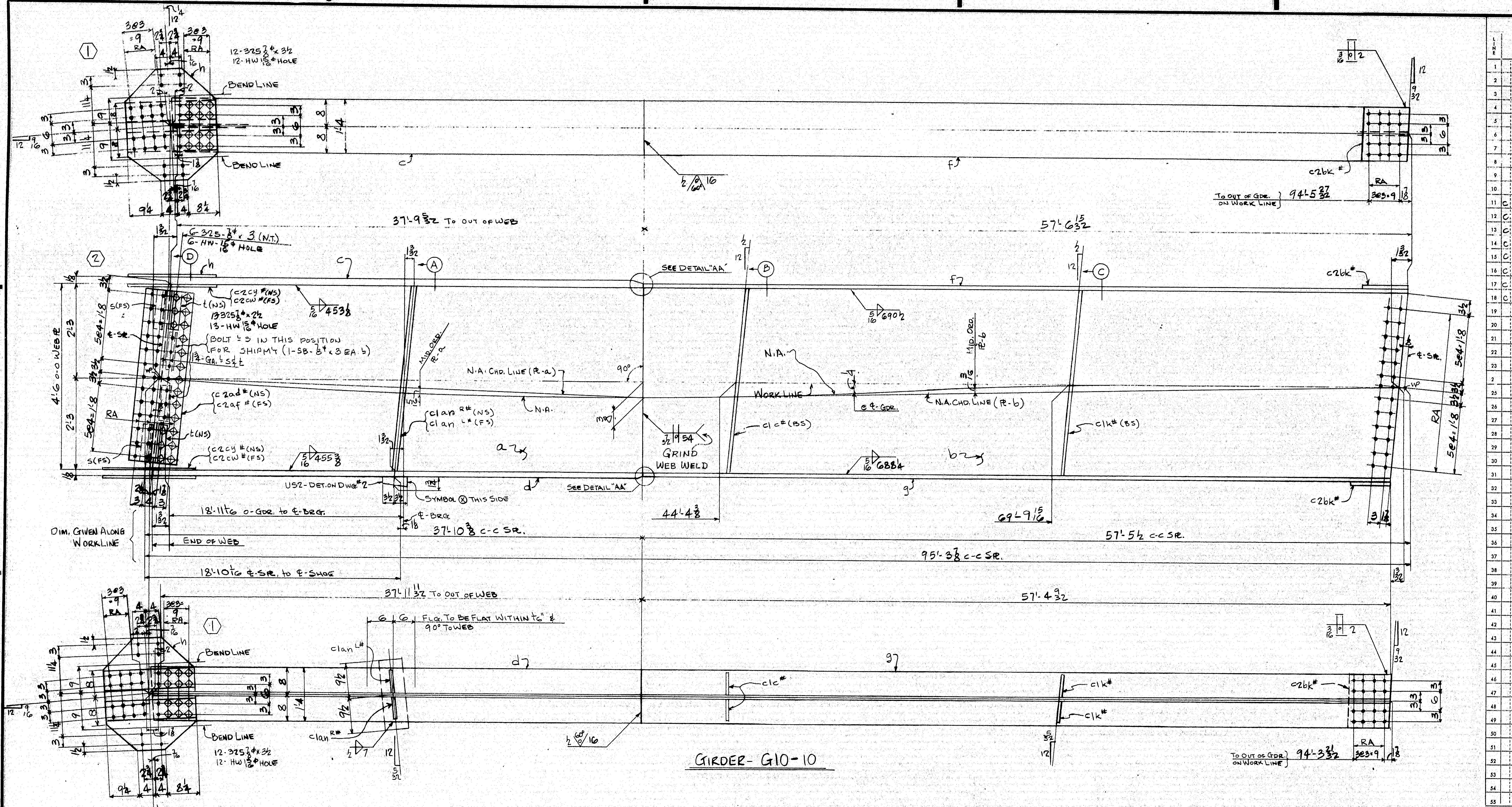
REVISION

GIRDER - G10-9

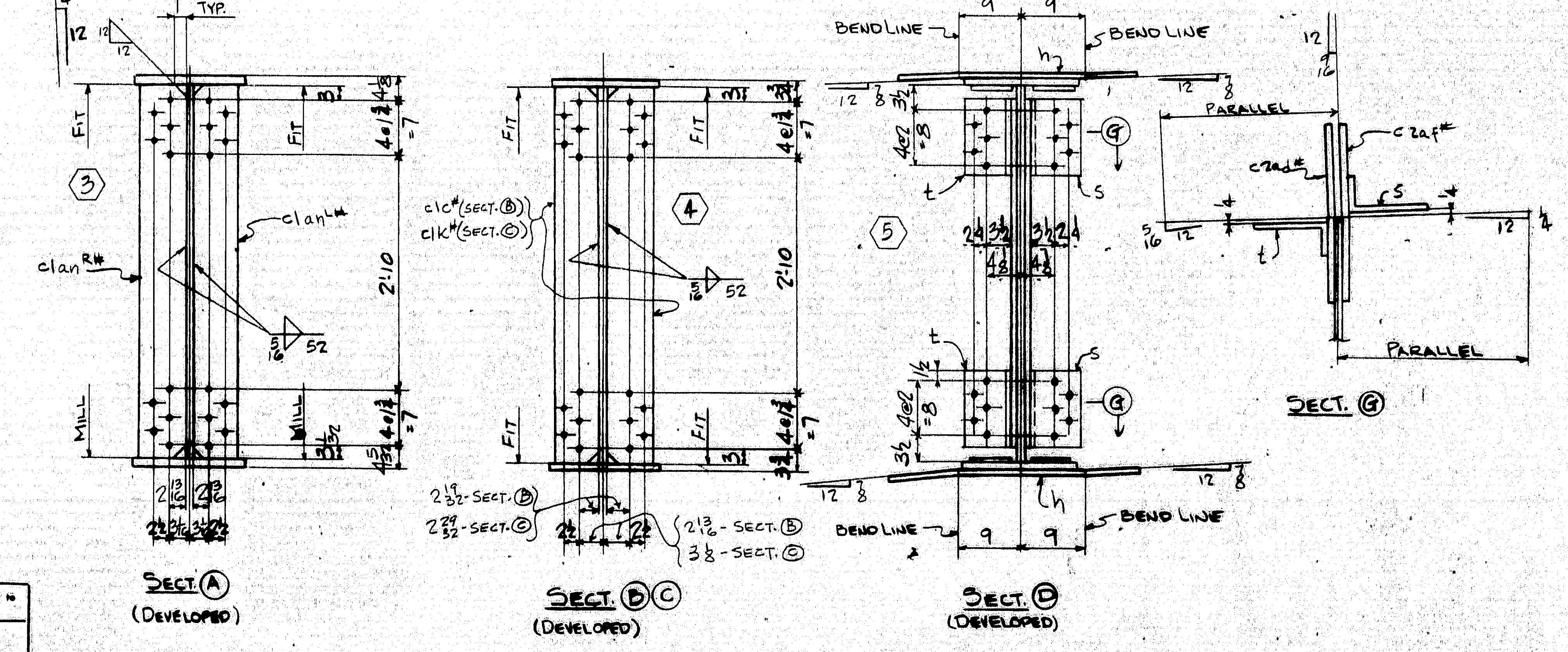
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. No I-95-1(22)16
CONT. No. 3 - NEW HAMPSHIRE APR.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RD DATE 8-19-69 IN CHARGE B.K. BERTOLET
CHECKED BY C.B. DATE 9-11-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 209

107-10

For location of details shown on this sheet refer to diagrams.



GIRDER - G10-10

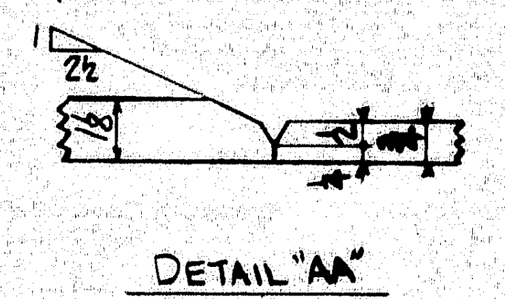


SECT. Ⓐ (DEVELOPED)

SECT. Ⓑ Ⓒ (DEVELOPED)

SECT. Ⓓ (DEVELOPED)

SECT. Ⓖ



DETAIL "AA"

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1		ONE-GIRDER-G10-10												
2		a	1	PL	54		1/2	37	11 11/32	56 x 1/2	38	5 1/4	2	75
3		b	1	PL	54		7/16	57	6 15/32	56 1/2 x 7/16	57	10 3/4	2	73
4		c	1	PLU	16		1 1/8	37	9 5/16		38	7 3/4	3	80
5		d	1	PLU	16		1 1/8	37	11 1/2		38	7 3/4	3	80
6		f	1	PLU	16		3/4	57	6 5/8		57	9 3/4	4	73
7		g	1	PLU	16		3/4	57	4 7/16		57	9 3/4	4	73
8		h	2	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
9		s	2	L	7	3 1/4	1/2	0	11	BENT CF 7 X 4 X 1/2	40	0	36	39
10		t	2	L	7	3 1/4	1/2	0	11	BENT CF 7 X 4 X 1/2	40	0	36	39
11	c	2bk#	2	PL	16		3/8	1	0 7/8		J			
12	c	2cw#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
13	c	2cy#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
14	c	2ad#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
15	c	2af#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
16	c	1an R/L #	1/1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
17	c	1c#	2	BR	7		1/2	4	6	F2E	18	4	24	51
18	c	1k#	2	BR	7		1/2	4	6	F2E	18	4	24	51
19														
20														
21														
22														
23														
2														
25														
26		US2	1	UPPER SHOE						DET. ON DWG. #2				
27			6	325	7/8 ϕ			0	3					
28			13	325	7/8 ϕ			0	2 1/2				M	
29			24	325	7/8 ϕ			0	3 1/2					
30			43	HW	1 3/4	15/16	3/16							
31			2	SB	7/8 ϕ			0	3					
32		SD	1	WD			3/16	0	8					
33														
34		FWL	1	WD			5/16	381	2 1/2					
35		FWS	1	WD			5/16	52	0					
36		FW	1	WD			1/2	1	2					
37		SDS	1	WD			7/16	4	6					
38		VGDS	1	WD			1/2	2	8					
39														
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

INST.-10E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G10-10	GIRDER (31½ x 58¾ x 96-7)	

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
PARK AVE. NEW YORK 17, N.Y.
BY S. S. Nishimura OCT 8 1969

PAY ITEM - 504.711

DOWELS IN R-US2 TO BE PROTECTED DURING SHIPMENT.

[illegible]

MATERIAL A36 STEEL
BOLTS 7/8 ϕ
OPEN HOLES 15/16 ϕ
A325 FIELD BOLTS 7/8 ϕ
SHOP CONTACT SURFACES NO PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE I RED LEAD (UN)

For location of details shown on this sheet refer to diagrams.

GIRDER - G10-10

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. No I-95-1(22)16
CONT. No. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RD DATE 8-19-69 IN CHARGE B. K. BERTOLET
CHECKED BY CB DATE 9-11-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 210

REVISION NO.	DATE	INIT.
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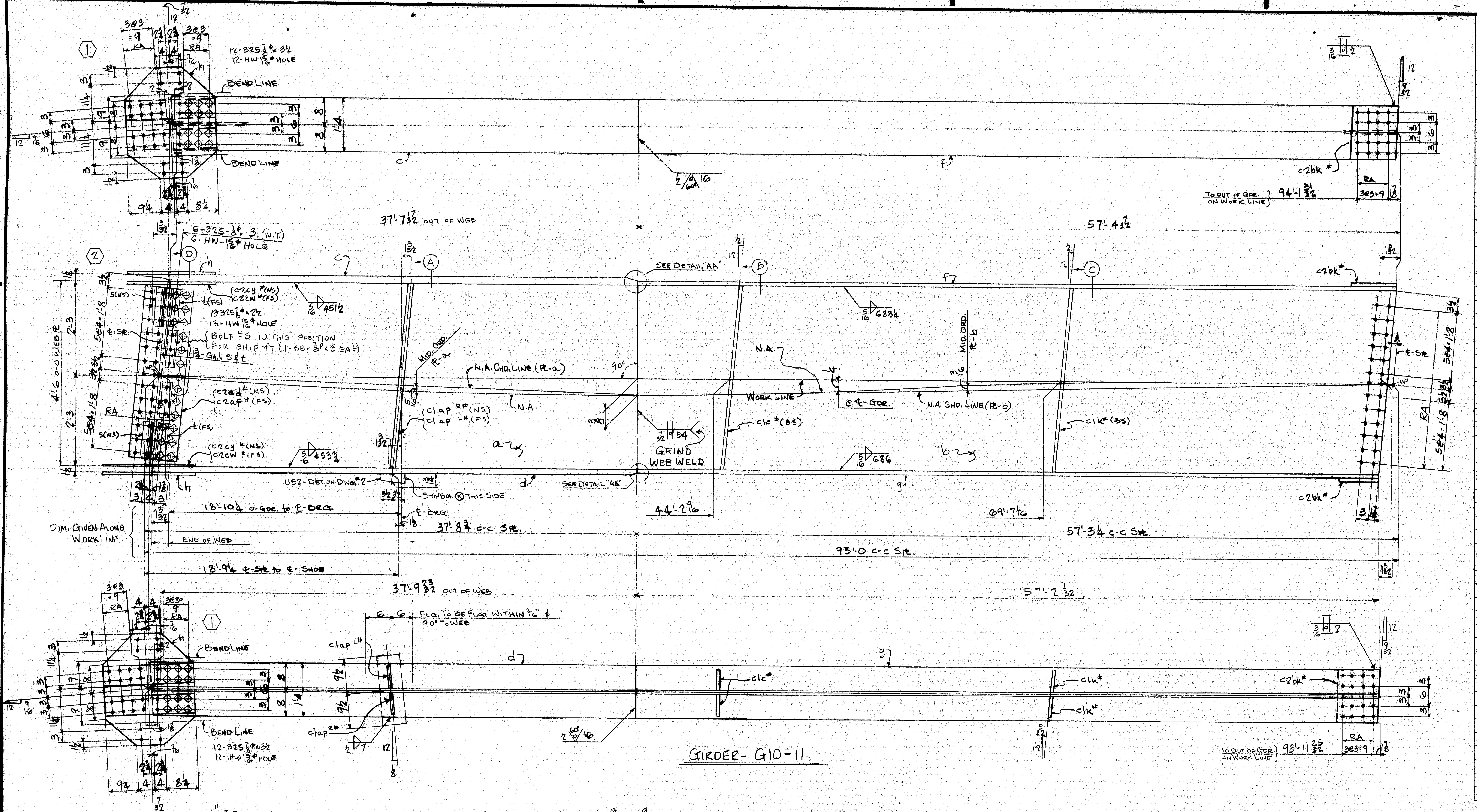
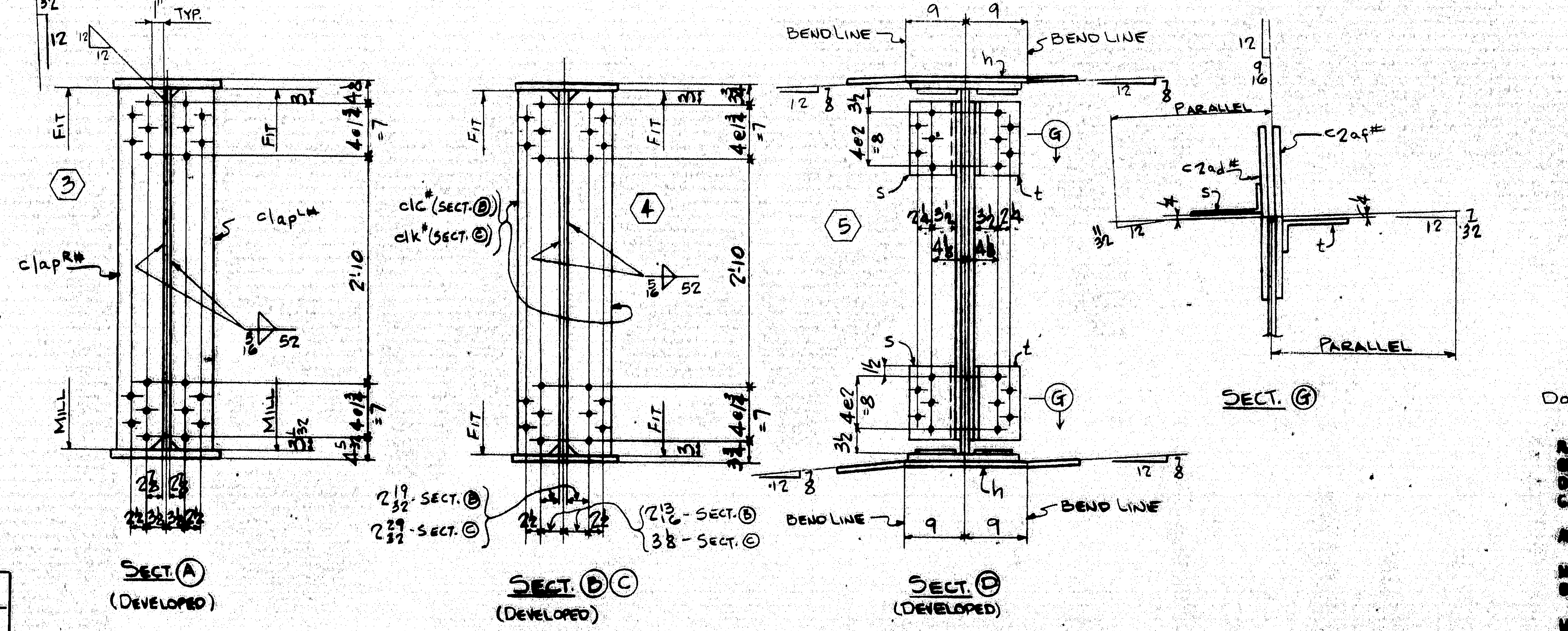
DATE										

187-11

1 2 3 4 5 INCHES



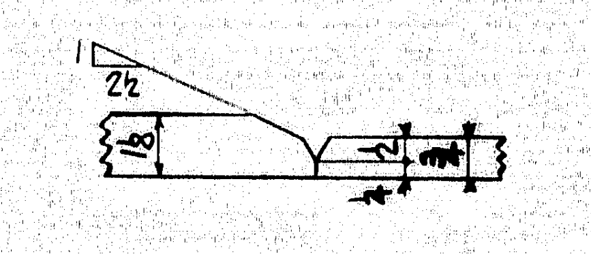
GIRDER- G10-11



SECT. Ⓐ (DEVELOPED)

SECT. Ⓑ Ⓒ (DEVELOPED)

SECT. Ⓓ (DEVELOPED)



DETAIL "AA"

LINE	ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1		ONE	GIRDER	- G10			-11						
2	a	1	PL	54		1/2	37	9 23/32	56×1/2	38	5 1/4	2	75
3	b	1	PL	54		7/16	57	4 7/32	56 1/2×7/16	57	10 3/4	2	73
4	c	1	PLU	16		1 1/8	37	7 11/16		38	7 3/4	3	80
5	d	1	PLU	16		1 1/8	37	9 7/8		38	7 3/4	3	80
6	f	1	PLU	16		3/4	57	4 3/8		57	9 3/4	4	73
7	g	1	PLU	16		3/4	57	2 3/16		57	9 3/4	4	73
8	h	2	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
9	s	2	L	7	3 1/4	1/2	0	11	BENT CF7×4×1/2	40	0	36	39
10	t	2	L	7	3 1/4	1/2	0	11	BENT CF7×4×1/2	40	0	36	39
11	C 2bk#	2	PL	16		3/8	1	0 7/8				J	
12	C 2cw#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
13	C 2cy#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
14	C 2ad#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
15	C 2af#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
16	C 1ap RL#	1/1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
17	C 1c#	2	BR	7		1/2	4	6	F2E	18	4	24	51
18	C 1k#	2	BR	7		1/2	4	6	F2E	18	4	24	51
19													
20													
21													
22													
23													
24													
25													
26	US2	1	UPPER SHOE						DET. ON DWG. #2				
27		6	325	7/8φ			0	3					
28		13	325	7/8φ			0	2 1/2					
29		24	325	7/8φ			0	3 1/2		M			
30		43	HW	[illegible]	15/16	3/16							
31		2	SB	7/8φ			0	3					
32	SD	1	WD			3/16	0	8					
33													
34	FWL	1	WD			5/16	379	11					
35	FWS	1	WD			5/16	52	0					
36	FW	1	WD			1/2	1	2					
37	SDS	1	WD			7/16	4	6					
38	V60S	1	WD			1/2	2	8					
39													
40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													

INST.-10E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G10-11	GIRDER (3 1/4×58 3/4×96'-3 1/4)	

APPROVED
HARDESTY & HANOVER
CONSULTING ENGINEERS
PARK AVE. NEW YORK 17, N.Y.
S. S. Nishimura OCT 8 1969

PAY ITEM - 504.711

DOWELS IN R - US2 TO BE PROTECTED DURING SHIPMENT.

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR [illegible] 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - NP 3

NO [illegible] PERMITTED UNLESS SHOWN [illegible] IN FINAL WELD.

USE [illegible] ELECTRODES [illegible] FOR WELDING.

[illegible]

MATERIAL A36 STEEL
BOLTS 7/8φ
OPEN HOLES 15/16φ
A325 FIELD BOLTS 7/8φ
SHOP CONTACT SURFACES No PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)

GIRDER - G10-11

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. No I-95-1(22)16
CONT. No. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RD DATE 8-20-69 IN CHARGE B.K. BERTOLET
CHECKED BY CB DATE 9-11-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 211

NO.	DATE	INIT.
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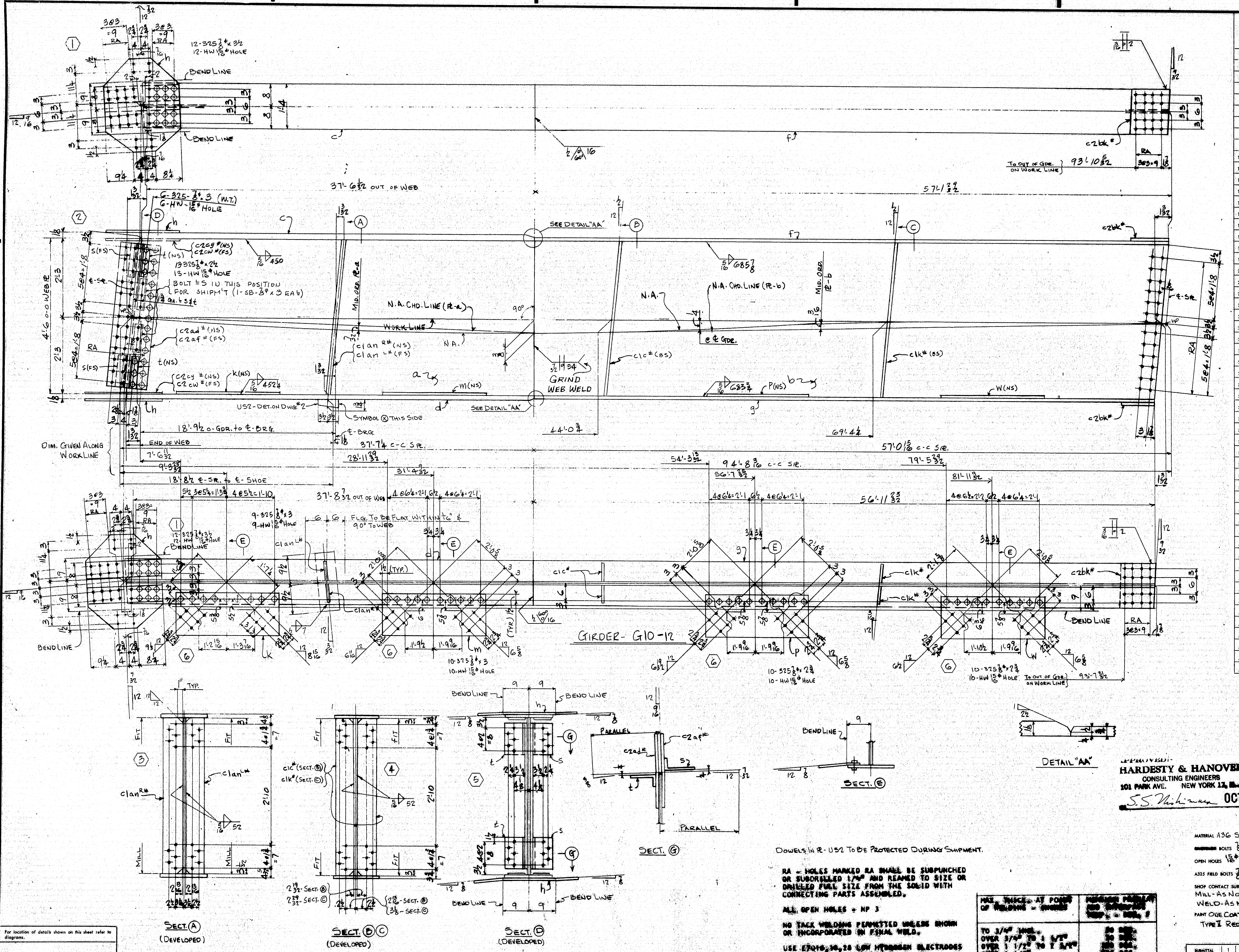
REVISION

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

For location of details shown on this sheet refer to diagrams.

35453 (Rev.C 4-65)

107-12



For location of details shown on this sheet refer to diagrams.

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1		ONE GIRDER - G10-12												
2		a	1	PL	54		½	37	$8\frac{7}{32}$	56×½	38	5¼	2	75
3		b	1	PL	54		$\frac{7}{16}$	57	$1\frac{29}{32}$	56½×$\frac{7}{16}$	57	10¾	2	73
4		c	1	PLU	16		$1\frac{1}{8}$	37	$6\frac{3}{16}$		37	9¼	4	70A
5		d	1	PLU	16		$1\frac{1}{8}$	37	$8\frac{3}{8}$		37	9¼	4	70A
6		f	1	PLU	16		¾	57	$2\frac{1}{16}$		57	9¾	4	73
7		g	1	PLU	16		¾	56	$11\frac{7}{8}$		57	9¾	4	73
8		h	2	PL	25½		½	2	7½	BENT	22	4	24	45
9		k	1	PL	14½		⅝	3	10¼	BENT	26	0	28	19
10		m	1	PL	14½		⅝	4	11½	BENT	26	0	28	19
11		p	1	PL	14½		⅝	4	11½	BENT	26	0	28	19
12		s	2	L	7	3¼	½	0	11	BENT CF 7×4×½	40	0	36	39
13		t	2	L	7	3¼	½	0	11	BENT CF 7×4×½	40	0	36	39
14		w	1	PL	14½		⅝	5	0½	BENT	26	0	28	19
15	C	2bk#	2	PL	16		⅜	1	08				J	
16	C	2cw#	2	BR	6½		½	2	1½		19	0	24	50
17	C	2cy#	2	BR	6½		½	2	1½		19	0	24	50
18	C	2ad#	1	PLU	13		⅜	4	2	BENT	21	1	24	48
19	C	2af#	1	PLU	13		⅜	4	2	BENT	21	1	24	48
20	C	1an R/L #	1/1	BR	7½		¾	4	$6\frac{1}{32}$	MIE FIE	18	4	24	49
21	C	1c#	2	BR	7		½	4	6	F2E	18	4	24	51
22	C	1k#	2	BR	7		½	4	6	F2E	18	4	24	51
23														
24														
25														
26		US2	1	UPPER SHOE						DET. ON DWG. #2				
27			6	325	$\frac{7}{8}$⌀			0	3					
28			13	325	$\frac{7}{8}$⌀			0	2½					
29			24	325	$\frac{7}{8}$⌀			0	3½					
30			43	HW	1¾	$\frac{15}{16}$	$\frac{3}{16}$						M	
31			2	SB	$\frac{7}{8}$⌀			0	3					
32		SD	1	WD			$\frac{3}{16}$	0	8					
33														
34		FWL	1	WD			$\frac{5}{16}$	378	7¾					
35		FWS	1	WD			$\frac{5}{16}$	52	0					
36		FW	1	WD			½	1	2					
37		SDS	1	WD			$\frac{7}{16}$	4	6					
38		V60S	1	WD			½	2	8					
39														
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

INST.-10E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G10-12	GIRDER (34¾ × 58¾ × 95'-11½)	

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S.S. Nishimura OCT 8 1969

PAY ITEM - 504.711

DOWELS IN R-US2 TO BE PROTECTED DURING SHIPMENT.

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES = NP 3

NO TACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE E7016, 18, 28 LOW HYDROGEN ELECTRODES OR GR. SAW-2 FOR WELDING.

MAX. THICK. AT POINT OF WELDING - INCHES	MINIMUM PREHEAT AND INTERPASS TEMP. - DEG. F
TO 3/4" INCL. OVER 3/4" TO 1 1/2" OVER 1 1/2" TO 2 1/2" OVER 2 1/2"	50 DEG. 70 DEG. 150 DEG. 225 DEG.

MATERIAL A36 STEEL
BOLTS $\frac{7}{8}$⌀
OPEN HOLES $\frac{15}{16}$⌀
A325 FIELD BOLTS $\frac{7}{8}$⌀
SHOP CONTACT SURFACES NO PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)

GIRDER - G10-12

REVISION NO.	DATE	INIT.
0		
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4		
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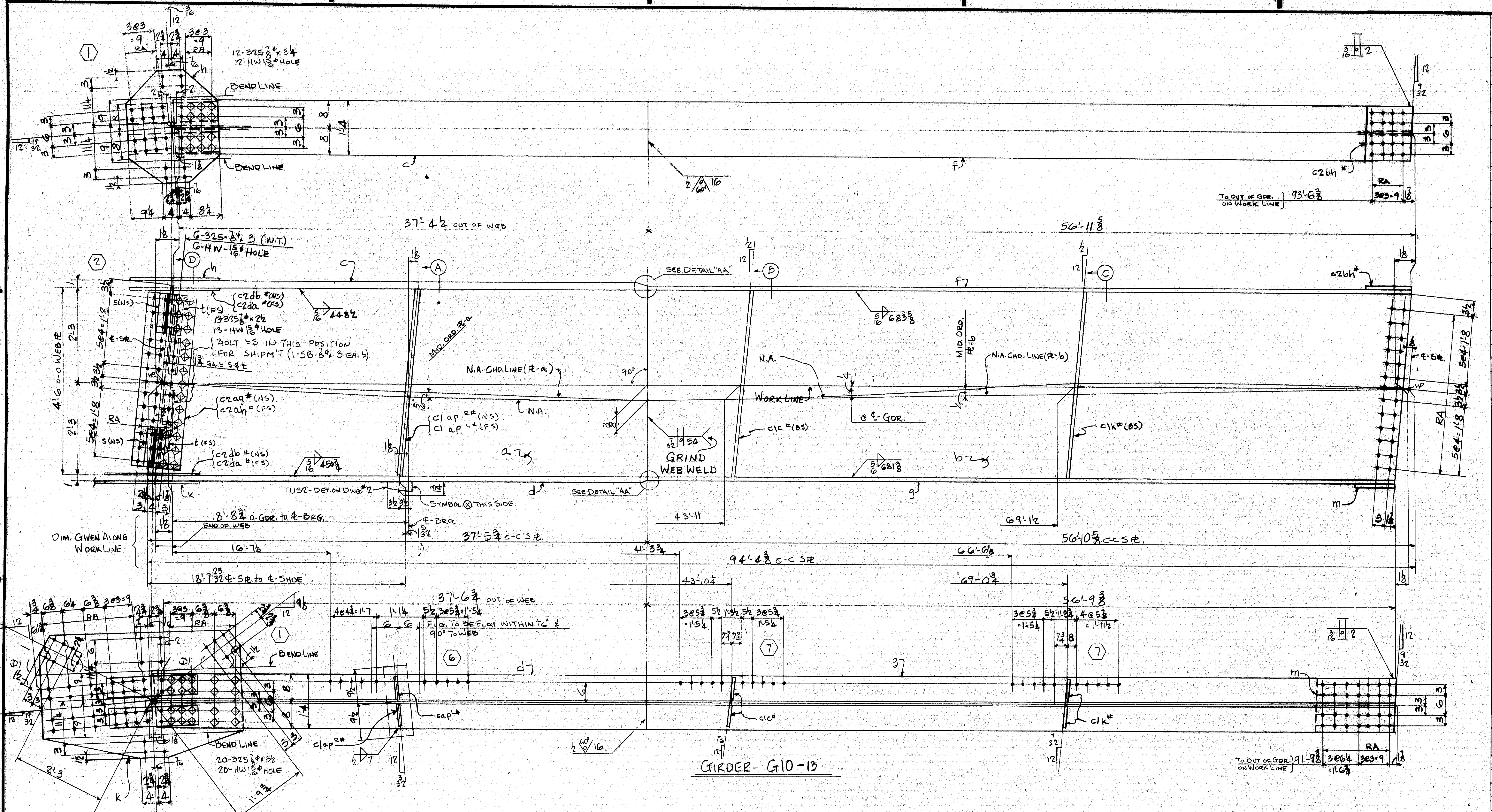
1		

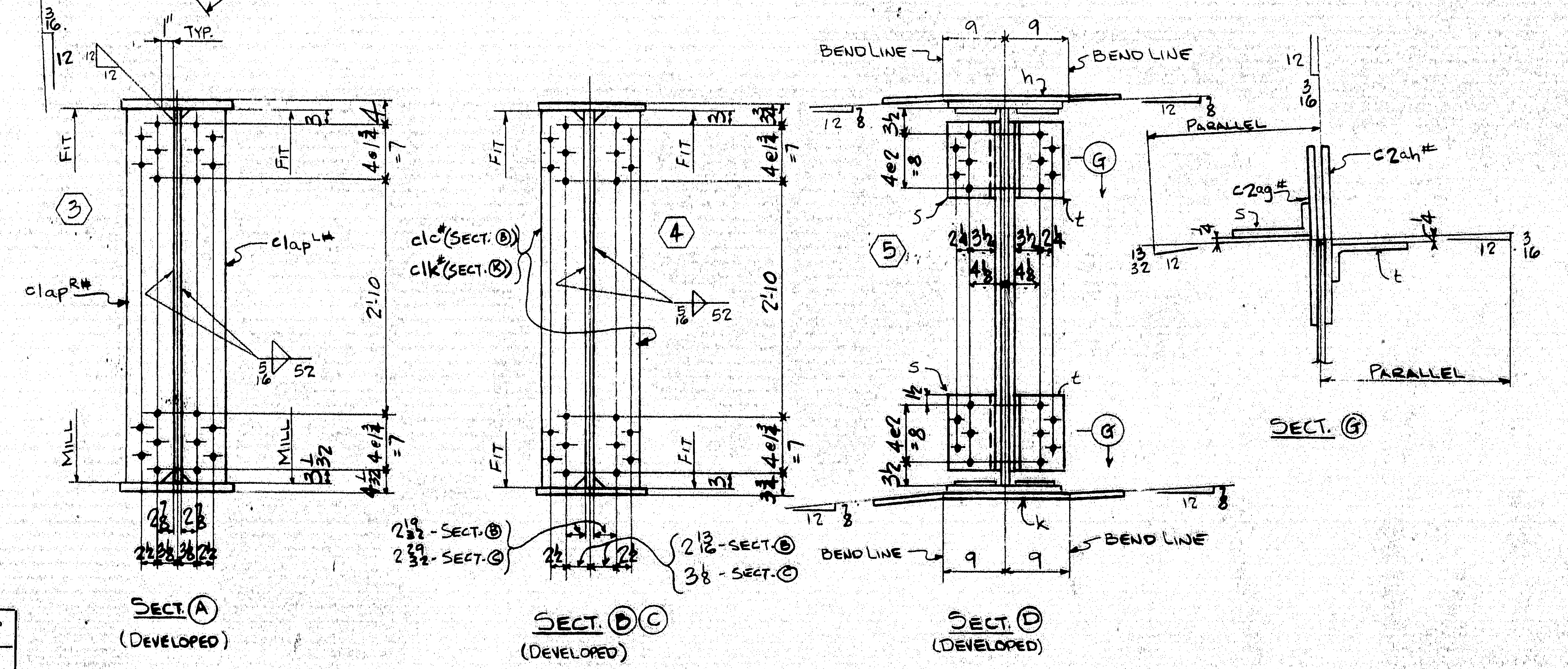
SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

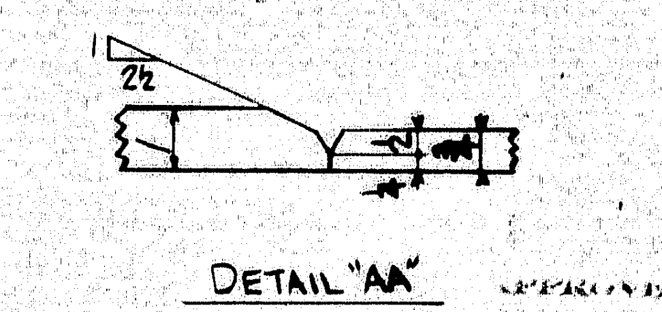
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. NO I-95-1(22)16
CONT. NO. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RD DATE 8-20-69 IN CHARGE B.K. BERTOLET
CHECKED BY CB DATE 9-11-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 212

1

107-13







LINE	ASSEMBLY MARK		NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	MILL ORDER ITEM PAGE	MILL ORDER ITEM LINE
1		ONE-GIRDER-G10-13												
2		a	1	PL	54		½	37	6¾	56x½	38	5¼	2	75
3		b	1	PL	54		7/16	56	11⅝	56½x7/16	57	10¾	2	73
4		c	1	PLU	16		1	37	4⅝		37	9¼	4	70
5		d	1	PLU	16		1	37	6⅞		37	9¼	4	70
6		f	1	PLU	16		¾	56	11¾		57	1	4	74
7		g	1	PLU	16		¾	56	9½		57	1	4	74
8		h	1	PL	25½		½	2	7½	BENT	22	4	24	45
9		k	1	PL	36½		⅝	4	9¾	BENT			J	
10		m	1	PL	16		¼	2	7⅝				J	
11		s	2	L	7	3¼	½	0	11	BENT } OF 7x4x½	40	0	36	39
12		t	2	L	7	3¼	½	0	11	BENT }	40	0	36	39
13	c	2bh#	1	PL	16		¼	1	0⅜				J	
14	c	1apL R#	1	BR	7½		¾	4	6 3/32	MIE FIE	18	4	24	49
15	c	1c#	2	BR	7		½	4	6	F2E	18	4	24	51
16	c	1k#	2	BR	7		½	4	6	F2E	18	4	24	51
17	c	2da#	2	BR	6½		½	2	1½		19	0	24	50
18	c	2db#	2	BR	6½		½	2	1½		19	0	24	50
19	c	2ag#	1	PLU	13		⅜	4	2	BENT	21	1	24	48
20	c	2ah#	1	PLU	13		⅜	4	2	BENT	21	1	24	48
21														
22														
23														
24														
25			6	325	⅞⌀			0	3					
26		US2	1	UPPER SHOE						DET. ON DWG. #2				
27			12	325	⅞⌀			0	3¼	}				
28			13	325	⅞⌀			0	2½					
29			20	325	⅞⌀			0	3½				M	
30			51	HW	1¾	15/16	3/16							
31			2	SB	⅞⌀			0	3					
32		SD	1	WD			3/16	0	8					
33														
34		FWL	1	WD			5/16	377	4½					
35		FWS	1	WD			5/16	52	0					
36		FW	1	WD			½	1	2					
37		SDS	1	WD			7/16	4	6					
38		VG0S	1	WD			½	2	8					
39														
40														
41														
42														
43														
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48														
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53														
54														
55														

INST.-10E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G10-13	GIRDER (36½x59 x 97'-3½)	

PAY ITEM - 504.711

DOWELS IN PL-US2 TO BE PROTECTED DURING SHIPMENT.

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - NP 3

NO TACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE E7016,18,28 LOW HYDROGEN ELECTRODES OR [illegible] SAW-2 FOR WELDING.

[illegible]	[illegible]
[illegible]	[illegible]

For location of details shown on this sheet refer to diagrams.

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S.S. Nishimura NOV 25 1969

MATERIAL A36 STEEL
BOLTS ⅞⌀
OPEN HOLES 15/16⌀
A325 FIELD BOLTS ⅞⌀
SHOP CONTACT SURFACES No PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)

GIRDER - G10-13

REVISION NO.	DATE	INIT.
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1	11-4-69	2/CB

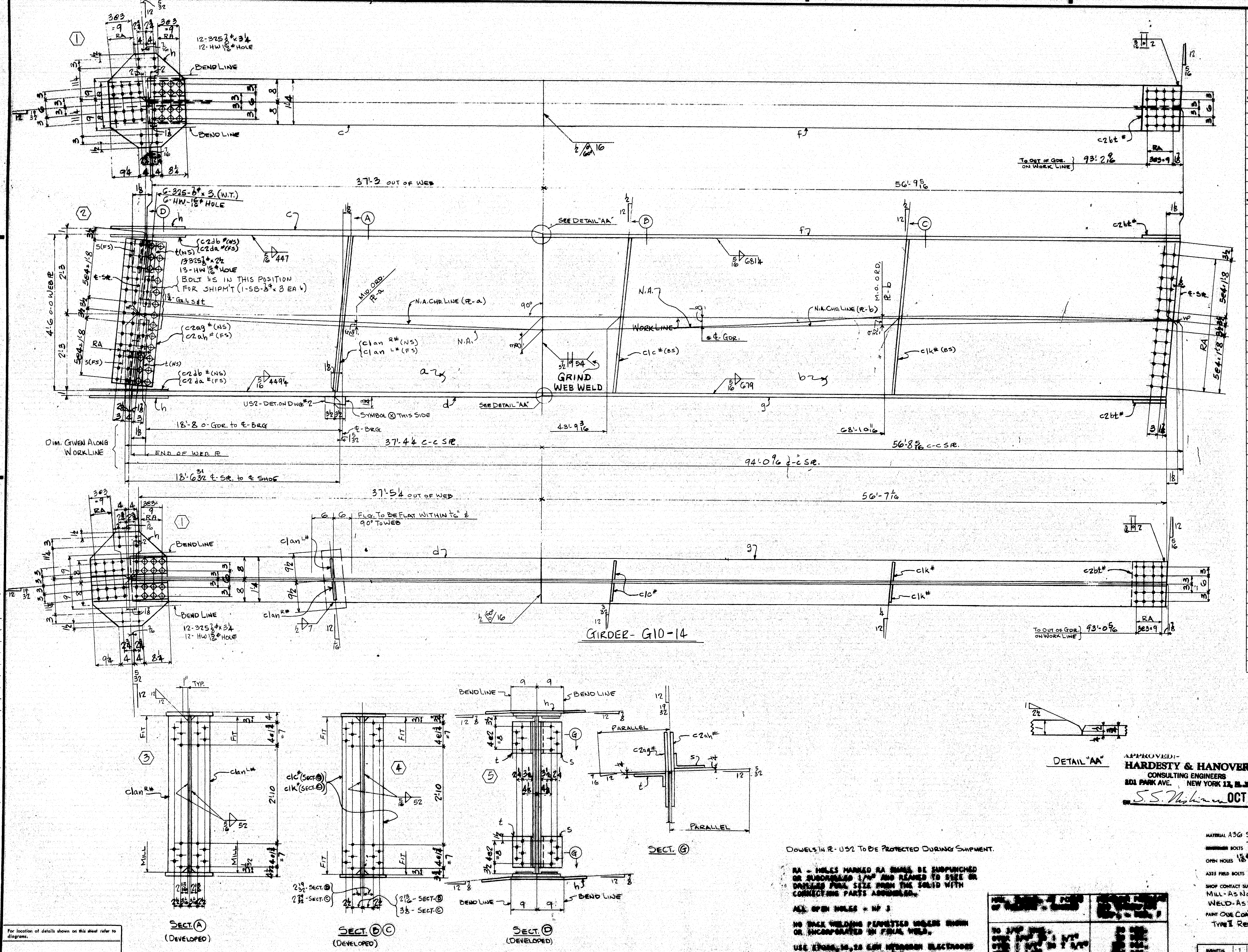
SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. NO I-95-1(22)16
CONT. NO. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RD DATE 8-21-69 IN CHARGE B.K. BERTOLET
CHECKED BY CB DATE 9-11-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 213

107-14



GIRDER - G10-14

LINE		ASSEMBLY MARK	NO.	SHAPE	SIZE	SIZE OR POUNDS	THICK	FT.	IN.	REMARKS	MILL ORDER LENGTH FT.	IN.	PAGE	LINE
1		ONE-GIRDER-G10-14												
2		a	1	PL	54		½	37	5¼	56x½	38	5¼	2	75
3		b	1	PL	54		7/16	56	9 5/16	56½x7/16	57	10½	2	75
4		c	1	PLU	16		1	37	3⅜		37	9¼	4	70
5		d	1	PLU	16		1	37	5⅜		37	9¼	4	70
6		f	1	PLU	16		¾	56	9½		57	1	4	74
7		g	1	PLU	16		¾	56	7¼		57	1	4	74
8		h	2	PL	25½		½	2	7½	BENT	22	4	24	45
9		s	2	L	7	3½	½	0	11	BENT } CF 7x4x½ L	40	0	36	39
10		t	2	L	7	3½	½	0	11	BENT }	40	0	36	39
11	c	2bt#	2	PL	16		¼	1	0 29/32		J			
12	c	2da#	2	BR	6½		½	2	1½		19	0	24	50
13	c	2db#	2	BR	6½		½	2	1½		19	0	24	50
14	c	2ag#	1	PLU	13		⅜	4	2	BENT	21	1	24	48
15	c	2ah#	1	PLU	13		⅜	4	2	BENT	21	1	24	48
16	c	1an R/L #	1/1	BR	7½		¾	4	6 1/32	MIE FIE	18	4	24	49
17	c	1c#	2	BR	7		½	4	6	F2E	18	4	24	51
18	c	1k#	2	BR	7		½	4	6	F2E	18	4	24	49
19														
20														
21														
22														
23														
24														
25														
26		US2	1	UPPER SHOE						DET. ON DWG #2				
27			6	325	⅞ϕ			0	3					
28			13	325	⅞ϕ			0	2½	}				
29			24	325	⅞ϕ			0	3¼	}				
30			43	HW	1¾	15/16	3/16			}	M			
31			2	SB	⅞ϕ			0	3	}				
32		SD	1	WD			3/16	0	8					
33														
34		FWL	1	WD			5/16	376	0¾					
35		FWS	1	WD			5/16	52	0					
36		FW	1	WD			½	1	2					
37		SDS	1	WD			7/16	4	6					
38		V60S	1	WD			½	2	8					
39														
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

INST.-10E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G10-14	GIRDER (31½ x 58¾ x 95'-3¾)	

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S.S. Nishin OCT 8 1969

PAY ITEM - 504.711

DOWELS IN R-US2 TO BE PROTECTED DURING SHIPMENT.

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - Nº 3

NO TACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE E70XX, 16, 28 LOW HYDROGEN ELECTRODES OR [illegible] SAW-2 FOR WELDING.

[illegible]	[illegible]
TO 3/4" [illegible] OVER 3/4" TO 1 1/2" OVER 1 1/2" TO 2 1/2" OVER 2 1/2"	[illegible]

MATERIAL A36 STEEL
BOLTS ⅞ϕ
OPEN HOLES 15/16ϕ
A325 FIELD BOLTS ⅞ϕ
SHOP CONTACT SURFACES No PAINT
MILL-AS NOTED
WELD-AS NOTED
PAINT ONE COAT AASHO-M72-TYPE I RED LEAD (UN)

NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

REVISION

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

GIRDER - G10-14

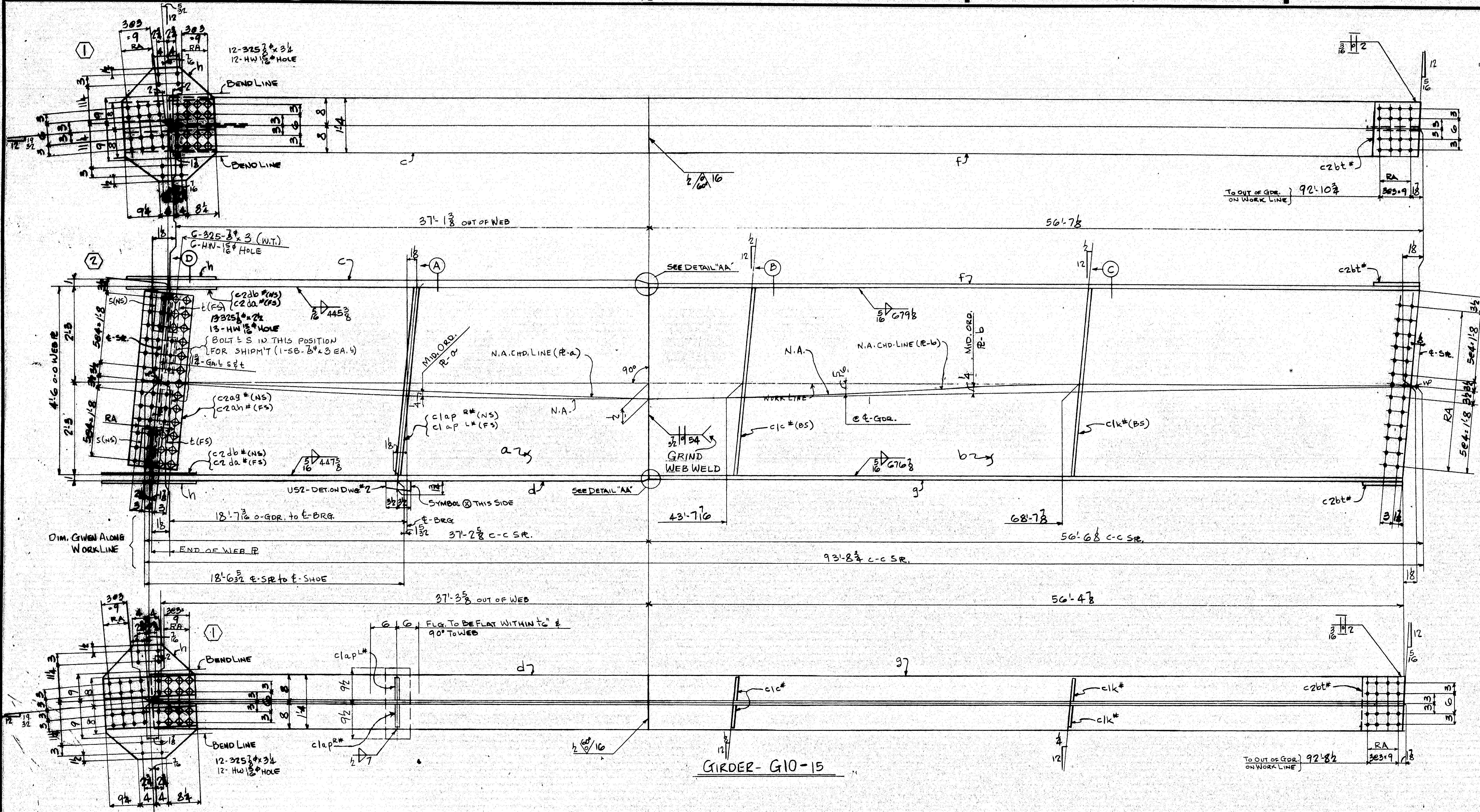
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. NO I-95-1(22)16
CONT. NO. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RD DATE 8-21-69 IN CHARGE B.K. BERTOLET
CHECKED BY C.B DATE 9-11-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 214

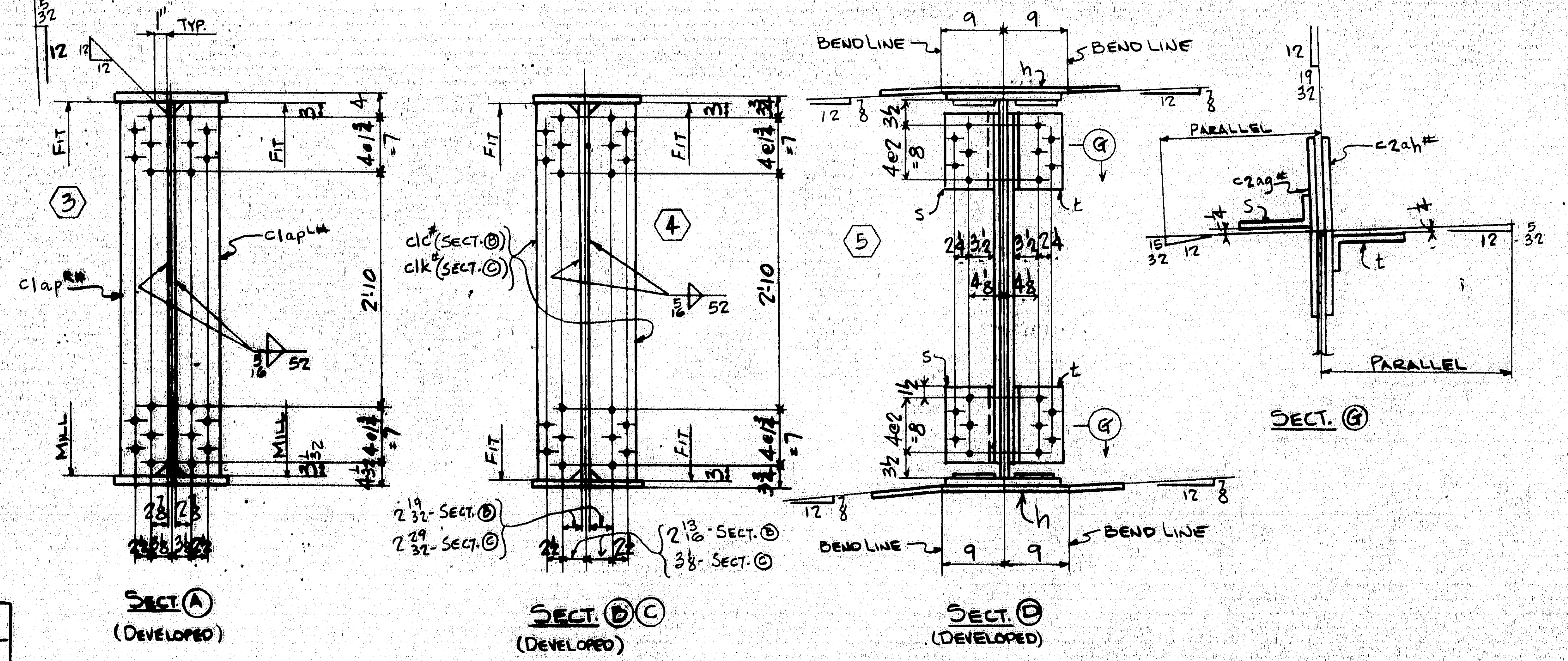
For location of details shown on this sheet refer to diagrams.

1

187-15 OCT 7



GIRDER- G10-15

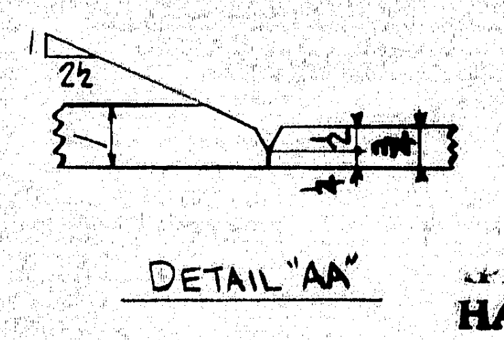


SECT. Ⓐ (DEVELOPED)

SECT. Ⓑ Ⓒ (DEVELOPED)

SECT. Ⓔ (DEVELOPED)

SECT. Ⓖ



DETAIL "AA"

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	
1		ONE GIRDER - G10 - 15												
2		a	1	PL	54		1/2	37	3 5/8	56×1/2	38	5 1/4	2	75
3		b	1	PL	54		7/16	56	7 3/8	56 1/2×7/16	57	10 3/4	2	73
4		c	1	PLU	16		1	37	1 1/2		37	9 1/4	4	70
5		d	1	PLU	16		1	37	3 1/2		37	9 1/4	4	70
6		f	1	PLU	16		3/4	56	7 5/16		57	1	4	74
7		g	1	PLU	16		3/4	56	5 1/16		57	1	4	74
8		h	2	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
9		s	2	L	7	3 1/4	1/2	0	11	BENT } CF 7×4×1/2 L	40	0	36	39
10		t	2	L	7	3 1/4	1/2	0	11	BENT } CF 7×4×1/2 L	40	0	36	39
11	c	2bt#	2	PL	16		1/4	1	0 29/32				J	
12	c	2da#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
13	c	2db#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
14	c	2ag#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
15	c	2ah#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
16	c	1ap R/L #	1/1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
17	c	1c#	2	BR	7		1/2	4	6	F2E	18	4	24	51
18	c	1k#	2	BR	7		1/2	4	6	F2E	18	4	24	51
19														
20														
21														
22														
23														
24														
25														
26		US2	1	UPPER SHOE						DET. ON DWG. #2				
27			6	325	7/8⌀			0	3					
28			13	325	7/8⌀			0	2 1/2					
29			24	325	7/8⌀			0	3 1/4					
30			43	HW	1 3/4	15/16	3/16						M	
31			2	SB	7/8⌀			0	3					
32		SD	1	WD			3/16	0	8					
33														
34		FWL	1	WD			5/16	374	10					
35		FWS	1	WD			5/16	52	0					
36		FW	1	WD			1/2	1	2					
37		SDS	1	WD			7/16	4	6					
38		V60S	1	WD			1/2	2	8					
39														
40														
41														
42														
43														
44														
45														
46														
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51														
52														
53														
54														
55														

INST.-10E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G10-15	GIRDER (31 1/2×58 3/8×95'-0)	

APPROVED:
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S. S. Nishimura OCT 8 1969

PAY ITEM - 504.711

DOWELS IN ℞ - US2 TO BE PROTECTED DURING SHIPMENT.

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED [illegible] AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES = NP 3

NO TACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE [illegible] ELECTRODES OR [illegible] FOR WELDING.

MAX. THICK. AT POINT OF WELDING - INCHES	MINIMUM PREHEAT AND INTERPASS TEMP. - DEG. F
TO 3/4" INCL.	[illegible] DEG.
OVER 3/4" TO 1 1/2"	[illegible] DEG.
OVER 1 1/2" TO 2 1/2"	[illegible] DEG.
OVER 2 1/2"	[illegible] DEG.

MATERIAL A36 STEEL
BOLTS 7/8⌀
OPEN HOLES 15/16⌀
A325 FIELD BOLTS 7/8⌀
SHOP CONTACT SURFACES NO PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)

GIRDER - G10-15

REVISION NO.	DATE	INT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

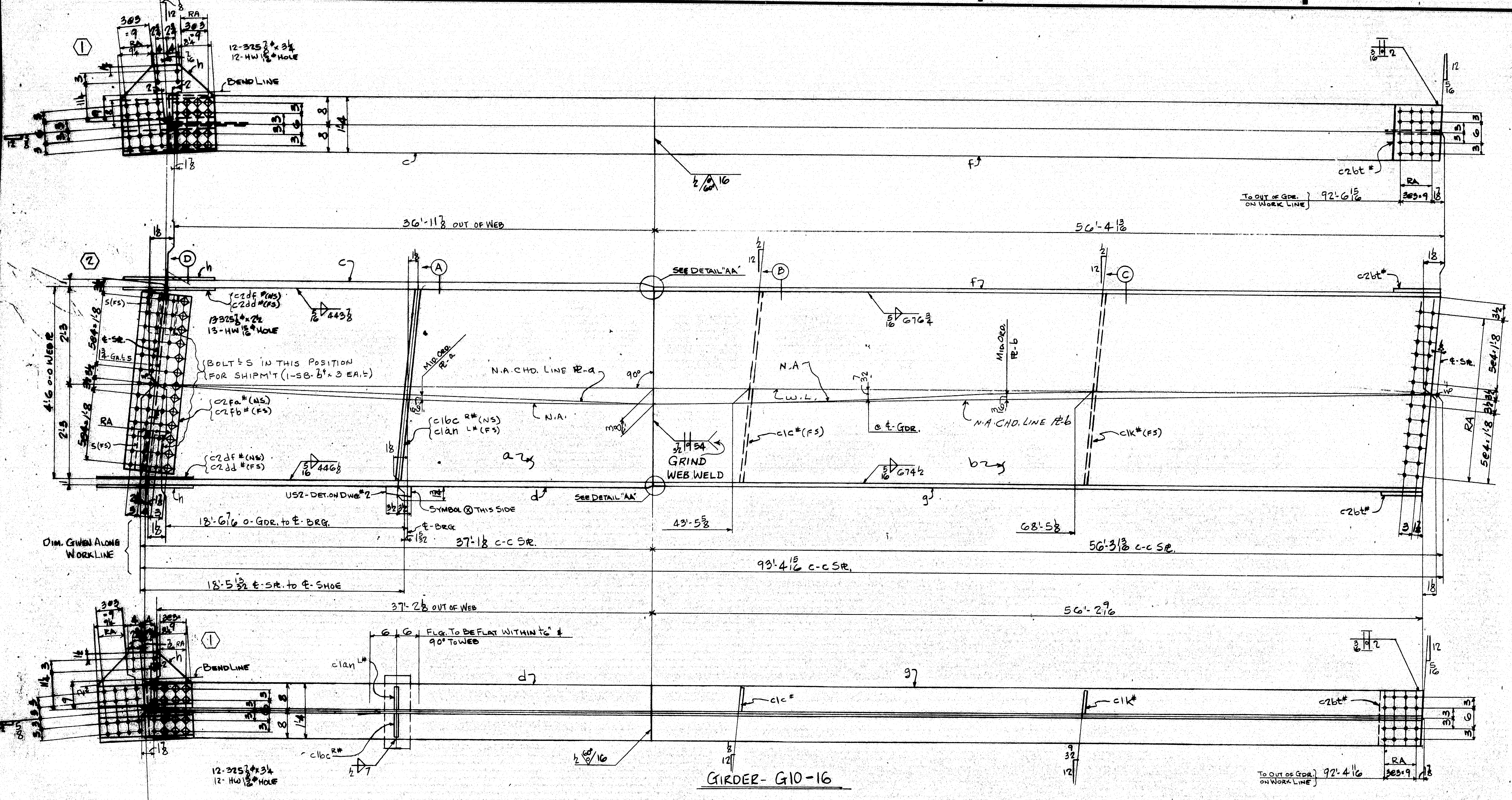
CUSTOMER
MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. NO I-95-1(22)16
CONT. NO. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RD DATE 8-21-69 IN CHARGE B.K. BERTOLET
CHECKED BY CB DATE 9-11-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 215

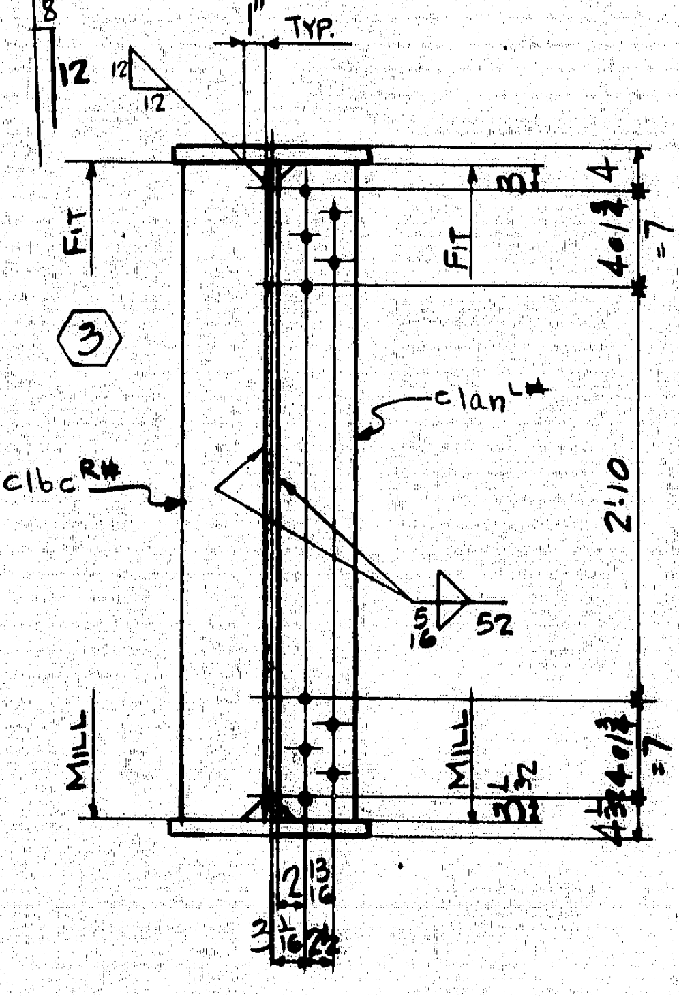
For location of details shown on this sheet refer to diagrams.

107-16

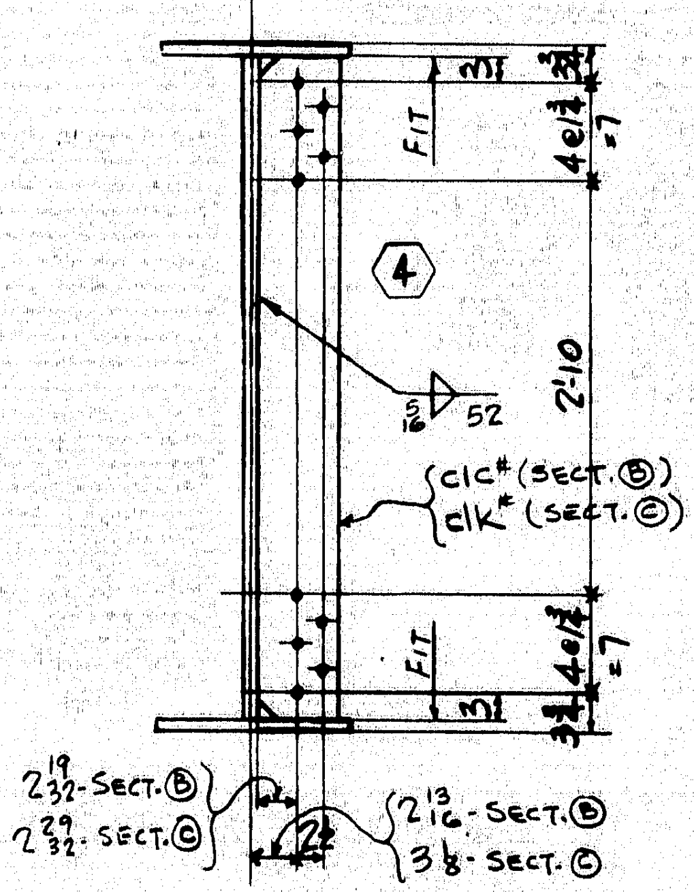
0 1 2 3 4 5 INCHES



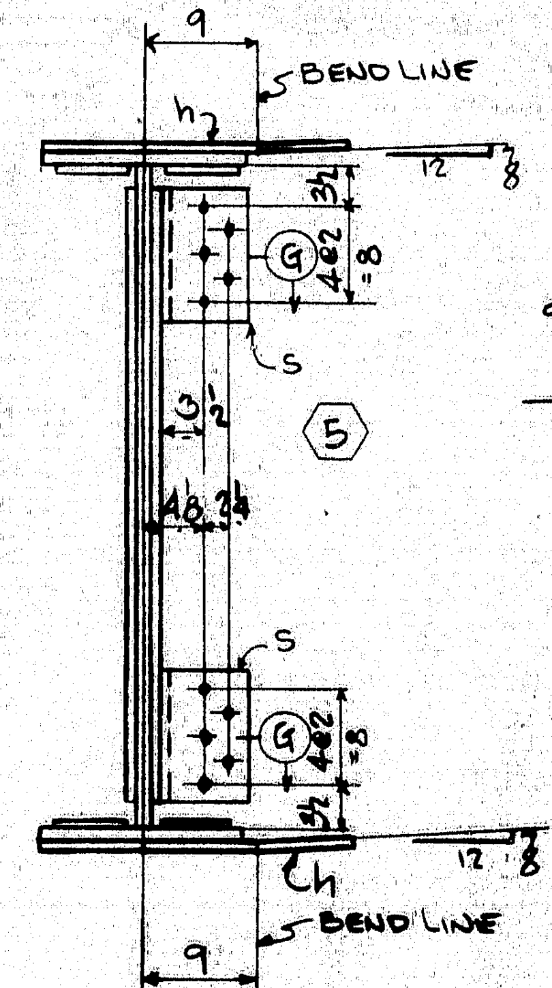
GIRDER- G10-16



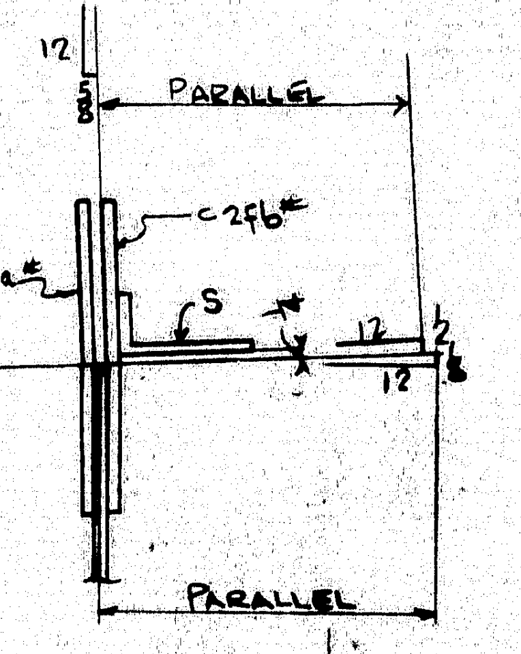
SECT. Ⓐ
(DEVELOPED)



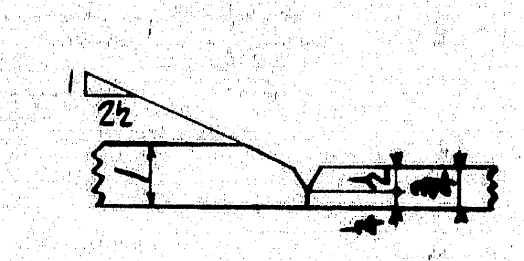
SECT. Ⓑ Ⓒ
(DEVELOPED)



SECT. Ⓓ
(DEVELOPED)



SECT. Ⓖ



DETAIL "AA"

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	PAGE	LINE
1		ONE-GIRDER-G10-16													
2		a	1	PL	54		1/2	37	2 5/8		56×1/2	38	5 1/4	2	[illegible]
3		b	1	PL	54		7/16	56	4 13/16		56×7/16	57	10 3/4	2	73
4		c	1	PLU	16		1	36	11 15/16			37	9 1/4	4	[illegible]
5		d	1	PLU	16		1	37	2 9/16			37	9 1/4	4	[illegible]
6		f	1	PLU	16		3/4	56	5			57	1	4	[illegible]
7		g	1	PLU	16		3/4	56	2 3/4			57	1	4	[illegible]
8		h	2	PL	25 1/2		1/2	1	11 3/4	BENT		22	4	24	[illegible]
9		s	2	L	7	3 1/4	1/2	0	11	BENT CF 7×4×1/2		40	0	36	39
10	c	2bt#	2	PL	16		1/4	1	0 29/32		J				
11	c	2dd#	2	BR	6 1/2		1/2	2	1 1/2			19	0	24	50
12	c	2df#	2	BR	6 1/2		1/2	2	1 1/2			19	0	24	50
13	c	2fa#	1	PW	13		3/8	4	2	BENT		21	1	24	[illegible]
14	c	2fb#	1	PW	13		3/8	4	2	BENT		21	1	24	[illegible]
15	c	1bc R#	1	BR	7 1/2		3/4	4	6 1/32	MIE FIE		18	4	24	49
16	c	1an L#	1	BR	7 1/2		3/4	4	6 1/32	MIE FIE		18	4	24	49
17	c	1c#	1	BR	7		1/2	4	6	F2E		18	4	24	51
18	c	1k#	1	BR	7		1/2	4	6	F2E		18	4	24	51
19															
20															
21															
22															
23															
24															
25															
26		US2	1	UPPER SHOE						DET. ON DWG. #2					
27															
28			13	325	7/8 ϕ			0	2 1/2						
29			24	325	7/8 ϕ			0	3 1/4						
30			37	HW	1 3/4	15/16	3/16				M				
31			2	SB	7/8 ϕ			0	3						
32		SD	1	WD			3/16	0	8						
33															
34		FWL	1	WD			5/16	373	6 1/2						
35		FWS	1	WD			5/16	34	8						
36		FW	1	WD			1/2	1	2						
37		SDS	1	WD			7/16	4	6						
38		V60S	1	WD			1/2	2	8						
39															
40															
41															
42															
43															
44															
45															
46															
47															
48															
49															
50															
51															
52															
53															
54															
55															

INST.-10E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G10-16	GIRDER (25 1/4×58 3/4×94'-6)	

HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S. S. Nishimura OCT 8 1969

PAY ITEM - 504.711

DOWELS IN R-US2 TO BE PROTECTED DURING SHIPMENT.

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES = NP 3

NO BACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE [illegible] LOW HYDROGEN ELECTRODES OR [illegible] FOR WELDING.

MAX. THICK. AT POINT OF WELDING - INCHES	MINIMUM PREHEAT AND INTERPASS TEMP. - DEG. F
TO 3/4" INCL.	[illegible] DEG.
OVER 3/4" TO 1 1/2"	[illegible] DEG.
OVER 1 1/2" TO 2 1/2"	[illegible] DEG.
OVER 2 1/2"	[illegible] DEG.

MATERIAL A36 STEEL
BOLTS 7/8"
OPEN HOLES 15/16"
A325 FIELD BOLTS 7/8 ϕ
SHOP CONTACT SURFACES NO PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

REVISION

GIRDER-G10-16

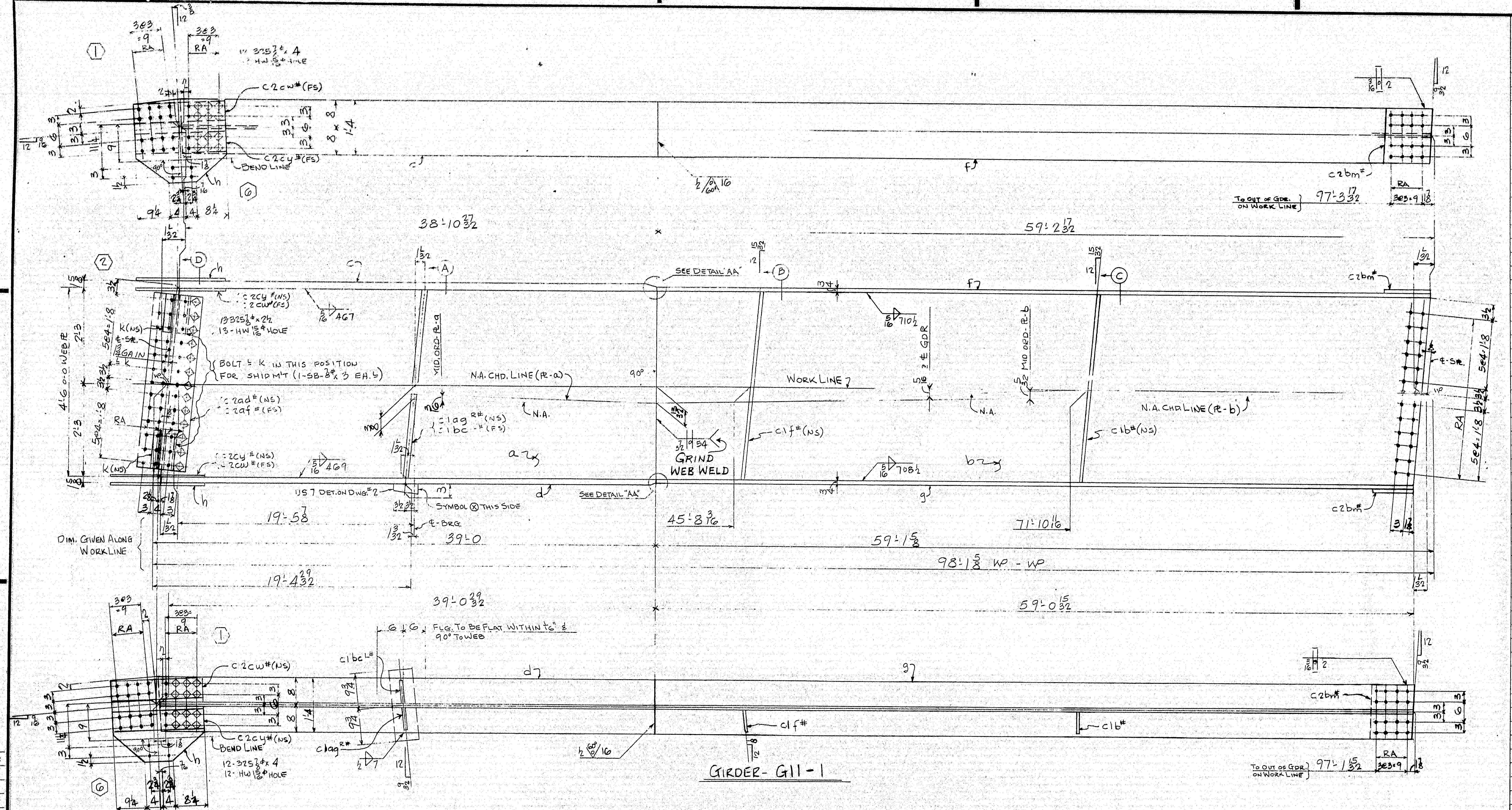
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. NO I-95-1(22)16
CONT. NO. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RD DATE 8-22-69 IN CHARGE B.K. BERTOLET
CHECKED BY CB DATE 9-11-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 216

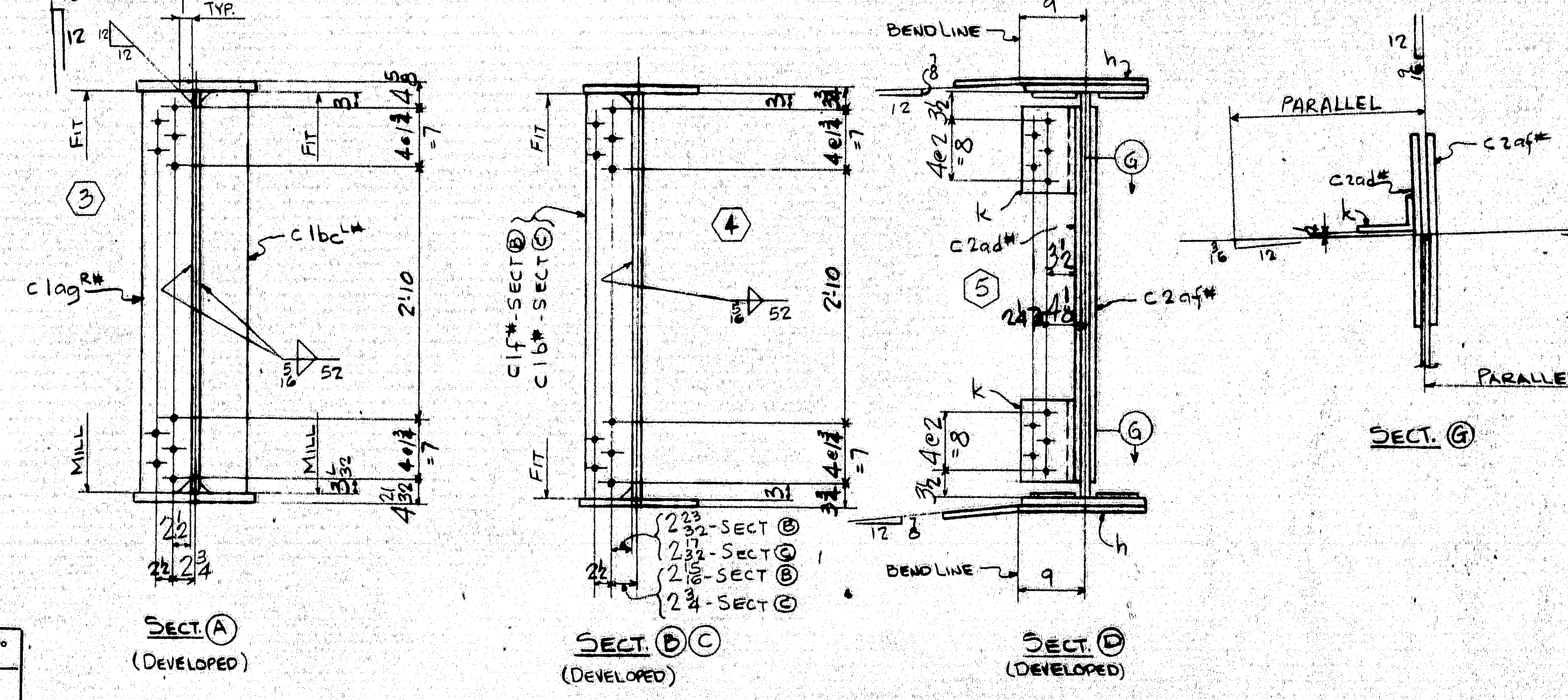
For location of details shown on this sheet refer to diagrams.

107-17

INCHES 0 1 2 3 4 5



GIRDER - G11-1

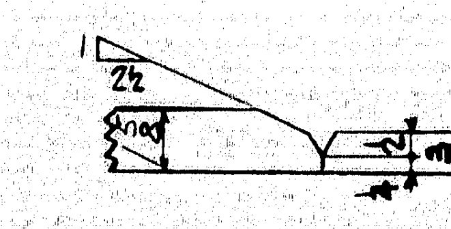


SECT. Ⓐ (DEVELOPED)

SECT. Ⓑ Ⓒ (DEVELOPED)

SECT. Ⓓ (DEVELOPED)

SECT. Ⓖ



DETAIL "AA"

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1			ONE	GIRDER	- G11		-1							
2		a	1	PL	54		1/2	39	0 29/32	56 × 1/2	39	6 1/2	2	74
3		b	1	PL	54		7/16	59	2 17/32	56 1/2 × 7/16	59	7 1/4	2	71
4		c	1	PLU	16		1 5/8	38	11 3/32		39	2	3	71
5		d	1	PLU	16		1 5/8	39	1 5/32		39	2	3	71
6		f	1	PLU	16		3/4	59	2 11/16		59	4	4	71
7		g	1	PLU	16		3/4	59	0 5/8		59	4	4	71
8		h	2	PL	25 1/2		1/2	1	11 3/4	(BENT)	22	4	24	45
9		k	2	L	7	3 1/4	1/2	0	11	(BENT) C.F. 7 × 4 × 1/2	40	0	36	39
10														
11														
12	C	1ag R#	1	BR	7 1/2		3/4	4	6 1/32	(M1E)(F1E)	18	4	24	49
13	C	1bc L#	1	BR	7 1/2		3/4	4	6 1/32	(M1E)(F1E)	18	4	24	49
14	C	1b#	1	BR	7		1/2	4	6	(F2E)	18	4	24	51
15	C	1f#	1	BR	7		1/2	4	6	(F2E)	18	4	24	51
16	C	2cw#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
17	C	2cy#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
18	C	2ad#	1	PLW	13		3/8	4	2	(BENT)	21	1	24	48
19	C	2af#	1	PLW	13		3/8	4	2	(BENT)	21	1	24	48
20	C	2bm#	2	PL	16		1/2	1	0 7/8		20	2	24	46
21														
22														
23														
24														
25														
26		US7	1	UPPER	SHOE					DET. ON DWG. #2				
27			2	SB	7/8 φ			0	3					
28			13	325	7/8 φ			0	2 1/2					
29			24	325	7/8 φ			0	4				M	
30			37	HW	1 3/4 φ	15/16 φ	3/16							
31														
32		SD	1	WD			3/16	0	8					
33														
34		FWL	1	WD			5/16	392	7					
35		FWS	1	WD			5/16	34	8					
36		FW	1	WD			1/2	1	2					
37		SDS	1	WD			7/16	4	6					
38		V60S	1	WD			3/4	2	8					
39														
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
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51														
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n			
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INST.-11W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G11-1	GIRDER (25 1/2 × 60 × 100'-4)	

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S. S. Nishimura [illegible] 18 1969

PAY ITEM - 504.711

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES = NP 3

NO TACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE E7016, 18, 28 LOW HYDROGEN ELECTRODES OR [illegible] SAW-2 FOR WELDING.

MIN. [illegible] AT POINT OF [illegible] - [illegible]	[illegible]
TO [illegible] INCL. OVER [illegible] TO 1 1/2" OVER 1 1/2" TO 2 1/2" OVER 2 1/2"	[illegible]

MATERIAL A36 STEEL
[illegible] BOLTS 7/8 φ A325
OPEN HOLES 15/16 φ
A325 FIELD BOLTS 7/8 φ
SHOP CONTACT SURFACES NO PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-
TYPE II RED LEAD (UN)
REAM - AS NOTED

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

REVISION

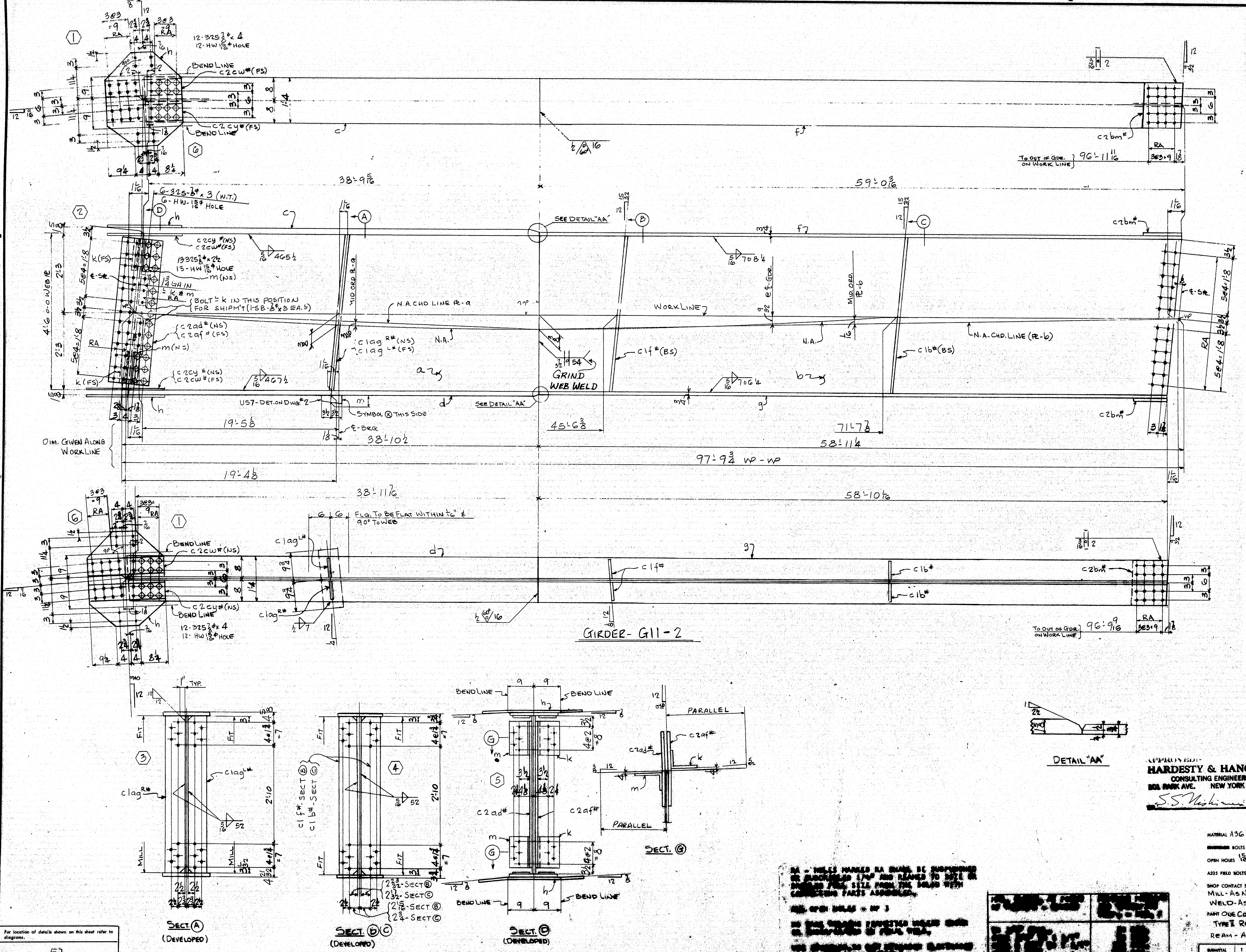
GIRDER

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT NO I-95-1([illegible])[illegible]
CONT. NO. 3 - NEW HAMPSHIRE [illegible]
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN
MADE BY CWG DATE 8-18-69 IN CHARGE D.K. [illegible]
CHECKED BY RJ DATE 9/15/69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 217

For location of details shown on this sheet refer to diagrams.

E7

107-18



APPROVED:
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S.S. Nishimura NOV 18 1969

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

[illegible]

LINE	ASSEMBLY MARK		NO	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1		ONE GIRDER G11-2												
2		a	1	PL	54		1/2	38	11 7/16	56 x 1/2	39	6 1/2	2	74
3		b	1	PL	54		7/16	59	0 3/16	56 1/2 x 7/16	59	7 1/4	2	71
4		c	1	PLU	16		1 5/8	38	9 9/16		39	2	3	71
5		d	1	PLU	16		1 5/8	38	11 1/16		39	2	3	71
6		f	1	PLU	16		3/4	59	0 3/8		59	4	4	71
7		g	1	PLU	16		3/4	58	10 1/4		59	4	4	71
8		h	2	PL	25 1/2		1/2	2	7 1/2	(BENT)	22	4	24	45
9		k	2	L	7	3 1/4	1/2	0	11	(BENT) C.F. 7 x 4 x 1/2	40	0	36	39
10		m	2	L	7	3 1/4	1/2	0	11	(BENT) C.F. 7 x 4 x 1/2	40	0	36	39
11														
12														
13	c	1ag#	1	BR	7 1/2		3/4	4	6 1/32	(M1E)(F1E)	18	4	24	49
14	c	1b#	2	BR	7		1/2	4	6	(F2E)	18	4	24	51
15	c	1f#	2	BR	7		1/2	4	6	(F2E)	18	4	24	51
16	c	2cw#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
17	c	2cy#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
18	c	2ad#	1	PLU	13		3/8	4	2	(BENT)	21	1	24	48
19	c	2af#	1	PLU	13		3/8	4	2	(BENT)	21	1	24	48
20	c	2bm#	2	PL	16		1/2	1	0 7/8		20	2	24	46
21														
22														
23														
24														
25														
26		US7	1	UPPER SHOE						DET. ON DWG. #2				
27			2	SB	7/8 φ			0	3					
28			13	325	7/8 φ			0	2 1/2					
29			24	325	7/8 φ			0	4				M	
30			37	HW	1 3/4 φ	15/16 φ	3/16							
31			6	325	7/8 φ			0	3					
32		SD	1	WD			3/16	0	8					
33														
34		FWL	1	WD			1/16	391	4					
35		FWS	1	WD			5/16	52	0					
36		FW	1	WD			1/2	1	2					
37		SDS	1	WD			7/16	4	6					
38		V60S	1	WD			3/4	2	8					

INST.-11W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G11-2	GIRDER (31 1/2 x 60 x 99'-1 1/4)	

PAY ITEM - 504.711

MATERIAL A36 STEEL
BOLTS 7/8φ A325
OPEN HOLES 15/16φ
A325 FIELD BOLTS 7/8φ
SHOP CONTACT SURFACES No PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)
REAM - AS NOTED

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

NO.	DATE	INIT.
0		
9		
8		
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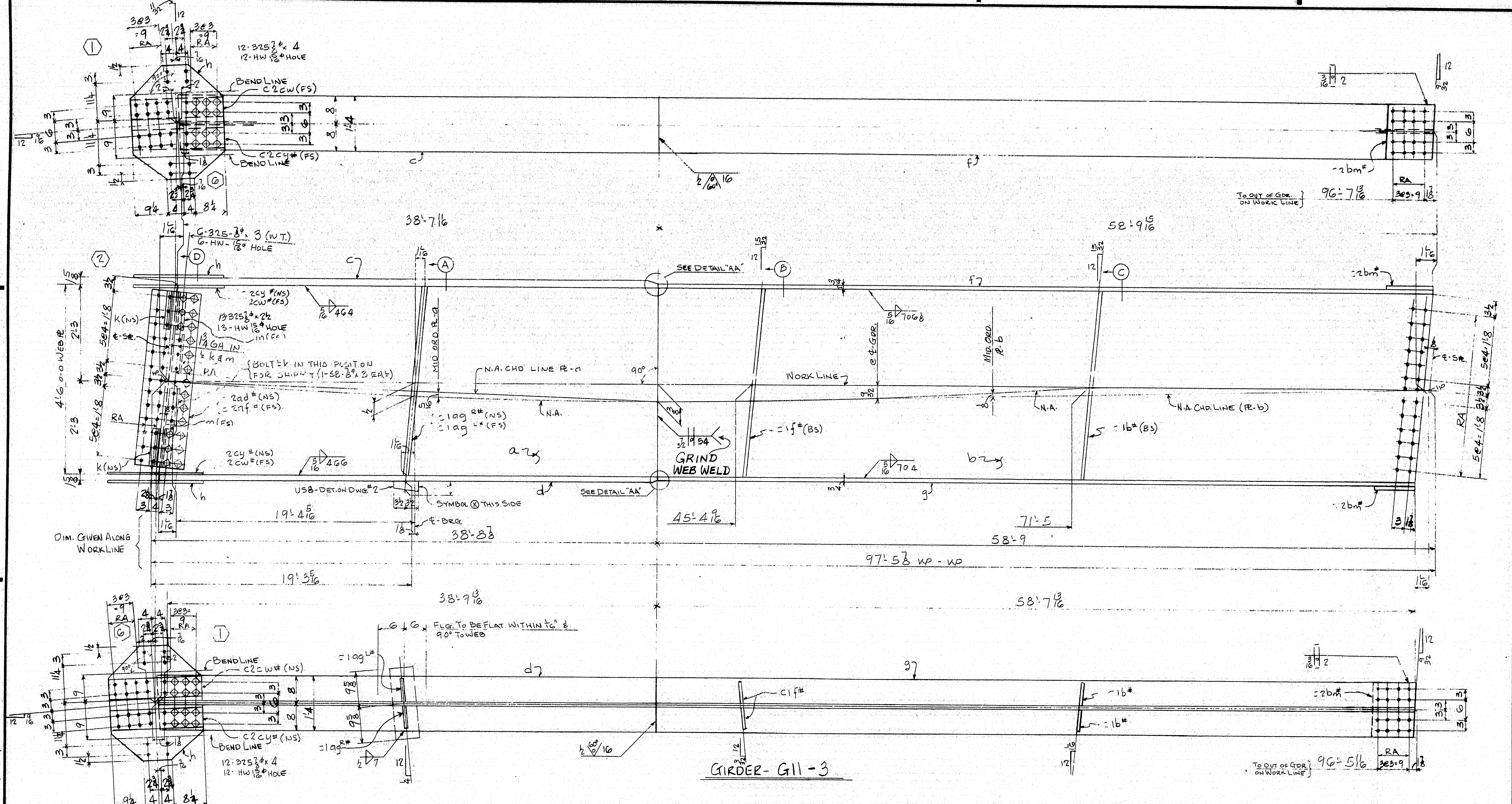
6		
5		
4		
3		
2		
1		
REVISION		

GIRDER

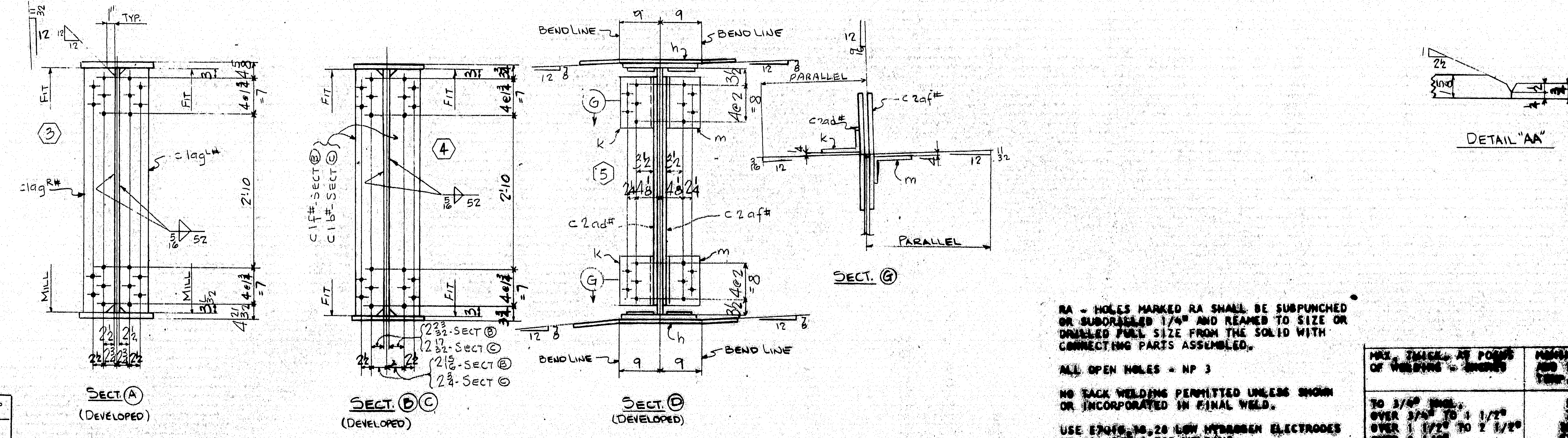
CUSTOMER
MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. No I-95-1(22)16
CONT. No. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY CWG DATE 8-19-69 IN CHARGE D.K. BERTOLET
CHECKED BY RJ DATE 9/15/69 SHOP NO. 2
CONTRACT CJ-6749-020 DRAWING NO. 218

For location of details shown on this sheet refer to diagrams.
E7

107-19



GIRDER- G11-3



RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - NP 3

NO TACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE E7016, 18, 28 LOW HYDROGEN ELECTRODES OR GR. SAW-2 FOR WELDING.

MAX. THICK. AT POINT OF WELDING - INCHES	MINIMUM PREHEAT AND INTERPASS TEMP. - DEG. F
TO 3/4" INCL.	50 DEG.
OVER 3/4" TO 1 1/2"	70 DEG.
OVER 1 1/2" TO 2 1/2"	150 DEG.
OVER 2 1/2"	225 DEG.

For location of details shown on this sheet refer to diagrams.

E7

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1		ONE GIRDER - G11 - 3												
2		a	1	PL	54		1/2	38	9 13/16	56 x 1/2	39	6 1/2	2	74
3		b	1	PL	54		7/16	58	9 15/16	56 1/2 x 7/16	59	7 1/4	2	71
4		c	1	PLU	16		1 5/8	38	7 15/16		39	2	3	71
5		d	1	PLU	16		1 5/8	38	10 7/16		39	2	3	71
6		f	1	PLU	16		3/4	58	10 3/8		59	4	4	71
7		g	1	PLU	16		3/4	58	8		59	4	4	71
8		h	2	PL	25 1/2		1/2	2	7 1/2	(BENT)	22	4	24	45
9		k	2	L	7	3 1/4	1/2	0	11	(BENT) C.F. 7 x 4 x 1/2	40	0	36	39
10		m	2	L	7	3 1/4	1/2	0	11	(BENT) C.F. 7 x 4 x 1/2	40	0	36	39
11														
12														
13	C	1ag^L#	~~1~~ 1	BR	7 1/2		3/4	4	6 1/32	(MIE)(FIE)	18	4	24	49
14	C	1b#	2	BR	7		1/2	4	6	(F2E)	18	4	24	51
15	C	1f#	2	BR	7		1/2	4	6	(F2E)	18	4	24	51
16	C	2cw#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
17	C	2cy#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
18	C	2ad#	1	PLU	13		3/8	4	2	(BENT)	21	1	24	48
19	C	2af#	1	PLU	13		3/8	4	2	(BENT)	21	1	24	48
20	C	2bm#	2	PL	16		1/2	1	0 7/8		20	2	24	46
21														
22														
23														
24														
25														
26		USB	1	UPPER SHOE						DET. ON DWG. #2				
27			2	SB	7/8 ϕ			0	3					
28			15	325	7/8 ϕ			0	2 1/2					
29			24	325	7/8 ϕ			0	4		M			
30			43	HW	1 3/4 ϕ	15/16 ϕ	3/16							
31			6	325	7/8 ϕ			0	3					
32		SD	1	WD			3/16	0	8					
33														
34		FWL	1	WD			5/16	390	0 1/4					
35		FWS	1	WD			5/16	52	0					
36		FW	1	WD			1/2	1	2					
37		SDS	1	WD			7/16	4	6					
38		V60S	1	WD			3/4	2	8					
39														
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

INST.-11W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS -
ONE	G11-3	GIRDER (31 1/2 x 60 x 98'-7 1/4)	

APPROVED:
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S.S. [illegible] NOV 18 1969

PAY ITEM - 504.711

MATERIAL A36 STEEL
[redacted] BOLTS 7/8 ϕ A325
OPEN HOLES 15/16 ϕ
A325 FIELD BOLTS 7/8 ϕ
SHOP CONTACT SURFACES NO PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)
REAM - AS NOTED

REVISION NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

GIRDER

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
[redacted] PROJECT. No I-95-1(22)16
CONT. No. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL

BETHLEHEM STEEL CORPORATION

FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY CWG DATE 8-20-69 IN CHARGE B.K. BERTOLET
CHECKED BY P.J. DATE 9/15/69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 219

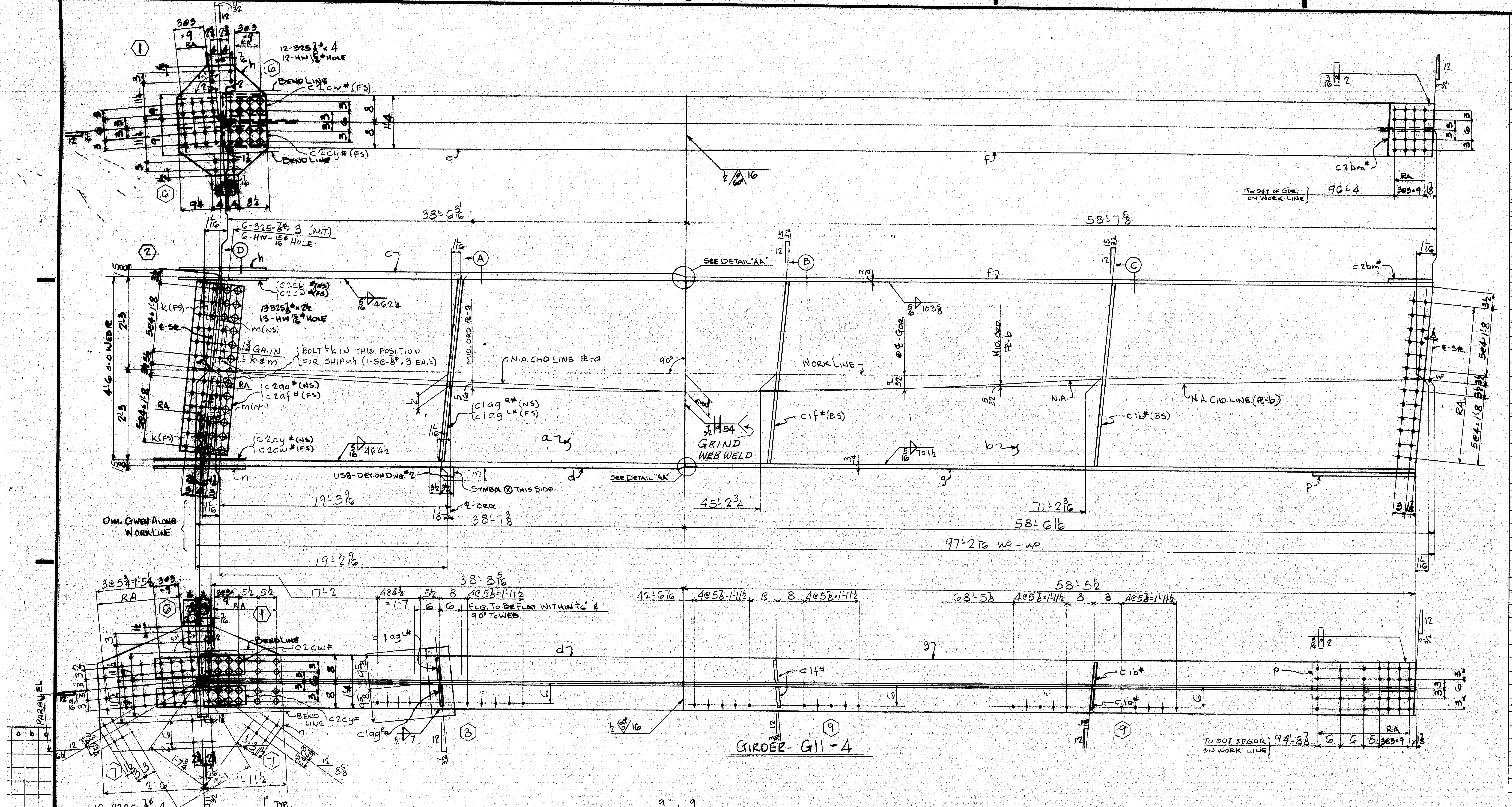
35453 (Rev. C 4-65)

1

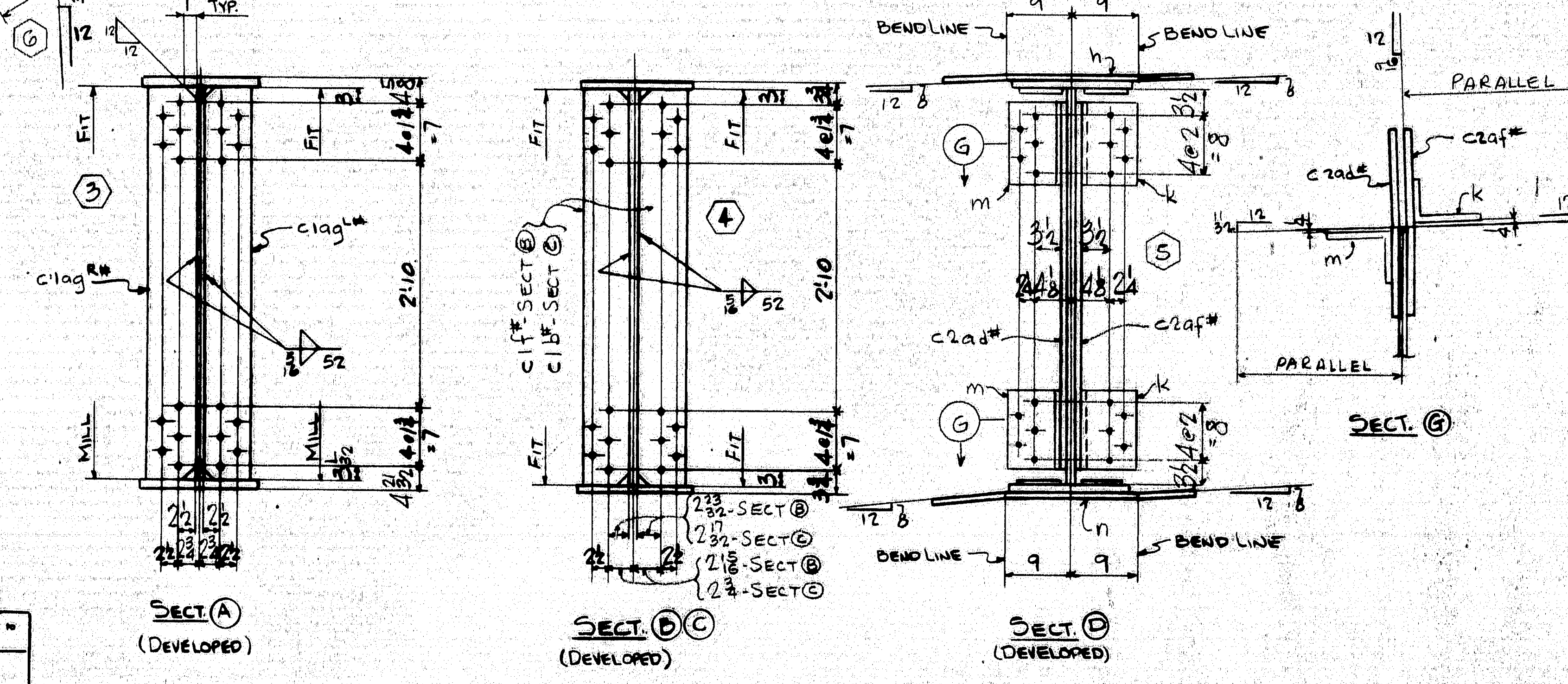
107-20

OCT 14 [illegible]

0 1 2 3 4 5 INCHES



GIRDER- G11-4

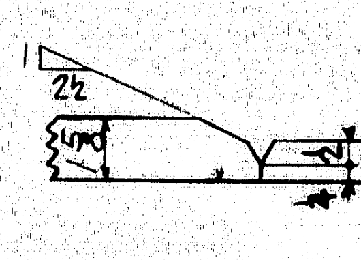


SECT. A (DEVELOPED)

SECT. B C (DEVELOPED)

SECT. D (DEVELOPED)

SECT. G



DETAIL "AA"

LINE	ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	MILL ORDER PAGE	MILL ORDER LINE
1	ONE-GIRDER-G11-4												
2	a	1	PL	54		1/2	38	8 5/16	56 x 1/2	39	6 1/2	2	74
3	b	1	PL	54		7/16	58	7 5/8	56 1/2 x 7/16	59	7 1/4	2	71
4	c	1	PLU	16		1 5/8	38	6 7/16		39	2	3	71
5	d	1	PLU	16		1 5/8	38	8 9/16		39	2	3	71
6	f	1	PLU	16		3/4	58	7 13/32		59	4	4	71
7	g	1	PLU	16		3/4	58	5 11/16		59	4	4	71
8	h	1	PL	25 1/2		1/2	2	7 1/2	(BENT)	22	4	24	45
9	k	2	L	7	3 1/4	1/2	0	11	(BENT) C.F. 7 x 4 x 1/2	40	0	36	39
10	m	2	L	7	3 1/4	1/2	0	11	(BENT) C.F. 7 x 4 x 1/2	40	0	36	39
11	n	1	PL	35		5/8	4	5 1/2	(BENT) 36 x 5/8 MULTS	4	6	28	18
12	p	1	PL	16		1/2	2	5 9/16		20	2	24	46
13													
14	C 1ag R/L #	1/1	BR	7 1/2		3/4	4	6 1/32	(M1E)(F1E)	18	4	24	49
15	C 1b#	2	BR	7		1/2	4	6	(F2E)	18	4	24	51
16	C 1f#	2	BR	7		1/2	4	6	(F2E)	18	4	24	51
17	C 2ad#	1	PLU	13		3/8	4	2	(BENT)	21	1	24	48
18	C 2af#	1	PLU	13		3/8	4	2	(BENT)	21	1	24	48
19	C 2cw#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
20	C 2cy#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
21	C 2bm#	1	PL	16		1/2	1	0 7/8		20	2	24	46
22													
23													
24													
25		6	325	7/8φ			0	3				M	
26	US8	1	UPPER SHOE						DET. ON DWG. #2				
27		8	325	7/8φ			0	3 1/2					
28		13	325	7/8φ			0	2 1/2				M	
29		24	325	7/8φ			0	4					
30		51	HW	1 3/4φ	15/16φ	3/16							
31		2	SB	7/8φ			0	3					
32	SD	1	WD			3/16	0	8					
33													
34	FWL	1	WD			5/16	388	8 1/4					
35	FWS	1	WD			5/16	52	0					
36	FW	1	WD			1/2	1	2					
37	SDS	1	WD			7/16	4	6					
38	V60S	1	WD			3/4	2	8					
39													
40													
41													
42													
43													
44													
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46													
47													
48													
49													
50													
51													
52													
53													
54													
55													

INST.-11W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G11-4	GIRDER (31 1/2 x 60 x 99' 10)	

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S. S. Nishimura NOV 18 1969

PAY ITEM - 504.711

NOV 18 1969

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - NP 3

NO BACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE E70XX-16,-28 LOW HYDROGEN ELECTRODES OR GR. SAW-2 FOR WELDING.

MAX. THICK. AT POINT OF WELDING - INCHES	MINIMUM PREHEAT AND INTERPASS TEMP. - DEG. F
TO 3/4" INCL.	50 DEG.
OVER 3/4" TO 1 1/2"	70 DEG.
OVER 1 1/2" TO 2 1/2"	150 DEG.
OVER 2 1/2"	225 DEG.

MATERIAL A36 STEEL
BOLTS 7/8φ A325
OPEN HOLES 15/16φ
A325 FIELD BOLTS 7/8φ
SHOP CONTACT SURFACES No PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)
REAM - AS NOTED

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

REVISION: NO. | DATE | INIT.

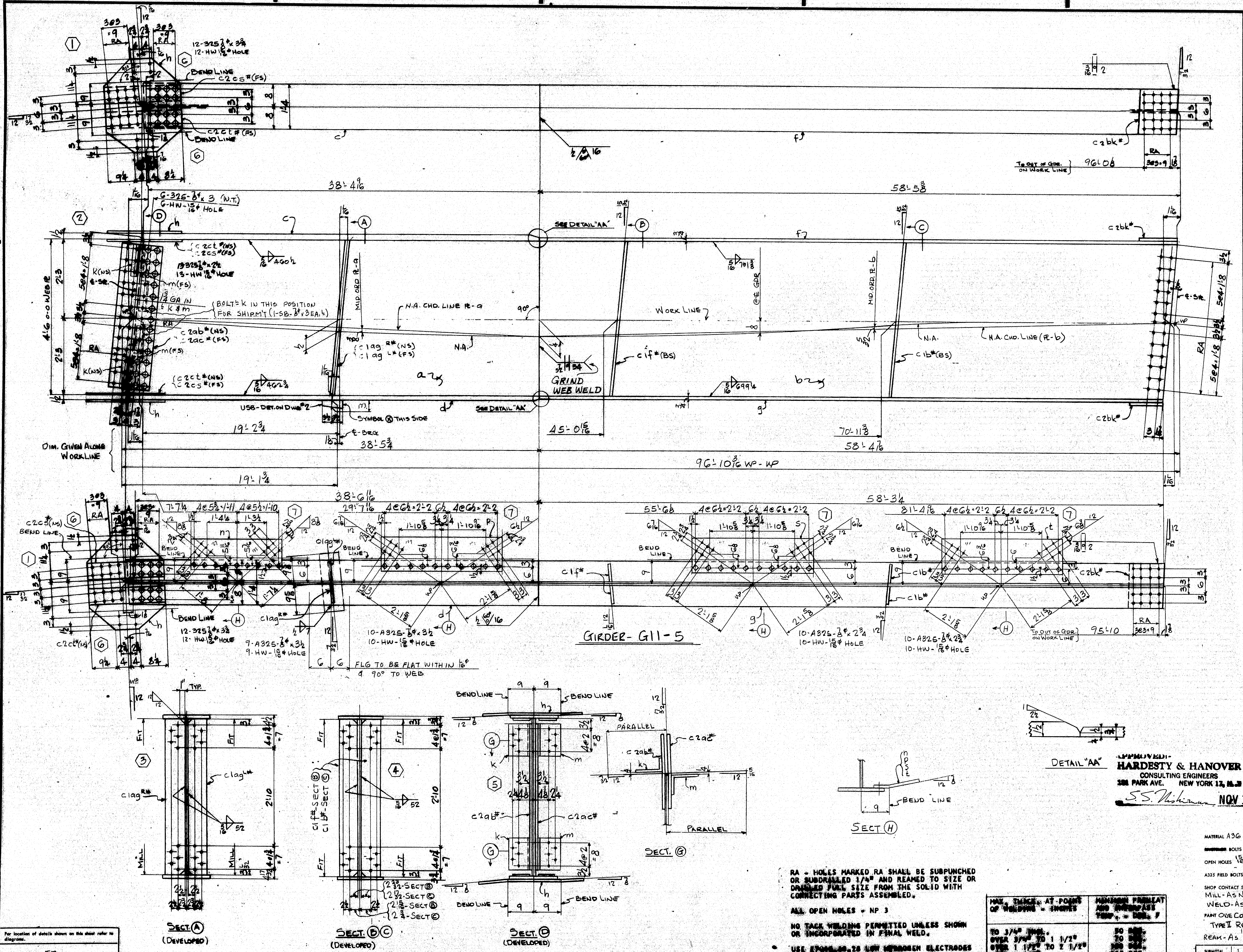
GIRDER

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. No I-95-1(22)16
CONT. No. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY EWG DATE 8-22-69 IN CHARGE B.K. BERTOLET
CHECKED BY RJ DATE 9/15/69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 220

For location of details shown on this sheet, refer to diagram.
E7

187-21

1 2 3 4 5 INCHES



LINE	ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1	ONE-GIRDER-G11-5												
2	a	1	PL	54		½	38	6 1/16	56 x ½	39	6½	2	74
3	b	1	PL	54		7/16	58	5 3/8	56½ x 7/16	58	10	2	72
4	c	1	PLU	16		1½	38	4 3/4		39	2¼	3	72
5	d	1	PLU	16		1½	38	6 7/8		39	2¼	3	72
6	f	1	PLU	16		3/4	58	5 9/16		58	6½	4	72
7	g	1	PLU	16		3/4	58	3 7/16		58	6½	4	72
8	h	2	PL	25½		½	2	7½	(BENT)	22	4	24	45
9	k	2	L	7	3½	½	0	11	(BENT) C.F. 7 x 4 x ½	40	0	36	39
10	m	2	L	7	3½	½	0	11	(BENT) C.F. 7 x 4 x ½	40	0	36	39
11	n	1	PL	14½		5/8	4	0	(BENT)	26	0	28	19
12	p	1	PL	14½		5/8	5	1½	(BENT)	26	0	28	19
13	s	1	PL	14½		5/8	5	1½	(BENT)	26	0	28	19
14	t	1	PL	14½		5/8	5	1½	(BENT)	26	0	28	19
15													
16	C 1ag R/L #	1	BR	7½		3/4	4	6 1/32	(M1E)(F1E)	18	4	24	49
17	C 1b#	2	BR	7		½	4	6	(F2E)	18	4	24	51
18	C 1f#	2	BR	7		½	4	6	(F2E)	18	4	24	51
19	C 2cs#	2	BR	6½		½	2	1½		19	0	24	50
20	C 2ct#	2	BR	6½		½	2	1½		19	0	24	50
21	C 2ab#	1	PLU	13		3/8	4	2	(BENT)	21	1	24	48
22	C 2ac#	1	PLU	13		3/8	4	2	(BENT)	21	1	24	48
23	C 2bk	2	PL	16		3/8	1	0 7/8				J	
24													
25		2	SB	7/8 φ			0	3				M	
26	US8	1	UPPER SHOE						DET. ON DWG. #2				
27		20	325	7/8 φ			0	2 3/4					
28		13	325	7/8 φ			0	2½					
29		19	325	7/8 φ			0	3½				M	
30		24	325	7/8 φ			0	3 3/4					
31		82	HW	1 3/4 φ	15/16 φ	3/16							
32		6	325	7/8 φ			0	3					
33	SD	1	WD			3/16	0	8					
34	FWL	1	WD			5/16	387	3 3/4					
35	FWS	1	WD			5/16	52	0					
36	FW	1	WD			½	1	2					
37	SDS	1	WD			7/16	4	6					
38	V60S	1	WD			3/4	2	8					
39													
40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													

INST.-11W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G11-5	GIRDER (31½ x 60 x 98'-1)	

PAY ITEM - 504.711

APPROVED:
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S.S. Nishimura NOV 18 1969

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - NP 3

NO TACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE E70[illegible]-28 LOW HYDROGEN ELECTRODES OR GR. [illegible]-2 FOR WELDING.

MAX. THICK. AT POINT OF WELDING - INCHES	MINIMUM PREHEAT AND INTERPASS TEMP. - DEG. F
TO 3/4" INCL.	50 DEG.
OVER 3/4" TO 1 1/2"	70 DEG.
OVER 1 1/2" TO 2 1/2"	150 DEG.
OVER 2 1/2"	225 DEG.

MATERIAL A36 STEEL
[illegible] BOLTS 7/8φ A325
OPEN HOLES 15/16φ
A325 FIELD BOLTS 7/8φ
SHOP CONTACT SURFACES No Paint
MILL - As Noted
WELD - As Noted
PAINT One Coat AASHO-M72-Type II Red Lead (UN)
REAM - As Noted

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

NO.	DATE	INIT.
0		
9		
8		
7		
6		
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4		
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2		
1		
REVISION		

GIRDER

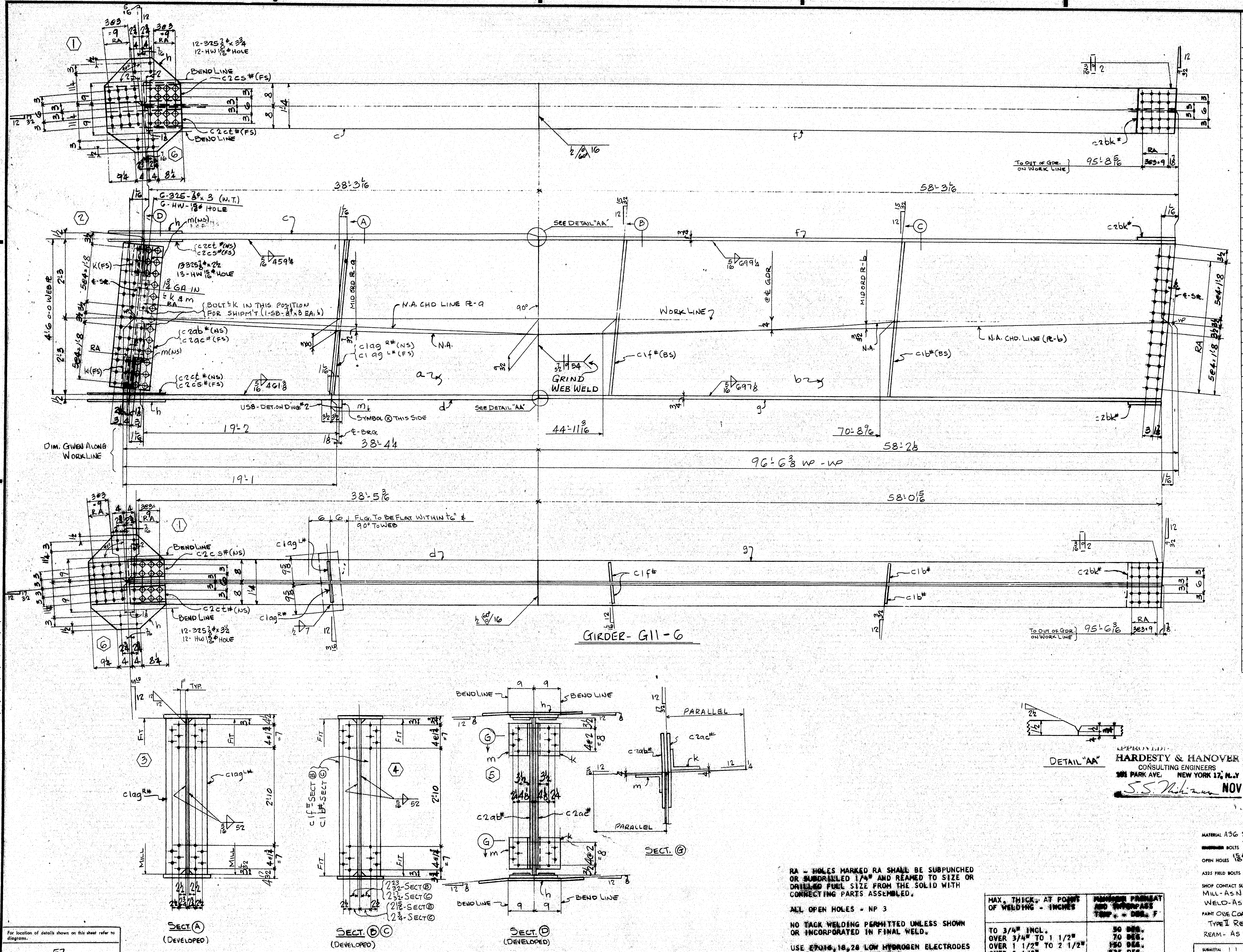
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. No I-95-1(22)16
CONT. No. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY CWG DATE 8-25-69 IN CHARGE B.K. BERTOLET
CHECKED BY RJ DATE 9/15/69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 221

For location of details shown on this sheet refer to diagrams.
E7

35453 (Rev. C 4-65)

107-22

OCT 14



GIRDER- G11-6

SECT. Ⓐ (DEVELOPED)

SECT. Ⓑ Ⓒ (DEVELOPED)

SECT. Ⓓ (DEVELOPED)

SECT. Ⓖ

DETAIL "AA"

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1		ONE- GIRDER - G11 - 6												
2		a	1	PL	54		1/2	38	5 3/16	56 x 1/2	39	6 1/2	2	74
3		b	1	PL	54		7/16	58	3 7/16	56 1/2 x 7/16	58	10	2	72
4		c	1	PLU	16		1 1/2	38	3 1/4		39	2 1/4	3	72
5		d	1	PLU	16		1 1/2	38	5 3/8		39	2 1/4	3	72
6		f	1	PLU	16		3/4	58	3 1/4		58	6 1/2	4	72
7		g	1	PLU	16		3/4	58	1 1/8		58	6 1/2	4	72
8		h	2	PL	25 1/2		1/2	2	7 1/2	(BENT)	22	4	24	45
9		k	2	L	7	3 1/4	1/2	0	11	(BENT) C.F. 7 x 4 x 1/2	40	0	36	39
10		m	2	L	7	3 1/4	1/2	0	11	(BENT) C.F. 7 x 4 x 1/2	40	0	36	39
11														
12														
13	C	1ag R/L #	1/1	BR	7 1/2		3/4	4	6 1/32	(MIE)(FIE)	18	4	24	49
14	C	1b#	2	BR	7		1/2	4	6	(F2E)	18	4	24	51
15	C	1f#	2	BR	7		1/2	4	6	(F2E)	18	4	24	51
16	C	2cs#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
17	C	2ct#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
18	C	2ab#	1	PLU	13		3/8	4	2	(BENT)	21	1	24	48
19	C	2ac#	1	PLU	13		3/8	4	2	(BENT)	21	1	24	48
20	C	2bk#	2	PL	16		3/8	1	0 7/8				J	
21														
22														
23														
24														
25														
26		US8	1	UPPER SHOE						DET. ON DWG. #2				
27			6	325	7/8 ϕ			0	3					
28			13	325	7/8 ϕ			0	2 1/2					
29			24	325	7/8 ϕ			0	3 3/4				M	
30			43	HW	1 3/4 ϕ	15/16 ϕ	3/16							
31			2	SB	7/8 ϕ			0	3					
32		SD	1	WD			3/16	0	8					
33														
34		FWL	1	WD			5/16	386	2					
35		FWS	1	WD			5/16	52	0					
36		FW	1	WD			1/2	1	2					
37		SDS	1	WD			7/16	4	6					
38		V60S	1	WD			3/4	2	8					
39														
40														
41														
42														
43														
44														
45														
46														
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49														
50														
51														
52														
53														
54														
55														

INST.-11W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G11-6	GIRDER (31 1/2 x 60 x 97'-9)	

APPROVED:
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S. S. NOV 18 1969

PAY ITEM - 504.711

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - NP 3

NO TACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE E7016, 18, 28 LOW HYDROGEN ELECTRODES OR GR. SAW-2 FOR WELDING.

MAX. THICK. AT POINT OF WELDING - INCHES	MINIMUM PREHEAT AND INTERPASS TEMP. - DEG. F
TO 3/4" INCL.	50 DEG.
OVER 3/4" TO 1 1/2"	70 DEG.
OVER 1 1/2" TO 2 1/2"	150 DEG.
OVER 2 1/2"	225 DEG.

MATERIAL A36 STEEL
~~SHOP~~ BOLTS 7/8 ϕ A325
OPEN HOLES 15/16 ϕ
A325 FIELD BOLTS 7/8 ϕ
SHOP CONTACT SURFACES NO PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)
REAM - AS NOTED

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

REVISION NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

GIRDER

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. NO I-95-1(22)16
CONT. NO. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY CWG DATE 8-20-69 IN CHARGE B.K. BERTOLET
CHECKED BY RJ DATE 9/15/69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 222

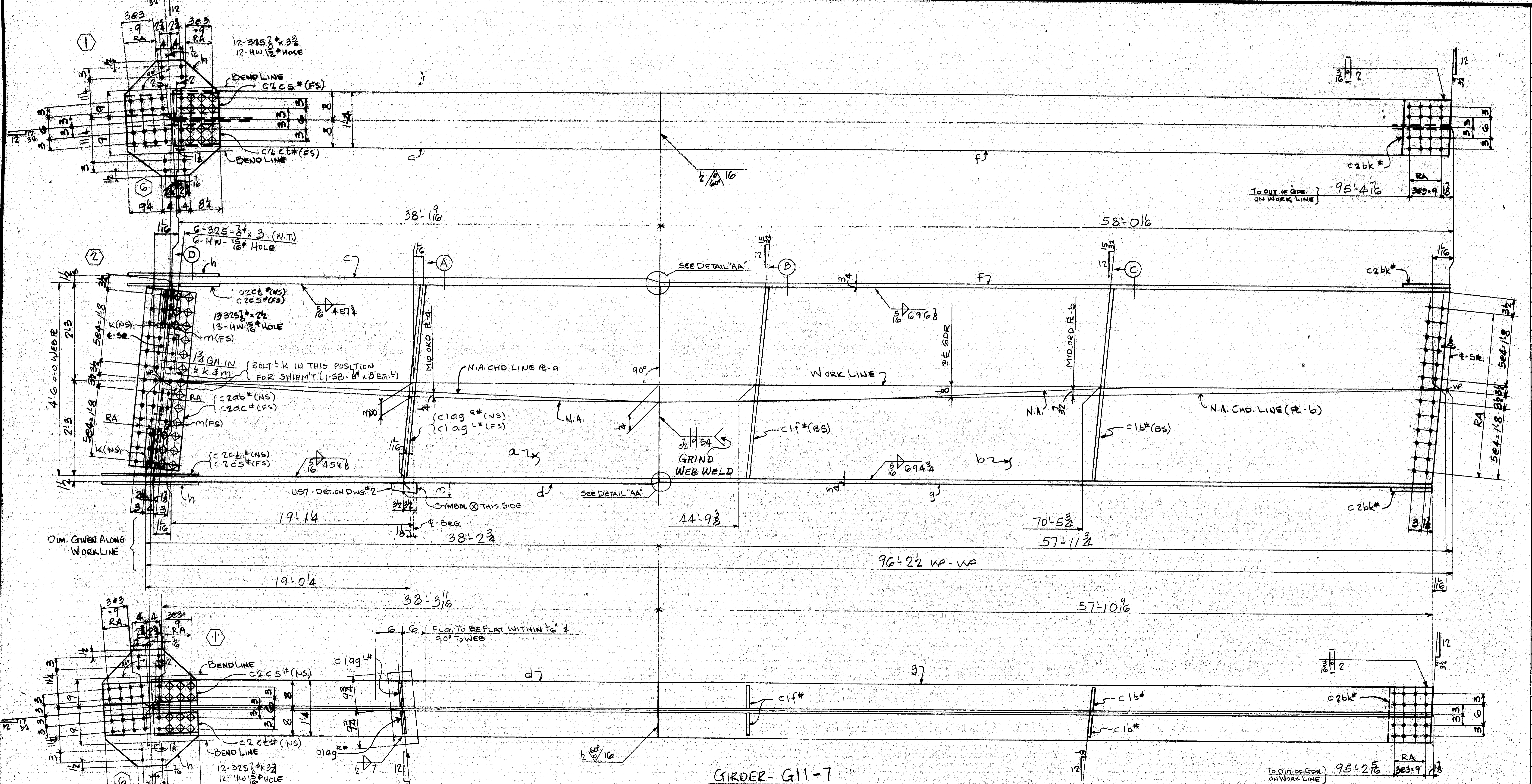
For location of details shown on this sheet refer to diagrams.
E7

a	b	c

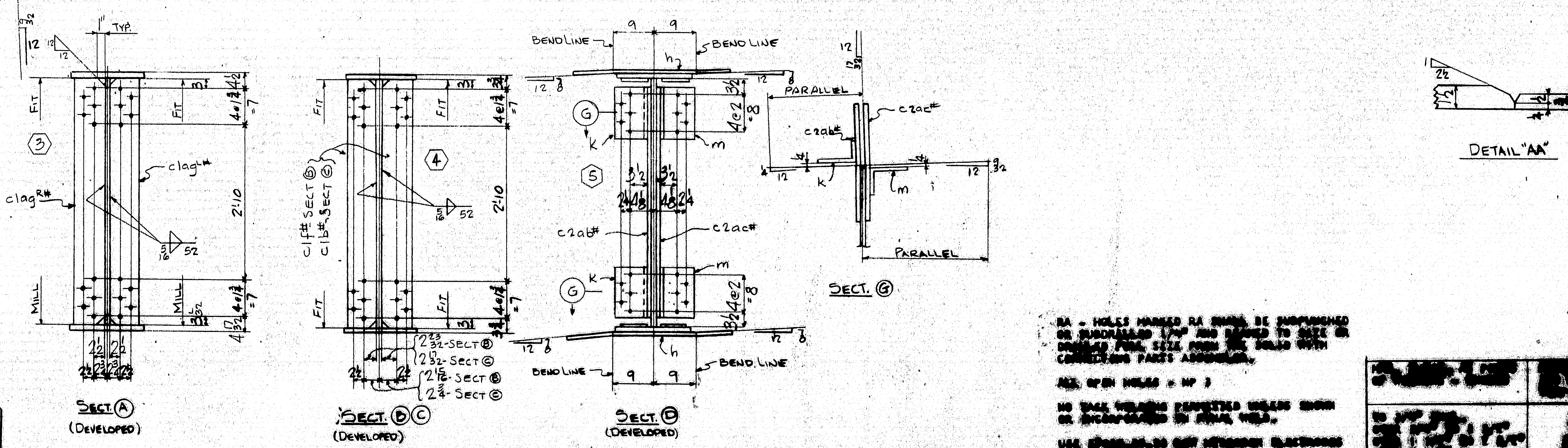
107-23

33453 (Rev.C 4-65)

OCT 14



GIRDER- G11-7



SECT Ⓐ (DEVELOPED)

SECT. Ⓓ Ⓒ (DEVELOPED)

SECT. Ⓑ (DEVELOPED)

SECT. Ⓖ

DETAIL "AA"

SHOP BILL

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1		ONE-GIRDER-G11-7												
2		a	1	PL	54		1/2	38	3 1/16	56 x 1/2	39	6 1/2	2	74
3		b	1	PL	54		7/16	58	0 1/16	56 1/2 x 7/16	58	10	2	72
4		c	1	PLU	16		1 1/2	38	1 3/4		38	4 3/4	3	73
5		d	1	PLU	16		1 1/2	38	3 7/8		38	4 3/4	3	73
6		f	1	PLU	16		3/4	58	0 3/8		58	6 1/2	4	72
7		g	1	PLU	16		3/4	57	10 3/4		58	6 1/2	4	72
8		h	2	PL	25 1/2		1/2	2	7 1/2	(BENT)	22	4	24	45
9		k	2	L	7	3 1/4	1/2	0	11	(BENT) C.F. 7x4x1/2	40	0	36	39
10		m	2	L	7	3 1/4	1/2	0	11	(BENT) C.F. 7x4x1/2	40	0	36	39
11														
12														
13	C	1ag R# L#	1/1	BR	7 1/2		3/4	4	6 1/32	(M1E)(F1E)	18	4	24	49
14	C	1b#	2	BR	7		1/2	4	6	(F2E)	18	4	24	51
15	C	1f#	2	BR	7		1/2	4	6	(F2E)	18	4	24	51
16	C	2cs#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
17	C	2ct#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
18	C	2ab#	1	PLU	13		3/8	4	2	(BENT)	21	1	24	48
19	C	2ac#	1	PLU	13		3/8	4	2	(BENT)	21	1	24	48
20	C	2bk#	2	PL	16		3/8	1	0 3/8				J	
21														
22														
23														
24														
25														
26		US7	1	UPPER SHOE						DET. ON DWG. #2				
27			6	325	7/8 ϕ			0	3					
28			13	325	7/8 ϕ			0	2 1/2					
29			24	325	7/8 ϕ			0	3 3/4				M	
30			43	HW	1 3/4 ϕ	15/16 ϕ	3/16							
31			2	SB	7/8 ϕ			0	3					
32		SD	1	WD			3/16	0	8					
33														
34		FWL	1	WD			5/16	384	10 1/2					
35		FWS	1	WD			5/16	52	0					
36		FW	1	WD			1/2	1	2					
37		SCS	1	WD			7/16	4	6					
38		VGOS	1	WD			3/4	2	8					
39														
40														
41														
42														
43														
44														
45														
46														
47														
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49														
50														
51														
52														
53														
54														
55														

INST.-11W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G11-7	GIRDER (31 1/2 x 60 x 97'-5 1/4)	

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y
S. S. Nishizawa NOV 18 1969

PAY ITEM - 504.711

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES = NP 3

NO TACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE [illegible] LOW HYDROGEN ELECTRODES OR [illegible] FOR WELDING.

[illegible]

MATERIAL A36 STEEL
[redacted] BOLTS 7/8 ϕ A325
OPEN HOLES 15/16 ϕ
A325 FIELD BOLTS 7/8 ϕ
SHOP CONTACT SURFACES No PAINT
MILL - AS NOTED
WELD - AS NOTED -
PAINT ONE COAT AASHO-M72-TYPE I RED LEAD (UN)
REAM - AS NOTED

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

REVISION

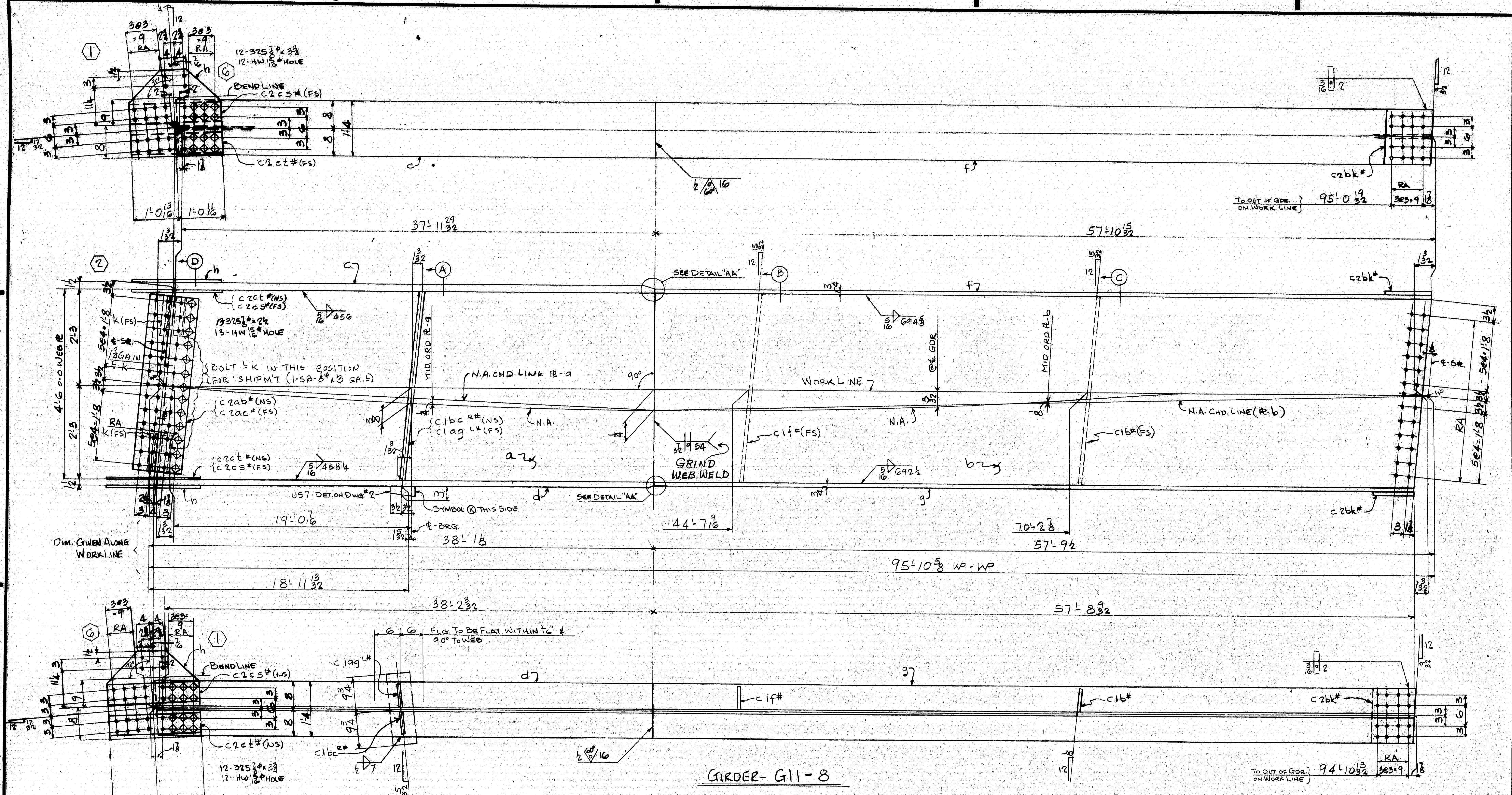
GIRDER

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
[redacted] PROJECT. No I-95-1(22)16
CONT. No. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL

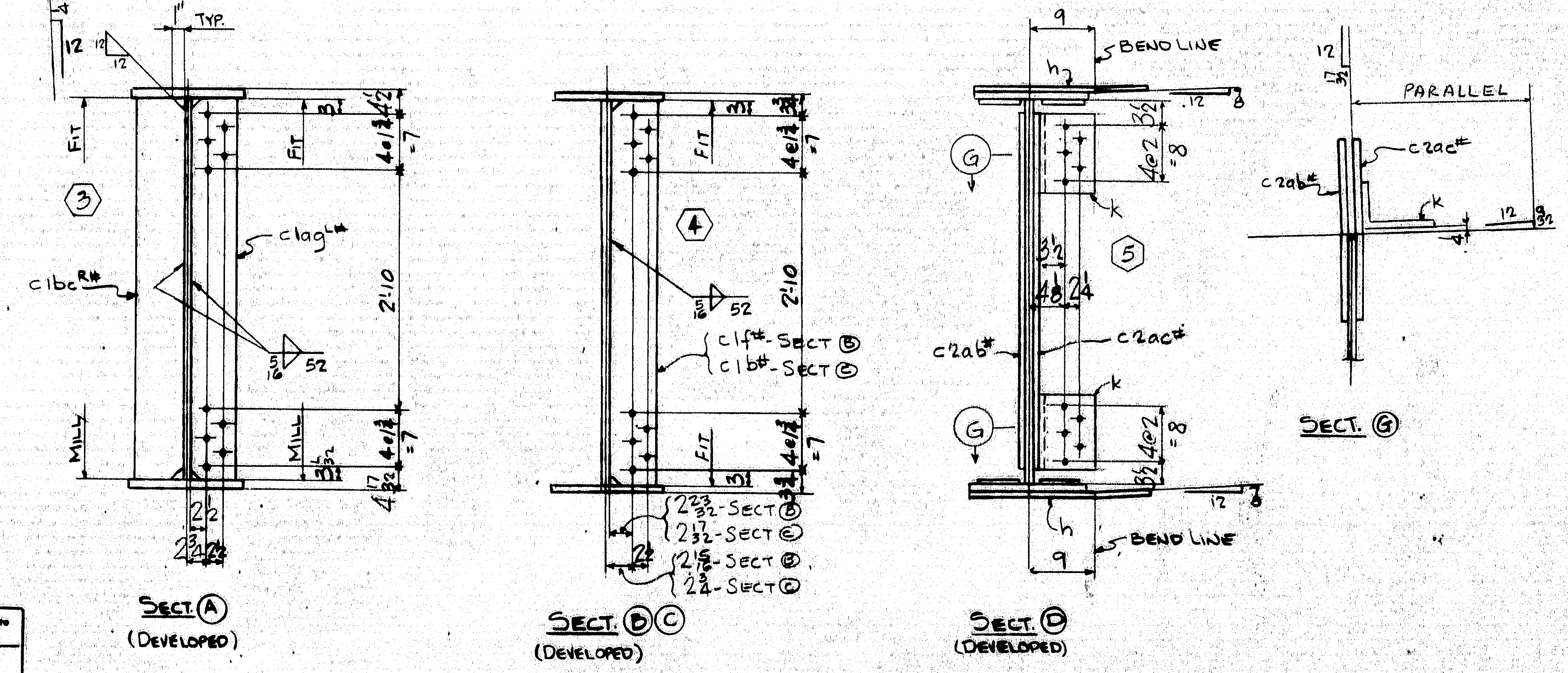
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY CWG DATE 8-21-69 IN CHARGE B. K. BERTOLET
CHECKED BY RJ DATE 9/15/69 SHOP NO. 2
CONTRACT CJ-6241-020 DRAWING NO. 223

For location of details shown on this sheet refer to diagrams.
E7

107-24



GIRDER- G11-8

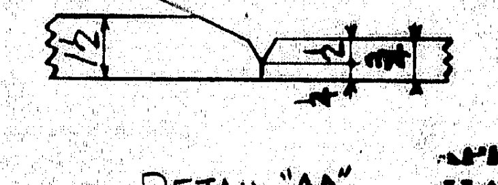


SECT. Ⓐ (DEVELOPED)

SECT. Ⓑ Ⓒ (DEVELOPED)

SECT. Ⓓ (DEVELOPED)

SECT. Ⓖ



DETAIL "AA"

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1		ONE-GIRDER-G11-8												
2		a	1	PL	54		1/2	38	2 3/32	56×1/2	39	6 1/2	2	74
3		b	1	PL	54		7/16	57	10 15/32	56 1/2×7/16	58	10	2	72
4		c	1	PLU	16		1 1/2	38	0 1/16		38	4 3/4	3	73
5		d	1	PLU	16		1 1/2	38	2 1/4		38	4 3/4	3	73
6		f	1	PLU	16		3/4	57	10 21/32		58	6 1/2	4	72
7		g	1	PLU	16		3/4	57	8 15/32		58	6 1/2	4	72
8		h	2	PL	25 1/2		1/2	1	11 3/4	(BENT)	22	4	24	45
9		k	2	L	7	3 1/4	1/2	0	11	(BENT) C.F. 7×4×1/2	40	0	36	39
10														
11														
12	C	1bc R#	1	BR	7 1/2		3/4	4	6 1/32	(MIE)(FIE)	18	4	24	49
13	C	1ag L#	1	BR	7 1/2		3/4	4	6 1/32	(MIE)(FIE)	18	4	24	49
14	C	1b#	1	BR	7		1/2	4	6	(F2E)	18	4	24	51
15	C	1f#	1	BR	7		1/2	4	6	(F2E)	18	4	24	51
16	C	2cs#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
17	C	2ct#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
18	C	2ab#	1	PLW	13		3/8	4	2	(BENT)	21	1	24	48
19	C	2ac#	1	PLW	13		3/8	4	2	(BENT)	21	1	24	48
20	C	2bk#	2	PL	16		3/8	1	0 7/8				J	
21														
22														
23														
24														
25														
26		US7	1	UPPER SHOE						DET. ON DWG. #2				
27														
28			13	325	7/8ϕ			0	2 1/2					
29			24	325	7/8ϕ			0	3 3/4				M	
30			37	HW	1 3/4ϕ	15/16ϕ	3/16							
31			2	SB	7/8ϕ			0	3					
32		SD	1	WD			3/16	0	8					
33														
34		FWL	1	WD			5/16	383	6					
35		FWS	1	WD			5/16	34	8					
36		FW	1	WD			1/2	1	2					
37		SDS	1	WD			7/16	4	6					
38		V60S	1	WD			3/4	2	8					
39														
40														
41														
42														
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55														

INST.-11W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G11-8	GIRDER (25 1/2×60×97'-1 1/2)	

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S. S. Nishimura NOV 18 1969

PAY ITEM - 504.711

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - NP 3

NO TACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE E7016, 18, 28 LOW HYDROGEN ELECTRODES OR GR. SAW-2 FOR WELDING.

MAX. THICK. AT POINT OF WELDING - INCHES	MINIMUM PREHEAT AND INTERPASS TEMP. - DEG. F
TO 3/4" INCL. OVER 3/4" TO 1 1/2" OVER 1 1/2" TO 2 1/2" OVER 2 1/2"	50 DEG. 50 DEG. 150 DEG. 225 DEG.

MATERIAL A36 STEEL
BOLTS 7/8ϕ A325
OPEN HOLES 15/16ϕ
A325 FIELD BOLTS 7/8ϕ
SHOP CONTACT SURFACES NO PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)
REAM - AS NOTED

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

	NO.	DATE	INIT.
	0		
	9		
	8		
	7		
	6		
	5		
	4		
	3		
	2		
	1		

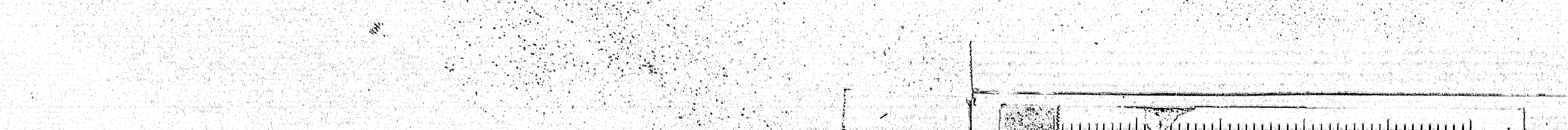
REVISION

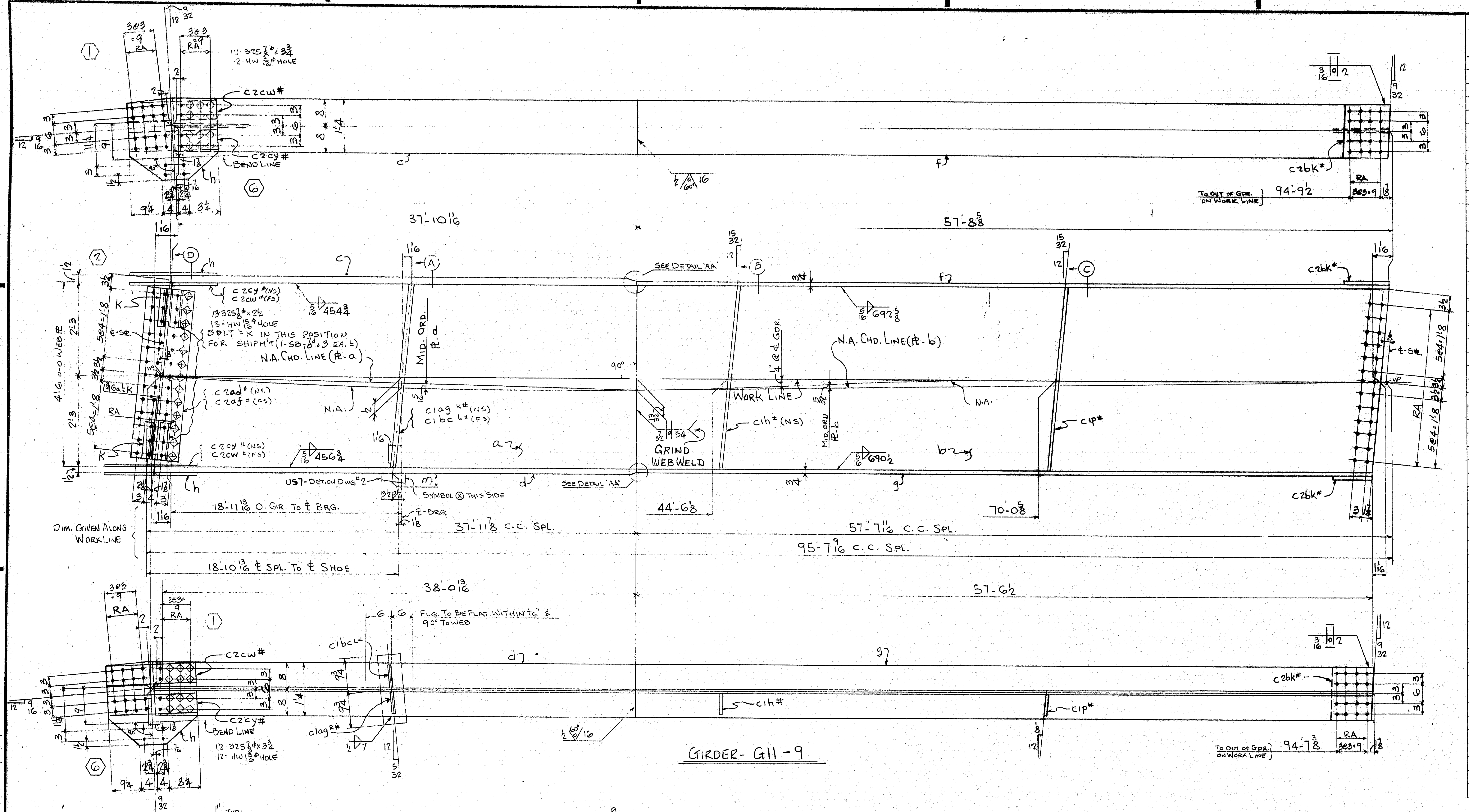
GIRDER

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. NO I-95-1(22)16
CONT. NO. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY CWG DATE 8-21-69 IN CHARGE B.K. BERTOLET
CHECKED BY RJ DATE 9/15/69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 224

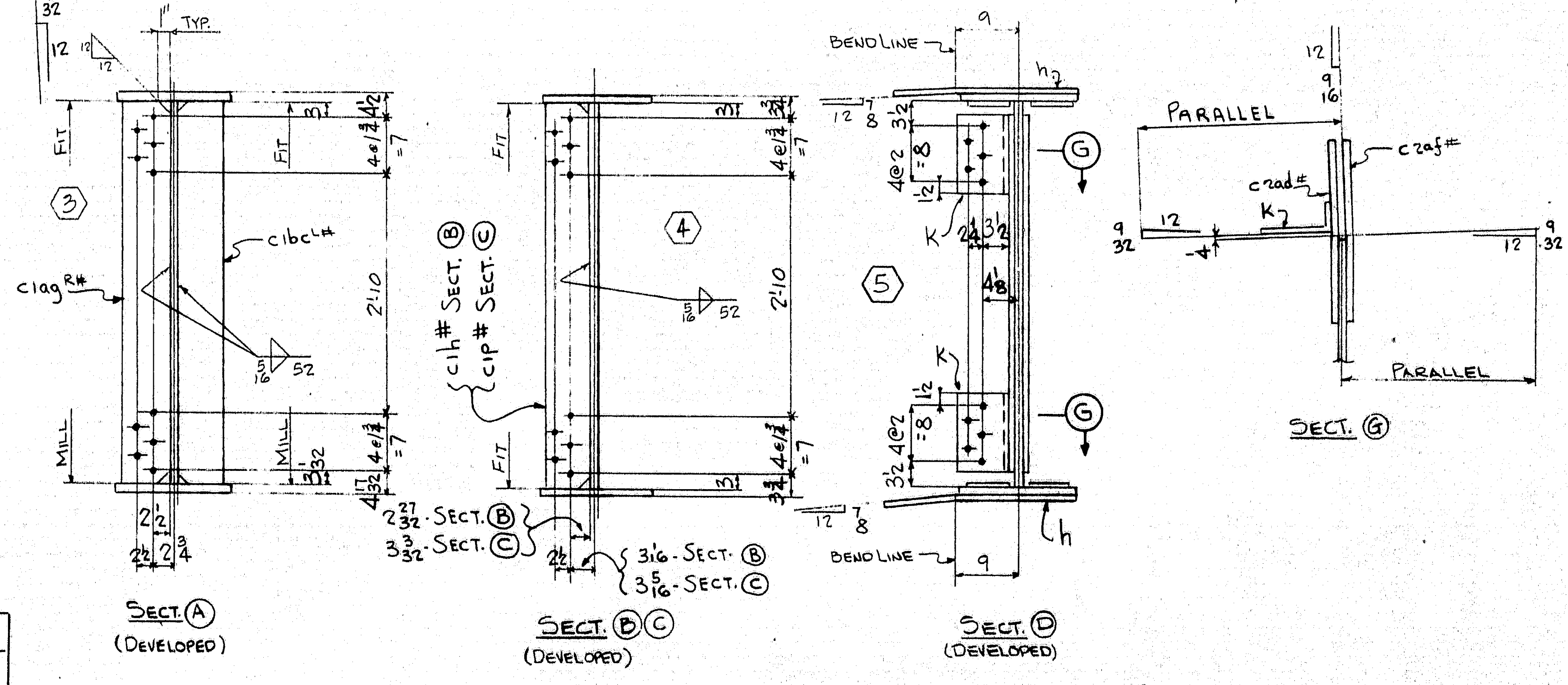
For location of details shown on this sheet refer to diagram: E7

107-25





GIRDER- G11-9

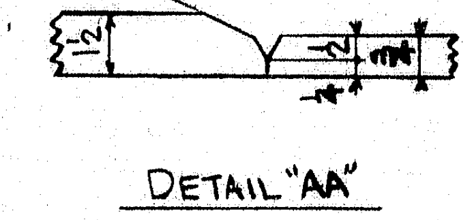


SECT. Ⓐ (DEVELOPED)

SECT. Ⓑ Ⓒ (DEVELOPED)

SECT. Ⓓ (DEVELOPED)

SECT. Ⓖ



DETAIL "AA"

LINE	ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1	ONE- GIRDER- G11 - 9												
2	a	1	PL	54		1/2	38	0 13/16	56x1/2	38	5 1/4	2	75
3	b	1	PL	54		7/16	57	8 5/8	56 1/2x7/16	58	10	2	72
4	c	1	PLU	16		1 1/2	37	10 7/8		38	4 3/4	3	73
5	d	1	PLU	16		1 1/2	38	1		38	4 3/4	3	73
6	f	1	PLU	16		3/4	57	8 13/16		57	9 3/4	4	73
7	g	1	PLU	16		3/4	57	6 11/16		57	9 3/4	4	73
8	h	2	PL	25 1/2		1/2	1	11 3/4	BENT	22	4	24	45
9	c1ag^R#	1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
10	c1bc^L#	1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
11	c1h#	1	BR	7		1/2	4	6	F2E.	18	4	24	51
12	c1p#	1	BR	7		1/2	4	6	F2E	18	4	24	51
13	c2cy#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
14	c2cw#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
15	c2bk#	2	PL	16		3/8	1	0 7/8				J	
16	c2ad#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
17	c2af#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
18													
19	K	2	L	7	3 1/4	1/2	0	11	BENT C.F. 7x4x1/2	40	0	36	39
20													
21													
22													
23													
24													
25													
26	US7	1	UPPER SHOE						DET. ON DWG. #2				
27													
28		13	325	7/8φ			0	2 1/2					
29		24	325	7/8φ			0	3 3/4				M	
30		37	HW	1 3/4	15/16	3/16							
31		2	SB	7/8φ			0	3					
32													
33													
34	FWL	1	WD			5/16	382	8 3/4					
35	FWS	1	WD			5/16	34	8					
36	FW	1	WD			1/2	1	2					
37	SDS	1	WD			7/16	4	6					
38	V605	1	WD			3/4	2	8					
39	SD	1	WD			3/16	0	8					
40													
41													
42													
43													
44													
45													
46													
47													
48													
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50													
51													
52													
53													
54													
55													

INST.-11E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G11-9	GIRDER 25'4x58x96-10	

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S. S. Nishimura NOV 18 1969

PAY ITEM - 504.711

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - NP 3

NO TACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE E7016,18,28 LOW HYDROGEN ELECTRODES OR GR. SAW-2 FOR WELDING.

[illegible]	[illegible]
[illegible]	[illegible]

MATERIAL A36 STEEL
BOLTS 7/8φ
OPEN HOLES 15/16φ
A325 FIELD BOLTS
SHOP CONTACT SURFACES No PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)
REAM - AS NOTED

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

NO.	DATE	INIT.
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REVISION

GIRDER - G11-9

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. No I-95-1(49) [illegible]
CONT. No. 3 - NEW HAMPSHIRE [illegible]
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RHG DATE 8/19/69 IN CHARGE R.K. [illegible]
CHECKED BY RJ DATE 9/15/69 SHOP NO. 2
CONTRACT CJ-6249-070 DRAWING NO. 225

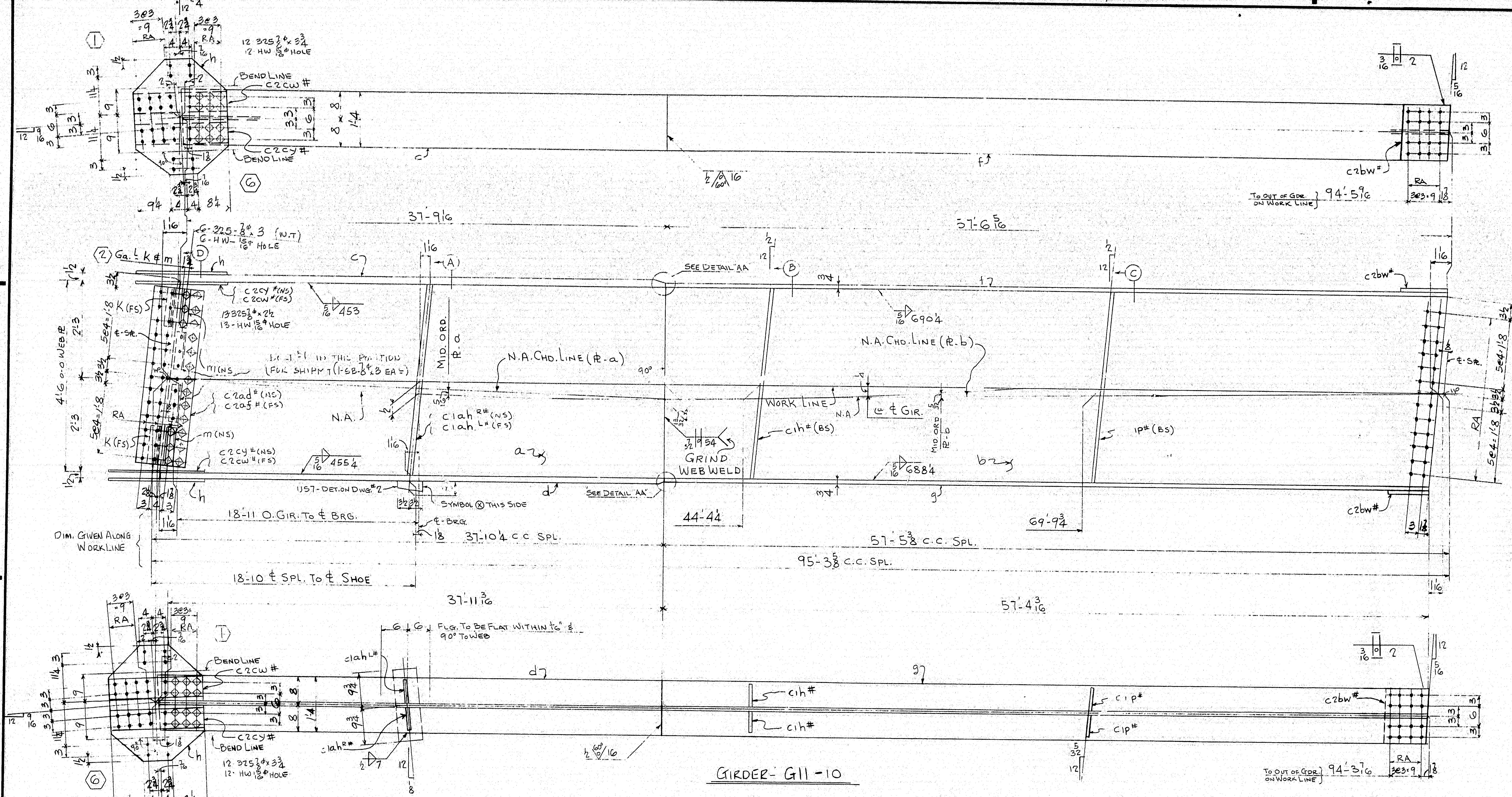
107-26

For location of details shown on this sheet refer to diagrams.

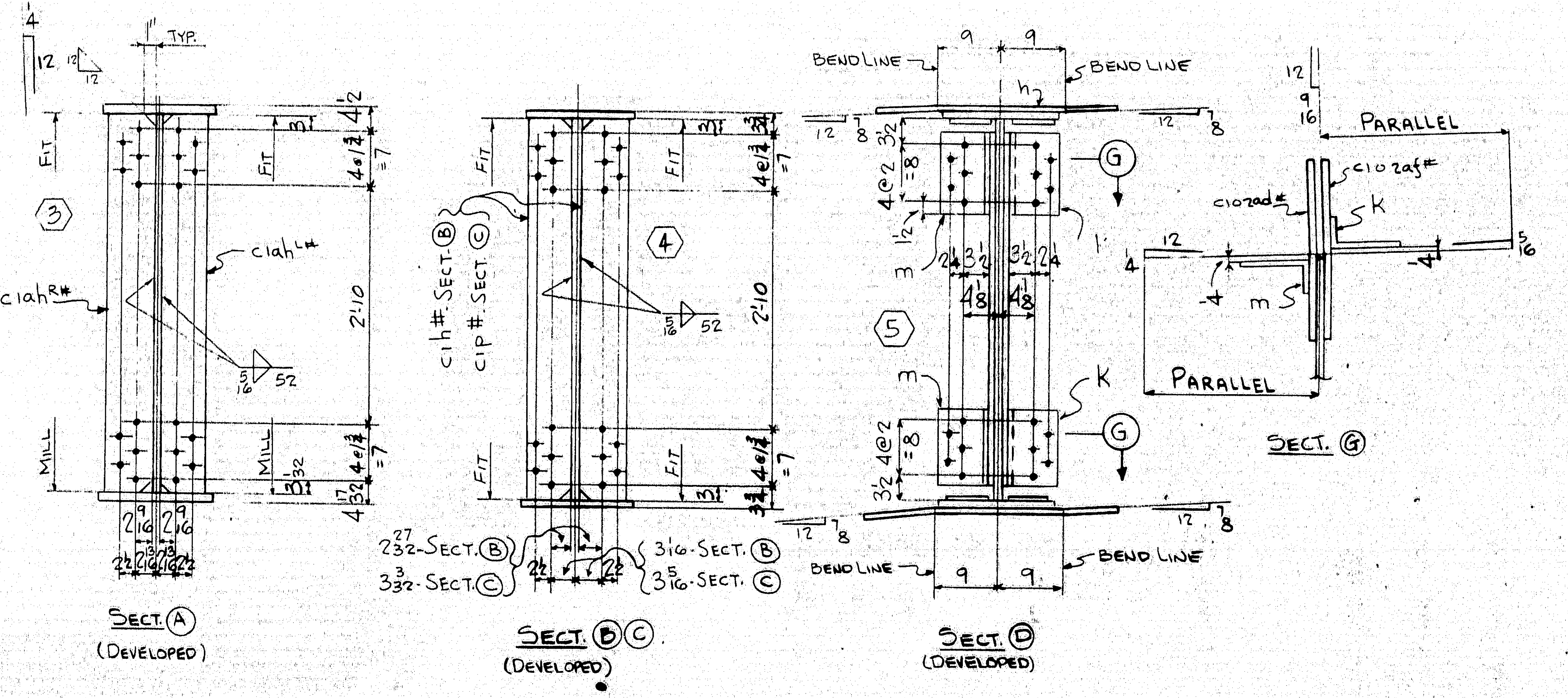
E7 & E8

a	b	c

1 2 3 4 5 INCHES



GIRDER- G11-10

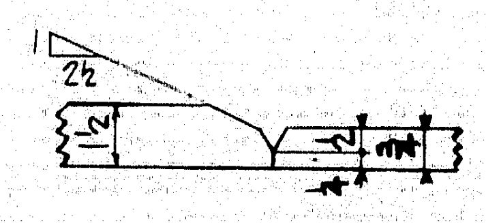


SECT. (A) (DEVELOPED)

SECT. (B)(C) (DEVELOPED)

SECT. (D) (DEVELOPED)

SECT. (G)



DETAIL "AA"

LINE	ASSEMBLY MARK	NO	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	THICK	LENGTH FT	LENGTH IN	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1	ONE-GIRDER-G11-10												
2	a	1	PL	54		1/2	37	11 3/16	56×1/2	38	5 1/4	2	75
3	b	1	PL	54		7/16	57	6 5/16	56 1/2×7/16	57	10 3/4	2	73
4	c	1	PLU	16		1 1/2	37	9 1/4		38	4 3/4	3	73
5	d	1	PLU	16		1 1/2	37	11 3/8		38	4 3/4	3	73
6	f	1	PLU	16		3/4	57	6 9/16		57	9 3/4	4	73
7	g	1	PLU	16		3/4	57	4 7/16		57	9 3/4	4	73
8	h	2	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
9	K	2	L	7	3 1/4	1/2	0	11	BENT C.F. 7×4×1/2	40	0	36	39
10	m	2	L	7	3 1/4	1/2	0	11	BENT C.F. 7×4×1/2	40	0	36	39
11	C1ah R/L #	1/1	BR	7 1/2		3/4	4	6 1/32	(MIE) (FIE)	18	4	24	49
12	C1h#	2	BR	7		1/2	4	6	F2E	18	4	24	51
13	C1p#	2	BR	7		1/2	4	6	F2E	18	4	24	51
14	C2ad#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
15	C2af#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
16	C2cy#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
17	C2cw#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
18	C2bw#	2	PL	16		3/8	1	0 29/32				J	
19													
20													
21													
22													
23													
24													
25													
26	U57	1	UPPER SHOE						DET. ON DWG. #2				
27		6	325	7/8 ϕ			0	3					
28		13	325	7/8 ϕ			0	2 1/2					
29		24	325	7/8 ϕ			0	3 3/4					
30		43	HW	1 3/4	15/16	3/16							
31		2	58	7/8 ϕ			0	3					
32													
33													
34	FWL	1	WD			7/16	381	1 1/2					
35	FWS	1	WD			5/16	52	0					
36	FW	1	WD			1/2	1	2					
37	SDS	1	WD			7/16	4	6					
38	V6DS	1	WD			3/4	2	8					
39	SD	1	WD			3/16	0	8					
40													
41													
42													
43													
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48													
49													
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52													
53													
54													
55													

INST.-11E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G11-10	GIRDER 31 1/2 x 60 x 96'-6	

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S.S. Nishimura
NOV 18 1969

PAY ITEM - 504.711

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - NP 3

NO TACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE E7016, 18, 28 LOW HYDROGEN ELECTRODES OR GR. SAW-2 FOR WELDING.

MIN. [illegible] AT POINTS OF [illegible]	[illegible] PREHEAT [illegible]
TO 3/4" INCL. OVER 3/4" TO 1 1/2" OVER 1 1/2" TO 2 1/2" OVER 2 1/2"	[illegible]

MATERIAL A36 STEEL
[redacted] BOLTS 7/8 ϕ
OPEN HOLES 15/16 ϕ
A325 FIELD BOLTS
SHOP CONTACT SURFACES No PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)
REAM - AS NOTED

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

REVISION

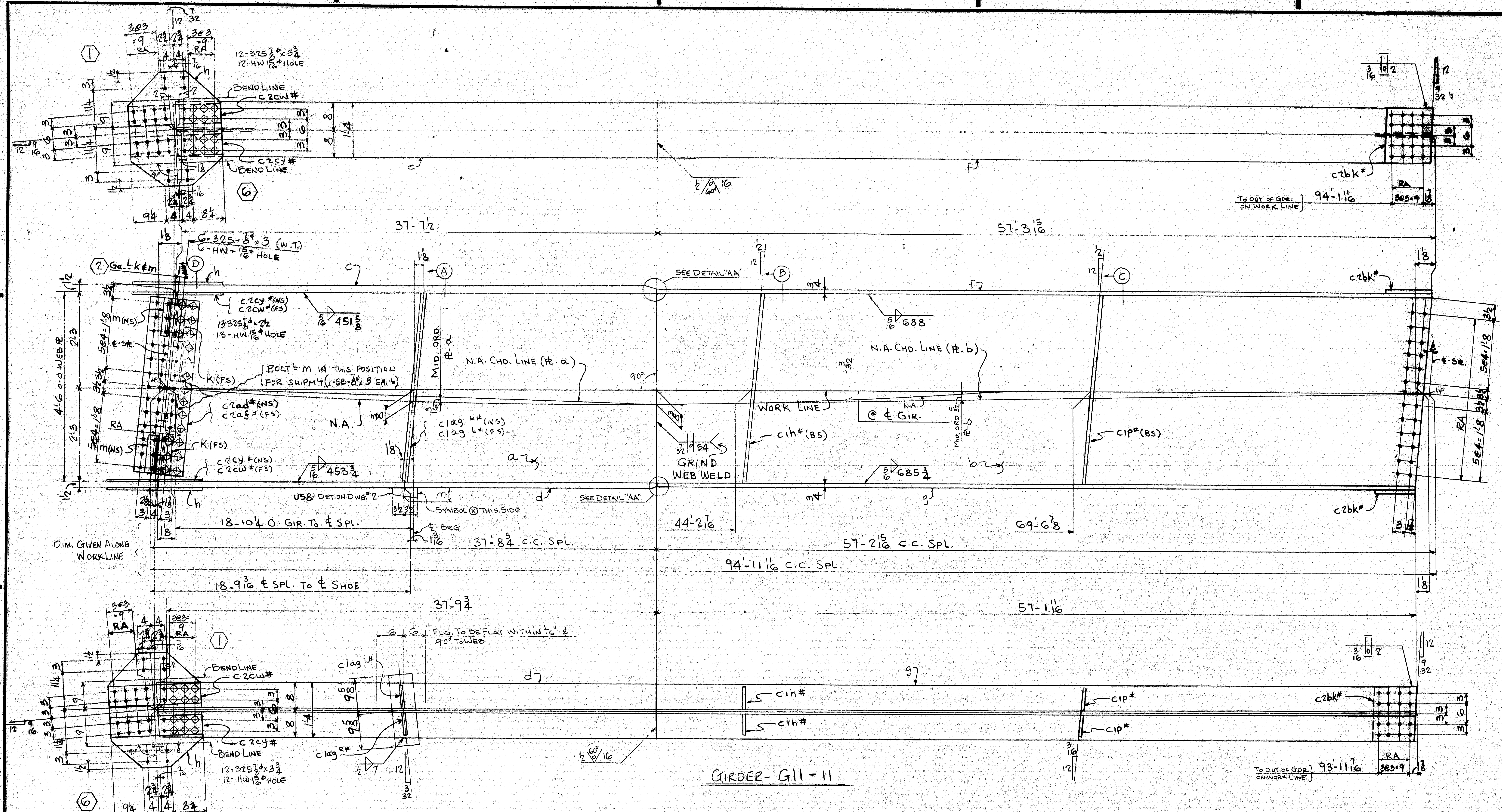
GIRDER

CUSTOMER
MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
[redacted] PROJECT. No I-95-1(22)16
CONT. No. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY R.H.G. DATE 8/20/69 IN CHARGE B.K. BERTOLET
CHECKED BY R.J. DATE 9/15/69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 226

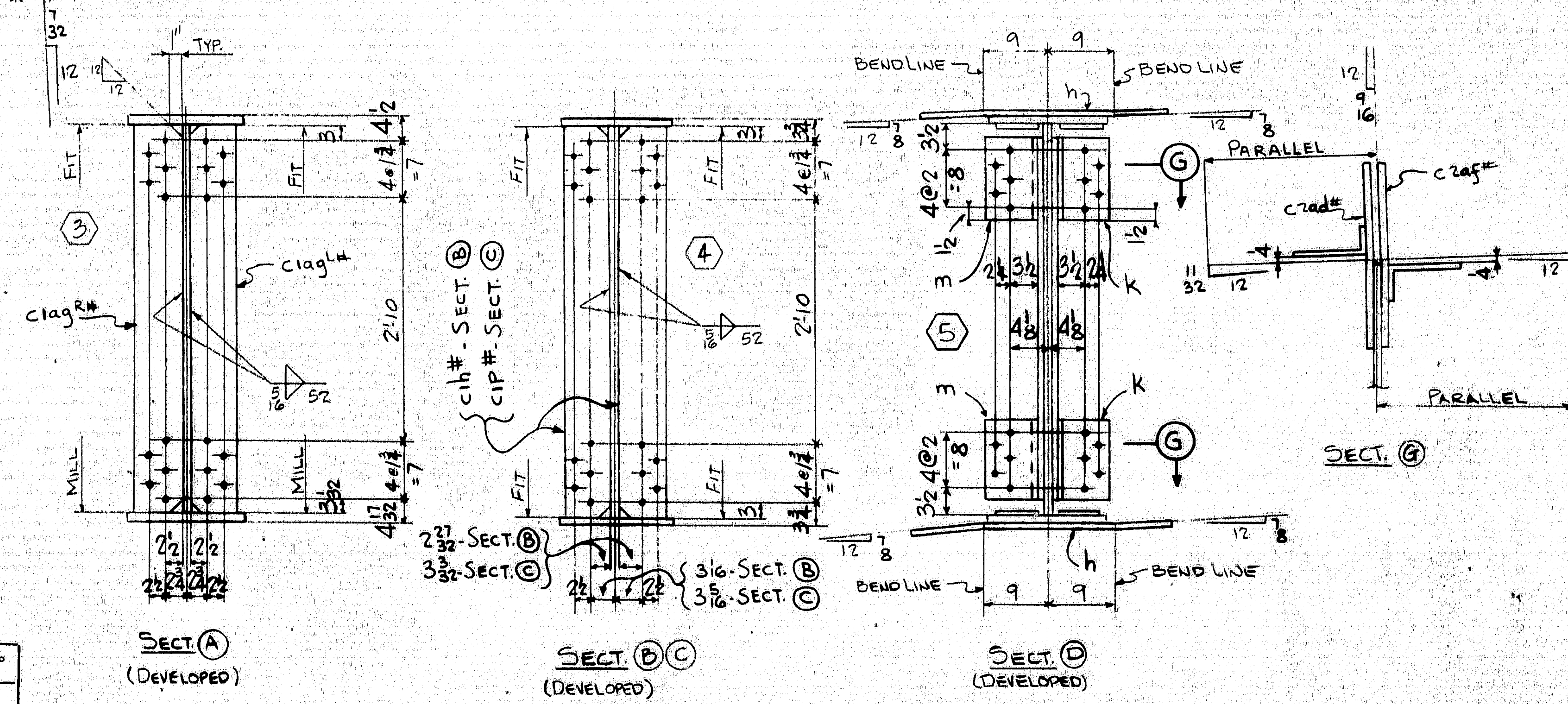
For location of details shown on this sheet refer to diagrams.
E7 & E8

33453 (Rev.C 4-63)

107-27



GIRDER- G11-11

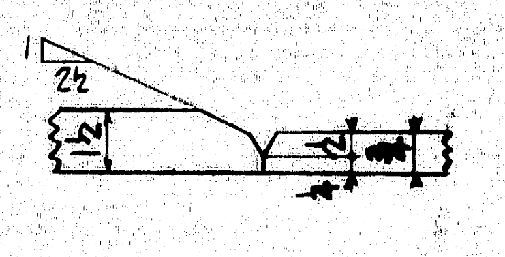


SECT. Ⓐ
(DEVELOPED)

SECT. Ⓑ Ⓒ
(DEVELOPED)

SECT. Ⓓ
(DEVELOPED)

SECT. Ⓖ



DETAIL "AA"

LINE	ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	FT.	IN.		
1	ONE-GIRDER-G11-11												
2	a	1	PL	54		½	37	9¾	56×½	38	5¼	2	[illegible]
3	b	1	PL	54		7/16	57	3 15/16	56½×7/16	57	10¾	2	[illegible]
4	c	1	PLU	16		1½	37	7 5/8		38	4¼	3	[illegible]
5	d	1	PLU	16		1½	37	9 7/8		38	[illegible]	3	[illegible]
6	f	1	PLU	16		¾	57	4 1/8		57	9¼	4	[illegible]
7	g	1	PLU	16		¾	57	1 7/8		57	9¼	4	[illegible]
8	h	2	PL	25½		½	2	7½	BENT	22	4	24	[illegible]
9	k	2	L	7	3¼	½	0	11	BENT C.F. 7×4×½	40	0	36	39
10	m	2	L	7	3¼	½	0	11	BENT C.F. 7×4×½	40	0	36	39
11	c1h#	2	BR	7		½	4	6	F2E	18	4	24	51
12	c1p#	2	BR	7		½	4	6	F2E	18	4	24	51
13	c1ag R/L #	1/1	BR	7½		¾	4	6 1/32	MIE FIE	18	4	24	49
14	c2ad#	1	PW	13		3/8	4	2	BENT	21	1	24	[illegible]
15	c2af#	1	PW	13		3/8	4	2	BENT	21	1	24	[illegible]
16	c2cy#	2	BR	6½		½	2	1½		19	0	24	50
17	c2cw#	2	BR	6½		½	2	1½		19	0	24	50
18	c2bk#	2	PL	16		3/8	1	0 7/8				J	
19													
20													
21													
22													
23													
24													
25													
26	US8	1	UPPER SHOE						DET. ON DWG #2				
27		6	325	7/8φ			0	3					
28		13	325	7/8φ			0	2½					
29		24	325	7/8φ			0	3¾				M	
30		43	HW	1¾	15/16	3/16							
31		2	SB	7/8φ			0	3					
32													
33													
34	FWL	1	WD			5/16	378	2¼					
35	FWS	1	WD			5/16	52	0					
36	FW	1	WD			½	1	2					
37	SDS	1	WD			7/16	4	6					
38	V60S	1	WD			¾	2	8					
39	SD	1	WD			3/16	0	8					
40													
41													
42													
43													
44													
45													
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47													
48													
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50													
51													
52													
53													
54													
55													

INST.-11E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G11-11	GIRDER 31½×60×96'-3	

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S. S. Nishimura NOV 18 1969

PAY ITEM - 504.711

NOV 18 1969

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - NP 3

NO TACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE E7018, 28 LOW HYDROGEN ELECTRODES OR [illegible] FOR WELDING.

[illegible]	[illegible]
TO 3/4" INCL.	[illegible]
OVER 3/4" TO 1 1/2"	[illegible]
OVER 1 1/2" TO 2 1/4"	[illegible]
OVER 2 1/4"	[illegible]

MATERIAL A36 STEEL
BOLTS 7/8φ
OPEN HOLES 15/16φ
A325 FIELD BOLTS
SHOP CONTACT SURFACES NO PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)
REAM - AS NOTED

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

NO.	DATE	INIT.
0		
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2		
1		
REVISION		

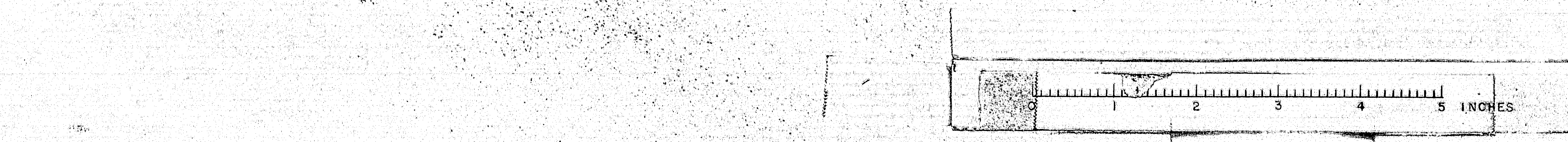
GIRDER

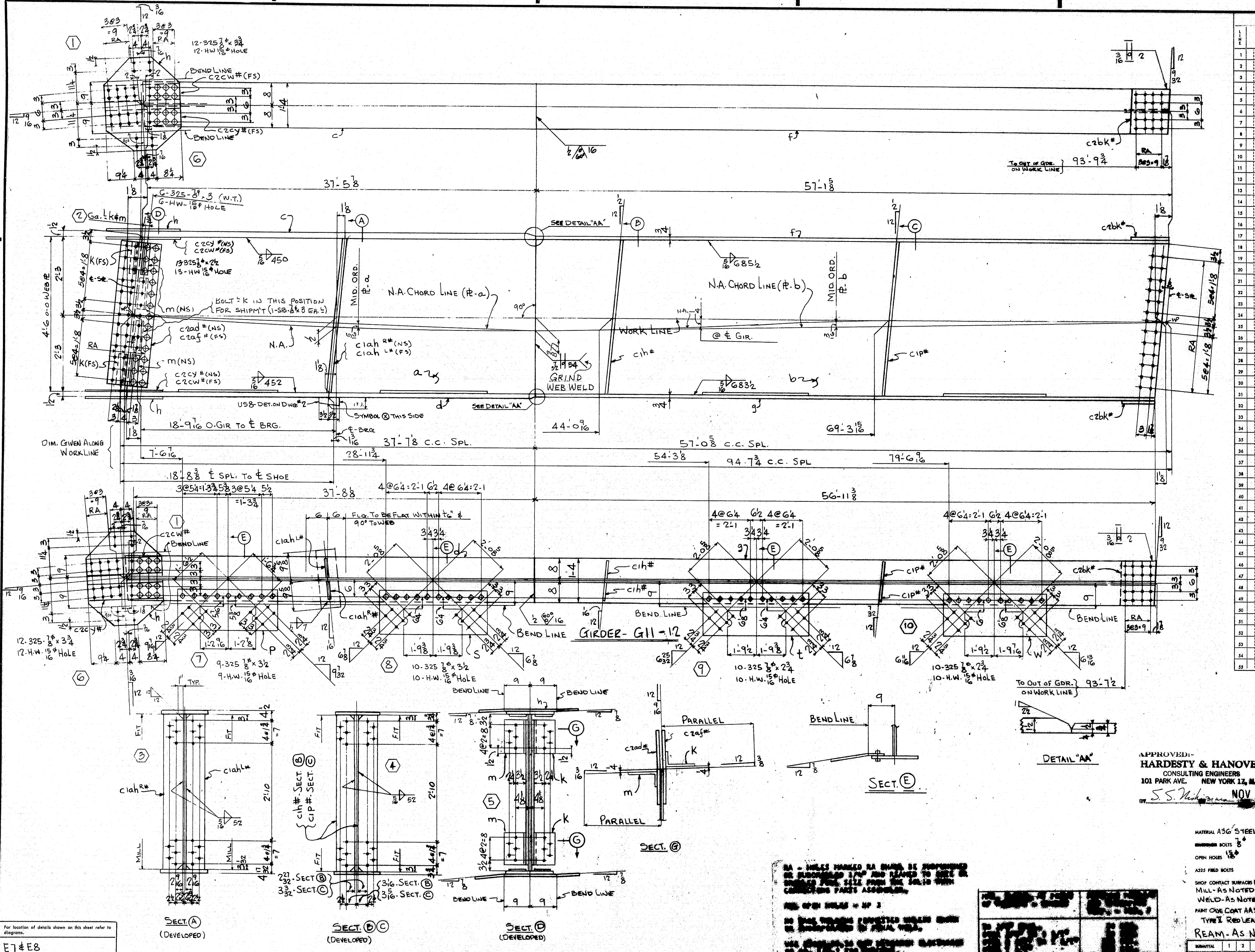
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. No I-95-1(22)16
CONT. No. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RHG DATE 8/21/69 IN CHARGE B. K. BERTOLET
CHECKED BY RJ DATE 9/15/69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 227

107-28

For location of details shown on this sheet refer to diagrams.

E7 & E8





LINE	ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1	ONE-GIRDER-G11-12												
2	a	1	PL	54		1/2	37	8 1/8	56×1/2	38	5 1/4	2	75
3	b	1	PL	54		7/16	57	1 5/8	56 1/2×7/16	57	10 3/4	2	73
4	c	1	PLU	16		1 1/2	37	6		38	4 3/4	3	73
5	d	1	PLU	16		1 1/2	37	8 1/4		38	4 3/4	3	73
6	f	1	PLU	16		3/4	57	1 13/16		57	9 3/4	4	73
7	g	1	PLU	16		3/4	56	11 9/16		57	9 3/4	4	73
8	h	2	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
9	K	2	L	7	3 1/4	1/2	0	11	BENT C.F. 7×4×1/2	40	0	36	39
10	m	2	L	7	3 1/4	1/2	0	11	BENT C.F. 7×4×1/2	40	0	36	39
11	P	1	PL	14 1/2		5/8	3	9 3/8		26	0	28	19
12	S	1	PL	14 1/2		5/8	4	11 1/2		26	0	28	19
13	t	1	PL	14 1/2		5/8	4	11 1/2		26	0	28	19
14	W	1	PL	14 1/2		5/8	4	11 1/2		26	0	28	19
15	c1ah R/L #	1/1	BR	7 1/2		3/4	4	6 1/32	(M1E) (F1E)	18	4	24	49
16	c1h#	2	BR	7		1/2	4	6	F2E	18	4	24	51
17	c1P#	2	BR	7		1/2	4	6	F2E	18	4	24	51
18	c2ad#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
19	c2af#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
20	c2cy#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
21	c2cw#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
22	c2bk#	2	PL	16		3/8	1	0 7/8				J	
23													
24													
25													
26	US8	1	UPPER SHOE						DET. ON DWG. #2				
27		19	325	7/8φ			0	3 1/2					
28		13	325	7/8φ			0	2 1/2					
29		24	325	7/8φ			0	3 3/4				M	
30		82	HW	1 3/4	15/16	5/16							
31		20	325	7/8φ			0	2 3/4					
32		2	SB	7/8φ			0	3					
33		6	325	7/8φ			0	3					
34	FWL	1	WD			5/16	378	6					
35	FWS	1	WD			5/16	52	0					
36	FW	1	WD			1/2	1	2					
37	SDS	1	WD			7/16	4	6					
38	V60S	1	WD			3/4	2	8					
39	SD	1	WD			3/16	0	8					
40													
41													
42													
43													
44													
45													
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54													
55													

INST.-11E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G11-12	GIRDER (34 3/4×60×95'-11)	

PAY ITEM - 504.711

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 3/16" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

[illegible] OPEN HOLES = SP 3

NO [illegible] PERMITTED [illegible] IN FINAL WELD.

USE [illegible] ELECTRODES [illegible] FOR WELDING.

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S. S. Nishi[illegible] NOV 18 1969

MATERIAL A36 STEEL
BOLTS 7/8φ
OPEN HOLES 15/16φ
A325 FIELD BOLTS
SHOP CONTACT SURFACES No PAINT
MILL-AS NOTED
WELD-AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)
REAM-AS NOTED

For location of details shown on this sheet refer to diagrams.
E7 & E8

GIRDER - G11-12

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. No I-95-1(22)16
CONT. No. 3 - NEW HAMPSHIRE APR.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RHG DATE 8/29/69 IN CHARGE [illegible]
CHECKED BY RJ DATE 9/15/69 SHOP NO. [illegible]
CONTRACT [illegible] DRAWING NO. 228

NO.	DATE	INT.
0		
9		
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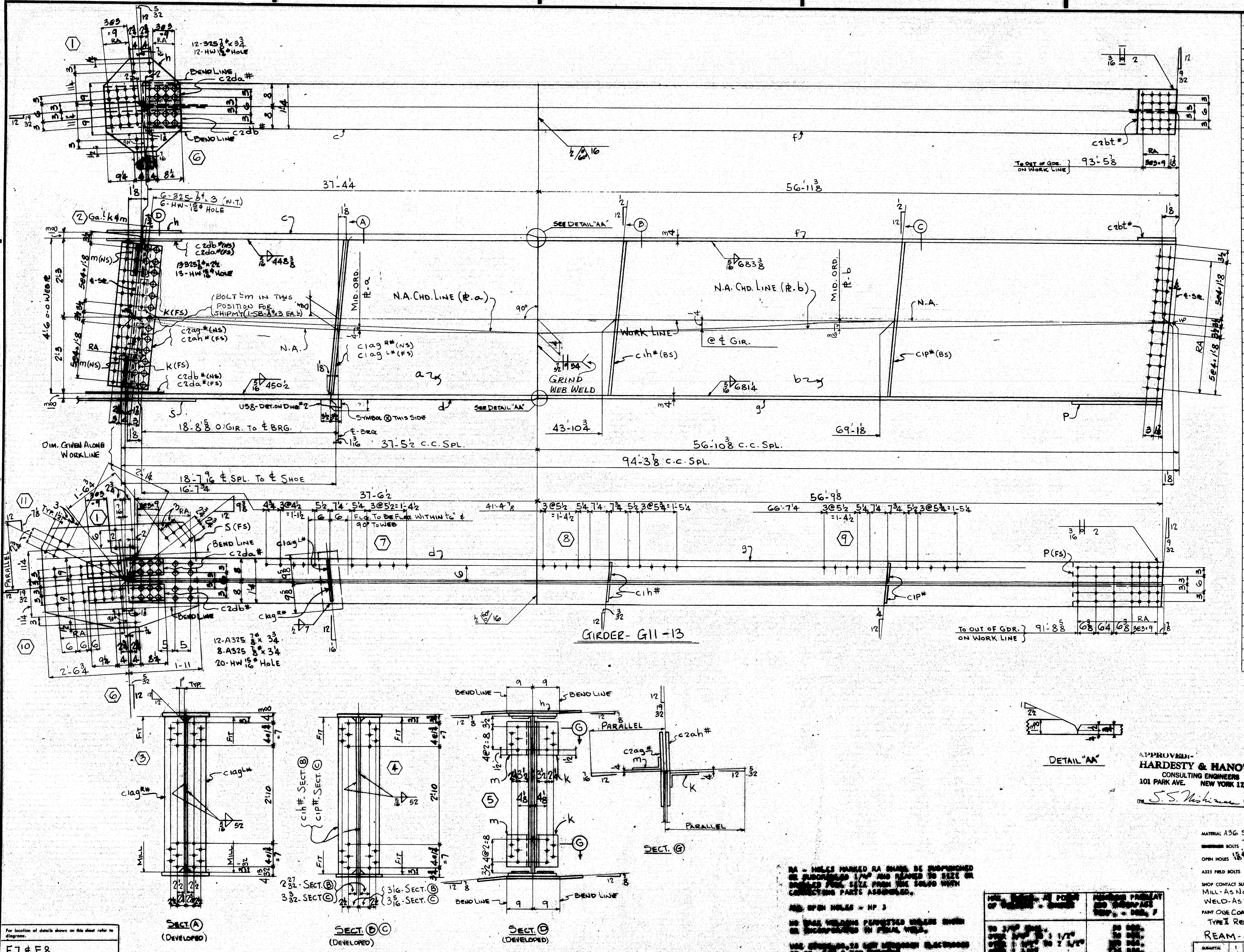
1		

REVISION

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

107-29



APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S. S. Nishimura NOV 18 1969

PAY ITEM - 504.711

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - NP 3

NO TACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE [illegible] LOW HYDROGEN ELECTRODES OR [illegible] FOR WELDING.

[illegible] OF [illegible]	[illegible] PREHEAT [illegible]
TO 3/4" [illegible] OVER [illegible] TO 1 1/2" OVER 1 1/2" TO 2 1/2" OVER 2 1/2"	[illegible] DEG. [illegible] DEG. [illegible] DEG. [illegible] DEG.

LINE	ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1		ONE-GIRDER-G11-13											
2	a	1	PL	54		1/2	37	6 1/2	56×1/2	38	5 1/4	2	75
3	b	1	PL	54		7/16	56	11 3/8	56 1/2×7/16	57	10 3/4	2	73
4	c	1	PLU	16		1 3/8	37	4 3/8		37	7 1/2	3	77
5	d	1	PLU	16		1 3/8	37	6 9/16		37	7 1/2	3	77
6	f	1	PLU	16		3/4	56	11 9/16		57	1	4	74
7	g	1	PLU	16		3/4	56	9 5/16		57	1	4	74
8	h	1	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
9	K	2	L	7	3 1/4	1/2	0	11	BENT C.F. 7×4×1/2	40	0	36	39
10	m	2	L	7	3 1/4	1/2	0	11	BENT C.F. 7×4×1/2	40	0	36	39
11	p	1	PL	16		1/4	2	7 9/16				J	
12	s	1	PL	35		5/8	4	5 3/4	BENT 36×5/8 MULTS	4	6	28	18
13	c1ag R/L #	1/1	BR	7 1/2		3/4	4	6 1/32	(MIE) (FIE)	18	4	24	49
14	c1h#	2	BR	7		1/2	4	6	F2E	18	4	24	51
15	c1p#	2	BR	7		1/2	4	6	F2E	18	4	24	51
16	c2ag#	1	PW	13		3/8	4	2	BENT	21	1	24	48
17	c2ah#	1	PW	13		3/8	4	2	BENT	21	1	24	48
18	c2da#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
19	c2db#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
20	c2bt#	1	PL	16		1/4	1	0 29/32				J	
21													
22													
23													
24													
25													
26	U58	1	UPPER SHOE						DET. ON DWG #2				
27		6	325	7/8⌀			0	3					
28		13	325	7/8⌀			0	2 1/2					
29		24	325	7/8⌀			0	3 3/4				M	
30		43	HW	1 3/4	15/16	3/16							
31		2	SB	7/8⌀			0	3					
32													
33													
34	FWL	1	WD			5/16	377	3					
35	FWS	1	WD			5/16	52	0					
36	FW	1	WD			1/2	1	2					
37	SDS	1	WD			7/16	4	6					
38	V60S	1	WD			3/4	2	8					
39	SD	1	WD			3/16	0	8					
40													
41													
42													
43													
44													
45													
46													
47													
48													
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50													
51													
52													
53													
54													
55													

INST.-11E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G11-13	GIRDER (35 1/2x60x96-8)	

MATERIAL A36 STEEL
[redacted] BOLTS 7/8⌀
OPEN HOLES 15/16⌀
A325 FIELD BOLTS
SHOP CONTACT SURFACES No PAINT
MILL-AS NOTED
WELD-AS NOTED
PAINT ONE COAT AASHO-M72-TYPE I RED LEAD (UN)
REAM-AS NOTED

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

NO.	DATE	INT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

REVISION

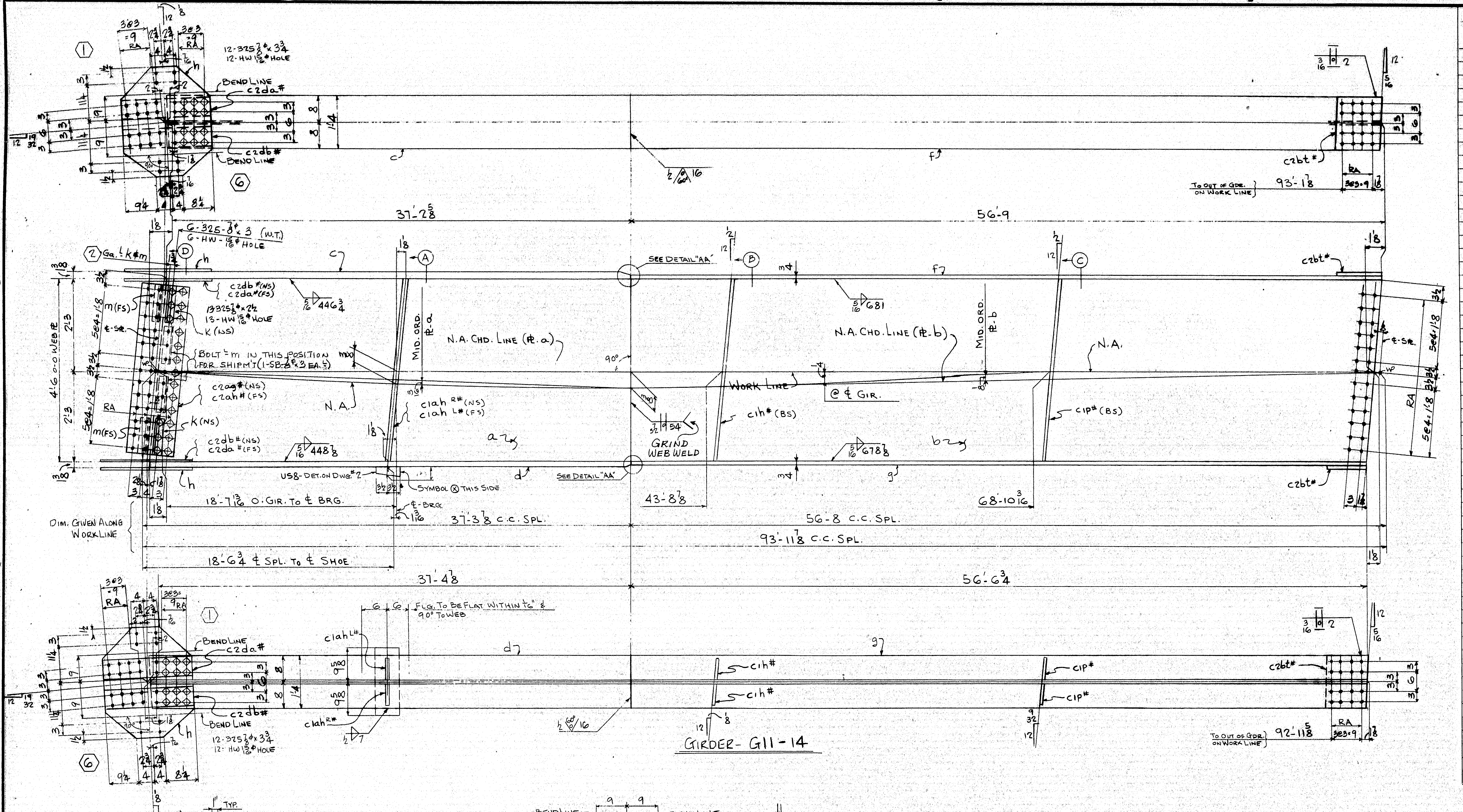
GIRDER - G11-13

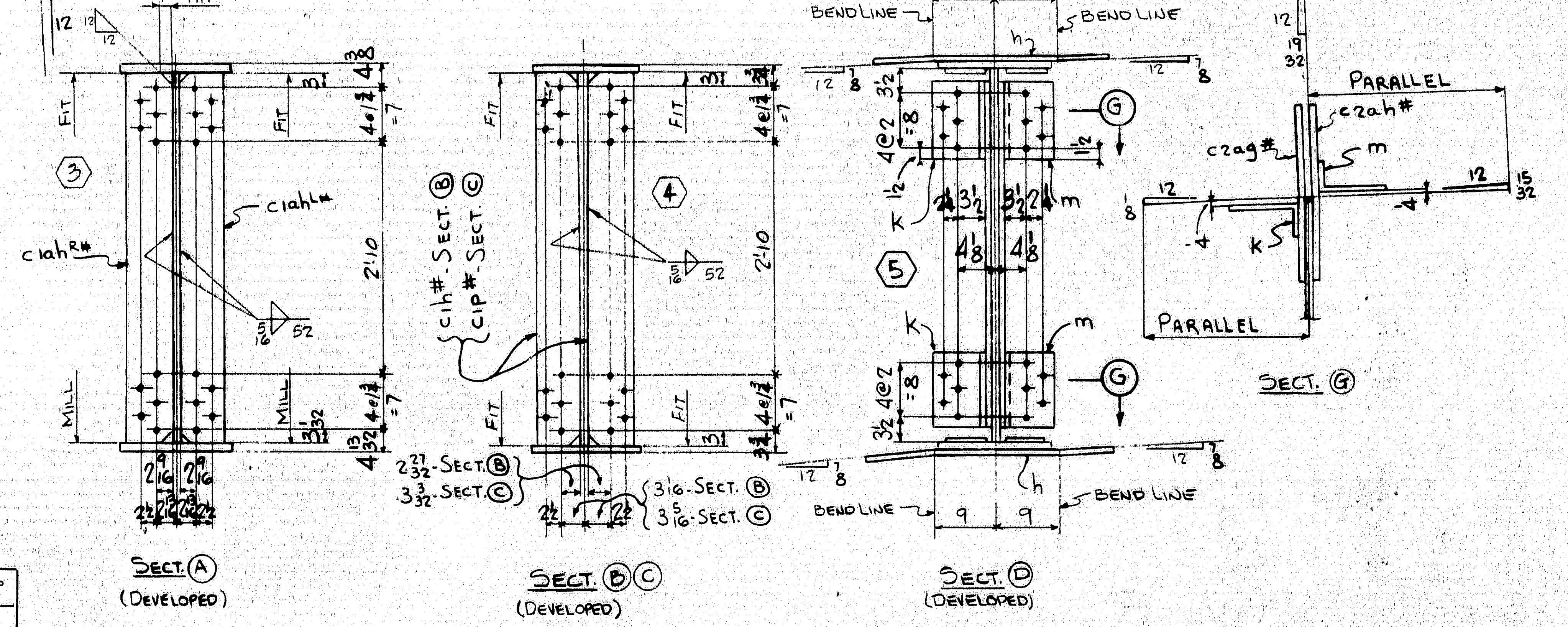
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
[redacted] PROJECT. No I-95-1(22)16
CONT. No. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RHG DATE 8/28/69 IN CHARGE B.K. BERTOLET
CHECKED BY RJ DATE 9/15/69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 229

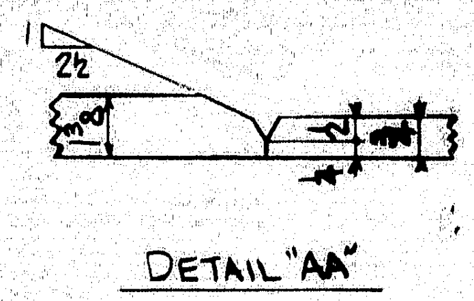
For location of details shown on this sheet refer to diagrams.
E7 & E8

107-30

33433 (Rev.C 4/63)






DETAIL "AA"

LINE	ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1	ONE-GIRDER-G11-14												
2	a	1	PL	54		1/2	37	4 7/8	56 x 1/2	38	5 1/4	2	75
3	b	1	PL	54		7/16	56	9	56 1/2 x 7/16	57	10 3/4	2	73
4	c	1	PLU	16		1 3/8	37	2 11/16		37	7 1/2	3	77
5	d	1	PLU	16		1 3/8	37	4 15/16		37	7 1/2	3	77
6	f	1	PLU	16		3/4	56	9 3/16		57	1	4	74
7	g	1	PLU	16		3/4	56	6 15/16		57	1	4	74
8	h	2	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
9	k	2	L	7	3 1/4	1/2	0	11	BENT C.F. 7 x 4 x 1/2	40	0	36	39
10	m	2	L	7	3 1/4	1/2	0	11	BENT C.F. 7 x 4 x 1/2	40	0	36	39
11	c1ah R L #	1 / 1	BR	7 1/2		3/4	4	6 1/32	(M1E) (F1E)	18	4	24	49
12	c1h#	2	BR	7		1/2	4	6	F2E	18	4	24	51
13	c1p#	2	BR	7		1/2	4	6	F2E	18	4	24	51
14	c2da#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
15	c2db#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
16	c2ag#	1	PW	13		3/8	4	2	BENT	18	4	24	49
17	c2ah#	1	PW	13		3/8	4	2	BENT	18	4	24	49
18	c2bt#	2	PL	16		1/4	1	0 29/32				J	
19													
20													
21													
22													
23													
24													
25													
26	US8	1	UPPER SHOE						DET. ON DWG #2				
27		6	325	7/8 ⌀			0	3					
28		13	325	7/8 ⌀			0	2 1/2					
29		24	325	7/8 ⌀			0	3 3/4				M	
30		43	HW	1 3/4	15/16	3/16							
31		2	SB	7/8 ⌀			0	3					
32													
33													
34	FWL	1	WD			5/16	375	11					
35	FWS	1	WD			5/16	52	0					
36	FW	1	WD			1/2	1	2					
37	SDS	1	WD			7/16	4	6					
38	V60S	1	WD			3/4	2	8					
39	SD	1	WD			3/16	0	8					
40													
41													
42													
43													
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49													
50													
51													
52													
53													
54													
55													

INST.-11E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G11-14	GIRDER 31 1/2 x 60 x 95'-3 1/4	

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S. S. Nishimura NOV 18 1969

PAY ITEM - 504.711

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - NP 3

NO TACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE E7016, 18, 28 LOW HYDROGEN ELECTRODES OR GR. SAW-2 FOR WELDING.

MIN. THICK. AT POINT OF WELDING - INCHES	MINIMUM PREHEAT AND INTERPASS TEMP. - DEG. F
TO 3/4" INCL.	50 DEG.
OVER 3/4" TO 1 1/2"	70 DEG.
OVER 1 1/2" TO 2 1/2"	150 DEG.
OVER 2 1/2"	225 DEG.

MATERIAL A36 STEEL
[redacted] BOLTS 7/8 ⌀
OPEN HOLES 15/16 ⌀
A325 FIELD BOLTS
SHOP CONTACT SURFACES NO PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)
REAM - AS NOTED

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		
REVISION		

GIRDER

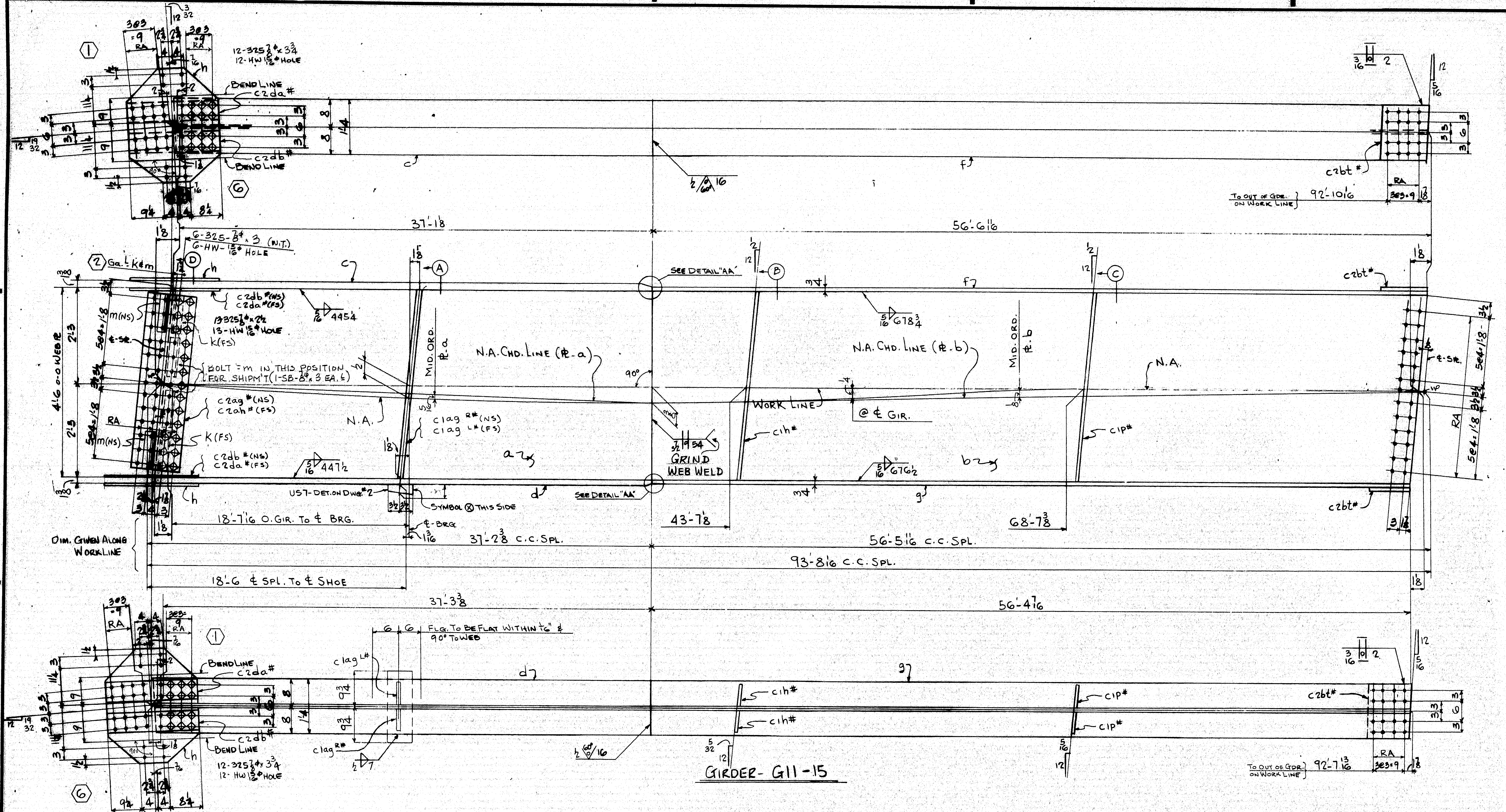
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
[redacted] PROJECT. No I-95-1(22)16
CONT. No. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL

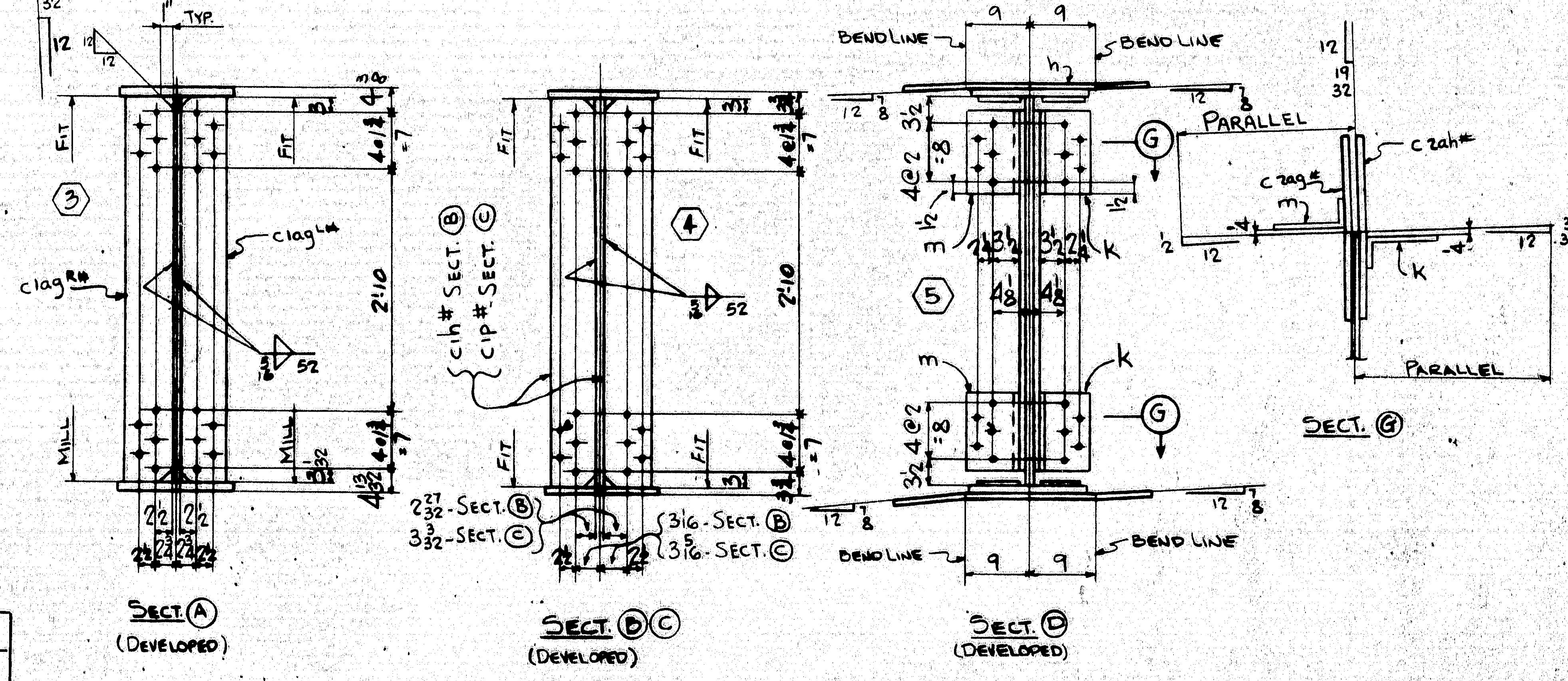
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RHG DATE 8/21/69 IN CHARGE B.K. BERTOLET
CHECKED BY RJ DATE 9/15/69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 230

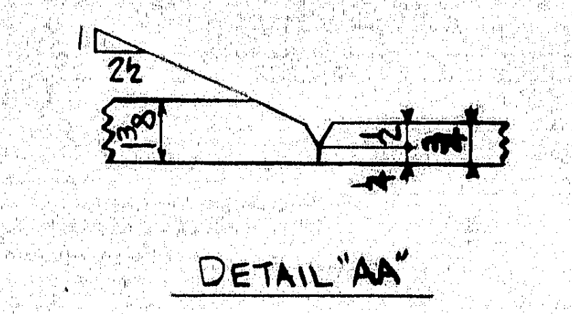
For location of details shown on this sheet refer to diagrams.

E7 & E8

107-31







DETAIL "AA"

INST.-11E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G11-15	GIRDER 31 1/2×60×94-11 1/2	

LINE	ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	MILL ORDER ITEM PAGE	MILL ORDER ITEM LINE
1	ONE-GIRDER-G11-15												
2	a	1	PL	54		1/2	37	3 3/8	56×1/2	38	5 1/4	2	75
3	b	1	PL	54		7/16	56	6 11/16	56 1/2×7/16	57	10 3/4	2	73
4	c	1	PLU	16		1 3/8	37	1 3/16		37	7 1/2	3	77
5	d	1	PLU	16		1 3/8	37	3 7/16		37	7 1/2	3	77
6	f	1	PLU	16		3/4	56	6 7/8		57	1	4	74
7	g	1	PLU	16		3/4	56	4 5/8		57	1	4	74
8	h	2	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
9	K	2	L	7	3 1/4	1/2	0	11	BENT C.F. 7×4×1/2	40	0	36	39
10	m	2	L	7	3 1/4	1/2	0	11	BENT C.F. 7×4×1/2	40	0	36	39
11	c1ag R/L #	1/1	BR	7 1/2		3/4	4	6 1/32	(M1E) (F1E)	18	4	24	49
12	c1h#	2	BR	7		1/2	4	6	F2E	18	4	24	51
13	c1p#	2	BR	7		1/2	4	6	F2E	18	4	24	51
14	c2ag#	1	PLW	13		3/8	4	2	BENT	21	1	24	48
15	c2ah#	1	PLW	13		3/8	4	2	BENT	21	1	24	48
16	c2da#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
17	c2db#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
18	c2bt#	2	PL	16		1/4	1	0 29/32				J	
19													
20													
21													
22													
23													
24													
25													
26	US7	1	UPPER SHOE						DET. ON DWG. #2				
27		6	325	7/8ϕ			0	3					
28		13	325	7/8ϕ			0	2 1/2					
29		24	325	7/8ϕ			0	3 3/4				M	
30		43	HW	1 3/4	15/16	3/16							
31		2	SB	7/8ϕ			0	3					
32													
33													
34	FWL	1	WD			5/16	374	7 3/4					
35	FWS	1	WD			5/16	52	0					
36	FW	1	WD			1/2	1	2					
37	SDS	1	WD			7/16	4	6					
38	V60S	1	WD			3/4	2	8					
39	SD	1	WD			3/16	0	8					
40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - NP 3

NO TACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE E7016, 18, 28 LOW HYDROGEN ELECTRODES OR GR. SAW-2 FOR WELDING.

MAX. THICK. AT POINT OF WELDING - INCHES	MINIMUM PREHEAT AND INTERPASS TEMP. - DEG. F
TO 3/4" INCL.	50 DEG.
OVER 3/4" TO 1 1/2"	70 DEG.
OVER 1 1/2" TO 2 1/2"	150 DEG.
OVER 2 1/2"	225 DEG.

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S. S. Nishimura NOV 18 [illegible]

PAY ITEM - 504.711

MATERIAL A36 STEEL
[redacted] BOLTS 7/8ϕ
OPEN HOLES 15/16ϕ
A325 FIELD BOLTS
SHOP CONTACT SURFACES NO PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)
REAM - AS NOTED

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

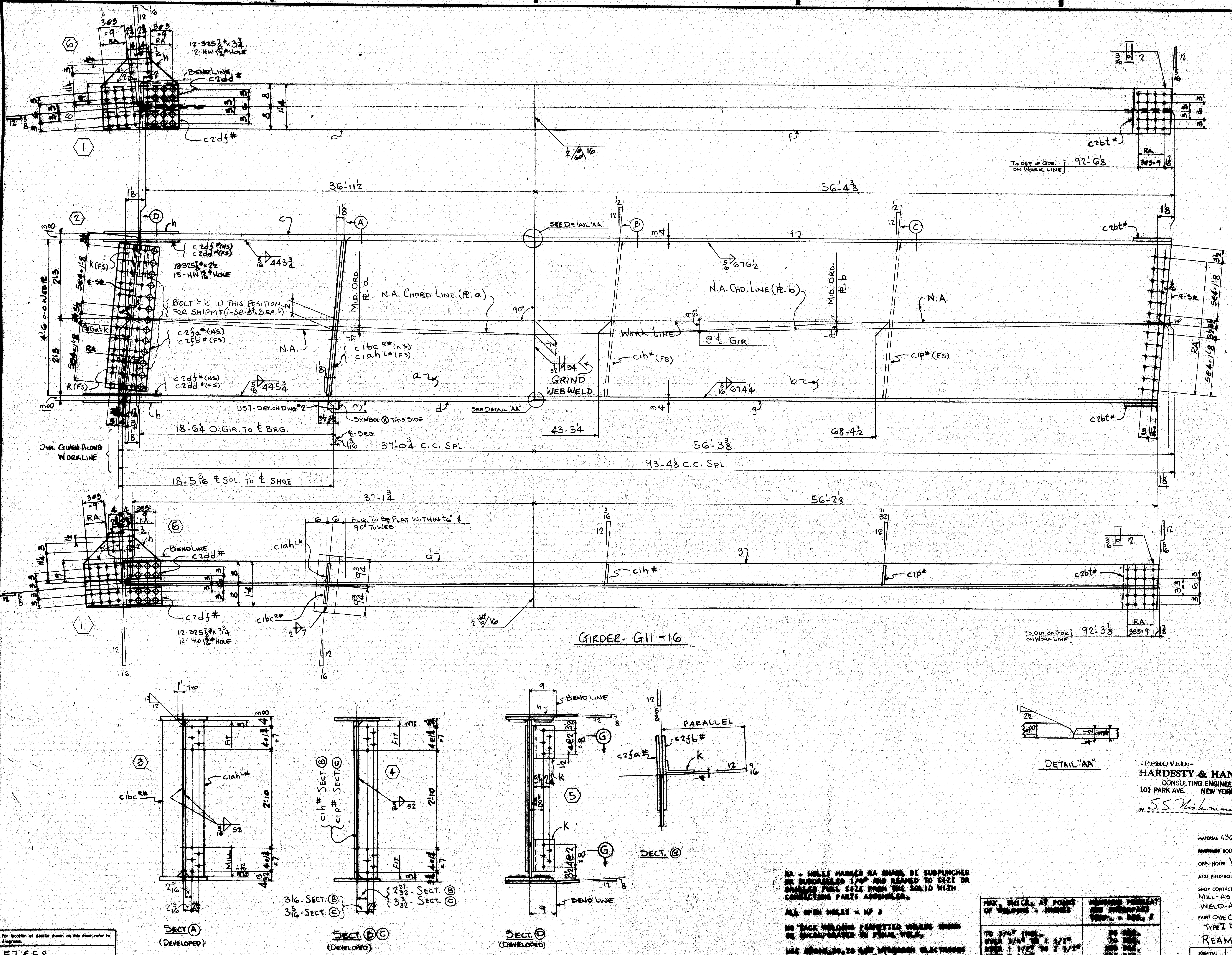
REVISION

GIRDER - G11-15

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
[redacted] PROJECT. No I-95-1(22)16
CONT. No. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RHG DATE 8/22/69 IN CHARGE B.K. BERTOLET
CHECKED BY RJ DATE 9/15/69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 231

For location of details shown on this sheet refer to diagrams.
E7 & E8

107-32



LINE	ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1		ONE	GIRDER	G11			-16						
2	a	1	PL	54		1/2	37	1 3/4	56×1/2	38	5 1/4	2	75
3	b	1	PL	54		7/16	56	4 3/8	56 1/2×7/16	57	10 3/4	2	73
4	c	1	PLU	16		1 3/8	36	11 1/32		37	7 1/2	3	77
5	d	1	PLU	16		1 3/8	37	1 25/32		37	7 1/2	3	77
6	f	1	PLU	16		3/4	56	4 9/16		57	1	4	74
7	g	1	PLU	16		3/4	56	2 5/16		57	1	4	74
8	h	2	PL	25 1/2		1/2	1	11 3/4	BENT	22	4	24	45
9	K	2	L	7	3 1/4	1/2	0	11	BENT C.F. 7×4×1/2	40	0	36	39
10	c1bc R#	1	BR	7 1/2		3/4	4	6 1/32	(MIE)(FIE)	18	4	24	49
11	c1ah L#	1	BR	7 1/2		3/4	4	6 1/32	(MIE)(FIE)	18	4	24	49
12	c1h#	1	BR	7		1/2	4	6	F2E	18	4	24	51
13	c1p#	1	BR	7		1/2	4	6	F2E	18	4	24	51
14	c2fa#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
15	c2fb#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
16	c2df#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
17	c2dd#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
18	c2bt#	2	PL	16		1/4	1	0 39/32				J	
19													
20													
21													
22													
23													
24													
25													
26	US7	1	UPPER SHOE						DET. ON DWG. #2				
27													
28		13	325	7/8⌀			0	2 1/2					
29		24	325	7/8⌀			0	3 3/4				M	
30		37	HW	1 3/4	15/16	3/16							
31		2	SB	7/8⌀			0	3					
32													
33													
34	FWL	1	WD			5/16	373	4					
35	FWS	1	WD			5/16	34	8					
36	FW	1	WD			1/2	1	2					
37	SDS	1	WD			7/16	4	6					
38	V60S	1	WD			3/4	2	8					
39	SD	1	WD			3/16	0	8					
40													
41													
42													
43													
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54													
55													

INST.-11E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G11-16	GIRDER (25 1/2×60×94'-6 1/2)	

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S.S. Nishimura [illegible] 1969

PAY ITEM - 504.711

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - NP 3

NO TACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE [illegible] NO. 28 LOW HYDROGEN ELECTRODES OR EQ. SAW-2 FOR WELDING.

MAX. THICK. AT POINT OF WELDING - INCHES	MINIMUM PREHEAT AND INTERPASS TEMP. - DEG. F
TO 3/4" INCL.	50 DEG.
OVER 3/4" TO 1 1/2"	70 DEG.
OVER 1 1/2" TO 2 1/2"	150 DEG.
OVER 2 1/2"	225 DEG.

MATERIAL A36 STEEL
BOLTS 7/8⌀
OPEN HOLES 15/16⌀
A325 FIELD BOLTS
SHOP CONTACT SURFACES NO PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)
REAM - AS NOTED

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

REVISION

GIRDER - G11-16

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. NO I-95-1(22)16
CONT. NO. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RHG DATE 8/25/69 IN CHARGE B.K. BERTOLET
CHECKED BY RJ DATE 9/15/69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 232

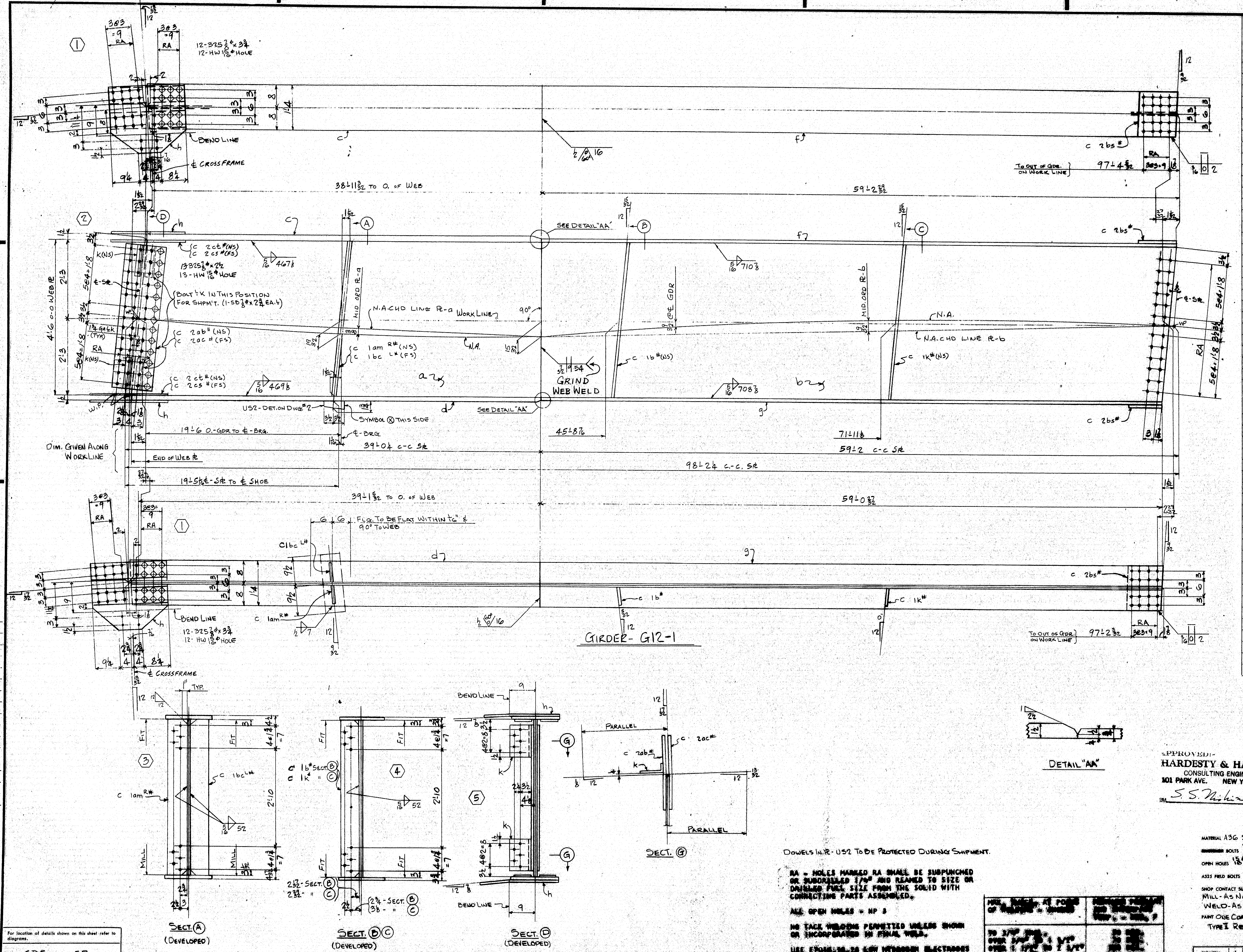
For location of details shown on this sheet refer to diagrams.

E7 & E8

a	b	c

107-33

CURVES - 34, 70



	a	b	c
a			
b			
c			
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f			
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h			
k			
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s			
t			
w			
y			

SHOP BILL

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM
1			ONE-	GIRDER-	G12-			-1						
2		a	1	PL	54		½	39	1 3/16	56 × ½	39	6½	2	74
3		b	1	PL	54		7/16	59	2 15/16	56½ × 7/16	59	7¼	2	71
4		c	1	PLU	16		1½	38	11 3/8		39	2¼	3	72
5		d	1	PLU	16		1½	39	1 7/16					
6		f	1	PLU	16		¾	59	3 1/16		59	4	4	71
7		g	1	PLU	16		¾	59	1					
8		h	2	PL	25½		½	1	11¼	BENT	22	4	24	45
9		k	2	L	7	3 4	½	0	11	BENT CF 7×4×½	40	0	36	39
10	c	1am R*	1	BR	7½		¾	4	6 1/32	MIE FIE	18	4	24	49
11	c	1bc L*	1	BR	7½		¾	4	6 1/32	MIE FIE	18	4	24	49
12	c	1b*	1	BR	7		½	4	6	F2E	18	4	24	51
13	c	1k*	1	BR	7		½	4	6	F2E	18	4	24	51
14	c	2bs*	2	PL	16		7/8	1	0 7/8				J	
15	c	2ab*	1	PLU	13		3/8	4	2	BENT	21	1	24	48
16	c	2ac*	1	PLU	13		3/8	4	2	BENT	21	1	24	48
17	c	2cs*	2	BR	6½		½	2	1½		19	0	24	50
18	c	2ct	2	BR	6½		½	2	1½		19	0	24	50
19														
20														
21			2	SB	7/8⌀			0	2¾				M	
22														
23														
24														
25														
26		US2	1	UPPER SHOE						DET. ON DWG. #2				
27														
28			13	325	7/8⌀			0	2½					
29			24	325	7/8⌀			0	3¾				M	
30			37	HW	1¾	15/16	3/16							
31														
32														
33														
34		FWL	1	WD			5/16	392	8					
35		FWS	1	WD			5/16	34	8					
36		FW	1	WD			½	1	2					
37		SDS	1	WD			7/16	4	6					
38		VGOS	1	WD			½	2	8					
39		SD	1	WD			3/16	0	8					
40														
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54														
55														

INST.-12W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G12-1	GIRDER (59¼ × 25¼ × 99-5¼)	

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y
BY S. S. Nishimura OCT 15 1969

PAY ITEM - 504.711

DOWELS IN ℞- US2 TO BE PROTECTED DURING SHIPMENT.

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - NP 3

NO TACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE E7016, 18, 28 LOW HYDROGEN ELECTRODES OR GR. SAW-2 FOR WELDING.

[illegible]	[illegible]
TO 3/4" [illegible] OVER 3/4" [illegible] 1 1/2" OVER 1 1/2" [illegible] 2 1/4" OVER 2 1/4"	[illegible]

MATERIAL A36 STEEL
BOLTS 7/8⌀
OPEN HOLES 15/16⌀
A325 FIELD BOLTS 7/8"⌀
SHOP CONTACT SURFACES NO PAINT
MILL- AS NOTED
WELD- AS NOTED
PAINT ONE COAT AASHO-M72- TYPE II RED LEAD (UN)

GIRDER-G12-1

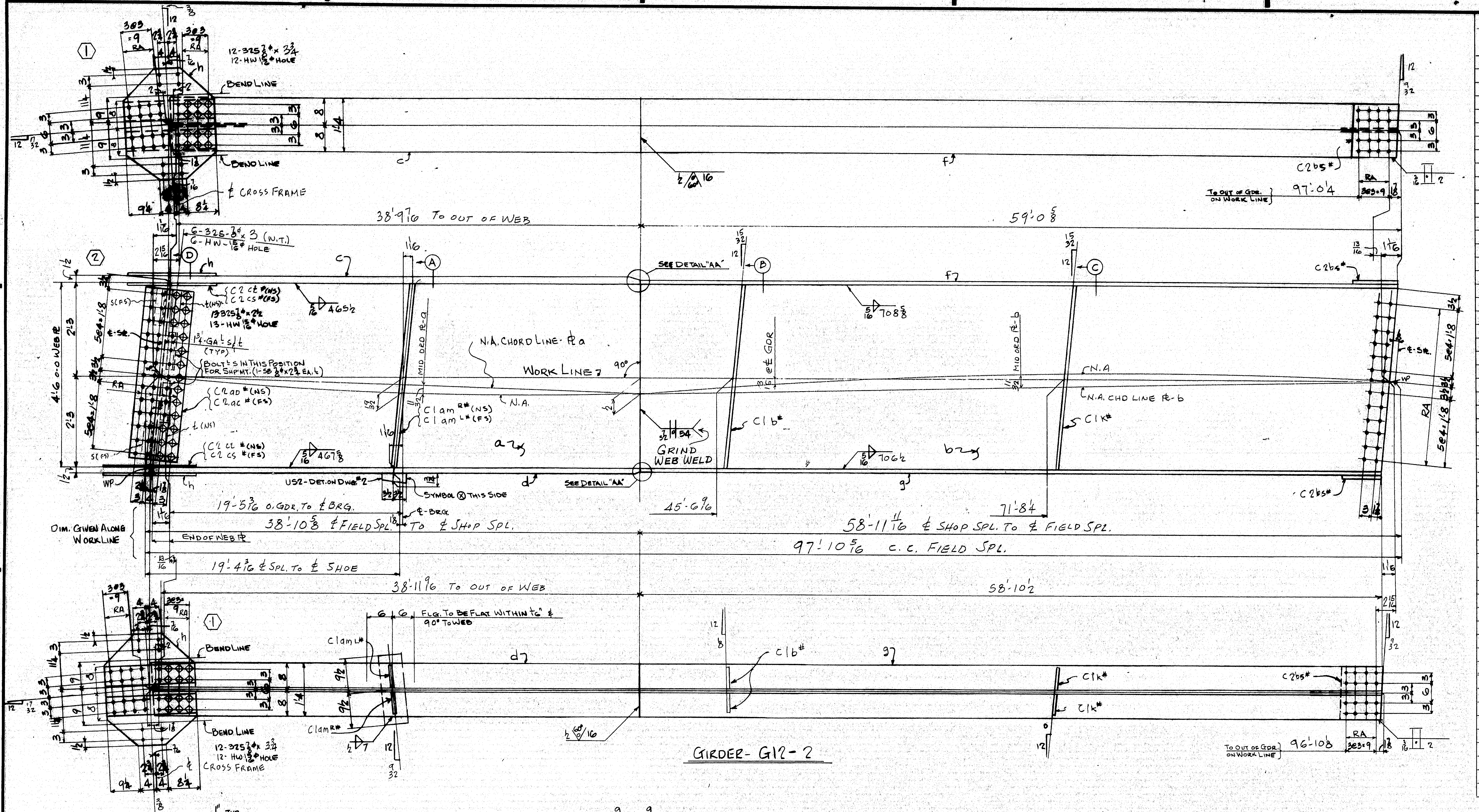
REVISION NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

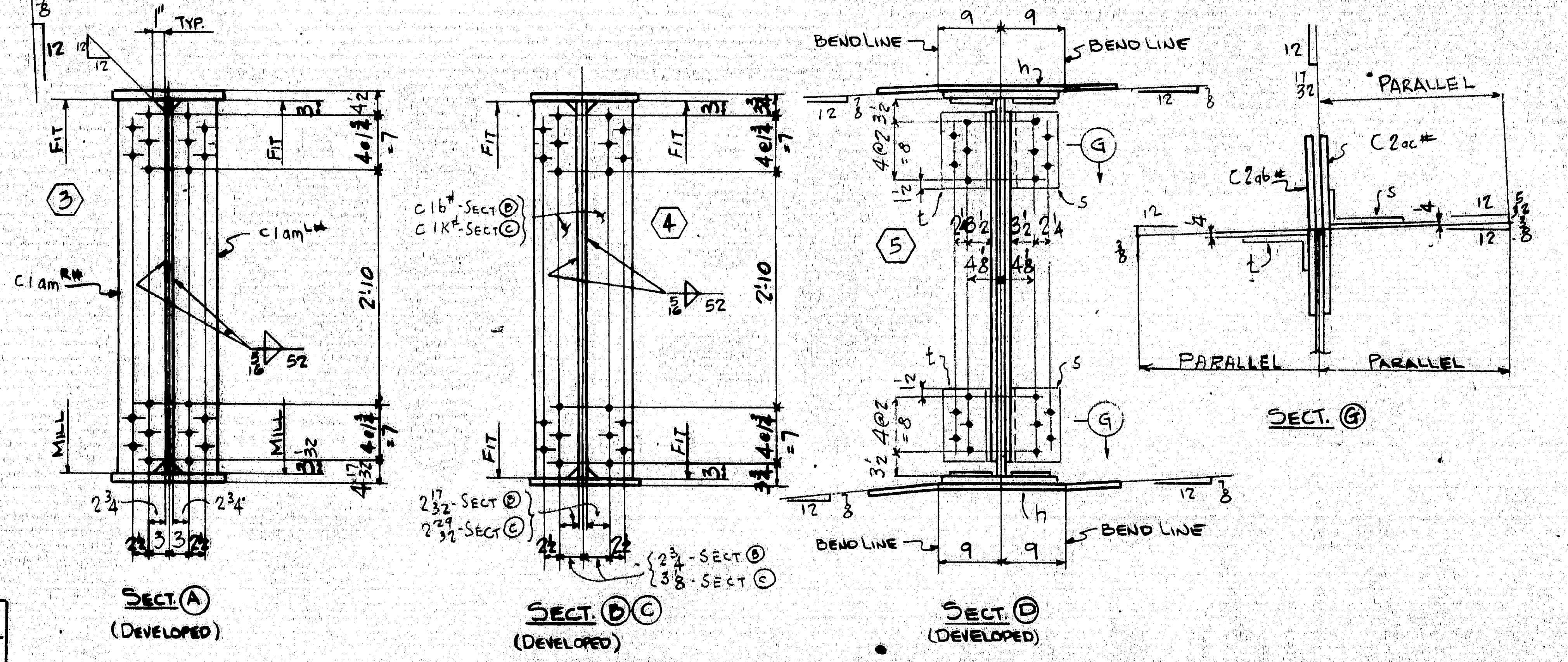
SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

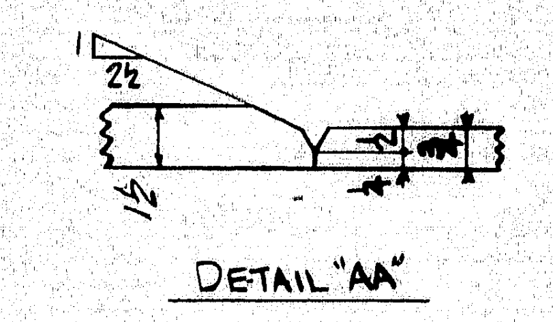
CUSTOMER
MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. No I-95-1(22)16
CONT. No. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY CCM DATE 8-22-69 IN CHARGE B. K. BERTOLET
CHECKED BY CB DATE 9-22-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 233

For location of details shown on this sheet refer to diagrams.
GD5 E7

107'34 3 1






DETAIL "AA"

LINE	ASSEMBLY MARK		NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	MILL ORDER ITEM PAGE	MILL ORDER ITEM LINE
1			ONE-GIRDER-G12-2											
2		a	1	PL	54		1/2	38	11 9/16	56x1/2	39	6 1/2	2	74
3		b	1	PL	54		7/16	59	0 5/8	56 1/2x7/16	59	7 1/4	2	71
4		c	1	PLU	16		1 1/2	38	9 11/16		39	2 1/4	3	72
5		d	1	PLU	16		1 1/2	38	11 13/16		39	2 1/4	3	72
6		f	1	PLU	16		3/4	59	0 13/16		59	4	4	71
7		g	1	PLU	16		3/4	58	10 11/16		59	4	4	71
8		h	2	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
9		s	2	L	7	3 1/4	1/2	0	11	BENT CF 7x4x1/2 L	40	0	36	39
10		t	2	L	7	3 1/4	1/2	0	11	BENT CF 7x4x1/2 L	40	0	36	39
11	c	1am_L*	1/1	BR	7 1/2		3/4	4	6 1/32	MIE, FIE	18	4	24	49
12	c	1b*	2	BR	7		1/2	4	6	F2E	18	4	24	51
13	c	1K*	2	BR	7		1/2	4	6	F2E	18	4	24	51
14	c	2bs*	2	PL	16		7/8	1	0 7/8				J	
15	c	2ab*	1	PLU	13		3/8	4	2	BENT	21	1	24	48
16	c	2ac*	1	PLU	13		3/8	4	2	BENT	21	1	24	48
17	c	2cs*	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
18	c	2ct*	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
19														
20														
21			2	SB	7/8φ			0	2 3/4				M	
22														
23														
24														
25														
26		US2	1	UPPER SHOE						DET. ON DWG. #2				
27			6	325	7/8φ			0	3					
28			13	325	7/8φ			0	2 1/2					
29			24	325	7/8φ			0	3 3/4				M	
30			43	HW	1 3/4	15/16	3/16							
31														
32														
33														
34		FWL	1	WD			5/16	391	4 3/4					
35		FWS	1	WD			5/16	52	0					
36		FW	1	WD			1/2	1	2					
37		SDS	1	WD			7/16	4	6					
38		V60S	1	WD			1/2	2	8					
39		SD	1	WD			9/16	0	8					
40														
41														
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53														
54														
55														

INST.-12W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G12-2	GIRDER (31 1/2 x 59 1/4 x 99'-0")	

APPROVED
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y
BY S. S. Nishimura OCT 15 1969

PAY ITEM - 504.711

DOWELS IN ℞- US2 TO BE PROTECTED DURING SHIPMENT.

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED [illegible] AND REAMED TO SIZE OR [illegible] FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - NP 3

NO BACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE [illegible] ELECTRODES [illegible] FOR WELDING.

[illegible] AT POINT OF [illegible]	[illegible]
TO 3/4" [illegible] [illegible] 1 1/2" [illegible] TO 2 1/2" [illegible] 2 1/2"	[illegible]

MATERIAL A36 STEEL
[redacted] BOLTS 7/8φ
OPEN HOLES 15/16φ
A325 FIELD BOLTS 7/8φ
SHOP CONTACT SURFACES NO PAINT
MILL-AS NOTED
WELD-AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)

GIRDER G12-2

NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

REVISION

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
[redacted] PROJECT. NO I-95-1(22)16
CONT. NO. 3 - NEW HAMPSHIRE APP.
STRUCTURAL-STEEL

BETHLEHEM STEEL CORPORATION

FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY JRP DATE 8-28-69 IN CHARGE B.K. BERTOLET
CHECKED BY CB DATE 9-22-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 234

For location of details shown on this sheet refer to diagrams. GDS

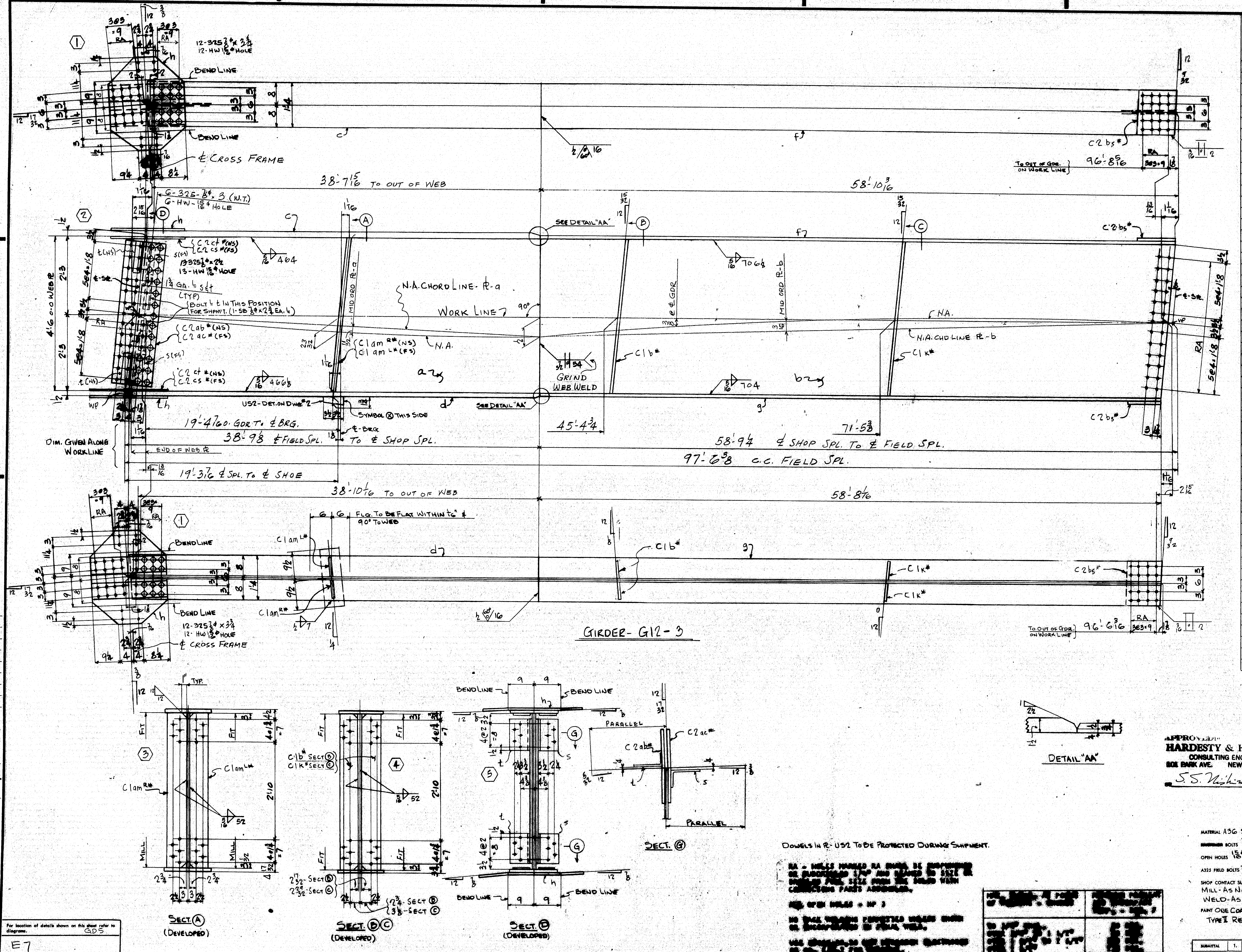
E7

107-35 3

33463 (Rev.C 4-63)

OCT 20 1969

0 1 2 3 4 5 INCHES



DOWELS IN ℞- US2 TO BE PROTECTED DURING SHIPMENT.

[illegible]

	SHOP BILL										MILL ORDER			
LINE	ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	LENGTH FT.	LENGTH IN.	ITEM PAGE	ITEM LINE
1	ONE-GIRDER-G12-3												
2	a	1	PL	54		1/2	38	10 1/16	56 × 1/2	39	6 1/2	2	74
3	b	1	PL	54		7/16	58	10 3/16	56 1/2 × 7/16	59	7 1/4	2	71
4	c	1	PLU	16		1 1/2	38	8 3/16		39	2 1/4	3	72
5	d	1	PLU	16		1 1/2	38	10 5/16		39	2 1/4	3	72
6	f	1	PLU	16		3/4	58	10 3/8		59	4	4	71
7	g	1	PLU	16		3/4	58	8 1/4		59	4	4	71
8	h	2	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
9	s	2	L	7	3 1/4	1/2	0	11	BENT CF 7×4×1/2	40	0	36	39
10	t	2	L	7	3 1/4	1/2	0	11	BENT CF 7×4×1/2	40	0	36	39
11	C 1am R# L#	~~1~~ 1	BR	7 1/2		3/4	4	6 1/32	M1E, F1E	18	4	24	49
12	C 1b#	2	BR	7		1/2	4	6	F2E	18	4	24	51
13	C 1K#	2	BR	7		1/2	4	6	F2E	18	4	24	51
14	C 2bs#	2	PL	16		7/8	1	0 7/8		J			
15	C 2ab#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
16	C 2ac#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
17	C 2cs#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
18	C 2ct#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
19													
20													
21		2	SB	7/8 ⌀			0	2 3/4				M	
22													
23													
24													
25													
26	US2	1	UPPER SHOE						DET. ON DWG. #2				
27		6	325	7/8 ⌀			0	3					
28		13	325	7/8 ⌀			0	2 1/2					
29		24	325	7/8 ⌀			0	3 3/4				M	
30		43	HW	1 3/4	15/16	3/16							
31													
32													
33													
34	FWL	1	WD			5/16	390	1 1/2					
35	FWS	1	WD			5/16	52	0					
36	FW	1	WD			1/2	1	2					
37	SDS	1	WD			7/16	4	6					
38	VGDS	1	WD			1/2	2	8					
39	SD	1	WD			3/16	0	8					
40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													

INST.-12W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G12-3	GIRDER (31 1/2 × 59 1/4 × 98-9 1/2)	

APPROVED
HARDESTY & HANOVER
CONSULTING ENGINEERS
[illegible] PARK AVE. NEW YORK 17, N.Y.
S. S. Nishimura OCT 15 1969

PAY ITEM - 504.711

MATERIAL A36 STEEL
~~[illegible]~~ BOLTS 7/8 ⌀
OPEN HOLES 15/16 ⌀
A325 FIELD BOLTS 7/8 ⌀
SHOP CONTACT SURFACES NO PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-
TYPE II RED LEAD (UN)

REVISION NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

SUBMITTAL	1.	2	3	4	5	6	7	8	9	0
DATE										

GIRDER

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. NO I-95-1(22)16
CONT. NO. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY JRP DATE 8-29-69 IN CHARGE B. K. BERTOLET
CHECKED BY CB DATE 9-22-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 235

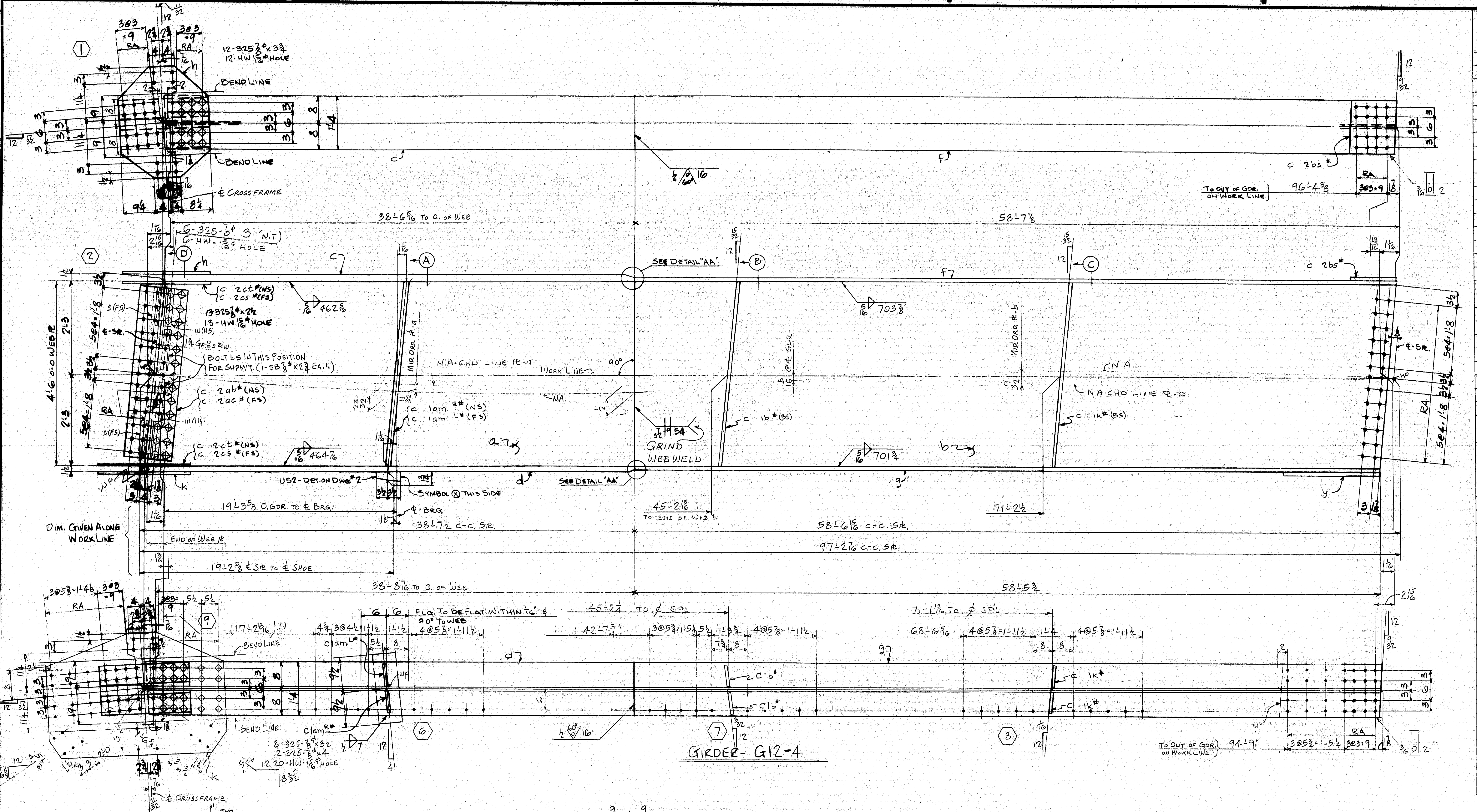
For location of details shown on this sheet refer to diagrams. GDS

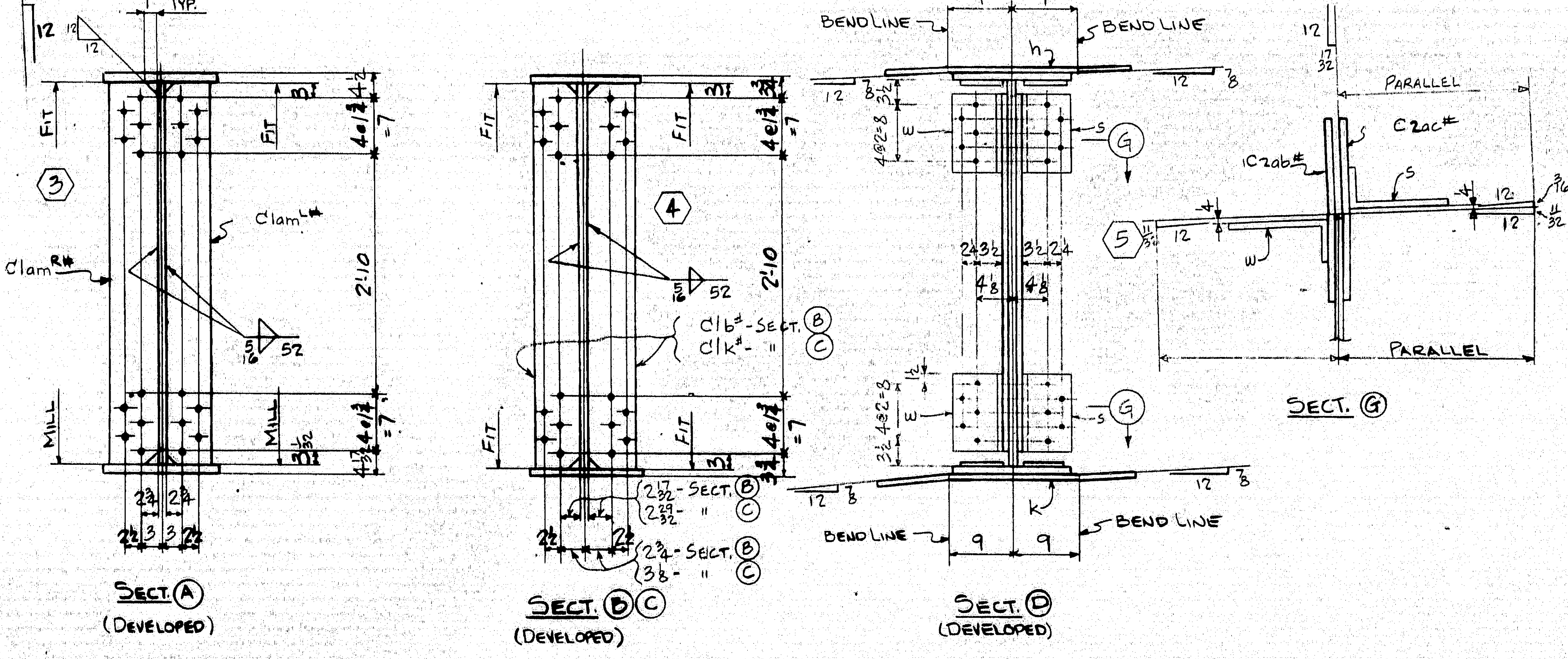
E7

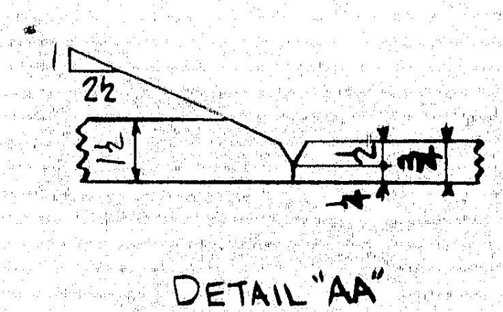
38483 (Rev.C 4-66)

197-34 3 1

OCT 20 1969






DETAIL "AA"

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1		ONE - GIRDER - G12 -4												
2		a	1	PL	54		1/2	38	8 7/16	56 × 1/2	39	6 1/2	2	74
3		b	1	PL	54		7/16	58	7 3/8	56 1/2 × 7/16	59	7 1/4	2	71
4		c	1	PLW	16		1 1/2	38	6 9/16		39	2 1/4	3	72
5		d	1	PLW	16		1 1/2	38	8 11/16					
6		f	1	PLW	16		3/4	58	8 1/16		59	4	4	71
7		g	1	PLW	16		3/4	58	5 15/16					
8		h	1	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
9		k	1	PL	35		5/8	4	4 3/4				J.	
10		s	2	L	7	3 1/4	1/2	0	11	BENT CF-7×4×1/2	40	0	36	39
11		w	2	L	7	3 1/4	1/2	0	11		40	0	36	39
12	c	1am R# L	1 1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
13	c	1b#	2	BR	7		1/2	4	6	F2E	18	4	24	51
14	c	1k#	2	BR	7		1/2	4	6		18	4	24	51
15	c	2bs#	1	PL	16		7/8	1	0 7/8				J	
16	c	2ab#	1	PLW	13		3/8	4	2	BENT	21	1	24	48
17	c	2ac#	1	PLW	13		3/8	4	2		21	1	24	48
18	c	2cs#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
19	c	2ct#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
20														
21		y	1	PL	16		7/8	2	6 1/4				J	
22														
23			2	SB	7/8φ			0	2 3/4				M	
24														
25														
26		US2	1	UPPER SHOE						DET. ON DWG. #2				
27			6	325	7/8φ			0	3					
28			13	325	7/8φ			0	2 1/2					
29			8	325	7/8φ			0	3 1/2					
30			51	HW	1 3/4	15/16	3/16						M	
31			12	325	7/8φ			0	3 3/4					
32			12	325	7/8φ			0	4					
33														
34		FWL	1	WD			5/16	388	8 3/4					
35		FWS	1	WD			5/16	52	0					
36		FW	1	WD			1/2	1	2					
37		SDS	1	WD			7/16	4	6					
38		V60S	1	WD			1/2	2	8					
39		SD	1	WD			3/16	0	[illegible]					
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														

INST.-12W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G12-4	GIRDER (59 1/4 × 35 × 99'-10)	

HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S. S. Nishimura OCT 15 1969

PAY ITEM - 504.711

DOWELS IN R - US2 TO BE PROTECTED DURING SHIPMENT.

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - NP 3

NO TACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE E70[illegible] 28 LOW HYDROGEN ELECTRODES OR GR. SAW-2 FOR WELDING.

MAX. THICKNESS AT POINT OF WELDING - INCHES	MINIMUM PREHEAT AND INTERPASS TEMP. - DEG. F
TO 3/4" INCL.	50 DEG.
OVER 3/4" TO 1 1/2"	70 DEG.
OVER 1 1/2" TO 2 1/2"	150 DEG.
OVER 2 1/2"	225 DEG.

For location of details shown on this sheet refer to diagrams.

GD5 E7

GIRDER - G12-4

MATERIAL A36 STEEL
[redacted] BOLTS 7/8φ
OPEN HOLES 15/16φ
A325 FIELD BOLTS 7/8"φ
SHOP CONTACT SURFACES No PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO - M72 - TYPE II RED LEAD (UN)

NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
D1	1-14-70	2 / C.B

REVISION

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

CUSTOMER
MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
[redacted] PROJECT. No I-95-1(22)16
CONT. No. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL

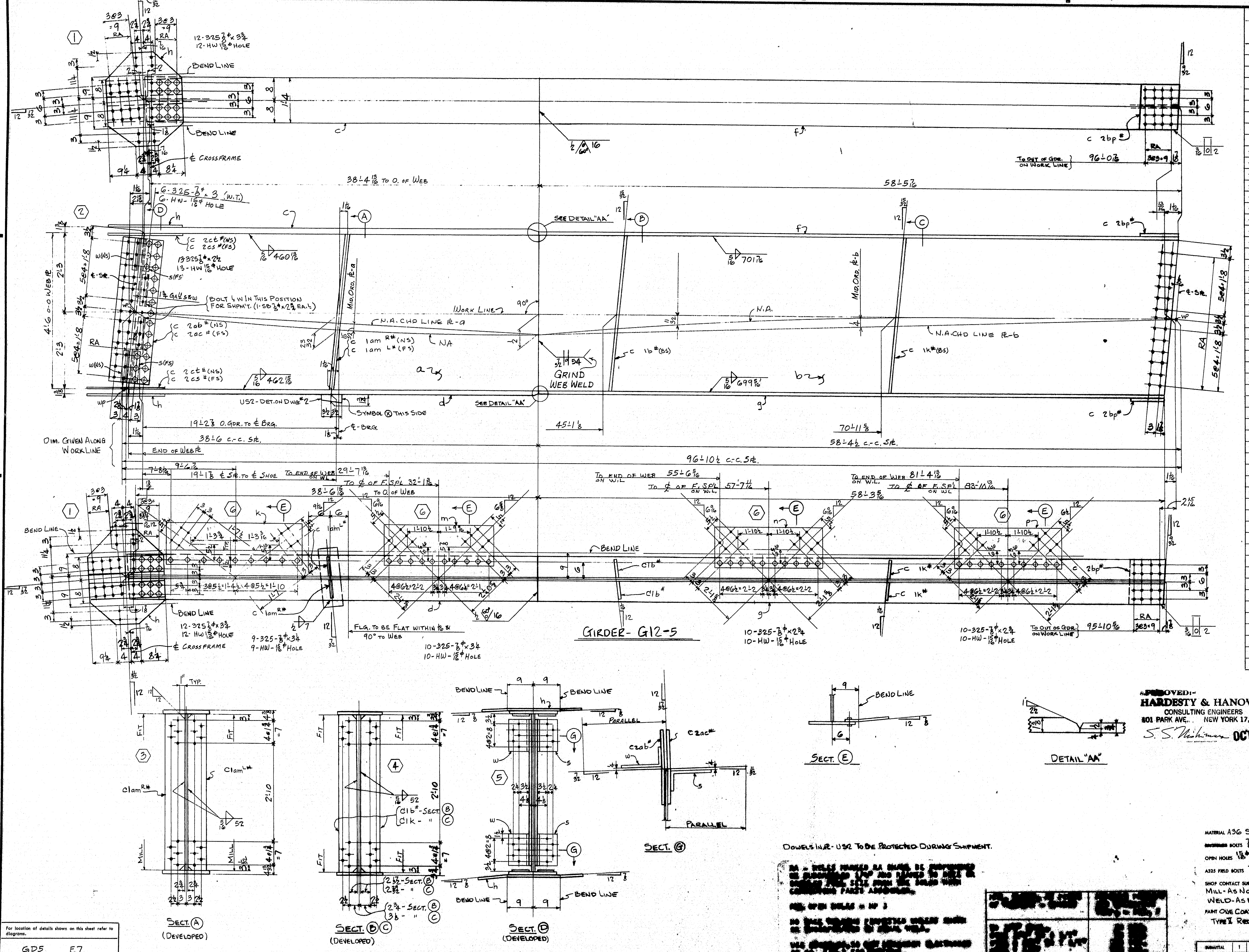
BETHLEHEM STEEL CORPORATION

FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY CCM DATE 8-29-69 IN CHARGE B.K. BERTOLET
CHECKED BY C.B. DATE 9-23-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 236

10737 3 1

35453 (Rev.C 4-65)

OCT 20 19



APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE., NEW YORK 17, N.Y.
S. S. Nishimura OCT 15

INST.-12W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G12-5	GIRDER (59 × 34 3/4 × 98'-1 1/4)	

PAY ITEM - 504.711

SHOP BILL / MILL ORDER

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SIZE OR POUNDS	THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1		ONE-GIRDER-G12-5												
2		a	1	PL	54		1/2	38	6 15/16	56 × 1/2	39	6 1/2	2	74
3		b	1	PL	54		7/16	58	5 7/16	56 1/2 × 7/16	58	10	2	72
4		c	1	PLU	16		1 3/8	38	5 1/16		38	8	3	75
5		d	1	PLU	16		1 3/8	38	7 9/16					
6		f	1	PLU	16		3/4	58	5 5/8		58	6 1/2	4	72
7		g	1	PLU	16		3/4	58	3 1/2					
8		h	2	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
9		k	1	PL	14 1/2		5/8	3	11 1/4	BENT	26	0	28	19
10		m	1	PL	14 1/2		5/8	5	0 1/2		26	0	28	19
11		n	1	PL	14 1/2		5/8	5	1 1/2		26	0	28	19
12		p	1	PL	14 1/2		5/8	5	1 1/2		26	0	28	19
13		s	2	L	7	3 1/4	1/2	0	11	BENT CF 7×4×1/2 L	40	0	36	39
14		w	2	L	7	3 1/4	1/2	0	11		40	0	36	39
15	c	1am R# L	1/1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
16	c	1b#	2	BR	7		1/2	4	6	F2E	18	4	24	51
17	c	1k#	2	BR	7		1/2	4	6		18	4	24	51
18	c	2bp#	2	PL	16		3/4	1	0 7/8		20	0	24	43
19	c	2cs#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
20	c	2ct#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
21	c	2ab#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
22	c	2ac#	1	PLU	13		3/8	4	2		21	1	24	48
23														
24			2	SB	7/8φ			0	2 3/4				M	
25														
26		US2	1	UPPER SHOE						DET. ON DWG. #2				
27			20	325	7/8φ			0	2 3/4					
28			13	325	7/8φ			0	2 1/2					
29			19	325	7/8φ			0	3 1/4				M	
30			82	HW	1 3/4	15/16	5/16							
31			24	325	7/8φ			0	3 3/4					
32			6	325	7/8φ			0	3					
33														
34		FWL	1	WD			5/16	387	5					
35		FWS	1	WD			5/16	52	0					
36		FW	1	WD			1/2	1	2					
37		SDS	1	WD			7/16	4	6					
38		V60S	1	WD			1/2	2	8					
39		SD	1	WD			3/16	0	8					

DOWELS IN R - US2 TO BE PROTECTED DURING SHIPMENT.

RA - HOLES MARKED RA SHALL BE [illegible] PARTS ASSEMBLED.

[illegible] OPEN HOLES = NO 3

[illegible]

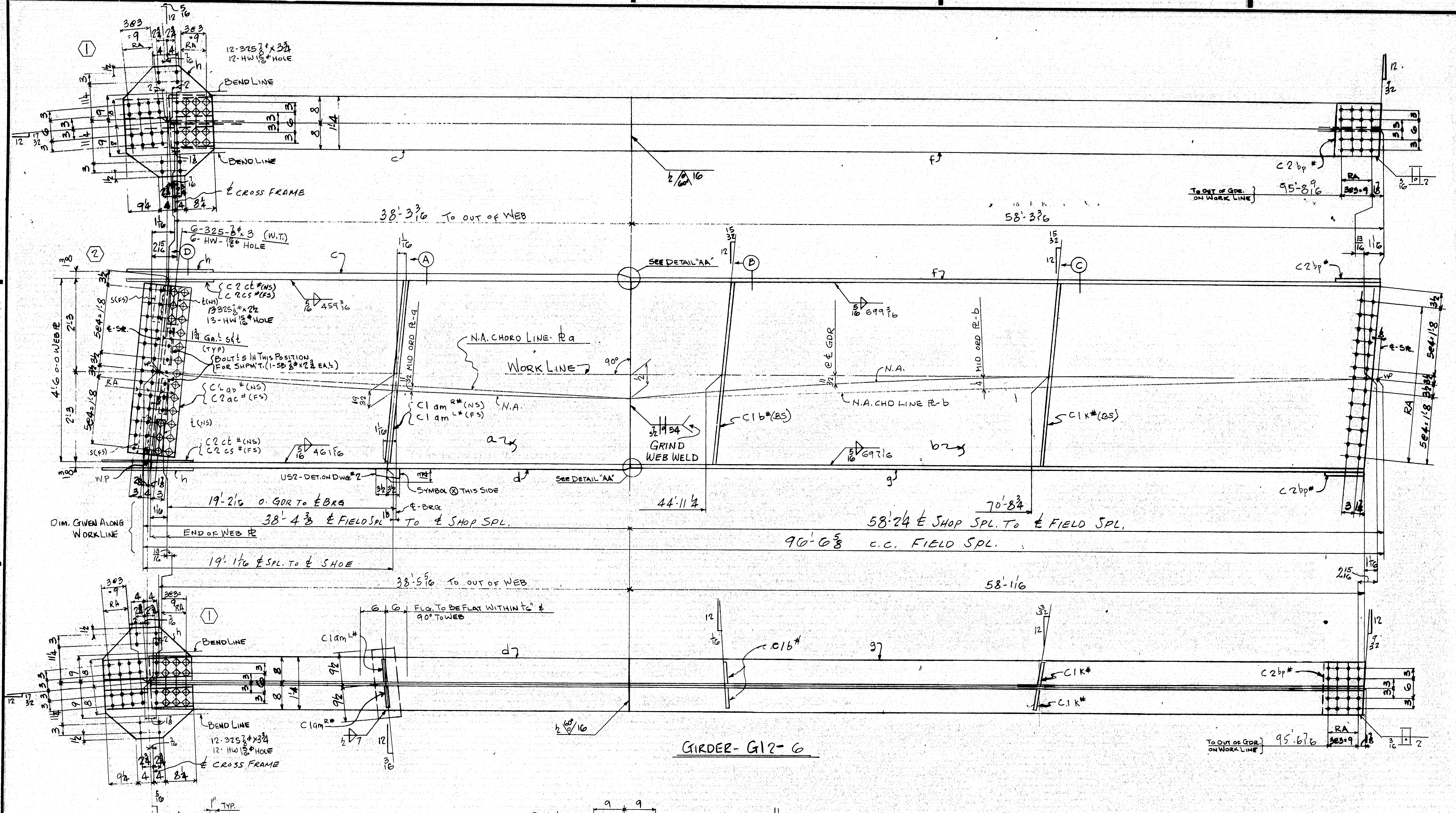
MATERIAL A36 STEEL
[illegible] BOLTS 7/8φ
OPEN HOLES 15/16φ
A325 FIELD BOLTS 7/8"φ
SHOP CONTACT SURFACES No PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)

For location of details shown on this sheet refer to diagrams.
GD5 E7

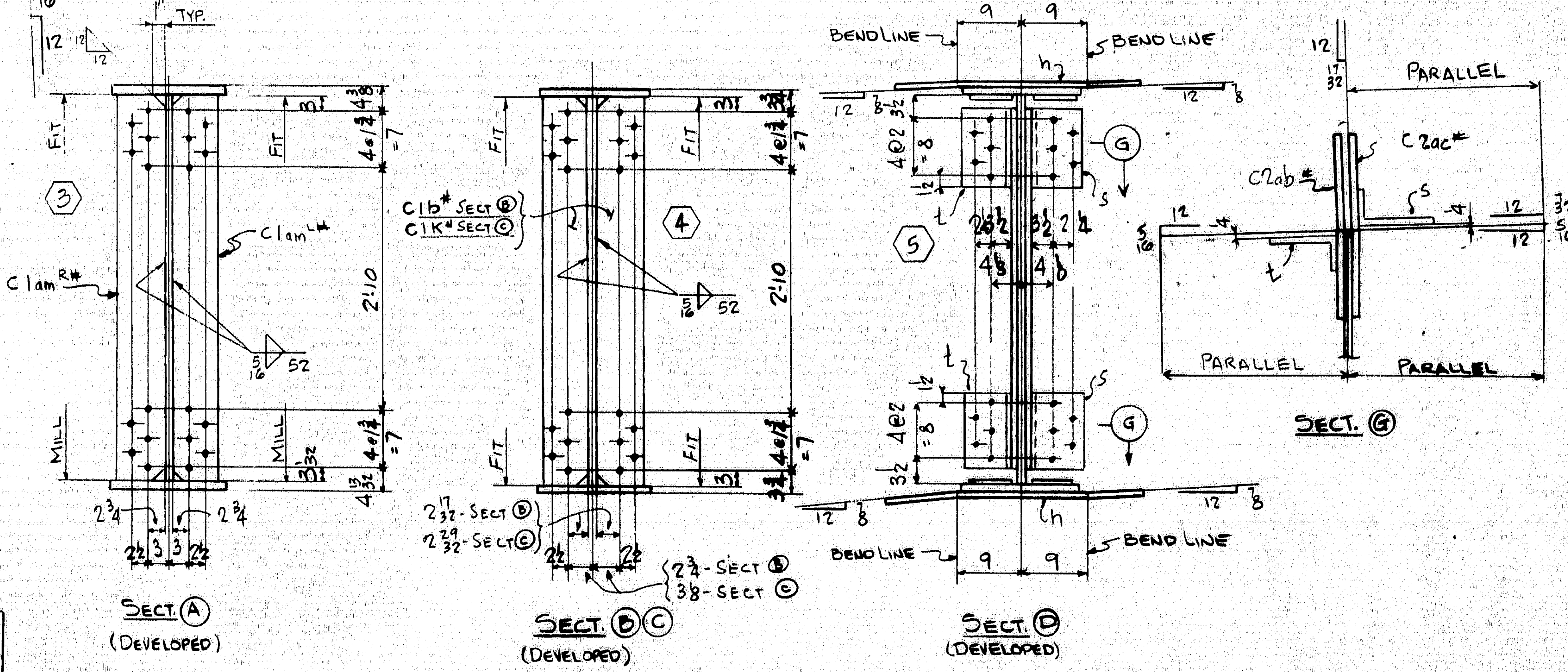
GIRDER-G12-5

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. No I-95-1(22)16
CONT. No. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN
MADE BY CGM DATE 9-3-69
CHECKED BY CB DATE 9-22-69
CONTRACT [illegible] DRAWING NO. 237

107-38 3



GIRDER- G12-6

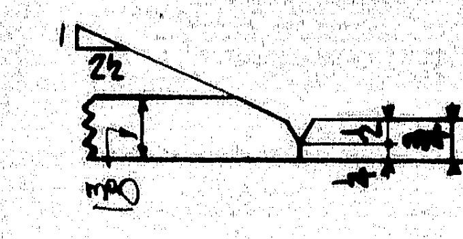


SECT. Ⓐ (DEVELOPED)

SECT. ⒷⒸ (DEVELOPED)

SECT. Ⓓ (DEVELOPED)

SECT. Ⓖ



DETAIL "AA"

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	PAGE	
1		ONE GIRDER - G12 - 6												
2		a	1	PL	54		1/2	38	5 9/16	56 x 1/2	39	6 1/2	2	74
3		b	1	PL	54		9/16	58	3 3/16	56 1/2 x 9/16	58	10	2	72
4		c	1	PLU	16		1 3/8	38	3 7/16		38	8	3	75
5		d	1	PLU	16		1 3/8	38	5 9/16		38	8	3	75
6		f	1	PLU	16		3/4	58	3 3/8		58	6 1/2	4	72
7		g	1	PLU	16		3/4	58	1 1/4		58	6 1/2	4	72
8		h	2	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
9		s	2	L	7	3 1/4	1/2	0	11	BENT CF 7 x 4 x 1/2 L	40	0	36	39
10		t	2	L	7	3 1/4	1/2	0	11	BENT CF 7 x 4 x 1/2 L	40	0	36	39
11	c	1am R# L	1/1	BR	7 1/2		3/4	4	6 3/32	MIE, FIE	18	4	24	49
12	c	1b#	2	BR	7		1/2	4	6	F2E	18	4	24	51
13	c	1K#	2	BR	7		1/2	4	6	F2E	18	4	24	51
14	c	2bp#	2	PL	16		3/4	1	0 7/8		20	0	24	43
15	c	2ab#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
16	c	2ac#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
17	c	2cs#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
18	c	2ct#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
19														
20			2	SB	7/8 φ			0	2 3/4				M	
21														
22														
23														
24														
25														
26		US2	1	UPPER SHOE						DET. ON DWG. #2				
27			6	325	7/8 φ			0	3					
28			13	325	7/8 φ			0	2 1/2					
29			24	325	7/8 φ			0	3 3/4				M	
30			43	HW	1 3/4	15/16	3/16							
31														
32														
33														
34		FWL	1	WD			5/16	386	1 1/2					
35		FWS	1	WD			5/16	52	0					
36		FW	1	WD			1/2	1	2					
37		SDS	1	WD			7/16	4	6					
38		V60S	1	WD			1/2	2	8					
39		SD	1	WD			3/16	0	8					
40														
41														
42														
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53														
54														
55														

INST.-12W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G12-6	GIRDER (31 1/2 x 59 1/4 x 97'-10)	

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S. S. Nishimura OCT 15 1969

PAY ITEM - 504.711

DOWELS IN ℞-US2 TO BE PROTECTED DURING SHIPMENT.

[illegible]

[illegible]

MATERIAL A36 STEEL
BOLTS 7/8φ
OPEN HOLES 15/16φ
A325 FIELD BOLTS 7/8φ
SHOP CONTACT SURFACES NO PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)

For location of details shown on this sheet refer to diagrams.

E7

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

NO.	DATE	INIT.
0		
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8		
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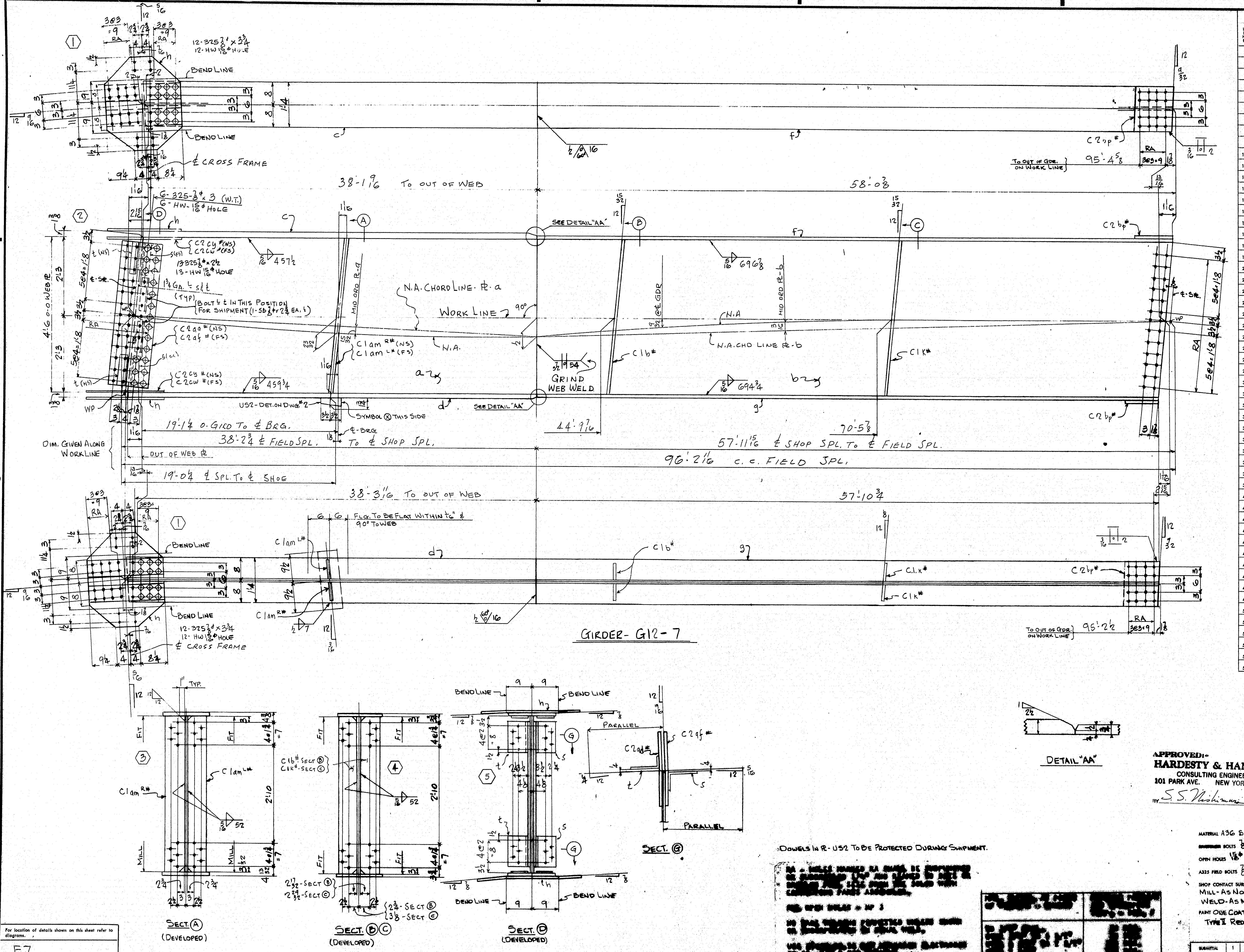
6		
5		
4		
3		
2		
1		

REVISION

GIRDER G12-6

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. NO I-95-1(22)16
CONT. NO. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN
MADE BY JRP DATE 9-3-69
CHECKED BY CB DATE 9-22-69
CONTRACT CT-[illegible] DRAWING NO. 238

107-39 3



LINE	ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	MILL ORDER ITEM PAGE	MILL ORDER ITEM LINE
1		ONE-GIRDER-G12-7											
2	a	1	PL	54		1/2	38	3 11/16	56×1/2	39	6 1/2	2	74
3	b	1	PL	54		7/16	58	0 7/8	56 1/2×7/16	58	10	2	72
4	c	1	PLU	16		1 3/8	38	1 3/4		38	8	3	75
5	d	1	PLU	16		1 3/8	38	3 7/8	Recd 38'-6 1/2	38	8	3	75A
6	f	1	PLU	16		3/4	58	1 1/16		58	6 1/2	4	72
7	g	1	PLU	16		3/4	57	10 15/16		58	6 1/2	4	72
8	h	2	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
9	s	2	L	7	3 1/4	1/2	0	11	BENT CF 7×4×1/2 L	40	0	36	39
10	t	2	L	7	3 1/4	1/2	0	11	BENT CF 7×4×1/2 L	40	0	36	39
11	c 1am R# L	1/1	BR	7 1/2		3/4	4	6 3/32	MIE, FIE	18	4	24	49
12	c 1b#	2	BR	7		1/2	4	6	F2E	18	4	24	51
13	c 1k#	2	BR	7		1/2	4	6	F2E	18	4	24	51
14	c 2bp#	2	PL	16		3/4	1	0 7/8		20	0	24	43
15	c 2ad#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
16	c 2af#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
17	c 2cw#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
18	c 2cy#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
19													
20													
21		2	SB	7/8 ϕ			0	2 3/4				M	
22													
23													
24													
25													
26	US2	1	UPPER SHOE						DET. ON DWG #2				
27		6	325	7/8 ϕ			0	3					
28		13	325	7/8 ϕ			0	2 1/2					
29		24	325	7/8 ϕ			0	3 3/4				M	
30		43	HW	1 3/4	15/16	5/16							
31													
32													
33													
34	FWL	1	WD			5/16	384	9 3/4					
35	FWS	1	WD			5/16	52	0					
36	FW	1	WD			1/2	1	2					
37	SDS	1	WD			7/16	4	6					
38	V60S	1	WD			1/2	2	8					
39	SD	1	WD			3/16	0	8					
40													
41													
42													
43													
44													
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48													
49													
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52													
53													
54													
55													

INST.-1.2-W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G12-7	GIRDER (31 1/2 × 59 1/2 × 97'-5)	

DOWELS IN R-US2 TO BE PROTECTED DURING SHIPMENT.

[illegible]

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S. S. Nishimura OCT 15 1969

PAY ITEM - 504.711

MATERIAL A36 STEEL
BOLTS 7/8 ϕ
OPEN HOLES 15/16 ϕ
A325 FIELD BOLTS 7/8 ϕ
SHOP CONTACT SURFACES NO PAINT
MILL-AS NOTED
WELD-AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN).

REVISION NO.	DATE	INT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

GIRDER - G12-7

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT No I-95-1(82)16
CONT. No. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN
MADE BY JRP DATE IN CHARGE [illegible]
CHECKED BY C.B. DATE 7-22-69 SHEET NO. [illegible]
CONTRACT CT-[illegible] DRAWING NO. 239

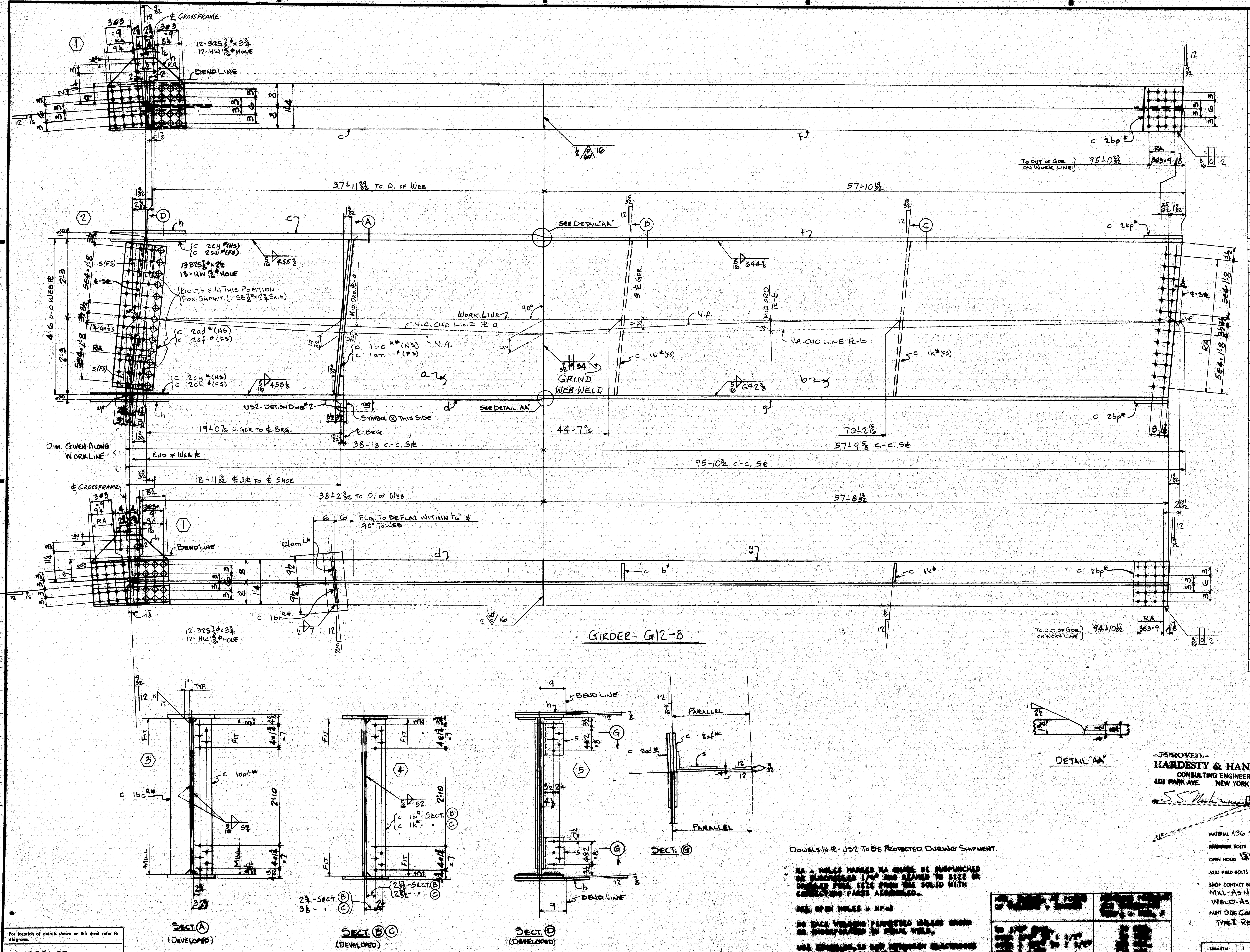
For location of details shown on this sheet refer to diagrams.

E7

107-40 3

OCT 2[illegible]

0 1 2 3 4 5 INCHES



LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SIZE OR POUNDS	THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1			ONE- GIRDER- G12 -8											
2		a	1	PL	54		1/2	38	2 1/8	56 × 1/2	39	6 1/2	2	74
3		b	1	PL	54		7/16	57	10 5/8	56 1/2 × 7/16	58	10	2	72
4		c	1	PLU	16		1 3/8	38	0 1/8		38	8	3	75
5		d	1	PLU	16		1 3/8	38	2 5/16					
6		f	1	PLU	16		3/4	57	10 13/16		58	6 1/2	4	72
7		g	1	PLU	16		3/4	57	8 5/8					
8		h	2	PL	25 1/2		1/2	1	11 3/4	BENT	22	4	24	45
9		s	2	∠	7	3 1/4	1/2	0	11	BENT CF-7×4×1/2	40	0	36	39
10	c	1bc^R#	1	BR	7 1/2		3/4	4	6 1/2	MIE FIE	18	4	24	49
11	c	1am^L#	1	BR	7 1/2		3/4	4	6 1/2	MIE FIE	18	4	24	49
12	c	1b#	1	BR	7		1/2	4	6	F2E	18	4	24	51
13	c	1k#	1	BR	7		1/2	4	6	F2E	18	4	24	51
14	c	2bp#	2	PL	16		3/4	1	0 7/8		20	0	24	43
15	c	2ad#	1	PLW	13		3/8	4	2	BENT	21	1	24	48
16	c	2af#	1	PLW	13		3/8	4	2	BENT	21	1	24	48
17	c	2cy#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
18	c	2cw#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
19														
20			2	SB	7/8⌀			0	2 3/4				M	
21														
22														
23														
24														
25														
26		US2	1	UPPER SHOE						DET. ON DWG. #2				
27														
28			13	325	7/8⌀			0	2 1/2					
29			24	325	7/8⌀			0	3 3/4				M	
30			37	HW	1 3/4	15/16	3/16							
31														
32														
33														
34		FWL	1	WD			5/16	383	6					
35		FWS	1	WD			5/16	34	8					
36		FW	1	WD			1/2	1	2					
37		SDS	1	WD			7/16	4	6					
38		VGDS	1	WD			1/2	2	8					
39		SD	1	WD			3/16	0	8					
40														
41														
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51														
52														
53														
54														
55														

INST.-12W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G12-8	GIRDER (59 × 25 1/4 × 97'- 2 1/8)	

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S. S. Nishimura OCT 15 1969

PAY ITEM - 504.711

DOWELS IN Pt - US2 TO BE PROTECTED DURING SHIPMENT.

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES = NP-3

NO TACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE [illegible] LOW HYDROGEN ELECTRODES OR [illegible] FOR WELDING.

[illegible]

MATERIAL A36 STEEL
BOLTS 7/8"⌀
OPEN HOLES 15/16"⌀
A325 FIELD BOLTS - 7/8"⌀
SHOP CONTACT SURFACES NO PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

REVISION NO.	DATE	INIT.
0		
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5		
4		
3		
2		
1		

GIRDER - G12-8

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. No I-95-1(22)16
CONT. No. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY CCM DATE 8-26-69 IN CHARGE B. K. BERTOLET
CHECKED BY CB DATE 9-23-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 240

For location of details shown on this sheet refer to diagrams.

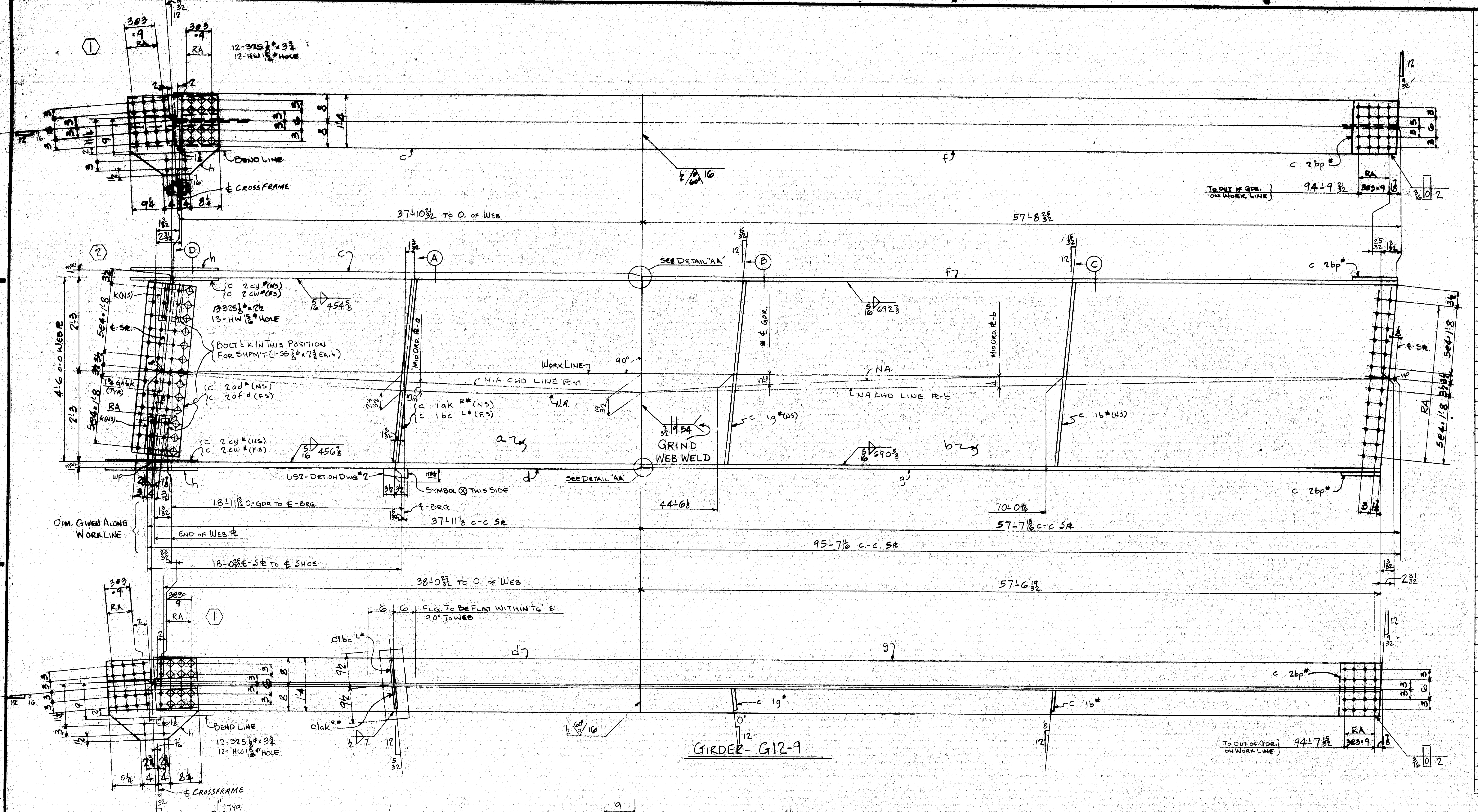
GDS E7

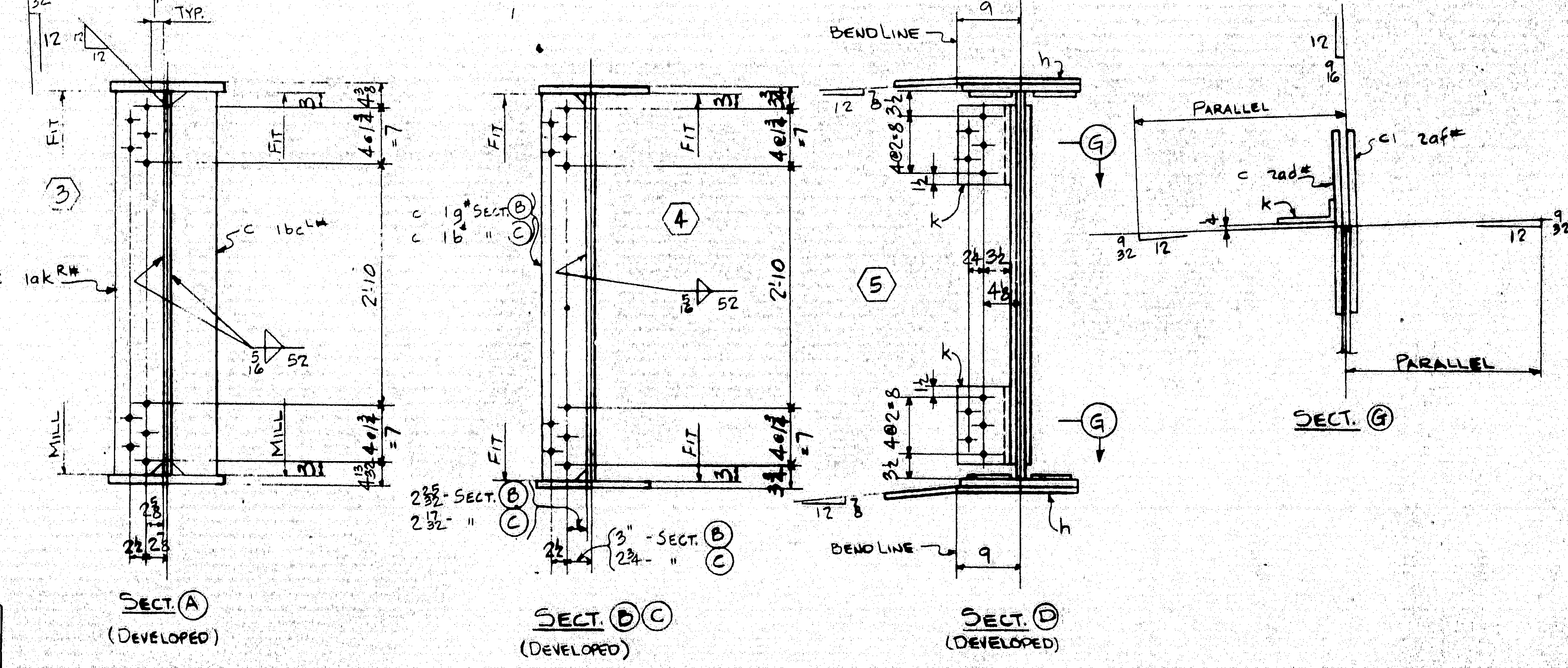
107- 41 3 1

33433 (Rev.C 4-68)

OCT 20 1969

8.4



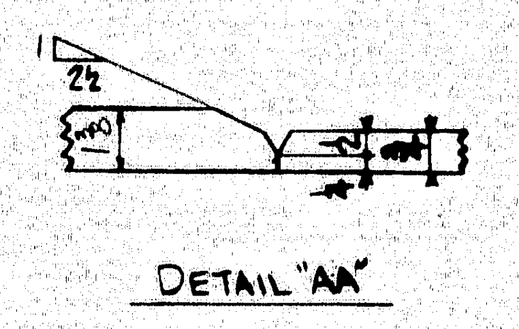


SECT. (A)
(DEVELOPED)

SECT. (B)(C)
(DEVELOPED)

SECT. (D)
(DEVELOPED)

SECT. (G)


DETAIL "AA"

SHOP BILL

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SIZE OR POUNDS	THICK	LENGTH FT.	LENGTH IN.	REMARKS	LENGTH FT.	LENGTH IN.	[illegible]	[illegible]
1		ONE-GIRDER-G12-9												
2		a	1	PL	54		½	38	0⅞	56 × ½	38	5¼	2	[illegible]
3		b	1	PL	54		7/16	57	8 13/16	56½ × 7/16	58	10	2	[illegible]
4		c	1	PLU	16		1⅜	37	10⅜		38	2	3	[illegible]
5		d	1	PLU	16		1⅜	38	1 1/16					
6		f	1	PLU	16		¾	57	9		57	9¾	4	[illegible]
7		g	1	PLU	16		¾	57	6 13/16					
8		h	2	PL	25½		½	1	11¼	BENT	22	4	24	45
9		k	2	L	7	3½	½	0	11	BENT CF 7×4×½	40	0	36	39
10	c	1ak R*	1	BR	7½		¾	4	6 1/32	MIE FIE	18	4	24	49
11	c	1bc L*	1	BR	7½		¾	4	6 1/32	MIE FIE	18	4	24	49
12	c	1b*	1	BR	7		½	4	6	F2E	18	4	24	51
13	c	1g*	1	BR	7		½	4	6	F2E	18	4	24	51
14	c	2bp*	2	PL	16		¾	1	0⅞		20	0	24	43
15	c	2ad*	1	PW	13		⅜	4	2	BENT	21	1	24	48
16	c	2af*	1	PW	13		⅜	4	2	BENT	21	1	24	48
17	c	2cw*	2	BR	6½		½	2	1½		19	0	24	50
18	c	2cy	2	BR	6½		½	2	1½		19	0	24	50
19														
20														
21			2	SB	⅞φ			0	2¾				M	
22														
23														
24														
25														
26		US2	1	UPPER SHOE						DET. ON DWG #2				
27														
28			13	325	⅞φ			0	2½					
29			24	325	⅞φ			0	3¾				M	
30			37	HW	1¾	15/16	3/16							
31														
32														
33														
34		FWL	1	WD			5/16	382	6					
35		FWS	1	WD			5/16	34	8					
36		FW	1	WD			½	1	2					
37		SOS	1	WD			7/16	4	6					
38		VGOS	1	WD			½	2	8					
39		SD	1	WD			3/16	0	8					
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

INST.-12E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G12-9	GIRDER (59⅛ × 25¼ × 96'-11¼)	

APPROVED
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S.S. Nishimura OCT 15 1969

PAY ITEM - 504.711

DOWELS IN R-US2 TO BE PROTECTED DURING SHIPMENT.

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - NP 3

NO TACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE E7016, 18, 28 LOW HYDROGEN ELECTRODES OR GR. SAW-2 FOR WELDING.

[illegible]	[illegible]
[illegible]	[illegible]

MATERIAL A36 STEEL
[illegible] BOLTS ⅞φ
OPEN HOLES 15/16φ
A325 FIELD BOLTS ⅞φ
SHOP CONTACT SURFACES No PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE I RED LEAD (UN)

GIRDER - G12-9

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. No I-95-1(22)16
CONT. No. 3 - NEW HAMPSHIRE APR.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY CCM DATE 8-25-69 IN CHARGE B.K. BERTOLET
CHECKED BY C.B. DATE 9-23-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 241

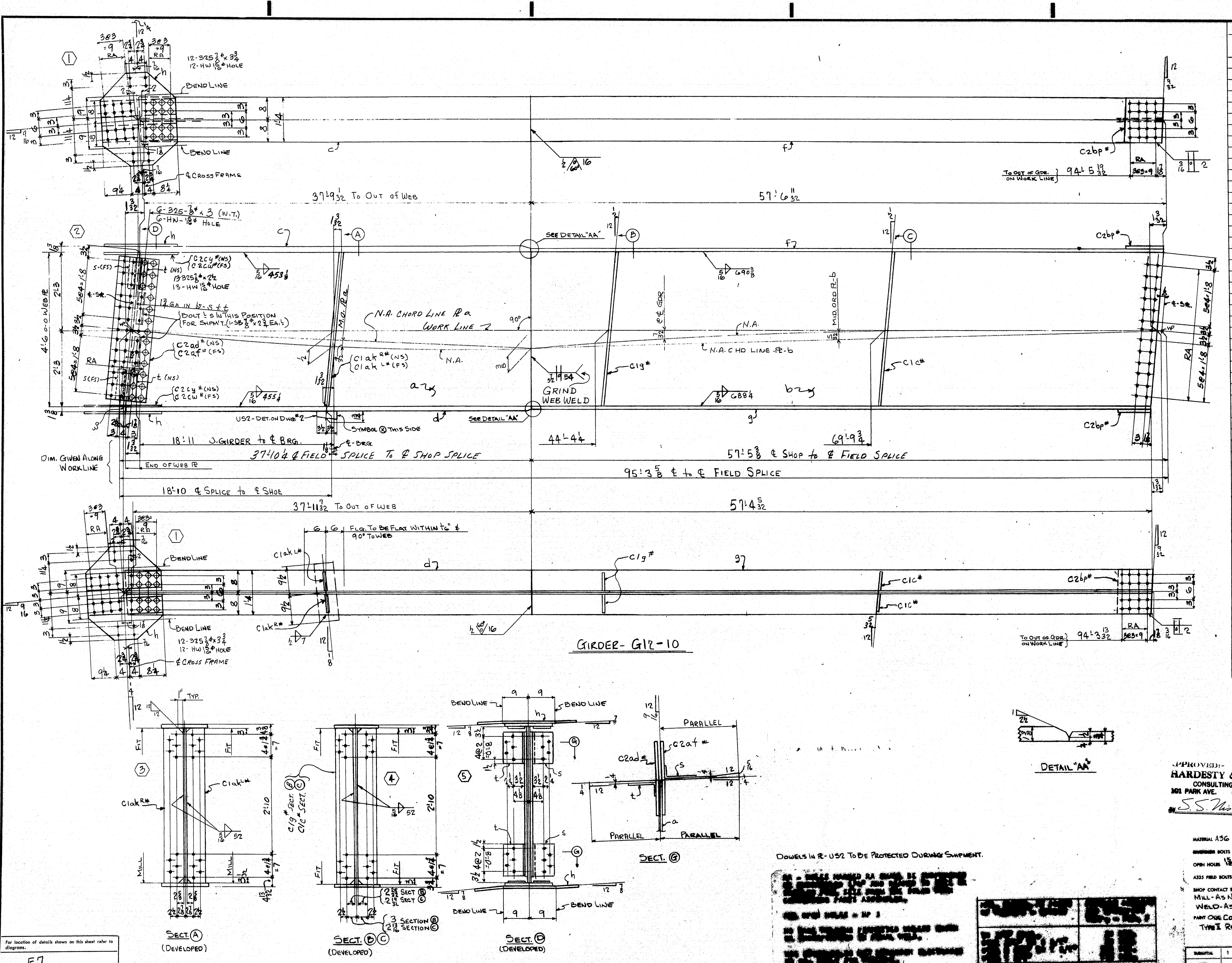
REVISION NO.	DATE	INIT.
9		
8		
7		
6		
5		
4		
3		
2		
1		
0		

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

For location of details shown on this sheet refer to diagram.

GD5 E7

3 1 107-4.2



DOWELS IN R-US2 TO BE PROTECTED DURING SHIPMENT.

LINE	ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1		ONE-GIRDER-G12-10											
2	a	1	PL	54		1/2	37	11¼	56 x 1/2	38	5¼	2	75
3	b	1	PL	54		7/16	57	6 3/8	56½ x 7/16	57	10¾	2	73
4	c	1	PLU	16		1 3/8	37	9 3/16		38	2	3	76
5	d	1	PLU	16		1 3/8	37	11 7/16		38	2	3	76
6	f	1	PLU	16		3/4	57	6 9/16		57	9¾	4	73
7	g	1	PLU	16		3/4	57	4 3/8		57	9¾	4	73
8	h	2	PL	25½		1/2	2	7½	BENT	22	4	24	45
9	s	2	L	7	3¼	1/2	0	11	BENT C.F. 7x4x½	40	0	36	39
10	t	2	L	7	3¼	1/2	0	11	BENT C.F. 7x4x½	40	0	36	39
11	c 1akR/L#	2	BR	7½		3/4	4	6½	MIE FIE	18	4	24	49
12	c 1g#	2	BR	7		1/2	4	6	F2E	18	4	24	51
13	c 1c#	2	BR	7		1/2	4	6	F2E	18	4	24	51
14	c 2cy#	2	BR	6½		1/2	2	1½		19	0	24	50
15	c 2cw#	2	BR	6½		1/2	2	1½		19	0	24	50
16	c 2ad#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
17	c 2af#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
18	c 2bp#	2	PL	16		3/4	1	0 7/8		20	0	24	43
19													
20													
21		2	SB	7/8φ			0	2¾		M			
22													
23													
24													
25													
26	US2	1	UPPER SHOE						DET. ON DWG. #2				
27		6	325	7/8φ			0	3					
28		13	325	7/8φ			0	2½					
29		24	325	7/8φ			0	3¾		M			
30		43	HW	1¾	15/16	3/16							
31													
32													
33	SD	1	WD			3/16	0	8					
34	FWL	1	WD			5/16	381	2					
35	FWS	1	WD			5/16	52	0					
36	FW	1	WD			1/2	1	2					
37	SDS	1	WD			7/16	4	6					
38	V60S	1	WD			1/2	2	8					
39													
40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													

INST.-12E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G12-10	GIRDER (3'-1½ x 59¼ x 96'-6¾)	

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S. S. Nishimura OCT 15 1969

PAY ITEM - 504.711

GIRDER - G12-10

MATERIAL A36 STEEL
BOLTS 7/8φ
OPEN HOLES 15/16φ
A325 FIELD BOLTS 7/8φ
SHOP CONTACT SURFACES NO PAINT
MILL-AS NOTED
WELD-AS NOTED
PAINT ONE COAT AASHO-M72-TYPE I RED LEAD (UN)

REVISION NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

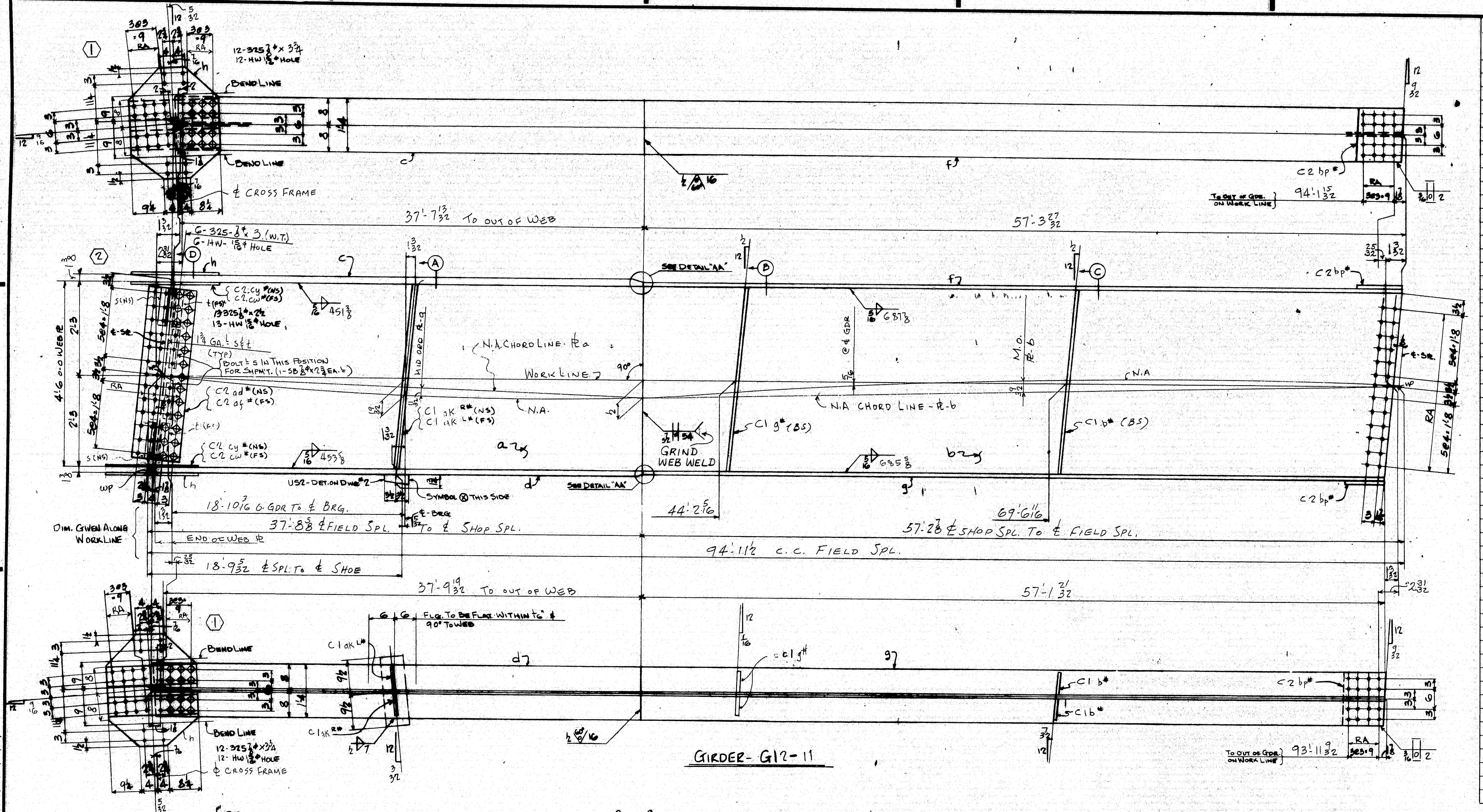
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. NO I-95-1(22)16
CONT. NO. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED AND ERECTED
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY KIRK DATE 9-5-69 IN CHARGE [illegible]
CHECKED BY CB DATE 9-19-69 SHEET NO. [illegible]
CONTRACT [illegible] DRAWING NO. 242

For location of details shown on this sheet refer to diagrams.

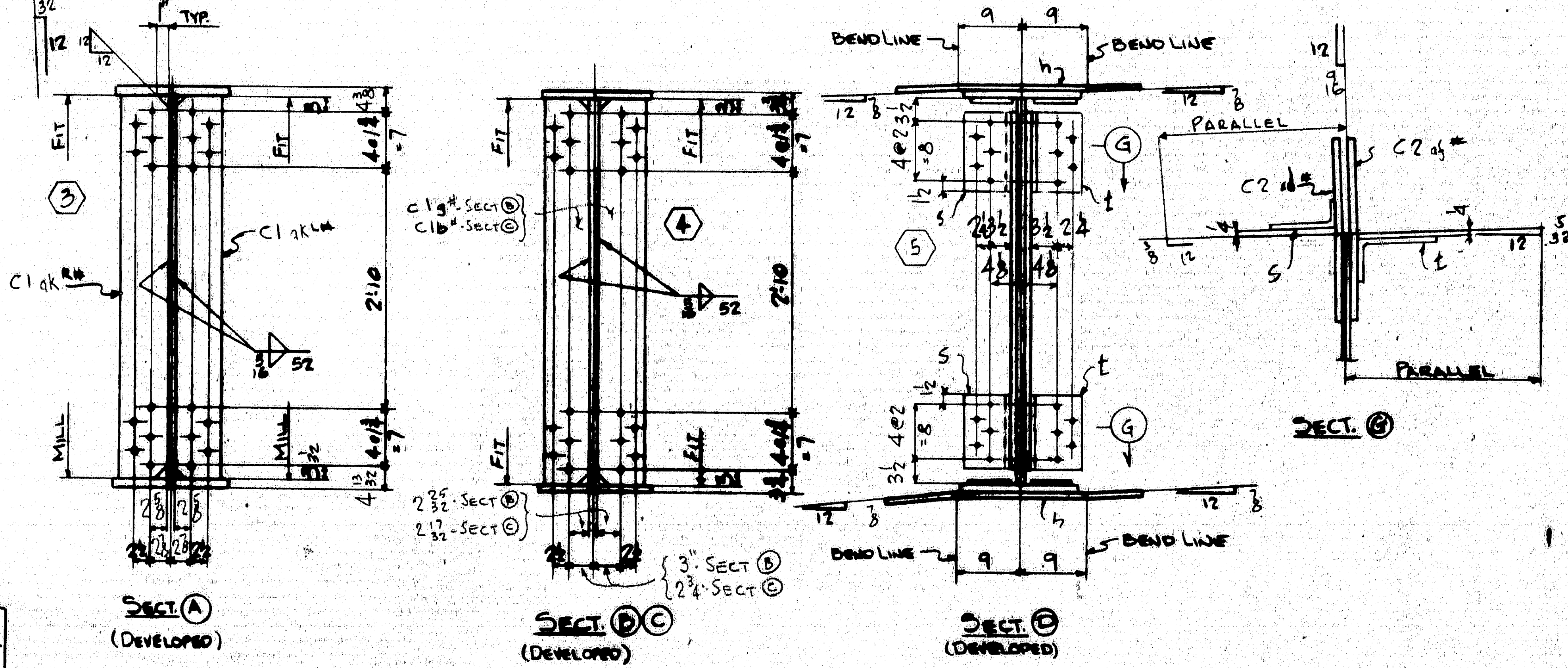
E7

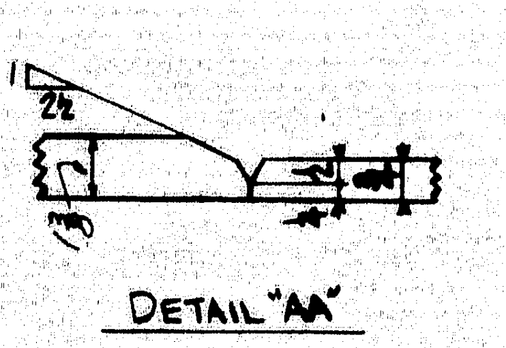
3

1.07-43



GIRDER- G12-11





DETAIL "AA"

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	MILL ORDER ITEM PAGE	MILL ORDER ITEM LINE
1		ONE-GIRDER-G12-11												
2		a	1	PL	54		1/2	37	9 19/32	56 × 1/2	38	5 1/4	2	75
3		b	1	PL	54		7/16	57	3 27/32	56 1/2 × 7/16	57	10 3/4	2	73
4		c	1	PLU	16		1 3/8	37	7 17/32		38	2	3	76
5		d	1	PLU	16		1 3/8	37	9 23/32		38	2	3	76
6		f	1	PLU	16		3/4	57	4 3/32		57	9 3/4	4	73
7		g	1	PLU	16		3/4	57	1 27/32		57	9 3/4	4	73
8		h	2	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
9		s	2	L	7	3 1/4	1/2	0	11	BENT CF 7×4×1/2	40	0	36	39
10		t	2	L	7	3 1/4	1/2	0	11	BENT CF 7×4×1/2	40	0	36	39
11	c	1ak L R#	1/1	BR	7 1/2		3/4	4	6 1/32	MIE, FIE	18	4	24	49
12	c	1b#	2	BR	7		1/2	4	6	F2E	18	4	24	51
13	c	1g#	2	BR	7		1/2	4	6	F2E	18	4	24	51
14	c	2bp#	2	PL	16		3/4	1	0 7/8		20	0	24	43
15	c	2ad#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
16	c	2af#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
17	c	2cw#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
18	c	2cy#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
19														
20														
21			2	SB	7/8φ			0	2 3/4				M	
22														
23														
24														
25														
26		US2	1	UPPER SHOE						DET. ON DWG. #2				
27			6	325	7/8φ			0	3					
28			13	325	7/8φ			0	2 1/2					
29			24	325	7/8φ			0	3 3/4				M	
30			43	HW	1 3/4	15/16	3/16							
31														
32														
33														
34		FWL	1	WD			5/16	379	9					
35		FWS	1	WD			5/16	52	0					
36		FW	1	WD			1/2	1	2					
37		SDS	1	WD			7/16	4	6					
38		VGOS	1	WD			1/2	2	8					
39		SD	1	WD			3/16	0	8					

INST.-12E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G12-11	GIRDER (31 1/2 × 59 1/8 × 96-2 7/8)	

APPROVED
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S.S. Nishimura OCT 15 1969

PAY ITEM - 504.711

DOWELS IN ℞-US2 TO BE PROTECTED DURING SHIPMENT.

[redacted]

[redacted]

MATERIAL A36 STEEL
BOLTS 7/8φ
OPEN HOLES 15/16φ
A325 FIELD BOLTS 7/8φ
SHOP CONTACT SURFACES NO PAINT
MILL-AS NOTED
WELD-AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

REVISION NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

GIRDER- G12-11

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. NO I-95-1(22)16
CONT. NO. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL

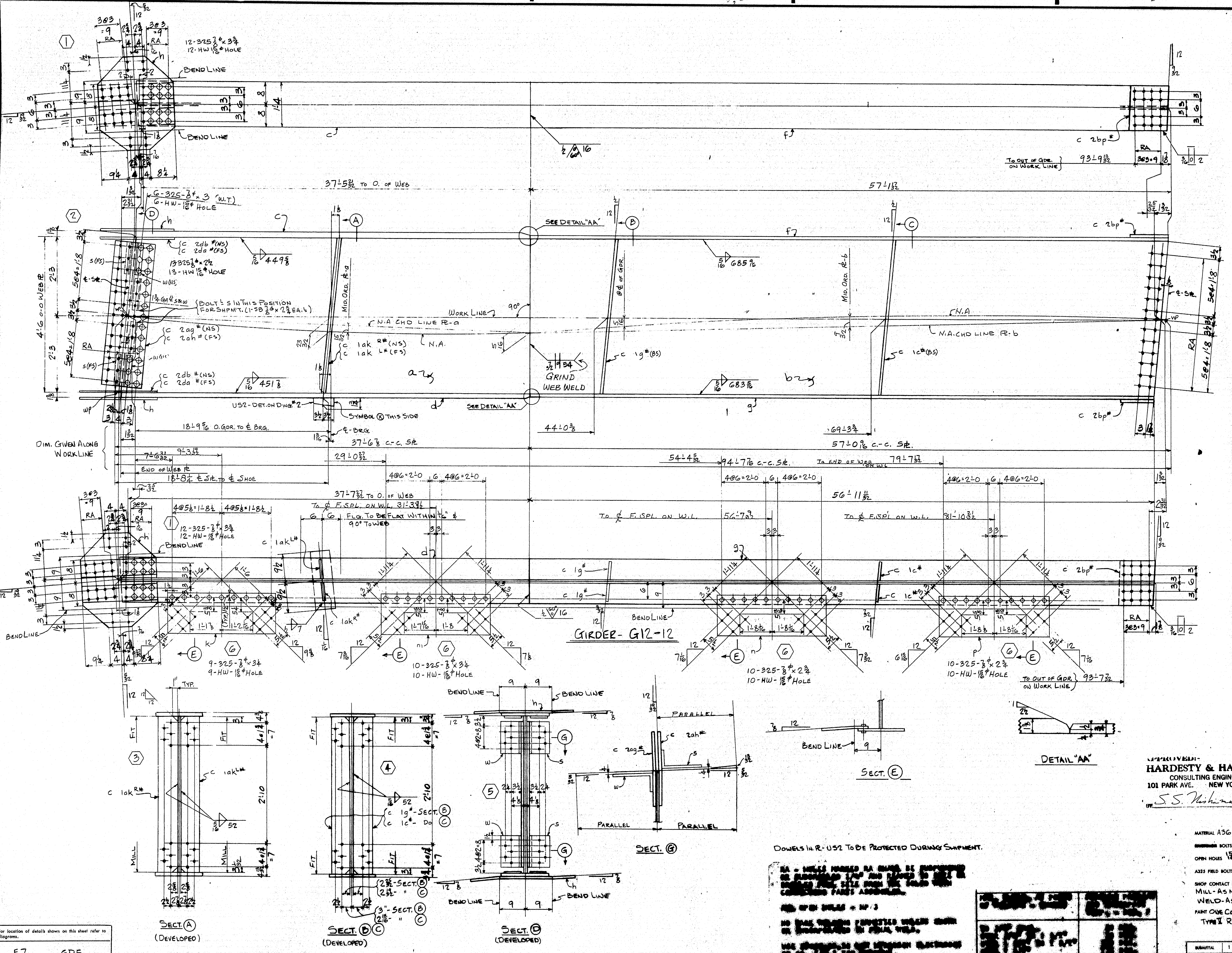
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY JRP DATE 9-5-69 IN CHARGE B.K. BERTOLET
CHECKED BY CB DATE 9-22-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 243

For location of details shown on this sheet refer to diagrams.

E7

107-44

OCT 20



DOWELS IN R-U52 TO BE PROTECTED DURING SHIPMENT.

[illegible]

For location of details shown on this sheet refer to diagrams.

E7 GD5

LINE	ASSEMBLY MARK		NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1		ONE-GIRDER-G12-12												
2		a	1	PL	54		½	37	7⅞	56 × ½	38	5¼	2	75
3		b	1	PL	54		7/16	57	1 9/16	56½ × 7/16	57	10¾	2	73
4		c	1	PLW	16		1⅜	37	5 5/32		38	2	3	76
5		d	1	PLW	16		1⅜	37	8					
6		f	1	PLW	16		¾	57	1¾		57	9¾	4	73
7		g	1	PLW	16		¾	56	11½					
8		h	2	PL	25½		½	2	7½	BENT	22	4	24	45
9		k	1	PL	14½		⅝	3	8	BENT	26	0	28	19
10		m	1	PL	14½		⅝	4	9		26	0	28	19
11		n	1	PL	14½		⅝	4	9		26	0	28	19
12		p	1	PL	14½		⅝	4	9		26	0	28	19
13	c	1ak R/L #	1/1	BR	7½		¾	4	6 1/32	MIE FIE	18	4	24	49
14	c	1c#	2	BR	7		½	4	6	F2E	18	4	24	51
15	c	1g#	2	BR	7		½	4	6		18	4	24	51
16	c	2bp#	2	PL	16		¾	1	0⅞		20	0	24	43
17	c	2da#	2	BR	6½		½	2	1½		19	0	24	50
18	c	2db#	2	BR	6½		½	2	1½		19	0	24	50
19	c	2ag#	1	PLW	13		⅜	4	2	BENT	21	1	24	48
20	c	2ah#	1	PLW	13		⅜	4	2		21	1	24	48
21		s	2	L	7	3¼	½	0	11	BENT CF-7×4×½"	40	0	36	39
22		w	2	L	7	3¼	½	0	11		40	0	36	39
23														
24			2	SB	⅞φ			0	2¾				M	
25														
26		U52	1	UPPER SHOE						DET. ON DWG. #2				
27			20	325	⅞φ			0	2¾					
28			13	325	⅞φ			0	2½					
29			19	325	⅞φ			0	3¼				M	
30			82	HW	1¾	15/16	3/16							
31			24	325	⅞"φ			0	3¾					
32			6	325	⅞φ			0	3					
33														
34		FWL	1	WD			5/16	378	4¾					
35		FWS	1	WD			5/16	52	0					
36		FW	1	WD			½	1	2					
37		SDS	1	WD			7/16	4	6					
38		VGOS	1	WD			½	2	8					
39		SD	1	WD			3/16	0	8					
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

INST.-12E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G12-12	GIRDER (59⅛ × 34¾ × 95'-10¾)	

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S. S. Nishimura OCT 15 1969

PAY ITEM - 504.711

MATERIAL A36 STEEL
BOLTS ⅞φ
OPEN HOLES 15/16φ
A325 FIELD BOLTS - ⅞"φ
SHOP CONTACT SURFACES NO PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)

GIRDER - G12-12

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. No I-95-1(22)16
CONT. No. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN
MADE BY CCM DATE 9-5-69 IN CHARGE D.K. [illegible]
CHECKED BY C.B. DATE 9-23-69 SHOP NO. [illegible]
CONTRACT CJ-[illegible] DRAWING NO. 244

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

NO.	DATE	INIT.
0		
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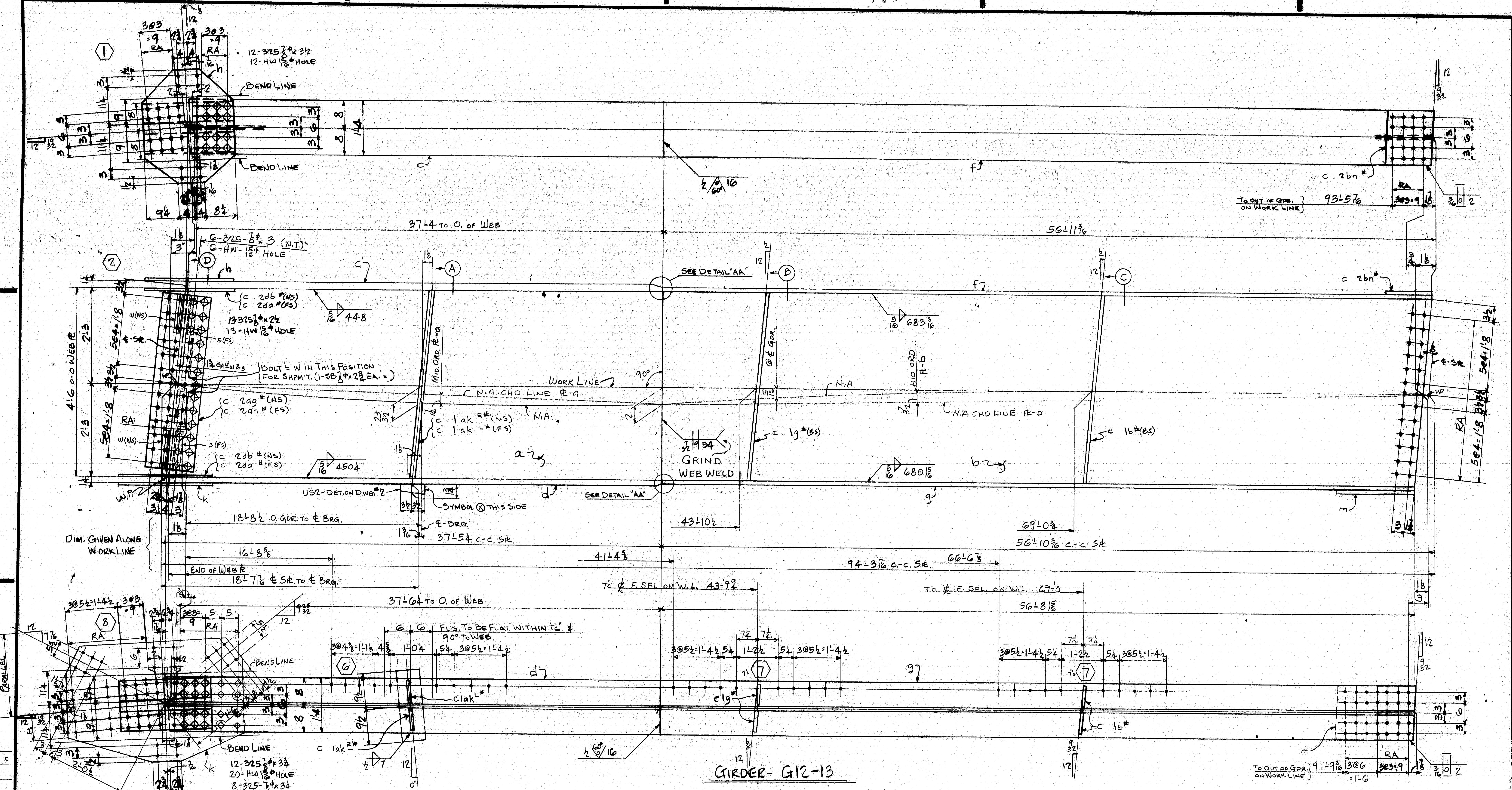
REVISION		

3 1

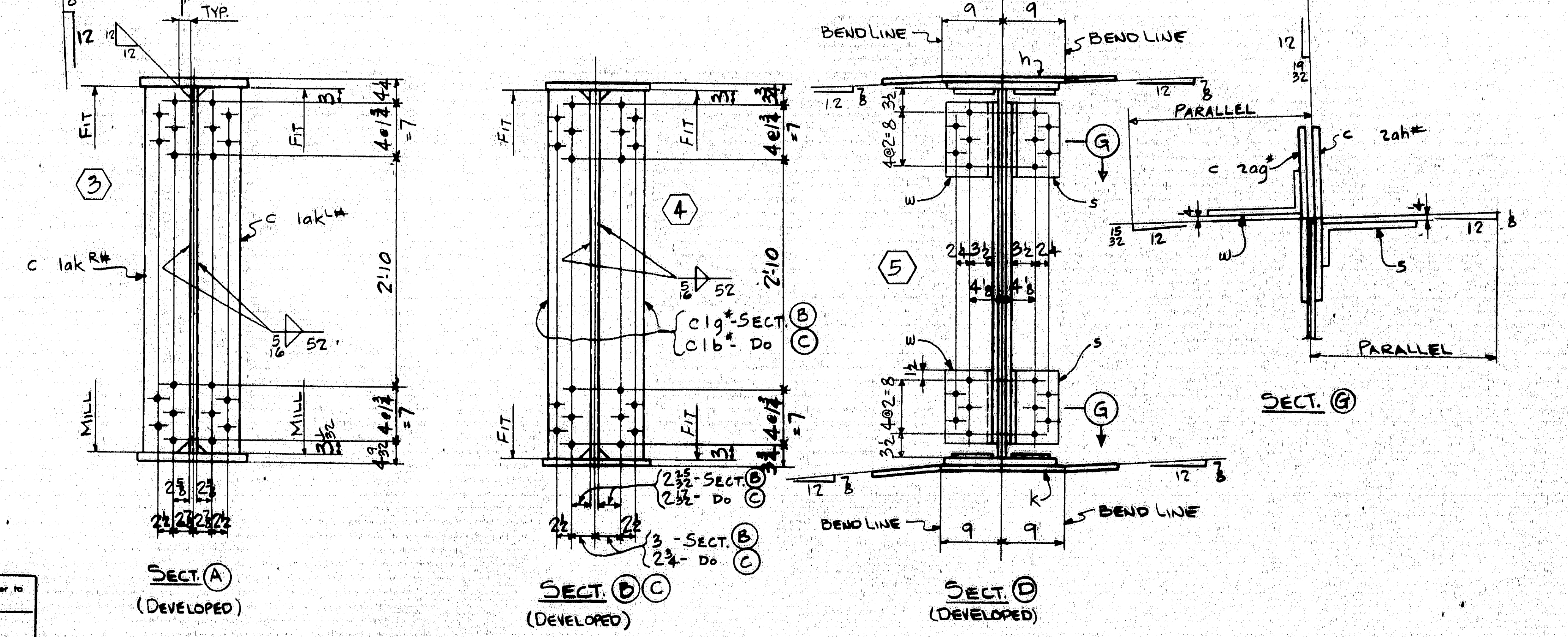
107-46

OCT 20 [illegible]

INCHES 0 1 2 3 4 5



GIRDER-G12-13

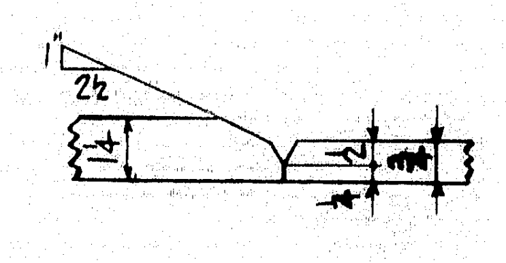


Sect. Ⓐ (Developed)

Sect. Ⓑ Ⓒ (Developed)

Sect. Ⓓ (Developed)

Sect. Ⓖ



Detail "AA"

	a	b	c
a			
b			
c			
d			
f			
g			
h			
k			
m			
n			
p			
s			
t			
w			
y			

For location of details shown on this sheet refer to diagrams.

E7 GD5

SHOP BILL

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	MILL ORDER ITEM PAGE	MILL ORDER ITEM LINE
1			ONE-GIRDER-G12-13											
2		a	1	PL	54		1/2	37	6 1/4	56 × 1/2	38	5 1/4	2	75
3		b	1	PL	54		9/16	56	11 3/16	56 1/2 × 9/16	57	10 3/4	2	73
4		c	1	PLU	16		1 1/4	37	4 1/8		37	7 1/4	3	78
5		d	1	PLU	16		1 1/4	37	6 3/8					
6		f	1	PLU	16		3/4	56	11 3/8		57	1	4	74
7		g	1	PLU	16		3/4	56	9 1/8					
8		h	1	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
9		k	1	PL	34 3/4		5/8	4	4	36 × 5/8 MULTS	4	4 1/4	28	17
10		m	1	PL	16		5/8	2	7 1/8				J	
11		s	2	L	7	3 1/4	1/2	0	11	BENT CF-7×4×1/2 L	40	0	36	39
12		w	2	L	7	3 1/4	1/2	0	11		40	0	36	39
13	c	1ak R L #	1 / 1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
14	c	1g #	2	BR	7		1/2	4	6	F2E	18	4	24	51
15	c	1b #	2	BR	7		1/2	4	6		18	4	24	51
16	c	2db #	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
17	c	2da #	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
18	c	2ag #	1	PLU	13		3/8	4	2	BENT	21	1	24	48
19	c	2ah #	1	PLU	13		3/8	4	2		21	1	24	48
20	c	2bn #	1	PL	16		5/8	1	0 7/8				J	
21														
22														
23			2	SB	7/8 ϕ			0	2 3/4				M	
24														
25														
26		US2	1	UPPER SHOE						DET. ON DWG. #2				
27			8	325	7/8 ϕ			0	3 1/4					
28			13	325	7/8 ϕ			0	2 1/2					
29			12	325	7/8 ϕ			0	3 1/2				M	
30			51	HW	1 3/4	15/16	3/16							
31			12	325	7/8 ϕ			0	3 3/4					
32			6	325	3/4 ϕ			0	3					
33														
34		FWL	1	WD			5/16	377	0 3/4					
35		FWS	1	WD			5/16	52	0					
36		FW	1	WD			1/2	1	2					
37		SDS	1	WD			7/16	4	6					
38		V60S	1	WD			1/2	2	8					
39		SD	1	WD			3/16	0	8					
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

INST.-12E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G12-13	GIRDER (58 3/4 × 34 3/4 × 96-11 1/2)	

DOWELS IN R-US2 TO BE PROTECTED DURING SHIPMENT.

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - NP 3

NO TACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE E7016, 18, 28 LOW HYDROGEN ELECTRODES OR GR. SAW-2 FOR WELDING.

[illegible] AT POINT OF WELDING - INCHES	[illegible] PREHEAT [illegible] DEG. F
TO 3/4" INCL.	50 DEG.
OVER 3/4" TO 1 1/2"	70 DEG.
OVER 1 1/2" TO 2 1/2"	150 DEG.
OVER 2 1/2"	225 DEG.

APPROVED
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S. S. Nishimura OCT 15 1969

PAY ITEM - 504.711

MATERIAL A36 STEEL
BOLTS 7/8 ϕ
OPEN HOLES 15/16 ϕ
A325 FIELD BOLTS 7/8" ϕ
SHOP CONTACT SURFACES NO PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

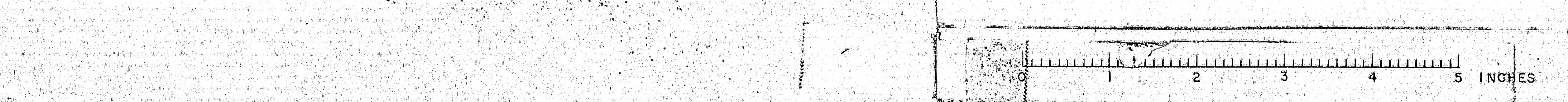
REVISION NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

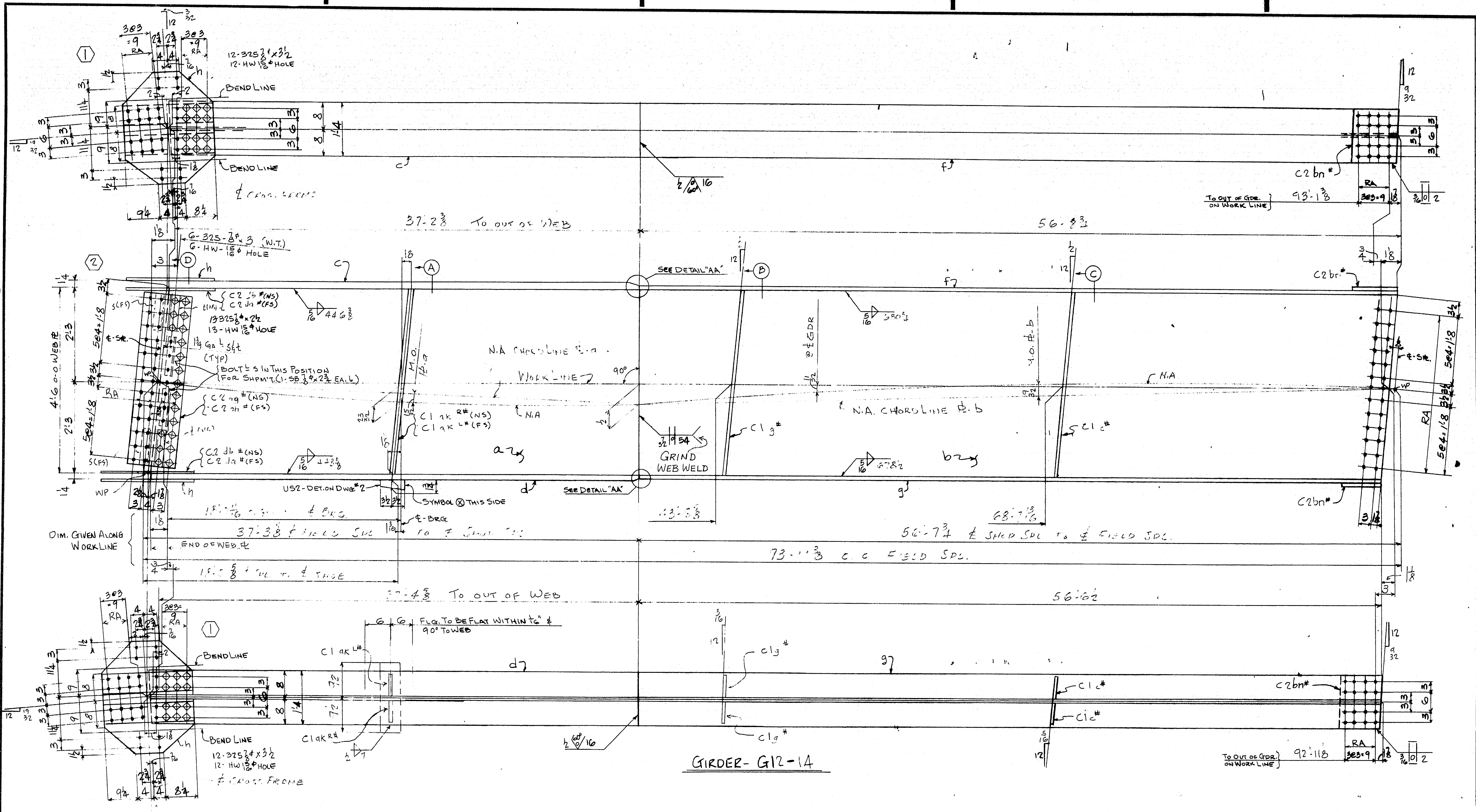
GIRDER-G12-13

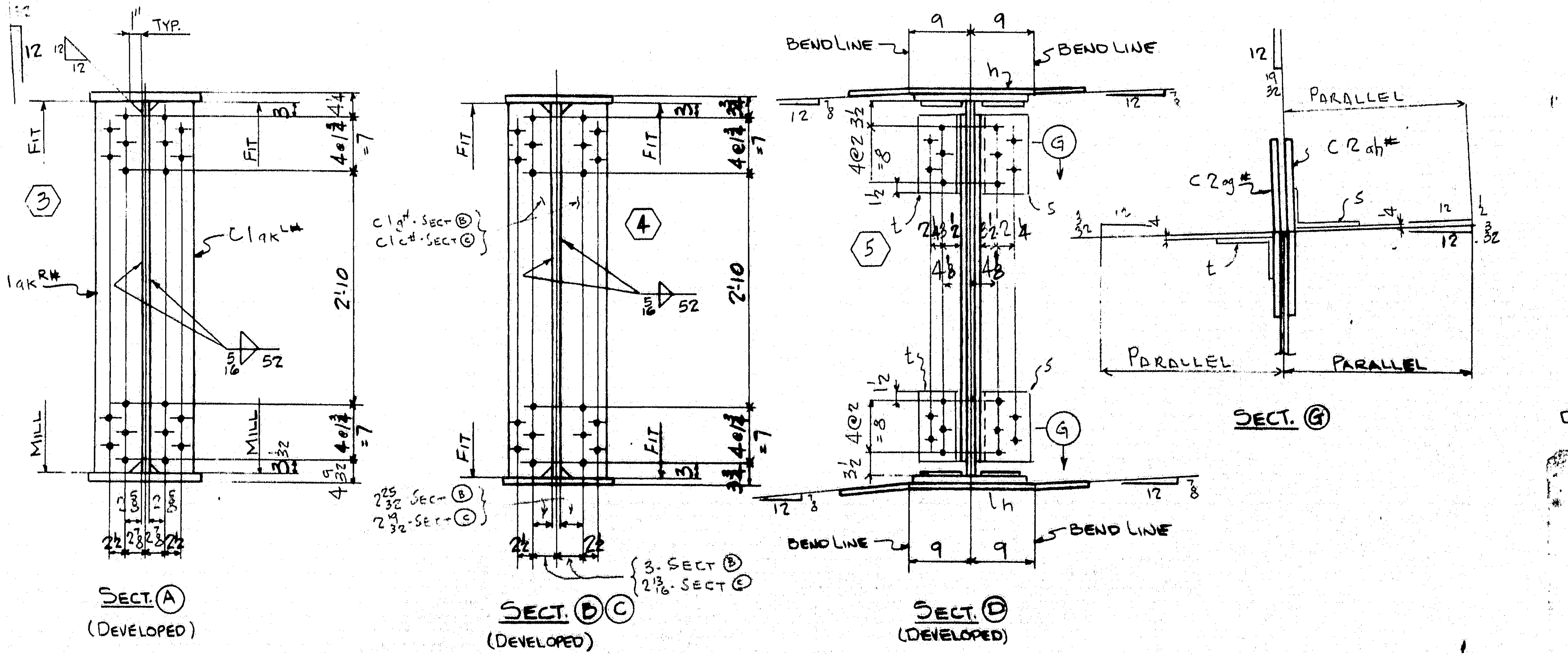
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. NO I-95-1(22)16
CONT. NO. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY CCM DATE 9-9-69 IN CHARGE B. K. [illegible]
CHECKED BY CB DATE 9-22-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 245

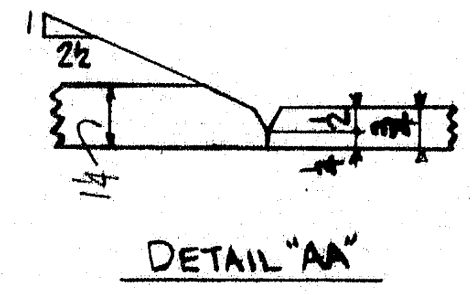
3 1 107-46

OCT 20








DETAIL "AA"

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1		ONE-GIRDER-G12-14												
2		a	1	PL	54		1/2	37	4 5/8	56 X 1/2	38	5 1/4	2	15
3		b	1	PL	54		7/16	56	8 3/4	56 1/2 X 7/16	57	10 3/4	2	73
4		c.	1	PLU	16		1 1/4	37	2 7/16		37	7 1/4	3	78
5		d	1	PLU	16		1 1/4	37	4 1/16		37	7 1/4	3	78
6		f	1	PLU	16		3/4	56	8 15/16		57	1	4	74
7		g	1	PLU	16		3/4	56	6 11/16		57	1	4	74
8		h	2	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
9		s	2	L	7	3 1/4	1/2	0	11	BENT CF 7x4x1/2 L	40	0	36	39
10		t	2	L	7	3 1/4	1/2	0	11	BENT CF 7x4x1/2 L	40	0	36	39
11	C	1ak L R#	1/1	BR	7 1/2		3/4	4	6 1/32	F2E, M2E	18	4	24	49
12	C	1g#	2	BR	7		1/2	4	6	F2E	18	4	24	51
13	C	1c#	2	BR	7		1/2	4	6	F2E	18	4	24	51
14	C	2bn#	2	PL	16		5/8	1	0 7/8				J	
15	C	2ag#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
16	C	2ah#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
17	C	2da#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
18	C	2db#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
19														
20														
21			2	SB	7/8 ϕ			0	2 3/4				M	
22														
23														
24														
25														
26		US2	1	UPPER SHOE						DET. ON DWG. #2				
27			6	325	7/8 ϕ			0	3					
28			13	325	7/8 ϕ			0	2 1/2					
29			24	325	7/8 ϕ			0	3 3/4				M	
30			43	HW	1 3/4	15/16	5/16							
31														
32														
33														
34		FWL	1	WD			5/16	375	8 1/2					
35		FWS	1	WD			5/16	52	0					
36		FW	1	WD			1/2	1	2					
37		SDS	1	WD			7/16	4	6					
38		VGOS	1	WD			1/2	2	8					
39		SD	1	WD			3/16	0	8					
40														
41														
42														
43														
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51														
52														
53														
54														
55														

INST.-1.2 E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G12-14	GIRDER (31 1/2 x 58 7/8 x 95'-2 13/16)	

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S. S. [illegible] NOV 25 1969

PAY ITEM - 504.711

DOWELS IN R-US2 TO BE PROTECTED DURING SHIPMENT.

RA - [illegible]

[illegible]

MATERIAL A36 STEEL
[illegible] BOLTS 7/8 ϕ
OPEN HOLES 15/16 ϕ
A325 FIELD BOLTS 7/8 ϕ
SHOP CONTACT SURFACES NO PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-
TYPE II RED LEAD (UN)

NO.	DATE	INT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

REVISION

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

GIRDER G12-14

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. NO I-95-1(22)16
CONT. NO. 3 - NEW HAMPSHIRE [illegible]
STRUCTUAL STEEL

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY JRP DATE 9-8-69 IN CHARGE D. K. [illegible]
CHECKED BY C.B. DATE 9-22-69 SHOP NO. [illegible]
CONTRACT CJ-6[illegible] DRAWING NO. 246

For location of details shown on this sheet refer to diagrams.

E7

3

107-47