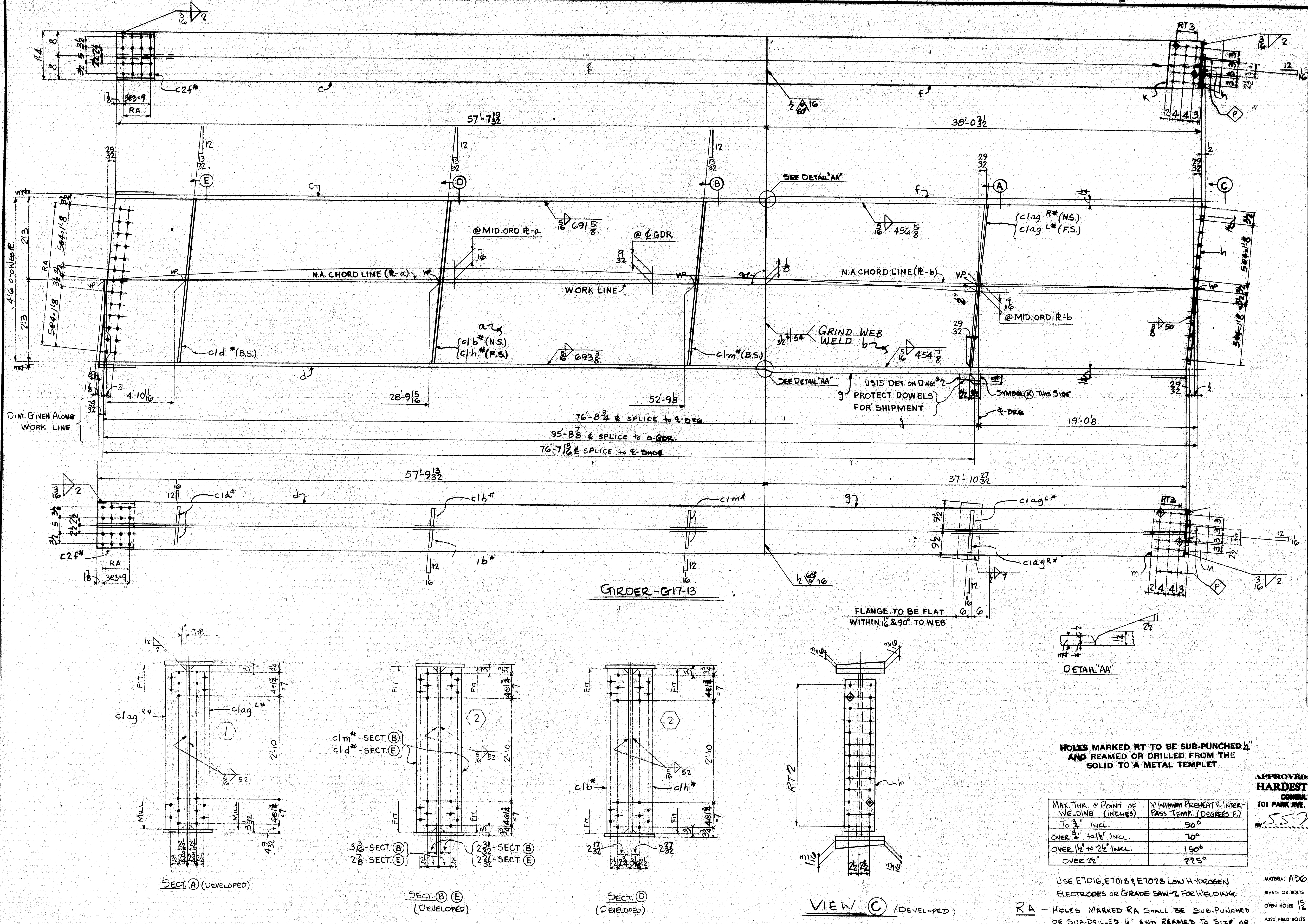

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	
1		ONE-GIRDER-G17-13												
2		a	1	PL	54		7/16	57	9 13/32	CF 56 1/2 x 7/16	58	2 1/2	26	05
3		b	1	PL	54		1/2	38	0 21/32	CF 56 x 1/2	38	7	26	07
4		c	1	PLU	16		3/4	57	7 19/32		57	11 3/4	26	16
5		d	1	PLU	16		3/4	57	9 13/32		57	11 3/4	26	16
6		f	1	PLU	16		1 1/4	38	0 23/32		38	3	26	13
7		g	1	PLU	16		1 1/4	37	10 29/32		38	3	26	13
8		h	1	PL	8		1/2	4	2		30	6	J	
9		k	1	PL	12 1/16		1 3/16 x 13/16	1	4				J	
10		m	1	PL	12 1/16		1 3/16 x 13/16	1	4				J	
11	c	2f*	2	PL	15		5/8	1	0 3/8	15 1/2 x 5/8	20	2	24	44
12	c	1ag R# L	1/1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
13	c	1b*	1	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	1h*	1	BR	7		1/2	4	6	F2E	18	4	24	51
16	c	1m*	2	BR	7		1/2	4	6	F2E	18	4	24	51
17														
18														
19														
20														
21		US15	1	UPPER SHOE						DET. ON DWG #2				
22		FW	1	WD			3/16	1	4					
23		FWS	1	WD			5/16	69	4					
24		FWL	1	WD			5/16	382	9					
25		FWS	1	WD			3/8	8	4					
26		FW	1	WD			1/2	1	2					
27		V60S	1	WD			3/4	2	8					
28		SDS	1	WD			7/16	4	6					
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HOLES MARKED RT TO BE SUB-PUNCHED 1/4" AND REAMED OR DRILLED FROM THE SOLID TO A METAL TEMPLET

MAX. THK. @ POINT OF WELDING (INCHES)	MINIMUM PREHEAT & INTER-PASS TEMP. (DEGREES F.)
To 3/4" INCL.	50°
OVER 3/4" to 1 1/2" INCL.	70°
OVER 1 1/2" to 2 1/2" INCL.	150°
OVER 2 1/2"	225°

USE E7016, E7018 & E7028 LOW HYDROGEN ELECTRODES OR GRADE SAW-2 FOR WELDING.

RA – HOLES MARKED RA SHALL BE SUB-PUNCHED OR SUB-DRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM A SOLID WITH CONNECTING PARTS ASSEMBLED.

NP 3 ALL OPEN HOLES EXCEPT AREAS NOTED P

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

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S. S. Nishimura SEP 26 1969

PAY ITEM - 504.711

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

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

INST. – 17E

REQUIRED LIST			
QTY.	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G17-13	GIRDER 19 x 58 7/8 x 95' 10 5/8	

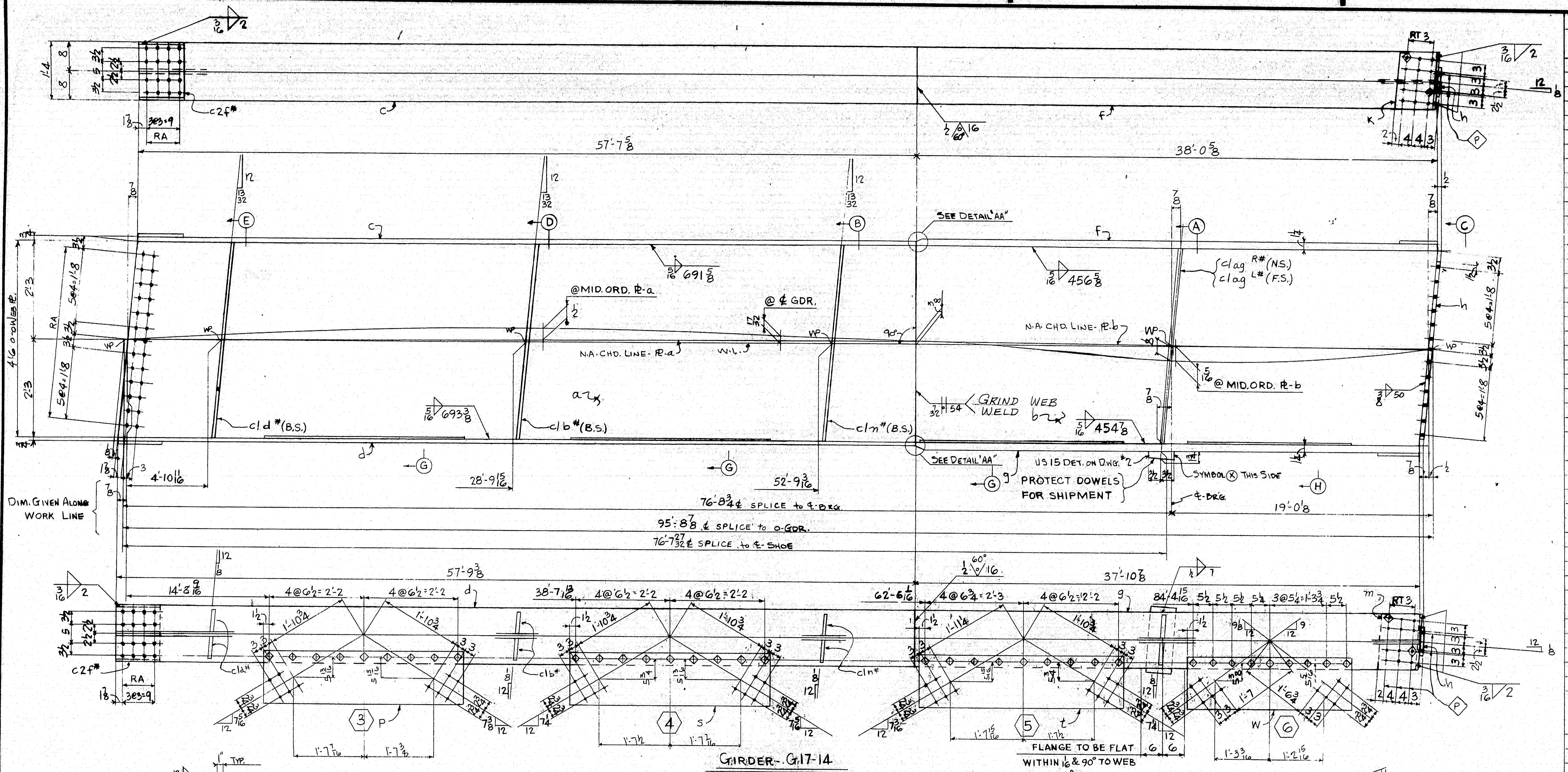
REVISION NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

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 B.A.L. DATE 8-5-69 IN CHARGE B.K. BERTOLET
CHECKED BY RJ DATE 8-19-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 150

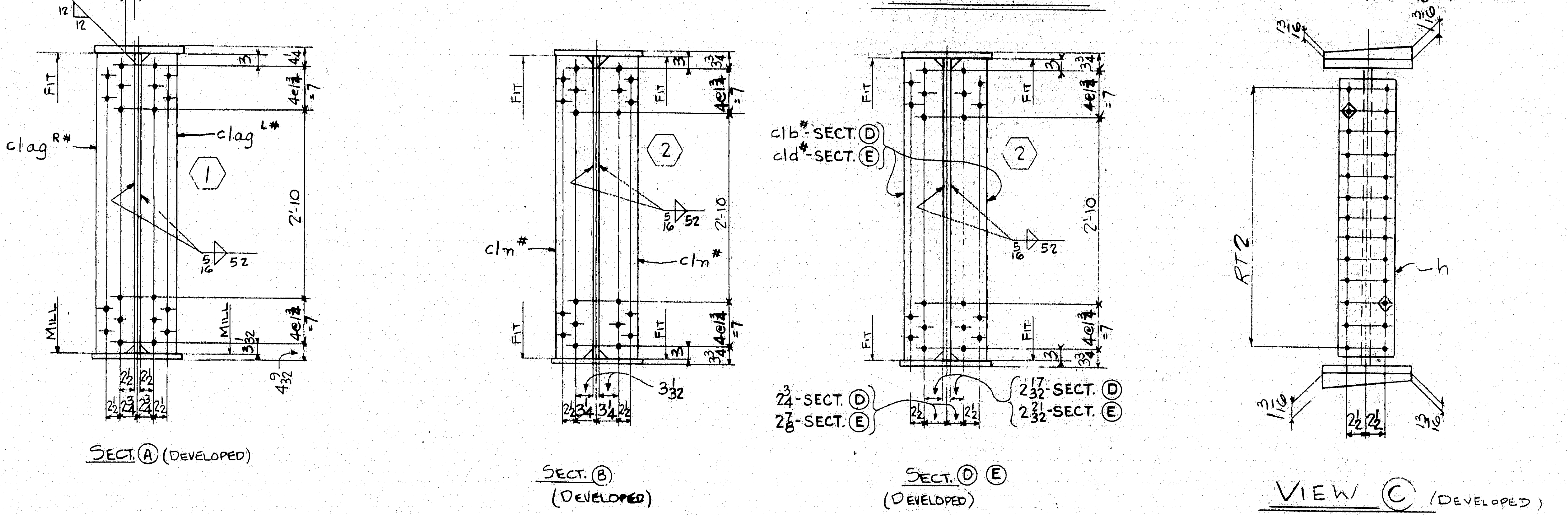
3 1 106-148 INSP #1-1

35453 (Rev. C 4-65) SEP 19 1969

For location of details shown on this sheet refer to diagrams.
E5



GIRDER - G17-14

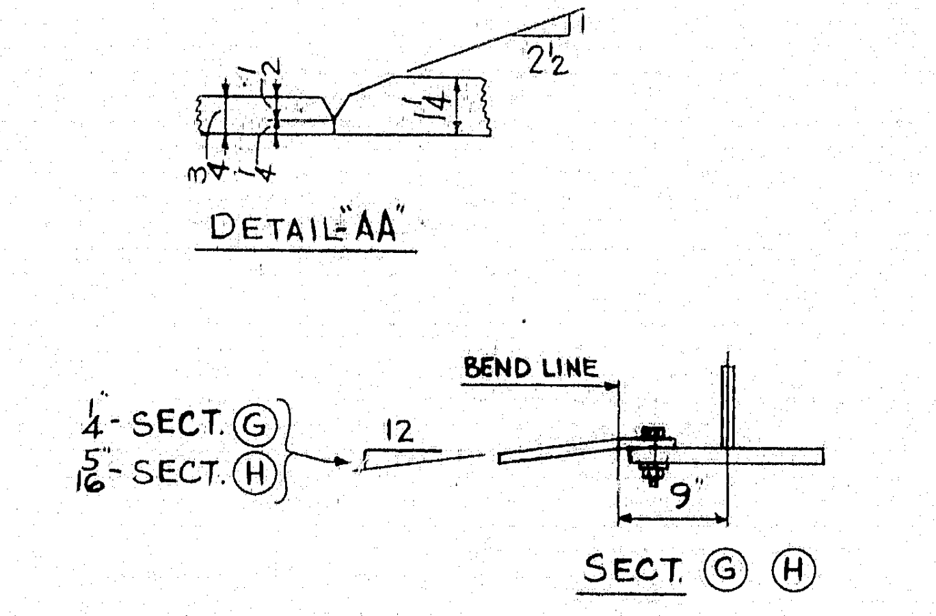


SECT. A (DEVELOPED)

SECT. B (DEVELOPED)

SECT. D E (DEVELOPED)

VIEW C (DEVELOPED)



DETAIL "AA"

SECT. G H

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-G17-14												
2		a	1	PL	54		7/16	57	9 3/8	CF 56 1/2 x 7/16	58	2 1/2	26	05
3		b	1	PL	54		1/2	38	0 5/8	CF 56 x 1/2	38	7	26	07
4		c	1	PLU	16		3/4	57	7 5/8		57	11 3/4	26	16
5		d	1	PLU	16		3/4	57	9 3/8		57	11 3/4	26	16
6		f	1	PLU	16		1 1/4	38	0 11/16		38	3	26	13
7		g	1	PLU	16		1 1/4	37	10 15/16		38	3	26	13
8		h	1	PL	8		1/2	4	2		30	6	J	
9		K	1	PL	12 8		1 3/16 x 13/16	1	4				J	
10		m	1	PL	12 8		1 3/16 x 13/16	1	4				J	
11	c	2f#	2	PL	15		5/8	1	0 3/8	15 1/2 x 5/8	20	2	24	44
12	c	lag R#/L#	1	BR	7 1/2		3/4	4	6 3/32	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	1n#	2	BR	7		1/2	4	6	F2E	18	4	24	51
16		P	1	PL	14 1/2		5/8	4	7	BENT	26	0	28	19
17		S	1	PL	14 1/2		5/8	4	7	BENT	26	0	28	19
18		t	1	PL	14 1/2		5/8	4	8	BENT	26	0	28	19
19		W	1	PL	14 1/2		5/8	3	10	BENT	26	0	28	19
20														
21		US15	1	UPPER SHOE						DET. ON DWG #2				
22		FW	1	WD			3/16	1	4					
23		FWS	1	WD			5/16	69	4					
24		FWL	1	WD			5/16	382	9					
25		FWS	1	WD			3/8	8	4					
26		FW	1	WD			1/2	1	2					
27		V60S	1	WD			3/4	2	8					
28		SDS	1	WD			7/16	4	6					
29														
30														
31			18	325	7/8			0	2 3/4	}				
32			18	325	7/8			0	3 1/4				M	
33			36	HW	1 3/4	15/16	3/16							
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INST. - 17E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G17-14	GIRDER 19 x 58 7/8 x 95'-10 1/2	

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S. S. Nishimura SEP 26 1969

PAY ITEM - 504.711

MAX. THK. @ POINT OF WELDING (INCHES)	MINIMUM PREHEAT & INTER-PASS TEMP. (DEGREES F.)
To 3/4" INCL.	50°
OVER 3/4" to 1 1/2" INCL.	70°
OVER 1 1/2" to 2 1/2" INCL.	150°
OVER 2 1/2"	225°

USE E7016, E7018 & E7028 LOW HYDROGEN ELECTRODES OR GRADE SAW-2 FOR WELDING.

RA - HOLES MARKED RA SHALL BE SUB-PUNCHED OR SUB-DRILLED 1/4 AND REAMED TO SIZE OR DRILLED FULL SIZE FROM A SOLID WITH CONNECTING PARTS ASSEMBLED

NP 3 ALL OPEN HOLES EXCEPT AREAS NOTED P

NO TACK WELD G [illegible] TIED [illegible] SHOWN OR INCORPORATED [illegible] FINAL WELD

HOLES MARKED RT TO BE SUB-PUNCHED 1/4" AND REAMED OR DRILLED FROM THE SOLID TO A METAL TEMPLET

MATERIAL A36 STEEL

RIVETS OR BOLTS

OPEN HOLES 15/16 ϕ

A325 FIELD BOLTS 7/8 ϕ

SHOP CONTACT SURFACES NO PAINT

WELD - AS NOTED
MILL - AS NOTED

PAINT ONE COAT AASHO - M72 - TYPE II RED LEAD (UN)

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

E5

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 B.A.L. DATE 8-6-69 IN CHARGE B.K. BERTOLET
CHECKED BY R J DATE 8-20-69 SHOP NO 2
CONTRACT CJ-6249-020 DRAWING NO 151

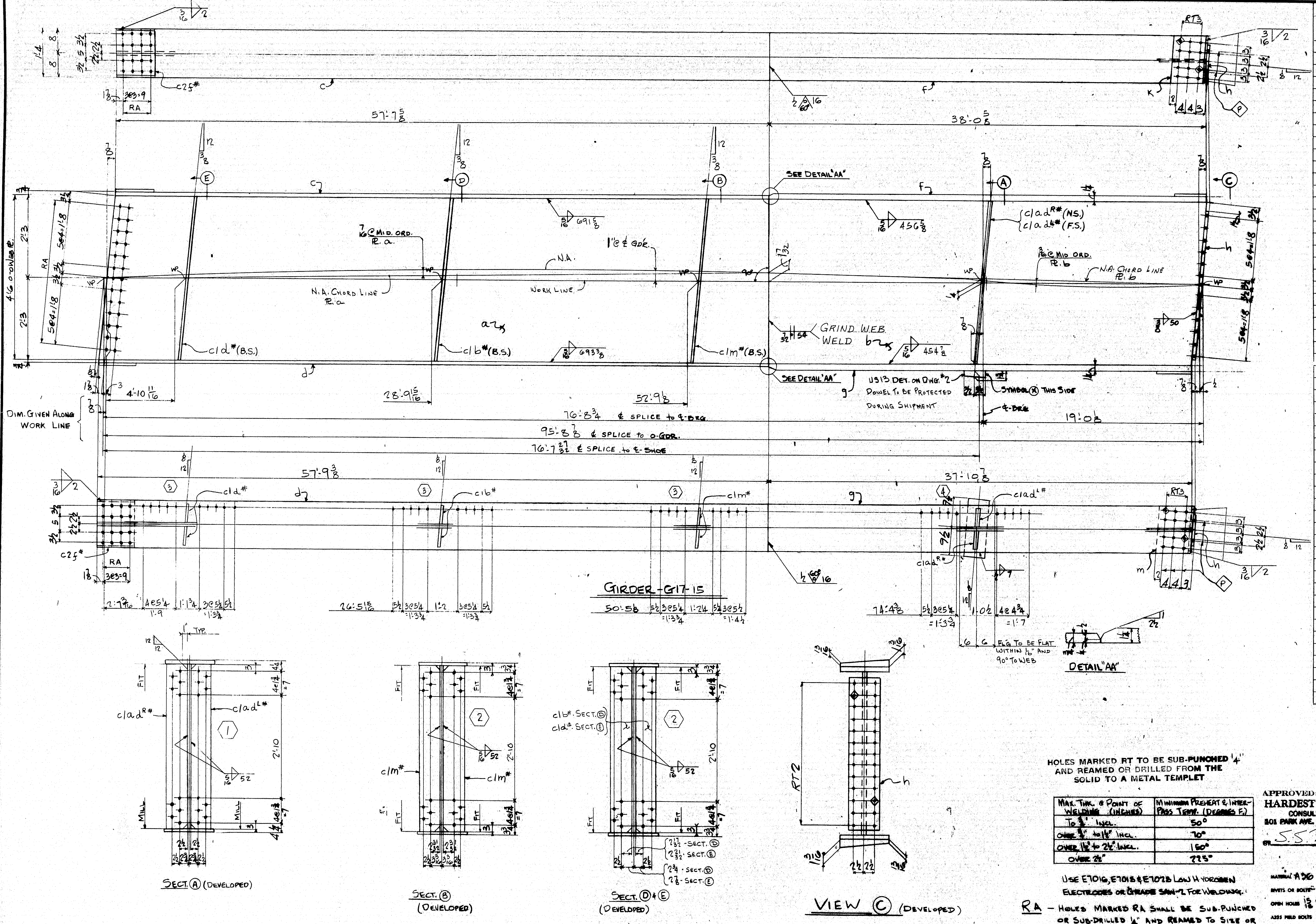
REVISION: NO | DATE | INIT

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

3

1/06-149

INSP #1-1



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-G17-15												
2	a	1	PL	54		7/16	57	9⅜	CF 56½ x 7/16	58	2½	26	05
3	b	1	PL	54		½	38	0⅝	CF 56 x ½	38	7	26	07
4	c	1	PLU	16		¾	57	7⅝		57	11¾	26	16
5	d	1	PLU	16		¾	57	9⅜		57	11¾	26	16
6	f	1	PLU	16		1¼	38	0 23/32		38	3	26	13
7	g	1	PLU	16		1¼	37	10 31/32		38	3	26	13
8	h	1	PL	8		½	4	2		30	6	J	
9	K	1	PL	12⅛		1 3/16 x 13/16	1	4				J	
10	m	1	PL	12⅛		1 3/16 x 13/16	1	4				J	
11	c 25*	2	PL	15		⅝	1	0⅜	15½ x ⅝	20	2	24	44
12	c 1ad R* L*	1/1	BR	7½		¾	4	6	MIE FIE	18	4	24	49
13	c 1d*	2	BR	7		½	4	6	F2E	18	4	24	51
14	c 1b*	2	BR	7		½	4	6	F2E	18	4	24	51
15	c 1m*	2	BR	7		½	4	6	F2E	18	4	24	51
16													
17													
18													
19													
20													
21	US13	1	UPPER SHOE						DET. ON DWG #2				
22	FW	1	WD			3/16	1	4					
23	FWS	1	WD			5/16	69	4					
24	FWL	1	WD			5/16	382	9					
25	FWS	1	WD			⅜	8	4					
26	FW	1	WD			½	1	2					
27	V60S	1	WD			¾	2	8					
28	SDS	1	WD			7/16	4	6					
29													
30													
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HOLES MARKED RT TO BE SUB-PUNCHED ¼" AND REAMED OR DRILLED FROM THE SOLID TO A METAL TEMPLET

MAX. THK. @ POINT OF WELDING (INCHES)	MINIMUM PREHEAT & INTER-PASS TEMP. (DEGREES F.)
To ¾" INCL.	50°
OVER ¾" to 1½" INCL.	70°
OVER 1½" to 2½" INCL.	150°
OVER 2½"	225°

USE E7016, E7018 & E7028 LOW HYDROGEN ELECTRODES OR GRADE SAW-2 FOR WELDING.

RA – HOLES MARKED RA SHALL BE SUB-PUNCHED OR SUB-DRILLED ¼" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM A SOLID WITH CONNECTING PARTS ASSEMBLED.

N/3 ALL OPEN HOLES EXCEPT AREAS NOTED P

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

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S. S. Nishimura SEP 26 1969

PAY ITEM - 504.7H

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

INST-17E

REQUIRED LIST			
QTY.	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G17-15	GIRDER 19 x 58⅜ x 96-0	

GIRDER
CONTRACT 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 RDN DATE 8-7-69 IN CHARGE [illegible]
CHECKED BY RJ DATE 8-20-69 SHOP NO. 2
CONTRACT CI-6214-090 DRAWING NO. 152

NO.	DATE	BY.
9		
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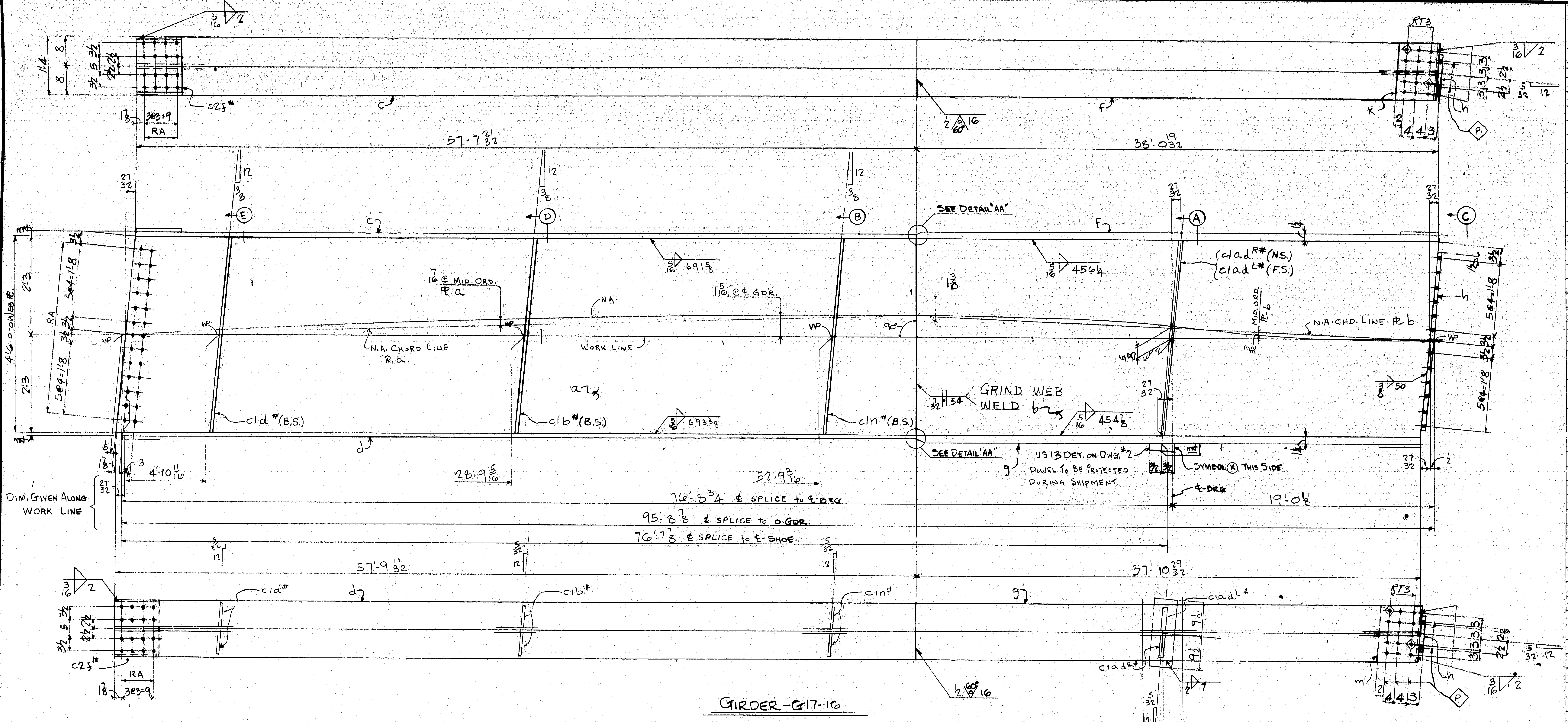
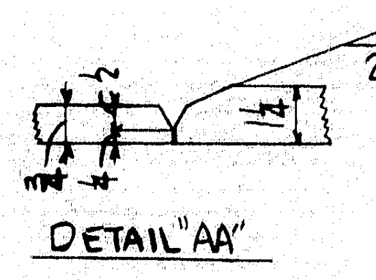
REVISIONS

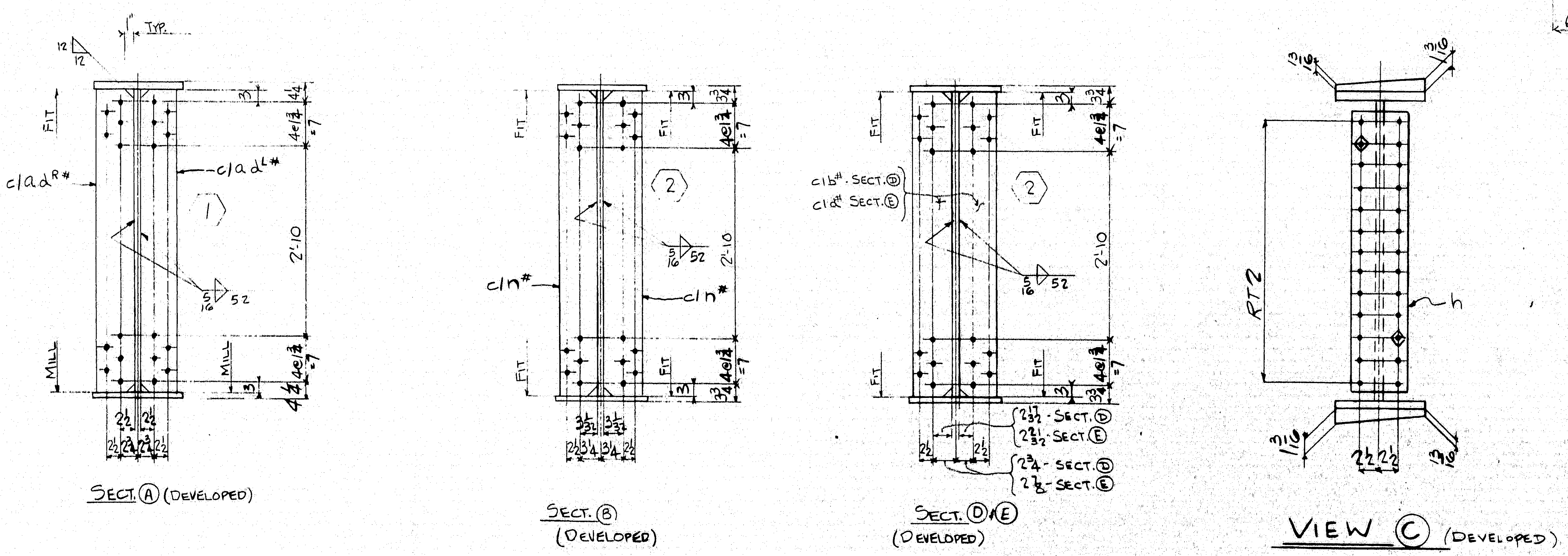
SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

For location of details shown on this sheet refer to diagrams.
E5

106 - 150 INSP #1-1







SHOP BILL / **MILL ORDER**

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-		G17-16								
2		a	1	PL	54		7/16	57	9 11/32	CF 56½ × 7/16	58	2½	26	05
3		b	1	PL	54		½	38	0 19/32	CF 56 × ½	38	7	26	07
4		c	1	PLU	16		¾	57	7 21/32		57	11¾	26	16
5		d	1	PLU	16		¾	57	9 11/32		57	11¾	26	16
6		f	1	PLU	16		1¼	38	0 23/32		38	3	26	13
7		g	1	PLU	16		1¼	37	11 1/32		38	3	26	13
8		h	1	PL	8		½	4	2		306		J	
9		k	1	PL	12 3/16		1 3/16 × 13/16	1	4				J	
10		m	1	PL	12 3/16		1 3/16 × 13/16	1	4				J	
11	C	25*	2	PL	15		⅝	1	0⅜	15½ × ⅝	20	2	24	44
12	C	1ad R* L	1/1	BR	7½		¾	4	6	MIE FIE	18	4	24	44
13	C	1d*	2	BR	7		½	4	6	F2E	18	4	24	51
14	C	1b*	2	BR	7		½	4	6	F2E	18	4	24	51
15	C	h*	2	BR	7		½	4	6	F2E	18	4	24	51
16														
17														
18														
19														
20														
21		US13	1	UPPER SHOE						DET. ON DWG #2				
22		FW	1	WD			3/16	1	4					
23		FWS	1	WD			5/16	69	4					
24		FWL	1	WD			5/16	382	8¼					
25		FWS	1	WD			⅜	8	4					
26		FW	1	WD			½	1	2					
27		V60S	1	WD			¾	2	8					
28		SDS	1	WD			7/16	4	6					
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HOLES MARKED RT TO BE SUB-PUNCHED ¼" AND REAMED OR DRILLED FROM THE SOLID TO A METAL TEMPLET

Max. Thk. @ Point of Welding (Inches)	Minimum Preheat & Inter-Pass Temp. (Degrees F.)
To ¾" Incl.	50°
Over ¾" to 1½" Incl.	70°
Over 1½" to 2½" Incl.	150°
Over 2½"	225°

Use E7016, E7018 & E7028 Low Hydrogen Electrodes or Grade SAW-2 for Welding.

RA – Holes marked RA shall be sub-punched or sub-drilled ¼" and reamed to size or drilled full size from a solid with connecting parts assembled.

◇NP3 All open holes except areas noted ◇P

No tack welding permitted unless shown or incorporated in final weld.

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S. S. Nishimura
SEP 26

Material A36 Steel
Rivets or Bolts
Open Holes 15/16 ϕ
A325 Field Bolts ⅞ ϕ
Shop Contact Surfaces No Paint
Weld - As Noted
Mill - As Noted
Paint One Coat AASHO-M72-Type II Red Lead (UN)

Inst. – 17E

Required List

Qty	Shipping Mark	Description	Remarks
One	G17-16	Girder 19 × 58⅞ × 96'-0	

Pay Item – 504.711

Girder

Revision No.	Date	Init.
0		
9		
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Submittal	1	2	3	4	5	6	7	8	9	0
Date										

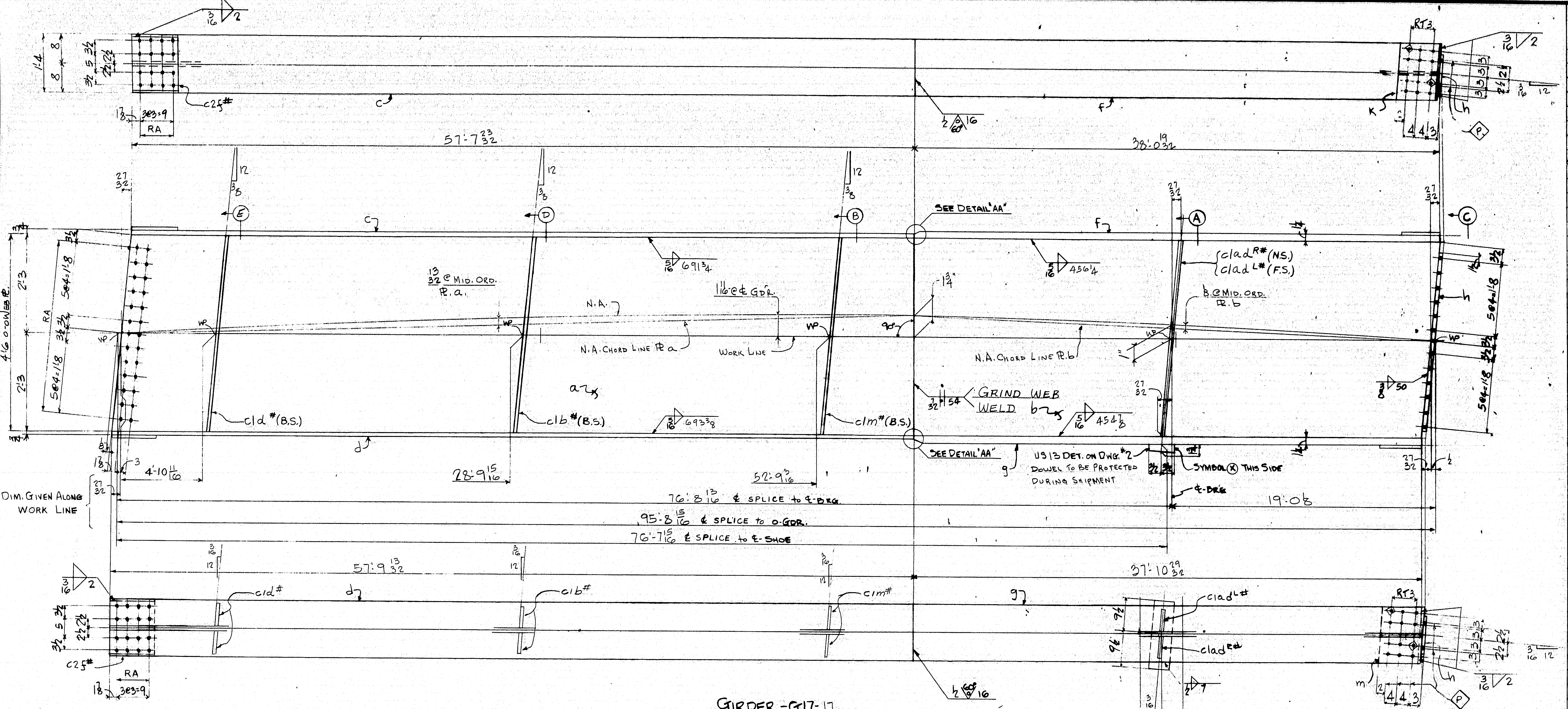
Customer
Maine State Highway Commission
Piscataqua River Bridge
Project No. I-95-1(22)16
Cont. No 3 - New Hampshire App.
Structural Steel
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
Pottstown Drafting Room — Pottstown Works
Made by R.D.N. Date 8-6-69 In Charge B.K. Bertolet
Checked by R.J. Date 8-20-69 Shop No. 2
Contract CJ-6249-020 Drawing No. 153

For location of details shown on this sheet refer to diagrams.
E5

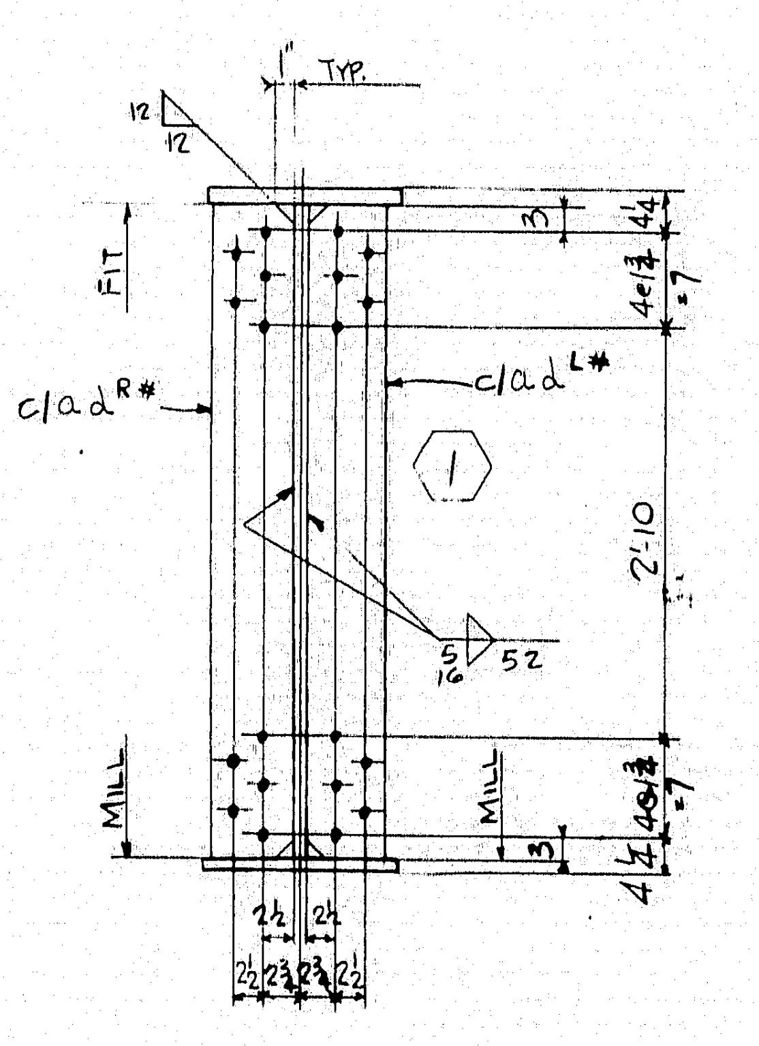
3

106-15/INSP #1-1

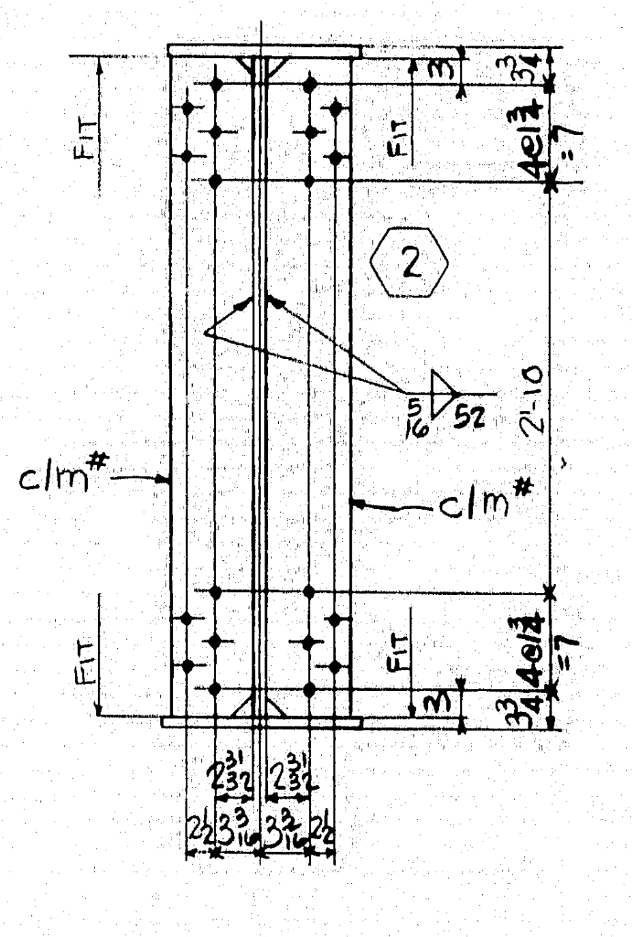
SEP 19 1969



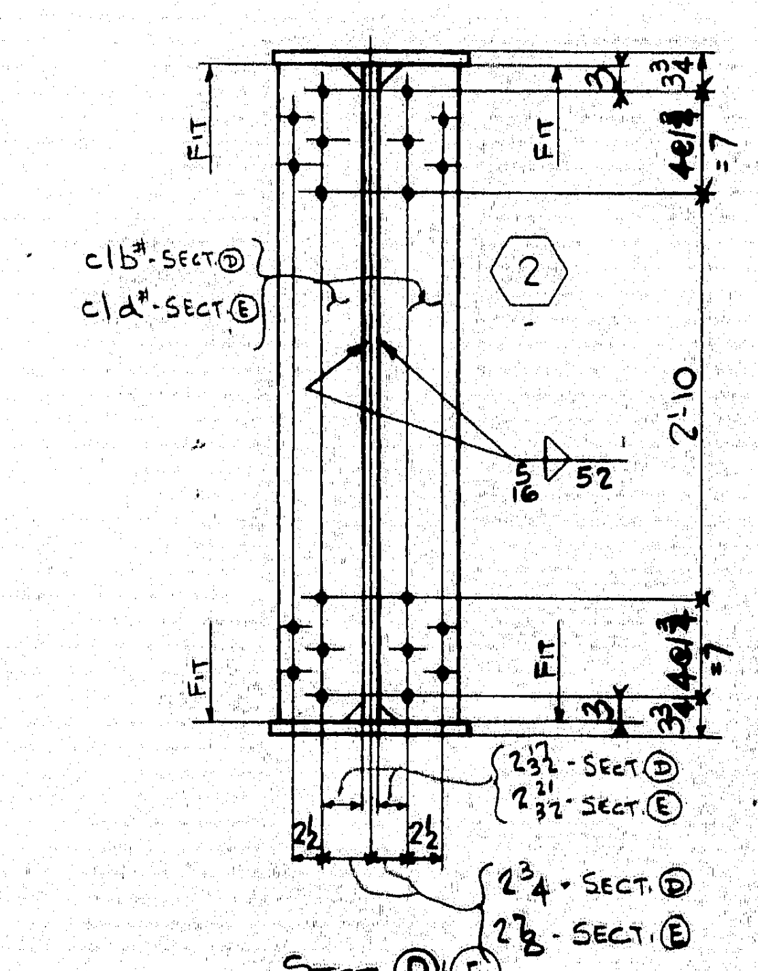
GIRDER - G17-17



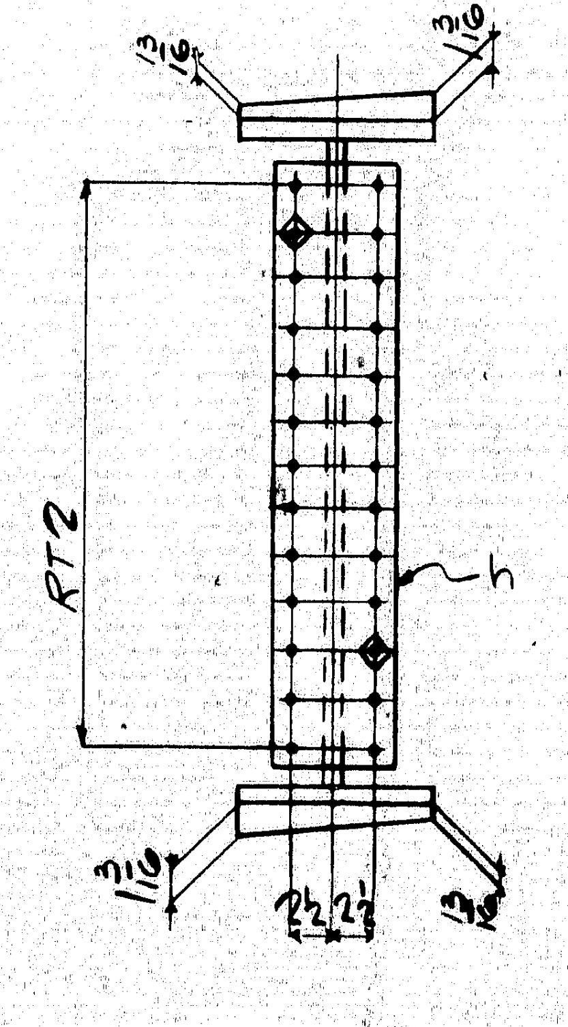
SECT. Ⓐ (DEVELOPED)



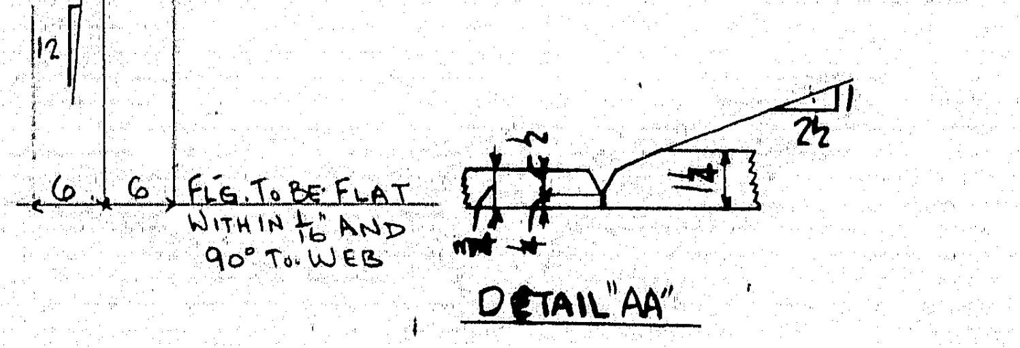
SECT. Ⓑ (DEVELOPED)



SECT. Ⓓ Ⓔ (DEVELOPED)



VIEW Ⓒ (DEVELOPED)



DETAIL "AA"

SHOP BILL

LINE	ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	[illegible]	THICK	LENGTH FT.	LENGTH IN.	REMARKS	FT.	IN.	[illegible]	[illegible]
1	ONE - GIRDER - G17-17												
2	a	1	PL	54		7/16	57	9 13/32	CF 56½ x 7/16	[illegible]	2½	26	05
3	b	1	PL	54		½	38	0 9/32	CF 56 x ½	38	7	26	07
4	c	1	PLU	16		¾	57	7 23/32		57	11¾	26	16
5	d	1	PLU	16		¾	57	9 13/32		57	11¾	26	16
6	f	1	PLU	16		1¼	38	0 23/32		38	3	26	13
7	g	1	PLU	16		1¼	37	11 1/16		38	3	26	13
8	h	1	PL	8		½	4	2		30	6	J	
9	K	1	PL	12		1 3/16 x 13/16	1	4				J	
10	m	1	PL	12		1 3/16 x 13/16	1	4				J	
11	c 2f#	2	PL	15		5/8	1	0 3/8	15½ x 5/8	20	2	24	44
12	c 1ad R# L	1/1	BR	7½		¾	4	6	MIE FIE	18	4	24	49
13	c 1d#	2	BR	7		½	4	6	F2E	18	4	24	51
14	c 1b#	2	BR	7		½	4	6	F2E	18	4	24	51
15	c 1m#	2	BR	7		½	4	6	F2E	18	4	24	51
16													
17													
18													
19													
20													
21	US13	1	UPPER SHOE						DET. ON DWG #2				
22	FW	1	WD			3/16	1	4					
23	FWS	1	WD			5/16	69	4					
24	FWL	1	WD			5/16	382	8½					
25	FWS	1	WD			3/8	8	4					
26	FW	1	WD			½	1	2					
27	VG0S	1	WD			¾	2	8					
28	SDS	1	WD			7/16	4	6					
29													
30													
31													
32													
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55													

HOLES MARKED RT TO BE SUB-PUNCHED ¼"
AND REAMED OR DRILLED FROM THE
SOLID TO A METAL TEMPLET

MAX. THK. @ POINT OF WELDING (INCHES)	MINIMUM PREHEAT & INTER-PASS TEMP. (DEGREES F.)
TO ¾" INCL.	50°
OVER ¾" TO 1½" INCL.	70°
OVER 1½" TO 2½" INCL.	150°
OVER 2½"	225°

USE E7016, E7018 & E7028 LOW HYDROGEN ELECTRODES OR GRADE SAW-2 FOR WELDING.

RA - HOLES MARKED RA SHALL BE SUB-PUNCHED OR SUB-DRILLED ¼" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM A SOLID WITH CONNECTING PARTS ASSEMBLED.

NP 3 ALL OPEN HOLES EXCEPT AREAS NOTED P

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

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S. S. Nishimura
SEP 26 1969

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

INST. - 17E

REQUIRED LIST			
QTY.	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G17-17	GIRDER 19 X 58 3/8 X 95'-10 5/8	

PAY ITEM - 504.711

GIRDER

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

REVISION

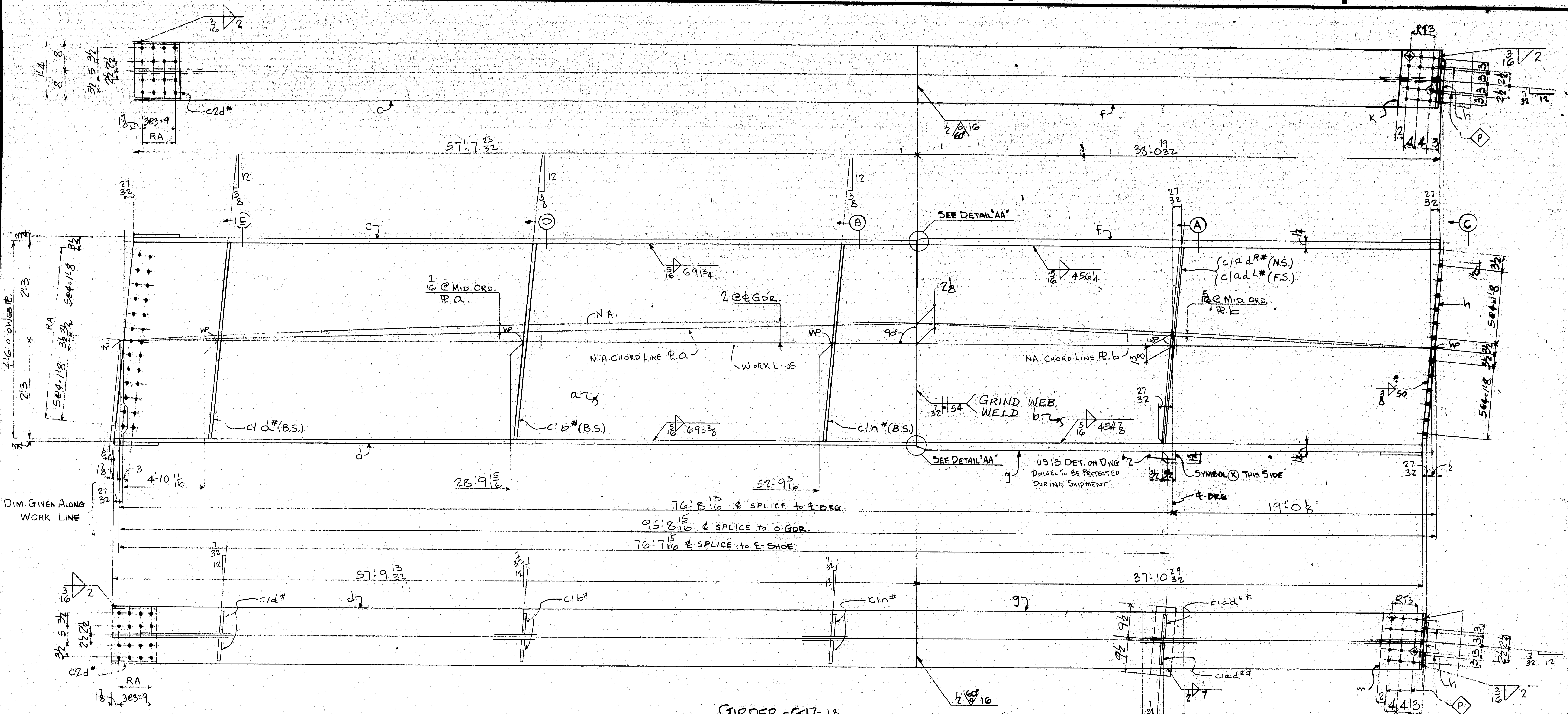
SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT NO. I-95-1(??)
CONT. NO. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY R.D.N. DATE 8-6-69 IN CHARGE [illegible]
CHECKED BY RJ DATE 8-20-69 SHOP NO. 2
CONTRACT [illegible] DRAWING NO. 154

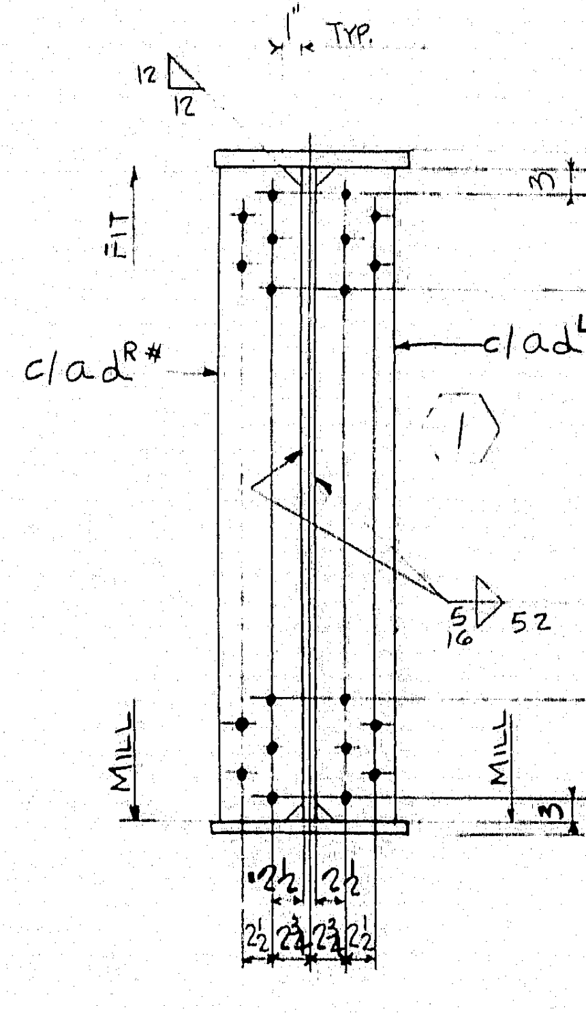
106 - 132 INSP #14

For location of details shown on this sheet refer to diagrams.
E5

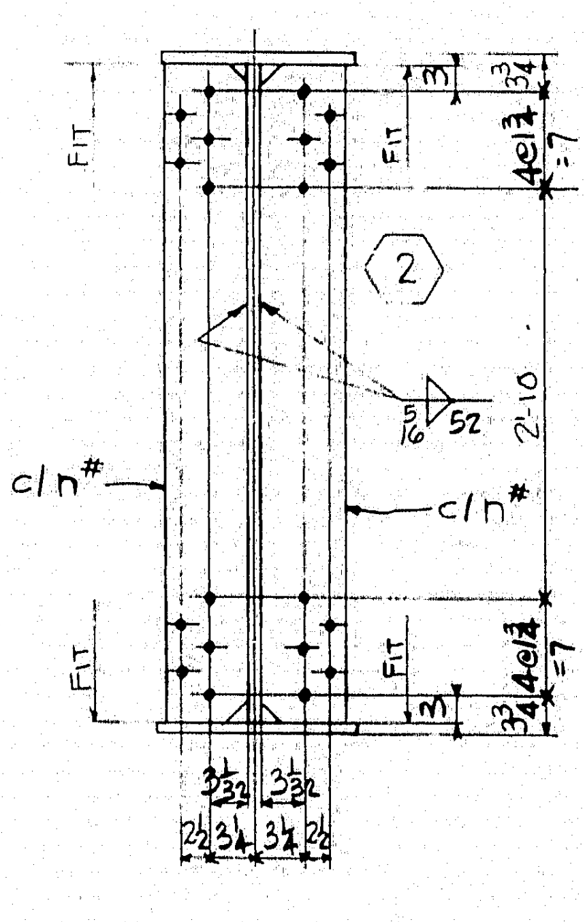
0 1 2 3 4 5 INCHES



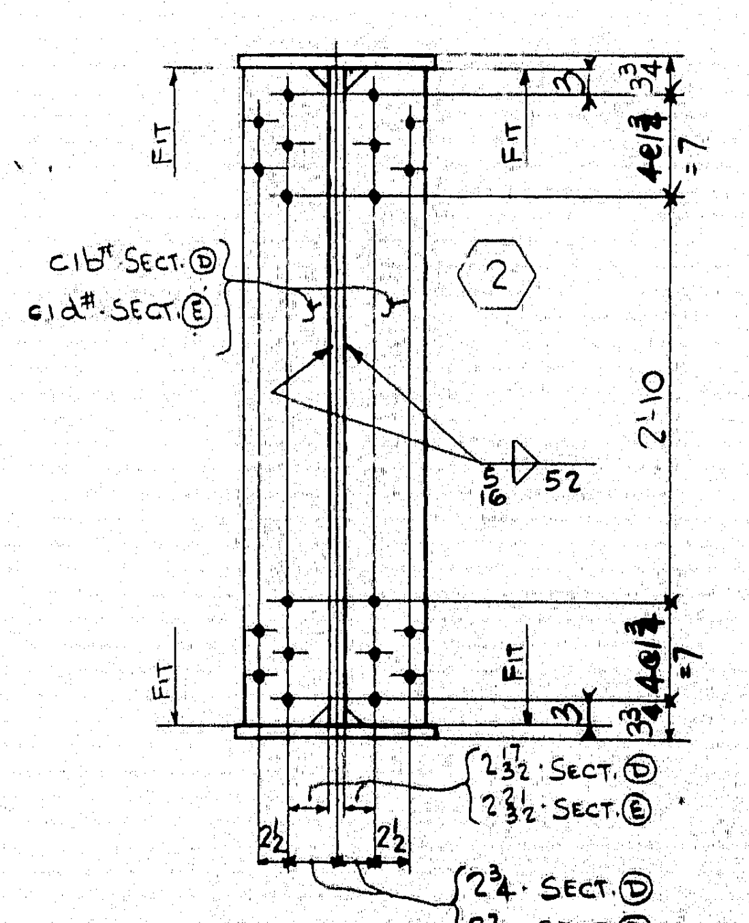
GIRDER-G17-18



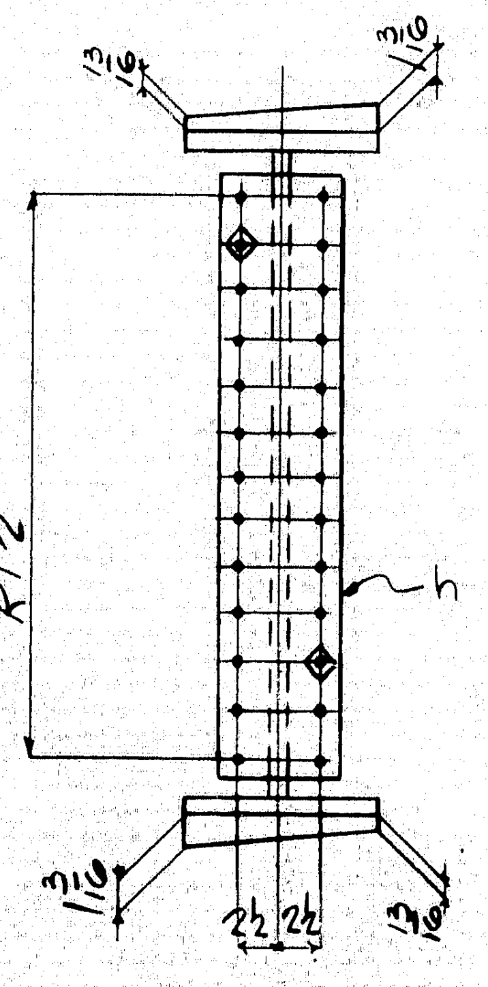
SECT. Ⓐ (DEVELOPED)



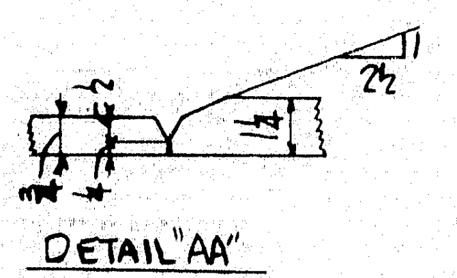
SECT. Ⓑ (DEVELOPED)



SECT. Ⓓ & Ⓔ (DEVELOPED)



VIEW Ⓒ (DEVELOPED)



DETAIL "AA"

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-G17-18												
2		a	1	PL	54		7/16	57	9 13/32	CF 56 1/2 x 7/16	58	2 1/2	26	05
3		b	1	PL	54		1/2	38	0 19/32	CF 56 x 1/2	38	7	26	07
4		c	1	PLU	16		3/4	57	7 23/32		57	11 3/4	26	16
5		d	1	PLU	16		3/4	57	9 13/32		57	11 3/4	26	16
6		f	1	PLU	16		1 1/4	38	0 23/32		38	3	26	13
7		g	1	PLU	16		1 1/4	37	11 1/16		38	3	26	13
8		h	1	PL	8		1/2	4	2		30	6	J	
9		K	1	PL	12 1/4		1 3/16 x 13/16	1	4				J	
10		m	1	PL	12 1/4		1 3/16 x 13/16	1	4				J	
11	c	2f*	2	PL	15		5/8	1	0 3/8	15 1/2 x 5/8	20	2	24	44
12	c	1ad R*/L	1/1	BR	7 1/2		3/4	4	6	MIE FIE	18	4	24	49
13	c	1d*	2	BR	7		1/2	4	6	F2E	18	4	24	51
14	c	1b*	2	BR	7		1/2	4	6	F2E	18	4	24	51
15	c	1n*	2	BR	7		1/2	4	6	F2E	18	4	24	51
16														
17														
18														
19														
20														
21		US13	1	UPPER SHOE						DET. ON DWG #2				
22		FW	1	WD			3/16	1	4					
23		FWS	1	WD			5/16	69	4					
24		FWL	1	WD			5/16	382	8 1/2					
25		FWS	1	WD			3/8	8	4					
26		FW	1	WD			1/2	1	2					
27		V60S	1	WD			3/4	2	8					
28		SDS	1	WD			7/16	4	6					
29														
30														
31														
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55														

INST.-17E

REQUIRED LIST

QTY.	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G17-18	GIRDER 19 x 58 7/8 x 95'-10 5/8	

PAY ITEM-504.711

HOLES MARKED RT TO BE SUB-PUNCHED 1/4" AND REAMED OR DRILLED FROM THE SOLID TO A METAL TEMPLET

MAX. THK. @ POINT OF WELDING (INCHES)	MINIMUM PREHEAT & INTER-PASS TEMP. (DEGREES F.)
To 3/4" Incl.	50°
Over 3/4" to 1 1/2" Incl.	70°
Over 1 1/2" to 2 1/2" Incl.	150°
Over 2 1/2"	225°

USE E7016, E7018 & E7028 LOW HYDROGEN ELECTRODES OR GRADE SAW-2 FOR WELDING.

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

◇NP3 ALL OPEN HOLES EXCEPT AREAS NOTED ◇P

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

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

SEP 26 [illegible]

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

GIRDER

NO.	DATE	INIT.
0		
9		
8		
7		
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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 APP.
STRUCTURAL STEEL

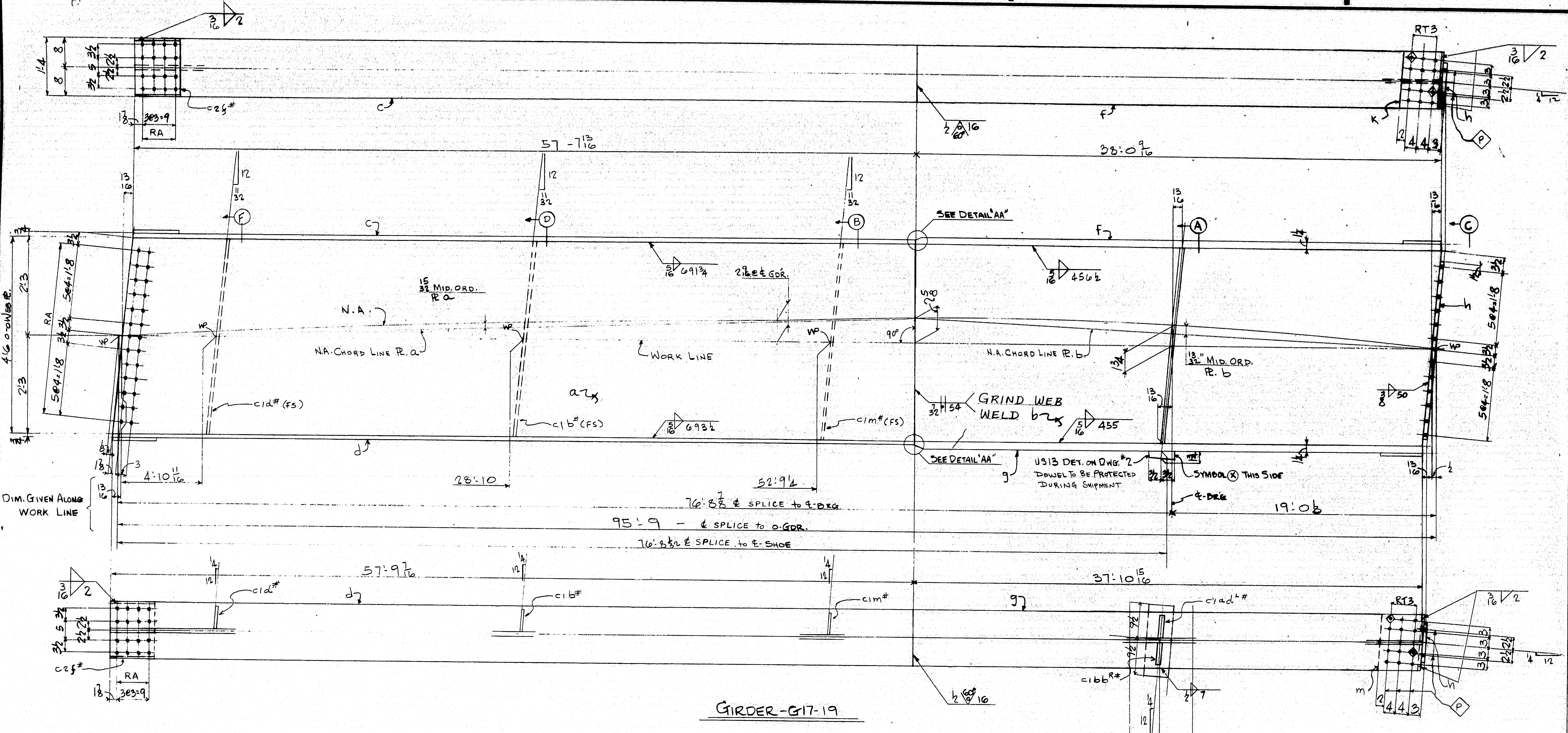
BETHLEHEM STEEL CORPORATION

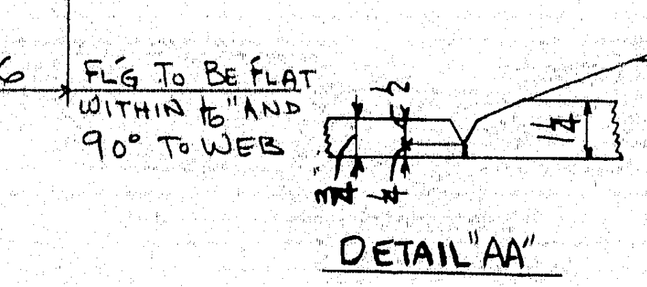
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RDN DATE 8-6-69 IN CHARGE B.K. [illegible]
CHECKED BY RJ DATE 8-20-69 SHOP NO. 2
CONTRACT C3G214-020 DRAWING NO. 155

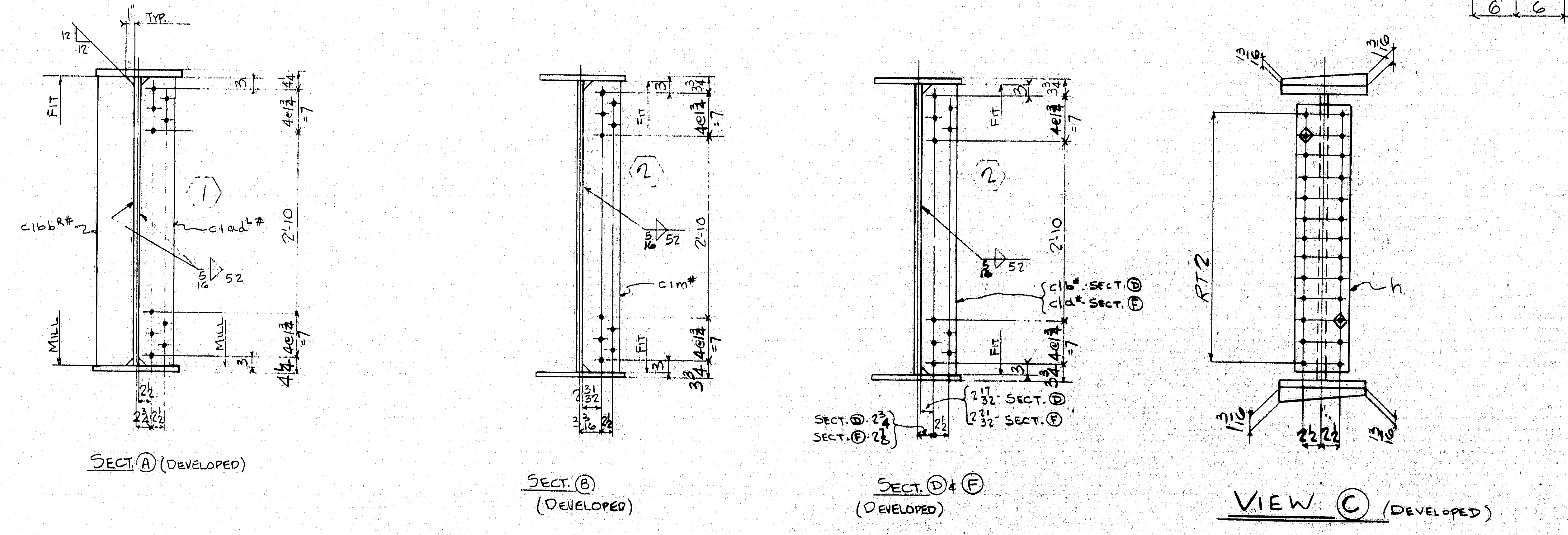
For location of details shown on this sheet refer to diagrams.
E5

3 1 106-153 INSP#14

SEP 19 1969







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-	G17-19									
2		a	1	PL	54		7/16	57	9 7/16	CF 56½ x 7/16	58	2½	26	05
3		b	1	PL	54		½	38	0 9/16	CF 56 x ½	38	7	26	07
4		c	1	PLU	16		¾	57	7 13/16		57	11¾	26	16
5		d	1	PLU	16		¾	57	9 7/16		57	11¾	26	16
6		f	1	PLU	16		1¼	38	0 15/16		38	3	26	13
7		g	1	PLU	16		1¼	37	11 5/8		38	3	26	13
8		h	1	PL	8		½	4	2		30	6	J	
9		K	1	PL	12¼		1 3/16 x 13/16	1	4				J	
10		m	1	PL	12¼		1 3/16 x 13/16	1	4				J	
11	c	2f#	2	PL	15		5/8	1	0 3/8	15½ x 5/8	20	2	24	44
12	c	1ad L#	1	BR	7½		¾	4	6	MIE FIE	18	4	24	49
13	c	1bb R#	1	BR	7½		¾	4	6	MIE FIE	18	4	24	49
14	c	1b#	1	BR	7		½	4	6	F2E	18	4	24	51
15	c	1d#	1	BR	7		½	4	6	F2E	18	4	24	51
16	c	1m#	1	BR	7		½	4	6	F2E	18	4	24	51
17														
18														
19														
20														
21		US13	1	UPPER SHOE						DET. ON DWG #2				
22		FW	1	WD			3/16	1	4					
23		FWS	1	WD			5/16	43	4					
24		FWL	1	WD			5/16	382	8½					
25		FWS	1	WD			3/8	8	4					
26		FW	1	WD			½	1	2					
27		VGOS	1	WD			¾	2	8					
28		SDS	1	WD			7/16	4	6					
29														
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INST. — 17E

REQUIRED LIST

QTY.	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G17-19	GIRDER 19 x 58 7/8 x 95'-11	

PAY ITEM - 504.711

HOLES MARKED RT TO BE SUB-PUNCHED ¼" AND REAMED OR DRILLED FROM THE SOLID TO A METAL TEMPLET

MAX. THK. @ POINT OF WELDING (INCHES)	MINIMUM PREHEAT & INTER-PASS TEMP. (DEGREES F.)
To ¾" INCL.	50°
OVER ¾" to 1½" INCL.	70°
OVER 1½" to 2½" INCL.	150°
OVER 2½"	225°

USE E7016, E7018 & E7028 LOW HYDROGEN ELECTRODES OR GRADE SAW-2 FOR WELDING.

RA - HOLES MARKED RA SHALL BE SUB-PUNCHED OR SUB-DRILLED ¼" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM A SOLID WITH CONNECTING PARTS ASSEMBLED.

NP 3 ALL OPEN HOLES EXCEPT AREAS NOTED (P)

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

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

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S. S. Nishimura
SEP 26 1969

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

E5

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.D.N. DATE 7-31-69 IN CHARGE B.K. BERTOLET
CHECKED BY R.J. DATE 8-20-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 156

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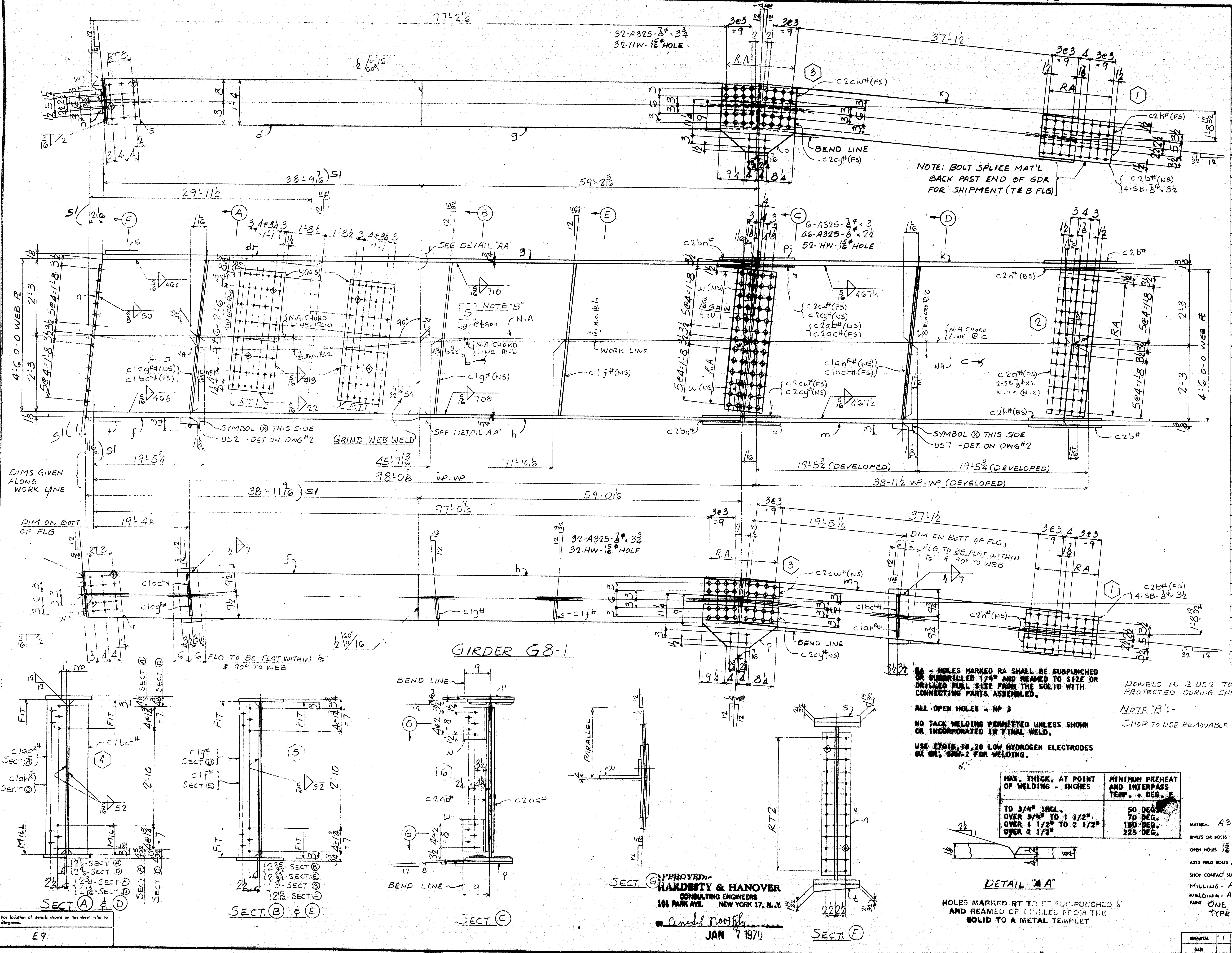
SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

3 1/06-137 INSP#1-1

11-35458 (Rev. C 4-63)



APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
Arnold Dooley
JAN 7 1970

LINE	ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SIZE OR POUNDS	THICK	LENGTH FT.	LENGTH IN.	REMARKS	FT.	IN.		
1		1	- GIRDER		G8-1								
2	a	1	PL	54		½	38	11 9/16	) S1 56 x ½	39	4¾	17	[illegible]
3	b	1	PL	54		7/16	59	2 1/16	56½ x 7/16	59	6¼	18	[illegible]
4	c	1	PL	54		½	39	1½	56 x ½	39	4¾	17	45
5	d	1	PLU	16		1⅛	38	9⅝	) S1	39	1½	20	[illegible]
6	f	1	PLU	16		1⅛	38	11¾	) S1	39	1½	20	[illegible]
7	g	1	PLU	16		¾	59	2¼		59	3	22	[illegible]
8	h	1	PLU	16		¾	59	0⅛		59	3	22	[illegible]
9	k	1	PLU	16		1⅜	38	11 7/16		39	1½	21	17
10	m	1	PLU	16		1⅜	38	11 7/16		39	1½	21	17
11	n	1	PL	8	S1(	½	4	2				J.	
12	p	2	PL	24¾		½	2	1½	(BENT) CF 25½ x ½	22	4	24	46
13	s	1	PL	12		21/32 x 1 19/32	1	4	C.F. CROPS			J	
14	t	1	PL	12		21/32 x 1 19/32	1	4	C.F. CROPS			J.	
15	w	2	L	7	3¼	½	0	11	(BENT) C.F. 7 x 4 x ½	40	0	36	35
16	C 1ag#	1	BR	7½		¾	4	6 1/32	(MIE)(FIE)	18	4	24	49
17	C 1ah#	1	BR	7½		¾	4	6 1/32	(MIE)(FIE)	18	4	24	49
18	C 1bc#	2	BR	7½		¾	4	6 1/32	(MIE)(FIE)	18	4	24	49
19	C 1g#	1	BR	7		½	4	6	(F2E)	18	4	24	51
20	C 1f#	1	BR	7		½	4	6	(F2E)	18	4	24	51
21	C 2bn#	2	PL	12⅞		⅝	1	4	CF 15½ x ⅝	20	2	24	44
22	C 2cw#	2	BR	6½		½	2	1½		19	0	24	50
23	C 2cy#	2	BR	6½		½	2	1½		19	0	24	50
24	C 2ab#	1	PLU	13		⅜	4	2	(BENT)	21	1	24	48
25	C 2ac#	1	PLU	13		⅜	4	2	(BENT)	21	1	24	48
26	C 2a#	1	PLU	13		⅜	4	2		21	1	24	48
27	C 2b#	2	PLU	15		½	2	1		21	3	24	47
28	C 2h#	4	BR	6½		½	2	1		19	0	24	50
29	y	2	PL	22		1⅜	3	7		30	2	34	02
30	US2	1	UPPER	SHOE					(DET. ON DWG #2)				
31	US7	1	UPPER	SHOE					(DET. ON DWG #2)				
32		6	325	⅞φ			0	3					
33		46	325	⅞φ			0	2½					
34		64	325	⅞φ			0	3¾				M	
35		116	HW	1¾φ	15/16φ	3/16							
36		8	SB	⅞φ			0	3½	HEX HD & NUT				
37		2	SB	⅞φ			0	2	HEX HD & NUT			M	
38	FW	1	WD			3/16	0	8					
39	FWS	1	WD			5/16	73	8					
40	FWL	1	WD			5/16	547	7					
41	FWS	1	WD			⅜	8	4					
42	FW	1	WD			½	2	4					
43	SDS	1	WD			7/16	4	6					
44	VGOS	1	WD			¾	2	8					
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 - HP 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.

DETAIL "AA"

HOLES MARKED RT TO BE SUB-PUNCHED ¼" AND REAMED OR DRILLED FROM THE SOLID TO A METAL TEMPLET

DOWELS IN ℄ US2 TO BE PROTECTED DURING SHIPMENT

NOTE "B":-
SHOP TO USE REMOVABLE PAINT FOR STENCILING

INSTALLMENT - 8W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G8-1	GIRDER (37 x 62 x 138'-2⅝)	

PAY ITEM - 504.711

GIRDER

MATERIAL A36 STEEL
RIVETS OR BOLTS ⅞φ A325
OPEN HOLES 15/16φ
A325 FIELD BOLTS ⅞φ
SHOP CONTACT SURFACES NO PAINT
MILLING - AS NOTED
WELDING - AS NOTED
PAINT ONE COAT AASHO-M72 TYPE II RED LEAD (U.N.)

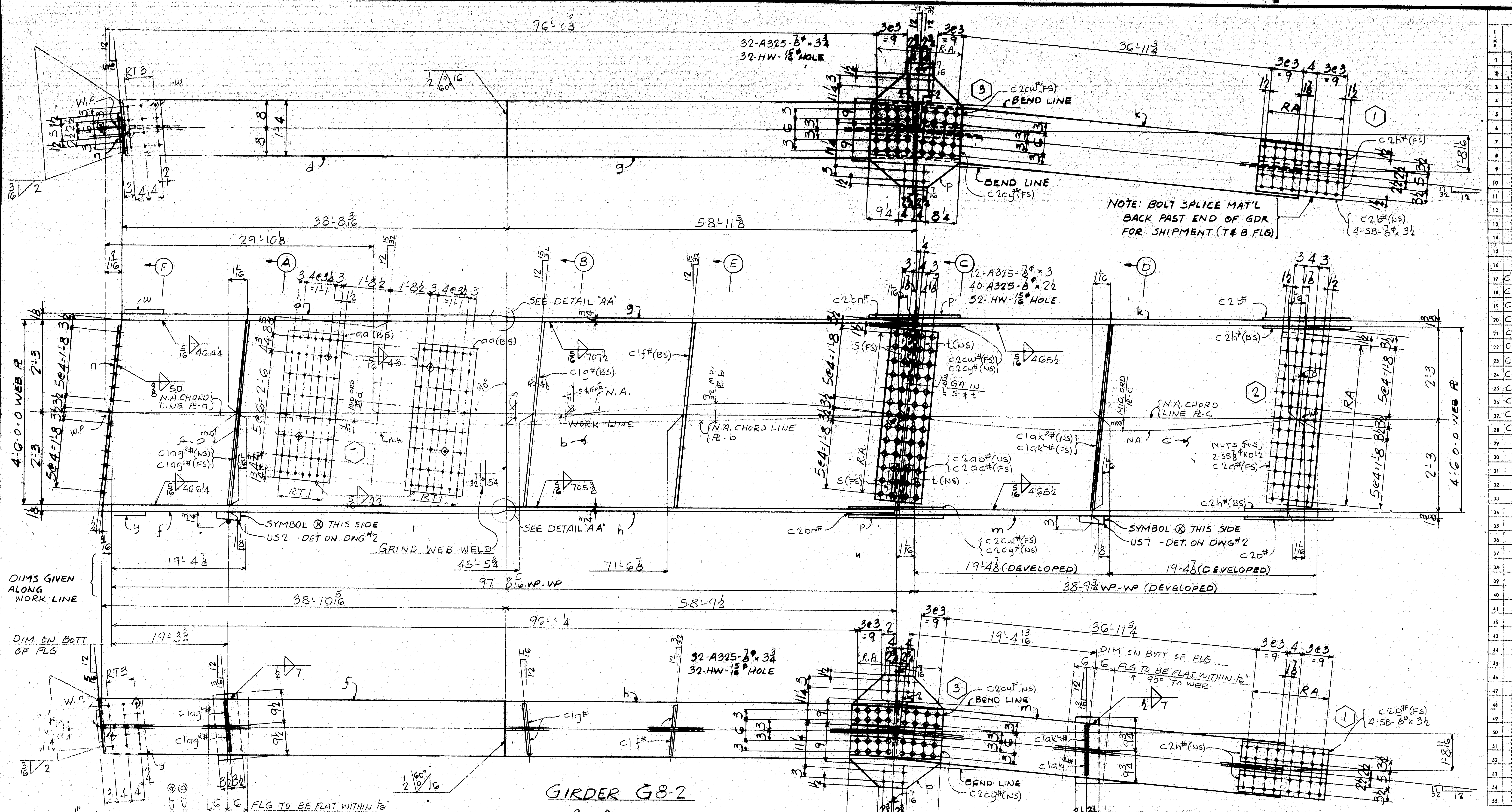
NO	DATE	REV.
0		
9		
8		
7		
6		
5		
4		
3		
2		
S1	12-3-0	[illegible]

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

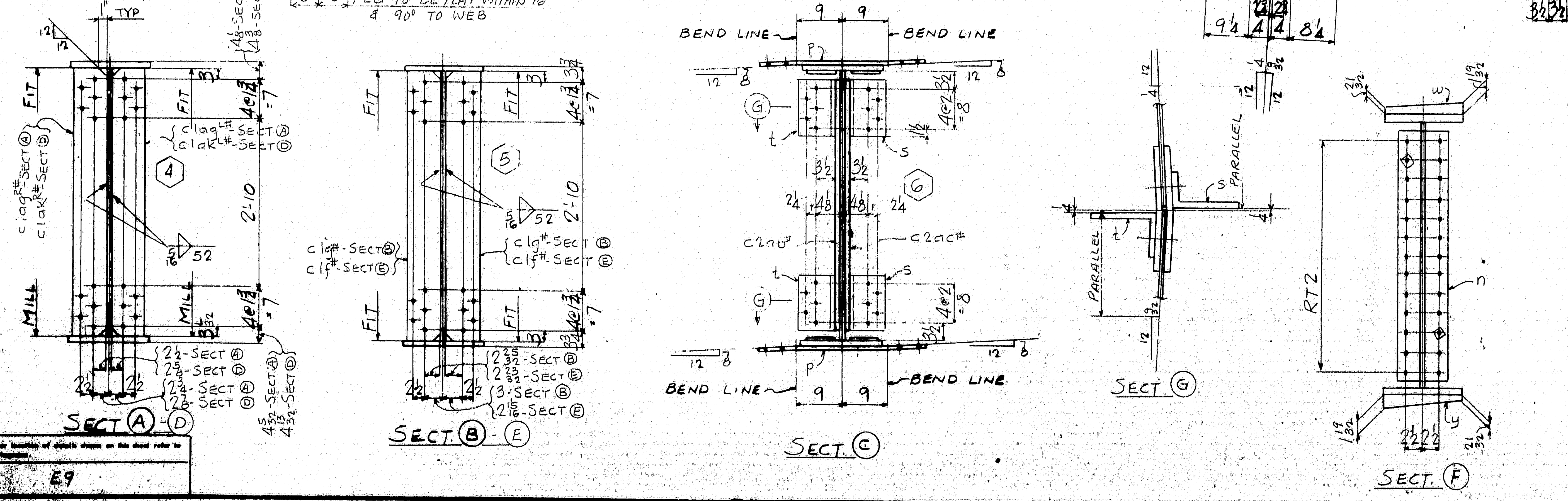
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT Nº I-95-1(22)16
CONTR Nº 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY CWG DATE 8-1-69 IN CHARGE R.K. BERTOLET
CHECKED BY FRG DATE 8-18-69 SHOP NO.
CONTRACT CJ 6249-020 DRAWING NO. 157

3

106-155



GIRDER G8-2



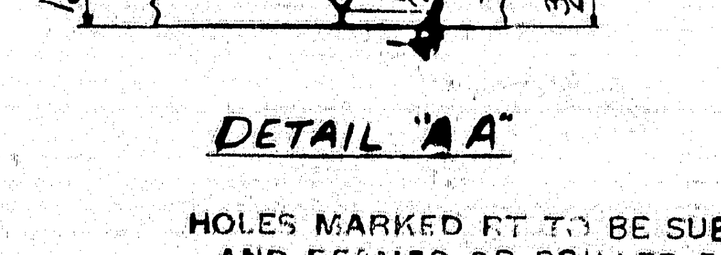
RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - HP 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"	[illegible] DEG.
OVER 1 1/2" TO 2 1/2"	[illegible] DEG.
OVER 2 1/2"	225 DEG.



DETAIL "AA"

HOLES MARKED RT TO BE SUB-PUNCHED 1/4" AND REAMED OR DRILLED FROM THE SOLID TO A METAL TEMPLET

DOWELS IN ℞-US2 TO BE PROTECTED DURING SHIPMENT.

APPROVED
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Anasl Novitzky OCT 3

MATERIAL A36 STEEL
RIVETS OR BOLTS 7/8" A325
OPEN HOLES 15/16"
A325 FIELD BOLTS 7/8"
SHOP CONTACT SURFACES NO PAINT
MILLING - AS NOTED
WELDING - AS NOTED
PAINT ONE COAT AASHO-M72 TYPE II RED LEAD (U.N.)

SHOP BILL

LINE	ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SIZE OR POUNDS	THICK	LENGTH FT.	LENGTH IN.	REMARKS	FT.	IN.		
1		1	- GIRDER			G8-2							
2	a	1	PL	54		1/2	38	10 5/16	56 x 1/2	39	4 3/4	17	
3	b	1	PL	54		7/16	58	11 1/2	56 1/2 x 7/16	59	6 3/4	[illegible]	
4	c	1	PL	54		1/2	38	11 5/8	56 x 1/2	39	4 3/4	17	
5	d	1	PLU	16		1 3/8	38	8 3/8		39	1 1/2	20	
6	f	1	PLU	16		1 3/8	38	10 1/2		39	1 1/2	20	
7	g	1	PLU	16		3/4	58	11 11/16		59	3	22	
8	h	1	PLU	16		3/4	58	9 9/16		59	3	22	
9	k	1	PLU	16		1 3/8	38	9 11/16		39	1 1/2	21	
10	m	1	PLU	16		1 3/8	38	9 11/16		39	1 1/2	21	17
11	n	1	PL	8		1/2	4	2				J	
12	p	2	PL	25 1/2		1/2	2	7 1/2	(BENT)	22	4	24	45
13	s	2	L	7	3 1/4	1/2	0	11	(BENT) C.F. 7 x 4 x 1/2	40	0	36	39
14	t	2	L	7	3 1/4	1/2	0	11	(BENT) C.F. 7 x 4 x 1/2	40	0	36	39
15	w	1	PL	12		21/32 x 1 19/32	1	4	C.F. CROPS			J	
16	y	1	PL	12		21/32 x 1 19/32	1	4	C.F. CROPS			J	
17	C 1g#	2	BR	7		1/2	4	6	(F2E)	18	4	24	51
18	C 1f#	2	BR	7		1/2	4	6	(F2E)	18	4	24	51
19	C 1ag R/L #	1/1	BR	7 1/2		3/4	4	6 1/32	(MIE)(FIE)	18	4	24	49
20	C 1ak R/L #	1/1	BR	7 1/2		3/4	4	6 1/32	(MIE)(FIE)	18	4	24	49
21	C 2bn#	2	PL	12 7/8		5/8	1	4	CF 15 1/2 x 5/8	20	2	24	44
22	C 2cy#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
23	C 2cw#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
24	C 2ab#	1	PLU	13		3/8	4	2	(BENT)	21	1	24	48
25	C 2ac#	1	PLU	13		3/8	4	2	(BENT)	21	1	24	48
26	C 2a#	1	PLU	13		3/8	4	2		21	1	24	48
27	C 2b#	2	PLU	15		1/2	2	1		21	3	24	47
28	C 2h#	4	BR	6 1/2		1/2	2	1		19	0	24	50
29	aa	4	PL	22		1 3/8	3	7		30	2	34	02
30	US2	1	UPPER	SHOE					(DET. ON DWG #2)				
31	US7	1	UPPER	SHOE					(DET. ON DWG #2)				
32		12	325	7/8 φ			0	3					
33		40	325	7/8 φ			0	2 1/2					
34		64	325	7/8 φ			0	3 3/4				M	
35		116	HW	1 3/4 φ	15/16 φ	3/16							
36		8	SB	7/8 φ			0	3 1/2	HEX HD & NUT				
37		2	SB	7/8 φ			0	2	HEX HD & NUT			M	
38	FW	1	WD			3/16	0	8					
39	FWS	1	WD			5/16	112	8					
40	FWL	1	WD			5/16	545	8 3/4					
41	FWS	1	WD			3/8	8	4					
42	FW	1	WD			1/2	2	4					
43	SDS	1	WD			7/16	4	6					
44	VGOS	1	WD			3/4	2	8					
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													

INSTALLMENT - 8W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G8-2	GIRDER (44 1/2 x 62 x 137-1/8)	

PAY ITEM - 504.711

GIRDER

CUSTOMER
MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT Nº I-95-1(22)16
CONTR Nº 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY CWG DATE 8-6-69 IN CHARGE R.K. B[illegible]
CHECKED BY FRG DATE 8-15-69 SHOP NO. 2
CONTRACT CJ 6249-020 DRAWING NO. 15[illegible]

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

NO	DATE	INIT.
0		
9		
8		
7		
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3		
2		
1		

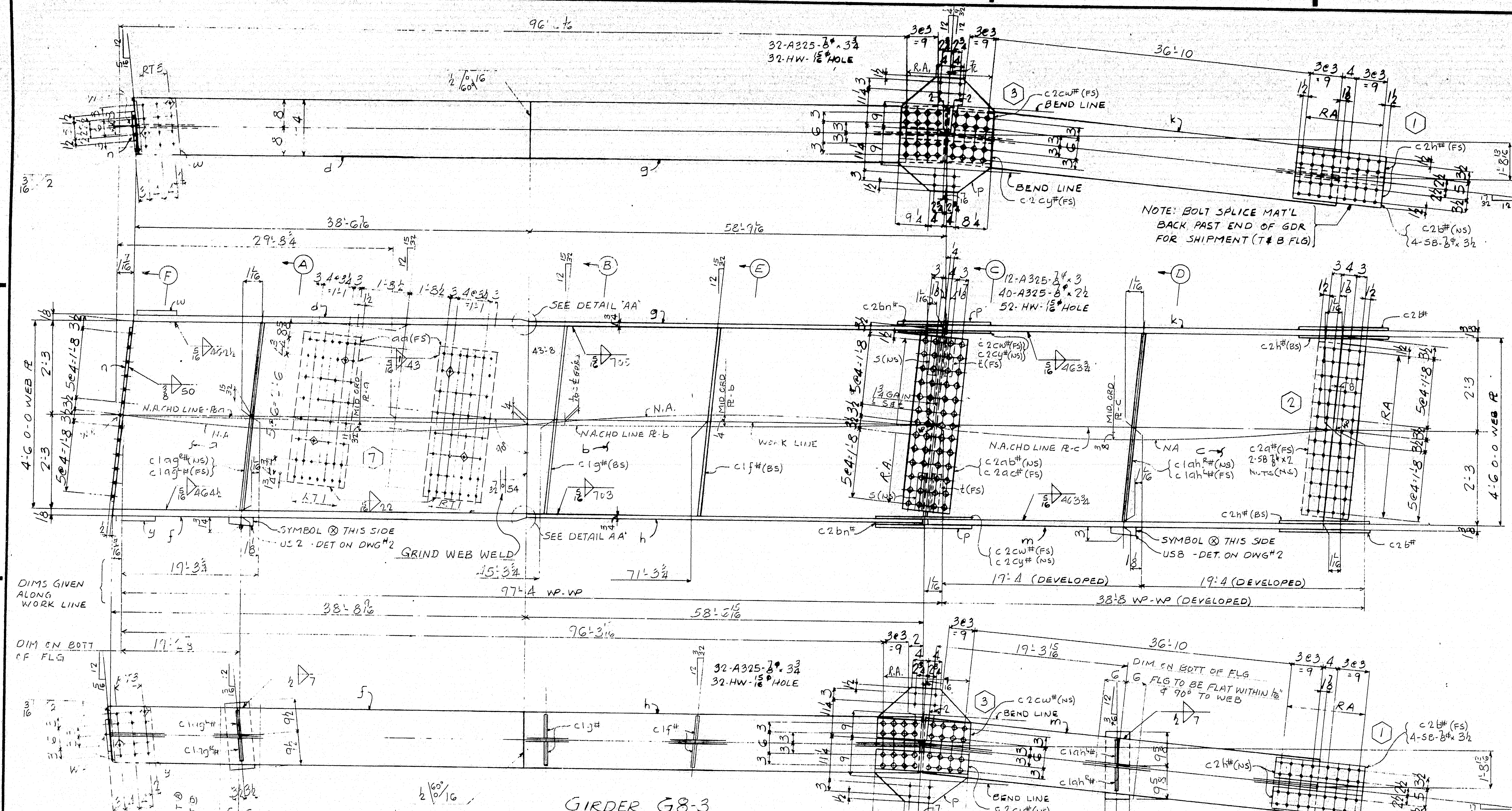
REVISION

For location of details shown on this sheet refer to diagram

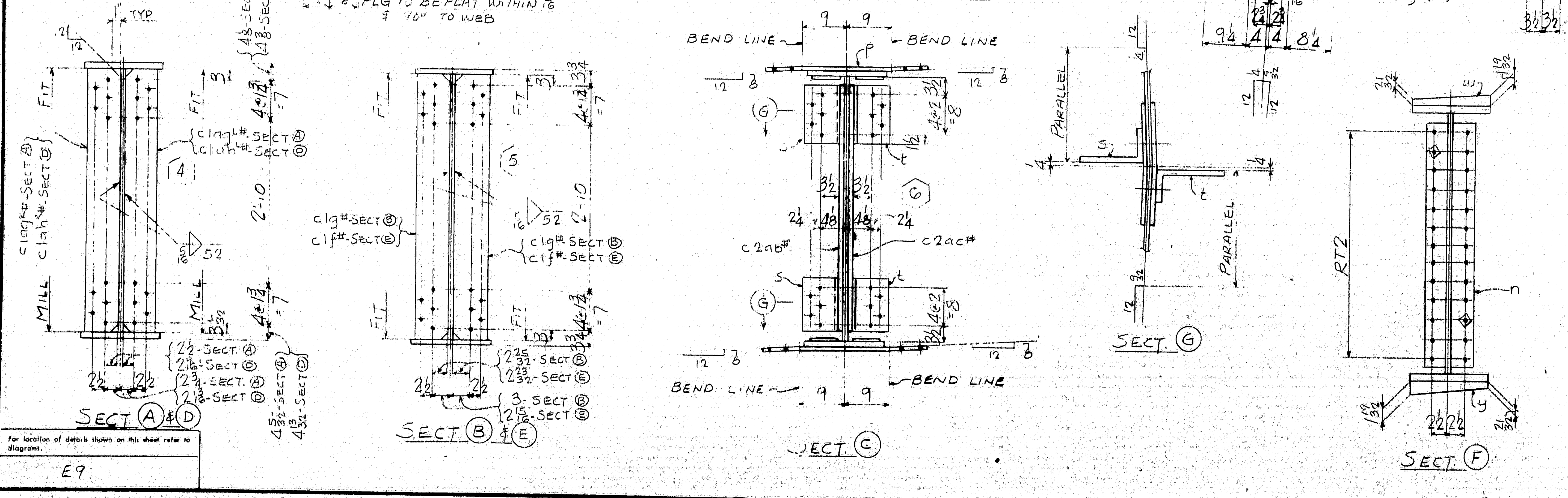
E9

3

1/66-#56



GIRDER G8-3



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

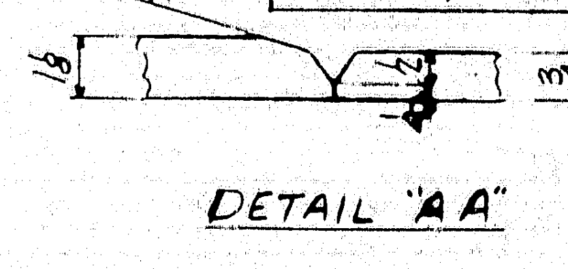
NO TACK WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

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

DOWELS IN ℞-US2 TO BE PROTECTED DURING SHIPMENT

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Anatol Novitzky OCT 3

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.



DETAIL "AA"

HOLES MARKED RT TO BE SUB-PUNCHED 1/4" AND REAMED OR DRILLED FROM THE SOLID TO A METAL TEMPLET

MATERIAL A36 STEEL
RIVETS OR BOLTS 7/8φ A325
OPEN HOLES 15/16φ
A325 FIELD BOLTS 7/8φ
SHOP CONTACT SURFACES NO PAINT
MILLING - AS NOTED
WELDING - AS NOTED
PAINT ONE COAT AASHO-M72 TYPE II RED LEAD (U.N.)

SHOP BILL

LINE	ASSEMBLY MARK	NO	SHAPE	SECTION SIZE	SIZE OR POUNDS	THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	[illegible]	[illegible]
1		1	- GIRDER			G8-3							
2	a	1	PL	54		1/2	38	8 9/16	56×1/2	39	4 3/4	17	16
3	b	1	PL	54		7/16	58	8 13/16	56 1/2×7/16	59	6 1/4	18	16
4	c	1	PL	54		1/2	38	9 7/8	56×1/2	39	4 3/4	17	16
5	d	1	PLU	16		1 1/8	38	6 5/8		39	1 1/2	20	16
6	f	1	PLU	16		1 1/8	38	8 3/4		39	1 1/2	20	16
7	g	1	PLU	16		3/4	59	9 1/8		59	3	22	16
8	h	1	PLU	16		3/4	58	7		59	3	22	16
9	k	1	PLU	16		1 3/8	38	7 15/16		39	1 1/2	21	17
10	m	1	PLU	16		1 3/8	38	7 15/16		39	1 1/2	21	17
11	n	1	PL	8		1/2	4	2				J	
12	p	2	PL	25 1/2		1/2	2	7 1/2	(BENT)	22	4	24	45
13	s	2	L	7	3 1/4	1/2	0	11	(BENT) C.F. 7×4×1/2	40	0	36	39
14	t	2	L	7	3 1/4	1/2	0	11	(BENT) C.F. 7×4×1/2	40	0	36	39
15	w	1	PL	12		21/32×1 19/32	1	4	C.F. CROPS			J	
16	y	1	PL	12		21/32×1 19/32	1	4	C.F. CROPS			J	
17	C 1g#	2	BR	7		1/2	4	6	(F2E)	18	4	24	51
18	C 1f#	2	BR	7		1/2	4	6	(F2E)	18	4	24	51
19	C 1ag R/L#	1/1	BR	7 1/2		3/4	4	6 1/32	(M1E)(F1E)	18	4	24	49
20	C 1ah R/L#	1/1	BR	7 1/2		3/4	4	6 1/32	(M1E)(F1E)	18	4	24	49
21	C 2bn#	2	PL	12 7/8		5/8	1	4	CF 15 1/2×5/8	20	2	24	44
22	C 2cw#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
23	C 2cy#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
24	C 2ab#	1	PLU	13		3/8	4	2	(BENT)	21	1	24	48
25	C 2ac#	1	PLU	13		3/8	4	2	(BENT)	21	1	24	48
26	C 2a#	1	PLU	13		3/8	4	2		21	1	24	48
27	C 2b#	2	PLU	15		1/2	2	1		21	3	24	47
28	C 2h#	4	BR	6 1/2		1/2	2	1		19	0	24	50
29	aa	2	PL	22		1 3/8	3	7		30	2	34	02
30	US2	1	UPPER	SHOE					(DET. ON DWG #2)				
31	US8	1	UPPER	SHOE					(DET. ON DWG #2)				
32		12	325	7/8φ			0	3					
33		40	325	7/8φ			0	2 1/2					
34		64	325	7/8φ			0	3 3/4				M	
35		116	HW	1 1/4φ	15/16φ	3/16							
36		8	SB	7/8φ			0	3 1/2	HEX HD & NUT				
37		2	SB	7/8φ			0	2	HEX HD & NUT			M	
38	FW	1	WD			3/16	0	8					
39	FWS	1	WD			5/16	91	0					
40	FWL	1	WD			5/16	543	9					
41	FWS	1	WD			3/8	8	4					
42	FW	1	WD			1/2	2	4					
43	SDS	1	WD			7/16	4	6					
44	V60S	1	WD			3/4	2	8					
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													

INSTALLMENT - 8W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G8-3	GIRDER (44 1/2 × 62 × 137'-2 5/8)	

PAY ITEM - 504.711

GIRDER

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

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY CWG DATE 8-7-69 IN CHARGE B.K. BERTOLET
CHECKED BY FRG DATE 8-15-69 SHOP NO. 2
CONTRACT CJ 6249-020 DRAWING NO. 159

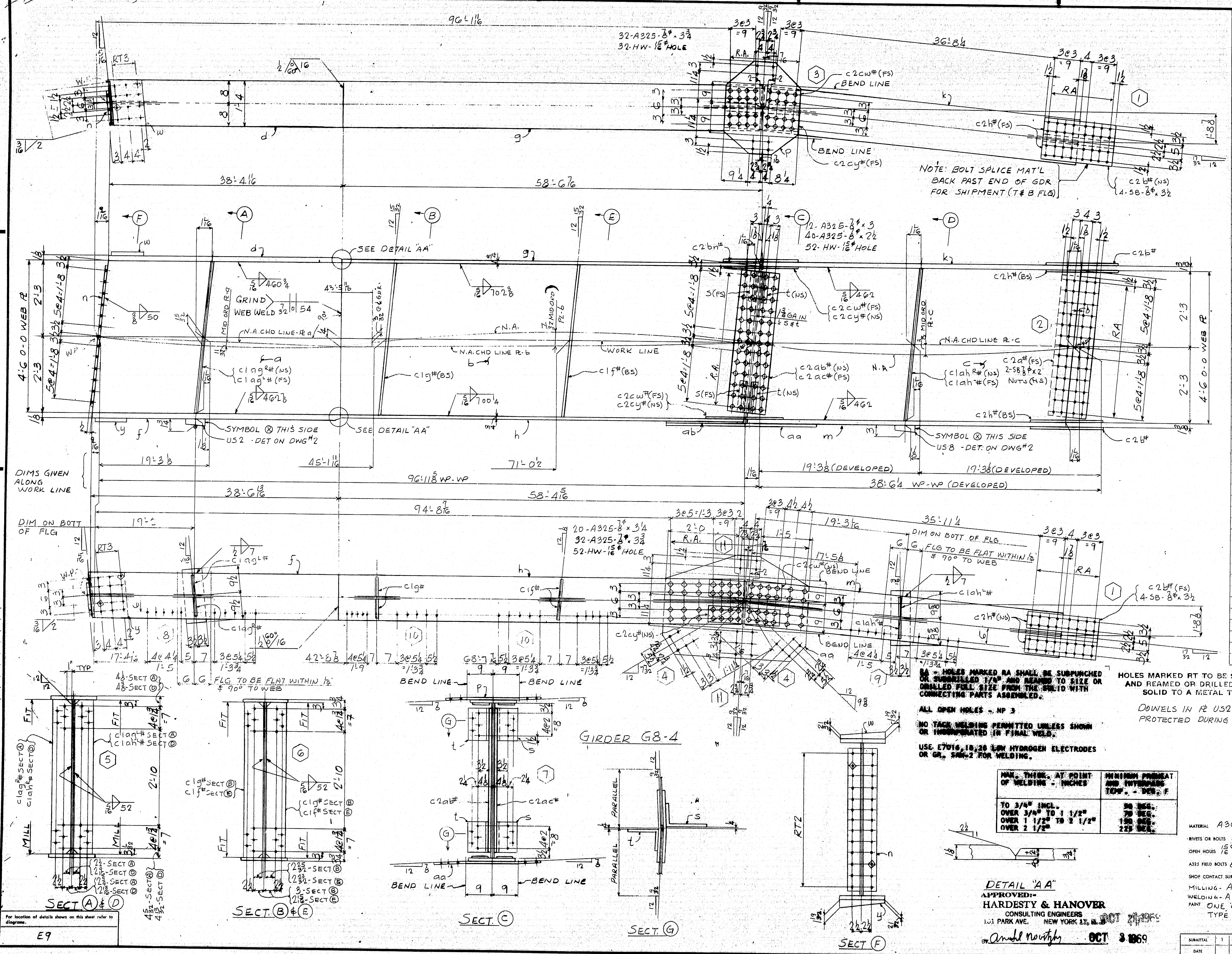
REVISION NO	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

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

For location of details shown on this sheet refer to diagram: E9

3

SEP 26



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.

HOLES MARKED RT TO BE SUB-PUNCHED 1/4" AND REAMED OR DRILLED FROM THE SOLID TO A METAL TEMPLET

DOWELS IN PL US2 TO BE PROTECTED DURING SHIPMENT.

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Arnold Novitzky OCT 3 1969

MATERIAL A36 STEEL
RIVETS OR BOLTS 7/8ϕ A325
OPEN HOLES 15/16ϕ
A325 FIELD BOLTS 7/8ϕ
SHOP CONTACT SURFACES NO PAINT
MILLING - AS NOTED
WELDING - AS NOTED
PAINT ONE COAT AASHO-M72 TYPE II RED LEAD (U.N.)

SHOP BILL

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		1	GIRDER			G8-4							
2	a	1	PL	54		1/2	38	6 13/16	56 x 1/2	38	11 1/2	17	17
3	b	1	PL	54		7/16	58	6 5/16	56 1/2 x 7/16	59	6 1/4	18	16
4	c	1	PL	54		1/2	35	(8 1/2) D1	56 x 1/2	38	11 1/2	17	17
5	d	1	PLU	16		1 1/8	38	4 7/8		39	1 1/2	20	16
6	f	1	PLU	16		1 1/8	38	7		39	1 1/2	20	16
7	g	1	PLU	16		3/4	58	6 1/2		59	3	22	16
8	h	1	PLU	16		3/4	58	4 3/8		59	3	22	16
9	k	1	PLU	16		1 3/8	38	6 3/16		39	1 1/2	21	17
10	m	1	PLU	16		1 3/8	38	6 3/16		39	1 1/2	21	17
11	n	1	PL	8		1/2	4	2				J	
12	p	1	PL	25 1/2		1/2	2	7 1/2	(BENT)	22	4	24	45
13	s	2	L	7	3 1/4	1/2	0	11	(BENT) C.F. 7 x 4 x 1/2	40	0	36	39
14	t	2	L	7	3 1/4	1/2	0	11	(BENT) C.F. 7 x 4 x 1/2	40	0	36	39
15	w	1	PL	12	21/32 x 1 19/32	1		4 9/16	C.F. CROPS			J	
16	y	1	PL	12	21/32 x 1 19/32	1		4 9/16	C.F. CROPS			J	
17	aa	1	PL	35 1/4		5/8	4	1	BENT MULTS CF 36 X 5/8	4	1 1/4	28	15
18	ab	1	PL	16		5/8	2	3 1/2				J	
19	C 1g#	2	BR	7		1/2	4	6	(F2E)	18	4	24	51
20	C 1f#	2	BR	7		1/2	4	6	(F2E)	18	4	24	51
21	C 1ag R/L #	1 / 1	BR	7 1/2		3/4	4	6 1/32	(M1E)(F1E)	18	4	24	49
22	C 1ah R/L #	1 / 1	BR	7 1/2		3/4	4	6 1/32	(M1E)(F1E)	18	4	24	49
23	C 2bn#	1	PL	12 7/8		5/8	1	4	CF 15 1/2 x 5/8	20	2	24	44
24	C 2cw#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
25	C 2cy#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
26	C 2ab#	1	PLU	13		3/8	4	2	(BENT)	21	1	24	48
27	C 2ac#	1	PLU	13		3/8	4	2	(BENT)	21	1	24	48
28	C 2a#	1	PLU	13		3/8	4	2		21	1	24	48
29	C 2b#	2	PLU	15		1/2	2	1		21	3	24	47
30	US2	1	UPPER SHOE						(DET. ON DWG #2)				
31	US8	1	UPPER SHOE						(DET. ON DWG #2)				
32		12	325	7/8ϕ			0	3					
33		40	325	7/8ϕ			0	2 1/2					
34		64	325	7/8ϕ			0	3 3/4				M	
35		116	HW	1 3/4ϕ	15/16ϕ	3/16							
36		8	SB	7/8ϕ			0	3 1/2	HEX HD & NUT				
37		2	SB	7/8ϕ			0	2	HEX HD & NUT			M	
38	FW	1	WD			3/16	0	8					
39	FWS	1	WD			5/16	69	4					
40	FWL	1	WD			5/16	541	8 1/2					
41	FWS	1	WD			3/8	8	4					
42	FW	1	WD			1/2	2	4					
43	SDS	1	WD			7/16	4	6					
44	V60S	1	WD			3/4	2	8					
45													
46	C 102h#	4	BR	6 1/2		1/2	2	1		19	0	24	50
47													
48													
49													
50													
51													
52													
53													
54													
55													

INSTALLMENT - 8W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G8-4	GIRDER (44 1/2 x 60 3/4 x 136'-8 1/2)	

PAY ITEM - 504.711

GIRDER

REVISION NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
D1	10-21-69	FRS

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
CONTR Nº 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY CWG DATE 8-11-69 IN CHARGE B. K. BERTOLET
CHECKED BY FRS DATE 8-18-69 SHOP NO. 2
CONTRACT CJ 6249-020 DRAWING NO. 160

For location of details shown on this sheet refer to diagrams.
E9

a	b	c

INCHES 0 1 2 3 4 5

IDL # 4/06 - 13 - 8 SEP 26

GIRDER G8-5

WORK THIS DWG WITH DWG 161A

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

E9

APPROVED
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Cimbel Noviteky OCT 3 1969

MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SHOP CONTACT SURFACES
PAINT

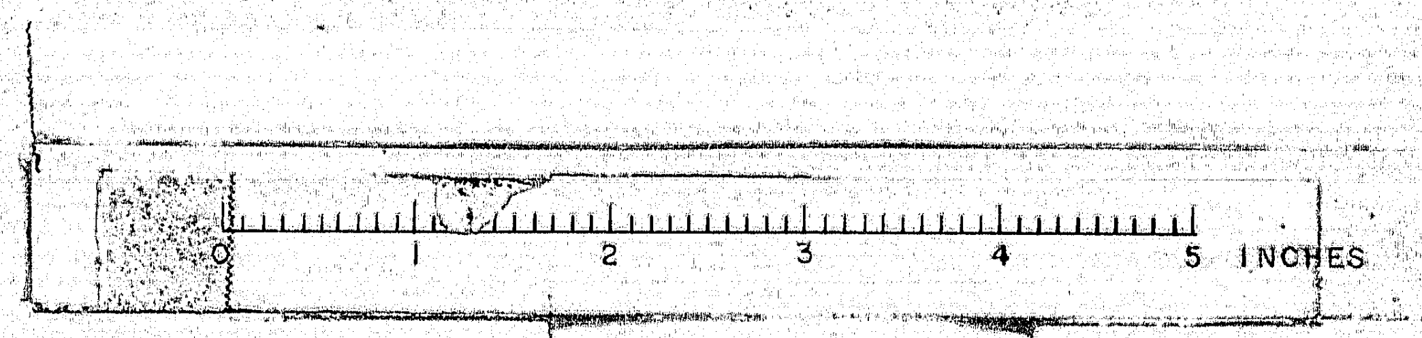
FOR GEN. NOTES SEE DWG 161A

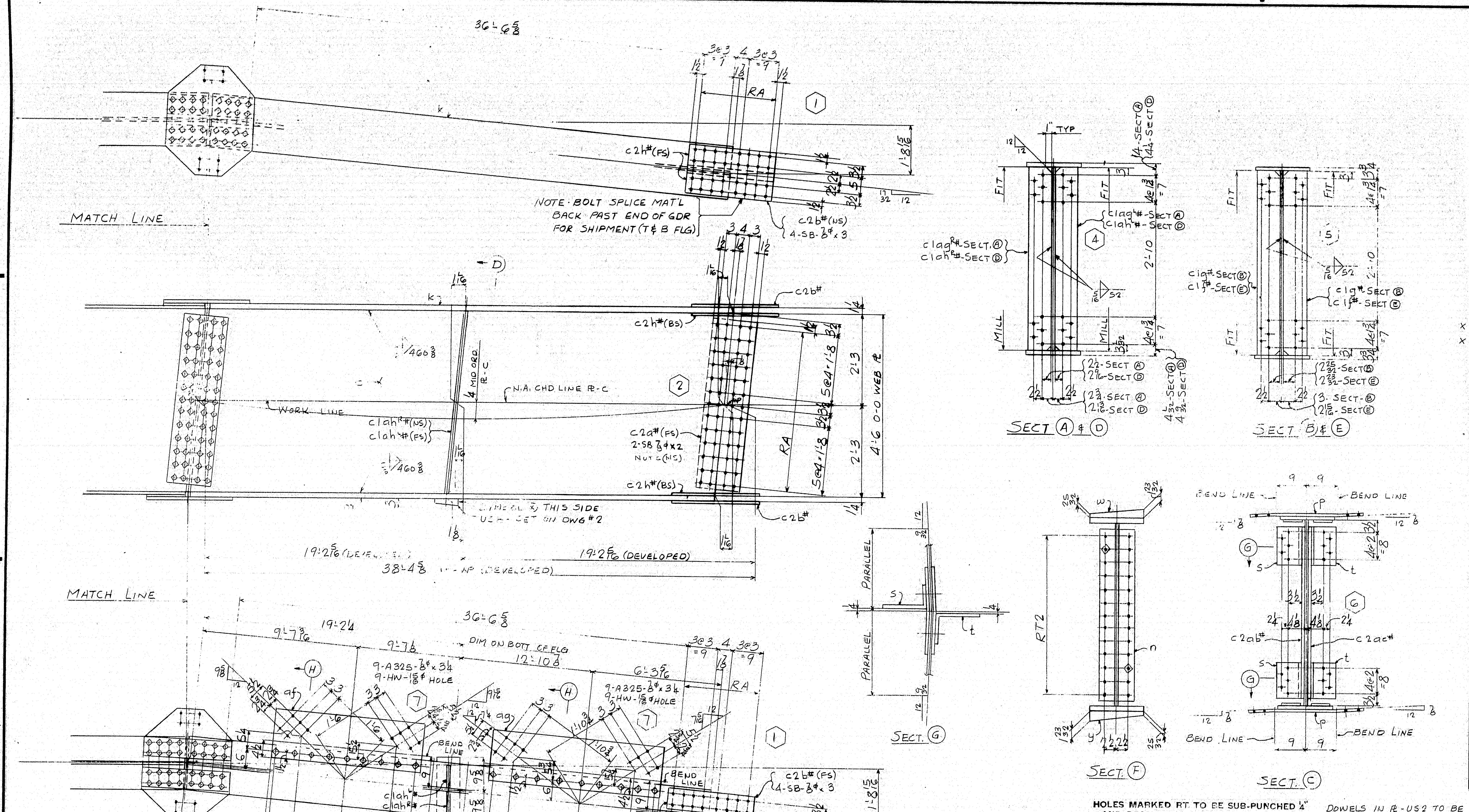
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		
NO.	DATE	INIT.
REVISION		

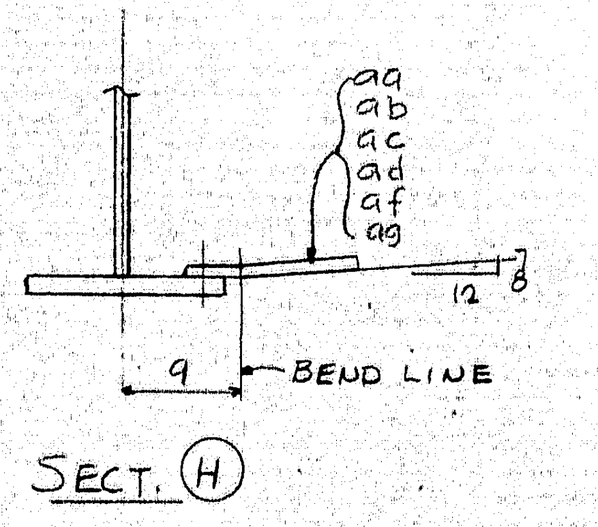
SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

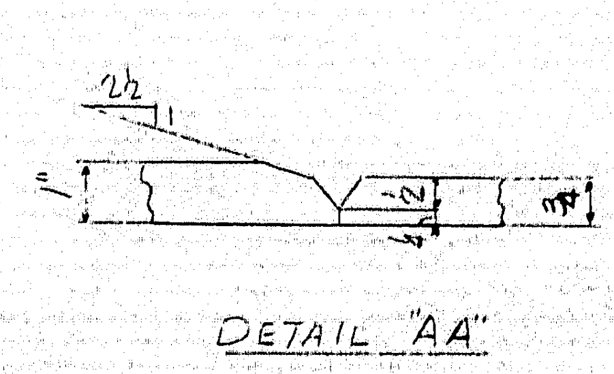
GIRDER
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
STRUCTURE PROJECT Nº I-95-1(22)16
CONTR Nº 3-NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN
MADE BY CWG DATE 8-13-69 IN CHARGE B.K.
CHECKED BY FRG DATE 8-18-69 SHOP NO. 2
CONTRACT CJ6249-020 DRAWING NO. 161

3 106-15









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

SHOP BILL / MILL ORDER

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		1 -	GIRDER			G8-5							
2	a	1	PL	54		1/2	38	5 3/16	56 x 1/2	38	11 1/2	17	17
3	b	1	PL	54		7/16	58	3 5/8	56 1/2 x 7/16	59	6 1/4	18	16
4	c	1	PL	54		1/2	38	6 1/2	56 x 1/2	38	11 1/2	17	17
5	d	1	PLU	16		1	38	3 1/4		38	6 1/2	20	17
6	f	1	PLU	16		1	38	5 3/8		38	6 1/2	20	17
7	g	1	PLU	16		3/4	58	3 13/16		59	3	22	16
8	h	1	PLU	16		3/4	58	1 11/16		59	3	22	16
9	k	1	PLU	16		1 1/4	38	4 9/16		38	6 1/2	21	18
10	m	1	PLU	16		1 1/4	38	4 9/16		38	6 1/2	21	18
11	n	1	PL	8		1/2	4	2				J	
12	p	2	PL	25 1/2		1/2	2	7 1/2	(BENT)	22	4	24	45
13	s	2	L	7	3 1/4	1/2	0	11	(BENT) C.F. 7 x 4 x 1/2	40	0	36	39
14	t	2	L	7	3 1/4	1/2	0	11	(BENT) C.F. 7 x 4 x 1/2	40	0	36	39
15	w	1	PL	12		25/32 x 1 23/32	1	4 [illegible]	C.F. CROPS			J	
16	y	1	PL	12		25/32 x 1 23/32	1	4 [illegible]	C.F. CROPS			J	
17	aa	1	PL	14 1/2		5/8	3	8	(BENT)	26	0	28	19
18	ab	1	PL	14 1/2		5/8	4	7	(BENT)	26	0	28	19
19	ac	1	PL	14 1/2		5/8	4	7	(BENT)	26	0	28	19
20	ad	1	PL	14 1/2		5/8	4	8	(BENT)	26	0	28	19
x 21	af	1	PL	14 1/2		5/8	3	8	(BENT)	26	0	28	19
x 22	ag	1	PL	14 1/2		5/8	4	7	(BENT)	26	0	28	19
23	C 1g#	2	BR	7		1/2	4	6	(F2E)	18	4	24	51
24	C 1f#	2	BR	7		1/2	4	6	(F2E)	18	4	24	51
25	C 1ag R/L #	1/1	BR	7 1/2		3/4	4	6 1/32	(MIE)(FIE)	18	4	24	49
26	C 1ah R/L #	1/1	BR	7 1/2		3/4	4	6 1/32	(MIE)(FIE)	18	4	24	49
27	C 2bm#	2	PL	16		1/2	1	0 7/8		20	2	24	46
28	C 2cw#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
29	C 2cy#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
30	US2	1	UPPER SHOE						(DET ON DWG #2)				
31	US8	1	UPPER SHOE						(DET ON DWG #2)				
32		30	325	7/8φ			0	3					
33		40	325	7/8φ			0	2 1/2					
34		64	325	7/8φ			0	3 1/2					
35		18	325	7/8φ			0	3 1/4				M	
36		170	HW	1 3/4	15/16	3/16							
37		8	SB	7/8φ			0	3 1/4	HEX HD & NUT				
38		18	325	7/8φ			0	2 3/4					
39	FW	1	WD			3/16	0	8					
40	FWS	1	WD			5/16	69	4					
41	FWL	1	WD			5/16	539	9 3/4					
42	FWS	1	WD			3/8	8	4					
43	FW	1	WD			1/2	2	4					
44	SDS	1	WD			7/16	4	6					
45	V60S	1	WD			3/4	2	8					
46													
47	C 2ab#	1	PLU	13		3/8	4	2	(BENT)	21	1	24	48
48	C 2ac#	1	PLU	13		3/8	4	2	(BENT)	21	1	24	48
49	C 2a#	1	PLU	13		3/8	4	2		21	1	24	48
50	C 2b#	2	PLU	15		1/2	2	1		21	3	24	47
51	C 2h#	4	BR	6 1/2		1/2	2	1		19	0	24	50
52													
53		8	SB	7/8φ			0	2	HEX HD & NUT			M	
54													
55													

HOLES MARKED RT TO BE SUB-PUNCHED 1/4" AND REAMED OR DRILLED FROM THE SOLID TO A METAL TEMPLET

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.

DOWELS IN ℄-US2 TO BE PROTECTED DURING SHIPMENT

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.

INSTALLMENT - 8W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G8-5	GIRDER (44 1/2 x 62 x 136'-2 3/4)	

PAY ITEM - 504.711

GIRDER 8W

MATERIAL A36 STEEL
RIVETS OR BOLTS 7/8φ A325
OPEN HOLES 15/16φ
A325 FIELD BOLTS 7/8φ
SHOP CONTACT SURFACES NO PAINT
MILLING - AS NOTED
WELDING - AS NOTED
PAINT ONE COAT AASHO-M72 TYPE II RED LEAD (U.N.)

WORK THIS DWG WITH DWG 161

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Anebel Novitzky OCT 3 1969

For location of details shown on this sheet refer to diagrams.
E9

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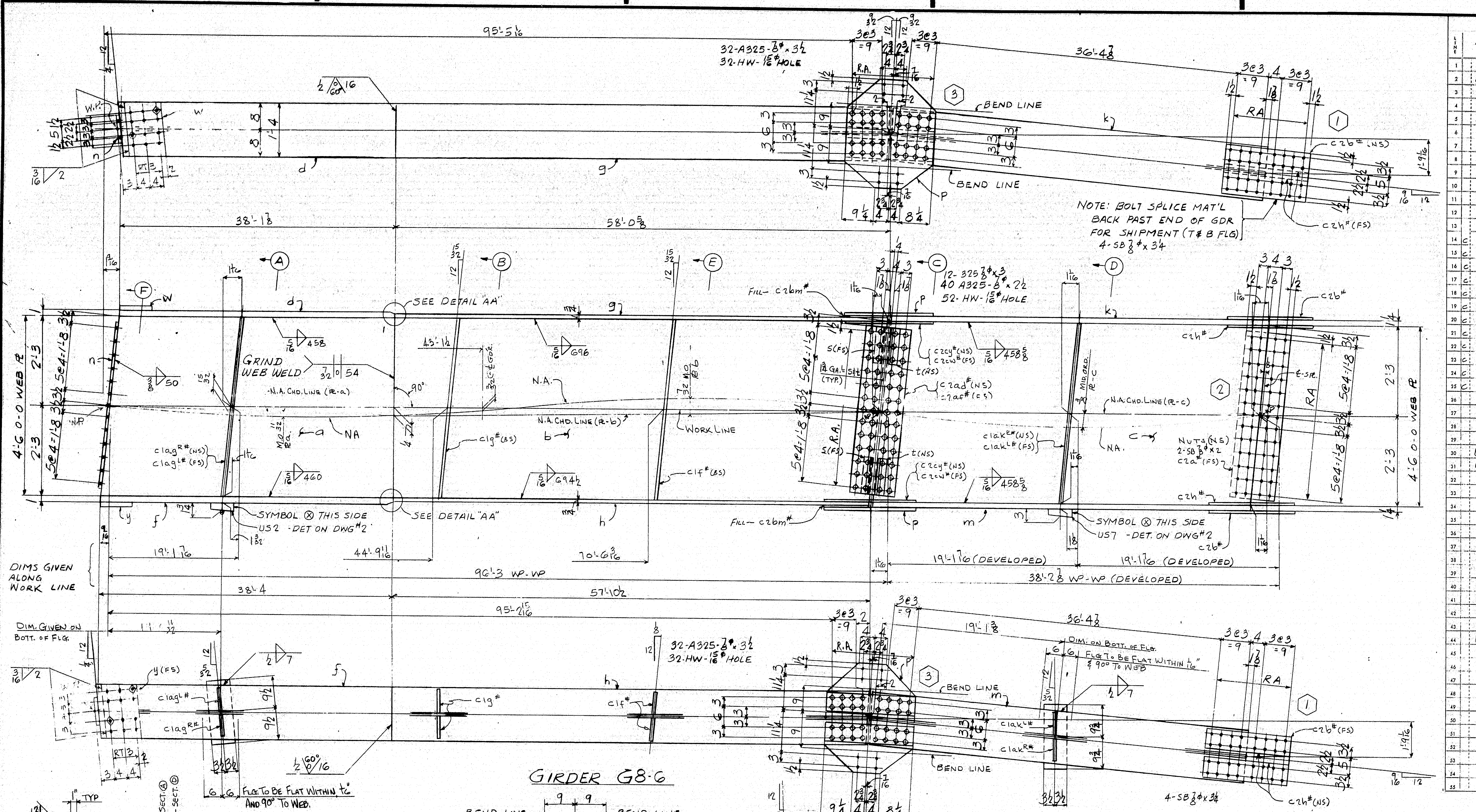
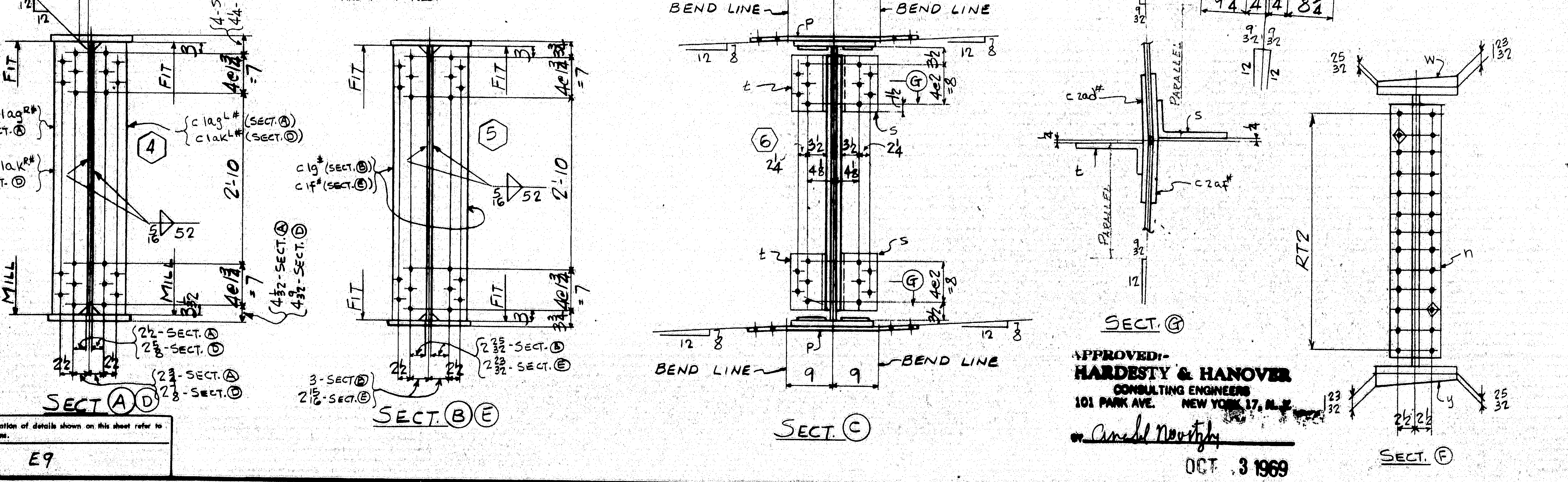
SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

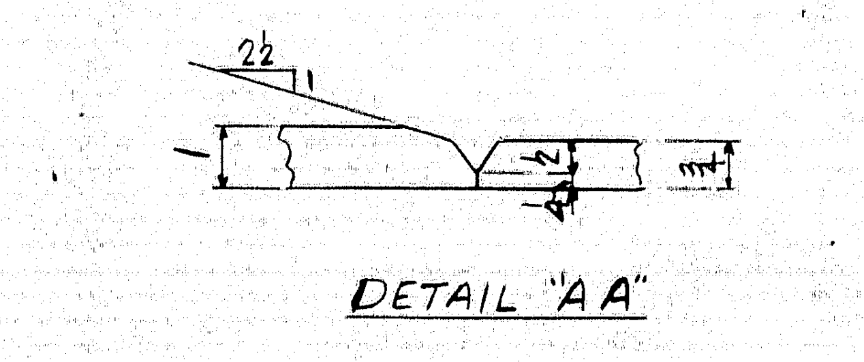
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT Nº I-95-1(22)16
CONTR Nº 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY CWG DATE 8-13-69 IN CHARGE B.K. BERTOLET
CHECKED BY FEG DATE 8-18-69 SHOP NO. 2
CONTRACT CJ6249-020 DRAWING NO. 161A

3 106-160





APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Arnold Novotny
OCT. 3 1969



DETAIL "AA"

LINE		ASSEMBLY MARK	NO.	SHAPE	SIZE	SIZE OR POUNDS	THICK	FT.	IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1			1	- GIRDER			G8-6							
2		a	1	PL	54		1/2	38	4	56×1/2	38	11½	17	17
3		b	1	PL	54		7/16	58	0½	56½×7/16	58	5½	18	17
4		c	1	PL	54		1/2	38	4¾	56×1/2	38	11½	17	17
5		d	1	PLU	16		1	38	2 1/16		38	6½	20	17
6		f	1	PLU	16		1	38	4 3/16		38	6½	20	17
7		g	1	PLU	16		3/4	58	0 11/16		58	2¼	22	17
8		h	1	PLU	16		3/4	57	10 9/16		58	2¼	22	17
9		k	1	PLU	16		1¼	38	2 13/16		38	6½	21	18
10		m	1	PLU	16		1¼	38	2 13/16		38	6½	21	18
11		n	1	PL	8		1/2	4	2				J	
12		p	2	PL	25½		1/2	2	7½	BENT	22	4	24	45
13		s	2	L	7	3¼	1/2	0	11	CF 7×4×½ (BENT)	40	0	36	39
14	c	1ag R/L #	1/1	BR	7½		3/4	4	6 1/32	MIE FIE	18	4	24	49
15	c	1ak R/L #	1/1	BR	7½		3/4	4	6 1/32	MIE FIE	18	4	24	49
16	c	1g#	2	BR	7		1/2	4	6	FZE	18	4	24	51
17	c	1f#	2	BR	7		1/2	4	6	FZE'	18	4	24	51
18	c	2bm#	2	PL	16		1/2	1	0 7/8		20	2	24	46
19	c	2cy#	2	BR	6½		1/2	2	1½		19	0	24	50
20	c	2cw#	2	BR	6½		1/2	2	1½		19	0	24	50
21	c	2ad#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
22	c	2af#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
23	c	2a#	1	PLU	13		3/8	4	2		21	1	24	48
24	c	2b#	2	PLU	15		1/2	2	1		21	3	24	47
25	c	2h#	4	BR	6½		1/2	2	1		19	0	24	50
26		t	2	L	7	3¼	1/2	0	11	CF-7×4×½ (BENT)	40	0	36	39
27		w	1	PL	12		(1 23/32×25/32)	1	4 5/8	C.F. CROPS			J	
28		y	1	PL	12		(1 23/32×25/32)	1	4 5/8	C.F. CROPS			J	
29														
30		US2	1	UPPER	SHOE					(DET. ON DWG#2)				
31		US7	1	UPPER	SHOE					(DET. ON DWG#2)				
32			12	325	7/8φ			0	3					
33			40	325	7/8φ			0	2½					
34			64	325	7/8φ			0	3½				M	
35			116	HW	1¾	15/16	3/16							
36			8	SB	7/8φ			0	3¼	HEX HD & NUT				
37			2	SB	7/8φ			0	2	HEX HD & NUT			M	
38		FW	1	WD			3/16	0	8					
39		FWS	1	WD			5/16	69	4					
40		FWL	1	WD			5/16	537	4½					
41		FWS	1	WD			3/8	8	4					
42		FW	1	WD			1/2	2	4					
43		SDS	1	WD			7/16	4	6					
44		V60S	1	WD			3/4	2	8					
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

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.	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.

HOLES MARKED RT TO BE SUB-PUNCHED 1/4" AND REAMED OR DRILLED FROM THE SOLID TO A METAL TEMPLET

INSTALLMENT - 8W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G8-6	GIRDER (44½×62×135'-8)	

PAY ITEM - 504.711

MATERIAL A36 STEEL
RIVETS OR BOLTS 7/8φ A325
OPEN HOLES 15/16φ
A325 FIELD BOLTS 7/8φ
SHOP CONTACT SURFACES NO PAINT
MILLING - AS NOTED
WELDING - AS NOTED
PAINT ONE COAT AASHO-M72 TYPE II RED LEAD (U.N.)

REVISION NO.	DATE	INIT.
0		
9		
8		
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6		
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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
CONTR Nº 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

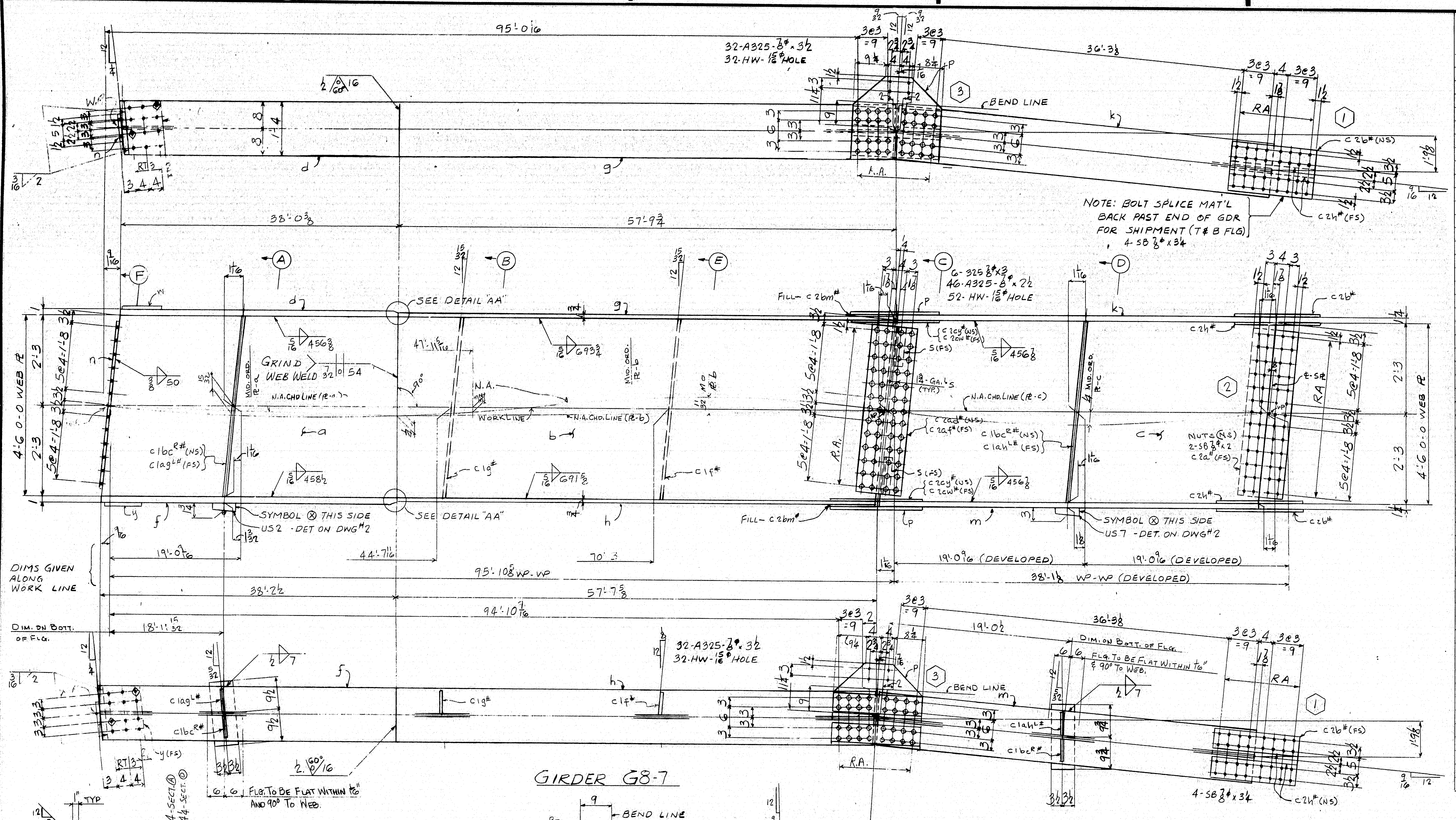
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RD DATE 8-4-69 IN CHARGE B.K. BERTOLET
CHECKED BY FCS DATE 8 20 69 SHOP NO. 2
CONTRACT CJ 6249-020 DRAWING NO. 162

For location of details shown on this sheet refer to diagram.
E9

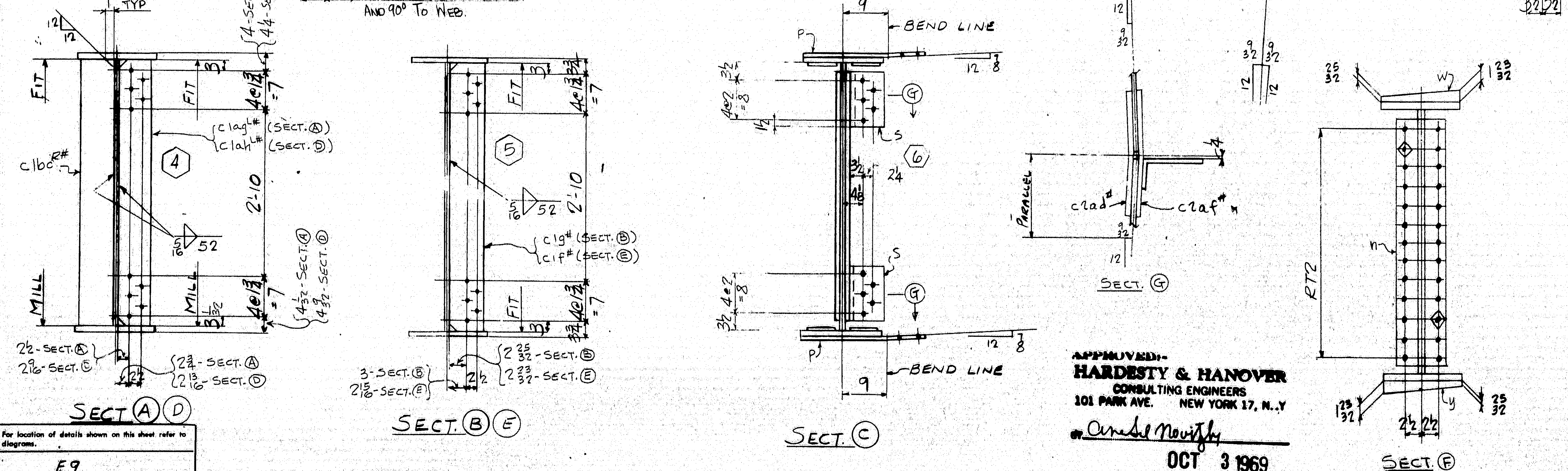
3 106 L/61

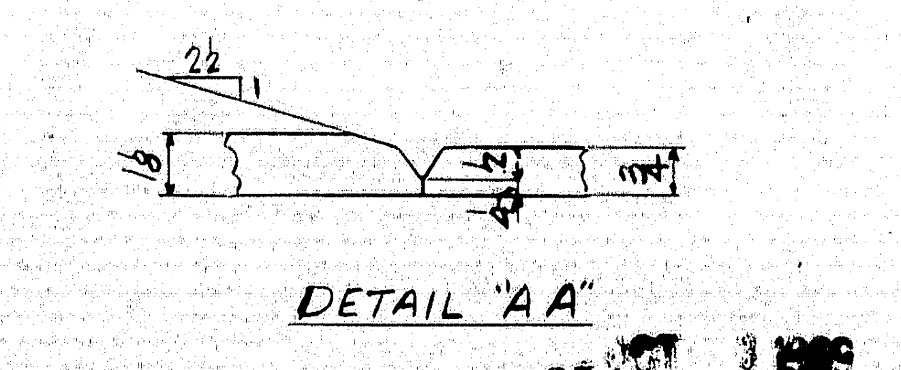
35453 (Rev. C 4-65)

SEP 26



GIRDER G8-7





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.	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.

HOLES MARKED RT TO BE SUB-PUNCHED 1/4" AND REAMED OR DRILLED FROM THE SOLID TO A METAL TEMPLET

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			1	- GIRDER			G8-7							
2		a	1	PL	54		1/2	38	2 1/2	56×1/2	38	11 1/2	17	17
3		b	1	PL	54		7/16	57	9 5/8	56 1/2×7/16	58	5 1/2	18	17
4		c	1	PL	54		1/2	38	3	56×1/2	38	11 1/2	17	17
5		d	1	PLW	16		1	38	0 9/16		38	6 1/2	20	17
6		f	1	PLW	16		1	38	2 11/16		38	6 1/2	20	17
7		g	1	PLW	16		3/4	57	9 13/16		58	2 1/4	22	17
8		h	1	PLW	16		3/4	57	7 11/16		58	2 1/4	22	17
9		k	1	PLW	16		1 1/4	38	1 1/16		38	6 1/2	21	18
10		m	1	PLW	16		1 1/4	38	1 1/16		38	6 1/2	21	18
11		n	1	PL	8		1/2	4	2				J	
12		p	2	PL	24 1/16		1/2	2	1 1/2	BENT CF25 1/2×1/2	22	4	24	45
13		s	2	L	7	3 1/4	1/2	0	11	CF 7×4×1/2 (BENT)	40	0	36	39
14		w	1	PL	12		(1 23/32×25/32)	1	4 1/2	C.F. CROPS			J	
15		y	1	PL	12		(1 23/32×25/32)	1	4 1/2	C.F. CROPS			J	
16	c	1bc R#	2	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
17	c	1ag L#	1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
18	c	1ah L#	1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
19	c	1g#	1	BR	7		1/2	4	6	F2E	18	4	24	51
20	c	1f#	1	BR	7		1/2	4	6	F2E	18	4	24	51
21	c	2a#	1	PW	13		3/8	4	2		21	1	24	48
22	c	2b#	2	PW	15		1/2	2	1		21	3	24	47
23	c	2h#	4	BR	6 1/2		1/2	2	1		19	0	24	50
24	c	2cw#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
25	c	2cy#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
26	c	2ad#	1	PLW	13		3/8	4	2	BENT	21	1	24	48
27	c	2af#	1	PW	13		3/8	4	2	BENT	21	1	24	48
28	c	2bm#	2	PL	16		1/2	1	0 3/8		20	2	24	46
29														
30		US2	1	UPPER SHOE						(DET. ON DWG #2)				
31		US7	1	UPPER SHOE						(DET. ON DWG #2)				
32			6	325	7/8φ			0	3					
33			46	325	7/8φ			0	2 1/2					
34			64	325	7/8φ			0	3 1/2				M	
35			116	HW	1 3/4	15/16	3/16							
36			8	SB	7/8φ			0	3 1/4	HEX HD & NUT				
37			2	SB	7/8φ			0	2	HEX HD & NUT			M	
38		FW	1	WD			3/16	0	8					
39		FWS	1	WD			5/16	52	0					
40		FWL	1	WD			5/16	535	8					
41		FWS	1	WD			3/8	8	4					
42		FW	1	WD			1/2	2	4					
43		SDS	1	WD			7/16	4	6					
44		VGOS	1	WD			3/4	2	8					
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

INSTALLMENT - 8W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G8-7	GIRDER (44 1/2 x 60 x 135'-6)	

PAY ITEM - 504.711

GIRDER

MATERIAL A36 STEEL
RIVETS OR BOLTS 7/8φ A325
OPEN HOLES 15/16φ
A325 FIELD BOLTS 7/8φ
SHOP CONTACT SURFACES NO PAINT
MILLING - AS NOTED
WELDING - AS NOTED
PAINT ONE COAT AASHO-M72 TYPE II RED LEAD (U.N.)

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y
BY Anne Sal Novitzky
OCT 3 1969

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
CONTR Nº 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

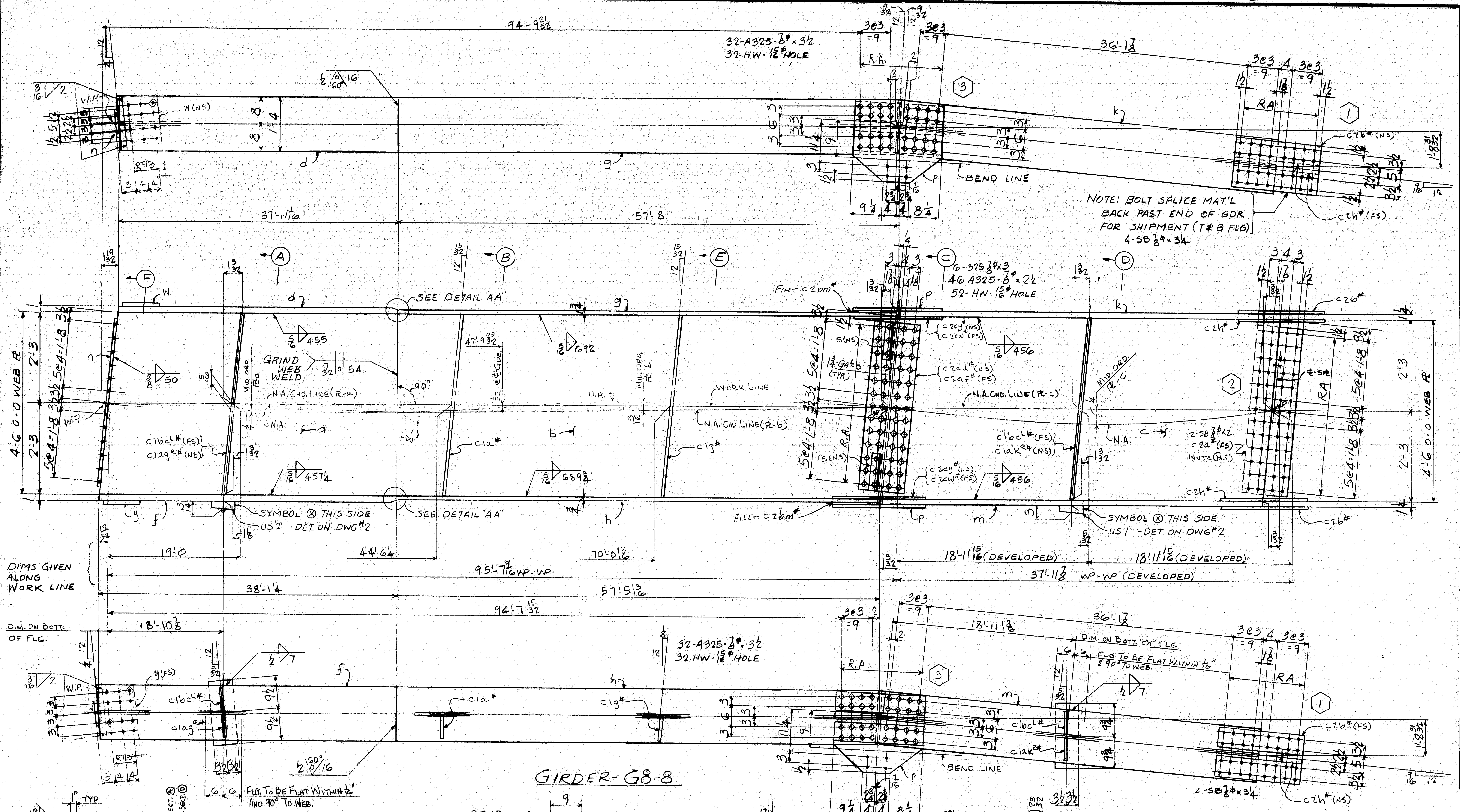
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RD DATE 8-6-69 IN CHARGE B.K. BERTOLET
CHECKED BY FRG DATE 8-20-69 SHOP NO. 2
CONTRACT CJ 6249-020 DRAWING NO. 163

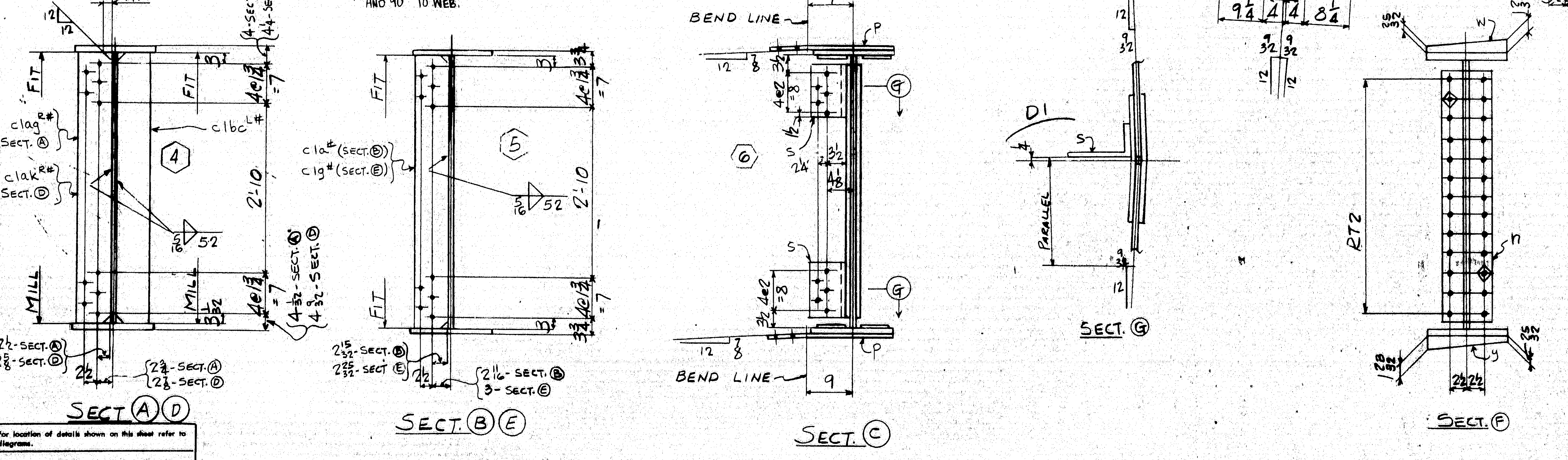
For location of details shown on this sheet refer to diagrams.
E9

3

10 BKK/672

SEP 26 1969





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

E9

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.

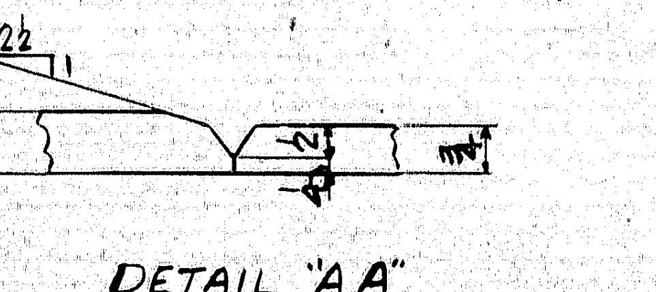
ALL OPEN HOLES - RP 3

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.

HOLES MARKED RT TO BE SUB-PUNCHED ¼" AND REAMED OR DRILLED FROM THE SOLID TO A METAL TEMPLET



DETAIL "AA"

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Archil Novitzky OCT 3 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.	ITEM PAGE	ITEM LINE
1		1	-	GIRDER		G8-8							
2	a	1	PL	54		½	38	1¼	56×½	38	11½	17	17
3	b	1	PL	54		7/16	57	7⅞	56½×7/16	58	5½	18	17
4	c	1	PL	54		½	38	1 3/16	56×½	38	11½	17	17
5	d	1	PLW	16		1	37	11¼		38	6½	20	17
6	f	1	PLW	16		1	38	1 7/16		38	6½	20	17
7	g	1	PW	16		¾	57	8 1/16		58	2¼	22	17
8	h	1	PW	16		¾	57	5⅜		58	2¼	22	17
9	k	1	PW	16		1¼	37	11 3/16		38	6½	21	18
10	m	1	PLW	16		1¼	37	11 3/16		38	6½	21	18
11	n	1	PL	8		½	4	2				J	
12	p	2	PL	23¾		½	2	1½	BENT CF 25½×½	22	4	24	45
13	s	2	L	7	3¼	½	0	11	CF 7×4×½ (BENT)	40	0	36	39
14	w	1	PL	12	(1 23/32×25/32)		1	4½	C.F. CROPS			J	
15	y	1	PL	12	(1 23/32×25/32)		1	4½	C.F. CROPS			J	
16	c 1bc^L#	2	BR	7½		¾	4	6 1/32	MIE FIE	18	4	24	49
17	c 1ag^R#	1	BR	7½		¾	4	6 1/32	MIE FIE	18	4	24	49
18	c 1ak^R#	1	BR	7½		¾	4	6 1/32	MIE FIE	18	4	24	49
19	c 1a#	1	BR	7		½	4	6	F2E	18	4	24	51
20	c 1g#	1	BR	7		½	4	6	F2E	18	4	24	51
21	c 2a#	1	PW	13		⅜	4	2		21	1	24	48
22	c 2b#	2	PW	15		½	2	1		21	3	24	47
23	c 2h#	4	BR	6½		½	2	1		19	0	24	50
24	c 2cw#	2	BR	6½		½	2	1½		19	0	24	50
25	c 2cy#	2	BR	6½		½	2	1½		19	0	24	50
26	c 2ad#	1	PLW	13		⅜	4	2	BENT	21	1	24	48
27	c 2af#	1	PLW	13		⅜	4	2	BENT	21	1	24	48
28	c 2bm#	2	PL	16		½	1	0⅞		20	2	24	46
29													
30	US2	1	UPPER	SHOE					(DET. ON DWG #2)				
31	US7	1	UPPER	SHOE					(DET. ON DWG #2)				
32		6	325	⅞ϕ			0	3					
33		46	325	⅞ϕ			0	2½					
34		64	325	⅞ϕ			0	3½				M	
35		116	HW	1¾	15/16	3/16							
36		8	SB	⅞ϕ			0	3¼	HEX HD & NUT				
37		2	SB	⅞ϕ			0	2	HEX HD & NUT			M	
38	FW	1	WD			3/16	0	8					
39	FWS	1	WD			5/16	52	0					
40	FWL	1	WD			5/16	534	4					
41	FWS	1	WD			⅜	8	4					
42	FW	1	WD			½	2	4					
43	SDS	1	WD			7/16	4	6					
44	V60S	1	WD			¾	2	8					
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													

INSTALLMENT - 8E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G8-8	GIRDER (44½×60×135'-0)	

PAY ITEM - 504.711

GIRDER

MATERIAL A36 STEEL
RIVETS OR BOLTS ⅞ϕ A325
OPEN HOLES 15/16ϕ
A325 FIELD BOLTS ⅞ϕ
SHOP CONTACT SURFACES NO PAINT
MILLING - AS NOTED
WELDING - AS NOTED
PAINT ONE COAT AASHO-M72 TYPE II RED LEAD (U.N.)

NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1	1/20	RD

REVISION

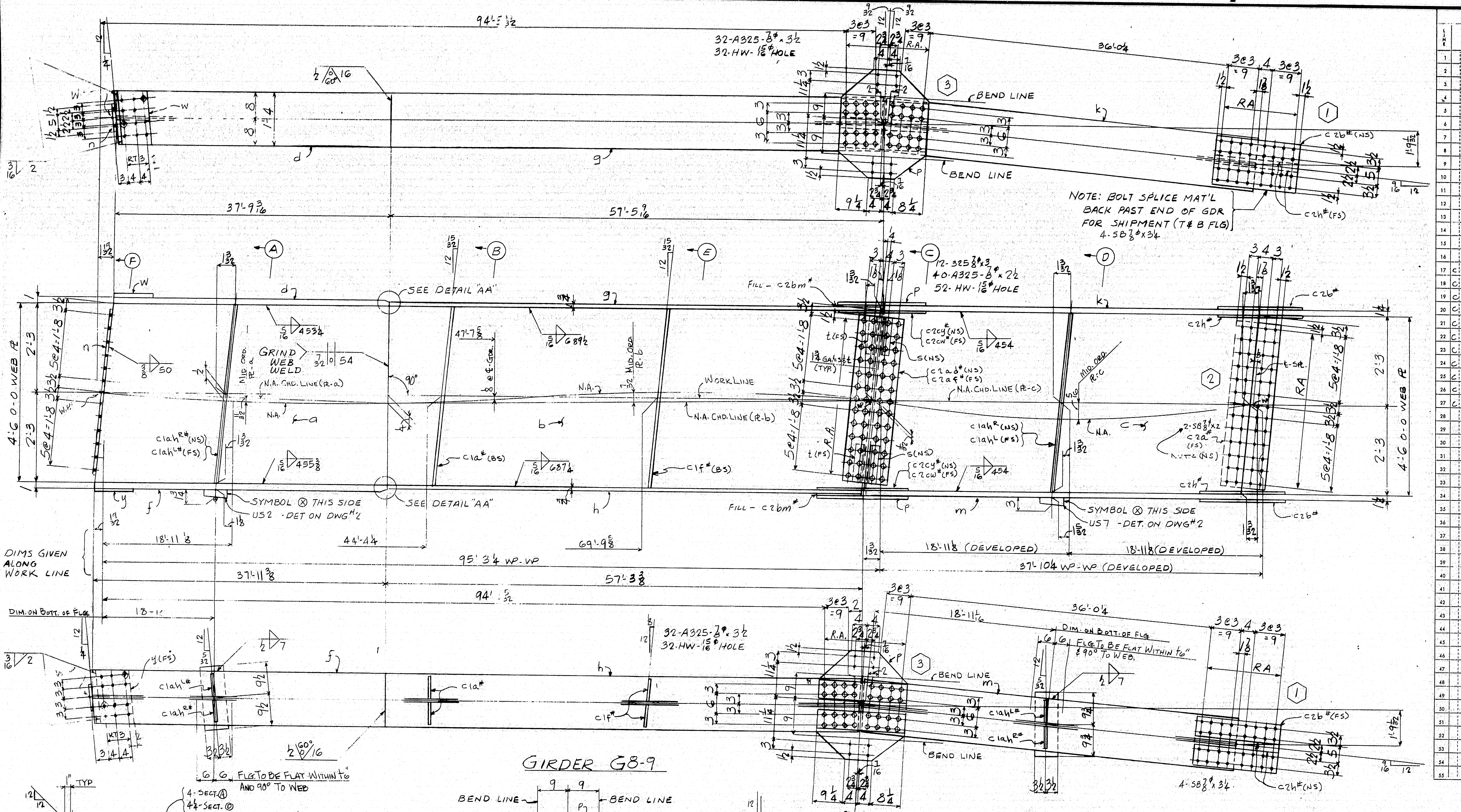
SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

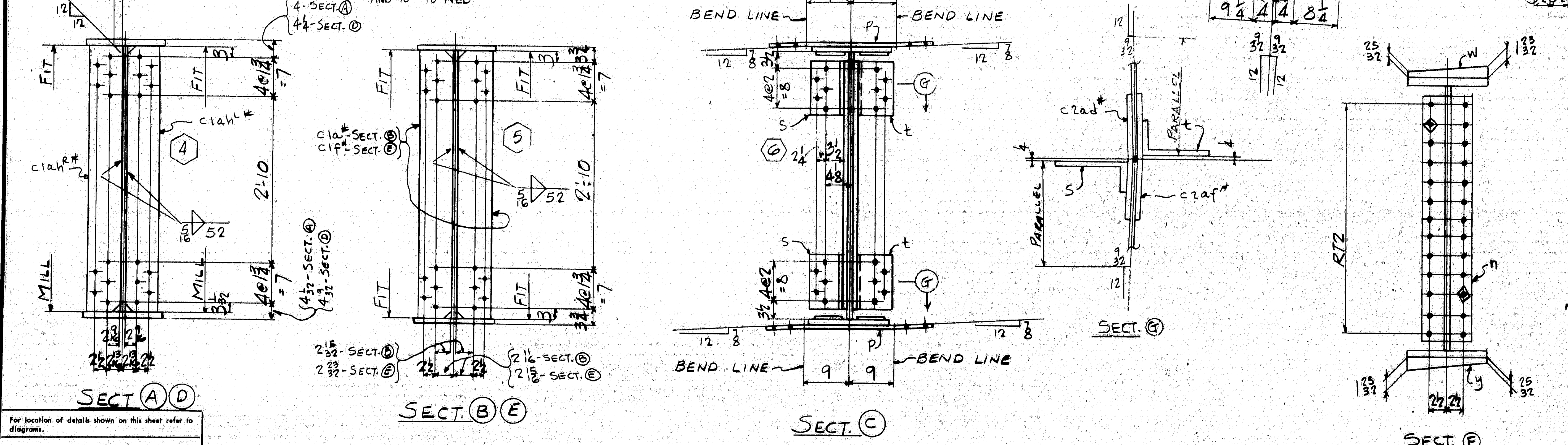
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT Nº I-95-1(22)16
CONTR Nº 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RD DATE 8-6-69 IN CHARGE B.K. BERTOLET
CHECKED BY FRS DATE 8-20-69 SHOP NO. 2
CONTRACT CJ 6249-020 DRAWING NO. 164

33453 (Rev. C 4-65)

106-163 1 GDR #7

SEP 26





DOWELS IN R-US2 TO BE PROTECTED DURING SHIPMENT.

RA - HOLES MARKED RA [illegible] SUBDRILLED 1/4" AND [illegible] TO [illegible] OR DRILLED FULL SIZE [illegible] WITH [illegible]TING PARTS ASSEMBLED.

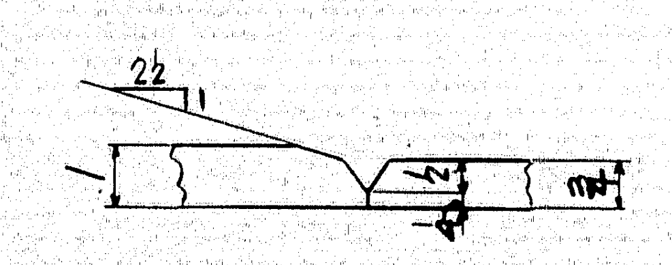
ALL OPEN HOLES - [illegible]

NO TACK WELDING [illegible] UNLESS [illegible] 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.

HOLES MARKED RT TO BE SUB-PUNCHED 1/4" AND REAMED OR DRILLED FROM THE SOLID TO A METAL TEMPLET



DETAIL "AA"

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
Arnold Noonan OCT 3 1969

MATERIAL A36 STEEL
RIVETS OR BOLTS 7/8 φ A325
OPEN HOLES 15/16 φ
A325 FIELD BOLTS 7/8 φ
SHOP CONTACT SURFACES NO PAINT
MILLING - AS NOTED
WELDING - AS NOTED
PAINT ONE COAT AASHO-M72 TYPE II RED LEAD (U.N.)

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

SHOP BILL

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	LENGTH FT.	LENGTH IN.	[illegible]	[illegible]
1			1	- GIRDER			G8-9							
2		a	1	PL	54		1/2	37	11 3/8	56×1/2	38	11 1/2	17	17
3		b	1	PL	54		7/16	57	5 7/16	56 1/2×7/16	58	5 1/2	18	17
4		c	1	PL	54		1/2	38	0 5/16	56×1/2	38	11 1/2	17	17
5		d	1	PL	16		1	37	9 3/8		38	6 1/2	20	17
6		f	1	PL	16		1	37	11 9/16		38	6 1/2	20	17
7		g	1	PL	16		3/4	57	5 5/8		58	2 1/4	22	17
8		h	1	PL	16		3/4	57	3 7/16		58	2 1/4	22	17
9		k	1	PL	16		1 1/4	37	10 3/16		38	6 1/2	21	18
10		m	1	PL	16		1 1/4	37	10 3/16		38	6 1/2	21	18
11		n	1	PL	8		1/2	4	2				J	
12		p	2	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
13		s	2	L	7	3 1/4	1/2	0	11	BENT	40	0	36	39
14		t	2	L	7	3 1/4	1/2	0	11	BENT	40	0	36	39
15		w	1	PL	12	(1 23/32×25/32)	1	4 1/2		C.F. CROPS			J	
16		y	1	PL	12	(1 23/32×25/32)	1	4 1/2		C.F. CROPS			J	
17	c	1ah R/L #	2/2	BR	7 1/2		3/4	4	6 1/32	F1E M1E	18	4	24	49
18	c	1a #	2	BR	7		1/2	4	6	F2E	18	4	24	51
19	c	1f #	2	BR	7		1/2	4	6	F2E	18	4	24	51
20	c	2a #	1	PLU	13		3/8	4	2		21	1	24	48
21	c	2b #	2	PLU	15		1/2	2	1		21	3	24	47
22	c	2h #	4	BR	6 1/2		1/2	2	1		19	0	24	50
23	c	2bm #	2	PL	16		1/2	1	0 3/8		20	2	24	46
24	c	2cy #	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
25	c	2cw #	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
26	c	2ad #	1	PLU	13		3/8	4	2	BENT	21	1	24	48
27	c	2af #	1	PLU	13		3/8	4	2	BENT	21	1	24	48
28														
29														
30		US2	1	UPPER	SHOE					(DET. ON DWG #2)				
31		US7	1	UPPER	SHOE					(DET. ON DWG #2)				
32			12	325	7/8 φ			0	3					
33			40	325	7/8 φ			0	2 1/2					
34			64	325	7/8 φ			0	3 1/2				M	
35			116	HW	1 3/4	15/16	3/16							
36			8	SB	7/8 φ			0	3 1/4	HEX HD & NUT				
37			2	SB	7/8 φ			0	2	HEX HD & NUT			M	
38		FW	1	WD			3/16	0	8					
39		FWS	1	WD			5/16	69	4					
40		FWL	1	WD			5/16	532	1 3/4					
41		FWS	1	WD			3/8	8	4					
42		FW	1	WD			1/2	2	4					
43		SDS	1	WD			7/16	4	6					
44		V60S	1	WD			3/4	2	8					
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

INSTALLMENT - 8E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G8-9	GIRDER (4'4 1/2 × 60 × 134'-3)	

PAY ITEM - 504.711

GIRDER

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

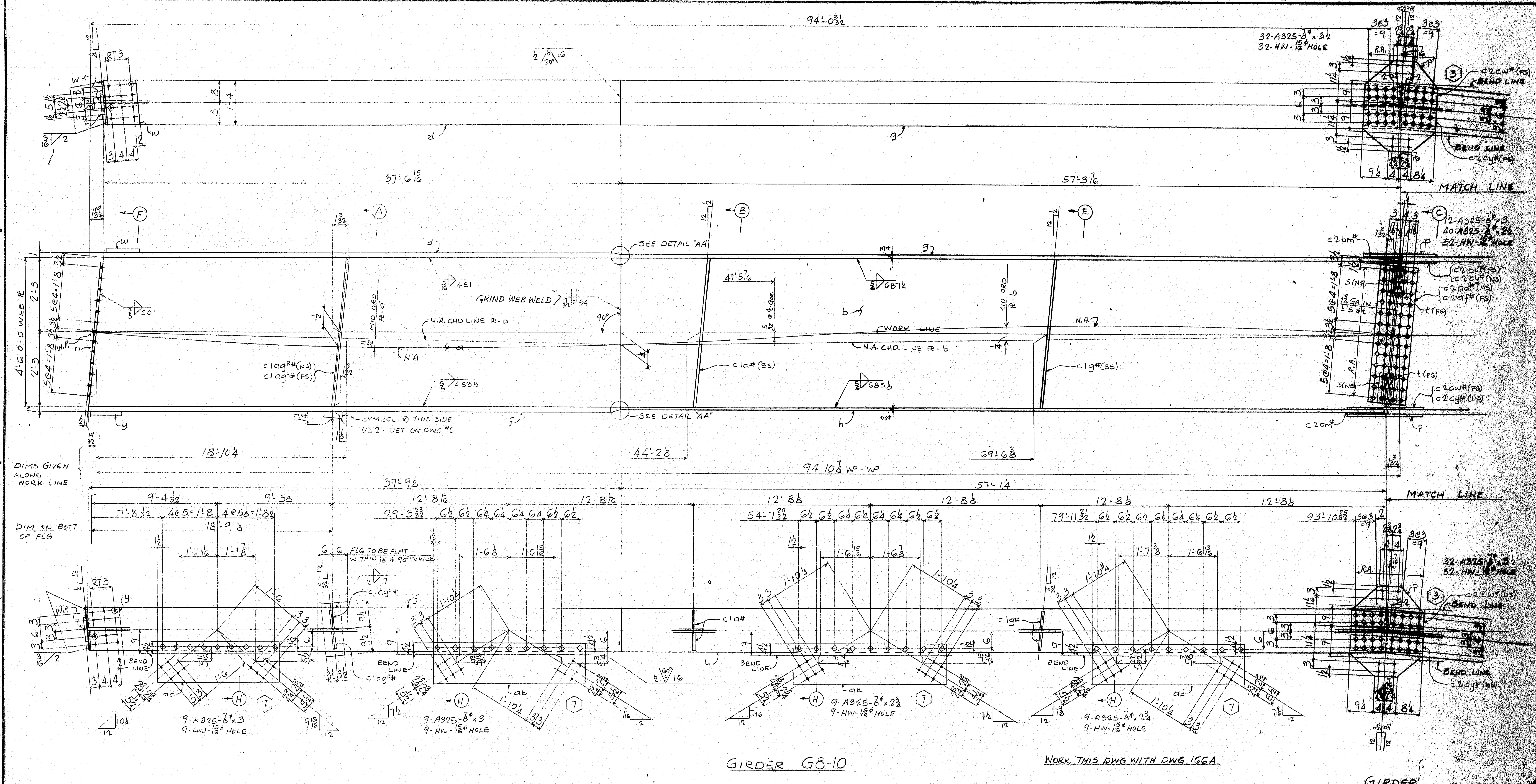
REVISION

CUSTOMER
MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT Nº I-95-1(22)16
CONTR Nº 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RD DATE 8-8-69 IN CHARGE B.K. BERTOLET
CHECKED BY FRG DATE 8-20-69 SHOP NO. 2
CONTRACT CJ 6249-020 DRAWING NO. 165

3 / 106-164 GDR # 9

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

E9



WORK THIS DWG WITH DWG 166A

FOR GEN. NOTES SEE DWG 166A

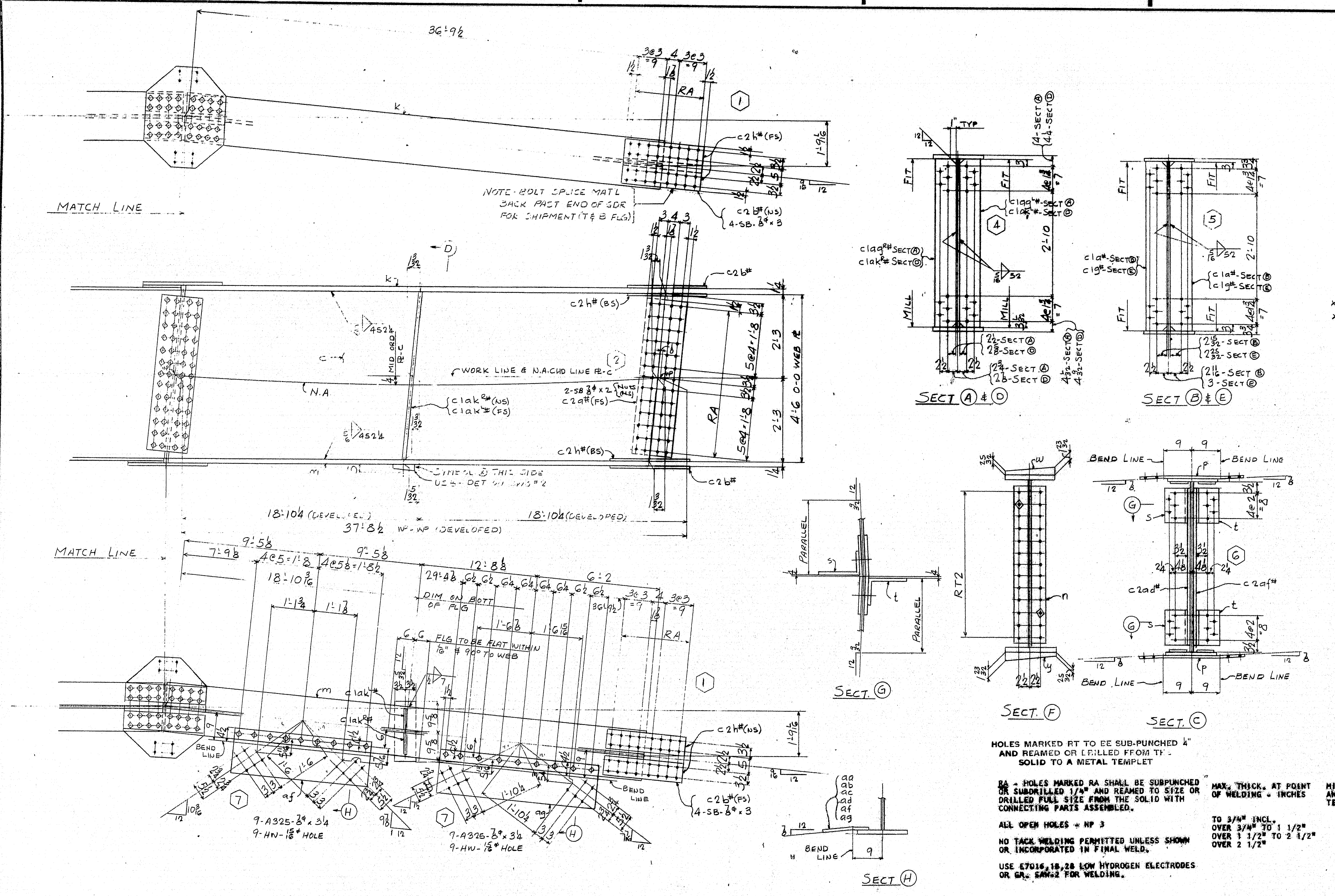
APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Arnold Noority OCT 3

MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SHOP CONTACT SURFACES
PAINT

GIRDER
CUSTOMER MAINE STATE HIGHWAY COMMI
PISCATAQUA RIVER BRIDGE
STRUCTURE PROJECT Nº I-95-1(22)16
CONTR Nº 5-NEW HAMPSHIRE AP
STRUCTURAL STEEL
BETHLEHEM STEEL CO
POTTSTOWN DRAFTING ROOM
MADE BY CWG DATE 8-14-69
CHECKED BY RG DATE 8-20-69
CONTRACT CJ6249-090
3 / 106-

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

For location of details shown on this sheet refer to diagrams.
E9



HOLES MARKED RT TO BE SUB-PUNCHED ¼" AND REAMED OR DRILLED FROM THE SOLID TO A METAL TEMPLET

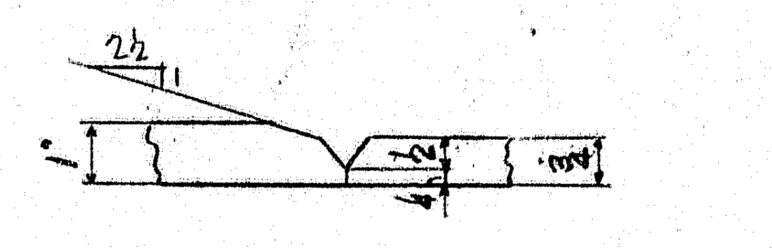
RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

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.



DETAIL "AA"

WORK THIS DWG WITH DWG 166

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Arnold Novitzky
OCT 3 1969

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

E9

SHOP BILL

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		1 -	GIRDER			G8-10							
2	a	1	PL	54		½	37	9⅛	56×½	38	1¾	17	18
3	b	1	PL	54		7/16	57	3 5/16	NOTE: REC'D FROM MILL 57'-9 56½×7/16	58	5½	18	17A
4	c	1	PL	54		½	37	10 7/16	56×½	38	1¾	17	18
5	d	1	PLU	16		1	37	7⅛		37	10½	20	18
6	f	1	PLU	16		1	37	9 5/16		37	10½	20	18
7	g	1	PLU	16		¾	57	3½		58	2¼	22	17
8	h	1	PLU	16		¾	57	1 5/16		58	2¼	22	17
9	k	1	PLU	16		1¼	37	8 7/16		38	6½	21	18
10	m	1	PLU	16		1¼	37	8 7/16		38	6½	21	18
11	n	1	PL	8		½	4	2				J	
12	p	2	PL	25½		½	2	7½	(BENT)	22	4	24	45
13	s	2	L	7	3¼	½	0	11	(BENT) C.F. 7×4×½	40	0	36	39
14	t	2	L	7	3¼	½	0	11	(BENT) C.F. 7×4×½	40	0	36	39
15	w	1	PL	12		25/32×23/32	1	4½	C.F. CROPS			J	
16	y	1	PL	12		25/32×23/32	1	4½	C.F. CROPS			J	
17	aa	1	PL	14½		⅝	3	7½	(BENT)	26	0	28	19
18	ab	1	PL	14½		⅝	4	6	(BENT)	26	0	28	19
19	ac	1	PL	14½		⅝	4	6	(BENT)	26	0	28	19
20	ad	1	PL	14½		⅝	4	6½	(BENT)	26	0	28	19
x 21	af	1	PL	14½		⅝	3	7½	(BENT)	26	0	28	19
x 22	ag	1	PL	14½		⅝	4	6	(BENT)	26	0	28	19
23	C 1a#	2	BR	7		½	4	6	(F2E)	18	4	24	51
24	C 1g#	2	BR	7		½	4	6	(F2E)	18	4	24	51
25	C 1ag^R_L#	1/1	BR	7½		¾	4	6 1/32	(MIE)(FIE)	18	4	24	49
26	C 1ak^R_L#	1/1	BR	7½		¾	4	6 1/32	(MIE)(FIE)	18	4	24	49
27	C 2bm#	2	PL	16		½	1	0⅞		20	2	24	46
28	C 2cw#	2	BR	6½		½	2	1½		19	0	24	50
29	C 2cy#	2	BR	6½		½	2	1½		19	0	24	50
30	US2	1	UPPER	SHOE					(DET ON DWG #2)				
31	US8	1	UPPER	SHOE					(DET ON DWG #2)				
32		30	325	⅞φ			0	3					
33		40	325	⅞φ			0	2½					
34		64	325	⅞φ			0	3½					
35		18	325	⅞φ			0	3¼				M	
36		170	HW	1¾φ	15/16φ	3/16							
37		8	SB	⅞φ			0	3½	HEX HD & NUT				
38		18	325	⅞φ			0	2¾					
39	FW	1	WD			3/16	0	8					
40	FWS	1	WD			5/16	69	4					
41	FWL	1	WD			5/16	531	10					
42	FWS	1	WD			⅜	8	4					
43	FW	1	WD			½	2	4					
44	SDS	1	WD			7/16	4	6					
45	V60S	1	WD			¾	2	8					
46													
47	C 2ad#	1	PLU	13		⅜	4	2	(BENT)	21	1	24	48
48	C 2af#	1	PLU	13		⅜	4	2	(BENT)	21	1	24	48
49	C 2a#	1	PLU	13		⅜	4	2		21	1	24	48
50	C 2b#	2	PLU	15		½	2	1		21	3	24	47
51	C 2h#	4	BR	6½		½	2	1		19	0	24	50
52		2	SB	⅞φ			0	2	HEX HD & NUT			M	
53													
54													
55													

INSTALLMENT - 8E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G8-10	GIRDER (44½×60¾×133'-10)	

PAY ITEM - 504.711

GIRDER

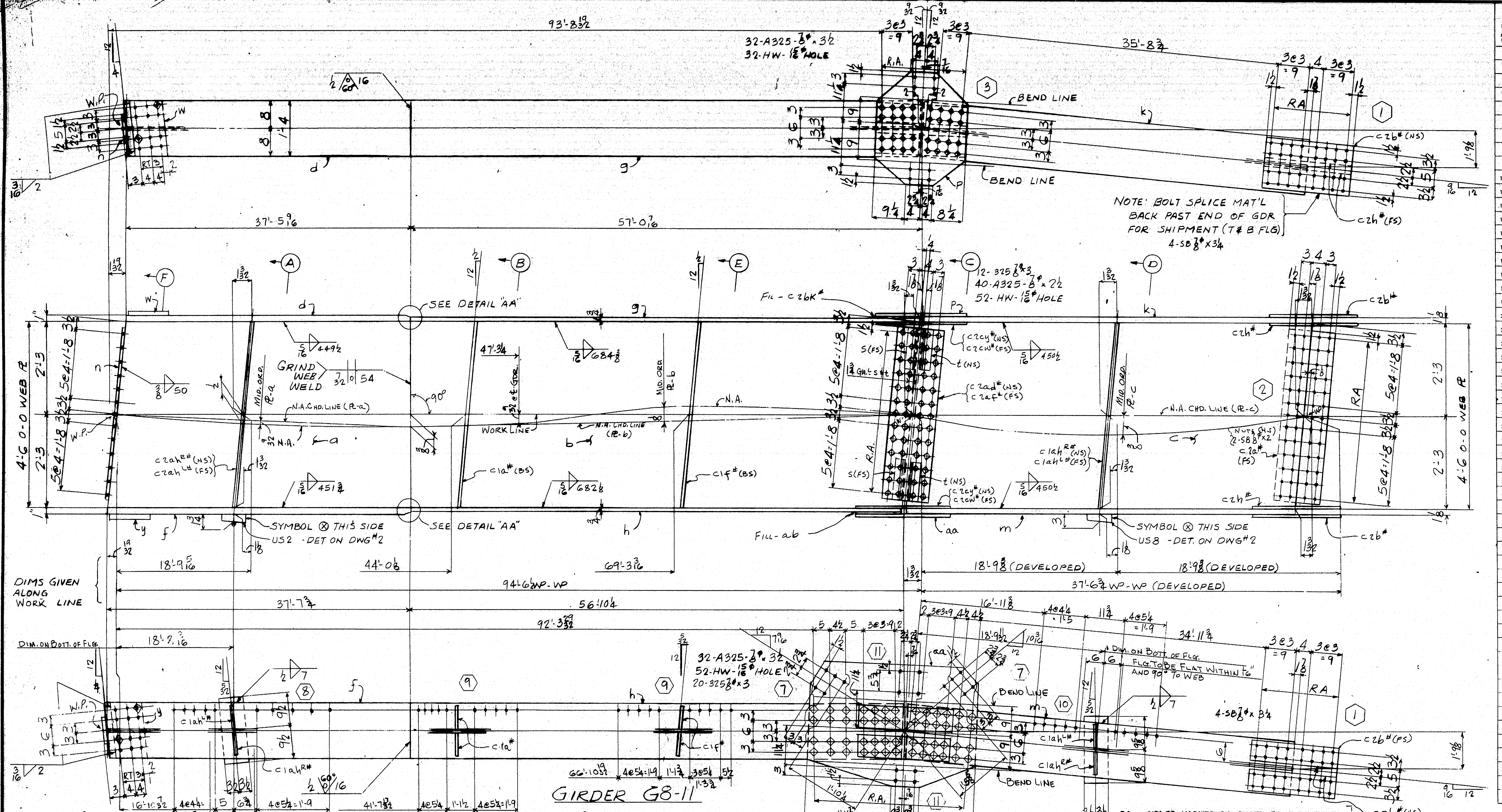
MATERIAL A36 STEEL
RIVETS OR BOLTS ⅞φ A325
OPEN HOLES 15/16φ
A325-FIELD BOLTS ⅞φ
SHOP CONTACT SURFACES NO PAINT
MILLING - AS NOTED
WELDING - AS NOTED
PAINT ONE COAT AASHO-M72 TYPE II RED LEAD (U.N.)

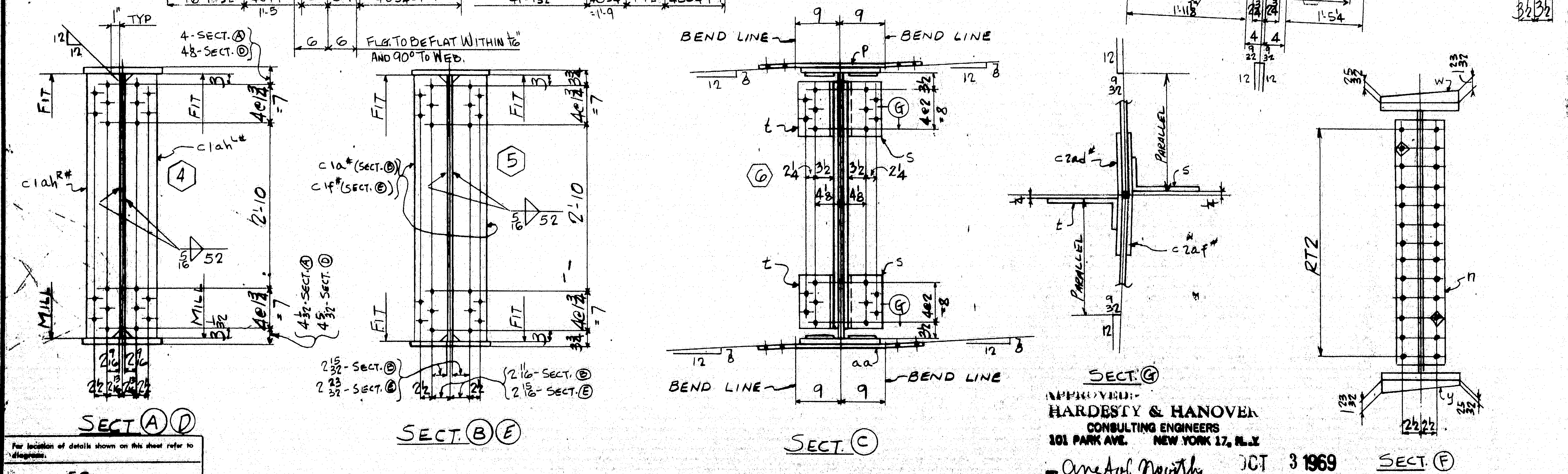
REVISION NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

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
CONTR Nº 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY CWG DATE 8-15-69 IN CHARGE B.K. [illegible]
CHECKED BY FRG DATE 8-20-69 SHOP NO. 2
CONTRACT CJ6249-020 DRAWING NO. 166A

3 106-V66'





APPROVED:
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
OCT 3 1969

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

E9

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SIZE OR POUNDS	THICK	LENGTH FT.	LENGTH IN.	REMARKS	LENGTH FT.	LENGTH IN.	PAGE	
1			1	- GIRDER			G8-11							
2		a	1	PL	54		1/2	37	7 3/4	56×1/2	38	1 3/4	17	18
3		b	1	PL	54		7/16	57	0 5/16	56 1/2×7/16	57	5 1/2	18	18
4		c	1	PL	54		1/2	37	8 11/16	56×1/2	38	1 3/4	17	18
5		d	1	PLU	16		1	37	5 3/4		37	10 1/2	20	18
6		f	1	PLU	16		1	37	7 15/16		37	10 1/2	20	18
7		g	1	PLU	16		3/4	57	0 1/2		57	1 3/4	22	18
8		h	1	PLU	16		3/4	56	10 5/16		57	1 3/4	22	18
9		k	1	PLU	16		1 1/8	37	6 1/16		37	8 3/4	21	16
10		m	1	PLU	16		1 1/8	37	6 1/16		37	8 3/4	21	16
11		n	1	PL	8		1/2	4	2				J	
12		p	1	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
13		s	2	L	7	3 1/4	1/2	0	11	BENT CF 7×4×1/2	40	0	36	39
14		t	2	L	7	3 1/4	1/2	0	11	BENT CF 7×4×1/2	40	0	36	39
15		w	1	PL	12	(1 23/32×25/32)	1		4 1/2	C.F. CROPS			J	
16		y	1	PL	12	(1 23/32×25/32)	1		4 1/2	C.F. CROPS			J	
17		aa	1	PL	34		5/8	4	1/8	BENT MULTS CF 36×5/8	4	1 1/4	28	15
18		ab	1	PL	16		3/8	2	3 3/8				J	
19	c	1ah R# L#	2/2	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
20	c	1a#	2	BR	7		1/2	4	6	F2E	18	4	24	51
21	c	1f#	2	BR	7		1/2	4	6	F2E	18	4	24	51
22	c	2bK#	1	PL	16		3/8	1	0 7/8				J	
23	c	2cw#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
24	c	2cy#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
25	c	2ad#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
26	c	2af#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
27	c	2a#	1	PLU	13		3/8	4	2		21	1	24	48
28	c	2b#	2	PLU	15		1/2	2	1		21	3	24	47
29	c	2h#	4	BR	6 1/2		1/2	2	1		19	0	24	50
30		US2	1	UPPER	SHOE					(DET. ON DWG #2)				
31		US8	1	UPPER	SHOE					(DET. ON DWG #2)				
32			32	325	7/8ϕ			0	3					
33			40	325	7/8ϕ			0	2 1/2					
34			64	325	7/8ϕ			0	3 1/2				M	
35			136	HW	1 3/4ϕ	15/16ϕ	3/16							
36			8	SB	7/8ϕ			0	3 1/4	HEX HD & NUT				
37			2	SB	7/8ϕ			0	2	HEX HD & NUT			M	
38		FW	1	WD			3/16	0	8					
39		FWS	1	WD			5/16	69	4					
40		FWL	1	WD			5/16	528	11 1/2					
41		FWS	1	WD			3/8	8	4					
42		FW	1	WD			1/2	2	4					
43		SDS	1	WD			7/16	4	6					
44		VGOS	1	WD			3/4	2	8					
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.

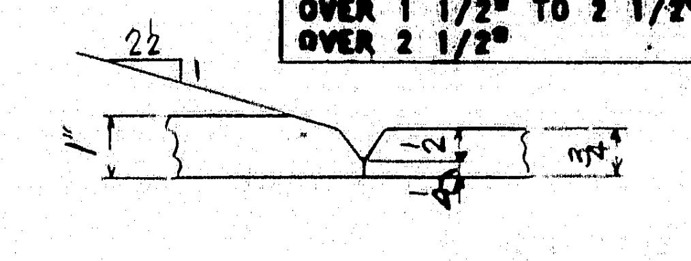
ALL OPEN HOLES - NP 3

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

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

HOLES MARKED RT TO BE SUB-PUNCHED 1/4" AND REAMED OR DRILLED FROM THE SOLID TO A METAL TEMPLET

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.



DETAIL "AA"

DOWELS IN PL-US2 TO BE PROTECTED DURING SHIPMENT.

MATERIAL A36 STEEL
RIVETS OR BOLTS 7/8ϕ A325
OPEN HOLES 15/16ϕ
A325 FIELD BOLTS 7/8ϕ
SHOP CONTACT SURFACES NO PAINT
MILLING - AS NOTED
WELDING - AS NOTED
PAINT ONE COAT AASHO-M72 TYPE II RED LEAD (U.N.)

INSTALLMENT - 8E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G8-11	GIRDER (44 1/2×60×133'-0)	

PAY ITEM - 504.711

GIRDER

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
CONTR Nº 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL

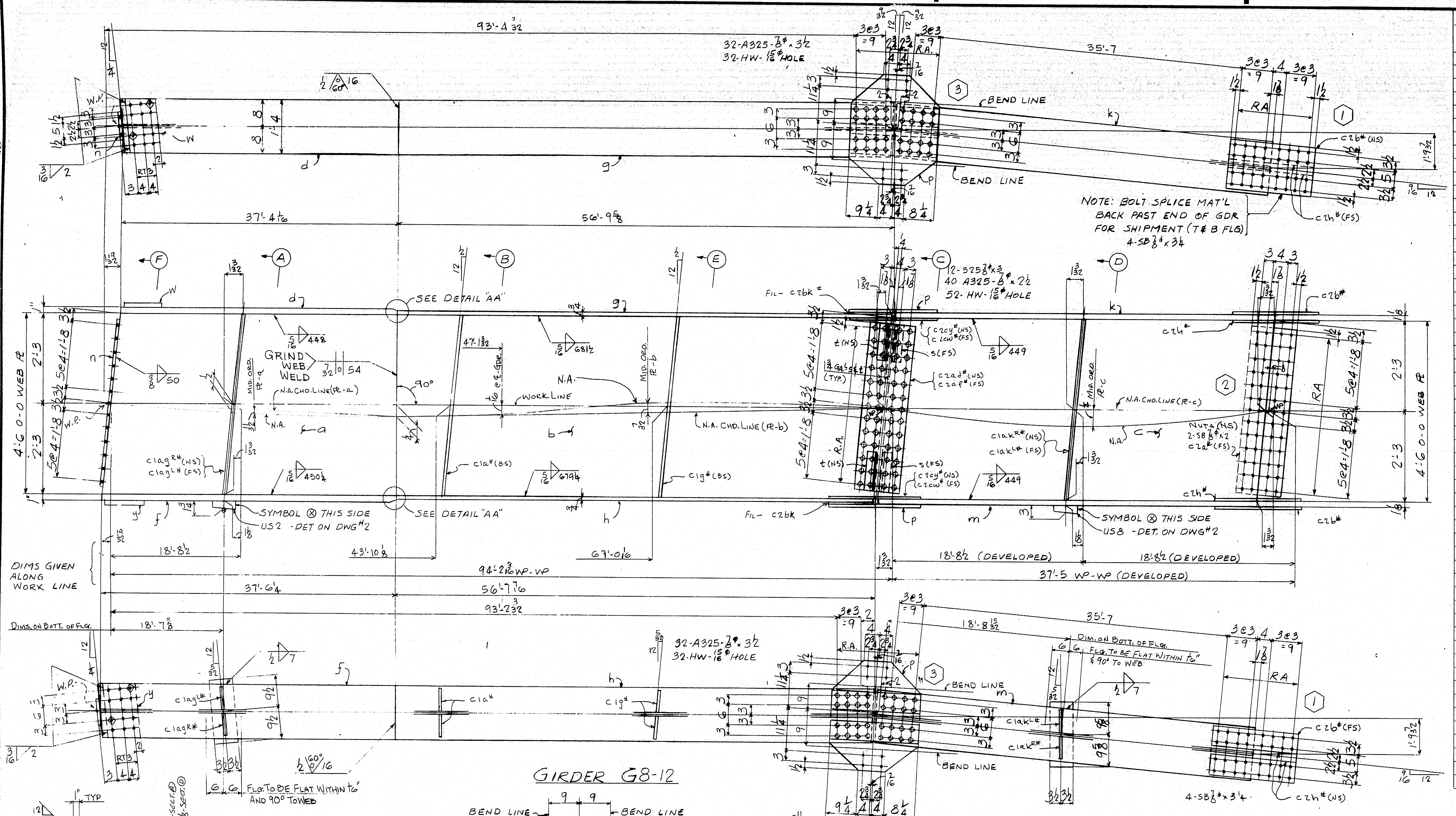
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RD DATE 8-13-69 IN CHARGE B. K. BERTOLET
CHECKED BY FRG DATE 8-22-69 SHOP NO. 2
CONTRACT CJ 6249-020 DRAWING NO. 167

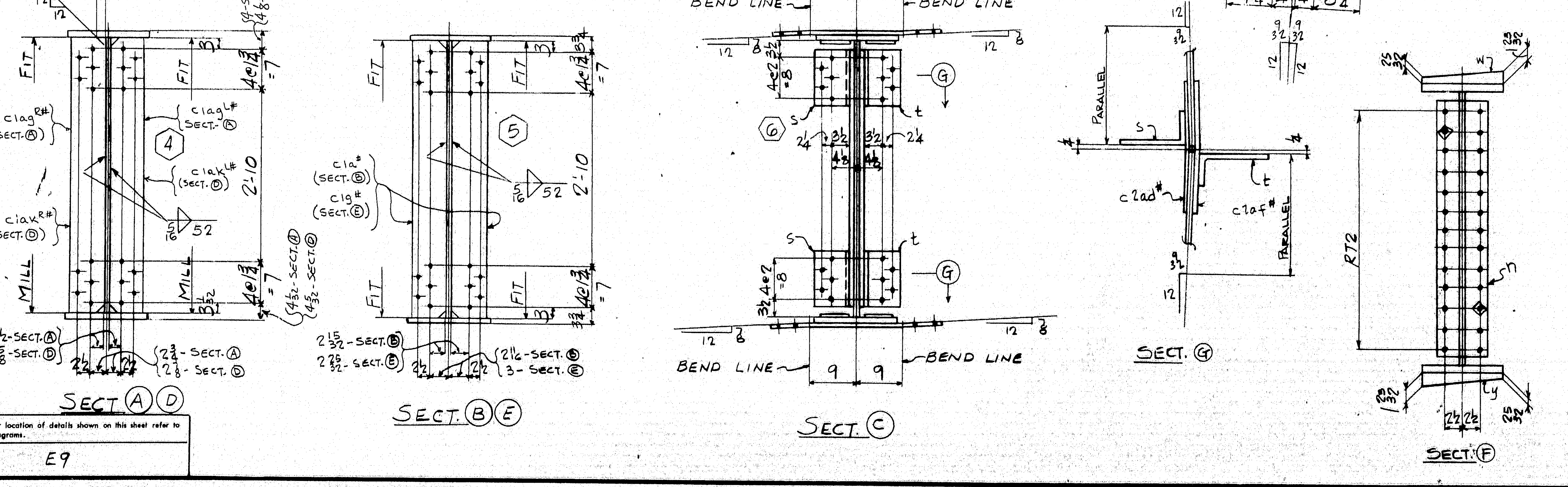
35453 (Rev. C 4-65)

3 106-167 GDR #11

SEP 26



GIRDER G8-12



SECT. A D

SECT. B E

SECT. C

SECT. G

SECT. F

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

E9

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.

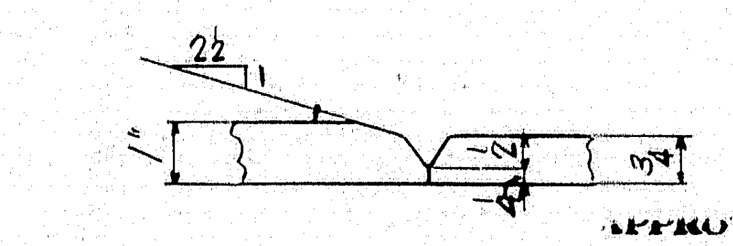
ALL OPEN HOLES - NP 3

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

USE E7016, 18, 28 LOW HYDROGEN ELECTRODES OR 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.

HOLES MARKED RT TO BE SUB-PUNCHED 1/4" AND REAMED OR DRILLED FROM THE SOLID TO A METAL TEMPLET



DETAIL "AA"

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Anatol Novitsky
OCT 3 1969

MATERIAL A36 STEEL
RIVETS OR BOLTS 7/8ϕ A325
OPEN HOLES 15/16ϕ
A325 FIELD BOLTS 7/8ϕ
SHOP CONTACT SURFACES NO PAINT
MILLING - AS NOTED
WELDING - AS NOTED
PAINT ONE COAT AASHO-M72 TYPE II RED LEAD (U.N.)

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

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		1	GIRDER			G8-12							
2	a	1	PL	54		1/2	37	6 1/4	56x1/2	38	1 3/4	17	18
3	b	1	PL	54		7/16	56	9 1/2	56 1/2x7/16	57	5 1/2	18	18
4	c	1	PL	54		1/2	37	6 15/16	56x1/2	38	1 3/4	17	18
5	d	1	PLU	16		1	37	4 1/4		37	10 1/2	20	18
6	f	1	PLU	16		1	37	6 1/16		37	10 1/2	20	18
7	g	1	PLU	16		3/4	56	9 1/16		57	1 3/4	22	18
8	h	1	PLU	16		3/4	56	7 1/2		57	1 3/4	22	18
9	k	1	PLU	16		1 1/8	37	4 15/16		37	8 3/4	21	16
10	m	1	PLU	16		1 1/8	37	4 15/16		37	8 3/4	21	16
11	n	1	PL	8		1/2	4	2				J	
12	p	2	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
13	s	2	L	7	3 1/2	1/2	0	11	BENT CF 7x4x1/2	40	0	36	39
14	t	2	L	7	3 1/2	1/2	0	11	BENT CF 7x4x1/2	40	0	36	39
15	w	1	PL	12	(1 23/32 x 25/32)		1	4 1/2	C.F. CROPS			J	
16	y	1	PL	12	(1 23/32 x 25/32)		1	4 1/2	C.F. CROPS			J	
17	c 1ag R/L #	1/1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
18	c 1ak R/L #	1/1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
19	c 1a#	2	BR	7		1/2	4	6	F2E	18	4	24	51
20	c 1g#	2	BR	7		1/2	4	6	F2E	18	4	24	51
21	c 2bk#	2	PL	16		3/8	1	0 3/8				J	
22	c 2cw#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
23	c 2cy#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
24	c 2ad#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
25	c 2af#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
26	c 2a#	1	PLU	13		3/8	4	2		21	1	24	48
27	c 2b#	2	PLU	15		1/2	2	1		21	3	24	47
28	c 2h#	4	BR	6 1/2		1/2	2	1		19	0	24	50
29													
30	US2	1	UPPER	SHOE					(DET. ON DWG #2)				
31	US8	1	UPPER	SHOE					(DET. ON DWG #2)				
32		12	325	7/8ϕ			0	3					
33		40	325	7/8ϕ			0	2 1/2					
34		64	325	7/8ϕ			0	3 1/2				M	
35		116	HW	1 3/4ϕ	15/16ϕ	3/16							
36		8	SB	7/8ϕ			0	3 1/4	HEX HD & NUT				
37		2	SB	7/8ϕ			0	2	HEX HD & NUT			M	
38	FW	1	WD			3/16	0	8					
39	FWS	1	WD			5/16	69	4					
40	FWL	1	WD			5/16	533	8					
41	FWS	1	WD			3/8	8	4					
42	FW	1	WD			1/2	2	4					
43	SDS	1	WD			7/16	4	6					
44	V60S	1	WD			3/4	2	8					
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													

INSTALLMENT - 8E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G8-12	GIRDER (44 1/2 x 60 x 132'-10)	

PAY ITEM - 504.711

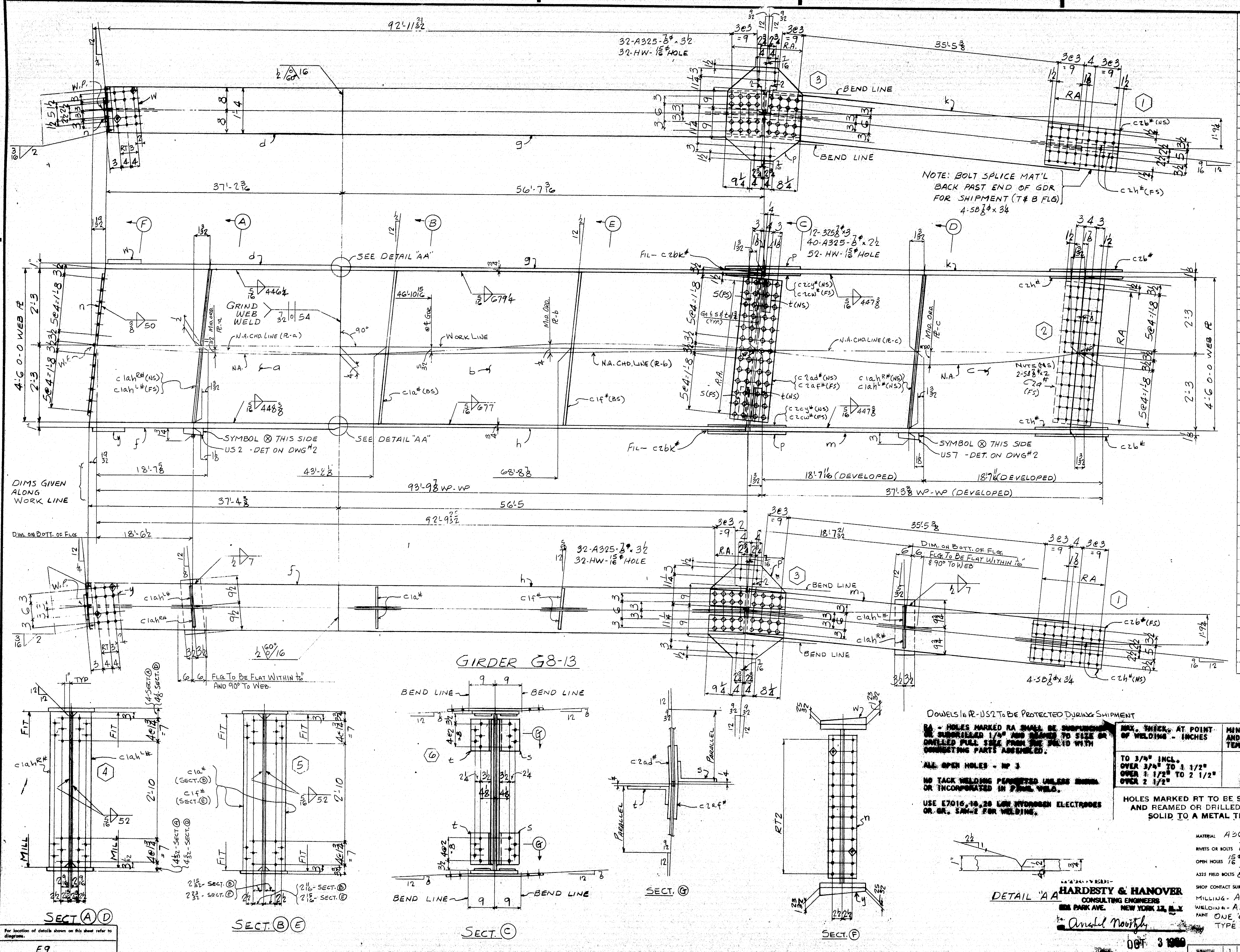
GIRDER

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

CUSTOMER
MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT Nº I-95-1(22)16
CONTR. Nº 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM: POTTSTOWN WORKS
MADE BY RO DATE 8-11-69 IN CHARGE B.K. BERTOLET
CHECKED BY FRG DATE 8-22-69 SHOP NO. 2
CONTRACT CJ6249-020 DRAWING NO. 168

106-168 3/7

GDR #2



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.

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.

HOLES MARKED RT TO BE SUB-PUNCHED ¼" AND REAMED OR DRILLED FROM THE SOLID TO A METAL TEMPLET

For location of details shown on this sheet refer to diagram.
E9

SHOP BILL

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			1	- GIRDER			G8-13							
2		a	1	PL	54		½	37	4⅜	56×½	38	1¾	17	18
3		b	1	PL	54		7/16	56	7 1/16	56½×7/16	57	5½	18	18
4		c	1	PL	54		½	37	5 5/16	56×½	38	1¾	17	18
5		d	1	PLU	16		1	37	2⅜		37	10½	20	18
6		f	1	PLU	16		1	37	4 9/16		37	10½	20	18
7		g	1	PLU	16		¾	56	7¼		57	1¾	22	18
8		h	1	PLU	16		¾	56	5 1/16		57	1¾	22	18
9		k	1	PLU	16		1⅛	37	3 5/16		37	8¾	21	16
10		m	1	PLU	16		1⅛	37	3 5/16		37	8¾	21	16
11		n	1	PL	8		½	4	2				J	
12		p	2	PL	25½		½	2	7½	BENT	22	4	24	45
13		s	2	L	7	3½	½	0	11	BENT CF 7×4×½	40	0	36	39
14		t	2	L	7	3½	½	0	11	BENT CF 7×4×½	40	0	36	39
15		w	1	PL	12	(1 23/32×25/32)	1		4½	C.F. CROPS			J	
16		y	1	PL	12	(1 23/32×25/32)	1		4½	C.F. CROPS			J	
17	c	1ah R/L #	2/2	BR	7½		¾	4	6 1/32	MIE FIE	18	4	24	49
18	c	1a#	2	BR	7		½	4	6	F2E	18	4	24	51
19	c	1f#	2	BR	7		½	4	6	F2E	18	4	24	51
20	c	2bk#	2	PL	16		⅜	1	0⅞				J	
21	c	2cw#	2	BR	6½		½	2	1½		19	0	24	50
22	c	2cy#	2	BR	6½		½	2	1½		19	0	24	50
23	c	2ad#	1	PLU	13		⅜	4	2	BENT	21	1	24	48
24	c	2af#	1	PLU	13		⅜	4	2	BENT	21	1	24	48
25	c	2a#	1	PLU	13		⅜	4	2		21	1	24	48
26	c	2b#	2	PLU	15		½	2	1		21	3	24	47
27	c	2h#	4	BR	6½		½	2	1		19	0	24	50
28														
29														
30		US2	1	UPPER	SHOE					(DET. ON DWG #2)				
31		US7	1	UPPER	SHOE					(DET. ON DWG #2)				
32			12	325	⅞φ			0	3					
33			40	325	⅞φ			0	2½					
34			64	325	⅞φ			0	3½				M	
35			116	HW	1¾φ	15/16φ	3/16							
36			8	SB	⅞φ			0	3¼	HEX HD & NUT				
37			2	SB	⅞φ			0	2	HEX HD & NUT			M	
38		FW	1	WD			3/16	0	8					
39		FWS	1	WD			5/16	69	4					
40		FWL	1	WD			5/16	524	3¼					
41		FWS	1	WD			⅜	8	4					
42		FW	1	WD			½	2	4					
43		SDS	1	WD			7/16	4	6					
44		VGOS	1	WD			¾	2	8					
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

INSTALLMENT - 8E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G8-13	GIRDER (44½×60×132'-4)	

PAY ITEM - 504.711

GIRDER

MATERIAL A36 STEEL
RIVETS OR BOLTS ⅞φ A325
OPEN HOLES 15/16φ
A325 FIELD BOLTS ⅞φ
SHOP CONTACT SURFACES NO PAINT
MILLING - AS NOTED
WELDING - AS NOTED
PAINT ONE COAT AASHO-M72 TYPE II RED LEAD (U.N.)

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
by Arnold Novitzky
OCT 3 1969

NO.	DATE	INIT.
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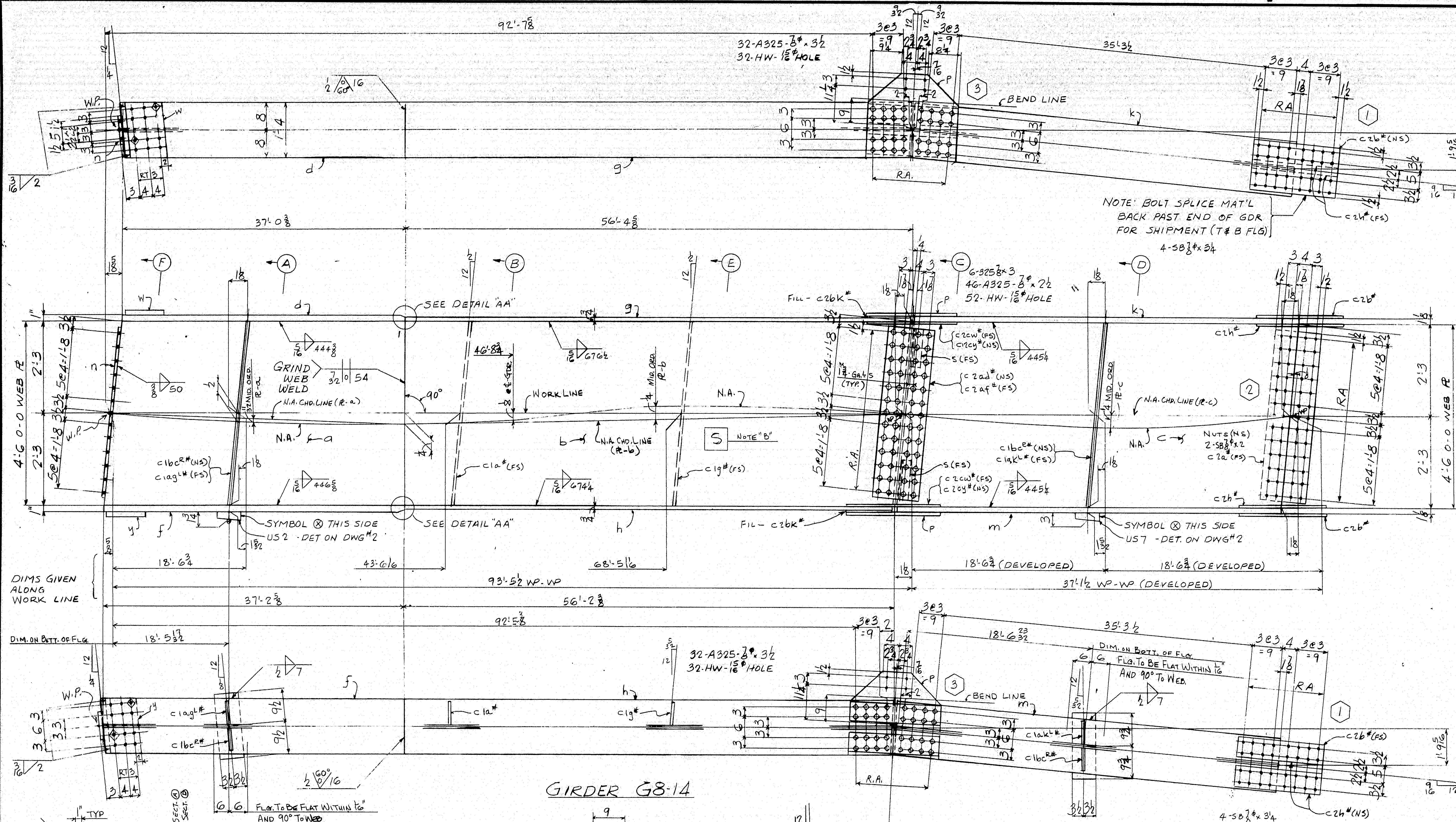
REVISION

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

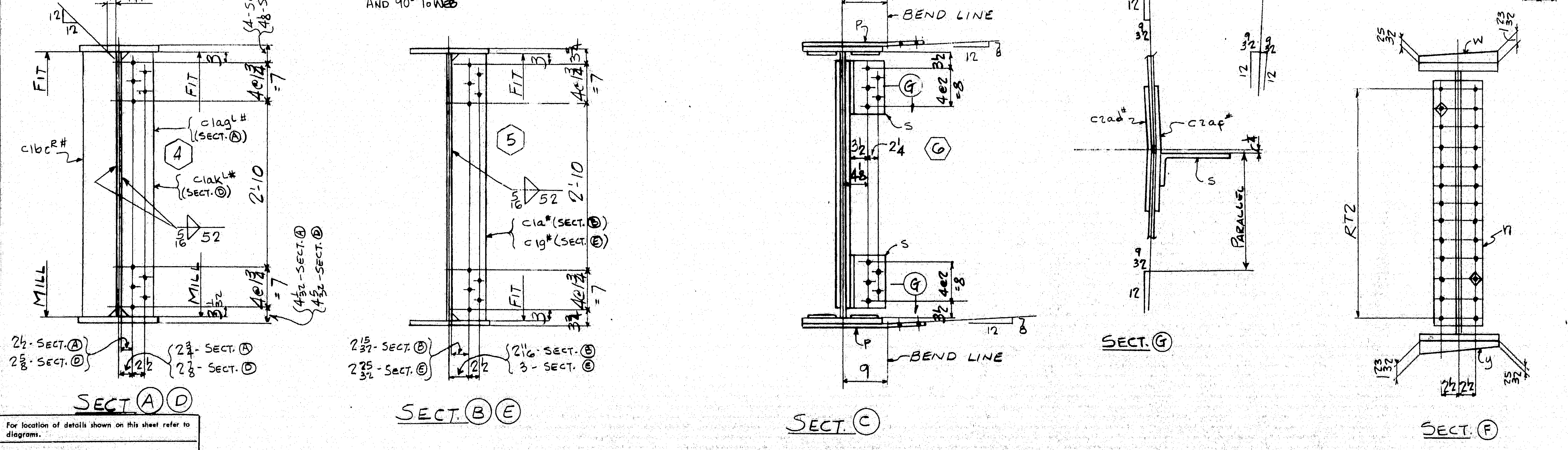
CUSTOMER
MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT Nº I-95-1(22)16
CONTR Nº 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RD DATE 8-12-69 IN CHARGE B.K. BERTOLET
CHECKED BY FRG DATE 8-22-69 SHOP NO. 2
CONTRACT CJ 6249-020 DRAWING NO. 169

35453 (Rev.C) SEP 26

186-169 3/1 GDR #13



GIRDER G8-14



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.

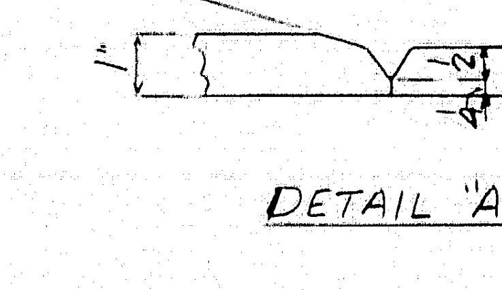
ALL OPEN HOLES - NP 3

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

USE E7016,18,28 LOW HYDROGEN ELECTRODES OR 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.

HOLES MARKED RT TO BE SUB-PUNCHED 1/4" AND REAMED OR DRILLED FROM THE SOLID TO A METAL TEMPLET



DETAIL "AA"

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
Anasel Novitzky
OCT 3 1969

NOTE "B"
SHOP TO USE REMOVABLE PAINT FOR STENCILING.

MATERIAL A36 STEEL
RIVETS OR BOLTS 7/8φ A325
OPEN HOLES 15/16φ
A325 FIELD BOLTS 7/8φ
SHOP CONTACT SURFACES NO PAINT
MILLING - AS NOTED
WELDING - AS NOTED
PAINT ONE COAT AASHO-M72 TYPE II RED LEAD (U.N.)

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			1	GIRDER			G8-14							
2		a	1	PL	54		1/2	37	2 5/8	56×½	38	1¾	17	8
3		b	1	PL	54		7/16	56	4½	56½×7/16	57	5½	18	18
4		c	1	PL	54		1/2	37	3½	56×½	38	1¾	17	18
5		d	1	PLU	16		1	37	0 9/16		37	10½	20	18
6		f	1	PLU	16		1	37	2 13/16		37	10½	20	18
7		g	1	PLU	16		3/4	56	4 11/16		57	1¾	22	18
8		h	1	PLU	16		3/4	56	2 7/16		57	1¾	22	18
9		k	1	PLU	16		1 1/8	37	1 7/16		37	8¾	21	16
10		m	1	PLU	16		1 1/8	37	1 7/16		37	8¾	21	16
11		n	1	PL	8		1/2	4	2				J	
12		p	2	PL	24 1/16		1/2	2	1½	BENT	22	4	24	45
13		s	2	L	7	3¼	1/2	0	11	BENT CF 7×4×½	40	0	36	39
14		w	1	PL	12		(1 23/32×25/32)	1	4½	C.F. CROPS			J	
15		y	1	PL	12		(1 23/32×25/32)	1	4½	C.F. CROPS			J	
16	c	1bc R#	2	BR	7½		3/4	4	6 1/32	MIE FIE	18	4	24	49
17	c	1ag L#	1	BR	7½		3/4	4	6 1/32	MIE FIE	18	4	24	49
18	c	1ak L#	1	BR	7½		3/4	4	6 1/32	MIE FIE	18	4	24	49
19	c	2bk#	2	PL	16		3/8	1	0 7/8				J	
20	c	1a#	1	BR	7		1/2	4	6	F2E	18	4	24	51
21	c	1g#	1	BR	7		1/2	4	6	F2E	18	4	24	51
22	c	2cw#	2	BR	6½		1/2	2	1½		19	0	24	50
23	c	2cy#	2	BR	6½		1/2	2	1½		19	0	24	50
24	c	2ad#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
25	c	2af#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
26	c	2a#	1	PLU	13		3/8	4	2		21	1	24	48
27	c	2b#	2	PLU	15		1/2	2	1		21	3	24	47
28	c	2h#	4	BR	6½		1/2	2	1		19	0	24	50
29														
30		US2	1	UPPER	SHOE					(DET ON DWG #2)				
31		US7	1	UPPER	SHOE					(DET. ON DWG #2)				
32			6	325	7/8φ			0	3					
33			46	325	7/8φ			0	2½					
34			64	325	7/8φ			0	3½				M	
35			116	HW	1 3/4φ	15/16φ	3/16							
36			8	SB	7/8φ			0	3¼	HEX HD & NUT				
37			2	SB	7/8φ			0	2	HEX HD & NUT			M	
38		FW	1	WD			3/16	0	8					
39		FWS	1	WD			5/16	52	0					
40		FWL	1	WD			5/16	522	0½					
41		FWS	1	WD			3/8	8	4					
42		FW	1	WD			1/2	2	4					
43		SDS	1	WD			7/16	4	6					
44		VGOS	1	WD			3/4	2	8					
45														
46														
47														
48														
49														
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52														
53														
54														
55														

INSTALLMENT - 8E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G8-14	GIRDER (44½×60×131'-0)	

PAY ITEM - 504.711

GIRDER

CUSTOMER
MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT Nº I-95-1(22)16
CONTR Nº 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RD DATE 8-12-69 IN CHARGE B.K. BERTOLET
CHECKED BY FRS DATE 8-22-69 SHOP NO. 2
CONTRACT CJ 6249-020 DRAWING NO. 170

NO.	DATE	INIT.
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REVISION

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

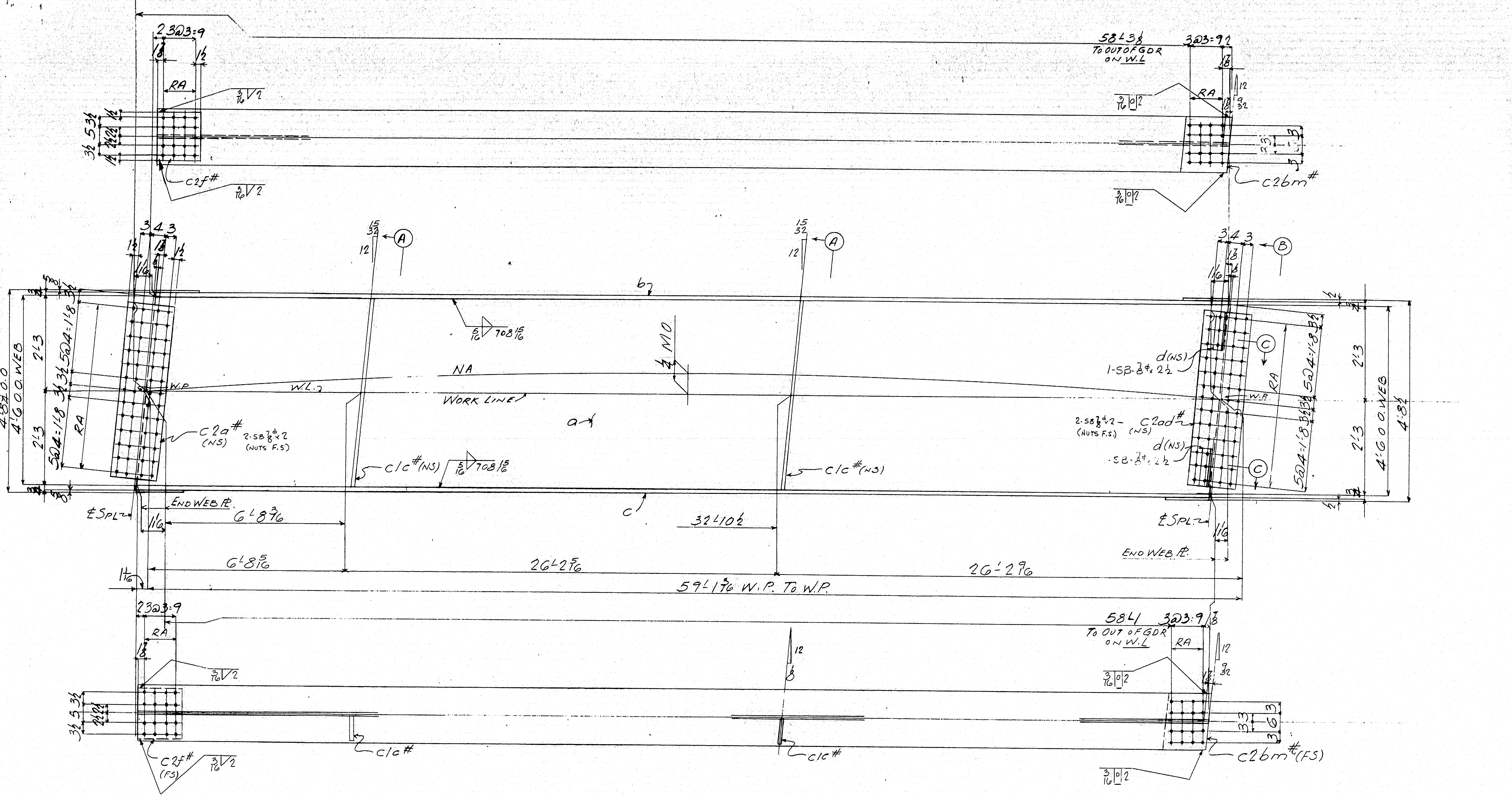
For location of details shown on this sheet refer to diagrams.

E9

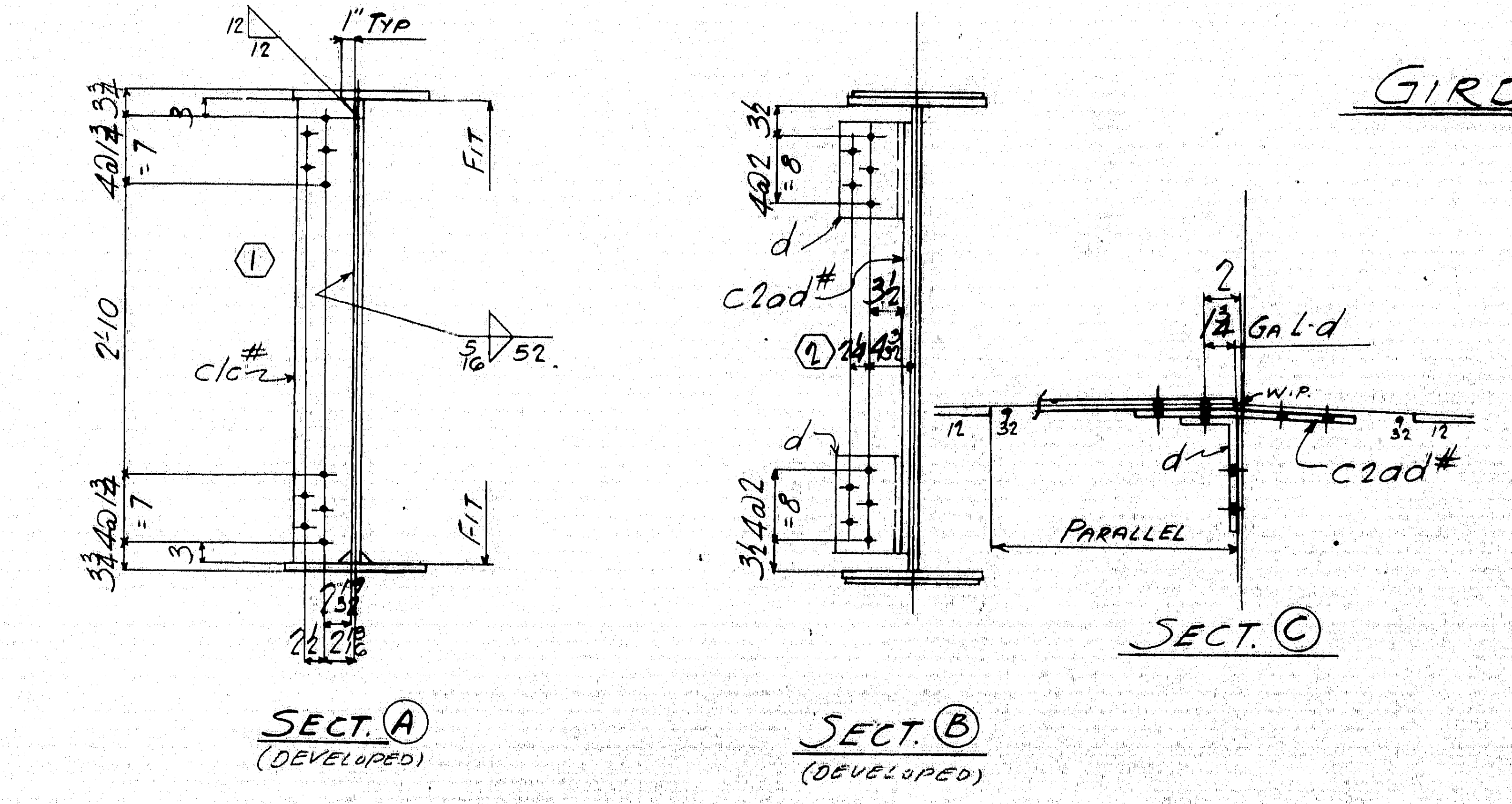
35453 (Rev. C 4-65)

106-170.3

SEP 26



GIRDER G7-1



SECT. Ⓐ (DEVELOPED)

SECT. Ⓑ (DEVELOPED)

SECT. Ⓒ

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

E9

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		1	GIRDER G7-1										
2													
3	a	1	PL	54		7/16	59	3 1/16	CF 56 1/2 x 7/16	59	6 3/4	18	16
4	b	1	PLU	16		3/4	59	1/8		59	3	22	16
5	c	1	PLU	16		3/4	59	1/8		59	3	22	16
6	C 1c#	2	BR	7		1/2	4	6	(F2E)	18	4	24	51
7	C 2a#	1	PL	13		3/8	4	2		21	1	24	48
8	C 2f#	2	PL	15		5/8	1	0 3/8	CF 15 1/2 x 5/8	20	2	24	44
9	C 2bm#	2	PL	16		1/2	1	0 3/8		20	2	24	46
10	d	2	L	7	3 1/2	1/2	0	11	(CUT 7x4x1/2) BT	40	0	36	39
11	C 2ad#	1	PL	13		3/8	4	2	(BENT	21	1	24	48
12													
13	SD	1	WD			3/16	0	8					
14	FW	1	WD			3/16	0	8					
15	FWL	1	WD			5/16	253	7 3/4					
16	FWS	1	WD			3/16	17	4					
17													
18													
19													
20		4	SB	7/8 φ			0	2	HH-HN			M	
21		2	SB	7/8 φ			0	2 1/2	HH & HN			M	
22													
23													
24													
25													
26													
27													
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55													

INSTALLMENT 7W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G7-1	GIRDER 16x56 3/4 x 60' 4 3/8	

PAY ITEM - 504.711

HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Anatol Novitzky OCT 3

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.

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.

MATERIAL A36 STEEL
RIVETS NONE
OPEN HOLES 15/16 φ
A325 FIELD BOLTS 7/8 φ
SHOP CONTACT SURFACES NO PAINT
MILLING - NONE
REAMING - AS NOTED
PAINT ONE COAT AASHO M72 TYPE II RED LEAD (UN)
WELDING - AS NOTED

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

NO.	DATE	INIT.
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REVISION

GIRDER G7-1

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

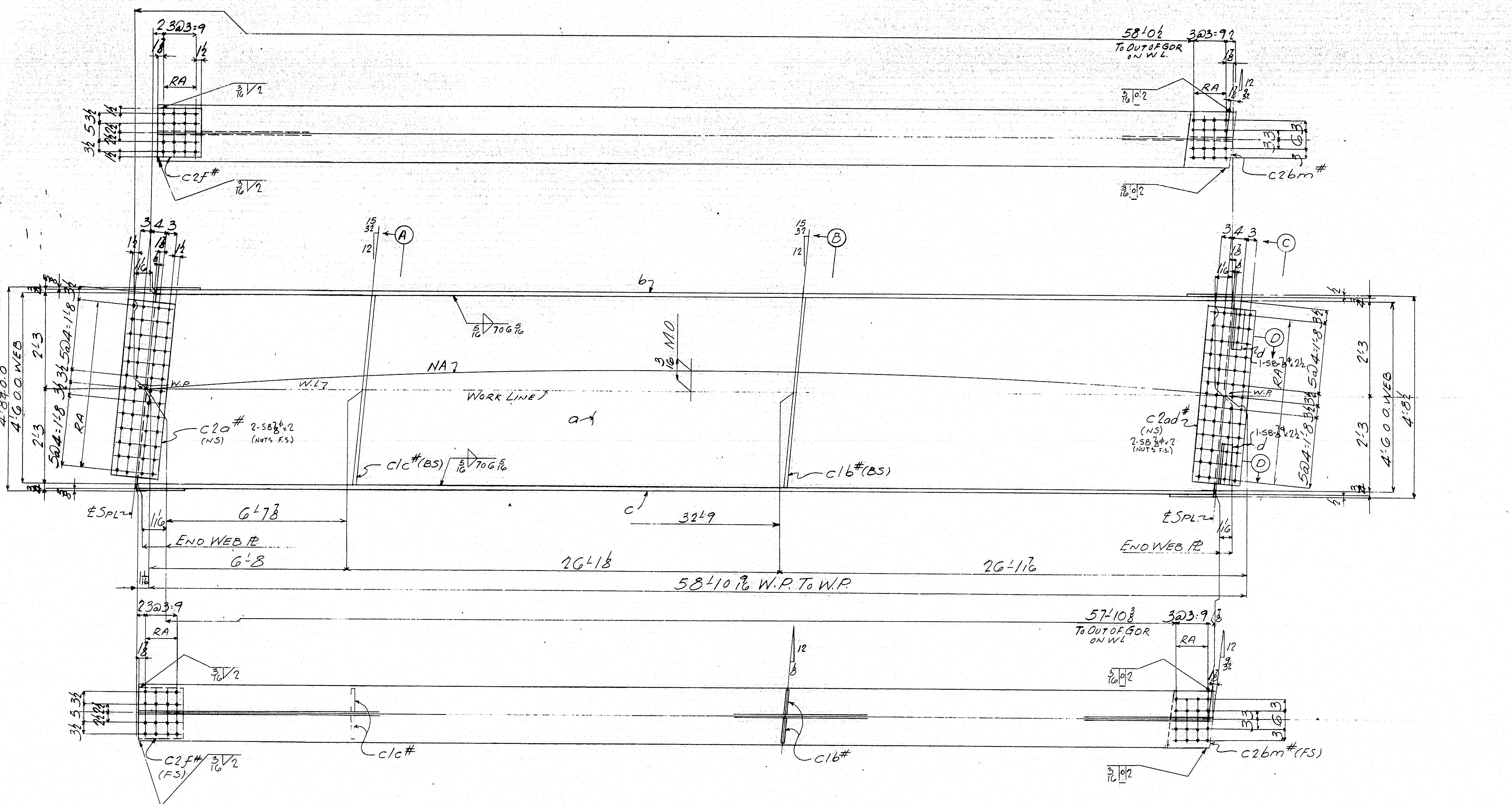
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY BTD DATE IN CHARGE B.K. BERTOLET
CHECKED BY C B DATE 8-14-69 SHOP NO. 2
CONTRACT CJ6249-021 DRAWING NO. 171

171

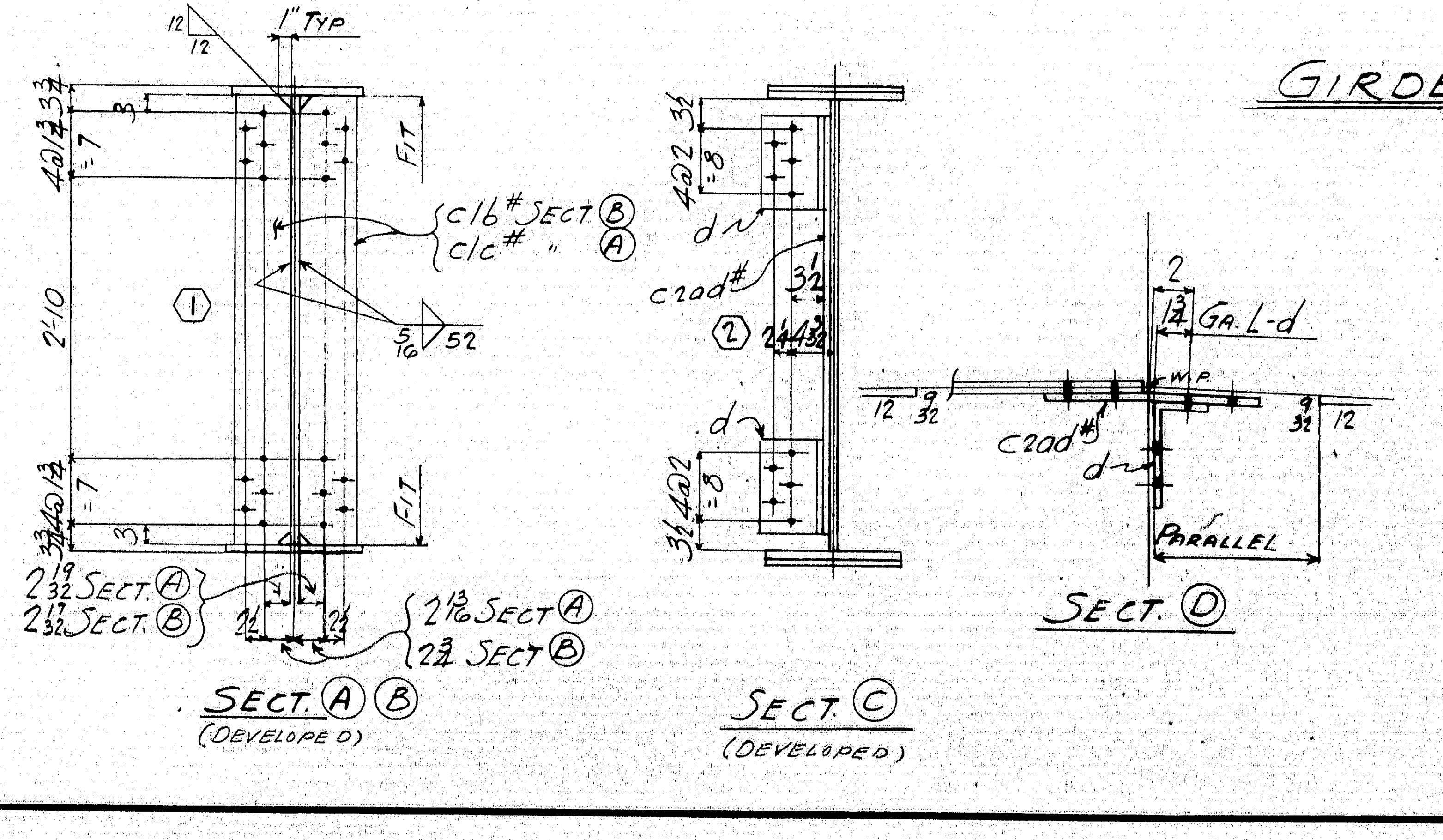
3 106 - 171 GDR #1

35453 (Rev.C 4-65)

SEP 26



GIRDER G7-2



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.	MILL ORDER ITEM PAGE	MILL ORDER ITEM LINE
1			1	GIRDER G7-2										
2														
3		a	1	PL	54		7/16	59	0 7/16	CF56½ x 7/16	59	6¼	18	16
4		b	1	PLU	16		3/4	58	10½		59	3	22	16
5		c	1	PLU	16		3/4	58	10½		59	3	22	16
6	C	1c#	2	BR	7		½	4	6	(F2E)	18	4	24	51
7	C	2a#	1	PL	13		⅜	4	2		21	1	24	48
8	C	2f#	2	PL	15		⅝	1	0⅜	CF15½ x ⅝	20	2	24	44
9	C	1b#	2	BR	7		½	4	6	(F2E)	18	4	24	51
10	C	2bm#	2	PL	16		½	1	0⅜		20	2	24	46
11	C	2ad#	1	PL	13		⅜	4	2	(BENT)	21	1	24	48
12		d	2	L	7	3¼	½	0	11	(CUT 7x4x½) BT	40	0	36	39
13		SD	1	WD			3/16	0	8					
14		FW	1	WO			3/16	0	2					
15		FWL	1	WO			5/16	235	5¼					
16		FWS	1	WO			5/16	34	8					
17														
18														
19			4	SB	⅞Φ			0	2	HH-HN			M	
20			2	SB	⅞Φ			0	2½	HH & HN			M	
21														
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INSTALLMENT 7W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G7-2	GIRDER 16x56¾x60'-1½	

PAY ITEM - 504.711

HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Anatol Novitzky OCT 3

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.

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.

MATERIAL A36 STEEL
RIVETS [redacted] NONE
OPEN HOLES 15/16Φ
A325 FIELD BOLTS ⅞Φ
SHOP CONTACT SURFACES NO PAINT
MILLING - NONE
REAMING - AS NOTED
PAINT ONE COAT AASHO M72 TYPE II RED LEAD (UN)
WELDING - AS NOTED

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

NO	DATE	INIT.
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REVISION

GIRDER G7-2

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
STRUCTURE PROJECT No I-95-1(22)16
CONTR No3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL

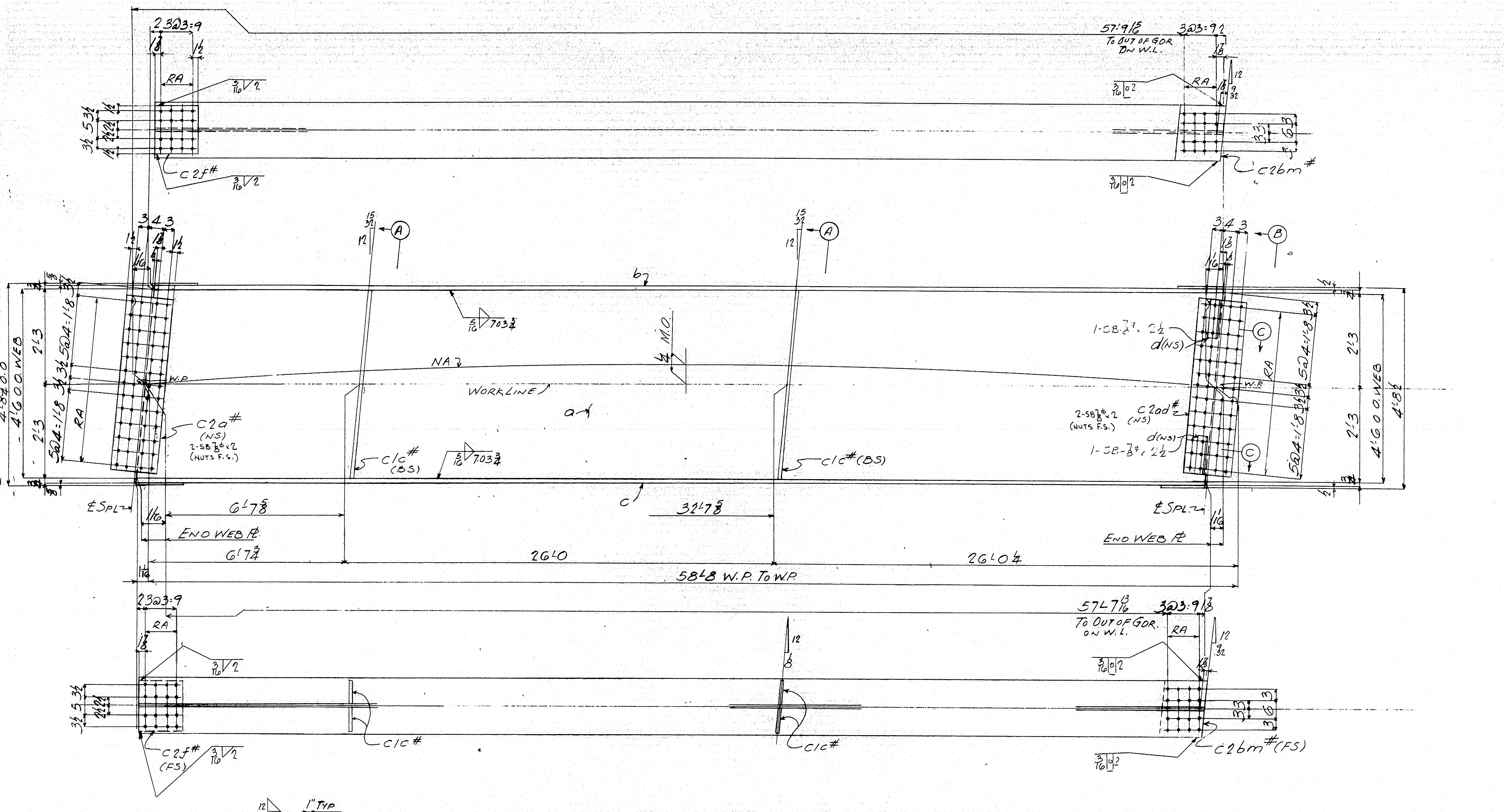
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY BTD DATE IN CHARGE B.K. BERTOLET
CHECKED BY CB DATE 8-15-69 SHOP NO. 2
CONTRACT CJ6249-021 DRAWING NO. 172

For location of details shown on this sheet refer to diagrams.
E9

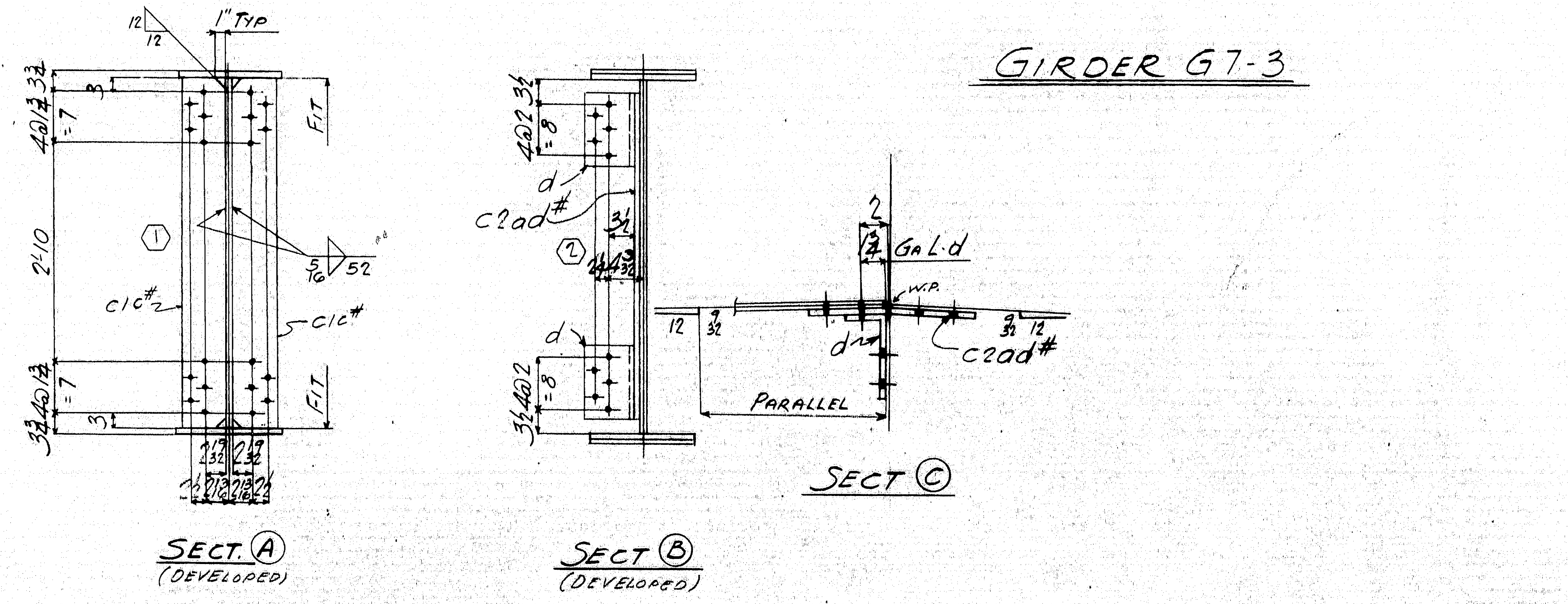
35453 (Rev. C 4-65)

3 106-172 GDR #2 SEP 26

0 1 2 3 4 5 INCHES



GIRDER G7-3



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		1	GIRDER G7-3										
2													
3	a	1	PL	54		7/16	58	9 7/8	CF 56 1/2 × 7/16	59	6 1/2	44	16
4	b	1	PLU	16		3/4	58	7 15/16		59	4 1/2	37	16
5	c	1	PLU	16		3/4	58	7 15/16		59	4 1/2	37	16
6	d	2	L	7	3 1/4	1/2	0	11	(CUT 7×4×1/2) BT	40	0	36	39
7	C 1c#	4	BR	7		1/2	4	6	(F2E)	13	10 1/4	47	19
8	C 2f#	2	PL	15		5/8	1	0 3/8	CF 15 1/2 × 5/8	20	2	24	44
9	C 2a#	1	PL	13		3/8	4	2		21	1	24	48
10	C 2ad#	1	PL	13		3/8	4	2	(BENT)	21	1	24	48
11	C 2bm#	2	PL	16		1/2	1	0 7/8		20	2	24	46
12													
13	FW	1	WD			3/16	0	8					
14													
15	FWL	1	WD			5/16	234	7					
16	FWS	1	WD			5/16	34	8					
17	SD	1	WD			3/16	0	8					
18													
19		4	SB	7/8 φ			0	2	HH-HN			M	
20		2	SB	7/8 φ			0	2 1/2	HH & HN			M	

INSTALLMENT-7W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G7-3	GIRDER 16×56 3/4×59'-11	

PAY ITEM-504.711

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.

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.

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Anatol Novitzky OCT 3 1969

MATERIAL A36 STEEL
RIVETS ~~SHOP~~ NONE
OPEN HOLES 15/16 φ
A325 FIELD BOLTS 7/8 φ
SHOP CONTACT SURFACES NO PAINT
MILLING - NONE
REAMING - AS NOTED
PAINT ONE COAT AASHO M72 TYPE II RED LEAD (UN)
WELDING - AS NOTED

NO.	DATE	INIT.
S1	12-18-69	RLP

REVISION

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

GIRDER G7-3

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

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY BTD DATE IN CHARGE B.K. BERTOLET
CHECKED BY C B DATE 8-21-69 SHOP NO. 2
CONTRACT CJ6249-021 DRAWING NO. 173

	a	b	c
a			
b			
c			
d			
e			
f			
g			
h			
k			
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n			
p			
s			
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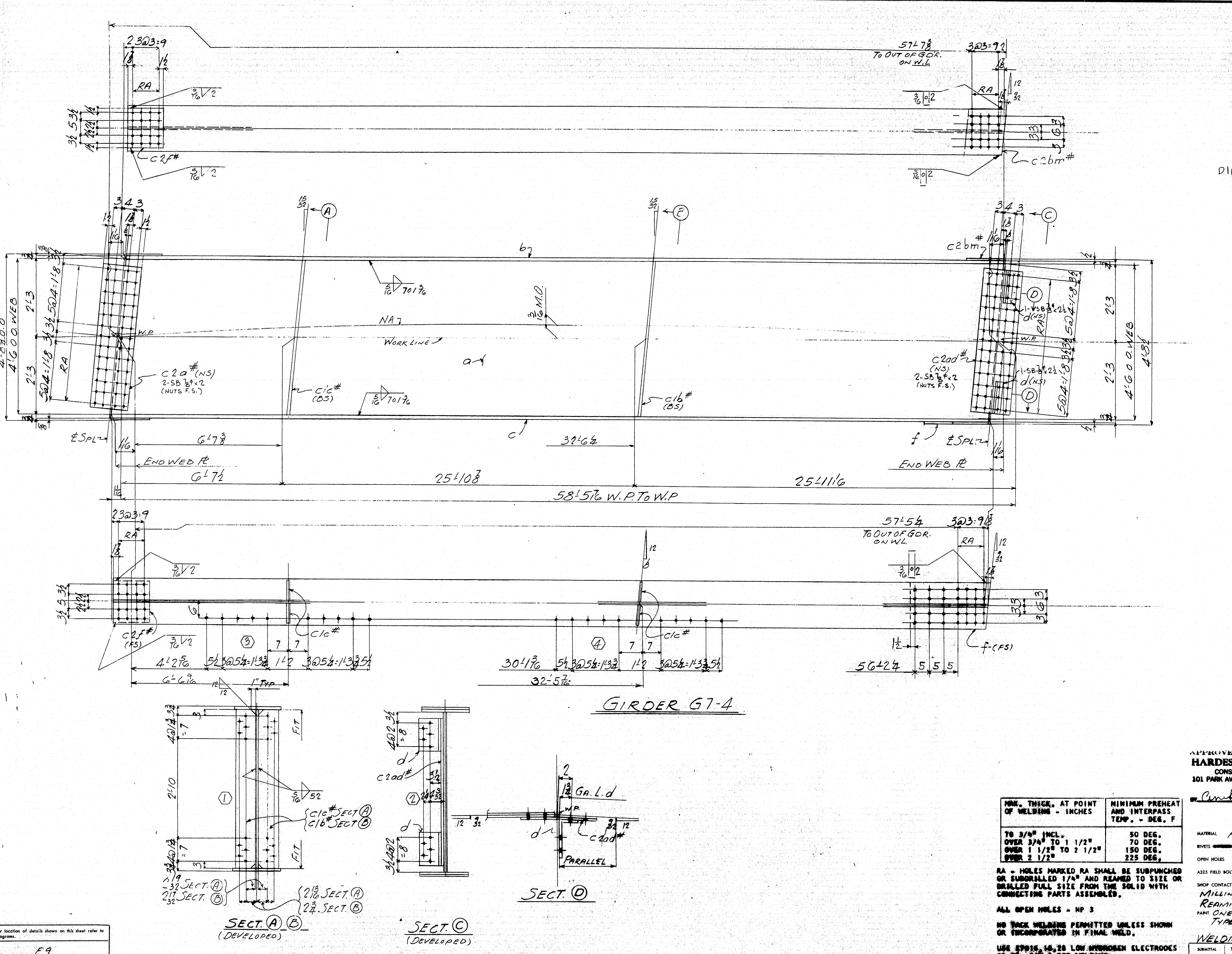
For location of details shown on this sheet refer to diagrams.
E9

35453 (Rev.C 4-65)

3

1/06 - 173 GDR #3

SEP 26



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			1	GIRDER G7-4										
2														
3		a	1	PL	54		7/16	58	7 5/16	CF56 1/2×7/16	59	10 1/2	18	15
4		b	1	PLU	16		3/4	58	5 3/8		59	3	22	16
5		c	1	PLU	16		3/4	58	5 3/8		59	3	22	16
6		d	2	L	7	3 1/4	1/2	0	11	(CUT 7×4×1/2)BT	40	0	36	39
7	C	1c#	2	BR	7		1/2	4	6	(F2E)	18	4	24	51
8	C	2a#	1	PL	13		3/8	4	2		21	1	24	48
9	C	2f#	2	PL	15		5/8	1	0 3/8	CF15 1/2×5/8	20	2	24	44
10	C	2ad#	1	PL	13		3/8	4	2	(BENT)	21	1	24	48
11	C	2bm#	1	PL	16		1/2	1	0 7/8		20	2	24	46
D1(12	C	1b#	2	BR	7		1/2	4	6	(F2E)	18	4	24	51
13		f	1	PL	16		1/2	2	3 9/16		20	2	24	46
14		FW	1	WD			3/16	0	8					
15		FWL	1	WD			5/16	233	8 3/4					
16		FWS	1	WD			5/16	34	8					
17		SD	1	WD			3/16	0	8					
18														
19														
20														
21			4	SB	7/8φ			0	2	HH-HN			M	
22			2	SB	7/8φ			0	2 1/2	HH&HN			M	
23														
24														
25														
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INSTALLMENT 7W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G7-4	GIRDER 16×56 3/4×59'-8 3/8	

PAY ITEM - 504.711

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.

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 BR. SAW-2 FOR WELDING.

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

BY Cornelius Novitzky OCT 3 1969

MATERIAL A36 STEEL
RIVETS NONE
OPEN HOLES 15/16φ
A325 FIELD BOLTS 7/8φ
SHOP CONTACT SURFACES NO PAINT
MILLING - NONE
REAMING - AS NOTED
PAINT ONE COAT AASHO M72 TYPE II RED LEAD (UN)
WELDING - 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		
D1	10/10/69	1/BAL

REVISION

GIRDER G7 4

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

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY BTD DATE 8/11/69 IN CHARGE B.K. BERTOLET
CHECKED BY C.B DATE 8/21/69 SHOP NO. 2
CONTRACT CJ6249-021 DRAWING NO. 174

35453 (Rev.C 4-65)

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

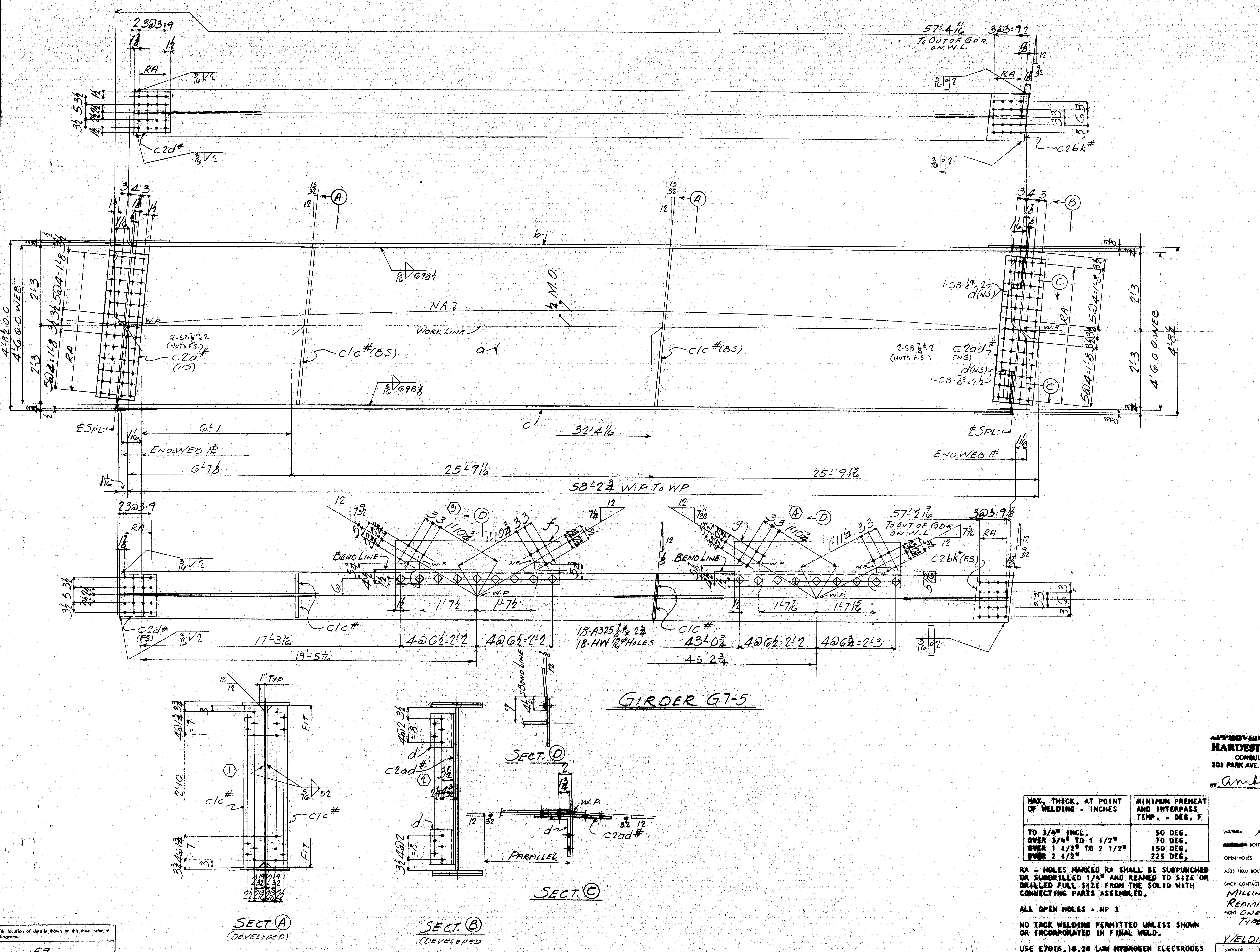
E9

171
2

3

166-174 GOR#4

SEP 26 [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			1	GIRDER G7-5										
2														
3		a	1	PL	54		7/16	58	4 5/8	CF 56 1/2 x 7/16	59	10 1/2	18	15
4		b	1	PLU	16		3/4	58	2 11/16		59	3	22	16
5		c	1	PLU	16		3/4	58	2 11/16		59	3	22	16
6		d	2	L	7	3 1/4	1/2	0	11	(BT) (Cut 7x4x1/2)	40	0	36	39
7		f	1	PL	14 1/2		5/8	4	7		26	0	28	19
8		g	1	PL	14 1/2		5/8	4	8		26	0	28	19
9	C	2a#	1	PL	13		3/8	4	2		21	1	24	48
10	C	1c#	4	BR	7		1/2	4	6	(F2E)	18	4	24	51
11	C	2d#	2	PL	15		1/2	1	0 3/8		21	3	24	47
12	C	2bk#	2	PL	16		3/8	1	0 3/8				J	
13	C	2ad#	1	PL	13		3/8	4	2	(BT)	21	1	24	48
14														
15		FW	1	WD			3/16	0	8					
16		SD	1	WD			3/16	0	8					
17		FW	1	WD			3/16	1	4					
18		FWL	1	WD			5/16	23	10					
19		FWS	1	WD			5/16	34	8					
20			18	325	7/8 φ			0	2 3/4				M	
21			18	HW	1 3/4	15/16	7/16						M	
22														
23														
24			4	SB	7/8 φ			0	2	HH-HN			M	
25			2	SB	7/8 φ			0	2 1/2	HH & HN			M	
26														
27														
28														
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INSTALLMENT 7W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G7-5	GIRDER 27x56 1/2 x 59'-5 3/4	

PAY ITEM - 504.711

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y
BY Anatol Novitzky OCT 3 1969

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.

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.

MATERIAL A36 STEEL
BOLTS 7/8 φ A325
OPEN HOLES 15/16 φ
A325 FIELD BOLTS 7/8 φ
SHOP CONTACT SURFACES No Paint
Milling - None
Reaming - As Noted
PAINT One Coat AASHO M72 Type II Red Lead (UN)
Welding - 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 G7-5

CUSTOMER Maine State Highway Commission
Piscataqua River Bridge
STRUCTURE Project No I-95-1(22)16
Contr No3 - New Hampshire App.
Structural Steel

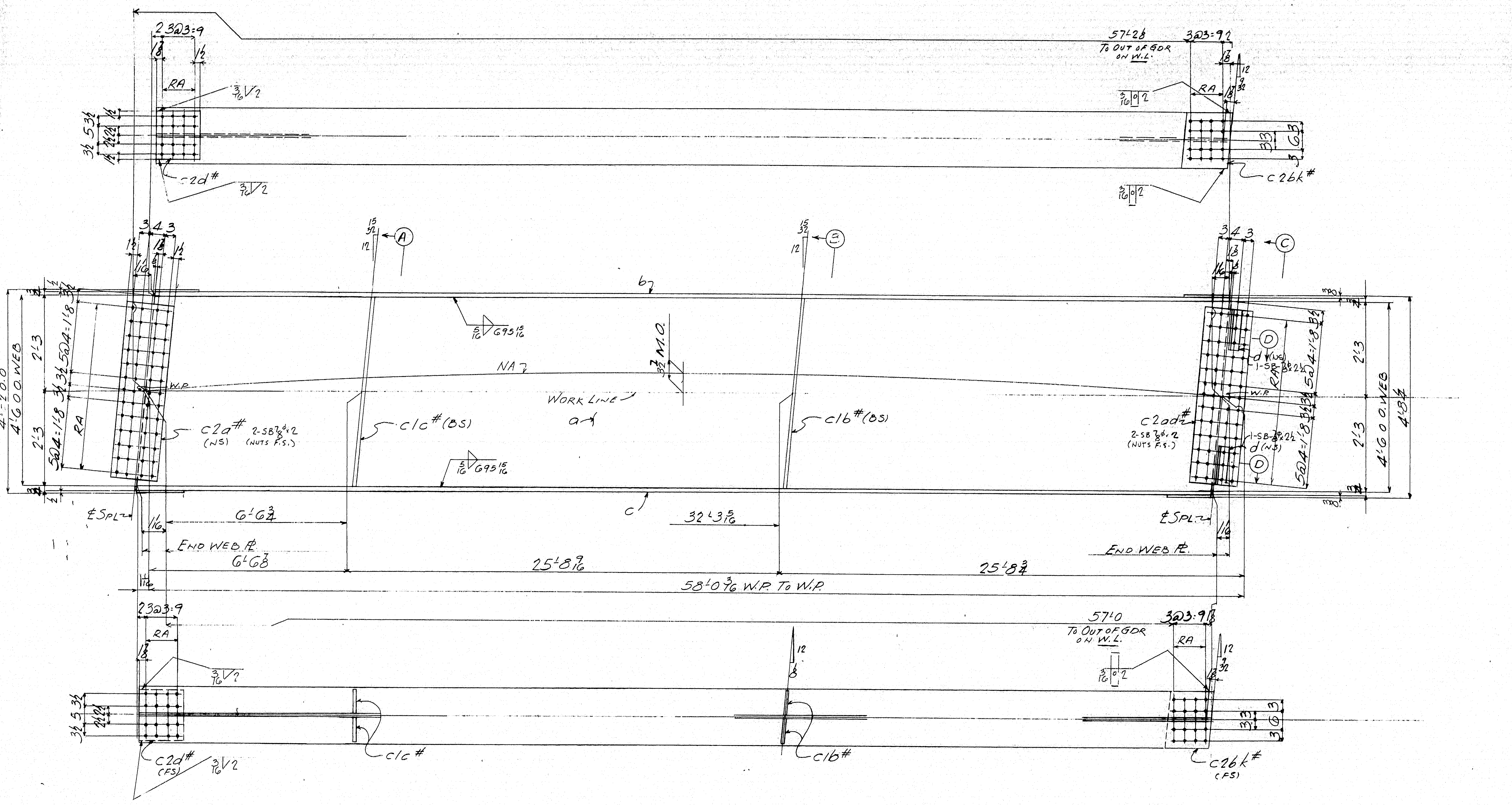
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM Pottstown WORKS
MADE BY BTD DATE 8/12/69 IN CHARGE B.K. Bertolet
CHECKED BY CB DATE 8/18/69 SHOP NO. 2
CONTRACT CJ6249-021 DRAWING NO. 175

For location of details shown on this sheet refer to diagrams.
E9

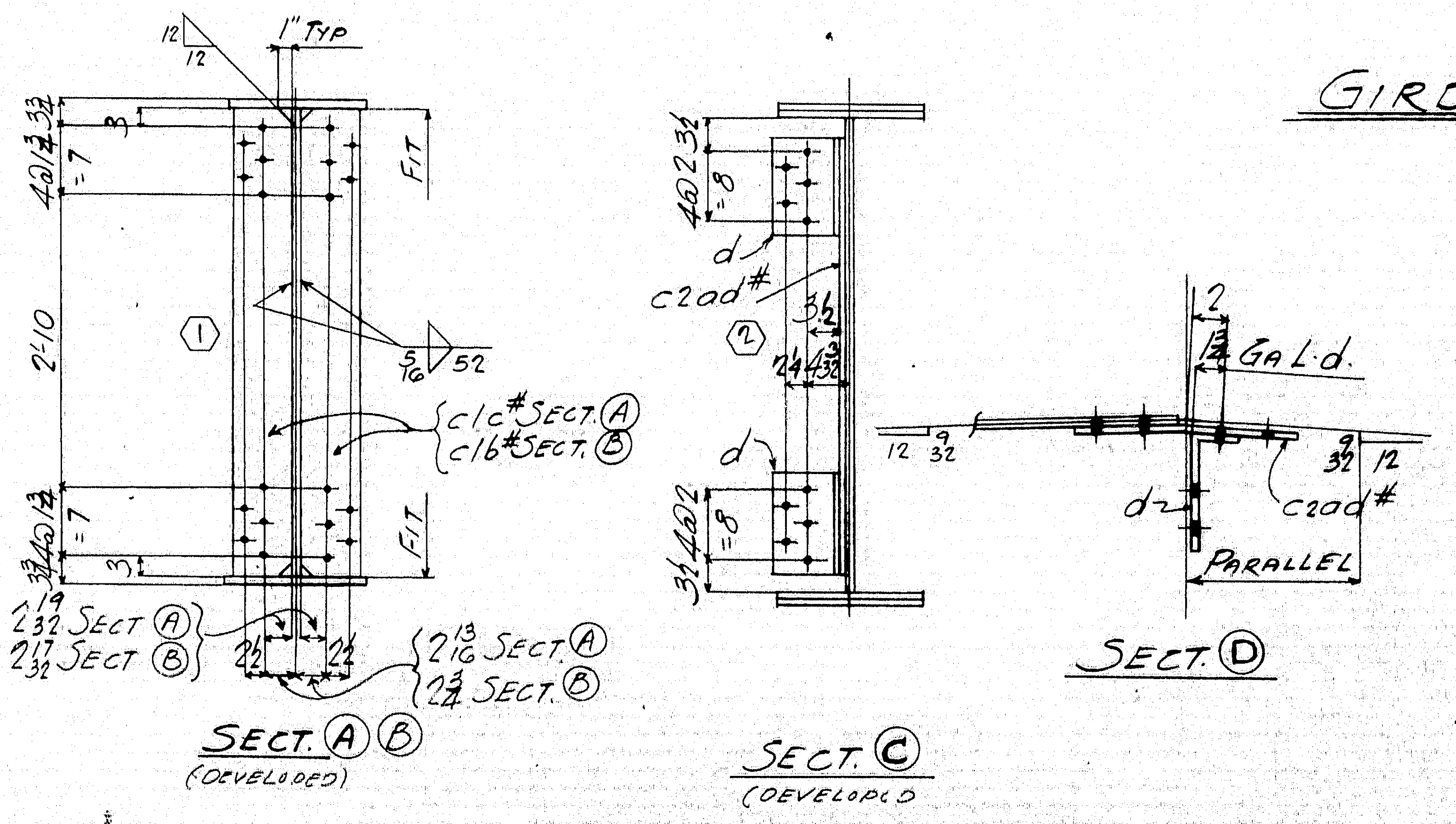
3 106'-175 Gdr #5

35453 (Rev.C 4-65)

SEP 26



GIRDER G7-6



SHOP BILL / MILL ORDER

LINE		ASSEMBLY MARK	NO	SHAPE	SIZE	SIZE OR POUNDS	THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1			1	GIRDER G7-6										
2														
3		a	1	PL	54		7/16	58	2 1/16	CF56 1/2 × 7/16	58	5 1/2	18	17
4		b	1	PLU	16		3/4	58	0 1/8		58	2 1/4	22	17
5		c	1	PLU	16		3/4	58	0 1/8		58	2 1/4	22	17
6		d	2	L	7	3 1/2	1/2	0	11	(BT) (CUT 7×4×1/2)	40	0	36	39
7	C	2a#	1	PL	13		3/8	4	2		21	1	24	48
8	C	1c#	2	BR	7		1/2	4	6	(F2E)	18	4	24	51
9	C	1b#	2	BR	7		1/2	4	6	(F2E)	18	4	24	51
10	C	2d#	2	PL	15		1/2	1	0 3/8		21	3	24	47
11	C	26k#	2	PL	16		3/8	1	0 3/8				J	
12	C	20d#	1	PL	13		3/8	4	2	(BT)	21	1	24	48
13		SD	1	WD			3/16	0	8					
14		FW	1	WL			3/16	0	8					
15		FWL	1	WD			5/16	231	11 3/4					
16		FWS	1	WD			5/16	34	8					
17														
18														
19														
20			4	SB	7/8 φ			0	2	HH-HN			M	
21			2	SB	7/8 φ			0	2 1/2	HH & HU			M	
22														
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INSTALLMENT 7W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G7·6	GIRDER 16×56 1/2×59'-3 1/8	

PAY ITEM - 504.711

APPROVED:
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Aimfel nowitzky OCT 3 1969

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.

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.

MATERIAL A36 STEEL
RIVETS NONE
OPEN HOLES 15/16 φ
A325 FIELD BOLTS 7/8 φ
SHOP CONTACT SURFACES NO PAINT
MILLING - NONE
REAMING - AS NOTED
PAINT ONE COAT AASHO M72 TYPE II RED LEAD (UN)
WELDING - AS NOTED

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

REVISION: NO. 0–9, DATE, INIT.

GIRDER G7·6

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

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

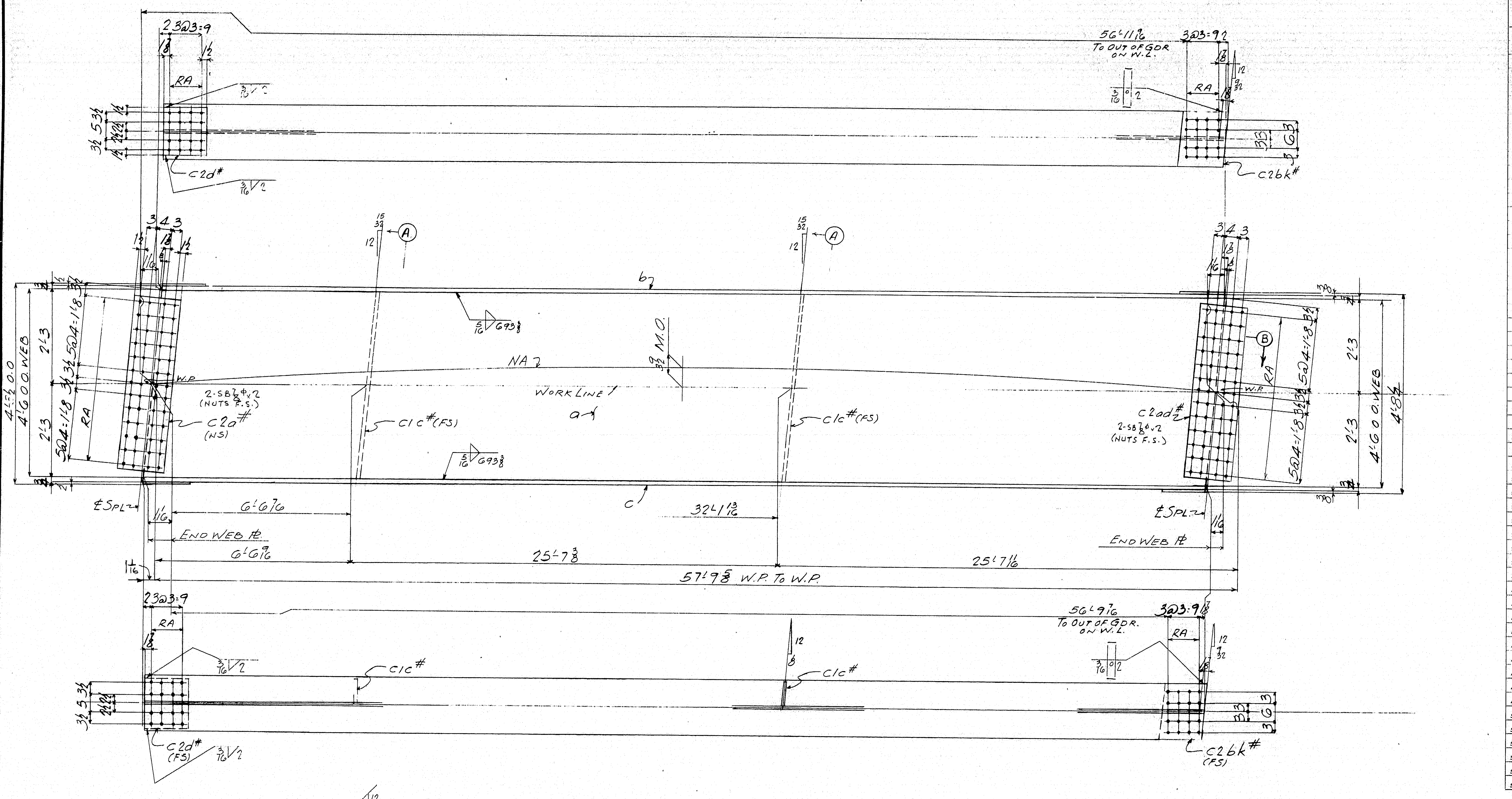
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY BTD DATE 8/19/69 IN CHARGE B.K. BERTOLET
CHECKED BY CB DATE 8/19/69 SHOP NO. 2
CONTRACT CJ6249·021 DRAWING NO. 176

For location of details shown on this sheet refer to diagrams.
E9

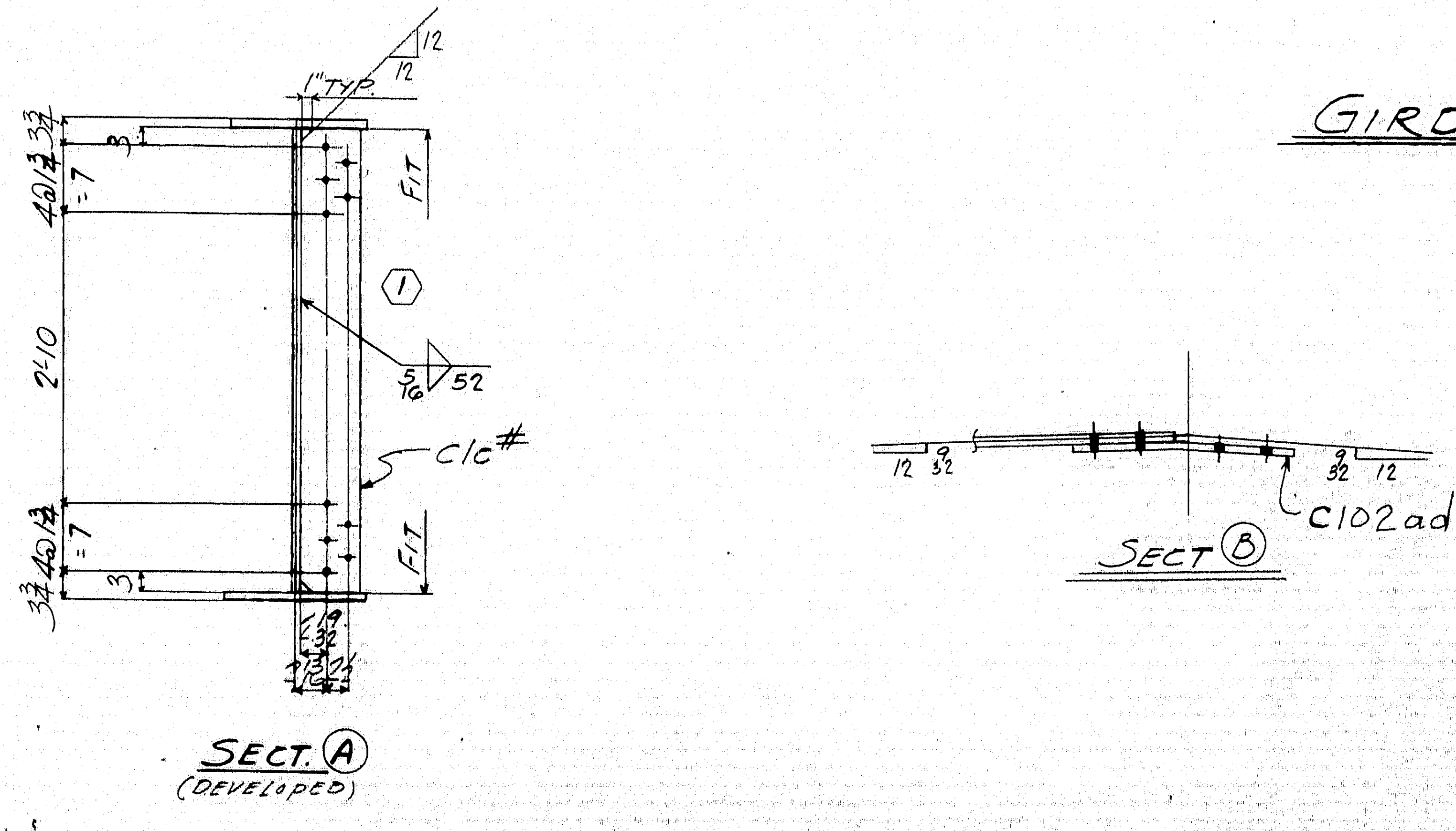
3

106-176 GDR #6

35453 (Rev. C 4-65)



GIRDER G7-7



SHOP BILL										**MILL ORDER**			
LINE	ASSEMBLY MARK	NO	SHAPE	SECTION			LENGTH		REMARKS	LENGTH		ITEM	
				SIZE	SIZE OR POUNDS	THICK	FT.	IN.		FT.	IN.	PAGE	LINE
1		1	GIRDER G7-7										
2													
3	a	1	PL	54		7/16	57	11 1/2	CF 56 1/2 x 7/16	58	5 1/2	18	17
4	b	1	PLU	16		3/4	57	9 9/16		58	2 3/4	22	17
5	c	1	PLU	16		3/4	57	9 9/16		58	2 3/4	22	17
6	C 1c#	2	BR	7		1/2	4	6	(F2E)	18	4	24	51
7	C 2a#	1	PL	13		3/8	4	2		21	1	24	48
8	C 2d#	2	PL	15		1/2	1	0 3/8		21	3	24	47
9	C 2ad#	1	PL	13		3/8	4	2	(OT)	21	1	24	48
10	C 2bk#	2	PL	16		3/8	1	0 7/8				J	
11													
12													
13	SD	1	WD			3/16	0	8					
14	FW	1	WD			3/16	0	8					
15	FWL	1	WD			5/16	231	1 1/2					
16	FWS	1	WD			5/16	17	4					
17													
18													
19													
20		4	SB	7/8 φ			0	2	HH-HN			M	
21													
22													
23													
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INSTALLMENT 7W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G7-7	GIRDER 16x56 1/2x59'-0 9/16	

PAY ITEM - 504.711

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
[redacted] NEW YORK 12, [redacted]
Arnold Novitzky OCT [redacted]

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.

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.

MATERIAL A36 STEEL
RIVETS NONE
OPEN HOLES 15/16 φ
A325 FIELD BOLTS 7/8 φ
SHOP CONTACT SURFACES NO PAINT
MILLING - NONE
REAMING - AS NOTED
PAINT ONE COAT AASHO M72 TYPE II RED LEAD (UN)
WELDING - 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		

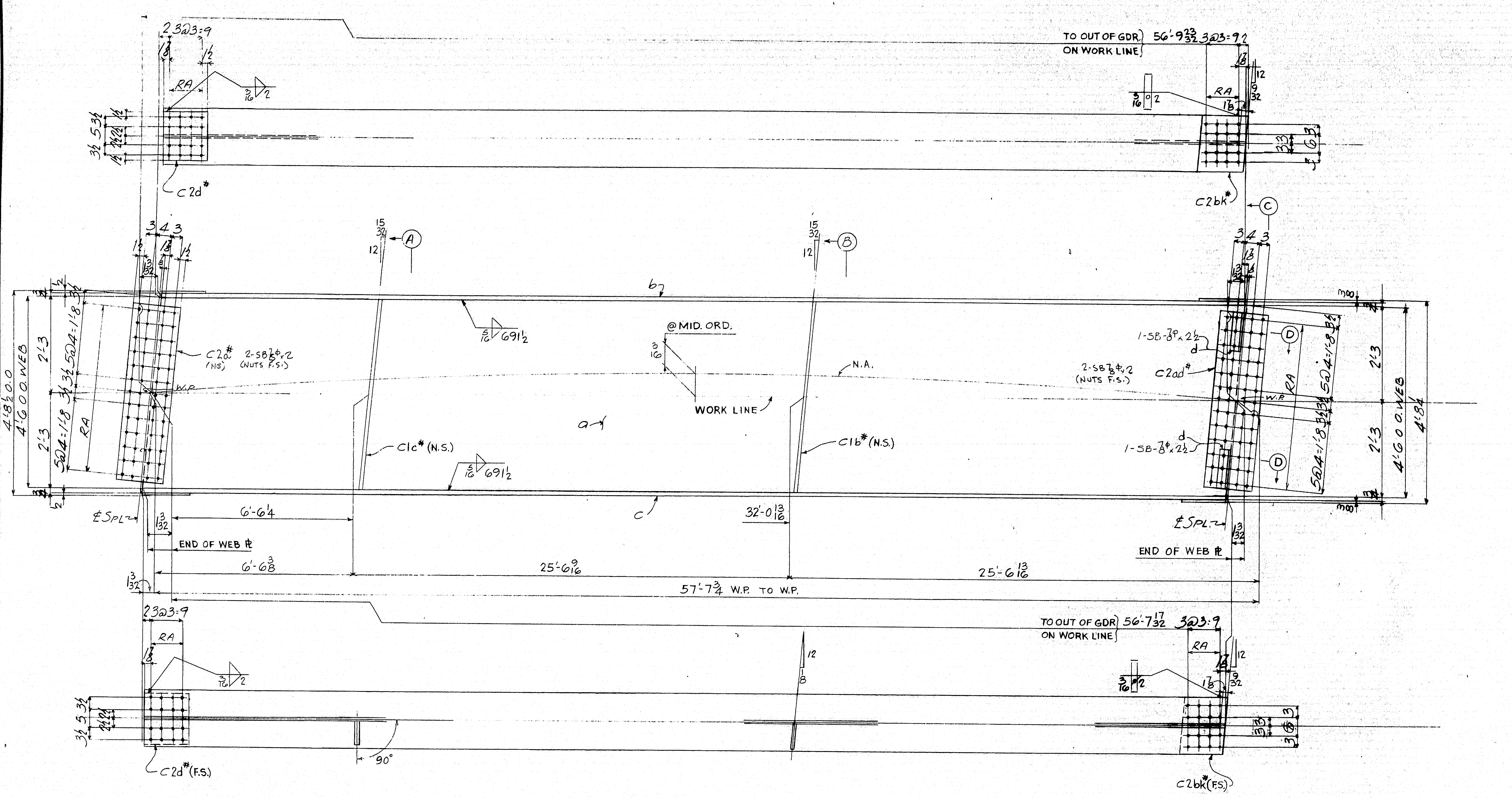
GIRDER G7-7

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

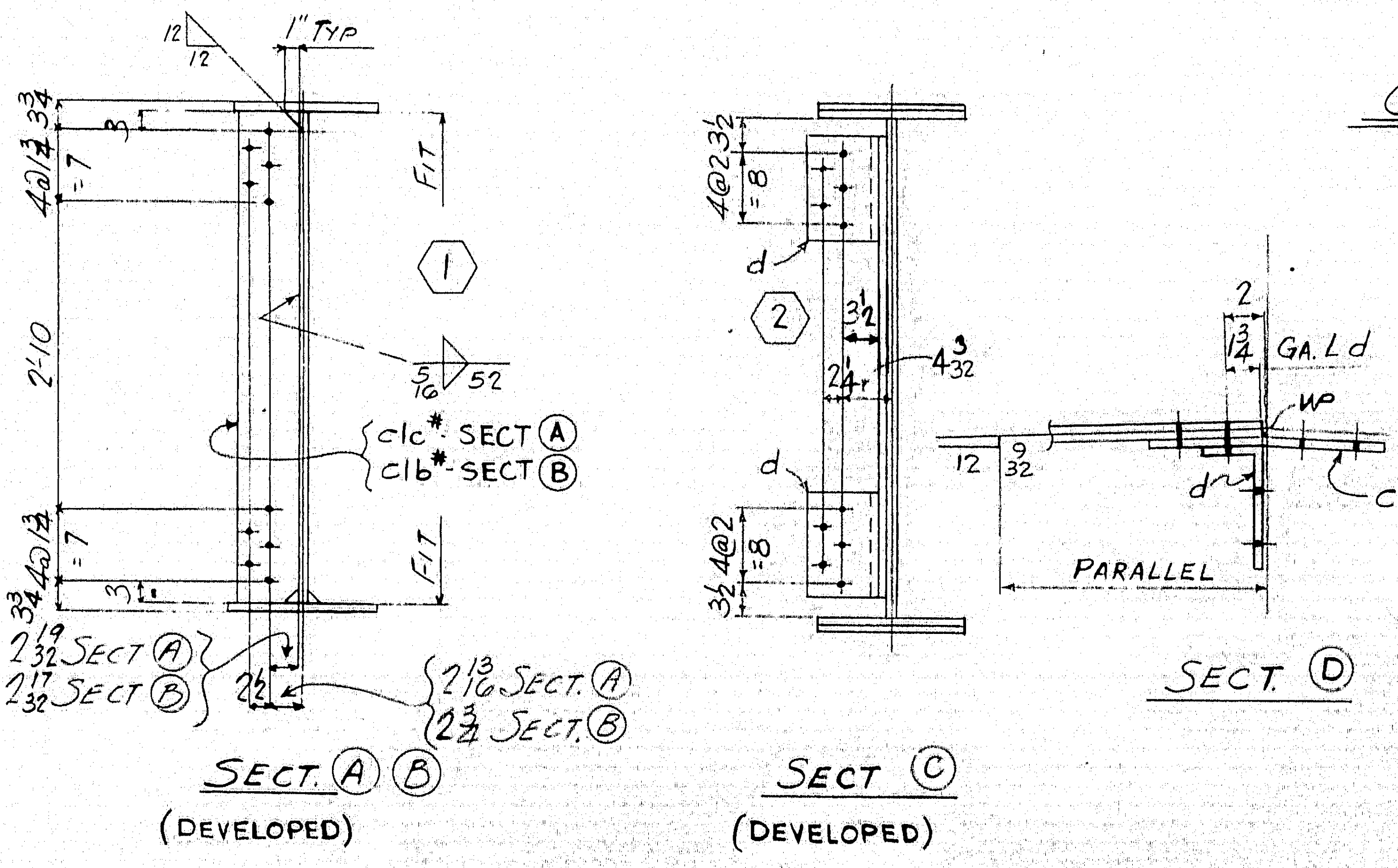
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY BTD DATE 8/13/69 IN CHARGE B.K. BERTOLET
CHECKED BY C.B. DATE 8/19/69 SHOP NO. 2
CONTRACT CJ6249-021 DRAWING NO. 177

For location of details shown on this sheet refer to diagrams.
E9

3 106-177 GDR#7



GIRDER G7-8



SECT. A B
(DEVELOPED)

SECT. C
(DEVELOPED)

SECT. D

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			1	GIRDER G7-8										
2														
3		a	1	PL	54		7/16	57	9 11/16	CF 56 1/2 x 7/16	58	5 1/2	18	17
4		b	1	PLU	16		3/4	57	7 11/16		58	2 1/4	22	17
5		c	1	PLU	16		3/4	57	7 11/16		58	2 1/4	22	17
6		d	2	L	7	3 1/4	1/2	0	11	CF 7 X 4 X 1/2 (BT.)	40	0	36	39
7	C	1b*	1	BR	7		1/2	4	6	F2E	18	4	24	51
8	C	1c*	1	BR	7		1/2	4	6	F2E	18	4	24	51
9	C	2a*	1	PL	13		3/8	4	2		21	1	24	48
10	C	2d*	2	PL	15		1/2	1	0 3/8		21	3	24	47
11	C	2ad*	1	PL	13		3/8	4	2	BENT	21	1	24	48
12	C	2bk*	2	PL	16		3/8	1	0 7/8				J	
13		SD	1	WD			3/16	0	8					
14		FW	1	WD			3/16	0	8					
15		FWL	1	WD			5/16	230	6					
16		FWS	1	WD			5/16	17	4					
17														
18														
19														
20			4	SB	7/8φ			0	2	HH-HN			M	
21			2	SB	7/8φ			0	2 1/2	HH & HN			M	
22														
23														
24														
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INSTALLMENT 7E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G7-8	GIRDER 16x56 1/2 x 58'-10 3/4	

PAY ITEM - 504.711

APPROVED:
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Arnold Noirtly
OCT 3

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.

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] 16, 28 LOW HYDROGEN ELECTRODES OR [illegible] FOR WELDING.

MATERIAL A36 STEEL
RIVETS NONE
OPEN HOLES 15/16φ
A325 FIELD BOLTS 7/8φ
SHOP CONTACT SURFACES NO PAINT
MILLING - NONE
REAMING - AS NOTED
PAINT ONE COAT AASHO M72 TYPE II RED LEAD (UN)
WELDING - AS NOTED

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

REVISION NO.	DATE	INIT.
0		
9		
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GIRDER G7-8

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

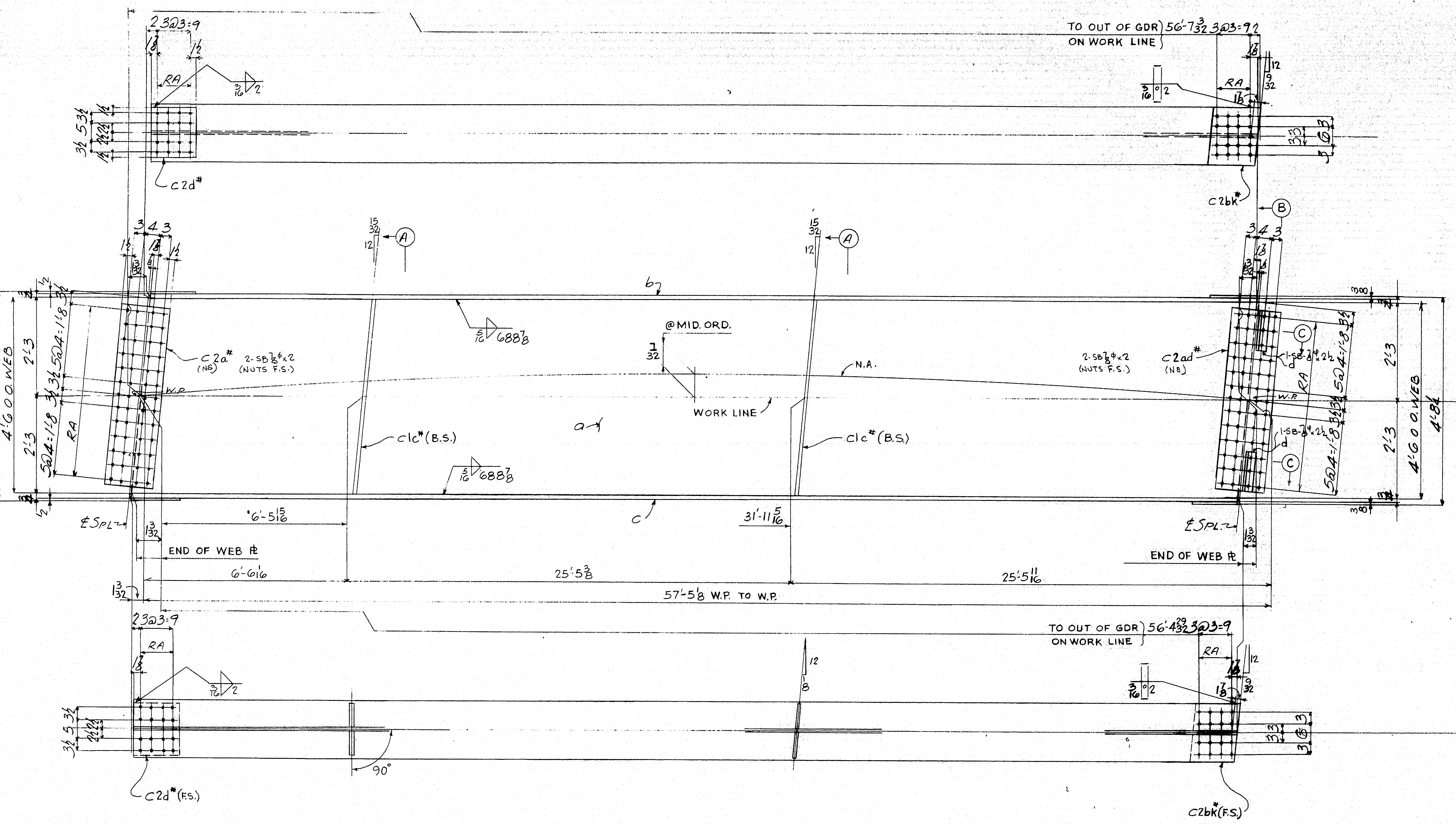
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY B.A.L. DATE 8-13-69 IN CHARGE B.K. BERTOLET
CHECKED BY C.B. DATE 8-27-69 SHOP NO. 2
CONTRACT CJG249-021 DRAWING NO. 178

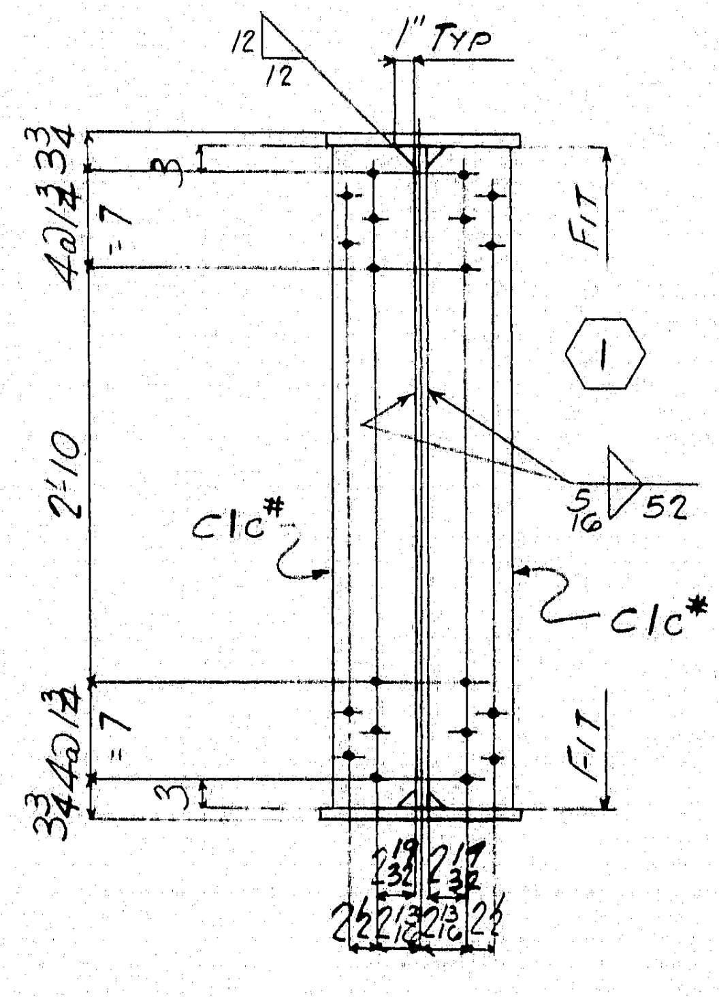
For location of details shown on this sheet refer to diagrams.
E9

3 106-178 GDR #8

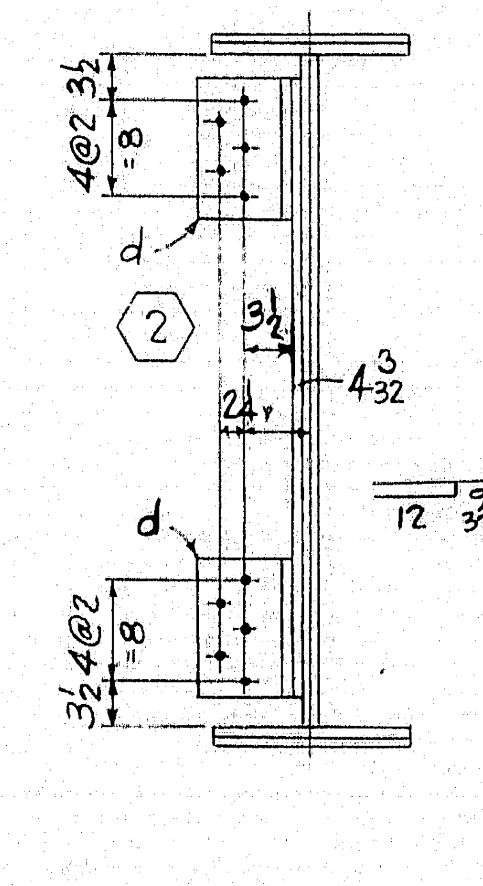
35493 (Rev.C 4-65)



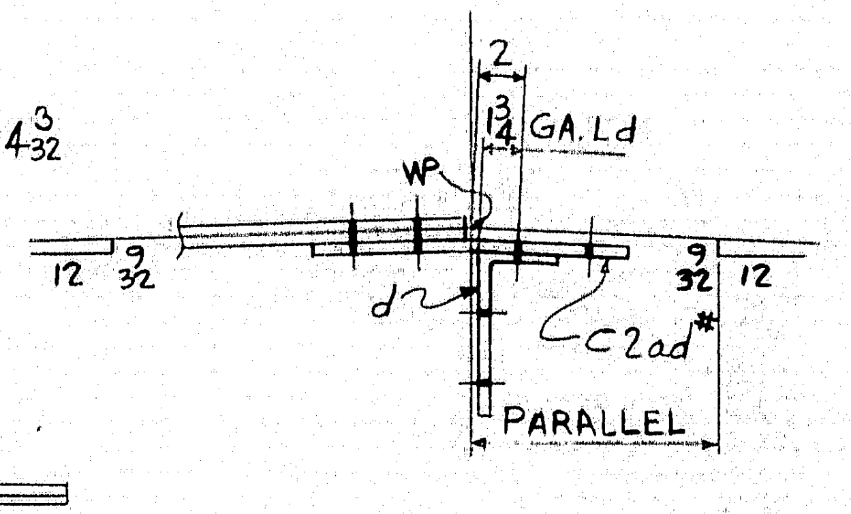
GIRDER G7-9



SECT. Ⓐ
(DEVELOPED)



SECT. Ⓑ
(DEVELOPED)



SECT. Ⓒ

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			1	GIRDER G7-9										
2														
3		a	1	PL	54		7/16	57	7 1/16	CF 56½ × 7/16	58	5½	18	17
4		b	1	PLU	16		3/4	57	5 1/16		58	2¼	22	17
5		c	1	PLU	16		3/4	57	5 1/16		58	2¼	22	17
6		d	2	L	7	3¼	1/2	0	11	CF 7×4×½ (BT.)	40	0	36	39
7	C	1c#	4	BR	7		1/2	4	6	F2E	18	4	24	51
8	C	2a#	1	PL	13		3/8	4	2		21	1	24	48
9	C	2d#	2	PL	15		1/2	1	0 3/8		21	3	24	47
10	C	2ad#	1	PL	13		3/8	4	2	BENT	21	1	24	48
11	C	2bk#	2	PL	16		3/8	1	0 7/8				J	
12														
13		SD	1	WD			3/16	0	8					
14		FW	1	WD			3/16	0	8					
15		FWL	1	WD			5/16	229	7½					
16		FWS	1	WD			5/16	34	8					
17														
18														
19														
20			4	SB	7/8φ			0	2	HH-HN			M	
21			2	SB	7/8φ			0	2½	HH & HN			M	

INSTALLMENT 7E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G7-9	GIRDER 16×56½×58'-8 1/8	

PAY ITEM - 504.711

HARDESTY & HANOVER
CONSULTING ENGINEERS
NEW YORK 17, N.Y.
1969
Arnold Novitzky

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.

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 EQ. SAW-2 FOR WELDING.

MATERIAL A36 STEEL
RIVETS NONE
OPEN HOLES 15/16φ
A325 FIELD BOLTS 7/8φ
SHOP CONTACT SURFACES NO PAINT
MILLING - NONE
REAMING - AS NOTED
PAINT ONE COAT AASHO M72 TYPE II RED LEAD (UN)
WELDING - AS NOTED

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

NO.	DATE	INIT.
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REVISION

GIRDER G7-9
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
STRUCTURE PROJECT NO I-95-1(22)16
CONTR NO 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY B.A.L. DATE 8-12-69 IN CHARGE B.K. BERTOLET
CHECKED BY C.B. DATE 8-27-69 SHOP NO. 2
CONTRACT CJ6249-021 DRAWING NO. 179

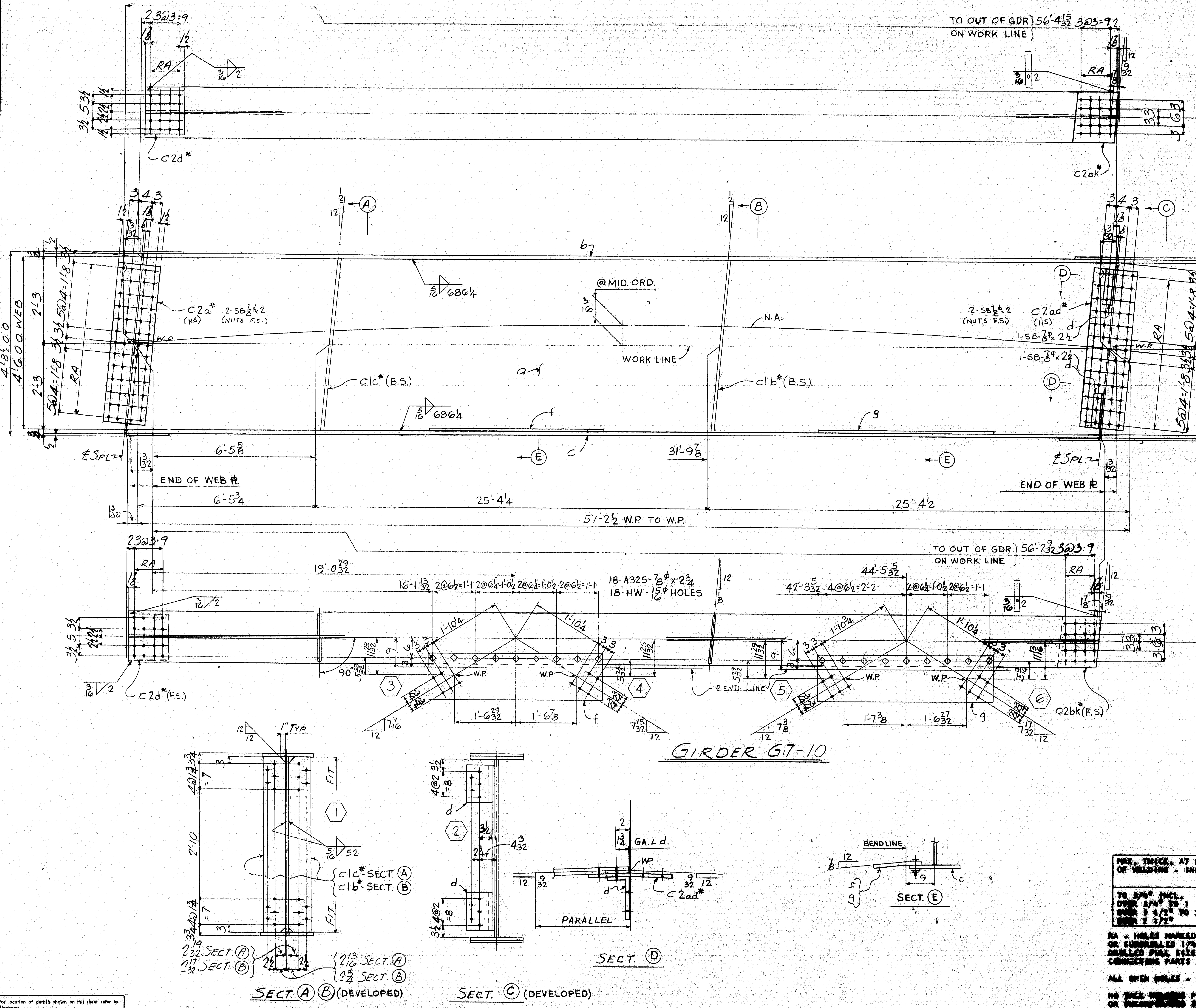
For location of details shown on this sheet refer to diagrams.

E9

3

106-179 GDR #9

35453 (Rev. C 4-63)



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		1	GIRDER G7-10										
2													
3	a	1	PL	54		7/16	57	4 7/16	CF 56 1/2 x 7/16	58	5 1/2	18	17
4	b	1	PLU	16		3/4	57	2 7/16		58	2 1/4	22	17
5	c	1	PLU	16		3/4	57	2 7/16		58	2 1/4	22	17
6	d	2	L	7	3 1/4	1/2	0	11	CF 7X4X1/2 (BT.)	40	0	36	39
7	C 1b#	2	BR	7		1/2	4	6	F2E	18	4	24	51
8	C 1c#	2	BR	7		1/2	4	6	F2E	18	4	24	51
9	C 2a#	1	PL	13		3/8	4	2		21	1	24	48
10	C 2d#	2	PL	15		1/2	1	0 3/8		21	3	24	47
11	C 2ad#	1	PL	13		3/8	4	2	BENT	21	1	24	48
12	C 2bk#	2	PL	16		3/8	1	0 7/8				J	
13	f	1	PL	14 1/2		5/8	4	7	BENT	26	0	28	19
14	g	1	PL	14 1/2		5/8	4	6 1/2	BENT	26	0	28	19
15	FW	1	WD			3/16	0	8					
16	FWL	1	WD			5/16	228	9					
17	FWS	1	WD			5/16	34	8					
18		18	325	7/8			0	2 3/4				M	
19		18	HW	1 3/4	15/16	3/16						M	
20	SD	1	WD			3/16	0	8					
21													
22													
23													
24		4	SB	7/8 ϕ			0	2	HH-HN			M	
25		2	SB	7/8 ϕ			0	2 1/2	HH & HN			M	
26													
27													
28													
29													
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INSTALLMENT 7E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G7-10	GIRDER 16x56 1/2x58'-5 1/2	

PAY ITEM - 504.711

APPROVED:
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
Arnold Novitzky

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.

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED 1/8" 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 [illegible] ELECTRODES OR [illegible] FOR WELDING.

MATERIAL A36 STEEL
BOLTS 7/8 ϕ
OPEN HOLES 15/16 ϕ
A325 FIELD BOLTS 7/8 ϕ
SHOP CONTACT SURFACES No PAINT
MILLING - NONE
REAMING - AS NOTED
PAINT ONE COAT AASHO M72 TYPE II RED LEAD (UN)
WELDING - AS NOTED

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

NO.	DATE	INIT.
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REVISION

GIRDER G7-10

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

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY B.A.L. DATE 8-12-69 IN CHARGE B.K. BERTOLET
CHECKED BY C.B. DATE 8-27-69 SHOP NO. 2
CONTRACT CJ6249-021 DRAWING NO. 180

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

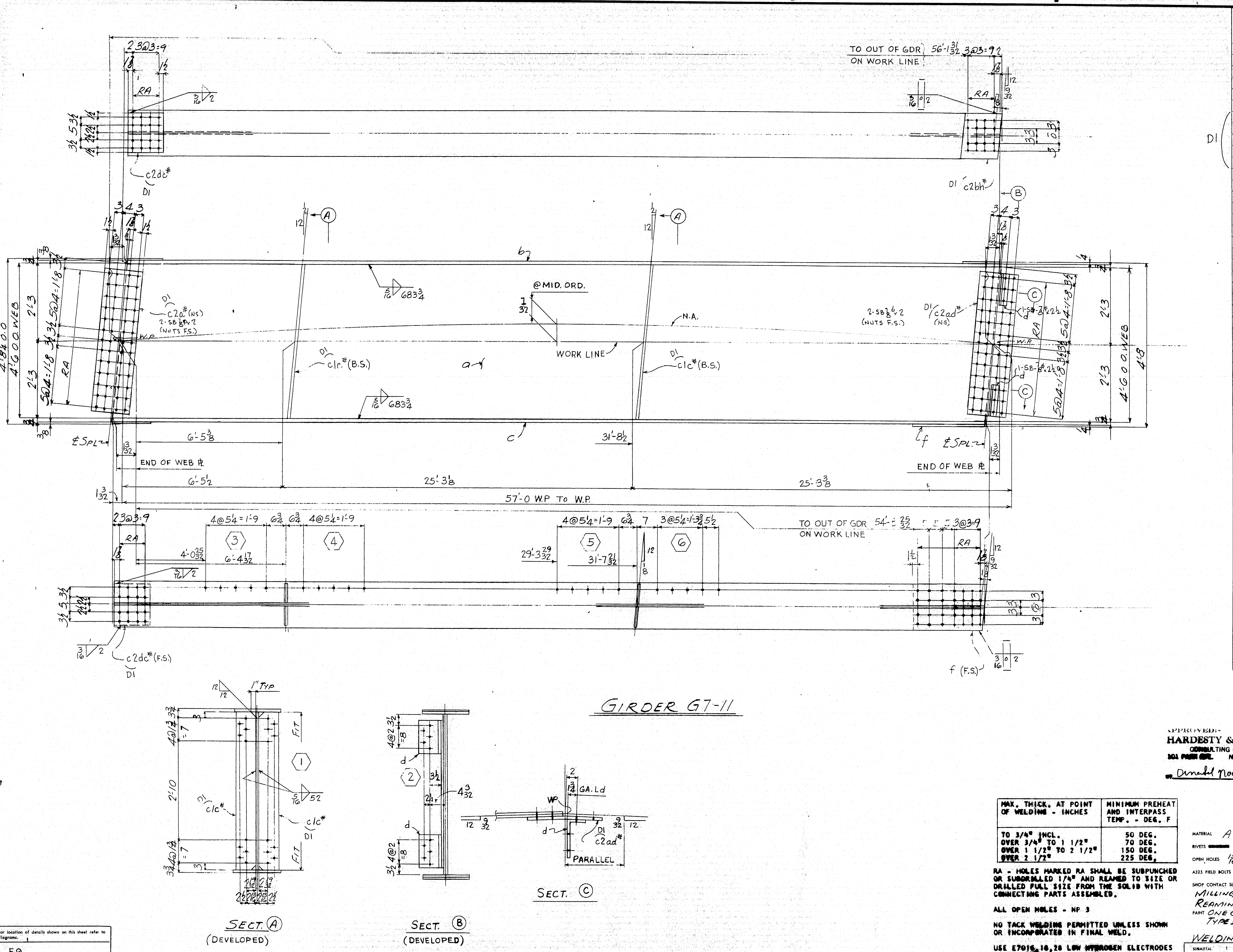
E9

3

10 1/6 - 180 GDR #10

35453

0 1 2 3 4 5 INCHES



	a	b	c
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b			
c			
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f			
g			
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k			
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For location of details shown on this sheet refer to diagrams.

E9

SHOP BILL

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			1	GIRDER G7-11										
2														
3		a	1	PL	54		7/16	57	1 15/16	CF 56 1/2 x 7/16	57	5 1/2	18	18
4		b	1	PLU	16		3/4	56	11 15/16		58	2 1/4	22	17
5		c	1	PLU	16		3/4	56	11 15/16		58	2 1/4	22	17
6		d	2	L	7	3 1/4	1/2	0	11	CF 7X4X1/2 (B.T.)	40	0	36	39
7	c	1c#	4	PL	7		1/2	4	6	F2E	18	4	24	51
8	c	2a#	1	PL	13		3/8	4	2		21	1	24	48
9	c	2ad#	1	PL	13		3/8	4	2	BENT	21	1	24	48
10	c	2bh#	1	PL	16		1/4	1	0 7/8				J	
11	c	2dc#	2	PL	15		3/8	1	0 3/8				J	
12		f	1	PL	16		1/4	2	3 9/16				J	
13		SD	1	WD			3/16	0	8					
14		FW	1	WD			7/16	0	8					
15		FWL	1	WD			5/16	227	11					
16		FWS	1	WD			5/16	34	8					
17														
18														
19														
20			4	SB	7/8φ			0	2	HH-HN			~~M~~	
21			2	SB	7/8φ			0	2 1/2	HH & HN			~~M~~	
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D1 (lines 7–11)

INSTALLMENT 7E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G7-11	GIRDER-16x56 1/4x58-3	

PAY ITEM - 504.711

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Arnold Noorthy OCT 3 1969

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.

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.

MATERIAL A36 STEEL
RIVETS NONE
OPEN HOLES 15/16φ
A325 FIELD BOLTS 7/8φ
SHOP CONTACT SURFACES NO PAINT
MILLING - NONE
REAMING - AS NOTED
PAINT ONE COAT AASHO M72 TYPE II RED LEAD (UN)
WELDING - AS NOTED

NO.	DATE	INIT.
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A	10/10/69	BAL

REVISION

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

GIRDER G7-11

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

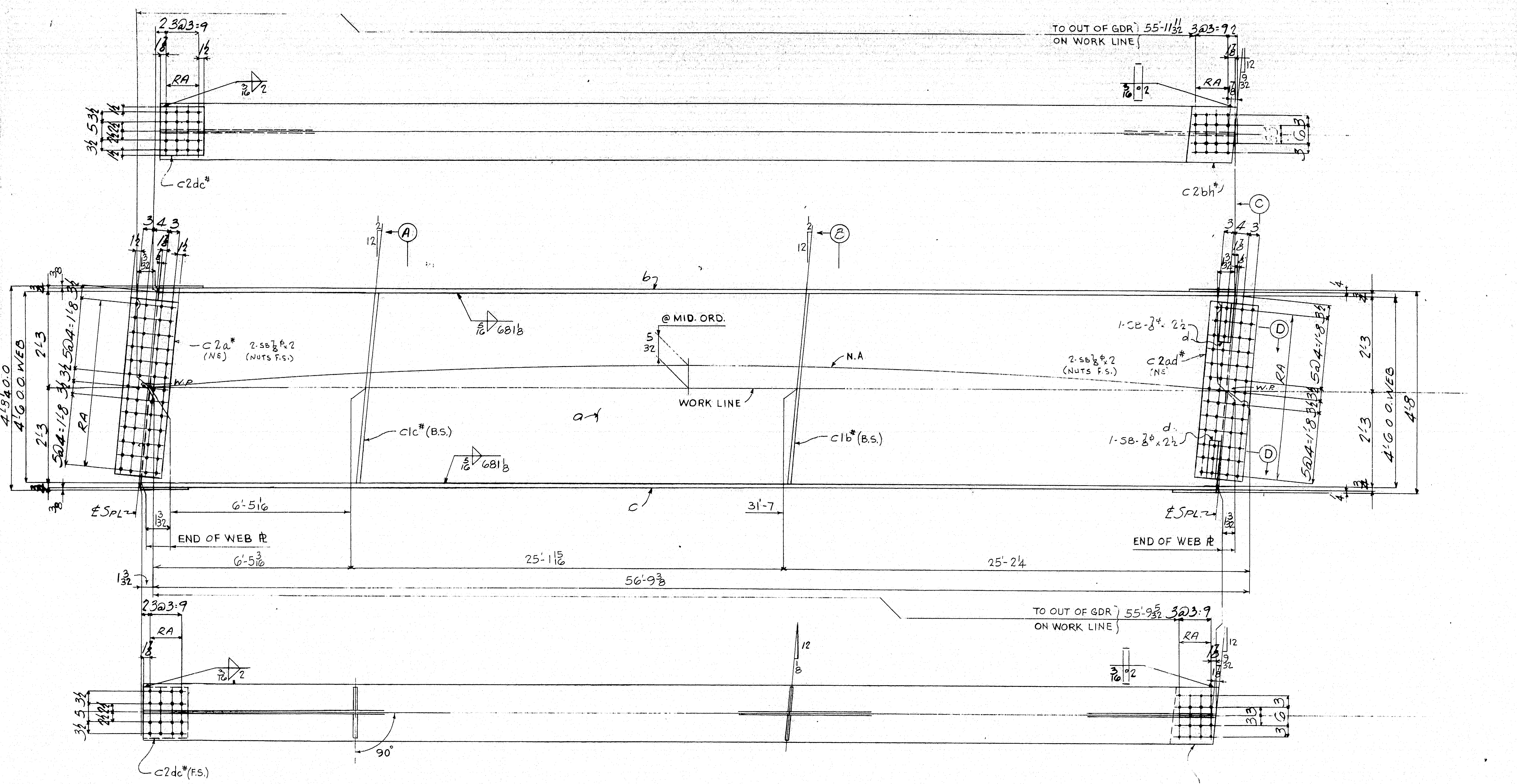
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

POTTSTOWN DRAFTING ROOM — POTTSTOWN WORKS
MADE BY B.A.L. DATE 8-11-69 IN CHARGE B.K. BERTOLET
CHECKED BY C B DATE 8-27-69 SHOP NO. 2
CONTRACT CJ6249-021 DRAWING NO. 181

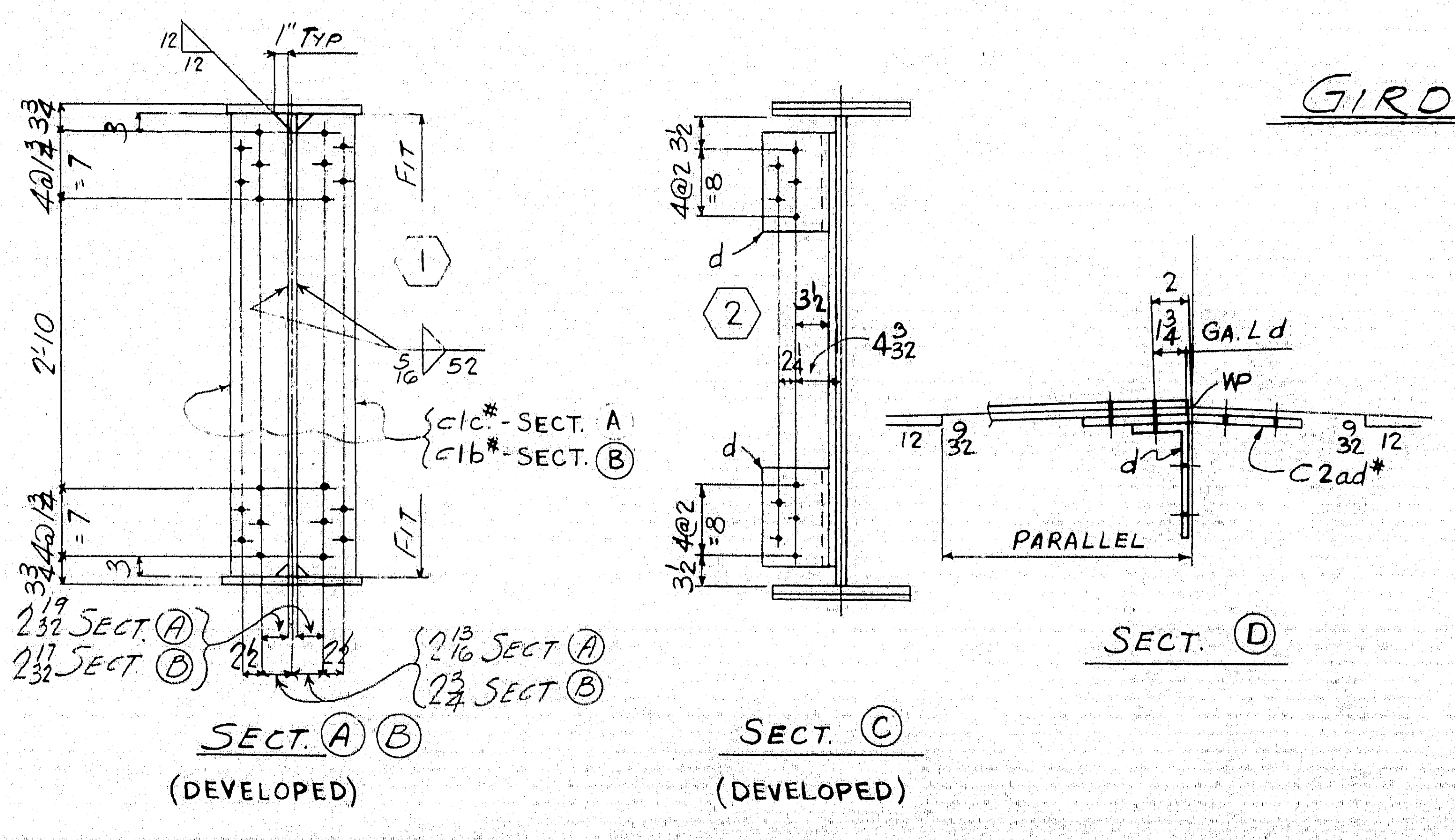
3 106'-181 GDR #11

35453 (Rev. C 4-65)

SEP 26



GIRDER G7-12



SECT. Ⓐ Ⓑ
(DEVELOPED)

SECT. Ⓒ
(DEVELOPED)

SECT. Ⓓ

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			1	GIRDER G7-12										
2														
3		a	1	PL	54		7/16	56	11 5/16	CF 56½ × 7/16	57	5½	18	18
4		b	1	PLU	16		3/4	56	9 5/16		57	1¾	22	18
5		c	1	PLU	16		3/4	56	9 5/16		57	1¾	22	18
6	C	1b#	2	BR	7		½	4	6	F2E	18	4	24	51
7	C	1c#	2	BR	7		½	4	6	F2E	18	4	24	51
8	C	2a#	1	PL	13		3/8	4	2		21	1	24	48
9	C	2ad#	1	PL	13		3/8	4	2	BENT	21	1	24	48
10	C	2bh#	2	PL	16		¼	1	0 7/8				J	
11	C	2dc#	2	PL	15		3/8	1	0 3/8				J	
12		d	2	L	7	3¼	½	0	11	CF 7X4X½ (BT.)	40	0	36	39
13		SD	1	WD			3/16	0	8					
14		FW	1	WD			3/16	0	8					
15		FWL	1	WD			5/16	227	0½					
16		FWS	1	WD			5/16	34	8					
17														
18														
19														
20			4	SB	7/8φ			0	2	HH-HN			M	
21			2	SB	7/8φ			0	2½	HH & HN			M	
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)D1

INSTALLMENT 7E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION
ONE	G7-12	GIRDER 16X56¼X58'-0 7/16

PAY ITEM - 504.711

APPROVED:-
HARD[illegible]Y & HANOVER
[illegible]ING ENGINEERS
[illegible] NEW YORK 17, N.Y
BY Arnold Noothy [illegible] 3 1969

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.

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.

MATERIAL A36 STEEL
RIVETS NONE
OPEN HOLES 15/16φ
A325 FIELD BOLTS 7/8φ
SHOP CONTACT SURFACES NO PAINT
MILLING - NONE
REAMING - AS NOTED
PAINT ONE COAT AASHO M72 TYPE II RED LEAD (UN)
WELDING - AS NOTED

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

NO	DATE	INIT.
D1	10/10/69	BAL

REVISION

GIRDER G7-12

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

BETHLEHEM STEEL CORPORATION

FABRICATED STEEL CONSTRUCTION

POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY B.A.L. DATE 8-11-69 IN CHARGE B.K. BERTOLET
CHECKED BY C.B. DATE 8-27-69 SHOP NO 2
CONTRACT CJ6249-021 DRAWING 182

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

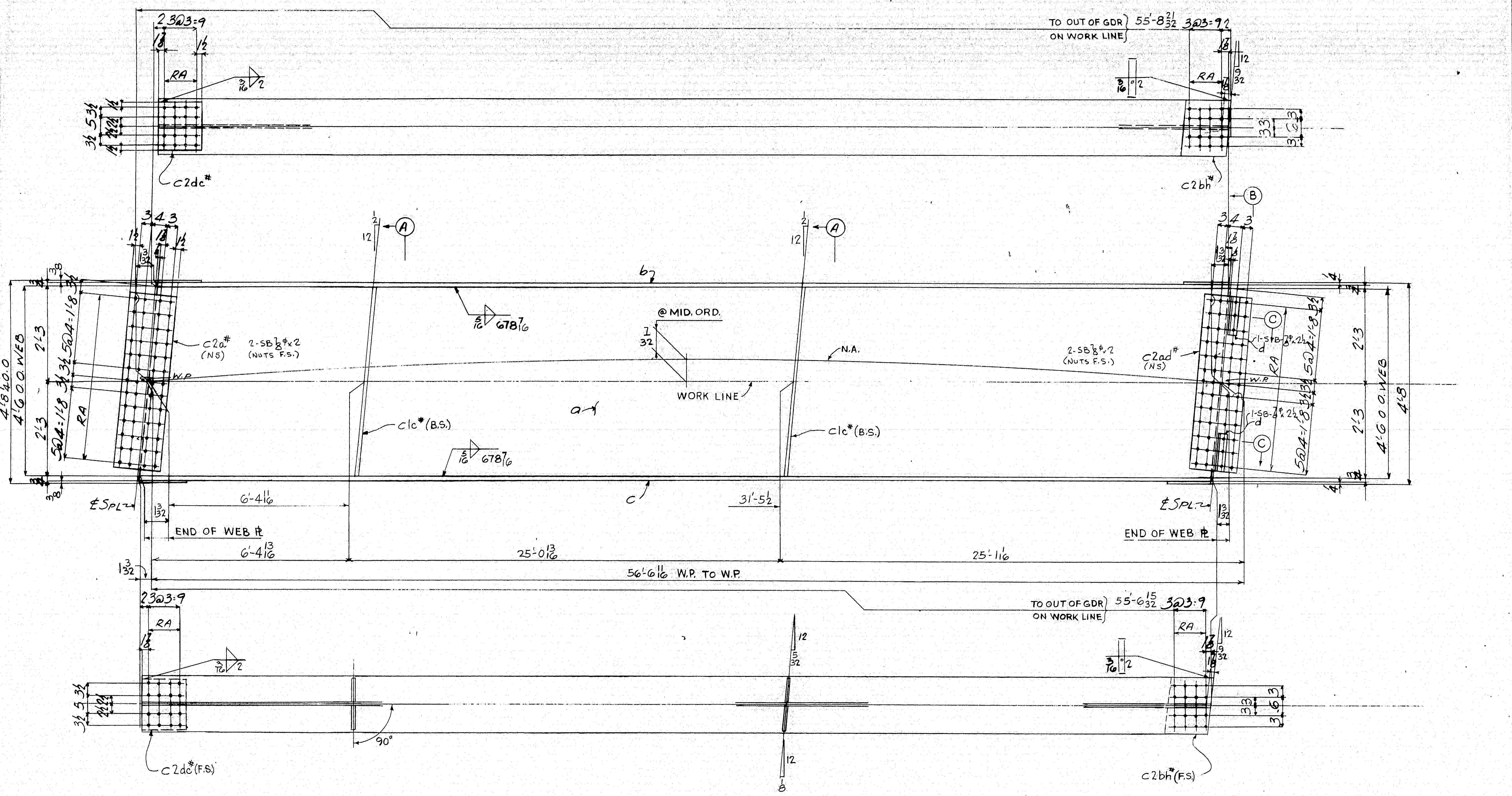
E9

35453 (Rev.C 4-65)

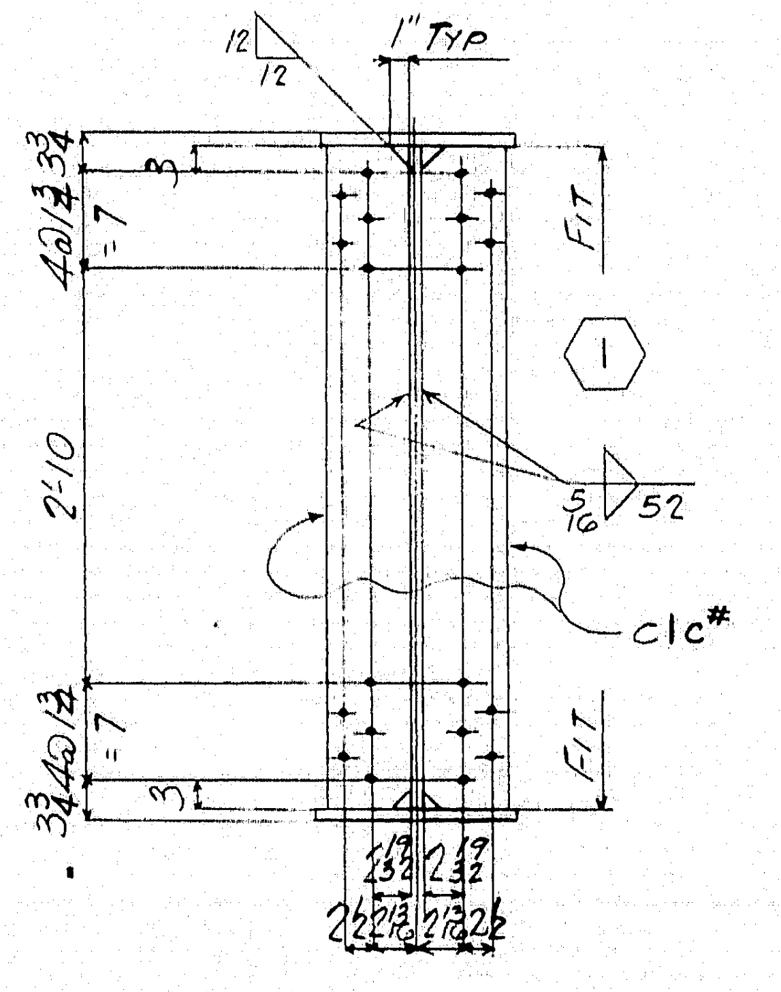
3

186' - 1/2 Gdr #12

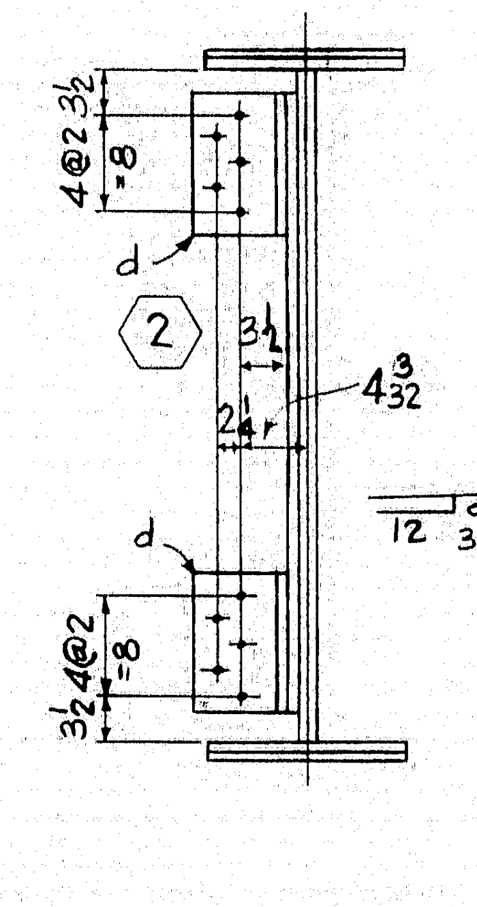
SEP 26 1969



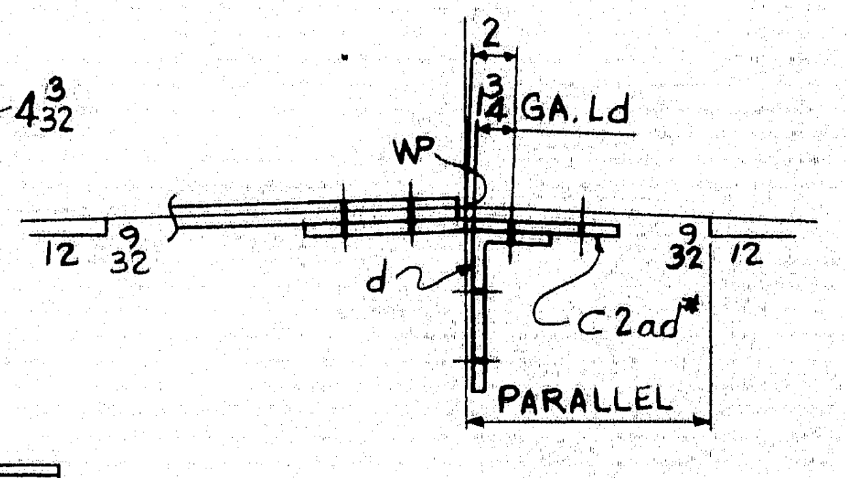
GIRDER G7-13



SECT. Ⓐ
(DEVELOPED)



SECT Ⓑ
(DEVELOPED)



SECT. Ⓒ

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			1	GIRDER G7-13										
2														
3		a	1	PL	54		7/16	56	8 5/8	CF 56 1/2 × 7/16	57	5 1/2	18	18
4		b	1	PLU	16		3/4	56	6 5/8		57	1 3/4	22	18
5		c	1	PLU	16		3/4	56	6 5/8		57	1 3/4	22	18
6	C	1c#	4	BR	7		1/2	4	6	F2E	18	4	24	51
7	C	2a#	1	PL	13		3/8	4	2		21	1	24	48
8	C	2ad#	1	PL	13		3/8	4	2	BENT	21	1	24	48
9	C	2bh#	2	PL	16		1/4	1	0 7/8				J	
10	C	2dc#	2	PL	15		3/8	1	0 3/8				J	
11		d	2	L	7	3 1/4	1/2	0	11	CF 7×4×1/2 (BT.)	40	0	36	39
12														
13		SD	1	WD			3/16	0	8					
14		FW	1	WD			7/16	0	8					
15		FWL	1	WD			5/16	226	1 3/4					
16		FWS	1	WD			5/16	34	8					
17														
18														
19														
20			4	SB	7/8φ			0	2	HH-HN			M	
21			2	SB	7/8φ			0	2 1/2	HH & HN			M	
22														
23														
24														
25														
26														
27														
28														
29														
30														
31														
32														
33														
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36														
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39														
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41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

)D1

INSTALLMENT 7E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G7-13	GIRDER 16×56 1/4×56'-9 3/4	

PAY ITEM - 504.711

APPROVED:
HARDESTY & HANOVER
CONSULTING ENGINEERS
PARK AVE. NEW YORK 17, N.Y.
Anatol Novitzky OCT 3 1969

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.

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 BR. SAW-2 FOR WELDING.

MATERIAL A36 STEEL
RIVETS NONE
OPEN HOLES 15/16φ
A325 FIELD BOLTS 7/8φ
SHOP CONTACT SURFACES NO PAINT
MILLING - NONE
REAMING - AS NOTED
PAINT ONE COAT AASHO M72 TYPE II RED LEAD (UN)
WELDING - AS NOTED

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

GIRDER G7-13

REVISION NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
D1	10/10/69	BAL

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
STRUCTURE PROJECT NO I-95-1(22)16
CONTR. NO 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY BAL DATE 8-8-69 IN CHARGE B.K. DERTOLET
CHECKED BY CB DATE 8-27-69 SHOP NO. 2
CONTRACT CJ6249-021 DRAWING NO. 183

35453 (Rev.C 4-65)

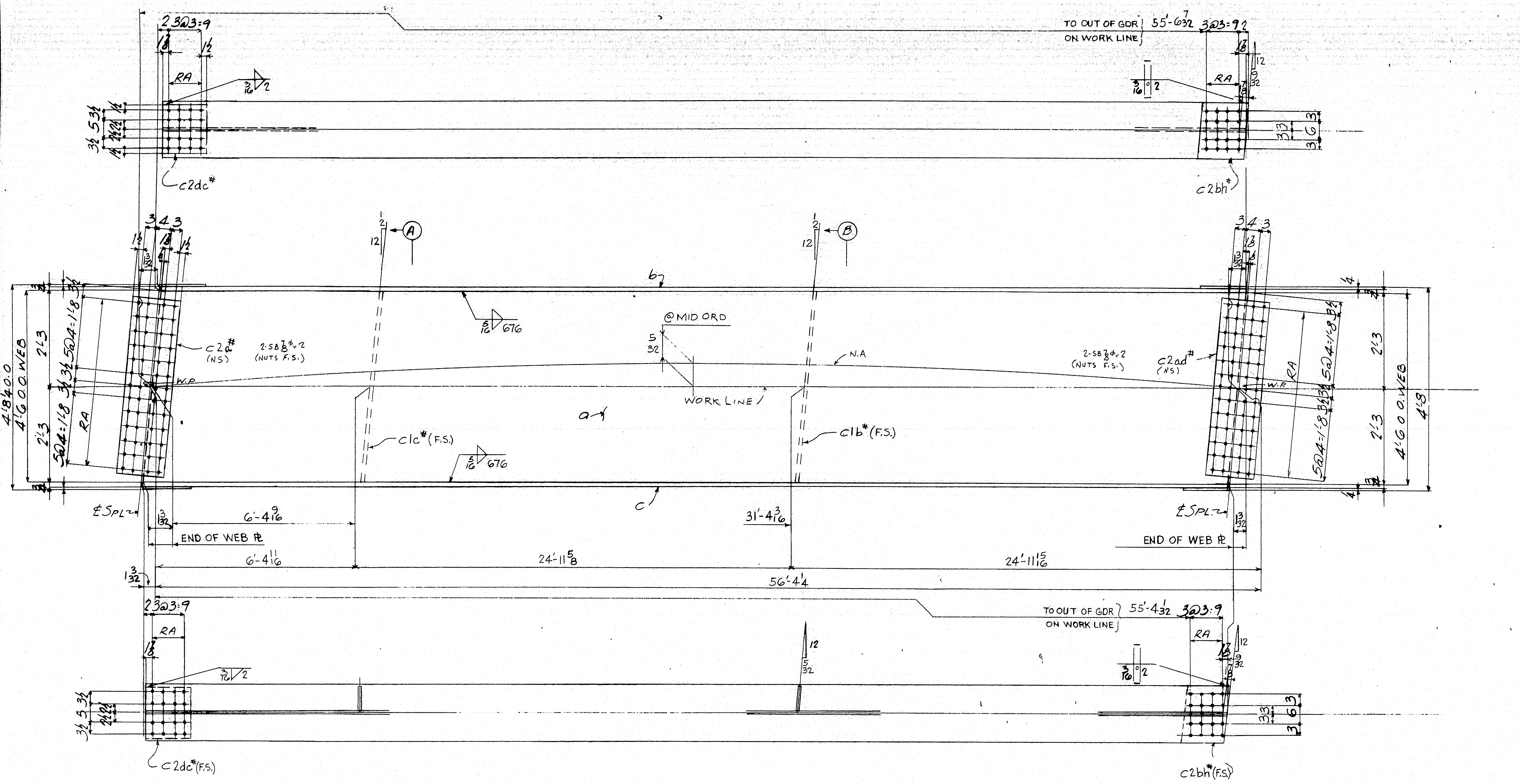
171

3 106-183 GDR #13

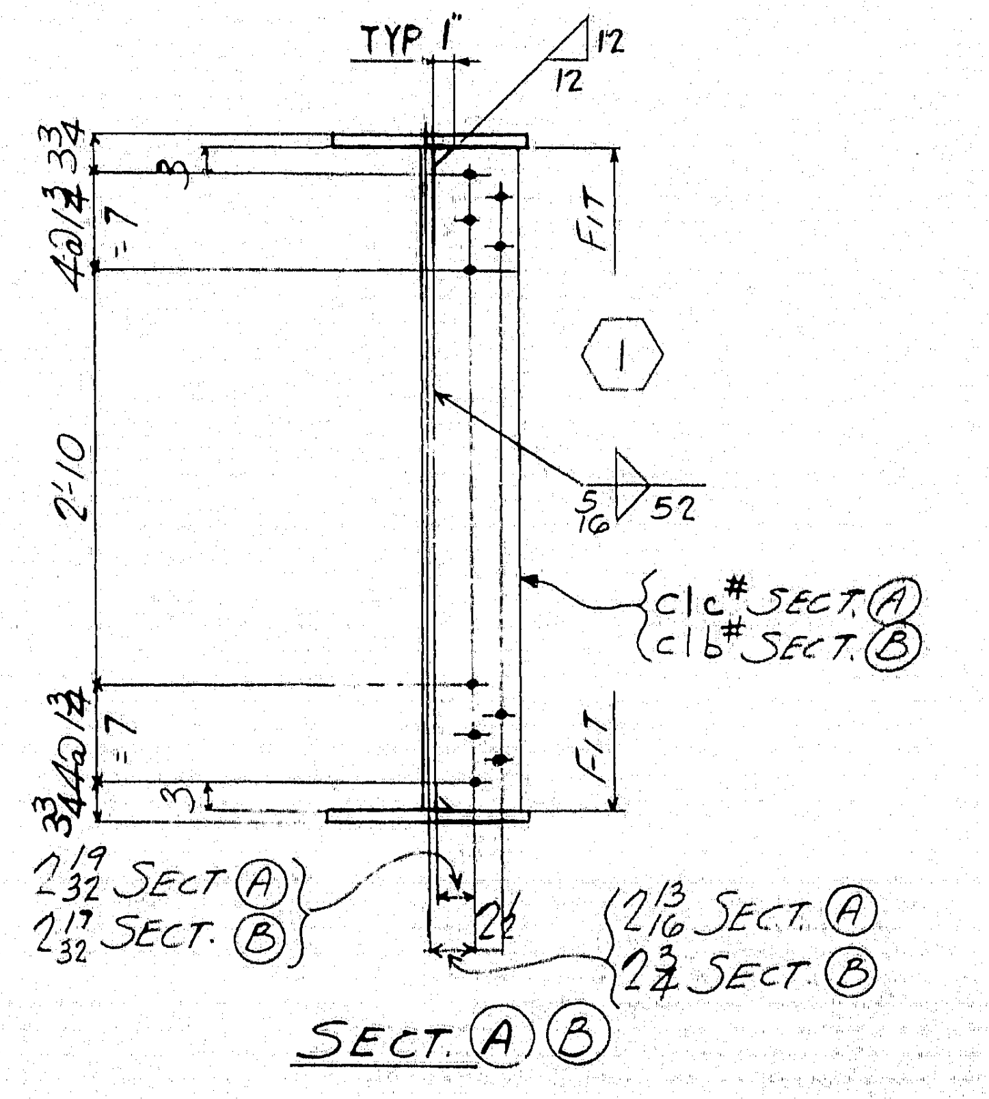
For location of details shown on this sheet refer to diagrams.

E9

0 1 2 3 4 5 INCHES



GIRDER G7-14



SECT. Ⓐ Ⓑ

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			1	GIRDER G7-14										
2														
3		a	1	PL	54		7/16	56	6 3/16	56½ × 7/16	57	5½	18	18
4		b	1	PLU	16		3/4	56	4 3/16		57	1¾	22	18
5		c	1	PLU	16		3/4	56	4 3/16		57	1¾	22	18
6	c	1b*	1	BR	7		½	4	6	F2E	18	4	24	51
7	c	1c*	1	BR	7		½	4	6	F2E	18	4	24	51
8	c	2a*	1	PL	13		3/8	4	2		21	1	24	48
9	c	2ad*	1	PL	13		3/8	4	2	BENT	21	1	24	48
10	c	2bh*	2	PL	16		¼	1	0 7/8				J	
11	c	2dc*	2	PL	15		3/8	1	0 3/8				J	
12														
13		SD	1	WD			3/16	0	8					
14		FW	1	WD			3/16	0	8					
15		FWL	1	WD			5/16	225	4					
16		FWS	1	WD			5/16	17	4					
17														
18														
19														
20			4	SB	7/8 ϕ			0	2	HH-HN				
21														
22														
23														
24														
25														
26														
27														
28														
29														
30														
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49														
50														
51														
52														
53														
54														
55														

)D1

INSTALLMENT 7E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G7·14	GIRDER 16X56¼X57-7 3/16	

PAY ITEM - 504.711

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
Arnold Novitzky OCT 3 1969

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.

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.

MATERIAL A36 STEEL
RIVETS NONE
OPEN HOLES 15/16 ϕ
A325 FIELD BOLTS 7/8 ϕ
SHOP CONTACT SURFACES NO PAINT
MILLING - NONE
REAMING - AS NOTED
PAINT ONE COAT AASHO M72 TYPE II RED LEAD (UN)
WELDING - AS NOTED

REVISION		
NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
D 1	10/10/69	BAL

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

GIRDER G7·14

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
STRUCTURE PROJECT NO I-95-1(22)16
CONTR. NO 3 · NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY BAL DATE 8-7-69 IN CHARGE B.K. BERTOLET
CHECKED BY C.B. DATE 8-27-69 SHOP NO. 2
CONTRACT CJ6249·021 DRAWING NO. 184

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

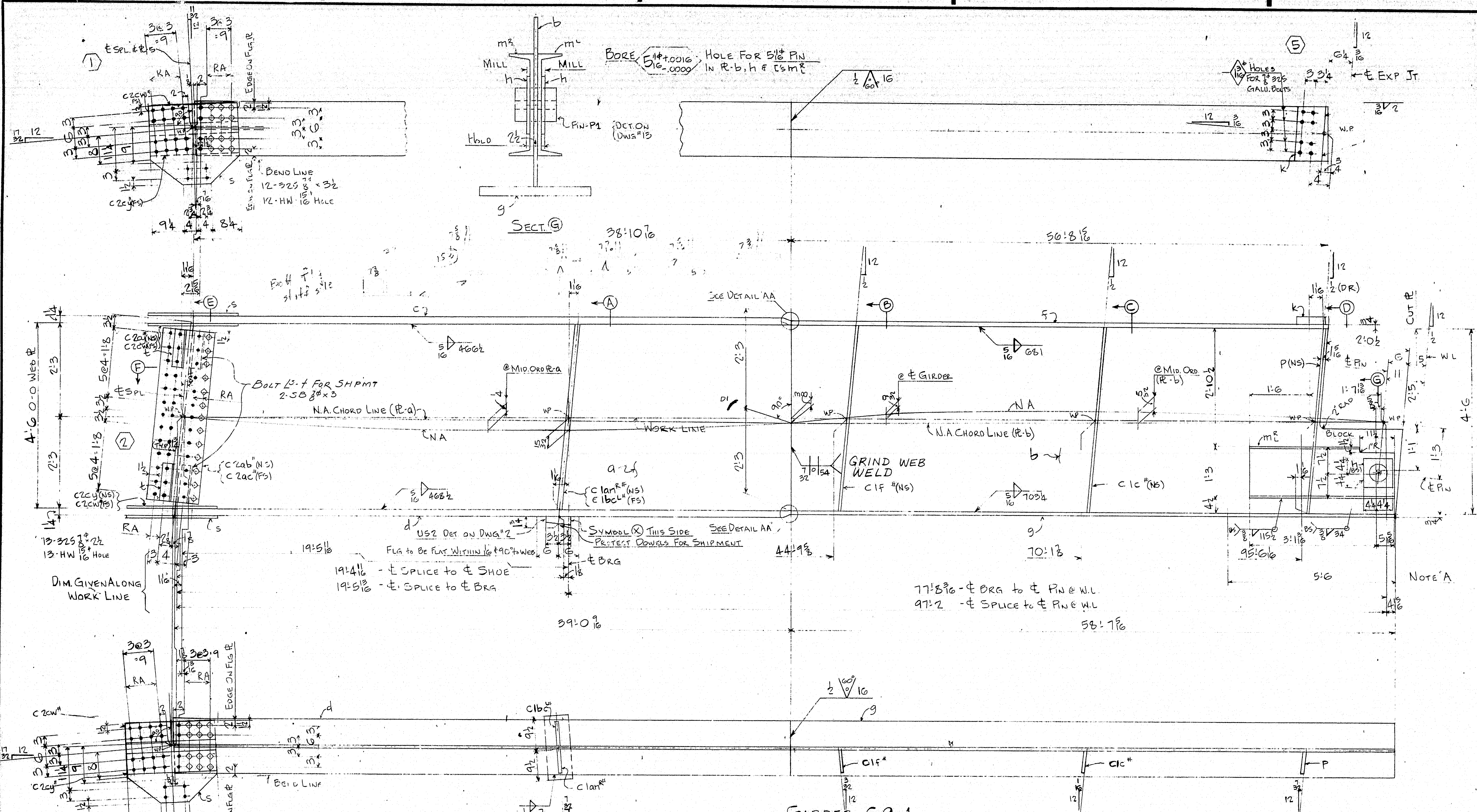
E9

3

106 - Master GDR #14

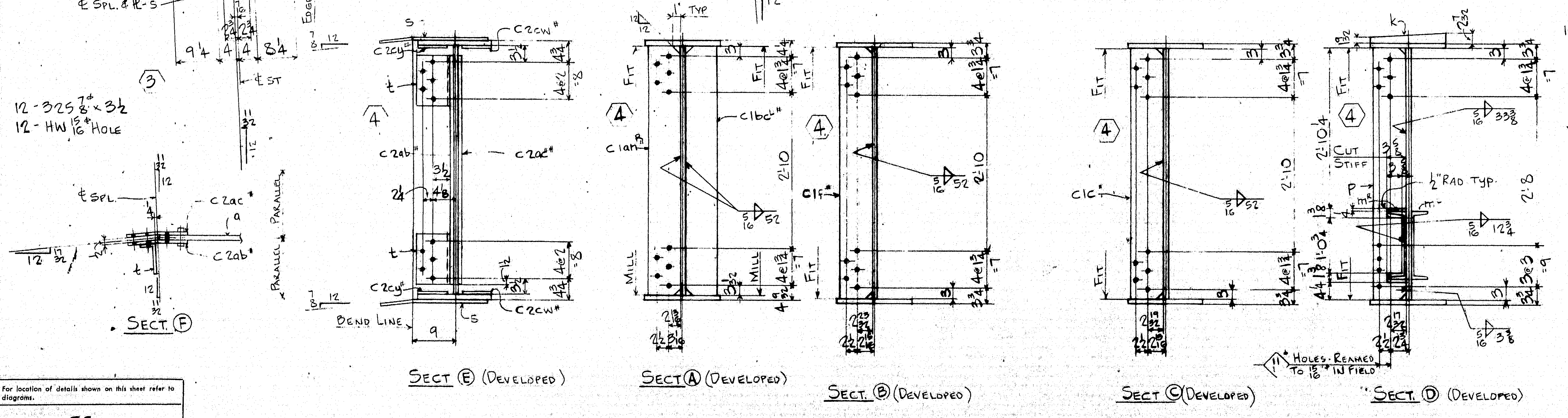
35453 (Rev.C 4-65)

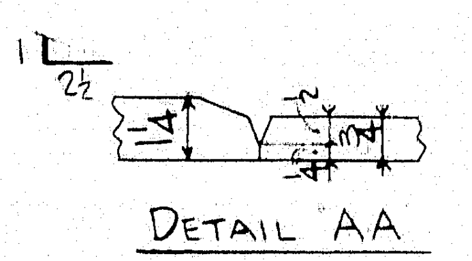
SEP 26 1969



SECT. G
BORE 5 1/16 +.0016 / .0000 HOLE FOR 5 1/2 PIN IN PL-b, h & [sm^L
PIN-P1 (DET. ON DWG #13)
Bolt L^s-t For Shipmt 2-SB 7/8 x 3
N.A. CHORD LINE (PL-a)
N.A. CHORD LINE (PL-b)
WORK LINE
GRIND WEB WELD
SEE DETAIL AA
US2 DET ON DWG #2
FLG to Be Flat Within 1/16 & 90° to Web
SYMBOL ⊗ THIS SIDE PROTECT DOWELS FOR SHIPMENT
DIM. GIVEN ALONG WORK LINE
19'-5 5/16 - ℄ SPLICE to ℄ SHOE
19'-4 1/16 - ℄ SPLICE to ℄ BRG
19'-5 15/16 - ℄ SPLICE to ℄ BRG
77'-8 9/16 - ℄ BRG to ℄ PIN & W.L.
97'-2 - ℄ SPLICE to ℄ PIN & W.L.
38'-10 9/16
56'-8 1/16
39'-0 9/16
58'-7 9/16
44'-9 3/8
70'-1 3/8
95'-6 1/16
4'-6 0-Web PL
12-325 7/8 x 3 1/2
12-HW 15/16 HOLE
13-325 7/8 x 2 1/2
13-HW 15/16 HOLE
BEND LINE
EDGE ON FLG PL
℄ EXP JT
NOTE A

GIRDER-G9-1





DETAIL AA

NOTE A: ALL STEEL SURFACES IN THIS AREA TO BE BLAST CLEANED AS PER SSPC-SP5-66. ALL STEEL WILL THEN RECEIVE ONE COAT OF ZINC RICH EPOXY INCLUDING OPEN HOLES

PAY ITEM-504711

SHOP BILL											MILL ORDER			
LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	THICK	LENGTH FT.	LENGTH IN.	REMARKS	LENGTH FT.	LENGTH IN.	ITEM PAGE	ITEM LINE
1		ONE-GIRDER-G9-1:												
2		a	1	PL	54		1/2	39	0 9/16	56×1/2	39	6 1/2	2	74
3		b	1	PL	54		7/16	58	8 3/8	(ADT) 56 1/2×7/16	59	7 1/4	2	71
4		c	1	PLU	16		1 1/4	38	10 5/8	16×1 1/4	39	1 3/4	3	79
5		d	1	PLU	16		1 1/4	39	0 3/4	" "	39	1 3/4	3	79
6		f	1	PLU	16		3/4	56	8 15/16	16×3/4	57	01	4	74
7		g	1	PLU	16		3/4	58	7 5/16	" "	59	04	4	71
8	C	2ab#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
9	C	2cy#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
10	C	2cw#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
11	C	1an^R#	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE	18	4	24	49
12	C	1bc^L#	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE	18	4	24	49
13	C	1f#	1	BR	7		1/2	4	6	F2E	18	4	24	51
14	C	1c#	1	BR	7		1/2	4	6	F2E	18	4	24	51
15		p	1	BR	7		1/2	4	6	F2E	18	4	24	51
16		h	2	PL	8 1/2		1/2	0	8 1/2	MIS 8 1/2×3/4			J	
17		k	1	PL	8	(2 7/32×1 3/32)	1	4 1/8		BEV. CF 3/4×2 3/8			J	
18		US2	1	UPPER SHOE						DET. ON DWG #2				
19		P1	1		PIN					DET ON DWG #13				
20		m^R_L	1/1	C	15	40		3	6 1/2		44	8	24	42
21		s	2	PL	25 1/2		1/2	1	11 1/4	BENT	22	4	24	45
22		t	2	L	7	3 1/4	1/2	0	11	BENT CF 7×4×1/2	40	0	36	39
23	C	2ac#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
24		FW.	1	WO			3/8	24	11					
25		FWL	1	WO			5/16	386	6 1/2					
26		FWS	1	WO			5/16	42	11					
27		FW	1	WO			1/2	1	2					
28		SDS	1	WO			7/16	4	6					
29		VGOS	1	WO			3/4	2	8					
30		FW	1	WO			3/16	0	4					
31														
32														
33			24	325	7/8φ			0	3 1/2	H-H-H-H-H-N				
34			13	325	7/8φ			0	2 1/2	H-H-H-H-H-N				
35			37	HW	1 3/4	15/16	3/16						M	
36			2	SB	7/8φ			0	3					
37														
38														
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.
Arnold Naughty OCT 3 1969

INST-9W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G9-1	GIRDER (60×25 1/4×98'-9 1/2)	

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.

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 UP 3 (UN)

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

USE E7016, 18, 28 LOW HYDROGEN ELECTRODES OR GR. SAW-1 FOR WELDING.

MATERIAL - A36 STEEL
▬ BOLTS - 7/8φ
OPEN HOLES - 15/16φ (U.N.)
A325 FIELD BOLTS 7/8φ
SHOP CONTACT SURFACES NO PAINT (U.N.)
WELD - AS NOTED
MILL - 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	Not	Sent

REVISION

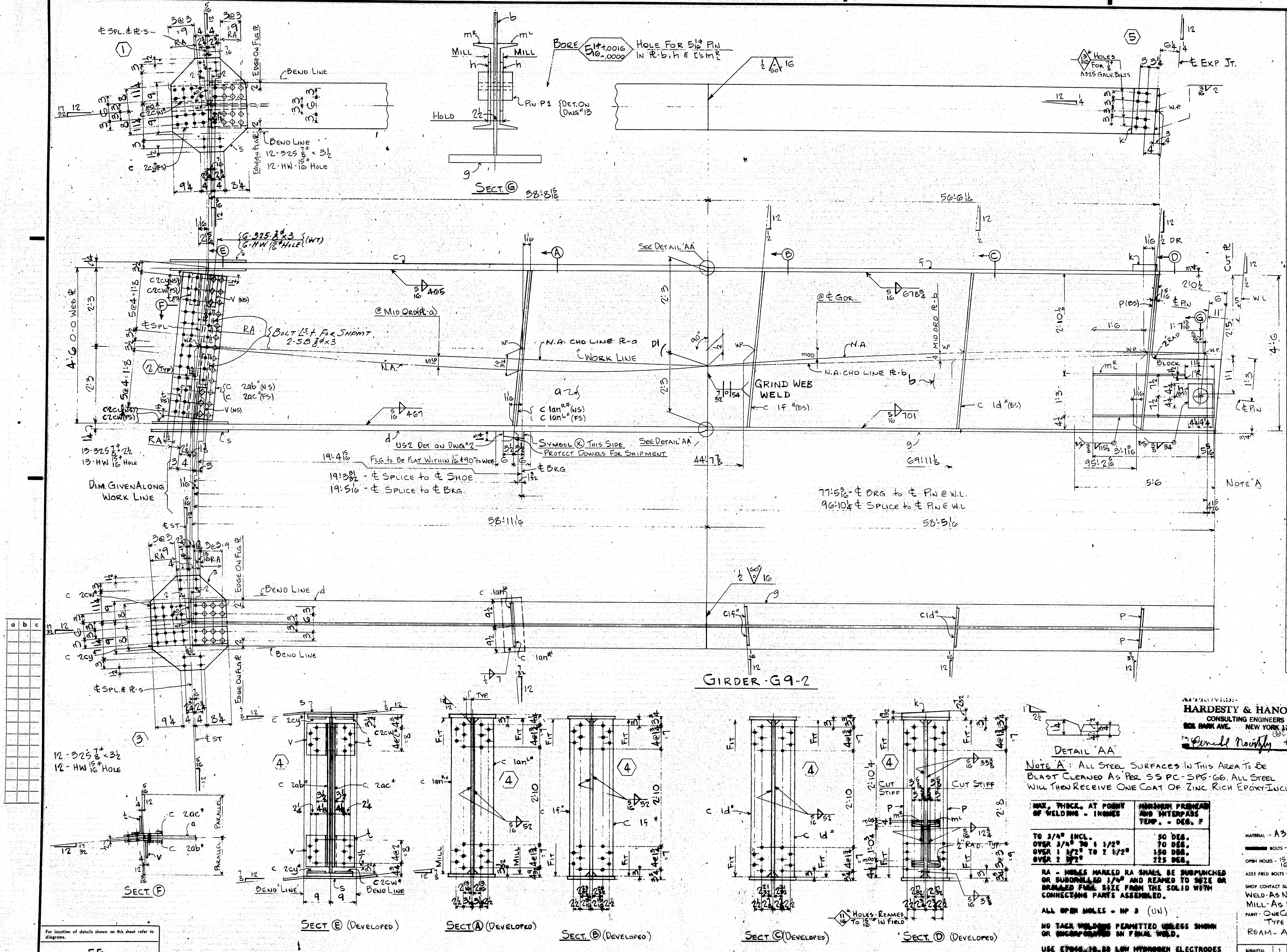
GIRDER

CUSTOMER
MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT NO I95-1(22)16
CONT. NO. 3 - NEW HAMPSHIRE APP
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY DML DATE 8-12-69 IN CHARGE B.K. BERTOLET
CHECKED BY KJ DATE 8/5/69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 185

35453 (Rev. C 4-65)

For location of details shown on this sheet refer to diagrams.
E5

∡ 2°-13'-30" - TAN A = 8.98943/06 - 185



LINE		ASSEMBLY MARK	NO.	SHAPE	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 - G9-2												
2		a	1	PL	54		1/2	38	1 1/16	56 × 1/2	39	6 1/2	2	74
3		b	1	PL	54		7/16	58	6 1/16	56 1/2 × 7/16	59	7 1/4	2	71
4		c	1	PLU	16		1 1/4	38	9 1/8	16 × 1 1/4	39	1 3/4	3	79
5		d	1	PLU	16		1 1/4	38	11 1/4	" "	39	1 3/4	3	79
6		f	1	PLU	16		3/4	56	6 11/16	16 × 3/4	57	01	4	74
7		g	1	PLU	16		3/4	58	5 1/16	" "	59	04	4	71
8	C	2ab*	1	PLU	13		3/8	4	2	BENT	21	1	24	48
9	C	2cy*	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
10	C	2cw*	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
11	C	1an R*	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE	18	4	24	49
12	C	1an L*	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE	18	4	24	49
13	C	1d*	2	BR	7		1/2	4	6	F2E	18	4	24	51
14	C	1f*	2	BR	7		1/2	4	6	F2E	18	4	24	51
15		p	2	BR	7		1/2	4	6	F2E	18	4	24	51
16		h	2	PL	8 1/2		1/2	0	8 1/2	MIS 8 1/2 × 3/4			J	
17		k	1	PL	8	(2 7/32 × 1 9/32)		1	4 1/8	BEV. CF 34 × 2 3/8			J	
18		US2	1	UPPER SHOE						DET. ON DWG #2				
19		P1	1		PIN					DET. ON DWG #13				
20		m R L	1 / 1	C	15	40		3	6 1/2		44	8	24	42
21		s	2	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
22		t	2	L	7	3 1/4	1/2	0	11	BENT CF 7X4X1/2	40	0	36	39
23	C	2ac*	1	PLU	13		3/8	4	2	BENT	21	1	24	48
24		FW	1	WD			3/8	24	11					
25		FWL	1	WD			5/16	385	3 1/2					
26		FWS	1	WD			5/16	68	6					
27		FW	1	WD			1/2	1	2					
28		SDS	1	WD			7/16	4	6					
29		VGOS	1	WD			3/4	2	8					
30		FW	1	WD			3/16	0	4					
31														
32		v	2	L	7	3 1/4	1/2	0	11	BENT CF 7X4X1/2	40	0	36	39
33			24	325	7/8 ø			0	3 1/2	H.H.H - H.H.N				
34			13	325	7/8 ø			0	2 1/2	H.H.H - H.H.N				
35			43	HW	1 3/4	15/16	3/16						M	
36			6	325	7/8 ø			0	3	H.H.H - H.H.N				
37			2	SB	7/8 ø			0	3					

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
Donald Novitzky OCT 3 1969

NOTE "A": ALL STEEL SURFACES IN THIS AREA TO BE BLAST CLEANED AS PER SSPC-SP5-66. ALL STEEL WILL THEN RECEIVE ONE COAT OF ZINC RICH EPOXY-INCLUDING OPEN HOLES

PAY ITEM-504711

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.

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 (UN)

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

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

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

INST-9W

REQUIRED LIST			
QTY.	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G9-2	GIRDER (60×31 1/2×98'-6)	

GIRDER

NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1	Not Sent	

REVISION

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

CUSTOMER
MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT NO I95-1(22) 16
CONT. NO. 3 - NEW HAMPSHIRE APP
STRUCTURAL STEEL

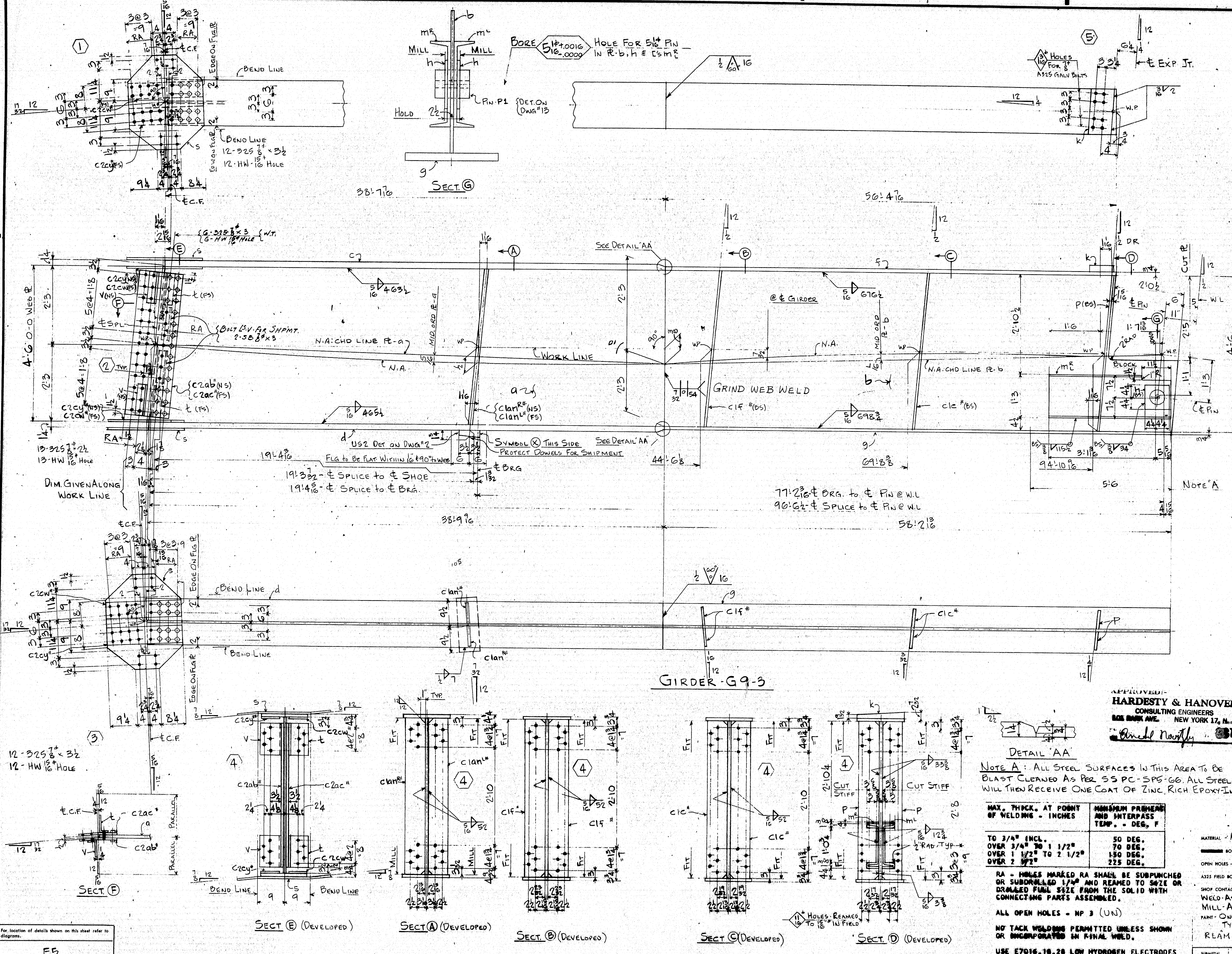
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY DML DATE 8-13-69 IN CHARGE B.K. BERTOLET
CHECKED BY RJ DATE 8-5-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 186

For location of details shown on this sheet refer to diagrams.
E5

∗ 2°-14'-04" - TAN A = 8.69127

106-186



DETAIL "AA"

NOTE A: ALL STEEL SURFACES IN THIS AREA TO BE BLAST CLEANED AS PER SSPC-SP5-66. ALL STEEL WILL THEN RECEIVE ONE COAT OF ZINC RICH EPOXY-INCLUDING OPEN HOLES

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-G9-3												
2		a	1	PL	54		1/2	38	9 9/16	56 × 1/2	39	6 1/2	2	74
3		b	1	PL	54		7/16	58	3 13/16	56 1/2 × 7/16	58	10	2	72
4		c	1	PLU	16		1 1/4	38	7 5/8	16 × 1 1/4	39	1 3/4	3	79
5		d	1	PLU	16		1 1/4	38	9 3/4	" "	39	1 3/4	3	79
6		f	1	PLU	16		3/4	56	4 7/16	16 × 3/4	57	01	4	74
7		g	1	PLU	16		3/4	58	2 13/16	" "	58	6 1/2	4	72
8	C	2ab#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
9	C	2cy#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
10	C	2cw#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
11	C	1anL#	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE	18	4	24	49
12	C	1anR#	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE	18	4	24	49
13	C	1c#	2	BR	7		1/2	4	6	F2E	18	4	24	51
14	C	1f#	2	BR	7		1/2	4	6	F2E	18	4	24	51
15		p	2	BR	7		1/2	4	6	F2E	18	4	24	51
16		h	2	PL	8 1/2		1/2	0	8 1/2	MIS 8 1/2 × 3/4			J	
17		k	1	PL	8	(2 7/32 × 1 9/32)		1	4 1/8	BEV. CF34 × 2 3/8			J	
18		US2	1	UPPER SHOE						DET. ON DWG #2				
19		P1	1		PIN					DET. ON DWG #13				
20		mRL	1/1	C	15	40		3	6 1/2		44	8	24	42
21		s	2	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
22		t	2	L	7	3 1/4	1/2	0	11	BENT CF7×4×1/2	40	0	36	39
23	C	2ac#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
24		FW	1	WD			3/8	24	11					
25		FWL	1	WD			5/16	384	0 1/2					
26		FWS	1	WD			5/16	68	6					
27		FW	1	WD			1/2	1	2					
28		SDS	1	WD			7/16	4	6					
29		VGOS	1	WD			3/4	2	8					
30		FW	1	WD			3/16	0	4					
31														
32		v	2	L	7	3 1/4	1/2	0	11	BENT CF7×4×1/2	40	0	36	39
33														
34			24	325	7/8Φ			0	3 1/2	H·H·H—H·H·N				
35			13	325	7/8Φ			0	2 1/2	H·H·H—H·H·N				
36			43	HW	1 3/4	15/16	3/16						M	
37			6	325	7/8Φ			0	3	H.H.H.-H H N				
38			2	SB	7/8Φ			0	3					
39														
40														
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55														

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
Arnold Nowitzky OCT 3 1969

INST-9W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G9-3	GIRDER (60×31 1/2×98'-2)	

PAY ITEM-504711

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.

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 (UN)

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

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

MATERIAL - A36 STEEL
BOLTS - 7/8Φ
OPEN HOLES - 15/16Φ (U.N.)
A325 FIELD BOLTS 7/8Φ
SHOP CONTACT SURFACES NO PAINT (UN)
WELD - AS NOTED
MILL - 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		
01	Not Sent	

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

GIRDER

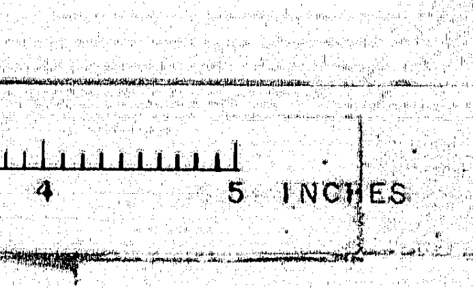
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT NO I95-1(22)16
CONT. NO. 3 - NEW HAMPSHIRE APP
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY DML DATE 8-14-69 IN CHARGE B.K. BERTOLET
CHECKED BY RJ DATE 8/5/69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 187

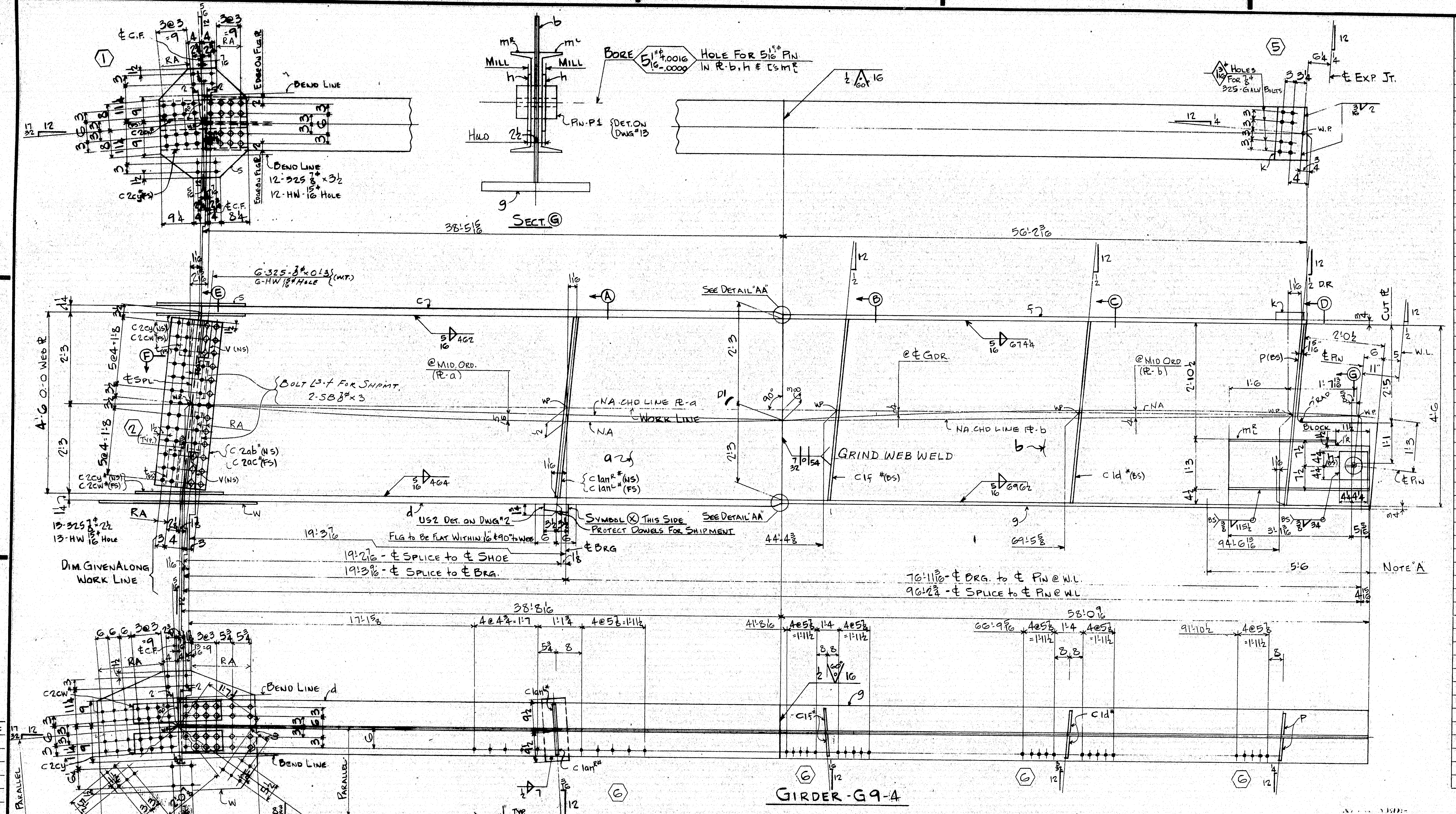
For location of details shown on this sheet refer to diagrams.
E5

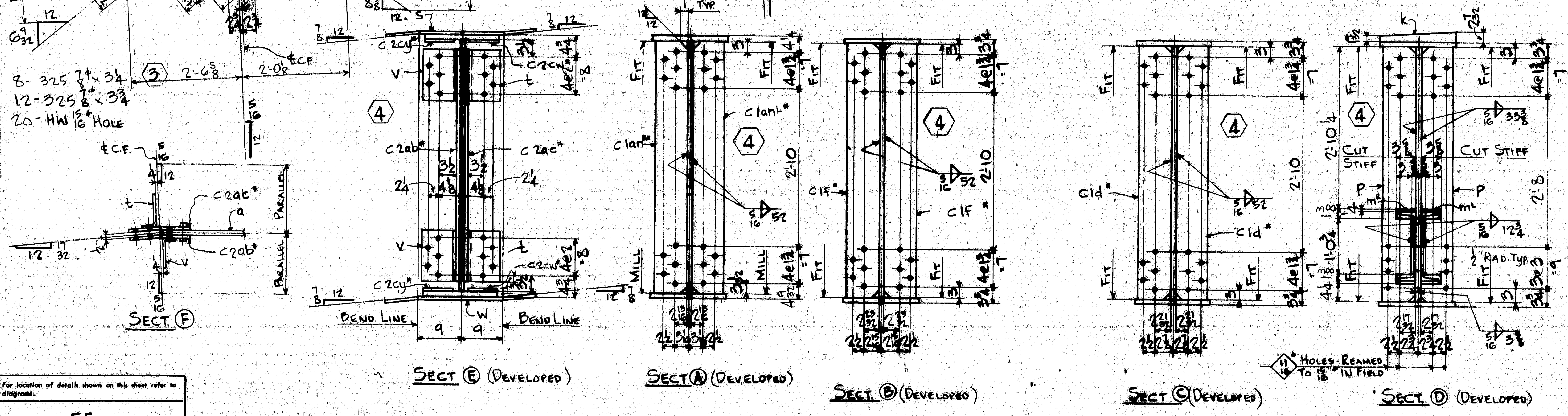
* 7°-14'-38" — Tan Δ - .59210

106-187

35453 (Rev.C 4-65)

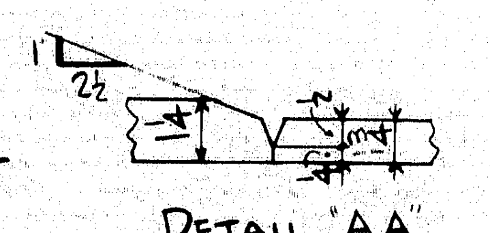






For location of details shown on this sheet refer to diagrams.

E5



DETAIL "AA"

NOTE "A": ALL STEEL SURFACES IN THIS AREA TO BE BLAST CLEANED AS PER SSPC-SP5-66. ALL STEEL WILL THEN RECEIVE ONE COAT OF ZINC RICH EPOXY, INCLUDING OPEN HOLES

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.

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 (UN)

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

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

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

APPROVED:
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
Arnold Novitsky OCT 3 1969

INST-9W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G9-4	GIRDER (60¼×34½×99'-3)	

PAY ITEM - 504711

GIRDER

SHOP BILL											MILL ORDER			
LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION			LENGTH		REMARKS	LENGTH		ITEM	
					SIZE	SIZE OR POUNDS	THICK	FT.	IN.		FT.	IN.	PAGE	LINE
1		ONE-GIRDER-G9-4												
2		a	1	PL	54		½	38	8 1/16	56×½	39	6½	2	74
3		b	1	PL	54		7/16	58	1 9/16	56½×7/16	58	10	2	72
4		c	1	PLU	16		1¼	38	6 1/8	16×1¼	39	1¾	3	79
5		d	1	PLU	16		1¼	38	8¼	" "	39	1¾	3	79
6		f	1	PLU	16		¾	56	2 3/16	16×¾	57	0 1	4	74
7		g	1	PLU	16		¾	58	0 9/16	" "	58	6½	4	72
8	C	2ab*	1	PLU	13		3/8	4	2	BENT	21	1	24	48
9	C	2cy*	2	BR	6½		½	2	1½		19	0	24	50
10	C	2cw*	2	BR	6½		½	2	1½		19	0	24	50
11	C	1anR*	1	BR	7½		¾	4	6 3/32	MIE-FIE	18	4	24	49
12	C	1anL*	1	BR	7½		¾	4	6 3/32	MIE-FIE	18	4	24	49
13	C	1d*	2	BR	7		½	4	6	F2E	18	4	24	51
14	C	1f*	2	BR	7		½	4	6	F2E	18	4	24	51
15		p	2	BR	7		½	4	6	F2E	18	4	24	51
16		h	2	PL	8½		½	0	8½	MIS 8½×¾			J	
17		k	1	PL	8	(2 7/32×1½)		1	4 1/8	BEV. CF34×2 3/8			J	
18		US2	1	UPPER SHOE						DET. ON DWG #2				
19		P1	1		PIN					DET. ON DWG #13				
20		mR L	1 / 1	C	15	40		3	6½		44	8	24	42
21		s	1	PL	25½		½	2	7½	BENT	22	4	24	45
22		t	2	L	7	3¼	½	0	11	BENT CF7×4×½	40	0	36	39
23	C	2ac*	1	PLU	13		3/8	4	2	BENT	21	1	24	48
24		FW	1	WO			3/8	24	11					
25		FWL	1	WO			5/16	382	9½					
26		FWS	1	WO			5/16	68	6					
27		FW	1	WO			½	1	2					
28		SDS	1	WO			7/16	4	6					
29		V605	1	WO			¾	2	8					
30		FW	1	WO			3/16	0	4					
31														
32		w	1	PL	34¾		5/8	4	6¾	BENT			J	
33		v	2	L	7	3¼	½	0	11	BENT CF7×4×½	40	0	36	39
34			13	325	7/8φ			0	2½	H·H·H-H·H·N				
35			12	325	7/8φ			0	3½	H·H·H-H·H·N				
36			8	325	7/8φ			0	3¼	H·H·H & H·H·N			M	
37			17	325	7/8φ			0	3¾	H·H·H & H·H·N				
38			51	HW	1¾	15/16	3/16							
39			6	325	7/8φ			0	3	HHH-HHN				
40			2	SB	7/8φ			0	3					
41														
42														
43														
44														
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REVISION		
NO.	DATE	INIT.
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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 DML DATE 8-14-69 IN CHARGE B.K. BERTOLET
CHECKED BY RJ DATE 8/5/69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 188

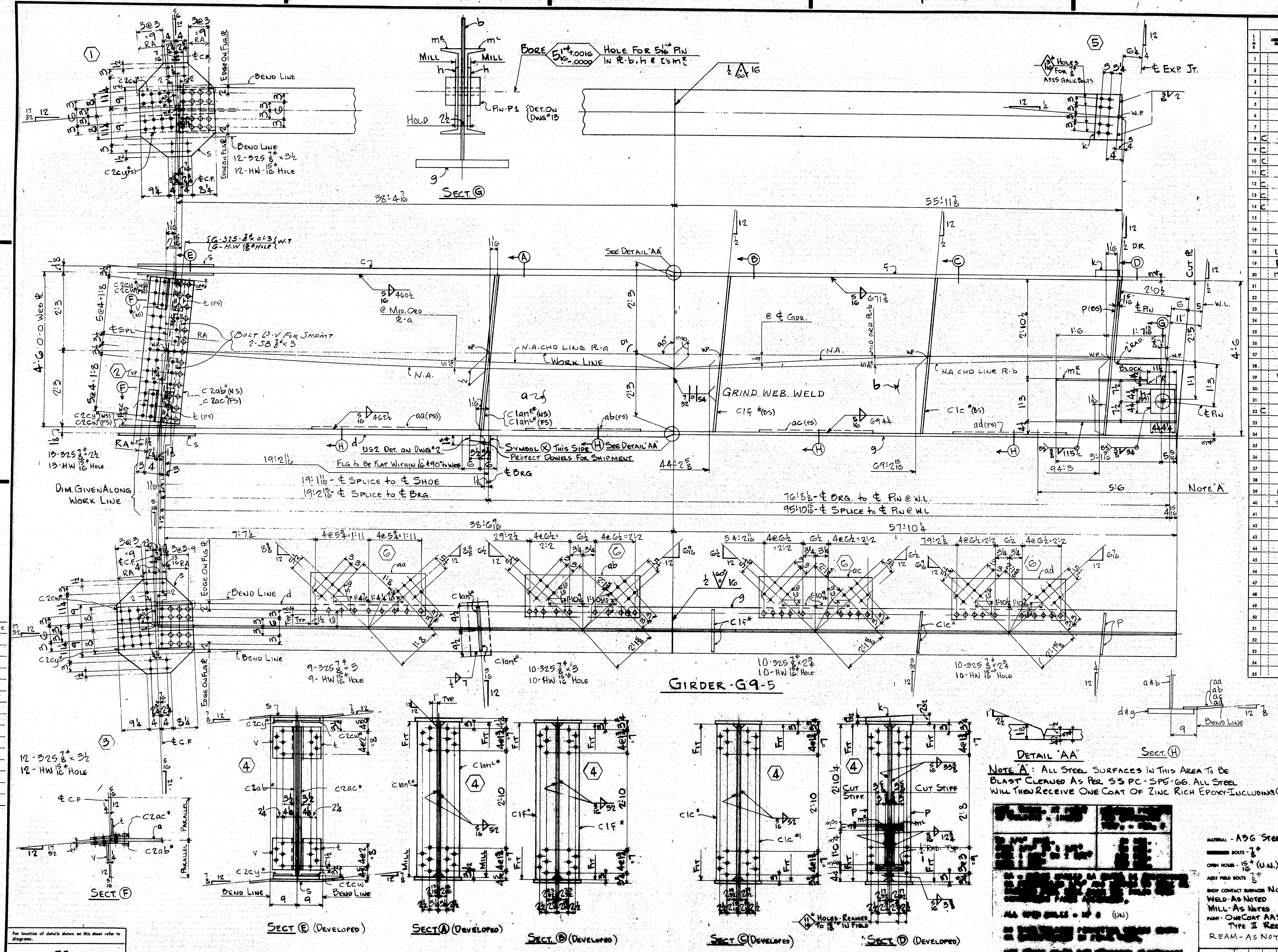
∡ 2°-15'-12" - TAN A = 8.59493

106-188

35453 (Rev. C 4-65)

1 OCT 7 1969

0 1 2 3 4 5 INCHES



Note "A": All Steel Surfaces In This Area To Be Blast Cleaned As Per SSPC-SP5-66. All Steel Will Then Receive One Coat Of Zinc Rich Epoxy-Including Open Holes

Pay Item-504711.

Line	Assembly Mark		No.	Shape	Section Size		Thick	Length Ft.	Length In.	Remarks		Ft.	In.		
1		One-Girder-G9-5													
2		a	1	PL	54		½	38	6 9/16		56×½	39	6½	2	74
3		b	1	PL	54		7/16	57	11¼		56½×	58	10	2	72
4		c	1	PLU	16		1⅛	38	4⅝		16×1⅛	38	7¾	3	80
5		d	1	PLU	16		1⅛	38	6¾		" "	38	7¾	3	80
6		f	1	PLU	16		¾	55	11⅞		16×¾	56	02	4	75
7		g	1	PLU	16		¾	57	10¼		" "	58	6½	4	72
8	C	2ab*	1	PLU	13		⅜	4	2	Bent		21	1	24	48
9	C	2cy*	2	BR	6½		½	2	1½			19	0	24	50
10	C	2cw*	2	BR	6½		½	2	1½			19	0	24	50
11	C	1anR*	1	BR	7½		¾	4	6½	MIE-FIE		18	4	24	49
12	C	1anL*	1	BR	7½		¾	4	6½	MIE-FIE		18	4	24	49
13	C	1c*	2	BR	7		½	4	6	F2E		18	4	24	51
14	C	1f*	2	BR	7		½	4	6	F2E		18	4	24	51
15		p	2	BR	7		½	4	6	F2E		18	4	24	51
16		h	2	PL	8½		½	0	8½	MIS	8½×¾			J	
17		k	1	PL	8		(2 7/32×1 9/32)	1	4⅛	Bev.	CF34×2⅜			J	
18		US2	1	Upper Shoe						Det. on Dwg #2					
19		P1	1	Pin						Det. on Dwg #13					
20		m R/L	1/1	C	15	40		3	6½			44	8	24	42
21		s	2	PL	25½		½	2	7½	Bent		22	4	24	45
22		t	2	L	7	3¼	½	0	11	Bent	CF7×4×½	40	0	36	39
23		v	2	L	7	3¼	½	0	11	Bent	" "	40	0	36	39
24		FW	1	WO			⅜	24	11						
25		FWL	1	WO			5/16	381	6¼						
26		FWS	1	WO			5/16	68	6						
27		FW	1	WO			½	1	2						
28		SDS	1	WO			7/16	4	6						
29		VGOS	1	WO			¾	2	8						
30		FW	1	WD			5/16	0	4						
31															
32	C	2ac*	1	PLU	13		⅜	4	2	Bent		21	1	24	48
33			20	325	⅞			0	2¾	H·H·H-H·H·N					
34			26	325	⅞			0	3	H·H·H-H·H·N					
35			24	325	⅞			0	3½	H·H·H-H·H·N				M	
36			13	325	⅞			0	2½	H·H·H-H·H·N					
37			83	HW	1¾	15/16	3/16								
38			2	SB	⅞			0	3						
39		aa	1	PL	14½		⅝	4	1	Bent		26	0	28	19
40		ab	1	PL	14½		⅝	5	1½	Bent		26	0	28	19
41		ac	1	PL	14½		⅝	5	1½	Bent		26	0	28	19
42		ad	1	PL	14½		⅝	5	1½	Bent		26	0	28	19
43															
44															
45															
46															
47															
48															
49															
50															
51															
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53															
54															
55															

HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.

Inst-9W

Required List			
Qty	Shipping Mark	Description	Remarks
One	G9-5	Girder (60¼-34¾×97'-6½)	

[illegible]

Material - A36 Steel
Bolts - ⅞
Open Holes - 15/16 (U.N.)
A325 Field Bolts ⅞
Shop Contact Surfaces No Paint (UN)
Weld - As Noted
Mill - As Noted
Paint - One Coat AASHO-M72-Type II Red Lead (UN)
Ream - As Noted

No.	Date	By
0		
9		
8		
7		
6		
5		
4		
3		
2		
01	Not	Sent

Revision

Submittal	1	2	3	4	5	6	7	8	9	0
Date										

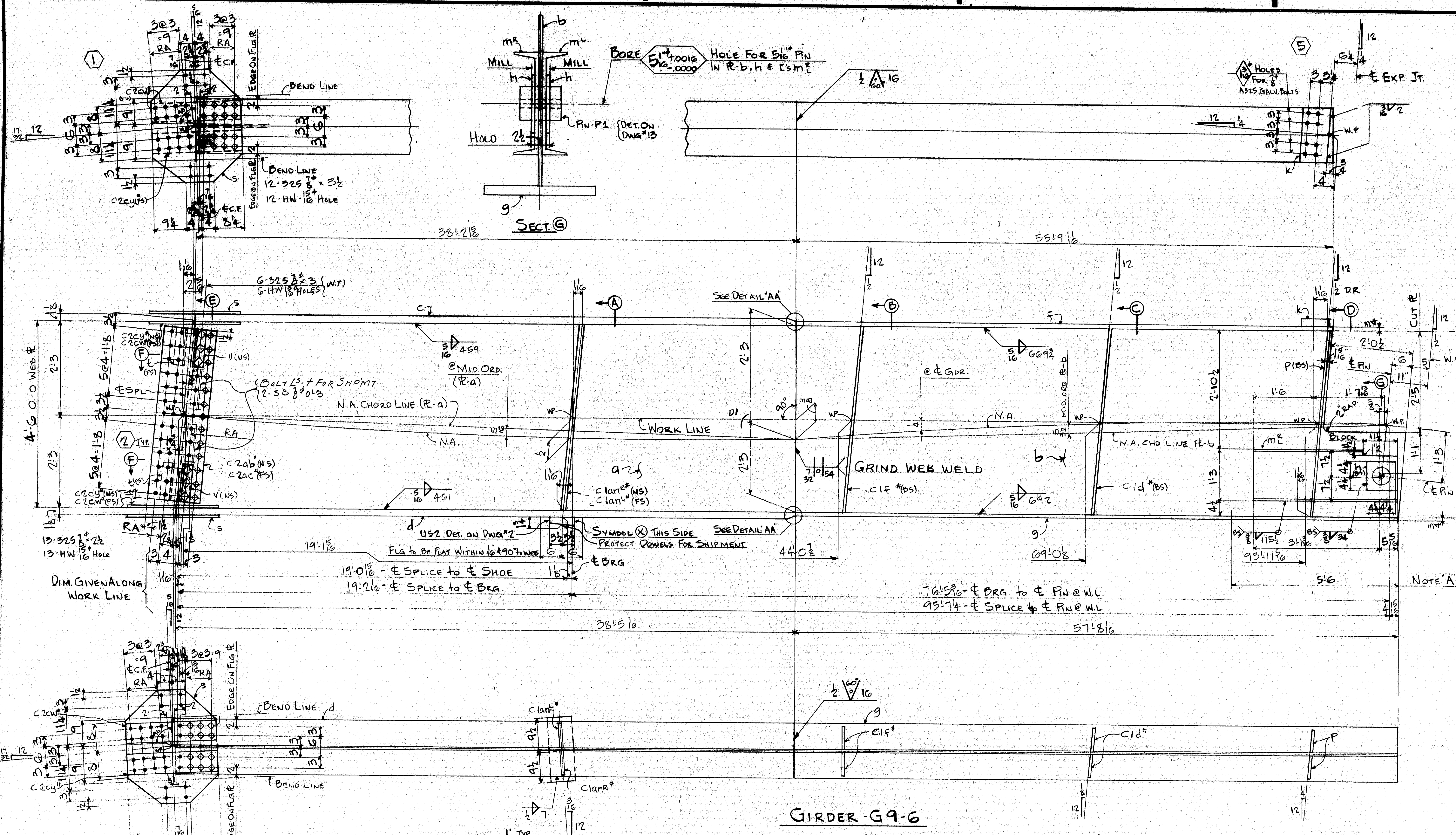
Girder
Maine State Highway Commission
Piscataqua River Bridge
Project No I-95-1(22) 16
Cont. No. 3 - New Hampshire App
Structural Steel
BETHLEHEM STEEL CORPORATION
Fabricated Steel Construction
Pottstown Drafting Room Pottstown
Made by DML Date 8-18-69 In charge BK
Checked by RJ Date 8/5/69 Sheet No. 2
Contract CJ-6889-290 Drawing No. 139

℄ 2°15'46" - Tan A : 8.59674

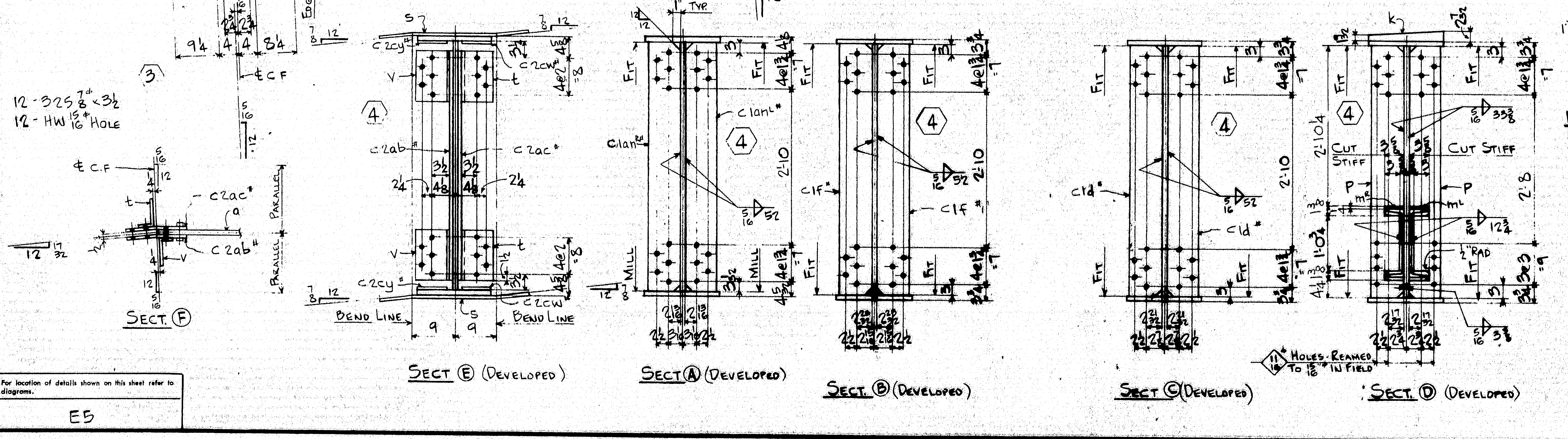
106-139

a	b	c

For location of details shown on this sheet refer to diagrams.
E5



GIRDER - G9-6



DETAIL "AA"

NOTE "A": ALL STEEL SURFACES IN THIS AREA TO BE BLAST CLEANED AS PER SSPC-SP5-66, ALL STEEL WILL THEN RECEIVE ONE COAT OF ZINC RICH EPOXY-INCLUDING OPEN HOLES

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
Arnold Novitzky OCT 3 1969

MIN. 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. [illegible] DEG. 150 DEG. 225 DEG.

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.

ALL OPEN HOLES - NP 3 (UN)

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

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

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

PAY ITEM - 504711

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 - G9-6												
2		a	1	PL	54		1/2	38	5 1/16	56 × 1/2	39	6 1/2	2	74
3		b	1	PL	54		7/16	57	9 1/16	56 1/2 × 7/16	58	10	2	72
4		c	1	PLU	16		1 1/8	38	3 1/8	16 × 1 1/8	38	7 3/4	3	80
5		d	1	PLU	16		1 1/8	38	5 1/4	" "	38	7 3/4	3	80
6		f	1	PLU	16		3/4	55	9 11/16	16 × 3/4	56	02	4	75
7		g	1	PLU	16		3/4	57	8 1/16	" "	58	6 1/2	4	72
8	C	2ab#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
9	C	2cy#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
10	C	2cw#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
11	C	1anR#	1	BR	7 1/2		3/4	4	6 1/32	MIE-FIE	18	4	24	49
12	C	1anL#	1	BR	7 1/2		3/4	4	6 1/32	MIE-FIE	18	4	24	49
13	C	1d#	2	BR	7		1/2	4	6	F2E	18	4	24	51
14	C	1f#	2	BR	7		1/2	4	6	F2E	18	4	24	51
15		p	2	BR	7		1/2	4	6	F2E	18	4	24	51
16		h	2	PL	8 1/2		1/2	0	8 1/2	MIS 8 1/2 × 3/4			J	
17		k	1	PL	8	(2 7/32 × 1 9/32)		1	4 1/8	BEV. CF34 × 2 3/8			J	
18		US2	1	UPPER SHOE						DET. ON DWG #2				
19		P1	1		PIN					DET. ON DWG #13				
20		mR/L	1/1	C	15	40		3	6 1/2		44	8	24	42
21		s	2	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
22		t	2	L	7	3 1/4	1/2	0	11	BENT CF7×4×1/2	40	0	36	39
23		v	2	L	7	3 1/4	1/2	0	11	BENT " "	40	0	36	39
24		FW	1	WD			3/8	24	11					
25		FWL	1	WD			5/16	380	3 1/2					
26		FWS	1	WD			5/16	68	6					
27		FW	1	WD			1/2	1	2					
28		SDS	1	WD			7/16	4	6					
29		VGOS	1	WD			3/4	2	8					
30		FW	1	WD			3/16	0	4					
31														
32	C	2ac#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
33														
34														
35			24	325	7/8⌀			0	3 1/2	H·H·H–H·H·N				
36			13	325	7/8⌀			0	2 1/2	H·H·H–H·H·N				
37			43	HW	1 3/4	15/16	3/16						M	
38			6	325	7/8⌀			0	3	H·H·H·–H·H·N.				
39			2	SB	7/8⌀			0	3					
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

INST-9W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G9-6	GIRDER (59 3/4 × 31 1/2 × 97'-3)	

GIRDER

NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
01	Not Sent	

REVISION

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

CUSTOMER
MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT NO I95-1(22) 16
CONT. NO. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY DML DATE 8-14-69 IN CHARGE B.K. BERTOLET
CHECKED BY RJ DATE 8/15/69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 190

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

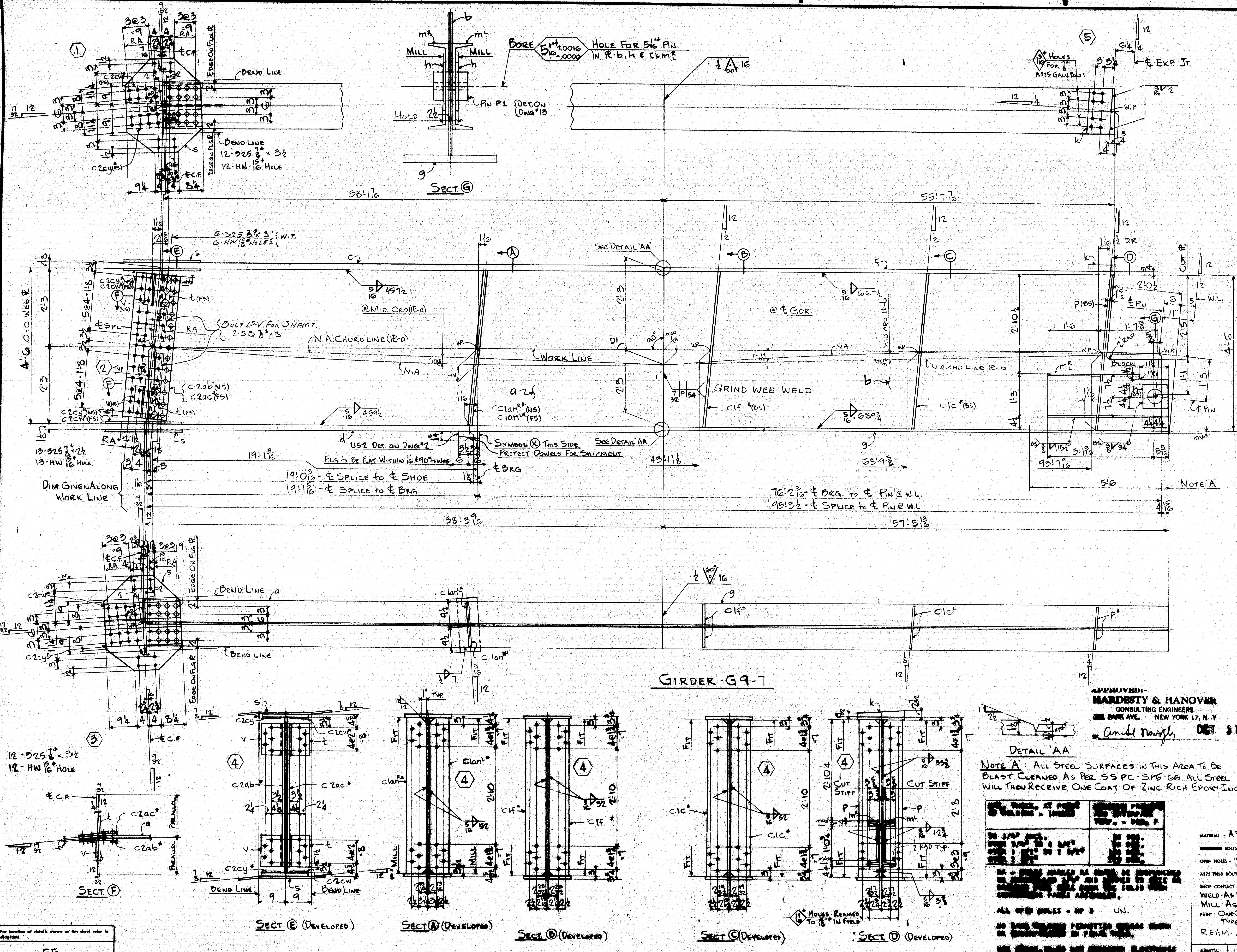
E5

* 9'-16-71" — Tail A = 859861

106-190

35453 (Rev.C 4-63)

INCHES 1 2 3 4 5



APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
[illegible] PARK AVE. NEW YORK 17, N.Y.
BY Arnold Novitzky OCT 3 1969

Note "A": All Steel Surfaces In This Area To Be Blast Cleaned As Per SSPC-SP5-66. All Steel Will Then Receive One Coat Of Zinc Rich Epoxy-Including Open Holes

Pay Item· 504711

[illegible]

ALL OPEN HOLES - [illegible] UN.

[illegible]

Material - A36 Steel
Bolts - ⅞⌀
Open Holes - 15/16⌀ (U.N.)
A325 Field Bolts ⅞⌀
Shop Contact Surfaces No Paint U.N.
Weld - As Noted
Mill - As Noted
Paint - One Coat AASHO·M72 Type II Red Lead (UN)
Ream - As Noted

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 - G9-7												
2		a	1	PL	54		½	38	3 9/16	56 × ½	39	6½	2	74
3		b	1	PL	54		7/16	57	6 13/16	56½ × 7/16	58	10	2	72
4		c	1	PLU	16		1⅛	38	1⅝	16 × 1⅛	38	7¾	3	80
5		d	1	PLU	16		1⅛	38	3¾	" "	38	7¾	3	80
6		f	1	PLU	16		¾	55	7 7/16	16 × ¾	56	02	4	75
7		g	1	PLU	16		¾	57	5 13/16	" "	57	9¾	4	73
8	C	2ab*	1	PLU	13		⅜	4	2	Bent	21	1	24	48
9	C	2cy*	2	BR	6½		½	2	1½		19	0	24	50
10	C	2cw*	2	BR	6½		½	2	1½		19	0	24	50
11	C	1anR*	1	BR	7½		¾	4	6 1/32	MIE-FIE	18	4	24	49
12	C	1anL*	1	BR	7½		¾	4	6 1/32	MIE-FIE	18	4	24	49
13	C	1f*	2	BR	7		½	4	6	F2E	18	4	24	51
14	C	1c*	2	BR	7		½	4	6	F2E	18	4	24	51
15		p	2	BR	7		½	4	6	F2E	18	4	24	51
16		h	2	PL	8½		½	0	8½	MIS 8½ × ¾			J	
17		k	1	PL	8	(2 3/[illegible] × 1 9/32)		1	4⅛	Bev. CF34 × 2⅜			J	
18		US2	1	Upper Shoe						Det. on Dwg #2				
19		P1	1		Pin					Det. on Dwg #13				
20		mR/L	1/1	C	15	40		3	6½		44	8	24	42
21		s	2	PL	25½		½	2	7½	Bent	22	4	24	45
22		t	2	L	7	3¼	½	0	11	Bent CF7×4×½	40	0	36	39
23		v	2	L	7	3¼	½	0	11	Bent " "	40	0	36	39
24		FW	1	WD			⅜	24	11					
25		FWL	1	WD			5/16	379	0½					
26		FWS	1	WD			5/16	68	6					
27		FW	1	WD			½	1	2					
28		SDS	1	WD			7/16	4	6					
29		VGOS	1	WD			¾	2	8					
30		FW	1	WD			3/16	0	4					
31														
32	C	2ac*	1	PLU	13		⅜	4	2	Bent	21	1	24	48
33														
34														
35			24	325	⅞⌀			0	3½	H·H·H - H·H·N				
36			13	325	⅞⌀			0	2½	H·H·H - H·H·N				
37			43	HW	1¾	15/16	3/16						M	
38			6	325	8⌀			0	3	HHH¢HHN				
39			2	SB	8⌀			0	3					
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

Inst-9W

Required List

Qty	Shipping Mark	Description	Remarks
One	G9-7	Girder (59¾ × 31½ × 96'·11)	

Girder

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 I95-1(22) 16
Cont. No. 3 - New Hampshire App
Structural Steel

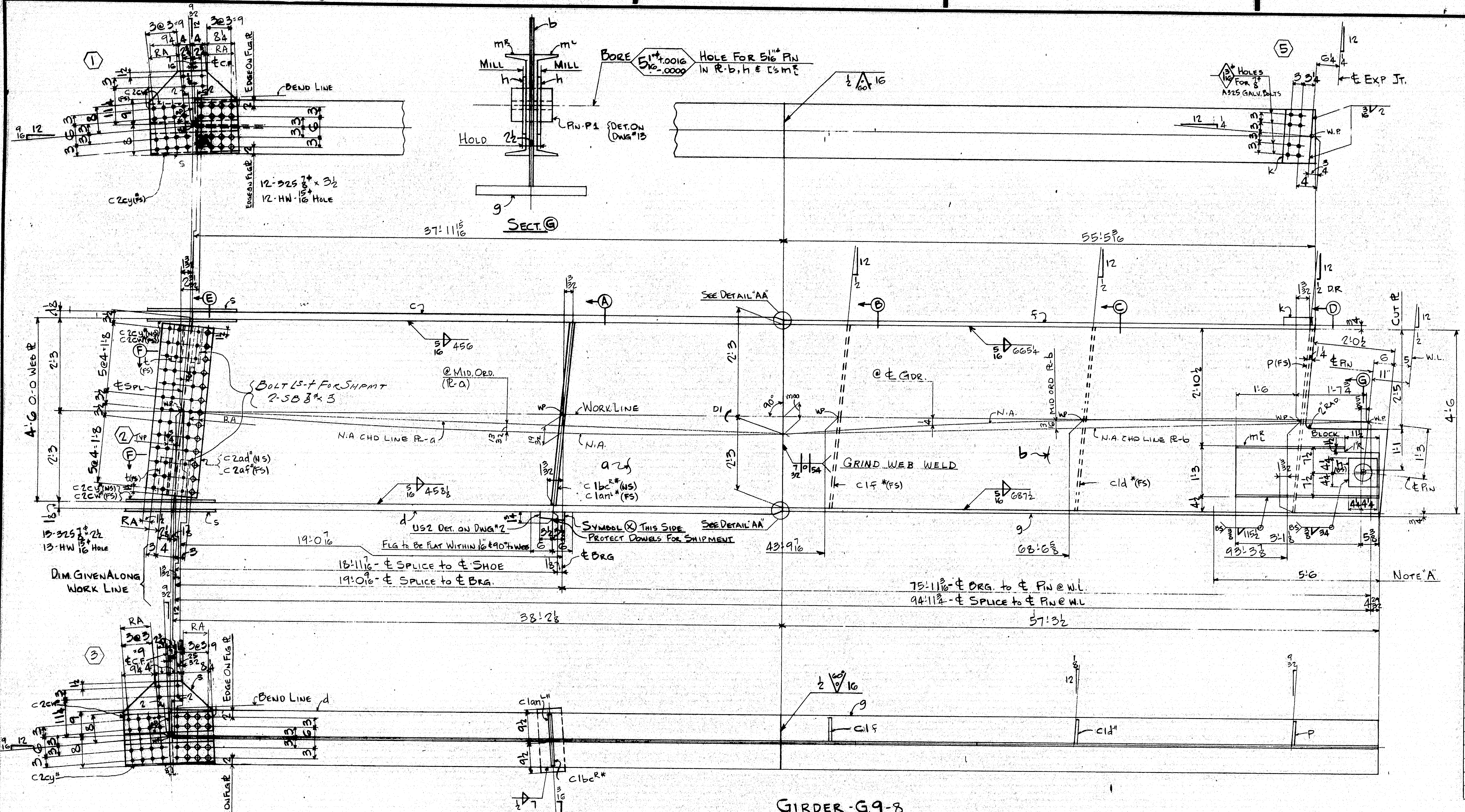
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

Pottstown Drafting Room Pottstown Works
Made by DML Date 8-15-69 In Charge B.K. Bertolet
Checked by RJ Date 8/5/69 Shop No. 2
Contract CJ-6249-020 Drawing No. 191

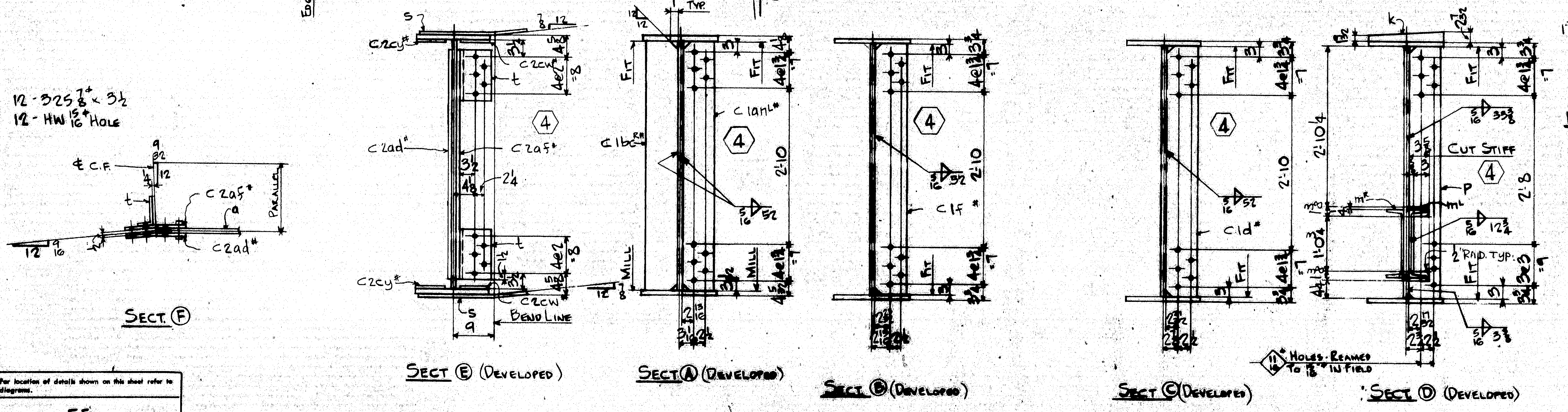
33453 (Rev. C 6-65)

∡ 2°·16'·56" - Tan A = 8.60047

106 - 191

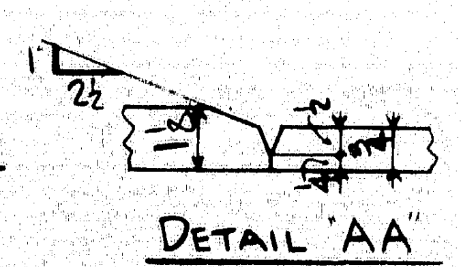


GIRDER-G9-8



E5

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



DETAIL "AA"

NOTE "A": ALL STEEL SURFACES IN THIS AREA TO BE BLAST CLEANED AS PER SSPC-SP5-66. ALL STEEL WILL THEN RECEIVE ONE COAT OF ZINC RICH EPOXY-INCLUDING OPEN HOLES

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
[illegible] NEW YORK 17, N.Y.
Arnold Novitzky OCT 8 1969

[illegible] THICK. AT POINT OF WELDING - INCHES	[illegible]
TO 3/4" INCL. [illegible]	[illegible]

[illegible]

ALL OPEN HOLES - [illegible] (UN)

[illegible]

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

PAY ITEM-504711

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-G9-8												
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	4 9/16	56 1/2 × 7/16	57	10 3/4	2	73
4		c	1	PLU	16		1 1/8	38	0 1/8	16 × 1 1/8	38	7 3/4	3	80
5		d	1	PLU	16		1 1/8	38	2 5/16	" "	38	7 3/4	3	80
6		f	1	PLU	16		3/4	55	5 9/16	16 × 3/4	56	02	4	75
7		g	1	PLU	16		3/4	57	3 1/2	" "	57	9 3/4	4	73
8	C	2ad*	1	PLU	13		3/8	4	2	BENT	21	1	24	48
9	C	2cy*	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
10	C	2cw*	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
11	C	1an^{L*}	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE	18	4	24	49
12	C	1bc^{R*}	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE	18	4	24	49
13	C	1d*	1	BR	7		1/2	4	6	F2E	18	4	24	51
14	C	1f*	1	BR	7		1/2	4	6	F2E	18	4	24	51
15		P	1	BR	7		1/2	4	6	F2E	18	4	24	51
16		h	2	PL	8 1/2		1/2	0	8 1/2	MIS 8 1/2 × 3/4			J	
17		k	1	PL	8		(2 7/32 × 1 9/32)	1	4 1/8	BEV. CF 34 × 2 3/8			J	
18		US2	1	UPPER SHOE						DET. ON DWG #2				
19		P1	1		PIN					DET. ON DWG #13				
20		m$^{R}_{L}$	1/1	C	15	40		3	6 1/2		44	8	24	42
21		s	2	PL	25 1/2		1/2	1	11 3/4	BENT	22	4	24	45
22		t	2	L	7	3 1/4	1/2	0	11	BENT CF 7 × 4 × 1/2	40	0	36	39
23														
24		FW	1	WO			3/8	24	11					
25		FWL	1	WO			5/16	377	9 3/4					
26		FWS	1	WO			5/16	42	11					
27		FW	1	WO			1/2	1	2					
28		SDS	1	WO			7/16	4	6					
29		VGOS	1	WO			3/4	2	8					
30		FW	1	WO			3/16	0	4					
31														
32	C	2af*	1	PLU	13		3/8	4	2	BENT	21	1	24	48
33														
34														
35			24	325	7/8 ϕ			0	3 1/2	H·H·H-H·H·N				
36			13	325	7/8 ϕ			0	2 1/2	H·H·H-H·H·N				
37			37	HW	1 3/4	15/16	3/16						M	
38														
39			2	SB	3/8 ϕ			0	3					
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

INST-9W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G9-8	GIRDER (60'4 × 25'4 × 96'-7 1/4)	

GIRDER

REVISION NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
D1	Not Sent	

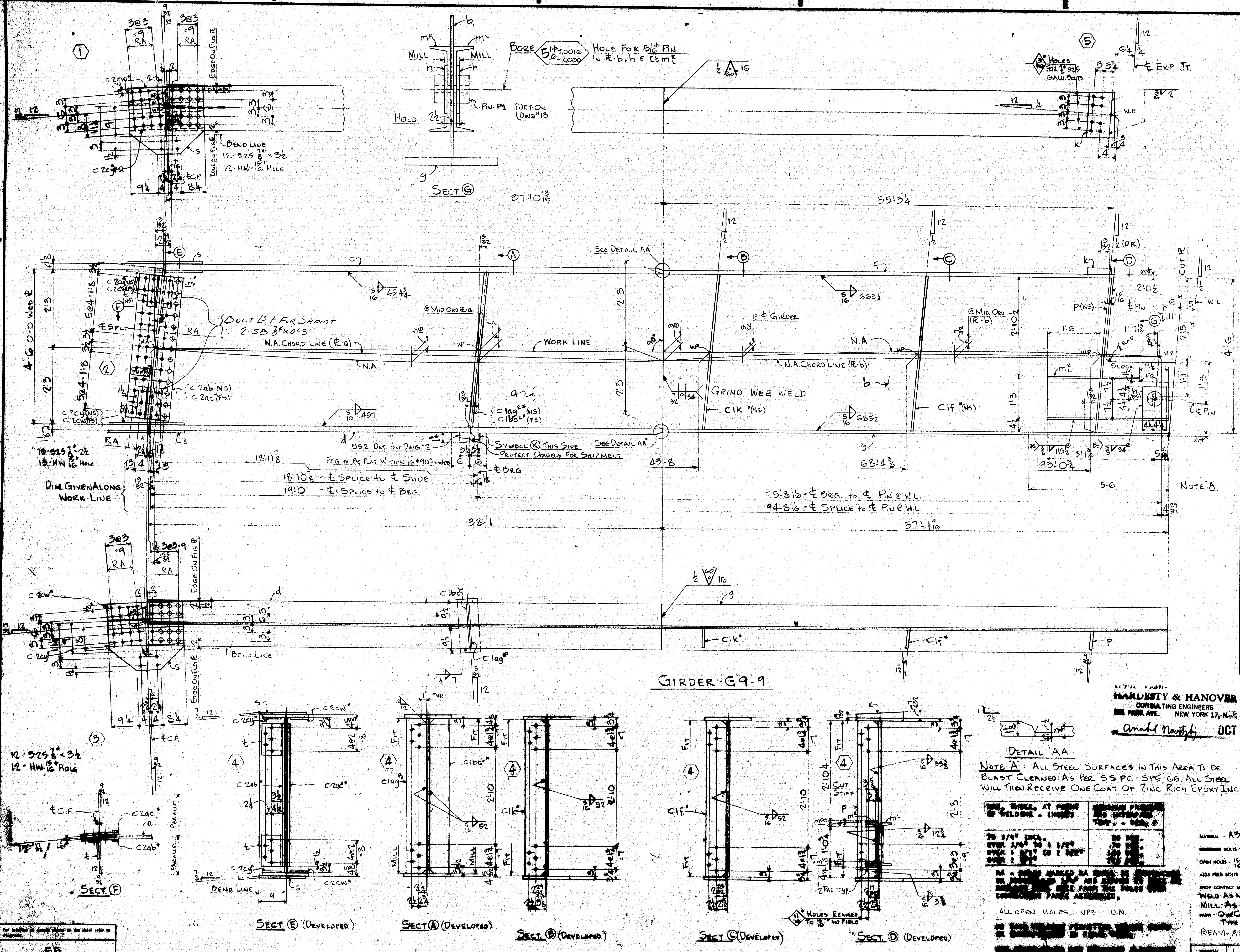
SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

CUSTOMER
MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT NO I95-1(22)16
CONT. NO. 3 - NEW HAMPSHIRE APP
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY DML DATE 8-18-69 IN CHARGE B.K. BERTOLET
CHECKED BY RJ DATE 8/5/69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 192

6

∡ 2°-17'-31" - TAN A = 0.60231 106-192

1 OCT 7 1969



DETAIL 'AA'

NOTE "A": ALL STEEL SURFACES IN THIS AREA TO BE BLAST CLEANED AS PER SSPC-SP5-66. ALL STEEL WILL THEN RECEIVE ONE COAT OF ZINC RICH EPOXY INCLUDING OPEN HOLES

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

RA - HOLES MARKED RA SHALL BE [illegible]

ALL OPEN HOLES NP3 U.N.

[illegible]

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

HARDESTY & HANOVER
CONSULTING ENGINEERS
[illegible] PARK AVE. NEW YORK 17, N.Y.
Anatol Novitzky OCT 3 1969

SHOP BILL

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 - G9-9													
2		a	1	PL	54		1/2	38	1		56 x 1/2	38	5 1/4	2	75
3		b	1	PL	54		7/16	57	2 5/8	(ADT)	56 1/2 x 7/16	57	10 3/4	2	73
4		c	1	PLU	16		1 1/8	37	11		16 x 1 1/8	38	7 3/4	3	80
5		d	1	PLU	16		1 1/8	38	1 3/16		" "	38	7 3/4	3	80
6		f	1	PLU	16		3/4	55	3 1/4		16 x 3/4	56	2	4	75
7		g	1	PLU	16		3/4	57	1 9/16		" "	57	9 3/4	4	73
8	C	2ab*	1	PLU	13		3/8	4	2	BENT		21	1	24	48
9	C	2cy*	2	BR	6 1/2		1/2	2	1 1/2			19	0	24	50
10	C	2cw*	2	BR	6 1/2		1/2	2	1 1/2			19	0	24	50
11	C	1ag^R*	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE		18	4	24	49
12	C	1bc^L*	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE		18	4	24	49
13	C	1f*	1	BR	7		1/2	4	6	F2E		18	4	24	51
14	C	1k*	1	BR	7		1/2	4	6	F2E		18	4	24	51
15		p	1	BR	7		1/2	4	6	F2E		18	4	24	51
16		h	2	PL	8 1/2		1/2	0	8 1/2	MIS	8 1/2 x 3/4			J	
17		k	1	PL	8	(2 1/32 x 9/32)		1	4 1/8	BEV.	CF 34 x 2 3/8			J	
18		US2	1		UPPER SHOE					DET. ON DWG #2					
19		P1	1		PIN					DET ON DWG #13					
20		m^R_L	1/1	C	15	40		3	6 1/2			44	8	24	42
21		s	2	PL	25 1/2		1/2	1	11 1/4	BENT.		22	4	24	45
22		t	2	L	7	3 1/4	1/2	0	11	BENT	CF 7x4x1/2	40	0	36	39
23	C	2ac*	1	PLU	13		3/8	4	2	BENT		21	1	24	48
24		FW	1	WD			3/8	24	11						
25		FWL	1	WD			5/16	376	9						
26		FWS	1	WD			5/16	42	11						
27		FW	1	WD			1/2	1	2						
28		SDS	1	WD			7/16	4	6						
29		V60S	1	WD			3/4	2	8						
30		FW	1	WD			3/16	0	4						
31															
32															
33			24	325	7/8 Ø			0	3 1/2	H-H-H-H-H-N					
34			13	325	7/8 Ø			0	2 1/2	H-H-H-H-H-N					
35			37	HW	1 3/4	15/16	3/16							M	
36															
37			2	SB	7/8 Ø			0	3						

INST-9E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G9-9	GIRDER (60 1/4 x 25 1/4 x 96'-4 1/2)	

PAY ITEM - 504711

GIRDER

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

REVISION

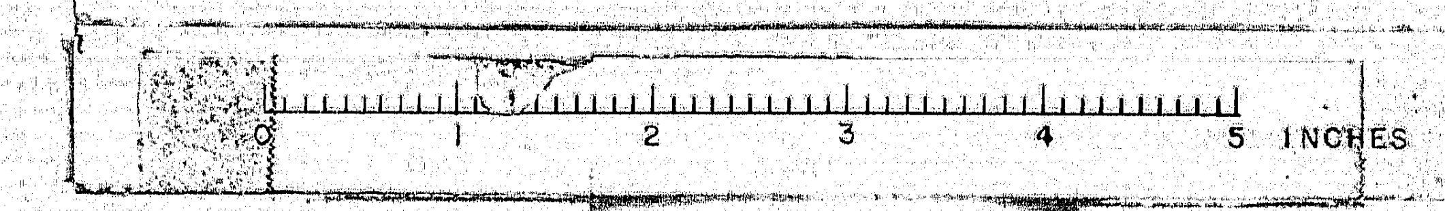
CUSTOMER
MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT NO I 95-1(22) 16
CONT. NO. 3 - NEW HAMPSHIRE APP
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY DML DATE 5-18-69 IN CHARGE B.K. [illegible]
CHECKED BY RJ DATE 8/5/69 SHOP NO. 2
CONTRACT CJ-6299-020 DRAWING NO. 193

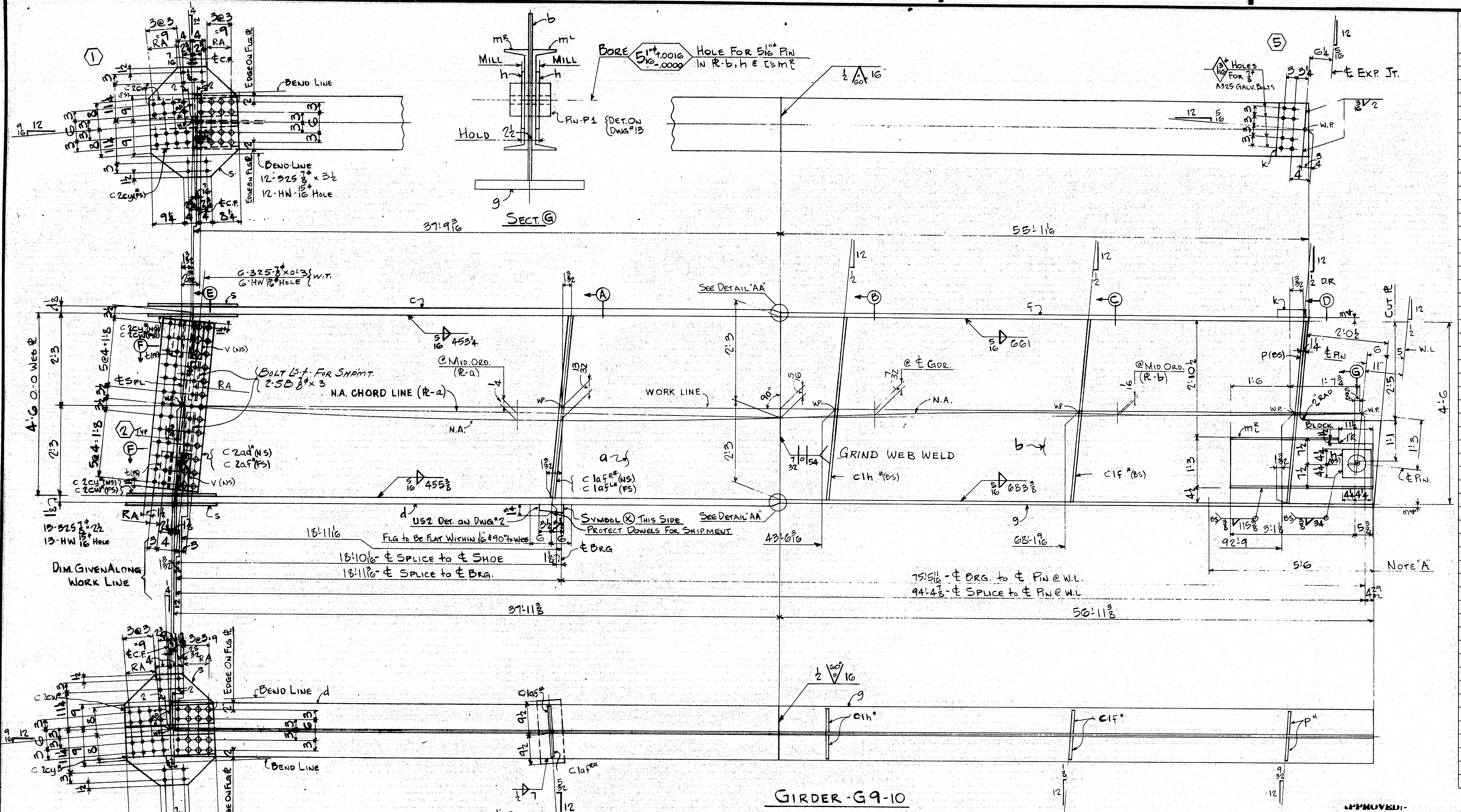
E5

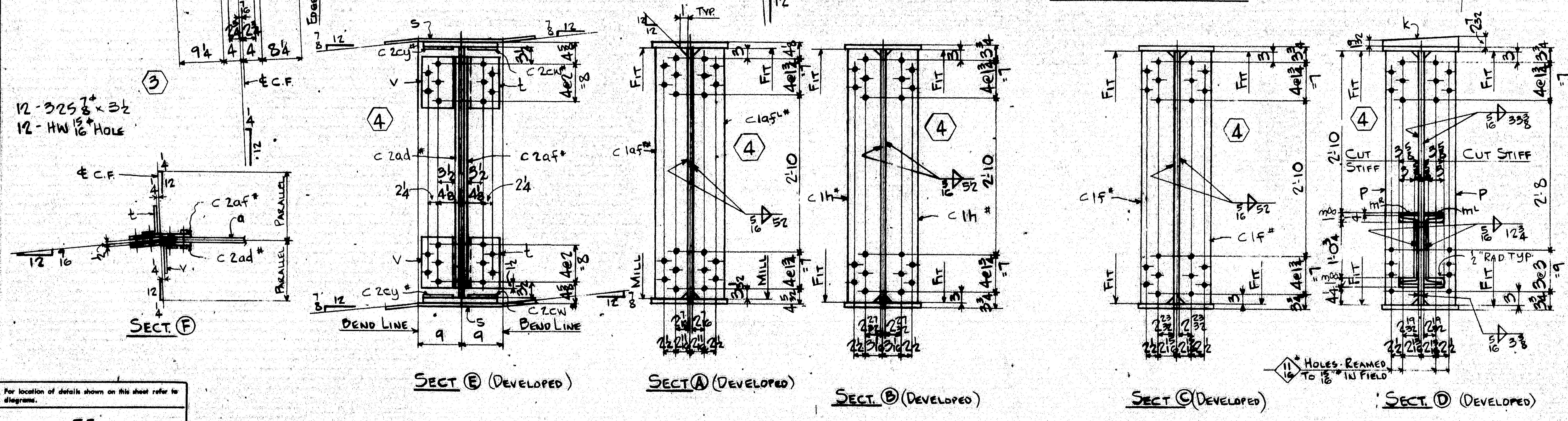
2+4

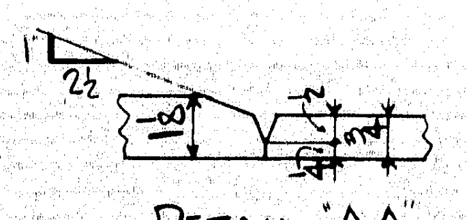
2°-17'-55" Tan A: 8.60358

106-193









DETAIL "AA"

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
[illegible] PARK AVE. NEW YORK 17, N.Y.
Anatol Novitzky OCT 3 [illegible]

NOTE "A": ALL STEEL SURFACES IN THIS AREA TO BE BLAST CLEANED AS PER SSPC-SP5-66. ALL STEEL WILL THEN RECEIVE ONE COAT OF ZINC RICH EPOXY-INCLUDING OPEN HOLES

PAY ITEM-504711

MIN. 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.

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.

ALL OPEN HOLES - NP 3 U.N.

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

USE E70[illegible], 18-28 LOW HYDROGEN ELECTRODES OR [illegible], EM-2 FOR WELDING.

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

SHOP BILL											MILL ORDER			
LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	THICK	LENGTH FT.	LENGTH IN.	REMARKS	LENGTH FT.	LENGTH IN.	ITEM PAGE	ITEM LINE
1		ONE-GIRDER-G9-10												
2		a	1	PL	54		½	37	11⅜	56×½	38	5¼	2	75
3		b	1	PL	54		7/16	57	0 7/16	56½×7/16	57	10¾	2	73
4		c	1	PLU	16		1⅛	37	9⅜	16×1⅛	38	7¾	3	80
5		d	1	PLU	16		1⅛	37	11 9/16	" "	38	7¾	3	80
6		f	1	PLU	16		¾	55	1 1/16	16×¾	56	02	4	75
7		g	1	PLU	16		¾	56	11⅜	" "	57	9¾	4	73
8	C	2ad#	1	PLU	13		⅜	4	2	BENT	21	1	24	48
9	C	2cy#	2	BR	6½		½	2	1½		19	0	24	50
10	C	2cw#	2	BR	6½		½	2	1½		19	0	24	50
11	C	1af R#	1	BR	7½		¾	4	6 3/32	MIE-FIE	18	4	24	49
12	C	1af L#	1	BR	7½		¾	4	6 3/32	MIE-FIE	18	4	24	49
13	C	1f#	2	BR	7		½	4	6	F2E	18	4	24	51
14	C	1h#	2	BR	7		½	4	6	F2E	18	4	24	51
15		p	2	BR	7		½	4	6	F2E	18	4	24	51
16		h	2	PL	8½		½	0	8½	MIS 8½×¾			J	
17		k	1	PL	8	(2 1/32 × 1 9/32)	1		4 3/16	BEV. CF34×2⅜			J	
18		US2	1	UPPER SHOE						DET. ON DWG #2				
19		P1	1		PIN					DET ON DWG #13				
20		m R/L	1/1	C	15	40		3	6½		44	8	24	42
21		s	2	PL	25½		½	2	7½	BENT	22	4	24	45
22		t	2	L	7	3¼	½	0	11	BENT CF7×4×½	40	0	36	39
23		v	2	L	7	3¼	½	0	11	BENT " "	40	0	36	39
24		FW	1	WD			⅜	24	11					
25		FWL	1	WD			5/16	375	6					
26		FWS	1	WD			5/16	68	6					
27		FW	1	WD			½	1	2					
28		SDS	1	WD			7/16	4	6					
29		VGOS	1	WD			¾	2	8					
30		FW	1	WD			3/16	0	4					
31														
32	C	2af#	1	PLU	13		⅜	4	2	BENT	21	1	24	48
33														
34														
35			24	325	⅞"			0	3½	H·H·H-H·H·N				
36			13	325	⅞"			0	2½	H·H·H-H·H·N				
37			43	HW	1¾	15/16	3/16						M	
38			6	325	⅞"			0	3	HHH-HHN				
39			2	SB	⅞"			0	3					
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

INST-9E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G9-10	GIRDER (60¼×31½×96'-0¾)	

GIRDER

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 I95-1(22) 16
CONT. NO. 3 - NEW HAMPSHIRE APP
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY DML DATE 8-19-69 IN CHARGE B.K. BERTOLET
CHECKED BY RJ DATE 8/5/69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 194

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

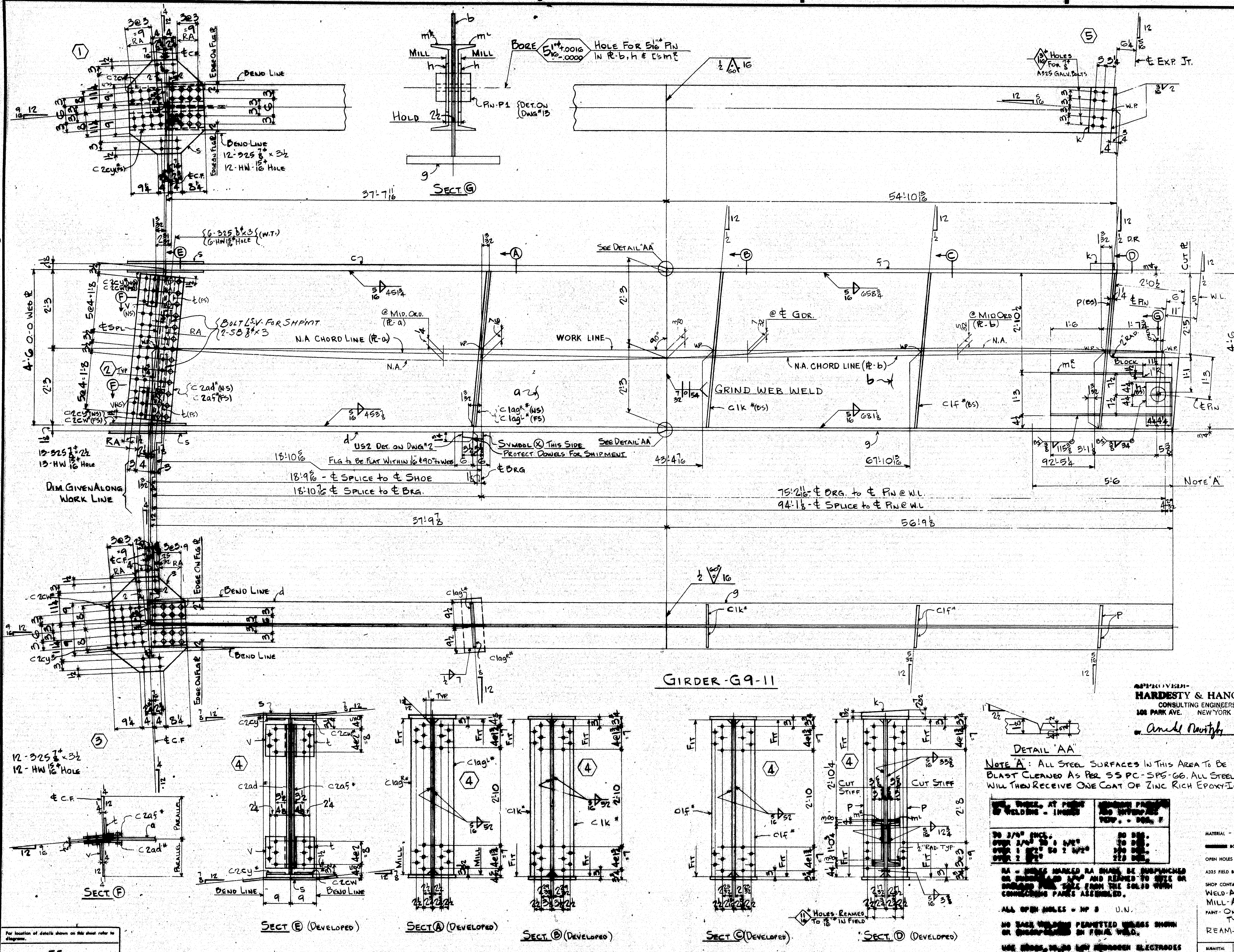
E5

∡ 2°-18'-35 — TAN A = 8.60567

106-194

35453 (Rev.C 4-65)

1 OCT 2 19[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 - G9-11													
2		a	1	PL	54		1/2	37	9 7/8		56 x 1/2	38	5 1/4	2	75
3		b	1	PL	54		7/16	56	10 3/16		56 1/2 x 7/16	57	10 3/4	2	73
4		c	1	PLU	16		1 1/8	37	7 7/8		16 x 1 1/8	38	7 3/4	3	80
5		d	1	PLU	16		1 1/8	37	10 1/16		" "	38	7 3/4	3	80
6		f	1	PLU	16		3/4	54	10 13/16		16 x 3/4	55	01	4	76
7		g	1	PLU	16		3/4	56	9 1/8		" "	57	01	4	74
8	C	2ad*	1	PLU	13		3/8	4	2	BENT		21	1	24	48
9	C	2cy*	2	BR	6 1/2		1/2	2	1 1/2			19	0	24	50
10	C	2cw*	2	BR	6 1/2		1/2	2	1 1/2			19	0	24	50
11	C	1ag^R*	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE		18	4	24	49
12	C	1ag^L*	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE		18	4	24	49
13	C	1f*	2	BR	7		1/2	4	6	F2E		18	4	24	51
14	C	1k*	2	BR	7		1/2	4	6	F2E		18	4	24	51
15		P	2	BR	7		1/2	4	6	F2E		18	4	24	51
16		h	2	PL	8 1/2		1/2	0	8 1/2	MIS	8 1/2 x 3/4			J	
17		k	1	PL	8		2 7/32 (1 9/32)	1	4 3/16	BEV.	CF34 x 2 3/8			J	
18		US2	1	UPPER SHOE						DET. ON DWG #2					
19		P1	1		PIN					DET ON DWG #13					
20		m^R_L	1/1	C	15	40		3	6 1/2			44	8	24	42
21		s	2	PL	25 1/2		1/2	2	7 1/2	BENT		22	4	24	45
22		t	2	L	7	3 1/4	1/2	0	11	BENT	CF 7x4x1/2	40	0	36	39
23		v	2	L	7	3 1/4	1/2	0	11	BENT	" "	40	0	36	39
24		FW	1	WD			3/8	24	11						
25		FWL	1	WD			5/16	374	3						
26		FWS	1	WD			5/16	68	6						
27		FW	1	WD			1/2	1	2						
28		SDS	1	WD			7/16	4	6						
29		V60S	1	WD			3/4	2	8						
30		FW	1	WD			3/16	0	4						
31															
32	C	2af*	1	PLU	13		3/8	4	2	BENT		21	1	24	48
33															
34															
35			24	325	7/8 ϕ			0	3 1/2	H·H·H - H·H·N					
36			13	325	7/8 ϕ			0	2 1/2	H·H·H - H·H·N					
37			43	HW	1 3/4	15/16	3/16							M	
38			6	325	3/4 ϕ			0	3	HHH - HHN					
39			2	SB	3/4 ϕ			0	3						
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.
BY Arnold Novitzky OCT 3 1969

DETAIL "AA"

NOTE "A": ALL STEEL SURFACES IN THIS AREA TO BE BLAST CLEANED AS PER SSPC-SP5-66. ALL STEEL WILL THEN RECEIVE ONE COAT OF ZINC RICH EPOXY-INCLUDING OPEN HOLES

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.

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 U.N.

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

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

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

INST-9E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G9-11	GIRDER (60 1/4 x 31 1/2 x 95'-9)	

PAY ITEM - 504711

GIRDER

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 I95-1(22) 16
CONT. NO. 3 - NEW HAMPSHIRE APP
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY DML DATE 8-19-69 IN CHARGE B.K. BERTOLET
CHECKED BY RJ DATE 8/5/69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. • 195

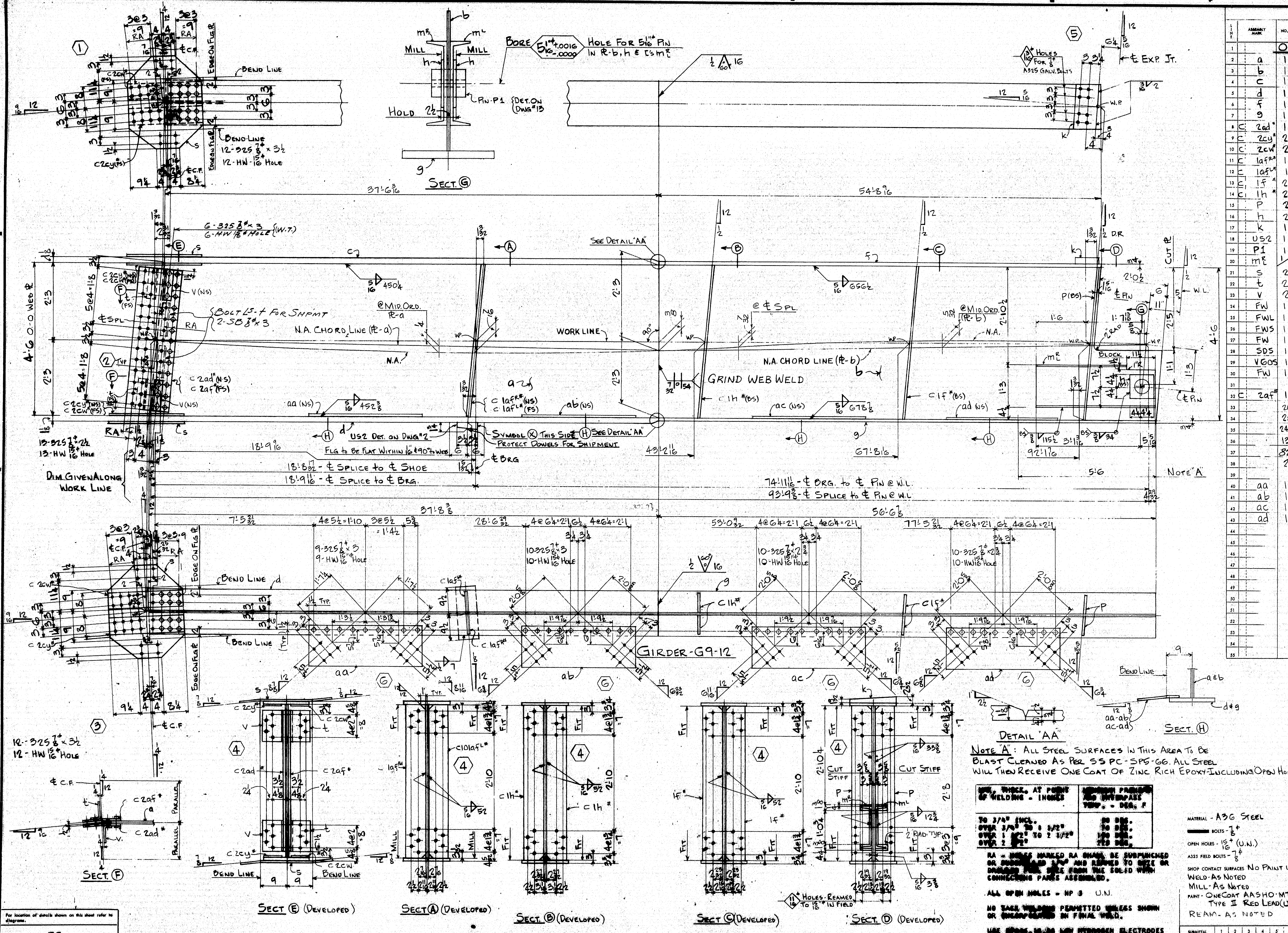
For location of details shown on this sheet refer to diagrams.
E5

∡ 2°-19'-16" - TAN A = 8.60781

106 - 195

35453 (Rev. C 4-63)

OCT 7 1969



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-G9-12												
2		a	1	PL	54		1/2	37	8 3/8	56 × 1/2	38	5 1/4	2	75
3		b	1	PL	54		7/16	56	7 15/16	56 1/2 × 7/16	57	10 3/4	2	73
4		c	1	PLU	16		1 1/8	37	6 3/8	16 × 1 1/8	37	9 1/4	4	70 A
5		d	1	PLU	16		1 1/8	37	8 9/16	" "	37	9 1/4	4	70 A
6		f	1	PLU	16		3/4	54	8 9/16	16 × 3/4	55	01	4	76
7		g	1	PLU	16		3/4	56	6 7/8	" "	57	01	4	74
8	C	2ad*	1	PLU	13		3/8	4	2	Bent	21	1	24	48
9	C	2cy*	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
10	C	2cw*	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
11	C	1af R*	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE	18	4	24	49
12	C	1af L*	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE	18	4	24	49
13	C	1f*	2	BR	7		1/2	4	6	F2E	18	4	24	51
14	C	1h*	2	BR	7		1/2	4	6	F2E	18	4	24	51
15		p	2	BR	7		1/2	4	6	F2E	18	4	24	51
16		h	2	PL	8 1/2		1/2	0	8 1/2	MIS 8 1/2 × 3/4			J	
17		k	1	PL	8	(2 3/32 × 1/32)	1	4 3/16		Bev. CF34×2 3/8			J	
18		US2	1	Upper Shoe						Det. on Dwg #2				
19		P1	1	Pin						Det on Dwg #13				
20		m R/L	1/1	C	15	40		3	6 1/2		44	8	24	42
21		s	2	PL	25 1/2		1/2	2	7 1/2	Bent	22	4	24	45
22		t	2	L	7	3 1/4	1/2	0	11	Bent CF7×4×1/2	40	0	36	39
23		v	2	L	7	3 1/4	1/2	0	11	Bent " "	40	0	36	39
24		FW	1	WD			3/8	24	11					
25		FWL	1	WD			5/16	373	0					
26		FWS	1	WD			5/16	68	6					
27		FW	1	WD			1/2	1	2					
28		SDS	1	WD			7/16	4	6					
29		VGOS	1	WD			3/4	2	8					
30		FW	1	WD			3/16	0	4					
31														
32	C	2af*	1	PLU	13		3/8	4	2	Bent	21	1	24	48
33			20	325	7/8φ			0	2 3/4	H·H·H-H·H·N				
34			25	325	7/8φ			0	3	H·H·H-H·H·N				
35			24	325	7/8φ			0	3 1/2	H·H·H-H·H·N			M	
36			13	325	7/8φ			0	2 1/2	H·H·H-H·H·N				
37			82	HW	1 3/4	15/16	3/16							
38			2	SB	7/8φ			0	3					
39														
40		aa	1	PL	14 1/2		5/8	3	11 1/4	Bent	26	0	28	19
41		ab	1	PL	14 1/2		5/8	4	11 1/2	Bent	26	0	28	19
42		ac	1	PL	14 1/2		5/8	4	11 1/2	Bent	26	0	28	19
43		ad	1	PL	14 1/2		5/8	4	11 1/2	Bent	26	0	28	19
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.
Archd Nowitzky 3 1969

Inst-9E

Required List

Qty	Shipping Mark	Description	Remarks
One	G9-12	Girder (60 1/4 × 31 1/2 × 95'-4)	

Note "A": All Steel Surfaces In This Area To Be Blast Cleaned As Per SSPC-SP5-66. All Steel Will Then Receive One Coat Of Zinc Rich Epoxy-Including Open Holes

Pay Item-504711

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.

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.

ALL OPEN HOLES - NP 3 U.N.

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

USE [illegible] LOW HYDROGEN ELECTRODES OR EQ. SAW-2 FOR WELDING.

MATERIAL - A36 Steel
BOLTS - 7/8φ
OPEN HOLES - 15/16φ (U.N.)
A325 FIELD BOLTS - 7/8φ
SHOP CONTACT SURFACES No Paint U.N.
Weld-As Noted
Mill-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 I95-1(22) 16
Cont. No. 3 - New Hampshire App
Structural, Steel

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

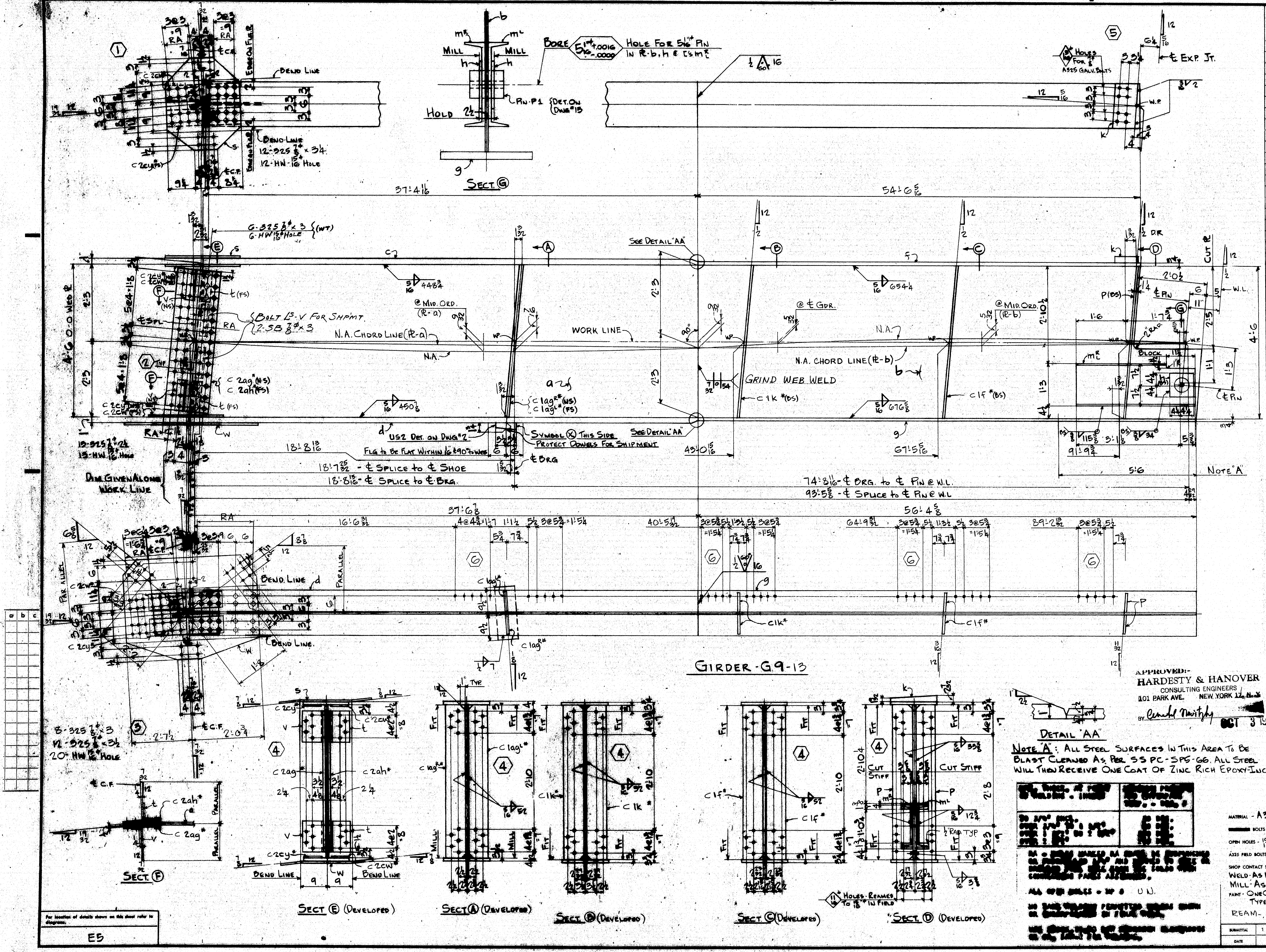
POTTSTOWN DRAFTING ROOM Pottstown WORKS
MADE BY DML DATE 8-20-69 IN CHARGE B.K. Bertolet
CHECKED BY RJ DATE 8/5/69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 196

35453 (Rev. C 4-65)

For location of details shown on this sheet refer to diagrams.
E5

∡ 2°-19'-56 – Tan A = 8.60989

106 - 196



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-G9-13												
2	a	1	PL	54		1/2	37	6 7/8	56 × 1/2	38	5 1/4	2	75
3	b	1	PL	54		7/16	56	5 11/16	56 1/2 × 7/16	57	10 3/4	2	73
4	c	1	PLU	16		1	37	4 3/8	16 × 1	37	9 1/4	4	70
5	d	1	PLU	16		1	37	7 1/16	" "	37	9 1/4	4	70
6	f	1	PLU	16		3/4	54	6 5/16	16 × 3/4	55	0 1	4	76
7	g	1	PLU	16		3/4	56	4 5/8	" "	57	0 1	4	74
8	C 2ag*	1	PLU	13		3/8	4	2	BENT	21	1	24	48
9	C 2cy*	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
10	C 2cw*	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
11	C 1ag R*	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE	18	4	24	49
12	C 1ag L*	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE	18	4	24	49
13	C 1f*	2	BR	7		1/2	4	6	F2E	18	4	24	51
14	C 1k*	2	BR	7		1/2	4	6	F2E	18	4	24	51
15	p	2	BR	7		1/2	4	6	F2E	18	4	24	51
16	h	2	PL	8 1/2		1/2	0	8 1/2	MIS 8 1/2 × 3/4			J	
17	k	1	PL	8	(2 3/32 × 1 9/32)		1	4 3/16	BEV. CF34 × 2 3/8			J	
18	US2	1	UPPER SHOE						DET. ON DWG #2				
19	P1	1		PIN					DET. ON DWG #13				
20	m R/L	1/1	C	15	40		3	6 1/2		44	8	24	42
21	s	1	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
22	t	2	L	7	3 1/4	1/2	0	11	BENT CF7×4×1/2	40	0	36	39
23	v	2	L	7	3 1/4	1/2	0	11	BENT " "	40	0	36	39
24	FW	1	WD			3/8	24	11					
25	FWL	1	WD			5/16	371	9					
26	FWS	1	WD			5/16	68	6					
27	FW	1	WD			1/2	1	2					
28	SDS	1	WD			7/16	4	6					
29	V6OS	1	WD			3/4	2	8					
30	FW	1	WD			3/16	0	4					
31													
32	C 2ah*	1	PLU	13		3/8	4	2	BENT	21	1	24	48
33	w	1	PL	34 1/2		5/8	4	8 1/4	BENT			J	
34		14	325	7/8⌀			0	3	H·H·H-H·H·N				
35		12	325	7/8⌀			0	3 1/4	H·H·H-H·H·N				
36		13	325	7/8⌀			0	2 1/2	H·H·H-H·H·N			M	
37		51	HW	1 3/4	15/16	3/16							
38		12	325	7/8⌀			0	3 1/2	H·H·H-H·H·N				
39		2	SB	7/8⌀			0	3					
40													
41													
42													
43													
44													
45													
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47													
48													
49													
50													
51													
52													
53													
54													
55													

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Cenahl Mavitzky OCT 3 1969

INST-9E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G9-13	GIRDER (60×34 1/2×96'-7)	

NOTE "A": ALL STEEL SURFACES IN THIS AREA TO BE BLAST CLEANED AS PER SSPC-SP5-66. ALL STEEL WILL THEN RECEIVE ONE COAT OF ZINC RICH EPOXY-INCLUDING OPEN HOLES

PAY ITEM-504711

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

[illegible]

[illegible] U.N.

[illegible]

[illegible]

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

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

CUSTOMER
MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT NO I95-1(22) 16
CONT. NO. 3 - NEW HAMPSHIRE APP
STRUCTURAL STEEL

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY DML DATE 8-21-69 IN CHARGE B.K. BERTOLET
CHECKED BY R.J. DATE 8/5/69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 197

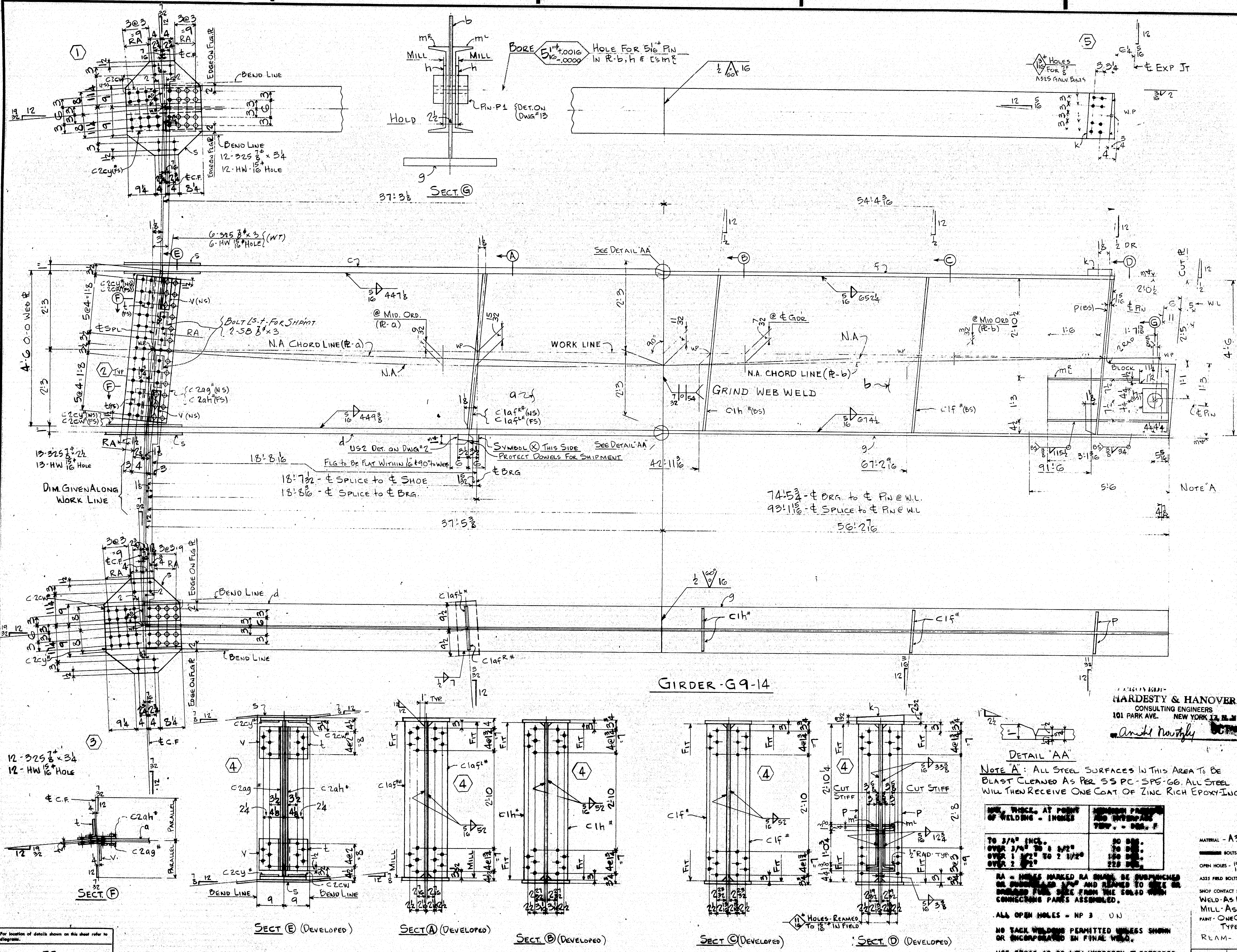
For location of details shown on this sheet refer to diagrams.

E5

35453 (Rev. C 4-65)

∡ 2°-20'-37" - TAN A = 8.61200

106-197



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-G9-14												
2	a	1	PL	54		1/2	37	5 3/8	56 × 1/2	38	5 1/4	2	75
3	b	1	PL	54		7/16	56	3 1/2	ABT. 56 1/2 × 7/16	57	10 3/4	2	73
4	c	1	PLU	16		1	37	3 1/4	16×1	37	9 1/4	4	70
5	d	1	PLU	16		1	37	5 1/2	" "	37	9 1/4	4	70
6	f	1	PLU	16		3/4	54	4 3/16	16 × 3/4	55	01	4	76
7	g	1	PLU	16		3/4	56	2 7/16	" "	57	01	4	74
8	C 2ag#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
9	C 2cy#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
10	C 2cw#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
11	C 1af^{R#}	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE	18	4	24	49
12	C 1af^{L#}	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE	18	4	24	49
13	C 1f#	2	BR	7		1/2	4	6	F2E	18	4	24	51
14	C 1h#	2	BR	7		1/2	4	6	F2E	18	4	24	51
15	P	2	BR	7		1/2	4	6	F2E	18	4	24	51
16	h	2	PL	8 1/2		1/2	0	8 1/2	MIS 8 1/2 × 3/4			J	
17	k	1	PL	8	(2 3/32 × 1 3/32)	1		4 3/16	BEV. CF34 × 2 3/8			J	
18	US2	1	UPPER SHOE						DET. ON DWG #2				
19	P1	1		PIN					DET ON DWG #13				
20	m^R_L	1/1	C	15	40		3	6 1/2		44	8	24	42
21	s	2	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
22	t	2	L	7	3 1/4	1/2	0	11	BENT CF7×4×1/2	40	0	36	39
23	v	2	L	7	3 1/4	1/2	0	11	BENT " "	40	0	36	39
24	FW	1	WD			3/8	24	11					
25	FWL	1	WD			5/16	370	6 1/2					
26	FWS	1	WD			5/16	68	6					
27	FW	1	WD			1/2	1	2					
28	SDS	1	WD			7/16	4	6					
29	VGOS	1	WD			3/4	2	8					
30	FW	1	WD			3/16	0	4					
31													
32	C 2ah#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
33													
34													
35		24	325	7/8+			0	3 1/4	H·H·H - H·H·N				
36		13	325	7/8+			0	2 1/2	H·H·H - H·H·N				
37		43	HW	1 3/4	15/16	3/16						M	
38		6	325	7/8 ϕ			0	3	HHH - HHN				
39		2	SB	7/8 ϕ			0	3					

APPROVED
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
OCT 3 1969

Note "A": All Steel Surfaces In This Area To Be Blast Cleaned As Per SSPC-SP5-66. All Steel Will Then Receive One Coat Of Zinc Rich Epoxy-Including Open Holes

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.

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

ALL OPEN HOLES - NP 3 UN

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

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

MATERIAL - A36 Steel
[redacted] BOLTS - 7/8 ϕ
OPEN HOLES - 15/16 + (U.N.)
A325 FIELD BOLTS - 7/8 ϕ
SHOP CONTACT SURFACES No Paint U.N
Weld - As Noted
Mill - 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										

INST-9E

Required List			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G9-14	GIRDER (60 × 31 1/2 × 94'-10)	

PAY ITEM - 504711

GIRDER

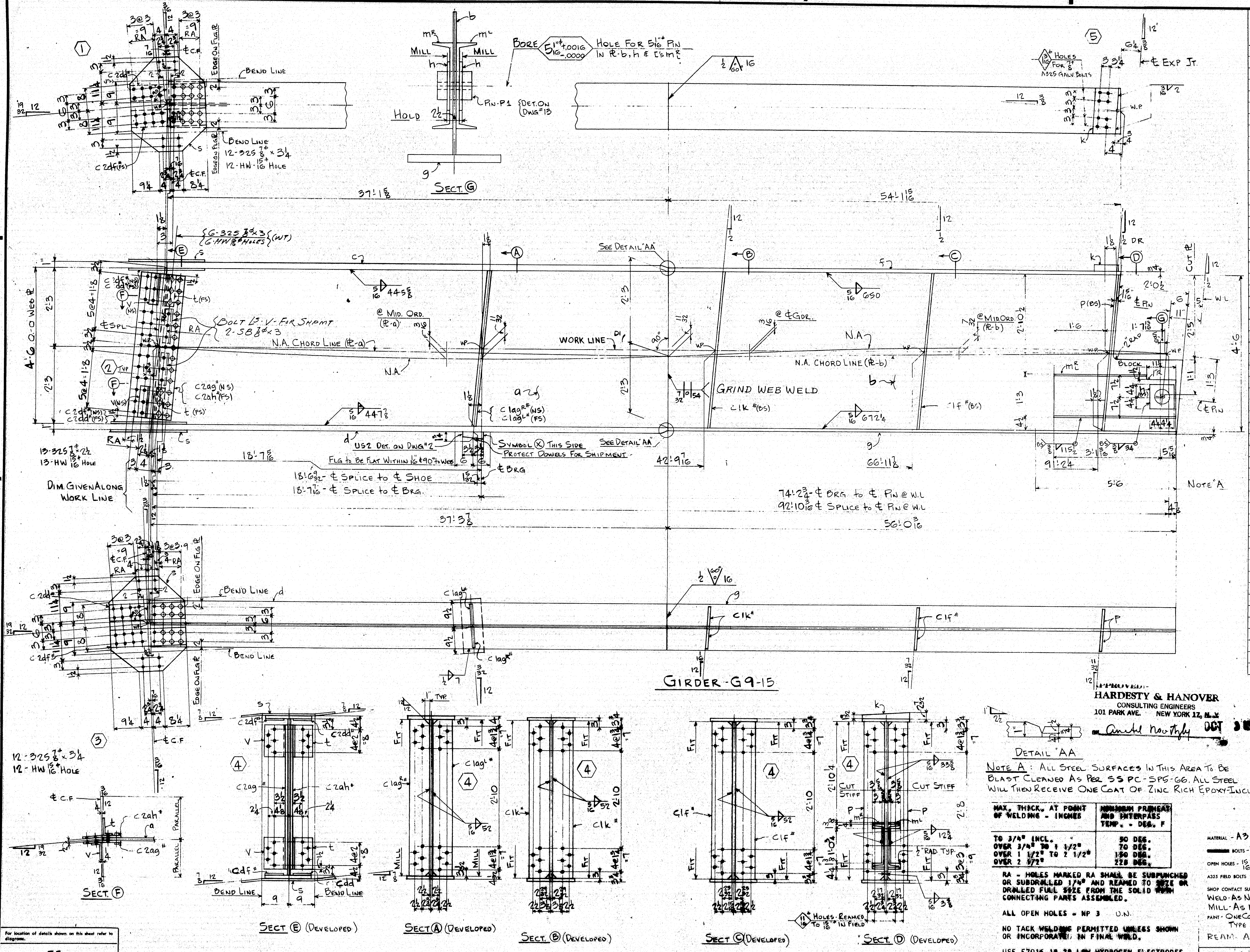
NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

REVISION

CUSTOMER Maine State Highway Commission
Piscataqua River Bridge
Project No I95-1(22) 16
Cont. No. 3 - New Hampshire App
Structural Steel
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM Pottstown WORKS
MADE BY DML DATE 8-21-69 IN CHARGE B.K. Bertolet
CHECKED BY RJ DATE 8/5/69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 198

∡ 2°-21'-19" - TAN A = .041417

106-198



Note A: All Steel Surfaces In This Area To Be Blast Cleaned As Per SSPC-SP5-66. All Steel Will Then Receive One Coat Of Zinc Rich Epoxy-Including Open Holes

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.

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 U.N.

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

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

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

APPROVED
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY Arnold Noorthy OCT 3 1969

SHOP BILL

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-G9-15												
2		a	1	PL	54		1/2	37	3 7/8	56 × 1/2	38	5 1/4	2	75
3		b	1	PL	54		7/16	56	1 1/4	56 1/2 × 7/16	56	6 1/2	2	76
4		c	1	PLU	16		1	37	1 3/4	16 × 1	37	9 1/4	4	70
5		d	1	PLU	16		1	37	4	" "	37	9 1/4	4	70
6		f	1	PLU	16		3/4	54	1 5/16	16 × 3/4	55	01	4	76
7		g	1	PLU	16		3/4	56	0 3/16	" "	57	01	4	74
8	C	2ag*	1	PLU	13		3/8	4	2	Bent	21	1	24	48
9	C	2dd*	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
10	C	2df*	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
11	C	$1ag^{R}$*	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE	18	4	24	49
12	C	$1ag^{L}$*	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE	18	4	24	49
13	C	1f*	2	BR	7		1/2	4	6	F2E	18	4	24	51
14	C	1k*	2	BR	7		1/2	4	6	F2E	18	4	24	51
15		p	2	BR	7		1/2	4	6	F2E	18	4	24	51
16		h	2	PL	8 1/2		1/2	0	8 1/2	MIS 8 1/2 × 3/4			J	
17		k	1	PL	8	(2 7/32 × 1 9/32)		1	4 1/4	Bev. CF34 × 2 3/8			J	
18		US2	1	Upper Shoe						Det. on Dwg #2				
19		P1	1		Pin					Det. on Dwg #13				
20		m^{R}_{L}	1/1	C	15	40		3	6 1/2		44	8	24	42
21		s	2	PL	25 1/2		1/2	2	7 1/2	Bent	22	4	24	45
22		t	2	L	7	3 1/4	1/2	0	11	Bent CF7×4×1/2	40	0	36	39
23		v	2	L	7	3 1/4	1/2	0	11	Bent " "	40	0	36	39
24		FW	1	WD			3/8	24	11					
25		FWL	1	WD			5/16	369	3 1/2					
26		FWS	1	WD			5/16	68	6					
27		FW	1	WD			1/2	1	2					
28		SDS	1	WD			7/16	4	6					
29		VGOS	1	WD			3/4	2	8					
30		FW	1	WD			3/16	0	4					
31														
32	C	2ah*	1	PLU	13		3/8	4	2	Bent	21	1	24	48
33														
34														
35			24	325	7/8"			0	3 1/4	H·H·H-H·H·N				
36			13	325	7/8"			0	2 1/2	H·H·H-H·H·N				
37			43	HW	1 3/4	15/16	9/16						M	
38			6	325	7/8 ø			0	3	HHH-HHN				
39			2	SB	7/8 ø			0	3					

INST-9E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G9-15	GIRDER (60 × 31 1/2 × 94'-6)	

PAY ITEM - 504711

GIRDER

NO.	DATE	INIT.
D1	Not Sent	

REVISION

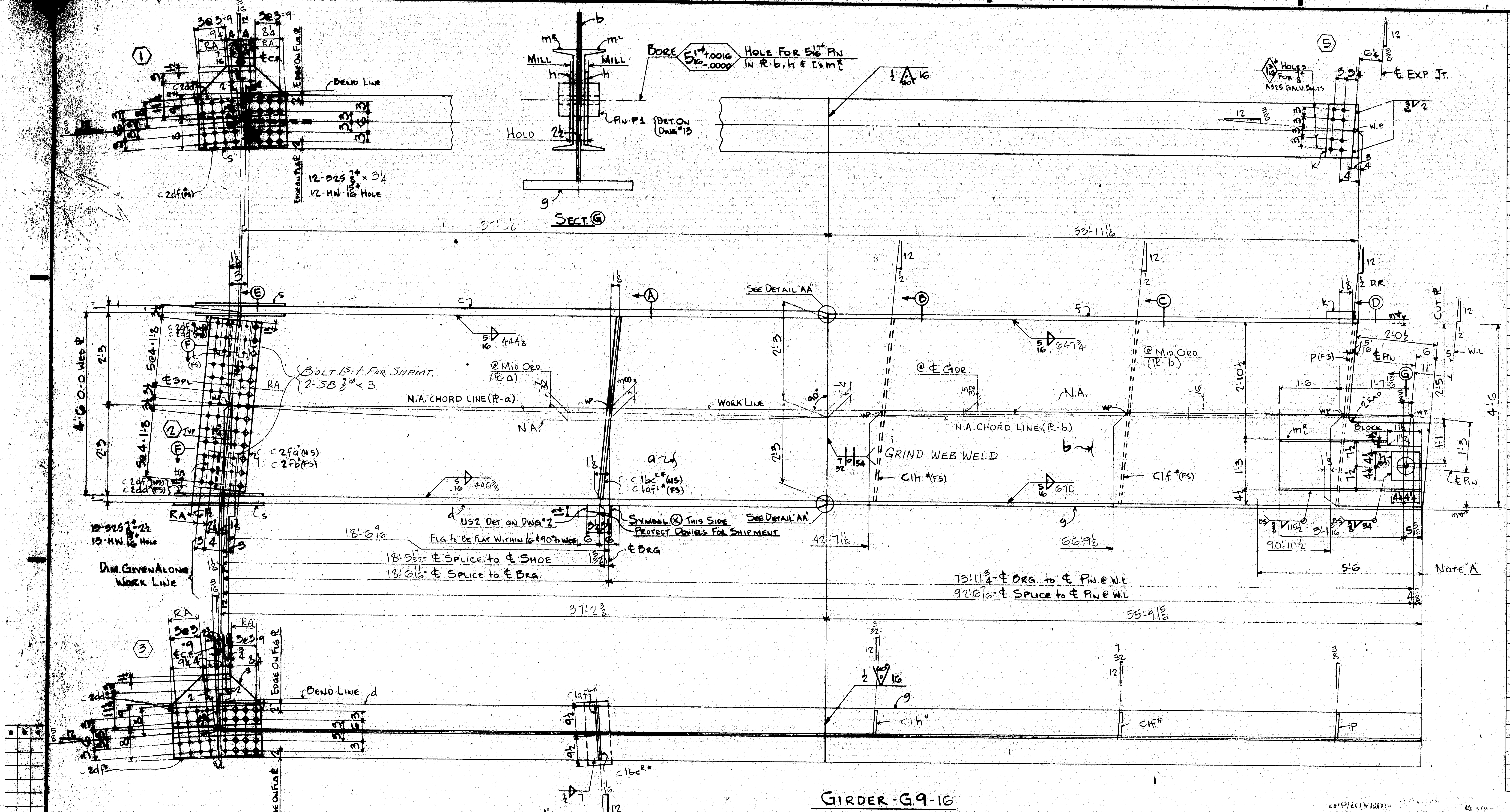
SUBMITTAL 1 2 3 4 5 6 7 8 9 0
DATE

CUSTOMER
Maine State Highway Commission
Piscataqua River Bridge
Project No I95-1(22) 16
Cont. No. 3 - New Hampshire App
Structural Steel
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM Pottstown WORKS
MADE BY DML DATE 8-22-69 IN CHARGE B.K. Bertolet
CHECKED BY RJ DATE 8/5/69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 199

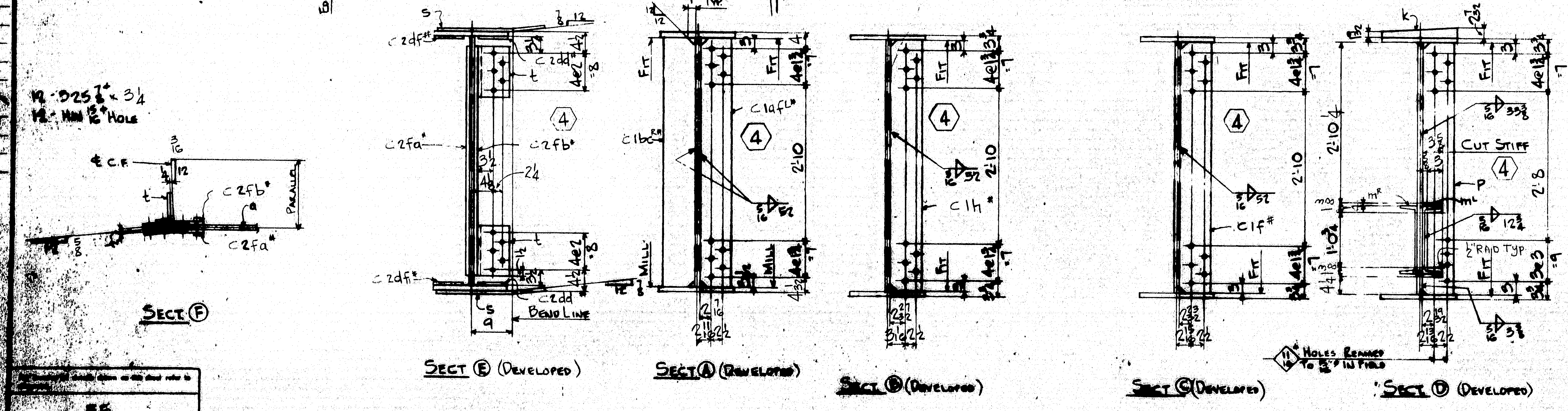
For location of details shown on this sheet refer to diagram.
E5

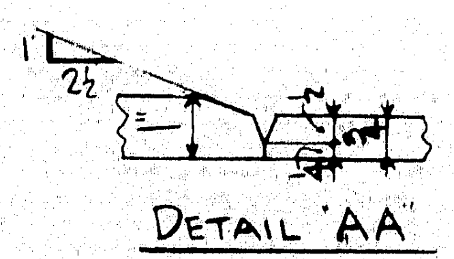
∡ 2°-22'-00 - TAN A = .861626

106-199



GIRDER - G9-16





DETAIL "AA"

NOTE "A": ALL STEEL SURFACES IN THIS AREA TO BE BLAST CLEANED AS PER SSPC-SP5-66. ALL STEEL WILL THEN RECEIVE ONE COAT OF ZINC RICH EPOXY-INCLUDING OPEN HOLES

PAY ITEM-504711

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

[illegible]

ALL OPEN HOLES = [illegible] U.N

[illegible]

[illegible]

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

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE, NEW YORK 17, N.Y.
BY Archil Novitzky

SHOP BILL														
LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	THICK	LENGTH FT.	LENGTH IN.	REMARKS	LENGTH FT.	LENGTH IN.	ITEM PAGE	[illegible]
1		ONE-GIRDER-G9-16												
2		a	1	PL	54		1/2	37	2 3/8	56×1/2	38	5 1/4	2	75
3		b	1	PL	54		7/16	55	11	56 1/2×7/16	56	6 1/2	2	76
4		c	1	PLU	16		1	37	0 1/4	16×1	37	9 1/4	4	70
5		d	1	PLU	16		1	37	2 1/2	" "	37	9 1/4	4	70
6		f	1	PLU	16		3/4	53	11 11/16	16×3/4	55	01	4	76
7		g	1	PLU	16		3/4	55	9 15/16	" "	56	02	4	75
8	C	2fa#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
9	C	2dd#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
10	C	2df#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
11	C	1afL#	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE	18	4	24	49
12	C	1bcR#	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE	18	4	24	49
13	C	1f#	1	BR	7		1/2	4	6	F2E	18	4	24	51
14	C	1h#	1	BR	7		1/2	4	6	F2E	18	4	24	51
15		p	1	BR	7		1/2	4	6	F2E	18	4	24	51
16		h	2	PL	8 1/2		1/2	0	8 1/2	MIS 8 1/2×3/4			J	
17		k	1	PL	8	(2 7/32×1 9/32)		1	4 1/4	BEV. CF34×2 3/8			J	
18		US2	1	UPPER SHOE						DET. ON DWG #2				
19		P1	1		PIN					DET. ON DWG #13				
20		mR/L	1/1	C	15	40		3	6 1/2		44	8	24	42
21		s	2	PL	25 1/2		1/2	1	11 3/4	BENT	22	4	24	45
22		t	2	L	7	3 1/4	1/2	0	11	BENT CF7×4×1/2	40	0	36	39
23														
24		FW	1	WO			3/8	24	11					
25		FWL	1	WO			5/16	368	0 1/2					
26		FWS	1	WO			5/16	42	11					
27		FW	1	WO			1/2	1	2					
28		SDS	1	WO			7/16	4	6					
29		VGOS	1	WO			3/4	2	8					
30		FW	1	WO			3/16	0	4					
31														
32	C	2fb#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
33														
34														
35			24	325	7/8"			0	3 1/4	H·H·H-H·H·N				
36			13	325	7/8"			0	2 1/2	H·H·H-H·H·N			M	
37			43	HW	1 3/4	15/16	3/16							
38			6	325	7/8			0	3	HHH-HHN				
39														
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

INST-9E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G9-16	GIRDER (60 × 25 1/4 × 94'-2 1/4)	

GIRDER

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT NO I95-1(22) 16
CONT. NO. 3 - NEW HAMPSHIRE APP
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY DML DATE 8-21-69 IN CHARGE B.K. [illegible]
CHECKED BY [illegible] DATE 8/5/69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 200

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		

REV. AS NOTED

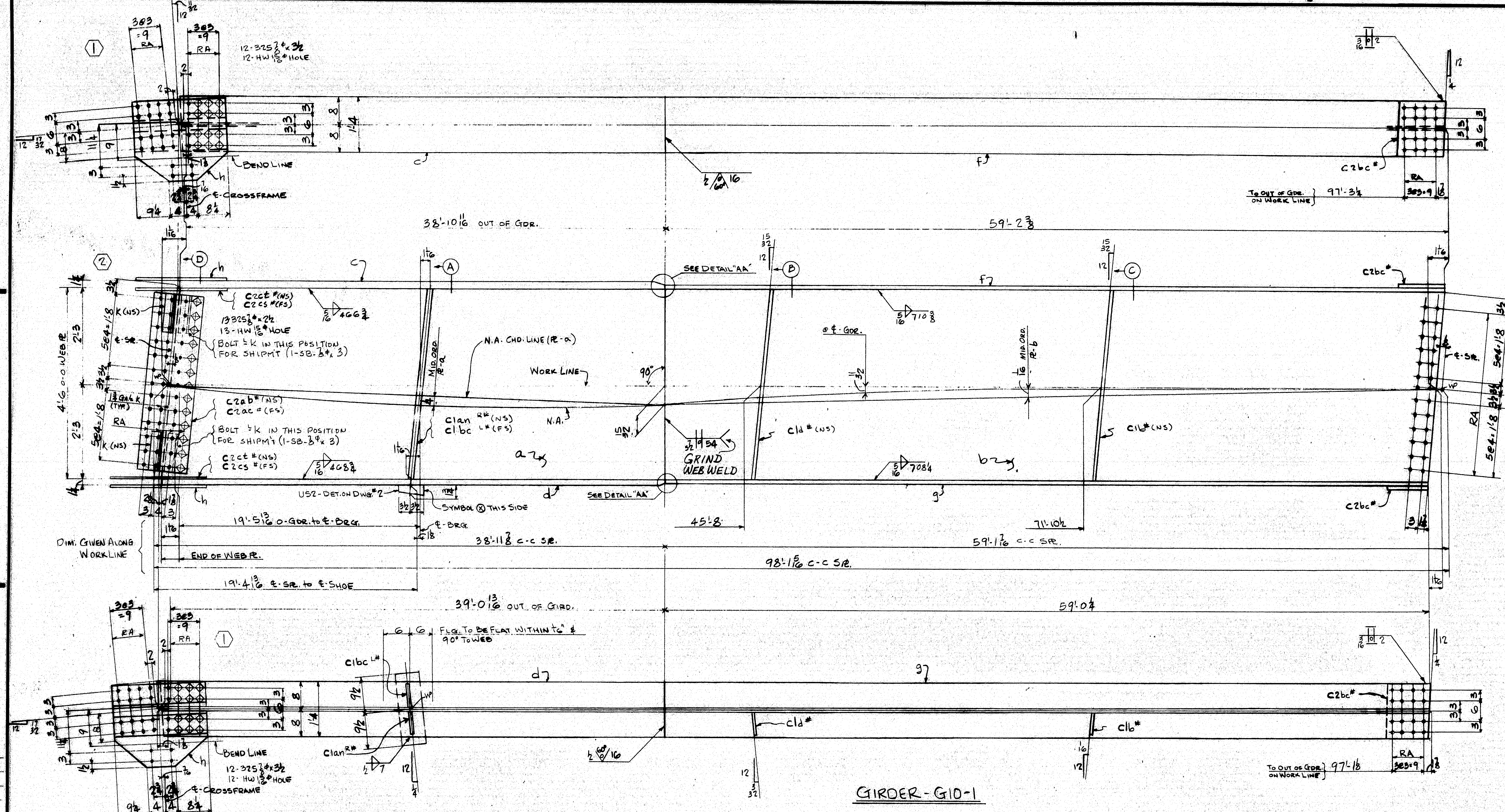
E5

∡ 2°-22'-42" - TAN A = 8.61840

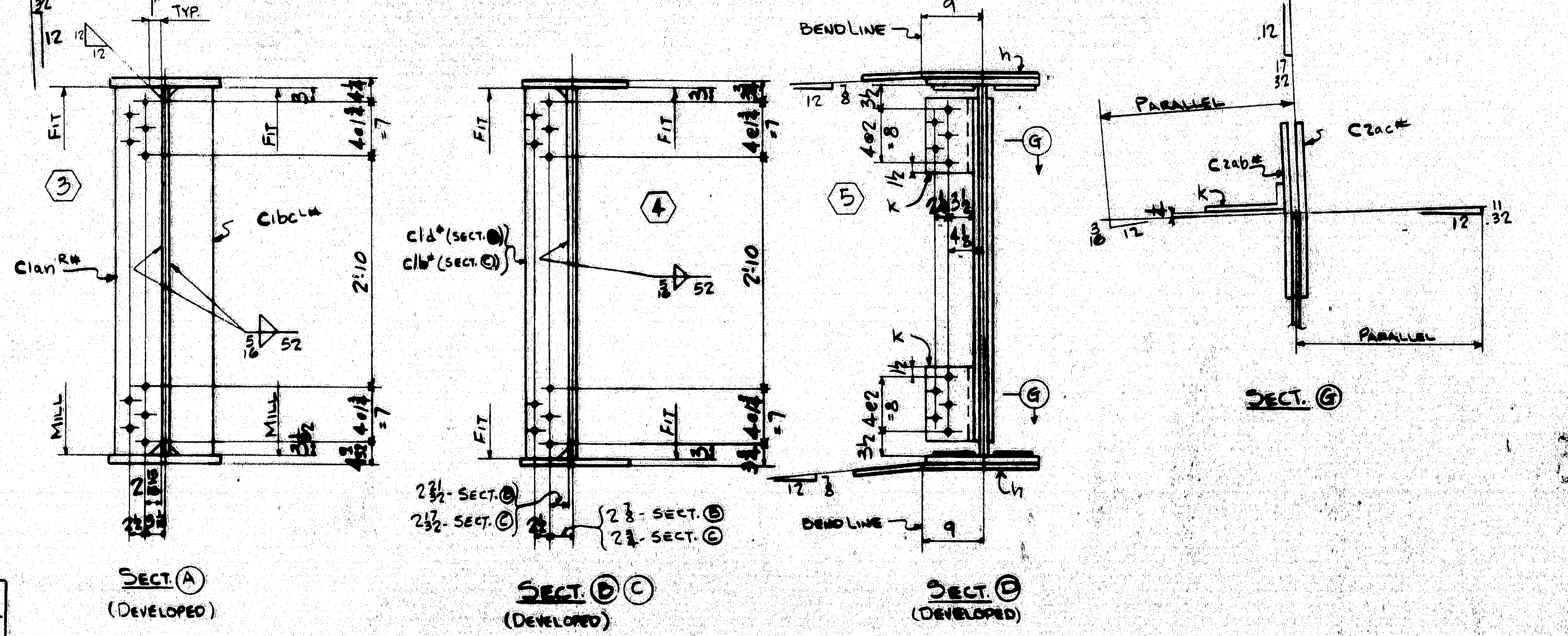
106-200

8

0 1 2 3 4 5 INCHES



GIRDER-G10-1

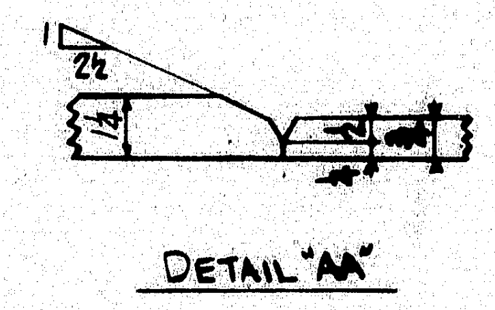


SECT. Ⓐ (DEVELOPED)

SECT. Ⓑ Ⓒ (DEVELOPED)

SECT. Ⓔ (DEVELOPED)

SECT. Ⓖ



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.	ITEM PAGE	LINE
1		ONE-GIRDER-G10-1												
2		a	1	PL	54		1/2	39	0 13/16	56×1/2	39	6 1/2	2	74
3		b	1	PL	54		7/16	59	2 3/8	56 1/2×7/16	59	7 1/4	2	71
4		c	1	PLU	16		1 1/4	38	10 13/16		39	1 3/4	3	79
5		d	1	PLU	16		1 1/4	39	1 1/16		39	1 3/4	3	79
6		f	1	PLU	16		3/4	59	2 17/32		59	4	4	71
7		g	1	PLU	16		3/4	59	0 13/32		59	4	4	71
8		h	2	PL	25 1/2		1/2	1	11 1/4	BENT	22	4	24	45
9		k	2	L	7	3 1/4	1/2	0	11	BENT CF 7×4×1/2	40	0	36	39
10	c	1an R#	1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
11	c	1bc L#	1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
12	c	1b#	1	BR	7		1/2	4	6	F2E	18	4	24	51 D
13	c	1d#	1	BR	7		1/2	4	6	F2E	18	4	24	51
14	c	2bc#	2	PL	16		1/2	1	0 27/32		20	2	24	46
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														
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				M	
30			37	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	392	4 1/4					
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														
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INST.-10W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G10-1	GIRDER (25 1/4 × 58 3/4 × 99'-4")	

PAY ITEM - 504.711

DOWELS IN ℞-US2 TO BE PROTECTED DURING SHIPMENT.

[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 I RED LEAD (UN)

GIRDER - G10-1

REVISION NO.	DATE	INT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
D1	10/31/69	BAL

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 8-14-69 IN CHARGE D.K. [illegible]
CHECKED BY C.B. DATE 9-5-69 SHOP NO. 2
CONTRACT CJ-6249-820 DRAWING NO. 201

107-1

	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.

E8

0 1 2 3 4 5 INCHES