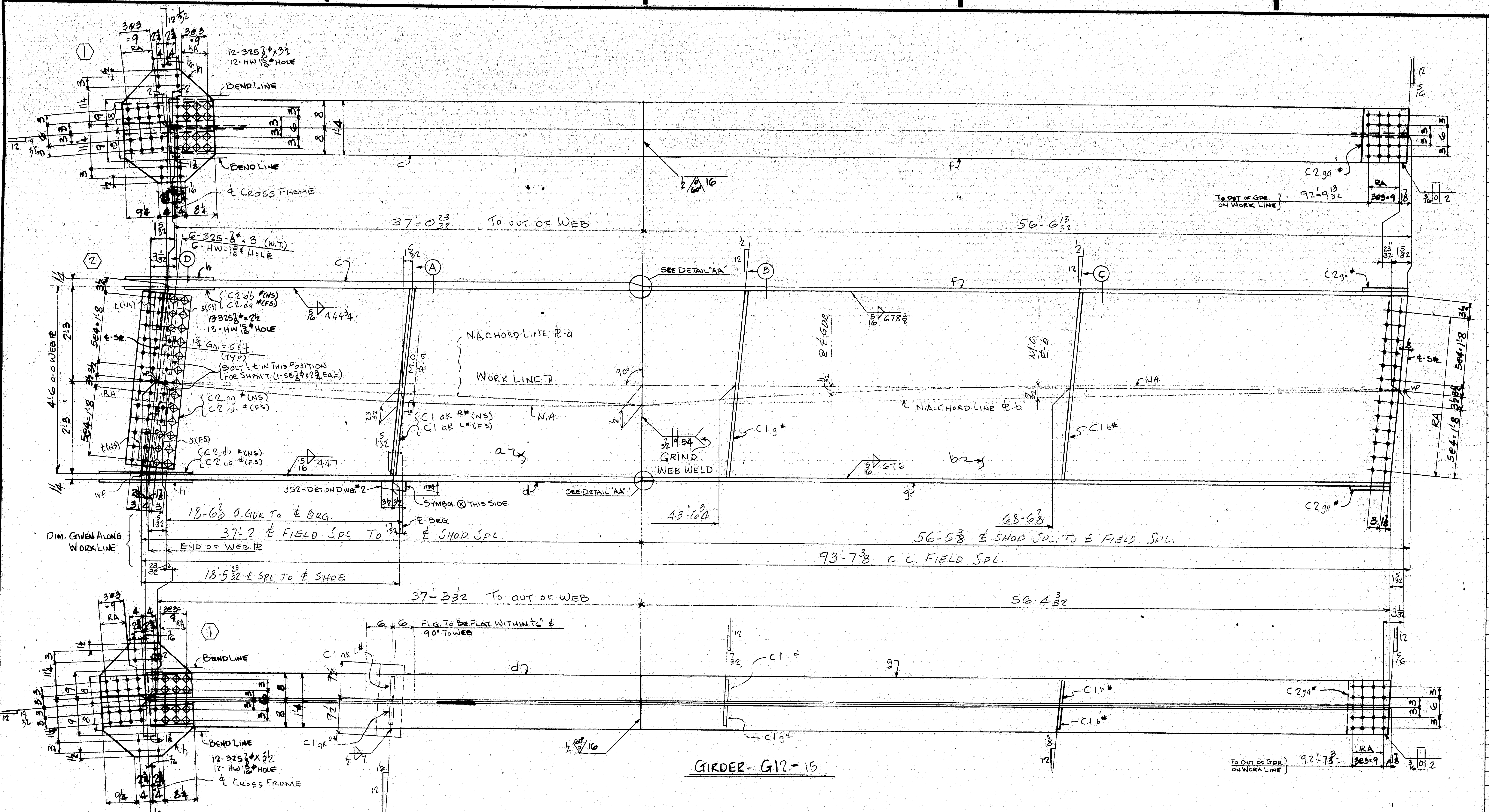
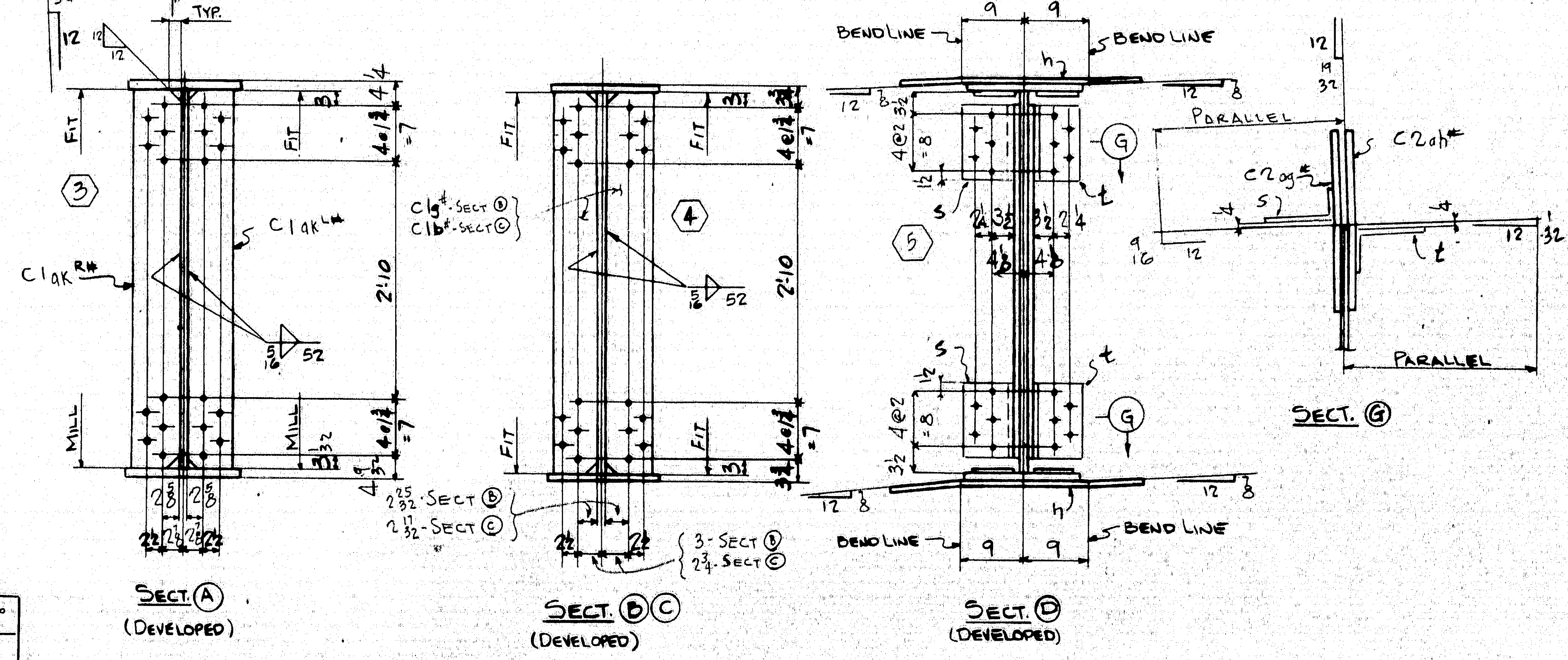
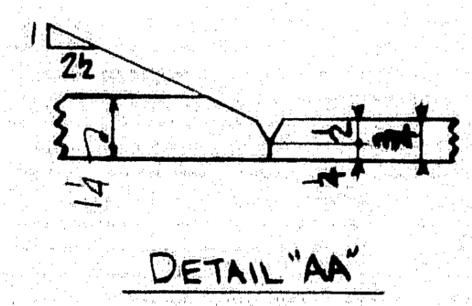


GIRDER-G12-15





LINE	ASSEMBLY MARK		NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1		ONE-GIRDER-G12-15												
2		a	1	PL	54		1/2	37	3 1/32	56 x 1/2	38	5 1/4	2	75
3		b	1	PL	54		7/16	56	6 13/32	56 1/2 x 7/16	57	10 3/4	2	73
4		c	1	PLU	16		1 1/4	37	0 3/4		37	7 1/4	3	78
5		d	1	PLU	16		1 1/4	37	3 1/16		37	7 1/4	3	78
6		f	1	PLU	16		3/4	56	6 5/8		57	1	4	74
7		g	1	PLU	16		3/4	56	4 5/16		57	1	4	74
8		h	2	PL	25 1/2		1/2	2	7 1/2	BENT	22	4	24	45
9		s	2	L	7	3 1/4	1/2	0	11	BENT CF 7x4x1/2 L	40	0	36	39
10		t	2	L	7	3 1/4	1/2	0	11	BENT CF 7x4x1/2 L	40	0	36	39
11	c	1ak L R#	1/1	BR	7 1/2		3/4	4	6 1/32	F2E, M2E	18	4	24	49
12	c	1g#	2	BR	7		1/2	4	6	F2E	18	4	24	51
13	c	1b#	2	BR	7		1/2	4	6	F2E	18	4	24	51
14	c	2ga#	2	PL	16		5/8	1	0 29/32				J	
15	c	2ag#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
16	c	2ah#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
17	c	2da#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
18	c	2db#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
19														
20														
21			2	SB	7/8ϕ			0	2 3/4				M	
22														
23														
24														
25														
26		US	1	UPPER SHOE						DET. ON DWG #2				
27			6	325	7/8ϕ			0	3					
28			13	325	7/8ϕ			0	2 1/2					
29			24	325	7/8ϕ			0	3 3/4				M	
30			43	HW	1 3/4	15/16	3/16							
31														
32														
33														
34		FWL	1	WD			5/16	374	4 1/2					
35		FWS	1	WD			5/16	52	0					
36		FW	1	WD			1/2	1	2					
37		SDS	1	WD			7/16	4	6					
38		V60S	1	WD			1/2	2	8					
39		SD	1	WD			3/16	0	8					
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

INST.-12E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G12-15	GIRDER (31 1/2 x 58 3/8 x 94'-11)	

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

PAY ITEM - 504.711

DOWELS IN ℞-US2 TO BE PROTECTED DURING SHIPMENT.

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

ALL OPEN HOLES - NP 3

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

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

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

MATERIAL A36 STEEL
BOLTS 7/8ϕ
OPEN HOLES 15/16ϕ
A325 FIELD BOLTS 7/8ϕ
SHOP CONTACT SURFACES NO PAINT
MILL - AS NOTED
WELD - AS NOTED
PAINT ONE COAT AASHO-M72-TYPE II RED LEAD (UN)
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 G12-15

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

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY JRP DATE 9-9-69 IN CHARGE B.K. BERTOLET
CHECKED BY C.B. DATE 9-22-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 247

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

E7

3

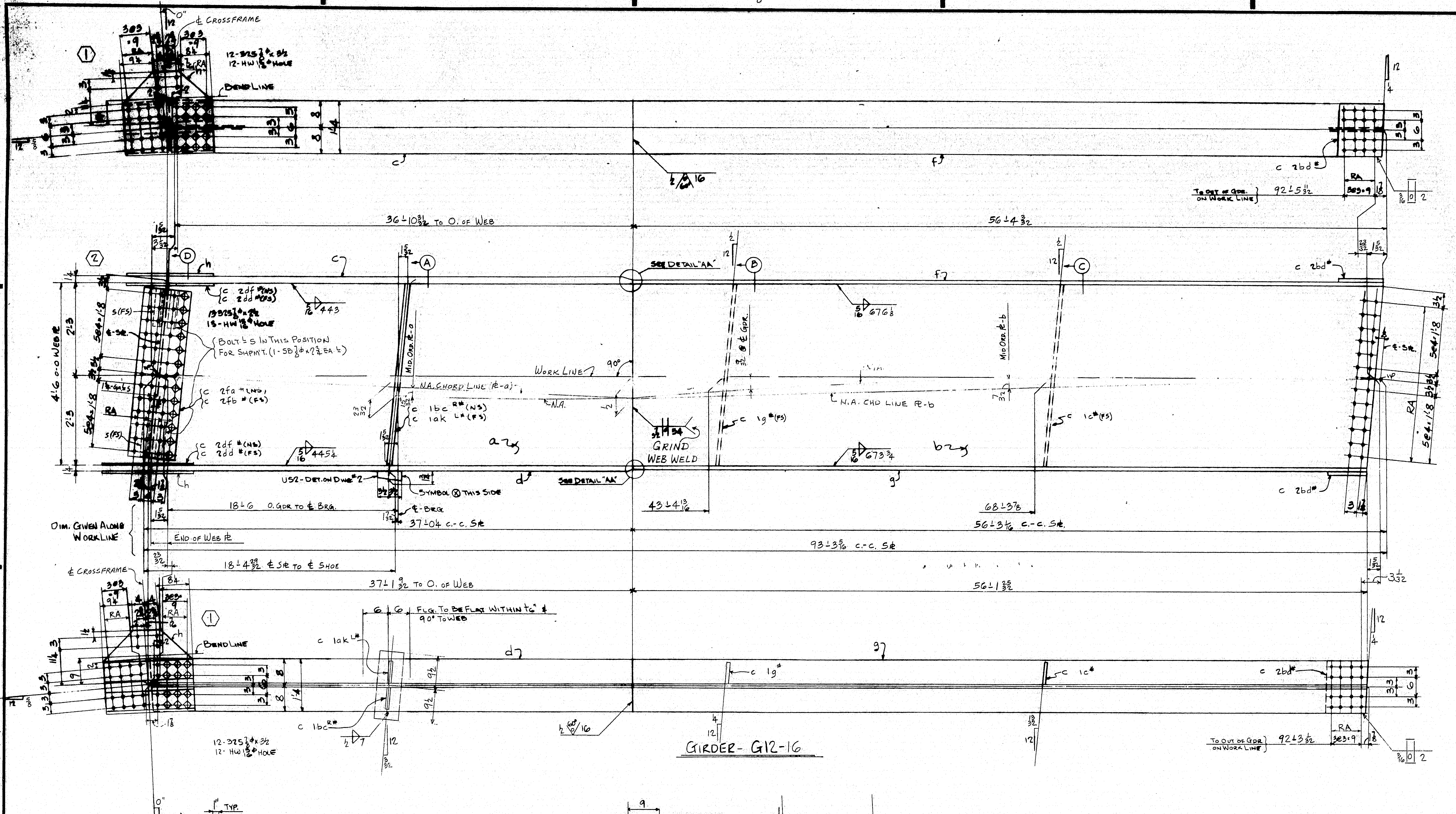
1

107-48

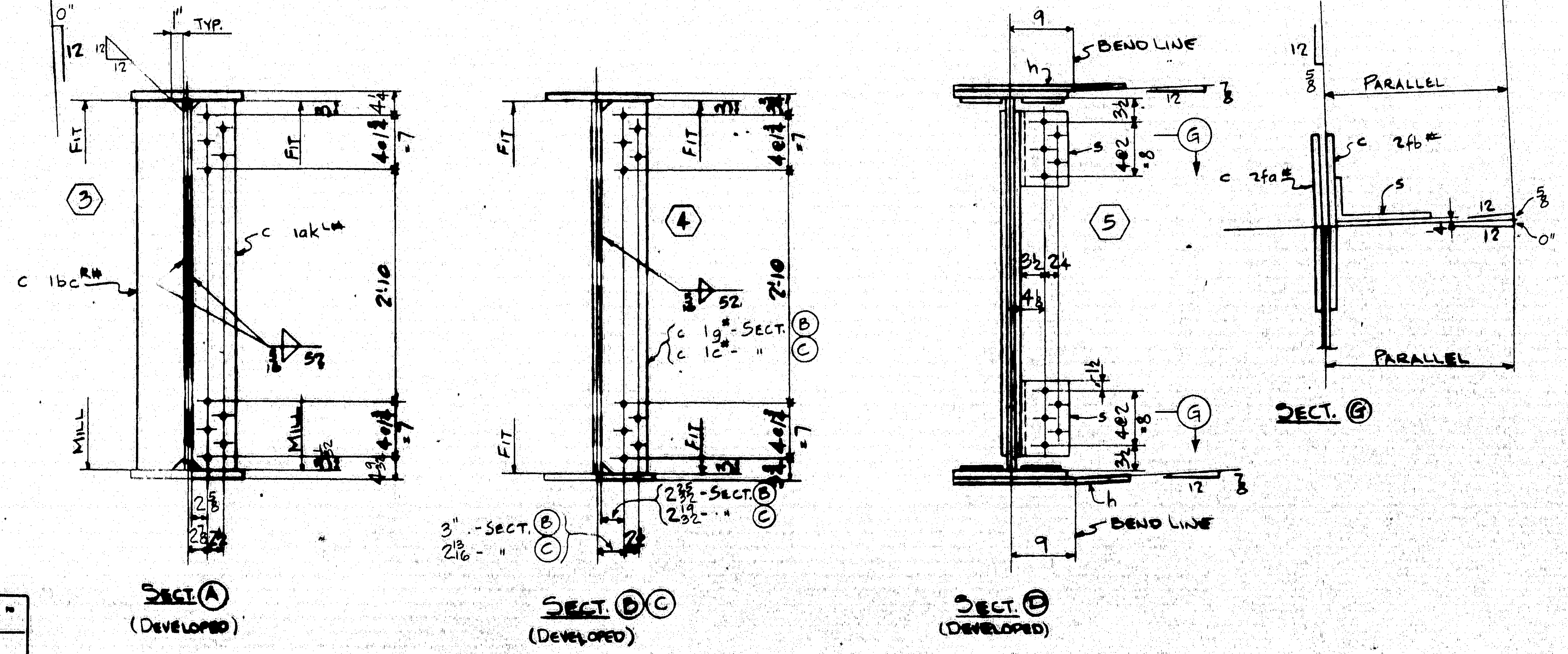
20

0 1 2 3 4 5 INCHES

Curve 36,0



GIRDER- G12-16

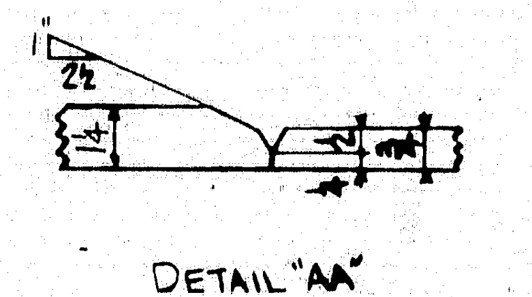


SECT. Ⓐ (DEVELOPED)

SECT. Ⓑ Ⓒ (DEVELOPED)

SECT. Ⓓ (DEVELOPED)

SECT. Ⓖ



DETAIL "AA"

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 - G12-16												
2	a	1	PL	54		1/2	37	1 5/16	56 × 1/2	38	5 1/4	2	75
3	b	1	PL	54		16	56	4 1/8	56 1/2 × 76	57	10 3/4	2	73
4	c	1	PLU	16		1 1/4	36	11		37	7 1/4	3	78
5	d	1	PLU	16		1 1/4	37	1 5/16					
6	f	1	PLU	16		3/4	56	4 1/4		57	1	4	74
7	g	1	PLU	16		3/4	56	2					
8	h	2	PL	25 1/2		1/2	1	11 3/4	BENT	22	4	24	45
9	s	2	∠	7	3 1/4	1/2	0	11	BENT CF-7×4×1/2	40	0	36	39
10	c 1bc R*	1	BR	7 1/2		3/4	4	6 1/2	MIE FIE	18	4	24	49
11	c 1ak L*	1	BR	7 1/2		3/4	4	6 1/2	MIE FIE	18	4	24	49
12	c 1g*	1	BR	7		1/2	4	6	F2E	18	4	24	51
13	c 1c*	1	BR	7		1/2	4	6	F2E	18	4	24	51
14	c 2bd*	2	PL	16		5/8	1	0 27/32				J	
15	c 2fa*	1	PLW	13		3/8	4	2	BENT	21	1	24	48
16	c 2fb*	1	PLW	13		3/8	4	2	BENT	21	1	24	48
17	c 2df*	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
18	c 2dd*	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
19													
20													
21		2	SB	7/8ϕ			0	2 3/4				M	
22													
23													
24													
25													
26	US2	1	UPPER SHOE						DET. ON DWG. #2				
27													
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													
32													
33													
34	FWL	1	WD			5/16	373	0 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	V6DS	1	WD			1/2	2	8					
39	SD	1	WD			3/16	0	8					
40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													

INST.-12E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G12-16	GIRDER (58 3/4 × 25 1/2 × 94-6 7/8)	

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

PAY ITEM - 504.711

DOWELS IN ℞ - US2 TO BE PROTECTED DURING SHIPMENT.

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

ALL OPEN HOLES = [illegible]

NO [illegible] WELDING PERMITTED UNLESS SHOWN OR INCORPORATED IN FINAL WELD.

USE [illegible] ELECTRODES [illegible] FOR WELDING.

[illegible]

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

GIRDER- G12-16

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

REVISION

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

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT. No I-95-1(22)16
CONT. No. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY CCM DATE 8-27-69 IN CHARGE B.K. BERTOLET
CHECKED BY C.B. DATE 9-23-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 248

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

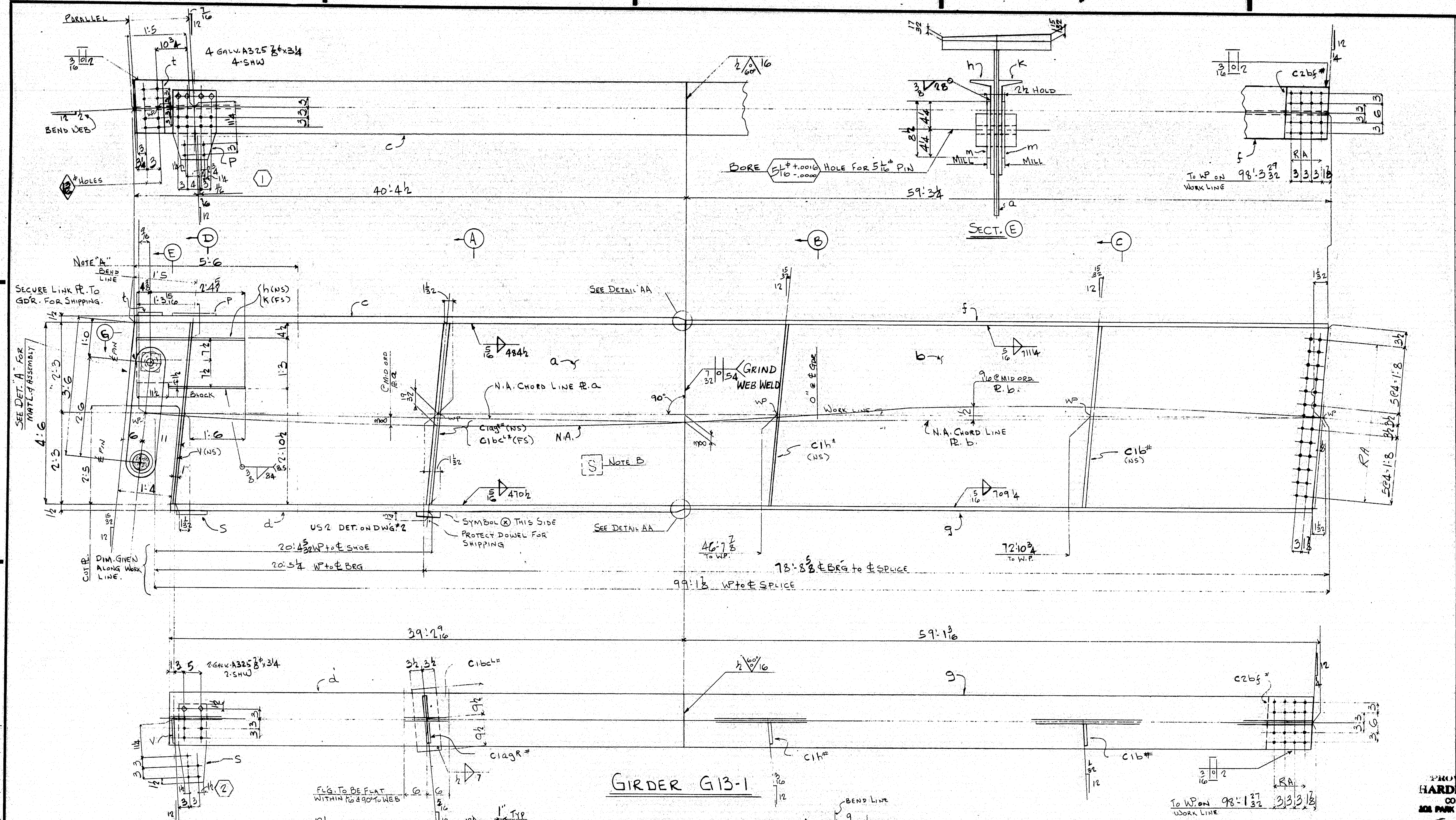
E7 GD5

3 1

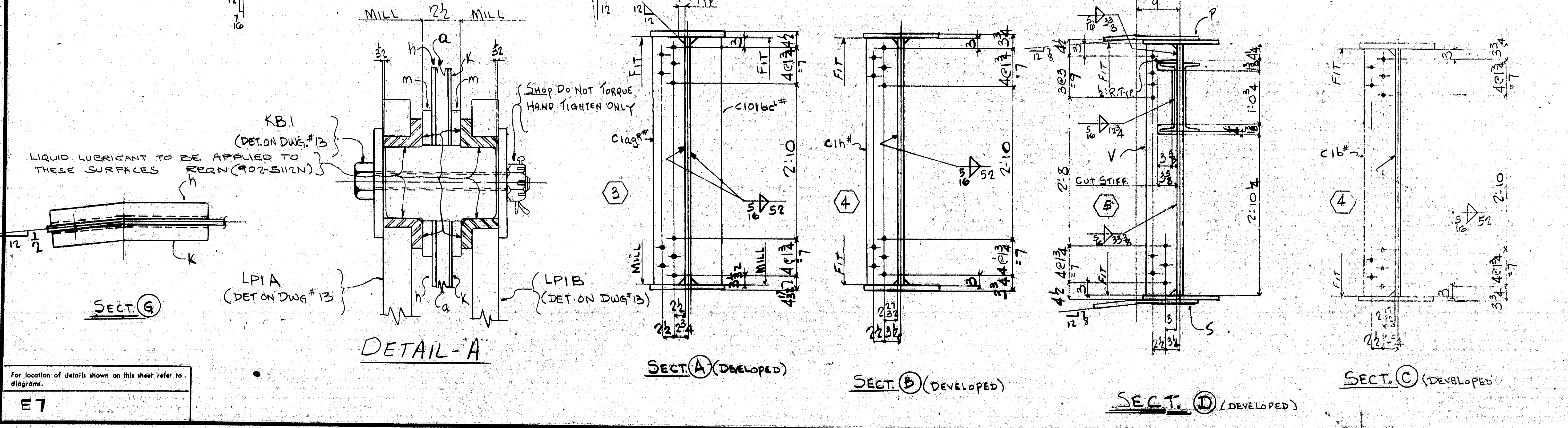
187-49

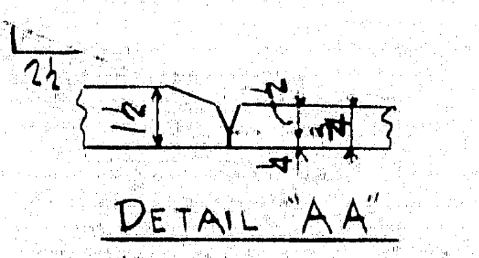
OCT 20

0 1 2 3 4 5 INCHES



GIRDER G13-1





DETAIL "AA"

NOTE B - SHOP TO USE REMOVABLE PAINT FOR STENCILING.

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

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 OR BOLTS - 7/8⌀
OPEN HOLES 15/16⌀ (U.N)
A325 FIELD BOLTS
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										

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 G13-1										
2		a	1	PL	54	1/2		40	5 1/2	BENT 56×1/2	40	8 1/2	53	01
3		b	1	PL	54	7/16		59	3 1/4	56 1/2×7/16	59	7 1/2	26	04
4		c	1	PLU	16		1 1/2	40	4 3/4		40	7 1/2	26	09
5		d	1	PLU	16		1 1/2	39	2 9/16		39	2 1/2	26	10
6		f	1	PLU	16		3/4	59	3 7/16		59	4 1/4	26	15
7		g	1	PLU	16		3/4	59	1 3/8		59	4 1/4	26	15
8		h	1	C	15	40		2	9	BENT	44	8	24	42
9		k	1	C	15	40		2	9	BENT	44	8	24	42
10		m	2	PL	8 1/2		15/32	0	8 1/2	MIS (C.F 3/4" PL.)			J	
11		P	1	PL	13		1/2	1	8 1/4	BENT	20	7	24	34
12		S	1	PL	8		1/2	1	11 1/4	BENT CF10 × 1/2	13	0 1/4	24	35
13		t	1	PL	8		1 15/32 × 1 17/32	1	4	CF 8 1/2 × 1 5/8			J	
14		V	1	BR	7		1/2	4	6	F2E	18	4	24	51
15	c	1ag R#	1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
16	c	1bc L#	1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
17	c	1h#	1	BR	7		1/2	4	6	F2F	18	4	24	51
18	c	1b#	1	BR	7		1/2	4	6	F2E	18	4	24	51
19	c	2bf#	2	PL	16		3/4	1	0 27/32		20	0	24	43
20														
21														
22														
23														
24														
25		US2	1	UPPER SHOE						DET. ON DWG. 2				
26														
27		FW	1	WD			3/8	20	4					
28		FWL	1	WD			5/16	395	11					
29		FWS	1	WD			5/16	52	0					
30		FW	1	WD			1/2	1	2					
31		SDS	1	WD			7/16	4	6					
32		V60S	1	WD			3/4	2	8					
33		SD	1	WD			3/16	1	0					
34														
35														
36														
37														
38		LP1A	1	LINK PL. ASSEMBLY						DET. ON DWG. 13				
39		LP1B	1	LINK PL. ASSEMBLY										
40		KB1	1	KEEPER BOLT										
41		P1	1	PIN										
42														
43														
44			6	GALV. 325	7/8⌀			0	3 1/4				902-61	68N
45			6	HW	1 3/4	15/16	3/16						902-61	68N
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

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

INST. - 13W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G13-1	GIRDER (59×24×99'-9)	

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
STRUCTURE
PROJECT No. I-95-1(22)16
CONT. No. 3 NEW HAMPSHIRE APP.
STRUCTURAL STEEL

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

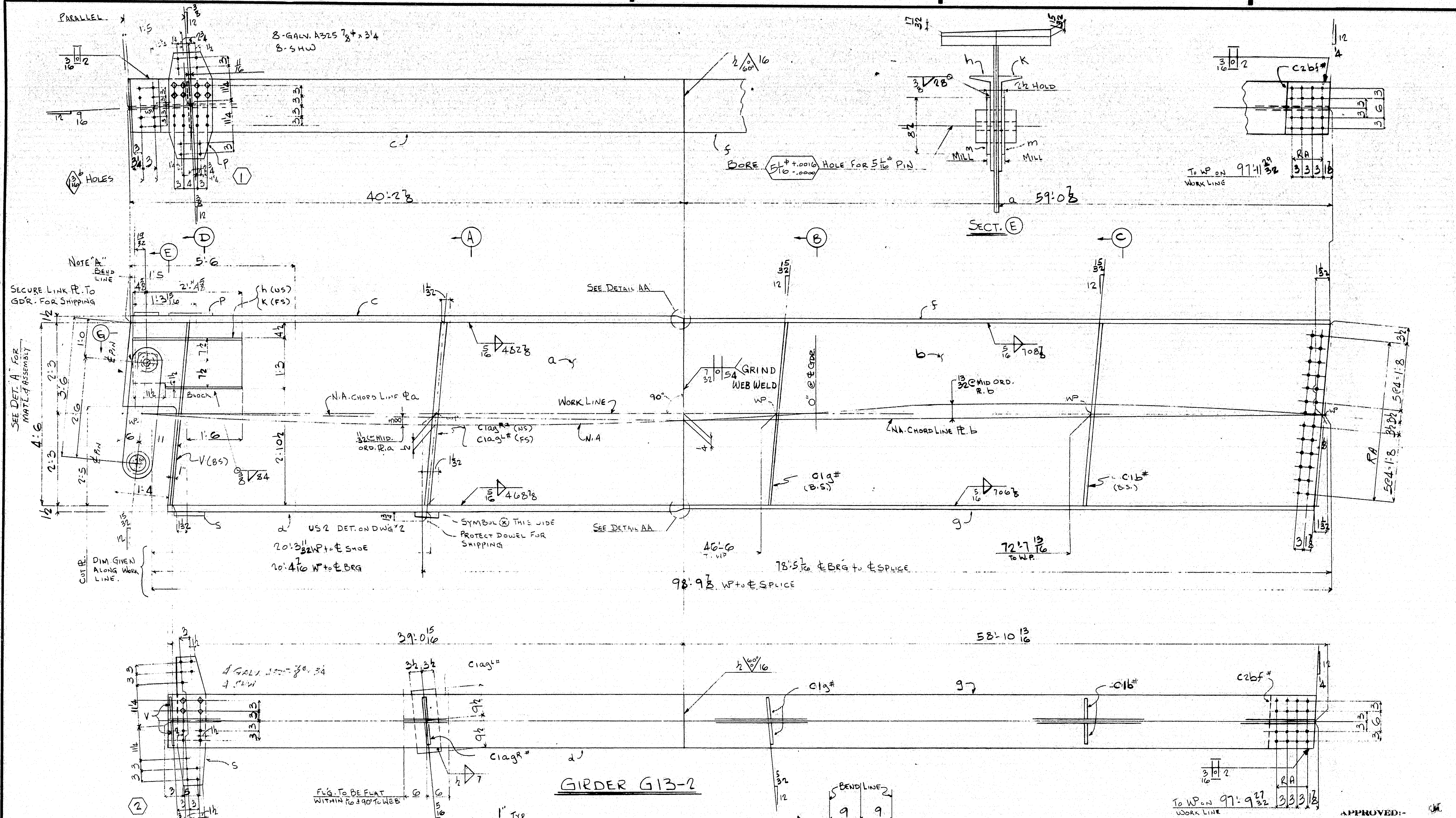
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RDN DATE 8-21-69 IN CHARGE B.K. BERTOLET
CHECKED BY FRG DATE 9-5-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 249

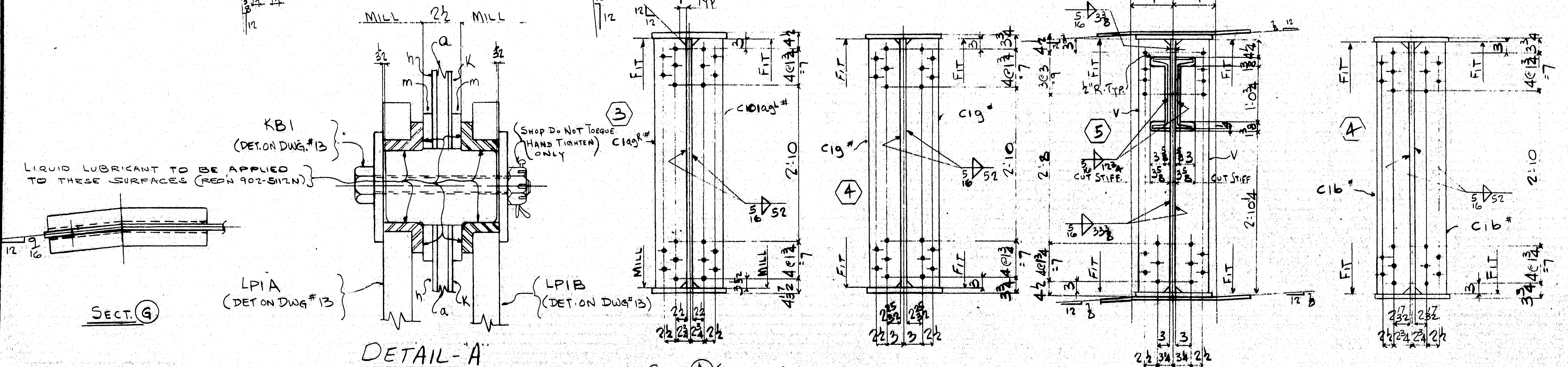
For location of details shown on this sheet refer to diagrams.

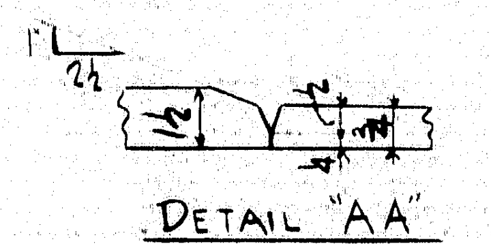
E7

3 1

107-30







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

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

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

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				ONE GIRDER G13-2										
2		a	1	PL	54		1/2	40	3 7/8	BENT 56 × 1/2	40	8 1/2	53	01
3		b	1	PL	54		7/16	59	0 7/8	56 1/2 × 7/16	59	7 1/2	26	04
4		c	1	PLU	16		1 1/2	40	3 7/8		40	7 1/2	26	09
5		d	1	PLU	16		1 1/2	39	0 15/16		39	2 1/2	26	10
6		f	1	PLU	16		3/4	59	1 1/16		59	4 1/4	26	15
7		g	1	PLU	16		3/4	58	11		59	4 1/4	26	15
8		h	1	C	15	40		2	9	BENT	44	8	24	42
9		k	1	C	15	40		2	9	BENT	44	8	24	42
10		m	2	PL	8 1/2		15/32	0	8 1/2	MIS (C.F 3/4" PL.)			J	
11		p	1	PL	13		1/2	2	7 3/4	BENT	20	7	24	34
12		s	1	PL	8 1/2		1/2	3	1 3/4	BENT CF10 × 1/2	13	0 1/4	24	35
13		t	1	PL	8		15/32 × 17/32	1	4	CF8 1/2 × 1 5/8			J	
14		v	2	BR	7		1/2	4	6	F2E	18	4	24	51
15														
16	c	1ag L R #	1/1	BR	7 1/2		3/4	4	6 3/32	MIE F1E	18	4	24	49
17	c	1g#	2	BR	7		1/2	4	6	F2E	18	4	24	51
18	c	1b#	2	BR	7		1/2	4	6	F2E	18	4	24	51
19	c	2bf#	2	PL	16		3/4	1	0 27/32		20	0	24	43
20														
21														
22														
23														
24														
25		US2	1	UPPER SHOE						DET. ON DWG. 2				
26														
27		FW	1	WD			3/8	20	4					
28		FWL	1	WD			5/16	394	7/8					
29		FWS	1	WD			5/16	68	11					
30		FW	1	WD			1/2	1	2					
31		SDS	1	WD			7/16	4	6					
32		V60S	1	WD			3/4	2	8					
33		SD	1	WD			3/16	1	0					
34														
35														
36														
37														
38		LP1A	1	LINK PL. ASSEMBLY						DET. ON DWG. 13				
39		LP1B	1	LINK PL. ASSEMBLY						↓				
40		KB1	1	KEEPER BOLT						↓				
41		P1	1	PIN						↓				
42														
43														
44			12	GALV. 325	7/8φ			0	3 1/4				902-61	68N
45			12	HW	1 3/4	15/16	3/16						902-61	68N
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

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

INST.- 13W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G13-2	GIRDER (59 × 38 × 99'-6 1/2)	

PAY ITEM-504.711

GIRDER

MATERIAL - A36 STEEL
RIVETS OR BOLTS - 7/8φ
OPEN HOLES 15/16φ (U.N)
A325 FIELD BOLTS
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										

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

REVISION

CUSTOMER
MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
STRUCTURE
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 8-22-69 IN CHARGE B.K. BERTOLET
CHECKED BY FRG DATE 9-5-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 250

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

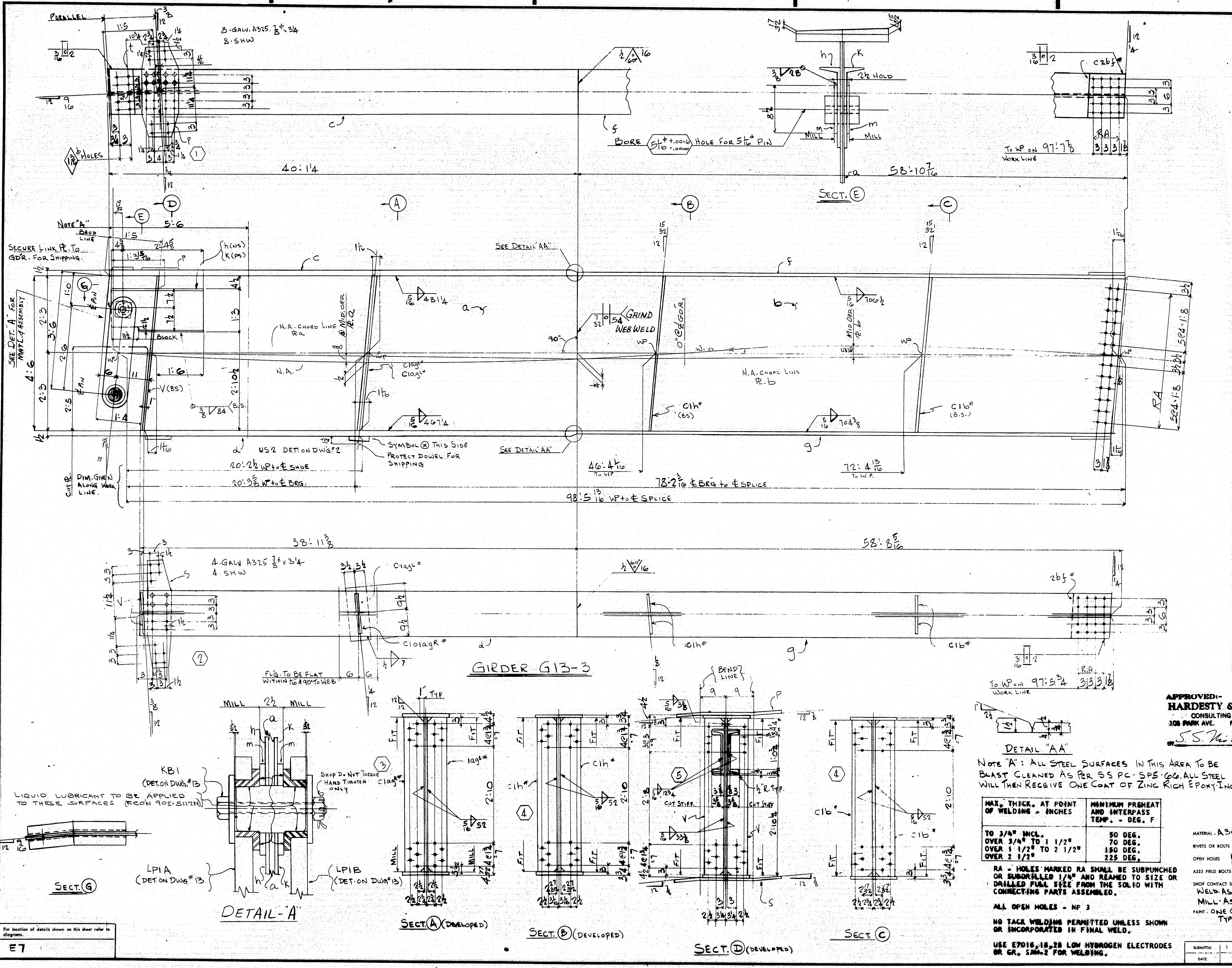
E7

3 1

107-51

35453 (Rev. C 4-65)

OCT 20 1969



APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
108 PARK AVE. NEW YORK
BY S. S. [illegible] OCT 8 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

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

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 G13-3										
2	a	1	PL	54		½	40	2¼	BENT 56×½	40	8½	53	01
3	b	1	PL	54		7/16	58	10⅝	56½×7/16	59	7½	26	04
4	c	1	PLU	16		1½	40	1½		40	7	26	09
5	d	1	PLU	16		1½	38	11⅝		39	2½	26	10
6	f	1	PLU	16		¾	58	10⅝		59	4¼	26	15
7	g	1	PLU	16		¾	58	8½		59	4¼	26	15
8	h	1	C	15	40		2	9	BENT	44	8	24	42
9	k	1	C	15	40		2	9	BENT	44	8	24	42
10	m	2	PL	8½		15/32	0	8½	MIS (C.F ¾" ℞.)			J	
11	p	1	PL	13		½	2	7¾	BENT	20	7	24	34
12	s	1	PL	8½		½	3	1¾	BENT CF10×½	13	0¼	24	35
13	t	1	PL	8		1 15/32×17/32	1	4	CF8½×1⅝			J	
14	v	2	BR	7		½	4	6	F2E	18	4	24	51
15													
16	c $1ag^{R}_{L}$#	1/1	BR	7½		¾	4	6 1/32	MIE F1E	18	4	24	49
17	c 1h#	2	BR	7		½	4	6	F2E	18	4	24	51
18	c 1b#	2	BR	7		½	4	6	F2E	18	4	24	51
19	c 2bf#	2	PL	16		¾	1	0 27/32		20	0	24	43
20													
21													
22													
23													
24													
25	US2	1	UPPER SHOE						DET. ON DWG. 2				
26													
27	FW	1	WD			⅜	20	4					
28	FWL	1	WD			5/16	393	2¾					
29	FWS	1	WD			5/16	68	11					
30	FW	1	WD			½	1	2					
31	SDS	1	WD			7/16	4	6					
32	V60S	1	WD			¾	2	8					
33	SD	1	WD			3/16	1	0					
34													
35													
36													
37													
38	LP1A	1	LINK ℞. ASSEMBLY						DET. ON DWG. 13				
39	LP1B	1	LINK ℞. ASSEMBLY						↓				
40	KB1	1	KEEPER BOLT						↓				
41	P1	1	PIN						↓				
42													
43													
44		12	GALV. 325	⅞⌀			0	3¼				902-61	68N
45		12	HW	1¾	15/16	3/16						902-61	68N
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													

INST. - 13W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G13-3	GIRDER (59×32×99'-1)	

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
~~STRUCTURE~~
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 8-25-69 IN CHARGE B. K. BERTOLET
CHECKED BY PG DATE 9-5-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 251

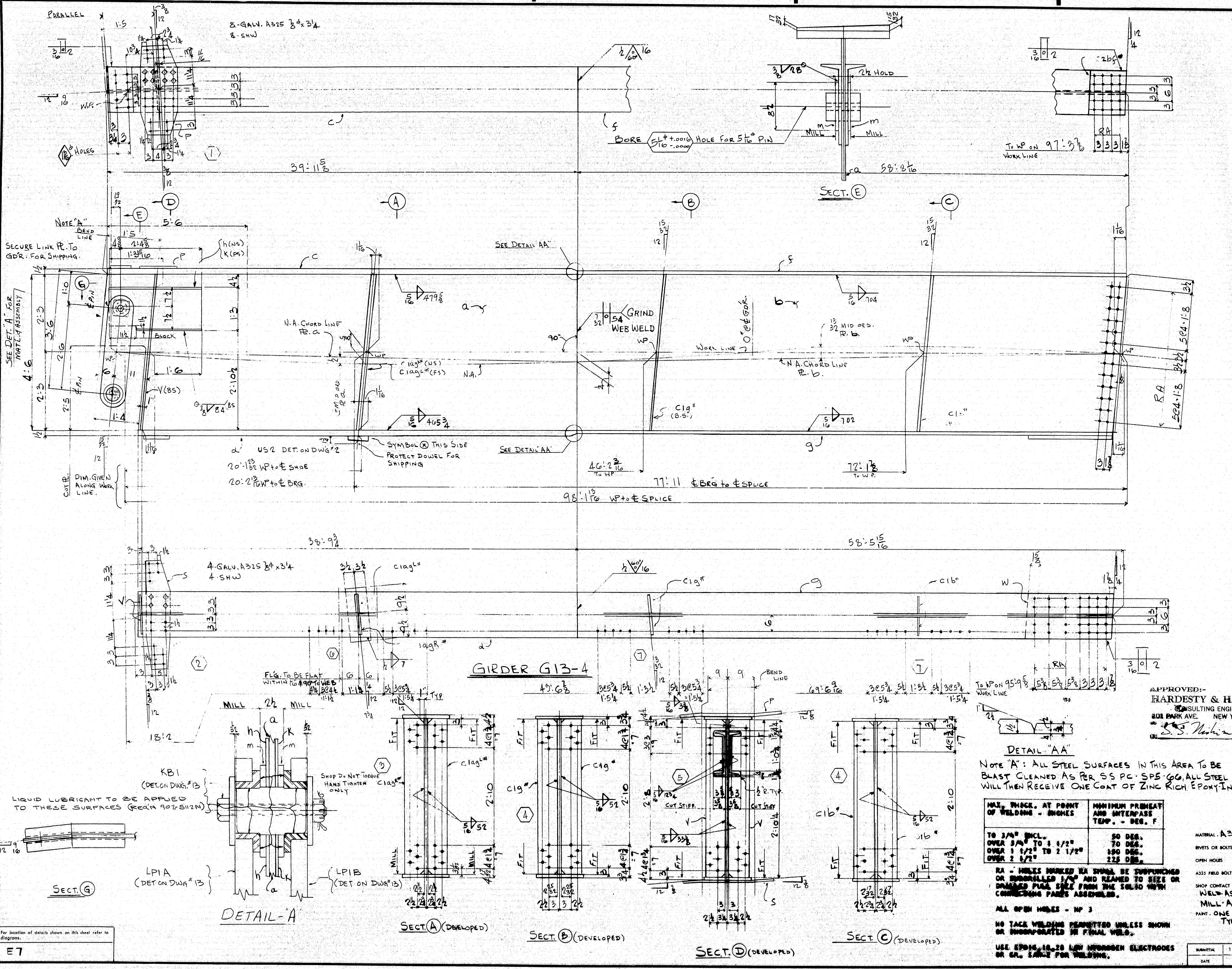
For location of details shown on this sheet refer to diagrams.
E7

3 1

107-52

35453 (Rev.C 4-65)

OCT 20 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 G13-4										
2	a	1	PL	54		1/2	40	0 5/8	BENT 56×1/2	40	8 1/2	53	01
3	b	1	PL	54		7/16	58	8 1/16	56 1/2×7/16	59	7 1/2	26	04
4	c	1	PLU	16		1 1/2	39	11 3/8		40	2 1/2	2	01
5	d	1	PLU	16		1 1/2	38	9 3/4		39	2 1/2	26	10
6	f	1	PLU	16		3/4	58	8 1/4		59	4 1/4	26	15
7	g	1	PLU	16		3/4	58	6 1/8		59	4 1/4	26	15
8	h	1	C	15	40		2	9	BENT	44	8	24	42
9	k	1	C	15	40		2	9	BENT	44	8	24	42
10	m	2	PL	8 1/2		15/32	0	8 1/2	MIS (C.F. 3/4" ℞.)			J	
11	p	1	PL	13		1/2	2	7 3/4	BENT	20	7	24	34
12	s	1	PL	8 1/2		1/2	3	1 3/4	BENT CF10×1/2	13	0 1/4	24	35
13	t	1	PL	8		1 17/32×15/32	1	4	CF8 1/2×1 5/8			J	
14	v	2	BR	7		1/2	4	6	F2E	18	4	24	51
15	w	1	PL	16		3/4	2	4 15/16		20	0	24	43
16	c 1ag R/L #	1/1	BR	7 1/2		3/4	4	6 1/32	MIE F1E	18	4	24	49
17	c 1g #	2	BR	7		1/2	4	6	F2E	18	4	24	51
18	c 1b #	2	BR	7		1/2	4	6	F2E	18	4	24	51
19	c 26f #	1 D1	PL	16		3/4	1	0 27/32		20	0	24	43
20													
21													
22													
23													
24													
25	US2	1	UPPER SHOE						DET. ON DWG. 2				
26													
27	FW	1	WD			3/8	20	4					
28	FWL	1	WD			5/16	391	10 7/8					
29	FWS	1	WD			5/16	68	11					
30	FW	1	WD			1/2	1	2					
31	SDS	1	WD			7/16	4	6					
32	V60S	1	WD			3/4	2	8					
33	SD	1	WD			3/16	1	0					
34													
35													
36													
37													
38	LP1A	1	LINK ℞. ASSEMBLY						DET. ON DWG. 13				
39	LP1B	1	LINK ℞. ASSEMBLY										
40	KB1	1	KEEPER BOLT										
41	P1	1	PIN										
42													
43													
44		12	GALV. 325	7/8φ			0	3 1/4				902-61	68N
45		12	HW	1 3/4	15/16	3/16						902-61	68N
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													

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

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

USE E7016, 18, 28 LOW HYDROGEN ELECTRODES OR EQ. SAME FOR WELDING.

MATERIAL - A36 STEEL
RIVETS OR BOLTS - 7/8φ
OPEN HOLES 15/16φ (U.N)
A325 FIELD BOLTS
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.
S. S. Nishimura OCT 8 1969

INST.-13W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G13-4	GIRDER (59×32×98'-9)	

PAY ITEM-504.711

GIRDER

NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
D1	11-5-69	FEG

REVISION

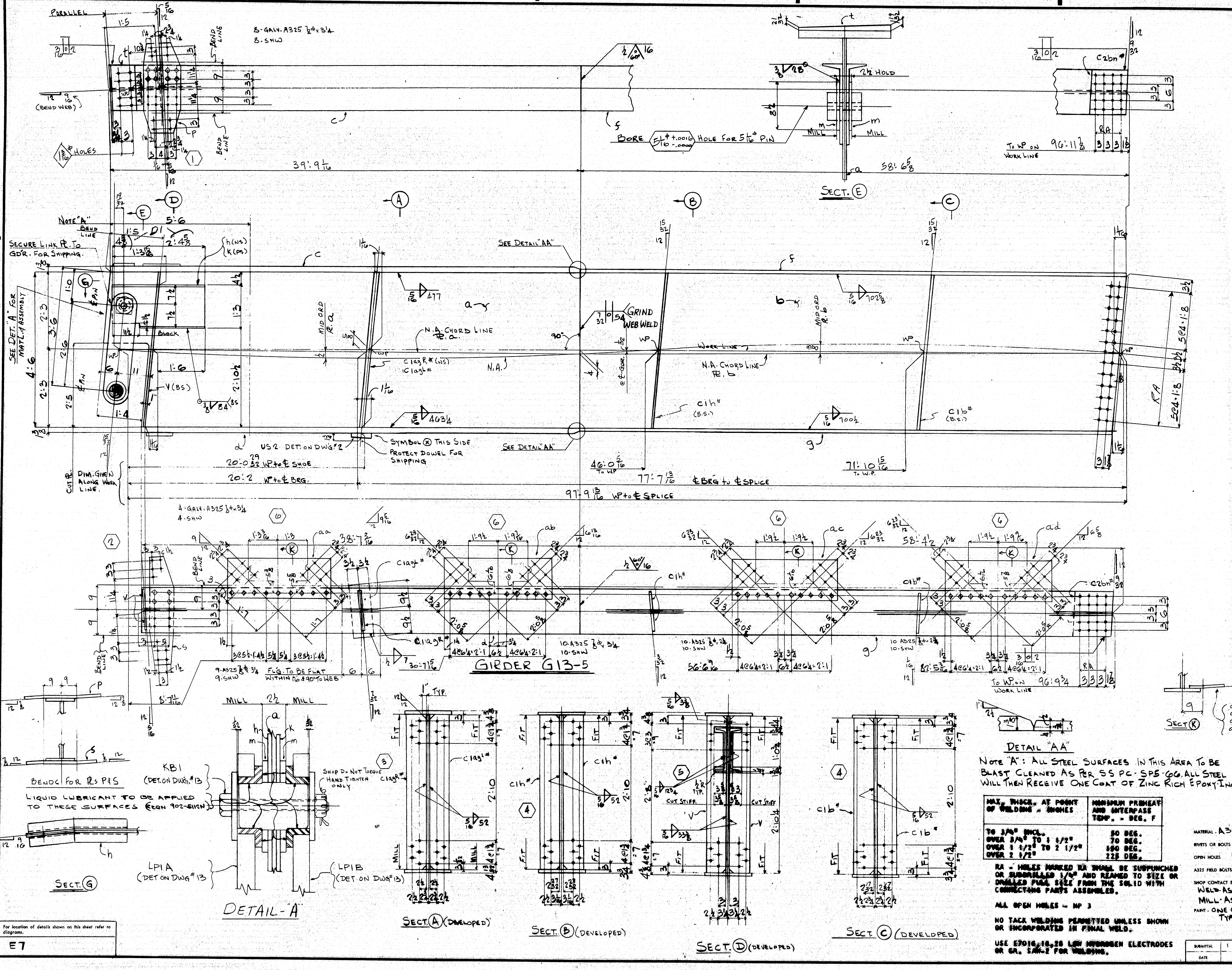
SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
STRUCTURE 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 8-26-69 IN CHARGE B.K. BERTOLET
CHECKED BY FEG DATE 9-5-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 252

E7

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

3 1 187-53 OCT 20 1969



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

E7

DETAIL "AA"

NOTE "A": ALL STEEL SURFACES IN THIS AREA TO BE BLAST CLEANED AS PER SS PC-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

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 OR BOLTS - 7/8φ
OPEN HOLES 15/16φ (U.N.)
A325 FIELD BOLTS
SHOP CONTACT SURFACES - NO PAINT
WELD - AS NOTED
MILL - 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	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1				ONE GIRDER G13-5										
2		a	1	PL	54		1/2	39	10 1/16	BENT 56 × 1/2	40	8 1/2	53	01
3		b	1	PL	54		7/16	58	6 5/8	56 1/2 × 7/16	59	7 1/2	26	04
4		c	1	PLU	16		1 3/8	39	9 1/4		40	1	3	74
5		d	1	PLU	16		1 3/8	38	7 3/16		38	8	26	11
6		f	1	PLU	16		3/4	58	6 13/16		59	4 1/4	26	15
7		g	1	PLU	16		3/4	58	4 1/16		59	4 1/4	26	15
8		h	1	C	15	40		2	9	BENT	44	8	24	42
9		k	1	C	15	40		2	9	BENT	44	8	24	42
10		m	2	PL	8 1/2		15/32	0	8 1/2	MIS (C.F. 3/4" PL.)			J	
11		p	1	PL	13		1/2	2	7 3/4	BENT	20	7	24	34
12		s	1	PL	8 1/2		1/2	3	1 3/4	BENT CF10 × 1/2	13	0 1/4	24	35
13		t	1	PL	8		1 19/32 × 21/32	1	4	C.F. 1 3/4 PL			J	
14		v	2	BR	7		1/2	4	6	F2E	18	4	24	51
15														
16	c	1ag R/L #	1/1	BR	7 1/2		3/4	4	6 1/32	M1E F1E	18	4	24	49
17	c	1h#	2	BR	7		1/2	4	6	F2E	18	4	24	51
18	c	1b#	2	BR	7		1/2	4	6	F2E	18	4	24	51
19	c	2bn#	2	PL	16		5/8	1	0 7/8				J	
20		aa	1	PL	14 1/2		5/8	3	10 1/2		26	0	28	19
21		ab	1	PL	14 1/2		5/8	4	11 1/2		26	0	28	19
22		ac	1	PL	14 1/2		5/8	4	11 1/2		26	0	28	19
23		ad	1	PL	14 1/2		5/8	4	11 1/2		26	0	28	19
24														
25		US2	1	UPPER SHOE						DET. ON DWG. 2				
26														
27		FW	1	WD			3/8	20	4					
28		FWL	1	WD			5/16	390	6 3/4					
29		FWS	1	WD			5/16	68	11					
30		FW	1	WD			1/2	1	2					
31		SDS	1	WD			7/16	4	6					
32		V60S	1	WD			3/4	2	8					
33		SD	1	WD			3/16	1	0					
34														
35														
36														
37														
38		LP1A	1	LINK PL. ASSEMBLY						DET. ON DWG. 13				
39		LP1B	1	LINK PL. ASSEMBLY										
40		KB1	1	KEEPER BOLT										
41		P1	1	PIN										
42			20	325	7/8φ			0	2 3/4					
43			19	325	7/8φ			0	3 1/4				M	
44			39	HW	1 3/4	15/16	3/16							
45			12	GALV. 325	7/8φ			0	3 1/4				902-61	68N
46			12	HW	1 3/4	15/16	3/16						902-	[illegible]
47														
48														
49														
50														
51														
52														
53														
54														
55														

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

INST. - 13W

REQUIRED LIST			
QTY.	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G13-5	GIRDER (59 × 38 × 98'-5)	

PAY ITEM - 504.711

GIRDER

NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1	11-7-69	FRG

REVISION

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

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

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

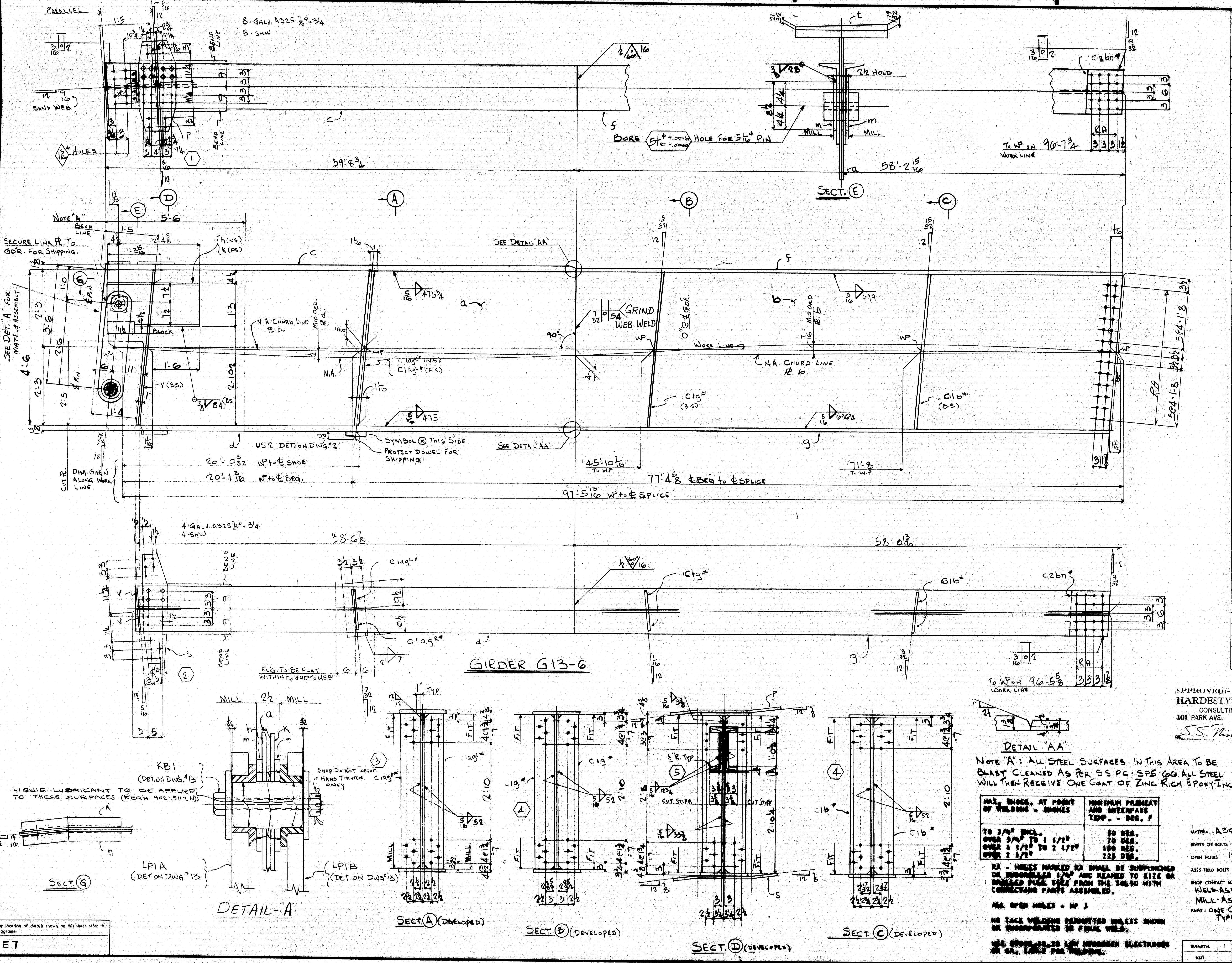
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RDN DATE 8-26-69 IN CHARGE B.K. BERTOLET
CHECKED BY FRG DATE 9-9-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 253

3 1

107-54

35453 (Rev. C 4-63)

OCT 20 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 G13-6										
2	a	1	PL	54		1/2	39	9 3/4	BENT 56 x 1/2	40	8 1/2	53	01
3	b	1	PL	54		7/16	58	2 15/16	56 1/2 x 7/16	59	7 1/2	26	04
4	c	1	PLU	16		1 3/8	39	8 15/16		40	1	3	74
5	d	1	PLU	16		1 3/8	38	6 7/8		38	8	26	11
6	f	1	PLU	16		3/4	58	3 1/8		59	4 1/4	26	15
7	g	1	PLU	16		3/4	58	1		59	4 1/4	26	15
8	h	1	C	15	40		2	9	BENT	44	8	24	42
9	k	1	C	15	40		2	9	BENT	44	8	24	42
10	m	2	PL	8 1/2		15/32	0	8 1/2	MIS (C.F. 3/4" PL.)			J	
11	p	1	PL	13		1/2	2	7 3/4	BENT	20	7	24	34
12	s	1	PL	8 1/2		1/2	3	1 3/4	BENT CF10 x 1/2	13	0 1/4	24	35
13	t	1	PL	8		1 19/32 x 21/32	1	4	C.F. 1 3/4 PL			J	
14	v	2	BR	7		1/2	4	6	F2E	18	4	24	51
15													
16	c 1ag R/L #	1/1	BR	7 1/2		3/4	4	6 1/32	M1E F1E	18	4	24	49
17	c 1g #	2	BR	7		1/2	4	6	F2E	18	4	24	51
18	c 1b #	2	BR	7		1/2	4	6	F2E	18	4	24	51
19	c 2bn #	2	PL	16		5/8	1	0 7/8				J	
20													
21													
22													
23													
24													
25	US2	1	UPPER SHOE						DET. ON DWG. 2				
26													
27	FW	1	WD			3/8	20	4					
28	FWL	1	WD			5/16	389	2 3/4					
29	FWS	1	WD			5/16	68	11					
30	FW	1	WD			1/2	1	2					
31	SDS	1	WD			7/16	4	6					
32	V60S	1	WD			3/4	2	8					
33	SD	1	WD			3/16	1	0					
34													
35													
36													
37													
38	LP1A	1	LINK PL. ASSEMBLY						DET. ON DWG. 13				
39	LP1B	1	LINK PL. ASSEMBLY										
40	KB1	1	KEEPER BOLT										
41	P1	1	PIN										
42													
43													
44		12	GALV. 325	7/8 φ			0	3 1/4				902-61	68N
45		12	HW	1 3/4	15/16	3/16						902-61	68N
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													

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

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

USE E7018-18-28 LOW HYDROGEN ELECTRODES OR GR. LA8L2 FOR WELDING.

MATERIAL - A36 STEEL
RIVETS OR BOLTS - 7/8 φ
OPEN HOLES 15/16 φ (U.N)
A325 FIELD BOLTS
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.
S.S. Nishimura OCT 8 1969

INST. - 13W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G13-6	GIRDER (59 x 38 x 98'-1	

PAY ITEM - 504.711

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										

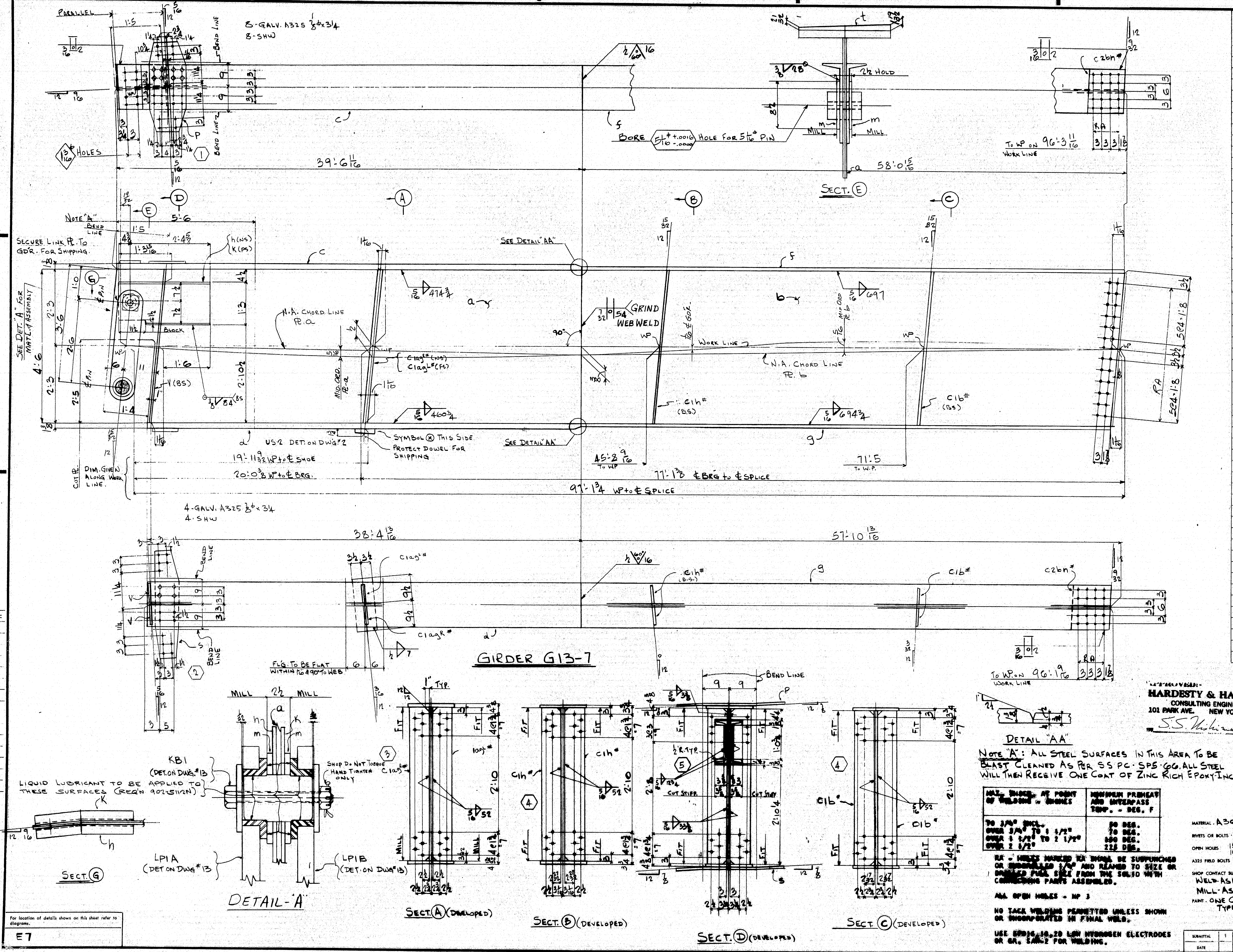
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
STRUCTURE PROJECT No. I-95-1(22)16
CONT. No. 3 NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RDN DATE 8-26-69 IN CHARGE B.K. BERTOLET
CHECKED BY FRG DATE 9-9-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 254

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

3 1 107-55

35453 (Rev.) OCT 20

1 2 3 4 5 INCHES



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

E7

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 G13-7										
2		a	1	PL	54		1/2	39	7 11/16	BENT 56×1/2	40	8 1/2	53	01
3		b	1	PL	54		7/16	58	0 15/16	56 1/2×7/16	59	7 1/2	26	04
4		c	1	PLU	16		1 3/8	39	6 3/8		40	1	3	74
5		d	1	PLU	16		1 3/8	38	4 13/16		38	8	26	11
6		f	1	PLU	16		3/4	58	1 1/8		59	4 1/4	26	15
7		g	1	PLU	16		3/4	57	11		59	4 1/4	26	15
8		h	1	C	15	40		2	9	BENT	44	8	24	42
9		k	1	C	15	40		2	9	BENT	44	8	24	42
10		m	2	PL	8 1/2		15/32	0	8 1/2	MIS (C.F. 3/4" ℞.)			J	
11		p	1	PL	13		1/2	2	7 3/4	BENT	20	7	24	34
12		s	1	PL	8 1/2		1/2	3	1 3/4	BENT CF10 X 1/2	13	0 1/4	24	35
13		t	1	PL	8		1 19/32×21/32	1	4	C.F. 1 3/4" ℞			J	
14		v	2	BR	7		1/2	4	6	F2E	18	4	24	51
15														
16	c	1agR/L#	1/1	BR	7 1/2		3/4	4	6 1/32	MIE F1E	18	4	24	49
17	c	1h#	2	BR	7		1/2	4	6	F2E	18	4	24	51
18	c	1b#	2	BR	7		1/2	4	6	F2E	18	4	24	51
19	c	2bn#	2	PL	16		5/8	1	0 7/8				J	
20														
21														
22														
23														
24														
25		US2	1	UPPER SHOE						DET. ON DWG. 2				
26														
27		FW	1	WD			3/8	20	4					
28		FWL	1	WD			5/16	387	10 1/2					
29		FWS	1	WD			5/16	68	11					
30		FW	1	WD			1/2	1	2					
31		SDS	1	WD			7/16	4	6					
32		V60S	1	WD			3/4	2	8					
33		SD	1	WD			3/16	1	0					
34														
35														
36														
37														
38		LP1A	1	LINK ℞. ASSEMBLY						DET. ON DWG. 13				
39		LP1B	1	LINK ℞. ASSEMBLY						↓				
40		KB1	1	KEEPER BOLT						↓				
41		P1	1	PIN						↓				
42														
43														
44			12	GALV. 325	7/8ϕ			0	3 1/4				902-61	68N
45			12	HW	1 3/4	15/16	3/16						902-61	68N
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

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

INST.-13W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G13-7	GIRDER (59×32×97'-9)	

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

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

USE E7016,18,20 LOW HYDROGEN ELECTRODES OR GR. SAW-2 FOR WELDING.

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

PAY ITEM-504.711

GIRDER

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

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

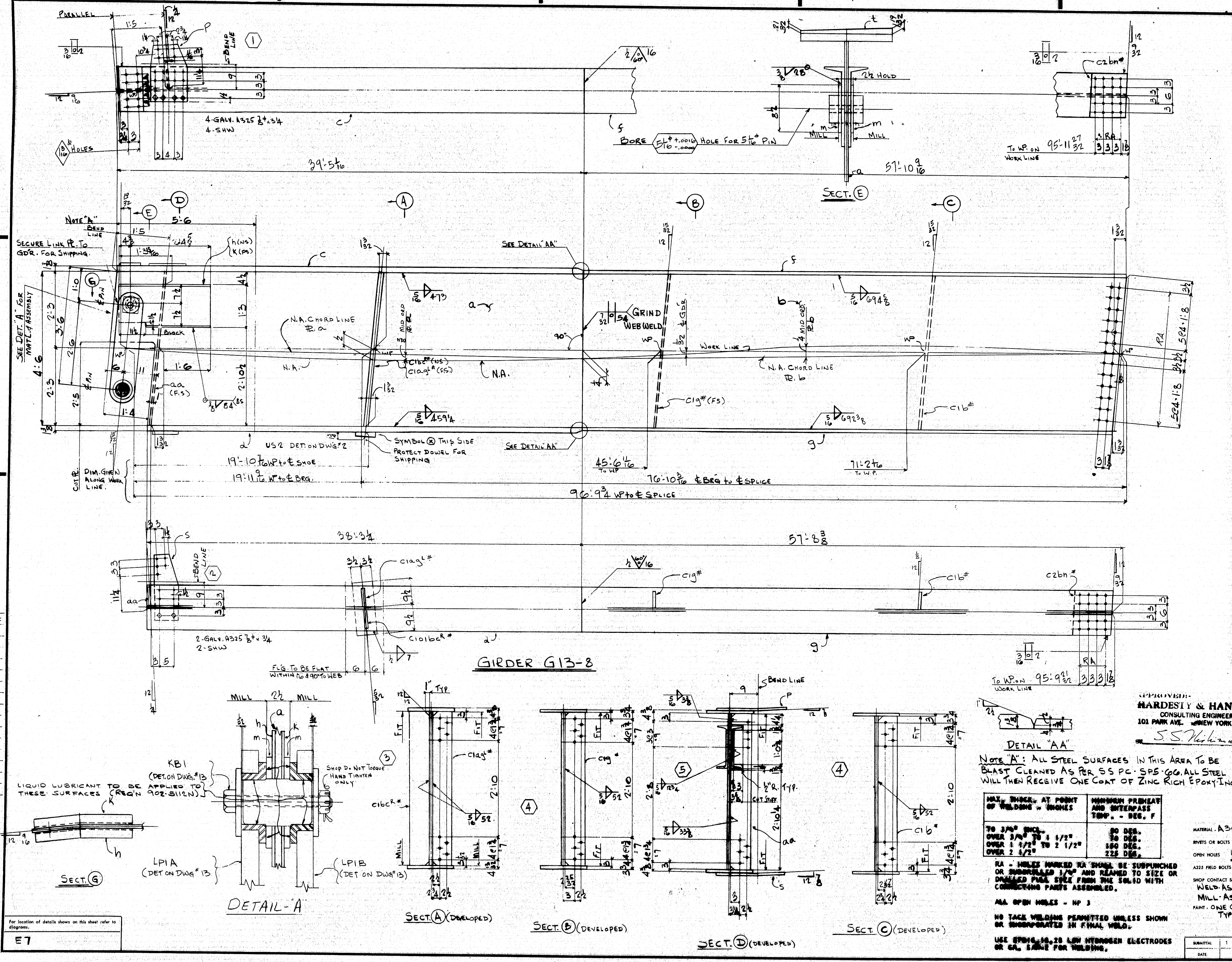
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
STRUCTURE PROJECT No. I-95-1(22)16
CONT. No. 3 NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RDN DATE 8-27-69 IN CHARGE B.K. BERTOLET
CHECKED BY FRG DATE 9-9-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 255

3 1

107-56

35453 (Rev.C 4-65)

OCT 20 1969



GIRDER G13-8

DETAIL "AA"

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1				ONE GIRDER G13-8										
2		a	1	PL	54		1/2	39	6 1/2	BENT 56 x 1/2	40	8 1/2	53	01
3		b	1	PL	54		7/16	57	10 9/16	56 1/2 x 7/16	58	2 1/2	26	05
4		c	1	PLU	16		1 3/8	39	5 1/4		40	1	3	74
5		d	1	PLU	16		1 3/8	38	3 1/4		38	8	26	11
6		f	1	PLU	16		3/4	57	10 3/4		57	11 3/4	26	16
7		g	1	PLU	16		3/4	57	8 9/16		57	11 3/4	26	16
8		h	1	C	15	40		2	9	BENT	44	8	24	42
9		k	1	C	15	40		2	9	BENT	44	8	24	42
10		m	2	PL	8 1/2		15/32	0	8 1/2	MIS (C.F. 3/4" PL.)			J	
11		p	1	PL	13		1/2	1	8 1/4	BENT	20	7	24	34
12		s	1	PL	8 1/2		1/2	1	11 1/4	BENT CF10 x 1/2	13	0 1/4	24	35
13		t	1	PL	8		1 19/32 & 21/32	1	4	C.F. 1 3/4" PL			J	
14		aa	1	BR	7		1/2	4	6	F2E	18	4	24	51
15														
16	c	1ag^L#	1	BR	7 1/2		3/4	4	6 1/32	MIE F1E	18	4	24	49
17	c	1bc^R#	1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
18	c	1g#	1	BR	7		1/2	4	6	F2E	18	4	24	51
19	c	1b#	1	BR	7		1/2	4	6	F2E	18	4	24	51
20	c	2bn#	2	PL	16		5/8	1	0 7/8				J	
21														
22														
23														
24														
25		US2	1	UPPER SHOE						DET. ON DWG. 2				
26														
27		FW	1	WD			3/8	20	4					
28		FWL	1	WD			5/16	386	6 1/2					
29		FWS	1	WD			5/16	43	4					
30		FW	1	WD			1/2	1	2					
31		SDS	1	WD			7/16	4	6					
32		V60S	1	WD			3/4	2	8					
33		SD	1	WD			3/16	1	0					
34														
35														
36														
37														
38		LP1A	1	LINK PL. ASSEMBLY						DET. ON DWG. 13				
39		LP1B	1	LINK PL. ASSEMBLY										
40		KB1	1	KEEPER BOLT										
41		P1	1	PIN										
42														
43														
44			6	GALV. 325	7/8 φ			0	3 1/4				902-61	68N
45			6	HW	1 3/4	15/16	3/16						902-61	68N
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

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

INST. - 13W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G13-8	GIRDER (59 x 24 x 97'-5)	

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 - 504.711

GIRDER

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. SAME FOR WELDING.

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

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

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

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

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

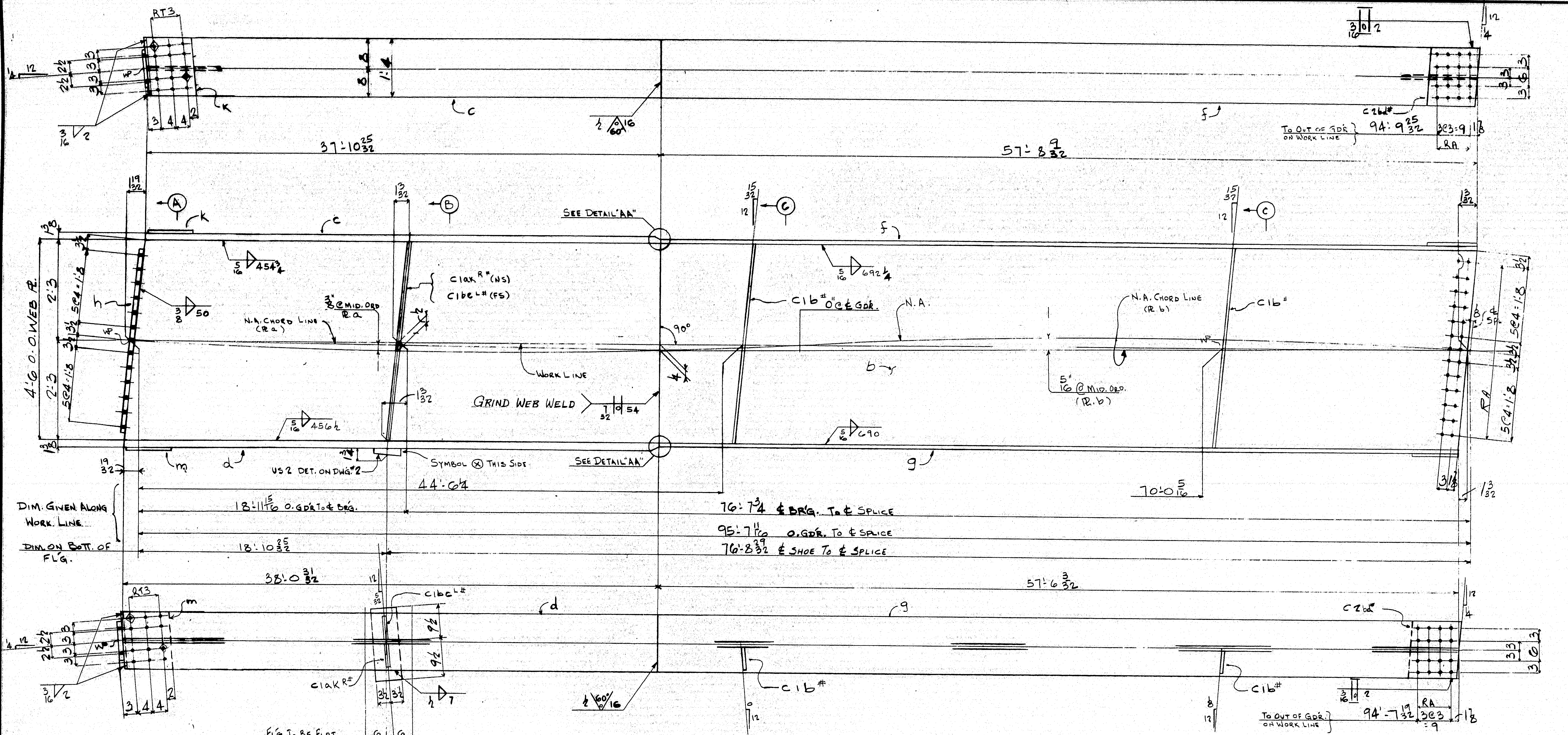
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RDN DATE 8-27-69 IN CHARGE B. K. BERTOLET
CHECKED BY FRG DATE 9-9-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 256

33453 (Rev. C 4-65)

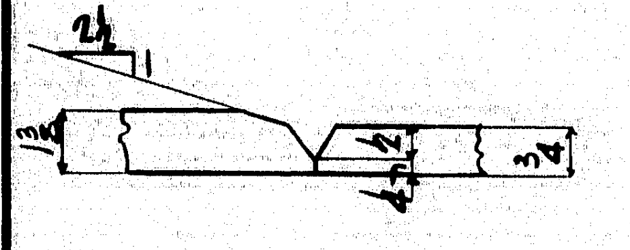
3 1

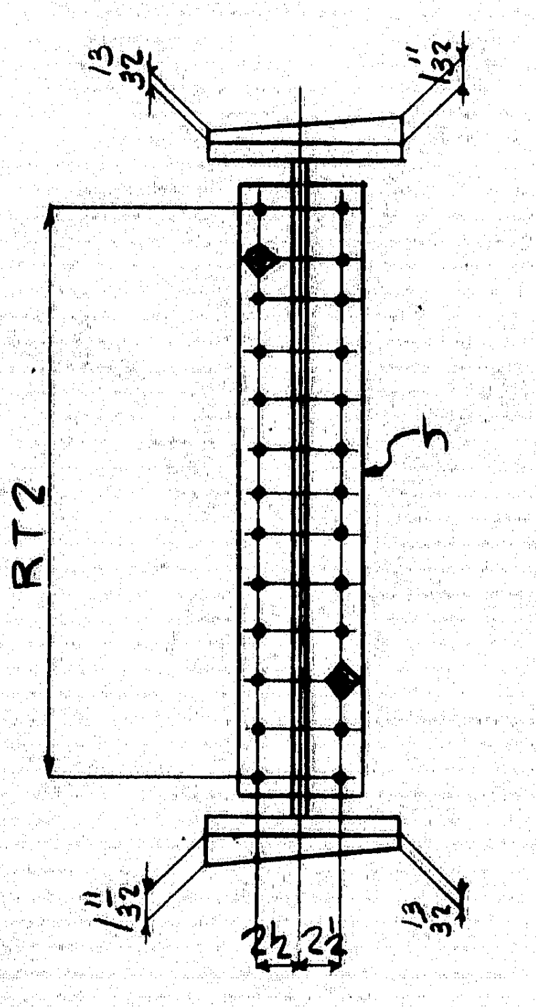
107-57.

OCT-20



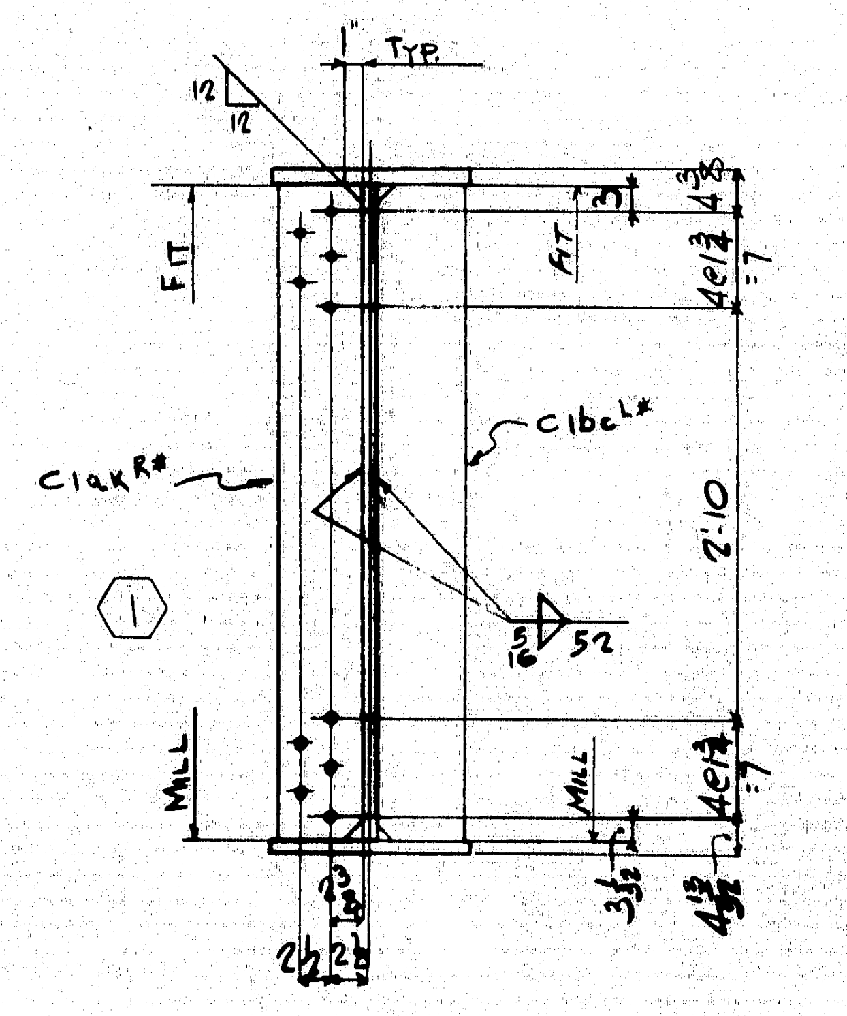
GIRDER - G13-9



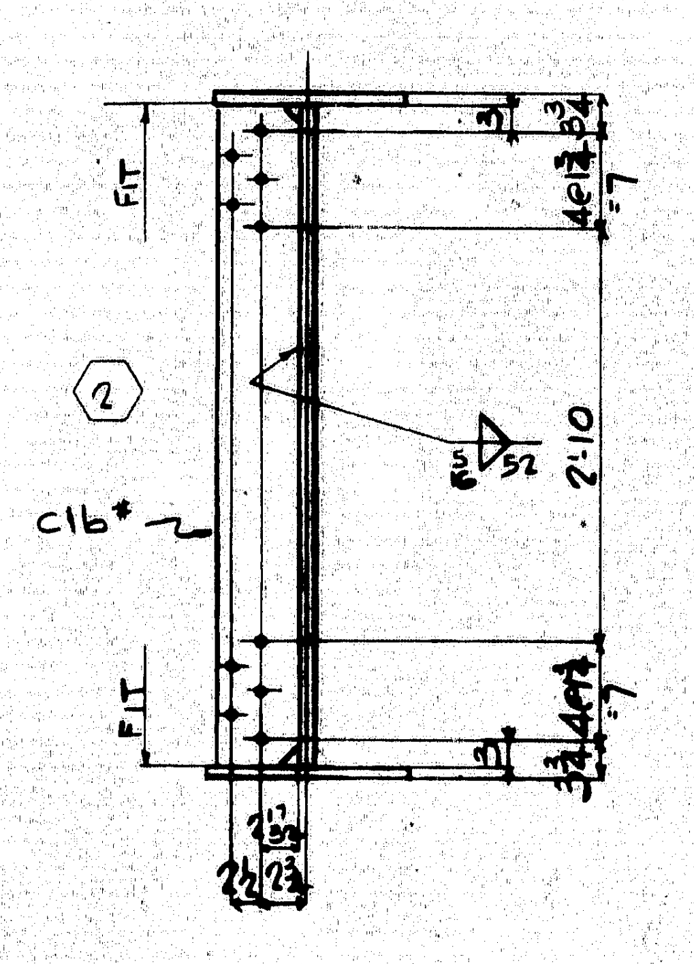


DETAIL "AA"

SECT. A (DEVELOPED)



SECT. B (DEVELOPED)



SECT. C (DEVELOPED)

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

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

E7

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 G13-9										
2	a	1	PL	54		1/2	38	0 31/32	56×1/2	38	7	26	07
3	b	1	PL	54		7/16	57	8 9/32	56 1/2×7/16	58	2 1/2	26	05
4	c	1	PLU	16		1 3/8	37	10 15/16		38	2 3/4	26	12
5	d	1	PLU	16		1 3/8	38	1 1/8		38	2 3/4	26	12
6	f	1	PLU	16		3/4	57	8 7/16		57	11 1/2	26	17
7	g	1	PLU	16		3/4	57	6 1/4		57	11 1/2	26	17
8	h	1	PL	8		1/2	4	2		30	6	J	
9	k	1	PL	16		1 11/32×13/32	1	0	C.F. 1 3/8 PL			J	
10	m	1	PL	16		1 11/32×13/32	1	0	C.F. 1 3/8 PL			J	
11													
12													
13													
14													
15													
16													
17													
18													
19													
20	c 26d'	2	PL	16		5/8	1	0 27/32				J	
21													
22	c 1ak R#	1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
23	c 1bc L#	1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
24	c 1b#	2	BR	7		1/2	4	6	F2E	18	4	24	51
25													
26	US2	1	UPPER SHOE						DET. ON DWG #2				
27													
28													
29	FW	1	WD			3/16	1	4					
30	FWL	1	WD			5/16	382	4					
31	FWS	1	WD			5/16	34	8					
32	FW	1	WD			1/2	1	2					
33	SDS	1	WD			7/16	4	6					
34	V60S	1	WD			3/4	2	8					
35	FW	1	WD			3/8	8	4					
36	SD	1	WD			3/16	0	8					
37													
38													
39													
40													
41													
42													

INST. 13E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G13-9	GIRDER (60×16×95'-10)	

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

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

PAY ITEM 504.711

DOWELS IN PL. US2 TO BE PROTECTED DURING SHIPMENT

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

ALL OPEN HOLES - NP 3

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

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

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

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

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

REVISION: NO. DATE INIT

GIRDER

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

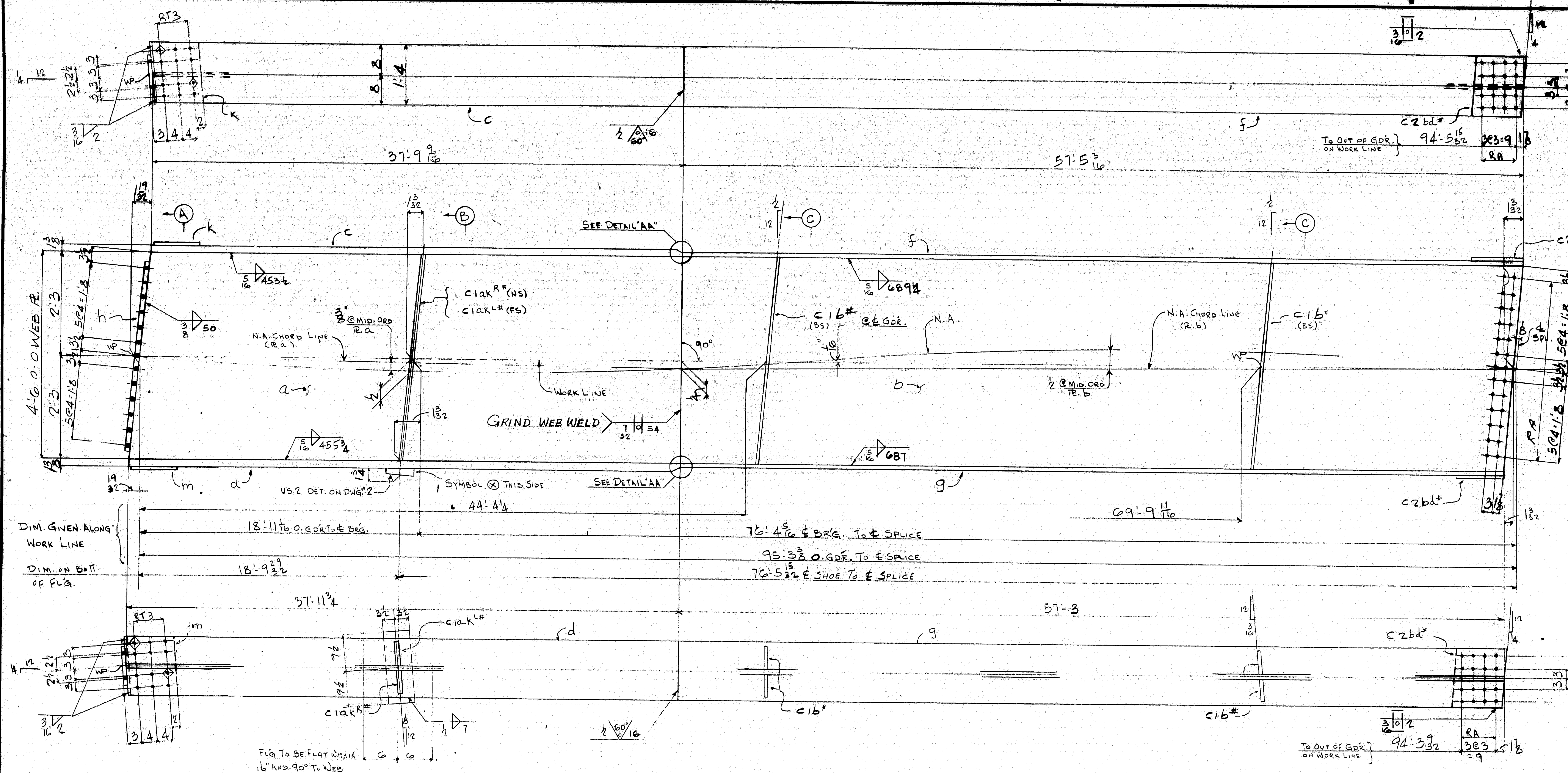
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

POTTSTOWN DRAFTING ROOM · POTTSTOWN WORKS
MADE BY R.D.N. DATE 8-8-69 · IN CHARGE B.K. BERTOLET
CHECKED BY FRG DATE 9-11-69 · SHOP NO. 2
CONTRACT 53-6249-020 · DRAWING NO. 257

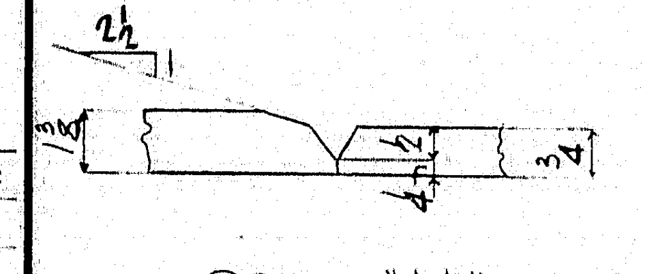
3 1

107-58

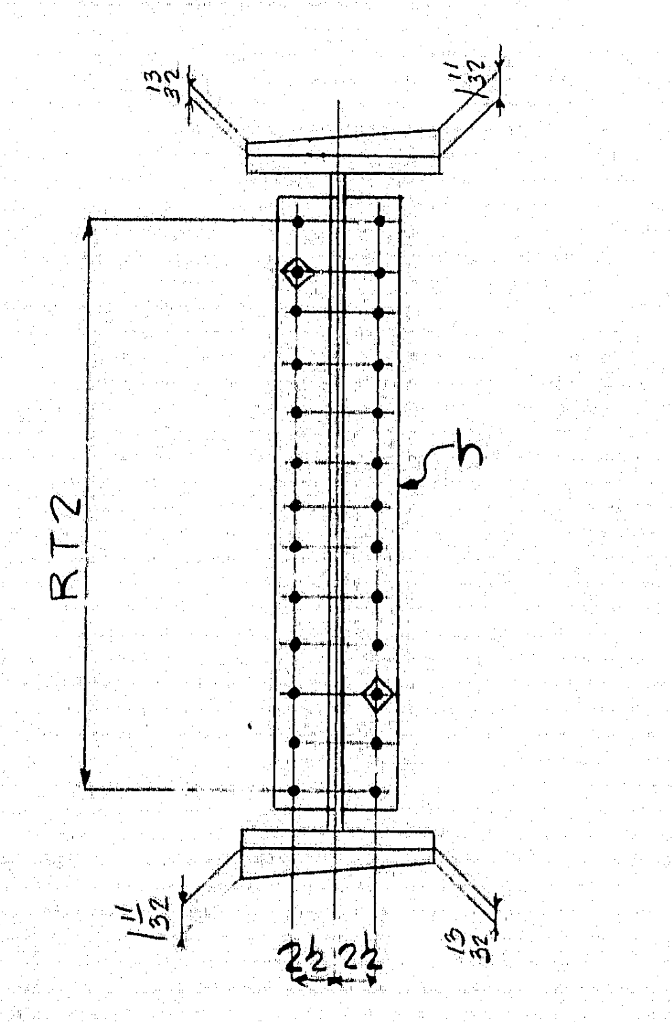
OCT 20



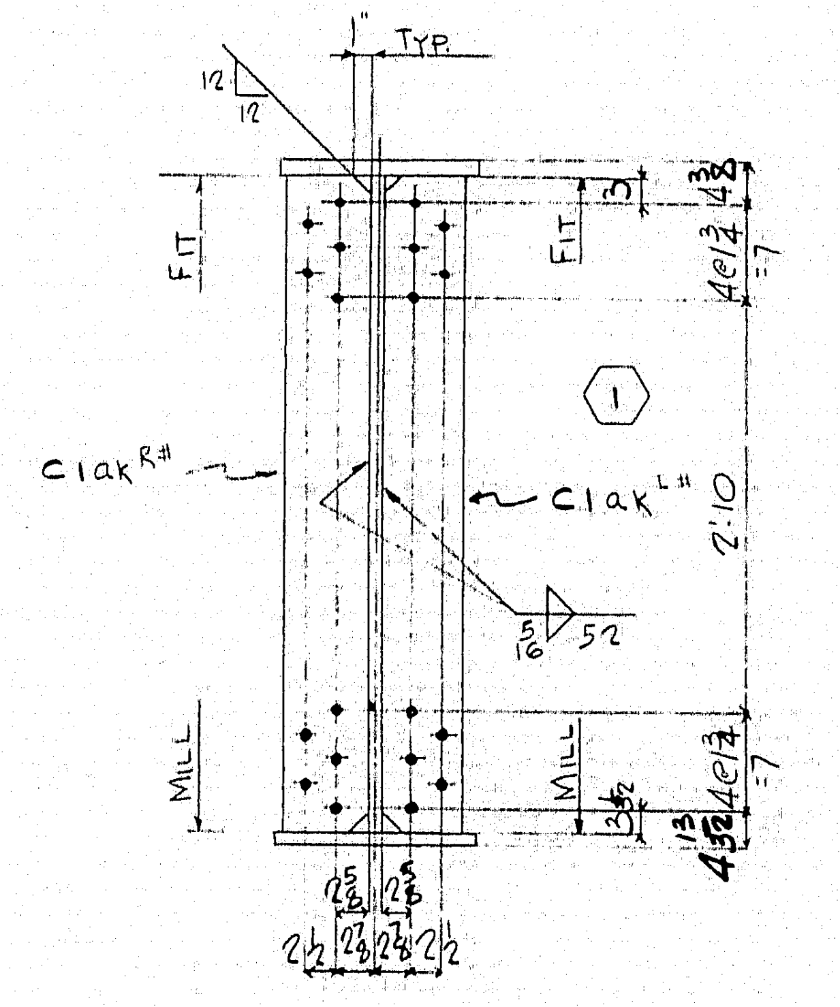
GIRDER - G13-10



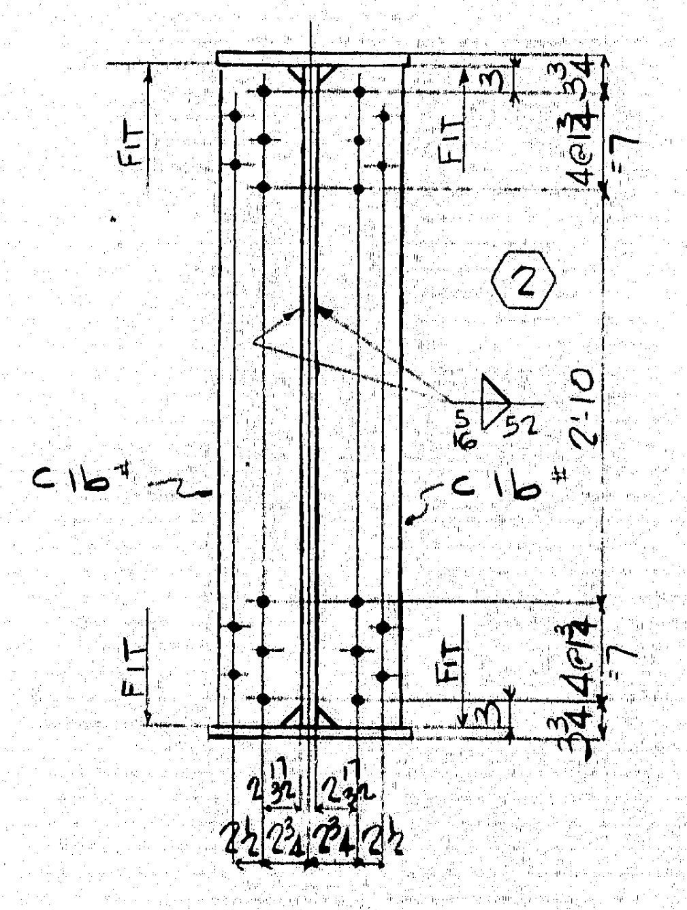
DETAIL "AA"



SECT. Ⓐ (DEVELOPED)



SECT. Ⓑ (DEVELOPED)



SECT. Ⓒ (DEVELOPED)

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	G13-10									
2	a	1	PL	54		½	37	11¾	56 × ½	38	7	26	07
3	b	1	PL	54		7/16	57	5 3/16	56½ × 7/16	58	2½	26	05
4	c	1	PLU	16		1⅜	37	9¾		38	2¾	26	12
5	d	1	PLU	16		1⅜	37	11 15/16		38	2¾	26	12
6	f	1	PLU	16		¾	57	5⅜		57	11½	26	17
7	g	1	PLU	16		¾	57	3 3/16		57	11½	26	17
8	h	1	PL	8		½	4	2		30	6	J	
9	k	1	PL	16		1 11/32 × 13/32	1	0	C.F. 1⅜ ℞			J	
10	m	1	PL	16		1 11/32 × 13/32	1	0	C.F. 1⅜ ℞			J	
11													
12													
13													
14													
15													
16													
17													
18													
19													
20	C 2bd#	2	PL	16		⅝	1	0 27/32				J	
21													
22	C 1akR/L#	1/1	BR	7½		¾	4	6½	MIE FIE	18	4	24	49
23	C 1b#	4	BR	7		½	4	6	F2E	18	4	24	51
24													
25													
26	US2	1	UPPER SHOE						DET. ON DWG #2				
27													
28													
29	FW	1	WD			3/16	1	4					
30	FWL	1	WD			5/16	380	11					
31	FWS	1	WD			5/16	52	0					
32	FW	1	WD			½	1	2					
33	SDS	1	WD			7/16	4	6					
34	V60S	1	WD			¾	2	8					
35	FW	1	WD			⅜	8	4					
36	SD	1	WD			3/16	0	8					
37													
38													
39													
40													
41													
42													

INST. 13E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G13-10	GIRDER (60 × 16 × 95'-6)	

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

PAY ITEM · 504.711

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

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.

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

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

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

REVISION

GIRDER

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

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RDN DATE 8-11-69 IN CHARGE B.K. BERTOLET
CHECKED BY FRG DATE 9-11-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 258

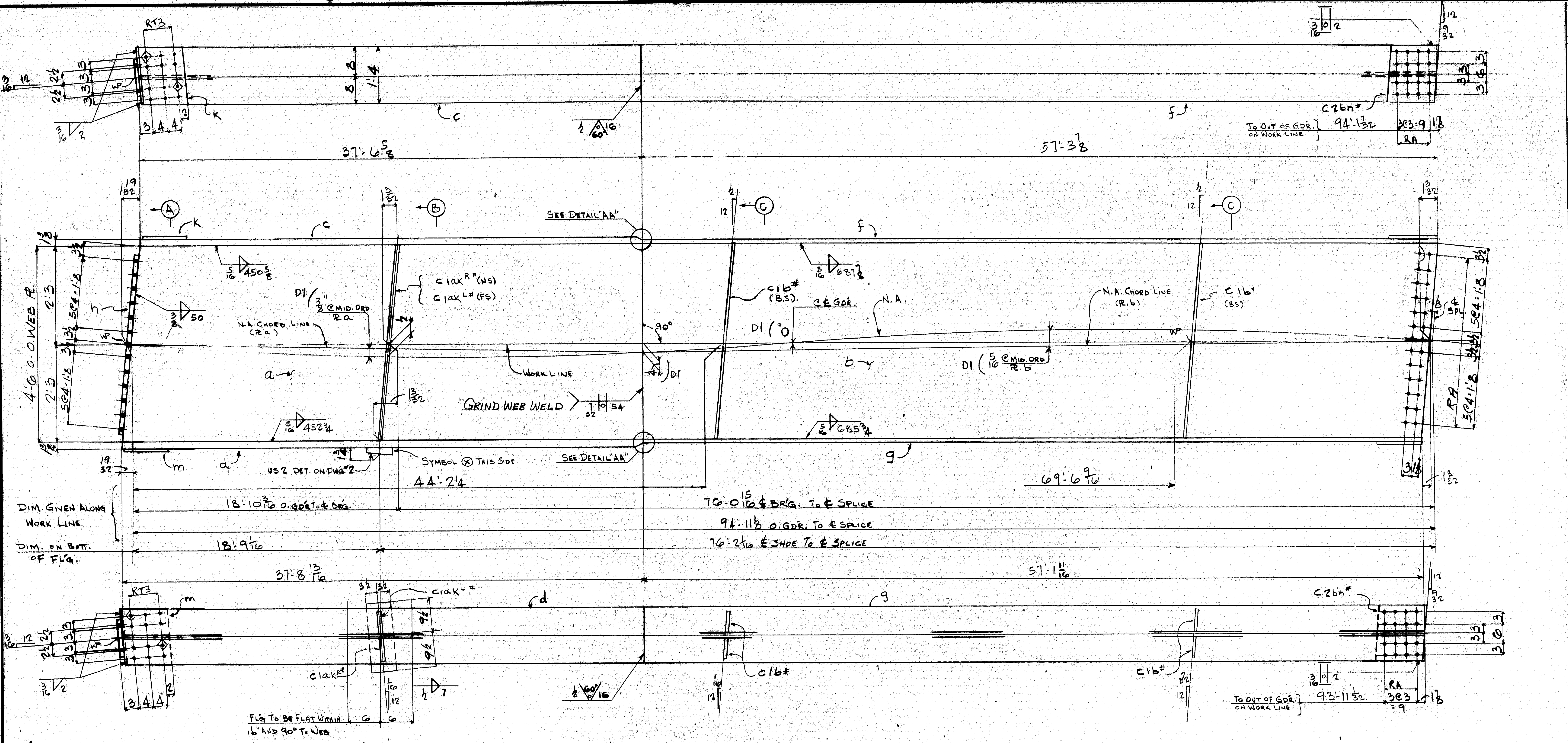
3 1

107-59

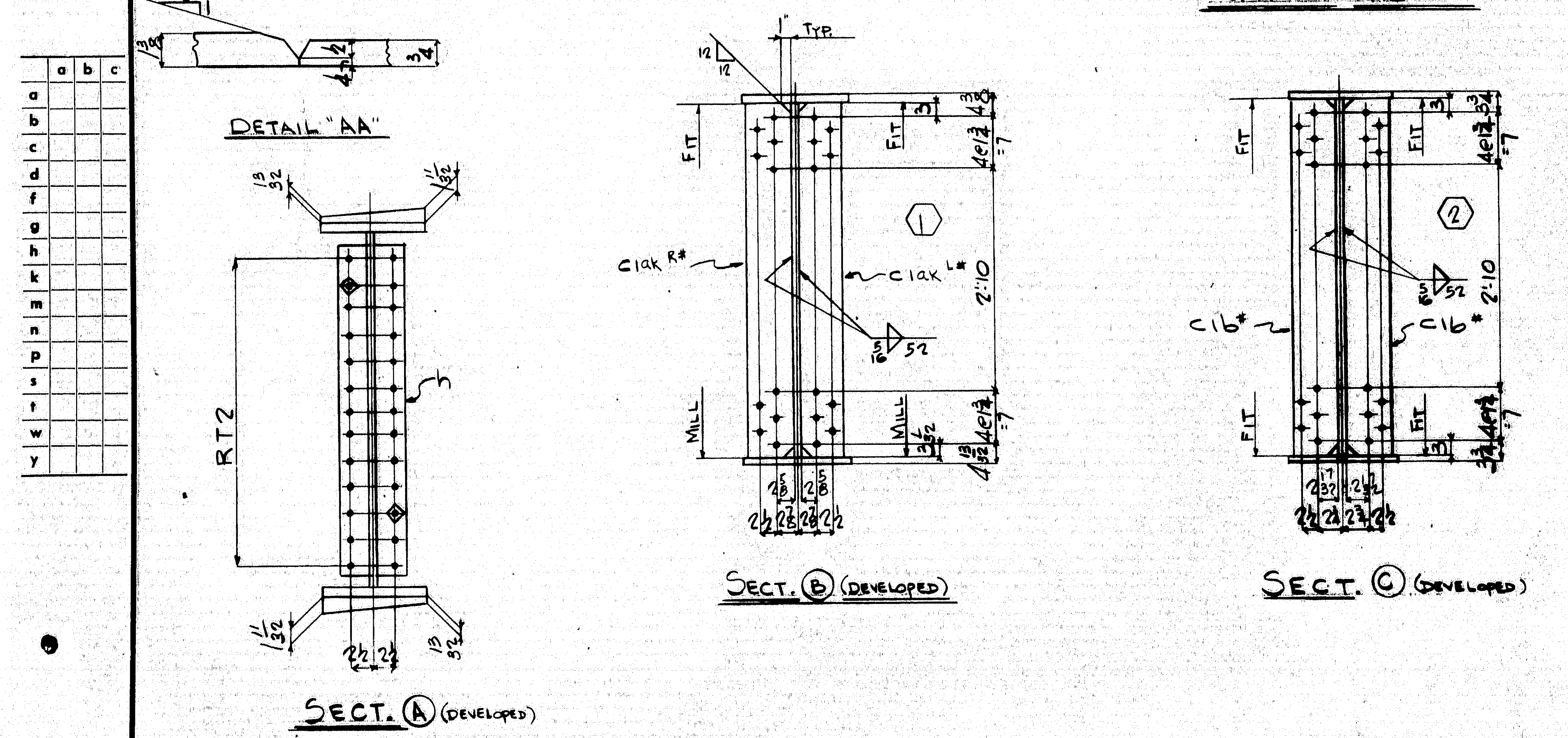
35453 (R-) 20

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

0 1 2 3 4 5 INCHES



GIRDER - G13-11



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

E7

DOWELS IN PL. US2 TO BE PROTECTED DURING SHIPMENT

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

ALL OPEN HOLES - NP 3

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

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

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

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

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 [illegible] NEW YORK 17, N.Y
BY S. S. Nishimura OCT 8 1969

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

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

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 G13-11										
2	a	1	PL	54		1/2	37	8 13/16	56×1/2	38	1 1/2	26	08
3	b	1	PL	54		7/16	57	3 3/8	56 1/2×7/16	58	2 1/2	26	05
4	c	1	PLU	16		1 3/8	37	6 3/4		38	2 3/4	26	12
5	d	1	PLU	16		1 3/8	37	8 15/16		38	2 3/4	26	12
6	f	1	PLU	16		3/4	57	4 1/16		57	11 1/2	26	17
7	g	1	PLU	16		3/4	57	1 3/4		57	11 1/2	26	17
8	h	1	PL	8		1/2	4	2		30	6	J	
9	k	1	PL	16		1 11/32×13/32	1	0				J	
10	m	1	PL	16		1 11/32×13/32	1	0				J	
11													
12													
13													
14													
15													
16													
17													
18													
19													
20	C 2bn#	2	PL	16		5/8	1	0 1/8				J	
21													
22	C 1ak R/L #	1/1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
23													
24	C 1b#	4	BR	7		1/2	4	6	F2E	18	4	24	51
25													
26	US2	1	UPPER SHOE						DET. ON DWG #2				
27													
28													
29	FW	1	WD			3/16	1	4					
30	FWL	1	WD			5/16	379	6					
31	FWS	1	WD			5/16	52	0					
32	FW	1	WD			1/2	1	2					
33	SDS	1	WD			7/16	4	6					
34	V60S	1	WD			3/4	2	8					
35	FW	1	WD			3/8	8	4					
36	SD	1	WD			3/16	0	8					
37													
38													
39													
40													
41													
42													

INST. 13E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G13-11	GIRDER (60×16×95'-2)	

PAY ITEM · 504.711

GIRDER

NO.	DATE	INIT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
D1	11/14/69	4 RD

REVISION

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

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY R.D.N. DATE 8-11-69 IN CHARGE B.K. BERTOLET
CHECKED BY FRG DATE 9-11-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 259

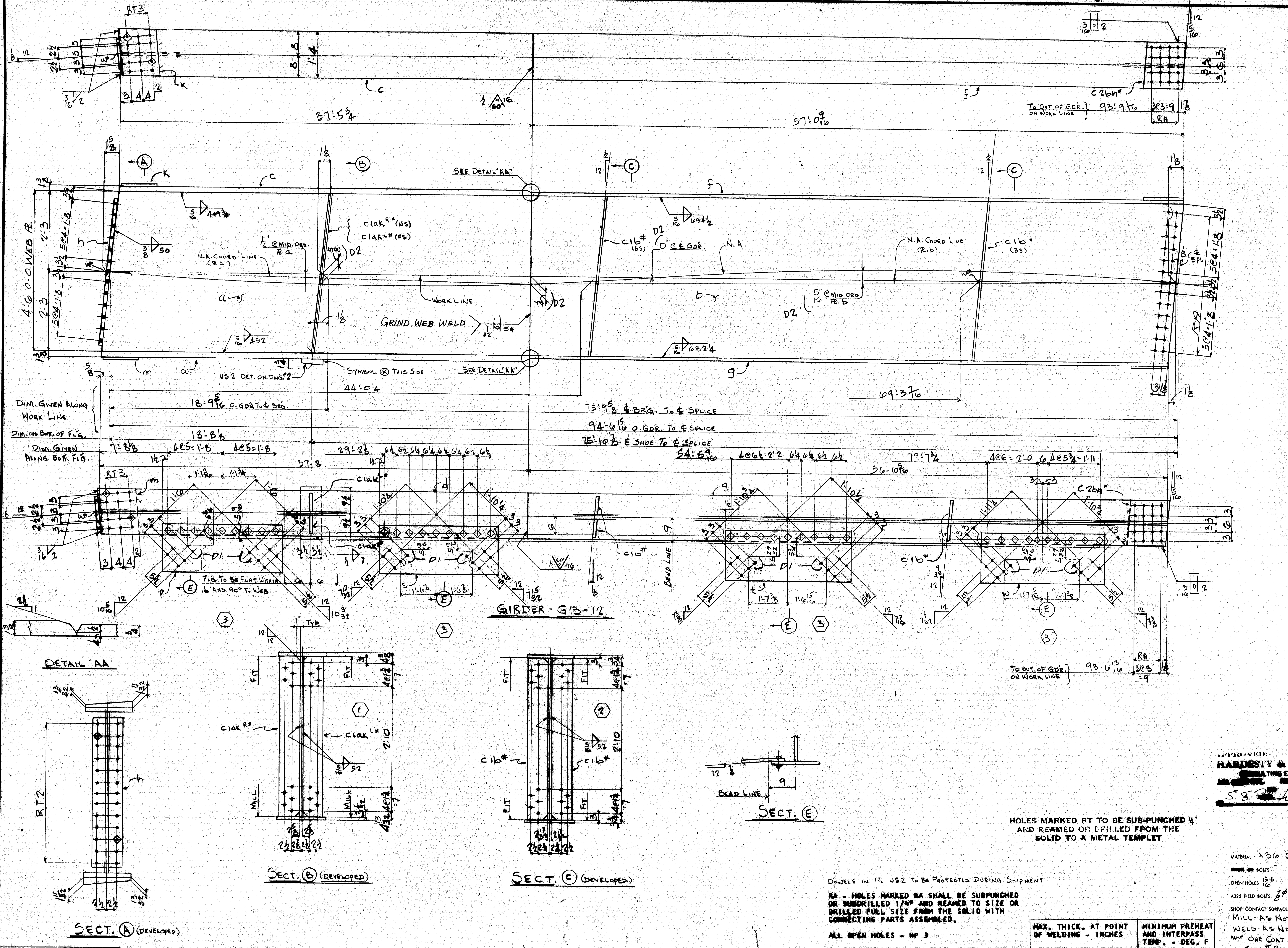
3 1

35453 (Rev.A 1-65)

107-60

OCT 20 [illegible]

0 1 2 3 4 5 INCHES



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

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.

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	G13-12									
2	a	1	PL	54		1/2	37	8	54 x 1/2	38	1 1/2	26	08
3	b	1	PL	54		7/16	57	0 9/16	56 1/2 x 7/16	58	2 1/2	26	05
4	c	1	PLU	16		1 3/8	37	5 13/16		38	2 3/4	26	12
5	d	1	PLU	16		1 3/8	37	8 1/16		38	2 3/4	26	12
6	f	1	PLU	16		3/4	57	0 3/4		57	11 1/2	26	17
7	g	1	PLU	16		3/4	56	10 1/2		57	11 1/2	26	17
8	h	1	PL	8		1/2	4	2		30	6	J	
9	k	1	PL	16		1 11/32 x 13/32	1	0	C.F. 1 3/8 ℞			J	
10	m	1	PL	16		1 11/32 x 13/32	1	0	C.F. 1 3/8 ℞			J	
11	p	1	PL	14 3/4		5/8	3	7				J	
12	s	1	PL	14 1/2		5/8	4	6		26	0	28	19
13	t	1	PL	14 1/2		5/8	4	6 1/2		26	0	28	19
14	w	1	PL	14 1/2		5/8	4	8		26	0	28	19
15													
16													
17													
18													
19													
20	C2bn#	2	PL	16		5/8	1	0 7/8				J	
21													
22	C1ak R/L #	1/1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
23													
24	C1b#	4	BR	7		1/2	4	6	F2E	18	4	24	51
25													
26	US2	1	UPPER SHOE						DET. ON DWG #2				
27													
28													
29	FW	1	WD			3/16	1	4					
30	FWL	1	WD			5/16	378	1					
31	FWS	1	WD			5/16	52	0					
32	FW	1	WD			1/2	1	2					
33	SDS	1	WD			7/16	4	6					
34	V60S	1	WD			3/4	2	8					
35	FW	1	WD			3/8	8	4					
36	SD	1	WD			3/16	0	8					
37													
38		18	325	7/8			0	3 1/4	}			M	
39		19	325	7/8			0	2 3/4					
40		37	HW	1 3/4	15/16 φ	3/16							
41													
42													

INST. 13E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G13-12	GIRDER (60 x 21 x 94'-9)	

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
NEW YORK 17, N.Y.
S. S. Fishman OCT 8 1969

PAY ITEM 504.711

GIRDER

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

NO.	DATE	INIT
0		
9		
8		
7		
6		
5		
4		
3		
D2	11/14/69	4/RD
D1	11-7-69	8/FRG

REVISION

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

CUSTOMER
MAINE STATE HIGHWAY COMMISSION
~~STRUCTURE~~ 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 8-12-69 IN CHARGE B.K. BERTOLET
CHECKED BY FRG DATE 9-11-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 260

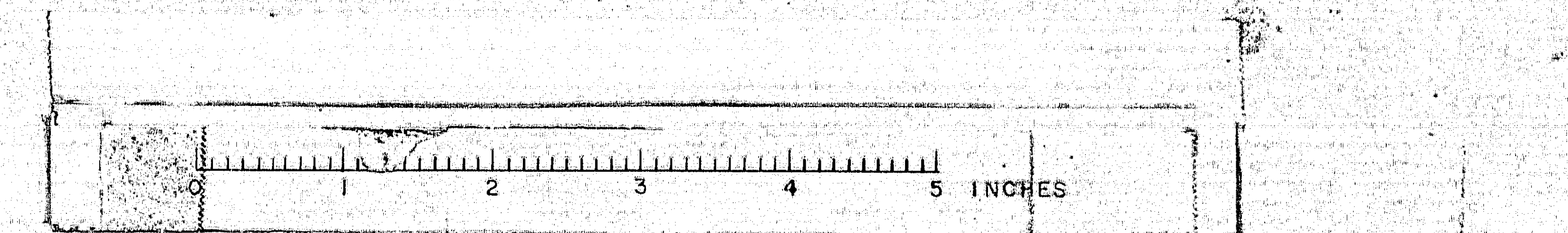
3 1

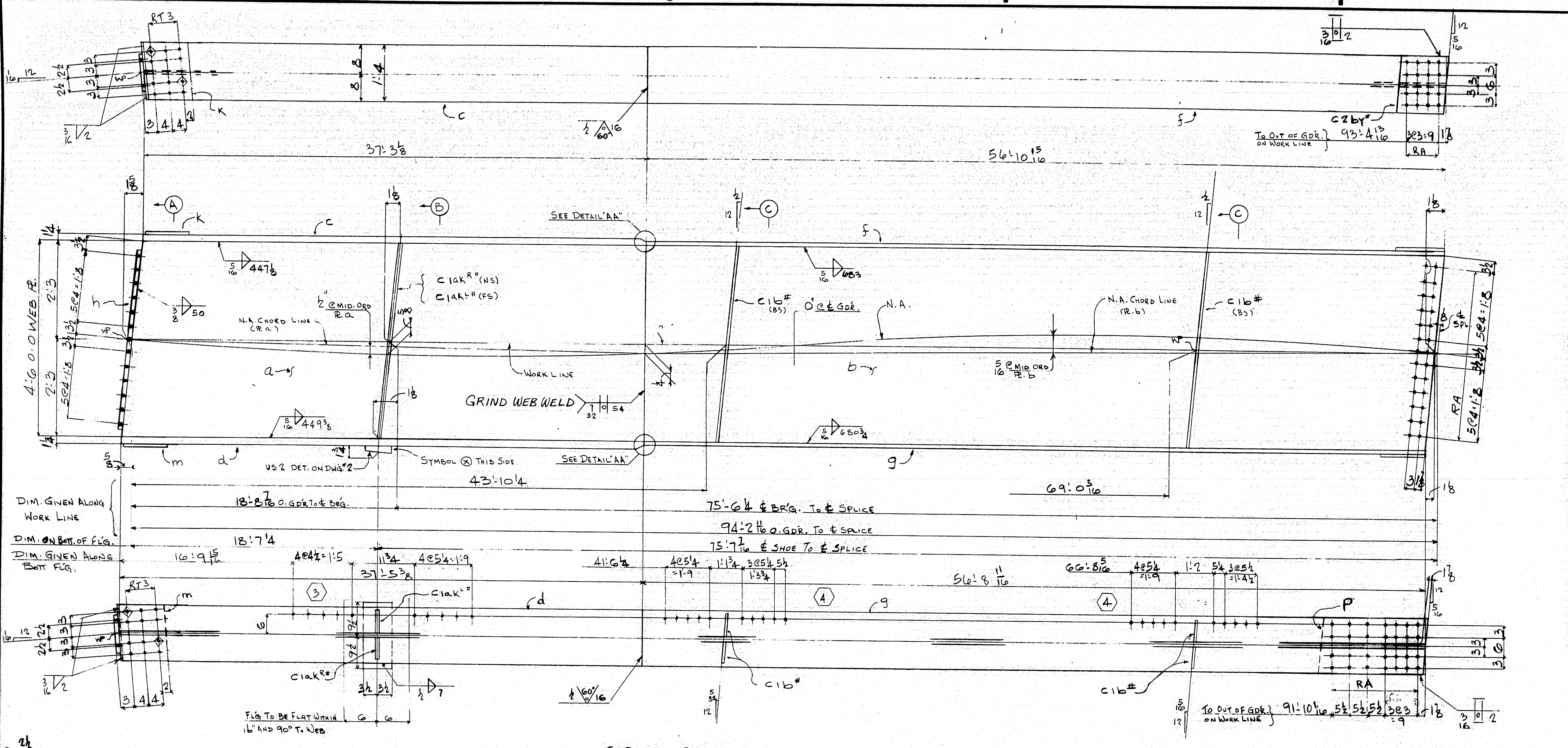
107-61

35453 (Rev.A 1-65) OCT 20

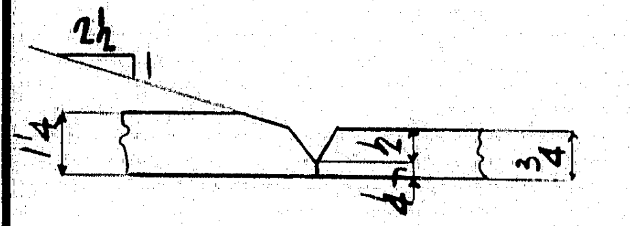
For location of details shown on this sheet refer to diagrams.

E7

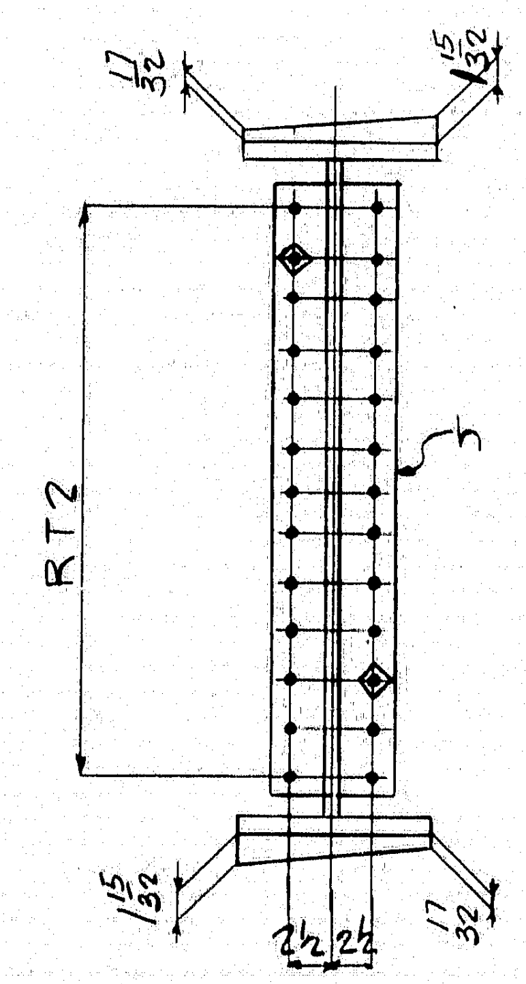




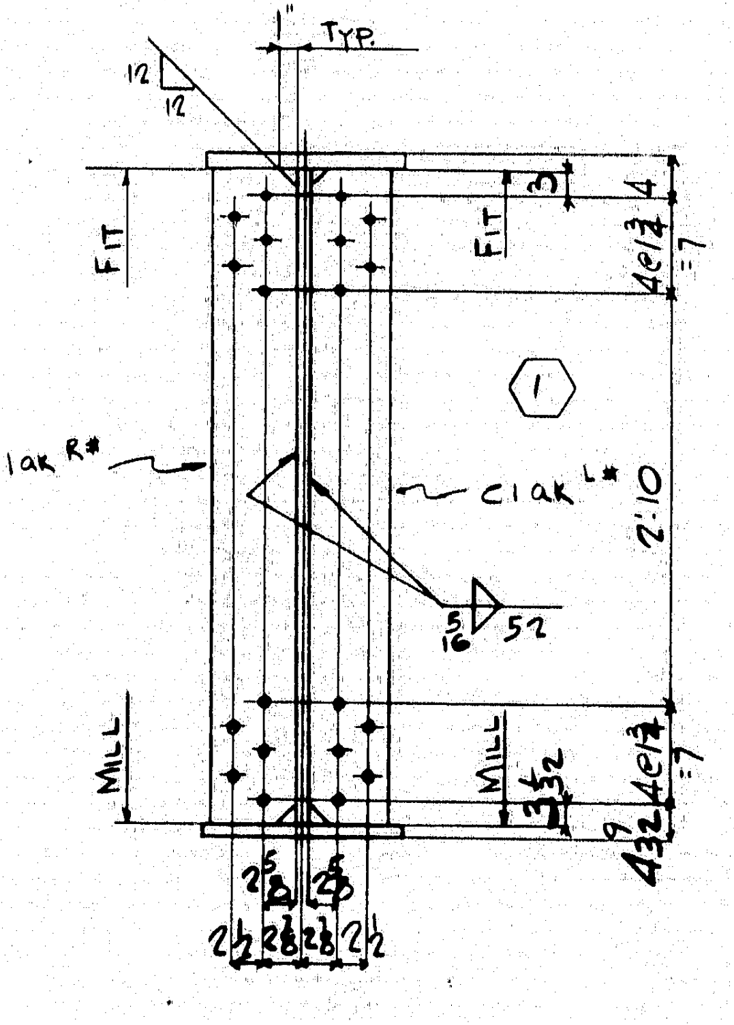
GIRDER - G13-13



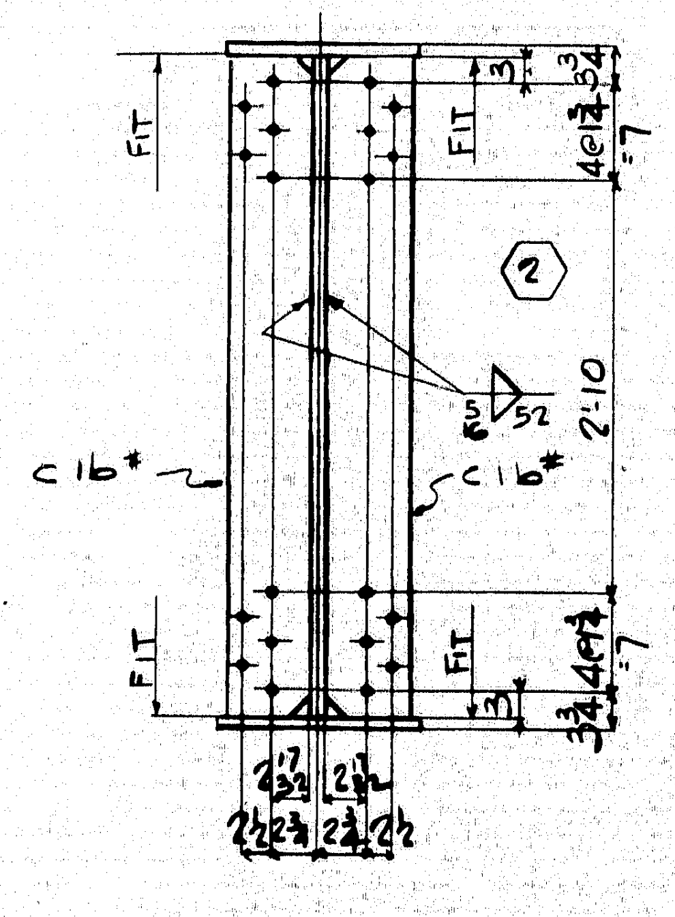
DETAIL "AA"



SECT. Ⓐ (DEVELOPED)



SECT. Ⓑ (DEVELOPED)



SECT. Ⓒ (DEVELOPED)

	SHOP BILL									MILL ORDER			
LINE	ASSEMBLY MARK	NO.	SHAPE	SECTION Size	Size or Pounds	Thick	LENGTH Ft.	In.	REMARKS	LENGTH Ft.	In.	ITEM Page	Line
1			1-GIRDER	G13-13									
2	a	1	PL	54		½	37	5⅜	56×½	38	1½	26	08
3	b	1	PL	54		7/16	56	10 15/16	56½×7/16	58	2½	26	05
4	c	1	PLU	16		1¼	37	3 5/32		37	7	26	14
5	d	1	PLU	16		1¼	37	5 13/32		37	7	26	14
6	f	1	PLU	16		¾	56	11⅛		56	11¾	26	18
7	g	1	PLU	16		¾	56	8⅞		56	11¾	26	18
8	h	1	PL	8		½	4	2		30	6	J	
9	k	1	PL	16		1 15/32×17/32	1	0	C.F. 1 9/16 PL			J	
10	m	1	PL	16		1 15/32×17/32	1	0	C.F. 1 9/16 PL			J	
11	P	1	PL	16		½	2	5 13/32		20	2	24	46
12													
13													
14													
15													
16													
17													
18													
19													
20	C2by#	1	PL	16		½	1	0 29/32		20	2	24	46
21													
22	C1ak^R#_L	1/1	BR	7½		¾	4	6 1/32	M1E F1E	18	4	24	49
23													
24	C1b#	4	BR	7		½	4	6	F2E	18	4	24	51
25													
26	US2	1	UPPER SHOE						DET. ON DWG#2				
27													
28													
29	FW	1	WD			3/16	1	4					
30	FWL	1	WD			5/16	376	8¼					
31	FWS	1	WD			5/16	52	0					
32	FW	1	WD			½	1	2					
33	SDS	1	WD			7/16	4	6					
34	V60S	1	WD			¾	2	8					
35	FW	1	WD			⅜	8	4					
36	SD	1	WD			3/16	0	8					
37													
38													
39													
40													
41													
42													

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

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

E7

INST. 13E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G13-13	GIRDER (60×16×94'-5)	

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

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

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 CO2 SAW 2 FOR WELDING.

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

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

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		

PAY ITEM · 504.711

GIRDER

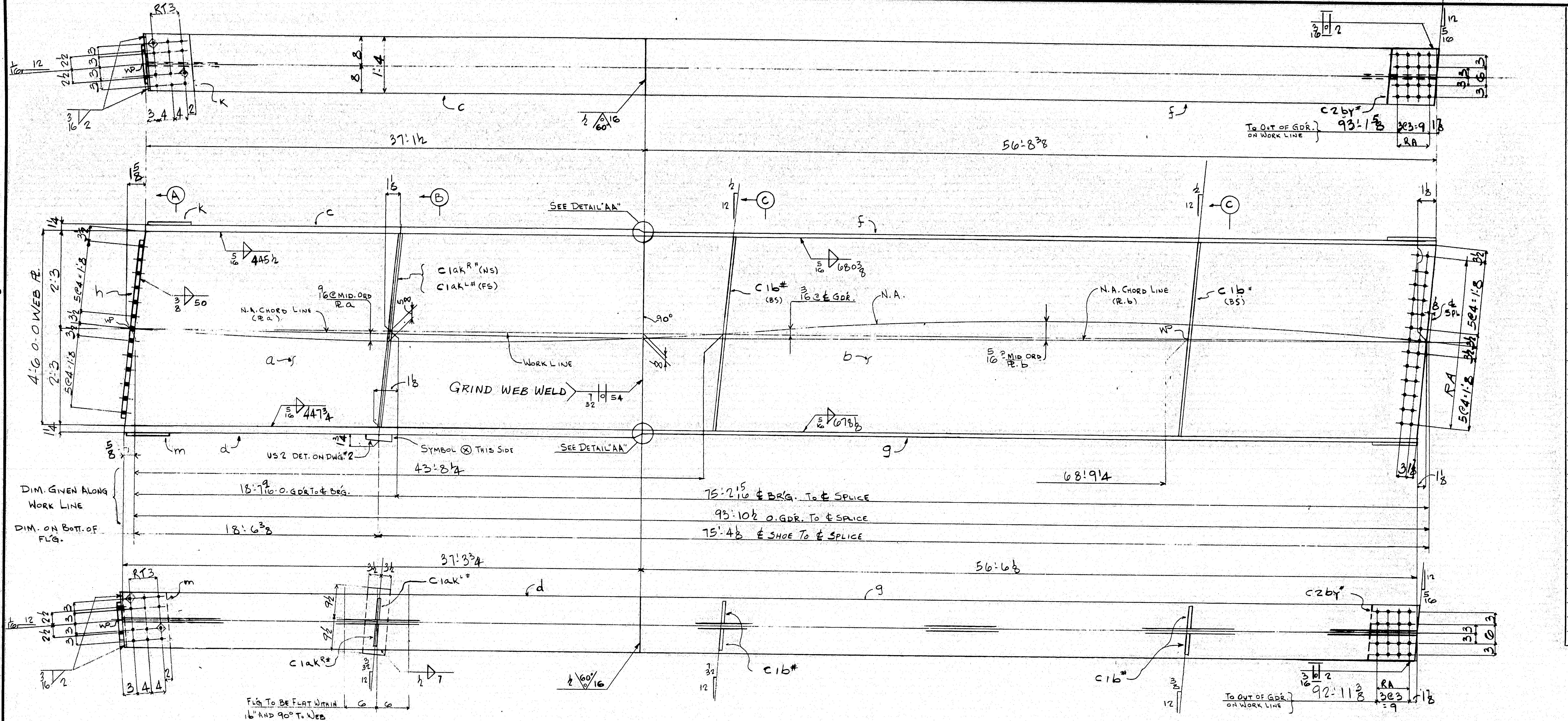
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT NO. I-95-1 (22) 16
CONT. NO. 3 · NEW HAMPSHIRE APP.
STRUCTURAL STEEL

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY R.D.N. DATE 8-13-69 IN CHARGE B.K. BERTOLET
CHECKED BY F.R.G. DATE 9-11-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 261

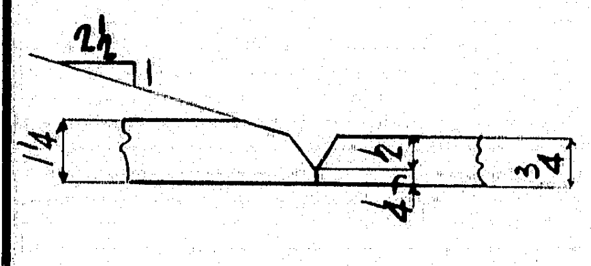
3 1

107-62

35453 (Rev.A 1-68) OCT 20 1969



GIRDER - G13-14



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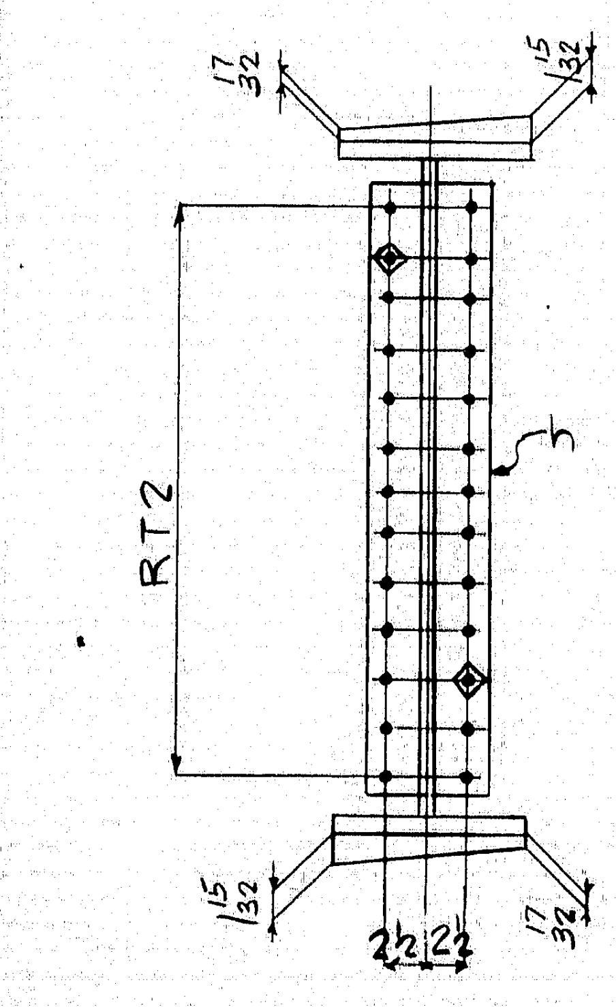
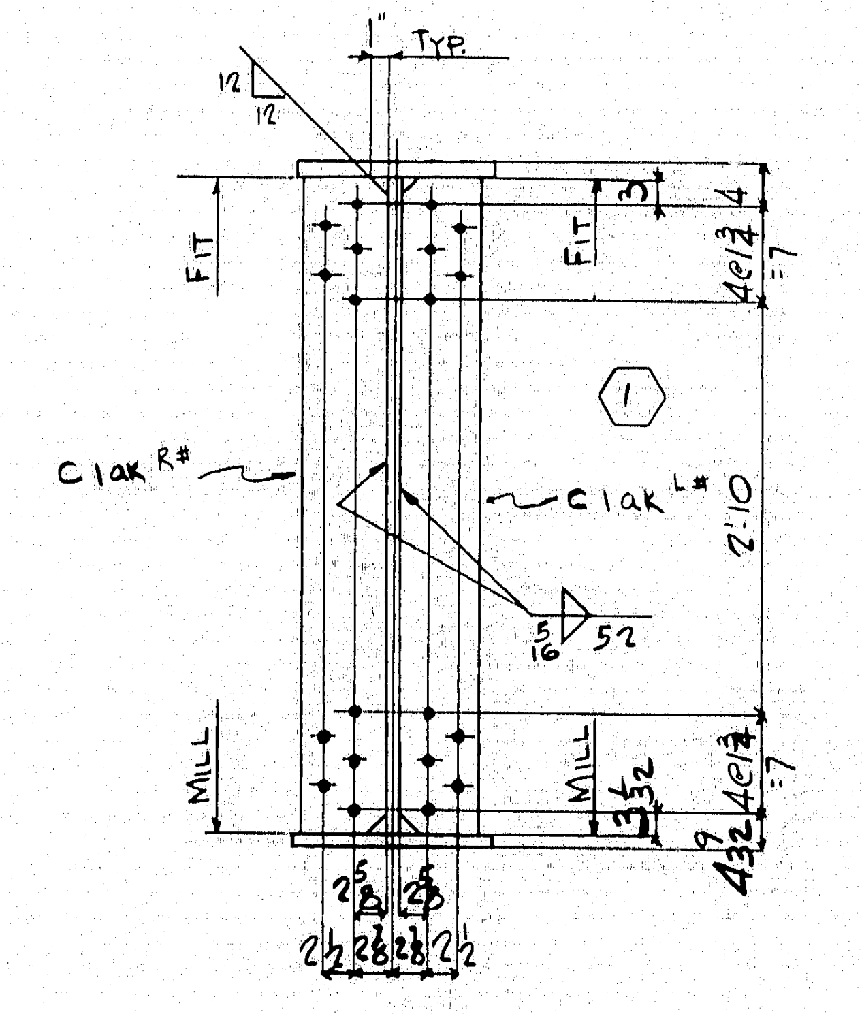
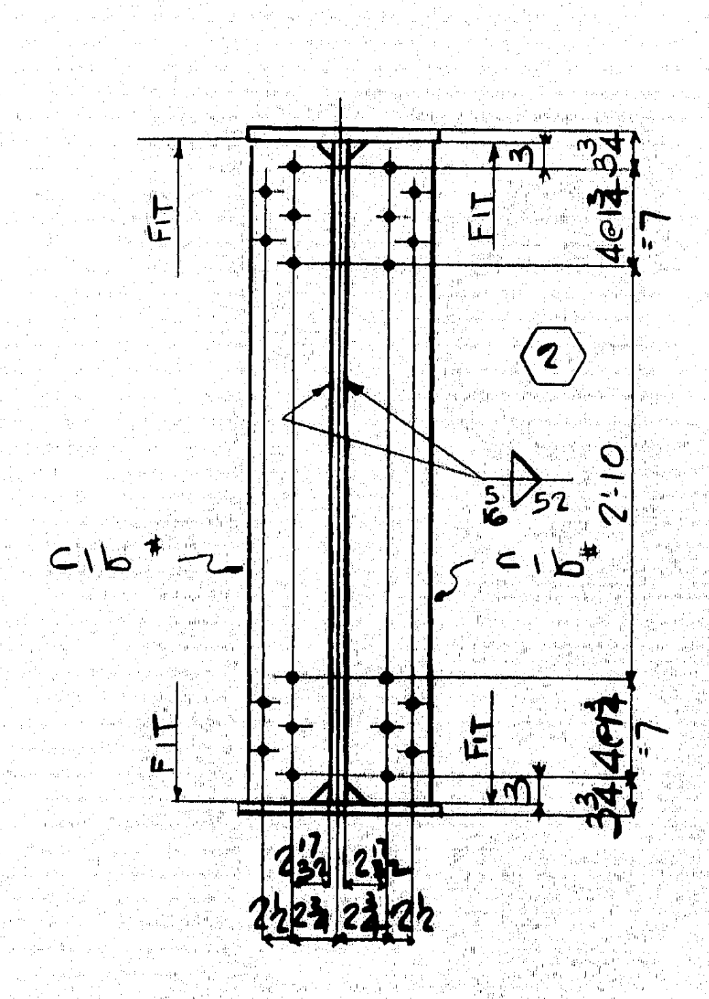


SECT. (A) (DEVELOPED)



SECT. (B) (DEVELOPED)



SECT. (C) (DEVELOPED)

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

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

E7

SHOP BILL / MILL ORDER

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	G13-14									
2	a	1	PL	54		1/2	37	3 3/4	56 x 1/2	38	1 1/2	26	08
3	b	1	PL	54		7/16	56	8 3/8	56 1/2 x 7/16	58	2 1/2	26	05
4	c	1	PLU	16		1 1/4	37	1 9/16		37	7	26	14
5	d	1	PLU	16		1 1/4	37	3 13/16		37	7	26	14
6	f	1	PLU	16		3/4	56	8 9/16		56	11 3/4	26	18
7	g	1	PLU	16		3/4	56	6 5/16		56	11 3/4	26	18
8	h	1	PL	8		1/2	4	2		30	6	J	
9	k	1	PL	16		1 15/32 x 17/32	1	0	C.F. 1 9/16 ℄			J	
10	m	1	PL	16		1 15/32 x 17/32	1	0	C.F. 1 9/16 ℄			J	
11													
12													
13													
14													
15													
16													
17													
18													
19													
20	C2by#	2	PL	16		1/2	1	0 29/32		20	2	24	46
21													
22	C1akR/L#	1/1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
23													
24	C1b#	4	BR	7		1/2	4	6	F2E	18	4	24	51
25													
26	US2	1	UPPER SHOE						DET. ON DWG #2				
27													
28													
29	FW	1	WD			3/16	1	4					
30	FWL	1	WD			3/16	375	3 1/2					
31	FWS	1	WD			5/16	52	0					
32	FW	1	WD			1/2	1	2					
33	SDS	1	WD			7/16	4	6					
34	V60S	1	WD			3/4	2	8					
35	FW	1	WD			3/8	8	4					
36	SD	1	WD			3/16	0	8					
37													
38													
39													
40													
41													
42													

INST. 13E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G13-14	GIRDER (60x16x94'-1)	

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

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

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]-28 LOW HYDROGEN ELECTRODES OR [illegible] FOR WELDING.

[illegible]	[illegible]
[illegible] 1/2" [illegible] 2 1/2"	[illegible]

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

PAY ITEM · 504.711

GIRDER

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		

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

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

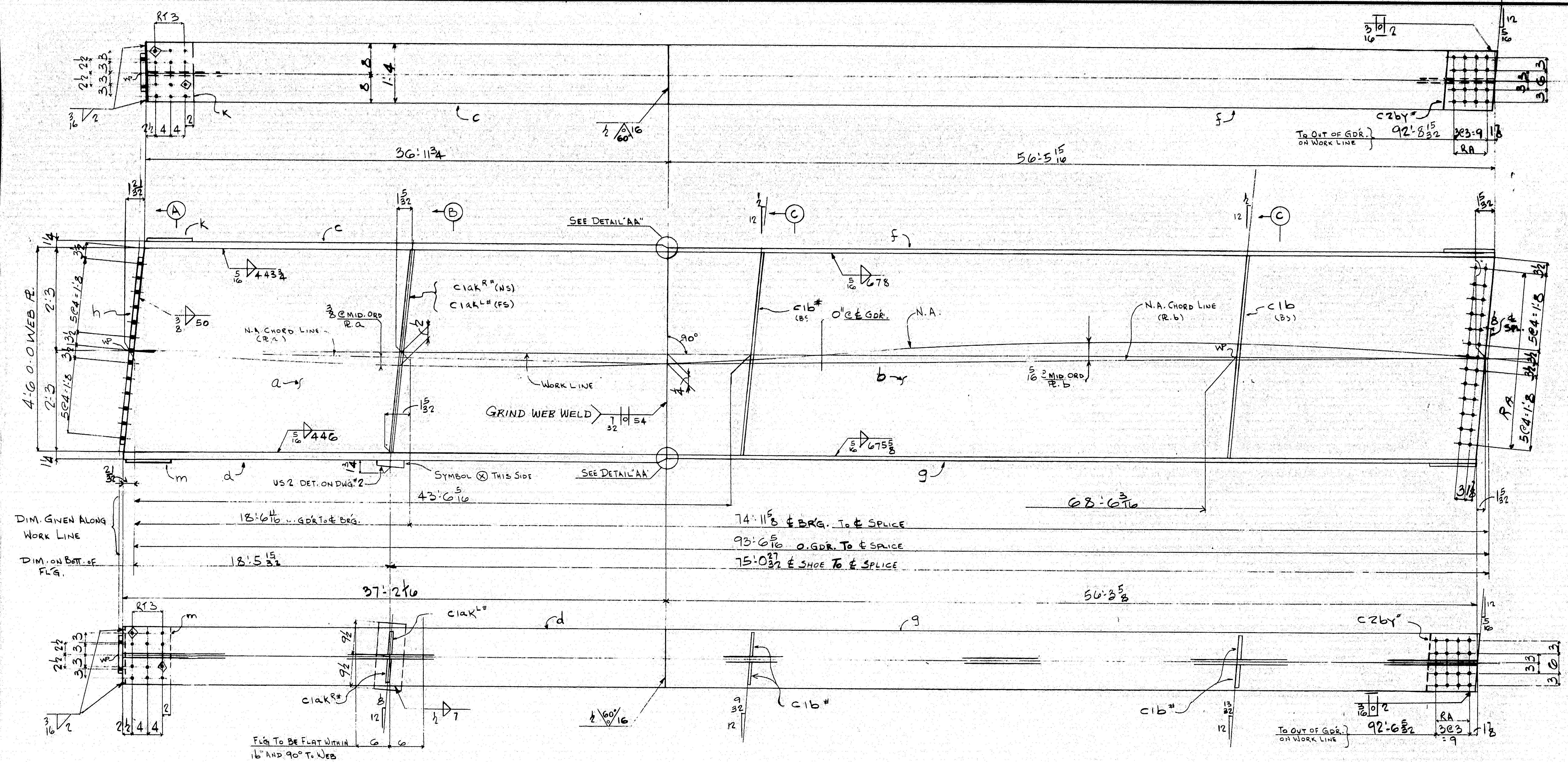
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RDN DATE 8-14-69 IN CHARGE B.K. BERTOLET
CHECKED BY RG DATE 9-11-69 SHOP NO. 2
CONTRACT 53-6249-020 DRAWING NO. 262

3

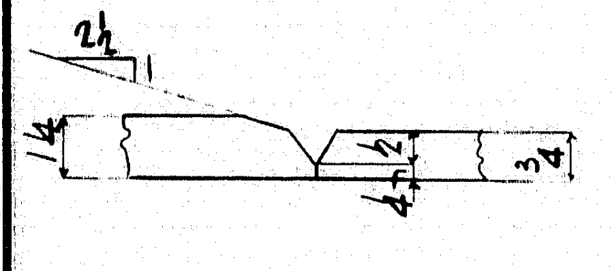
107-63

OCT 20

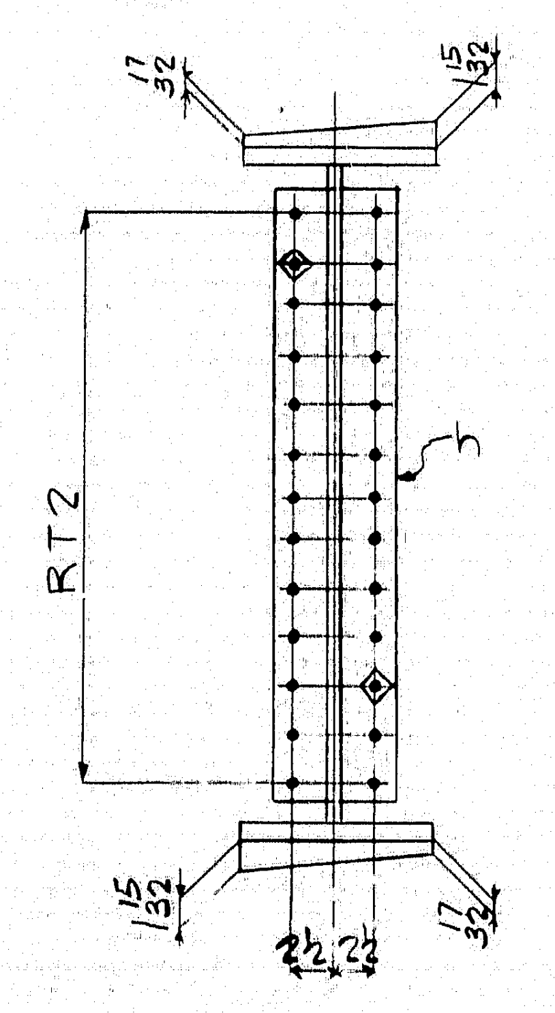
0 1 2 3 4 5 INCHES



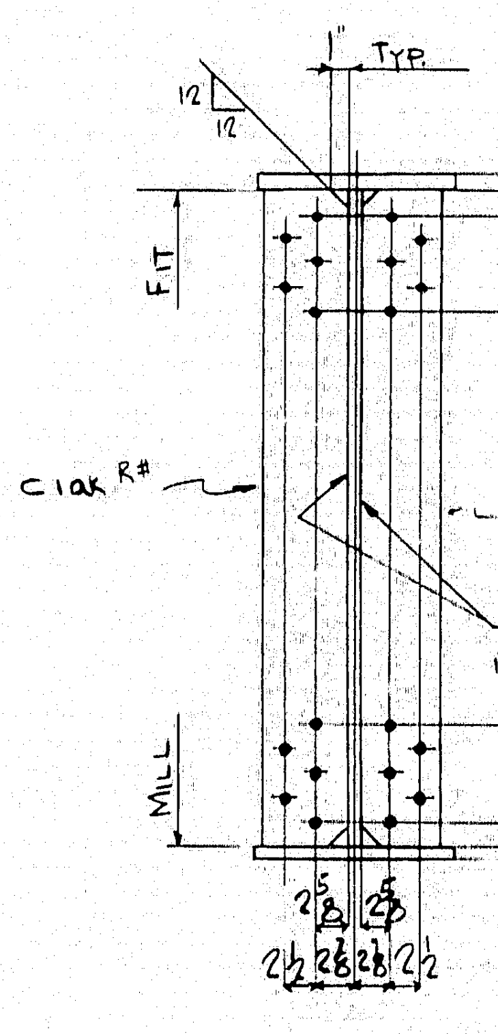
GIRDER - G13-15



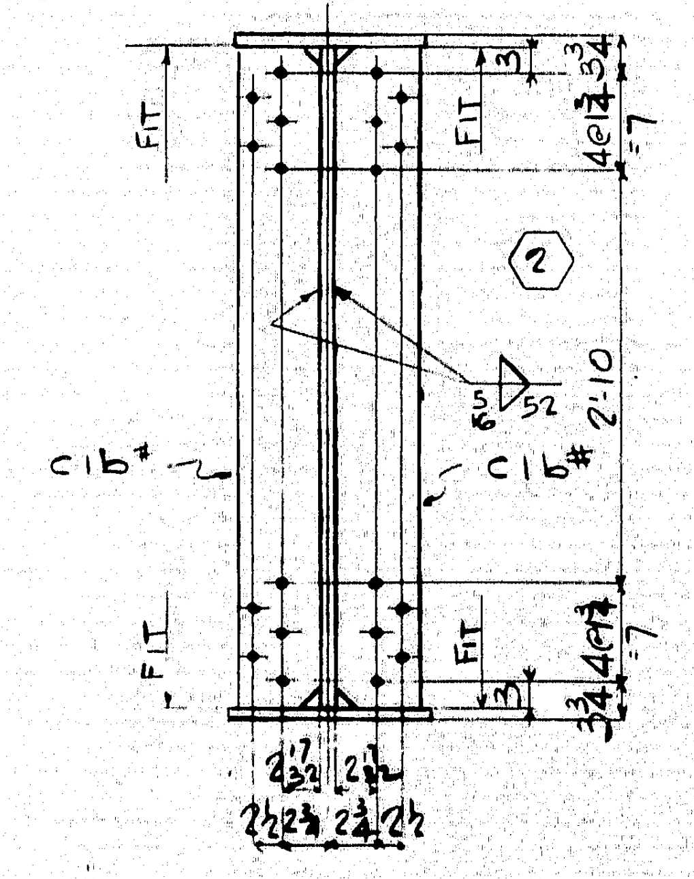
DETAIL "AA"



SECT. Ⓐ (DEVELOPED)



SECT. Ⓑ (DEVELOPED)



SECT. Ⓒ (DEVELOPED)

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

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

E7

SHOP BILL										MILL ORDER			
LINE	ASSEMBLY MARK	NO.	SHAPE	SECTION Size	SECTION Size or Pounds	SECTION Thick	LENGTH Ft.	LENGTH In.	REMARKS	LENGTH Ft.	LENGTH In.	ITEM Page	ITEM Line
1			1 - GIRDER	G13-15									
2	a	1	PL	54		1/2	37	2 1/16	56 x 1/2	38	1 1/2	26	08
3	b	1	PL	54		7/16	56	5 15/16	56 1/2 x 7/16	58	2 1/2	26	05
4	c	1	PLU	16		1 1/4	36	11 3/4		37	7	26	14
5	d	1	PLU	16		1 1/4	37	2 1/16		37	7	26	14
6	f	1	PLU	16		3/4	56	6 1/8		56	11 3/4	26	18
7	g	1	PLU	16		3/4	56	3 13/16		56	11 3/4	26	18
8	h	1	PL	8		1/2	4	2		30	6	J	
9	k	1	PL	16		1 15/32 x 17/32	1	0	C.F. 1 9/16 PL			J	
10	m	1	PL	16		1 15/32 x 17/32	1	0	C.F. 1 9/16 PL			J	
11													
12													
13													
14													
15													
16													
17													
18													
19													
20	c2by#	2	PL	16		1/2	1	0 29/32		20	2	24	46
21													
22	c1akR#/L#	1/1	BR	7 1/2		3/4	4	6 1/32	M1E F1E	18	4	24	49
23													
24	c1b#	4	BR	7		1/2	4	6	F2E	18	4	24	51
25													
26	US2	1	UPPER SHOE						DET. ON DWG #2				
27													
28													
29	FW	1	WD			3/16	1	4					
30	FWL	1	WD			5/16	373	10 3/4					
31	FWS	1	WD			5/16	52	0					
32	FW	1	WD			1/2	1	2					
33	SDS	1	WD			7/16	4	6					
34	V60S	1	WD			3/4	2	8					
35	FW	1	WD			3/8	8	4					
36	SD	1	WD			3/16	0	8					
37													
38													
39													
40													
41													
42													

INST. 13E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G13-15	GIRDER (60x16x93'-9)	

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

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

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

ALL OPEN HOLES - NP 3

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

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

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

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

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

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

PAY ITEM · 504.711

GIRDER

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

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

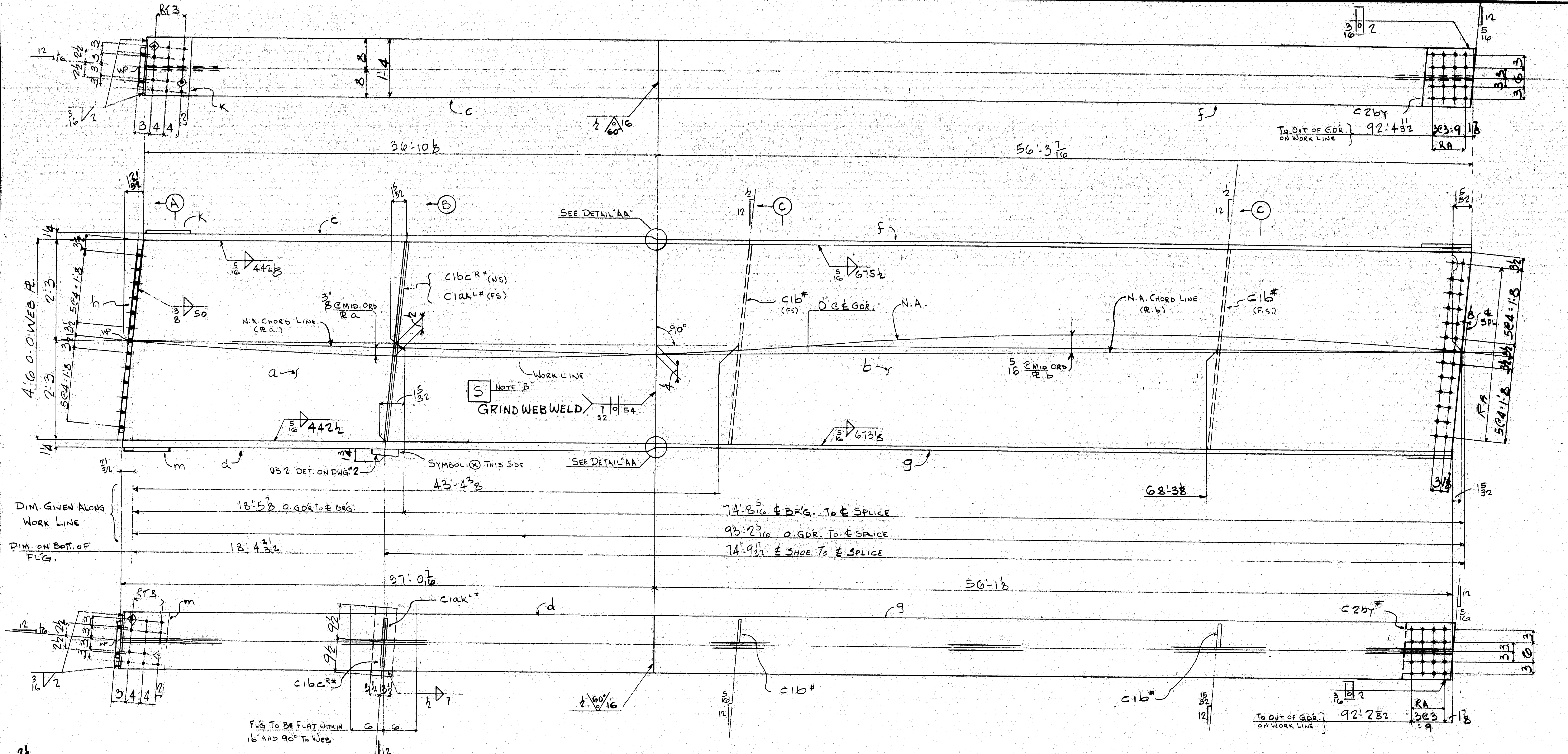
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY R.D.N DATE 8-14-69 IN CHARGE B.K. BERTOLET
CHECKED BY FRG DATE 9/11/69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 263

3 1

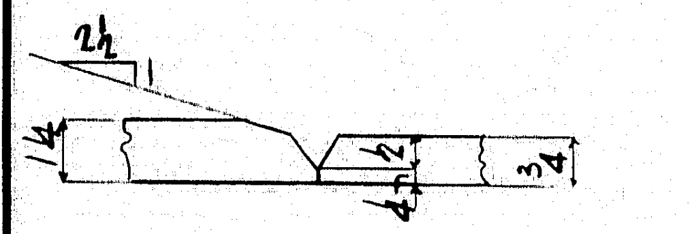
35433 (Rev. A 1-69)

107-64

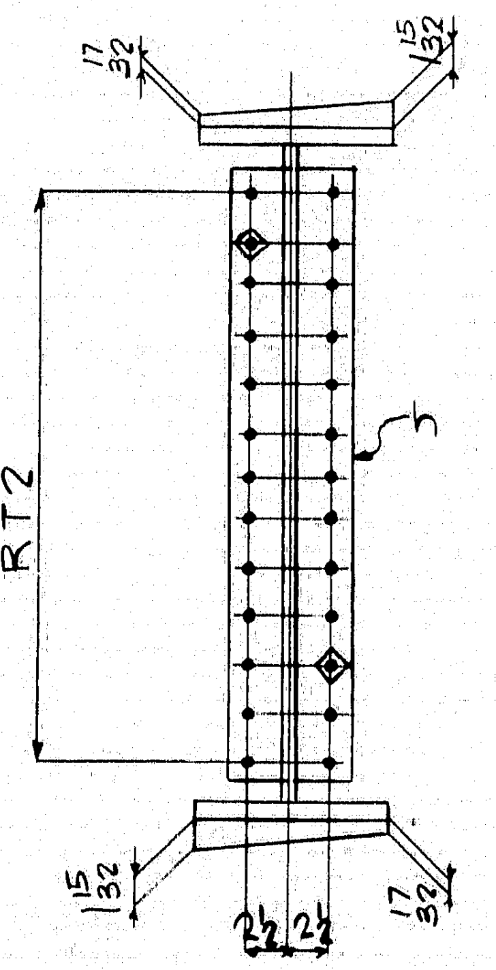
OCT 20



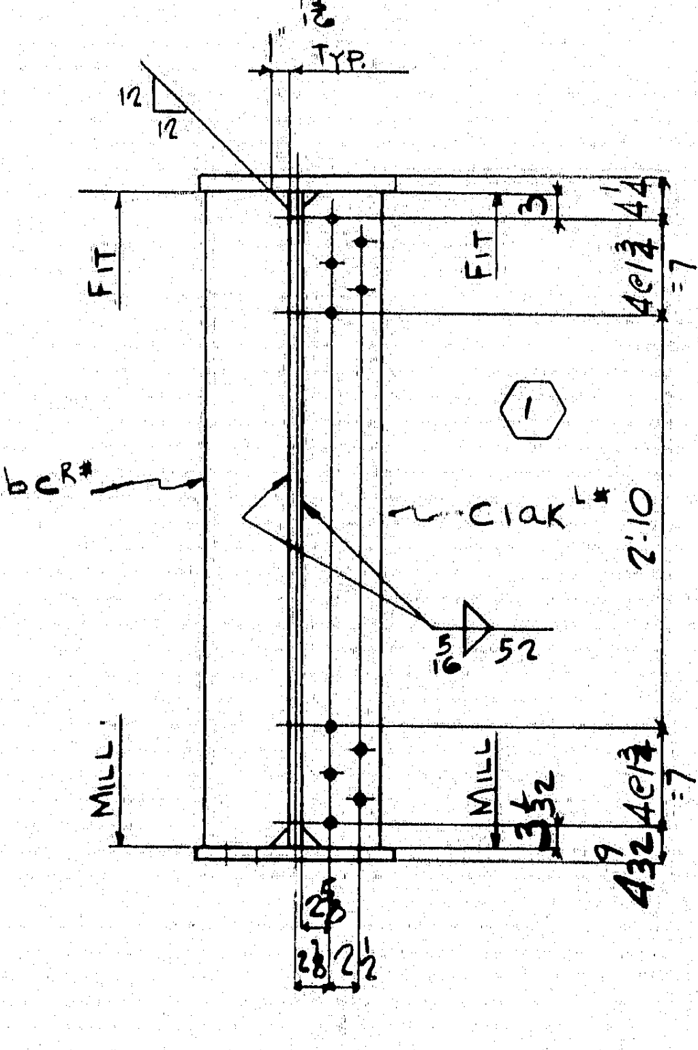
GIRDER - G13-16



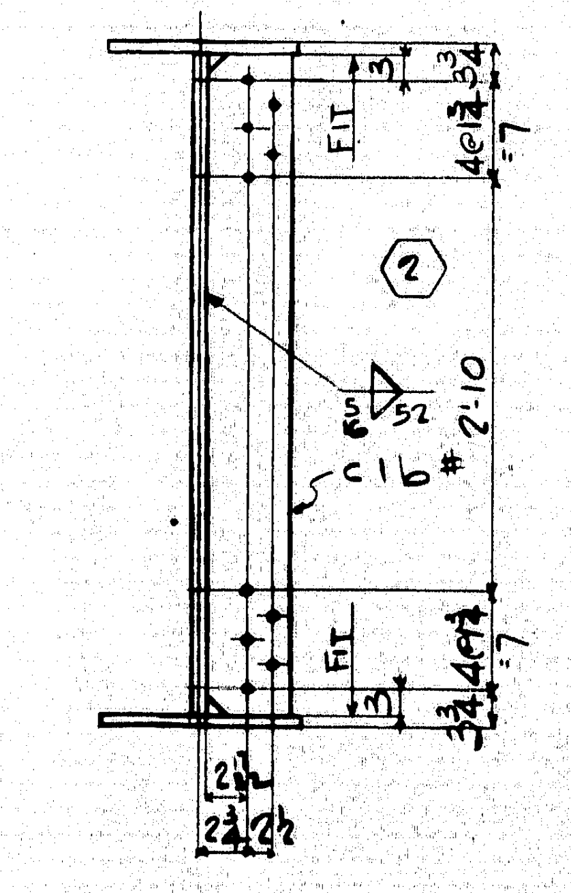
DETAIL "AA"



SECT. Ⓐ (DEVELOPED)



SECT. Ⓑ (DEVELOPED)



SECT. Ⓒ (DEVELOPED)

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 G13-16										
2	a	1	PL	54		1/2	37	0 7/16	56×1/2	38	1 1/2	26	08
3	b	1	PL	54		7/16	56	3 7/16	56 1/2×7/16	58	2 1/2	26	05
4	c	1	PLU	16		1 1/4	36	10 5/32		37	7	26	14
5	d	1	PLU	16		1 1/4	37	0 15/32		37	7	26	14
6	f	1	PLU	16		3/4	56	3 5/8		56	11 3/4	26	18
7	g	1	PLU	16		3/4	56	1 5/16		56	11 3/4	26	18
8	h	1	PL	8		1/2	4	2		30	6	J	
9	k	1	PL	16		1 15/32 × 17/32	1	0	C.F. 1 9/16 PL			J	
10	m	1	PL	16		1 15/32 × 17/32	1	0	C.F. 1 9/16 PL			J	
11													
12													
13													
14													
15													
16													
17													
18													
19													
20	C 2by#	2	PL	16		1/2	1	0 29/32		20	2	24	46
21	C 1bc R#	1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
22	C 1ak L#	1	BR	7 1/2		3/4	4	6 1/32	MIE FIE	18	4	24	49
23													
24	C 1b#	2	BR	7		1/2	4	6	F2E	18	4	24	51
25													
26	US2	1	UPPER SHOE						DET. ON DWG #2				
27													
28													
29	FW	1	WD			3/16	1	4					
30	FWL	1	WD			5/16	372	6 1/4					
31	FWS	1	WD			5/16	34	8					
32	FW	1	WD			1/2	1	2					
33	SDS	1	WD			7/16	4	6					
34	V60S	1	WD			3/4	2	8					
35	FW	1	WD			3/8	8	4					
36	SD	1	WD			3/16	0	8					
37													
38													
39													
40													
41													
42													

	a	b	c
a			
b			
c			
d			
e			
f			
g			
h			
k			
m			
n			
p			
r			
s			
t			
v			
y			

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

E7

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

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 - HP 3

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

USE E7016, 18, 28 LOW HYDROGEN ELECTRODES OR [illegible] 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. OVER 3/4" TO 1 1/2" OVER 1 1/2" TO 2 1/2" OVER 2 1/2"	[illegible]

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

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

INST. 13E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G13-16	GIRDER (60×16×93'-5)	

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										

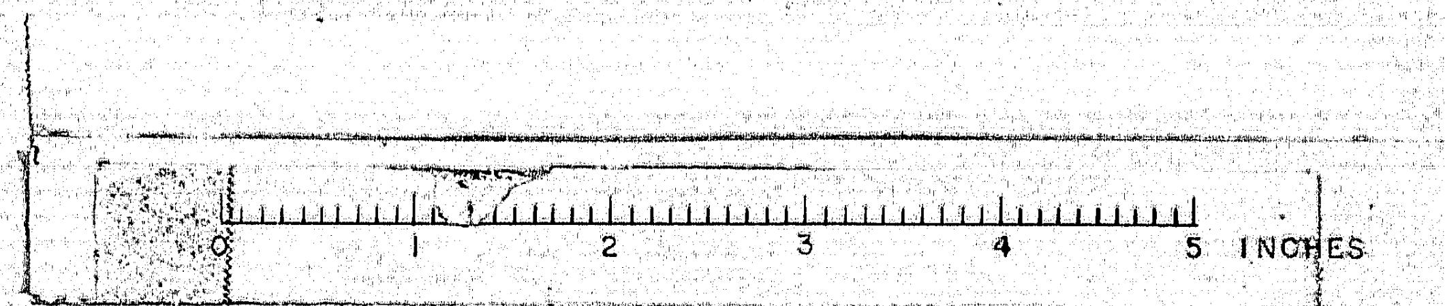
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
~~STRUCTURE~~ PROJECT No. I-95-1(22) 16
CONT. No. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL

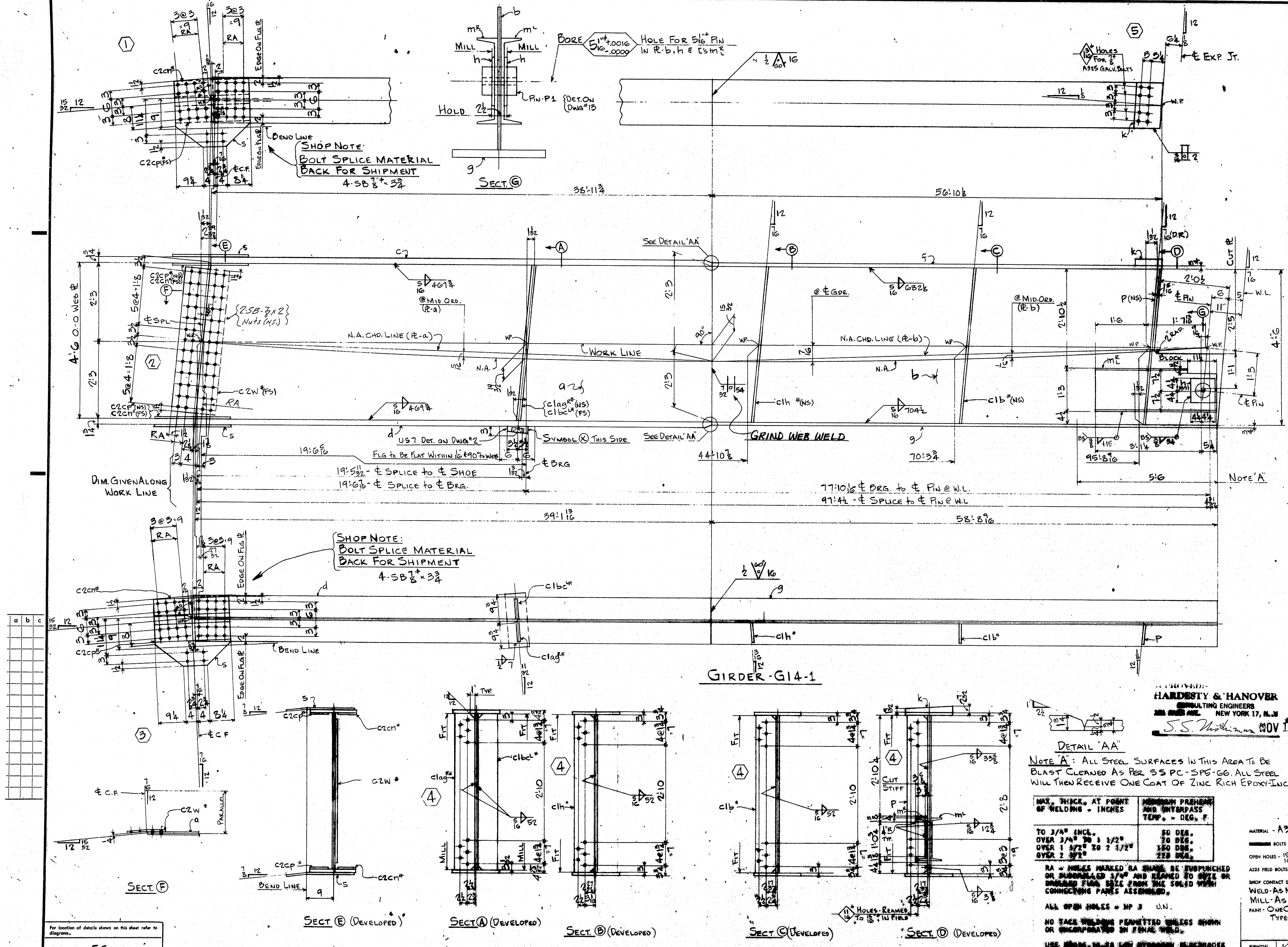
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RDN DATE 8-14-69 IN CHARGE B.K. BERTOLET
CHECKED BY FCG DATE 9-11-69 SHOP NO. 2
CONTRACT 53-6249-020 DRAWING NO. 264

3 1 107-65

35420 (Rev.A 1-65) OCT 20 1969





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-G14-1												
2		a	1	PL	54		1/2	39	1 15/16	56 × 1/2	39	6 1/2	2	74
3		b	1	PL	54		7/16	58	9 9/16	56 1/2 × 7/16	59	7 1/4	2	71
4		c	1	PLU	16		1 3/4	39	0 1/16	16 × 1 3/4	39	4 1/4	3	70
5		d	1	PLU	16		1 3/4	39	2 1/8	" "	39	4 1/4	3	70
6		f	1	PLU	16		3/4	56	10 3/16	16 × 3/4	57	1	4	74
7		g	1	PLU	16		3/4	58	8 9/16	" "	59	4	4	71
8	C	2w*	1	PLU	13		3/8	4	2	BENT	21	1	24	48
9	C	2cn*	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
10	C	2cp*	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
11	C	1ag RA	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE	18	4	24	49
12	C	1bc LA	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE	18	4	24	49
13	C	1h*	1	BR	7		1/2	4	6	F2E	18	4	24	51
14	C	1b*	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		15/32	0	8 1/2	MIS (CF 3/4" ℄)			J	
17		k	1	PL	8	(2 7/32 × 1 9/32)		1	4 1/16	BEV. CF34X2 3/8			J	
18		US7	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														
23														
24		FW	1	WO			3/8	24	11					
25		FWL	1	WO			5/16	387	4 4					
26		FW5	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		SD	1	WO			3/16	0	4					
32														
33														
34			8	SB	7/8φ			0	3 3/4					
35			2	SB	7/8			0	2					
36														
37														
38														
39														
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														

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

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 3/4" 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 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)

INST "14W"

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G14-1	GIRDER (62 1/4 × 25 1/2 - 95'-6)	

PAY ITEM - 504711

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 9-3-69 IN CHARGE B.K. [illegible]
CHECKED BY RG DATE 9/17/69 SHOP NO. 2
CONTRACT CJ-G349-020 DRAWING NO. 26F

NO.	DATE	INIT.
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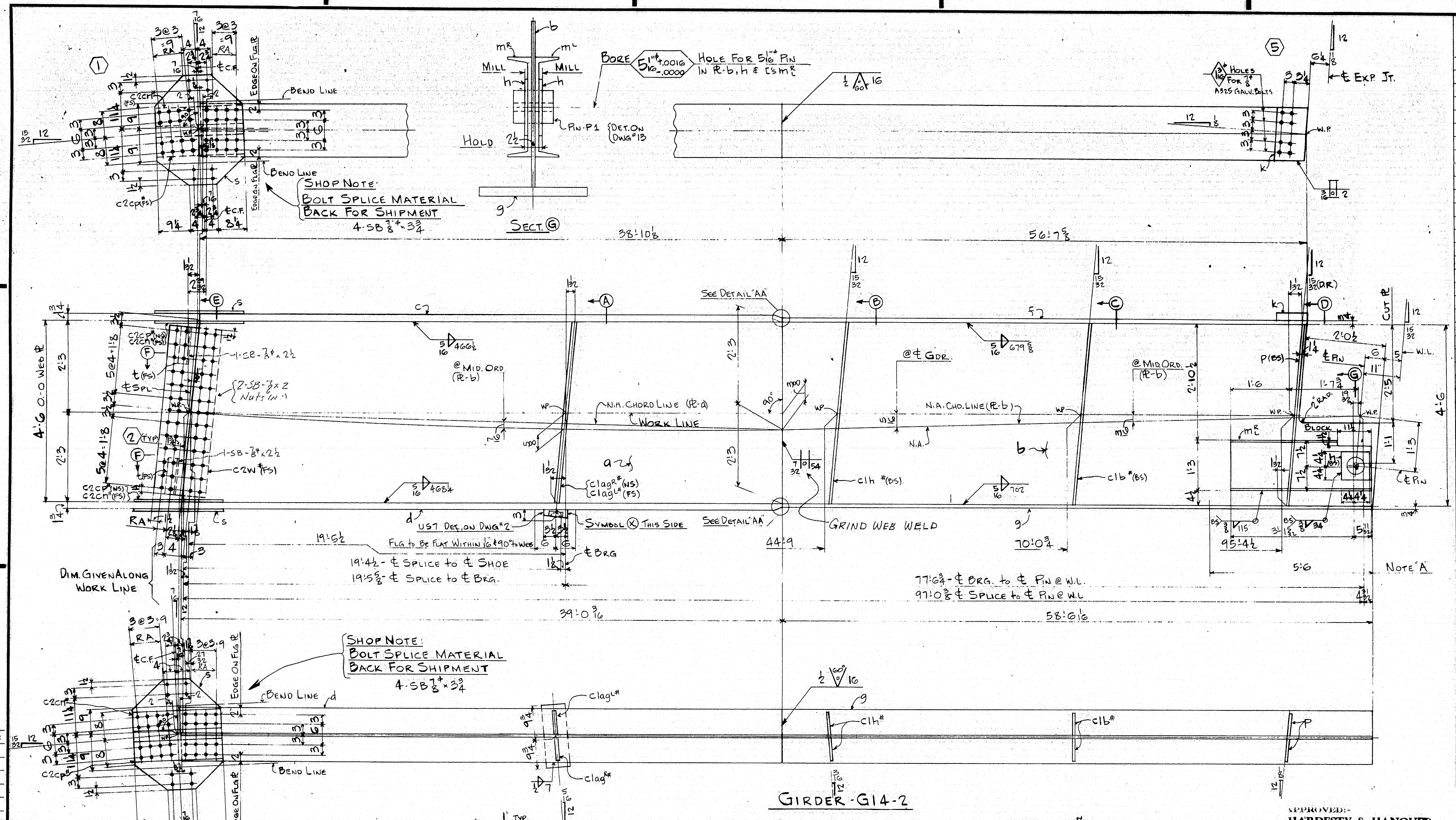
REVISION

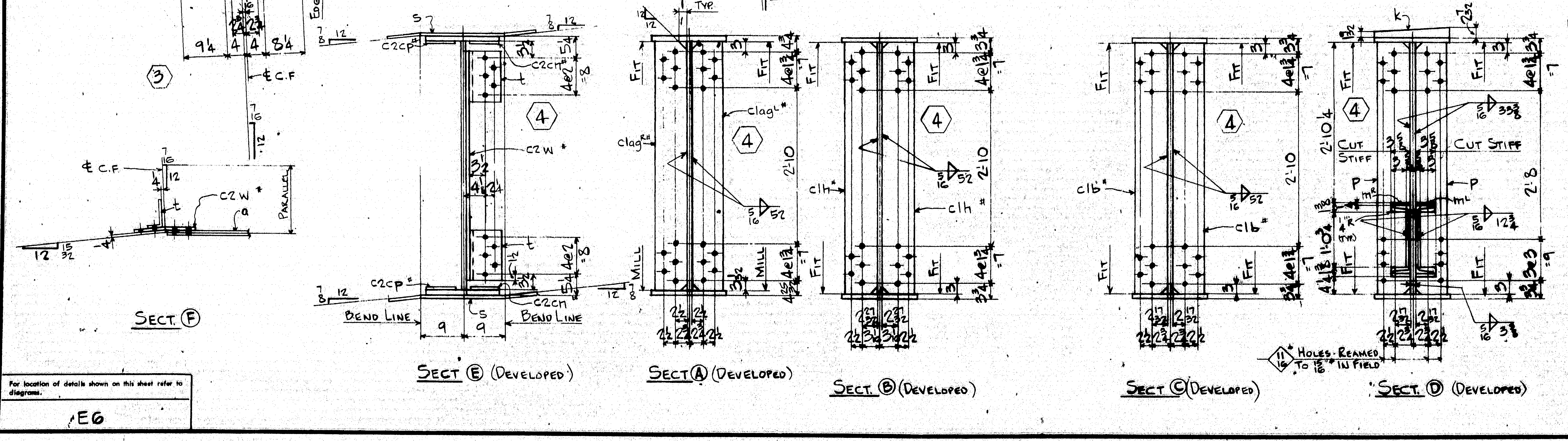
SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

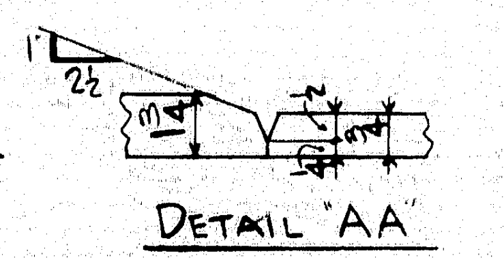
For location of details shown on this sheet refer to diagrams.
E6

3-SCHWARZ 2'-11-51" - TON A [illegible]

0 1 2 3 4 5 INCHES






Detail "AA"

Line		Assembly Mark	No.	Shape	Section Size	Section Size or Pounds	Thick	Length Ft.	Length In.	Remarks	Mill Order Length Ft.	Mill Order Length In.	Item Page	Item Line
1		One-Girder-G14-2									-		-	
2		a	1	PL	54		1/2	39	0 3/16	56×1/2	39	6 1/2	2	74
3		b	1	PL	54		7/16	58	7 1/16	56 1/2×7/16	59	7 1/4	2	71
4		c	1	PLU	16		1 3/4	38	10 7/16	16×1 3/4	39	4 1/4	3	70
5		d	1	PLU	16		1 3/4	39	0 1/2	" "	39.	4 1/4	3	70
6		f	1	PLU	16		3/4	56	7 11/16	16×3/4	57	1	4	74
7		g	1	PLU	16		3/4	58	6 1/16	" "	59	4	4	71
8	C	2w*	1	PLU	13		3/8	4	2	Bent	21	1	24	48
9	C	2cn*	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
10	C	2cp*	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	1b*	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		15/32	0	8 1/2	MIS(CF 3/4 ℞)			J	
17		k	1	PL	8	(2 7/32×1 9/32)		1	4 1/16	Bev. CF34X2 3/8			J	
18		US7	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														
24		FW	1	WO			3/8	24	11					
25		FWL	1	WO			5/16	386	0					
26		FWS	1	WO			5/16	68	6					
27		FW	1	WO			1/2	1	2					
28		SDS	1	WO			7/16	4	6					
29		V60S	1	WO			3/4	2	8					
30														
31		SD	1	WO			3/16	0	4					
32														
33														
34			8	SB	7/8φ			0	3 3/4	}			M	
35			2	SB	7/8φ			0	2					
36			2	SB	7/8φ			0	2 1/2					
37														
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Approved:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S.S. Nishimura NOV 18 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 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 - 7/8φ
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)

Pay Item - 504711

Inst "14W"

Required List			
Qty	Shipping Mark	Description	Remarks
One	G14-2	Girder (62 7/8×31 1/2×98'-3)	

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

Revision No.	Date	Init.
0		
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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 9-3-69 In Charge B.K. Bertolet
Checked by FRG Date 9-17-69 Shop No. 2
Contract CJ-6249-020 Drawing No. 266

1+3L

For location of details shown on this sheet refer to diagrams.
E6

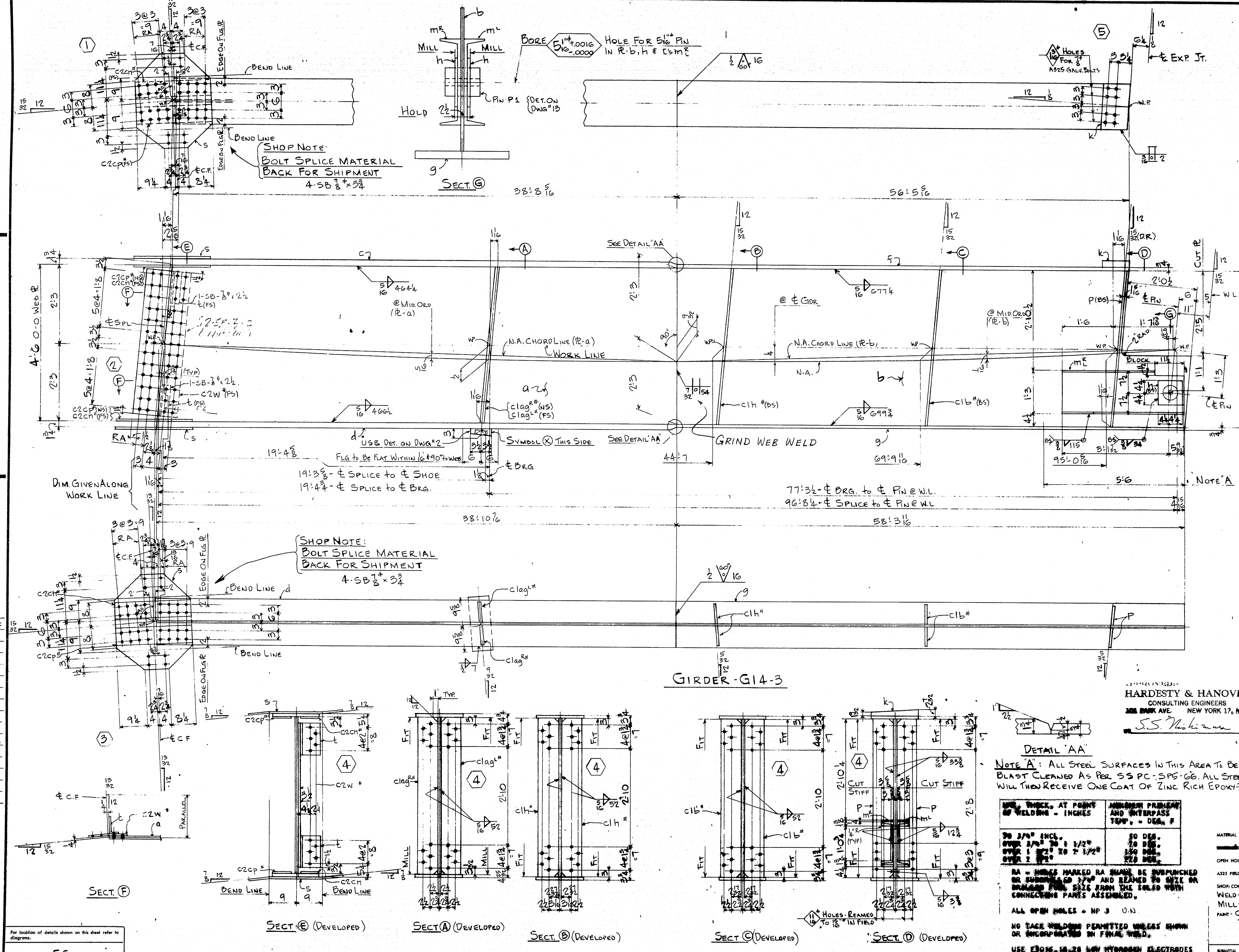
a	b	c

3-Schwarz ∡ 2°-12'-43" - Tan A = 8.58687

107-67

OCT 28 196

0 1 2 3 4 5 Inches



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

SHOP BILL										MILL ORDER			
LINE	ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	LENGTH FT.	LENGTH IN.	ITEM PAGE	ITEM LINE
1	ONE - GIRDER - G14-3												
2	a	1	PL	54		1/2	38	10 7/16	56 × 1/2	39	6 1/2	2	74
3	b	1	PL	54		7/16	58	4 3/4	56 1/2 × 7/16	58	10	2	72
4	c	1	PLU	16		1 3/4	38	8 9/16	16 × 1 3/4	39	4 1/4	3	70
5	d	1	PLU	16		1 3/4	38	10 11/16	" "	39	4 1/4	3	70
6	f	1	PLU	16		3/4	56	5 3/8	16 × 3/4	57	1	4	74
7	g	1	PLU	16		3/4	58	3 11/16	" "	59	4	4	71
8	C 2w*	1	PLU	13		3/8	4	2	BENT	21	1	24	48
9	C 2ch*	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
10	C 2cp*	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 1/32	MIE-FIE	18	4	24	49
12	C 1ag^L*	1	BR	7 1/2		3/4	4	6 1/32	MIE-FIE	18	4	24	49
13	C 1b.*	2	BR	7		1/2	4	6	F2E	18	4	24	51
14	C 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		15/32	0	8 1/2	MIS (CF 3/4 ℞)			J	
17	k	1	PL	8	(2 3/32 × 1 9/32)		1	4 1/16	BEV. CF34X2 3/8			J	
18	US8	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													
24	FW	1	WD			3/8	24	11					
25	FWL	1	WD			5/16	384	7 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													
31	SD	1	WD			3/16	0	4					
32													
33													
34		8	SB	7/8⌀			0	3 3/4				M	
35		2	SB	7/8⌀			0	2					
36		2	SB	7/8⌀			0	2 1/2					
37													
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INST. "14W"

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G14-3	GIRDER (62 7/8 × 31 1/2 × 97'-10)	

PAY ITEM - 504711

GIRDER

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT NO I 95-1(22) 16
CONT. NO. 5 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY DML DATE 9-4-69 IN CHARGE B.K. Bentzler
CHECKED BY RG DATE 9-17-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 267

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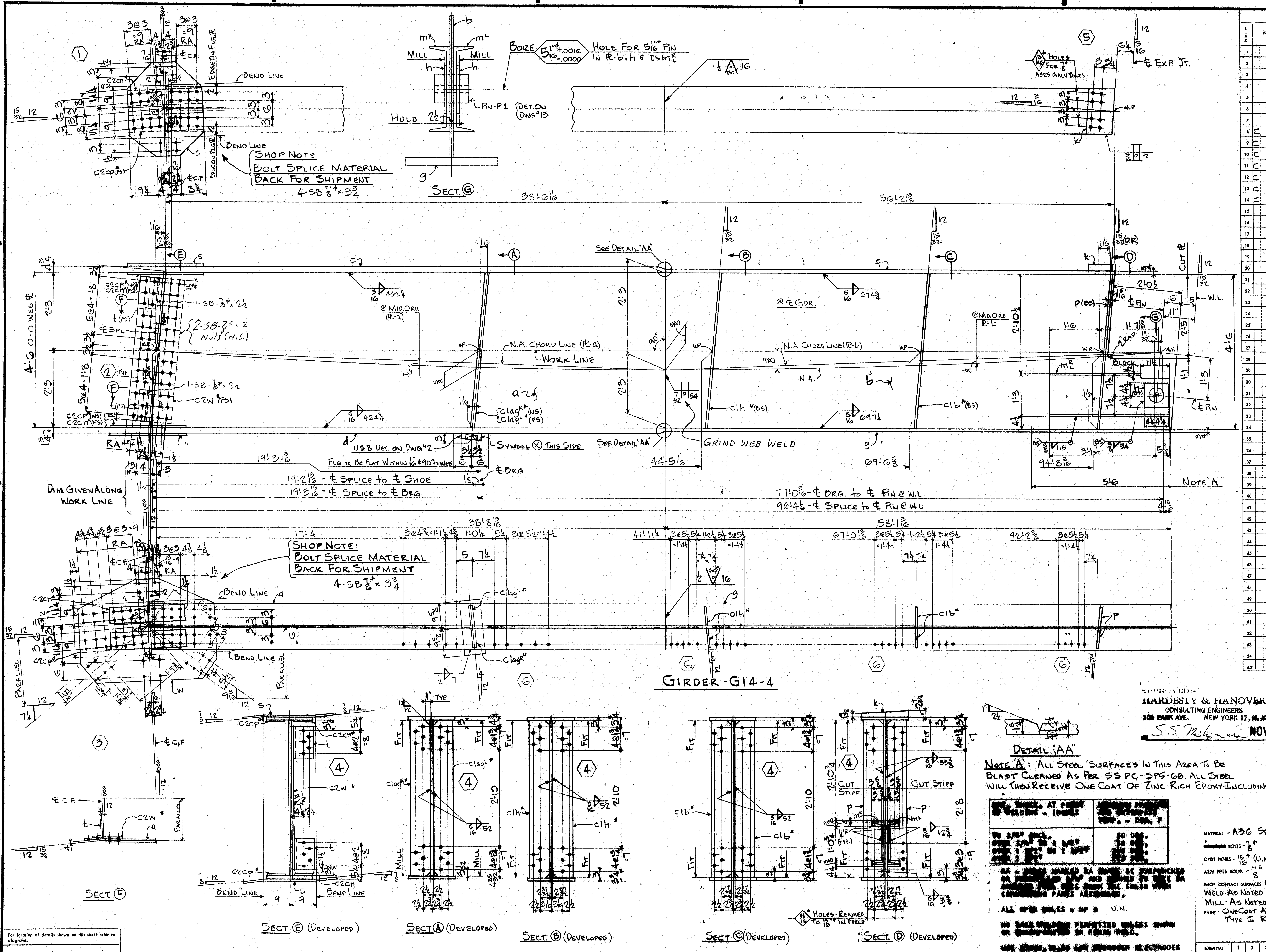
SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

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

E6

3-SCHWARZ ∡ 2°-13'-35" - TAN A = .038970 107-6 OCT 28 1969

0 1 2 3 4 5 INCHES



LINE	ASSEMBLY MARK		NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1		ONE-GIRDER-G14-4												
2		a	1	PL	54		$\frac{1}{2}$	38	$8\frac{13}{16}$	$56 \times \frac{1}{2}$	39	$6\frac{1}{2}$	2	74
3		b	1	PL	54		$\frac{7}{16}$	58	$2\frac{3}{16}$	$56\frac{1}{2} \times \frac{7}{16}$	58	10	2	72
4		c	1	PLU	16		$1\frac{3}{4}$	38	$6\frac{15}{16}$	$16 \times 1\frac{3}{4}$	39	$4\frac{1}{4}$	3	70
5		d	1	PLU	16		$1\frac{3}{4}$	38	$9\frac{1}{16}$	" "	39	$4\frac{1}{4}$	3	70
6		f	1	PLU	16		$\frac{3}{4}$	56	$2\frac{15}{16}$	$16 \times \frac{3}{4}$	57	1	4	74
7		g	1	PLU	16		$\frac{3}{4}$	58	$1\frac{3}{16}$	" "	58	$6\frac{1}{2}$	4	72
8	C	2w*	1	PLU	13		$\frac{3}{8}$	4	2	BENT	21	1	24	48
9	C	2cn*	2	BR	$6\frac{1}{2}$		$\frac{1}{2}$	2	$1\frac{1}{2}$		19	0	24	50
10	C	2cp*	2	BR	$6\frac{1}{2}$		$\frac{1}{2}$	2	$1\frac{1}{2}$		19	0	24	50
11	C	lag^{R}*	1	BR	$7\frac{1}{2}$		$\frac{3}{4}$	4	$6\frac{3}{32}$	MIE-FIE	18	4	24	49
12	C	lag^{L}*	1	BR	$7\frac{1}{2}$		$\frac{3}{4}$	4	$6\frac{3}{32}$	MIE-FIE	18	4	24	49
13	C	lh*	2	BR	7		$\frac{1}{2}$	4	6	F2E	18	4	24	51
14	C	lb	2	BR	7		$\frac{1}{2}$	4	6	F2E	18	4	24	51
15		P	2	BR	7		$\frac{1}{2}$	4	6	F2E	18	4	24	51
16		h	2	PL	$8\frac{1}{2}$		$\frac{15}{32}$	0	$8\frac{1}{2}$	MIS (CF $\frac{3}{4}$ ℄)			J	
17		k	1	PL	8	($2\frac{7}{32} \times 1\frac{9}{32}$)		1	$4\frac{1}{8}$	BEV. CF$34 \times 2\frac{3}{8}$			J	
18		USB	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	$6\frac{1}{2}$		44	8	24	42
21		s	1	PL	$25\frac{1}{2}$		$\frac{1}{2}$	2	$7\frac{1}{2}$	BENT	22	4	24	45
22		t	2	L	7	$3\frac{1}{4}$	$\frac{1}{2}$	0	11	BENT CF$7 \times 4 \times \frac{1}{2}$	40	0	36	39
23		W	1	PL	$34\frac{3}{4}$		$\frac{5}{8}$	4	$1\frac{1}{4}$	BENT $36 \times \frac{5}{8}$ MULTS			28	15
24		FW	1	WD			$\frac{3}{8}$	24	11					
25		FWL	1	WD			$\frac{5}{16}$	383	3					
26		FWS	1	WD			$\frac{5}{16}$	68	6					
27		FW	1	WD			$\frac{1}{2}$	1	2					
28		SDS	1	WD			$\frac{7}{16}$	4	6					
29		VGOS	1	WD			$\frac{3}{4}$	2	8					
30														
31		SD	1	WD			$\frac{3}{16}$	0	4					
32														
33														
34			8	SB	$\frac{7}{8}$φ			0	$3\frac{3}{4}$	}				
35			2	SB	$\frac{3}{4}$φ			0	2	}			~~M~~	
36			2	SB	$\frac{3}{4}$φ			0	$2\frac{1}{2}$	}				
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APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S. S. Nishimura NOV 18 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. OVER 3/4" TO 1 1/2" INCL. OVER 1 1/2" TO 2 1/2" INCL. OVER 2 1/2"	50 DEG. 70 DEG. 150 DEG. 225 DEG.

RA - HOLES MARKED RA SHALL BE SUBPUNCHED OR SUBDRILLED [illegible] AND REAMED TO STEEL OR [illegible] 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 E70XX, LOW HYDROGEN ELECTRODES OR [illegible] FOR WELDING.

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

INST. "14 W"

REQUIRED LIST.			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G14-4	GIRDER ($62\frac{7}{8} \times 34\frac{1}{2} \times 97'$-$6$)	

PAY ITEM - 504711

GIRDER

NO.	DATE	INIT.
0		
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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 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 9-5-69 IN CHARGE B.K. BERTOLET
CHECKED BY FRG DATE 9-17-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 268

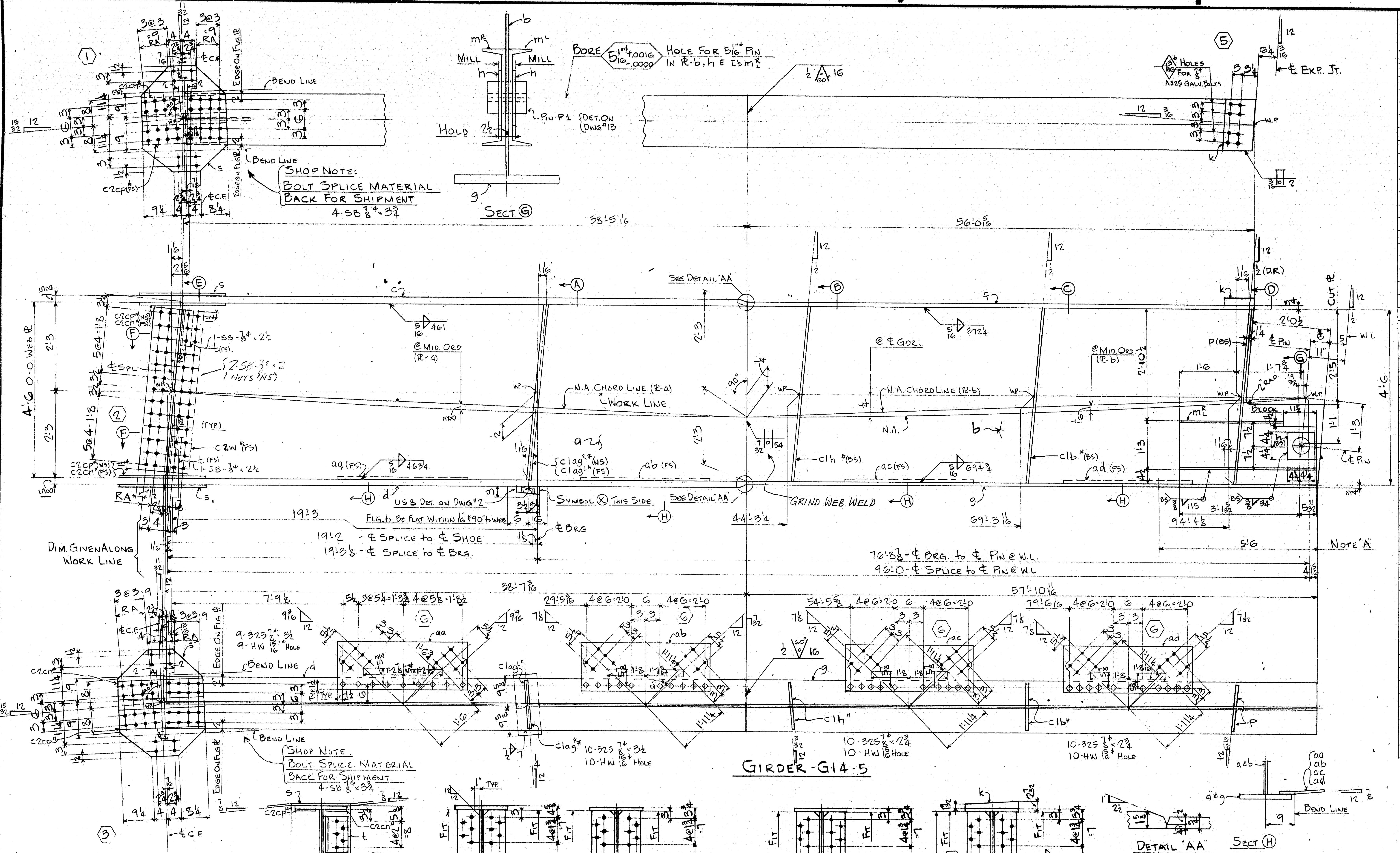
For location of details shown on this sheet refer to diagrams.

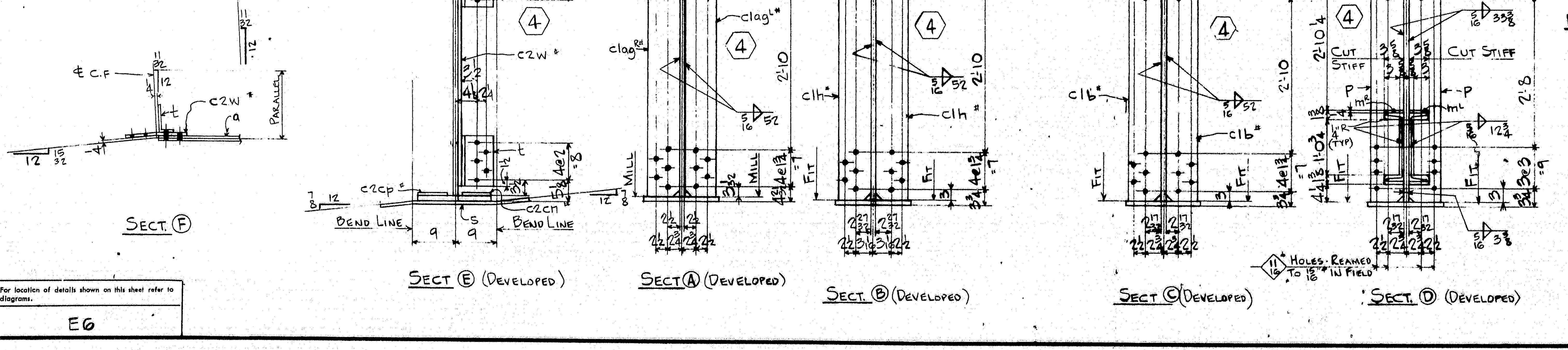
E6

55483 Rev.C 4-68 OCT 2 8 19

3-SCHWARZ ✱ 2°-14'-27" — TAN A = .059251

107-69





LINE	ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	PAGE	LINE
1	ONE-GIRDER-G14-5												
2	a	1	PL	54		$\frac{1}{2}$	38	$7\frac{3}{16}$	$56\times\frac{1}{2}$	39	$6\frac{1}{2}$	2	74
3	b	1	PL	54		$\frac{7}{16}$	57	$11\frac{11}{16}$	$56\frac{1}{2}\times\frac{7}{16}$	58	10	2	72
4	c	1	PLU	16		$1\frac{5}{8}$	38	$5\frac{5}{16}$	$16\times1\frac{5}{8}$	39	2	3	71
5	d	1	PLU	16		$1\frac{5}{8}$	38	$7\frac{7}{16}$	" "	39	2	3	71
6	f	1	PLU	16		$\frac{3}{4}$	56	$0\frac{1}{16}$	$16\times\frac{3}{4}$	56	2	4	75
7	g	1	PLU	16		$\frac{3}{4}$	57	$10\frac{11}{16}$	" "	58	$6\frac{1}{2}$	4	72
8	C 2w*	1	PLU	13		$\frac{3}{8}$	4	2	BENT	21	1	24	48
9	C 2cn*	2	BR	$6\frac{1}{2}$		$\frac{1}{2}$	2	$1\frac{1}{2}$		19	0	24	50
10	C 2cp*	2	BR	$6\frac{1}{2}$		$\frac{1}{2}$	2	$1\frac{1}{2}$		19	0	24	50
11	C $1ag^{R}$*	1	BR	$7\frac{1}{2}$		$\frac{3}{4}$	4	$6\frac{3}{32}$	MIE-FIE	18	4	24	49
12	C $1ag^{L}$*	1	BR	$7\frac{1}{2}$		$\frac{3}{4}$	4	$6\frac{3}{32}$	MIE-FIE	18	4	24	49
13	C 1b*	2	BR	7		$\frac{1}{2}$	4	6	F2E	18	4	24	51
14	C 1h*	2	BR	7		$\frac{1}{2}$	4	6	F2E	18	4	24	51
15	P	2	BR	7		$\frac{1}{2}$	4	6	F2E	18	4	24	51
16	h	2	PL	$8\frac{1}{2}$		$\frac{15}{32}$	0	$8\frac{1}{2}$	MIS (C.F. $\frac{3}{4}$⌀)			J	
17	k	1	PL	8		$(2\frac{3}{32}\times1\frac{9}{32})$	1	$4\frac{1}{8}$	BEV. $34\times2\frac{3}{8}$			J	
18	US8	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	$6\frac{1}{2}$		44	8	24	42
21	s	2	PL	$25\frac{1}{2}$		$\frac{1}{2}$	2	$7\frac{1}{2}$	BENT	22	4	24	45
22	t	2	L	7	$3\frac{1}{4}$	$\frac{1}{2}$	0	11	BENT CF $7\times4\times\frac{1}{2}$	40	0	36	39
23													
24	FW	1	WO			$\frac{3}{8}$	24	11					
25	FWL	1	WO			$\frac{5}{16}$	381	$10\frac{1}{2}$					
26	FWS	1	WO			$\frac{5}{16}$	68	6					
27	FW	1	WO			$\frac{1}{2}$	1	2					
28	SDS	1	WO			$\frac{7}{16}$	4	6					
29	VGOS	1	WO			$\frac{3}{4}$	2	8					
30													
31	SD	1	WO			$\frac{3}{16}$	0	4					
32		2	SB	$\frac{7}{8}$⌀			0	$2\frac{1}{2}$					
33		2	SB	$\frac{7}{8}$⌀			0	2					
34		8	SB	$\frac{7}{8}$⌀			0	$3\frac{3}{4}$				M	
35		19	325	$\frac{7}{8}$⌀			0	$3\frac{1}{2}$	H·H·H-H·H·N				
36		20	325	$\frac{7}{8}$⌀			0	$2\frac{3}{4}$	H·H·H-H·H·N				
37		39	HW	$1\frac{3}{4}$	$\frac{15}{16}$	$\frac{3}{16}$							
38													
39	aa	1	PL	$14\frac{1}{2}$		$\frac{5}{8}$	3	$8\frac{3}{4}$	BENT	26	0	28	19
40	ab	1	PL	$14\frac{1}{2}$		$\frac{5}{8}$	4	9	BENT	26	0	28	19
41	ac	1	PL	$14\frac{1}{2}$		$\frac{5}{8}$	4	9	BENT	26	0	28	19
42	ad	1	PL	$14\frac{1}{2}$		$\frac{5}{8}$	4	9	BENT	26	0	28	19
43													
44													
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48													
49													
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51													
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53													
54													
55													

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

INST "14W"

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G14-5	GIRDER ($62\frac{5}{8}\times31\frac{1}{2}\times97'1\frac{1}{2}$)	

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"	50 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 3/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - MP 3 U.N.

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

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

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

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

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

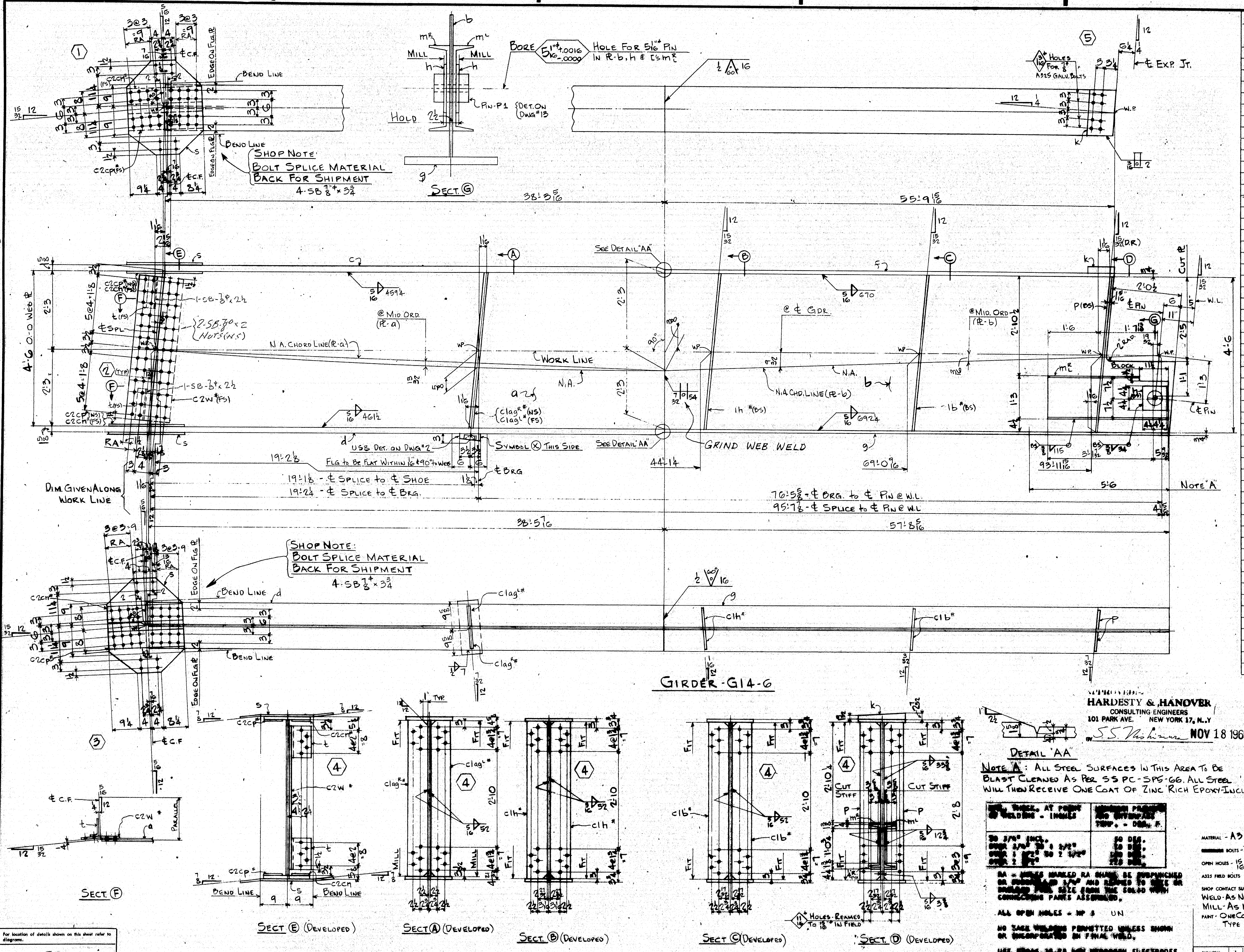
GIRDER

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 9-5-69 IN CHARGE B.K. [illegible]
CHECKED BY FRG DATE 9-17-69 SHOP NO. 2
CONTRACT CJ-G249-020 DRAWING NO. 269

For location of details shown on this sheet refer to diagrams.
E6

3-SCHWARZ ∡ 2°-15'-20" - TAN A = .59536

107-70



SHOP BILL

LINE	ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	PAGE	
1	One-Girder-G14-6												
2	a	1	PL	54		½	38	5 9/16	56×½	39	6½	2	74
3	b	1	PL	54		7/16	57	9 5/16	56½×7/16	58	10	2	72
4	c	1	PLU	16		1⅝	38	3½	16×1⅝	39	2	3	71
5	d	1	PLU	16		1⅝	38	5⅝	" "	39	2	3	70
6	f	1	PLU	16		¾	55	10⅛	16×¾	56	2	4	75
7	g	1	PLU	16		¾	57	8 5/16	" "	58	6½	4	72
8	C 2W*	1	PLU	13		⅜	4	2	Bent	21	1	24	48
9	C 2cn*	2	BR	6½		½	2	1½		19	0	24	50
10	C 2cp*	2	BR	6½		½	2	1½		19	0	24	50
11	C 1ag^R*	1	BR	7½		¾	4	6 3/32	MIE-FIE	18	4	24	49
12	C 1ag^L*	1	BR	7½		¾	4	6 3/32	MIE-FIE	18	4	24	49
13	C 1b*	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		15/32	0	8½	MIS (C.F. 4/℞)			J	
17	k	1	PL	8	(2 7/32×1 9/32)		1	4 3/16	Bev. CF34×2⅜			J	
18	US8	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													
24	FW	1	WD			⅜	24	11					
25	FWL	1	WD			5/16	380	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													
31	SD	1	WD			3/16	0	4					
32													
33													
34		8	SB	⅞ø			0	3¾				M	
35		2	SB	⅞ø			0	2					
36		2	SB	⅞ø			0	2½					
37													
38													
39													
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APPROVED:
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S. S. Nishimura NOV 18 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

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. 50 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 E7016, 18,28 LOW HYDROGEN ELECTRODES OR EQ. SAW-2 FOR WELDING.

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

Inst-"14N"

Required List			
Qty	Shipping Mark	Description	Remarks
One	G14-6	Girder (62⅝×51½×96'-5")	

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 2+3
MADE BY DML DATE 9-8-69 IN CHARGE B.K. [illegible]
CHECKED BY FRG DATE 9-17-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 270

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

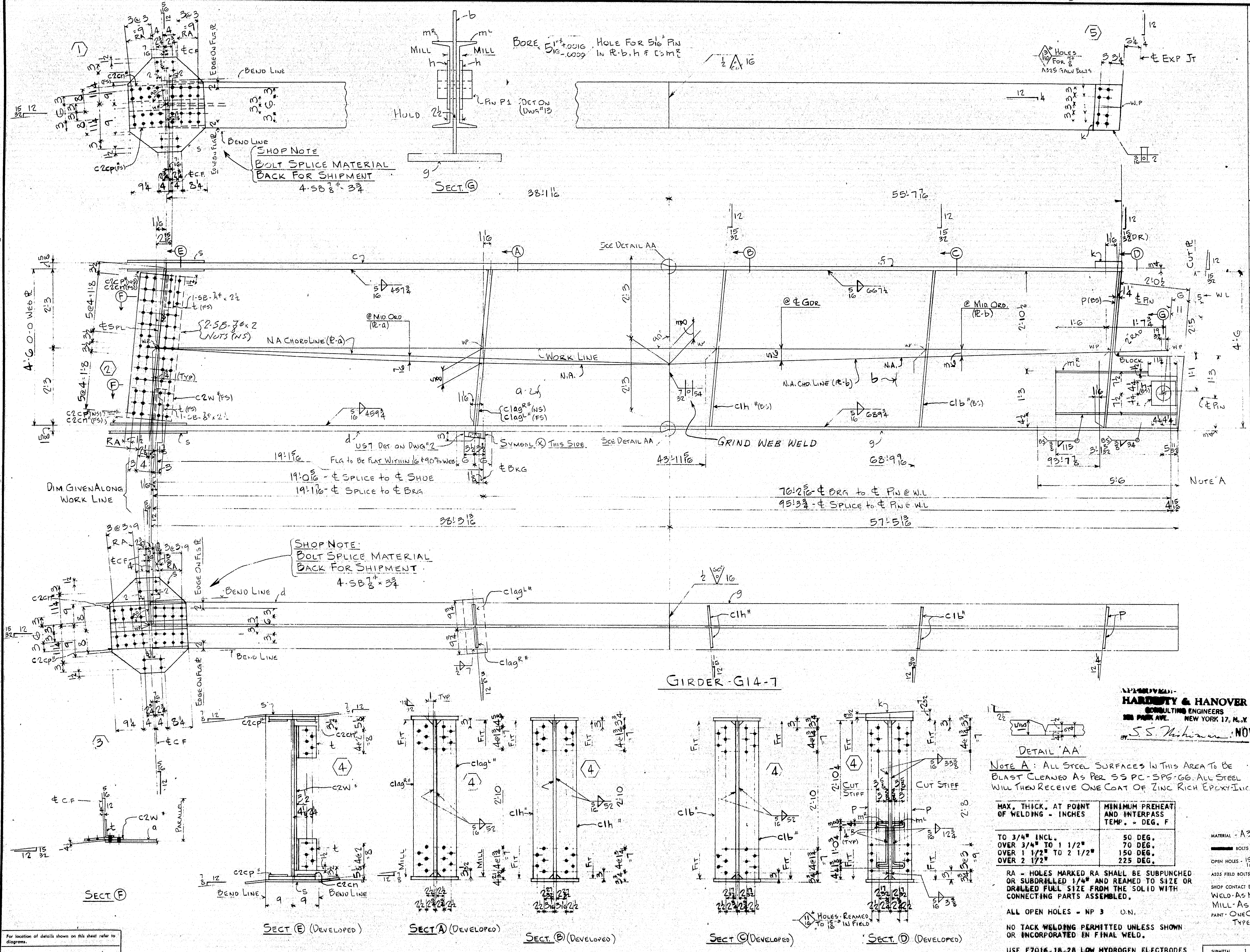
E6

3-Schwarz ⌀ 2'-10¼" - Tan A = 0.59824

107-71

OCT 28 1969

0 1 2 3 4 5 INCHES



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	One-Girder-G14-7												
2	a	1	PL	54		1/2	38	5 13/16	56 × 1/2	39	6 1/2	2	74
3	b	1	PL	54		7/16	57	6 13/16	56 1/2 × 7/16	58	10	2	72
4	c	1	PLU	16		1 5/8	38	1 7/8	16 × 1 5/8	38	4 3/4	3	69
5	d	1	PLU	16		1 5/8	38	4	" "	38	4 3/4	3	69
6	f	1	PLU	16		3/4	55	7 5/8	16 × 3/4	56	2	4	75
7	g	1	PLU	16		3/4	57	5 13/16	" "	57	9 3/4	4	73
8	C 2w*	1	PLU	13		3/8	4	2	Bent	21	1	24	48
9	C 2cn*	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
10	C 2cp*	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
11	C lagR*	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE	18	4	24	49
12	C lagL*	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE	18	4	24	49
13	C lb*	2	BR	7		1/2	4	6	F2E	18	4	24	51
14	C lh*	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		15/32	0	8 1/2	MIS (CF 3/4 R)			J	
17	k	1	PL	8		(2 7/32 × 1 9/32)	1	4 1/8	Bev. CF34×2 3/8			J	
18	US7	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													
24	FW	1	WO			3/8	24	11					
25	FWL	1	WO			5/16	39	1 1/2					
26	FWS	1	WO			5/16	68	6					
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													
31	SD	1	WO			3/16	0	4					
32													
33													
34		2	SB	7/8 ⌀			0	3 3/4					
35		2	SB	7/8 ⌀			0	2					
36		2	SB	7/8 ⌀			0	2 1/2					

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

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)

Inst "14W"

Required List			
Qty	Shipping Mark	Description	Remarks
One	G14-7	Girder (62 5/8 × 31 1/2 × 96'-5 1/4)	

Pay Item - 504711

Girder.

No.	Date	Init.
0		
9		
8		
7		
6		
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3		
2		
1		

REVISION

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

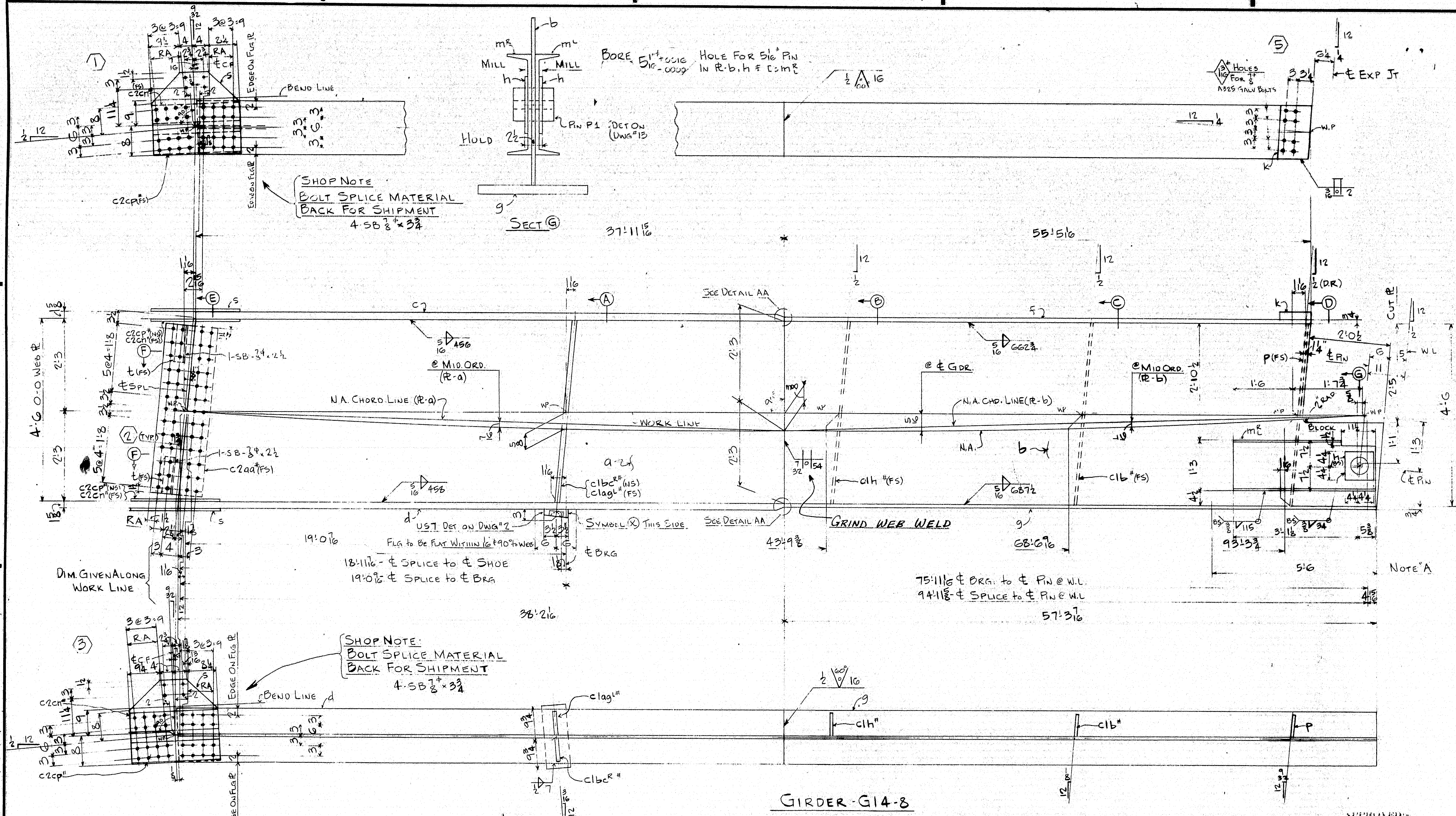
CUSTOMER
Maine State Highway Commission
Piscataqua River Bridge
Project No I95-1(22) 16
Cont. No. 3 - New Hampshire App
Structural Steel
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM Pottstown WORKS
MADE BY DML DATE 9-8-69 IN CHARGE B.K. Bertolet
CHECKED BY FRG DATE 9-17-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 271

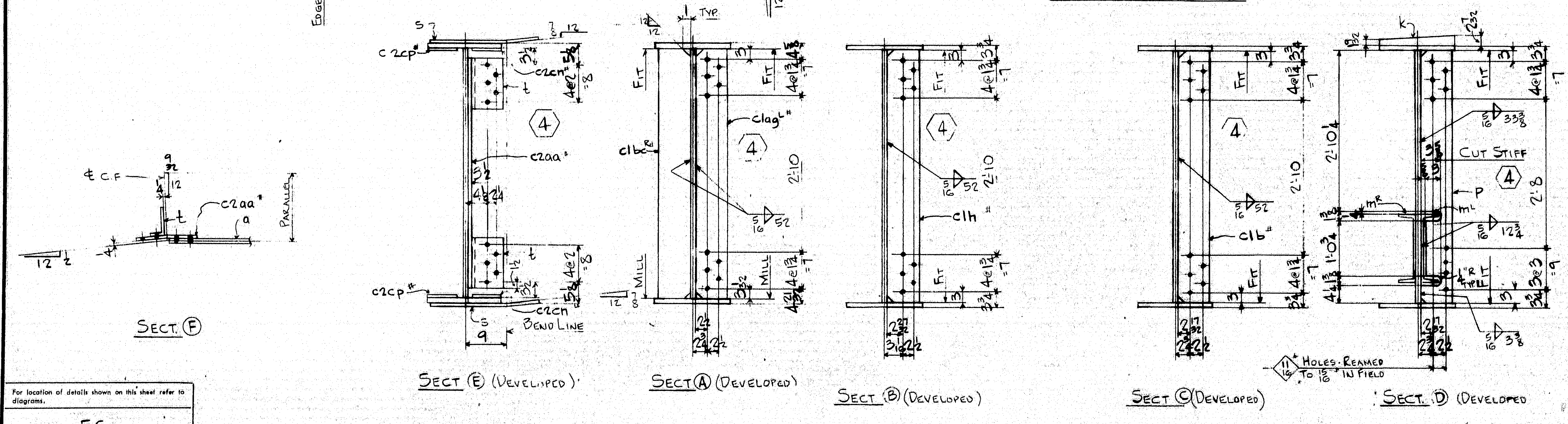
For location of details shown on this sheet refer to diagrams.

3-Schwarz ∢ 2°-17'-07" — Tan A = 8.60105

107-7

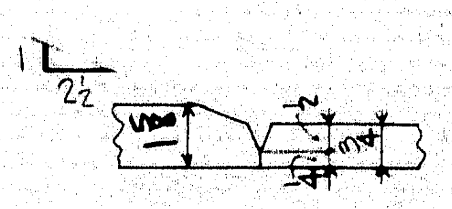
35453 (Rev.C 4-63) OCT 2 3 1969





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

E6


DETAIL "AA"

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1		ONE-GIRDER-G14-8												
2		a	1	PL	54		1/2	38	2 1/16	56 × 1/2	39	6 1/2	2	74
3		b	1	PL	54		7/16	57	4 7/16	56 1/2 × 7/16	57	10 3/4	2	73
4		c	1	PLU	16		1 5/8	38	0 1/8	16 × 1 5/8	38	4 3/4	3	69
5		d	1	PLU	16		1 5/8	38	2 1/4	" "	38	4 3/4	3	69
6		f	1	PLU	16		3/4	55	5 3/16	16 × 3/4	56	2	4	75
7		g	1	PLU	16		3/4	57	3 7/16	" "	57	9 3/4	4	73
8	C	2aa#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
9	C	2cn#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
10	C	2cp#	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
11	C	1bc 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	1b#	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		15/32	0	8 1/2	MIS (C.F. 3 ¢)			J	
17		k	1	PL	8		(2 7/32 × 1 9/32)	1	4 1/8	BEV. CF34X2 3/8			J	
18		US7	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 CF7×4×1/2	40	0	36	39
23														
24		FW	1	WO			3/8	24	11					
25		FWL	1	WO			5/16	377	4 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														
31		SD	1	WO			1/16	0	4					
32														
33														
34			2	SB	7/8 ¢			0	3 3/4				M	
35			2	SB	7/8 ¢			0	2					
36			2	SB	7/8 ¢			0	2 1/2					
37														
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APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
NEW YORK 17, N.Y
S.S. Nishimura NOV 18 1969

INST "14W"

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G14-8	GIRDER (62 5/8 × 25 1/2 × 96'-0 5/8)	

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 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)

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

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

REVISION

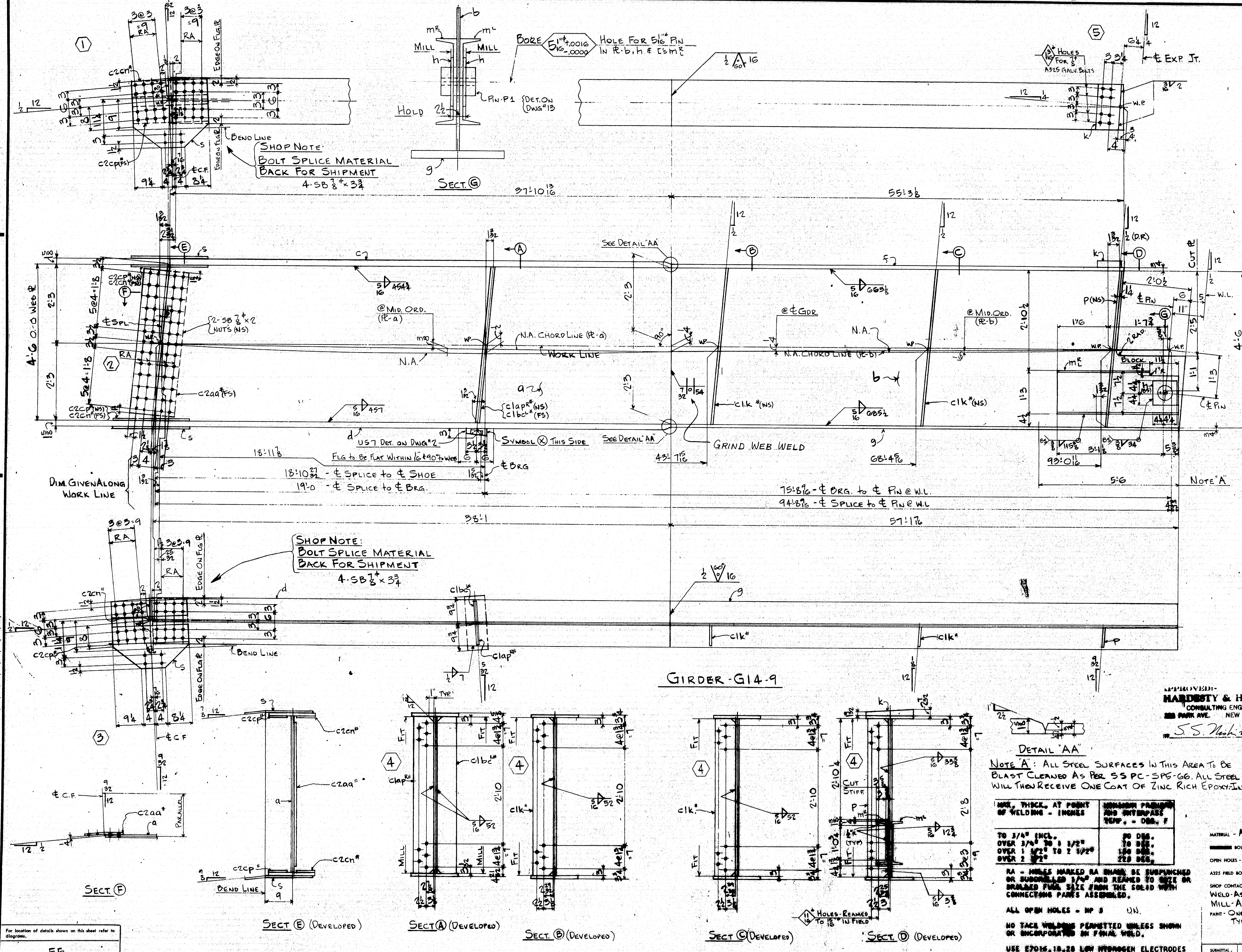
GIRDER

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT NO 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 9-9-69 IN CHARGE B.K. BERTOLET
CHECKED BY FRG DATE 9-17-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 272

33453 (Rev.C 4-65)

3-SCHWARZ ∡ 2°-18'-01" - TAN A = 8.60389

107-73



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 - G14-9												
2		a	1	PL	54		1/2	38	1	56 × 1/2	38	5 1/4	2	75
3		b	1	PL	54		7/16	57	2 1/2	56 1/2 × 7/16	57	10 3/4	2	73
4		c	1	PLU	16		1 5/8	37	11	16 × 1 5/8	38	4 3/4	3	69
5		d	1	PLU	16		1 5/8	38	1 3/16	" "	38	4 3/4	3	69
6		f	1	PLU	16		3/4	55	3 3/8	16 × 3/4	56	2	4	75
7		g	1	PLU	16		3/4	57	1 7/16	" "	57	9 3/4	4	73
8	C	2aa*	1	PLU	13		3/8	4	2	BENT	21	1	24	48
9	C	2cn*	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
10	C	2cp*	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
11	C	1ap 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	1k *	2	BR	7		1/2	4	6	F2E	18	4	24	51
14														
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 (CF 3/4" ℄)			J	
17		k	1	PL	8		(2 7/32 × 1 9/32)	1	4 1/8	BEV. CF34X2 3/8			J	
18		US7	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														
23														
24		FW	1	WO			3/8	24	11					
25		FWL	1	WO			5/16	376	8 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														
33														
34			8	SB	7/8⌀			0	3 3/4	}			M	
35			2	SB	7/8			0	2					

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

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 3/4" 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)

INST-14-E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G14-9	GIRDER (62 5/8 × 26 × 95'-10)	

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 8-26-69 IN CHARGE B.K. BERTOLET
CHECKED BY FRG DATE 9-23-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 273

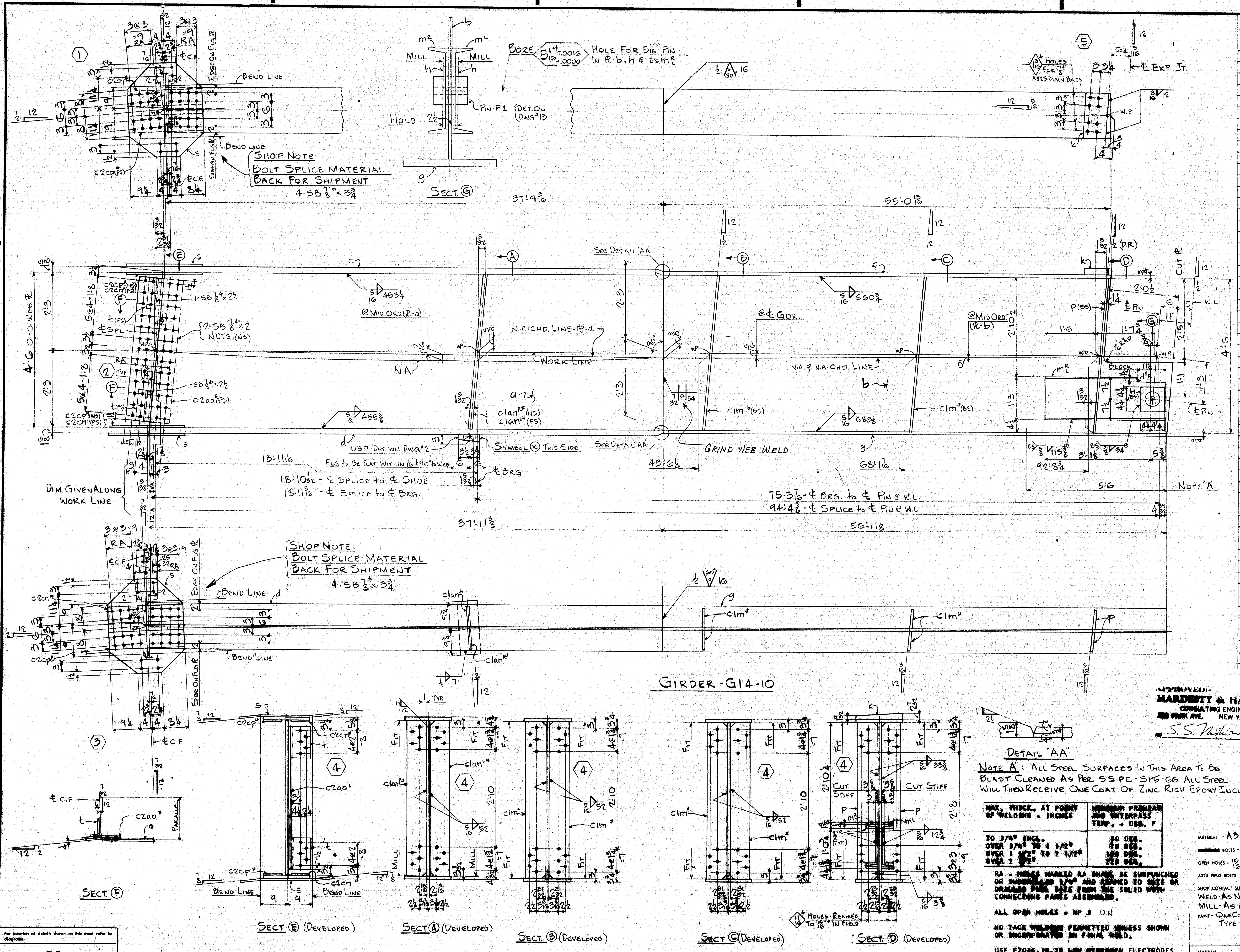
4

3-SCHWARZ ∡ 2°-18'-27" - TAN A = 8.60525

107-74

33453 (Rev.C 4-68)

OCT 28 1[illegible]



Shop Note:
Bolt Splice Material
Back For Shipment
4-SB 7/8 x 3 3/4

Shop Note:
Bolt Splice Material
Back For Shipment
4-SB 7/8 x 3 3/4

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

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.

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-G14-10												
2		a	1	PL	54		1/2	37	11 3/8	56 × 1/2	38	5 1/4	2	75
3		b	1	PL	54		7/16	57	0 5/16	56 1/2 × 7/16	57	10 3/4	2	73
4		c	1	PLU	16		1 5/8	37	9 5/16	16 × 1 5/8	38	4 3/4	3	69
5		d	1	PLU	16		1 5/8	37	11 1/2	" "	38	4 3/4	3	69
6		f	1	PLU	16		3/4	55	0 13/16	16 × 3/4	56	2	4	75
7		g	1	PLU	16		3/4	56	11 1/8	" "	57	9 3/4	4	73
8	C	2aa*	1	PLU	13		3/8	4	2	Bent	21	1	24	48
9	C	2cn*	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
10	C	2cp*	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 3/32	MIE-FIE	18	4	24	49
12	C	1anL*	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE	18	4	24	49
13	C	1m*	4	BR	7		1/2	4	6	F2E	18	4	24	51
14														
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 (CF 3/4" PL)			J	
17		k	1	PL	8		(2 7/32 × 1 9/32)	1	4 3/16	Bev. CF34X2 3/8			J	
18		US7	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										" "				
24		FW	1	WD			3/8	24	11					
25		FWL	1	WD			5/16	375	5					
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		V605	1	WD			3/4	2	8					
30		FW	1	WD			3/16	0	4					
31														
32														
33														
34			8	SB	7/8φ			0	3 3/4					
35			2	SB	7/8φ			0	2				M	
36			2	SB	7/8φ			0	2 1/2					
37														
38														
39														
40														
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53														
54														
55														

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

Inst. "14E"

Required List			
QTY	Shipping Mark	Description	Remarks
One	G14-10	Girder (62 5/8 × 31 1/2 × 95'-6)	

Pay Item - 504711

Material - A36 Steel
~~[illegible]~~ 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)

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 8-26-69 IN CHARGE B.K. Bertolet
CHECKED BY FTG DATE 9-23-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 274

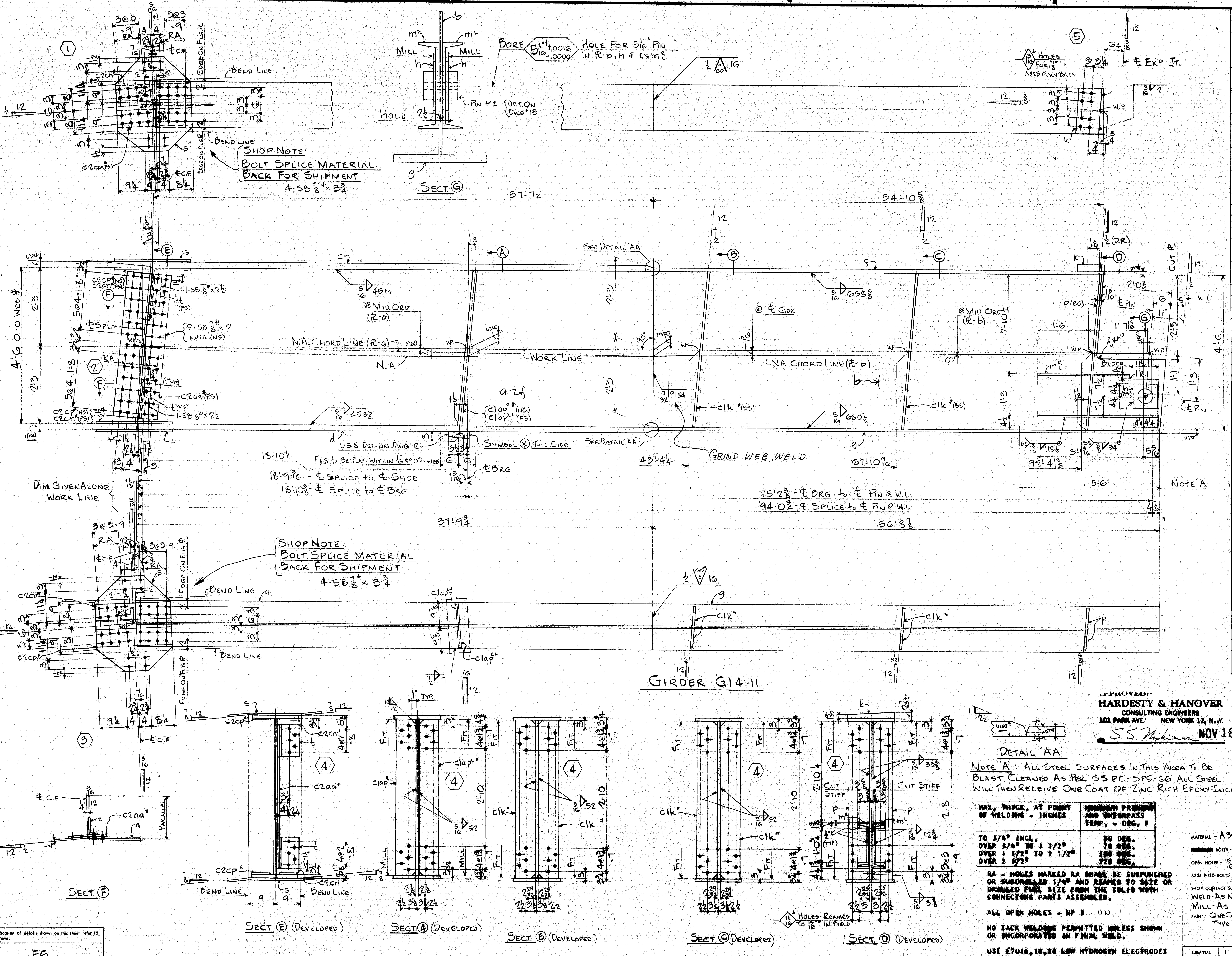
For location of details shown on this sheet refer to diagrams.
EG

3-Schwarz ∡ 2°-19'-45 - Tan A = 8.60932

107-25

35453 (Rev. C-4-61) OCT 28 1969

4



①
③
⑤
3@3
RA
Bend Line
Edge on Flg
Shop Note: Bolt Splice Material Back For Shipment 4-SB $\frac{7}{8}$φ × $3\frac{3}{4}$
Mill
Bore $5\frac{15}{16}$ $\frac{+.0016}{-.0000}$ Hole For $5\frac{15}{16}$ Pin In Pℓ-b, h & C's m
Pin-P1 Det. On Dwg #13
Hold $2\frac{1}{2}$
Sect Ⓖ
¢ Exp Jt.
$\frac{3}{4}$ Holes For $\frac{7}{8}$φ A325 Galv Bolts
$37'\text{-}7\frac{1}{2}$
$54'\text{-}10\frac{3}{8}$
See Detail 'AA'
@ M10. Ord (Pℓ-a)
@ ¢ Gdr
@ M10. Ord (Pℓ-b)
N.A. Chord Line (Pℓ-a)
Work Line
N.A.
N.A. Chord Line (Pℓ-b)
Block
¢ Pin
W.L.
4'-6
4'-6 0.0 Web Pℓ
1-SB $\frac{7}{8}$φ × $2\frac{1}{2}$
2-SB $\frac{7}{8}$φ × 2 Nuts (NS)
USS Det. on Dwg #2
Symbol ⊗ This Side
Grind Web Weld
$18'\text{-}10\frac{1}{4}$
Flg to Be Flat Within $\frac{1}{16}$ @ 90° to Web
$18'\text{-}9\frac{5}{16}$ - ¢ Splice to ¢ Shoe
$18'\text{-}10\frac{3}{8}$ ¢ Splice to ¢ Brg.
¢ Brg
$43'\text{-}4\frac{1}{4}$
$67'\text{-}10\frac{9}{16}$
$92'\text{-}4\frac{13}{16}$
5'-6
$75'\text{-}2\frac{3}{8}$ - ¢ Brg. to ¢ Pin @ W.L.
$94'\text{-}0\frac{3}{4}$ - ¢ Splice to ¢ Pin @ W.L.
Note 'A'
$37'\text{-}9\frac{3}{4}$
$56'\text{-}8\frac{3}{8}$
Dim. Given Along Work Line
Girder - G14-11
Sect. Ⓕ
Sect Ⓔ (Developed)
Sect Ⓐ (Developed)
Sect. Ⓑ (Developed)
Sect Ⓒ (Developed)
Sect. Ⓓ (Developed)
Cut Stiff
$\frac{13}{16}$ Holes, Reamed To $\frac{15}{16}$ In Field
Parallel
E6
For location of details shown on this sheet refer to diagrams.

Detail "AA"

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

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 - $\frac{7}{8}$φ
OPEN HOLES - $\frac{15}{16}$φ (U.N.)
A325 FIELD BOLTS - $\frac{7}{8}$φ
SHOP CONTACT SURFACES No Paint U.N.
Weld - As Noted
Mill - As Noted
PAINT - One Coat AASHO-M72 Type II Red Lead (UN)

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	One - Girder - G14-11												
2	a	1	PL	54		$\frac{1}{2}$	37	$9\frac{3}{4}$	56 × $\frac{1}{2}$	38	$5\frac{1}{4}$	2	75
3	b	1	PL	54		$\frac{7}{16}$	56	10	$56\frac{1}{2}$ × $\frac{7}{16}$	57	$10\frac{3}{4}$	2	73
4	c	1	PLU	16		$1\frac{5}{8}$	37	$7\frac{5}{8}$	16 × $1\frac{5}{8}$	38	$4\frac{3}{4}$	3	69
5	d	1	PLU	16		$1\frac{5}{8}$	37	$9\frac{7}{8}$	" "	38	$4\frac{3}{4}$	3	69
6	f	1	PLU	16		$\frac{3}{4}$	54	$10\frac{5}{8}$	16 × $\frac{3}{4}$	55	1	4	76
7	g	1	PLU	16		$\frac{3}{4}$	56	$8\frac{7}{8}$	" "	57	1	4	74
8	C 2aa#	1	PLU	13		$\frac{3}{8}$	4	2	Bent	21	1	24	48
9	C 2cn#	2	BR	$6\frac{1}{2}$		$\frac{1}{2}$	2	$1\frac{1}{2}$		19	0	24	50
10	C 2cp#	2	BR	$6\frac{1}{2}$		$\frac{1}{2}$	2	$1\frac{1}{2}$		19	0	24	50
11	C 1ap R#	1	BR	$7\frac{1}{2}$		$\frac{3}{4}$	4	$6\frac{3}{32}$	MIE-FIE	18	4	24	49
12	C 1ap L#	1	BR	$7\frac{1}{2}$		$\frac{3}{4}$	4	$6\frac{3}{32}$	MIE-FIE	18	4	24	49
13	C 1k#	4	BR	7		$\frac{1}{2}$	4	6	F2E	18	4	24	51
14													
15	p	2	BR	7		$\frac{1}{2}$	4	6	F2E	18	4	24	51
16	h	2	PL	$8\frac{1}{2}$		$\frac{1}{2}$	0	$8\frac{1}{2}$	MIS (CF $\frac{3}{4}$ Pℓ)			J	
17	k	1	PL	8	($2\frac{7}{32}$ × $1\frac{9}{32}$)		1	$4\frac{1}{4}$	Bev. CF34X$2\frac{3}{8}$			J	
18	US8	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	$6\frac{1}{2}$		44	8	24	42
21	s	2	PL	$25\frac{1}{2}$		$\frac{1}{2}$	2	$7\frac{1}{2}$	Bent	22	4	24	45
22	t	2	L	7	$3\frac{1}{4}$	$\frac{1}{2}$	0	11	Bent CF7×4×$\frac{1}{2}$	40	0	36	39
23													
24	FW	1	WD			$\frac{3}{8}$	24	11					
25	FWL	1	WD			$\frac{5}{16}$	374	$1\frac{1}{2}$					
26	FWS	1	WD			$\frac{5}{16}$	68	6					
27	FW	1	WD			$\frac{1}{2}$	1	2					
28	SDS	1	WD			$\frac{7}{16}$	4	6					
29	VGOS	1	WD			$\frac{3}{4}$	2	8					
30	FW	1	WD			$\frac{3}{16}$	0	4					
31													
32													
33													
34		8	SB	$\frac{7}{8}$φ			0	$3\frac{3}{4}$				M	
35		2	SB	$\frac{7}{8}$			0	2					
36		2	SB	$\frac{7}{8}$φ			0	$2\frac{1}{2}$					
37													
38													
39													
40													
41													
42													
43													
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49													
50													
51													
52													
53													
54													
55													

Inst-"14E"

Required List			
Qty	Shipping Mark	Description	Remarks
One	G14-11	Girder ($62\frac{5}{8}$ × $31\frac{1}{2}$ × 95'-2)	

Pay Item - 504711

Girder

Revision		
NO.	DATE	INIT.
0		
9		
8		
7		
6		
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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 8-27-69 IN CHARGE B.K. Bertolet
CHECKED BY FRG DATE 9-23-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 275

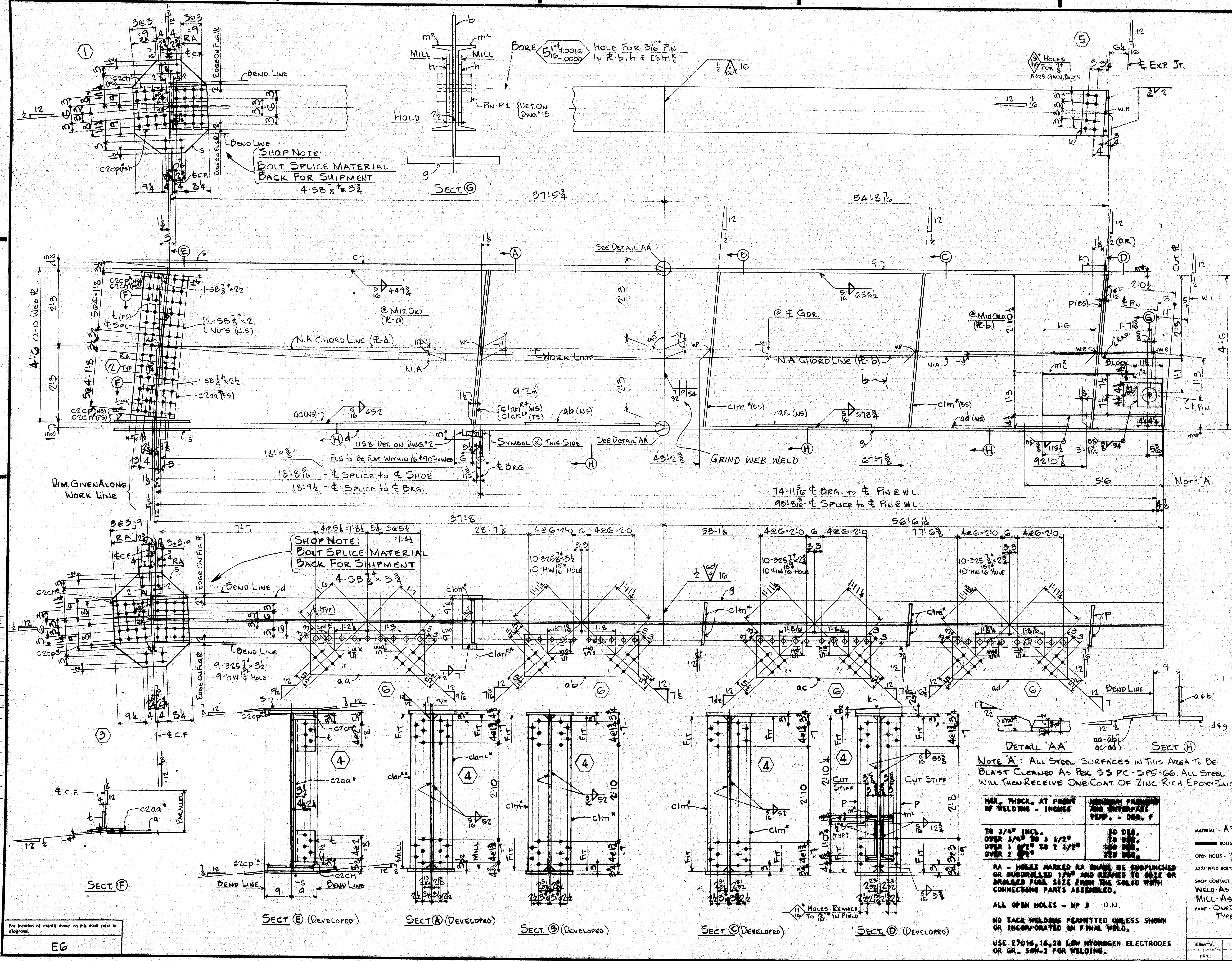
4

3-Schwarz ∡ 2°-21'-02" - Tan A = 8.61329

107-76

35453 (Rev. C 4-65)

OCT 28 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

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 - 7/8φ
OPEN HOLES - 15/16" (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 (U.N)

For location of details shown on this sheet refer to diagrams.
E6

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-G14-12												
2	a	1	PL	54		1/2	37	8	56×1/2	38	5 1/4	2	75
3	b	1	PL	54		7/16	56	7 3/4	(ABT) 56 1/2×7/16	57	10 3/4	2	73
4	c	1	PLU	16		1 5/8	37	5 13/16	16×1 5/8	38	4 3/4	3	69
5	d	1	PLU	16		1 5/8	37	8 1/16	" "	38	4 3/4	3	69
6	f	1	PLU	16		3/4	54	8 7/16	16×3/4	55	1	4	76
7	g	1	PLU	16		3/4	56	6 11/16	" "	57	1	4	74
8	C 2aa*	1	PLU	13		3/8	4	2	BENT	21	1	24	48
9	C 2cn*	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
10	C 2cp*	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 1m*	4	BR	7		1/2	4	6	F2E	18	4	24	51
14													
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 (CF 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	USB	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													
24	FW	1	WO			3/8	24	11					
25	FWL	1	WO			5/16	372	10					
26	FWS	1	WO			5/16	68	6					
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	WD			3/16	0	4					
31													
32		2	SB	7/8φ			0	2 1/2					
33		2	SB	7/8φ			0	2					
34		8	SB	7/8φ			0	3 3/4				M	
35		20	325	7/8φ			0	2 3/4	H·H·H-H·H·N				
36		19	325	7/8φ			0	3 1/2	H·H·H-H·H·N				
37		39	HW	1 3/4	15/16	3/16							
38													
39	aa	1	PL	14 1/2	—	5/8	3	9 1/4	BENT	26	0	28	19
40	ab	1	PL	14 1/2		5/8	4	9	BENT	26	0	28	19
41	ac	1	PL	14 1/2		5/8	4	9	BENT	26	0	28	19
42	ad	1	PL	14 1/2		5/8	4	9	BENT	26	0	28	19
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 S.S. Nishimura NOV 18 1969

INST-14E"

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G14-12	GIRDER (62 5/8×34 3/4×94'-10 1/2)	

PAY ITEM-504711

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 8-27-69 IN CHARGE B.K. BERTOLET
CHECKED BY FRG DATE 9-23-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 276

5

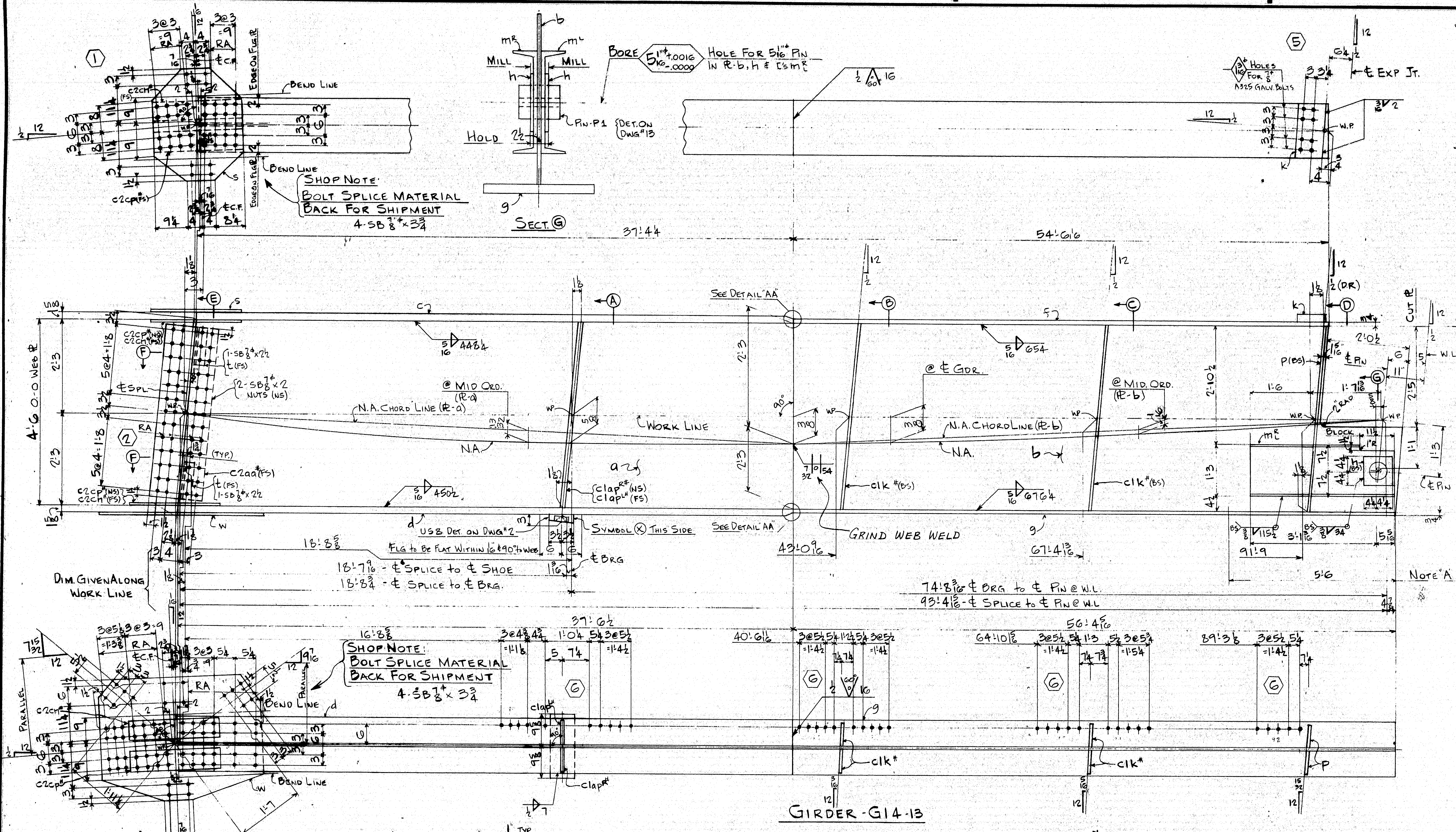
3-SCHWARZ

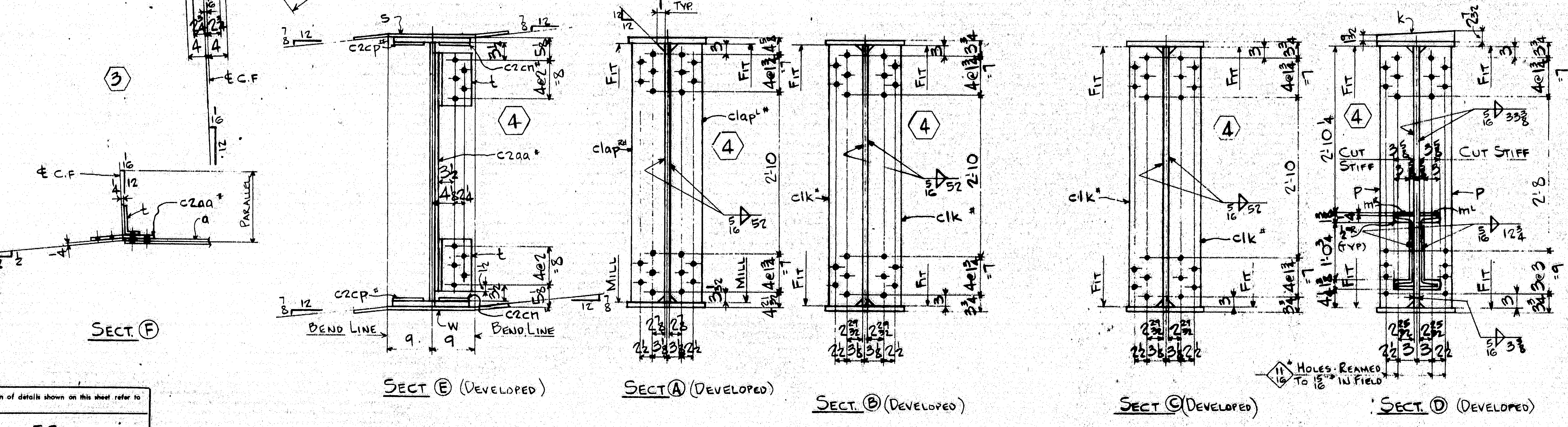
∡ 2°-22'-20" - TAN A = 8.61728

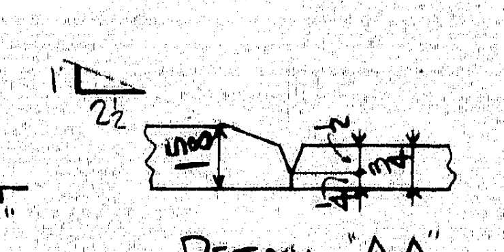
107-77

33683 (Rev.C 4-68)

OCT 28 1969


①
②
③
⑤
Sect. Ⓖ
Bore 5 1/16 +.0016 −.0000 Hole For 5 1/16" Pin In ℞ b, h & [̲s m̲
Pin-P1 {Det. On Dwg #13
Hold
Mill
Shop Note: Bolt Splice Material Back For Shipment 4-SB 7/8"×3¾
Bend Line
Edge Of Flg.
37'-4¼
54'-6 1/16
See Detail "AA"
@ ℄ Gdr.
@ Mid Ord. (℞-a)
@ Mid Ord. (℞-b)
N.A. Chord Line (℞-a)
N.A. Chord Line (℞-b)
Work Line
N.A.
Grind Web Weld
USB Det On Dwg #2
Flg To Be Flat Within 1/16" @ 90° To Web
Symbol ⊗ This Side
18'-8⅝
18'-7 9/16 - ℄ Splice to ℄ Shoe
18'-8¾ - ℄ Splice to ℄ Brg
43'-0 9/16
67'-4 13/16
91'-9
74'-8 9/16 ℄ Brg to ℄ Pin @ W.L.
93'-4 9/16 - ℄ Splice to ℄ Pin @ W.L.
Note "A"
Dim. Given Along Work Line
4'-6 O.-O. Web ℞
¼" Holes For ⅞" A325 Galv. Bolts
℄ Exp. Jt.
Block
℄ Pin
W.P.
Girder-G14-13





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-G14-13												
2	a	1	PL	54		½	37	6½	56×½	38	5¼	2	75
3	b	1	PL	54		7/16	56	5⅜	56½×7/16	57	10¾	2	73
4	c	1	PLU	16		1⅝	37	4¼	16×1⅝	38	4¾	3	69
5	d	1	PLU	16		1⅝	37	6½	" "	38	4¾	3	69
6	f	1	PLU	16		¾	54	6 1/16	16×¾	55	1	4	76
7	g	1	PLU	16		¾	56	4 5/16	" "	57	1	4	74
8	C 2aa*	1	PLU	13		⅜	4	2	Bent	21	1	24	48
9	C 2ch*	2	BR	6½		½	2	1½		19	0	24	50
10	C 2cp*	2	BR	6½		½	2	1½		19	0	24	50
11	C 1apR*	1	BR	7½		¾	4	6 3/32	MIE-FIE	18	4	24	49
12	C 1apL*	1	BR	7½		¾	4	6 3/32	MIE-FIE	18	4	24	49
13	C 1k*	4	BR	7		½	4	6	F2E	18	4	24	51
14													
15	p	2	BR	7		½	4	6	F2E	18	4	24	51
16	h	2	PL	8½		½	0	8½	MIS (CF ¾" ℞)			J	
17	k	1	PL	8	(2 7/32×1 9/32)		1	4 5/16	Bev. CF 34×2⅜			J	
18	USB	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	1	PL	25½		½	2	7½	Bent	22	4	24	45
22	t	2	L	7	3¼	½	0	11	Bent CF 7×4×½	40	0	36	39
23	w	1	PL	34½		⅝	4	3	Bent 36×⅝ Mults	4	4¼	28	17
24	FW	1	WO			⅜	24	11					
25	FWL	1	WO			5/16	371	6					
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	WO			3/16	0	4					
31													
32													
33													
34		8	SB	⅞φ			0	3¾	}			M	
35		2	SB	⅞φ			0	2					
36		2	SB	⅞φ			0	2½					
37													
38													
39													
40													
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54													
55													

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

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 - ⅞φ
OPEN HOLES - 15/16φ (U.N.)
A325 FIELD BOLTS - ⅞φ
SHOP CONTACT SURFACES No Paint U.N.
Weld - As Noted
Mill - As Noted
PAINT - One Coat AASHO-M72-Type II Red Lead (UN)

Inst-14E

Required List			
Q'ty	Shipping Mark	Description	Remarks
One	G14-13	Girder (62⅝×34½×94'-6)	

Pay Item-504711

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										

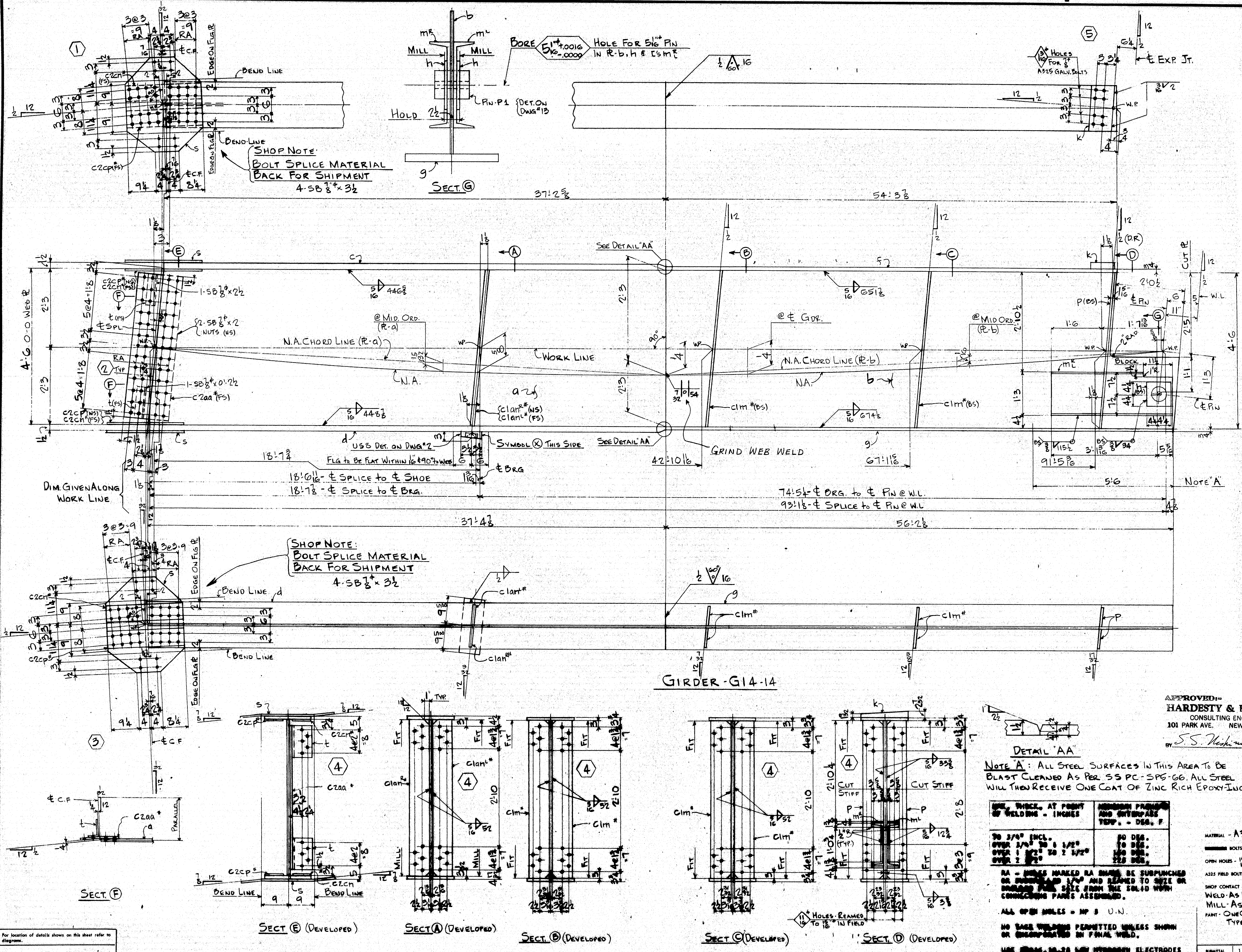
CUSTOMER Maine State Highway Commission
Piscataqua River Bridge
Project No I95-1(22) 16
Cont. No. 3 - New Hampshire App
Structural Steel
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM Pottstown WORKS
MADE BY DML DATE 8-26-69 IN CHARGE B.K. Bertolet
CHECKED BY FRG DATE 9-23-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 277

33453 (Rev. C 4-65)

For location of details shown on this sheet refer to diagrams.
E6

3-Schwarz ∡ 2°-23'-39" - Tan A = 8.62083

107-78



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-G14-14												
2	a	1	PL	54		½	37	4⅞	56×½	38	5¼	2	75
3	b	1	PL	54		7/16	56	3¼	56½×7/16	57	10¾	2	73
4	c	1	PLU	16		1½	37	2⅝	16×1½	37	6½	12	20
5	d	1	PLU	16		1½	37	4⅞	" "	37	6½	12	20
6	f	1	PLU	16		¾	54	3⅞	16×¾	55	1	4	76
7	g	1	PLU	16		¾	56	2⅞	" "	57	1	4	74
8	C 2aa*	1	PLU	13		⅜	4	2	BENT	21	1	24	48
9	C 2cn*	2	BR	6½		½	2	1½		19	0	24	50
10	C 2cp*	2	BR	6½		½	2	1½		19	0	24	50
11	C 1an^{R}*	1	BR	7½		¾	4	6 3/32	MIE-FIE	18	4	24	49
12	C 1an^{L}*	1	BR	7½		¾	4	6 3/32	MIE-FIE	18	4	24	49
13	C 1m*	4	BR	7		½	4	6	F2E	18	4	24	51
14													
15	P	2	BR	7		½	4	6	F2E	18	4	24	51
16	h	2	PL	8½		½	0	8½	MIS (CF ¾" ℞)			J	
17	k	1	PL	8		(2 7/32×1 9/32)	1	4 5/16	BEV. CF34×2⅜			J	
18	USS	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													
24	FW	1	WD			⅜	24	11					
25	FWL	1	WD			5/16	370	3					
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													
33													
34		8	SB	⅞φ			0	3½				M	
35		2	SB	⅞φ			0	2					
36		2	SB	⅞φ			0	2½					
37													
38													
39													
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55													

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

INST "14E"

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G14-14	GIRDER (62⅜×31½×94'-3)	

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 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 E7018, 10-28 LOW HYDROGEN ELECTRODES OR GR. SAW-2 FOR WELDING.

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

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

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

GIRDER

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
PROJECT NO 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 8-29-69 IN CHARGE B.K. BERTOLET
CHECKED BY FRG DATE 9-23-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 278

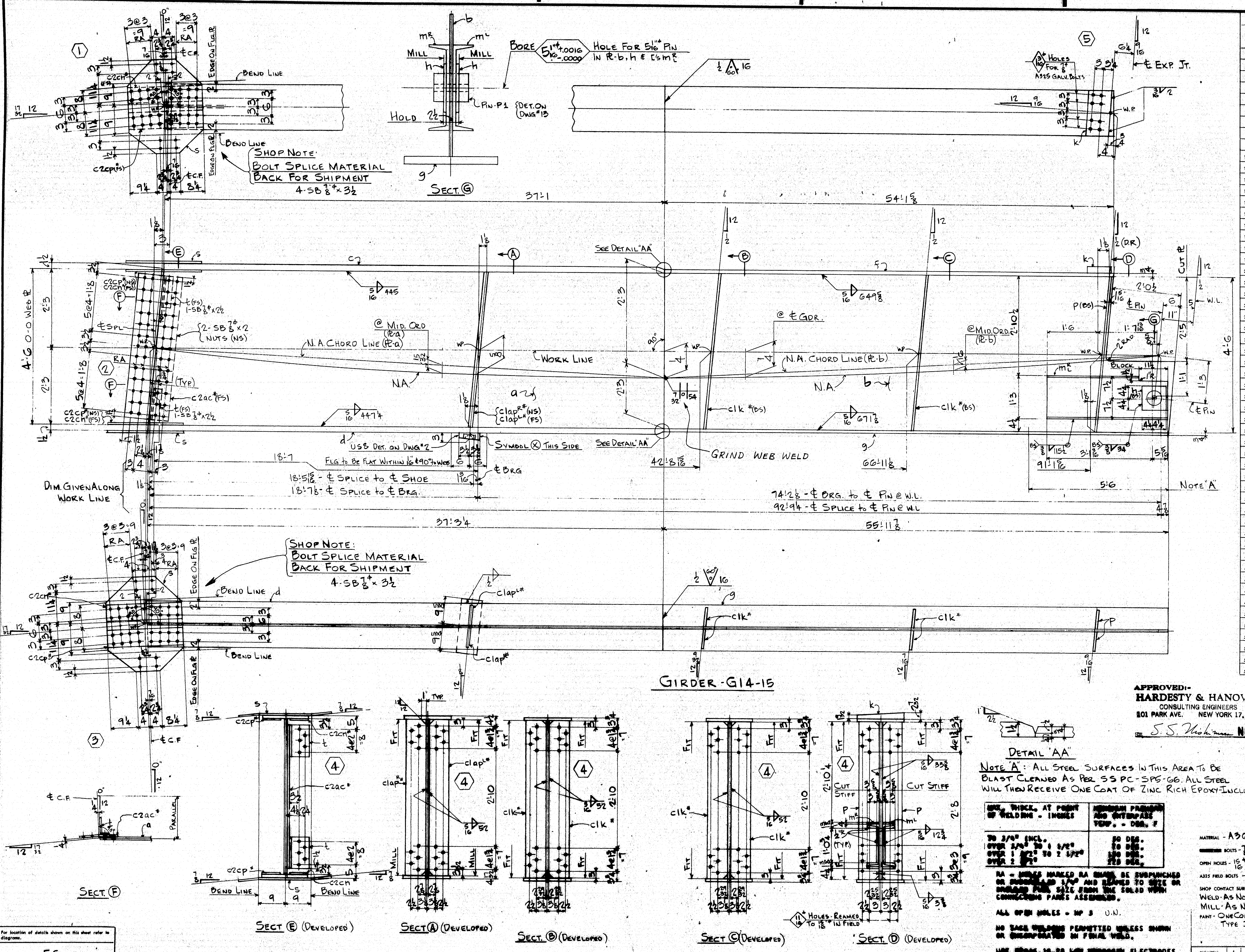
For location of details shown on this sheet refer to diagrams.
E6

3-SCHWARZ ∡ 2°-24'-58" - TAN A = 0.62525

107-79

33433 (Rev. C 4-63)

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

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 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 - ⅞ϕ
OPEN HOLES - 15/16ϕ (U.N.)
A325 FIELD BOLTS - ⅞ϕ
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.
S. S. Nishimura NOV 18 1969

Pay Item-504711

	SHOP BILL									MILL ORDER			
LINE	ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	LENGTH FT.	LENGTH IN.	ITEM PAGE	ITEM LINE
1	One-Girder-G14-15												
2	a	1	PL	54		½	37	3¼	56 × ½	38	5¼	2	75
3	b	1	PL	54		7/16	56	1	56½ × 7/16	56	6½	2	76
4	c	1	PLU	16		1½	37	1	16 × 1½	37	6½	12	20
5	d	1	PLU	16		1½	37	3¼	" "	37	6½	12	20
6	f	1	PLU	16		¾	54	1⅝	16 × ¾	55	11	4	76
7	g	1	PLU	16		¾	55	11⅞	" "	57	1	4	74
8	C 2ac*	1	PLU	13		⅜	4	2	Bent	21	1	24	48
9	C 2cn*	2	BR	6½		½	2	1½		19	0	24	50
10	C 2cp*	2	BR	6½		½	2	1½		19	0	24	50
11	C 1ap^R*	1	BR	7½		¾	4	6 3/32	MIE-FIE	18	4	24	49
12	C 1ap^L*	1	BR	7½		¾	4	6 3/32	MIE-FIE	18	4	24	49
13	C 1k*	4	BR	7		½	4	6	F2E	18	4	24	51
14													
15	p	2	BR	7		½	4	6	F2E	18	4	24	51
16	h	2	PL	8½		½	0	8½	MIS (CF ¾" ℞)			J	
17	k	1	PL	8	(2 7/32 × 1 9/32)		1	4⅜	Bev. C.F. 34 × 2⅜			J	
18	US8	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	CF 7×4×½	40	0	36	39
23													
24	FW	1	WD			⅜	24	11					
25	FWL	1	WD			5/16	368	11½					
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													
33													
34		8	SB	⅞ϕ			0	3½	}			M	
35		2	SB	⅞ϕ			0	2					
36		2	SB	⅞ϕ			0	2½					
37													
38													
39													
40													
41													
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53													
54													
55													

Inst "14E"

Required List			
Qty	Shipping Mark	Description	Remarks
One	G14-15	Girder (62⅜ × 31½ × 93'-11)	

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 8-29-69 IN CHARGE B.K. Bertolet
CHECKED BY RCG DATE 9-23-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 279

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

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

4

For location of details shown on this sheet refer to diagrams.
E6

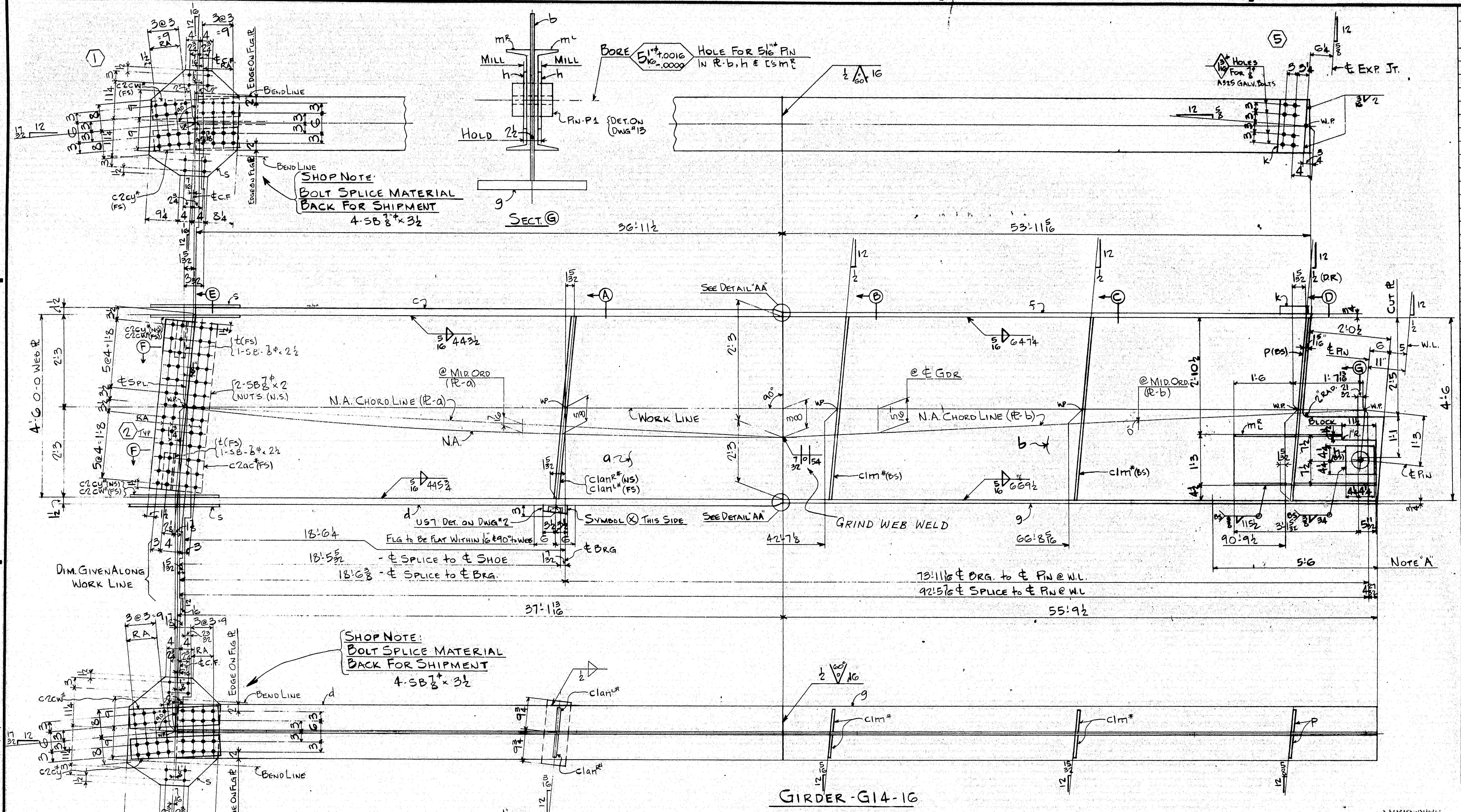
3-Schwarz ∡ 2°-26'-17" - Tan A = 8.62918

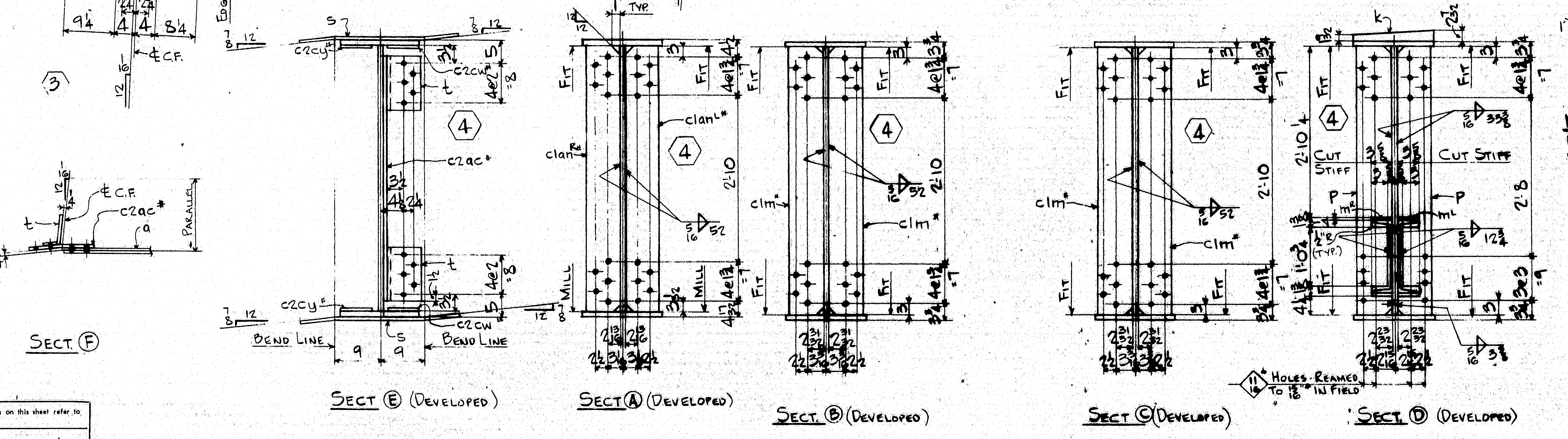
107-80

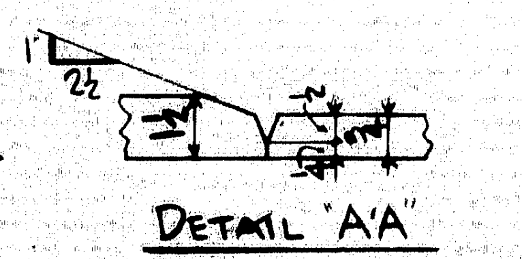
33452 (Rev. C 4-63)

OCT 2 8 1969

1







Detail "A'A"

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

[illegible]

All open holes - [illegible] U.N

[illegible]

[illegible] Electrodes [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 U.N.
Weld - As Noted
Mill - As Noted
Paint - One Coat AASHO-M72-Type II Red Lead (UN)

Shop Bill

Line		Assembly Mark	No.	Shape	Size	Size or Pounds	Thick	Ft.	In.	Remarks		Ft.	In.		
1		One-Girder-G14-16													
2		a	1	PL	54		1/2	37	11 13/16		56×1/2	38	5 1/4	2	75
3		b	1	PL	54		7/16	55	10 5/8		56 1/2×	56	6 1/2	2	76
4		c	1	PLU	16		1 1/2	36	11 1/2		16×1 1/2	37	6 1/2	12	20
5		d	1	PLU	16		1 1/2	37	11 3/16		" "	37	6 1/2	12	20
6		f	1	PLU	16		3/4	53	11 5/16		16×3/4	55	1"	4	76
7		g	1	PLU	16		3/4	55	9 1/2		" "	56	2	4	75
8	C	2ac*	1	PLU	13		3/8	4	2	Bent		21	1	24	48
9	C	2cw*	2	BR	6 1/2		1/2	2	1 1/2			19	0	24	50
10	C	2cy*	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	1m*	4	BR	7		1/2	4	6	F2E		18	4	24	51
14															
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 (C.F. 3/4" ℞)				J	
17		k	1	PL	8	(2 7/32×1 1/32)		1	4 7/16	Bev. C.F. 34×2 3/8				J	
18		US7	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 7×4×	40	0	36	39
23															
24		FW	1	WO			3/8	24	11						
25		FWL	1	WO			5/16	367	8						
26		FWS	1	WO			5/16	68	6						
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			5/16	0	4						
31															
32															
33															
34			8	SB	7/8 ϕ			0	3 1/2	}				M	
35			2	SB	7/8 ϕ			0	2						
36			2	SB	7/8 ϕ			0	2 1/2						
37															
38															
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Hardesty & Hanover
Consulting Engineers
101 Park Ave. New York 17, N.Y.
NOV 18 1969

Inst-"14E"

Required List

Qty	Shipping Mark	Description	Remarks
One	G14-16	Girder (62 3/8 × 31 1/2 × 93'-7)	

Pay Item - 504711

Girder

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 9-2-69 In Charge B.K. [illegible]
Checked by FG Date 9-23-69 Shop No. 2
Contract CJ-6249-020 Drawing No. 280

No.	Date	Init.
0		
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Revision

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

2+3

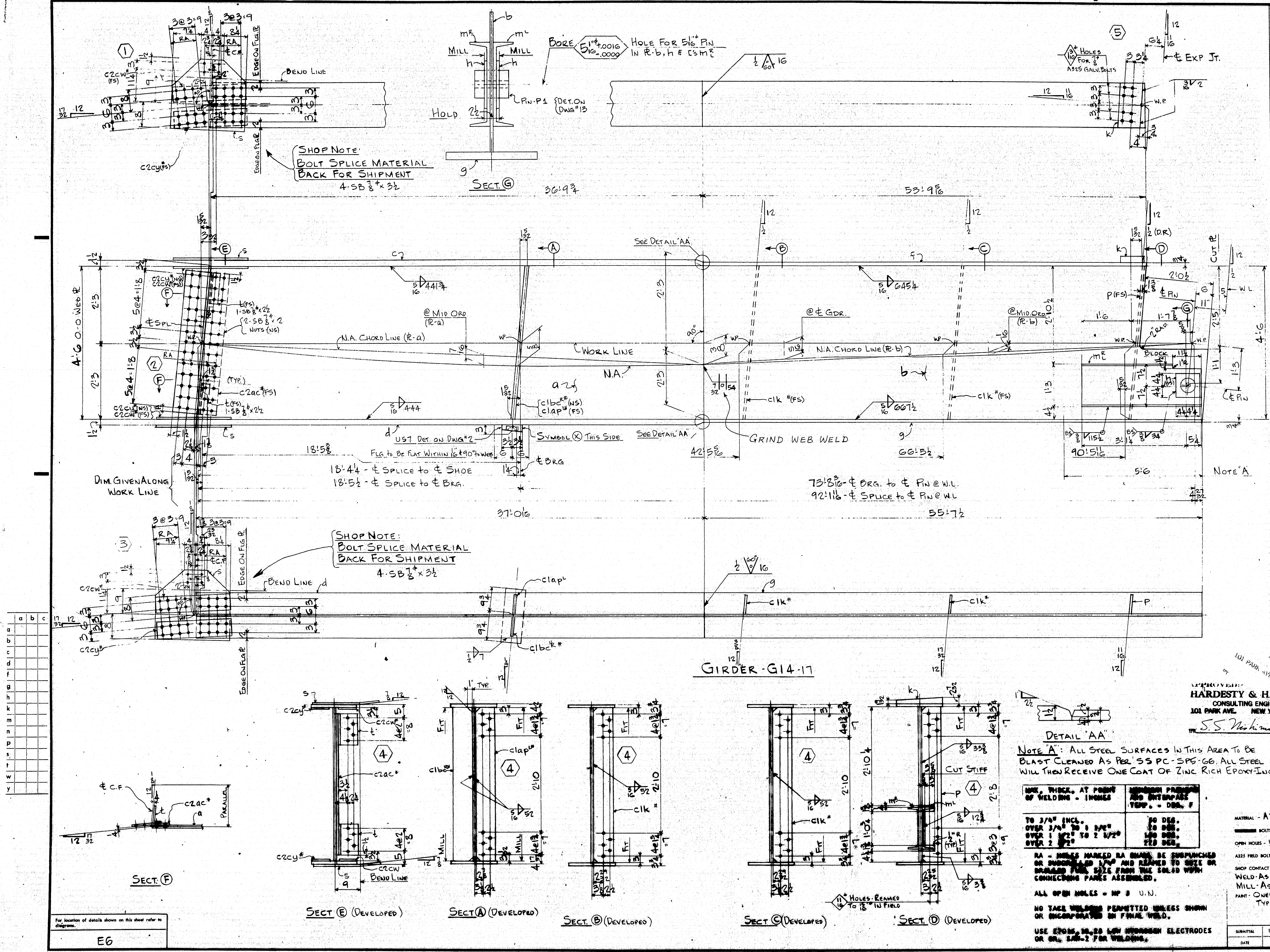
For location of details shown on this sheet refer to diagrams.

E6

3-Schwarz ∡ 2°-27'-36" - Tan A: 0.63303

447-81

OCT 28 1968



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-G14-17												
2		a	1	PL	54		1/2	37	0 1/16	56 × 1/2	38	5 1/4	2	75
3		b	1	PL	54		7/16	55	8 5/8	56 1/2 × 7/16	56	6 1/2	2	76
4		c	1	PLU	16		1 1/2	36	9 13/16	16 × 1 1/2	37	6 1/2	12	20
5		d	1	PLU	16		1 1/2	37	0 3/8	" "	37	6 1/2	12	20
6		f	1	PLU	16		3/4	53	9 5/16	16 × 3/4	55	1	4	76
7		g	1	PLU	16		3/4	55	7 1/2	" "	56	2	4	75
8	C	2ac*	1	PLU	13		3/8	4	2	BENT	21	1	24	48
9	C	2cw*	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
10	C	2cy*	2	BR	6 1/2		1/2	2	1 1/2		19	0	24	50
11	C	1bc^R#	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE	18	4	24	49
12	C	1ap^L#	1	BR	7 1/2		3/4	4	6 3/32	MIE-FIE	18	4	24	49
13	C	1k #	2	BR	7		1/2	4	6	F2E	18	4	24	51
14														
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 (CF 3/4 ℄)			J	
17		k	1	PL	8	(2 7/32 × 1 9/32)		1	4 7/16	BEVI CF 34 × 2 3/8			J	
18		US7	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	WD			3/8	24	11					
25		FWL	1	WD			5/16	366	5					
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		VGOS	1	WD			3/4	2	8					
30		FW	1	WD			3/16	0	4					
31														
32														
33														
34			8	SB	7/8 φ			0	3 1/2				M	
35			2	SB	7/8 φ			0	2					
36			2	SB	7/8 φ			0	2 1/2					
37														
38														
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APPROVED:
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S. S. Nishimura NOV 18 1969

INST-14E

Required List			
Qty	Shipping Mark	Description	Remarks
One	G14-17	Girder (62 3/8 × 25 1/2 × 93:3 1/2)	

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 U.N.

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

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

MATERIAL - A36 Steel
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)

Girder

Revision No.	Date	Init.
0		
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1		

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

CUSTOMER Maine State Highway Commission
Piscataqua River Bridge
Project No 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 9-2-69 IN CHARGE B.K. Bertolet
CHECKED BY FRG DATE 9-23-69 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 281

For location of details shown on this sheet refer to diagrams.
E6

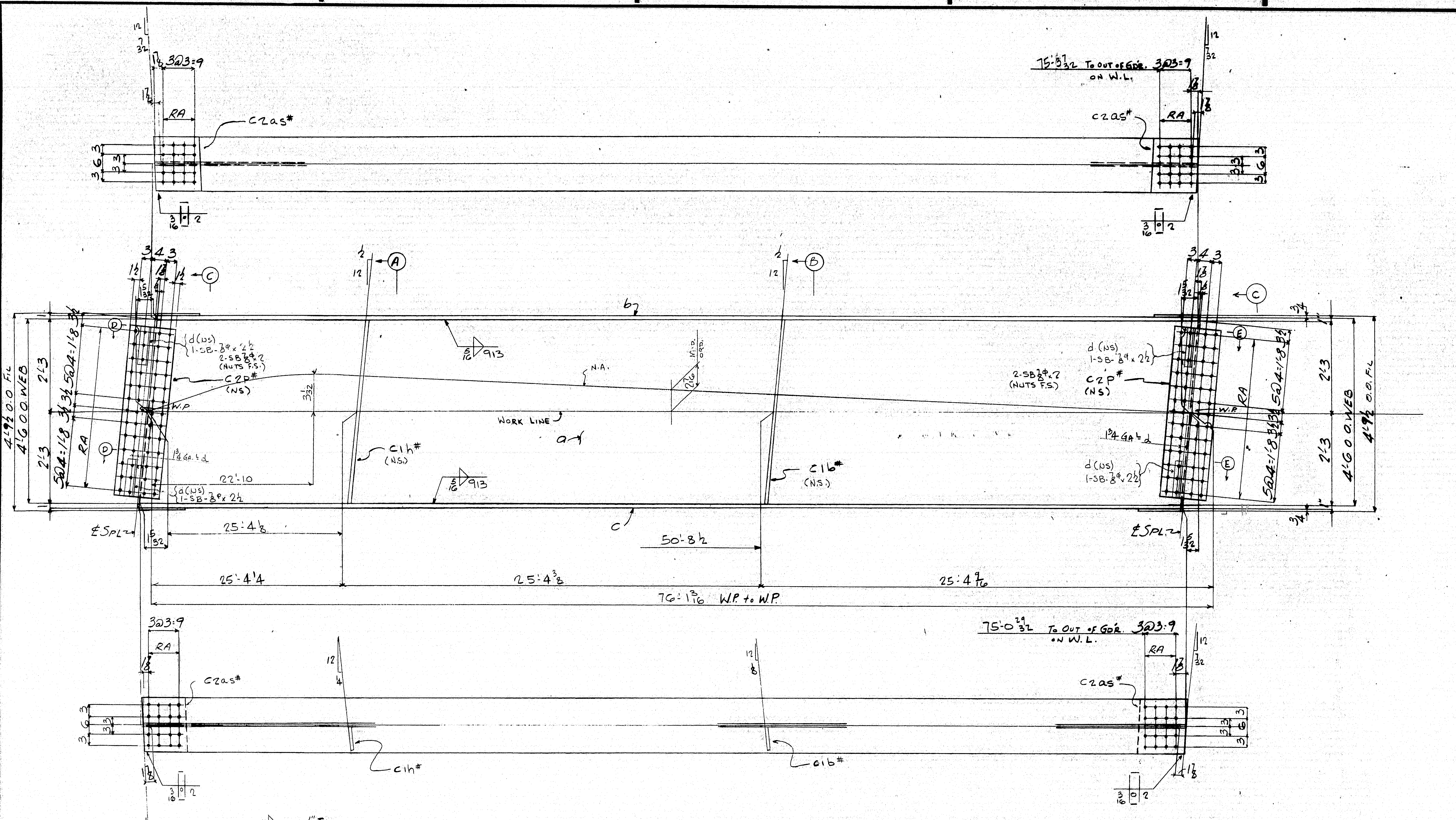
3-Schwarz

∡ 2°-28'-56" - Tan A = 8.63699

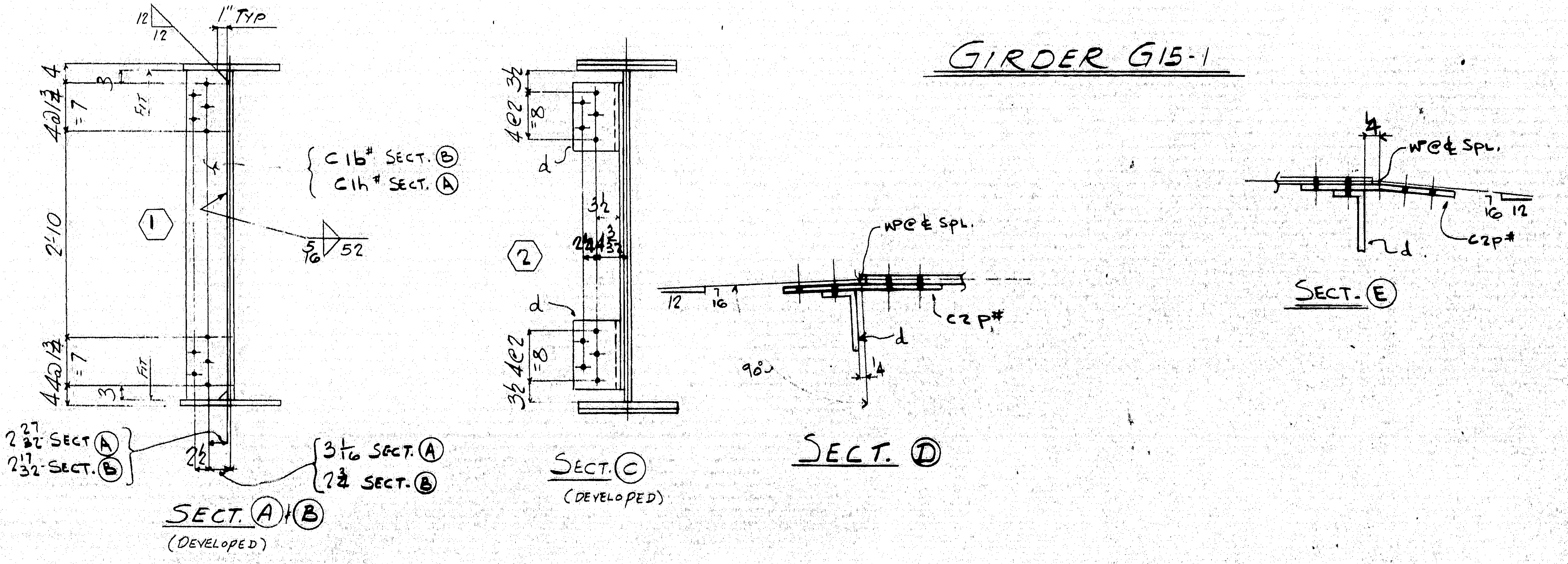
107-82

OCT 28 19

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



GIRDER G15-1



SECT. A & B
(DEVELOPED)

SECT. C
(DEVELOPED)

SECT. D

SECT. E

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	FT.	IN.		
1			1	GIRDER G15-1.										
2														
3		a	1	PL	54		7/16	76	3¼	57×7/16	76	6¼	7	
4		b	1	PLU	16		1	76	1¼		76	2	13	
5		c	1	PLU	16		1	76	1¼		76	2	13	
6		d	4	L	7	3¼	½	0	11	(CUT 7×4×½)	40	0	36	39
7														
8														
9	c	1h#	1	BR	7		½	4	6	F2E	18	4	24	51
10	c	1b#	1	BR	7		½	4	6	F2E	18	4	24	51
11	c	2as#	4	PL	16		¾	1	0 25/32		20	0	24	43
12	c	2p#	2	PW	13		3/8	4	2	BENT	21	1	24	48
13														
14														
15														
16														
17														
18														
19		FWL	1	WD			5/16	304	4					
20		FWS	1	WD			5/16	17	4					
21		SD	1	WD			3/16	1	4					
22														
23														
24			4	SB	7/8φ			0	2	HH-HN }			M	
25			4	SB	7/8φ			0	2½	H.H. & H.N. }				
26														
27														
28														
29														
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INSTALLMENT 15W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G15-1	GIRDER (57½×16×77:1)	

PAY ITEM - 504.711

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

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

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

MATERIAL A36 STEEL
RIVETS OR BOLTS 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.
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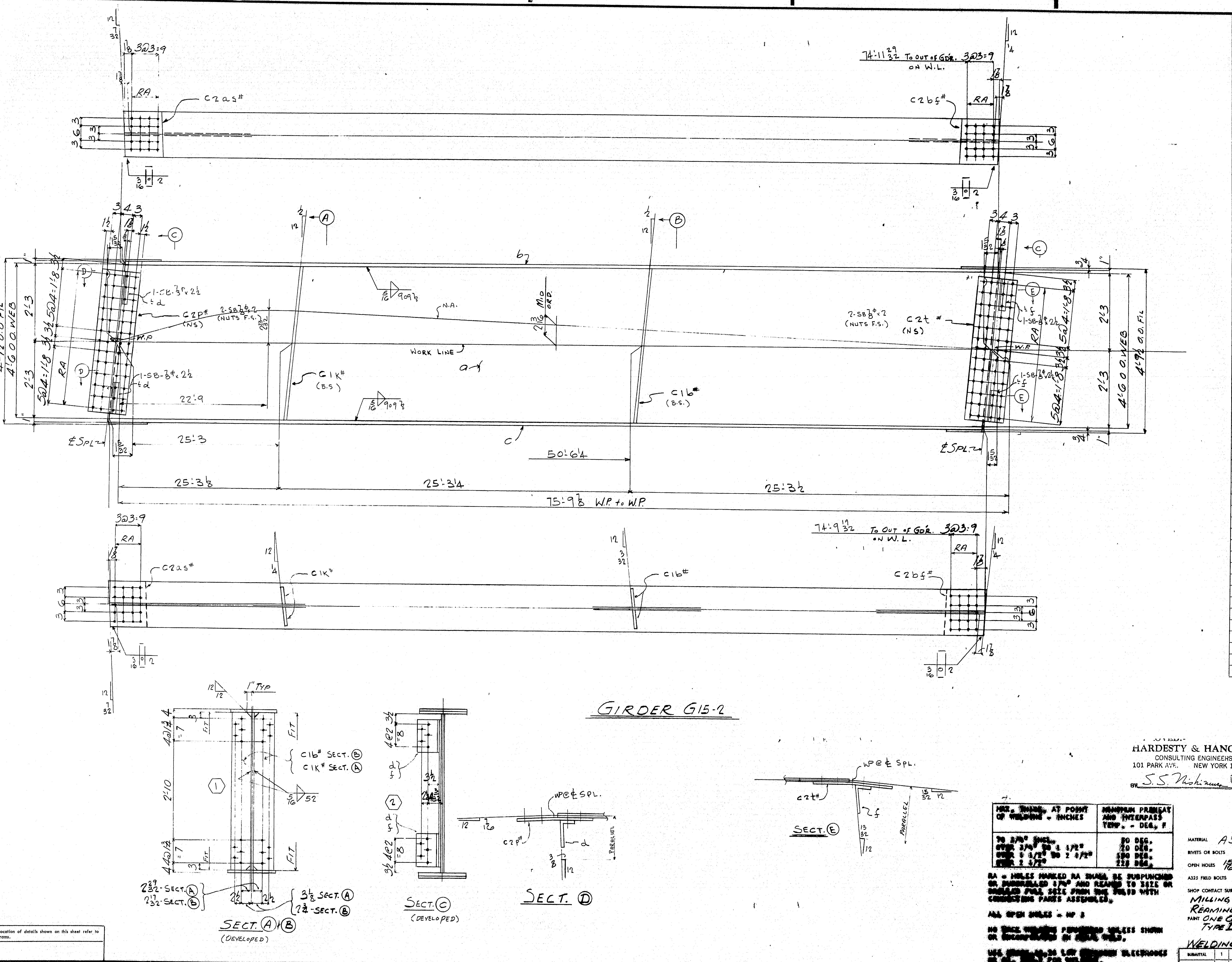
GIRDER G15-1
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
STRUCTURE PROJECT NO I-95-1(22)6
CONTR. NO 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY R.D.N. DATE 8-28-69 IN CHARGE B.K. BERTOLET
CHECKED BY [illegible] DATE 9-19-69 SHOP NO. 2
CONTRACT CJG249-021 DRAWING NO. 282

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

107-83 1 MASTER GDR #1

OCT 28 1969



GIRDER G15-2

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	[illegible]	[illegible]
1			1	GIRDER G15-2										
2														
3		a	1	PL	54		7/16	75	11 5/16	57×7/16	76	4¼	7	13
4		b	1	PLU	16		1	75	10 1/16		76	2	13	18
5		c	1	PLU	16		1	75	10 1/16		76	2	13	18
6		d	2	L	7	3¼	½	0	11	c.f. 7×4×½ BENT	40	0	36	39
7		f	2	L	7	3¼	½	0	11	c.f. 7×4×½ BENT	40	0	36	39
8														
9	c	1K#	2	BR	7		½	4	6	F2E	18	4	24	51
10	c	1b#	2	BR	7		½	4	6	F2E	18	4	24	51
11	c	2as#	2	PL	16		¾	1	0 25/32		20	0	24	43
12	c	2P#	1	PLU	13		⅜	4	2	BENT	21	1	24	48
13	c	2bf#	2	PL	16		¾	1	0 27/32		20	0	24	43
14	c	2t#	1	PLU	13		⅜	4	2	BENT	21	1	24	48
15														
16														
17														
18														
19		FWL	1	WD			5/16	303	3½					
20		FWS	1	WD			5/16	34	8.					
21		SD	1	WD			3/16	1	4					
22														
23														
24														
25			4	SB	7/8φ			0	2	HH-HN				
26			4	SB	7/8φ			0	2½	HH & HN			M	
27														
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INSTALLMENT 15W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G15-2	GIRDER (57½×16×78'-1½	

PAY ITEM - 504.711

APPROVED
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S. S. Nishimura OCT 15 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 3/16" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - NP 3

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

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

MATERIAL A36 STEEL
RIVETS OR BOLTS 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	INT.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

REVISION

GIRDER G15-2

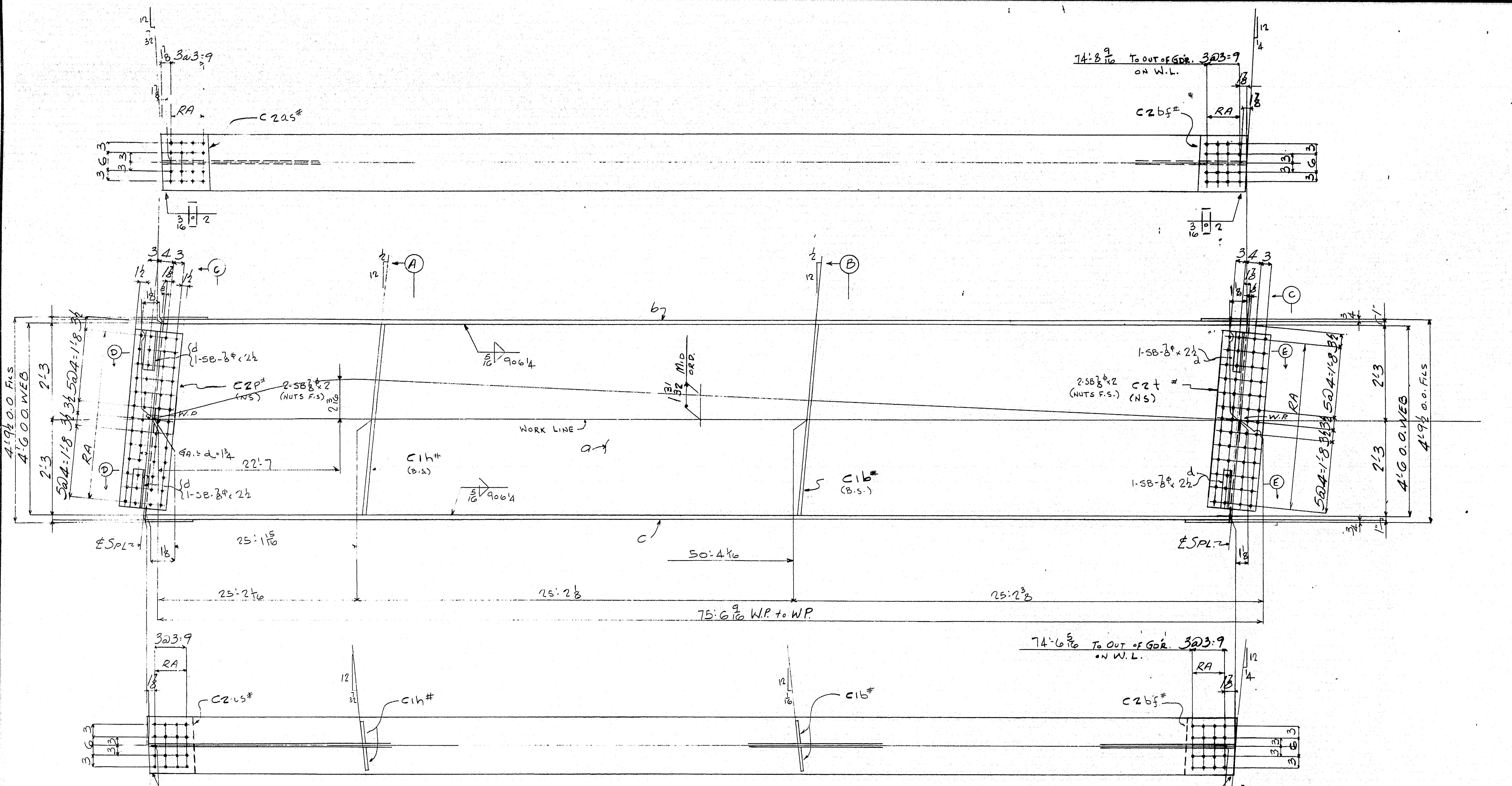
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
STRUCTURE PROJECT NO. I-95-1(22)VG
CONTR. NO. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RDN DATE 8-28-69 IN CHARGE [illegible]
CHECKED BY [illegible] DATE 9-17-69 SHOP NO.
CONTRACT GJG 849-021 DRAWING NO. 283

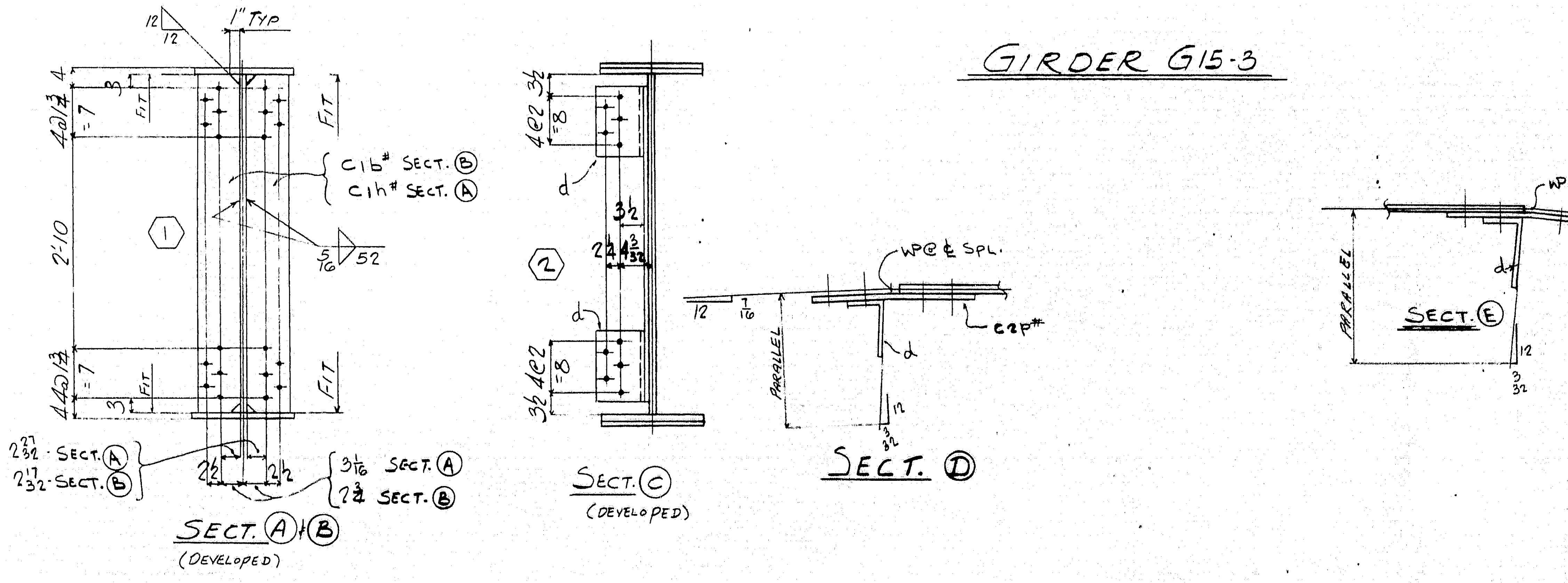
107-84

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

0 1 2 3 4 5 INCHES



GIRDER G15-3



LINE	ASSEMBLY MARK		NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	PAGE	LINE
1			1	GIRDER G15-3										
2											1			
3		a	1	PL	54		7/16	75	8 9/16	57 x 7/16	76	6 1/4	7	18
4		b	1	PLU	16		1	75	6 5/8		76	2	13	18
5		c	1	PLU	16		1	75	6 5/8		76	2	13	18
6		d	4	L	7	3 1/4	1/2	0	11	C.F. 7 x 4 x 1/2	40	0	36	39
7														
8														
9	C	1h#	2	BR	7		1/2	4	6	F2E	18	4	24	51
10	C	1b#	2	BR	7		1/2	4	6	F2E	18	4	24	51
11	C	2as#	2	PL	16		3/4	1	0 25/32		20	0	24	43
12	C	2p#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
13	C	2bf#	2	PL	16		3/4	1	0 27/32		20	0	24	43
14	C	2t#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
15														
16														
17														
18														
19		FWL	1	WD			5/16	302	1					
20		FWS	1	WD			5/16	34	8					
21		SD	1	WD			3/16	1	4					
22														
23														
24														
25			4	SB	7/8 ϕ			0	2	HH-HN				
26			4	SB	7/8 ϕ			0	2 1/2	HH & HN			M	
27														
28														
29														
30														
31														
32														
33														
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54														
55														

INSTALLMENT 15W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G15-3	GIRDER (57 1/2 x 16 x 76:10)	

PAY ITEM - 504.711

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

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 11/16" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - Nº 3

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

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

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

MATERIAL A36 STEEL
RIVETS OR BOLTS 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.
0		
9		
8		
7		
6		
5		
4		
3		
2		
1		

REVISION

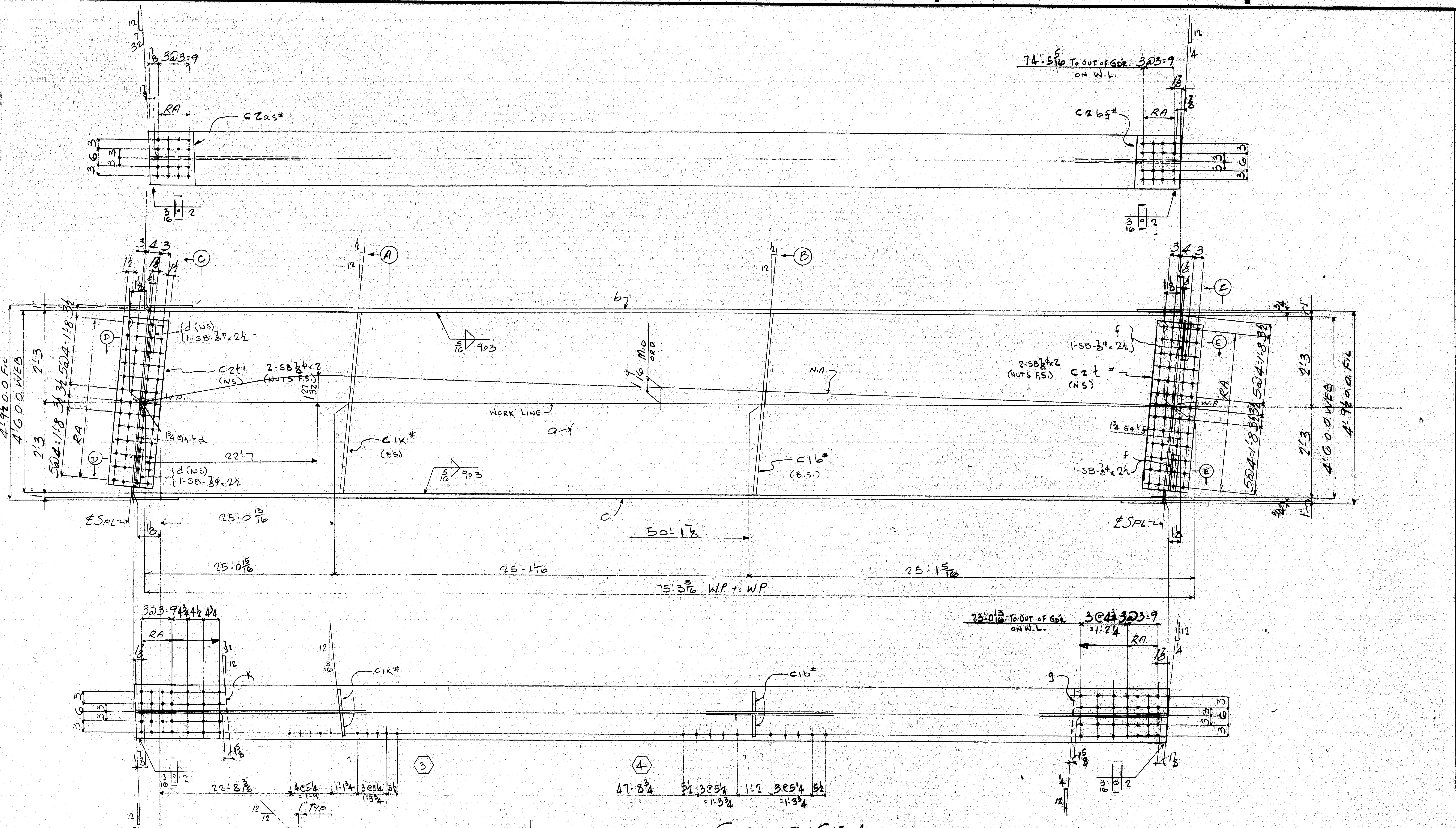
SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

GIRDER G15-3

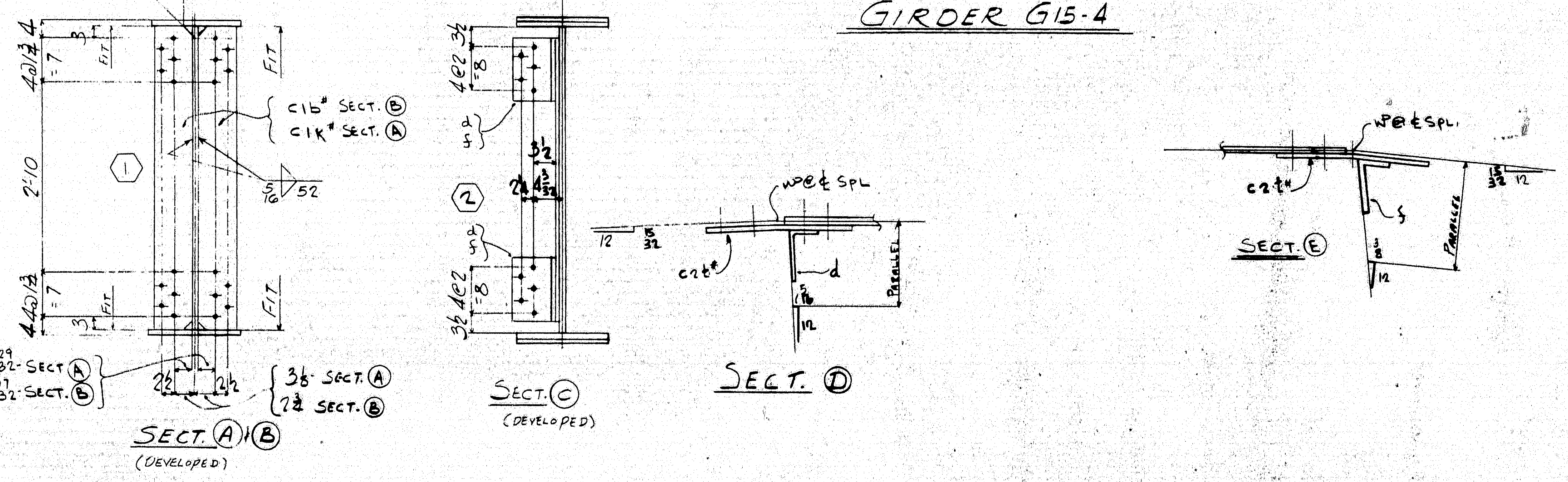
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
STRUCTURE PROJECT NO. I-95-1(22)16
CONTR. NO. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN
MADE BY R.D.N. DATE 9-2-69 IN CHARGE [illegible]
CHECKED BY [illegible] DATE 9-19-69 SHOP NO.
CONTRACT CJG249-021 DRAWING NO. 284

MASTER GDR #1 107-13

0 1 2 3 4 5 INCHES



GIRDER G15-4



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

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1			1	GIRDER G15-4										
2														
3		a	1	PL	54		7/16	75	5 5/16	57×7/16	76	6¼	7	18
4		b	1	PLU	16		1	75	3 3/8		76	2	13	18
5		c	1	PLU	16		1	75	3 3/8		76	2	13	18
6		d	2	L	7	3¼	½	0	11	C.F. 7×4×½ BENT	40	0	36	39
7		f	2	L	7	3¼	½	0	11	C.F. 7×4×½ BENT	40	0	36	39
8														
9	C	1K#	2	BR	7		½	4	6	F2E	18	4	24	51
10	C	1b#	2	BR	7		½	4	6	F2E	18	4	24	51
11	C	2as#	1	PL	16		¾	1	0 25/32		20	0	24	43
12	C	2t#	2	PLU	13		3/8	4	2	BENT	21	1	24	48
13	C	2bf#	1	PL	16		¾	1	0 27/32		20	0	24	43
14		g	1	PL	16		¾	2	3 3/32		20	0	24	43
15		K	1	PL	16		¾	2	2 25/32		20	0	24	43
16														
17														
18														
19		FWL	1	WD			5/16	301	0					
20		FWS	1	WD			5/16	38	4					
21		SD	1	WD			3/16	1	4					
22														
23														
24			4	SB	7/8φ			0	2	HH·HN }				
25			4	SB	7/8φ			0	2½	HH&HN }			M	
26														
27														
28														
29														
30														
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INSTALLMENT 15W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G15-4	GIRDER (57½×16×76'-7)	

PAY ITEM - 504.711

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S. S. Nishimura OCT 15 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 OR BOLTS 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		
1		

REVISION

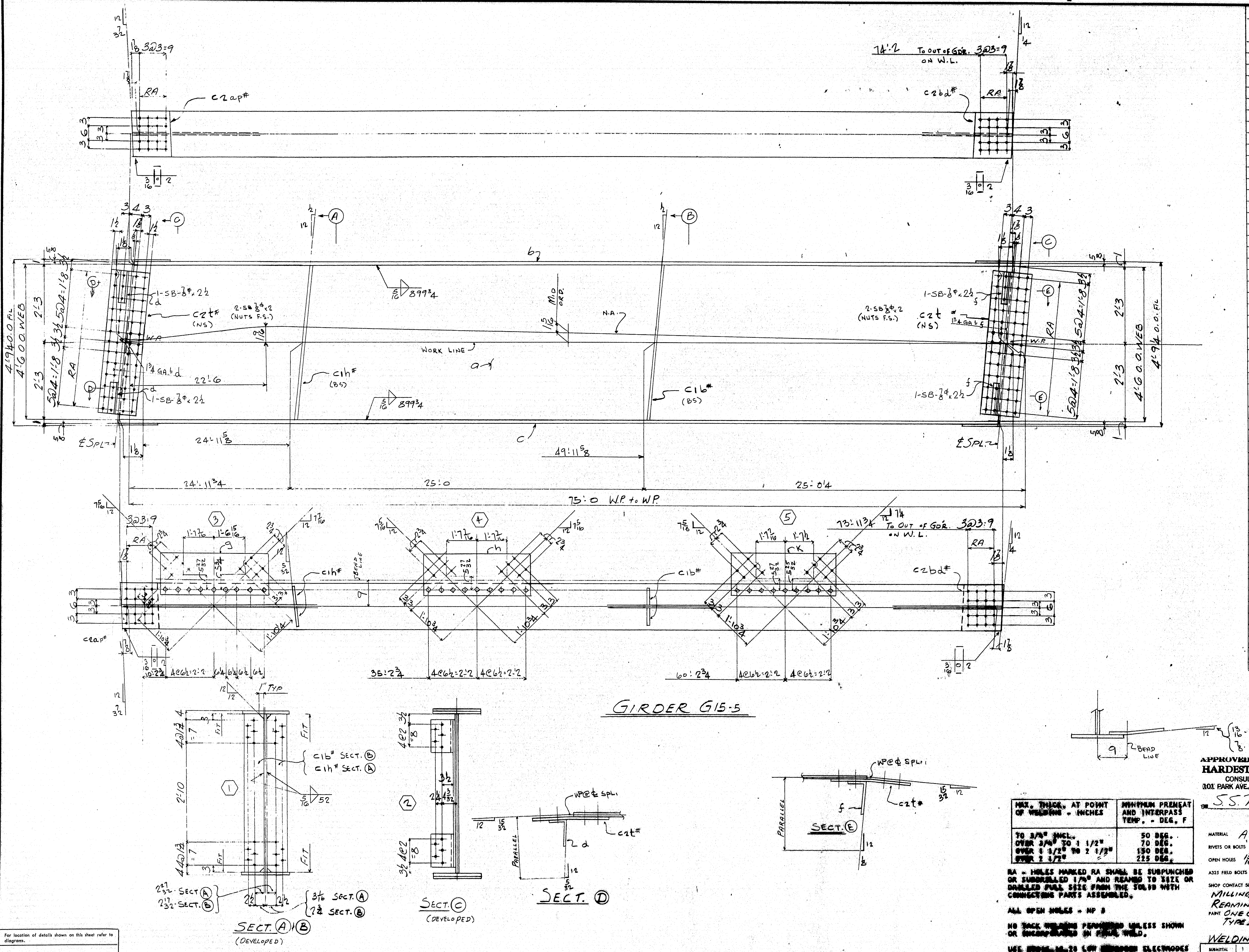
GIRDER G15-4

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 R.D.N DATE 9-2-69 IN CHARGE B.K. BERTOLET
CHECKED BY £ DATE 9-19-69 SHOP NO. 2
CONTRACT CJ6249-021 DRAWING NO. 285

MASTER GDR #1 107-86



				SHOP BILL									
LINE	ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SIZE OR POUNDS	THICK	LENGTH FT.	LENGTH IN.	REMARKS	LENGTH FT.	LENGTH IN.	PAGE	[illegible]
1		1	GIRDER G15-5										
2													
3	a	1	PL	54		7/16	75	2	57×7/16	76	6¼	7	18
4	b	1	PLU	16		1	75	0½		75	1	13	19
5	c	1	PLU	16		1	75	0½		75	1	13	19
6	d	2	L	7	3¼	½	0	11	c.f. 7×4×½ BENT	40	0	36	39
7	f	2	L	7	3¼	½	0	11	c.f. 7×4×½ BENT	40	0	36	39
8													
9	c 1h#	2	BR	7		½	4	6	F2E	18	4	24	51
10	c 1b#	2	BR	7		½	4	6	F2E	18	4	24	51
11	c 2ap#	2	PL	16		5/8	1	0 25/32				J	
12	c 2t#	2	PLU	13		3/8	4	2	BENT	21	1	24	48
13	c 2bd#	2	PL	16		5/8	1	0 27/32				J	
14													
15													
16													
17													
18													
19	FWL	1	WD			5/16	299	11					
20	FWS	1	WD			5/16	38	4					
21	SD	1	WD			3/16	1	4					
22													
23													
24	g	1	PL	14½		5/8	4	6½	BENT	26	0	28	19
25	h	1	PL	14½		5/8	4	7	BENT	26	0	28	19
26	k	1	PL	14½		5/8	4	7½	BENT	26	0	28	19
27													
28													
29													
30		27	325	7/8ϕ			0	3	}			M	
31		27	HW	1¾	15/16	3/16			}				
32													
33		4	SB	7/8ϕ			0	2	HH-HN }			M	
34		4	SB	7/8ϕ			0	2½	HH & HN }				
35													
36													
37													
38													
39													
40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													

)D1

INSTALLMENT 15W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G15-5	GIRDER (57¼×26½×76'-4)	

PAY ITEM - 504.711

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S. S. Nishimura
OCT 15 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 [illegible] LOW HYDROGEN ELECTRODES OR [illegible] FOR WELDING.

MATERIAL A36 STEEL
RIVETS OR BOLTS 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	Not	Sent

REVISION

GIRDER G15-5

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

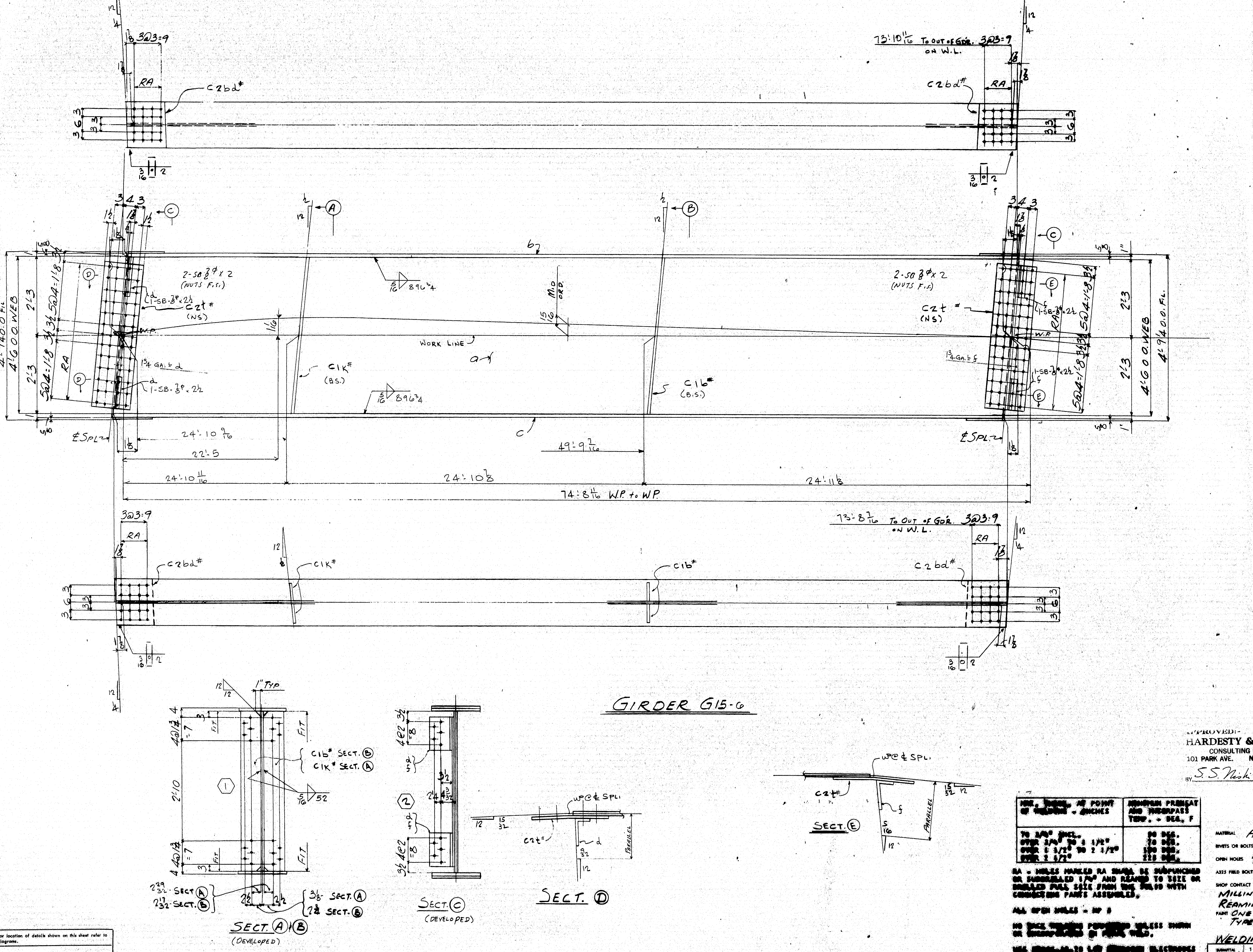
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY R.D.N. DATE 9-3-69 IN CHARGE B.K. [illegible]
CHECKED BY [illegible] DATE 9-19-69 SHOP NO. 2
CONTRACT CJG849-021 DRAWING NO. 286

107-87 1 MASTER GDR #1

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

0 1 2 3 4 5 INCHES



GIRDER G15-6

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 G15-6										
2													
3	a	1	PL	54		7/16	74	10 11/16	57 x 7/16	75	2¾	7	19
4	b	1	PLU	16		1	74	8 13/16		75	1	13	19
5	c	1	PLU	16		1	74	8 13/16		75	1	13	19
6	d	2	L	7	3¼	½	0	11	C.F. 7x4x½ BENT	40	0	36	39
7	f	2	L	7	3¼	½	0	11	C.F. 7x4x½ BENT	40	0	36	39
8													
9	c 1K#	2	BR	7		½	4	6	F2E	18	4	24	51
10	c 1b#	2	BR	7		½	4	6	F2E	18	4	24	51
11	c 2bd#	4	PL	16		⅝	1	0 27/32				J	
12	c 2t#	2	PLU	13		⅜	4	2	BENT	21	1	24	48
13													
14													
15													
16													
17													
18													
19	FWL	1	WD			5/16	298	11					
20	FWS	1	WD			5/16	34	8					
21	SD	1	WD			3/16	1	4					
22													
23													
24													
25		4	SB	⅞φ			0	2	HH·HN			M	
26		4	SB	⅞φ			0	2½	HH & HN				
27													
28													
29													
30													
31													
32													
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52													
53													
54													
55													

INSTALLMENT 15W

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G15-6	GIRDER (57¼ x 16 x 76'-3	

PAY ITEM - 504.711

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

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

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

ALL OPEN HOLES - NP 8

NO BACK [illegible] PERMITTED UNLESS SHOWN OR [illegible] IN FIELD WELD.

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

MATERIAL A36 STEEL
RIVETS OR BOLTS 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										

REVISION NO.	DATE	INIT.
0		
9		
8		
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1		

GIRDER G15-6

CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
STRUCTURE PROJECT NO I-95-1(22)46
CONTR. NO 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY R.D.N. DATE 9-3-69 IN CHARGE B.K. BERTOLET
CHECKED BY E DATE 9/19/69 SHOP NO. 2
CONTRACT CJ6249-021 DRAWING NO. 287

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

a	b	c

107-88

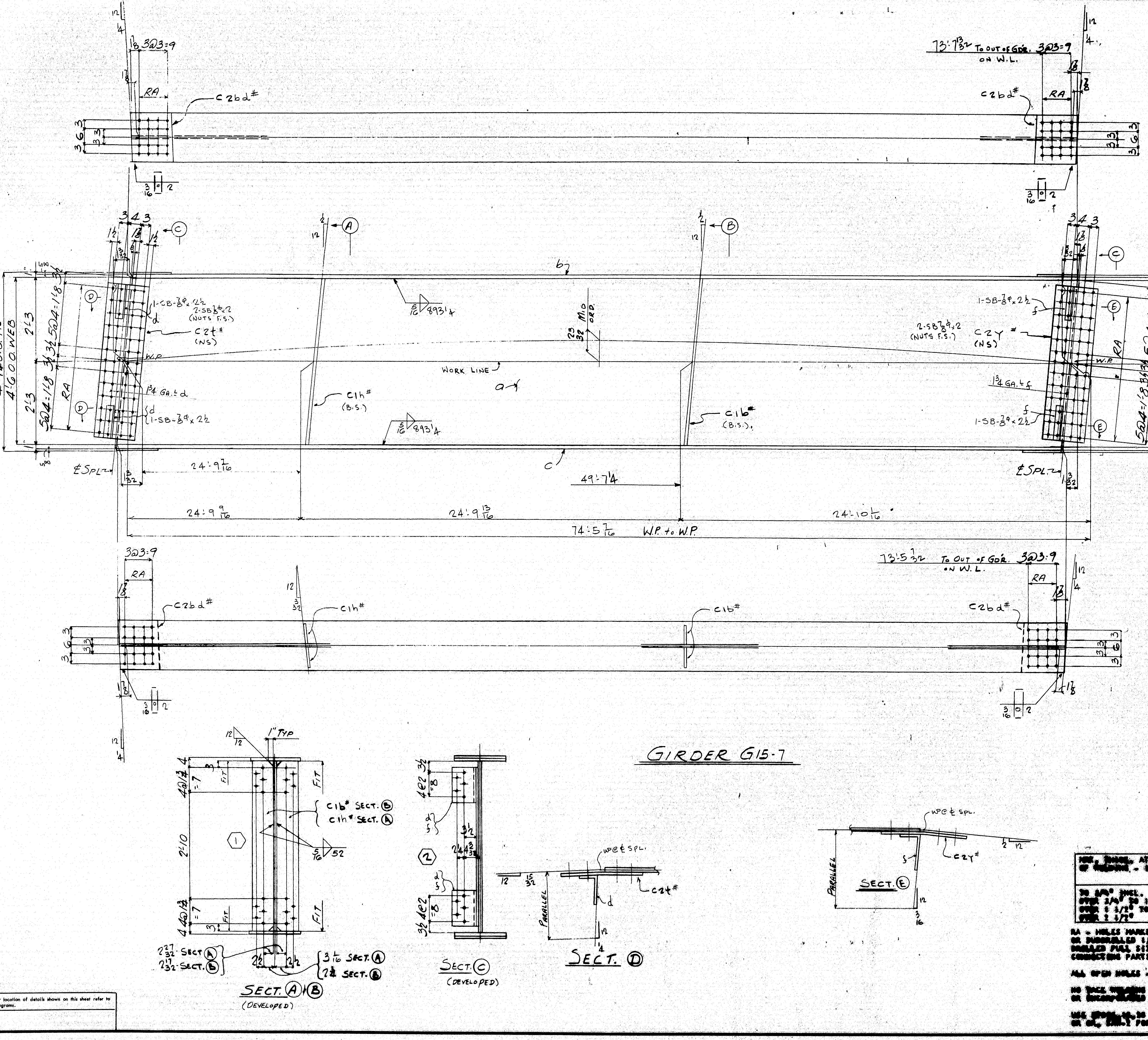
MASTER GDR #1

33453 (Rev. C 4-60)

OCT 28 1969

171

INCHES 0 1 2 3 4 5



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

LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	
1			1	GIRDER G15-7										
2														
3		a	1	PL	54		7/16	74	7 1/2	57×7/16	75	2 3/4	7	19
4		b	1	PLU	16		1	74	5 9/16		75	1	13	19
5		c	1	PLU	16		1	74	5 9/16		75	1	13	19
6		d	2	L	7	3 1/4	1/2	0	11	C.F. 7×4×1/2 BENT	40	0	36	39
7		f	2	L	7	3 1/4	1/2	0	11	C.F. 7×4×1/2 BENT	40	0	36	39
8														
9	c	1h#	2	BR	7		1/2	4	6	F2E	18	4	24	51
10	c	1b#	2	BR	7		1/2	4	6	F2E	18	4	24	51
11	c	2bd#	4	PL	16		5/8	1	0 27/32				J	
12	c	2Y#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
13	c	2t#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
14														
15														
16														
17														
18														
19		FWL	1	WD			5/16	297	9					
20		FWS	1	WD			5/16	38	4					
21		SD	1	WD			3/16	1	4					
22														
23														
24														
25			4	SB	7/8φ			0	2	HH·HN				
26			4	SB	7/8φ			0	2 1/2	HH & HN			M	
27														
28														
29														
30														
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54														
55														

INSTALLMENT 15W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G15-7	GIRDER (57 1/4×16×75'-9)	

PAY ITEM - 504.711

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S. S. Nishimura OCT 15 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 1/16" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - NP 8

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

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

MATERIAL A36 STEEL
RIVETS OR BOLTS 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		
1		
REVISION.		

GIRDER G15-7

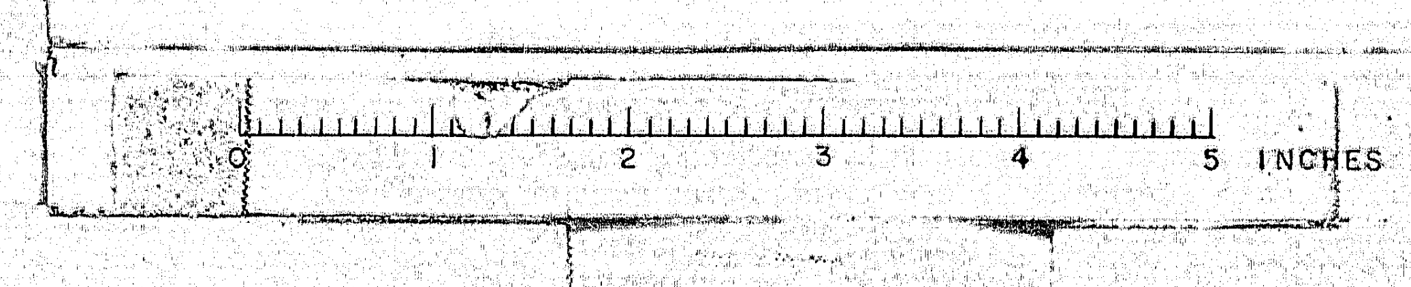
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
STRUCTURE PROJECT NO I-95-1(22)16
CONTR. No 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RDN DATE 9-3-69 IN CHARGE B.K. BERTOLET
CHECKED BY E DATE 9-19-69 SHOP NO. 2
CONTRACT CJG249-021 DRAWING NO. 288

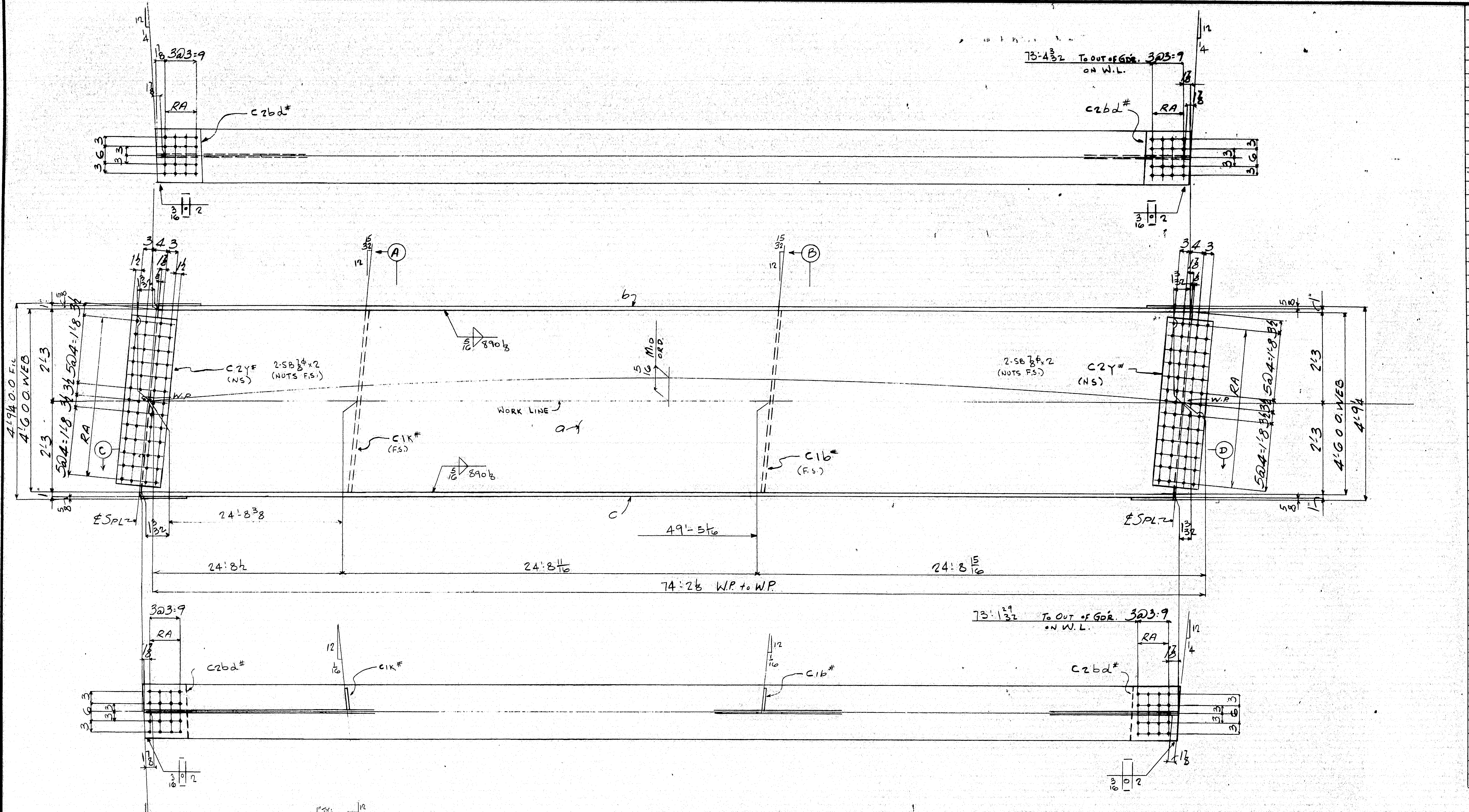
33453 (Rev. C 4-60)

107-89 1 MASTER GDR #1

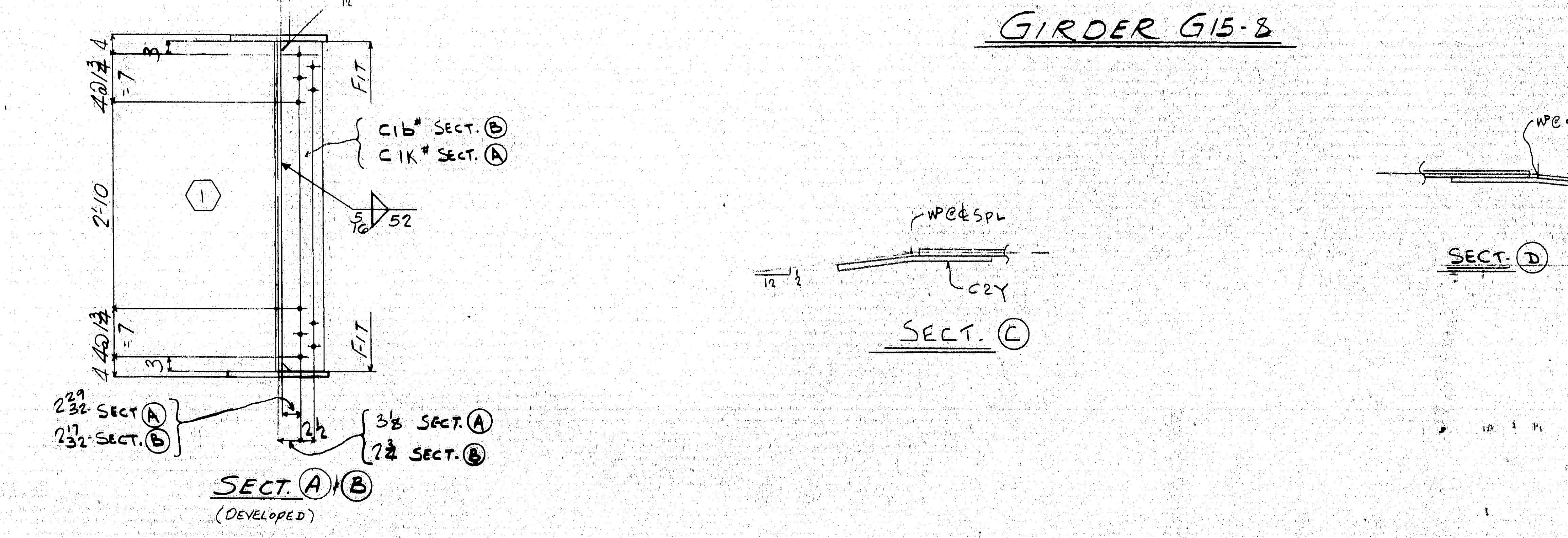
OCT 28 1969

171





GIRDER G15-8



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 G15-8										
2														
3		a	1	PL	54		7/16	74	4 1/16	57 x 7/16	75	2 3/4	7	19
4		b	1	PLU	16		1	74	2 1/4		75	1	13	19
5		c	1	PLU	16		1	74	2 1/4		75	1	13	19
6														
7														
8														
9	c	1K#	1	BR	7		1/2	4	6	F2E	18	4	24	51
10	c	1b#	1	BR	7		1/2	4	6	F2E	18	4	24	51
11	c	2bd#	4	PL	16		5/8	1	0 27/32				J	
12	c	2Y#	2	PLU	13		3/8	4	2	BENT	21	1	24	48
13														
14														
15														
16														
17														
18														
19		FWL	1	WD			5/16	296	9 1/2					
20		FWS	1	WD			5/16	17	4					
21		SD	1	WD			3/16	1	4					
22														
23														
24			4	SB	7/8 φ			0	2	HH-HN			M	
25														
26														
27														
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55														

INSTALLMENT 15W

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G15-8	GIRDER 57 1/4 x 16 x 75'-6)	

PAY ITEM - 504.711

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

NO [illegible] PERMITTED UNLESS SHOWN OR [illegible] WELD.

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

MATERIAL A36 STEEL
RIVETS OR BOLTS 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.	DATE	INIT.
1		
2		
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5		
6		
7		
8		
9		
0		

GIRDER G15-8
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
STRUCTURE PROJECT NO I-95-1(22)6
CONTR. NO 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY R.D.N. DATE 9-4-69 IN CHARGE B.K. BERTOLET
CHECKED BY ¢ DATE 9-19-69 SHOP NO. 2
CONTRACT CJ6249-021 DRAWING NO. 289

30453 (Rev. C 4-60)

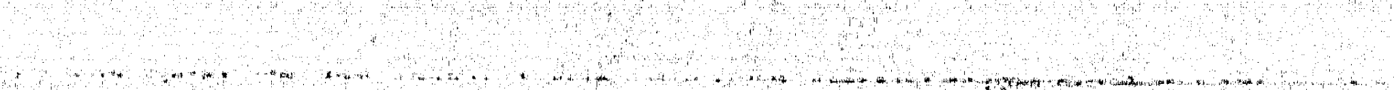
107-90

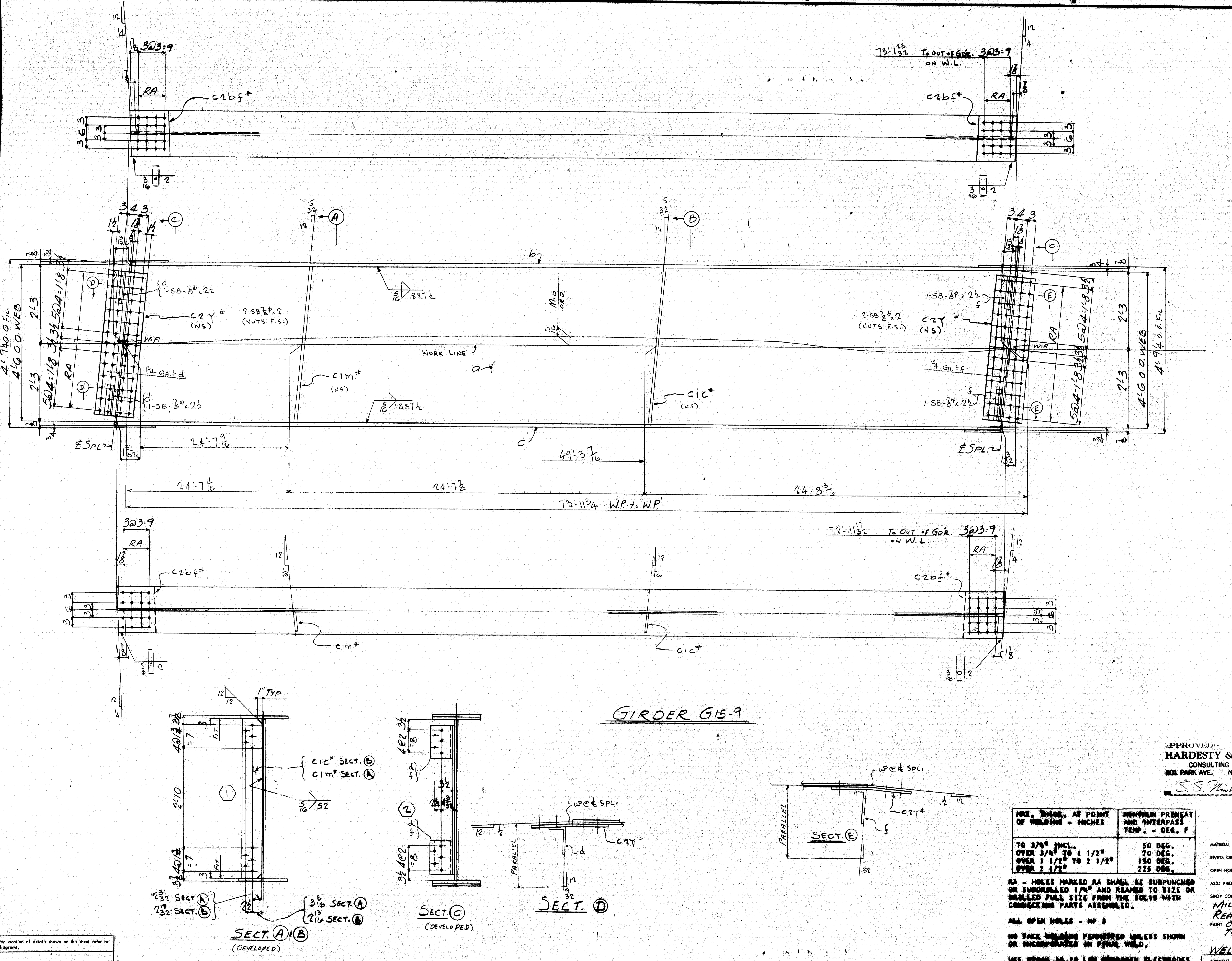
MASTER GDR #1

OCT 20 1969

a	b	c

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





GIRDER G15-9

LINE	ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	PAGE	[illegible]
1		1	GIRDER G15-9										
2													
3	a	1	PL	54		7/16	74	1 11/16	57 x 7/16	75	2¾	7	19
4	b	1	PLU	16		7/8	73	11 7/8		74	0¾	13	20
5	c	1	PLU	16		7/8	73	11 7/8		74	0¾	13	20
6	d	2	L	7	3¼	½	0	11	c.f. 7x4x½ BENT	40	0	36	39
7	f	2	L	7	3¼	½	0	11	c.f. 7x4x½ BENT	40	0	36	39
8													
9	c 1m#	1	BR	7		½	4	6	F2E	18	4	24	51
10	c 1c#	1	BR	7		½	4	6	F2E	18	4	24	51
11	c 2bf#	4	PL	16		¾	1	0 27/32		20	0	24	43
12	c 2Y#	2	PLU	13		3/8	4	2	BENT	21	1	24	48
13													
14													
15													
16													
17													
18													
19	FWL	1	WD			5/16	295	10					
20	FWS	1	WD			5/16	17	4					
21	SD	1	WD			3/16	1	4					
22													
23													
24		4	SB	7/8φ			0	2	HH & HN				
25		4	SB	7/8φ			0	2½	HH & HN			M	
26													
27													
28													
29													
30													
31													
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53													
54													
55													

INSTALLMENT 15 E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G15-9	GIRDER (57¼ x 16 x 75:0½)	

PAY ITEM - 504.711

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

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

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 - Nº 3

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

USE E7016, 18, 28 LOW HYDROGEN ELECTRODES OR GR. E7XX2 FOR WELDING.

MATERIAL A36 STEEL
RIVETS OR BOLTS 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

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

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

GIRDER G15-9

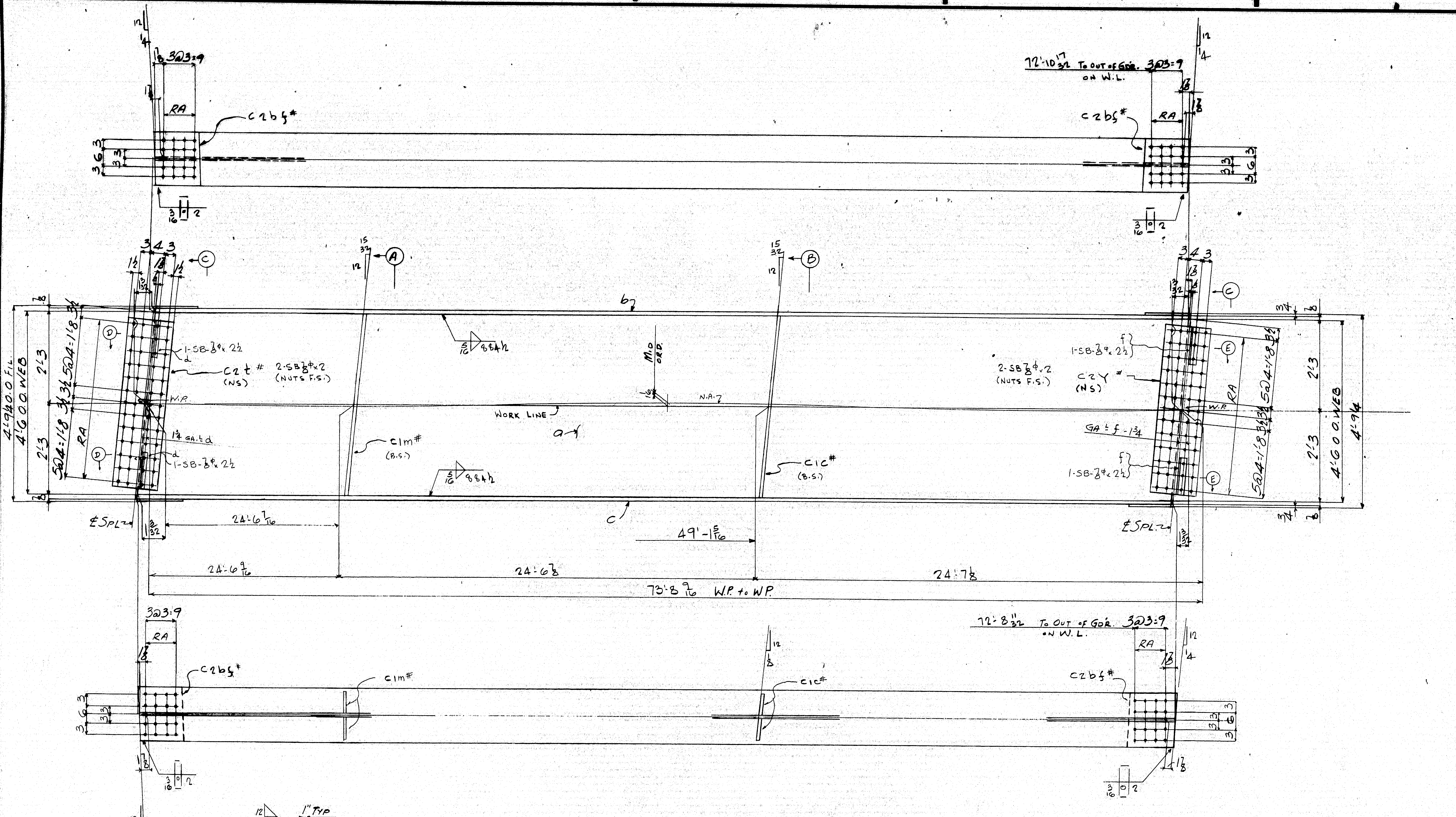
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
STRUCTURE PROJECT No I-95-1(22)16
CONTR No 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL

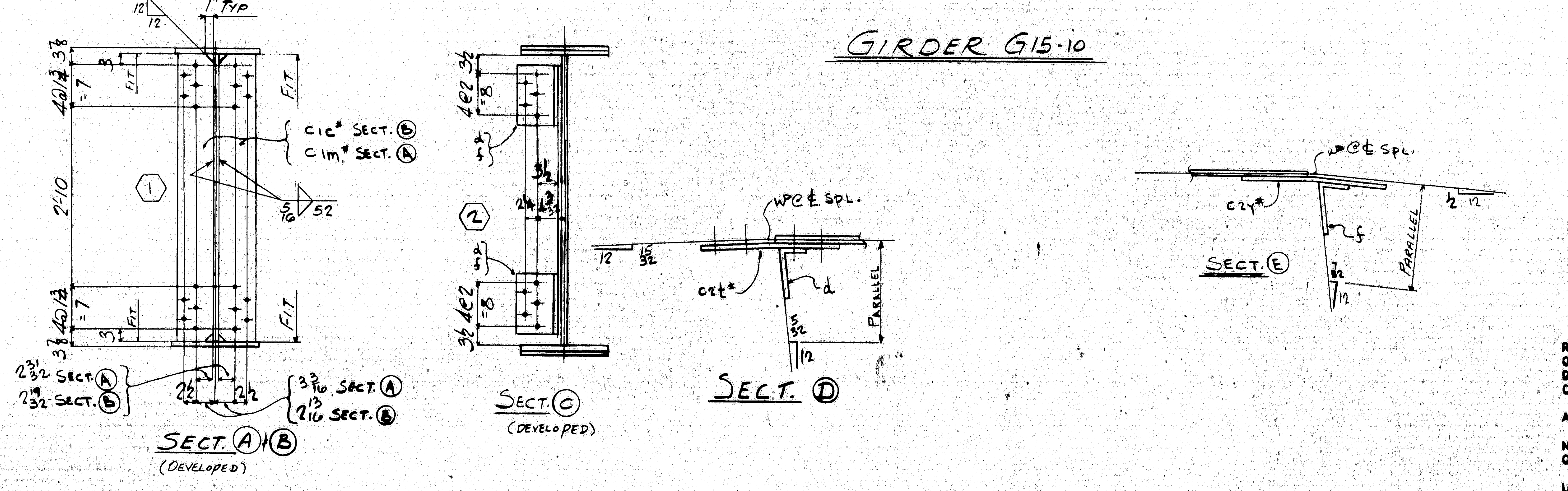
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY R.D.N. DATE 9-4-69 IN CHARGE B.K. BERTOLET
CHECKED BY ℄ DATE 9-19-69 SHOP NO. 2
CONTRACT CJ6249-021 DRAWING NO. 290

107-91 1 MASTER GDR #1

35453 (Rev. C 4-65)

OCT 23 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.	MILL ORDER ITEM PAGE	MILL ORDER ITEM LINE
1		1	GIRDER G15-10										
2													
3	a	1	PL	54		7/16	73	10½	57×7/16	74	1¾	7	20
4	b	1	PLU	16		7/8	73	8 11/16		74	0¾	13	20
5	c	1	PLU	16		7/8	73	8 11/16		74	0¾	13	20
6	d	2	L	7	3¼	½	0	11	c.f. 7×4×½ BENT	40	0	36	39
7	f	2	L	7	3¼	½	0	11	c.f. 7×4×½ BENT	40	0	36	39
8													
9	c1m#	2	BR	7		½	4	6	F2E	18	4	24	51
10	c1c#	2	BR	7		½	4	6	F2E	18	4	24	51
11	c2bf#	4	PL	16		¾	1	0 27/32		20	0	24	43
12	c2Y#	1	PLU	13		⅜	4	2	BENT	21	1	24	48
13													
14	c2t	1	PLU	13		⅜	4	2	BENT	21	1	24	48
15													
16													
17													
18													
19	FWL	1	WD			5/16	294	10					
20	FWS	1	WD			5/16	34	8					
21	SD	1	WD			3/16	1	4					
22													
23													
24		4	SB	7/8φ			0	2	HH-HN			M	
25		4	SB	7/8φ			0	2½	HH & HN				
26													
27													
28													
29													
30													
31													
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49													
50													
51													
52													
53													
54													
55													

INSTALLMENT 15E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G15-10	GIRDER (57¼×16×74'-11½	

PAY ITEM - 504.711

a	b	c

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

E6

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

MATERIAL A36 STEEL
RIVETS OR BOLTS 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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4		
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2		
1		

REVISION

GIRDER G15-10

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

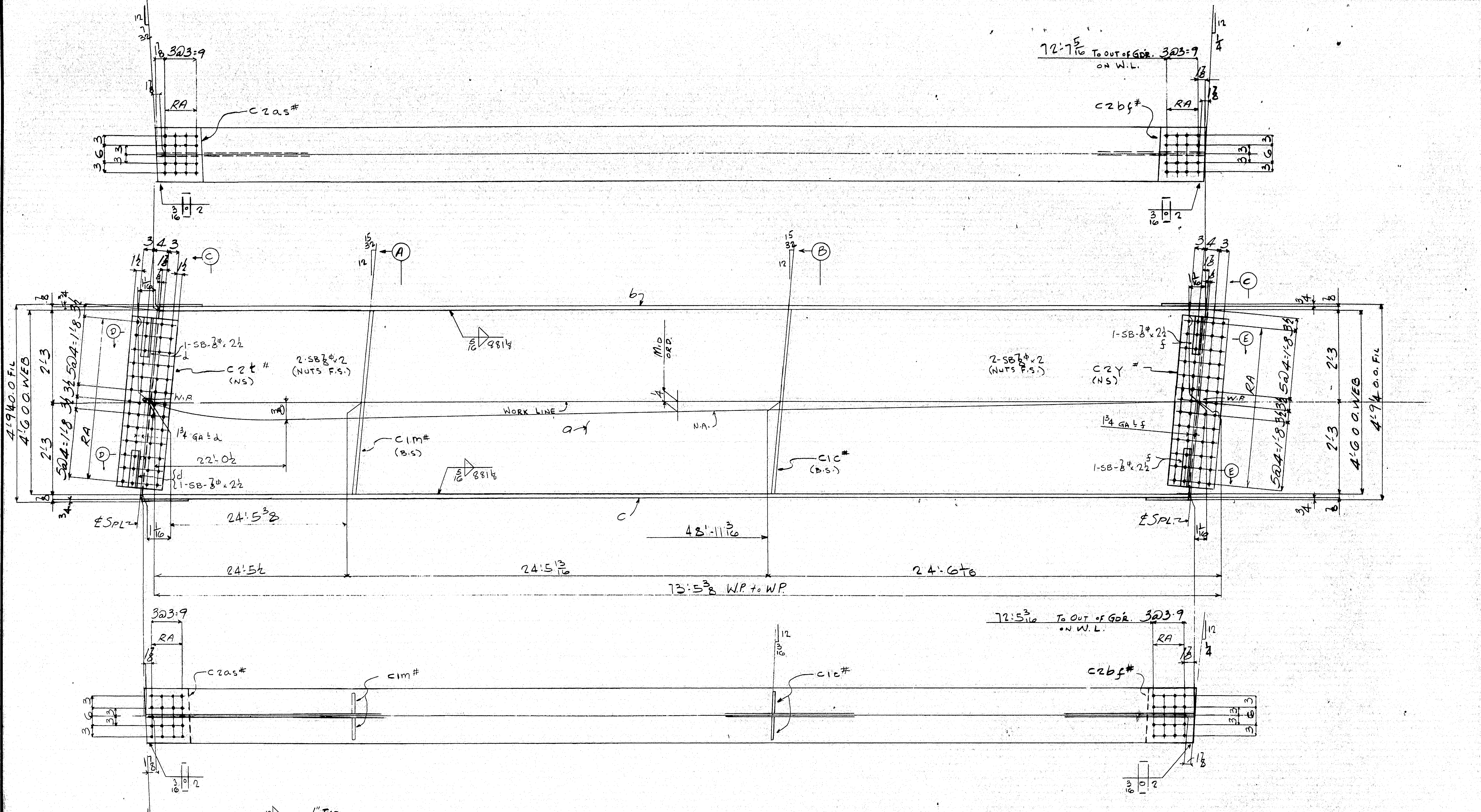
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RDN DATE 9-4-69 IN CHARGE B.K. BERTOLET
CHECKED BY ℄ DATE 9-19-69 SHOP NO. 7
CONTRACT CJ6249-021 DRAWING NO. 291

35453 (Rev. C 4-63)

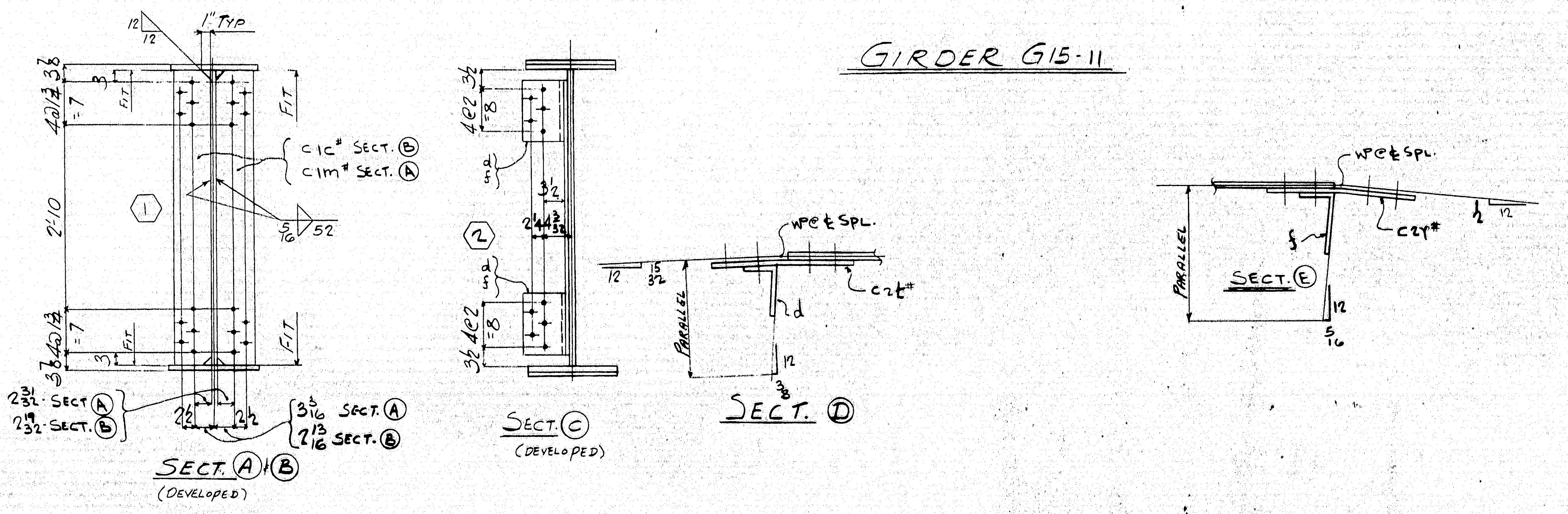
107-92 1 MASTER GDR #1

OCT 20 1969

171



GIRDER G15-11



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 G15-11										
2													
3	a	1	PL	54		7/16	73	7 1/4	57X7/16	74	1 3/4	7	20
4	b	1	PLU	16		7/8	73	5 1/2		74	0 3/4	13	20
5	c	1	PLU	16		7/8	73	5 1/2		74	0 3/4	13	20
6	d	2	L	7	3 1/4	1/2	0	11	C.F. 7x4x1/2 BENT	40	0	36	39
7	f	2	L	7	3 1/4	1/2	0	11	C.F. 7x4x1/2 BENT	40	0	36	39
8													
9	C1m#	2	BR	7		1/2	4	6	F2E	18	4	24	51
10	C1c#	2	BR	7		1/2	4	6	F2E	18	4	24	51
11	C2as	2	PL	16		3/4	1	0 25/32		20	0	24	43
12	C2t#	2	PLU	13		3/8	4	2	BENT	21	1	24	48
13	C2bf#	2	PL	16		3/4	1	0 27/32		20	0	24	43
14	C2Y#	2	PLU	13		3/8	4	2	BENT	21	1	24	48
15													
16													
17													
18													
19	FWL	1	WD			5/16	293	8 1/2					
20	FWS	1	WD			5/16	34	8					
21	SD	1	WD			3/16	1	4					
22													
23													
24													
25		4	SB	7/8ø			0	2	HH·HN				
26		4	SB	7/8ø			0	2 1/2	HH & HN				
27													
28													
29													
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INSTALLMENT 15E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G15-11	GIRDER 57 1/4x16x74:5 1/2	

PAY ITEM - 504.711

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
BY S. S. Nishimura OCT 15 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 E7018, 18, 28 LOW HYDROGEN ELECTRODES OR GR. [illegible]-2 FOR WELDING.

MATERIAL A36 STEEL
RIVETS OR BOLTS NONE
OPEN HOLES 15/16ø
A325 FIELD BOLTS 7/8ø
SHOP CONTACT SURFACES NO PAINT
MILLING - NONE
REAMING - AS NOTED
PAINT ONE COAT AASHO M-72 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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1		

GIRDER G15-11

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

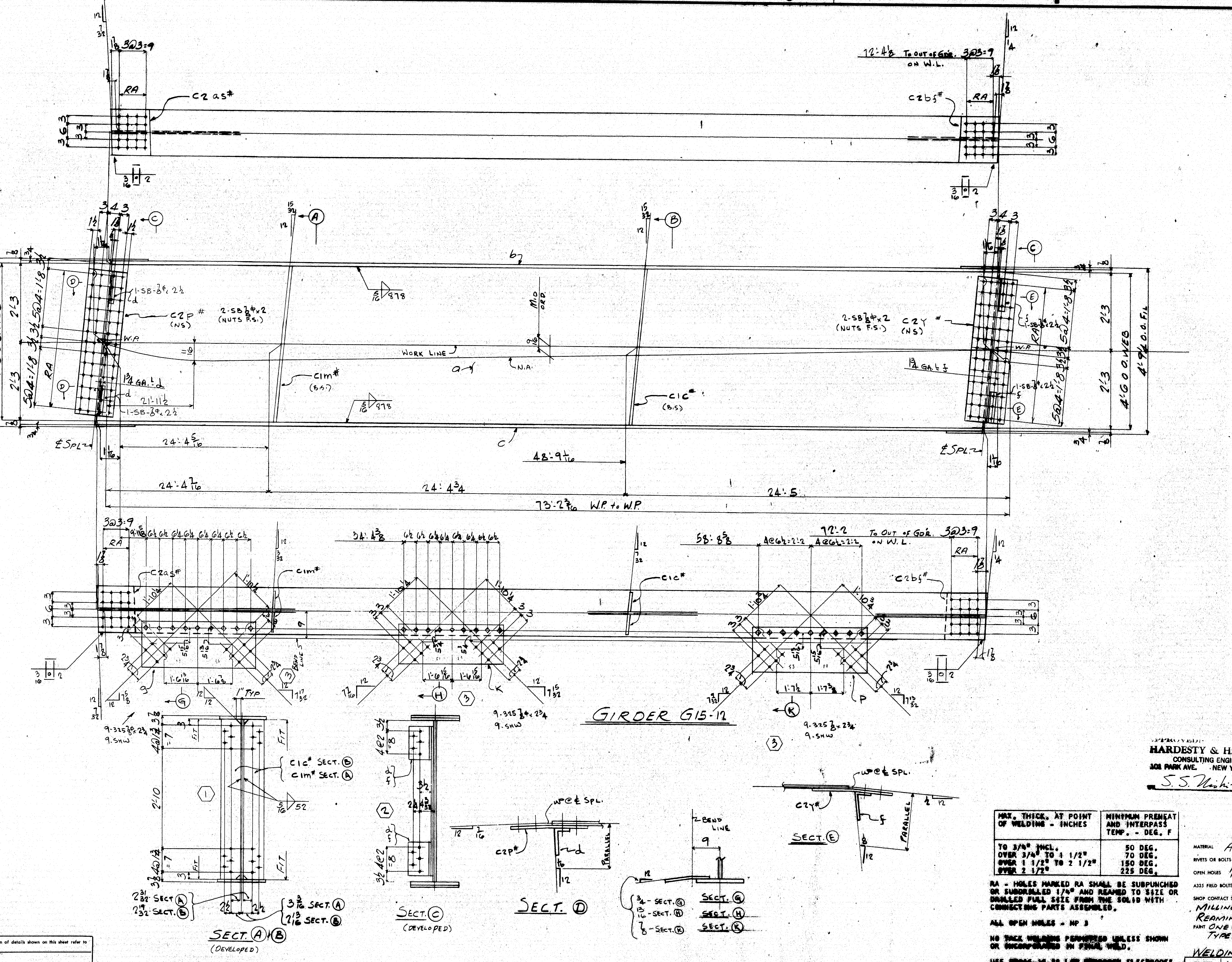
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY R.O.N. DATE 9-4-69 IN CHARGE B.K. BERTOLET
CHECKED BY ₵ DATE 9-19-69 SHOP NO. 2
CONTRACT CJ6249-021 DRAWING NO. 292

33453 (Rev.C 4-65)

MASTER GDR #1 / 07-93 OCT 28 1969

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



LINE	ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	ITEM PAGE	ITEM LINE
1		1	GIRDER G15-12										
2													
3	a	1	PL	54		7/16	73	4 1/16	57 x 7/16	74	1 3/4	7	20
4	b	1	PLU	16		7/8	73	2 1/4		74	0 3/4	13	20
5	c	1	PLU	16		7/8	73	2 1/4		74	0 3/4	13	20
6	d	2	L	7	3 1/4	1/2	0	11	C.F. 7x4x1/2 BENT	40	0	36	39
7	f	2	L	7	3 1/4	1/2	0	11	C.F. 7x4x1/2 BENT	40	0	36	39
8													
9	c1m#	2	BR	7		1/2	4	6	F2E	18	4	24	51
10	c1c#	2	BR	7		1/2	4	6	F2E	18	4	24	51
11	c2as#	2	PL	16		3/4	1	0 25/32		20	0	24	43
12	c2p#	1	PLU	13		3/8	4	2		21	1	24	48
13	c2bs#	2	PL	16		3/4	1	0 27/32		20	0	24	43
14	c2y#	1	PLU	13		3/8	4	2		21	1	24	48
15													
16													
17													
18													
19	FWL	1	WD			5/16	292	8					
20	FWS	1	WD			5/16	34	8					
21	SD	1	WD			3/16	1	4					
22													
23	g	1	PL	14 1/2		5/8	4	6	BENT	26	0	28	19
24	K	1	PL	14 1/2		5/8	4	6	BENT	26	0	28	19
25	P	1	PL	14 1/2		5/8	4	7	BENT	26	0	28	19
26													
27													
28													
29		27	325	7/8φ			0	2 3/4				M	
30		27	HW	1 3/4	15/16	3/16							
31													
32													
33		4	SB	7/8φ			0	2	HH·HN			M	
34		4	SB	7/8φ			0	2 1/2	HH & HN				
35													
36													
37													
38													
39													
40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													

INSTALLMENT 15E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G15-12	GIRDER (57 1/4 x 23 x 74'-6)	

PAY ITEM - 504.711

HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S. S. Nishimura NOV 25 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. EM-2 FOR WELDING.

MATERIAL A36 STEEL
RIVETS OR BOLTS 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

GIRDER G15-12

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

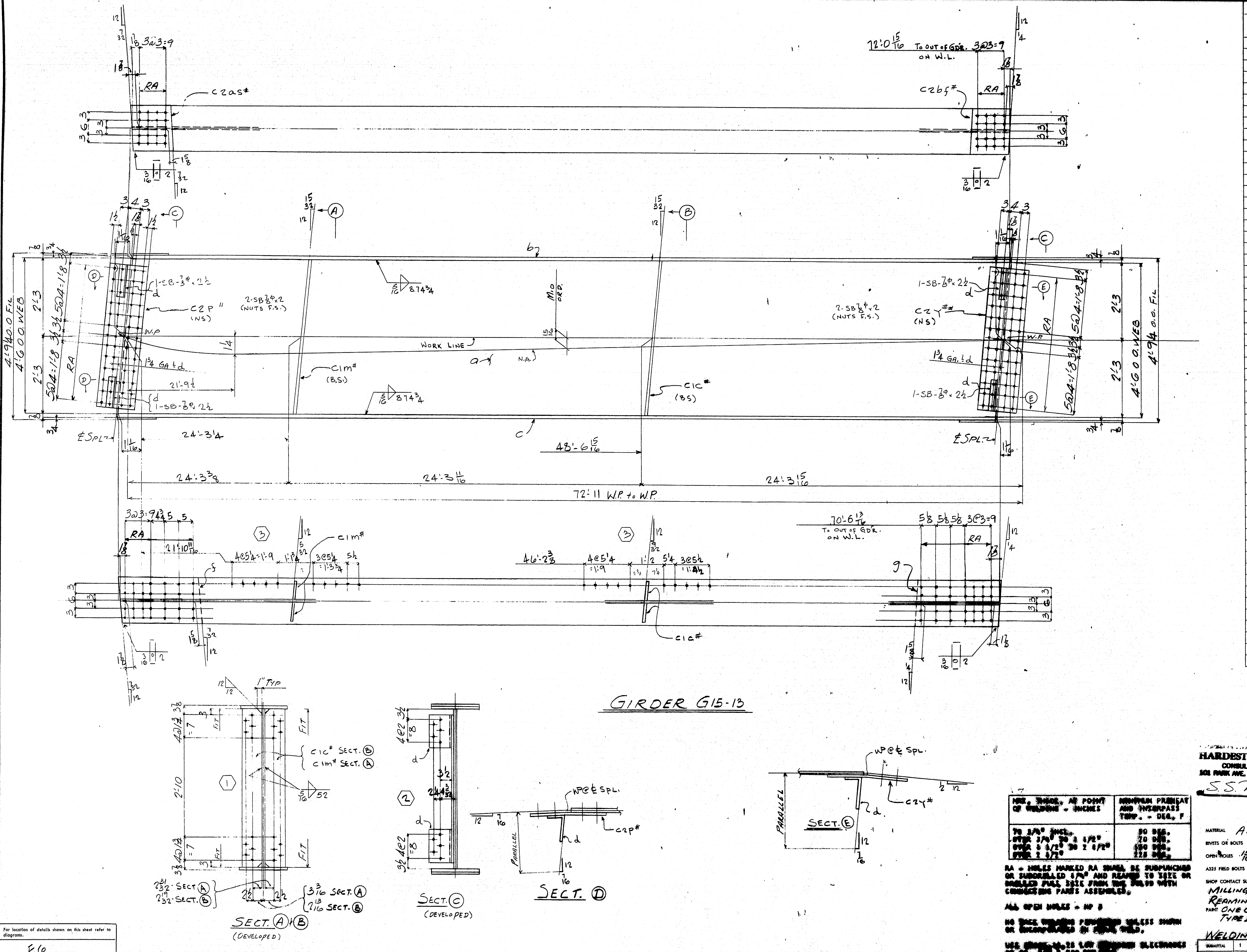
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY R.D.N. DATE 9-5-69 IN CHARGE B.K. BERTOLET
CHECKED BY C DATE 9-19-69 SHOP NO. 2
CONTRACT CJ6249-021 DRAWING NO. 293

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

107-94

MASTER GDR #1

38683 (Rev. C 4-66) OCT 28 1968



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 G15-13										
2													
3	a	1	PL	54		7/16	73	0 7/8	57×7/16	74	1 3/4	7	20
4	b	1	PLU	16		7/8	72	11 1/16		73	0	14	20
5	c	1	PLU	16		7/8	72	11 1/16		73	0	14	20
6	d	4	L	7	3 1/4	1/2	0	11	C.F. 7×4×1/2 BENT	40	0	36	39
7													
8													
9	c1m#	2	BR	7		1/2	4	6	F2E	18	4	24	51
10	c1c#	2	BR	7		1/2	4	6	F2E	18	4	24	51
11	c2bf#	1	PL	16		3/4	1	0 27/32		20	0	24	43
12	c2y#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
13	c2as#	1	PL	16		3/4	1	0 25/32		20	0	24	43
14	c2p#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
15	f	1	PL	16		3/4	2	3 19/32		20	0	24	43
16	g	1	PL	16		3/4	2	4 5/32		20	0	24	43
17													
18													
19	FWL	1	WD			5/16	291	7					
20	FWS	1	WD			5/16	34	8					
21	SD	1	WD			3/16	1	4					
22													
23													
24		4	SB	7/8φ			0	2	HH-HN				
25		4	SB	7/8φ			0	2 1/2	HH & HN			M	
26													
27													
28													
29													
30													
31													
32													
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52													
53													
54													
55													

INSTALLMENT 15E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G15-13	GIRDER 57 1/4 × 16 × 74'-2	

PAY ITEM - 504.711

HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S. S. Nishimura OCT 15 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 3/16" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - NP 8

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

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

MATERIAL A36 STEEL
RIVETS OR BOLTS 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		
1		

REVISION

GIRDER G15-13

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

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

POTTSTOWN DRAFTING ROOM POTTSTOWN
MADE BY RDN DATE 9-9-69 IN CHARGE [illegible]
CHECKED BY [illegible] DATE 9-19-69 SHOP NO. 2
CONTRACT CJG849-021 DRAWING NO. 294

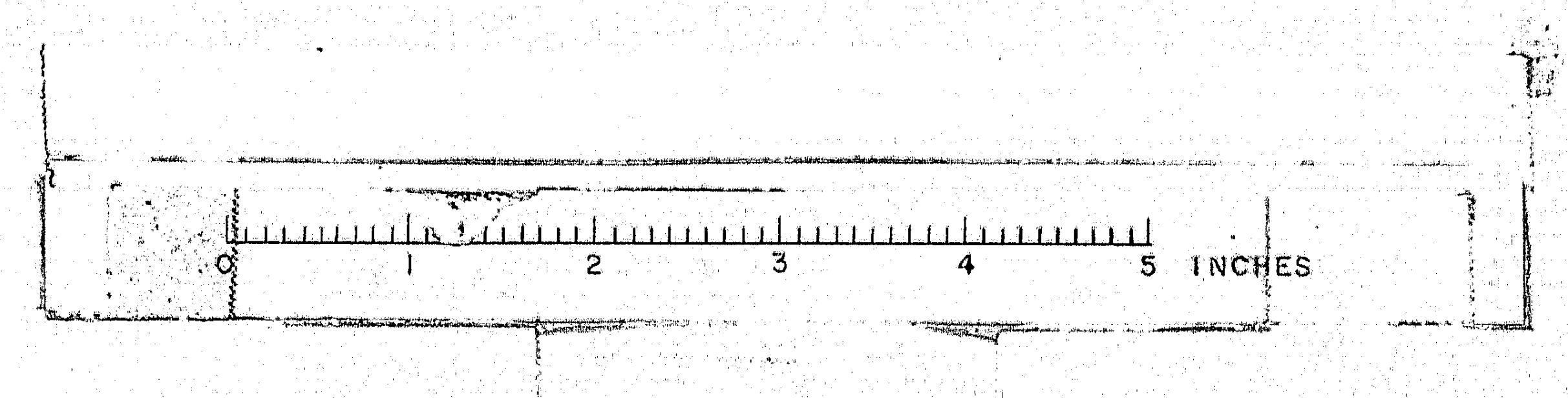
107-95 1.

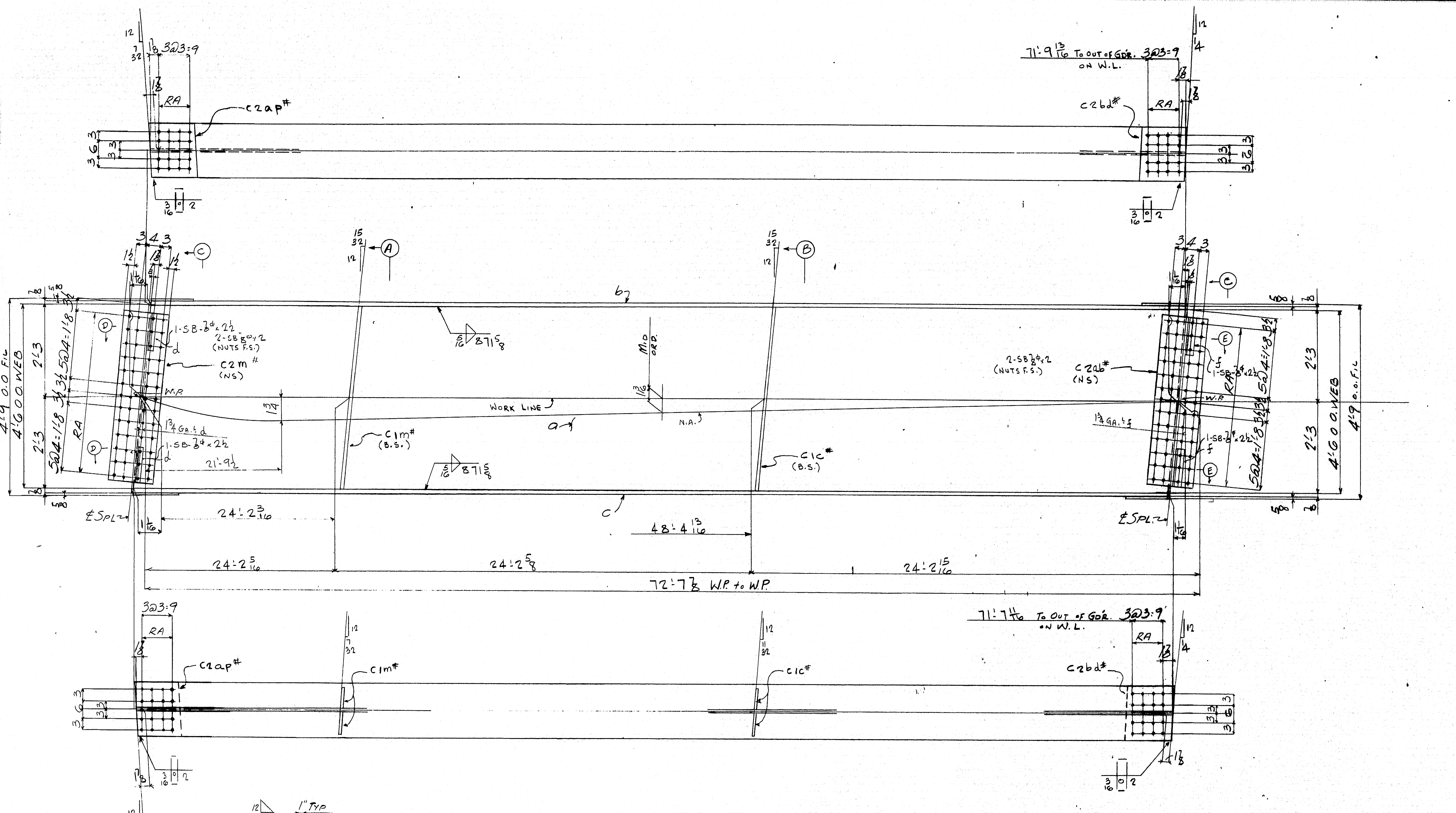
MASTER GDR #1

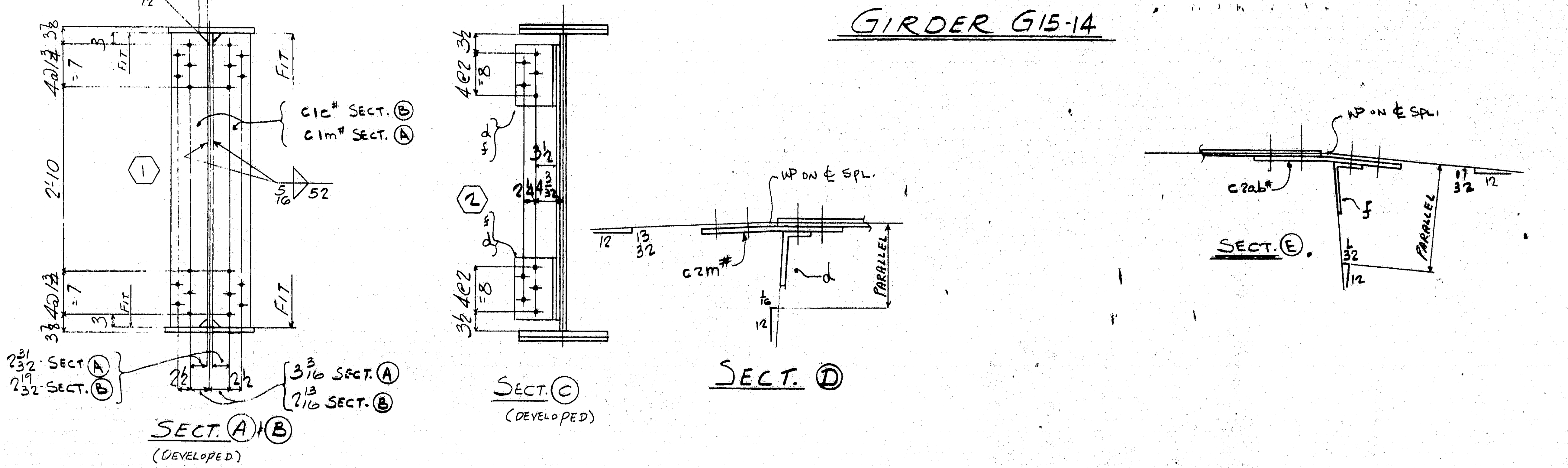
For location of details shown on this sheet refer to diagrams.

E6

a b c







GIRDER G15-14

LINE	ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	MILL ORDER LENGTH FT.	MILL ORDER LENGTH IN.	PAGE	LINE
1		1	GIRDER G15-14										
2													
3	a	1	PL	54		7/16	72	9¾	57×7/16	73	1	8	18
4	b	1	PLU	16		7/8	72	8		73	0	14	20
5	c	1	PLU	16		7/8	72	8		73	0	14	20
6	d	2	L	7	3¼	½	0	11	C.F. 7×4×½ BENT	40	0	36	39
7	f	2	L	7	3¼	½	0	11	C.F. 7×4×½ BENT	40	0	36	39
8													
9	C1m#	2	BR	7		½	4	6	F2E	18	4	24	51
10	C1c#	2	BR	7		½	4	6	F2E	18	4	24	51
11	C2ap#	2	PL	16		5/8	1	0 25/32				J	
12	C2m#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
13	C2bd#	2	PL	16		5/8	1	0 27/32				J	
14	C2ab#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
15													
16													
17													
18													
19	FWL	1	WD			5/16	290	6½					
20	FWS	1	WD			5/16	34	8					
21	SD	1	WD			3/16	1	4					
22													
23													
24		4	SB	7/8ϕ			0	2	HH-HN			M	
25		4	SB	7/8ϕ			0	2½	HH & HN				

INSTALLMENT 15E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G15-14	GIRDER 57×16×74'-0	

PAY ITEM - 504.711

APPROVED
HARDESTY & HANOVER
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S. S. Nishimura OCT 15 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 3/4" AND REAMED TO SIZE OR DRILLED FULL SIZE FROM THE SOLID WITH CONNECTING PARTS ASSEMBLED.

ALL OPEN HOLES - [illegible]

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

[illegible] LOW HYDROGEN ELECTRODES OR EQ. ONLY FOR WELDING.

MATERIAL A36 STEEL
RIVETS OR BOLTS 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 (WH)
WELDING - AS NOTED

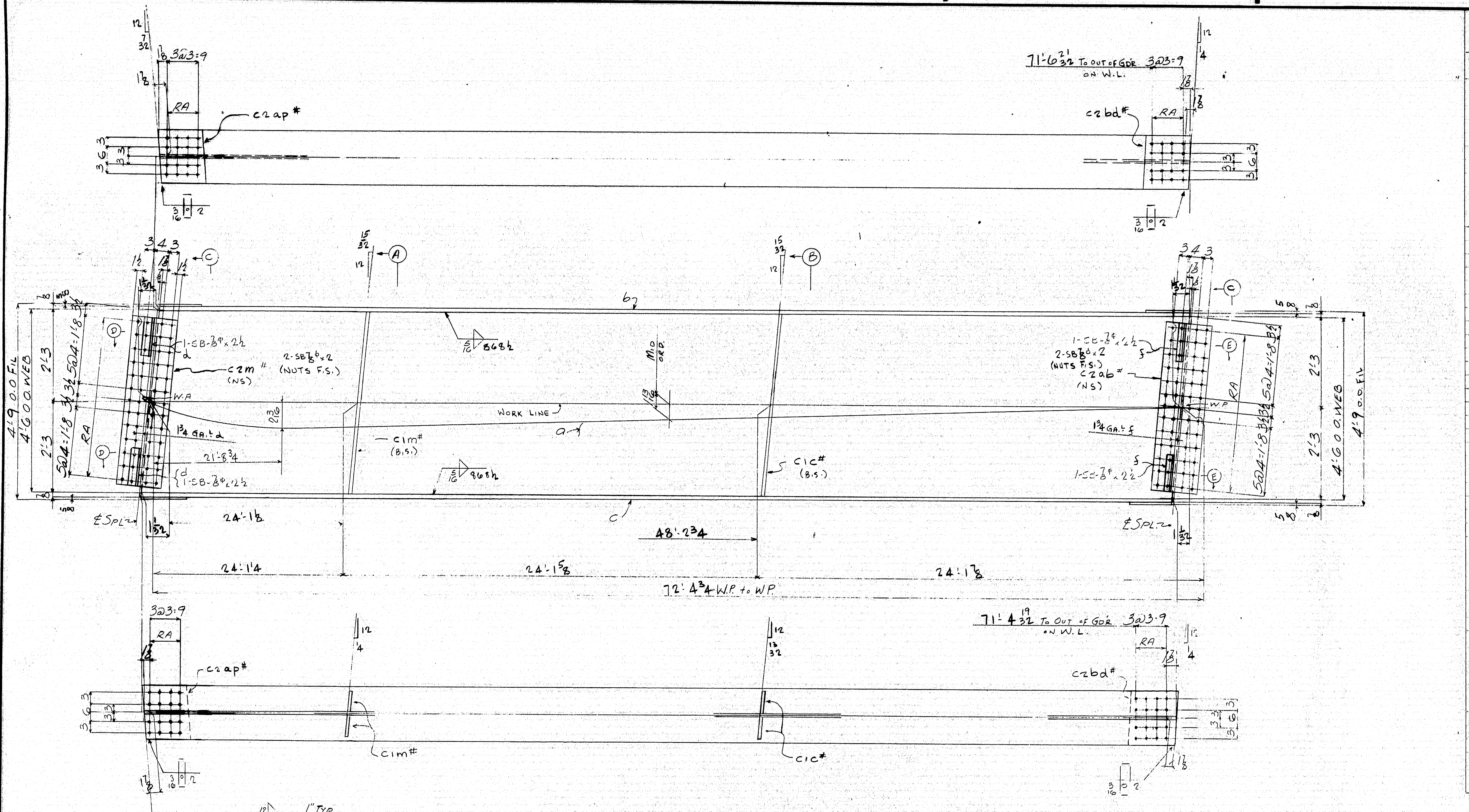
GIRDER G15-14
CUSTOMER MAINE STATE HIGHWAY COMMISSION
PISCATAQUA RIVER BRIDGE
STRUCTURE PROJECT NO. I-95-1(26)NG
CONTR. No. 3 - NEW HAMPSHIRE APP.
STRUCTURAL STEEL
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
POTTSTOWN DRAFTING ROOM
MADE BY RDN DATE 9-9-69
CHECKED BY CE DATE 9-19-69
CONTRACT [illegible]-021

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

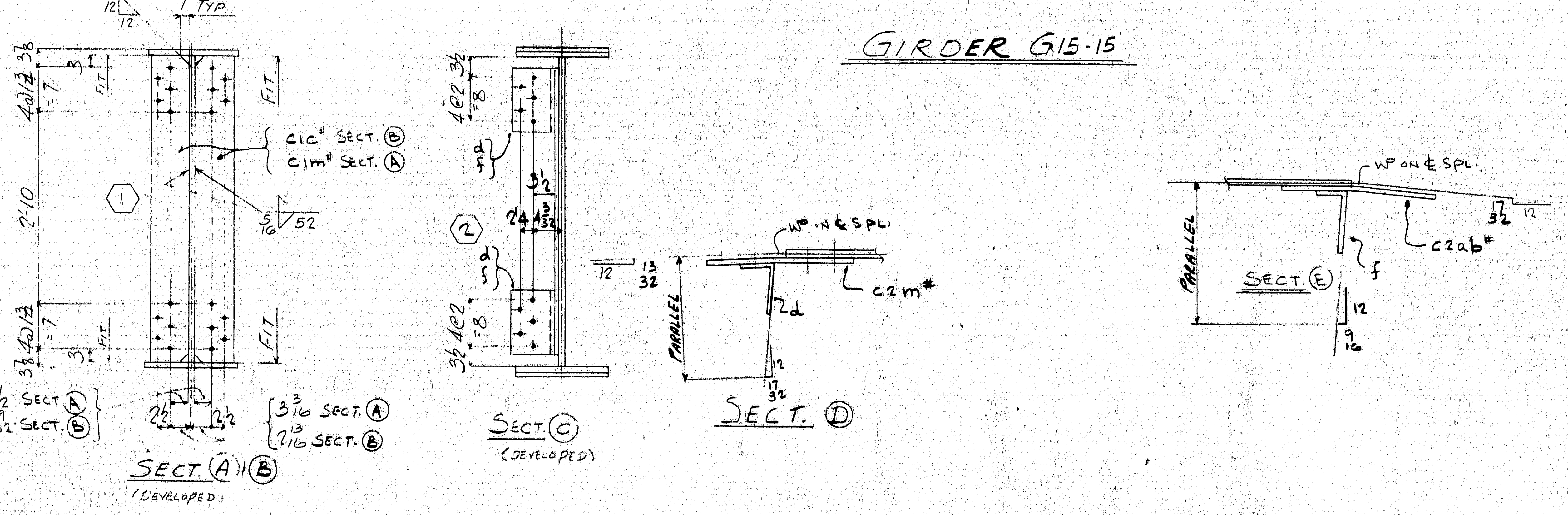
SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

For location of details shown on this sheet refer to diagrams.
E6

107-96



GIRDER G15-15



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 G15-15										
2													
3	a	1	PL	54		7/16	72	6 9/16	57 x 7/16	73	1	8	18
4	b	1	PLU	16		7/8	72	4 7/8		73	0	14	20
5	c	1	PLU	16		7/8	72	4 7/8		73	0	14	20
6	d	2	L	7	3¼	½	0	11	C.F. 7x4x½ BENT	40	0	36	39
7	f	2	L	7	3¼	½	0	11	C.F. 7x4x½ BENT	40	0	36	39
8													
9	c1m#	2	BR	7		½	4	6	F2E	18	4	24	51
10	c1c#	2	BR	7		½	4	6	F2E	18	4	24	51
11	c2ap#	2	PL	16		5/8	1	0 25/32				J	
12	c2m#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
13	c2bd#	2	PL	16		5/8	1	0 27/32				J	
14	c2ab#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
15													
16													
17													
18													
19	FWL	1	WD			5/16	289	6					
20	FWS	1	WD			5/16	34	8					
21	SD	1	WD			3/16	1	4					
22													
23													
24													
25		4	SB	7/8φ			0	2	HH-HN			M	
26		4	SB	7/8φ			0	2½	HH & HN				

INSTALLMENT 15E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G15-15	GIRDER 57 x 16 x 73'-9	

PAY ITEM - 504.711

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

GIRDER G15-15

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

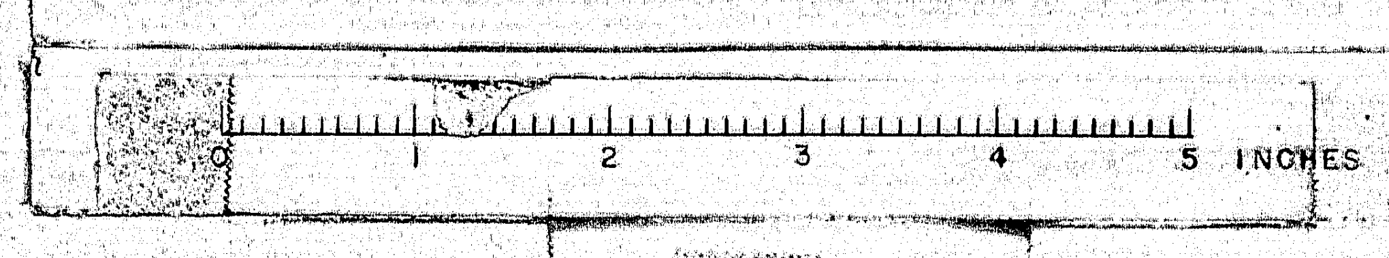
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

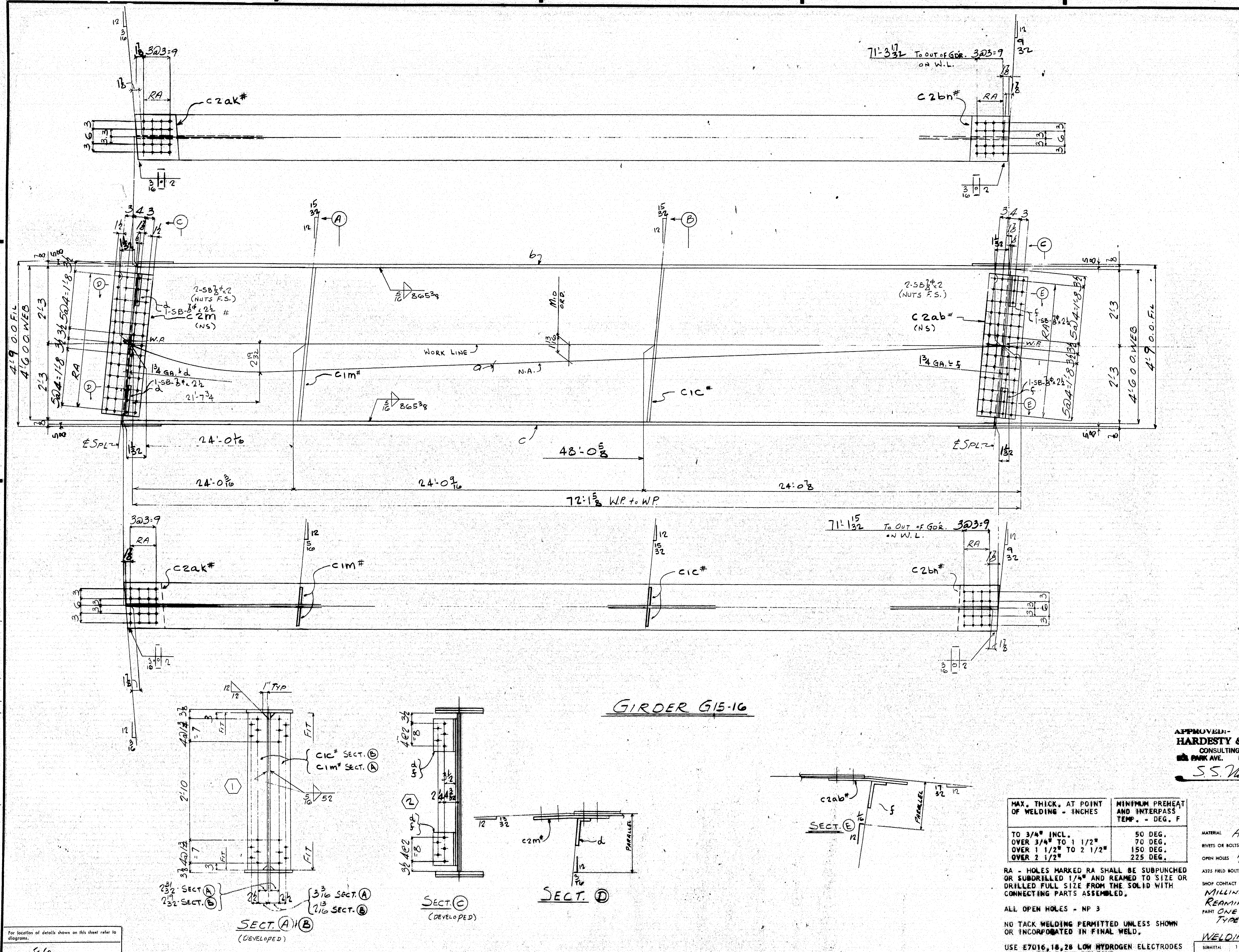
POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY R.D.N DATE 9-10-69 IN CHARGE B.K. BERTOLET
CHECKED BY C DATE 9-19-69 SHOP NO 2
CONTRACT CJG249-021 DRAWING NO. 296

For location of details shown on this sheet refer to diagrams E6

107-97 1 MASTER GDR #1

35455 (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.	MILL ORDER ITEM PAGE	MILL ORDER ITEM LINE
1		1	GIRDER G15-16										
2													
3	a	1	PL	54		7/16	72	3 7/16	57 x 7/16	73	1	8	18
4	b	1	PLU	16		7/8	72	1 1/16		73	0	14	20
5	c	1	PLU	16		7/8	72	1 1/16		73	0	14	20
6	d	2	L	7	3¼	1/2	0	11	C.F. 7x4x1/2 BENT	40	0	36	39
7	f	2	L	7	3¼	1/2	0	11	C.F. 7x4x1/2 BENT	40	0	36	39
8													
9	c1m#	2	BR	7		1/2	4	6	F2E	18	4	24	51
10	c1c#	2	BR	7		1/2	4	6	F2E	18	4	24	51
11	c2bn#	2	PL	16		5/8	1	0 7/8				J	
12	c2ab#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
13	c2ak#	2	PL	16		5/8	1	0 3/4				J	
14	c2m#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
15													
16													
17													
18													
19	FWL	1	WD			5/16	288	5 1/2					
20	FWS	1	WD			5/16	34	8					
21	SD	1	WD			3/16	1	4					
22													
23													
24													
25		4	SB	7/8 ϕ			0	2	HH-HN }			M	
26		4	SB	7/8 ϕ			0	2 1/2	HH & HN }				
27													
28													
29													
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52													
53													
54													
55													

INSTALLMENT 15E

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G15-16	GIRDER (57x16 x 73'-6)	

PAY ITEM - 504.711

APPROVED:-
HARDESTY & HANOVER
CONSULTING ENGINEERS
PARK AVE. NEW YORK 17, N.Y
S. S. Nishimura OCT 15 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 OR BOLTS 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 G15-16

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 RDN DATE 9-11-69 IN CHARGE B.K. BERTOLET
CHECKED BY ¢ DATE 9-19-69 SHOP NO. 2
CONTRACT CJ6249-021 DRAWING NO. 297

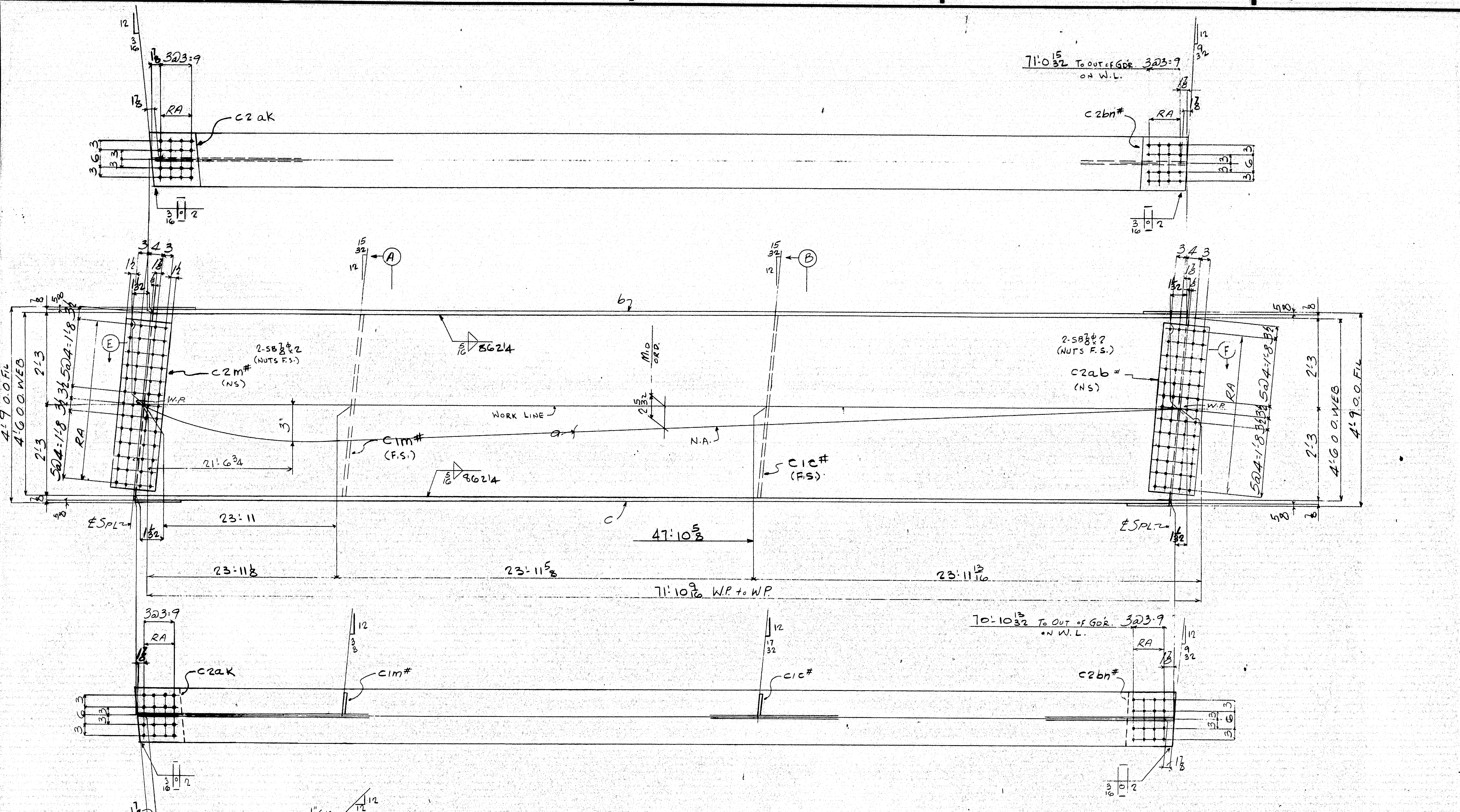
For location of details shown on this sheet refer to diagrams.
E6

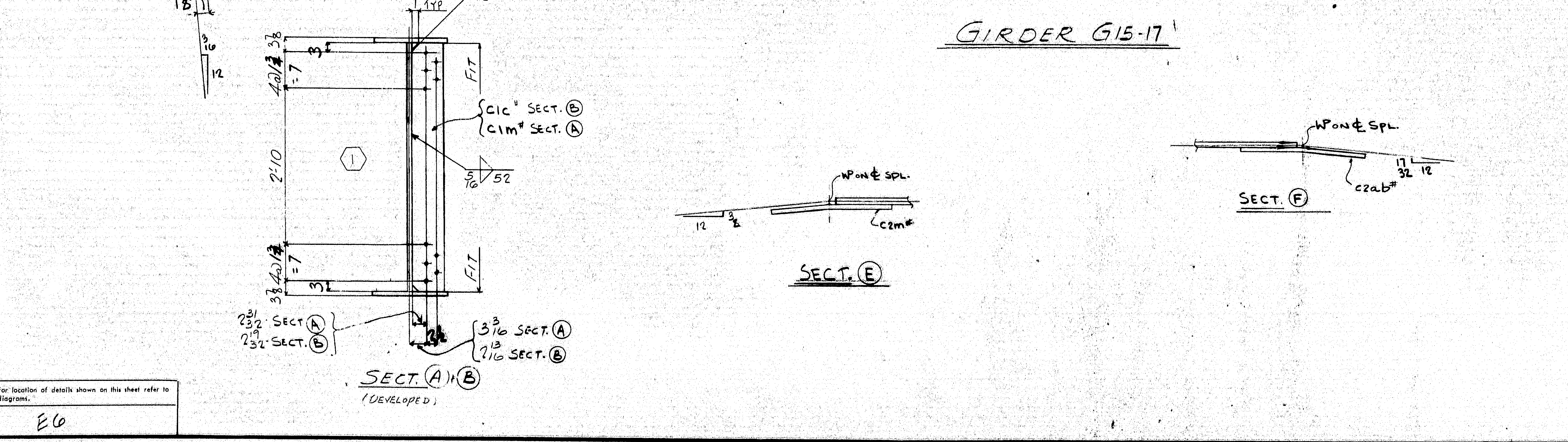
107-98'

MASTER GDR #1

33453 (Rev.C 4-63)

OCT 28 1969





GIRDER G15-17

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 G15-17										
2													
3	a	1	PL	54		7/16	72	0 3/8	57×7/16	73	1	8	18
4	b	1	PLU	16		7/8	71	10 5/8		73	0	14	20
5	c	1	PLU	16		7/8	71	10 5/8		73	0	14	20
6													
7													
8													
9	c1m#	1	BR	7		1/2	4	6	F2E	18	4	24	51
10	c1c#	1	BR	7		1/2	4	6	F2E	18	4	24	51
11	c2ak#	2	PL	16		5/8	1	0 3/4				J	
12	c2m#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
13	c2ab#	1	PLU	13		3/8	4	2	BENT	21	1	24	48
14	c2bn#	2	PL	16		5/8	1	0 7/8				J	
15													
16													
17													
18													
19	FWL	1	WD			5/16	287	5					
20	FWS	1	WD			5/16	17	4					
21	SD	1	WD			3/16	1	4					
22													
23													
24		4	SB	7/8⌀			0	2	HH-HN			M	
25													
26													
27													
28													
29													
30													
31													
32													
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34													
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52													
53													
54													
55													

INSTALLMENT 15E

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G15-17	GIRDER 57×16×72'7	

PAY ITEM - 504.711

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CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S.S. Nishimura OCT 15 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 OR BOLTS NONE
OPEN HOLES 15/16⌀
A325 FIELD BOLTS 7/8⌀
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 G15-17

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 RDN DATE 9-11-69 IN CHARGE B.K. BERTOLET
CHECKED BY E DATE 9-19-69 SHOP NO. 2
CONTRACT CJ6249 021 DRAWING NO. 298

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

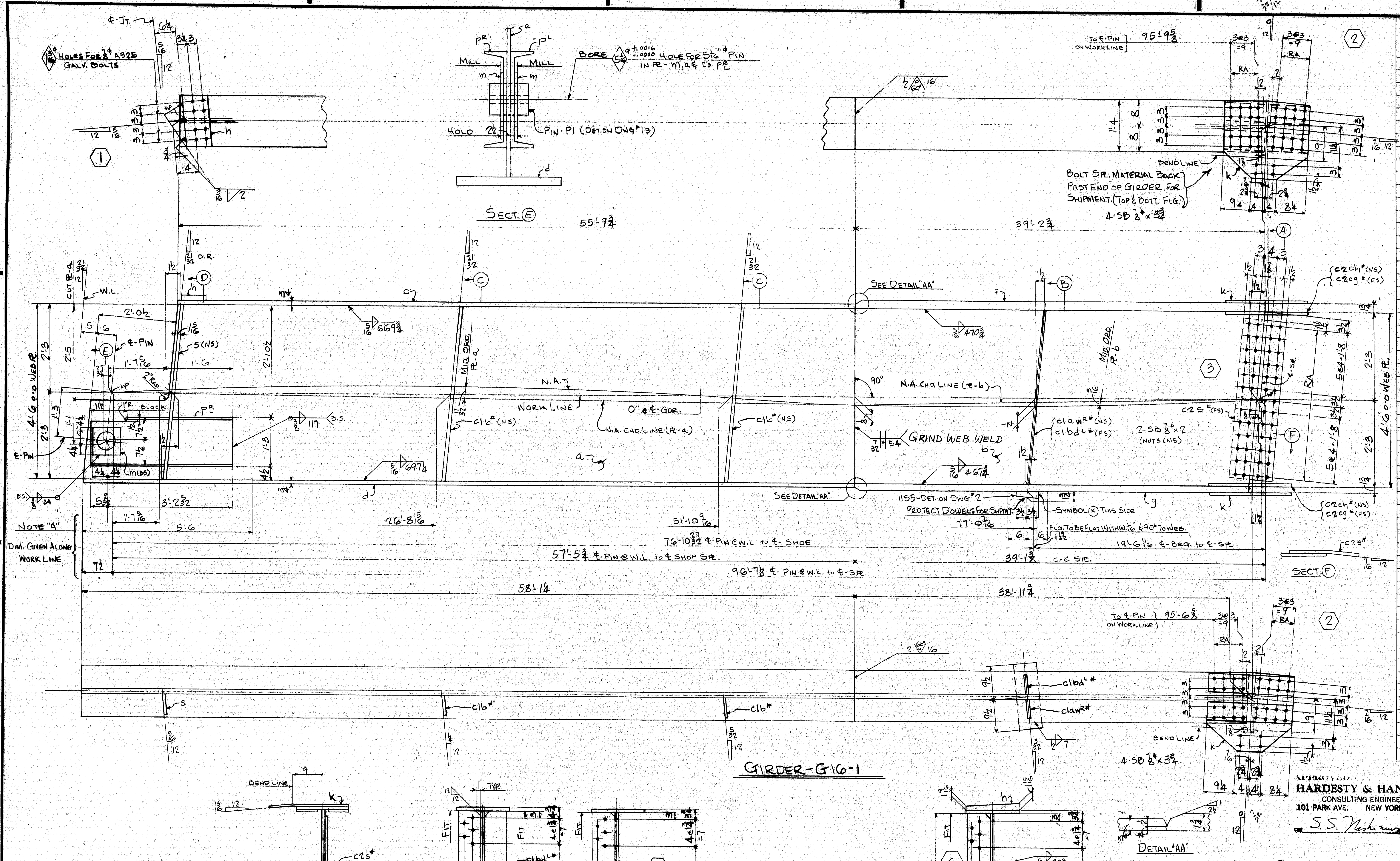
E6

107-99 1

MASTER GDR #1

35453 (Rev. C 4-65)

OCT 28 1969



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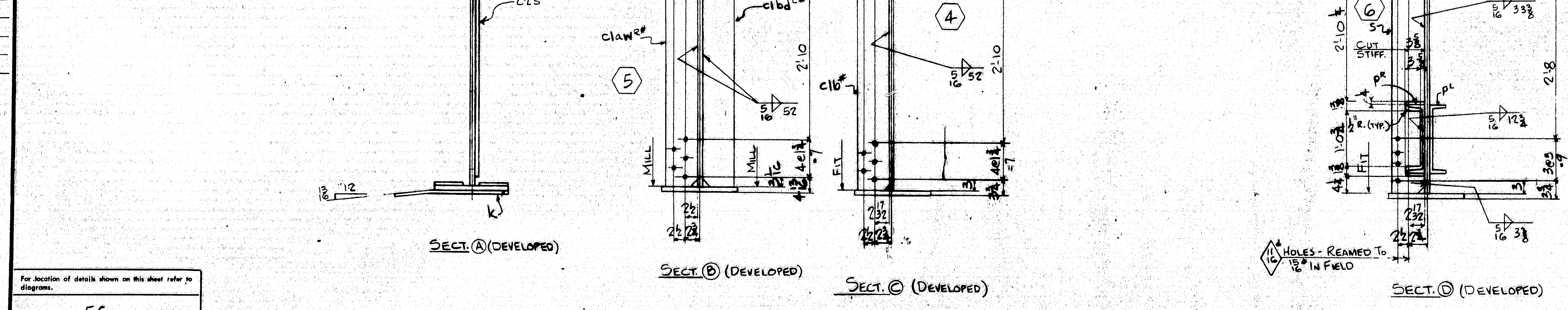
CONSULTING ENGINEERS
101 PARK AVE. NEW YORK 17, N.Y.
S. S. Nishimura OCT 17 1969



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

E6

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 PAINT, 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 (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.

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-G16-1												
2		a	1	PL	54		7/16	58	1 1/4		56 1/2 x 7/16	58	10	2	72
3		b	1	PL	54		1/2	39	2 3/4		56 x 1/2	39	6 1/2	2	74
4		c	1	PLU	16		3/4	55	9 3/4			56	2	4	75
5		d	1	PLU	16		3/4	58	1 1/4			58	6 1/2	4	72
6		f	1	PW	16		1 3/4	39	2 3/4			39	4 1/4	3	70
7		g	1	PLU	16		1 3/4	38	11 3/4			39	4 1/4	3	70
8		h	1	PL	8		(1 15/16 x 1 9/16)	1	4 3/16		CF 2" PL			J	
9		k	2	PL	25 1/2		1/2	1	11 3/4	BENT		22	4	24	45
10		m	2	PL	8 1/2		1/2	0	8 1/2	MIS	C.F. 3/4 PL			J	
11		P^R_L	1/1	C	15	40		3	7 7/16			44	8	24	42
12		s	1	BR	7		1/2	4	6	F2E		18	4	24	51
13															
14			2	SB	7/8φ			0	2	H.H.H.N.				~~M~~	
15															
16															
17															
18															
19															
20	C	1bd L#	1	BR	7 1/2		3/4	4	6 1/16	MIE FIE		18	4	24	49
21	C	1aw R#	1	BR	7 1/2		3/4	4	6 1/16	MIE-FIE		18	4	24	49
22	C	1b#	2	BR	7		1/2	4	6	F2E		18	4	24	51
23	C	2s#	1	PW	13		3/8	4	2	BENT		21	1	24	48
24	C	2cg#	2	BR	6 1/2		1/2	2	1 1/2			19	0	24	50
25	C	2ch#	2	BR	6 1/2		1/2	2	1 1/2			19	0	24	50
26		P1	1	PIN						DET. ON DWG # 13					
27		US5	1	UPPER SHOE						DET. ON DWG. # 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		FW	1	WD			1/2	1	2						
32		FW	1	WD			3/8	25	3						
33		FWS	1	WD			5/16	42	11						
34		FWL	1	WD			5/16	384	3						
35															
36															
37			8	SB	7/8φ			0	3 3/4	H.H.H.N.				~~M~~	
38															
39															
40															
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53															
54															
55															

INST-"16W"

REQUIRED LIST

QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G16-1	GIRDER (25 1/4 x 62 1/4 x 98'-5)	

PAY ITEM-504711

GIRDER

MATERIAL A36 STEEL
[redacted] BOLTS 7/8φ
OPEN HOLES 15/16φ (UN)
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

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
[redacted] PISCATAQUA RIVER BRIDGE
PROJECT NO. I95-1(22)16
CONT. NO. 3-NEW HAMPSHIRE APP.
STRUCTURAL STEEL

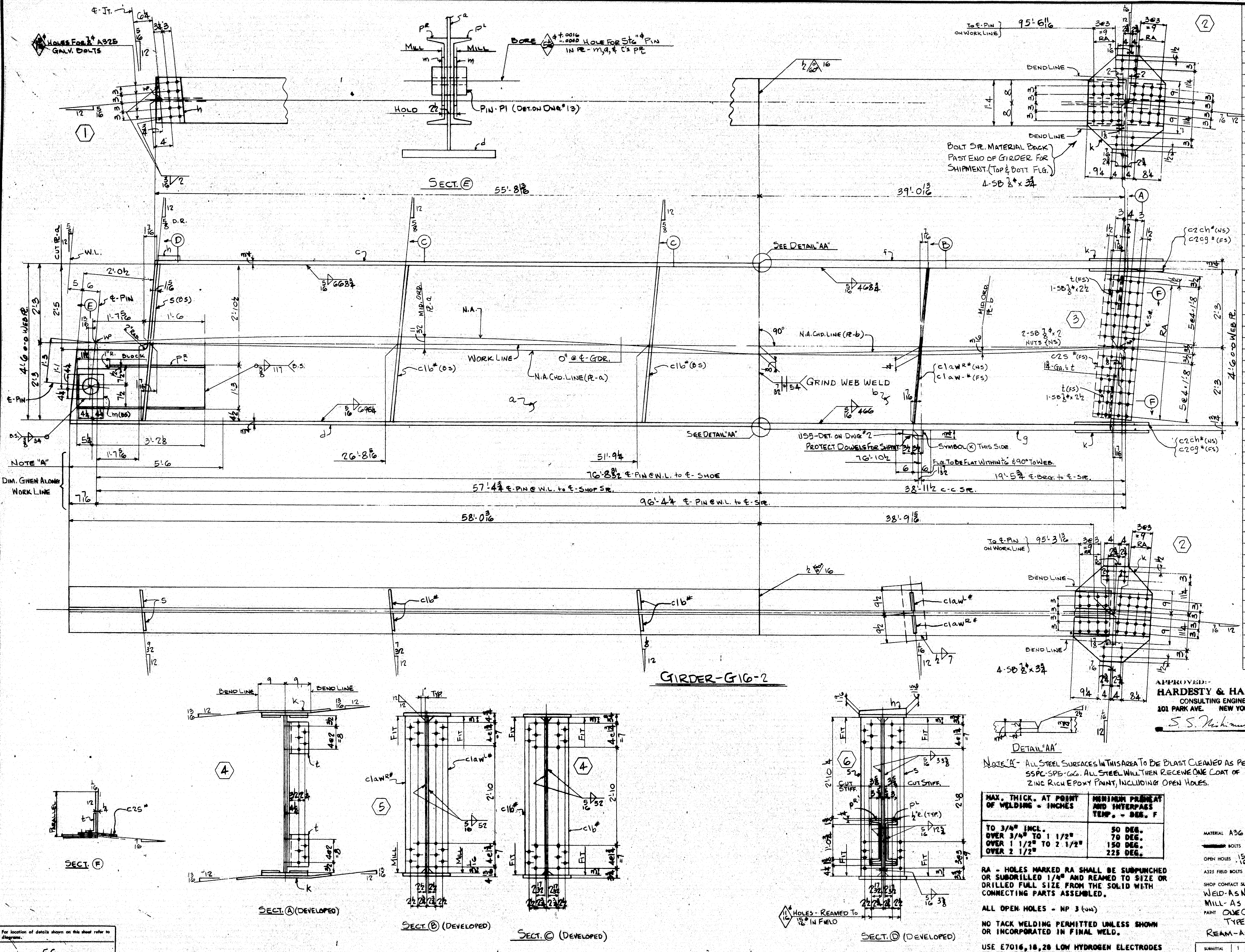
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

POTTSTOWN DRAFTING ROOM POTTSTOWN WORKS
MADE BY RD DATE 8-26-69 IN CHARGE B.K. BERTOLET
CHECKED BY RJ DATE 9/26 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 299

107-100

35453 (Rev. C 4-65)

INCHES 1 2 3 4 5



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 PAINT, INCLUDING OPEN HOLES.

SHOP BILL											MILL ORDER			
LINE		ASSEMBLY MARK	NO.	SHAPE	SECTION SIZE	SECTION SIZE OR POUNDS	SECTION THICK	LENGTH FT.	LENGTH IN.	REMARKS	LENGTH FT.	LENGTH IN.	ITEM PAGE	ITEM LINE
1			ONE - GIRDER - G16 - 2											
2		a	1	PL	54		7/16	58	0 3/16	56½ x 7/16	58	10	2	72
3		b	1	PL	54		½	39	0 13/16	56 x ½	39	6½	2	74
4		c	1	PLU	16		¾	55	8 13/16		56	2	4	75
5		d	1	PLU	16		¾	58	0 3/16		58	6½	4	72
6		f	1	PW	16		1¾	39	0 21/32		39	4¼	3	70
7		g	1	PLU	16		1¾	38	9 31/32		39	4¼	3	70
8		h	1	PL	8		(1 15/16 x 1 9/16)	1	4 3/16	CF 2" PL			J	
9		k	2	PL	25½		½	2	7½	BENT	22	4	24	45
10		m	2	PL	8½		½	0	8½	MIS CF ¾ PL			J	
11		P R/L	1/1	C	15	40		3	7 3/8		44	8	24	42
12		s	2	BR	7		½	4	6	F2E	18	4	24	51
13		t	2	L	7	3¼	½	0	11	BENT CF 7x4x½	40	0	36	39
14														
15			2	SB	7/8 φ			0	2	H.H.H.N.			M	
16			2	SB	7/8 φ			0	2½	↓				
17														
18														
19														
20														
21	C	1aw R/L *	1/1	BR	7½		¾	4	6 1/16	MIE-FIE	18	4	24	49
22	C	1b *	4	BR	7		½	4	6	F2E	18	4	24	51
23	C	2s *	1	PW	13		3/8	4	2	BENT	21	1	24	48
24	C	2cg *	2	BR	6½		½	2	1½		19	0	24	50
25	C	2ch *	2	BR	6½		½	2	1½		19	0	24	50
26		P1	1	PIN						DET. ON DWG. #13				
27		US5	1	UPPER SHOE						DET. ON DWG. #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		FW	1	WD			½	1	2					
32		FW	1	WD			3/8	25	3					
33		FWS	1	WD			5/16	68	5½					
34		FWL	1	WD			5/16	383	4					
35														
36														
37			8	SB	7/8 φ			0	3¾	H.H.H.N.			M	
38														
39														
40														
41														
42														
43														
44														
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53														
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55														

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

INST-"16W"

REQUIRED LIST			
QTY	SHIPPING MARK	DESCRIPTION	REMARKS
ONE	G16-2	GIRDER (31½ x 61¼ x 98'-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 - 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 φ
OPEN HOLES 15/16 φ (UN)
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

GIRDER

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

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

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 RD DATE 8-26-69 IN CHARGE B.K. BERTOLET
CHECKED BY RJ DATE 9/26 SHOP NO. 2
CONTRACT CJ-6249-020 DRAWING NO. 300

For location of details shown on this sheet refer to diagrams.
E6

a	b	c

35453 (Rev.C 4-65)

OCT 20 1969

1 107-101

0 1 2 3 4 5 INCHES