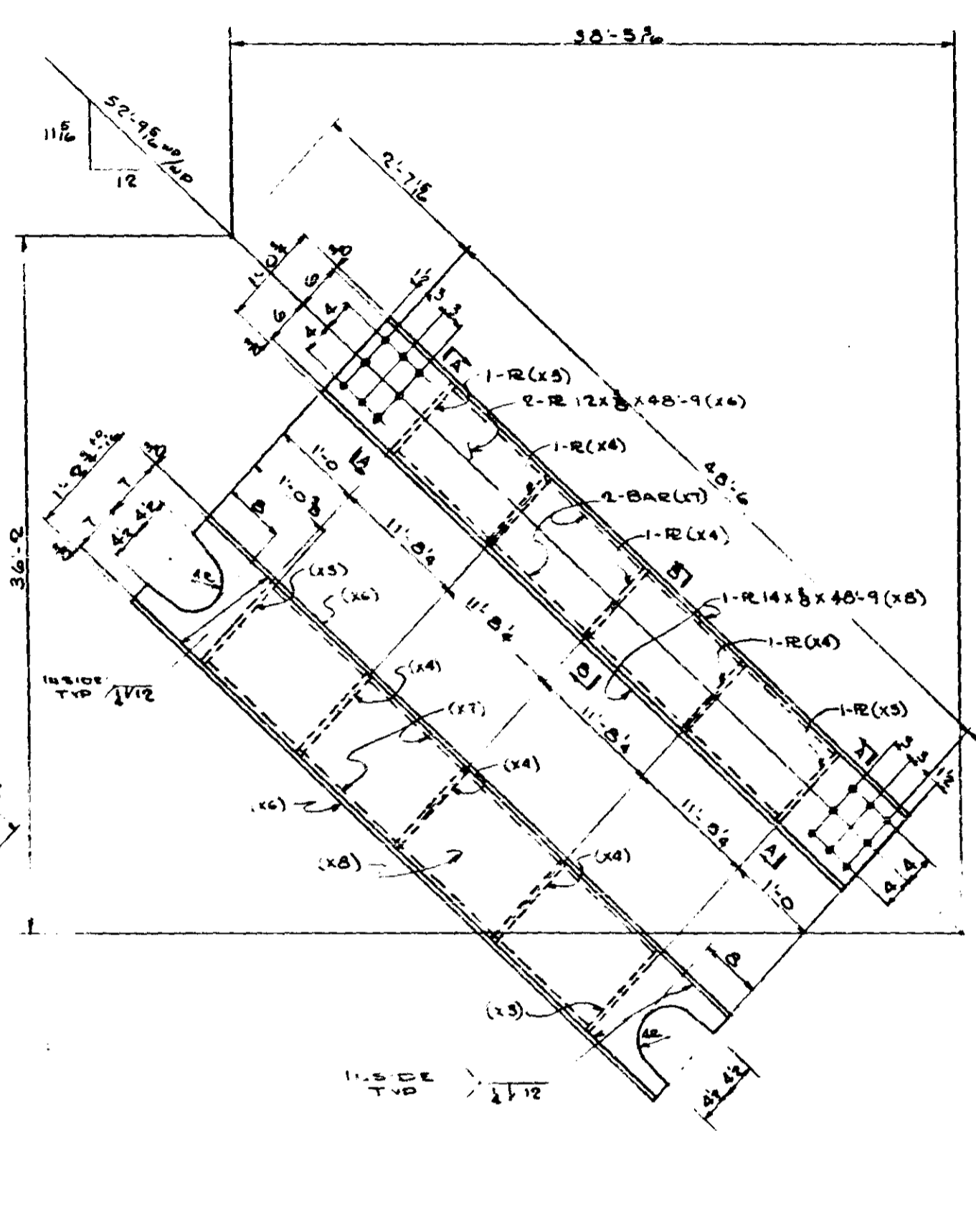
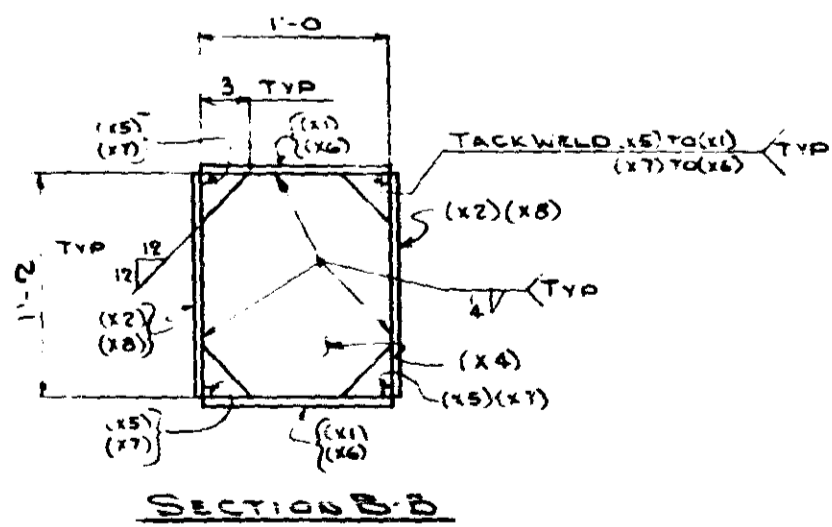
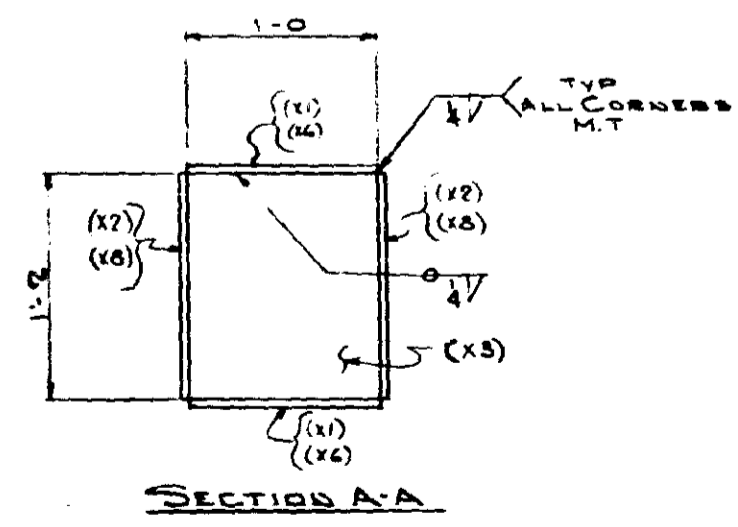


4-BOTTOM CHORD DIAGONALS 1526A



4-BOTTOM CHORD DIAGONALS 1526B



SHOP NOTE:
FOR GEN NOTES SEE GNI
FOR MATL SPECS SEE BILL OF MATL
FOR INSPECTION OF WELDS
SEE SHI. GNI.

MINN. PROJ. NO. IG35W-3(58)112
STATE PROJ. NO. 27B3-9340B (7H35W-394)

HAMMOND FAB.

OPEN HOLES	1/2"	RIVETS & BOLTS	PAIN'T	SEE SHI GNI			
DRAWN BY	MM	DATE	3-7-66	CHECKED BY	FR	DATE	4/5/66
REVISIONS	△	△	△	△			

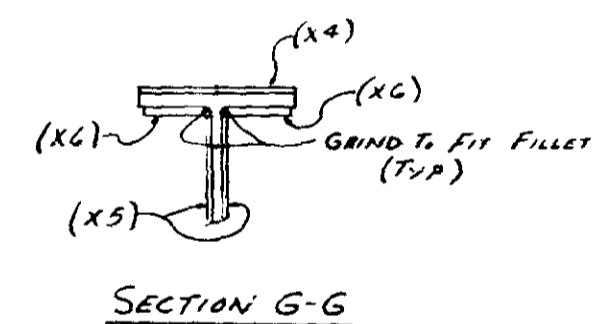
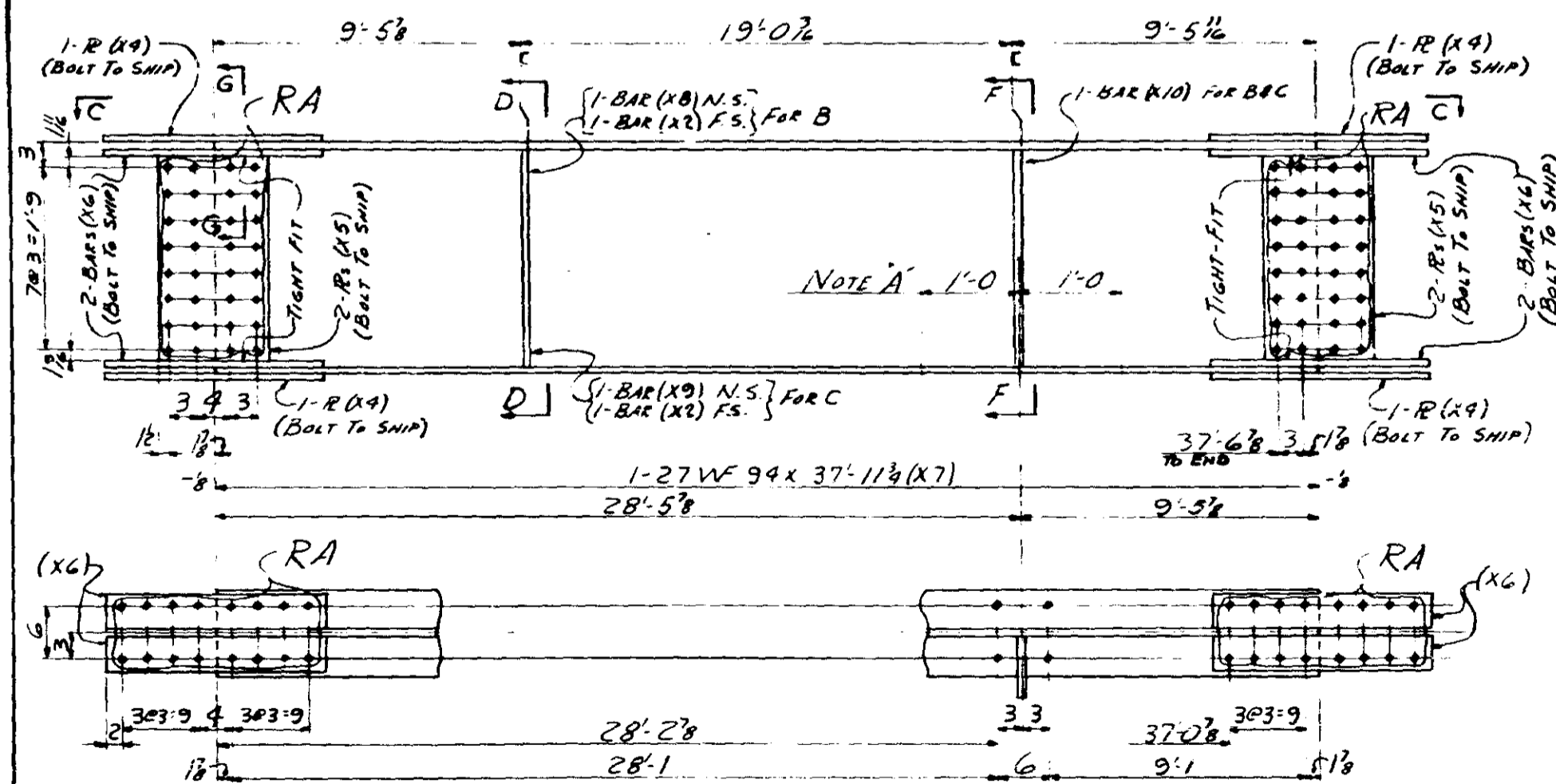
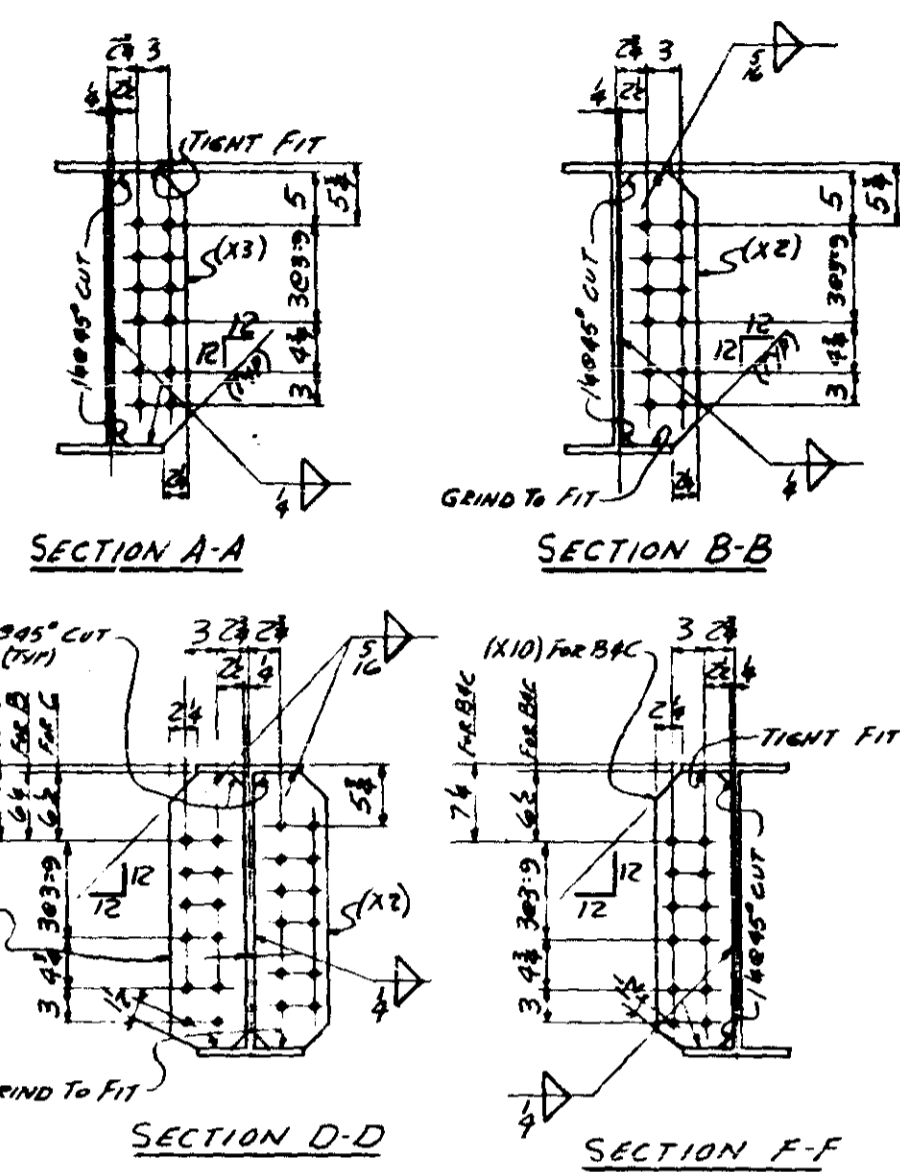
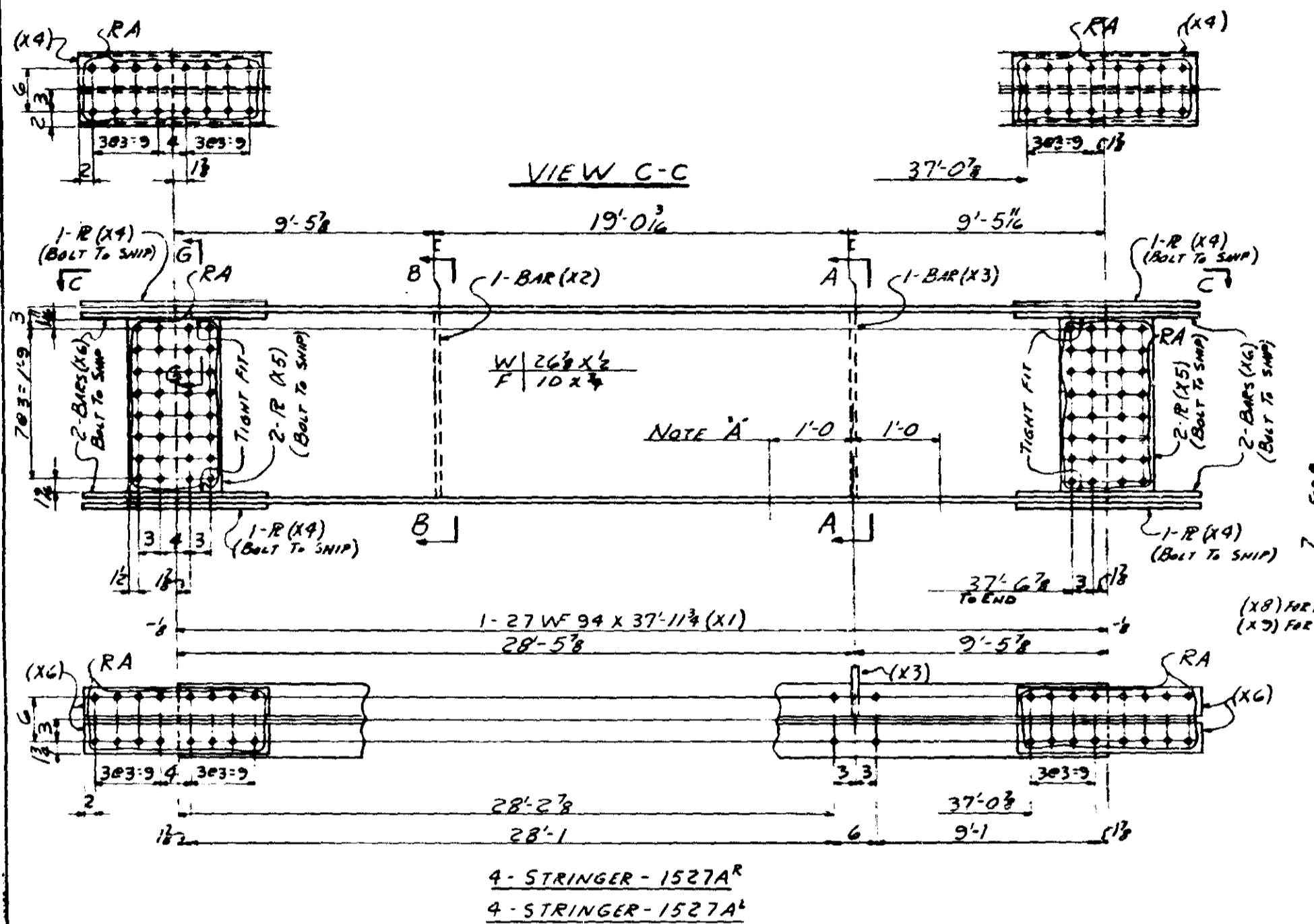
DIV	ITEM	SHIP NO.	NO. REQD.	SHAPE	LENGTH	NO. REQD.	REMARKS	ITEM NO.	TOTAL WEIGHT
15	17	1							
2	2	3	4	BOTTOM CHORD DIAGONALS					
4	8	R 12x8	48	11	X1			59	5987
5	8	R 14x8	48	11	X2			59	6985
6	8	R 12x8	1	2	X3				143
7	12	R 12x8	1	2	X4				214
8	16	BAR 3x8	46	10	X5			59	3506
9	4	F.W. 4	28	0					NC
10									
11									
12									
13									
2	2	14	4	BOTTOM CHORD DIAGONALS					
15	8	R 12x8	48	9	X6			59	5927
16	16	BAR 3x8	46	8	X7				859
17	8	R 14x8	48	9	X8				6962
18	8	R			X3				143
19	12	R			X4			59	214
20	4	F.W. 4	27	6					NC
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BID ITEM 59 = 27384

ALLIED MICRO-FILMED
STRUCTURAL STEEL COMPANY
1212 12TH STREET, HARBOR, MINN. 55404

DETAILS OF: **BOTTOM CHORD LATERAL DIAGONAL**
STRUCTURE: **BRIDGE 159340**
LOCATION: **MINNEAPOLIS, MINNESOTA**
OWNER: **MINNESOTA STATE HWY DEPT.**
CUSTOMER: **MINNESOTA STATE HWY DEPT.**

CONTRACT **3142** FABCO **264** BENT **1528**



NOTE A
 BOTT FLG TO BE 90° TO WEB
 & SUPP FOR DISTANCE INDICATED.

SHOP NOTE:
 FOR GEN NOTES SEE SHI GNI
 FOR MATL SPECS SEE BILL OF MATL

DIV	LINE	QTY	SHAPE	LENGTH	PC. NO.	REMARKS	ISS. NO.	TOTAL WEIGHT
15	17	1						
	2							
	3							
	4							
	5							
2	6	4	STRINGER	(28X40)2				
2	7	4	Do	(28X40)2				
	8	8	27 WF 94	37 1/8 X1				
	9	8	BARS 7 X 1/2	2 1/8 X2				
	10	8	BARS 7 X 1/2	2 1/8 X3				
	11	32	R 10 X 1/2	2 2 X4	U.M.			
	12	32	R 13 X 1/2	2 04 X5	U.M.			
	13	64	BARS 4 X 1/2	2 2 X6	U.M.			
	14	8	1/2 WLD	8 3				
	15	8	1/2 WLD	0 7				
	16	96	380 7/8"					
	17							
	18							
	19							
	20							
	21							
	22							
	23							
	24							
	25							
	26							
	27							
	28							
	29							
	30							
2	31	2	STRINGERS	(28X40)2				
2	32	2	Do	(28X40)2				
	33	4	27 WF 94	37 1/8 X7				
	34	4	BARS	X2				
	35	16	Bs	X4				
	36	16	R	X5				
	37	32	BARS	X6				
	38	2	BARS 7 X 1/2	2 1/8 X8				
	39	2	BARS 7 X 1/2	2 1/8 X9				
	40	4	BARS 7 X 1/2	2 1/8 X10				
	41							
	42	4	1/2 WLD	12 0				
	43	4	1/2 WLD	1 2				
	44	48	380 7/8"					
	45							
	46							
	47							
	48							
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	58		EVID ITEM	59 = 48047				
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	71							

MINN PROJ No. I-16 35W-3(58)112
 STATE PROJ. 2783-9340B (TH 35W-394)

ALLIED STRUCTURAL STEEL COMPANY
 FABRICATORS
 1425 16TH STREET, HAMBURG, MINN. 55126

DETAILS OF: **STRINGERS - P.P. U9-U10 & U10-U18**

STRUCTURE: **BRIDGE No. 9340**

LOCATION: **MINNEAPOLIS, MINNESOTA**

OWNER: **MINNESOTA STATE HWY. DEPT.**

CUSTOMER: **MINNESOTA STATE HWY. DEPT.**

CONTRACT **3142** FARCOD **274** SHEET **1527**

HAMMOND FAB

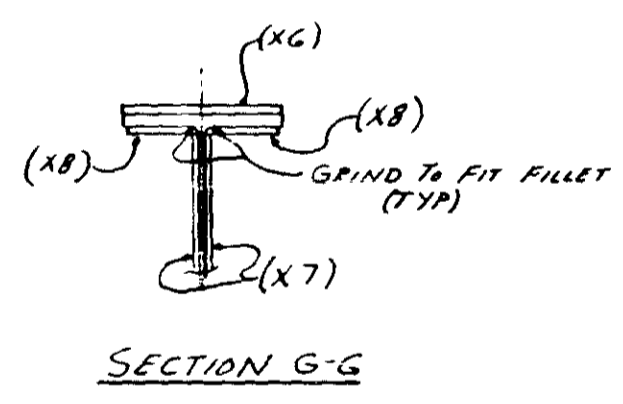
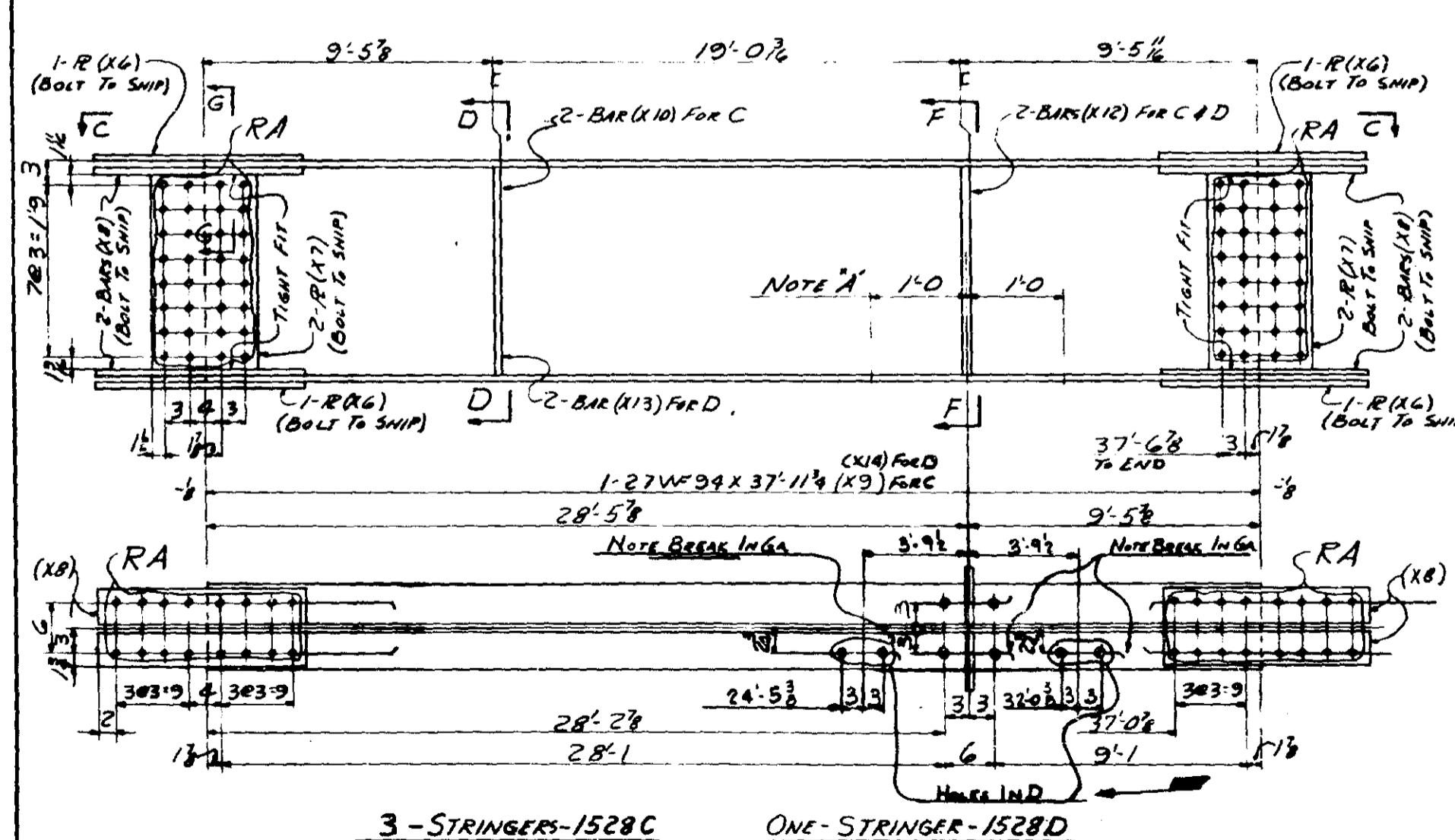
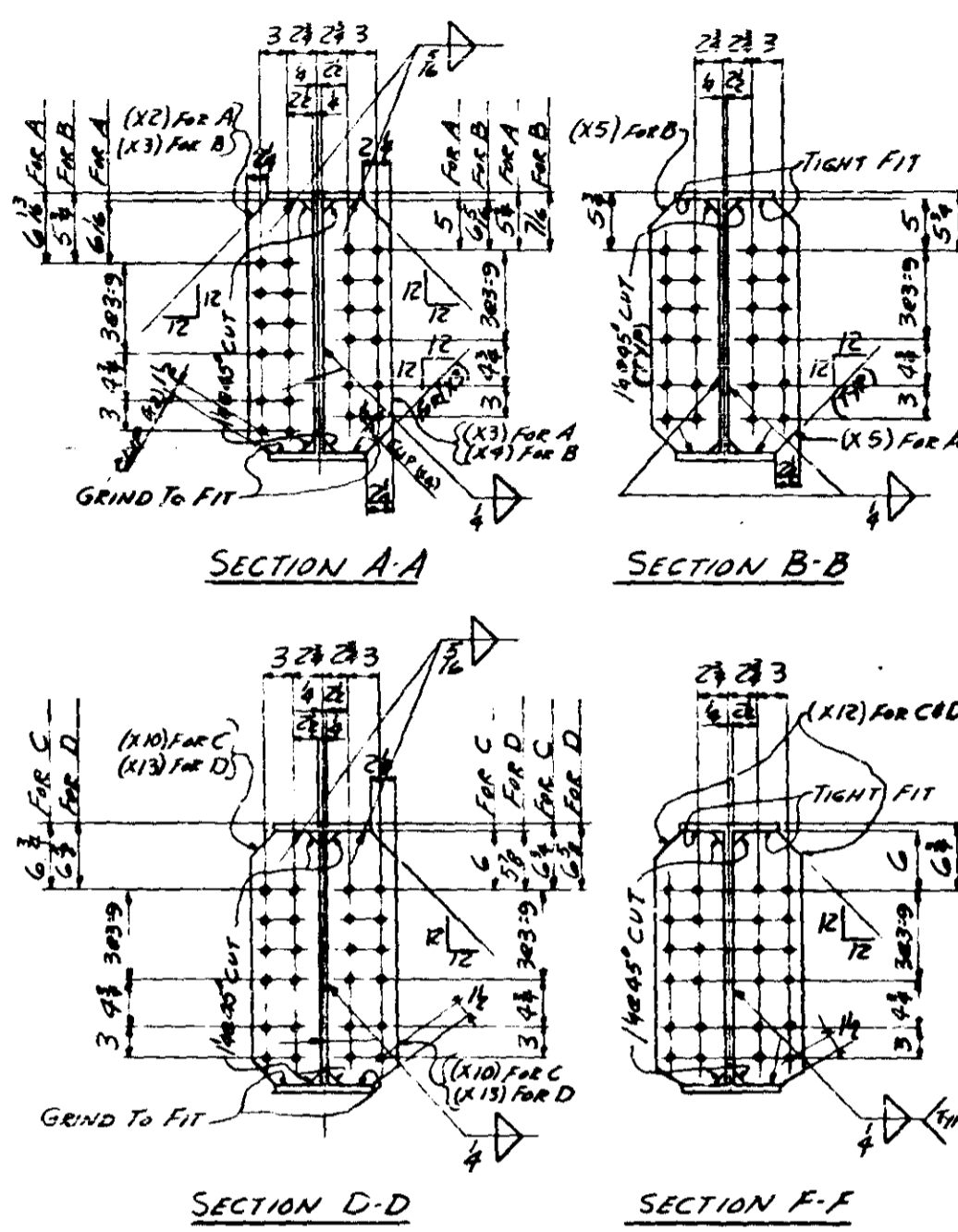
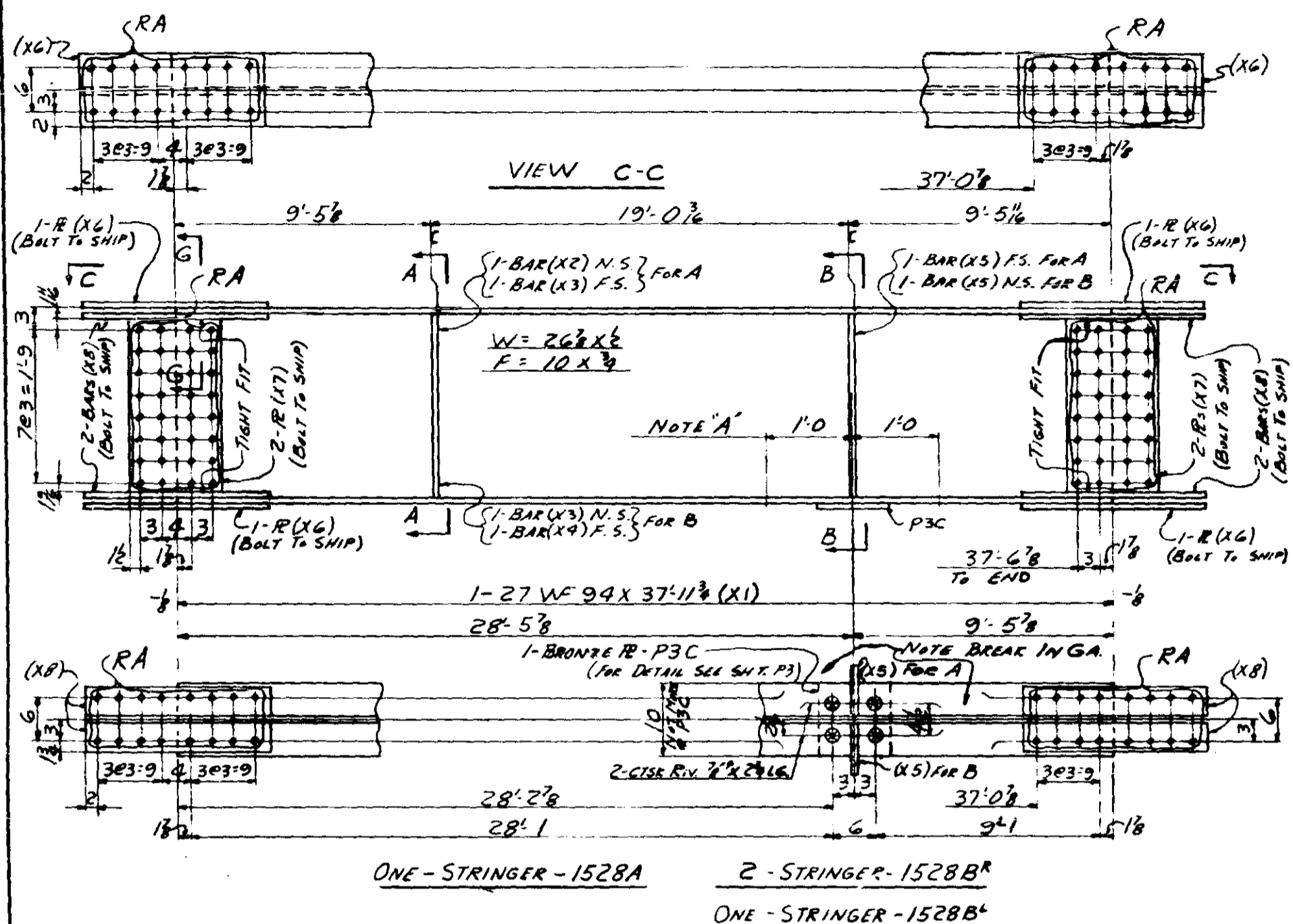
OPEN HOLES 1/2" RIVETS & BOLTS 7/8" PAINT/YES - SEE SHI GNI

DRAWN BY **D.J.** DATE **3-11-66** CHECKED BY **L.O.** DATE **3-21-66**

REVISIONS: **A** 2-17-67 **B** 3-21-67

2- STRINGERS - 1527B AS SHOWN
 2- STRINGERS - 1527C OPP. HAND

REF DWG
 EG 4E7



NOTE A'
 BOLT FLG TO BE 90° TO WEB
 & SUPP FOR DISTANCE INDICATED.

SHOP NOTE
 FOR GEN. NOTES SEE SHI. GNI
 FOR MATL. SPECS SEE BILL OF MATL.

DIV	LINE	SHIP	NO.	SHAPE	LENGTH	PC	REMARKS	ITEM	TOTAL	
15/17	1	MR	REQ			WT		NO	WEIGHT	
	2									
	3									
	4									
	5									
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	9									
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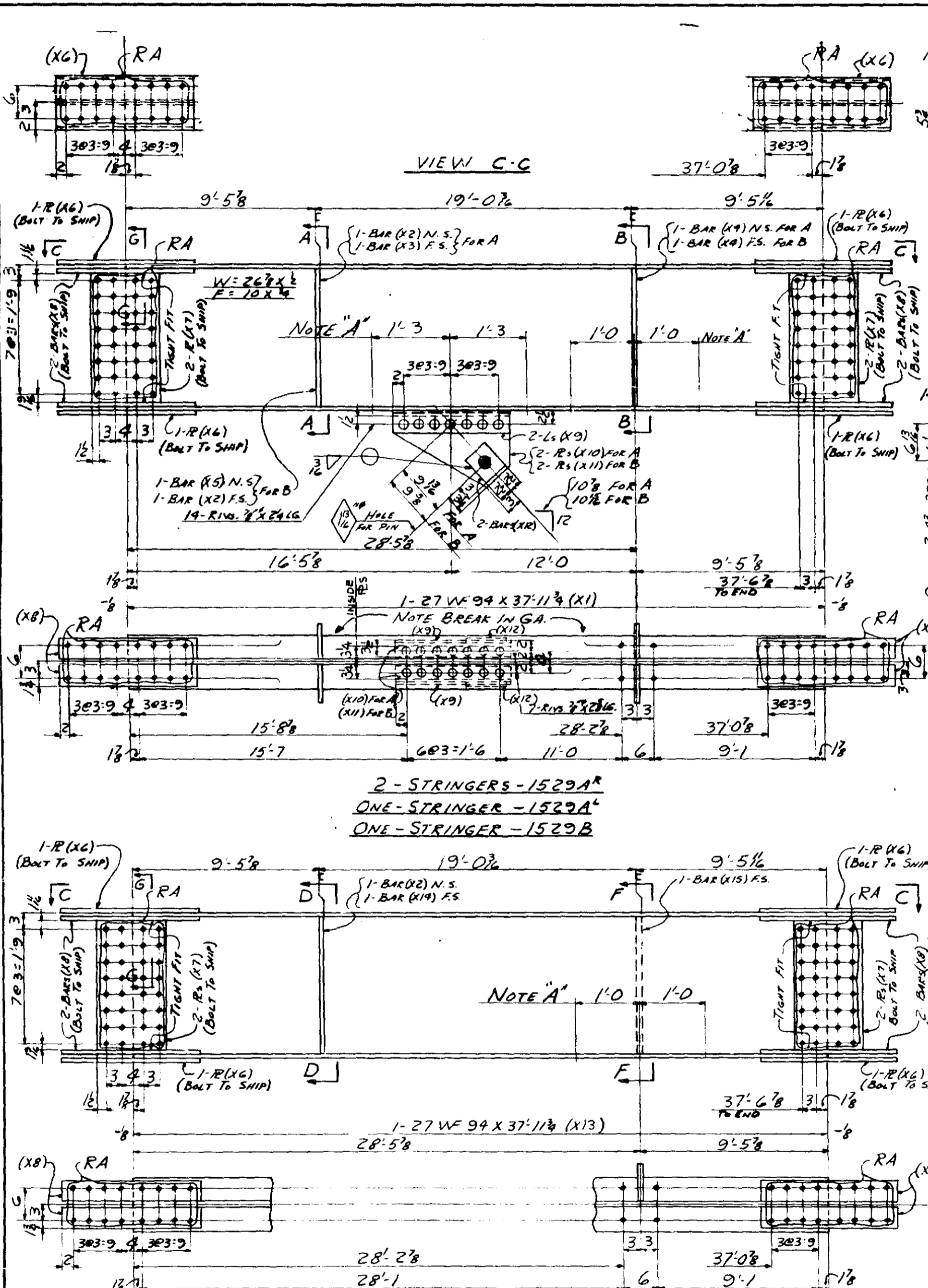
MINN. PROJ. No. T-1635W-3 (58) 112
 STATE PROJ. 2783-9340B (TH35W-394)

ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS, FABRICATORS, Erectors
 1425-1426 STREET, BARRINGTON, ILLINOIS, U.S.A.

DETAILS OF **STRINGERS - PP. U9-V10 & V13 & V14**
 STRUCTURE **BRIDGE No. 9340**
 LOCATION **MINNEAPOLIS, MINNESOTA**
 OWNER **MINNESOTA STATE HWY. DEPT.**
 CUSTOMER **MINNESOTA STATE HWY. DEPT.**

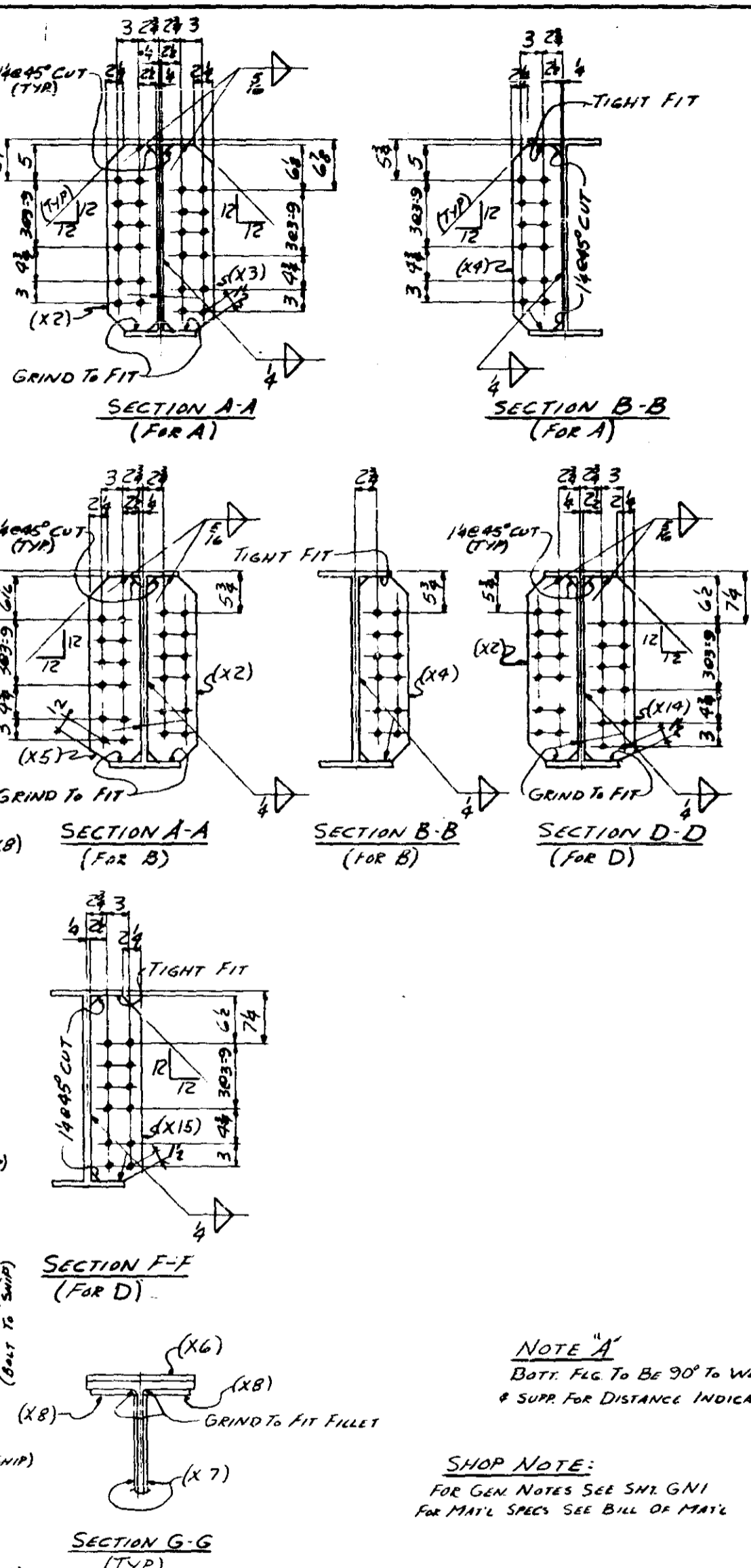
HAMMOND FAB
 OPEN HOLES **1/2"** RIVETS & BOLTS **3/8"** PAINT **YES - SEE SHI. GNI**
 DRAWN BY **D.J.** DATE **3-18-66** CHECKED BY **L.B.** DATE **3-21-66**

REF DWG **EL6 E7** REVISIONS **△ △ △ △** CONTRACT **3142** FABNO **274** SHEET **15C**



2 - STRINGERS - 1529A^R
 ONE - STRINGER - 1529A^C
 ONE - STRINGER - 1529B

2 - STRINGERS - 1529D^R
 2 - STRINGERS - 1529D^C



NOTE "A"
 BOT. FLG. TO BE 90° TO WEB
 & SUPP. FOR DISTANCE INDICATED

SHOP NOTE:
 FOR GEN. NOTES SEE SHI. G/1
 FOR MAIL SPEC. SEE BILL OF MAIL

MINN. PROJ. NO. IIG 35W-3 (58) 112
 STATE PROJ. 27B3-9340B (TH 35W-399)

HAMMOND FAB

OPEN HOLES 1/2" MIN. RIVETS & BOLTS 7/8" PAINT YES SEE SHI. G/1
 DRAWN BY D.J. DATE 3/15/66 CHECKED BY L.O. DATE 3/21/66

REF DWG. EG & E7

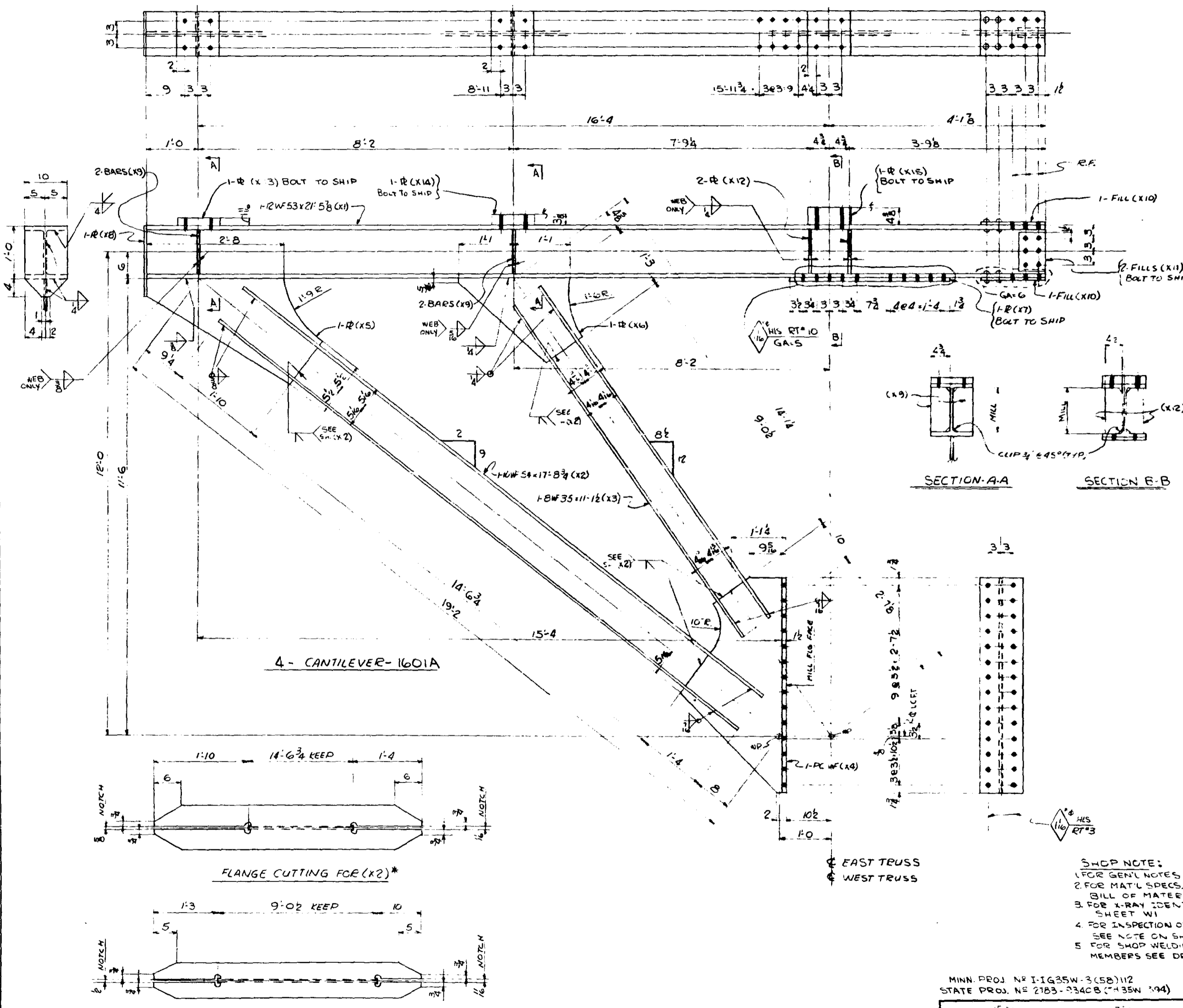
DIV	NO.	SHIP NO.	NO. HEAD	SHAPE	LENGTH	PC. NO.	REMARKS	ITEM NO.	TOTAL WEIGHT
15/17	1								
	2								
	3								
	4								
	5								
11	5	1529A ^R	2	STRINGERS (28A 40' 2)					
1	7	1529A ^C	2	Do (28A 40' 2)					
1	8	1529B	2	Do (28A 40' 2)					
	9								
10	4	27 WF 94	37	11/8 X1	590	59	14280	3306	
11	4	BARS 7x3/8	2	1/2 X2 3/2	590	59	75	3306	
12	3	BARS 7x3/8	2	1/2 X3 FOR A	590	59	57	3306	
13	4	BARS 7x3/8	2	1/2 X4 FOR B	590	59	75	3306	
14	1	BARS 7x3/8	2	1/2 X5 FOR B	590	59	19	3306	
15	16	R 10x3/8	2	2 X6 U.M.	590	59	5/6	3306	
16	16	R 13x3/8	2	2 X7 U.M.	590	59	4/7	3306	
17	32	BARS 4x3/8	2	2 X8 U.M.	590	59	5/7	3306	
18	8	L 4x3 1/2 x 3/8	1	10 X9	700	59	1/33	3306	
19	6	R 13x3/8	1	10 X10 FOR A	700	59	1/86	3306	
20	2	R 13x3/8	1	10 X11 FOR B	700	59	1/61	3306	
21	8	BARS 5x3/8	0	5/8 X12	700	59	2/0	3306	
22	4	1/2 WLD	3	7					
23	4	1/2 WLD	12	1					
24	4	1/2 WLD	1	2					
25	112	Riv. 7/8"							
26	98	SBO 7/8"							
27									
28									
29									
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31									
32									
33									
34									
35	2	1529A ^R	2	STRINGERS (28A 40' 2)					
2	36	1529A ^C	2	Do (28A 40' 2)					
37	4	27 WF 94	37	11/8 X13	590	59	14280	3306	
38	4	BARS 7x3/8	2	1/2 X14	590	59	75	3306	
39	16	R	2	X16	590	59	5/6	3306	
40	16	R	2	X17	590	59	4/7	3306	
41	32	BARS	2	X18	590	59	5/7	3306	
42	4	BARS 7x3/8	2	1/2 X19	590	59	75	3306	
43	4	BARS 7x3/8	2	1/2 X20	590	59	75	3306	
44									
45	4	1/2 WLD	12	1					
46	4	1/2 WLD	1	2					
47	98	SBO 7/8"							
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ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS, FABRICATORS, ERECTORS
 1004 SOUTH STREET, HANNING, ILLINOIS 62208

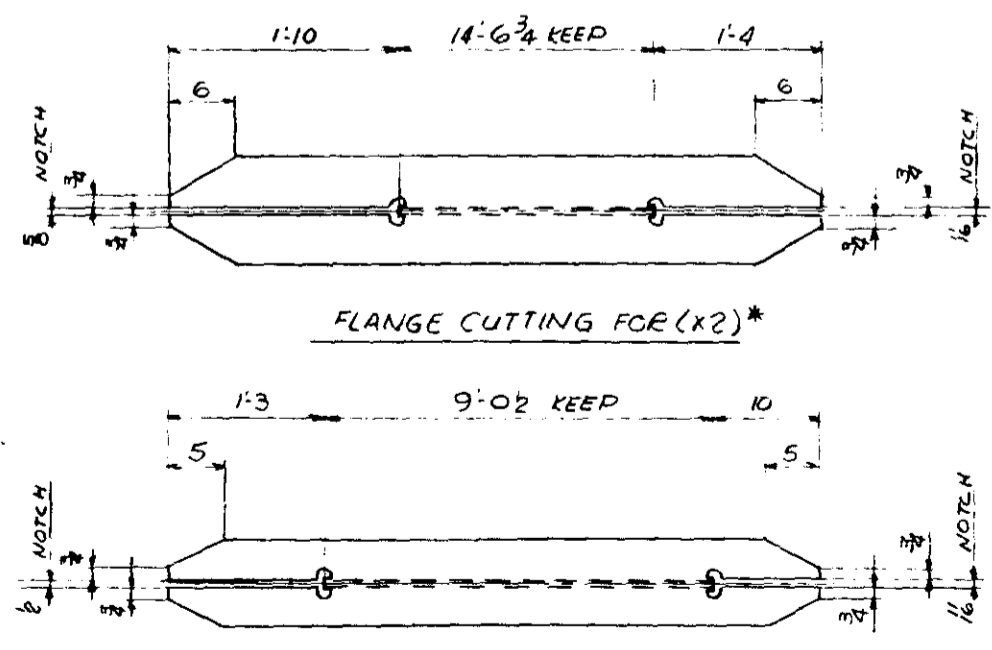
DETAILS OF STRINGERS - P.P. U9-U10 & U19-U18
 STRUCTURE BRIDGE No. 9340
 LOCATION MINNEAPOLIS, MINNESOTA
 OWNER MINNESOTA STATE HWY. DEPT.
 CUSTOMER MINNESOTA STATE HWY. DEPT.

CONTRACT 3/42 FABCOD 274 SHEET 1529

DIVISION	NO	SHAPE	LENGTH	PC NO	REMARKS	ITEM NO	QTY	TOTAL WEIGHT	MND SPCS
	1								
	2								
	3								
	4								
1601A	4	CANTILEVER (1601A 2146)							
	5								
	6								
	7								
	8								
	9	4	12 WF 53	21 5 1/2	X1			455	63306
	10	4	10 WF 54	17 0 3/4	X2			382	9
	11	4	8 WF 35	11 1 1/2	X3			153	9
	12	4	R 30 WF 108	4 1	X4	M. FLG.		176	9
	13	4	R 23 1/2	3 1/2	X5			52	9
	14	4	R 19 1/2	2 4 1/2	X6			22	9
	15	4	R 10 1/2	3 5 1/2	X7	UM		25	3
	16	4	R 10 1/2	1 4	X8			6	8
	17	16	R 4 1/2	0 10 1/2	X9	MZE		11	2
	18	8	FILL 10 1/2	1 3	X10			14	9
	19	8	FILL 6 1/2	0 9	X11			15	
	20	16	R 4 1/2	0 10 1/2	X12	MZE		11	
	21	4	R 10 1/2	0 10	X13			17	
	22	4	R 10 1/2	0 10	X14	FKS		36	B
	23	4	R 10 1/2	0 10	X15	FKS		51	0
	24								
	25								
	26								
	27								
	28								
	29								
	30								
	31								
	32								
	33								
	34								
	35								
	36								
	37	4	4 WLD	24 7					NC
	38	4	3/8 WLD	3 6					
	39	4	1/2 WLD	25 0					
	40	4	7/8 WLD	17 4					
	41	4	1 WLD	0 5 1/2					
	42	32	6 2 1/2						
	43	48	5/8						
	44								
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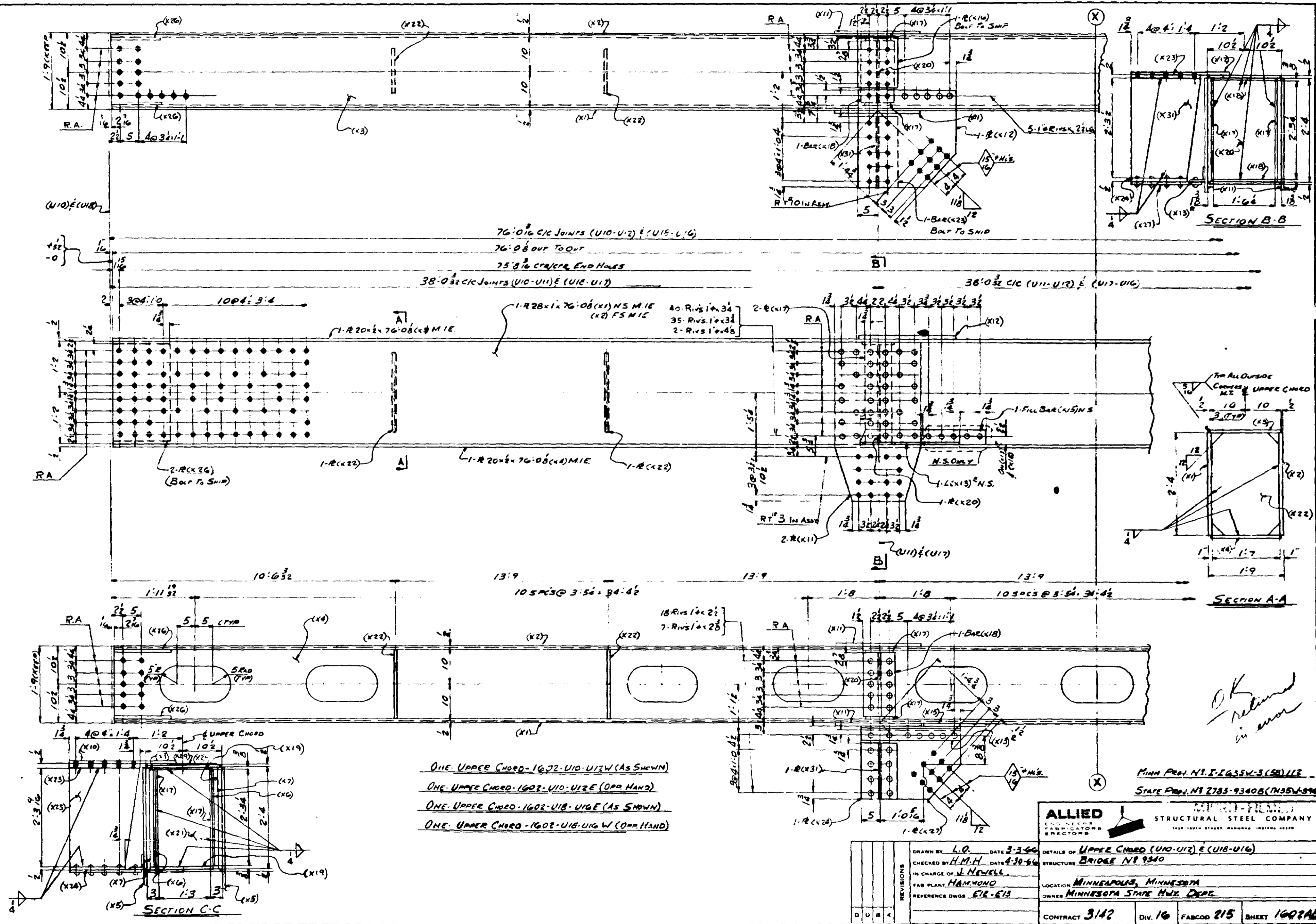
8 SHOP RW	
NO	LGTH
32	2 1/2



* SEE SHT X1 & X2 FOR BEVEL CUTS FOR WELDING

SHOP NOTE:
 1 FOR GEN'L NOTES SEE GNI
 2 FOR MAT'L SPECS. SEE BILL OF MATERIAL
 3 FOR X-RAY IDENT. SEE SHEET W1
 4 FOR INSPECTION OF WELDS SEE NOTE ON SH. GNI
 5 FOR SHOP WELDING SEQ OF WEB MEMBERS SEE DRAWG (X1)

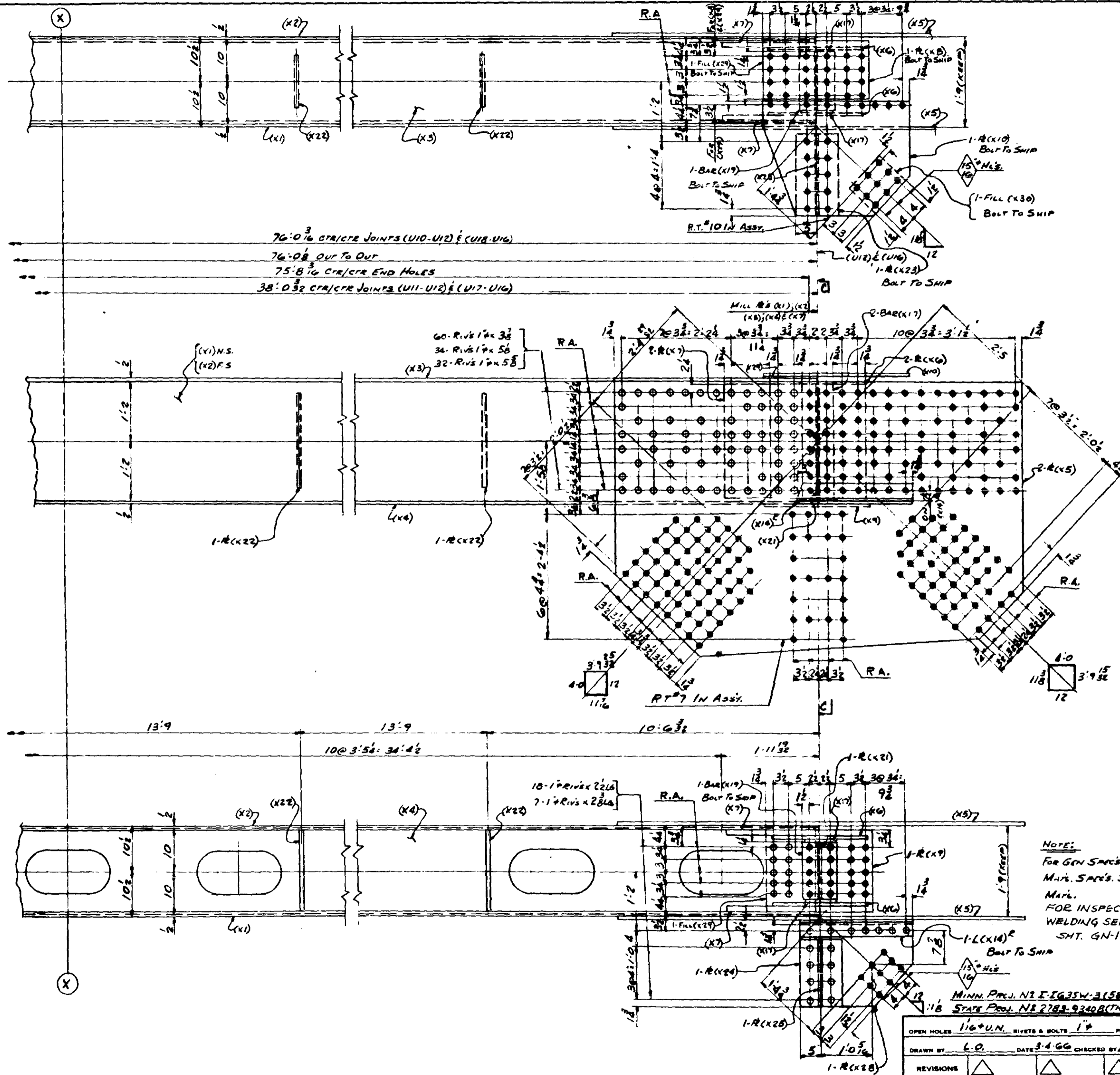
MINN. PROJ. NO. I-1635W-3 (5B) 112	DIVISION 1601B	DETAILS OF	CANTILEVER @ U11 & U17
STATE PROJ. NO. 2183-234CB (1-35W '94)	QUINTAN FAD	STRUCTURE	BRIDGE NE 9340
		LOCATION	MINNEAPOLIS, MINNESOTA
		OWNER	MINNESOTA STATE HWY. DEPT.
		CUSTOMER	MINNESOTA STATE HWY. DEPT.
REF E12 & E13	REVISIONS	CONTRACT	3142
		FABCOD	244
		SHEET	1601



- ONE UPPER CHORD - 1602-U10-U12W (AS SHOWN)
- ONE UPPER CHORD - 1602-U10-U12E (OPP HAND)
- ONE UPPER CHORD - 1602-U18-U16E (AS SHOWN)
- ONE UPPER CHORD - 1602-U18-U16W (OPP HAND)

NO.	DATE	DESCRIPTION

ALLIED ENGINEERS FABRICATORS & STRUCTURERS		STRUCTURAL STEEL COMPANY <small>1125 10TH STREET, MINNEAPOLIS, MINN. 55403</small>	
DRAWN BY: L.O. DATE: 3-3-60 CHECKED BY: H.M.H. DATE: 4-30-60 IN CHARGE OF: J. NEWELL FAB PLANT: HAMMOND REFERENCE DWGS: E18-E13		DETAILS OF: UPPER CHORD (U10-U12) & (U18-U16) STRUCTURE: BRIDGE NO. 9340 LOCATION: MINNEAPOLIS, MINNESOTA OWNER: MINNESOTA STATE HWY. DEPT.	
CONTRACT: 3142 DIV: 16 FAB CODE: 215		SHEET: 1602AB	



Div's	SHIP	NO	SHAPE	LENGTH	PC	REMARKS	ITEM	TOTAL	WGT
16 18	NR	REGD			NR		NO	WT	WT
1	2	ONE	UPPER CHORD - U10-U12 W						
1	3	ONE	UPPER CHORD - U10-U12 E						
1	4	ONE	UPPER CHORD - U18-U16 W						
1	5	ONE	UPPER CHORD - U18-U16 E						
6									
7	4	R 28x1	76.00 X1	M.I.E.	2802	59	28915	3306	
8	4	R 28x1	76.00 X2	M.I.E.	3001	59	28915	3306	
9	4	R 20x2	76.00 X3	M.I.E.	2803	59	10337	3306	
10	4	R 20x2	76.00 X4	M.I.E.	2804	59	10337	3306	
11	8	R 6x1	0.12 X5		2805	60	19199	3307	
12	8	R 22x2	1.10 X6		2806	61	701	3310	
13	8	R 22x2	1.10 X7	M.I.E.	2807	59	1578	3306	
14	4	R 19x2	2.12 X8		2808	61	154	3310	
15	4	R 19x2	2.12 X9		2809	61	206	3310	
16	4	R 22x2	2.11 X10		2810	59	905	3306	
17	8	R 22x2	3.12 X11		2811	59	1132	3306	
18	4	R 22x2	2.32 X12		2812	59	313	3306	
19	4	R 22x2	2.32 X13		2813	59	87	3306	
20	4	R 22x2	2.32 X14		2814	59	70	3306	
21	4	FILL BAR	1.52 X15		2815	59	90	3306	
22	4	R 10x2	1.24 X16		2816	59	61	3306	
23	16	BAR 72	2.4 X17		2817	59	357	3306	
24	8	BAR 8x2	1.64 X18		2818	59	124	3306	
25	8	BAR 8x2	1.3 X19		2819	59	102	3306	
26	4	R 18x2	2.32 X20		2820	59	282	3306	
27	4	R 15x2	2.32 X21		2821	59	232	3306	
28	16	R 17x2	2.4 X22		2822	59	905	3306	
29	8	R 10x2	1.72 X23		2823	59	221	3306	
30	8	R 10x2	1.32 X24		2824	59	176	3306	
31	4	R 19x2	2.32 X25		2825	59	205	3306	
32	8	R 22x2	1.32 X26		2826	59	418	3306	
33	4	R 20x2	2.24 X27		2827	59	232	3306	
34	4	R 17x2	2.32 X28		2828	59	229	3306	
35	8	R 12x2	1.72 X29	BRASS	2829		38		
36	8	R 9x2	0.11 X30	BRASS	2830		8		
37	100	R 12x2	1.9				16		
38	4	R 10x2	3.08						
39	4	R 10x2	5.9						
40	64	R 12x2	1.9						
41	4	R 19x2	2.32 X31		2831	59	205	3306	
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NOTE:
 For GEN SPEC'S SEE SH. GN-1
 Min. SPEC'S SEE BILL OF
 MATL.
 FOR INSPECTION OF
 WELDING SEE NOTB ON
 SH. GN-1

ALLIED STRUCTURAL STEEL COMPANY
 1400 WEST STREET, HANNOVER, MINN. 55103

DETAILS OF UPPER CHORD (U10-U12) & (U18-U16)
 STRUCTURE BRIDGE NR 9954
 LOCATION MINNEAPOLIS, MINN. 55401
 OWNER MINNESOTA STATE HWY DEPT.
 CUSTOMER MINNESOTA STATE HWY DEPT.

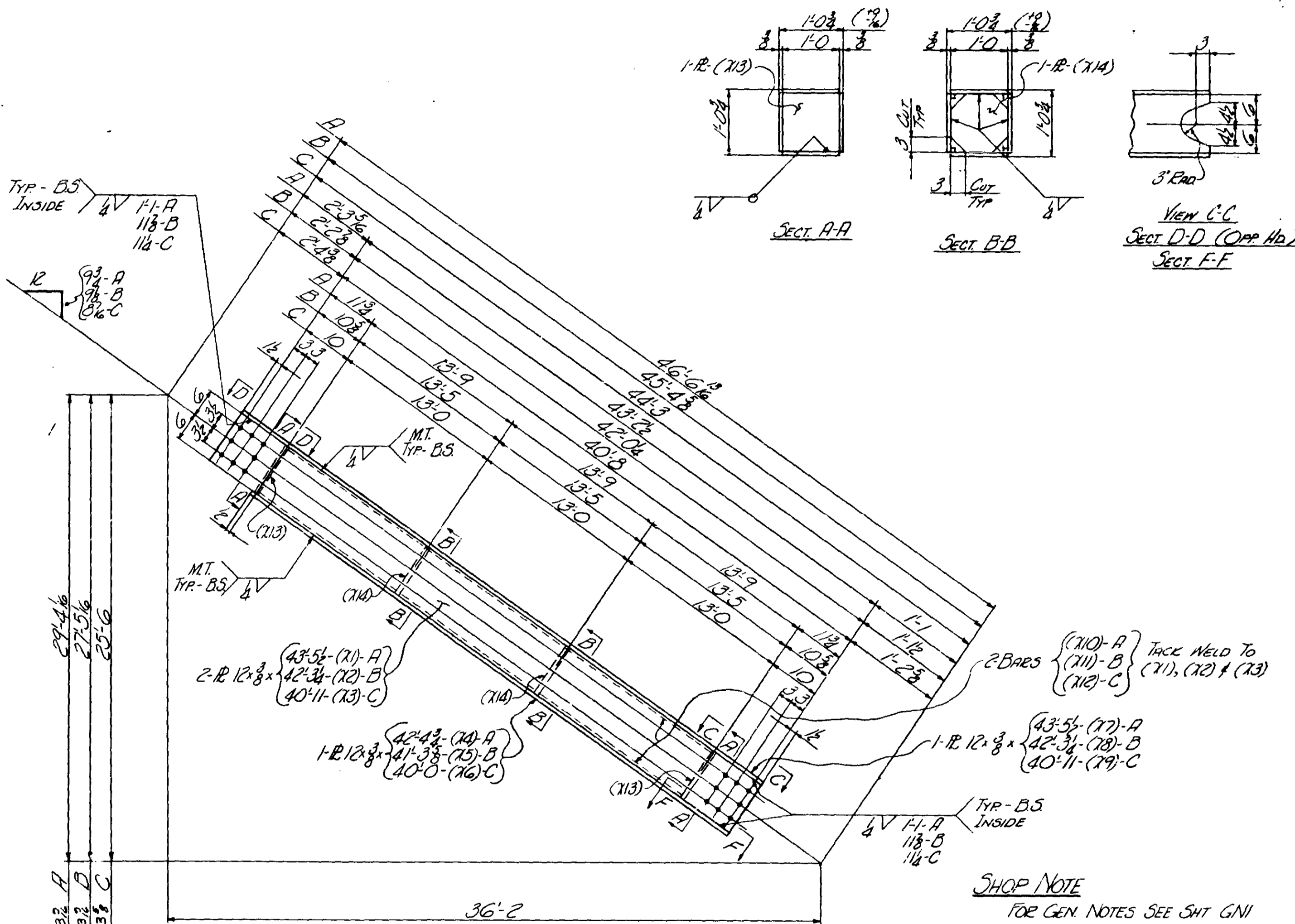
MINN. PROJ. NR 11635W-3(58)112
 STATE PROJ. NR 228-9340(BTHSW34) HANNOVER PA

DIVISIONS 16418
 DRAWN BY L.O. DATE 3-4-66 CHECKED BY H.M.H. DATE 3-30-66

OPEN HOLES 1 1/2" O.N. RIVETS & BOLTS 1" PAINT YES SEE SH. GN-1

REVISIONS

CONTRACT 3142 FABCOD 215 SHEET K02B



- 4- BRACING-1603A (L11 & L17)
- 4- BRACING-1603B (L12 & L16)
- 6- BRACING-1603C (L13-L14-L15)

SHOP NOTE
 FOR GEN. NOTES SEE SHIT GNI
 FOR MAT'L SPECS SEE BILL OF MAT'L

MINN PROJ. NO. I-IG-35W-3(58)112
 STATE PROJ. NO. 2783-9340B (TH35W-39A)

ITEM NO.	QTY	SHIP NO.	NO. REQ.	SHAPE	LENGTH	PC. NO.	REMARKS	ITEM NO.	QTY	TOTAL WEIGHT	SHIP WEIGHT
1	4	1603A		BRACING							
2											
3											
4	8			R 12x8	43.52	71		192	59	5319	3306
5	4			R 12x8	42.43	72		192		2595	
6	4			R 12x8	43.52	77		192		2660	
7	16			BRAC 3x3	41.25	70		192		316	
8	8			R 12x8	1.0	713		192		122	
9	8			R 12x8	1.0	714		192	59	122	3306
10											
11	4			4 WLD	109.2					NC	
12											
13											
14											
15	4	1603B		BRACING							
16											
17	8			R 12x8	42.36	72		192	59	5174	3306
18	4			R 12x8	41.33	75		192		2520	
19	4			R 12x8	42.36	78		192		2587	
20	16			BRAC 3x3	40.25	711		192		309	
21	8					713		192		122	
22	8					714		192	59	122	3306
23											
24	4			4 WLD	109.1					NC	
25											
26											
27	6	1603C		BRACING							
28											
29	12			R 12x8	40.11	73		192	59	7512	3306
30	6			R 12x8	40.0	76		192		3072	
31	6			R 12x8	40.11	79		192		3756	
32	24			BRAC 3x3	38.15	702		192		449	
33	12					713		192		189	
34	12					714		192	59	189	3306
35											
36	6			4 WLD	178.6					NC	
37											
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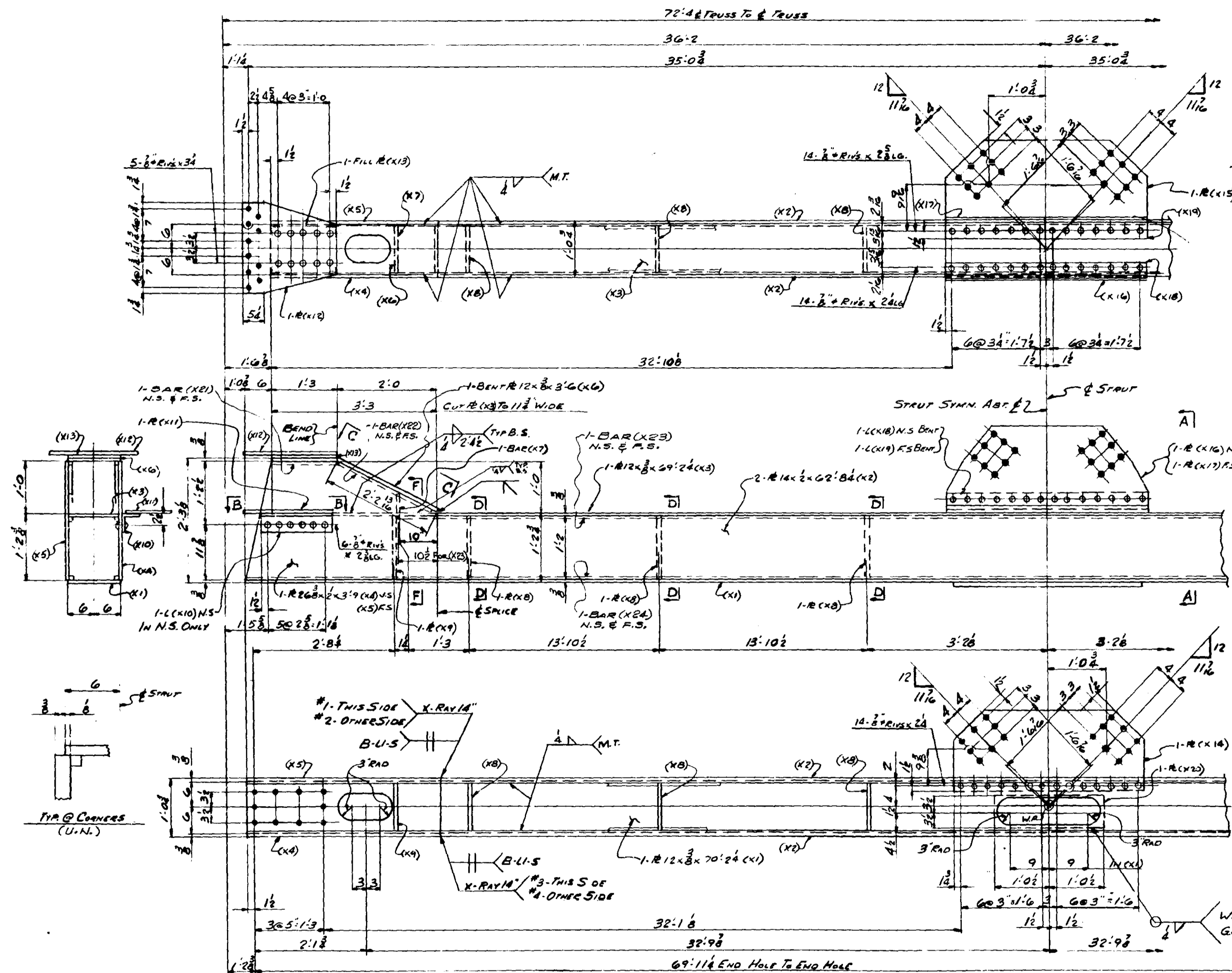
ALLIED ENGINEERS ARCHITECTS FABRICATORS & RECTORS
 STRUCTURAL STEEL COMPANY
 1001 10TH STREET, HAMMOND, INDIANA 46320

DETAILS OF SWAY BRACING
 STRUCTURE BRIDGE NO. 9340
 LOCATION MINNEAPOLIS, MINN.
 OWNER MINN. STATE HWY DEPT.
 CUSTOMER MINN. STATE HWY DEPT.

HAMMOND FAB
 OPEN HOLES 1/8" RIVETS & BOLTS - PAINT YES, SEE SHIT GNI
 DRAWN BY B.S.M. DATE 9/5/66 CHECKED BY H.M.H. DATE 4/30/66

REF. DIMS. EXP. E13 REVISIONS

CONTRACT 3142 FABCOD 264 SHEET 1603



MINN. PROJ. NE I-G 35W-3(58)112
 STATE PROJ. NE 2783-9340B (THRSW-39)

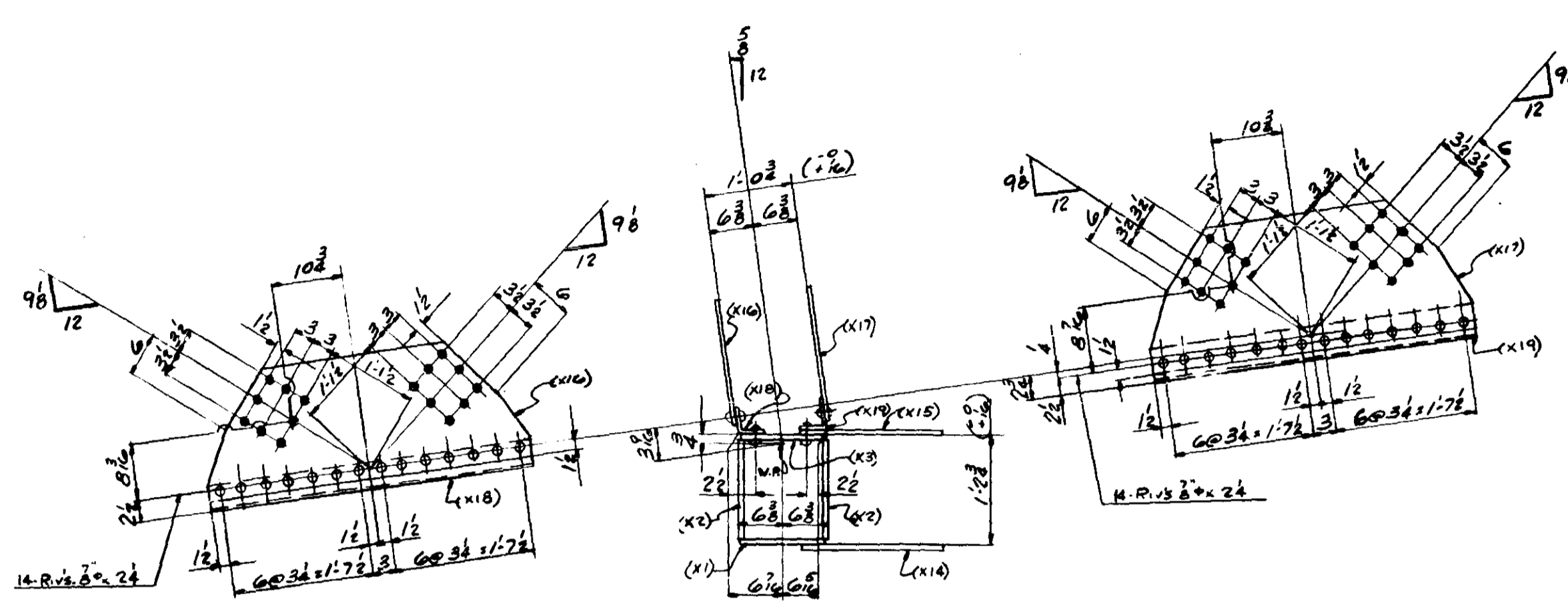
ALLIED ENGINEERS, ARCHITECTS & STRUCTURAL STEEL COMPANY
 1220 15TH STREET, HAMBURG, INDIANA 46343

ONE - STRUT - 1604A } ALIKE EXCEPT FOR MARKS
 ONE - STRUT - 1604B }

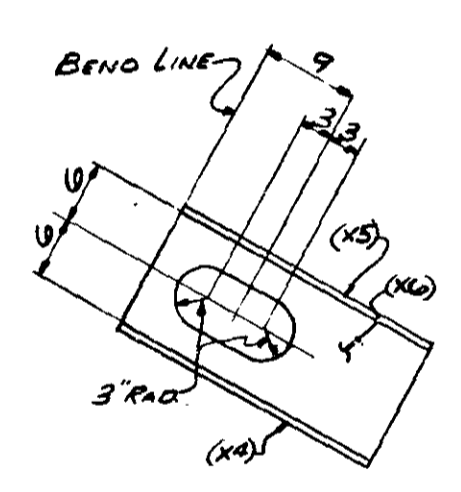
NO.	DATE	REVISIONS

DRAWN BY <u>L.A.</u> DATE <u>3-9-66</u>	DETAILS OF <u>BOTTOM STRUT @ L126 L16</u>
CHECKED BY <u>H.M.H.</u> DATE <u>4-30-66</u>	STRUCTURE <u>BRIDGE NR 9340</u>
IN CHARGE OF <u>J. NEWELL</u>	LOCATION <u>MINNEAPOLIS, MINNESOTA</u>
PLANT <u>HAMBURG</u>	OWNER <u>MINNESOTA STATE HWY. DEPT.</u>
REFERENCE DWGS <u>E186 E19</u>	CONTRACT <u>3142</u>
	DIV. <u>1648</u> FAB. CD. <u>264</u> SHEET <u>1604AB</u>

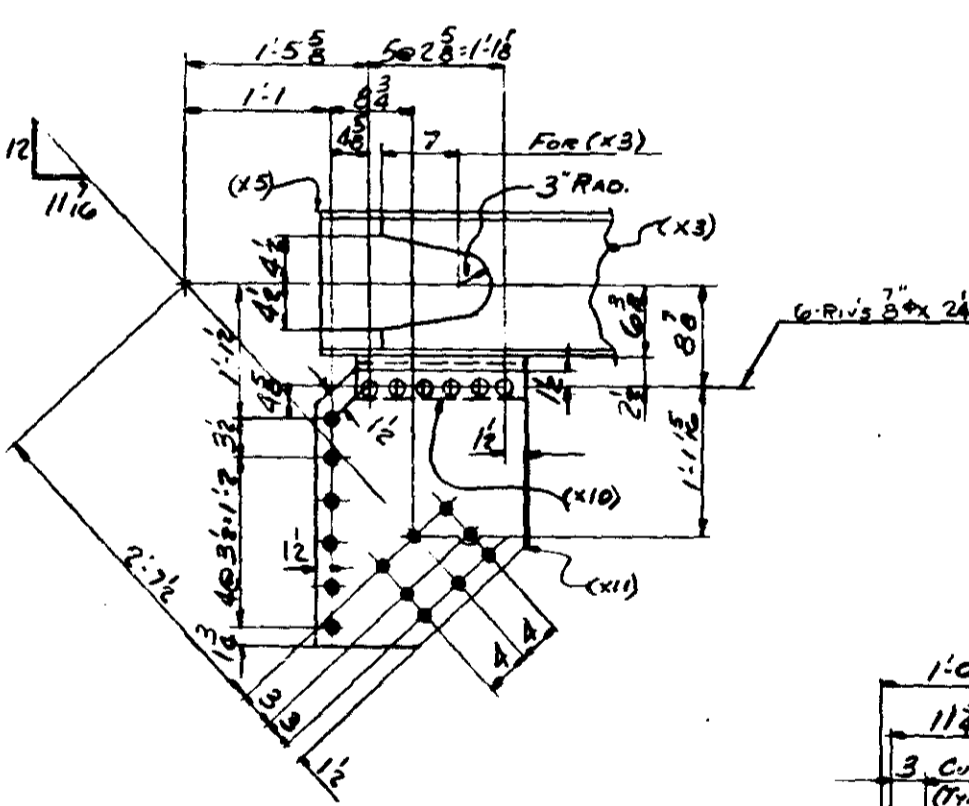
Weld (X20) AFTER ALL GUSSET'S HAVE BEEN RIVETED



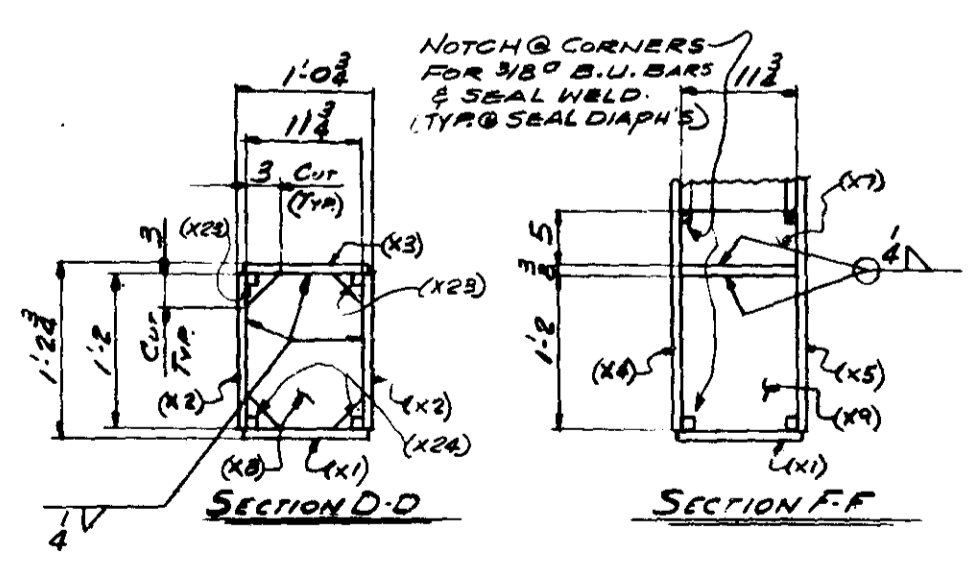
SECTION A-A



VIEW C-C



SECTION B-B



SECTION D-D

SECTION F-F

NOTES:
 FOR GEN. NOTES SEE SHT G-NI
 FOR MAT'L. SPEC'S. SEE BILL OF MAT'L.
 FOR INSPECTION OF WELDS - SEE SHT G-NI

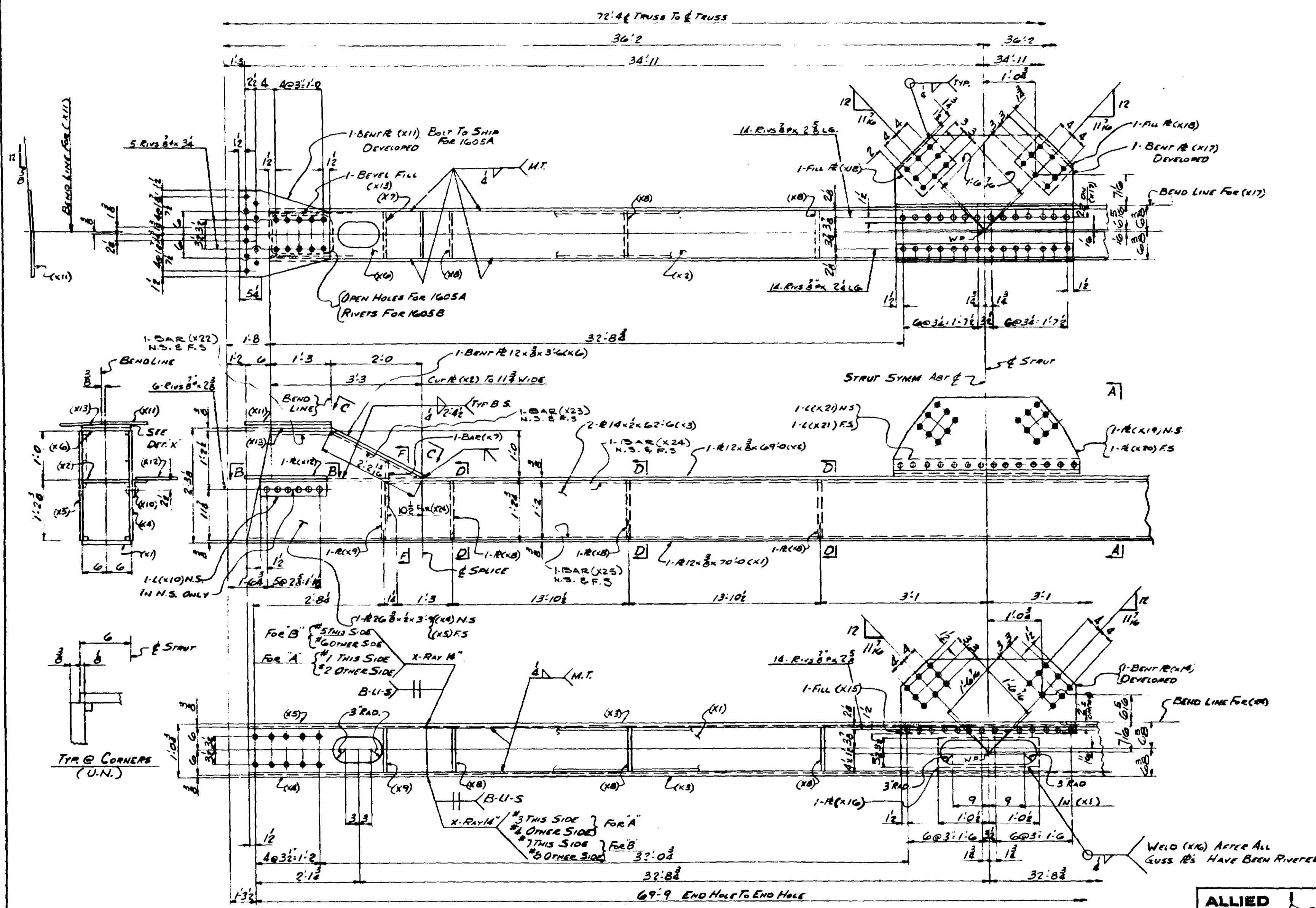
QTY	16	18	SHIP MK	NO. REQD	SHAPE	LENGTH	PC MK	REMARKS	ITEM NO.	WT. LBS.	TOTAL WEIGHT	N.O. NO.
1					Weld							
2					Weld							
3												
4					R 12x3	70 24	X1		4010	59	2198	3306
5					R 14x2	62 04	X2		4009	59	5968	3306
6					R 12x3	69 24	X3		4011	59	2117	3306
7					R 20x3	3 9	X4		4012	59	618	3306
8					R 20x3	3 9	X5		4012	59	628	3306
9					R 12x3	3 0	X6	BENT	4012	59	214	3306
10					Bar 5x3	0 11	X7		4014	59	25	3306
11					R 11x3	1 2	X8		4014	59	214	3306
12					R 11x3	1 2	X9		4022	59	70	3306
13					L 4x4	1 4	X10		4016	59	53	3306
14					R 20x3	2 1	X11		4018	59	224	3306
15					R 21x3	1 10	X12		4017	59	197	3306
16					Flt R 12x3	1 5	X13		4019	59	127	3306
17					R 20x3	3 6	X14		4020	59	185	3306
18					R 20x3	3 9	X15		4021	59	197	3306
19					R 19x3	3 9	X16		4024	59	182	3306
20					R 19x3	3 9	X17		4023	59	189	3306
21					L 4x4	3 9	X18	BENT	4022	59	74	3306
22					L 4x4	3 9	X19	BENT	4022	59	74	3306
23					Bar 7x3	2 1	X20		4026	59	37	3306
24					228 Riv 3/8							
25					2 Weld	328 0						
26												
27												
28												
29												
30					4 BAR 3/8x3/8	1 9	X21			59	2	3306
31					4 BAR 3/8x3/8	2 2	X22				4	
32					4 BAR 3/8x3/8	6 5/8	X23				129	
33					4 BAR 3/8x3/8	70 2 1/4	X24				135	
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ALLIED STRUCTURAL STEEL COMPANY
 1125 15TH STREET S.W. MINNEAPOLIS, MINN. 55415
 MICRO-FILM 11

MINN. PROJ. NR I-2635W-3 (58) 112
 STATE PROJ. NR 2783-9340 B (TH35W-394) **HAMMOND FLD**
 DIVISION 16
 DETAILS OF BOTTOM STRUT @ LIZÉ LIG
 STRUCTURE BRIDGE NR 9340
 LOCATION MINNEAPOLIS, MINNESOTA
 OWNER MINNESOTA STATE HWY. DEPT.
 CUSTOMER MINNESOTA STATE HWY. DEPT.

OPEN HOLES 15" RIVETS 8" PAINT YES SEE SHT G-NI
 DRAWN BY L.O. DATE 3-9-66 CHECKED BY H.M.H. DATE 4-30-66
 REVISIONS: 11-22-66

CONTRACT 3142 FABCOD 264 SHEET 1604B



ONE - BOTTOM STRUT - 1605 A
 ONE - BOTTOM STRUT - 1605 B

MINN. PROJ. NR. T-6354-3(50)112
 STATE PROJ. NR. 2203-9340B(74)584374

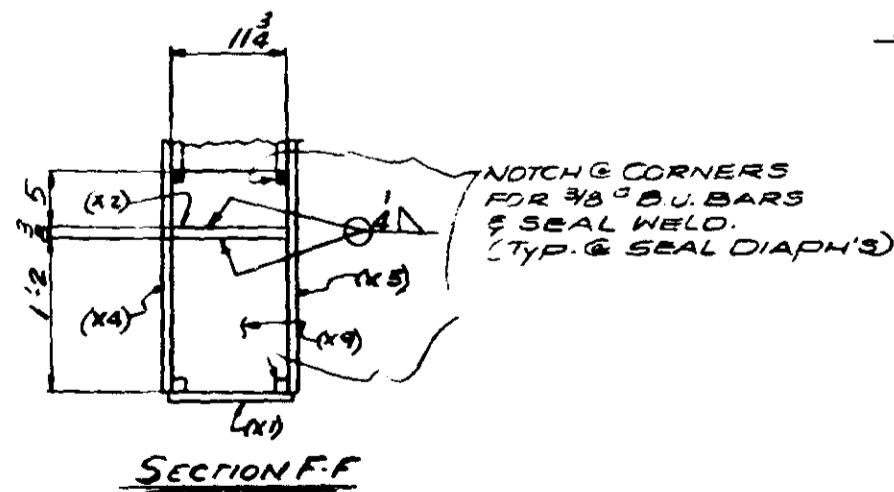
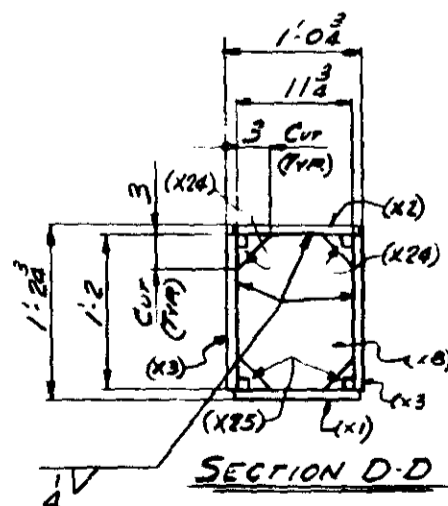
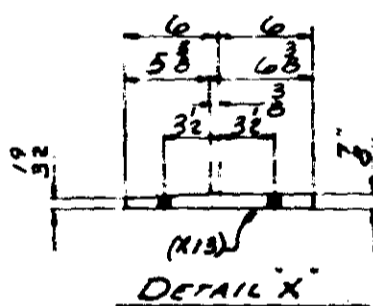
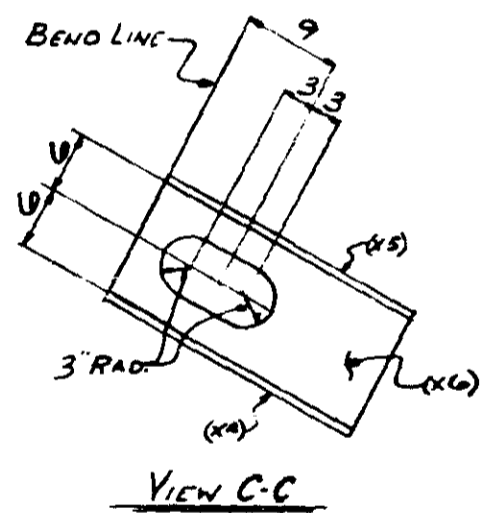
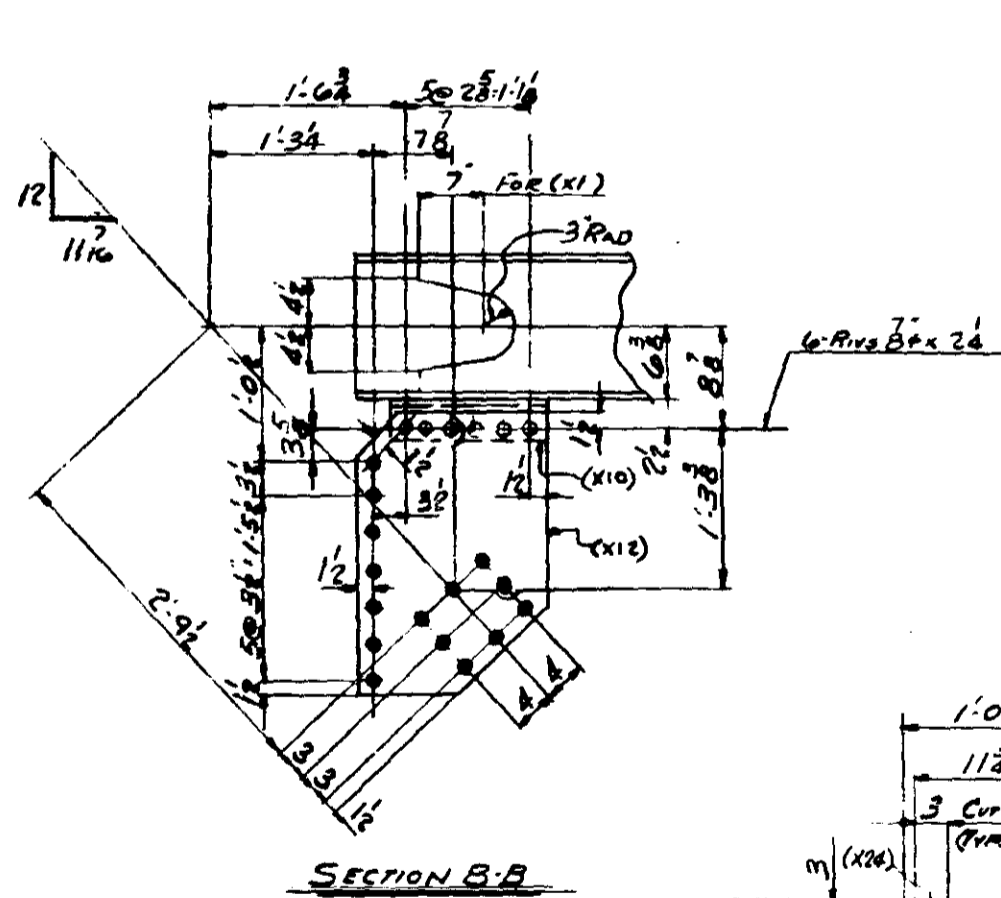
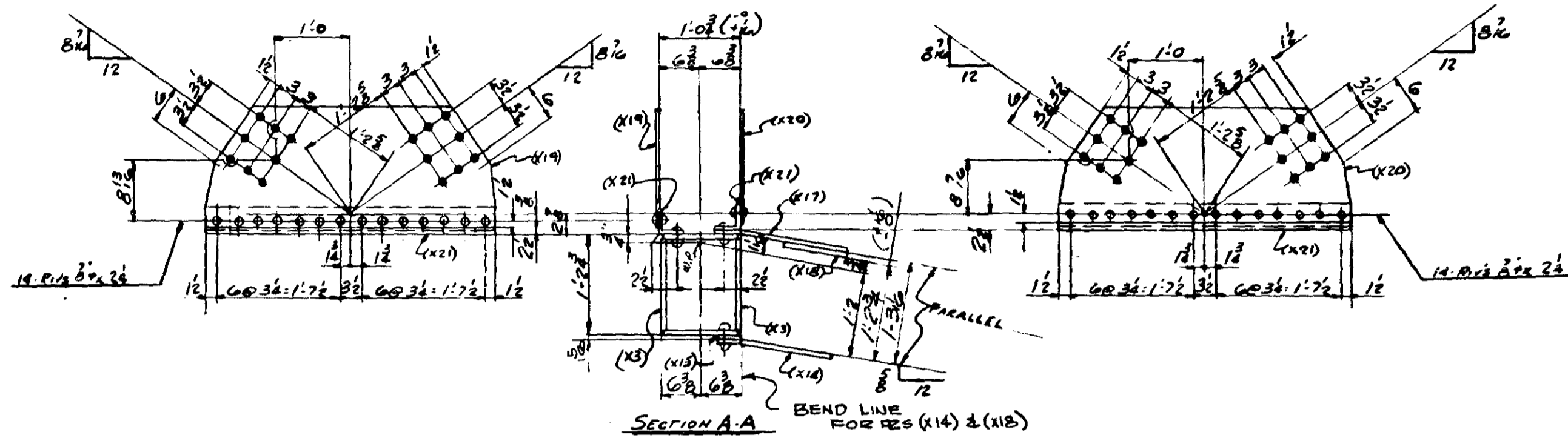
REVISIONS	DATE	BY

ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS, FABRICATORS, ERECTORS
 1400 15TH STREET, MINNEAPOLIS, MINN. 55403

DRAWN BY: L.O. DATE: 3-14-66
 CHECKED BY: H.M.H. DATE: 4-30-66
 IN CHARGE OF: J. NEWELL
 FAB. PLANT: HANMOND
 REFERENCE DWGS: E12, E13

DETAILS OF: BOTTOM STRUT @ L13 & L15
 STRUCTURE: BRIDGE NR 9340
 LOCATION: MINNEAPOLIS, MINNESOTA
 OWNER: MINNESOTA STATE HWY. DEPT.
 CONTRACT: 3142 DIV. 1640 FAB. CD 264 SHEET 1605A-B

WELD (X16) AFTER ALL GUSSET PLATES HAVE BEEN RIVETED



NOTES:
 FOR GEN. NOTES SEE SMT & NI
 MAT'L SPECS SEE BILL OF MAT'L

MINN. PROJ. NO. I-1635W-3(58)112
 STATE PROJ. NO. 2785-93408 (TM35W-394)

Div	Item	SHIP MK	NO	SHAPE	LENGTH	PC MK	REMARKS	ITEM NO	TOTAL WEIGHT	W.H.
16	18									
	1			1605A One Bottom Strut						
	2			1605B One Bottom Strut						
	3									
	4									
	5		2	R 12x8	70 0	X1		400	59	2142
	6		2	R 12x8	69 0	X2		401	59	2111
	7		4	R 12x8	68 6	X3		402	59	2750
	8		4	R 20x8	3 9	X4		403	59	619
	9		4	R 20x8	3 9	X5		404	59	619
	10		4	R 12x8	3 6	X6	BENT	405	59	219
	11		4	BAR 5/8	0 10	X7		406	59	25
	12		12	R 11/8	1 2	X8		407	59	210
	13		4	R 11/8	1 2	X9		408	59	70
	14		4	L 4x4	1 4	X10		409	59	53
	15		4	R 21/8	1 9	X11	BENT	410	59	96
	16		4	R 19/8	2 3	X12		411	59	230
	17		4	R 12x8	1 3	X13	BENT	412	59	153
	18		2	R 20x8	3 0	X14	BENT	413	59	186
	19		2	BAR 3/4	3 6	X15		414	59	27
	20		2	BAR 7/8	2 1	X16		415	59	37
	21		2	R 20x8	3 9	X17	BENT	416	59	199
	22		4	R 9x8	1 0	X18		417	59	39
	23		2	R 10x8	3 9	X19		418	59	176
	24		2	R 12x8	3 9	X20		419	59	172
	25		4	L 3x4x2	3 9	X21		420	59	149
	26									
	27			138 Rivets						N.C.
	28		2	2 WLD	378 0					N.C.
	29									
	30									
	31									
	32		4	BAR 3/8	1 3	X22		59	2	306
	33		4	BAR 3/8	2 2	X23			4	
	34		4	BAR 3/8	3 1	X24			23	
	35		4	BAR 3/8	70 0	X25			134	
	36									
	37									
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ALLIED STRUCTURAL STEEL COMPANY
 1400 WEST STREET, MINNEAPOLIS, MINN. 55402

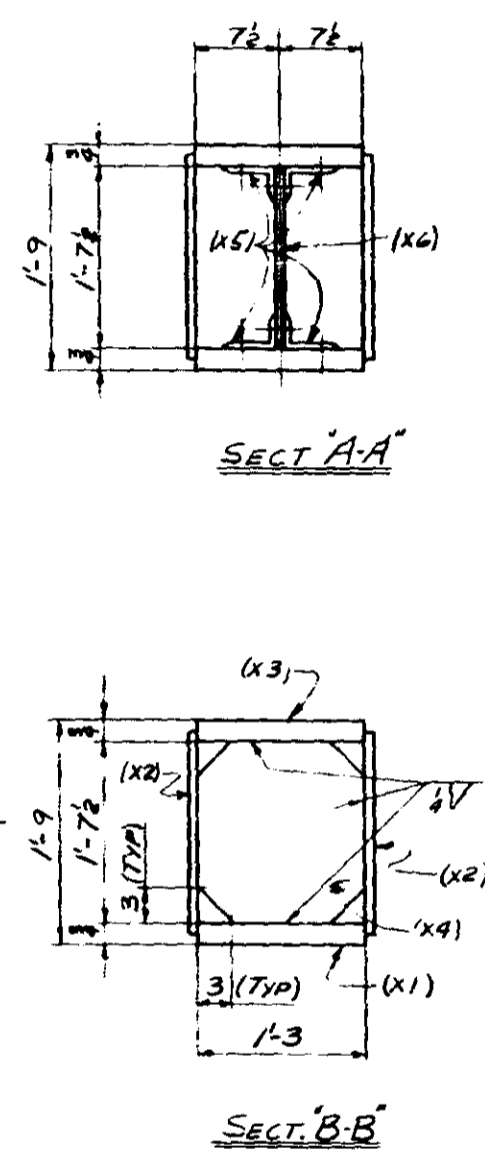
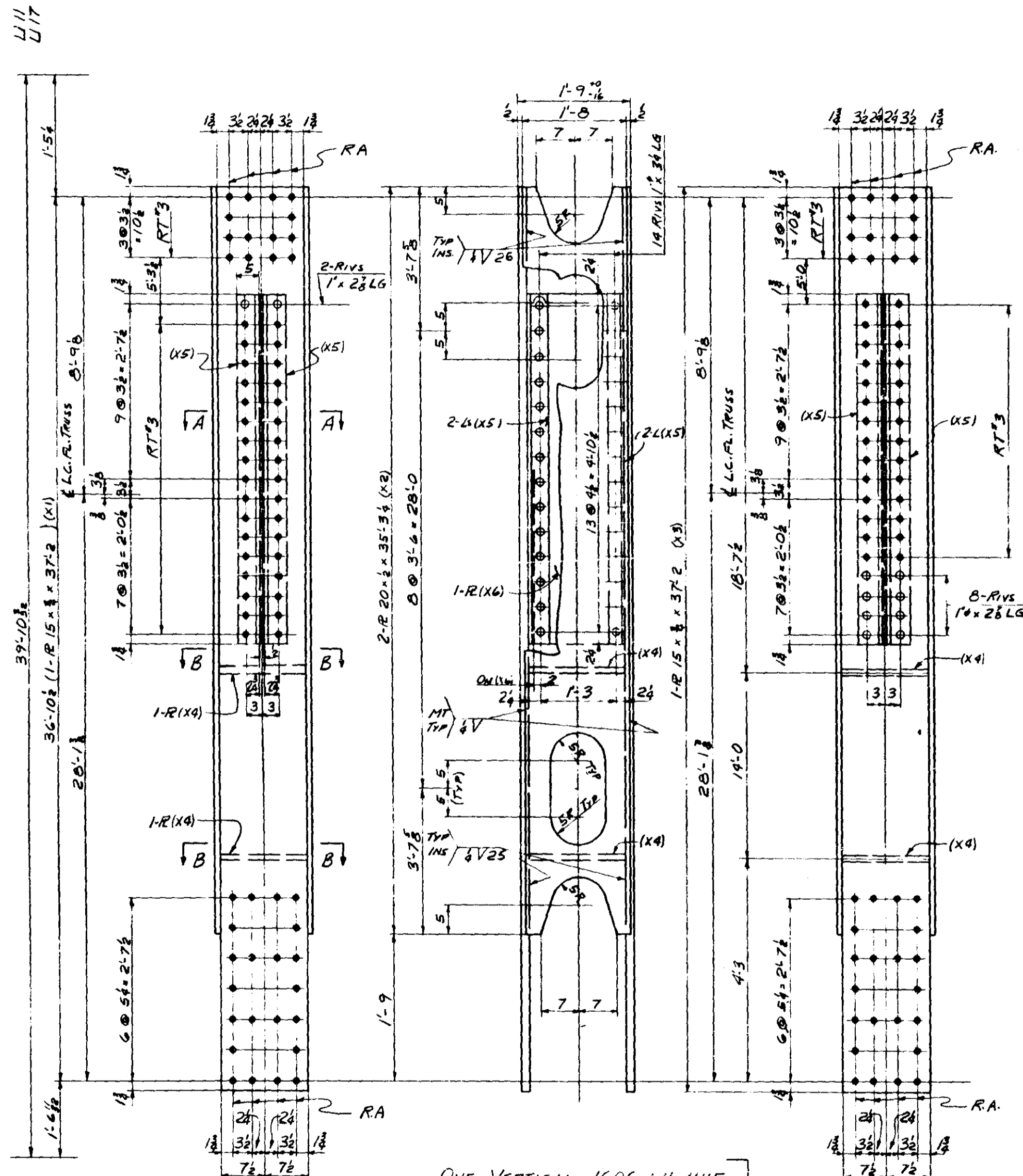
DIVISION #10618
 HANNOUD FAB

DETAILS OF BOTTOM STRUT @ L13&L15
 STRUCTURE: BRIDGE NR 9140
 LOCATION: MINNEAPOLIS, MINNESOTA
 OWNER: MINNESOTA STATE HWY DEPT.
 CUSTOMER: MINNESOTA STATE HWY DEPT.

OPEN HOLES: 1/2" RIVETS: 3" PAINT: YES SEE SMT & NI
 DRAWN BY: L.O. DATE: 3-14-66 CHECKED BY: H.M.H. DATE: 4-30-66

REVISIONS:

CONTRACT: 3142 FABCOD: 264 SHEET: 1605B



SHOP RIVETS	
40	1" RIV. 2 1/2"
112	1" RIV. 3 1/2"

SHOP NOTE
 FOR GEN NOTES SEE GNI
 FOR MATL SPECS SEE BILL OF MATL
 FOR INSPECTION OF WELDS SEE
 NOTE ON SNT GNI

ONE VERTICAL 1606 L11-U11E
 ONE do 1606 L11-U11W
 ONE do 1606 L17-U17E
 ONE do 1606 L17-U17H

ALIKE EXCEPT
 FOR MARKS

DIV	NO	SHIP MK	NO	SHAPE	LENGTH	PC	REMARKS	ITEM NO	TOTAL WEIGHT	MHD
1618	1									
	2									
	3									
1	4	ONE	VERTICAL	1606 L11-U11E	(21 x 37'-0)					
1	5	ONE	do	1606 L11-U11W						
1	6	ONE	do	1606 L17-U17E						
1	7	ONE	do	1606 L17-U17H						
	8									
	9	4	R 15 x 3/8	37 2	X1			3602	61	3686
	10	8	R 20 x 1/2	35 3/4	X2			3603	61	4594
	11	4	R 15 x 3/8	37 2	X3			3604	61	5686
	12	8	R 15 x 3/8	1 7/8	X4			3605	59	249
	13	16	L 5 x 3/8 x 2	5 3	X5			3606	59	1142
	14	4	R 19 x 2	5 3	X6			3607	59	678
	15									
	16									
	17	4	WLD	163 8						NC
	18	152	1" RIV							NC
	19									
	20									
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ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS, FABRICATORS, ERECTORS
 1412 14TH STREET, MINNEAPOLIS, MINN. 55404

DETAILS OF: TRUSS VERTICAL
 STRUCTURE: BRIDGE No 9340
 LOCATION: MINNEAPOLIS, MINNESOTA
 OWNER: MINN. STATE HWY. DEPT.
 CUSTOMER: MINN. STATE HWY. DEPT.

MINN. PROJ. No I-G 35W-3 (58)112
 STATE PROJ. No 2783-9390B (TH 35W-390)

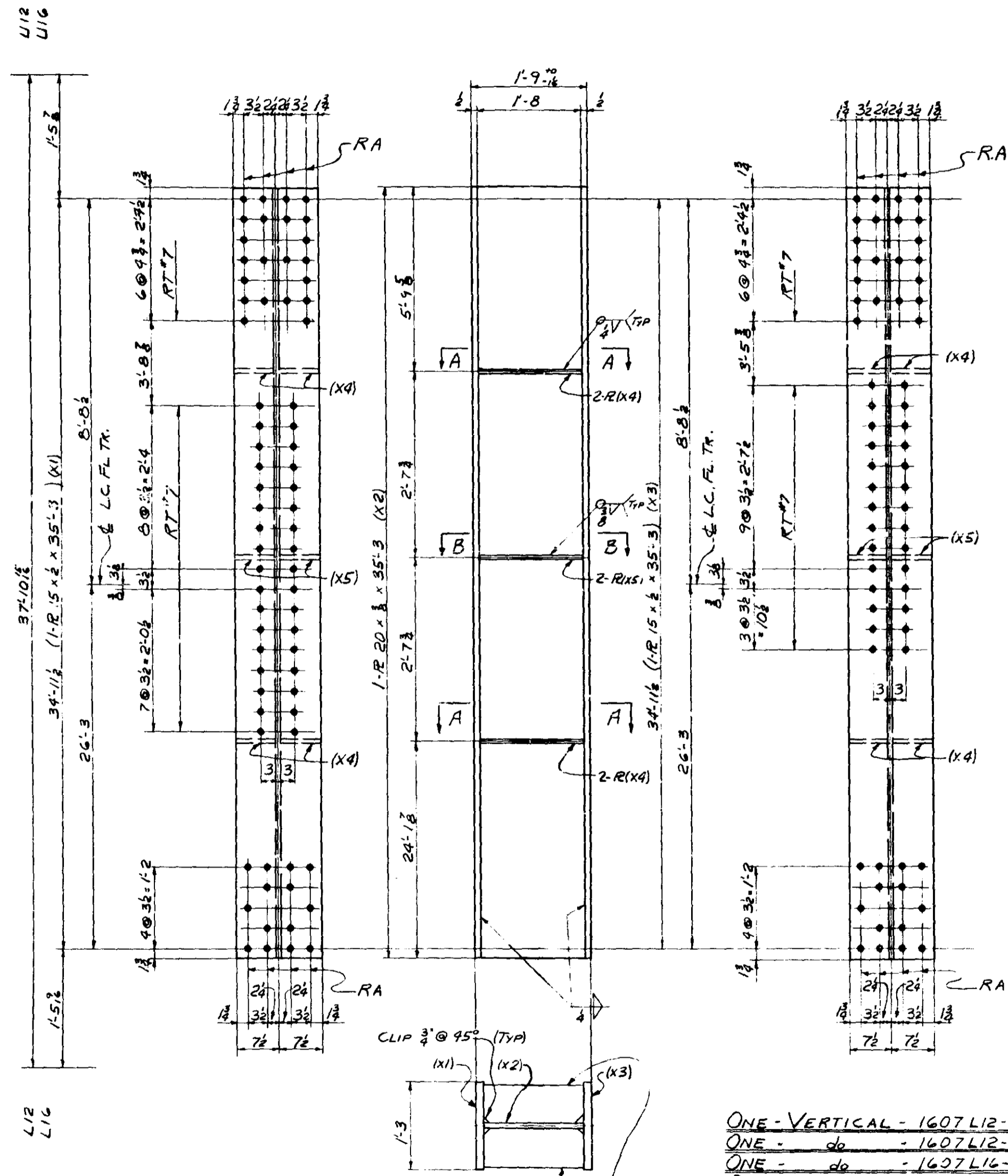
OPEN HOLES: 1/6" RIVETS: 1" PAINT: YES SEE SNT GNI

DRAWN BY: MP DATE: 3-10-66 CHECKED BY: L.O. DATE: 3-30-66

REVISIONS:

△	△	△	△
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CONTRACT: 3142 FABCOD: 214 SHEET: 1606



- ONE - VERTICAL - 1607 L12-U12E
- ONE - do - 1607 L12-U12W
- ONE - do - 1607 L16-U16E
- ONE - do - 1607 L16-U16W

ALIKE EXCEPT FOR MARKS

SECT A-A (X4) FOR SECT AA
SECT B-B (X5) FOR SECT BB

SHOP NOTE
FOR GEN NOTES SEE GNI
FOR MATL SPECS SEE BILL OF MATL
FOR INSPECTION OF WELOS SEE NOTE ON SHT GNI

Div.	LINE	SHIP MK.	NO. REQD.	SHAPE	LENGTH	PC. MK.	REMARKS	ITEM NO.	TOT. L. WEIGHT
16	18		1					BID	
			2					MHD	
1	3		ONE	VERTICAL	1607	L12-U12E	(21 x 35'-0)		
1	4		ONE	do	1607	L12-U12W			
1	5		ONE	do	1607	L16-U16E			
1	6		ONE	do	1607	L16-U16W			
	7								
	8								
	9	4	R 15 x 2	35.3	X1	UM	3610 61	3596	3310
	10	4	R 20 x 3	35.3	X2		3611 61	3596	3310
	11	4	R 15 x 2	35.3	X3	UM	3610 61	3596	3310
	12	16	R 7 x 3	1.8	X4		3612 59	217	3326
	13	8	R 7 x 3	1.8	X5		3613 59	238	3326
	14								
	15	4	WLD	5.2					NC
	16	4	WLD	151.6					NC
	17								
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	60								
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ALLIED STRUCTURAL STEEL COMPANY
1425 15TH STREET, MINNEAPOLIS, MINN. 55404

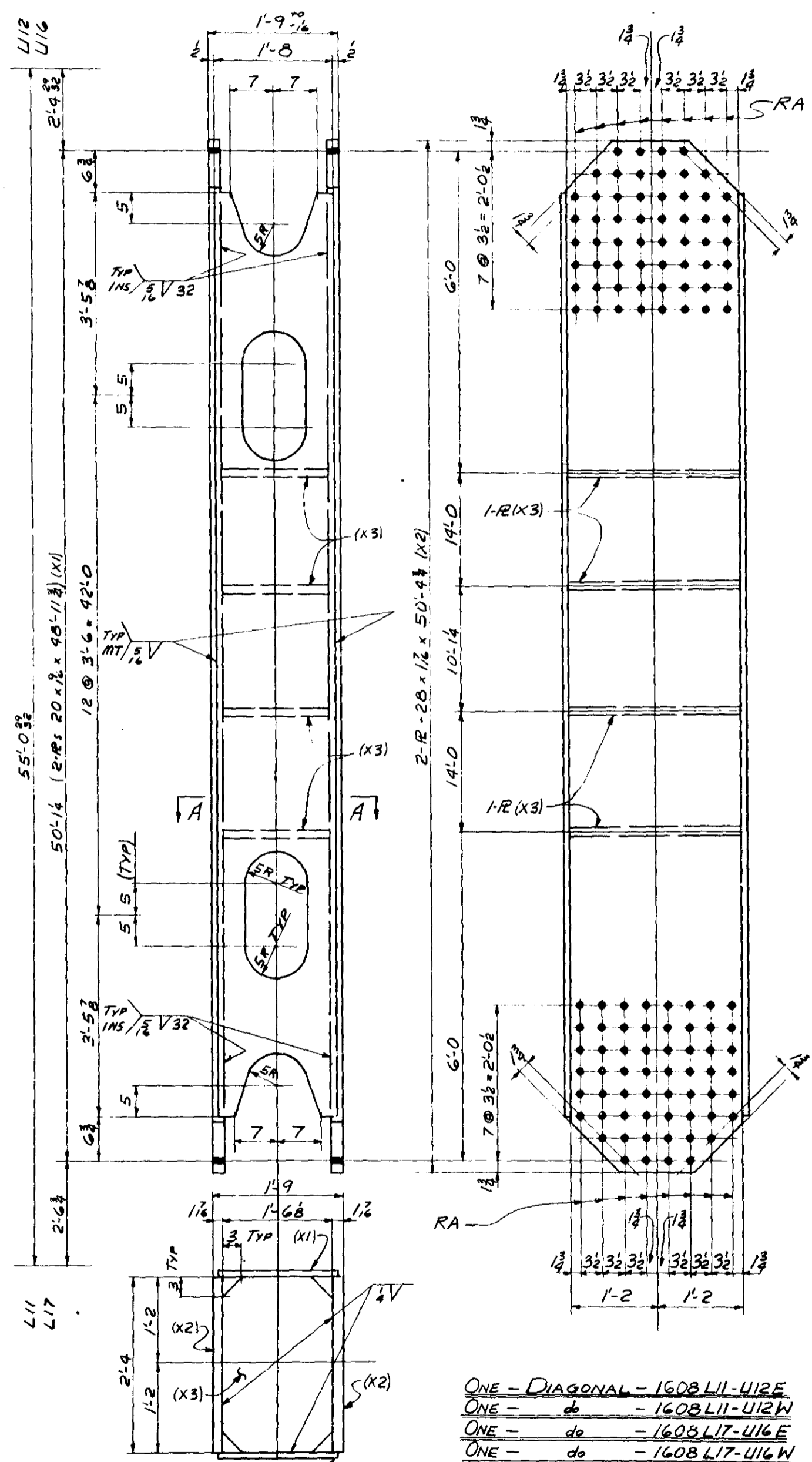
MINN PROJ. No I.G. 35W-3(58)112
STATE PROJ. No 2783-9340B (TH 35W-394)

DETAILS OF TRUSS VERTICAL
STRUCTURE BRIDGE No 9390
LOCATION MINNEAPOLIS MINNESOTA
OWNER MINN STATE HWY DEPT.
CUSTOMER MINN STATE HWY DEPT.

HAMMOND FAB OPEN HOLES 1/8 RIVETS & BOLTS PAINT YES SEE SHT GNI
DRAWN BY M.P. DATE 3-10-66 CHECKED BY L.O. DATE 3-30-66

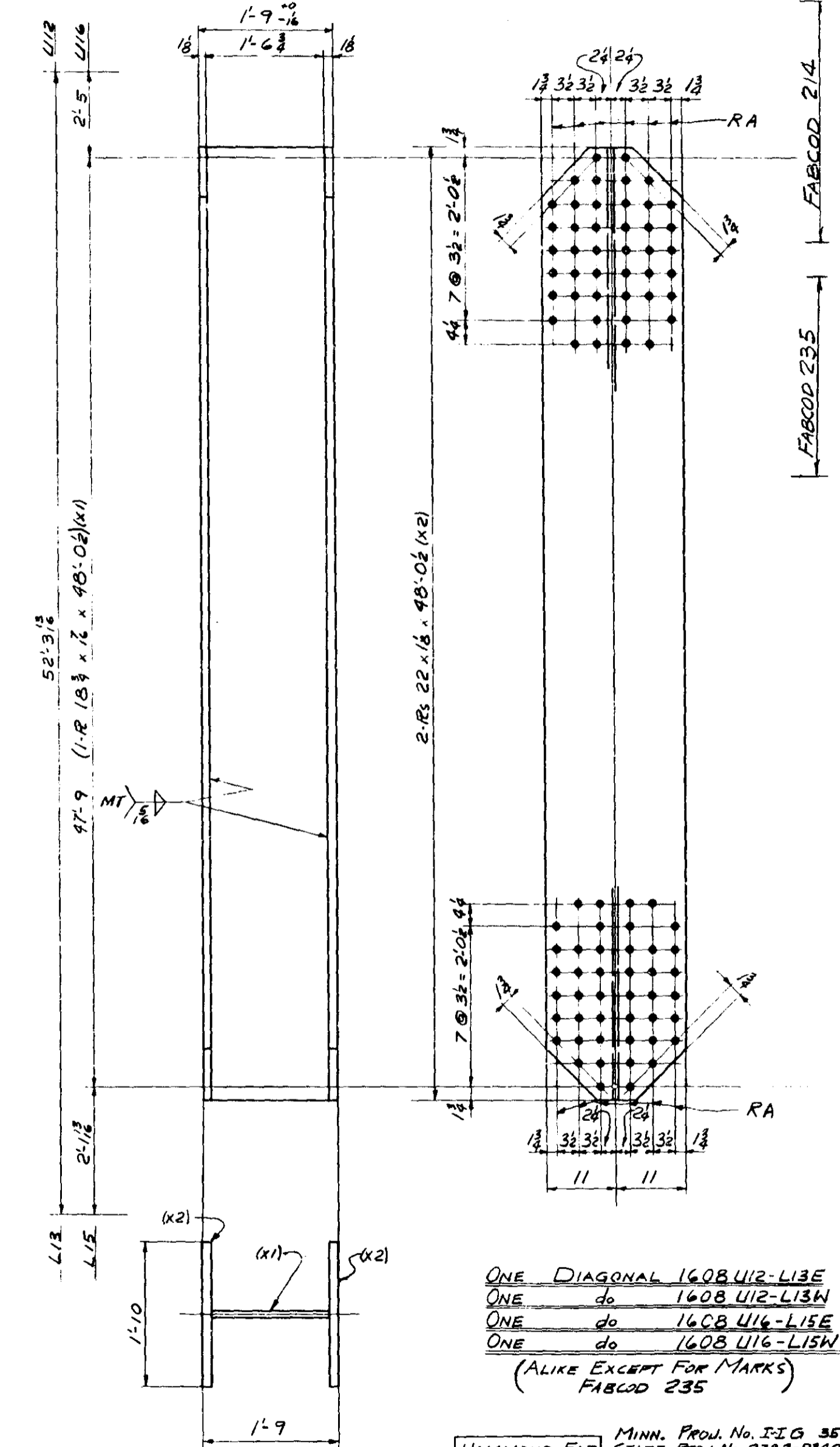
REVISIONS

CONTRACT 3142 FABCOD 235 SHEET 1607



ONE - DIAGONAL - 1608 L11-U12E
 ONE - do - 1608 L11-U12W
 ONE - do - 1608 L17-U16E
 ONE - do - 1608 L17-U16W
 (ALIKE EXCEPT FOR MARKS)
 FABCOD 214

SHOP NOTE
 FOR GEN NOTES SEE GNI
 FOR MATL SPECS SEE BILL OF MATL
 FOR INSPECTION OF WELDS SEE NOTE ON SHT GNI



ONE DIAGONAL 1608 U12-L13E
 ONE do 1608 U12-L13W
 ONE do 1608 U16-L15E
 ONE do 1608 U16-L15W
 (ALIKE EXCEPT FOR MARKS)
 FABCOD 235

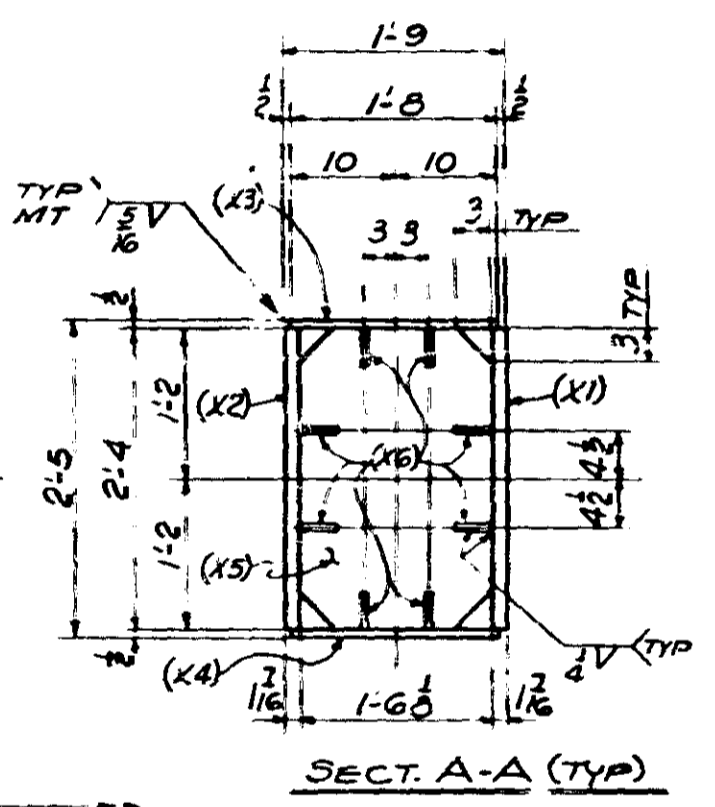
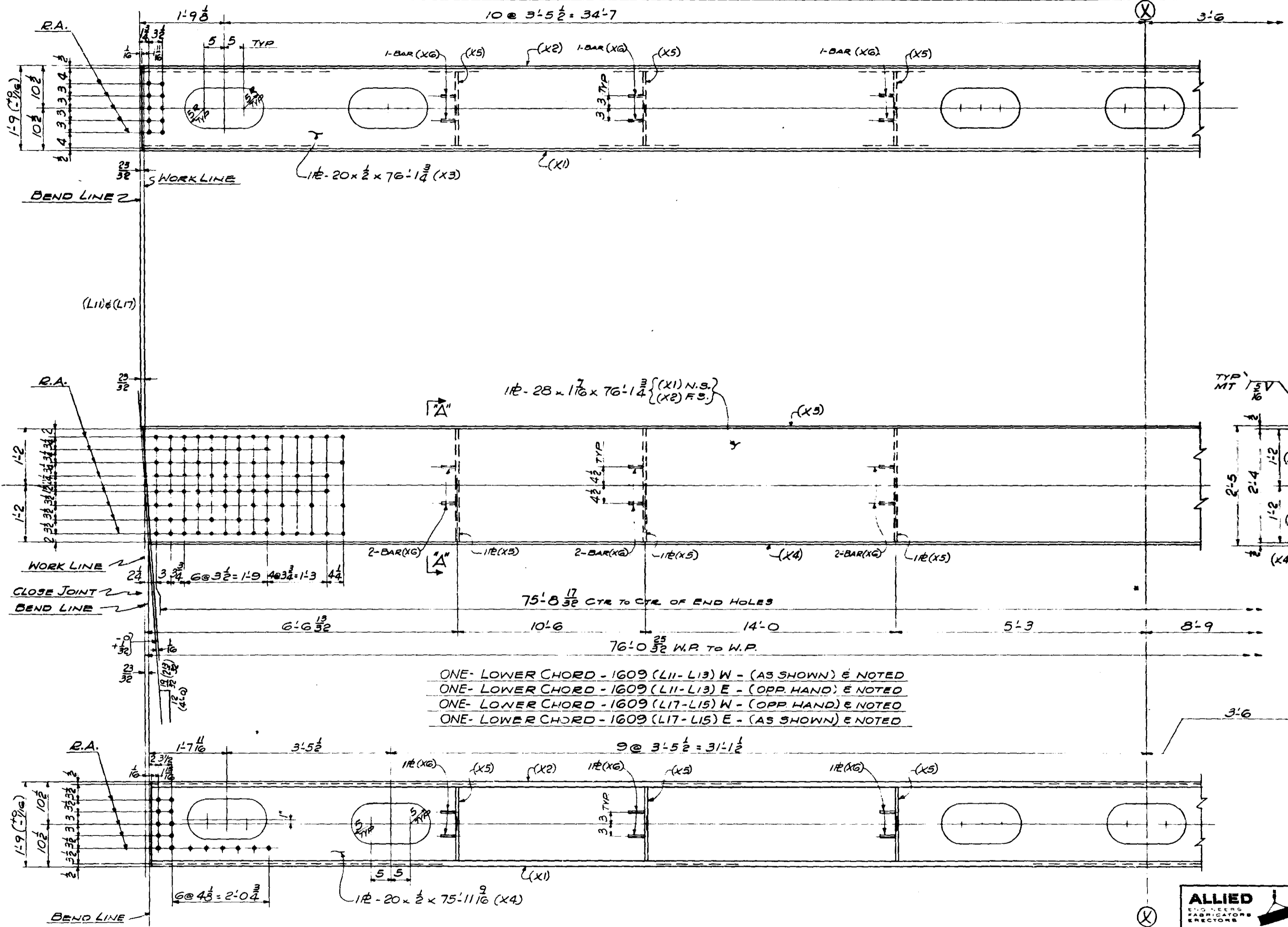
MINN. PROJ. No. I-I-G 35W-3(5B)/12
 STATE PROJ. No. 27B3-9390B (TH 35W-394)
 OPEN HOLES 1/2 RIVETS & BOLTS PAINT YES SEE SHT GNI
 DRAWN BY MP DATE 3-11-66 CHECKED BY L.O. DATE 3-21-66

DIV	LINE	SHIP NO	NO REQ	SHAPE	LENGTH	PC NO	REMARKS	ITEM NO	TOTAL WEIGHT	WLD
1618	1									
	2									
	3									
1	4			ONE DIAGONAL	1608 L11-U12E		(29 x 50'-5)			
1	5			ONE do	1608 L11-U12W					
1	6			ONE do	1608 L17-U16E					
1	7			ONE do	1608 L17-U16W					
	8									
	9			8 R 20 x 1/2	48.118 X1			3478	61	14788 3310
	10			8 R 20 x 1/2	50.93 X2			3478	60	55173 3309
	11			16 R 18 1/2 x 3/8	2.4 X3			3478	59	803 3306
	12									
	13									
	14			4 1/2 WLD	217.3					NE
	15			4 1/2 WLD	22.9					NC
	16									
	17									
1	18			ONE DIAGONAL	1608 U12-L13E		(22 x 48'-0)			
1	19			ONE do	1608 U12-L13W					
1	20			ONE do	1608 U16-L15E					
1	21			ONE do	1608 U16-L15W					
	22									
	23									
	24			4 R 18 1/2 x 1/2	48.02 X1			3478	61	5340 3310
	25			8 R 22 x 1/2	48.02 X2			3478	60	32342 3309
	26									
	27			4 1/2 WLD	193.0					NE
	28									
	29									
	30									
	31									
	32									
	33									
	34									
	35									
	36									
	37									
	38									
	39									
	40									
	41									
	42									
	43									
	44									
	45									
	46									
	47									
	48			BID ITEM	59		863			
	49				60		275.5			
	50				61		20348			
	51									
	52									
	53									
	54									
	55									
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ALLIED STRUCTURAL STEEL COMPANY
 FABRICATORS & ERECTORS
 1425 10TH STREET HAMBURG INDIANA 46343

DETAILS OF TRUSS DIAGONALS
 STRUCTURE BRIDGE No 9390
 LOCATION MINNEAPOLIS MINNESOTA
 OWNER MINN STATE HWY DEPT
 CUSTOMER MINN STATE HWY DEPT

CONTRACT 3142
 FABCOD 235
 SHEET 1608



ONE- LOWER CHORD - 1609 (L11- L13) W - (AS SHOWN) & NOTED
 ONE- LOWER CHORD - 1609 (L11- L13) E - (OPP. HAND) & NOTED
 ONE- LOWER CHORD - 1609 (L17- L15) W - (OPP. HAND) & NOTED
 ONE- LOWER CHORD - 1609 (L17- L15) E - (AS SHOWN) & NOTED

MINN. PROJ. NO I-1635W-3 (58) 112
 STATE PROJ. NO 2705-9340B (TH35W-394)

REVISIONS	DATE	BY

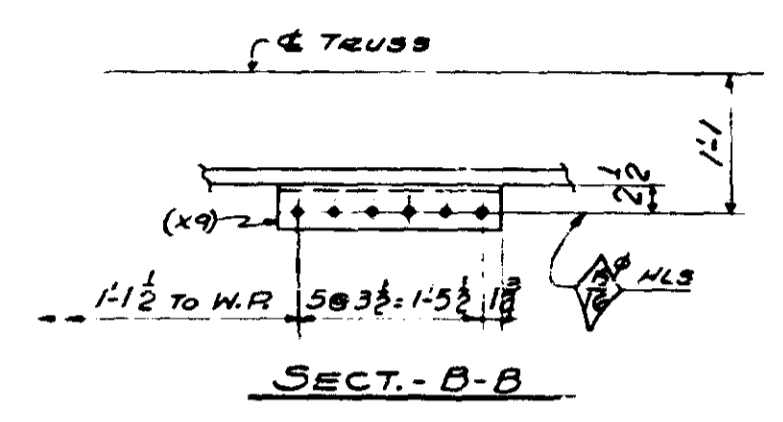
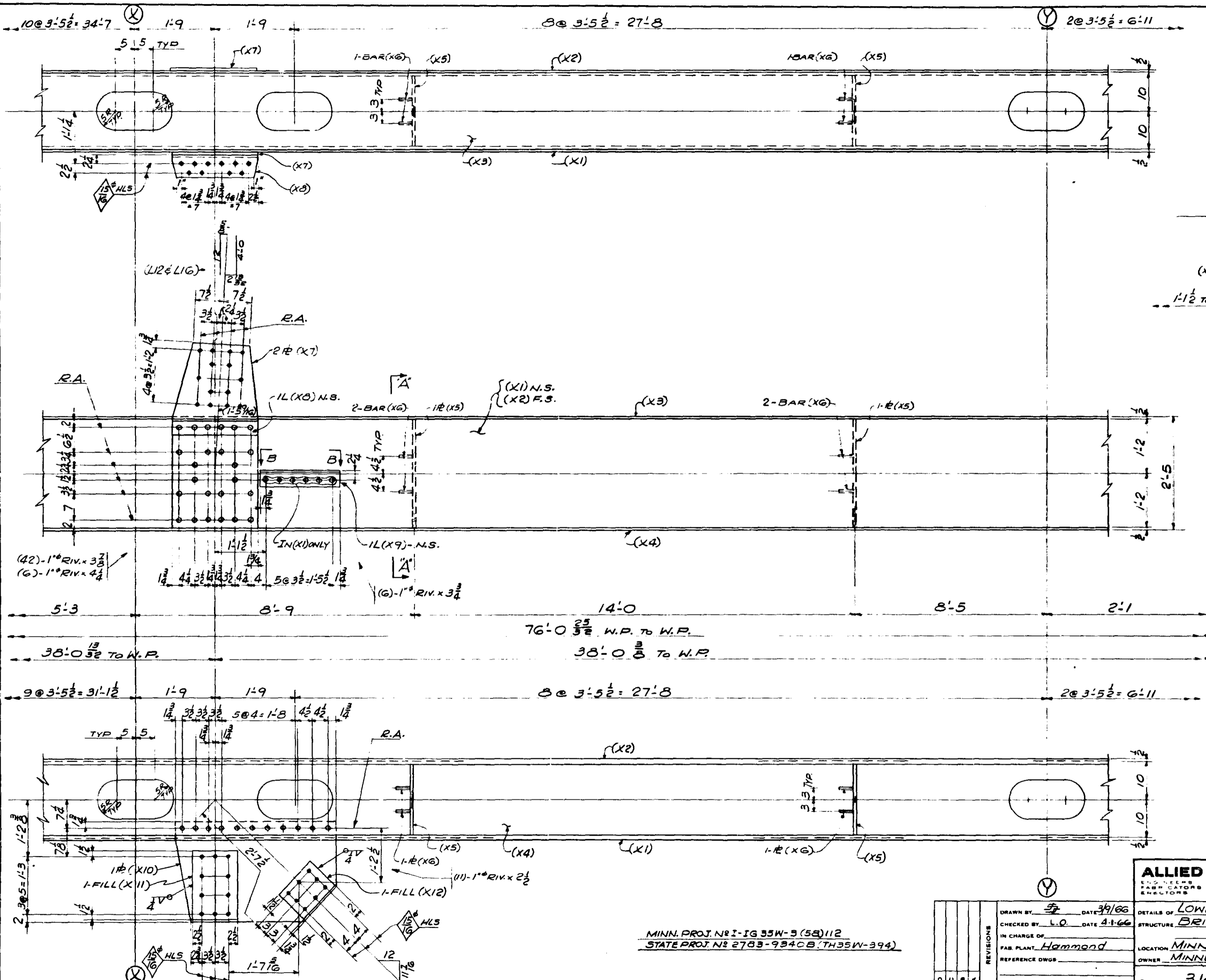
DRAWN BY: DATE: 3/10/66
 CHECKED BY: L.O. DATE: 4-1-66
 IN CHARGE OF:
 FAB. PLANT: Hammond
 REFERENCE DWGS:

ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS, FABRICATORS, ERECTORS
 1425 LEWIS STREET, MINNEAPOLIS, MINN. 55404

DETAILS OF: LOWER CHORDS (L11-L13) & (L17-L15)
 STRUCTURE: BRIDGE NO 9340

LOCATION: MINNEAPOLIS, MINNESOTA
 OWNER: MINNESOTA STATE HWY DEPT

CONTRACT: 3142 DIV: 18 FABCOD: 215 SHEET: 1609AC



(42)-1" RIV. x 3 3/8"
 (6)-1" RIV. x 4 1/4"

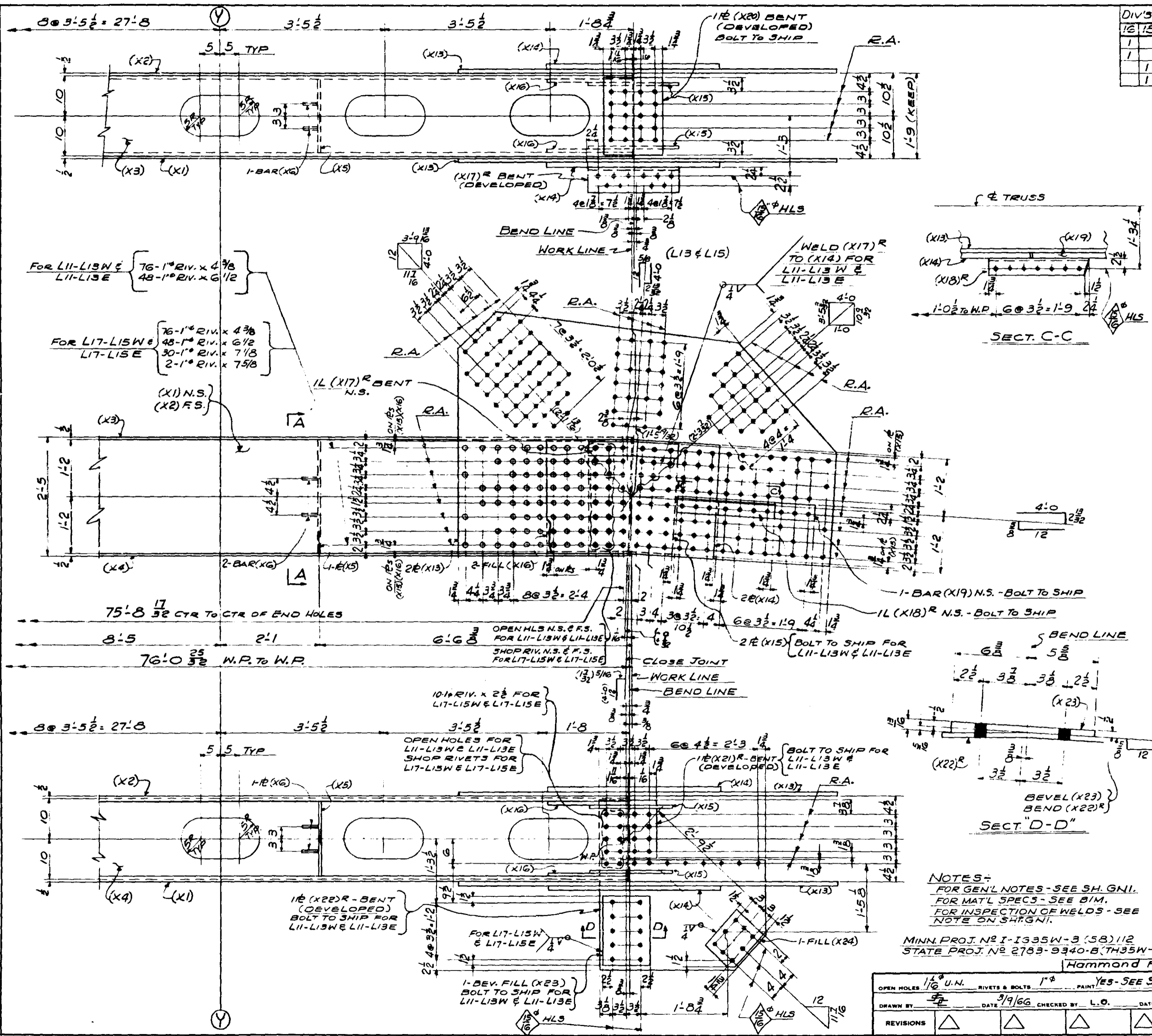
MINN. PROJ. NO. 2-IG 35W-3 (58)112
 STATE PROJ. NO. 2783-934CB (TH35W-394)

NO.	REVISIONS

DRAWN BY SP DATE 3/9/66
 CHECKED BY L.O. DATE 4-1-66
 IN CHARGE OF
 FAB. PLANT Hammond
 REFERENCE DWGS

ALLIED STRUCTURAL STEEL COMPANY
 1110 15TH STREET S.W. MINNEAPOLIS, MINN. 55404

DETAILS OF LOWER CHORDS (L11-L13) & (L17-L15)
 STRUCTURE BRIDGE NO. 9340
 LOCATION MINNEAPOLIS, MINNESOTA
 OWNER MINNESOTA STATE HWY DEPT
 CONTRACT 3142 DIV 18 FABCOD 215 SHEET 1609BC



DIV'S	LINE	SHIP MK	NO	SHAPE	LENGTH	PC MK	REMARKS	ITEM NO	TOTAL WEIGHT
1	2			ONE LOWER CHORD - 1609 (LII-LIIE) (AS SHOWN)					
1	3			ONE DO - 1609 (LII-LIIE) (OPPOSITE)					
1	4			ONE DO - 1609 (LII-LIIE) (OPPOSITE)					
1	5			ONE DO - 1609 (LII-LIIE) (AS SHOWN)					
6									
7				4 R 28 x 1 7/8	76.134	X1		5702	60
8				4 R 28 x 1 7/8	76.134	X2		5702	60
9				4 R 20 x 1/2	76.134	X3		5702	61
10				4 R 20 x 1/2	75.118	X4		5702	61
11				24 R 18 1/2 x 3/8	2.9	X5		5721	59
12				192 BAR 3/8 x 3/8	0.378	X6		5722	59
13				8 R 22 1/2 x 1/2	4.0	X7		5715	59
14				4 L 6 x 4 x 3/8	1.104	X8		3716	59
15				4 L 4 x 4 x 3/8	1.9	X9		3717	59
16				4 R 25 1/8 x 3/8	3.7	X10		3718	59
17				4 R 18 x 1/2	1.6	X11		3719	59
18				4 R 9 x 1/2	1.0	X12		3720	59
19				3 R 62 1/4 x 1	7.104	X13		3704	60
20				8 R 29 1/2 x 1 1/4	3.718	X14		3705	60
21				8 R 28 1/2 x 3/8	1.104	X15		3706	61
22				8 R 27 1/2 x 1/4	1.918	X16		3707	61
23				4 L 6 x 4 x 3/8	1.104	X17	BENT	3713	59
24				4 L 4 x 4 x 3/8	2.1	X18		3712	59
25				4 BAR 4 x 1 1/4	2.0	X19		3714	59
26				4 R 19 x 3/8	1.2	X20	BENT	3708	61
27				4 R 14 1/4 x 1/2	1.2	X21	BENT	3709	61
28				4 R 27 1/2 x 3/8	3.5	X22	BENT	3710	61
29				4 BEV FILL 12 x 1/2	1.5	X23		3711	59
30				4 FILL 9 x 1/2	1.0	X24		3720	59
31									
32									
33									
34									
35									
36				4 3/16 WLD	304.3				NE
37				4 1/2 WLD	44.4				NE
38									
39				504 1" RIV.					NE
40				192 1" RIV.	0.612				do
41				60 1" RIV.	0.713				do
42				4 1" RIV.	0.758				do
43									
44				18 S.O.O. 1"					
45									
46									
47									
48									
49									
50									
51									
52									
53									
54									
55									
56				EID ITEM	59		4147		
57									
58					60		00315		
59					61		23209		
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NOTES:
 FOR GEN'L NOTES - SEE SH. GNI.
 FOR MAT'L SPECS - SEE BIM.
 FOR INSPECTION OF WELDS - SEE NOTE ON SH. GNI.

MINN. PROJ. NO. I-1335W-3 (58)112
 STATE PROJ. NO. 2783-9340-B (TH35W-394)
 Hammond Fab.

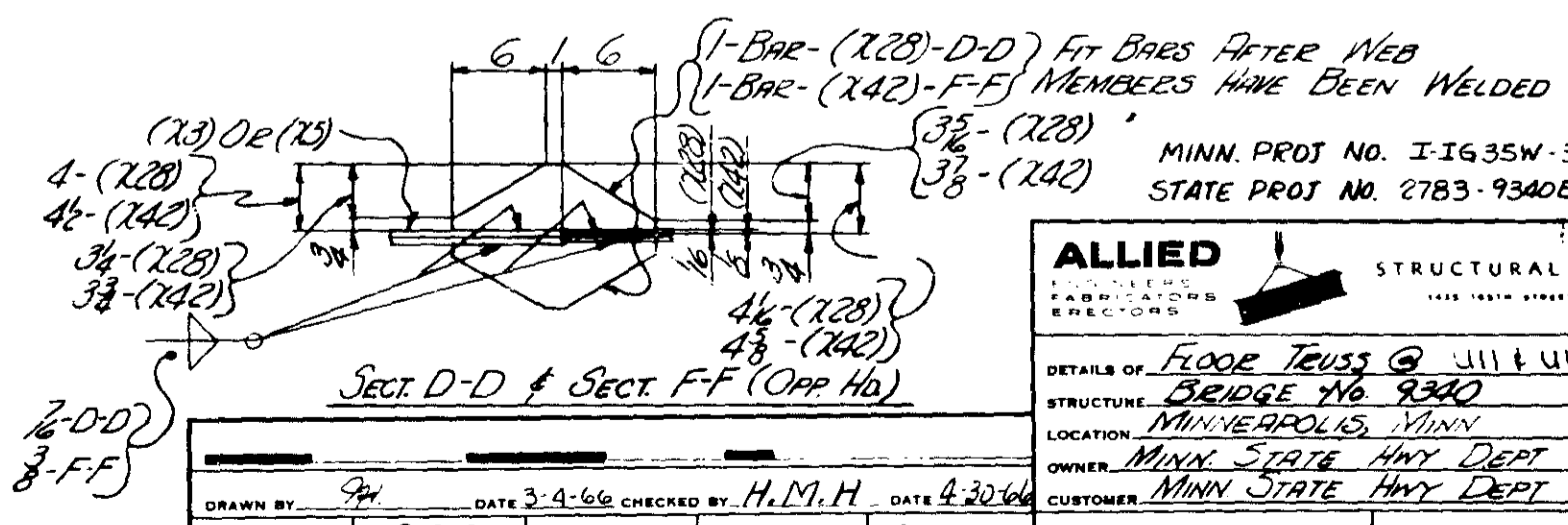
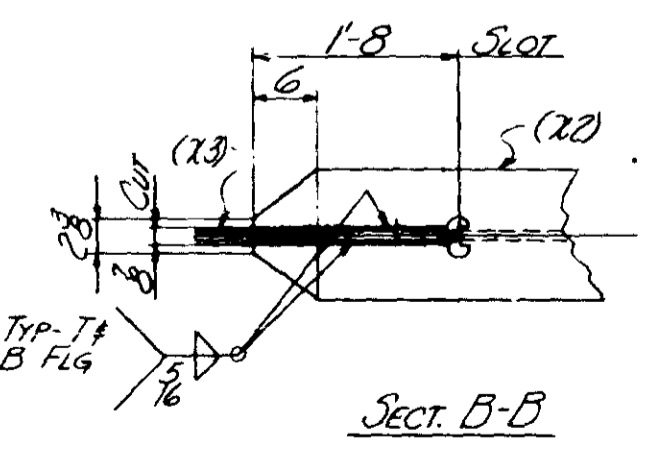
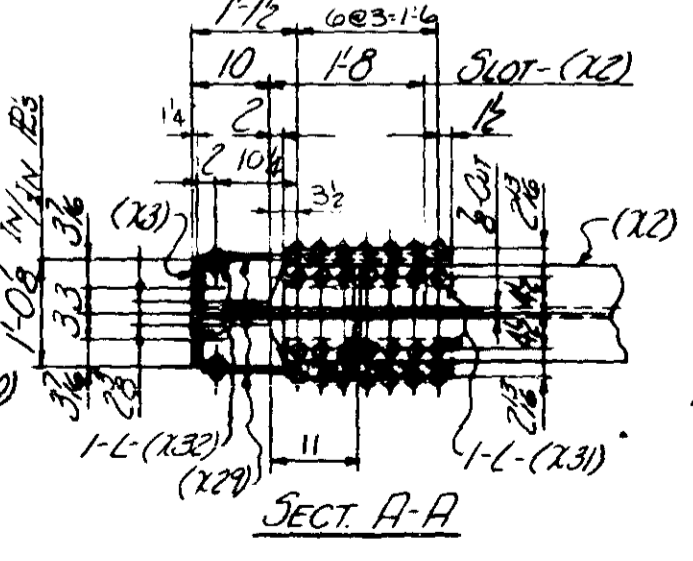
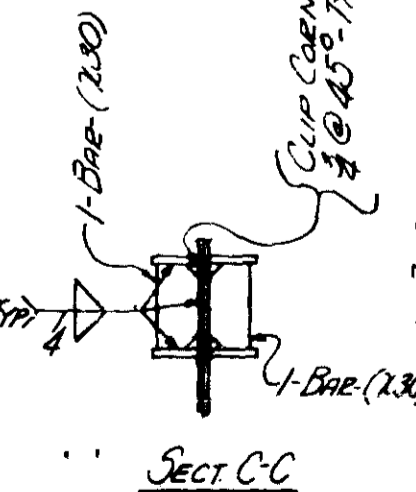
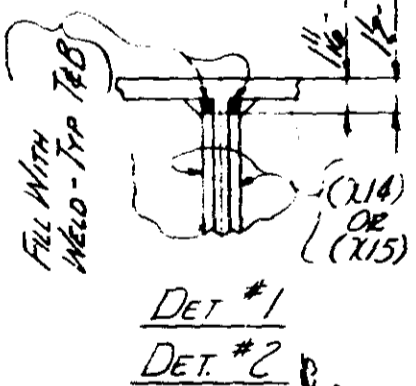
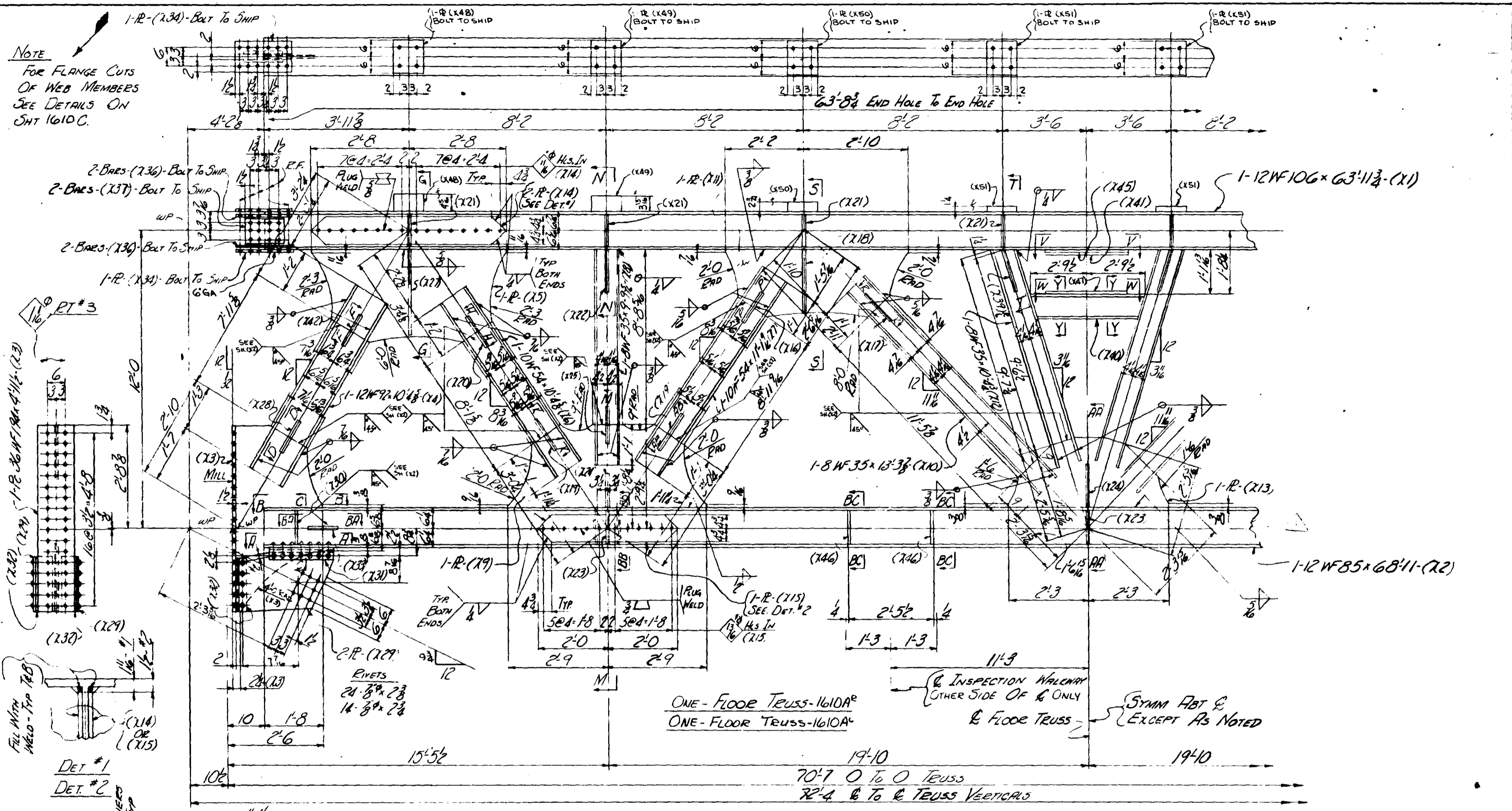
OPEN HOLES	1/8" U.N.	RIVETS & BOLTS	1"	PAINT	YES - SEE SH. GNI
DRAWN BY	3/9/66	CHECKED BY	L.O.	DATE	4-1-66
REVISIONS	△	△	△	△	

ALLIED STRUCTURAL STEEL COMPANY
 1225 WEST STREET, MINNEAPOLIS, MINNESOTA

DETAILS OF LOWER CHORDS (LII-LIIE) & (LII-LIIE)
 BRIDGE NO. 9340
 LOCATION: MINNEAPOLIS, MINNESOTA
 OWNER: MINNESOTA STATE HWY DEPT
 CUSTOMER: MINNESOTA STATE HWY DEPT

CONTRACT 3142 FABCOD 215 SHEET 1609C

NOTE
FOR FLANGE CUTS
OF WEB MEMBERS
SEE DETAILS ON
SHT 1610C.



ONE-FLOOR TRUSS-1610A
ONE-FLOOR TRUSS-1610A

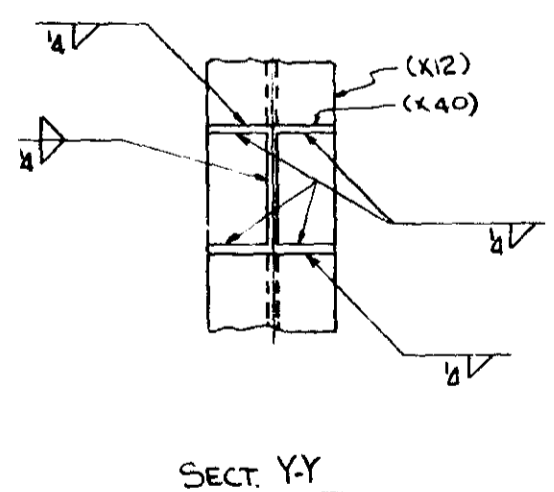
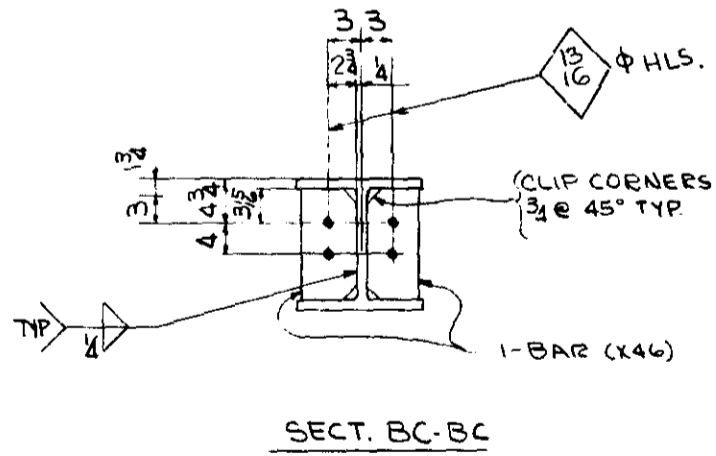
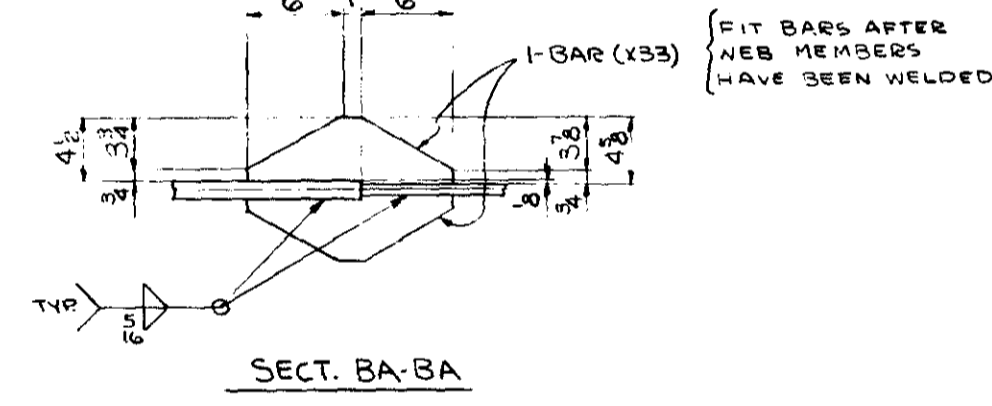
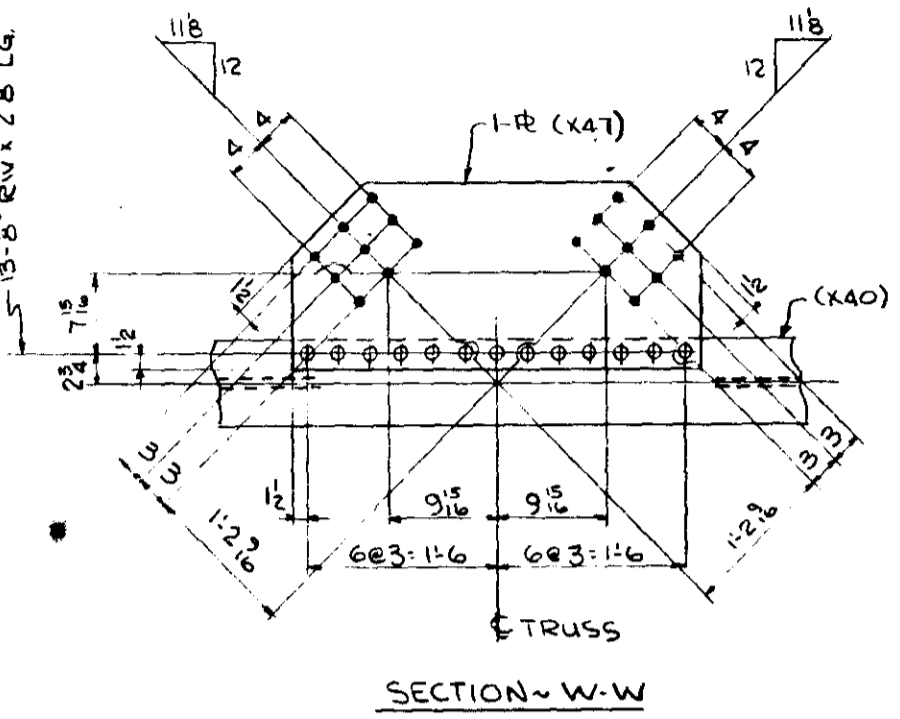
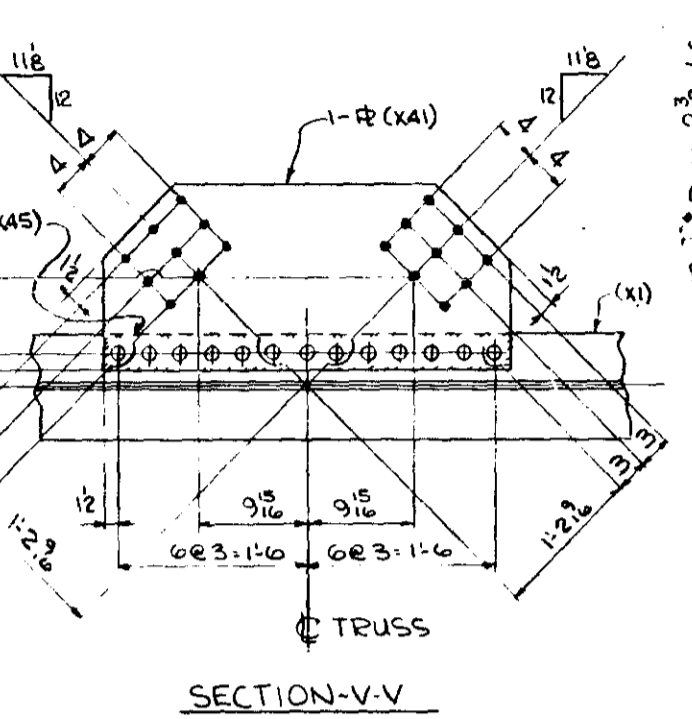
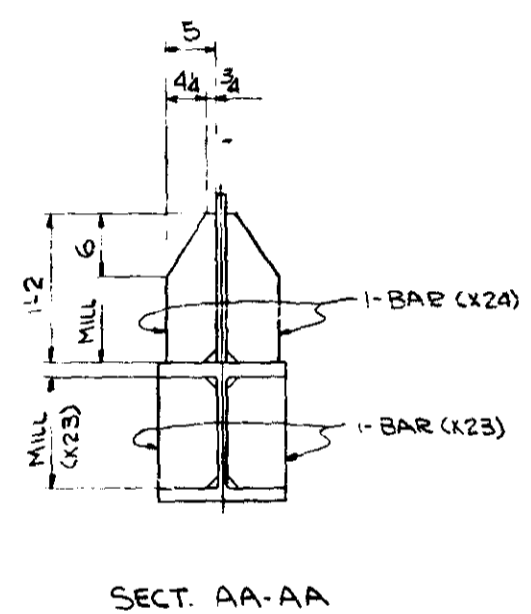
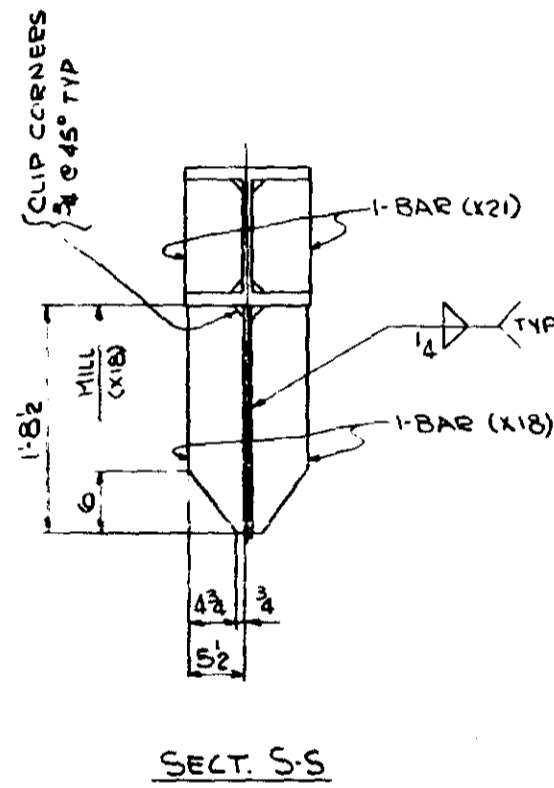
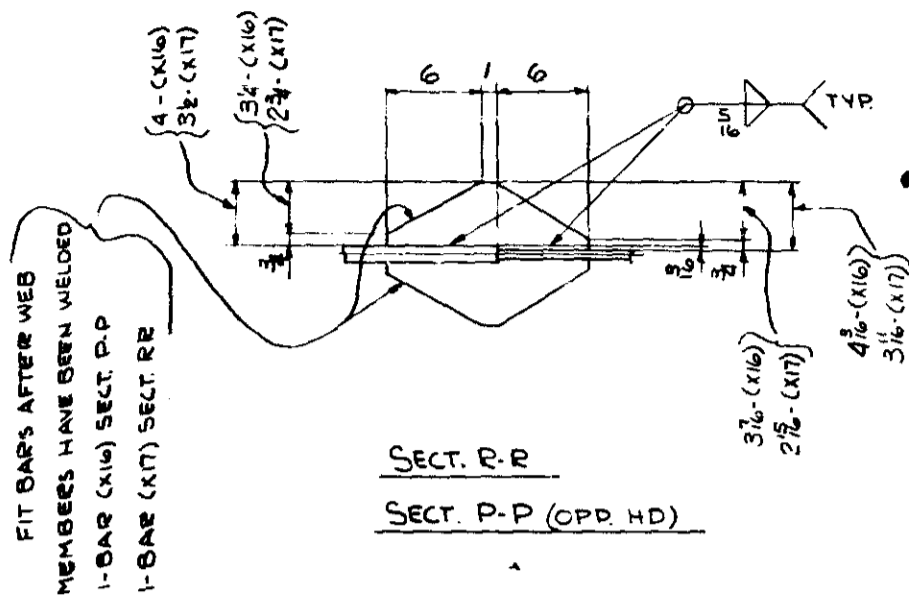
INSPECTION WALKWAY
OTHER SIDE OF & ONLY
& FLOOR TRUSS
SYMM. FBT &
EXCEPT AS NOTED

70'-7\"/>

MINN. PROJ. NO. IIG35W-3(SB)112
STATE PROJ. NO. 2783-9340B (TH35W-394)

ALLIED FABRIICATIONS STRUCTURAL STEEL COMPANY	
DETAILS OF FLOOR TRUSS @ J11 & U17	
STRUCTURE: BRIDGE #6 9340	
LOCATION: MINNEAPOLIS, MINN.	
OWNER: MINN. STATE HWY DEPT	
CUSTOMER: MINN. STATE HWY DEPT	
CONTRACT: 3142	FABCOD: 244
SHEET 1610 AC	

DRAWN BY: JH	DATE: 3-4-66	CHECKED BY: H.M.H.	DATE: 4-30-66
REVISIONS:	2-16-61		
	KEM		

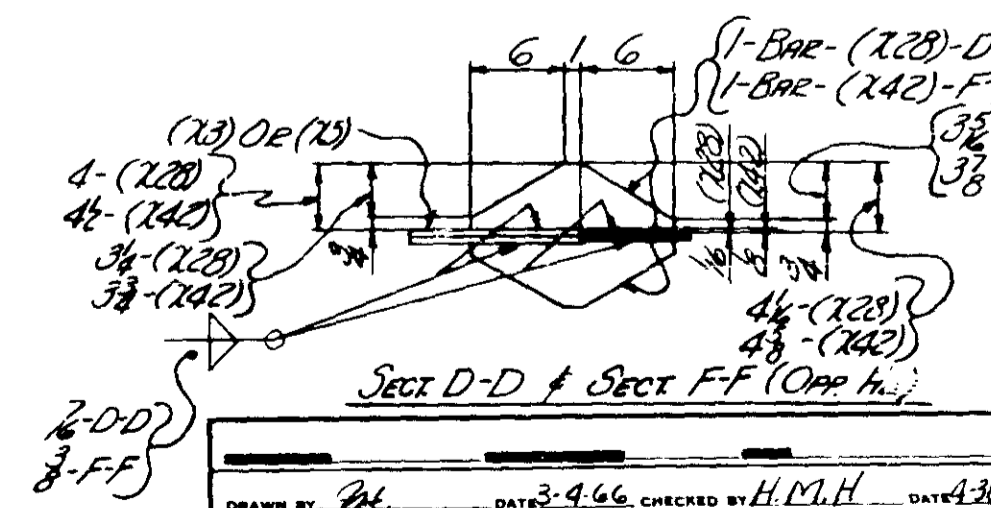
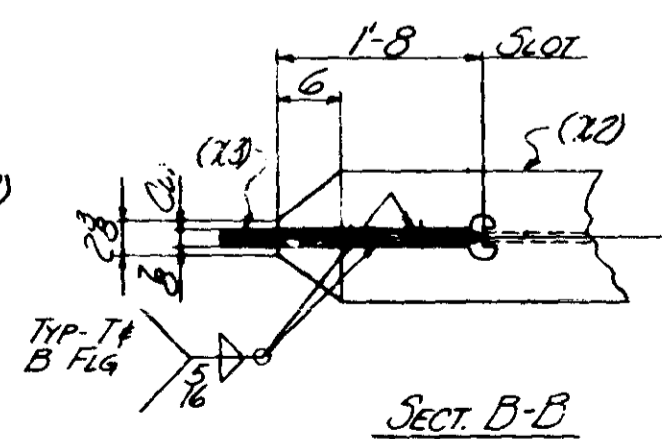
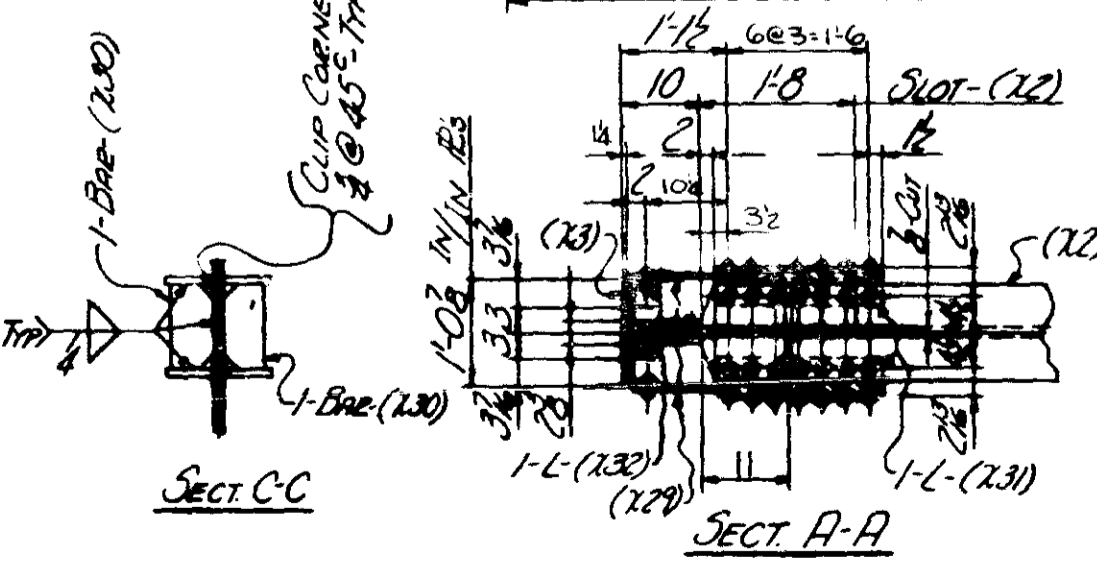
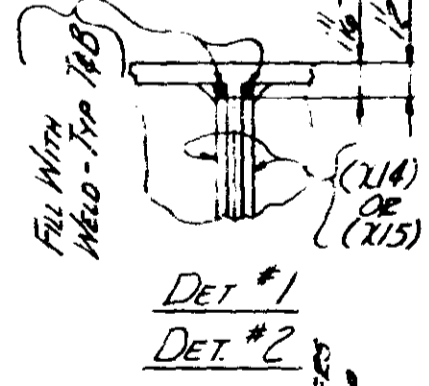
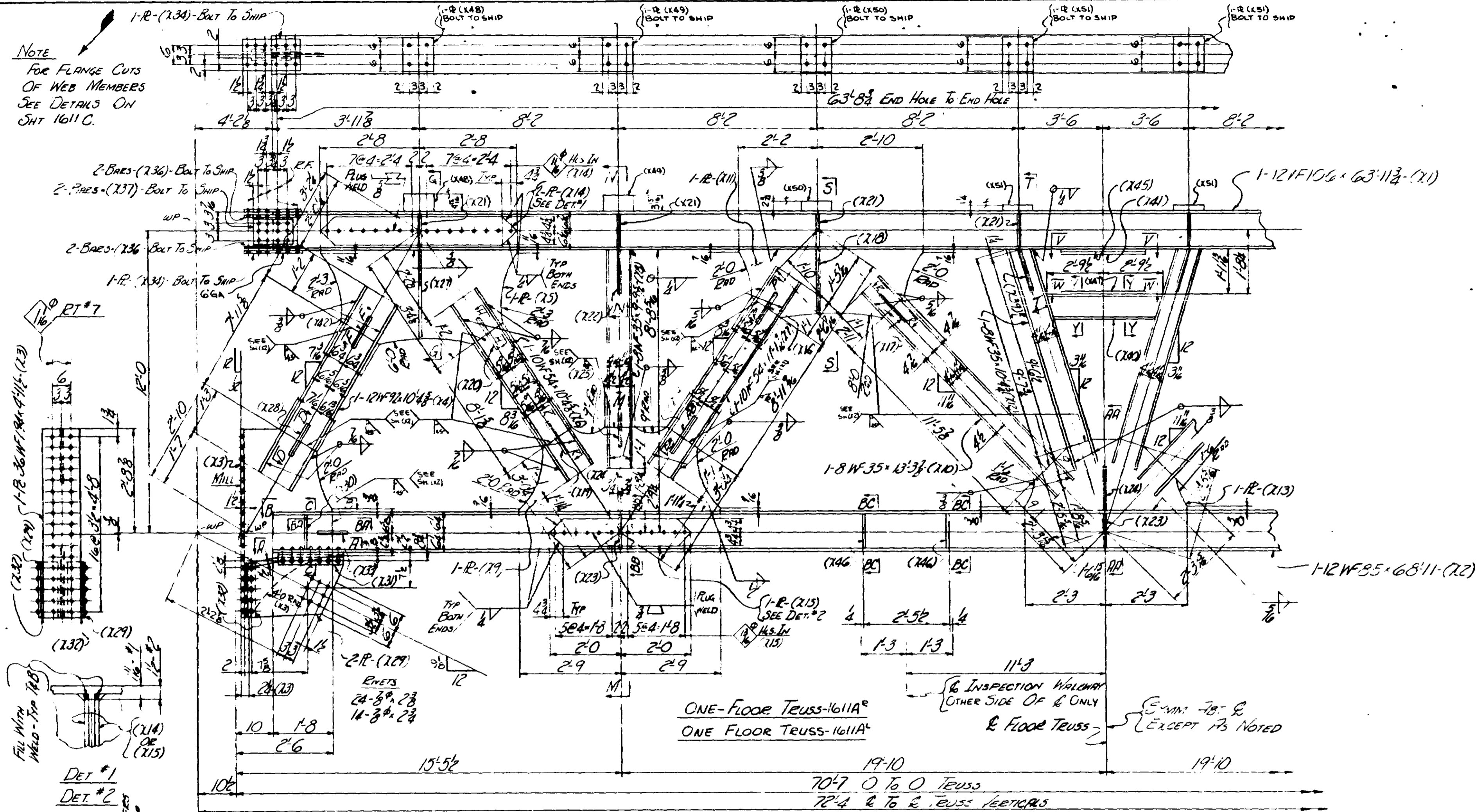


MINN. PROJ. N^o I-16 35W-3(5B)112
 STATE PROJ. N^o 2783-9340B (TH35W-394)

ALLIED <small>ENGINEERS FABRICATORS ERECTORS</small>		STRUCTURAL STEEL COMPANY <small>1222 15TH STREET, HARBOR, INDIANA 45743</small>	
DRAWN BY: <u>H.M.H.</u> DATE: <u>3-4-66</u>		DETAILS OF: <u>FLOOR TRUSS @ U11 # 417</u>	
CHECKED BY: <u>H.M.H.</u> DATE: <u>4-30-66</u>		STRUCTURE: <u>BRIDGE N^o 9340</u>	
IN CHARGE OF: <u>J. NEWELL</u>		LOCATION: <u>MINNEAPOLIS, MINNESOTA</u>	
FAB. PLANT: <u>QUINTON</u>		OWNER: <u>MINNESOTA STATE HWY. DEPT.</u>	
REFERENCE DWGS: <u>E12 & E13</u>		CONTRACT: <u>3142</u>	
DIVISION: <u>16 #18</u>		FAB. CODE: <u>24+</u>	
SHEET: <u>1610 BC</u>			

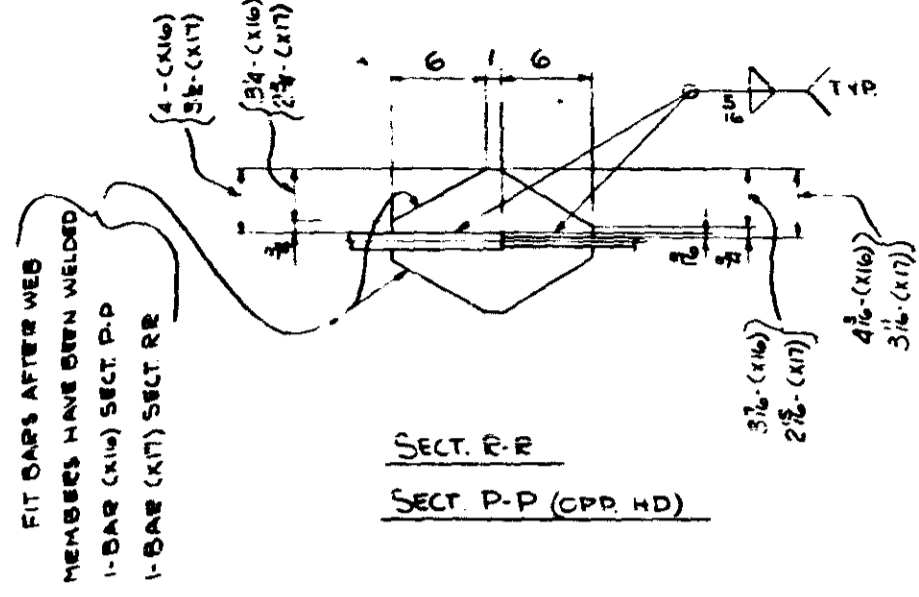
REVISIONS	
Q	U
U	U
U	U
U	U

NOTE
FOR FLANGE CUTS
OF WEB MEMBERS
SEE DETAILS ON
SHT 1611 C.

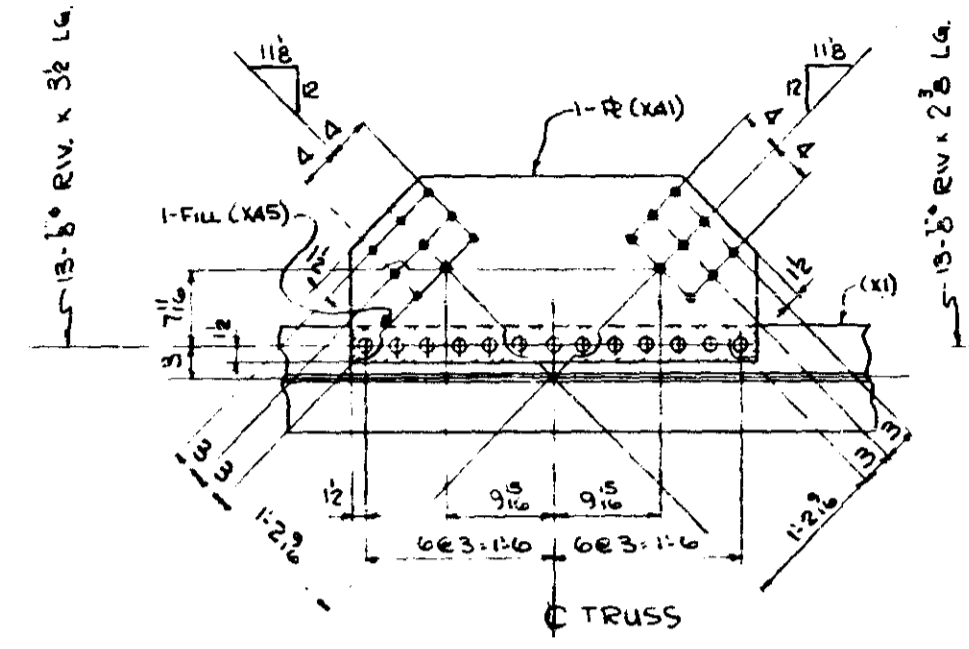


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STATE PROJ. NO. 2183-93408 (TH35W-294)

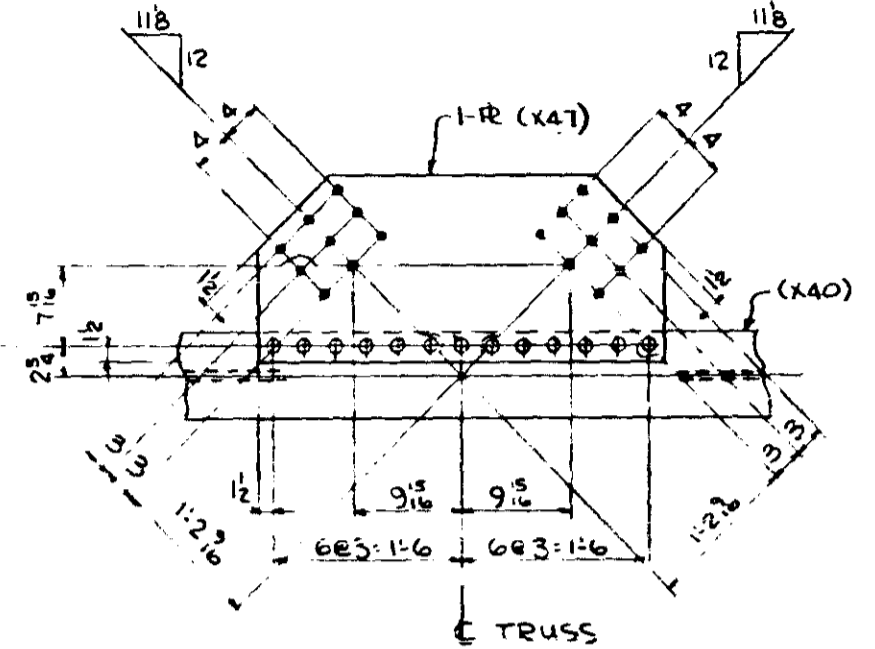
ALLIED		STRUCTURAL STEEL COMPANY	
1212 12TH STREET MINNEAPOLIS, MINN.			
DETAILS OF FLOOR TRUSS @ U12 & U16			
STRUCTURE: BRIDGE No. 9340			
LOCATION: MINNEAPOLIS, MINN.			
OWNER: MINN. STATE ARMY DEPT.			
CUSTOMER: MINN. STATE ARMY DEPT.			
DRAWN BY: JH	DATE: 3-4-66	CHECKED BY: H.M.H.	DATE: 4-30-66
REVISIONS	REVISIONS	REVISIONS	REVISIONS
1-18-68	REM		
CONTRACT	3142	FABCODE	244
SHEET	1611	AC	



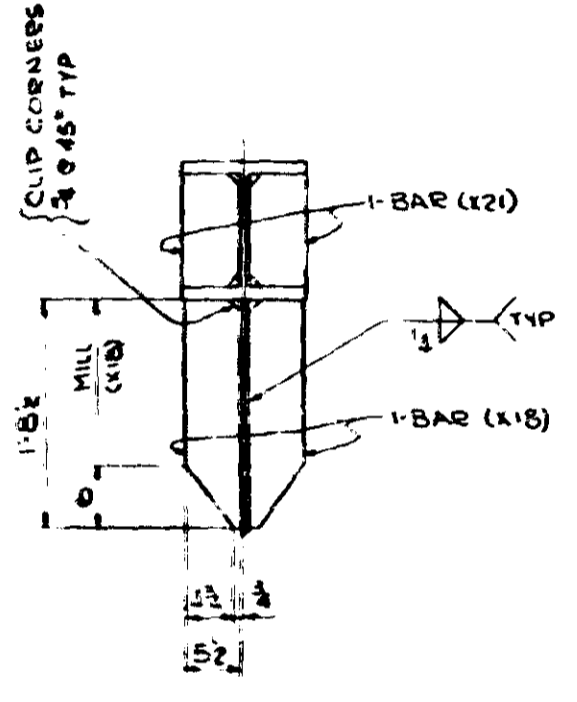
SECT. P-P
SECT. P-P (COPY HD)



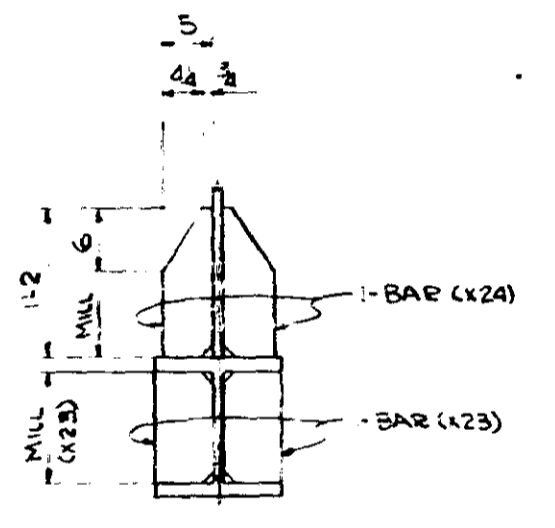
SECTION-V-V



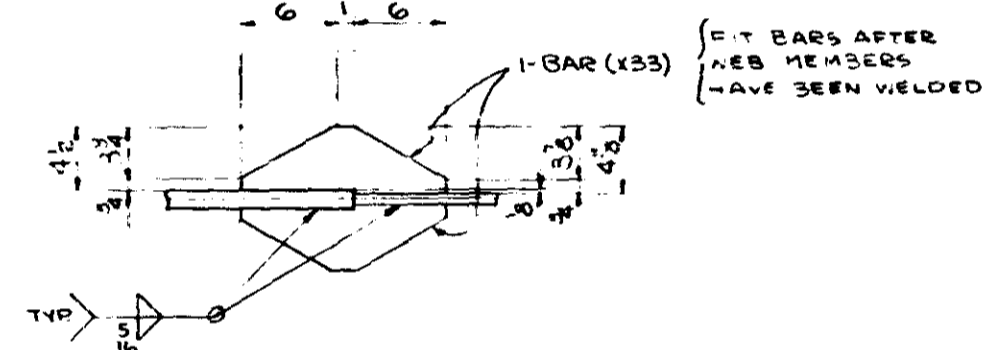
SECTION-W-W



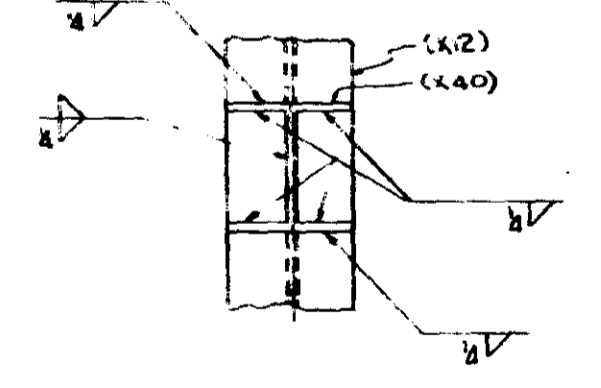
SECT. S-S



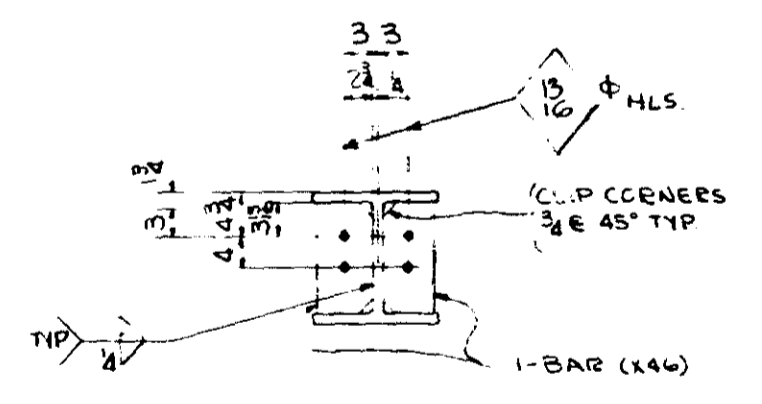
SECT. AA-AA



SECT. BA-BA



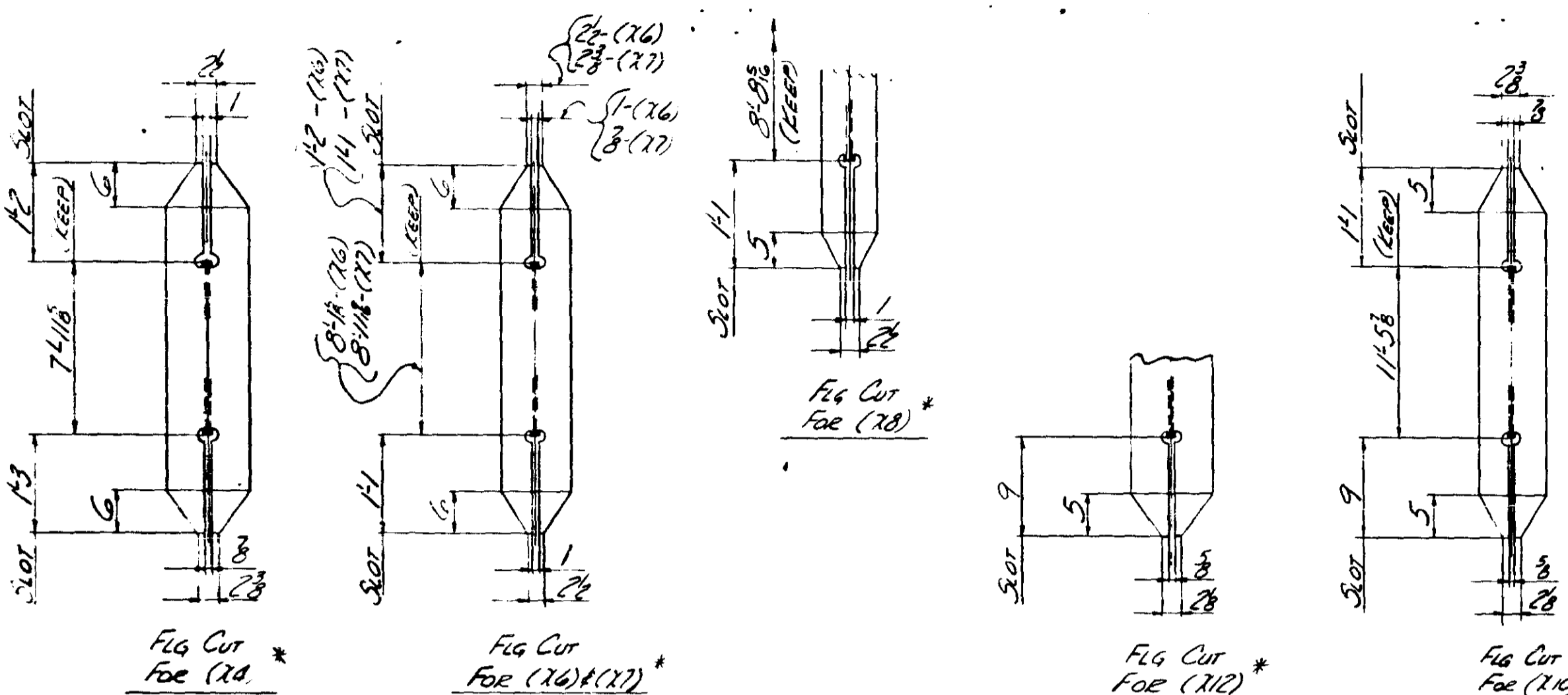
SECT. YY



SECT. BC-BC

MINN PROJ N° I-1635W-3(58)112
STATE PROJ N° 2783-93408 (TH.35W.394)

ALLIED STRUCTURAL STEEL COMPANY FABRICATORS ERECTORS		1235 W. 19TH STREET, MINNEAPOLIS, MINN.	
DRAWN BY: JH DATE: 3-4-66		DETAILS OF: FLOOR TRUSS @ U12 + U16	
CHECKED BY: H.M.H. DATE: 4-30-66		STRUCTURE: BRIDGE N° 9340	
IN CHARGE OF: J. NEWELL		LOCATION: MINNEAPOLIS, MINNESOTA	
FAB PLANT: ST. LOUIS		OWNER: MINNESOTA STATE HWY. DEPT.	
REFERENCE DWGS: E12 & E13		CONTRACT: 3142	
REVISIONS		DIV: 16418	
0		FABCOD: 244	
U		SHEET: 1611 BC	
B			
C			

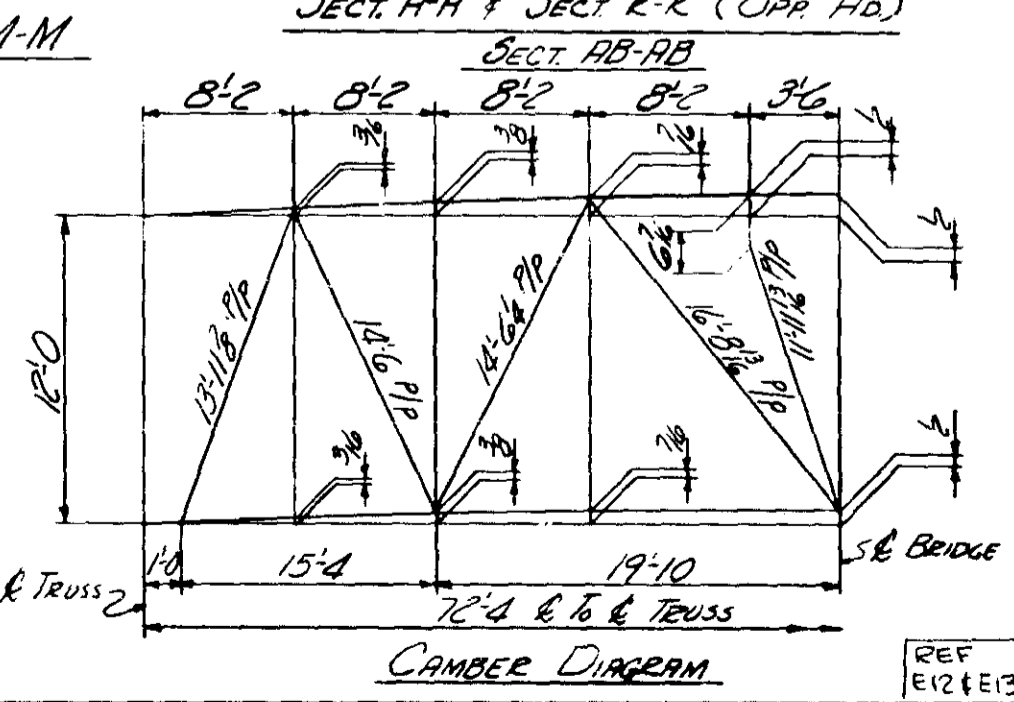
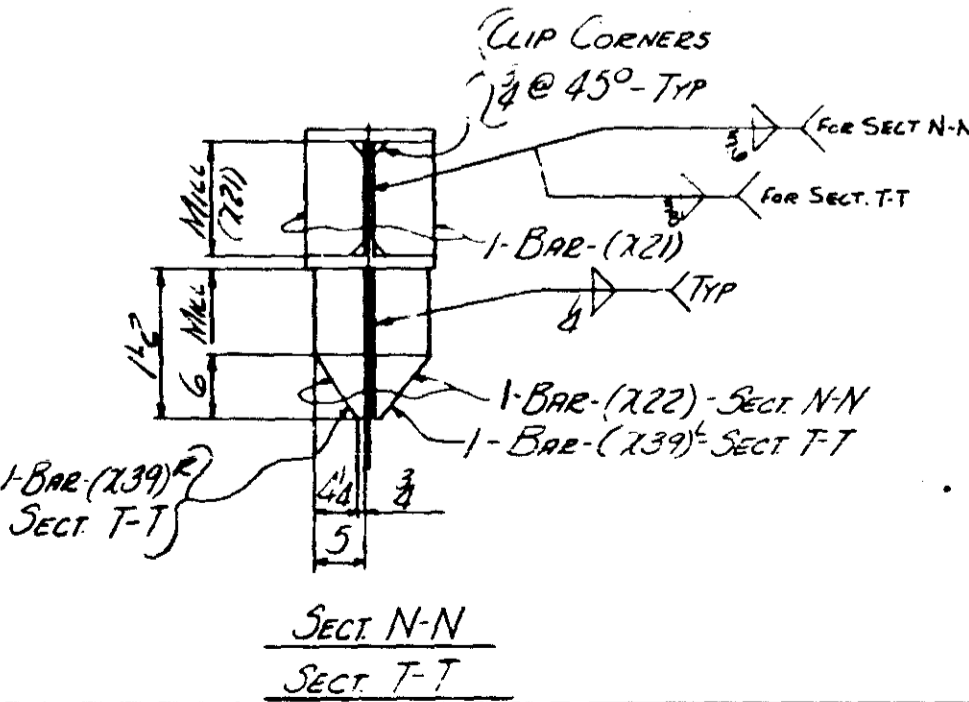
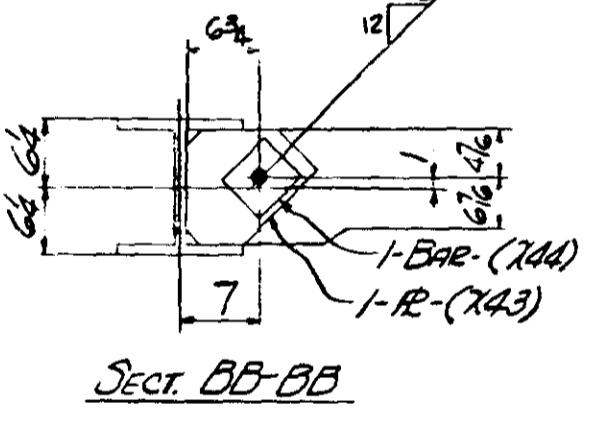
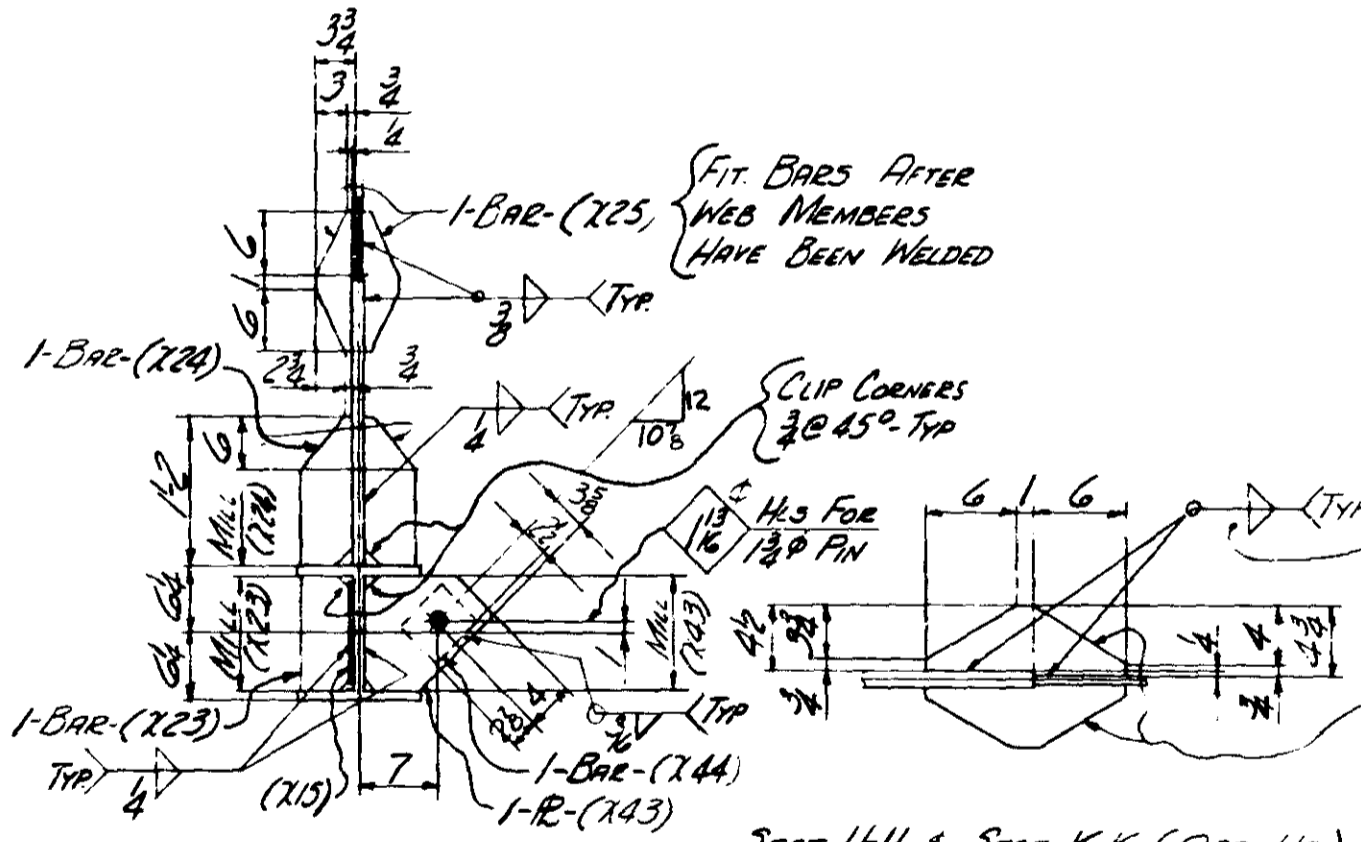
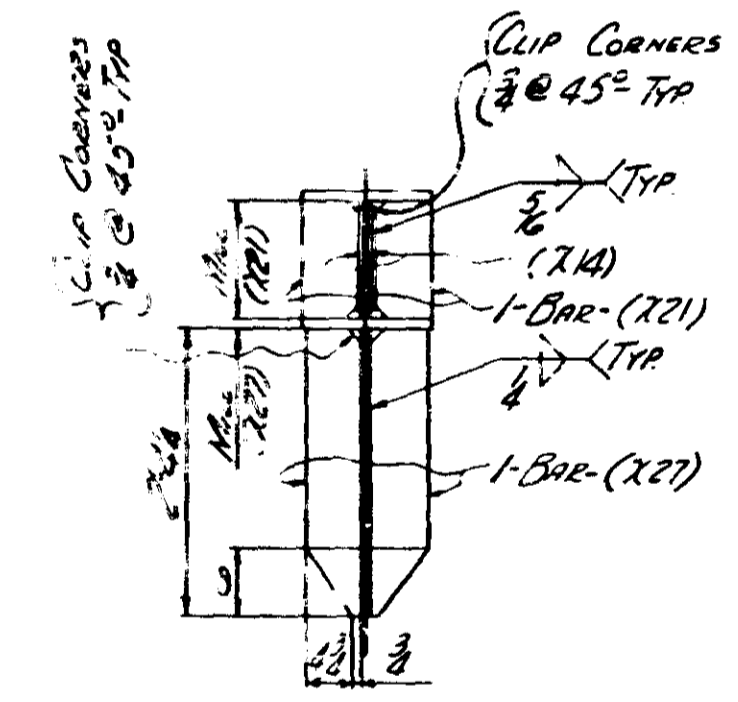


LINE	SHIP NO	NO REQD	SHAPE	LENGTH	TOTAL WEIGHT
72	2	2	1/2 WLD	7 1/2	NC
73	2	1	1/2 WLD	133	4
74	2	2	3/8 WLD	252	6
75	2	2	3/8 WLD	195	10
76	2	2	1/2 WLD	82	0
77	2	2	1/2 WLD	22	0
78	2	2	3/8 WLD	21	4
79	2	2	3/4 WLD	3	48

BID ITEM 59-49673

NO REQD	LENGTH	WEIGHT
122	2 1/2	NC
56	2 1/2	
26	3 1/2	

* SEE SHTS XI & XII FOR BEVEL CUTS FOR WELDING



SHOP NOTE
 1. FOR GEN NOTES SEE SH. GNI
 2. FOR MATL SPECS SEE BILL OF MATL
 3. FOR XRAY IDENT. NO SEE SH. WI
 4. FOR INSPECTION OF WELDS SEE NOTE ON SH. GNI
 5. FOR SHOP WELDING SEQ OF WEB MEMBERS SEE DEWG (X1)

MINN PROJ No I-1635W-3(58)112
 STATE PROJ No 2783-9340B(TH35W-39A)

LINE	SHIP NO	NO REQD	SHAPE	LENGTH	PC	REMARKS	ITEM NO	TOTAL WEIGHT
1	1	1	ONE FLOOR TRUSS					
2	2	2	12W106	63 1/2	21	SEE SH. GNI	59	3306
3	2	2	12W106	28 0		PAY WT FOR		5936
4	2	2	12W65	17 1/8		LINE 3		4677
5	2	2	12W85	68 1/2	22	SEE SH. GNI		7763
6	2	2	12W85	45 8		PAY WT FOR		3023
7	2	2	12W65	11 7/8		LINE 6		3848
8	4	4	PL 3/8 W 194	4 1/2	13	M. FLG		3822
9	4	4	12W92	10 4/8	14			1909
10	4	4	R 30 x 3	5 4	15			2243
11	4	4	10W54	10 4/8	16			2404
12	4	4	10W54	11 1/8	17			1369
13	4	4	8W35	9 9/8	18			1767
14	4	4	R 27 x 3	5 6	19			1865
15	4	4	8W35	13 3/8	20			1122
16	4	4	R 27 x 3	5 0	21			1455
17	4	4	8W35	10 4/8	22			352
18	2	2	R 23 x 3	4 6	23			430
19	2	2	R 9 x 3	5 4	24			194
20	4	4	R 9 x 3	4 0	25			
21	8	8	BAR 4 1/2 x 1/2	1 1/2	26	SEE SH. GNI		44
22	1	1	BAR 4 1/2 x 1/2	6 2	27	SEE SH. GNI		
23	1	1	BAR 3 1/2 x 3/8	1 1	28	SEE SH. GNI		30
24	1	1	BAR 3 1/2 x 3/8	6 4 1/2	29	SEE SH. GNI		
25	8	8	BAR 5/8 x 3/8	1 8 1/2	30	SEE SH. GNI		116
26	4	4	BAR 5/8 x 3/8	3 1 1/2	31	SEE SH. GNI		
27	16	16	BAR 4 3/8 x 3/8	1 1	32	SEE SH. GNI		142
28	1	1	BAR 4 3/8 x 3/8	11 8 1/2	33	SEE SH. GNI		
29	8	8	BAR 4 3/8 x 3/8	1 1	34	SEE SH. GNI		86
30	1	1	BAR 4 3/8 x 3/8	6 1	35	SEE SH. GNI		
31	32	32	BAR 5/8 x 3/8	0 10 1/2	36	SEE SH. GNI		271
32	4	4	BAR 5/8 x 3/8	1 2	37	SEE SH. GNI		
33	4	4	BAR 5/8 x 3/8	1 1 1/4	38	SEE SH. GNI		66
34	8	8	BAR 5/8 x 3/8	0 10 1/2	39	SEE SH. GNI		51
35	12	12	BAR 5/8 x 3/8	1 2	40	SEE SH. GNI		
36	6	6	BAR 5/8 x 3/8	1 1 1/4	41	SEE SH. GNI		99
37	8	8	BAR 3 1/2 x 3/8	1 1	42	SEE SH. GNI		31
38	1	1	BAR 3 1/2 x 3/8	6 6	43	SEE SH. GNI		
39	8	8	BAR 5/8 x 3/8	2 4 1/2	44	SEE SH. GNI		163
40	4	4	BAR 5/8 x 3/8	4 4 1/2	45	SEE SH. GNI		
41	8	8	BAR 4 1/2 x 1/2	1 1	46	SEE SH. GNI		49
42	1	1	BAR 4 1/2 x 1/2	6 5 1/2	47	SEE SH. GNI		
43	8	8	R 19 x 3	2 7 1/2	48	SEE SH. GNI		286
44	8	8	BAR 5/8 x 3/8	0 10 1/2	49	SEE SH. GNI		51
45	8	8	L 4 x 4 x 3/8	1 9	50	SEE SH. GNI		137
46	8	8	L 5 x 3 1/2 x 3/8	1 5 1/2	51	SEE SH. GNI		121
47	8	8	BAR 4 3/8 x 3/8	1 1	52	SEE SH. GNI		
48	8	8	R 10 x 3	1 6 1/2	53	SEE SH. GNI		237
49	16	16	BAR 4 1/2 x 1/2	1 2 1/2	54	SEE SH. GNI		129
50	8	8	R 9 x 3	1 0 1/2	55	SEE SH. GNI		94
51	8	8	BAR 5/8 x 3/8	1 2	56	SEE SH. GNI		
52	4	4	BAR 5/8 x 3/8	1 1 1/4	57	SEE SH. GNI		66
53	2	2	8W35	5 7	58	SEE SH. GNI		391
54	2	2	R 12 x 3	3 3	59	SEE SH. GNI		149
55	8	8	BAR 4 3/8 x 3/8	1 1	60	SEE SH. GNI		
56	1	1	BAR 4 3/8 x 3/8	6 1	61	SEE SH. GNI		72
57	8	8	R 10 x 3	1 0 1/2	62	SEE SH. GNI		112
58	8	8	BAR 5/8 x 3/8	0 5 1/2	63	SEE SH. GNI		20
59	2	2	BAR 4 3/8 x 3/8	3 3	64	SEE SH. GNI		32
60	8	8	BAR 5/8 x 3/8	0 10 1/2	65	SEE SH. GNI		51
61	1	1	BAR 4 3/8 x 3/8	6 1	66	SEE SH. GNI		72
62	2	2	R 18 1/2 x 3	3 3	67	SEE SH. GNI		151
63	4	4	R 10 x 3 1/2	1 0	68	FIS		682
64	4	4	R 10 x 3 1/2	1 0	69	FIS		553
65	4	4	R 10 x 2 1/2	1 0	70	FIS		391
66	4	4	R 10 x 1 1/2	1 0	71	FIS		187
67	204	204	7/8" RIV					NC
68	72	72	5/8"					NC

ALLIED STRUCTURAL STEEL COMPANY

DETAILS OF FLOOR TRUSS @ U12 & U16
 BRIDGE No. 7340
 LOCATION: MINNEAPOLIS, MINN
 OWNER: MINN. STATE HWY. DEPT.
 CUSTOMER: MINN. STATE HWY. DEPT.

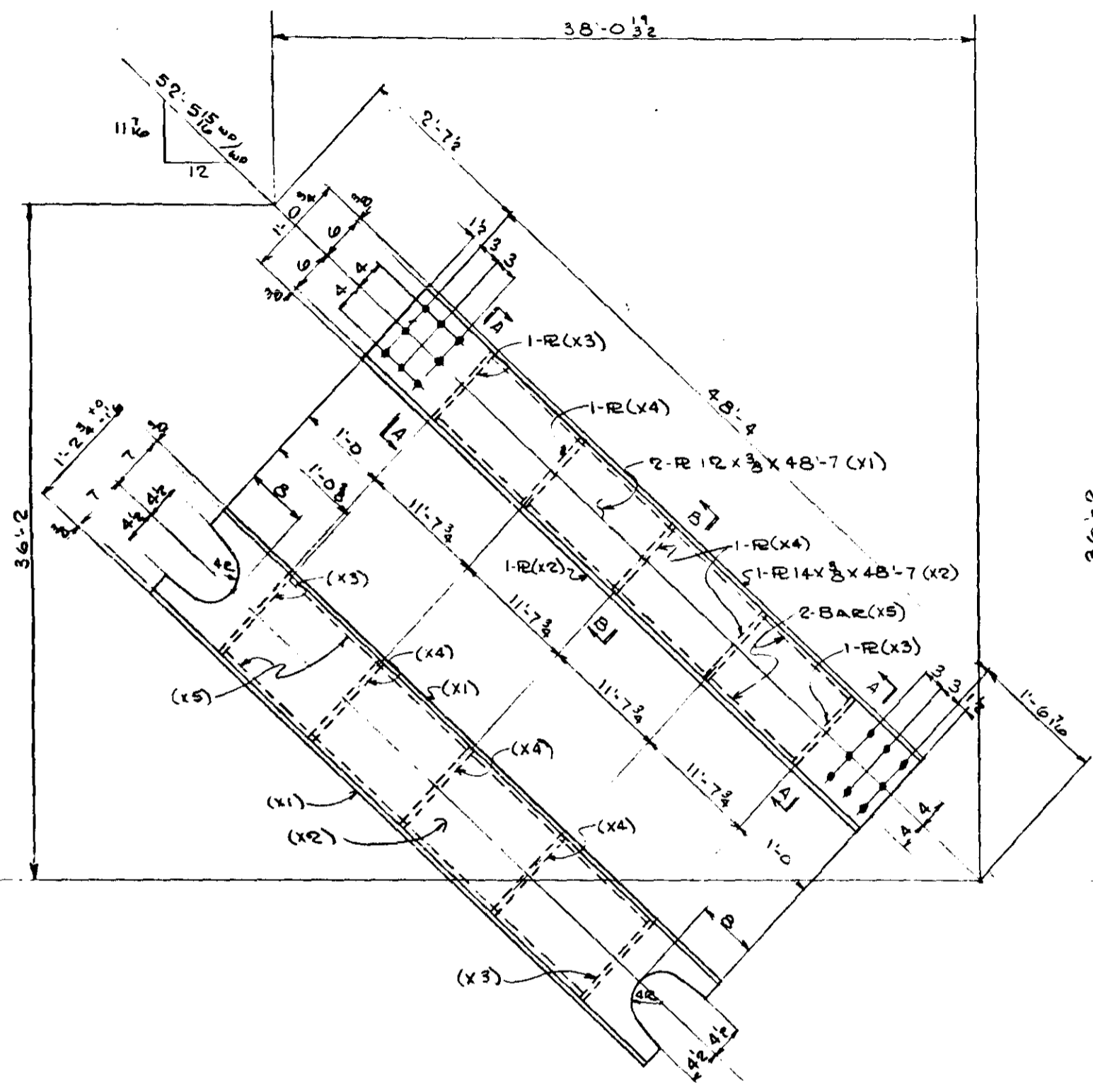
CLINTON - FAB DIVISION 1611B

OPEN HOLES: 1/8" UN. RIVETS & BOLTS 3/8" PAINT YES, SEE SH. GNI

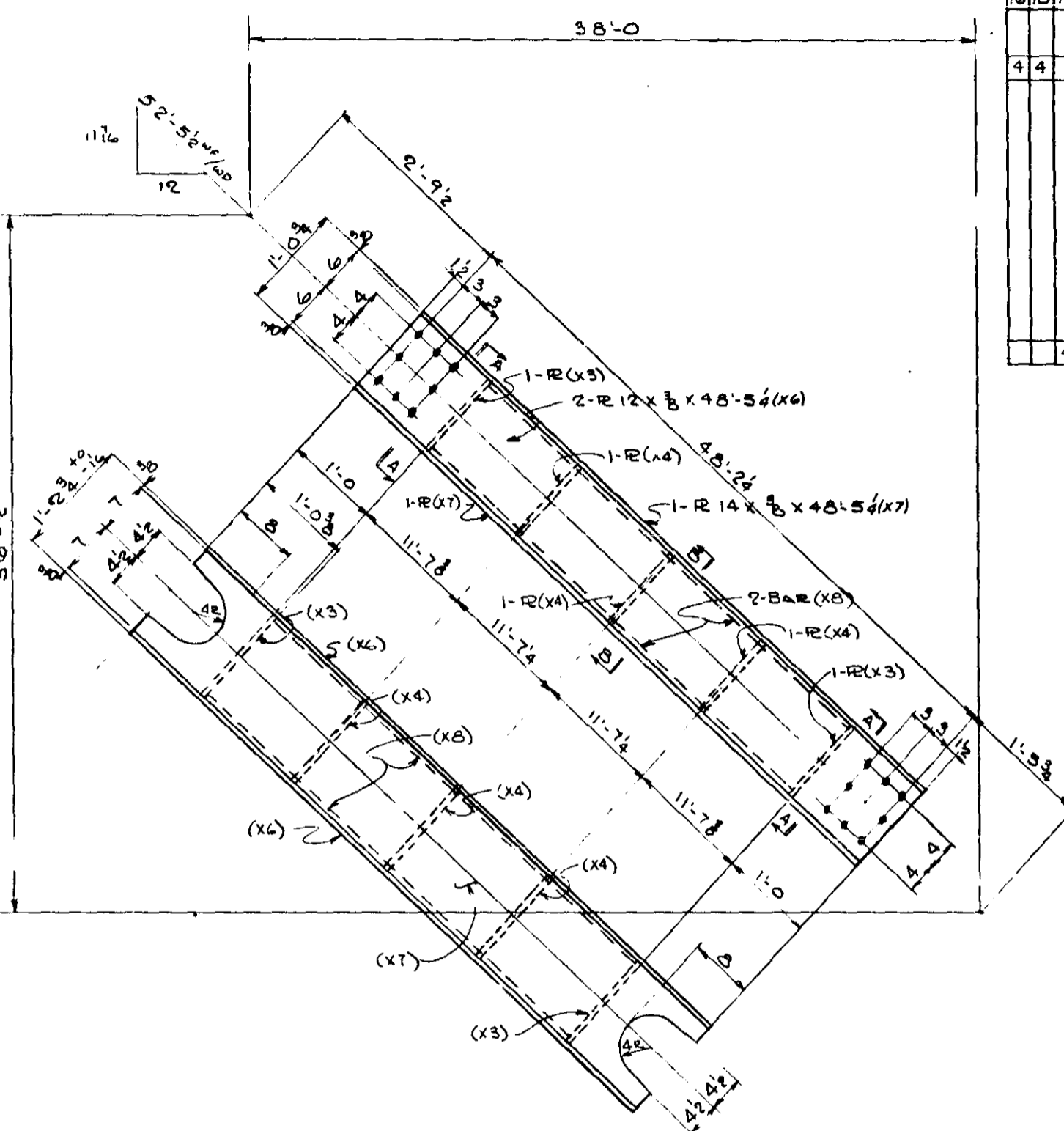
DRAWN BY: JH DATE: 3-4-66 CHECKED BY: H.M.H. DATE: 4-30-66

REVISIONS: 1. 2-18-67 E.C.M. 2. 3-4-66

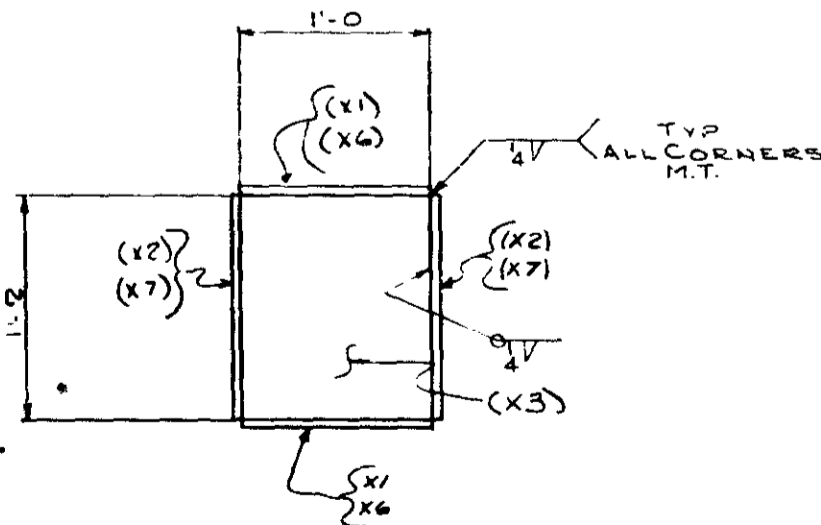
CONTRACT 3142 FABCOD 244 SHEET 1611 C



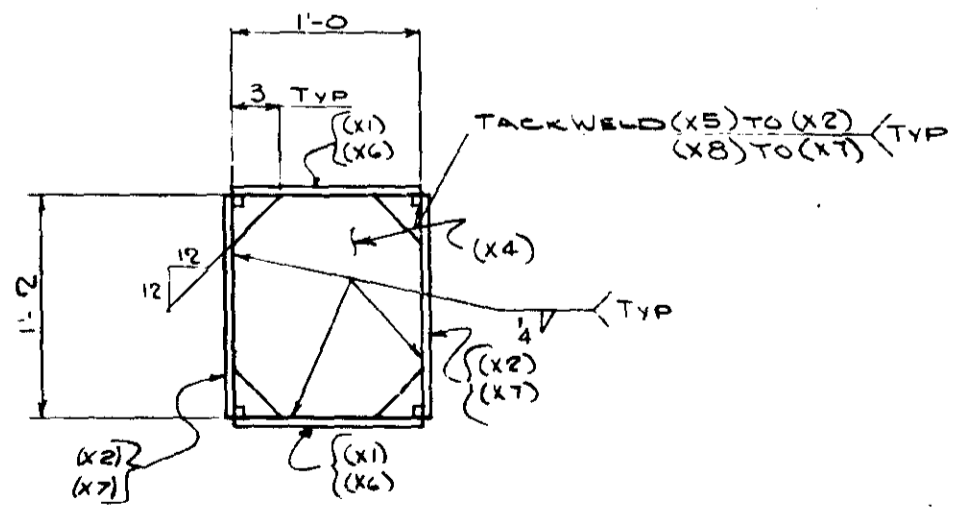
8-BOTTOM CHORD DIAGONALS-16/2A



4-BOTTOM CHORD DIAGONALS-16/2B



SECTION A-A



SECTION B-B

SHOP NOTE:
 FOR GEN. NOTES SEE GNI
 FOR MATL SPECS SEE BILL OF MATL
 FOR INSPECTION OF WELDS SEE NOTE
 ON SHT GNI

MINN. PROJ. NO. I-IG35W-3(58)112
 STATE PROJ. NO. 2783-9340B (TH 35W = 394)

HAMMOND FAB

OPEN HOLE 1 1/2" RIVETS & BOLTS PAINT. AS SHOWN
 DRAWN BY: [Signature] DATE: 5-2-66 CHECKED BY: L.D. DATE: 5-6-66

REVISIONS	△	△	△	△
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DIV.	ITEM	SHIP MK.	NO. REQ.	SHAPE	LENGTH	PC. MK.	REMARKS	ITEM NO.	TOTAL WEIGHT	PC. WT.
16/2B	1									
16/2B	2									
16/2B	3									
4	4	16/2A	8	BOTTOM CHORD DIAGONALS						
	5	16	R 12x3/8	48	7	X1		3702	59	11893
	6	16	R 14x3/8	48	7	X2		3703		13875
	7	16	R 12x3/8	1	2	X3		3704		286
	8	24	R 12x3/8	1	2	X4		3705		428
	9	32	BAR 3/8x3/8	46	64	X5		3706	59	715
	10		F.W. 2	208	6					NC

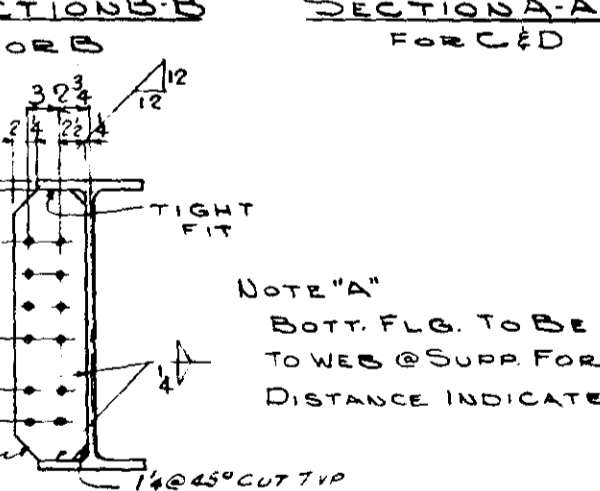
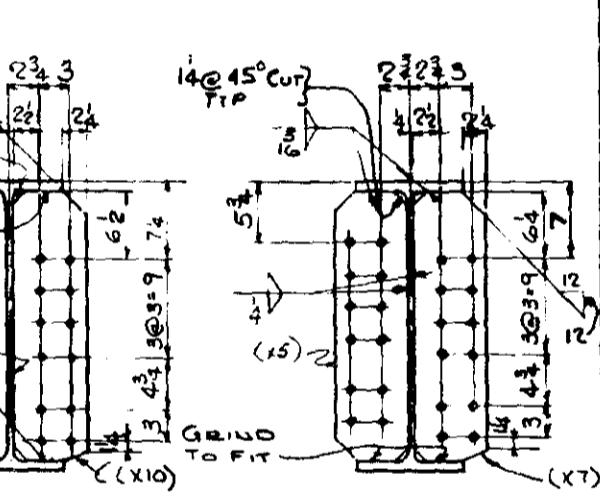
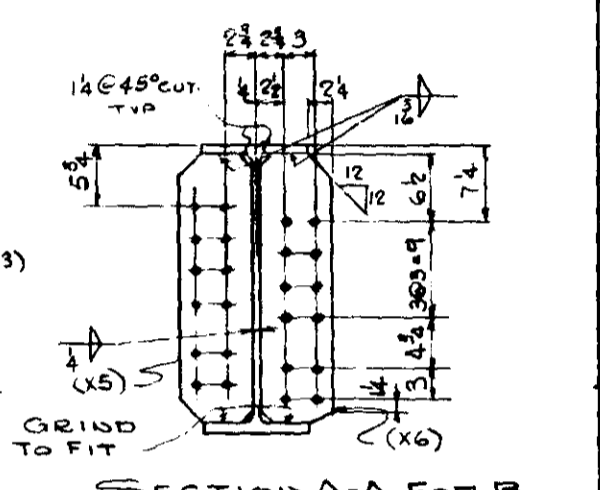
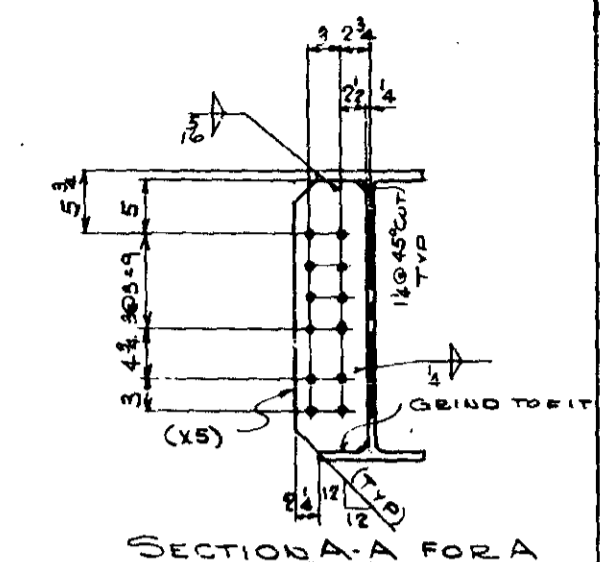
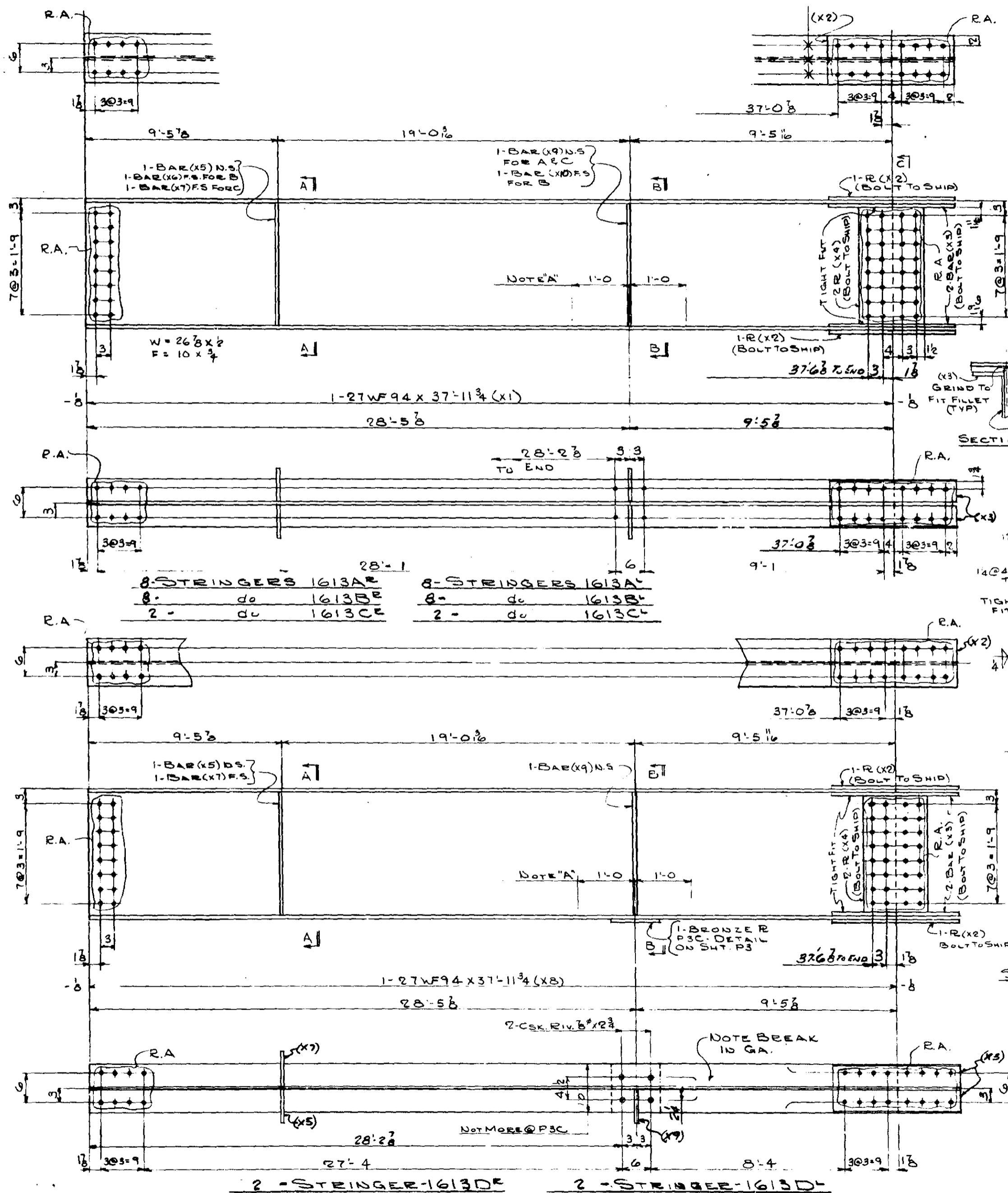
DIV.	ITEM	SHIP MK.	NO. REQ.	SHAPE	LENGTH	PC. MK.	REMARKS	ITEM NO.	TOTAL WEIGHT	PC. WT.
16/2B	4	16/2B	4	BOTTOM CHORD DIAGONALS						
	17	8	R 12x3/8	48	5	X6		4302	59	5929
	18	8	R 14x3/8	48	5	X7		4303		6917
	19	16	BAR 3/8x3/8	46	42	X8		4304		356
	20	8	R			X3		4305		153
	21	12	R			X4		4306	59	219
	22	4	F.W. 4	207	0			4307		NC

BID ITEM 59 = 40756

ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS, FABRICATORS, ERECTORS
 1240 10TH STREET, HAMMOND, INDIANA 46320

DETAILS OF: **BOTTOM CHORD LATERAL DIAGONAL**
 STRUCTURE: **BRIDGE NO. 9340**
 LOCATION: **MINNEAPOLIS, MINNESOTA**
 OWNER: **MINNESOTA STATE HWY. DEPT.**
 CUSTOMER: **MINNESOTA STATE HWY. DEPT.**

CONTRACT **3142** FABCOD **264** SHEET **1612**



NOTE "A"
BOTT. FLG. TO BE 90°
TO WEB @ SUPP. FOR
DISTANCE INDICATED

SHOP NOTE:
FOR GEN NOTES SEE GNI
FOR MAT'L SPECS. SEE BILL OF MAT'L

MINN. PROJ. N° I-IG35W-3(58)112
STATE PROJ. N° 2783-9340B (TH 35W-394)

HAMMOND FAB DIV. 16E18

OPEN HOLER 15" RIVETS & BOLTS 7" PAINT YES SEE SHGNI

DRAWN BY *M...* DATE 3-9-66 CHECKED BY L.O. DATE 3-22-66

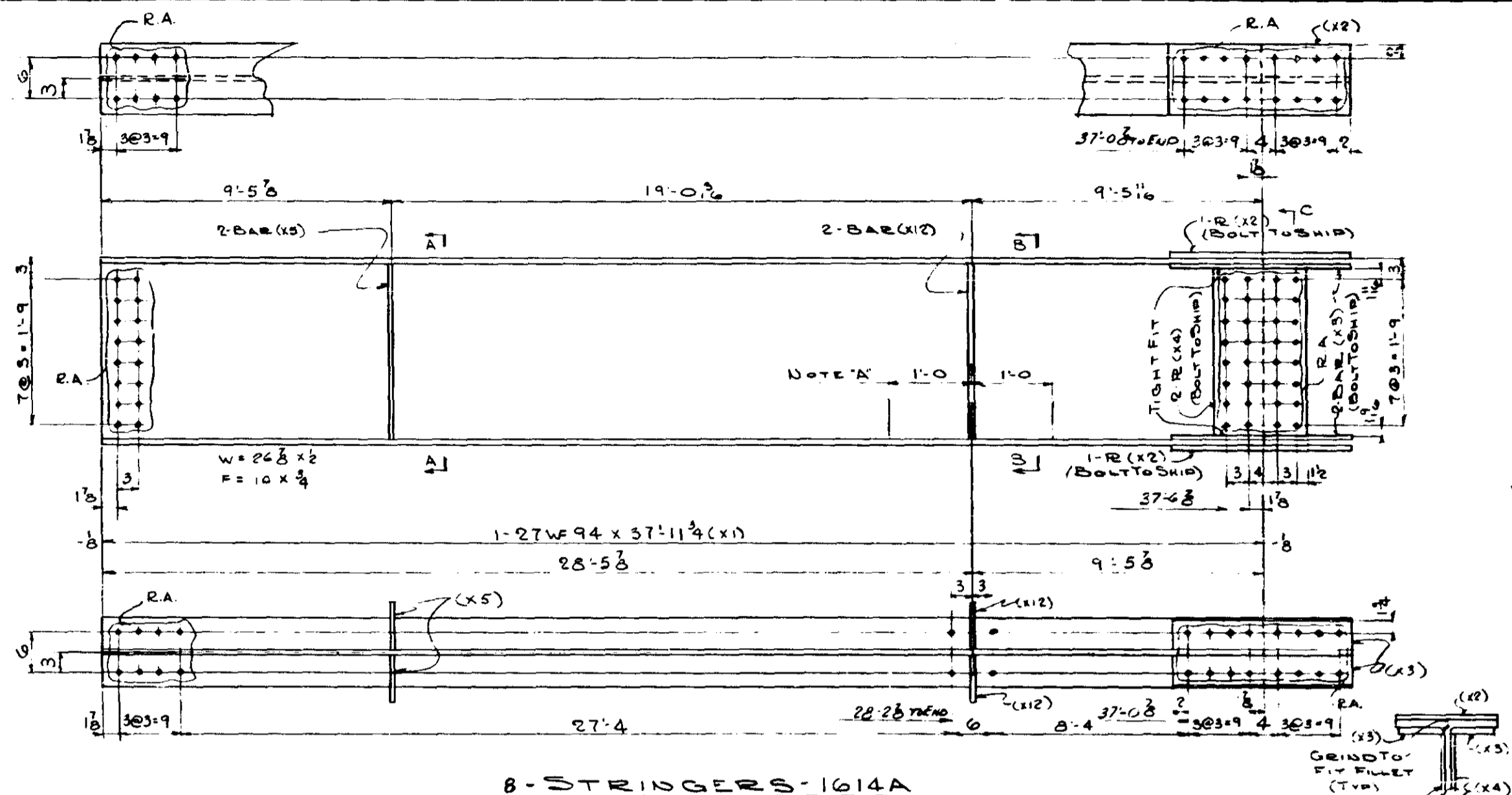
REVISIONS: 1. ADDED STUDS 2-17-67 2. REMOVED STUDS 3-21-67

Divs	LINE	SHIP	NO	SHAPE	LENGTH	PC	REMARKS	ITEM	WT.	TOTAL	M.D.
No	No	No	No			No		No	WT	WT	WT
	1										
	2										
	3										
4	4	1613A	8	STRINGER							
4	5	1613A	8	do							
	6	16	27 WF 94		37' 11 1/2"	X1		5905	59	57' 2 1/2"	3306
	7	32	R 10 X 16			2 X2	U.M.	5711		1032	
	8	64	BAR 4 X 4			2 X3	U.M.	5712		1194	
	9	32	R 15 X 16			2 X4	U.M.	5700		893	
	10	16	BAR 7 X 8			2 X5		5706		301	
	11	16	BAR 7 X 8			2 X9		5706	59	301	3306
	12	16	F.W. #4			0 7				NC	
	13	16	F.W. #4			8 3				NC	
	14	96	S.B. #7							NC	
	15										
	16										
4	17	1613B	8	STRINGER							
4	18	1613B	8	do							
	19	16	27 WF 94		37' 11 1/2"	X1		5905	59	57' 2 1/2"	3306
	20	32	R			X2	U.M.	5711		1032	
	21	64	BAR			X3	U.M.	5712		1194	
	22	32	R			X4	U.M.	5700		893	
	23	16	BAR			X5		5706		301	
	24	16	BAR 7 X 8			2 X6		5706		301	
	25	16	BAR 7 X 8			2 X10		5706	59	301	3306
	26	16	F.W. #4			1 2				NC	
	27	16	F.W. #4			12 0				NC	
	28									NC	
	29										
	30										
1	31	1613C	2	STRINGER							
1	32	1613C	2	do							
	33	4	27 WF 94		37' 11 1/2"	X1		5905	59	4280	3306
	34	8	R			X2	U.M.	5711		258	
	35	16	BAR			X3	U.M.	5712		298	
	36	8	R			X4	U.M.	5710		223	
	37	4	BAR			X5		5706		75	
	38	4	BAR 7 X 8			2 X7		5706		75	
	39	4	BAR			2 X9		5706	59	75	3306
	40	4	F.W. #4			1 2				NC	
	41	4	F.W. #4			12 0				NC	
	42	32	S.B. #7							NC	
	43										
	44										
1	45	1613D	2	STRINGER							
1	46	1613D	2	do							
	47	4	27 WF 94		37' 11 1/2"	X8		5905	59	14280	3306
	48	8	R			X2	U.M.	5711		258	
	49	16	BAR			X3	U.M.	5712		298	
	50	8	R			X4	U.M.	5710		223	
	51	4	BAR			X5		5706		75	
	52	4	BAR			X7		5706	59	75	3306
	53	4	BRONZE R			P3C	DETAIL'S ON SHGNI			NC	
	54	16	CSK. RIV. #8							NC	
	55	4	BAR			X9		5706	59	75	3306
	56	4	F.W. #4			1 2				NC	
	57	4	F.W. #4			12 0				NC	
	58	24	S.B. #7							NC	
	59										
	60										
	61										
	62										
	63										
	64										
	65										
	66										
	67										
	68										
	69										
	70										
	71										

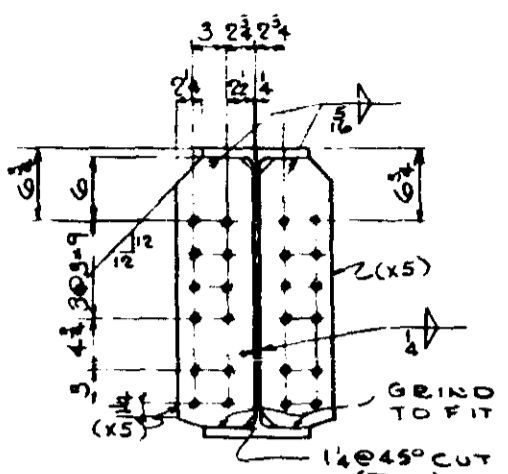
ALLIED STRUCTURAL MICRO-FILM FABRICATORS & RECTORS
1425 - 1426th STREET, HARBORWOOD, MINN. 55429

DETAILS OF STRINGERS PP1012012 & U16 TO U16
STRUCTURE: BRIDGE N° 9340
LOCATION: MINNEAPOLIS, MINNESOTA
OWNER: MINNESOTA STATE HWY DEPT.
CUSTOMER: MINNESOTA STATE HWY DEPT.

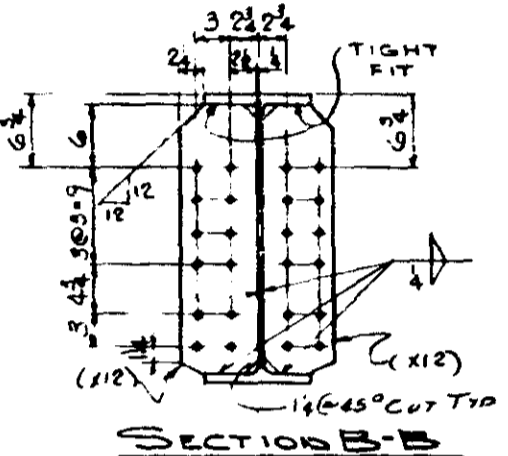
HAMMOND FAB DIV. 16E18
CONTRACT 3142 FABCOD 274 SHEET 1613



8-STRINGERS-1614A

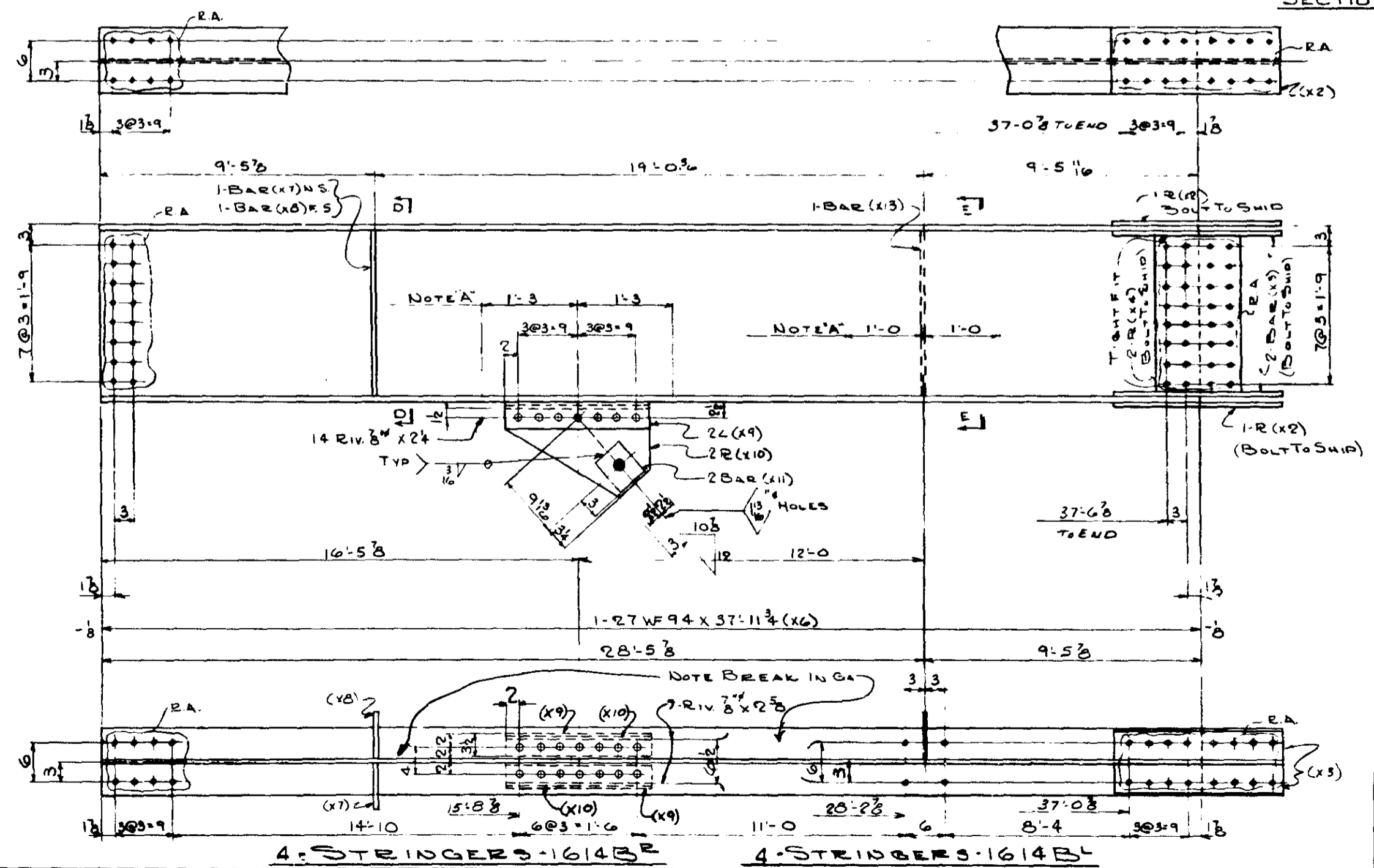


SECTION A-A

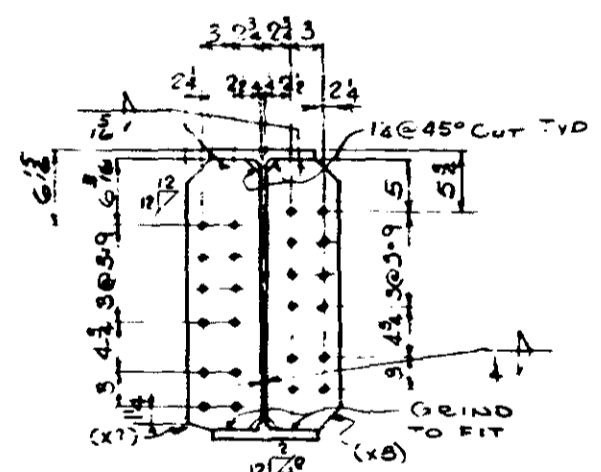


SECTION B-B

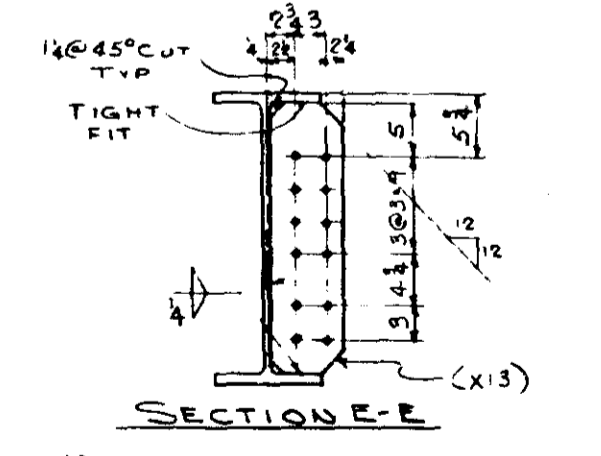
SECTION C



4-STRINGERS-1614B



SECTION D-D



SECTION E-E

SHOP NOTE:
FOR GEN NOTES SEE G1
FOR MAT'L SPECS SEE BILL OF MAT'L

MINN PROJ. NO. IG35W-3(5B)112
STATE PROJ. NO. 2783-9340B (TH 55W+394)

HAMMOND FAB DIV 16E18

OPEN HOLES: 15 1/2" DIA. RIVETS & BOLTS. 8 PAINT YES SEE SHT G11

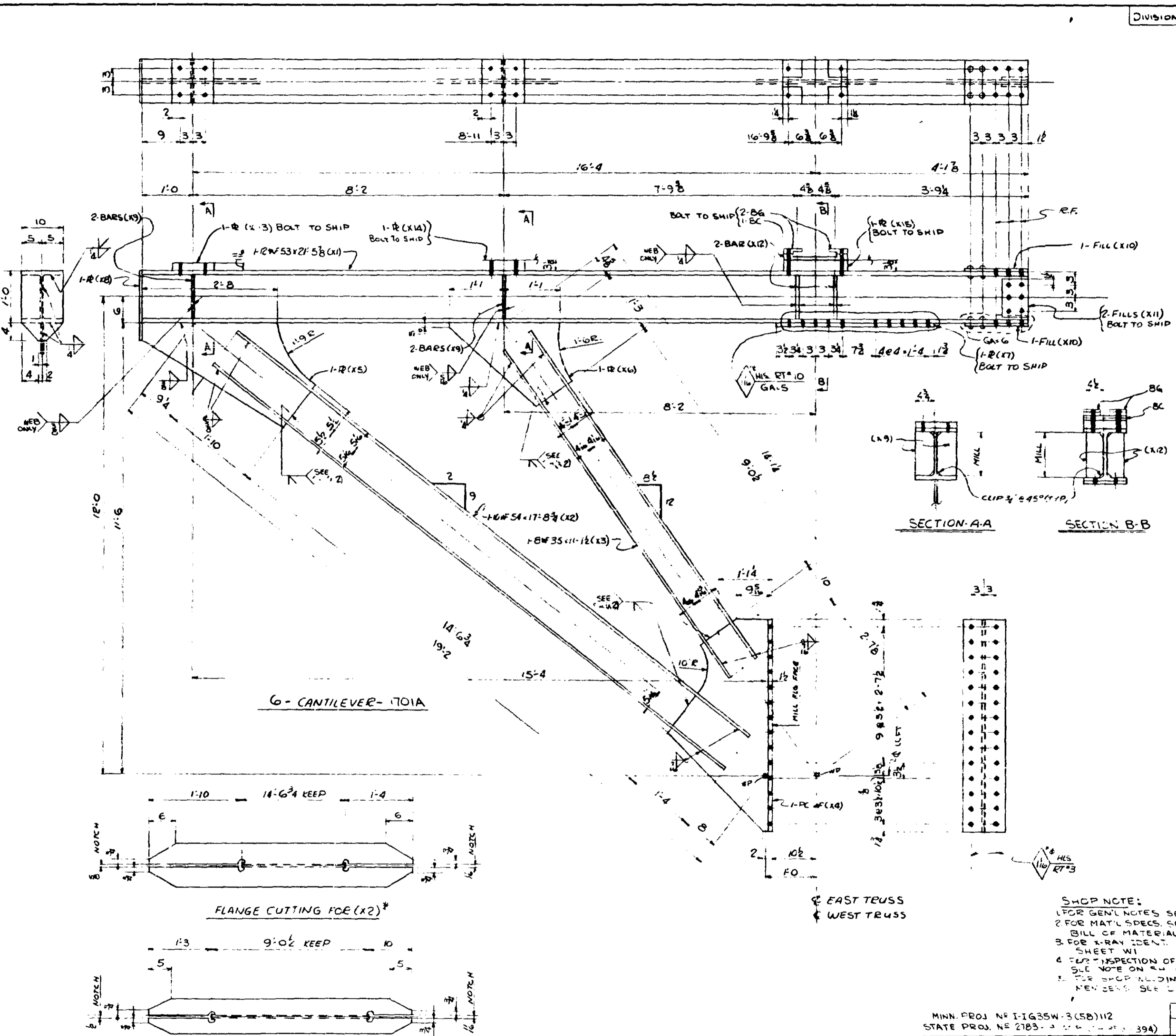
REVISIONS: [Diagrams showing revisions]

QTY	SHIP	NO	SHAPE	LENGTH	PC	REMARKS	ITEM	TOTAL
1614B	NO	REQ			NO		NO	WEIGHT
1								
2								
3								
4	1614A	8	STRINGERS					
5		8	27WF94	37' 11 3/4"	X1		5745	59 28560 3306
6		16	R 10 X 7/8	2' 2"	X2	UM	5711	516
7		32	BAR 4 X 1/2	2' 2"	X3	UM	5712	597
8		16	R 13 X 1/2	2' 0 1/2"	X4	UM	5710	447
9		16	BAR 7 X 3/8	2' 1 1/2"	X5		5746	301
10		16	BAR 7 X 3/8	2' 1 1/2"	X2		5746	301 3306
11		8	F.W. 1/2"	1'	C			
12		8	F.W. 1/2"	24'	O			40
13		48	S.B. 3/4"					
14	1614B	4	STRINGERS					
15	1614B	4	d=					
16		8	27WF94	37' 11 3/4"	X6		5745	59 28560 3306
17		16	R		X2		5711	516
18		32	BAR		X3		5712	597
19		16	R		X4		5710	447
20		8	BAR 7 X 3/8	2' 1 1/2"	X7		5746	151
21		8	BAR 7 X 3/8	2' 1 1/2"	X8		5746	151
22		16	L 4 X 3/8 X 6	1' 10"	X9		7706	267
23		16	R 13 X 1/2	1' 10"	X10		7705	495
24		16	BAR 5 X 3/8	0' 5 1/2"	X11		7707	41
25		8	BAR 7 X 3/8	2' 1 1/2"	X13		5746	59 151 3306
26		24	RIV. 3/4"					151
27		8	F.W. 1/2"	1'	2			40
28		8	F.W. 1/2"	12'	0			
29		8	F.W. 1/2"	3'	7			
30		48	S.B. 3/4"					
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
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ALLIED STRUCTURAL STEEL COMPANY
 1100 11TH STREET, MINNEAPOLIS, MINN. 55404
 ENGINEERS FABRICATORS ERECTORS

DETAILS OF: **STRINGERS BRIDGE 1614A**
 STRUCTURE: **BRIDGE 1614A**
 LOCATION: **MINNEAPOLIS, MINNESOTA**
 OWNER: **MINNESOTA STATE HWY. DEPT.**
 CUSTOMER: **MINNESOTA STATE HWY. DEPT.**

CONTRACT **3142** FARCOD **274** SHEET **1614**



DIVISION	NO	SHIP NO	NO	SHAPE	LENGTH	PC	REMARKS	ITEM NO	BID ITEM	TOTAL WEIGHT	M.V.D
1											
2											
3											
4	1701A	6		CANTILEVER (16B-216)							
5											
6											
7											
8											
9	6	12WF53			21.56	X1		4501	59	6834	3300
10	6	10WF54			17.04	X2		4520		5744	
11	6	8WF35			11.12	X3		4571		2336	
12	6	PL 30WF10B			4.1	X4	M.FLG.	4602		2646	
13	6	R 23 1/2 x 2			3.42	X5		4603		805	
14	6	R 19 x 3			2.48	X6		4604		344	
15	6	R 10 x 3			3.58	X7	UH	4605		529	
16	6	R 10 x 3			1.4	X8		4610		102	
17	24	R 4 1/2 x 2			0.16	X9	MZE	4620		176	
18	12	FILL 10 x 10			1.3	X10		4621		223	
19	12	FILL 6 x 6			0.9	X11		4622		23	
20	24	R 4 1/2 x 2			0.16	X12	MZE	4623		166	
21	6	R 10 x 1 1/2			0.10	X13		4624		207	
22	6	R 10 x 3			0.10	X14	FS	4625		553	
23	6	R 10 x 3			1.54	X15	FS	4626	59	843	3300
24											
25											
26											
27	6	R					SEE SH'T B				
28	24	R					FOR DPT				
29											
30											
31											
32											
33											
34											
35											
36											
37	6	4 WLD			24.7						
38	6	1/2 WLD			3.4						
39	6	1/2 WLD			23.0						
40	6	1/2 WLD			17.4						
41	6	1/2 WLD			0.54						
42	48	5" RIN									
43	72	5B									
44											
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NO	LGTH
48	2 1/2

SHOP NOTE:
 1. FOR GEN'L NOTES SEE GNI
 2. FOR MAT'L SPECS. SEE
 BILL OF MATERIAL
 3. FOR X-RAY IDENT. SEE
 SHEET W1
 4. FOR INSPECTION OF WELDS
 SEE NOTE ON SHIP
 5. FOR SHOP WELDING SEQ. OF WEB
 MEMBERS. SEE DRAWG (X1)

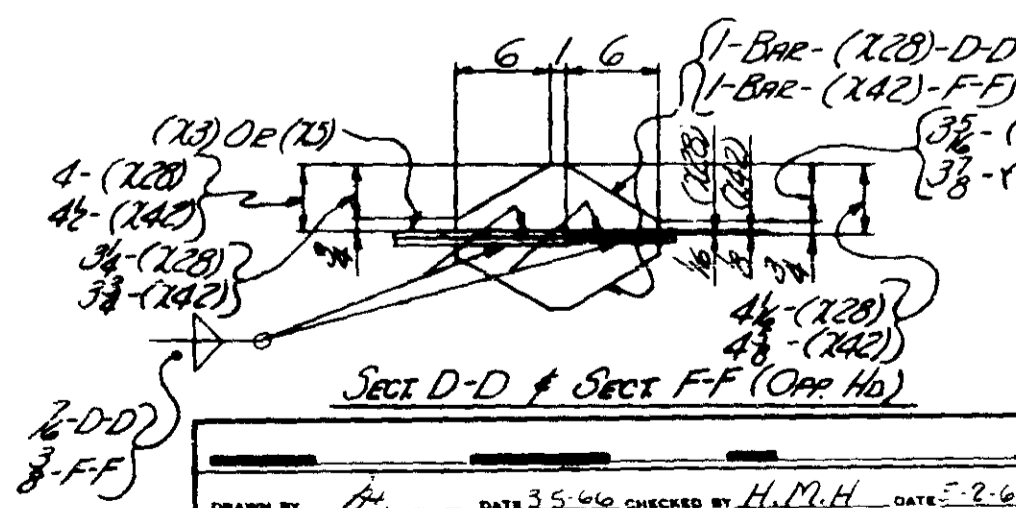
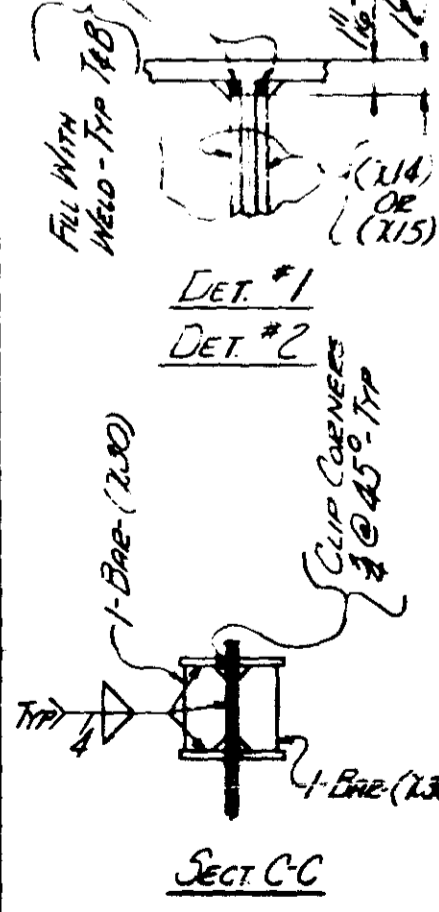
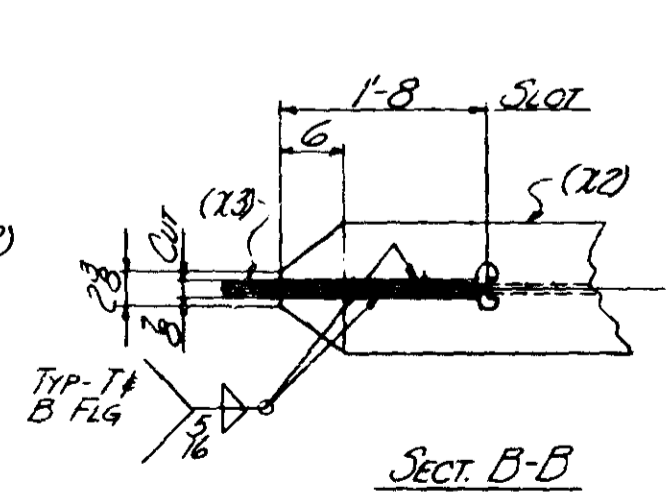
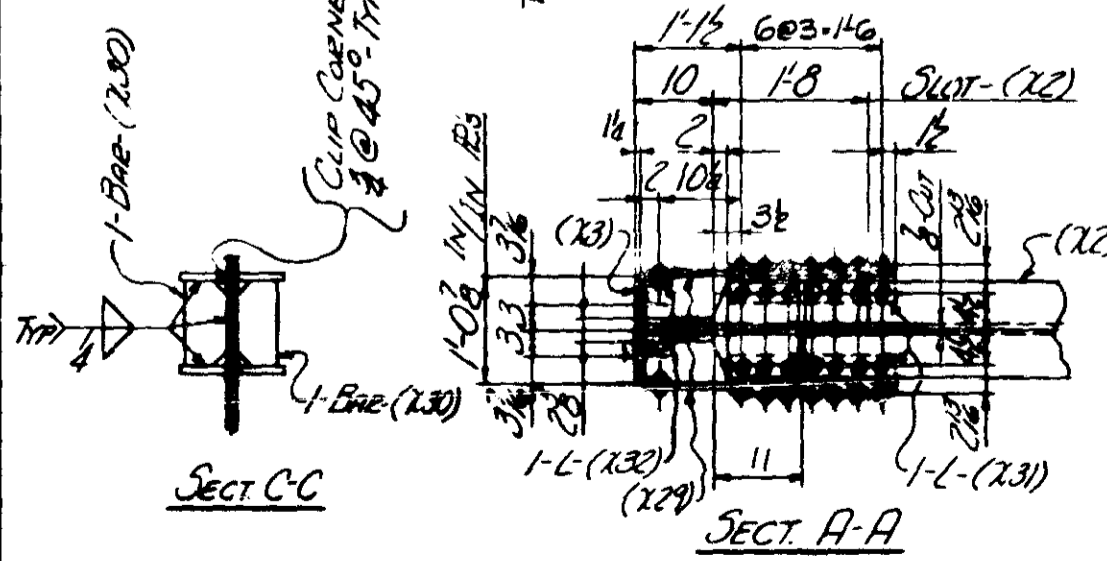
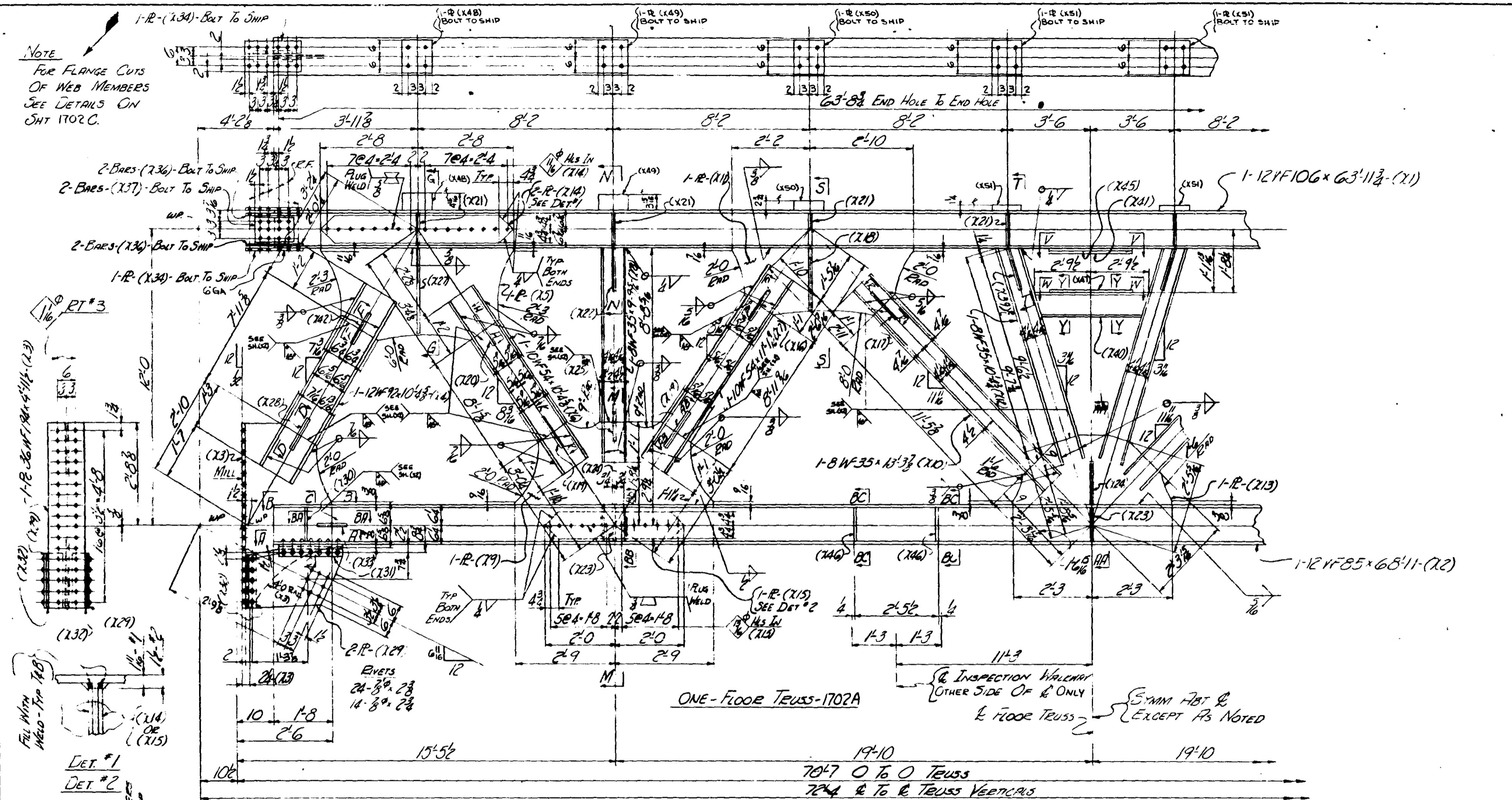
ALLIED STRUCTURAL STEEL COMPANY
 1215 10TH STREET HARBOR, MINN. 55404

MINN. PROJ. NO. I-635W-3(5B)112
 STATE PROJ. NO. 2183-3(11-1-394)
 DIVISION 17+19
 DETAILS OF: CANTILEVER @ U13-U15-U19
 STRUCTURE: BRIDGE NO. 9340
 LOCATION: MINNEAPOLIS, MINNESOTA
 OWNER: MINNESOTA STATE HYW. DEPT.
 CUSTOMER: MINNESOTA STATE HYW. DEPT.

REF	REVISIONS	DATE	CHECKED BY	DATE
E12 & E13	Q12-G1 R.E.M.		H.M.H.	5-2-66

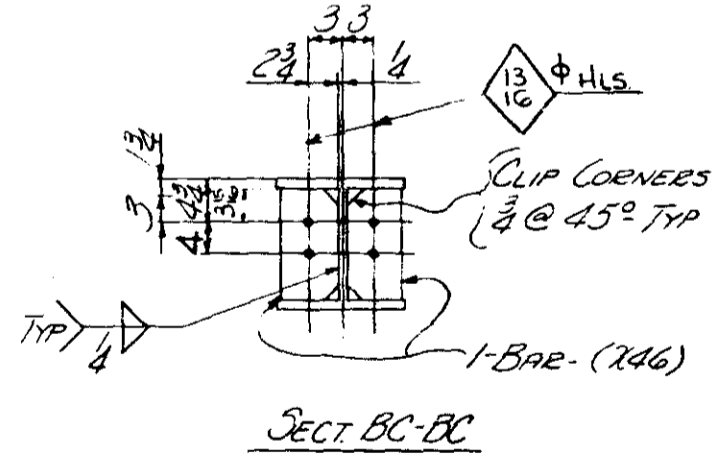
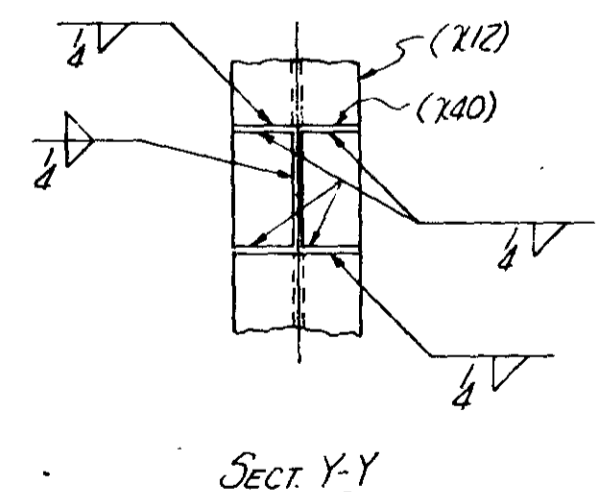
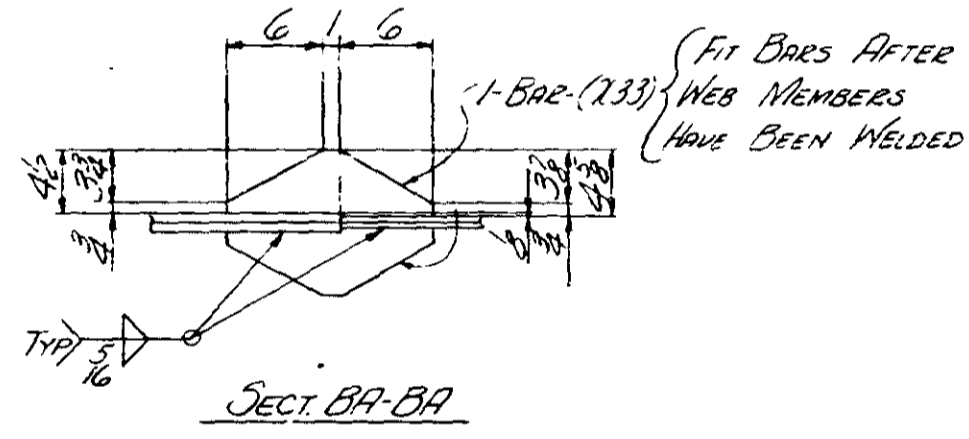
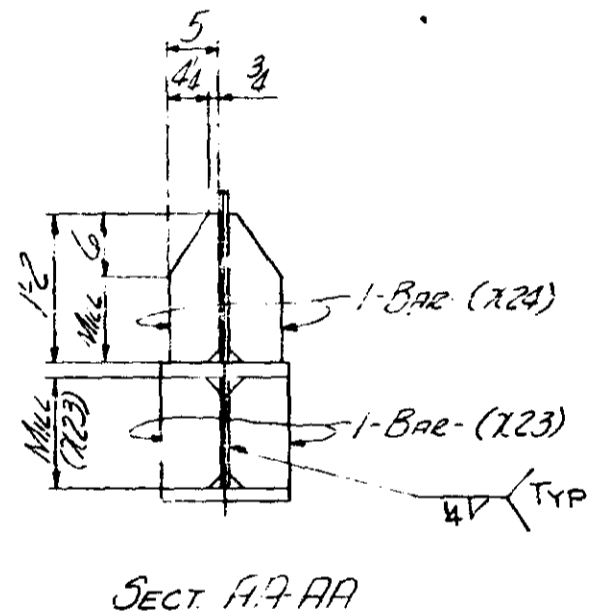
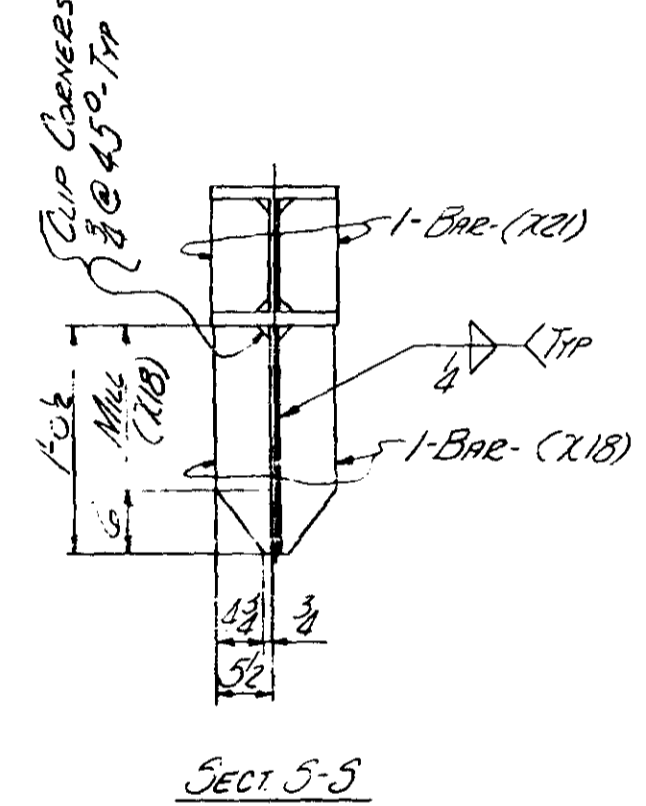
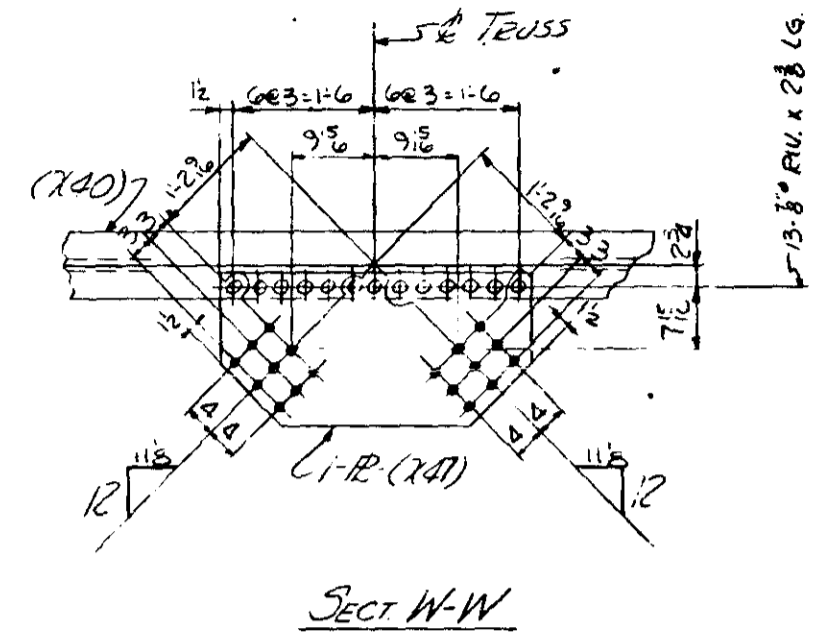
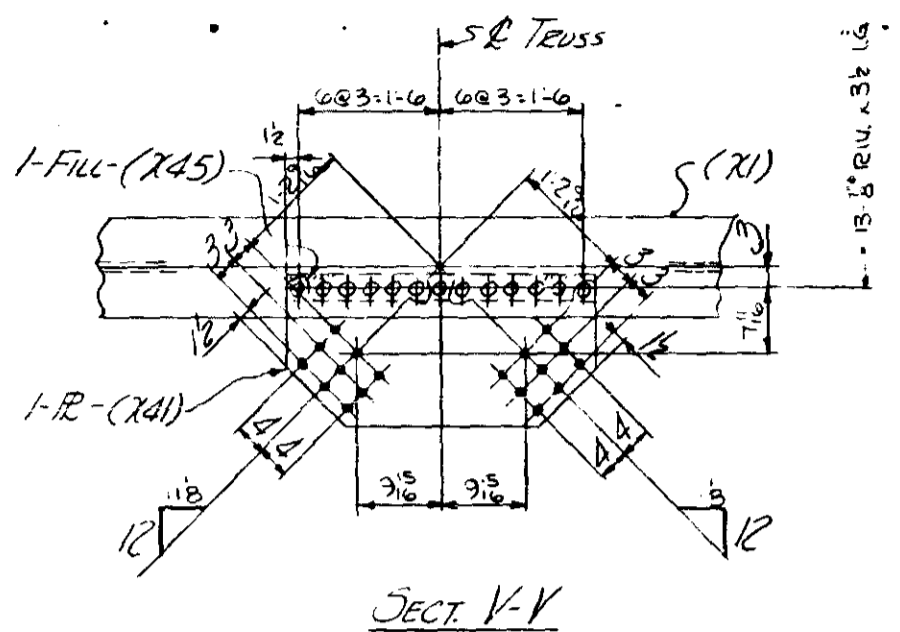
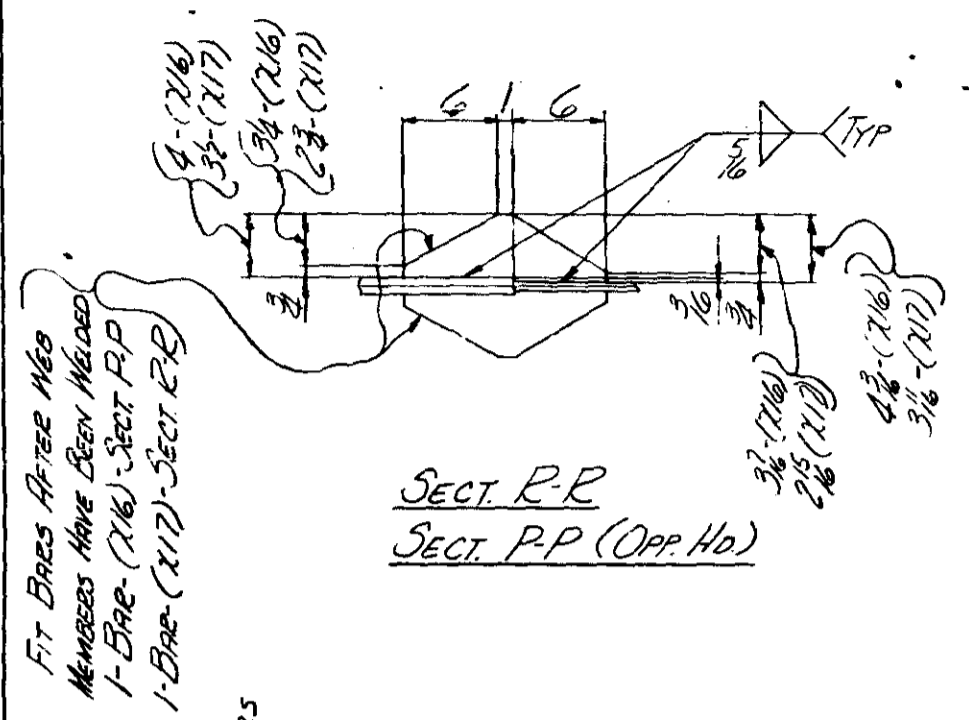
* SEE SH'TS XI & X2 FOR BEVEL CUTS FOR WELDING

NOTE
FOR FLANGE CUTS
OF WEB MEMBERS
SEE DETAILS ON
SHT 1702 C.



MINN. PROJ. NO. I-1635W-3(58)12
STATE PROJ. NO. 2783-9340B (TH35W:394)
CLINTON FAB

ALLIED		STRUCTURAL STEEL COMPANY	
ENGINEERS FABRICATORS ERECTOR			
DETAILS OF FLOOR TRUSS @ U19			
STRUCTURE BRIDGE No. 9340			
LOCATION MINNEAPOLIS, MINN.			
OWNER MINN. STATE HWY. DEPT.			
CUSTOMER MINN. STATE HWY. DEPT.			
DRAWN BY <i>AM</i>		DATE 3-5-60 CHECKED BY <i>H.M.H.</i> DATE 5-2-60	
REVISIONS	1-12-61 REM	2	3
CONTRACT	3142	FABCOO	244
SHEET		1702 AC	

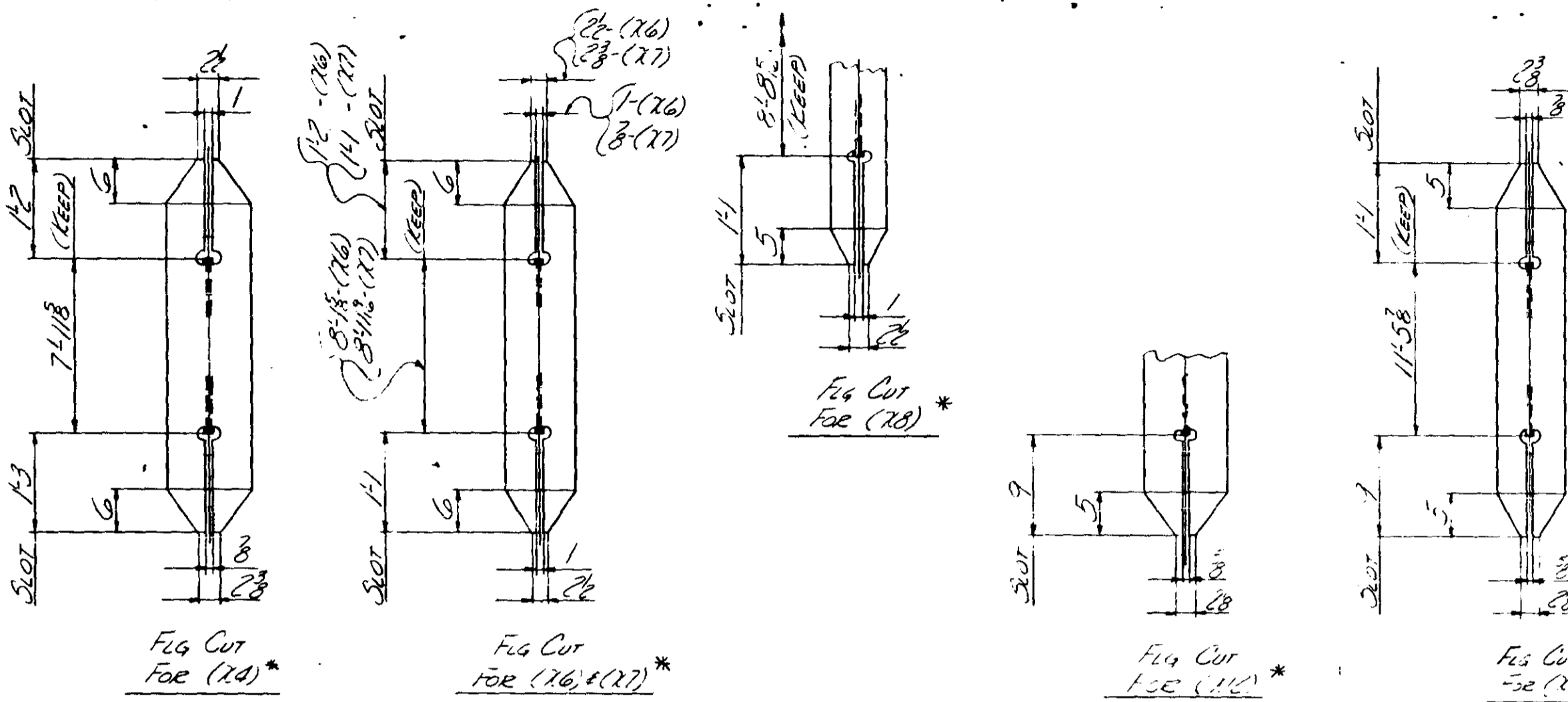


MINN PROJ N° I-IG 35W-3 (5B) 112
STATE PROJ. N° 2783-93408 (TH35W-394)

ALLIED ENGINEERS FABRICATORS ERECTORS
MILNO-FILM STRUCTURAL STEEL COMPANY
1415 15TH STREET, HANCOCK, INDIANA 47330

CLINTON FAB

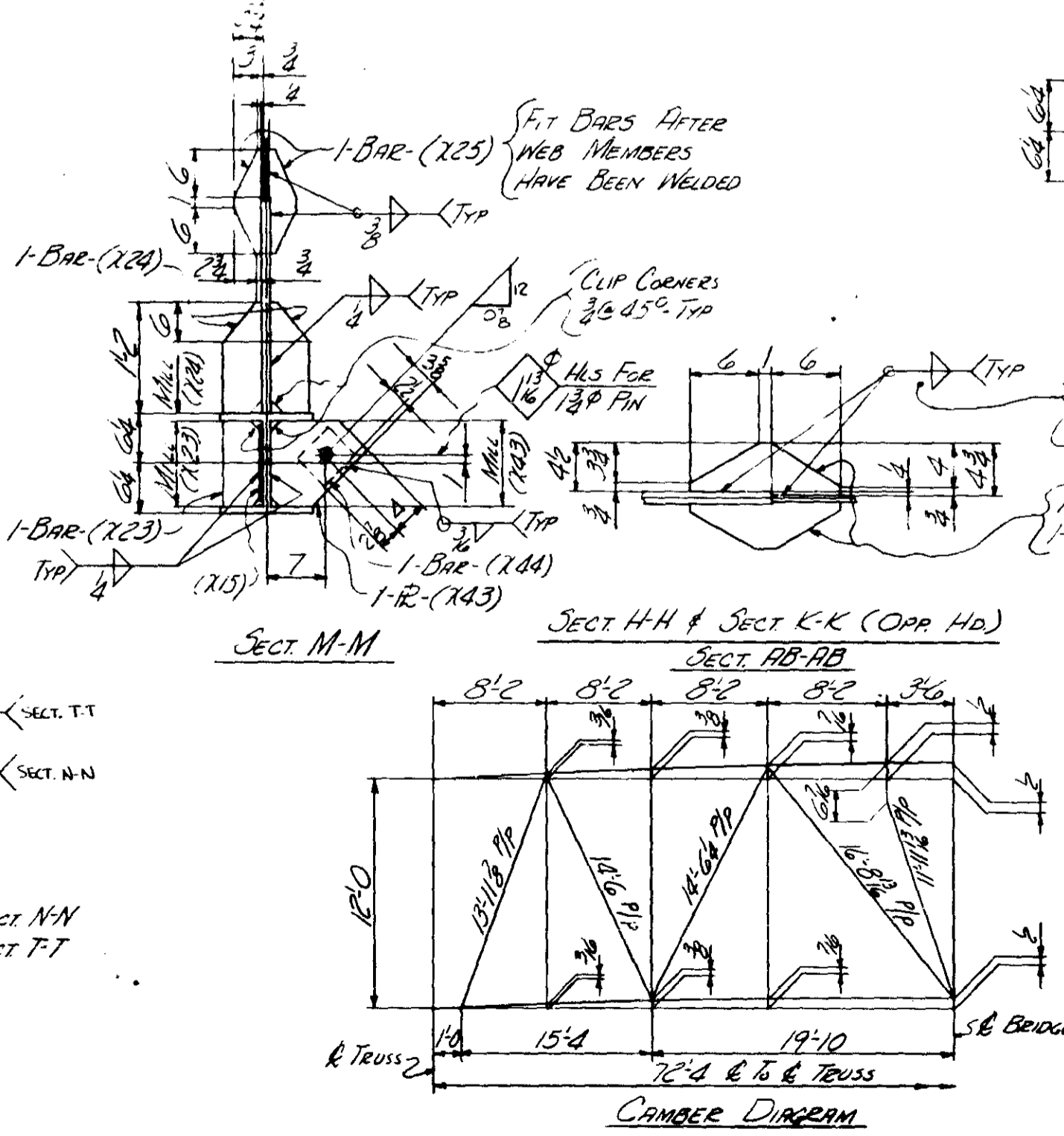
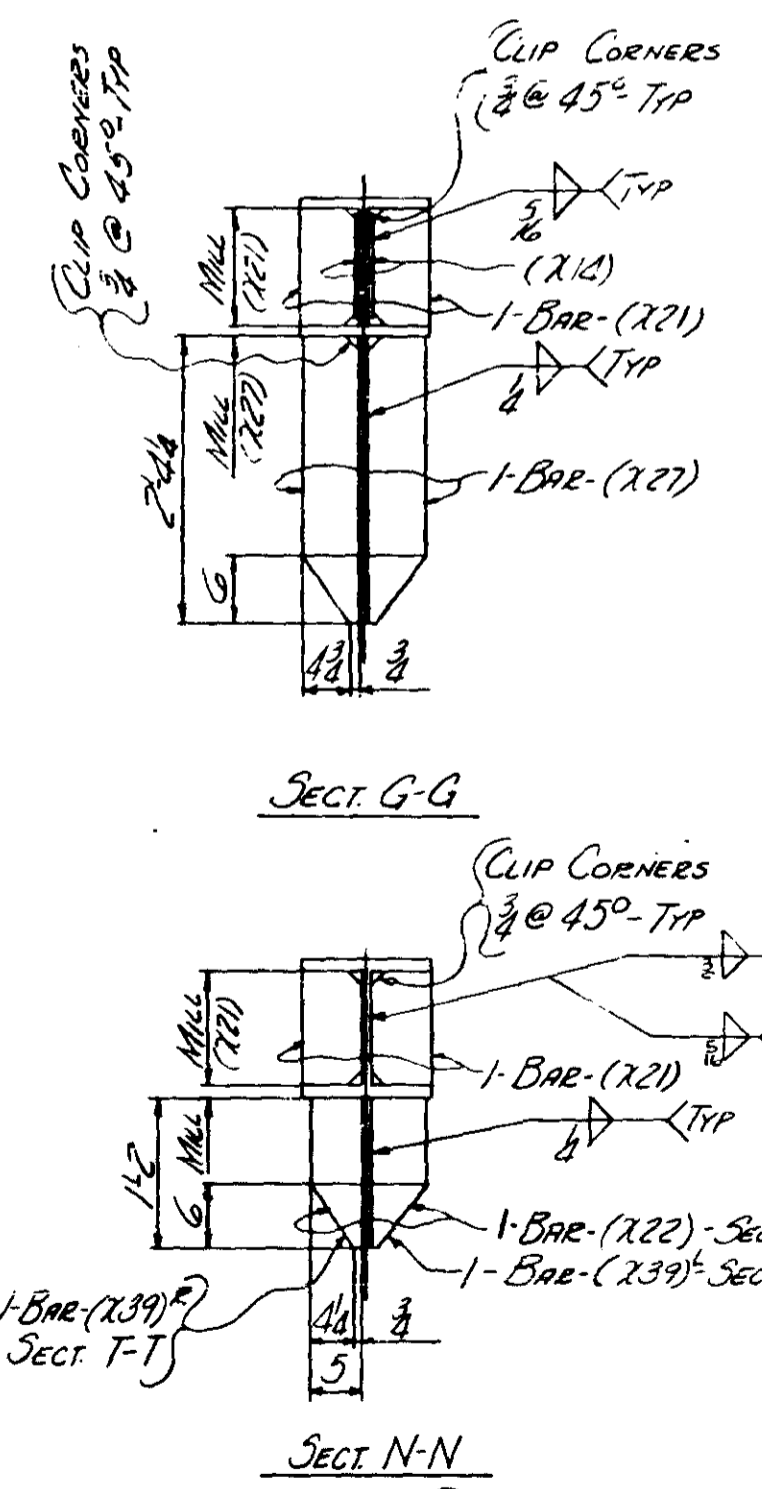
DETAILS OF	FLOOR TRUSS @ U19		
STRUCTURE	BRIDGE No. 7340		
LOCATION	MINNEAPOLIS, MINN.		
OWNER	MINN. STATE HWY DEPT.		
CUSTOMER	MINN. STATE HWY DEPT.		
DRAWN BY	PH	DATE	3-5-66
CHECKED BY	H.M.H.	DATE	5-2-66
REVISIONS	△	△	△
CONTRACT	3142	FABCOD	244
SHEET	1702	BC	



LINE	SHIP MK	NO	RECD	SHAPE	LENGTH	TOTAL WEIGHT
72	1	1	3/8 WLD	7 2	1.6	
73	1	1	1/2 WLD	13 4		
74	1	1	3/8 WLD	252		
75	1	1	3/8 WLD	175 10		
76	1	1	1/2 WLD	82		
77	1	1	3/8 WLD	120		
78	1	1	3/8 WLD	2 4		
79	1	1	3/4 WLD	3 48		

BID ITEM
59 = 24850

* SEE SH. XI & XII FOR BEVEL CUTS FOR WELDINGS



- SHOP NOTE**
1. FOR GEN. NOTES SEE SH. 5/1
 2. FOR MATL. SPECS SEE BILL OF MATL.
 3. FOR IDENT. NO. SEE SH. W/1
 4. FOR INSPECTION OF WELDS SEE NOTE ON SH. 5/1
 5. FOR SHOP WELDING SEQ. OF WEB MEMBERS SEE EX. W/1 (X1)

LINE	SHIP MK	NO	RECD	SHAPE	LENGTH	PC	REMARKS	ITEM NO.	TOTAL WEIGHT
1	102A	ONE	FLOOR TRUSS						
2		1	12WF106	63 11 3/4	27		SEE LINE 45	4505	59
3		1	12WF66	28 0			PAY WT		2968
4		1	12WF65	17 1 3/8			FOR LINE 3		2339
5		1	12WF85	68 11	72		SEE LINE 45	4502	
6		1	12WF85	45 2			PAY WT		3882
7		1	12WF65	11 7 1/2			FOR LINE 6		154
8		2	F2 36WF174	4 11 1/2	13		MILL FLG	4405	1924
9		2	12WF72	10 4 1/2	74			4510	1911
10		2	R 30 X 3	5 4	15			4404	952
11		2	10WF50	10 6 3/4	73			4511	1122
12		2	10WF50	11 1 1/4	77			4513	1202
13		2	6WF35	7 9 1/2	78			4512	689
14		2	R 27 X 3	5 6	17			4405	684
15		2	6WF35	13 3 3/4	110			4514	933
16		2	R 27 X 3	5 0	21			4406	561
17		2	6WF35	10 4 3/4	114			4515	728
18		1	R 27 X 3	4 0	14			4407	176
19		4	R 9 1/2 X 3	5 4	24			4423	215
20		2	R 9 1/2 X 3	4 0	215			4422	97
21		4	BAR 4 3/8 X 3	3 3 1/4					
22		1	BAR 3 1/2 X 3	1 1	217			4405	23
23		1	BAR 3 1/2 X 3	3 3 3/8					
24		4	BAR 3 1/2 X 3	1 8 1/2	713			4417	16
25		2	BAR 3 1/2 X 3	3 1 1/4					
26		8	BAR 4 3/8 X 3	1 1	217			4405	56
27		1	BAR 4 3/8 X 3	6 1 1/4					
28		4	BAR 4 3/8 X 3	1 1	220			4414	74
29		1	BAR 4 3/8 X 3	3 2 3/8					
30		10	BAR 5 1/2 X 2	0 10 1/2	721			4421	45
31		4	BAR 5 1/2 X 2	1 2	722			4416	136
32		2	BAR 5 1/2 X 2	1 11 1/4					
33		4	BAR 5 1/2 X 2	0 10 1/2	730			4419	33
34		1	BAR 5 1/2 X 2	1 9	731			4420	65
35		6	BAR 5 1/2 X 2	1 11 1/4				4418	49
36		3	BAR 5 1/2 X 2	1 11 1/4					
37		4	BAR 3 1/2 X 3	1 1	725			4415	16
38		1	BAR 3 1/2 X 3	3 4					
39		4	BAR 5 1/2 X 2	2 4 1/2	727			4411	38
40		2	BAR 5 1/2 X 2	4 4 1/2					
41		4	BAR 4 1/2 X 2	1 1	728			4413	91
42		1	BAR 4 1/2 X 2	3 3 3/8					
43		4	R 19 3/8 X 1/2	2 7 1/2	729			4424	23
44		4	BAR 5 1/2 X 2	0 10 1/2	730			4419	343
45		4	R 14 X 1/2	1 9	731			4426	25
46		4	R 15 X 3/8 X 1/2	1 5 1/2	732			4425	49
47		4	BAR 4 3/8 X 3	1 1	733			4427	61
48		4	R 10 X 1/2	1 6 1/4	134			4523	103
49		8	BAR 5 1/2 X 2	1 6 1/4	136			4524	62
50		4	R 7 X 3/4	1 5 1/2	137			4525	47
51		4	BAR 5 1/2 X 2	1 2	734			4410	33
52		2	BAR 5 1/2 X 2	1 11 1/4					
53		1	R 18 X 3/4	5 7	147			4516	195
54		4	BAR 4 3/8 X 3	1 1	742			4412	75
55		1	BAR 4 3/8 X 3	3 2 1/8					
56		4	R 10 1/2 X 3/4	1 0 6 1/4	143			4411	38
57		4	BAR 5 1/2 X 2	5 8 1/2	144			4416	56
58		1	BAR 4 3/8 X 3	3 3 1/4	145			4417	10
59		4	BAR 5 1/2 X 2	0 10 1/2	146			4418	16
60		1	BAR 4 3/8 X 3	3 3 1/4	147			4418	25
61		4	BAR 5 1/2 X 2	0 10 1/2	148			4418	38
62		1	BAR 4 3/8 X 3	3 2 1/8					
63		1	R 18 1/2 X 3/4	3 3	147			4410	76
64		2	R 10 X 4 1/2	1 0	148			4418	34
65		2	R 10 X 3 3/4	1 0	149			4415	276
66		2	R 10 X 2 3/4	1 0	150			4411	96
67		2	R 10 X 1 1/2	1 0	151			4418	59
68									94
69									3306
70									
71									

MINN PROJ No I-1635N-3(58)112
STATE PROJ No 2783

FAB DIVISION 17

OPEN HOLES 1 1/2 UN. RIVETS & BOLTS 3 8 PAIN: YES, SEE SH. 4/1

DRAWN BY: FH DATE: 3-24-66 CHECKED: H.M.H. DATE: 5-2-66

REVISIONS: 1-18-67 R.E.M. 1-18-67

CONTRACT 3142 FABCOD 244 SHEET 1702 C

ALLIED STRUCTURAL STEEL COMPANY
1415 16TH STREET ST. LOUIS, MISSOURI 63103

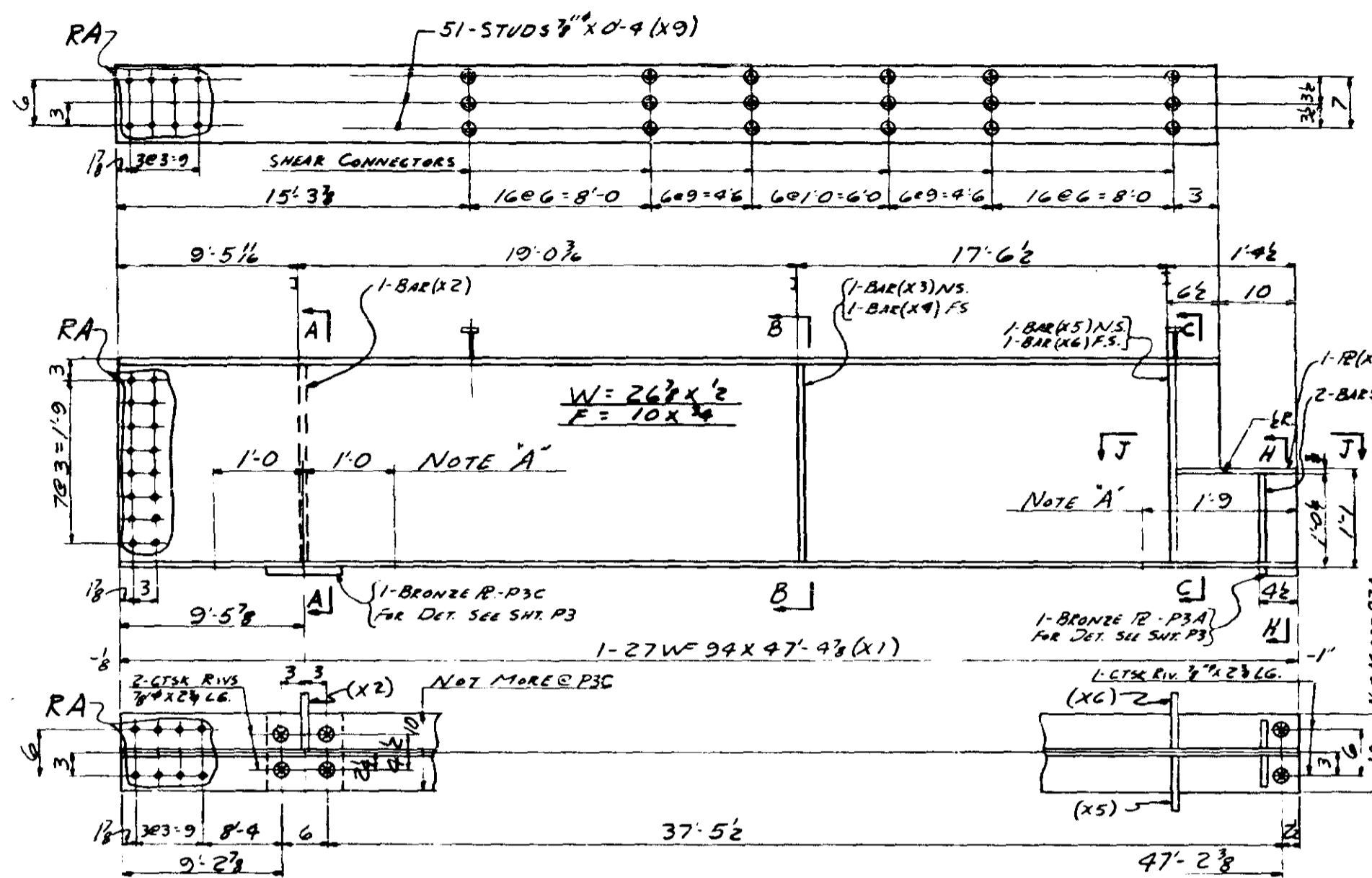
DETAILS OF FLOOR TRUSS @ U19

STRUCTURE: BRIDGE No. 7340

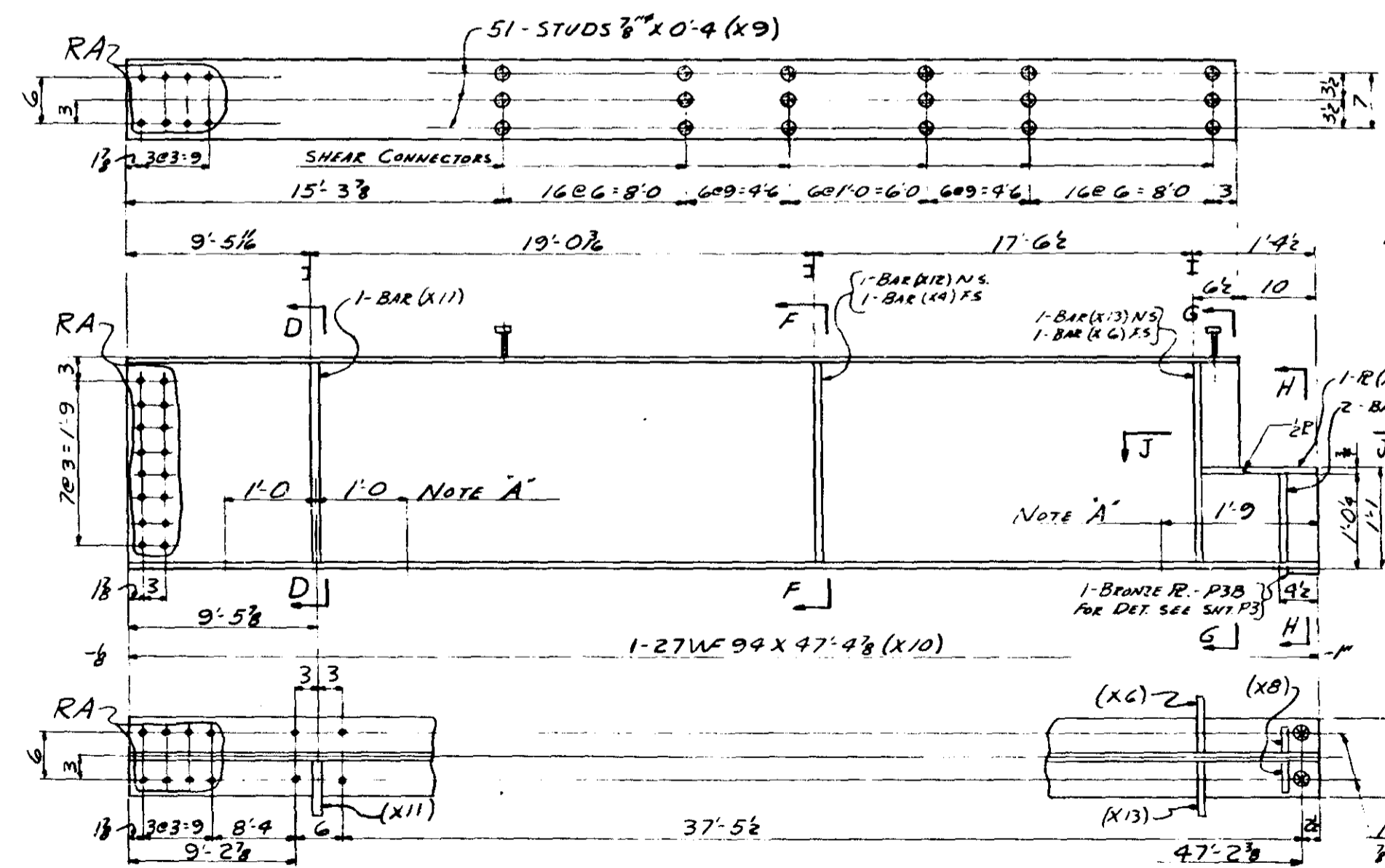
LOCATION: WINNEPPOLES, MINN.

OWNER: MINN. STATE HWY. DEPT.

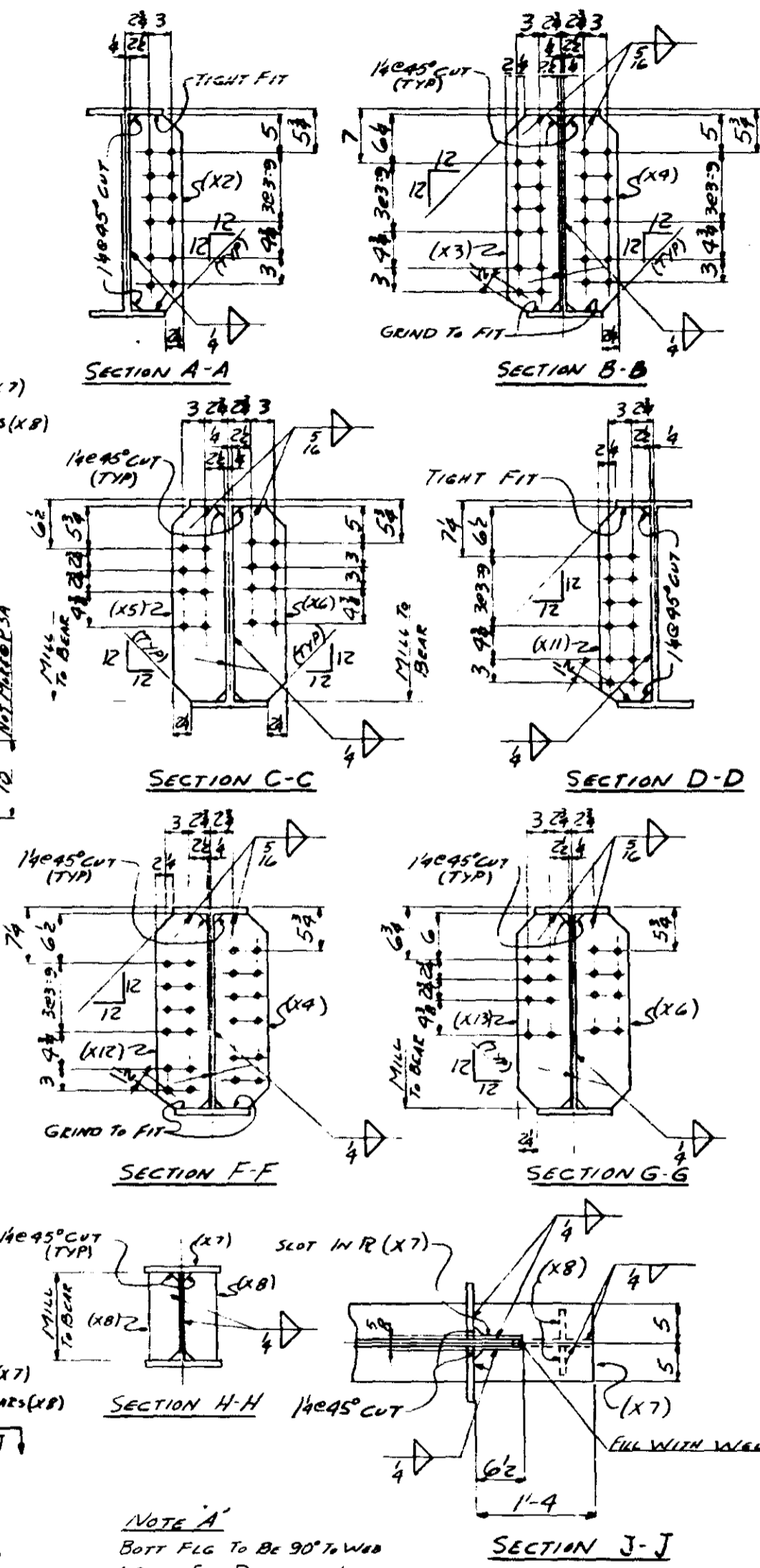
CUSTOMER: MINN. STATE HWY. DEPT.



ONE - STRINGER - 1703A^R
ONE - STRINGER - 1703A^t



ONE - STRINGER - 1703B



NOTE A'
BOTT FLG TO BE 90° TO WEB
& SUPP FOR DISTANCE INDICATED

SHOP NOTES
FOR GEN NOTES
SEE SHT. G.N.I.
FOR MATL SPECS
SEE BILL OF MAT'L.

MINN. PROJ. NO. I-1635W-3 (58) 112
STATE PROJ. 2703-9340B (TH 35W-394)

LINE	SHIP NO.	NO. REQD.	SHAPE	LENGTH	PC. NR.	REMARKS	ITEM NO.	TOTAL WEIGHT	PERCENT
1									
2									
3									
4									
5									
6									
7	1703A	ONE	STRINGER	31'47'5"					
8	1703A	ONE	DO	31'47'5"					
9	2		27WF 94	47'4 1/2"	X1			59	89.12
10	2		BAR 7 1/2"	2 1/2"	X2			59	38
11	2		BAR 7 1/2"	2 1/2"	X3			59	38
12	2		BAR 7 1/2"	2 1/2"	X4			59	38
13	2		BAR 7 1/2"	2 1/2"	X5	MIE		59	50
14	2		BAR 7 1/2"	2 1/2"	X6	MIE		59	50
15	2		R 10 X 3/4"	1 1/4"	X7			59	68
16	4		BAR 4 1/2"	0 1/2"	X8	MEE		59	29
17	306		STUDS 3/8"	0"	X9	TYPE 53		59	15.6
18	2		BRONZE R		P3A				
19	2		BRONZE R		P3C				
20	2		4 WLD	27 6"					NC
21	2		1/2 WLD	2 4"					
22	12		RIVS 3/8"						
23									
24									
25									
26									
27									
28									
29									
30									
31	1703B	ONE	STRINGER	31'47'5"					
32	1		27WF 94	47'4 1/2"	X10			59	44.56
33	1		BAR		X4			59	19
34	1		BAR		X6			59	25
35	1		R		X7			59	39
36	2		BAR		X8			59	15
37	153		STUDS 3/8"	0 1/2"	X9	TYPE 53		59	78
38	1		BAR 7 1/2"	2 1/2"	X11			59	19
39	1		BAR 7 1/2"	2 1/2"	X12			59	19
40	1		BAR 7 1/2"	2 1/2"	X13	MIE		59	25
41	1		BRONZE R		P3B				
42	1		4 WLD	27 6"					NC
43	1		1/2 WLD	2 4"					
44	2		RIVS 3/8"						
45									
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BID ITEM 59 = 14069

ALLIED STRUCTURAL STEEL COMPANY
ENGINEERS FABRICATORS ERECTORS
1111 - 15TH STREET, HAMBURG, MINN. 55126

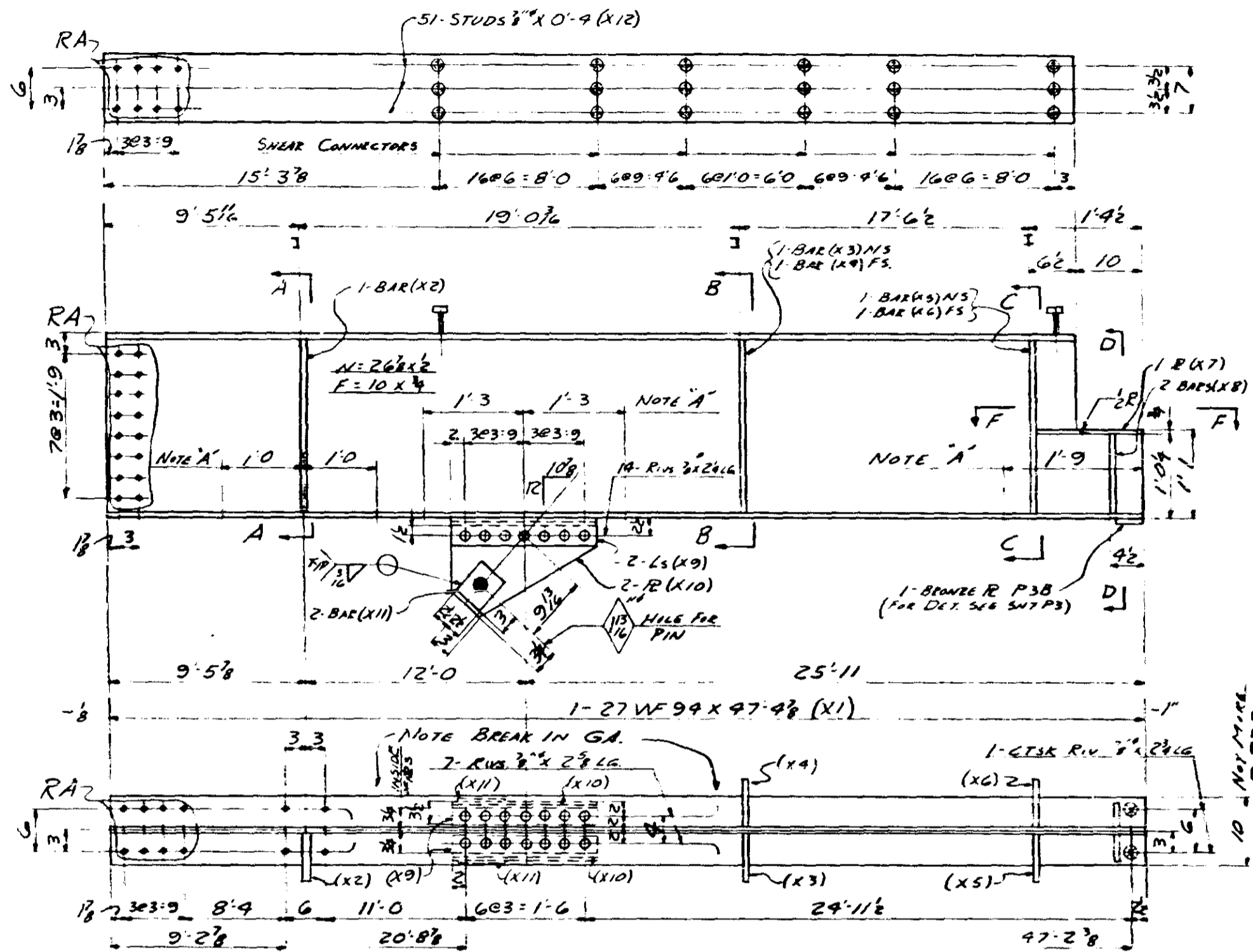
DIVISION #17
HAMBURG FAB.

DETAILS OF STRINGERS - PP. U20 - U19
STRUCTURE BRIDGE No 9340
LOCATION MINNEAPOLIS, MINNESOTA
OWNER MINNESOTA STATE HWY DEPT.
CUSTOMER MINNESOTA STATE HWY DEPT.

CONTRACT 3142 FABCOD 274 SHEET 1703

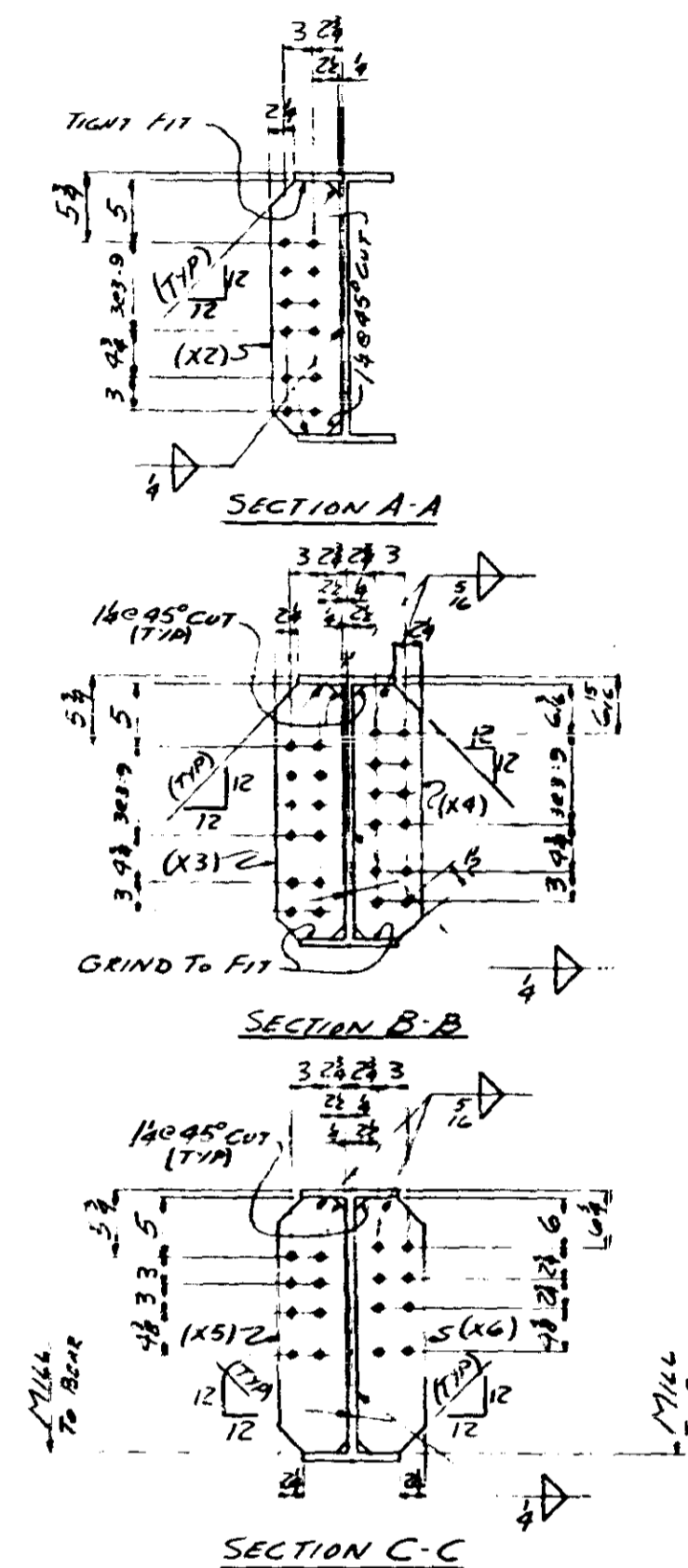
REF DWG E7	REVISIONS	△	△	△	△
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DRAWN BY: D.J. DATE 3-26-66 CHECKED BY: L.O. DATE 3-29-66

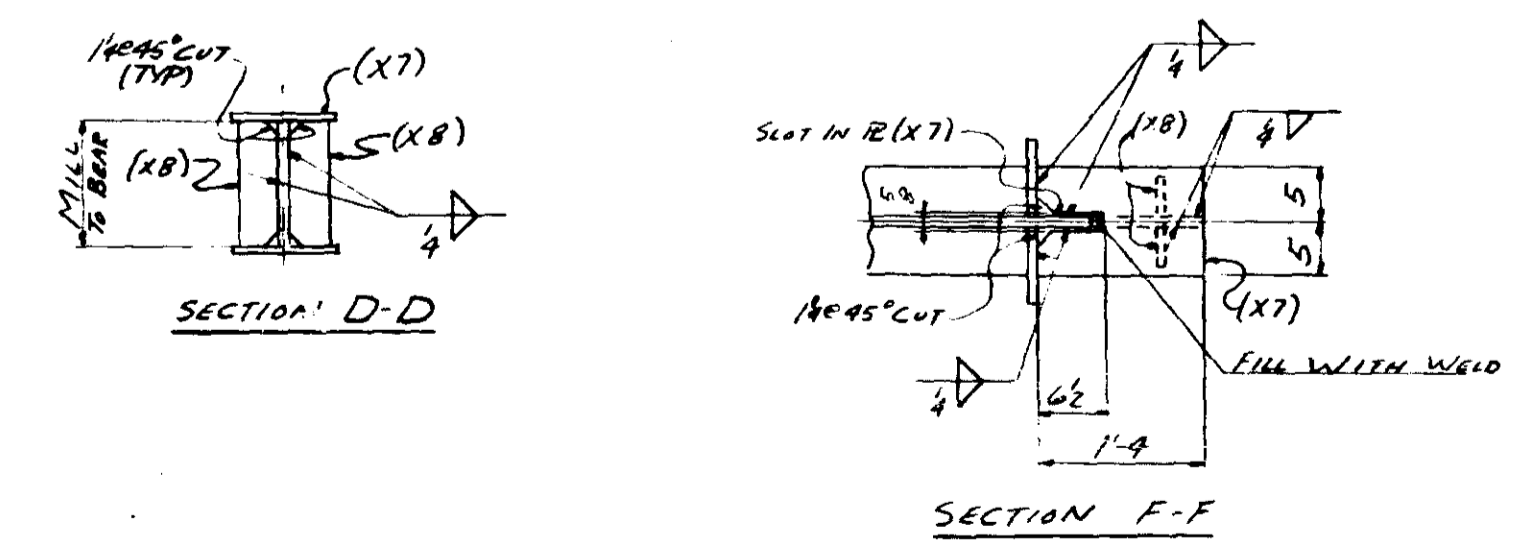


ONE - STRINGER - 1704A^R
ONE - STRINGER - 1704A^A

NOTE 'A'
BOTH FLG. TO BE 90° TO WEB
+ SUP FOR DISTANCE INDICATED



SHOP NOTE
FOR GEN NOTES SEE
SMT. G.M.I.
FOR MATL SPECS SEE
BILL OF MATL



MINN. PROJ. No I-IG35W-3 (58)112
STATE PROJ. 2783-9340B (TH35W-399)

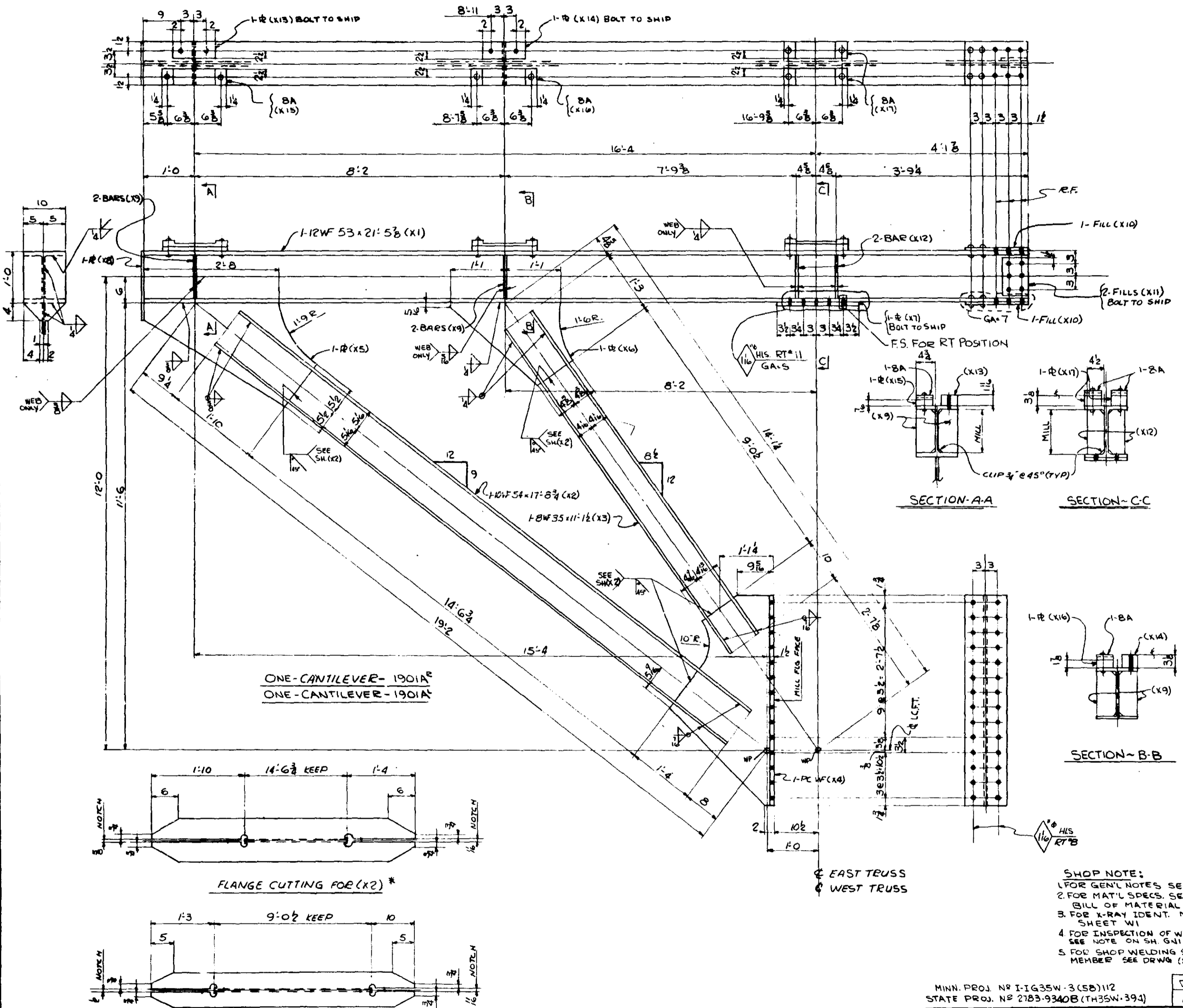
LINE NO.	QUANTITY	DESCRIPTION	LENGTH	PC NO.	REMARKS	ITEM NO.	TOTAL WEIGHT
1							
2							
3							
4							
5							
6							
7	ONE	STRINGER (31X 97'5")					
8	ONE	DO (31X 97'5")					
9	2	27 WF 94	47'9 1/2" X1			59	891.2
10	2	BARS 7/8"	2 1/2" X2			59	38
11	2	BARS 7/8"	2 1/2" X3			59	38
12	2	BARS 7/8"	2 1/2" X9			59	38
13	2	BARS 7/8"	2 1/2" X5		MIE	59	50
14	2	BARS 7/8"	2 1/2" X6		MIE	59	50
15	2	R 10x 1/2"	1'4" X7			59	68
16	4	BARS 9/16"	0 1/2" X8		MZE	59	29
17	4	LS 4x3x 1/2"	1'10" X9			59	67
18	4	R 134x 3/4"	1'10" X10			59	129
19	4	BARS 5/16"	0 5/8" X11			59	10
20	306	STUDS 5/8"	0'9" X12		TYPE 33F	59	156
21	2	BRASS R			P38		
22	2	1/2" WLD	3'7"				NE
23	2	1/2" WLD	27'6"				
24	2	1/2" WLD	2'9"				
25	60	X 1/2" 3/4"					
26							
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ALLIED STRUCTURAL STEEL COMPANY
1425 14TH STREET, HARBOR, MINN. 55404

DIVISION # 17
HAMMOND FAB

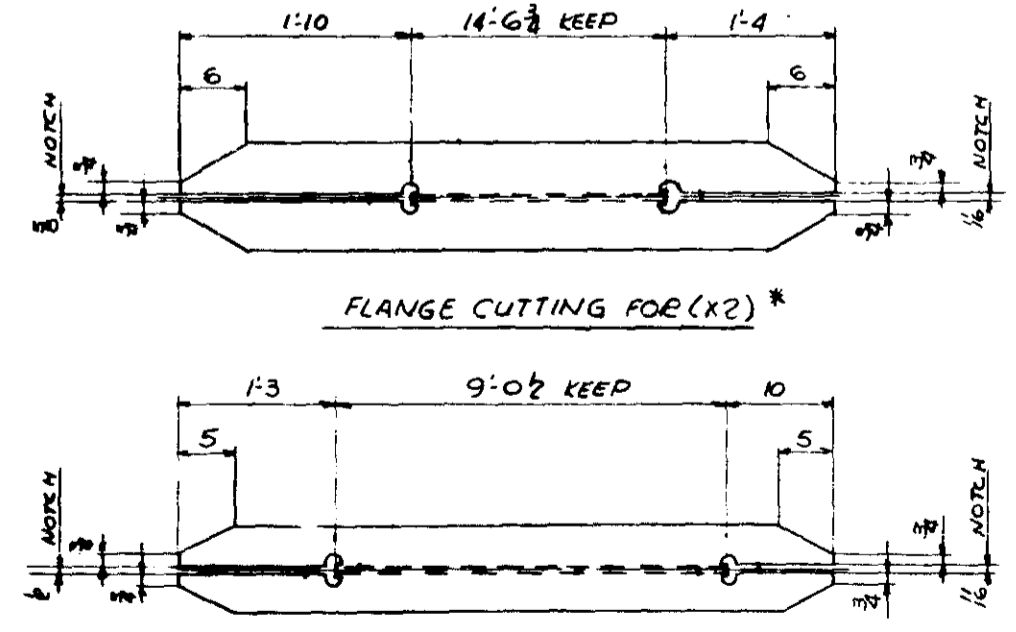
DETAILS OF STRINGERS - PP U20-U19
STRUCTURE BRIDGE No. 9340
LOCATION MINNEAPOLIS, MINNESOTA
OWNER MINNESOTA STATE HWY. DEPT.
CUSTOMER MINNESOTA STATE HWY. DEPT.

REF DWG E7	REVISIONS	△	△	△	△
CONTRACT 3192	FABCOD 274	SHEET 1704			



8 SHOP EW.

NO	LGTH
16	22
4	4
4	5 1/2
8	7 1/2



* SEE SHT. XI & X2 FOR BEVEL CUTS FOR WELDS

ITEM NO.	QTY	SHAPE	LENGTH	PC. MK.	REMARKS	ITEM NO.	BID ITEM	TOTAL WEIGHT	MHD. SPEC.
1									
2									
3									
4	1901A	ONE CANTILEVER	(100 x 21'6")						
5	1901A	ONE CANTILEVER	(100 x 21'6")						
6									
7									
8									
9	2	12WF53	21'5 1/2	X1		4501	59	2278	3506
10	2	10WF54	17'8 1/2	X2		4510		1918	
11	2	8WF35	11'1 1/2	X3		4517		779	
12	2	PL 30WF10B	4'1"	X4	M.F.L.G.	4602		882	
13	2	R 23 1/2 x 1/2	3'1 1/2	X5		4609		208	
14	2	R 19 x 1/2	2'4 1/2	X6		4609		115	
15	2	R 10 x 1/2	1'7 1/2	X7	4M	4609		83	
16	2	R 10 x 3/8	1'4"	X8		4609		39	
17	8	R 4 1/2 x 1/2	0'10 1/2	X9	MZE	4610		57	
18	4	FILL 10 x 1 1/2	1'3"	X10		4610		74	
19	4	FILL 6 x 3	0'9"	X11		4610		8	
20	8	R 4 1/2 x 1/2	0'10 1/2	X12	MZE	4610		55	
21	2	R 4 x 1 1/2	0'10"	X13		4609		38	
22	2	R 4 x 3/8	0'10"	X14	FIS	4609		74	
23	2	R 4 x 1/2	1'3 1/2	X15		4609		15	
24	2	R 4 x 1/2	1'3 1/2	X16		4609		65	
25	4	R 4 x 3/8	1'3 1/2	X17	FIS	4609	59	225	3506
26									
27									
28									
29	8	R			BA	SEE SHT. XI FOR DET.			
30									
31									
32									
33									
34									
35									
36									
37	2	1/4 WLD	24'10"						N.C.
38	2	5/8 WLD	3'18"						
39	2	3/8 WLD	23'0"						
40	2	1/2 WLD	17'4"						
41	2	3/4 WLD	0'5 1/2"						
42									
43	8	3/8 RIV	0'7 1/2"						
44	24	3/8 RIV							
45	10	SB							
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ALLIED STRUCTURAL STEEL COMPANY
ENGINEERS, FABRICATORS, ERECTORS
1000 15TH STREET, MINNEAPOLIS, MINN. 55403

MINN. PROJ. NO. I-G35W-3 (SB)112
STATE PROJ. NO. 2783-9340B (TH35W-394)

DIVISION 19
CLINTON - FAB

DETAILS OF: CANTILEVER @ U14
STRUCTURE: BRIDGE NO. 9340
LOCATION: MINNEAPOLIS, MINNESOTA
OWNER: MINNESOTA STATE HWY. DEPT.
CUSTOMER: MINNESOTA STATE HWY. DEPT.

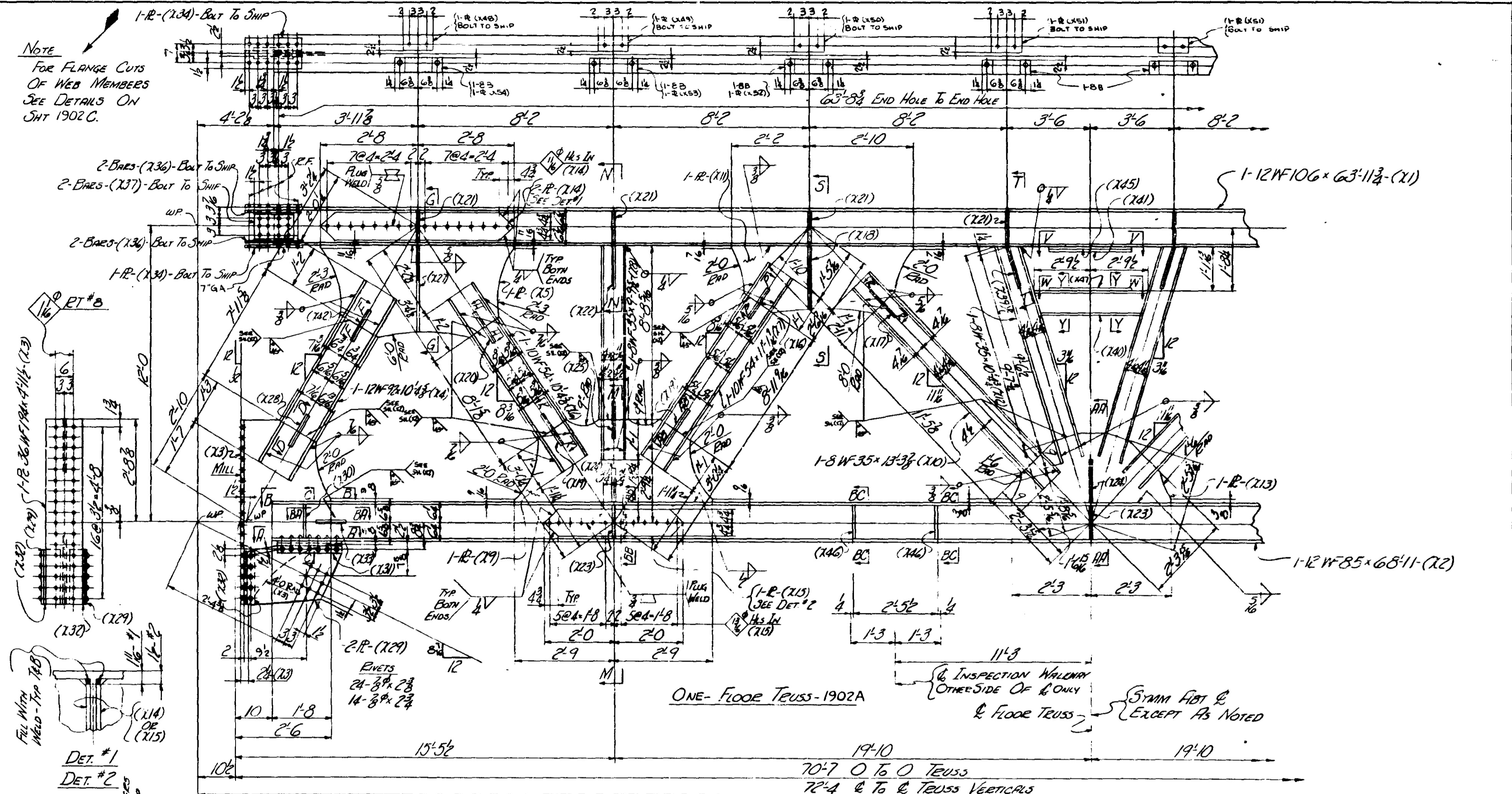
OPEN HOLES: 1 1/2" UN. NUTS & BOLTS: 3/8" PAINT: YES, SEE SHT. GNI

DRAWN BY: *GH* DATE: 3-1-66 CHECKED BY: *H.M.H.* DATE: 5-2-66

REF. E12 REVISIONS: *2-18-67* *RE-EN.* *RE-EN.* *RE-EN.*

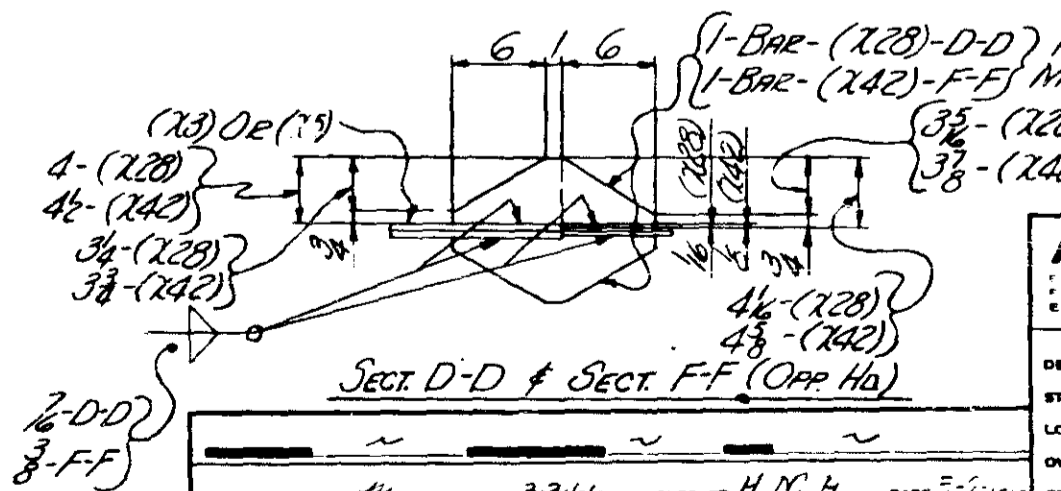
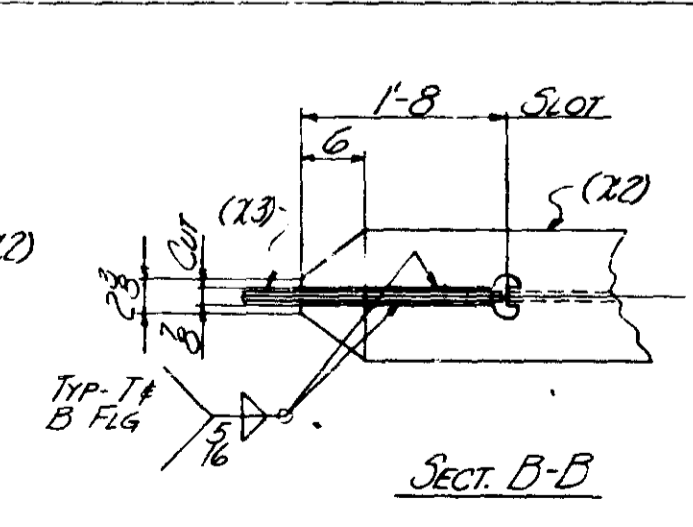
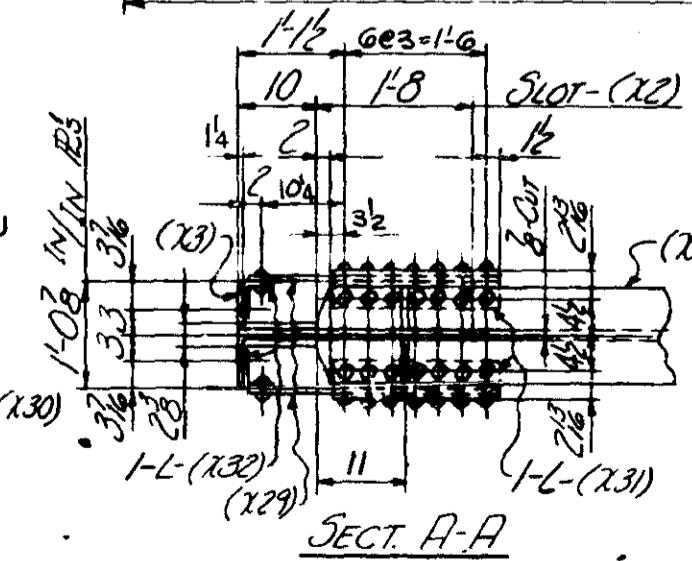
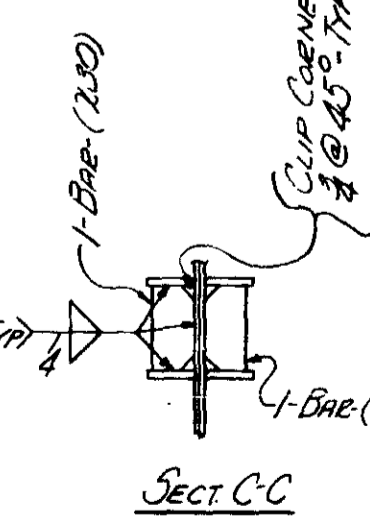
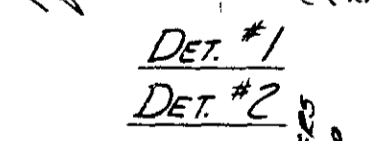
CONTRACT: 3142 FABCOD: 244 SHEET: 1901

NOTE
FOR FLANGE CUTS
OF WEB MEMBERS
SEE DETAILS ON
SHT 1902 C.



ONE-FLOOR TRUSS-1902A

INSPECTION WALKWAY
OTHER SIDE OF R ONLY
& FLOOR TRUSS
SYMM ABT &
EXCEPT AS NOTED

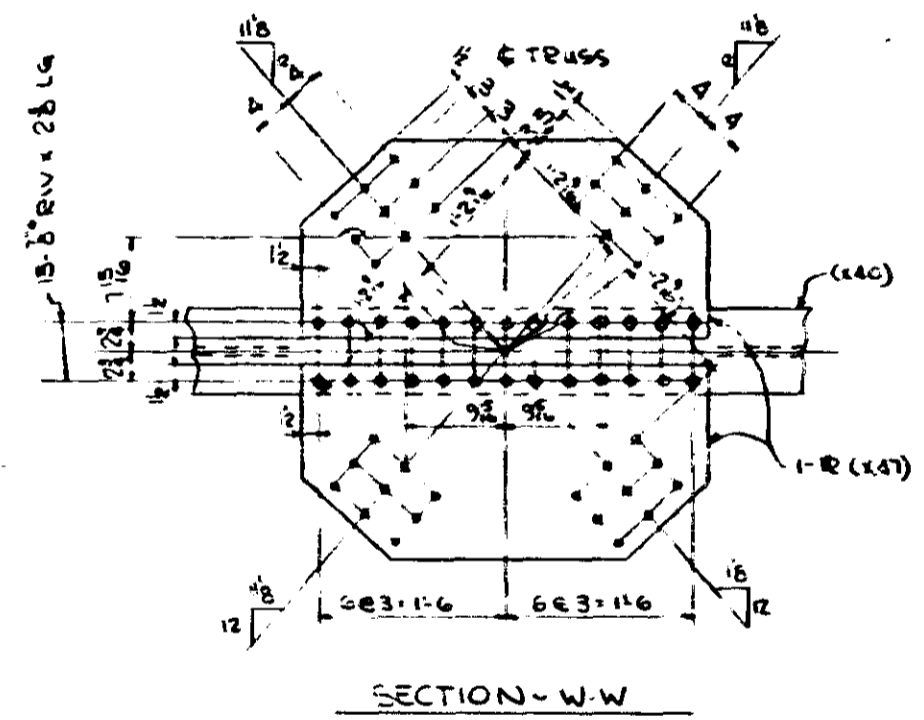
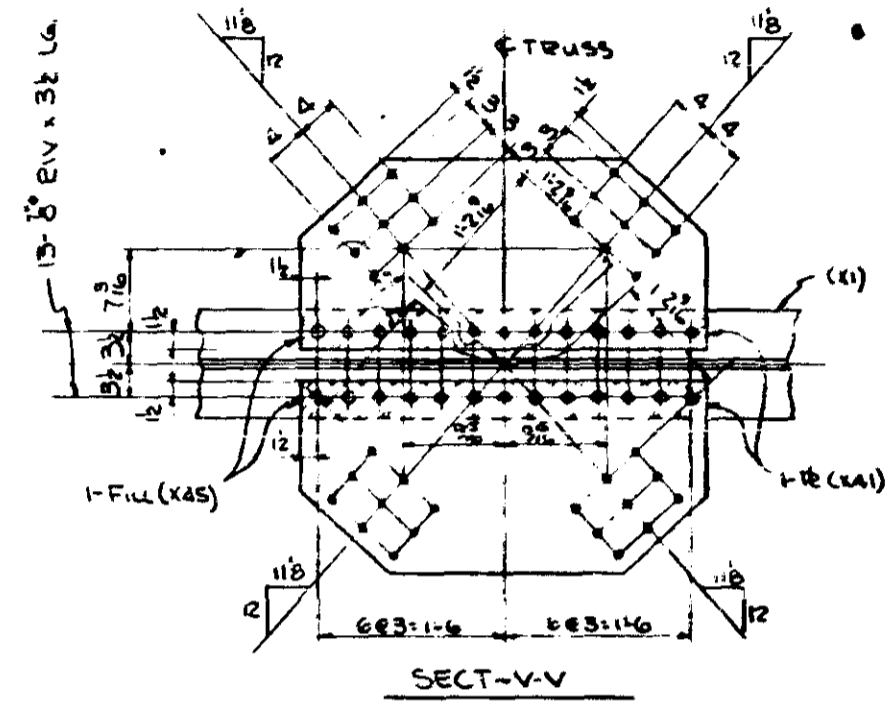
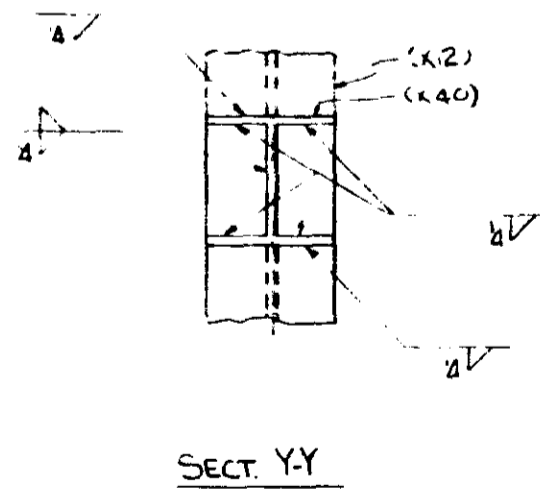
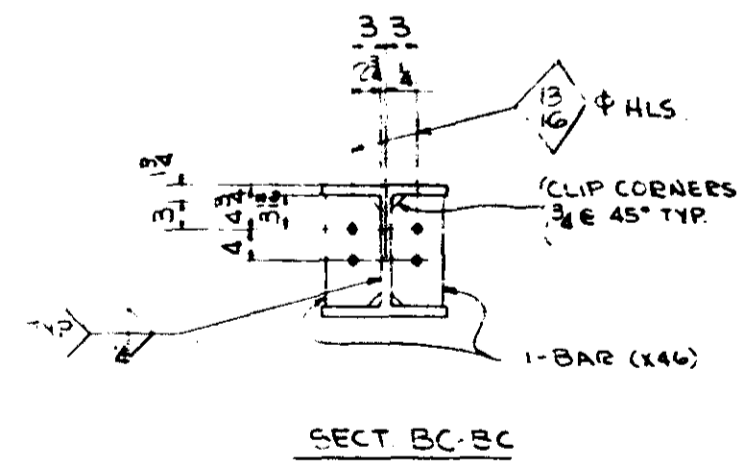
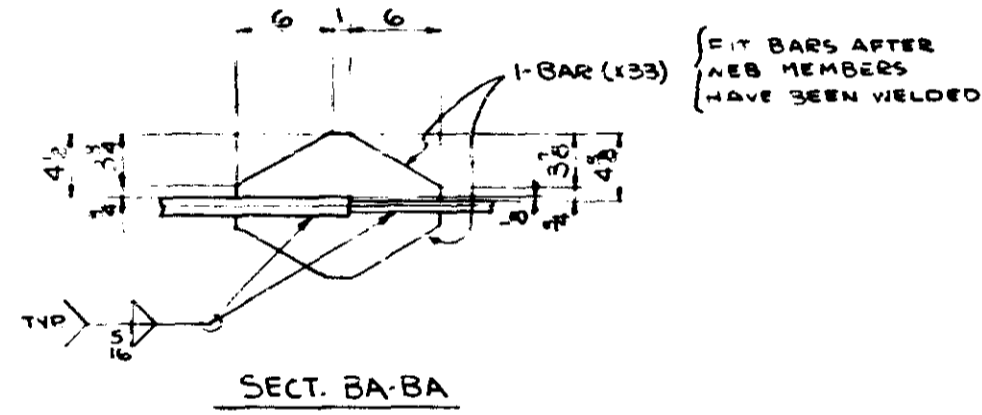
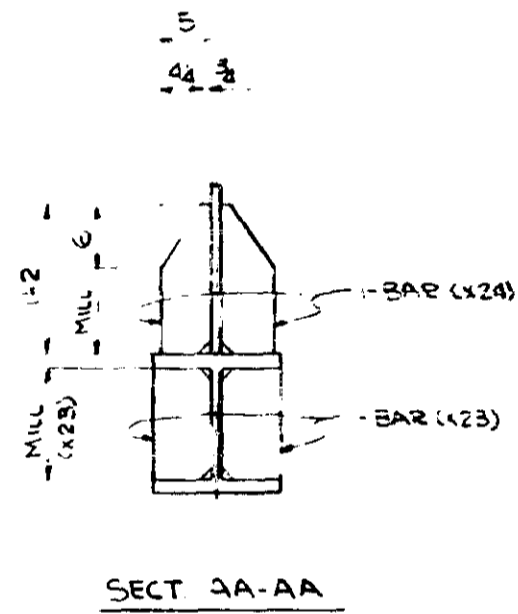
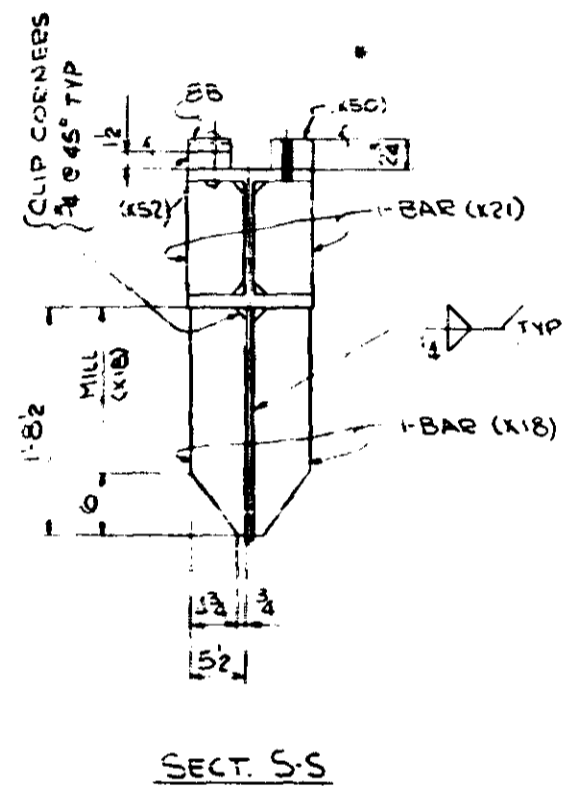
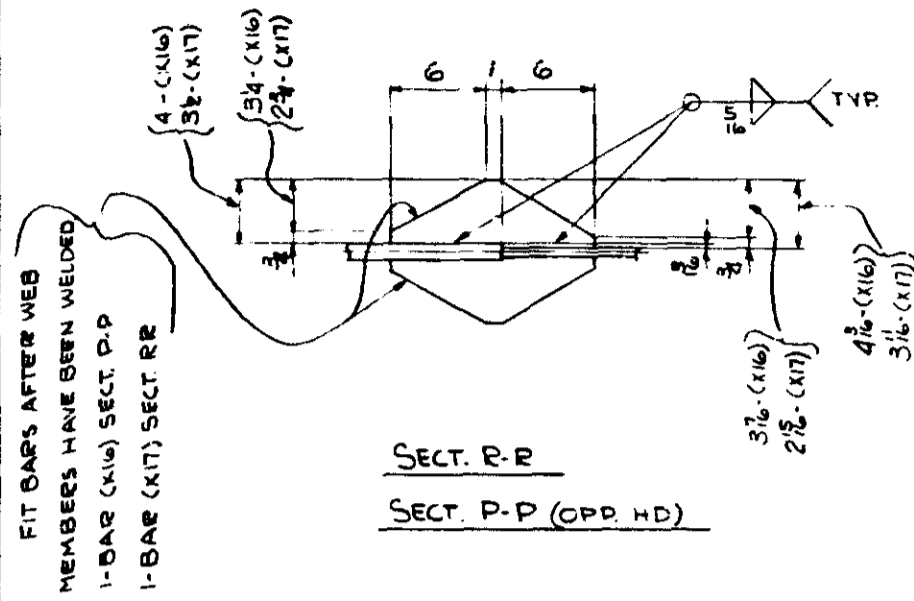


MINN. DOT HS 1-1635W-3(CS)112
STATE PROJ. NO. 2783-9340B (TH 35W-394)

ALLIED STRUCTURAL STEEL COMPANY
1111 15TH STREET S.W. MINN. APOLIS, MINN.

DETAILS OF FLOOR TRUSS @ U1A
STRUCTURE BRIDGE No. 9340
LOCATION MINNEAPOLIS, MINN.
OWNER MINN. STATE HWY DEPT
CUSTOMER MINN. STATE HWY DEPT

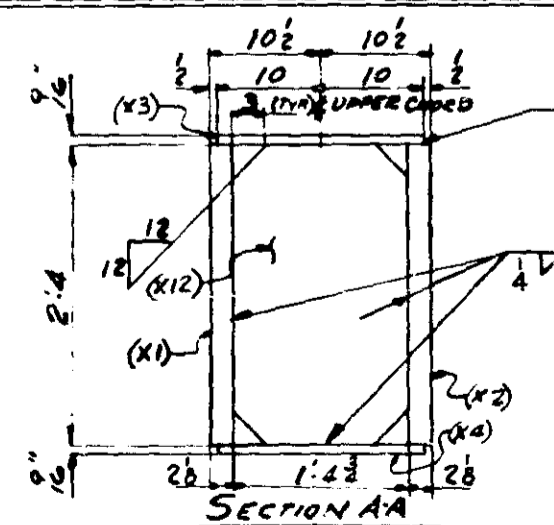
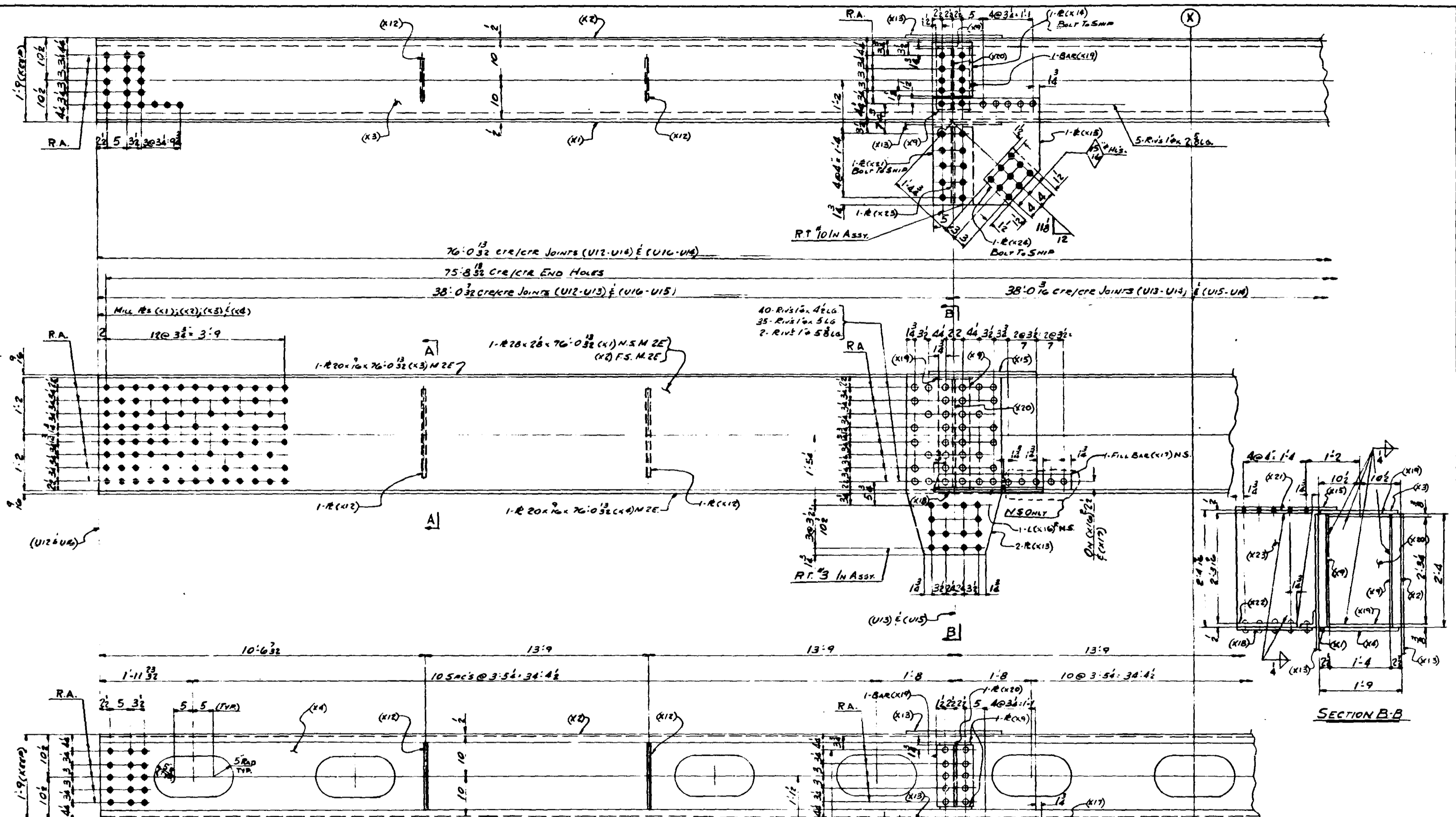
DRAWN BY	DATE 3-3-66	CHECKED BY H.M.H.	DATE 3-2-66
REVISIONS	1-9-61	2-1-61	3-1-61
CONTRACT	3142	FABCOD	244
			SHEET 902 AC



MINN. PROJ. NO. 2-IG-35W-3(58)112
 STATE PROJ. NO. 27B3-9340B (TH 35W-39W)

ALLIED STRUCTURAL STEEL COMPANY
 FABRICATORS & ERECTORS

REVISIONS	DRAWN BY <u>JH</u> DATE <u>3-3-66</u>	DETAILS OF <u>FLOOR TRUSS @ UM</u>
	CHECKED BY <u>H.M.H.</u> DATE <u>5-2-66</u>	STRUCTURE <u>BRIDGE NO 9340</u>
	IN CHARGE OF <u>J. NEWELL</u>	LOCATION <u>MINNEAPOLIS, MINNESOTA</u>
	FAB. PLANT <u>CLINTON</u>	OWNER <u>MINNESOTA STATE HWY. DEPT.</u>
	REFERENCE DWGS <u>E12</u>	
	CONTRACT <u>3142</u>	DIV. <u>19</u> ABCOD <u>244</u> SHEET <u>1902 BC</u>



- ONE - UPPER CHORD - 1905 U12-U14W (AS SHOWN & NOTED)
- ONE - UPPER CHORD - 1905 U12-U14E (Opp. HAND AS NOTED)
- ONE - UPPER CHORD - 1905 U16-U14E (AS SHOWN & NOTED)
- ONE - UPPER CHORD - 1905 U16-U14W (Opp. HAND AS NOTED)

10-Rivs in 28" C.G.
8-Rivs in 28" C.G.
7-Rivs in 28" C.G.

MINN. PROJ. NO. J-7635W-3(50)112
STATE PROJ. NO. 2783-9340B(TN45W-594)

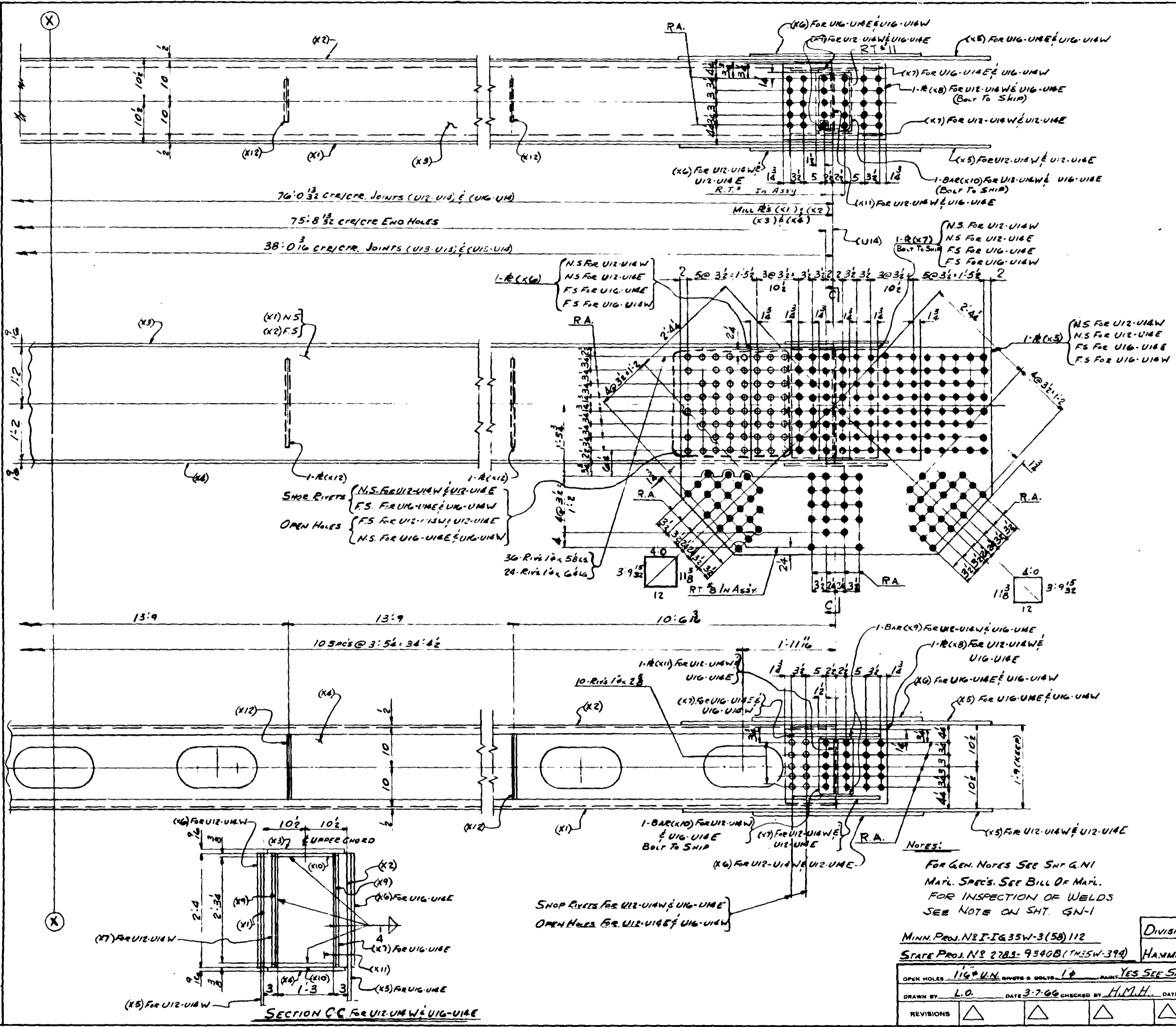
ALLIED STRUCTURAL STEEL COMPANY
ENGINEERS
FABRICATORS
REGIONS

DETAILS OF UPPER CHORD (U12-U14) E (U16-U14)
STRUCTURE: BRIDGE #9340

LOCATION: MINNEAPOLIS, MINNESOTA
OWNER: MINNESOTA STATE HWY. DEPT.

DRAWN BY: L.O. DATE: 3-5-66
CHECKED BY: H.M.H. DATE: 5-2-66
IN CHARGE OF: J. NEWELL
FAB. PLANT: HAMMOND
REFERENCE DWGS:

CONTRACT 3142 DIV. 19 FACOD 215 SHEET 1905AB



LINE	SHIP MK	NO	RECD	SHAPE	LENGTH	PC	REMARKS	ITEM NO	TOTAL WEIGHT	W. L.P.	
1											
2		ONE		UPPER CHORD-1905 U12-U16 W							
3		ONE		UPPER CHORD-1905 U12-U16 E							
4		ONE		UPPER CHORD-1905 U16-U17 E							
5		ONE		UPPER CHORD-1905 U16-U17 W							
6											
7		4		R 28x28	76'0 13/32	X1	M.ZE	4208	60	4524	3309
8		4		R 28x28	76'0 13/32	X2	M.ZE	4208	60	4524	3309
9		4		R 20x16	76'0 13/32	X3	M.ZE	4208	61	11623	3310
10		4		R 20x16	76'0 13/32	X4	M.ZE	4208	61	11623	3310
11		4		R 52x1	6'52	X5		4208	60	4626	3309
12		4		R 28x1	3'68	X6		4208	60	1349	3309
13		4		R 27x2	1'92	X7		4208	61	335	3310
14		4		R 19x3	2'12	X8		4208	61	206	3310
15		12		BAR 7/8 x 8	2'4	X9		4216	59	208	3306
16		4		BAR 8 x 8	1'3	X10		4217	59	51	3306
17		2		R 15x2	2'34	X11		4218	59	116	3306
18		16		R 16x3	2'4	X12		4313	59	797	3306
19		8		R 23x2	3'72	X13		4208	59	1139	3306
20		4		R 10x3	1'24	X14		4212	59	61	3306
21		4		R 27x3	2'34	X15		4209	59	313	3306
22		4		R 4x4	2'34	X16		4210	59	69	3306
23		4		FILL BAR 1/2 x 1/2	1'52	X17		4211	59	40	3306
24		4		R 20x3	2'34	X18		4312	59	232	3306
25		8		BAR 8 x 8	1'4	X19		4215	59	109	3306
26		4		R 10x2	2'34	X20		4215	59	247	3306
27		4		R 10x2	1'72	X21		4308	59	111	3306
28		4		R 10x2	1'32	X22		4309	59	88	3306
29		4		R 19x2	2'34	X23		4310	59	278	3306
30		4		R 9x16	0'11	X24	BRASS	MA103	59	9	3331
31		W2		R 1/2 x 1/2							
32		96		R 1/2 x 1/2	0'64						
33											
34		48		S.B. 1/2"							
35		4		3/8 WLD	304	1					
36		2		1/2 WLD	25	32					
37		2		1/2 WLD	38	11					
38											
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53											
54				BID ITEM	59		3892				
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56					60		29223				
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58					61		23807				
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ALLIED STRUCTURAL STEEL COMPANY
 1225 12TH STREET, MINNEAPOLIS, MINN. 55402

DETAILS OF UPPER CHORD (U12-U16) & (U16-U17)
 STRUCTURE BRIDGE NO 9340
 LOCATION MINNEAPOLIS, MINNESOTA
 OWNER MINNESOTA STATE HWY. DEPT.
 CUSTOMER MINNESOTA STATE HWY. DEPT.

MINN. PROJ. NO. I-G 35W-3(58)112
 STATE PROJ. NO. 2783-9340B (TMSW-394)

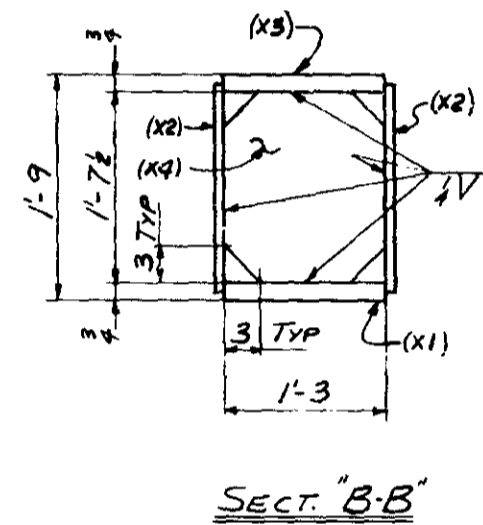
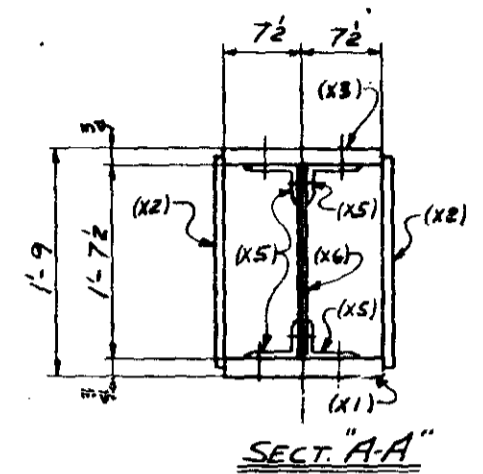
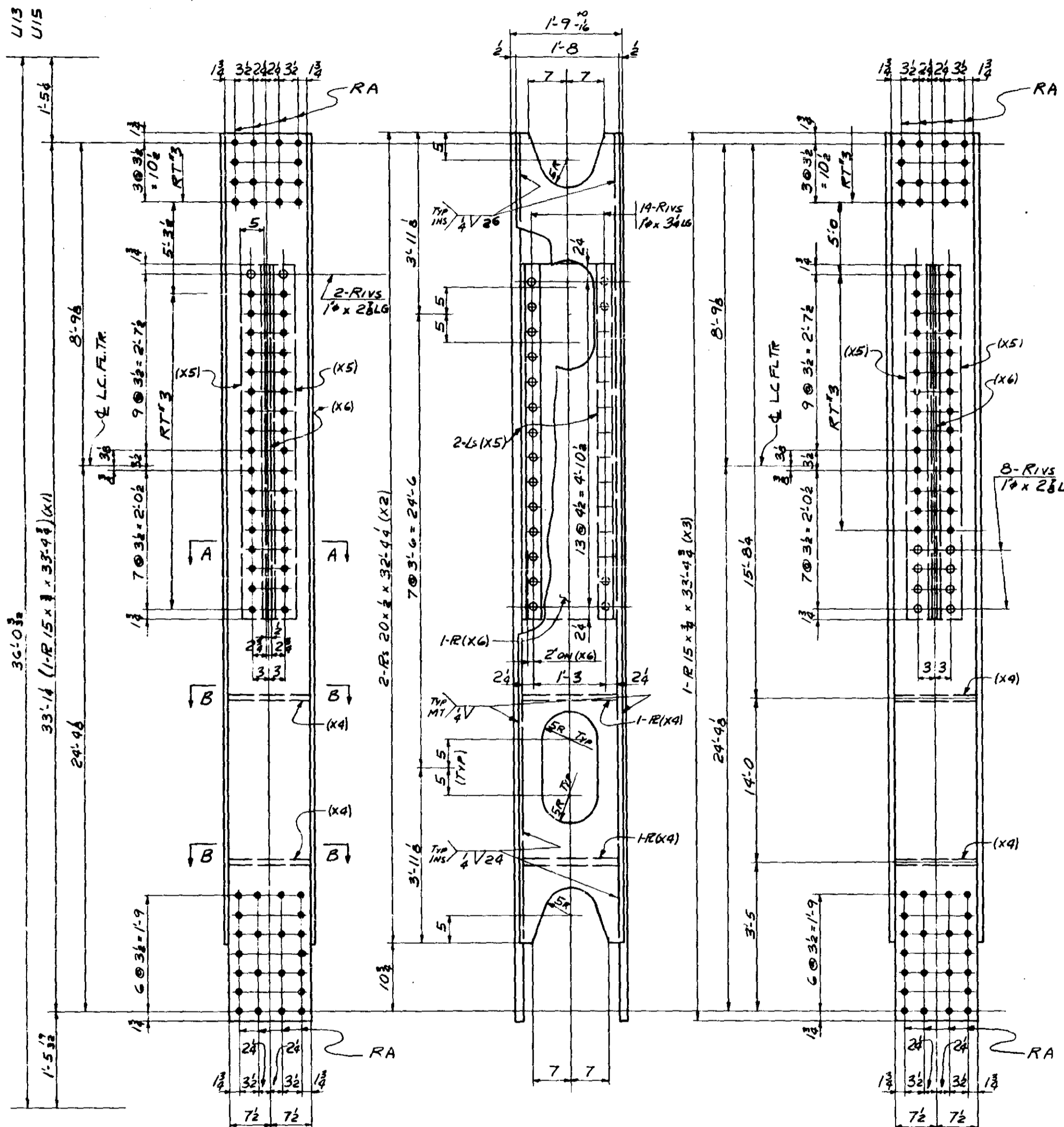
DIVISION #19
 HANMOND G.B.

OPEN HOLES 1 1/4" DIA. WELDS & BOLTS 1" DIA. YES SEE SH. G.N.1

DRAWN BY L.O. DATE 3-7-66 CHECKED BY H.M.H. DATE 5-2-66

REVISIONS

CONTRACT 3142 FABCOD 215 SHEET 1905B



SHOP RIVETS	
40 1/4 RIV x 2 3/16	NC
112 1/4 RIV x 3/8	NC

SHOP NOTE
 FOR GEN NOTES SEE GNI
 FOR MATL SPECS SEE BILL OF MATL
 FOR INSPECTION OF WELDS SEE NOTE
 ON SHT GNI

ONE VERTICAL 1906 L13-U13E
 ONE do 1906 L13-U13W
 ONE do 1906 L15-U15E
 ONE do 1906 L15-U15W
 ALIKE EXCEPT FOR MARKS

NO.	SHIP MK.	NO. REQD.	SHAPE	LENGTH	PC. MK.	REMARKS	ITEM NO.	TOTAL WEIGHT
1							BID ITEM	
2								
3			ONE VERTICAL	1906 L13-U13E		(2) x 33'-6"		
4			ONE do	1906 L13-U13W				
5			ONE do	1906 L15-U15E				
6			ONE do	1906 L15-U15W				
7								
8		4	R 15 x 3	33' 4 1/2"	X1		402 61	510 3310
9		8	R 20 x 3	32' 4 1/2"	X2		403 61	8800 3310
10		4	R 15 x 3	33' 4 1/2"	X3		402 61	5110 3310
11		8	R 15 x 3	1' 7 1/2"	X4		404 59	249 3306
12		16	L 5 x 3 1/2 x 1/2	5' 3"	X5		405 59	1182 3306
13		4	R 19 x 2	5' 3"	X6		406 59	678 3306
14								
15								
16		4	WLD	151' 6"				NC
17		152	1" RIV					NC
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51			BID ITEM	59		2069		
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53			BID ITEM	61		19020		
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ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS FABRICATORS ERECTORS
 1215 19TH STREET, HAMMOND, INDIANA 46320

DETAILS OF TRUSS VERTICAL
 STRUCTURE BRIDGE No 9340
 LOCATION MINNEAPOLIS MINNESOTA
 OWNER MINN STATE HWY DEPT
 CUSTOMER MINN STATE HWY DEPT

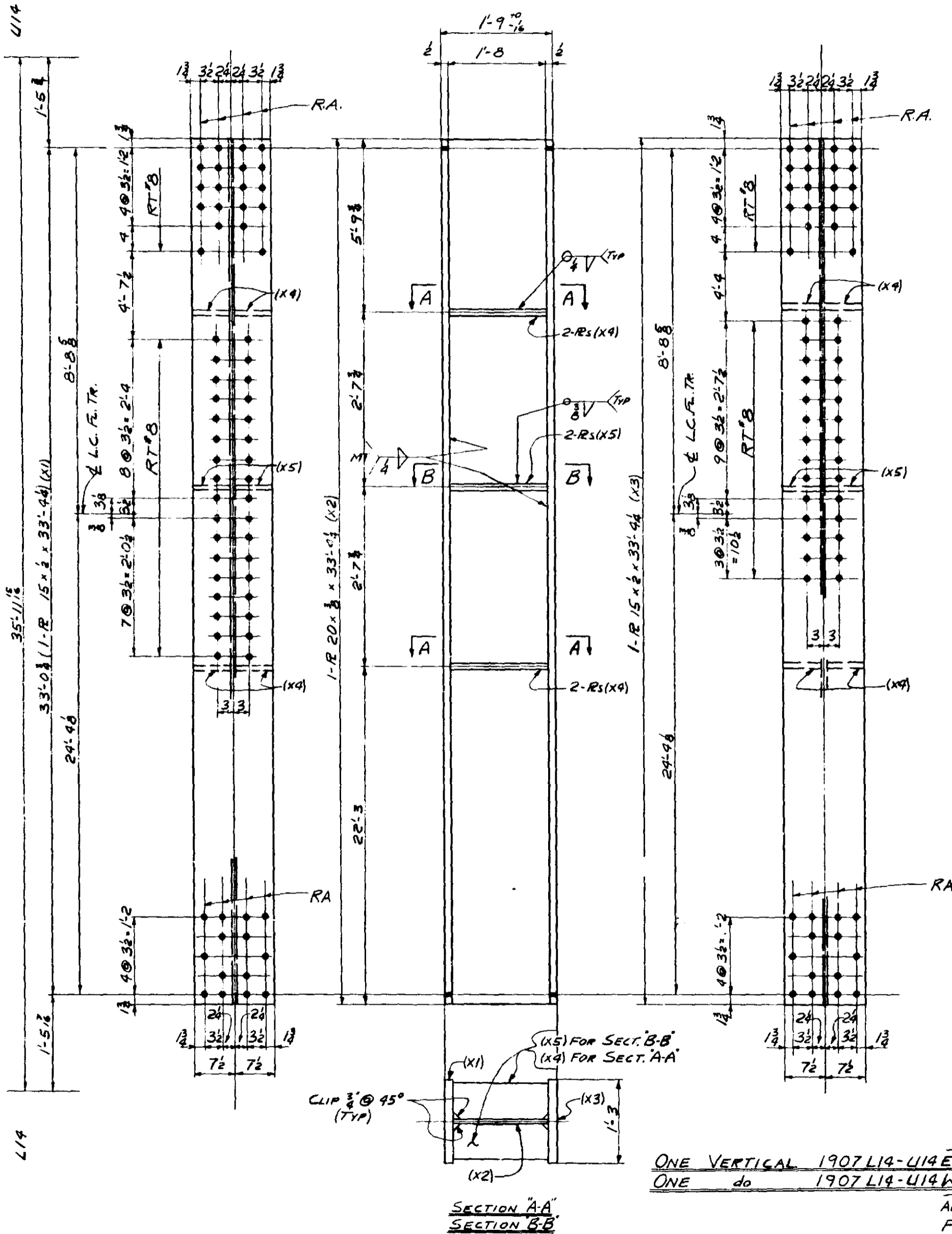
DIVISION #19
 HAMMOND FAB MINN PROJ No FIG 35W-3(58)112
 STATE PROJ No 27B3-7340B(TN 35W-399)

OPEN HOLES 1/16" RIVETS & PAINT YES SEE SHT GNI

DRAWN BY MP DATE 2-18-66 CHECKED BY L.O. DATE 4-5-66

REVISIONS [Diagrams]

CONTRACT 3142 FARCOD 214 SHEET 1906



SHOP NOTE
FOR GEN NOTES SEE GNI
FOR MATL SPECS SEE BILL OF MATL
FOR INSPECTION OF WELDS SEE
NOTE ON SHF GNI

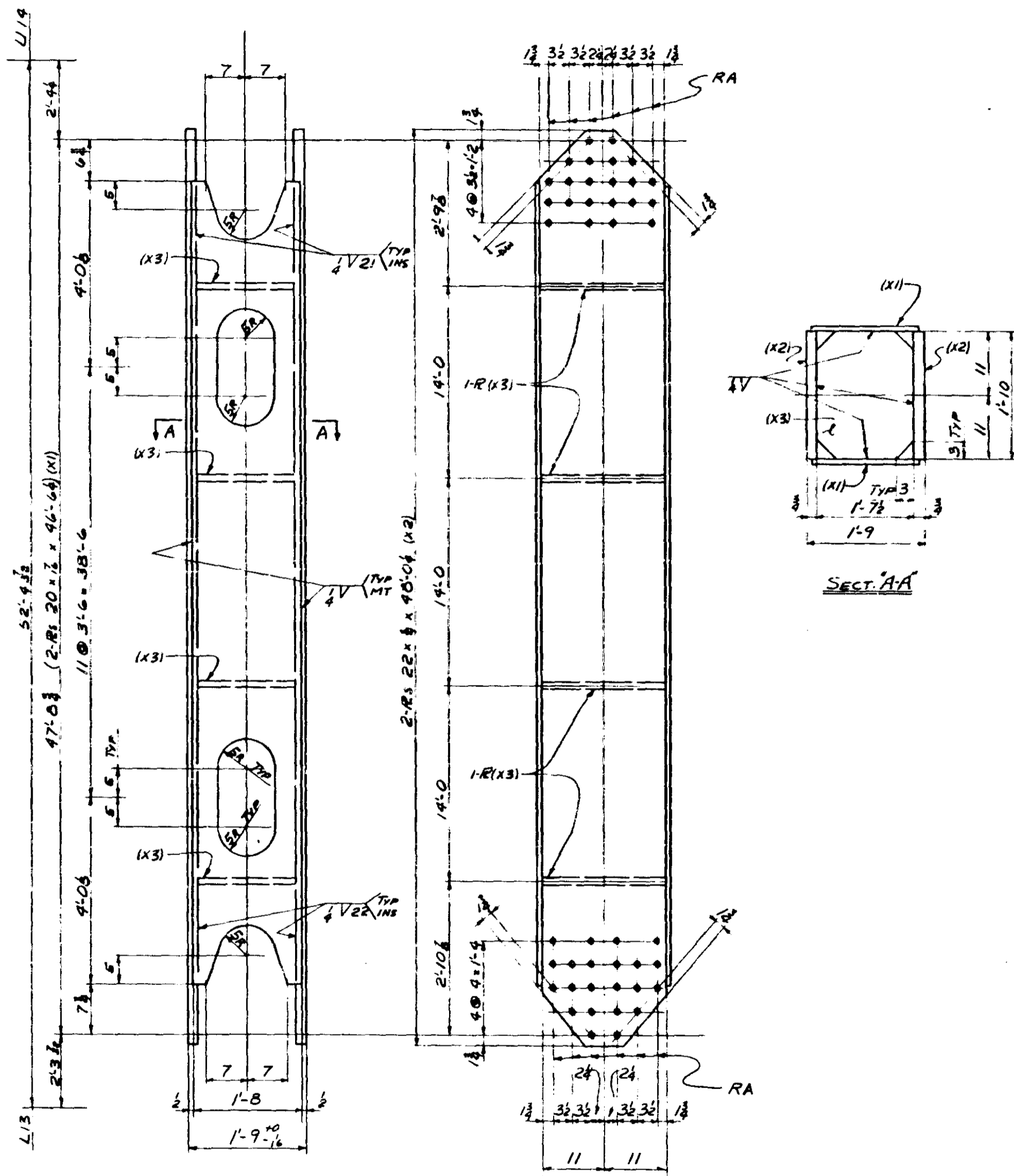
DIV #19	MINN PROJ No 216 35W-3 (58) 112
HAMMOND FAB	STATE PROJ No 2783-9390B (TN 35W-394)
OPEN HOLES 1/8"	RIVETS & BOLTS PAINT YES SEE SHF GNI
DRAWN BY MP	DATE 3/15/66 CHECKED BY L.O. DATE 4/5/66
REVISIONS	△ △ △ △

ALLIED STRUCTURAL STEEL COMPANY
1125 NORTH STREET HAMMOND, INDIANA 46320

DETAILS OF TRUSS VERTICAL
BRIDGE No 9380
LOCATION MINNEAPOLIS MINNESOTA
OWNER MINN STATE HWY DEPT
CUSTOMER MINN STATE HWY DEPT

CONTRACT 3142 FABCOD 235 SHEET 1907

ITEM NO	SHIP MK	NO REQ	SHAPE	LENGTH	PC MK	REMARKS	ITEM NO	TOTAL WEIGHT
1							BID	N/C
2							1787	
4	ONE		VERTICAL	1907 L14-U14E		(21 x 33'-5)		
5	ONE		do	1907 L14-U14W				
7	2		R 15 x 6	33' 4 1/2	X1	UM	410	61 170' 3310
8	2		R 20 x 6	33' 4 1/2	X2	UM	411	61 170' 3310
9	2		R 15 x 6	33' 4 1/2	X3	UM	410	61 170' 3310
10	8		R 7 x 3/4	1' 8"	X4		7806	59 159 3306
11	4		R 7 x 3/4	1' 8"	X5		7806	59 119 3306
12	2		1/2 WLD	143' 9"				N/C
13	2		1/2 WLD	5' 8"				N/C
49			BID ITEM	59		278		
51			BID ITEM	61		5103		



- ONE - DIAGONAL - 1908 L13-U19E
- ONE - do - 1908 L13-U19W
- ONE - do - 1908 L15-U19E
- ONE - do - 1908 L15-U19W

ALIKE EXCEPT FOR MARKS

SHOP NOTE
 FOR GEN NOTES SEE GNI
 FOR MATL SPECS SEE BILL OF MATL
 FOR INSPECTION OF WELOS SEE NOTE ON SHT GNI

ITEM NO.	QTY	SHAPE	LENGTH	PC NR.	REMARKS	ITEM NO.	TOTAL WEIGHT
1							
2							
3							
4	ONE	DIAGONAL	1908 L13-U19E				(22 x 48.0)
5	ONE	do	1908 L13-U19W				
6	ONE	do	1908 L15-U19E				
7	ONE	do	1908 L15-U19W				
8	8	R 20 x 1/2	46.64 X1		#16	59	110.72 3306
9	8	R 22 x 3/4	48.04 X2		#16	59	2155.2 3306
10	16	R 19 1/2 x 5/8	1.10 X3		#17	59	72.9 5306
11							
12							
13							
14	4	4 WLD	220.0				NC
15							
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ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS FABRICATORS Erectors
 1212 10TH STREET MINNEAPOLIS MINN 55404

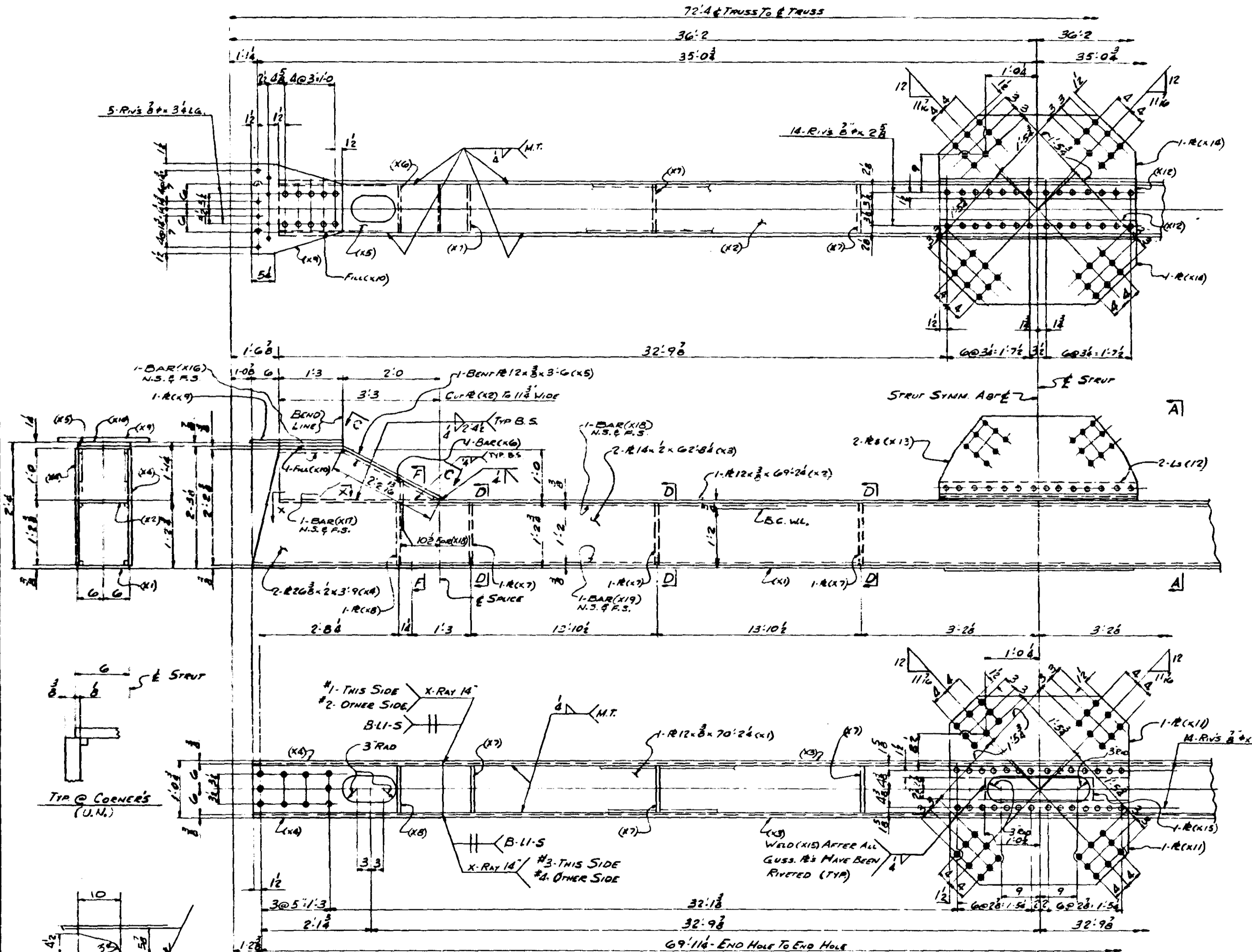
DETAILS OF TRUSS DIAGONAL
 STRUCTURE BRIDGE No 9390
 LOCATION MINNEAPOLIS MINNESOTA
 OWNER MINN STATE HWY DEPT.
 CUSTOMER MINN STATE HWY DEPT.

DIVISION 19 MINN PROJ No I-IG 35W 315B/12
 HAMMOND FAB STATE PROJ No 2783-9340B (TH 35W-399)

OPEN HOLES 1/2" RIVETS & BOLTS PAINT YES SEE SHT GNI
 DRAWN BY MP DATE 3/15/66 CHECKED BY L.A. DATE 4-5-66

REVISIONS Δ Δ Δ Δ

CONTRACT 3142 FABCOD 214 SHEET 1908



MINN. PROJ. NO. 2753-9340B (TH35W-394)
 STATE PROJ. NO. 2753-9340B (TH35W-394)

ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS, FABRICATORS, ERECTORS
 1237 15TH STREET, HARBOR, INDIANA 46340

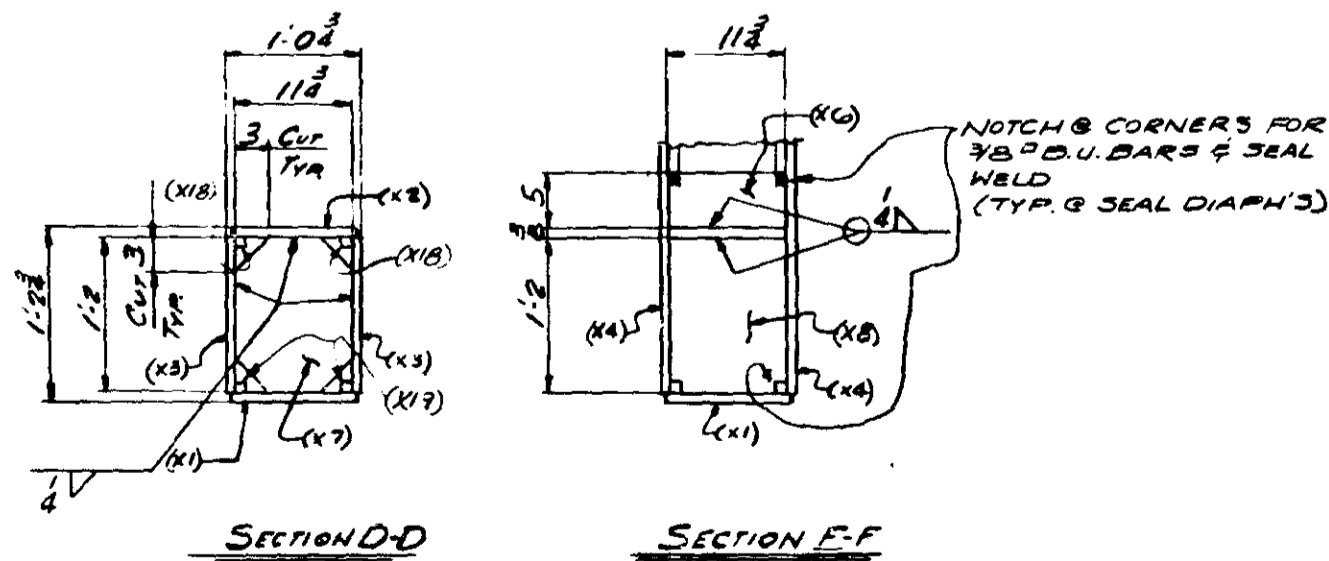
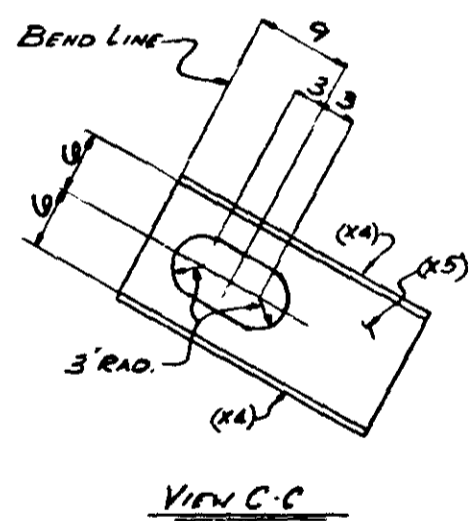
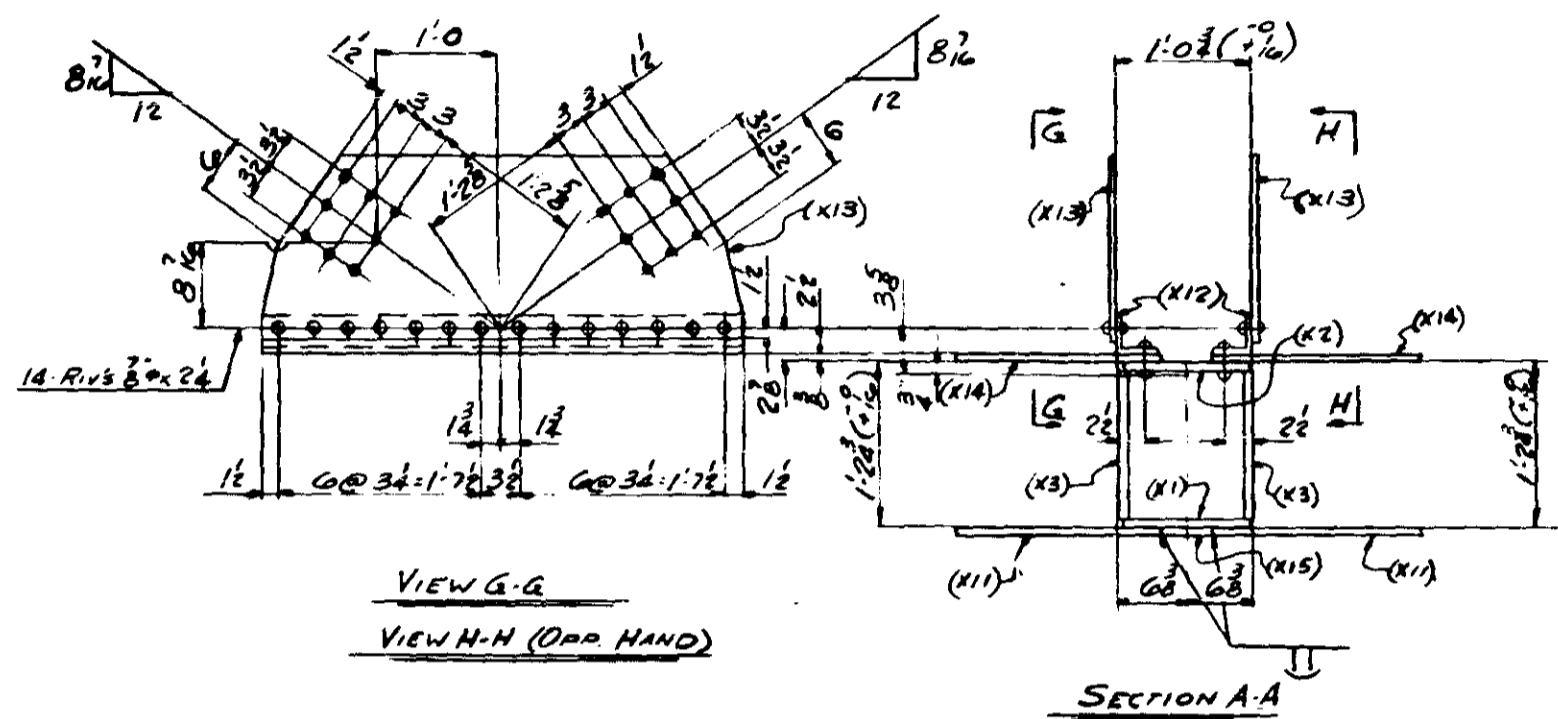
DETAILS OF BOTTOM STRUT @ L14
 STRUCTURE BRIDGE NT 990
 LOCATION MINNEAPOLIS, MINNESOTA
 OWNER MINNESOTA STATE HWY. DEPT.

REVISIONS	DATE	BY
1	3-15-66	L.O.
2	5-2-66	H.M.H.
DRAWN BY L.O. DATE 3-15-66		
CHECKED BY H.M.H. DATE 5-2-66		
IN CHARGE OF J. NEWELL		
FAB. PLANT. HAMMOND		
REFERENCE DWGS.		

CONTRACT 3142 DIV. 19 FABCOD 264 SHEET 1909AB

SECT. X-X

ONE - BOTTOM STRUT 1909A



NOTES:
 FOR GEN. NOTES SEE SMT. G. N1
 MATL. SPEC'S SEE BILL OF MATL.

ITEM NO.	SHIP NO.	NO. REQD.	SHAPE	LENGTH	PC. NO.	REMARKS	ITEM NO.	TOTAL WEIGHT	MIN. QTY.
1									
2			BOTTOM STRUT						
3		1	R 12x8	20 24	X1		4403 59	1079	3300
4		1	R 12x8	67 28	X2		4404 59	1059	3300
5		2	R 14x8	62 84	X3		4405 59	2984	3300
6		4	R 26x8	9 9	X4	7-CUTS 2	4406 59	628	3300
7		2	R 12x8	3 6	X5	BENT	4407 59	107	3300
8		2	BAR 5x3	0 11 1/2	X6		4408 59	13	3300
9		6	R 11x8	1 2	X7		4409 59	103	3300
10		2	R 11x8	1 2	X8		4409 59	35	3300
11		2	R 20x8	1 10 1/2	X9		4410 59	96	3300
12		2	R 12x8	1 3	X10		4411 59	89	3300
13		2	R 18x8	3 5 1/2	X11		4412 59	165	3300
14		2	R 14x8	3 9 1/2	X12		4413 59	74	3300
15		2	R 18x8	3 9 1/2	X13		4415 59	181	3300
16		2	R 19x8	3 9 1/2	X14		4415 59	186	3300
17		1	BAR 5x3	2 1	X15		4416 59	15	3300
18		104	RIV 3/8x3						
19		1	WLD.	320 0					
20									
21									
22									
23									
24									
25		2	BAR 3/8x3/8	1 3	X16		59		3300
26		2	BAR 3/8x3/8	2 2	X17				
27		2	BAR 3/8x3/8	4 5 1/2	X18				
28		2	BAR 3/8x3/8	70 2 1/2	X19				
29									
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32									
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ALLIED STRUCTURAL STEEL COMPANY
 FABRICATORS & ERECTORS
 1215 TENTH STREET, HARMON, INDIANA 46320

MINN. PROJ. NR I-IG35W-3(56) 112
 STATE PROJ. NR 2788-9340B (7N35W-390)

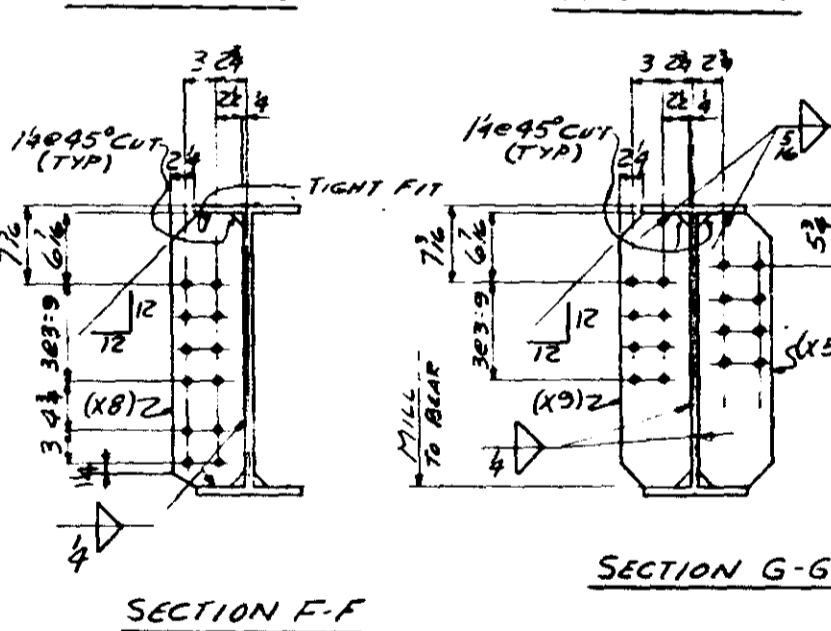
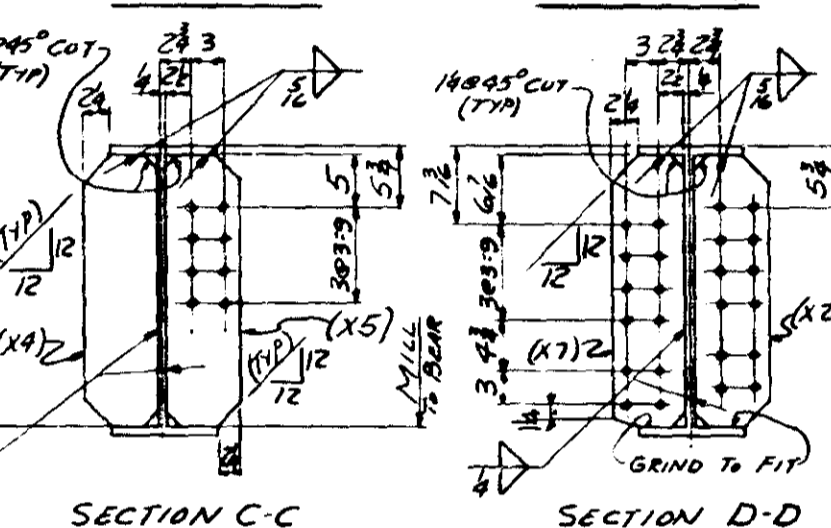
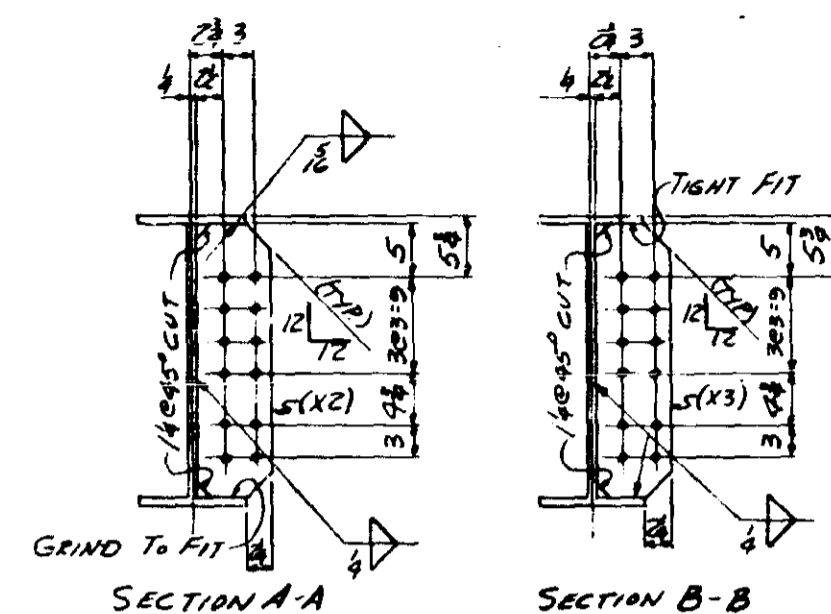
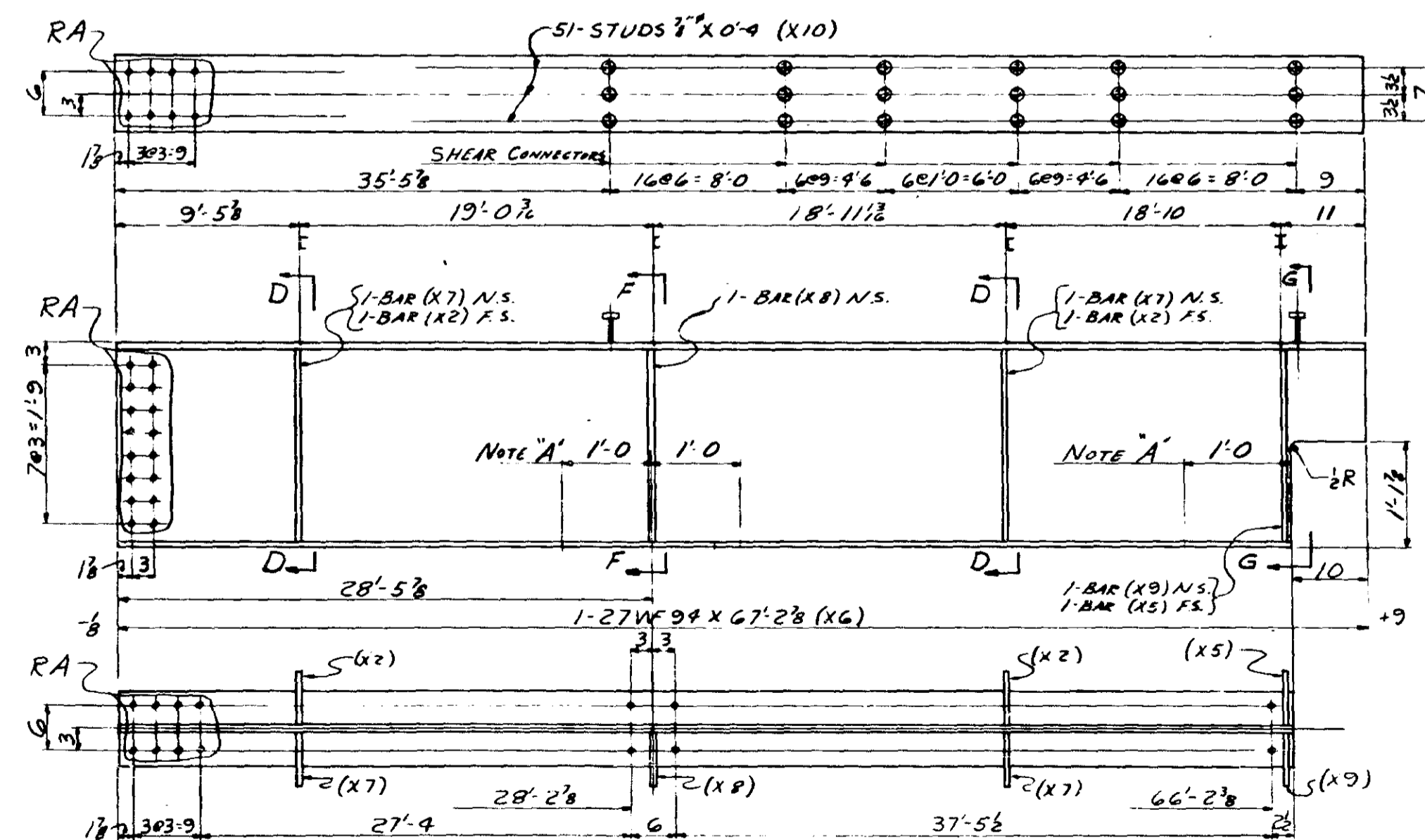
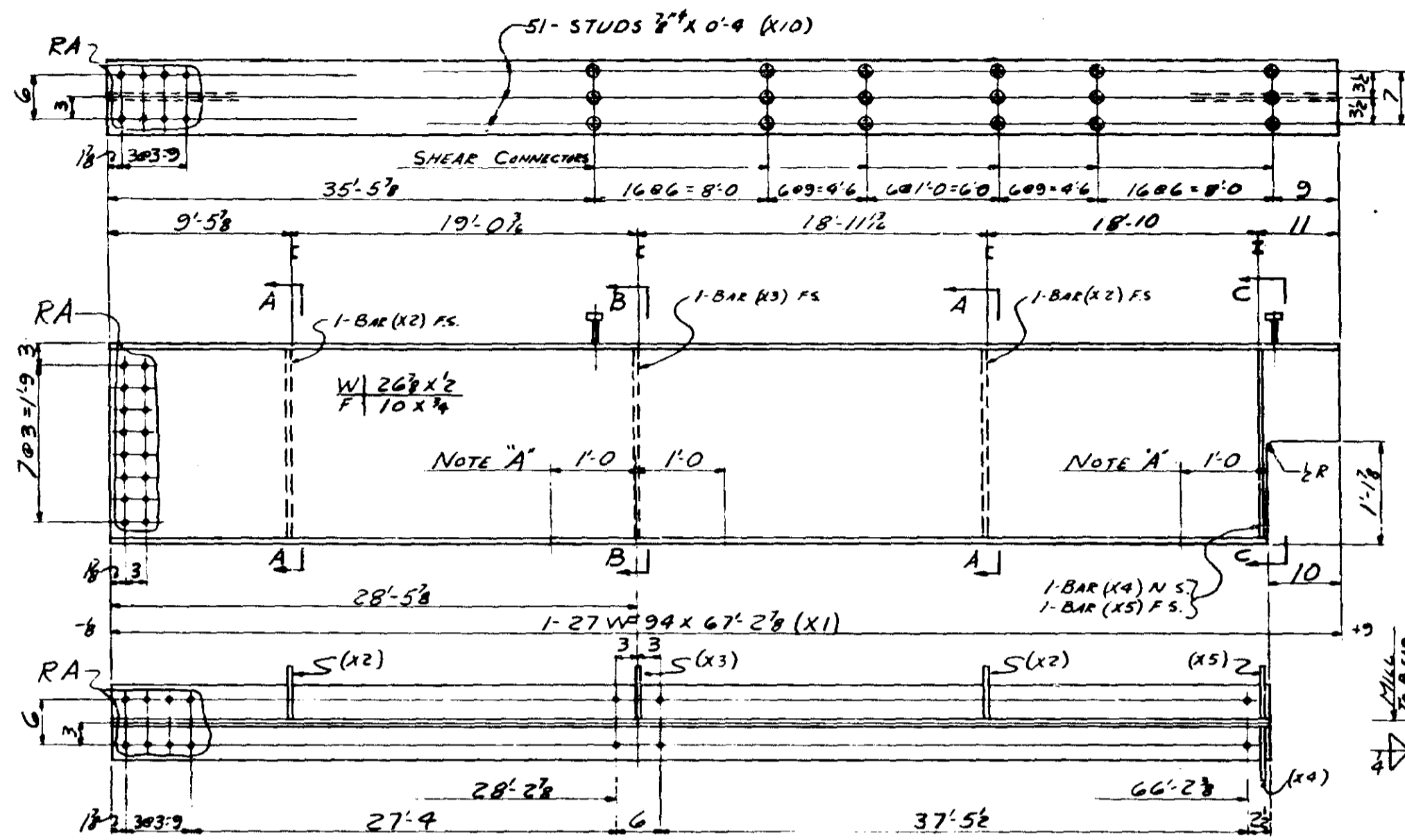
DIVISION 19
 HAMMOND FAB

DETAILS OF BOTTOM STRUT @ L14
 STRUCTURE BRIDGE NR. 9340
 LOCATION MINNEAPOLIS, MINNESOTA
 OWNER MINNESOTA STATE HIGH DEPT.
 CUSTOMER MINNESOTA STATE HIGH DEPT.

OPEN HOLES 1 1/2" RIVETS 3/8" PAINT YES SEE SMT. G. N1
 DRAWN BY L.A. DATE 3-15-66 CHECKED BY H.M.H. DATE 5-2-66

REVISIONS: A 11-22-66, B, C, D

CONTRACT 3142 FABCOD 264 SHEET 1909B



NOTE 'A'

BOTT. FLG. TO BE 90° TO WEB

SUPP. FOR DISTANCE INDICATED

SHOP NOTES:

FOR GEN. NOTES SEE SHT. G-1

FOR MATL. SPECS SEE BILL OF MATL.

MINN. PROJ. No. I-IG 35W-3 (58) 112

STATE PROJ. 27B3-9340B (74 35W-399)

NO.	SHIP MK.	NO. PROJ.	SHAPE	LENGTH	P.C. MK.	REMARKS	ITEM NO.	TOTAL WEIGHT	AREA
1									
2									
3									
4									
5									
6									
7									
8									
9	1910A ^B	2	STRINGER	(3) (67' 3")					
10	1910A ^L	2	Do	(3) (67' 3")					
11		4	27WF94	67' 2 1/2" X 1		59 59	2528	3306	
12		8	BAR 7 X 3/8	2 1/2" X 2		59 59	181	3306	
13		4	BAR 7 X 3/8	2 1/2" X 3		59 59	78	3306	
14		4	BAR 7 X 3/8	2 1/2" X 9	MIE	59 59	108	3306	
15		4	BAR 7 X 3/8	2 1/2" X 5	MIE	59 59	108	3306	
16		4	WLD	19' 8"					NE
17		4	WLD	2' 4"					NE
18									
19									
20									
21									
22									
23									
24									
25									
26	1910B ^B	One	STRINGER	(3) (67' 3")					
27	1910B ^L	One	Do	(3) (67' 3")					
28		2	27WF94	67' 2 1/2" X 6		59 59	1241	3306	
29		4	BAR	X 2		59 59	75	3306	
30									
31		2	BAR	X 6		59 59	50	3306	
32		4	BAR 7 X 3/8	2 1/2" X 7		59 59	75	3306	
33		2	BAR 7 X 3/8	2 1/2" X 8		59 59	58	3306	
34		2	BAR 7 X 3/8	2 1/2" X 9	MIE	59 59	50	3306	
35		300	STUDS 3/4"	7' 4" X 10	TYP 53F	59	186		
36		2	WLD	27' 3"					NE
37		2	WLD	3' 6"					NE
38									
39									
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ALLIED STRUCTURAL STEEL COMPANY

ENGINEERS FABRICATORS ERECTORS

1415 15TH STREET HARBOUR DISTRICT MINN.

DIVISION # 19

HAMMOND FAB

DETAILS OF STRINGERS - P.P. U13-U14

STRUCTURE BRIDGE No. 9340

LOCATION MINNEAPOLIS, MINNESOTA

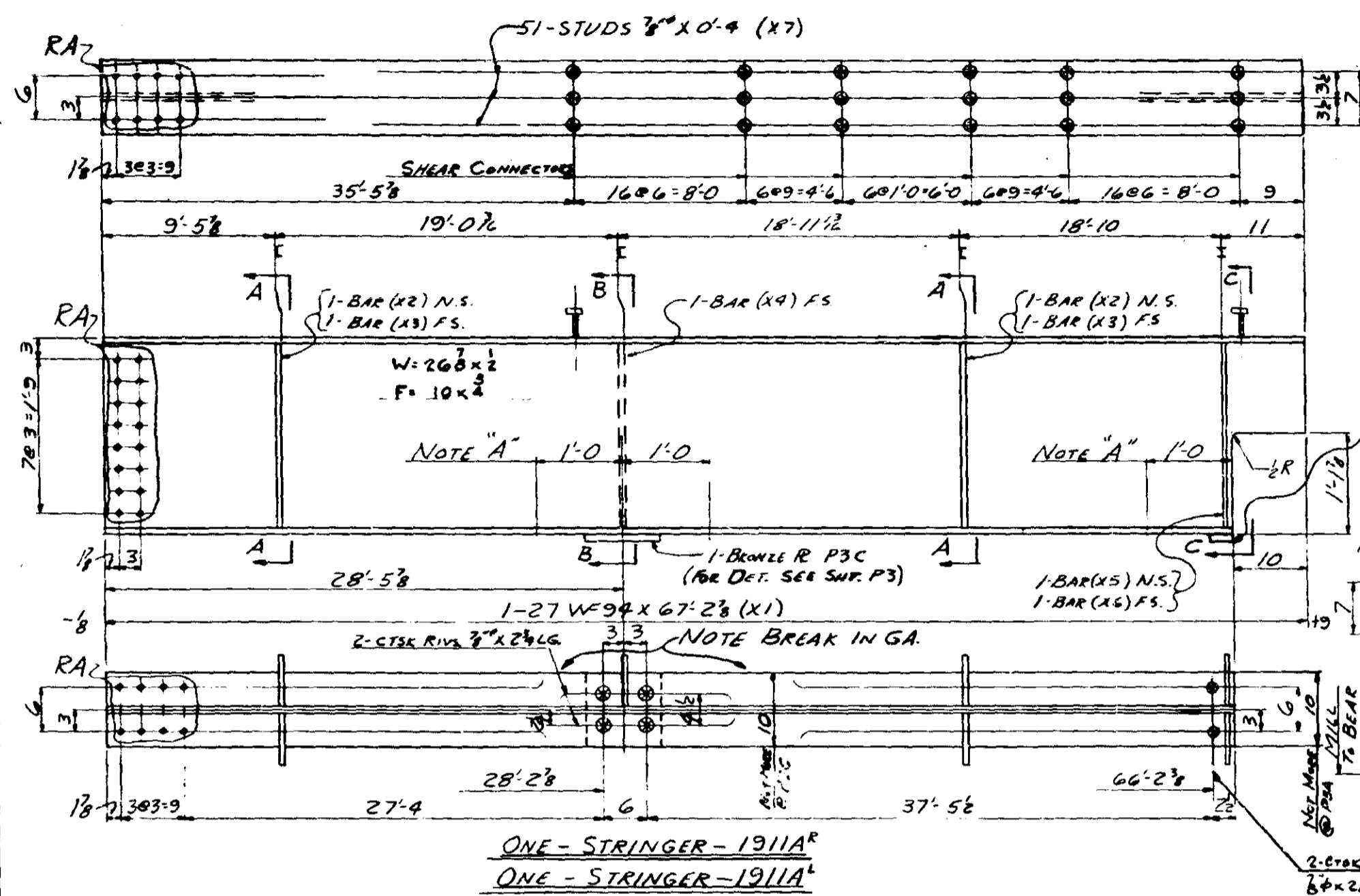
OWNER MINNESOTA STATE HWY. DEPT

CUSTOMER MINNESOTA STATE HWY. DEPT.

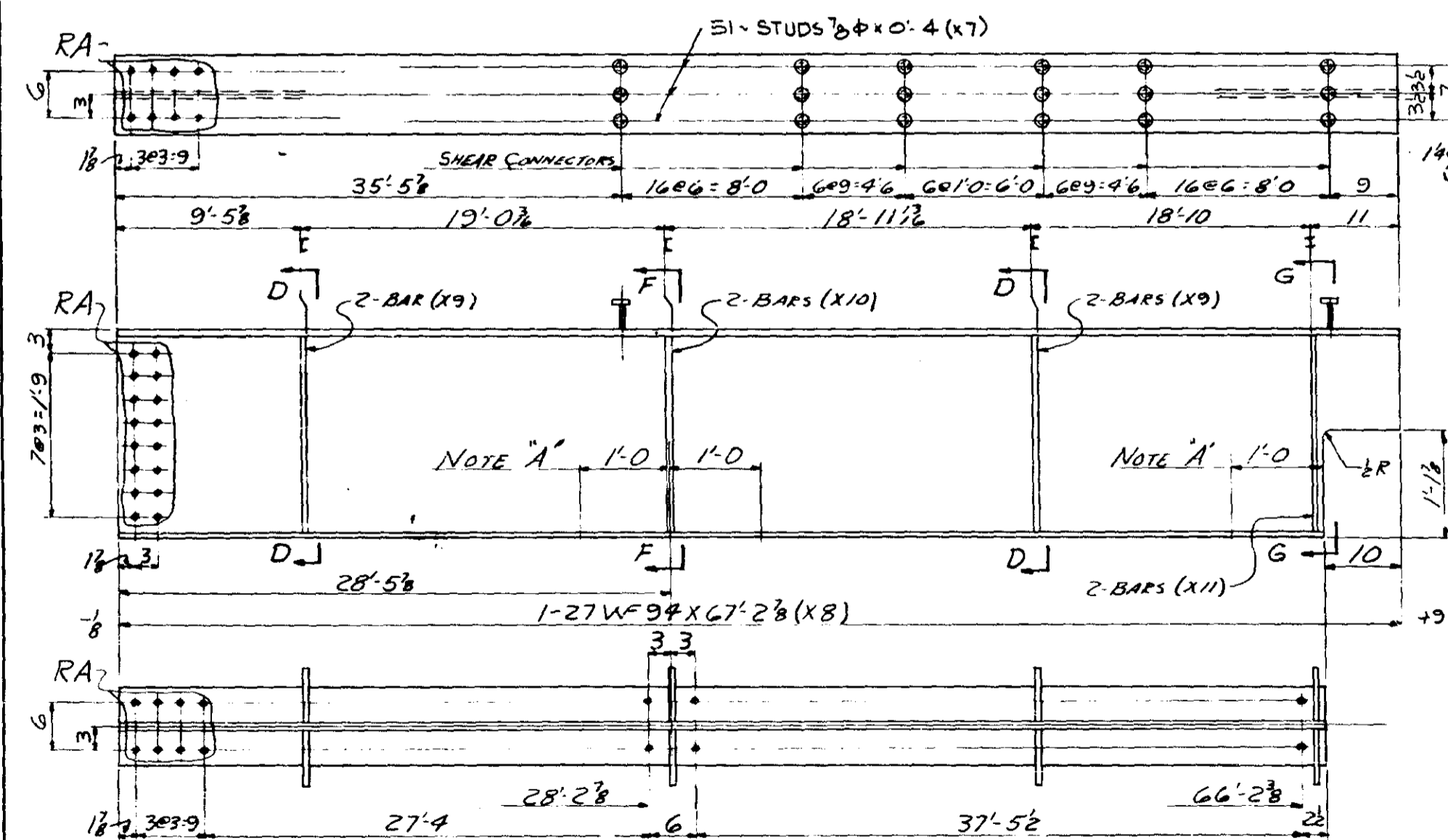
OPEN HOLES 1 1/2" RIVETS & BOLTS PAINT YES - SEE SHT. G-1

DRAWN BY D.J. DATE 3-16-66 CHECKED BY L.O. DATE 3-22-66

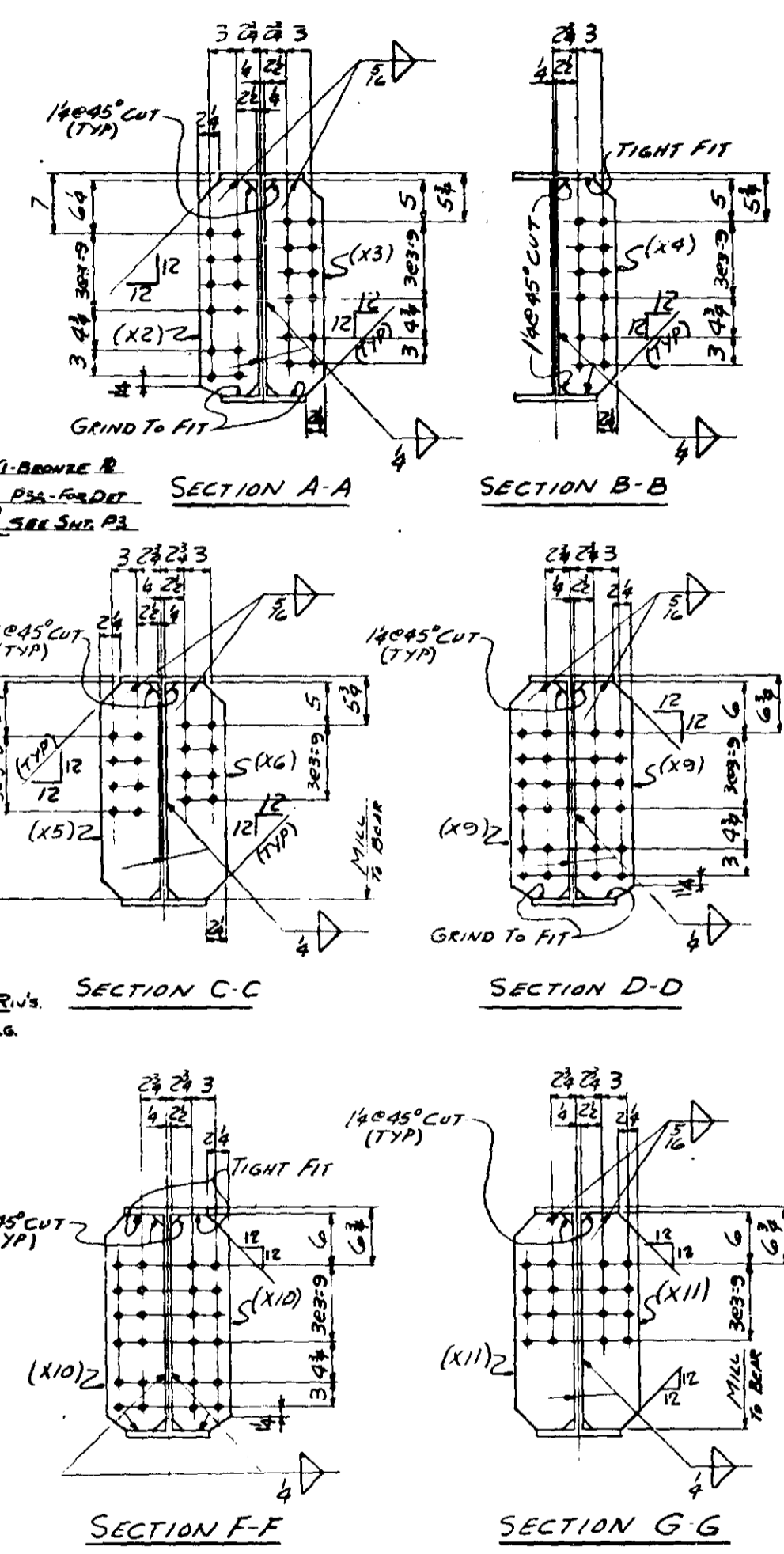
REF. DWG. EG	REVISIONS	△	△	△	△	CONTRACT 3142	FABCOD 279	SHEET 1910
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ONE - STRINGER - 1911A^R
ONE - STRINGER - 1911A^L



ONE - STRINGER - 1911B^R
ONE - STRINGER - 1911B^L



SHOP NOTE:
FOR GEN NOTES SEE
G.N.I.
FOR MATL SPECS.
SEE BILL OF MATL.

NOTE A'
BOTT. FLG TO BE 90° TO WEB
& SUPP FOR DISTANCE INDICATED

MINN. PROJ No I-1635W-3 (58) 112
STATE PROJ 2783-9340B (74) 35W-394

NO	QTY	SHAPE	LENGTH	PC NO.	REMARKS	ITEM NO.	TOTAL WEIGHT
1							
2							
3							
4							
5	1911A ^R ONE	STRINGER	(3) x 67' 3"				
6	1911A ^L ONE	DO	(3) x 67' 3"				
7	2	27 WF 94	67' 2 1/2" X1		595	59	12641
8	4	BAR 7 x 1/2	2 1/2" X2		596	59	75
9	4	BAR 7 x 1/2	2 1/2" X3		596	59	75
10	2	BAR 7 x 1/2	2 1/2" X4		596	59	38
11	2	BAR 7 x 1/2	2 1/2" X5		596	59	50
12	2	BAR 7 x 1/2	2 1/2" X6		MIE	59	50
13	306	STUDS 3/8"	0 4 X7		53F	59	156
14	2	BRONZE R	P3C				
15	2	WLD	27 4				NC
16	2	WLD	3 6				NC
17	12	RIV 3/8"					
18	2	BRONZE R	P3A		SEE SHIP P2		
19							
20							
21							
22							
23							
24							
25							
26	1911B ^R ONE	STRINGER	(3) x 67' 3"				
27	1911B ^L ONE	DO	(3) x 67' 3"				
28	2	27 WF 94	67' 2 1/2" X8		595	59	12641
29	306	STUDS 3/8"	0 4 X7		53F	59	156
30	8	BAR 7 x 1/2	2 1/2" X9		596	59	151
31	4	BAR 7 x 1/2	2 1/2" X10		596	59	75
32	4	BAR 7 x 1/2	2 1/2" X11		MIE	59	100
33	2	WLD	31 8				NC
34	2	WLD	3 6				NC
35							
36							
37							
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BID ITEM 59 - 26208

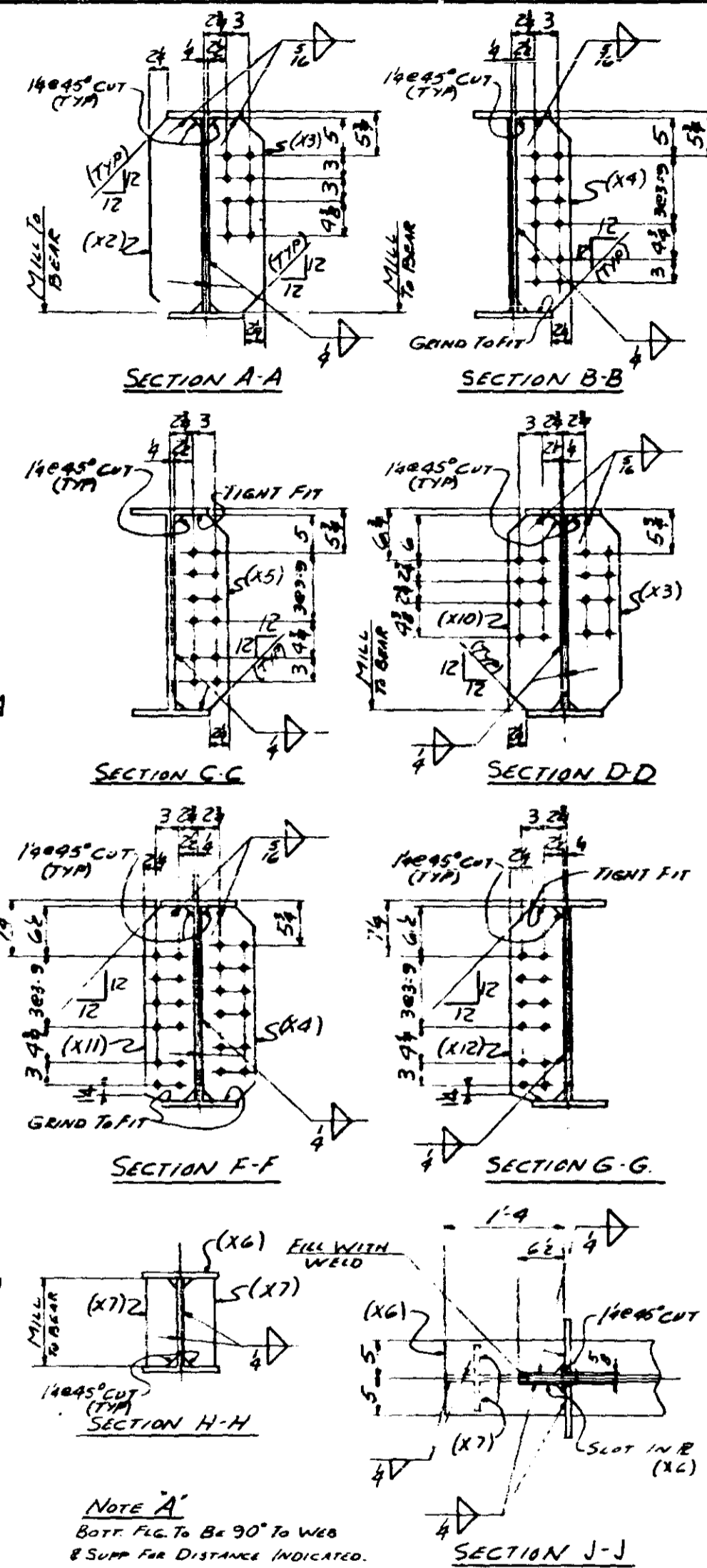
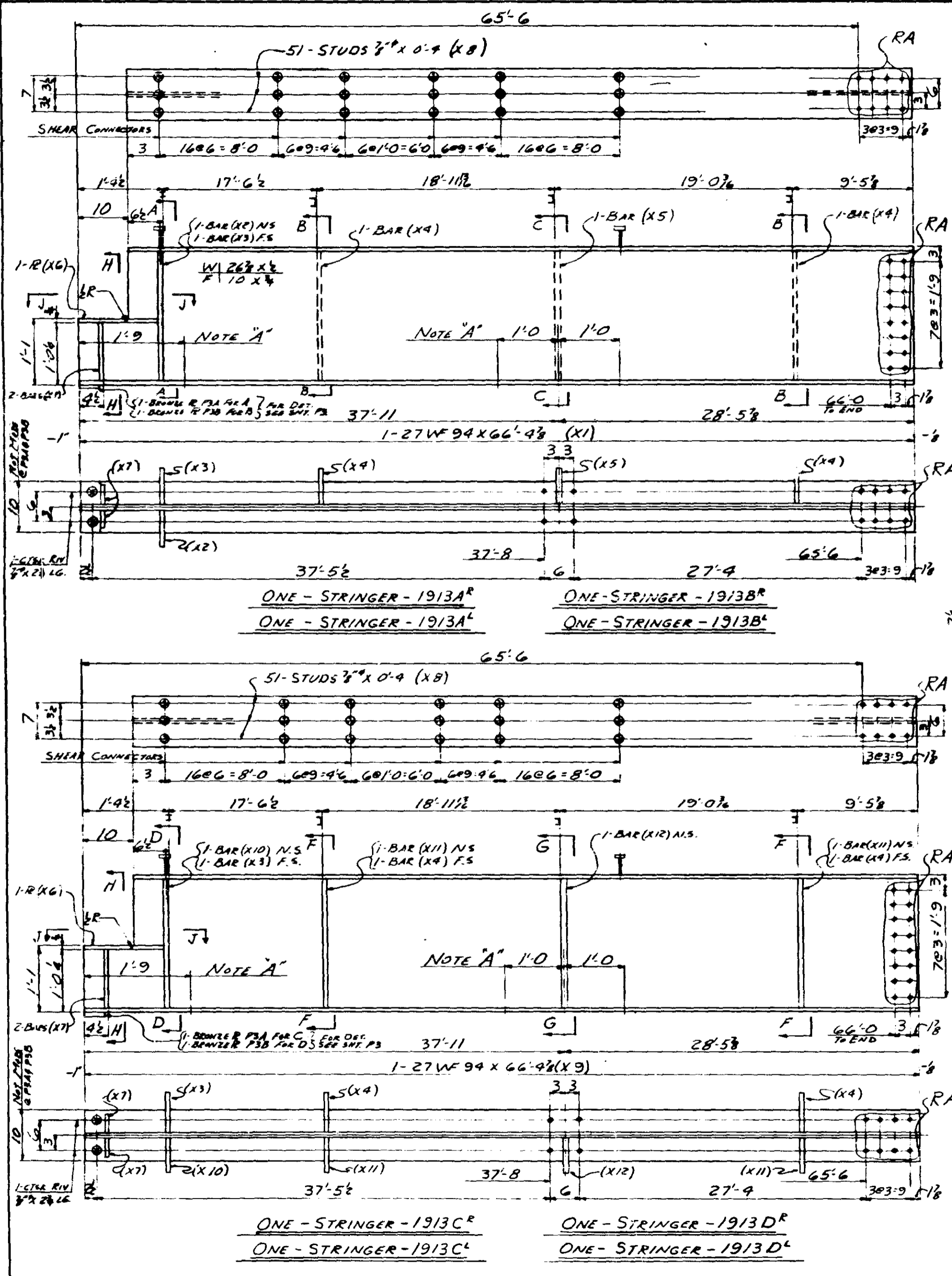
ALLIED ENGINEERS FABRICATORS ERECTORS
STRUCTURAL STEEL COMPANY
1222 12TH STREET HARBOR, MINN. 55402

DIVISION #19
HAMMOND FAB.
DETAILS OF
STRUCTURE STRINGERS - PP. U13-U14
BRIDGE NO. 9340
LOCATION MINNEAPOLIS, MINNESOTA
OWNER MINNESOTA STATE HWY. DEPT.
CUSTOMER MINNESOTA STATE HWY. DEPT.

OPEN HOLES 5" RIVETS 7/8" PAINT YES - SEE SHIP G.N.I.
DRAWN BY D.J. DATE 2-17-66 CHECKED BY L.O. DATE 2-23-66

REF DWG EG	REVISIONS	△	△	△	△
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CONTRACT 3142 FABCOD 274 SHEET 1911



NOTE A'
 BOT. FIG. TO BE 90° TO WEB
 & SUPP. FOR DISTANCE INDICATED.

SHOP NOTE:
 FOR GEN. NOTES SEE
 G.N.I.
 FOR MATL. SPECS SEE
 BILL OF MATL.

NO.	QTY	SHAPE	LENGTH	PC	REMARKS	ITEM NO.	TOTAL WEIGHT
1							
2							
3							
4							
5							
6							
7	1	STRINGER	(31) 66' 5"				
8	1	Do	(31) 66' 5"				
9	1	Do	(31) 66' 5"				
10	1	Do	(31) 66' 5"				
11	4	27 WF 94	66' 9 3/4" X1				
12	4	BARS 7/8"	2' 1 1/2" X2	M1E			
13	4	BARS 7/8"	2' 1 1/2" X3	M1E			
14	8	BARS 7/8"	2' 1 1/2" X4				
15	4	BARS 7/8"	2' 1 1/2" X5				
16	4	R 10 x 8	1' 9" X6				
17	8	BARS 7/8"	0' 11 1/2" X7	M1E			
18	4	WR STUDS 3/8"	0' 4" X8	TYPE 53F			
19	2	BRIDGE R		P3A FOR A			
20	2	BRIDGE R		P3B FOR B			
21	4	WLD	27' 6"				
22	4	WLD	2' 4"				
23	8	RIV 3/4"					
24							
25							
26							
27							
28							
29							
30							
31	1	STRINGER	(31) 66' 5"				
32	1	Do	(31) 66' 5"				
33	1	Do	(31) 66' 5"				
34	1	Do	(31) 66' 5"				
35	4	27 WF 94	66' 9 3/4" X1				
36	4	BARS	X3				
37	8	BARS	X4				
38	4	R	X6				
39	8	BARS	X7				
40	4	WR STUDS 3/8"	0' 4" X8	TYPE 53F			
41	4	BARS 7/8"	2' 1 1/2" X10	M1E			
42	8	BARS 7/8"	2' 1 1/2" X11				
43	4	BARS 7/8"	2' 1 1/2" X12				
44	2	BRIDGE R		P3A FOR C			
45	2	BRIDGE R		P3B FOR D			
46	4	WLD	35' 3"				
47	4	WLD	3' 6"				
48	8	RIV 3/4"					
49							
50							
51							
52							
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MINN PROJ. NO. I-IG35W-3 (58) 112
 STATE PROJ. 2783-9340B (TH 35W-394)

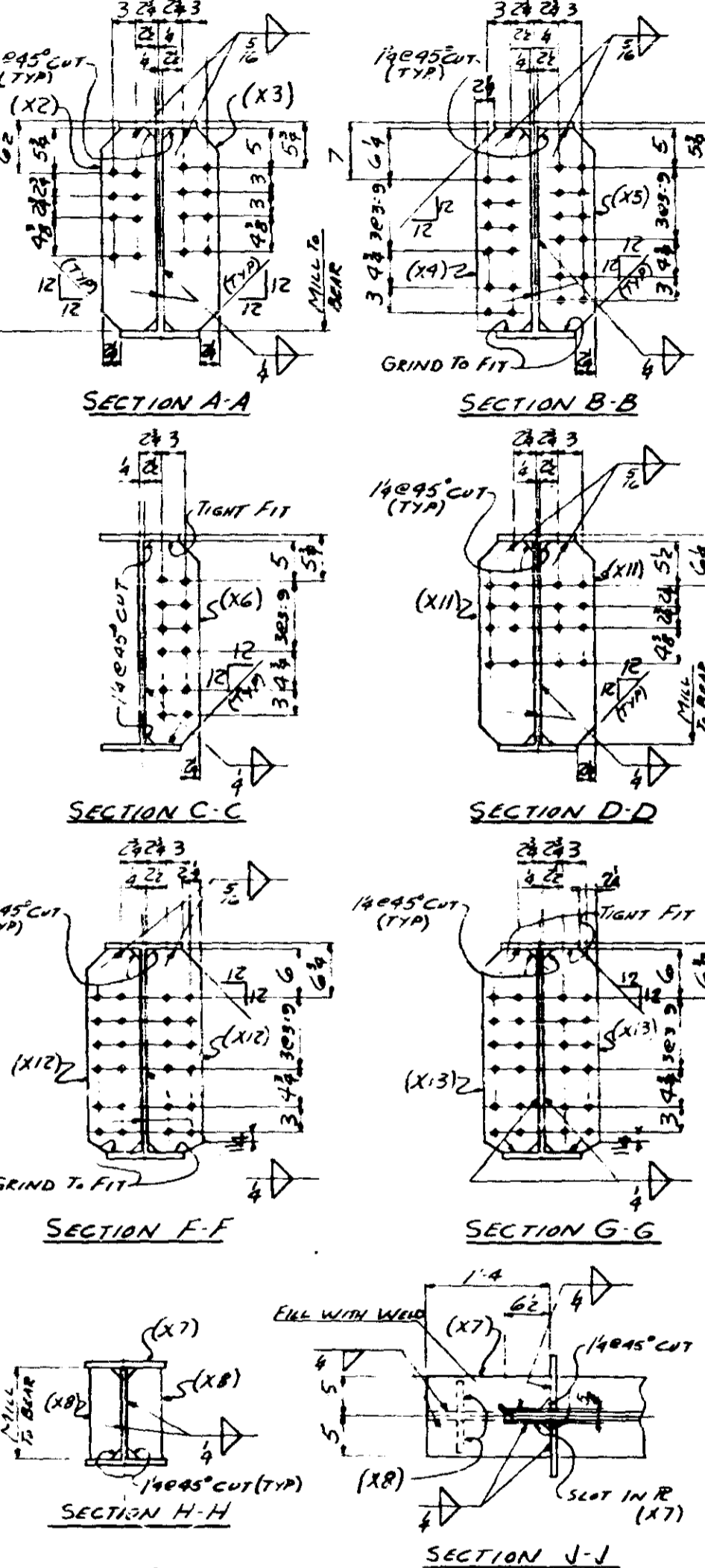
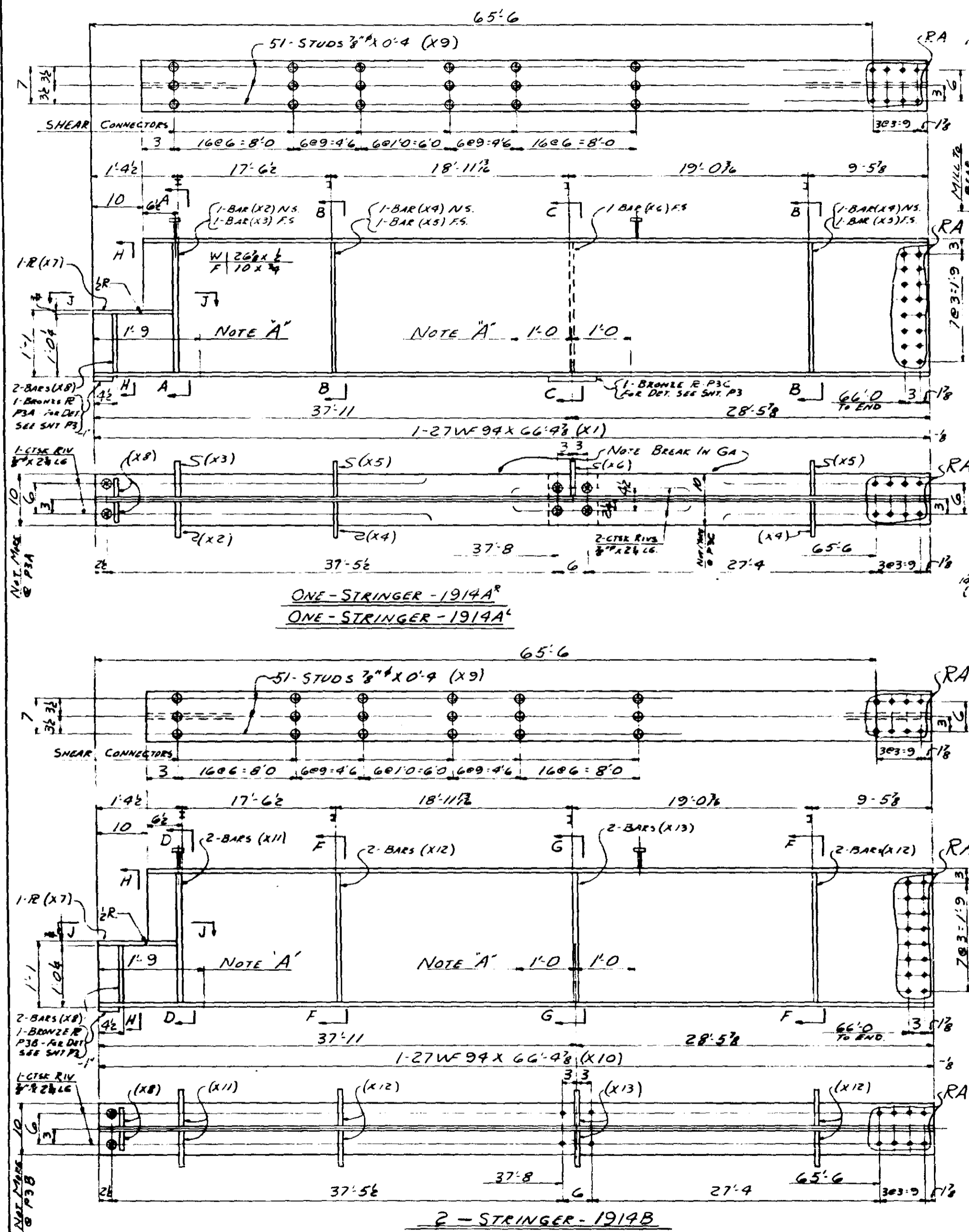
ALLIED
 FABRICATORS
 STRUCTURAL STEEL COMPANY

DIVISION # 19
 HAMMOND FAB

DETAILS OF STRINGERS - PP. U14-U15
 STRUCTURE: BRIDGE No. 9340
 LOCATION: MINNEAPOLIS, MINNESOTA
 OWNER: MINNESOTA STATE HWY. DEPT.
 CUSTOMER: MINNESOTA STATE HWY. DEPT.

DRAWN BY: D.J. DATE: 3/29/66 CHECKED BY: L.O. DATE: 3/23/66

CONTRACT 3142 FABCOD 274 SHEET 19/3



NOTE A'
 BOTH FLG TO BE 90° TO WEB
 & SUPP. FOR DISTANCE INDICATED

SHOP NOTES
 FOR GEN NOTES
 SEE G-1
 FOR MATL SPECS
 SEE BILL OF MATL

ITEM NO	QTY	DESCRIPTION	SHAPE	LENGTH	PC	REMARKS	ITEM NO	TOTAL WEIGHT	QTY
1									
2									
3									
4									
5									
6									
7									
8	2	STRINGER	31X66-5						
9	2	27 W 99	66'9" X 11					12484	3306
10	2	BARS 7x8	2 1/2 X 12			MIE		50	3306
11	2	BARS 7x8	2 1/2 X 13			MIE		50	3306
12	4	BARS 7x8	2 1/2 X 9					75	3306
13	4	BARS 7x8	2 1/2 X 5					75	3306
14	2	BARS 7x8	2 1/2 X 6					38	3306
15	2	BARS 10x4	1 9 X 7					68	3306
16	4	BARS 9x8	0 11 X 8			MIE		29	3306
17	306	STUDS 3/8"	0 4 X 9			TYPE 53F		156	
18	2	BRONZE R	P3A						
19	2	BRONZE R	P3C						
20	2	4 WLD	3 3						
21	2	1/2 WLD	3 6						
22	12	RIV 3/4"							
23									
24									
25									
26									
27									
28									
29									
30									
31									
32	2	STRINGER	31X66-5						
33									
34	2	27 W 99	66'9" X 10					12484	3306
35	2	R	X 7					18	3306
36	4	BARS	X 8					29	3306
37	306	STUDS 3/8"	0 4 X 9			TYPE 53F		156	
38	4	BARS 7x8	2 1/2 X 11			MIE		100	3306
39	8	BARS 7x8	2 1/2 X 12					51	3306
40	4	BARS 7x8	2 1/2 X 13					75	3306
41	2	BRONZE R	P3B						
42	2	4 WLD	3 6						
43	2	1/2 WLD	3 6						
44	4	RIV 3/4"							
45									
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ALLIED STRUCTURAL STEEL COMPANY
 1200 10TH STREET, HARMON, INDIANA 46130

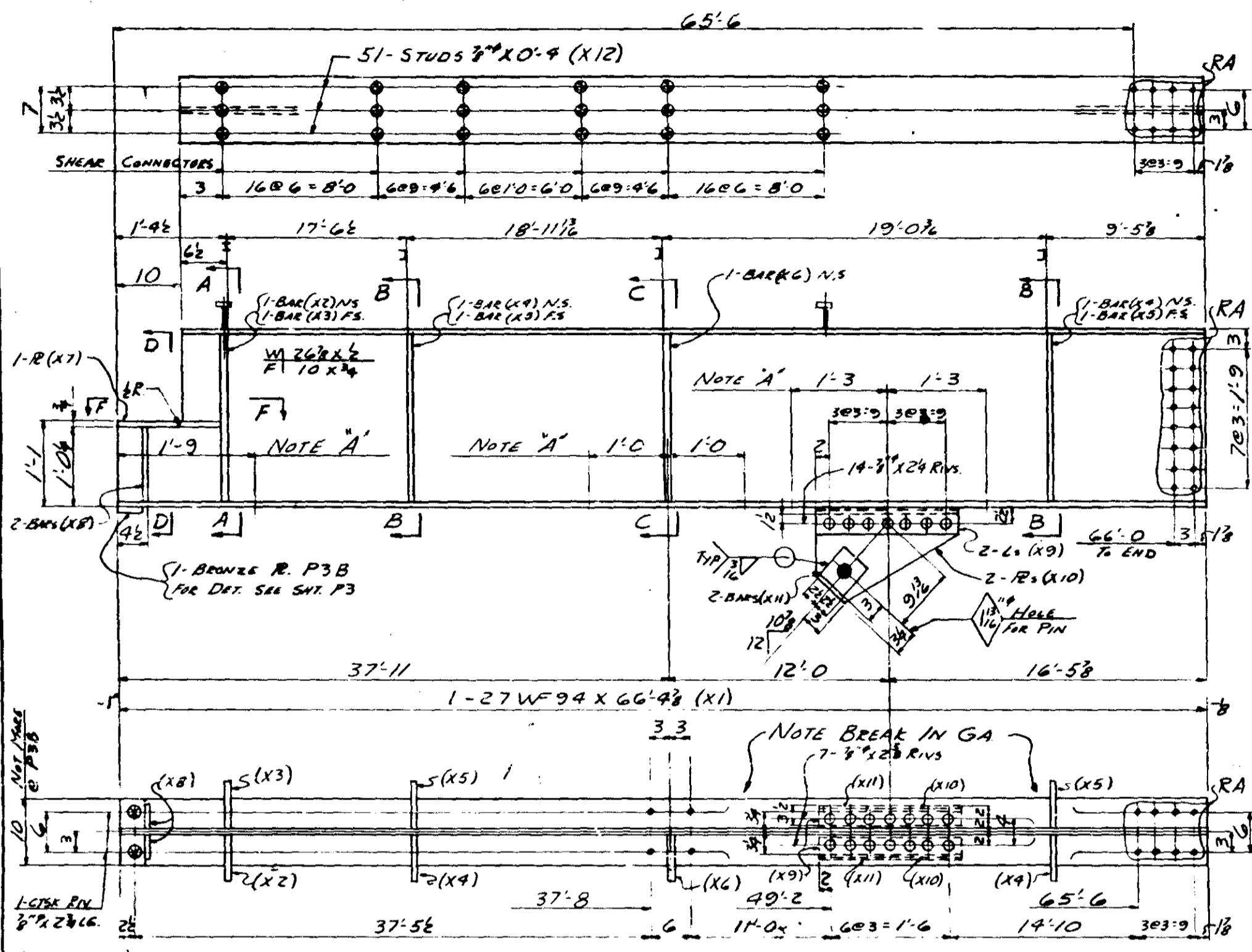
MINN PROJ. NO. I-IG 35W-3 (58) 112
 STATE PROJ. 2783-9340B (7435W-399)

DIVISION # 19
 HAMMOND FAB.

DETAILS OF STRINGERS - RR U19-U15
 STRUCTURE BRIDGE No. 9340
 LOCATION MINNEAPOLIS, MINNESOTA
 OWNER MINNESOTA STATE HWY. DEPT.
 CUSTOMER MINNESOTA STATE HWY. DEPT.

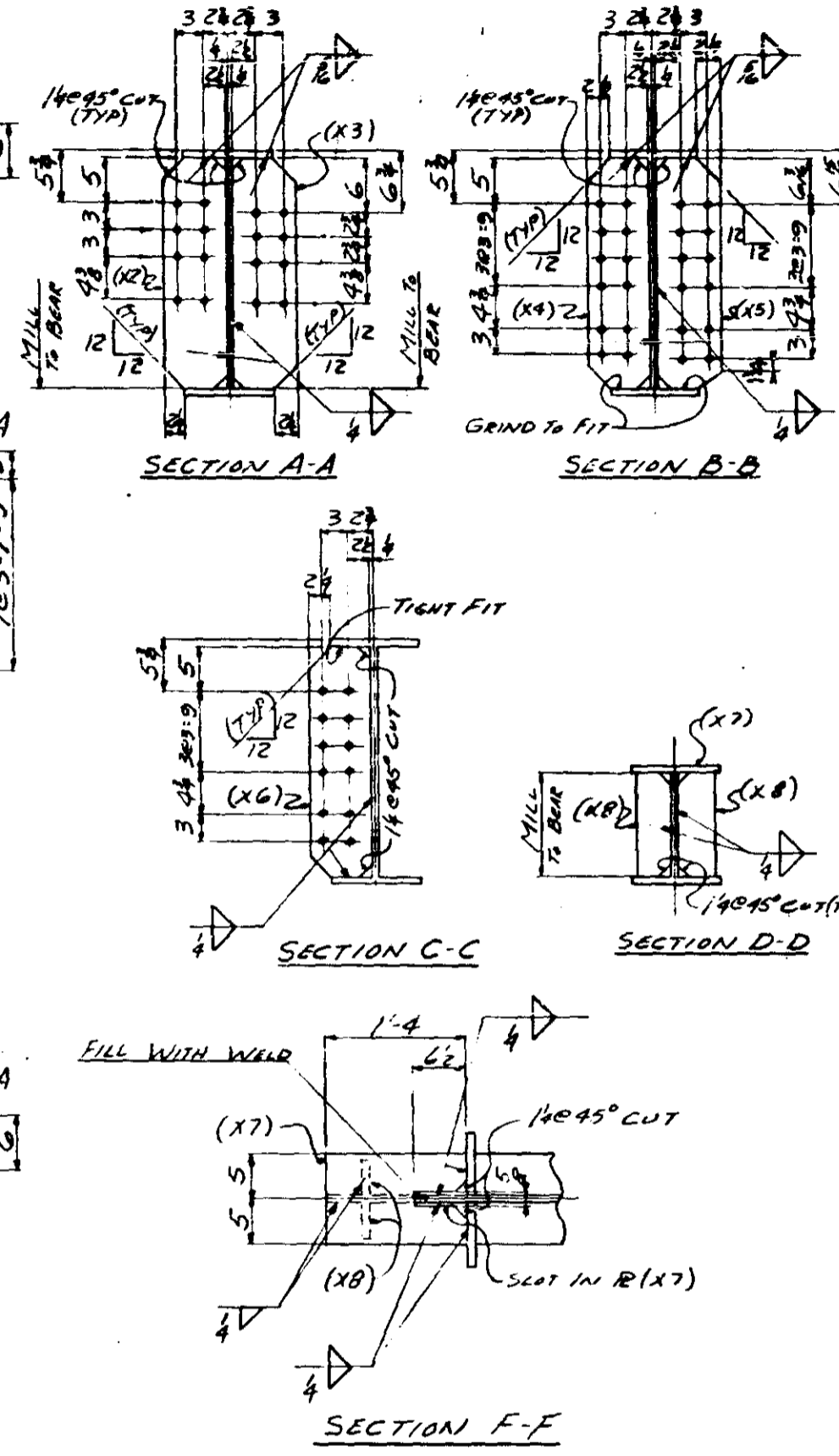
CONTRACT 3142 FABCOD 274 SHEET 191A

OPEN HOLES	15-A	RIVETS	3/4"	PAINT	YES - SEE SHI G-1
DRAWN BY	DJ	DATE	3-21-66	CHECKED BY	L.O.
DATE	3-28-66				
REVISIONS	△	△	△	△	



ONE - STRINGER - 1915A^R
 ONE - STRINGER - 1915A^L

NOTE A'
 BOTTM FLG TO BE 90° TO WEB
 * SUPR FOR DISTANCE INDICATED



SHOP NOTE
 FOR GEN NOTES SEE
 G.N.I.
 FOR MATL SPECS SEE
 BILL OF MATL.

MINN. PROJ. NO. I-16 35W-3 (58) 112
 STATE PROJ. 2783-9340 B (7435W-394)

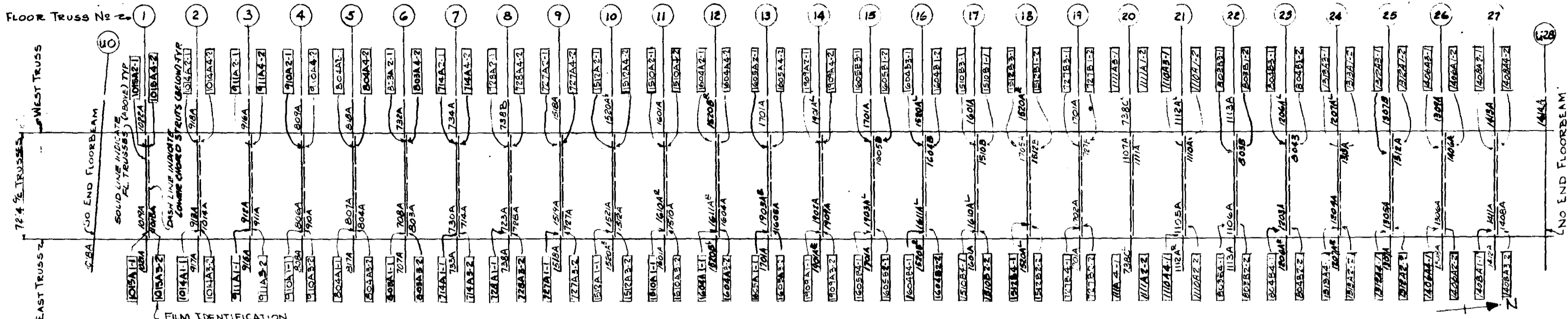
NO.	QTY	SHAPE	LENGTH	PC	REMARKS	ITEM NO.	TOTAL WEIGHT	UNIT WEIGHT
1								
2								
3								
4								
5								
6								
7								
8	1	STRINGER	(31'66"-5)					
9	1	Do	(31'66"-5)					
10	2	27 WF 99	66'9" X 1			59	2989	3306
11	2	BARS 7x1/2	2 1/2 X 2	M1E		59	50	3306
12	2	BARS 7x1/2	2 1/2 X 3	M1E		59	50	3306
13	2	BARS 7x1/2	2 1/2 X 4			59	75	3306
14	2	BARS 7x1/2	2 1/2 X 5			59	75	3306
15	2	BARS 7x1/2	2 1/2 X 6			59	38	3306
16	2	R _s 10x3/4	1 9 X 7			59	68	3306
17	4	BARS 4x1/2	0 11/2 X 8	M2E		59	29	3306
18	4	L _s 4x3 1/2 x 3/8	1 10 X 9			59	67	3306
19	4	R 13/8 x 3/8	1 10 X 10			59	124	3306
20	4	BARS 5x1/2	0 5/8 X 11			59	10	3306
21	306	STUDS 3/8"	0 9 X 12	TYPE 53F		59	156	
22	2	ANGLE R		P38				
23	2	1/2 WLD	3 7					
24	2	1/2 WLD	35 3					
25	2	1/2 WLD	3 6					
26	60	RIV. 3/8"						
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
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ALLIED STRUCTURAL STEEL COMPANY
 1222 15TH STREET, HAMMOND, INDIANA 46320

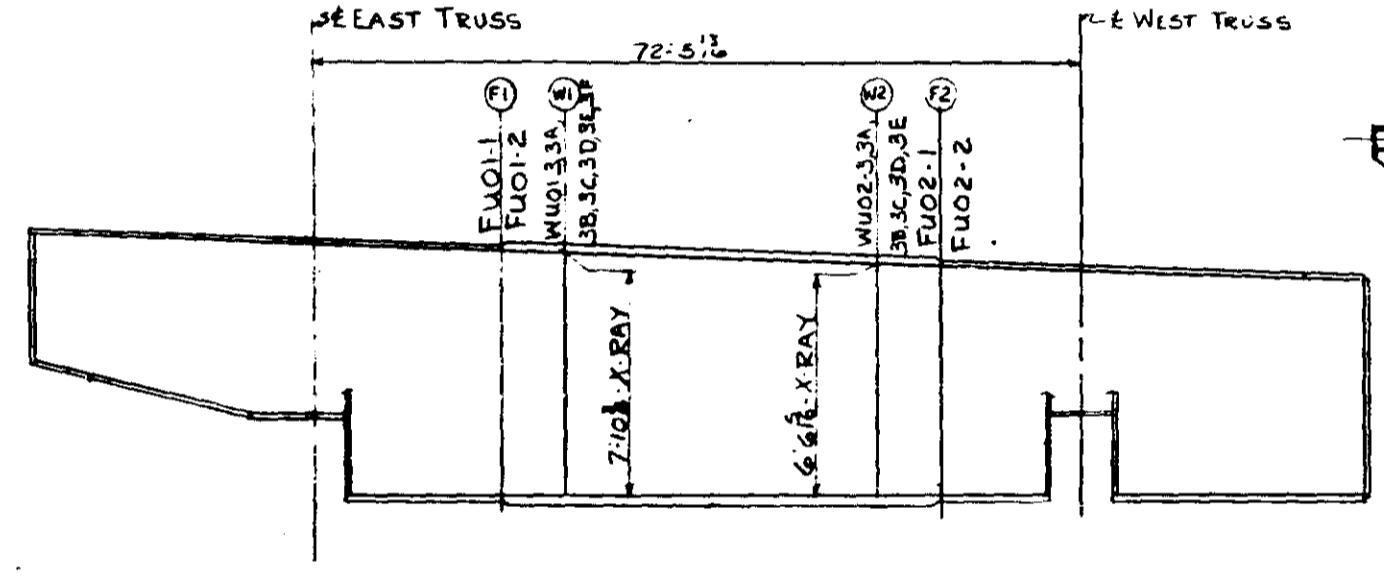
DIVISION #19
 HAMMOND FAB
 DETAILS OF
 STRUCTURE: STRINGERS - PR U19-U15
 BRIDGE No. 9340
 LOCATION: MINNEAPOLIS, MINNESOTA
 OWNER: MINNESOTA STATE HWY. DEPT.
 CUSTOMER: MINNESOTA STATE HWY. DEPT.

REF DWG E7
 REVISIONS
 CONTRACT 3142 FABCOD 274 SHEET 1915

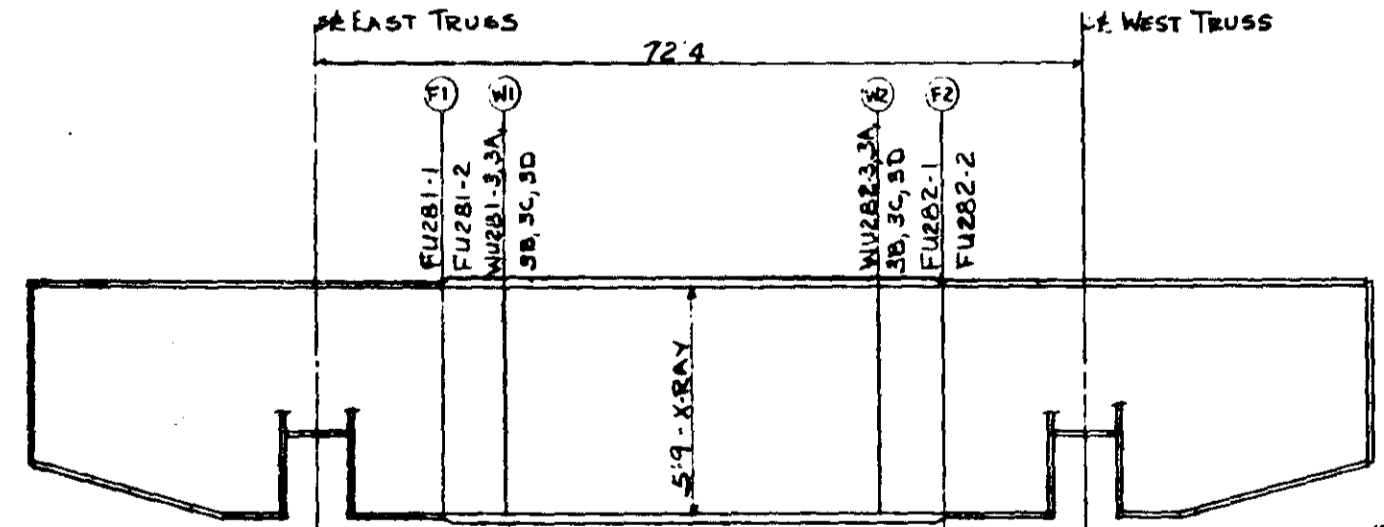
0	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19
20	21	22	23	24	25	26	27	28	29
30	31	32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47	48	49
50	51	52	53	54	55	56	57	58	59
60	61	62	63	64	65	66	67	68	69
70	71	72	73	74	75	76	77	78	79
80	81	82	83	84	85	86	87	88	89
90	91	92	93	94	95	96	97	98	99



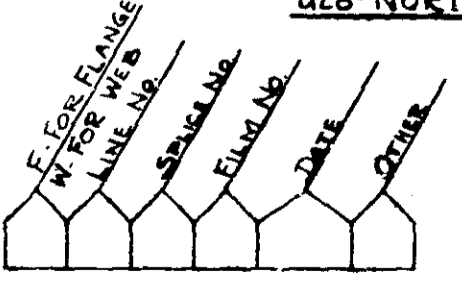
PLAN OF FLOORBEAMS AND FLOOR TRUSSES AND LOWER CHORD STRUTS



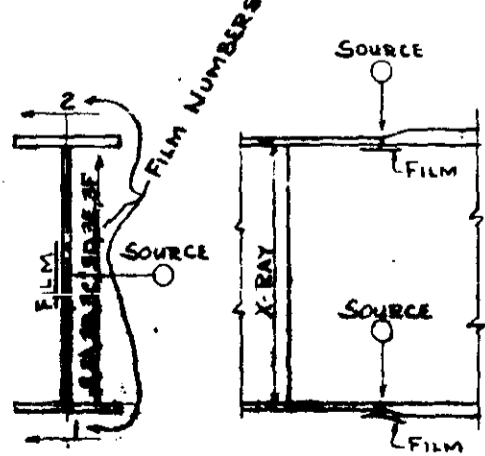
UO-SOUTH END FLOORBEAM



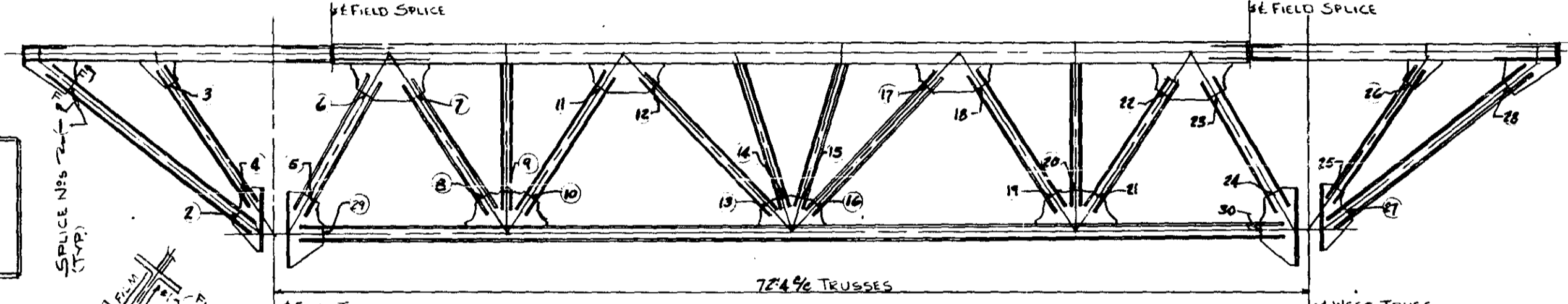
U28-NORTH END FLOORBEAM



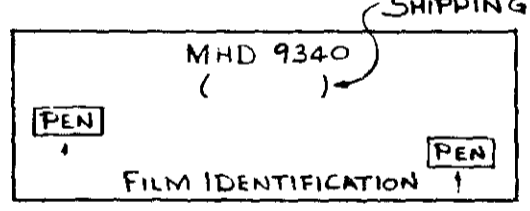
FILM IDENTIFICATION FOR FLOORBEAMS



TYPICAL SECTION (LOOKING EAST)

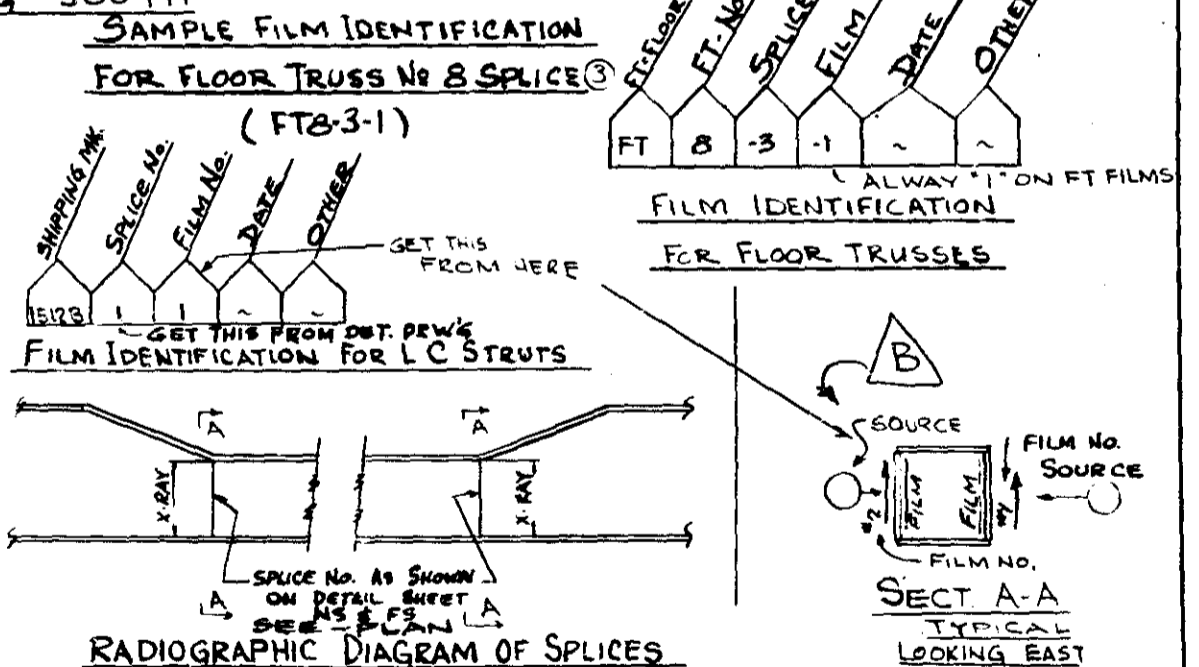


RADIOGRAPHIC DIAGRAM OF SPICES FOR FLOOR TRUSSES FT1 THRU FT27 LOOKING SOUTH



WHEN FILM IS LAPPED EACH INDIVIDUAL FILM SHALL BE IDENTIFIED AND LAID OUT AS ABOVE INCLUDING 2 PENETRATORS AND 2 ARROWS AS SHOWN.

GENERAL NOTES:
 ALL BUTT WELDS SHALL BE RADIOGRAPHICALLY INSPECTED IN ACCORDANCE WITH MHD SPECS 2471 3J44d.
 ALL BUTT WELDS TO BE RADIOGRAPHED FULL LENGTH AND AS INDICATED IN SKETCH TO THE LOWER LEFT.
 1 LAP TO BE USED BETWEEN TWO FILMS.
 ALL ARROWS ON RADIOGRAPHIC FILM SHALL POINT EAST FOR THE FL BEAMS, FL TRUSS LOWER CHORD AND LOWER CHORD STRUTS, AND IN A UPWARD DIRECTION FOR THE FL TRUSS VERTICALS AND DIAGONAL WEB MEMBERS.
 FILM NUMBERS AT EACH WELD MUST BEGIN BY USING THE NUMBER WITHOUT A SUFFIX (FOR EXAMPLE 3) AND WHERE MORE FILM ARE USED THE NUMBER SHALL BE SUFFIXED WITH A,B AND C IN ORDER.
 ALL SECTIONS TO BE IN POSITION RELATIVE TO FINAL ASSEMBLY WHEN RADIOGRAPHED
 APPROX. FILM LENGTH = 17"



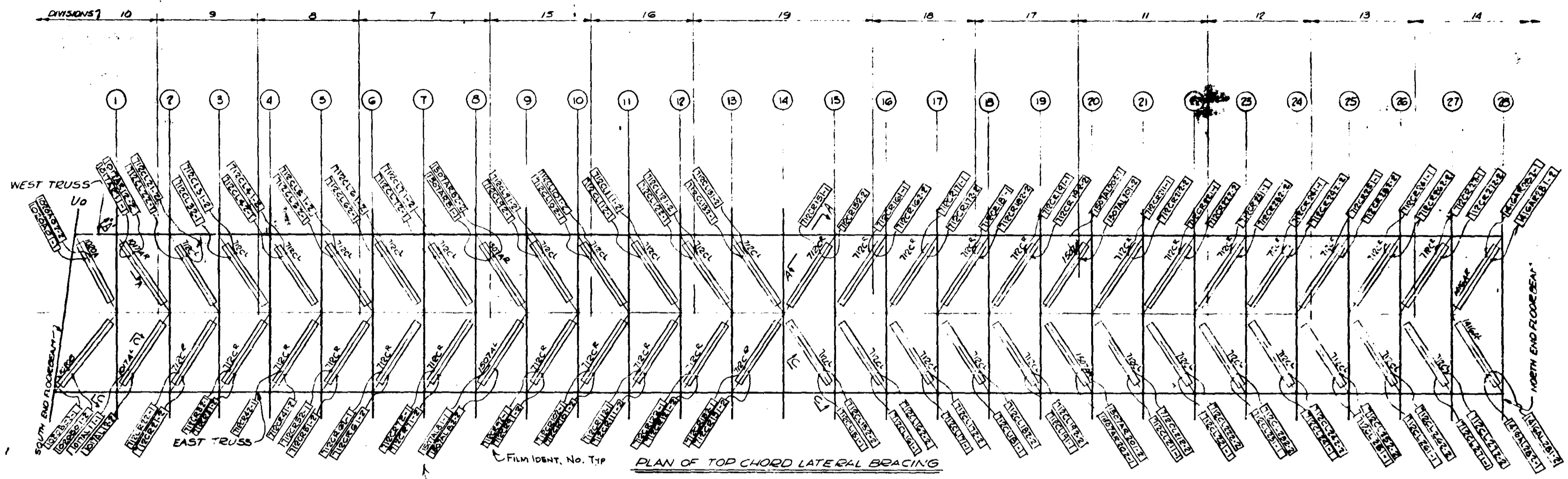
RADIOGRAPHIC DIAGRAM OF SPICES FOR LOWER CHORD STRUTS (PANEL POINTS 1 THRU 27) LOOKING NORTH

MINN PROJ No I1635W 3(58)112
 STATE PROJ No 27834340B(LH35W-394)

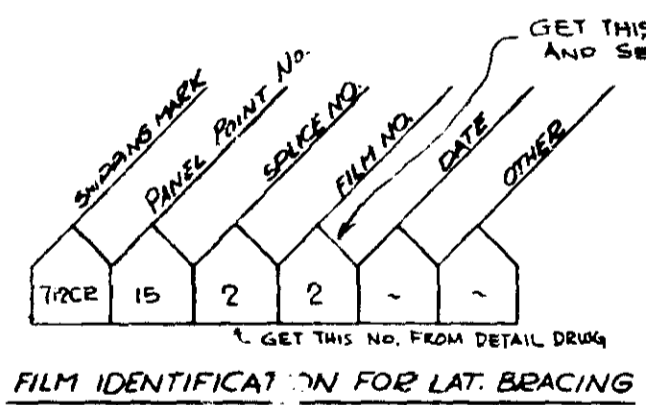
ALLIED STRUCTURAL STEEL COMPANY
 1125 12TH STREET MINNEAPOLIS, MINN 55404

DRAWN BY: JLN	DATE: 1-25-66	DETAILS OF X-RAY LOCATION DIAGRAM
CHECKED BY: GN	DATE: 9-15-66	STRUCTURE: BRIDGE No 9340
IN CHARGE OF: J. NEWELL		LOCATION: MINNEAPOLIS, MINNESOTA
FAB PLANT: HAMMOND		OWNER: MINNESOTA STATE HWY DEPT.
REFERENCE DWG:		
CONTRACT: 3142	DIV:	FABCOD
		SHEET: W1

X	0	1	2	3
0	X			
1				
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Film Ident. No. Tip
PLAN OF TOP CHORD LATERAL BRACING

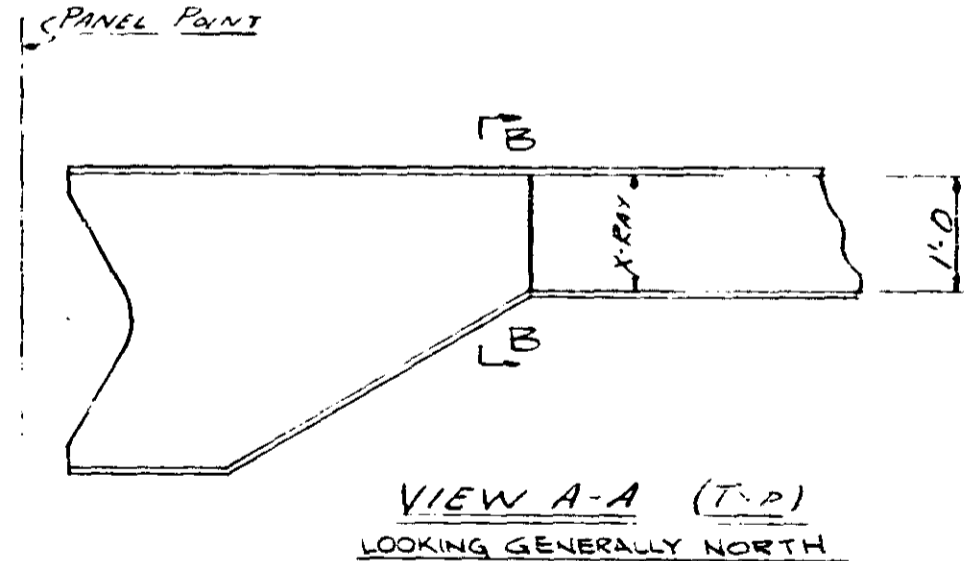


FILM IDENTIFICATION FOR LAT. BRACING

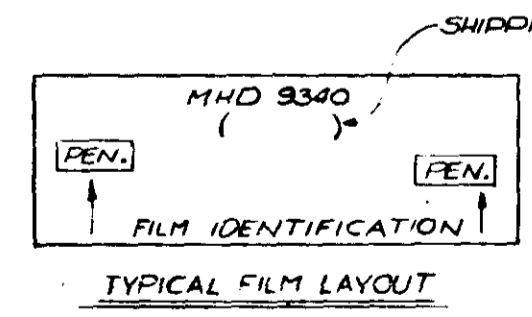
GENERAL NOTES:

ALL BUTT WELDS SHALL BE RADIOGRAPHICALLY INSPECTED IN ACCORDANCE WITH MHD SPECS 2471.3J434.
 ALL BUTT WELDS TO BE RADIOGRAPHED FULL LENGTH AND AS INDICATED IN SKETCH TO THE RIGHT.
 1" LAP TO BE USED BETWEEN TWO FILMS.
 ALL ARROWS ON RADIOGRAPHIC FILM SHALL POINT EAST AND IN AN UPWARD DIRECTION.
 APPROX. FILM LENGTH 47"
 FILM NUMBERS AT EACH WELD MUST BEGIN BY USING THE NUMBER WITHOUT A SUFFIX (FOR EXAMPLE - 1)

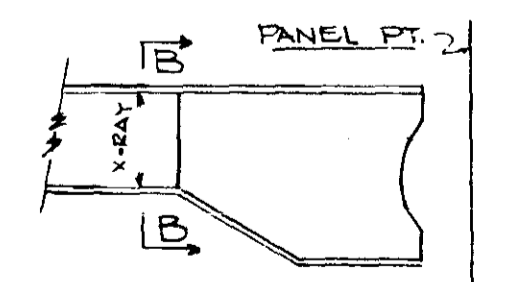
ALL SECTIONS TO BE IN POSITION RELATIVE TO FINAL ASSEMBLY WHEN RADIOGRAPHED.



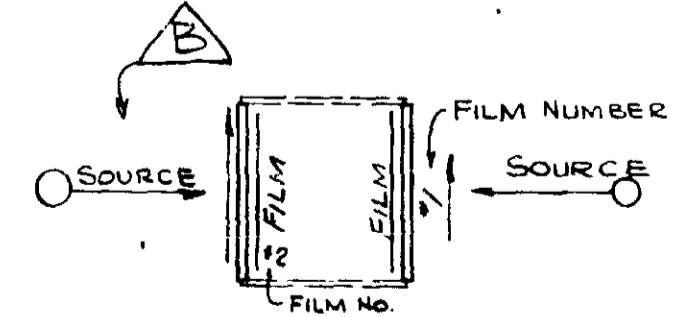
VIEW A-A (T.P.)
LOOKING GENERALLY NORTH



TYPICAL FILM LAYOUT



VIEW C-C (TYP.)
LOOKING GENERALLY NORTH

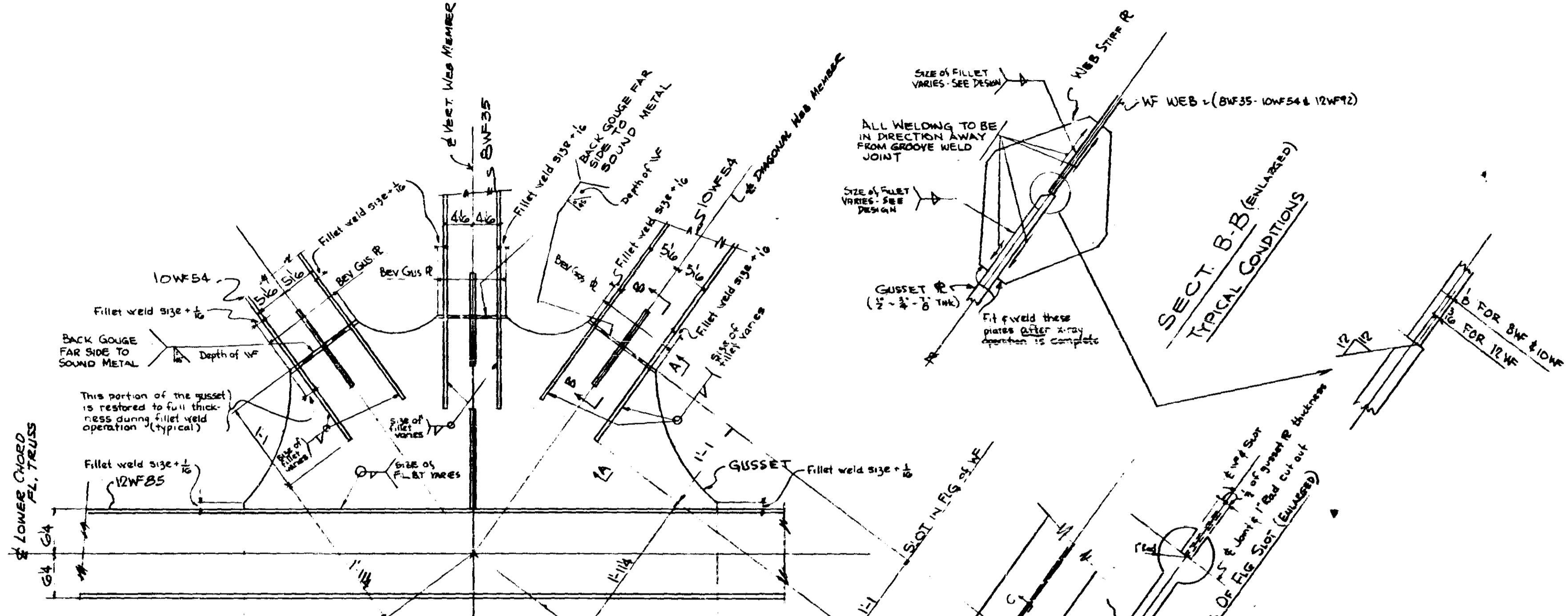


SECTION B-B (TYPICAL)
LOOKING GENERALLY EAST

MINN. REG. NO. I 26 35 W. 3 (58) 112
 STATE REG. NO. 2783-9340B (TH35W-39A)

ALLIED		STRUCTURAL STEEL COMPANY	
FABRICATORS		ERECTOR	
DRAWN BY: B		DATE: 1/1/66	
CHECKED BY: FZ		DATE: 7/3/66	
IN CHARGE OF: AMMOND		REFERENCE DWGS:	
DETAILS OF: X-RAY LOCATION DIAGRAM		STRUCTURE: BRIDGE 9340	
FAB PLANT: MINNEAPOLIS, MINNESOTA		LOCATION: MINNEAPOLIS, MINNESOTA	
OWNER: MINNESOTA STATE HWY DEPT.		CONTRACT: 3142	
DIV.:		FAB/CD	
SHEET: W2			

X	0	1	2	3
0	X			
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9				



GUSSET THK.	SLOT WIDTH
1/2"	1"
3/4"	1 1/2"
1"	2"
1 1/4"	2 1/2"
1 1/2"	3"

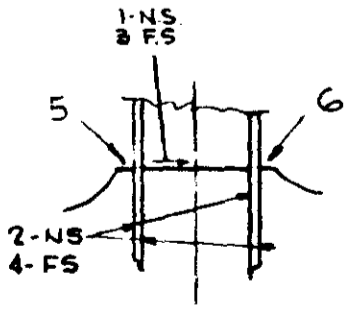
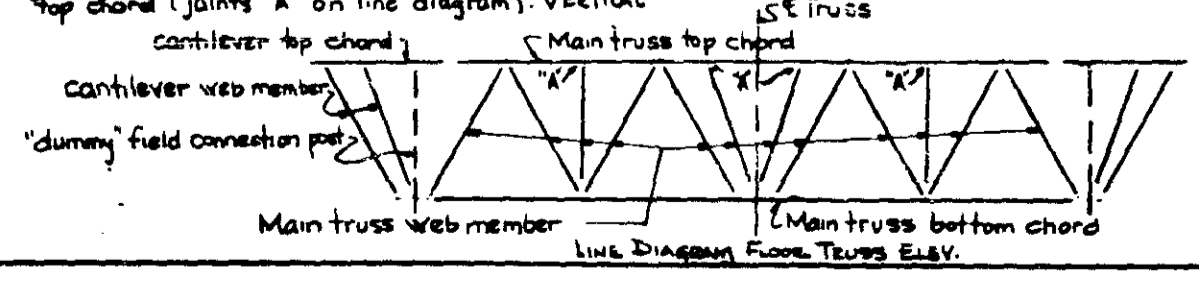
TYPICAL FLOOR TRUSS JOINT
SHOWING PROPOSED SHOP WELDING OF
FL. TRUSS WEB MEMBERS

FITTING & WELDING SEQUENCE - FLOOR TRUSSES

1. Bring chords to jig with gusset plates fully welded to chords.
2. Place main truss top chord in jig. Fit top chords of cantilever to top chord of main truss. Clamp the chords securely.
3. Place "dummy" field connection post in position.
4. Fit main truss connection brackets to bottom chord. Place bottom chord with brackets in jig & attach to posts. Clamp bottom chord securely to jig.
5. Attach cantilever field connection bracket to post.
6. Traced from center of main truss & fit web members in position. Upon completion of this step, fit cantilever web members in position.
7. After all members are securely tack welded in place, release the bottom chord clamps to allow free movement of bottom chord during welding.
8. Start @ center of truss. Working each way away from center, make butt welds (on near face) between web members & gusset plates.
9. Start @ center of truss. Working each way away from center, make all fillet welds on near face of truss (See Sect. A-A).
10. Remove complete truss assembly, including "dummy" field connection posts, from jig & turn assembly over on properly positioned slids.
11. Start @ center of truss. Working each way away from center, complete butt welds (See step 8).
12. Start @ center of truss. Working each way away from center, make all fillet welds (See step 9).
13. X-ray all butt welds (See radiographic drawing X1).
14. Upon completion of x-ray operation, fit all web stiffeners & weld in accordance with approved sequence (see Sect. B-B).

NOTE: Butt welds to be made in FLAT POSITION. Fillet welds to be made in HORIZONTAL POSITION except as follows:

- a. Fillet welds (web member to gusset) across the ends of the gusset: VERTICAL POSITION
- b. Fillet welds (web members to top chord) joining flgs. of web members to bottom flg. of top chord (joints "A" on line diagram): VERTICAL

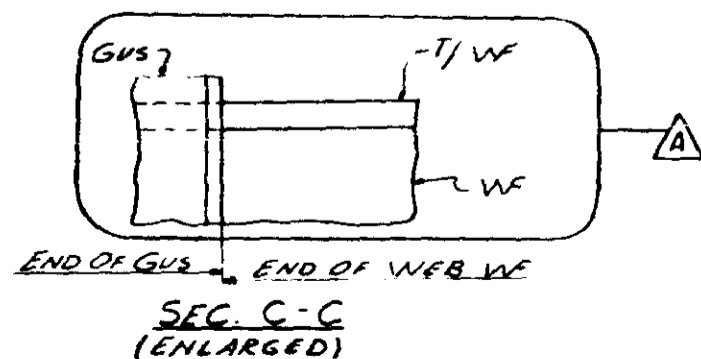
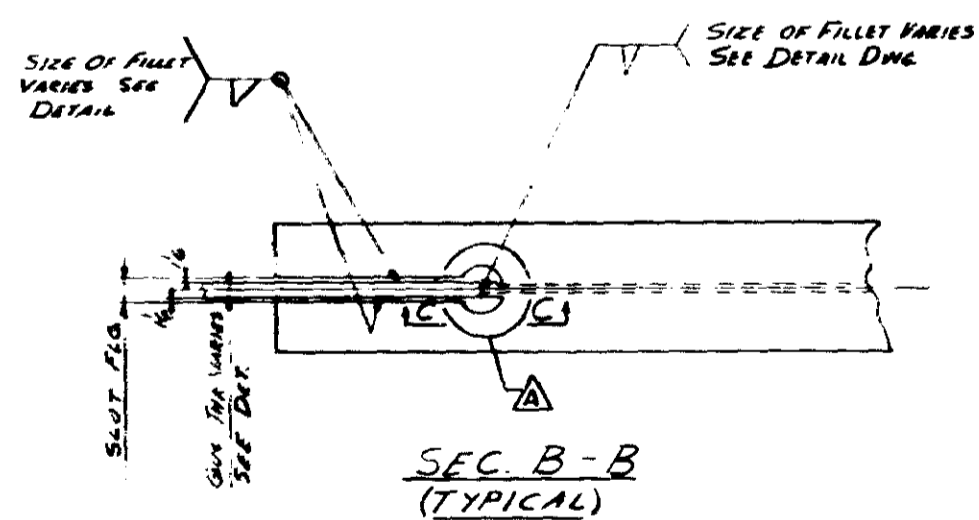
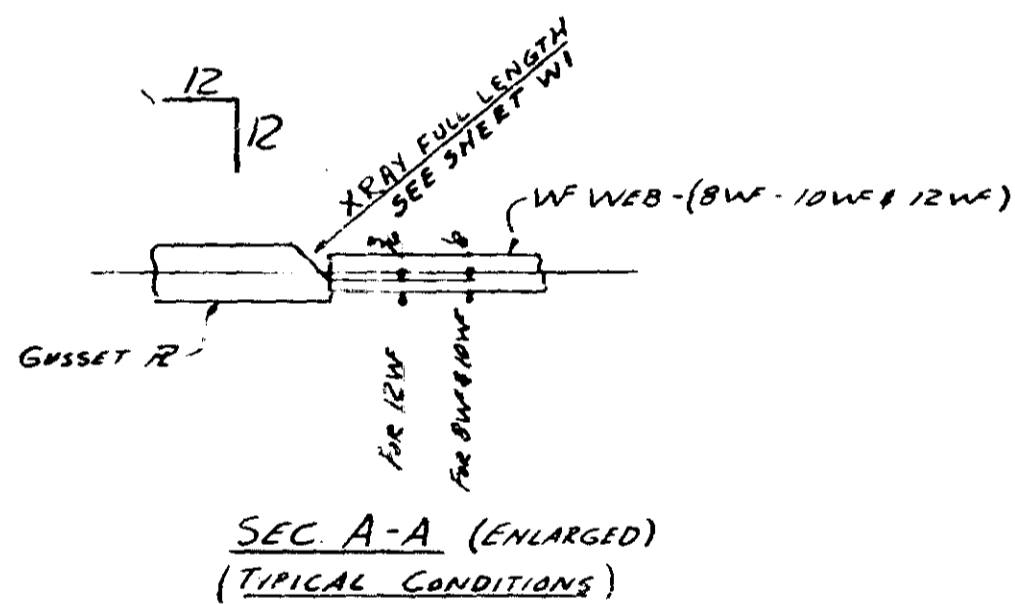
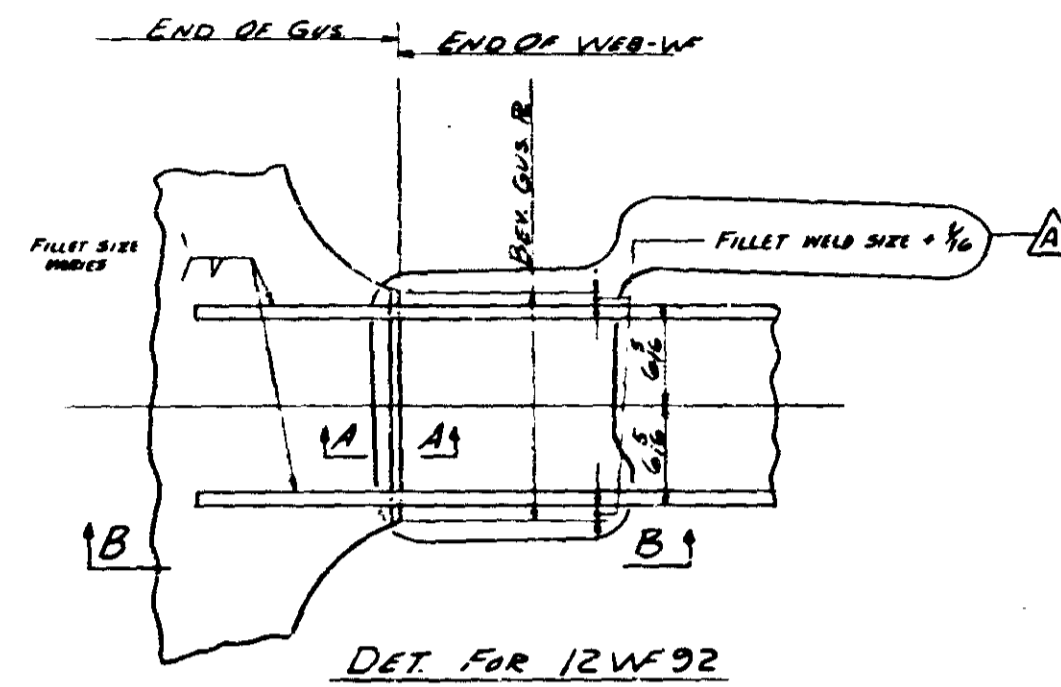
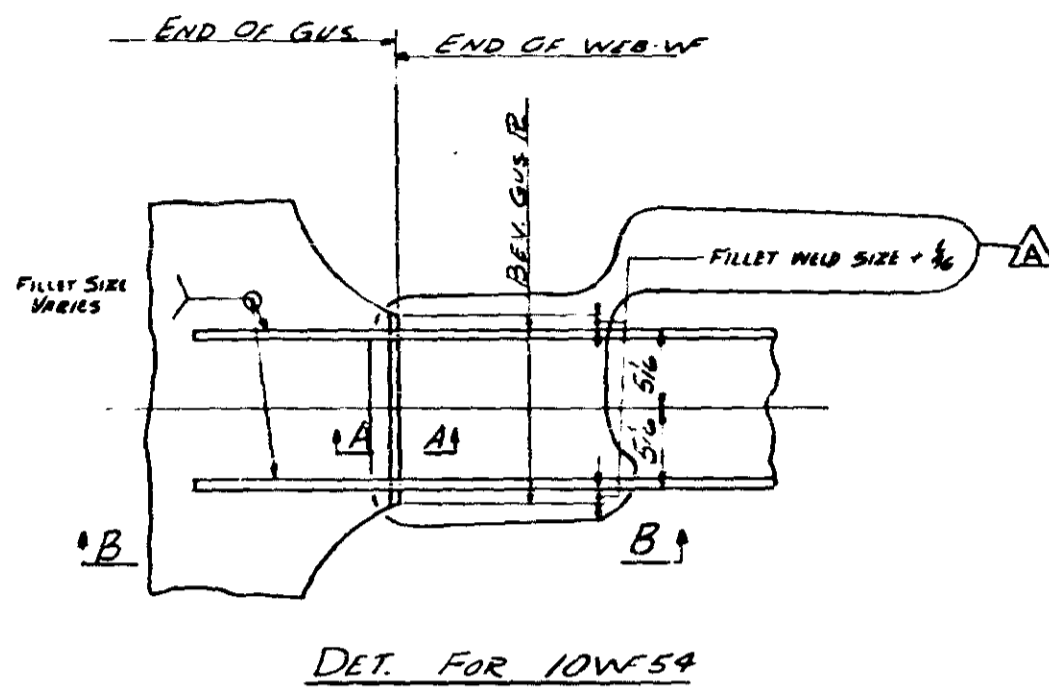
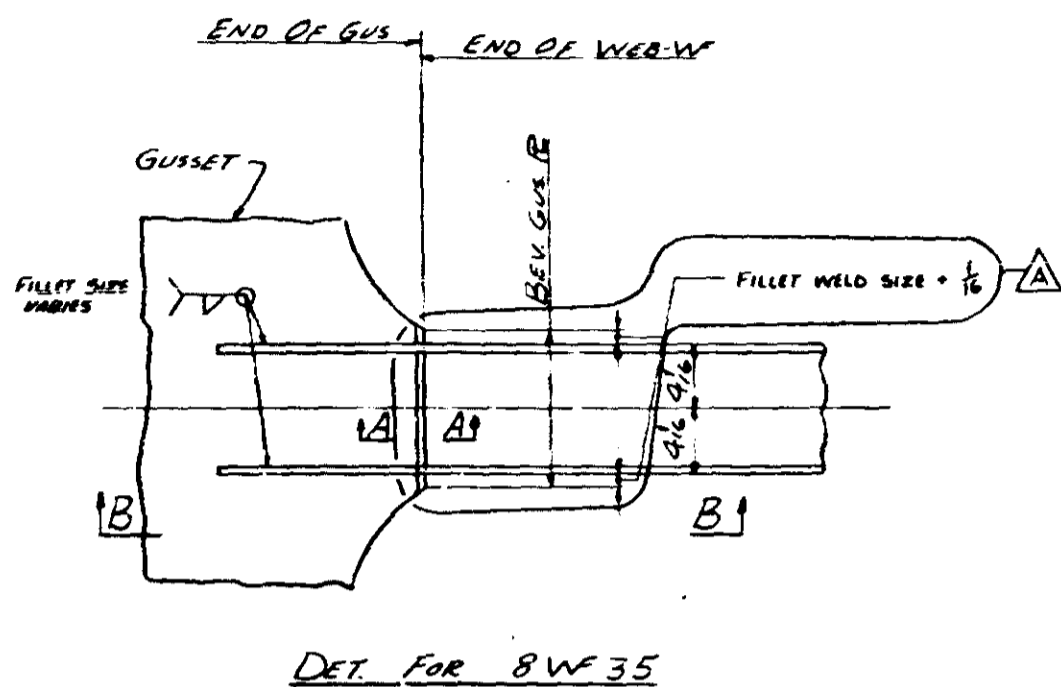


WELDING SEQUENCE @ JOINT

MINN. PROJ. I-IG 35W-3 (58) 112
STATE PROJ. 2783-93403 (35W) 314

ALLIED STRUCTURAL STEEL COMPANY	
DETAILS OF WELDING SEQUENCE FOR FL. TR. WEB MEMBER	
STRUCTURE BRIDGE No. 9340	
LOCATION MINNEAPOLIS MINNESOTA	
OWNER MINNESOTA STATE HIGHWAY DEPT	
CONTRACT 3142	DIV. FABCO
SHEET X1	

X	0	1	2	3
0	X			
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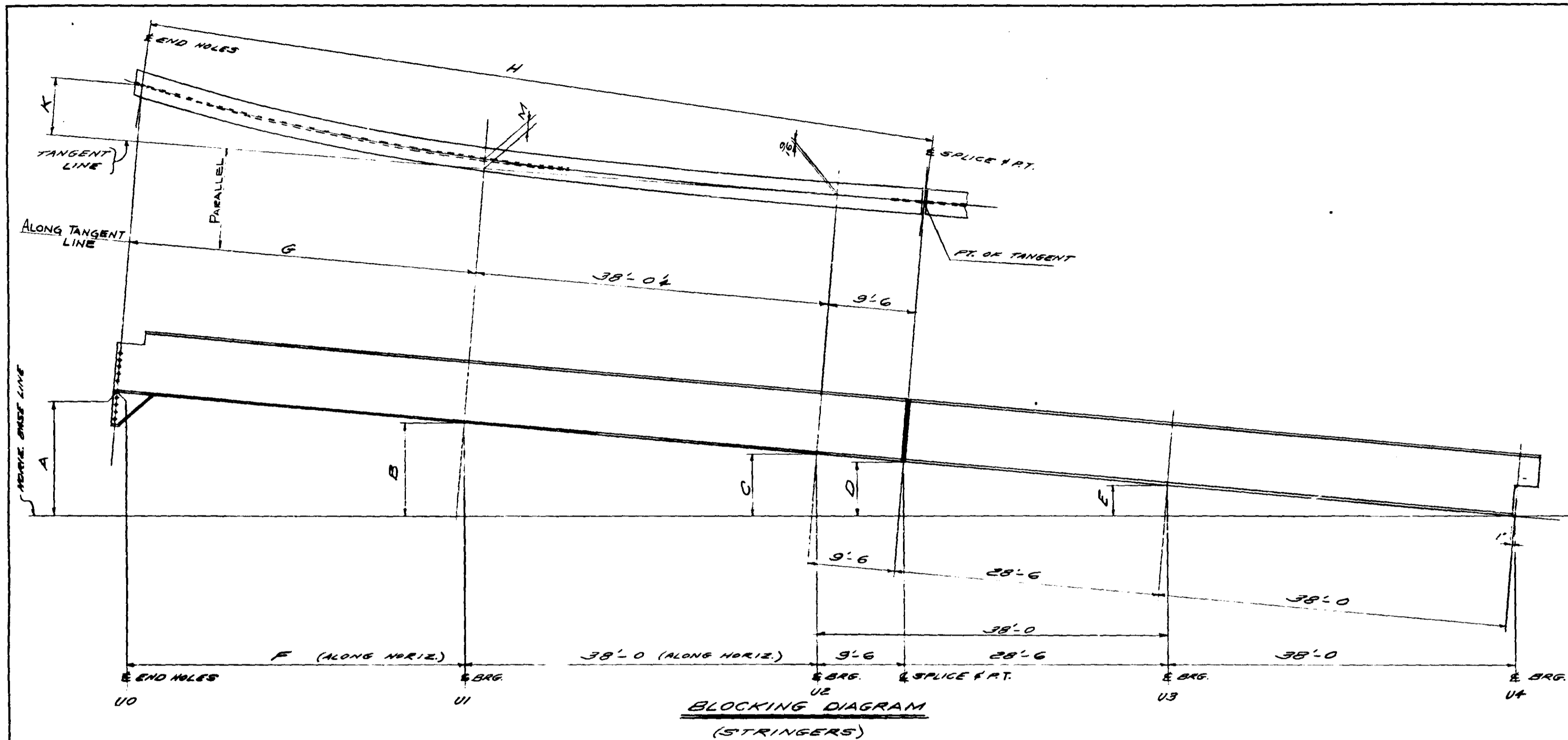


NOTE:
SEE SHT. XI FOR WELD SEQUENCE & WELD SYMBOLS

MINN. Proj. I-IG 35W-3 (58) 112
STATE Proj. 2783-9390 B (7-35.1.3.12)

ALLIED STRUCTURAL STEEL COMPANY
ENGINEERS, FABRICATORS & ERECTORS
1425 10TH STREET, HARBOR, MINN. 55428

DUK	REVISIONS	DATE	BY	DETAILS OF
				WELDING DETAILS FOR FLOOR TRUSSES
				STRUCTURE BRIDGE NO. 9390
				LOCATION MINNEAPOLIS, MINNESOTA
				OWNER MINNESOTA STATE HWY. DEPT.
				CONTRACT 3142
				DIV.
				FABCOD 244
				SHEET X2



BLOCKING DIAGRAM
(STRINGERS)

LINE	A	B	C	D	E	F	G	H	K	M
1	1'-11 1/2"	1'-5 1/2"	11 3/8"	10 3/8"	6"	38'-0 1/2"	38'-0 1/2"	88'-7"	3'-7 1/2"	1'-1 1/2"
2	1'-9 3/4"	1'-4 3/4"	10 1/2"	9 1/2"	5 1/2"	37'-5 1/2"	37'-6 1/2"	85'-0 1/2"	3'-6 1/2"	1'-1 1/2"
3	1'-7 1/2"	1'-2 1/2"	9 1/2"	8 1/2"	5"	36'-11 1/2"	37'-0 1/2"	84'-6 1/2"	3'-6 1/2"	1'-1 1/2"
4	1'-6"	1'-1 1/2"	9 1/2"	7 1/2"	4 1/2"	36'-5 1/2"	36'-5 1/2"	84'-0 1/2"	3'-6 1/2"	1'-1 1/2"
5	1'-4"	1'-0 1/2"	8 1/2"	7 1/2"	4 1/2"	35'-10 1/2"	35'-11 1/2"	83'-5 1/2"	3'-6 1/2"	1'-1 1/2"
6	1'-1 1/2"	10 1/2"	6 1/2"	6 1/2"	3 1/2"	35'-4 1/2"	35'-5 1/2"	82'-11 1/2"	3'-6 1/2"	1'-1 1/2"
7	11 1/2"	9"	6"	5 1/2"	3"	34'-10 1/2"	34'-10 1/2"	82'-5 1/2"	3'-5 1/2"	1'-1 1/2"
8	1'-0 1/2"	9 1/2"	6 1/2"	5 1/2"	3 1/2"	34'-4 1/2"	34'-3 1/2"	81'-11 1/2"	3'-5 1/2"	1'-1 1/2"
9	10 1/2"	7 1/2"	5 1/2"	4 1/2"	2 1/2"	33'-4 1/2"	33'-11 1/2"	81'-5 1/2"	3'-5 1/2"	1'-2"
10	8 1/2"	6 1/2"	4 1/2"	3 1/2"	2 1/2"	33'-4 1/2"	33'-4 1/2"	80'-11"	3'-5 1/2"	1'-2 1/2"
11	6 1/2"	4 1/2"	3 1/2"	2 1/2"	1 1/2"	32'-9 1/2"	32'-0 1/2"	80'-5 1/2"	3'-5 1/2"	1'-2 1/2"
12	4 1/2"	3 1/2"	2 1/2"	1 1/2"	1 1/2"	32'-9 1/2"	32'-9 1/2"	79'-10 1/2"	3'-5 1/2"	1'-2 1/2"
13	4 1/2"	3 1/2"	2 1/2"	1 1/2"	1 1/2"	31'-9 1/2"	31'-9 1/2"	79'-4 1/2"	3'-4 1/2"	1'-2 1/2"
14	0"	0"	0"	0"	0"	31'-2 1/2"	31'-3 1/2"	78'-9 1/2"	3'-4 1/2"	1'-2 1/2"

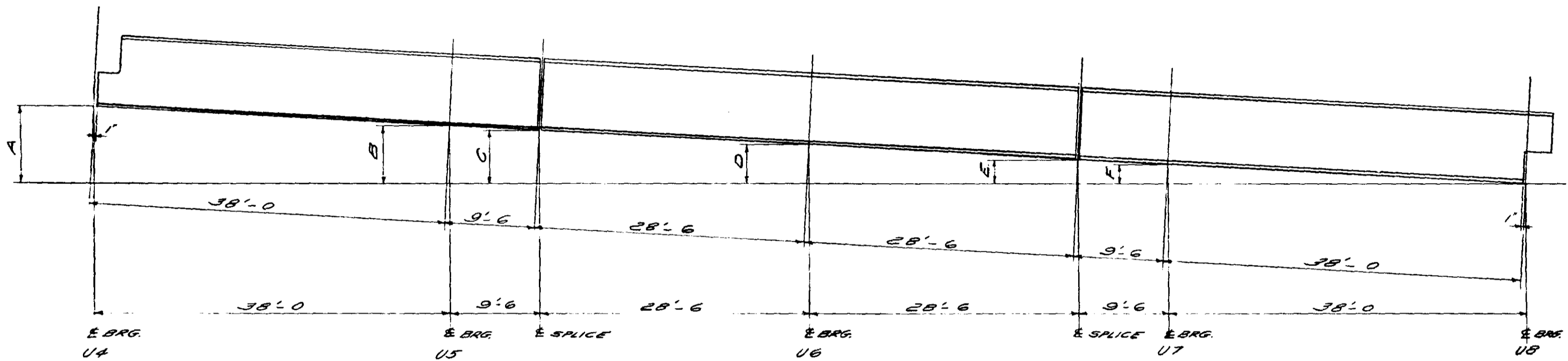
SHOP NOTE:

SEE DWG. E4 FOR SHIPPING MARKS
& FIELD SPLICE MATCH MARKS.

MINN. PROJ I-14 25W-3(SB) 112
STATE PROJ 2785-9340B (25W-594)

ALLIED ENGINEERS, FABRICATORS, ERECTORS
STRUCTURAL STEEL COMPANY
1425 15TH STREET, MINNEAPOLIS, MINN.

REVISIONS	DRAWN BY: <u>TL</u> DATE: <u>3-25-66</u>	DETAILS OF: <u>BLOCKING DIAGRAM - RP U0 TO U4</u>
	CHECKED BY: <u>GN</u> DATE: <u>7-14-66</u>	STRUCTURE: <u>BRIDGE NO. 2340</u>
	FAB. PLANT: <u>MINNAPOND</u>	LOCATION: <u>MINNEAPOLIS, MINNESOTA</u>
	REFERENCE DWGS: <u>E4</u>	OWNER: <u>MINNESOTA STATE HWY DEPT.</u>
CONTRACT: <u>5142</u>		DIV: <u>916</u>
FABCOD:		SHEET: <u>57</u>



BLOCKING DIAGRAM
(STRINGERS)

STR. DIM LINE	A	B	C	D	E	F
1	1-8 ⁷ / ₁₆	1-3 ⁵ / ₁₆	1-2	10 ⁸ / ₈	6 ² / ₂	5 ³ / ₁₆
2	1-6 ³ / ₈	1-1 ³ / ₂	1-0 ³ / ₁₆	9 ⁸ / ₈	5 ¹² / ₁₆	4 ⁸ / ₈
3	1-4 ⁵ / ₁₆	1-0 ³ / ₁₆	11 ⁸ / ₈	8 ¹ / ₁₆	5 ⁸ / ₈	4 ⁸ / ₈
4	1-2 ¹ / ₁₆	10 ¹ / ₁₆	9 ¹² / ₁₆	7 ¹ / ₁₆	4 ² / ₁₆	3 ⁸ / ₈
5	1-1 ⁷ / ₁₆	10 ⁸ / ₈	9 ⁵ / ₁₆	6 ¹¹ / ₁₆	4 ⁴ / ₄	3 ⁷ / ₁₆
6	1-1	9 ¹ / ₁₆	8 ³ / ₈	6 ¹ / ₁₆	4 ¹ / ₁₆	3 ⁴ / ₄
7	1-0 ³ / ₁₆	9 ⁹ / ₁₆	8 ³ / ₂	6 ⁵ / ₁₆	3 ³ / ₈	3 ³ / ₁₆
8	1-1	9 ¹ / ₁₆	8 ⁷ / ₈	6 ¹ / ₁₆	4 ¹ / ₁₆	3 ⁴ / ₄
9	10 ³ / ₈	8 ¹ / ₁₆	7 ³ / ₈	5 ³ / ₈	3 ⁸ / ₈	2 ¹¹ / ₁₆
10	8 ⁷ / ₂	6 ³ / ₈	6 ¹ / ₁₆	4 ³ / ₈	2 ¹² / ₁₆	2 ⁴ / ₄
11	6 ³ / ₄	5	4 ² / ₁₆	3 ⁵ / ₁₆	2 ¹ / ₁₆	1 ⁸ / ₈
12	6 ¹ / ₂	4 ² / ₄	4 ¹ / ₁₆	2 ¹² / ₁₆	1 ¹³ / ₁₆	1 ² / ₂
13	5 ³ / ₄	4 ⁴ / ₄	3 ⁷ / ₈	2 ¹² / ₁₆	1 ³ / ₄	1 ⁸ / ₈
14	5 ¹ / ₂	4 ¹ / ₁₆	3 ¹ / ₁₆	2 ¹ / ₁₆	1 ⁸ / ₈	1 ¹ / ₁₆

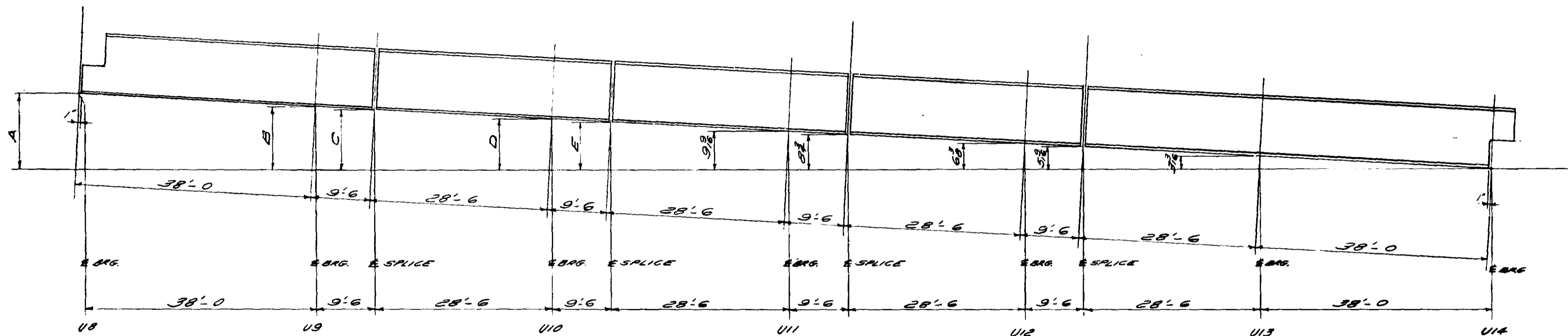
SHOP NOTE:
SEE DWG. E5 FOR SHIPPING MARKS
& FIELD SPLICE MATCH MARKS.

MINN. PROJ. I-IG 35W - 3 (58) 112
STATE PROJ. 2783-9340 B (35W-394)

ALLIED
ENGINEERS
FABRICATORS
ERECTOR

STRUCTURAL STEEL COMPANY
1425 15TH STREET, HAMMOND, INDIANA 46320

REVISIONS	DRAWN BY: <u>RL</u> DATE: <u>3/28/66</u>	DETAILS OF: <u>BLOCKING DIAGRAM - RR U4 TO U8</u>
	CHECKED BY: <u>FR</u> DATE: <u>5/19/66</u>	STRUCTURE: <u>BRIDGE NO. 9340</u>
	IN CHARGE OF: <u>HAMMOND</u>	LOCATION: <u>MINNEAPOLIS, MINNESOTA</u>
	FAB. PLANT: <u>HAMMOND</u>	OWNER: <u>MINNESOTA STATE HWY. DEPT.</u>
	REFERENCE DWGS: <u>E5</u>	
		CONTRACT: <u>3142</u> DIV. <u>718</u> FABCOD SHEET <u>SA-2</u>



BLOCKING DIAGRAM
(STRINGERS)

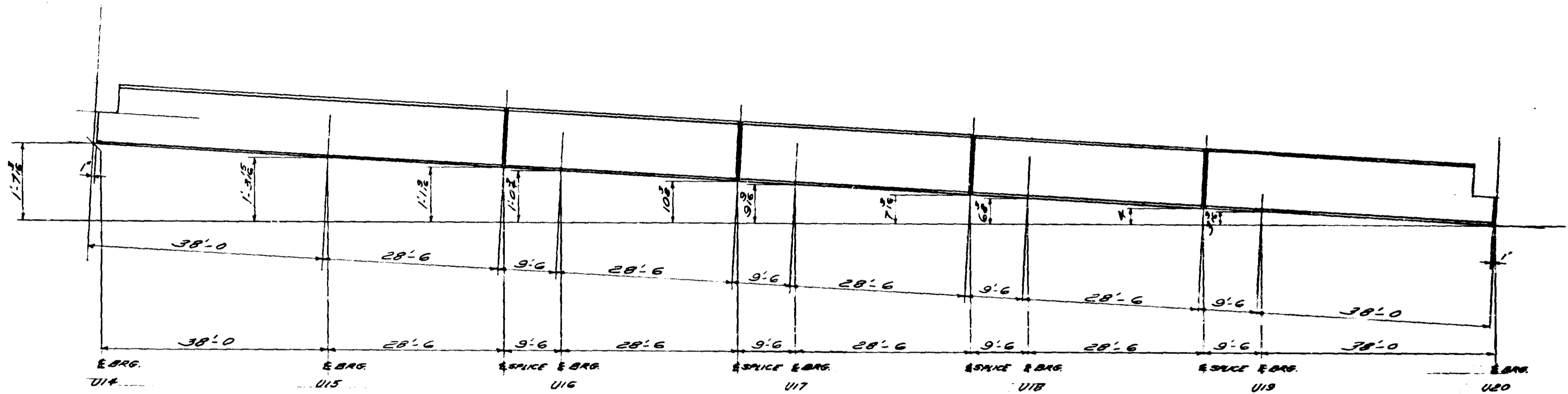
DIM. LINE	A	B	C	D	E
1	1-9 1/4	1-4 3/4	1-3 1/4	1-0 3/4	11 1/16
2	1-8	1-4 5/16	1-3 3/8	1-0 3/4	11 1/16
3	1-7 3/16	1-3 1/4	1-3 3/8	1-0 3/4	11 1/16
4	1-6 5/8	1-3 3/4	1-3	1-0 3/4	11 1/16
5	1-6 5/8	1-3 3/4	1-3	1-0 3/4	11 1/16
6	1-7 3/16	1-3 1/4	1-3 3/8	1-0 3/4	11 1/16
7	1-7 3/16	1-3 1/4	1-3 3/8	1-0 3/4	11 1/16
8	1-7 3/16	1-3 1/4	1-3 3/8	1-0 3/4	11 1/16
9	1-6 5/8	1-3 3/4	1-2 1/2	1-0 3/4	11 1/16
10	1-5 5/8	1-3 3/8	1-2 5/8	1-0 3/4	11 1/16
11	1-4 3/4	1-2 1/2	1-2 1/2	1-0 3/4	11 1/16
12	1-4 3/4	1-2 1/2	1-2 1/2	1-0 3/4	11 1/16
13	1-4 3/4	1-2 1/2	1-2 1/2	1-0 3/4	11 1/16
14	1-4 3/4	1-2 1/2	1-2 1/2	1-0 3/4	11 1/16

SHOP NOTE:
SEE DWG. EG FOR SHIPPING MARKS
& FIELD SPLICE MATCH MARKS.

MINN PROJ. I-1635W-3(58) 112
STATE PROJ. 2183-9340B (35W-394)

ALLIED STRUCTURAL STEEL COMPANY
ENGINEERS, FABRICATORS, ERECTORS
1425-15TH STREET, HAMMOND, INDIANA 46320

REVISIONS	DRAWN BY: <u>TL</u> DATE: <u>3-23-66</u>	DETAILS OF: <u>BLOCKING DIAGRAM - RR. US TQU14</u>
	CHECKED BY: <u>SE</u> DATE: <u>3/16/66</u>	STRUCTURE: <u>BRIDGE NO. 3340</u>
	IN CHARGE OF:	LOCATION: <u>MINNEAPOLIS, MINNESOTA</u>
	FAB. PLANT: <u>HAMMOND</u>	OWNER: <u>MINNESOTA STATE HWY. DEPT.</u>
	REFERENCE DWG: <u>EG</u>	
	CONTRACT: <u>3742</u>	DIV. <u>118</u> FABCOD: <u>118</u> SHEET: <u>118</u>



BLOCKING DIAGRAM
(STRINGERS)

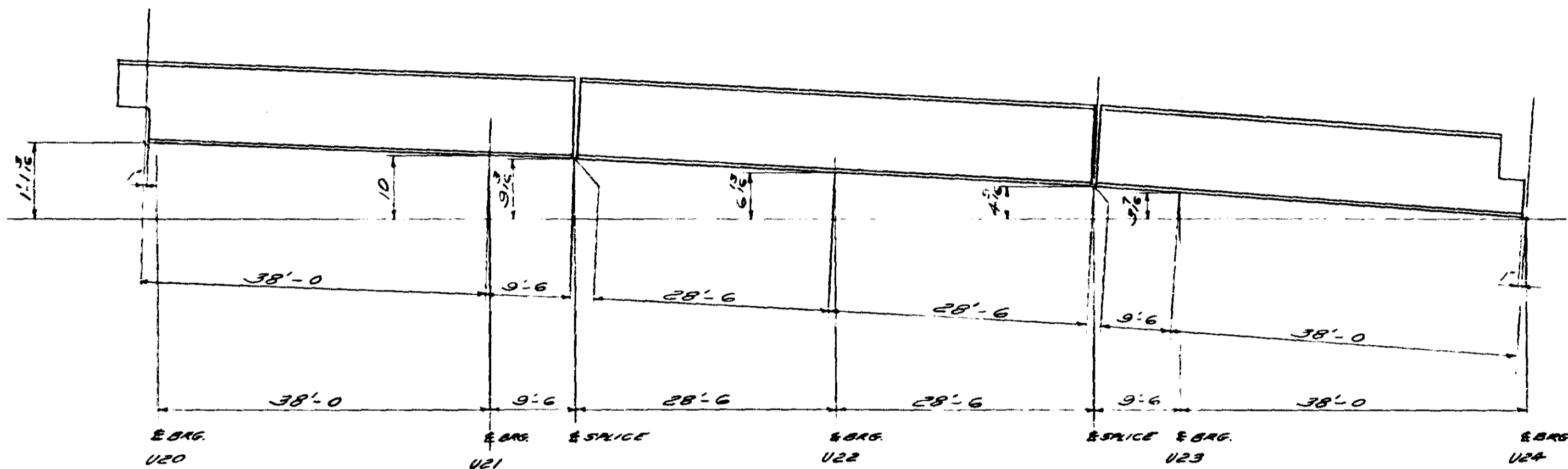
SHOP NOTES:

STRINGERS S1 THRU S14 BLOCKED
IN STRAIGHT LINE BETWEEN RT 14
AND R.P. 20.
SEE DWG. E7 FOR SHIPPING MARKS.
SEE DWG. E4 FOR TYPICAL MATCH
MARKING.

MINN PROJ. 1-IG-35W-3(58)112
STATE PROJ. 2783-9340B (25W-314)

ALLIED STRUCTURAL STEEL COMPANY
210 - 22ND
FABRICATORS
ERECTOR
1430 10TH STREET, HARBOR SPRING, MINN. 55127

REVISIONS	DRAWN BY <u>TL</u> DATE <u>3/25/66</u>	DETAILS OF <u>BLOCKING DIAGRAM - R.P. 14 TO 20</u>
	CHECKED BY <u>SE</u> DATE <u>5/19/66</u>	STRUCTURE <u>BRIDGE NO. 9340</u>
	IN CHARGE OF _____	LOCATION <u>MINNEAPOLIS, MINNESOTA</u>
	FAB PLANT <u>HAMMOND</u>	OWNER <u>MINNESOTA STATE HWY. DEPT.</u>
REFERENCE DWGS <u>E7 & E4</u>	CONTRACT <u>3102</u>	12/17 DIV. <u>1A</u> FABCOD SHEET <u>3-3</u>



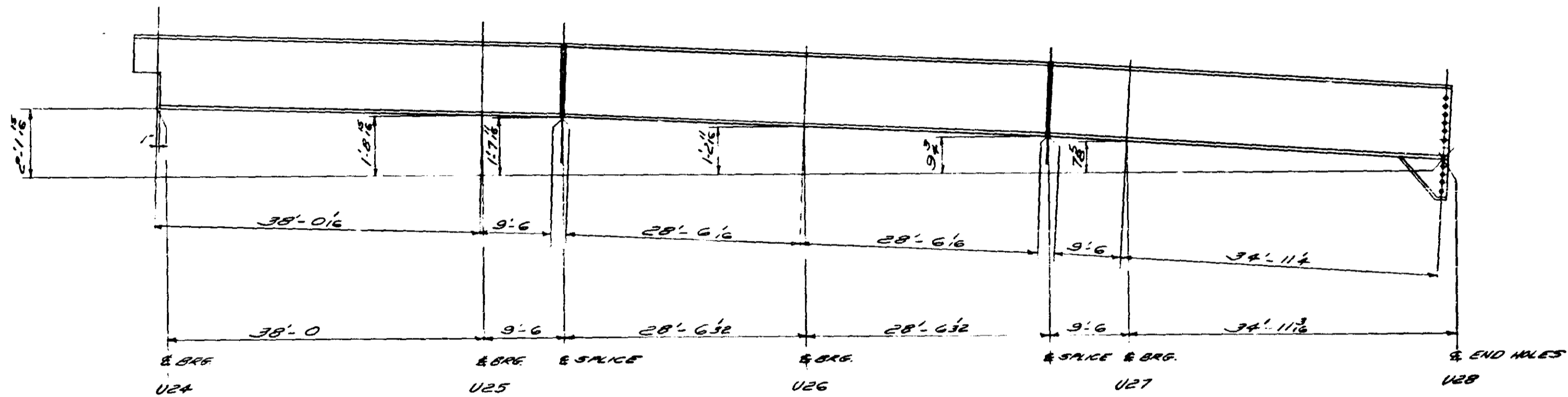
BLOCKING DIAGRAM
(STRINGERS)

SHOP NOTE:
SEE DWG. EB FOR SHIPPING
MARKS & FIELD SPlice MATCH
MARKS.

MINN PROJ. I-16 35W-3(58) 112
STATE PROJ. 2183-9340B (35W-394)

ALLIED STRUCTURAL STEEL COMPANY
ENGINEERS FABRICATORS ERECTORS
1222 13TH STREET, HARBOR, INDIANAPOLIS, INDIANA 46204

REVISIONS	DRAWN BY <u>TL</u> DATE <u>3/28/66</u>	DETAILS OF <u>BLOCKING DIAGRAM - BRIDGE NO. 3340</u>
	CHECKED BY <u>FB</u> DATE <u>3/19/66</u>	STRUCTURE <u>BRIDGE NO. 3340</u>
	IN CHARGE OF <u>HANFORD</u>	LOCATION <u>MINNEAPOLIS, MINNESOTA</u>
	FAB PLANT <u>HANFORD</u>	OWNER <u>MINNESOTA STATE HWY. DEPT.</u>
REFERENCE DWGS <u>EB</u>		
Q U B <	CONTRACT <u>3:42</u>	DIV. <u>1112</u> FABCOD SHEET <u>5A-5</u>



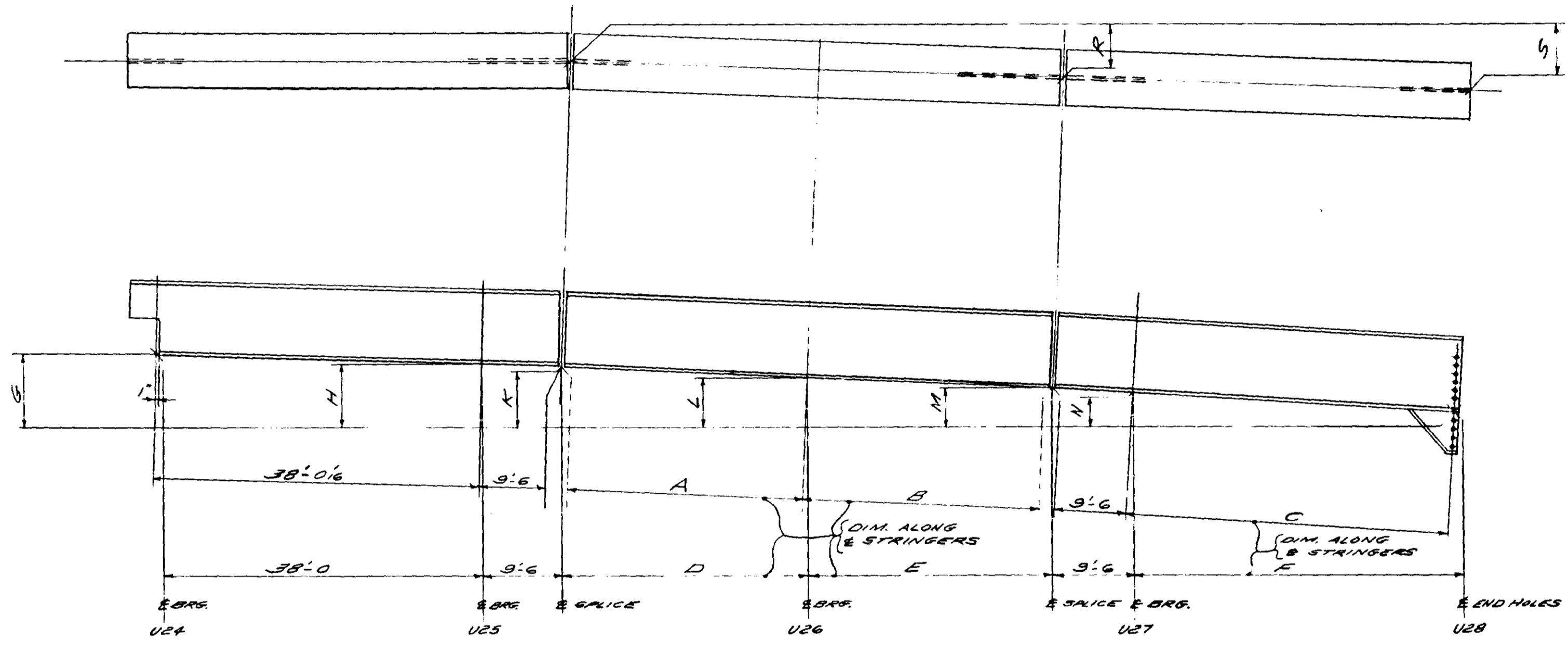
BLOCKING DIAGRAM
(STRINGERS)

SHOP NOTES:
 BLOCKING DIAGRAM FOR STRINGERS
 LINE 4 THRU 14, SEE DWG. SA-7 FOR
 LINE 1 THRU 3.
 SEE DWG. E9 FOR SHIPPING MARKS
 & FIELD SPlice MATCH MARKS.

MINN. PROJ. I-16 35W-3(58) 112
 STATE PROJ. 2783-9340B (35W-394)

ALLIED STRUCTURAL STEEL COMPANY
 ENGRS. FABRICATORS ERECTORS
 1112 14TH STREET, WARREN, INDIANA 46784

REVISIONS	DRAWN BY: <u>RL</u> DATE: <u>3/30/66</u>	DETAILS OF: <u>BLOCKING DIAGRAM - LINE 4 THRU 14</u>					
	CHECKED BY: <u>JS</u> DATE: <u>3/19/66</u>	STRUCTURE: <u>BRIDGE NO. 9340</u>					
	IN CHARGE OF:	LOCATION: <u>MINNEAPOLIS, MINNESOTA</u>					
	FAB PLANT:	OWNER: <u>MINNESOTA STATE HWY. DEPT.</u>					
	REFERENCE DWGS: <u>E9 5A-7</u>						
0	U	B	C	CONTRACT: <u>3142</u>	DIV: <u>131A</u>	FABCOD:	SHEET: <u>5A-6</u>



**BLOCKING DIAGRAM
(STRINGERS)**

DIM. STA. LINE	A	B	C	D	E	F	G	H	K	L	M	N	R	S
1	28'-6 1/8	28'-6 1/8	34'-11 1/8	28'-6 1/16	28'-6 1/16	34'-11 1/8	2'-5 1/16	1'-11 3/8	1'-10 3/8	1'-4 5/16	10 3/16	8	1'-0 3/8	1'-10 3/8
2	28'-6 1/16	28'-6 1/16	34'-11 1/16	28'-6	28'-6	34'-11 1/16	2'-2 1/16	1'-9 1/16	1'-8 1/4	1'-2 1/16	9 1/2	7 1/2	8 1/2	1'-3
3	28'-6 1/16	28'-6 1/16	34'-11 1/4	28'-6	28'-6	34'-11 1/4	2'-1 1/8	1'-8 7/8	1'-7 7/8	1'-2 1/16	9 3/8	7 9/16	4 1/2	7 1/2

SHOP NOTES:
 BLOCKING DIAGRAM FOR STRINGERS
 LINE 1 THRU 3, FOR LINES 4 THRU
 14 SEE DWG. 5A-C.
 SEE DWG. E9 FOR SHIPPING MARKS
 & FIELD SPALICE MARKS.

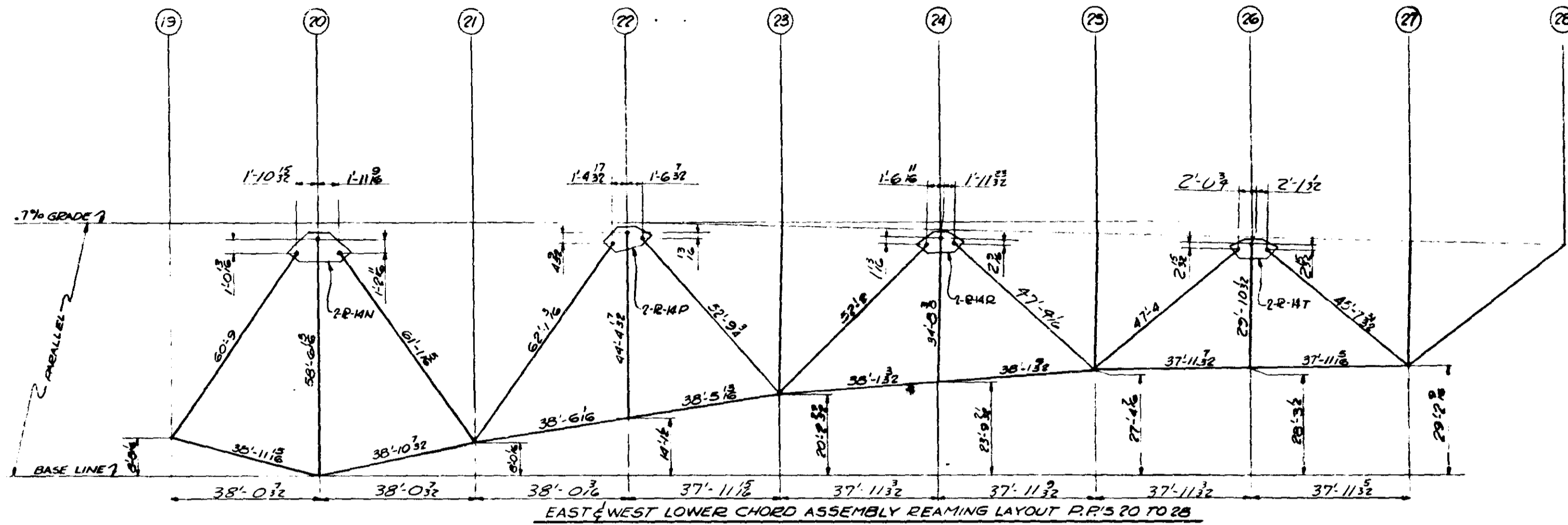
MINN. PROJ. I-IG 35W-3 (58) 112
 STATE PROJ. 2783-9340B (35W-394)

ALLIED
 ENGINEERS
 FABRICATORS
 ERECTORS

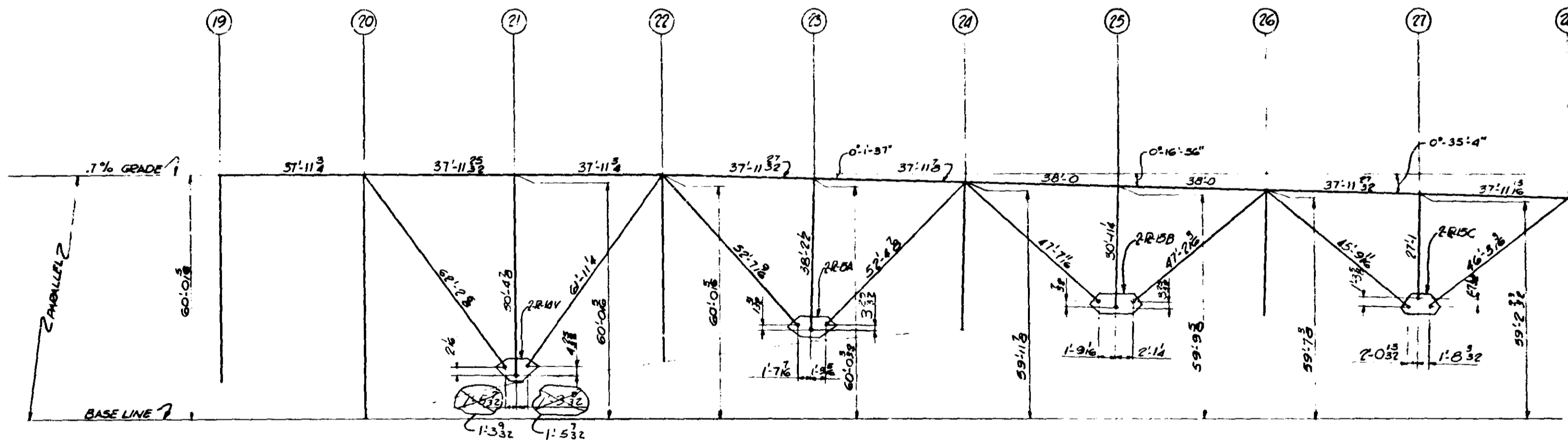
STRUCTURAL STEEL COMPANY
 1001 10TH STREET, HARBOR, MINN. 55404

REVISIONS	DRAWN BY <u>TL</u> DATE <u>3/31/66</u>	DETAILS OF <u>BLOCKING DIAGRAM - LINE 1 THRU 3</u>
	CHECKED BY <u>SE</u> DATE <u>5/19/66</u>	STRUCTURE <u>BRIDGE NO. 9340</u>
	IN CHARGE OF _____	LOCATION <u>MINNEAPOLIS, MINNESOTA</u>
	FAB. PLANT <u>HAMMOND</u>	OWNER <u>MINNESOTA STATE HWY. DEPT.</u>
REFERENCE DWG. <u>E9</u>		
D U B K	CONTRACT <u>3142</u>	DIV. <u>1114</u> FABCOD SHEET <u>5A-7</u>

X	0	1	2	3
Q	X			
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EAST & WEST LOWER CHORD ASSEMBLY REAMING LAYOUT P.P.'S 20 TO 28



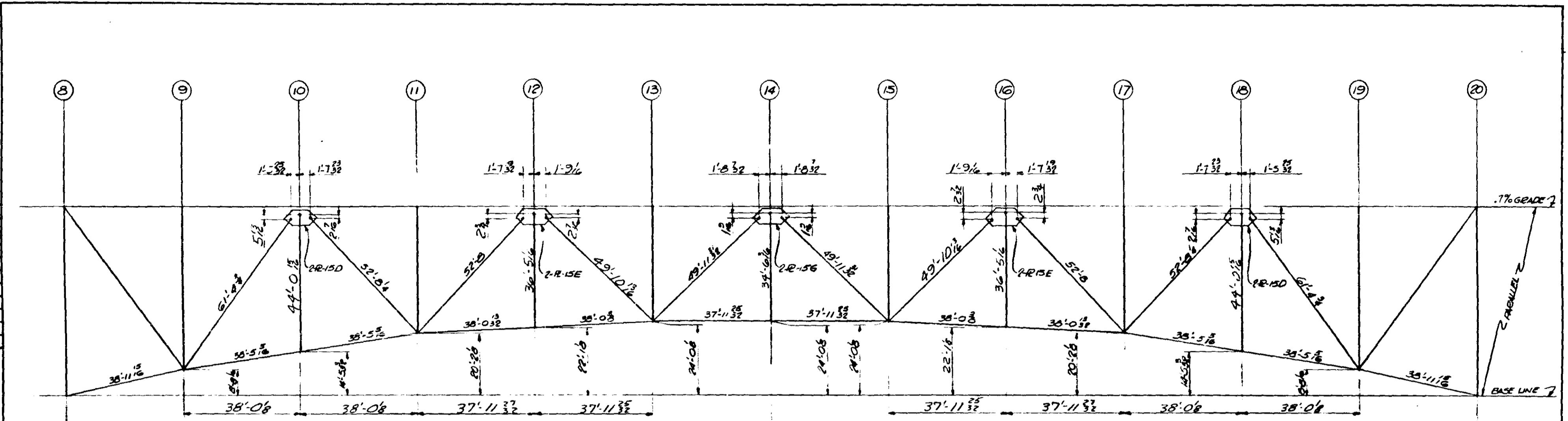
EAST & WEST UPPER CHORD ASSEMBLY REAMING LAYOUT P.P.'S 20 TO 28

MINN. Proj. No. I-IG 35W-3 (58) 112
 STATE Proj. No. 2783-9340B (7435W-304)

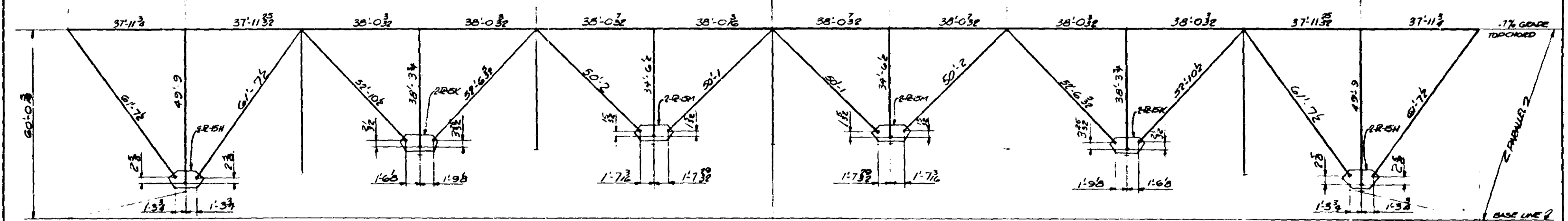


REVISIONS 4.22-67	DRAWN BY: <i>[Signature]</i> DATE: 3-21-66	DETAILS OF: LAYDOWN (PARTIAL) PTS 19 TO 28
	CHECKED BY: <i>[Signature]</i> DATE: 5/16/66	STRUCTURE: BRIDGE NO. 9340
	IN CHARGE OF:	LOCATION: MINNEAPOLIS, MINNESOTA
	FAB. PLANT:	OWNER: MINNESOTA STATE HWY. DEPT.
REFERENCE DWGS:	CONTRACT: 3142	DIV.:
REF. L?	FABCOD:	SHEET: RA2

X	0	1	2	3
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EAST WEST LOWER CHORD ASSEMBLY REAMING LAYOUT RP'S 9 TO 20



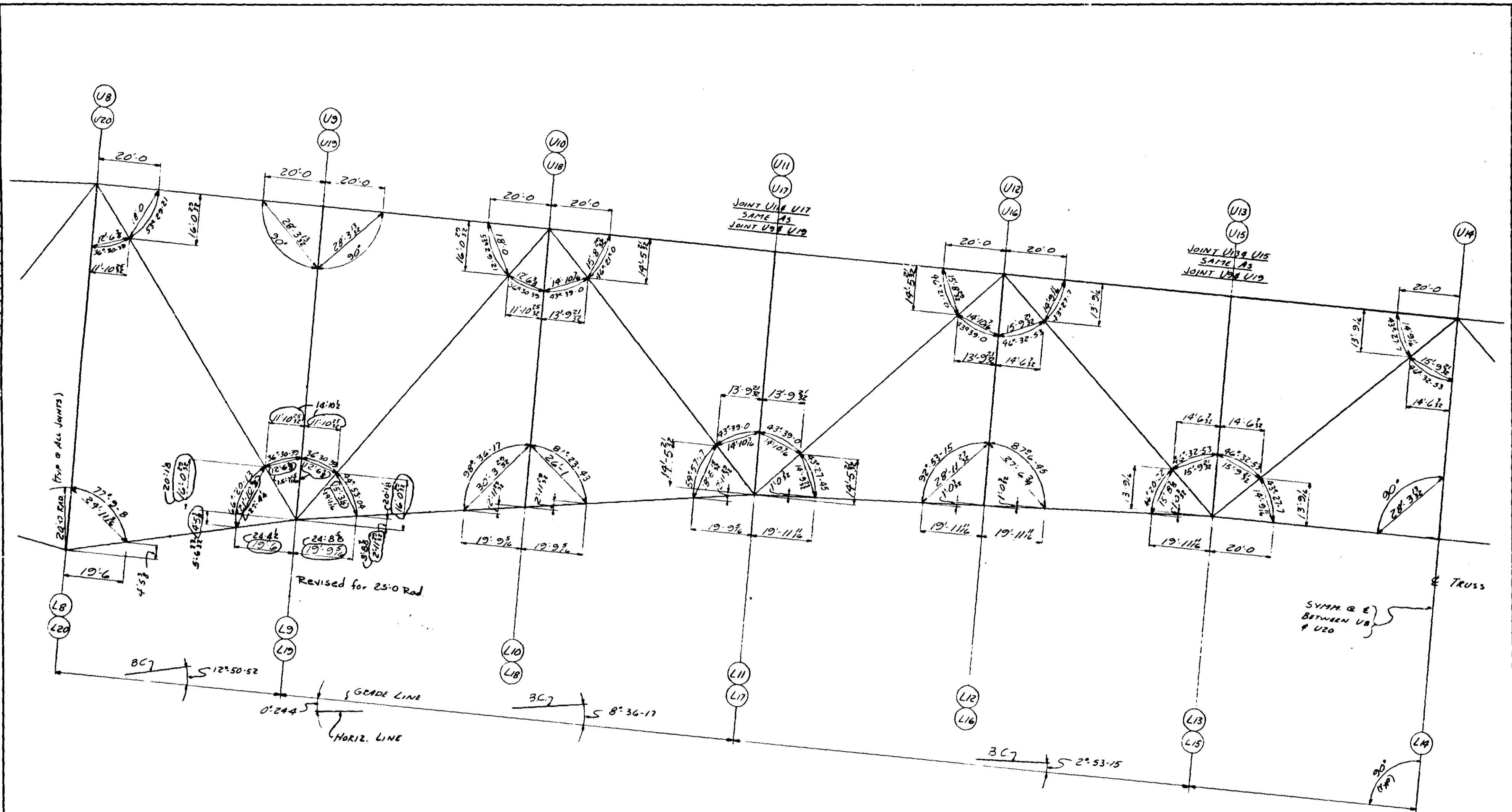
EAST WEST UPPER CHORD ASSEMBLY REAMING LAYOUT RP'S 9 TO 20

MINN. PROJ. No. I-1635W-3 (58) 112
 STATE PROJ. No. 2783-9340B (TH 35W-394)

ALLIED ENGINEERS FABRICATORS Erectors 1425 15TH STREET, MINNEAPOLIS, MINN. 55412	STRUCTURAL STEEL COMPANY <small>1425 15TH STREET, MINNEAPOLIS, MINN. 55412</small>
	DETAILS OF LAYDOWN (PARTIAL) PTS. 9 TO 20 STRUCTURE BRIDGE NO. 9340
DRAWN BY: EB DATE: 3-24-60 CHECKED BY: FB DATE: 5/11/60 IN CHARGE OF: _____ FAB PLANT: _____ REFERENCE DWGS: _____	LOCATION MINNEAPOLIS, MINNESOTA OWNER MINNESOTA STATE HWY. DEPT.
CONTRACT 3142 DIV. _____ FABCOD _____ SHEET RA3	

REF. L2	0	U	B	<
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X	0	1	2	3
1	X			
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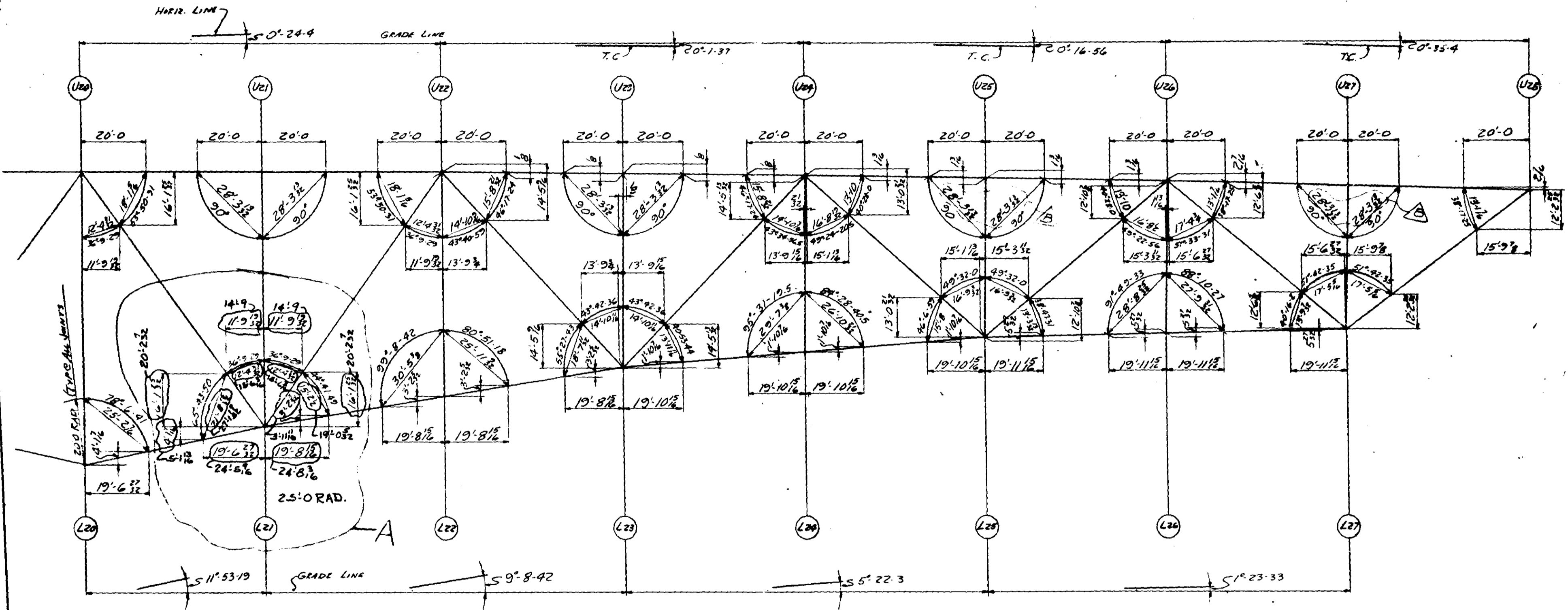
SHOP NOTE
FOR GEN. NOTES
SEE SH. GNI

MINN. PROJ. No. I-1635W-3(58) 112
STATE PROJ. No. 2783-9340B(7H35W-399)

ALLIED STRUCTURAL STEEL COMPANY
ENGINEERS, FABRICATORS, ERECTORS
1200 15TH STREET, WARREN, ILLINOIS 60089

REVISIONS 3-7-67 Q U A	DRAWN BY <u>D. J.</u> DATE <u>3-31-66</u> CHECKED BY <u>[Signature]</u> DATE <u>4/21/66</u> IN CHARGE OF <u>J. NEWELL</u> FAB. PLANT <u>HAMILTON</u> REFERENCE DWG.	DETAILS OF <u>MINNESOTA FIRE SHIP REPAIRS OF TRUSS MEMBERS</u> STRUCTURE <u>BRIDGE No. 9340</u> LOCATION <u>MINNEAPOLIS, MINNESOTA</u> OWNER <u>MINNESOTA STATE HWY. DEPT.</u>
	CONTRACT <u>3142</u>	DIV.
	FABCOB	SHEET <u>RAG</u>

X	0	1	2	3
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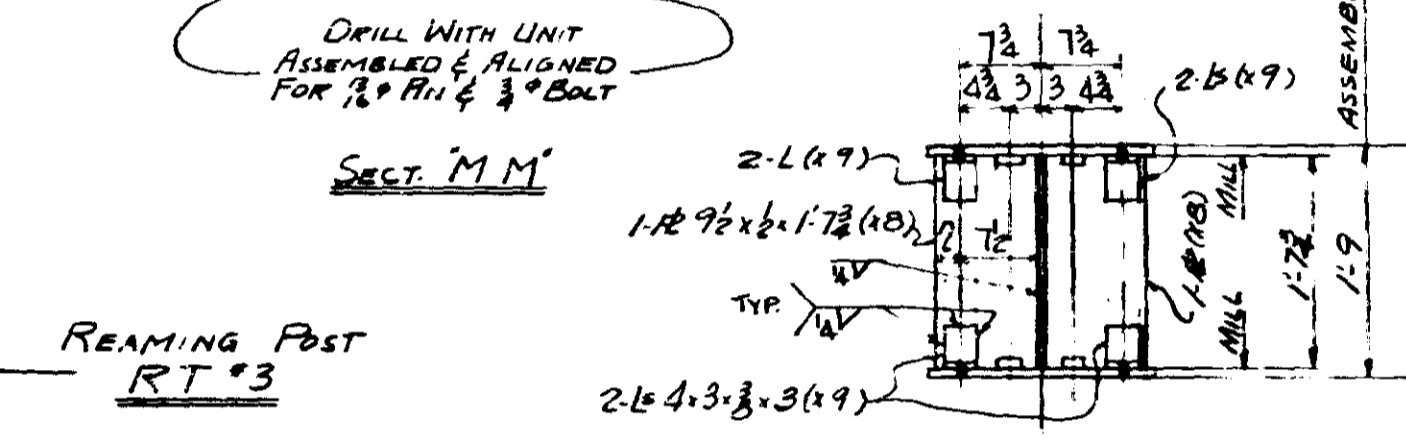
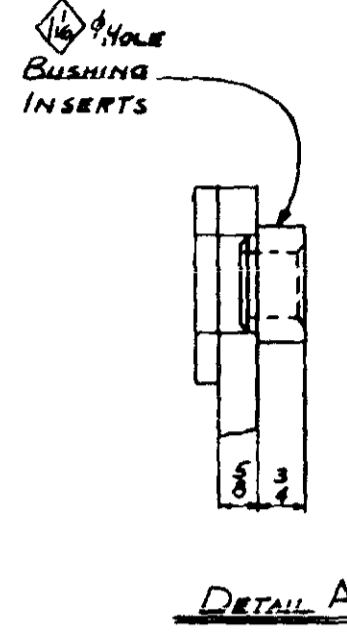
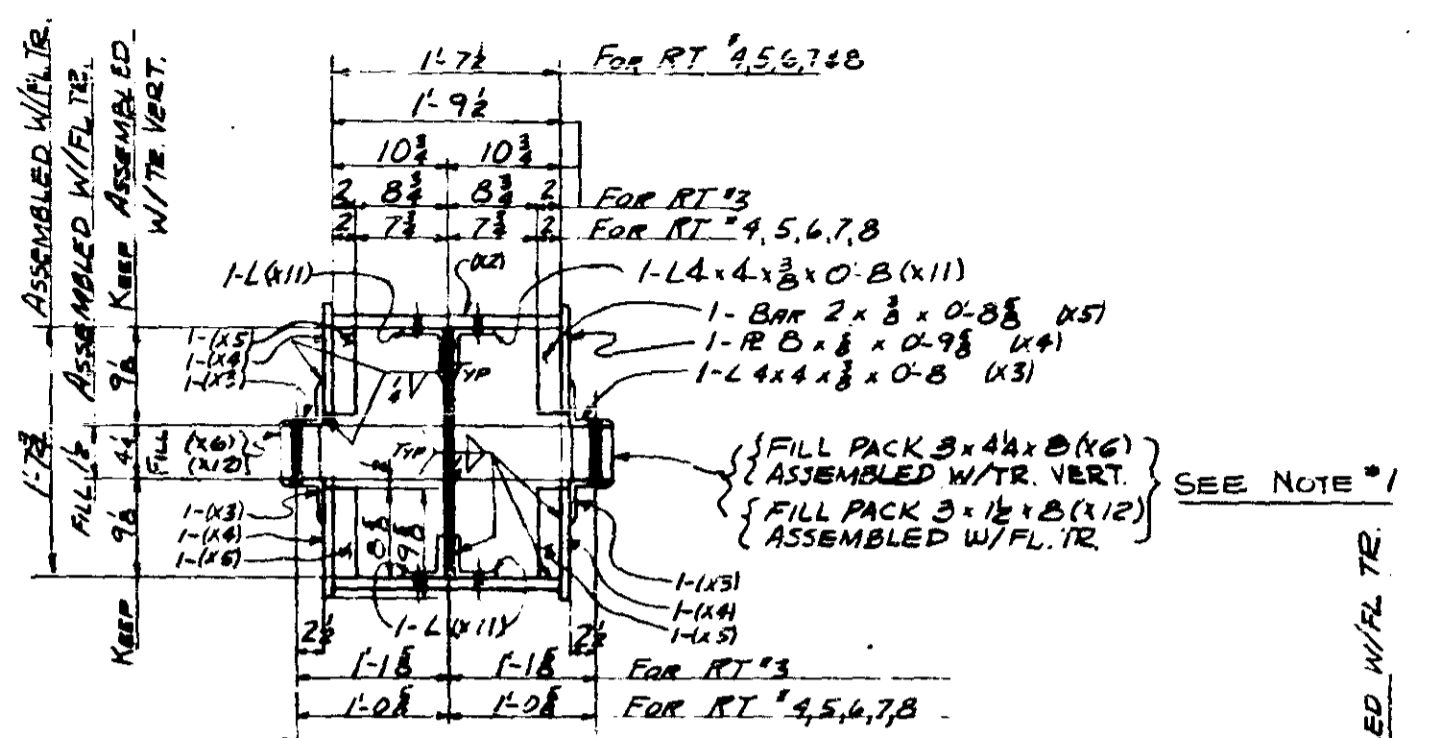
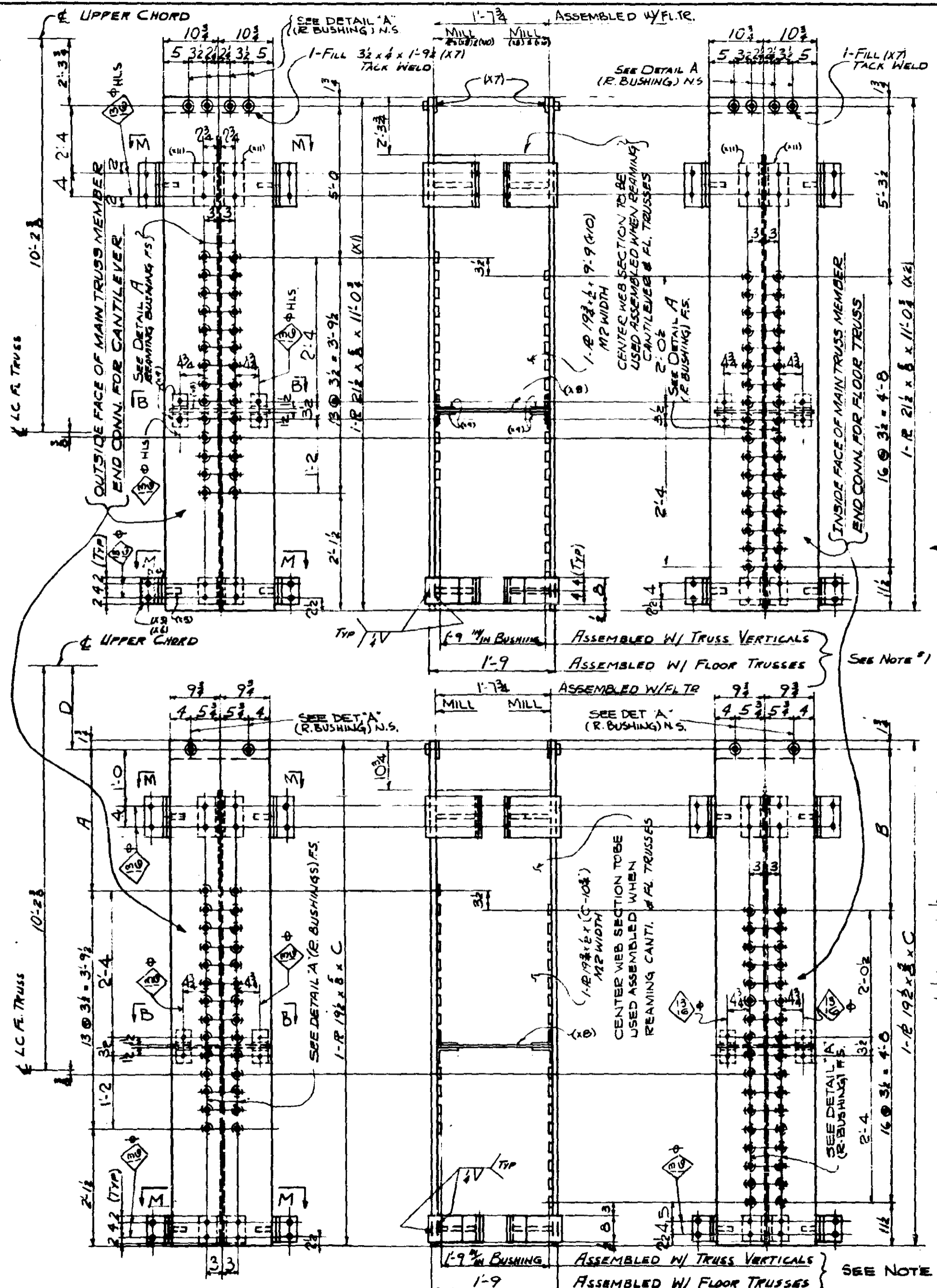


SHOP NOTE
FOR GEN. NOTES
SEE SHEET GNI

MINN. PROJ. No. I-1635W-3 (58) 112
STATE PROJ. No. 2783-9340B (TH35W-399)

ALLIED STRUCTURAL STEEL COMPANY
ENGINEERS FABRICATORS Erectors
1000-10TH STREET, HARBOR, MINNAPOLIS, MINN.

REVISIONS	1	DRAWN BY D.J.	DATE 9-9-66	DETAILS OF DIMENSIONS FOR SHOP REPAIRS OF TRUSS MEMBERS
	2	CHECKED BY J.P.	DATE 11-22-66	STRUCTURE BRIDGE No. 9340
		IN CHARGE OF		LOCATION MINNEAPOLIS, MINNAPOLIS
		FAB. PLANT HARMON		OWNER MINNESOTA STATE HIGHWAY DEPT.
		REFERENCE DWGS.		
				CONTRACT 3/42 DIV. FABCOID SHEET RAG



REAMING POSTS RT3 thru RT8 TO BE USED AT HAMMOND PLANT AND CLINTON PLANT

SECT. B-B

REAMING TEMPLATE SCHEDULE

RT #	SHEET NUMBERS & NUMBER OF TIMES USED																	
#3	109	H	130	2	207	C	613	H	902	H	912	E	1203	H	1305	E	1805	C
#3	141	H	142	2	1002	H	1105	E	1206	2	1307	2	1702	C	1701	2	1701	4
#3	1906	H	1905	4	1513	H	1519	C	1601	2	1702	2	1701	2	1701	4		
#4	806	E	808	2	903	H	1001	H	913	C	1207	C	1207	2	1306	C	1309	2
#4	1401	H	2-1801	2	1401	H	2-1801	2	910	2								
#5	814	H	708	2	707	2	1106	C										
#6	1514	H	1520A	2	1705	C												
#7	1607	H	1602	4	1611	H	1520B	H										
#8	1902	C	1901	2	1907	H												

NOTE #1:
 FILL PACK (X6) TO BE USED WHEN REAMING TRUSS VERTICALS.
 FILL PACK (X12) TO BE USED WHEN REAMING FLOOR TRUSSES & CANTILEVER TR.

RT	A	B	C	D
#4	4-0 7/8	4-3 1/8	10-1 1/8	3-3 3/8
#5	5-5	3-5 1/2	9-5 3/4	3-4 0 1/4
#6	2-7 1/4	2-10 1/4	8-8	4-8 1/2
#7	3-5 3/8	3-8 3/8	9-6 1/8	3-10 1/8
#8	4-4	4-7 1/2	10-4 3/4	2-4 1/4

MINN. PROJ. NO. 2-IG 35W-3(38)112
 STATE PROJ. NO. 2783-9540B(TH35W. 374)

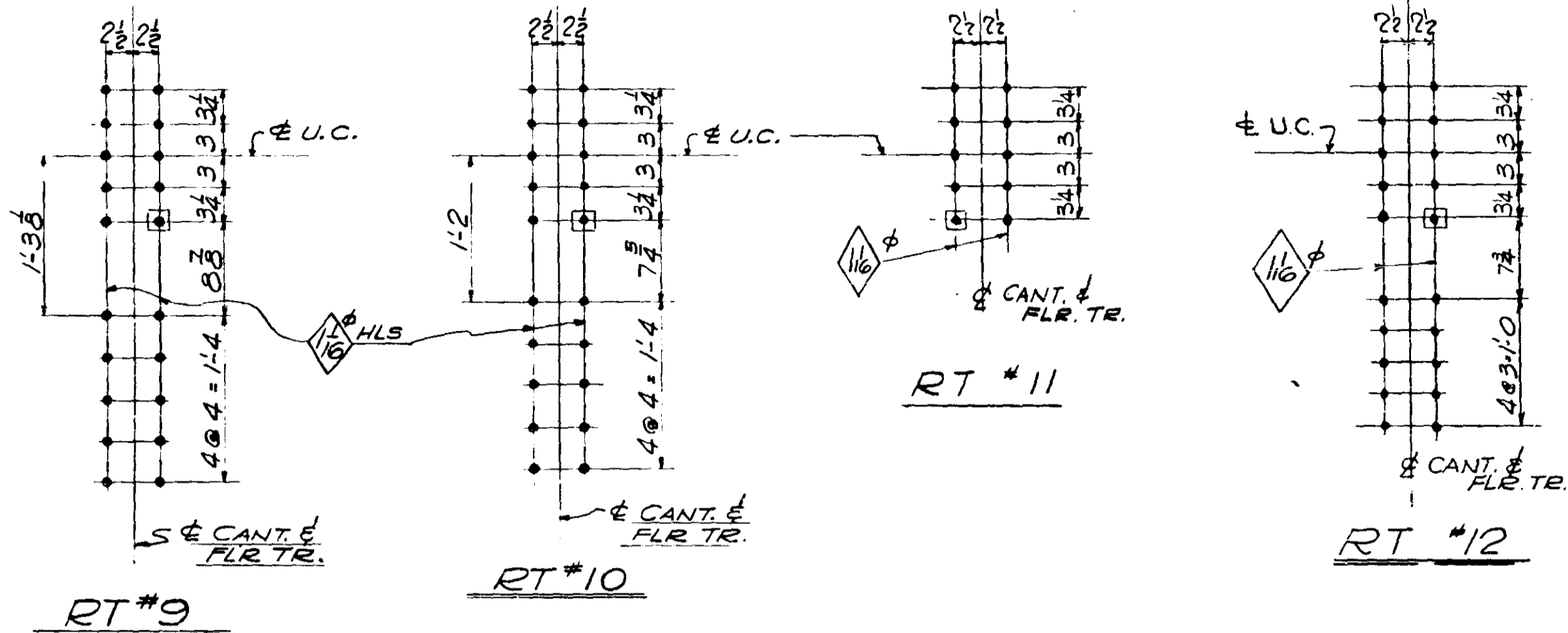
ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS, FABRICATORS, ERECTORS
 1225 12TH STREET, HARBOR, MINN. 55412

DETAILS OF: **REAMING TEMPLATE**
 BRIDGE NO. 9340

MINNEAPOLIS, MINNESOTA
 MINN. STATE HWY. DEPT.

CONTRACT 3142 DIV. 7411 FABCOO SHEET RT2

X	0	1	2	3
0	X			
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REAMING TEMPLATE SCHEDULE

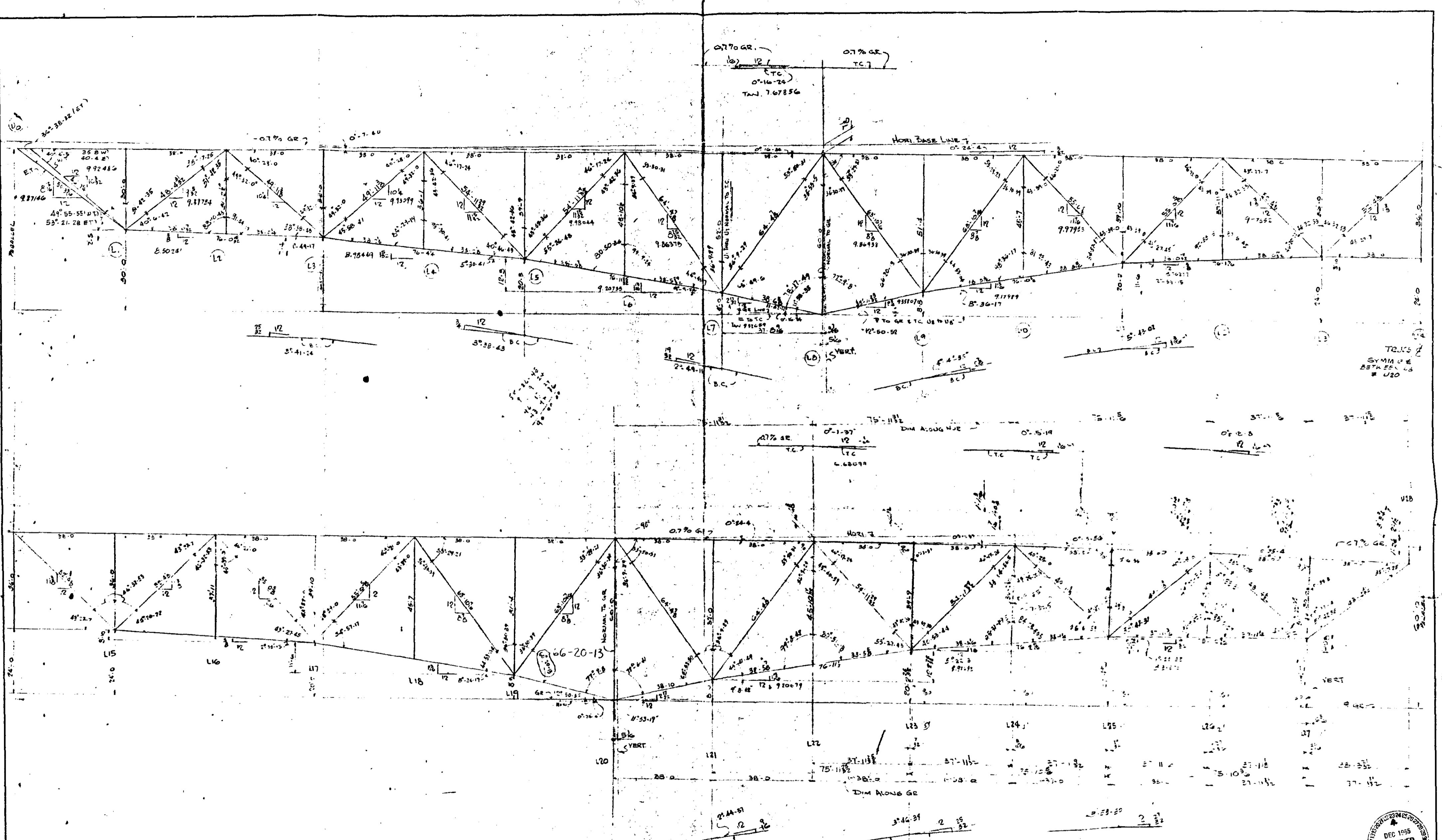
RT	SHT NUMBERS & NUMBER OF TIMES USED																	
#9	703	2	1109	2														
	730	2	738C	2														
#10	703	1	703	1	703	1	811	1	811	1	811	1	811	1	901	1	901	1
	707	1	732	1	734	1	808	1	809	1	817	1	818	1	917	1	918	1
#10	901	1	901	1	1011	1			1205	2	1205	2	1301	2	1301	1	1301	1
	915	1	915	1	1021	1			1206	2	1207	2	1307	2	1308	1	1309	1
#10	1405	1	1405	1	1516	2	1516	4	1602	4	1602	4	1516	2	1905	4		
	1412	1	1413	1	1518	2	1520A	4	1601	4	1520	4	1701	2	1701	4		
#10	1109	2	1109	2														
	1112	2	1113	2														
#11	1905	2																
	1901	2																
#12	1012	1																
	1022	1																

MINN. PROJ. NO I-1635W-3(5B)112
 STATE PROJ. NO 2755-9340B (TH35W-394)

ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS FABRICATORS ERECTORS
 1220 12TH STREET, WASHINGTON, INDIANA 47303

REVISIONS	DRAWN BY: <u>ST</u> DATE: <u>5/20/68</u>	DETAILS OF: <u>REAMING TEMPLATE</u>
	CHECKED BY: _____ DATE: _____	STRUCTURE: <u>BRIDGE NO 9340</u>
	IN CHARGE OF: <u>J. NEWBY</u>	LOCATION: <u>MINNEAPOLIS, MINN.</u>
	FAB PLANT: <u>ELIOT</u>	OWNER: <u>MINNESOTA STATE HWY. DEPT.</u>
REFERENCE DWGS: _____	OWNER: _____	
D U B <	CONTRACT: <u>3142</u>	Div. _____ FABCOD _____ SHEET: <u>RT3</u>

X	0	1	2	3
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APPROVAL IS SUBJECT TO CONTRACT REQUIREMENTS AND CHANGES INDICATED IN RED, IF ANY HEREIN.

APPROVED
STATE OF MINNESOTA
JAN 3 1966
DEPT. OF HIGHWAYS
A. E. LaBonte
BRIDGE ENGINEER

Minn. Proj. No I16354-3(58)112
State Proj. No 2783-08 (TH354) 394

OPEN HOLES	RIVETS & BOLTS	PAINT		
DRAWN BY <i>G.H.</i>	DATE	CHECKED BY <i>J.H.</i> DATE		
REVISIONS	△	△	△	△

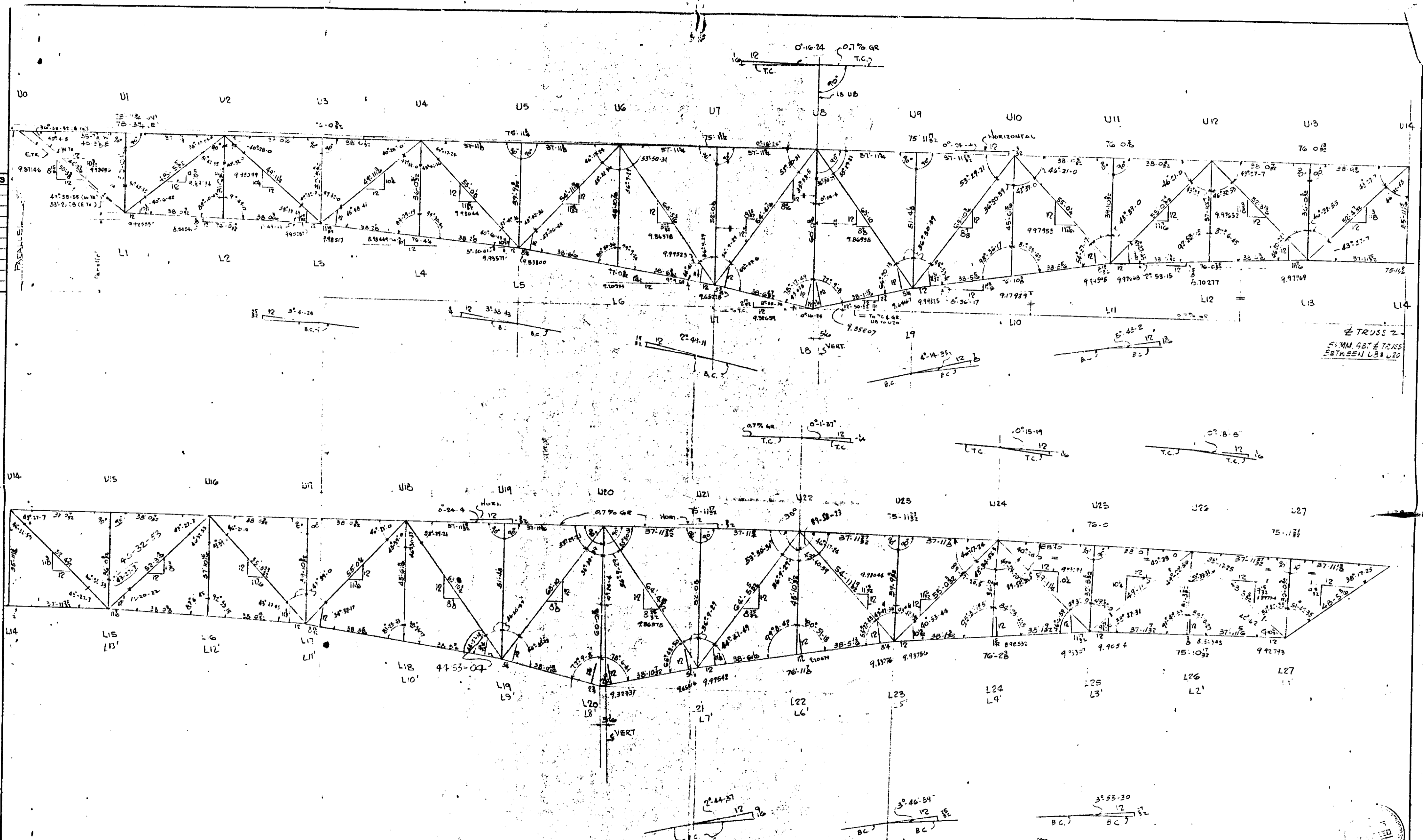
ALLIED STRUCTURAL STEEL COMPANIES
CLINTON BRIDGE CORP. & GAGE STRUCTURAL STEEL CORP. & MIDLAND STRUCTURAL STEEL CORP.
ENGINEERS - FABRICATORS - ERECTORS OF BUILDINGS AND BRIDGES
20 NORTH WACKER DRIVE CHICAGO 6, ILLINOIS

DETAILS OF **GEOMETRIC SHAPE OF TRUSS SPAN**
STRUCTURE **BRIDGE # 9340**
LOCATION **MINNEAPOLIS**
OWNER **STATE OF MINN.**
CUSTOMER



SHEET **L1**
M. H. D. - FILE

X	0	1	2	3
4	5	6	7	8
9	10	11	12	13
14	15	16	17	18
19	20	21	22	23
24	25	26	27	28
29	30	31	32	33
34	35	36	37	38
39	40	41	42	43
44	45	46	47	48
49	50	51	52	53
54	55	56	57	58
59	60	61	62	63
64	65	66	67	68
69	70	71	72	73
74	75	76	77	78
79	80	81	82	83
84	85	86	87	88
89	90	91	92	93
94	95	96	97	98
99	100	101	102	103



APPROVAL IS SUBJECT TO CONTRACT REQUIREMENTS AND CHANGES INDICATED IN RED, IF ANY HEREIN.

APPROVED
 STATE OF MINNESOTA
 JAN 3 1968
 DEPT. OF HIGHWAYS
W. J. Schmitt
 BRIDGE ENGINEER

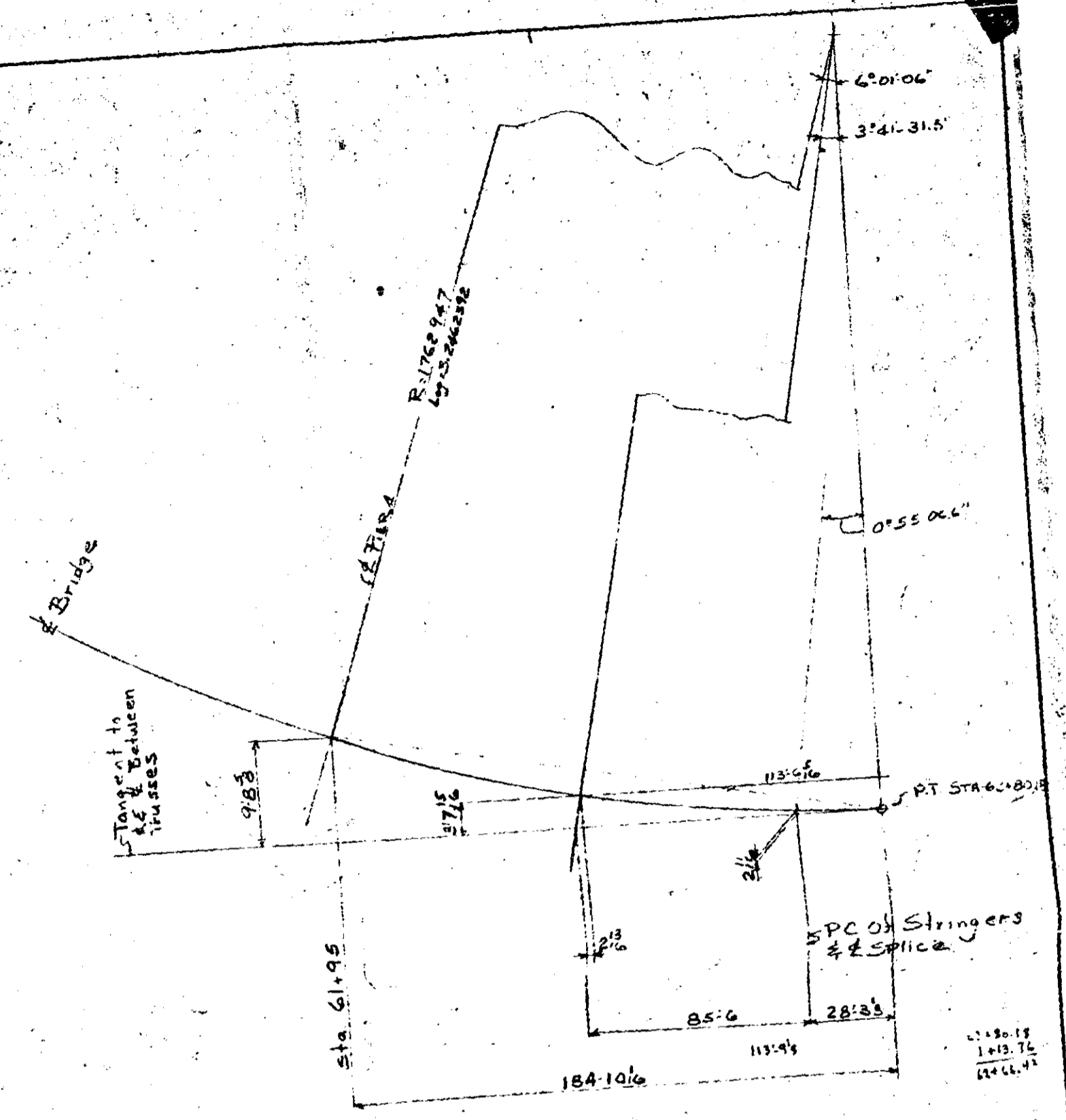
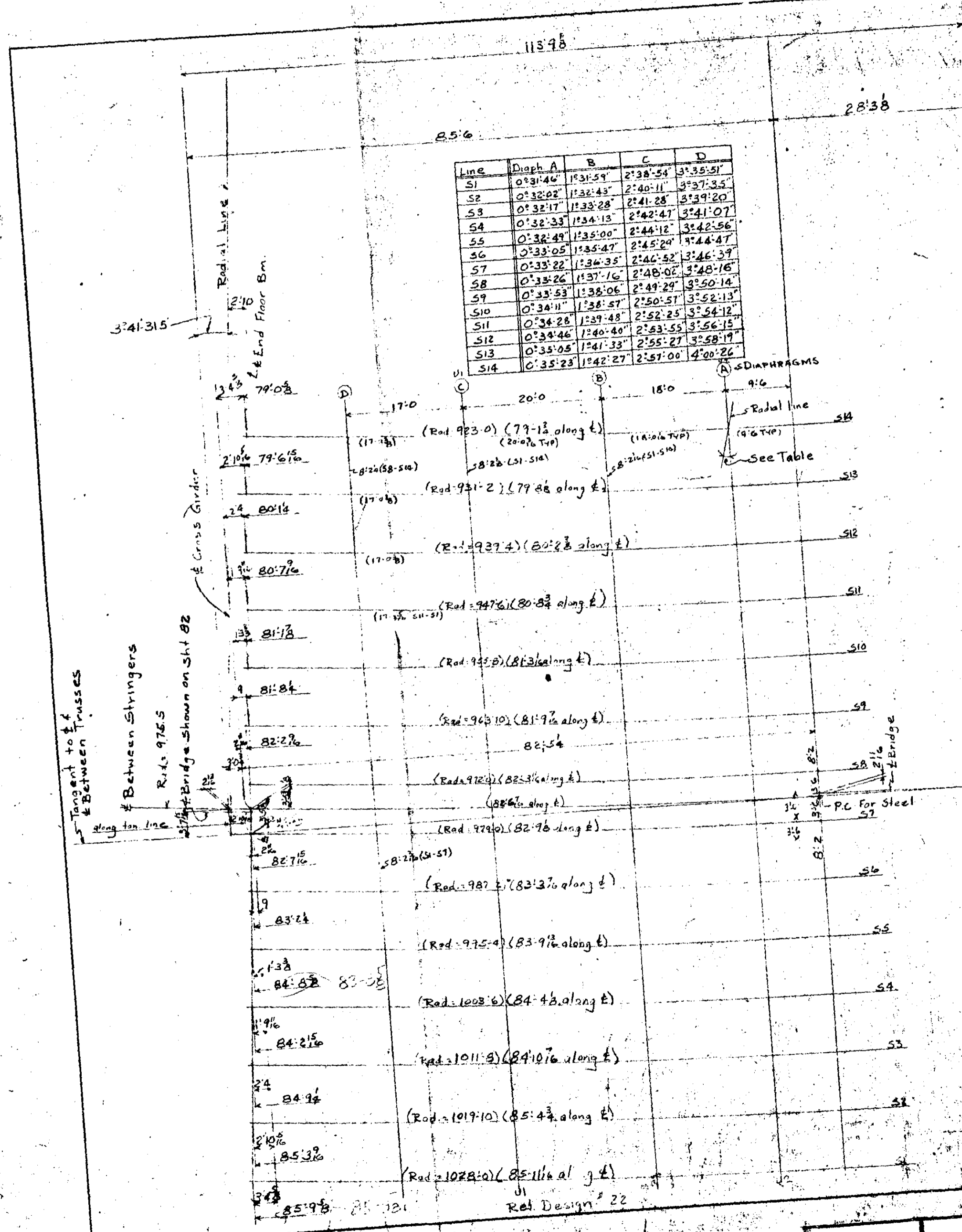
Minn. Proj. No. I-16 35W-3(58)112
 State Proj. No. 2783 08 (TH35W-394)

OPEN HOLES	RIVETS & BOLTS	PAINT
DRAWN BY GN	DATE	CHECKED BY JN DATE 12/2/67
REVISIONS	△	△

ALLIED STRUCTURAL STEEL COMPANIES	
CLINTON BRIDGE CORP. • GAGE STRUCTURAL STEEL CORP. • MIDLAND STRUCTURAL STEEL CORP.	
ENGINEERS - FABRICATORS - ERECTORS OF BUILDINGS AND BRIDGES	
20 NORTH WACKER DRIVE CHICAGO 6, ILLINOIS	
DETAILS OF	DEADWOOD JAMBS - DASCAM - LENGTHS & BEVELS (GEOMETRIC) TO BE USED IN DETAILING
STRUCTURE	BRIDGE # 9397 MINNEAPOLIS MINN
LOCATION	STATE OF MINN
OWNER	CUSTOMER
CONTRACT	3142

SHEET L2
 M. H. O. - FILE

Line	Diaph A	B	C	D
S1	0°31'46"	1°31'59"	2°38'54"	3°35'51"
S2	0°32'02"	1°32'43"	2°40'11"	3°37'35"
S3	0°32'17"	1°33'28"	2°41'28"	3°39'20"
S4	0°32'33"	1°34'13"	2°42'47"	3°41'07"
S5	0°32'49"	1°35'00"	2°44'12"	3°42'56"
S6	0°33'05"	1°35'47"	2°45'29"	3°44'47"
S7	0°33'22"	1°36'35"	2°46'52"	3°46'39"
S8	0°33'36"	1°37'16"	2°48'02"	3°48'16"
S9	0°33'53"	1°38'06"	2°49'29"	3°50'14"
S10	0°34'11"	1°38'57"	2°50'57"	3°52'13"
S11	0°34'28"	1°39'48"	2°52'25"	3°54'12"
S12	0°34'46"	1°40'40"	2°53'55"	3°56'15"
S13	0°35'05"	1°41'33"	2°55'27"	3°58'19"
S14	0°35'23"	1°42'27"	2°57'00"	4°00'26"



APPROVAL IS SUBJECT TO CONTRACT REQUIREMENTS AND CHANGES INDICATED IN RED, IF ANY HEREIN.

APPROVED
STATE OF MINNESOTA
MAY 31 1966
DEPT. OF HIGHWAYS
A. E. B. BENT
BRIDGE ENGINEER



State Proj. 2763-9340B (TH 35W = 394)
Minn. Proj. No. I-G 35W-3C58112

ALLIED STRUCTURAL STEEL COMPANIES
CLAYTON BRIDGE CORP. - GARDNER STRUCTURAL STEEL CORP. - MIDLAND STRUCTURAL STEEL CORP.
ENGINEERS - FABRICATORS - ERECTORS OF BUILDINGS AND BRIDGES
80 NORTH WACKER DRIVE CHICAGO 6, ILLINOIS

DETAILS OF **Layout for Bent Stringers**
STRUCTURE **Bridge No. 9340**
LOCATION **Minneapolis, Minnesota**
OWNER **Minnesota State Hwy Dept.**
CUSTOMER **Minnesota State Hwy Dept.**

OPEN HOLE	RIVETS & BOLTS	PAINT
DRAWN BY J.W.	DATE 12/3/65	CHECKED BY GEW
REVISIONS	DATE	BY
△		
△		
△		
△		

CONTRACT **3142** M. H. D. - FILE **13**