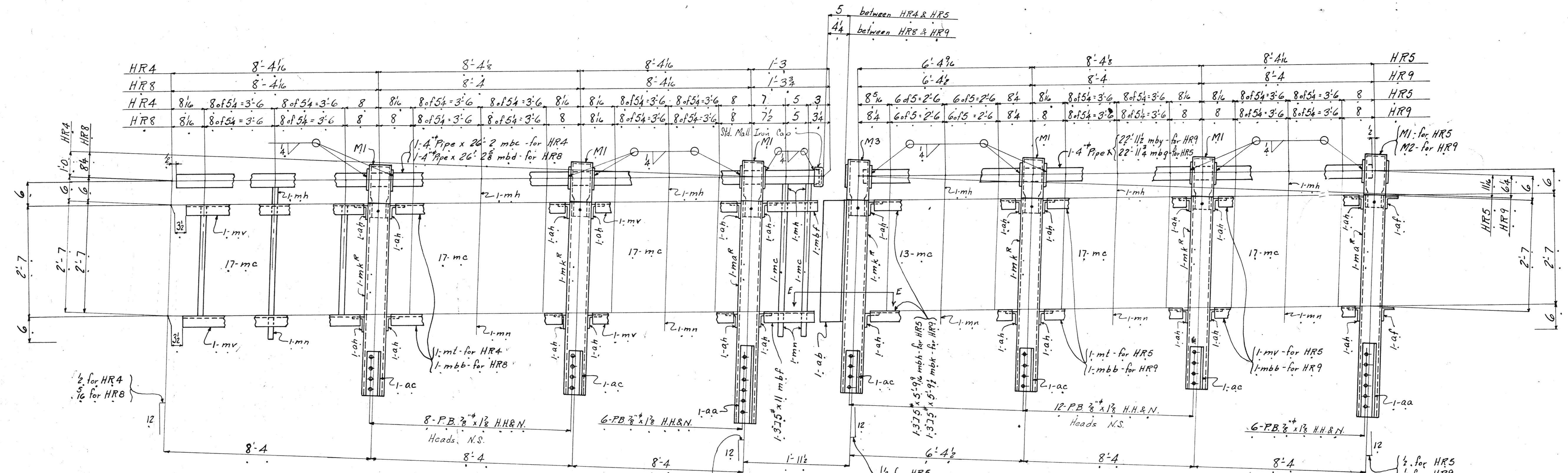
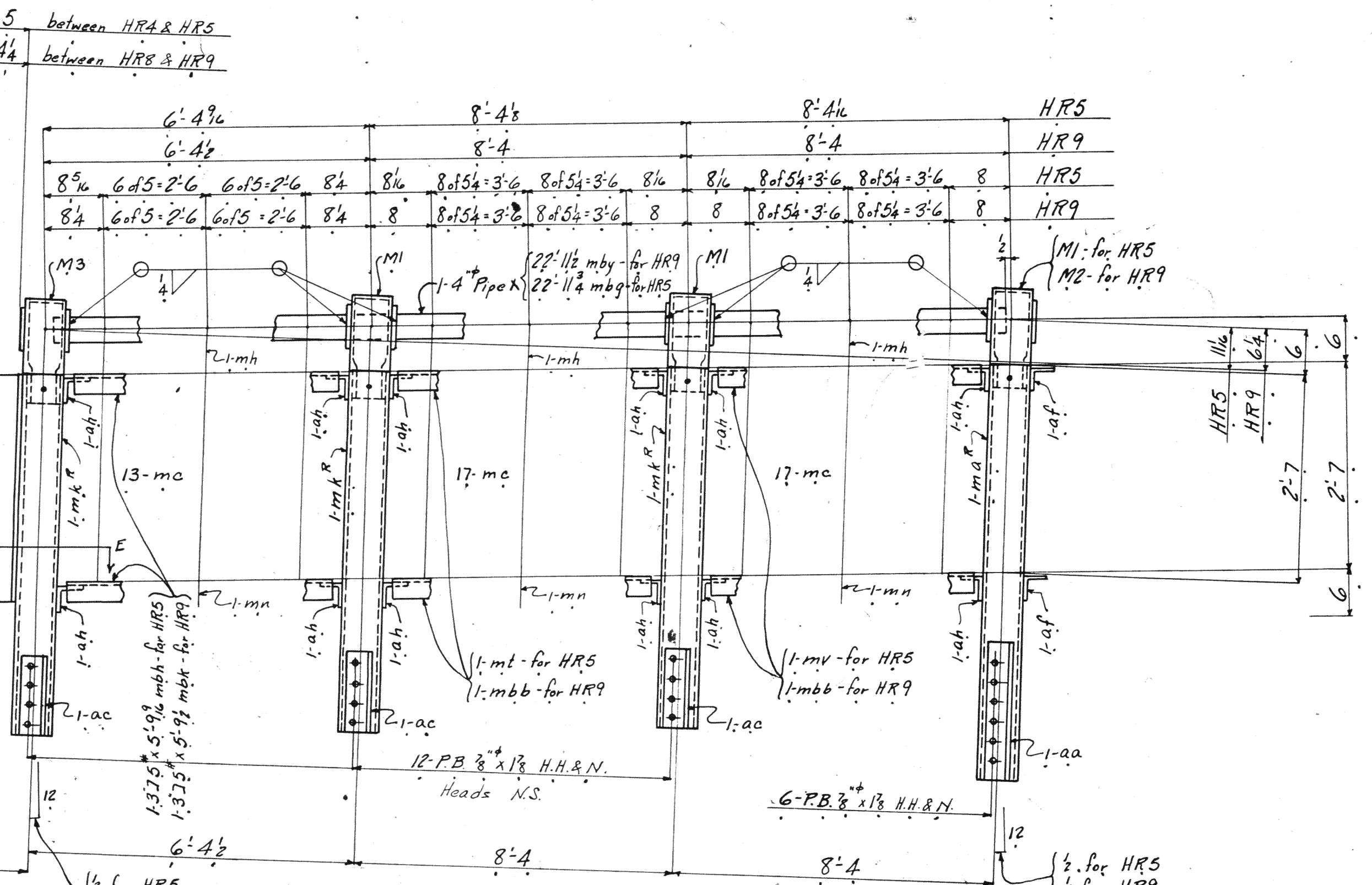


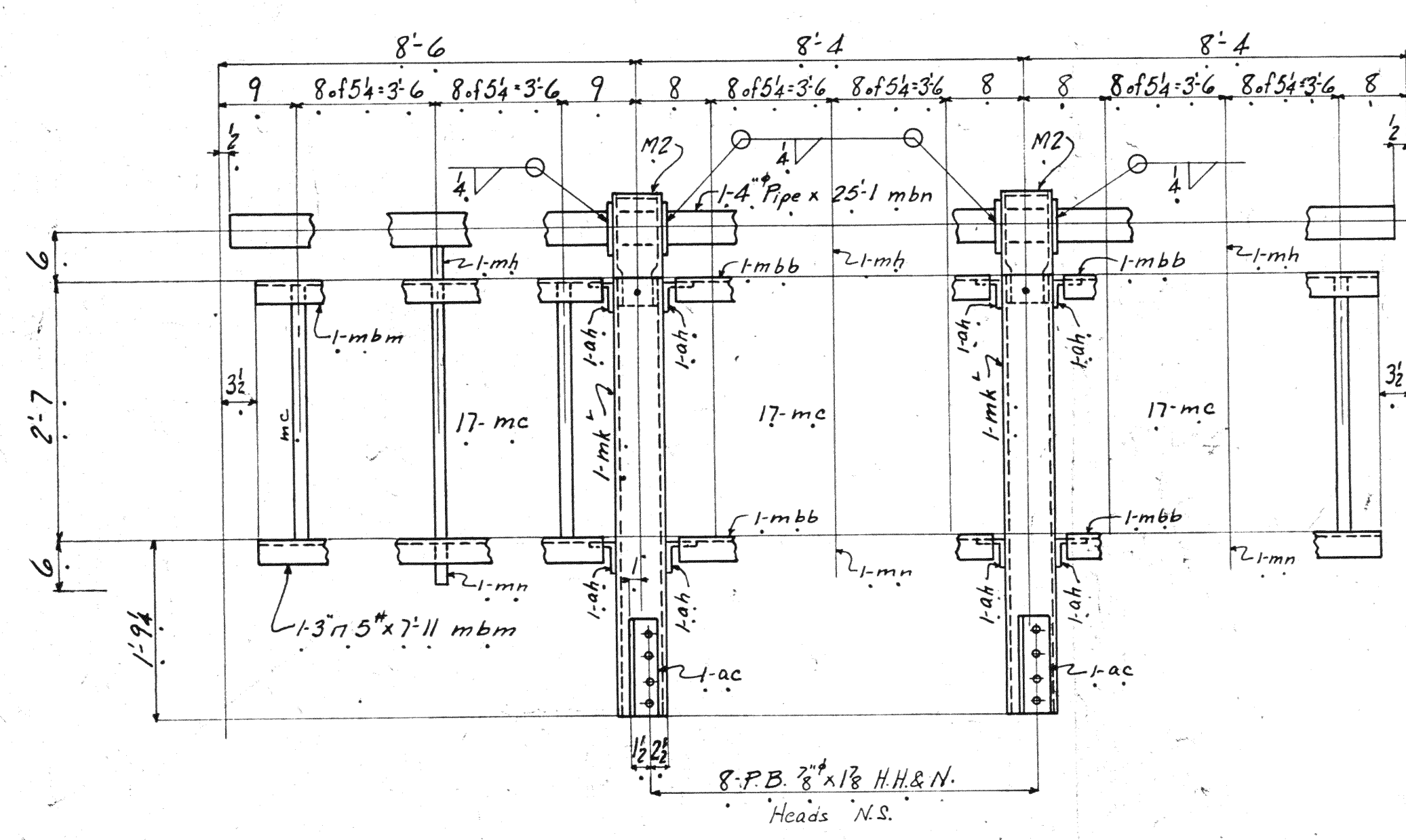
BOLTS		RIVETS		RIVETS		RIVETS		RIVETS		RIVETS	
Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.
Head	Head	Head	Head	Head	Head	Head	Head	Head	Head	Head	Head
Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.
Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.



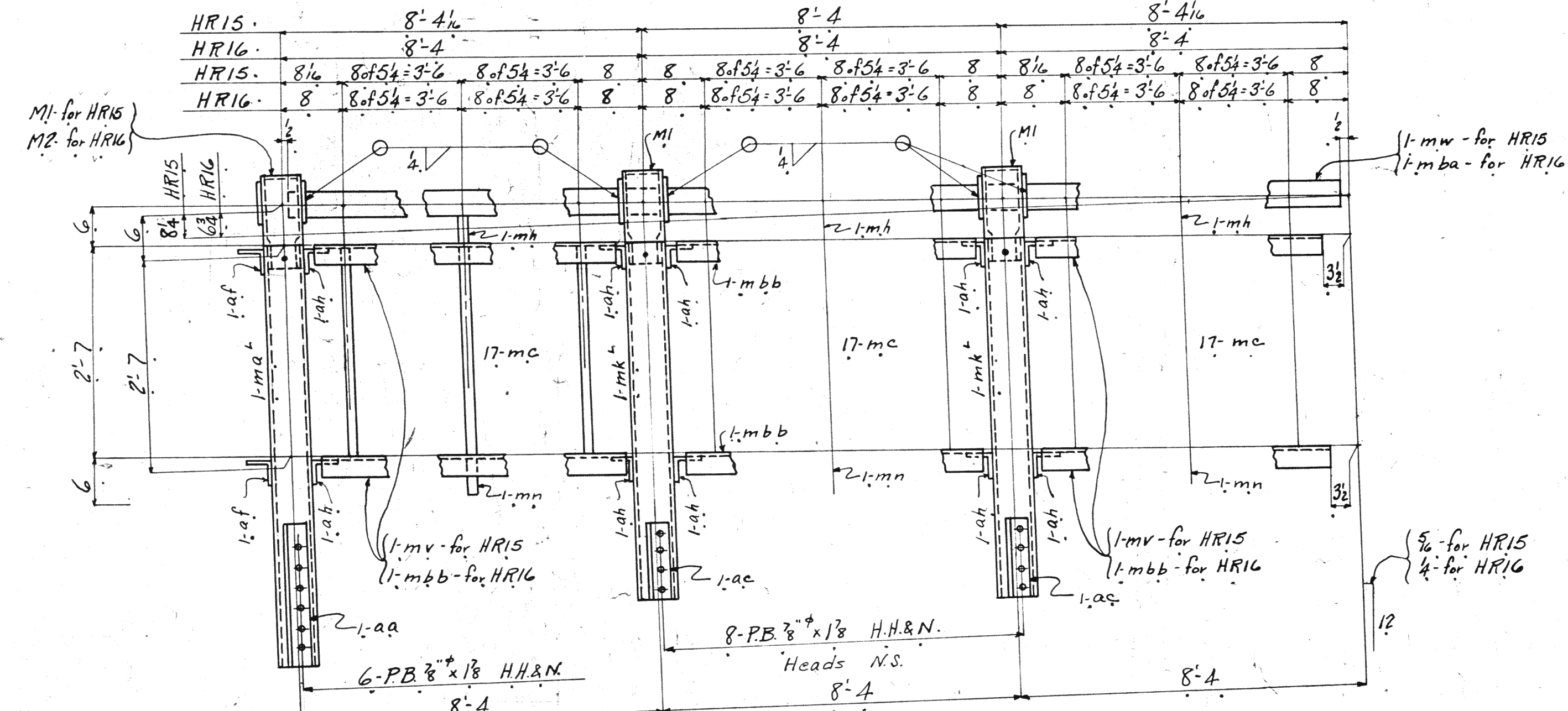
Railing - HR4 - HR8



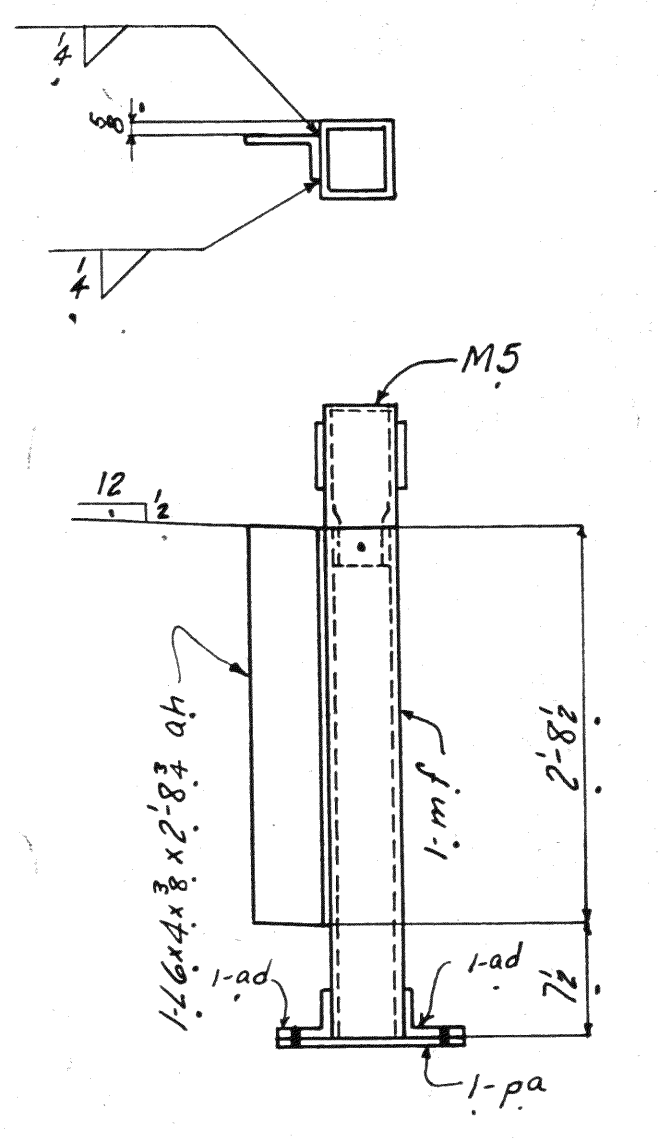
Railing - HR5 - HR9



Railing - HR14

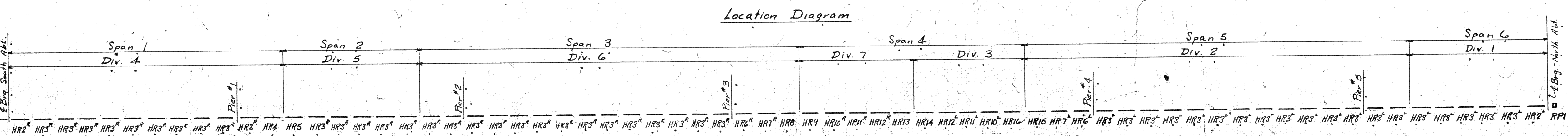


Railing - HR15 - HR16



Rail Post - RPI

Div.	2	3	4	5	6	7	Total No.	REQUIRED Description	Mark
Span 6	5	4	1	2	3	4	19	1. Hand Rail	HR1
							1	do.	HR2
							1	do.	HR3
							1	do.	HR4
							1	do.	HR5
							1	do.	HR6
							1	do.	HR7
							1	do.	HR8
							1	do.	HR9
							1	do.	HR10
							1	do.	HR11
							1	do.	HR12
							1	do.	HR13
							1	do.	HR14
							1	do.	HR15
							1	do.	HR16
							1	Rail Post	RPI



Location Diagram

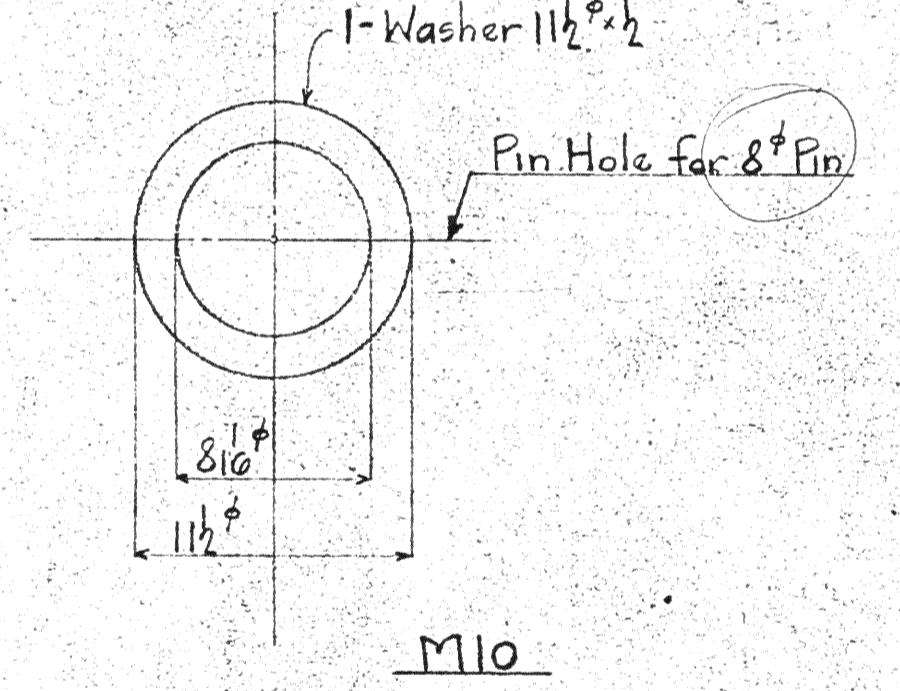
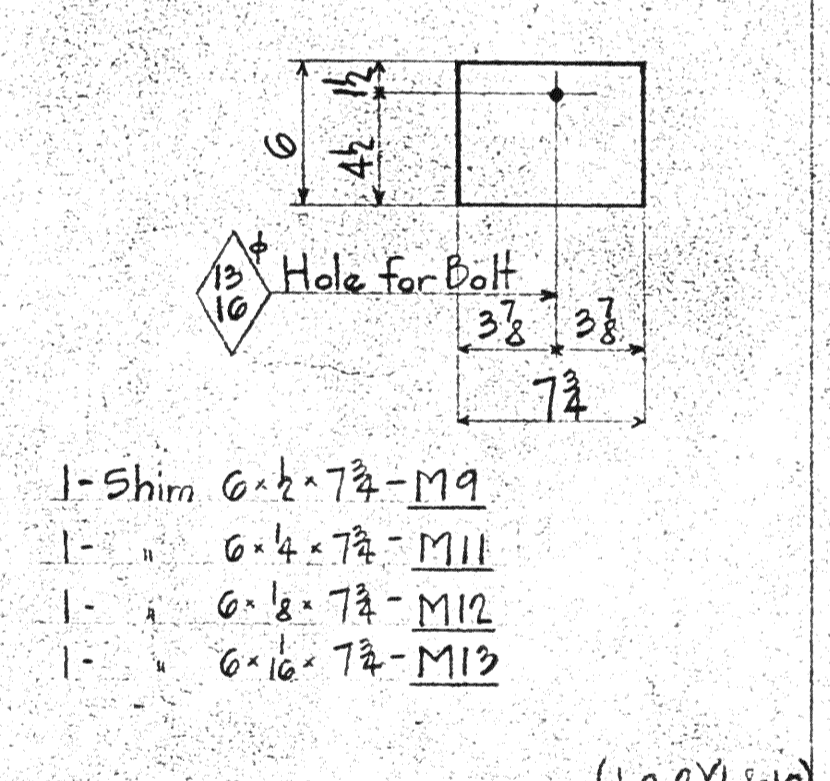
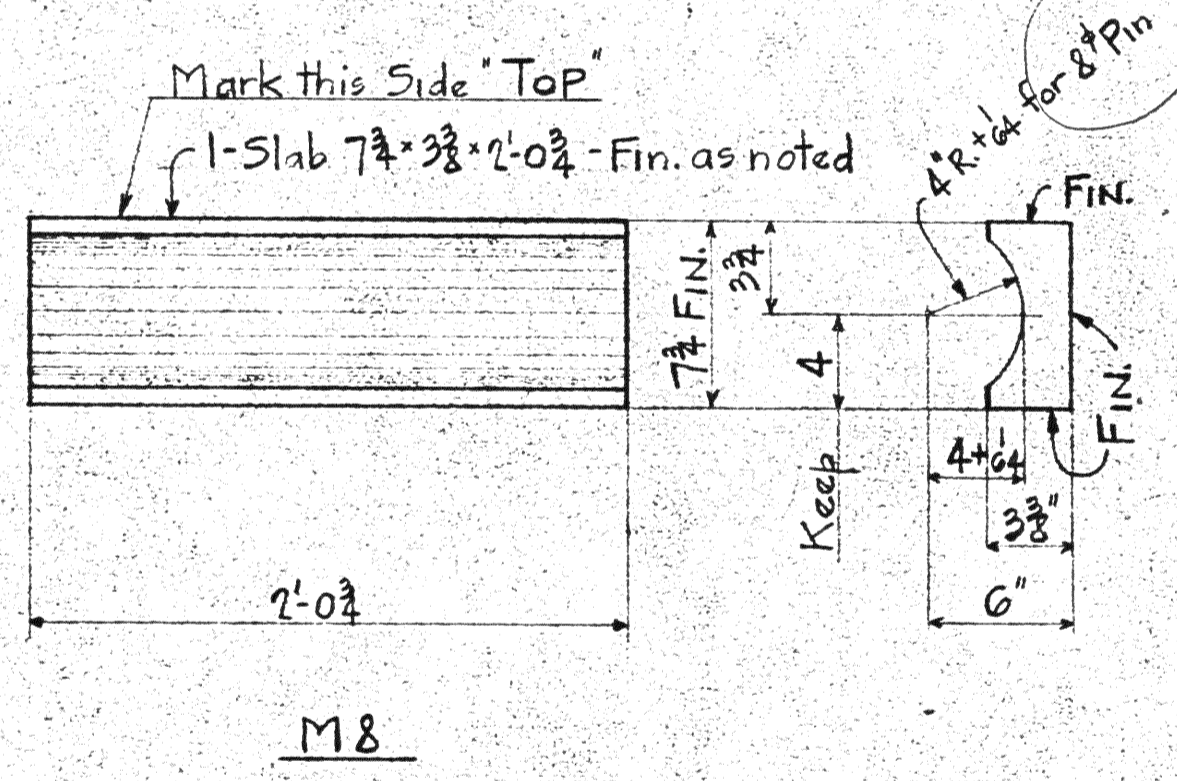
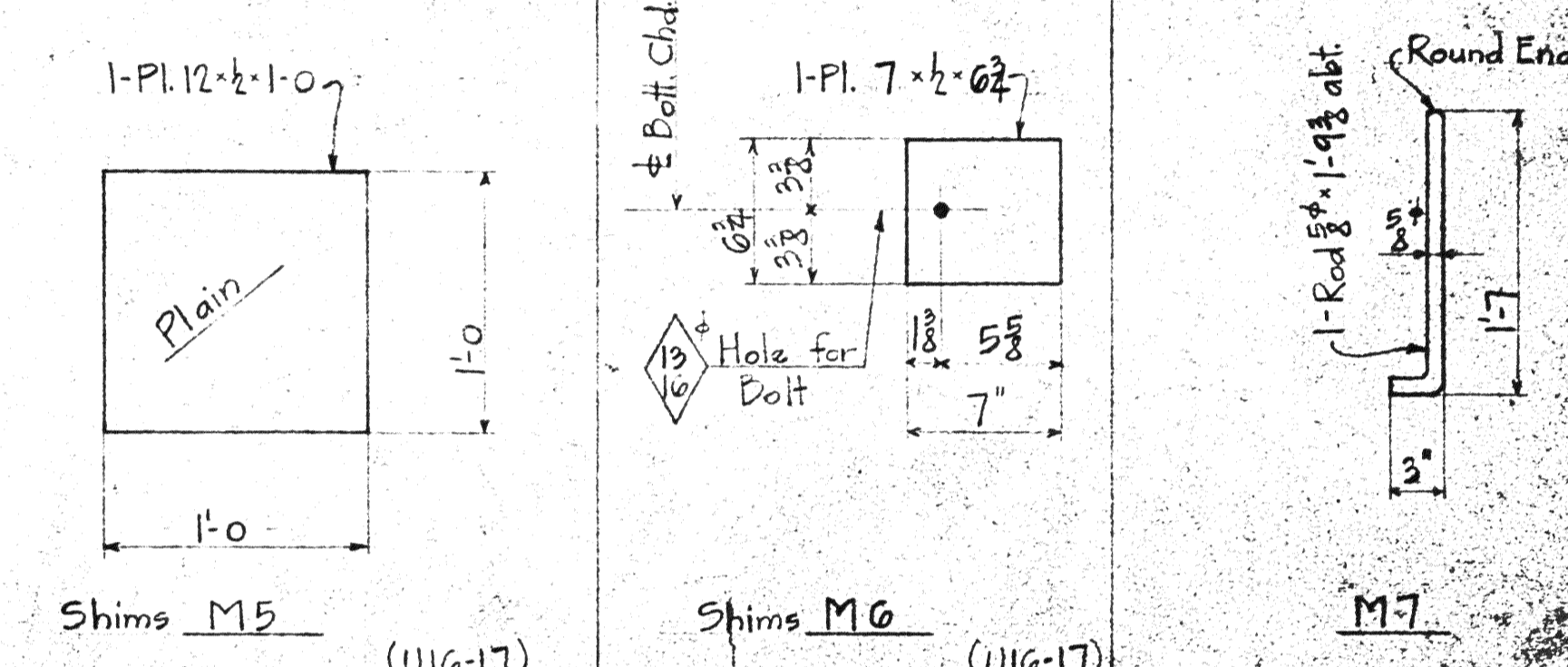
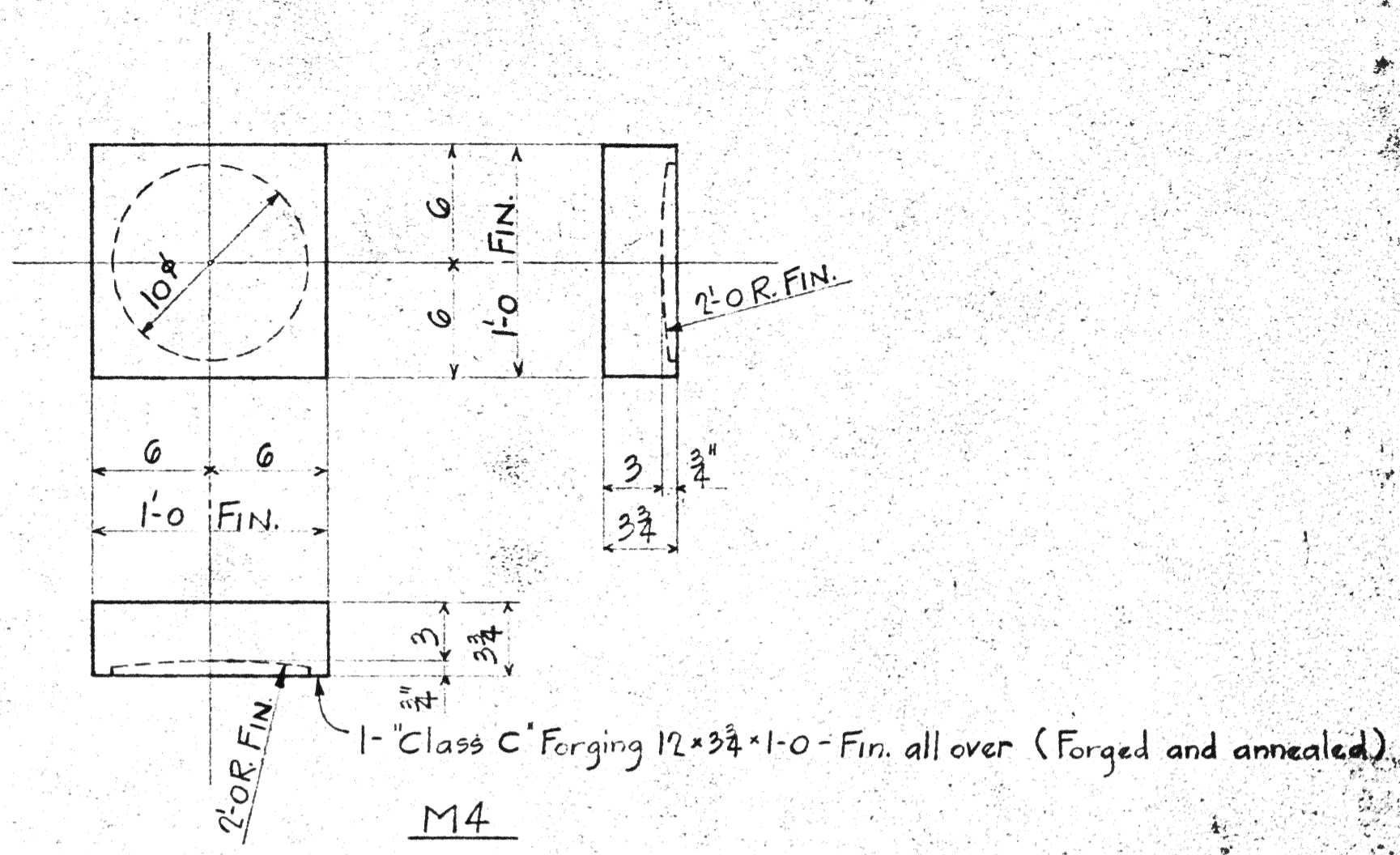
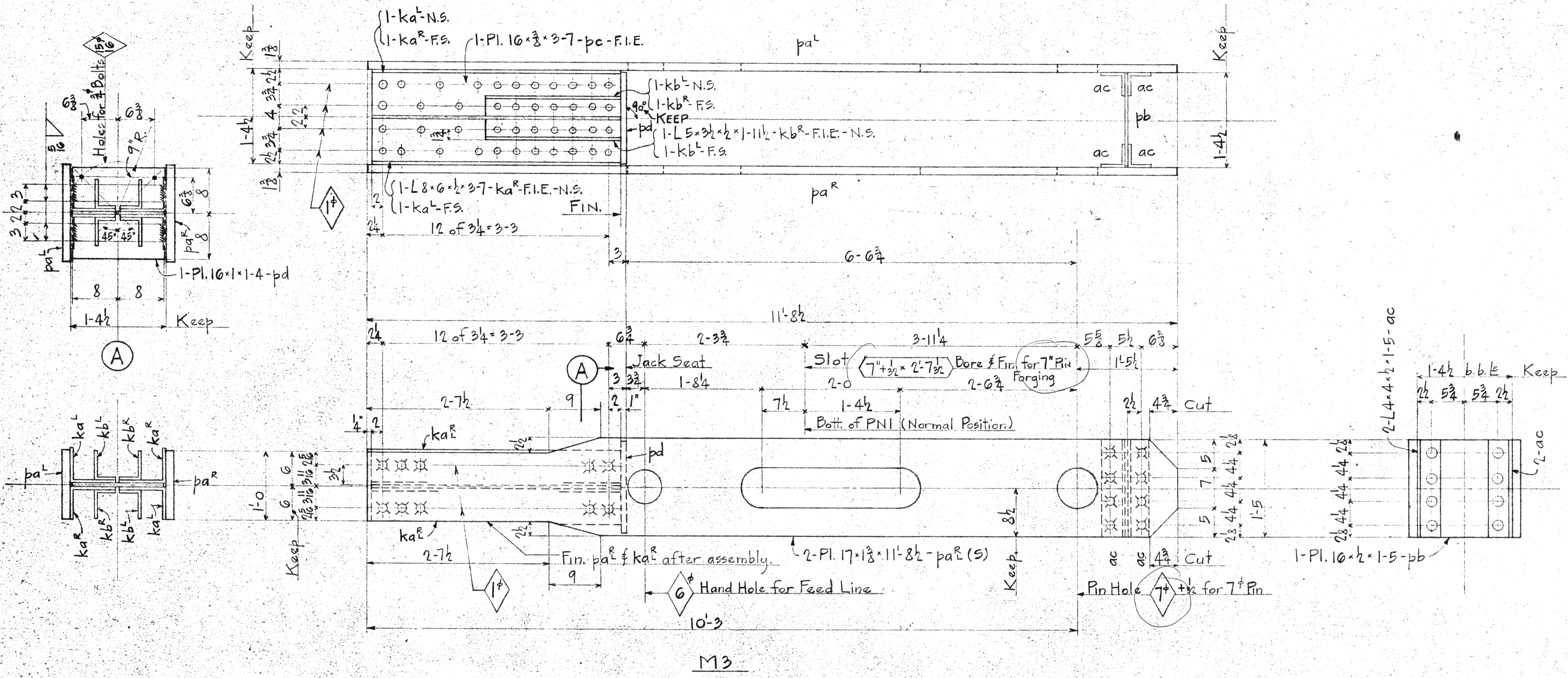
Note: All material to be benzodized except mill iron railing caps M1 to M5

MATERIAL: O.H. Steel A.S.T.M. A7-36
 Copper bearing 0.20 min. copper content
 SPECIFICATIONS: Special by Wilbur Watson & Associates also Ohio State Highway
 INSPECTION: James H. Herron Co.
 ERECTION: A.B.Co.
 Bolts: 8, unless noted
 OPEN HOLES: 1/2" unless noted

Lorain County, Ohio
EAST 21st STREET BRIDGE
 Lorain, Ohio
 D53-VG-9-38
AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT Amb PLANT.
 WORK FABRICATED AT _____ PLANT.
 IN CHARGE OF Leughman #2
 DRAW. MADE BY A.B. DATE 6-6-39
 DRAW. CHECKED BY MB DATE 6-22-39
 Revised: 7-17-39
ORDER NO.
H2526 SHEET NO. **1-B**

PAINT: Yes.
 CONTACT SURFACES: Yes

REQ. 19284



Note to Shop:-
 All shims to be flat. All sharp edges of shims are to be removed.
 Pieces M3 to M7 incl. are to be shop assembled with Top Chd. Sections U16-17, 5W #5E det. on Sh. 253, H2524. See Sh. E2 for assembly.

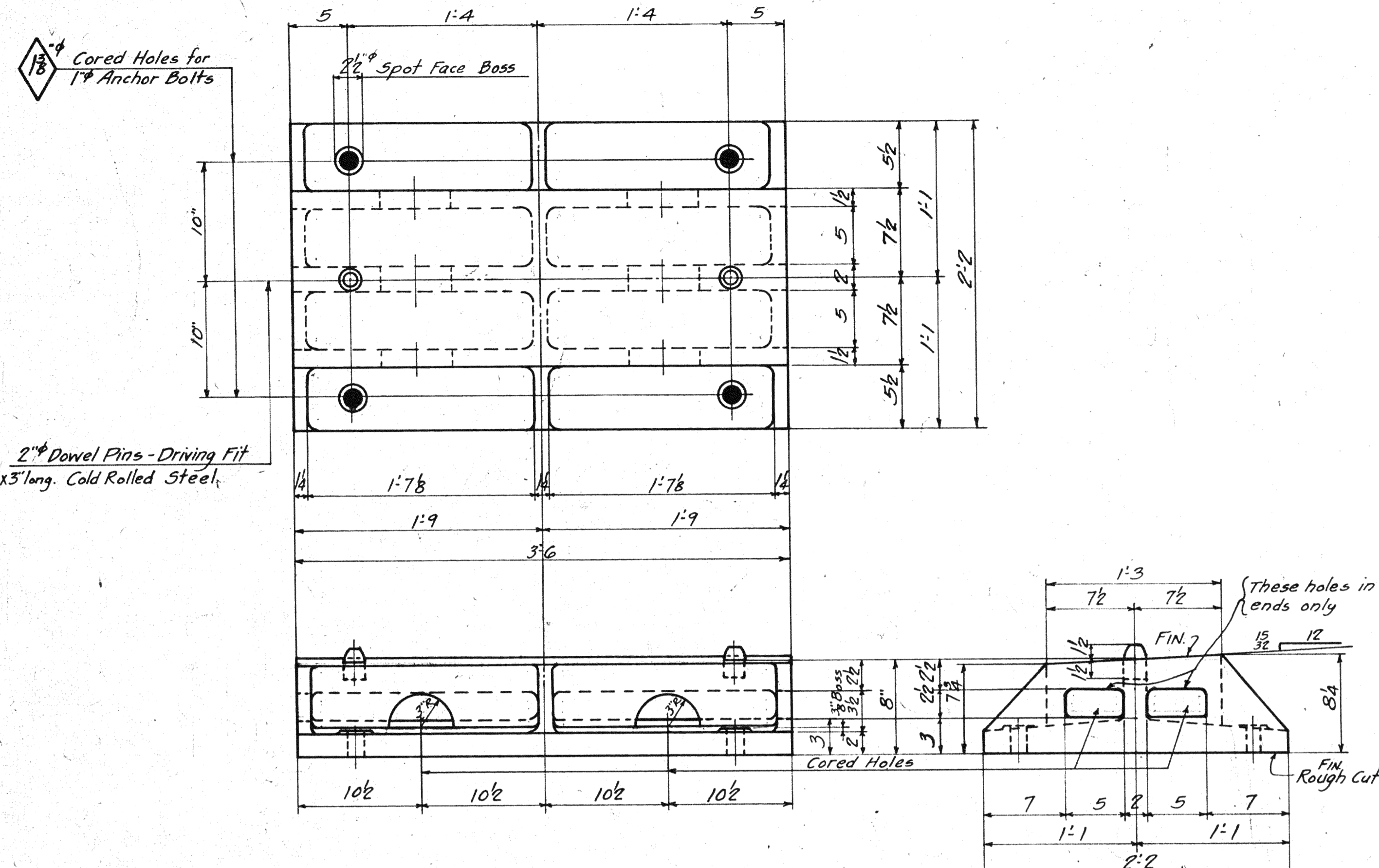
SPAN	4		5	REQUIRED		
	7	3	2	Total	Description	Mark
			2	2	Erection Link	M3
			2	2	Jack Cap	M4
			44	44	Shim	M5
			96	96	"	M6
			4	4	Bolt	M7
2	2		4	4	Jacking Slab	M8
80	80		100	100	Shim	M9
4	4		8	8	Washer	M10
4	4		8	8	Shim	M11
4	4		8	8	"	M12
4	4		8	8	"	M13

LORAIN COUNTY, OHIO
 EAST 21ST STREET BRIDGE
 LORAIN, OHIO

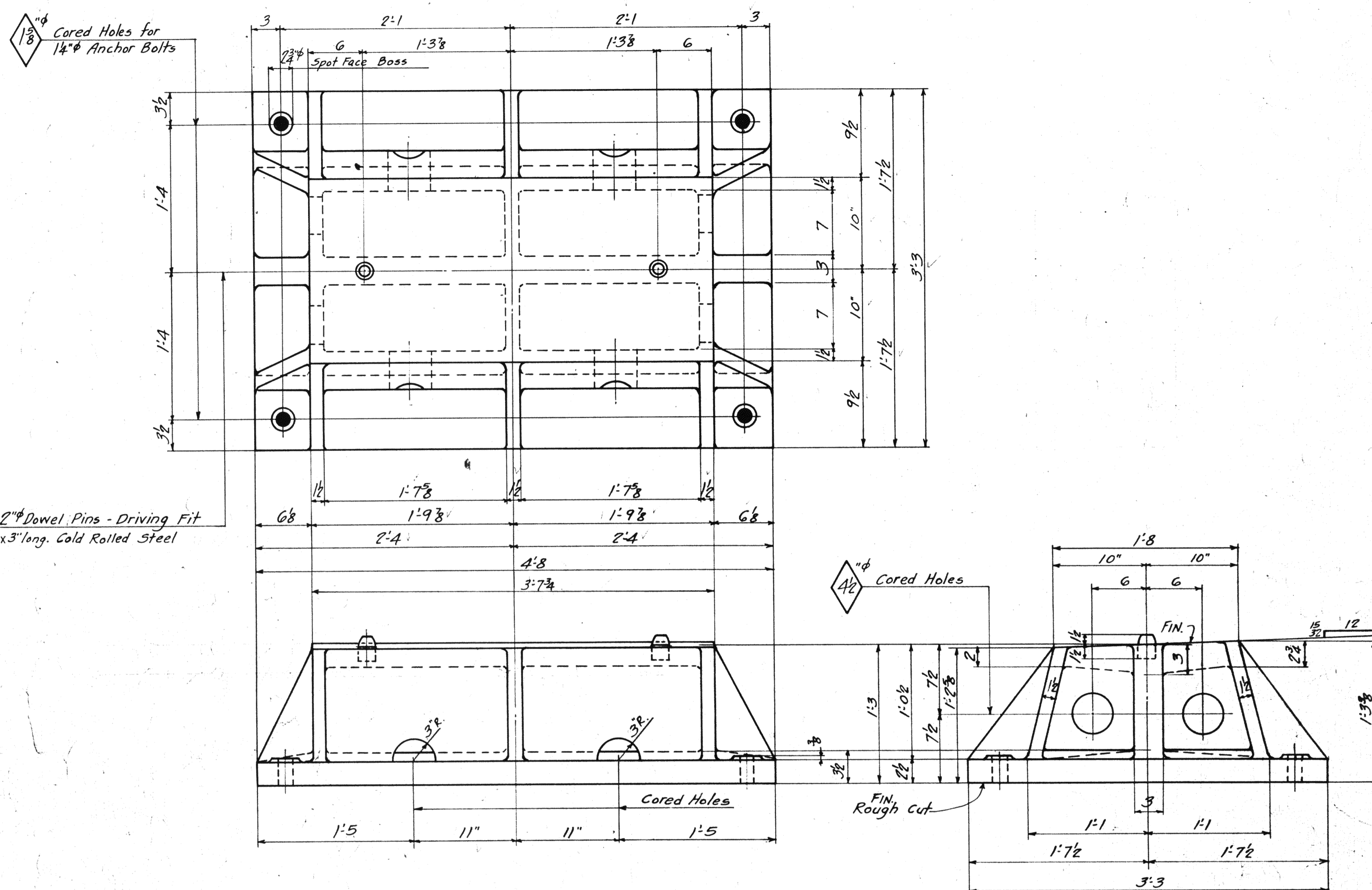
AMERICAN BRIDGE COMPANY
 DRAWINGS MADE AT
 WORK FABRICATED AT
 IN CHARGE OF
 DRAW MADE BY
 DRAW CHECKED BY

Mat'l: C.H. Steel A.S.T.M. A7-36
 Rivets: 3/8" Unless Noted
 Open Holes: As Noted
 Holes in material more than 3/8" thick shall be drilled.

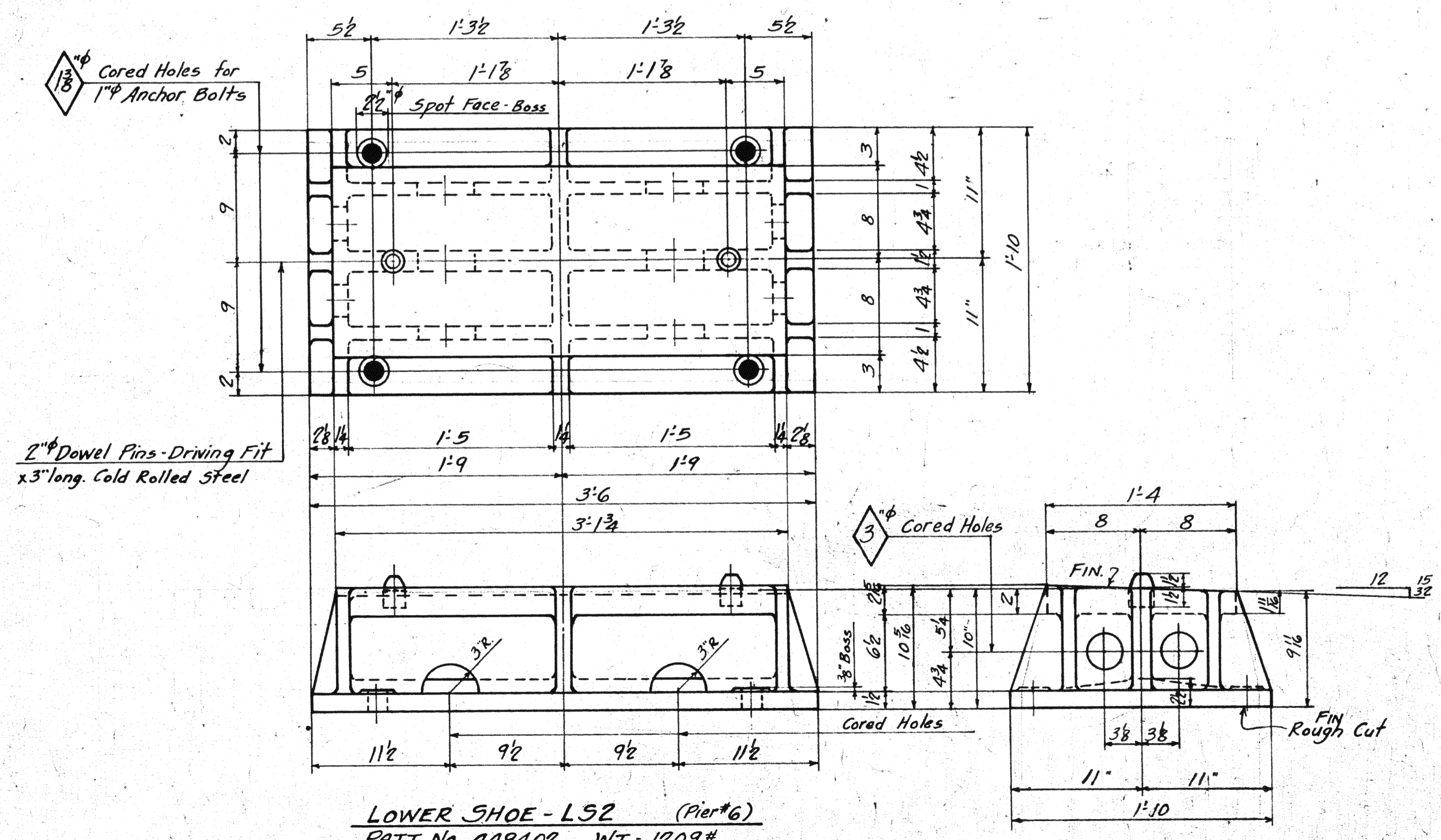
PAINT: No CONTACT SURFACES: No
 Adv. Bill: Pgs. 1-3



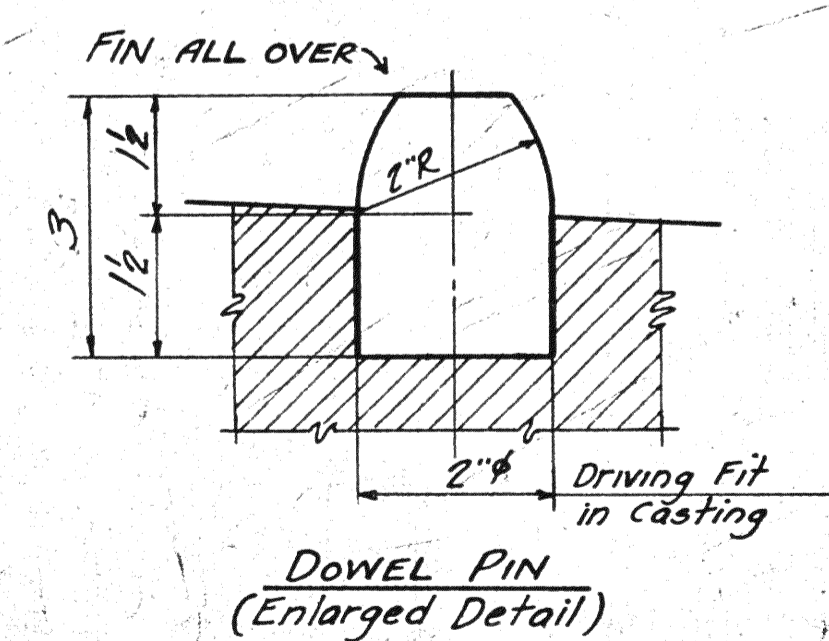
LOWER SHOE - LS1 (Pier #0)
PATT. No. AA 9401^A WT. = 1620 #



LOWER SHOE - LS3 (Piers 2 & 5)
PATT. No. AA 9403^A WT. = 3848 #



LOWER SHOE - LS2 (Pier #6)
PATT. No. AA 9402 WT. = 1209 #



Req # C.S. 5418

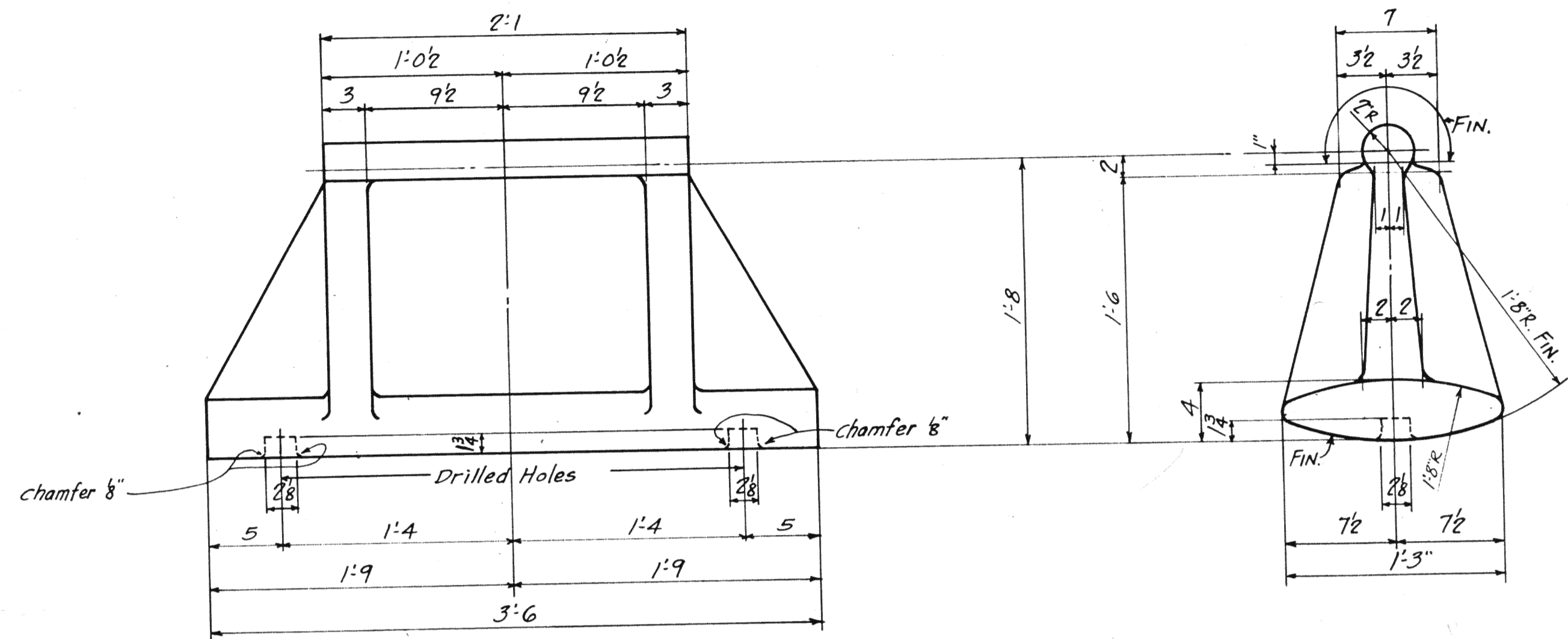
DIV. 6	DIV. 4	DIV. 2	DIV. 1	TOTAL NO.	REQUIRED DESCRIPTION	MARK
SPAN #3	#1	#5	#6	?	Lower Shoe	LS1
				?	"	LS2
2	2		4		"	LS3

Lorain County, Ohio
EAST 21st STREET BRIDGE
Lorain, Ohio

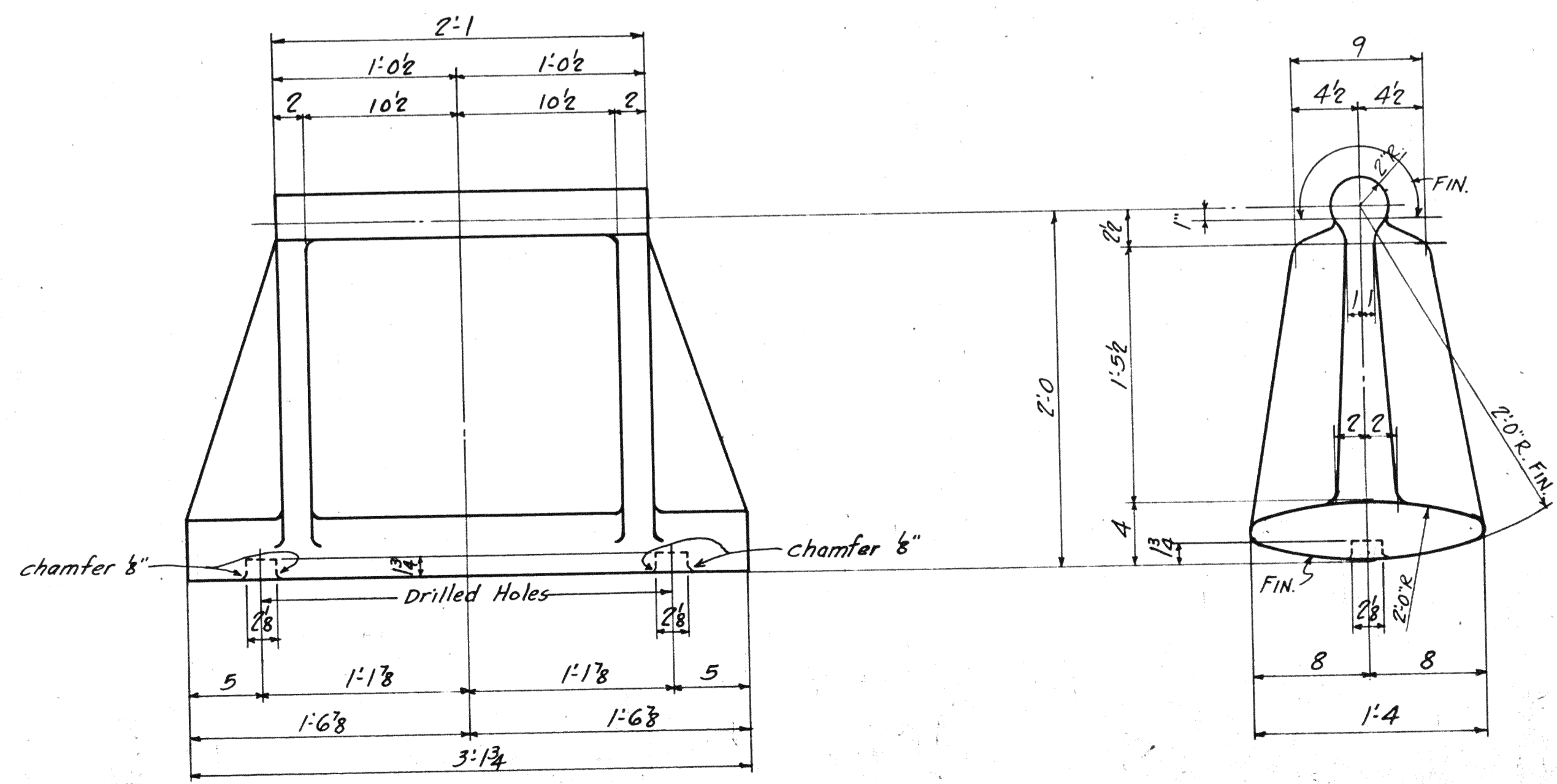
AMERICAN BRIDGE COMPANY.

DRAWINGS MADE AT *Ambridge* PLANT
WORK FABRICATED AT *Ambridge* PLANT
IN CHARGE OF *Loughman* D.R.#2
DRAW. MADE BY *ALH* DATE 5-15
DRAW. CHECKED BY *...* DATE
INSPECTION: *James H. Herron Co.*
All Fillets - *1" Radius*
PAINT: *Yes*
FINISH SURFACES: *One Coat of White Lead & Tallow.*
ORDER NO. *H2524* SHEET NO. *101*

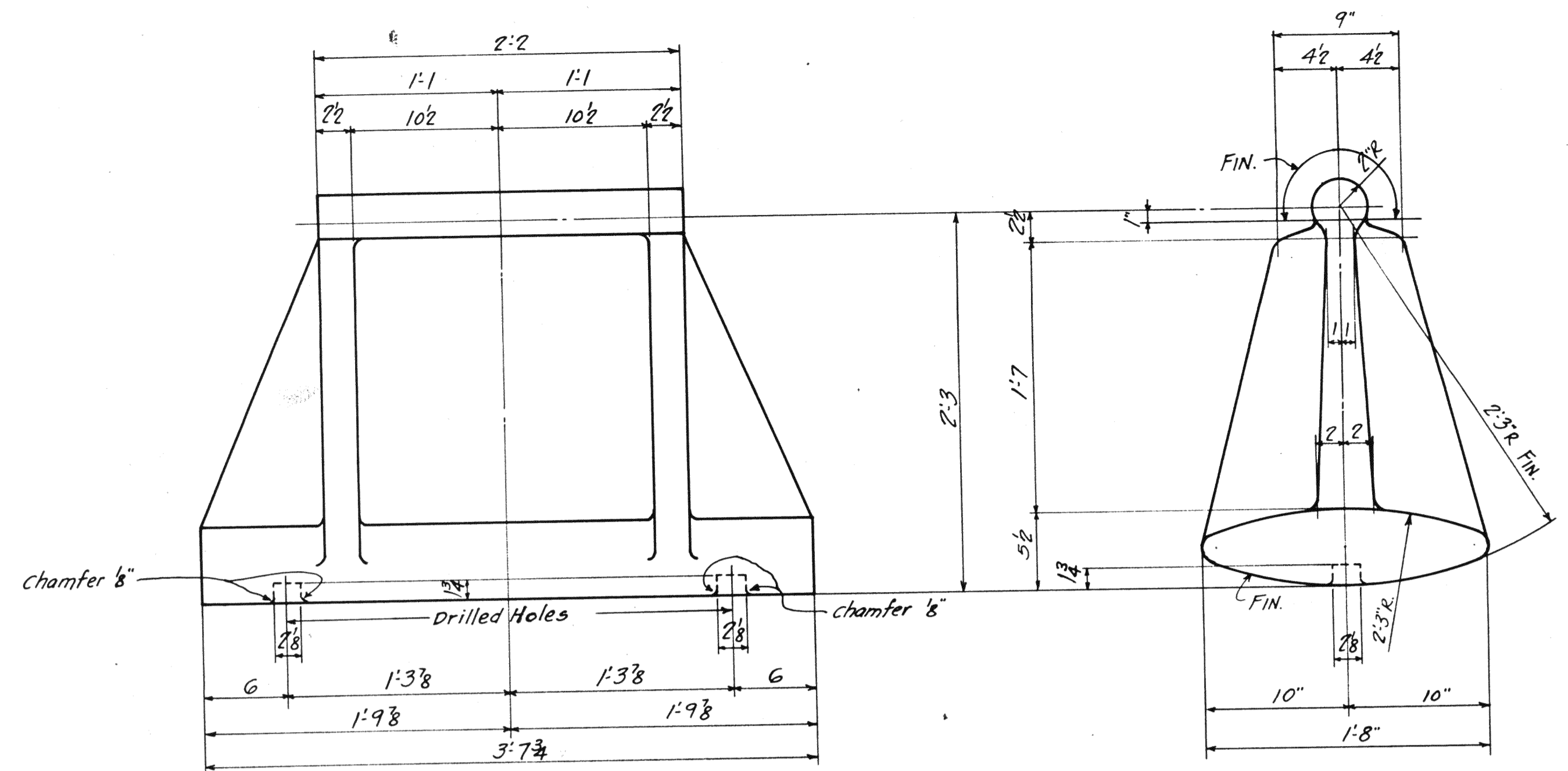
BOLTS		NUTS		HEADS		GRIPS		DRILLS		NO. REQ'D		DIA.		GRIP		DIA.		GRIP	
BOLTS		NUTS		HEADS		GRIPS		DRILLS		NO. REQ'D		DIA.		GRIP		DIA.		GRIP	
RIVETS		DIA.		GRIP		DIA.		GRIP		DIA.		GRIP		DIA.		GRIP		DIA.	
RIVETS		DIA.		GRIP		DIA.		GRIP		DIA.		GRIP		DIA.		GRIP		DIA.	
RIVETS		DIA.		GRIP		DIA.		GRIP		DIA.		GRIP		DIA.		GRIP		DIA.	
RIVETS		DIA.		GRIP		DIA.		GRIP		DIA.		GRIP		DIA.		GRIP		DIA.	
RIVETS		DIA.		GRIP		DIA.		GRIP		DIA.		GRIP		DIA.		GRIP		DIA.	
RIVETS		DIA.		GRIP		DIA.		GRIP		DIA.		GRIP		DIA.		GRIP		DIA.	
RIVETS		DIA.		GRIP		DIA.		GRIP		DIA.		GRIP		DIA.		GRIP		DIA.	
RIVETS		DIA.		GRIP		DIA.		GRIP		DIA.		GRIP		DIA.		GRIP		DIA.	



ROCKER SHOE - RS1 (Pier #0)
PATT. No. AA9404^A WT. = 1245#



ROCKER SHOE - RS2 (Pier #6)
PATT. No. AA9405^A WT. = 1410#



ROCKER SHOE - RS3 (Piers 2 & 5)
PATT. No. AA9406^A WT. = 2200#

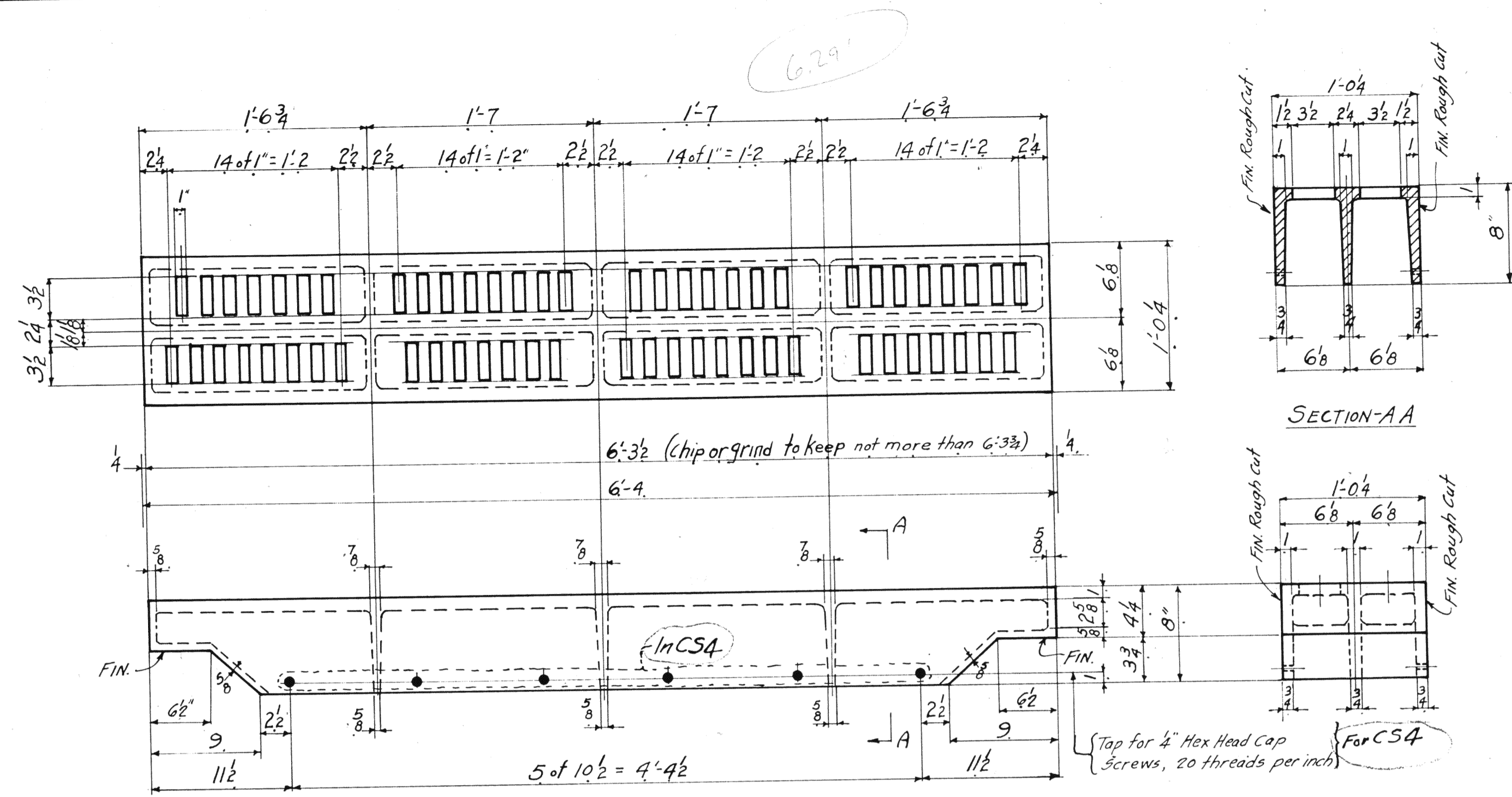
Req. C.S. 5418

DIV. 0		DIV. 1		TOTAL		REQUIRED	
SPAN #	#	#	#	#	#	DESCRIPTION	MARK
2	2	2	2	2	2	Rocker shoe	RS1
						" "	RS2
2	2	4	4	4	4	" "	RS3

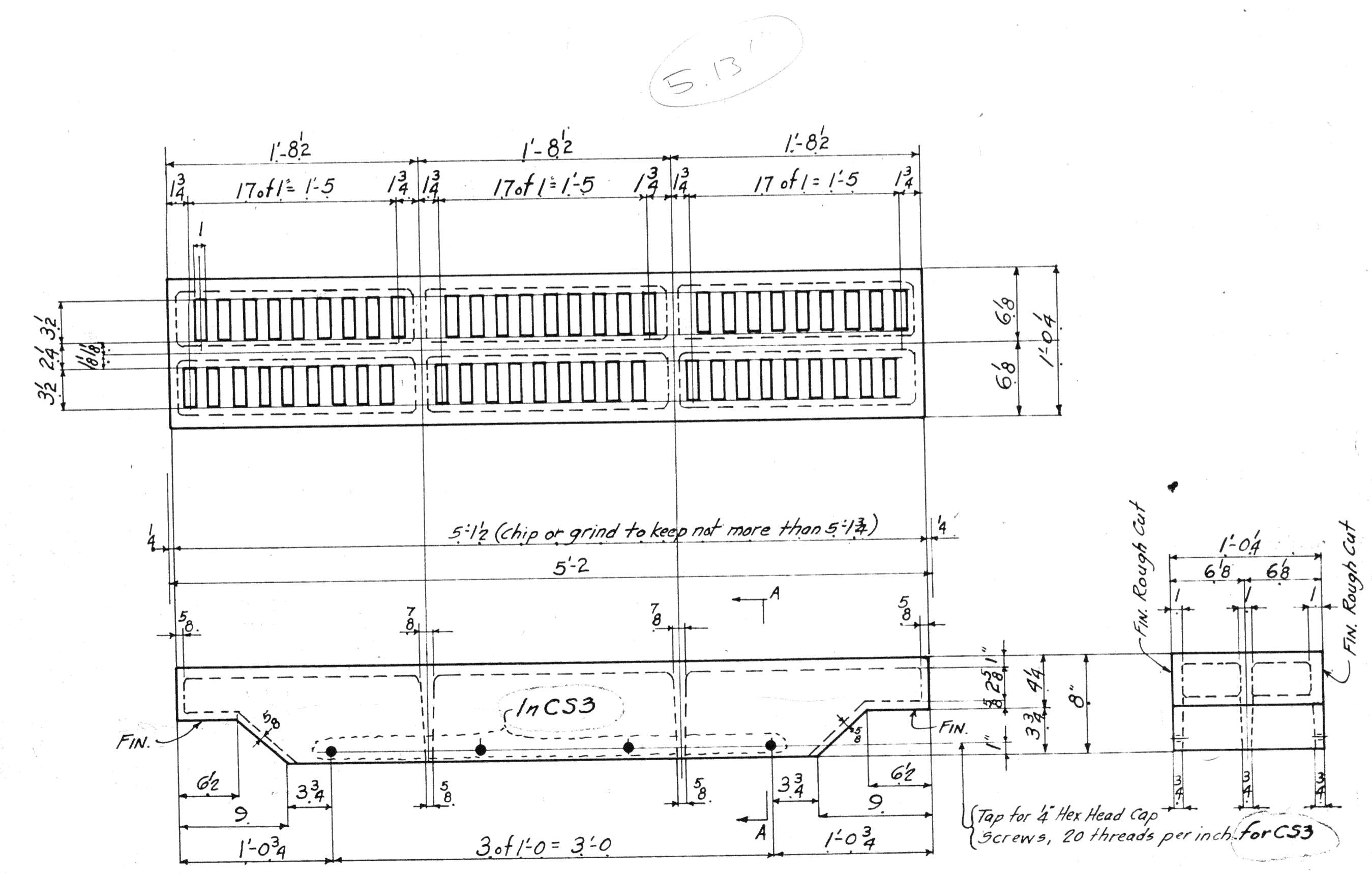
MATERIAL: Cast Steel Annealed
A.S.T.M. - A27-24, class B, Medium
SPECIFICATIONS: Ohio State Highway
INSPECTION: James H. Herron Co.
All Fillets - 1" Radius
PAINT: Yes
FINISHED SURFACES: One coat of White Lead & Tallow.

AMERICAN BRIDGE COMPANY.
DRAWINGS MADE AT Ambridge PLANT.
WORK FABRICATED AT Ambridge PLANT.
IN CHARGE OF Loughman D.I. #2
DRAW. MADE BY ALH DATE 5-15-19
DRAW. CHECKED BY _____ DATE _____
ORDER No. H252A SHEET No. 102

Lorain County, Ohio
EAST 21st STREET BRIDGE
Lorain, Ohio



DRAIN CASTING - CSI
DRAIN CASTING - CS4
 PATT. No. AA 9409^A WT. = 700#



DRAIN CASTING - CS2
DRAIN CASTING - CS3
 PATT. No. AA 9410^A WT. = 555#

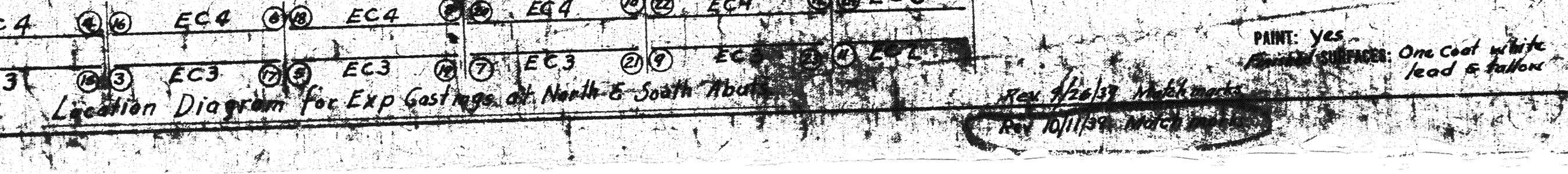
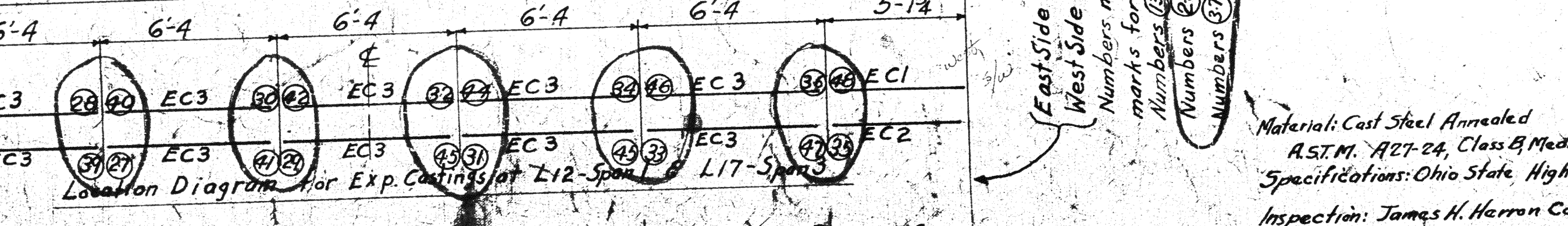
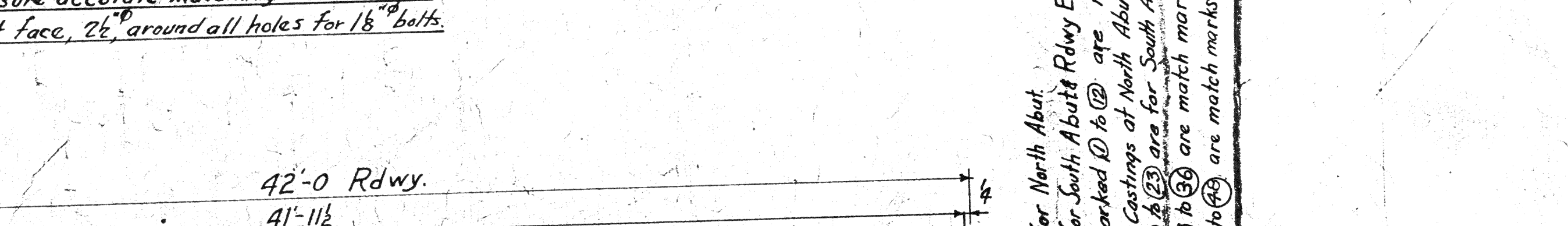
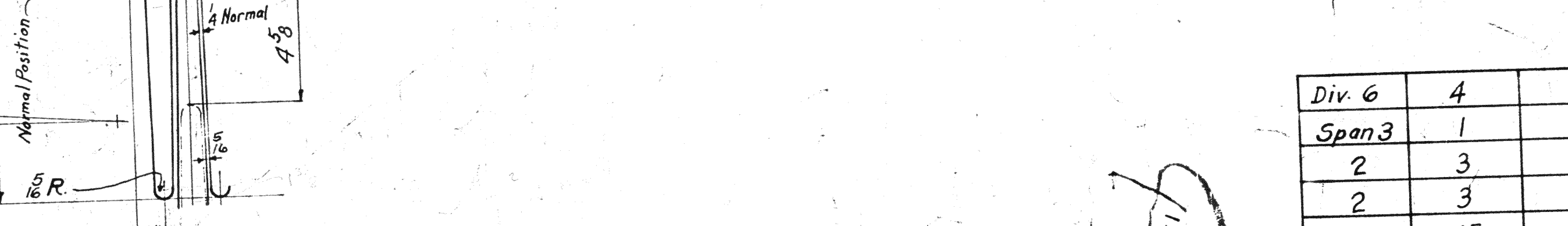
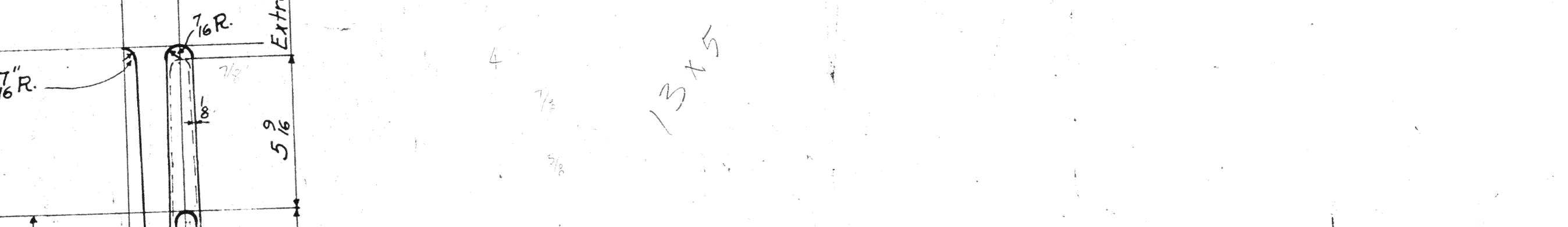
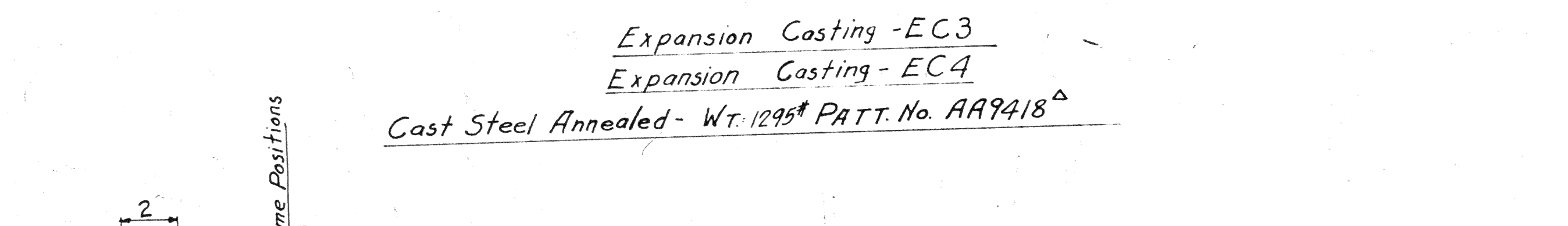
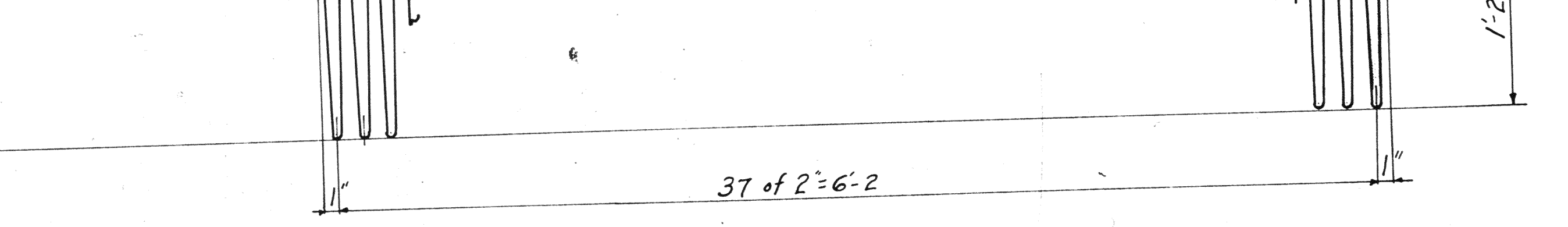
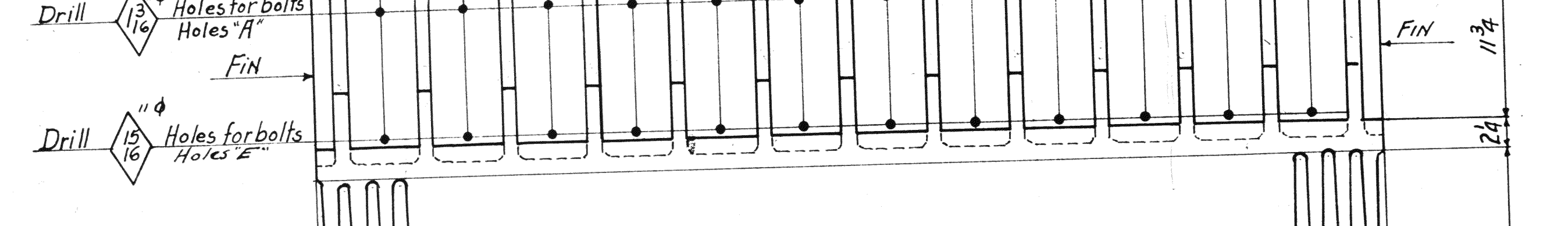
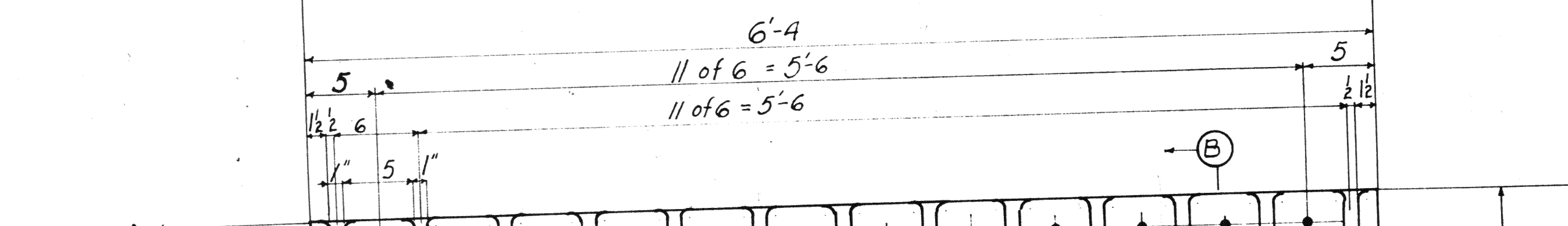
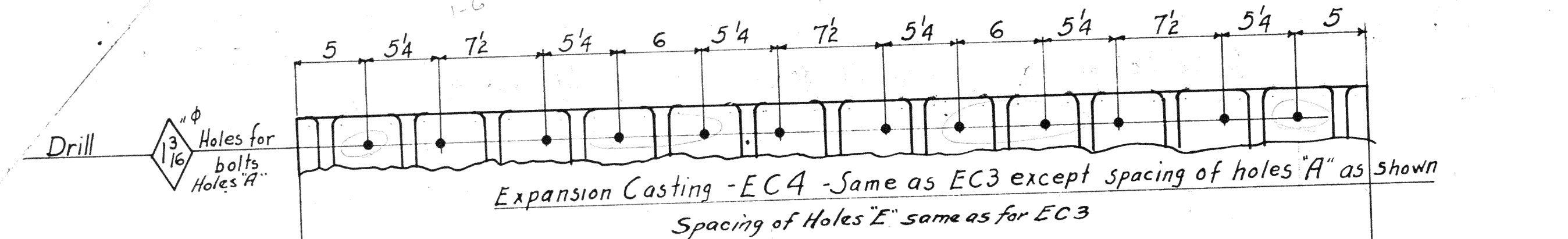
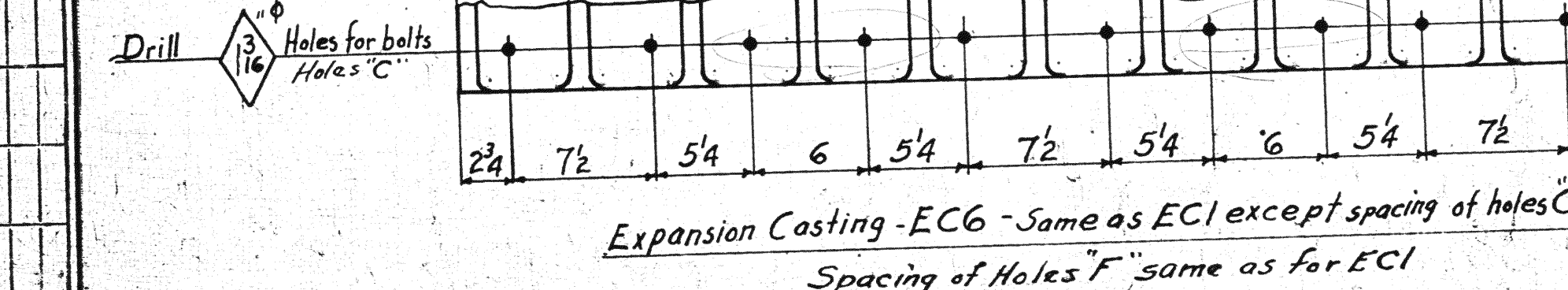
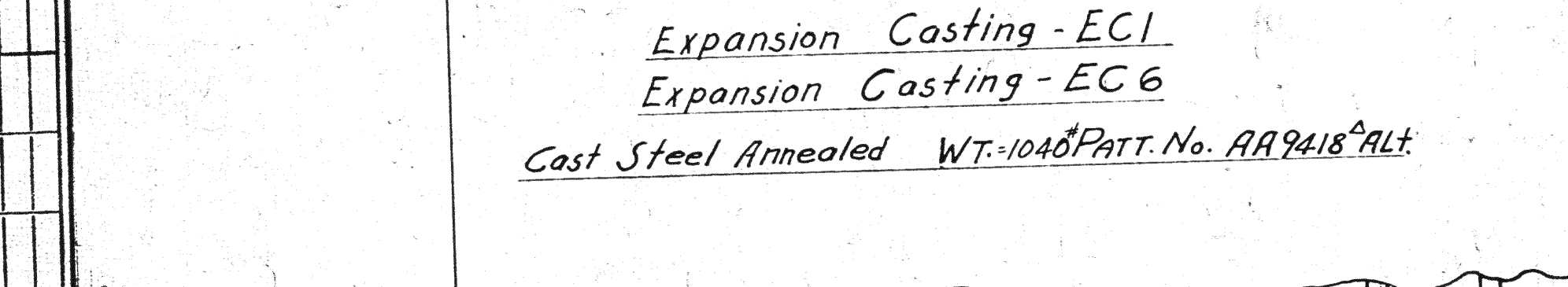
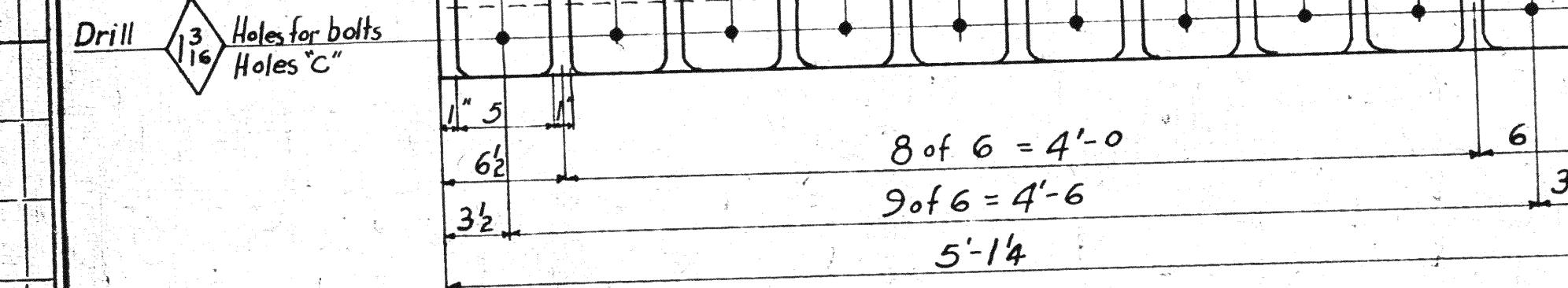
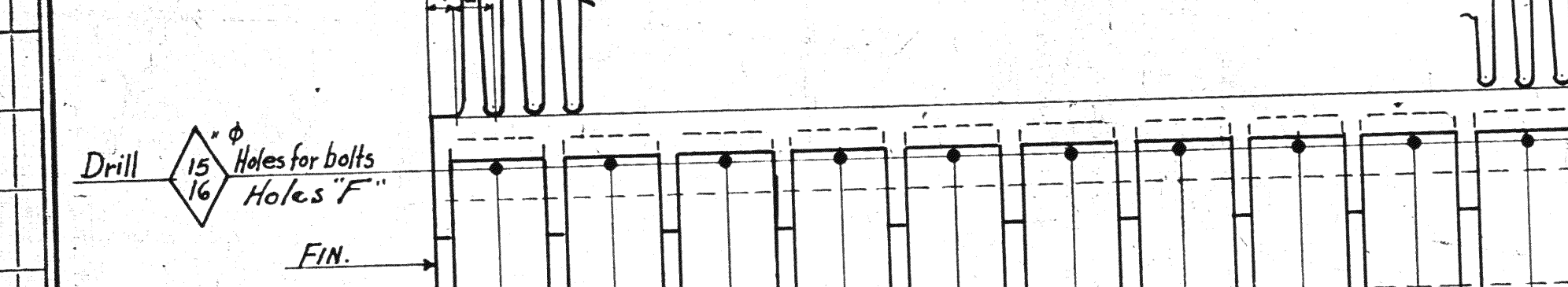
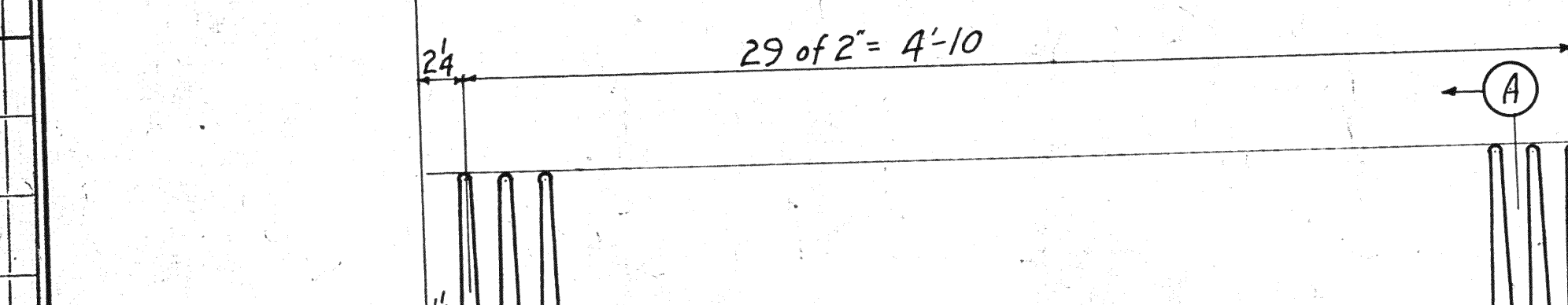
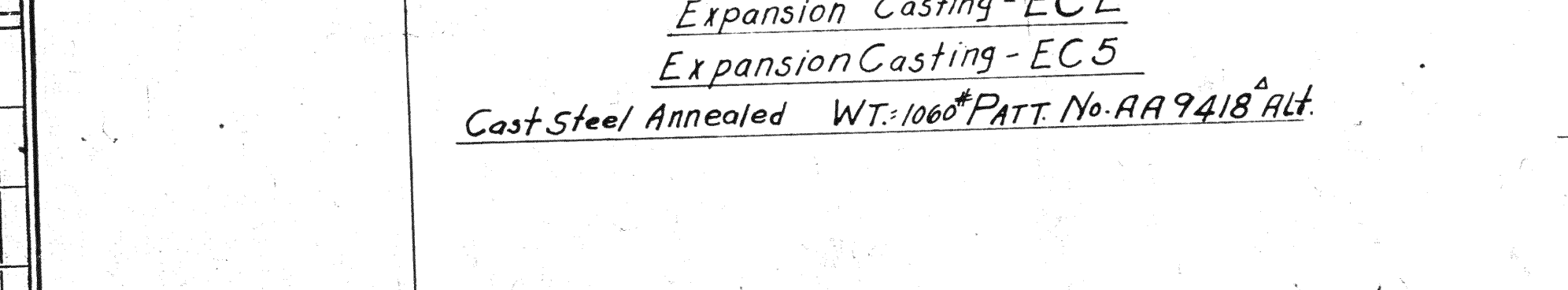
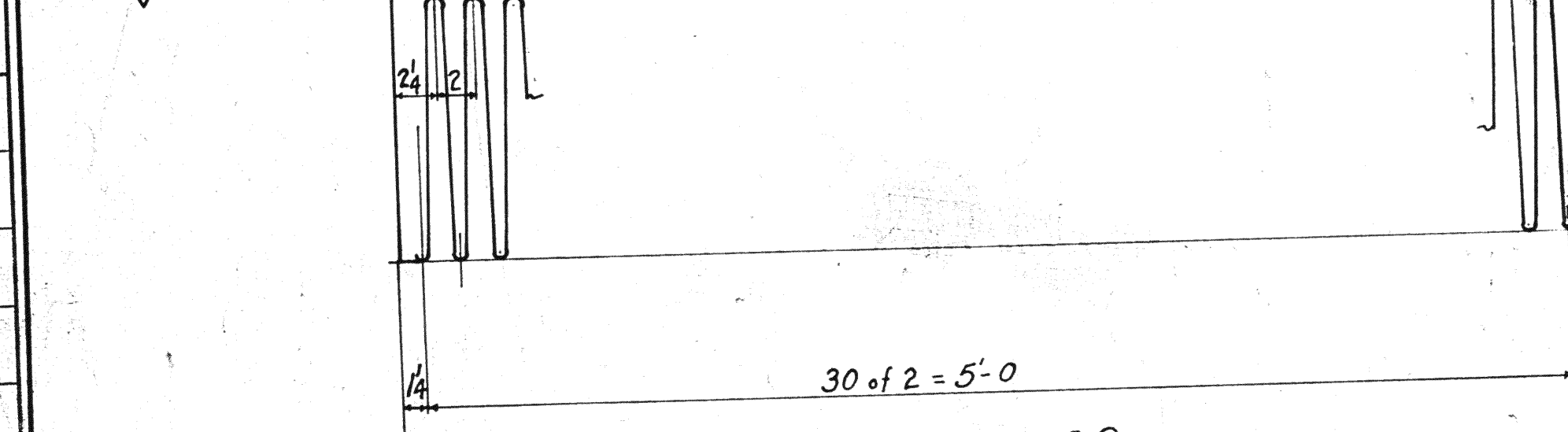
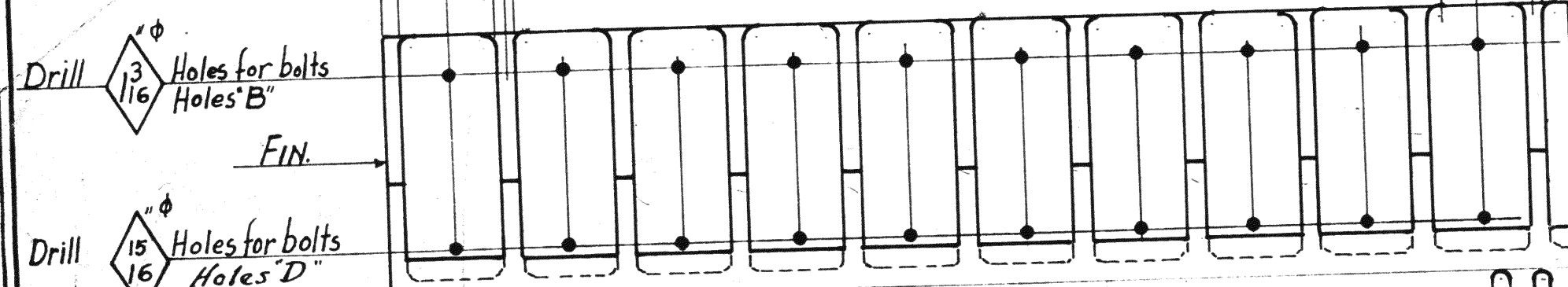
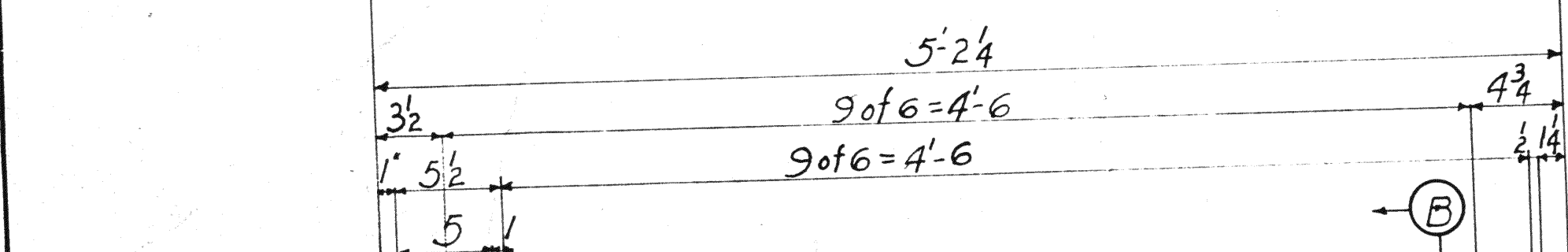
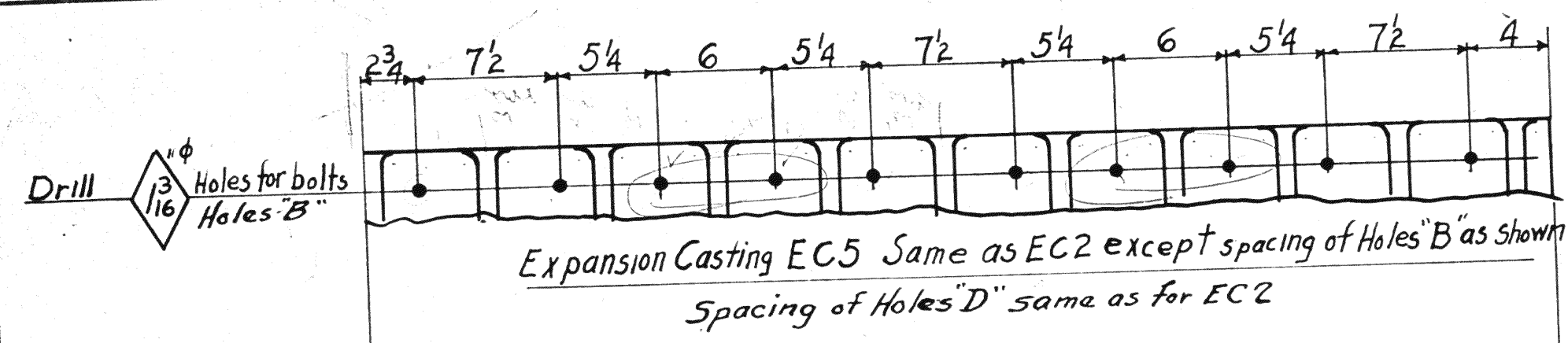
Req. # C.S. 5418

DIV. / SPAN	REQUIRED						TOTAL	DESCRIPTION	MARK
	-6	-5	-4	-3	-2	-1			
SPAN 4	3	2	1	4	5	6	50	Drain Castings	CSI
	6	2	4	1	6	2	20	"	CS2
2				4			0		CS3
5				10			15		CS4

Lorain County, Ohio
 EAST 21st STREET BRIDGE
 Lorain, Ohio

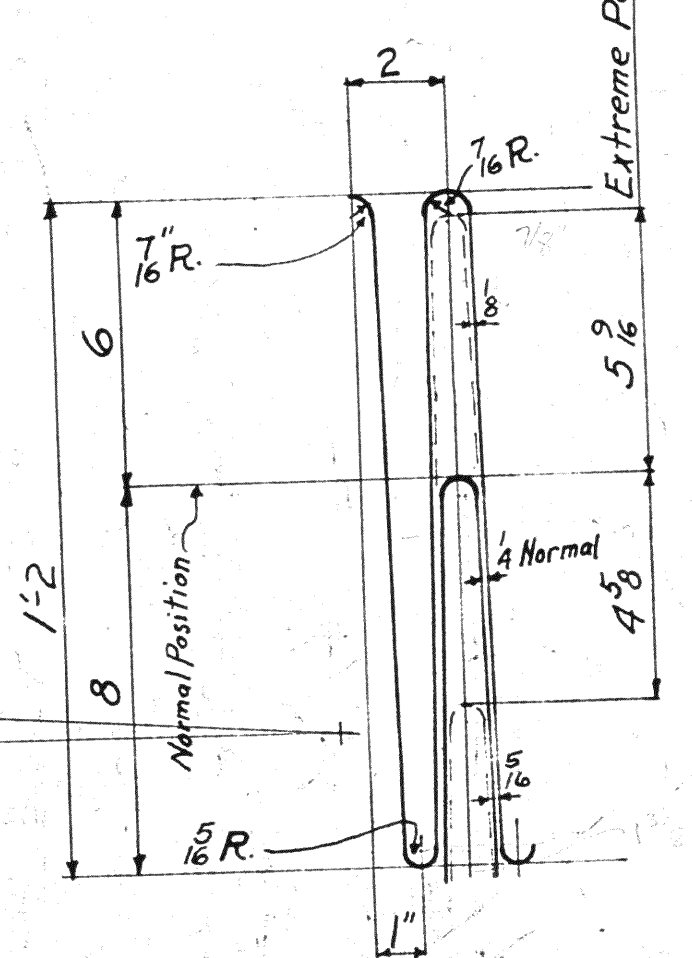
D63-VC-9-38
AMERICAN BRIDGE COMPANY
 DRAWINGS MADE AT Ambridge PAINT
 WORK FABRICATED AT Ambridge PAINT
 IN CHARGE OF Loughman DR
 DRAW. MADE BY ALH DATE 5-22-39
 INSPECTION: James H. Herron Co.
 All Fillets - $\frac{1}{2}$ " Radius
 PAINT: Yes
 FIN. SURFACES: One coat of white Lead & Tallow
 ORDER NO. **H2524** SHEET NO. **154**

REV. 7-25-39



15.24
5/4
12.34

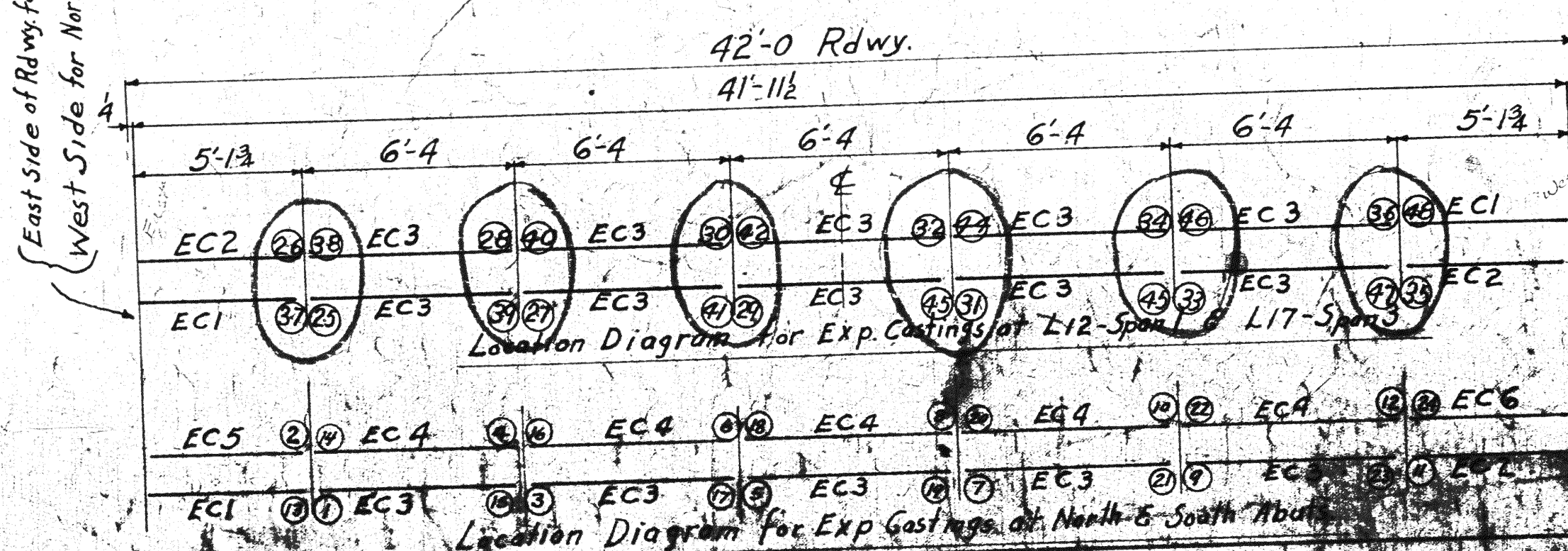
Expansion Casting - EC3
Expansion Casting - EC4
Cast Steel Annealed - WT: 1295 PATT. No. AA 9418 ALT.



All fillets not given are 3/4 Rad.
All Castings must be straight and true to insure accurate matching of teeth.
Spot face, 2/16, around all holes for 1/8 bolts.

Req. No. C35425

Div. 6	4	1	REQUIRED		
Span 3	1	6	Total No.	Description	Mark
2	3	1	6	Exp. Castings	EC1
2	3	1	6	"	EC2
10	15	5	30	"	EC3
	5	5	10	"	EC4
	1	1	2	"	EC5
	1	1	2	"	EC6



East Side for North Abut.
West Side for South Abut. & Railway Exp. Joints
Numbers marked D to @ are match marks for Castings of North Abutment.
Numbers marked @ to @ are match marks for South Abutment.
Numbers marked (2) to (8) are match marks for Castings Span #1.
Numbers marked (9) to (15) are match marks for Castings Span #3.

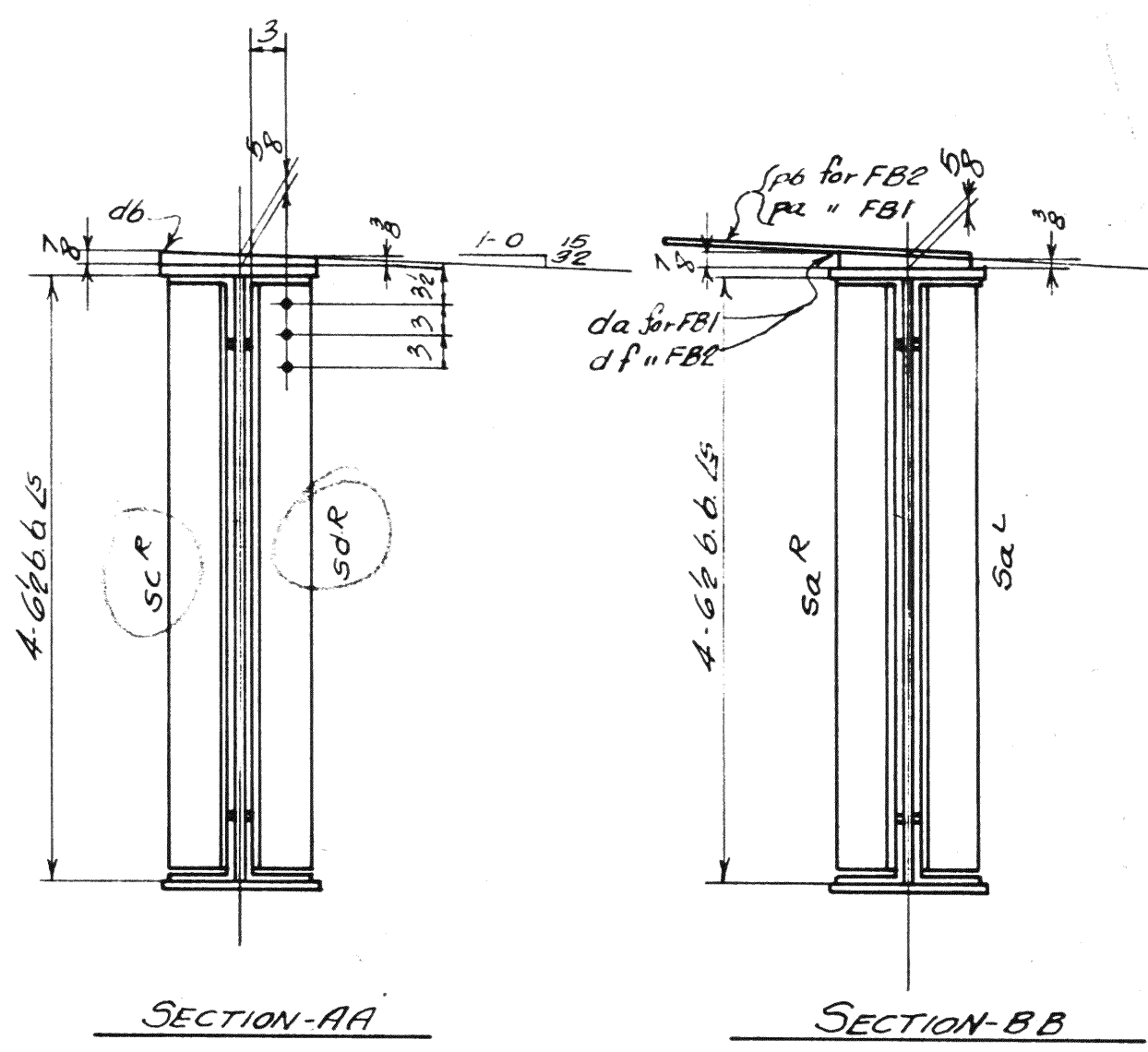
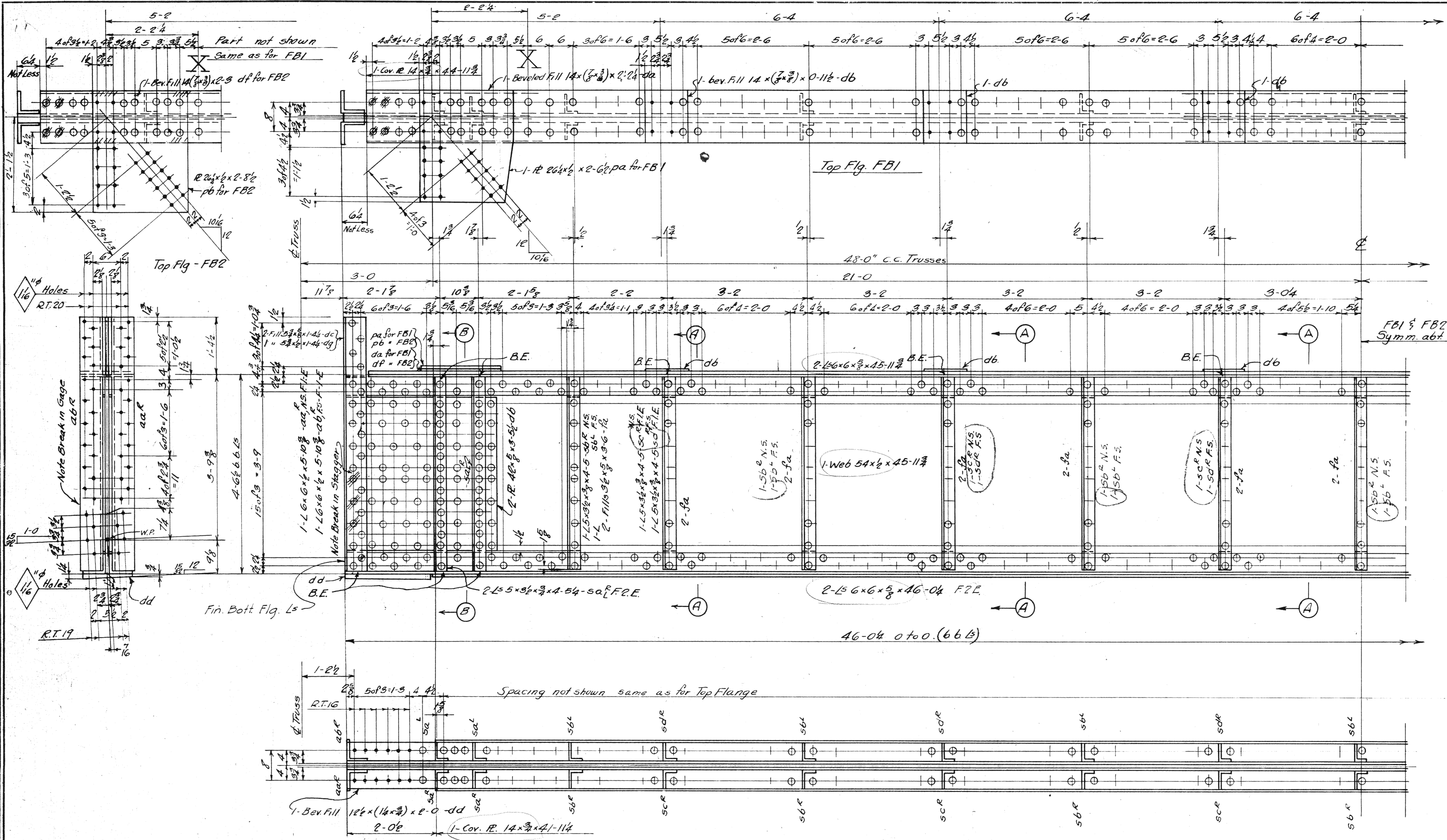
Lorain County, Ohio
EAST 21st STREET BRIDGE
Lorain, Ohio

AMERICAN BRIDGE COMPANY.
DRAWINGS MADE AT: Amb.
WORK FABRICATED AT: Amb.
IN CHARGE OF: Loughman - DR # 2
DRAWN BY: E.R.M. (date) DATE: 2-20-33
DRAWN CHECKED BY: F.F.S. DATE: 4-2-33

ORDER No. 112524 SHEET No. 105

Material: Cast Steel Annealed
A.S.T.M. A27-24, Class B Medium
Specifications: Ohio State Highway
Inspection: James H. Harron Co.

PAINT: Yes
Finish: One coat white lead & flake



END FLOOR BEAM - FBI } All like, except Top Flg. at ends
 " " - FB2 } as shown

LIFTING WT. = 8 TONS

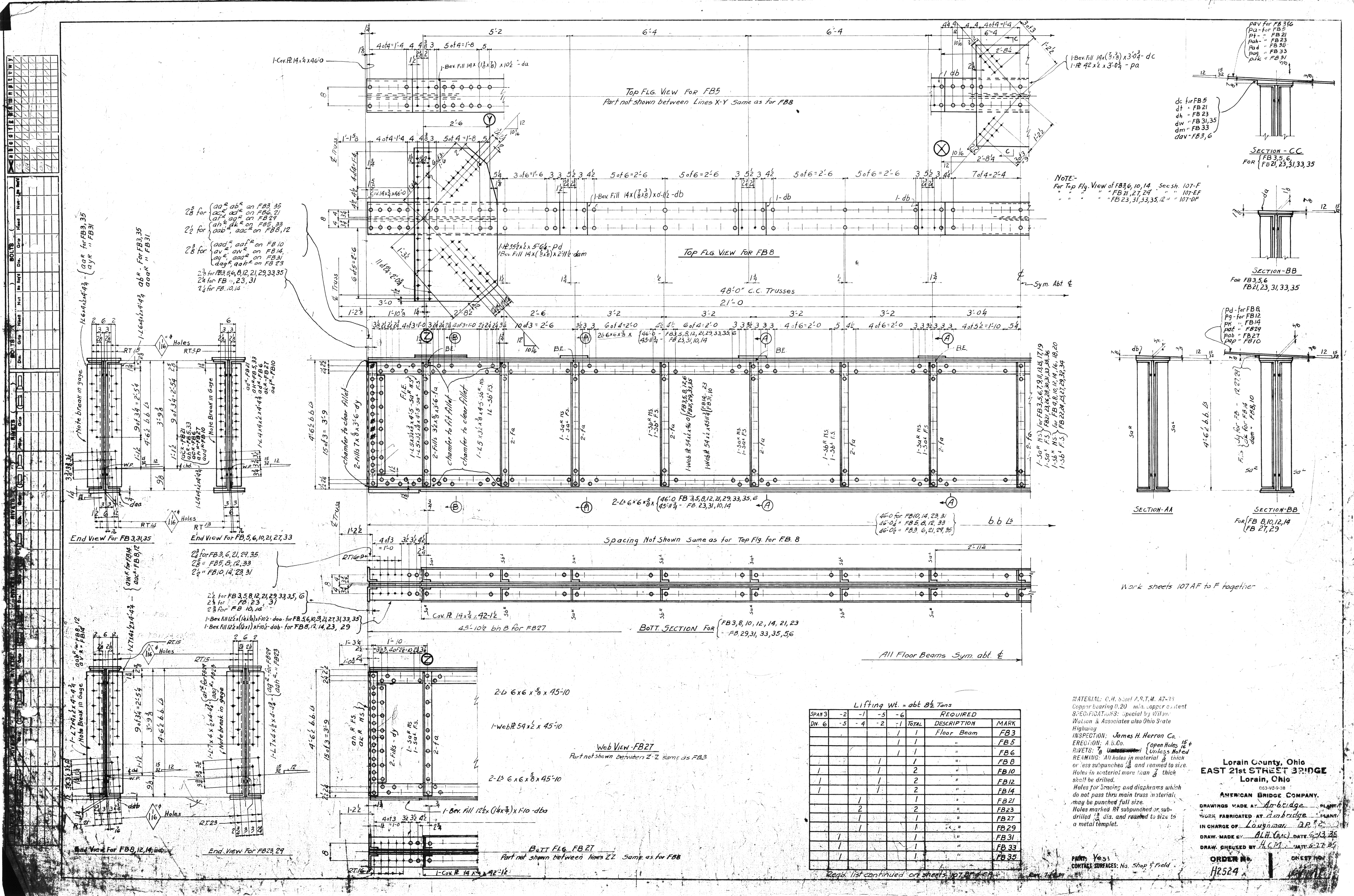
Div	Div 1	Req'd	DESCRIPTION	MARK
SPAN	1	1	End Floor Beam	FBI
	1	1	" "	FB2

MATERIAL: C.H. Steel A.S.T.M. A7-20
 Copper bearing 0.20 min. copper content
 SIZES: FIGS. 1-8: special by Wilson
 Watson & Associates also Ohio State
 Highway
 INSPECTION: James H. Herron Co.
 ERECTION: A.B. Co.
 RIVETS: 3/8" unless noted; Open Holes 1/2" unless noted
 REAMING: All holes in material 3/8" thick
 or less subpunched 1/2" and reamed to size.
 Holes in material more than 3/8" thick
 shall be drilled.
 Holes for bracing and diaphragms which
 do not pass thru main truss material
 may be punched full size.
 Holes marked RT subpunched or sub-
 drilled 1/2" dia. and reamed to size to
 a metal template.

Lorain County, Ohio
EAST 21st STREET BRIDGE
 Lorain, Ohio
 D63-VC-9-38
AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT Ambridge PLANT.
 WORK FABRICATED AT Ambridge PLANT.
 IN CHARGE OF Laughman D.R.#2
 DRAW. MADE BY A.L.H.F.B.R. DATE 5-15-39
 DRAW. CHECKED BY H.C.M. DATE 6-26-39
ORDER NO. 106
HS24

Rev. 7-26-39
 Rev. 7-18-39
 Rev. 7-12-39

PAINT: yes
 CONTACT SURFACES: No; Shop & Field



28 for { aar, abr on FB3,35
 acr, ace on FB2,21
 arx, arz on FB29
 ahx, akx on FB5,33
 aab, aac on FB8,12
 28 for { aar, aar on FB10
 av, avr on FB14
 ag, aag on FB31
 dag, daa on FB29
 28 for FB3,5,6,12,21,29,33,35
 28 for FB 2,3,31
 28 for FB 10,14

28 for FB3,6,21,29,35
 28 for FB5,8,12,33
 28 for FB10,14,23,31

28 for FB3,5,8,12,21,29,33,35,6
 28 for FB 2,3,31
 28 for FB 10,14
 1-Bev Fill 14x(1/8x3) x10 1/2 - da for FB3,6,10,9,21,27,31,33,35
 1-Bev Fill 12x(1/8x3) x10 1/2 - dab for FB8,12,14,23,29

1-L 7x4 x 4 - 44 - aar, abr on FB3,35
 avr, arx on FB31
 1-L 7x4 x 4 - 44 - aar, abr on FB3,35
 avr, arx on FB31
 1-L 7x4 x 4 - 44 - aar, abr on FB3,35
 avr, arx on FB31
 1-L 7x4 x 4 - 44 - aar, abr on FB3,35
 avr, arx on FB31

Top FLG VIEW FOR FB5
 Part not shown between Lines X-Y Same as for FB8

Top FLG VIEW FOR FB8

Spacing Not Shown Same as for Top Flg. for FB. B

BOTT SECTION FOR FB3,8,10,12,14,21,23
 FB 29,31,33,35,56

Web View - FB27
 Part not shown between Z-Z same as FB3

BOTT FLG FB27
 Part not shown between lines ZZ Same as for FB8

NOTE:
 For Top Flg. View of FB3,6,10,14 See sh. 107-F
 "FB 21,27,29 " " " 107-EF
 "FB 23,31,33,35,12 " " " 107-DF

dc for FB5
 dt " FB21
 dh " FB23
 dw " FB31,35
 dm " FB33
 dav " FB3,6

SECTION - CC
 FOR FB3,5,6
 FB21,23,31,33,35

SECTION - BB
 FOR FB3,5,6
 FB21,23,31,33,35

SECTION - AA

SECTION - BB
 FOR FB 8,10,12,14
 FB 27,29

Work sheets 107 AF to F together

All Floor Beams Sym. abt. E

Lifting Wt. = abt 8 1/2 Tons

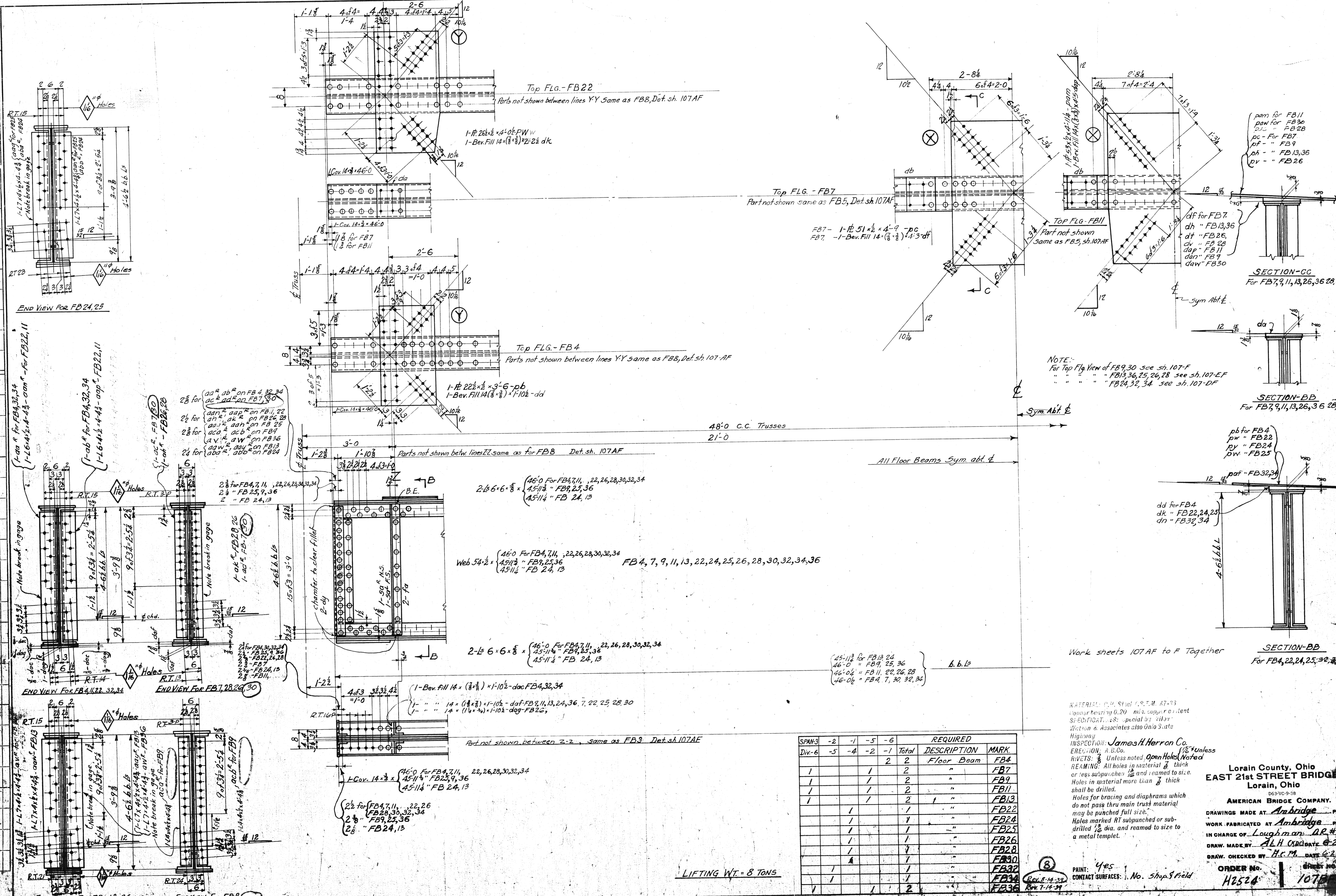
SPAN	3	5	6	10	12	14	21	23	29	33	35	REMARKS
DIV.	3	5	6	10	12	14	21	23	29	33	35	
	2	1	1	1	1	1	1	1	1	1	1	REQUIRED
	2	1	1	1	1	1	1	1	1	1	1	DESCRIPTION
												MARK
												FB3
												FB5
												FB6
												FB8
												FB10
												FB12
												FB14
												FB21
												FB23
												FB27
												FB29
												FB31
												FB33
												FB35

MATERIAL: C.H. Steel A.S.T.M. A7-33
 Copper bearing 0.20 min. copper content
 S.F.E.C. 107-A-33: special by Wilson
 Watson & Associates also Ohio State
 Highway
 INSPECTION: James H. Herron Co.
 ERECTION: A.B.Co. (Open Holes 1/8")
 RIVETS: 7/16" (Unless Noted)
 REAMING: All holes in material 3/8" thick
 or less subpunched 1/2" and reamed to size.
 Holes in material more than 3/8" thick
 shall be drilled.
 Holes for bracing and diaphragms which
 do not pass thru main truss material,
 may be punched full size.
 Holes marked RT subpunched or sub-
 drilled 1/2" dia. and reamed to size to
 a metal template.

Lorain County, Ohio
EAST 21st STREET BRIDGE
 Lorain, Ohio
 1933-V8-9-38
 AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT: Ambridge
 WORK FABRICATED AT: Ambridge
 IN CHARGE OF: Loughman, D.R.
 DRAW. MADE BY: A.H. (GAS) DATE: 6-23-35
 DRAW. CHECKED BY: H.C.M. DATE: 6-27-35
 ORDER NO. H2524

PAINT: Yes
 CONTACT SURFACES: No Shop & Field

Repl. list continued on sheets 107-DF, 107-DF



NOTE:
 For Top Flg. View of FB9,30 see sh.107-F
 " " " " FB13,36,25,26,28 see sh.107-EF
 " " " " FB24,32,34 see sh.107-DF

part for FB11
 part for FB30
 pc - For FB7
 pf - " FB9
 ph - " FB13,36
 pv - " FB26

SECTION-CC
 For FB7,9,11,13,26,36,28,30

SECTION-BB
 For FB7,9,11,13,26,36,28,30

SECTION-BB
 For FB4,22,24,25,30,34

Work sheets 107 AF to F Together

MATERIAL: C.P. Steel, S.T.M. A7-33
 Copper bearing 0.20 min. copper content
 SIFERCO-T-28: special by Wilson
 Wetson & Associates also Ohio State
 Highway

INSPECTION: James H. Herron Co.
 ERECTION: A.B.Co.
 RIVETS: 3/8" Unless noted, Open Holes (Noted)
 REAMING: All holes in material 3/8" thick
 or less subpunch 1/2" and reamed to size.
 Holes in material more than 3/8" thick
 shall be drilled.
 Holes for bracing and diaphragms which
 do not pass thru main truss material
 may be punched full size.
 Holes marked RT subpunch or sub-
 drilled 1/2" dia. and reamed to size to
 a metal template.

Lorain County, Ohio
 EAST 21st STREET BRIDGE
 Lorain, Ohio

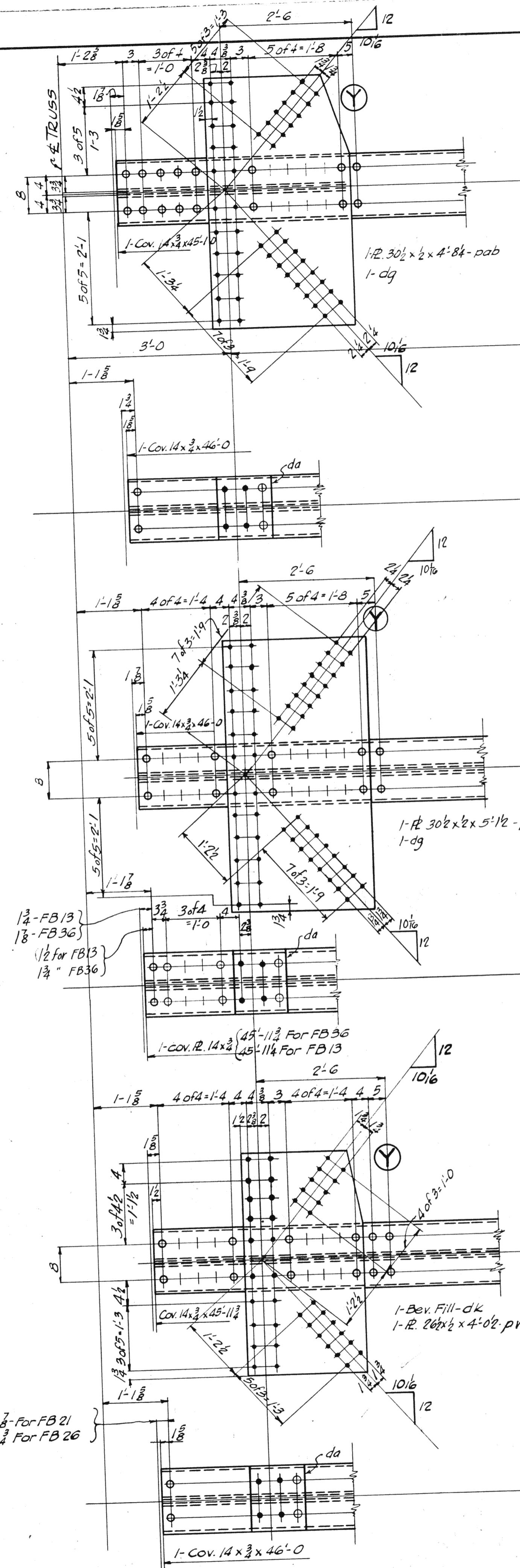
AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT: Ambridge
 WORK FABRICATED AT: Ambridge
 IN CHARGE OF: Loughman, DR.#2
 DRAW. MADE BY: A.L.H. (KRO) DATE: 6-22-27
 DRAW. CHECKED BY: H.C.M. DATE: 6-22-27
 ORDER NO. H2524
 SHEET NO. 107F

SPAN-3	REQUIRED				DESCRIPTION	MARK
	-2	-1	-5	-6		
Div-6	-5	-4	-2	-1	Total	
					2	Floor Beam
					2	FB4
					2	FB7
					2	FB9
					2	FB11
					1	FB13
					1	FB22
					1	FB24
					1	FB25
					1	FB26
					1	FB28
					1	FB30
					1	FB32
					1	FB34
					2	FB36

LIFTING WT. = 8 TONS

Reqd. list continued on sheet 107-G

BOLTS		RIVETS		BOLTS		RIVETS		BOLTS		RIVETS		BOLTS		RIVETS	
Qty	Size	Qty	Size	Qty	Size	Qty	Size	Qty	Size	Qty	Size	Qty	Size	Qty	Size



Top Plan View for FB 27
Part not shown between lines YY same as FB-8, Det. sh. 107-AF

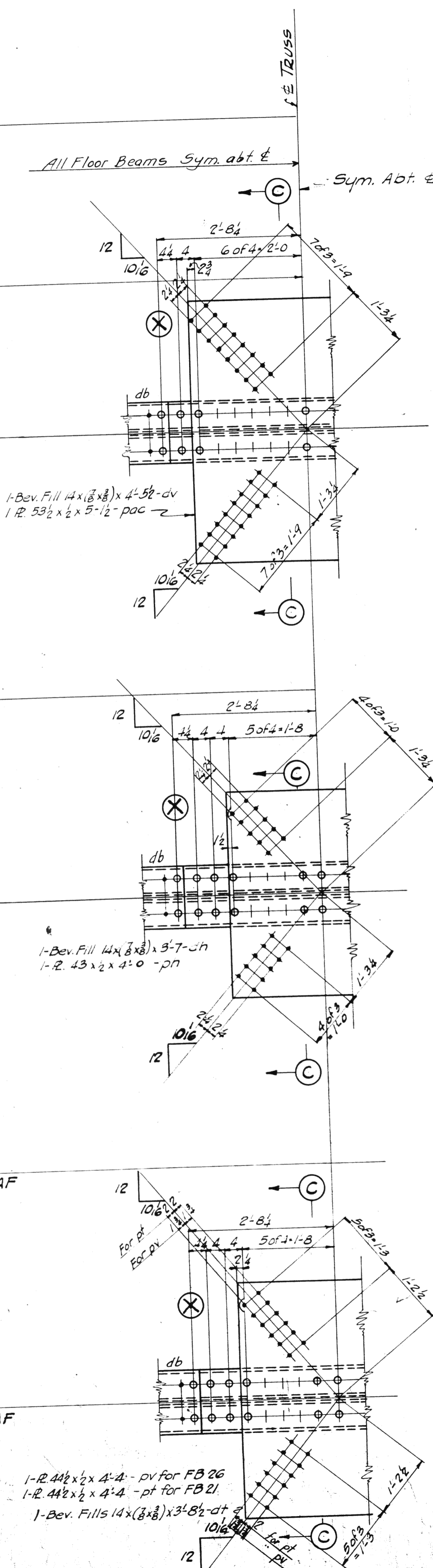
Top Plan View for FB 28
Part not shown same as FB-5, Det. sh. 107-AF

Top Plan View for FB 29
Part not shown between lines YY same as FB-8, Det. sh. 107-AF

Top Plan View for FB 36
Part not shown same as FB-5, Det. sh. 107-AF

Top Plan View for FB 25
Part not shown between lines YY same as FB-8, Det. sh. 107-AF

Top Plan View for FB 21, 26
Part not shown same as FB-5, Det. sh. 107-AF

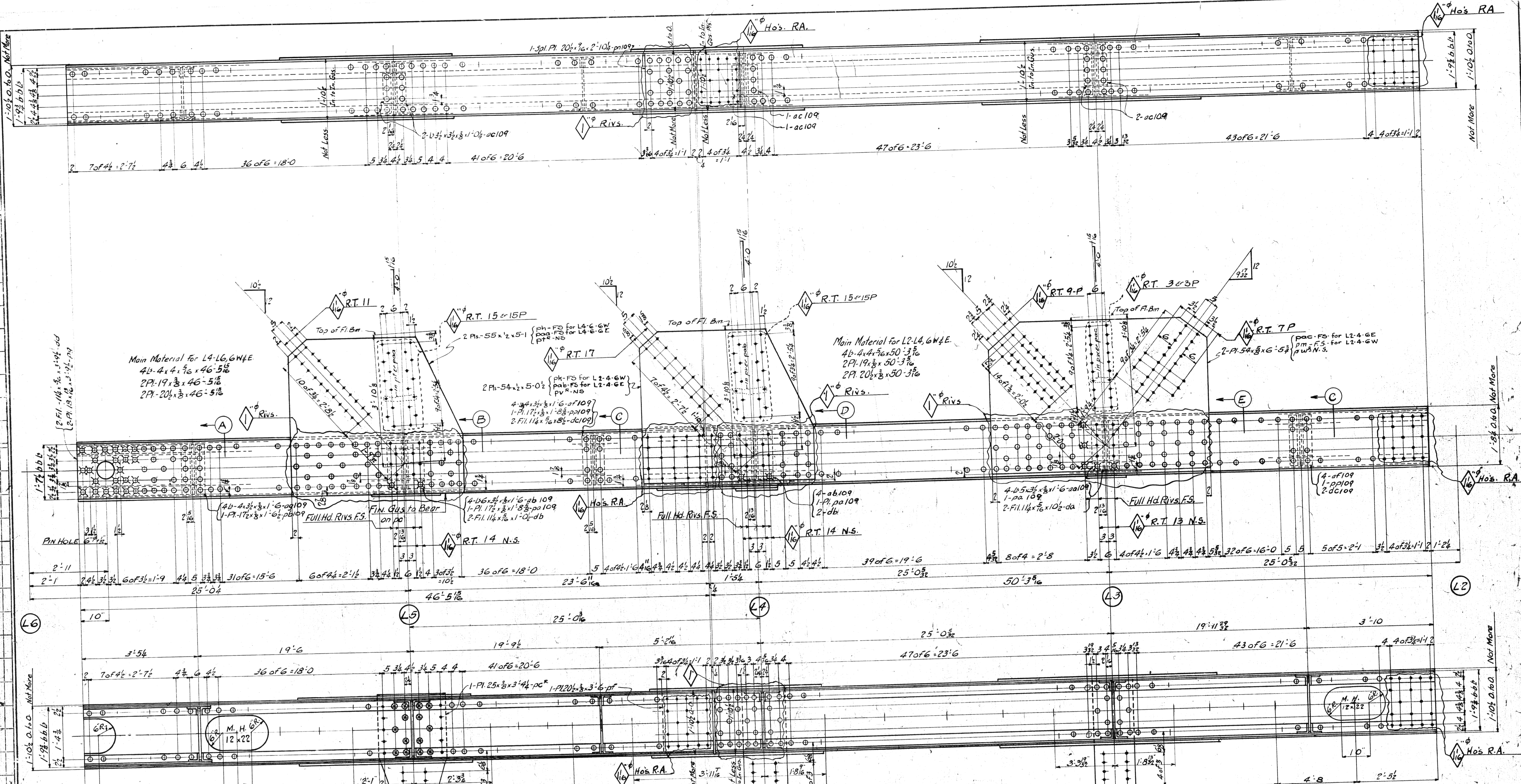


Note:
For section C-C for FB 21, 27, 29 - See Sh. No. 107-AF
For section C-C for FB 13, 25, 26, 28, 36 - See Sh. No. 107-BF

MATERIAL: C.H. Steel A.S.T.M. A7-36
Gouge bearing 0.20 min. copper content
SPECIFICATIONS: special by Miller
Wet-on & Associates also Ohio State
Highway
INSPECTOR: James H. Herron, Co
ERECTION: A. S. Co.
RIVETS: $\frac{3}{8}$ unless noted, Open Holes $\frac{1}{16}$
REAMING: All holes in material $\frac{3}{8}$ thick
or less subpunched $\frac{1}{16}$ and reamed to size.
Holes in material more than $\frac{3}{8}$ thick
shall be drilled.
Holes for bracing and diaphragms which
do not pass thru main truss material
may be punched full size.
Holes marked RT subpunched or sub-
drilled $\frac{1}{16}$ dia. and reamed to size to
a metal template.

Lorain County, Ohio
EAST 21st STREET BRIDGE
Lorain, Ohio
AMERICAN BRIDGE COMPANY.
DRAWINGS MADE AT Ambridge PLANT.
WORK FABRICATED AT Ambridge PLANT.
IN CHARGE OF Loughman DR #2
DRAWN BY A.L.H.-J.R. DATE 6-19-37
DRAW. CHECKED BY H.C.M. DATE 6-28-37
ORDER NO. H2524
SHEET NO. 107-EF

PAIN: Yes
CONTACT SURFACES: No, Shop & field

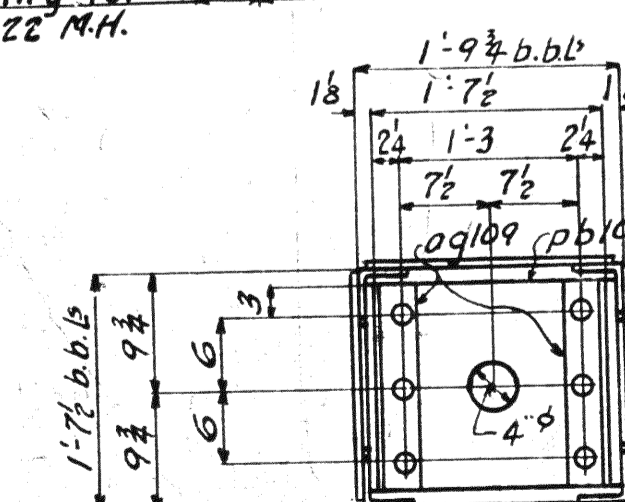


Main Material for L4-6, 6W&E
 4L-4x4x5/16x46-5 1/2
 2PL-19x3x5/8x46-5 1/2
 2PL-20x3x5/8x46-5 1/2

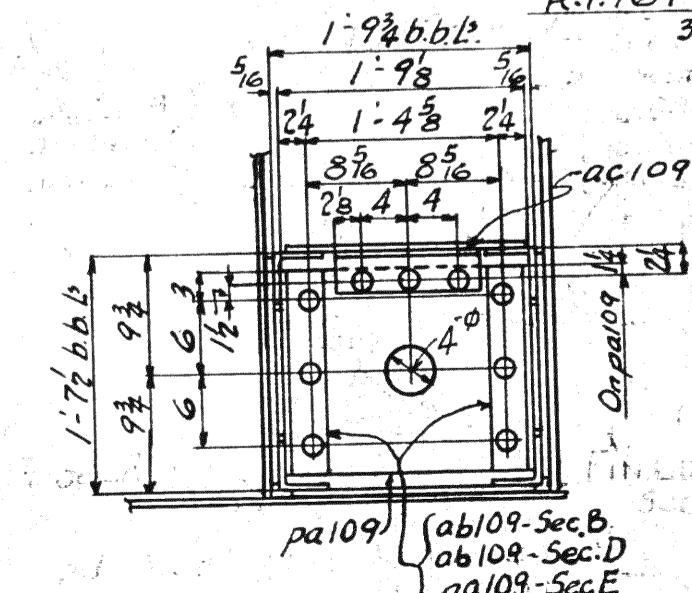
Main Material for L2-4, 6W&E
 4L-4x4x5/16x50-3 3/8
 2PL-19x3x5/8x50-3 3/8
 2PL-20x3x5/8x50-3 3/8

pac-FS for L2-4-GE
 pm-FS for L2-4-GE
 pu&N.S.

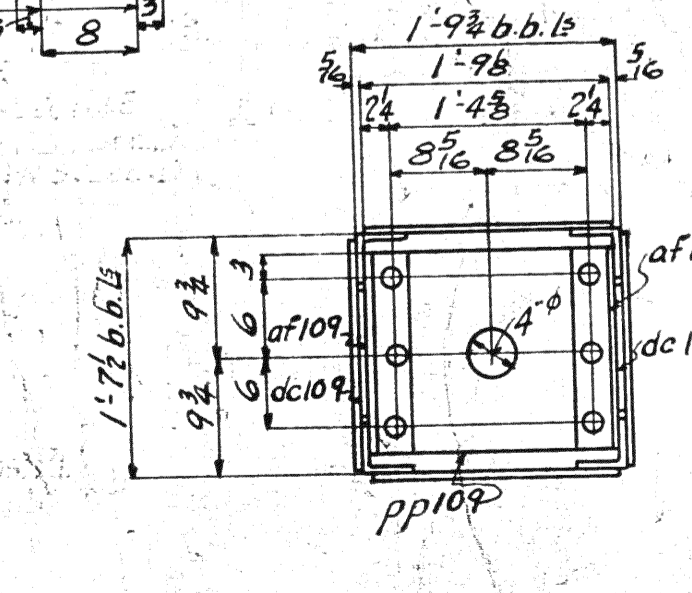
Spacing for 12x22 M.H.



SECTION-A

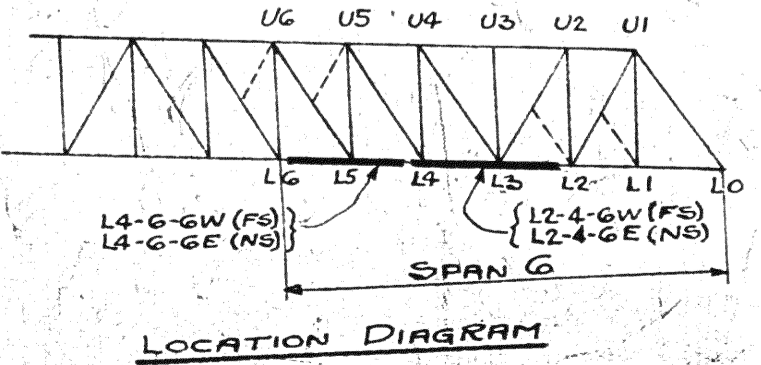


SECTION-B



SECTION-C

LIFTING WT. = 6 tons each } L2-4, 6W
 L2-4, 6E (Left of L2-4, 6W except gusset plates at L3 and L4 - (FS))
 LIFTING WT. = 5 tons each } L4-6, 6W
 L4-6, 6E (Left of L4-6, 6W except gusset plates at L5 - (FS))



LOCATION DIAGRAM

SPAN 6 - DIV. I

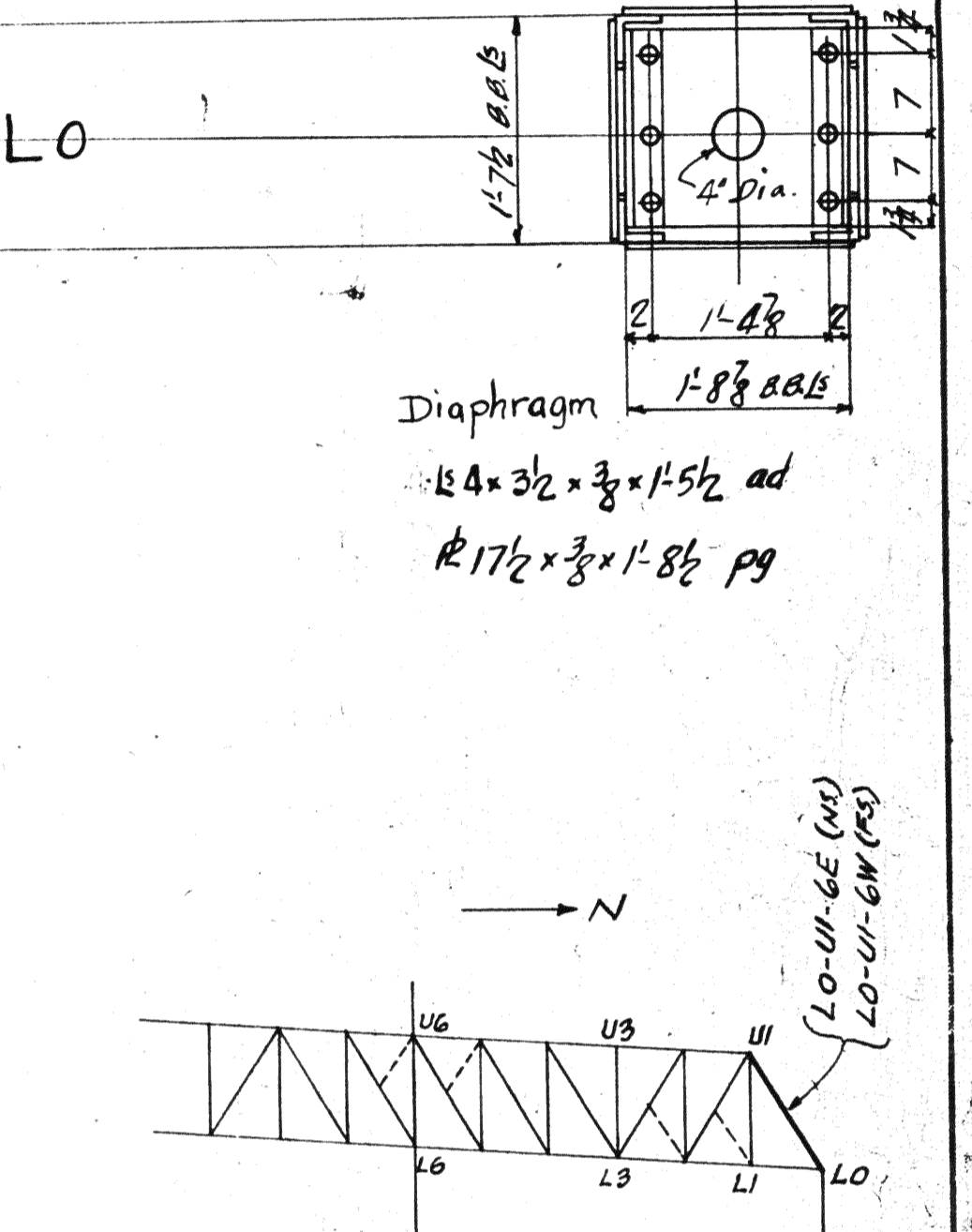
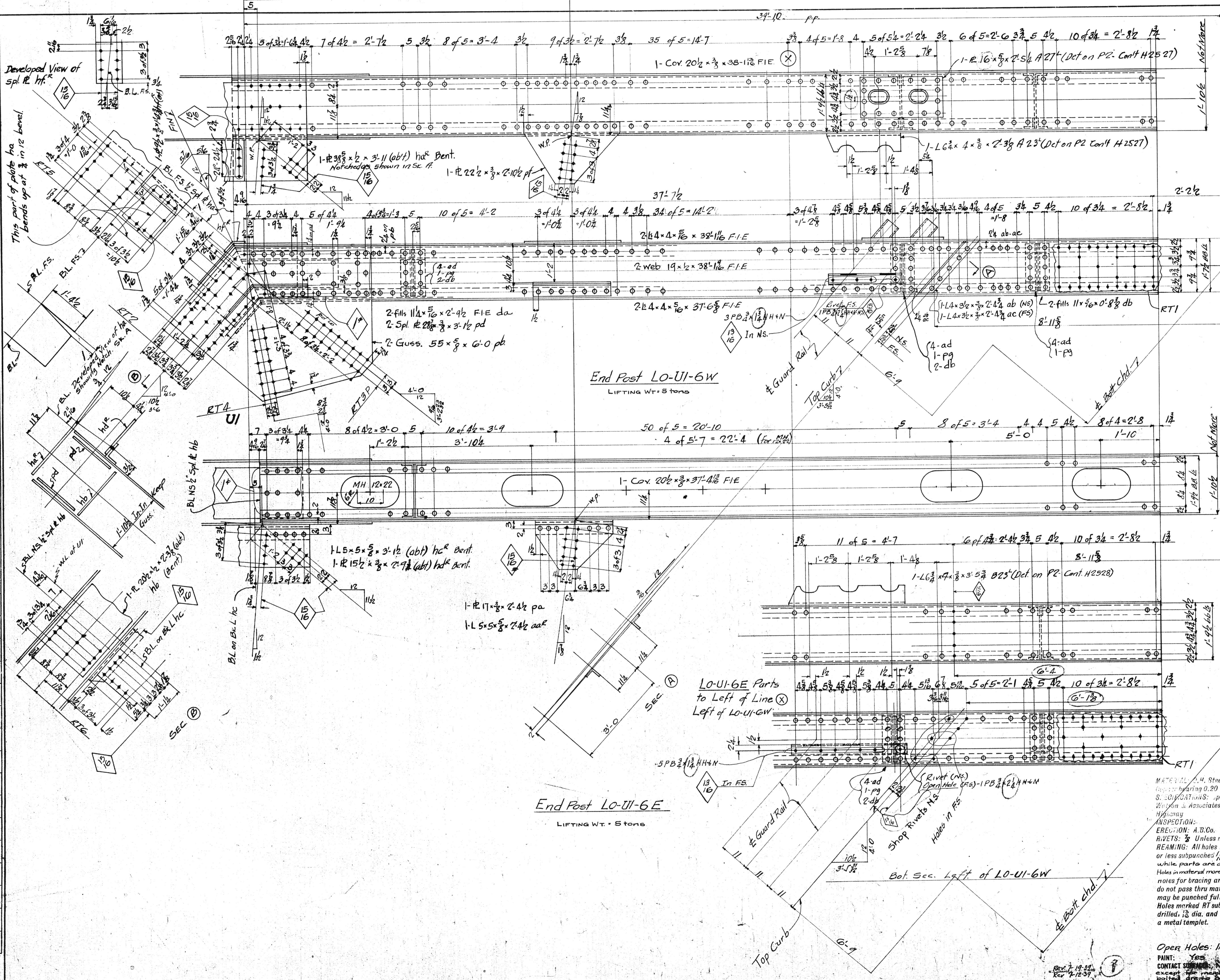
REQUIRED		
No	Description	Mark
1	Bottom Chord	L2-4, 6W
1	"	L2-4, 6E
1	"	L4-6, 6W
1	"	L4-6, 6E

MATERIAL: O.H. Steel A.S.T.M. A7-33
 Copper bearing 0.20 min. copper content
 SPECIFICATIONS: special by W.H. Watson & Associates also Ohio State Highway INSPECTION:
 ERECTION: A.B.Co.
 RIVETS: 5/8" Unless noted; 15/16" holes Unless noted
 REAMING: All holes in material 5/8" thick or less subpunched 1/2" and reamed to size. Holes in material more than 5/8" thick shall be drilled.
 Holes for bracing and diaphragms which do not pass thru main truss material may be punched full size.
 Holes marked RT subdrilled or subdrilled 1/2" dia. and reamed to size to a metal template.
 Holes marked RA reamed while chords are assembled.

Lorain County, Ohio
EAST 21st STREET BRIDGE
 Lorain, Ohio
 0633-W-9-38
AMERICAN BRIDGE COMPANY.
 DRAWING MADE AT **Ambridge** PLANT
 WORK FABRICATED AT **Ambridge**
 IN CHARGE OF **Loughman**
 DRAW. MADE BY **ERM**
 DRAW. CHECKED BY **ERM**
 ORDER NO. **H2517**

Rev. 7/7/39
 Rev. 1-22-39

PAINT: Yes.
 CONTACT SURFACES: Not shop or field



Location Diagram * SPAN #6 DIVISION #1

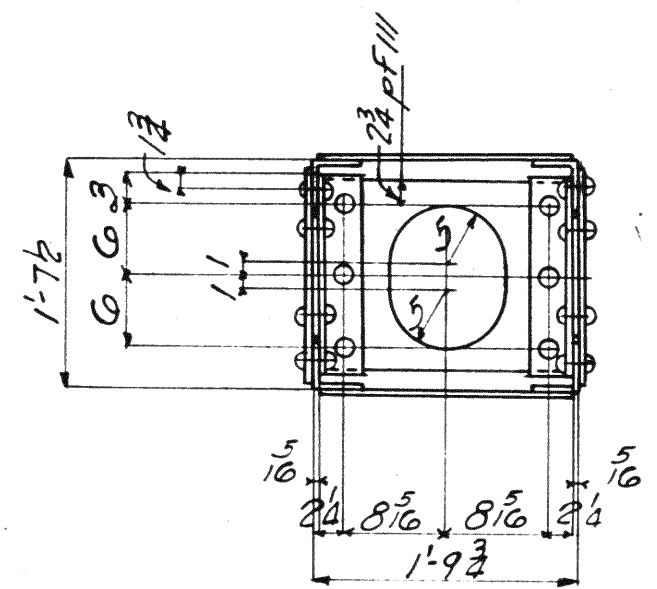
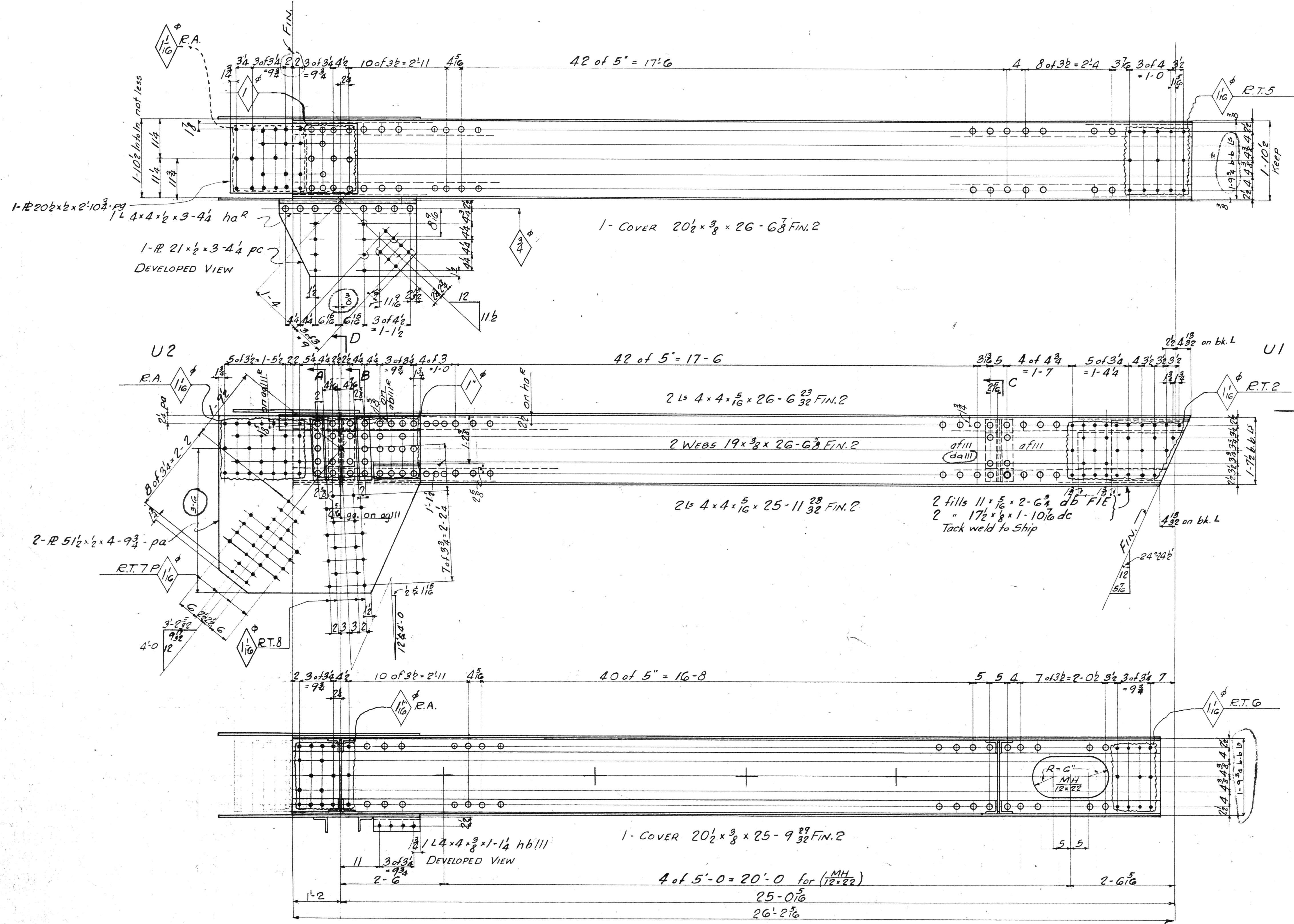
Required			
Span	No	Description	Mark
1	1	End Post	LO-UI-6W
1	1	End Post	LO-UI-6E

MATERIAL: A.A. Steel A.S.T.M. A7-98
 Coating: having 0.20 min. copper content
 S. C. CONNECTIONS: special by Wilbur
 Weston & Associates also Ohio State
 Highway
 INSPECTION:
 ERECTION: A.B.Co.
 RIVETS: $\frac{3}{8}$ Unless noted
 REAMING: All holes in material $\frac{1}{8}$ thick
 or less subpunched $\frac{1}{32}$ and reamed to size
 while parts are assembled.
 Holes in material more than $\frac{3}{8}$ thick shall be drilled.
 Holes for bracing and diaphragms which
 do not pass thru main truss material
 may be punched full size.
 Holes marked RT subpunched or sub-
 drilled, $\frac{1}{8}$ dia. and reamed to size to
 a metal template.

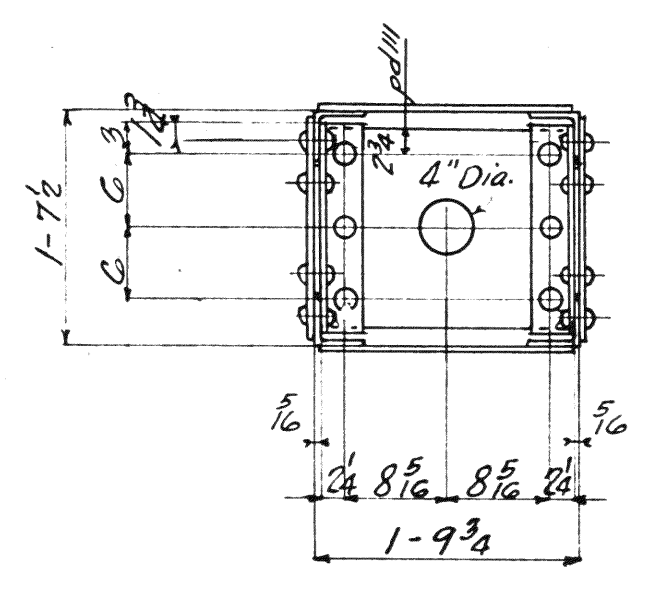
Lorain County, Ohio
 EAST 21st STREET BRIDGE
 Lorain, Ohio
 D65-VC-9-38
 AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT Ambridge PLANT.
 WORK FABRICATED AT Ambridge PLANT.
 IN CHARGE OF Laughman DR #2
 DRAW. MADE BY H.E.M. DATE 6-1-37
 DRAW. CHECKED BY R.R. DATE 6-12-37
 ORDER NO. H2524 SHEET NO. 11

LO-UI-6E Parts
 to Left of Line X
 Left of LO-UI-6W

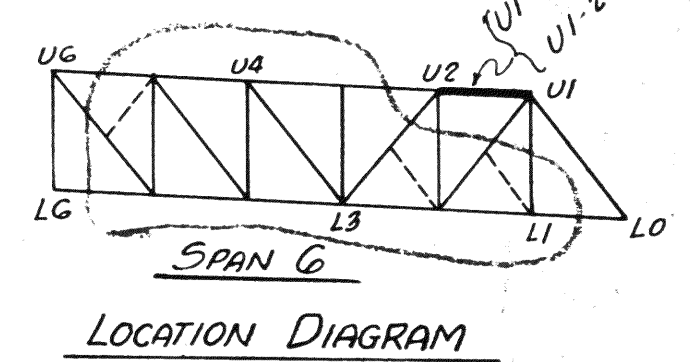
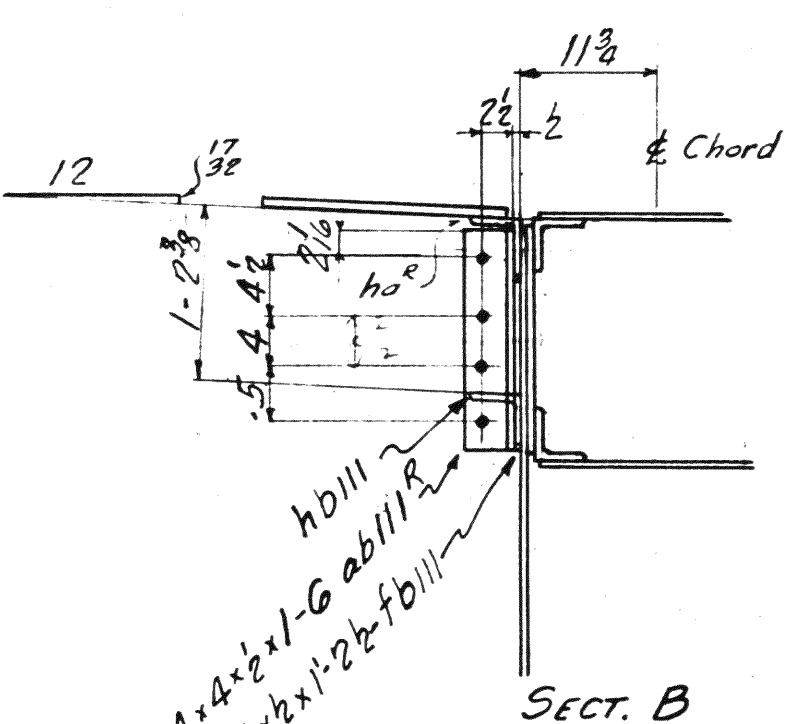
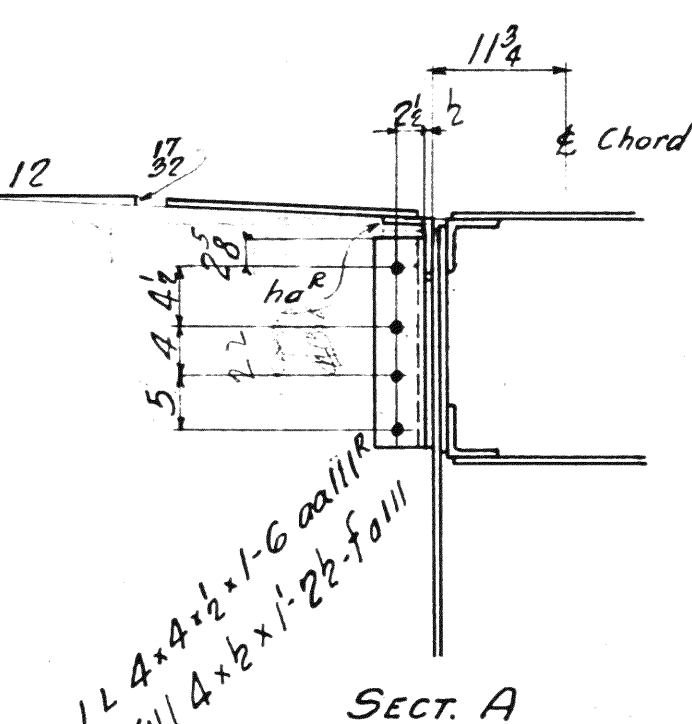
Open Holes: $\frac{1}{16}$ Unless Noted
 PAINT: Yes
 CONTACT SURFACES: No - Shop and Field
 except for members permanently
 bolted draws to be painted.



4 Ls 4x3 1/2 x 3/8 x 1'-6" ag III
1- 17 1/2 x 3/8 x 1'-7 3/8 - pd III
2- fills 8 x 1/2 x 11 - da III



4 Ls 4x3 1/2 x 3/8 x 1'-6" af III
2 fills 8 x 1/2 x 11 - da III
1- 17 1/2 x 3/8 x 1'-7 3/8 pd III



SPAN 6 - DIVISION 1

REQUIRED		
NO.	DESCRIPTION	MARK
1	Top Chord	UI-2-GW
1	" "	UI-2-GE

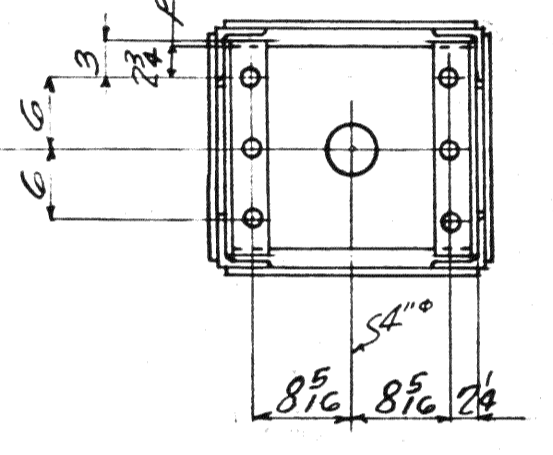
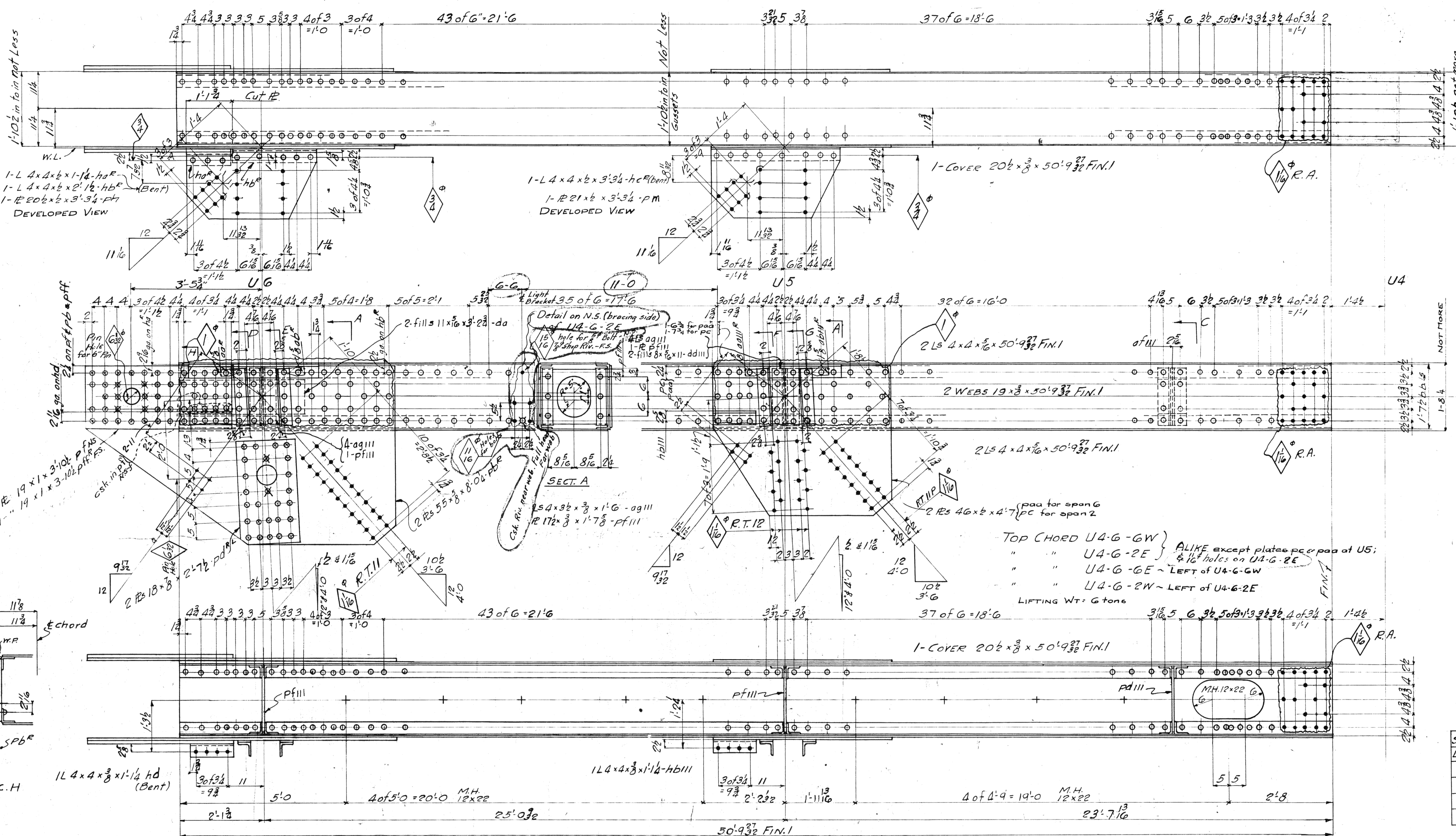
MATERIAL: C.H. Steel ASTM A7-36
Copper bearing 0.20
SPECIFICATIONS:
Watson & Associates
Highway
INSPECTION:
ERECTION: A.B.Co.
RIVETS: 7/8" Unless noted
HOLES: 1 1/8" Unless Noted
REMARKS: All holes in material 3/8" thick or less punched 1/8" and reamed to size while parts are assembled.
Holes in material more than 3/8" thick shall be drilled.
Holes for bracing and diaphragms which do not pass thru main truss material may be punched full size.
Holes marked RT subpunched or sub-drilled 1/2" dia. and reamed to size to a metal template.
Holes marked RA reamed while chords of trusses are assembled.
PAINT: Yes
CONTACT SURFACES: No-shape Field

Lorain County, Ohio
EAST 21st STREET BRIDGE
Lorain, Ohio
AMERICAN BRIDGE COMPANY.
DRAWINGS MADE AT Ambridge PLANT.
WORK FABRICATED AT Ambridge PLANT.
IN CHARGE OF Loughman #2
DRAW. MADE BY J.J.D. DATE 6-1-39
DRAW. CHECKED BY V.G. DATE
ORDER No. H 2524 SHEET No. 111

8

Rev 7-12-37

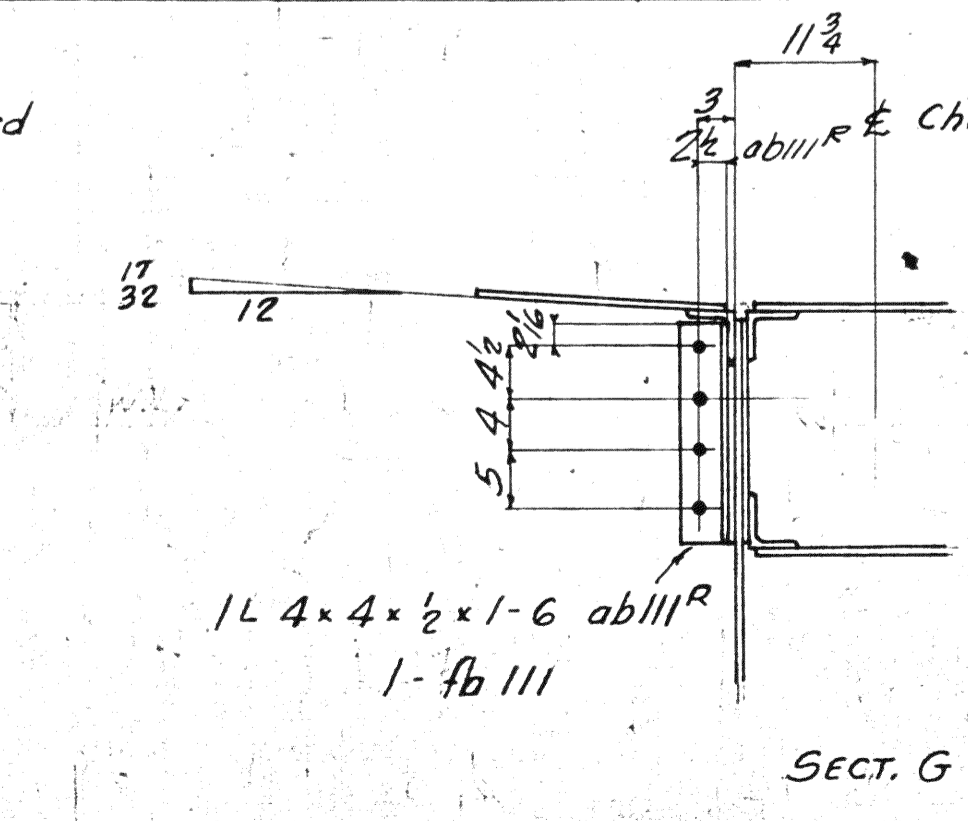
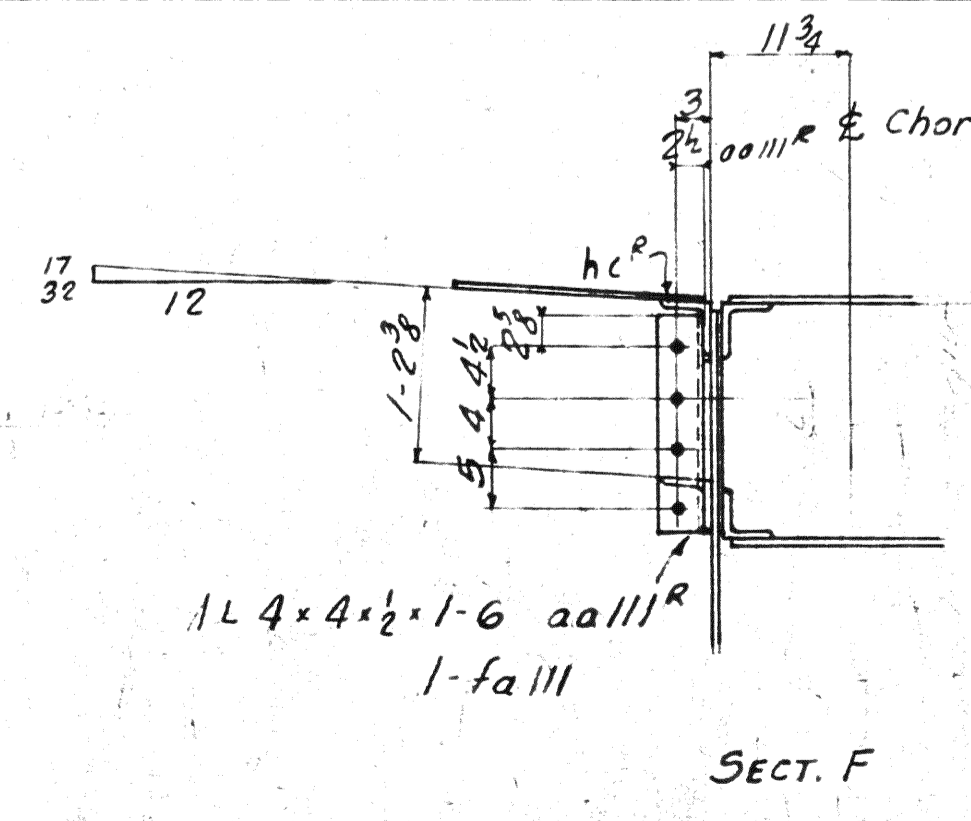
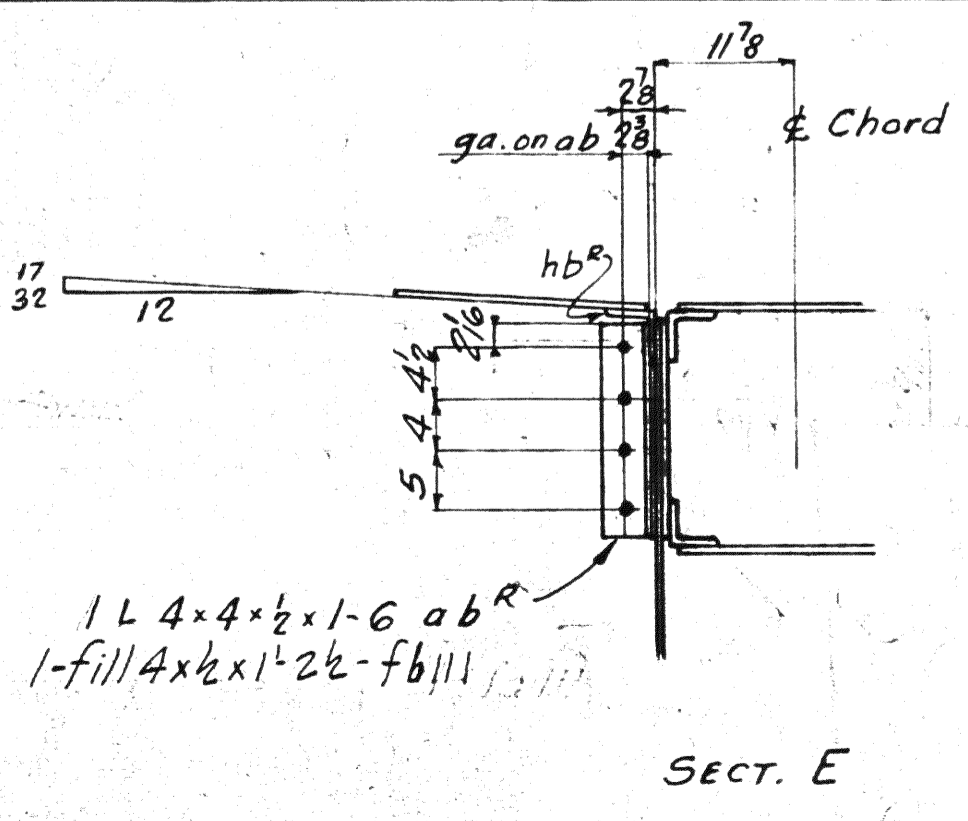
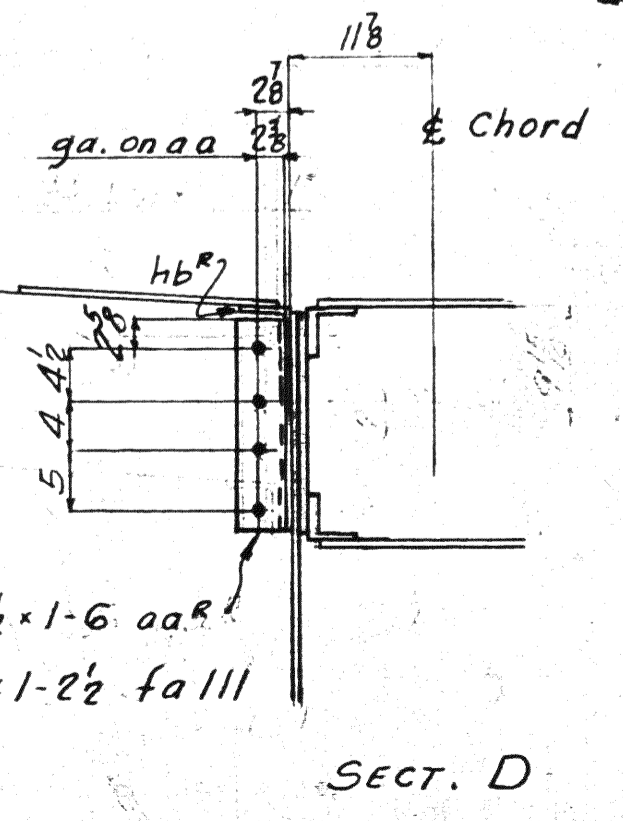
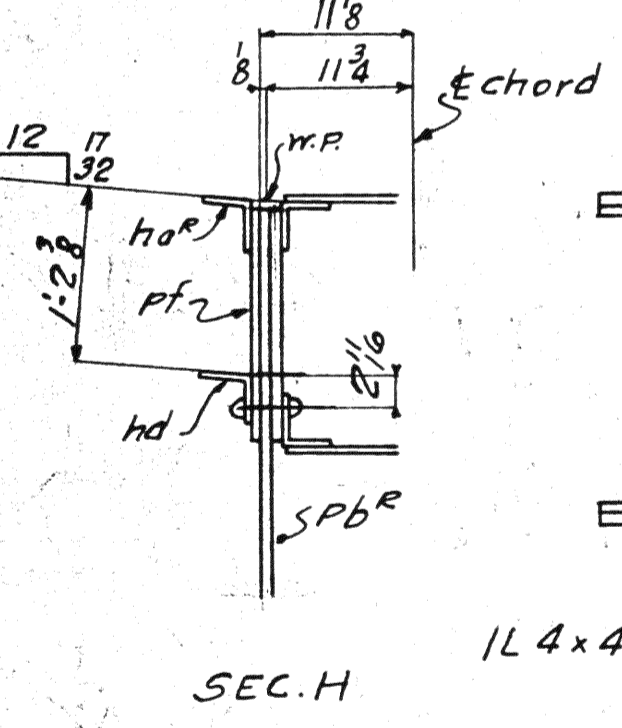
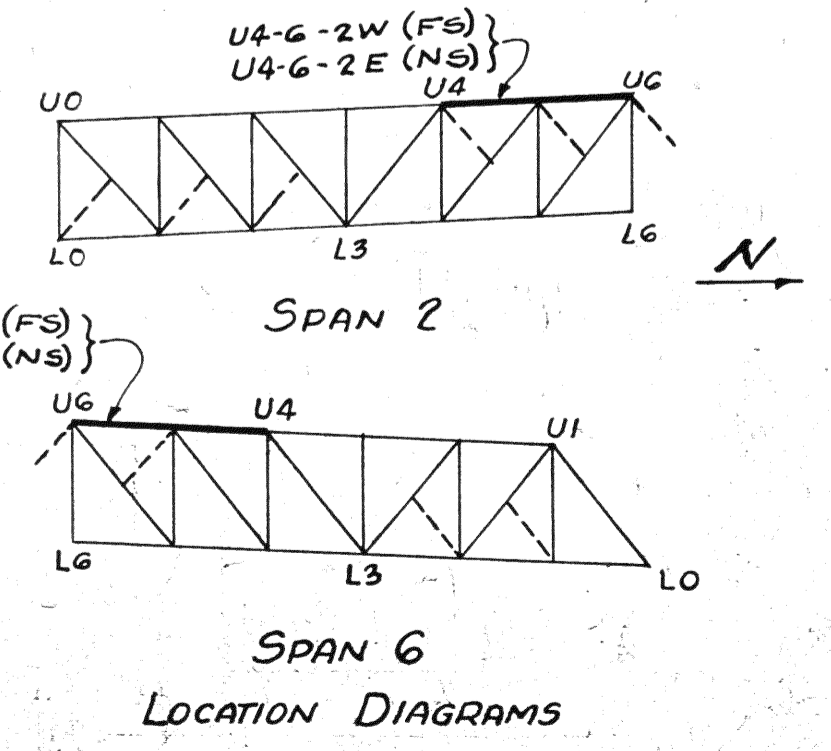
BOLTS	DIAM.	HEAD	TYPE	IN USE	IN STOCK	IN DRAWING
RIVETS	DIAM.	HEAD	TYPE	IN USE	IN STOCK	IN DRAWING



SECT. C
 4 LS 4x36x3/8x1/2
 1 R 17x3x1/2
 2 fills 8x5/16x11

Span 2	Span 6	REQUIRED	MARK
Div 5	Div 1	NO. DESCRIPTION	
1	1	TOP CHORD	U4-G-GW
1	1	" "	U4-G-GE
1	1	" "	U4-G-2E
1	1	" "	U4-G-2W

MATERIAL: A. H. Steel 1.8.7.1 A7-6
 Upper bearing 1/2" dia. rivets
 SPECIFICATIONS: Special by Winbur
 Wilson & Associates also Ohio State
 Highway
 INSPECTION: James H. Har on Co.
 ERECTION: A. B. Co.
 RIVETS: 3/8" unless noted
 OPEN HOLES: 1/2" unless noted
 HEAVY: All holes in material 3/8" thick
 or less subpunch 1/2" dia. and reamed
 to size while parts are assembled.
 Holes in material more than 3/8" thick
 shall be drilled.
 Holes for bracing and diaphragms which
 do not pass thru main truss material
 may be punched full size.
 Holes marked RT subpunched or sub-
 drilled 1/2" dia. and reamed to size to
 a metal template.
 Holes marked RA reamed while chords
 of trusses are assembled.



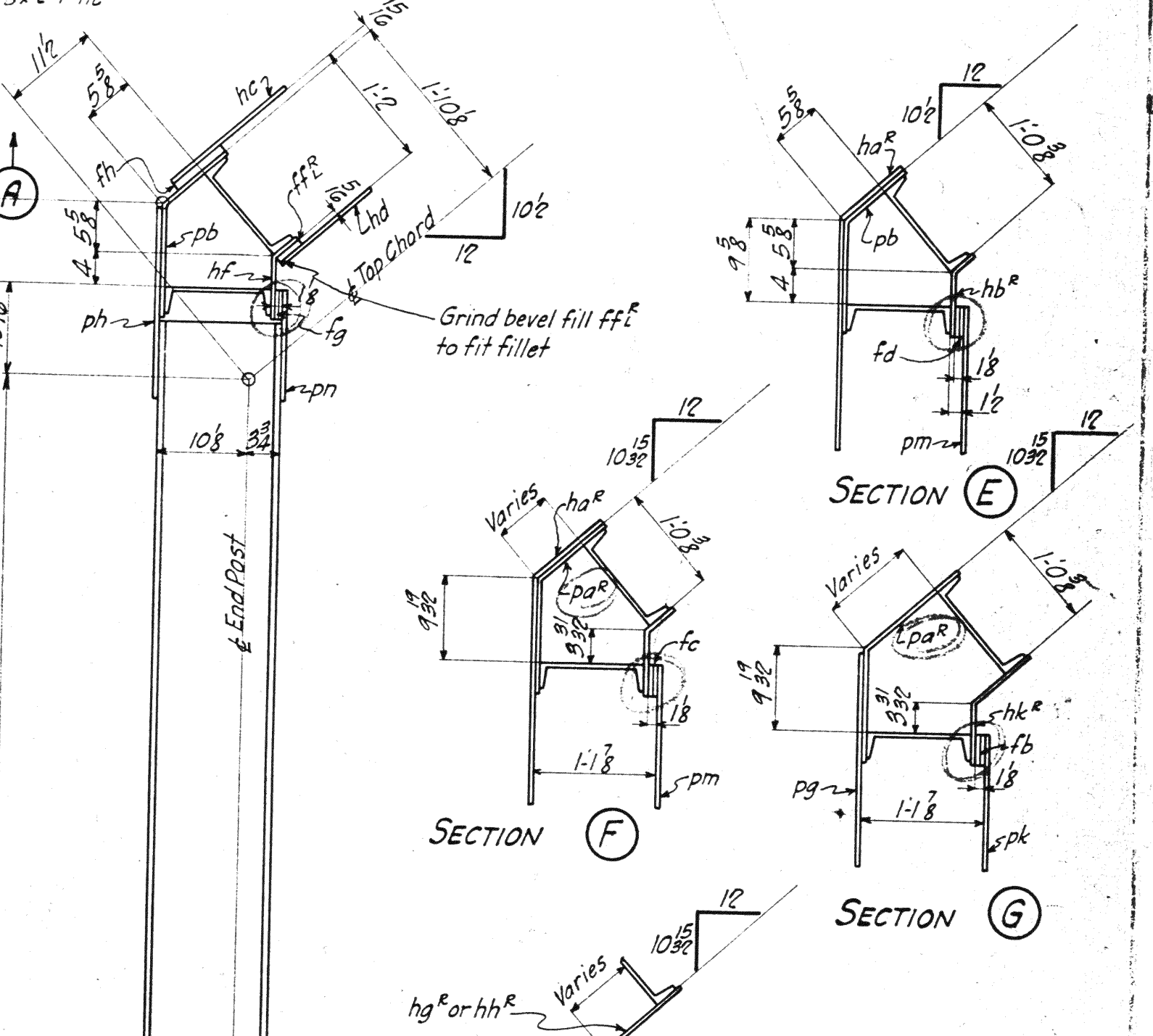
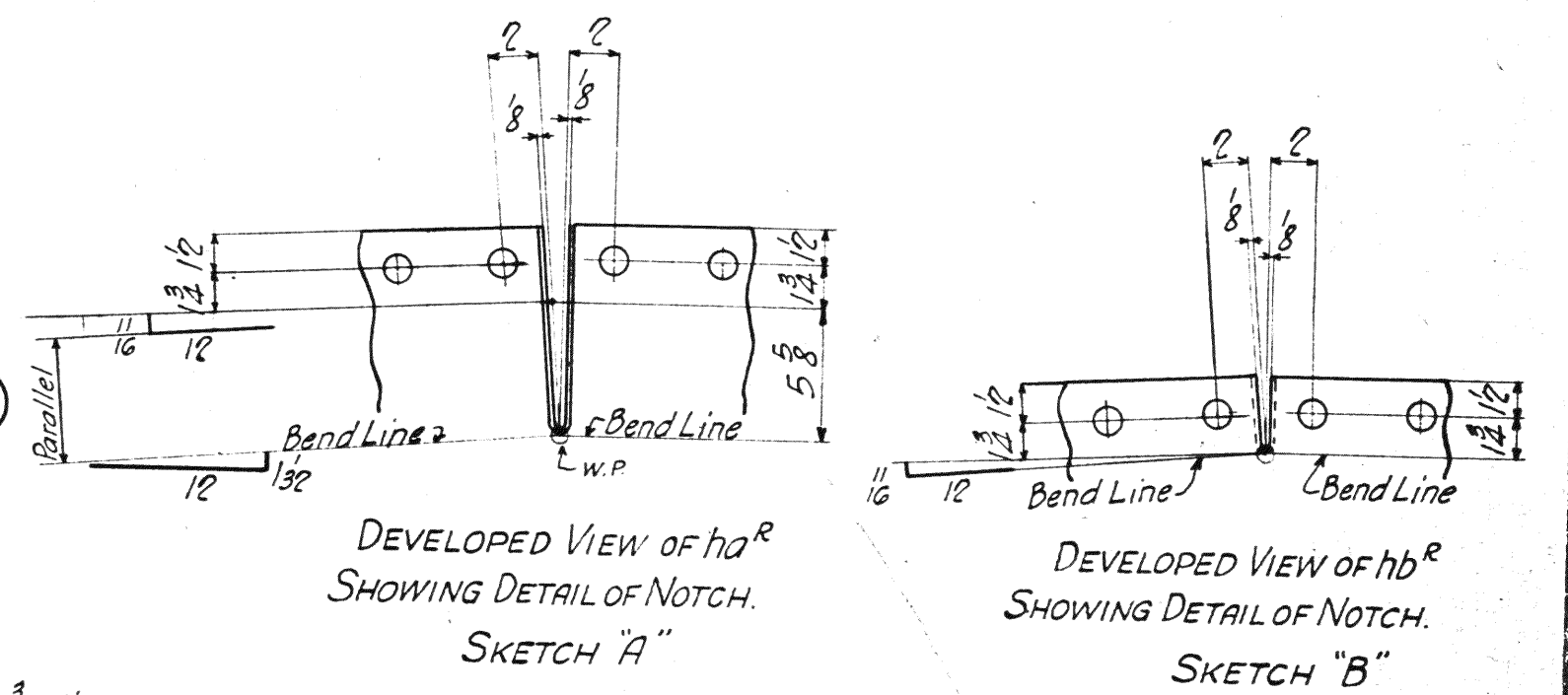
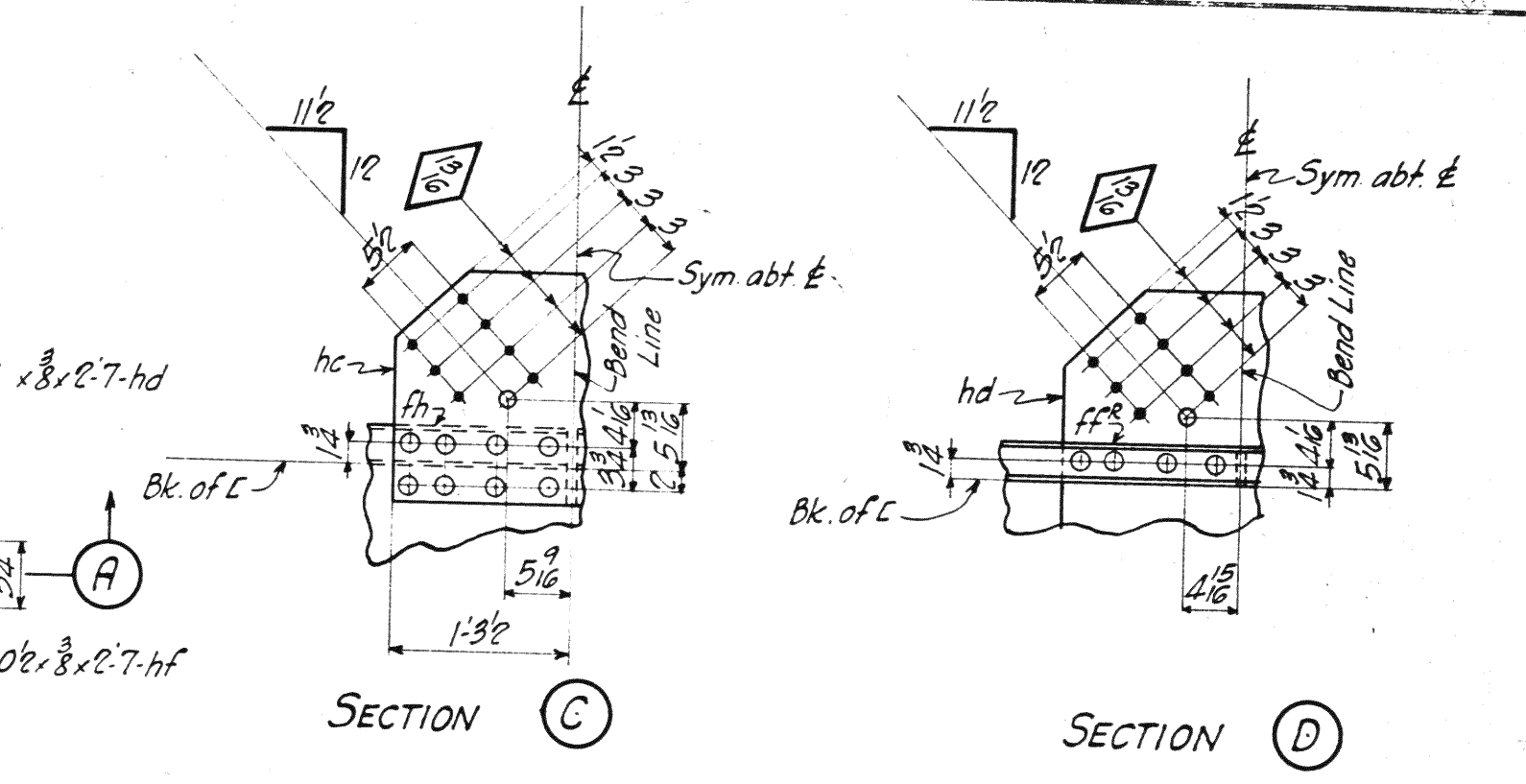
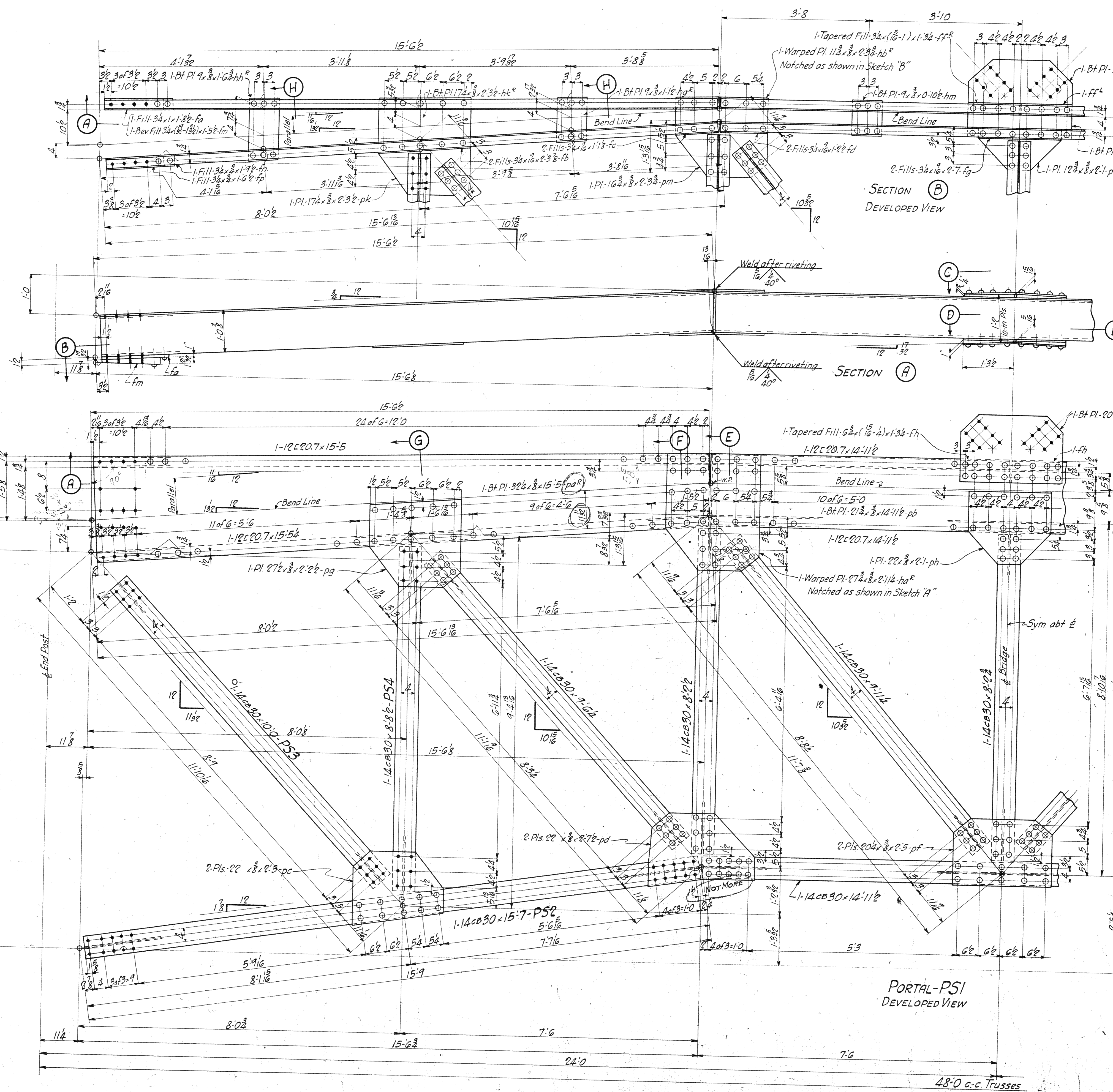
Rev. 8-15-34
 Rev. 11-23-34
 Rev. 3-1-39

Lorain County, Ohio
 EAST 21st STREET BRIDGE
 Lorain, Ohio

AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT Ambridge PLANT
 WORK FABRICATED AT Ambridge PLANT
 IN CHARGE OF Leughman #2
 DRAW. MADE BY J. J. D. DATE 9/1/34
 DRAW. CHECKED BY V. G. DATE 9/1/34
 ORDER NO. H-2524
 SHEET NO. 113

45678923

BOLTS	
1/2"	3/4"
1"	1 1/4"
1 1/2"	2"
2"	2 1/2"
2 1/2"	3"
3"	3 1/2"
3 1/2"	4"
4"	4 1/2"
4 1/2"	5"
5"	5 1/2"
5 1/2"	6"
6"	6 1/2"
6 1/2"	7"
7"	7 1/2"
7 1/2"	8"
8"	8 1/2"
8 1/2"	9"
9"	9 1/2"
9 1/2"	10"
10"	10 1/2"
10 1/2"	11"
11"	11 1/2"
11 1/2"	12"
12"	12 1/2"
12 1/2"	13"
13"	13 1/2"
13 1/2"	14"
14"	14 1/2"
14 1/2"	15"
15"	15 1/2"
15 1/2"	16"
16"	16 1/2"
16 1/2"	17"
17"	17 1/2"
17 1/2"	18"
18"	18 1/2"
18 1/2"	19"
19"	19 1/2"
19 1/2"	20"
20"	20 1/2"
20 1/2"	21"
21"	21 1/2"
21 1/2"	22"
22"	22 1/2"
22 1/2"	23"
23"	23 1/2"
23 1/2"	24"
24"	24 1/2"
24 1/2"	25"
25"	25 1/2"
25 1/2"	26"
26"	26 1/2"
26 1/2"	27"
27"	27 1/2"
27 1/2"	28"
28"	28 1/2"
28 1/2"	29"
29"	29 1/2"
29 1/2"	30"
30"	30 1/2"
30 1/2"	31"
31"	31 1/2"
31 1/2"	32"
32"	32 1/2"
32 1/2"	33"
33"	33 1/2"
33 1/2"	34"
34"	34 1/2"
34 1/2"	35"
35"	35 1/2"
35 1/2"	36"
36"	36 1/2"
36 1/2"	37"
37"	37 1/2"
37 1/2"	38"
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38 1/2"	39"
39"	39 1/2"
39 1/2"	40"
40"	40 1/2"
40 1/2"	41"
41"	41 1/2"
41 1/2"	42"
42"	42 1/2"
42 1/2"	43"
43"	43 1/2"
43 1/2"	44"
44"	44 1/2"
44 1/2"	45"
45"	45 1/2"
45 1/2"	46"
46"	46 1/2"
46 1/2"	47"
47"	47 1/2"
47 1/2"	48"
48"	48 1/2"
48 1/2"	49"
49"	49 1/2"
49 1/2"	50"
50"	50 1/2"
50 1/2"	51"
51"	51 1/2"
51 1/2"	52"
52"	52 1/2"
52 1/2"	53"
53"	53 1/2"
53 1/2"	54"
54"	54 1/2"
54 1/2"	55"
55"	55 1/2"
55 1/2"	56"
56"	56 1/2"
56 1/2"	57"
57"	57 1/2"
57 1/2"	58"
58"	58 1/2"
58 1/2"	59"
59"	59 1/2"
59 1/2"	60"
60"	60 1/2"
60 1/2"	61"
61"	61 1/2"
61 1/2"	62"
62"	62 1/2"
62 1/2"	63"
63"	63 1/2"
63 1/2"	64"
64"	64 1/2"
64 1/2"	65"
65"	65 1/2"
65 1/2"	66"
66"	66 1/2"
66 1/2"	67"
67"	67 1/2"
67 1/2"	68"
68"	68 1/2"
68 1/2"	69"
69"	69 1/2"
69 1/2"	70"
70"	70 1/2"
70 1/2"	71"
71"	71 1/2"
71 1/2"	72"
72"	72 1/2"
72 1/2"	73"
73"	73 1/2"
73 1/2"	74"
74"	74 1/2"
74 1/2"	75"
75"	75 1/2"
75 1/2"	76"
76"	76 1/2"
76 1/2"	77"
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92"	92 1/2"
92 1/2"	93"
93"	93 1/2"
93 1/2"	94"
94"	94 1/2"
94 1/2"	95"
95"	95 1/2"
95 1/2"	96"
96"	96 1/2"
96 1/2"	97"
97"	97 1/2"
97 1/2"	98"
98"	98 1/2"
98 1/2"	99"
99"	99 1/2"
99 1/2"	100"



SPAN	SPAN	REQUIRED		
Div 4	Div 1	Total	Description	Mark
1	1	2	PORTAL SECT.	PS1
2	2	4	"	PS2
2	2	4	"	PS3
2	2	4	"	PS4

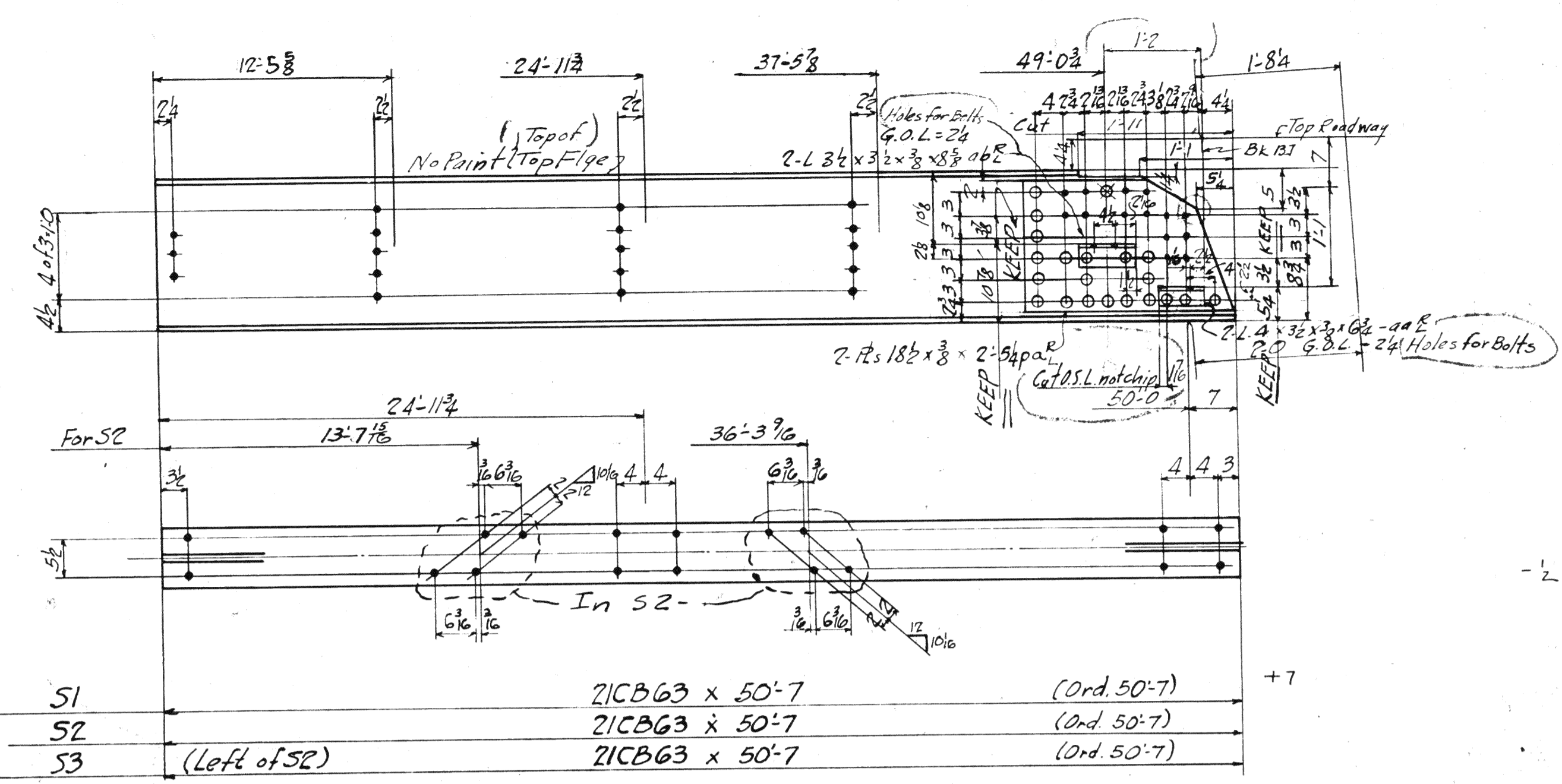
MATERIAL: C. H. Steel A. S. T. M. A7-38
 Copper bearing 0.20 min. copper content
 SPECIFICATIONS: special by Millour
 Watson & Associates also Ohio State
 Highway
 INSPECTION:
 ERECTION: A. B. Co.
 RIVETS: 3/8 Unless noted. Open Holes: 1/8 Unless noted.

Lorain County, Ohio
 EAST 21st STREET BRIDGE
 Lorain, Ohio
 AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT AMB PLANT.
 WORK FABRICATED AT AMB PLANT.
 IN CHARGE OF LOUGHMAN #2
 DRAW. MADE BY D.G.R.-W.W. DATE 5-9-39
 DRAW. CHECKED BY B.L.L. DATE 5-19-39
 ORDER NO. H2584 SHEET NO. 172

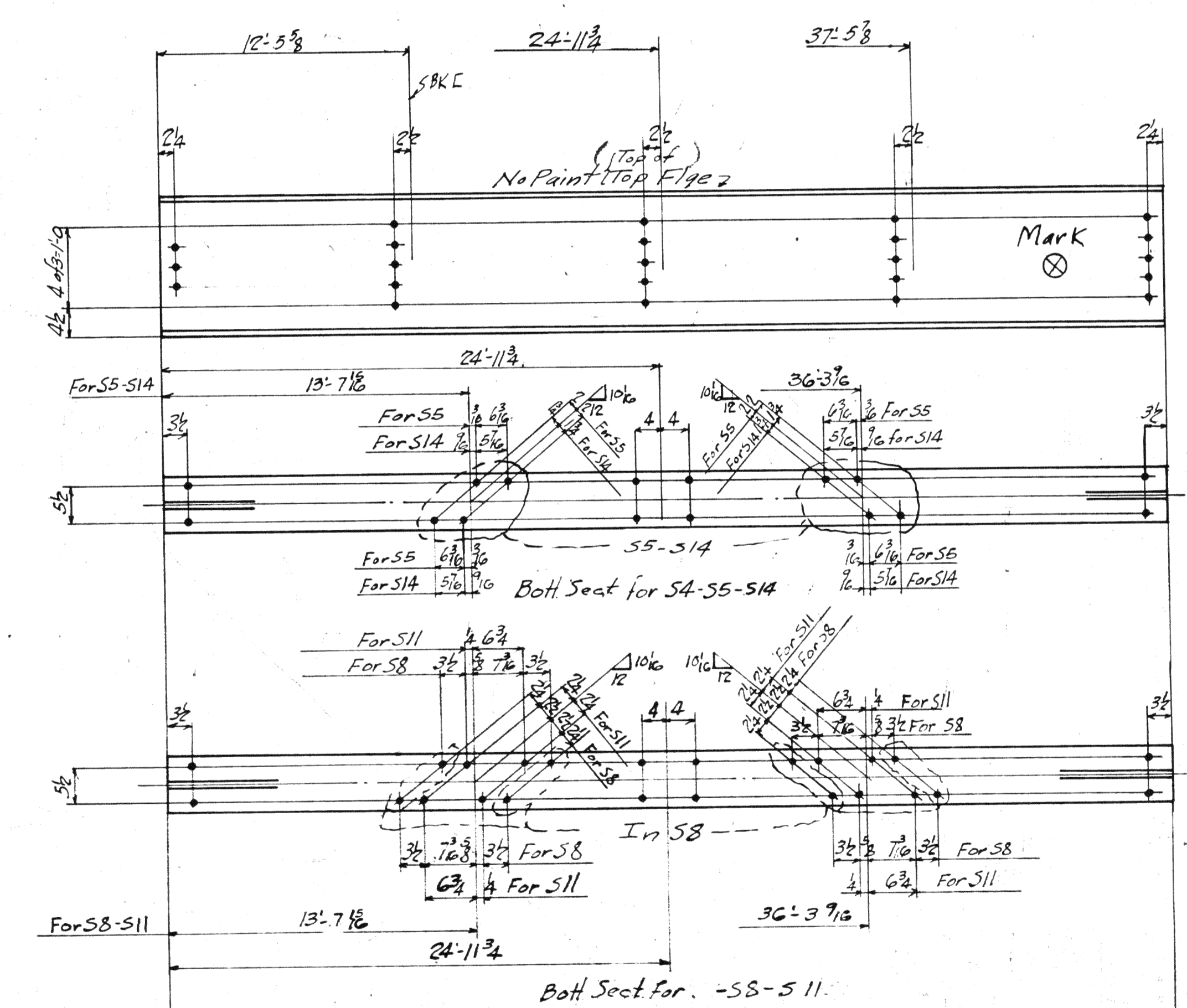
12

Rev 7-10-39

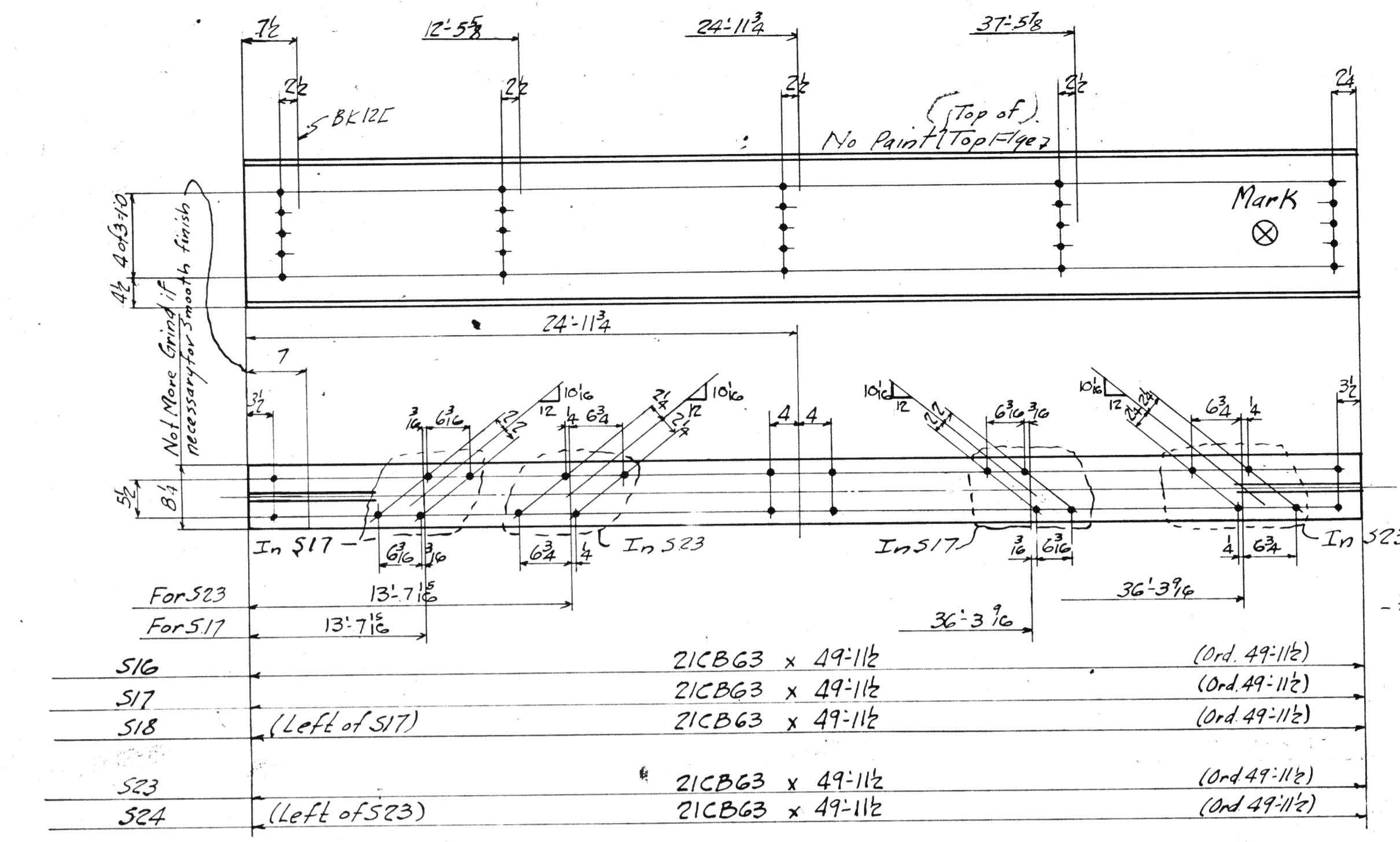
BOLTS		RIVETS		RIVETS		RIVETS		RIVETS		RIVETS	
Size	Head	Size	Head	Size	Head	Size	Head	Size	Head	Size	Head



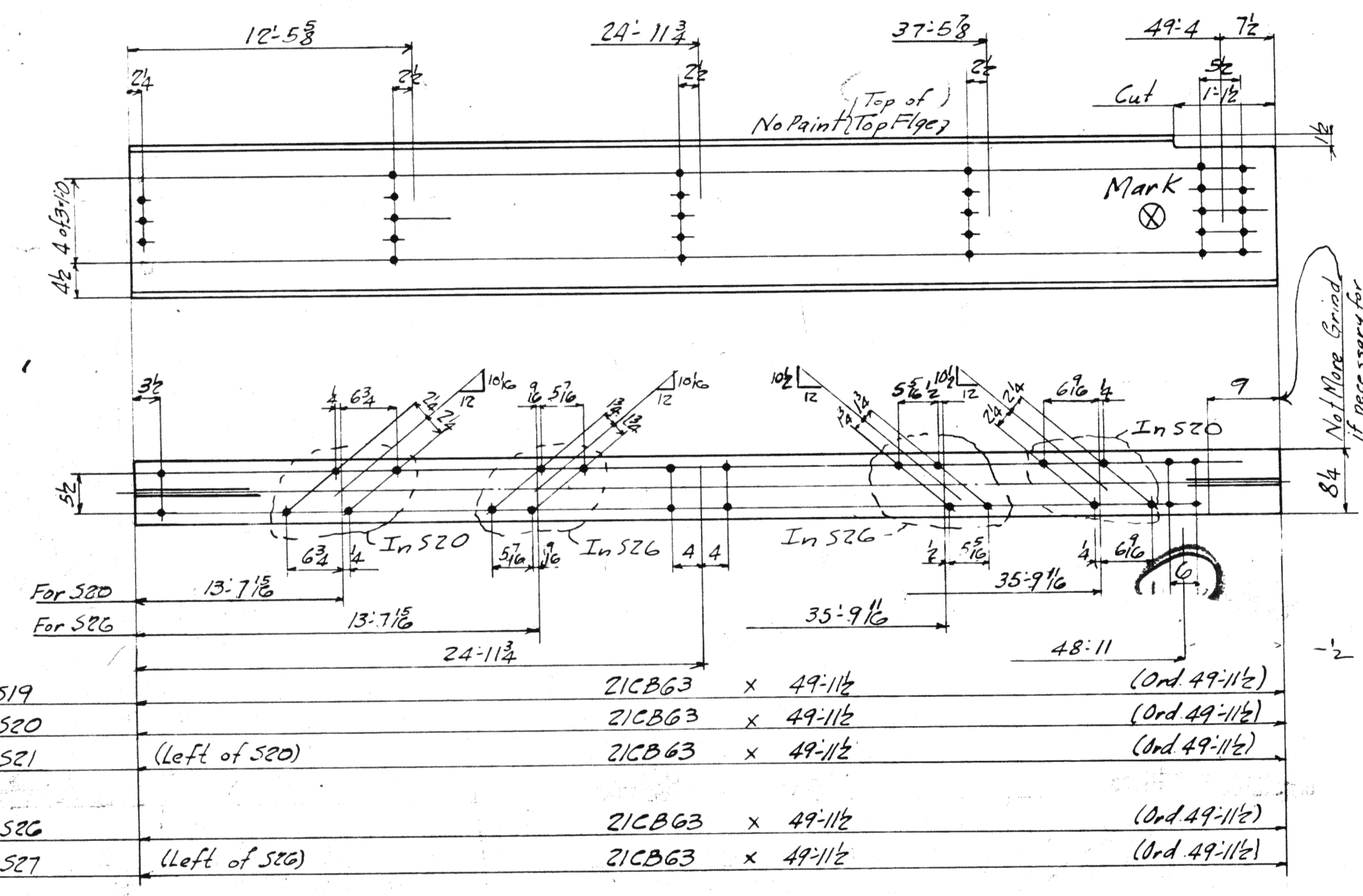
S1	21CB63 x 50'-7	(Ord. 50'-7)	+7
S2	21CB63 x 50'-7	(Ord. 50'-7)	
S3	(Left of S2)	21CB63 x 50'-7	



S4	21CB63 x 49'-11 1/2	(Ord. 49'-11 1/2)	
S5	21CB63 x 49'-11 1/2	(Ord. 49'-11 1/2)	
S6	(Left of S5)	21CB63 x 49'-11 1/2	
S8	21CB63 x 49'-11 1/2	(Ord. 49'-11 1/2)	
S9	(Left of S8)	21CB63 x 49'-11 1/2	
S11	21CB63 x 49'-11 1/2	(Ord. 49'-11 1/2)	
S12	(Left of S11)	21CB63 x 49'-11 1/2	
S14	21CB63 x 49'-11 1/2	(Ord. 49'-11 1/2)	
S15	(Left of S14)	21CB63 x 49'-11 1/2	



S16	21CB63 x 49'-11 1/2	(Ord. 49'-11 1/2)	
S17	21CB63 x 49'-11 1/2	(Ord. 49'-11 1/2)	
S18	(Left of S17)	21CB63 x 49'-11 1/2	
S23	21CB63 x 49'-11 1/2	(Ord. 49'-11 1/2)	
S24	(Left of S23)	21CB63 x 49'-11 1/2	



S19	21CB63 x 49'-11 1/2	(Ord. 49'-11 1/2)	
S20	21CB63 x 49'-11 1/2	(Ord. 49'-11 1/2)	
S21	(Left of S20)	21CB63 x 49'-11 1/2	
S26	21CB63 x 49'-11 1/2	(Ord. 49'-11 1/2)	
S27	(Left of S26)	21CB63 x 49'-11 1/2	

					REQUIRED		
Div. 1	Div. 2	Div. 4	Div. B	Div. C	Total No.	Description	Mark
4	4				8	Beams	S1
1	1				2	do	S2
1	1				2	do	S3
4	16	16	4	16	56	do	S4
1	1				2	do	S5
1	1				2	do	S6
1	1				2	do	S8
1	1				2	do	S9
2	1	2	2	5	5	do	S11
2	1	2	2	5	5	do	S12
1	3	1	1	5	5	do	S14
1	3	1	1	5	5	do	S15
4	4	4	4	16	16	do	S16
1	1			2	2	do	S17
1	1			2	2	do	S18
8		8	16	16	16	do	S19
1	1			2	2	do	S20
1	1			2	2	do	S21
1	1			2	2	do	S23
1	1			2	2	do	S24
1	1			2	2	do	S26
1	1			2	2	do	S27

STRINGERS

MATERIAL: O.H. Steel A.S.T.M. A7-36
 Copper bearing 0.20 min. copper content
 SPECIFICATIONS: Special by Wilbur Watson & Associates also Ohio State Highway
 INSPECTION: James H. Herron Co.
 ERECTION: A.B.Co.
 RIVETS: 8 unless noted
 OPEN HOLES: 1/8 unless noted
 REAMING: All holes punched full size except in material more than 8 thick shall be drilled.
 PAINT: Yes Except as Noted
 CONTACT SURFACES: No Shop & Field

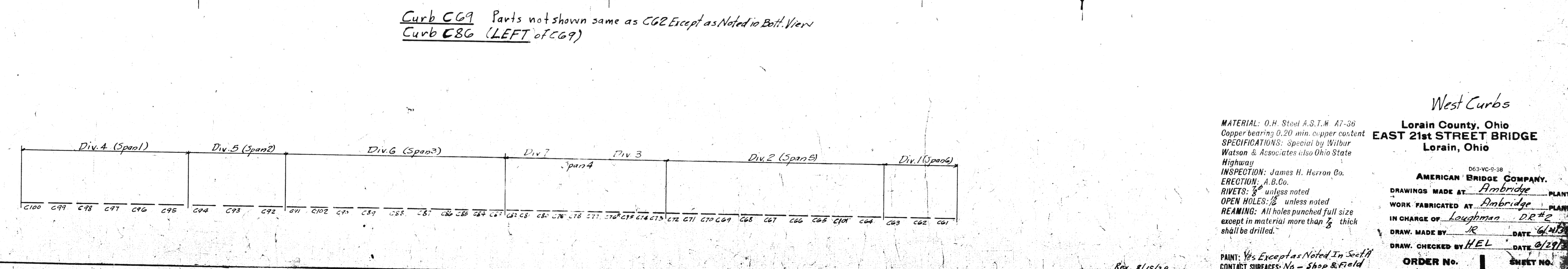
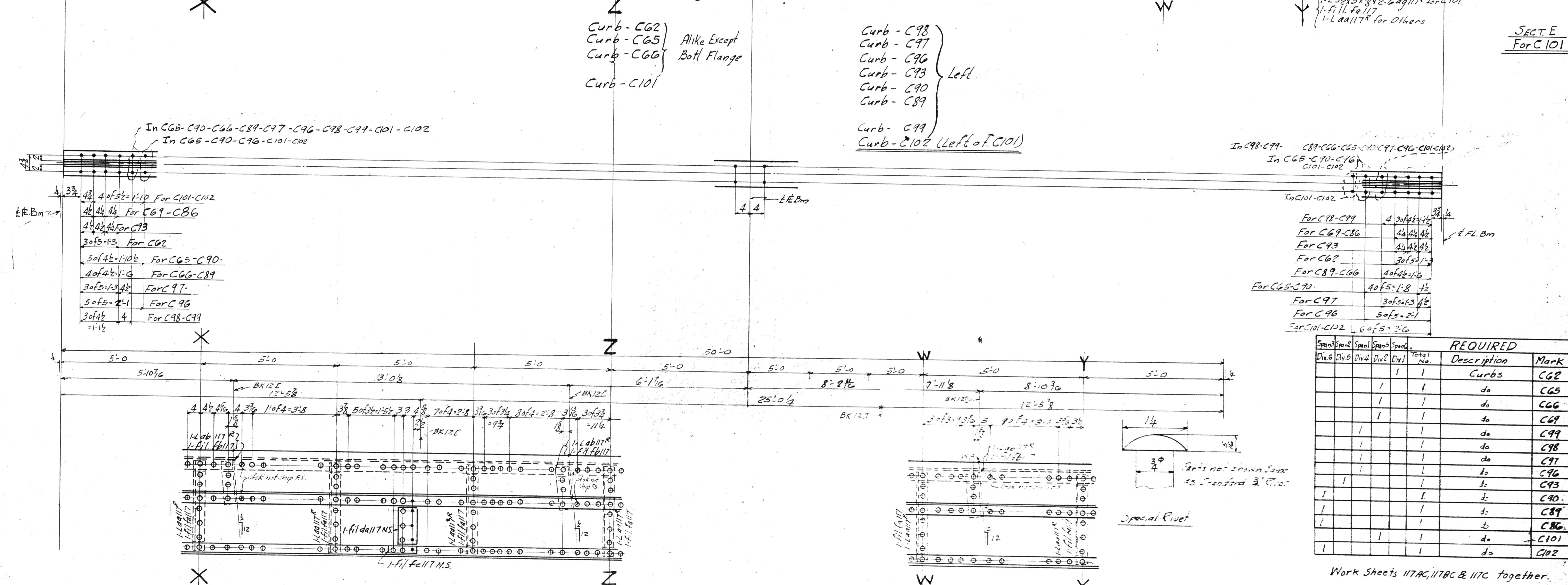
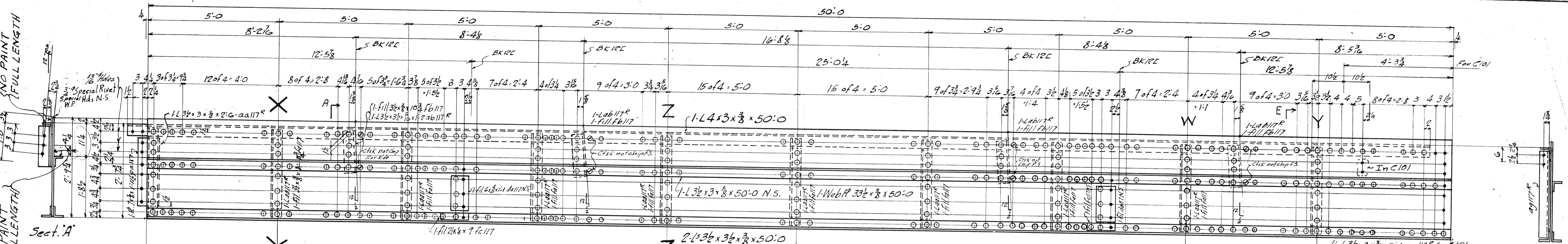
Lorain County, Ohio
EAST 21st STREET BRIDGE
 Lorain, Ohio

DESIGNED BY
AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT *Ambridge*
 WORK FABRICATED AT *Ambridge*
 IN CHARGE OF *Loughman D.R.*
 DRAW. MADE BY *JR* DATE
 DRAW. CHECKED BY *JFB* DATE

ORDER No. **H2524**

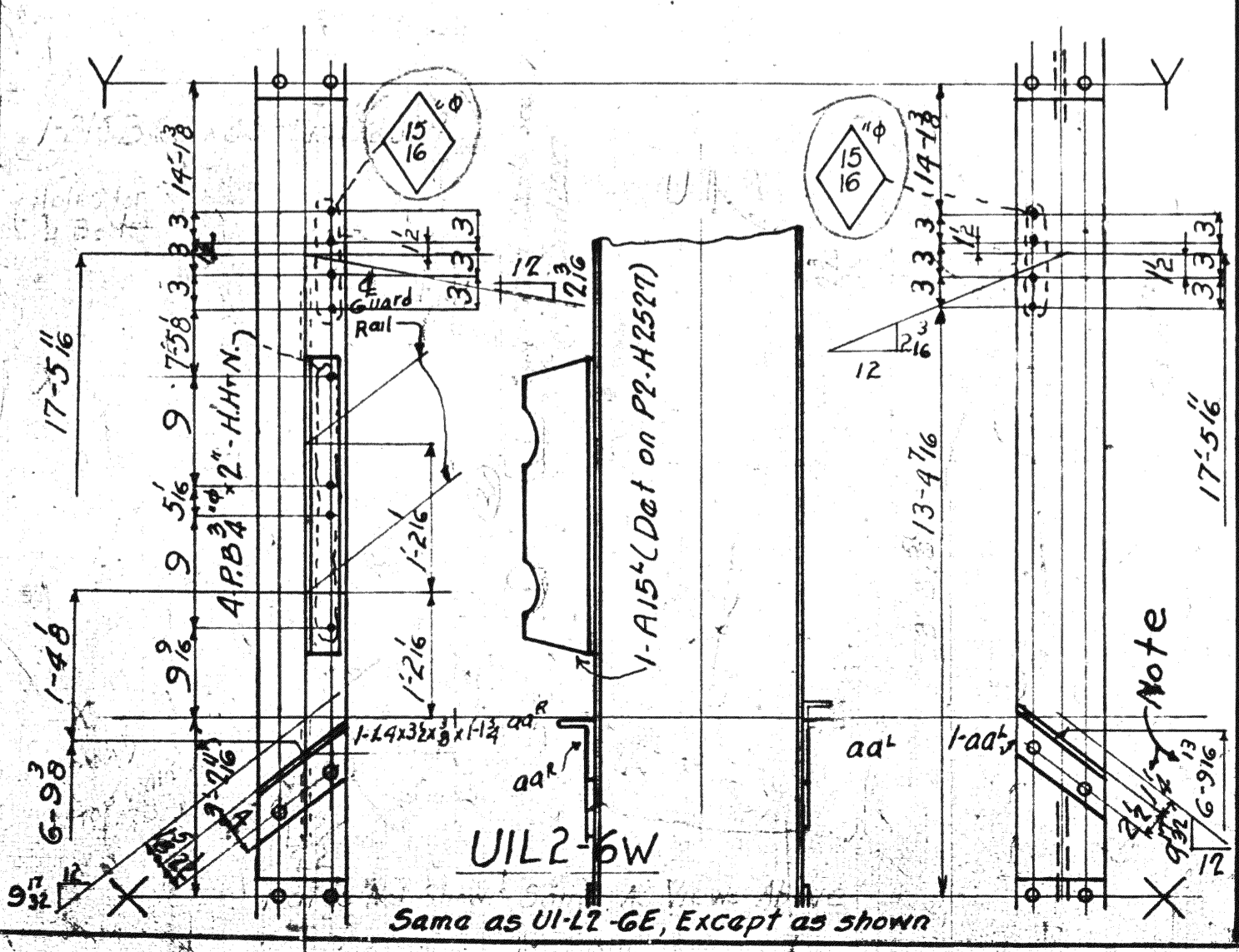
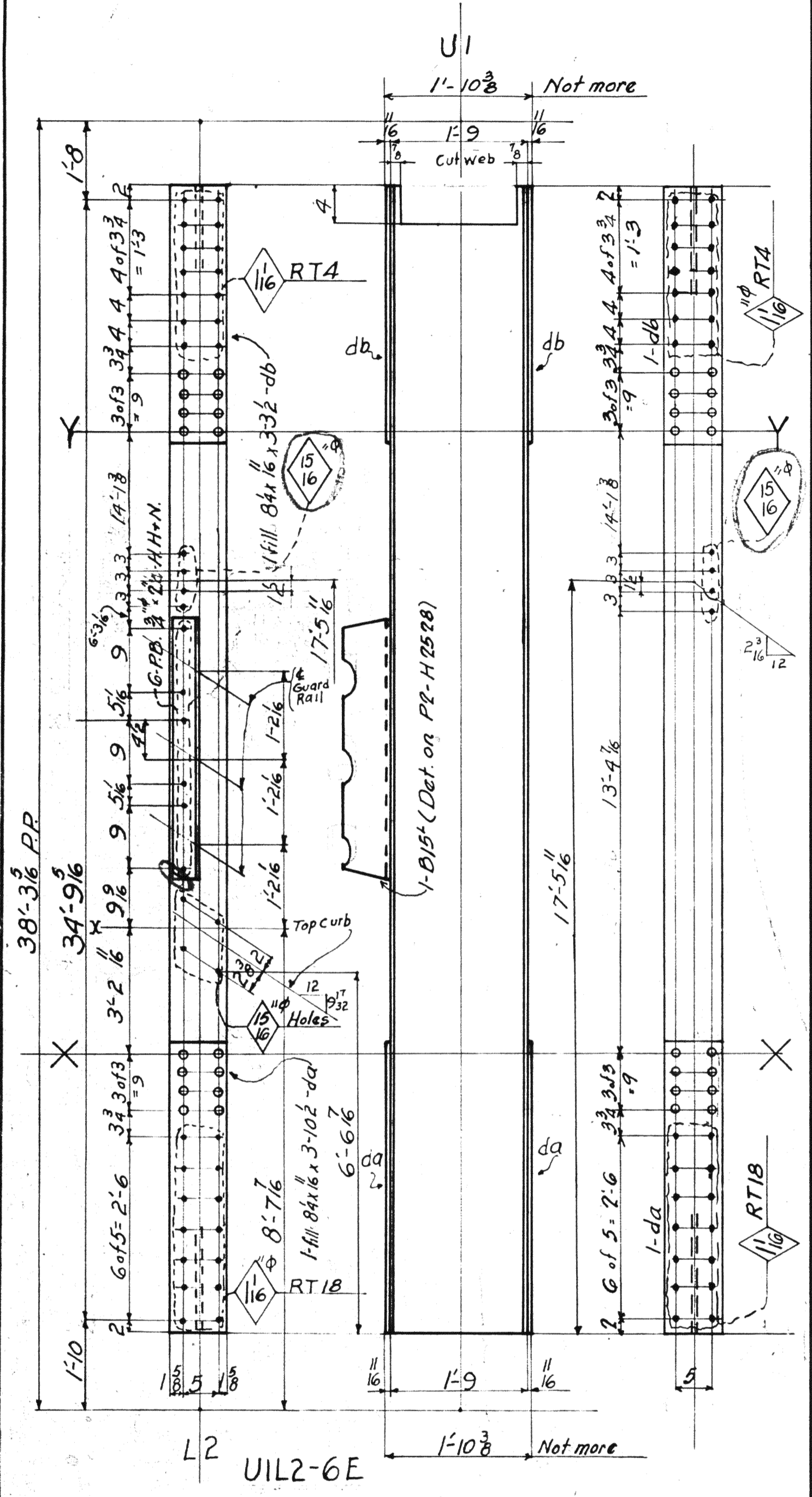
7 Rev. 7-26-39

BOLTS	
1/2"	1/2"
3/4"	3/4"
1"	1"
1 1/4"	1 1/4"
1 1/2"	1 1/2"
2"	2"
2 1/2"	2 1/2"
3"	3"
3 1/2"	3 1/2"
4"	4"
4 1/2"	4 1/2"
5"	5"
5 1/2"	5 1/2"
6"	6"
6 1/2"	6 1/2"
7"	7"
7 1/2"	7 1/2"
8"	8"
8 1/2"	8 1/2"
9"	9"
9 1/2"	9 1/2"
10"	10"
10 1/2"	10 1/2"
11"	11"
11 1/2"	11 1/2"
12"	12"
12 1/2"	12 1/2"
13"	13"
13 1/2"	13 1/2"
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14 1/2"	14 1/2"
15"	15"
15 1/2"	15 1/2"
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40 1/2"	40 1/2"
41"	41"
41 1/2"	41 1/2"
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42 1/2"	42 1/2"
43"	43"
43 1/2"	43 1/2"
44"	44"
44 1/2"	44 1/2"
45"	45"
45 1/2"	45 1/2"
46"	46"
46 1/2"	46 1/2"
47"	47"
47 1/2"	47 1/2"
48"	48"
48 1/2"	48 1/2"
49"	49"
49 1/2"	49 1/2"
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50 1/2"	50 1/2"
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65 1/2"	65 1/2"
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66 1/2"	66 1/2"
67"	67"
67 1/2"	67 1/2"
68"	68"
68 1/2"	68 1/2"
69"	69"
69 1/2"	69 1/2"
70"	70"
70 1/2"	70 1/2"
71"	71"
71 1/2"	71 1/2"
72"	72"
72 1/2"	72 1/2"
73"	73"
73 1/2"	73 1/2"
74"	74"
74 1/2"	74 1/2"
75"	75"
75 1/2"	75 1/2"
76"	76"
76 1/2"	76 1/2"
77"	77"
77 1/2"	77 1/2"
78"	78"
78 1/2"	78 1/2"
79"	79"
79 1/2"	79 1/2"
80"	80"
80 1/2"	80 1/2"
81"	81"
81 1/2"	81 1/2"
82"	82"
82 1/2"	82 1/2"
83"	83"
83 1/2"	83 1/2"
84"	84"
84 1/2"	84 1/2"
85"	85"
85 1/2"	85 1/2"
86"	86"
86 1/2"	86 1/2"
87"	87"
87 1/2"	87 1/2"
88"	88"
88 1/2"	88 1/2"
89"	89"
89 1/2"	89 1/2"
90"	90"
90 1/2"	90 1/2"
91"	91"
91 1/2"	91 1/2"
92"	92"
92 1/2"	92 1/2"
93"	93"
93 1/2"	93 1/2"
94"	94"
94 1/2"	94 1/2"
95"	95"
95 1/2"	95 1/2"
96"	96"
96 1/2"	96 1/2"
97"	97"
97 1/2"	97 1/2"
98"	98"
98 1/2"	98 1/2"
99"	99"
99 1/2"	99 1/2"
100"	100"
100 1/2"	100 1/2"

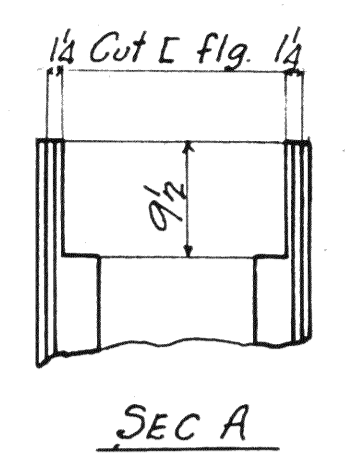
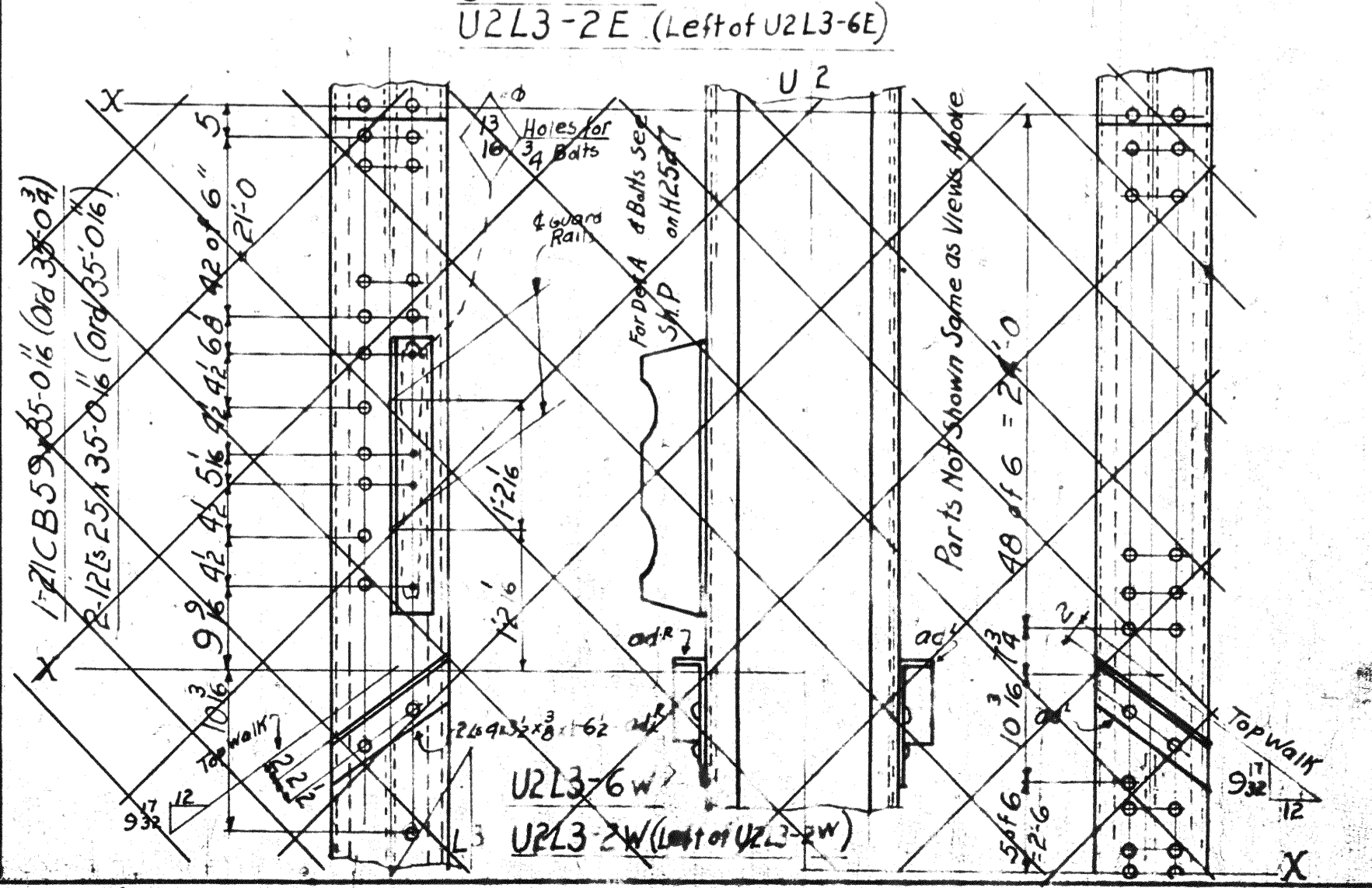
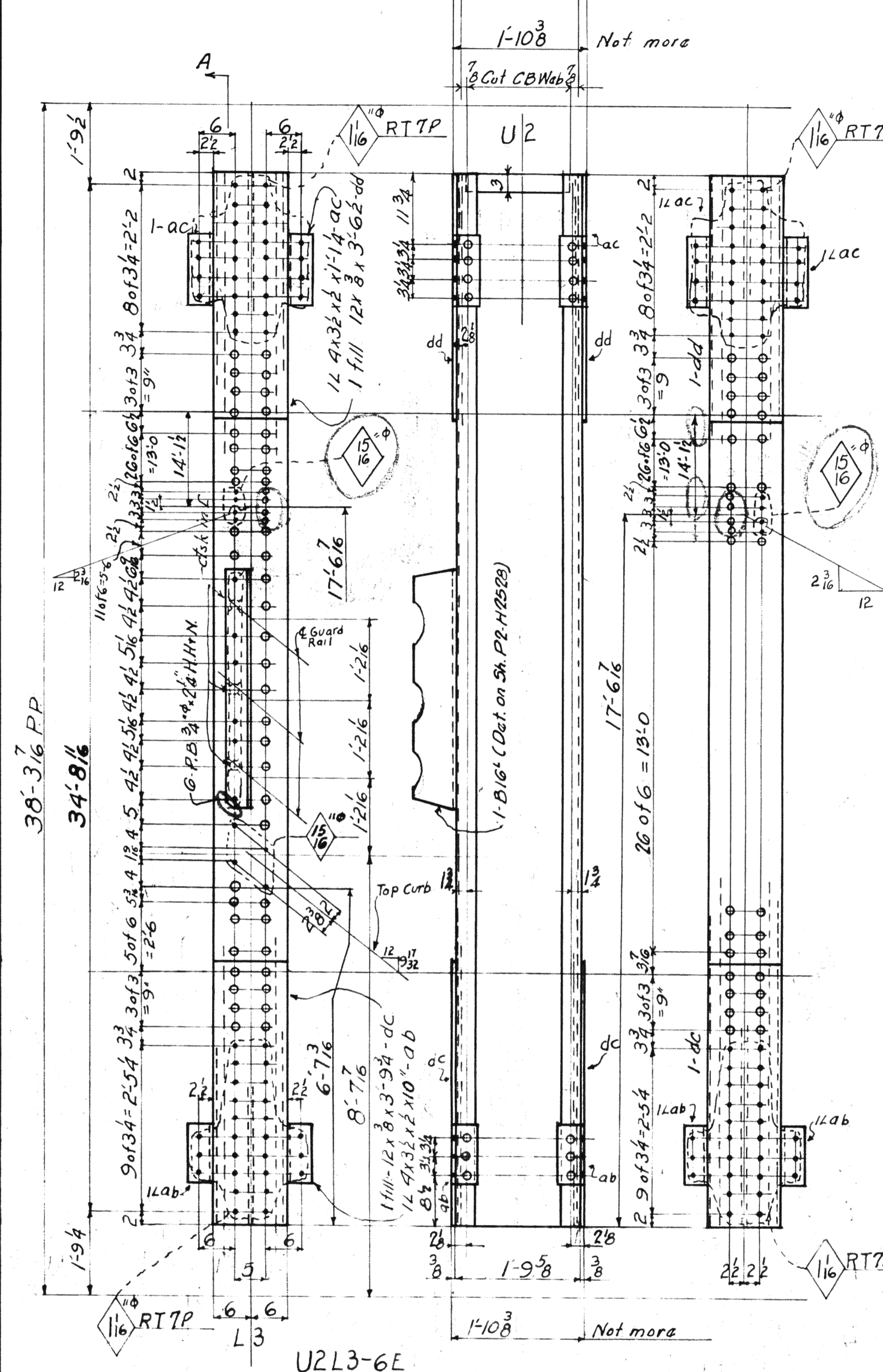


BOLTS		RIVETS		WELDS	
Qty	Size	Qty	Size	Type	Location
1	1/2"	1	1/2"	1/4"	Flange
1	3/8"	1	3/8"	1/4"	Web
1	1/4"	1	1/4"	1/4"	Flange
1	3/16"	1	3/16"	1/4"	Web
1	1/8"	1	1/8"	1/4"	Flange
1	3/32"	1	3/32"	1/4"	Web

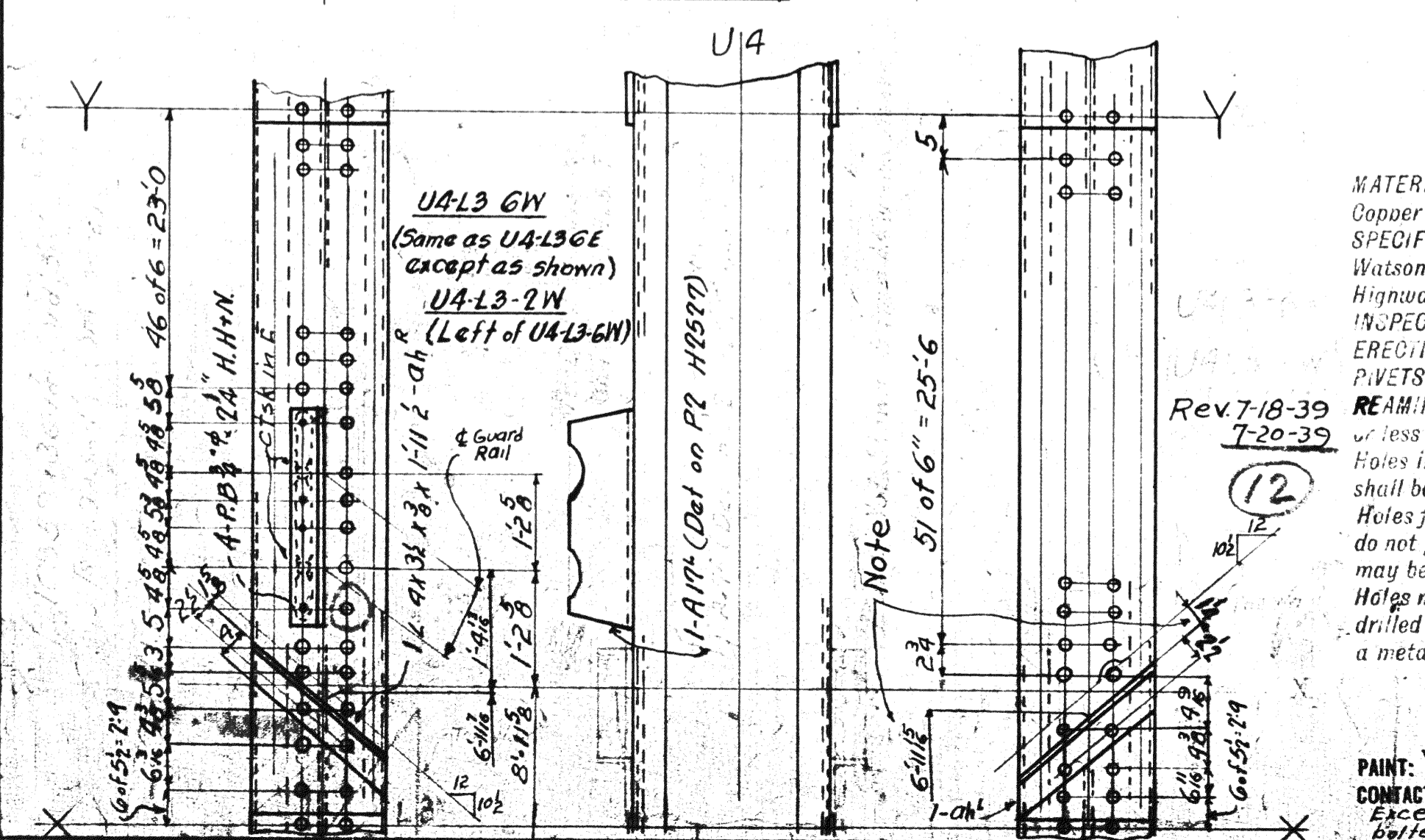
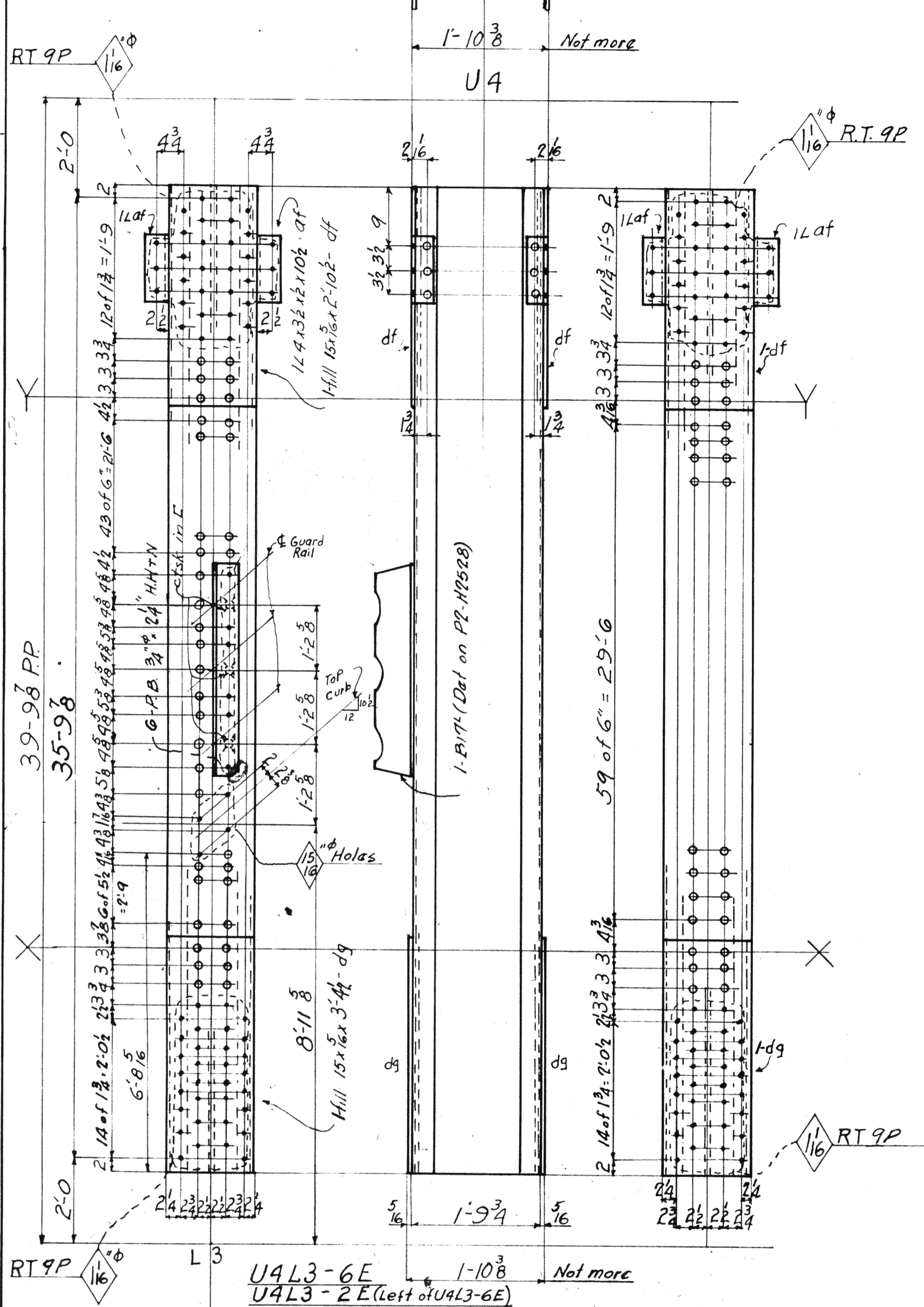
1-2ICB 63 x 35'-1 1/2" (Ord. 35'-1 1/2")



1-2ICB 59 x 35'-0 1/6" (Ord. 35'-0 1/6")
2-12L 25 x 35'-0 1/6" (Ord. 35'-0 1/6")



1-2ICB 59 x 36'-1 1/8" (Ord. 36'-2")
2-15L 33.9 x 36'-1 1/8" (Ord. 36'-2")



Span 2 Span 6		REQUIRED		
DNS	DN1	Total	Description	Mark
	1	1	Diagonals	U1L2-6E
	1	1	do	U1L2-6W
	1	1	do	U2L3-6E
	1	1	do	U2L3-2E
	1	1	do	U4L3-6E
	1	1	do	U4L3-2E
	1	1	do	U4L3-6W
	1	1	do	U4L3-2W

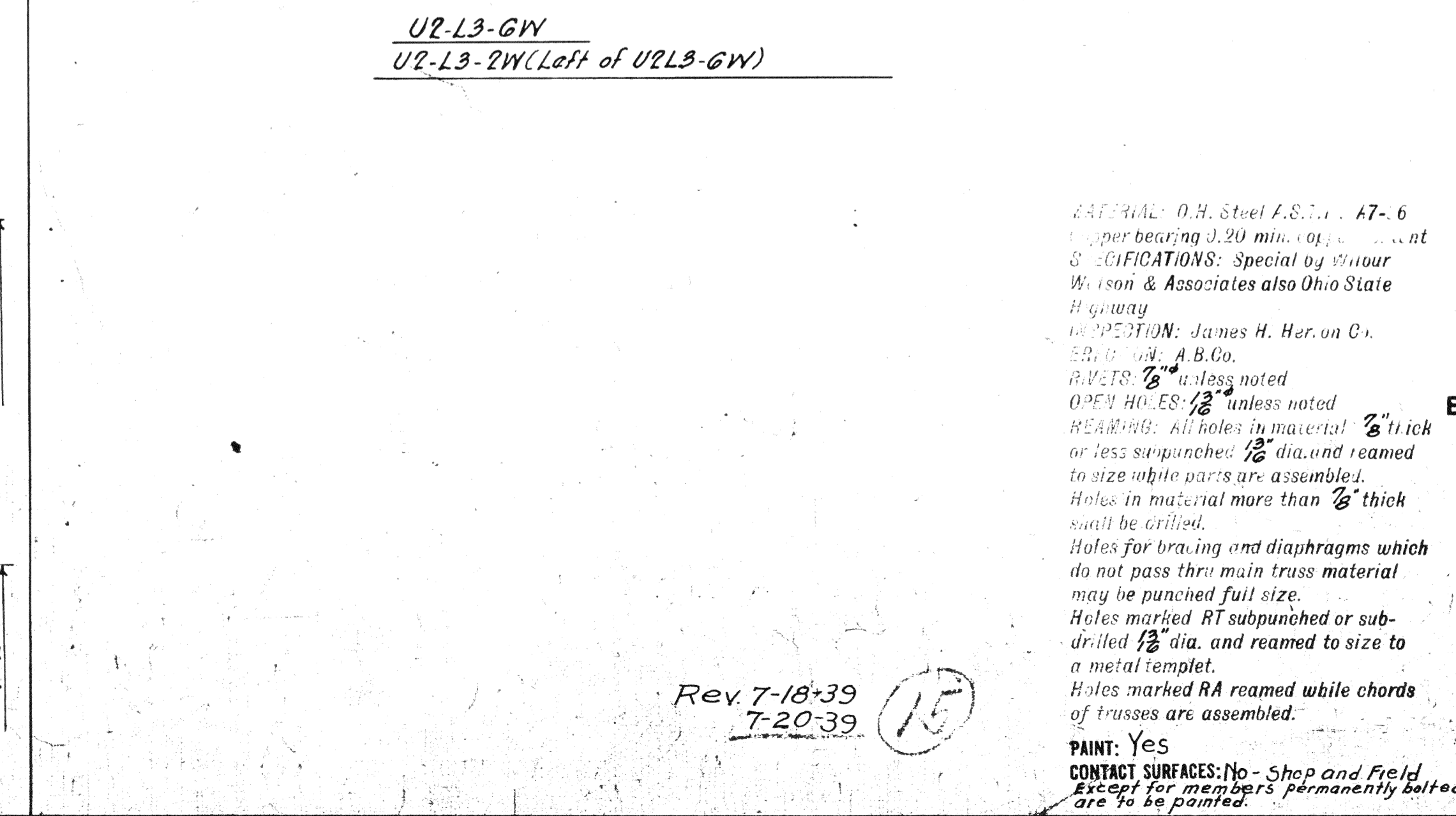
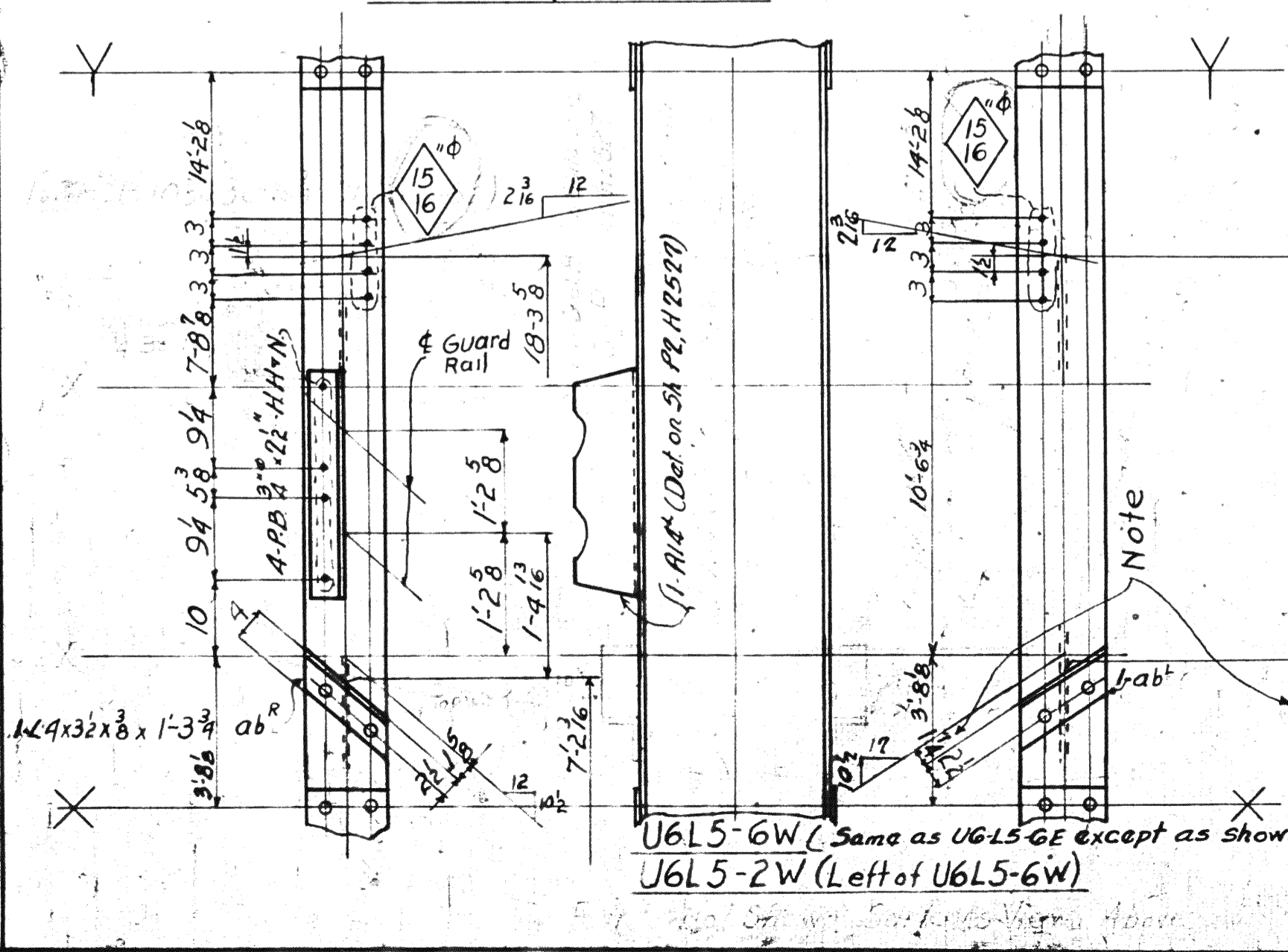
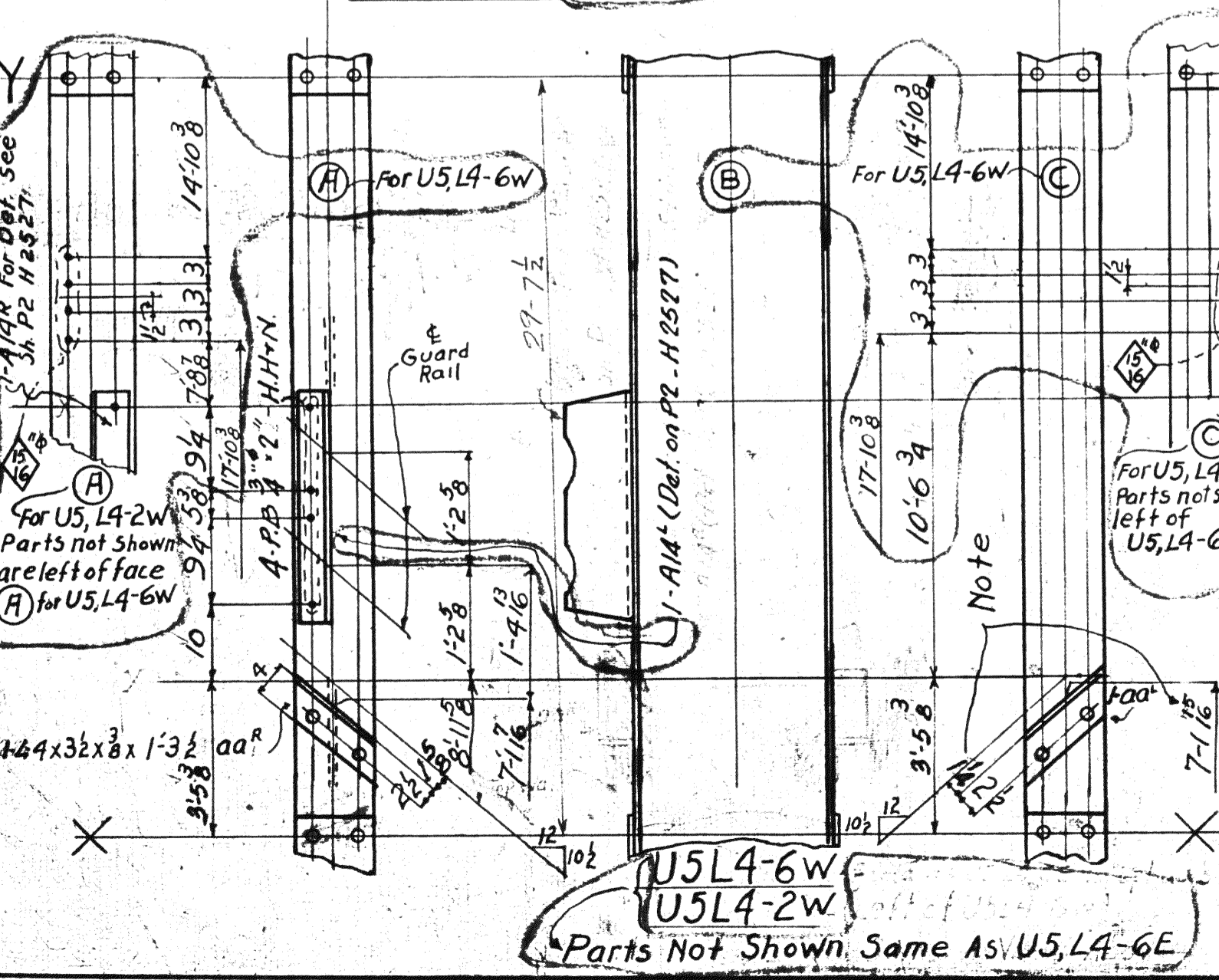
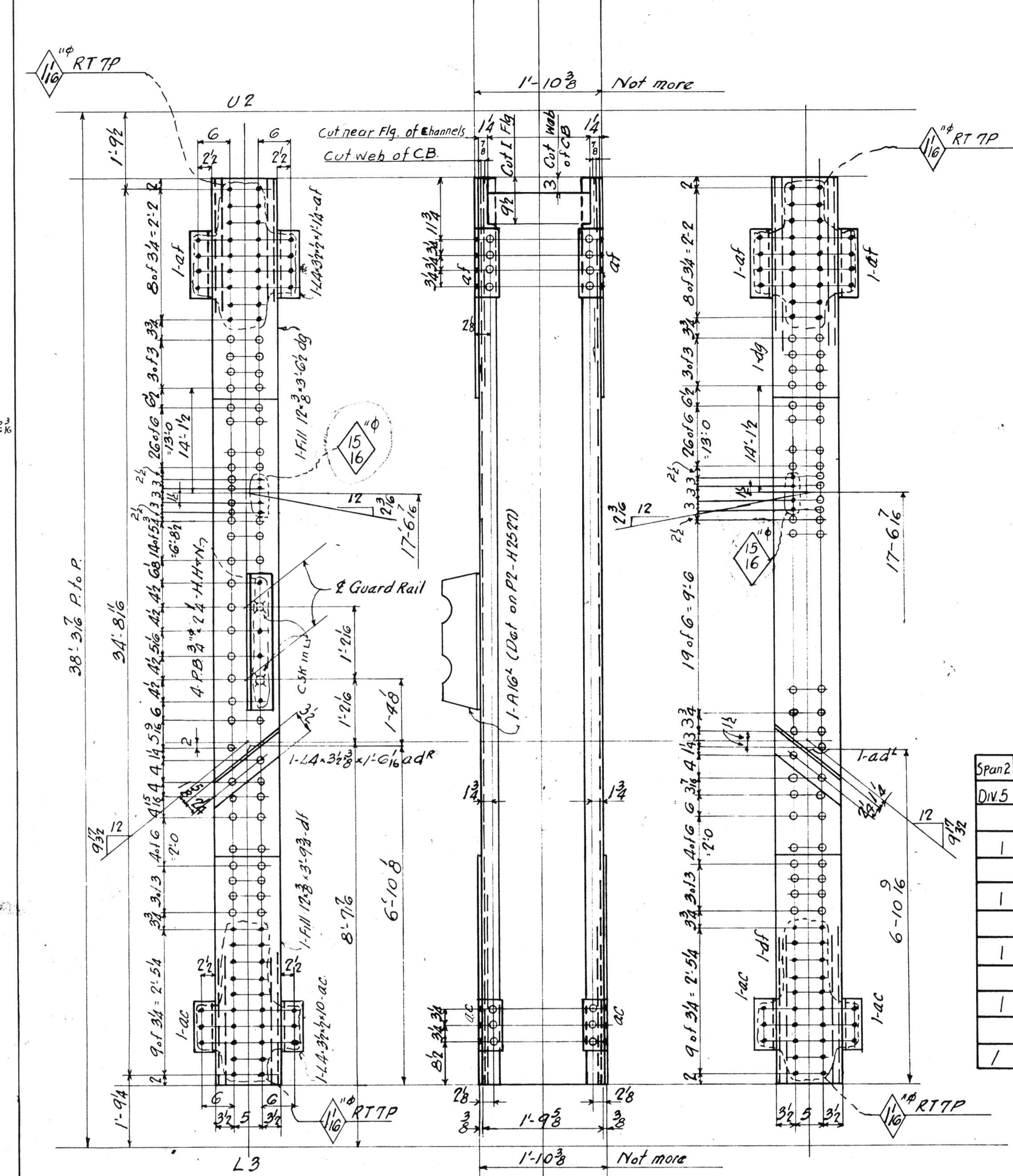
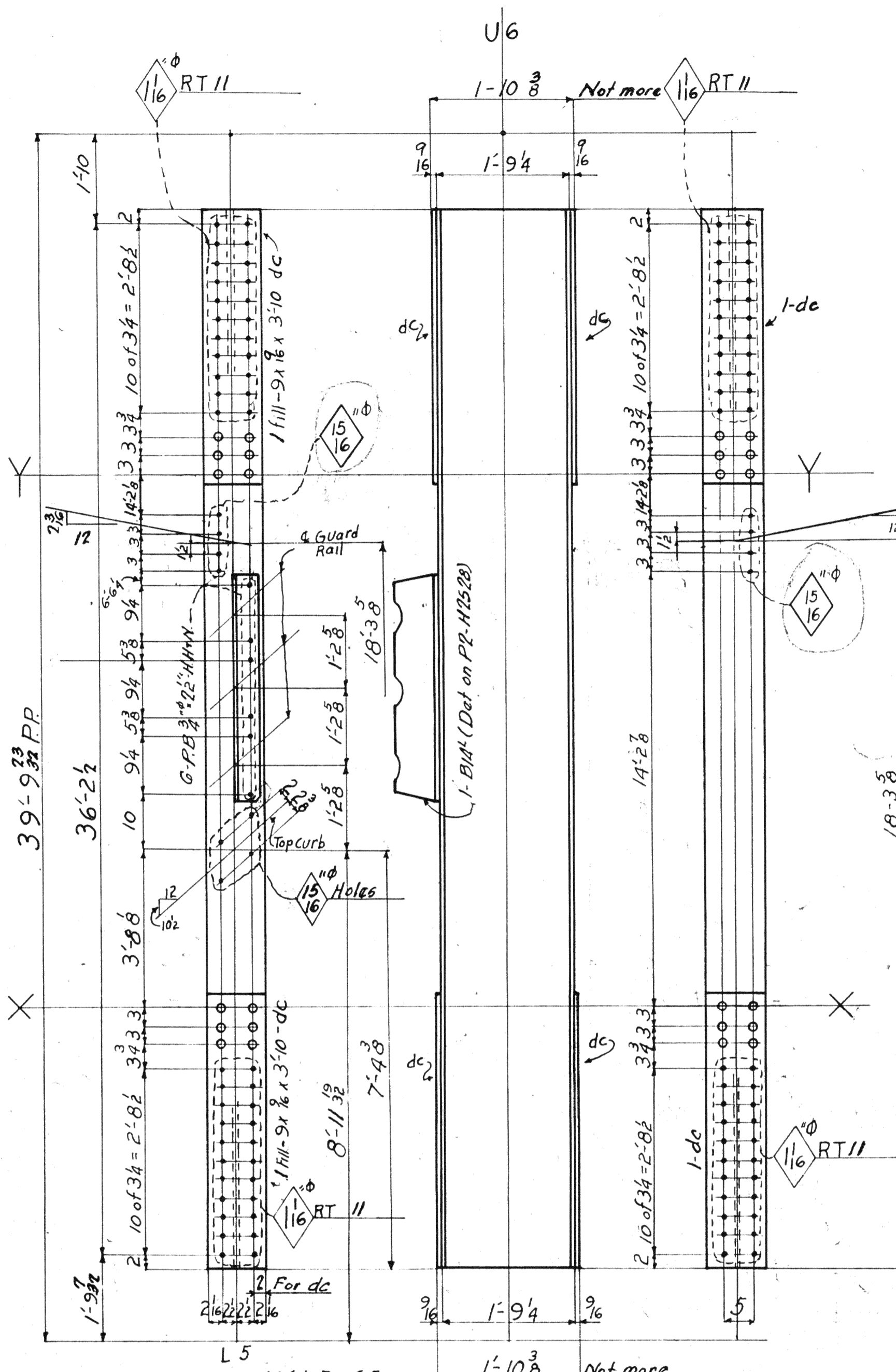
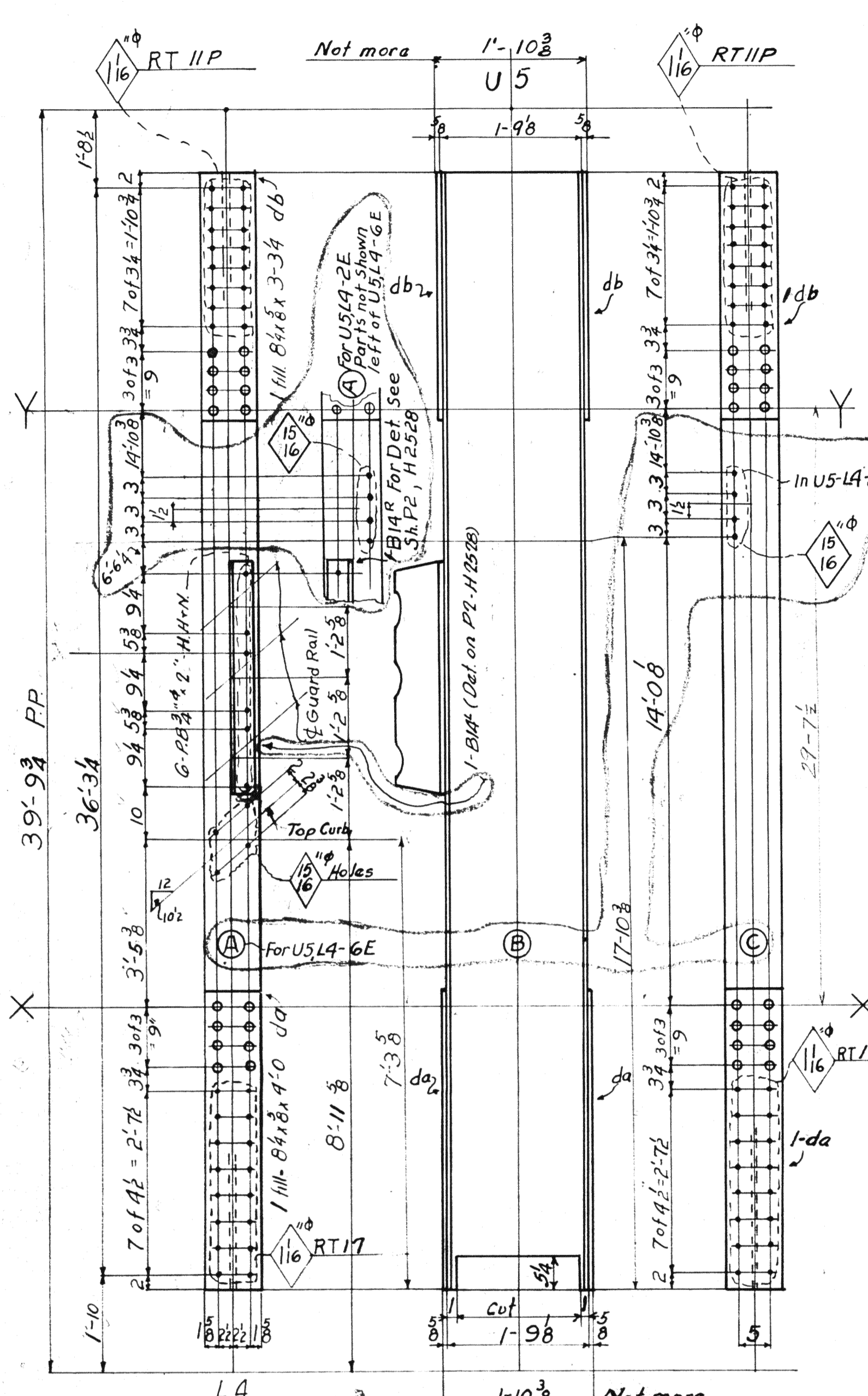
MATERIAL: O.H. Steel A.S.T.M. A7-33
Copper bearing 0.20 min. copper content
SPECIFICATIONS: special by Milour
Watson & Associates also Ohio State
Highway
ERECTION: A.B.Co.
RIVETS: 7/8
Holes 1 1/8 unless noted
REMARKS: All holes in material 7/8 thick
or less shall be punched 1 1/8 and reamed to size.
Holes in material more than 7/8 thick
shall be drilled.
Holes for bracing and diaphragms which
do not pass thru main truss material
may be punched full size.
Holes marked RT: subpunched or sub-
drilled 1/2 dia. and reamed to size to
a metal template.

Lorain County, Ohio
EAST 21st STREET BRIDGE
Lorain, Ohio
AMERICAN BRIDGE COMPANY.
DRAWINGS MADE AT Ambridge PLANT.
WORK FABRICATED AT Ambridge PLANT.
IN CHARGE OF Loughman
DRAW. MADE BY B.A.C. DATE 6-5-39
DRAW. CHECKED BY R.H. DATE 6-26-39
ORDER No. H2524
SHEET No. 121

1-21 CB 68 x 36' 7/4 (Ord 36' 7/4)

1-21 CB 103 x 36' 6 1/2 (Ord 36' 6 1/2)

1-21 CB 59 x 35' 0 1/2 (Ord 35' 0 1/2)
2-12' 10 1/2 x 35' 0 1/2 (Ord 35' 0 1/2)



Span 2		Span 6		REQUIRED	
Div. 5	Div. 1	Total	Description	Mark	
			Diagonals	U5L4-6E	
			do	U5L4-2E	
			do	U5L4-6W	
			do	U5L4-2W	
			do	U6L5-6E	
			do	U6L5-2E	
			do	U6L5-6W	
			do	U6L5-2W	
			do	U2L3-6W	
			do	U2L3-2W	

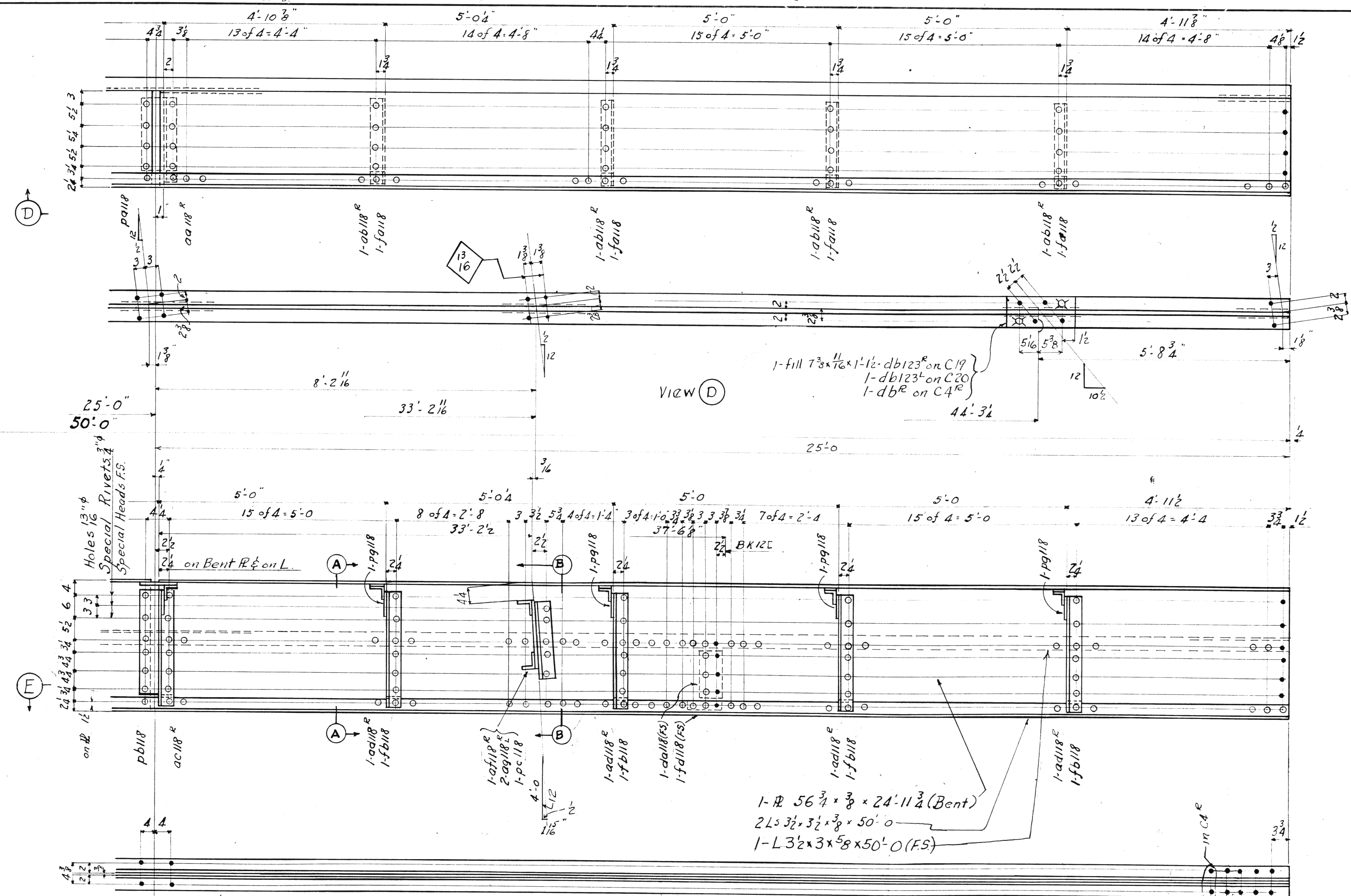
EST. 1914 - D. H. Steel & S. L. A. 7-6
Super bearing 3.20 min. 101
SPECIFICATIONS: Special by
Wilson & Associates also Ohio State
Highway
DESIGNER: James H. Heron on C.
E. B. G. A. B. Co.
RIVETS: 1/2" unless noted
OPEN HOLES: 1/8" unless noted
REMARKS: All holes in material 1/8" thick
or less punched 1/8" dia. and reamed
to size while parts are assembled.
Holes in material more than 1/8" thick
shall be drilled.
Holes for bracing and diaphragms which
do not pass thru main truss material
may be punched full size.
Holes marked RT subpunched or sub-
drilled 1/8" dia. and reamed to size to
a metal template.
Holes marked RA reamed while chords
of trusses are assembled.
PAINT: Yes
CONTACT SURFACES: No - Shop and Field
Except for members permanently bolted
are to be painted.

Lorain County, Ohio
EAST 21st STREET BRIDGE
Lorain, Ohio

AMERICAN BRIDGE COMPANY.
DRAWINGS MADE AT Ambridge PLANT.
WORK FABRICATED AT Ambridge PLANT.
IN CHARGE OF Loughman #2
DRAW. MADE BY B.A.C. DATE 6-6-39
DRAW. CHECKED BY R.P. DATE 6-27-39
ORDER NO. H2524
SHEET NO. 122

Rev. 7-18-39
7-20-39

BOLTS		RIVETS		BOLTS		RIVETS		BOLTS		RIVETS		BOLTS		RIVETS	
Qty	Spec	Qty	Spec	Qty	Spec	Qty	Spec	Qty	Spec	Qty	Spec	Qty	Spec	Qty	Spec



SEC. (E)

5 5 5 2 for C20
 3 of 5 1-3 for C19
 4 of 4 1-6 for C4^R

Span	Span	Span	Span	Required		
Div 6	Div 5	Div 2	Div 1	No	Description	Mark
			1	1	Curb	C19
	1			1	Curb	C20
		1		1	Curb	C4 ^R
1				1	Curb	C4 ^L

East Curb

MATERIAL: O.H. Steel A.S.T.M. A7-36
 Copper bearing 0.20 min. copper content
 SPECIFICATIONS: Special by Wilbur Watson & Associates also Ohio State Highway
 INSPECTION: James H. Herron Co.
 ERECTION: A.B.Co.
 RIVETS: B unless noted
 OPEN HOLES: 1/2 unless noted
 REAMING: All holes punched full size except in material more than 3/8 thick shall be drilled.

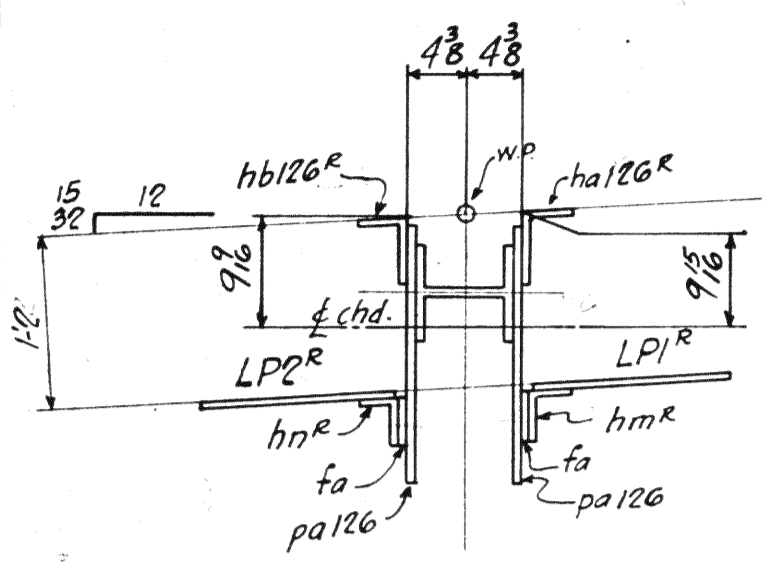
Lorain County, Ohio
EAST 21st STREET BRIDGE
 Lorain, Ohio

AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT Amb PLANT.
 WORK FABRICATED AT Amb PLANT.
 IN CHARGE OF Loughman Dr. No. 2
 DRAW. MADE BY H.R.F. DATE 6-9-39
 DRAW. CHECKED BY HEL DATE 6/27/39

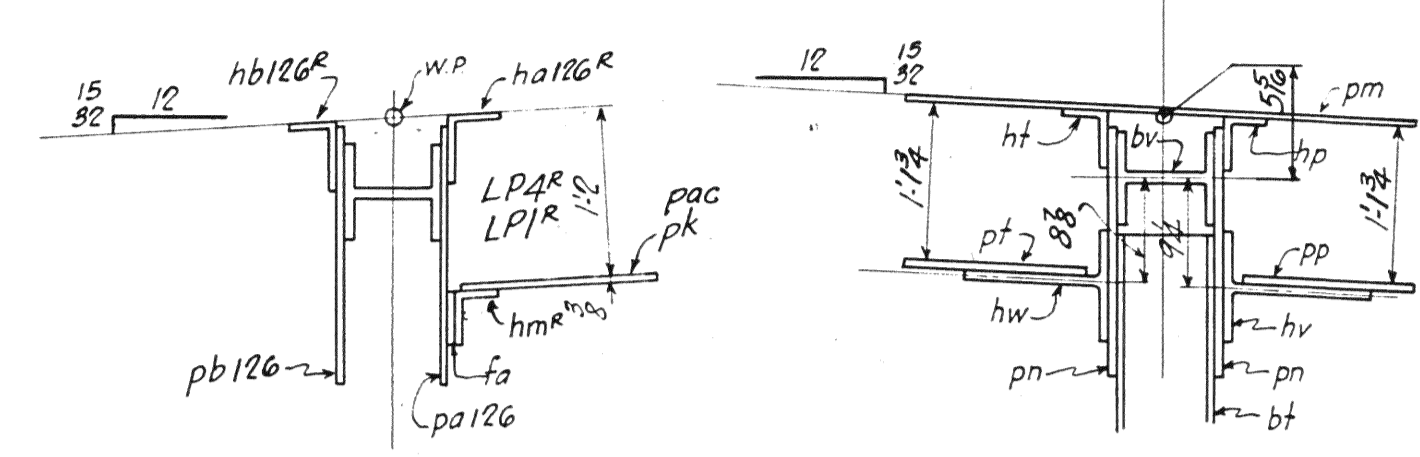
PAIN: Yes-except as shown in Sec. A-A
 CONTACT SURFACES: No 5H124 AB
 (Shop & Field)

ORDER NO. H2524 SHEET NO. 124 B

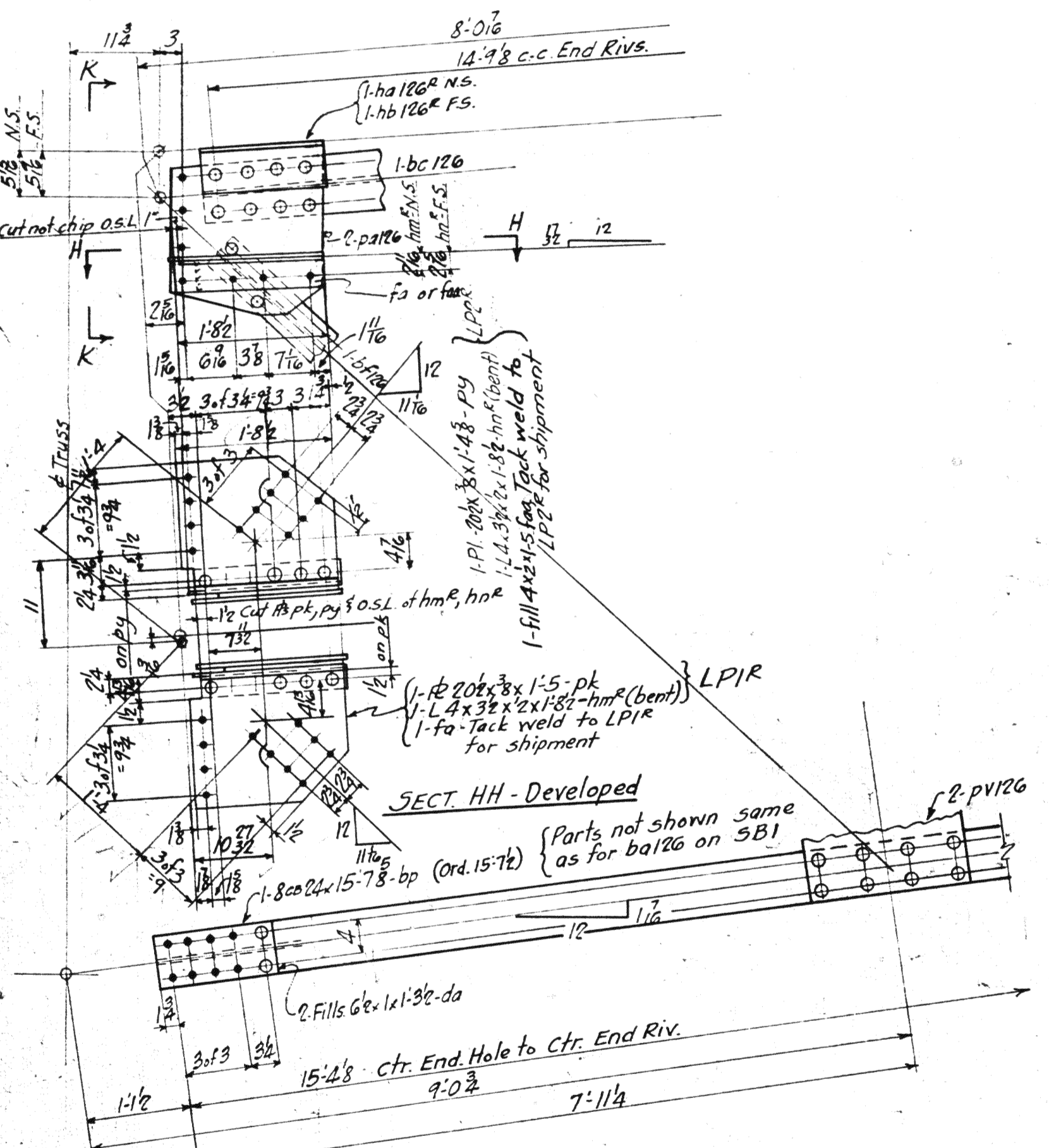
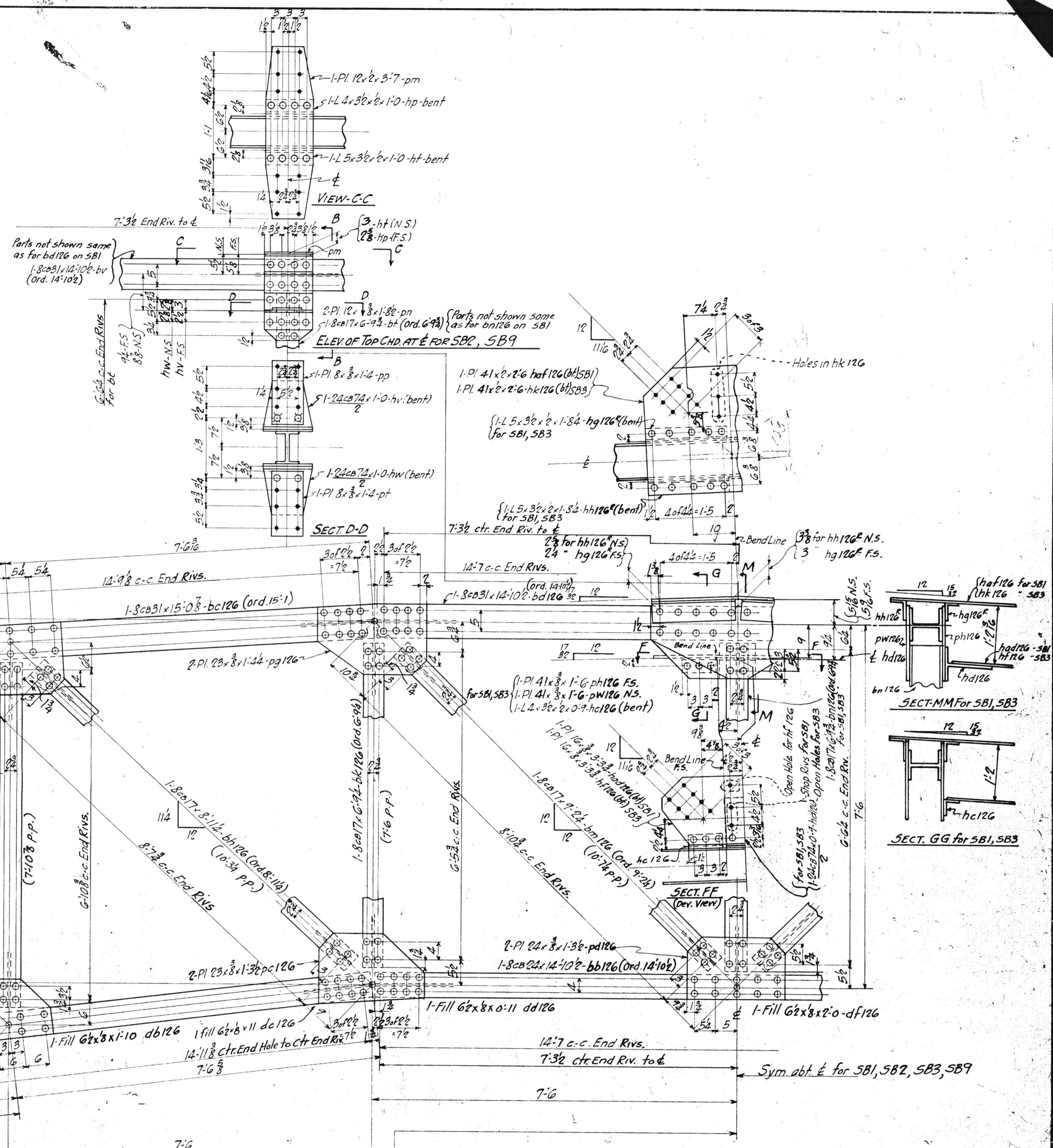
Rev. 8/15/39 Rev. 7/11/39



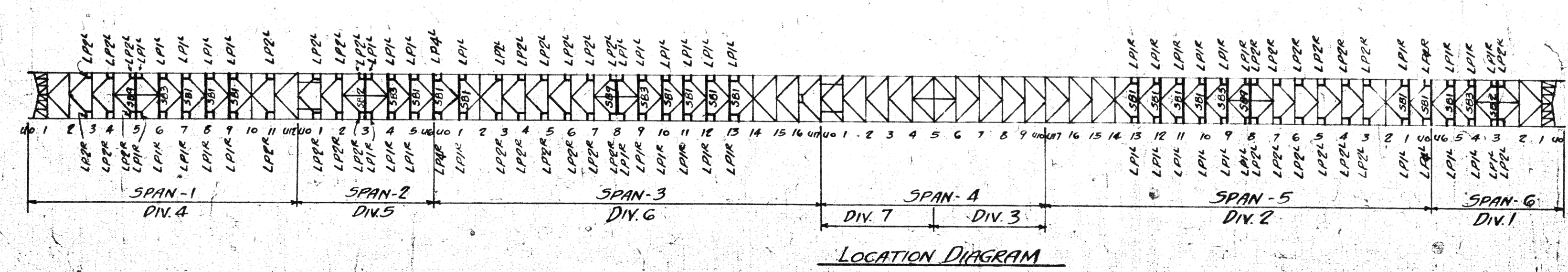
VIEW-KK For SB2
VIEW-AA For SB9



VIEW-A-A For SB1,3
SECT B-B For SB2, SB9



END ELEV. FOR SB2



SWAY BRACE - SB1
 " - SB2 { Same as SB1, except as shown at End and at top chord at E.
 " - SB3 { Same as SB1, except holes in hbl26, hf126 as noted at E.
 " - SB9 { Same as SB1, except as shown at Top Chord at E, Rpa126

-3					-2					-1					-5 SPAN 6					REQUIRED									
															Total					Description					Mark				
															17					Sway Braces					SB1				
															2										SB2				
															3										SB3				
															3										SB9				
															25					Plates					LPP				
															25										LPI				
															20										LPP				
															20										LPP				
															1										LPP				
															1										LPP				

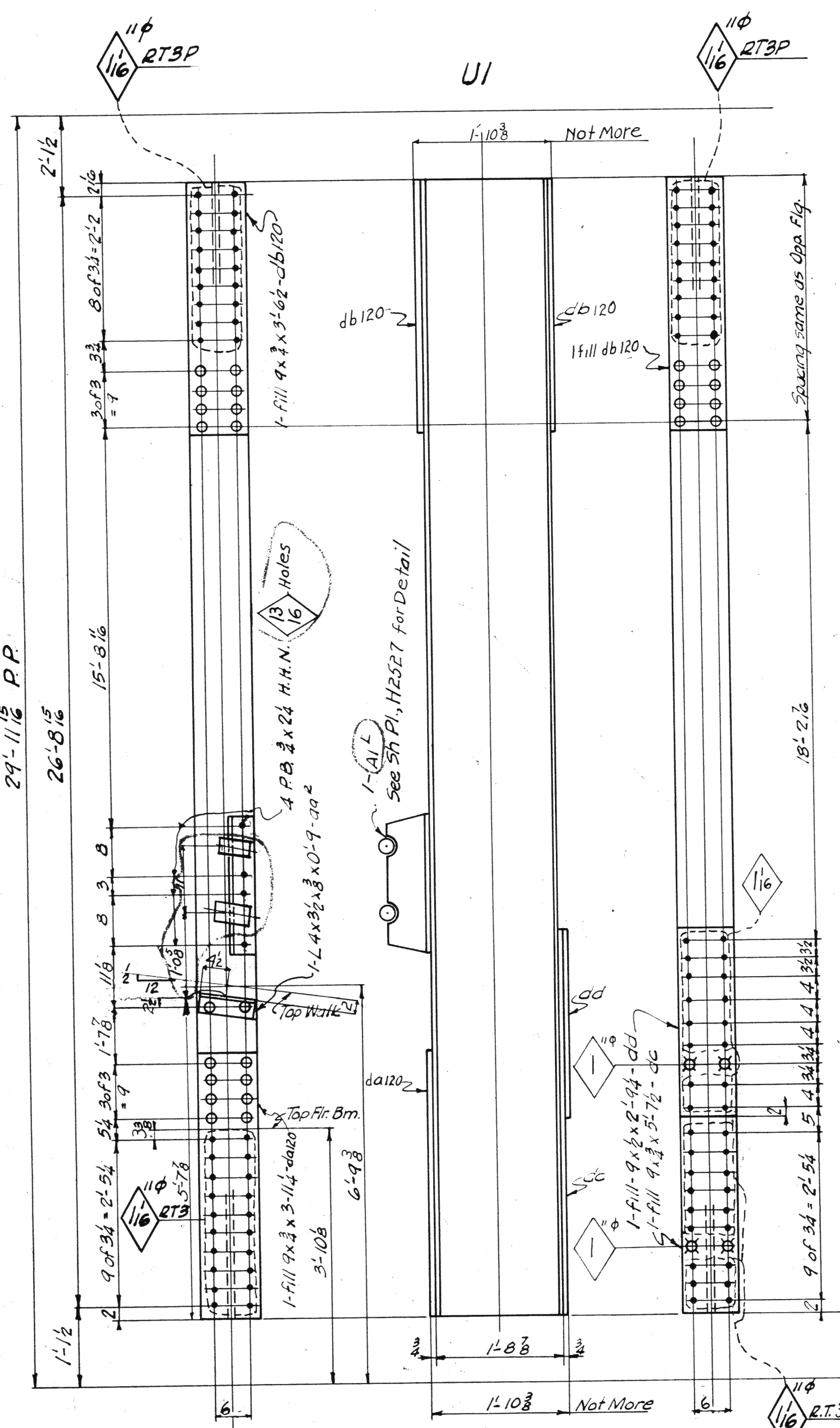
MATERIAL: O.H. Steel A.S.T.M. A7-16
 Copper bearing 0.20 min. copper content
 SPECIFICATIONS: Special by Wilbur
 Watson & Associates also Ohio State
 Highway
 INSPECTION: James H. Heron Co.
 ERECTION: A.B.Co.
 RIVETS: 7/8 unless noted
 OPEN HOLES: 1/2 unless noted
 All holes punched Full Size.
 Edge distance in 1/4 minimum

Lorain County, Ohio
 EAST 21st STREET BRIDGE
 Lorain, Ohio

AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT AMB PLANT.
 WORK FABRICATED AT AMB PLANT.
 IN CHARGE OF LOUGHMAN #2
 DRAW. MADE BY BLH-WW-1 DATE 6-11-31
 DRAW. CHECKED BY VG DATE 7/5/31
 ORDER NO. H2524 SHEET NO. 10
 Rev. 7-17-39

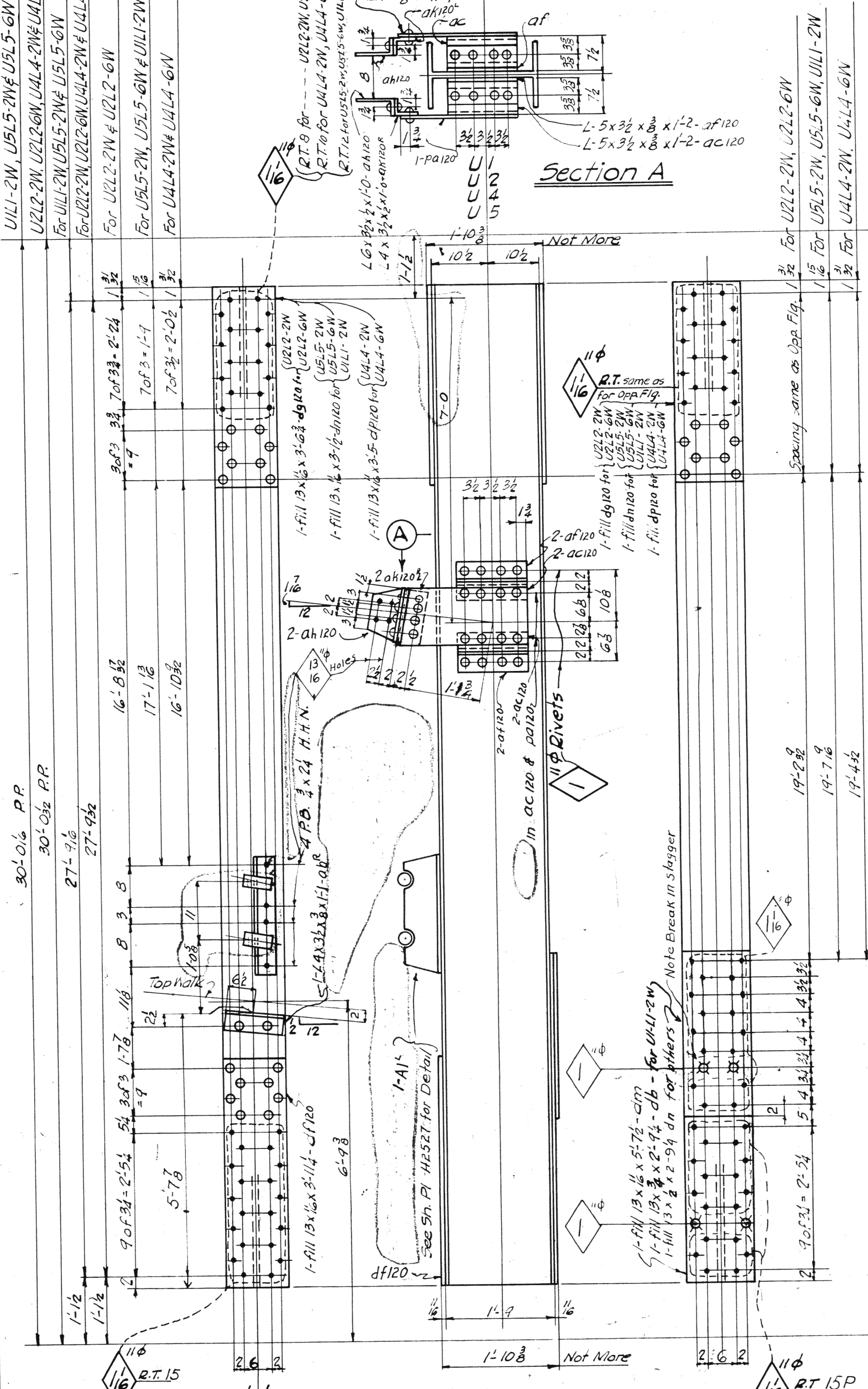
BOLTS		RIVETS		RIVETS		RIVETS		RIVETS		RIVETS	
Qty	Size	Qty	Size	Qty	Size	Qty	Size	Qty	Size	Qty	Size
1	1/2"	1	3/8"	1	3/8"	1	3/8"	1	3/8"	1	3/8"
1	3/4"	1	1/2"	1	1/2"	1	1/2"	1	1/2"	1	1/2"
1	1"	1	3/4"	1	3/4"	1	3/4"	1	3/4"	1	3/4"
1	1 1/4"	1	1"	1	1"	1	1"	1	1"	1	1"
1	1 1/2"	1	1 1/4"	1	1 1/4"	1	1 1/4"	1	1 1/4"	1	1 1/4"
1	1 3/4"	1	1 1/2"	1	1 1/2"	1	1 1/2"	1	1 1/2"	1	1 1/2"
1	2"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	2 1/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	2 1/2"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	2 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	3"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	3 1/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	3 1/2"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	3 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	4 1/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	4 1/2"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	4 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	5"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	5 1/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	5 1/2"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	5 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	6"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	6 1/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	6 1/2"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	6 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	7"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	7 1/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	7 1/2"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	7 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	8"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	8 1/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	8 1/2"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	8 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	9"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	9 1/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	9 1/2"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	9 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	10"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	10 1/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	10 1/2"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	10 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	11"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	11 1/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	11 1/2"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	11 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	12"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	12 1/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	12 1/2"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	12 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	13"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	13 1/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	13 1/2"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	13 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	14"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	14 1/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	14 1/2"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	14 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	15"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	15 1/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	15 1/2"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	15 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	16"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	16 1/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	16 1/2"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	16 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	17"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	17 1/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	17 1/2"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	17 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	18"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	18 1/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	18 1/2"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	18 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	19"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	19 1/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	19 1/2"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	19 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"
1	20"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"	1	1 3/4"

1-2ICB82x27-1 (Ord. 27-1)



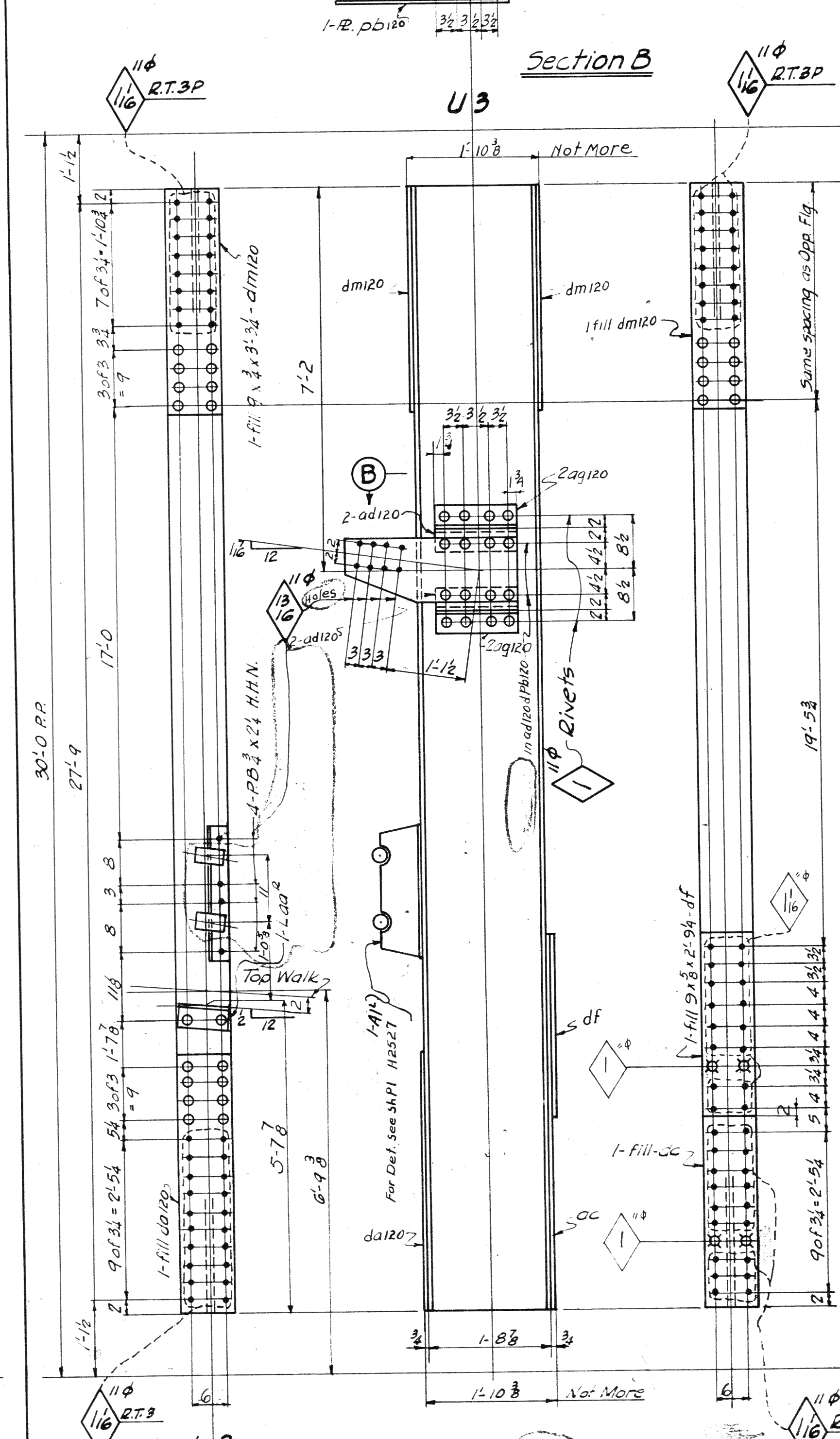
UI

1-2ICB112x28-1 (Ord. 28-1)



UII-2W (Left)
 U2L2-2W (Left)
 U2L2-6W
 U4L4-2W (Left)
 U4L4-6W
 U5L5-2W (Left)
 U5L5-6W

1-2ICB82x28-1 (Ord. 28-1)



U3L3-6W
 U3L3-2W (Left)

Span#	Span#	REQUIRED	MARK
Div. 5	Div. 1	TOTAL	DESCRIPTION
1	1	1	Verticals
1	1	1	UII-6W
1	1	1	do
1	1	1	U2L2-6W
1	1	1	do
1	1	1	U2L2-2W
1	1	1	do
1	1	1	U4L4-6W
1	1	1	do
1	1	1	U4L4-2W
1	1	1	do
1	1	1	U5L5-6W
1	1	1	do
1	1	1	U5L5-2W
1	1	1	do
1	1	1	U3L3-6W
1	1	1	do
1	1	1	U3L3-2W

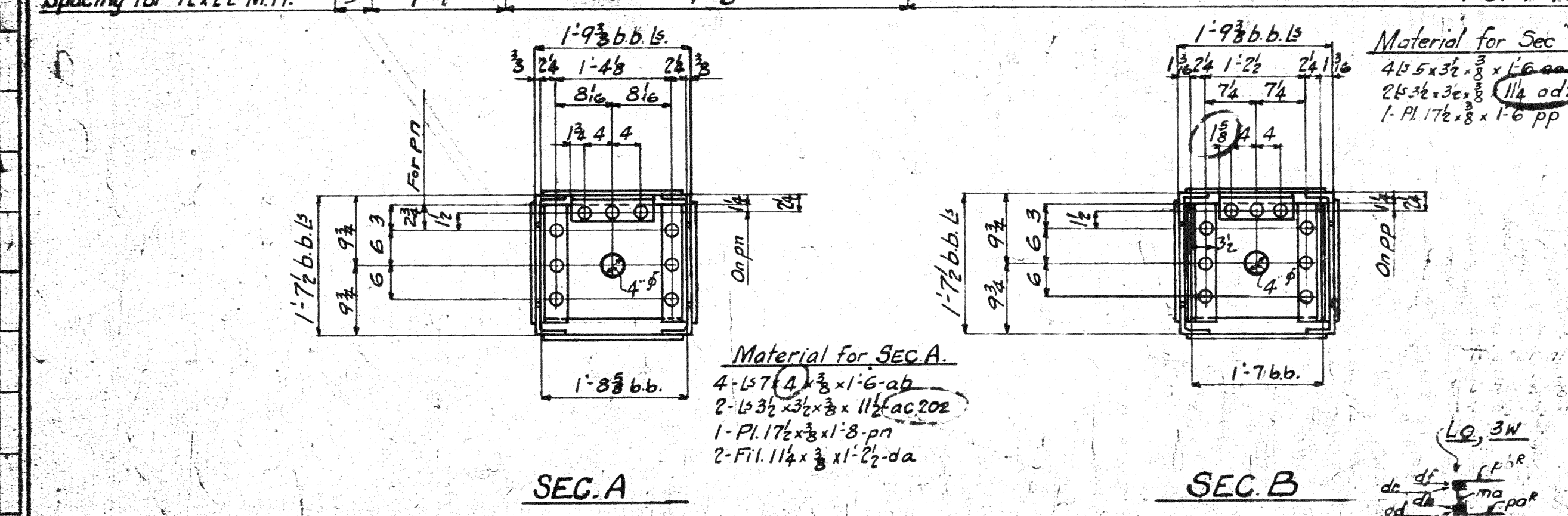
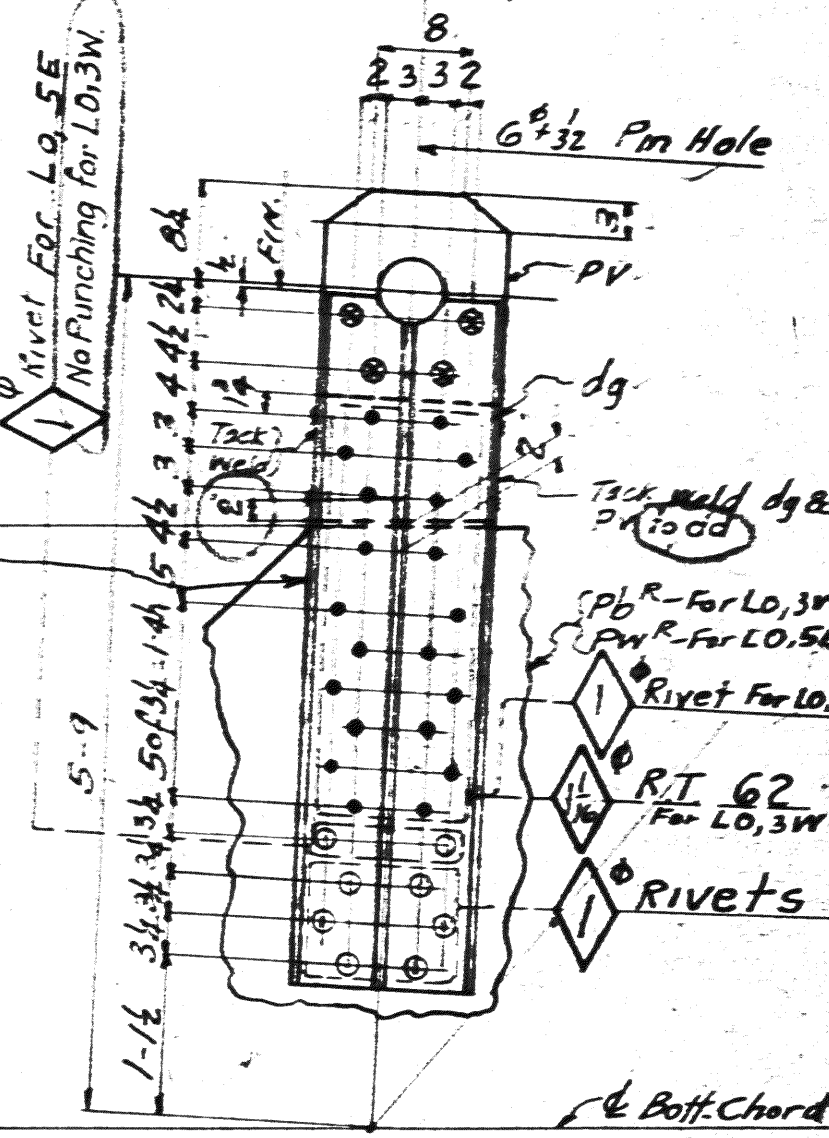
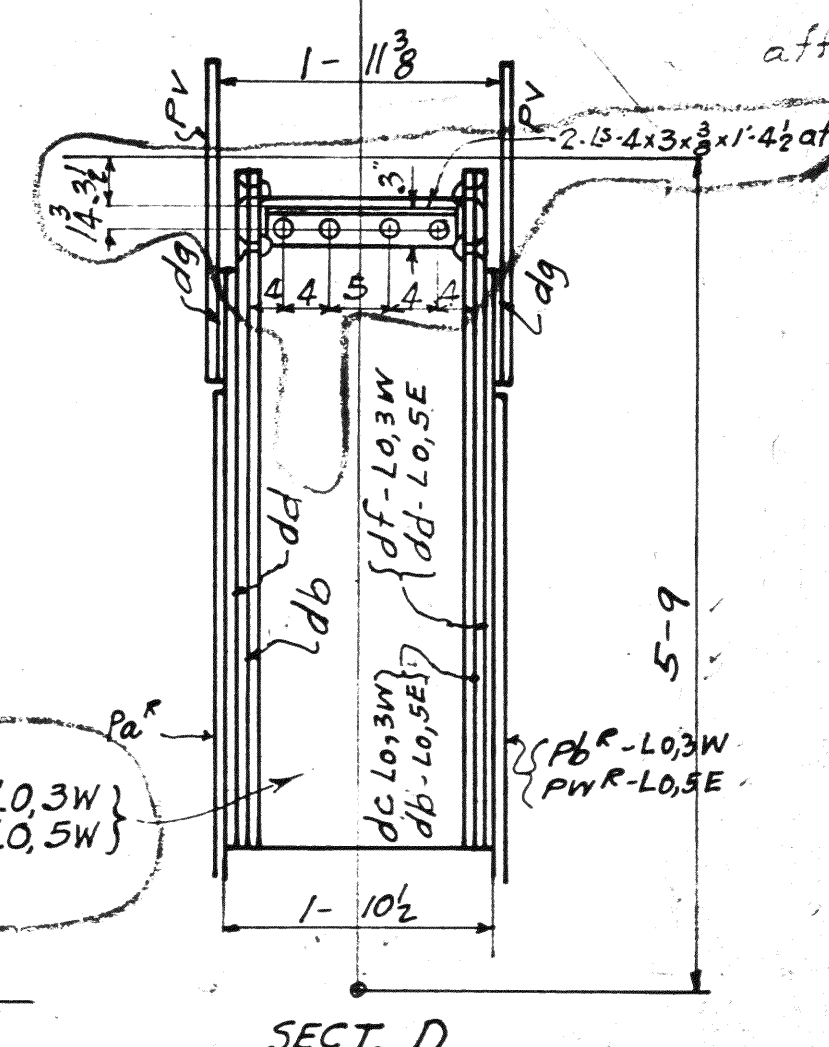
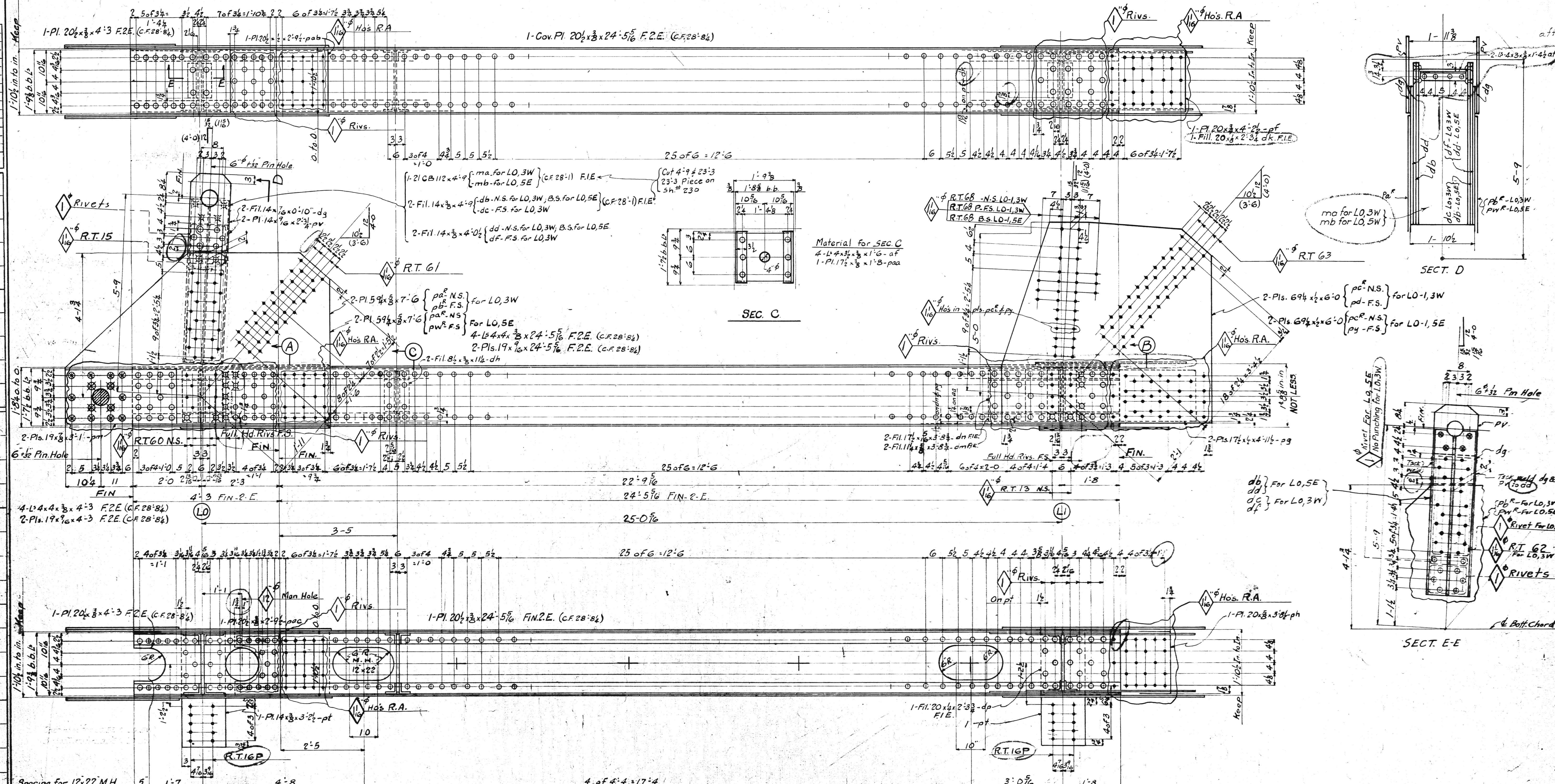
MATERIAL: C.H. Steel A.S.T.M. A7-36
 Copper bearing 0.20 min. copper content
 SPECIFICATIONS: Special by Wilbur Watson & Associates also Ohio State Highway
 INSPECTION: James H. Herron Co.
 ERECTION: A.B.Co.
 RIVETS: B Unless noted
 OPEN HOLES: As Noted
 REAMING: All holes in material 3/8 thick or less sumpunched 1/8 dia and reamed to size while parts are assembled
 Holes in material more than 3/8 thick shall be drilled
 Holes for bracing and diaphragms which do not pass thru main truss material may be punched full size.
 Holes marked RT346 punched or sub-drilled 1/8 dia and reamed to size to a metal template.
 Holes marked RA reamed while chords of trusses are assembled

Lorain County, Ohio
 EAST 21st STREET BRIDGE
 Lorain, Ohio

DESIGNED BY
AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT **Ambridge** PLANT.
 WORK FABRICATED AT **Ambridge** PLANT.
 IN CHARGE OF **Loughman DR.#2**
 DRAW. MADE BY **BAC (J.Re.)** DATE **6-22-39**
 DRAW. CHECKED BY **VG** DATE **9/27/39**
 ORDER NO. **H2524** SHEET NO. **128**

Rev. 7-18-39

PAINT: Yes
 CONTACT SURFACES: No Shop & Field
 Except members permanently bolted are to be painted



Material for Sec B
 4-15 3/8 x 3/8 x 1'-6" - af
 2-15 3/8 x 3/8 x 1'-6" - af
 1-Pl 17 1/2 x 3/8 x 1'-8" - paa

LO-1,3W
 LO-1,3E (Left of LO-1,3W except for rivets. See location diagram)
 LO-1,5E (Same as LO-1,3W except for rivets. See location diagram)
 LO-1,5W (Left of LO-1,3W)

LO-1,3W
 LO-1,5E (Same as LO-1,3W except for rivets. See location diagram)
 LO-1,3E (Left of LO-1,5E. See location diagram)
 LO-1,5W (Left of LO-1,3W)

Span	Div.	REQUIRED		
		No.	Description	Mark.
3	5	1	Bottom Chord	LO-1,3W
3	6	1	"	LO-1,3E
5	2	1	"	LO-1,5W
5	1	1	"	LO-1,5E
5	1	1	"	LO-1,3W
5	1	1	"	LO-1,3E
5	1	1	"	LO-1,5W
5	1	1	"	LO-1,5E

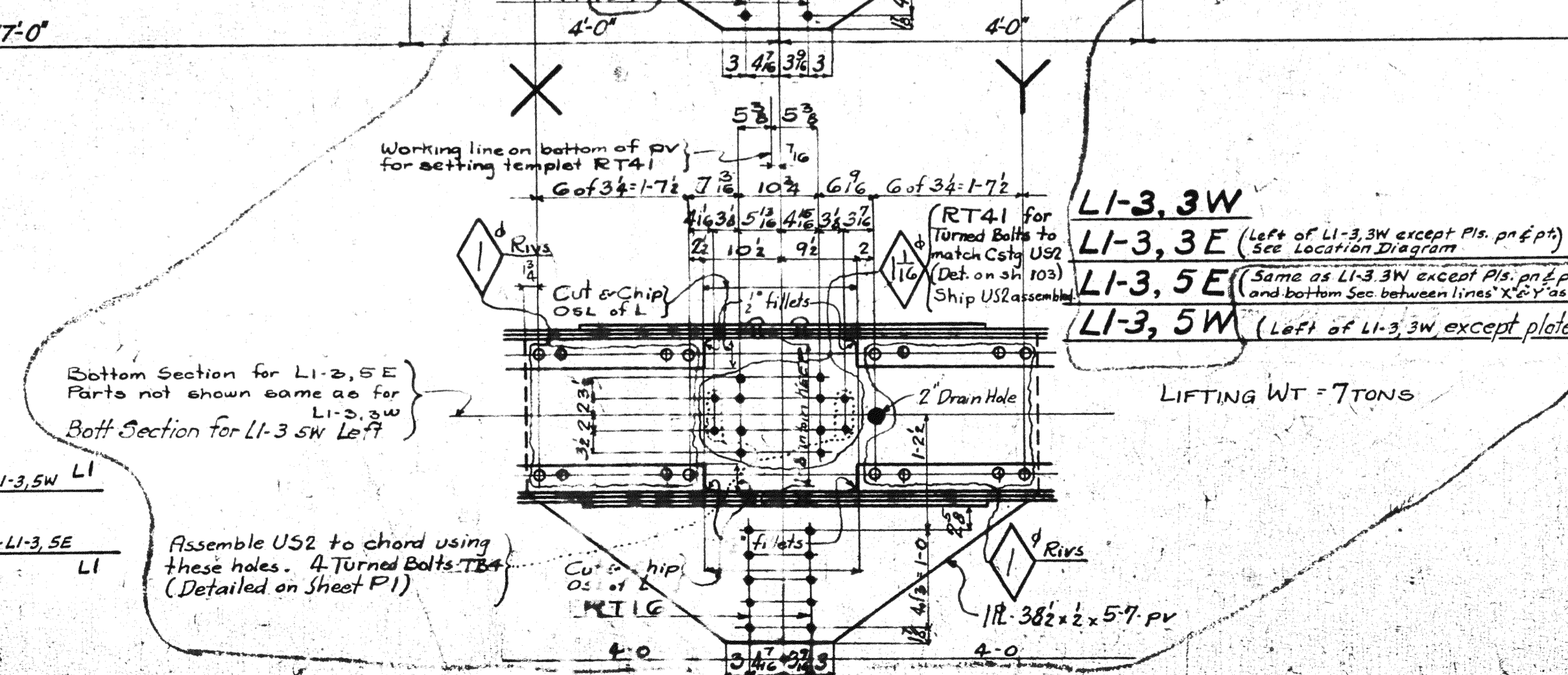
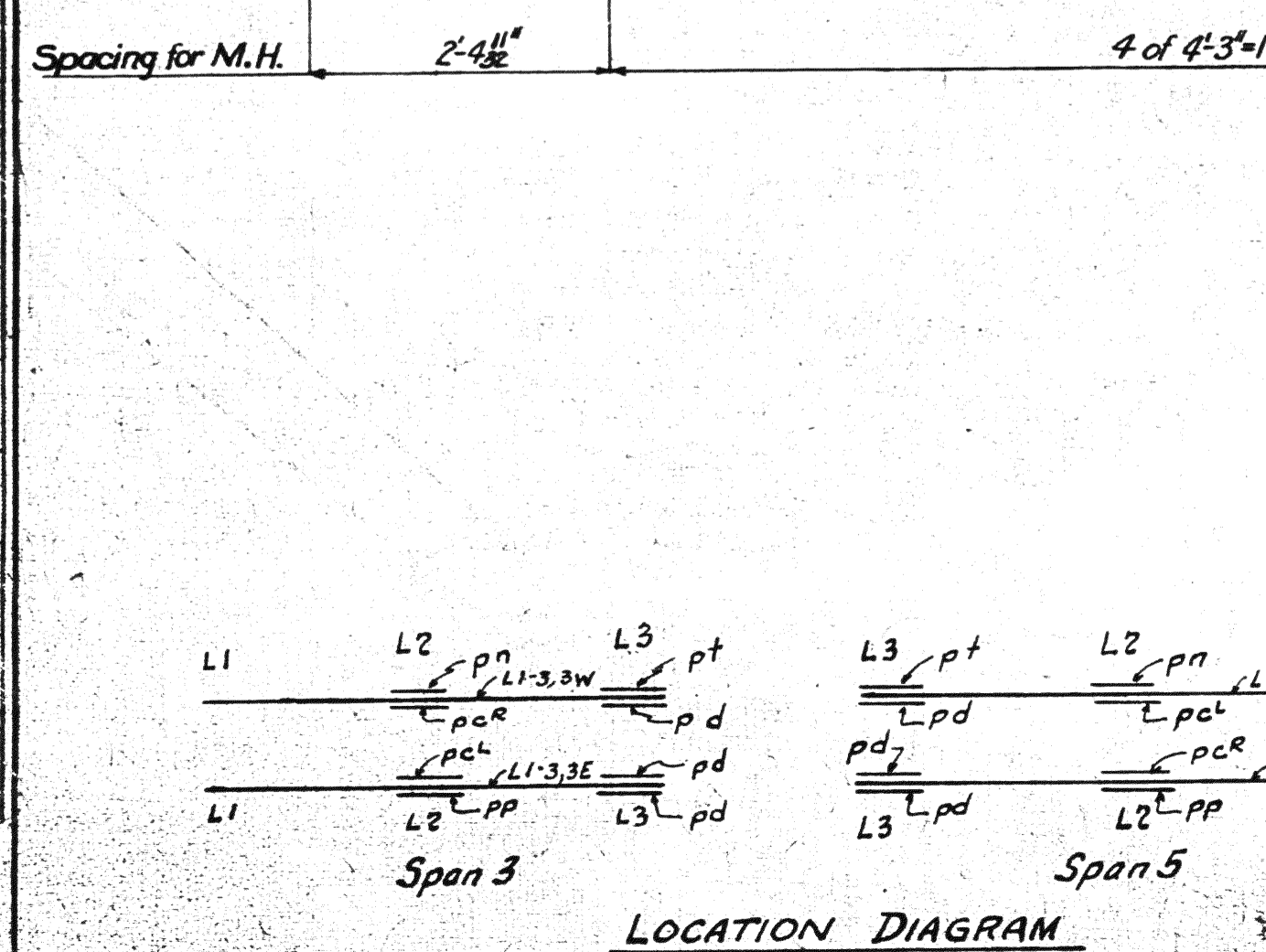
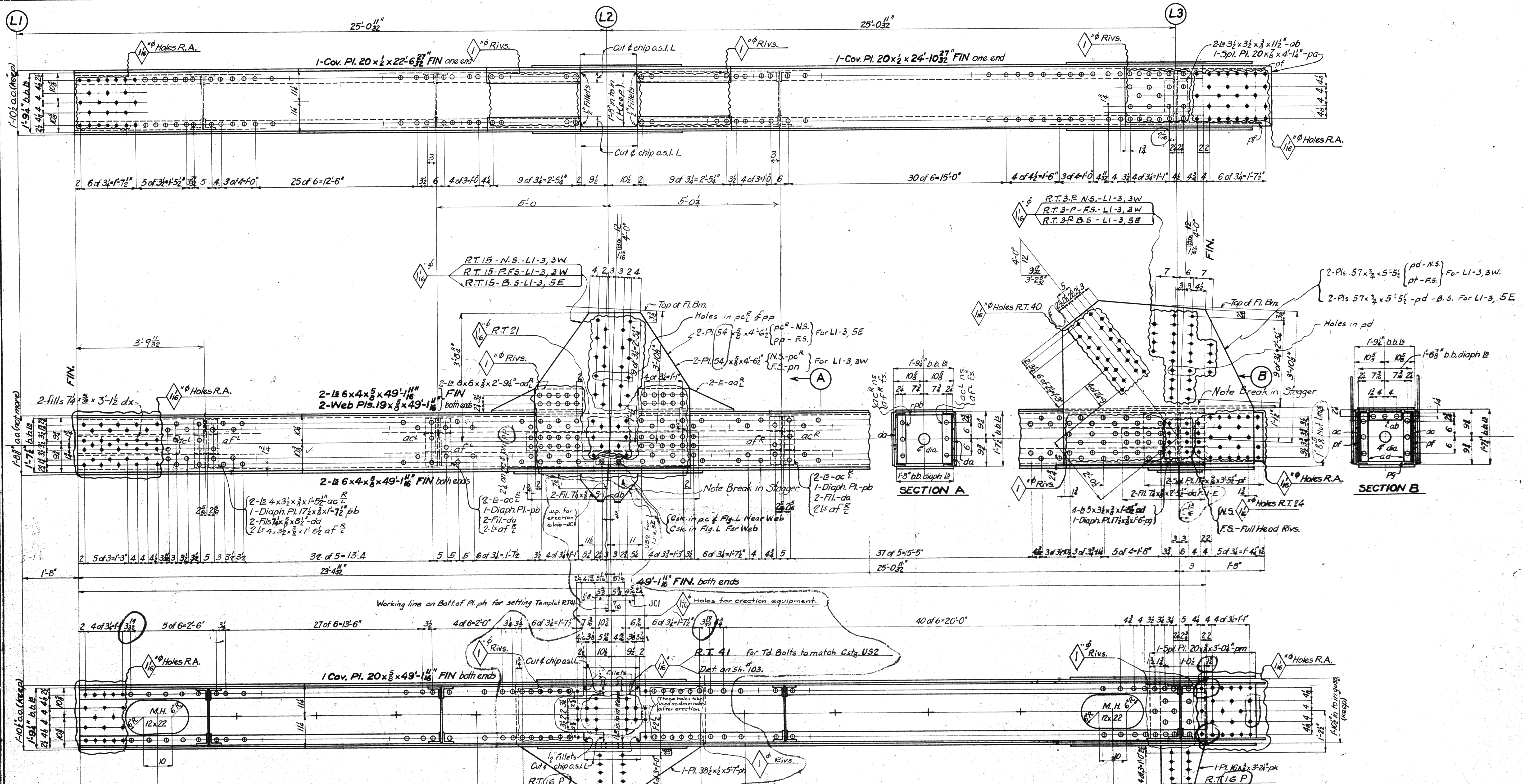
MATERIAL: O.H. Steel A.S.T.A. A7-16
 Copper bearing 0.20 min. copper content
 SPECIFICATIONS: Special by Wilbur, Watson & Associates also Ohio State Highway
 INSPECTION: James H. Heron Co.
 ERECTION: A.B.Co.
 RIVETS: 5/8" unless noted
 OPEN HOLES: 1/2" unless noted
 HEAMING: All holes in material 3/8" thick or less subpunched 1/2" dia. and reamed to size while parts are assembled.
 Holes in material more than 3/8" thick shall be drilled.
 Holes for bracing and diaphragms which do not pass thru main truss material may be punched full size.
 Holes marked RT subpunched or sub-drilled 1/2" dia. and reamed to size to a metal template.
 Holes marked RA reamed while chords of trusses are assembled.

PAINT: Yes
 CONTACT SURFACES: No. (Shop & Field)

AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT Ambridge PLANT.
 WORK FABRICATED AT Ambridge PLANT.
 IN CHARGE OF Loughman D.R. 2
 DRAW. MADE BY H.E.L. R.W. DATE 6/15/32
 DRAW. CHECKED BY H.E.L. DATE 7-19-32

ORDER NO. H2524
 SHEET NO. 202

23



SPAN 3		REQUIRED	
DIV. 6	2	Description	Mark
1		BOTTOM CHORD	LI-3, 3W
1		"	LI-3, 3E
1		"	LI-3, 5E
1		"	LI-3, 5W

MATERIAL: O.H. Steel A.S.T.M. A7-6
 Copper bearing 0.20 min. copper content
 SPECIFICATIONS: Special by Wilbur Watson & Associates also Ohio State Highway
 INSPECTION: James H. Herron Co.
 ERECTION: A.B.Co.
 RIVETS: $\frac{3}{8}$ unless noted
 OPEN HOLES: $\frac{1}{8}$ unless noted
 REAMING: All holes in material $\frac{7}{8}$ thick or less subpunched $\frac{1}{8}$ dia. and reamed to size while parts are assembled.
 Holes in material more than $\frac{7}{8}$ thick shall be drilled.
 Holes for bracing and diaphragms which do not pass thru main truss material may be punched full size.
 Holes marked RT subpunched or sub-drilled $\frac{1}{8}$ dia. and reamed to size to a metal templet.
 Holes marked RA reamed while chords of trusses are assembled.
 PAINT: Yes
 CONTACT SURFACES: No (Shop & Field)

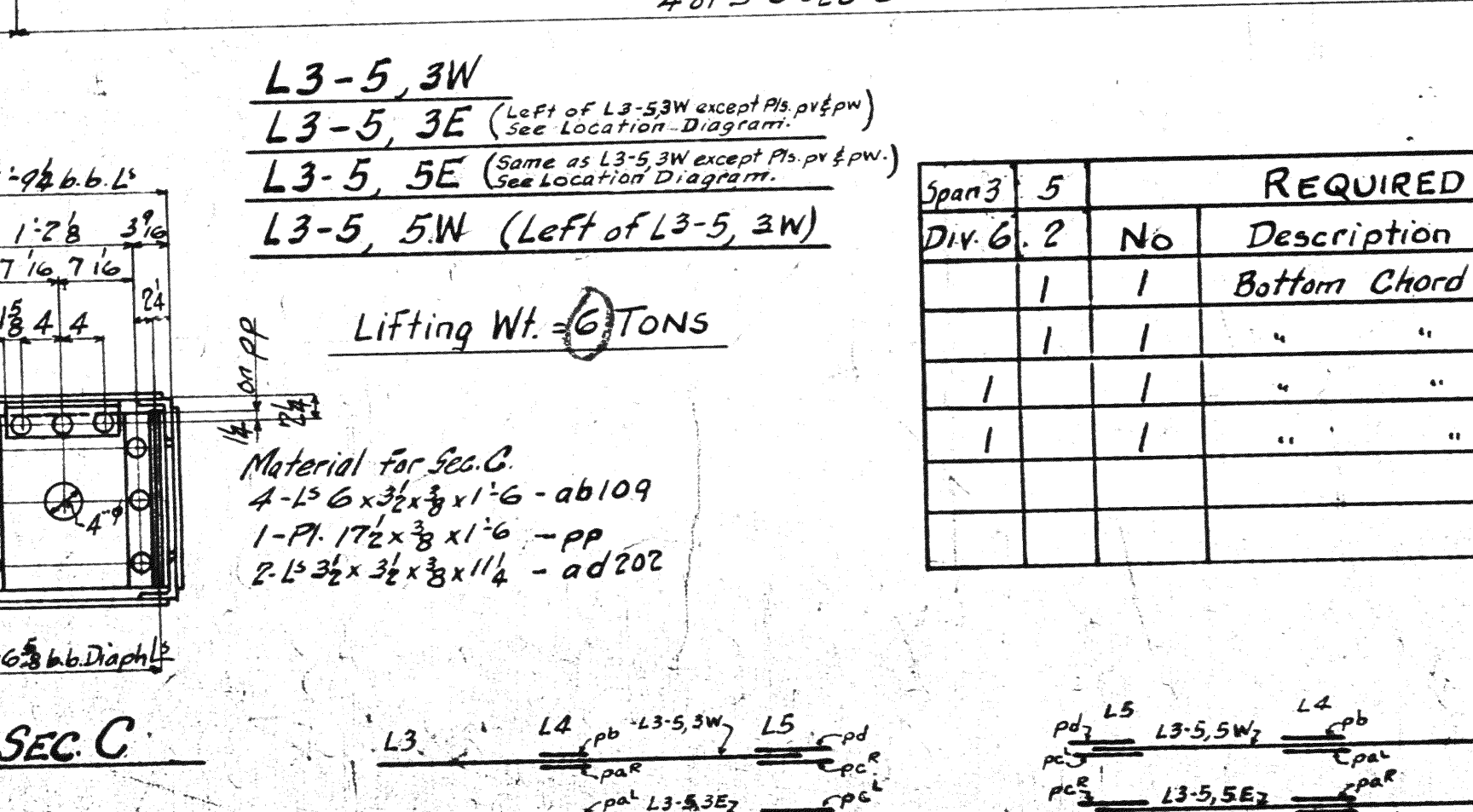
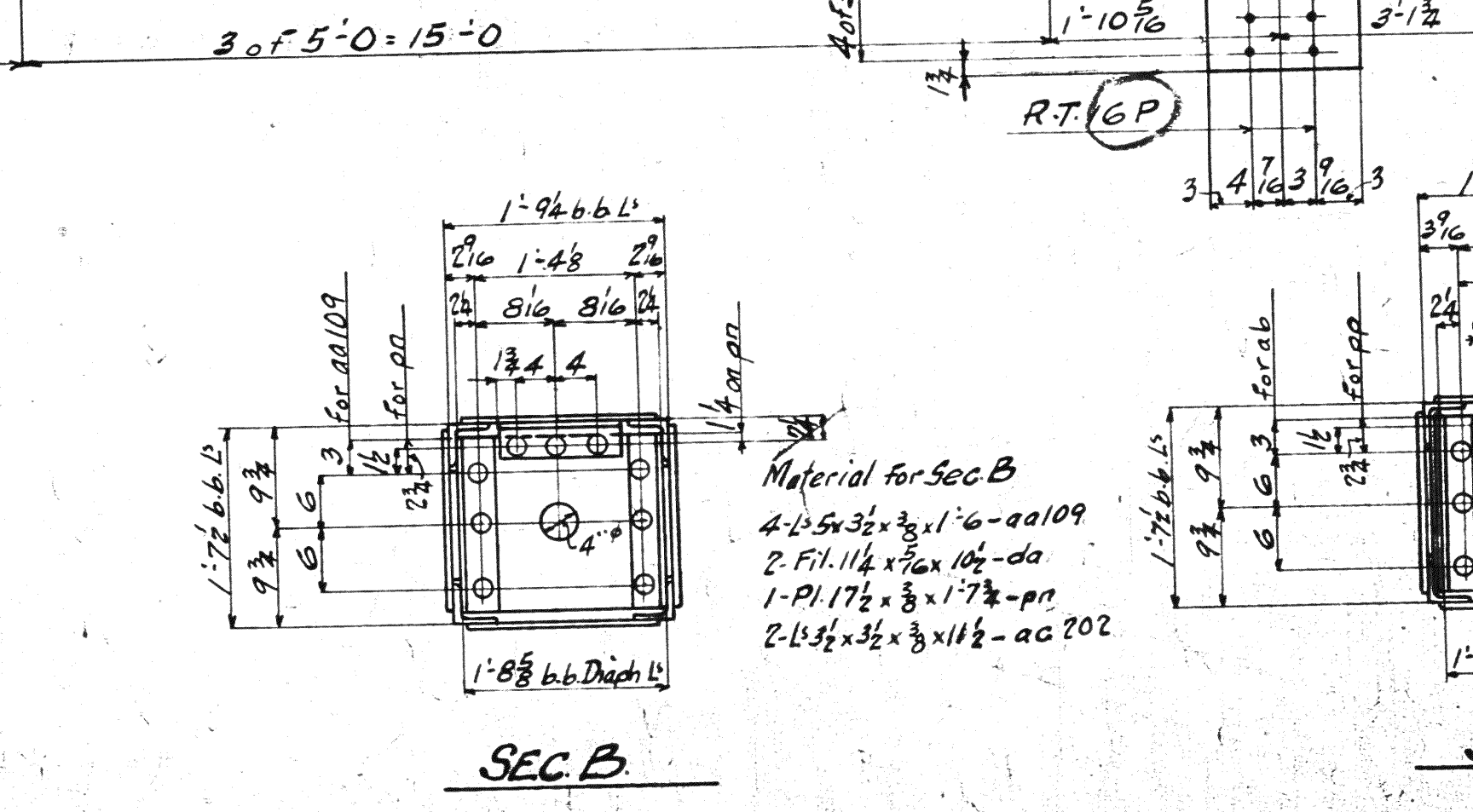
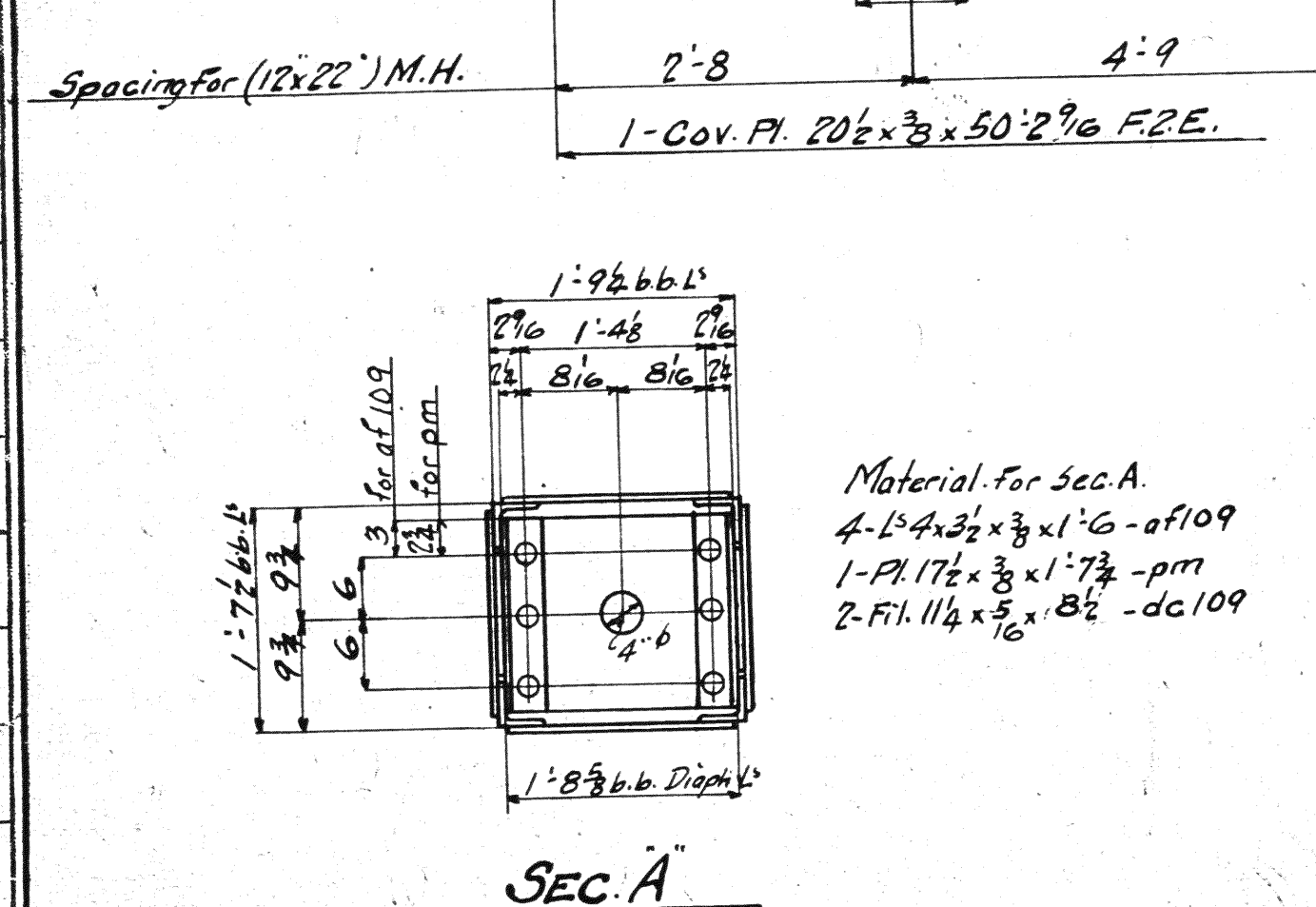
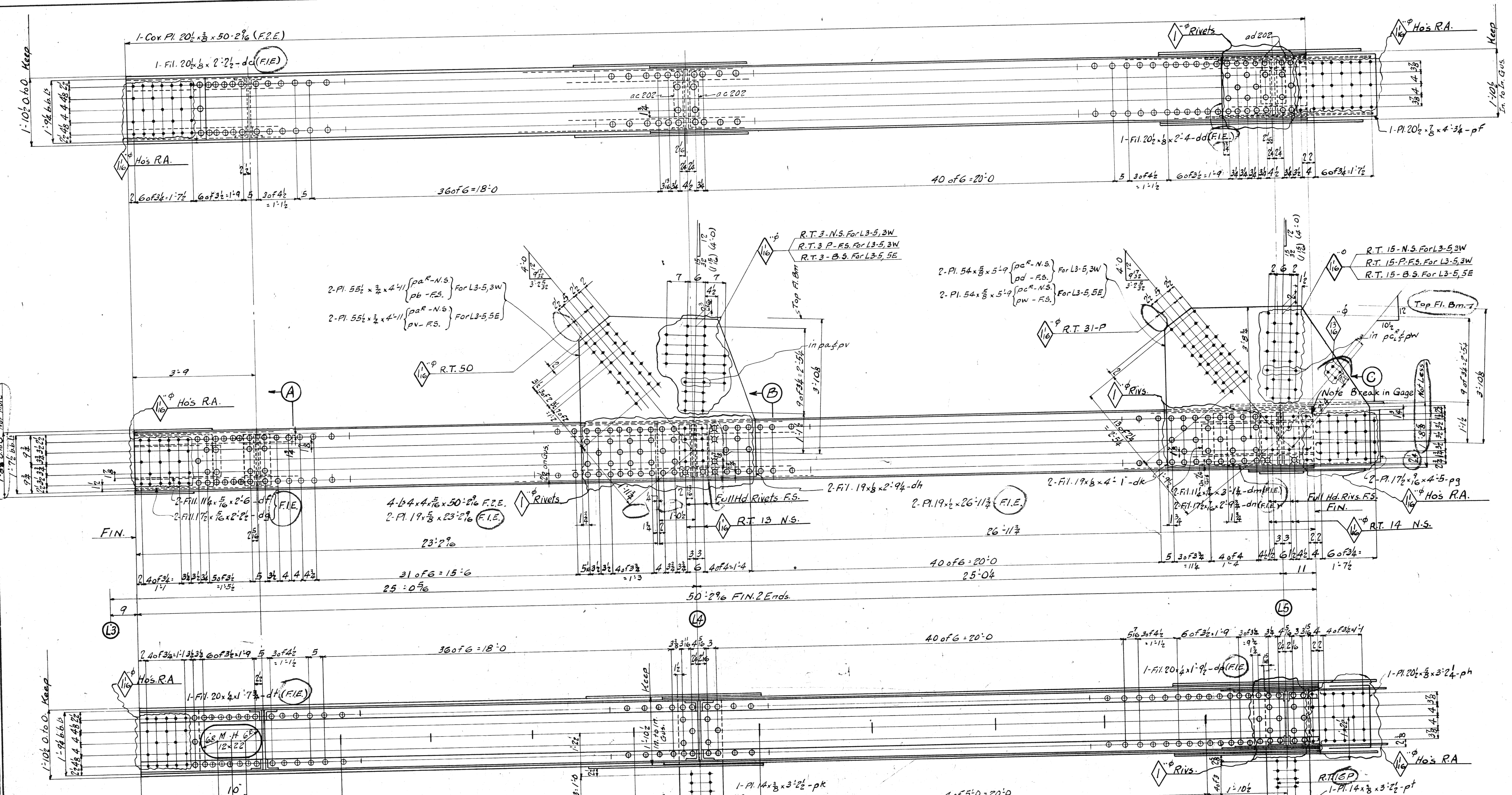
Lorain County, Ohio
 EAST 21st STREET BRIDGE
 Lorain, Ohio

AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT Ambridge PLANT.
 WORK FABRICATED AT Ambridge PLANT.
 IN CHARGE OF Loughman D.R.#2
 DRAW. MADE BY H.P.E. (x) DATE 6-15-39
 DRAW. CHECKED BY DATE 7-14-39

ORDER No. H2524 SHEET No. 203

Rev 8-1-39

BOLTS		RIVETS		RIVETS		RIVETS		RIVETS		RIVETS	
Head	Shank	Head	Shank	Head	Shank	Head	Shank	Head	Shank	Head	Shank
1/2"	3/8"	1/2"	3/8"	1/2"	3/8"	1/2"	3/8"	1/2"	3/8"	1/2"	3/8"
1/2"	3/8"	1/2"	3/8"	1/2"	3/8"	1/2"	3/8"	1/2"	3/8"	1/2"	3/8"
1/2"	3/8"	1/2"	3/8"	1/2"	3/8"	1/2"	3/8"	1/2"	3/8"	1/2"	3/8"



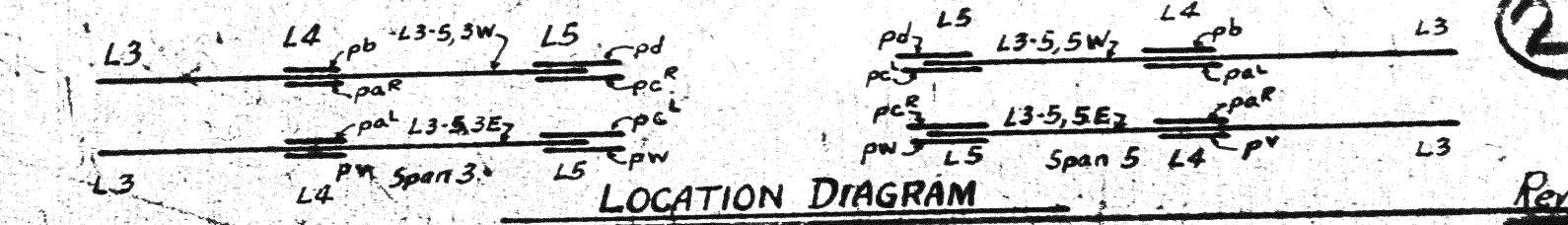
L3-5, 3W
 L3-5, 3E (Left of L3-5, 3W except for rivets)
 L3-5, 5E (Same as L3-5, 3W except for rivets)
 L3-5, 5W (Left of L3-5, 3W)

Lifting Wt. 6 TONS

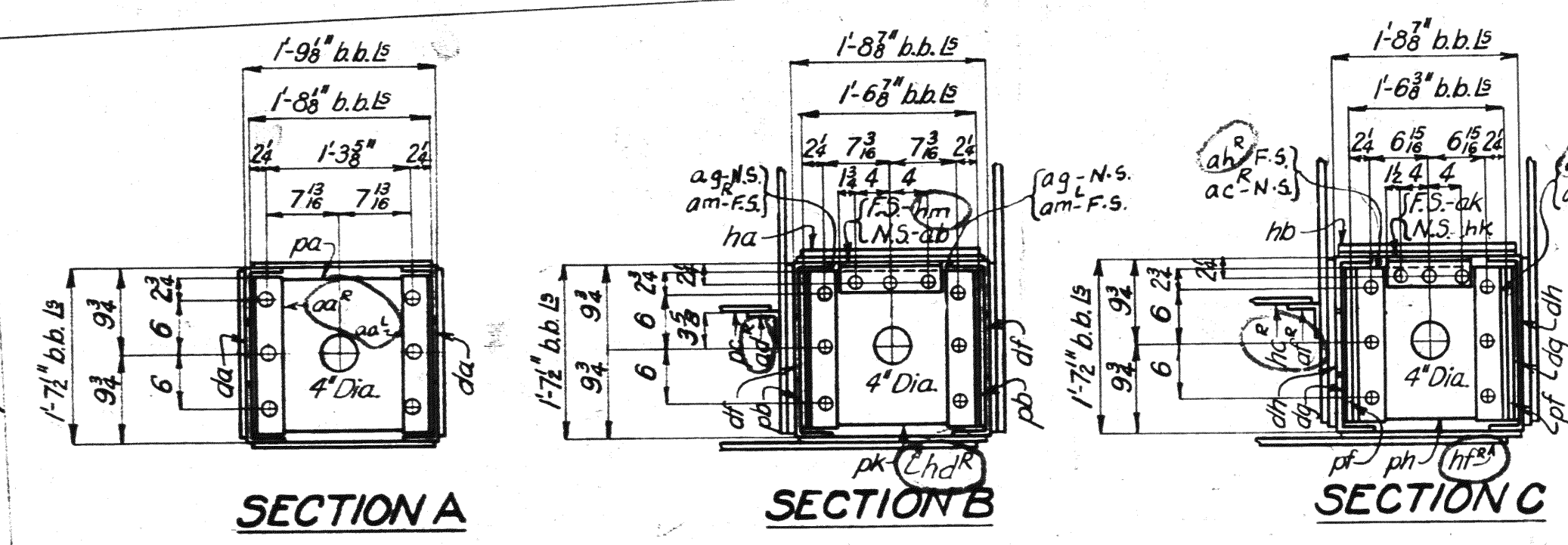
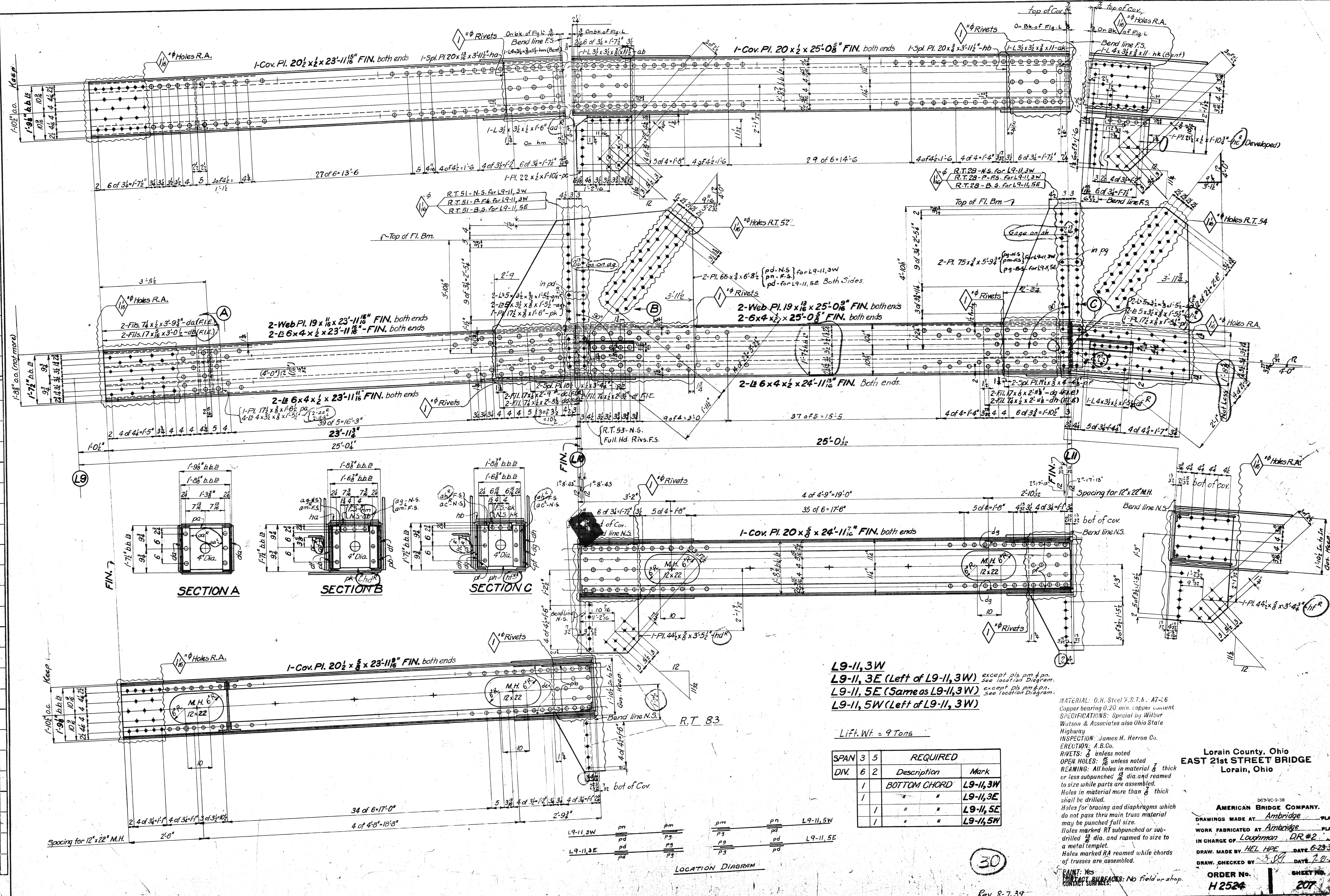
Span	Div.	REQUIRED		
		No	Description	Mark
5	2	1	Bottom Chord	L3-5, 5W
		1	"	L3-5, 5E
		1	"	L3-5, 3W

MAILED IN ACC. H. Steel A.S.T.M. A7-33
 Copper bearing 0.20 min. copper content
 SPECIFICATIONS: Special by Wilson
 Watson & Associates also Ohio State
 Highway INSPECTION: A.B.C.
 ERECTOR: Unless noted, Open Holes 1/8" Unless Noted
 REMARKS: All holes in material 3/8" thick or less punched 1/8" and reamed to size
 Holes in material more than 3/8" thick shall be drilled.
 Holes for bracing and diaphragms which do not pass thru main truss material may be punched full size.
 Holes marked RT subpunched or sub-drilled 1/8" dia. and reamed to size to a metal template.
 Holes Marked RA are to be reamed while chords of trusses are assembled.

Lorain County, Ohio
 EAST 21st STREET BRIDGE
 Lorain, Ohio
 AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT **Ambridge** PLANT
 WORK FABRICATED AT **Ambridge** PLANT
 IN CHARGE **Loughman** D.E.T.
 DRAW. MADE BY **R.W.** DATE **6/12/22**
 DRAW. CHECKED BY **R.W.** DATE **7/13/22**
 ORDER NO. **H2524** SHEET NO. **204**



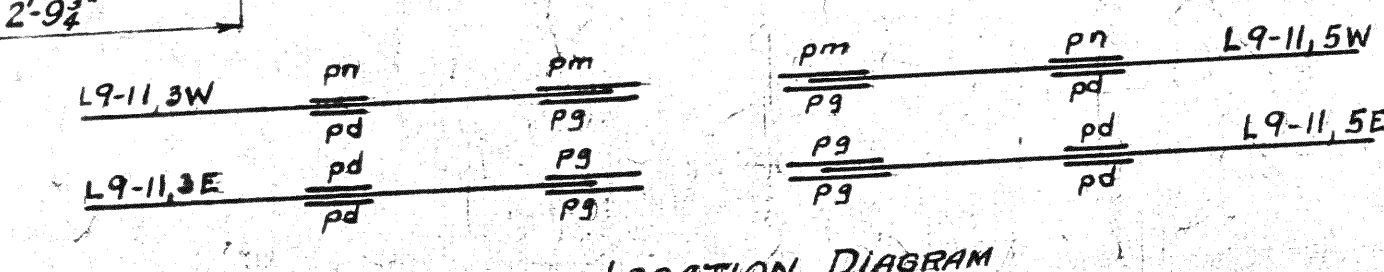
No.	BOLTS		RIVETS	
	Size	Qty	Size	Qty
1	1/2"	1	3/4"	1
2	3/8"	1	3/8"	1
3	1/4"	1	1/4"	1
4	1/8"	1	1/8"	1
5	1/16"	1	1/16"	1
6	1/32"	1	1/32"	1
7	1/64"	1	1/64"	1
8	1/128"	1	1/128"	1
9	1/256"	1	1/256"	1
10	1/512"	1	1/512"	1
11	1/1024"	1	1/1024"	1
12	1/2048"	1	1/2048"	1
13	1/4096"	1	1/4096"	1
14	1/8192"	1	1/8192"	1
15	1/16384"	1	1/16384"	1
16	1/32768"	1	1/32768"	1
17	1/65536"	1	1/65536"	1
18	1/131072"	1	1/131072"	1
19	1/262144"	1	1/262144"	1
20	1/524288"	1	1/524288"	1
21	1/1048576"	1	1/1048576"	1
22	1/2097152"	1	1/2097152"	1
23	1/4194304"	1	1/4194304"	1
24	1/8388608"	1	1/8388608"	1
25	1/16777216"	1	1/16777216"	1
26	1/33554432"	1	1/33554432"	1
27	1/67108864"	1	1/67108864"	1
28	1/134217728"	1	1/134217728"	1
29	1/268435456"	1	1/268435456"	1
30	1/536870912"	1	1/536870912"	1
31	1/1073741824"	1	1/1073741824"	1
32	1/2147483648"	1	1/2147483648"	1
33	1/4294967296"	1	1/4294967296"	1
34	1/8589934592"	1	1/8589934592"	1
35	1/17179869184"	1	1/17179869184"	1
36	1/34359738368"	1	1/34359738368"	1
37	1/68719476736"	1	1/68719476736"	1
38	1/137438953472"	1	1/137438953472"	1
39	1/274877906944"	1	1/274877906944"	1
40	1/549755813888"	1	1/549755813888"	1
41	1/1099511627776"	1	1/1099511627776"	1
42	1/2199023255552"	1	1/2199023255552"	1
43	1/4398046511104"	1	1/4398046511104"	1
44	1/8796093022208"	1	1/8796093022208"	1
45	1/17592180444416"	1	1/17592180444416"	1
46	1/35184360888832"	1	1/35184360888832"	1
47	1/70368721777664"	1	1/70368721777664"	1
48	1/140737443555328"	1	1/140737443555328"	1
49	1/281474887110656"	1	1/281474887110656"	1
50	1/562949774221312"	1	1/562949774221312"	1
51	1/1125899548442624"	1	1/1125899548442624"	1
52	1/2251799096885248"	1	1/2251799096885248"	1
53	1/4503598193770496"	1	1/4503598193770496"	1
54	1/9007196387540992"	1	1/9007196387540992"	1
55	1/18014392775081984"	1	1/18014392775081984"	1
56	1/36028785550163968"	1	1/36028785550163968"	1
57	1/72057571100327936"	1	1/72057571100327936"	1
58	1/144115142200655872"	1	1/144115142200655872"	1
59	1/288230284401311744"	1	1/288230284401311744"	1
60	1/576460568802623488"	1	1/576460568802623488"	1
61	1/1152921137605246976"	1	1/1152921137605246976"	1
62	1/2305842275210493952"	1	1/2305842275210493952"	1
63	1/4611684550420987904"	1	1/4611684550420987904"	1
64	1/9223369100841975808"	1	1/9223369100841975808"	1
65	1/18446738201683951616"	1	1/18446738201683951616"	1
66	1/36893476403367903232"	1	1/36893476403367903232"	1
67	1/73786952806735806464"	1	1/73786952806735806464"	1
68	1/14757390561347161728"	1	1/14757390561347161728"	1
69	1/29514781122694323456"	1	1/29514781122694323456"	1
70	1/59029562245388646912"	1	1/59029562245388646912"	1
71	1/11805912449077729824"	1	1/11805912449077729824"	1
72	1/23611824898155459648"	1	1/23611824898155459648"	1
73	1/47223649796310919296"	1	1/47223649796310919296"	1
74	1/94447299592621838592"	1	1/94447299592621838592"	1
75	1/188894599185243677184"	1	1/188894599185243677184"	1
76	1/377789198370487354368"	1	1/377789198370487354368"	1
77	1/755578396740974708736"	1	1/755578396740974708736"	1
78	1/1511156793881949417472"	1	1/1511156793881949417472"	1
79	1/3022313587763898834944"	1	1/3022313587763898834944"	1
80	1/6044627175527797669888"	1	1/6044627175527797669888"	1
81	1/12089254351055595339776"	1	1/12089254351055595339776"	1
82	1/24178508702111190679552"	1	1/24178508702111190679552"	1
83	1/48357017404222381359104"	1	1/48357017404222381359104"	1
84	1/96714034808444762718208"	1	1/96714034808444762718208"	1
85	1/193428073616889525436416"	1	1/193428073616889525436416"	1
86	1/386856147233779050872832"	1	1/386856147233779050872832"	1
87	1/773712294467558101745664"	1	1/773712294467558101745664"	1
88	1/1547424588935116234911296"	1	1/1547424588935116234911296"	1
89	1/3094849177870232469822592"	1	1/3094849177870232469822592"	1
90	1/6189698355740464939645184"	1	1/6189698355740464939645184"	1
91	1/12379396714880929879290368"	1	1/12379396714880929879290368"	1
92	1/24758793429761859758580736"	1	1/24758793429761859758580736"	1
93	1/495175868595237195171714688"	1	1/495175868595237195171714688"	1
94	1/990351737190474390343429376"	1	1/990351737190474390343429376"	1
95	1/198070347438094878068685872"	1	1/198070347438094878068685872"	1
96	1/3961406948761897561373717568"	1	1/3961406948761897561373717568"	1
97	1/7922813897523795122747435136"	1	1/7922813897523795122747435136"	1
98	1/1584562779504790224549486256"	1	1/1584562779504790224549486256"	1
99	1/3169125559009580449098972512"	1	1/3169125559009580449098972512"	1
100	1/6338251118019160898197845024"	1	1/6338251118019160898197845024"	1



L9-11, 3W
L9-11, 3E (Left of L9-11, 3W) except pls pm & pn see location Diagram
L9-11, 5E (Same as L9-11, 3W) except pls pm & pn see location Diagram
L9-11, 5W (Left of L9-11, 3W)

Lift. Wt. = 9 Tons

SPAN	DIV.	REQUIRED	
		Description	Mark
3	5	BOTTOM CHORD	L9-11, 3W
6	2	"	L9-11, 3E
1	1	"	L9-11, 5E
1	1	"	L9-11, 5W



MATERIAL: O.H. Steel 7-S.T.M. A7-6
 Copper bearing 0.20 min. copper content
 SPECIFICATIONS: Special by Wilbur
 Watson & Associates also Ohio State
 Highway
 INSPECTION: James H. Herron Co.
 ERECTION: A.B.Co.
 RIVETS: 3/8 unless noted
 OPEN HOLES: 1/8 unless noted
 REAMING: All holes in material 3/8 thick
 or less subpunched 1/8 dia. and reamed
 to size while parts are assembled.
 Holes in material more than 3/8 thick
 shall be drilled.
 Holes for bracing and diaphragms which
 do not pass thru main stress material
 may be punched full size.
 Holes marked RT subpunched or sub-
 drilled 1/8 dia. and reamed to size to
 a metal template.
 Holes marked RA reamed while chords
 of trusses are assembled.

Lorain County, Ohio
EAST 21st STREET BRIDGE
 Lorain, Ohio

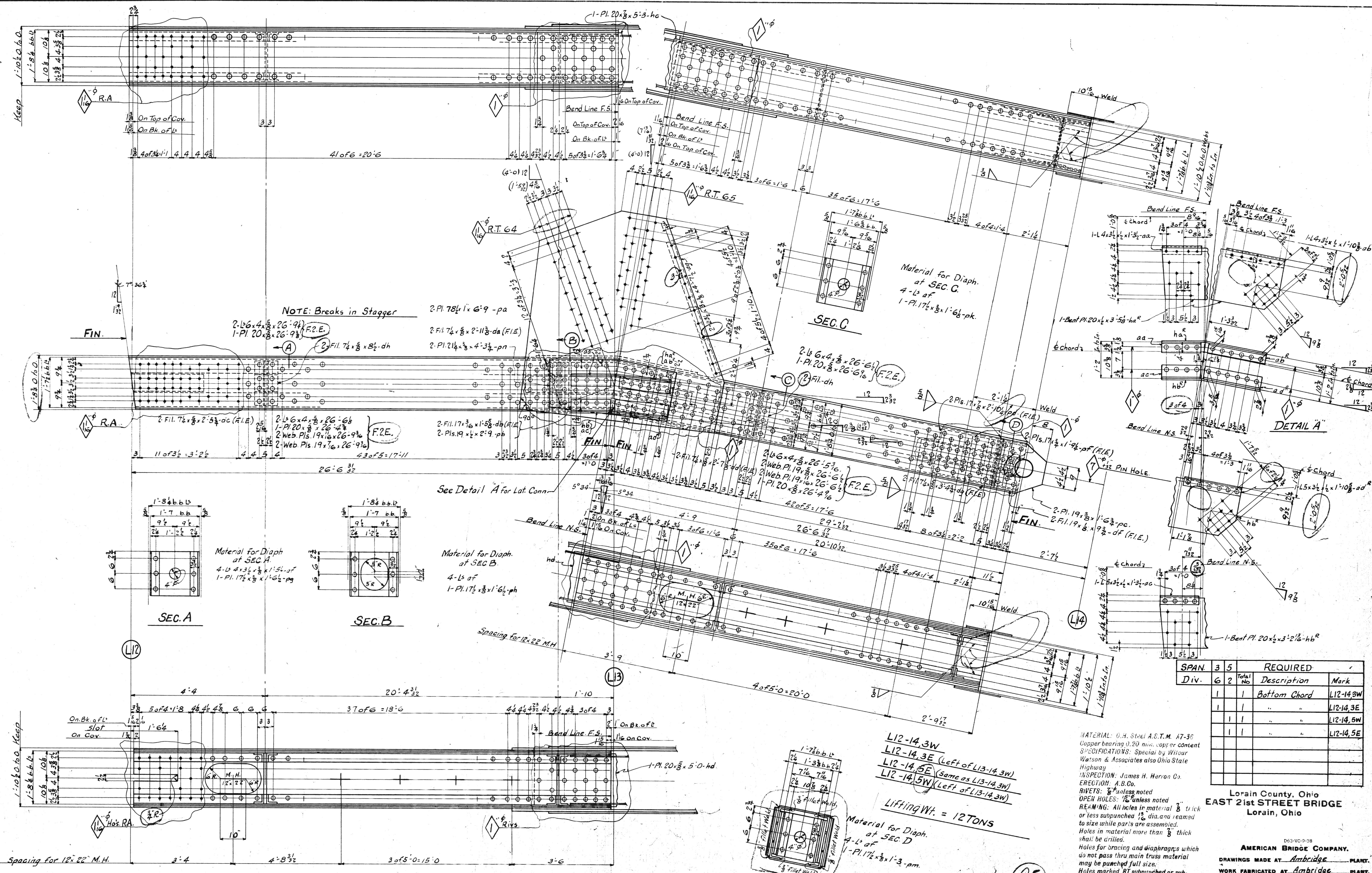
AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT Ambridge PLANT.
 WORK FABRICATED AT Ambridge PLANT.
 IN CHARGE OF Loughman DR #2
 DRAW MADE BY HEL HPE DATE 6-23-39
 DRAW CHECKED BY WJ DATE 7-21-39

PAINT: Yes
 CONTACT SURFACES: No field or shop.
 ORDER NO. H 2524 SHEET NO. 207

30

Rev 8-7-39

BOLTS		RIVETS	
Size	Quantity	Size	Quantity
1/2"	1	3/4"	1
3/8"	1	5/8"	1
1/4"	1	3/8"	1
3/16"	1	1/4"	1
1/8"	1	3/16"	1
1/16"	1	1/8"	1
3/32"	1	3/32"	1
1/32"	1	1/32"	1



SPAN	Div.	No.	REQUIRED	
			Description	Mark
3	6	2	Bottom Chord	L12-14.3W
5	1	1	"	L12-14.3E
5	1	1	"	L12-14.5W
5	1	1	"	L12-14.5E

Lorain County, Ohio
 EAST 2nd STREET BRIDGE
 Lorain, Ohio

AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT *Ambridge* PLANT.
 WORK FABRICATED AT *Ambridge* PLANT.
 IN CHARGE OF *Laughman* D.R.
 DRAW. MADE BY *RH* DATE *6/27/27*
 DRAW. CHECKED BY *CHS* DATE *7/2/27*
 ORDER No. **H 2524** SHEET No. **209**

MATERIAL: U.S. Steel A.S.T.M. A7-36
 Copper bearing 0.20 min. copper content
 SPECIFICATIONS: Special by Witour Watson & Associates also Ohio State Highway
 INSPECTION: James H. Herron Co.
 ERECTION: A.B.Co.
 RIVETS: 1/2" unless noted
 OPEN HOLES: 1/8" unless noted
 REAMING: All holes in material 3/8" thick or less subpunched 1/8" dia. and reamed to size while parts are assembled. Holes in material more than 3/8" thick shall be drilled.
 Holes for bracing and diaphragms which do not pass thru main truss material may be punched full size.
 Holes marked RT subpunched or sub-drilled 1/8" dia. and reamed to size to a metal template.
 Holes marked RA reamed while chords of trusses are assembled.

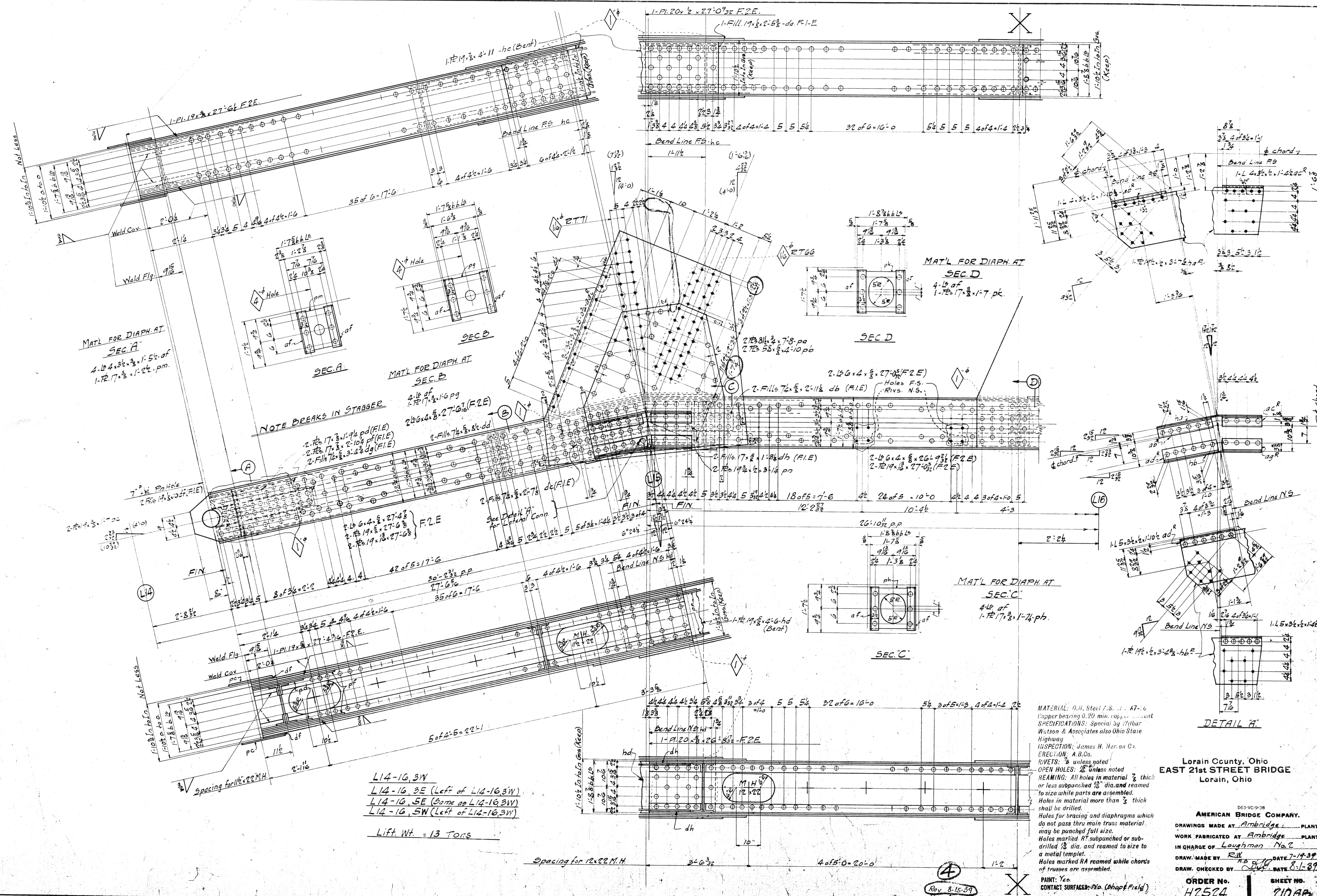
PAINT: Yes
 CONTACT SURFACES: No (Shop & Field)

L12-14.3W
 L12-14.3E (Left of L13-14.3W)
 L12-14.5E (Same as L13-14.3W)
 L12-14.5W (Left of L13-14.3W)
 Lifting Wt. = 12 TONS

25

Rev. 8-9-39

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



MAT'L FOR DIAPH. AT
SEC. A
4-1/2" of
1-7/8" x 1-1/2" pm.

NOTE BREAKS IN STAGGER

MAT'L FOR DIAPH. AT
SEC. B
4-1/2" of
1-7/8" x 1-1/2" pm.

MAT'L FOR DIAPH. AT
SEC. D
4-1/2" of
1-7/8" x 1-1/2" pm.

MAT'L FOR DIAPH. AT
SEC. C
4-1/2" of
1-7/8" x 1-1/2" pm.

L14-16, 3W
L14-16, 3E (Left of L14-16, 3W)
L14-16, 5E (Same as L14-16, 3W)
L14-16, 5W (Left of L14-16, 3W)

Lift. Wt. = 13 Tons

MATERIAL: A. H. Steel I. S. A7-6
Copper bearing 0.20 min. cup.
SPECIFICATIONS: Special by Arthur
Watson & Associates also Ohio State
Highway
INSPECTION: James H. Heron Co.
ERECTION: A. B. Co.
RIVETS: "B" unless noted
OPEN HOLES: "S" unless noted
REAMING: All holes in material 1/2" thick
or less subpunched 1/8" dia. and reamed
to size while parts are assembled.
Holes in material more than 1/2" thick
shall be drilled.
Holes for bracing and diaphragms which
do not pass thru main truss material
may be punched full size.
Holes marked RT subpunched or sub-
drilled 1/8" dia. and reamed to size to
a metal templet.
Holes marked RA reamed while chords
of trusses are assembled.
PAINT: Yes.
CONTACT SURFACES: No. (Shape Field)

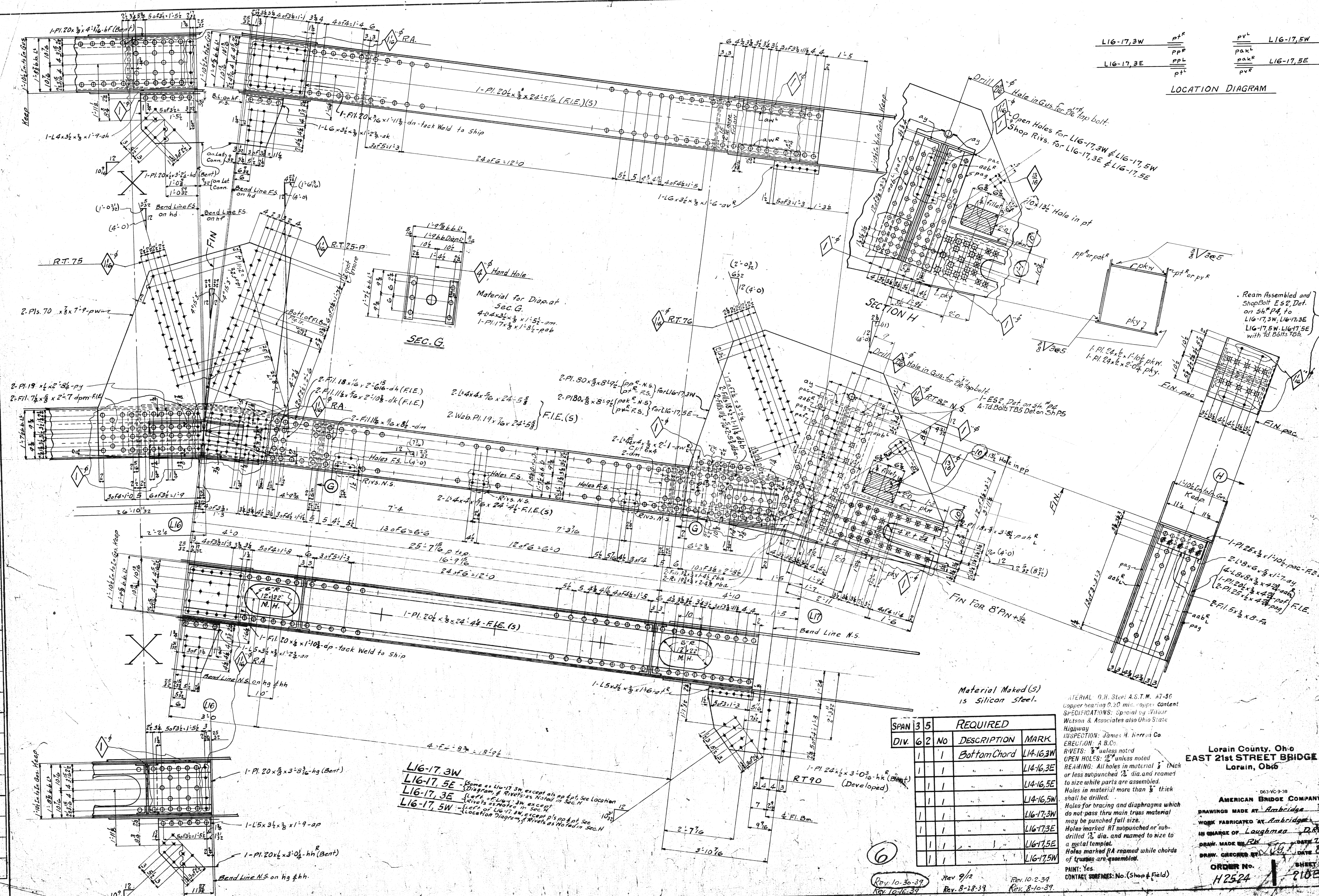
Lorain County, Ohio
EAST 21st STREET BRIDGE
Lorain, Ohio

AMERICAN BRIDGE COMPANY.
DRAWINGS MADE AT Ambridge PLANT.
WORK FABRICATED AT Ambridge PLANT.
IN CHARGE OF Loughman No. 2
DRAW. MADE BY R.W. DATE 8-1-39
DRAW. CHECKED BY J.W. DATE 8-1-39

ORDER No. H2524 SHEET No. 210AB

L16-17,3W	pt ^r	pv ^l	L16-17,5W
L16-17,3E	pp ^r	pak ^t	L16-17,5E
	pt ^c	pv ^r	

LOCATION DIAGRAM



L16-17,3W
 L16-17,5E - Same as L16-17,3W, except all rivets noted in Sec. H
 L16-17,3E - Rivets as noted in Sec. H
 L16-17,5W - Rivets as noted in Sec. H

Material Made (S)
 is Silicon Steel.

SPAN 3 5		REQUIRED	
DIV.	NO	DESCRIPTION	MARK
1	1	Bottom Chord	L14-16,3W
1	1	"	L14-16,3E
1	1	"	L14-16,5E
1	1	"	L14-16,5W
1	1	"	L16-17,3W
1	1	"	L16-17,3E
1	1	"	L16-17,5E
1	1	"	L16-17,5W

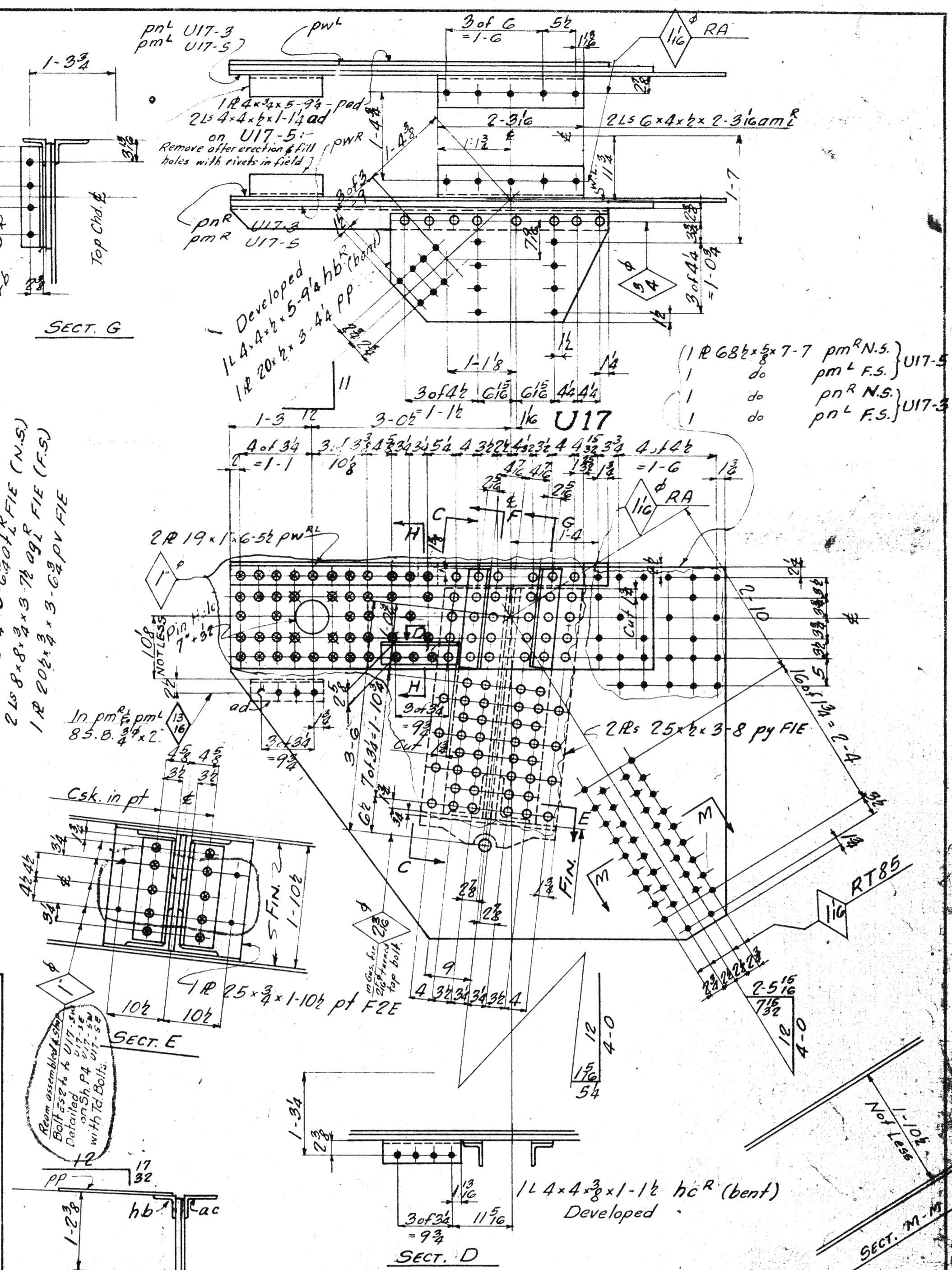
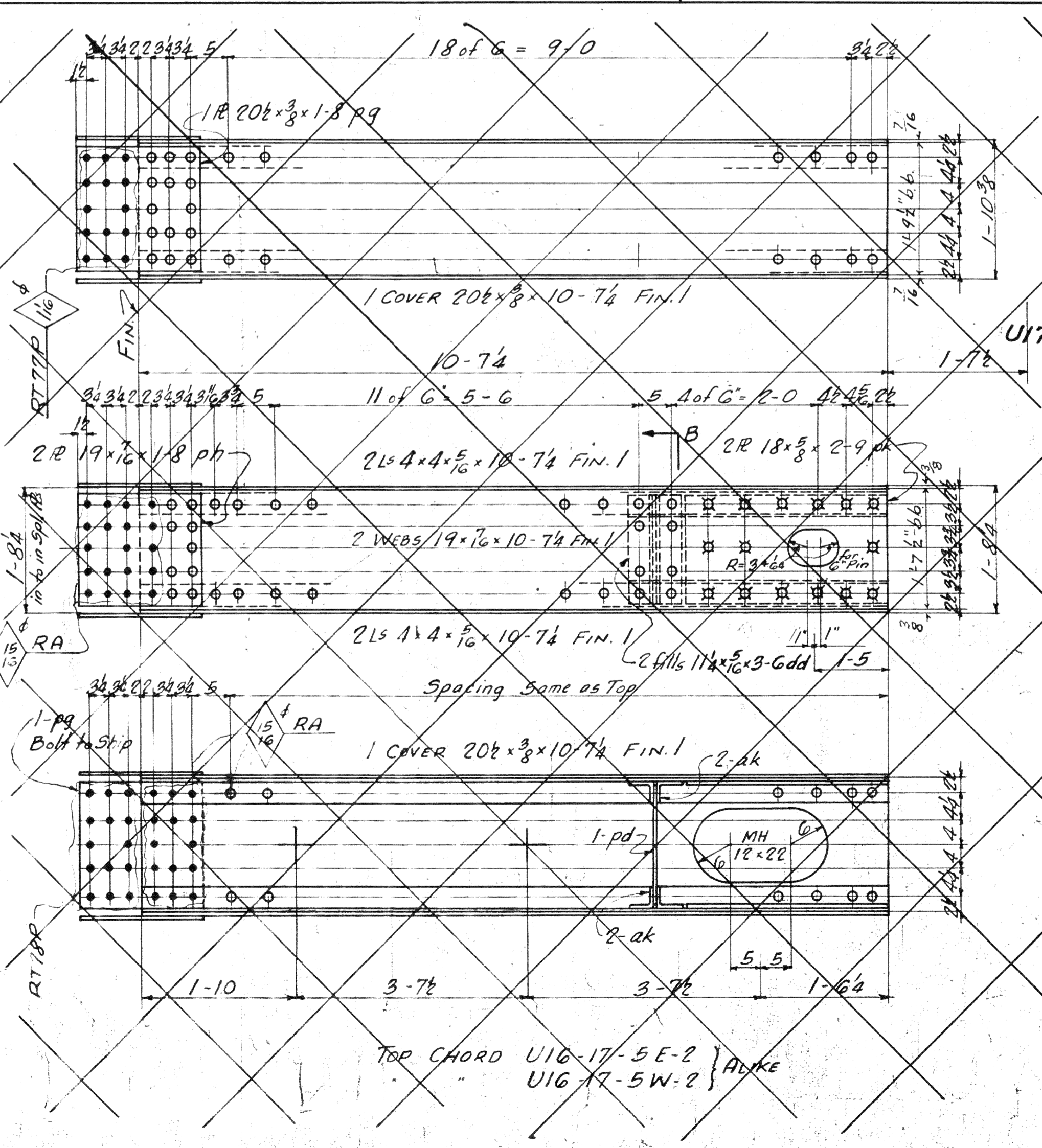
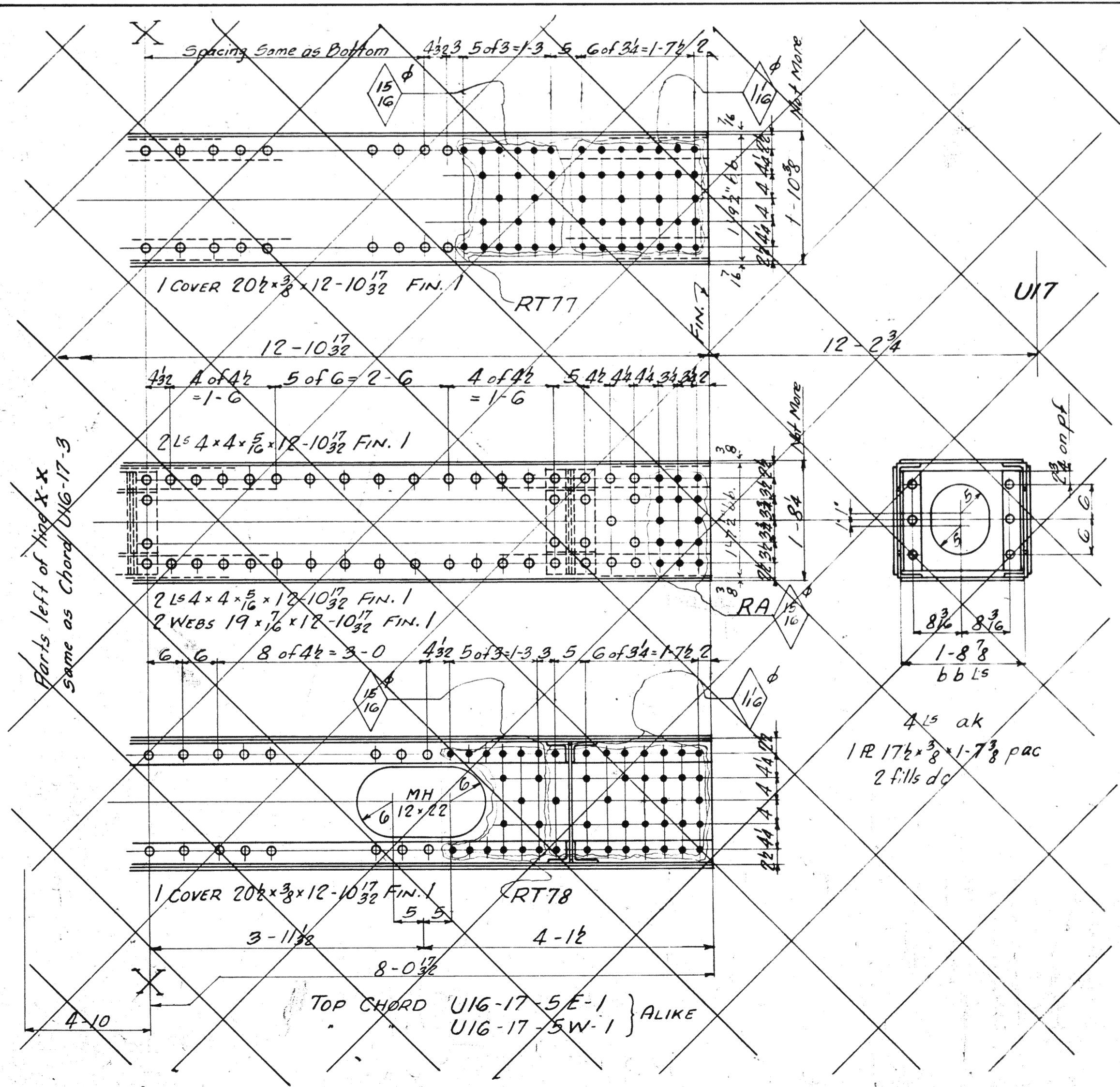
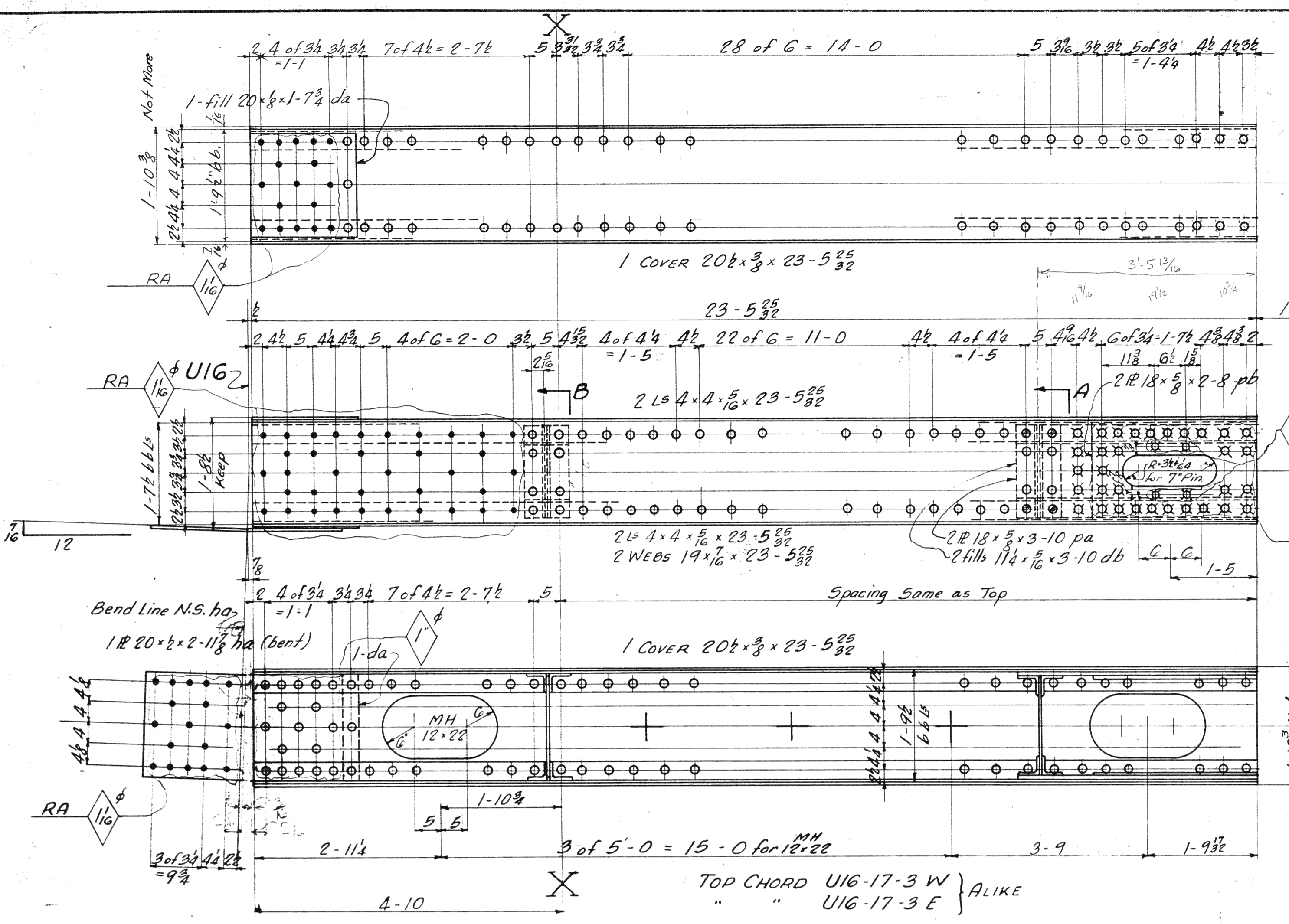
MATERIAL: A7-36 Steel, A.S.T.M. A7-36
 Copper bearing 0.20 min. copper content
 SPECIFICATIONS: Special by Wilson
 Watson & Associates also Ohio State
 Highway
 INSPECTION: James H. Herron Co.
 ERECTION: A.B.C.
 RIVETS: 3/8" unless noted
 OPEN HOLES: 1/2" unless noted
 REAMING: All holes in material 3/8" thick
 or less subpunched 1/2" dia. and reamed
 to size while parts are assembled.
 Holes in material more than 3/8" thick
 shall be drilled.
 Holes for bracing and diaphragms which
 do not pass thru main truss material
 may be punched full size.
 Holes marked RT subpunched or sub-
 drilled 1/2" dia. and reamed to size to
 a metal template.
 Holes marked RA reamed while chords
 of trusses are assembled.
 PAINT: Yes
 CONTACT SURFACES: No. (Shop & Field)

Lorain County, Ohio
 EAST 21st STREET BRIDGE
 Lorain, Ohio

AMERICAN BRIDGE COMPANY,
 DRAWING MADE AT Ambridge, PA
 WORK FABRICATED AT Ambridge, PA
 IN CHARGE OF Laughman, D.R.C.
 DRAW. MADE BY [Name]
 DRAW. CHECKED BY [Name]
 ORDER NO. H2524
 SHEET NO. 2185

Rev. 10-30-39
 Rev. 8-28-39
 Rev. 9/2
 Rev. 10-2-39
 Rev. 8-10-39

BOLTS		RIVETS	
Head	Shank	Head	Shank
1/2"	3/4"	3/4"	3/4"
3/8"	1/2"	3/4"	3/4"
1/4"	5/16"	3/4"	3/4"
3/16"	9/16"	3/4"	3/4"
1/8"	1 1/16"	3/4"	3/4"
	1 1/4"	3/4"	3/4"
	1 3/8"	3/4"	3/4"
	1 1/2"	3/4"	3/4"
	1 5/8"	3/4"	3/4"
	1 3/4"	3/4"	3/4"
	1 7/8"	3/4"	3/4"
	2"	3/4"	3/4"
	2 1/8"	3/4"	3/4"
	2 1/4"	3/4"	3/4"
	2 3/8"	3/4"	3/4"
	2 1/2"	3/4"	3/4"
	2 5/8"	3/4"	3/4"
	2 3/4"	3/4"	3/4"
	2 7/8"	3/4"	3/4"
	3"	3/4"	3/4"
	3 1/8"	3/4"	3/4"
	3 1/4"	3/4"	3/4"
	3 3/8"	3/4"	3/4"
	3 1/2"	3/4"	3/4"
	3 5/8"	3/4"	3/4"
	3 3/4"	3/4"	3/4"
	3 7/8"	3/4"	3/4"
	4"	3/4"	3/4"
	4 1/8"	3/4"	3/4"
	4 1/4"	3/4"	3/4"
	4 3/8"	3/4"	3/4"
	4 1/2"	3/4"	3/4"
	4 5/8"	3/4"	3/4"
	4 3/4"	3/4"	3/4"
	4 7/8"	3/4"	3/4"
	5"	3/4"	3/4"
	5 1/8"	3/4"	3/4"
	5 1/4"	3/4"	3/4"
	5 3/8"	3/4"	3/4"
	5 1/2"	3/4"	3/4"
	5 5/8"	3/4"	3/4"
	5 3/4"	3/4"	3/4"
	5 7/8"	3/4"	3/4"
	6"	3/4"	3/4"
	6 1/8"	3/4"	3/4"
	6 1/4"	3/4"	3/4"
	6 3/8"	3/4"	3/4"
	6 1/2"	3/4"	3/4"
	6 5/8"	3/4"	3/4"
	6 3/4"	3/4"	3/4"
	6 7/8"	3/4"	3/4"
	7"	3/4"	3/4"
	7 1/8"	3/4"	3/4"
	7 1/4"	3/4"	3/4"
	7 3/8"	3/4"	3/4"
	7 1/2"	3/4"	3/4"
	7 5/8"	3/4"	3/4"
	7 3/4"	3/4"	3/4"
	7 7/8"	3/4"	3/4"
	8"	3/4"	3/4"
	8 1/8"	3/4"	3/4"
	8 1/4"	3/4"	3/4"
	8 3/8"	3/4"	3/4"
	8 1/2"	3/4"	3/4"
	8 5/8"	3/4"	3/4"
	8 3/4"	3/4"	3/4"
	8 7/8"	3/4"	3/4"
	9"	3/4"	3/4"
	9 1/8"	3/4"	3/4"
	9 1/4"	3/4"	3/4"
	9 3/8"	3/4"	3/4"
	9 1/2"	3/4"	3/4"
	9 5/8"	3/4"	3/4"
	9 3/4"	3/4"	3/4"
	9 7/8"	3/4"	3/4"
	10"	3/4"	3/4"
	10 1/8"	3/4"	3/4"
	10 1/4"	3/4"	3/4"
	10 3/8"	3/4"	3/4"
	10 1/2"	3/4"	3/4"
	10 5/8"	3/4"	3/4"
	10 3/4"	3/4"	3/4"
	10 7/8"	3/4"	3/4"
	11"	3/4"	3/4"
	11 1/8"	3/4"	3/4"
	11 1/4"	3/4"	3/4"
	11 3/8"	3/4"	3/4"
	11 1/2"	3/4"	3/4"
	11 5/8"	3/4"	3/4"
	11 3/4"	3/4"	3/4"
	11 7/8"	3/4"	3/4"
	12"	3/4"	3/4"
	12 1/8"	3/4"	3/4"
	12 1/4"	3/4"	3/4"
	12 3/8"	3/4"	3/4"
	12 1/2"	3/4"	3/4"
	12 5/8"	3/4"	3/4"
	12 3/4"	3/4"	3/4"
	12 7/8"	3/4"	3/4"
	13"	3/4"	3/4"
	13 1/8"	3/4"	3/4"
	13 1/4"	3/4"	3/4"
	13 3/8"	3/4"	3/4"
	13 1/2"	3/4"	3/4"
	13 5/8"	3/4"	3/4"
	13 3/4"	3/4"	3/4"
	13 7/8"	3/4"	3/4"
	14"	3/4"	3/4"
	14 1/8"	3/4"	3/4"
	14 1/4"	3/4"	3/4"
	14 3/8"	3/4"	3/4"
	14 1/2"	3/4"	3/4"
	14 5/8"	3/4"	3/4"
	14 3/4"	3/4"	3/4"
	14 7/8"	3/4"	3/4"
	15"	3/4"	3/4"
	15 1/8"	3/4"	3/4"
	15 1/4"	3/4"	3/4"
	15 3/8"	3/4"	3/4"
	15 1/2"	3/4"	3/4"
	15 5/8"	3/4"	3/4"
	15 3/4"	3/4"	3/4"
	15 7/8"	3/4"	3/4"
	16"	3/4"	3/4"
	16 1/8"	3/4"	3/4"
	16 1/4"	3/4"	3/4"
	16 3/8"	3/4"	3/4"
	16 1/2"	3/4"	3/4"
	16 5/8"	3/4"	3/4"
	16 3/4"	3/4"	3/4"
	16 7/8"	3/4"	3/4"
	17"	3/4"	3/4"
	17 1/8"	3/4"	3/4"
	17 1/4"	3/4"	3/4"
	17 3/8"	3/4"	3/4"
	17 1/2"	3/4"	3/4"
	17 5/8"	3/4"	3/4"
	17 3/4"	3/4"	3/4"
	17 7/8"	3/4"	3/4"
	18"	3/4"	3/4"
	18 1/8"	3/4"	3/4"
	18 1/4"	3/4"	3/4"
	18 3/8"	3/4"	3/4"
	18 1/2"	3/4"	3/4"
	18 5/8"	3/4"	3/4"
	18 3/4"	3/4"	3/4"
	18 7/8"	3/4"	3/4"
	19"	3/4"	3/4"
	19 1/8"	3/4"	3/4"
	19 1/4"	3/4"	3/4"
	19 3/8"	3/4"	3/4"
	19 1/2"	3/4"	3/4"
	19 5/8"	3/4"	3/4"
	19 3/4"	3/4"	3/4"
	19 7/8"	3/4"	3/4"
	20"	3/4"	3/4"



SPAN 3		SPAN 5		REQUIRED	
Div. 1	Div. 2	Div. 1	Div. 2	DESCRIPTION	MARK
1	1	1	1	Top Chord	U16-17-3W
1	1	1	1		U16-17-3E
1	1	1	1	Gusset IR	U17-3W
1	1	1	1		U17-3E
1	1	1	1		U17-5W
1	1	1	1		U17-5E

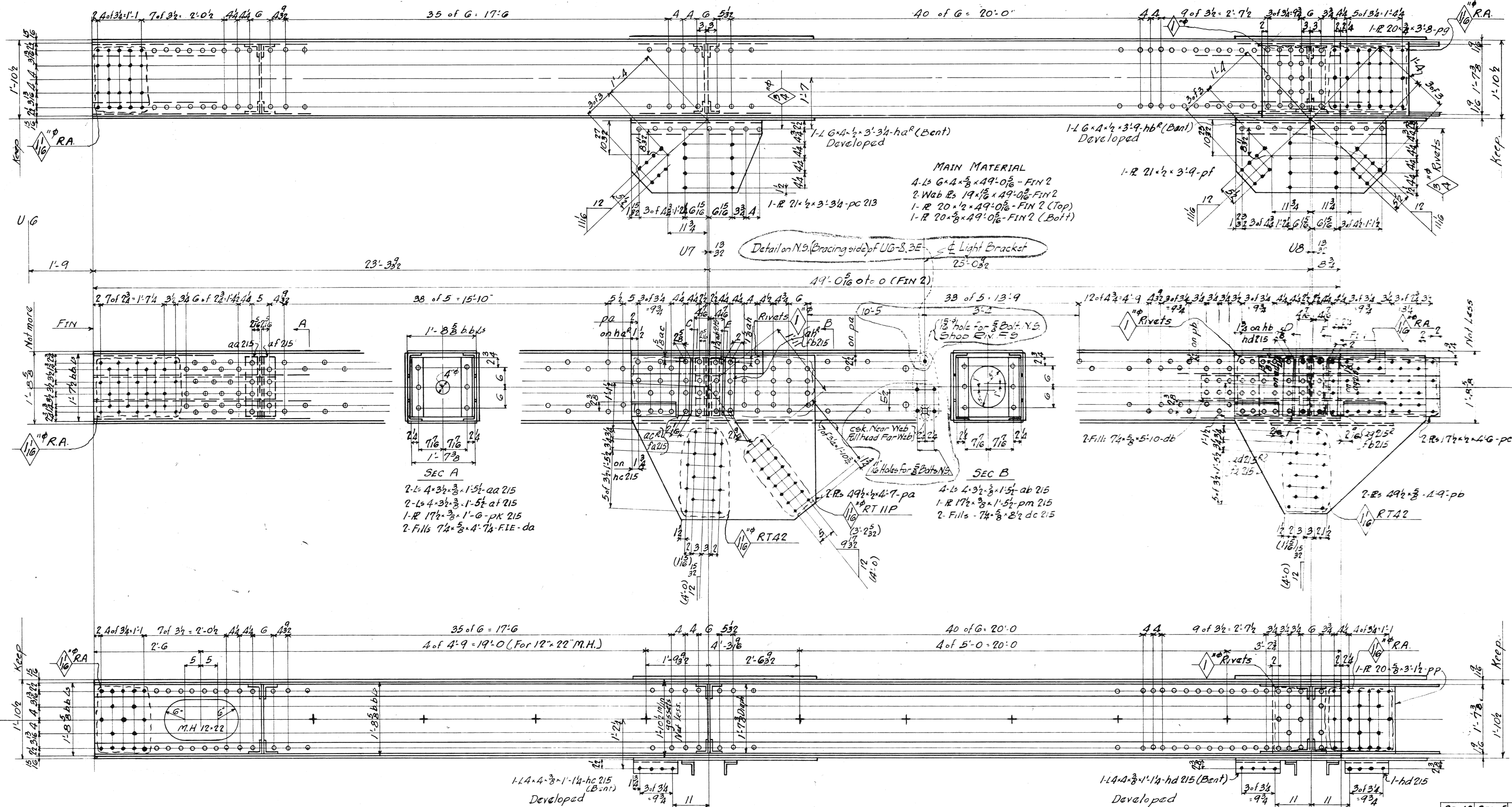
MATERIAL: A. I. Steel A.S.T.M. A7-6
 Copper bearing 0.20 min. copy
 SPECIFICATIONS: Special by Wilbur
 Wilton & Associates also Ohio State
 Highway
 INSPECTION: James H. Heron on C.
 ERECTION: A. B. Co.
 RIVETS: 7/8 unless noted
 OPEN HOLES: 1 1/2 unless noted
 REAMING: All holes in material 7/8 thick
 or less subpunched 1 1/2 dia. and reamed
 to size while parts are assembled.
 Holes in material more than 7/8 thick
 shall be drilled.
 Holes for bracing and diaphragms which
 do not pass thru main truss material
 may be punched full size.
 Holes marked RT subpunched or sub-
 drilled 1 1/2 dia. and reamed to size to
 a metal templet.
 Holes marked RA reamed while chords
 or trusses are assembled.

PAINT: Yes
 CONTACT SURFACES: No - Shop & Field

Lorain County, Ohio
EAST 21st STREET BRIDGE
 Lorain, Ohio

AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT Ambridge
 WORK FABRICATED AT Ambridge
 IN CHARGE OF Loughman #2
 DRAW. MADE BY J. J. D. DATE 7-22-32
 DRAW. CHECKED BY ALC. DATE 7-27-32
 ORDER NO. H2524 SHEET 211

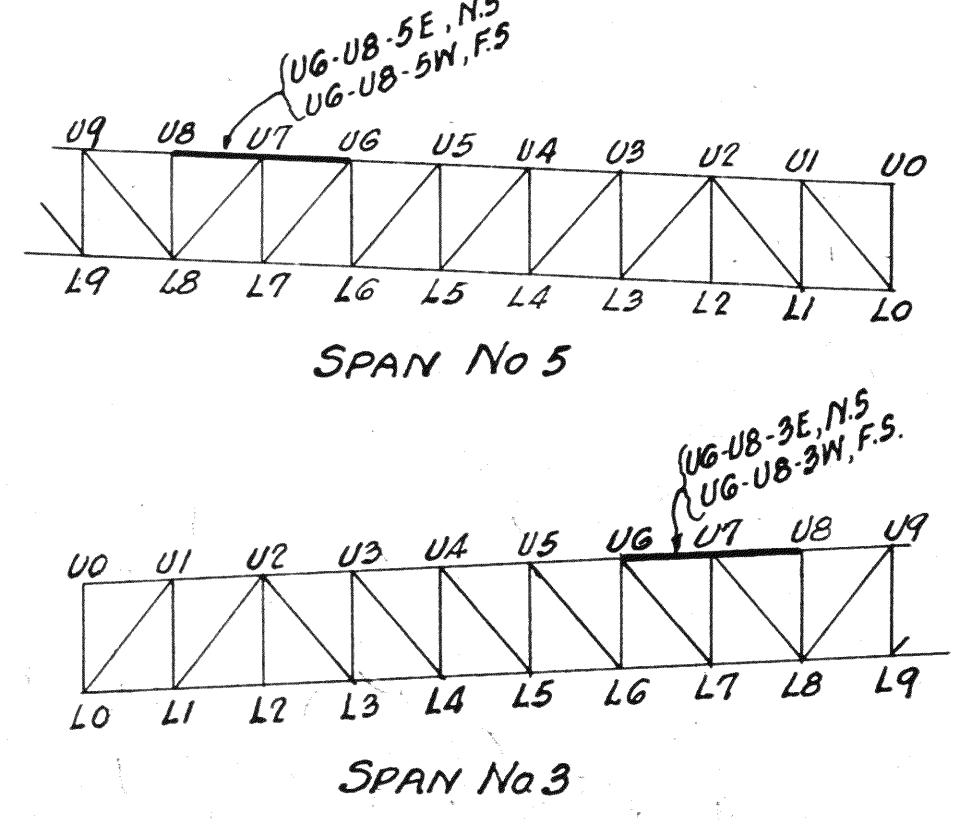
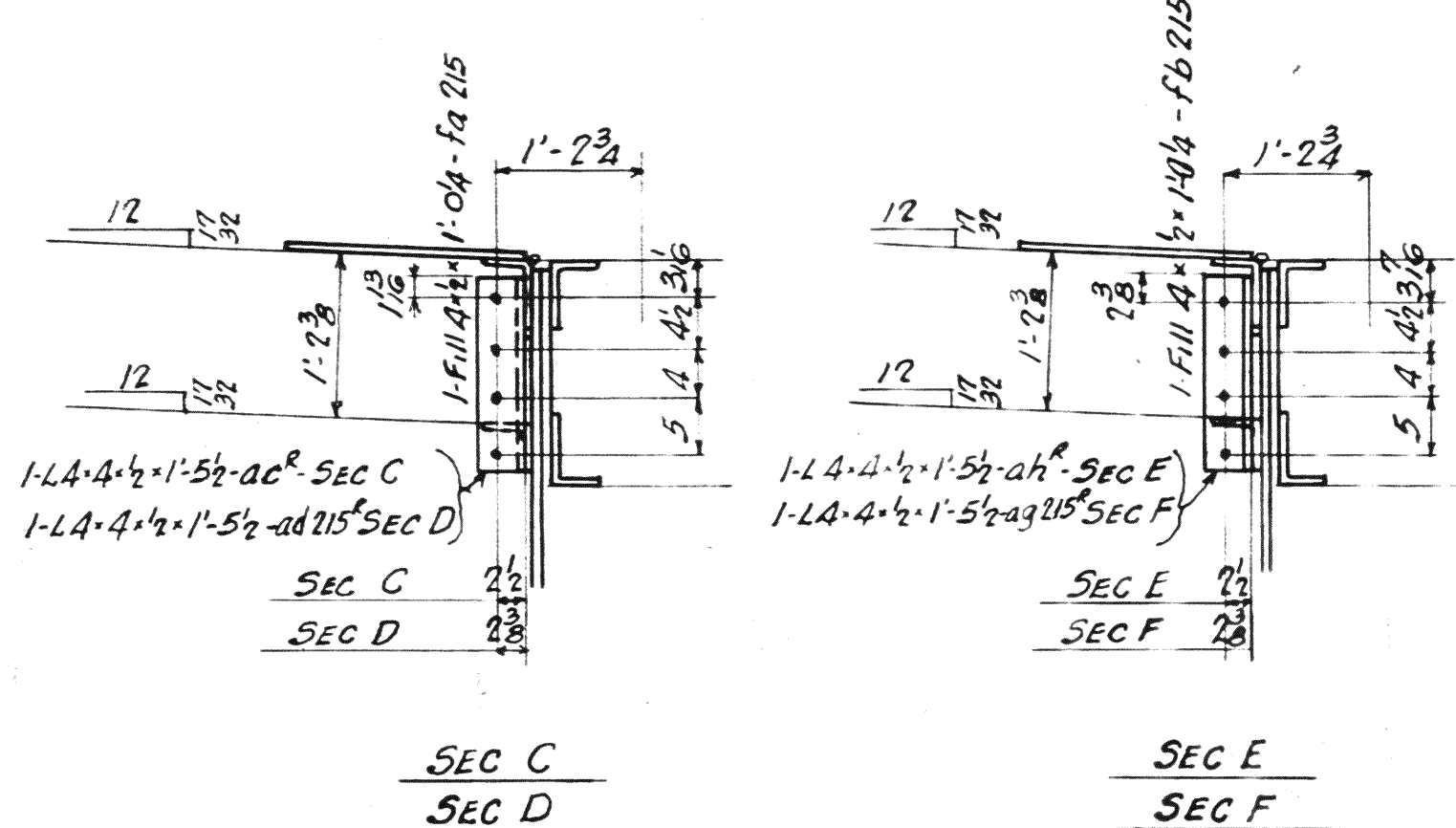
BOLTS		RIVETS		RIVETS		RIVETS		RIVETS		RIVETS	
Size	Head	Size	Head	Size	Head	Size	Head	Size	Head	Size	Head



UG-UB-3W } ALIKE
 UG-UB-5E }
 UG-UB-3E (Left of UG-3,3W except as noted for Light Bracket Conn.)
 UG-UB-5W (Left of UG-3,3W.)

LIFTING WT. - 9 TONS

SPAN 3			SPAN 5		REQUIRED	
Div 6	Div 2	Total	Description	Mark		
1		1	Top Chord	UG-UB-3W		
	1	1	do	UG-UB-5E		
1		1	do	UG-UB-3E		
	1	1	do	UG-UB-5W		



MATERIAL: U.S. Steel A.S.T.A. A7-16
 Copper bearing 9.20 min. copper content
SPECIFICATIONS: Special by Wilbur
 Wilson & Associates also Ohio State
 Highway
INSPECTION: James H. Heron Co.
ERECTION: A.B.Co.
RIVETS: $\frac{7}{8}$ unless noted
OPEN HOLES: $\frac{1}{8}$ unless noted
HEAVINESS: All holes in material $\frac{3}{8}$ thick
 or less subpunched $\frac{1}{2}$ " dia. and reamed
 to size while parts are assembled.
 Holes in material more than $\frac{7}{8}$ " thick
 shall be drilled.
 Holes for bracing and diaphragms which
 do not pass thru main truss material
 may be punched full size.
 Holes marked RT subpunched or sub-
 drilled $\frac{1}{2}$ " dia. and reamed to size to
 a metal template.
 Holes marked RA reamed while chords
 of trusses are assembled.
PAINT: Yes
CONTACT SURFACES: No-Shopy Field

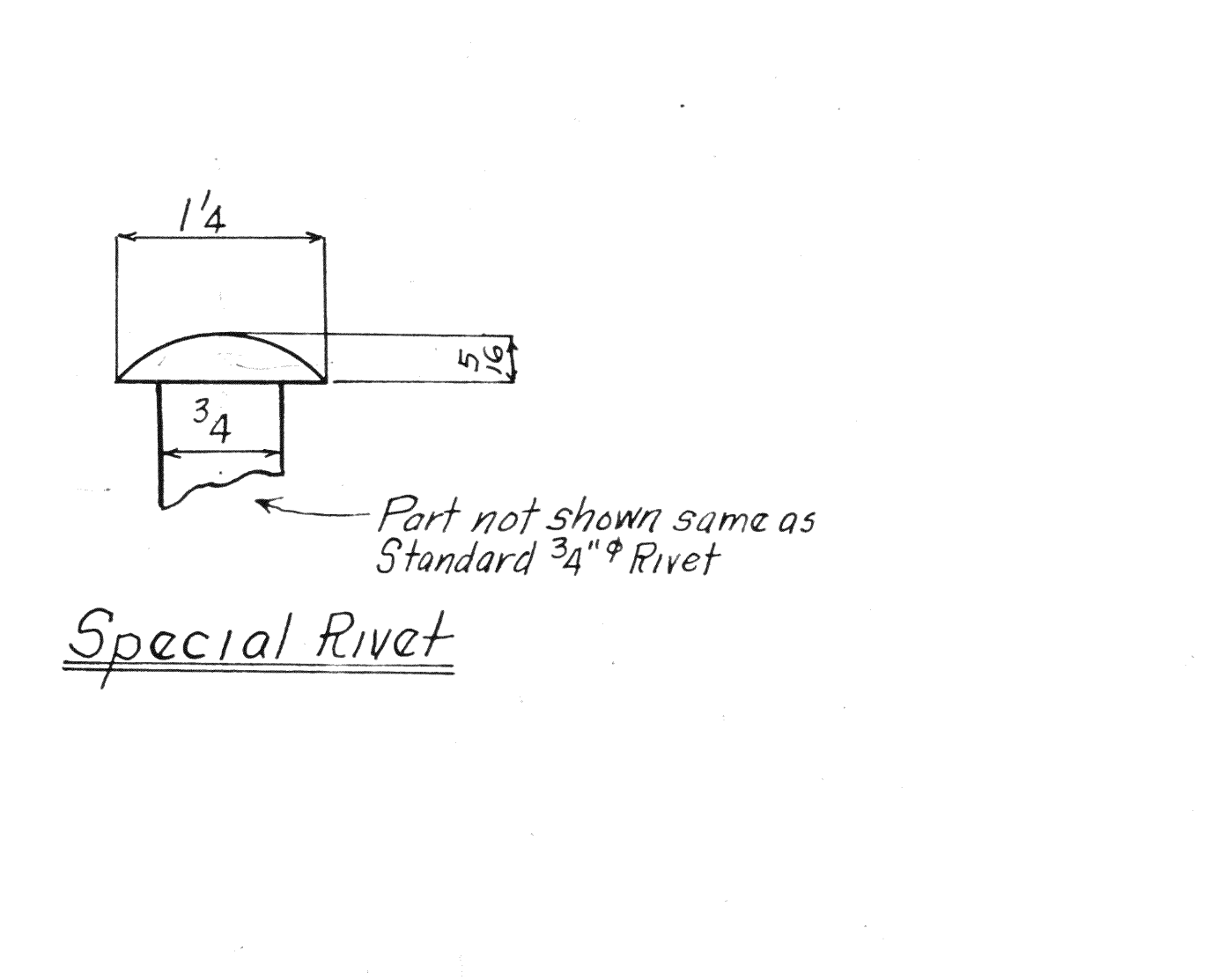
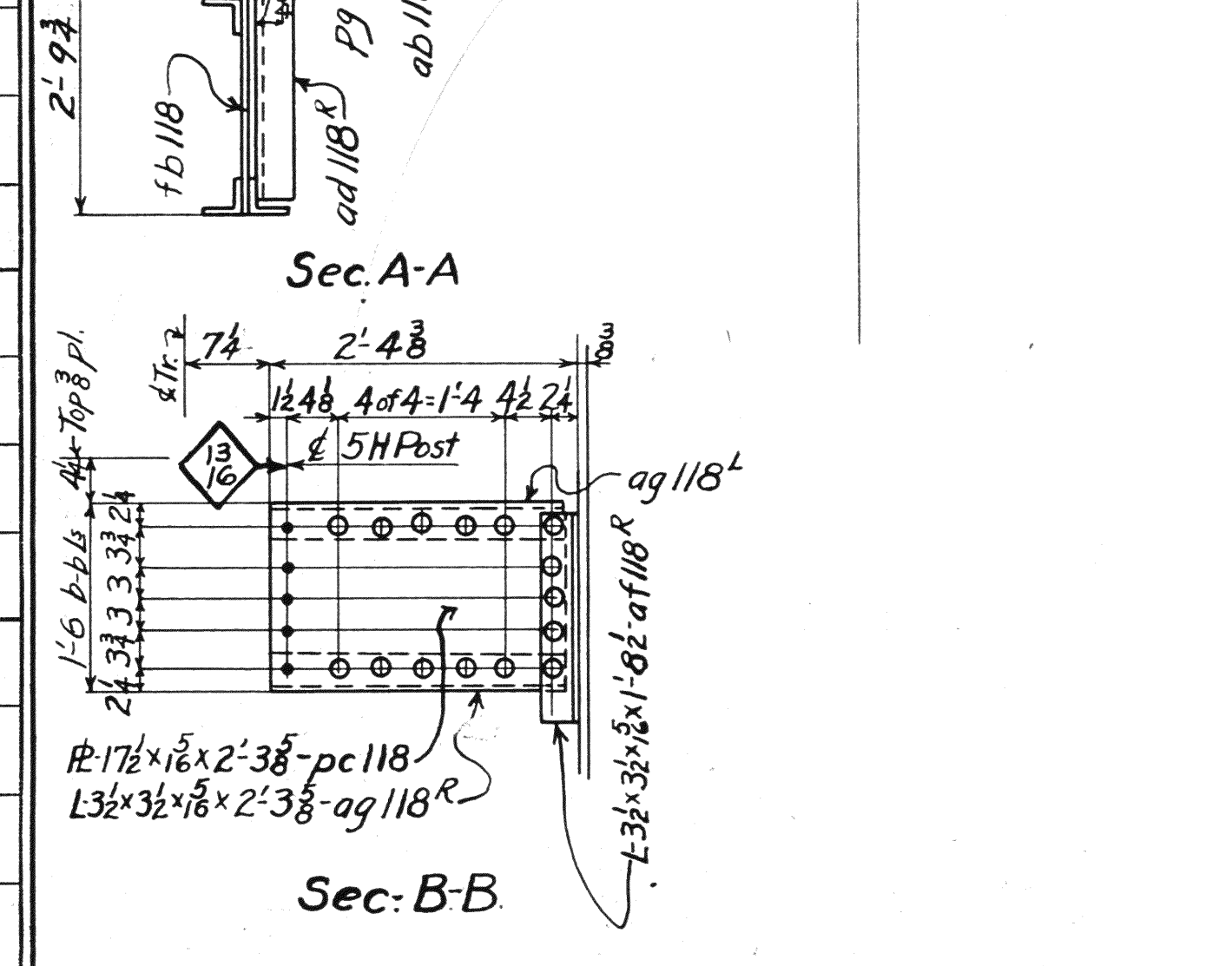
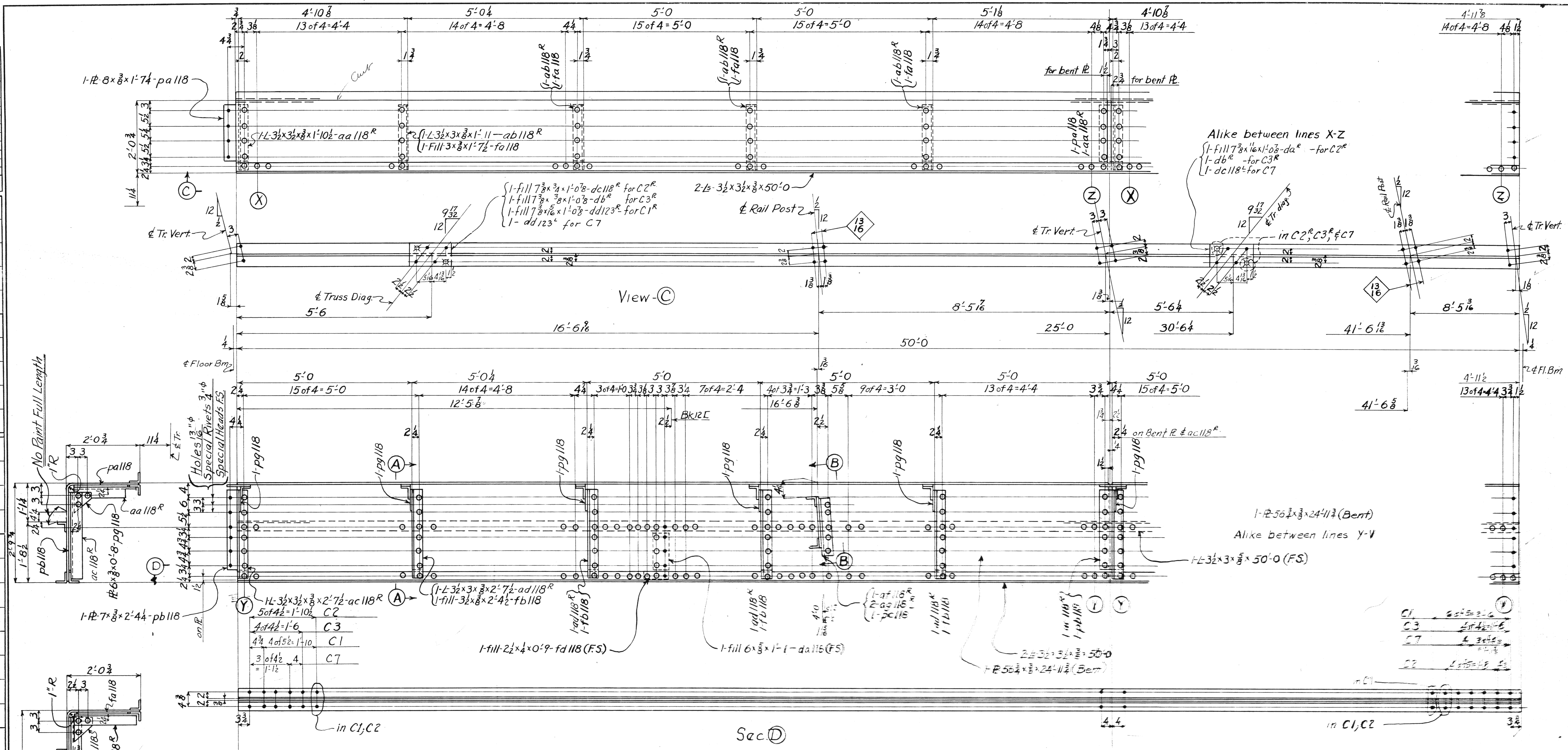
4

Lorain County, Ohio
EAST 21st STREET BRIDGE
 Lorain, Ohio

D63-VC-9-38
AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT Ambridge PLANT.
 WORK FABRICATED AT Amb PLANT.
 IN CHARGE OF Loughman #2
 DRAW. MADE BY ERM-JLB DATE 6-27-39
 DRAW. CHECKED BY ALC DATE 7-12-39
ORDER No. H2524 **SHEET No.** 215

Rev S-21-39

BOLTS		RIVETS		RIVETS		RIVETS		RIVETS		RIVETS	
Di.	Grp.	Di.	Grp.	Di.	Grp.	Di.	Grp.	Di.	Grp.	Di.	Grp.



Sec. D
 C1^R
 C2^R
 C3^R
 C7 (Left)

Span 3 Div. 6	Span 1 Div. 4	Span 5 Div. 2	Required		
			Na	Description	Mark
1		1	1	Curbs	C1 ^R
			1	do	C1 ^L
		1	1	do	C2 ^R
		1	1	do	C2 ^L
		1	1	do	C3 ^R
	1		1	do	C3 ^L
			1	do	C7

East Curb.
 Lorain County, Ohio
EAST 21st STREET BRIDGE
 Lorain, Ohio

D63-VC-9-38
AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT **Ambridge** PLANT.
 WORK FABRICATED AT **Ambridge** PLANT.
 IN CHARGE OF **Loughman DR #2**
 DRAW. MADE BY **H.R.F.** W.R. DATE **6-13-39**
 DRAW. CHECKED BY **HEL** DATE **7/9/39**

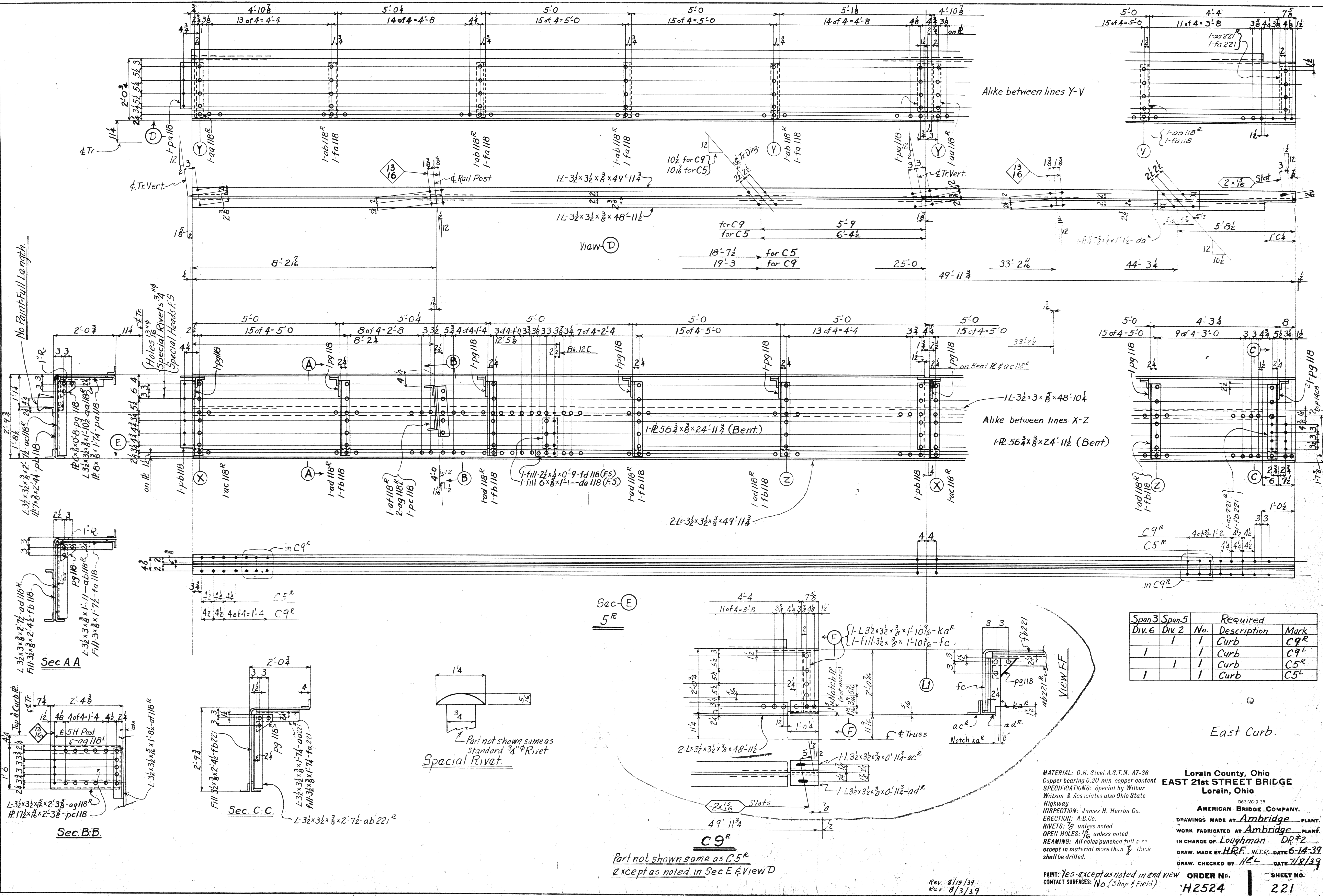
MATERIAL: O.H. Steel A.S.T.M. A7-36
 Copper bearing 0.20 min. copper content
 SPECIFICATIONS: Special by Wilbur
 Watson & Associates also Ohio State
 Highway
 INSPECTION: James H. Herron Co.
 ERECTION: A.B.Co.
 RIVETS: "B" unless noted
 OPEN HOLES: 1/16" unless noted
 REAMING: All holes punched full size
 except in material more than 7/8" thick
 shall be drilled.

PAINT: Yes-except as noted in End View
 CONTACT SURFACES: No (Shop & Field)

ORDER NO. **H 2524** SHEET NO. **220**

Rev 8/18/39
 Rev. 8/15/39

BOLTS		RIVETS		RIVETS		RIVETS		RIVETS		RIVETS	
Size	Head	Size	Head	Size	Head	Size	Head	Size	Head	Size	Head



Alike between lines Y-V

Alike between lines X-Z
 1-R 56 3/8 x 8 x 24'-11 3/4 (Bent)

Span	Div. 6	Span	Div. 2	No.	Description	Mark
3	1	5	1	1	Curb	C9 ^R
	1		1	1	Curb	C9 ^L
	1		1	1	Curb	C5 ^R
	1		1	1	Curb	C5 ^L

East Curb.

MATERIAL: O.H. Steel A.S.T.M. A7-36
 Copper bearing 0.20 min. copper content
 SPECIFICATIONS: Special by Wilbur Watson & Associates also Ohio State Highway
 INSPECTION: James H. Herron Co.
 ERECTION: A.B.Co.
 RIVETS: 7/8 unless noted
 OPEN HOLES: 1/2 unless noted
 REAMING: All holes punched full size except in material more than 3/8 thick shall be drilled.
 PAINT: Yes - except as noted in and view CONTACT SURFACES: No. (Shop & Field)

Lorain County, Ohio
EAST 21st STREET BRIDGE
 Lorain, Ohio

AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT **Ambridge** PLANT.
 WORK FABRICATED AT **Ambridge** PLANT.
 IN CHARGE OF **Loughman** DR#2
 DRAW. MADE BY **H.R.F.** W.T.R. DATE **6-14-39**
 DRAW. CHECKED BY **H.E.L.** DATE **7/8/39**

ORDER No. **H2524** SHEET No. **221**

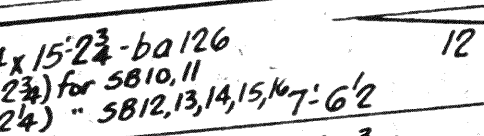
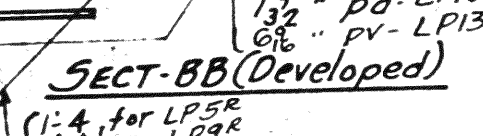
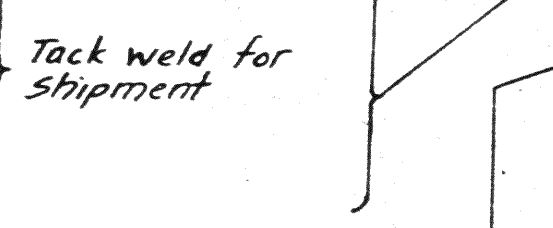
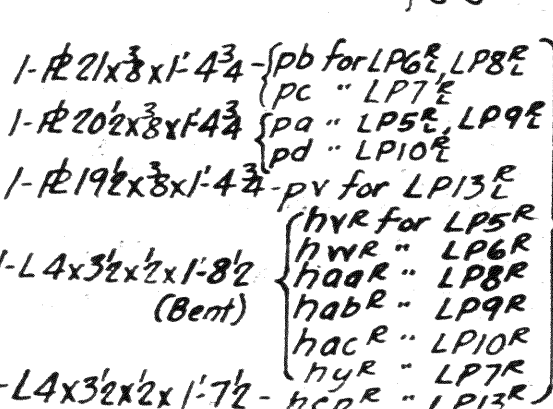
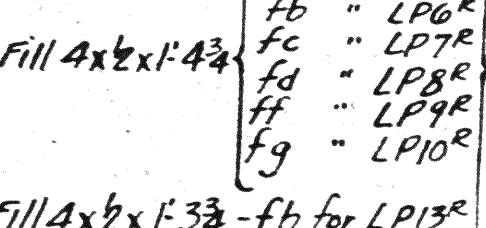
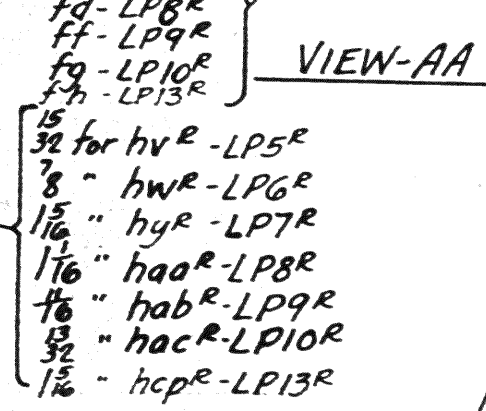
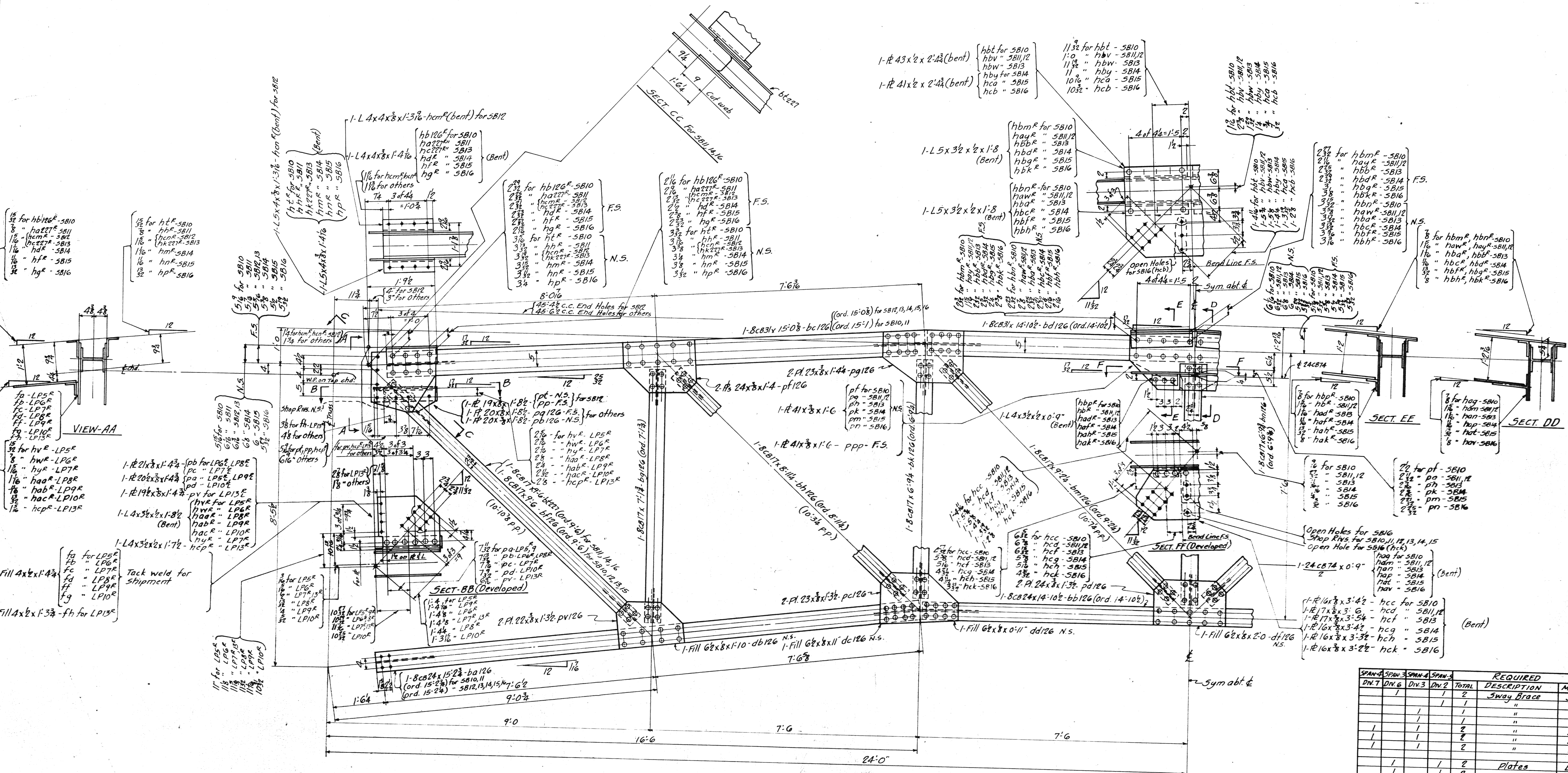
Sec E
 5^R

C9^R

Part not shown same as C5^R
 except as noted in Sec E & View D

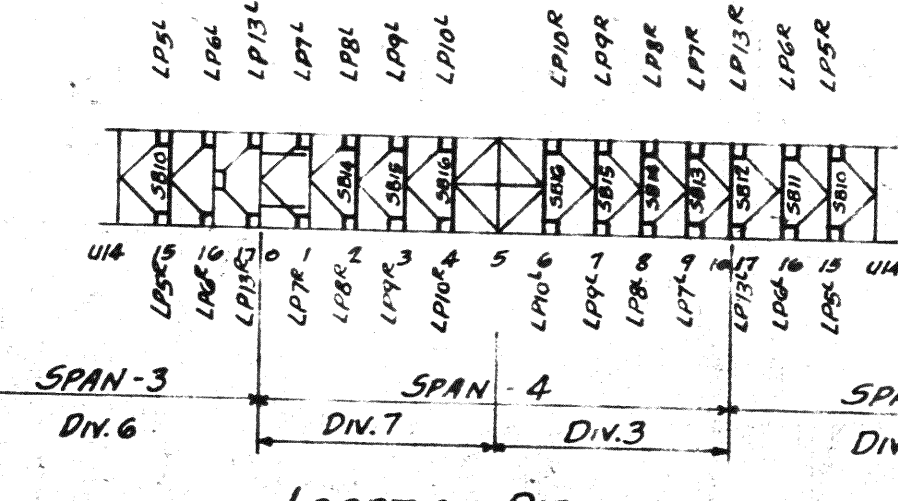
Rev. 8/15/39
 Rev. 8/3/39

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
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----



SWAY BRACE - SB10

"	"	- SB11 - Same as SB10, except as noted at end of Top chd. E of Top chd. at E
"	"	- SB12 - " " " " " " " "
"	"	- SB13 - " " " " " " " "
"	"	- SB14 - " " " " " " " "
"	"	- SB15 - " " " " " " " "
"	"	- SB16 - " " " " " " " "



SPAN 4	SPAN 3	SPAN 4	SPAN 3	TOTAL	REQUIRED DESCRIPTION	MARK
1	1	1	1	4	SWAY BRACE	SB10
					"	SB11
					"	SB12
					"	SB13
					"	SB14
					"	SB15
					"	SB16
					Plates	LP5R
					"	LP5L
					"	LP6R
					"	LP6L
					"	LP7R
					"	LP7L
					"	LP8R
					"	LP8L
					"	LP9R
					"	LP9L
					"	LP10R
					"	LP10L
					"	LP11R
					"	LP11L

MATERIAL: O. H. Steel A.S.T.M. A7-36
 Copper bearing 0.20 min. copper content
 SPECIFICATIONS: Special by Wilbur
 Watson & Associates also Ohio State
 Highway
 INSPECTION: James H. Herron Co.
 ERECTION: A. B. Co.
 RIVETS: 3/8" unless noted
 OPEN HOLES: 1/8" unless noted
 REMAINING: All holes punched full size
 except in material more than 3/8" thick
 shall be drilled.

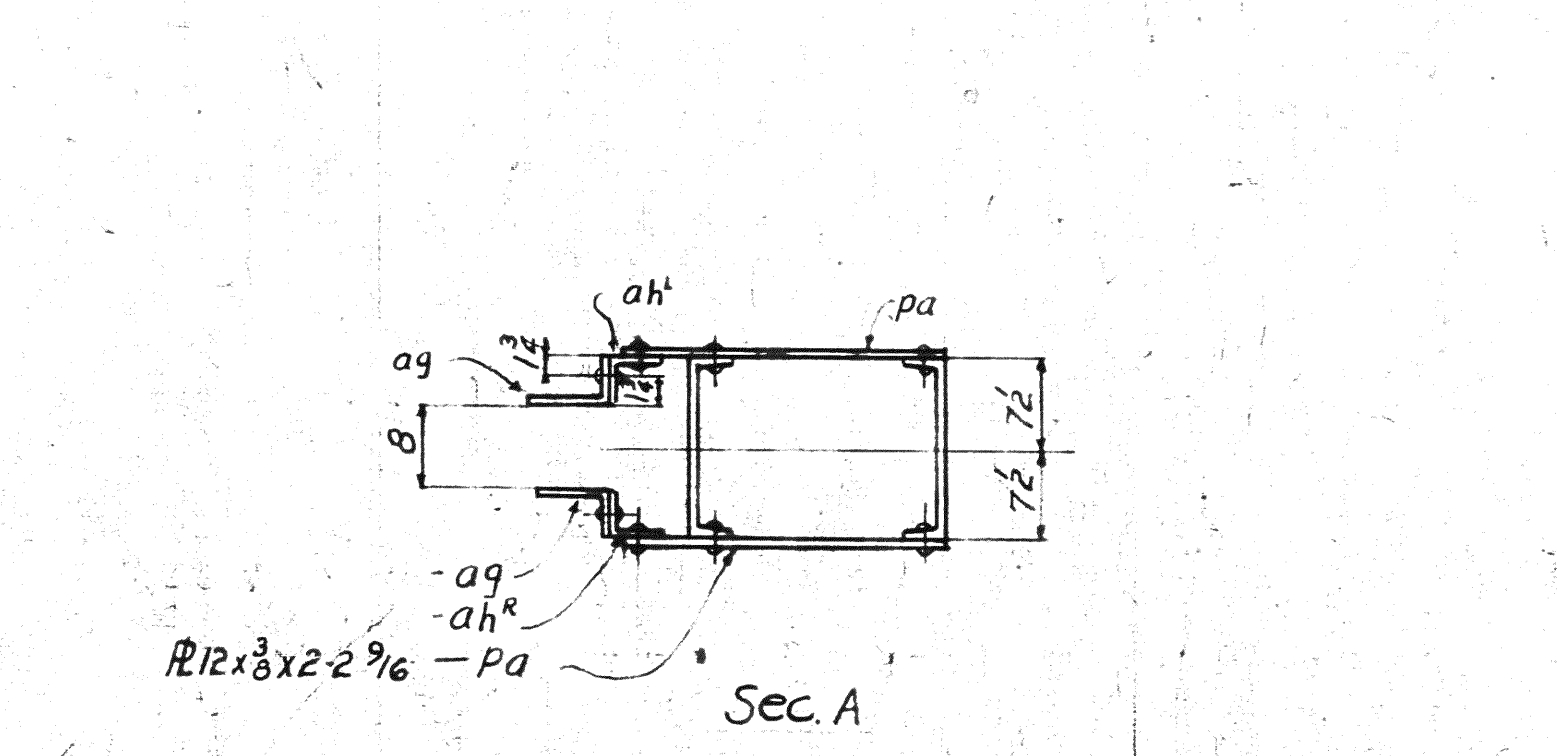
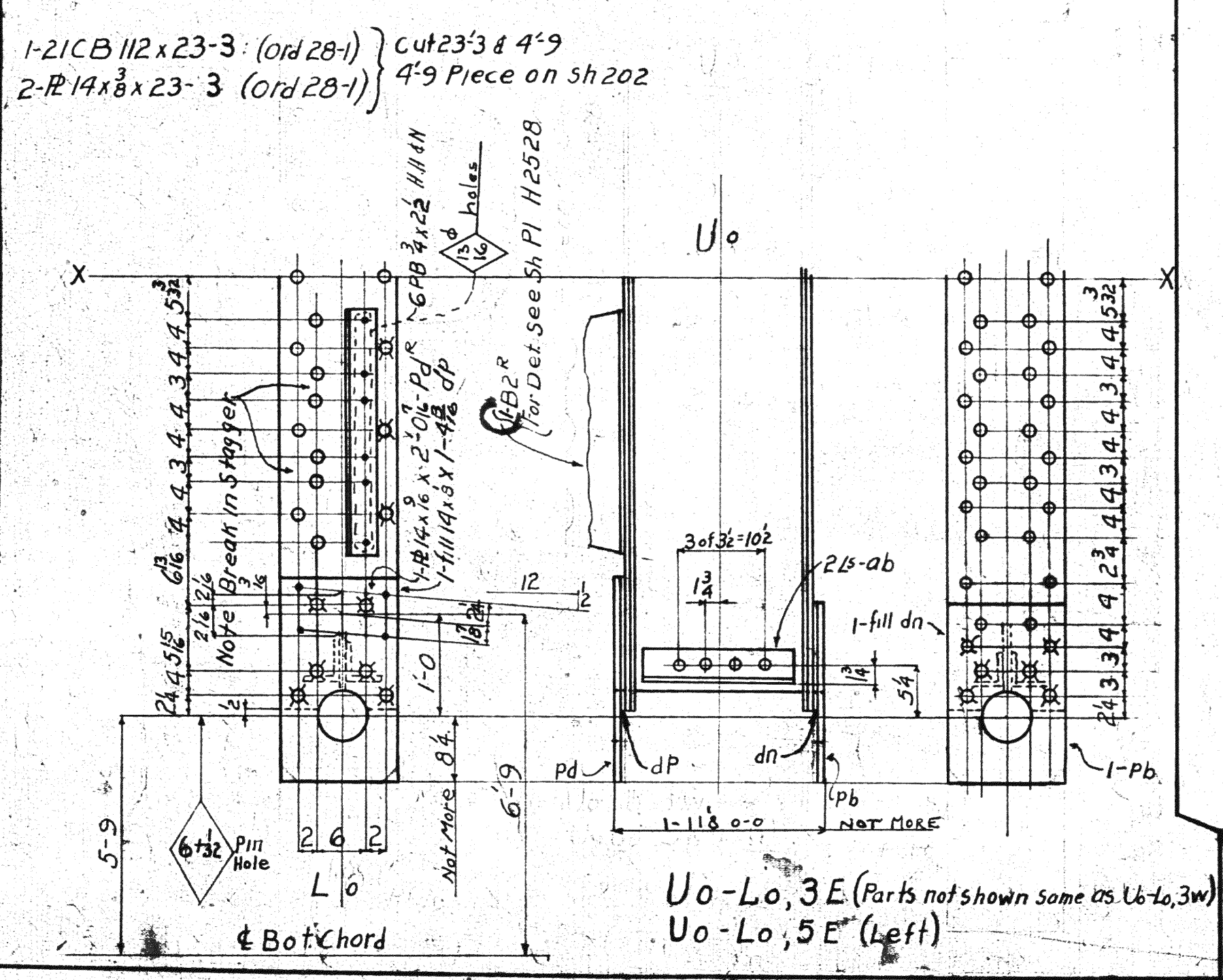
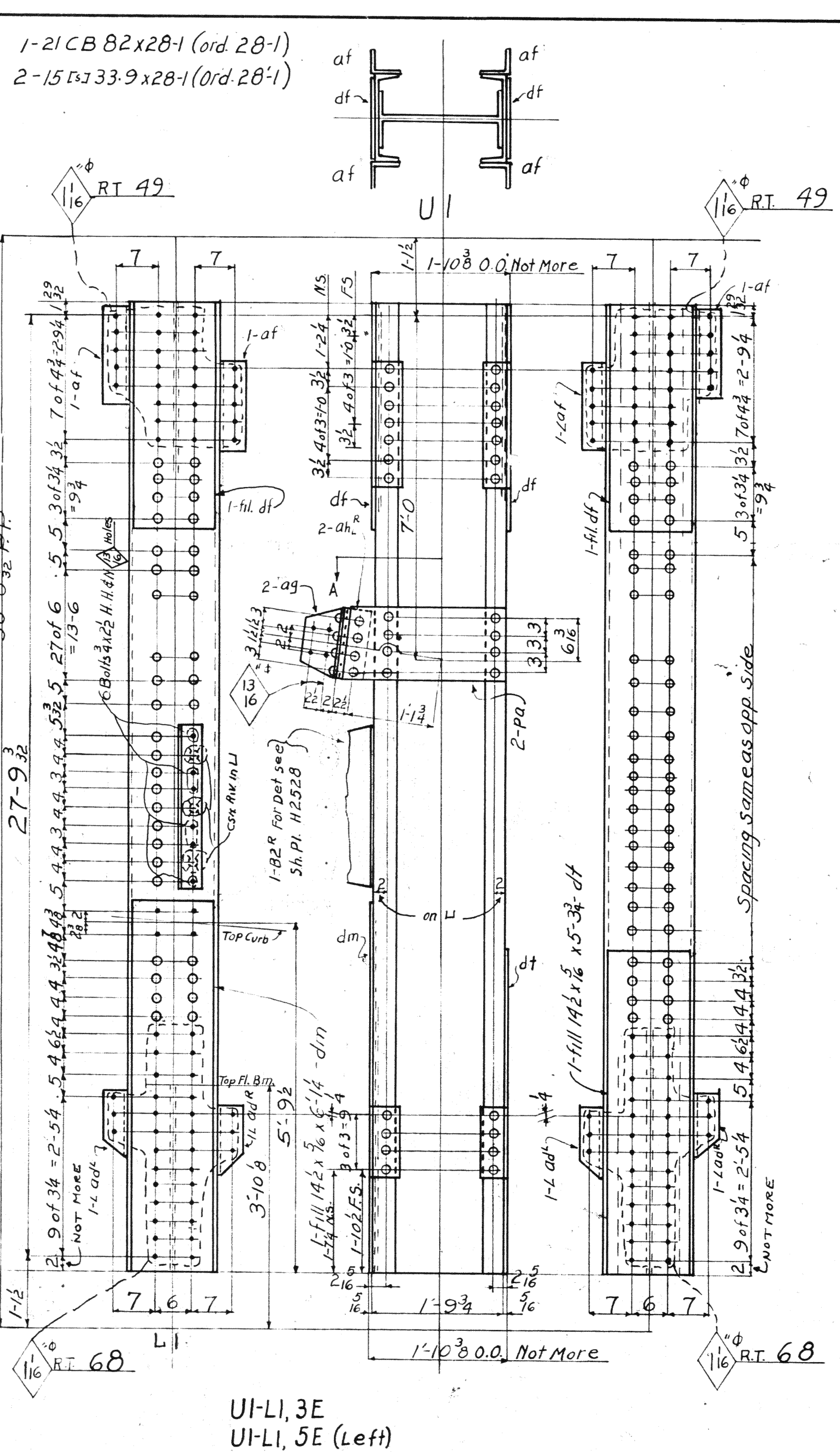
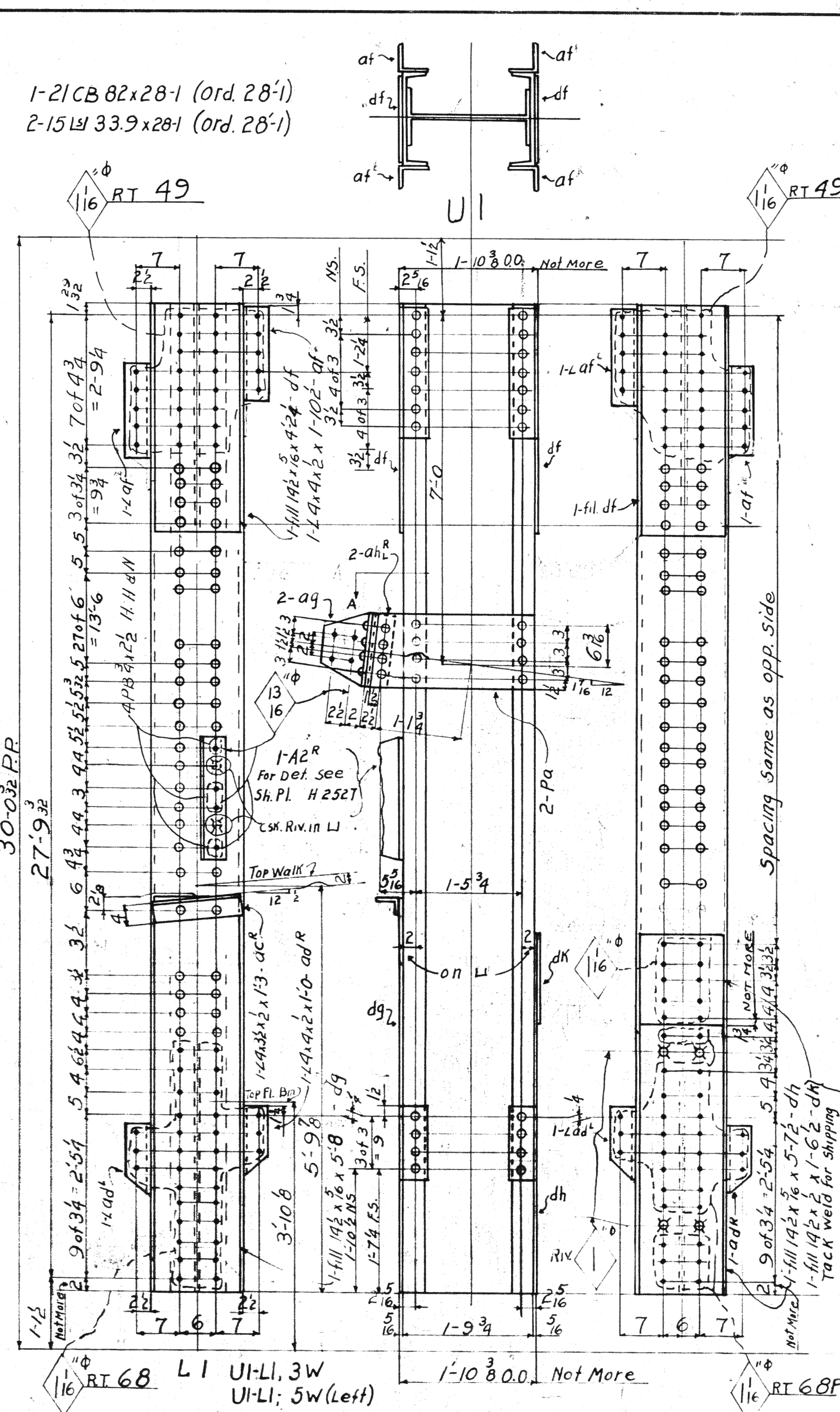
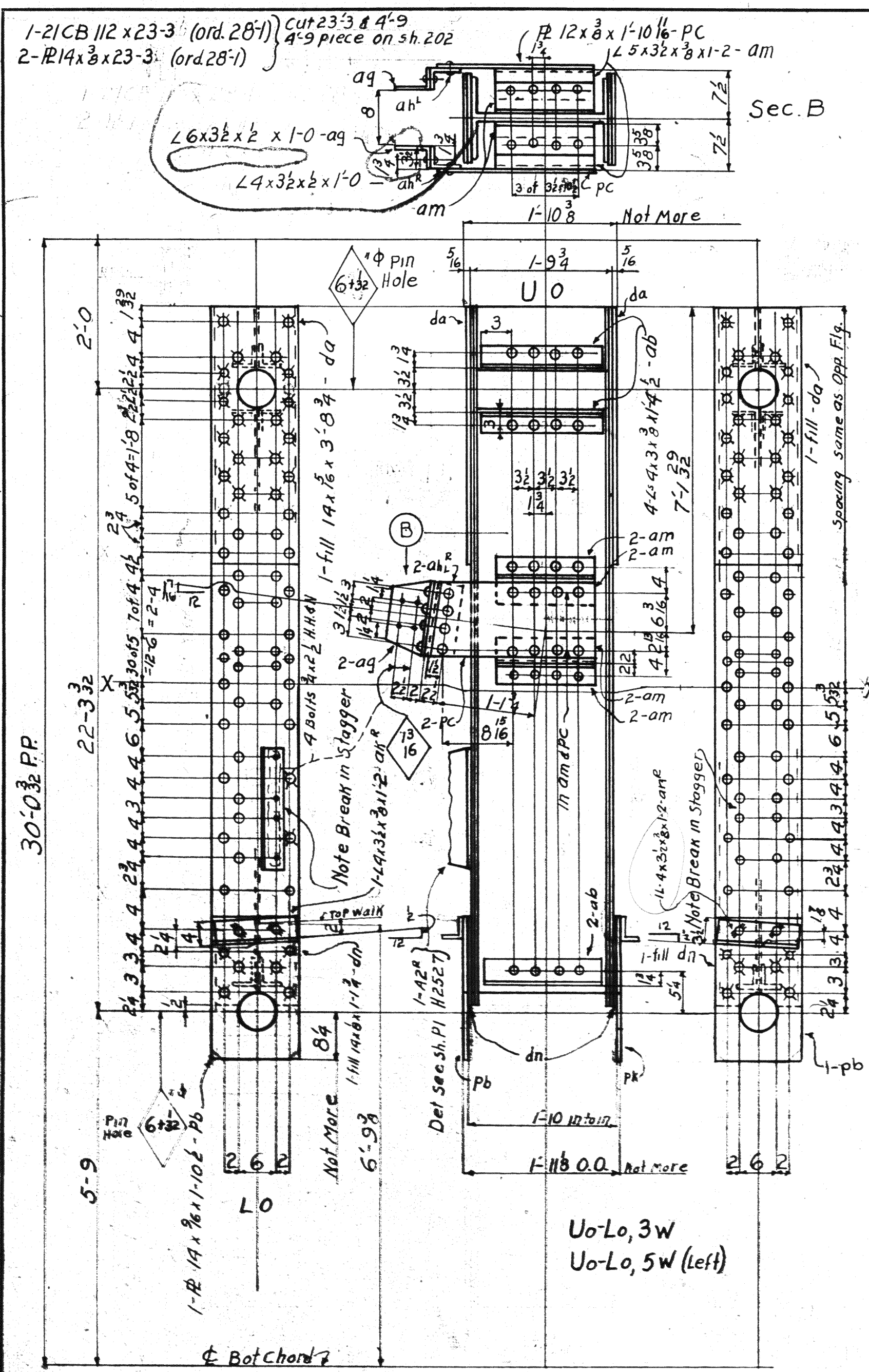
Lorain County, Ohio
EAST 21st STREET BRIDGE
 Lorain, Ohio

AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT Ambridge PLANT.
 WORK FABRICATED AT Ambridge PLANT.
 IN CHARGE OF Laughman D.R.#
 DRAW. MADE BY ALH DATE 7-20-39
 DRAW. CHECKED BY DGP DATE 7-27-39

PAINT: Yes
 CONTACT SURFACES: No, Shop & Field

ORDER No. H252A SHEET No. 227

Rev. 3-10-39



Span 5		Span 3		REQUIRED	
Div. 2	Div. 6	Total	Description	Mark	
1	1	1	Vertical	Uo-Lo, 3W	
1	1	1	do	Uo-Lo, 5W	
1	1	1	do	Uo-Lo, 3E	
1	1	1	do	Uo-Lo, 5E	
1	1	1	do	Uo-L1, 3W	
1	1	1	do	Uo-L1, 5W	
1	1	1	do	Uo-L1, 3E	
1	1	1	do	Uo-L1, 5E	

MATERIAL: O.H. Steel A.S.T.A. A7-6
Copper bearing U. 20 min. copper content
SPECIFICATIONS: Special by Arthur
Watson & Associates also Ohio State
Highway
INSPECTION: James H. Herron Co.
ERECTION: A.B. Co.
RIVETS: 7/8 unless noted
OPEN HOLES: 1/2 unless noted
REAMING: All holes in material 3/8 thick
or less subpunched 1/2 dia. and reamed
to size while parts are assembled.
Holes in material more than 3/8 thick
shall be drilled.
Holes for bracing and diaphragms which
do not pass thru main truss material
may be punched full size.
Holes marked RT subpunched or sub-
drilled 1/2 dia. and reamed to size to
a metal template.

Lorain County, Ohio
EAST 21st STREET BRIDGE
Lorain, Ohio

AMERICAN BRIDGE COMPANY.
DRAWINGS MADE AT Ambridge PLANT.
WORK FABRICATED AT Ambridge PLANT.

IN CHARGE OF Loughman DR #2
DRAW. MADE BY B.A.C. DATE 6-21-39
DRAW. CHECKED BY S.J.T. DATE 7-27-39

ORDER NO. H2524 SHEET NO. 230

Rev. 8-14-39
Rev. 8-9-39

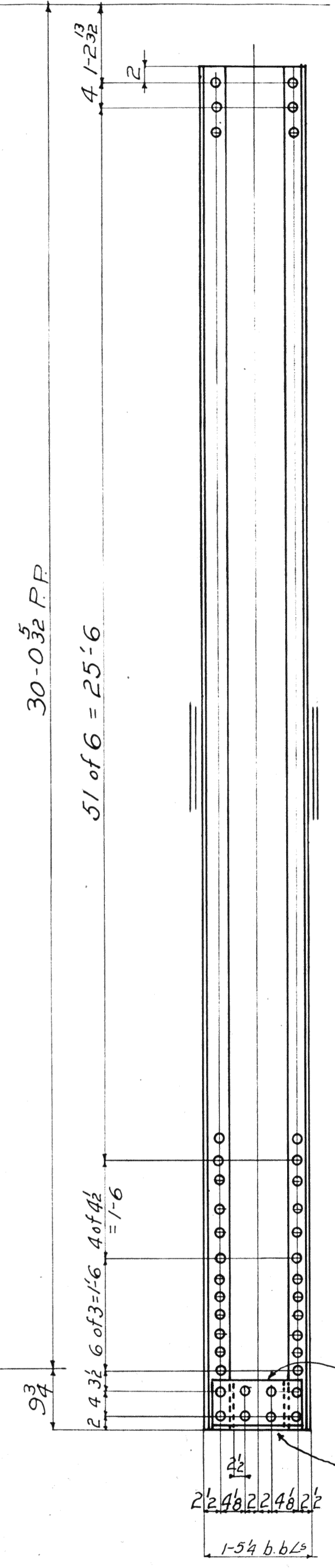
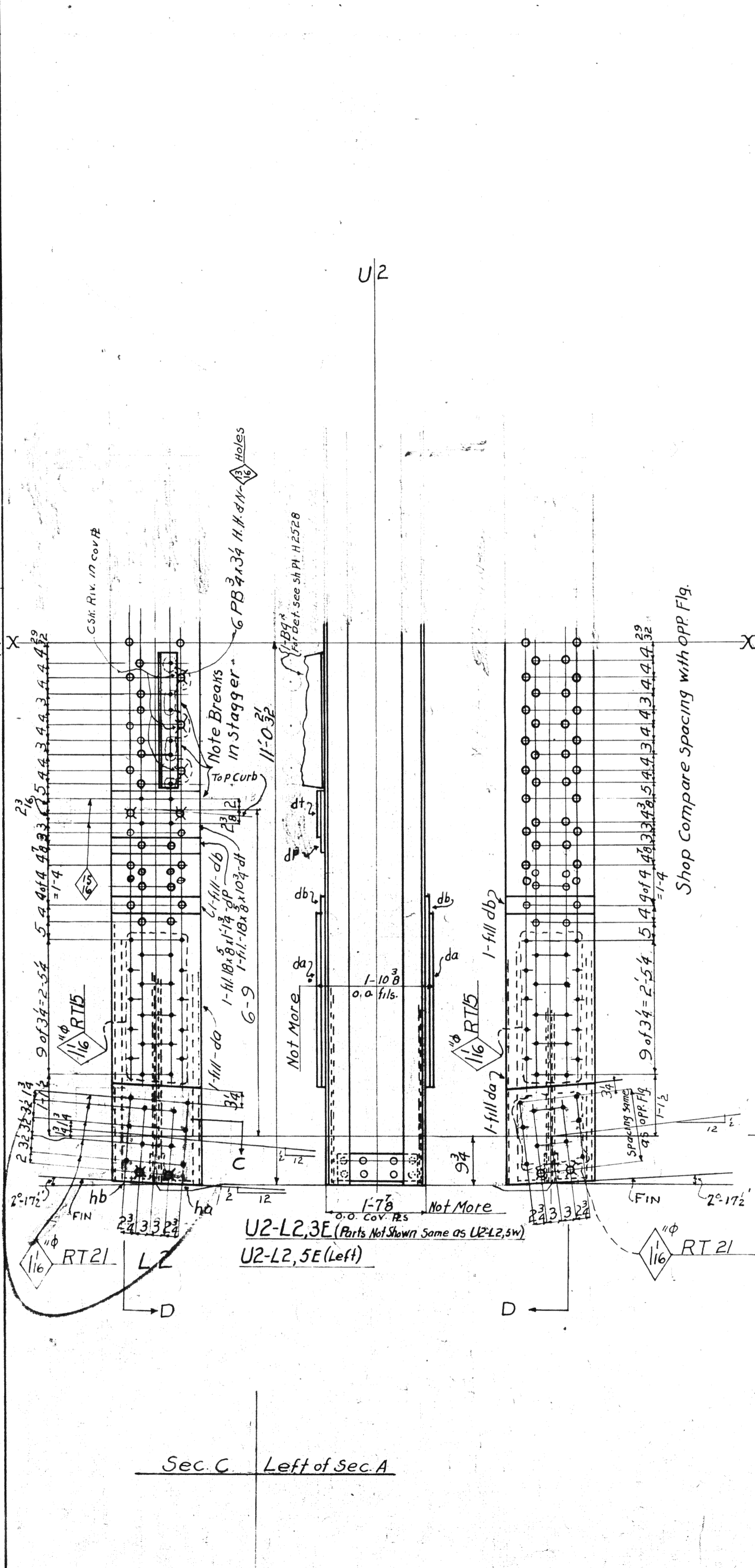
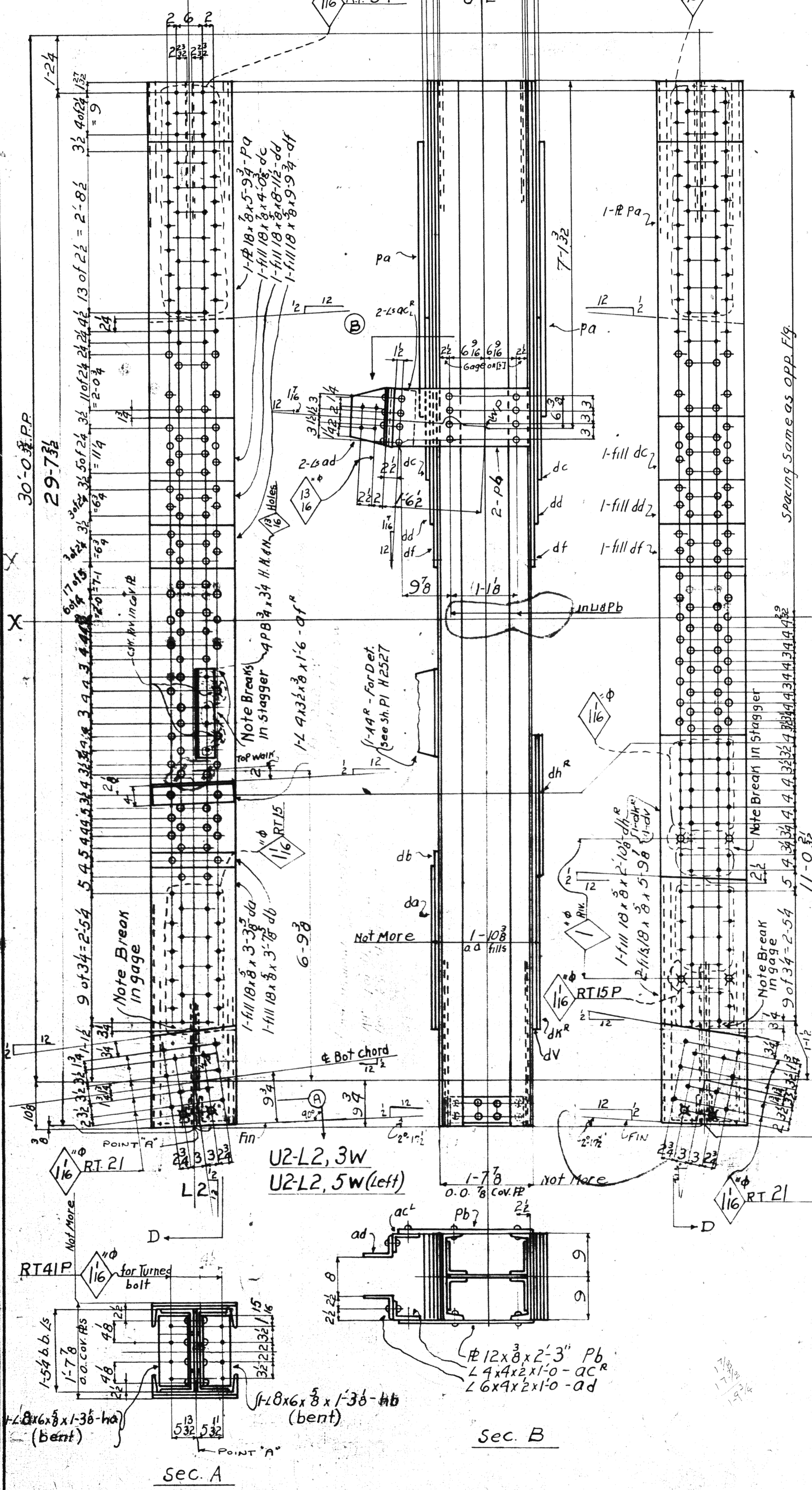


PAINT: Yes
CONTACT SURFACES: No Shop & Field, except
2E-70's Permanently welded arc,
1a be painted.

Main Material
 1-Web Plate 16 3/4 x 3/8 x 29'-9 1/2" Fin. I End (ord. 29-104)
 2-18 1/2 x 4 1/2 x 29'-9 1/2" Fin. I End (ord. 29-108)
 2-15 7/8 x 3/4 x 29'-9 1/2" Fin. I End
 2-15 7/8 x 3/4 x 29'-9 1/2" Fin. I End
 2-Cov. Plates 18 3/8 x 29'-9 1/2" Fin. I End

2'-0 3/8 in. in lap Not Less
 1'-10 3/8 o.o. fil. dd - Not More
 1'-7 3/8 1'-7 3/8 o.o. Cov. Pls
 1'-6 3/8 b.b. - 18" [5]
 1'-5 3/4 b.b. - 18"

Main Material
 1-Web Plate 16 3/4 x 3/8 x 29'-9 1/2" Fin. I End (ord. 29-104)
 2-18 1/2 x 4 1/2 x 29'-9 1/2" Fin. I End (ord. 29-108)
 2-15 7/8 x 3/4 x 29'-9 1/2" Fin. I End
 2-15 7/8 x 3/4 x 29'-9 1/2" Fin. I End
 2-Cov. Pl. 18 3/8 x 29'-9 1/2" Fin. I End



Span		Total	REQUIRED	
Div	Div		Description	Mark
1	1	1	Vertical	U2-L2,3W
		1	do	U2-L2,5W
		1	do	U2-L2,3E
		1	do	U2-L2,5E

MATERIAL: O.H. Steel A.S.T.I. A7-16
 Copper bearing 0.20 min. copper content
 SPECIFICATIONS: Special by Wilbur Watson & Associates also Ohio State Highway
 INSPECTION: James H. Harvan Co.
 ERECTION: A.B.Co.
 RIVETS: 7/8 unless noted
 OPEN HOLES: AS noted 7/8
 REAMING: All holes in material 7/8 thick or less subpunched 13/16 dia. and reamed to size while parts are assembled.
 Holes in material more than 7/8 thick shall be drilled.
 Holes for bracing and diaphragms which do not pass thru main truss material may be punched full size.
 Holes marked RT subpunched or sub-drilled 1/2 dia. and reamed to size to a metal templet.

Lorain County, Ohio
 EAST 21st STREET BRIDGE
 Lorain, Ohio

AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT Ambridge PLANT.
 WORK FABRICATED AT Ambridge PLANT.
 IN CHARGE OF Loughman D.R.#2
 DRAW. MADE BY B.A.C. DATE 6-30-39
 DRAW. CHECKED BY S.J.T. DATE 7-20-39

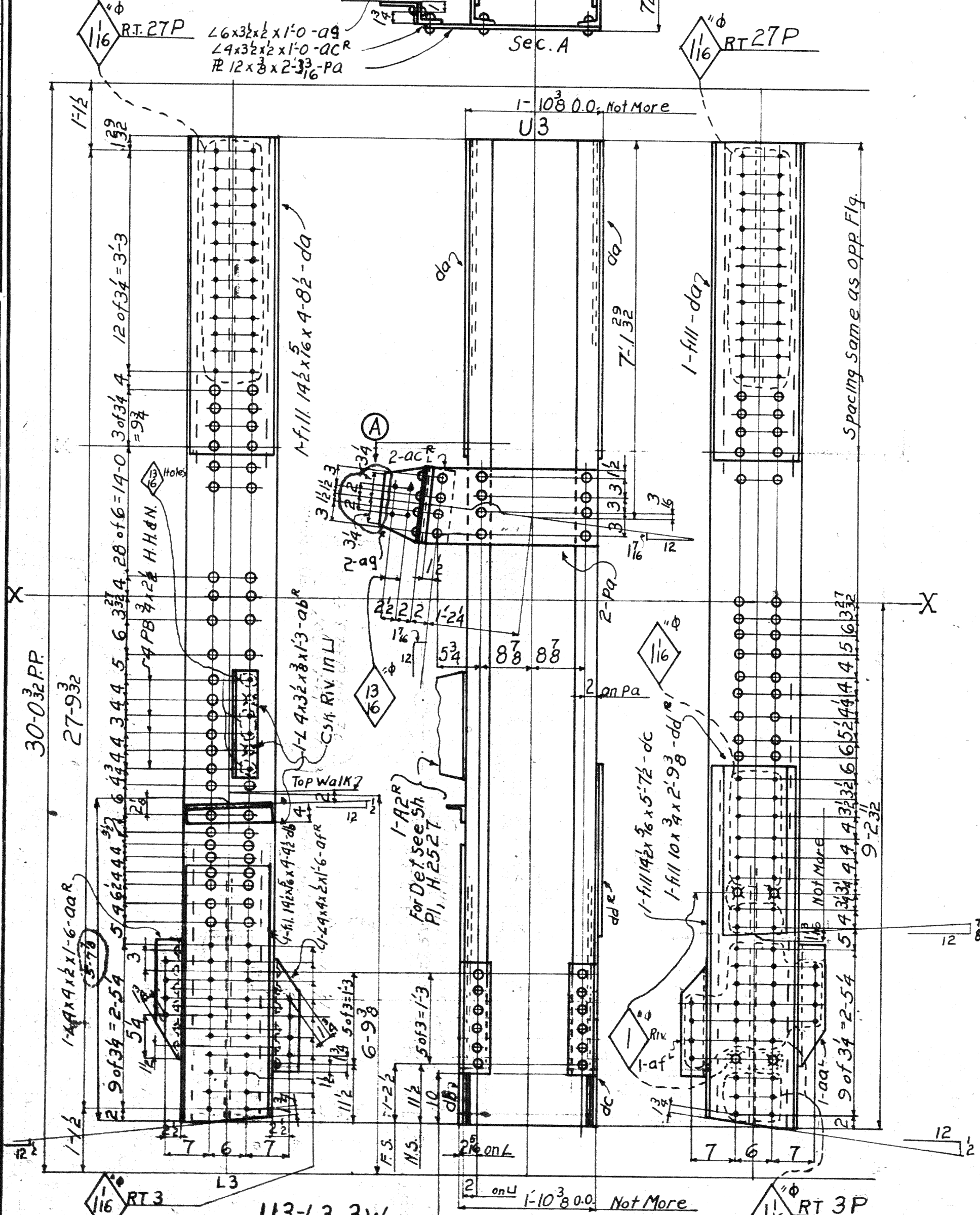
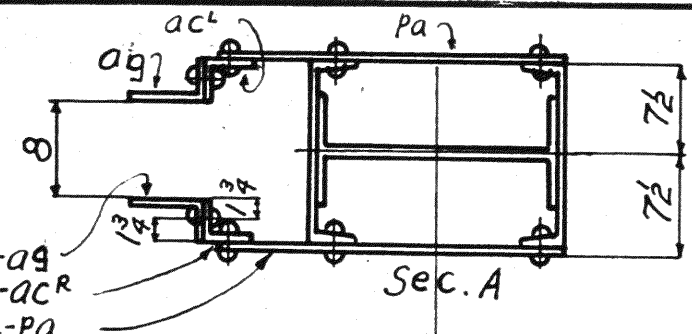
PAINT: Yes
 CONTACT SURFACES: No - Shop and Field
 Except for members permanently bolted
 on the main truss.

ORDER NO. H2524
 SHEET NO. 231

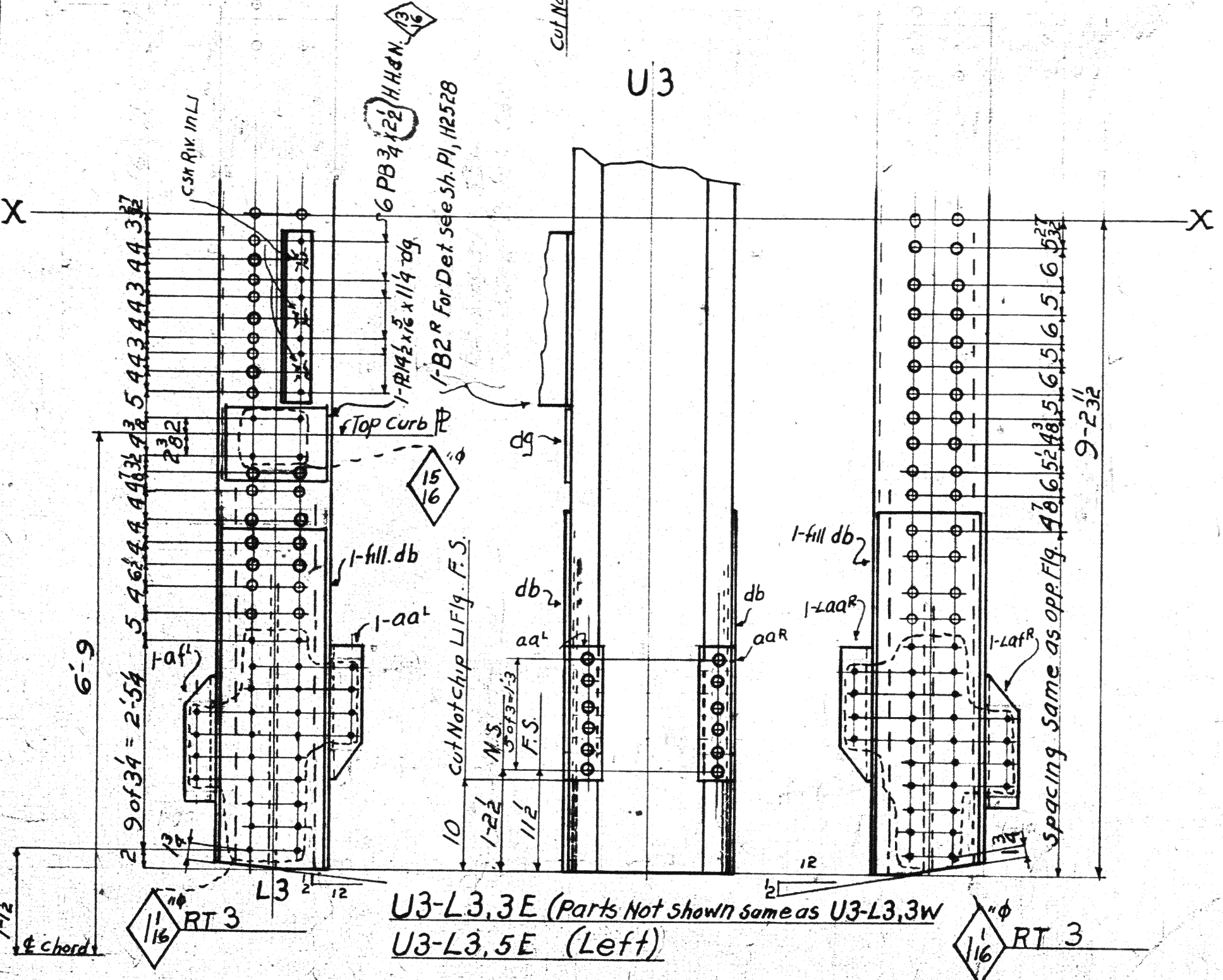
Rev 8-14-39
 Rev 6-7-39

2

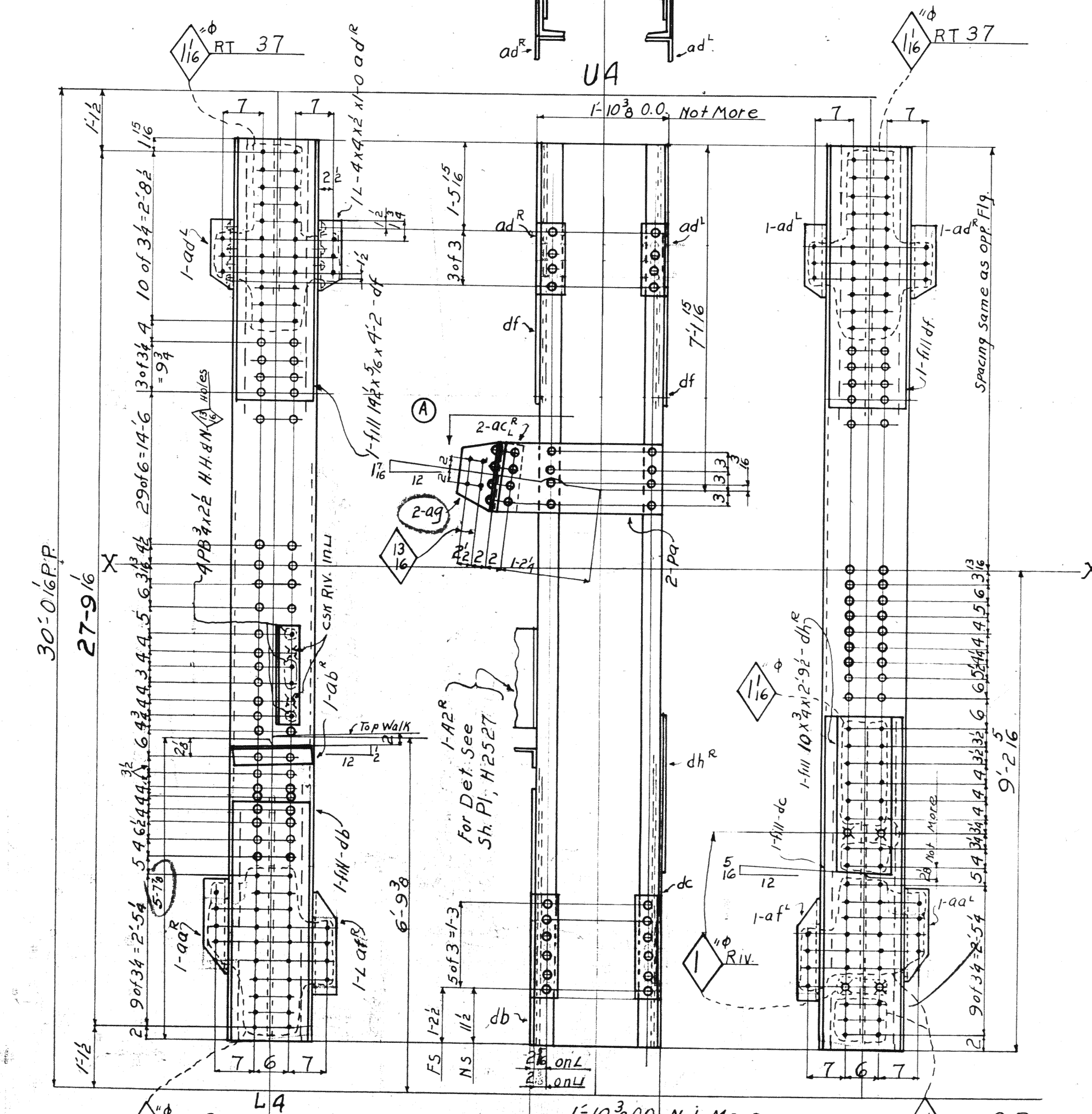
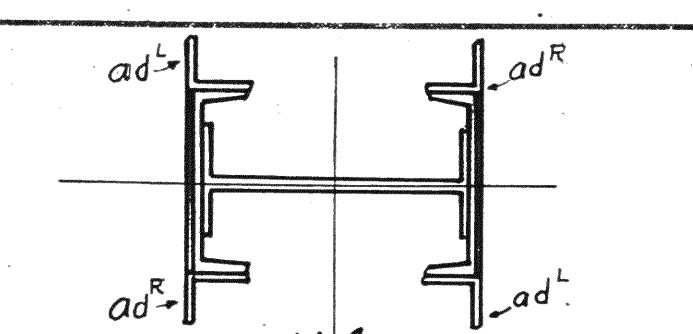
1-21CB82x28-1 (Ord 28-1)
2-15W33.9x28-1 (Ord 28-1)



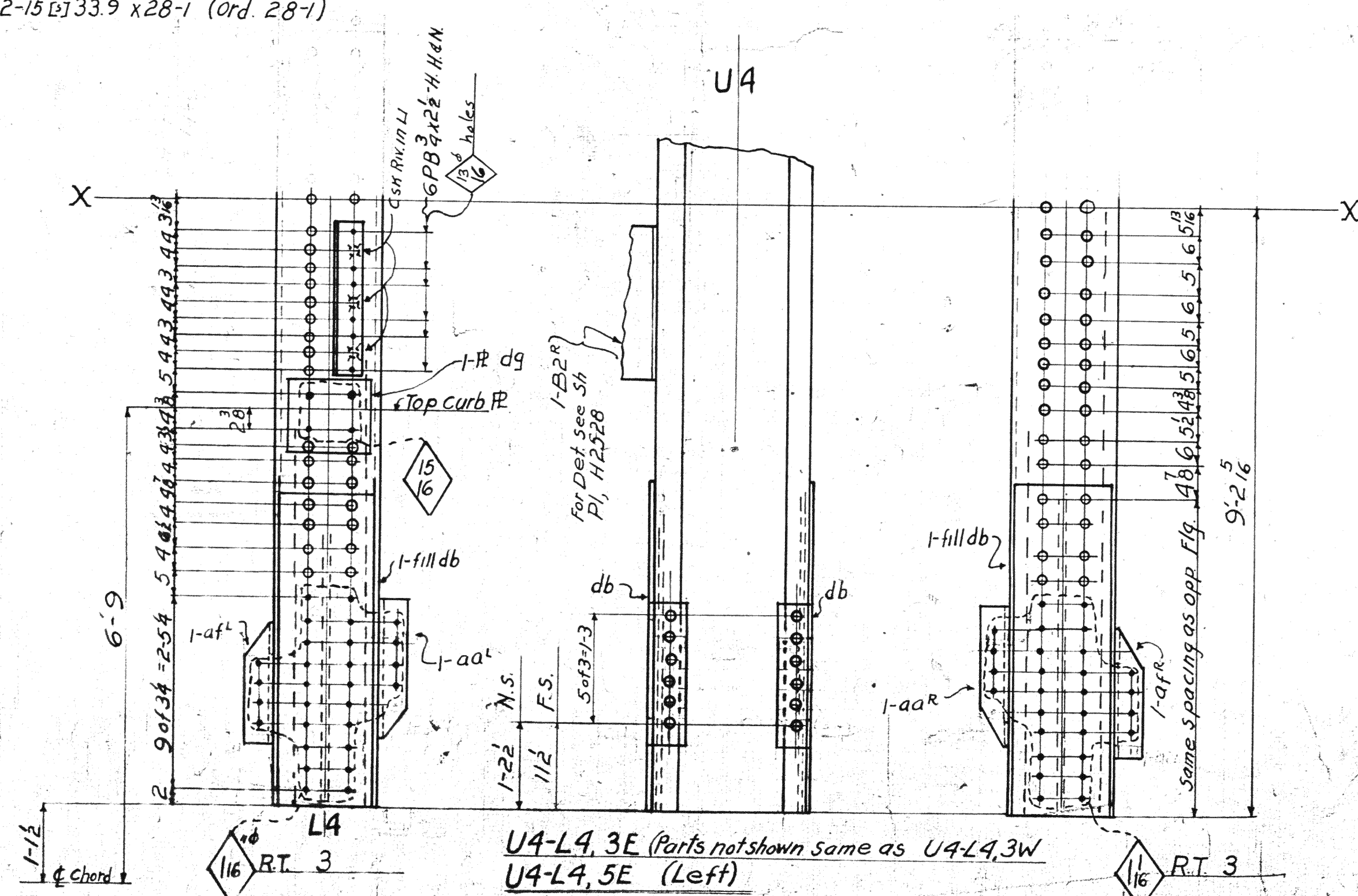
1-21CB82x28-1 (Ord 28-1)
2-15U33.9x28-1 (Ord 28-1)



1-21CB82x28-1 (Ord 28-1)
2-15W33.9x28-1 (Ord 28-1)



1-21CB82x28-1 (Ord 28-1)
2-15W33.9x28-1 (Ord 28-1)



Span	Span	REQUIRED		
Div	Div	Total	Description	Mark
1	1	1	Vertical	U3-L3.3W
			do	U3-L3.5W
			do	U3-L3.3E
			do	U3-L3.5E
			do	U4-L4.3W
			do	U4-L4.5W
			do	U4-L4.3E
			do	U4-L4.5E

MATERIAL: U.S. Steel A.S.T.M. A7-16
Copper bearing 0.20 min. copper content
SPECIFICATIONS: Special by Wilbur
Watson & Associates also Ohio State
Highway
INSPECTION: James H. Herron Co.
ERECTION: A.B.Co.
RIVETS: $\frac{3}{8}$ unless noted
OPEN HOLES: $\frac{3}{8}$ unless noted
REMARKS: All holes in material $\frac{7}{8}$ thick
or less subpunched $\frac{1}{16}$ dia. and reamed
to size while parts are assembled.
Holes in material more than $\frac{7}{8}$ thick
shall be drilled.
Holes for bracing and diaphragms which
do not pass thru main truss material
may be punched full size.
Holes marked RT subpunched or sub-
drilled $\frac{1}{16}$ dia. and reamed to size to
a metal template.

Lorain County, Ohio
EAST 21st STREET BRIDGE
Lorain, Ohio

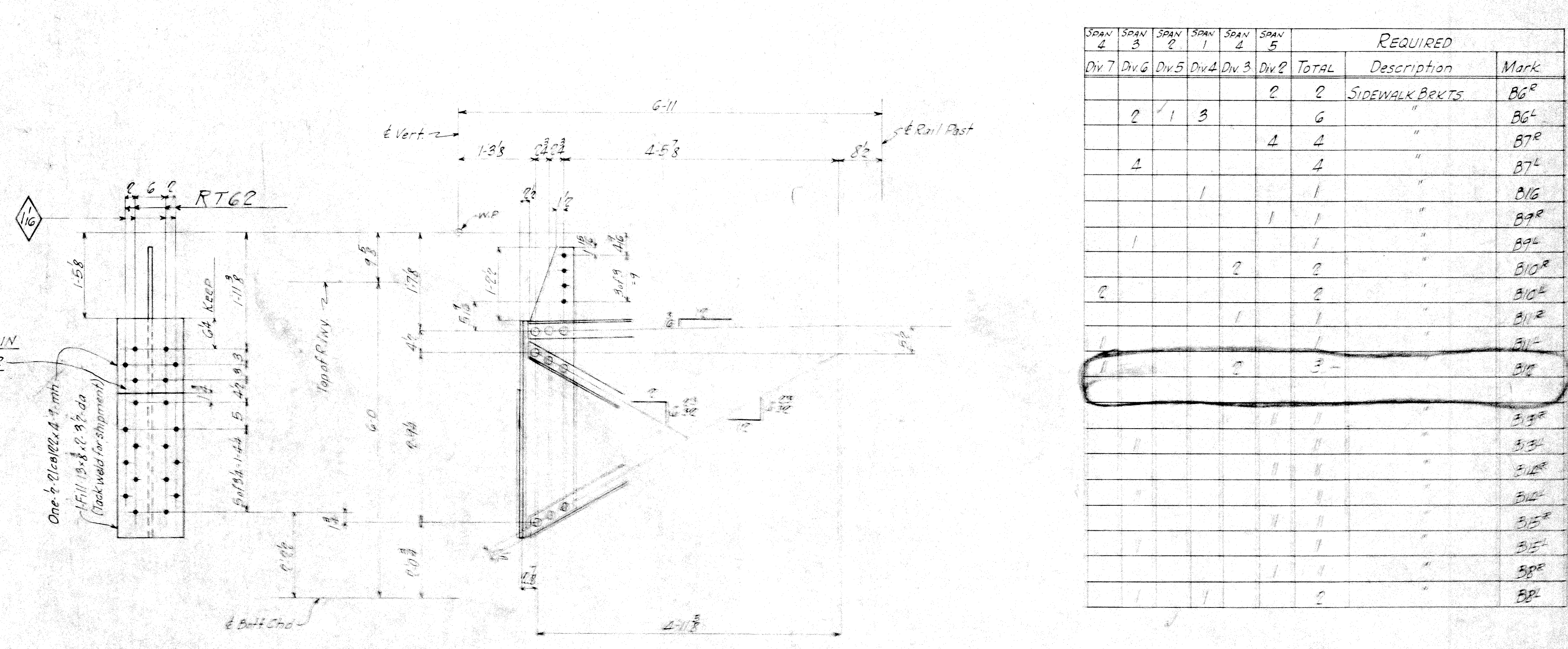
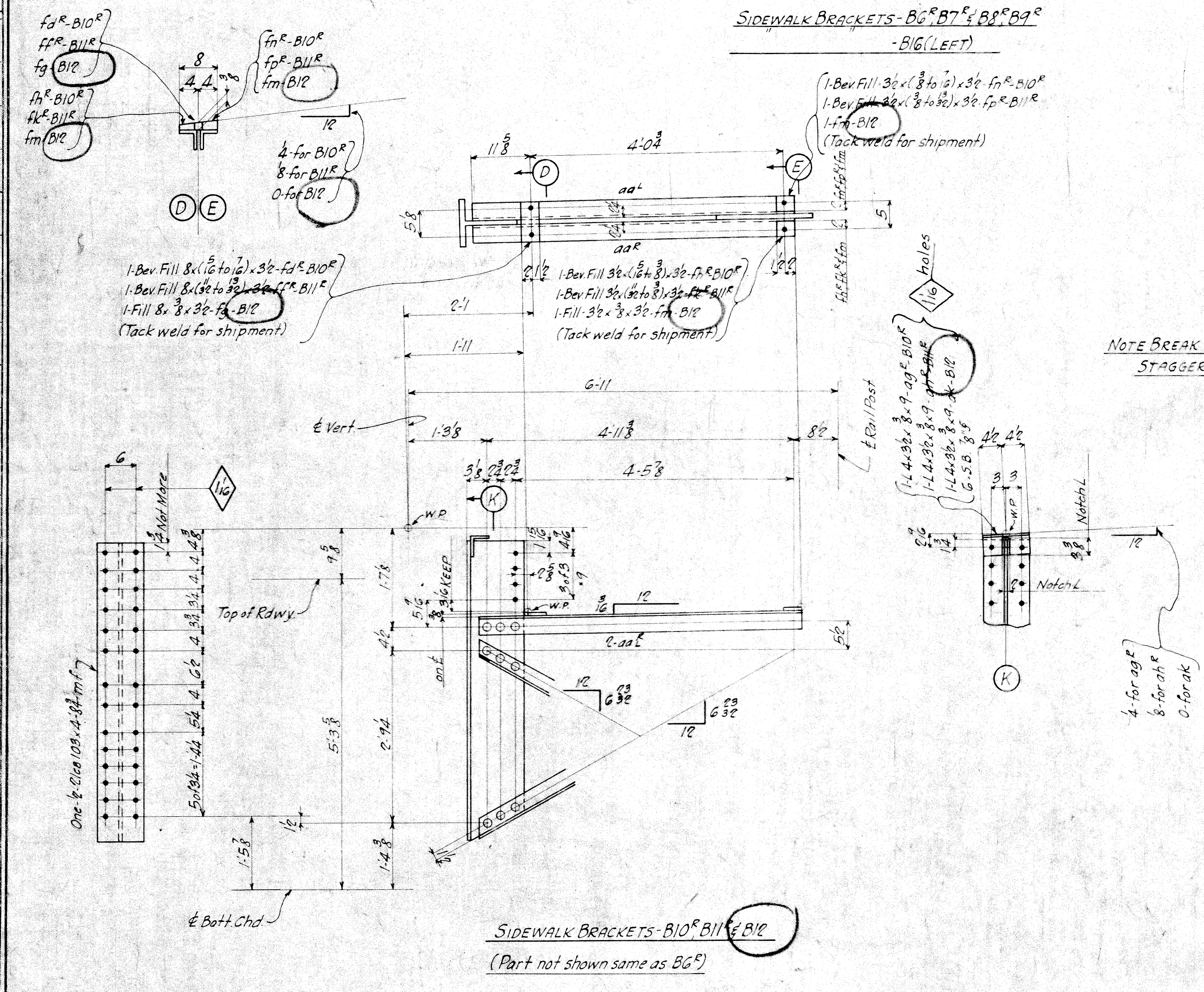
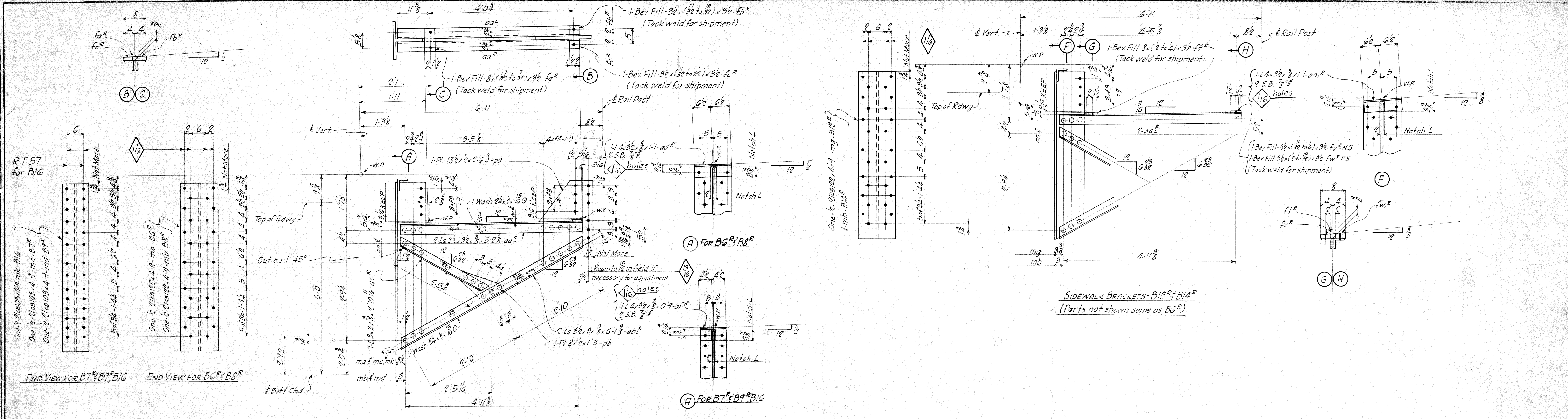
AMERICAN BRIDGE COMPANY.
DRAWINGS MADE AT Ambridge PLANT.
WORK FABRICATED AT Ambridge PLANT.
IN CHARGE OF Loughman DR.#2
DRAW MADE BY BAC DATE 7-5-39
DRAW CHECKED BY SJT DATE 7-22-39

ORDER NO. H2524 SHEET NO. 232

Rev 8-14-39
Rev - 8-7-39

5

PAINT: Yes
CONTACT SURFACES: NO - Shop & Field
except members permanently
bolted are to be painted



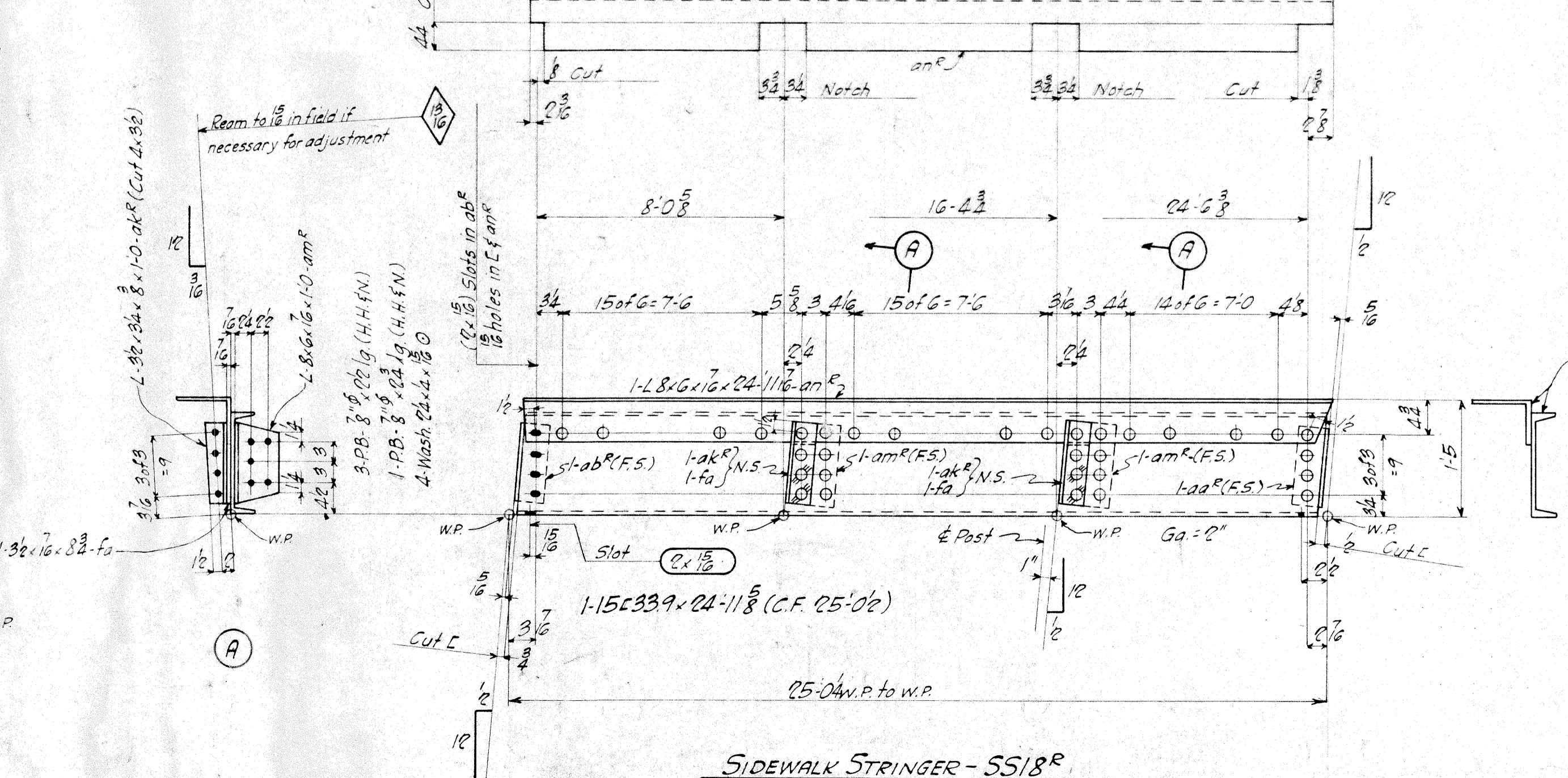
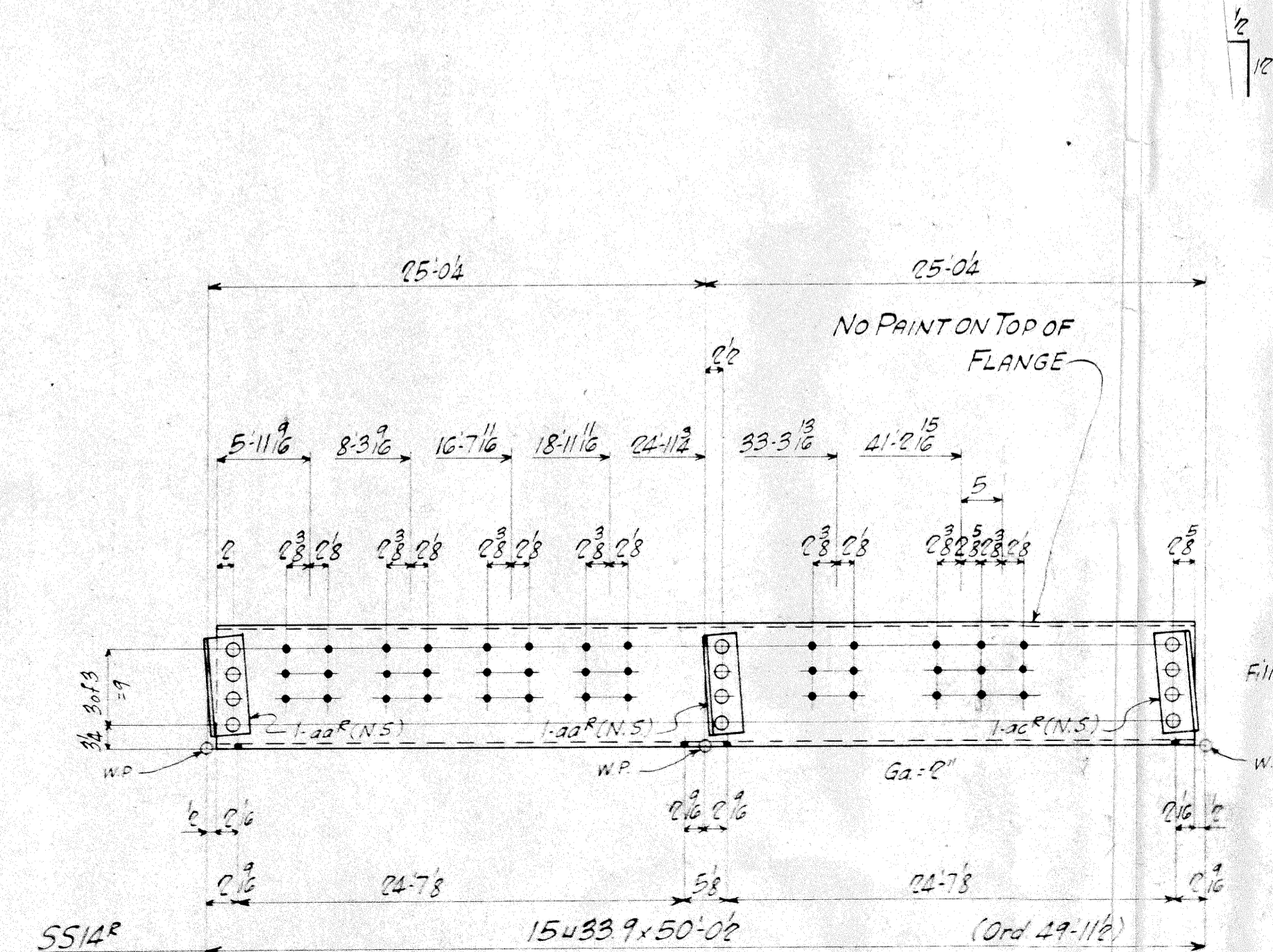
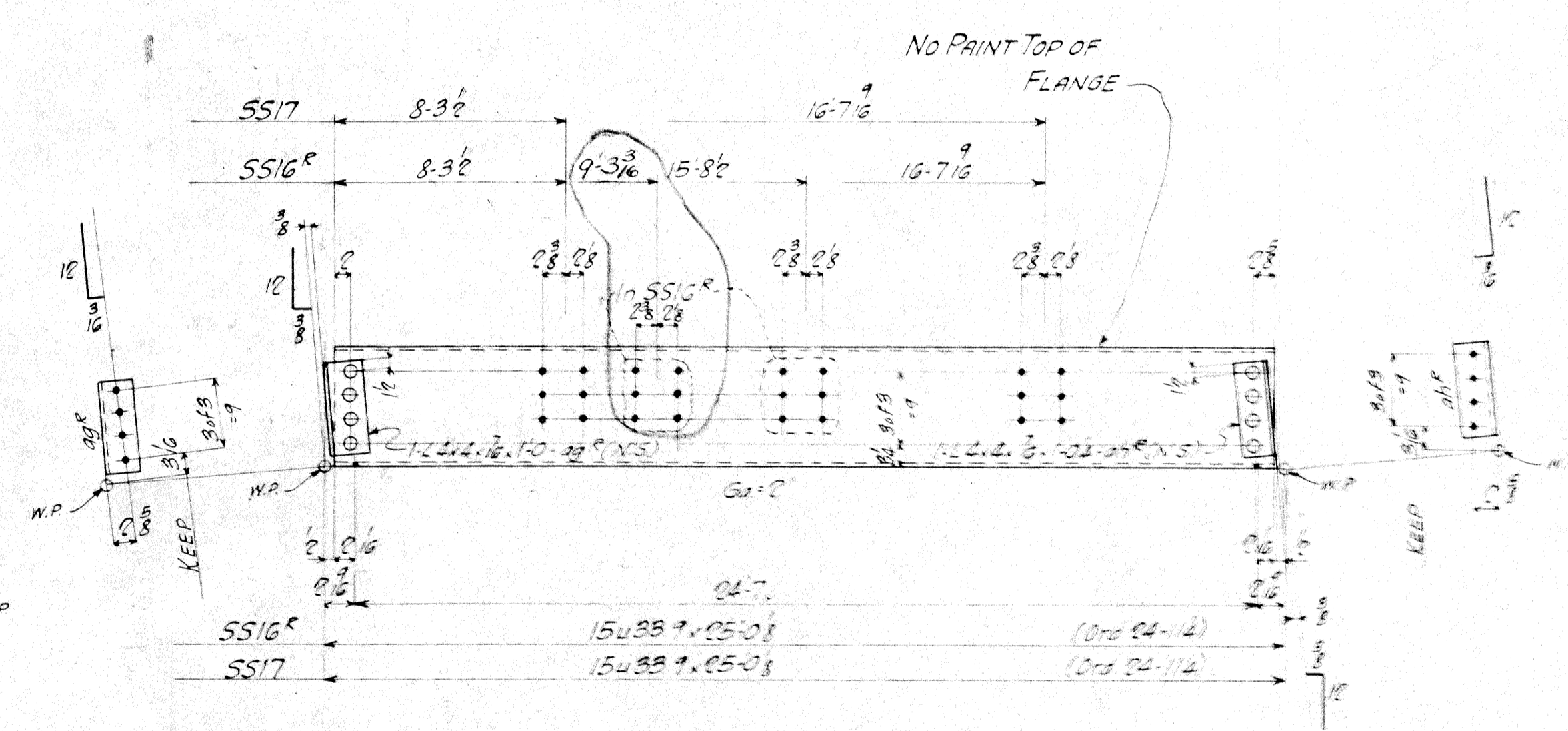
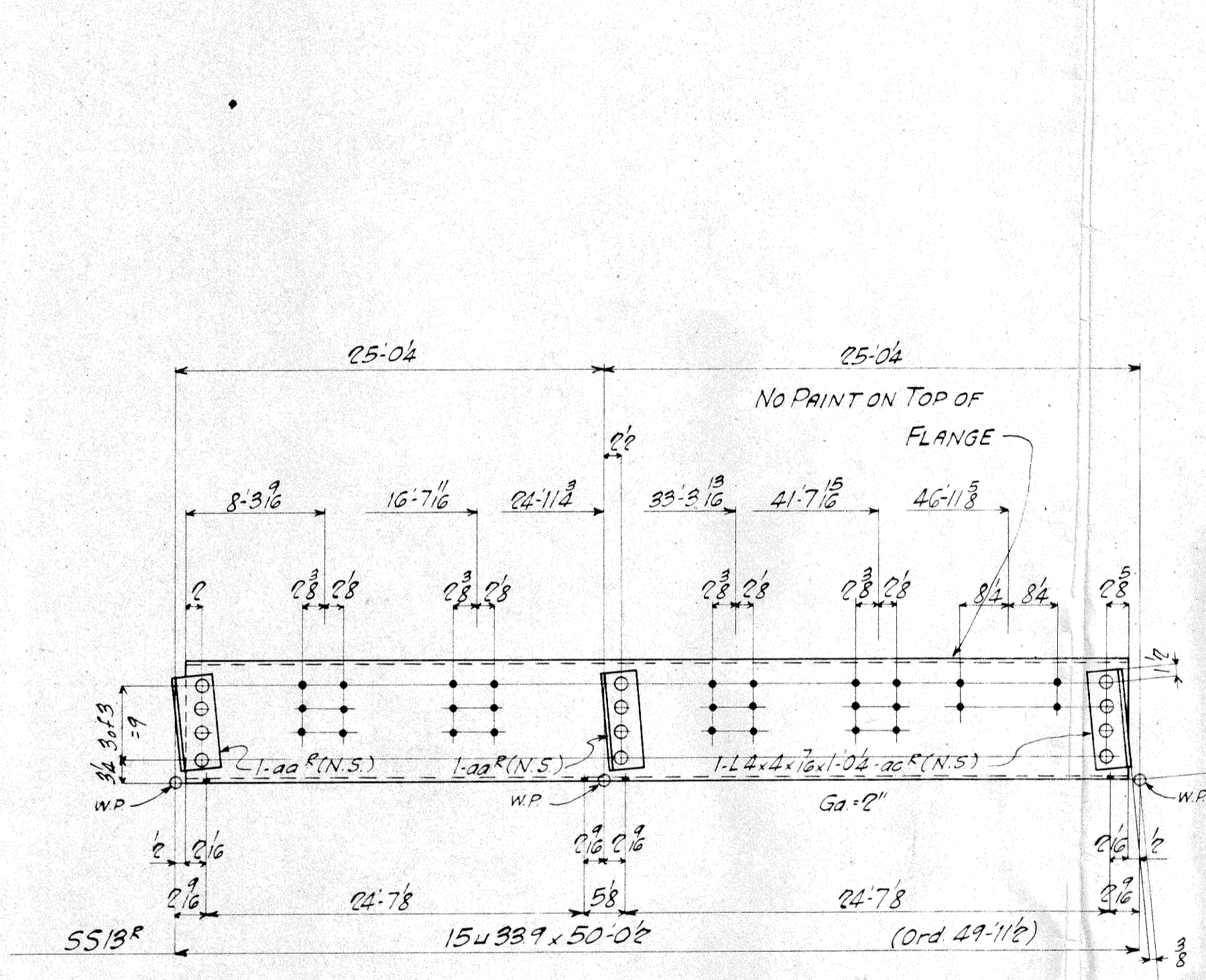
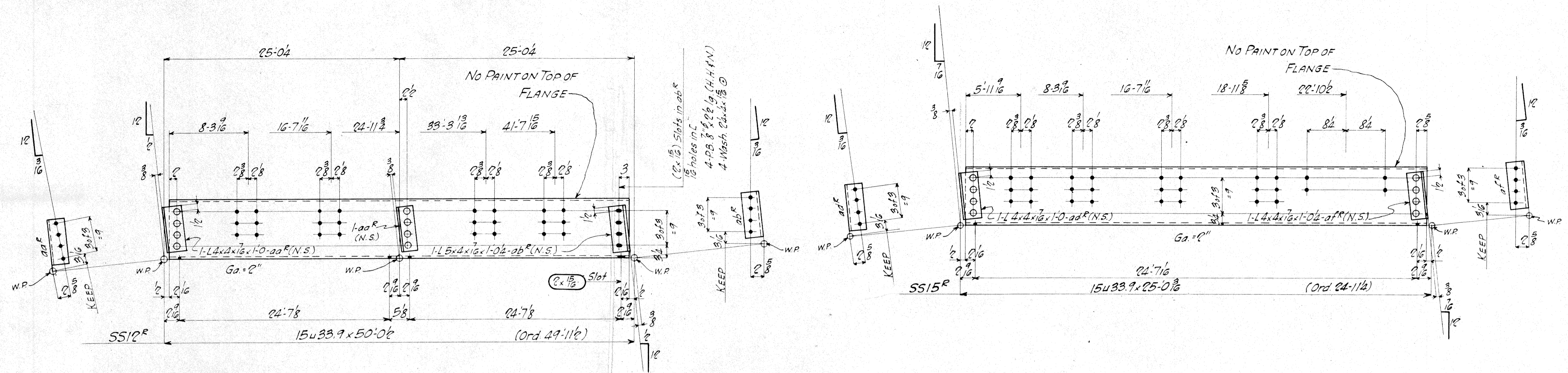
REQUIRED						REQUIRED			
SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5	SPAN 6	TOTAL	Description	Mark	
						2	2	SIDEWALK BRKTS	B6
						6	6	"	B6L
						4	4	"	B7
						4	4	"	B7L
						1	1	"	B16
						1	1	"	B9
						1	1	"	B9L
						2	2	"	B10
						2	2	"	B10L
						1	1	"	B11
						1	1	"	B11L
						3	3	"	B12
								"	B12L
								"	B13
								"	B13L
								"	B14
								"	B14L
								"	B15
								"	B15L
								"	B16
								"	B16L

Rev 8-16-37
Rev 8-31-39

MATERIAL: O.H. Steel A.S.T.M. A7-36
Copper bearing 0.20 min. copper content
SPECIFICATIONS: Special by Wilbur
Watson & Associates also Ohio State
Highway
INSPECTION: James H. Herron Co.
ERECTION: A.B.Co.
RIVETS: 3/8 unless noted
OPEN HOLES: 1/2 unless noted
REAMING: All holes punched full size
except in material more than 3/8 thick
shall be drilled.
Holes marked R.T. subpunched or subdrilled
1/2 reamed to size to metal template
PAINT: Yes
CONTACT SURFACES: No - (Shop Field)

Lorain County, Ohio
EAST 21st STREET BRIDGE
Lorain, Ohio
AMERICAN BRIDGE COMPANY.
DRAWINGS MADE AT AMB PLANT.
WORK FABRICATED AT AMB PLANT.
IN CHARGE OF LOUGHMAN
DRAW. MADE BY W.W.J. DATE 7-11-37
DRAW. CHECKED BY FLS DATE 7-14-39
ORDER NO. H2524 SHEET NO. 237

BOLTS		RIVETS		RIVETS		RIVETS		RIVETS		RIVETS	
Qty	Spec	Qty	Spec	Qty	Spec	Qty	Spec	Qty	Spec	Qty	Spec



Draw	Rev	Qty	REQUIRED	Mark
Div	Sub	Total	Description	
?	?	?	STAIRCASE STRINGER	SS12R
?	?	?		SS14R
?	?	?		SS16R
?	?	?		SS18R
?	?	?		SS14L
?	?	?		SS15L
?	?	?		SS16L
?	?	?		SS16L
?	?	?		SS16L
?	?	?		SS16L
?	?	?		SS17
?	?	?		SS18R
?	?	?		SS18L

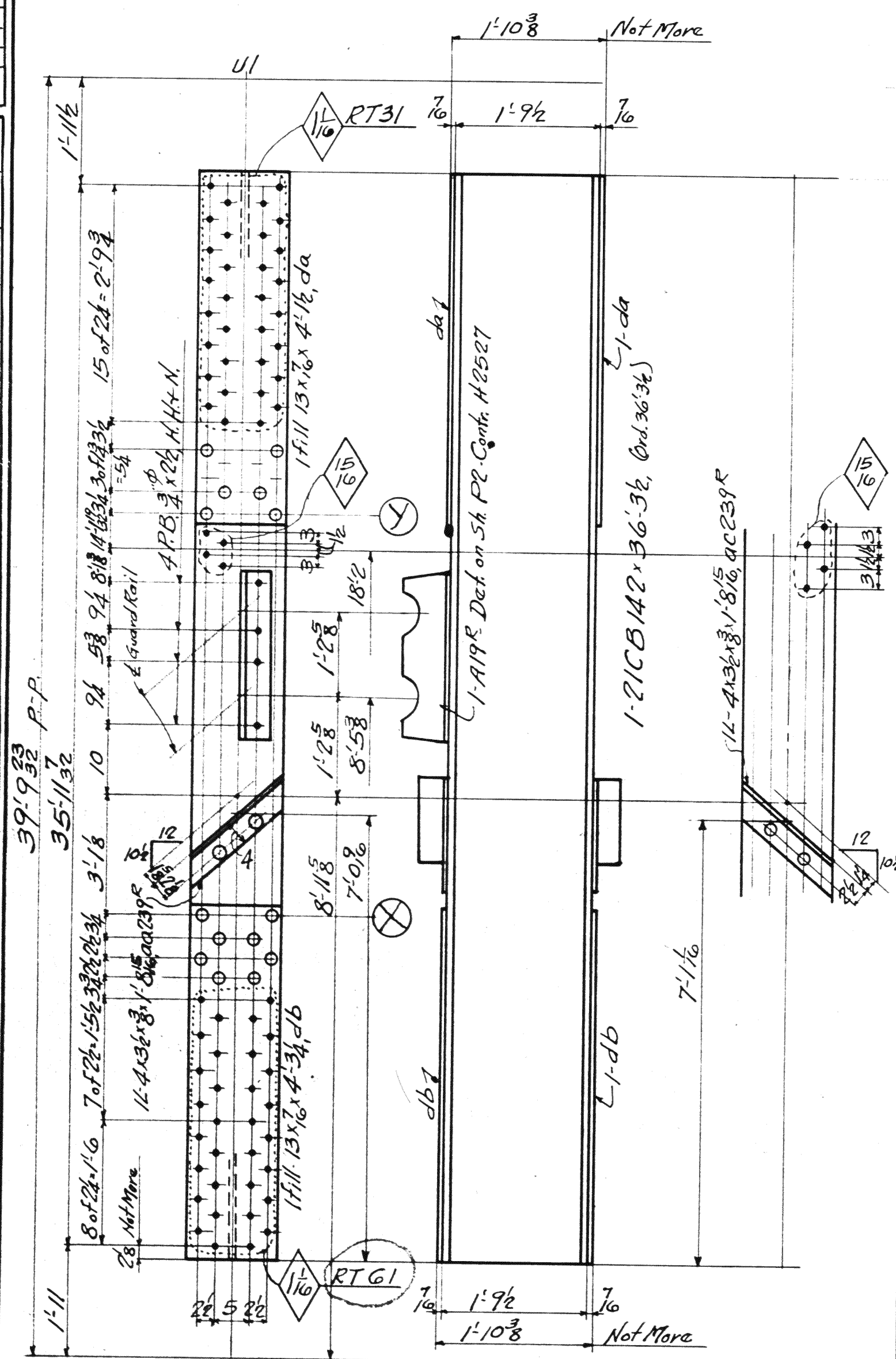
SIDEWALK STRINGERS

MATERIAL: A. S. T. M. A7-36
 Copper bearing 0.20 min. copper contact
 SPECIFICATIONS: Special by Wilbur
 Watson & Associates also Ohio State
 Highway
 INSPECTION: James H. Herron Co.
 ERECTION: A. B. Co.
 RIVETS: 3/8 unless noted
 OPEN HOLES: 1/8 unless noted
 REAMING: All holes punched full size
 except in material more than 3/8 thick
 shall be drilled.

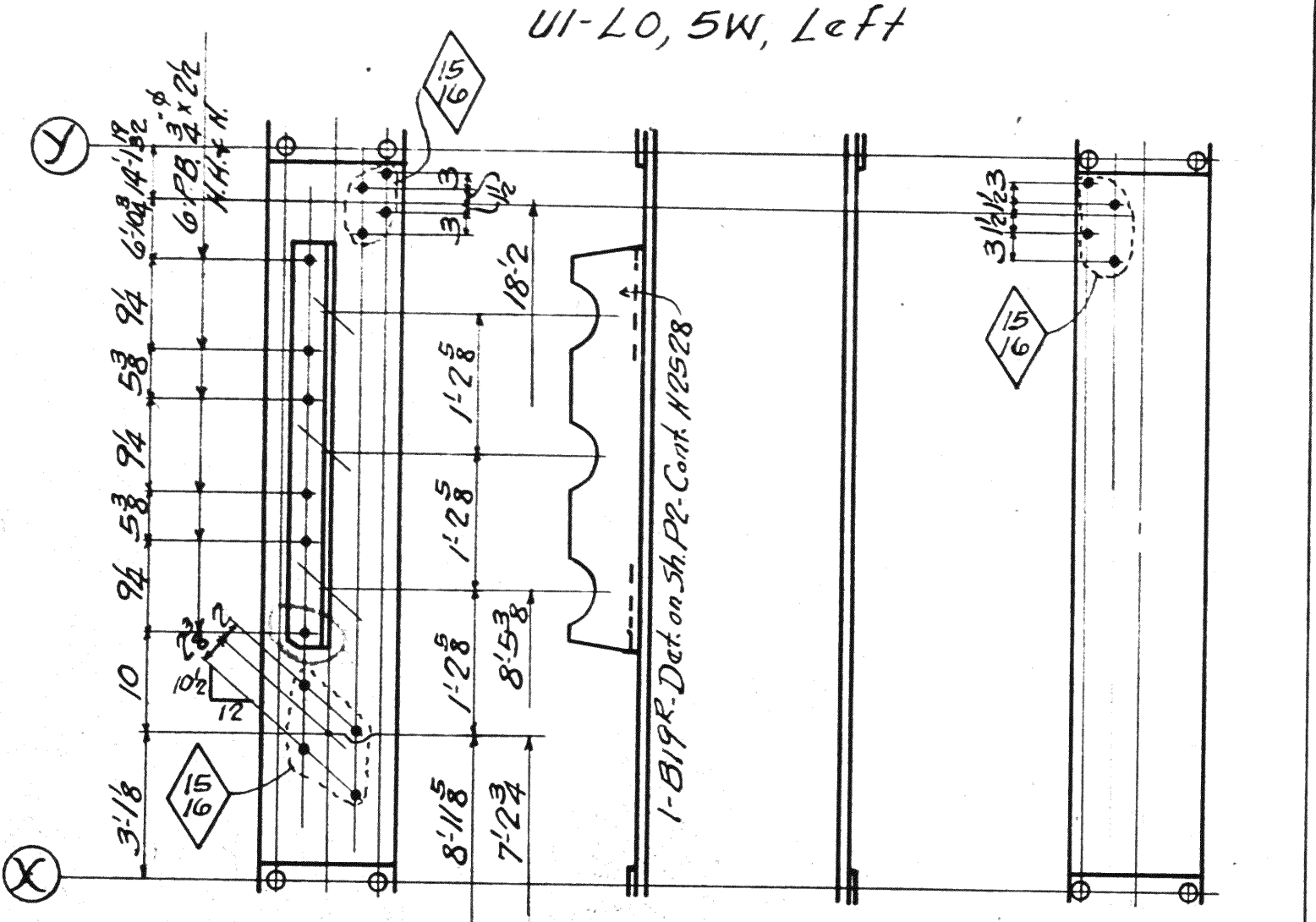
Lorain County, Ohio
EAST 21st STREET BRIDGE
 Lorain, Ohio
 D63-2M-10-38
AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT AMP PLANT.
 WORK FABRICATED AT AMP PLANT.
 IN CHARGE OF LOUGHMAN #2
 DRAW. MADE BY W. W. J. DATE 7-28-39
 DRAW. CHECKED BY FEW DATE 8-1-39
 ORDER NO. H0524 SHEET NO. 238

Rev. 9-12-39 (1)

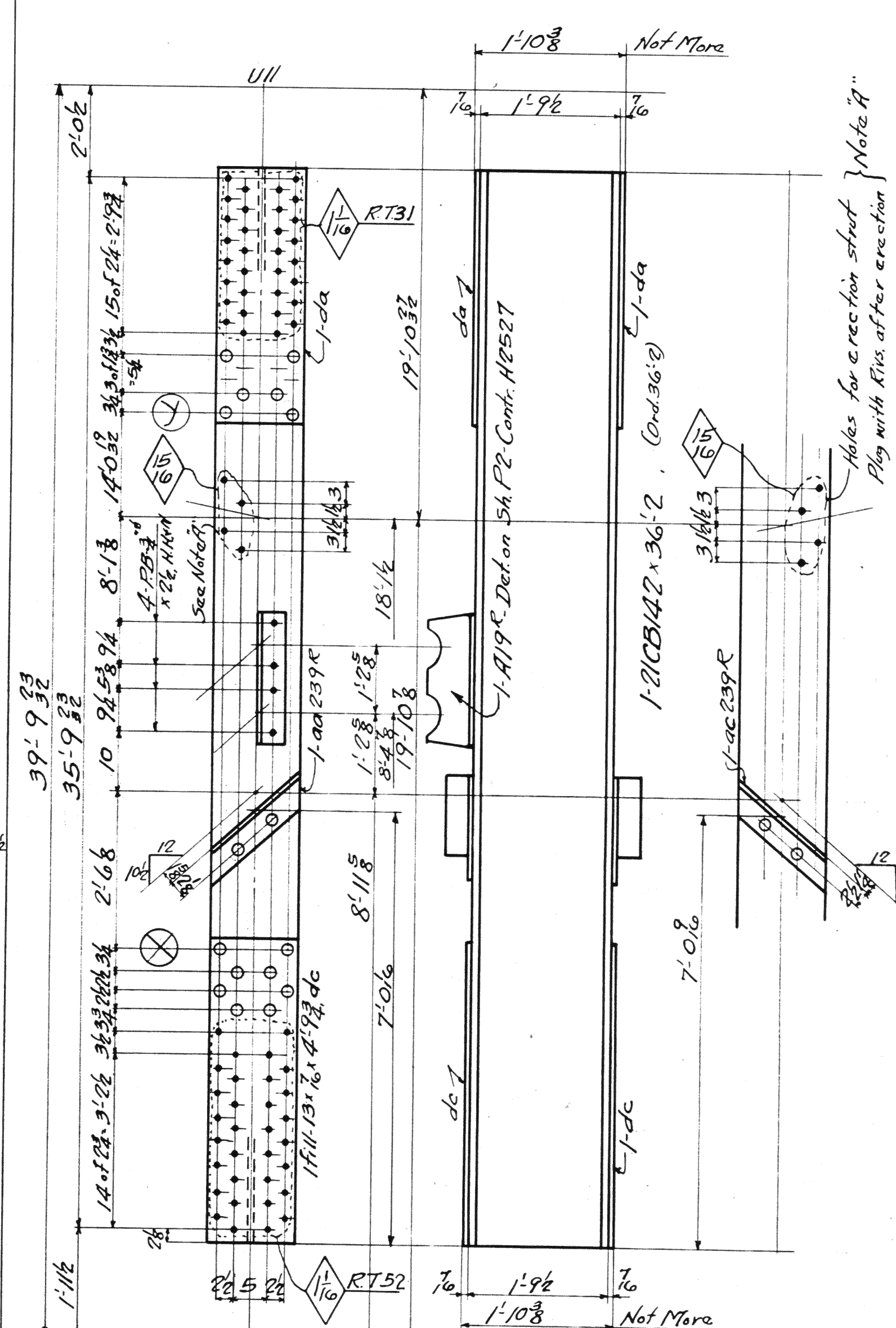
BOLTS		RIVETS		RIVETS		RIVETS		RIVETS		RIVETS	
Dim.	Qty.	Dim.	Qty.	Dim.	Qty.	Dim.	Qty.	Dim.	Qty.	Dim.	Qty.



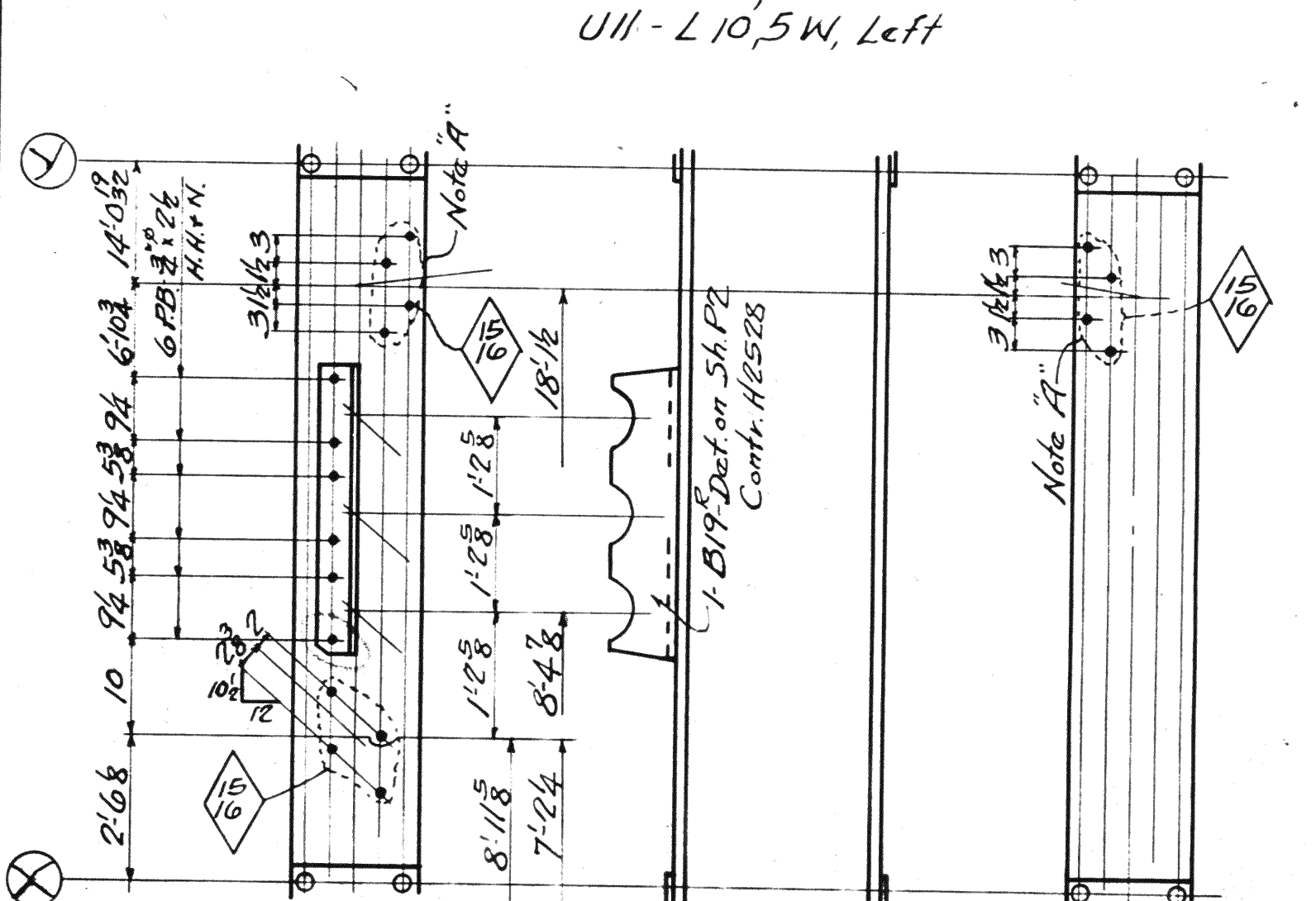
UI-L0,3W
UI-L0,5W, Left



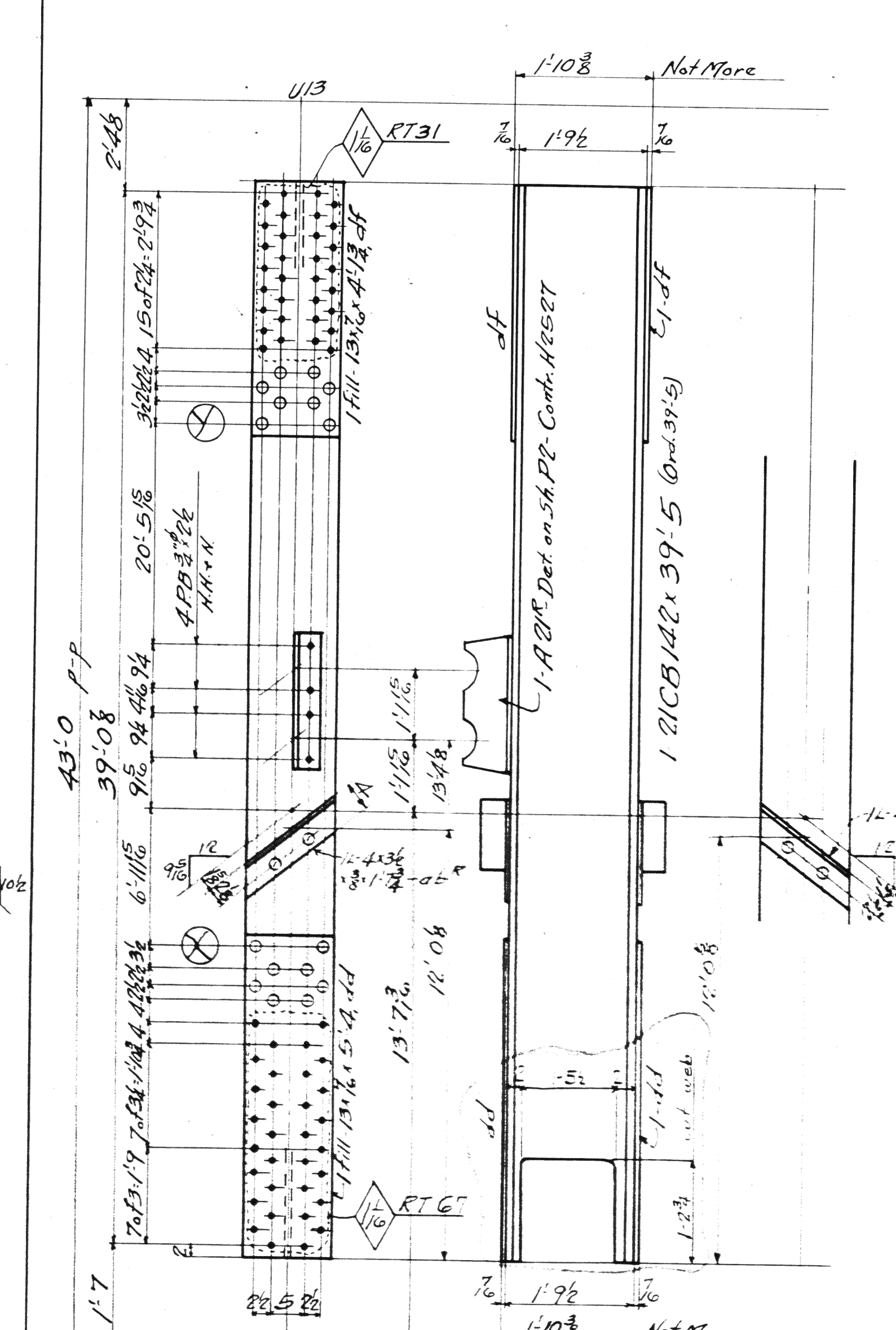
UI-L0,3E, Same as UI-L0,3W except as shown between lines X and Y
UI-L0,5E, Left



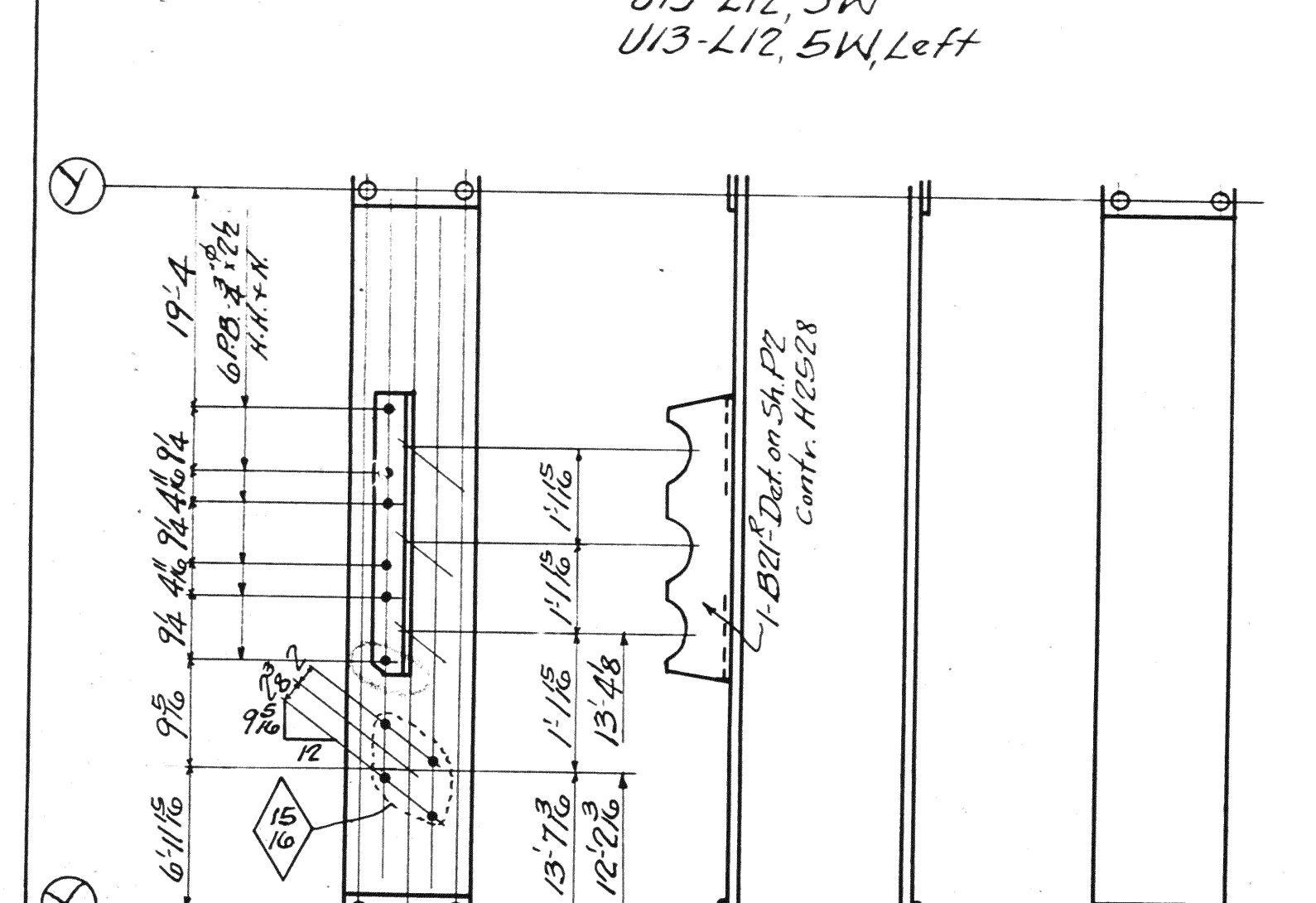
UII-L10,3W
UII-L10,5W, Left



UII-L10,3E, Same as UII-L10,3W except as shown between lines X and Y
UII-L10,5E, Left



UI3-L12,3W
UI3-L12,5W, Left



UI3-L12,3E, Same as UI3-L12,3W except as shown between lines X and Y
UI3-L12,5E, Left

Diagonal	Diagonal	Total	Description	Mark
1	1	1	Diagonals	UI-L0,3W
1	1	1	do	UI-L0,5W
1	1	1	do	UI-L0,3E
1	1	1	do	UI-L0,5E
1	1	1	do	UII-L10,3W
1	1	1	do	UII-L10,5W
1	1	1	do	UII-L10,3E
1	1	1	do	UII-L10,5E
1	1	1	do	UI3-L12,3W
1	1	1	do	UI3-L12,5W
1	1	1	do	UI3-L12,3E
1	1	1	do	UI3-L12,5E

MATERIAL: C.H. Steel A.S.T.M. A7-6
Copper bearing 0.20 min. copper content
SPECIFICATIONS: Special by Wilbur Watson & Associates also Ohio State Highway
INSPECTION: James H. Herron Co.
ERECTOR: A.B.Co.
RIVETS: 5/8 unless noted
OPEN HOLES: 7/8 unless noted
REAMING: All holes in material 7/8 thick or less subpunched 7/8 dia. and reamed to size while parts are assembled.
Holes in material more than 7/8 thick shall be drilled.
Holes for bracing and diaphragms which do not pass thru main truss material may be punched full size.
Holes marked RT subpunched or subdrilled 7/8 dia. and reamed to size to a metal template.

Lorain County, Ohio
EAST 21st STREET BRIDGE
Lorain, Ohio

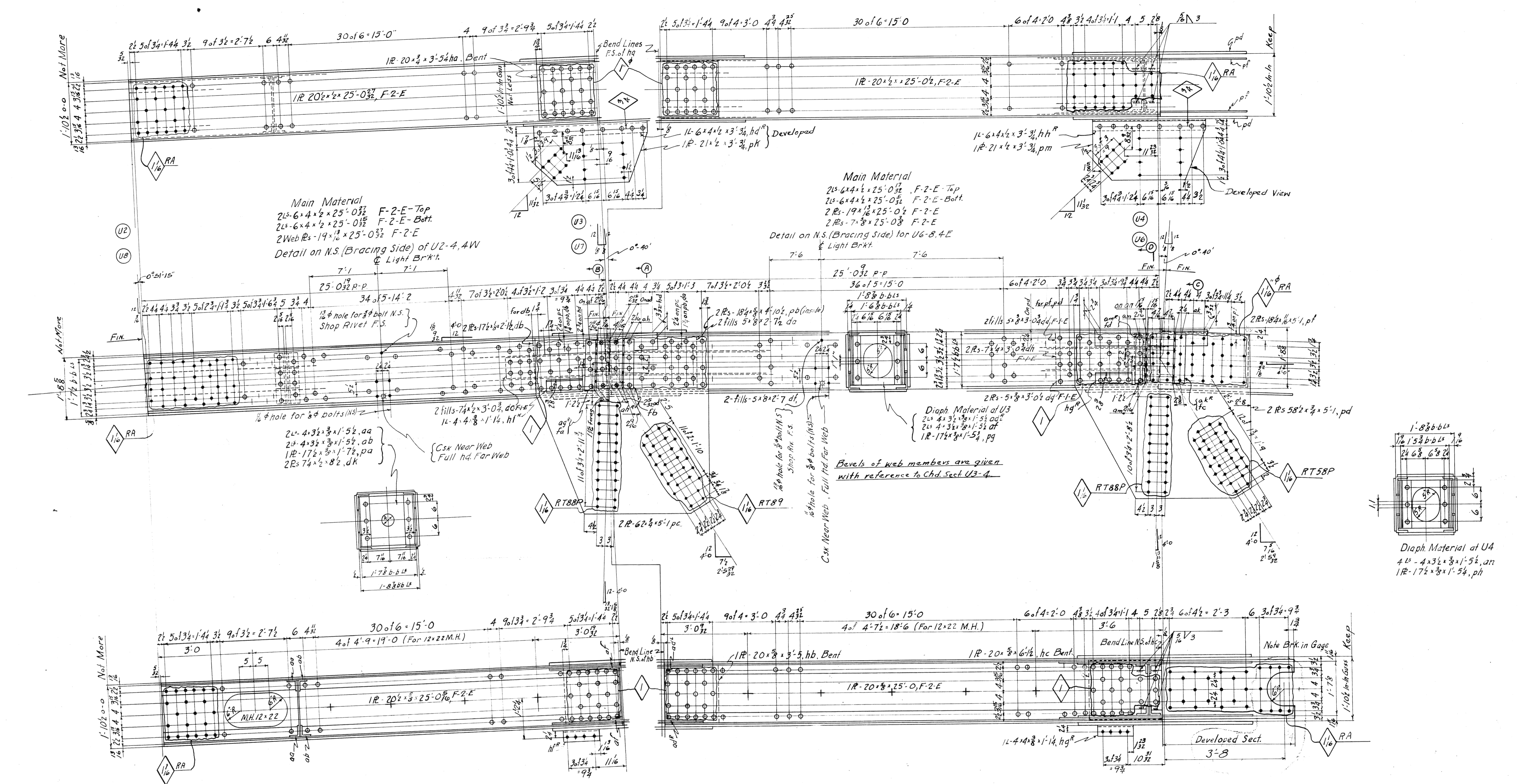
AMERICAN BRIDGE COMPANY.
DRAWINGS MADE AT Amb. PLANT.
WORK FABRICATED AT Amb. PLANT.
IN CHARGE OF Loughman-D.R.#2
DRAW. MADE BY E.R.M. DATE 7-17-39
DRAW. CHECKED BY SJT DATE 7-17-39

ORDER No. H2524 SHEET No. 239

Rev 8-14-39

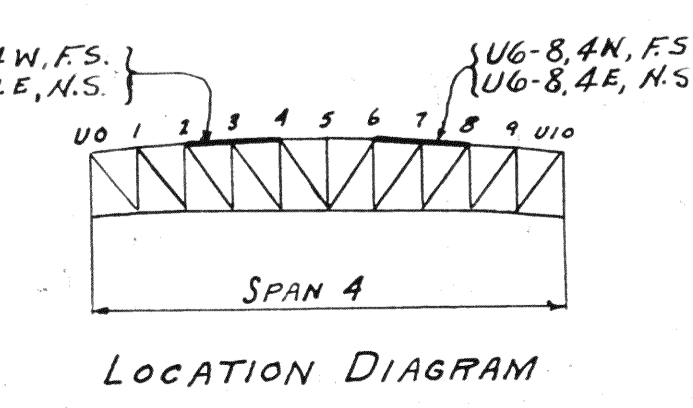
BOLTS		RIVETS	
Di.	Grp.	Di.	Grp.
1/2"	1/2"	3/8"	3/8"
3/4"	3/4"	1/2"	1/2"
1"	1"	5/8"	5/8"
1 1/4"	1 1/4"	3/4"	3/4"
1 1/2"	1 1/2"	7/8"	7/8"
1 3/4"	1 3/4"	1"	1"
2"	2"	1 1/8"	1 1/8"
2 1/4"	2 1/4"	1 1/4"	1 1/4"
2 1/2"	2 1/2"	1 1/2"	1 1/2"
3"	3"	1 3/4"	1 3/4"
3 1/2"	3 1/2"	2"	2"
4"	4"	2 1/4"	2 1/4"
4 1/2"	4 1/2"	2 1/2"	2 1/2"
5"	5"	2 3/4"	2 3/4"
5 1/2"	5 1/2"	3"	3"
6"	6"	3 1/4"	3 1/4"
6 1/2"	6 1/2"	3 1/2"	3 1/2"
7"	7"	3 3/4"	3 3/4"
7 1/2"	7 1/2"	4"	4"
8"	8"	4 1/4"	4 1/4"
8 1/2"	8 1/2"	4 1/2"	4 1/2"
9"	9"	4 3/4"	4 3/4"
9 1/2"	9 1/2"	5"	5"
10"	10"	5 1/4"	5 1/4"
10 1/2"	10 1/2"	5 1/2"	5 1/2"
11"	11"	5 3/4"	5 3/4"
11 1/2"	11 1/2"	6"	6"
12"	12"	6 1/4"	6 1/4"
12 1/2"	12 1/2"	6 1/2"	6 1/2"
13"	13"	6 3/4"	6 3/4"
13 1/2"	13 1/2"	7"	7"
14"	14"	7 1/4"	7 1/4"
14 1/2"	14 1/2"	7 1/2"	7 1/2"
15"	15"	7 3/4"	7 3/4"
15 1/2"	15 1/2"	8"	8"
16"	16"	8 1/4"	8 1/4"
16 1/2"	16 1/2"	8 1/2"	8 1/2"
17"	17"	8 3/4"	8 3/4"
17 1/2"	17 1/2"	9"	9"
18"	18"	9 1/4"	9 1/4"
18 1/2"	18 1/2"	9 1/2"	9 1/2"
19"	19"	9 3/4"	9 3/4"
19 1/2"	19 1/2"	10"	10"
20"	20"	10 1/4"	10 1/4"
20 1/2"	20 1/2"	10 1/2"	10 1/2"
21"	21"	10 3/4"	10 3/4"
21 1/2"	21 1/2"	11"	11"
22"	22"	11 1/4"	11 1/4"
22 1/2"	22 1/2"	11 1/2"	11 1/2"
23"	23"	11 3/4"	11 3/4"
23 1/2"	23 1/2"	12"	12"
24"	24"	12 1/4"	12 1/4"
24 1/2"	24 1/2"	12 1/2"	12 1/2"
25"	25"	12 3/4"	12 3/4"
25 1/2"	25 1/2"	13"	13"
26"	26"	13 1/4"	13 1/4"
26 1/2"	26 1/2"	13 1/2"	13 1/2"
27"	27"	13 3/4"	13 3/4"
27 1/2"	27 1/2"	14"	14"
28"	28"	14 1/4"	14 1/4"
28 1/2"	28 1/2"	14 1/2"	14 1/2"
29"	29"	14 3/4"	14 3/4"
29 1/2"	29 1/2"	15"	15"
30"	30"	15 1/4"	15 1/4"
30 1/2"	30 1/2"	15 1/2"	15 1/2"
31"	31"	15 3/4"	15 3/4"
31 1/2"	31 1/2"	16"	16"
32"	32"	16 1/4"	16 1/4"
32 1/2"	32 1/2"	16 1/2"	16 1/2"
33"	33"	16 3/4"	16 3/4"
33 1/2"	33 1/2"	17"	17"
34"	34"	17 1/4"	17 1/4"
34 1/2"	34 1/2"	17 1/2"	17 1/2"
35"	35"	17 3/4"	17 3/4"
35 1/2"	35 1/2"	18"	18"
36"	36"	18 1/4"	18 1/4"
36 1/2"	36 1/2"	18 1/2"	18 1/2"
37"	37"	18 3/4"	18 3/4"
37 1/2"	37 1/2"	19"	19"
38"	38"	19 1/4"	19 1/4"
38 1/2"	38 1/2"	19 1/2"	19 1/2"
39"	39"	19 3/4"	19 3/4"
39 1/2"	39 1/2"	20"	20"
40"	40"	20 1/4"	20 1/4"
40 1/2"	40 1/2"	20 1/2"	20 1/2"
41"	41"	20 3/4"	20 3/4"
41 1/2"	41 1/2"	21"	21"
42"	42"	21 1/4"	21 1/4"
42 1/2"	42 1/2"	21 1/2"	21 1/2"
43"	43"	21 3/4"	21 3/4"
43 1/2"	43 1/2"	22"	22"
44"	44"	22 1/4"	22 1/4"
44 1/2"	44 1/2"	22 1/2"	22 1/2"
45"	45"	22 3/4"	22 3/4"
45 1/2"	45 1/2"	23"	23"
46"	46"	23 1/4"	23 1/4"
46 1/2"	46 1/2"	23 1/2"	23 1/2"
47"	47"	23 3/4"	23 3/4"
47 1/2"	47 1/2"	24"	24"
48"	48"	24 1/4"	24 1/4"
48 1/2"	48 1/2"	24 1/2"	24 1/2"
49"	49"	24 3/4"	24 3/4"
49 1/2"	49 1/2"	25"	25"
50"	50"	25 1/4"	25 1/4"
50 1/2"	50 1/2"	25 1/2"	25 1/2"
51"	51"	25 3/4"	25 3/4"
51 1/2"	51 1/2"	26"	26"
52"	52"	26 1/4"	26 1/4"
52 1/2"	52 1/2"	26 1/2"	26 1/2"
53"	53"	26 3/4"	26 3/4"
53 1/2"	53 1/2"	27"	27"
54"	54"	27 1/4"	27 1/4"
54 1/2"	54 1/2"	27 1/2"	27 1/2"
55"	55"	27 3/4"	27 3/4"
55 1/2"	55 1/2"	28"	28"
56"	56"	28 1/4"	28 1/4"
56 1/2"	56 1/2"	28 1/2"	28 1/2"
57"	57"	28 3/4"	28 3/4"
57 1/2"	57 1/2"	29"	29"
58"	58"	29 1/4"	29 1/4"
58 1/2"	58 1/2"	29 1/2"	29 1/2"
59"	59"	29 3/4"	29 3/4"
59 1/2"	59 1/2"	30"	30"
60"	60"	30 1/4"	30 1/4"
60 1/2"	60 1/2"	30 1/2"	30 1/2"
61"	61"	30 3/4"	30 3/4"
61 1/2"	61 1/2"	31"	31"
62"	62"	31 1/4"	31 1/4"
62 1/2"	62 1/2"	31 1/2"	31 1/2"
63"	63"	31 3/4"	31 3/4"
63 1/2"	63 1/2"	32"	32"
64"	64"	32 1/4"	32 1/4"
64 1/2"	64 1/2"	32 1/2"	32 1/2"
65"	65"	32 3/4"	32 3/4"
65 1/2"	65 1/2"	33"	33"
66"	66"	33 1/4"	33 1/4"
66 1/2"	66 1/2"	33 1/2"	33 1/2"
67"	67"	33 3/4"	33 3/4"
67 1/2"	67 1/2"	34"	34"
68"	68"	34 1/4"	34 1/4"
68 1/2"	68 1/2"	34 1/2"	34 1/2"
69"	69"	34 3/4"	34 3/4"
69 1/2"	69 1/2"	35"	35"
70"	70"	35 1/4"	35 1/4"
70 1/2"	70 1/2"	35 1/2"	35 1/2"
71"	71"	35 3/4"	35 3/4"
71 1/2"	71 1/2"	36"	36"
72"	72"	36 1/4"	36 1/4"
72 1/2"	72 1/2"	36 1/2"	36 1/2"
73"	73"	36 3/4"	36 3/4"
73 1/2"	73 1/2"	37"	37"
74"	74"	37 1/4"	37 1/4"
74 1/2"	74 1/2"	37 1/2"	37 1/2"
75"	75"	37 3/4"	37 3/4"
75 1/2"	75 1/2"	38"	38"
76"	76"	38 1/4"	38 1/4"
76 1/2"	76 1/2"	38 1/2"	38 1/2"
77"	77"	38 3/4"	38 3/4"
77 1/2"	77 1/2"	39"	39"
78"	78"	39 1/4"	39 1/4"
78 1/2"	78 1/2"	39 1/2"	39 1/2"
79"	79"	39 3/4"	39 3/4"
79 1/2"	79 1/2"	40"	40"
80"	80"	40 1/4"	40 1/4"
80 1/2"	80 1/2"	40 1/2"	40 1/2"
81"	81"	40 3/4"	40 3/4"
81 1/2"	81 1/2"	41"	41"
82"	82"	41 1/4"	41 1/4"
82 1/2"	82 1/2"	41 1/2"	41 1/2"
83"	83"	41 3/4"	41 3/4"
83 1/2"	83 1/2"	42"	42"
84"	84"	42 1/4"	42 1/4"
84 1/2"	84 1/2"	42 1/2"	42 1/2"
85"	85"	42 3/4"	42 3/4"
85 1/2"	85 1/2"	43"	43"
86"	86"	43 1/4"	43 1/4"
86 1/2"	86 1/2"	43 1/2"	43 1/2"
87"	87"	43 3/4"	43 3/4"
87 1/2"	87 1/2"	44"	44"
88"	88"	44 1/4"	44 1/4"
88 1/2"	88 1/2"	44 1/2"	44 1/2"
89"	89"	44 3/4"	44 3/4"
89 1/2"	89 1/2"	45"	45"
90"	90"	45 1/4"	45 1/4"
90 1/2"	90 1/2"	45 1/2"	45 1/2"
91"	91"	45 3/4"	45 3/4"
91 1/2"	91 1/2"	46"	46"
92"	92"	46 1/4"	46 1/4"
92 1/2"	92 1/2"	46 1/2"	46 1/2"
93"	93"	46 3/4"	46 3/4"
93 1/2"	93 1/2"	47"	47"
94"	94"	47 1/4"	47 1/4"
94 1/2"	94 1/2"	47 1/2"	47 1/2"
95"	95"	47 3/4"	47 3/4"
95 1/2"	95 1/2"	48"	48"
96"	96"	48 1/4"	48 1/4"
96 1/2"	96 1/2"	48 1/2"	48 1/2"
97"	97"	48 3/4"	48 3/4"
97 1/2"	97 1/2"	49"	49"
98"	98"	49 1/4"	49 1/4"
98 1/2"	98 1/2"	49 1/2"	49 1/2"
99"	99"	49 3/4"	49 3/4"
99 1/2"	99 1/2"	50"	50"
100"	100"	50 1/4"	50 1/4"
100 1/2"	100 1/2"	50 1/2"	50 1/2"
101"	101"	50 3/4"	50 3/4"
101 1/2"	101 1/2"	51"	51"
102"	102"	51 1/4"	51 1/4"
102 1/2"	102 1/2"	51 1/2"	51 1/2"
103"	103"	51 3/4"	51 3/4"
103 1/2"	103 1/2"	52"	52"
104"	104"	52 1/4"	52 1/4"
104 1/2"	104 1/2"	52 1/2"	52 1/2"
105"	105"	52 3/4"	52 3/4"
105 1/2"	105 1/2"	53"	53"
106"	106"	53 1/4"	53 1/4"
106 1/2"	106 1/2"	53 1/2"	53 1/2"
107"	107"	53 3/4"	53 3/4"
107 1/2"	107 1/2"	54"	54"
108"	108"	54 1/4"	54 1/4"
108 1/2"	108 1/2"	54 1/2"	54 1/2"
109"	109"	54 3/4"	54 3/4"
109 1/2"	109 1/2"	55"	55"
110"	110"	55 1/4"	55 1/4"
110 1/2"	110 1/2"	55 1/2"	55 1/2"
111"	111"	55 3/4"	55 3/4"
111 1/2"	111 1/2"	56"	56"
112"	112"	56 1/4"	56 1/4"
112 1/2"	112 1/2"	56 1/2"	56 1/2"
113"	113"	56 3/4"	56 3/4"
113 1/2"	113 1/2"	57"	57"
114"	114"	57 1/4"	57 1/4"
114 1/2"	114 1/2"	57 1/2"	57 1/2"
115"	115"	57 3/4"	57 3/4"
115 1/2"	115 1/2"	58"	58"
116"	116"	58 1/4"	58 1/4"
116 1/2"	116 1/2"	58 1/2"	58 1/2"
117"	117"	58 3/4"	58 3/4"
117 1/2"	117 1/2"	59"	59"
118"	118"	59 1/4"	59 1/4"
118 1/2"	118 1/2"	59 1/2"	59 1/2"
119"	119"	59 3/4"	59 3/4"
119 1/2"	119 1/2"	60"	60"
120"	120"	60 1/4"	60 1/4"
120 1/2"	120 1/2"	60 1/2"	60 1/2"
121"	121"	60 3/4"	60 3/4"
121 1/2"	121 1/2"	61"	61"
122"	122"	61 1/4"	61 1/4"
122 1/2"	122 1/2"	61 1/2"	61 1/2"
123"	123"	61 3/4"	61 3/4"
123 1/2"	123 1/2"	62"	62"
124"			

BOLTS		RIVETS		RIVETS		RIVETS		RIVETS		RIVETS	
Size	Head	Size	Head	Size	Head	Size	Head	Size	Head	Size	Head
1/2"	Hex	3/4"	Hex	3/4"	Hex	3/4"	Hex	3/4"	Hex	3/4"	Hex
3/8"	Hex	3/4"	Hex	3/4"	Hex	3/4"	Hex	3/4"	Hex	3/4"	Hex
1/4"	Hex	3/4"	Hex	3/4"	Hex	3/4"	Hex	3/4"	Hex	3/4"	Hex
1/8"	Hex	3/4"	Hex	3/4"	Hex	3/4"	Hex	3/4"	Hex	3/4"	Hex



U2-4, 4W
 U6-8, 4E - Same as U2-4, 4W except for Light Brkt Conn.
 U2-4, 4E - Left of U6-8, 4E
 U6-8, 4W - Left of U2-4, 4W except as shown for Light Brkt Conn.
 Lift. Wt. - 10 Tons

Span 4	Div. 7	Div. 3	Total	REQUIRED Description	Mark
1	1	1	1	Top Chord	U2-4, 4E
1	1	1	1	do	U2-4, 4W
1	1	1	1	do	U6-8, 4E
1	1	1	1	do	U6-8, 4W

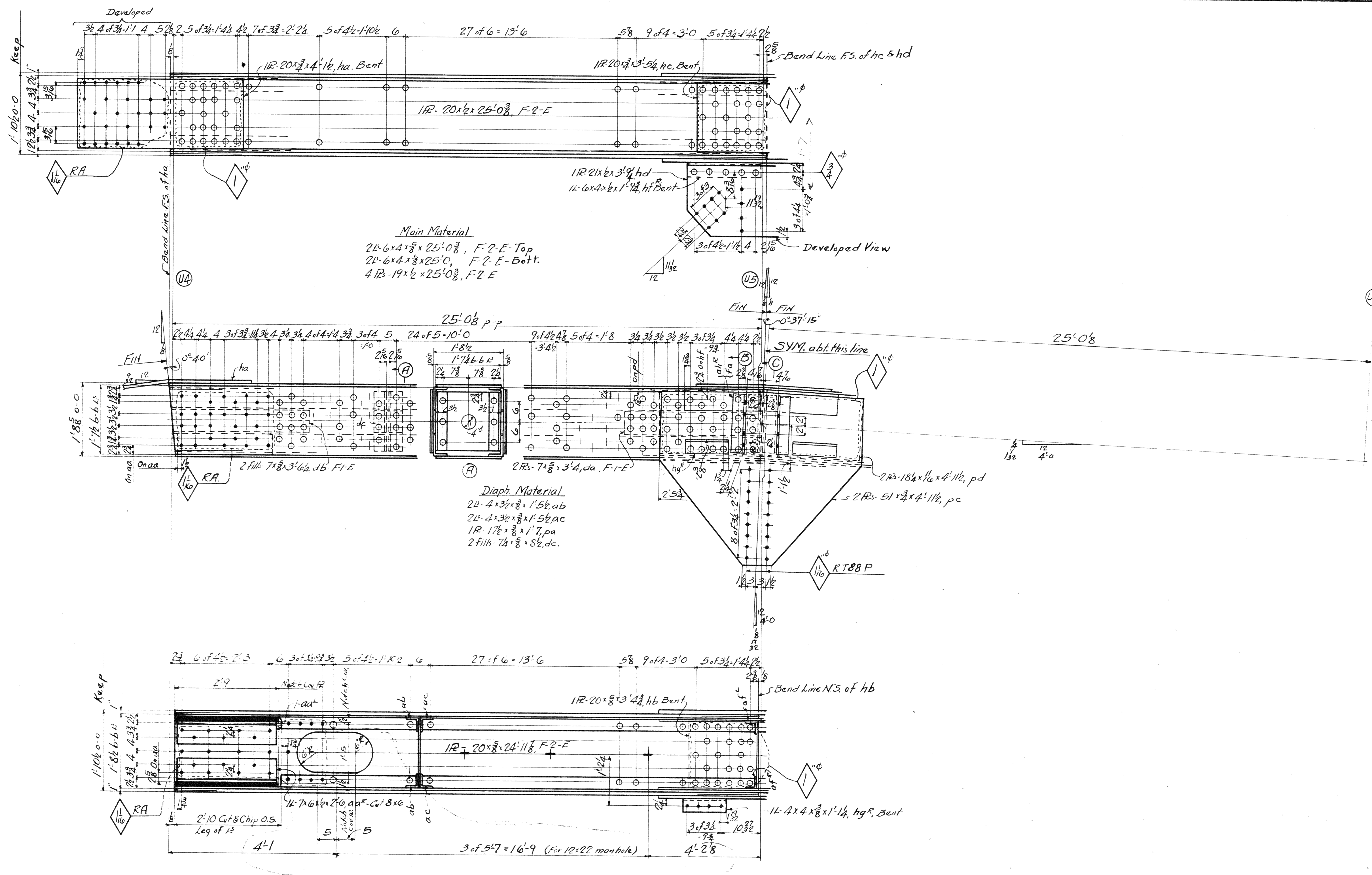


MATERIAL: U.S. Steel A.S.T.M. A7-26
 Copper bearing 0.20 min. copper content
 SPECIFICATIONS: Special by Wilbur
 Wilson & Associates also Ohio State
 Highway
 INSPECTION: James H. Herron Co.
 ERECTION: A.B.Co.
 RIVETS: 7/8" unless noted
 OPEN HOLES: 1/2" unless noted
 REAMING: All holes in material 7/8" thick
 or less subpunched 1/2" dia. and reamed
 to size while parts are assembled.
 Holes in material more than 7/8" thick
 shall be drilled.
 Holes for bracing and diaphragms which
 do not pass thru main truss material
 may be punched full size.
 Holes marked RT subpunched or sub-
 drilled 1/2" dia. and reamed to size to
 a metal template.
 Holes marked RA reamed while chords
 of trusses are assembled.

PAINT: Yes
 CONTACT SURFACES: No. (Shop Field)

Lorain County, Ohio
 EAST 21st STREET BRIDGE
 Lorain, Ohio

AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT Amb. PLANT.
 WORK FABRICATED AT Amb. PLANT.
 IN CHARGE OF Loughman D.R.#2
 DRAWN BY E.R.M. DATE 7-27-39
 DRAWN CHECKED BY ALC DATE 8-2-39
 ORDER NO. H2524 SHEET NO. 302



U4-6.4W } Alike
 U4-6.4E }
 Lift Wt. - 9 Tons

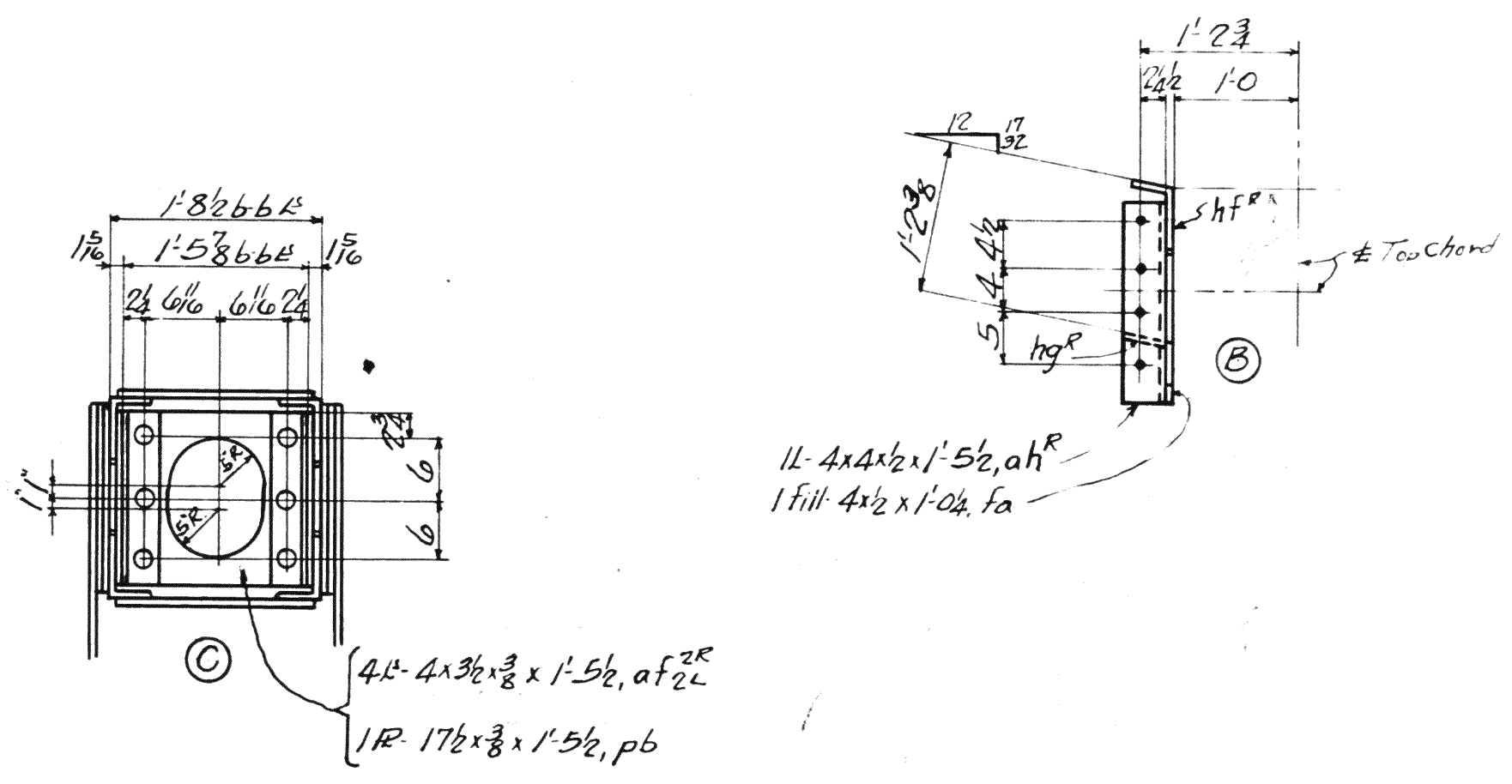
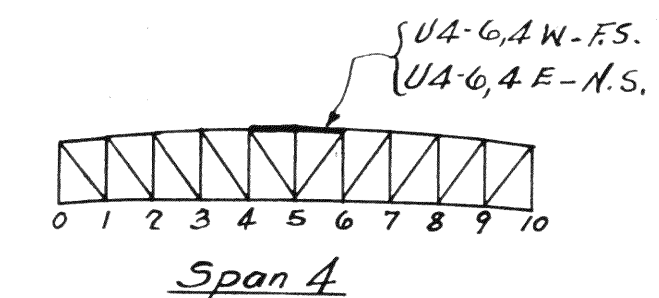
Span	REQUIRED		
Div.	Total	Description	Mark
1	1	Top chord	U4-6.4W
1	1	do	U4-6.4E

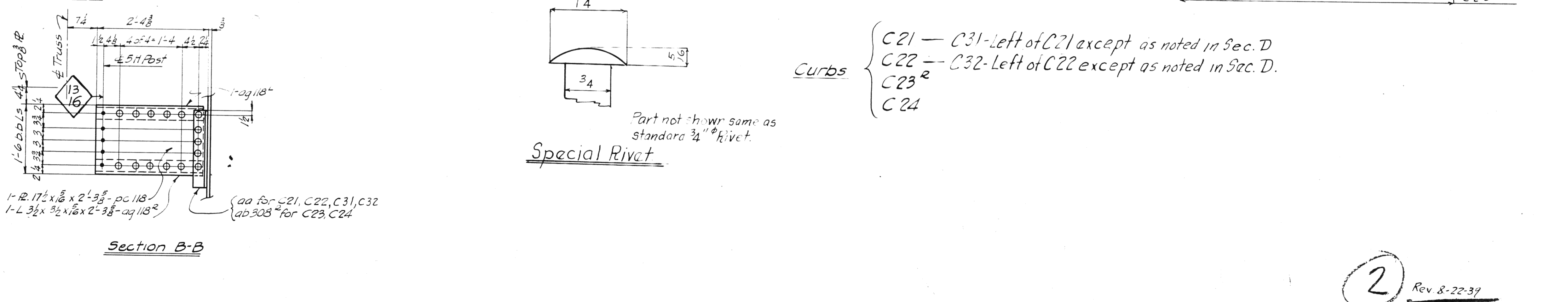
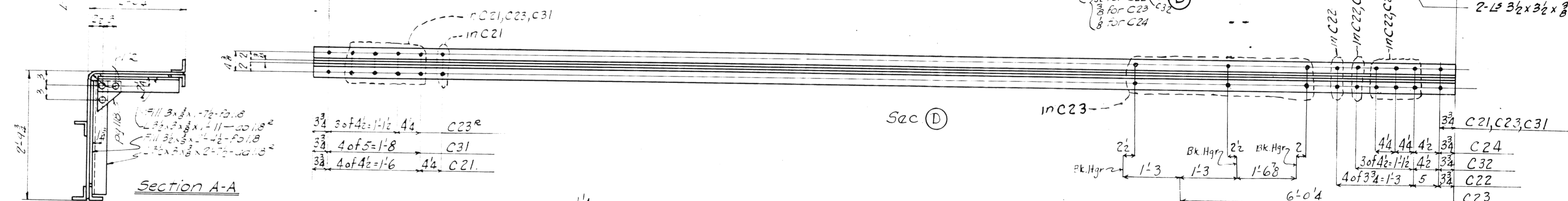
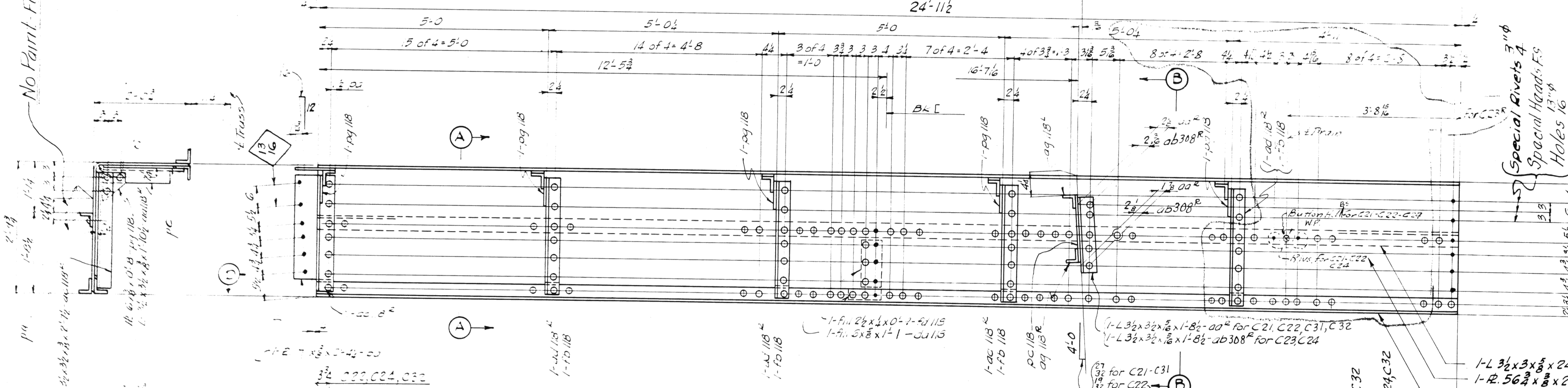
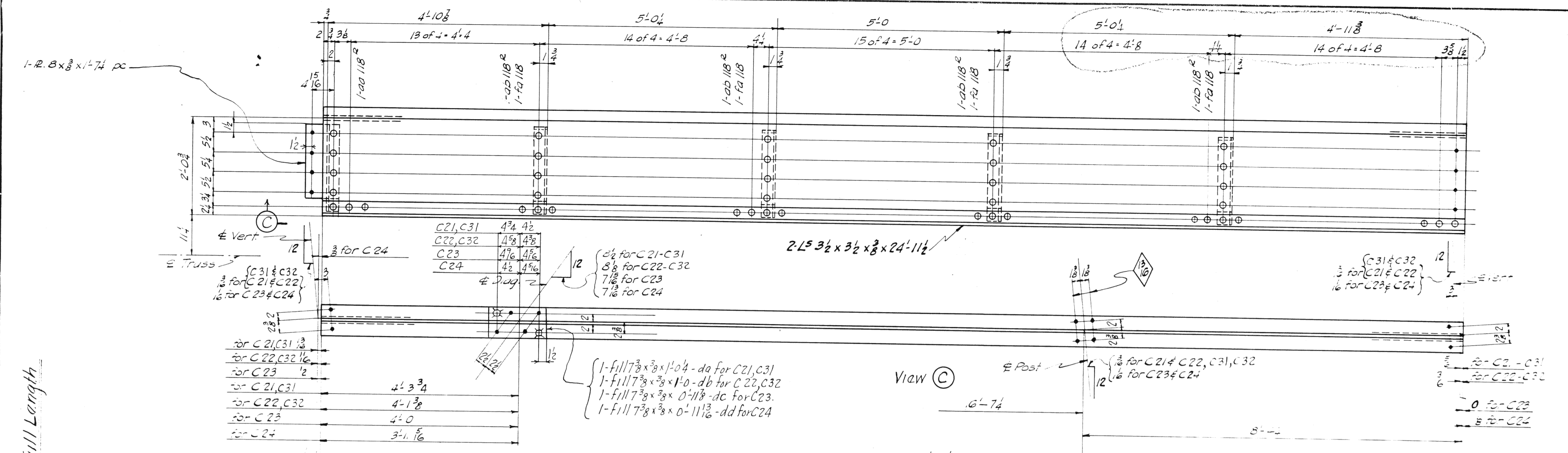
MATERIAL: D.H. Steel A.S.T.M. A7-36
 Copper bearing 0.20 min. copper content
 SPECIFICATIONS: Special by Willour
 Watson & Associates also Ohio State
 Highway
 INSPECTION: James H. Heron C.E.
 ERECTION: A.B.Co.
 RIVETS: $\frac{3}{8}$ unless noted
 OPEN HOLES: $\frac{1}{8}$ unless noted
 REAMING: All holes in material $\frac{3}{8}$ thick
 or less subpunched $\frac{1}{16}$ dia. and reamed
 to size while parts are assembled.
 Holes in material more than $\frac{3}{8}$ thick
 shall be drilled.
 Holes for bracing and diaphragms which
 do not pass thru main truss material
 may be punched full size.
 Holes marked RT subpunched or sub-
 drilled $\frac{1}{16}$ dia. and reamed to size to
 a metal template.
 Holes marked RA reamed while chords
 of trusses are assembled.
 PAINT: Yes
 CONTACT SURFACES: No (Shop & Field)

Lorain County, Ohio
 EAST 21st STREET BRIDGE
 Lorain, Ohio

AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT *Amb.* PLANT.
 WORK FABRICATED AT *Amb.*
 IN CHARGE OF *Loughman-D.R.#2*
 DRAW. MADE BY *E.R.M.* DATE
 DRAW. CHECKED BY *A.L.C.* DATE 8-2-39
 ORDER No. **H2524** SHEET No. **303**

Rev. 8-25-39





Span 4

DIV.	DIV.	Required		
		No.	Description	Mark
7	3			
	1	1	Curb	C21
1	1	1	Curb	C31
	1	1	Curb	C22
1	1	1	Curb	C32
	1	1	Curb	C23
1	1	1	Curb	C23 ⁺
	1	1	Curb	C24

Curbs
 { C21 - C31-Left of C21 except as noted in Sec. D
 C22 - C32-Left of C22 except as noted in Sec. D.
 C23⁺
 C24

Special Rivet
 Part not shown same as standard 3/4" rivet.

2 Rev 8-22-37

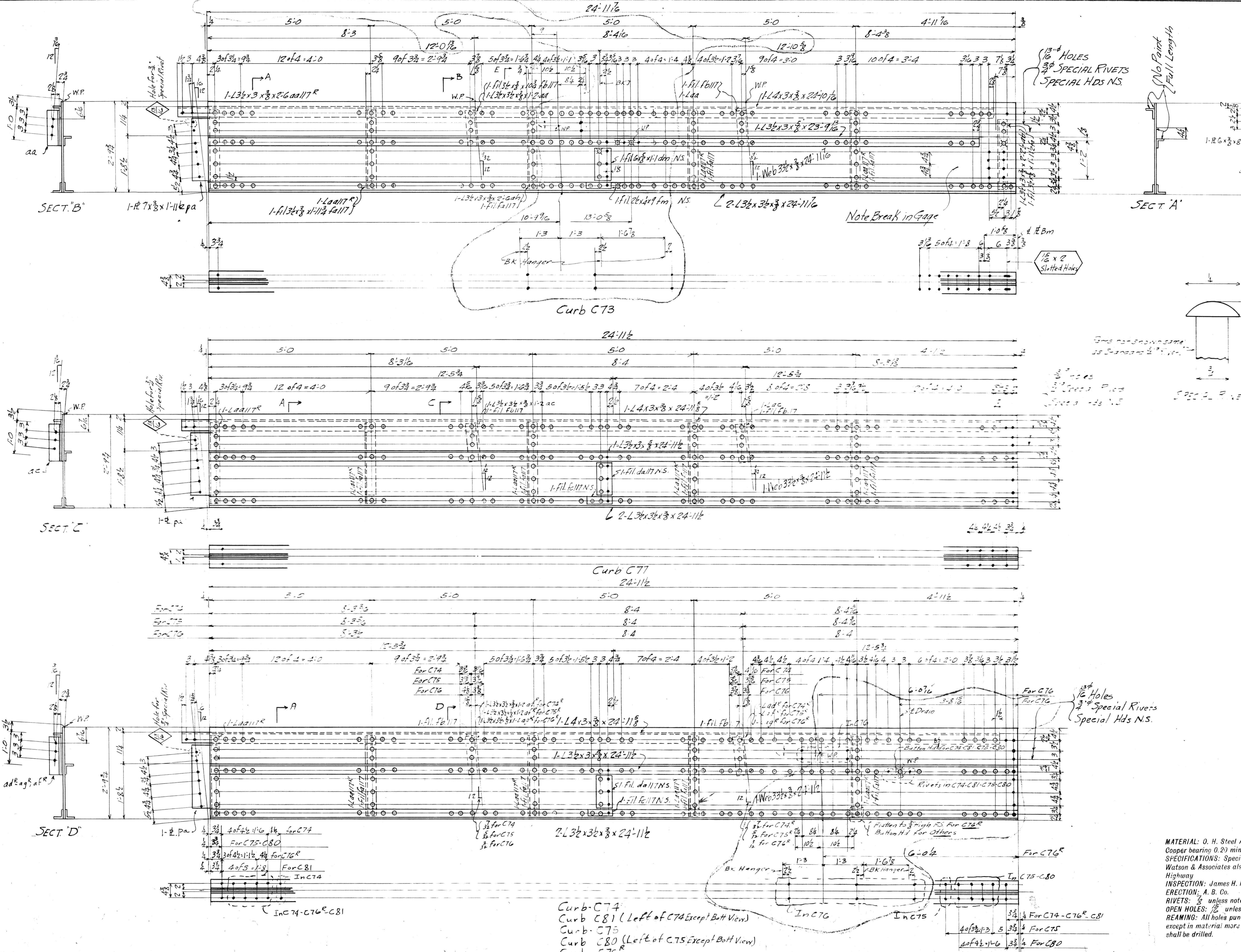
MATERIAL: U.S. Steel A.S.T.M. A7-36
 Copper bearing 0.30 min. copper content
 SPECIFICATIONS: Special by Wilbur
 Watson & Associates also Ohio State
 Highway
 INSPECTION: James H. Heron Co.
 ERECTION: A.B.C.
 RIVETS: 8 unless noted
 OPEN HOLES: 1/8 unless noted
 REAMING: All holes punched full size
 except in material more than 3/8 thick
 shall be drilled.

Lorain County, Ohio
EAST 21st STREET BRIDGE
 Lorain, Ohio

D63-2M-10-33
AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT Ambridge PLANT.
 WORK FABRICATED AT Ambridge PLANT.
 IN CHARGE OF Loughman D.R.#2
 DRAW. MADE BY H.R.F. (Jee) DATE 6-22-37
 DRAW. CHECKED BY F.E.S. DATE 8-4-39

PAINT: Yes-except as noted in End View
 CONTACT SURFACES: No. (Shop & Field)

ORDER NO. H12524 SHEET NO. 308



Span	Span A	REQUIRED		
Div. 1	Div. 3	Total No.	Description	Mark
	1	1	Curbs	C73
	1	1	do	C77
	1	1	do	C74
1	1	1	do	C81
	1	1	do	C75
1	1	1	do	C80
	1	1	do	C76
	1	1	do	C76 ^R

West Curb
 Lorain County, Ohio
 EAST 21st STREET BRIDGE
 Lorain, Ohio

MATERIAL: O. H. Steel A.S.T.M. A7-36
 Copper bearing 0.2% min. copper content
 SPECIFICATIONS: Special by Wilbur
 Watson & Associates also Ohio State
 Highway
 INSPECTION: James H. Herron Co.
 ERECTION: A. B. Co.
 RIVETS: 3/8 unless noted
 OPEN HOLES: 1/2 unless noted
 REAMING: All holes punched full size
 except in material more than 1/2 inch
 shall be drilled.

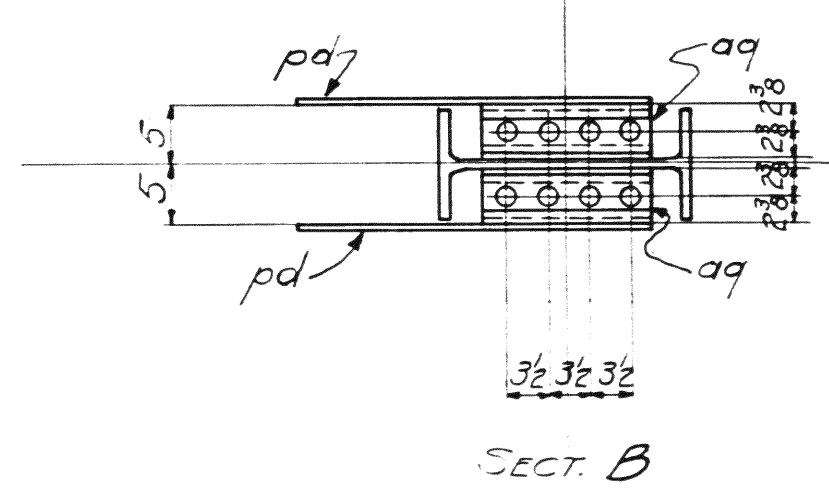
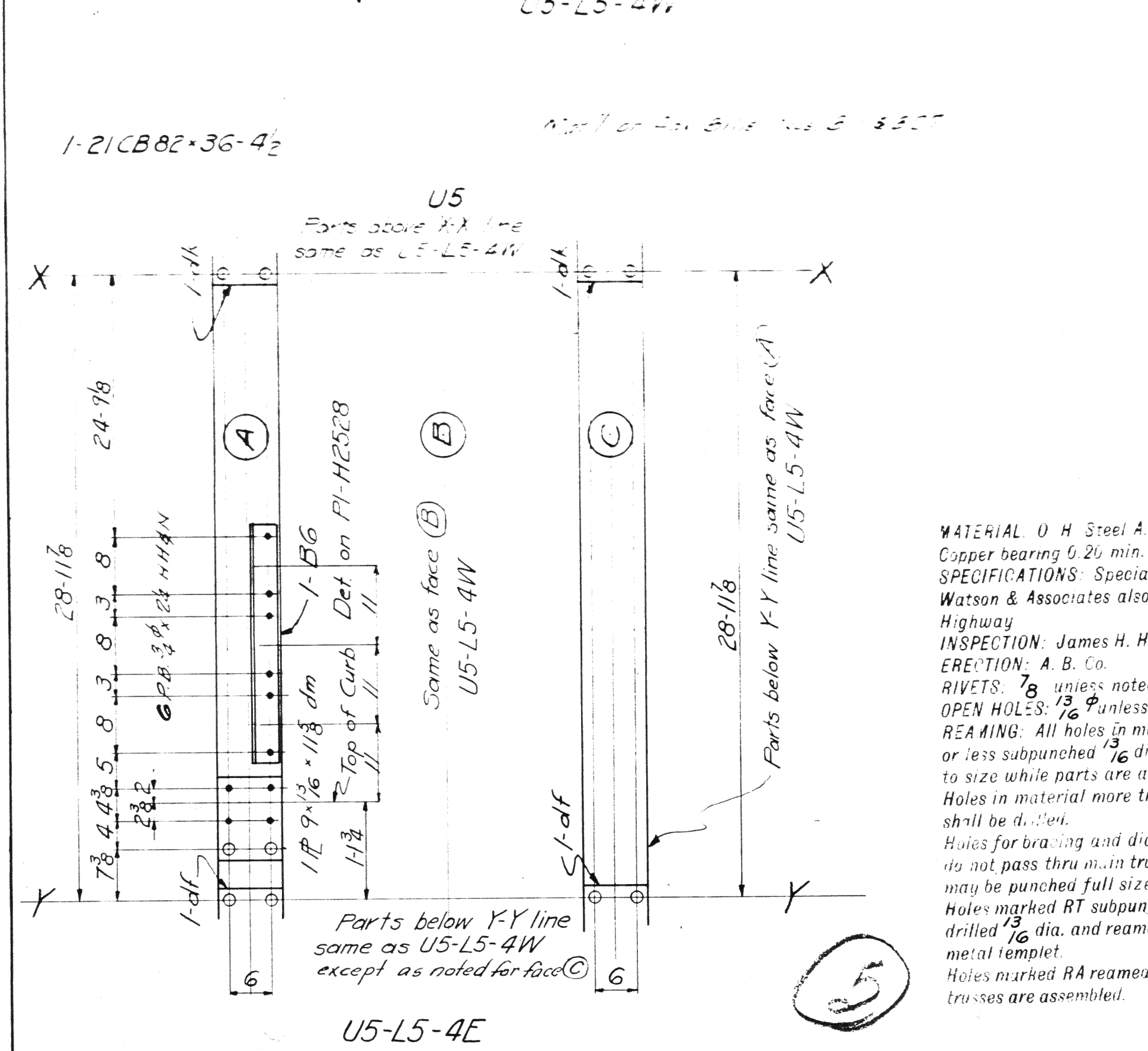
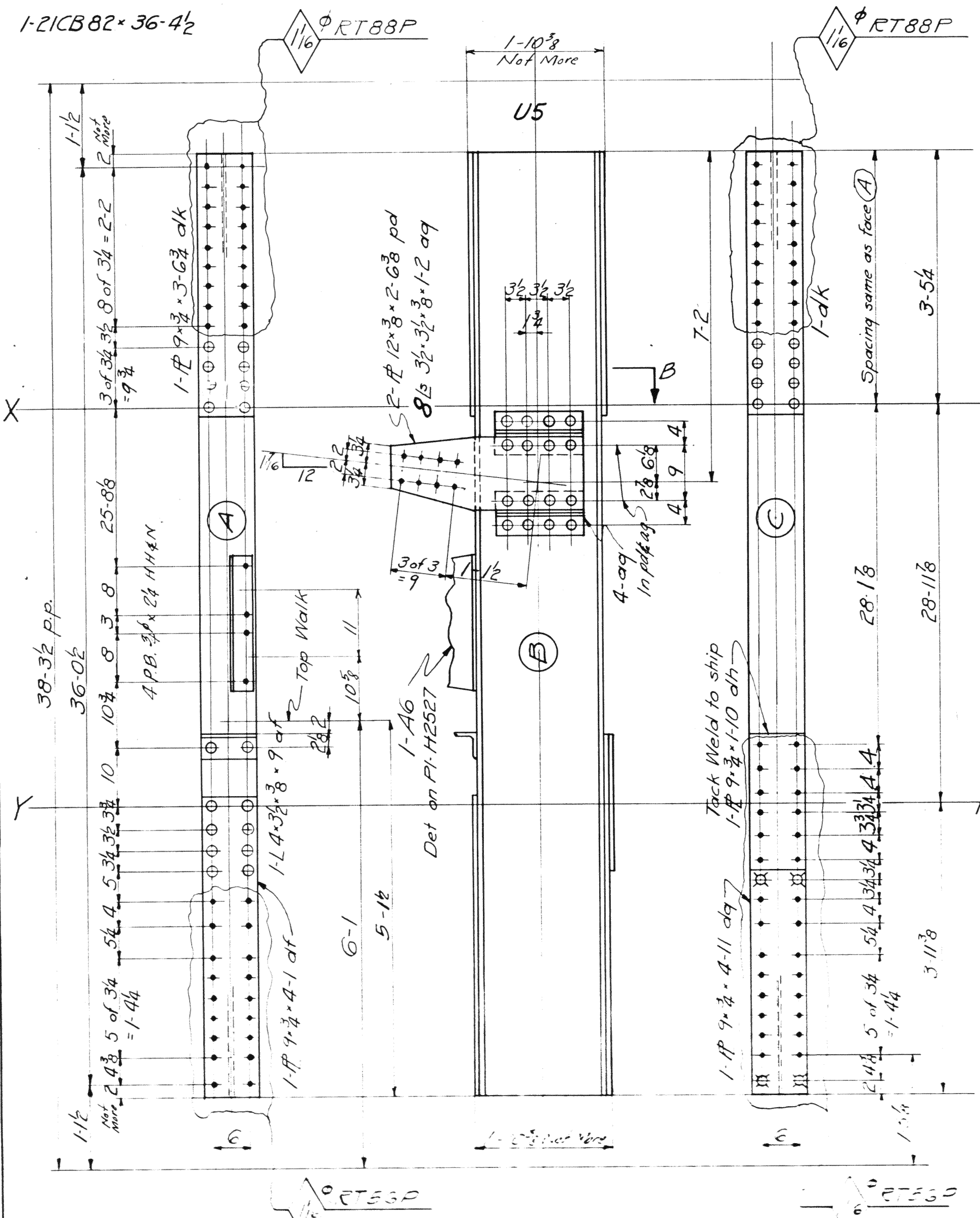
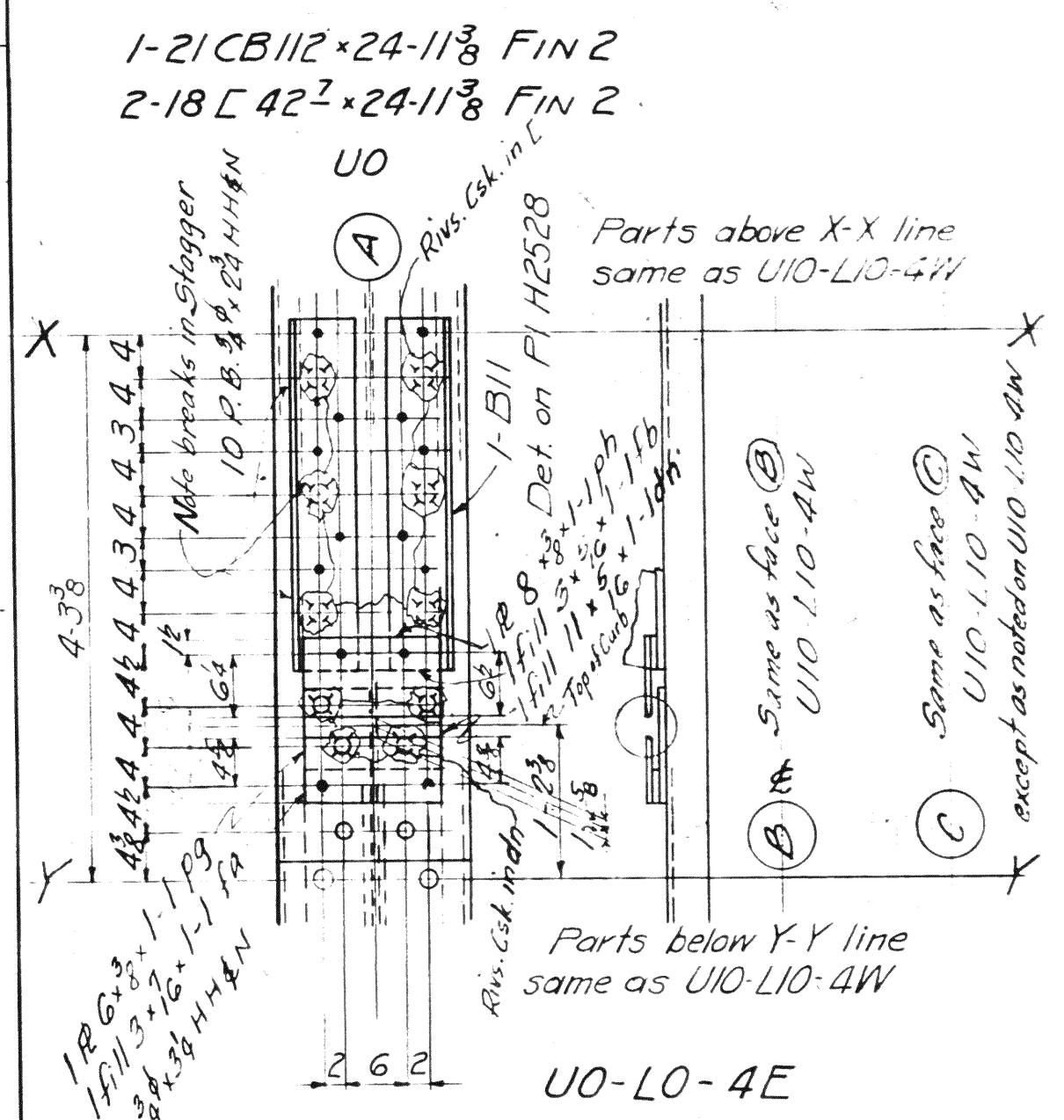
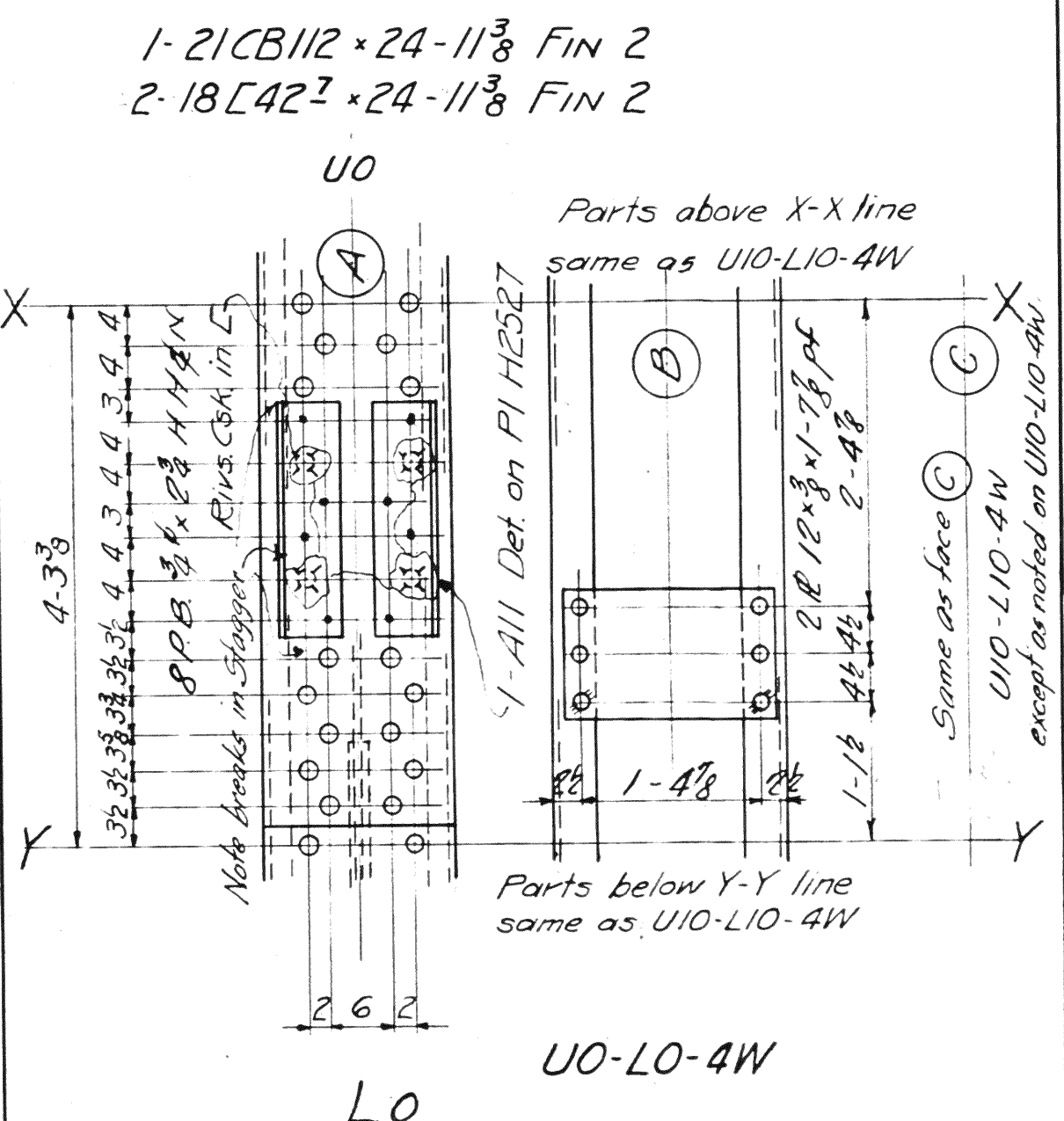
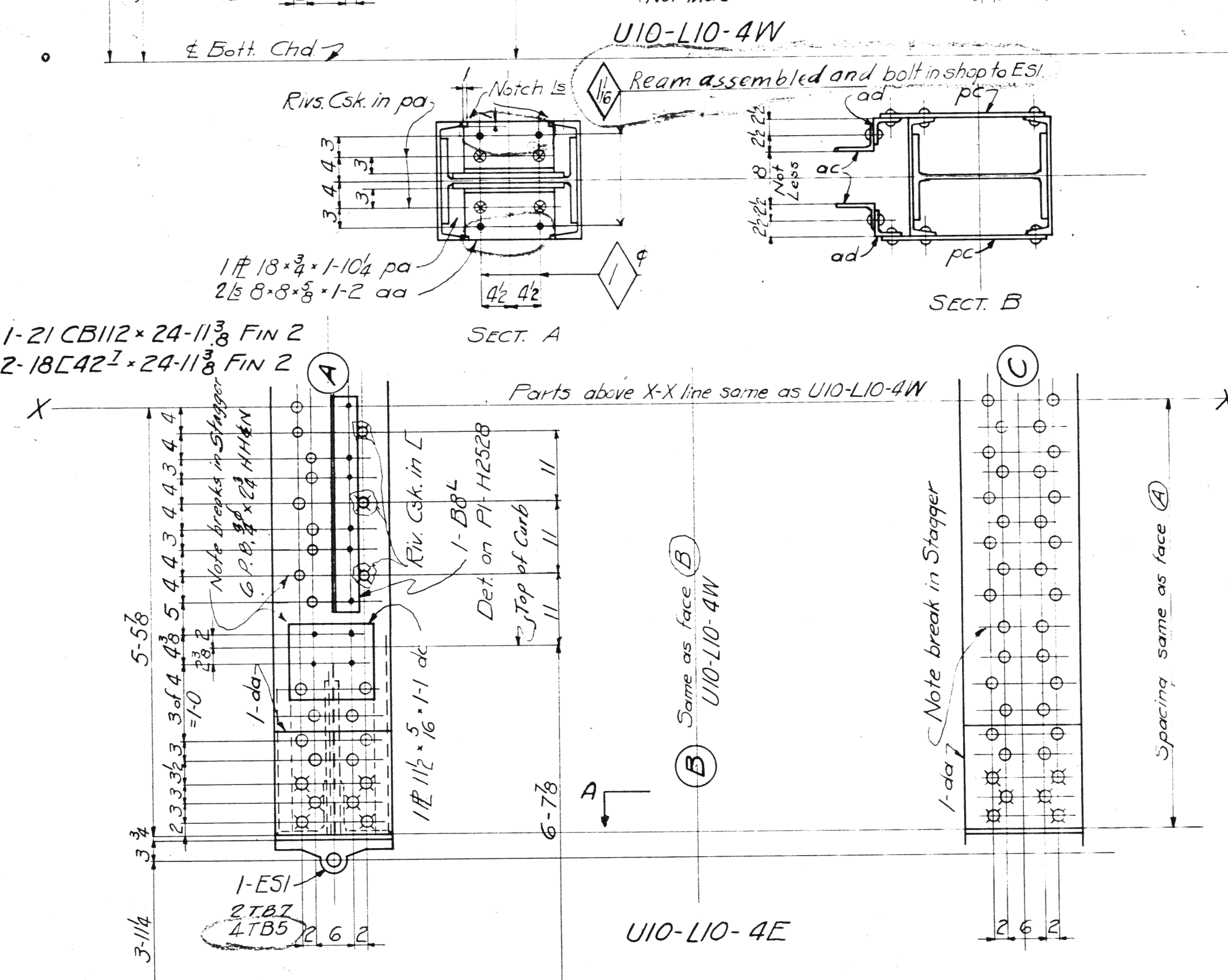
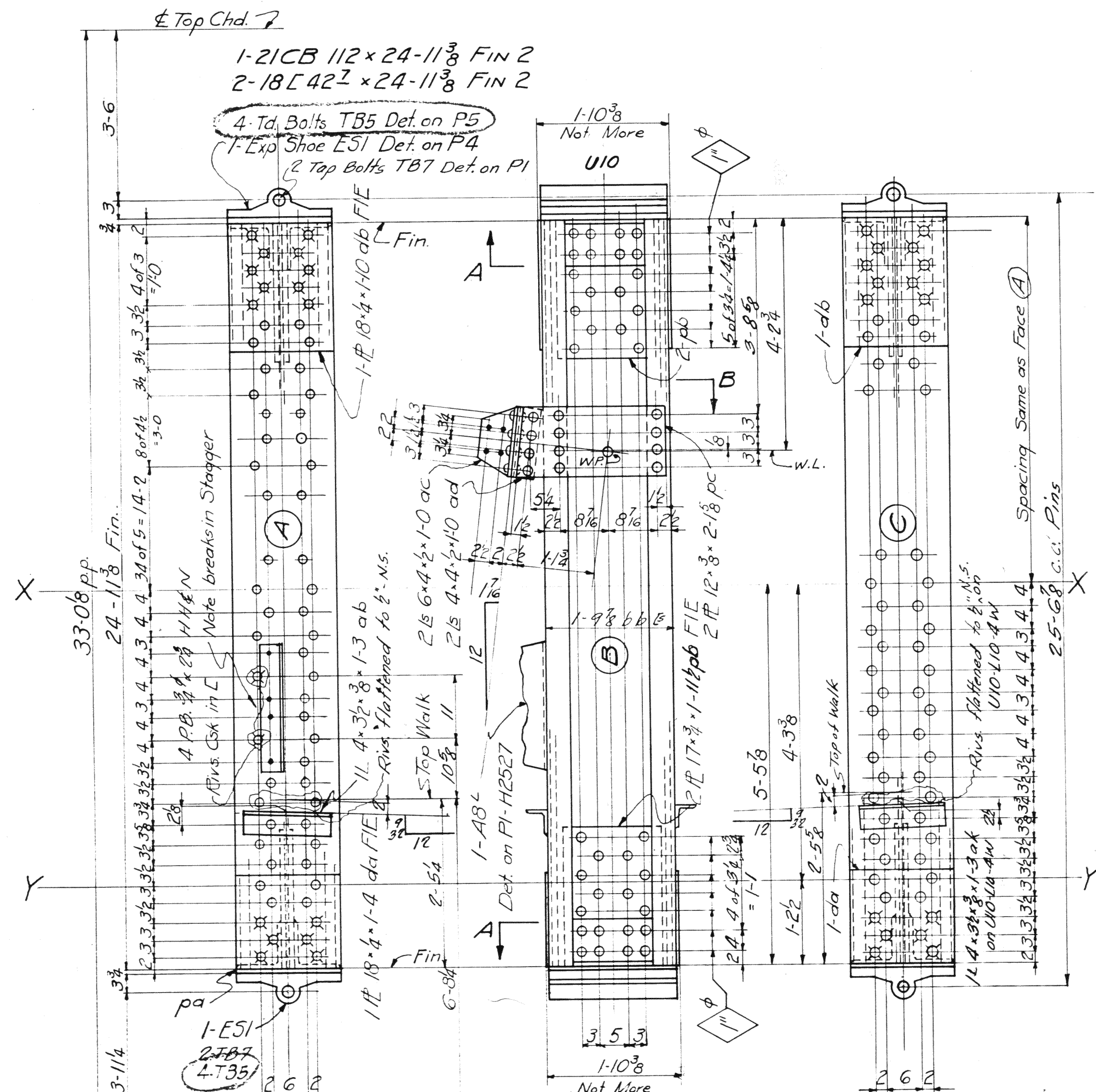
AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT Ambridge PLANT.
 WORK FABRICATED AT Ambridge PLANT.
 IN CHARGE OF Laughman D.R.#2
 DRAW. MADE BY JCR DATE 7-13-39
 DRAW. CHECKED BY JEL DATE 7-31-39

PAINT: Yes Except as Noted in Sect. A
 CONTACT SURFACES: No. Field & Shop

ORDER No. H2524 SHEET No. 309

Curb C74
 Curb C81 (Left of C74 Except Both View)
 Curb C75
 Curb C80 (Left of C75 Except Both View)
 Curb C76^R

Rev. 8-22-39
 Rev. 8/15/39



SPAN 4

SECTION	REQ.	REQ. RED.	MARK
7	3	3	VERTICAL
1	1		UO-LG-4W
1	1		UO-LG-4E
1	1		UO-LG-4W
1	1		UO-LG-4E
1	1		U5-L5-4W
1	1		U5-L5-4E

MATERIAL: U. S. Steel A. S. T. M. A7-36
 Copper bearing 0.20 min. copper content
 SPECIFICATIONS: Special by Wilbur Watson & Associates also Ohio State Highway
 INSPECTION: James H. Herron Co.
 ERECTION: A. B. Co.
 RIVETS: 3/8 unless noted
 OPEN HOLES: 7/8 unless noted
 REAMING: All holes in material 7/8 thick or less subpunched 1/16 dia. and reamed to size while parts are assembled.
 Holes in material more than 7/8 thick shall be drilled.
 Holes for bracing and diaphragms which do not pass thru in truss material may be punched full size.
 Holes marked RT subpunched or subdrilled 1/16 dia. and reamed to size to a metal template.
 Holes marked RA reamed while chords of trusses are assembled.

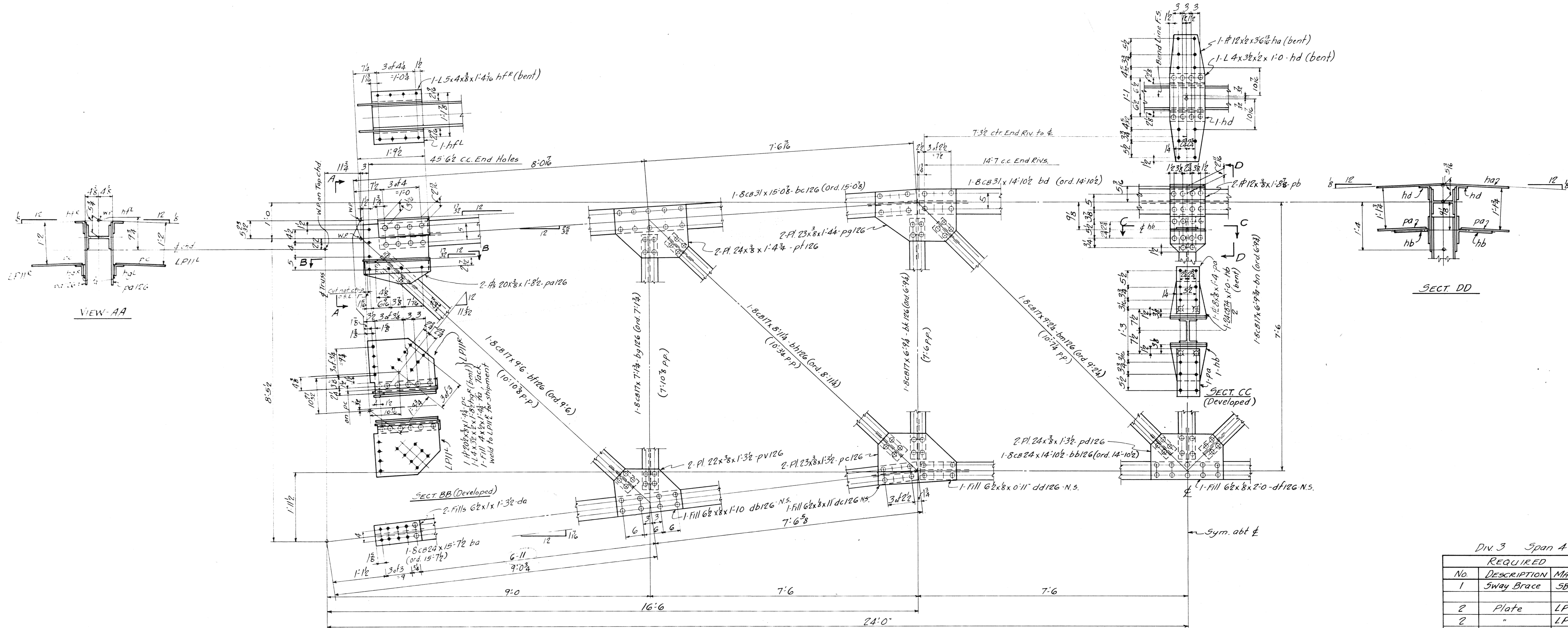
Lorain County, Ohio
 EAST 21st STREET BRIDGE
 Lorain, Ohio

AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT Ambridge PLANT.
 WORK FABRICATED AT Ambridge PLANT.
 IN CHARGE OF Loughman #2
 DRAW. MADE BY JJD DATE 8-1-39
 DRAW. CHECKED BY ALC DATE 8-8-39

ORDER NO. H2524 SHEET NO. 3/2

REV. 10-2-39

BOLTS	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	4 1/2"	5"	5 1/2"	6"	6 1/2"	7"	7 1/2"	8"	8 1/2"	9"	9 1/2"	10"	10 1/2"	11"	11 1/2"	12"	12 1/2"	14"	16"	18"	20"	24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"	144"	168"	192"	216"	240"	288"	336"	384"	432"	480"	528"	576"	624"	672"	720"	768"	816"	864"	912"	960"	1008"	1056"	1104"	1152"	1200"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
RIVETS	1/2"	5/8"	3/4"	7/8"	1"	1 1/8"	1 1/4"	1 1/2"	1 3/4"	2"	2 1/4"	2 1/2"	2 3/4"	3"	3 1/4"	3 1/2"	3 3/4"	4"	4 1/4"	4 1/2"	4 3/4"	5"	5 1/4"	5 1/2"	5 3/4"	6"	6 1/4"	6 1/2"	6 3/4"	7"	7 1/4"	7 1/2"	7 3/4"	8"	8 1/4"	8 1/2"	8 3/4"	9"	9 1/4"	9 1/2"	9 3/4"	10"	10 1/4"	10 1/2"	10 3/4"	11"	11 1/4"	11 1/2"	11 3/4"	12"	12 1/4"	12 1/2"	12 3/4"	13"	13 1/4"	13 1/2"	13 3/4"	14"	14 1/4"	14 1/2"	14 3/4"	15"	15 1/4"	15 1/2"	15 3/4"	16"	16 1/4"	16 1/2"	16 3/4"	17"	17 1/4"	17 1/2"	17 3/4"	18"	18 1/4"	18 1/2"	18 3/4"	19"	19 1/4"	19 1/2"	19 3/4"	20"	20 1/4"	20 1/2"	20 3/4"	21"	21 1/4"	21 1/2"	21 3/4"	22"	22 1/4"	22 1/2"	22 3/4"	23"	23 1/4"	23 1/2"	23 3/4"	24"	24 1/4"	24 1/2"	24 3/4"	25"	25 1/4"	25 1/2"	25 3/4"	26"	26 1/4"	26 1/2"	26 3/4"	27"	27 1/4"	27 1/2"	27 3/4"	28"	28 1/4"	28 1/2"	28 3/4"	29"	29 1/4"	29 1/2"	29 3/4"	30"	30 1/4"	30 1/2"	30 3/4"	31"	31 1/4"	31 1/2"	31 3/4"	32"	32 1/4"	32 1/2"	32 3/4"	33"	33 1/4"	33 1/2"	33 3/4"	34"	34 1/4"	34 1/2"	34 3/4"	35"	35 1/4"	35 1/2"	35 3/4"	36"	36 1/4"	36 1/2"	36 3/4"	37"	37 1/4"	37 1/2"	37 3/4"	38"	38 1/4"	38 1/2"	38 3/4"	39"	39 1/4"	39 1/2"	39 3/4"	40"	40 1/4"	40 1/2"	40 3/4"	41"	41 1/4"	41 1/2"	41 3/4"	42"	42 1/4"	42 1/2"	42 3/4"	43"	43 1/4"	43 1/2"	43 3/4"	44"	44 1/4"	44 1/2"	44 3/4"	45"	45 1/4"	45 1/2"	45 3/4"	46"	46 1/4"	46 1/2"	46 3/4"	47"	47 1/4"	47 1/2"	47 3/4"	48"	48 1/4"	48 1/2"	48 3/4"	49"	49 1/4"	49 1/2"	49 3/4"	50"	50 1/4"	50 1/2"	50 3/4"	51"	51 1/4"	51 1/2"	51 3/4"	52"	52 1/4"	52 1/2"	52 3/4"	53"	53 1/4"	53 1/2"	53 3/4"	54"	54 1/4"	54 1/2"	54 3/4"	55"	55 1/4"	55 1/2"	55 3/4"	56"	56 1/4"	56 1/2"	56 3/4"	57"	57 1/4"	57 1/2"	57 3/4"	58"	58 1/4"	58 1/2"	58 3/4"	59"	59 1/4"	59 1/2"	59 3/4"	60"	60 1/4"	60 1/2"	60 3/4"	61"	61 1/4"	61 1/2"	61 3/4"	62"	62 1/4"	62 1/2"	62 3/4"	63"	63 1/4"	63 1/2"	63 3/4"	64"	64 1/4"	64 1/2"	64 3/4"	65"	65 1/4"	65 1/2"	65 3/4"	66"	66 1/4"	66 1/2"	66 3/4"	67"	67 1/4"	67 1/2"	67 3/4"	68"	68 1/4"	68 1/2"	68 3/4"	69"	69 1/4"	69 1/2"	69 3/4"	70"	70 1/4"	70 1/2"	70 3/4"	71"	71 1/4"	71 1/2"	71 3/4"	72"	72 1/4"	72 1/2"	72 3/4"	73"	73 1/4"	73 1/2"	73 3/4"	74"	74 1/4"	74 1/2"	74 3/4"	75"	75 1/4"	75 1/2"	75 3/4"	76"	76 1/4"	76 1/2"	76 3/4"	77"	77 1/4"	77 1/2"	77 3/4"	78"	78 1/4"	78 1/2"	78 3/4"	79"	79 1/4"	79 1/2"	79 3/4"	80"	80 1/4"	80 1/2"	80 3/4"	81"	81 1/4"	81 1/2"	81 3/4"	82"	82 1/4"	82 1/2"	82 3/4"	83"	83 1/4"	83 1/2"	83 3/4"	84"	84 1/4"	84 1/2"	84 3/4"	85"	85 1/4"	85 1/2"	85 3/4"	86"	86 1/4"	86 1/2"	86 3/4"	87"	87 1/4"	87 1/2"	87 3/4"	88"	88 1/4"	88 1/2"	88 3/4"	89"	89 1/4"	89 1/2"	89 3/4"	90"	90 1/4"	90 1/2"	90 3/4"	91"	91 1/4"	91 1/2"	91 3/4"	92"	92 1/4"	92 1/2"	92 3/4"	93"	93 1/4"	93 1/2"	93 3/4"	94"	94 1/4"	94 1/2"	94 3/4"	95"	95 1/4"	95 1/2"	95 3/4"	96"	96 1/4"	96 1/2"	96 3/4"	97"	97 1/4"	97 1/2"	97 3/4"	98"	98 1/4"	98 1/2"	98 3/4"	99"	99 1/4"	99 1/2"	99 3/4"	100"	100 1/4"	100 1/2"	100 3/4"	101"	101 1/4"	101 1/2"	101 3/4"	102"	102 1/4"	102 1/2"	102 3/4"	103"	103 1/4"	103 1/2"	103 3/4"	104"	104 1/4"	104 1/2"	104 3/4"	105"	105 1/4"	105 1/2"	105 3/4"	106"	106 1/4"	106 1/2"	106 3/4"	107"	107 1/4"	107 1/2"	107 3/4"	108"	108 1/4"	108 1/2"	108 3/4"	109"	109 1/4"	109 1/2"	109 3/4"	110"	110 1/4"	110 1/2"	110 3/4"	111"	111 1/4"	111 1/2"	111 3/4"	112"	112 1/4"	112 1/2"	112 3/4"	113"	113 1/4"	113 1/2"	113 3/4"	114"	114 1/4"	114 1/2"	114 3/4"	115"	115 1/4"	115 1/2"	115 3/4"	116"	116 1/4"	116 1/2"	116 3/4"	117"	117 1/4"	117 1/2"	117 3/4"	118"	118 1/4"	118 1/2"	118 3/4"	119"	119 1/4"	119 1/2"	119 3/4"	120"	120 1/4"	120 1/2"	120 3/4"	121"	121 1/4"	121 1/2"	121 3/4"	122"	122 1/4"	122 1/2"	122 3/4"	123"	123 1/4"	123 1/2"	123 3/4"	124"	124 1/4"	124 1/2"	124 3/4"	125"	125 1/4"	125 1/2"	125 3/4"	126"	126 1/4"	126 1/2"	126 3/4"	127"	127 1/4"	127 1/2"	127 3/4"	128"	128 1/4"	128 1/2"	128 3/4"	129"	129 1/4"	129 1/2"	129 3/4"	130"	130 1/4"	130 1/2"	130 3/4"	131"	131 1/4"	131 1/2"	131 3/4"	132"	132 1/4"	132 1/2"	132 3/4"	133"	133 1/4"	133 1/2"	133 3/4"	134"	134 1/4"	134 1/2"	134 3/4"	135"	135 1/4"	135 1/2"	135 3/4"	136"	136 1/4"	136 1/2"	136 3/4"	137"	137 1/4"	137 1/2"	137 3/4"	138"	138 1/4"	138 1/2"	138 3/4"	139"	139 1/4"	139 1/2"	139 3/4"	140"	140 1/4"	140 1/2"	140 3/4"	141"	141 1/4"	141 1/2"	141 3/4"	142"	142 1/4"	142 1/2"	142 3/4"	143"	143 1/4"	143 1/2"	143 3/4"	144"	144 1/4"	144 1/2"	144 3/4"	145"	145 1/4"	145 1/2"	145 3/4"	146"	146 1/4"	146 1/2"	146 3/4"	147"	147 1/4"	147 1/2"	147 3/4"	148"	148 1/4"	148 1/2"	148 3/4"	149"	149 1/4"	149 1/2"	149 3/4"	150"	150 1/4"	150 1/2"	150 3/4"	151"	151 1/4"	151 1/2"	151 3/4"	152"	152 1/4"	152 1/2"	152 3/4"	153"	153 1/4"	153 1/2"	153 3/4"	154"	154 1/4"	154 1/2"	154 3/4"	155"	155 1/4"	155 1/2"	155 3/4"	156"	156 1/4"	156 1/2"	156 3/4"	157"	157 1/4"	157 1/2"	157 3/4"	158"	158 1/4"	158 1/2"	158 3/4"	159"	159 1/4"	159 1/2"	159 3/4"	160"	160 1/4"	160 1/2"	160 3/4"	161"	161 1/4"	161 1/2"	161 3/4"	162"	162 1/4"	162 1/2"	162 3/4"	163"	163 1/4"	163 1/2"	163 3/4"	164"	164 1/4"	164 1/2"	164 3/4"	165"	165 1/4"	165 1/2"	165 3/4"	166"	166 1/4"	166 1/2"	166 3/4"	167"	167 1/4"	167 1/2"	167 3/4"	168"	168 1/4"	168 1/2"	168 3/4"	169"	169 1/4"	169 1/2"	169 3/4"	170"	170 1/4"	170 1/2"	170 3/4"	171"	171 1/4"	171 1/2"	171 3/4"	172"	172 1/4"	172 1/2"	172 3/4"	173"	173 1/4"	173 1/2"	173 3/4"	174"	174 1/4"	174 1/2"	174 3/4"	175"	175 1/4"	175 1/2"	175 3/4"	176"	176 1/4"	176 1/2"	176 3/4"	177"	177 1/4"	177 1/2"	177 3/4"	178"	178 1/4"	178 1/2"	178 3/4"	179"	179 1/4"	179 1/2"	179 3/4"	180"	180 1/4"	180 1/2"	180 3/4"	181"	181 1/4"	181 1/2"	181 3/4"	182"	182 1/4"	182 1/2"	182 3/4"	183"	183 1/4"	183 1/2"	183 3/4"	184"	184 1/4"	184 1/2"	184 3/4"	185"	185 1/4"	185 1/2"	185 3/4"	186"	186 1/4"	186 1/2"	186 3/4"	187"	187 1/4"	187 1/2"	187 3/4"	188"	188 1/4"	188 1/2"	188 3/4"	189"	189 1/4"	189 1/2"	189 3/4"	190"	190 1/4"	190 1/2"	190 3/4"	191"	191 1/4"	191 1/2"	191 3/4"	192"	192 1/4"	192 1/2"	192 3/4"	193"	193 1/4"	193 1/2"	193 3/4"	194"	194 1/4"	194 1/2"	194 3/4"	195"	195 1/4"	195 1/2"	195 3/4"	196"	196 1/4"	196 1/2"	196 3/4"	197"	197 1/4"	197 1/2"	197 3/4"	198"	198 1/4"	198 1/2"	198 3/4"	199"	199 1/4"	199 1/2"	199 3/4"	200"	200 1/4"	200 1/2"	200 3/4"



MATERIAL: A-36 Steel - S.F.M. 47-55
 COVER PLATING: 0.25 in. min. cover plates
 SPECIFICATIONS: Based on W. W. W. & Associates, Inc. State
 H. W. W. & Associates, Inc. State
 INSPECTION: James M. Heron Co.
 ERECTION: A. B. Co.
 RIVETS: 3/4" unless noted
 OPEN HOLES: 1/8" unless noted
 REAMING: All holes punched full size except in material more than 3/8" thick shall be drilled.

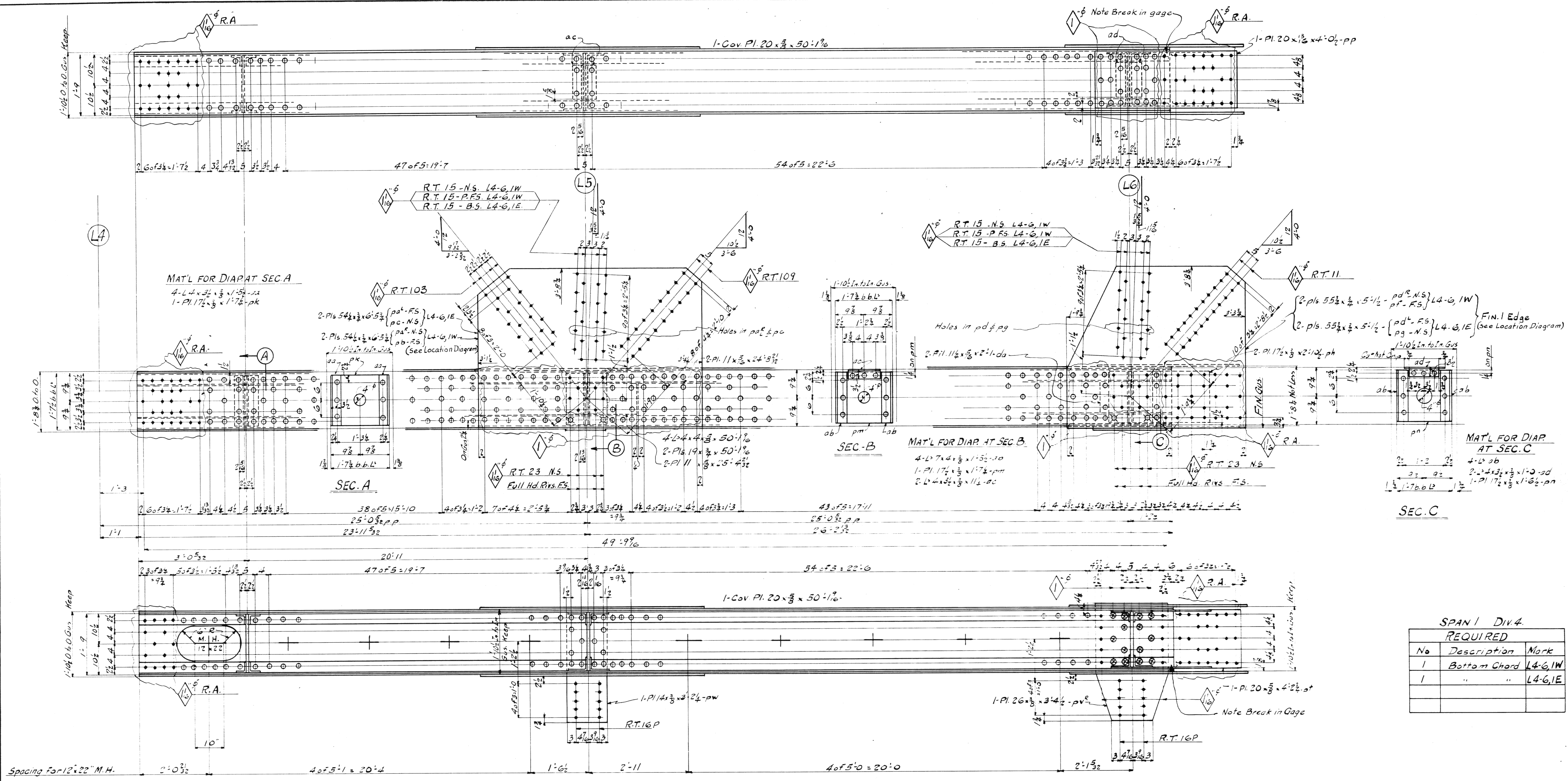
Lorain Court, Chgo
EAST 21st STREET BRIDGE
 Lorain, Ohio

AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT Ambridge PLANT.
 WORK FABRICATED AT Ambridge PLANT.
 IN CHARGE OF Loughman D.R. #2
 DRAW. MADE BY ALH DATE 7-25-39
 DRAW. CHECKED BY J.E. DATE 7-31-39

PAINT: Yes
 CONTACT SURFACES: No, shop & field

ORDER NO. H2524 SHEET NO. 314

BOLTS		RIVETS	
Qty	Size	Qty	Size
1	1/2"	1	1/2"
1	3/8"	1	3/8"
1	1/4"	1	1/4"
1	3/16"	1	3/16"
1	1/8"	1	1/8"
1	1/16"	1	1/16"
1	3/32"	1	3/32"
1	1/32"	1	1/32"
1	1/64"	1	1/64"
1	1/128"	1	1/128"
1	1/256"	1	1/256"
1	1/512"	1	1/512"
1	1/1024"	1	1/1024"
1	1/2048"	1	1/2048"
1	1/4096"	1	1/4096"
1	1/8192"	1	1/8192"
1	1/16384"	1	1/16384"
1	1/32768"	1	1/32768"
1	1/65536"	1	1/65536"
1	1/131072"	1	1/131072"
1	1/262144"	1	1/262144"
1	1/524288"	1	1/524288"
1	1/1048576"	1	1/1048576"
1	1/2097152"	1	1/2097152"
1	1/4194304"	1	1/4194304"
1	1/8388608"	1	1/8388608"
1	1/16777216"	1	1/16777216"
1	1/33554432"	1	1/33554432"
1	1/67108864"	1	1/67108864"
1	1/134217728"	1	1/134217728"
1	1/268435456"	1	1/268435456"
1	1/536870912"	1	1/536870912"
1	1/1073741824"	1	1/1073741824"
1	1/2147483648"	1	1/2147483648"
1	1/4294967296"	1	1/4294967296"
1	1/8589934592"	1	1/8589934592"
1	1/17179869184"	1	1/17179869184"
1	1/34359738368"	1	1/34359738368"
1	1/68719476736"	1	1/68719476736"
1	1/137438953472"	1	1/137438953472"
1	1/274877907344"	1	1/274877907344"
1	1/549755814688"	1	1/549755814688"
1	1/1099511629376"	1	1/1099511629376"
1	1/2199023258752"	1	1/2199023258752"
1	1/4398046517504"	1	1/4398046517504"
1	1/8796093035008"	1	1/8796093035008"
1	1/17592186070016"	1	1/17592186070016"
1	1/35184372140032"	1	1/35184372140032"
1	1/70368744280064"	1	1/70368744280064"
1	1/140737488560128"	1	1/140737488560128"
1	1/281474977120256"	1	1/281474977120256"
1	1/562949954240512"	1	1/562949954240512"
1	1/1125899908481024"	1	1/1125899908481024"
1	1/2251799816962048"	1	1/2251799816962048"
1	1/4503599633924096"	1	1/4503599633924096"
1	1/9007199267848192"	1	1/9007199267848192"
1	1/18014398535696384"	1	1/18014398535696384"
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SPAN 1 DIV. 4
REQUIRED

No	Description	Mark
1	Bottom Chord	L4-6,1W
1	"	L4-6,1E

L4-6,1W pb pf
 pa^e pd^e
 L4-6,1E pa^t pd^t
 pc pg

L4-6,1W
L4-6,1E - Left of L4-6,1W except Pls. pc & pg. See Location Diagram
 Lift Wt = 10 Tons.

LOCATION DIAGRAM

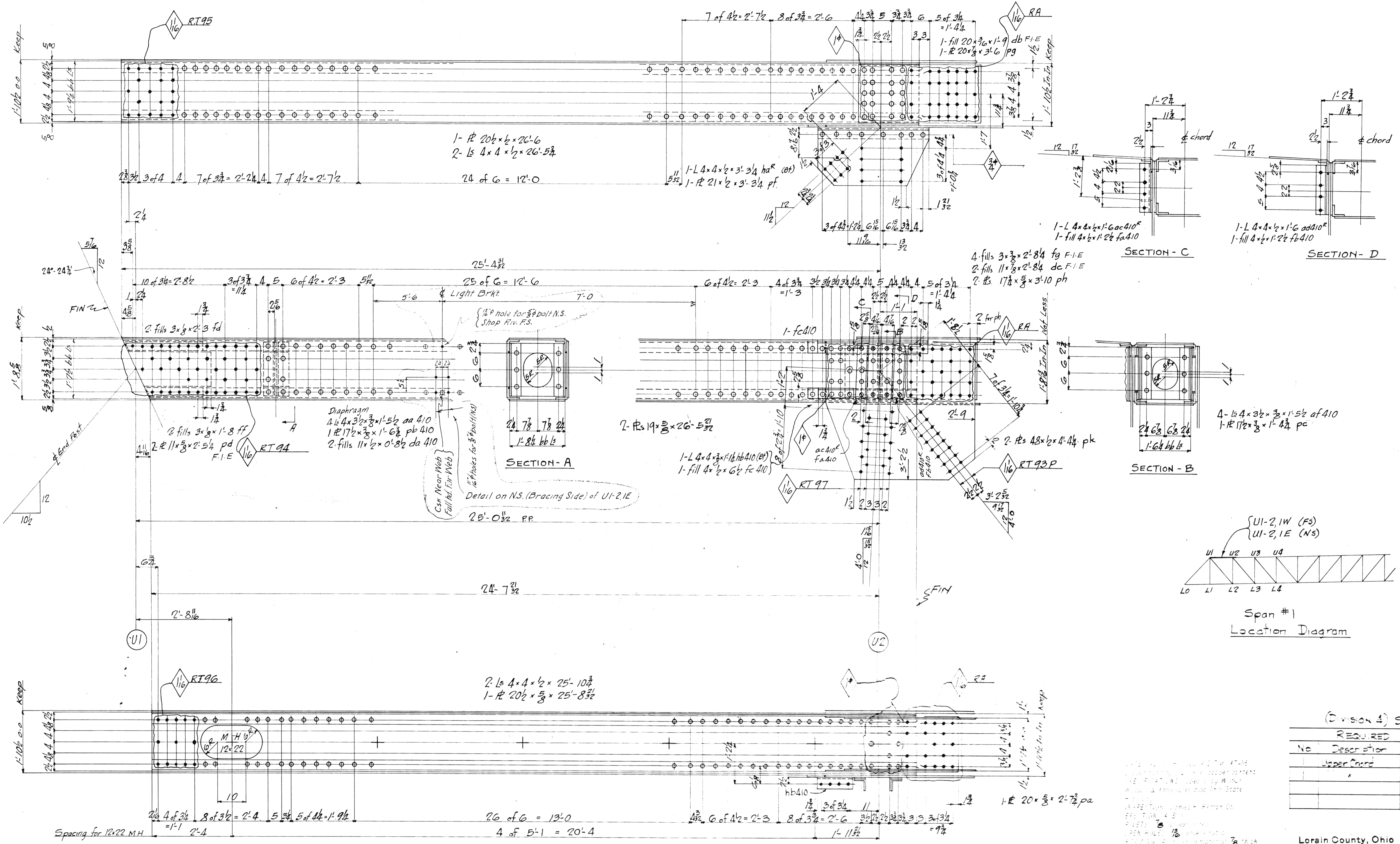
AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT Ambridge PLANT.
 WORK FABRICATED AT Ambridge PLANT.
 IN CHARGE OF Loughman D.R. #2
 DRAW. MADE BY RW DATE 8-3-39
 DRAW. CHECKED BY RG DATE 8-9-39

Lorain County, Ohio
 EAST 21st STREET BRIDGE
 Lorain, Ohio

PAINT: Yes.
 CONTACT SURFACES: No. (Shop & Field)

ORDER No. H2524 SHEET No. 1405

BOLTS		RIVETS		BOLTS		RIVETS		BOLTS		RIVETS	
Head	Nut	Head	Nut	Head	Nut	Head	Nut	Head	Nut	Head	Nut
1/2"	3/4"	3/4"	3/4"	1/2"	3/4"	3/4"	3/4"	1/2"	3/4"	3/4"	3/4"
1/2"	3/4"	3/4"	3/4"	1/2"	3/4"	3/4"	3/4"	1/2"	3/4"	3/4"	3/4"
1/2"	3/4"	3/4"	3/4"	1/2"	3/4"	3/4"	3/4"	1/2"	3/4"	3/4"	3/4"



U1-2, 1W
 U1-2, 1E (Left) (Except as shown for Light Bracket Conn.)

(Division 3) Span #1

REQUIRED	NO.	DESCRIPTION	WORK
Upper Chord	U1-2, 1W		
	U1-2, 1E		

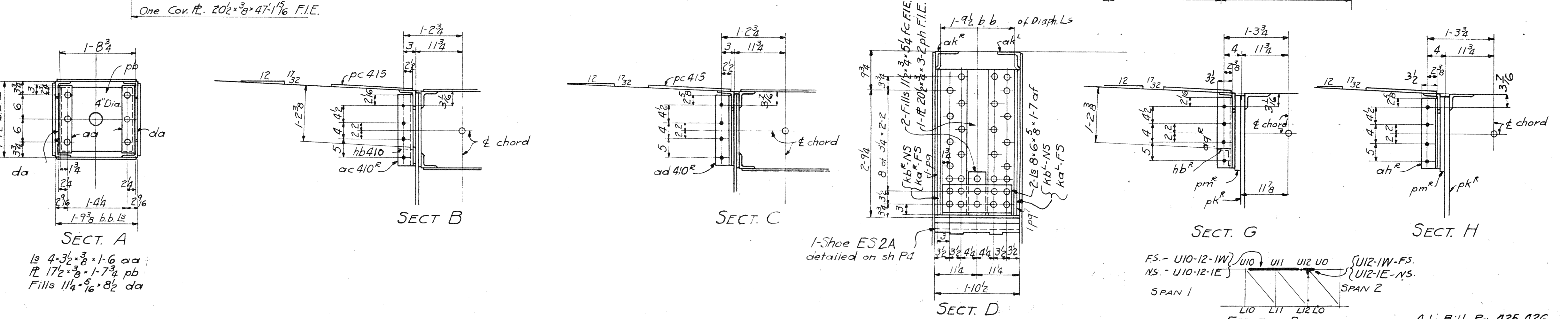
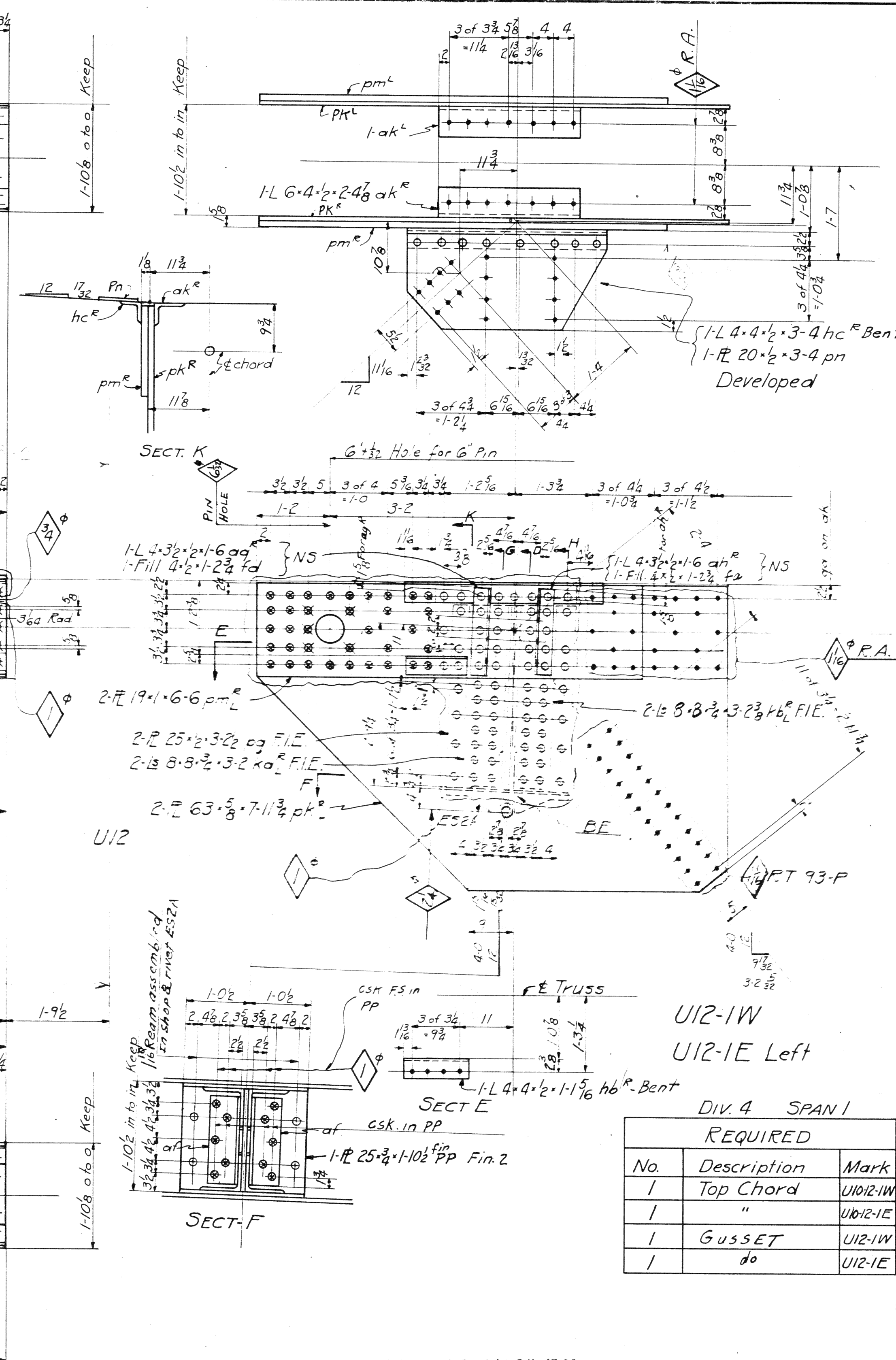
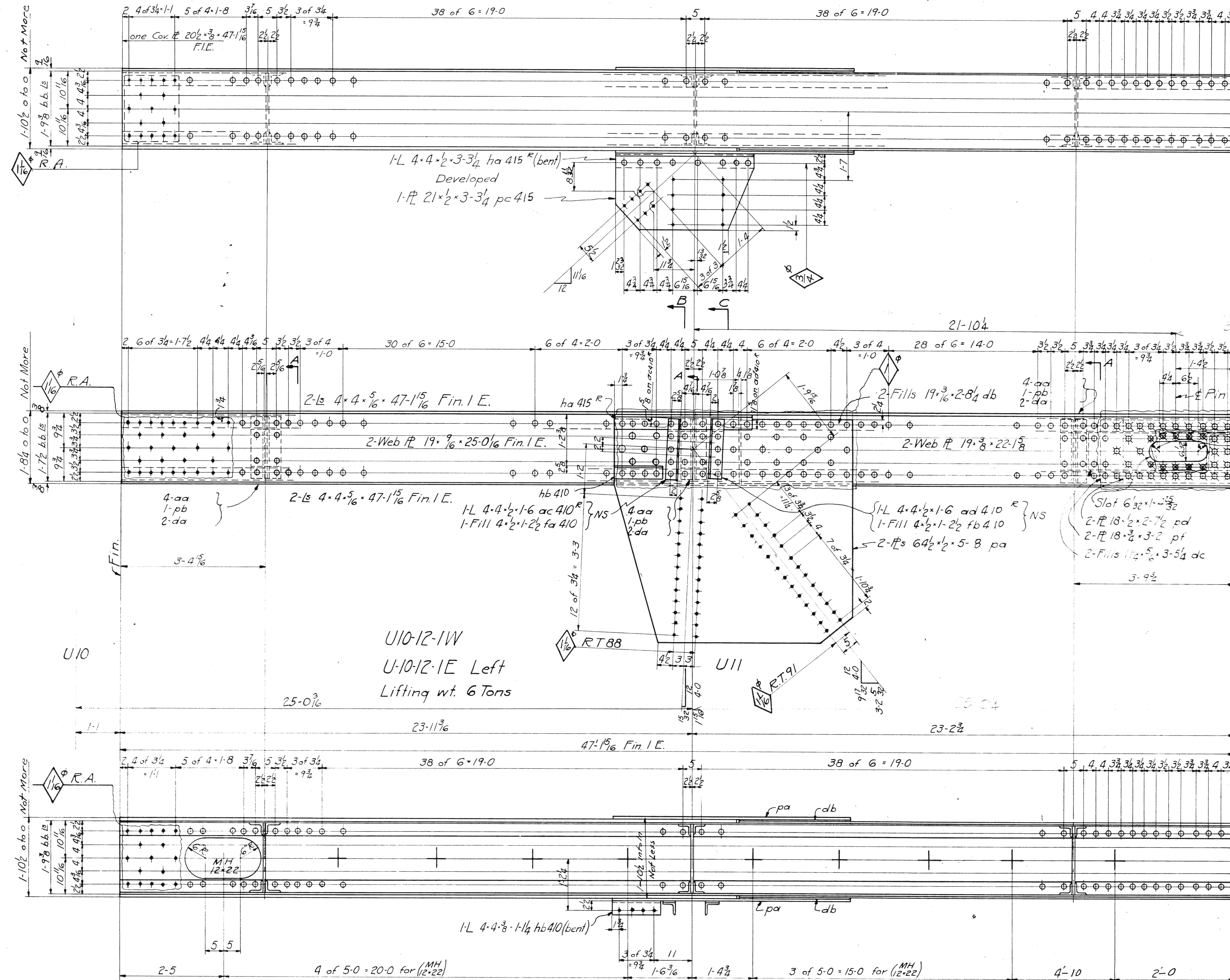
Lorain County, Ohio
 EAST 21st STREET BRIDGE
 Lorain, Ohio

AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT Ambridge PLANT.
 WORK FABRICATED AT Ambridge PLANT.
 IN CHARGE OF Loughman - D.R.#2
 DRAW. MADE BY JEM DATE 8-4-39
 DRAW. CHECKED BY ALC DATE 8-9-39

PAINT: Yes
 CONTACT SURFACES: No. Shop & Field

ORDER NO. H7524
 SHEET NO. 410

BOLTS		RIVETS	
1/2"	3/4"	3/4"	1/2"
3/8"	1/2"	1/2"	3/8"
1/4"	3/8"	3/8"	1/4"
5/16"	7/16"	7/16"	5/16"
3/16"	1/4"	1/4"	3/16"
1/8"	3/16"	3/16"	1/8"
1/16"	1/8"	1/8"	1/16"
3/32"	1/16"	1/16"	3/32"
1/32"	3/64"	3/64"	1/32"
1/64"	1/64"	1/64"	1/64"



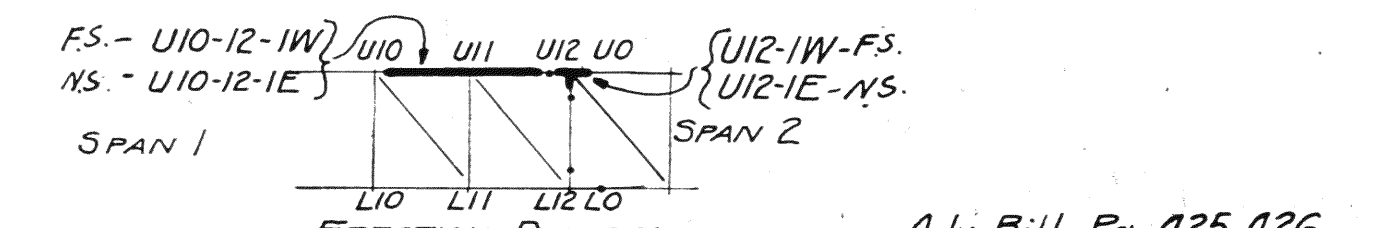
DATE: 8/1/39
 SPECIFICATIONS: Special by Wilbur
 Smith & Associates also Ohio State
 Highway
 INSPECTOR: James H. Merron Co.
 ERL TRUSS, I.B. Co.
 RIVETS: 8 galvanized
 OPEN HOLES: 1/8" girth not
 R.A. dia. All holes in material 7/8" thick
 or less shall be 1/8" dia. and rounded
 to size while parts are assembled.
 Holes in material more than 7/8" thick
 shall be 1/4" dia.
 Top and bottom chord diaphragms which
 are in excess of 12' in truss material
 may be punched 1/4" dia.
 Holes without RT stoplatched or sub-
 define 1/8" dia. and rounded to size to a
 max. of 1/8" dia.
 Holes marked R.A. rounded white chords of
 trusses are assembled.

Div. 4 SPAN I
 REQUIRED

No.	Description	Mark
1	Top Chord	U102-1W
1	"	U102-1E
1	Gusset	U12-1W
1	do	U12-1E

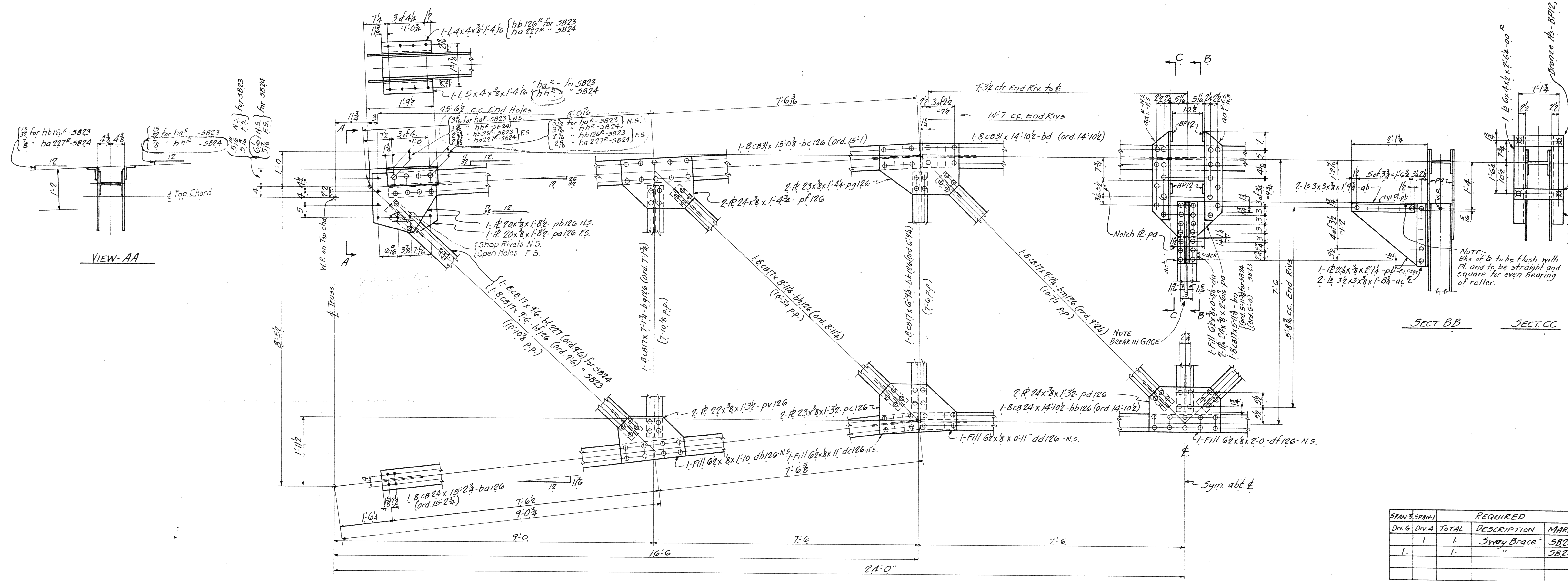
Lorain County, Ohio
 EAST 21st STREET BRIDGE
 Lorain, Ohio

D63-2M-10-38
AMBRIDGE COMPANY.
 DRAWINGS MADE AT Ambridge PLANT.
 WORK FABRICATED AT Ambridge PLANT.
 IN CHARGE OF Loughman DR #2
 DRAW. MADE BY HEL DATE 8/1/39
 DRAW. CHECKED BY ALC. DATE 8-16-39
 ORDER NO. H2524 SHEET NO. 415

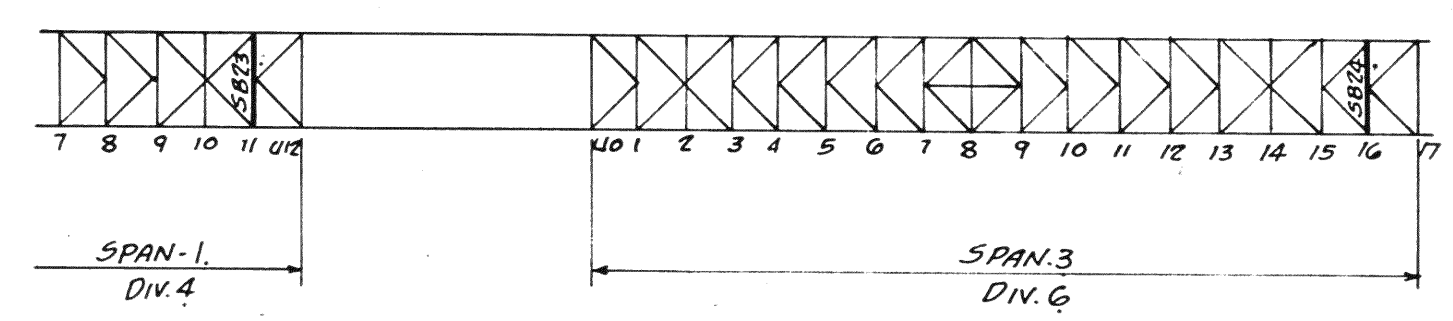


Adv. Bill Pg 425,426

BOLTS		RIVETS		BOLTS		RIVETS		BOLTS		RIVETS		BOLTS		RIVETS	
Head	Head	Head	Head	Head	Head	Head	Head	Head	Head	Head	Head	Head	Head	Head	Head
Shaft	Shaft	Shaft	Shaft	Shaft	Shaft	Shaft	Shaft	Shaft	Shaft	Shaft	Shaft	Shaft	Shaft	Shaft	Shaft
Grp	Grp	Grp	Grp	Grp	Grp	Grp	Grp	Grp	Grp	Grp	Grp	Grp	Grp	Grp	Grp
Dim.	Dim.	Dim.	Dim.	Dim.	Dim.	Dim.	Dim.	Dim.	Dim.	Dim.	Dim.	Dim.	Dim.	Dim.	Dim.
Mark	Mark	Mark	Mark	Mark	Mark	Mark	Mark	Mark	Mark	Mark	Mark	Mark	Mark	Mark	Mark



SWAY BRACE - SB23
 " " - SB24, same as SB23 except for L ha 227, h h, & diag. bt 227.



SPAN		DIV.		TOTAL		REQUIRED	
NO.	MARK	NO.	MARK	NO.	MARK	DESCRIPTION	MARK
1	SB23	1	SB23	1	SB23	Sway Brace	SB23
1	SB24	1	SB24	1	SB24	"	SB24

MATERIAL: 0. H. Steel A.S.T. V. 47-36
 Copper bearing 0.20 min. copper content
 SPECIFICATIONS: Special by Wilbur
 Watson & Associates also Ohio State
 Highway
 INSPECTION: James H. Herron Co.
 ERECTION: A. B. Co.
 RIVETS: 3/8" unless noted
 OPEN HOLES: 1/8" unless noted
 REAMING: All holes punched full size
 except in material more than 7/8" thick
 shall be drilled.

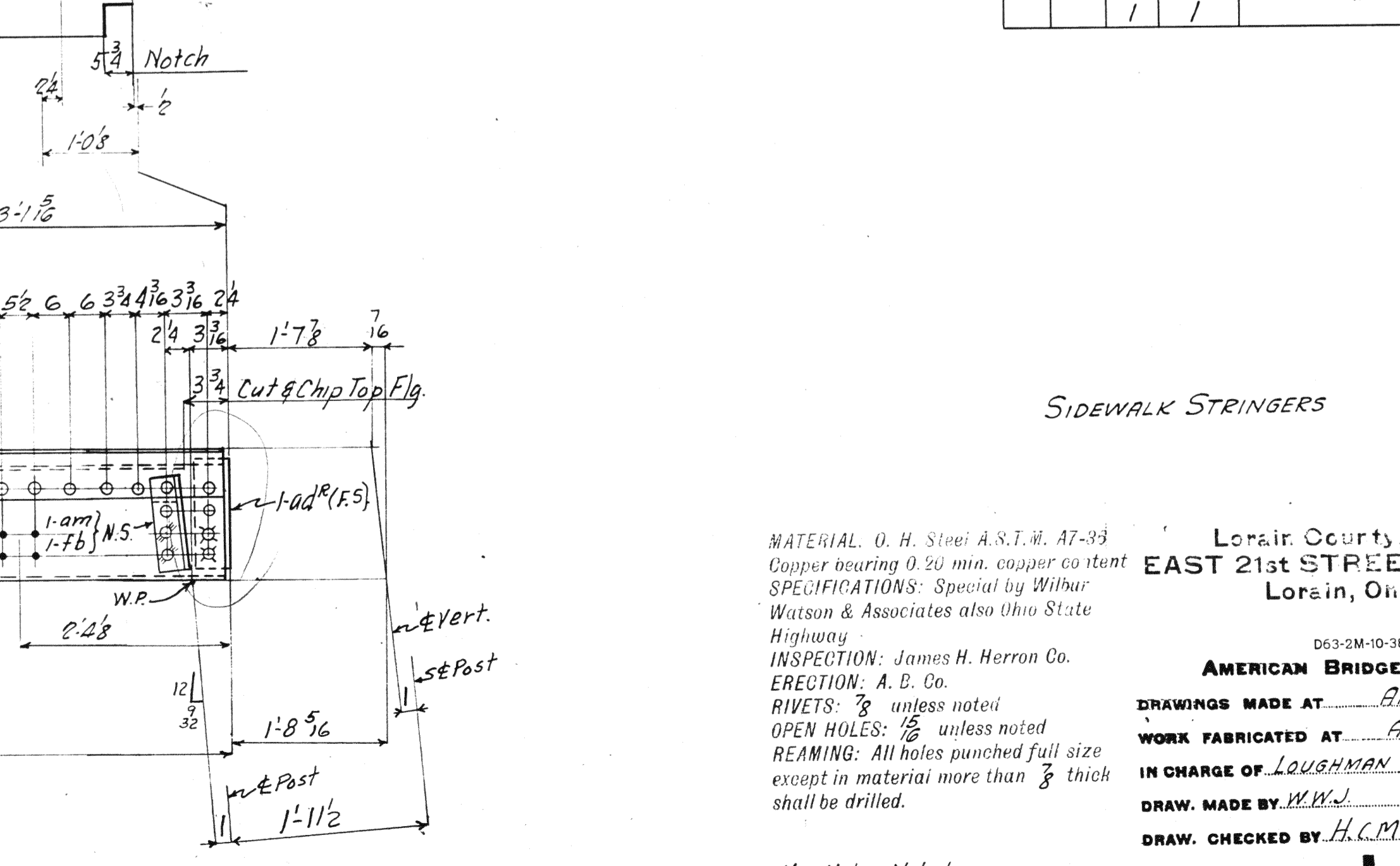
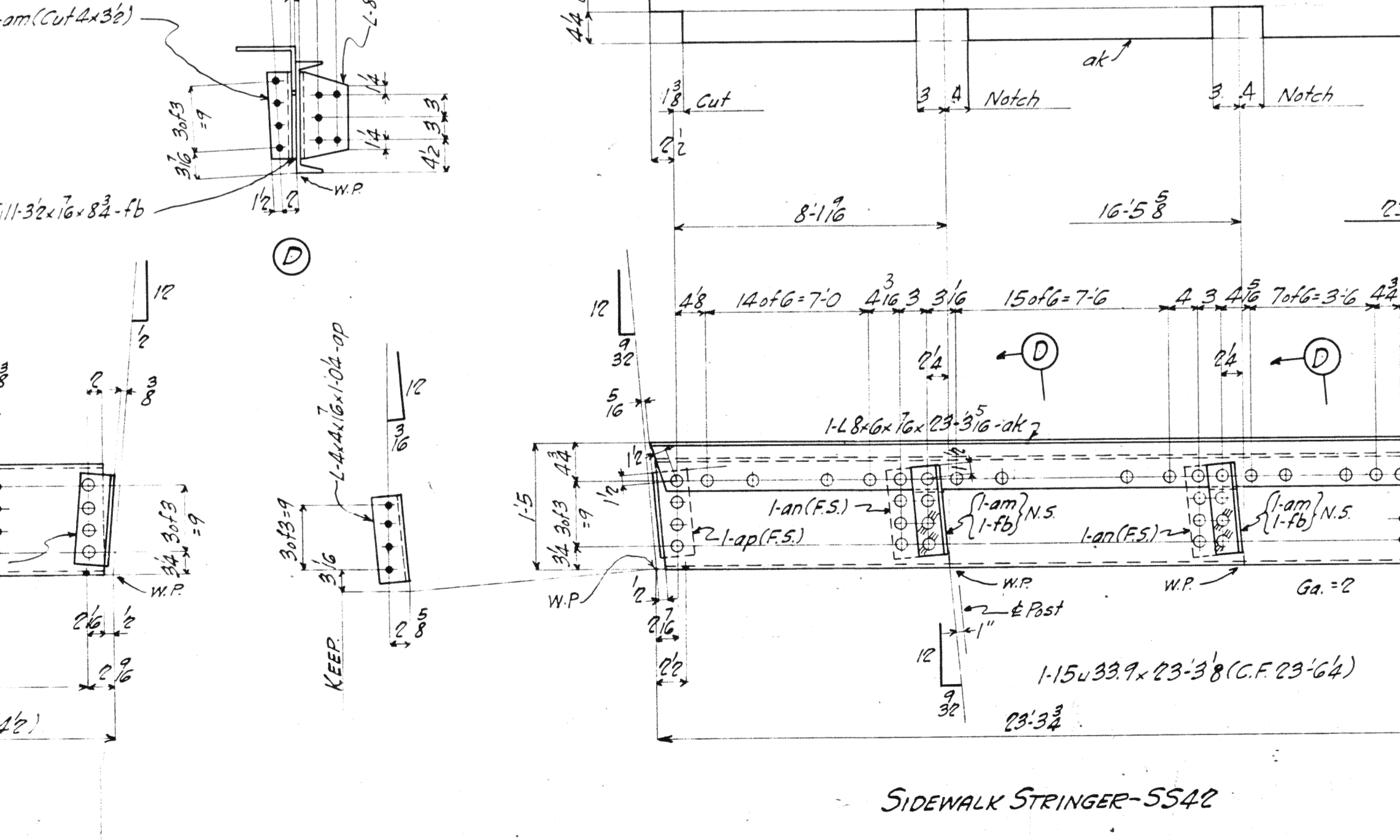
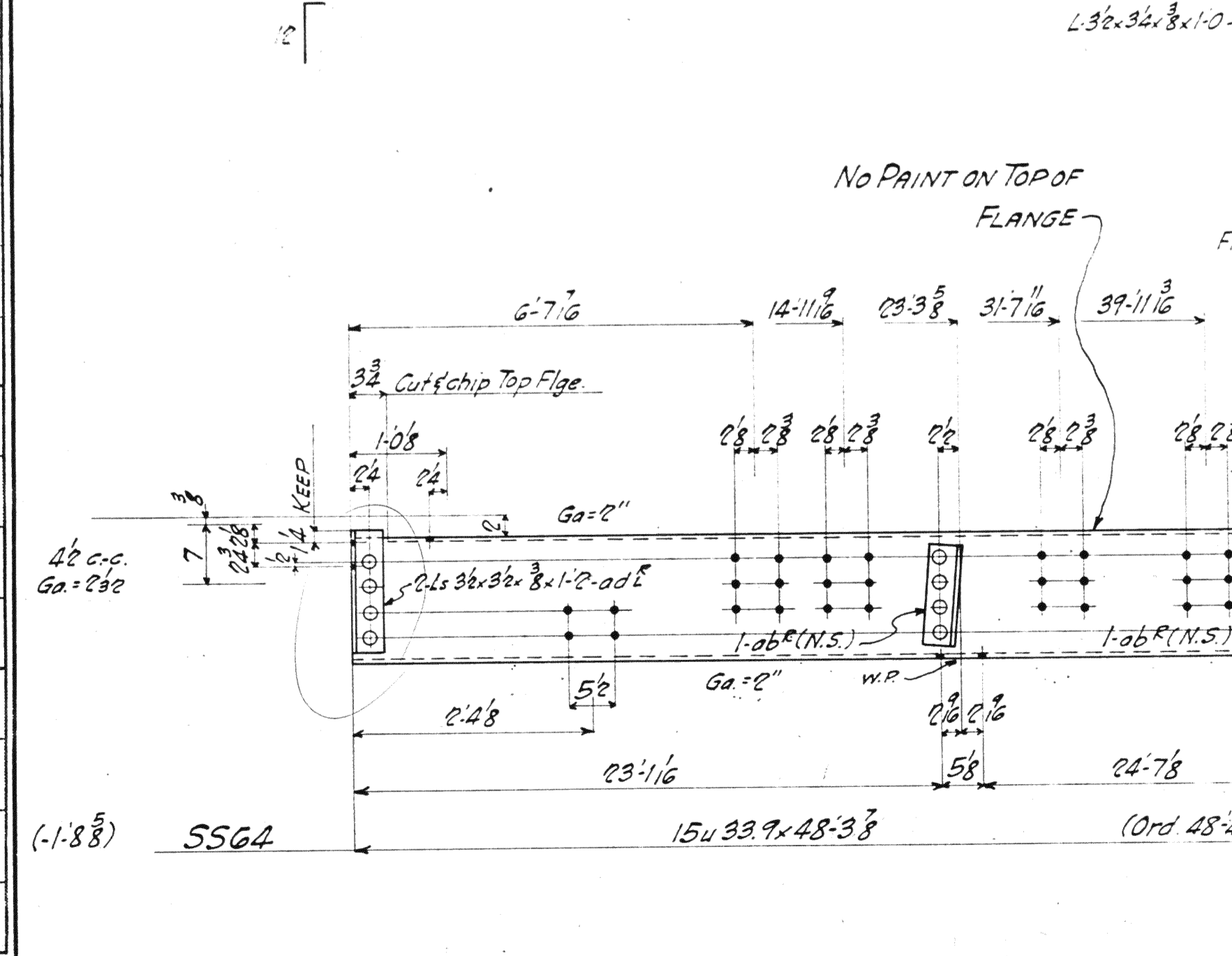
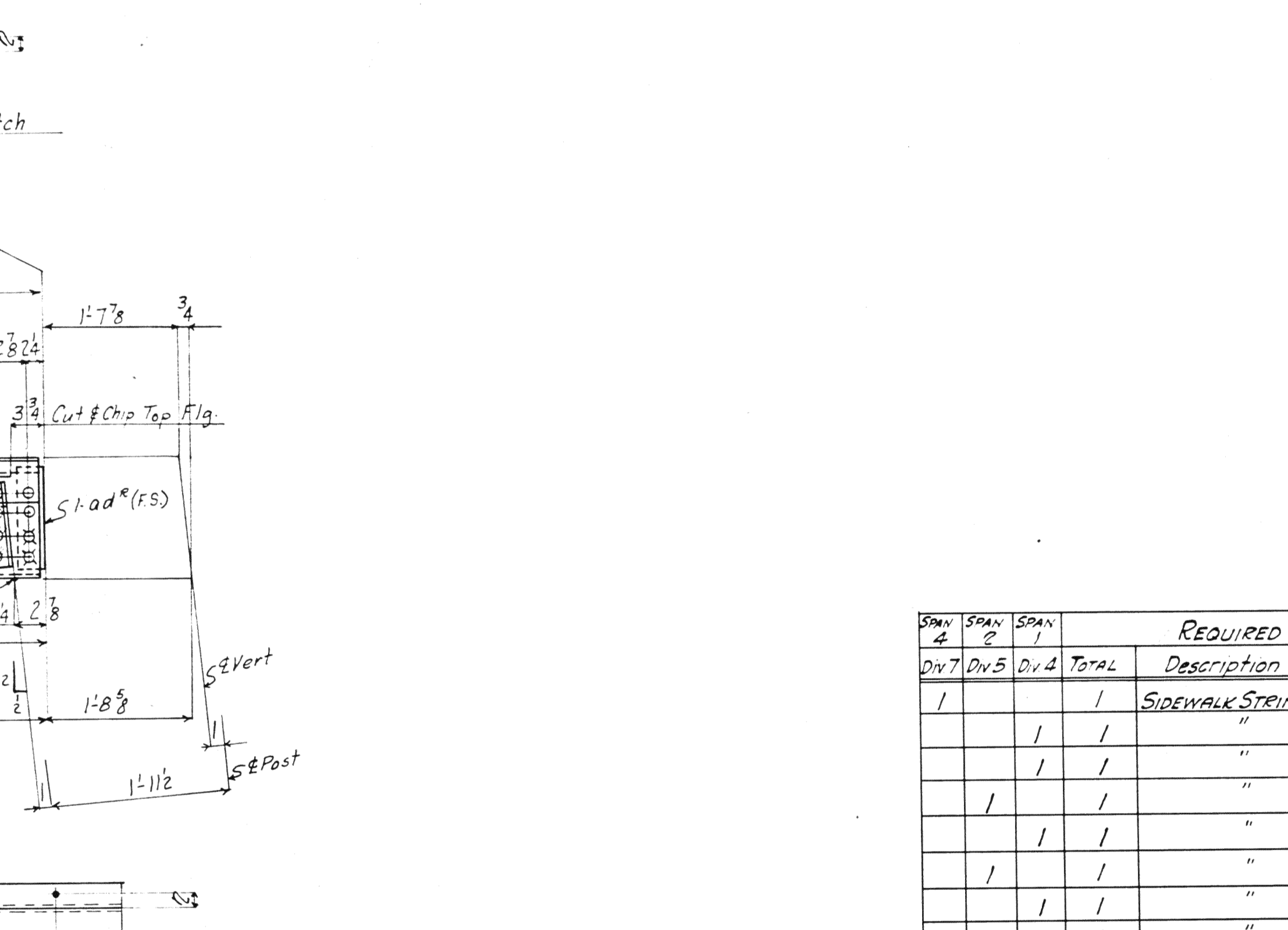
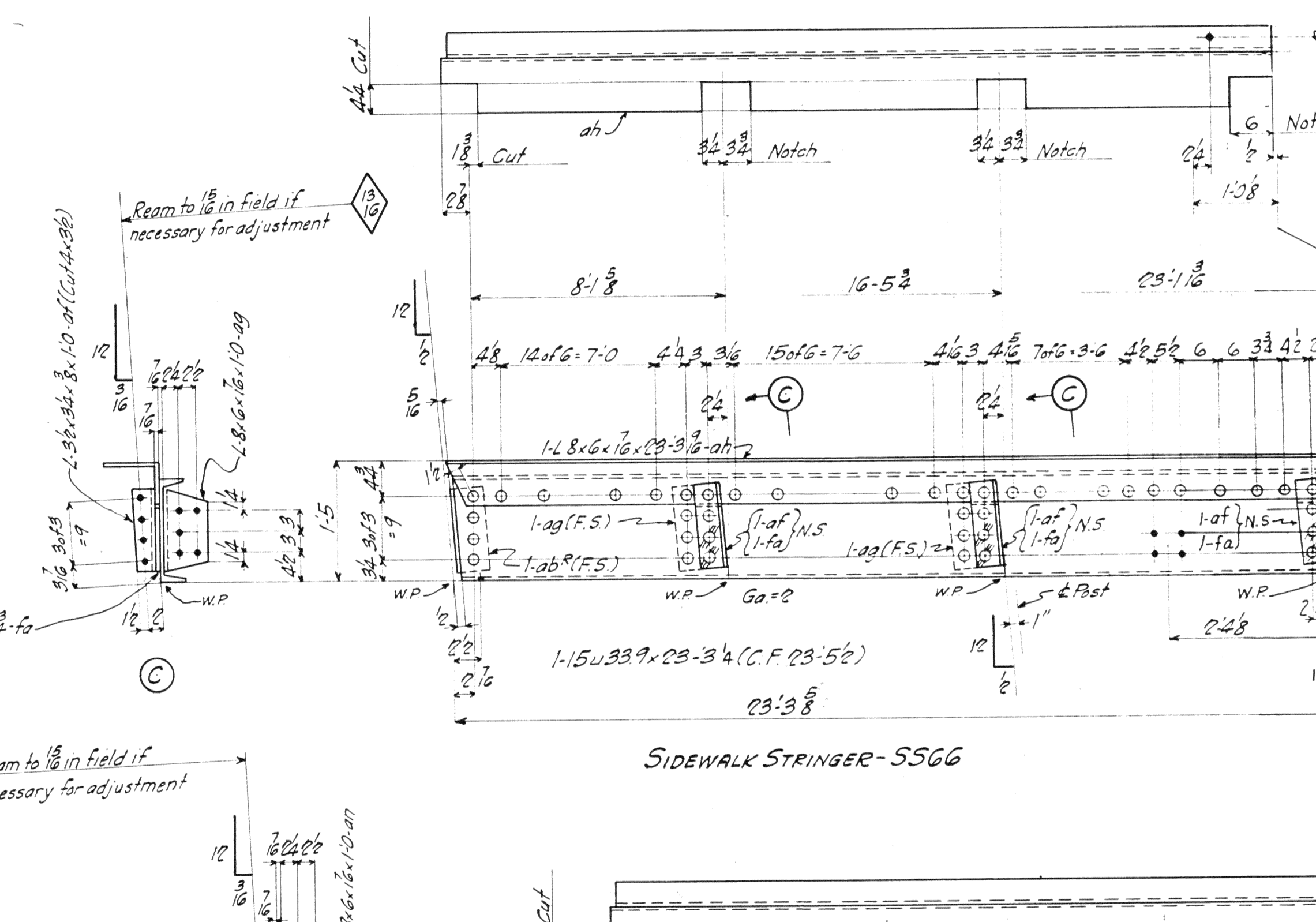
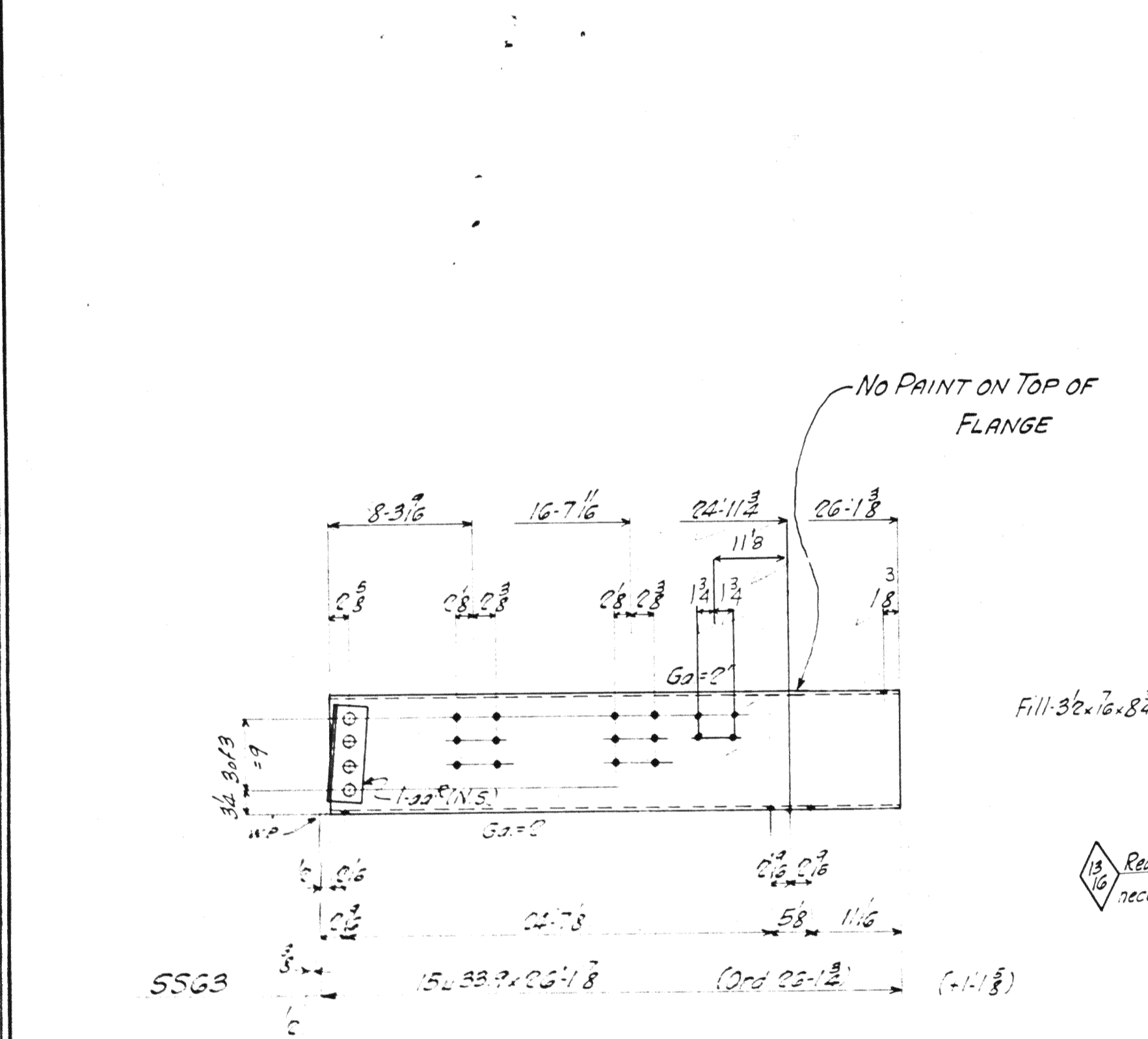
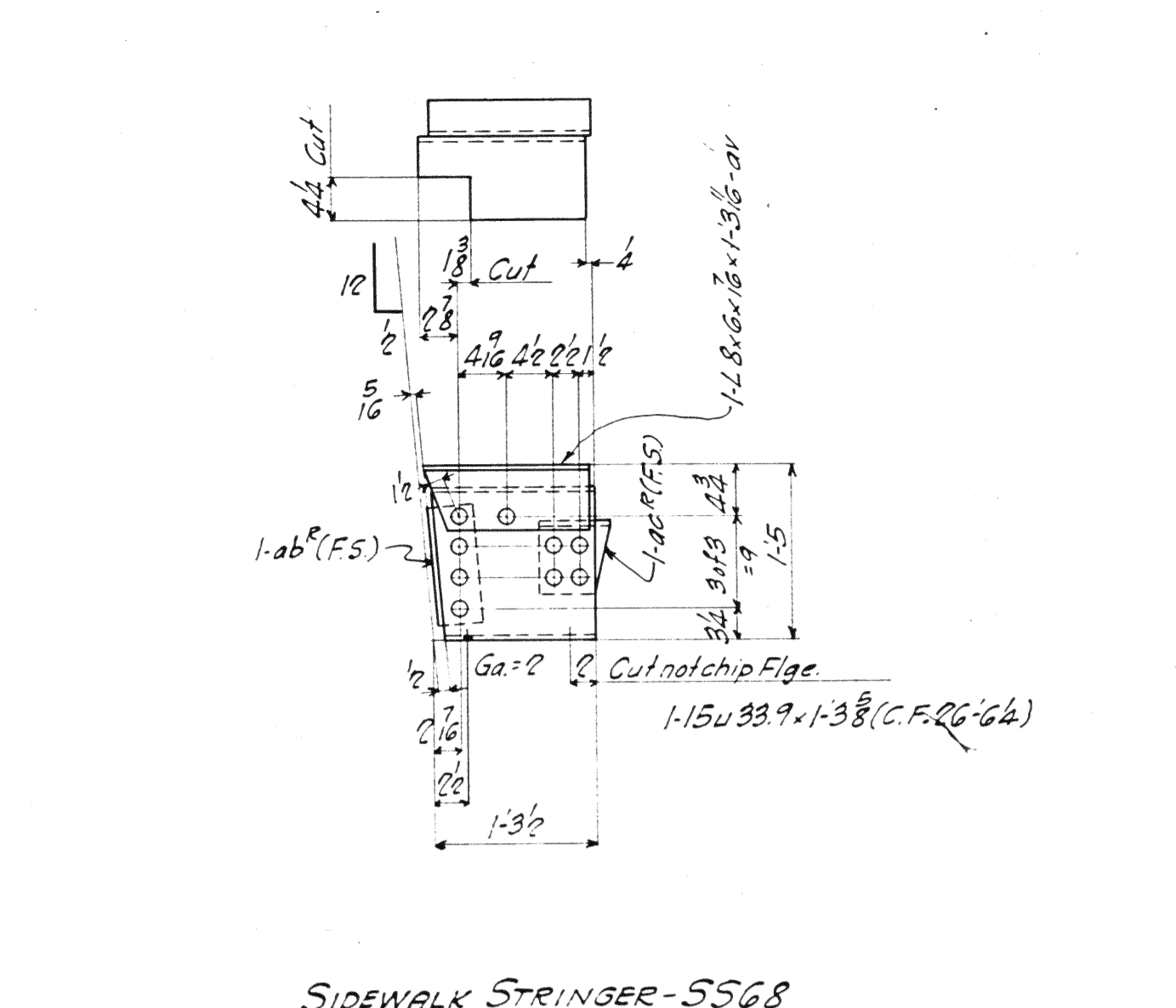
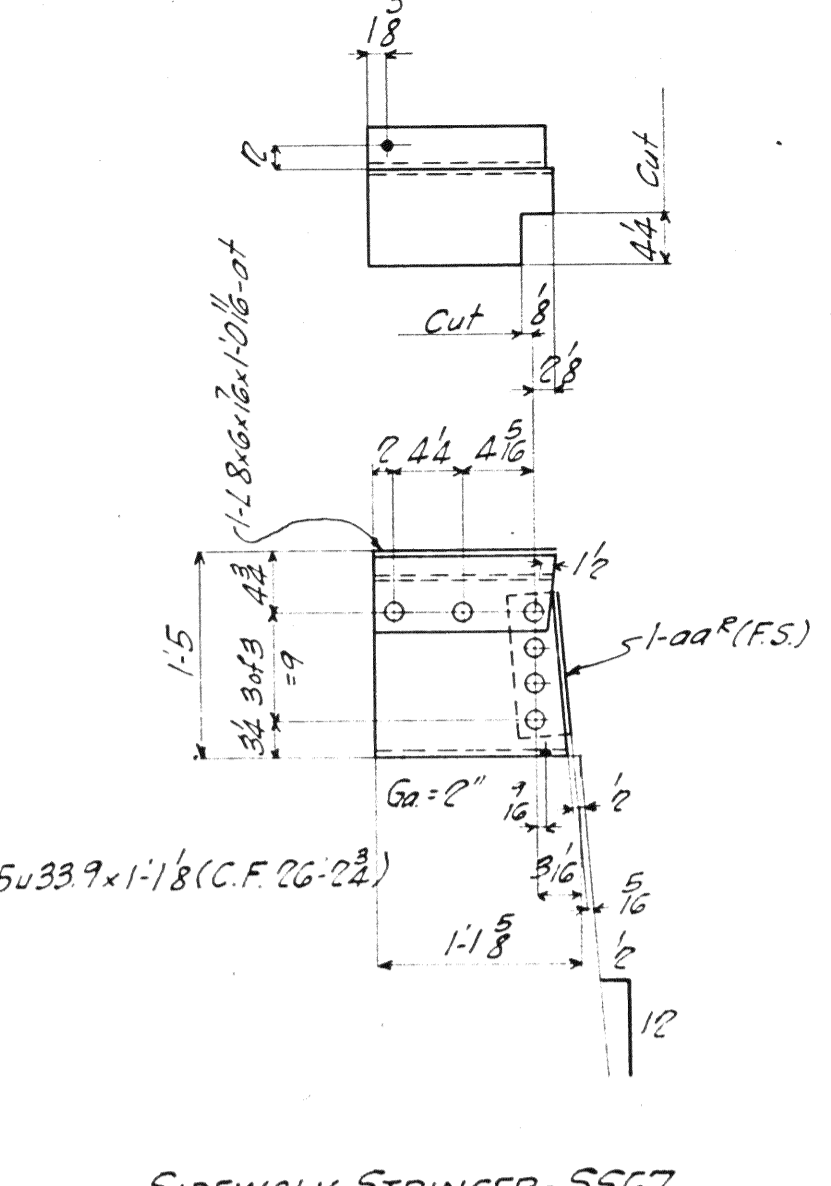
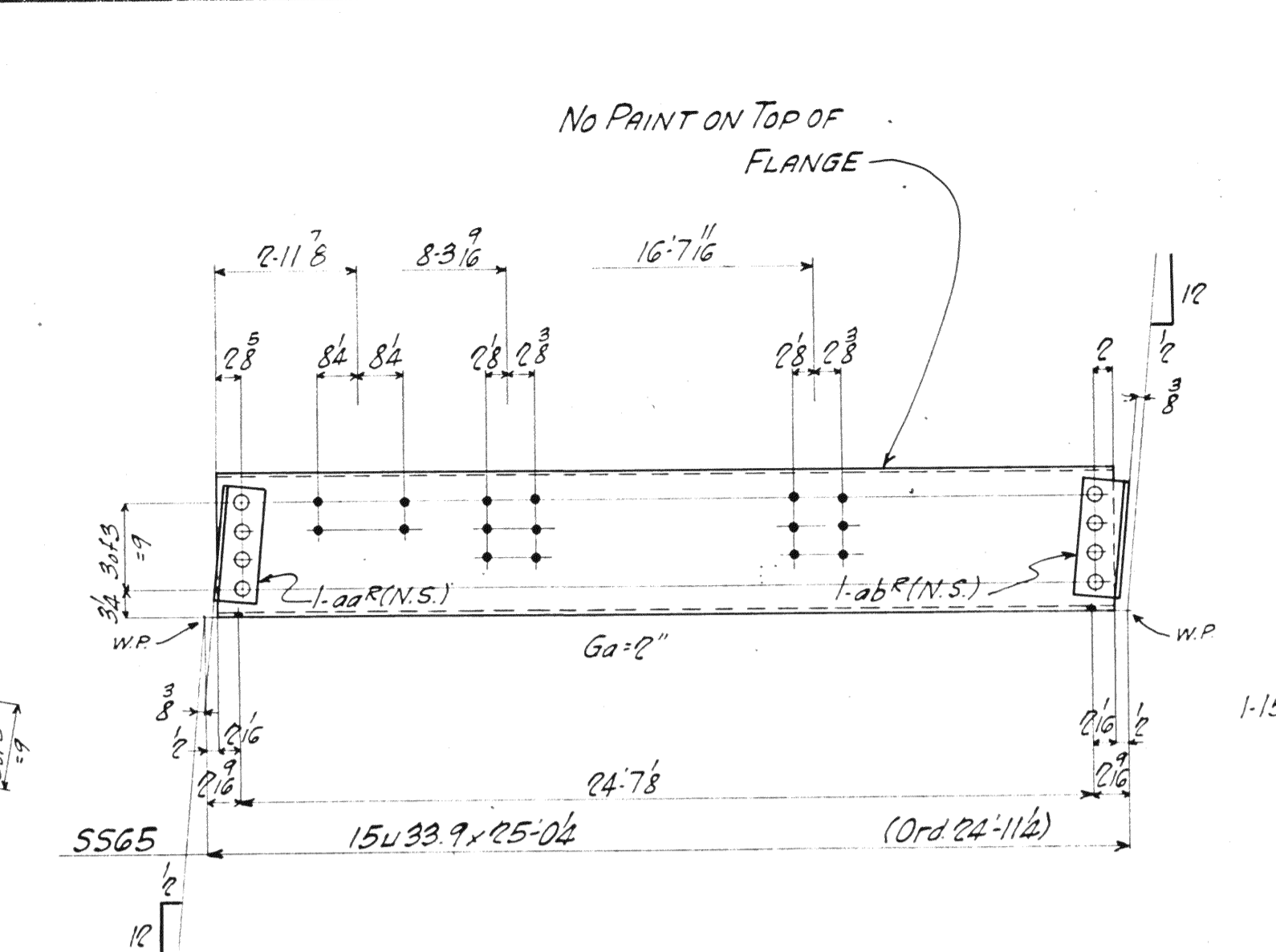
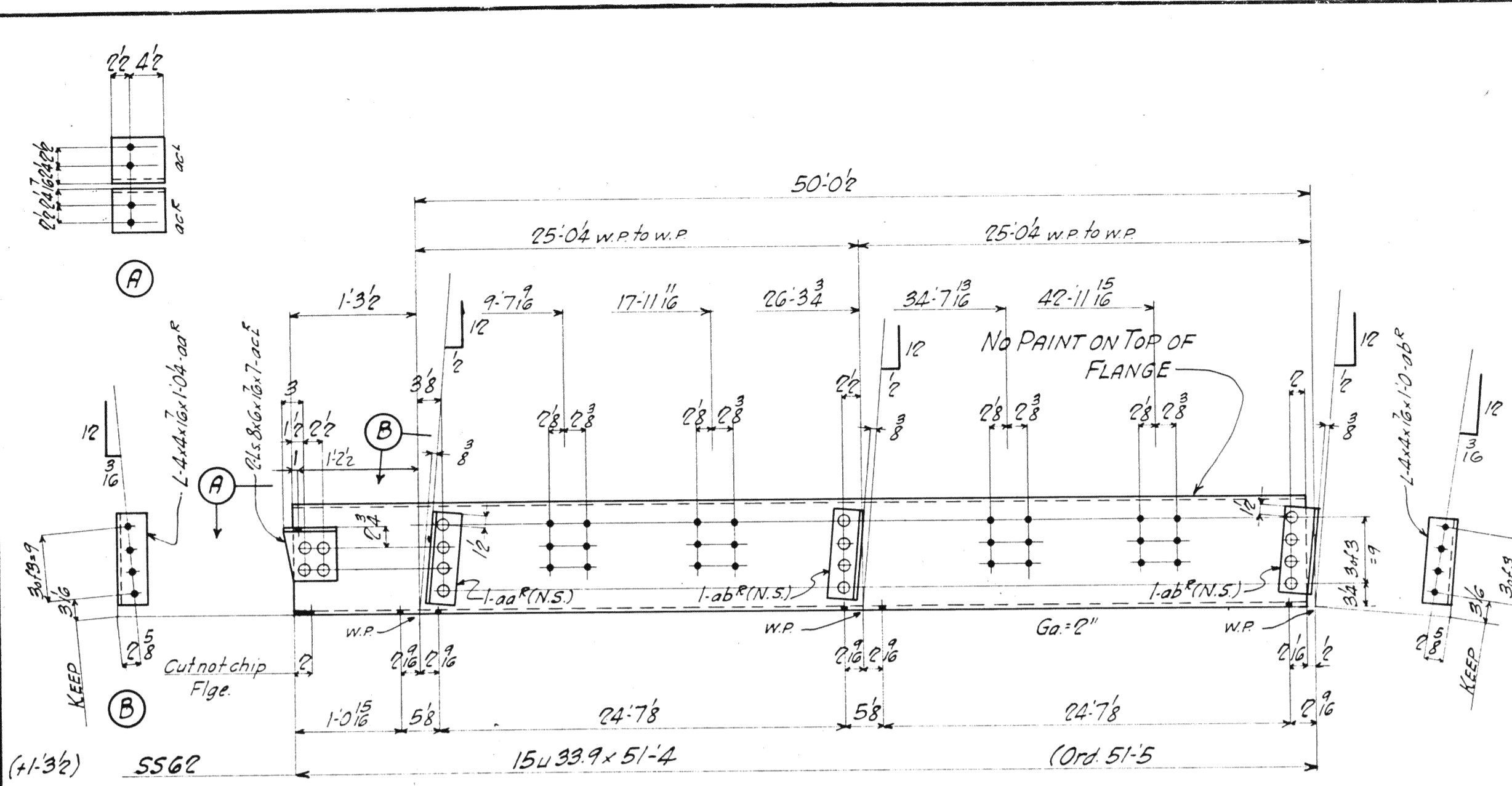
Lorain County, Ohio
EAST 21st STREET BRIDGE
 Lorain, Ohio

AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT Ambridge PLANT.
 WORK FABRICATED AT Ambridge PLANT.
 IN CHARGE OF Loughman D.R.#2
 DRAW. MADE BY ALH DATE 7-27-39
 DRAW. CHECKED BY DDF DATE 7-30-39

PAINT: Yes
 CONTACT SURFACES: No, shop & field

ORDER NO. H2524 SHEET NO. 426

BOLTS		RIVETS		RIVETS		RIVETS		RIVETS		RIVETS	
Qty	Spec	Qty	Spec	Qty	Spec	Qty	Spec	Qty	Spec	Qty	Spec



SPAN #	SPAN 2	SPAN 1	SPAN 1	REQUIRED	
				Description	Mark
1			1	SIDEWALK STRINGER	S542
			1	"	S562
			1	"	S563
			1	"	S564
			1	"	S565
			1	"	S566
			1	"	S567
			1	"	S568

SIDEWALK STRINGERS

MATERIAL: U. S. Steel A. S. T. #. A7-33
 Copper bearing 0.20 min. copper content
 SPECIFICATIONS: Special by Wilbur
 Watson & Associates also Ohio State
 Highway
 INSPECTION: James H. Herron Co.
 ERECTION: A. B. Co.
 RIVETS: 3/8 unless noted
 OPEN HOLES: 1/8 unless noted
 REAMING: All holes punched full size
 except in material more than 3/8 thick
 shall be drilled.

Lorain County, Ohio
 EAST 21st STREET BRIDGE
 Lorain, Ohio

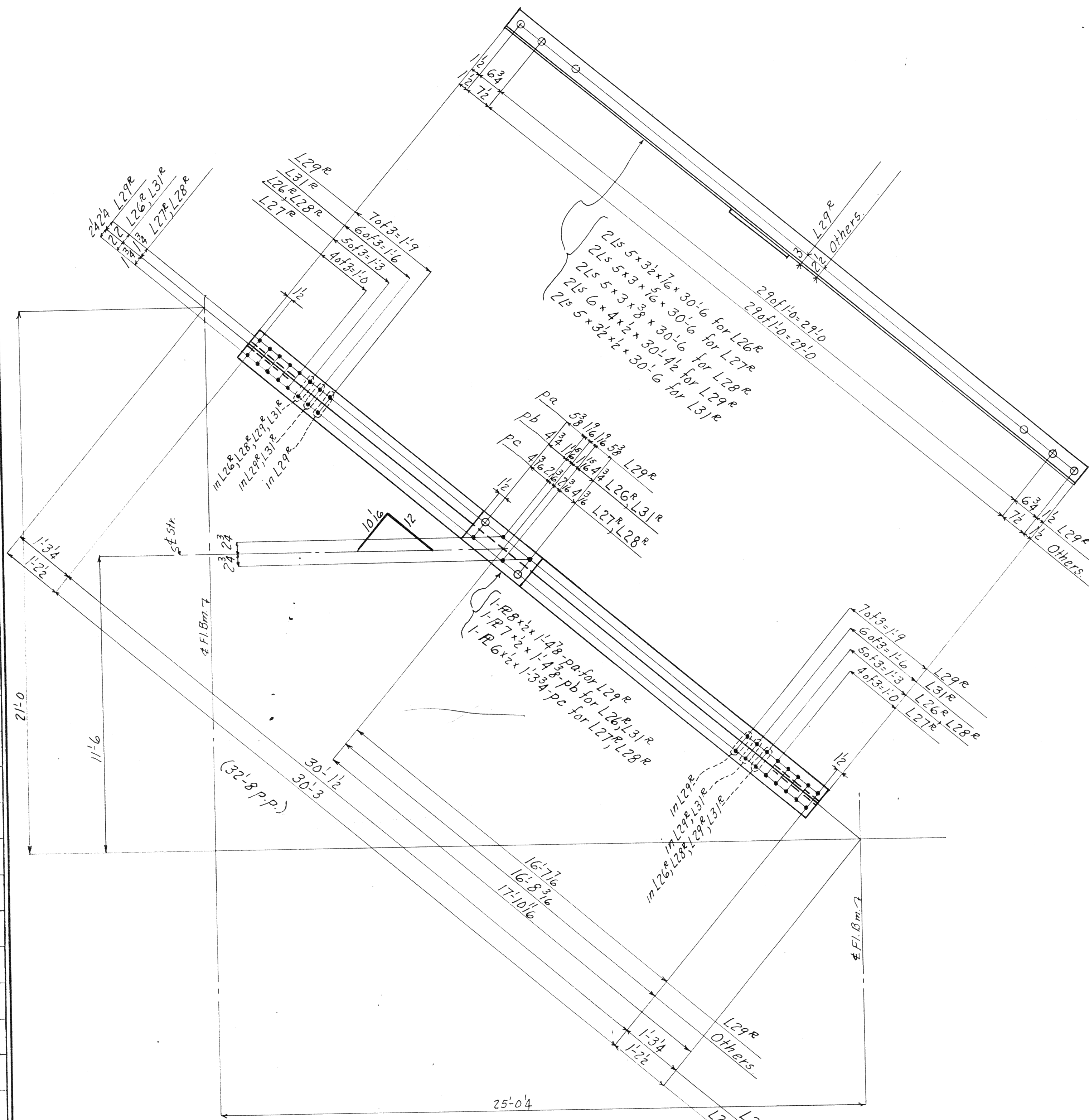
AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT A.M.B. PLANT.
 WORK FABRICATED AT A.M.B. PLANT.
 IN CHARGE OF LOUGHMAN #2
 DRAW. MADE BY W.W.J. DATE 8-11-39
 DRAW. CHECKED BY H.C.M. DATE 8-17-39

PAINT: Yes, Unless Noted.
 CONTACT SURFACES: -No Shop Field

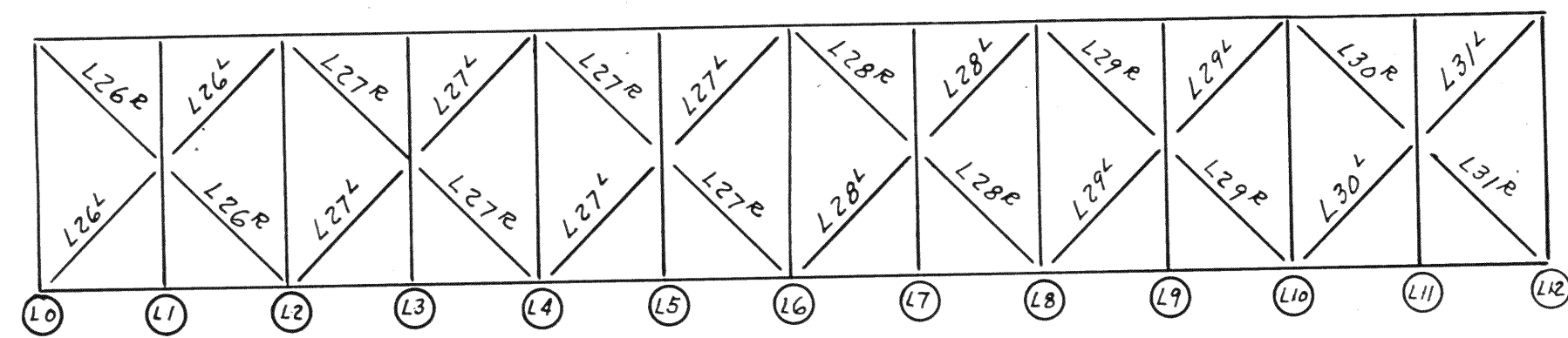
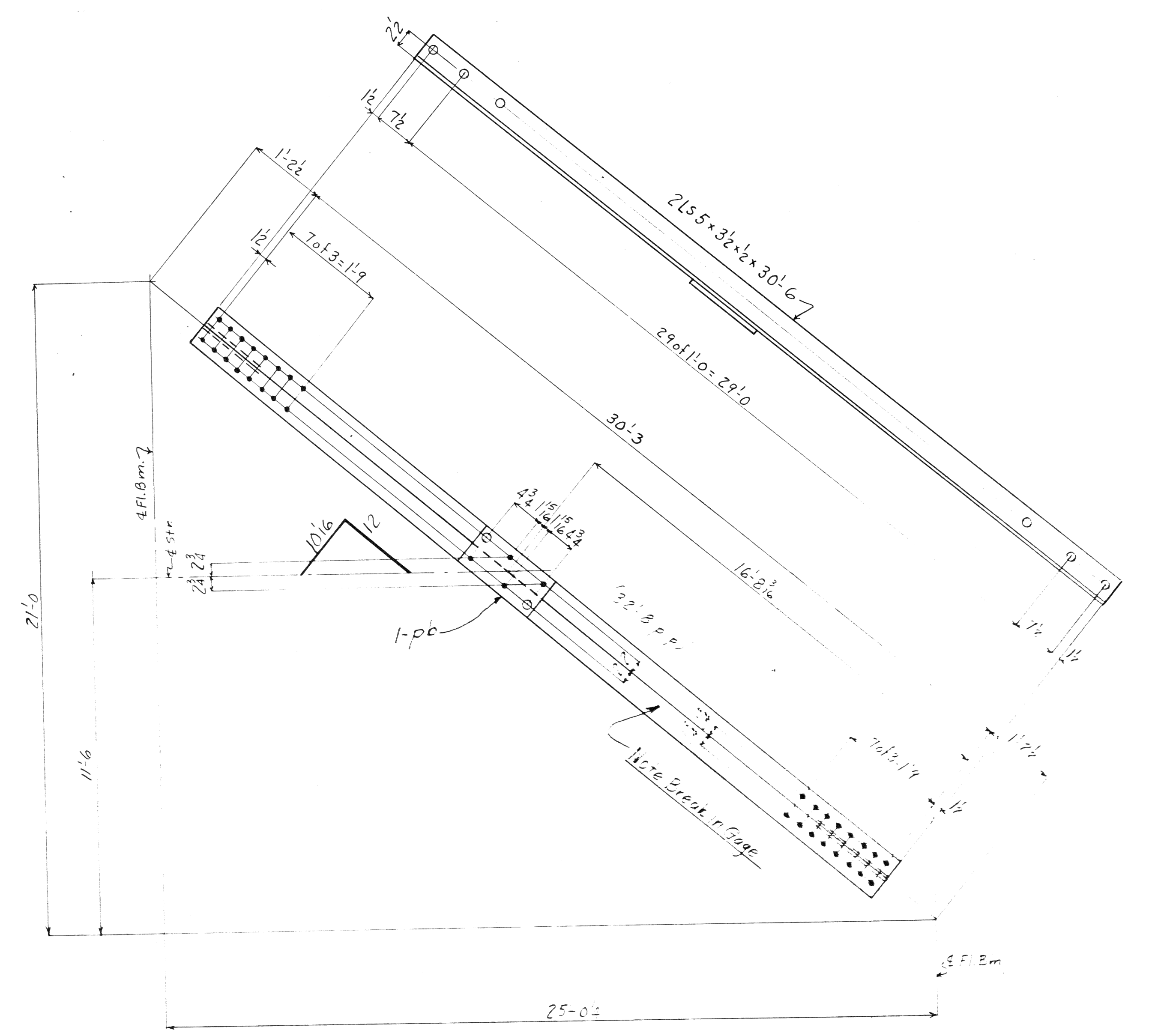
ORDER No. H2504 SHEET No. 428

Adv. Bills Sh # 118,602

BOLTS		RIVETS		BOLTS		RIVETS		BOLTS		RIVETS		BOLTS		RIVETS		BOLTS		RIVETS	
Head	Nut	Head	Grip	Head	Nut	Head	Grip	Head	Nut	Head	Grip	Head	Nut	Head	Grip	Head	Nut	Head	Grip
Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.



- L26^R
- L27^R
- L28^R
- L29^R
- L31^R



Span 1-Div 4

No	Description	Mark
2	Bott. Laterals	L26 ^R
2	do	L26 ^L
4	do	L27 ^R
4	do	L27 ^L
2	do	L28 ^R
2	do	L28 ^L
2	do	L29 ^R
2	do	L29 ^L
1	do	L30 ^R
1	do	L30 ^L
1	do	L31 ^R
1	do	L31 ^L

Bottom Laterals.
Span 1.

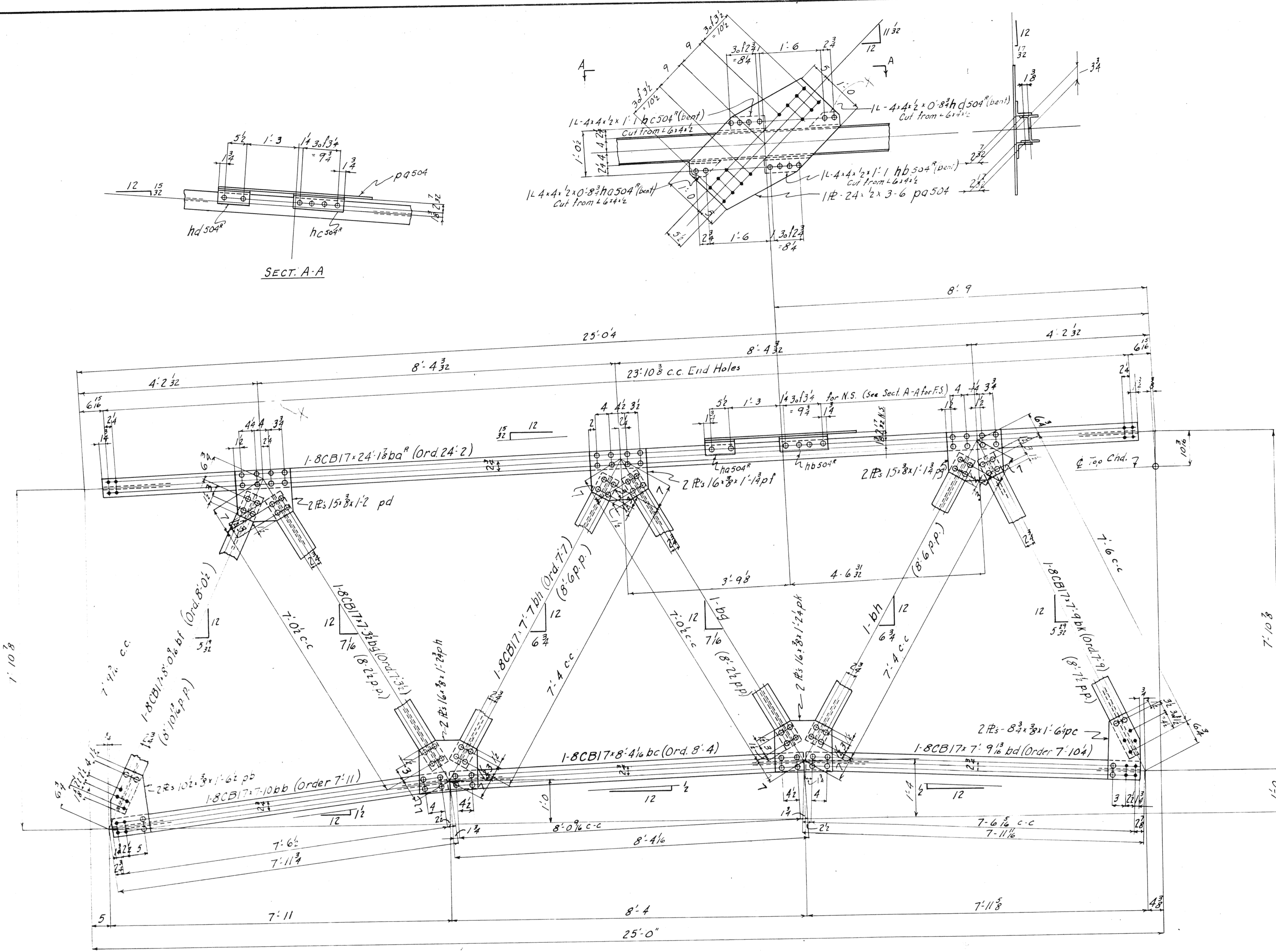
Lorain County, Ohio
EAST 21st STREET BRIDGE
Lorain, Ohio

MATERIAL: O. H. Steel A.S.T.M. A7-36
Copper bearing 0.20 min. copper content
SPECIFICATIONS: Special by Wilbur
Watson & Associates also Ohio State
Highway
INSPECTION: James H. Herron Co.
ERECTOR: A. B. Co.
RIVETS: 1/2
OPEN HOLES: 1/8
REMARKS: All holes punched full size
except in material more than 1/8 thick
shall be drilled.

D63-2M-10-38
AMERICAN BRIDGE COMPANY.
DRAWINGS MADE AT Ambridge PLANT.
WORK FABRICATED AT Ambridge PLANT.
IN CHARGE OF Loughman D.R.#2
DRAW. MADE BY H.R.F. DATE 8-9-39
DRAW. CHECKED BY E.R.M. DATE 8-11-39

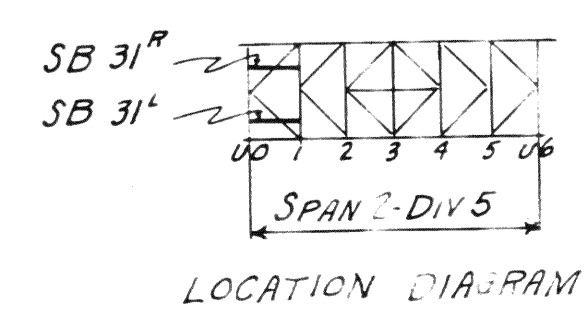
PAINT: Yes
CONTACT SURFACES: No (Shop & field.)
ORDER No. H2524 SHEET No. 429

BOLTS		RIVETS		BOLTS		RIVETS		BOLTS		RIVETS		BOLTS		RIVETS	
Qty	Spec	Qty	Spec	Qty	Spec	Qty	Spec	Qty	Spec	Qty	Spec	Qty	Spec	Qty	Spec



LONG BRACE SB 31^R
 " " SB 31^L

SPAN 2	REQUIRED		
Div. 5	Total	Description	Mark
1	1	Long. Brace	SB 31 ^R
1	1	" "	SB 31 ^L



MATERIAL: U.S. Steel A 36, A 7-30
 Copper bearing 0.20 min. copper content
 SPECIFICATIONS: Specified by Victor
 Watson & Associates, also Ohio State
 Highway
 INSPECTION: James H. Heron Co.
 ERECTION: A. B. Co.
 RIVETS: 7/8 unless noted
 OPEN HOLES: 1/8 unless noted
 REAMING: All holes punched full size

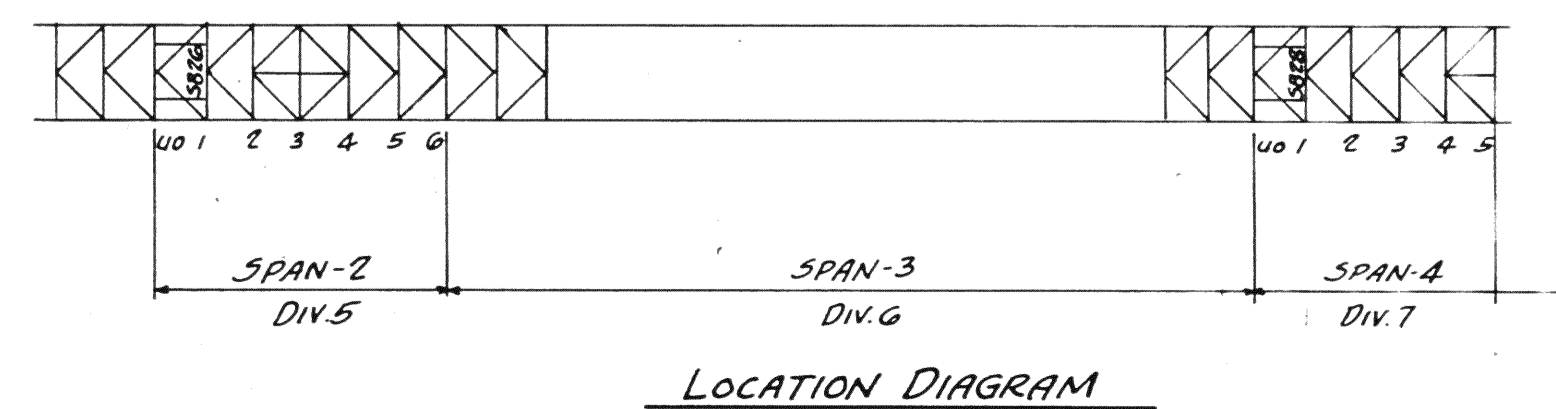
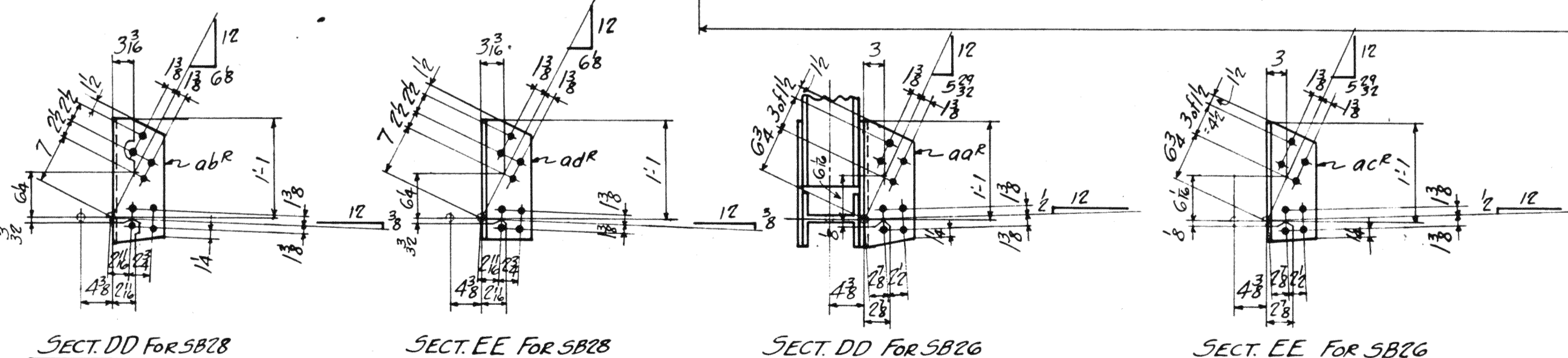
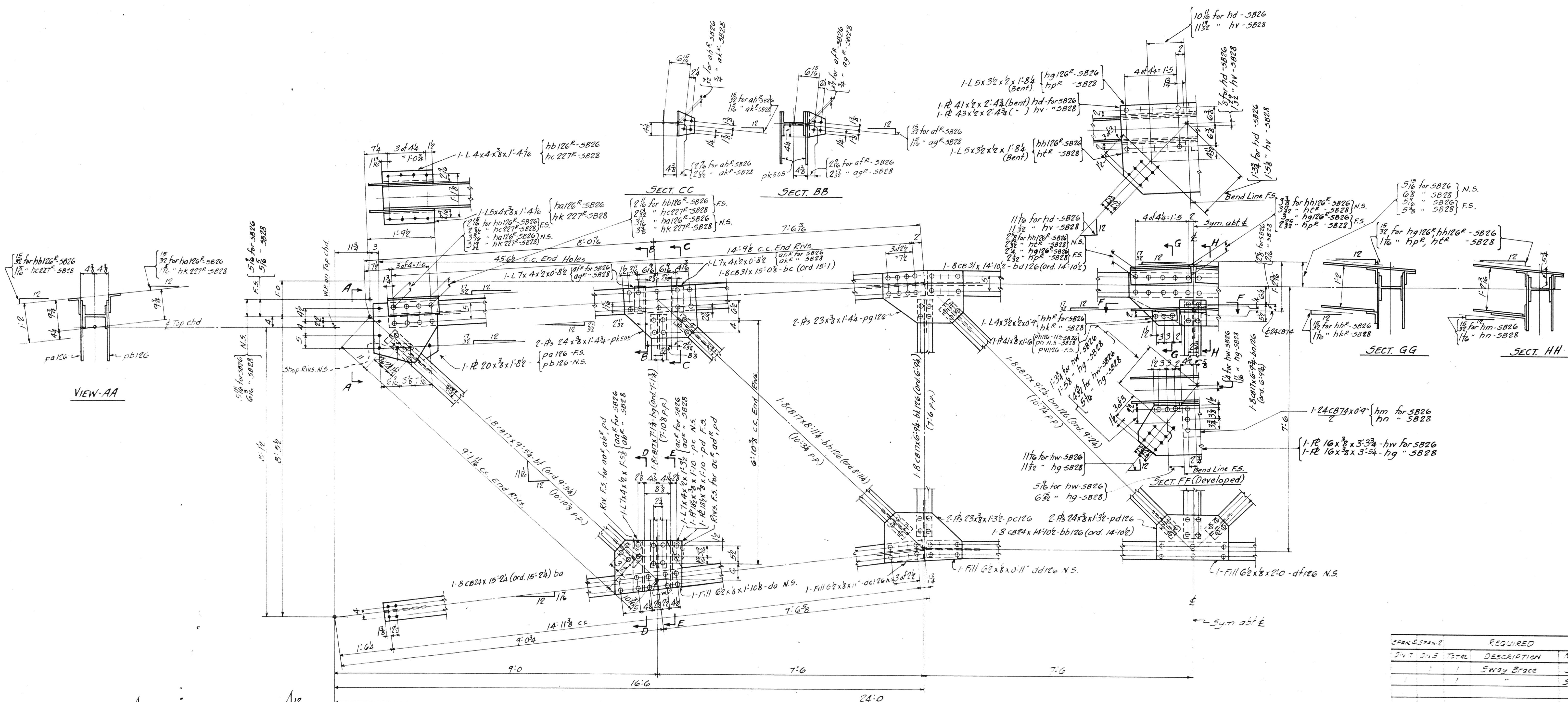
Lorain County, Ohio
EAST 21st STREET BRIDGE
 Lorain, Ohio

D53-2M-10-38
AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT Ambridge PLANT.
 WORK FABRICATED AT Ambridge PLANT.
 IN CHARGE OF Loughman D.R. #2
 DRAW. MADE BY ALH-HBA DATE 8-8-39
 DRAW. CHECKED BY ... DATE 8-11-39

PAINT: Yes
 CONTACT SURFACES: No - (Shop & Field)

ORDER No. **H2524** SHEET NO. **504**

BOLTS	Head	Shank	Grade	Size	Material
RIVETS	Head	Shank	Grade	Size	Material
WELDS	Process	Material	Thickness	Notes	



SPAN	SPAN #	REQUIRED	DESCRIPTION	MARK
2	5	1	Sway Brace	SB26
		1		SB28

MATERIAL: U. S. Steel A. S. T. M. 47-26
 Copper bearing 0.2% min. copper content
 SPECIFICATIONS: Special by Wilbur Watson & Associates also Ohio State Highway
 INSPECTION: James H. Herron Co.
 ERECTION: A. B. Co.
 RIVETS: 3/4" unless noted
 OPEN HOLES: 1/8" unless noted
 REAMING: All holes punched full size

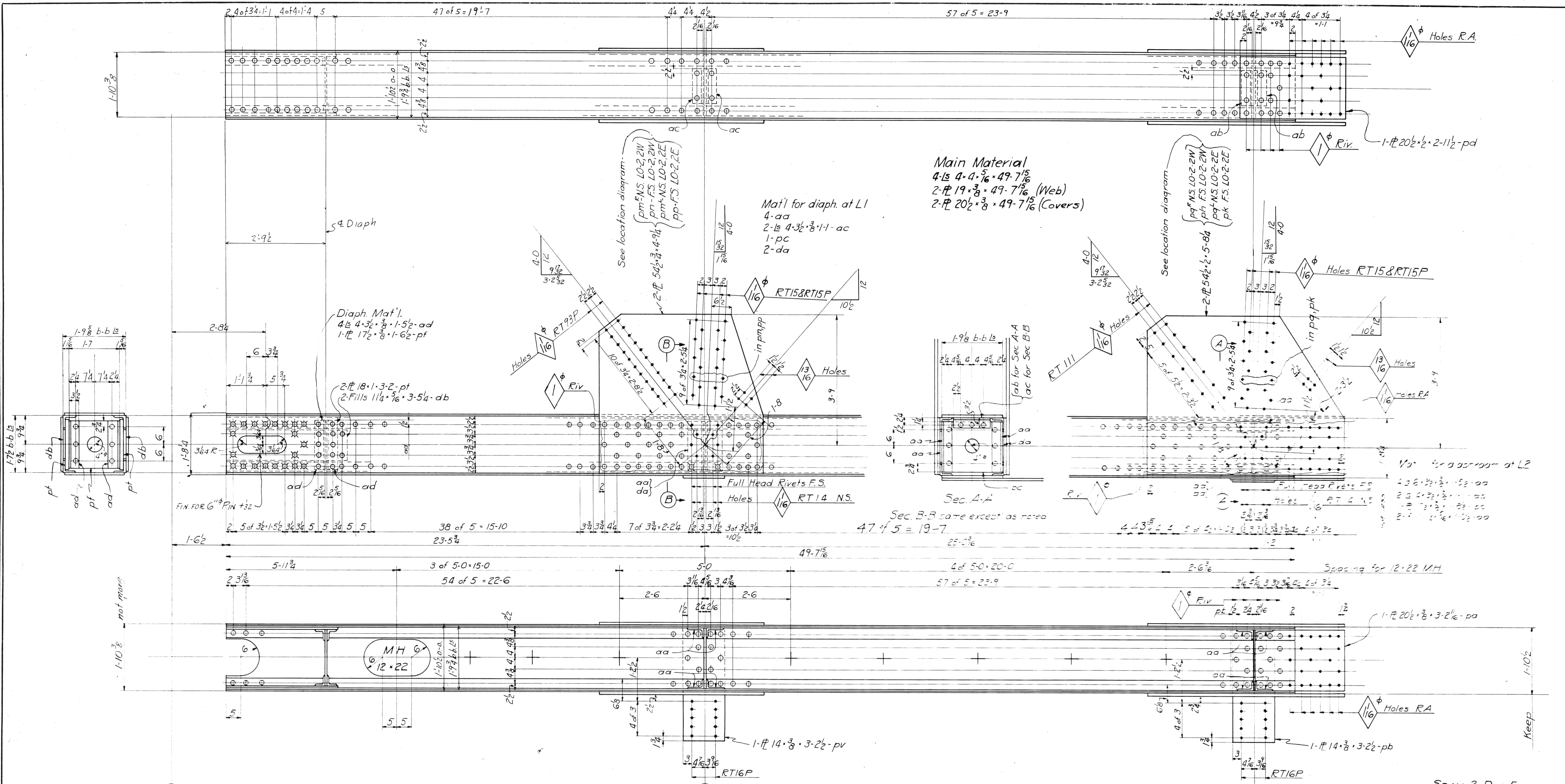
Lorain County, Ohio
EAST 21st STREET BRIDGE
 Lorain, Ohio

DESIGNED BY
AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT Ambridge PLANT.
 WORK FABRICATED AT Ambridge PLANT.
 IN CHARGE OF Loughman DR#2
 DRAW. MADE BY A. L. H. DATE 8-8-39
 DRAW. CHECKED BY J. G. M. DATE 8-1-39

PAINT: Yes
 CONTACT SURFACES: No, Shop & Field

ORDER NO. H252A SHEET NO. 506

PLATE	1/2" x 12" x 12"
BOLTS	1/2" Dia. Hex. Hd. 12.5
RIVETS	3/8" Dia. 12.5
WELDS	1/4" Thick
FINISH	As Shown
SCALE	1/8" = 1'-0"

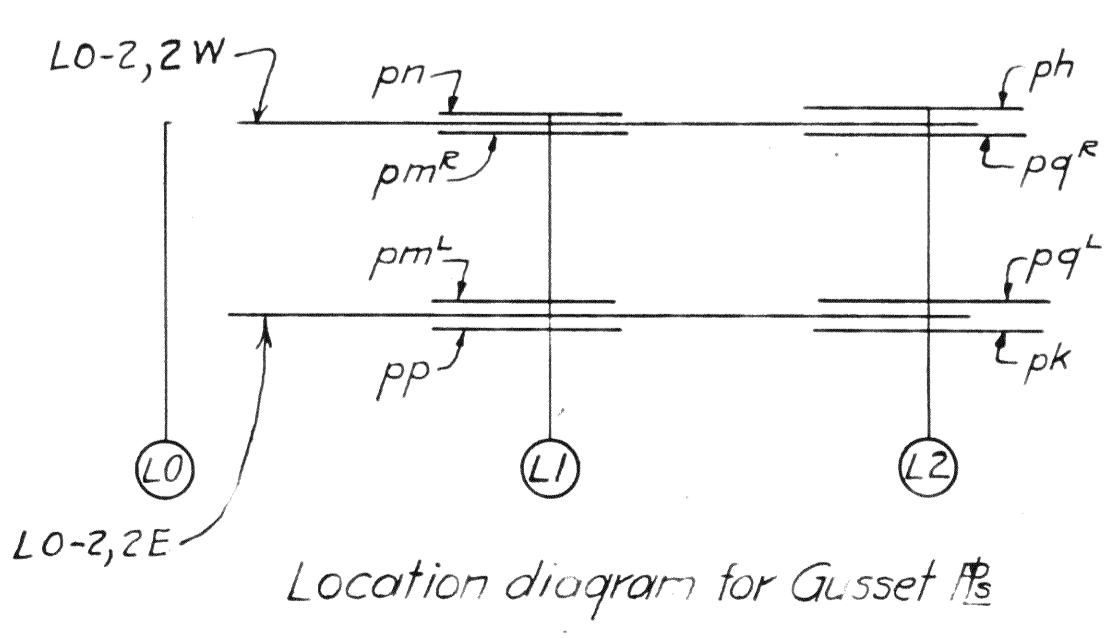


Main Material
 4-15 4-4 5/16 x 49-7 1/8
 2-15 19 x 3/8 x 49-7 1/8 (Web)
 2-15 20 1/2 x 3/8 x 49-7 1/8 (Covers)

Mat'l for diaph. at L1
 4-ad
 2-15 4-3/2 x 3/8 x 1-1-ac
 1-pc
 2-da

Diaph. Mat'l.
 4-15 4-3/2 x 3/8 x 1-5-2-ad
 1-15 17 1/2 x 3/8 x 1-6-2-pf

L0-2, 2W
 L0-2, 2E (Left except Gusset Pl at L1 & L2)



MATERIAL: O. H. Steel A. S. T. M. A7-36
 Copper bearing 0.20 min. copper content
 SPECIFICATIONS: Special by Wilbur Watson & Associates also Ohio State Highway
 INSPECTION: James H. Herron Co.
 ERECTION: A. B. Co.
 RIVETS: 3/8 unless noted
 OPEN HOLES: 1/8 unless noted
 REAMING: All holes in material 3/8 thick or less subpunched 1/8 dia. and reamed to size while parts are assembled.
 Holes in material more than 3/8 thick shall be drilled.
 Holes for bracing and diaphragms which do not pass thru main truss material may be punched full size.
 Holes marked RT subpunched or sub-drilled 1/8 dia. and reamed to size to a metal template.
 Holes marked RA reamed while chords of trusses are assembled.

SPAN 2, DIV. 5

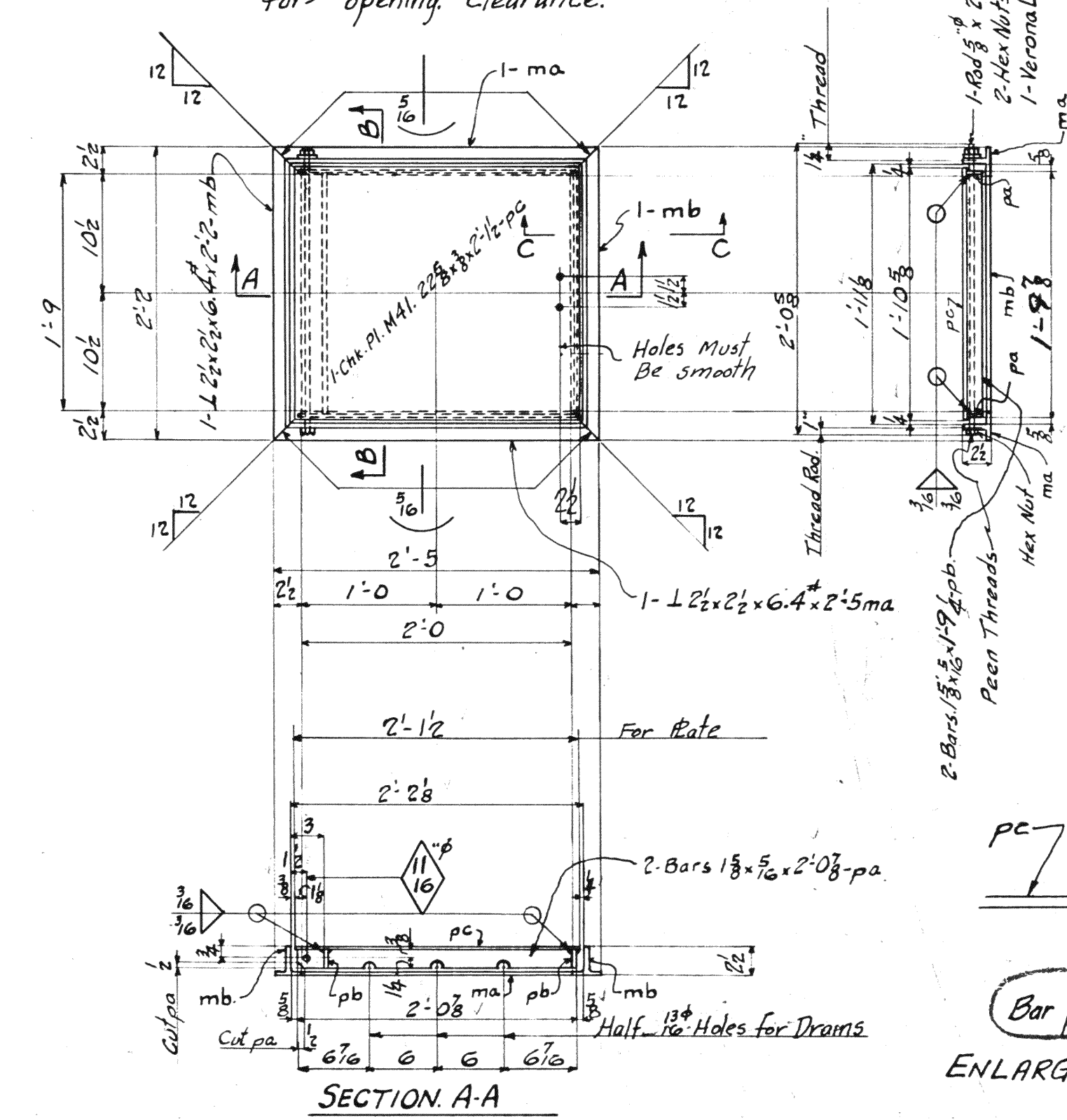
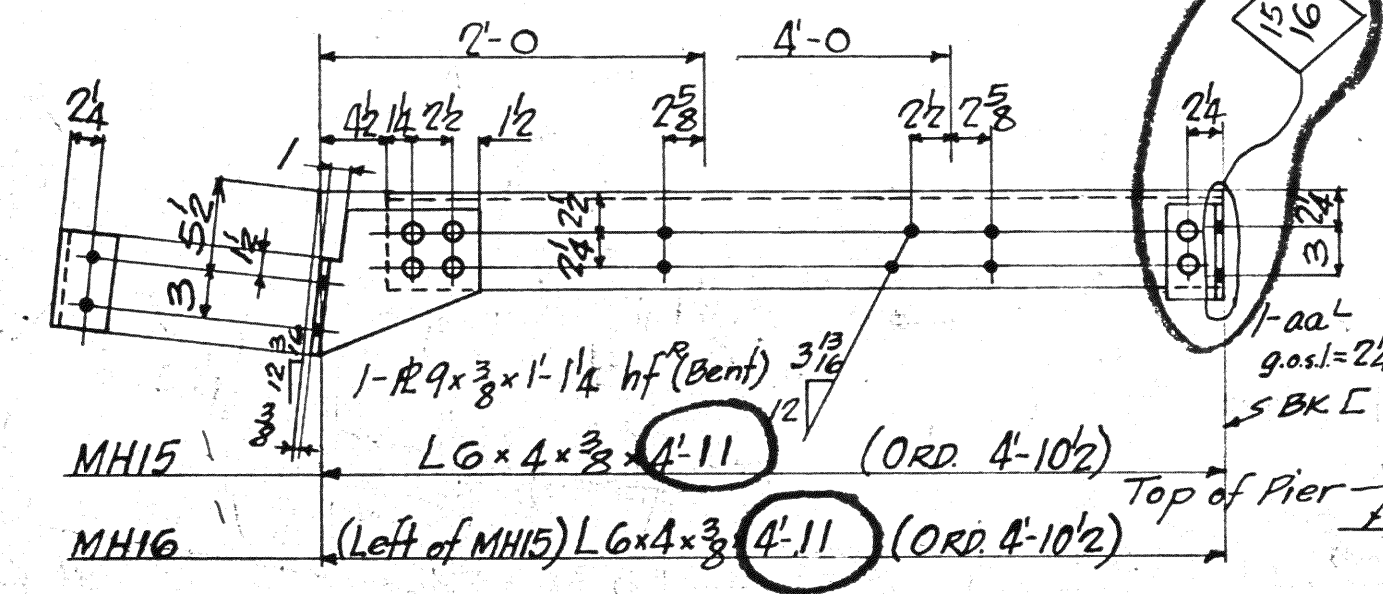
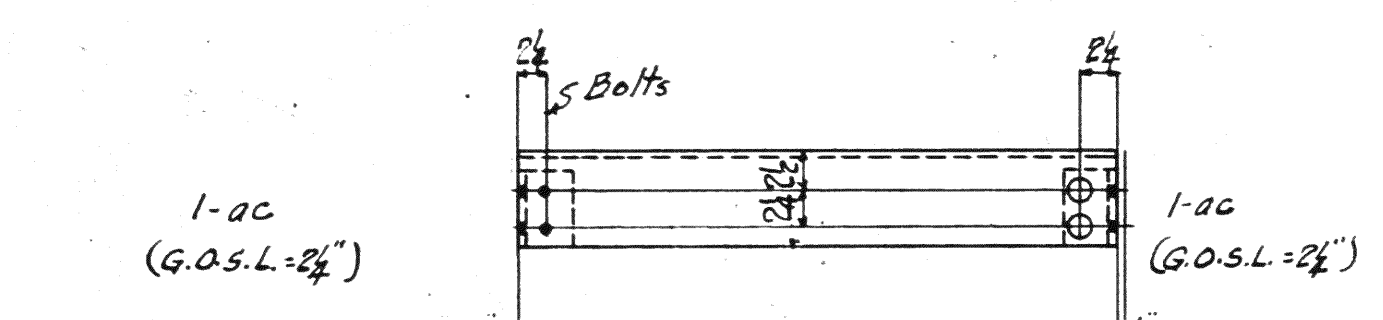
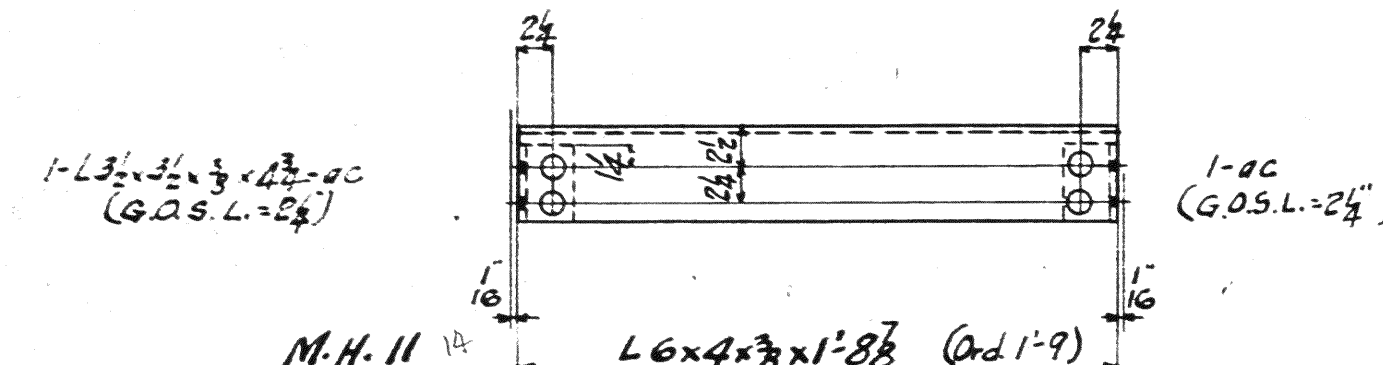
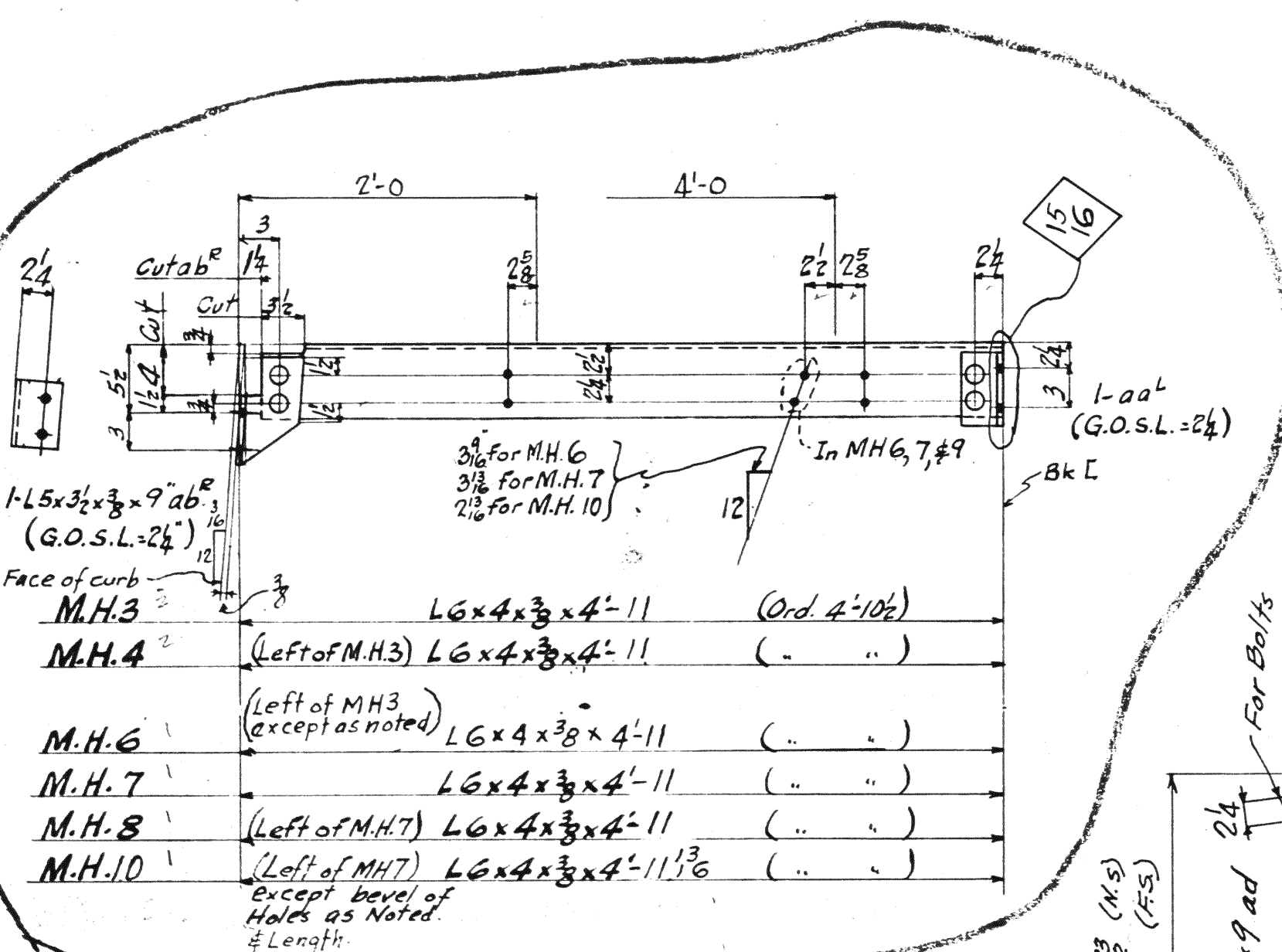
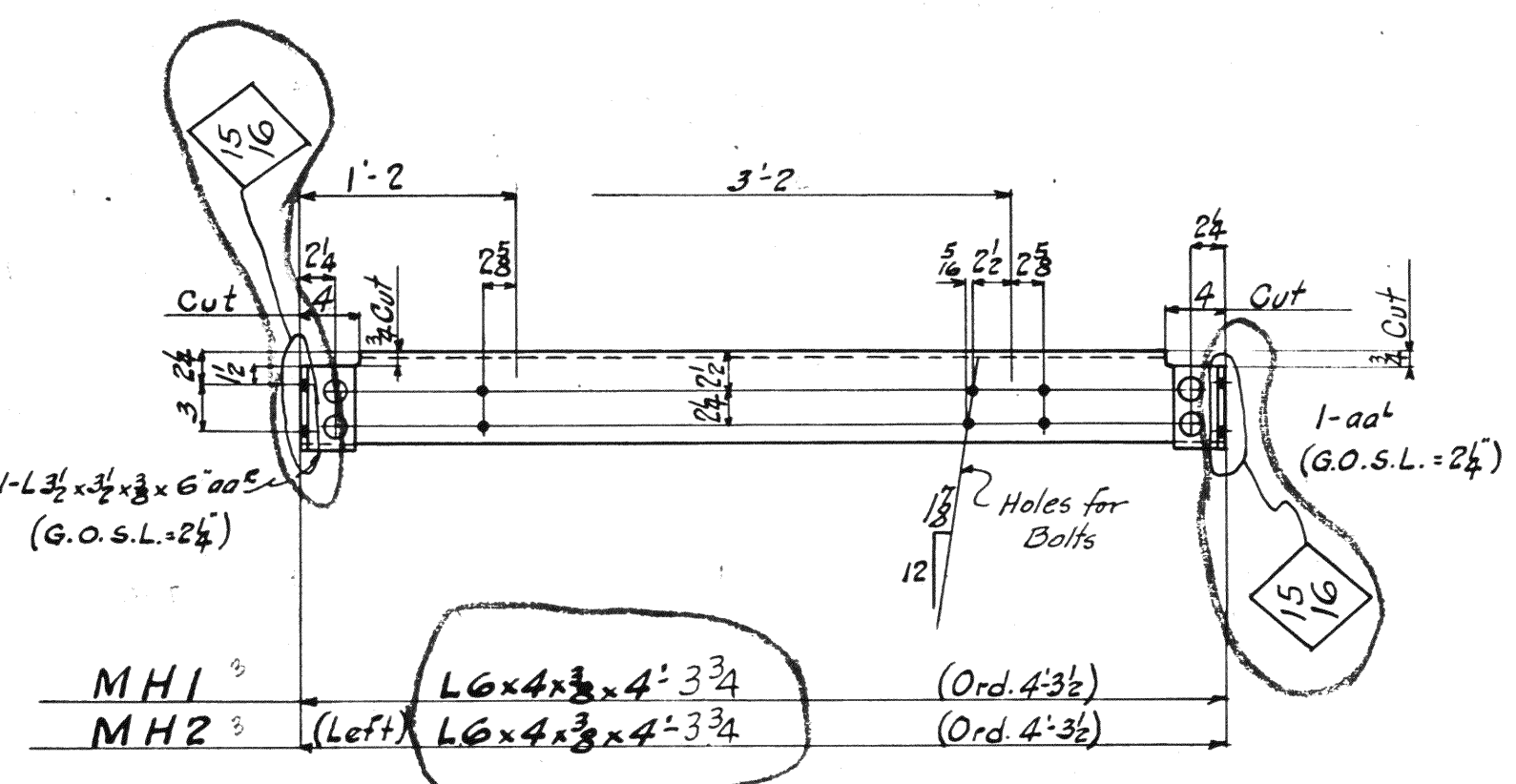
Required		
No	Description	Mark
1	Bott Chord	L0-2, 2W
1	Bott Chord	L0-2, 2E

Lorain County, Ohio
 EAST 21st STREET BRIDGE
 Lorain, Ohio

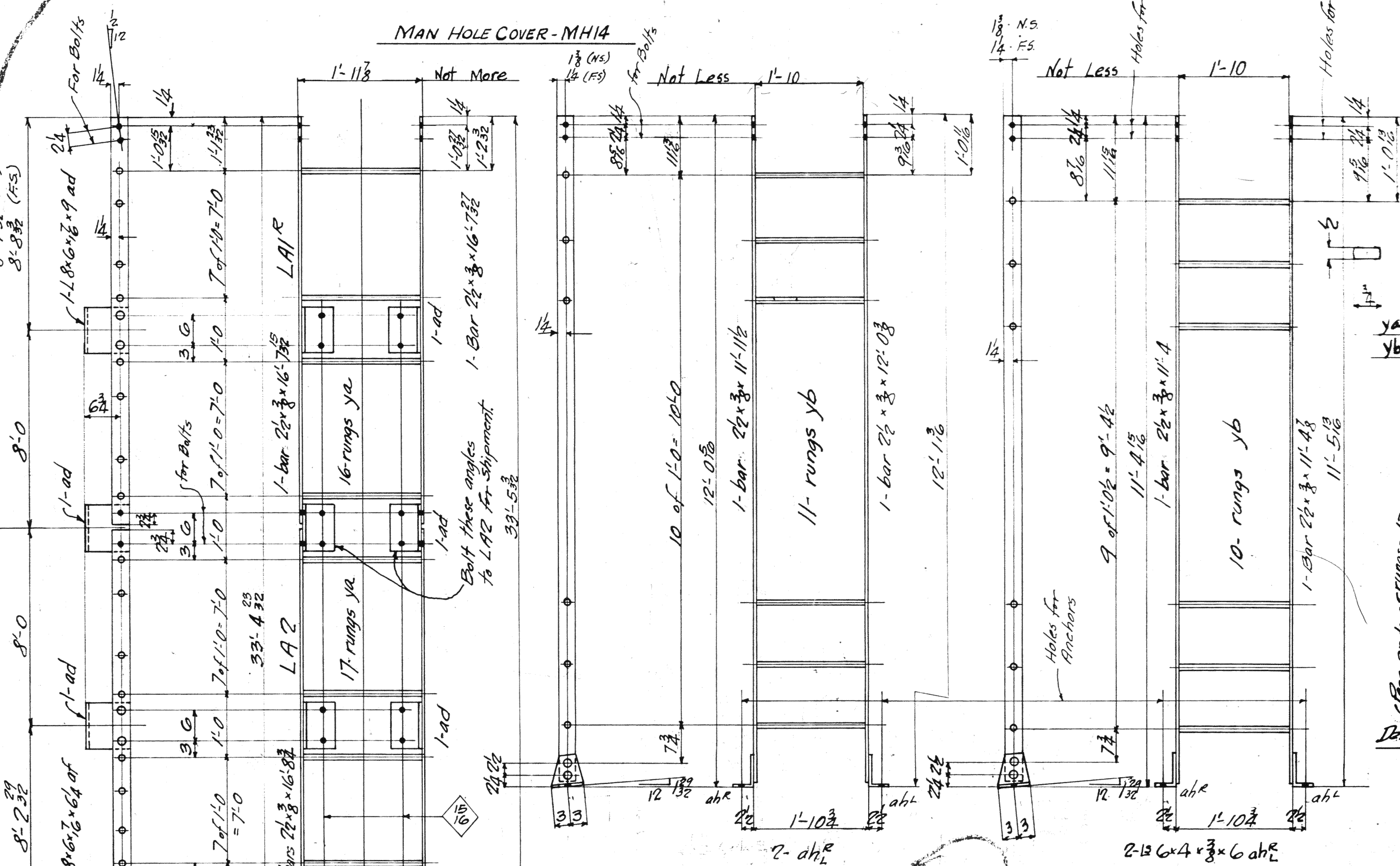
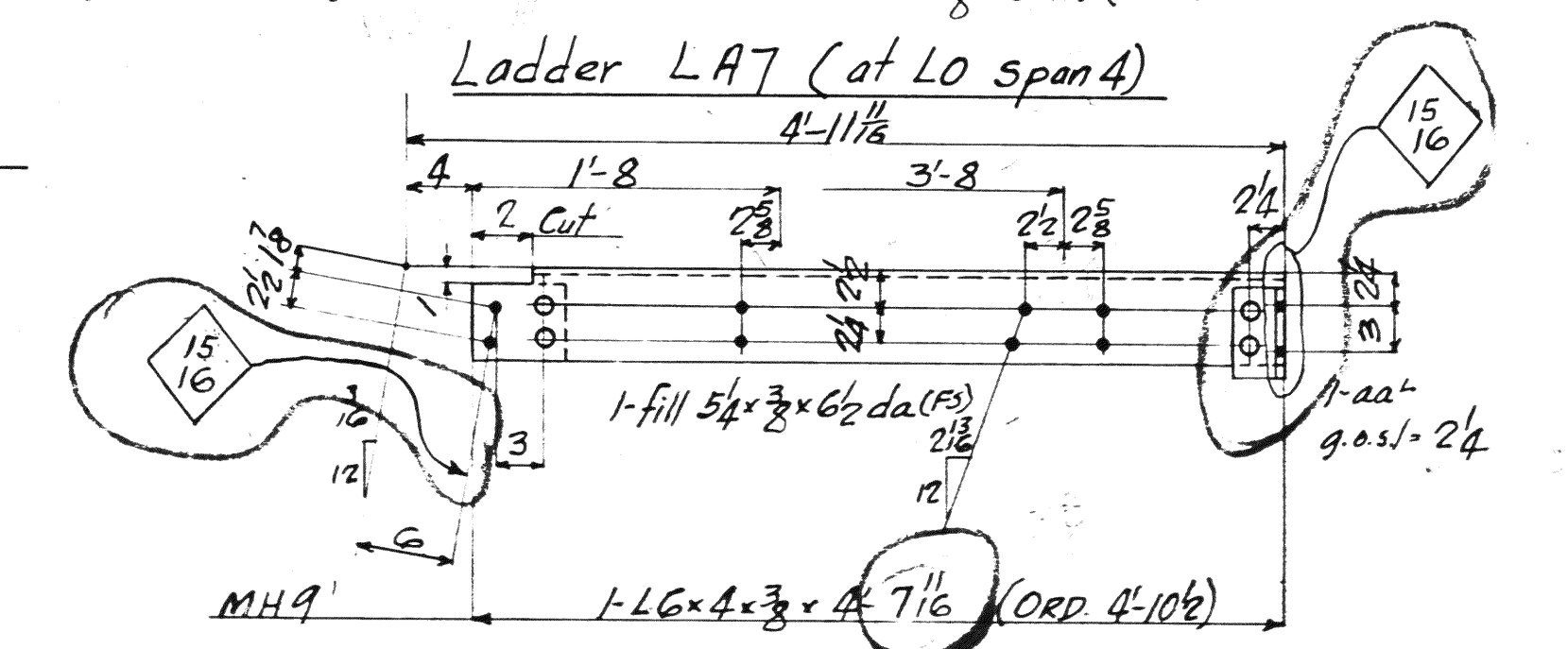
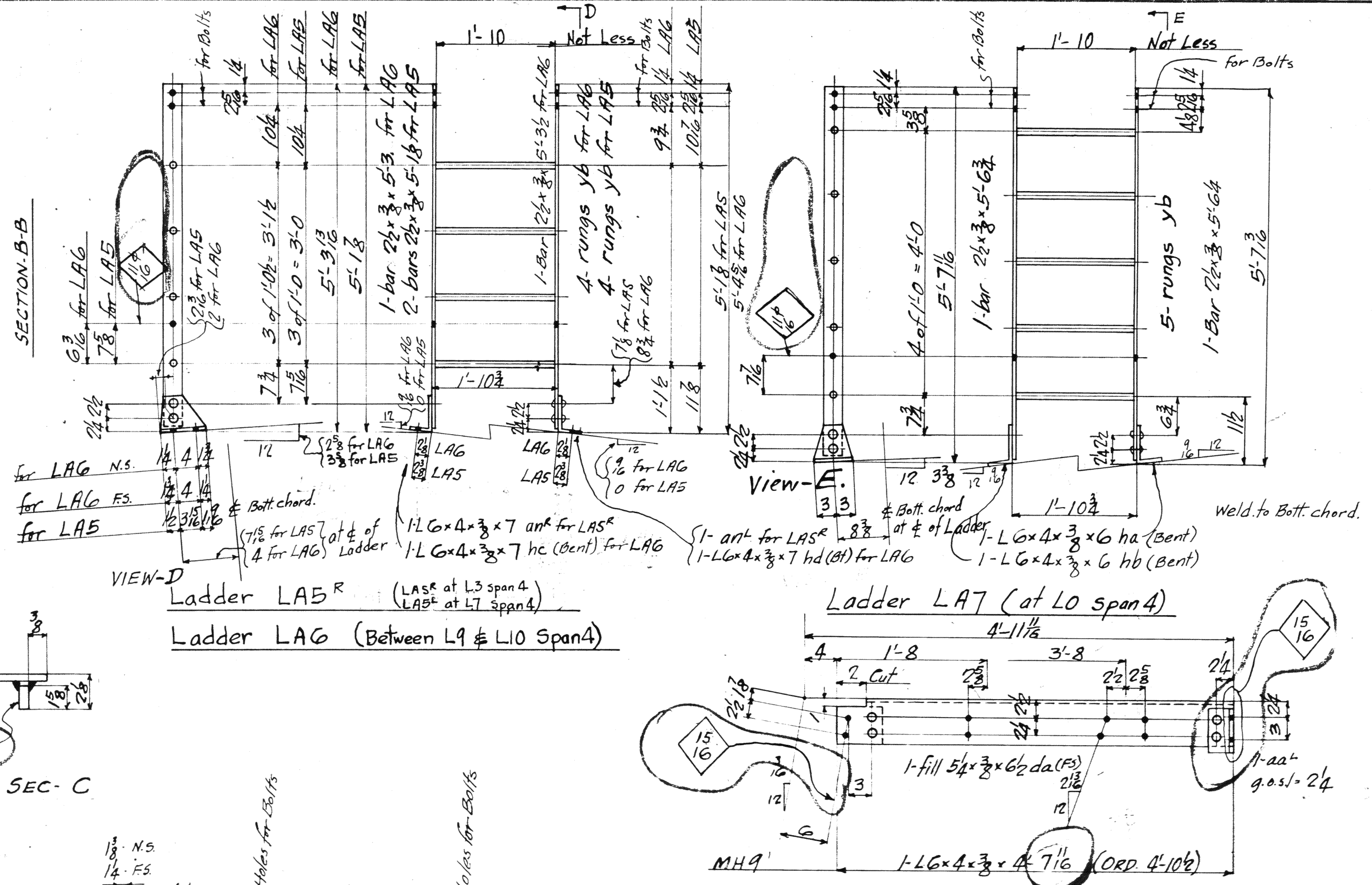
D63-2M-10-38
AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT Ambridge PLANT.
 WORK FABRICATED AT Ambridge PLANT.
 IN CHARGE OF Loughman DR#2
 DRAW. MADE BY H.R.F. FLH DATE 8-10-39
 DRAW. CHECKED BY [Signature] DATE 8-17-39

ORDER No. **H2524** SHEET No. **507**

Note: Shop must test doors for opening clearance.



ENLARGED SEC - C

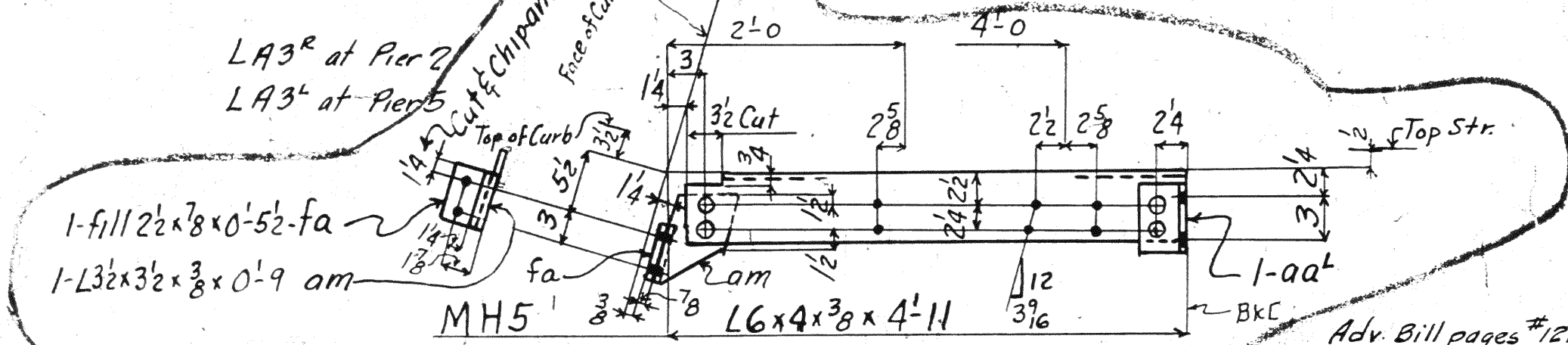


Ladder LA3R

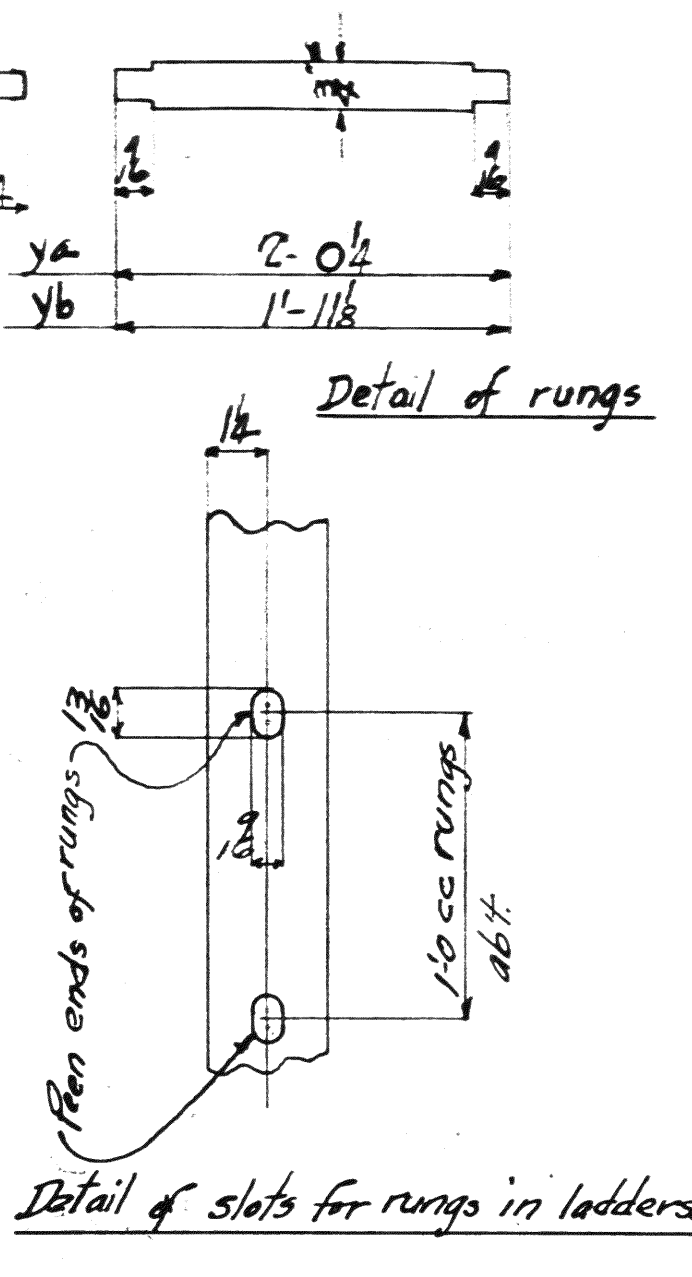
Ladder LA4 (at pier 1)

Ladder LA1R (at Pier 4)

Ladder LA2 (at Piers 3 & 4)



DIV. 7		6		4		3		2		REQUIRED	
Span	4	3	1	4	5	Total No	Description	Mark			
		1	1		1	3	Man Hole Frames	MH1			
					1	3	"	MH2			
					1	2	"	MH3			
					1	2	"	MH4			
					1	1	"	MH5			
					1	1	"	MH6			
					1	1	"	MH7			
					1	1	"	MH8			
					1	1	"	MH9			
					1	1	"	MH10			
	4	2	2	4	2	14	"	MH11			
					1	2	"	MH12			
					1	2	"	MH13			
	2	2	1	2	2	9	Man Hole Cover	MH14			
					1	1	Ladder	LA1R			
					1	2	"	LA2			
					1	1	"	LA3L			
					1	1	"	LA4			
					1	1	"	LA5R			
					1	1	"	LA6			
					1	1	"	LA7			
					1	1	"	LA1L			
					1	1	"	LA3L			
	1					1	Man Hole Frames	MH15			
						1	"	MH16			
						1	Ladder	LA5L			



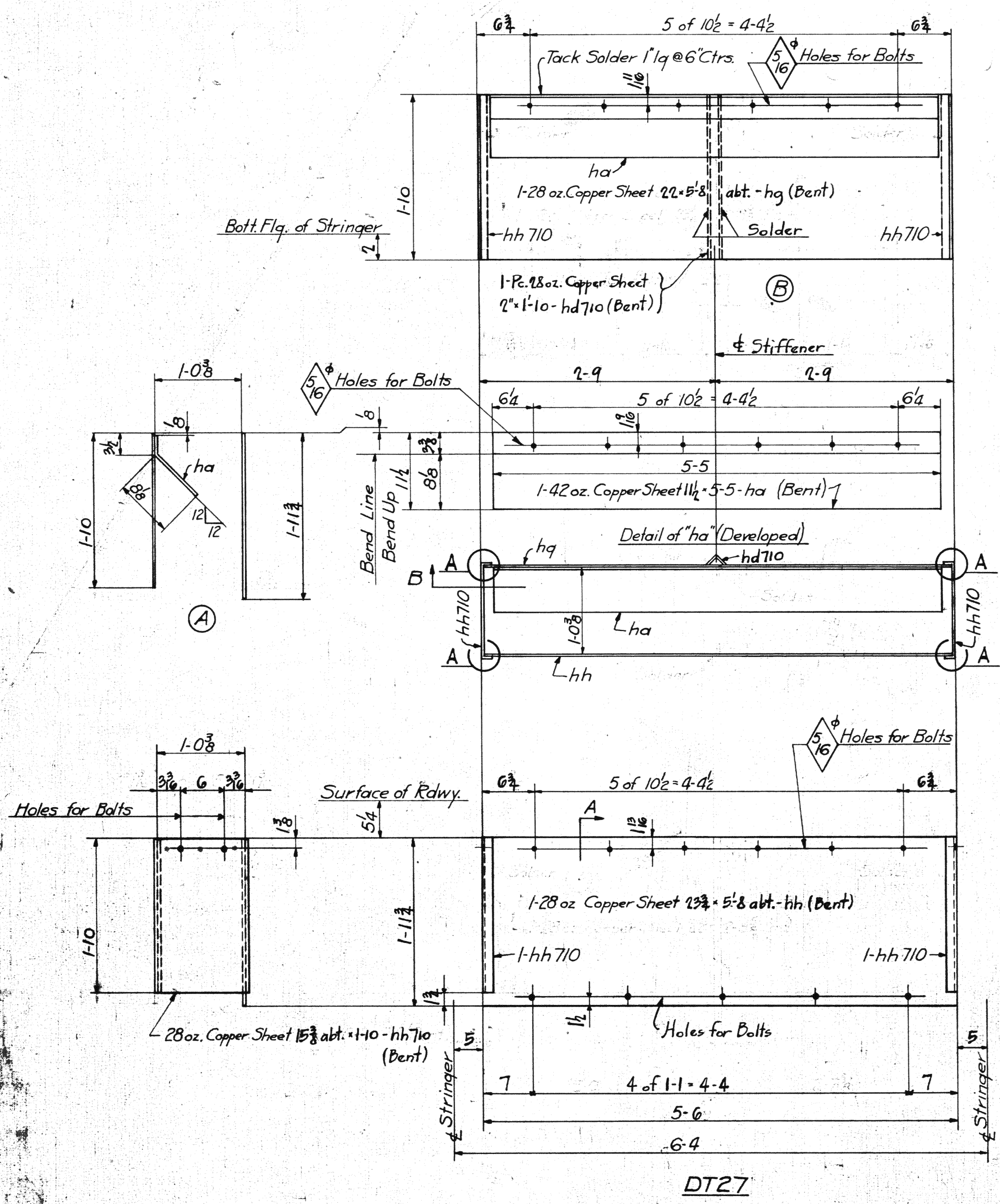
MATERIAL: G. H. Steel A.S.T.M. A7-36
 Copper bearing 0.20 min. copper content
 SPECIFICATIONS: Special by Wilbur Watson & Associates also Ohio State Highway
 INSPECTION: James H. Herron Co.
 ERECTION: A. B. Co.
 RIVETS: 3/8" unless noted
 OPEN HOLES: 1/8" unless noted
 REAMING: All holes punched full size except in material more than thick shall be drilled.

Lorain County, Ohio
 EAST 21st STREET BRIDGE
 Lorain, Ohio

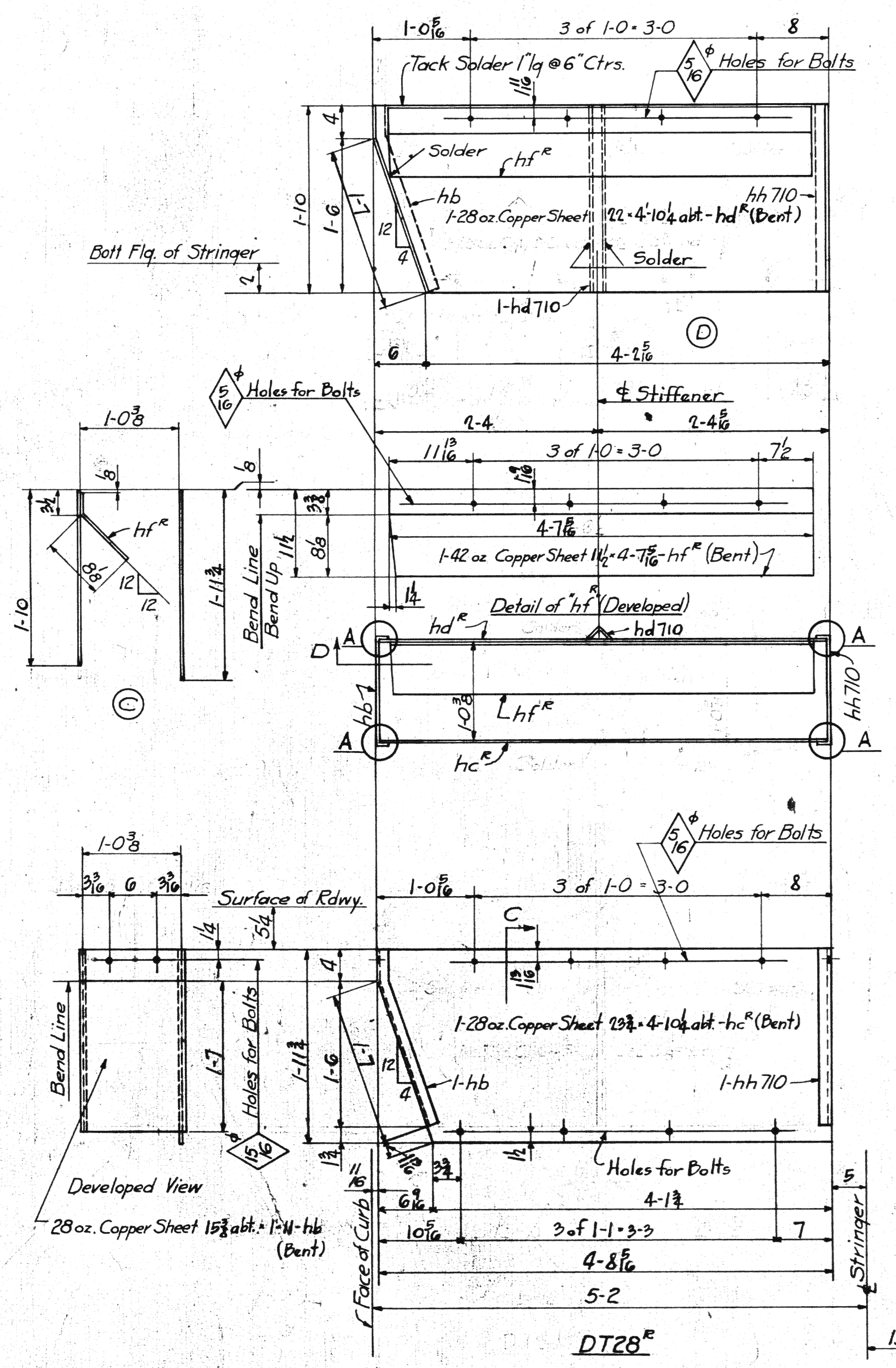
AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT *Ambridge* PLANT.
 WORK FABRICATED AT *Ambridge* PLANT.
 IN CHARGE OF *Loughran* D.R.
 DRAW. MADE BY *RW-JEM* DATE 8-16-39
 DRAW. CHECKED BY *ALC* DATE 8-23-39

ORDER NO. H2524
 SHEET NO. 706

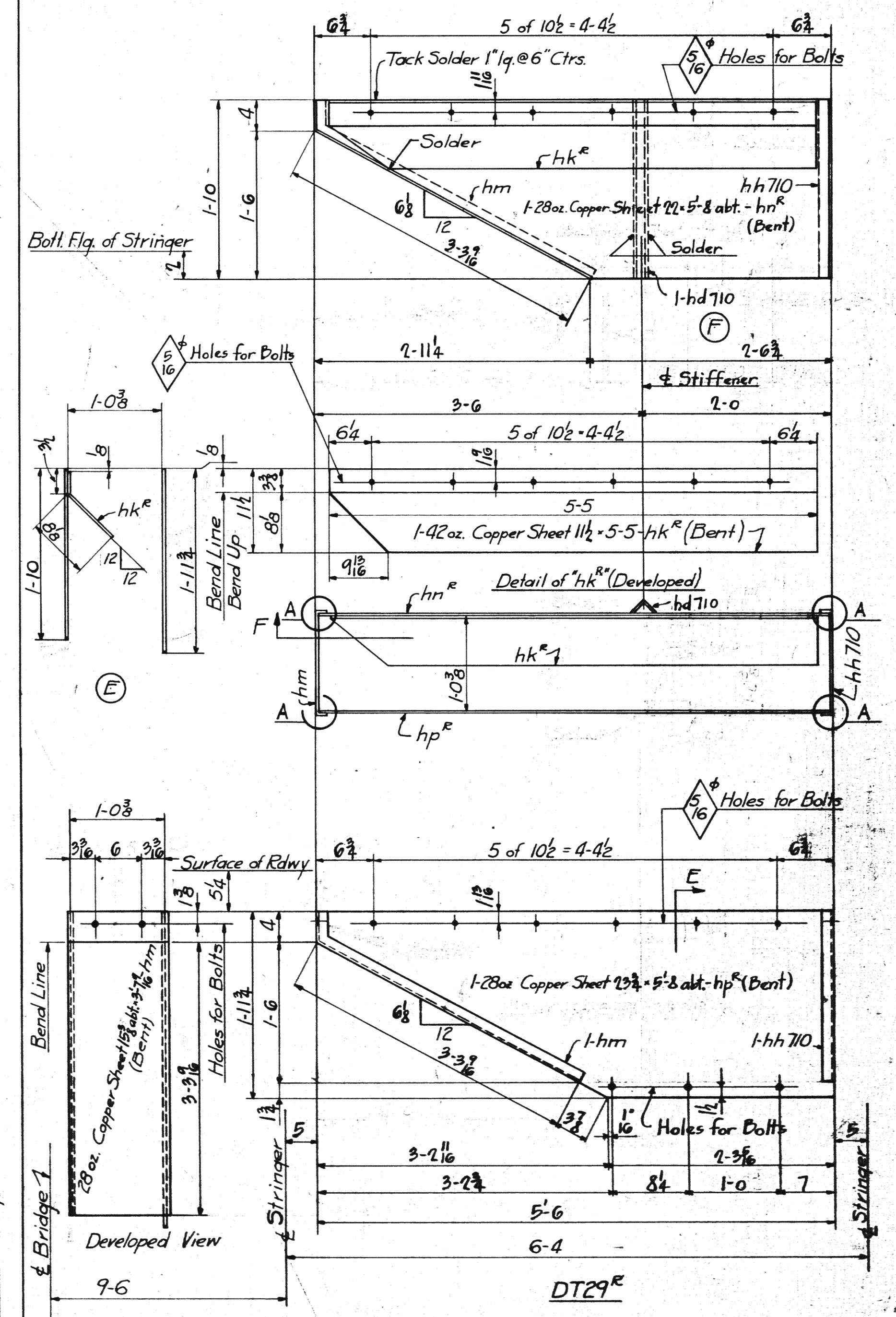
Rev. 9/1/39 14



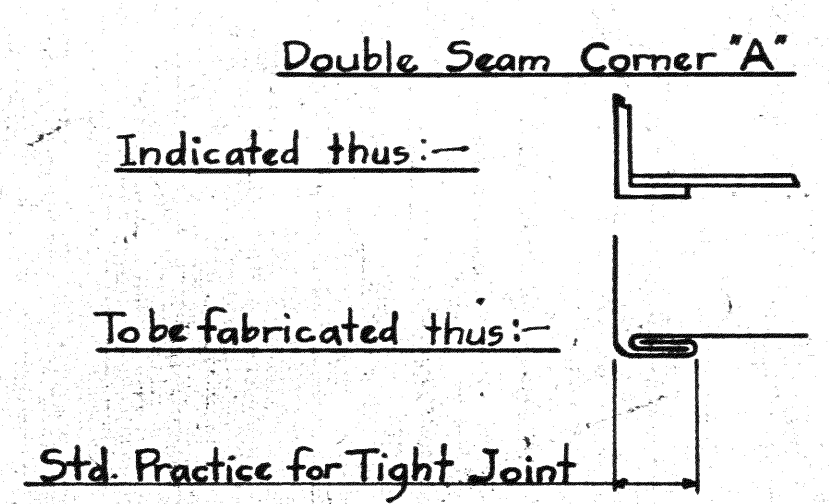
DT27



DT28



DT29

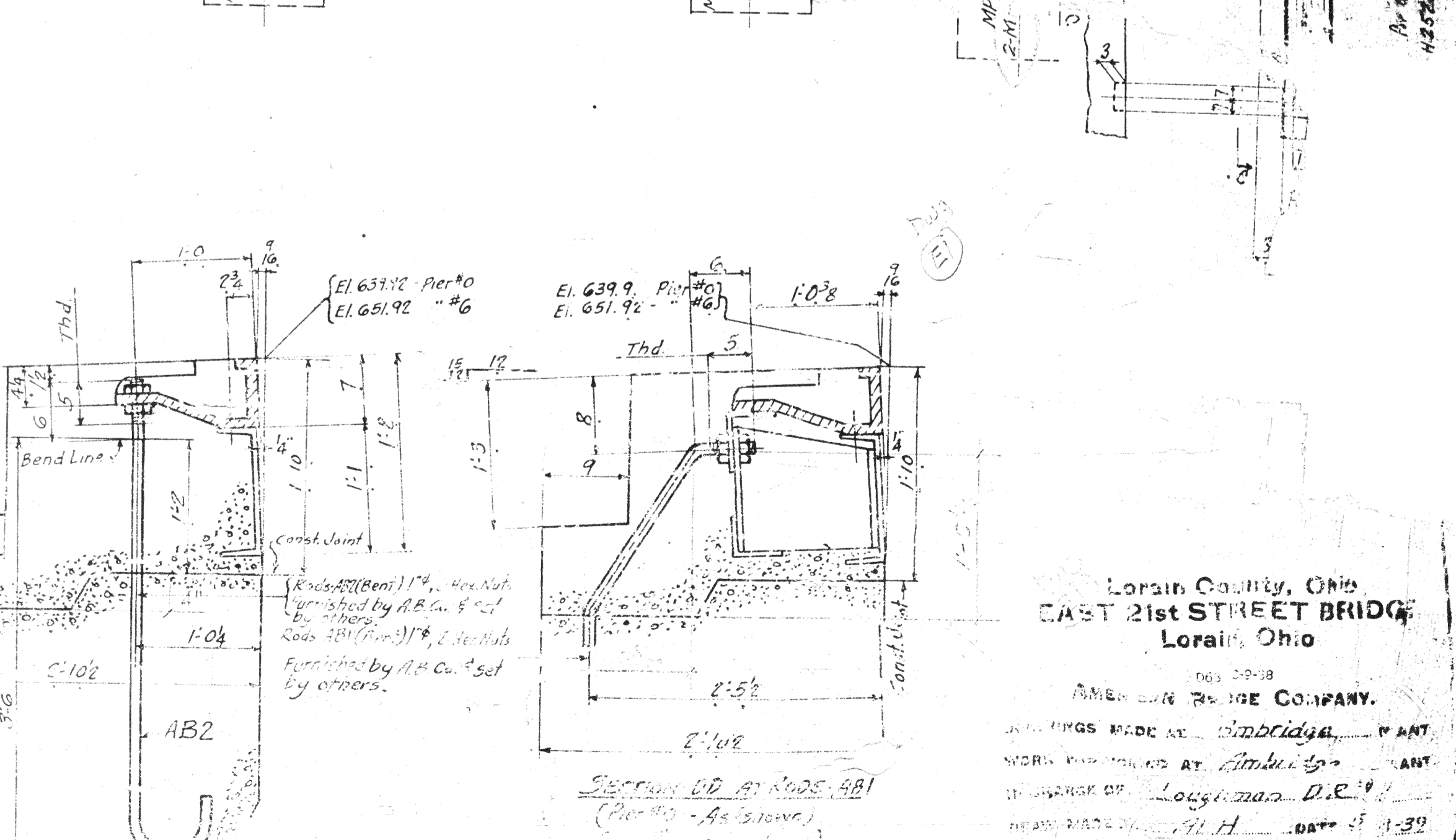
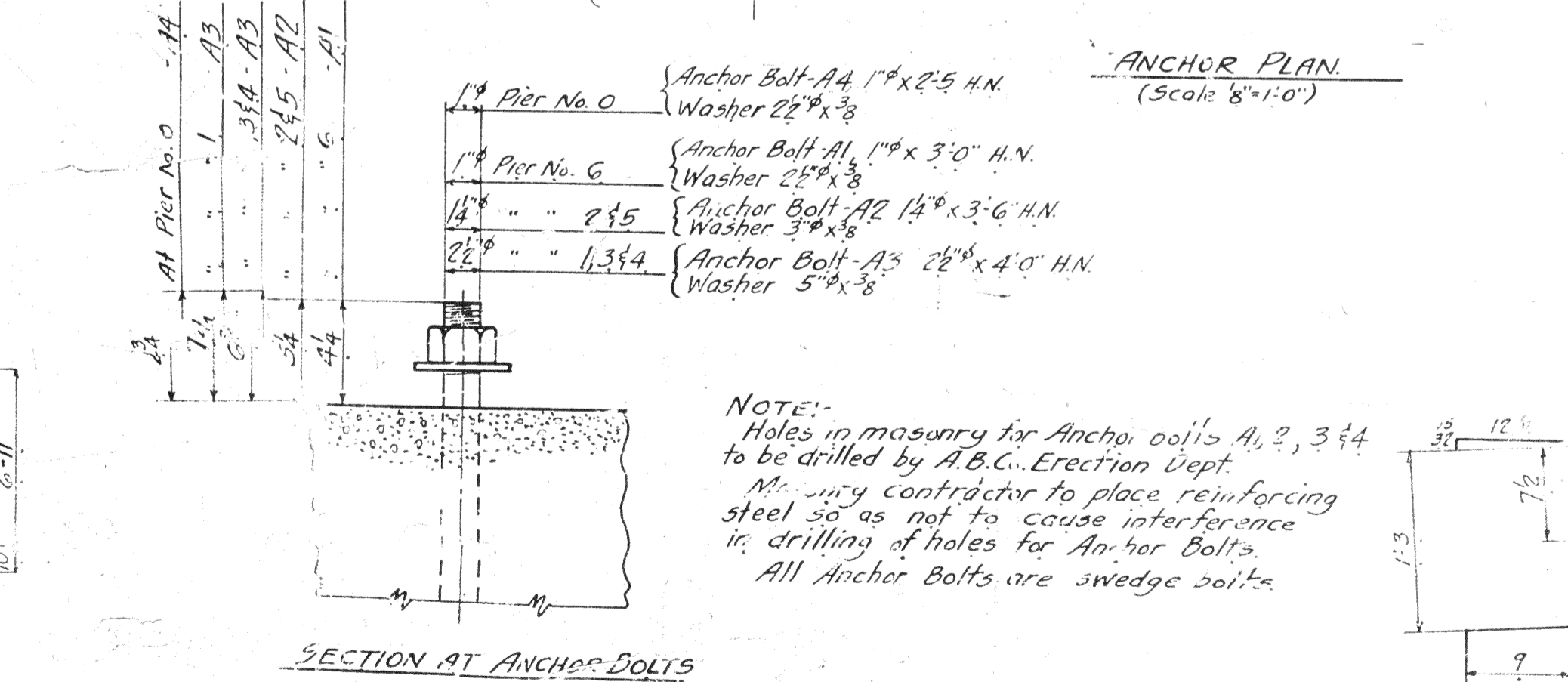
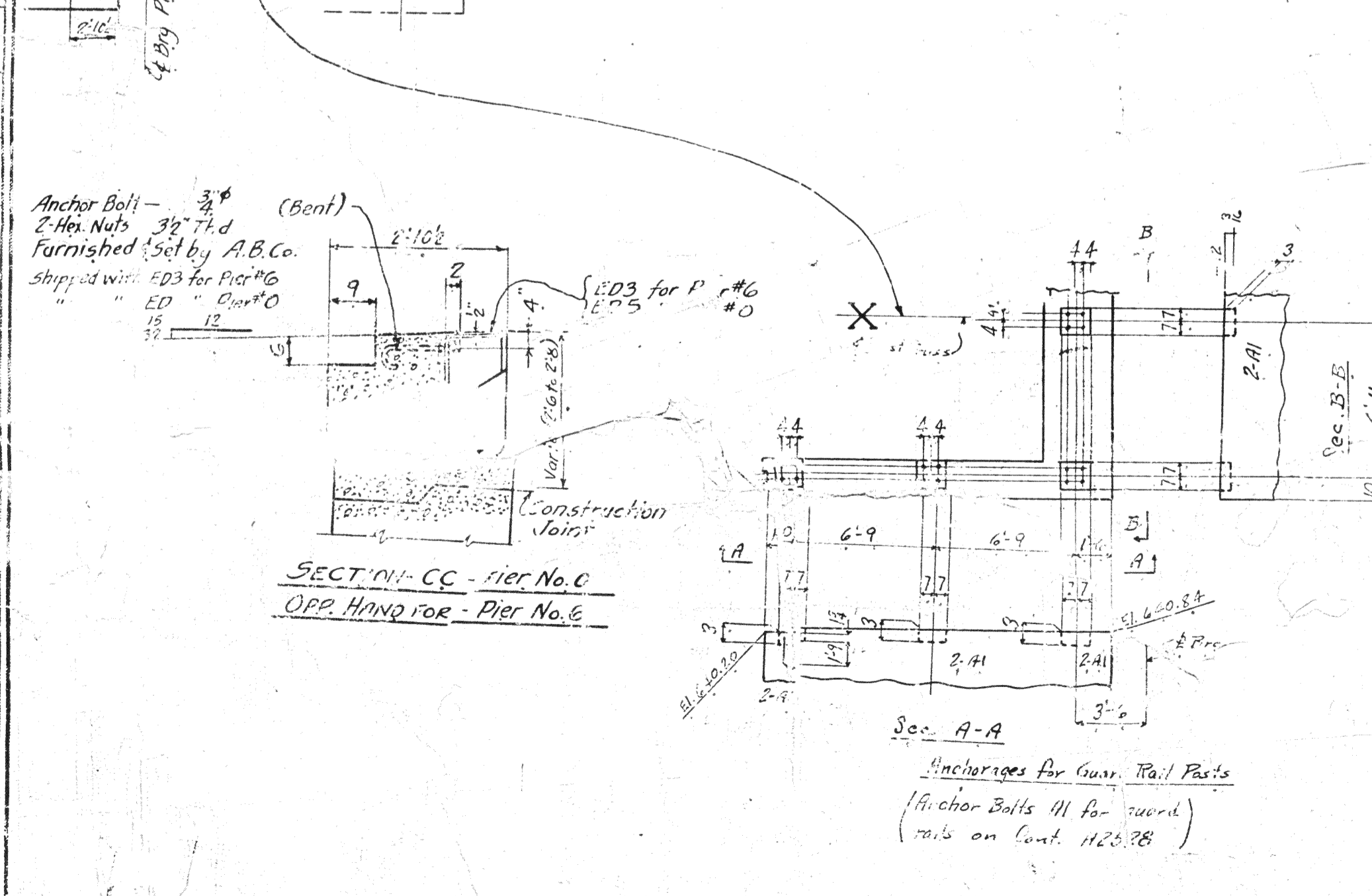
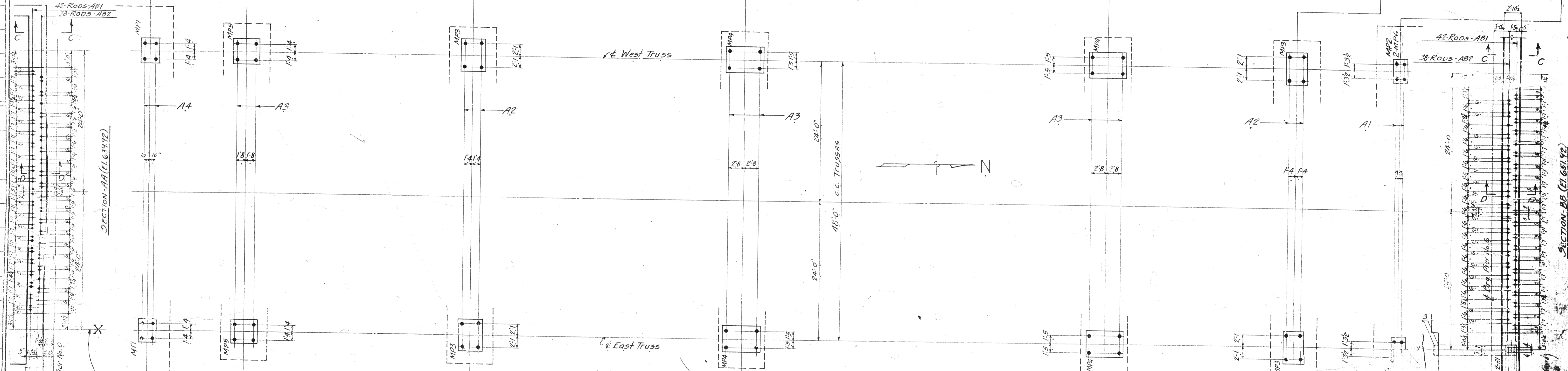
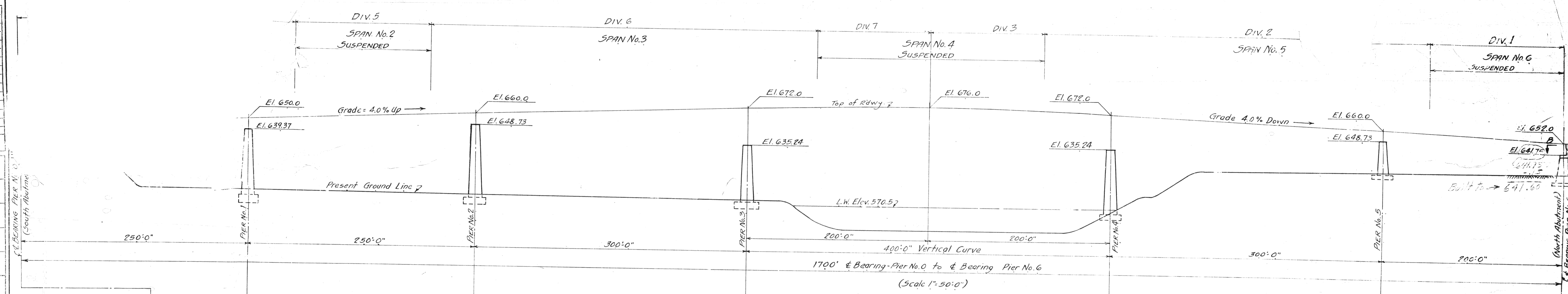


Ship with Div. 7 (Ship Div. 7)

SPAN 4		REQUIRED		
Div. 7	Div. 3	No.	Description	Mark
2	5	7	Copper Flashing	DT27
1	2	3	do	DT28
1	2	3	do	DT29
1	1	1	do	DT27
1	1	1	do	DT28

Reg-19932

MATERIAL: Copper Sheets ASTM.
 Std. for Pre-refined Copper.
 SPECIFICATIONS: Special Wilbur
 Watson & Associates and Ohio State
 Highway
 INSPECTION: James H. Herron Co.
 ERECTION: A. & Co.
 RIVETS:
 OPEN HOLES: unless noted
 REAMING: All holes punched
 Lorain County, OHIO
 EAST 21st STREET BRIDGE
 Lorain, Ohio
 AMERICAN BRIDGE COMPANY
 CINCINNATI, OHIO

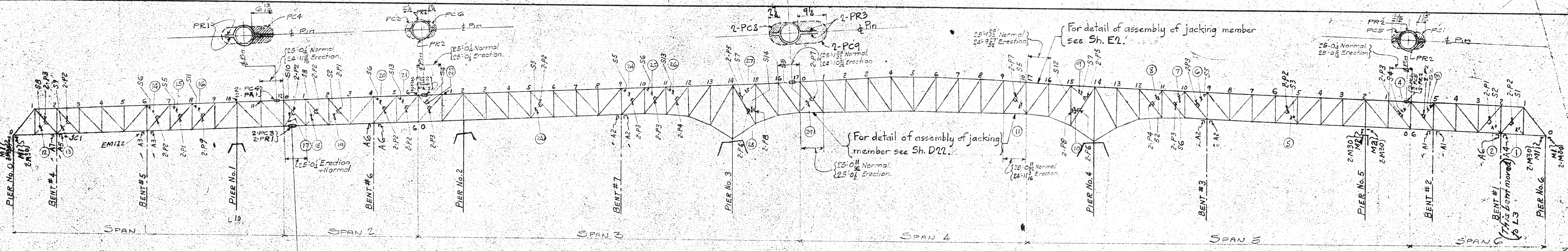


Anchor Bolt - 3/4" (Bent)
 2 Hex. Nuts 3/4" Thd
 Furnished Set by A.B.Co.
 Shipped with ED3 for Pier No. 0
 ED 3/4" Dia. x 10"

NOTE:
 Holes in masonry for Anchor bolts A1, 2, 3 & 4 to be drilled by A.B.Co. Erection Dept.
 Masonry contractor to place reinforcing steel so as not to cause interference in drilling of holes for Anchor bolts.
 All Anchor Bolts are swedge bolts.

Lorain County, Ohio
CAST 21st STREET BRIDGE
 Lorain, Ohio

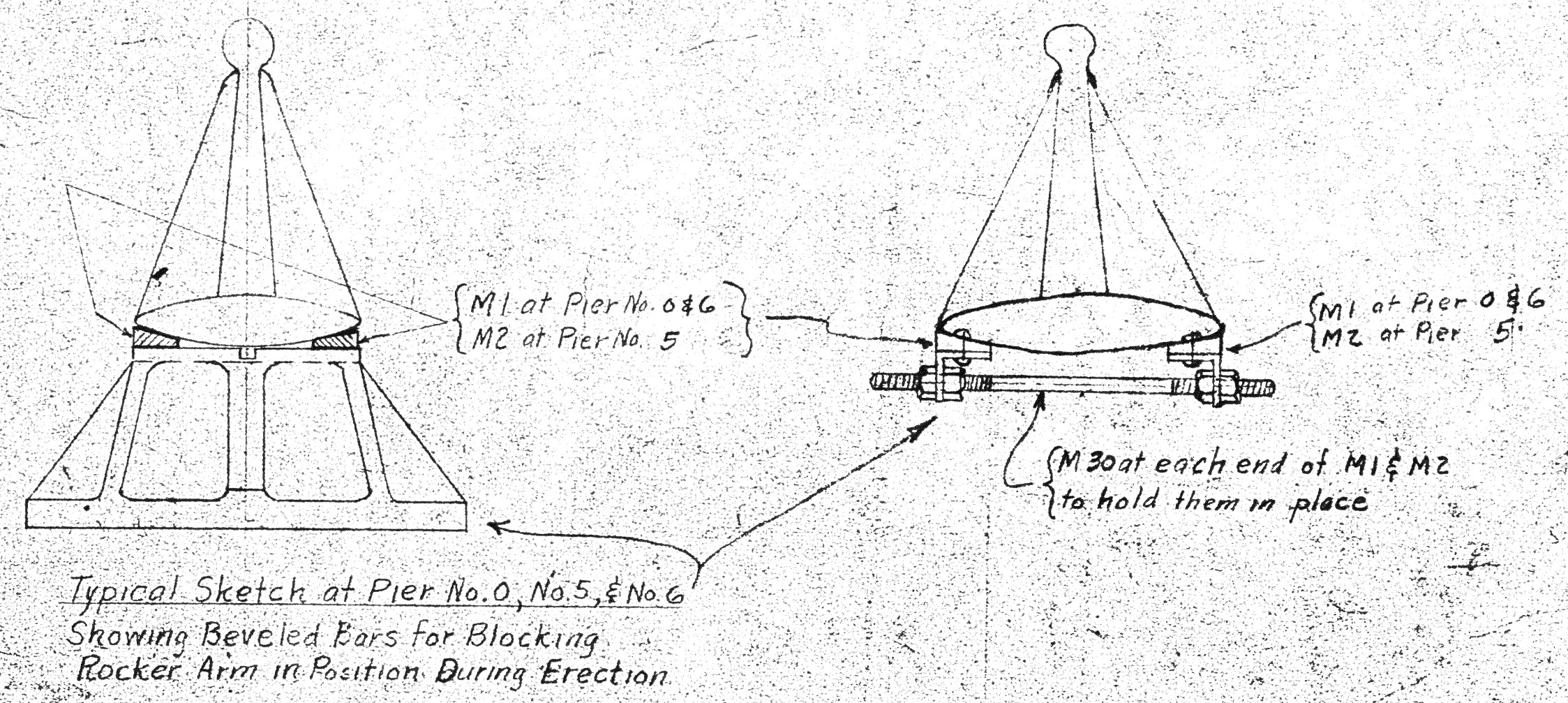
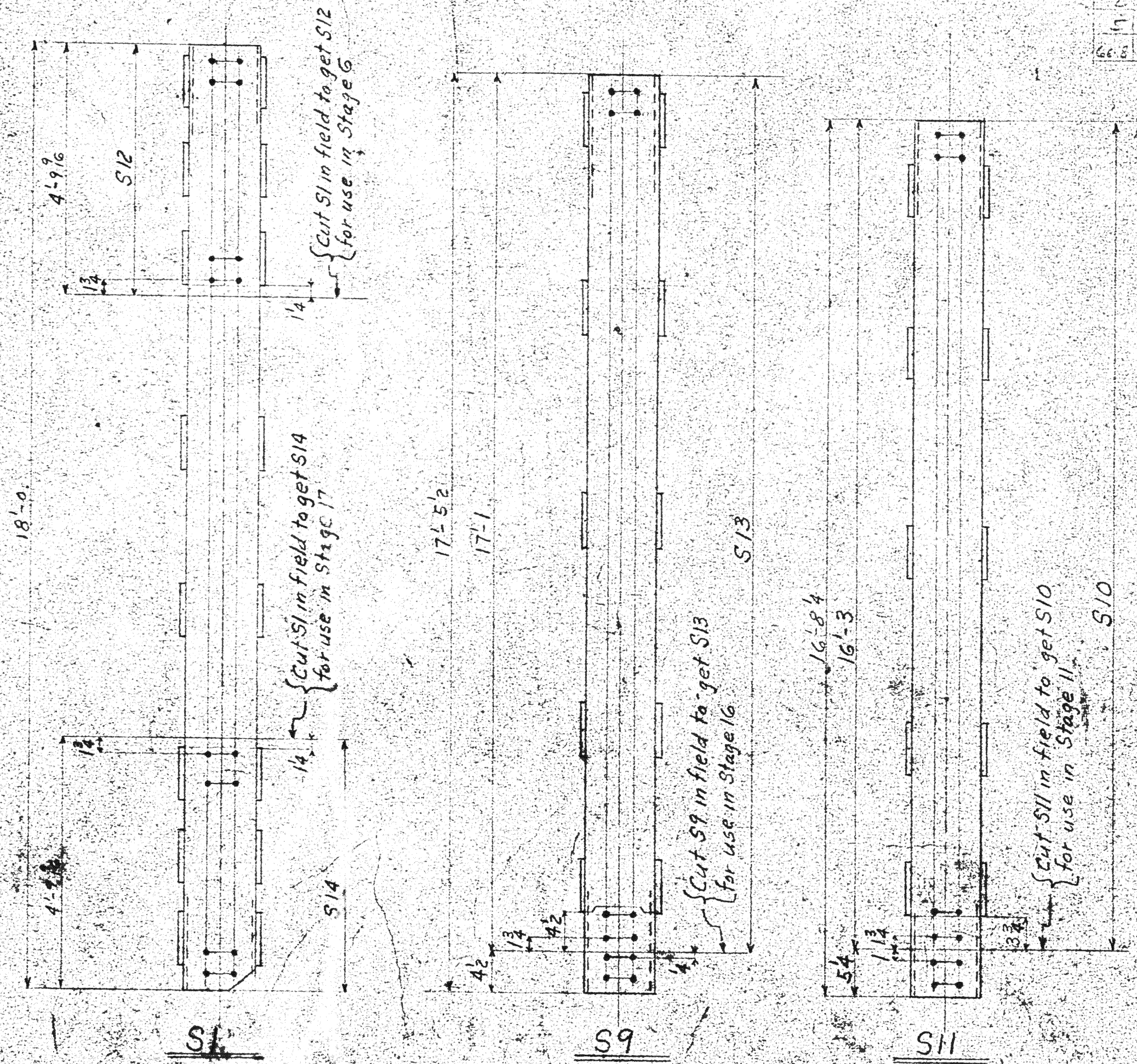
AMERICAN BRIDGE COMPANY.
 BRIDGES MADE AT Cambridge, MA
 WORK PERFORMED AT Columbus, OH
 DESIGNED BY Loughman, D.E.
 DRAWN BY J.H.
 DATE 1-3-39
 SHEET NO. 1
 OF 1



Strut Mk	Point	STAGE #	
		Req	Not Req.
S1	(1)	1a	4
S2	(2)	1a	4
S3	(3)	2a	3
S4	(4)	2a	3
S5	(5)	3	7
S5	(6)	5	6
S6	(7)	5	6
S2	(8)	5	6
S7	(9)	6	16
S12	(10)	6	18
S5	(11)	6	7
S8	(12)	9a	10b
S9	(13)	9a	10b
S6	(14)	10a	10b
S5	(15)	10a	10b
S11	(16)	10a	10b
S10	(17)	11	12
S8	(18)	11	15
S2	(19)	11	15
S6	(20)	12	13
S13	(21)	12	13
S3	(22)	12	13
S5	(23)	14	17
S5	(24)	16	17
S6	(25)	16	17
S13	(26)	16	17
S7	(27)	17	18
S14	(28)	17	18
S5	(29)	17	18

Point #	Strut Length	Also Used At Points (in successive order →)	REMARKS
(1)	15-0	(3) & 4-9 1/2	Cut in field
(2)	17-1	(8)	
(3)	17-2	(23)	
(4)	15-7 1/2	(19)	
(6)	16-10	(17) (24) (29)	
(7)	15-8 1/2	(12) (25)	
(9)	13-0 1/2	(13)	
(12)	17-10	(26)	
(15)	17-5 1/2	(1) & 17-1	Cut in field
(16)	16-5 1/2	(7) & 16-3	Cut in field
(21)	19-10 1/2		

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



Lorain Construction Co.
EAST 21st STREET
Lorain, Ohio

AMERICAN BRIDGE COMPANY

DRAWING MADE AT 1/2" = 1'-0"

NOT REPLICATED WITHOUT PERMISSION

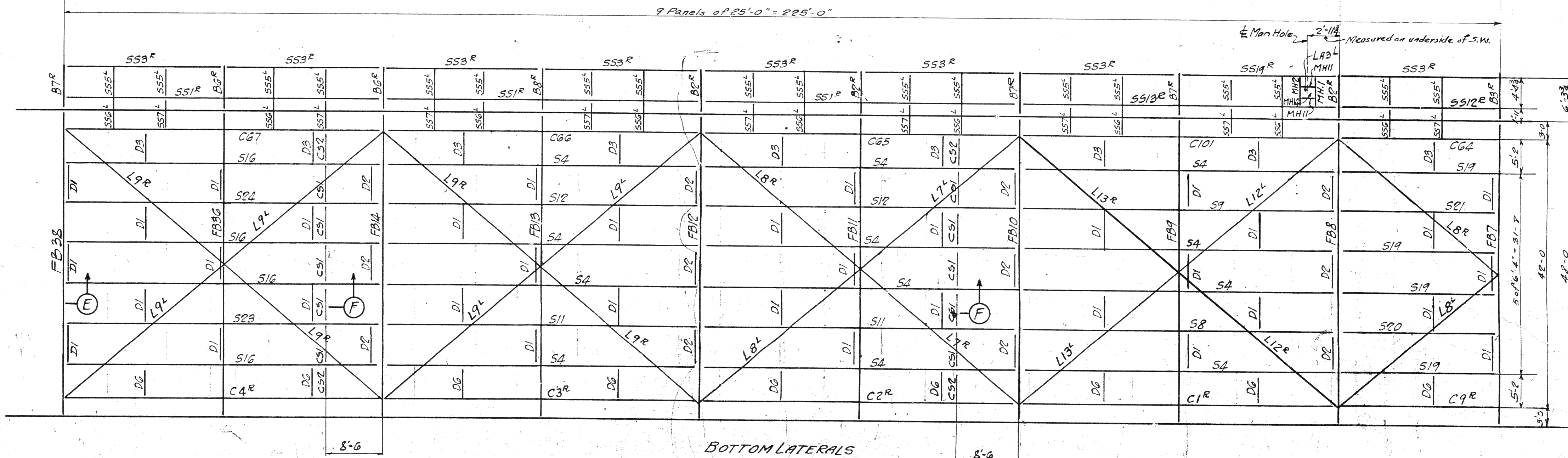
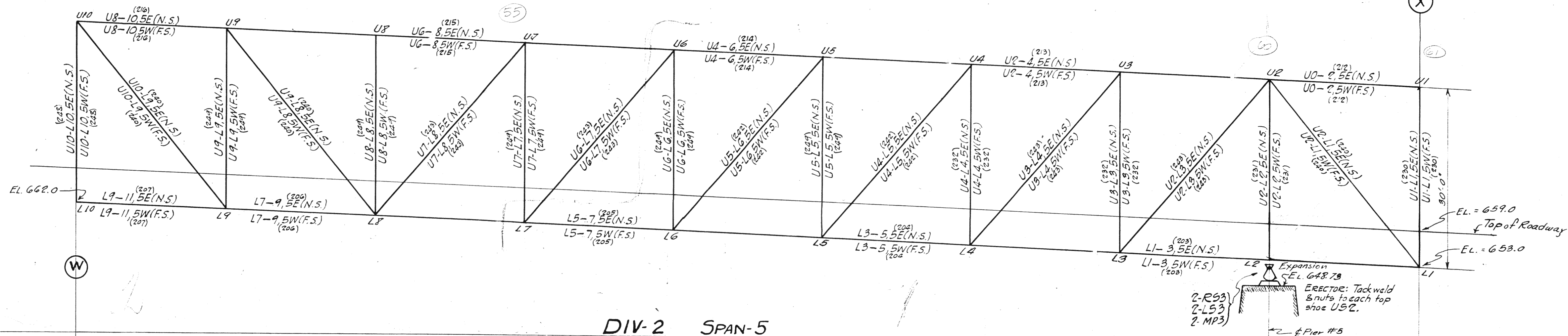
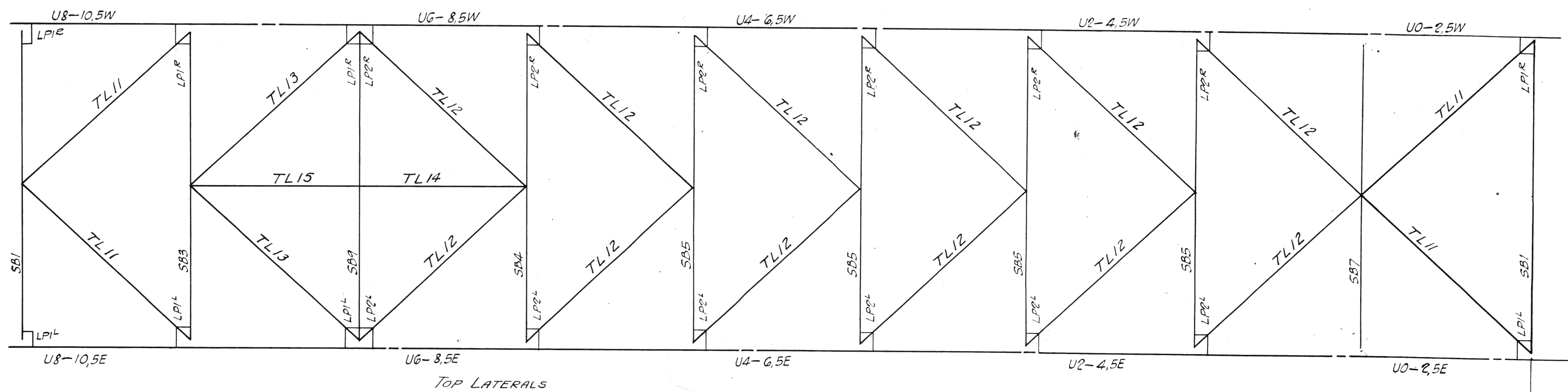
IN CHARGE OF DESIGN: [Signature]

DATE: 1-2-34

BY: [Signature]

SCALE: 1/2" = 1'-0"

BOLTS		RIVETS		BOLTS		RIVETS		BOLTS		RIVETS		BOLTS		RIVETS	
Di.	Grp	Di.	Grp	Di.	Grp	Di.	Grp	Di.	Grp	Di.	Grp	Di.	Grp	Di.	Grp



← Cont'd. on E4

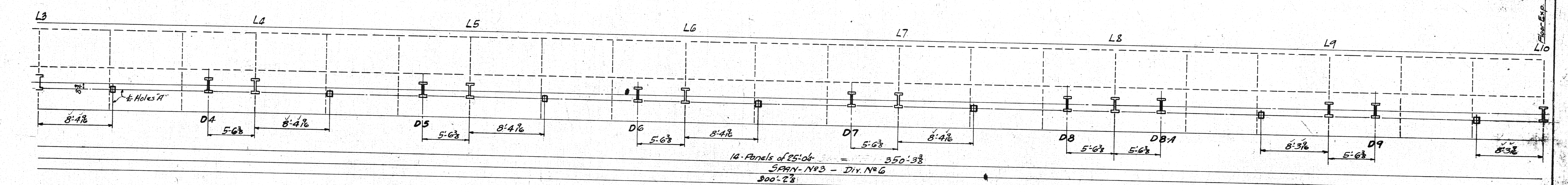
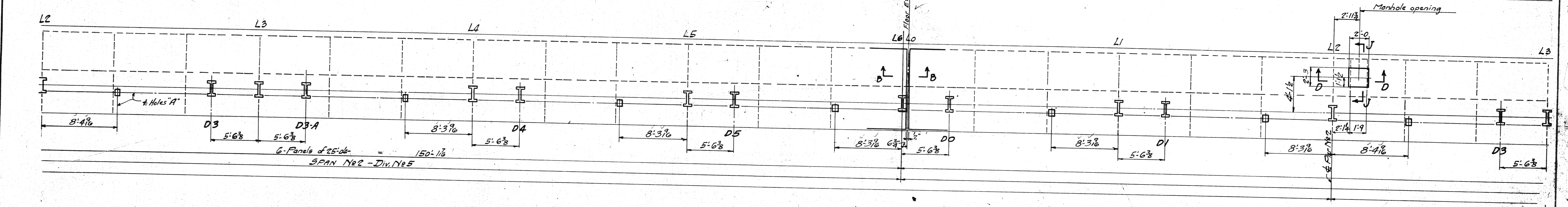
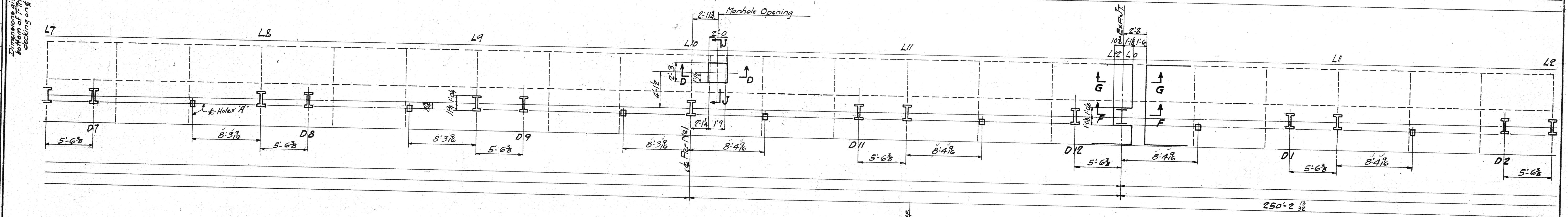
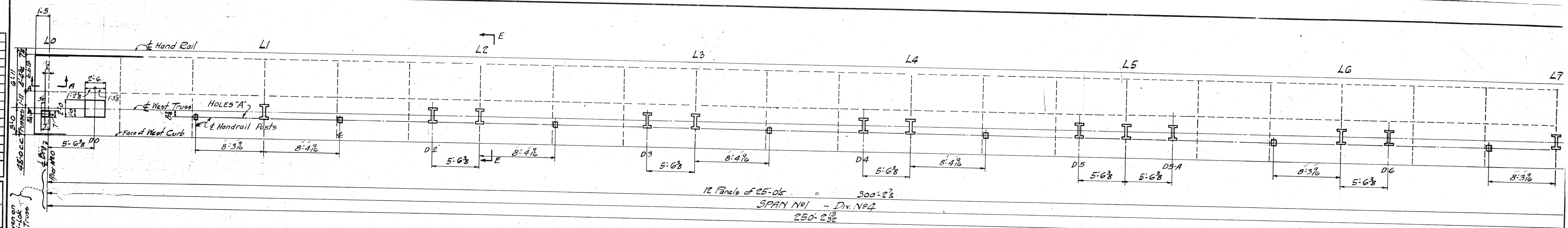
Cont'd on -E2 →

NOTE:
 Ends of stringers marked @ to be toward North abutment.
 For Sect. "F" see sh. E2
 For Sect. "E" see sh. E2
 For location of erection bents and other erection material see Sh. E1, Cont'd. #2325

ERECTION DIAGRAM - SPAN 5
 L1 TO L10
 Lorain County, Ohio
 EAST 21st STREET BRIDGE
 Lorain, Ohio

AMERICAN BRIDGE COMPANY
 DRAWINGS MADE AT AMBRIDGE PLANT.
 WORK FABRICATED AT AMBRIDGE PLANT.
 IN CHARGE OF Loughman #2
 DRAW. MADE BY R.R. DATE
 DRAW. CHECKED BY DATE
 ORDER No. H2524 SHEET 10
 F.3

BOLTS	Head	Shank	Thread	Dist.	Shank	Head	Nut	Dist.	Head	Nut
RIVETS	Head	Shank	Dist.	Head	Shank	Dist.	Head	Shank	Dist.	Head
WELDS	Dist.	Head	Shank	Dist.	Head	Shank	Dist.	Head	Shank	Dist.



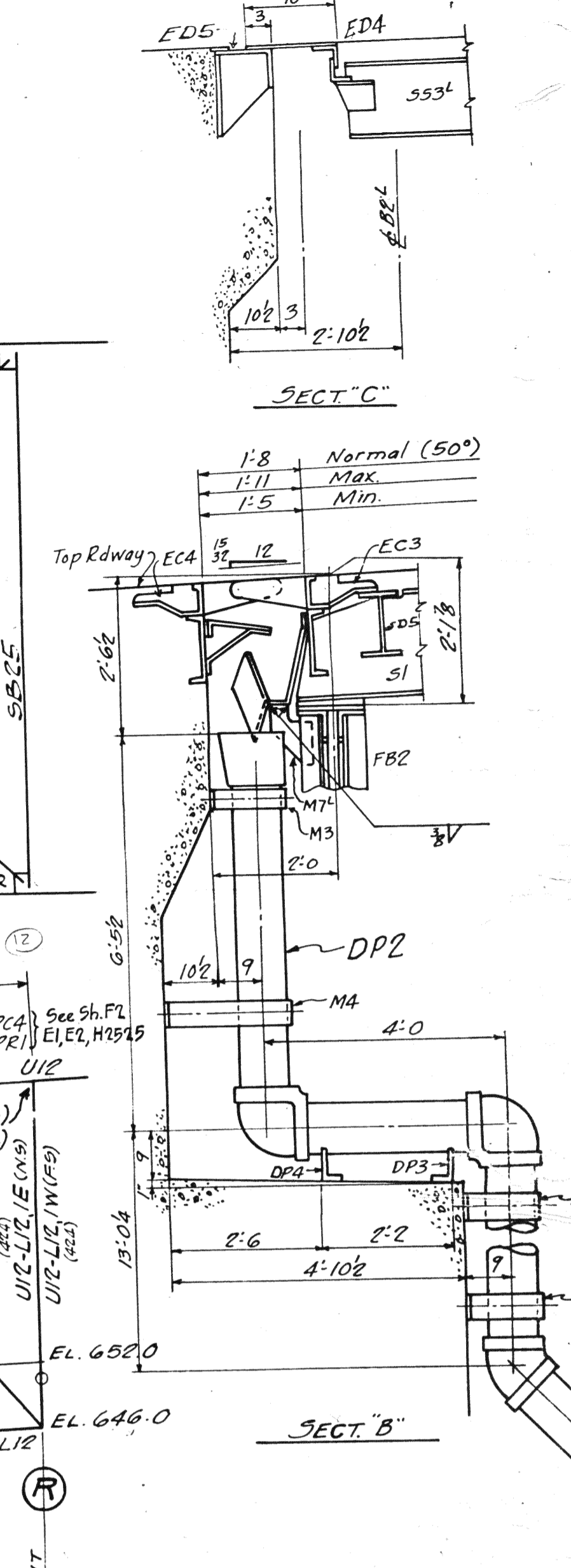
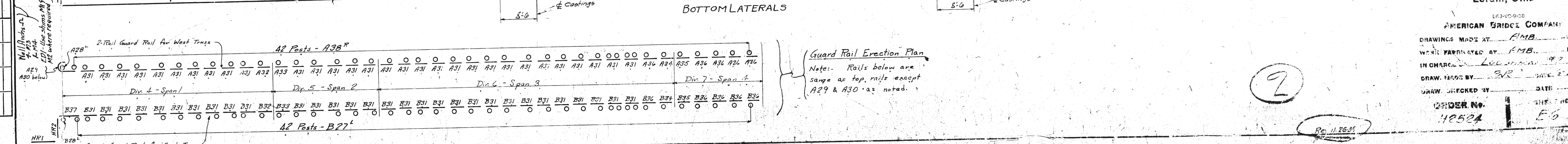
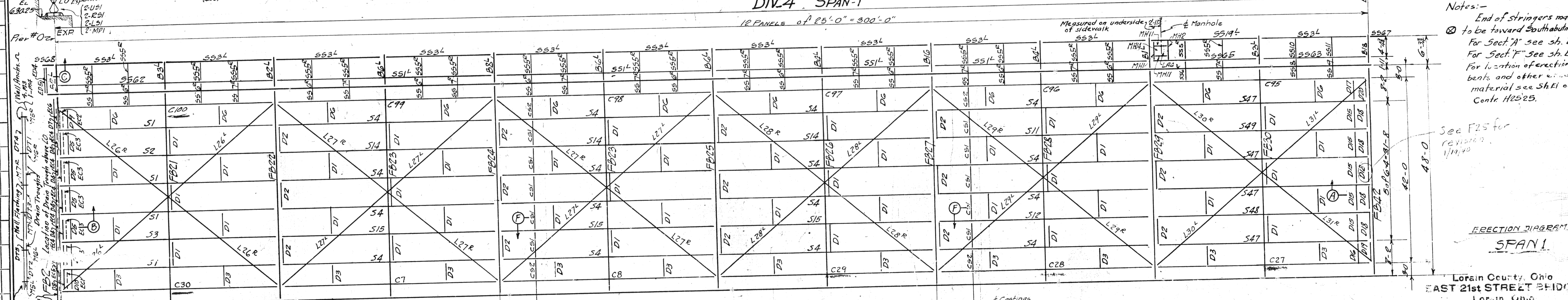
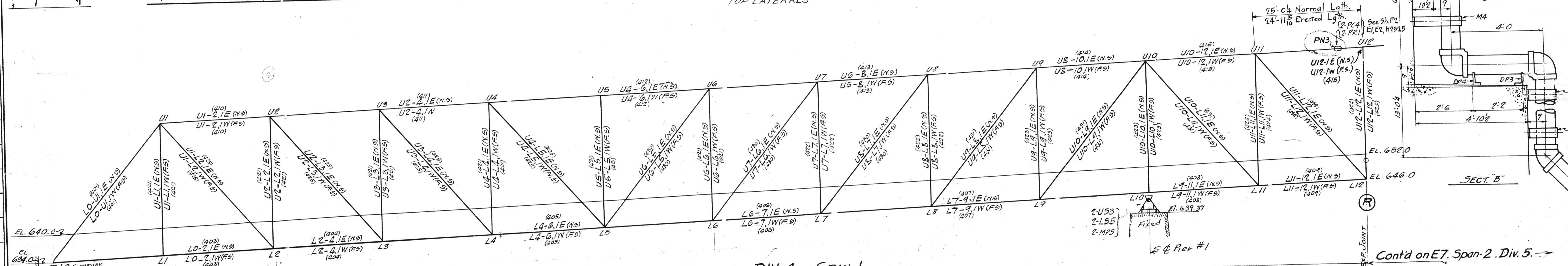
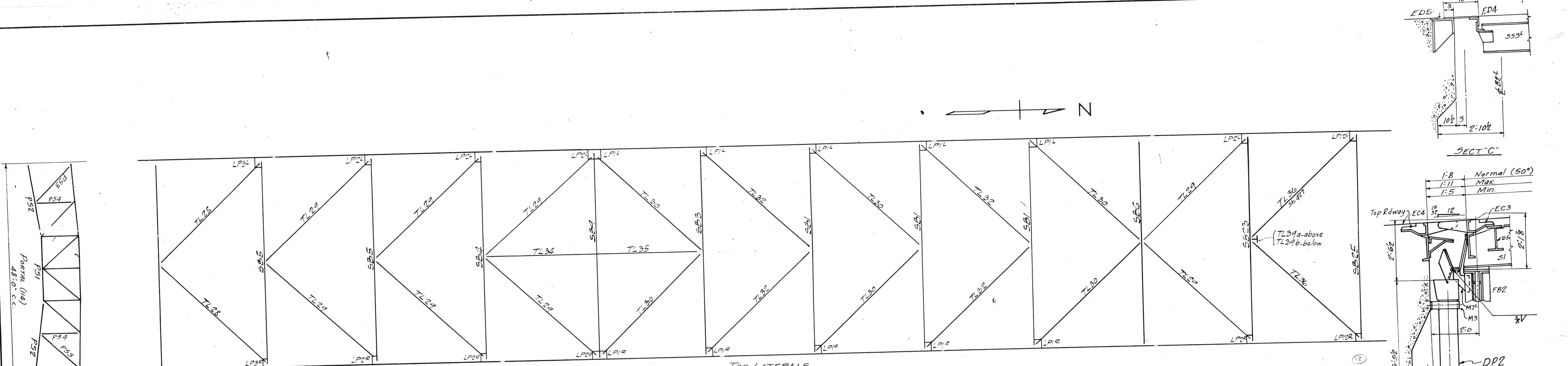
NOTE:
 Work sheets E3, E4 & E5 together.
 For Sections AA, BB, DD, EE, FF, GG, JJ, see sh. E5.
 For clearance dimensions at Verticals "L" and
 Diagonals "D" see Tables on sh. E5.
 For Enlarged Plan of Holes "A" see sh. E5.

MATERIAL: O. H. Steel A.S.T.M. A7-36
 Copper bearing 0.20 min. copper content
 SPECIFICATIONS: Special by Willbur
 Watson & Associates also Ohio State
 Highway
 INSPECTION: James H. Herron Co.
 ERECTION: A. B. Co.

Lorain County, Ohio
EAST 21st STREET BRIDGE
 Lorain, Ohio

D63-24-10-38
AMERICAN BRIDGE COMPANY.
 DRAWINGS MADE AT AMBERIDGE PLANT
 WORK FABRICATED By others
 IN CHARGE OF Loughman McE
 DRAW. MADE BY ALH DATE 8-28-37
 DRAW. CHECKED BY ECM DATE 7-12-37
 ORDER NO. H2529 SHEET NO. E3

BOLTS		RIVETS		BOLTS		RIVETS		BOLTS		RIVETS		BOLTS		RIVETS	
Dim.	Head	Dim.	Head	Dim.	Head	Dim.	Head	Dim.	Head	Dim.	Head	Dim.	Head	Dim.	Head



Notes:-
 End of stringers marked \otimes to be toward South abutment.
 For Sect. 'A' see sh. E7
 For Sect. 'F' see sh. E2
 For location of erection
 bolts and other
 material see Sh. E1 on
 Cont'd H2525.

See P25 for
 revision
 1/19/70

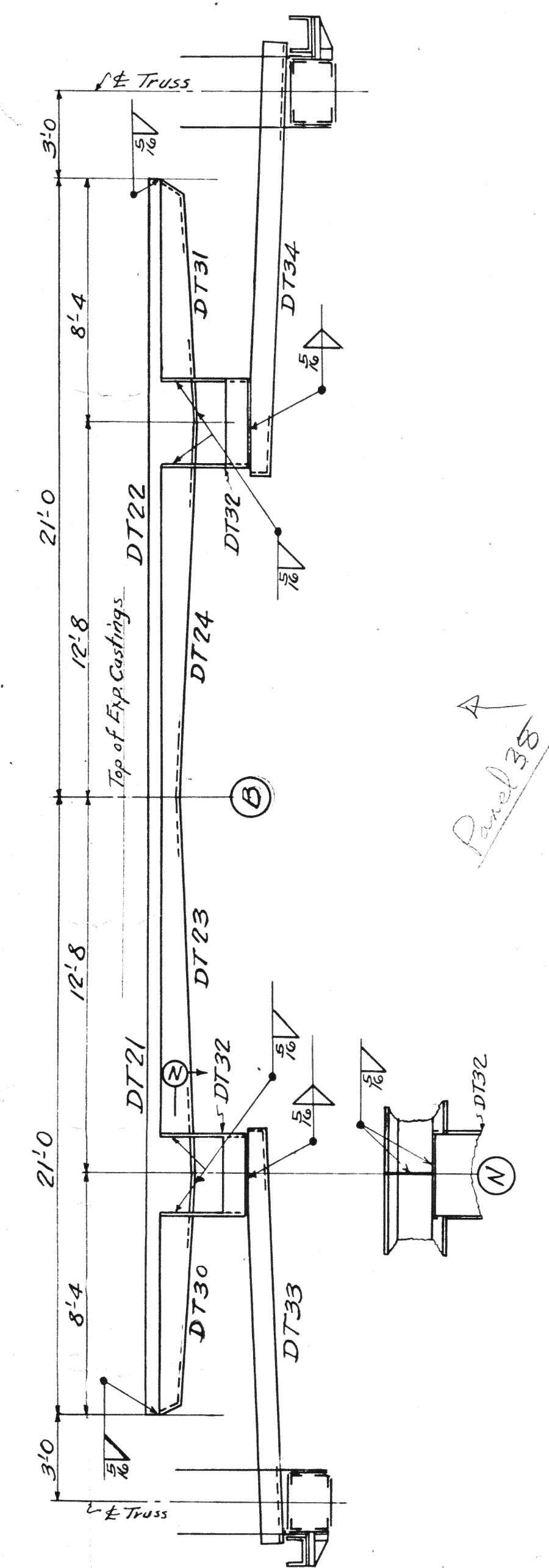
ERECTOR DIAGRAM
 SPAN 1

Lorain County, Ohio
 EAST 21ST STREET BRIDGE
 Lorain, Ohio

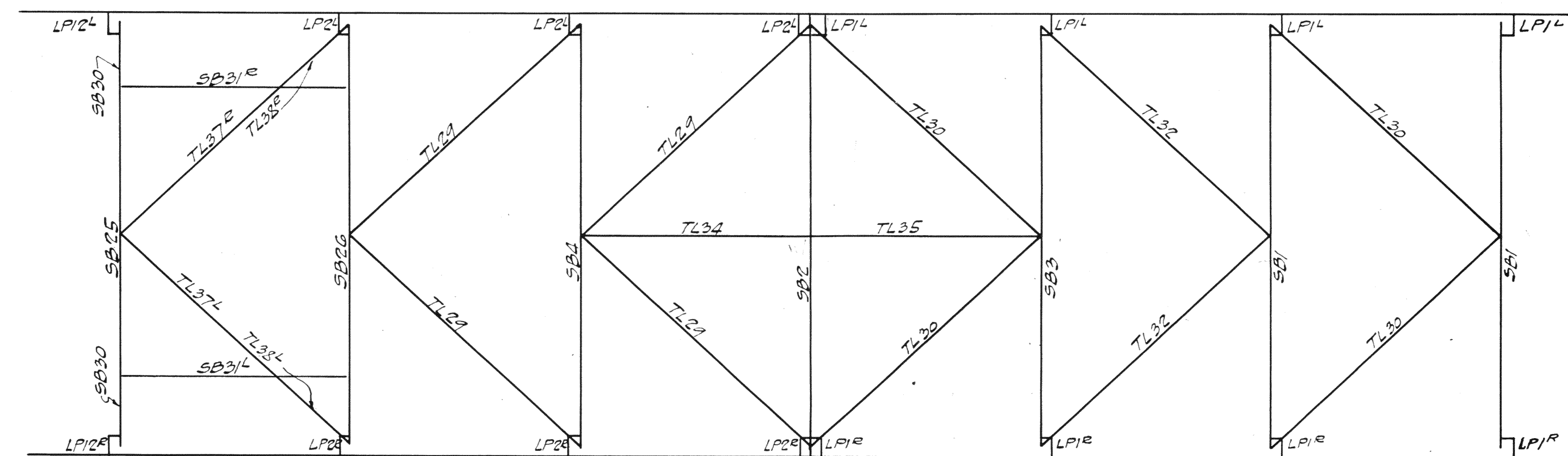
AMERICAN BRIDGE COMPANY
 DRAWINGS MADE AT F.M.B.
 WORK FABRICATED AT F.M.B. PLANT
 IN CHARGE L. C. ...
 DRAWN BY ...
 CHECKED BY ...
 DATE ...

ORDER NO. 42524
 SHEET NO. E6

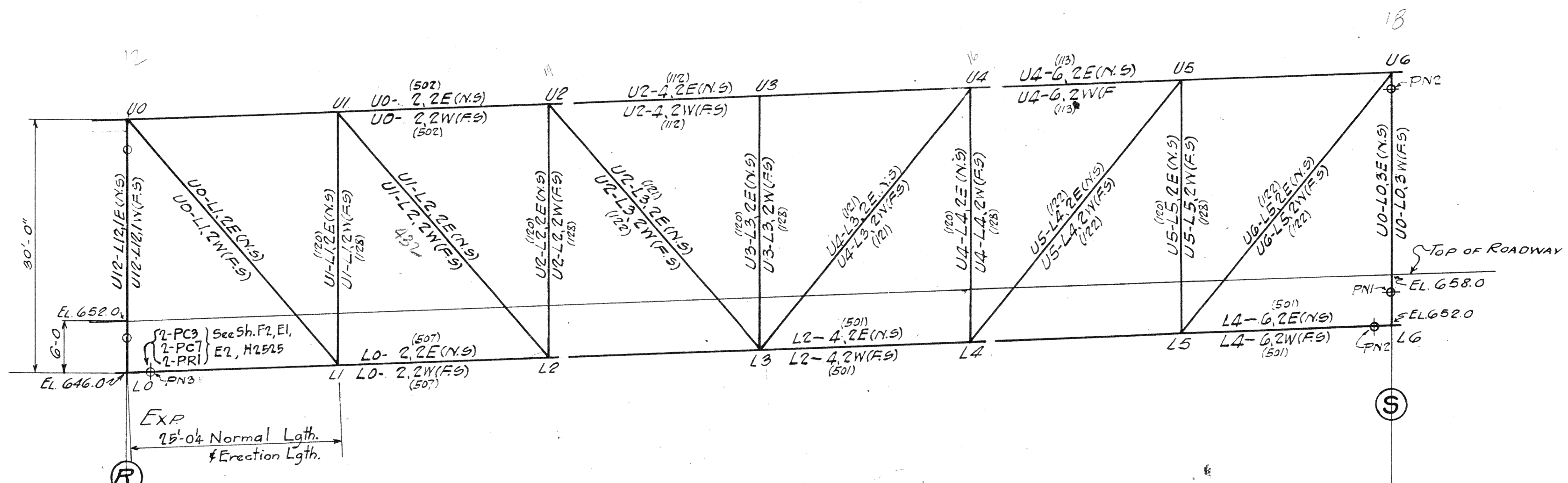
BOLTS		RIVETS		BOLTS		RIVETS		BOLTS		RIVETS	
Qty	Spec	Qty	Spec	Qty	Spec	Qty	Spec	Qty	Spec	Qty	Spec



Panel 35



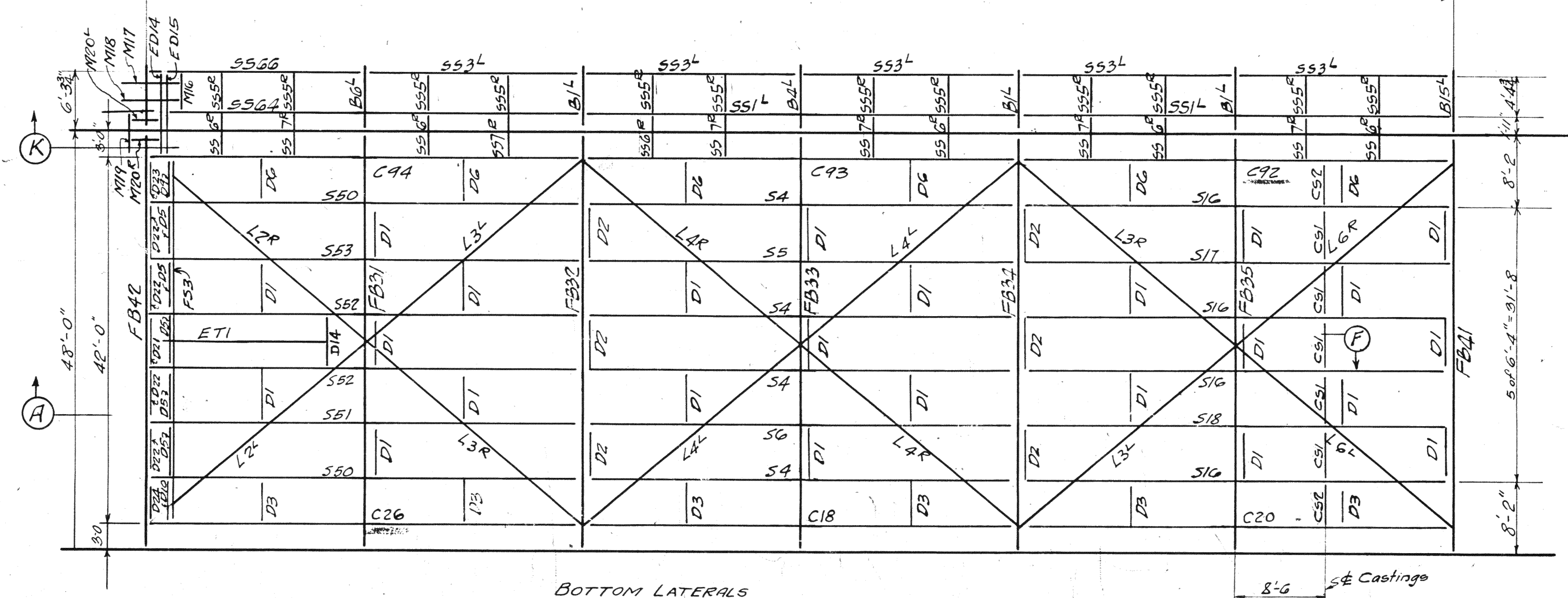
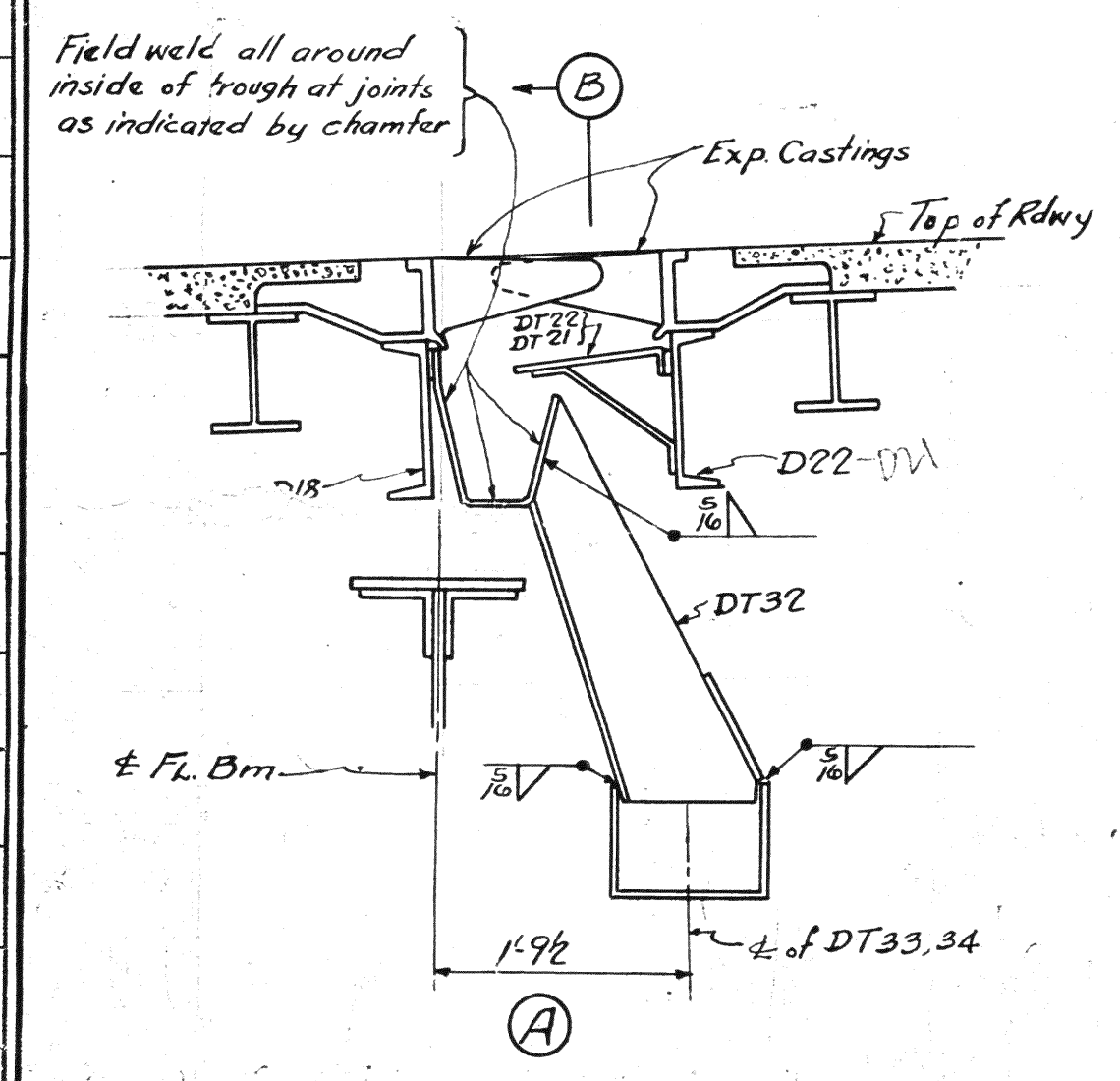
TOP LATERALS



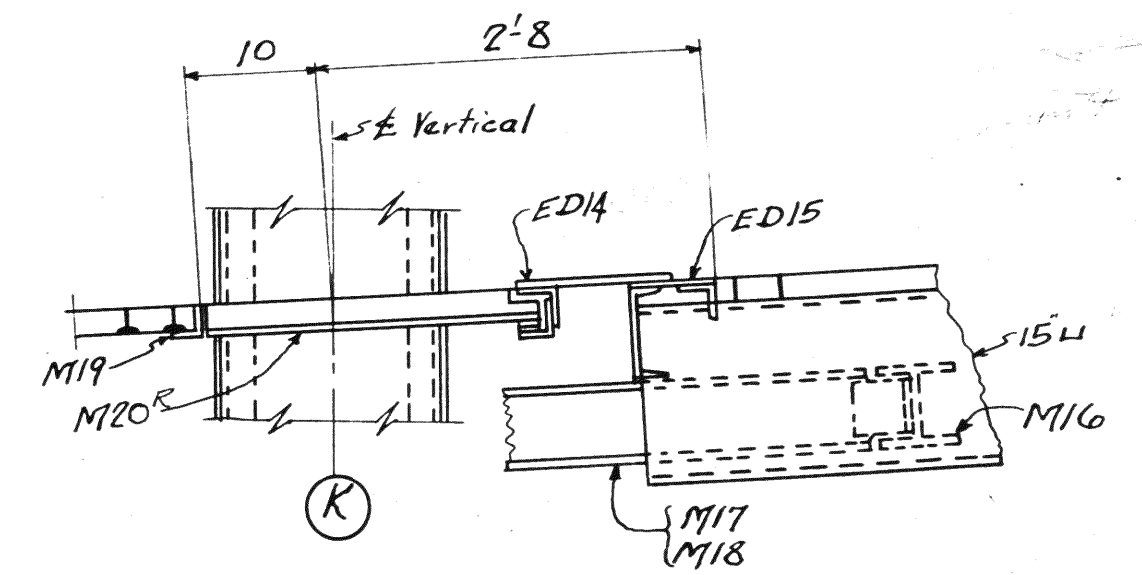
DIV-5 SPAN-2

Cont'd on E6 Span 1 Div 4

Cont'd on E8 Span 3 Div 6



BOTTOM LATERALS



Notes:-
 End of stringers marked (X) to be forward South abutment.
 For location of erection bents and other erection material see Sh. E1-Cont'd H257.
 For Sect. 'F' see Sh. E2

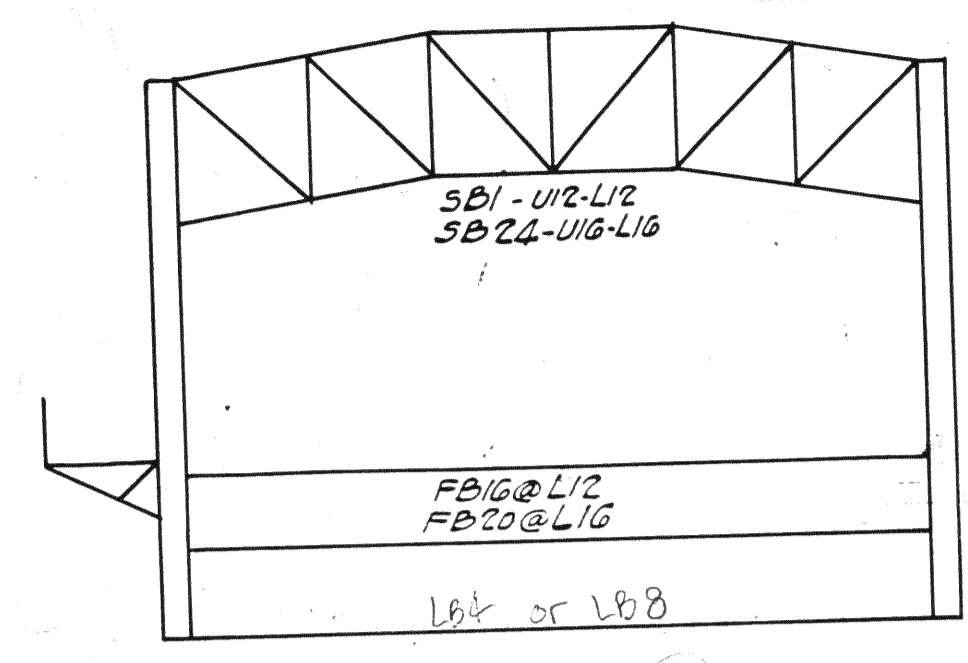
ERECTION DIAGRAM
 SPAN 2

Lorain County, Oh
 EAST 21st STREET BR
 Lorain, Ohio

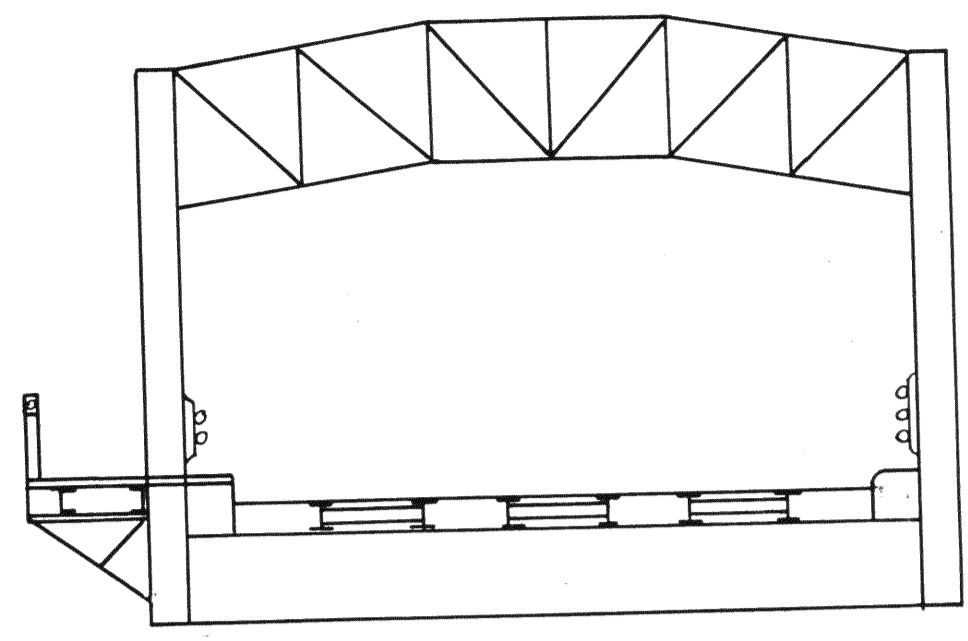
AMERICAN BRIDGE COMP
 DRAWINGS MADE AT...
 WORK FABRICATED AT...
 IN CHARGE OF...
 DRAWN BY...
 DRAWN CHECKED BY...

ORDER No.
 H2524

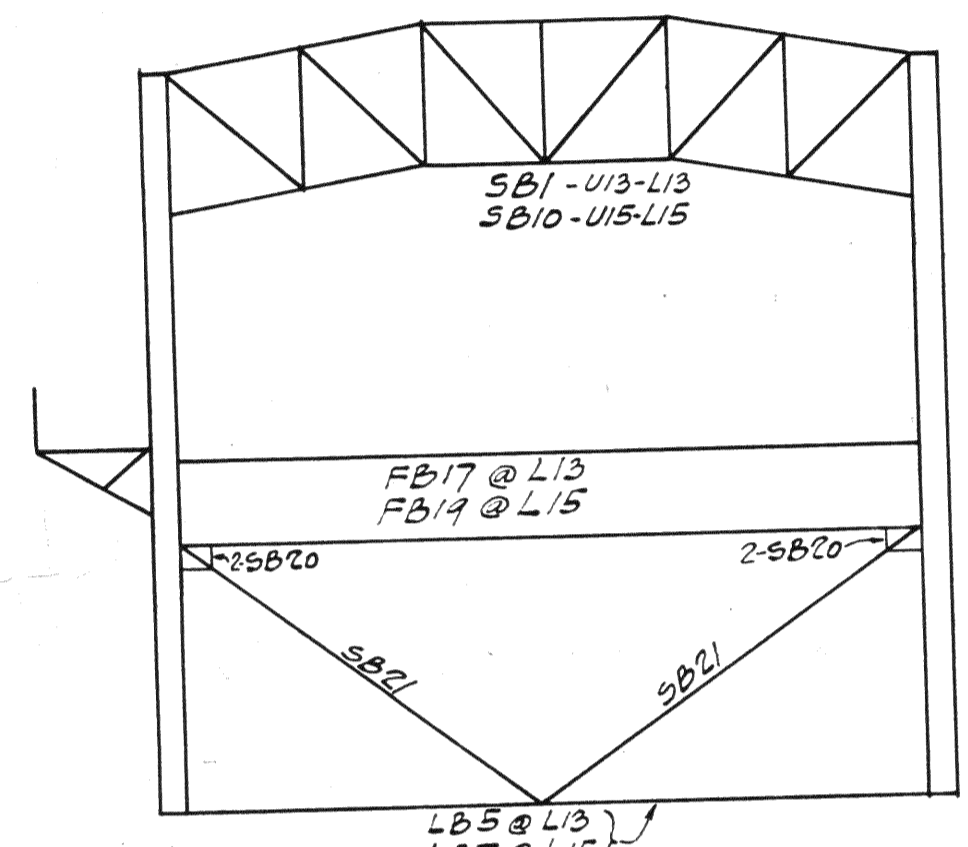
BOLTS		RIVETS		RIVETS		RIVETS		RIVETS	
Qty	Size	Qty	Size	Qty	Size	Qty	Size	Qty	Size



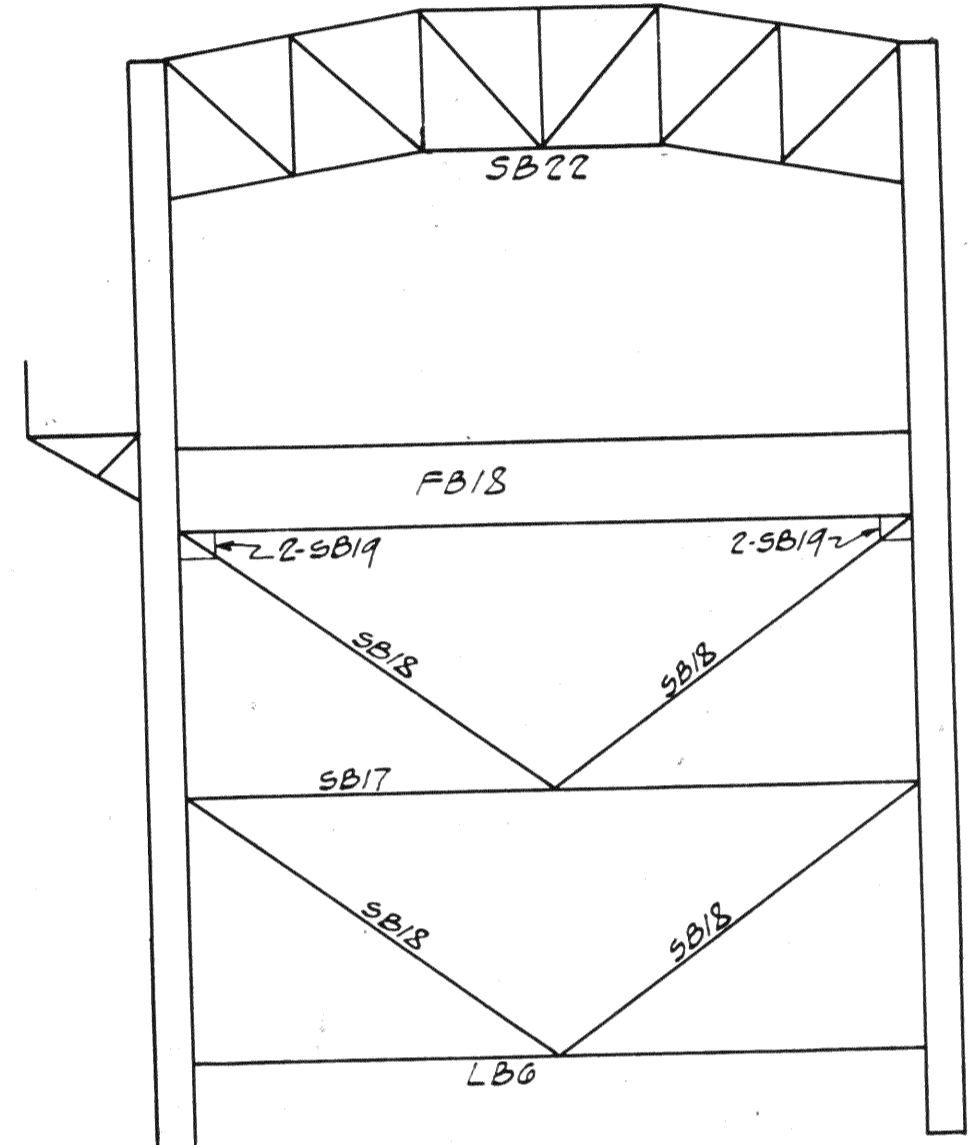
PANELS U12, L12, -U16, L16



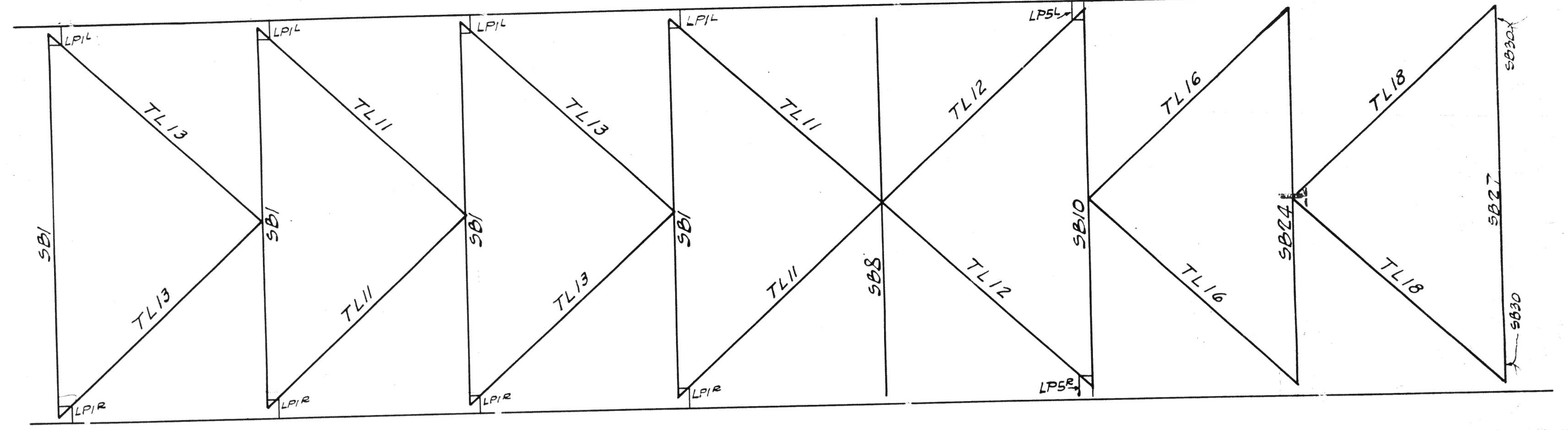
TYPICAL SECTION
SWAY BRACING



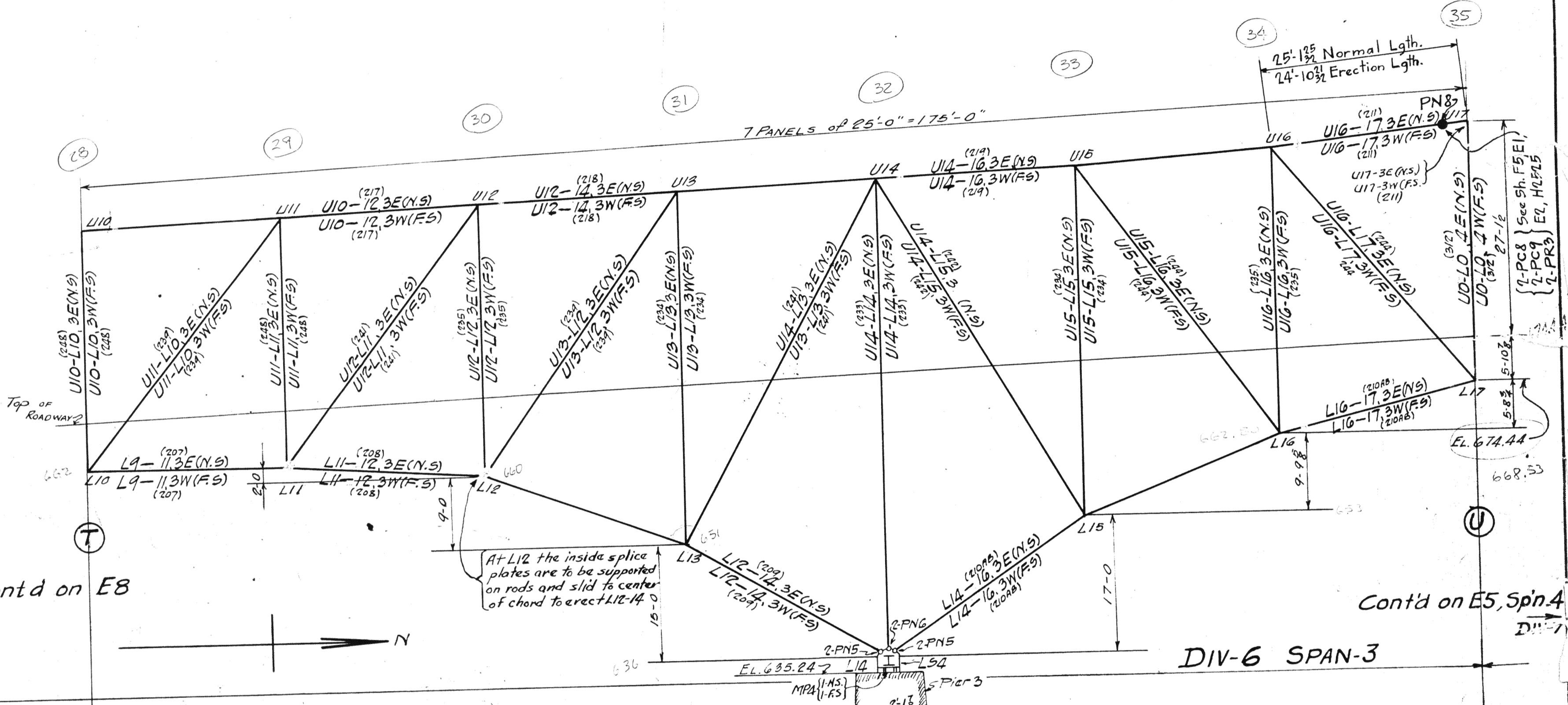
PANELS U13, L13, U15, L15



PANEL U14-L14

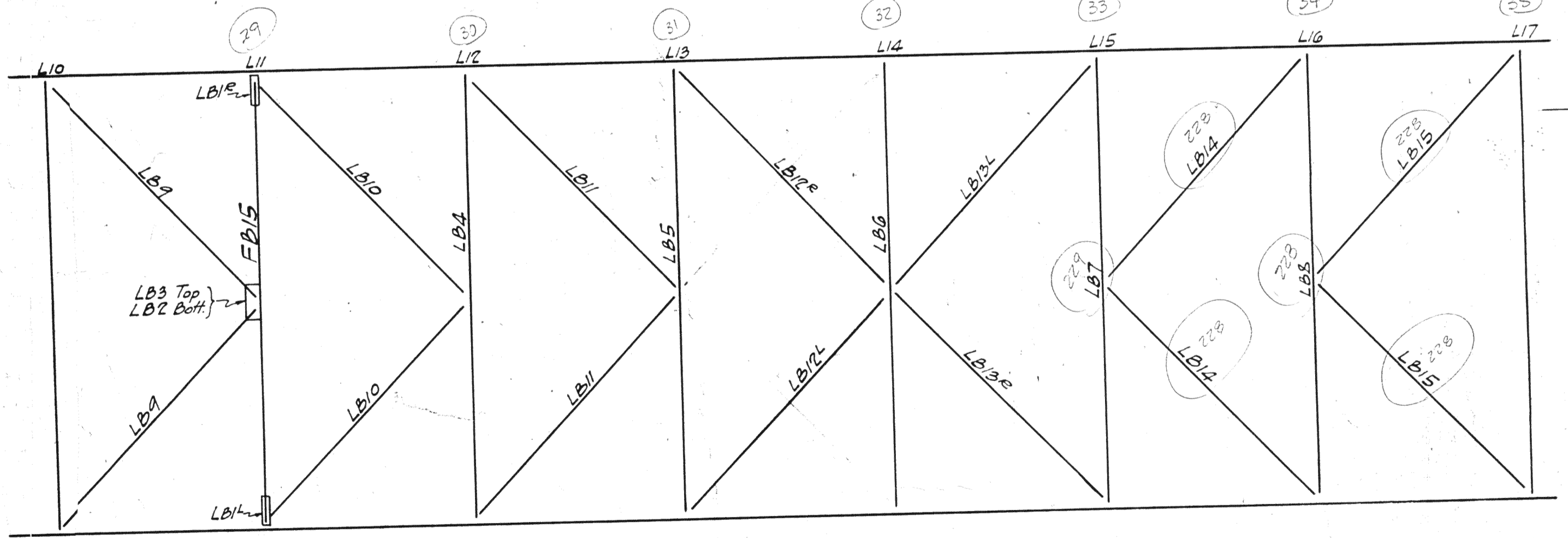


TOP LATERALS

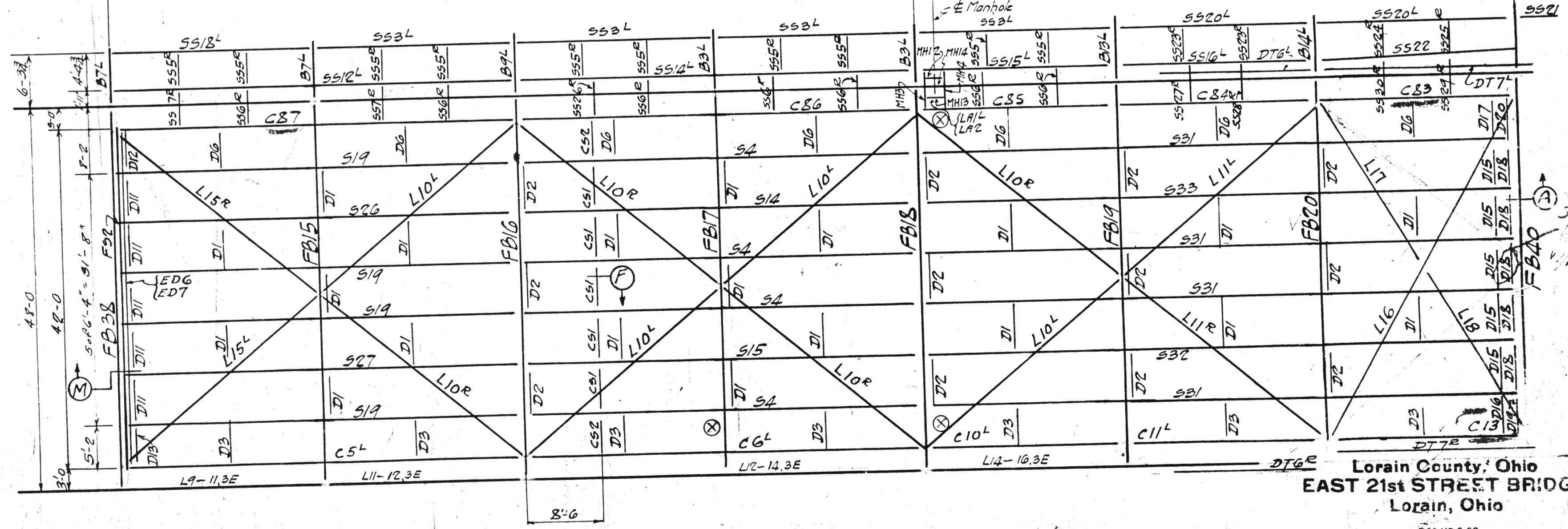


← Contd on E8

Cont'd on E5, Spn. 4



PLAN OF LOWER LATERAL BRACING IN PANELS L10 TO L17 INC.



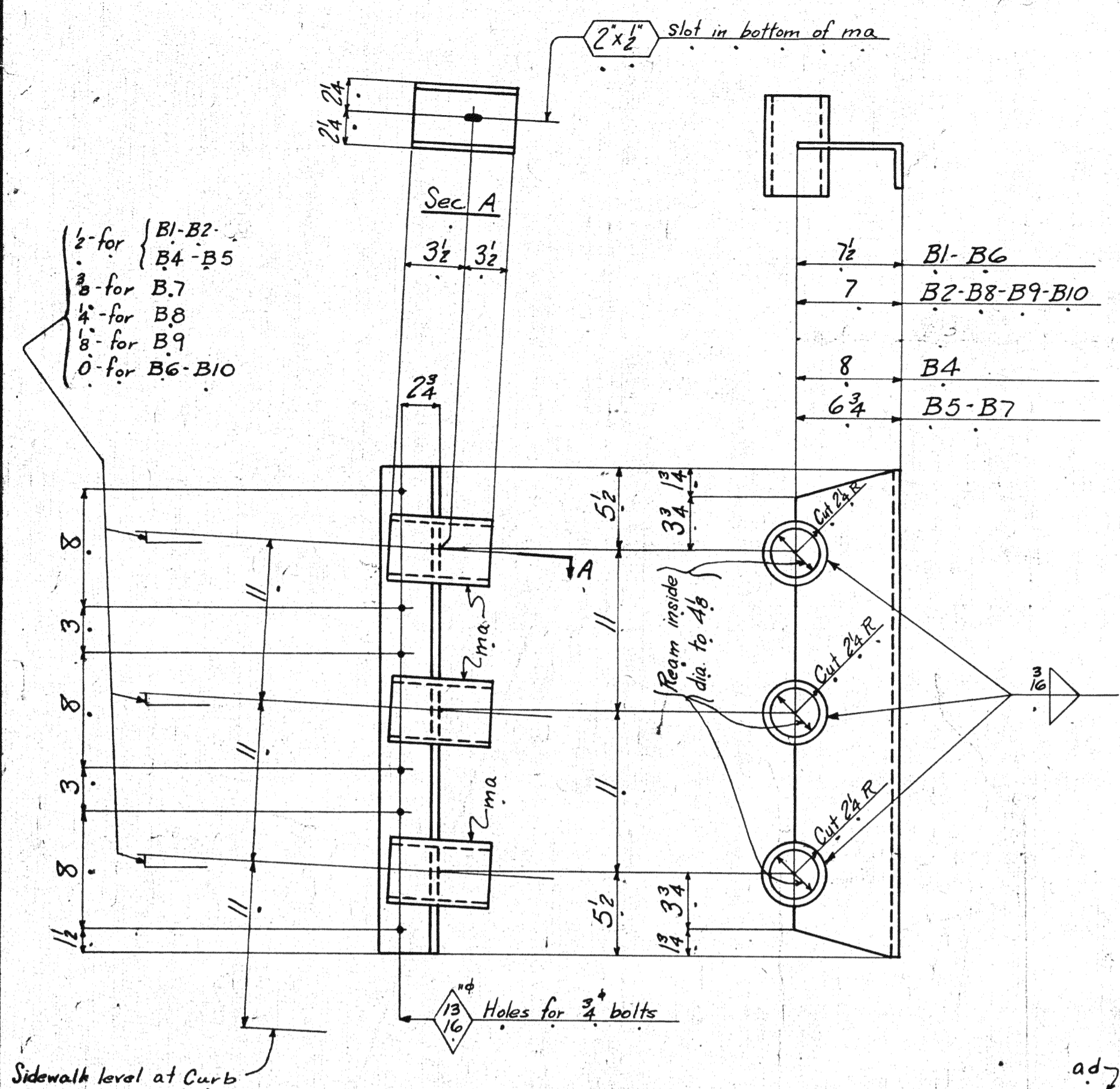
FLOOR PLAN & BOTTOM LATERALS

ERECTION DIAGRAM
SPAN 3 - L10 TO L17

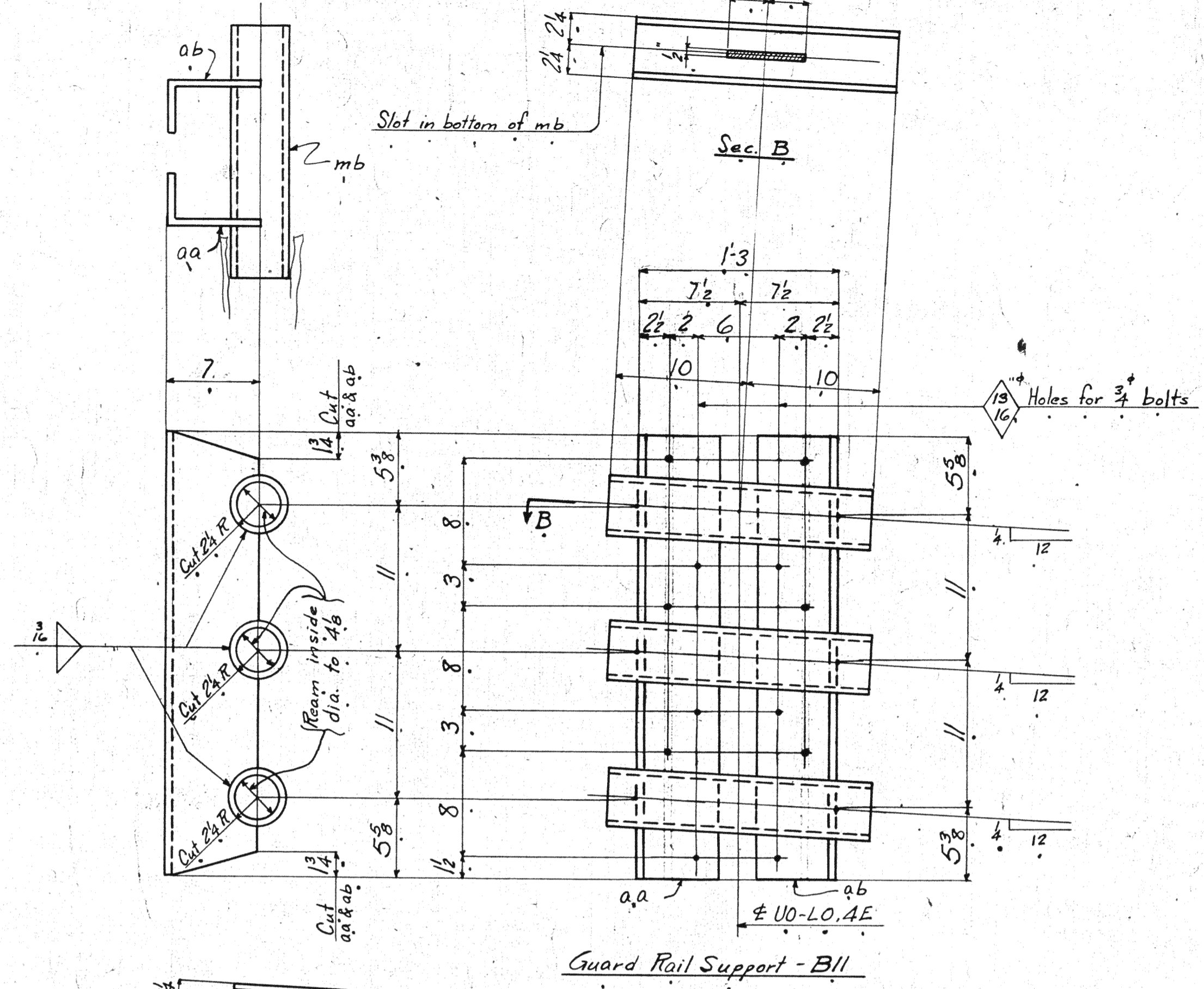
NOTE:
Ends of stringers marked ⊗ to be toward South abutment.
For location of erection bents and other erection material see Sh. E1 - Cont. H2525
For Sect. 'F' see Sh. E2
For Sect. 'A' see Sh. E7
For Sect. 'M' see Sh. E8

Lorain County, Ohio
EAST 21st STREET BRIDGE,
Lorain, Ohio

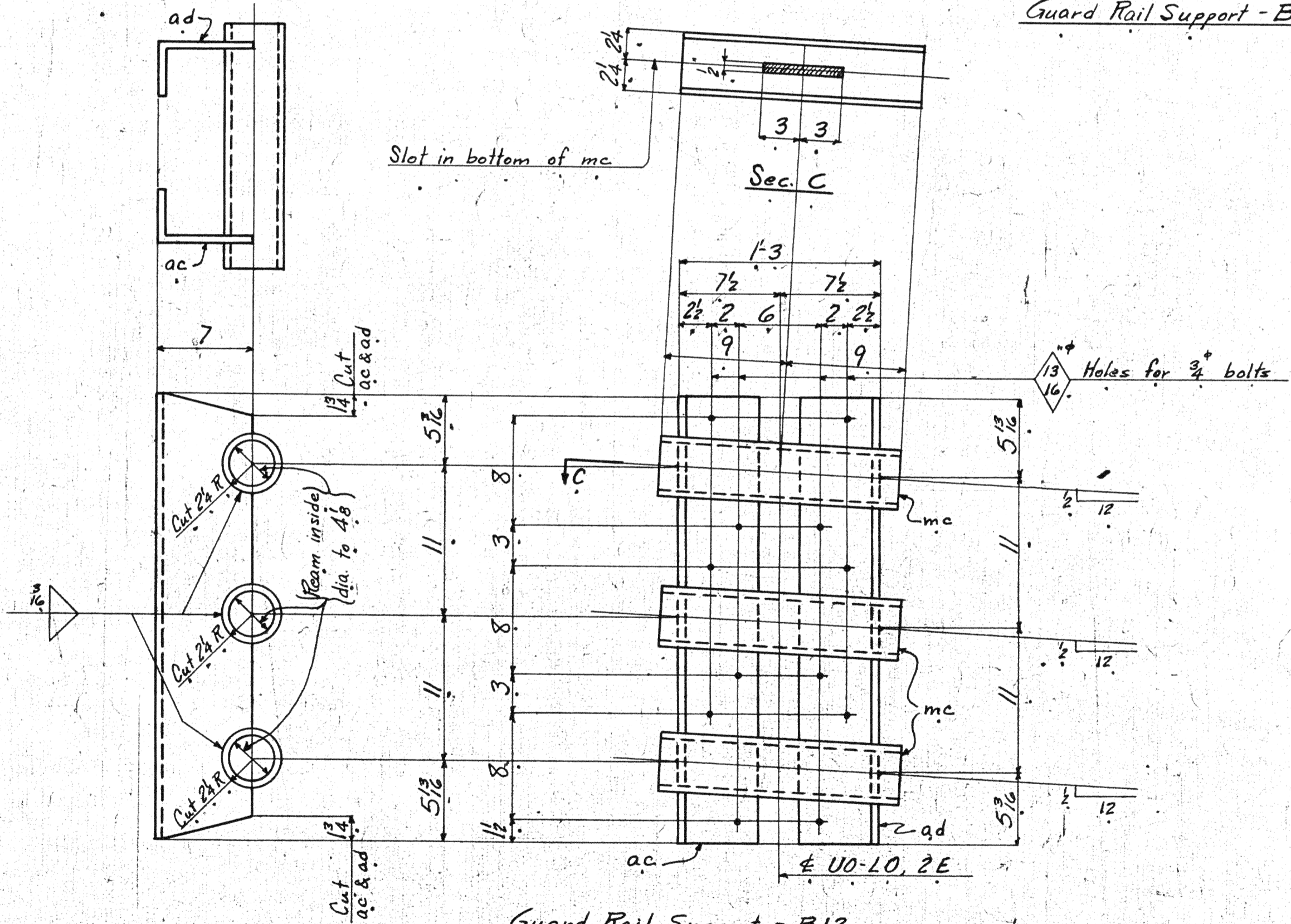
AMERICAN BRIDGE COMPANY.
DRAWINGS MADE AT AMBRIDGE, PA.
WORK FABRICATED AT AMBRIDGE, PA.
IN CHARGE OF Loughman
DRAWN BY REX DATE 12/25/25
CHECKED BY DATE
ORDER NO. H2524 SHEET 1



Guard Rail Supports - B1^R B2^R B4^R B5^R B6^R B7^R B8^R B9^R B10



Guard Rail Support - B11



Guard Rail Support - B12

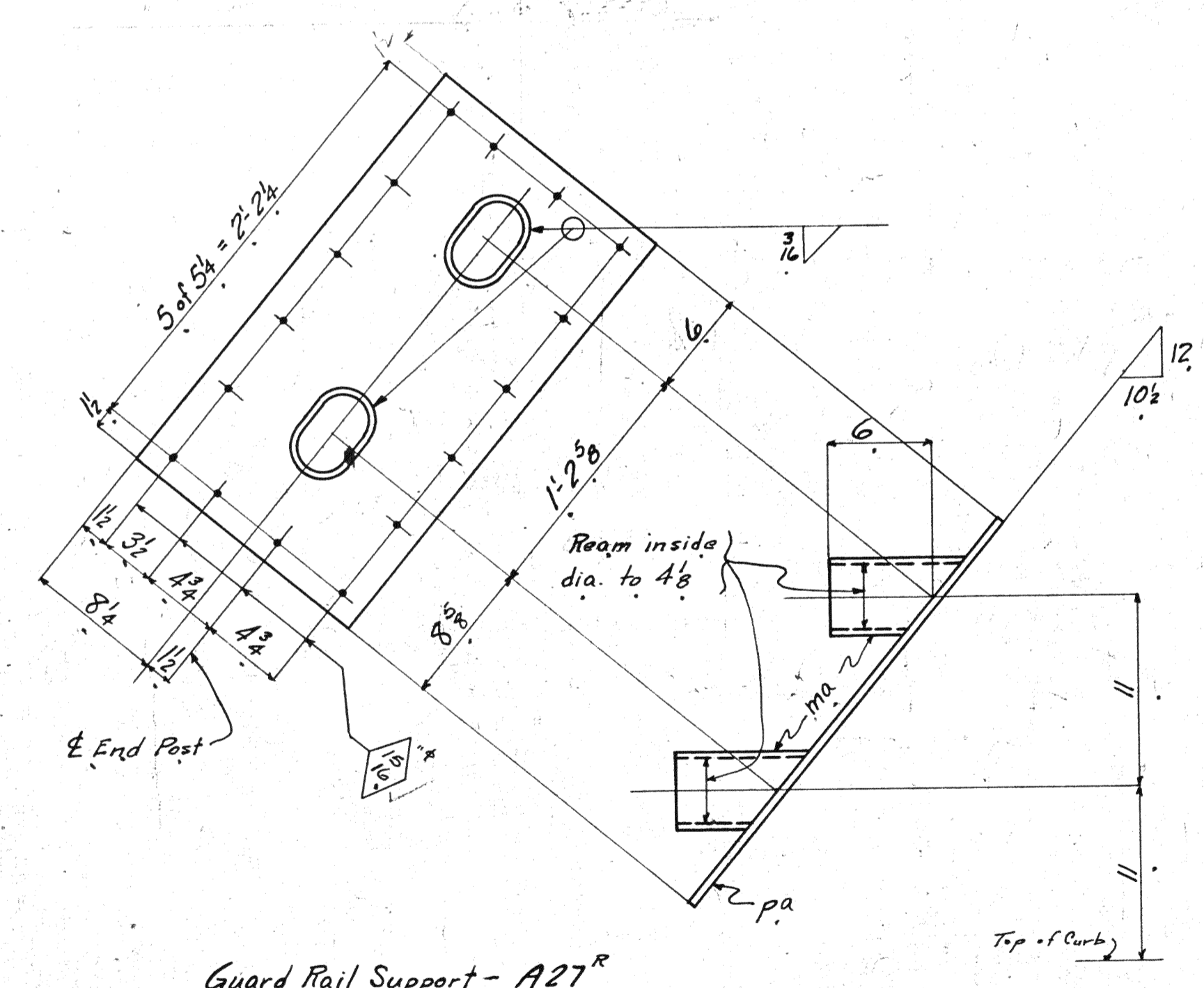
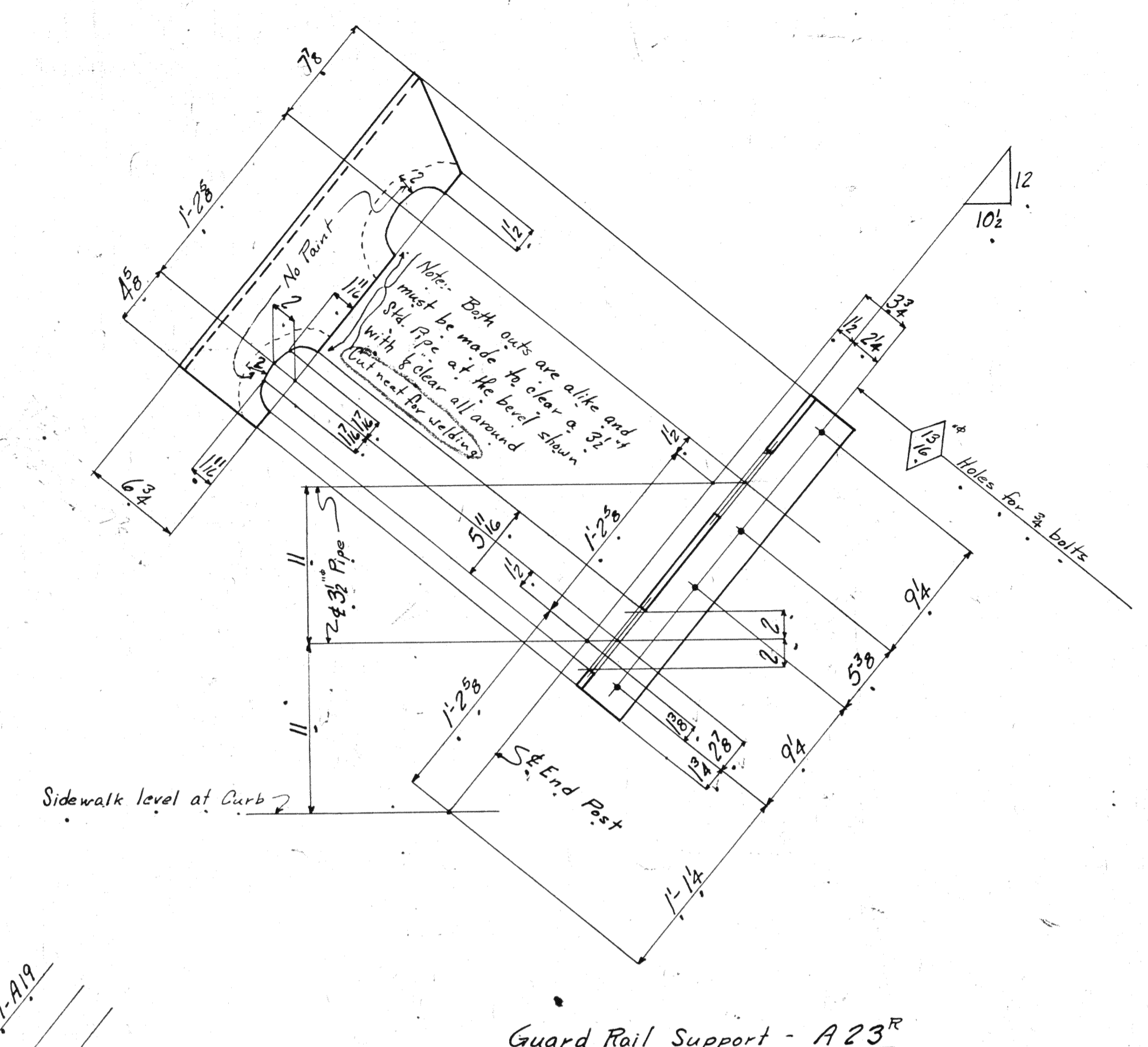
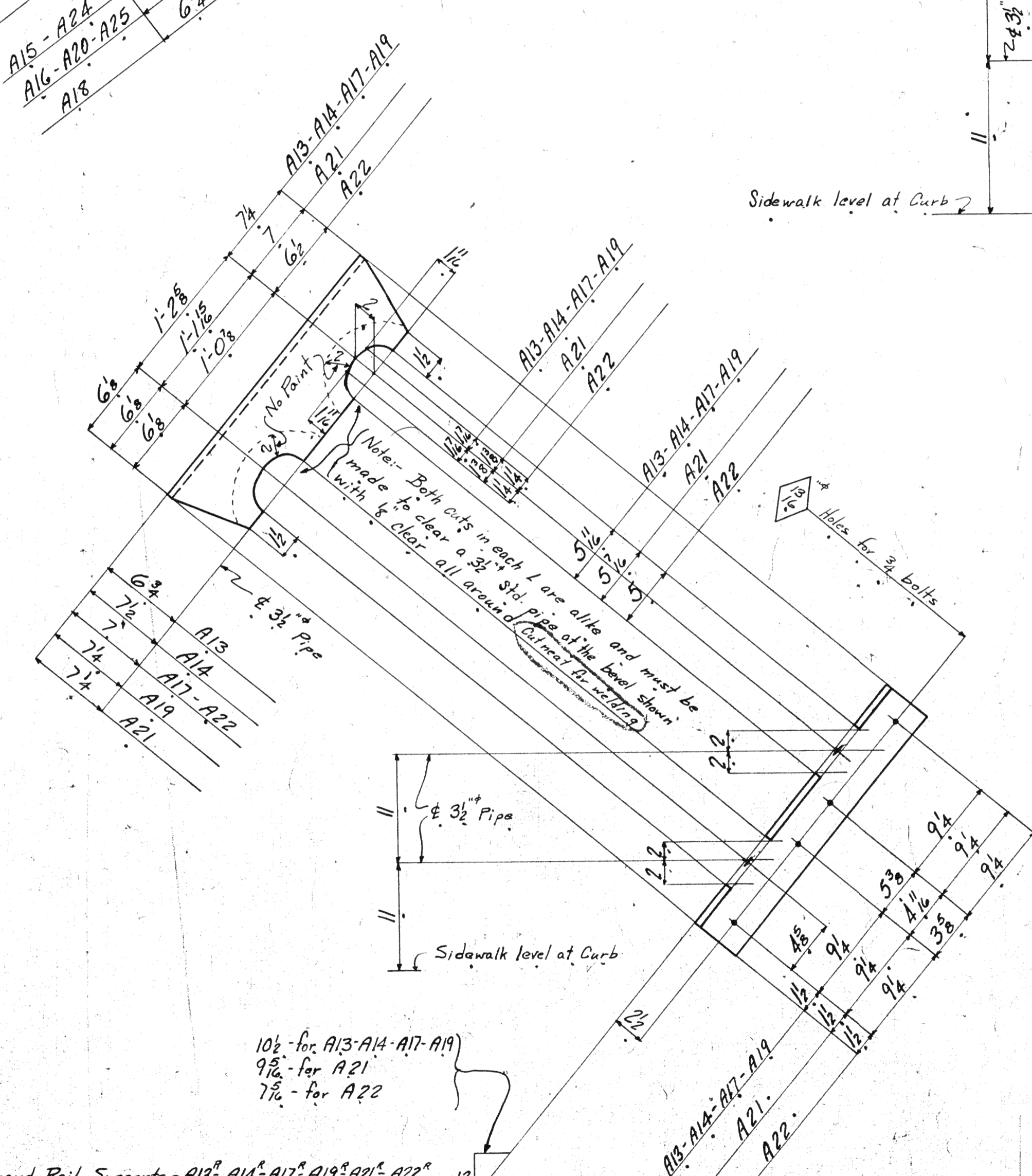
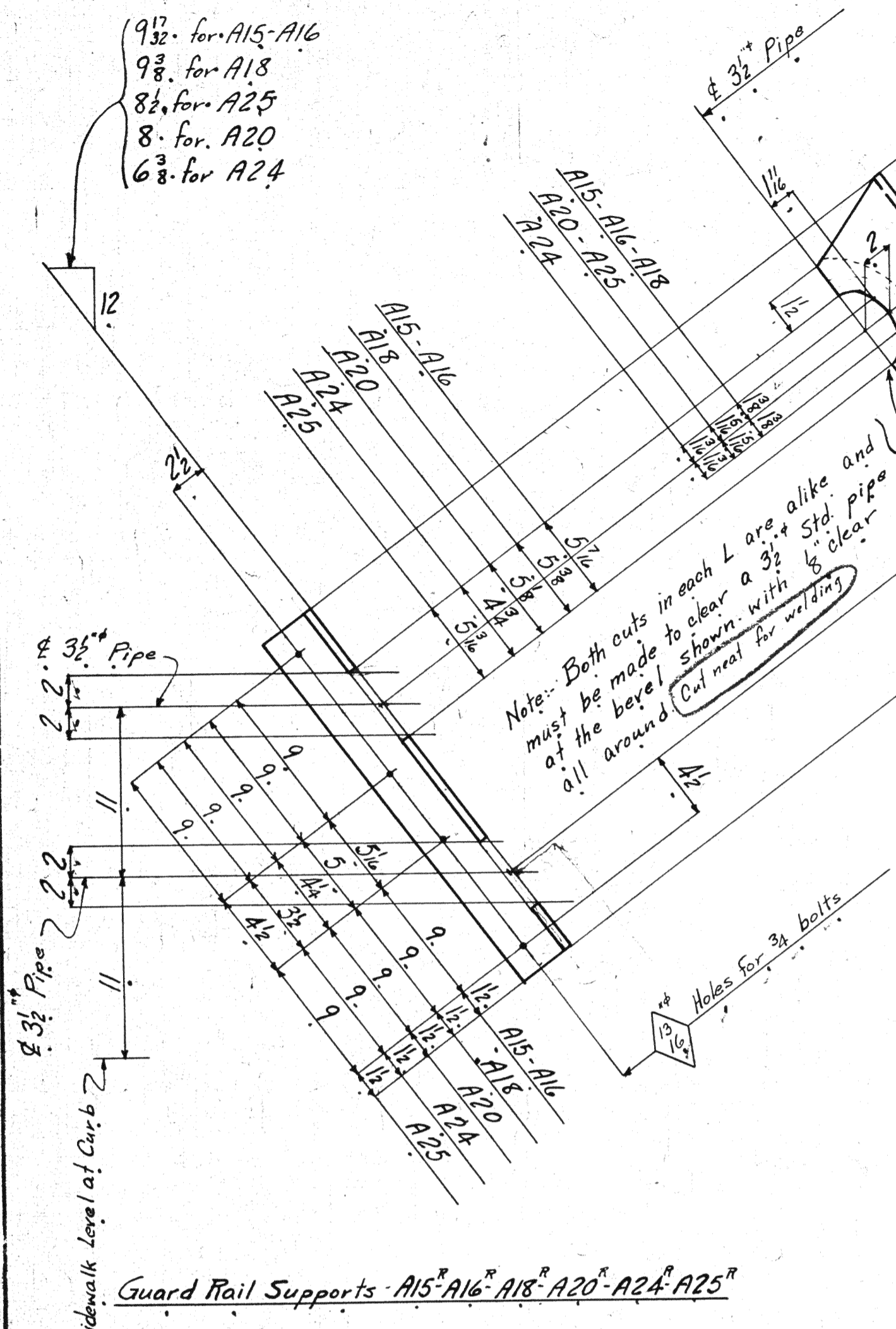
Table for Shop Assembling and Shipping

Mark	Division							Ship on H2524		
	1.	2.	3.	4.	5.	6.	7.	No.	Mark	Sh. No.
B1 ^R					6.			1.	U1-L1, 1E.	421
								1.	U2-L2, 1E.	421
								1.	U3-L3, 1E.	421
								1.	U4-L4, 1E.	421
								1.	U5-L5, 1E.	421
B2 ^R					1.			1.	U6-L6, 1E.	421
B1 ^R						5.		1.	U11-L11, 1E.	424
								1.	U1-L1, 2E.	120
								1.	U2-L2, 2E.	120
								1.	U3-L3, 2E.	120
								1.	U4-L4, 2E.	120
B1 ^R							5.	1.	U5-L5, 2E.	120
								1.	U6-L6, 3E.	249
								1.	U7-L7, 3E.	249
								1.	U8-L8, 3E.	249
								1.	U9-L9, 3E.	249
B1 ^L								1.	U1-L1, 6E.	120
								1.	U2-L2, 6E.	120
								1.	U3-L3, 6E.	120
								1.	U4-L4, 6E.	120
								1.	U5-L5, 6E.	120
B1 ^L							5.	1.	U5-L5, 5E.	249
								1.	U6-L6, 5E.	249
								1.	U7-L7, 5E.	249
								1.	U8-L8, 5E.	249
								1.	U9-L9, 5E.	249
B2 ^R						3.		1.	U7-L7, 1E.	422
B2 ^R								1.	U8-L8, 1E.	422
								1.	U9-L9, 1E.	422
								1.	U10-L10, 3E.	250
								1.	U1-L1, 3E.	250
								1.	U2-L2, 3E.	250
B2 ^R								1.	U3-L3, 3E.	252
								1.	U4-L4, 3E.	252
								1.	U11-L11, 3E.	248
								1.	U12-L12, 3E.	250
								1.	U13-L13, 3E.	254
B2 ^L							7.	1.	U1-L1, 5E.	250
								1.	U3-L3, 5E.	252
								1.	U4-L4, 5E.	252
								1.	U10-L10, 5E.	248
								1.	U11-L11, 5E.	248
B2 ^L							1.	1.	U12-L12, 5E.	252
B2 ^L								1.	U13-L13, 5E.	254
B2 ^L								1.	U10-L10, 5E.	250
B4 ^R						1.		1.	U10-L10, 1E.	250
B4 ^R							1.	1.	U2-L2, 3E.	250
B4 ^R							1.	1.	U2-L2, 5E.	250
B5 ^R							1.	1.	U14-L14, 3E.	250
B5 ^L							1.	1.	U14-L14, 3E.	250
B6.							1.	1.	U5-L5, 4E.	312
B7 ^R							2.	1.	U15-L15, 3E.	254
B7 ^R								1.	U16-L16, 3E.	285
B8 ^L							1.	1.	U10-L10, 4E.	312
B7 ^L							2.	1.	U15-L15, 5E.	254
B8 ^R								1.	U16-L16, 5E.	254
B8 ^L								1.	U1-L1, 4E.	311
B9 ^R								1.	U9-L9, 4E.	311
B9 ^R								2.	U2-L2, 4E.	311
B9 ^R								1.	U3-L3, 4E.	311
B9 ^L							2.	1.	U8-L8, 4E.	311
B9 ^L								1.	U7-L7, 4E.	311
B10.								1.	U4-L4, 4E.	311
B10.							1.	1.	U6-L6, 4E.	311
B11.								1.	U10-L10, 4E.	312
B12.							1.	1.	U12-L12, 7E.	424

NOTE: Guard Rail Supports revised, as called for on sh. P3, and marked thus +, are to be assembled on Verticals listed on lines marked +.

LINE	Total No. of Pieces on Order	MATERIAL	ASSEMBLING MARK	REMARKS	CALCULATED WEIGHT FOR ONE SHIP. PIECE	ORDERED	ITEM	LINE	Total No. of Pieces on Order	MATERIAL	ASSEMBLING MARK	REMARKS	CALCULATED WEIGHT FOR ONE SHIP. PIECE	ORDERED	ITEM	LINE	Total No. of Pieces on Order	MATERIAL	ASSEMBLING MARK	REMARKS	CALCULATED WEIGHT FOR ONE SHIP. PIECE	ORDERED	ITEM
16	1	L 7 1/2 x 4 1/8	ma	1-B1 ^R	3.2	1	16	1	L 7 1/2 x 4 1/8	ma	1-B6	3.2	1	16	1	1	L 7 1/2 x 4 1/8	ma	1-B6	3.2	1	16	1
17	1	S 4 x 4	ma	1-B1 ^R	3.2	1	17	1	S 4 x 4	ma	1-B6	3.2	1	17	1	1	S 4 x 4	ma	1-B6	3.2	1	17	1
18	1	L 7 1/2 x 4 1/8	ma	1-B2 ^R	3.2	1	18	1	L 7 1/2 x 4 1/8	ma	1-B6	3.2	1	18	1	1	L 7 1/2 x 4 1/8	ma	1-B6	3.2	1	18	1
19	1	L 6 3/4 x 4 1/8	ma	1-B2 ^R	3.2	1	19	1	L 6 3/4 x 4 1/8	ma	1-B6	3.2	1	19	1	1	L 6 3/4 x 4 1/8	ma	1-B6	3.2	1	19	1
20	1	L 7 1/2 x 4 1/8	ma	1-B2 ^R	3.2	1	20	1	L 7 1/2 x 4 1/8	ma	1-B6	3.2	1	20	1	1	L 7 1/2 x 4 1/8	ma	1-B6	3.2	1	20	1
21	1	L 7 1/2 x 4 1/8	ma	1-B2 ^R	3.2	1	21	1	L 7 1/2 x 4 1/8	ma	1-B6	3.2	1	21	1	1	L 7 1/2 x 4 1/8	ma	1-B6	3.2	1	21	1
22	1	L 7 1/2 x 4 1/8	ma	1-B2 ^R	3.2	1	22	1	L 7 1/2 x 4 1/8	ma	1-B6	3.2	1	22	1	1	L 7 1/2 x 4 1/8	ma	1-B6	3.2	1	22	1
23	1	L 7 1/2 x 4 1/8	ma	1-B2 ^R	3.2	1	23	1	L 7 1/2 x 4 1/8	ma	1-B6	3.2	1	23	1	1	L 7 1/2 x 4 1/8	ma	1-B6	3.2	1	23	1
24	1	L 7 1/2 x 4 1/8	ma	1-B2 ^R	3.2	1	24	1	L 7 1/2 x 4 1/8	ma	1-B6	3.2	1	24	1	1	L 7 1/2 x 4 1/8	ma	1-B6	3.2	1	24	1
25	1	L 7 1/2 x 4 1/8	ma	1-B2 ^R	3.2	1	25	1	L 7 1/2 x 4 1/8	ma	1-B6	3.2	1	25	1	1	L 7 1/2 x 4 1/8	ma	1-B6	3.2	1	25	1
26	1	L 7 1/2 x 4 1/8	ma	1-B2 ^R	3.2	1	26	1	L 7 1/2 x 4 1/8	ma	1-B6	3.2	1	26	1	1	L 7 1/2 x 4 1/8	ma	1-B6	3.2	1	26	1
27	1	L 7 1/2 x 4 1/8	ma	1-B2 ^R	3.2	1	27	1	L 7 1/2 x 4 1/8	ma	1-B6	3.2	1	27	1	1	L 7 1/2 x 4 1/8	ma	1-B6	3.2	1	27	1
28	1	L 7 1/2 x 4 1/8	ma	1-B2 ^R	3.2	1	28	1	L 7 1/2 x 4 1/8	ma	1-B6	3.2	1	28	1	1	L 7 1/2 x 4 1/8	ma	1-B6	3.2	1	28	1
29	1	L 7 1/2 x 4 1/8	ma	1-B2 ^R	3.2	1	29	1	L 7 1/2 x 4 1/8	ma	1-B6	3.2	1	29	1	1	L 7 1/2 x 4 1/8	ma	1-B6	3.2	1	29	1
30	1	L 7 1/2 x 4 1/8	ma	1-B2 ^R	3.2	1	30	1	L 7 1/2 x 4 1/8	ma	1-B6	3.2	1	30	1	1	L 7 1/2 x 4 1/8	ma	1-B6	3.2	1	30	1

MATERIAL: O.H. Steel A.B.T.M. AT-40
 Copper bearing 0.20 mils copper content
 SPECIFICATIONS: Special or Without
 Watson & Associates
 Highway
 INSPECTION: James H. Watson Co.
 ERECTION: A.B.C.
 REBUILT: unless noted
 OPEN HOLES: unless noted
 WARNING: All holes must be filled with
 LORAIN COUNTY, OHIO
 EAST 2nd STREET
 LORAIN, OHIO
 AMERICAN BRIDGE
 DRAWINGS MADE AT: LORAIN, OHIO
 WORK FABRICATED AT: LORAIN, OHIO
 IN CHARGE OF: LORAIN, OHIO
 DRAWN BY: A.B.C.
 ORDER NO. 11252



Mark	Division							Ship on		Order No.	
	1.	2.	3.	4.	5.	6.	7.	No.	Mark		
A13 ^R			3.					1.	U8-L7, 1W	430	
								1.	U9-L8, 1W	431	
								1.	U10-L9, 1W	431	
A13 ^R							1.	1.	U2-L1, 3W	240	
A13 ^R	1.							1.	U2-L1, 5W	240	
A14 ^R			2.					1.	U6-L5, 1W	430	
								1.	U7-L6, 1W	430	
A14 ^R							2.	1.	U9-L8, 3W	240	
								1.	U10-L9, 3W	240	
A14 ^R	2.							1.	U6-L5, 6W	122	
								1.	U5-L4, 2W	122	
A14 ^R								1.	U6-L5, 2W	122	
								1.	U9-L8, 3W	240	
A19 ^R							1.	1.	U11-L10, 3W	239	
A14 ^R	2.							1.	U6-L5, 6W	122	
								1.	U5-L4, 6W	122	
A14 ^R		2.						1.	U9-L8, 5W	240	
A19 ^R	1.							1.	U10-L9, 5W	240	
A15 ^R			2.					1.	U1-L2, 1W	425	
								1.	U2-L3, 1W	425	
A15 ^R							2.	1.	U0-L1, 2W	432	
								1.	U1-L2, 2W	432	
A15 ^R							2.	1.	U4-L5, 3W	242	
								1.	U5-L6, 3W	242	
A15 ^R	1.							1.	U1-L2, 6W	121	
								1.	U4-L5, 5W	242	
A15 ^R		2.						1.	U5-L6, 5W	242	
								1.	U3-L4, 1W	425	
A16 ^R			4.					1.	U4-L5, 1W	425	
								1.	U10-L11, 1W	431	
A16 ^R							1.	1.	U2-L3, 2W	122	
								1.	U3-L4, 3W	243	
A16 ^R							3.	1.	U6-L7, 3W	243	
								1.	U7-L8, 3W	243	
A16 ^R	1.							1.	U2-L3, 6W	122	
								1.	U3-L4, 5W	243	
A16 ^R							3.	1.	U6-L7, 5W	243	
								1.	U7-L8, 5W	243	
A17 ^R							1.	1.	U4-L3, 2W	121	
A17 ^R							1.	1.	U12-L11, 3W	241	
A17 ^R	1.							1.	U4-L3, 6W	121	
A17 ^R		1.						1.	U12-L11, 5W	241	
A18 ^R							2.	1.	U2-L3, 3W	243	
								1.	U16-L17, 3W	244	
A18 ^R							1.	1.	U0-L1, 4W	313	
								1.	U2-L3, 5W	243	
A18 ^R		2.						1.	U16-L17, 5W	244	
A18 ^R			1.					1.	U10-L9, 4W	313	
A19 ^R							1.	1.	U1-L0, 3W	239	
A19 ^R							1.	1.	U1-L0, 5W	239	
A20 ^R								3.	1.	U1-L0, 6W	239
									1.	U5-L16, 3W	244
									1.	U2-L3, 4W	313
A20 ^R									1.	U3-L4, 4W	313
									1.	U4-L5, 4W	313
A20 ^R	1.								1.	U15-L16, 5W	244
									1.	U6-L5, 4W	313
A20 ^R							3.		1.	U7-L6, 4W	313
									1.	U8-L7, 4W	313
A21 ^R							1.	1.	1.	U13-L12, 3W	239
A21 ^R							1.		1.	U13-L12, 5W	239
A22 ^R							1.		1.	U14-L13, 3W	241
A22 ^R							1.		1.	U14-L13, 5W	241
A24 ^R							1.		1.	U14-L15, 3W	242
A24 ^R							1.		1.	U14-L15, 5W	242
A25 ^R							1.		1.	U1-L2, 4W	313
A25 ^R							1.		1.	U9-L8, 4W	313
A23 ^R							1.		1.	U0-U1, 1W	401
A23 ^R	1.						1.		1.	U0-U1, 6W	401
A27 ^R							1.		1.	U0-U1, 1W	401
A27 ^R	1.						1.		1.	U0-U1, 6W	401

LINE	MATERIAL		ASSEMBLING MARK	REMARKS	CALCULATED WEIGHT FOR ONE SHIP. PIECE	ORDERED	ITEM	LINE	MATERIAL		ASSEMBLING MARK	REMARKS	CALCULATED WEIGHT FOR ONE SHIP. PIECE	ORDERED	ITEM
	SHAPE	LENGTH							SHAPE	LENGTH					
1	6	L. 7 1/2 x 4 1/2	2	3 1/2	A15 ^R	(Cut 8x4)	3 1/2	2	16	1.	L. 7 1/2 x 4 1/2	2	2 1/2	A25 ^R	
2	3				A15 ^R		3 1/2	2	17	1.				A25 ^R	
3	8	L. 7 x 4 3/8	2	3 1/2	A16 ^R	(Cut 7x4)	7 1/4	4	19	4.	L. 6 3/4 x 4 3/8	2	4	A13 ^R	(Cut 7x4)
4	4				A16 ^R		7 1/4	4	20	1.				A13 ^R	
5	3	L. 6 3/4 x 4 3/8	2	3	A18 ^R	(Cut 7x4)	3 1/4	4	22	6.	L. 7 1/2 x 4 3/8	2	4	A14 ^R	(Cut 8x4)
6	3				A18 ^R		3 1/4	4	23	4.				A14 ^R	
7	4	L. 7 x 4 3/8	2	2	A20 ^R		2 1/2	8	25	2.	L. 7 x 4 3/8	2	4	A17 ^R	
8	4				A20 ^R		2 1/2	8	26	2.				A17 ^R	
9	1	L. 7 1/2 x 4 1/2	2	0 3/4	A24 ^R	(Cut 8x4)	3 1/4	2	28	2.	L. 7 1/2 x 4 1/2	2	4	A19 ^R	(Cut 8x4)
10	1				A24 ^R		3 1/4	2	29	2.				A19 ^R	

MATERIAL: O.H. Steel A.S.T.M. A7-36
Copper bearing 0.20 min. copper content
SPECIFICATIONS: Special by Wilbur
Watson & Associates also Ohio State
Highway
INSPECTION: James H. Herron Co.
ERECTION: A.B.Co.
RIVETS: unless noted
OPEN HOLES: 1/8" unless noted
REMARKS: All holes punched full size

Lorain County, Ohio
EAST 21st STREET BRIDGE
Lorain, Ohio

AMERICAN BRIDGE COMPANY
DRAWINGS MADE AT: Amb.
WORK FABRICATED AT: Amb.
IN CHARGE OF: Loughman
DRAWN BY: J.B. Co.
DRAWN CHECKED BY: J.B. Co.

Paint: Yes, except as noted.
Period: 8-12-38

ORDER NO. H2527

Mark	Division							Ship on		Order No.	
	1	2	3	4	5	6	7	No.	Mark		Sh. No.
	B13 ^R			3					1.		U8-L7, 1E.
B13 ^R								1.	U9-L8, 1E.	431	
B13 ^R								1.	U10-L9, 1E.	431	
B13 ^R								1.	U2-L1, 3E.	240	
B13 ^R	1.							1.	U2-L1, 5E.	240	
B14 ^R				2.				1.	U6-L5, 1E.	430	
B14 ^R								1.	U7-L6, 1E.	430	
B14 ^R								1.	U5-L4, 2E.	122	
B14 ^R								1.	U6-L5, 2E.	122	
B14 ^R								1.	U9-L8, 3E.	240	
B14 ^R								1.	U10-L9, 3E.	240	
B14 ^R								1.	U6-L5, 6E.	122	
B14 ^R	2.							1.	U9-L8, 5E.	240	
B14 ^R								1.	U10-L9, 5E.	240	
B19 ^R	1.							1.	U11-L10, 5E.	239	
B15 ^R				2.				1.	U1-L2, 1E.	425	
B15 ^R								1.	U2-L3, 1E.	425	
B15 ^R								1.	U0-L1, 2E.	432	
B15 ^R								1.	U1-L2, 2E.	432	
B15 ^R								1.	U4-L5, 3E.	242	
B15 ^R								1.	U5-L6, 3E.	242	
B15 ^R	1.							1.	U1-L2, 6E.	121	
B15 ^R								1.	U4-L5, 5E.	242	
B15 ^R	2.							1.	U5-L6, 5E.	242	
B16 ^R				4.				1.	U3-L4, 1E.	425	
B16 ^R								1.	U4-L5, 1E.	425	
B16 ^R								1.	U10-L11, 1E.	431	
B16 ^R								1.	U11-L12, 1E.	432	
B16 ^R								1.	U2-L3, 2E.	121	
B16 ^R								1.	U3-L4, 3E.	243	
B16 ^R								1.	U7-L8, 3E.	243	
B16 ^R	1.							1.	U2-L3, 6E.	121	
B16 ^R								1.	U3-L4, 5E.	243	
B16 ^R								1.	U6-L7, 5E.	243	
B16 ^R								1.	U7-L8, 5E.	243	
B17 ^R								1.	U4-L3, 6E.	121	
B17 ^R	1.							1.	U12-L11, 3E.	241	
B17 ^R								1.	U12-L11, 5E.	241	
B17 ^R	1.							1.	U2-L3, 3E.	243	
B18 ^R								1.	U16-L17, 3E.	244	
B18 ^R								1.	U0-L1, 4E.	313	
B18 ^R								1.	U2-L3, 5E.	243	
B18 ^R	2.							1.	U16-L17, 5E.	244	
B18 ^R								1.	U10-L9, 4E.	313	
B19 ^R								1.	U1-L0, 3E.	239	
B19 ^R	1.							1.	U1-L0, 5E.	239	
B20 ^R								1.	U15-L16, 3E.	244	
B20 ^R								1.	U2-L3, 4E.	313	
B20 ^R								1.	U3-L4, 4E.	313	
B20 ^R								1.	U4-L5, 4E.	313	
B20 ^R	1.							1.	U15-L16, 5E.	244	
B20 ^R								1.	U6-L5, 4E.	313	
B20 ^R								1.	U7-L6, 4E.	313	
B20 ^R								1.	U8-L7, 4E.	313	
B21 ^R								1.	U13-L12, 3E.	239	
B21 ^R	1.							1.	U13-L12, 5E.	239	
B22 ^R								1.	U14-L13, 3E.	241	
B22 ^R	1.							1.	U14-L13, 5E.	241	
B24 ^R								1.	U14-L15, 3E.	242	
B24 ^R	1.							1.	U14-L15, 5E.	242	
B25 ^R								1.	U1-L2, 4E.	313	
B25 ^R	1.							1.	U9-L8, 4E.	313	
B23 ^R								1.	U0-U1, 1E.	401	
B23 ^R	1.							1.	U0-U1, 6E.	110	

Guard Rail Supports - B15^R B16^R B18^R B20^R B24^R B25^R

Guard Rail Supports - B13^R B14^R B17^R B19^R B21^R B22^R

LINE	Total No. of Pieces on the Order	SHAPE	LENGTH	ASSEMBLING MARK	REMARKS	CALCULATED WEIGHT FOR ONE SHIP. PIECE	ORDERED	ITEM	LINE	Total No. of Pieces on the Order	SHAPE	LENGTH	ASSEMBLING MARK	REMARKS	CALCULATED WEIGHT FOR ONE SHIP. PIECE	ORDERED	ITEM	LINE	Total No. of Pieces on the Order	SHAPE	LENGTH	ASSEMBLING MARK	REMARKS	CALCULATED WEIGHT FOR ONE SHIP. PIECE	ORDERED	ITEM	LINE	Total No. of Pieces on the Order	SHAPE	LENGTH	ASSEMBLING MARK	REMARKS	CALCULATED WEIGHT FOR ONE SHIP. PIECE	ORDERED	ITEM
1	6	L 7 4 3/8	3 5 3/8	B15 ^R	(Cut 8x4)	31-0	2	15	1	L 7 4 3/8	3 3 3/4	B25 ^R		32-10	8	31	1	L 7 4 3/8	3 5	B21 ^R	(Cut 8x4)		8x4	4	46										
2	3			B15 ^R		31-0	2	16	1			B25 ^R		32-10	8	32	1			B21 ^R			3x4	4	47										
4	8	L 7 4 3/8	3 5 3/8	B16 ^R		41-4	6	19	4	L 6 3/4 4 3/8	3 6 3/8	B13 ^R	(Cut 7x4)	32-2	9	34	1	L 7 4 3/8	3 2 3/8	B22 ^R			30-6	10	49										
5	4			B16 ^R		41-4	6	20	1			B13 ^R		32-2	9	35	1			B22 ^R			30-6	10	50										
7	3	L 6 3/4 4 3/8	3 5	B18 ^R	(Cut 7x4)	30-6	10	22	6	L 7 4 3/8	3 6 3/8	B14 ^R	(Cut 8x4)	31-4	3	37	1	L 6 3/4 4 3/8	3 5 3/8	B23 ^R	(Cut 7x4)		7x4	10	52										
8	3			B18 ^R		30-6	10	23	4			B14 ^R		31-4	3	38							30-6	10	53										
10	4	L 7 4 3/8	3 3 3/4	B20 ^R		32-10	8	25	2	L 7 4 3/8	3 6 3/8	B17 ^R		32-2	9	40							2x4	7	54										
11	4			B20 ^R		32-10	8	26	2			B17 ^R		32-2	9	41							30-10	7	55										
13	1	L 7 4 3/8	3 1 1/2	B24 ^R	(Cut 8x4)	16-7	4	28	2	L 7 4 3/8	3 6 3/8	B19 ^R	(Cut 8x4)	8x4	3	43							2x4	3	44										
14	1			B24 ^R		16-7	4	29	2			B19 ^R		8x4	3	44							2x4	3	45										

MATERIAL: O.H. Steel A.S.T.M. A7-36
 Copper bearing 0.20 min. copper content
 SPECIFICATIONS: Special by Wilbur
 Watson & Associates also Ohio State
 Highway
 INSPECTION: James H. Herron Co.
 ERECTION: A.B.Co.
 RIVETS: unless noted
 OPEN HOLES: 1/8" unless noted
 REAMING: All holes punched full size

Lorain County, Ohio
EAST 21st STREET BRIDGE
 Lorain, Ohio
 AMERICAN BRIDGE COMPANY

DRAWINGS MADE AT: Amb. PLANT
 WORK FABRICATED AT: Amb. PLANT
 IN CHARGE OF: Loughman
 DRAWN BY: A.A.Z. DATE: 6-14-39
 DRAWN CHECKED BY: J.W.S. DATE: 6-30-39

Paint: Yes except as noted.
 ORDER No. H2528 SHEET No. P-2