

SECTION C-C
(DEVELOPED)

SECTION A-A
(DEVELOPED)

SECTION B-B
(DEVELOPED)

* NOTE "A"
TANGENT TO GIRDER
@ BRG. STIFFNRS

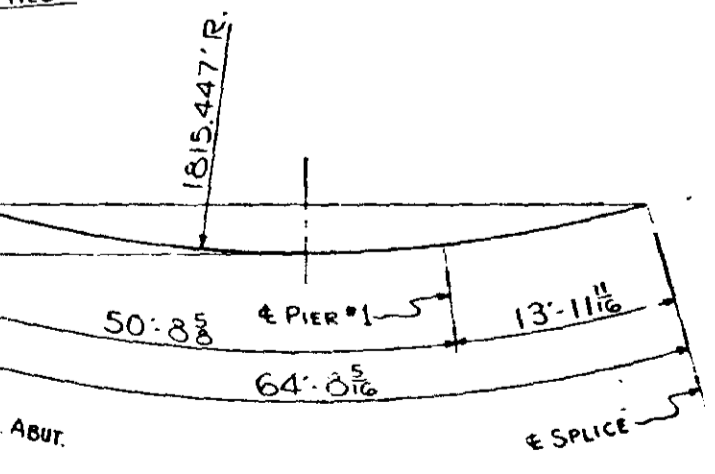
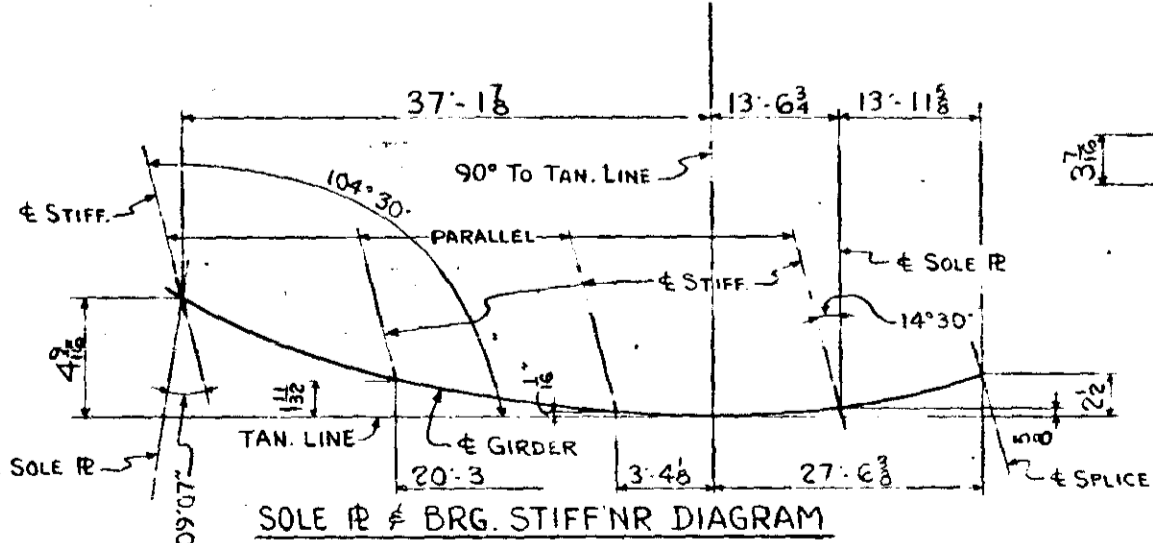
* SEE NOTE "A"

GEN. NOTES:

- 100 PER CENT OF ALL FILLET WELDS SHALL BE EXAMINED BY MAGNETIC PARTICLE INSPECTION EXCEPT ON RAILING AND RAILING COMPONENTS, LIGHTING SYSTEMS (INCLUDING INCIDENTAL PARTS), BEARINGS, LADDERS, EXPANSION DEVICES, INSPECTION WALKWAYS, INTERMEDIATE STIFFENERS IN APPROACH SPANS & CHANNEL DIAPHRAGMS.
- PAINT ALL CONTACT SURFACES
- PAINT 1-COAT M.H.D. 3509 ORANGE PRIMER
- FULL ASSEMBLY REAMING WILL BE REQUIRED AS PER M.H.D. 2471.3E1d
- HOLES SHALL BE SUBPUNCHED 1/16" & REAMED TO 1/16" OR DRILLED FROM A SOLID U.M. 1/2" HOLES IN BOTT. FLG. TO BE DRILLED FROM STEEL TEMPLATE USING HARDENED BUSHING, SAME TEMPLATE TO BE USED FOR BRG. ASSEMBLY.
- ALL MEMBERS TO BE SHOP ASSEMBLED AND MATCH MARKED - SEE DRWG. E1
- MATCH MARK WITH PAINT & METAL DIE - MATCH MARKING TO BE M.H.D. 2471.3E1e & 2471.3K
- ALL STEEL TO BE AS PER M.H.D. 3306 - FOR FLAME CUTTING SEE M.H.D. 2471.3C4
- EDGE FINISH AS PER M.H.D. 2471.3D3 & 2471.3I4
- MATERIAL & SHOP WORK AS PER M.H.D. SPECS. DATED 1-1-64 & SPECIAL PROVISIONS
- SHOP INSPECTION BY M.H.D.
- CAMBER AS SHOWN OR NOTED
- PROVISIONS FOR WELDED CONSTRUCTION AS PER M.H.D. 2471.3J
- WELDING ELECTRODES AS PER M.H.D. 3339
- FLANGE PLATES AND COVER PLATES FOR CURVED GIRDERS SHALL BE PREFORMED TO PROPER CURVATURE BEFORE WELDING TO WEB PLATES AND FLANGES. THIS MAY BE DONE BY HEATING, MECHANICAL BENDING, OR FLAME CUTTING. REGARDLESS OF METHOD USED, MEASUREMENT FOR PAYMENT WILL BE BASED UPON THE NET CROSS-SECTIONAL AREA AFTER FORMING.

SHOP NOTE:

- BEVEL EDGE OF ALL STIFFNRS TO FIT FLUSH AGAINST GIRDER WEB
- ALL LONGITUDINAL DIMENSIONS ARE GIVEN ALONG TOP OF WEB OR TOP OF WIDE FLANGE
- BRG. & INTERMEDIATE STIFFNRS 90° TO TOP FLANGE



CENTER LINE GIRDER DIAGRAM

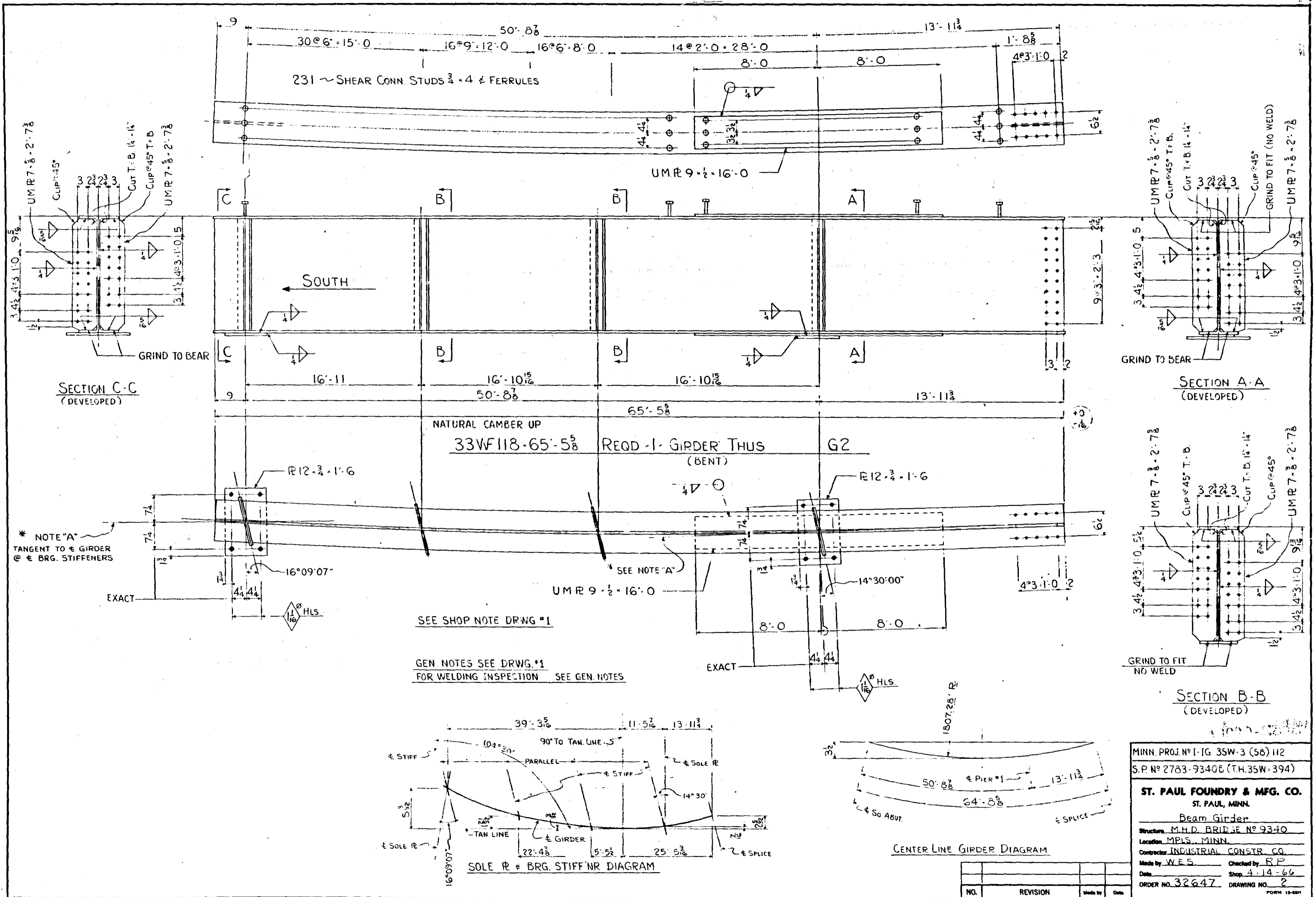
MINN. PROJ. NO. 1-IG 35W-3 (56) 112
S.P. NO. 2783-9340B (T.H. 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

Beam Girder

Structure: M.H.D. BRIDGE NO. 9340
Location: MPLS. MINN.
Contractor: INDUSTRIAL CONSTR. CO.
Made by: W.E.S. Checked by: R.P.
Date: Shop 4-13-64
ORDER NO. 32647 DRAWING NO. 1

NO.	REVISION	Made by	Date

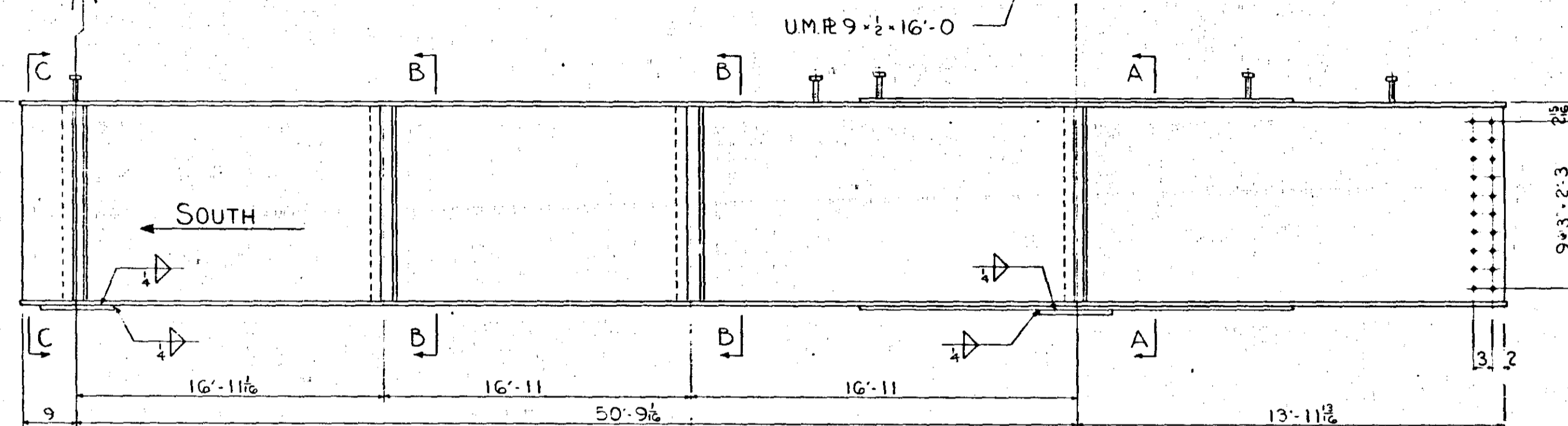
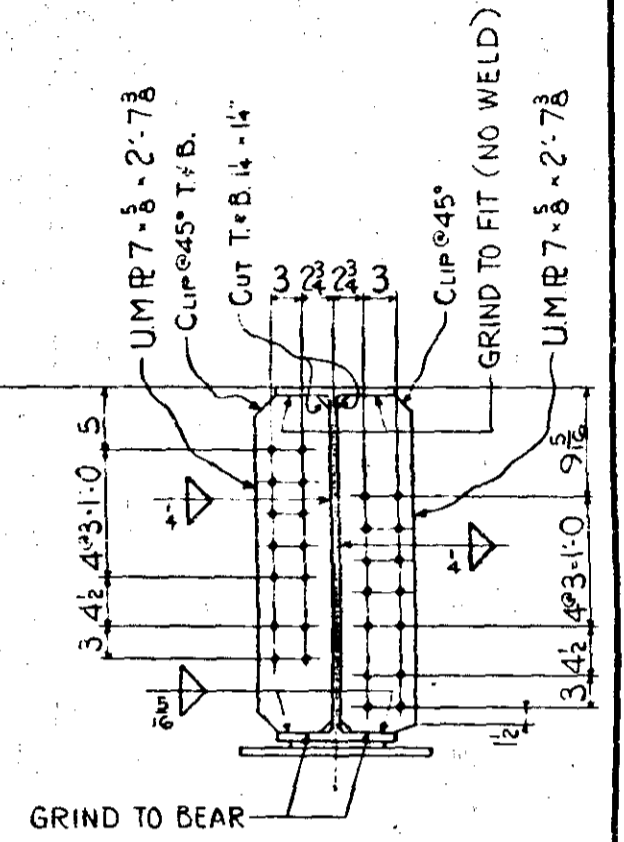
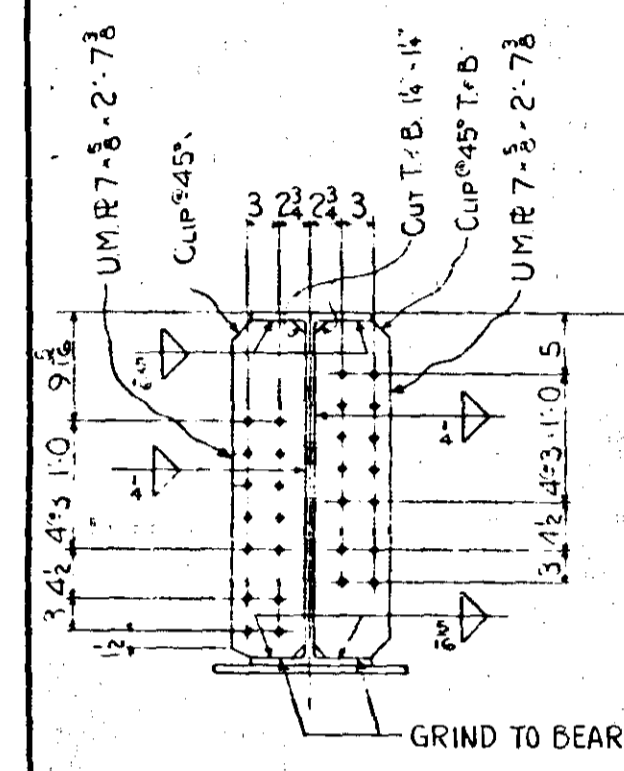
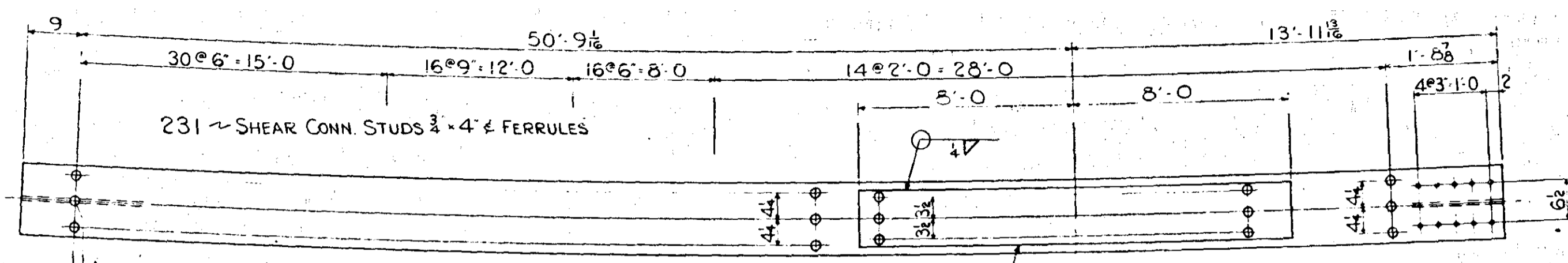


MINN. PROJ. NO. 1-IG 35W-3 (56) 112
 S.P. NO. 2783-93406 (TH.35W-394)

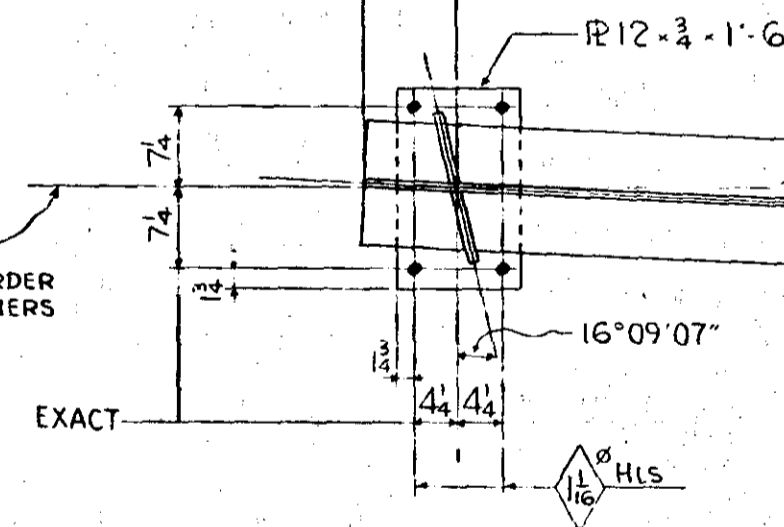
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

Beam Girder
 Structure: M.H.D. BRIDGE NO. 9340
 Location: MPLS. MINN.
 Contractor: INDUSTRIAL CONSTR. CO.
 Made by: W.E.S. Checked by: R.P.
 Date: 4-14-66
 ORDER NO. 32647 DRAWING NO. 2

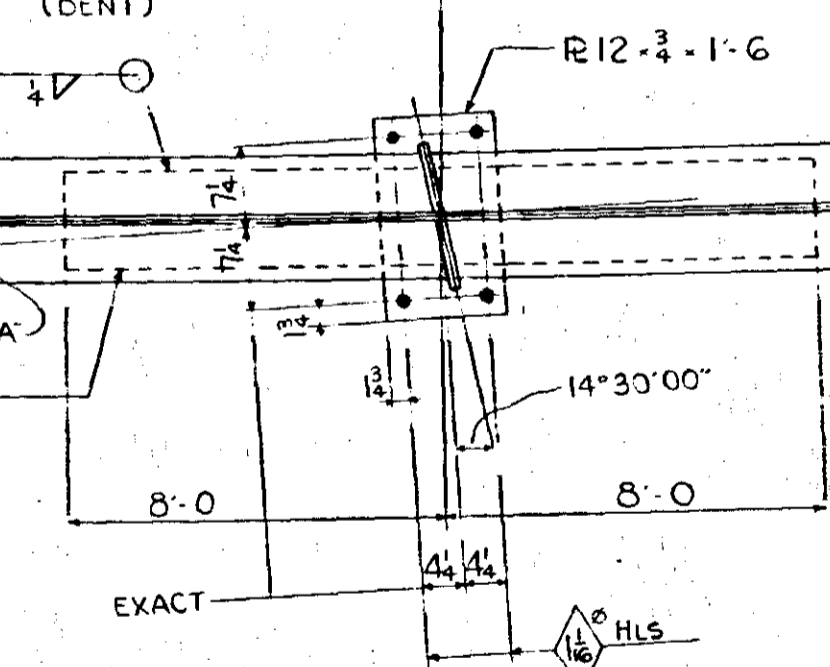
NO.	REVISION	Made by	Date



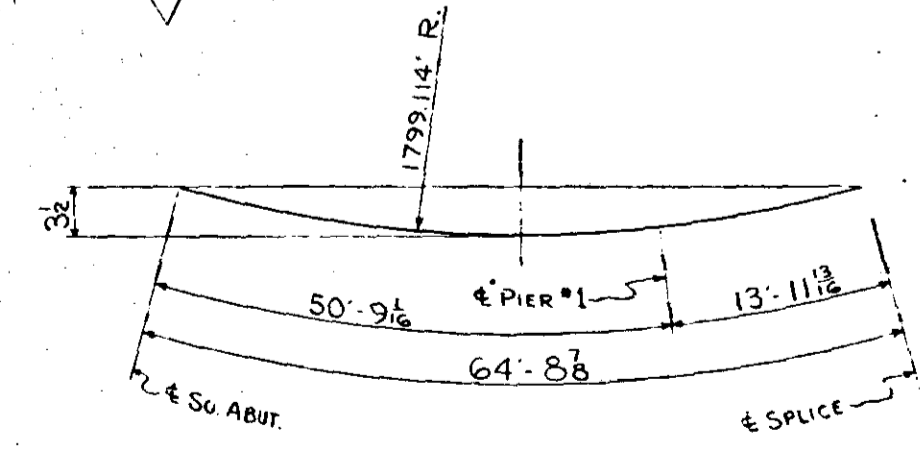
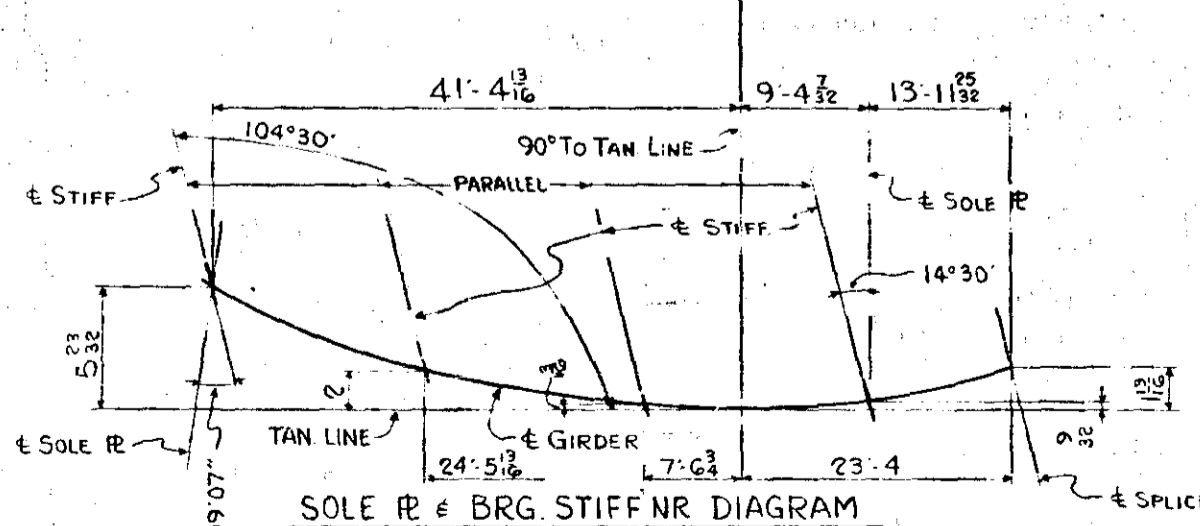
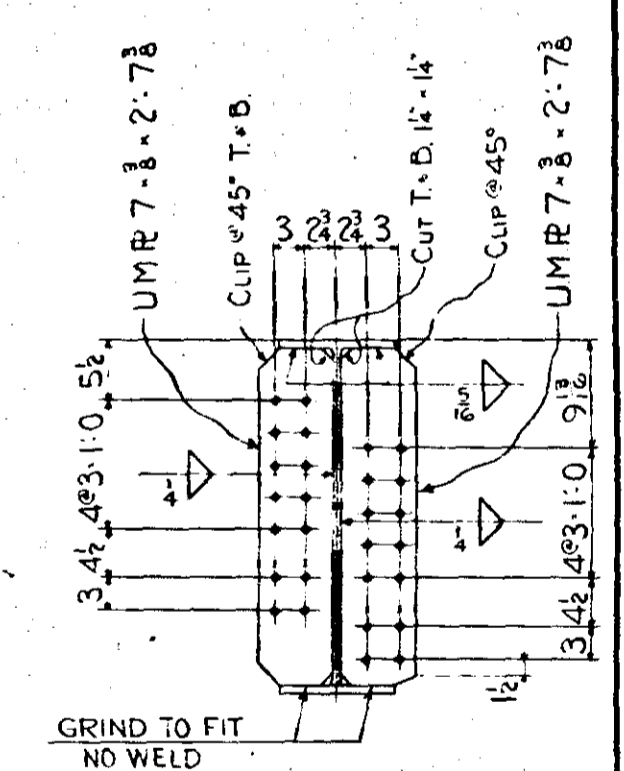
* NOTE "A"
TANGENT TO G GIRDER
& BRG. STIFFENERS



* SEE NOTE "A"



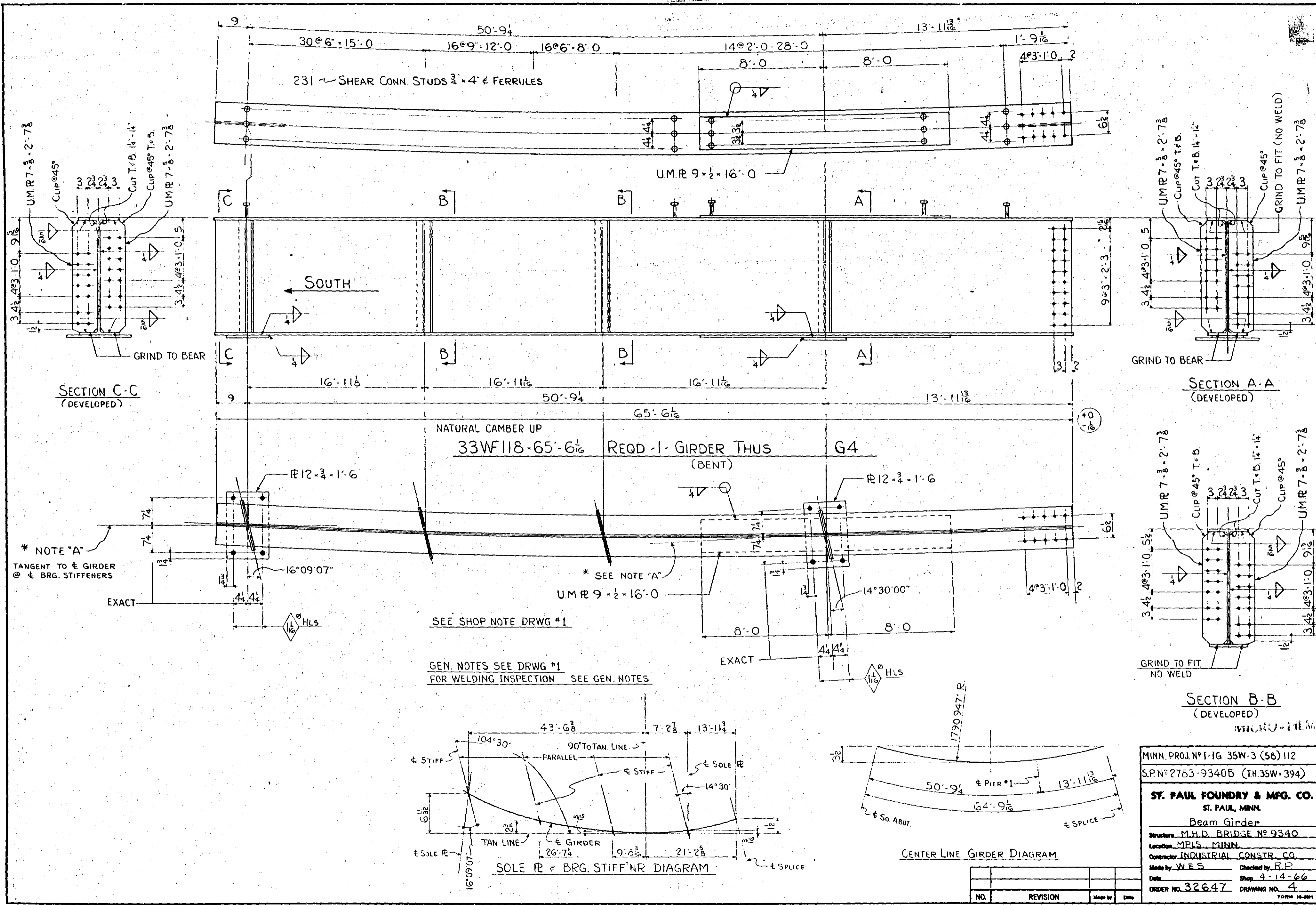
SEE SHOP NOTE DRWG. #1
GEN. NOTES SEE DRWG #1
FOR WELDING INSPECTION SEE GEN NOTES



MICRO-FILM

MINN. PROJ. NO. 1-IG 35W-3 (56) 112	
S.P.N. # 2783-9340B (TH. 35W-394)	
ST. PAUL FOUNDRY & MFG. CO.	
ST. PAUL, MINN.	
Beam Girder	
Structure M.H.D. BRIDGE NO. 9340	
Location MPLS. MINN.	
Contractor INDUSTRIAL CONSTR. CO.	
Made by W.E.S.	Checked by R.P.
Date	Shop 4-14-66
ORDER NO. 32647	DRAWING NO. 3
NO.	REVISION
Made by	Date

NO.	REVISION	Made by	Date



SECTION C-C
(DEVELOPED)

SECTION A-A
(DEVELOPED)

SECTION B-B
(DEVELOPED)

CENTER LINE GIRDER DIAGRAM

SOLE PLATE BRG. STIFF'NR DIAGRAM

231 SHEAR CONN. STUDS 3/4 x 4 FERRULES

UMR 9-2 x 16-0

NATURAL CAMBER UP
33WF118-65-6 1/2 REQD -1- GIRDER THUS
(BENT) G4

* NOTE "A"
TANGENT TO GIRDER
@ BRG. STIFFENERS

* SEE NOTE "A"
UMR 9-2 x 16-0

SEE SHOP NOTE DRWG #1

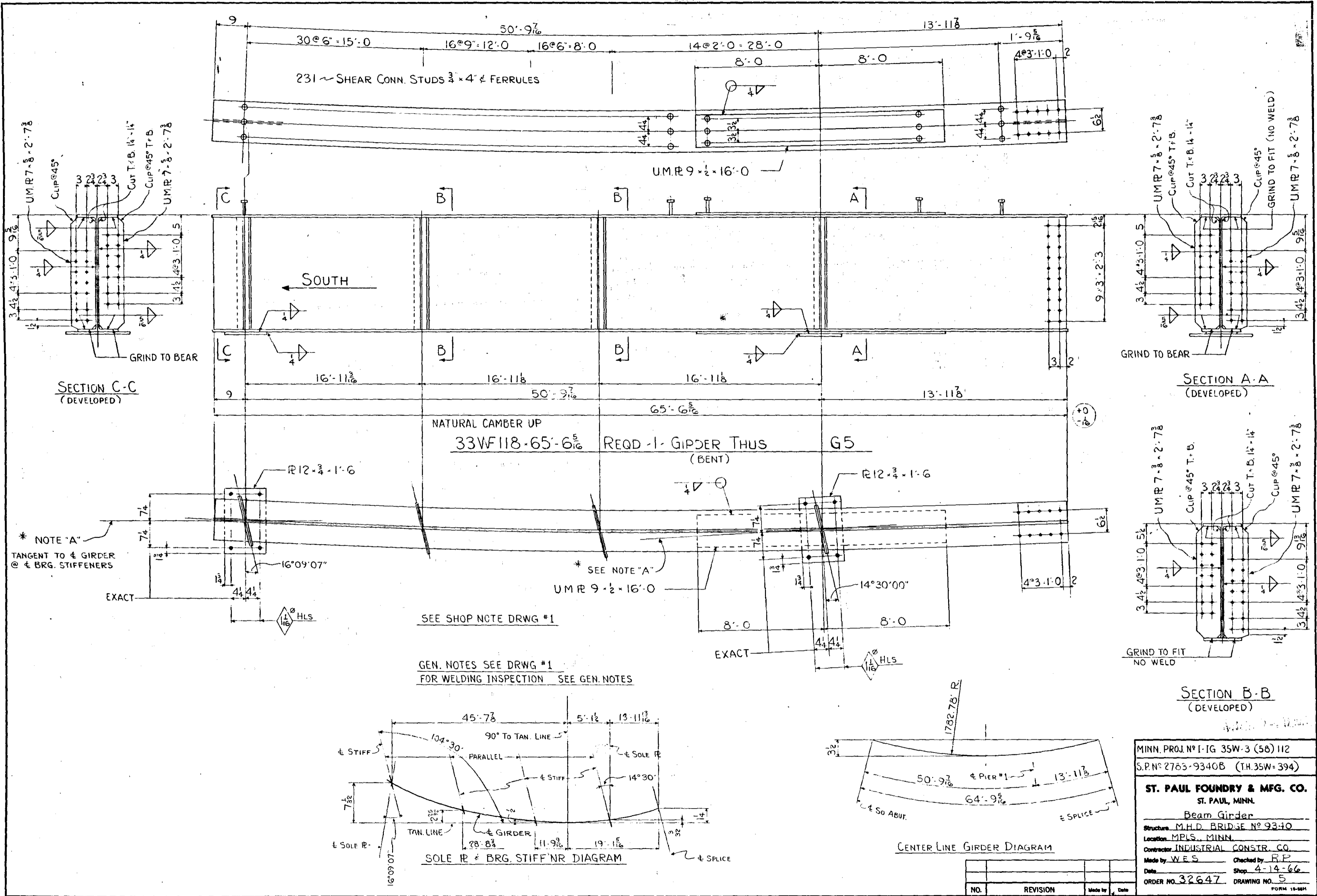
GEN. NOTES SEE DRWG #1
FOR WELDING INSPECTION SEE GEN. NOTES

MINN. PROJ. NO. 1-IG 35W-3 (58) 112
S.P. NO. 2785-9340B (TH. 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.
Beam Girder
Structure M.H.D. BRIDGE NO. 9340
Location MPLS. MINN.
Contractor INDUSTRIAL CONSTR. CO.
Made by W.E.S. Checked by R.P.
Date Shop 4-14-66
ORDER NO. 32647 DRAWING NO. 4

NO.	REVISION	Made by	Date

FORM 18-581



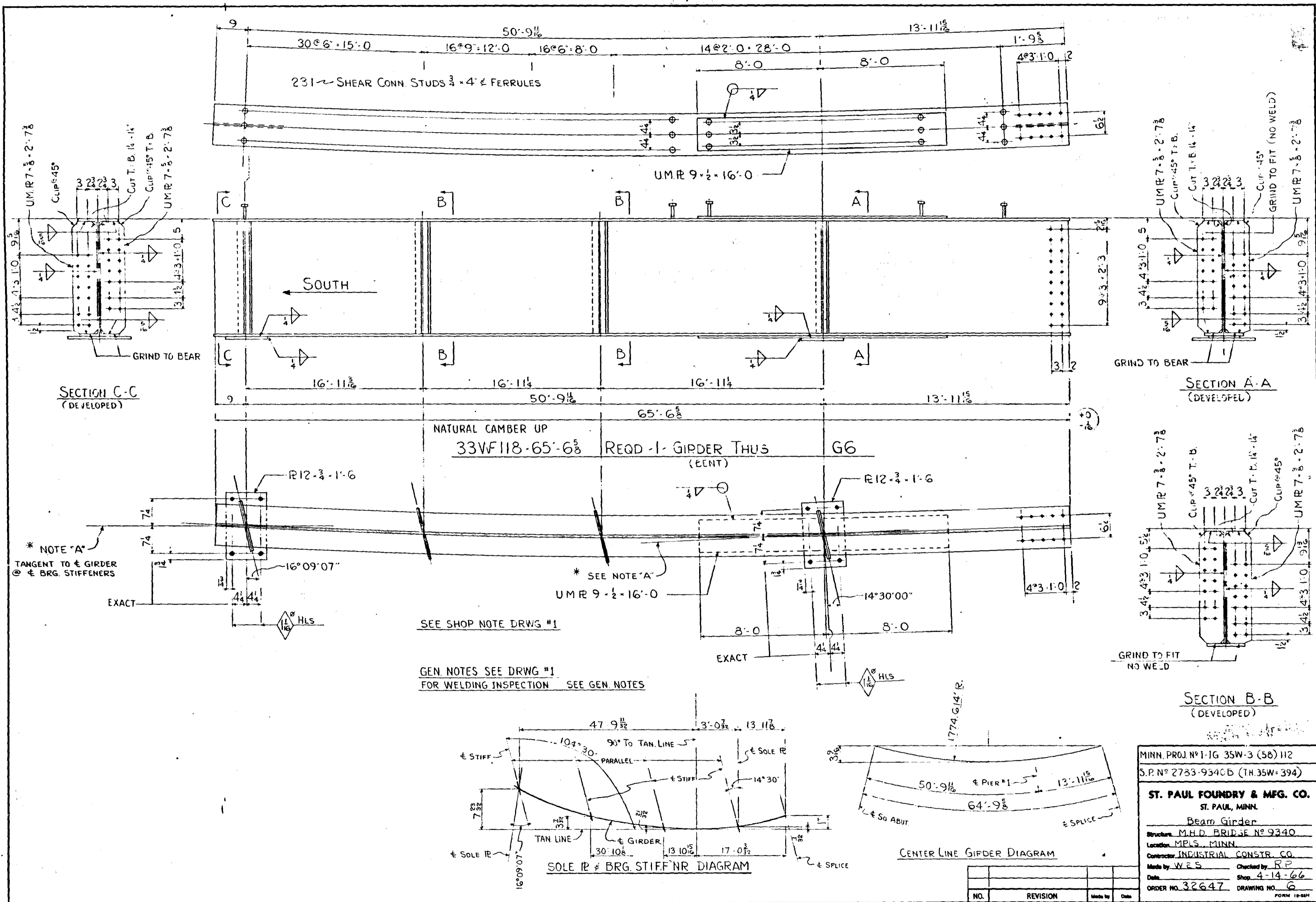
MINN. PROJ. N° 1-IG 35W-3 (58) 112
 S.P. N° 2763-9340B (TH. 35W=394)

ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

Beam Girder

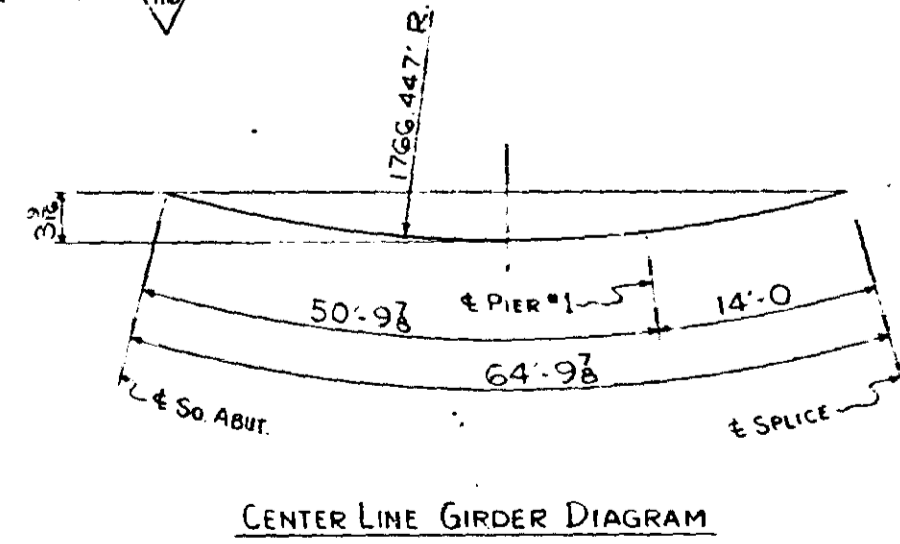
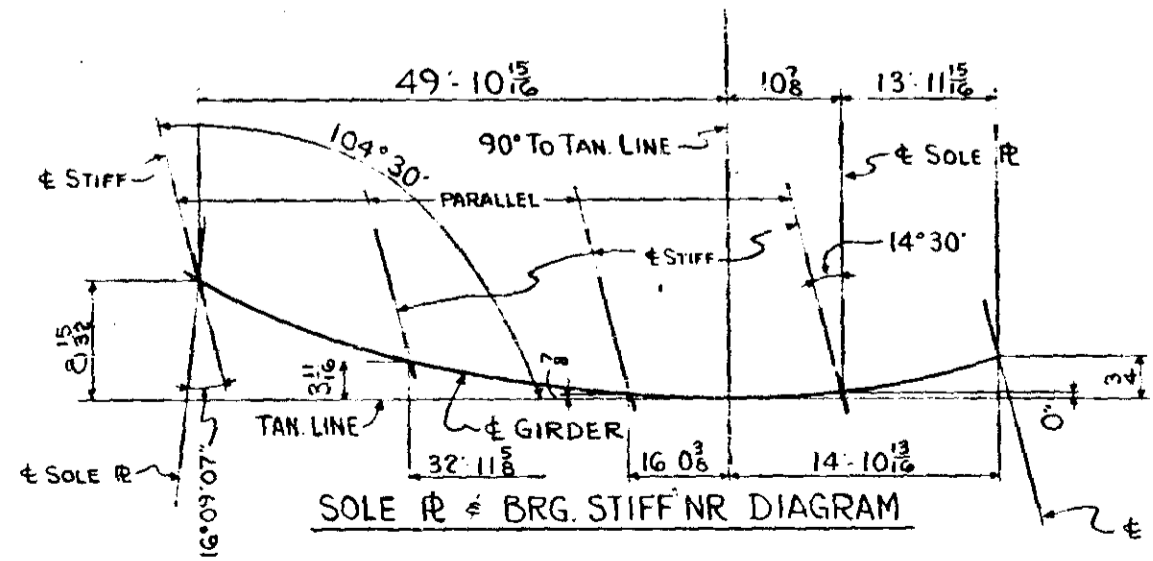
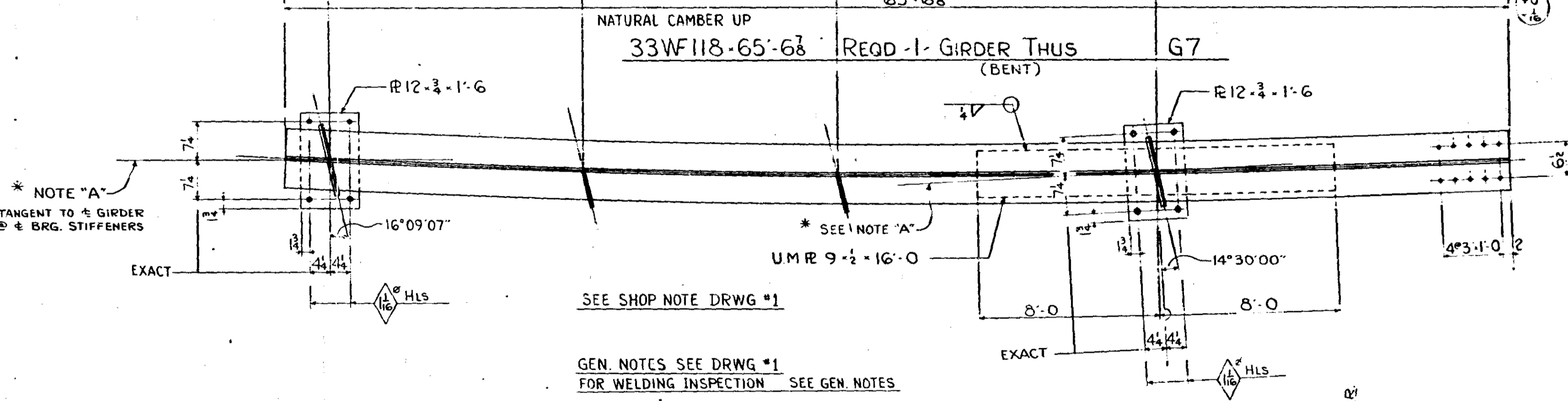
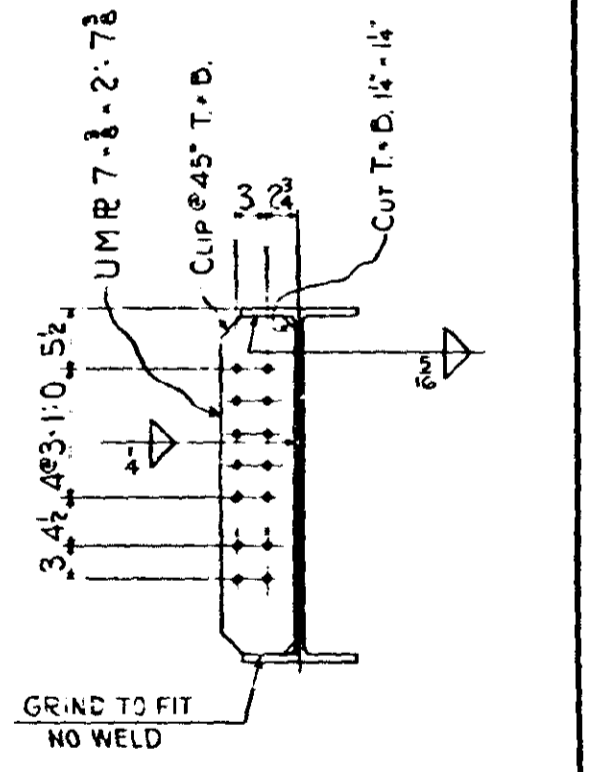
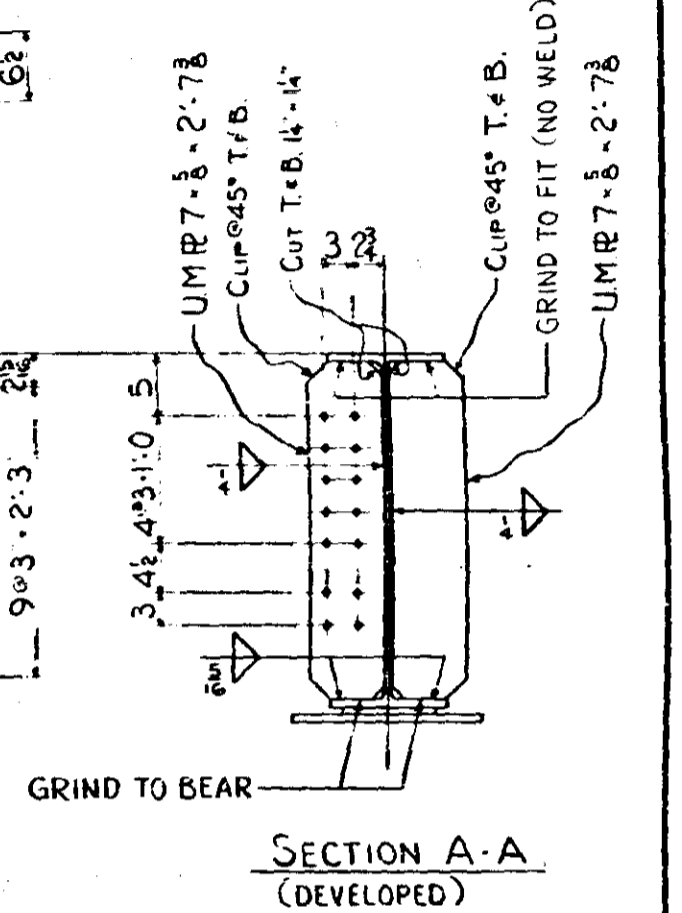
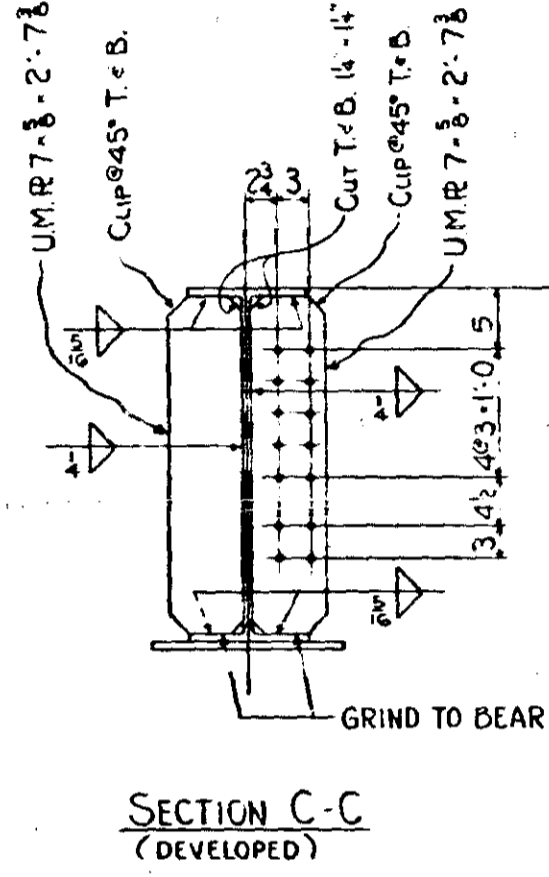
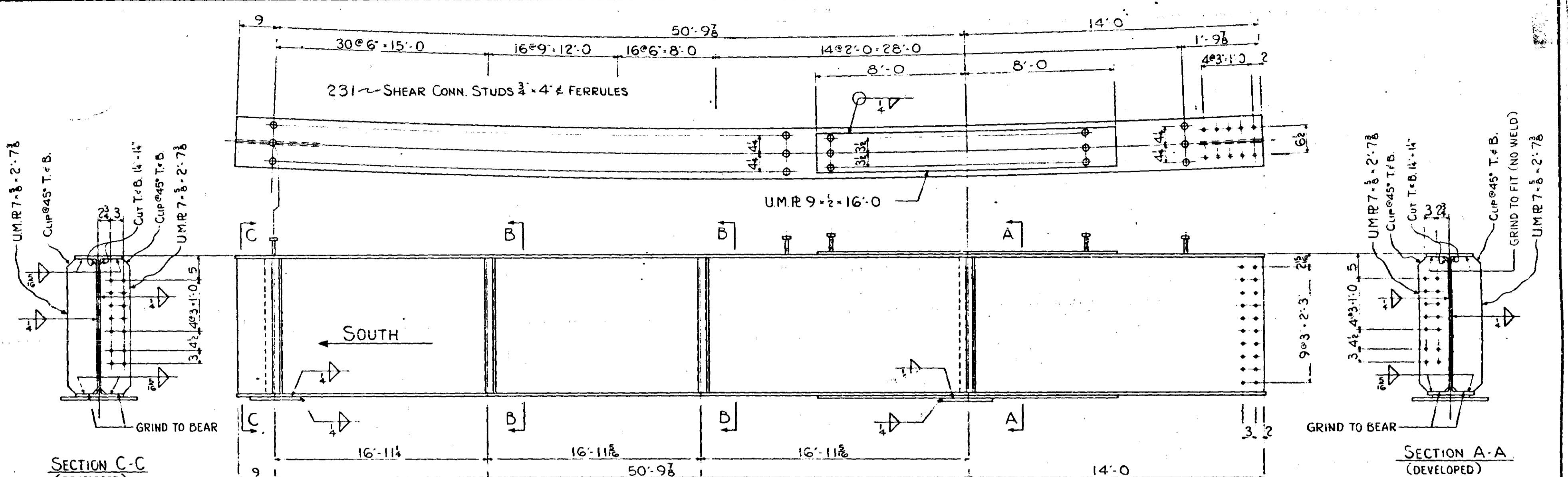
Structure: M.H.D. BRIDGE N° 93-10
 Location: MPLS., MINN.
 Contractor: INDUSTRIAL CONSTR. CO.
 Made by: WES Checked by: R.P.
 Date: Shop 4-14-66
 ORDER NO. 32647 DRAWING NO. 5
 FORM 15-58H

NO.	REVISION	Made by	Date



MINN. PROJ. NO. 1-IG 35W-3 (56) 112	
S.P.N. NO. 2783-9340B (TH. 35W-394)	
ST. PAUL FOUNDRY & MFG. CO.	
ST. PAUL, MINN.	
Beam Girder	
Structure: M.H.D. BRIDGE NO. 9340	
Location: MPLS. MINN.	
Contractor: INDUSTRIAL CONSTR. CO.	
Made by: W.E.S.	Checked by: R.P.
Date: 4-14-66	Shop: 4-14-66
ORDER NO. 32647	DRAWING NO. 6

NO.	REVISION	Made by	Date



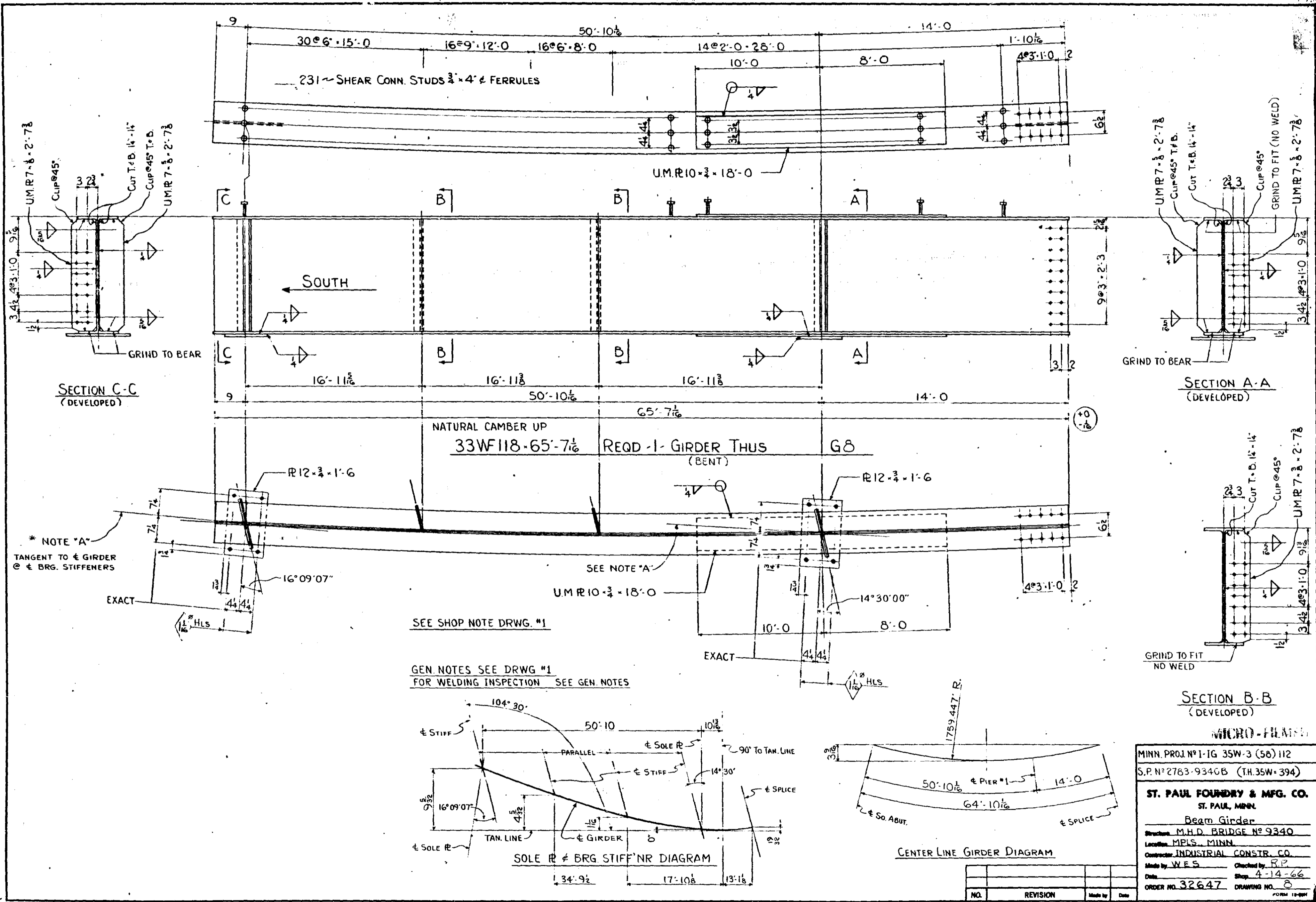
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S.P.N° 2783-9340B (TH.35W-394)

ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

Beam Girder

Structure: **M.H.D. BRIDGE N° 9340**
 Location: **MPLS., MINN.**
 Contractor: **INDUSTRIAL CONSTR. CO.**
 Made by: **WES** Checked by: **RP**
 Date: **4-14-66**
 Shop: **4-14-66**
 ORDER NO. **32647** DRAWING NO. **7**

NO.	REVISION	Made by	Date

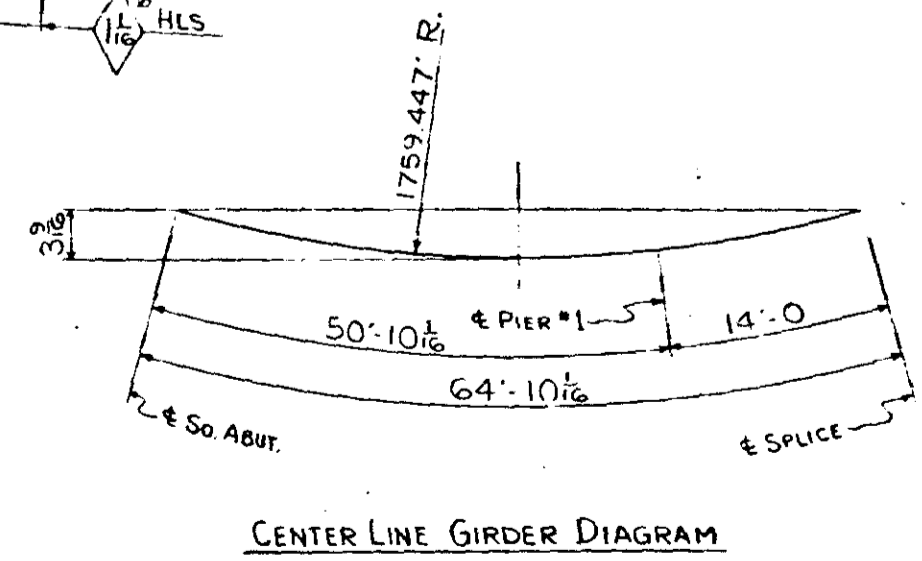
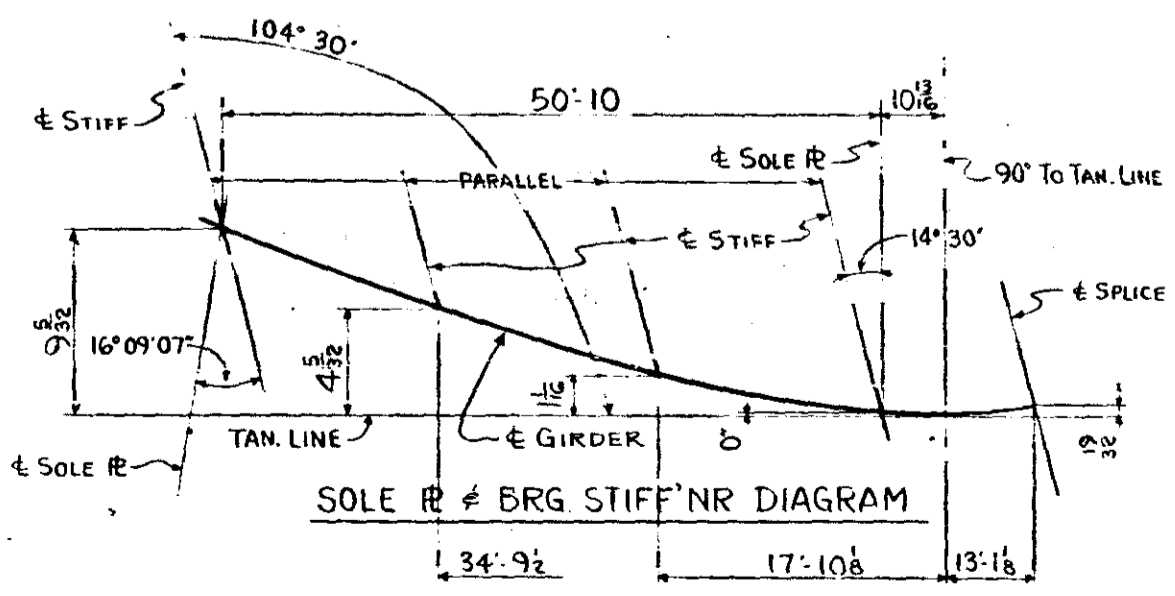


SECTION C-C
(DEVELOPED)

SECTION A-A
(DEVELOPED)

SECTION B-B
(DEVELOPED)

GEN NOTES SEE DRWG #1
FOR WELDING INSPECTION SEE GEN NOTES



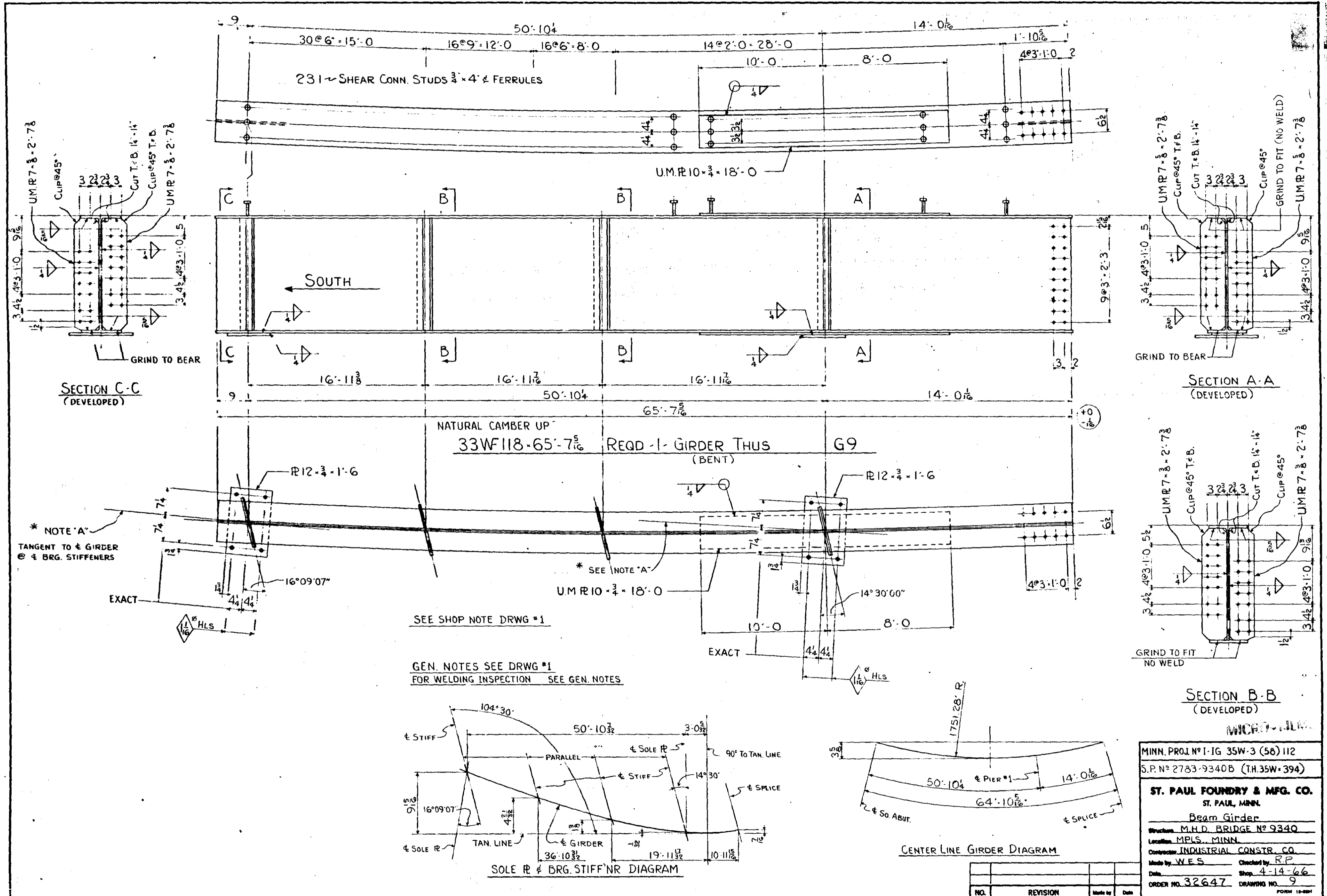
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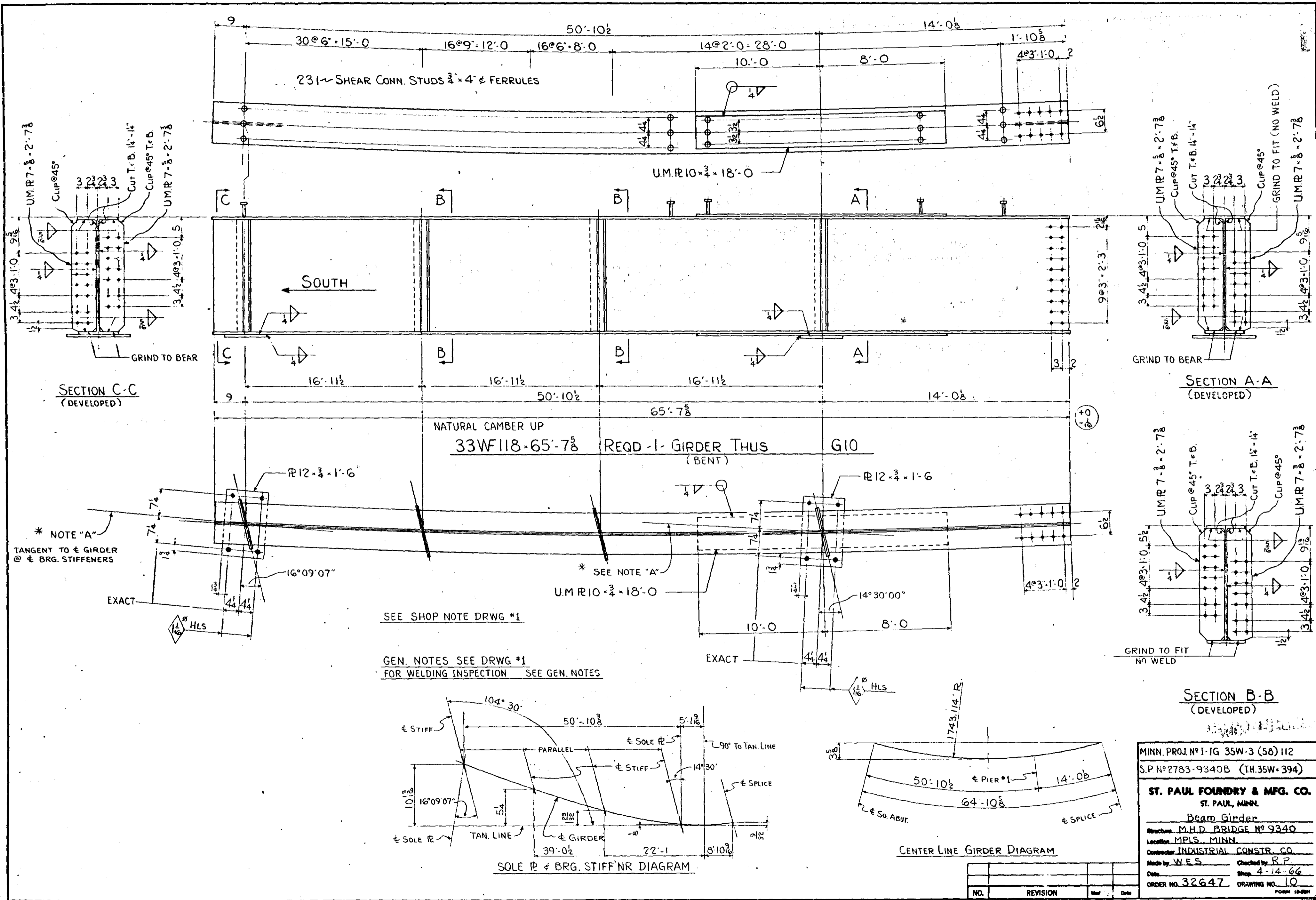
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S.P.N° 2783-9340B (TH. 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

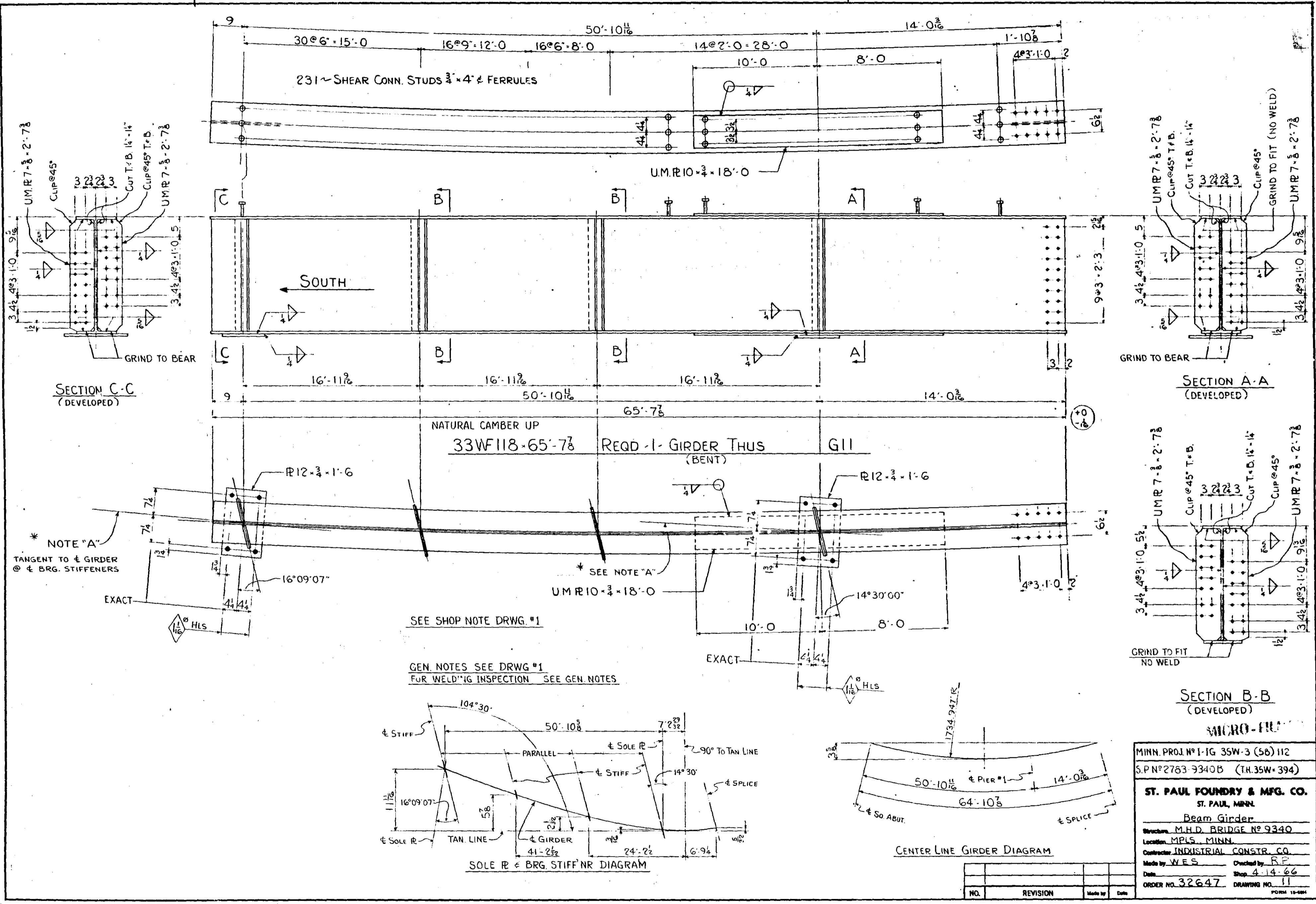
Beam Girder
Structure: M.H.D. BRIDGE N° 9340
Location: MPLS. MINN.
Contractor: INDUSTRIAL CONSTR. CO.
Made by: W.E.S. Checked by: R.P.
Date: 4-14-66 Shop: 4-14-66
ORDER NO. 32647 DRAWING NO. 8

NO.	REVISION	Made by	Date





MINN. PROJ. NO. 1-IG 35W-3 (56) 112	
S.P. NO. 2783-9340B (TH. 35W-394)	
ST. PAUL FOUNDRY & MFG. CO. ST. PAUL, MINN.	
Beam Girder	
Structure M.H.D. BRIDGE NO. 9340	
Location MPLS., MINN.	
Contractor INDUSTRIAL CONSTR. CO.	
Made by WES	Checked by R.P.
Date	Shop 4-14-66
ORDER NO. 32647	DRAWING NO. 10
NO.	REVISION



231 ~ SHEAR CONN. STUDS 3/4" x 4" & FERRULES

UMR 10-3-18-0

SOUTH

NATURAL CAMBER UP
 33WF118-65-7 3/8 REQD -1- GIRDER THUS (BENT) G11

SECTION C-C (DEVELOPED)

SECTION A-A (DEVELOPED)

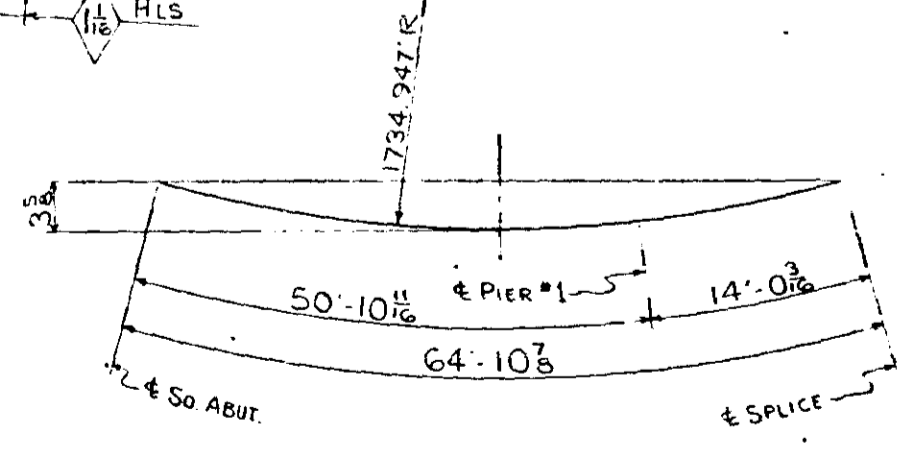
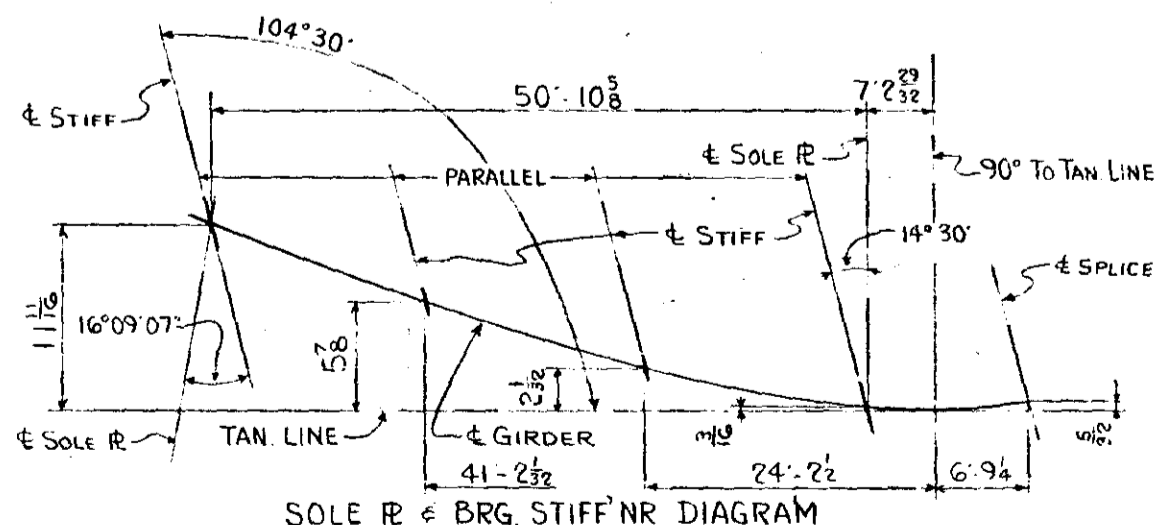
SECTION B-B (DEVELOPED)

* NOTE "A"
 TANGENT TO & GIRDER @ & BRG. STIFFENERS

* SEE NOTE "A"

SEE SHOP NOTE DRWG #1

GEN. NOTES SEE DRWG #1
 FOR WELD'IG INSPECTION SEE GEN. NOTES

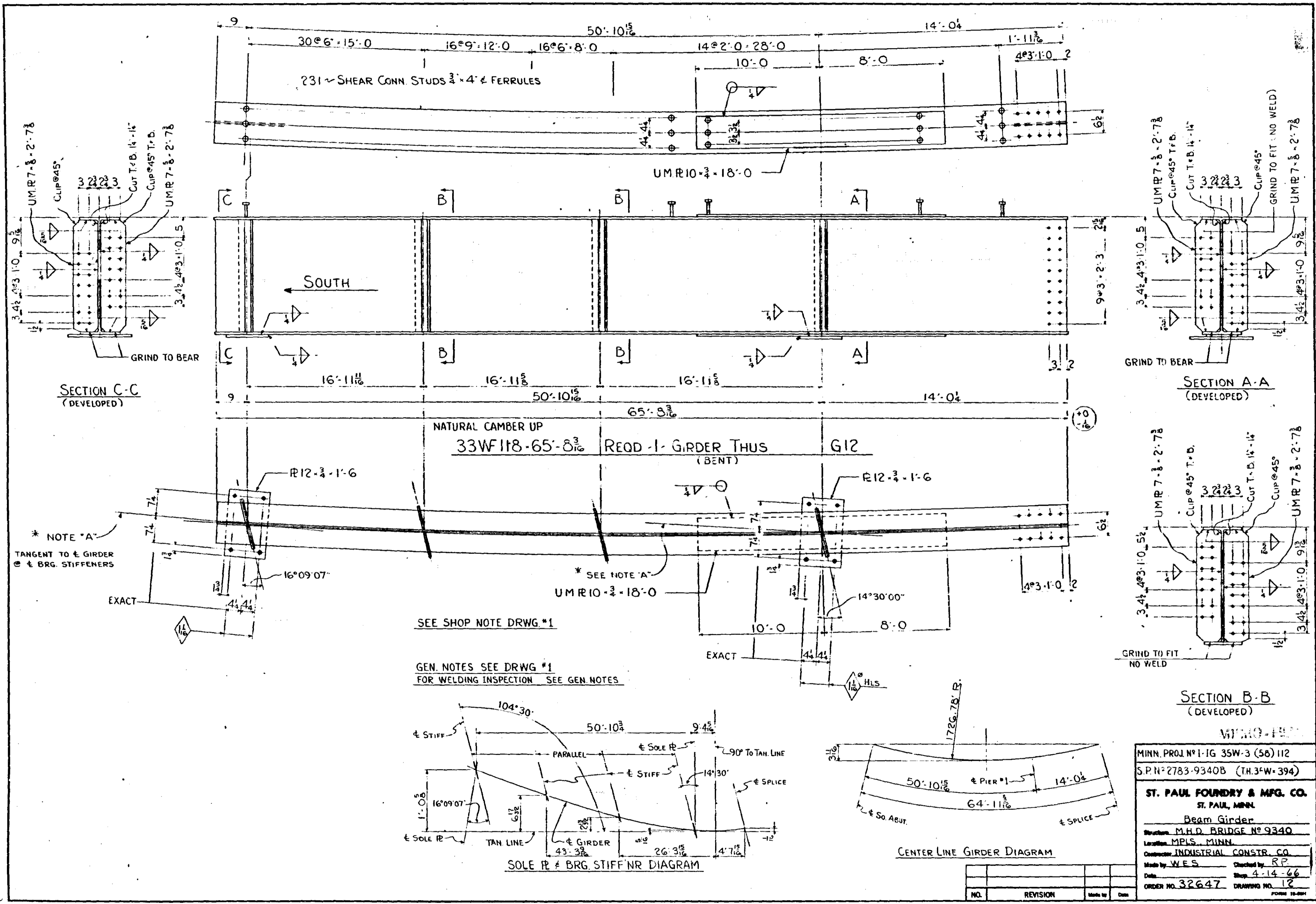


MINN. PROJ. # 1-IG 35W-3 (58) 112
 S.P.N. # 2763-9340B (TH. 35W-394)

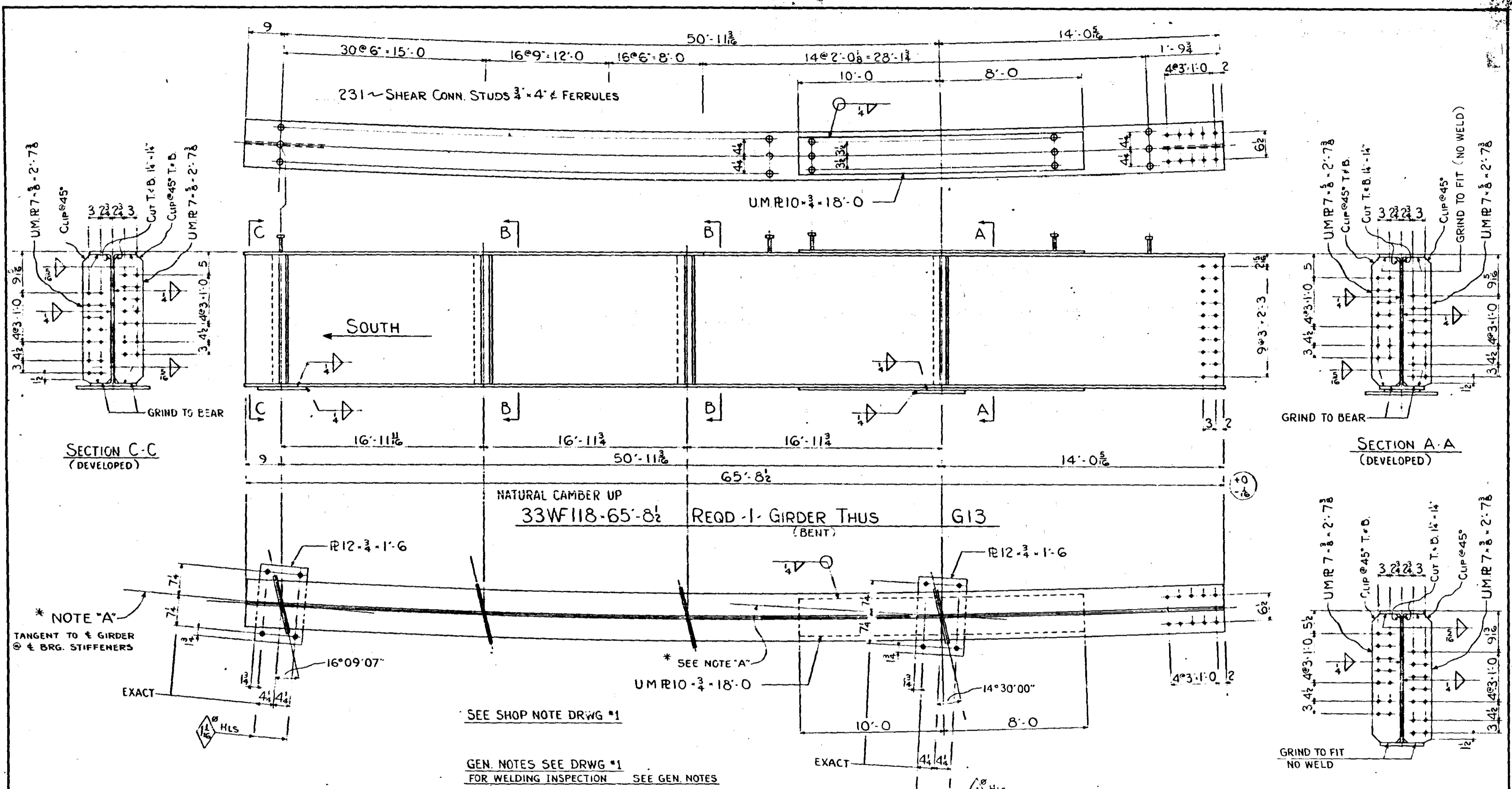
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

Beam Girder
 Structure: M.H.D. BRIDGE # 9340
 Location: MPLS., MINN.
 Contractor: INDUSTRIAL CONSTR. CO.
 Made by: WES Checked by: RP
 Date: 4-14-66 Shop: 4-14-66
 ORDER NO. 32647 DRAWING NO. 11

NO.	REVISION	Made by	Date



MINN. PROJ. N° 1-IG 35W-3 (56) 112			
S.P.N. 2783-9340B (TH. 35W-394)			
ST. PAUL FOUNDRY & MFG. CO.			
ST. PAUL, MINN.			
Beam Girder			
Structure: M.H.D. BRIDGE N° 9340			
Location: MPLS., MINN.			
Contractor: INDUSTRIAL CONSTR. CO.			
Made by: W.E.S.		Checked by: R.P.	
Date: 3-26-67		Shop: 4-14-66	
ORDER NO. 32647		DRAWING NO. 12	
NO.	REVISION	Made by	Date



SECTION C-C
(DEVELOPED)

SECTION A-A
(DEVELOPED)

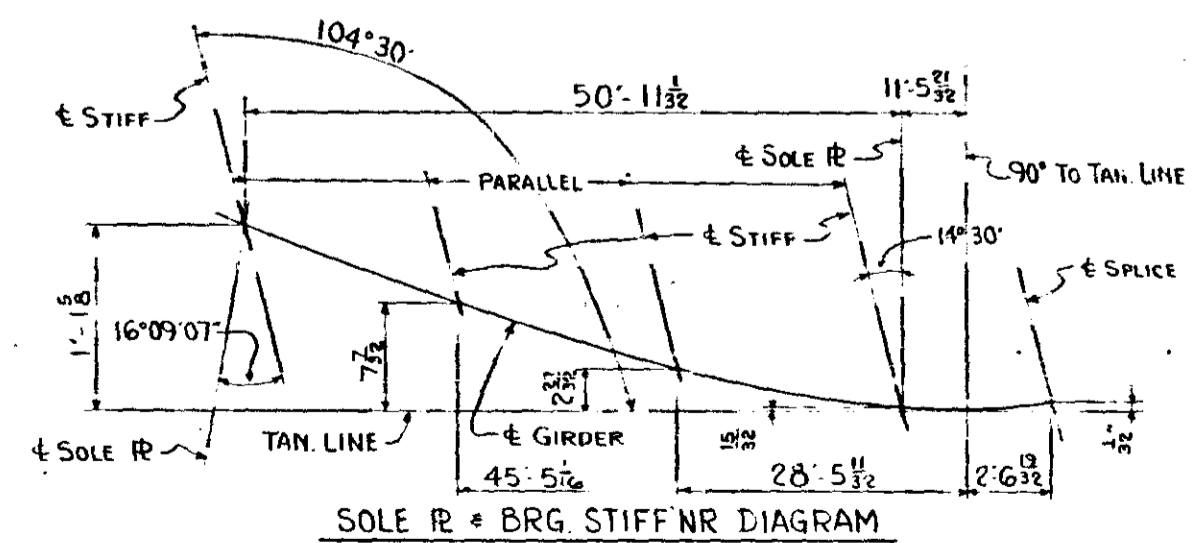
SECTION B-B
(DEVELOPED)

* NOTE "A"
TANGENT TO ϵ GIRDER
& ϵ BRG. STIFFENERS

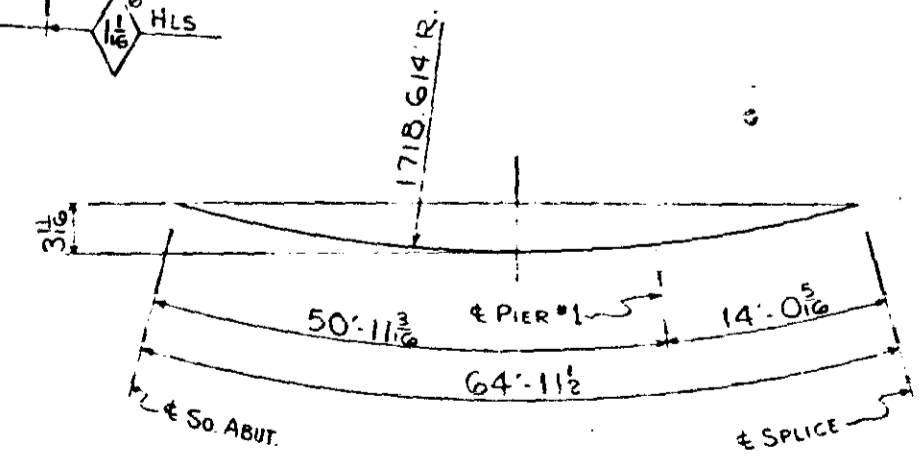
* SEE NOTE "A"

SEE SHOP NOTE DRWG #1

GEN. NOTES SEE DRWG #1
FOR WELDING INSPECTION SEE GEN. NOTES



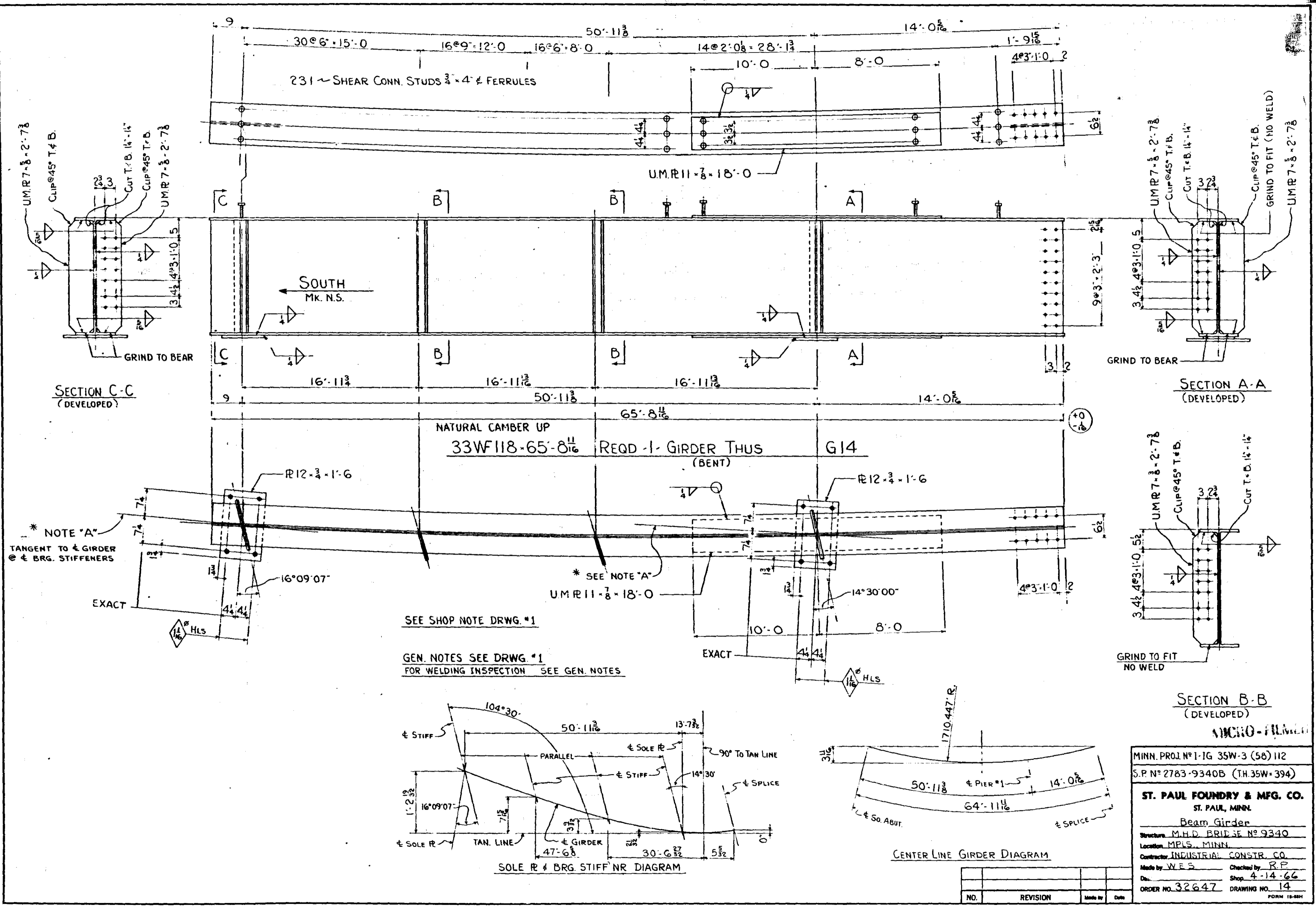
SOLE R = BRG. STIFFNR DIAGRAM



CENTER LINE GIRDER DIAGRAM

MINN. PROJ. N° 1-IG 35W-3 (S6) 112
 S.P.N° 2783-9340B (TH. 35W-394)
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.
 Beam Girder
 Structure M.H.D. BRIDGE N° 9340
 Location MPLS. MINN.
 Contractor INDUSTRIAL CONSTR. CO.
 Made by WES Checked by R.P.
 Date 4-14-66
 ORDER NO. 32647 DRAWING NO. 13
 FORM 16-66T

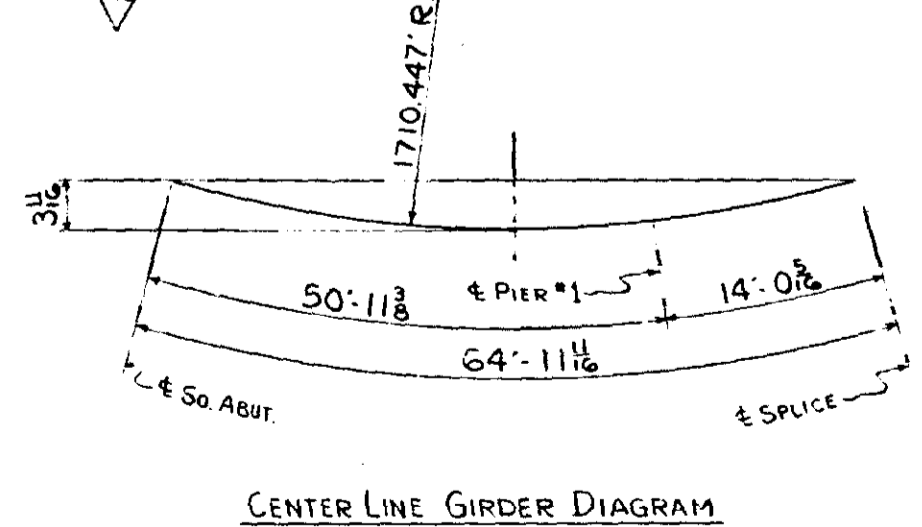
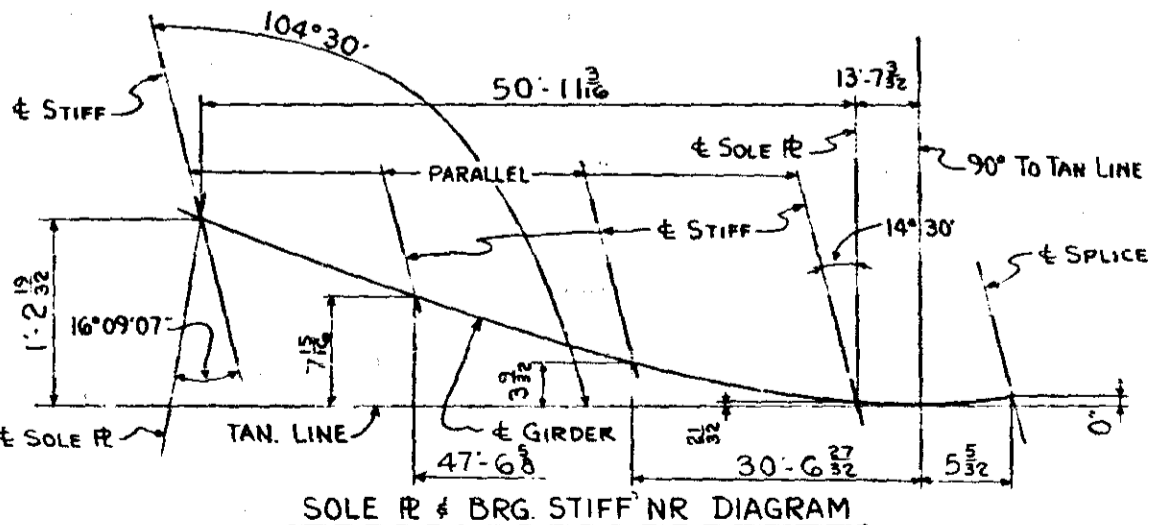
NO.	REVISION	Made by	Date



* NOTE "A"
TANGENT TO & GIRDER
& BRG. STIFFENERS

SEE SHOP NOTE DRWG. #1

GEN. NOTES SEE DRWG. #1
FOR WELDING INSPECTION SEE GEN. NOTES



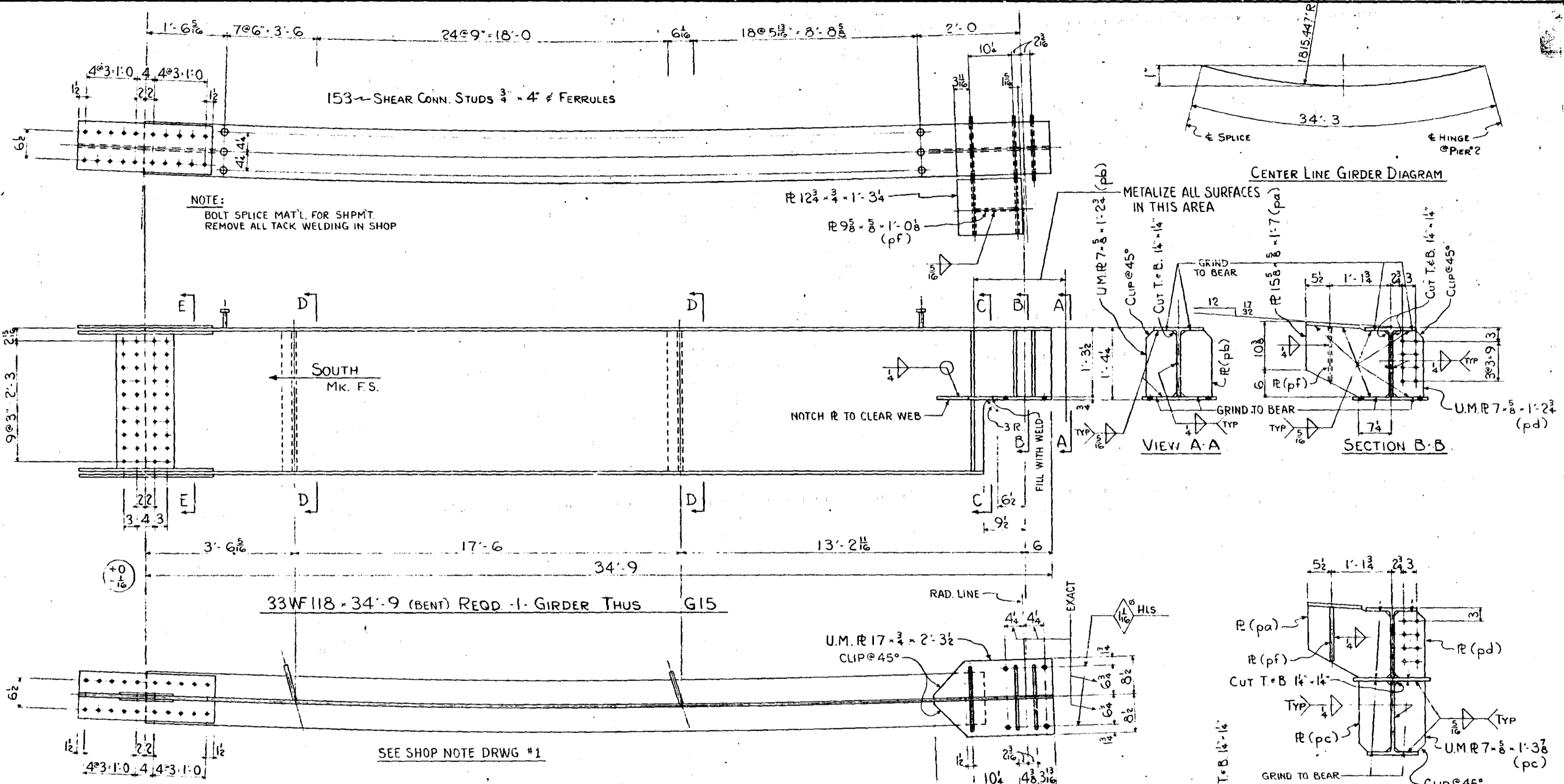
NO.	REVISION	Made by	Date

MINN. PROJ. N° 1-IG 35W-3 (56) 112
S.P. N° 2783-9340B (TH. 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

Beam Girder
Structure M.H.D. BRIDGE N° 9340
Location MPLS. MINN.
Contractor INDUSTRIAL CONSTR. CO.
Made by WES Checked by RP
Dr. 4-14-66 Shop 4-14-66
ORDER NO. 32647 DRAWING NO. 14

FORM 15-54H



NOTE:
BOLT SPLICE MAT'L FOR SHPMT.
REMOVE ALL TACK WELDING IN SHOP

CENTER LINE GIRDER DIAGRAM

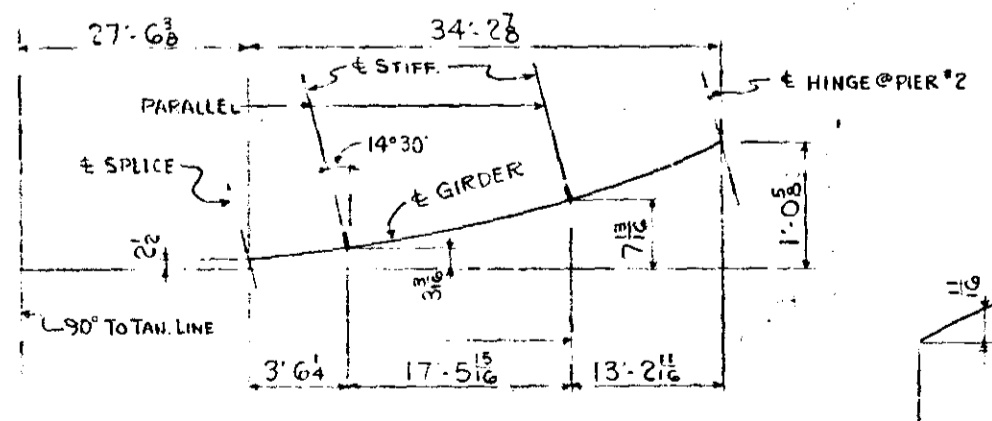
VIEW A-A

SECTION B-B

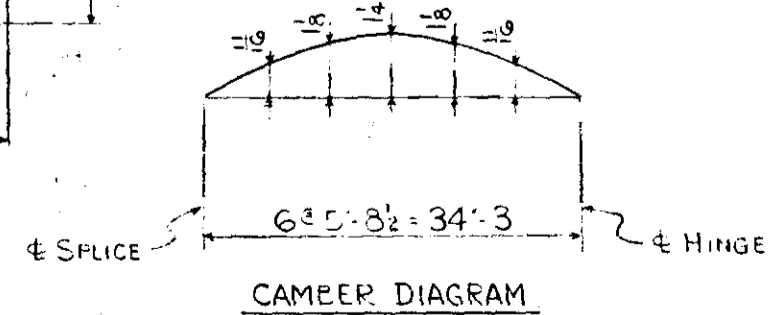
SECTION C-C

SECTION E-E

GEN. NOTES SEE DRWG #1
FOR WELD INSPECTION SEE GEN NOTES
METALLIZING AS PER M.H.D. 2471.3L4B (NO PAINT IN THIS AREA)



STIFFER DIAGRAM (CONT.)
SEE DRWG. #1

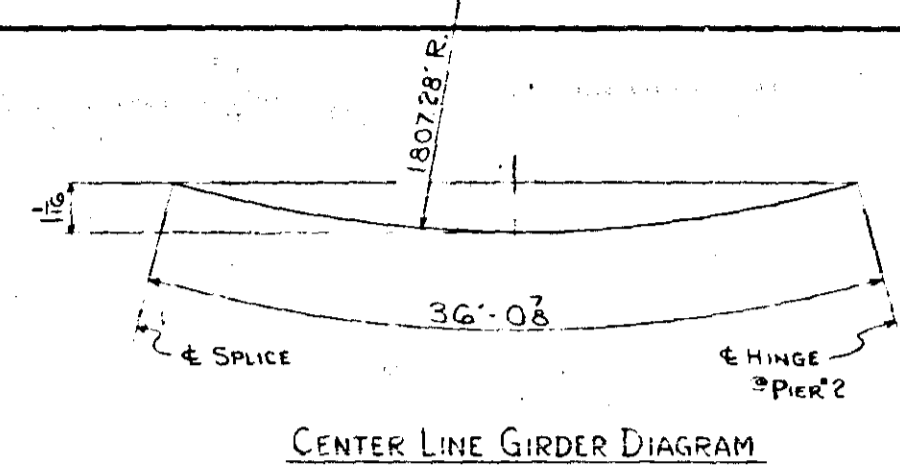
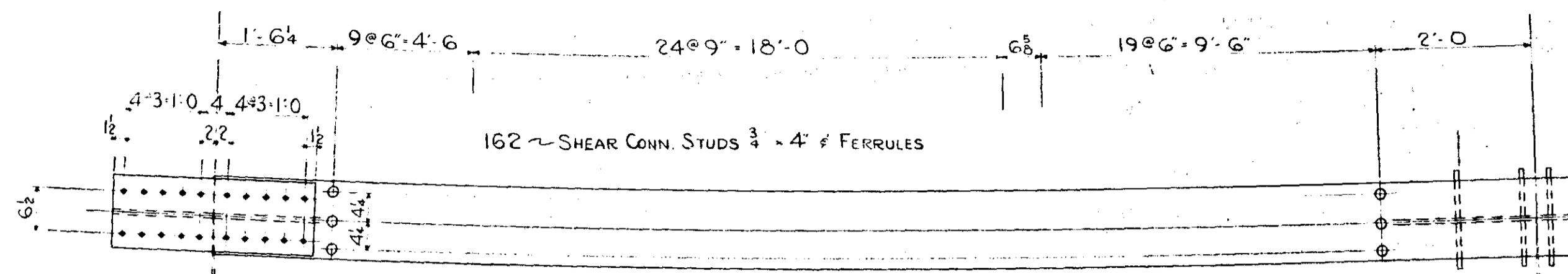


CAMBER DIAGRAM

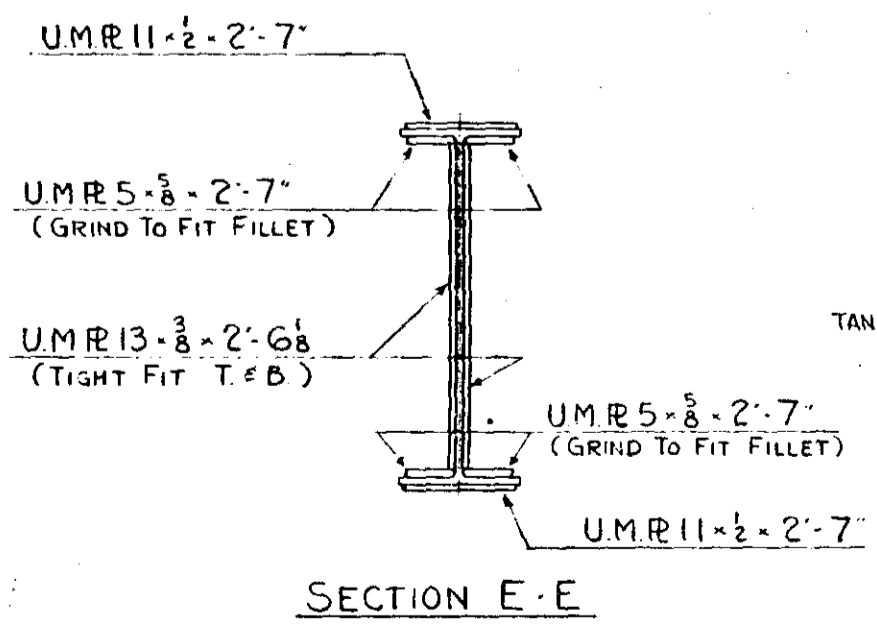
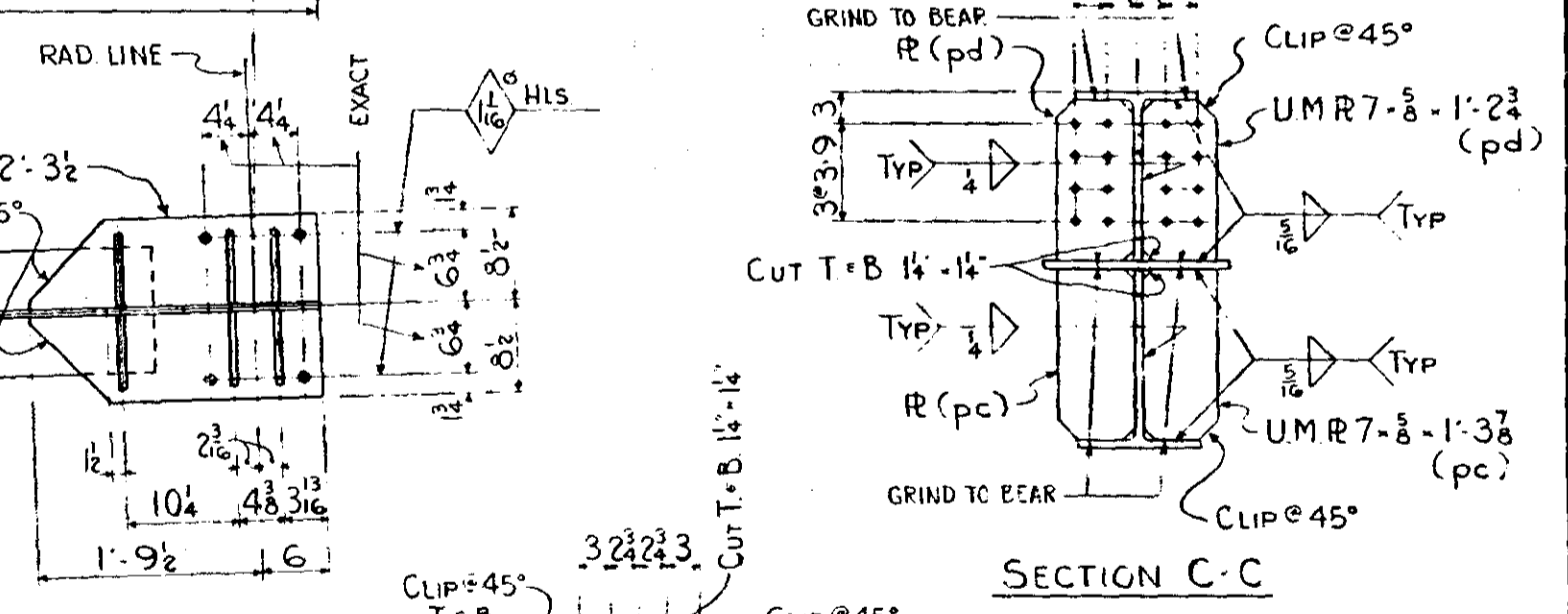
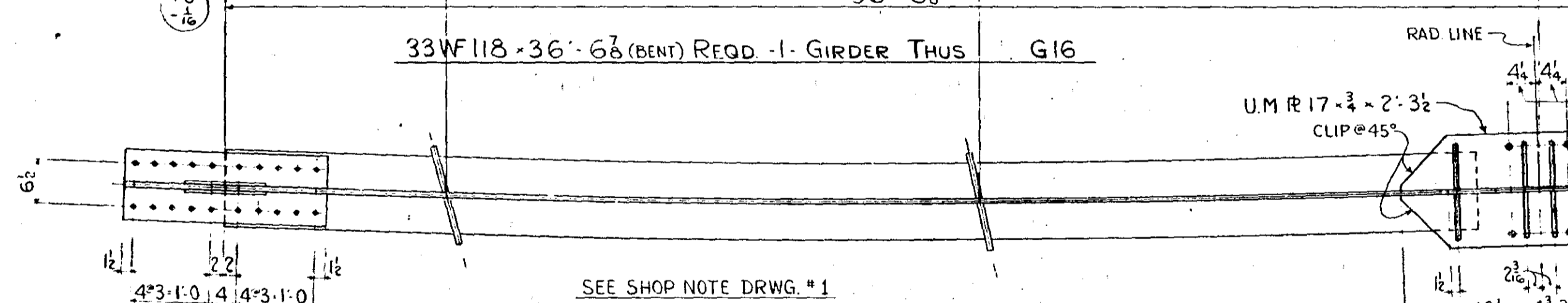
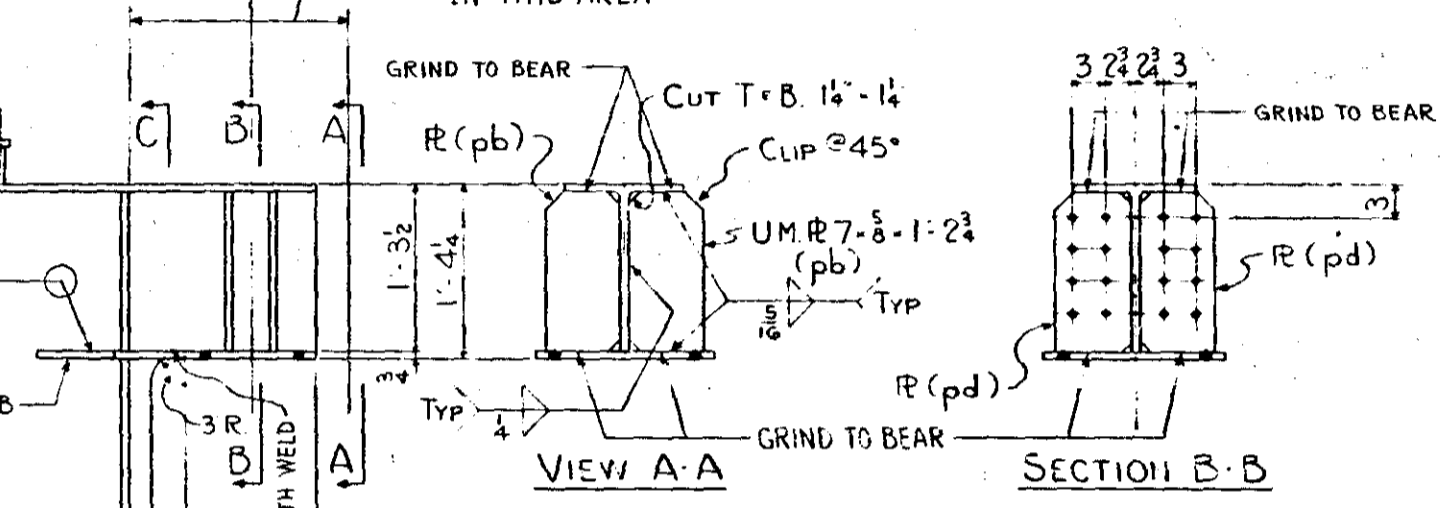
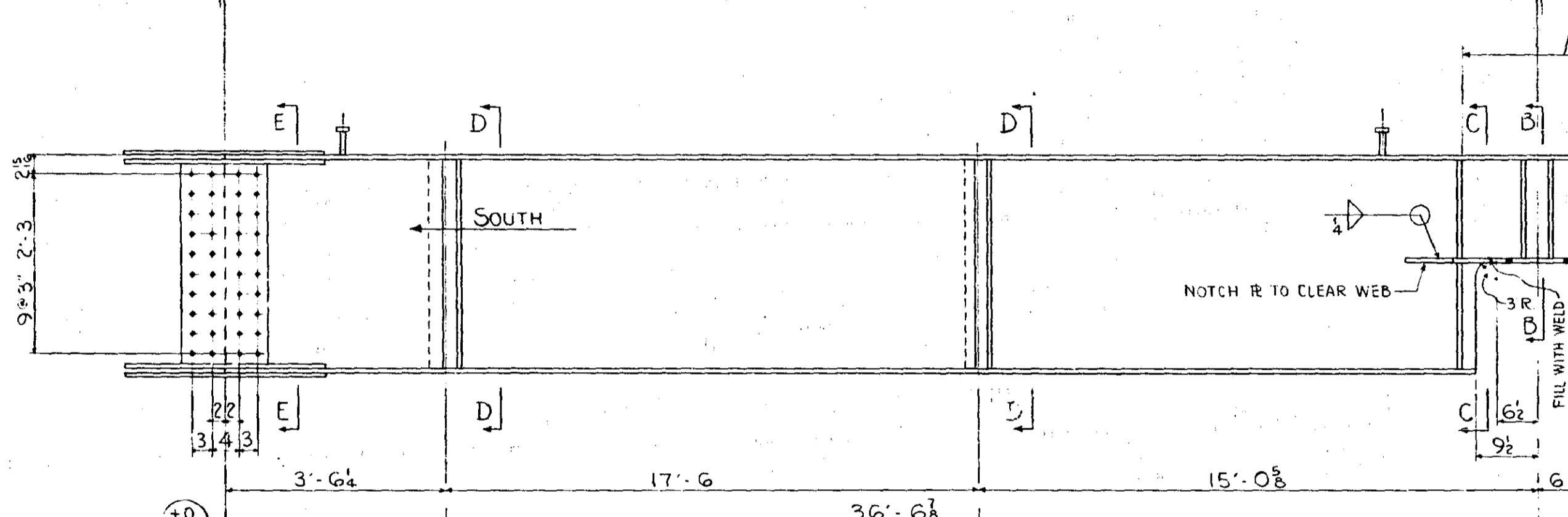
SECTION D-D
(DEVELOPED)

MINN. PROJ. NO. I-1G 35W-3 (58) 112	
S.P. NO. 2783-9340B (TH. 35W-394)	
ST. PAUL FOUNDRY & MFG. CO.	
ST. PAUL, MINN.	
Beam Girder	
Structure M.H.D. BRIDGE NO. 9340	
Location MPLS., MINN.	
Contractor INDUSTRIAL CONSTR. CO.	
Made by WES	Checked by J.P.
Date 4-14-66	Shop 4-14-66
ORDER NO. 32647	DRAWING NO. 15
NO.	REVISION

NO.	REVISION	Made by	Date



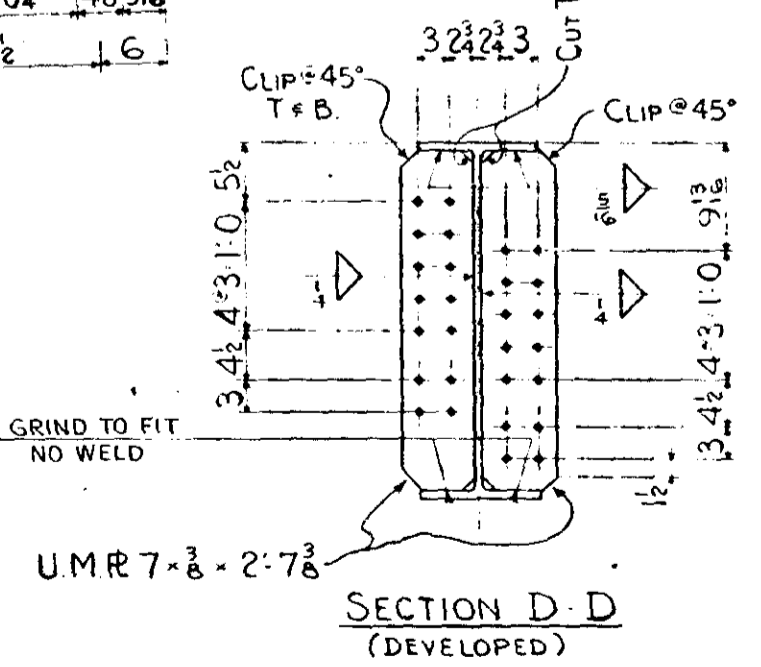
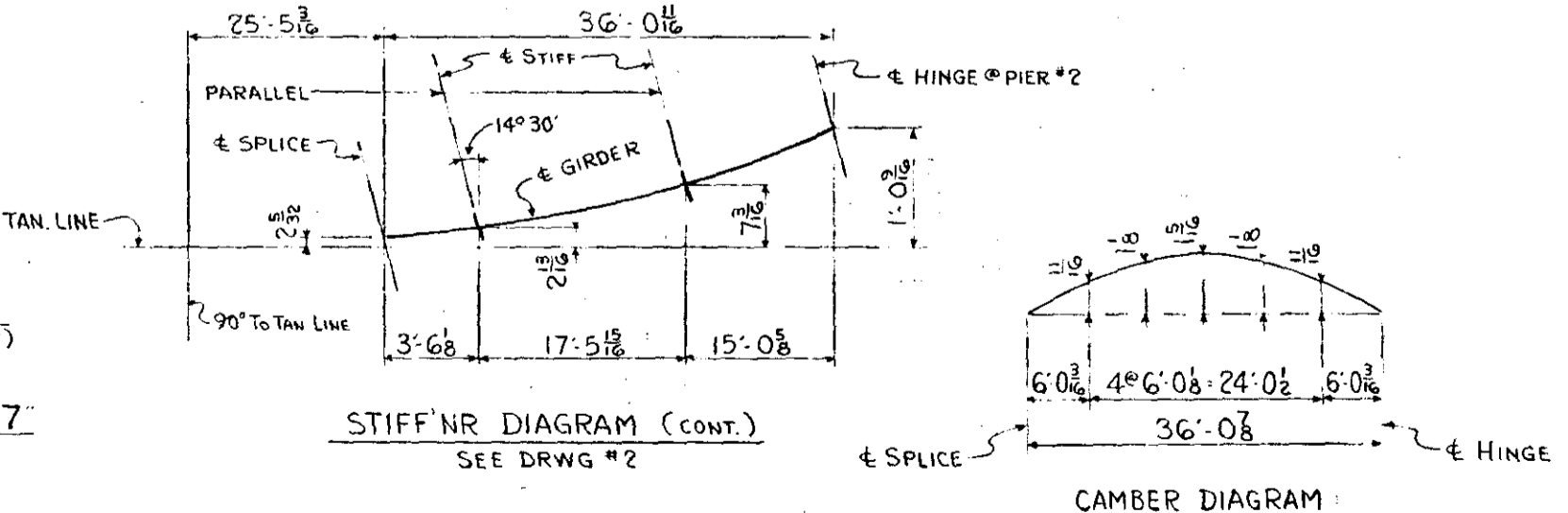
NOTE:
BOLT SPLICE MATL. FOR SHPMNT.
REMOVE ALL TACK WELDING IN SHOP



SEE SHOP NOTE DRWG. #1

GEN. NOTES SEE DRWG. #1

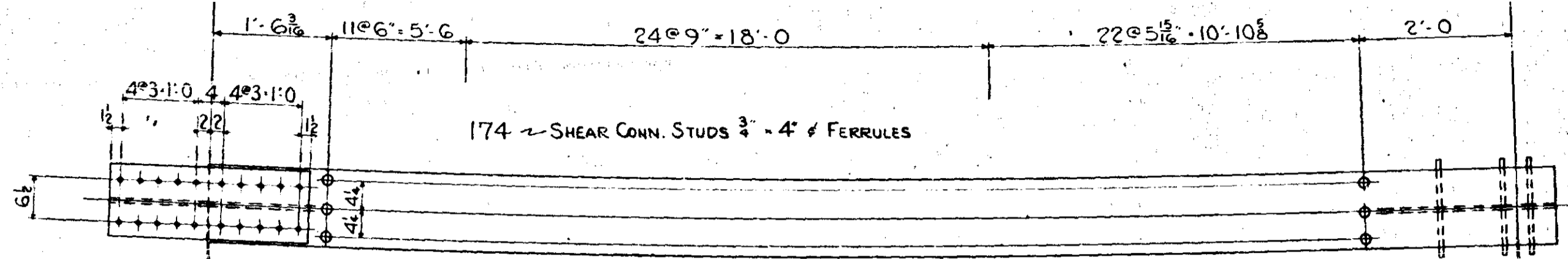
FOR WELDING INSPECTION SEE GEN. NOTES
METALLIZING AS PER M.H.D. 2471.3L4B (NO PAINT IN THIS AREA)



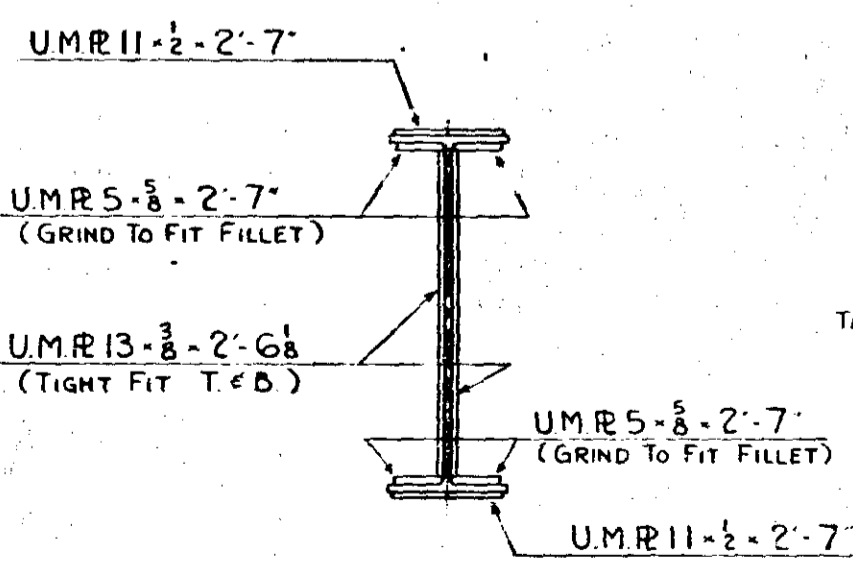
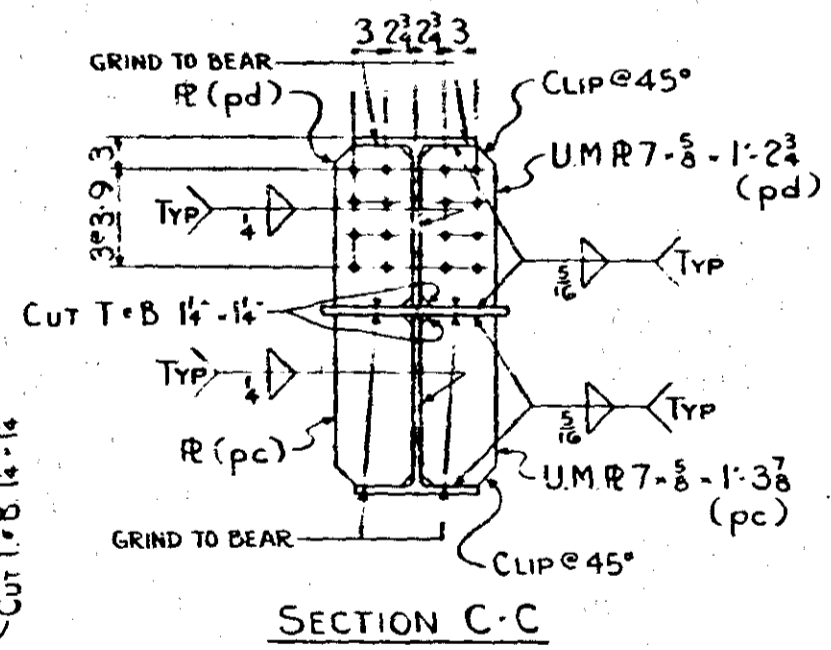
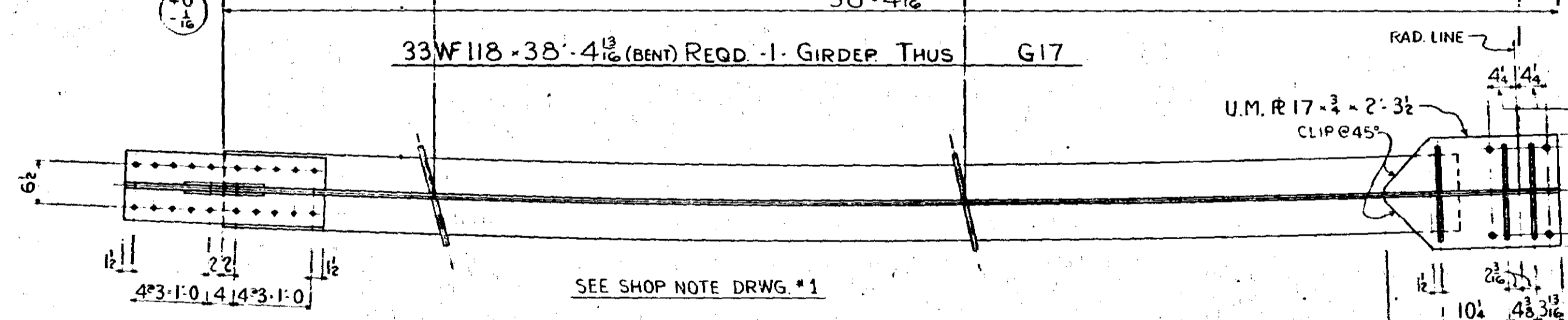
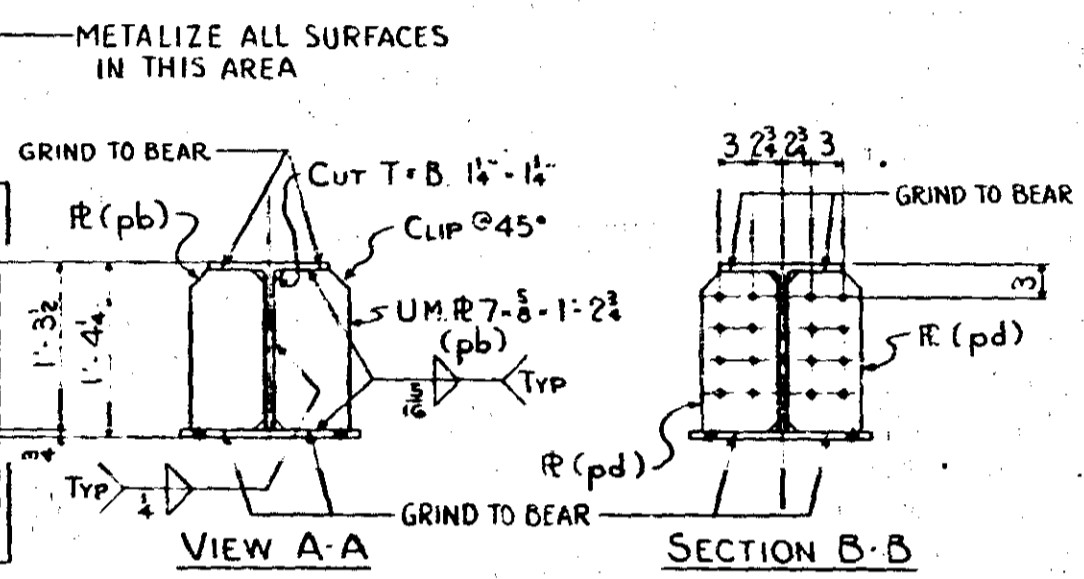
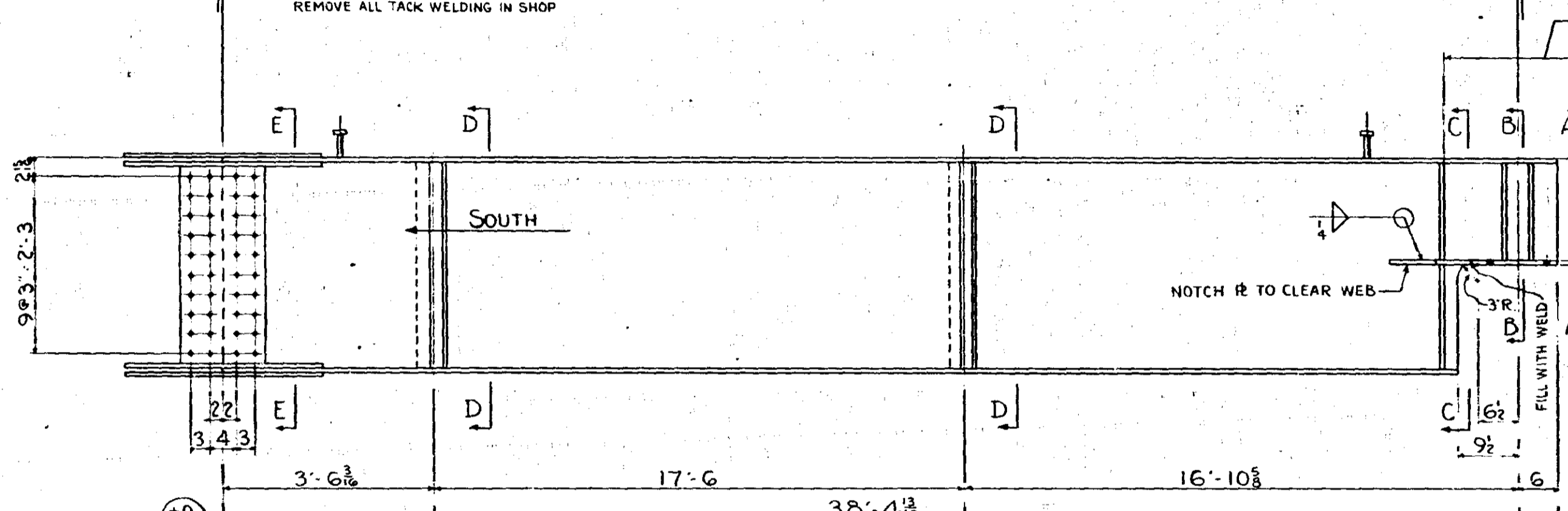
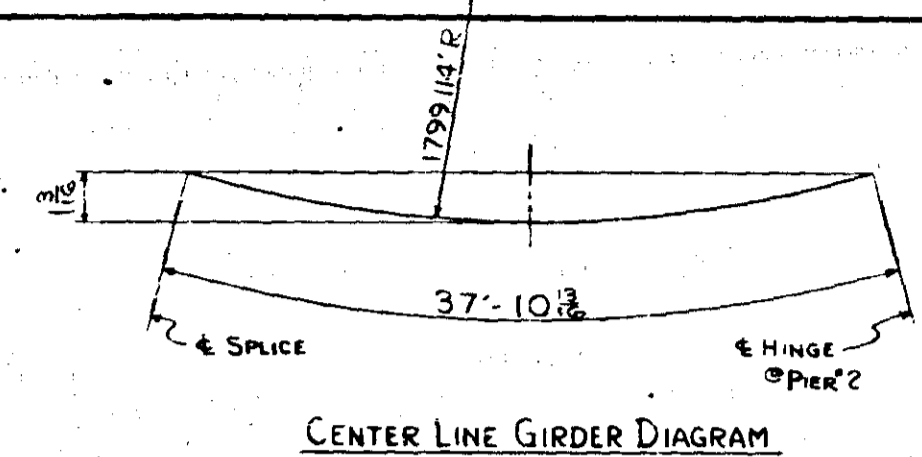
MURPHY

MINN PROJ N° I-16 35W-3 (58) 112	
S.P. N° 2733-9340B (TH. 35W-394)	
ST. PAUL FOUNDRY & MFG. CO. ST. PAUL, MINN.	
Beam Girder	
Structure M.H.D. BRIDGE N° 9340	
Location MPLS., MINN.	
Contractor INDUSTRIAL CONSR. CO.	
Made by VES	Checked by R.F.
Date	Shop 4-14-66
ORDER NO. 32647	DRAWING NO. 16
NO.	REVISION Made by Date

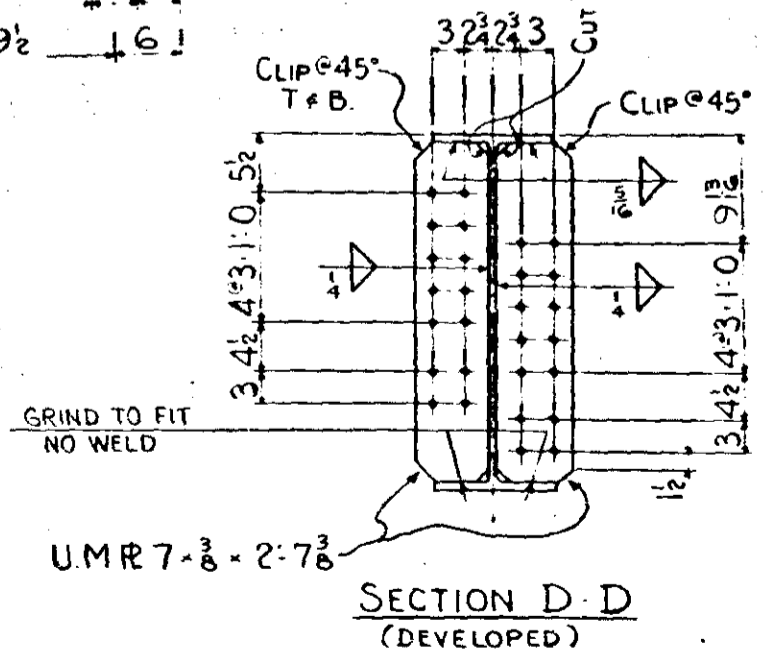
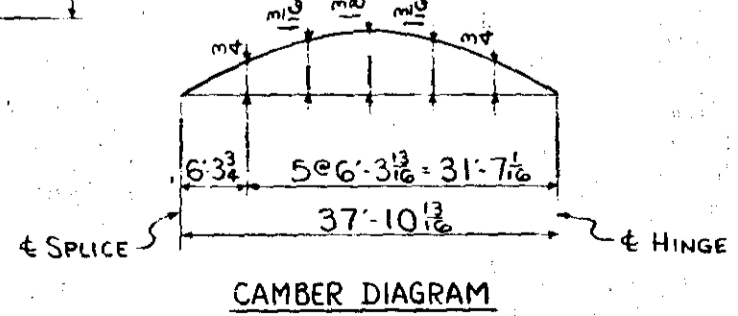
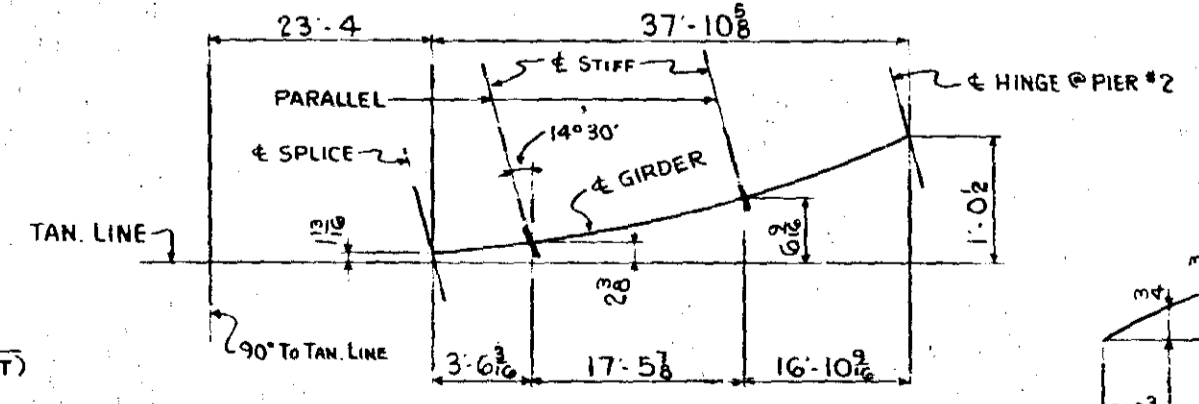
FORM 18-851



NOTE:
BOLT SPLICE MATL FOR SHPMT.
REMOVE ALL TACK WELDING IN SHOP

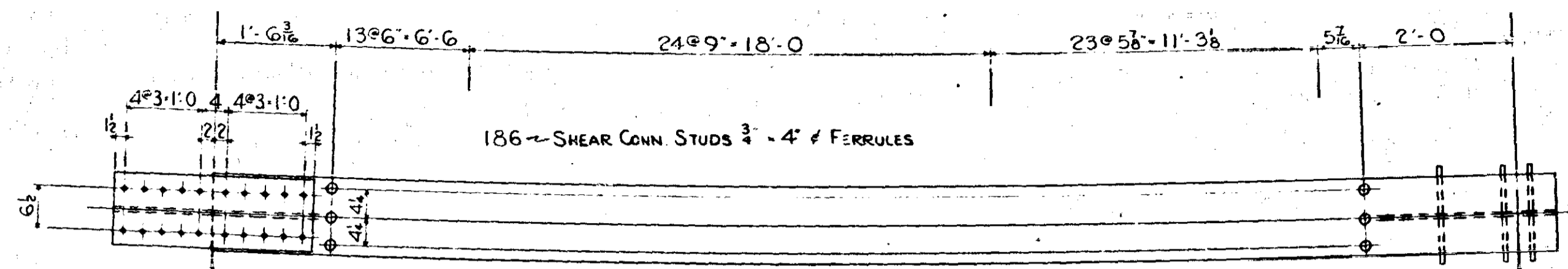


SEE SHOP NOTE DRWG. #1
GEN. NOTES SEE DRWG. #1
FOR WELDING INSPECTION SEE GEN NOTES
METALLIZING AS PER M.H.D. 2471.3L4B (NO PAINT IN THIS AREA)

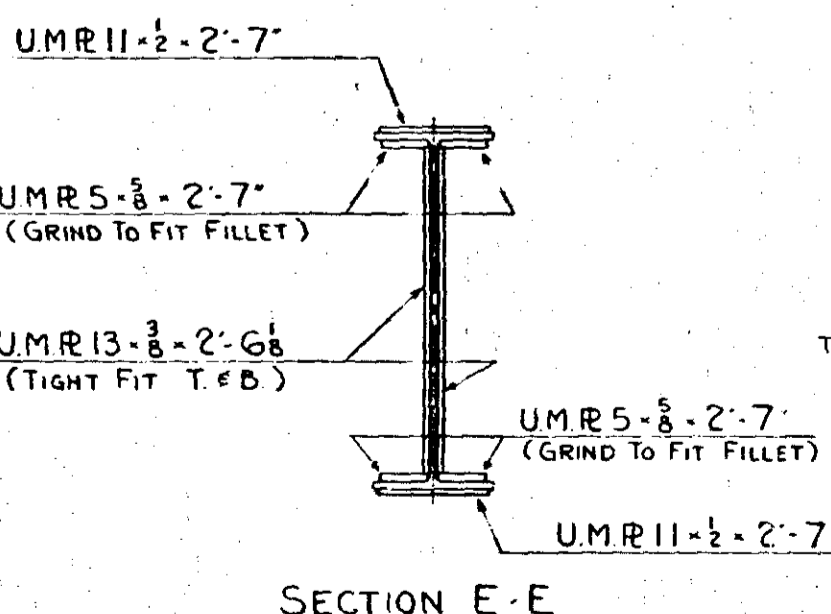
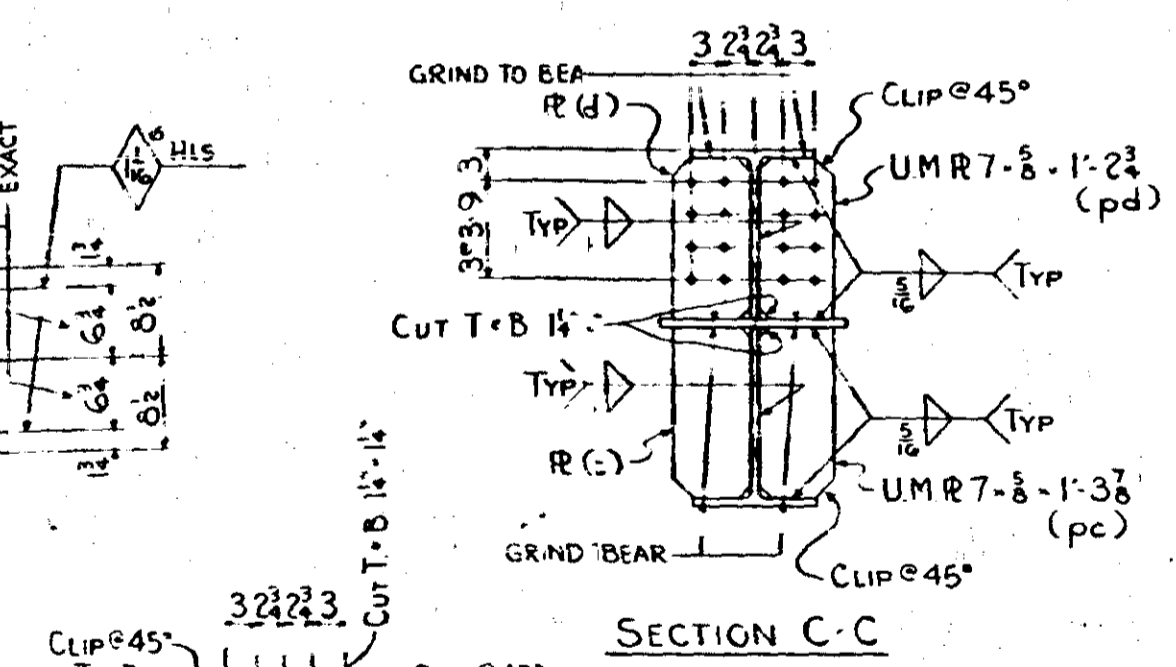
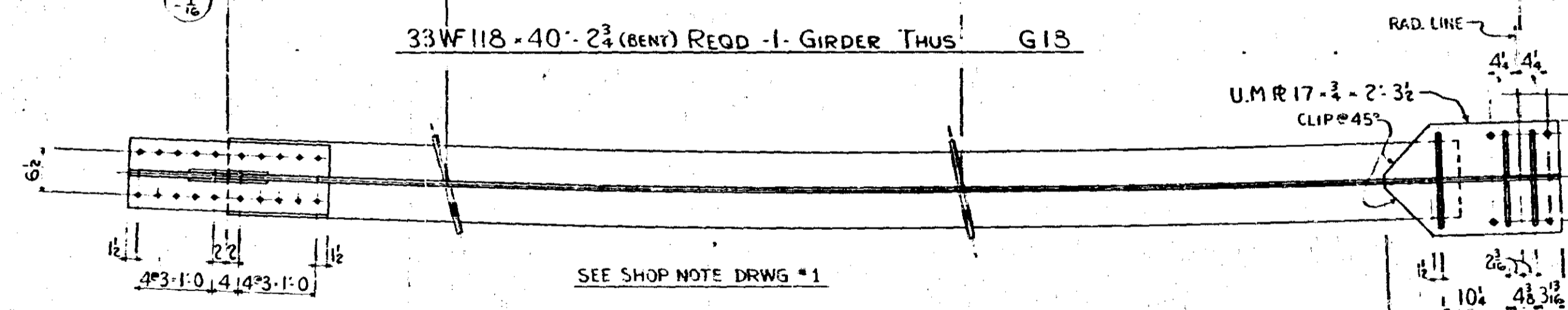
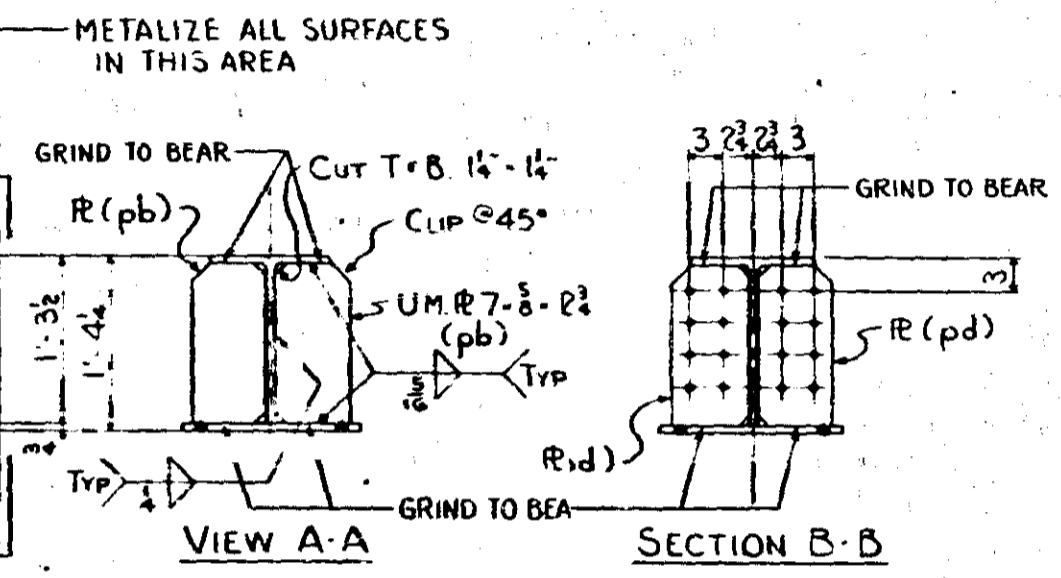
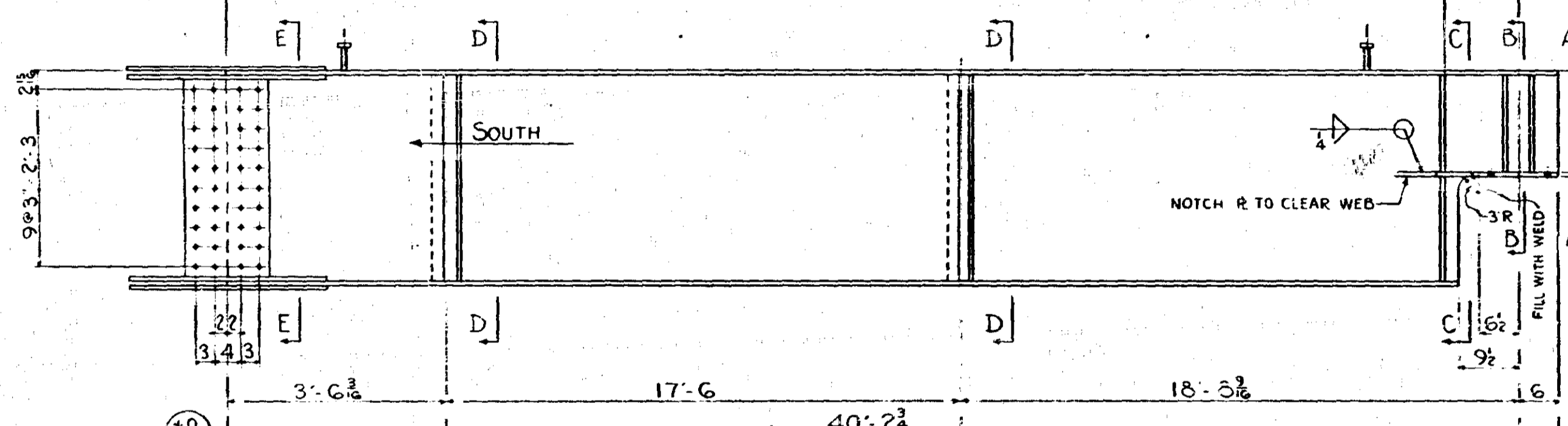
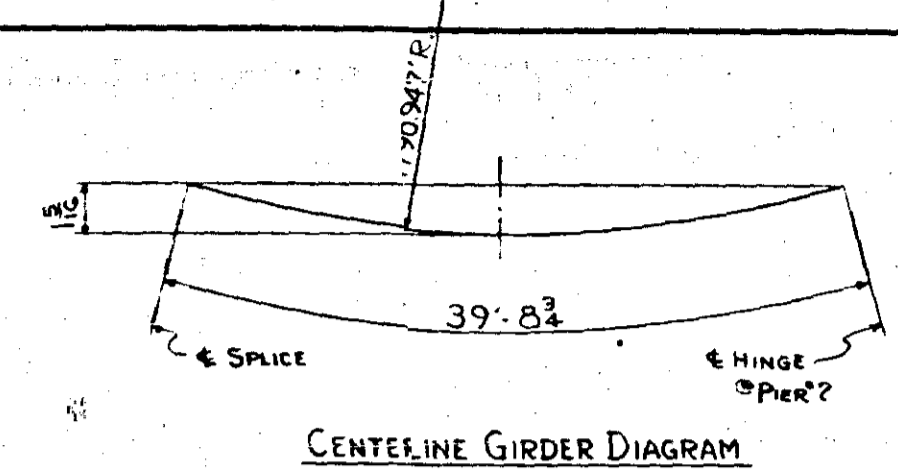


MINN PROJ N° I-1G 35W-3 (5B) 112
S.P.N° 2783-9340B (TH. 35W-394)
ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.
Beam Girder
Structure M.H.D. BRIDGE N° 9340
Location MPLS., MINN.
Contractor INDUSTRIAL CONSTR. CO.
Made by WES Checked by RP
Date 4-14-66 Shop 4-14-66
ORDER NO. 32647 DRAWING NO. 17

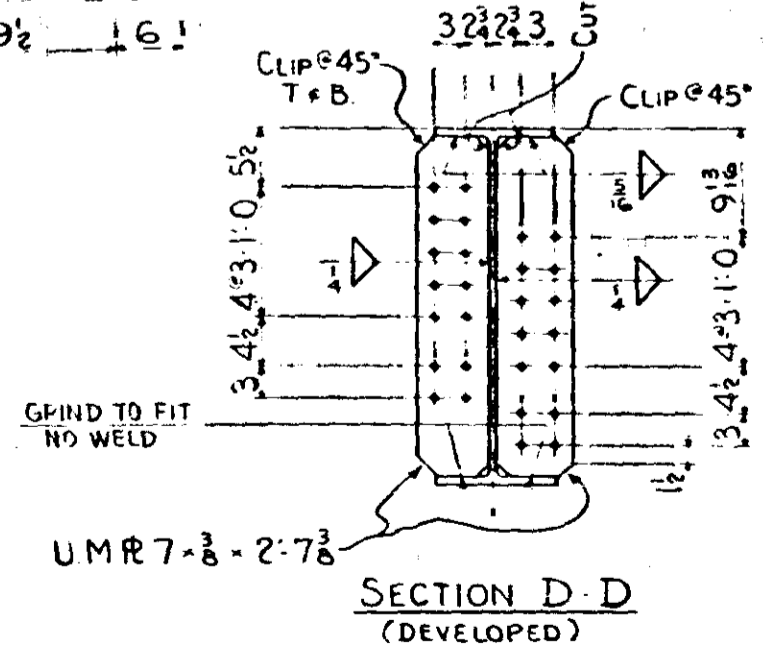
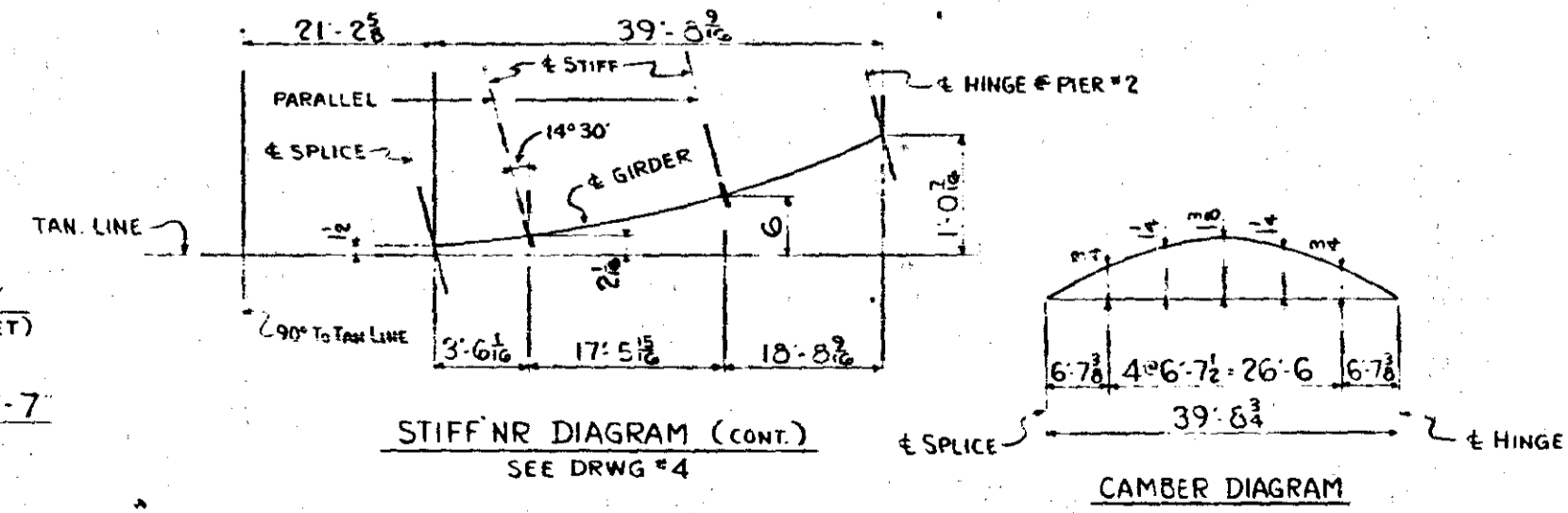
NO.	REVISION	Made by	Date



NOTE:
BOLT SPLICE MATL FOR SHPMT.
REMOVE ALL TACK WELDING IN SHOP

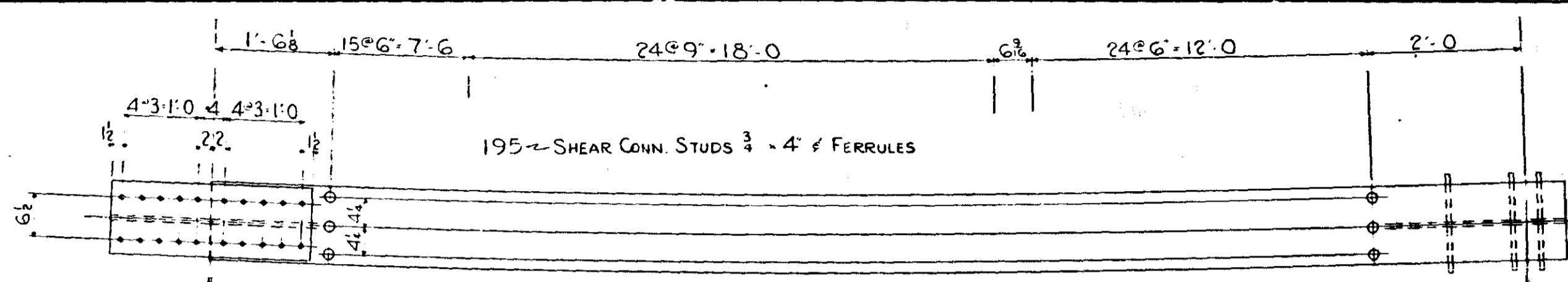


SEE SHOP NOTE DRWG #1
GEN NOTES SEE DRWG #1
FOR WELDING INSPECTION SEE GEN. NOTES
METALLIZING AS PER M.H.D. 2471.3L4B (NO PAINT IN THIS AREA)

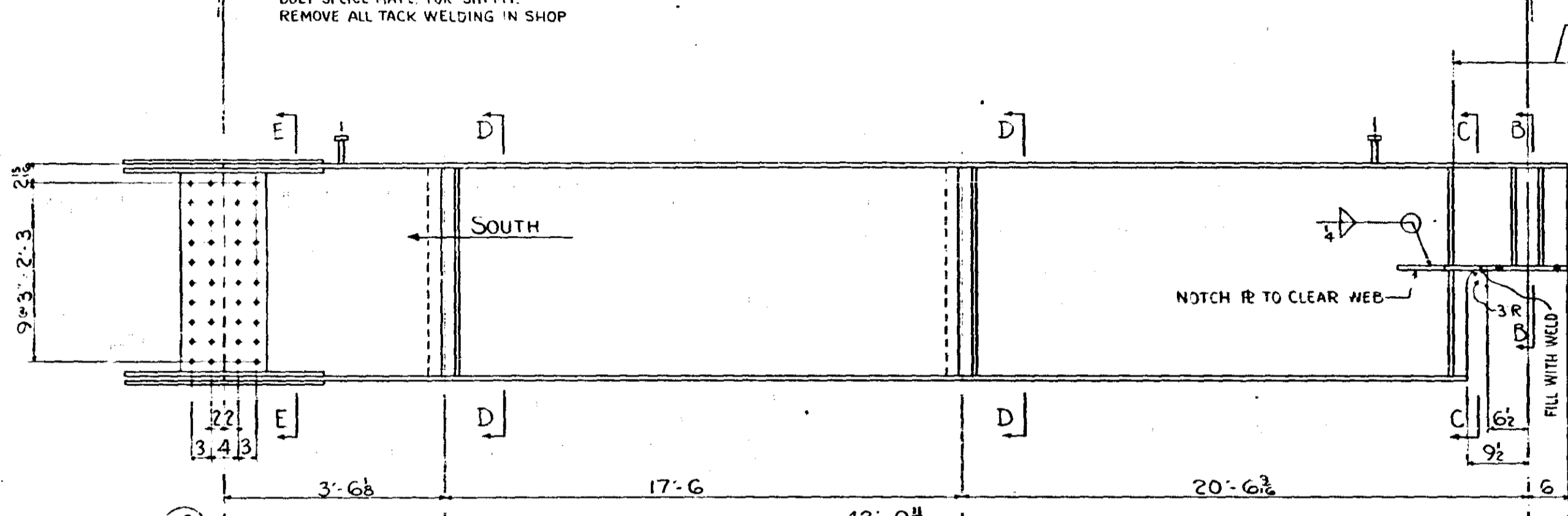
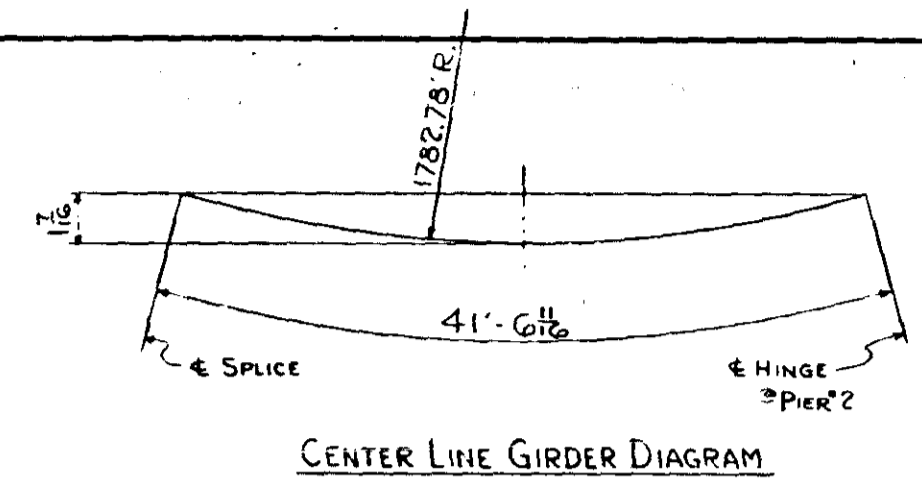


MINN PROJ N° I-16 35W-3 (58) 112	
S.P. N° 2753-9340B (TH. 35W-394)	
ST. PAUL FOUNDRY & MFG. CO.	
ST. PAUL, MINN.	
Beam Girder	
Structure M.H.D. BRIDGE N° 9340	
Location MPLS., MINN.	
Contractor INDUSTRIAL CONSTR. CO.	
Made by WES	Checked by R.P.
Date 4-14-66	Shop 4-14-66
ORDER NO. 32647	DRAWING NO. 18

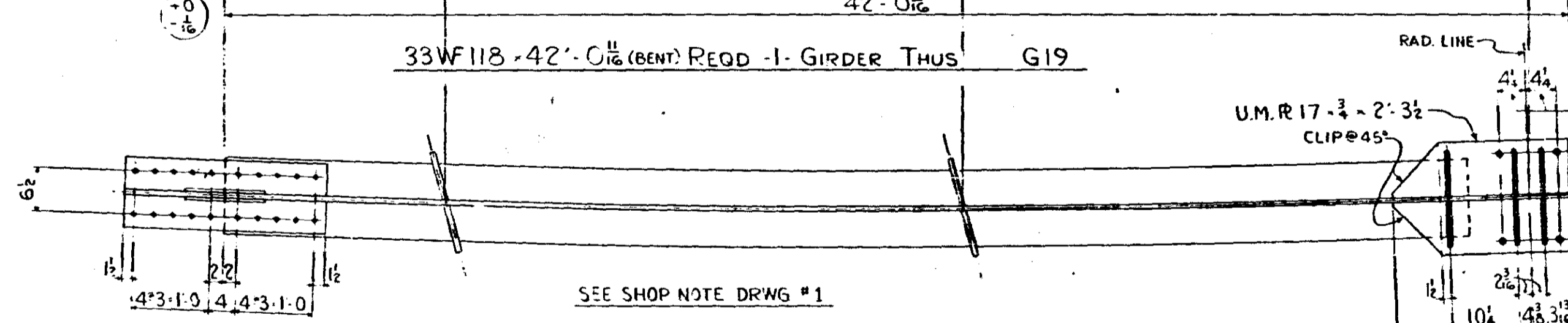
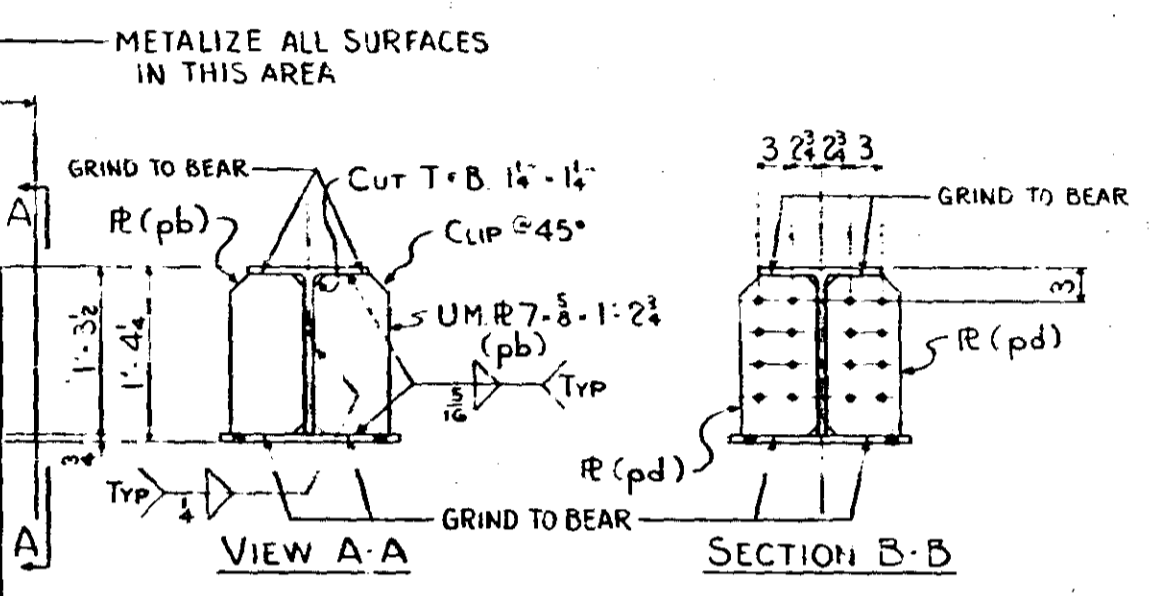
NO.	REVISION	Made by	C



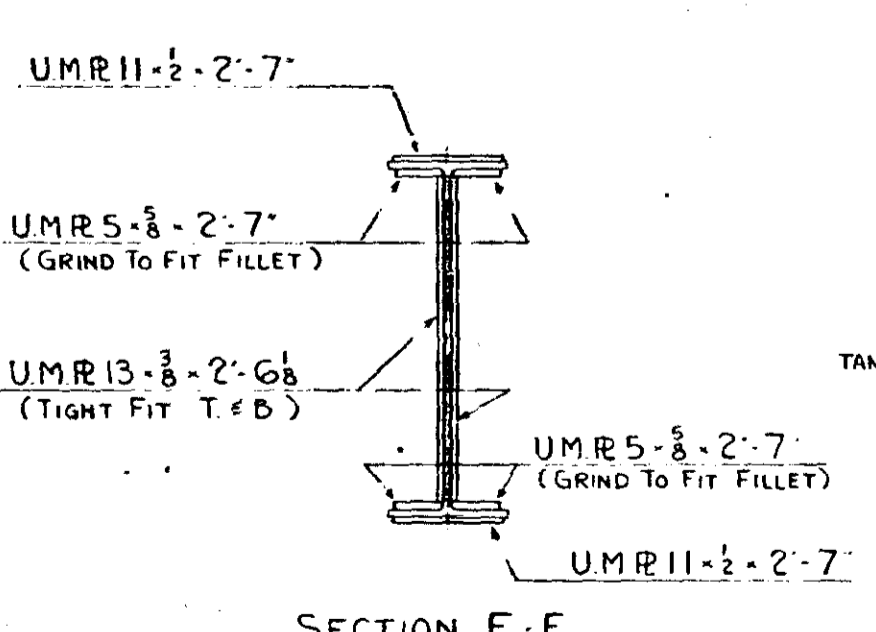
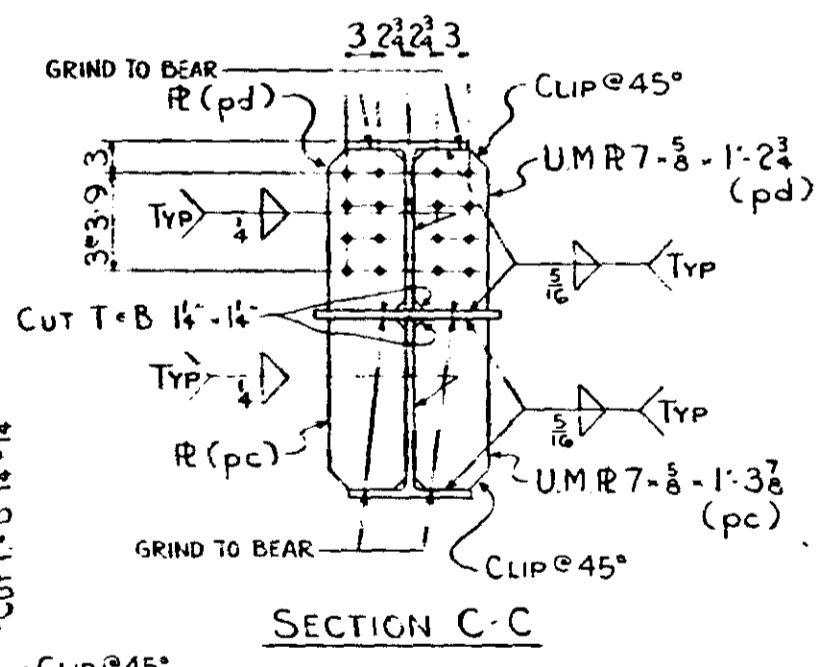
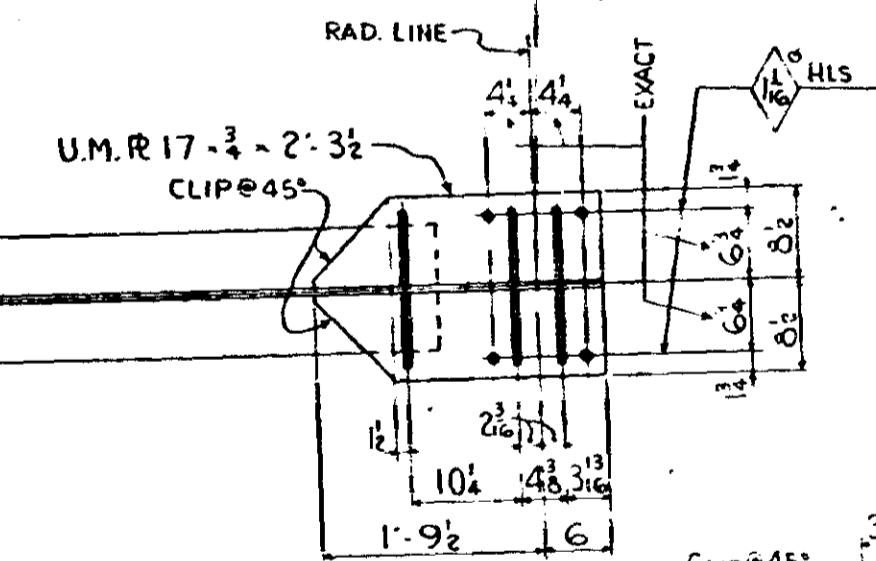
NOTE:
BOLT SPLICE MATL. FOR SHPMT.
REMOVE ALL TACK WELDING IN SHOP



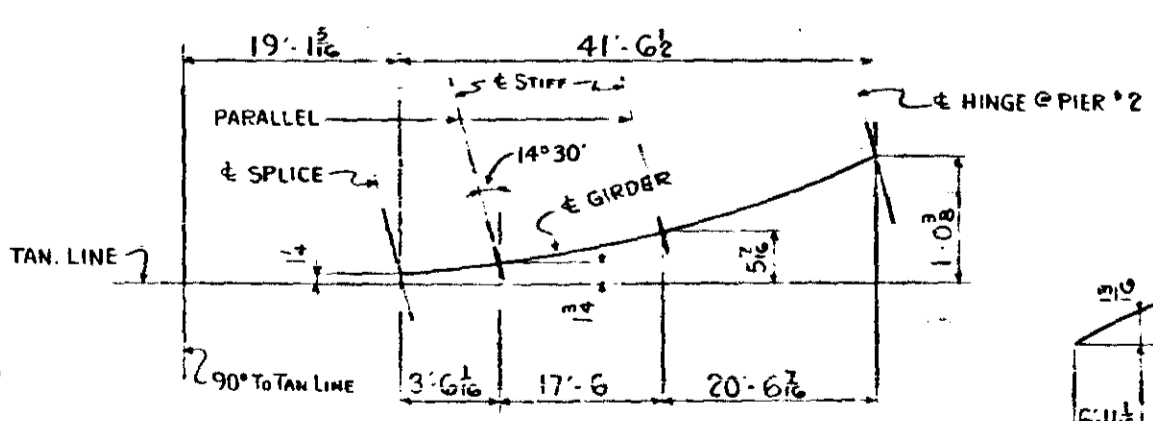
33W118 - 42'-0 1/8 (BENT) REOD - 1- GIRDER THUS G19



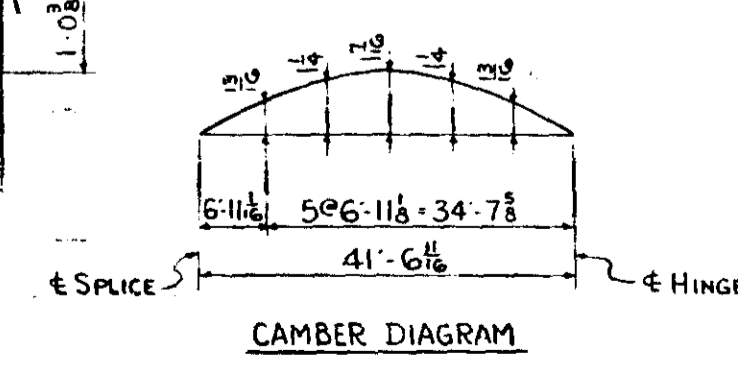
SEE SHOP NOTE DRWG #1



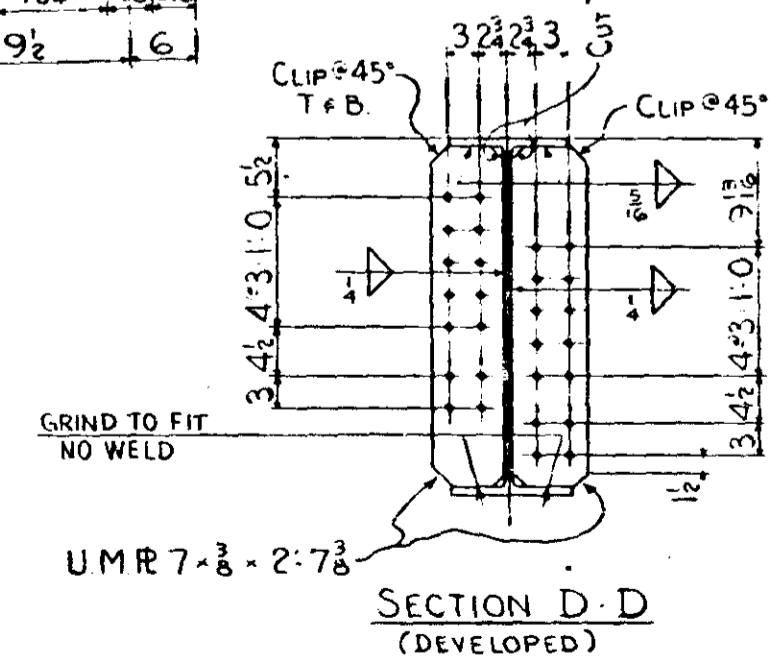
GEN. NOTES SEE DRWG #1
FOR WELDING INSPECTION SEE GEN. NOTES
METALLIZING AS PER M.H.D. 2471.3L4B (NO PAINT IN THIS AREA)



STIFF NR DIAGRAM (CONT.)
SEE DRWG #5



CAMBER DIAGRAM

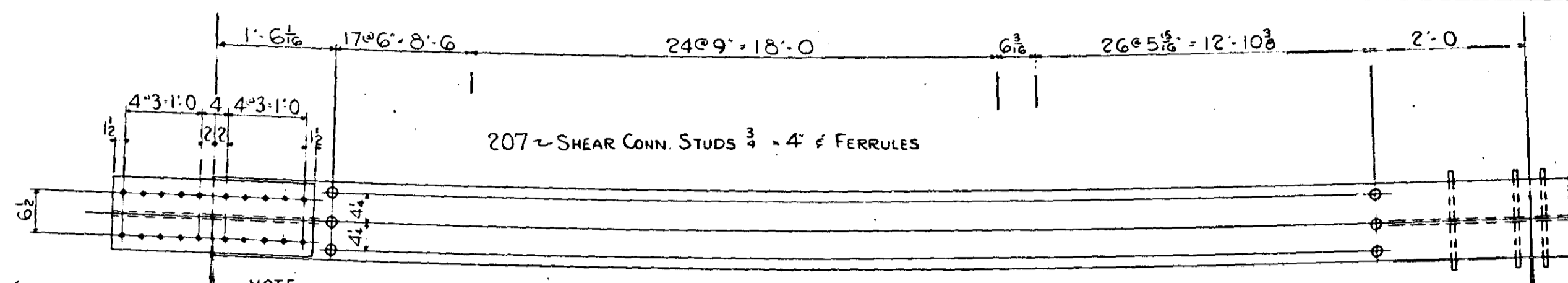


SECTION D-D
(DEVELOPED)

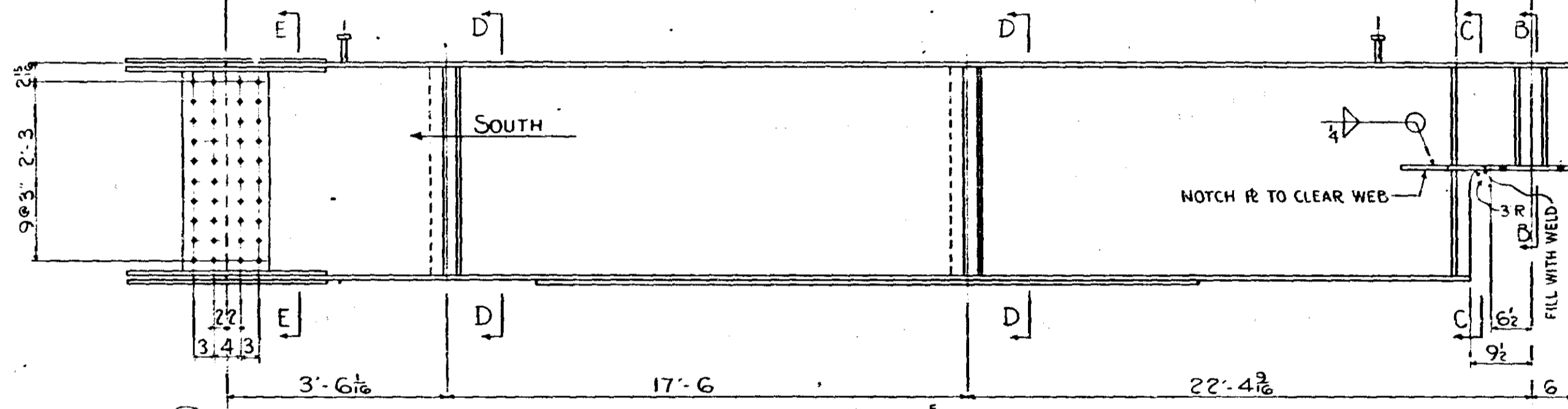
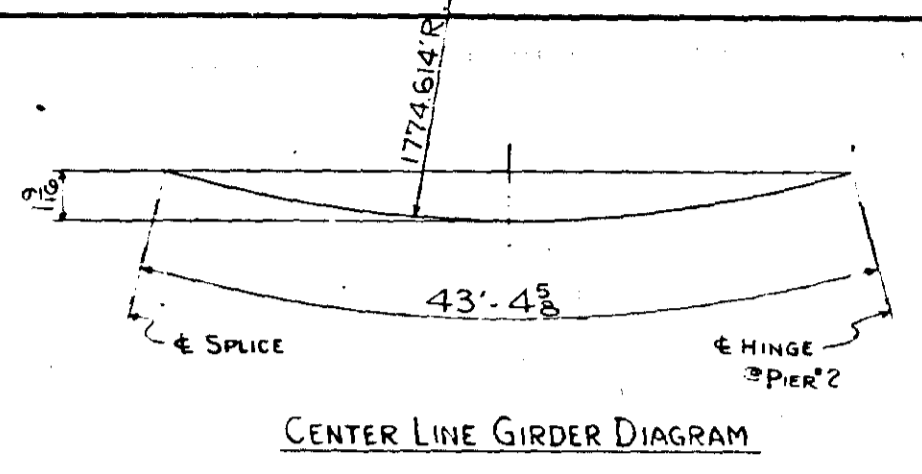
MICRO-FIL

MINN PROJ NO I-IG 35W-3 (58) 112
S.P. #2735-9540B (TH 35W-394)
ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.
Beam Girder
Structure M.H.D. BRIDGE NO 9340
Location MPLS., MINN.
Contractor INDUSTRIAL CONSTR. CO.
Made by WES Checked by R.P.
Date 4-14-66 Shop 4-14-66
ORDER NO 32647 DRAWING NO 19
FORM 19-65H

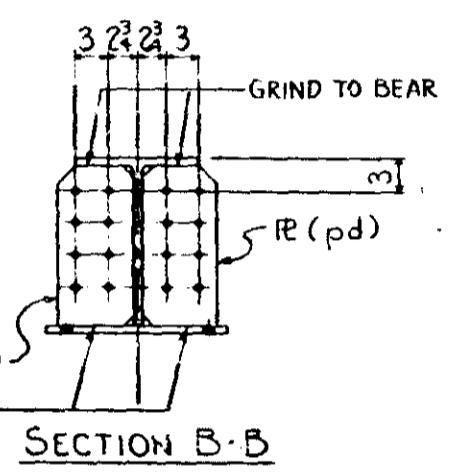
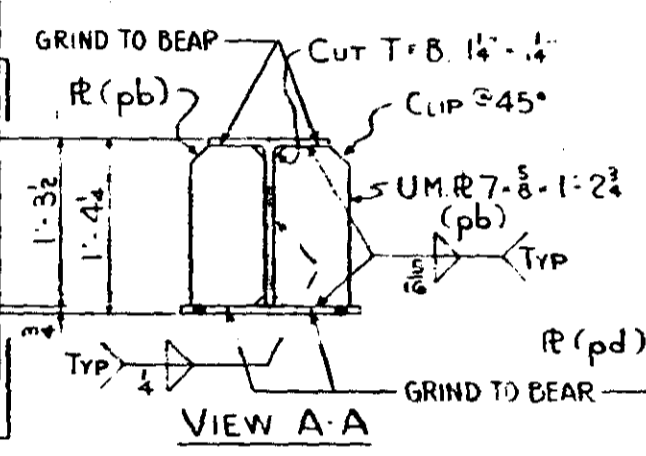
NO.	REVISION	Made by	Date



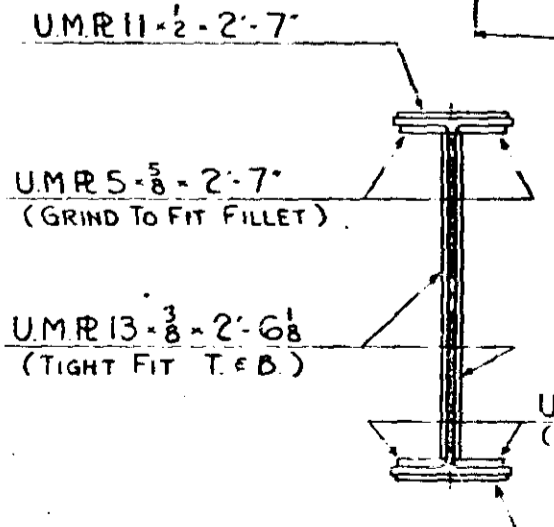
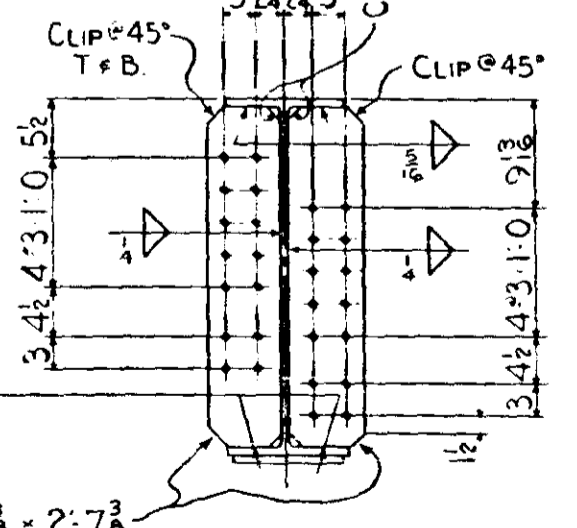
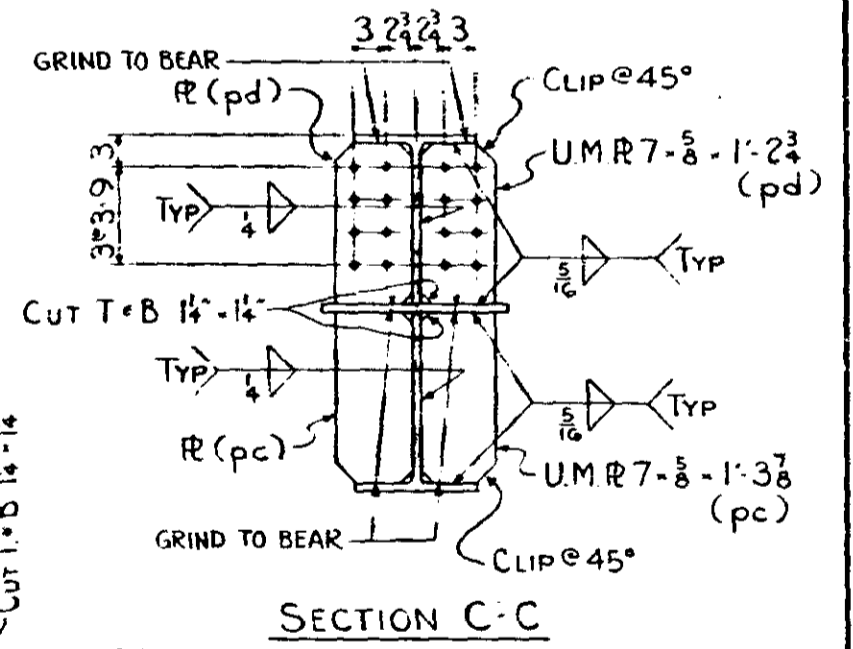
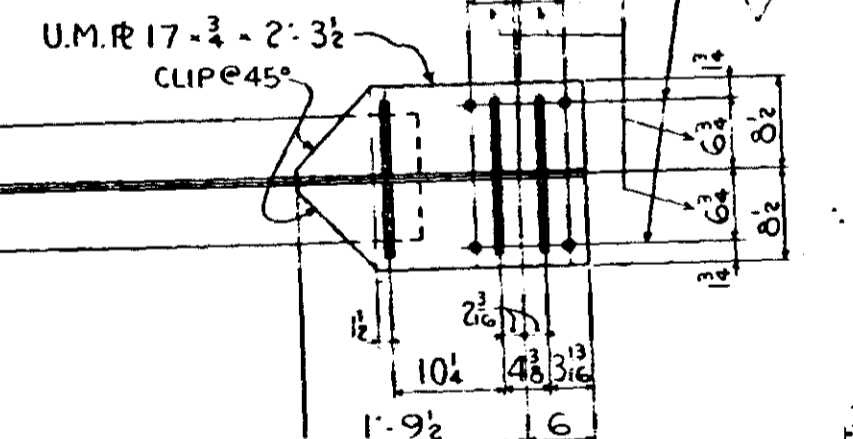
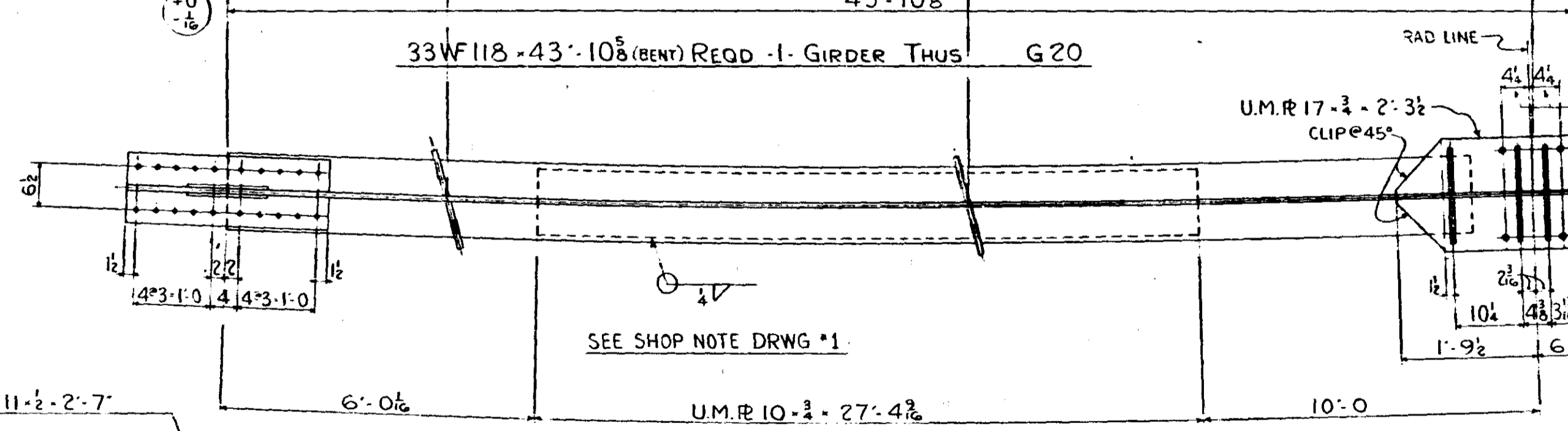
NOTE:
BOLT SPLICE MATL. FOR SHPMT.
REMOVE ALL TACK WELDING IN SHOP



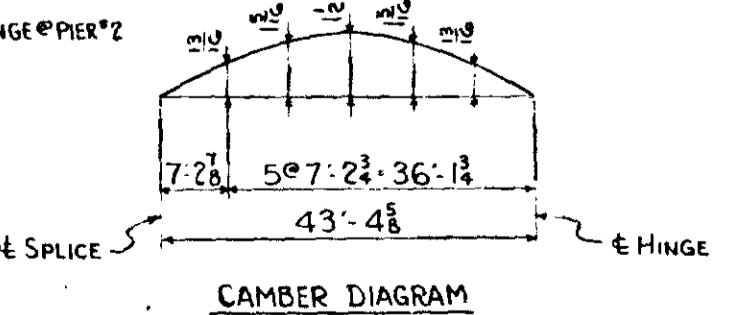
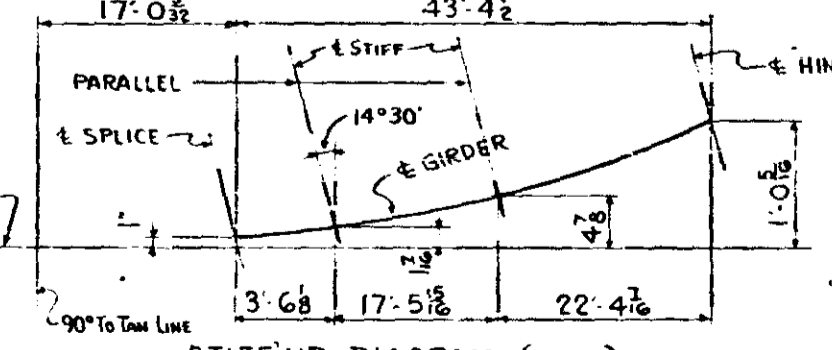
METALIZE ALL SURFACES
IN THIS AREA



33WF118 - 43'-10 3/8 (BENT) REQD - 1- GIRDER THUS G20

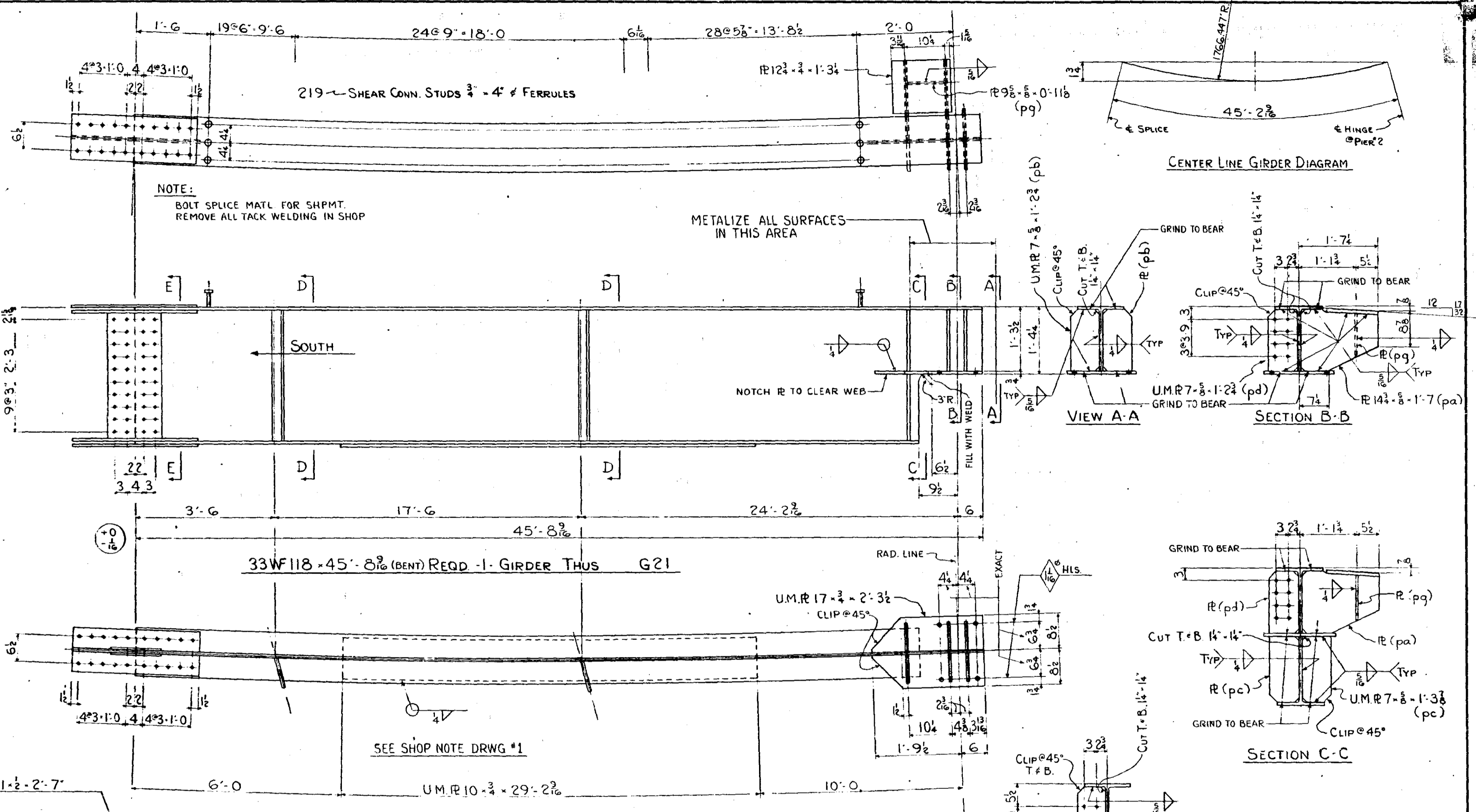


GEN NOTES SEE DRWG #1
FOR WELDING INSPECTION SEE GEN. NOTES
METALLIZING AS PER M.H.D. 2471.3L4B (NO PAINT IN THIS AREA)



MINN PROJ N° 1-IG '35W-3 (58) 112
S.P. N° 2783-9340B (TH. 35W-394)
ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.
Beam Girder
Structure M.H.D. BRIDGE N° 9340
Location MPLS., MINN.
Contractor INDUSTRIAL CONSTR. CO.
Made by W.E.S. Checked by R.P.
Date 4-14-66 Shop 4-14-66
ORDER NO. 32647 DRAWING NO. 20
FORM 15-66

NO.	REVISION	Made by	Date



NOTE:
BOLT SPLICE MATL FOR SHPMT.
REMOVE ALL TACK WELDING IN SHOP

METALIZE ALL SURFACES
IN THIS AREA

CENTER LINE GIRDER DIAGRAM

VIEW A-A

SECTION B-B

SECTION C-C

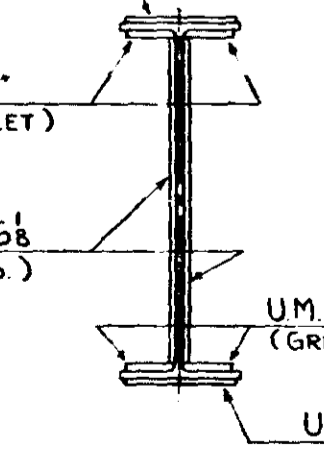
SECTION D-D
(DEVELOPED)

33WF118 x 45' 8 1/16 (BENT) REQD -1- GIRDER THUS G21

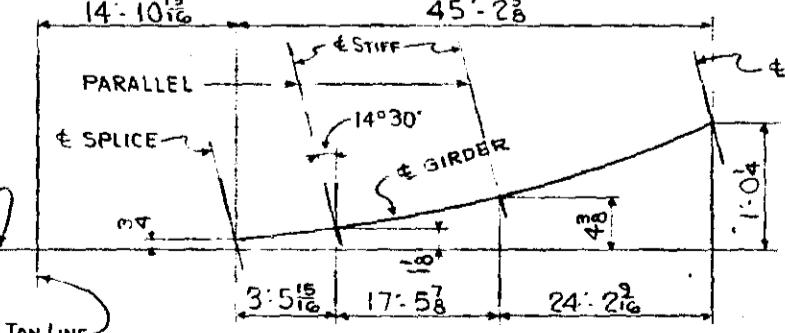
SEE SHOP NOTE DRWG #1

GEN. NOTES: SEE DRWG #1

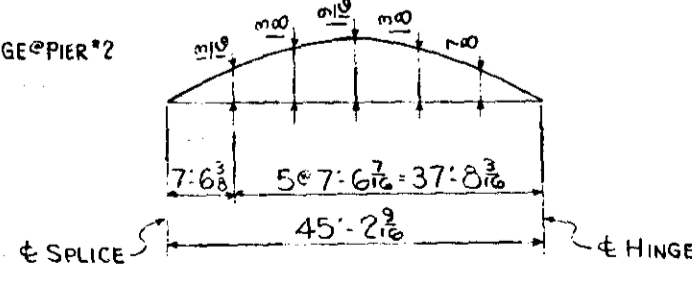
FOR WELDING INSPECTION SEE GEN. NOTES
METALLIZING AS PER M.H.D. 2471.3L4B (NO PAINT IN THIS AREA)



SECTION E-E



STIFF'NR DIAGRAM (CONT.)
SEE DRWG #7

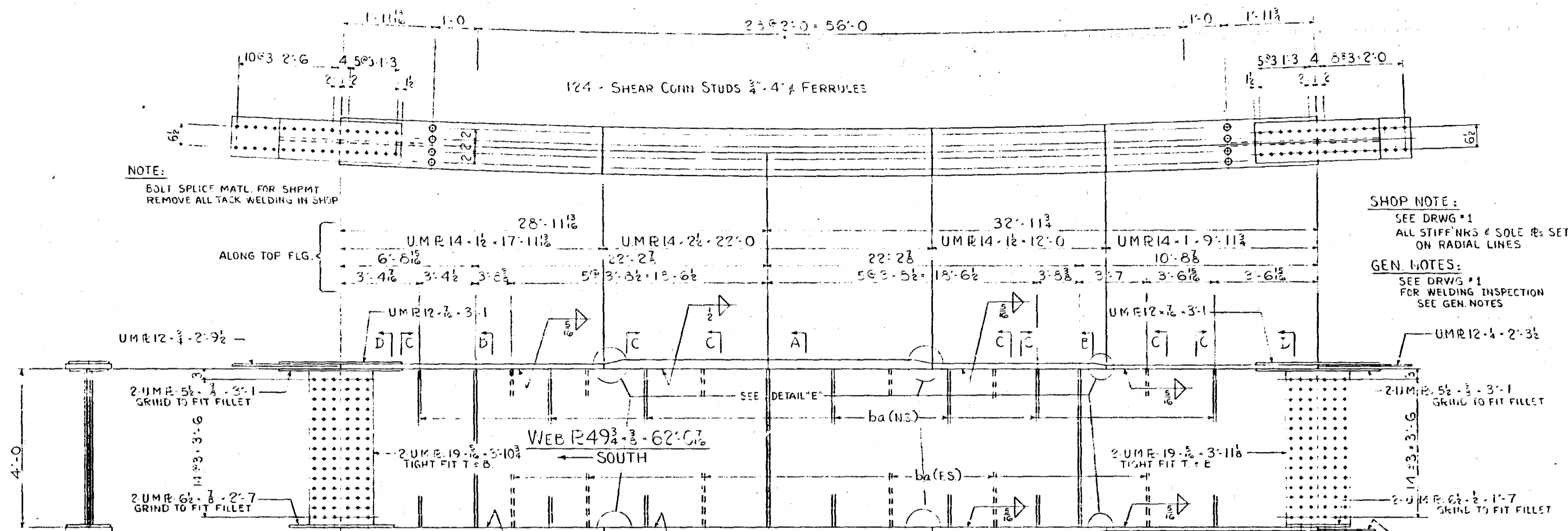


CAMBER DIAGRAM

MICRO-FILM

MINN PROJ. NO I-IG 35W-3 (58) 112	
S.F. NO 2783-9340B (TH. 35W-394)	
ST. PAUL FOUNDRY & MFG. CO. ST. PAUL, MINN.	
Beam Girder	
Structure M.H.D. BRIDGE NO 9340	
Location MPLS., MINN.	
Contractor INDUSTRIAL CONSTR. CO.	
Made by W.E.S.	Checked by S.F.
Date 4-14-66	Shop 4-14-66
ORDER NO. 3-647	DRAWING NO. 21
NO.	REVISION
	Made by
	Date

FORM 15-381

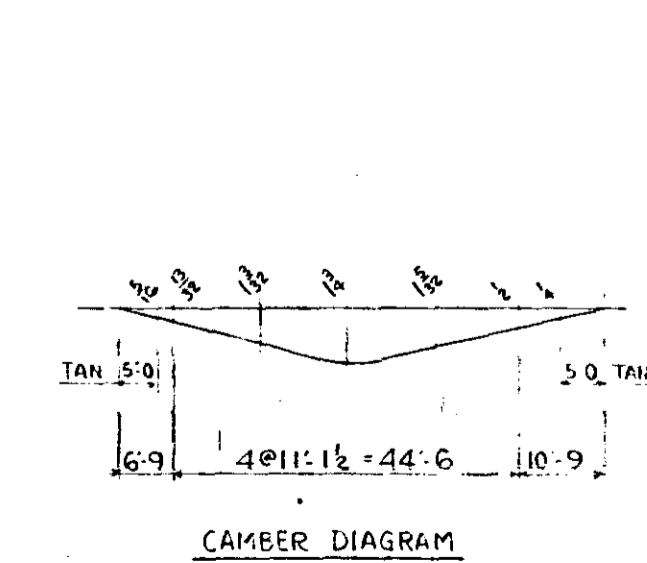
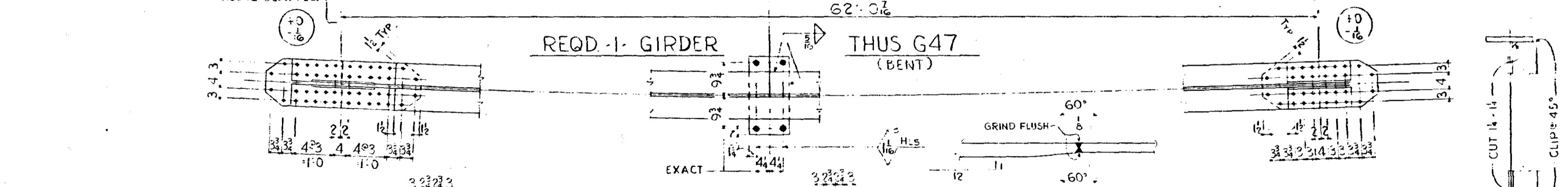


NOTE:
BOLT SPLICE MATL. FOR SHPMT
REMOVE ALL TACK WELDING IN SHOP

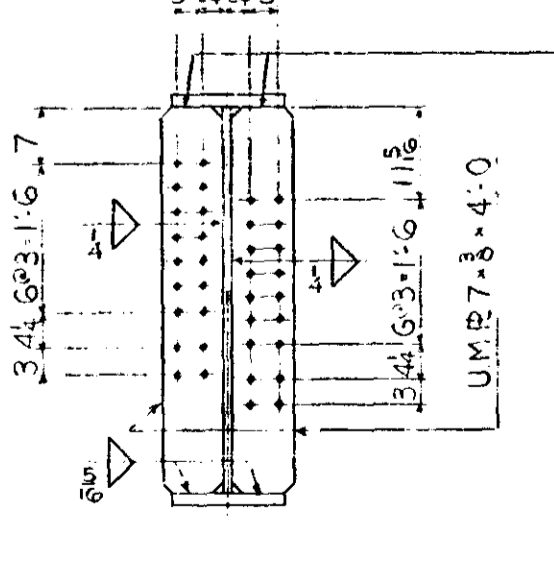
SHOP NOTE:
SEE DRWG #1
ALL STIFFNRS & SOLE RS SET
ON RADIAL LINES

GEN. NOTES:
SEE DRWG #1
FOR WELDING INSPECTION
SEE GEN. NOTES

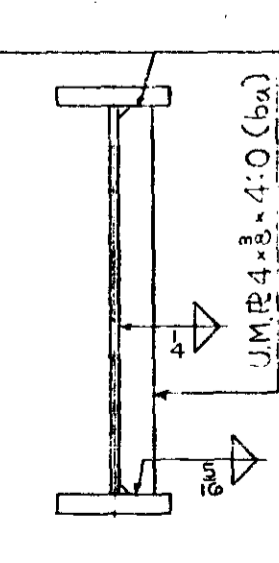
SECT. D-D



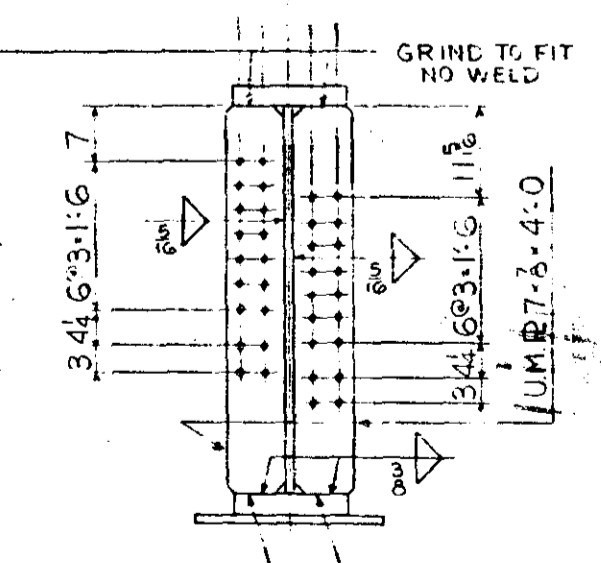
CAMBER DIAGRAM



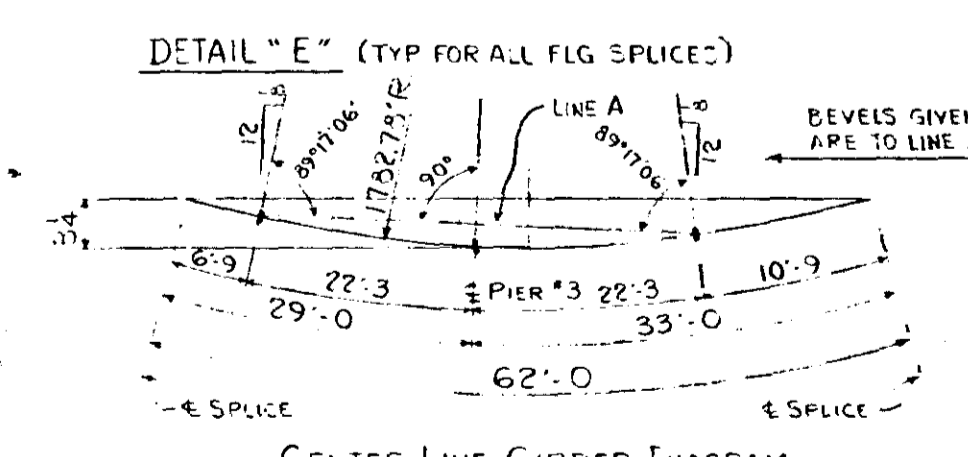
SECT. B-B



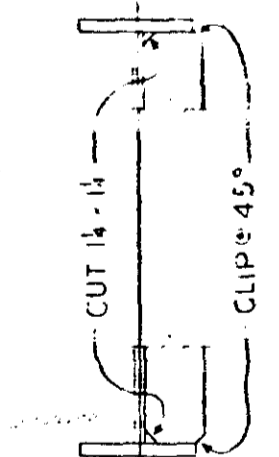
SECT. C-C



SECT. A-A



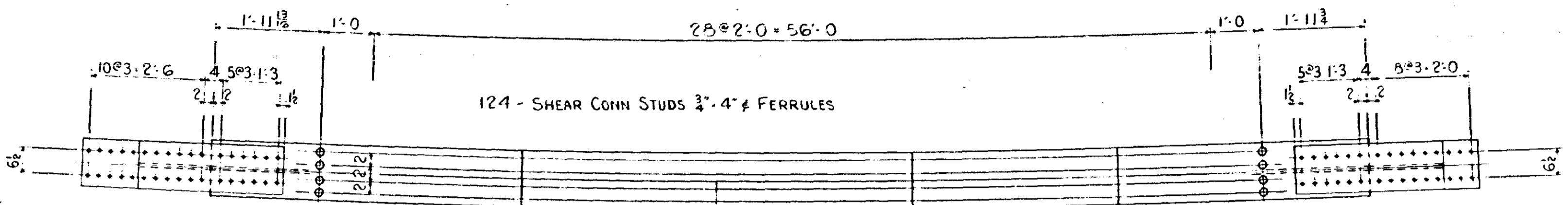
CENTER LINE GIRDER DIAGRAM



TYP. FOR ALL STIFF NRS

MINN PROJ. N° I-IG 35W-3(58)112
S.P. N° 2753-9340B (T.H. 35W-394)
ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.
GIRDER DETAIL
Structure M.H.D. BRIDGE N° 9340
Location M.P. 3, MINN.
Contractor INDUSTRIAL CONSTR. CO.
Made by W.E.S. Checked by R.P.
Date 4-13-66 Shop
ORDER NO. 32647 DRAWING NO. 47
FORM 18-65H

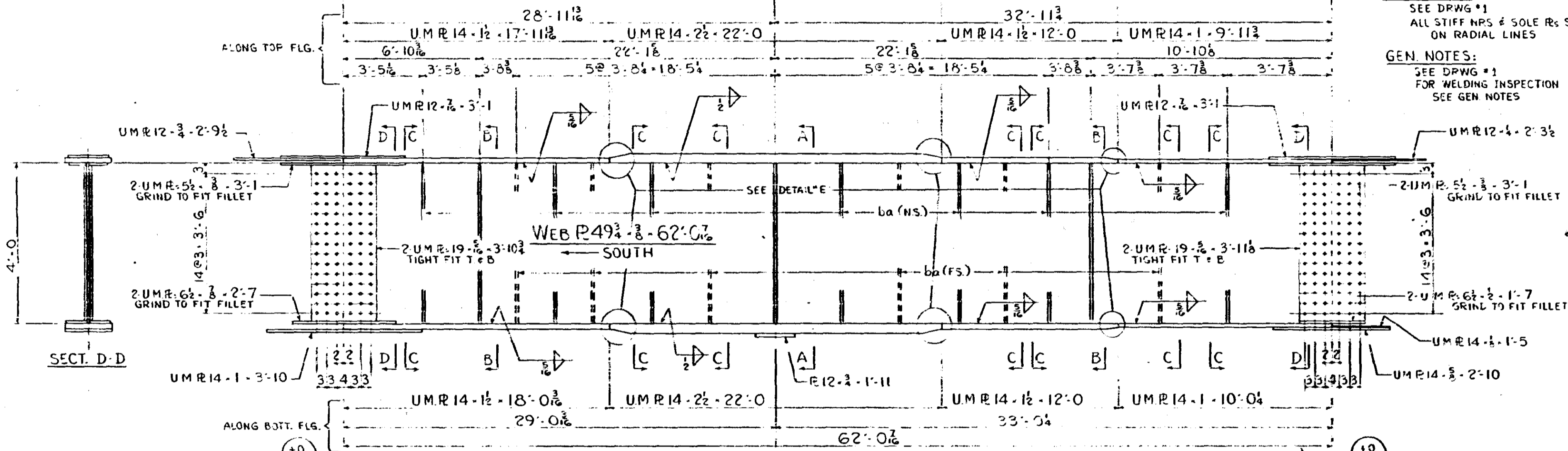
NO.	REVISION	Made by	Date



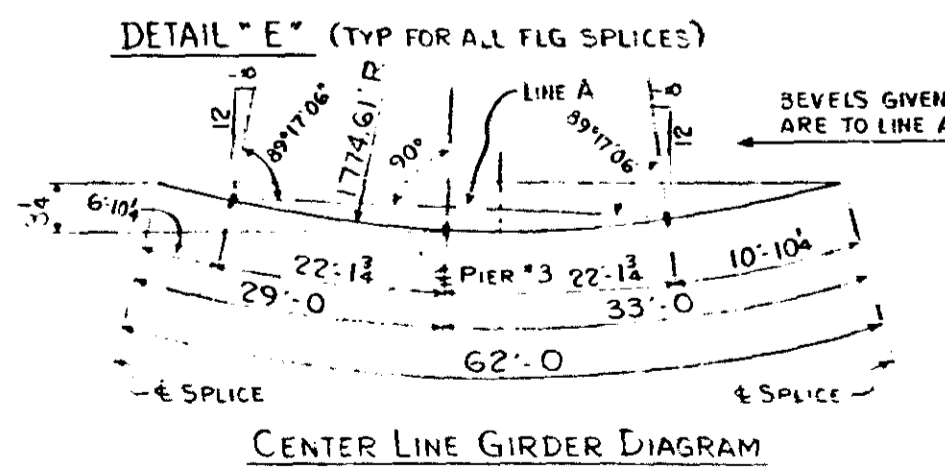
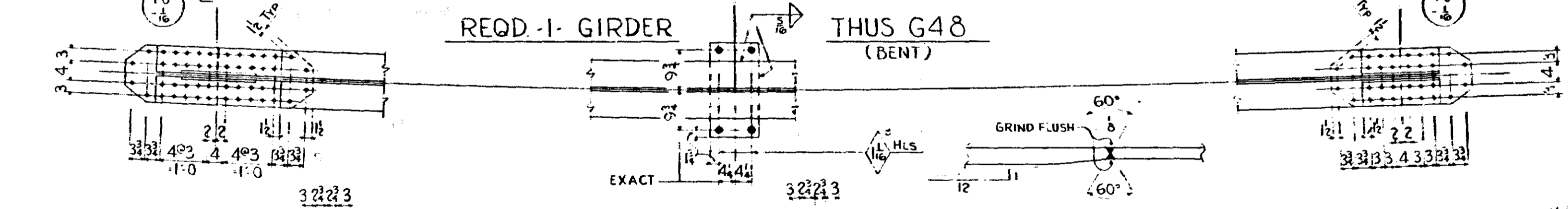
NOTE:
BOLT SPLICE MATL. FOR SHPMT
REMOVE ALL TACK WELDING IN SHOP

SHOP NOTE:
SEE DRWG #1
ALL STIFF NRS & SOLE RS SET
ON RADIAL LINES

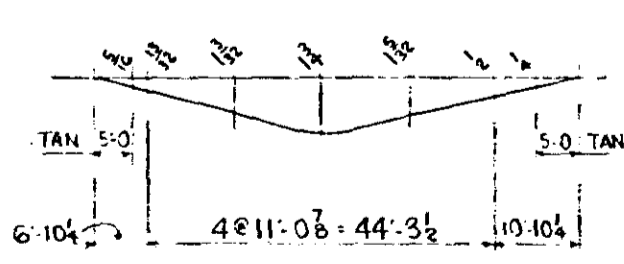
GEN. NOTES:
SEE DRWG #1
FOR WELDING INSPECTION
SEE GEN. NOTES



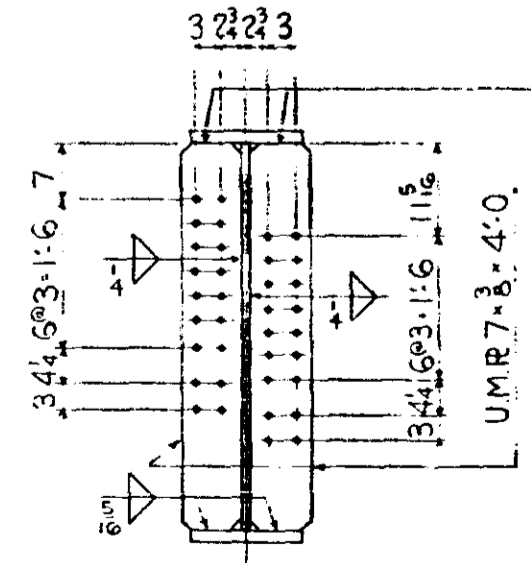
SECT. D-D



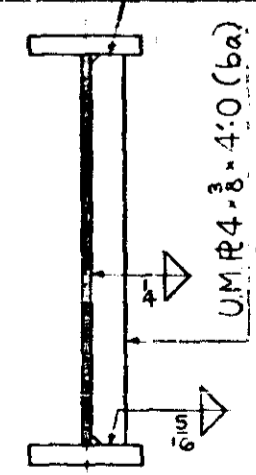
CENTER LINE GIRDER DIAGRAM



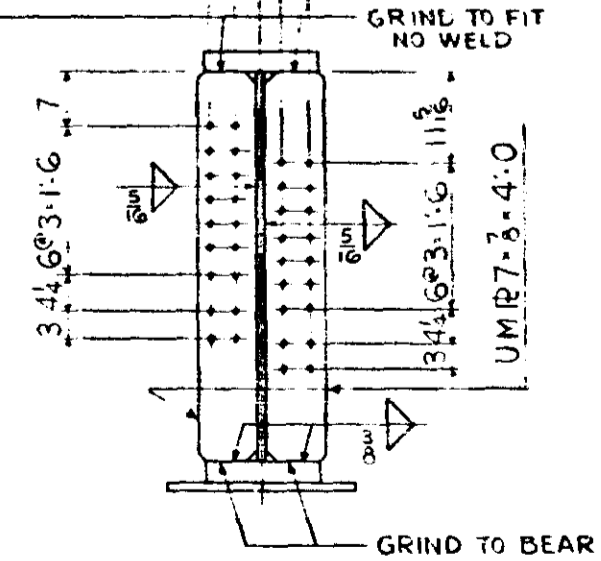
CAMBER DIAGRAM



SECT. B-B



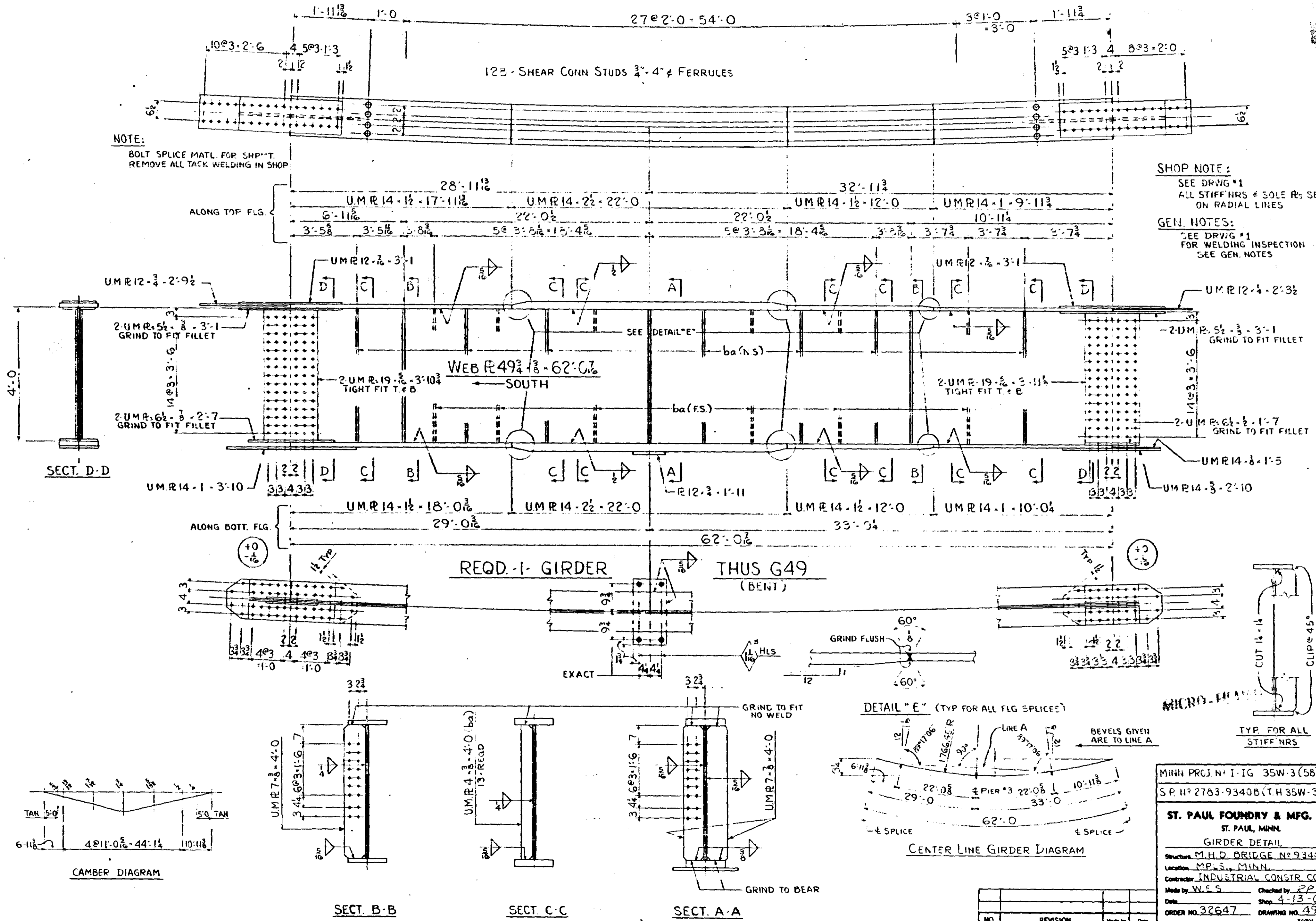
SECT. C-C



SECT. A-A

MINN PROJ. N° I-IG 35W-3(58)112	
SP. N° 2753-9340B (T.H.35W-394)	
ST. PAUL FOUNDRY & MFG. CO.	
ST. PAUL, MINN.	
GIRDER DETAIL	
Structure M.H.D. BRIDGE N° 9340	
Location M.P.S., MINN.	
Contractor INDUSTRIAL CONSTR. CO.	
Made by W.E.S.	Checked by R.P.
Date	Shop 4-13-66
ORDER NO. 32647	DRAWING NO. 46
NO.	REVISION
Made by	Date

FORM 12-52H



MINN PROJ. N° I-IG 35W-3(58)112
 S.P. N° 2783-9340B (T.H 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

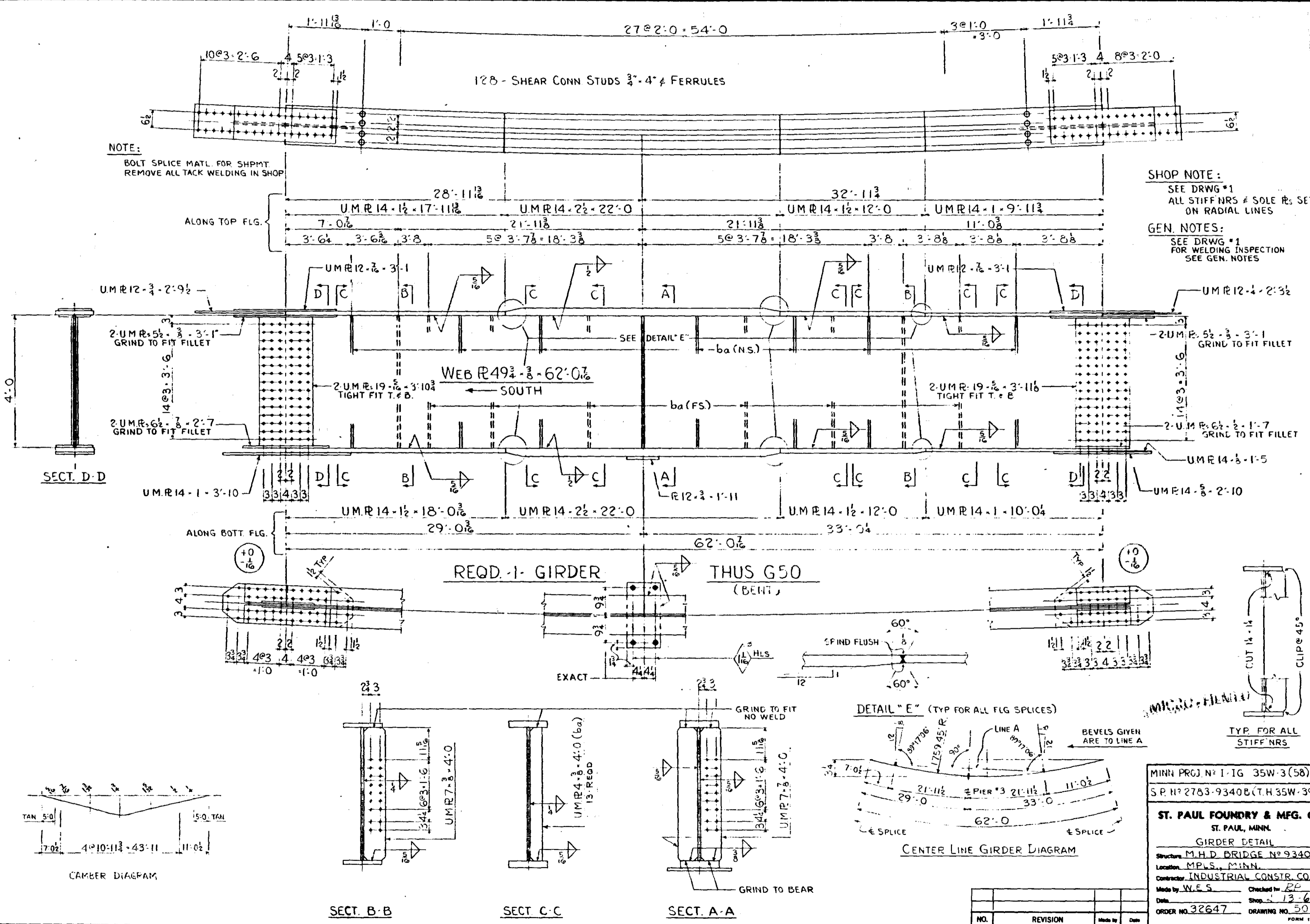
GIRDER DETAIL

Structure M.H.D. BRIDGE N° 9340
 Location M.P.S., MINN.
 Contractor INDUSTRIAL CONSTR. CO.

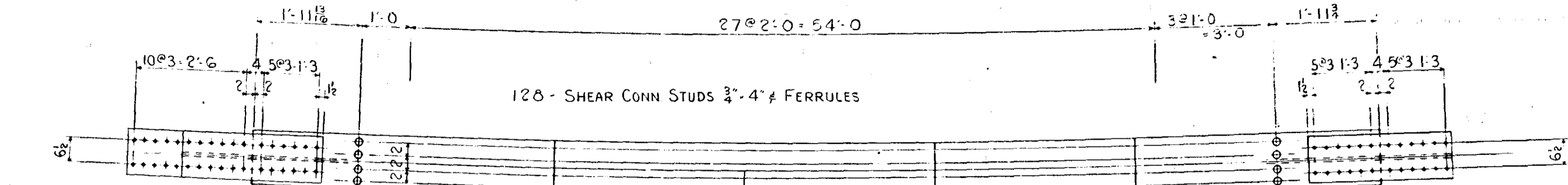
Made by W.E.S. Checked by EP
 Date 4-13-66 Shop
 ORDER NO. 32647 DRAWING NO. 49

NO.	REVISION	Made by	Date

FORM 18-59H



MINN PROJ. NO. I-1G 35W-3(58)112	
S.P. NO. 2783-9340B(T.H.35W-394)	
ST. PAUL FOUNDRY & MFG. CO.	
ST. PAUL, MINN.	
GIRDER DETAIL	
Structure M.H.D. BRIDGE NO. 9340	
Location M.P.S., MINN.	
Contractor INDUSTRIAL CONSTR. CO.	
Made by W.F.S.	Checked by R.P.
Date	Shop 13-66
ORDER NO. 32647	DRAWING NO. 50
NO.	REVISION
Made by	Date

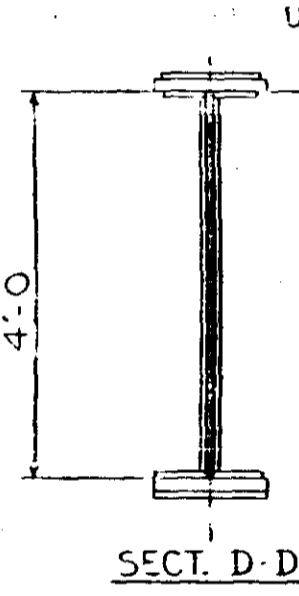
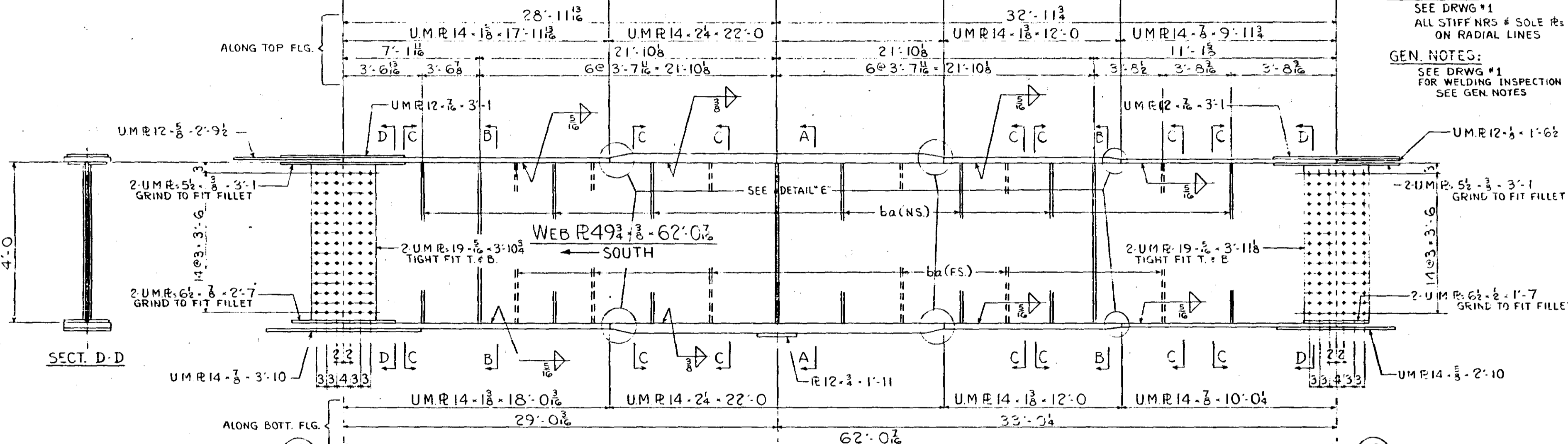


128 - SHEAR CONN STUDS 3/4" - 4" FERRULES

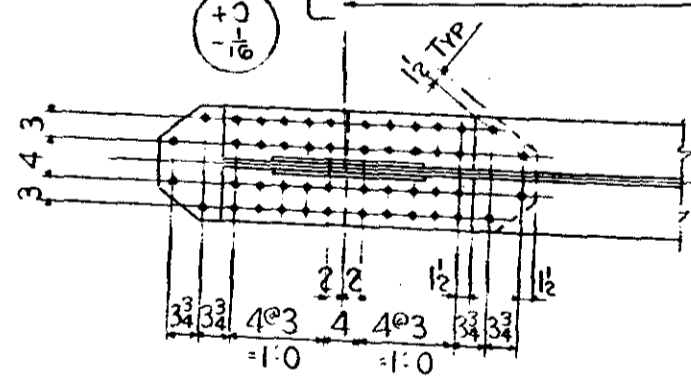
NOTE:
BOLT SPICE MATL. FOR SHPMT.
REMOVE ALL TACK WELDING IN SHOP

SHOP NOTE:
SEE DRWG #1
ALL STIFF NRS # SOLE NRS SET
ON RADIAL LINES

GEN. NOTES:
SEE DRWG #1
FOR WELDING INSPECTION
SEE GEN. NOTES

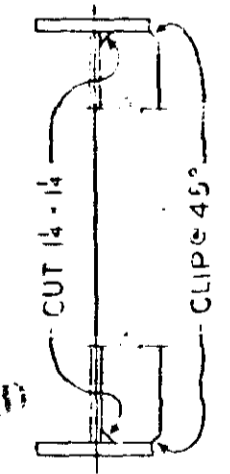
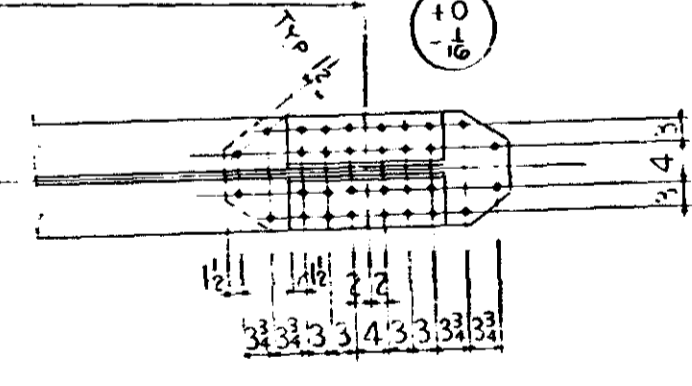
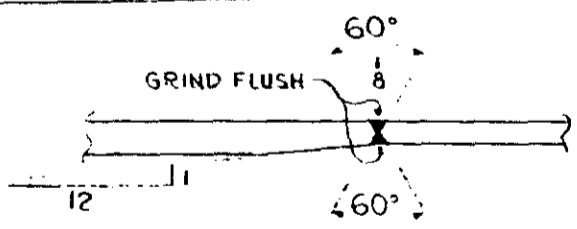
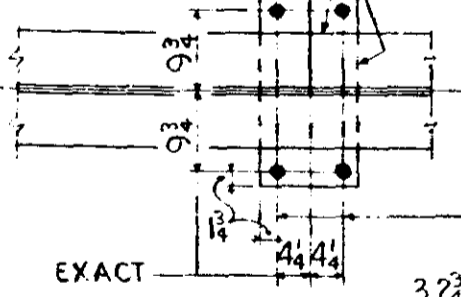


SECTION D-D

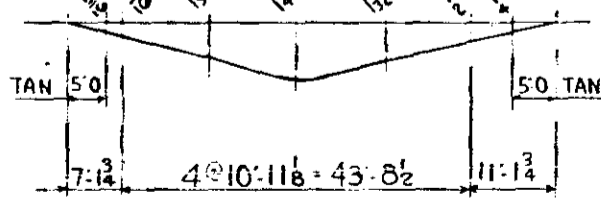


REQD. 1- GIRDER

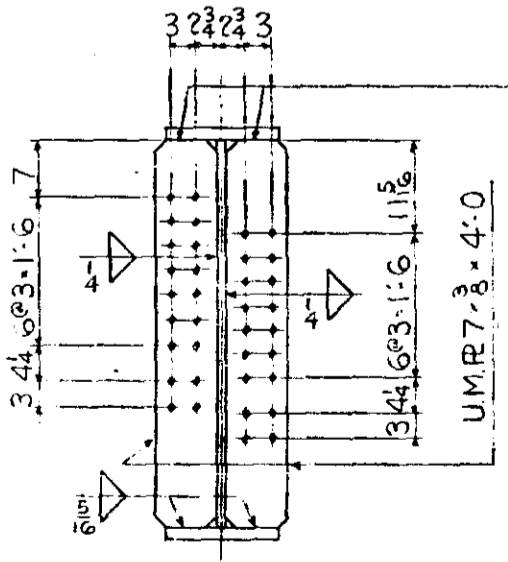
THUS G51 (BENT)



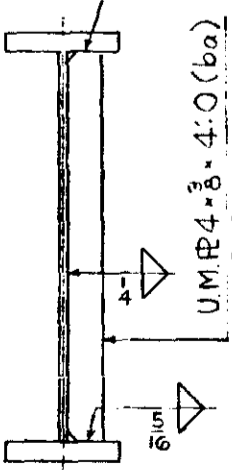
TYP. FOR ALL STIFF NRS



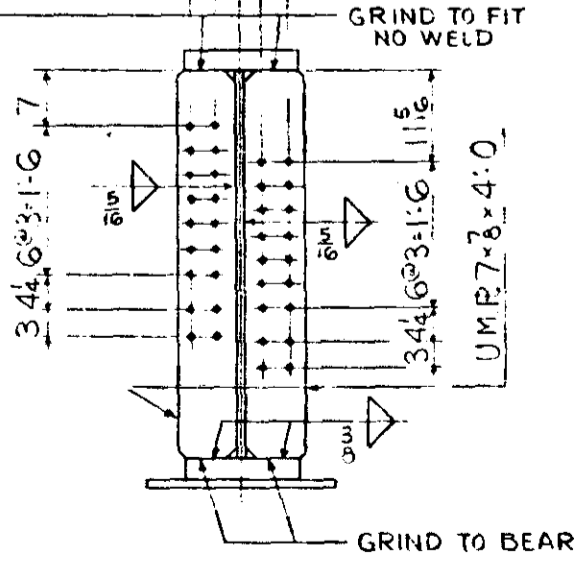
CAMBER DIAGRAM



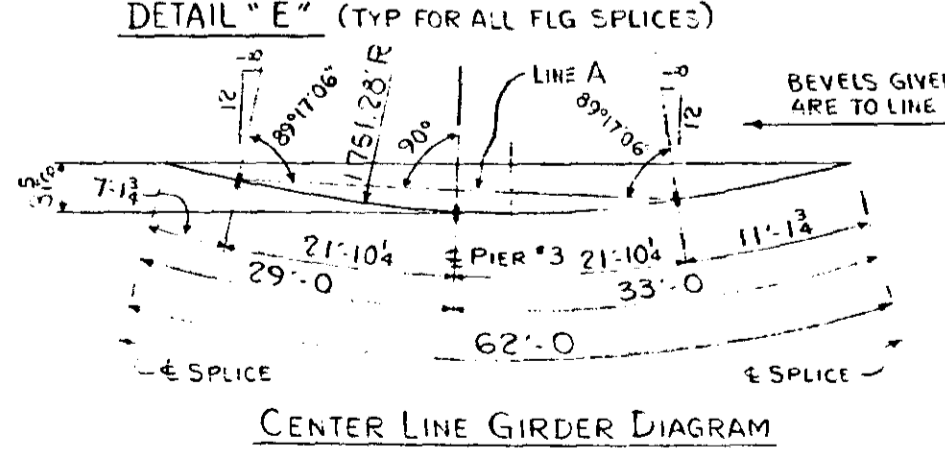
SECTION B-B



SECTION C-C



SECTION A-A



CENTER LINE GIRDER DIAGRAM

NO.	REVISION	Made by	Date

MINN PROJ. N° I-IG 35W-3(58)112
S.P. N° 2783-9340B (TH 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

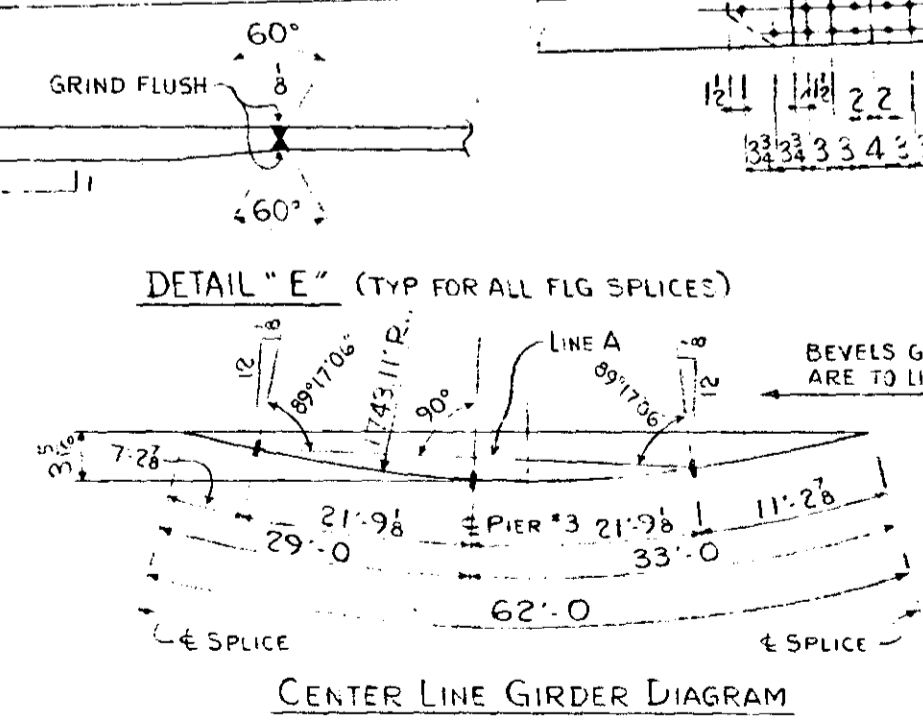
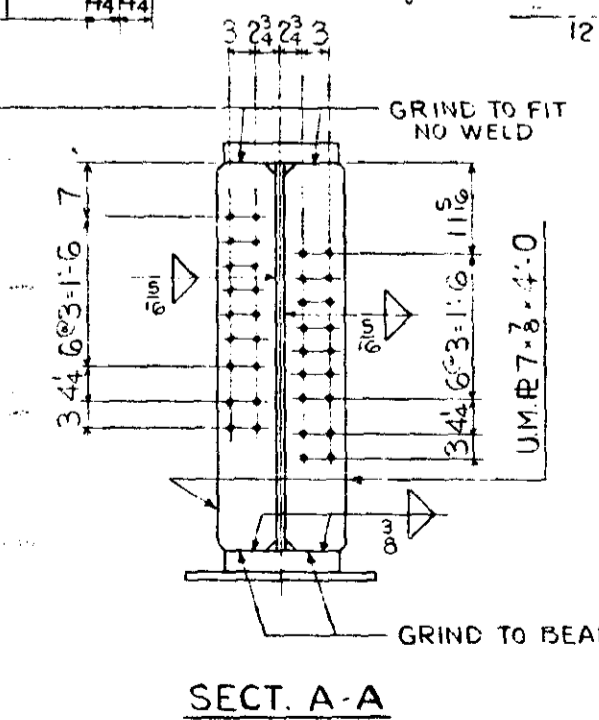
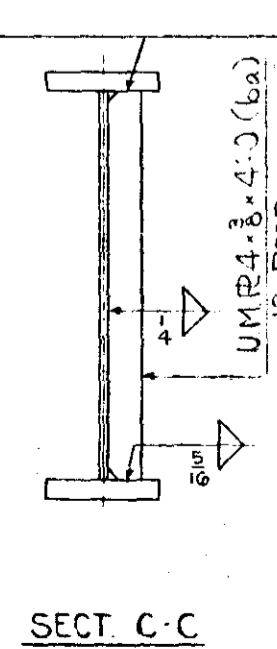
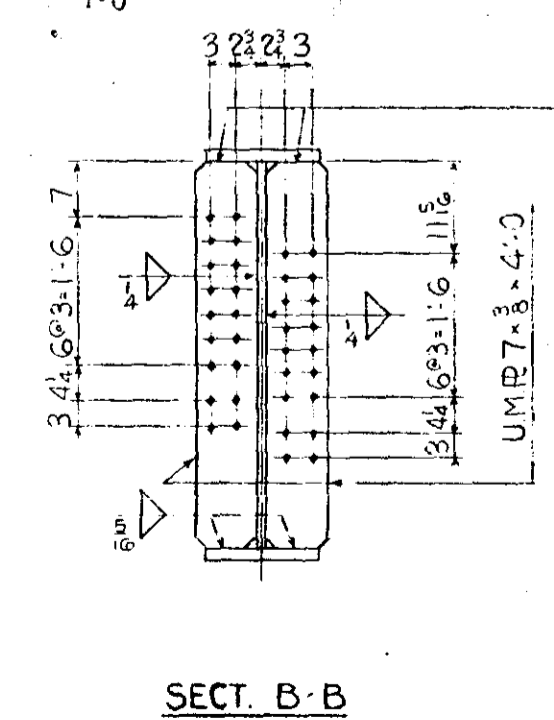
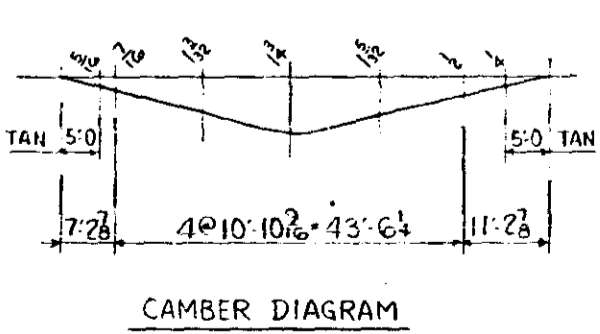
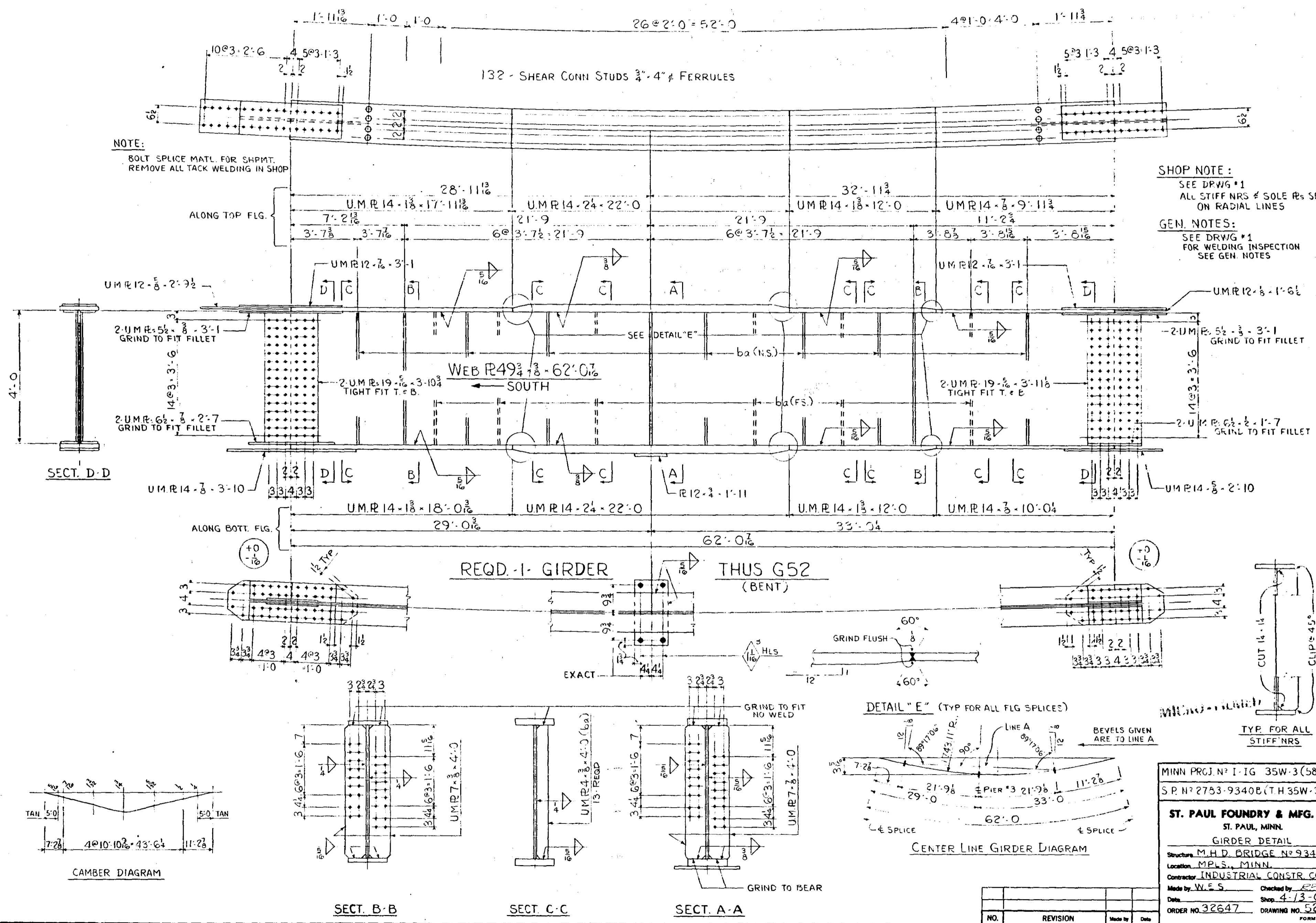
GIRDER DETAIL

Structure: M.H.D. BRIDGE N° 9340
Location: M.P.S., MINN.
Contractor: INDUSTRIAL CONSTR. CO.
Made by: W.E.S. Checked by: EP
Date: 4-13-66 Shop: 4-13-66
ORDER NO. 32647 DRAWING NO. 51

NOTE:
BOLT SPICE MATL. FOR SHPMT.
REMOVE ALL TACK WELDING IN SHOP

SHOP NOTE:
SEE DRWG #1
ALL STIFF NRS & SOLE RS SET
ON RADIAL LINES

GEN. NOTES:
SEE DRWG #1
FOR WELDING INSPECTION
SEE GEN. NOTES



CENTER LINE GIRDER DIAGRAM

MINN PROJ. NO. I-IG 35W-3(58)112
S.P. NO. 2753-9340B (TH 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

GIRDER DETAIL

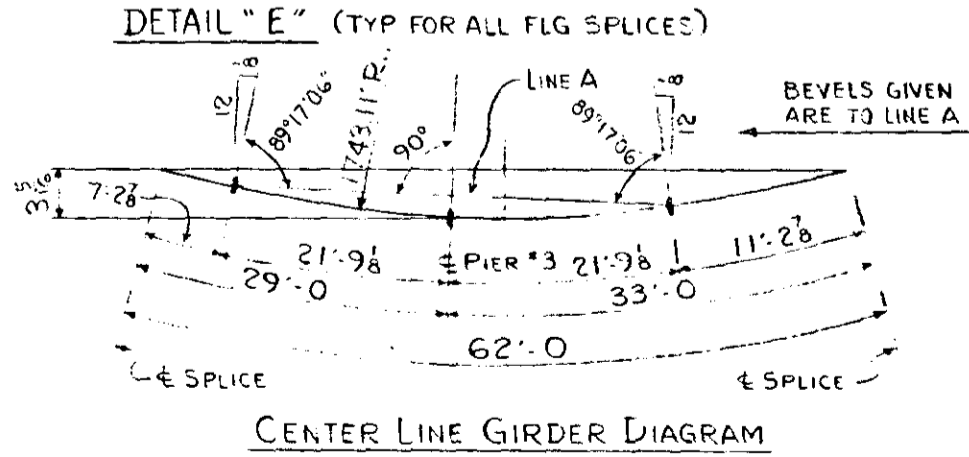
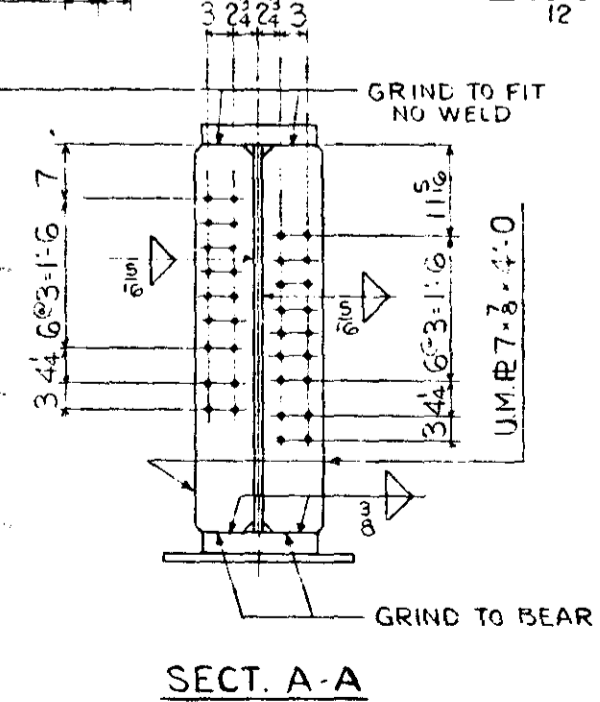
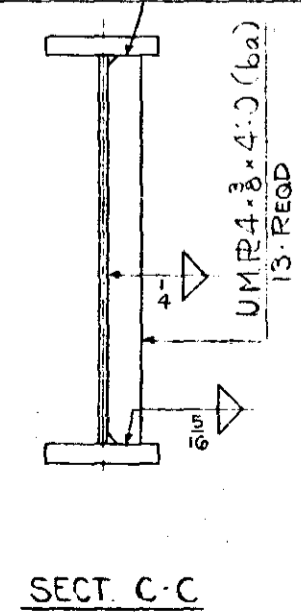
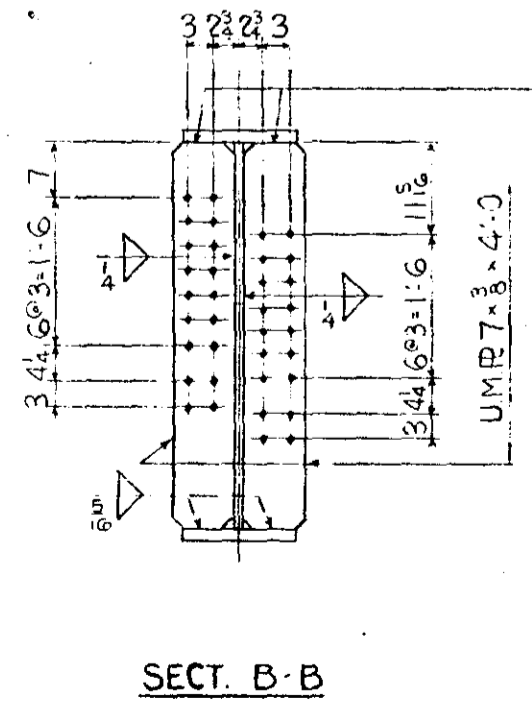
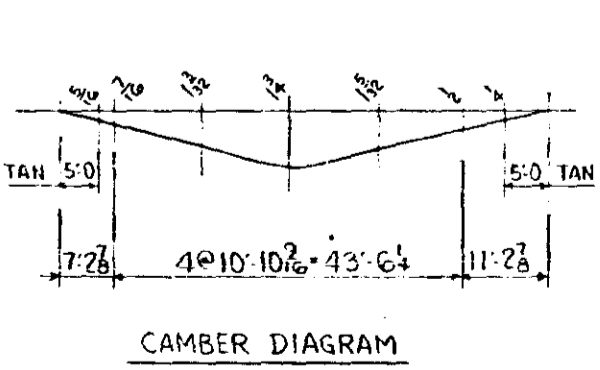
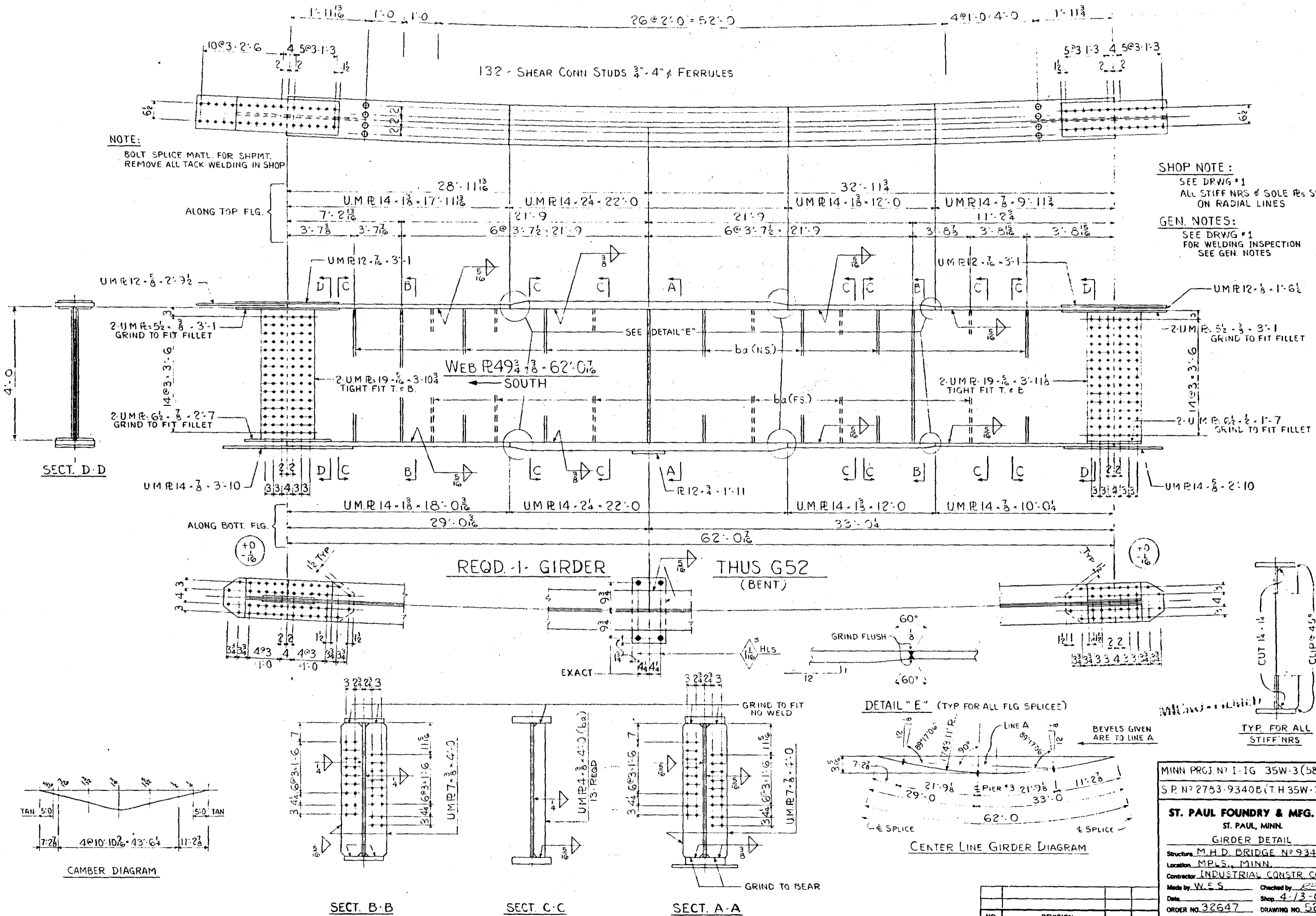
Structure: M.H.D. BRIDGE NO. 9340
Location: MPLS., MINN.
Contractor: INDUSTRIAL CONSTR. CO.
Made by: W.E.S. Checked by: R.P.
Date: 4-13-66
ORDER NO. 32647 DRAWING NO. 52

NO.	REVISION	Made by	Date

NOTE:
BOLT SPICE MATL. FOR SHPMT.
REMOVE ALL TACK WELDING IN SHOP

SHOP NOTE:
SEE DRWG #1
ALL STIFF NRS & SOLE RS SET
ON RADIAL LINES

GEN. NOTES:
SEE DRWG #1
FOR WELDING INSPECTION
SEE GEN. NOTES



CENTER LINE GIRDER DIAGRAM

MINN PROJ. N° I-IG 35W-3(58)112
S.P. N° 2783-9340B (TH 35W-394)

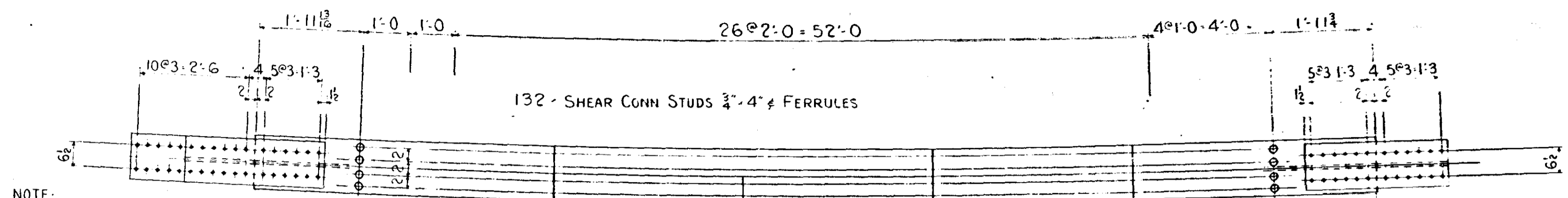
ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

GIRDER DETAIL

Structure M.H.D. BRIDGE N° 9340
Location M.P.S., MINN.
Contractor INDUSTRIAL CONSTR. CO.
Made by W.E.S. Checked by R.C.
Date 4-13-66
ORDER NO. 32647 DRAWING NO. 52

NO.	REVISION	Made by	Date

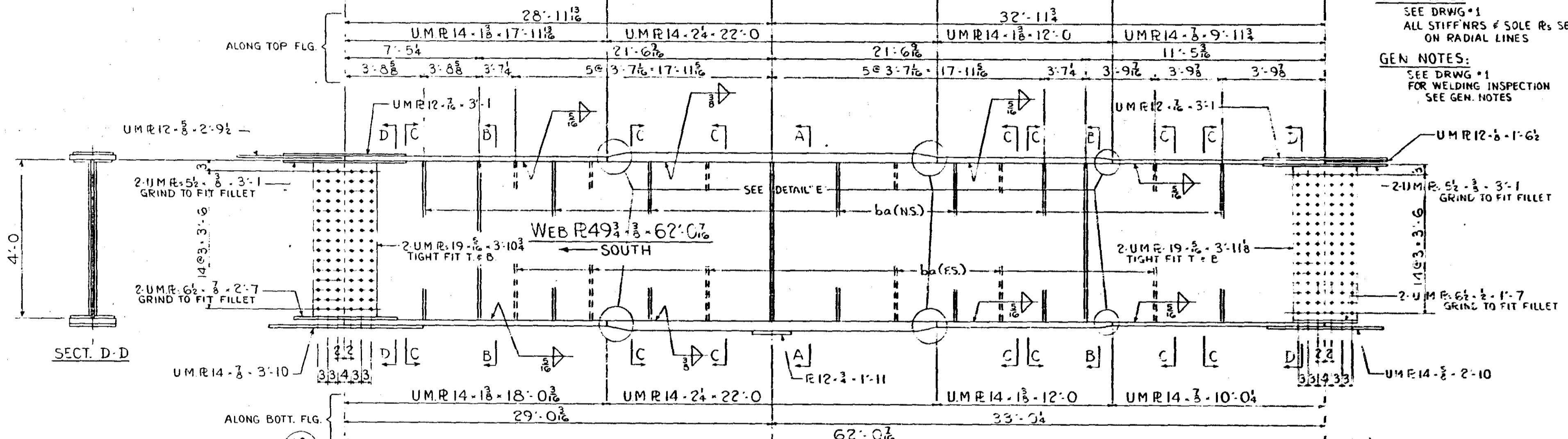
FORM 18-581



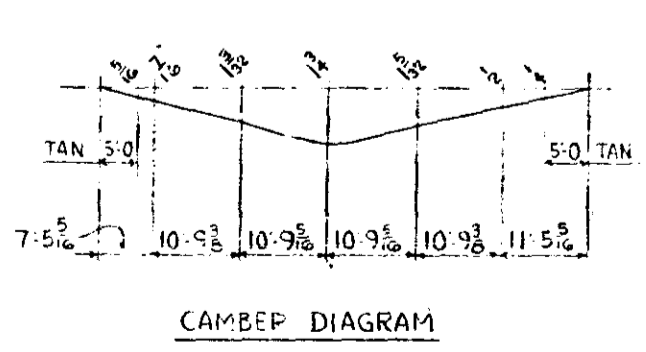
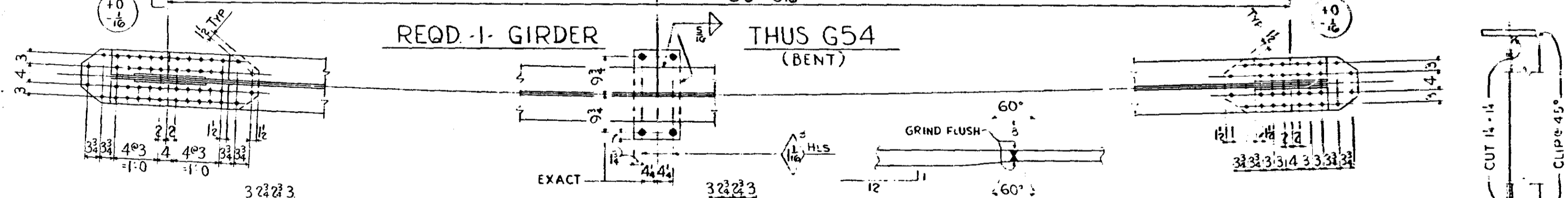
NOTE:
BOLT SPLICE MATL FOR SHPMT.
REMOVE ALL TACK WELDING IN SHOP

SHOP NOTE:
SEE DRWG #1
ALL STIFFNRS & SOLE RS SET
ON RADIAL LINES

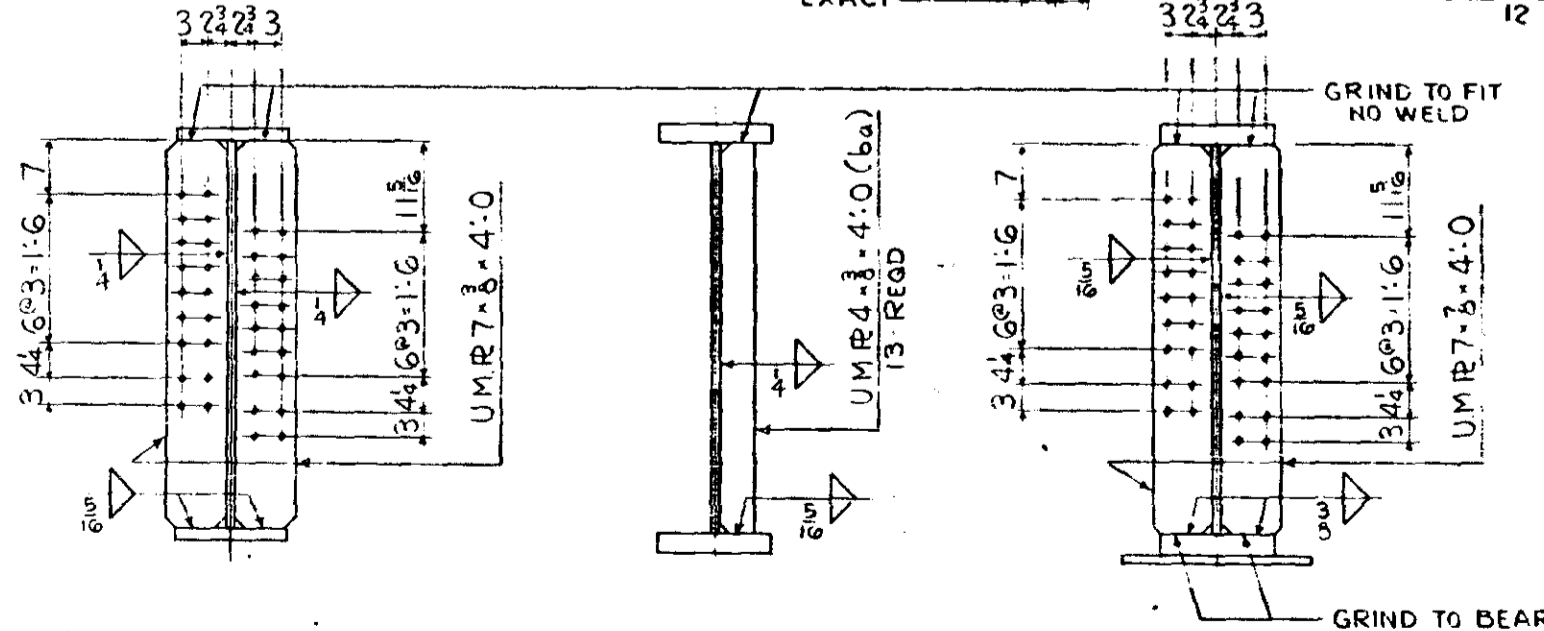
GEN NOTES:
SEE DRWG #1
FOR WELDING INSPECTION
SEE GEN. NOTES



SECT. D-D



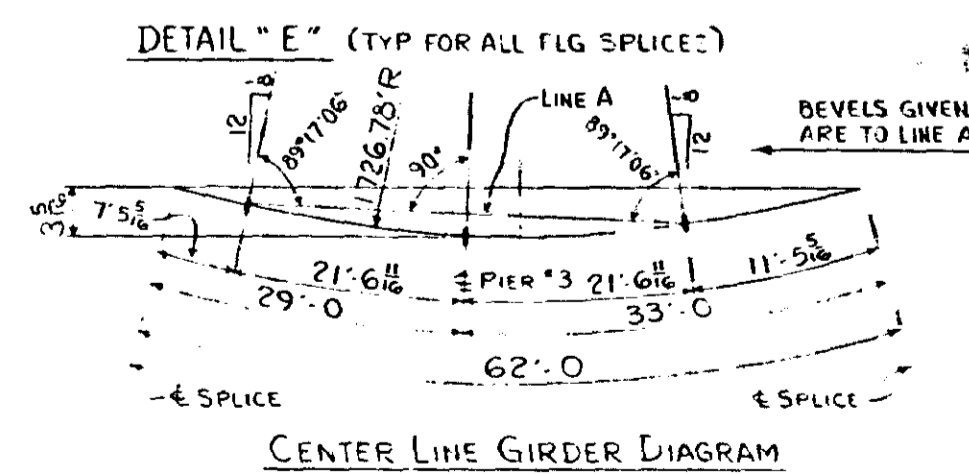
CAMBER DIAGRAM



SECT. B-B

SECT. C-C

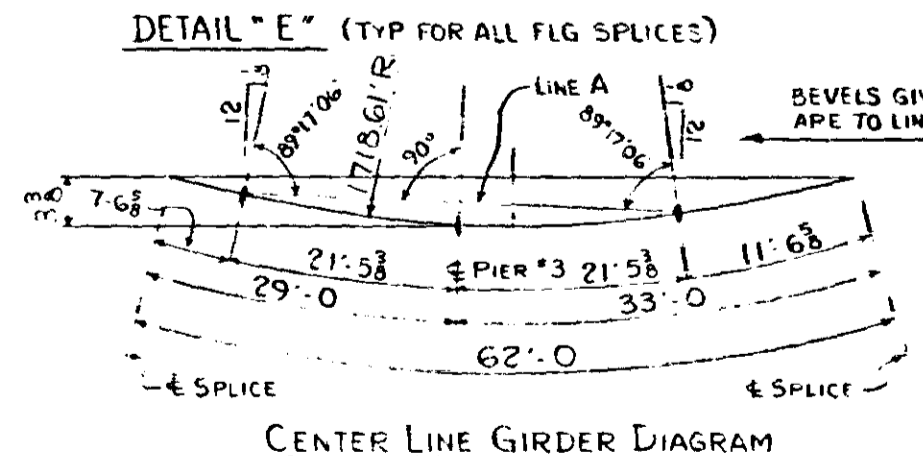
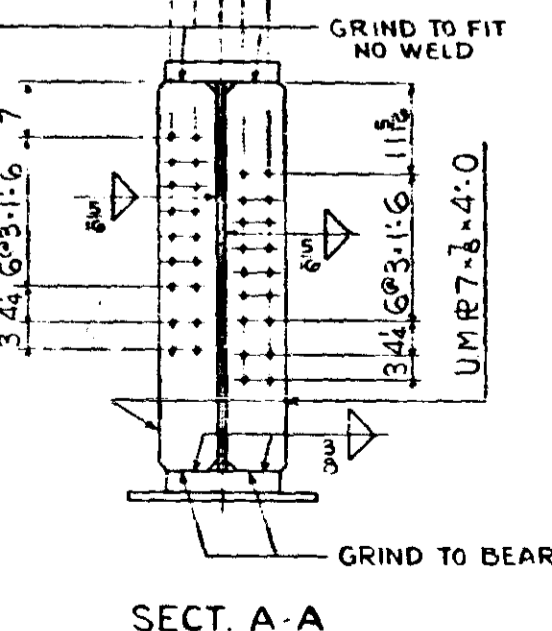
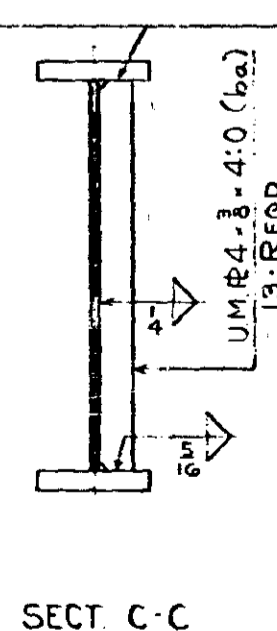
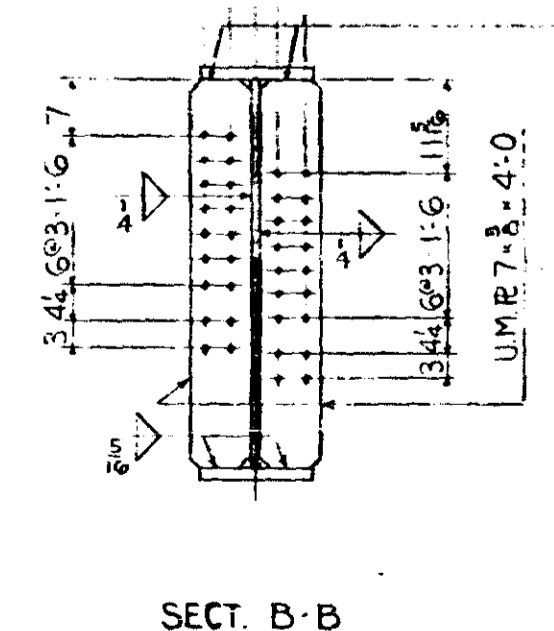
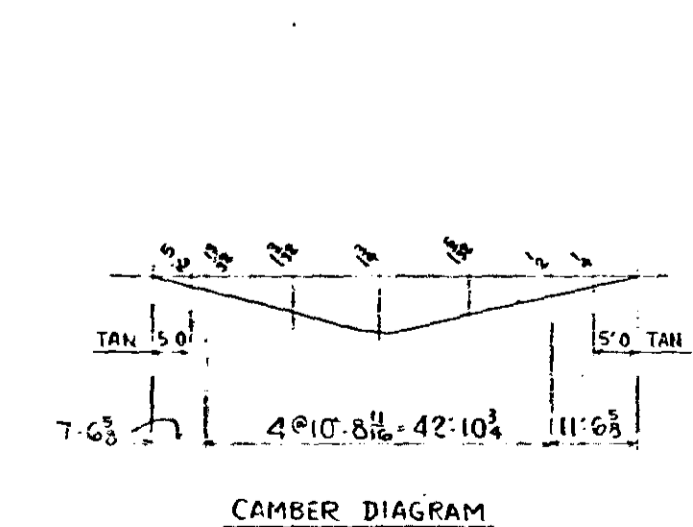
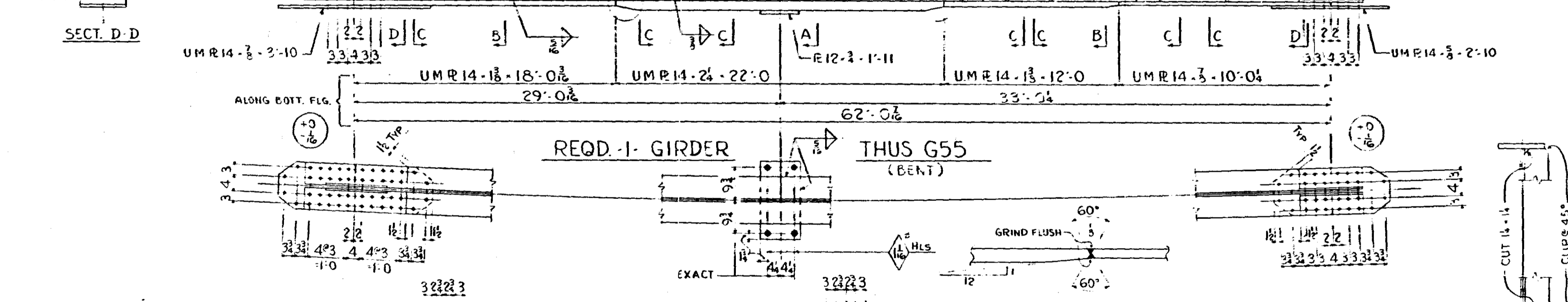
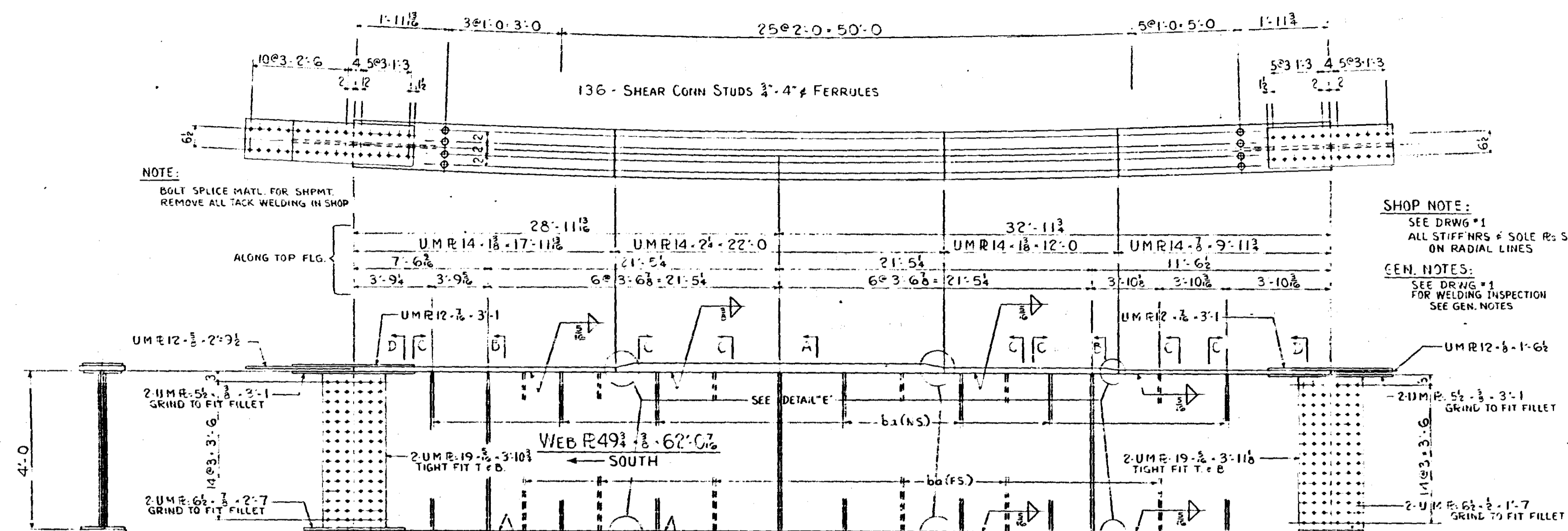
SECT. A-A



CENTER LINE GIRDER DIAGRAM

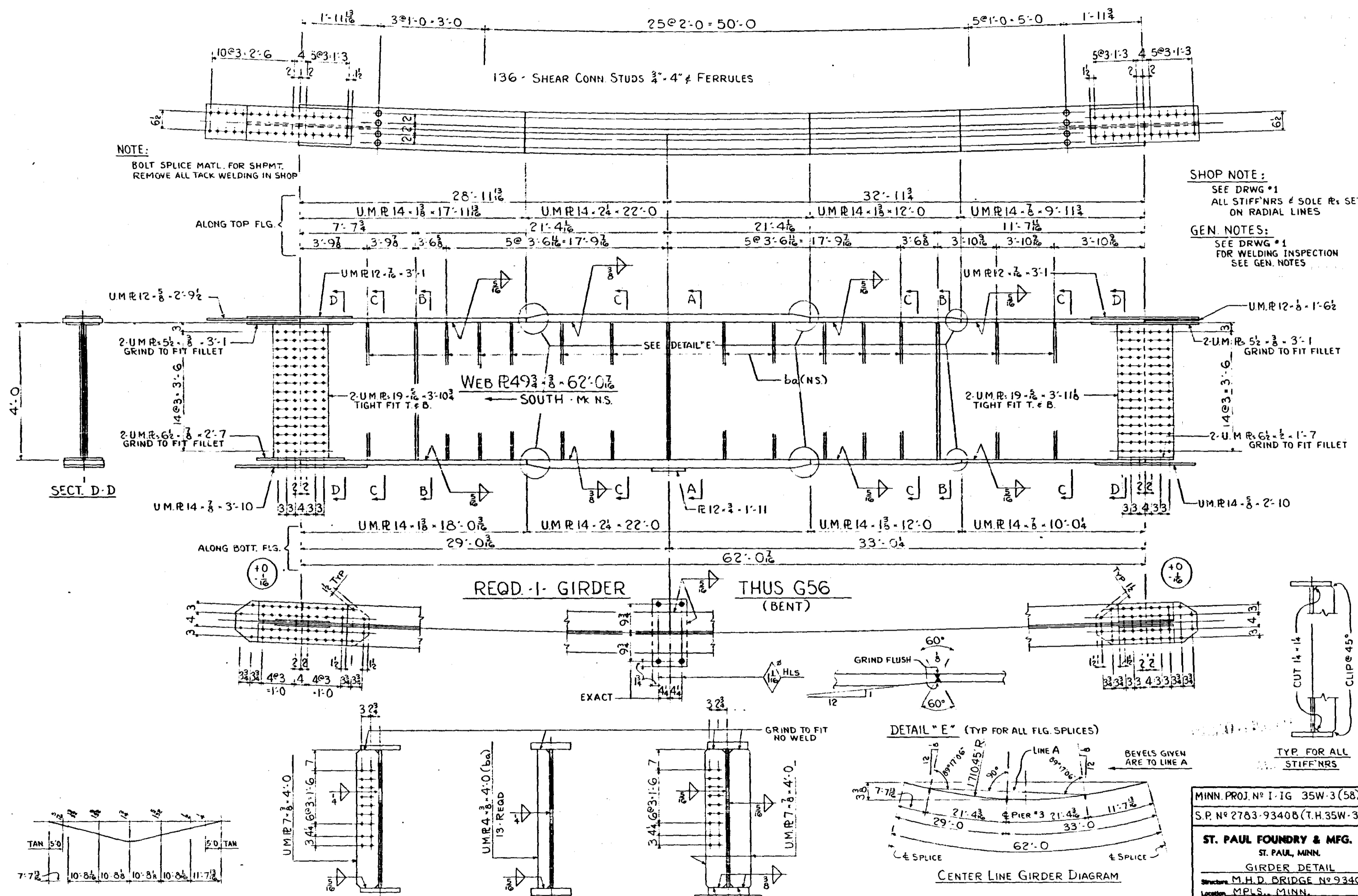
MINN PROJ. N° I-IG 35W-3(58)112	
S.P. N° 2753-9340E, TH 35W-394	
ST. PAUL FOUNDRY & MFG. CO.	
ST. PAUL, MINN.	
GIRDER DETAIL	
Structure	M.H.D. BRIDGE N° 9340
Location	M.P.S., MINN.
Contractor	INDUSTRIAL CONSTR. CO.
Made by	W.E.S. Checked by: RP
Date	4-13-66 Shop
ORDER NO. 32647	DRAWING NO. 54
NO.	REVISION
Made by	Date

FORM 19-281



MINN PROJ. N° I-IG 35W-3(58)112	
S.P. N° 2783-9340B (TH 35W-394)	
ST. PAUL FOUNDRY & MFG. CO. ST. PAUL, MINN.	
GIRDER DETAIL	
Structure	M.H.D. BRIDGE N° 9340
Location	MP. S., MINN.
Contractor	INDUSTRIAL CONSTR. CO.
Made by	W.F.S.
Checked by	EP
Date	4-13-66
Shop	4-13-66
ORDER NO.	32647
DRAWING NO.	55
FORM 12-54	

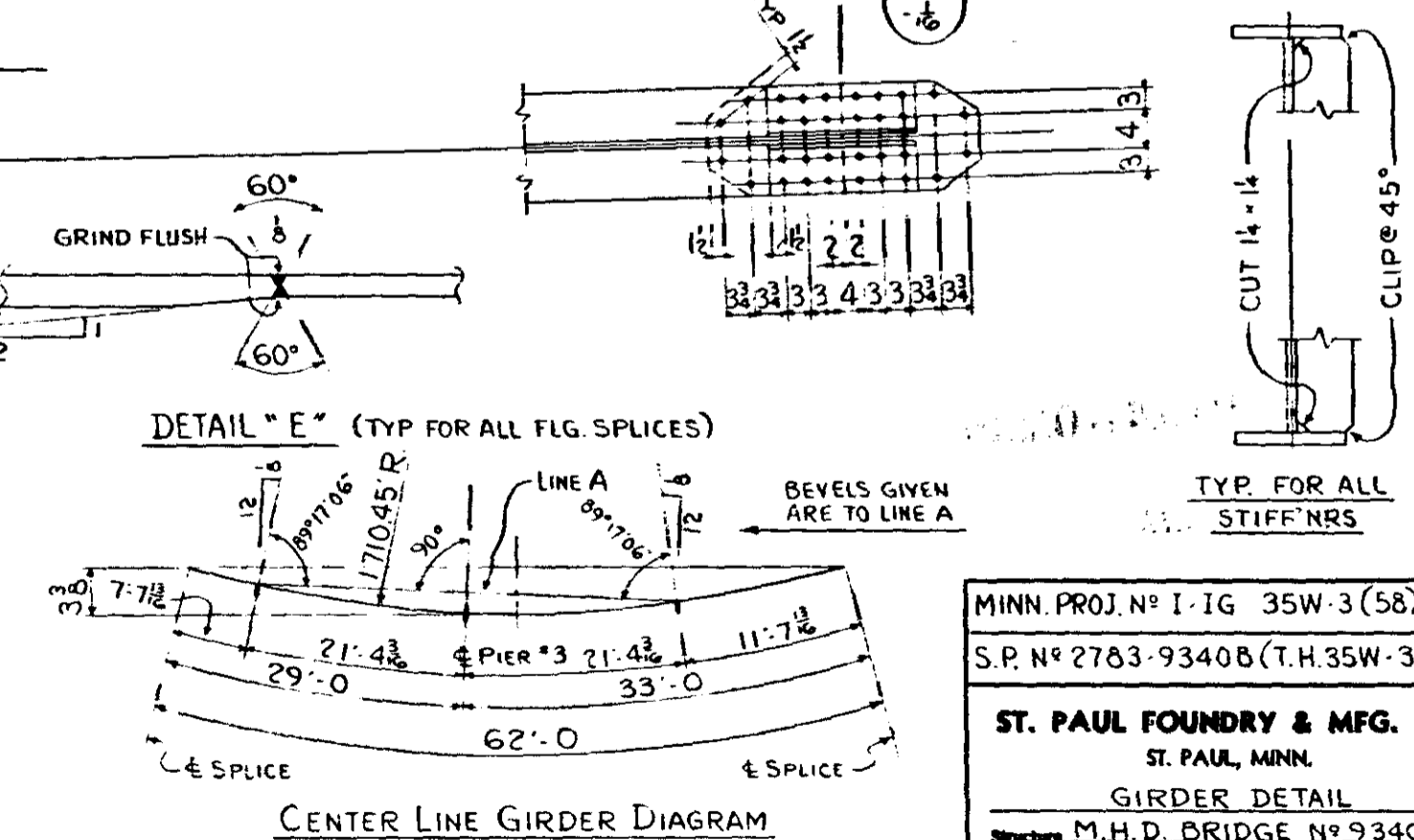
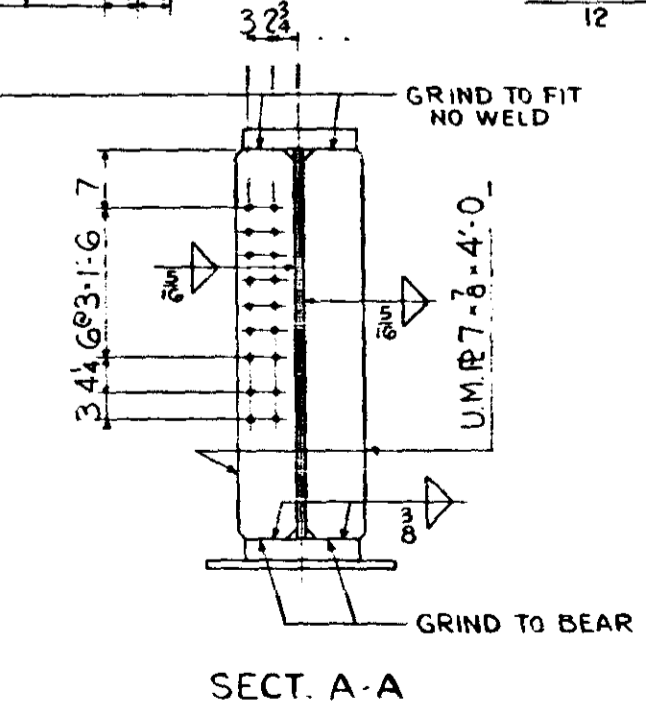
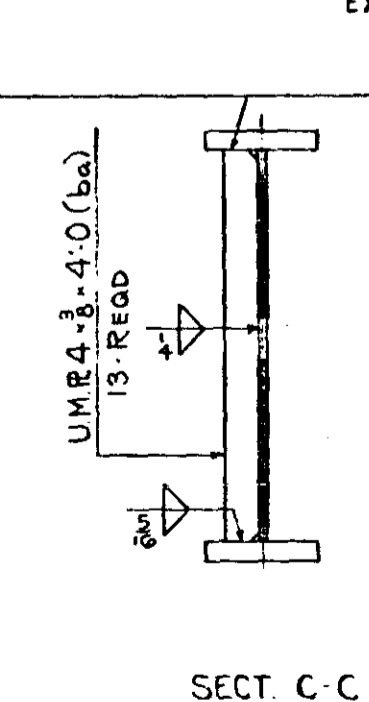
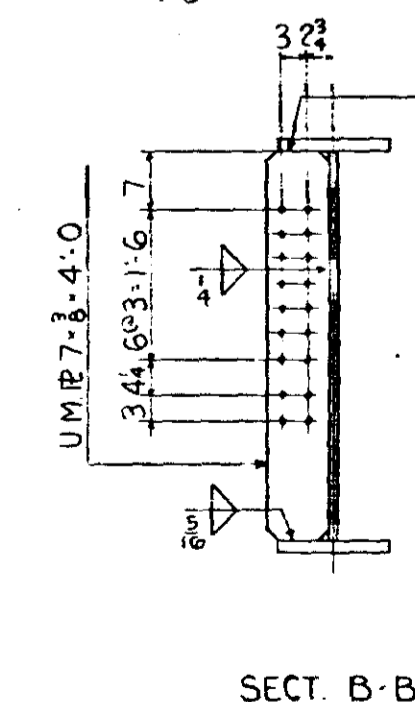
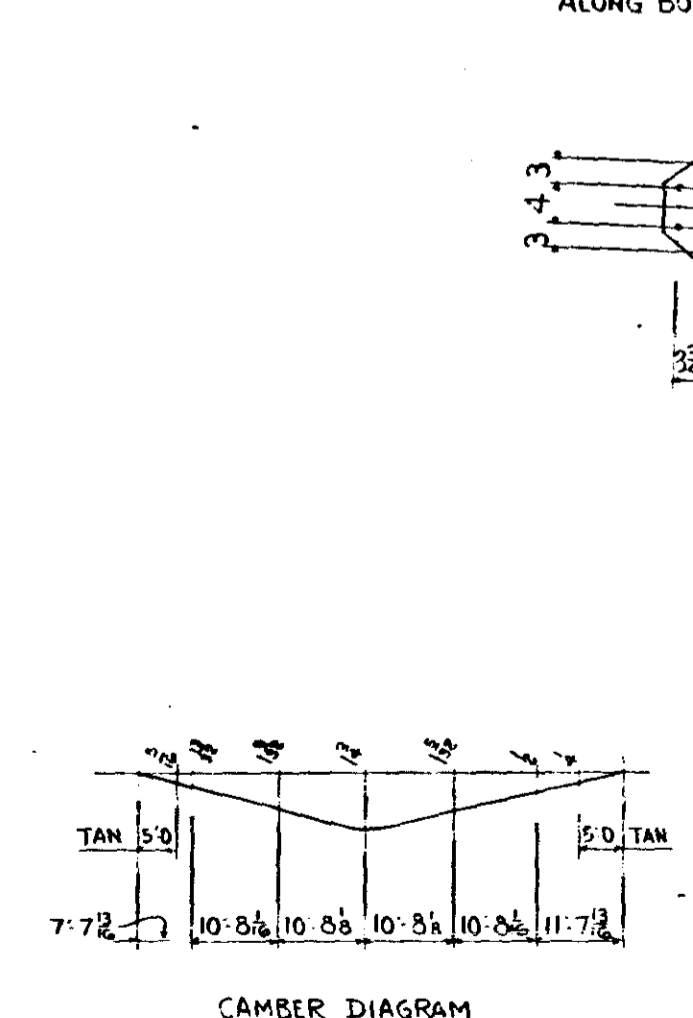
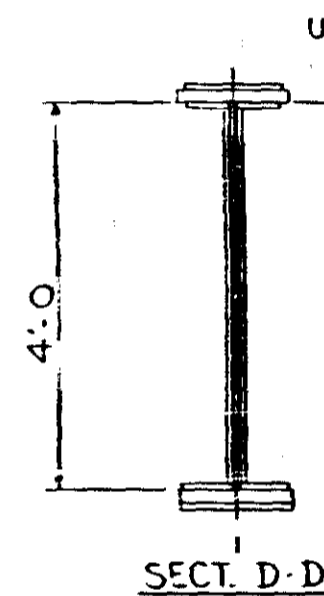
NO.	REVISION	Made by	Date



NOTE:
BOLT SPLICE MATL. FOR SHPMT.
REMOVE ALL TACK WELDING IN SHOP

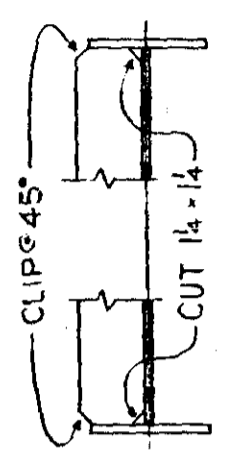
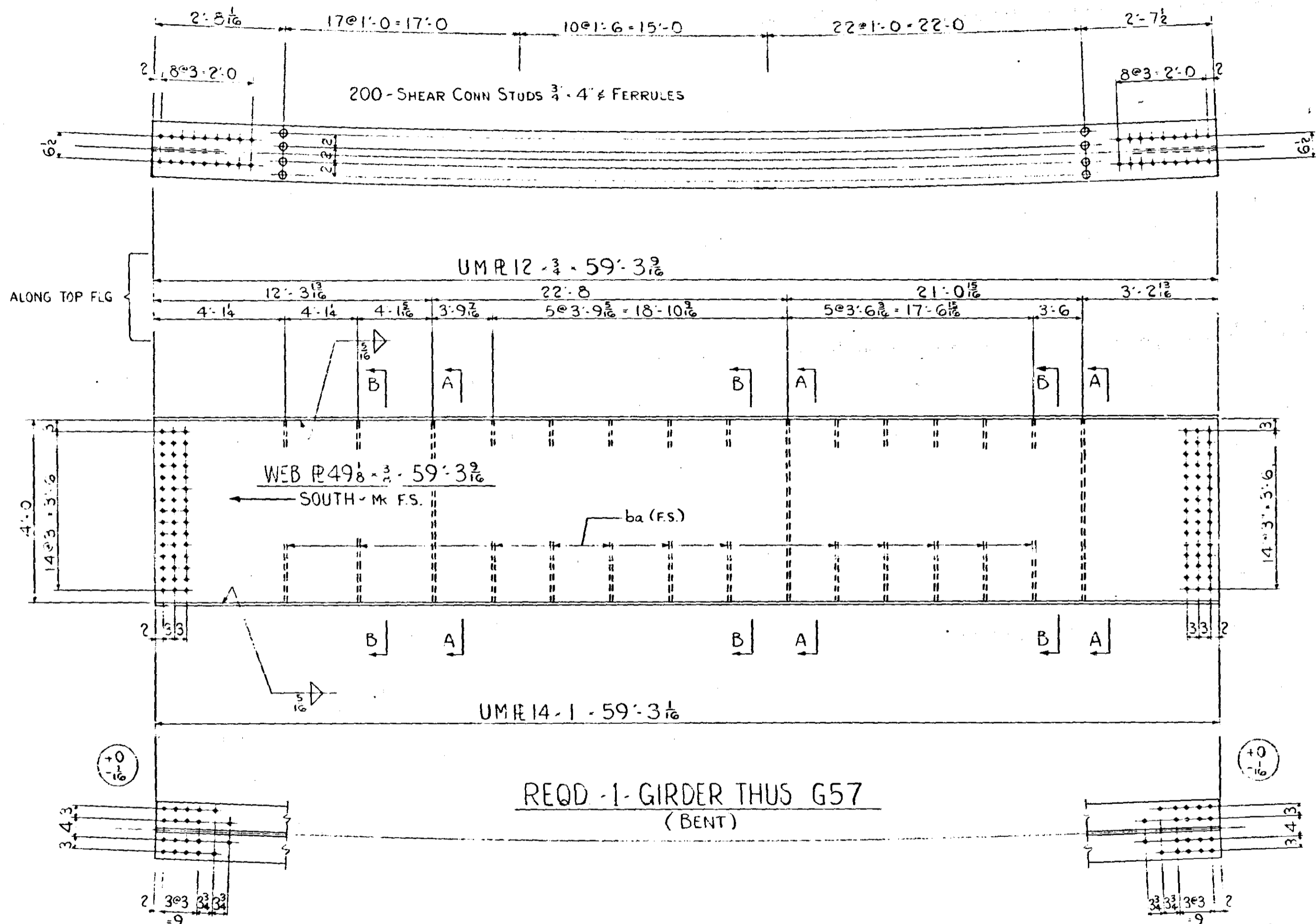
SHOP NOTE:
SEE DRWG #1
ALL STIFF'NRS & SOLE R's SET
ON RADIAL LINES

GEN. NOTES:
SEE DRWG #1
FOR WELDING INSPECTION
SEE GEN. NOTES

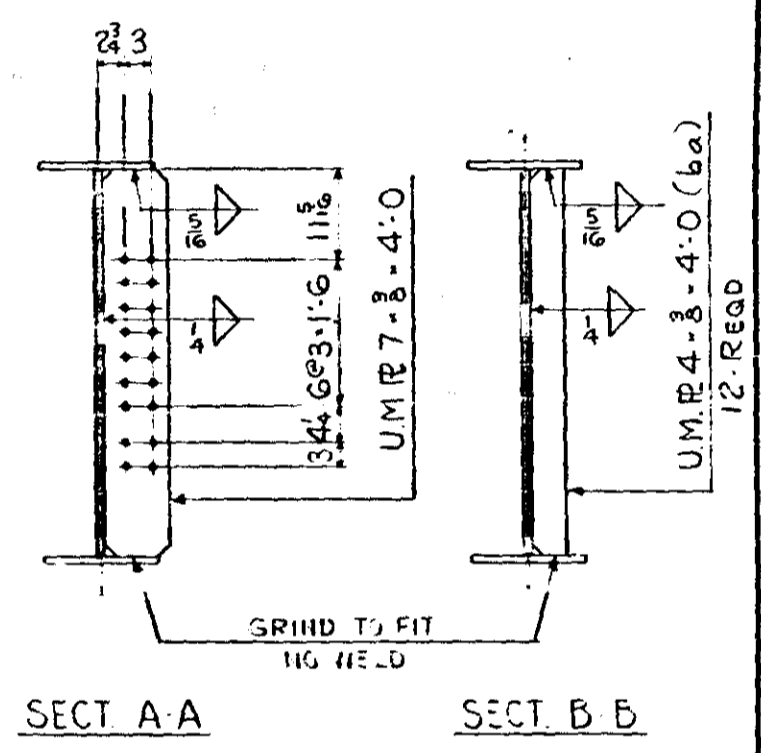


MINN. PROJ. NO I-IG 35W-3 (58) 112
S.P. NO 2783-9340B (T.H.35W-394)
ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.
GIRDER DETAIL
Structure M.H.D. BRIDGE NO 9340
Location MPLS., MINN.
Contractor INDUSTRIAL CONSTR. CO.
Made by W.E.S. Checked by R.P.
Date 4-13-66 Shop 4-13-66
ORDER NO 32647 DRAWING NO 56
FORM 19-891

NO.	REVISION	Made by	Date

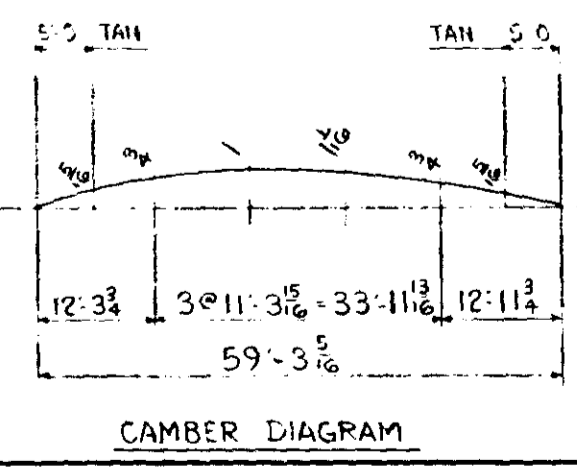
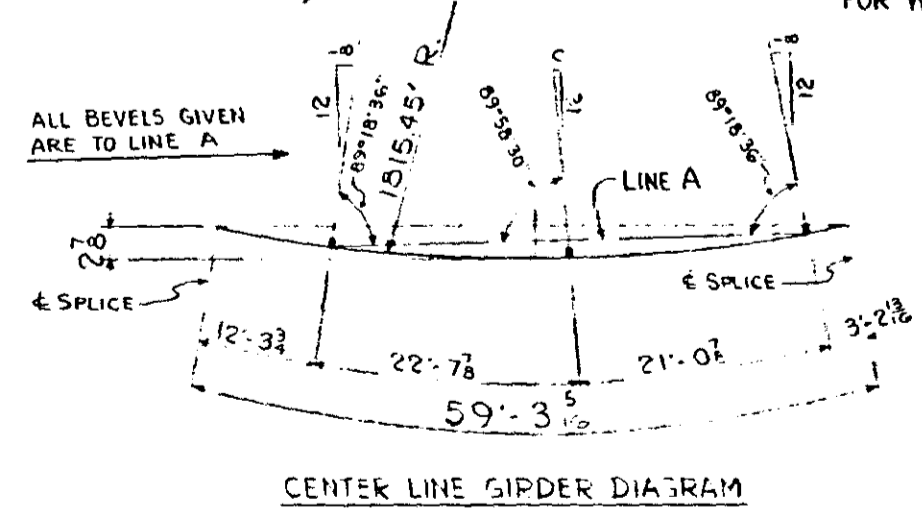


TYP FOR ALL STIFF'NRS



SHOP NOTE:
SEE DRWG #1

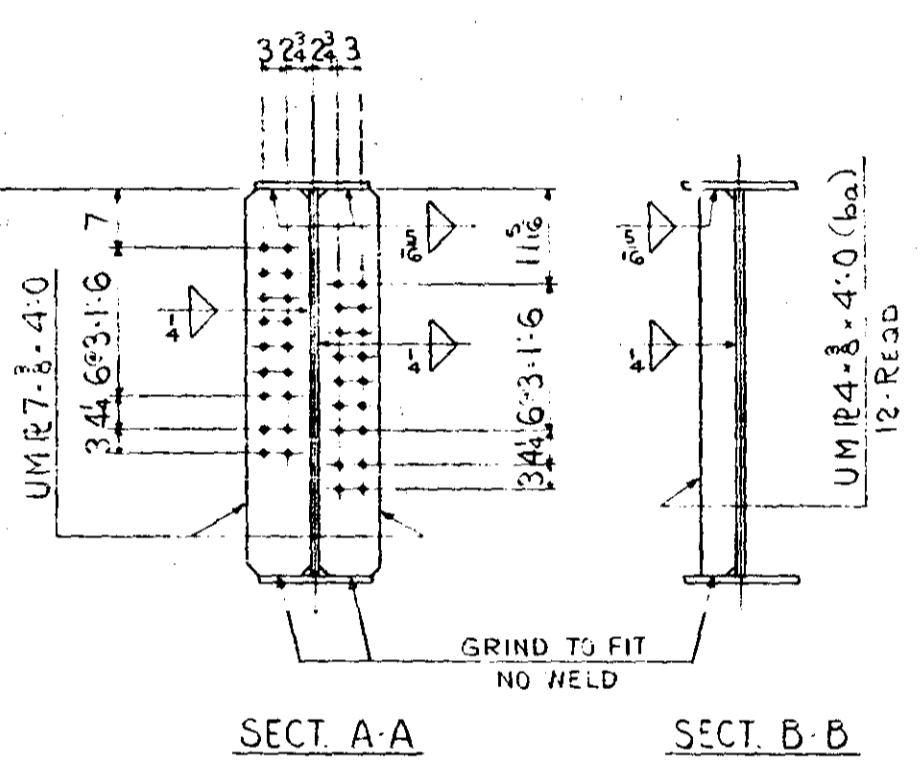
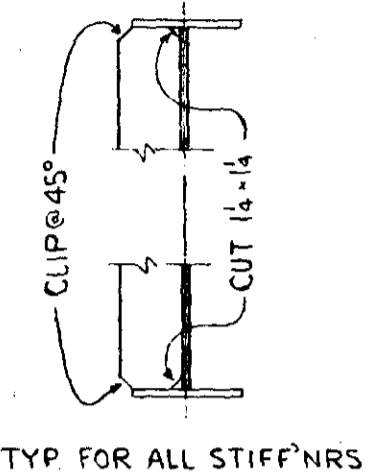
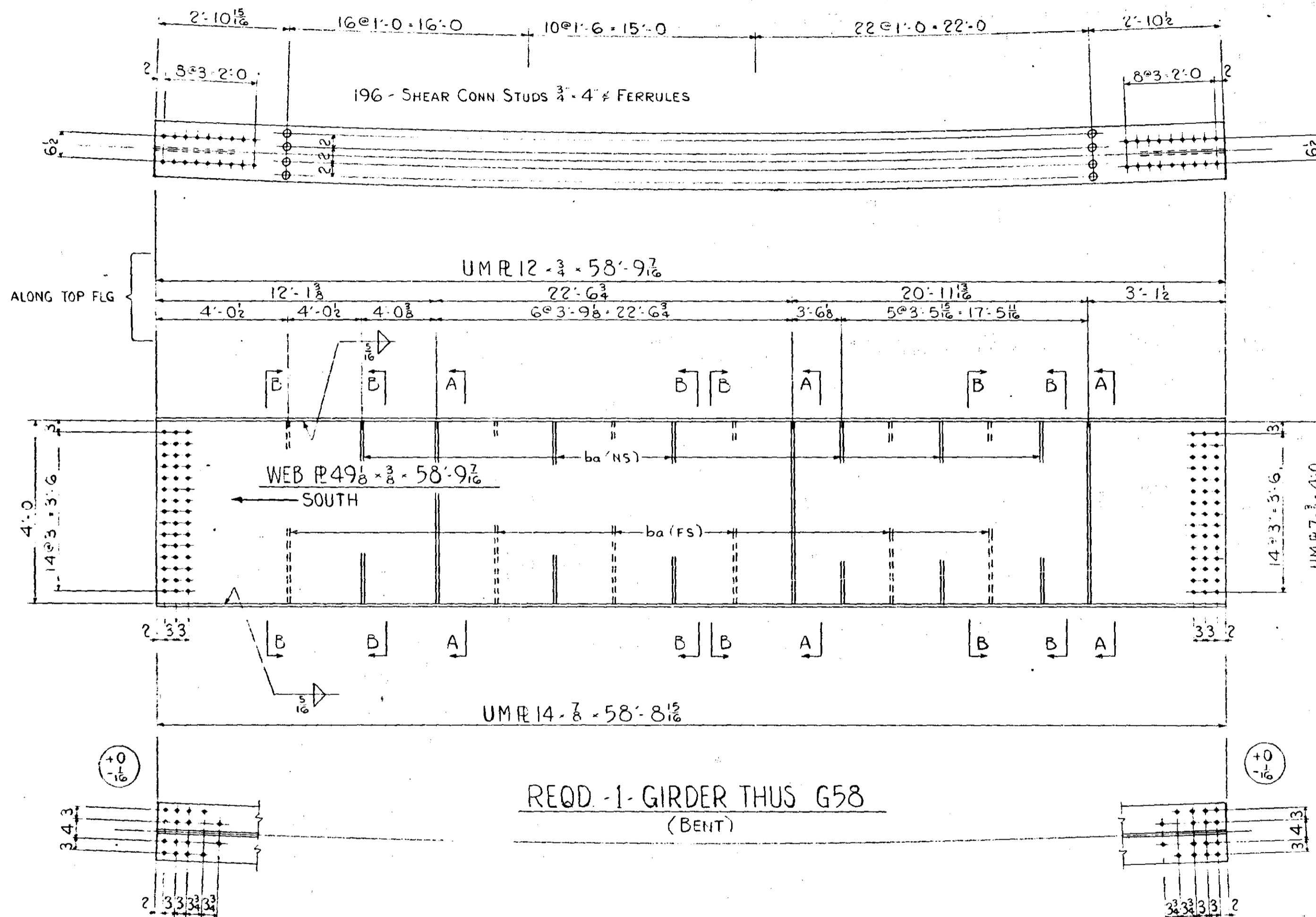
GEN NOTES:
SEE DRWG #1
FOR WELDING INSPECTION - SEE GEN NOTES



MINN. PROJ. FRAM.

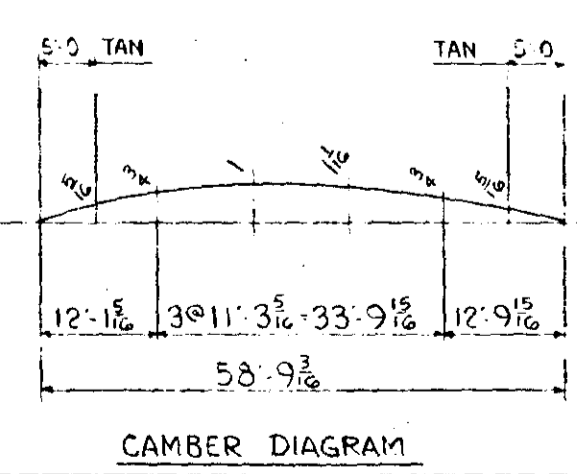
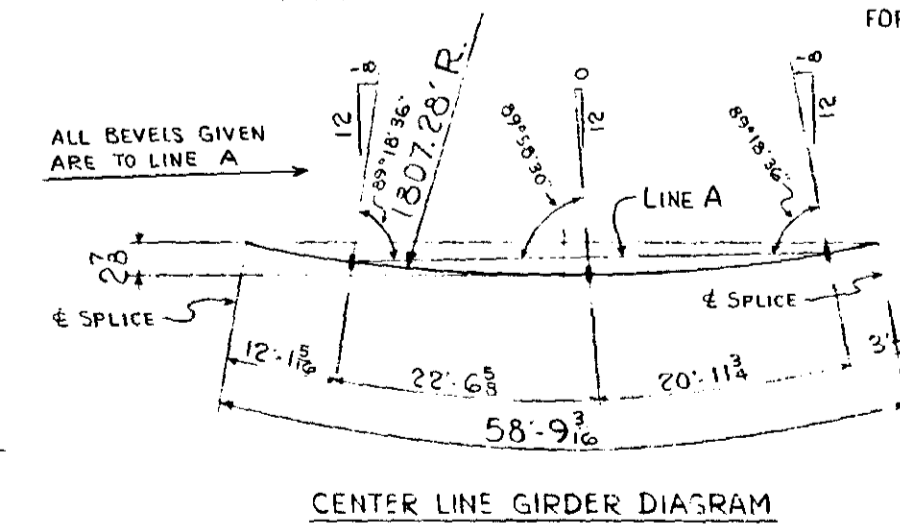
MINN. PROJ. N°1-1G 35W-3(56)112	
SPN° 2783-9340B (TH 35W-394)	
ST. PAUL FOUNDRY & MFG. CO. ST. PAUL, MINN.	
GIRDER DETAIL	
Structure M.H.D. BRIDGE 112-9340	
Location MPLS., MINN.	
Contractor INDUSTRIAL CONSTR. CO.	
Made by WES	Checked by RP
Date	Shop 4-20-66
ORDER NO. 32647	DRAWING NO. 57
NO.	REVISION
Made by	Date

NO.	REVISION	Made by	Date

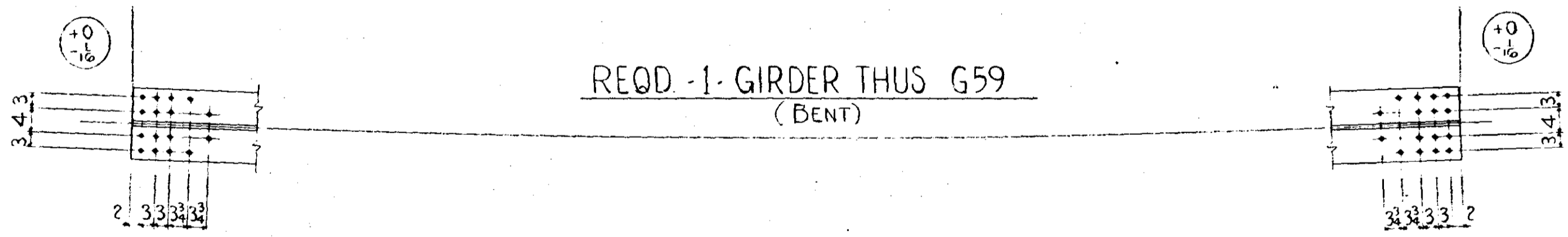
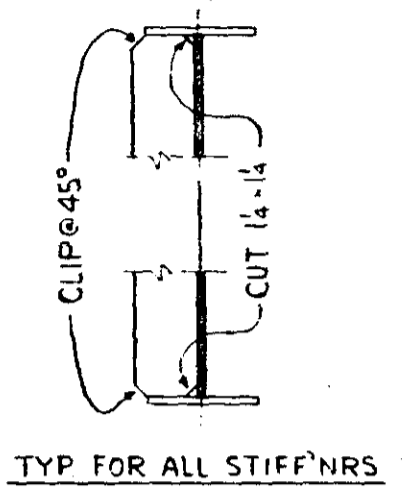
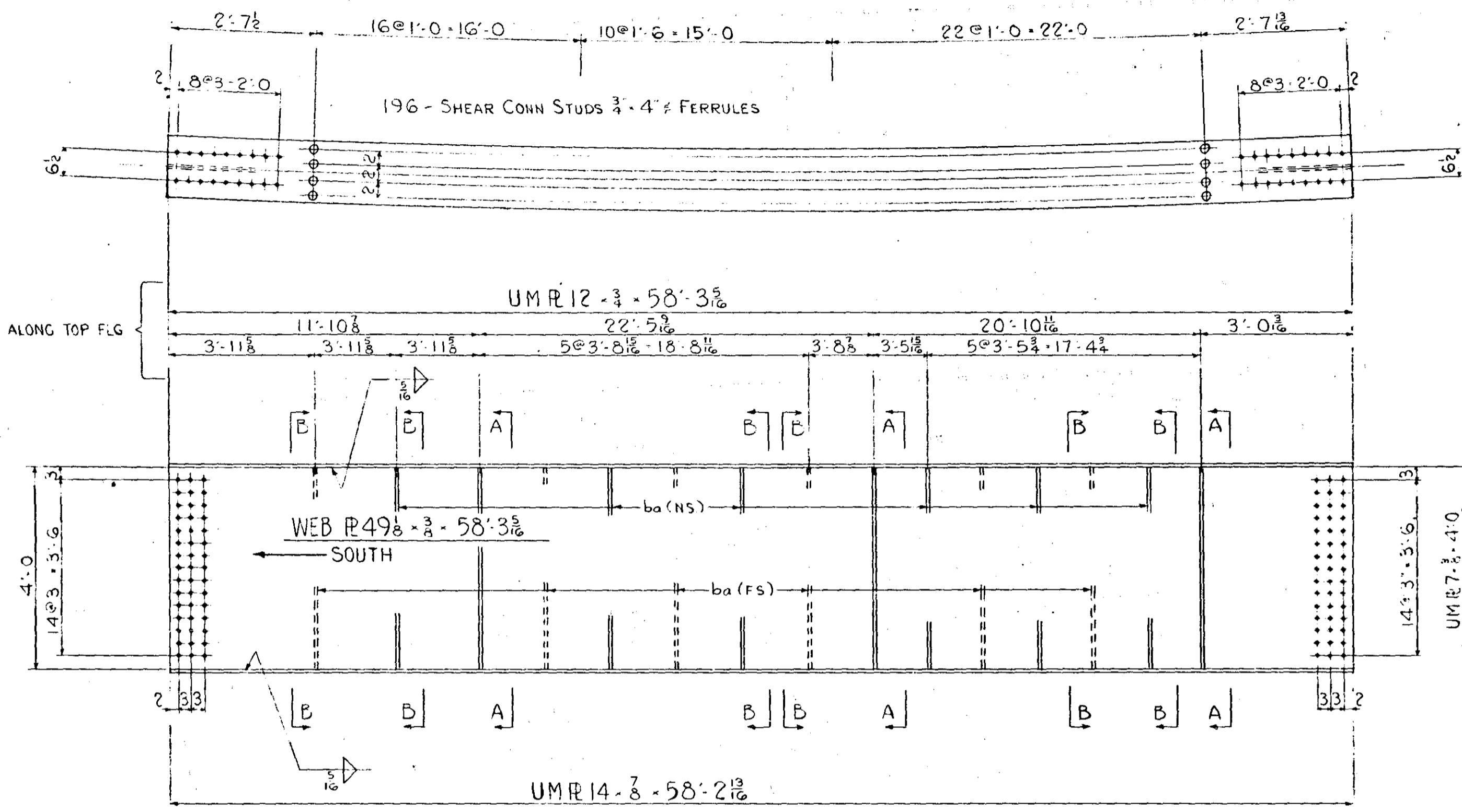


SHOP NOTE:
SEE DRWG #1

GEN NOTES:
SEE DRWG #1
FOR WELDING INSPECTION · SEE GEN. NOTES

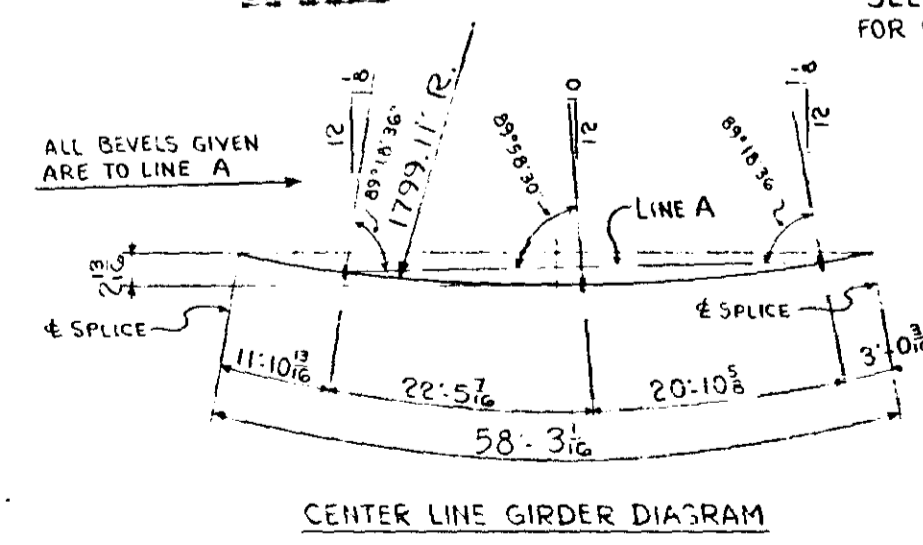
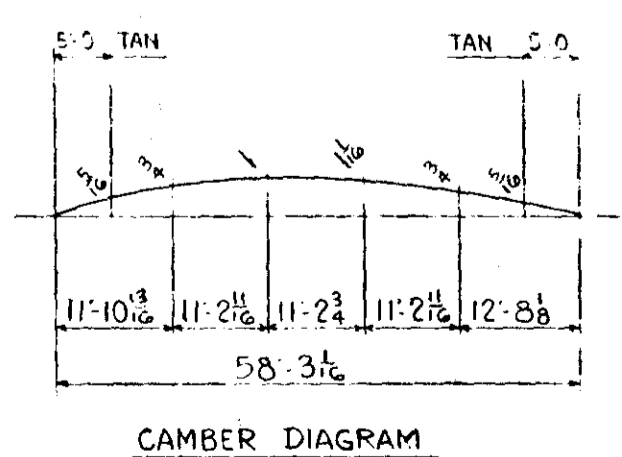


MINN. PROJ N° 1-1G 35W-3(58)112	
S.P. N° 2783-9340B (T.H. 35W-394)	
ST. PAUL FOUNDRY & MFG. CO. ST. PAUL, MINN.	
GIRDER DETAIL	
Structure	M.H.D. BRIDGE N° 9340
Location	MPLS., MINN.
Contractor	INDUSTRIAL CONSTR. CO.
Made by	WES
Checked by	
Date	Shop 4-20-66
ORDER NO. 32647	DRAWING NO. 58
NO.	REVISION
Made by	Date



SHOP NOTE:
SEE DRWG #1

GEN NOTES:
SEE DRWG #1
FOR WELDING INSPECTION - SEE GEN. NOTES



NO.	REVISION	Made by	Date

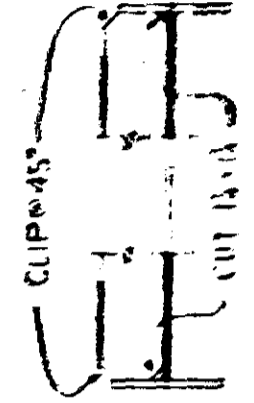
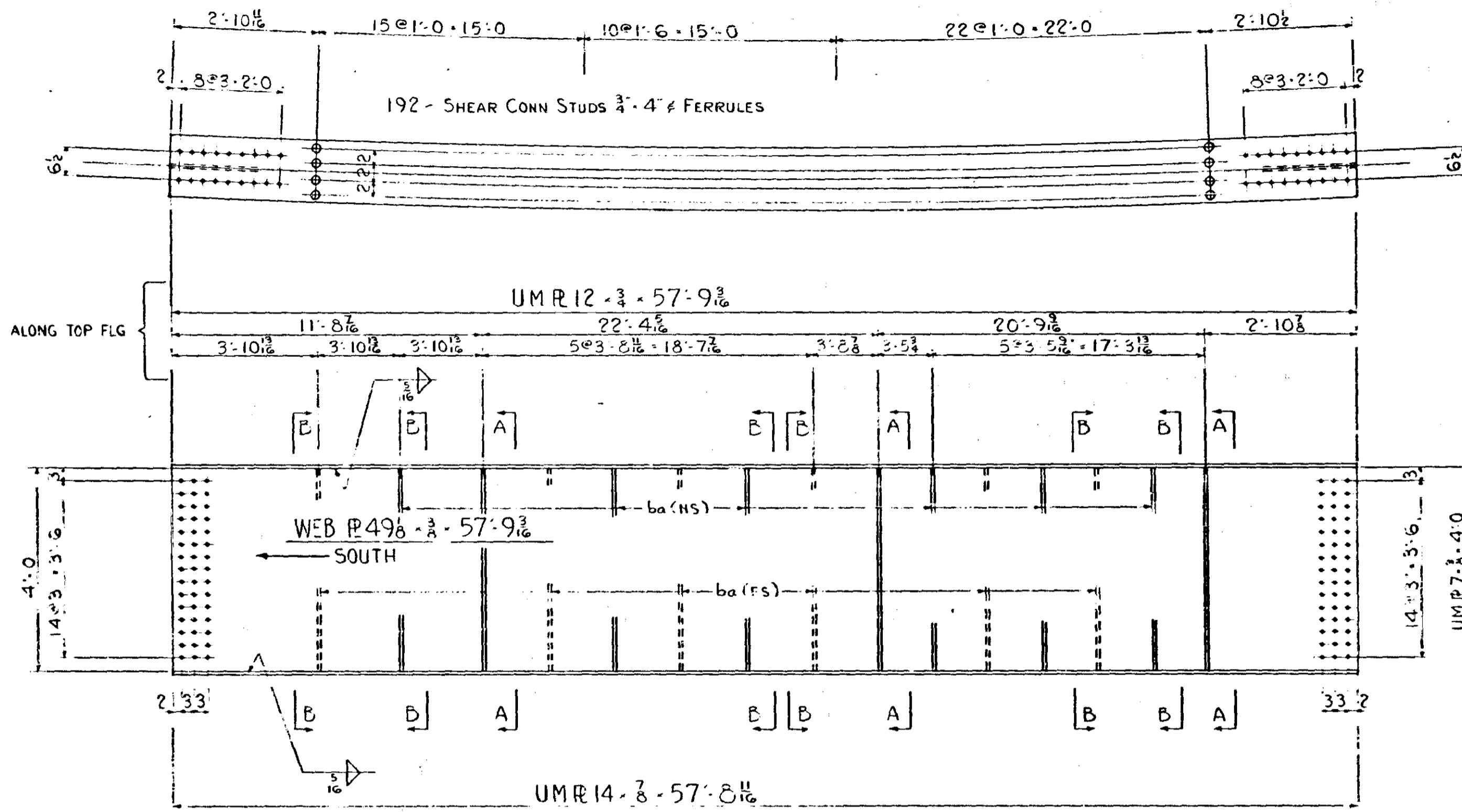
MINN. PROJ. NO. 1-16 35W-3(58)112
 S.P. NO. 2783-9340B (T.H. 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

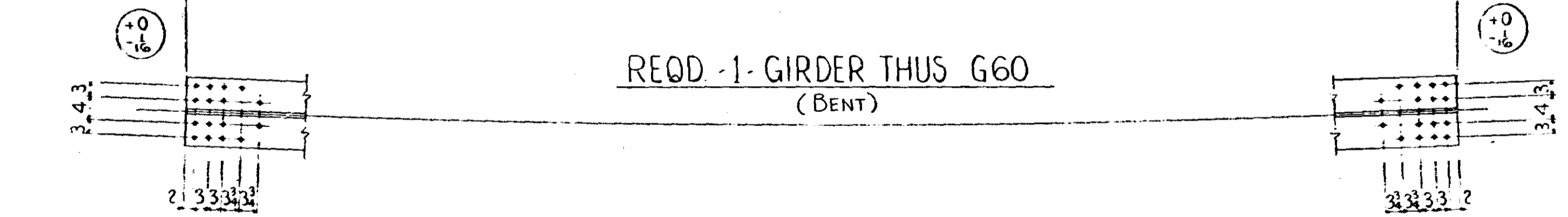
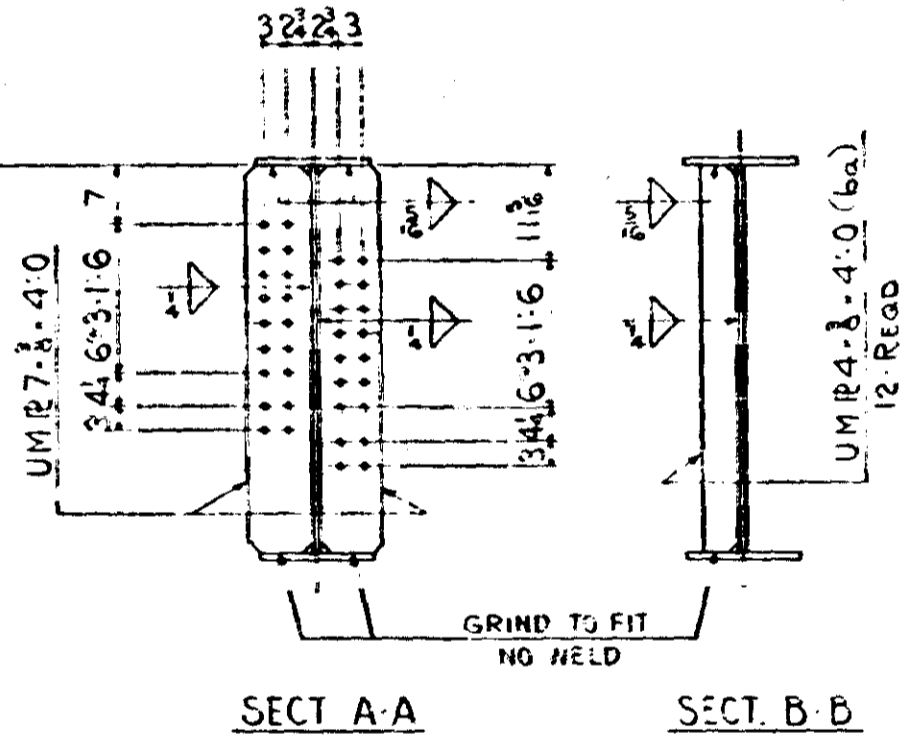
GIRDER DETAIL

Structure: M.H.D. BRIDGE NO. 9340
 Location: MPLS., MINN.
 Contractor: INDUSTRIAL CONSTR. CO.
 Made by: WES
 Checked by: RP
 Date: 4-20-66
 Shop: 4-20-66
 ORDER NO. 32647
 DRAWING NO. 59

FORM 15-64A

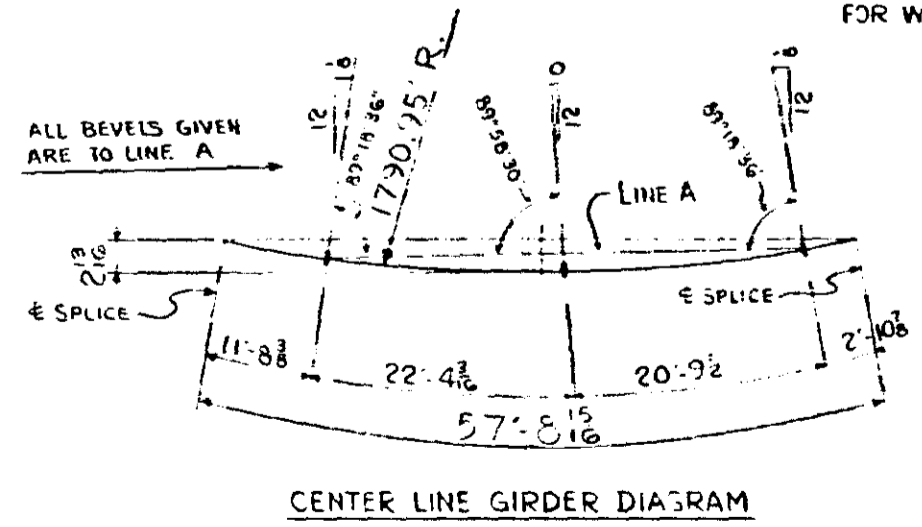
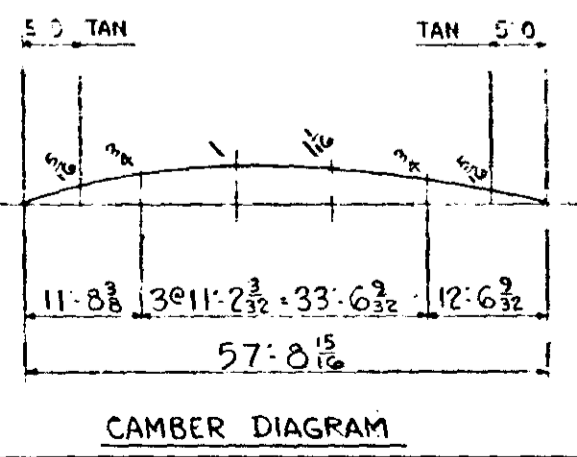


TYP FOR ALL STIFFENERS



SHOP NOTE:
SEE DRWG #1

GEN NOTES:
SEE DRWG #1
FOR WELDING INSPECTION - SEE GEN. NOTES



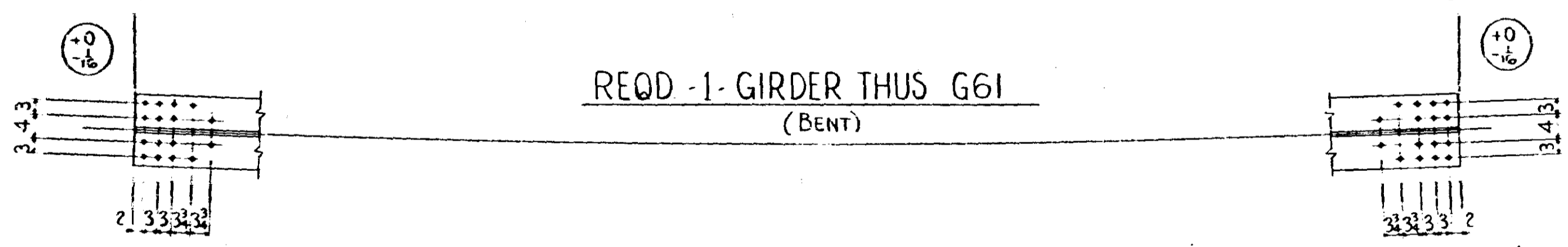
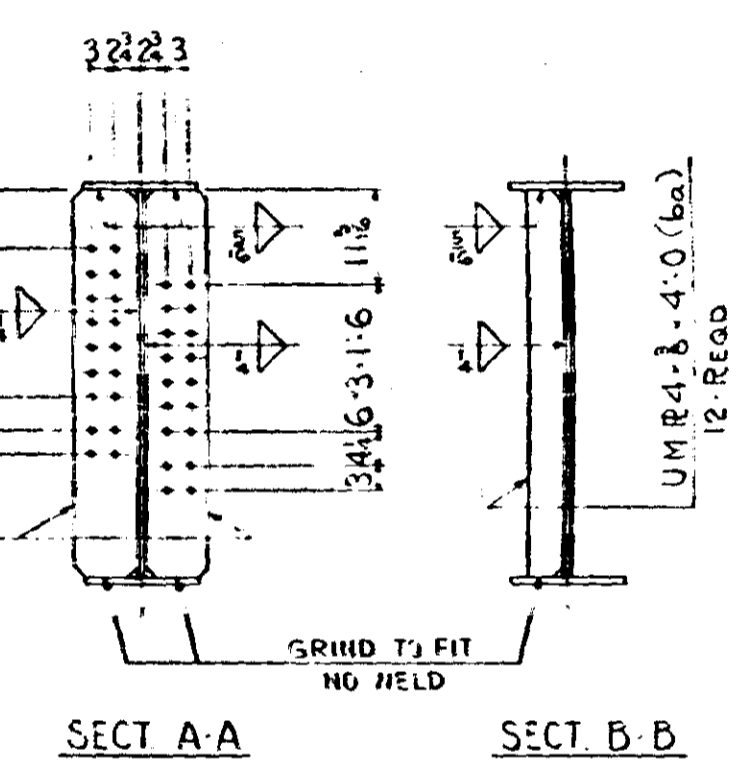
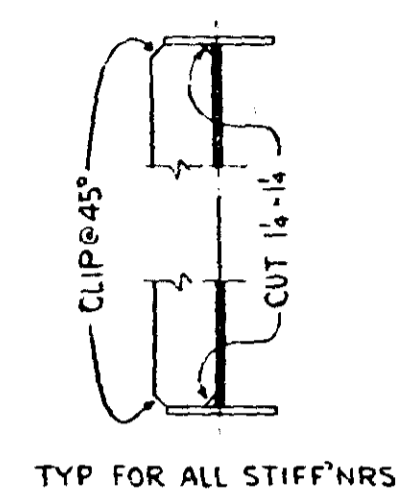
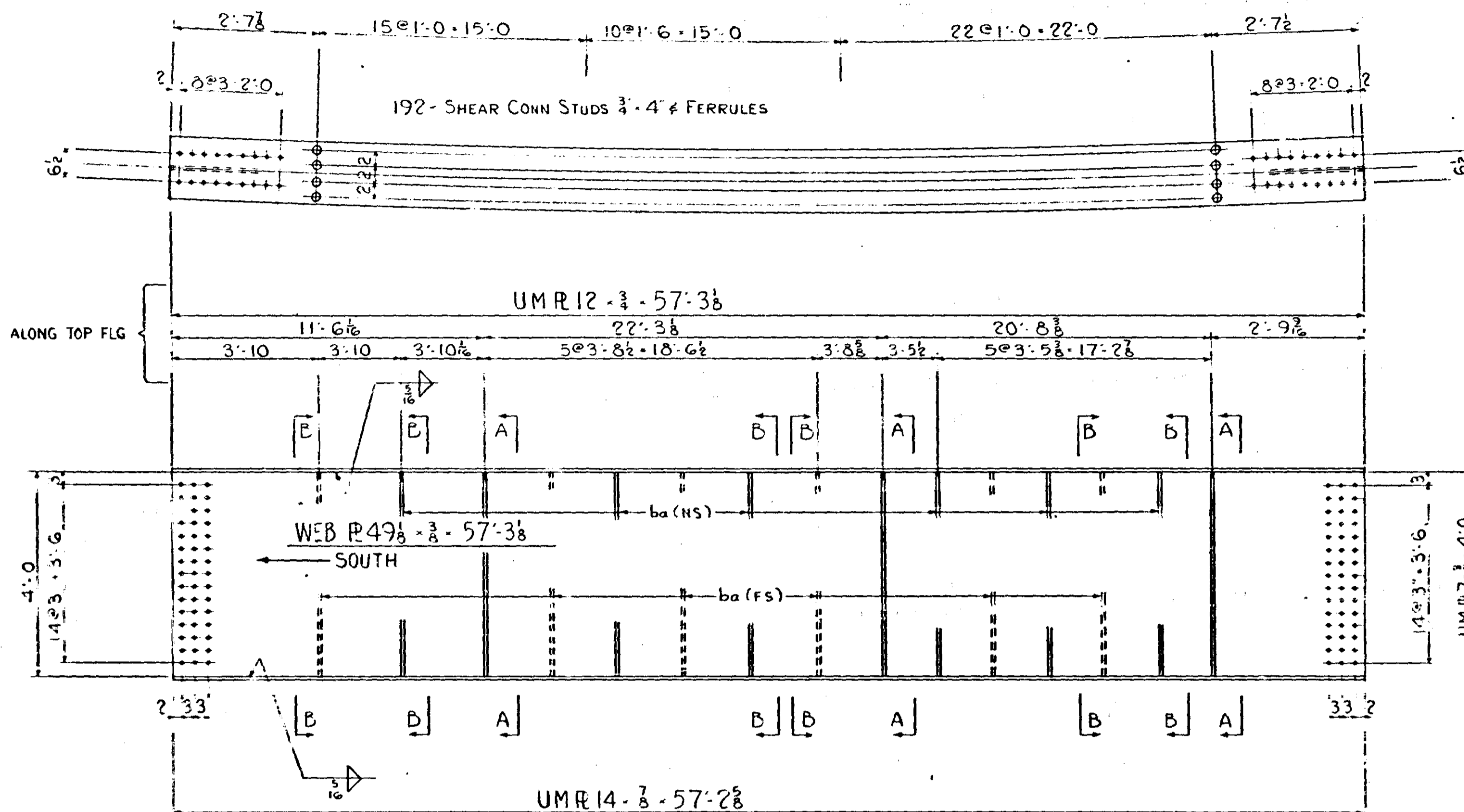
MINN. PROJ N° 1-16 35W-3 (58) 112
S.P. N° 2783-9340B (T.H. 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

GIRDER DETAIL

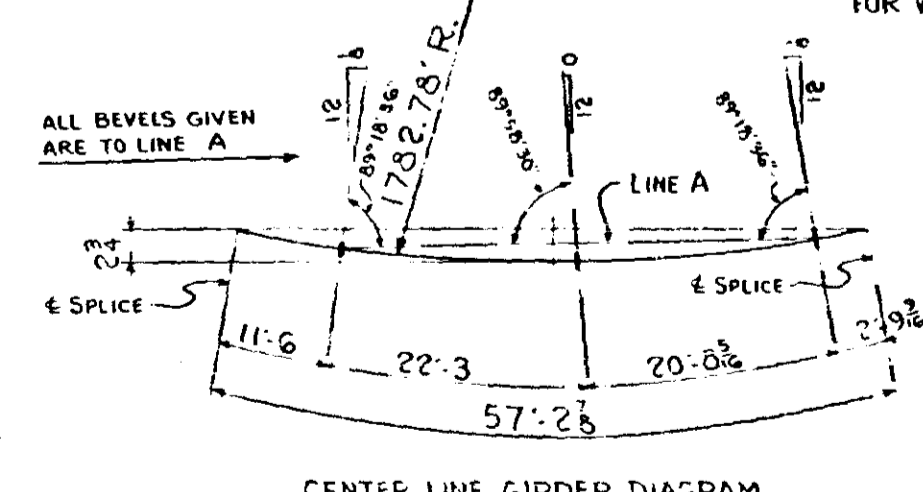
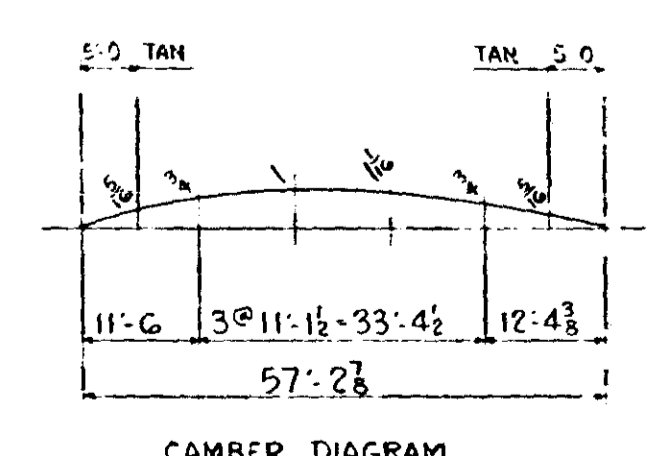
Structure M.H.D. BRIDGE N° 9340
Location MPLS., MINN.
Contractor INDUSTRIAL CONSTR. CO.
Made by W.E.S. Checked by R.P.
Date 4-20-66 Shop
ORDER NO. 32647 DRAWING NO. 60

NO.	REVISION	Made by	Date



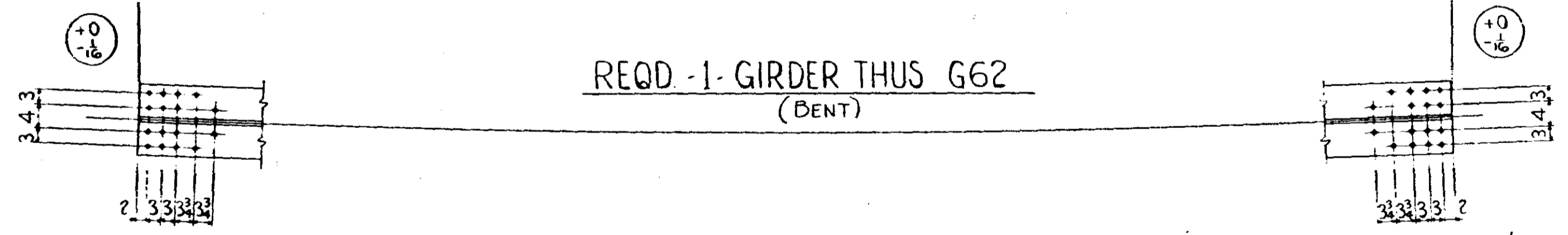
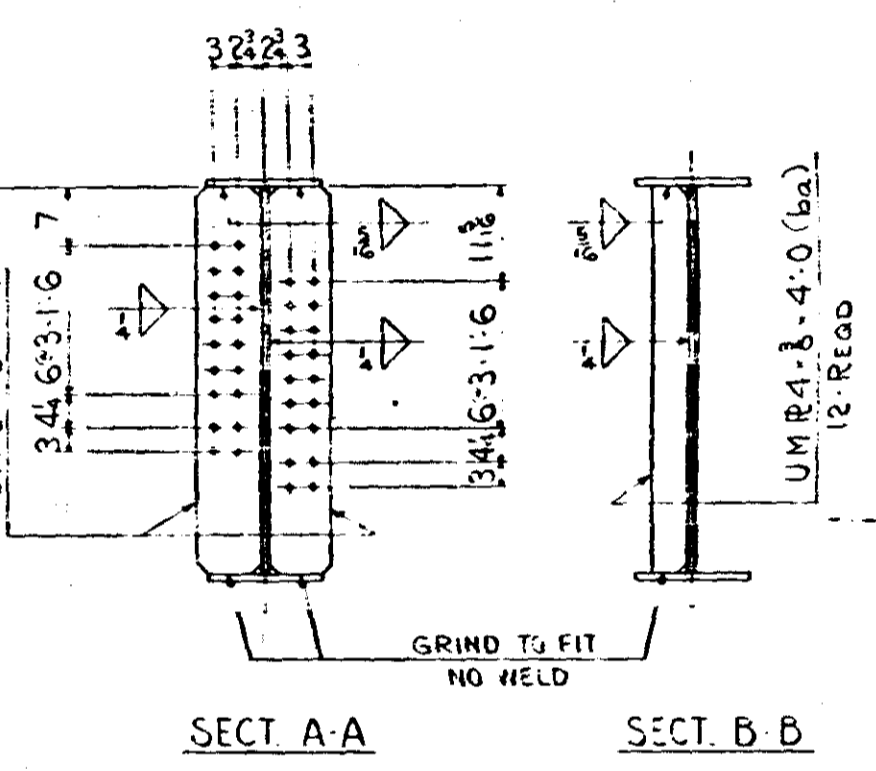
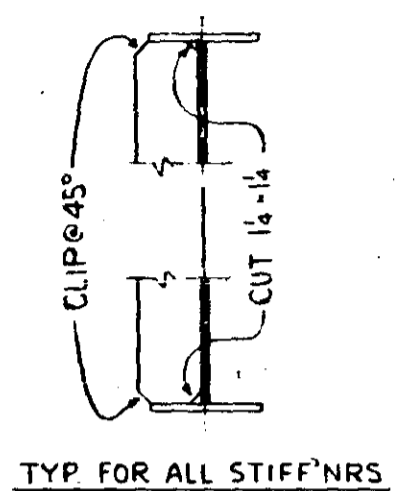
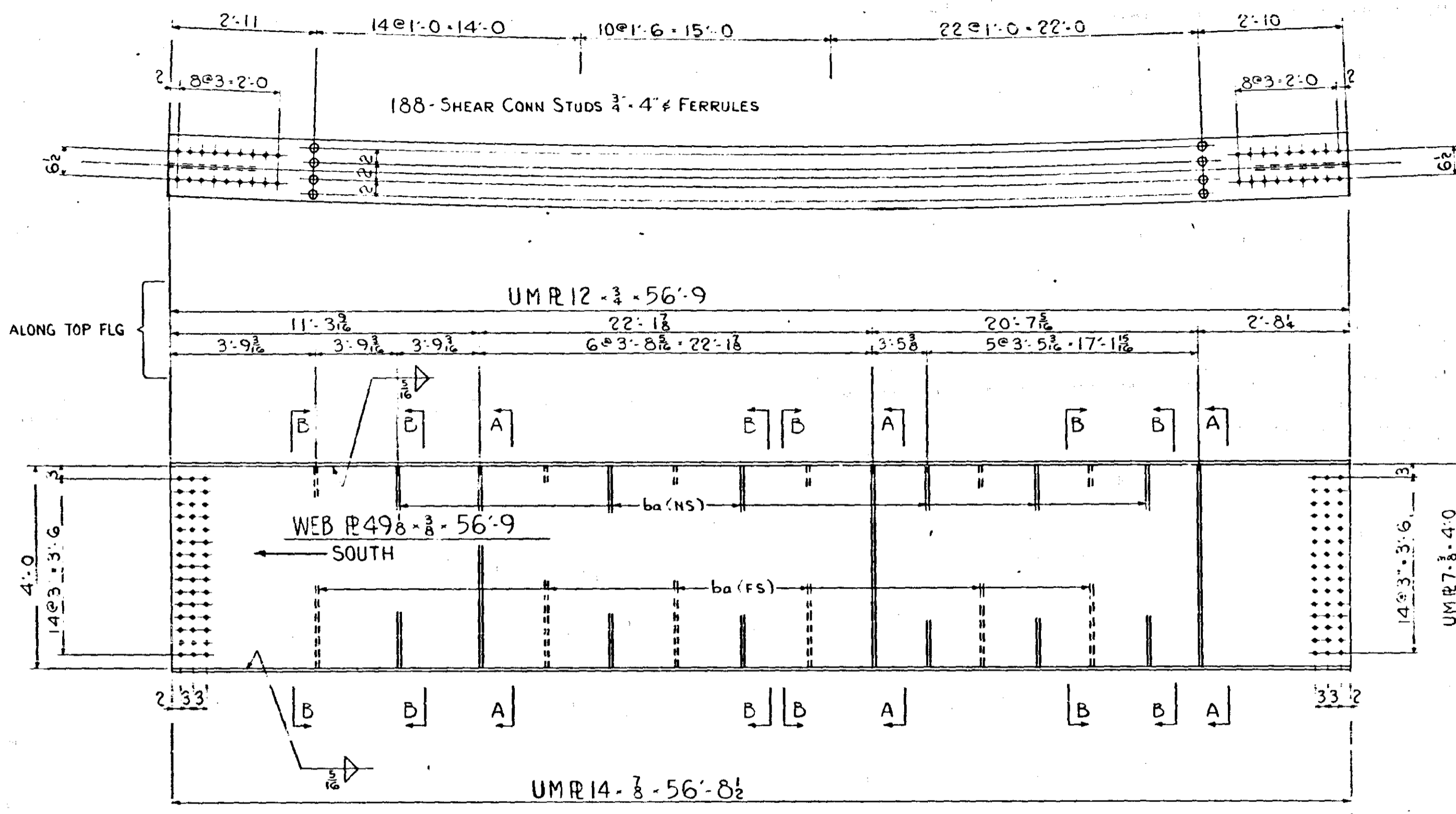
SHOP NOTE:
SEE DRWG #1

GEN NOTES:
SEE DRWG #1
FOR WELDING INSPECTION - SEE GEN NOTES



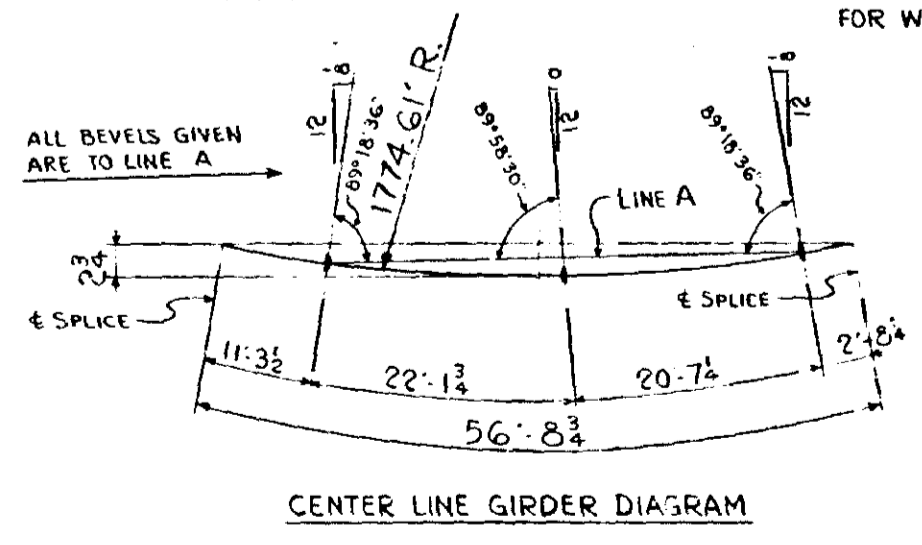
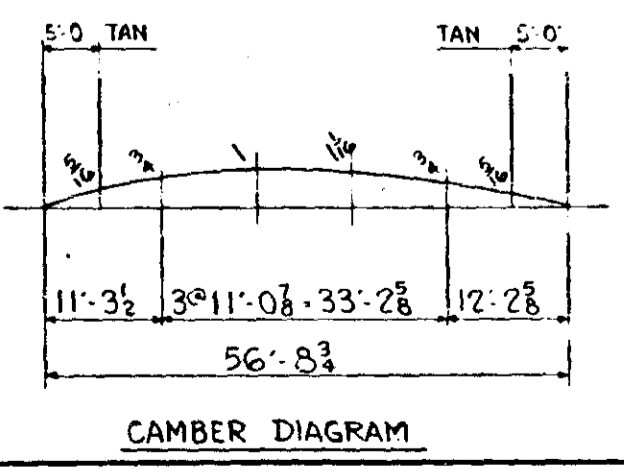
MINN. PROJ #1-IG 35W-3(58)112	
SPN# 2783-9340B (T.H.35W-394)	
ST. PAUL FOUNDRY & MFG. CO. ST. PAUL, MINN.	
GIRDER DETAIL	
Director: M.H.D. BRIDGE # 9340	
Location: MPLS., MINN.	
Contractor: INDUSTRIAL CONSTR. CO.	
Made by: WES	Checked by: RP
Date: 4-20-66	Shop: 4-20-66
ORDER NO. 32647	DRAWING NO. 61
NO.	REVISION

NO.	REVISION	Made by	Date

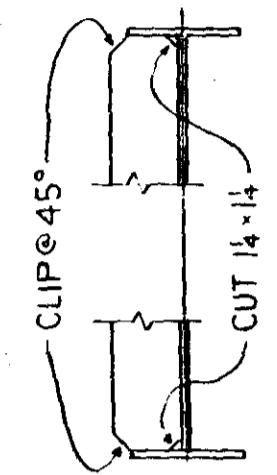
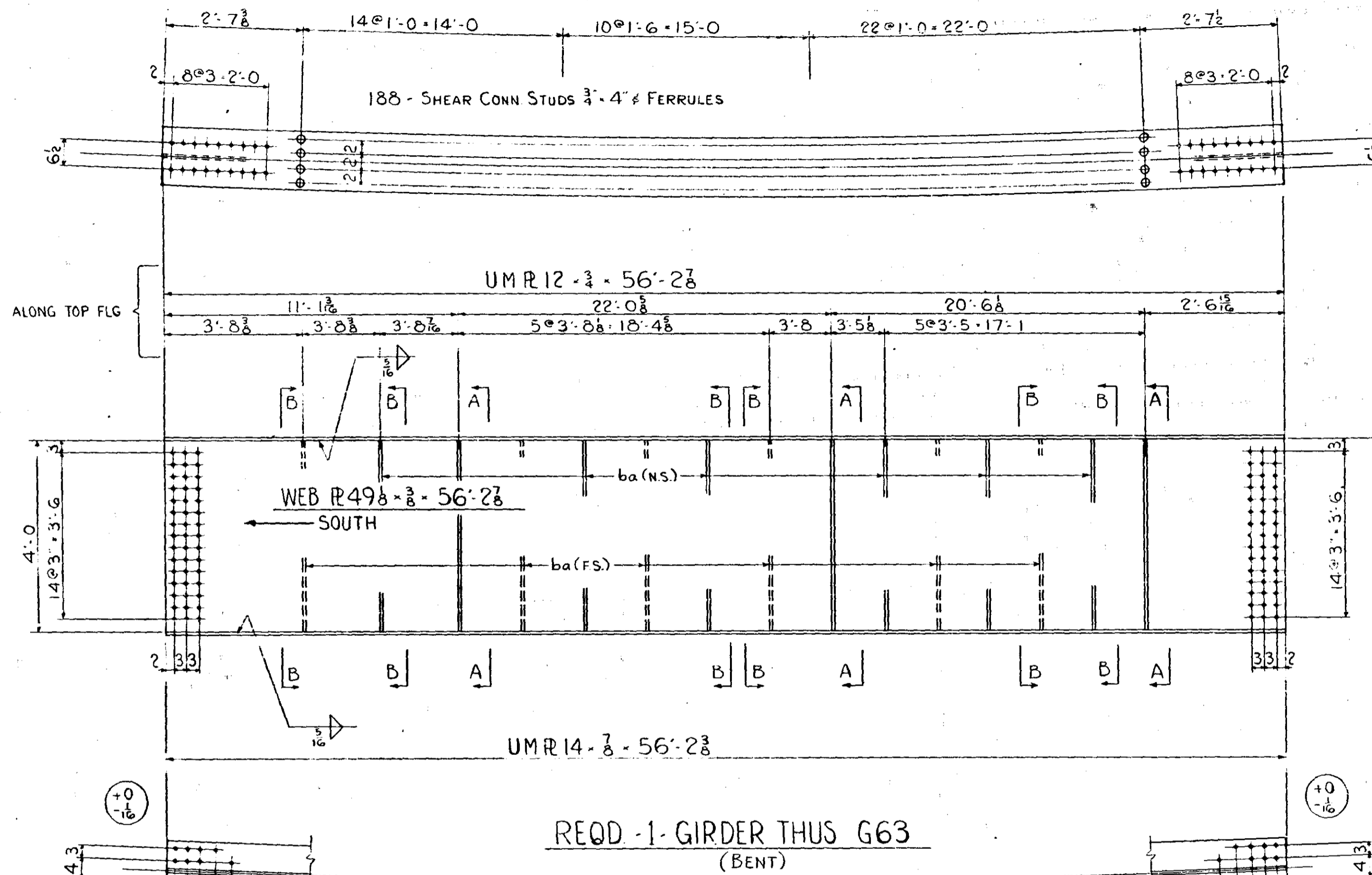


SHOP NGTE:
SEE DRWG #1

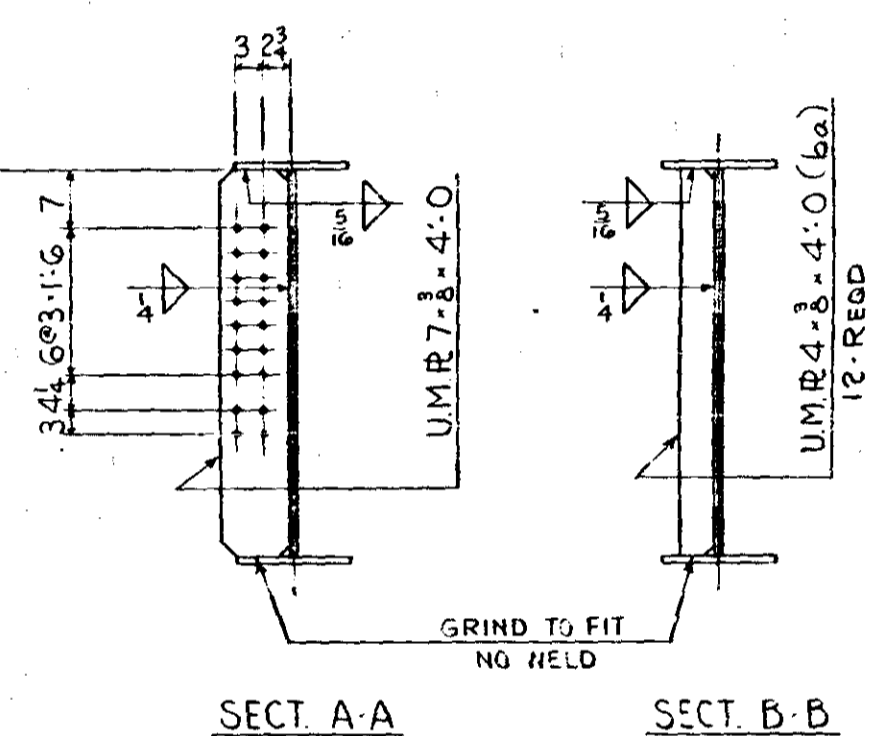
GEN NOTES:
SEE DRWG #1
FOR WELDING INSPECTION - SEE GEN NOTES



MINN. PROJ. N° 1-1G 35W-3 (58) 112	
C.P. N° 2783-9340B (T.H. 35W-394)	
ST. PAUL FOUNDRY & MFG. CO.	
ST. PAUL, MINN.	
GIRDER DETAIL	
Structure M.H.D. BRIDGE N° 9340	
Location MPLS., MINN.	
Contractor INDUSTRIAL CONSTR. CO.	
Made by W.E.S.	Checked by R.P.
Date 4-20-66	Shop 4-20-66
ORDER NO. 32647	DRAWING NO. 62
NO.	REVISION



TYP. FOR ALL STIFF'NRS

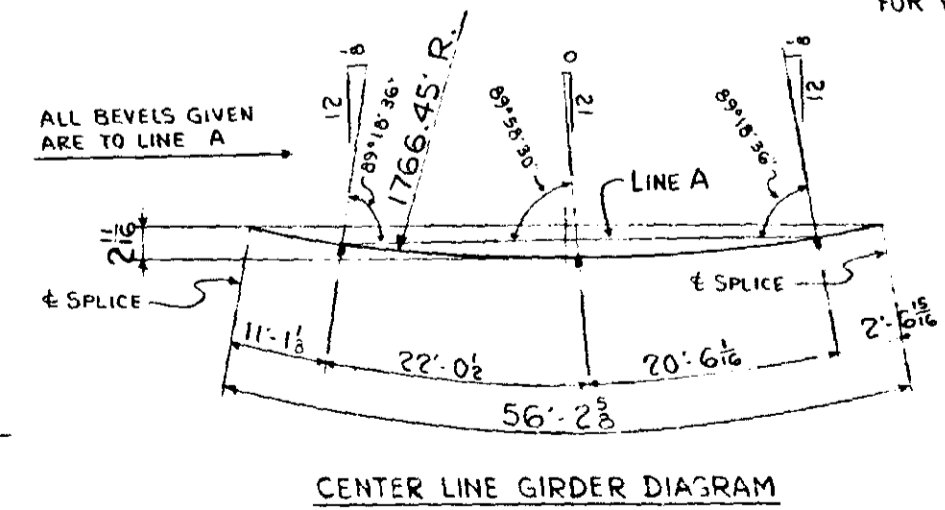
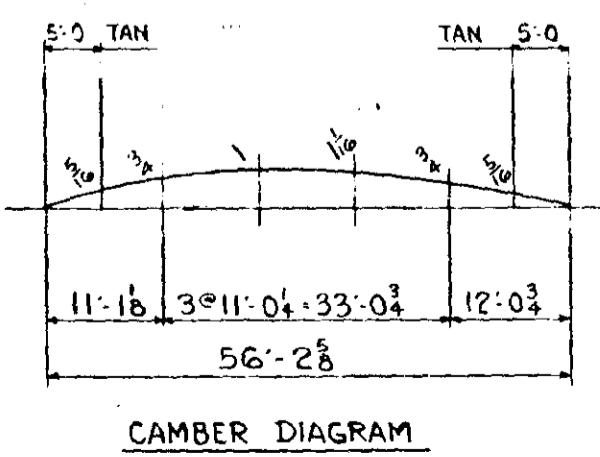


SECT. A-A

SECT. B-B

SHOP NOTE:
SEE DRWG #1

GEN. NOTES:
SEE DRWG #1
FOR WELDING INSPECTION - SEE GEN. NOTES



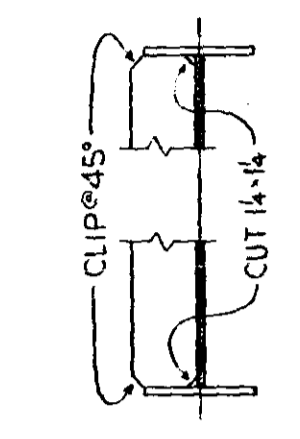
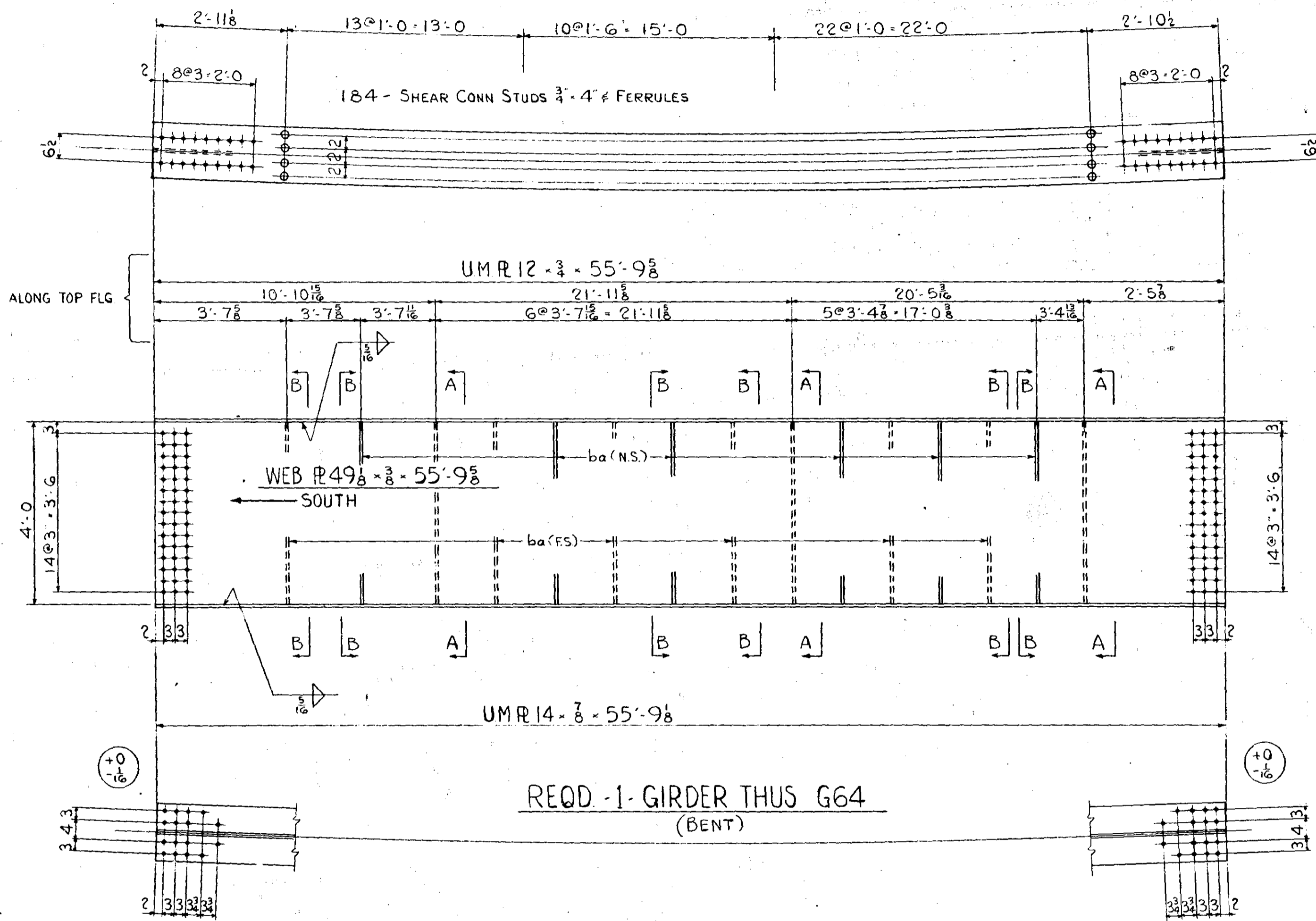
NO.	REVISION	Made by	DATE

MINN. PROJ. N° 1-1G 35W-3(58)112
 S.P. N° 2783-9340B (T.H. 35W-394)

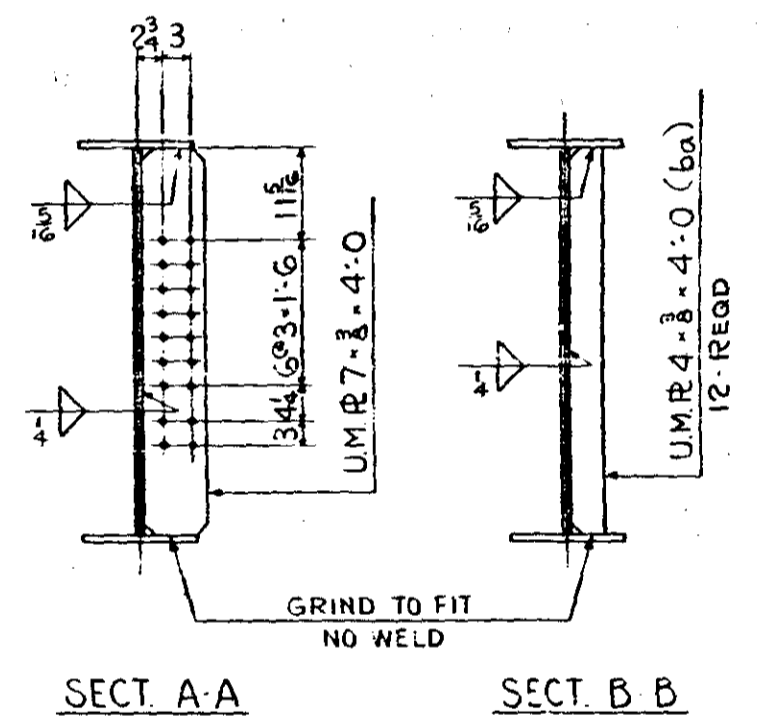
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

GIRDER DETAIL

Structure M.H.D. BRIDGE N° 9340
 Location MPLS., MINN.
 Contractor INDUSTRIAL CONSTR. CO.
 Made by WES Checked by RP
 Date 4-20-66 Shop 4-20-66
 ORDER NO. 32647 DRAWING NO. 63
 FORM 15-66H



TYP. FOR ALL STIFF'NRS

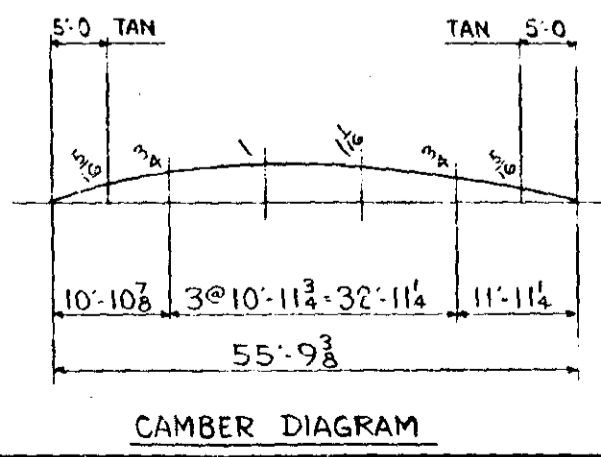


SECT. A-A

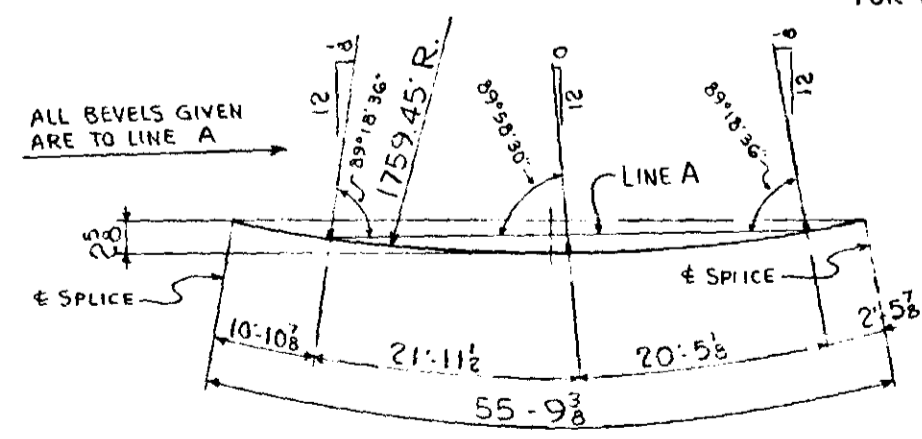
SECT. B-B

SHOP NOTE:
SEE DRWG *1

GEN NOTES:
SEE DRWG *1
FOR WELDING INSPECTION - SEE GEN. NOTES



CAMBER DIAGRAM



CENTER LINE GIRDER DIAGRAM

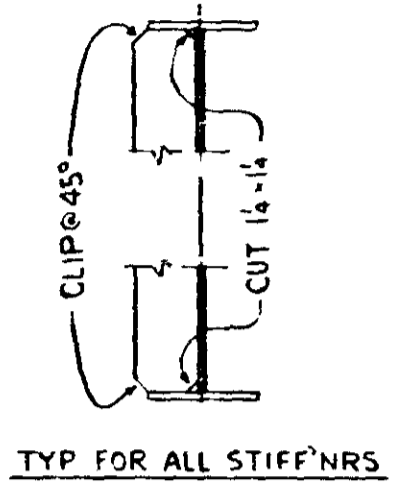
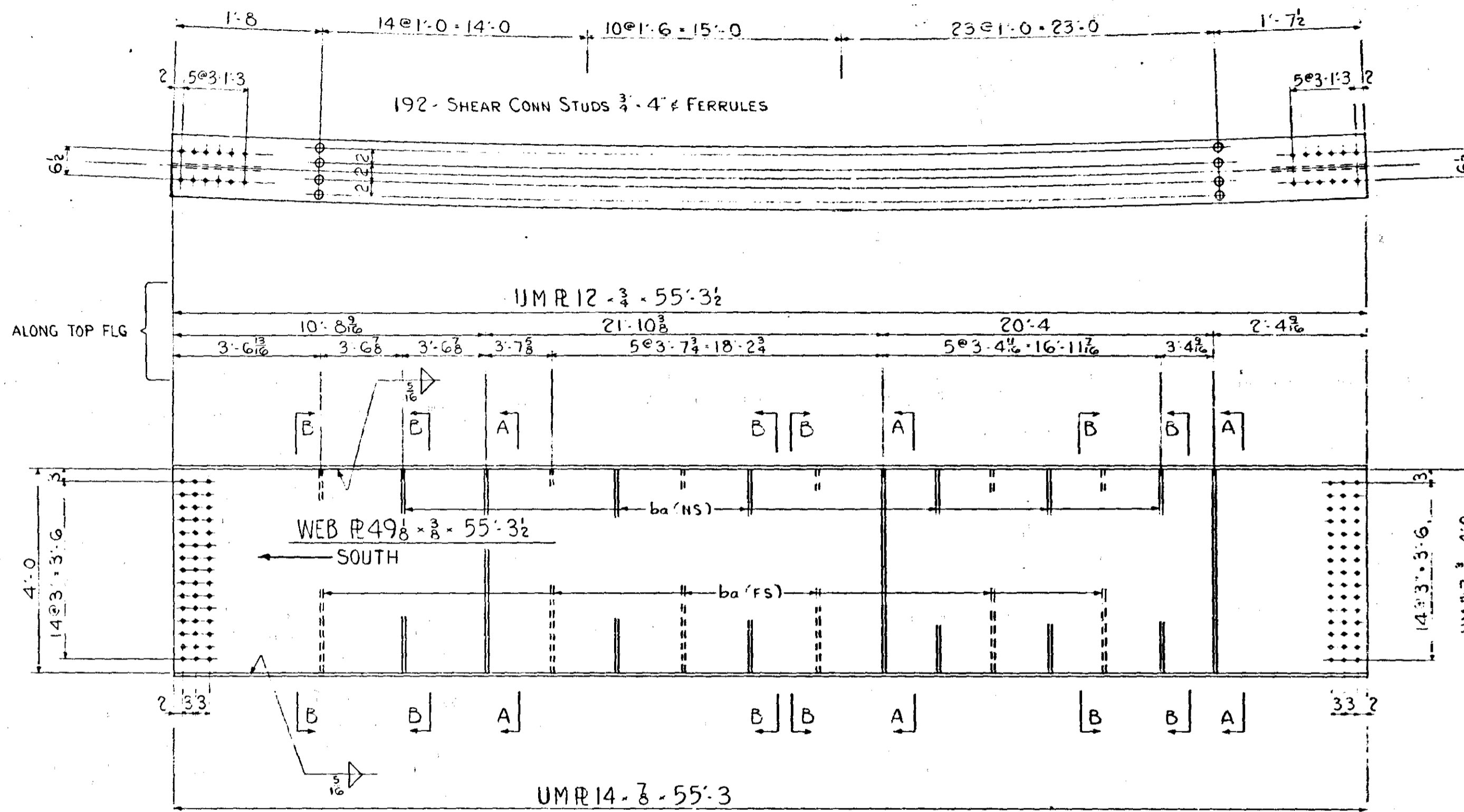
NO.	REVISION	Made by	Date

MINN. PROJ. N° I-IG 35W-3(58)112
 S.P. N° 2783-9340B (T.H. 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

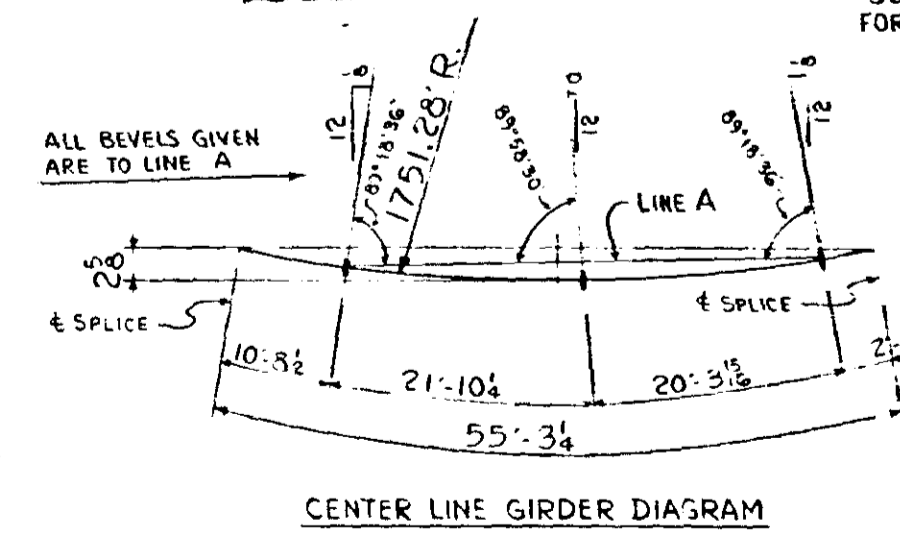
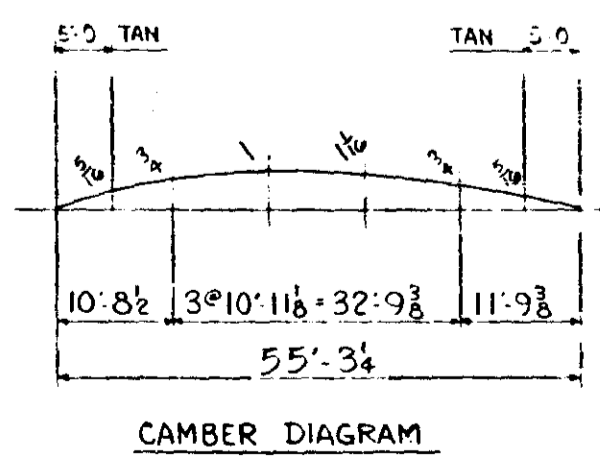
GIRDER DETAIL

Structure M.H.D. BRIDGE N° 9340
 Location MPLS., MINN.
 Contractor INDUSTRIAL CONSTR. CO.
 Made by VES Checked by RP
 Date Shop 4-20-66
 ORDER NO. 32647 DRAWING NO. 64



SHOP NOTE:
SEE DRWG #1

GEN NOTES:
SEE DRWG #1
FOR WELDING INSPECTION - SEE GEN NOTES



NO.	REVISION	Made by	Date

MICRO-FILM

MINN. PROJ N° 1-16 35W-3(58)112

SP N° 2783-9340B (T.H. 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

GIRDER DETAIL

Structure: M.H.D. BRIDGE N° 9340

Location: MPLS., MINN.

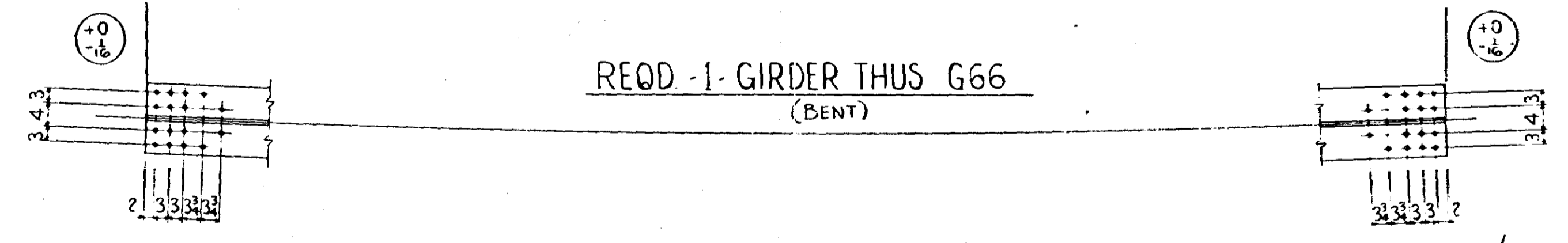
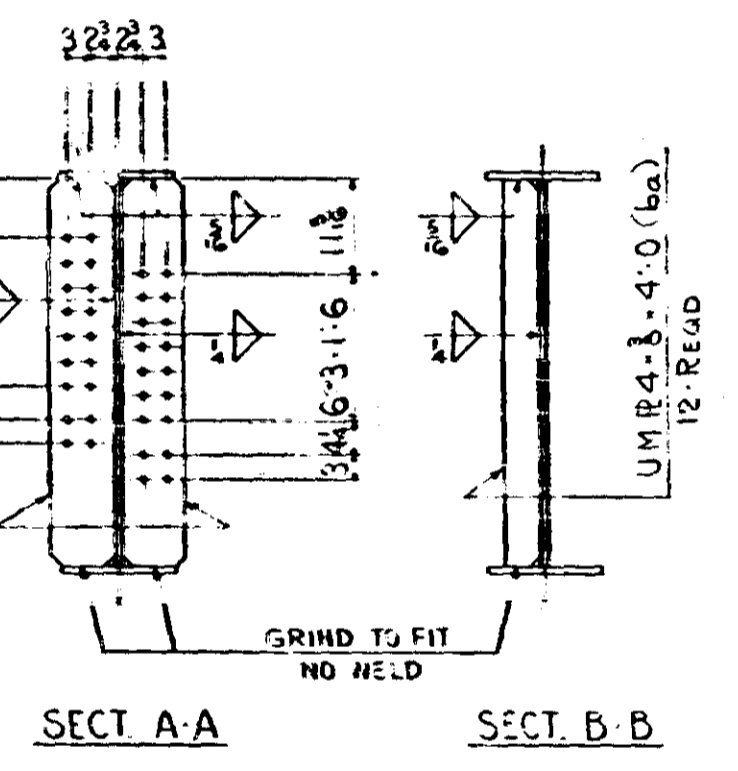
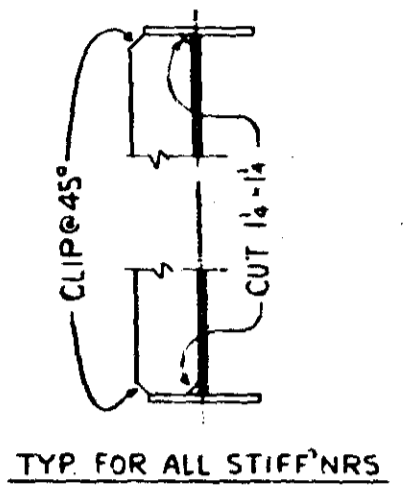
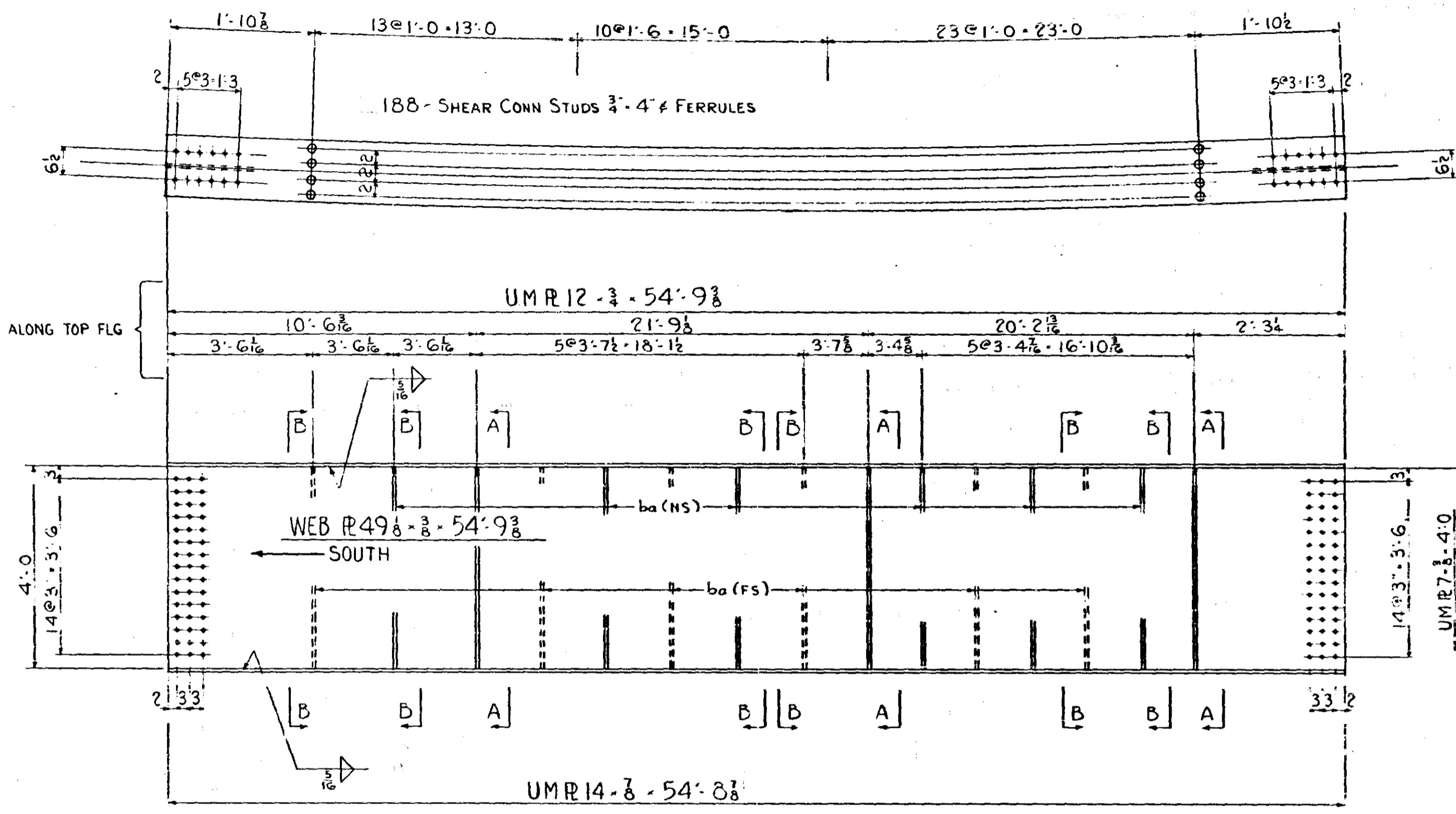
Contractor: INDUSTRIAL CONSTR. CO.

Made by: W.E.S. Checked by: R.P.

Date: 4-20-66

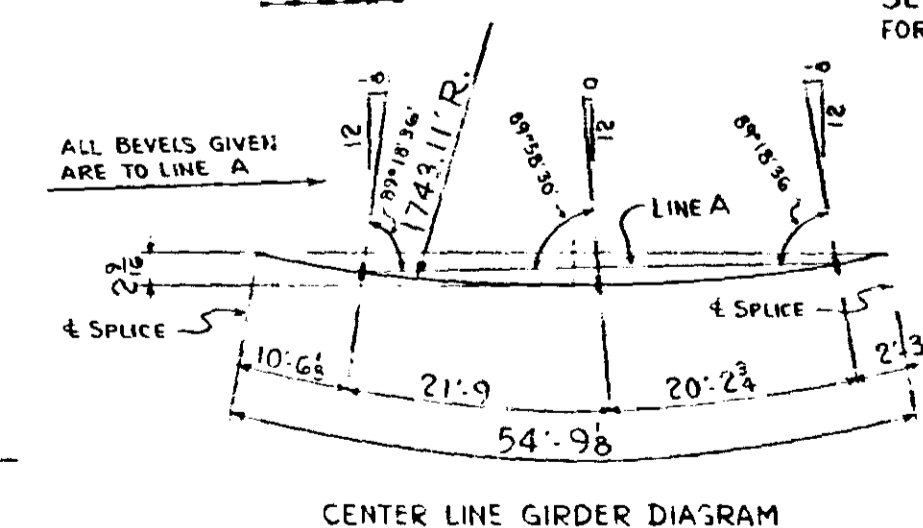
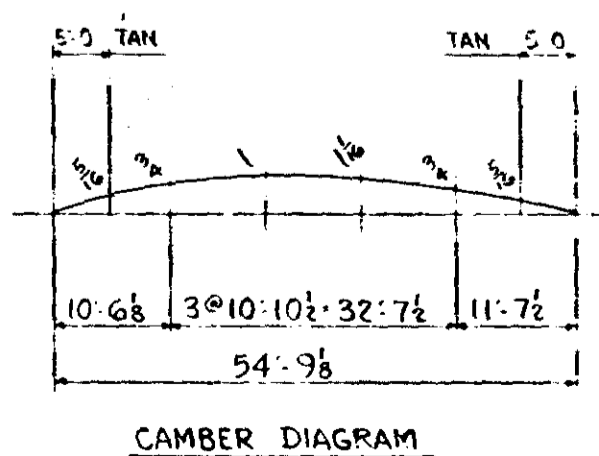
ORDER NO. 32647 DRAWING NO. 65

FORM 10-584



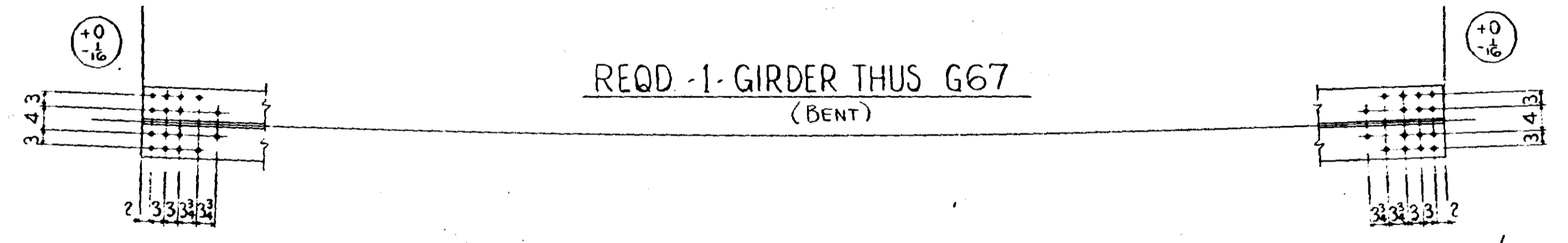
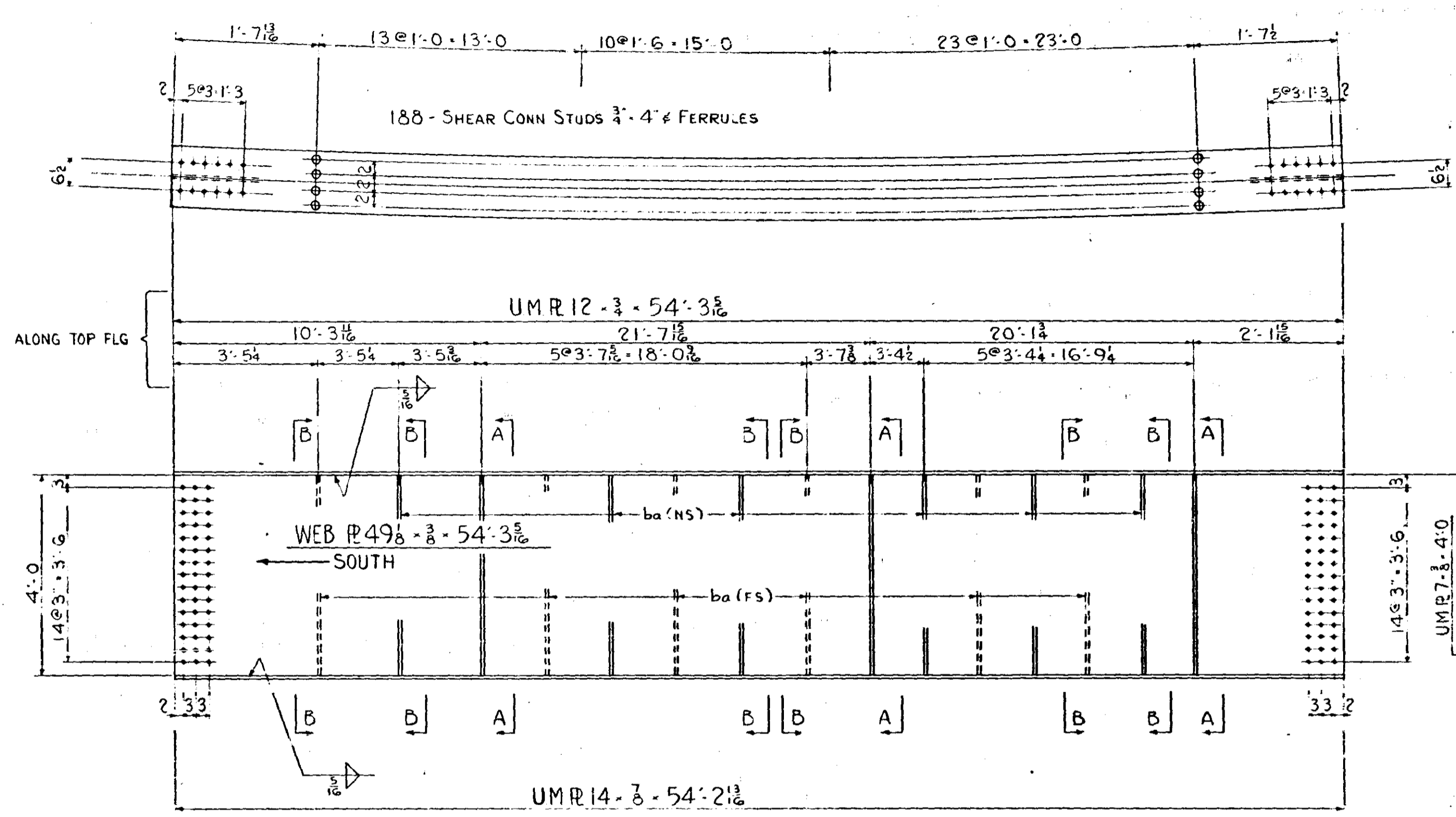
SHOP NOTE:
SEE DRWG #1

GEN NOTES:
SEE DRWG #1
FOR WELDING INSPECTION - SEE GEN. NOTES



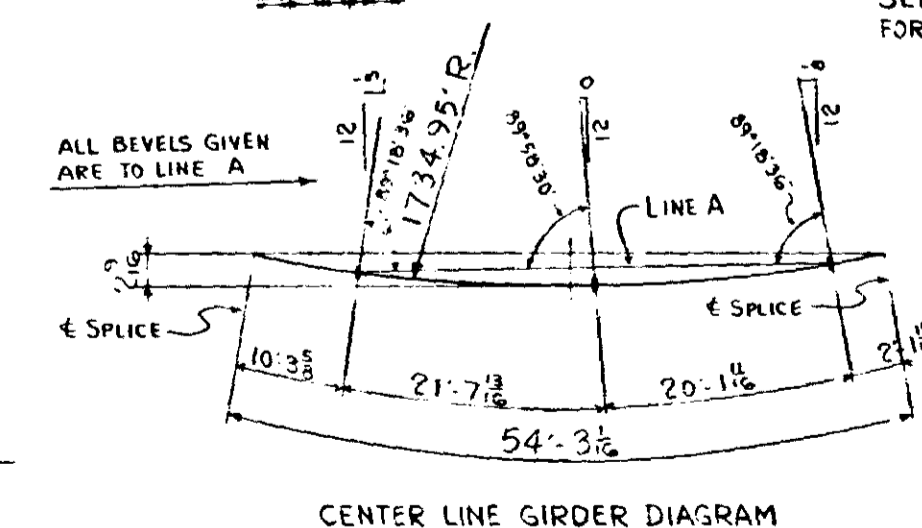
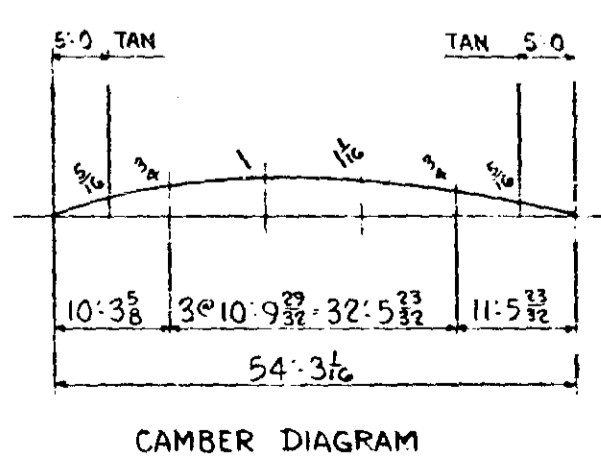
MINN. PROJ. N° I-16 35W-3(58)112	
SP N° 2783-9340B (T.H. 35W-394)	
ST. PAUL FOUNDRY & MFG. CO.	
ST. PAUL, MINN.	
GIRDER DETAIL	
Structure: M.H.D. BRIDGE N° 9340	
Location: MPLS., MINN.	
Contractor: INDUSTRIAL CONSTR. CO.	
Made by: WES	Checked by: RT
Date: 4-20-66	Shop: 4-20-66
ORDER NO. 32647	DRAWING NO. 66
NO.	REVISION

NO.	REVISION	Made by	Date



SHOP NOTE:
SEE DRWG #1

GEN NOTES:
SEE DRWG #1
FOR WELDING INSPECTION - SEE GEN. NOTES



NO.	REVISION	Made by	Date

MINN. PROJ. N° 1-IG 35W-3(58)112

S.P. N° 2783-9340B (T.H. 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

GIRDER DETAIL

Structure: M.H.D. BRIDGE N° 9340

Location: MPLS., MINN.

Contractor: INDUSTRIAL CONSTR. CO.

Made by: WES

Checked by: KP

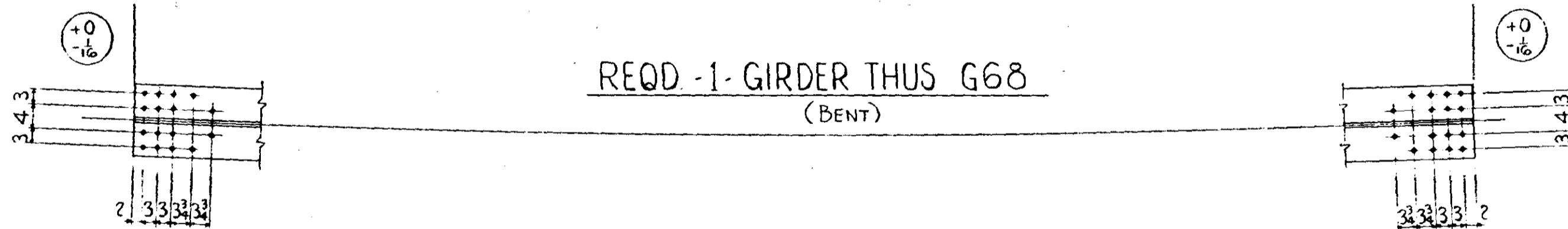
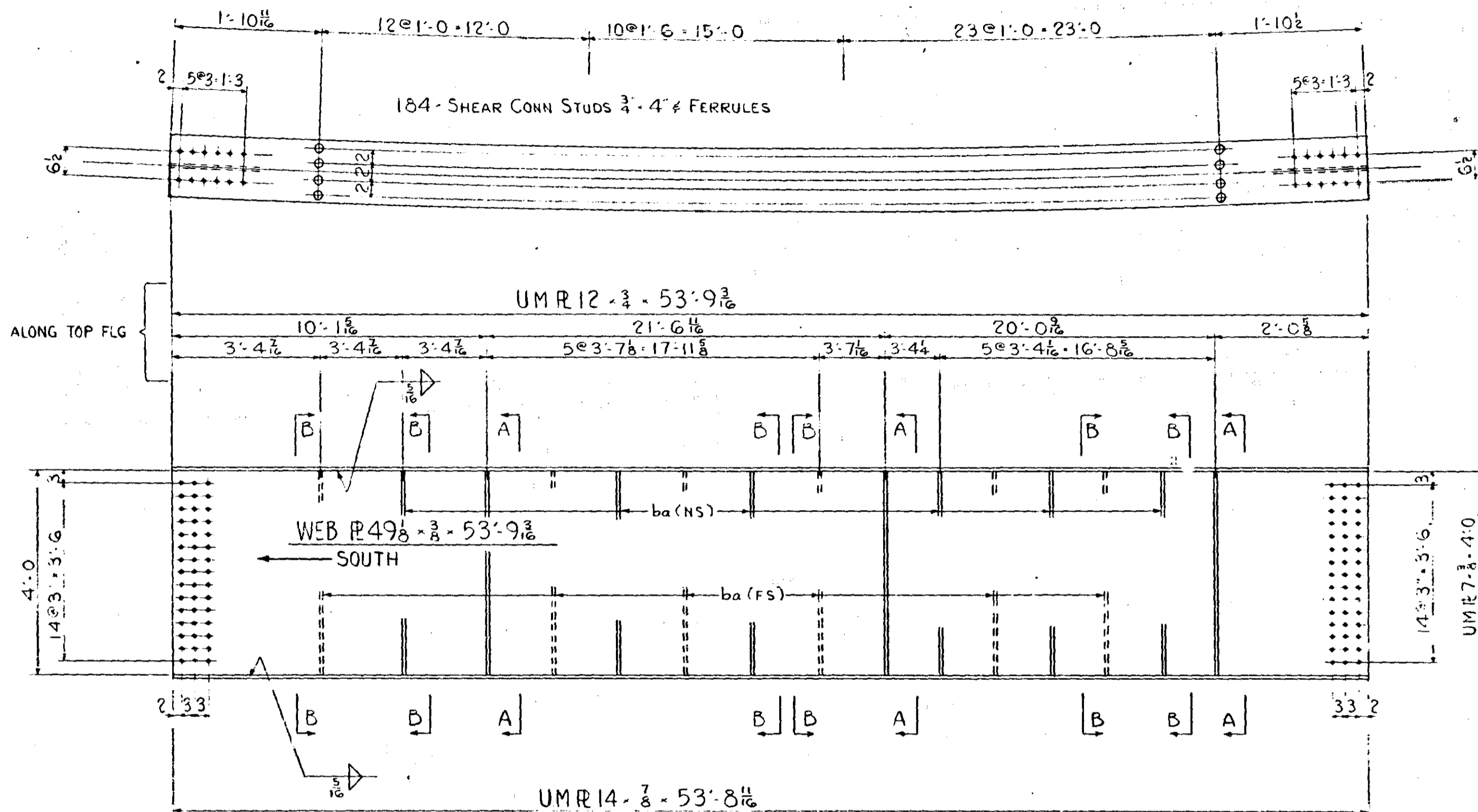
Date: 4-20-66

Shop: 67

ORDER NO. 32647

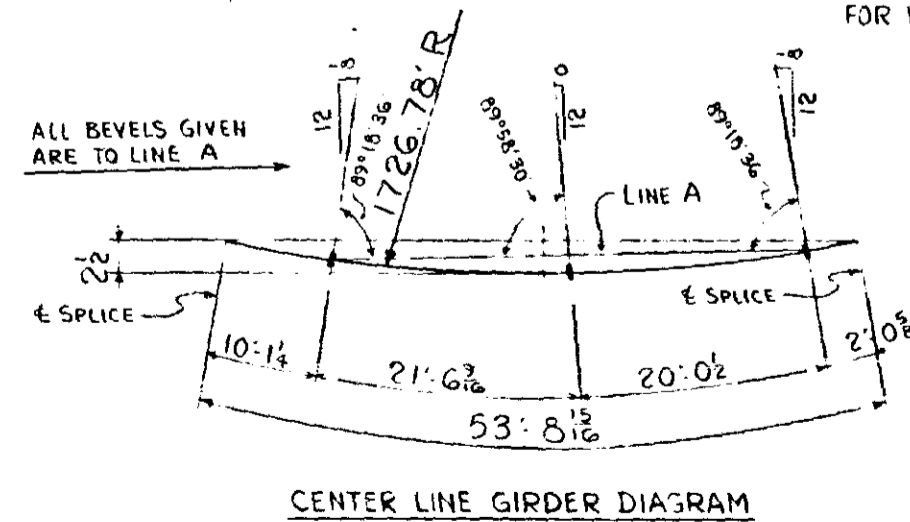
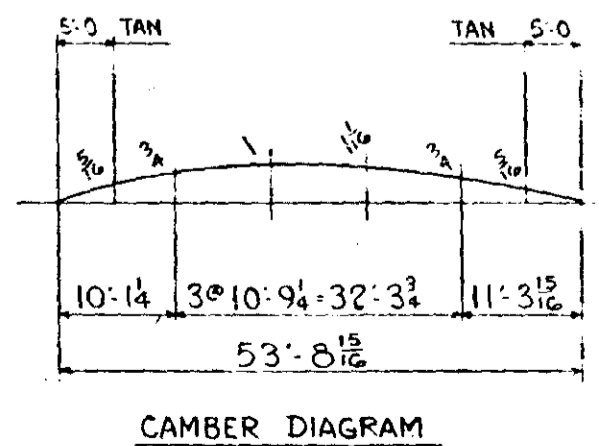
DRAWING NO. 67

FORM 15-501



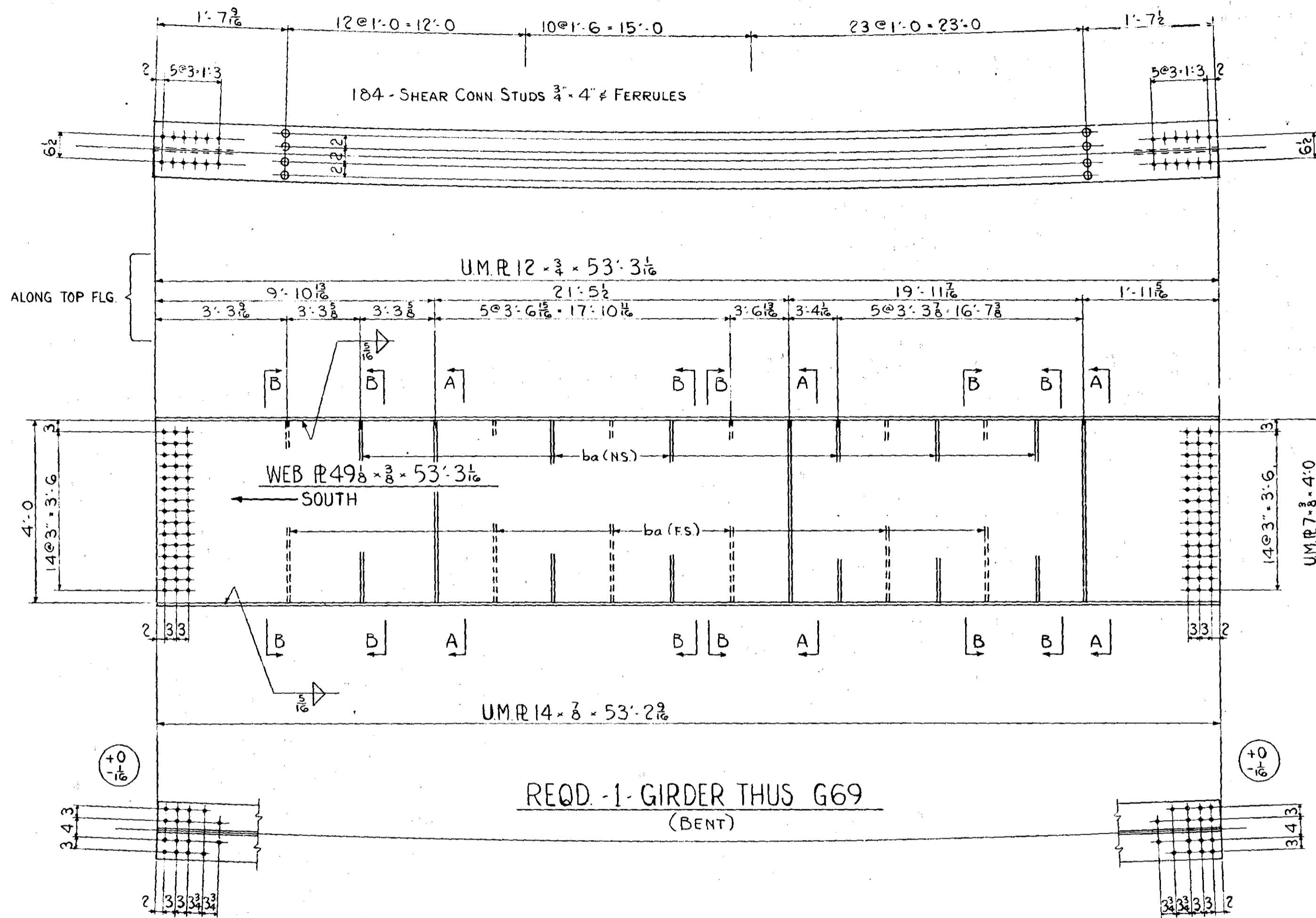
SHOP NOTE:
SEE DRWG #1

GEN NOTES:
SEE DRWG #1
FOR WELDING INSPECTION - SEE GEN. NOTES



MINN. PROJ. N ^o 1-1G 35W-3(58)112			
SP. N ^o 2783-9340B (T.H. 35W-394)			
ST. PAUL FOUNDRY & MFG. CO.			
ST. PAUL, MINN.			
GIRDER DETAIL			
Structure	M.H.D. BRIDGE N ^o 9340		
Location	MPLS., MINN.		
Contractor	INDUSTRIAL CONSTR. CO.		
Made by	WES		
Checked by	RP		
Date	Shop 4-20-66		
ORDER NO.	32647		
DRAWING NO.	68		
NO.	REVISION	Made by	Date

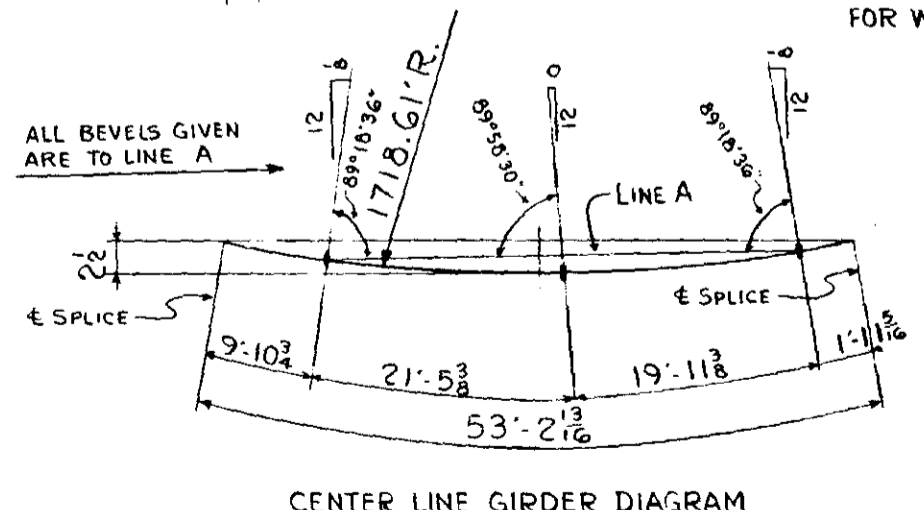
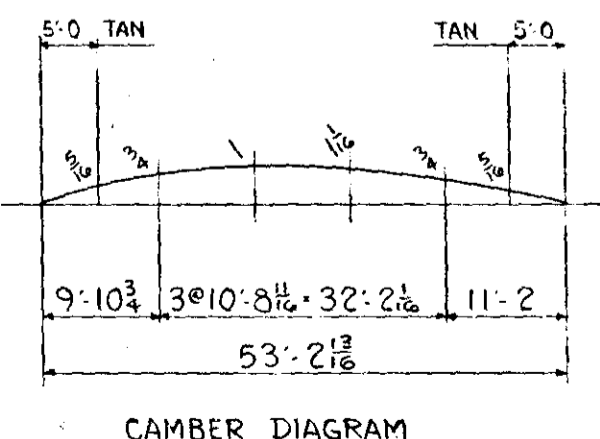
NO.	REVISION	Made by	Date
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SHOP NOTE:
SEE DRWG #1

GEN. NOTES:
SEE DRWG #1
FOR WELDING INSPECTION - SEE GEN. NOTES

MICRO-FILMED



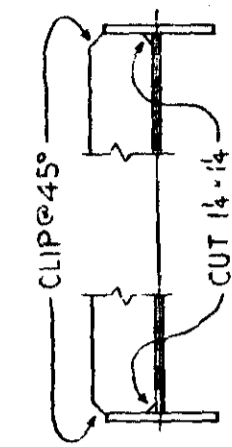
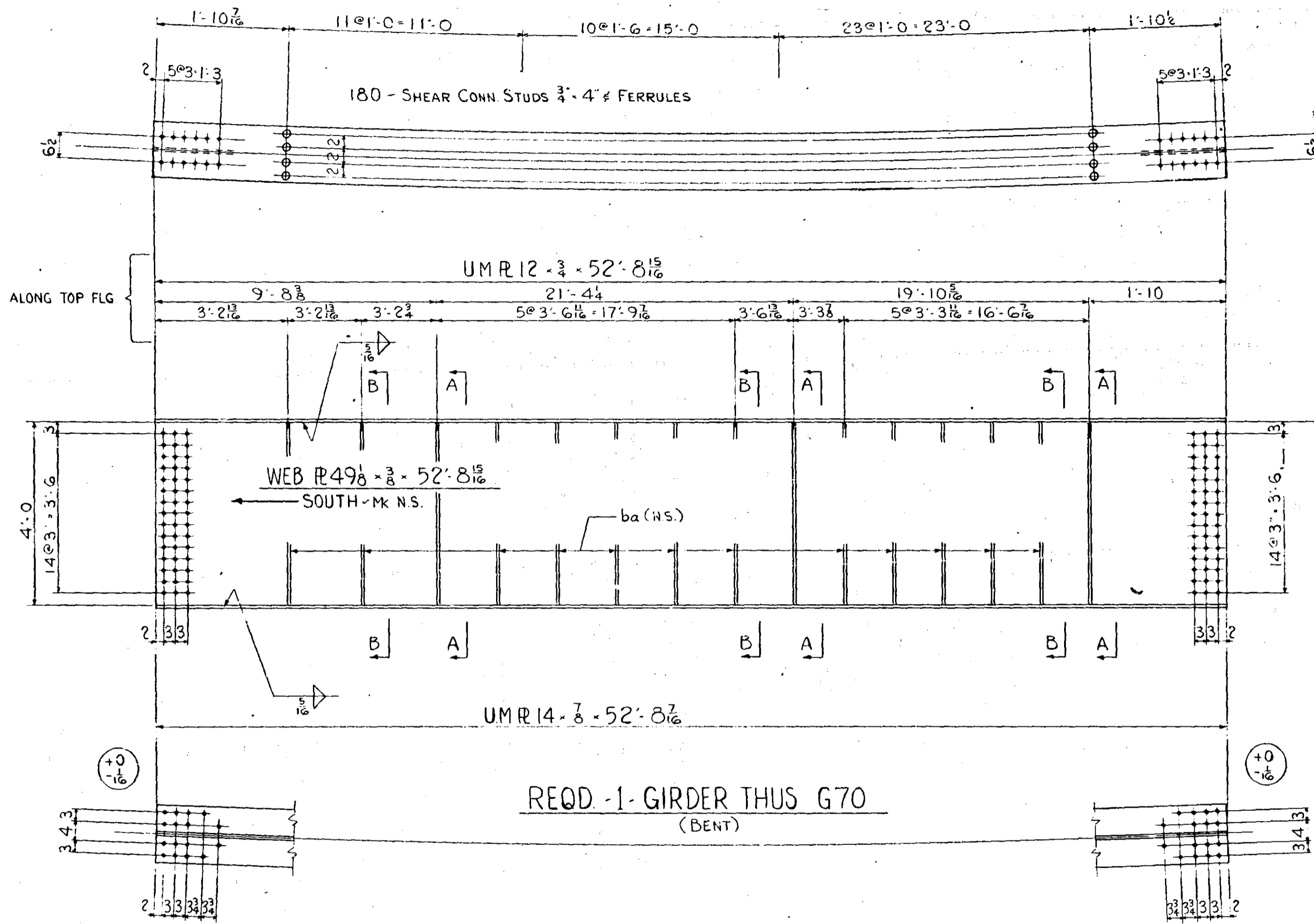
NO.	REVISION	Made by	Date

MINN. PROJ. N^o 1-16 35W-3(58)112
 S.P. N^o 2783-9340B (T.H. 35W-394)

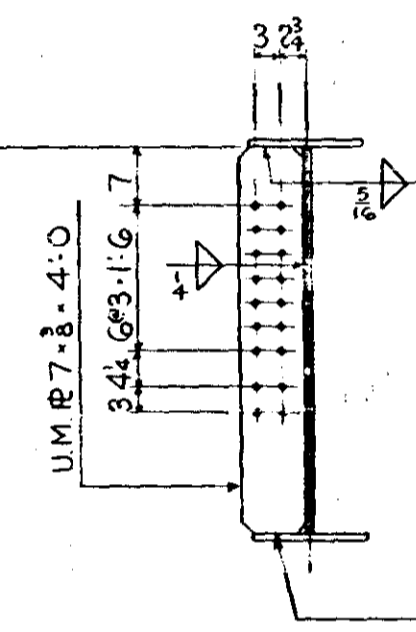
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

GIRDER DETAIL

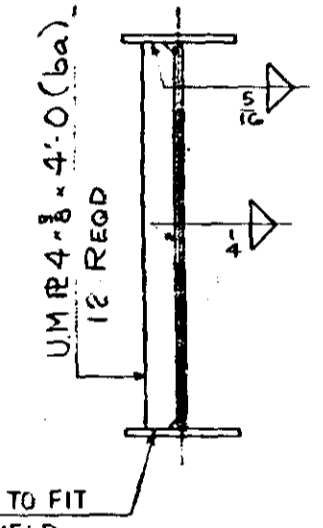
Structure M.H.D. BRIDGE N^o 9340
 Location MPLS., MINN.
 Contractor INDUSTRIAL CONSTR. CO.
 Made by WES Checked by RP
 Date 4-20-66 Shop 4-20-66
 ORDER NO. 32647 DRAWING NO. 69



TYP FOR ALL STIFF'NRS



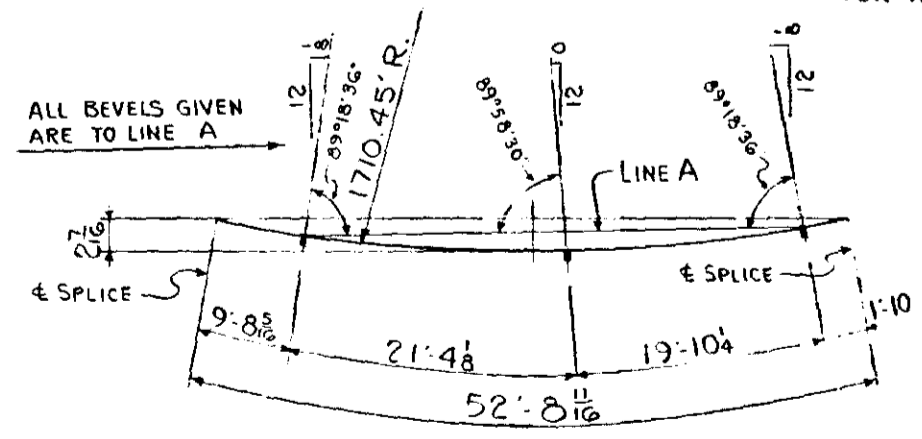
SECTION A-A



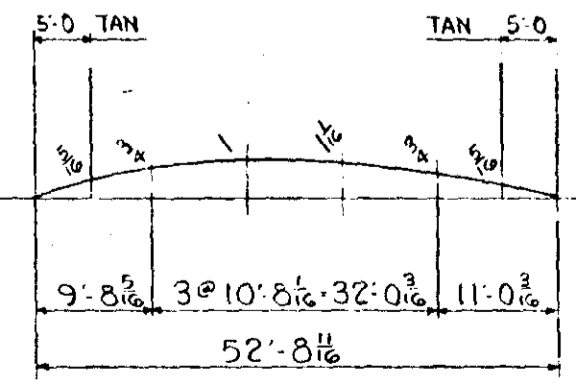
SECTION B-B

SHOP NOTE:
SEE DRWG #1

GEN. NOTES:
SEE DRWG #1
FOR WELDING INSPECTION - SEE GEN. NOTES



CENTER LINE GIRDER DIAGRAM

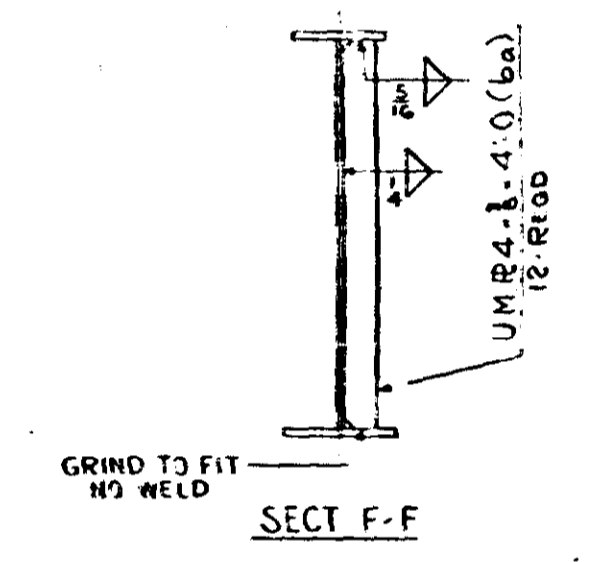
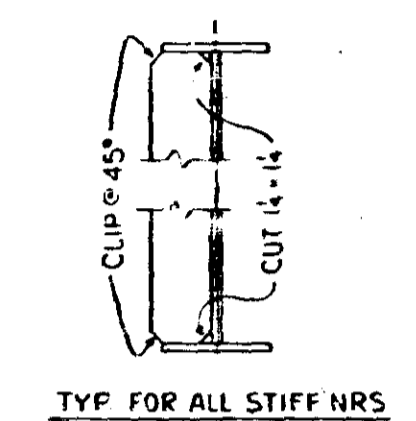
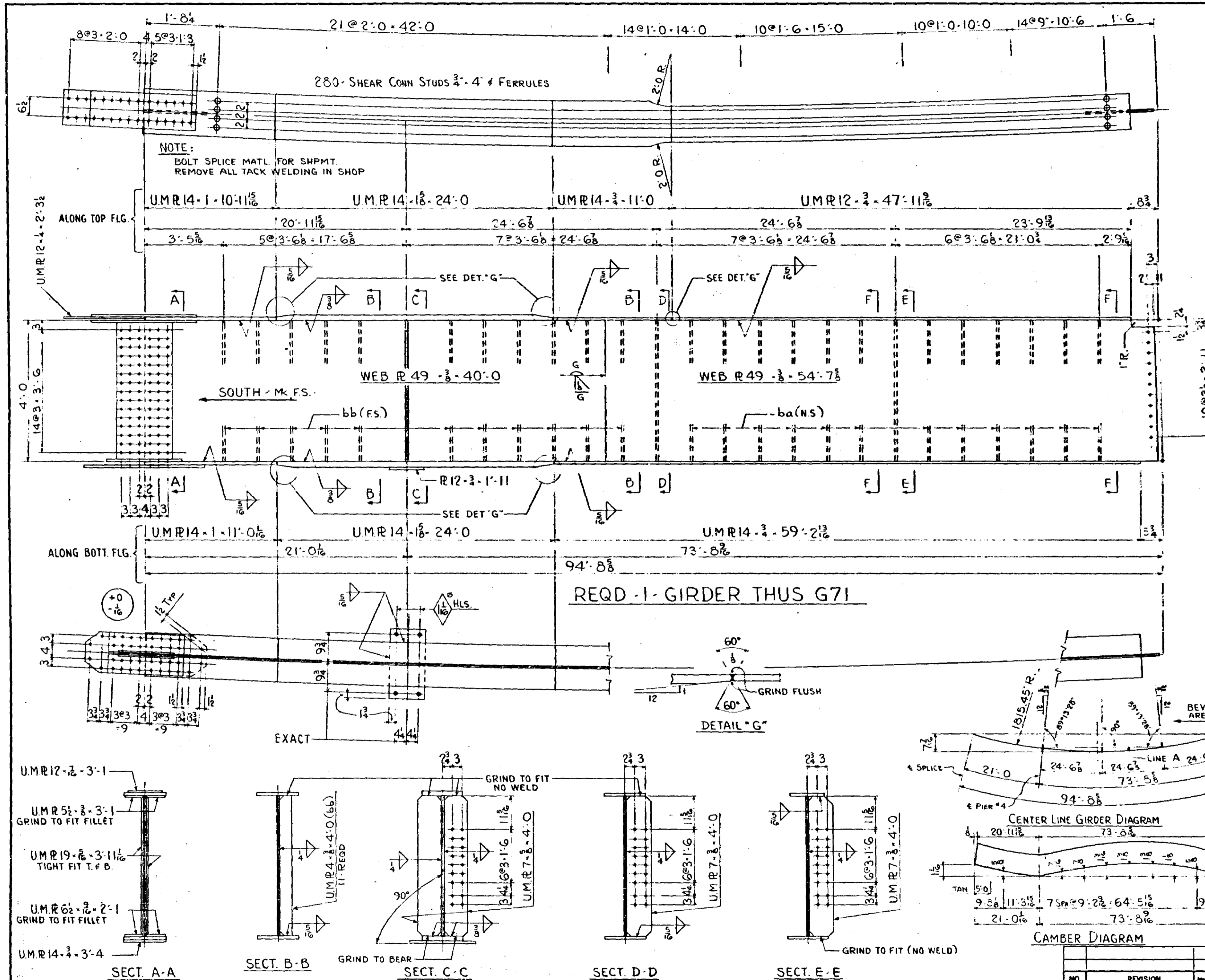


CAMBER DIAGRAM

VICARIO FILMED

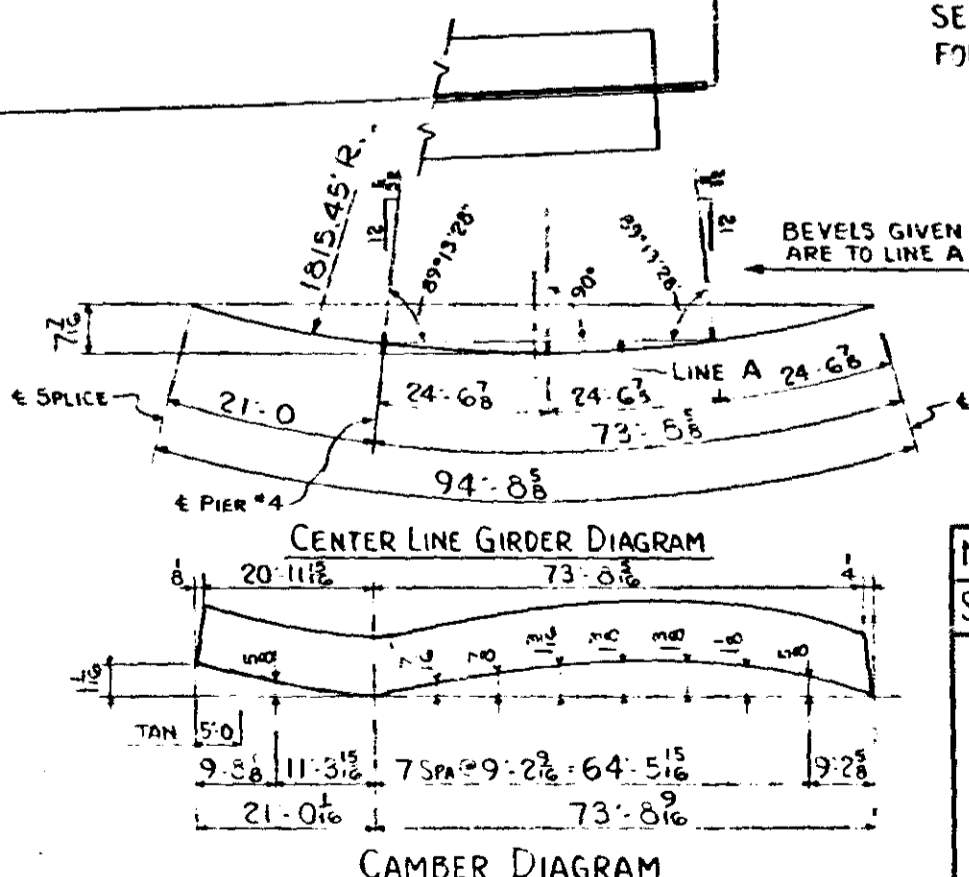
MINN. PROJ. N° 1-16 3SW-3(58)112	
S.P. N° 2783-9340B (T.H. 35W-394)	
ST. PAUL FOUNDRY & MFG. CO.	
ST. PAUL, MINN.	
GIRDER DETAIL	
Structure	M.H.D. BRIDGE N° 9340
Location	MPLS., MINN.
Contractor	INDUSTRIAL CONSTR. CO.
Made by	WES
Checked by	RP
Date	4-20-66
Shop	4-20-66
ORDER NO.	32647
DRAWING NO.	70
FORM 12-55	

NO.	REVISION	Made by	Date

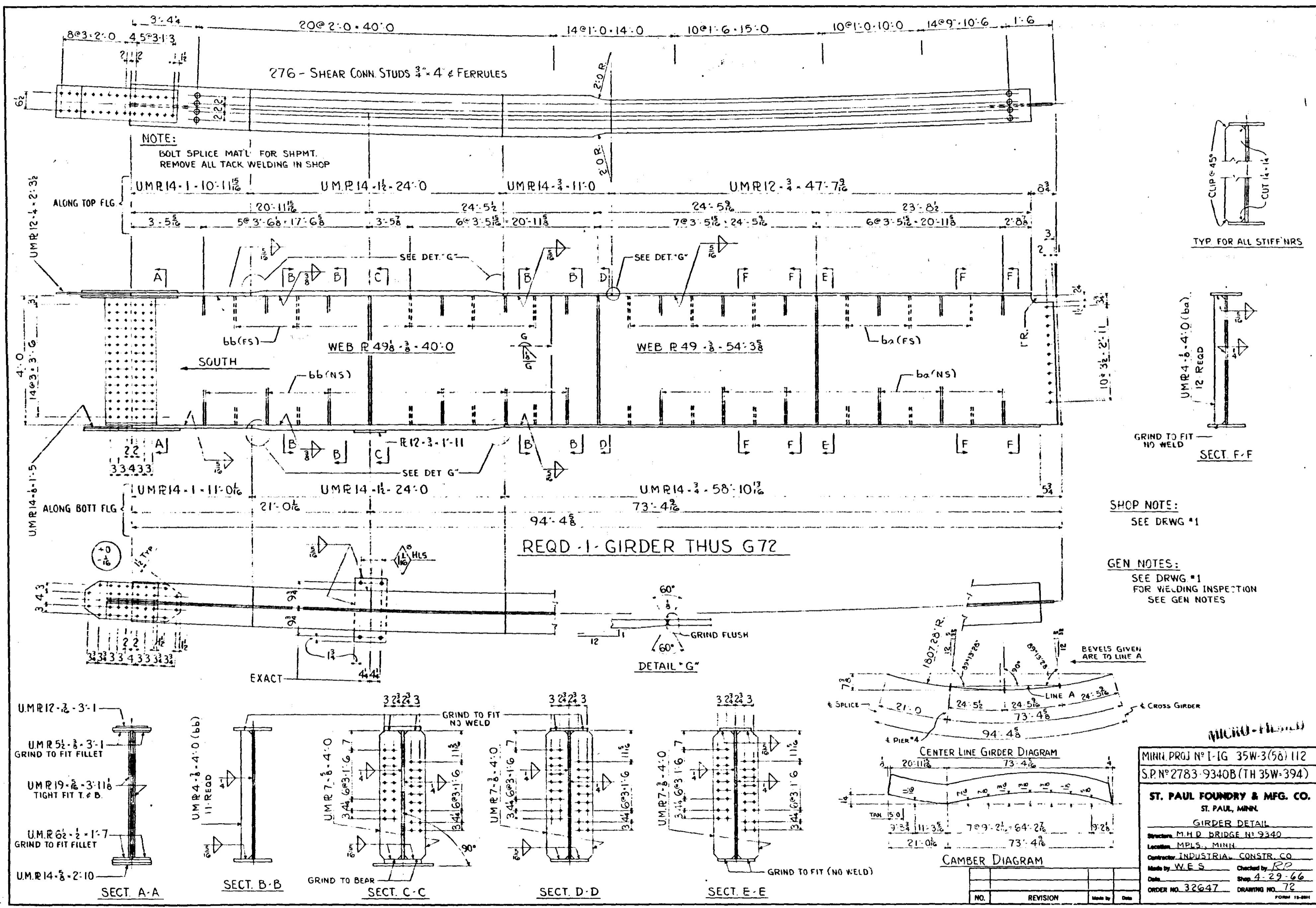


SHOP NOTE:
SEE DRWG #1

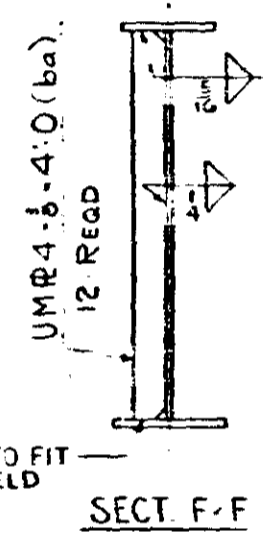
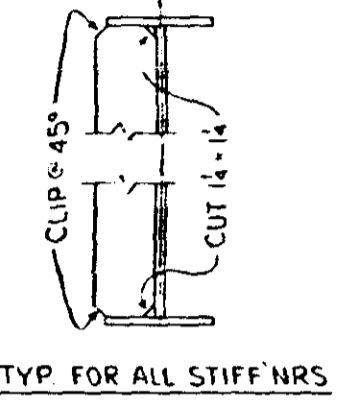
GEN NOTES:
SEE DRWG #1
FOR WELDING INSPECTION
SEE GEN. NOTES



MINN PROJ #I-IG 35W-3(58) 112	
S.P. #2783-9340B (TH 35W-394)	
ST. PAUL FOUNDRY & MFG. CO. ST. PAUL, MINN.	
GIRDER DETAIL	
Structure: M.H.D. BRIDGE # 9340	
Location: MPLS., MINN.	
Contractor: INDUSTRIA. CONSTR. CO.	
Made by: W.E.S.	Checked by: R.P.
Date: 4-29-66	Shop: 4-29-66
ORDER NO. 32647	DRAWING NO. 71
NO.	REVISION



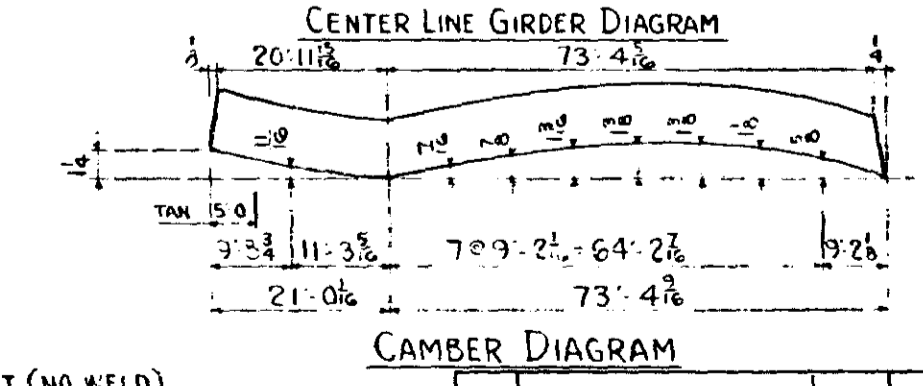
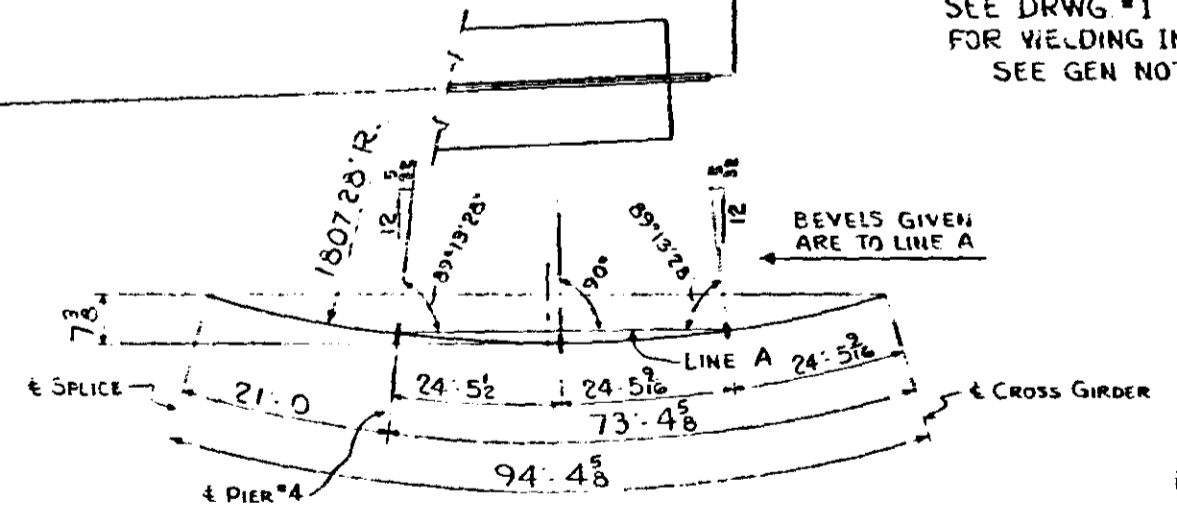
NOTE:
BOLT SPLICE MAT'L FOR SHPMT.
REMOVE ALL TACK WELDING IN SHOP



SHOP NOTE:
SEE DRWG #1

GEN NOTES:
SEE DRWG #1
FOR WELDING INSPECTION
SEE GEN NOTES

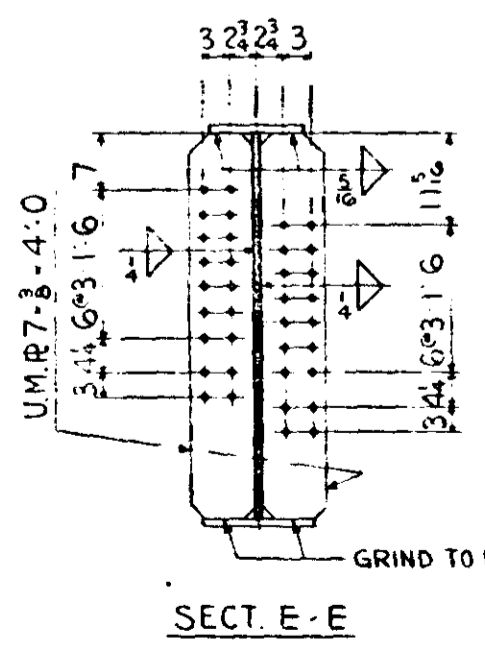
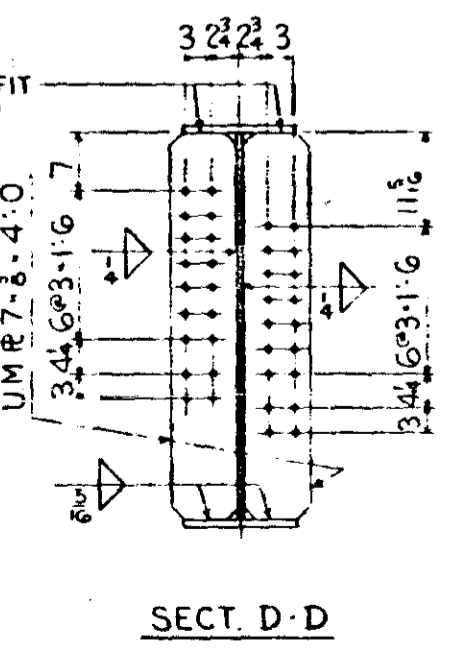
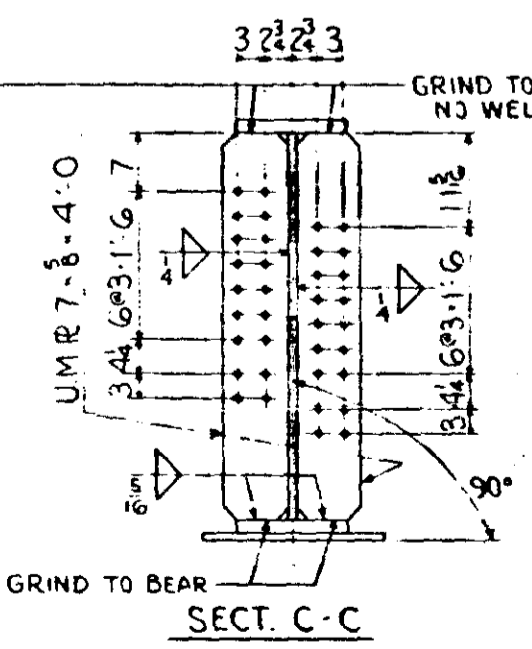
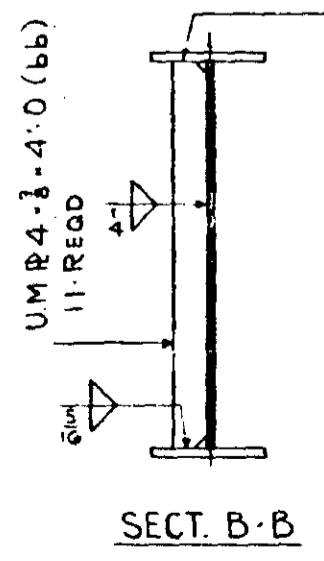
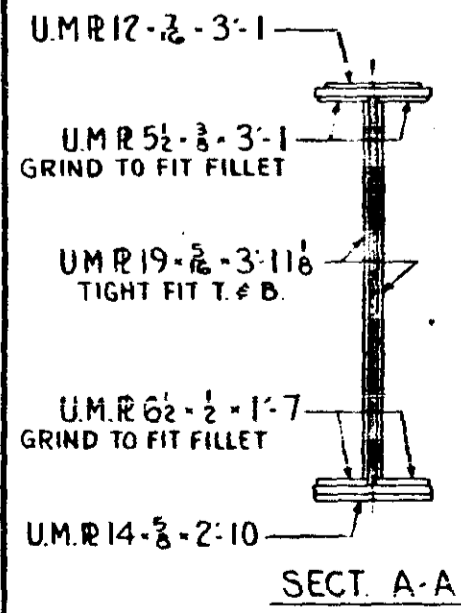
REQD - 1 - GIRDER THUS G72

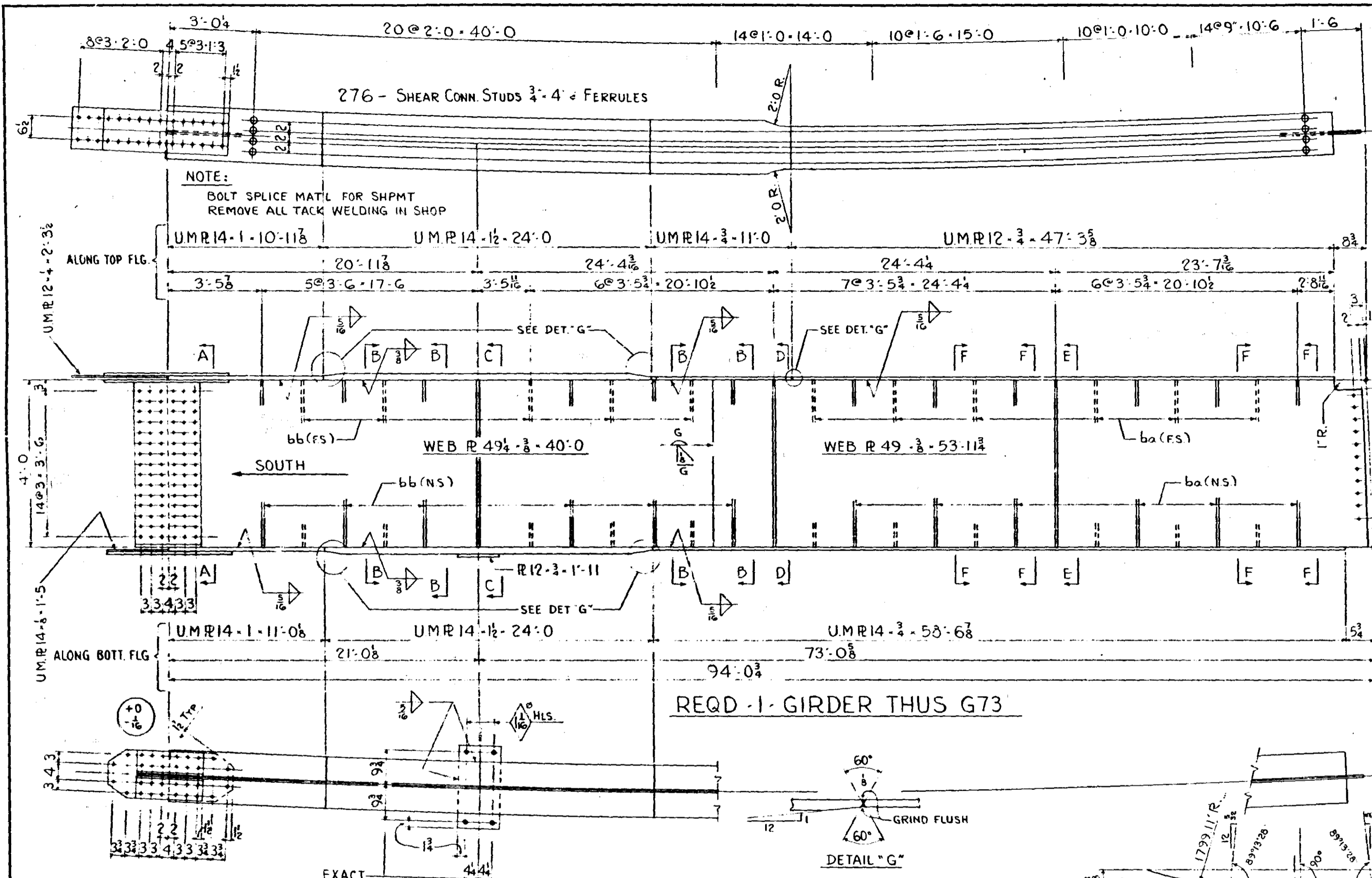


MINN. PROJ. N° I-IG 35W-3(56)112
S.P. N° 2783-9340B (TH 35W-394)

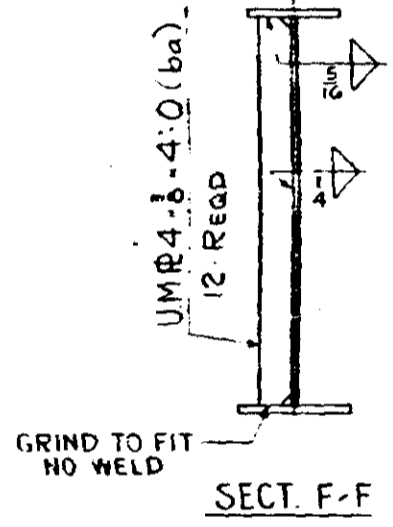
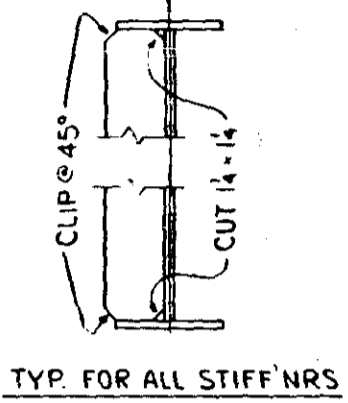
ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

GIRDER DETAIL
Structure: M.H.D. BRIDGE N° 9340
Location: MPLS., MINN.
Contractor: INDUSTRIAL CONSTR. CO.
Made by: V.E.S. Checked by: R.P.
Date: 4-29-66 Shop: 4-29-66
ORDER NO. 32647 DRAWING NO. 72





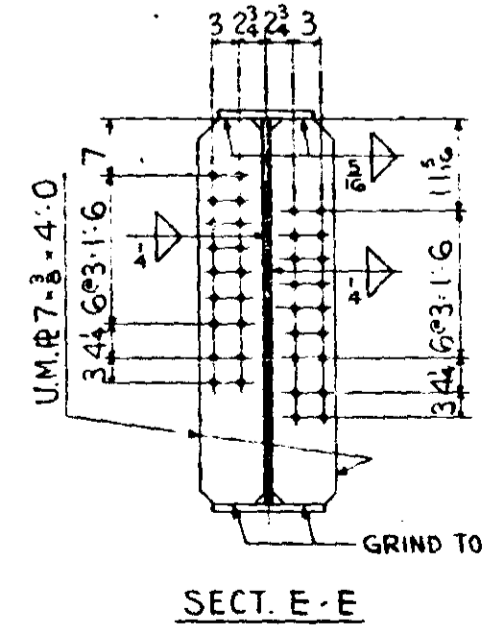
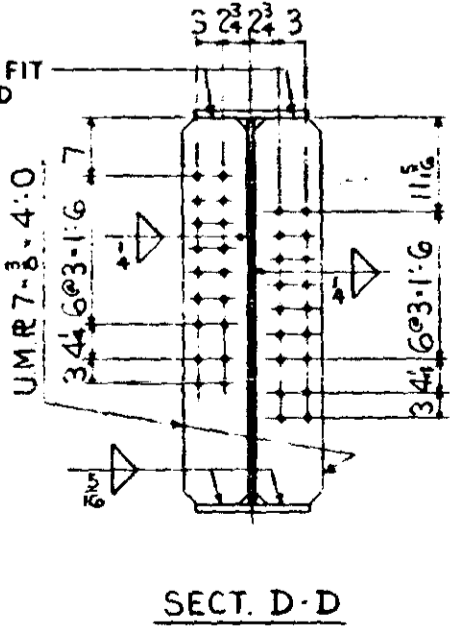
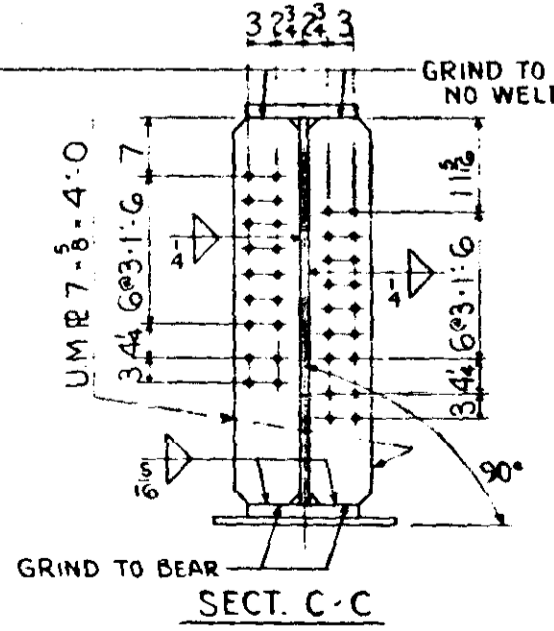
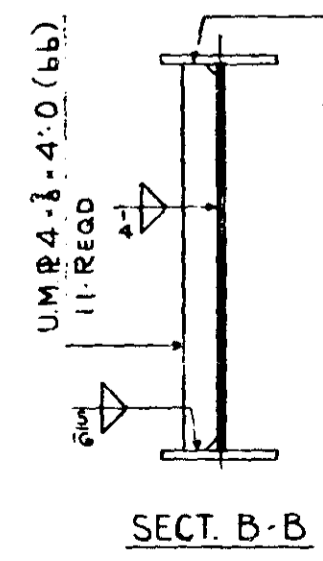
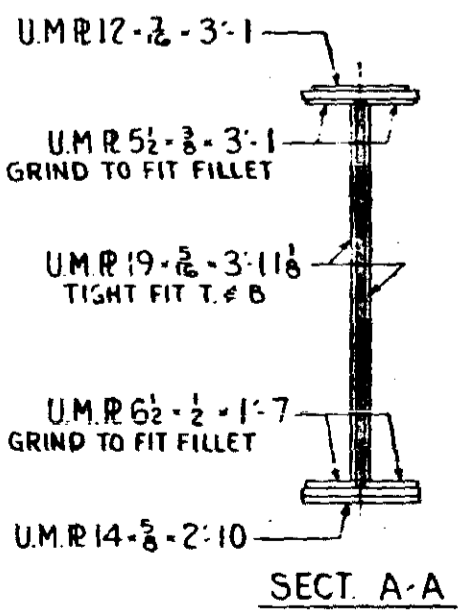
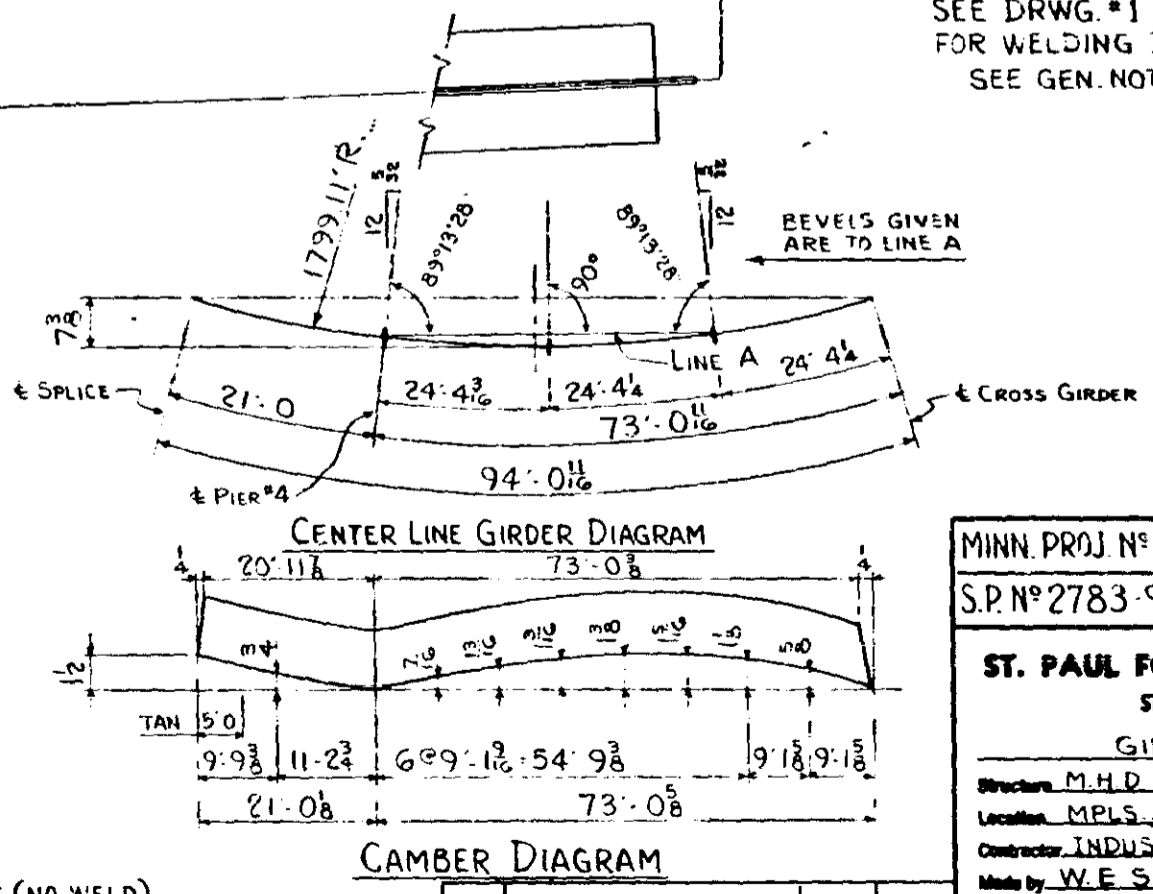
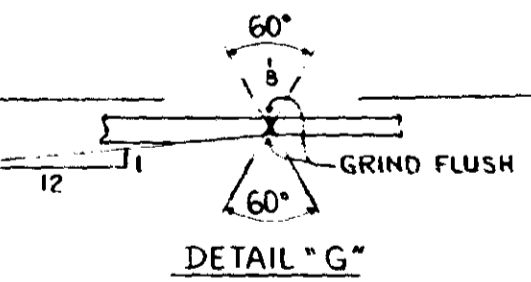
NOTE:
BOLT SPLICE MATL FOR SHPMT
REMOVE ALL TACK WELDING IN SHOP



SHOP NOTE:
SEE DRWG #1

GEN NOTES:
SEE DRWG #1
FOR WELDING INSPECTION
SEE GEN. NOTES

REQD -1- GIRDER THUS G73

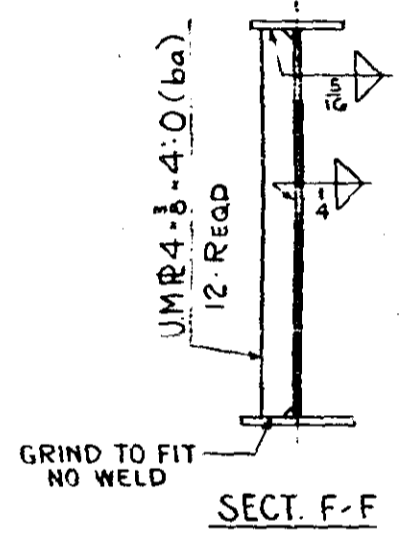
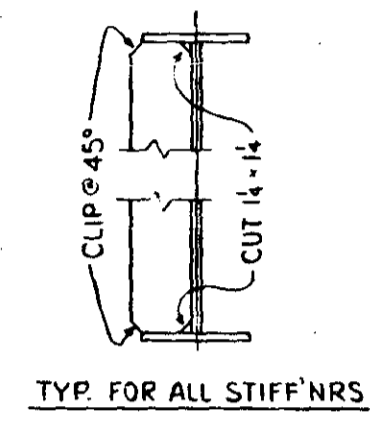
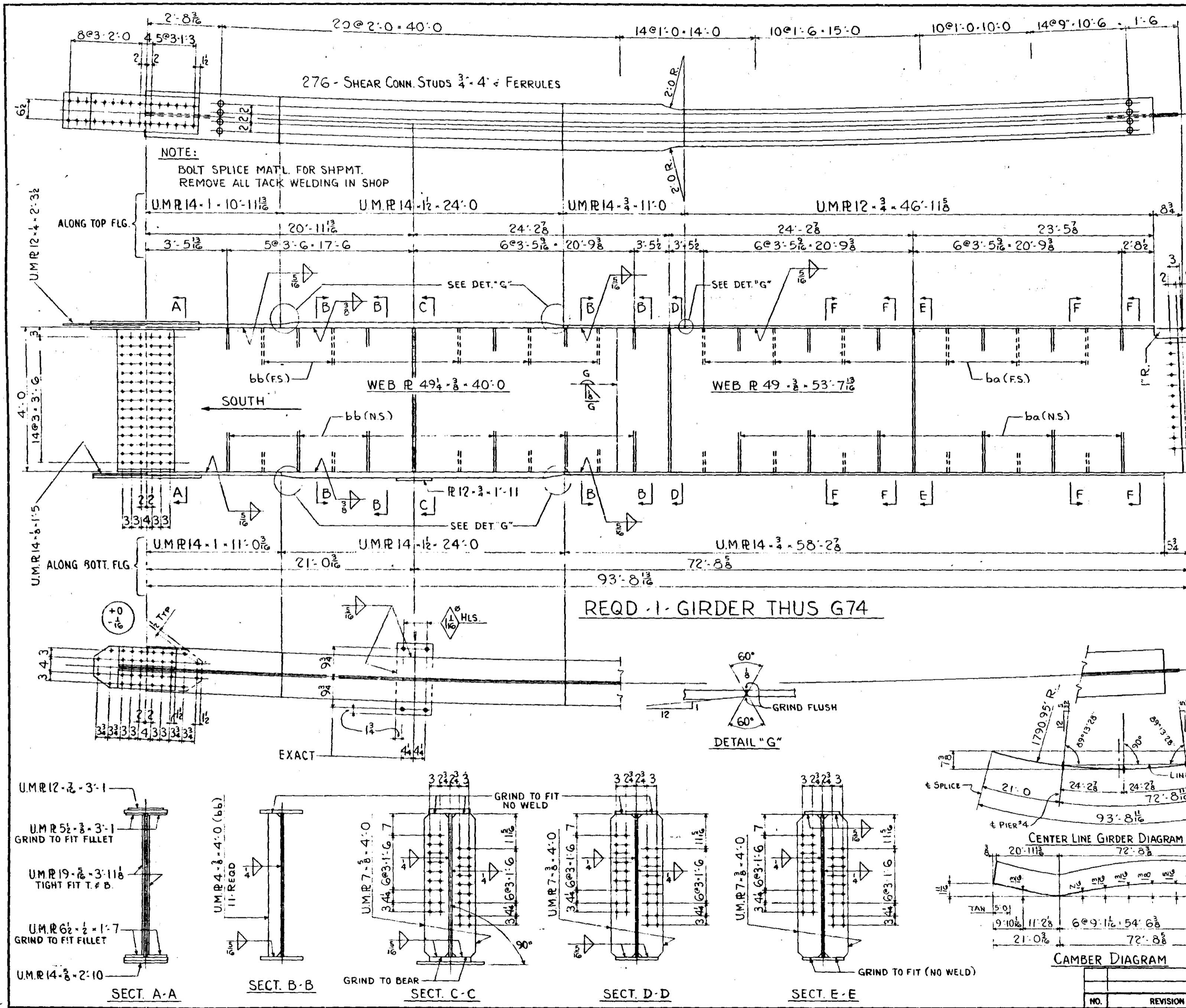


MINN. PROJ. N° I-IG 35W-3(58) 112
S.P. N° 2783-9340B (TH. 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

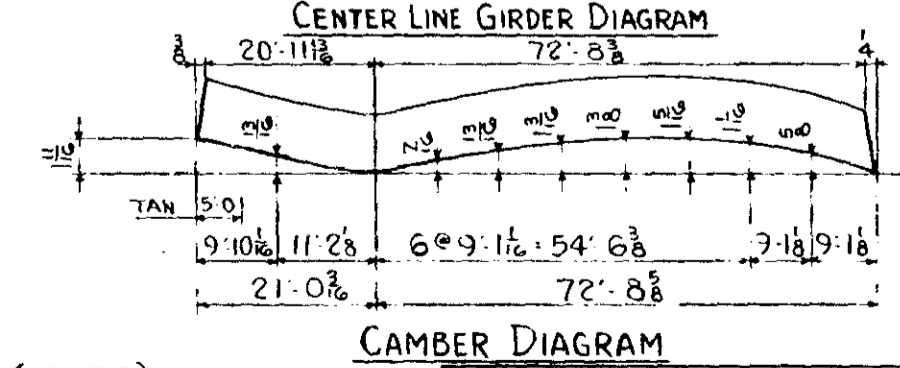
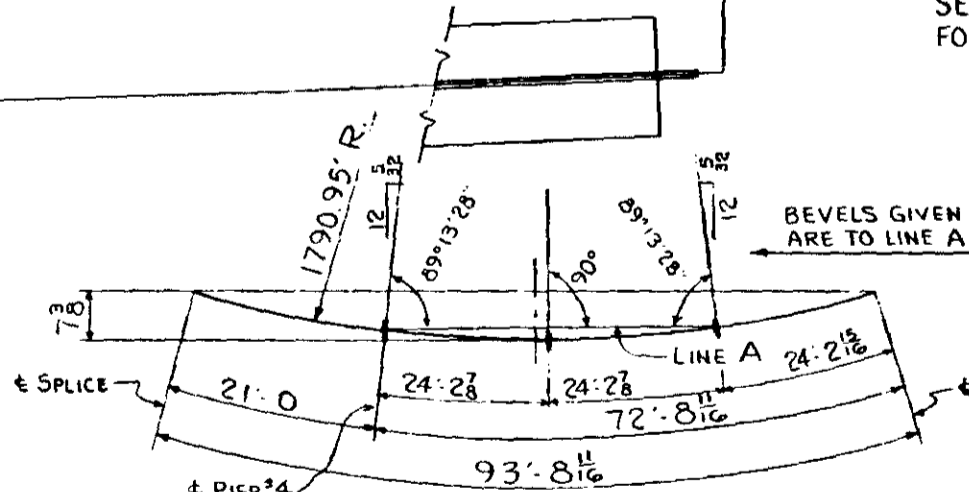
GIRDER DETAIL
Structure: M.H.D. BRIDGE N° 9340
Location: MPLS., MINN.
Contractor: INDUSTRIAL CONSTR. CO.
Made by: W.E.S. Checked by: R.P.
Date: Shop 4-29-66
ORDER NO. 32647 DRAWING NO. 73

NO.	REVISION	Made by	Date

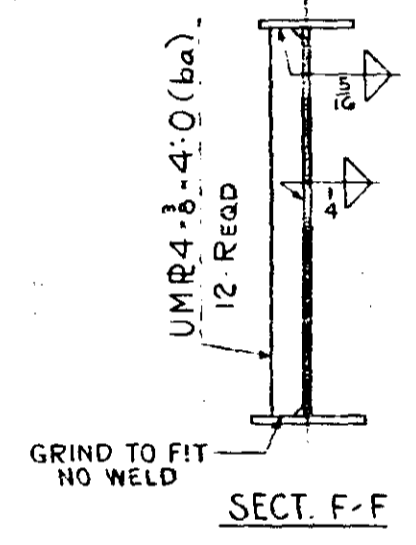
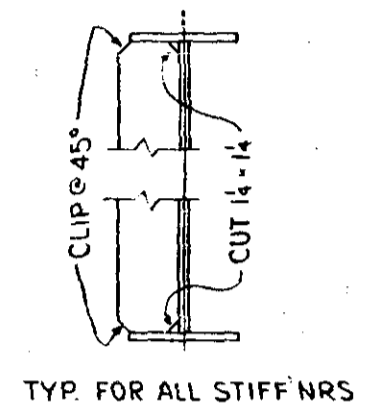
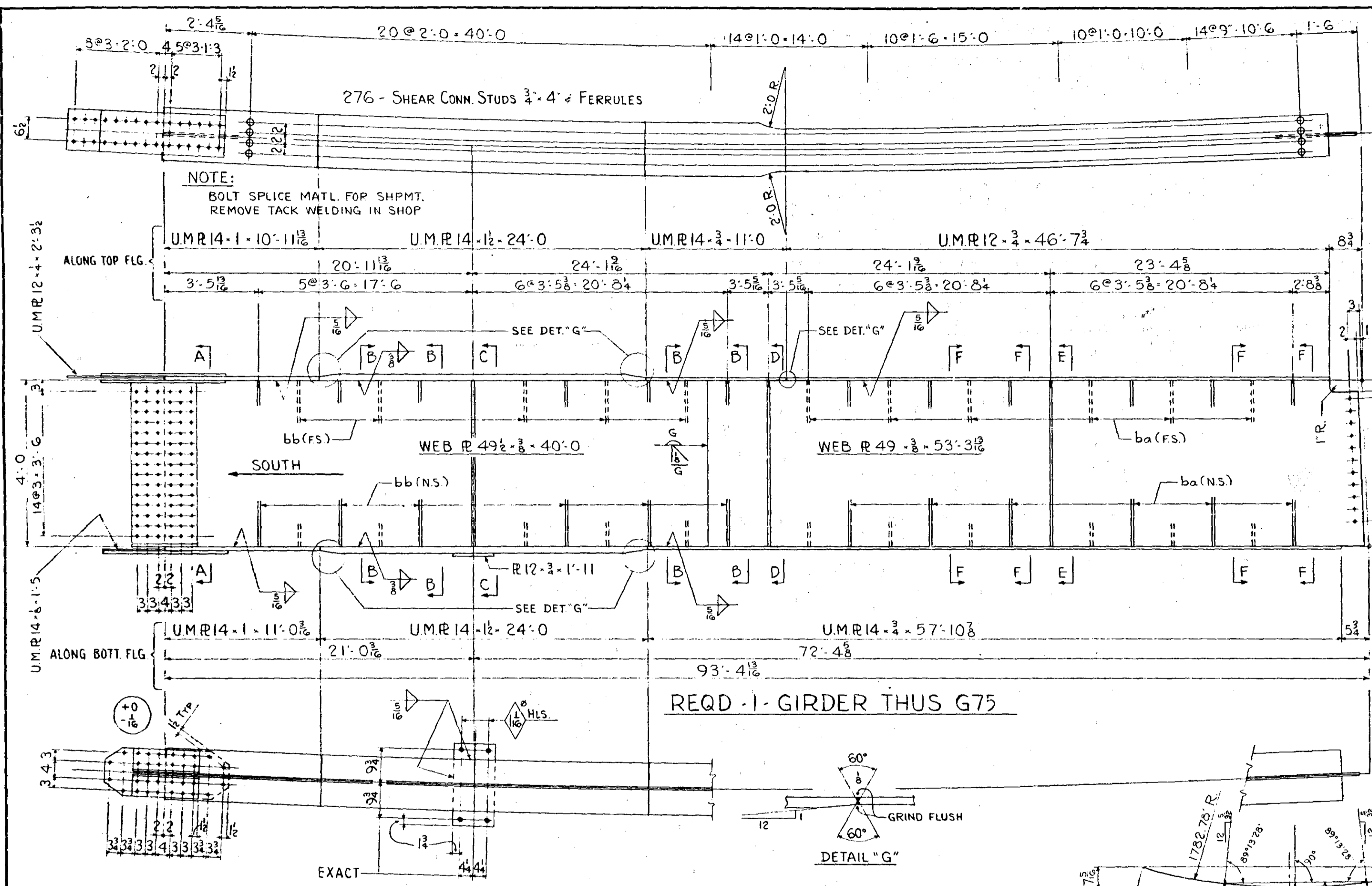


SHOP NOTE:
SEE DRWG. #1

GEN NOTES:
SEE DRWG. #1
FOR WELDING INSPECTION
SEE GEN. NOTES

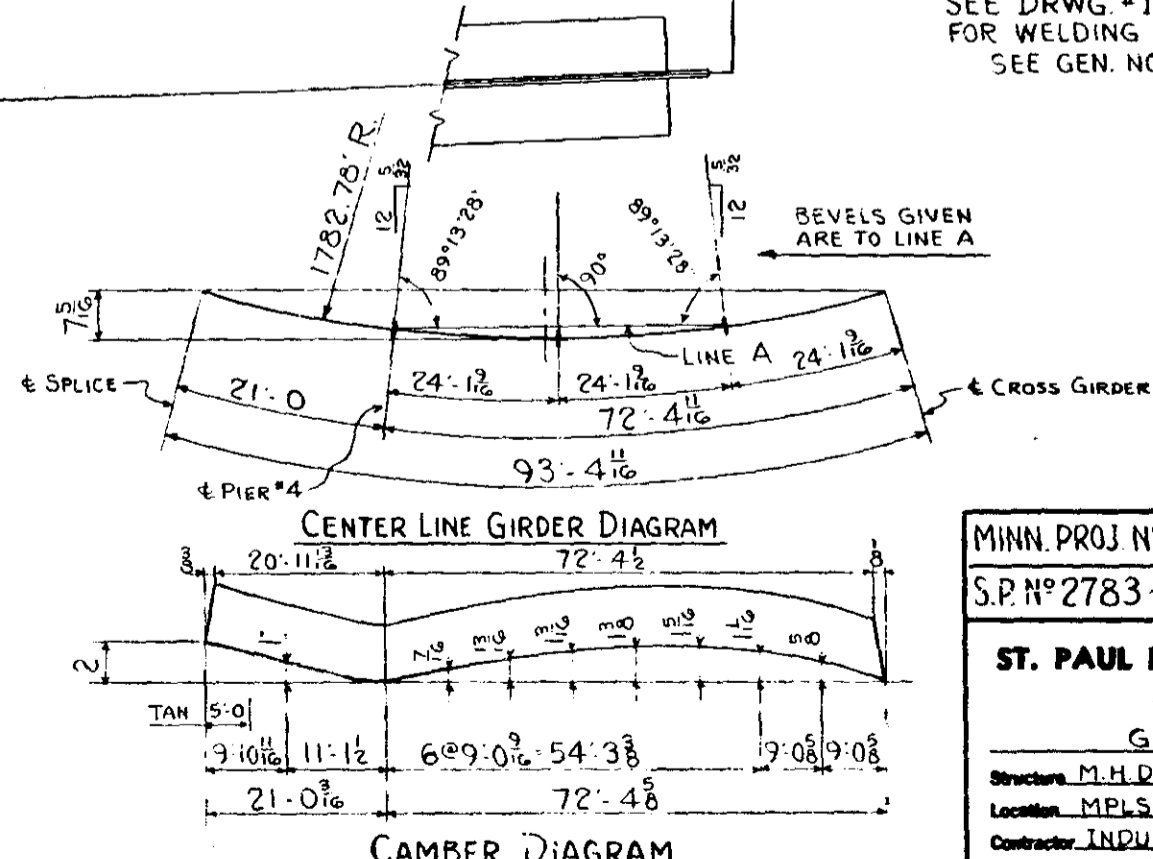


MINN. PROJ. N° I-IG 35W-3(58) 112	
S.P. N° 2783-9340B (TH. 35W-394)	
ST. PAUL FOUNDRY & MFG. CO. ST. PAUL, MINN.	
GIRDER DETAIL	
Structure: M.H.D. BRIDGE N° 9340	
Location: MPLS., MINN.	
Contractor: INDUSTRIAL CONSTR. CO.	
Made by: W.E.S.	Checked by: RP
Date: 4-29-66	Shop: 4-29-66
ORDER NO. 32647	DRAWING NO. 74
NO.	REVISION
Made by	Date



SHOP NOTE:
SEE DRWG. #1

GEN NOTES:
SEE DRWG. #1
FOR WELDING INSPECTION
SEE GEN. NOTES



MINN. PROJ. NO. I-1G 35W-3(58) 112
S.P. NO. 2783-9340B (T.H. 35W-394)

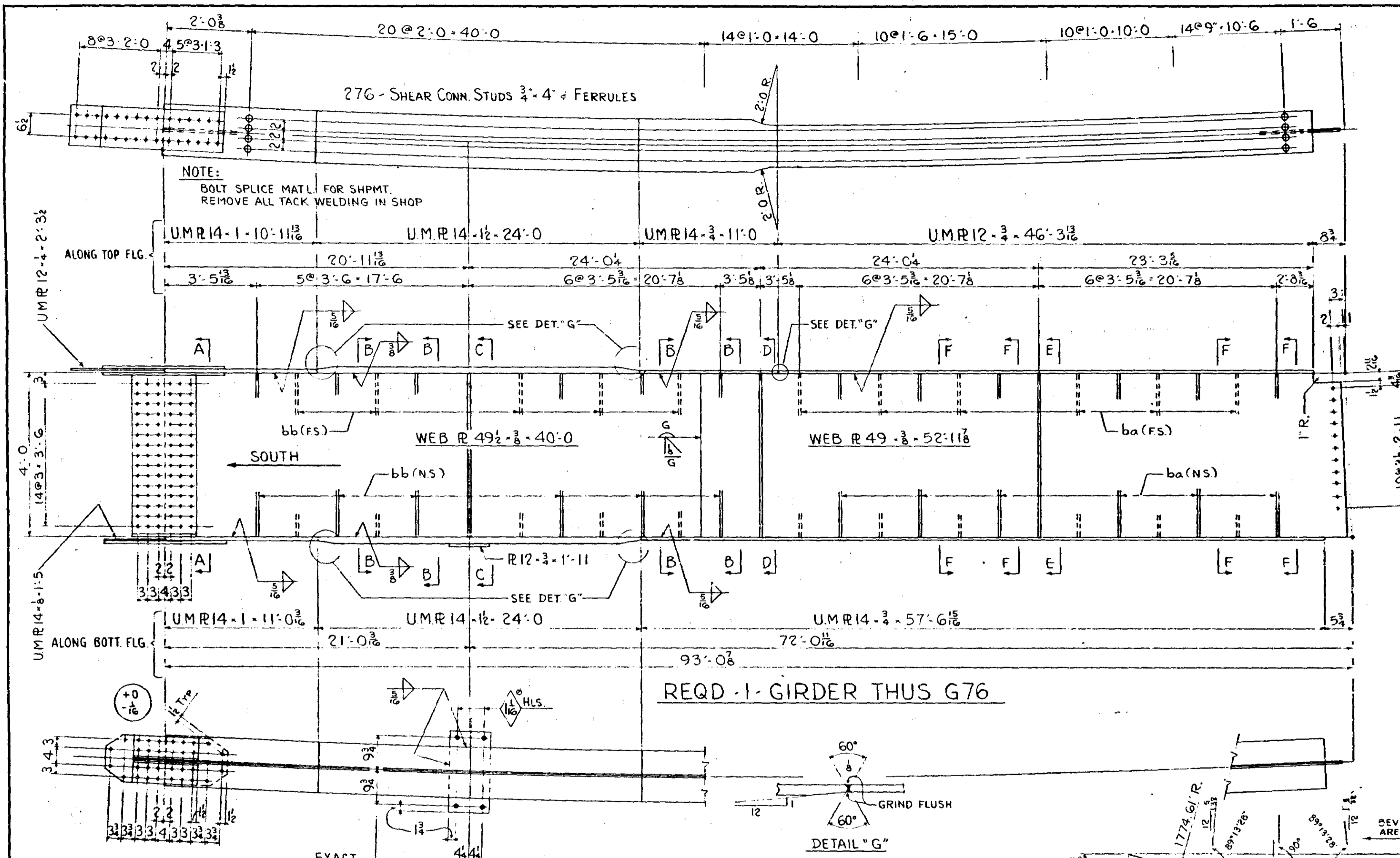
ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

GIRDER DETAIL

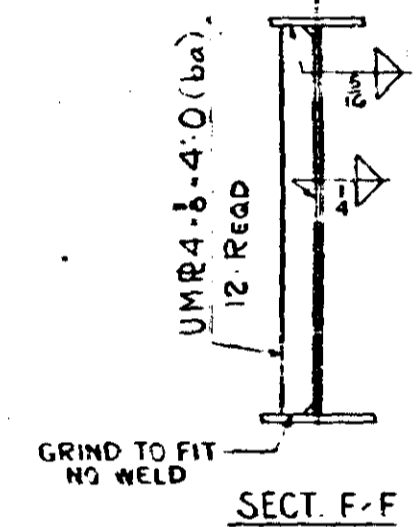
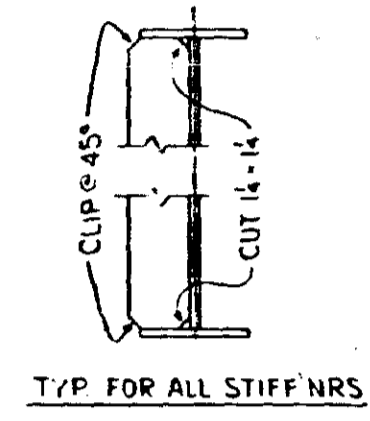
Structure: M.H.D. BRIDGE NO. 9340
Location: MPLS., MINN.
Contractor: INDUSTRIAL CONSTR. CO.
Made by: W.E.S. Checked by: R.P.
Date: 4-29-66 Shop: 75
ORDER NO. 32647 DRAWING NO. 75

NO.	REVISION	Made by	Date

FORM 15-204



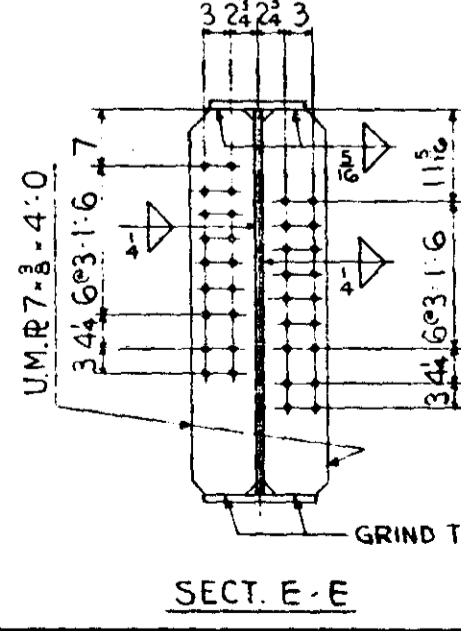
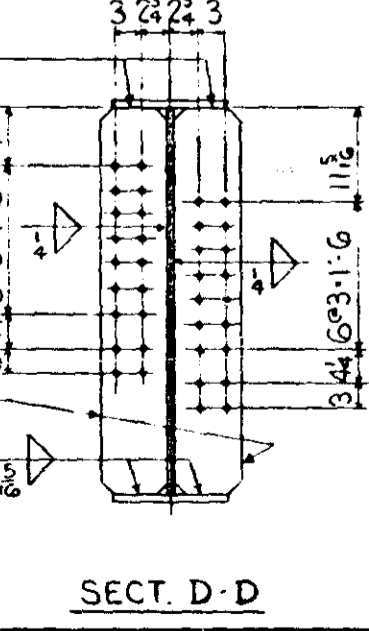
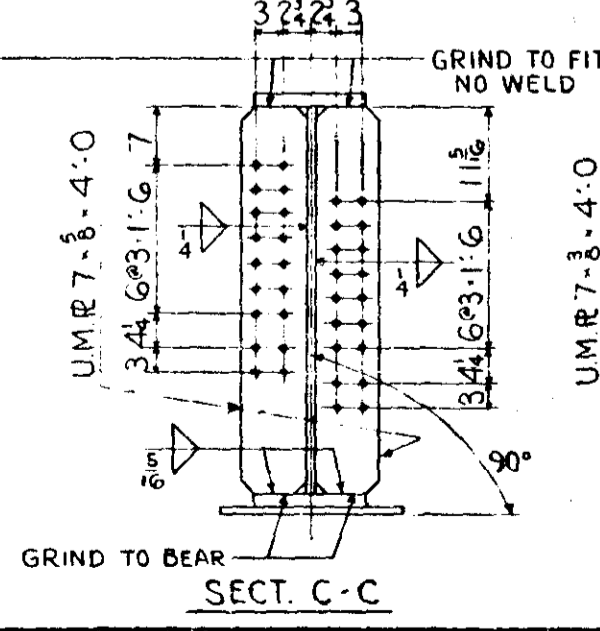
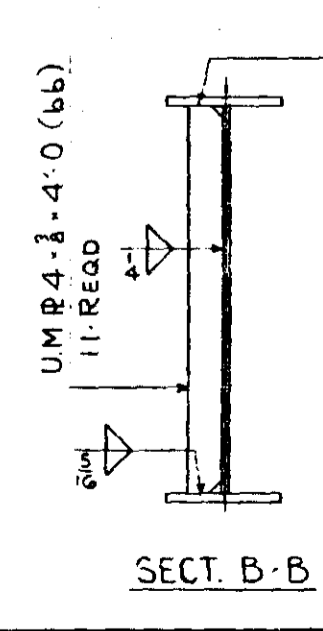
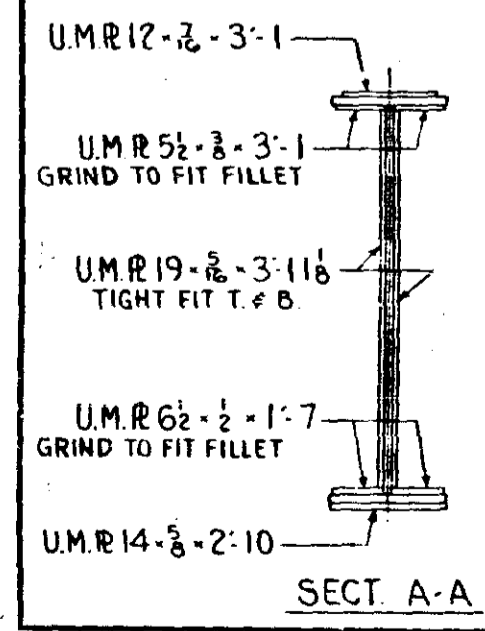
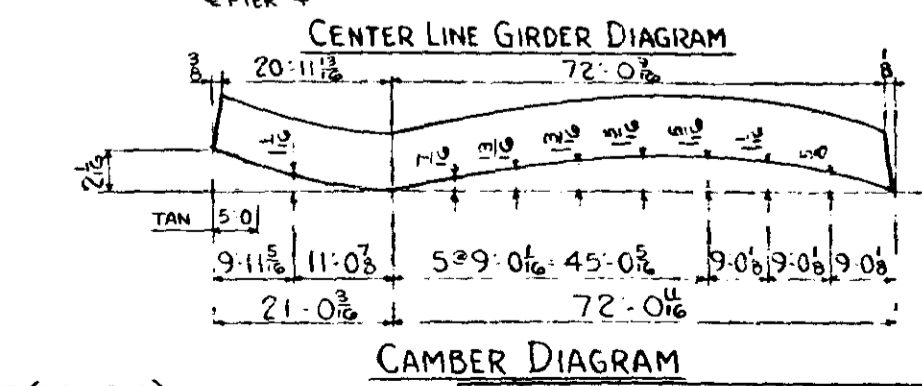
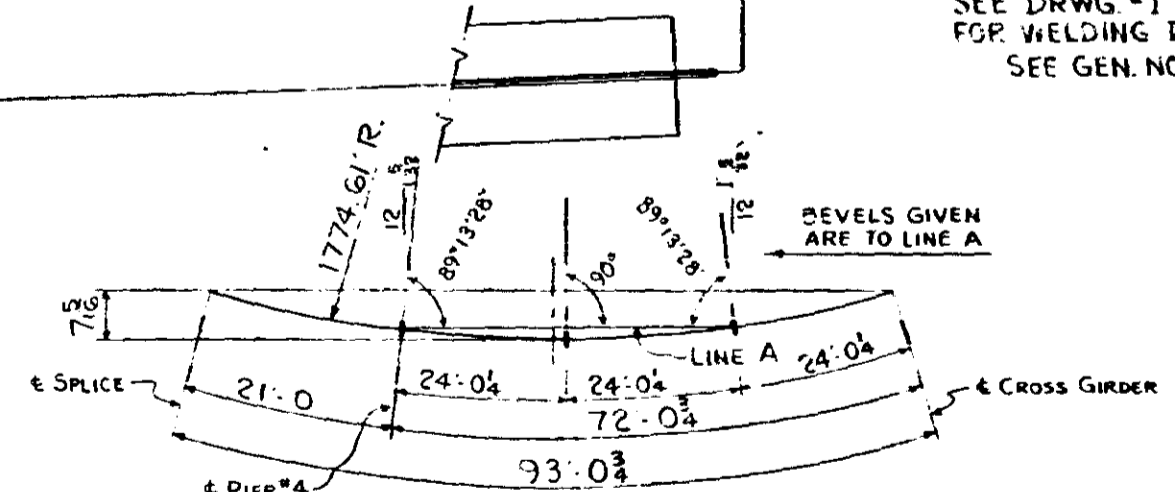
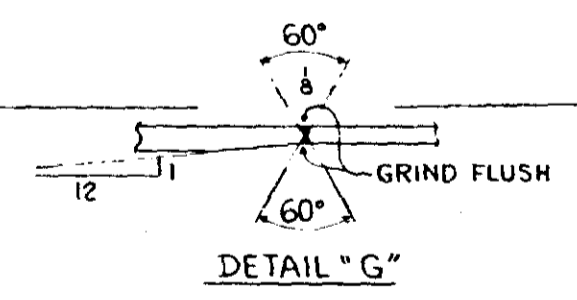
NOTE:
BOLT SPLICE MATL. FOR SHPMT.
REMOVE ALL TACK WELDING IN SHOP



SHOP NOTE:
SEE DRWG #1

GEN NOTES:
SEE DRWG #1
FOR WELDING INSPECTION
SEE GEN. NOTES

REQD - 1 GIRDER THUS G76



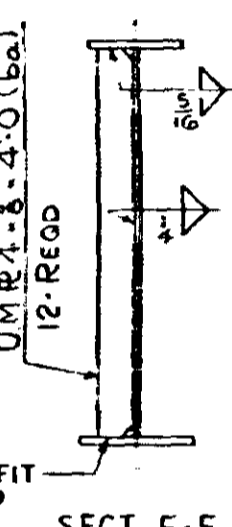
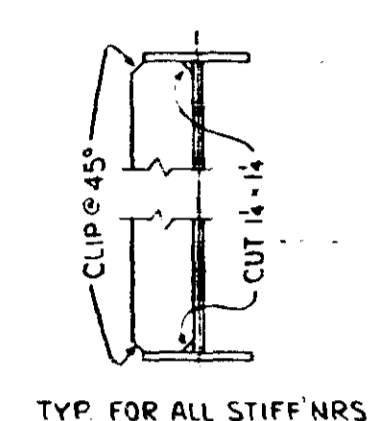
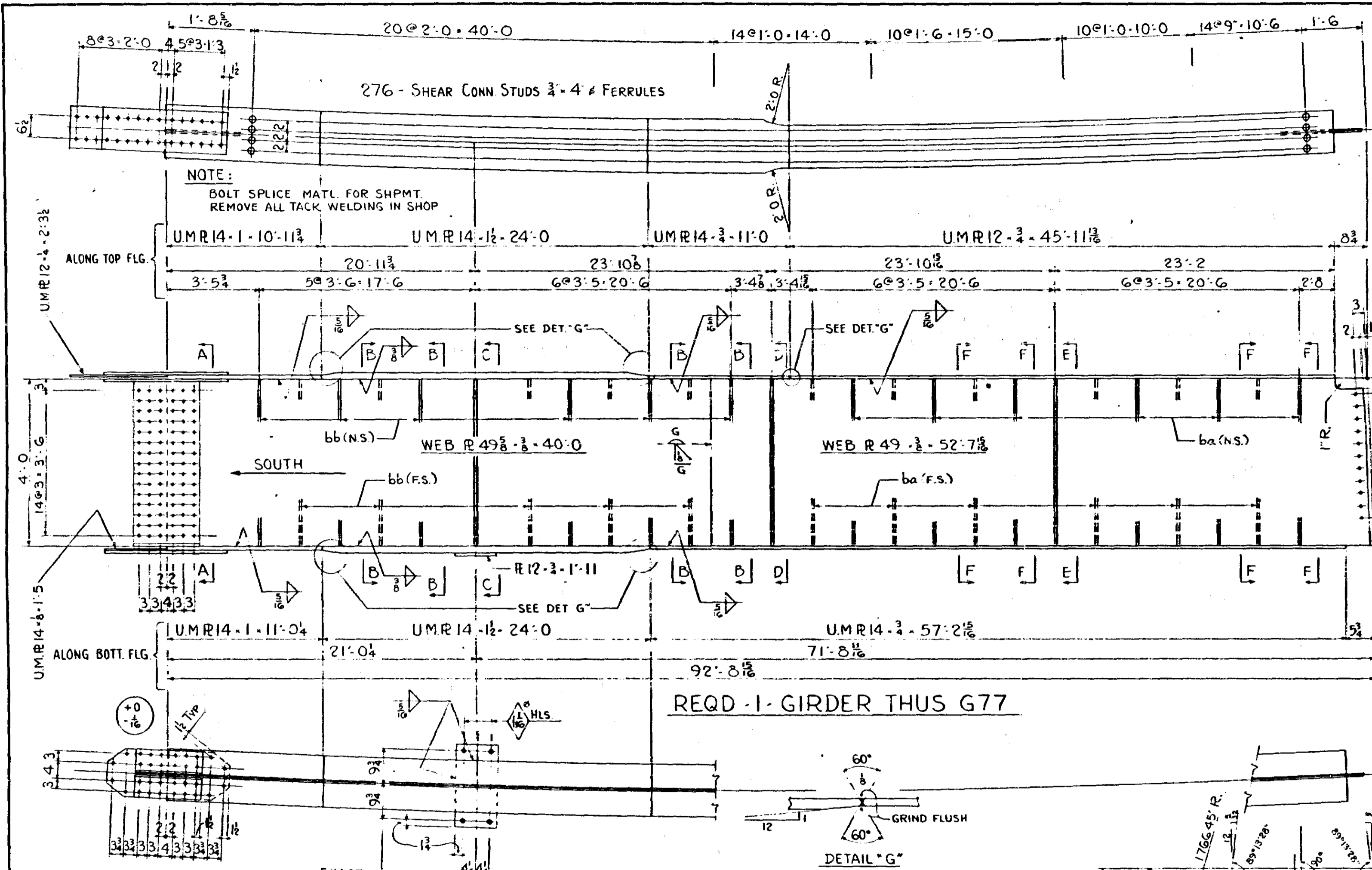
MINN. PROJ #1-IG 35W-3(58) 112
S.P.N#2783-9340B (TH.35W-394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

GIRDER DETAIL

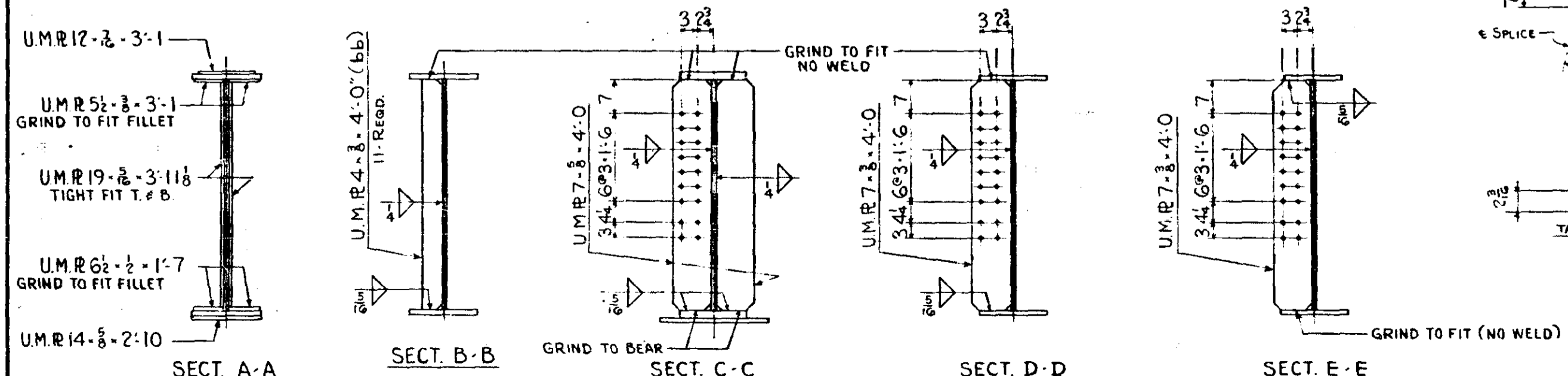
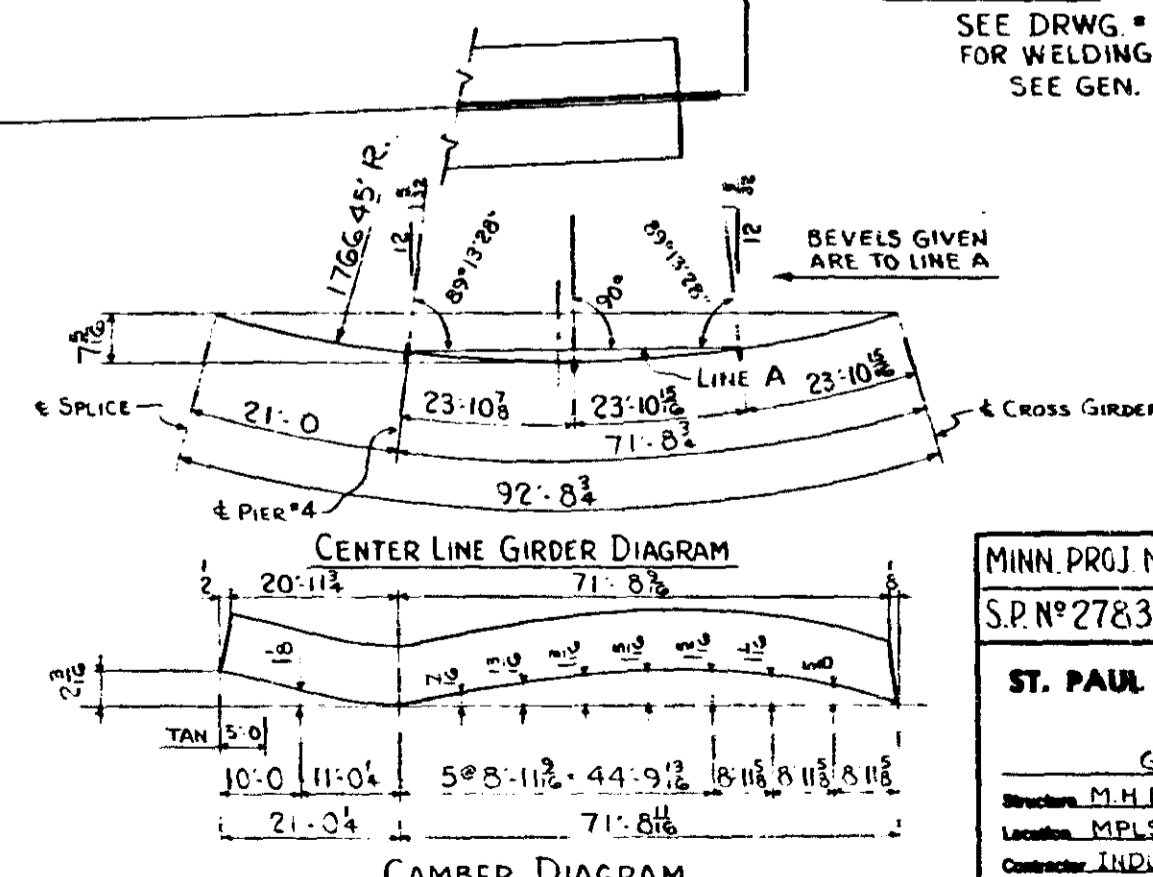
Structure: M.H.D. BRIDGE # 9340
Location: MPLS., MINN.
Contractor: INDUSTRIAL CONSTR. CO.
Made by: W.E.S. Checked by: R.P.
Date: Shop 4-29-66
ORDER NO. 32647 DRAWING NO. 76

NO.	REVISION	Made by	Date

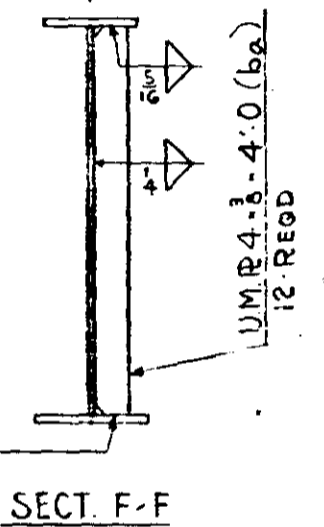
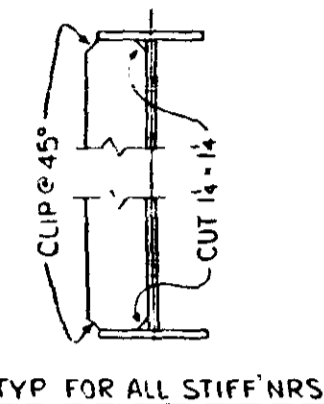
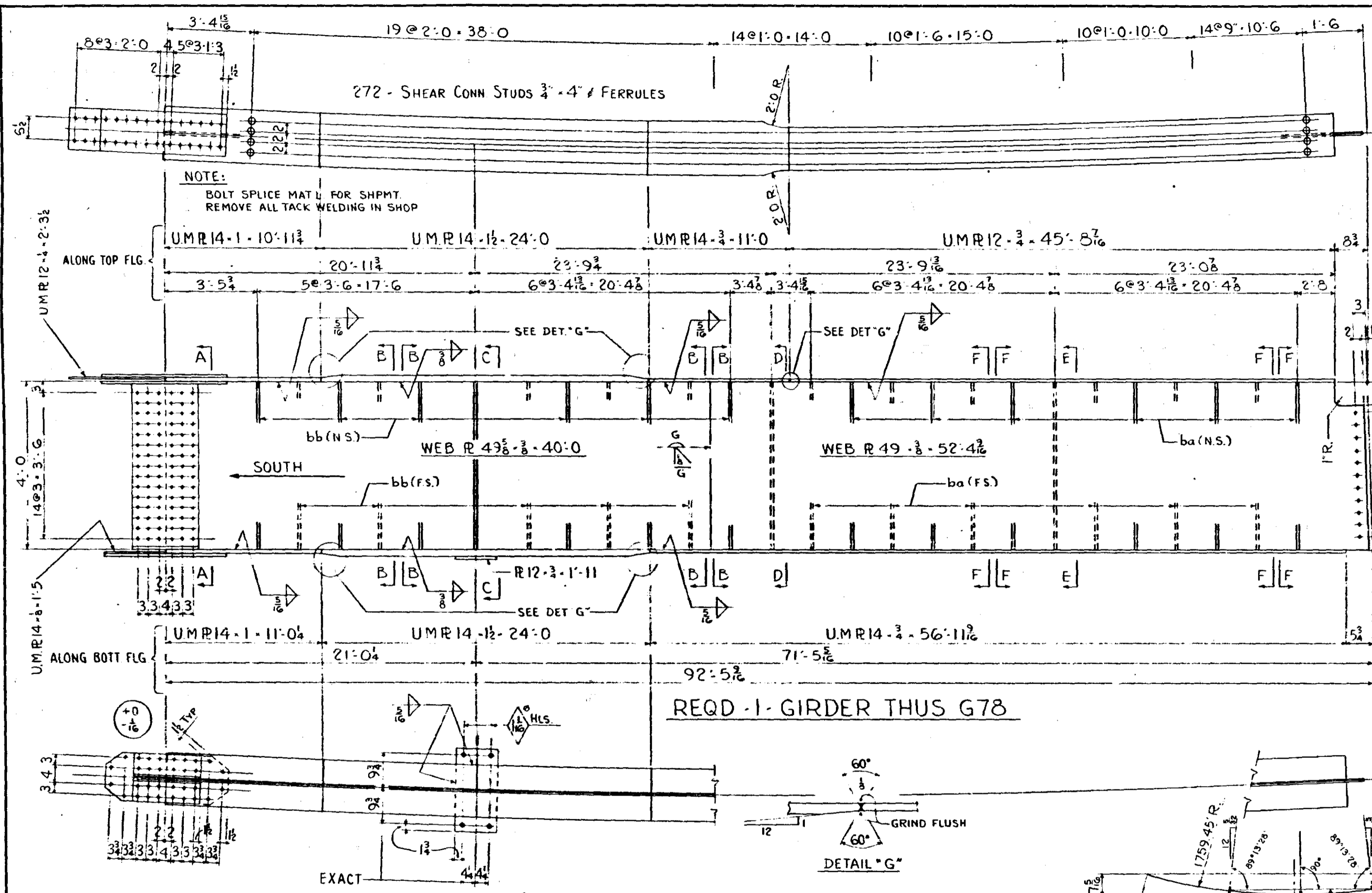


SHOP NOTE:
SEE DRWG. #1

GEN NOTES:
SEE DRWG. #1
FOR WELDING INSPECTION
SEE GEN. NOTES

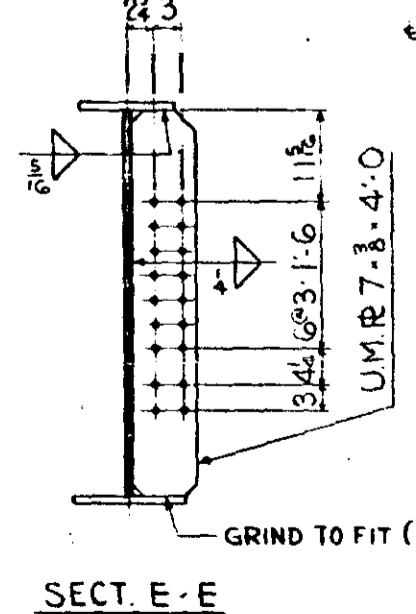
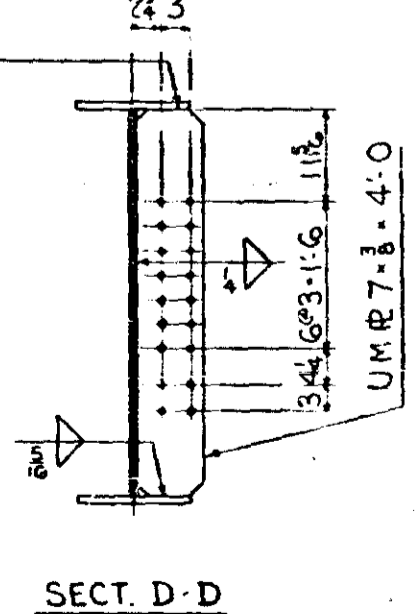
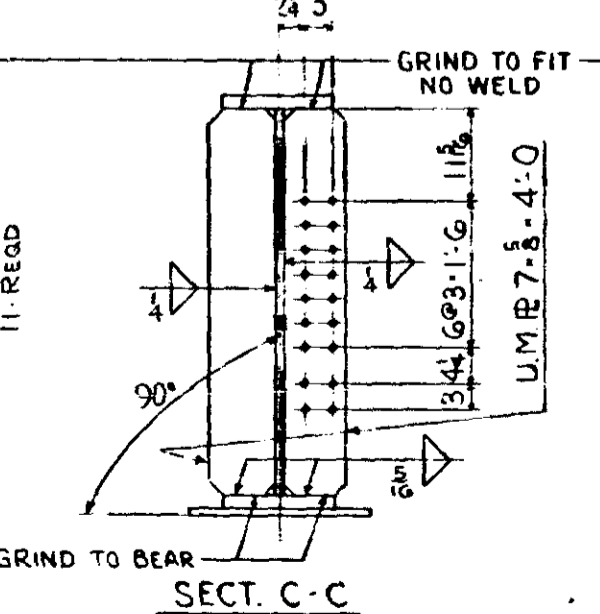
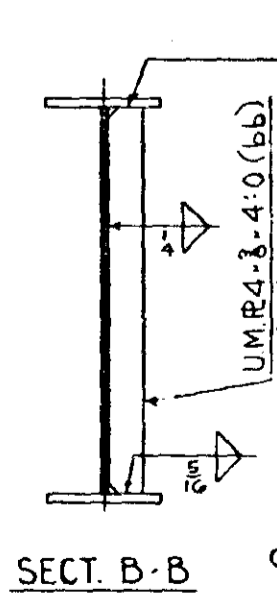
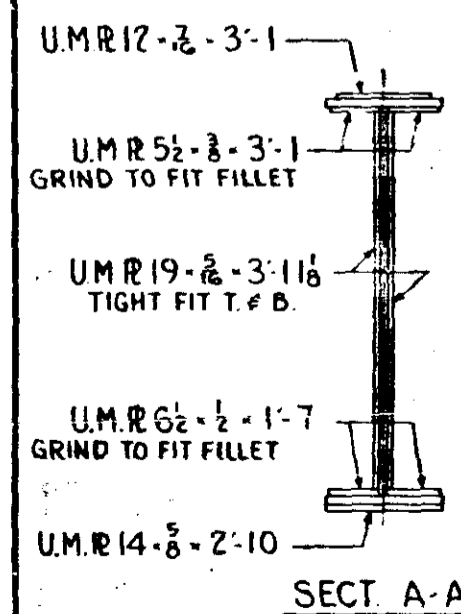
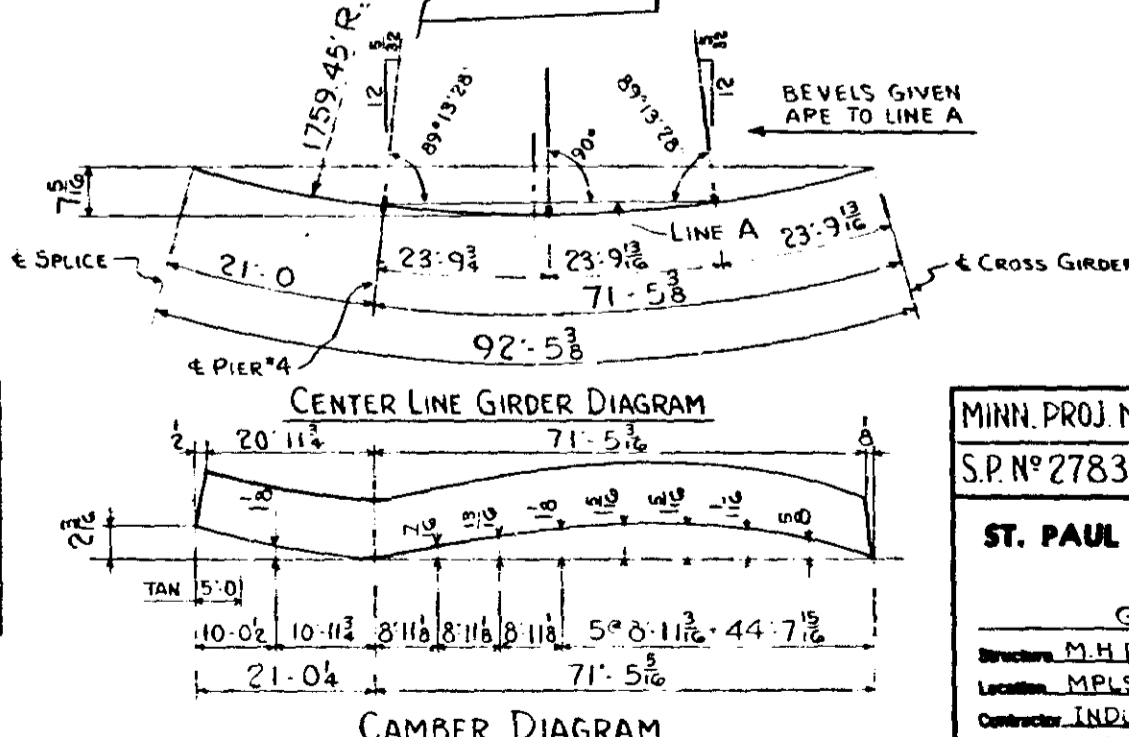
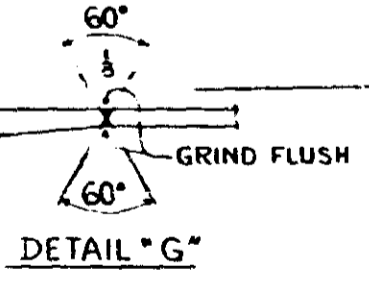


MINN. PROJ. # I-IG 35W-3(58) 112	
S.P. # 2783-9340B (TH 35W-394)	
ST. PAUL FOUNDRY & MFG. CO. ST. PAUL, MINN.	
GIRDER DETAIL	
Structure	M.H.D. BRIDGE # 9340
Location	MPLS., MINN.
Contractor	INDUSTRIA. CONSTR. CO.
Made by	W.E.S.
Checked by	RP
Date	4-29-66
Shop	4-29-66
ORDER NO.	32647
DRAWING NO.	77
NO.	REVISION
Drawn by	Date



SHOP NOTE:
SEE DRWG #1

GEN NOTES:
SEE DRWG #1
FOR WELDING INSPECTION
SEE GEN. NOTES



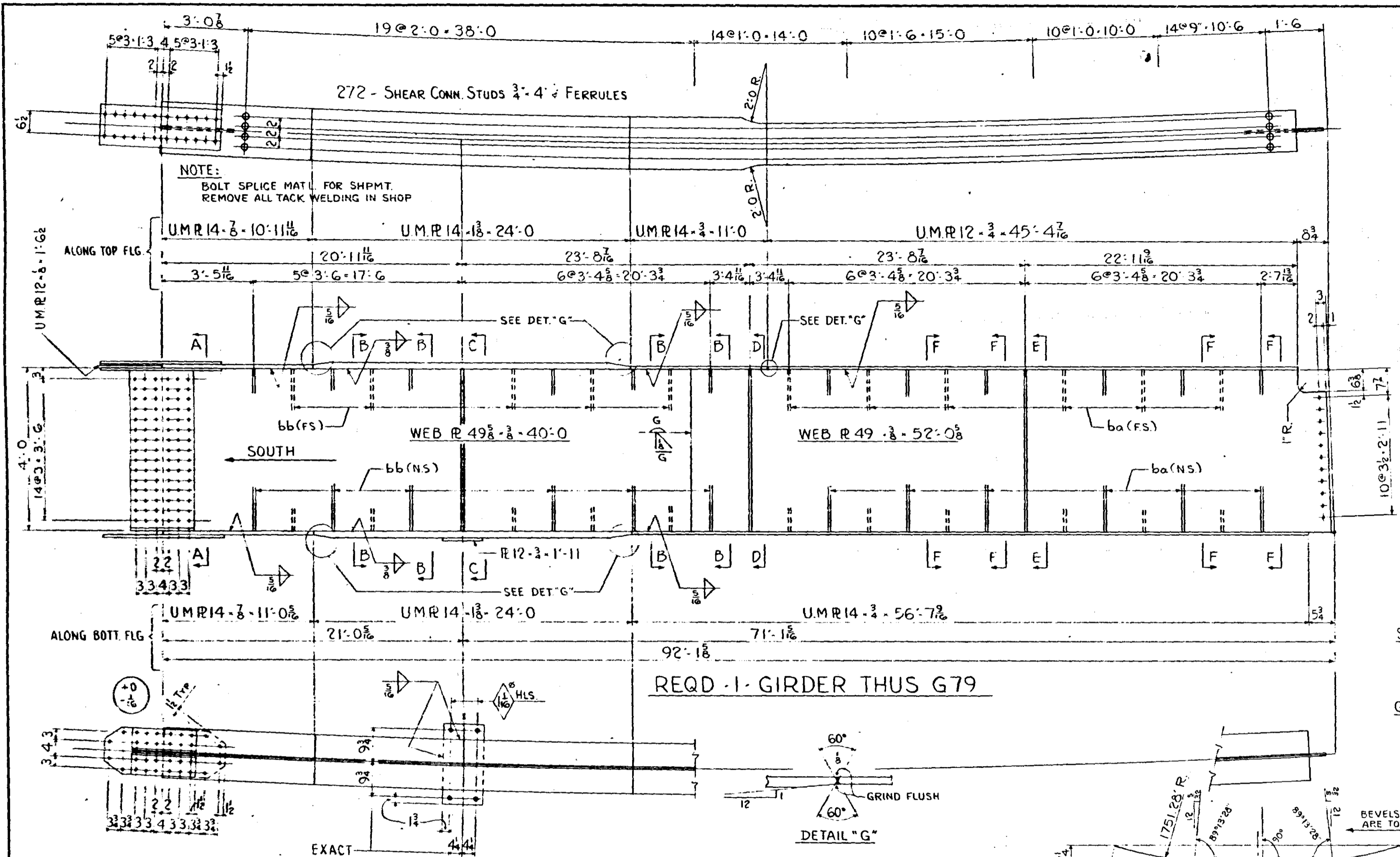
MINN. PROJ. NO. 1-IG 35W-3(58) 112
S.P. NO. 2783-9340B (TH 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

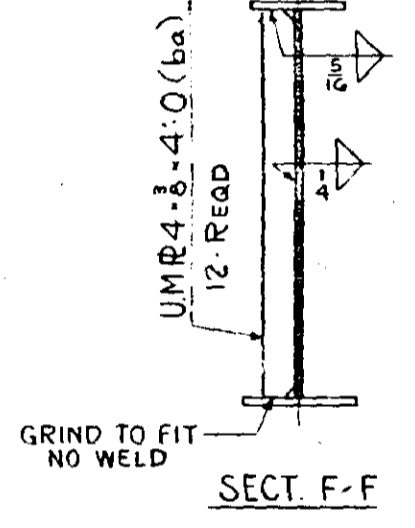
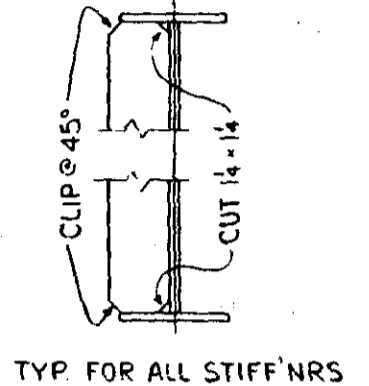
GIRDER DETAIL

Structure: M.H.D. BRIDGE NO. 9340
Location: MPLS., MINN.
Contractor: INDUSTRIAL CONSTR. CO.
Made by: W.E.S. Checked by: RP
Date: 4-29-66 Shop: 4-29-66
ORDER NO. 32647 DRAWING NO. 78

NO.	REVISION	Made by	Date



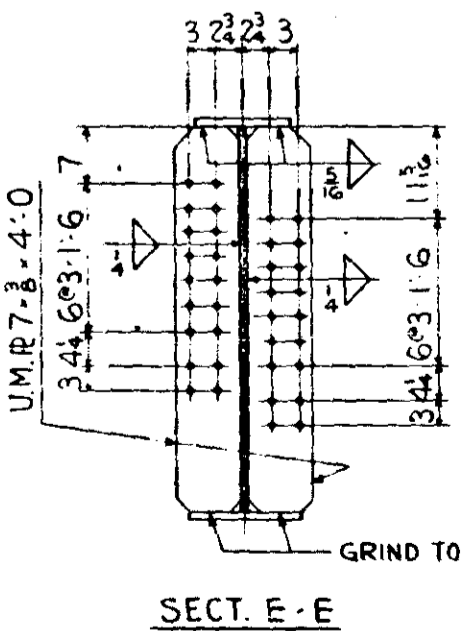
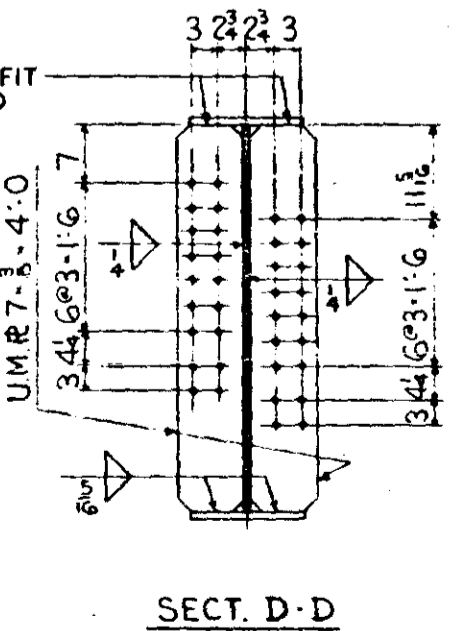
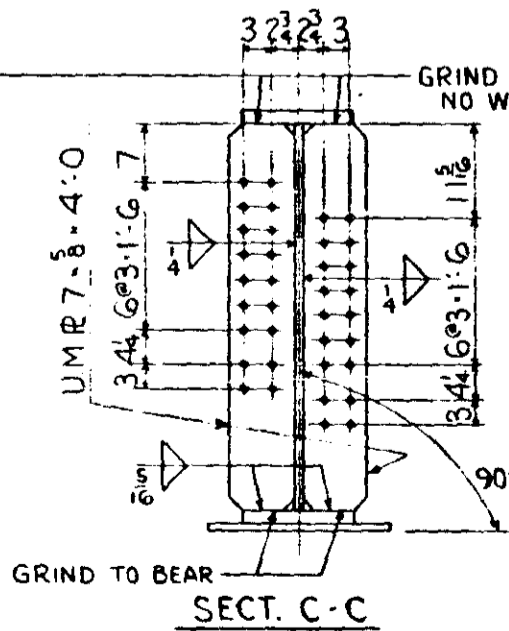
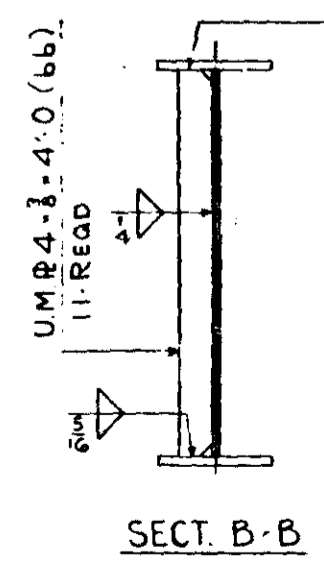
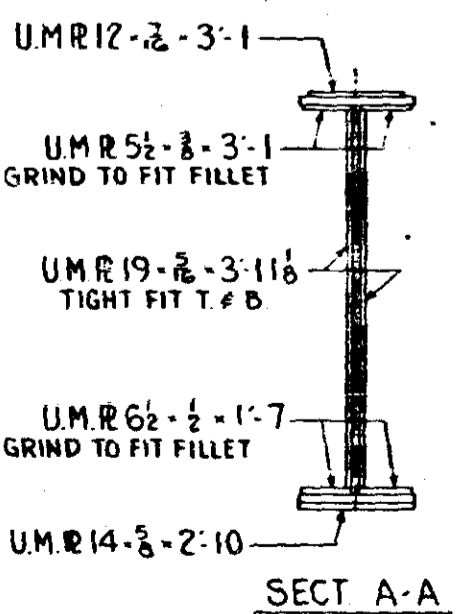
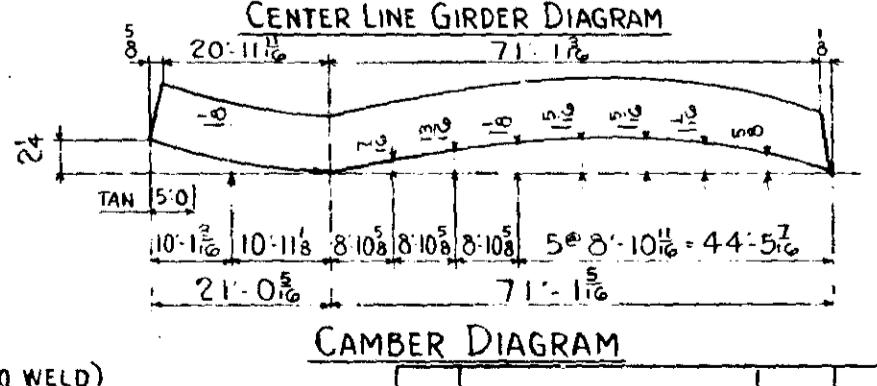
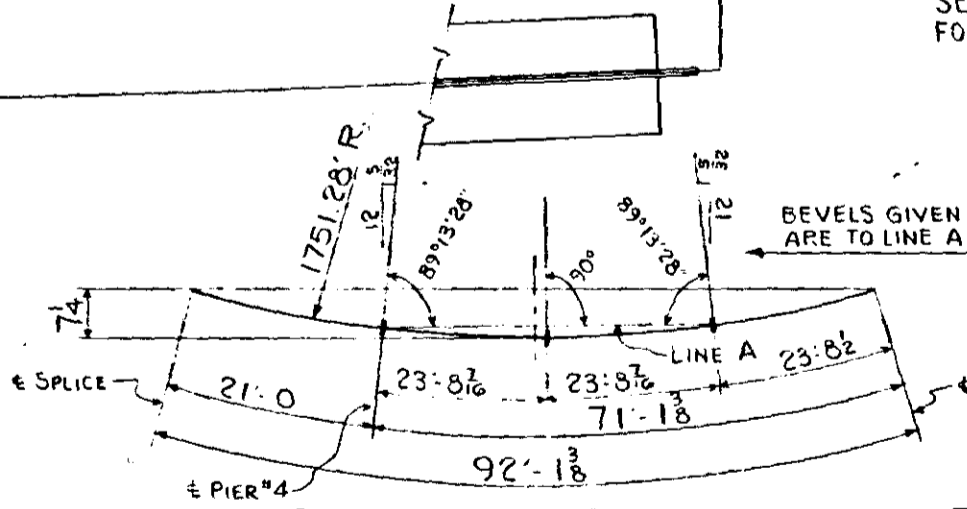
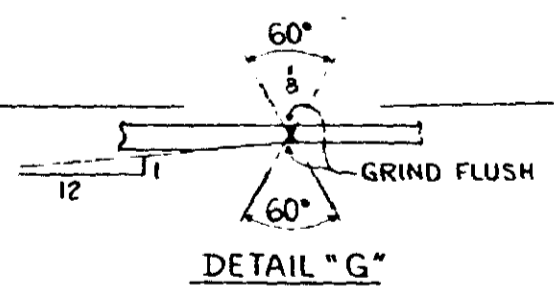
NOTE:
BOLT SPLICE MATL FOR SHPMT.
REMOVE ALL TACK WELDING IN SHOP



SHOP NOTE:
SEE DRWG. #1

GEN NOTES:
SEE DRWG. #1
FOR WELDING INSPECTION
SEE GEN. NOTES

REQD. 1 GIRDER THUS G79

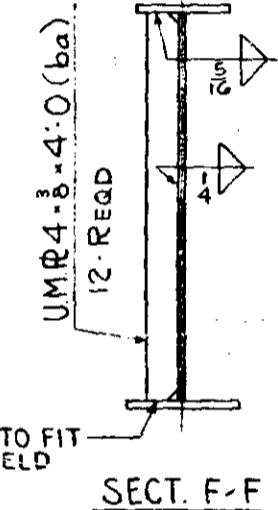
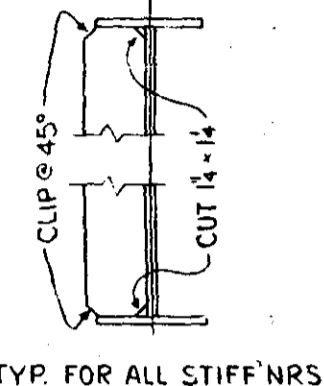
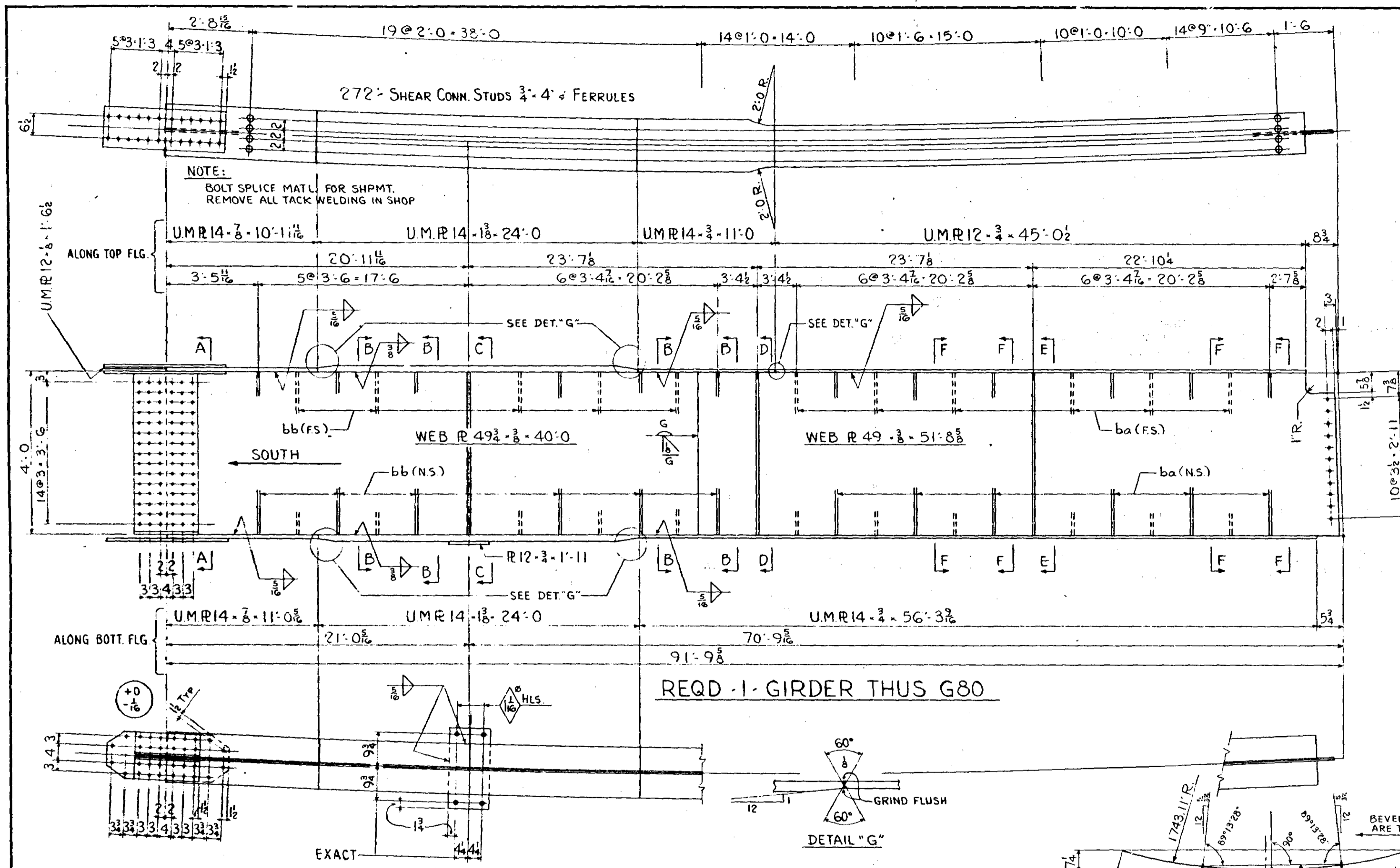


MINN. PROJ. NO. I-IG 35W-3(58) 112
S.P. NO. 2783-9340B (TH. 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

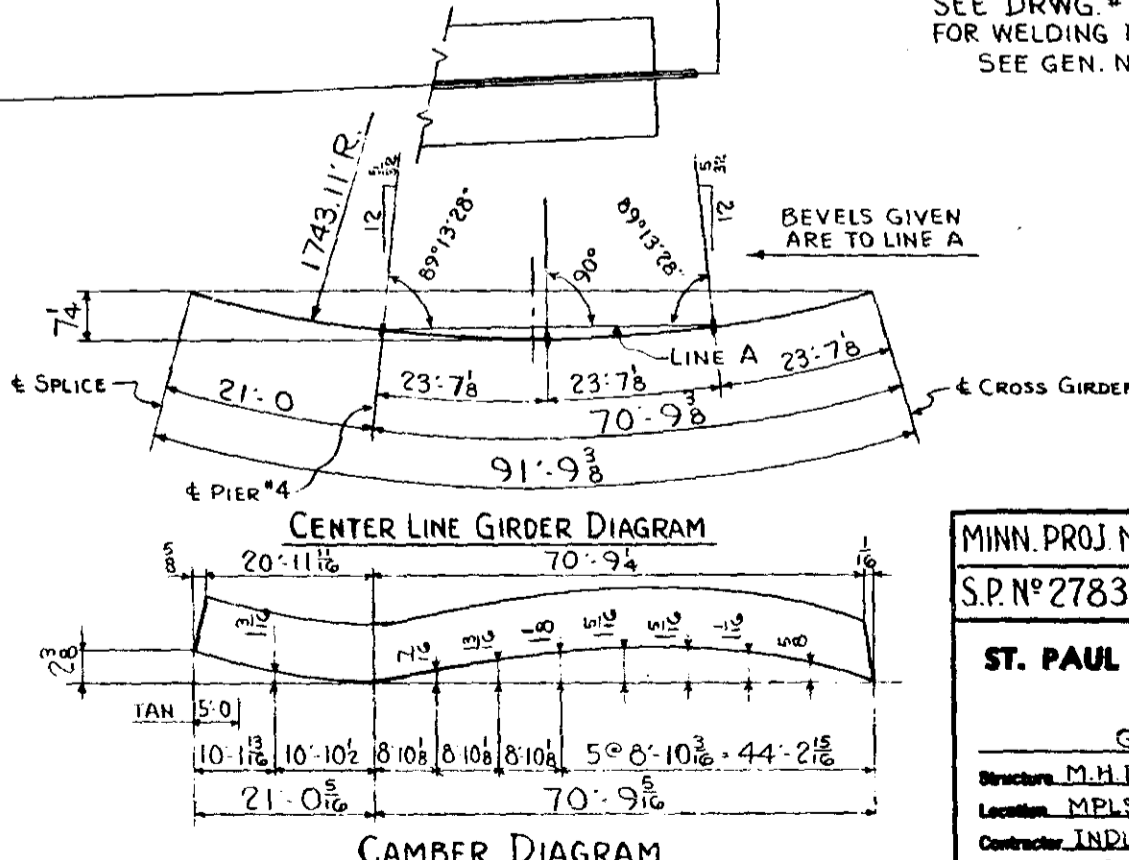
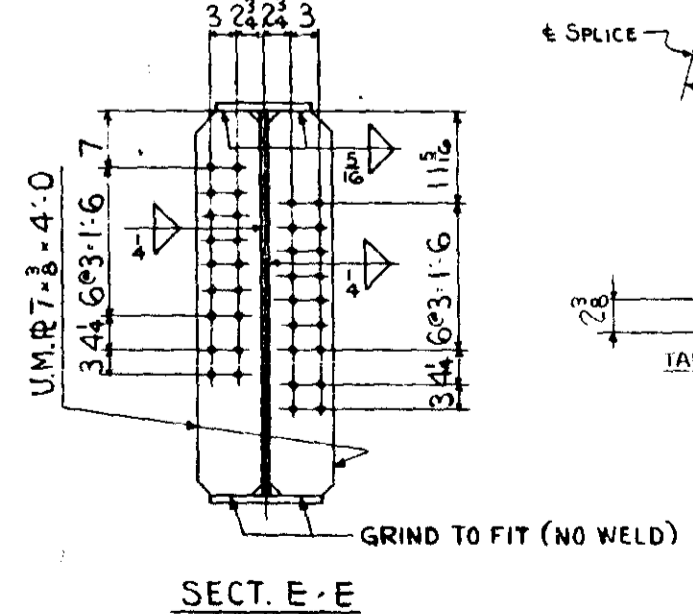
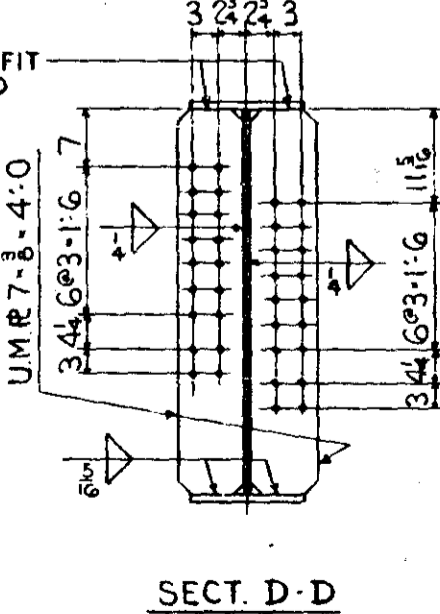
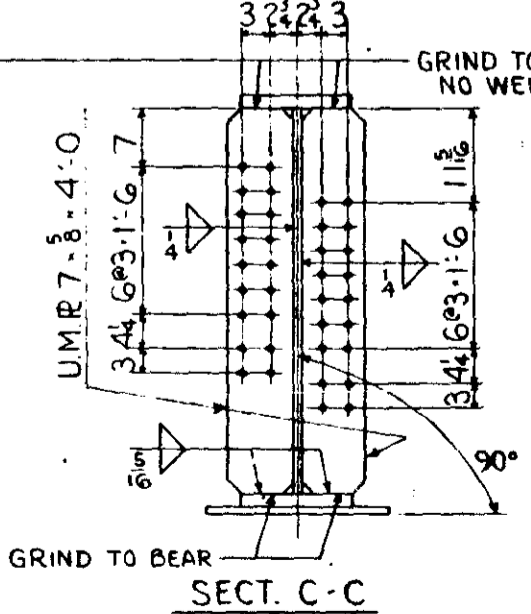
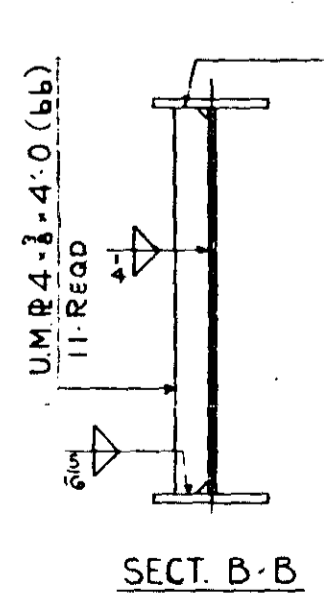
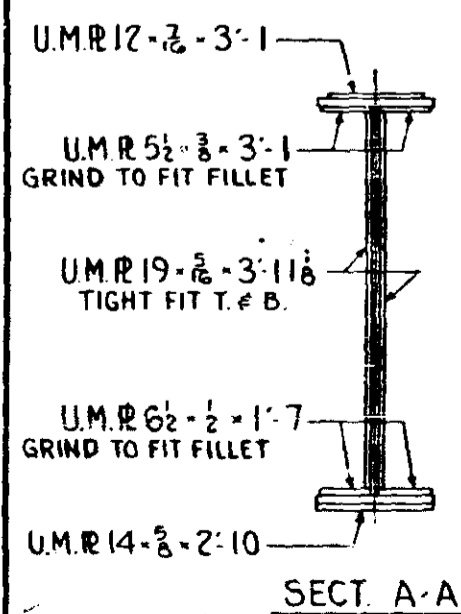
GIRDER DETAIL
Structure: M.H.D. BRIDGE NO. 9340
Location: MPLS., MINN.
Contractor: INDUSTRIAL CONSTR. CO.
Made by: W.E.S. Checked by: R.P.
Date: 4-29-66
ORDER NO. 32647 DRAWING NO. 79

NO.	REVISION	Made by	Outs



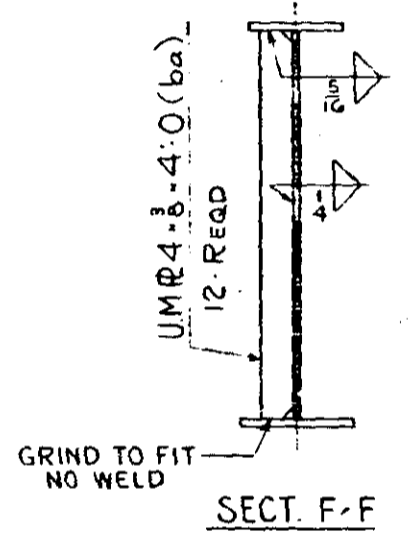
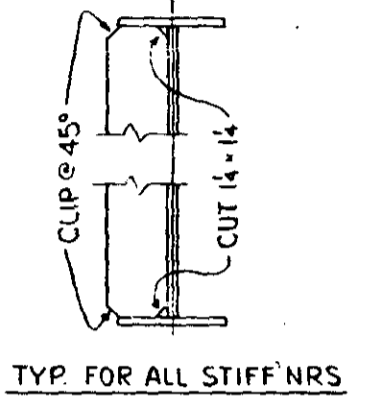
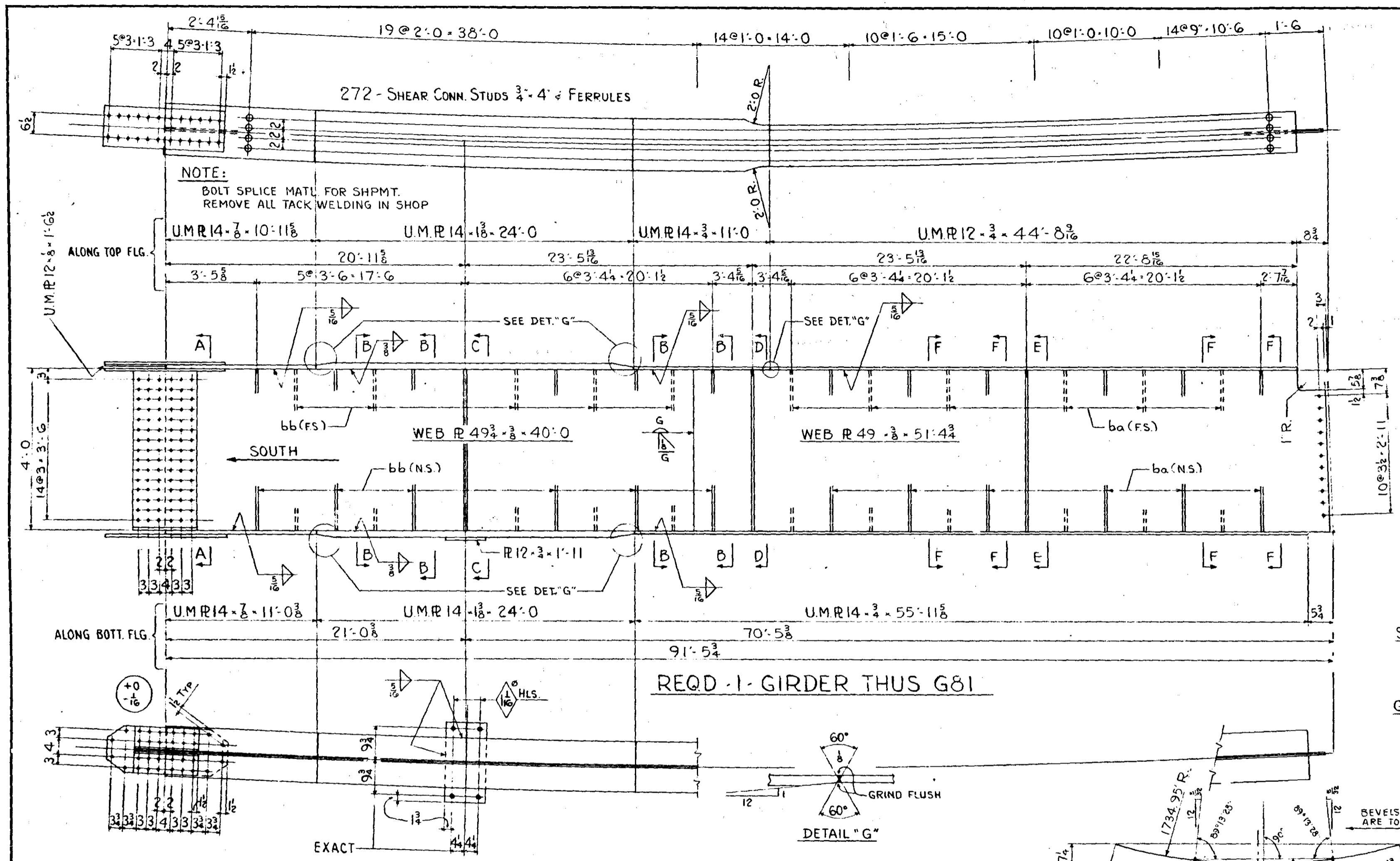
SHOP NOTE:
SEE DRWG. #1

GEN. NOTES:
SEE DRWG. #1
FOR WELDING INSPECTION
SEE GEN. NOTES



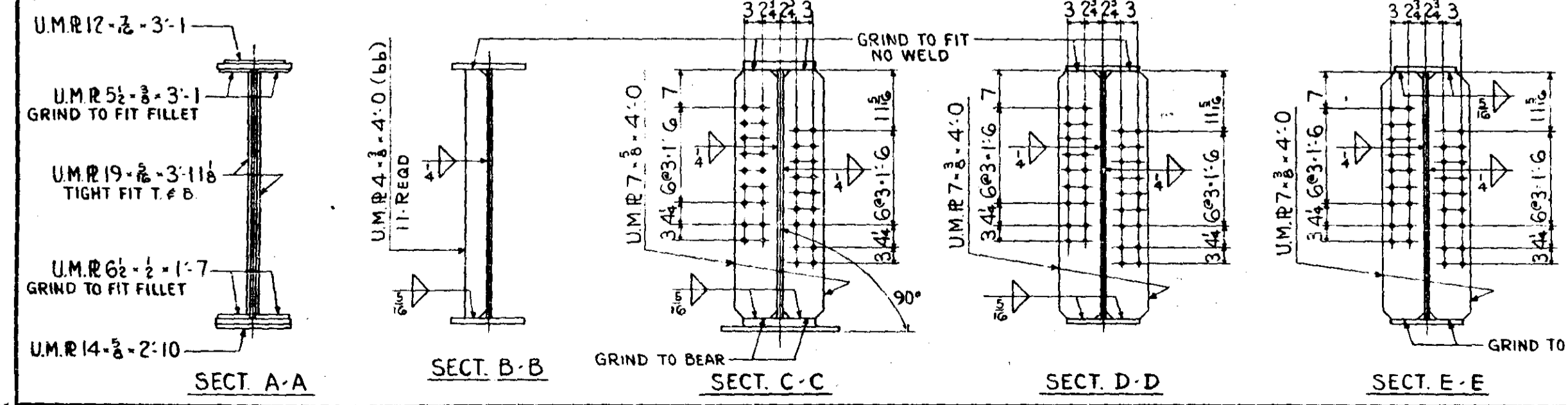
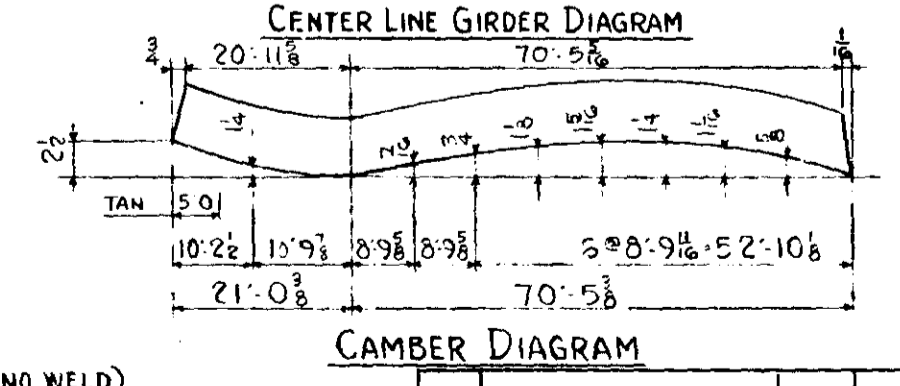
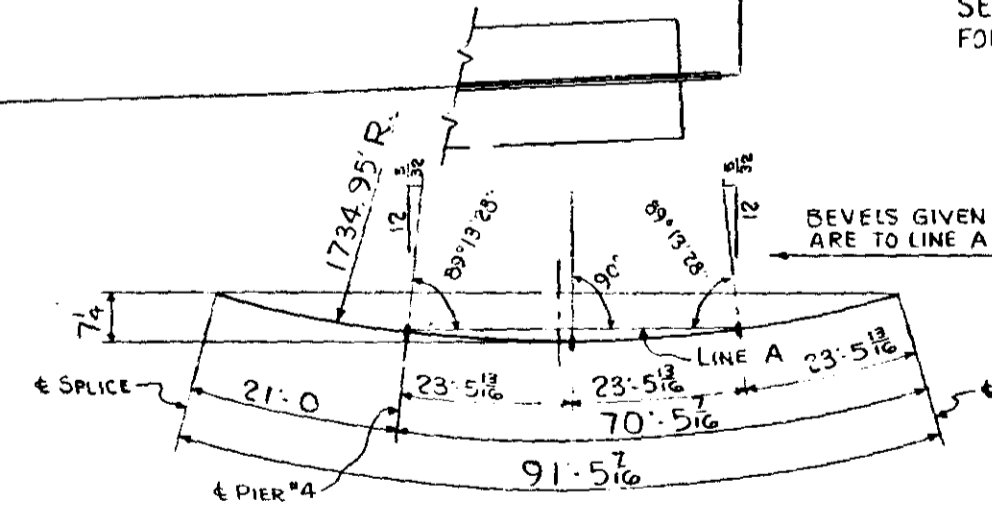
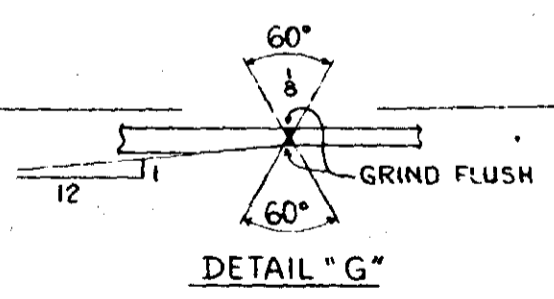
MICRO-FILM

MINN. PROJ. N° I-IG 35W-3(58) 112
S.P.N° 2783-9340B (TH. 35W-394)
ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.
GIRDER DETAIL
Structure M.H.D. BRIDGE N° 9340
Location MPLS., MINN.
Contractor INDUSTRIAL CONSTR. CO.
Made by W.E.S. Checked by K.P.
Date 4-29-66
ORDER NO. 32647 DRAWING NO. 80
NO. REVISION Made by Date



SHOP NOTE:
SEE DRWG. #1

GEN NOTES:
SEE DRWG. #1
FOR WELDING INSPECTION
SEE GEN. NOTES



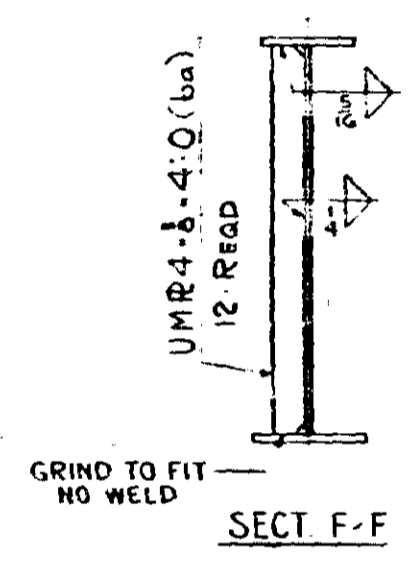
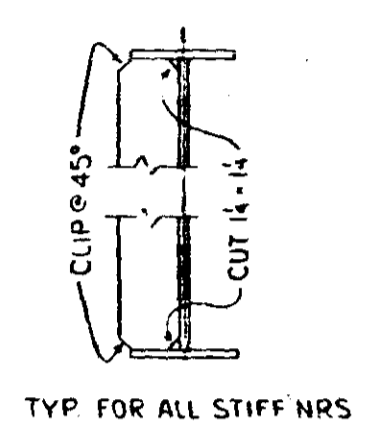
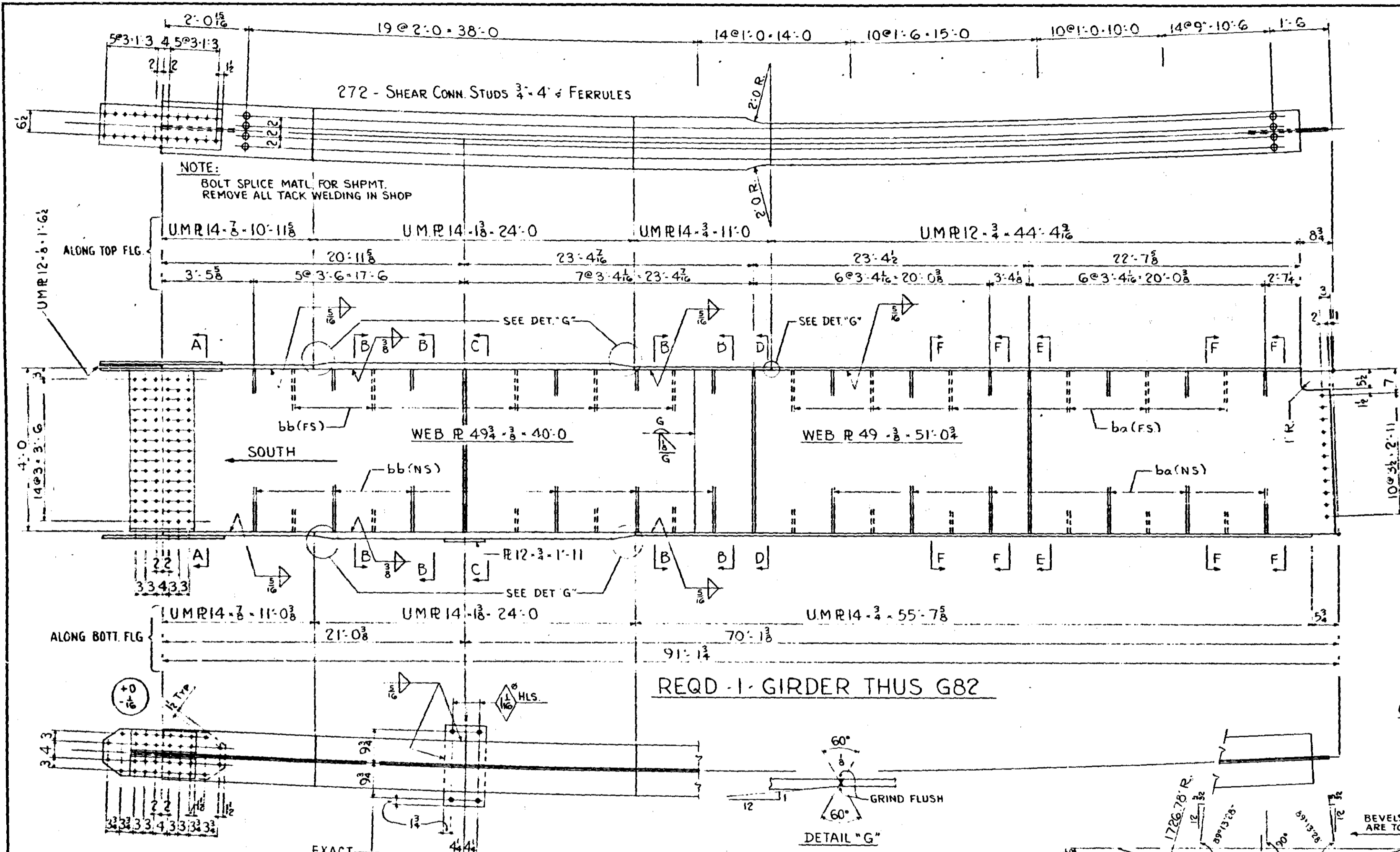
MINN. PROJ. N° I-IG 35W-3(58) 112
S.P. N° 2783-9340B (T.H. 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

GIRDER DETAIL

Structure: M.H.P. BRIDGE N° 9340
Location: MPLS., MINN.
Contractor: INDUSTRIAL CONSTR. CO.
Made by: W.F.S. Checked by: RP
Date: 4-29-66 Shop: 4-29-66
ORDER NO. 32647 DRAWING NO. 81

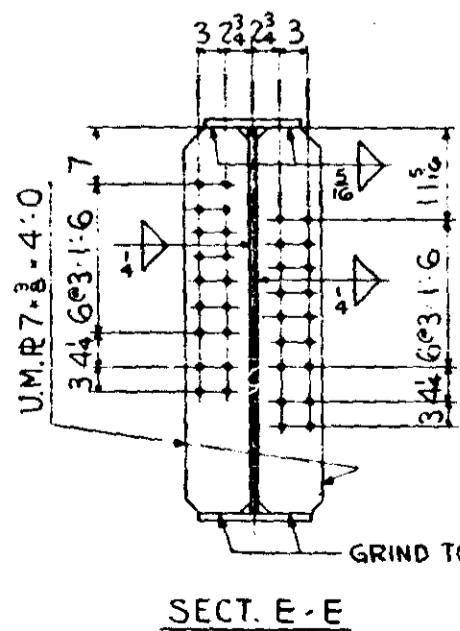
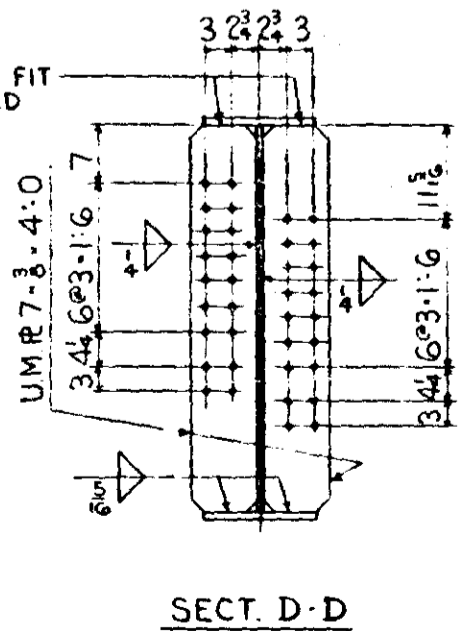
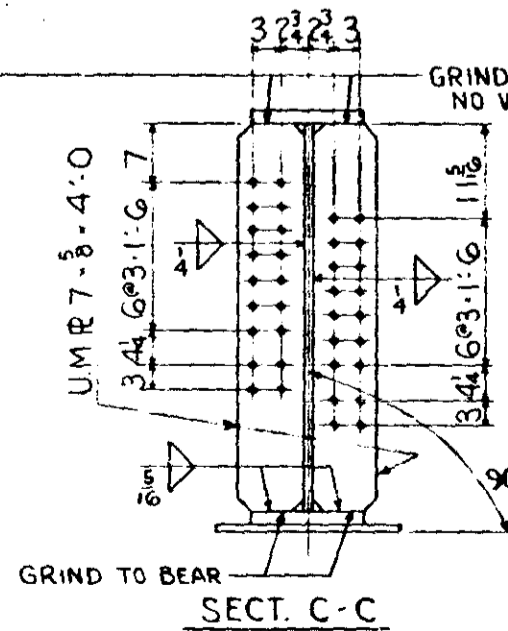
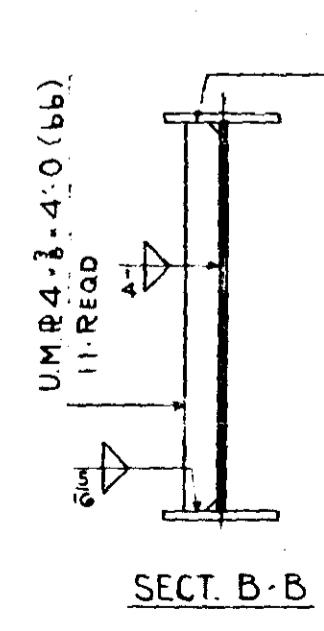
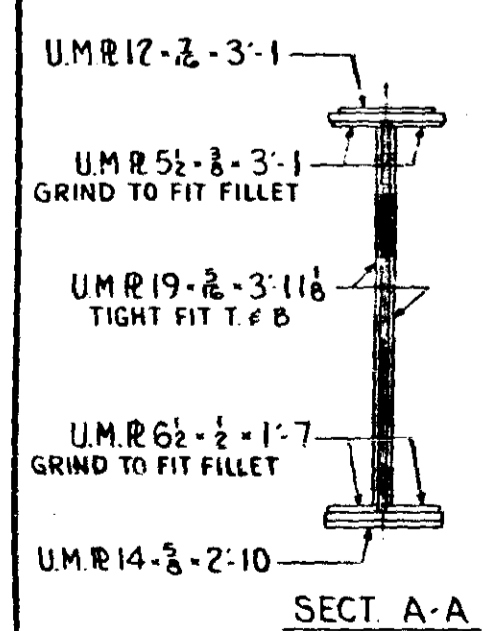
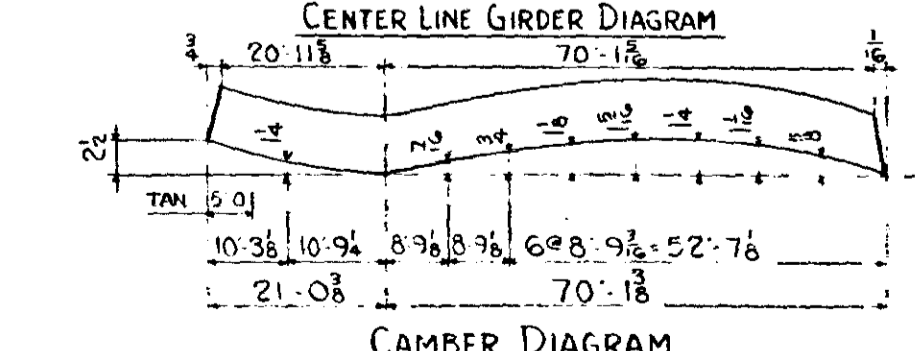
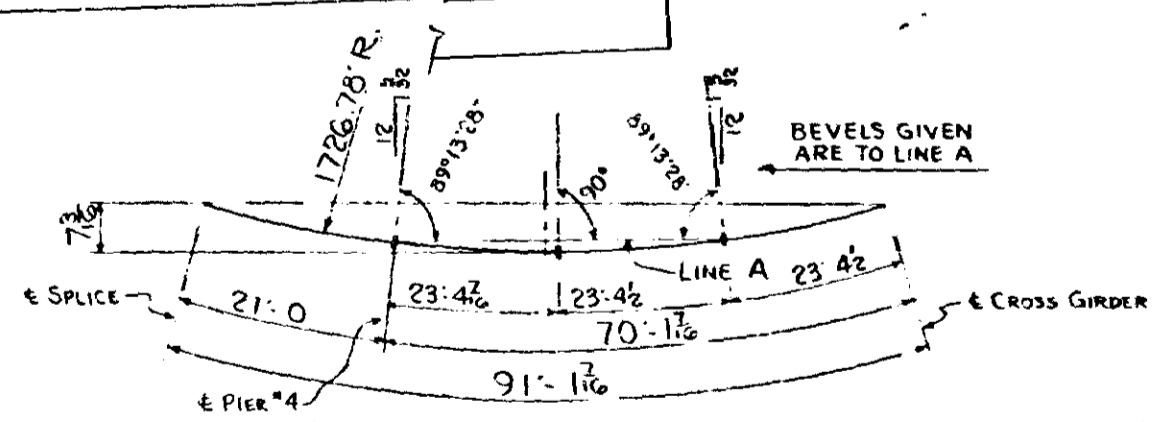
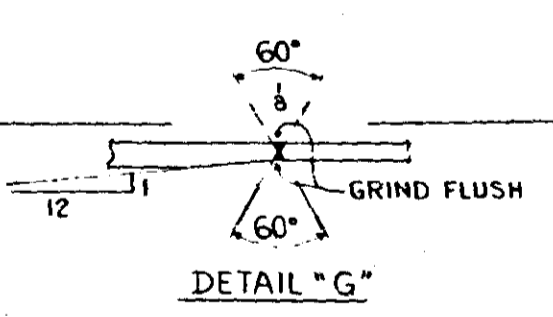
NO.	REVISION	Made by	Date



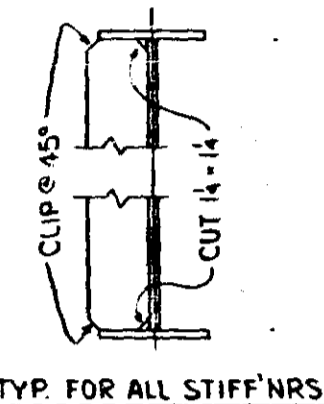
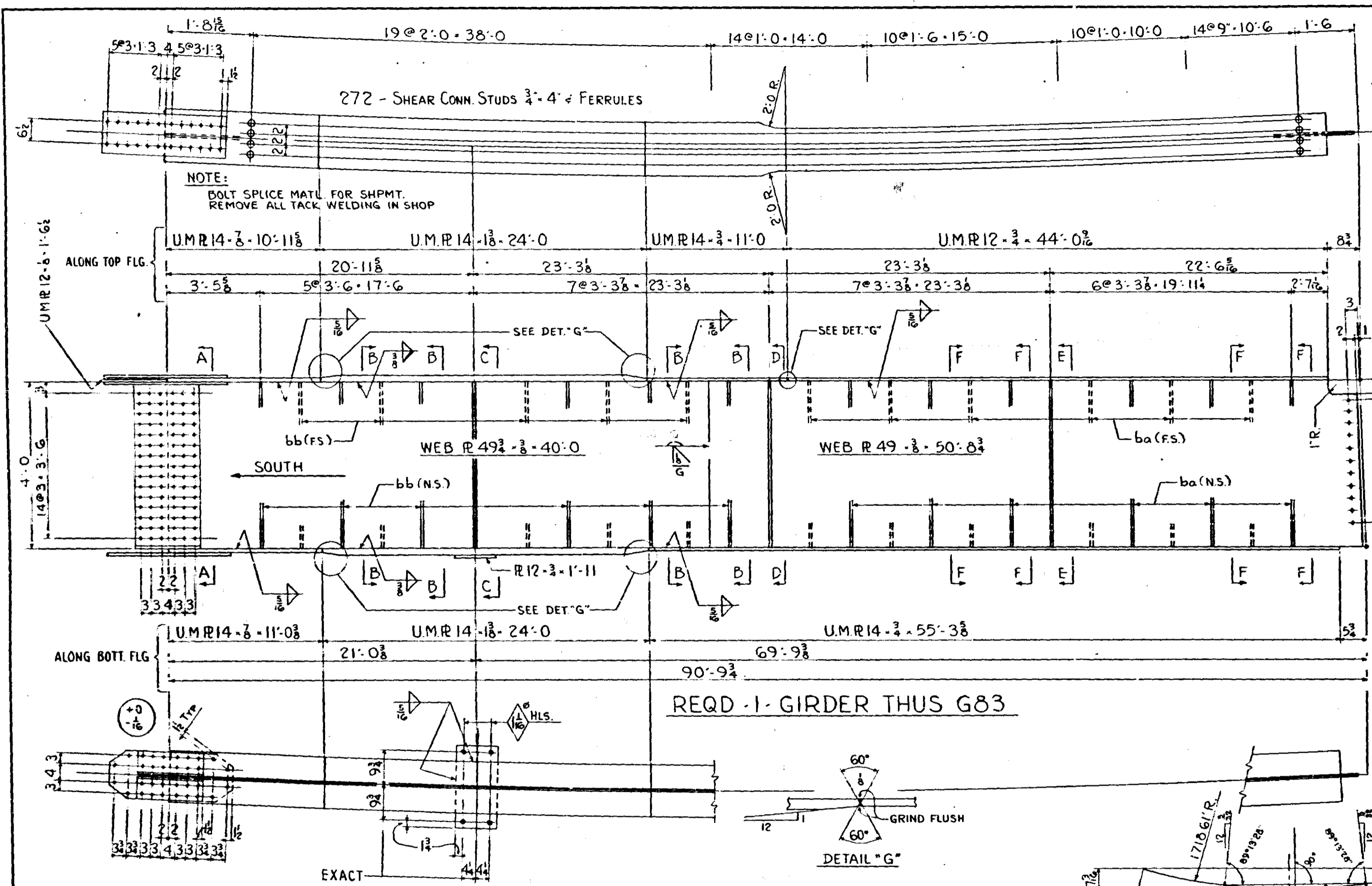
SHOP NOTE:
SEE DRWG #1

GEN NOTES:
SEE DRWG. #1
FOR WELDING INSPECTION
SEE GEN. NOTES

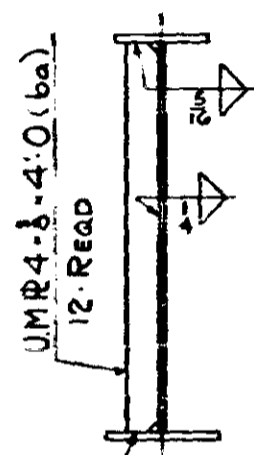
REQD. I-GIRDER THUS G82



MINN. PROJ. NO. I-1G 35W-3(58) 112	
S.P.N. 2783-9340B (T.H. 35W-394)	
ST. PAUL FOUNDRY & MFG. CO.	
ST. PAUL, MINN.	
GIRDER DETAIL	
Structure M.H.D. BRIDGE NO. 9340	
Location MPLS., MINN.	
Contractor INDUSTRIAL CONSTR. CO.	
Made by W.E.S.	Checked by R.P.
Date	Shop 4-29-66
ORDER NO. 32647	DRAWING NO. 82
NO.	REVISION
	Made by
	Date



TYP. FOR ALL STIFFNRS

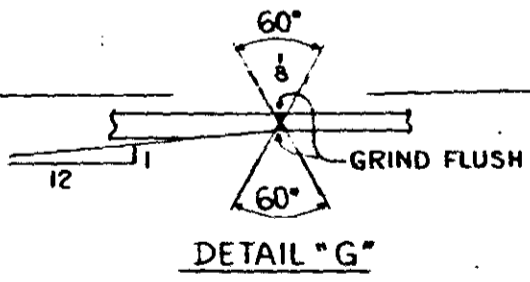


GRIND TO FIT NO WELD
SECT. F-F

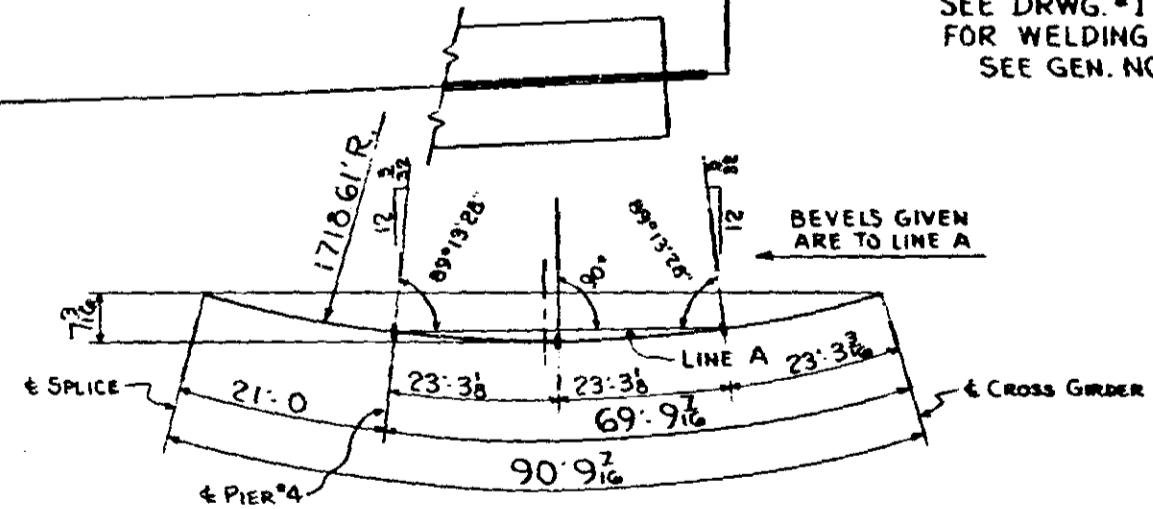
SHOP NOTE:
SEE DRWG. #1

GEN NOTES:
SEE DRWG. #1
FOR WELDING INSPECTION
SEE GEN. NOTES

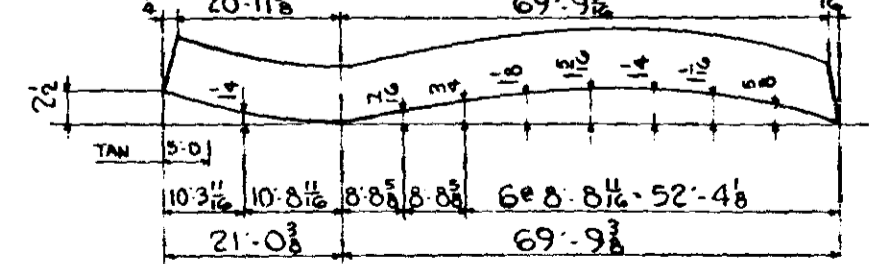
REQD. 1-GIRDER THUS G83



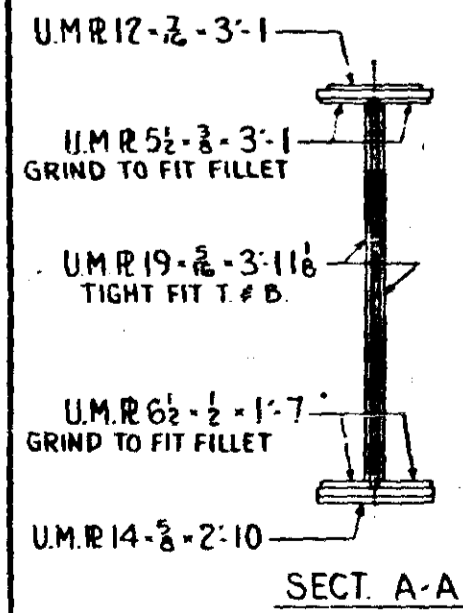
DETAIL "G"



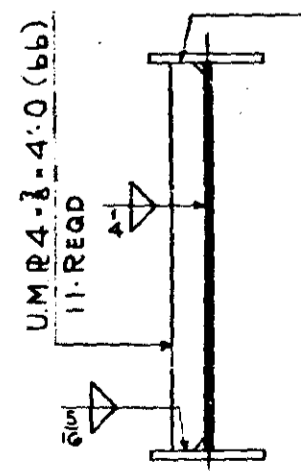
CENTER LINE GIRDER DIAGRAM



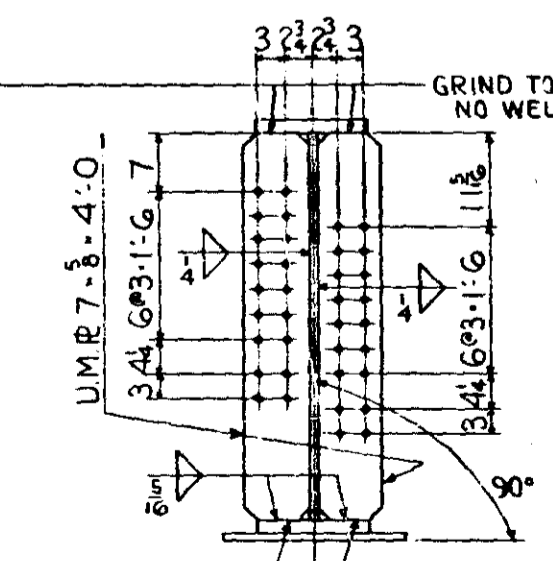
CAMBER DIAGRAM



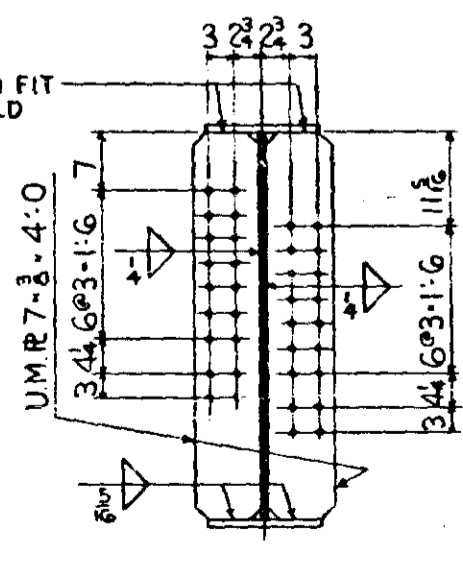
SECT. A-A



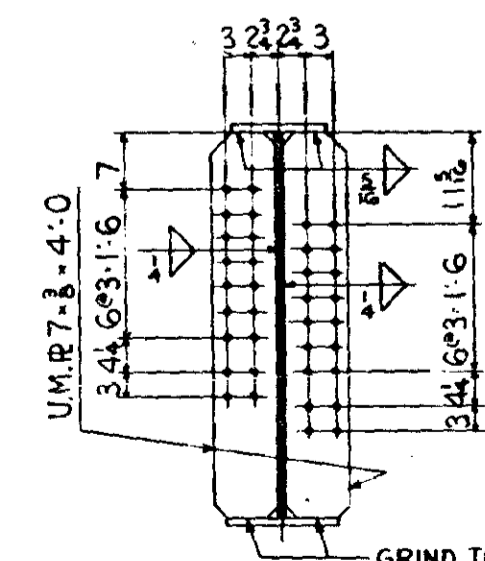
SECT. B-B



SECT. C-C

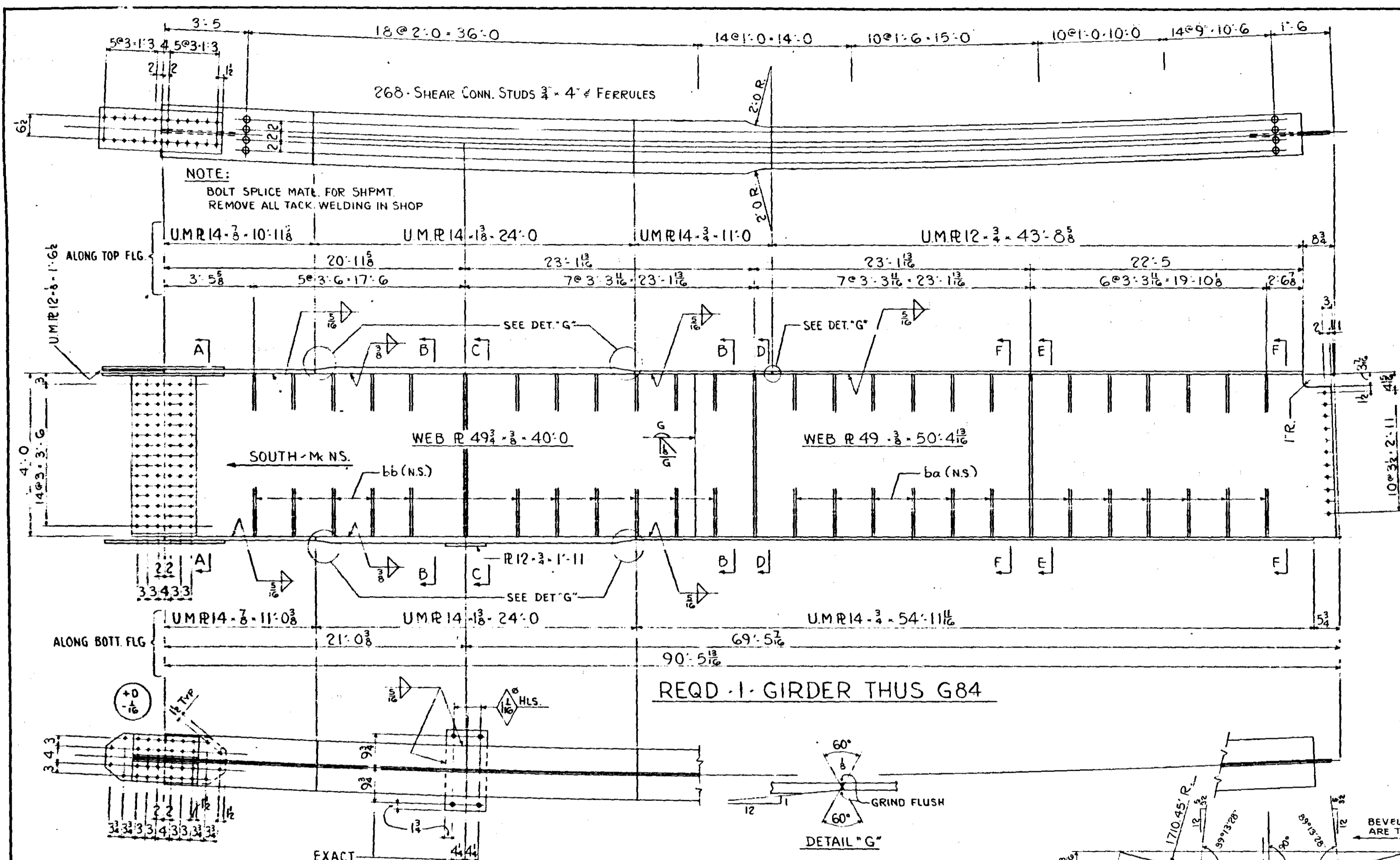


SECT. D-D

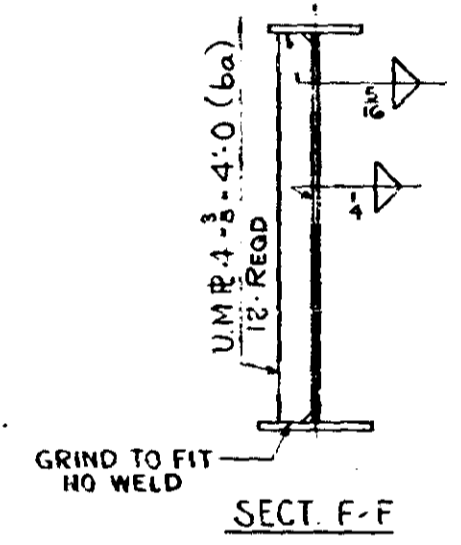
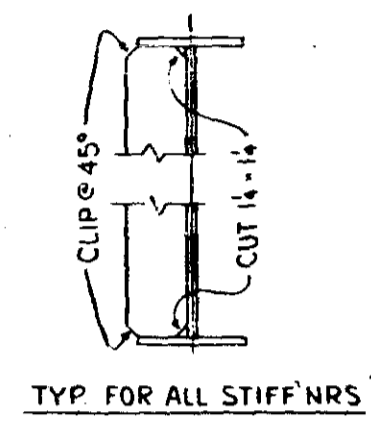


SECT. E-E

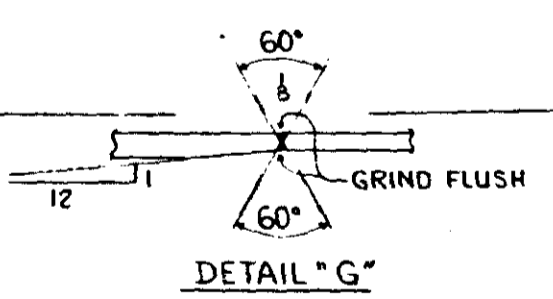
MINN. PROJ. NO. 1-IG 35W-3(58) 112
 S.P. NO. 2783-9340B (T.H. 35W-394)
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.
 GIRDER DETAIL
 Structure: M.H.D. BRIDGE No. 9340
 Location: MPLS., MINN.
 Contractor: INDUSTRIAL CONSTR. CO.
 Made by: W.E.S. Checked by: RP
 Date: 4-29-66 Shop: 4-29-66
 ORDER NO. 32647 DRAWING NO. 53
 POUND 15-001



NOTE:
BOLT SPLICE MATR. FOR SHPMT.
REMOVE ALL TACK WELDING IN SHOP

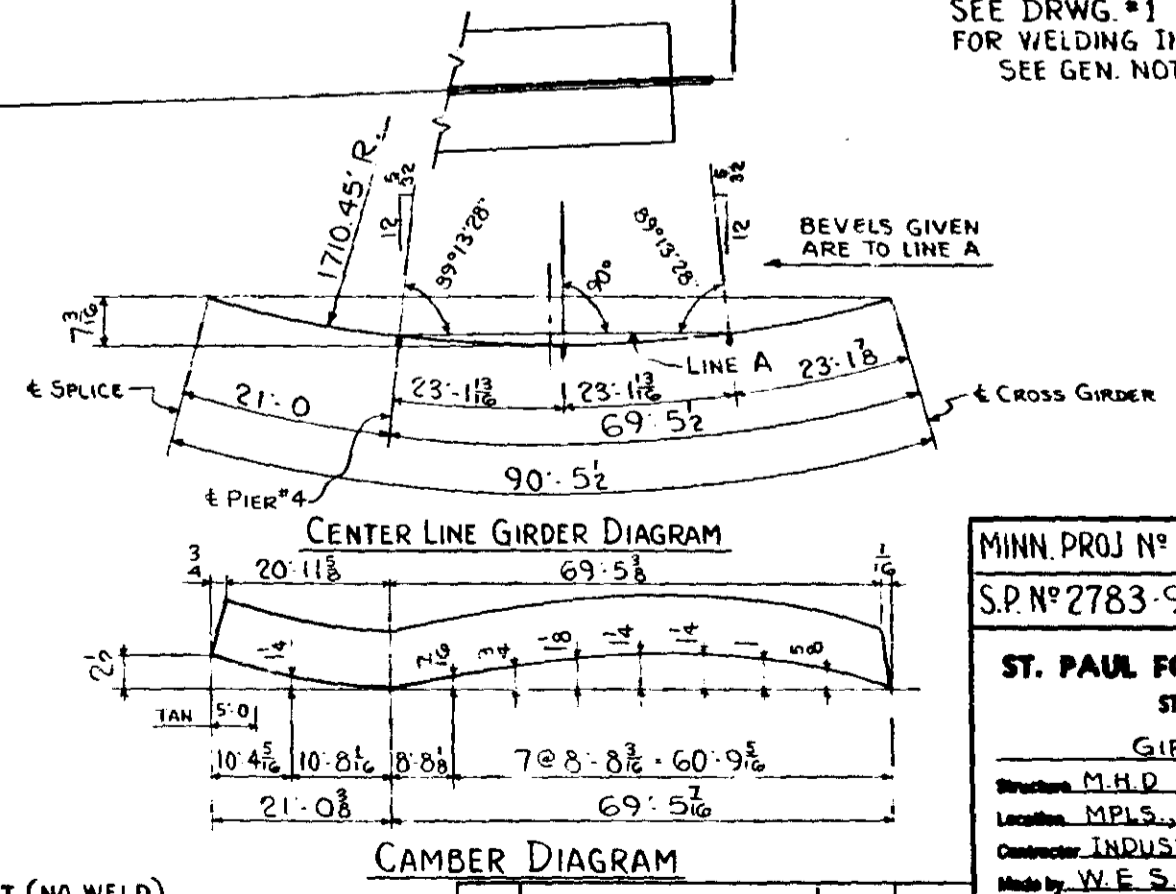
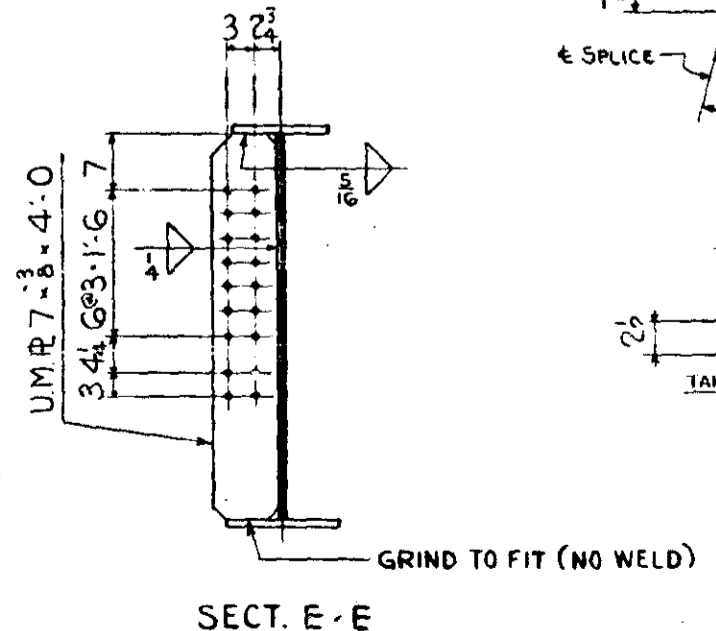
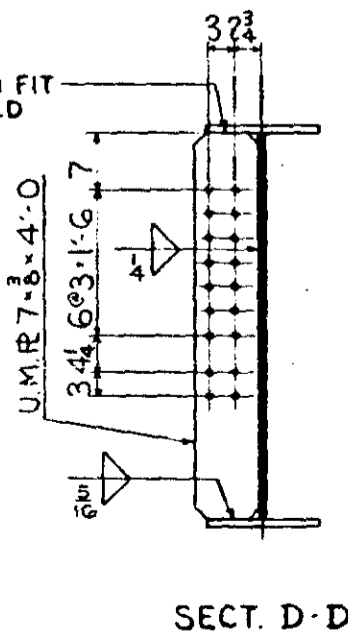
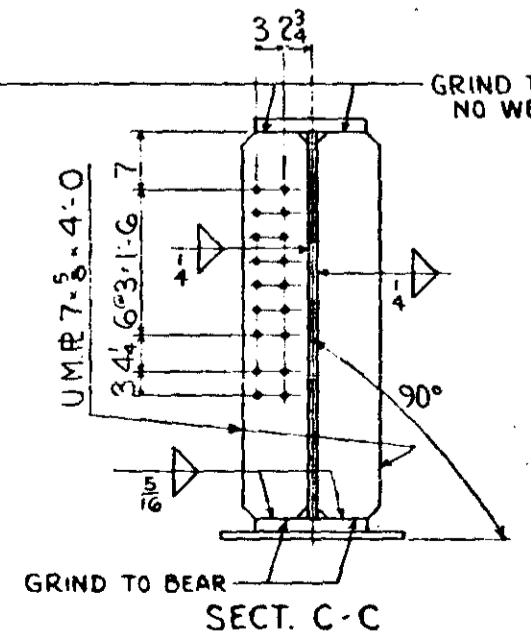
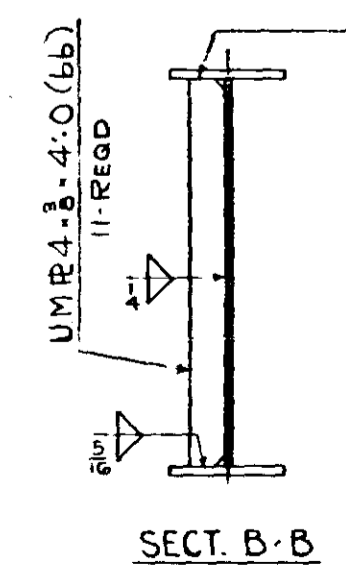
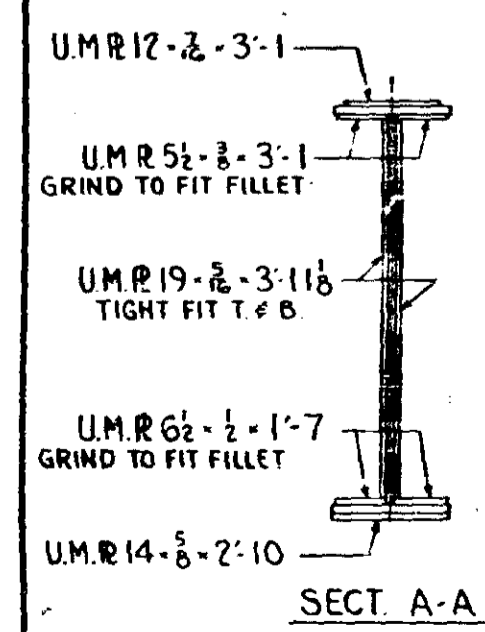


REQD - 1 GIRDER THUS G84



SHOP NOTE:
SEE DRWG. #1

GEN NOTES:
SEE DRWG. #1
FOR WELDING INSPECTION
SEE GEN. NOTES

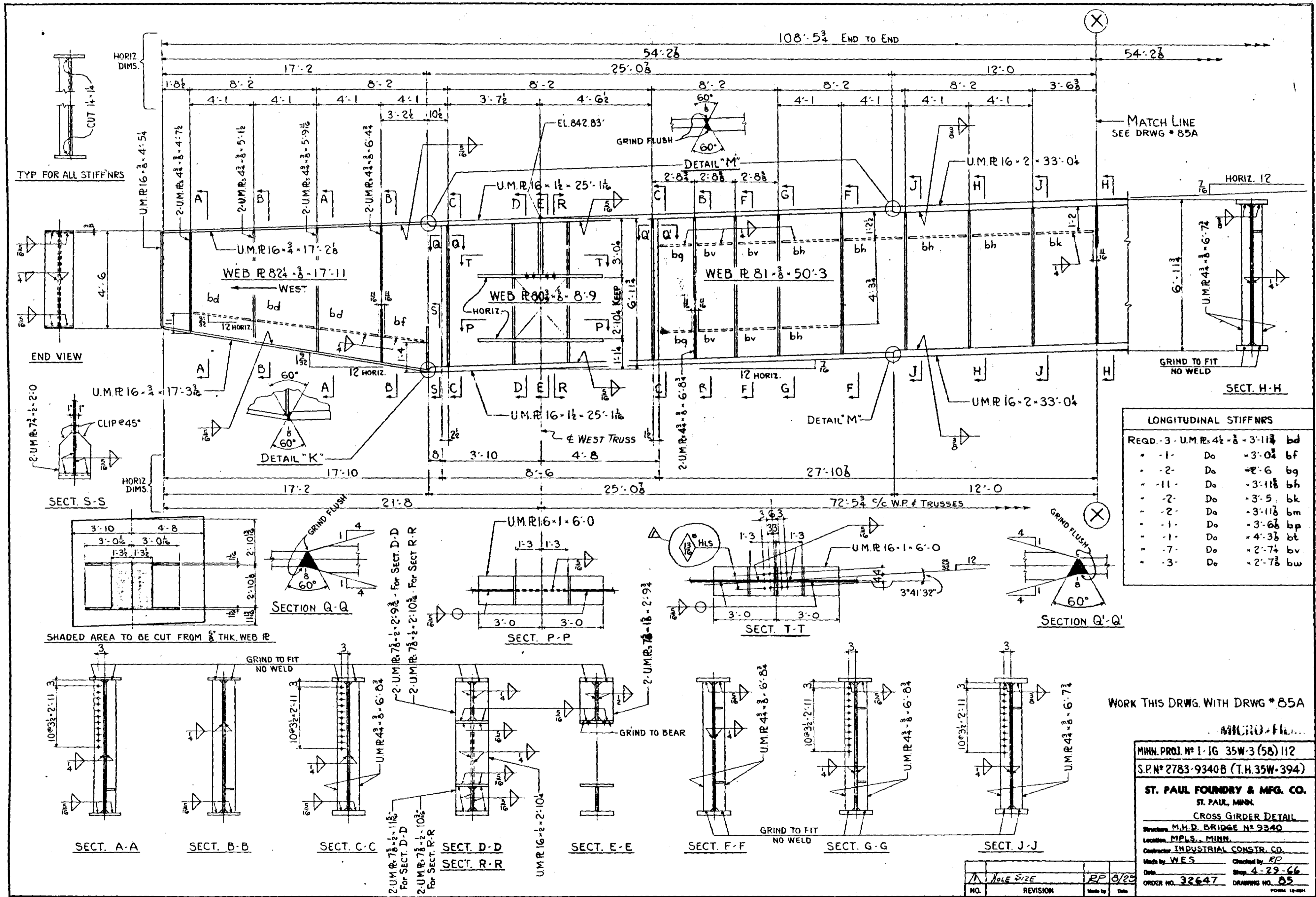


MINN. PROJ. N° I-IG 35W-3(58) 112
S.P. N° 2783-9340B (T.H. 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

GIRDER DETAIL
Structure: M.H.D. BRIDGE N° 9340
Location: MPLS., MINN.
Contractor: INDUSTRIAL CONSTR. CO.
Made by: W.E.S. Checked by: RP
Date: 4-29-66 Shop: 4-29-66
ORDER NO. 32647 DRAWING NO. 84

NO.	REVISION	Made by	Date



LONGITUDINAL STIFFNRS

REQD. - 3	UM R 4 1/2 - 3 - 11 3/8	bd
- 1 -	Do	- 3 - 0 3/4 bf
- 2 -	Do	- 3 - 6 bg
- 11 -	Do	- 3 - 11 bh
- 2 -	Do	- 3 - 5 bk
- 2 -	Do	- 3 - 11 1/2 bm
- 1 -	Do	- 4 - 3 1/2 bn
- 1 -	Do	- 4 - 3 1/2 bp
- 7 -	Do	- 2 - 7/8 bq
- 3 -	Do	- 2 - 7/8 br

WORK THIS DRWG. WITH DRWG # 85A

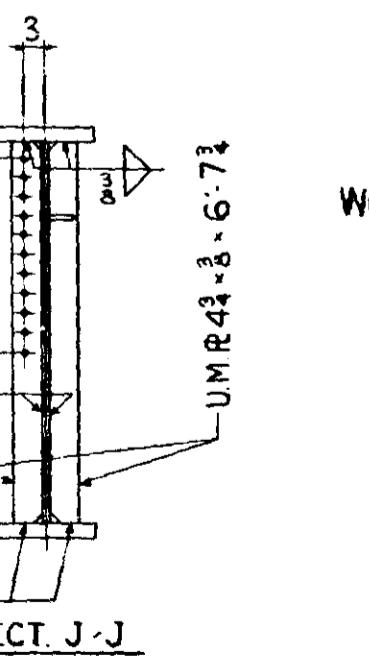
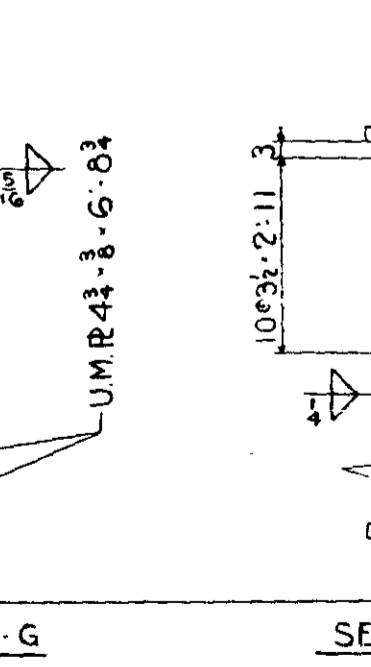
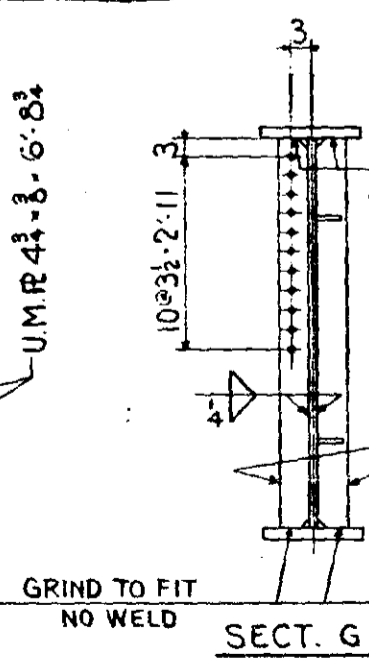
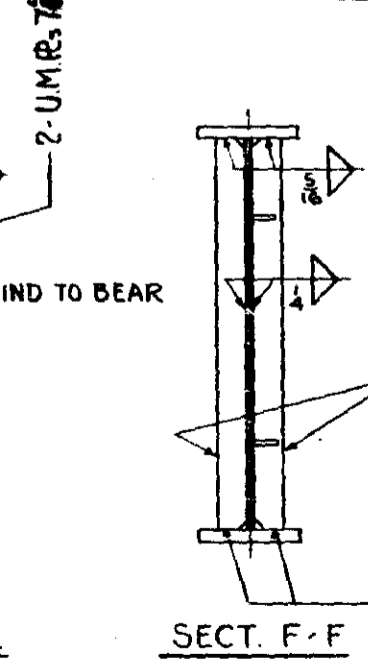
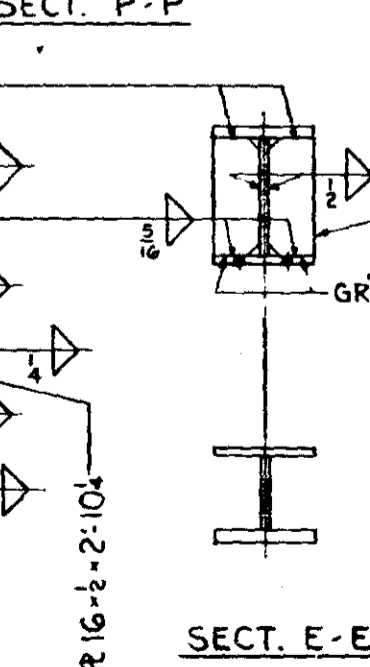
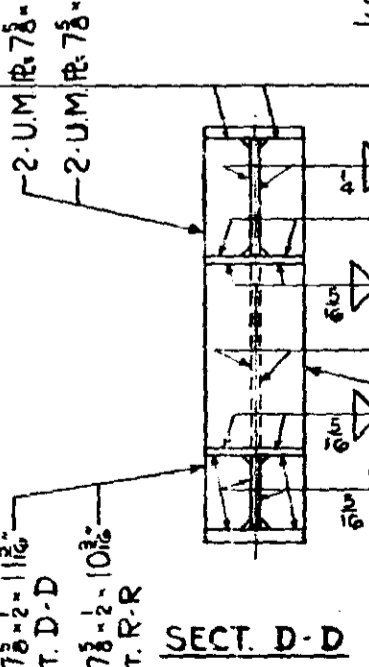
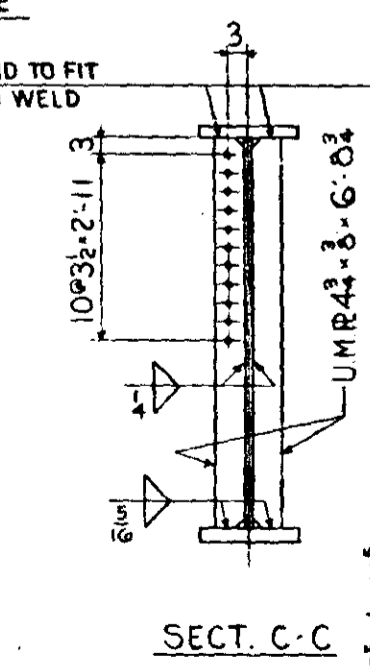
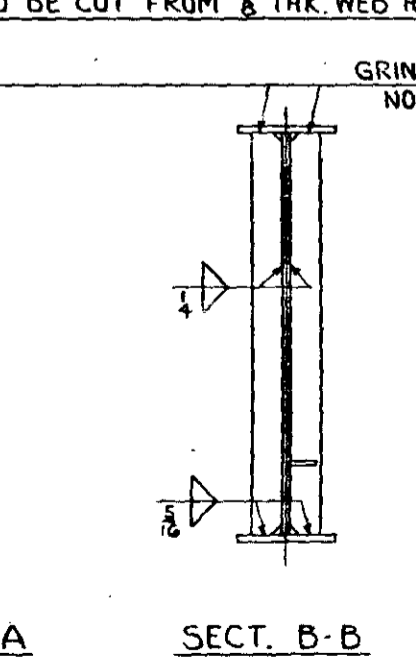
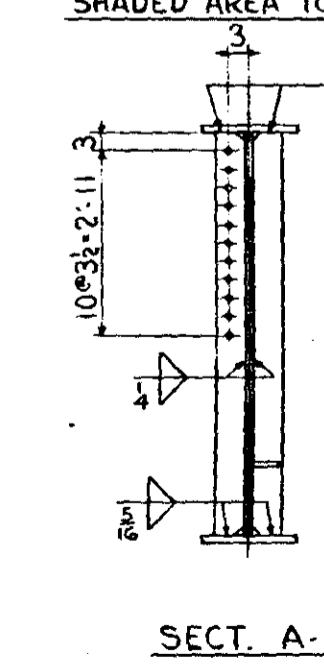
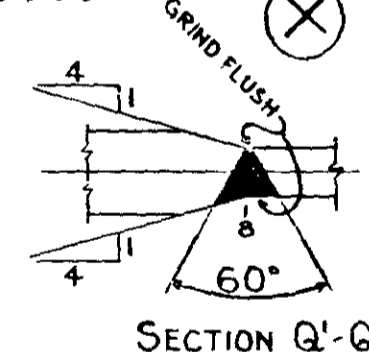
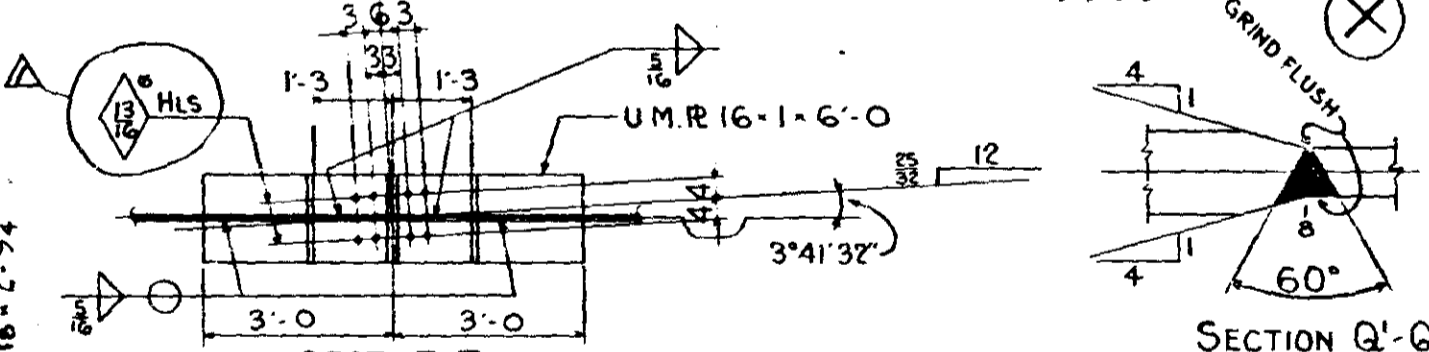
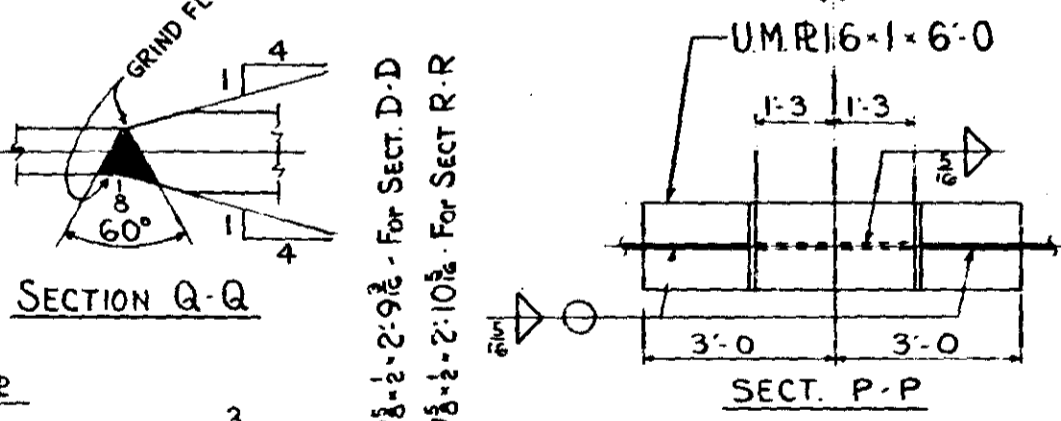
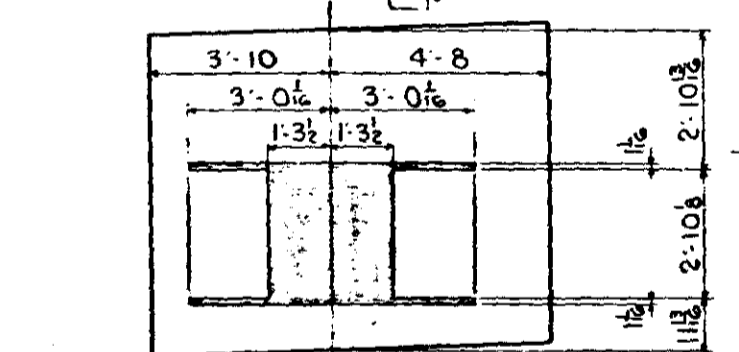
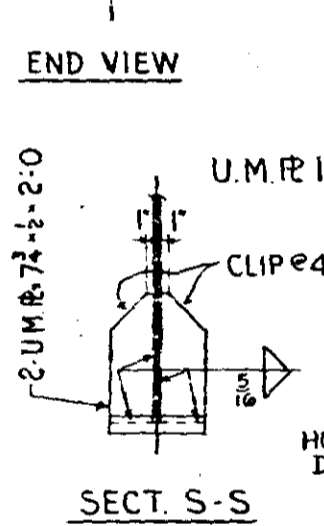
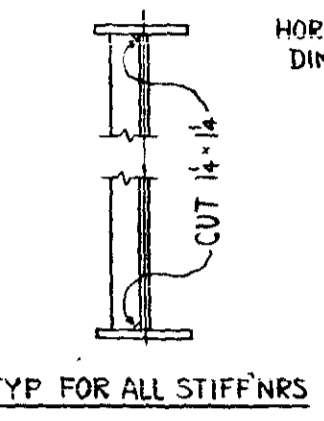
MICRO-FLUX

MINN. PROJ. NO 1-IG 35W-3(58)112
 S.P.N# 2783-9340B (T.H.35W-394)

ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.
 CROSS GIRDER DETAIL

Structure: M.H.D. BRIDGE # 9340
 Location: MPLS., MINN.
 Contractor: INDUSTRIAL CONSTR. CO.
 Made by: W.E.S. Checked by: RP
 Date: 4-29-66 Shop: 4-29-66
 ORDER NO. 32647 DRAWING NO. 85

NO.	REVISION	Made by	Date
		RP	6/29



2-UM R 7 1/2 - 2 - 11 3/8
 For SECT. D-D

2-UM R 7 1/2 - 2 - 10 3/8
 For SECT. R-R

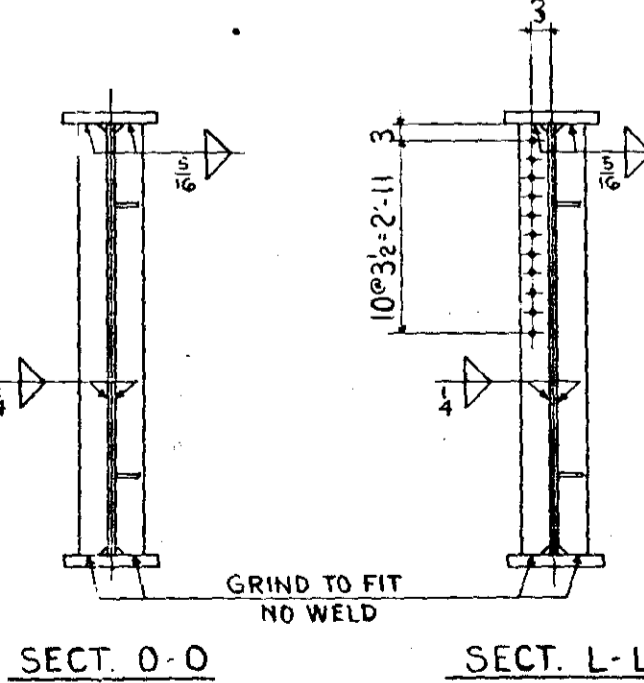
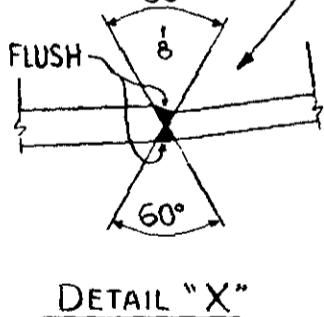
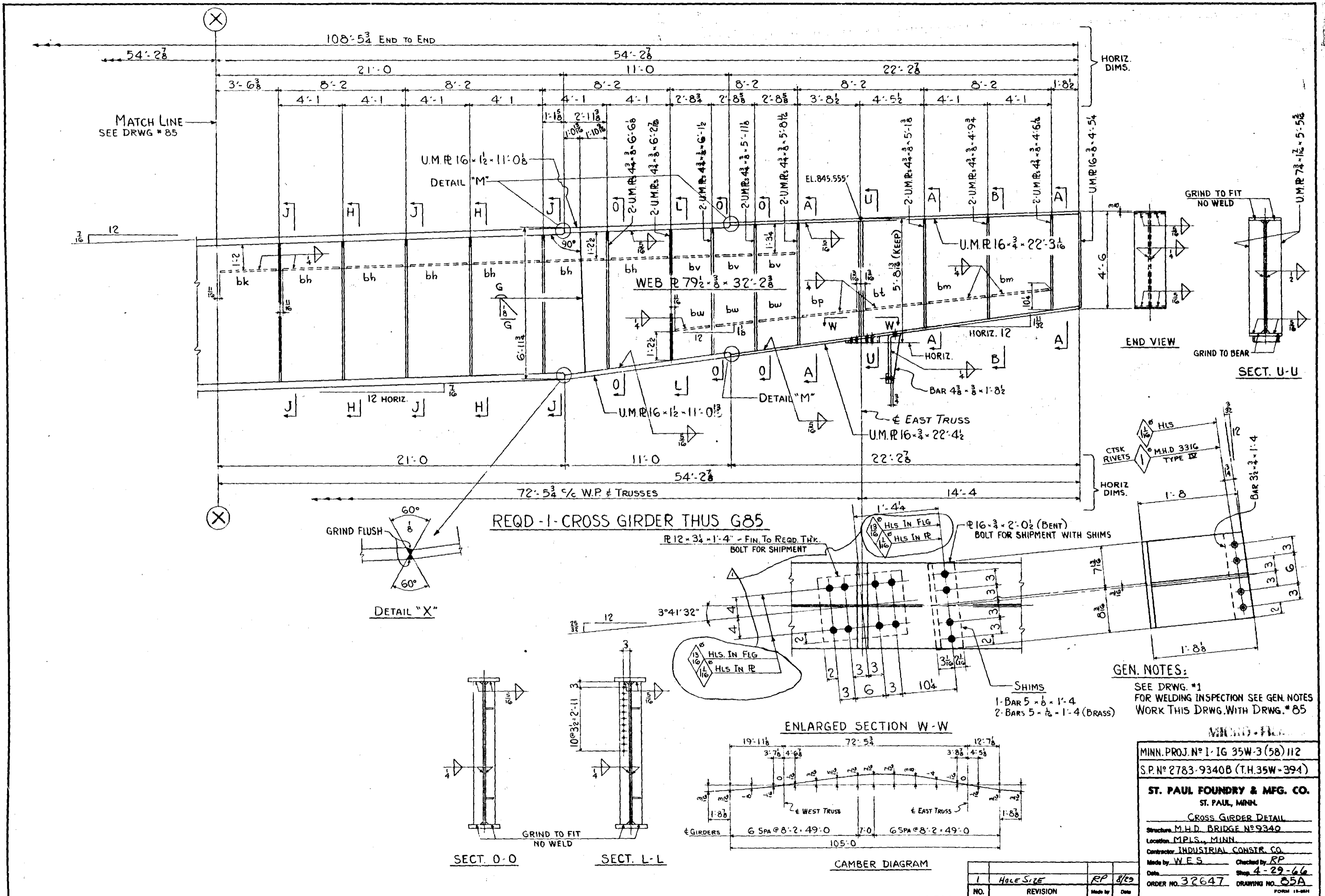
UM R 16 - 2 - 2 - 10 3/8

2-UM R 7 1/2 - 2 - 9 1/2 - For SECT. D-D

2-UM R 7 1/2 - 2 - 10 1/8 - For SECT. R-R

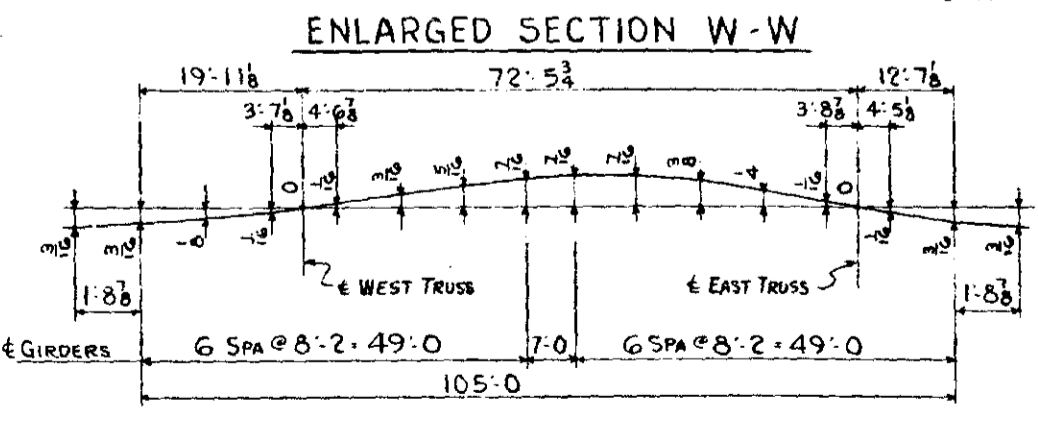
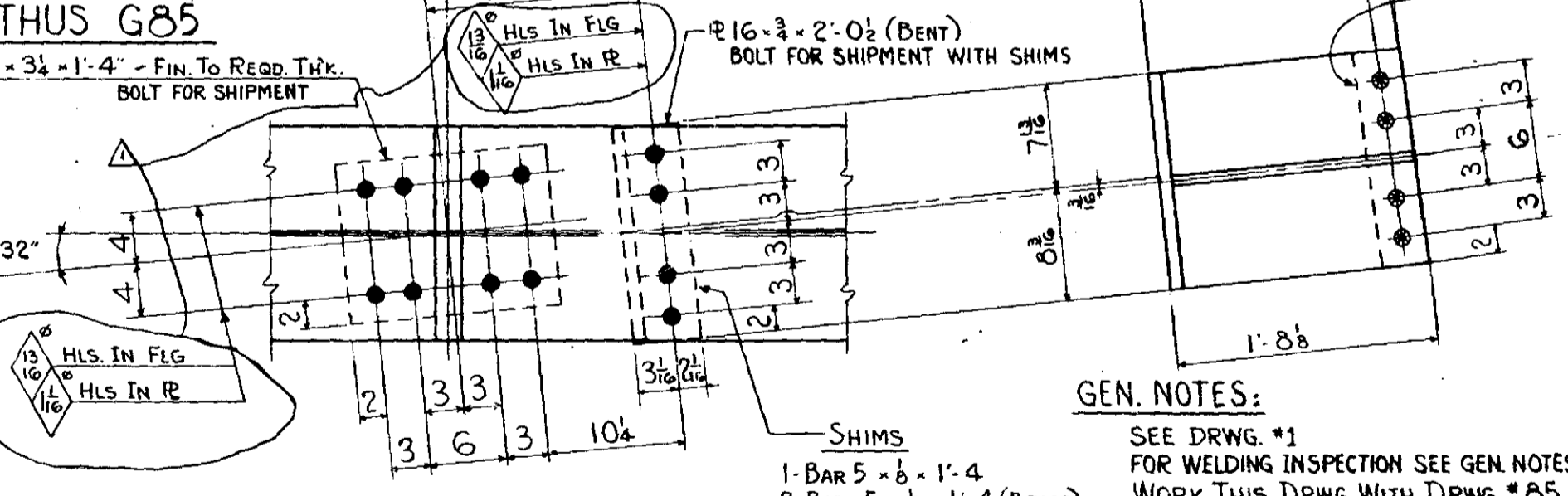
2-UM R 7 1/2 - 2 - 9 1/2 - For SECT. D-D

2-UM R 7 1/2 - 2 - 10 1/8 - For SECT. R-R



REQD - 1 - CROSS GIRDER THUS G85

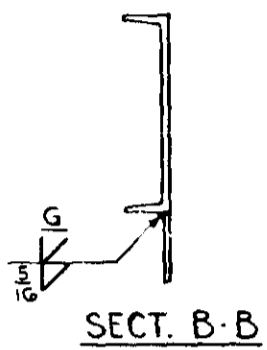
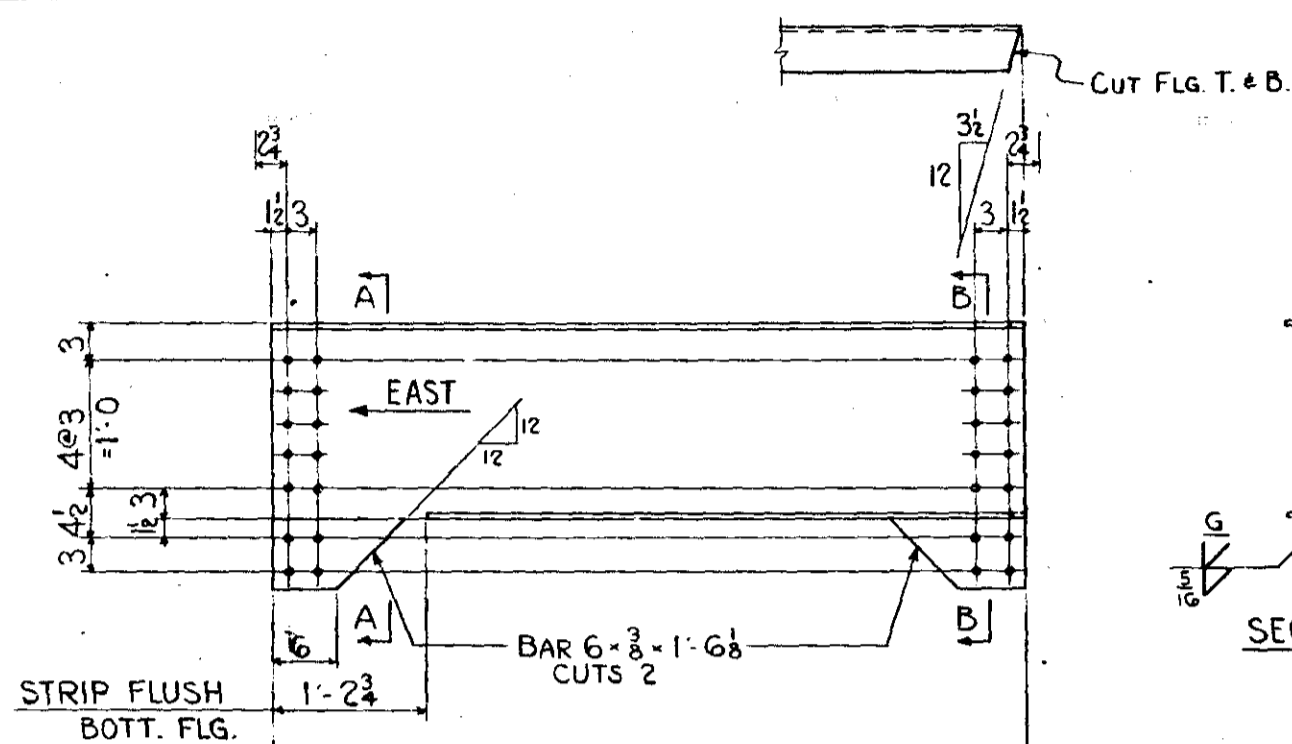
R 12 x 3 1/4 x 1 - 4" - FIN. TO REQD. THK. BOLT FOR SHIPMENT



GEN. NOTES:
 SEE DRWG. #1 FOR WELDING INSPECTION SEE GEN. NOTES WORK THIS DRWG. WITH DRWG. #85

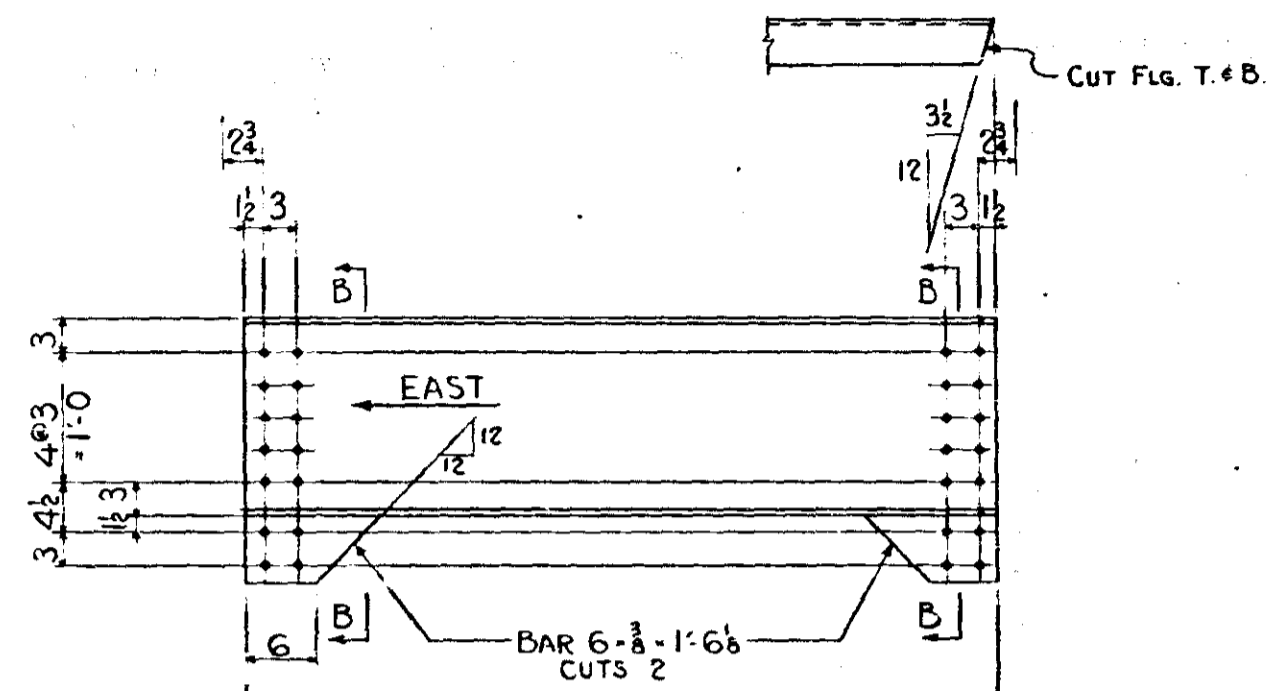
MINN. PROJ. NO. I-IG 35W-3 (58) 112	
S.P. NO. 2783-9340B (T.H. 35W-394)	
ST. PAUL FOUNDRY & MFG. CO. ST. PAUL, MINN.	
CROSS GIRDER DETAIL	
Structure M.H.D. BRIDGE #9340	
Location MPLS., MINN.	
Contractor INDUSTRIAL CONSTR. CO.	
Made by W.E.S.	Checked by R.P.
Date 4-29-66	Shop 4-29-66
ORDER NO. 32647	DRAWING NO. 85A
NO.	REVISION
	Made by Date

1	1	Hole Size	RP	8/69
NO.		REVISION	Made by	Date



18	[42.7 x 8'-3 5/8"	2-REQD	D1
"	x 8'-3 3/8"	1- "	D2
"	x 8'-3 7/16"	2- "	D3
"	x 8'-3 1/2"	1- "	D4
"	x 8'-3 5/8"	1- "	D5
"	x 8'-3 5/8"	2- "	D6
"	x 8'-3 11/16"	1- "	D7
"	x 8'-3 3/4"	2- "	D8
"	x 8'-2 3/4"	2- "	D9
"	x 8'-2 13/16"	2- "	D10
"	x 8'-2 1/2"	1- "	D12
"	x 8'-3	2- "	D13
"	x 8'-3 1/8"	2- "	D14
"	x 8'-3 1/4"	1- "	D15

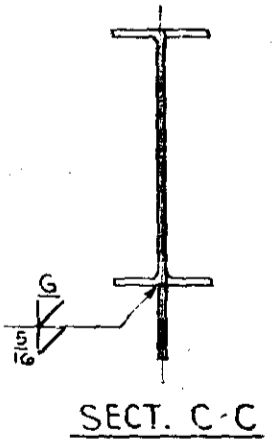
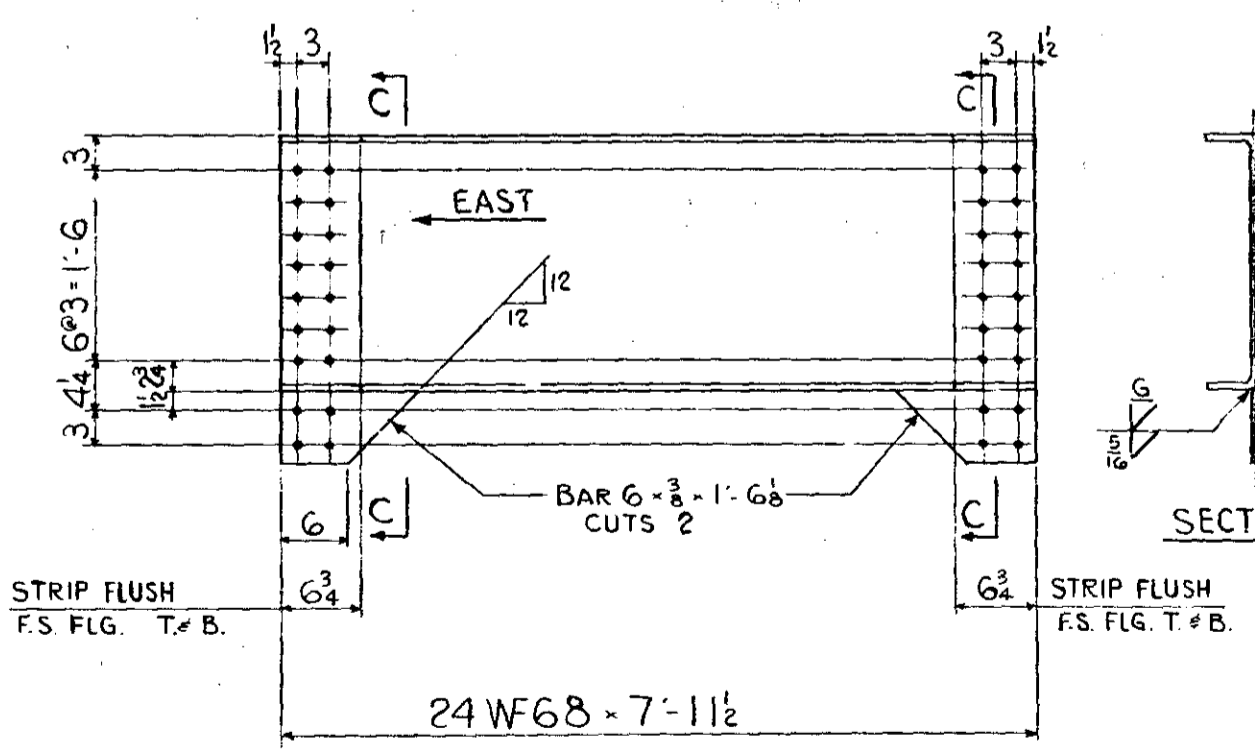
SECT. A-A



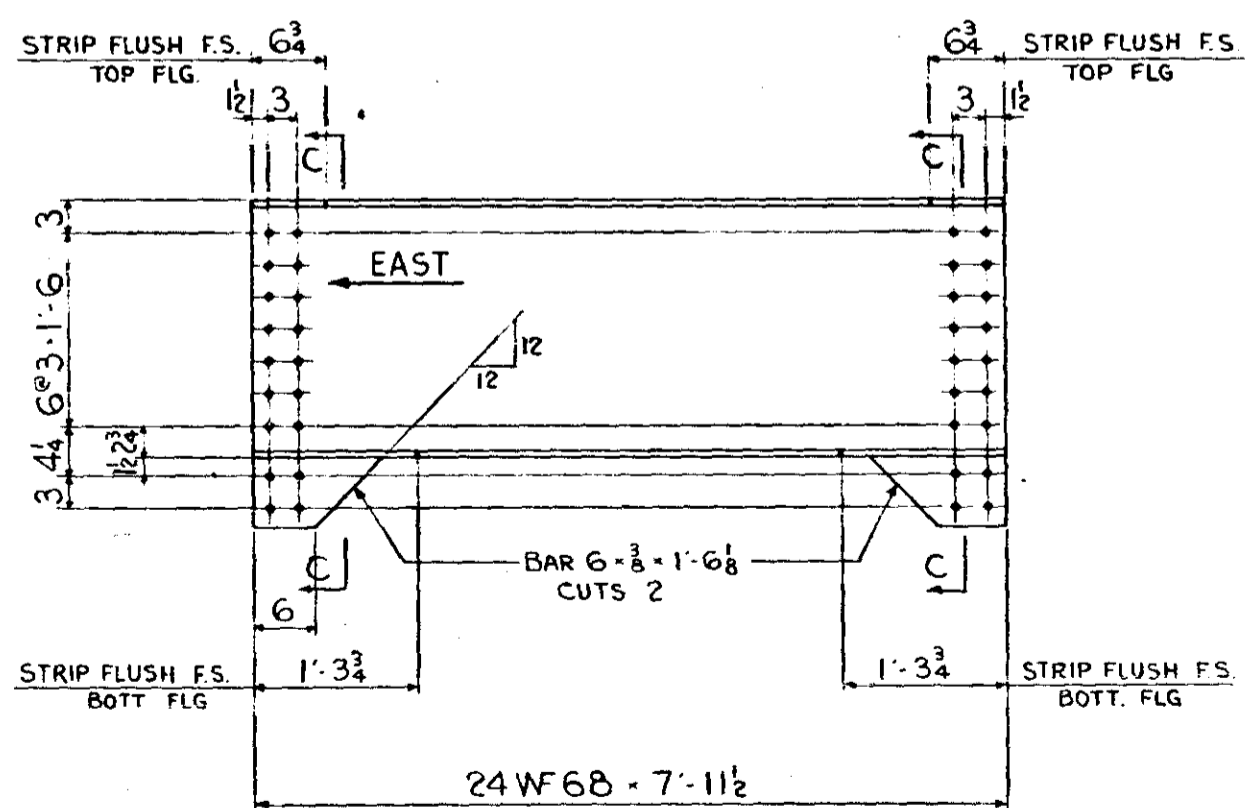
18	[42.7 x 8'-3 3/8"	3-REQD	D16
"	x 8'-3 3/8"	4- "	D17
"	x 8'-3 1/4"	4- "	D18
"	x 8'-3 7/16"	2- "	D19
"	x 8'-3 3/8"	2- "	D20
"	x 8'-3 7/16"	1- "	D21
"	x 8'-3 1/2"	2- "	D22
"	x 8'-2 13/16"	2- "	D23
"	x 8'-3	2- "	D24
"	x 8'-3 1/8"	2- "	D25
"	x 8'-2 3/4"	2- "	D26
"	x 8'-2 1/2"	1- "	D27
"	x 8'-2 7/16"	4- "	D28
"	x 8'-2 3/8"	3- "	D29
"	x 8'-2 5/16"	2- "	D30
"	x 8'-2 3/16"	6- "	D31
"	x 8'-2 1/8"	4- "	D32
"	x 8'-2 1/4"	2- "	D33

GEN. NOTES:

SEE DRWG #1 FOR WELDING INSPECTION. SEE GEN. NOTES INTERIOR & RE-ENTRANT CORNERS SHALL BE SMOOTHLY FILLETED TO 1" RADIUS, M.H.D. SPECS. 2471.3C5



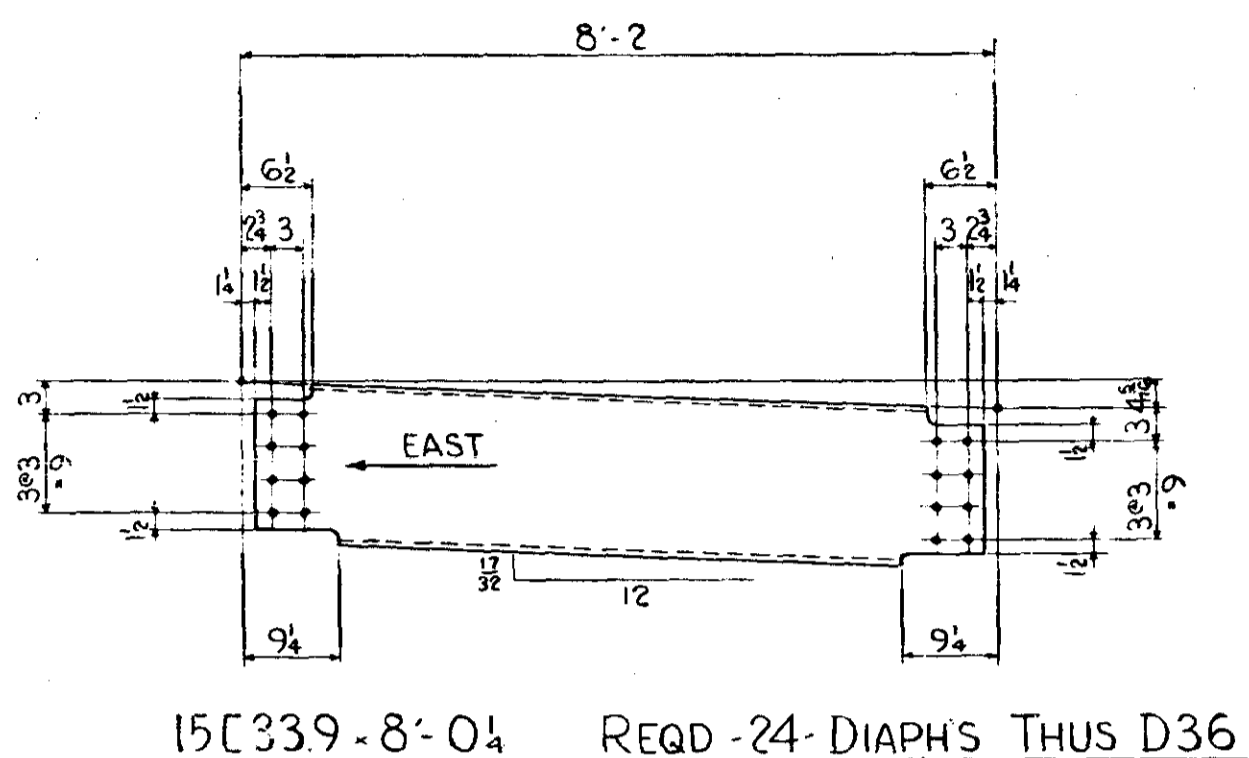
REQD -120- DIAPHS THUS D34



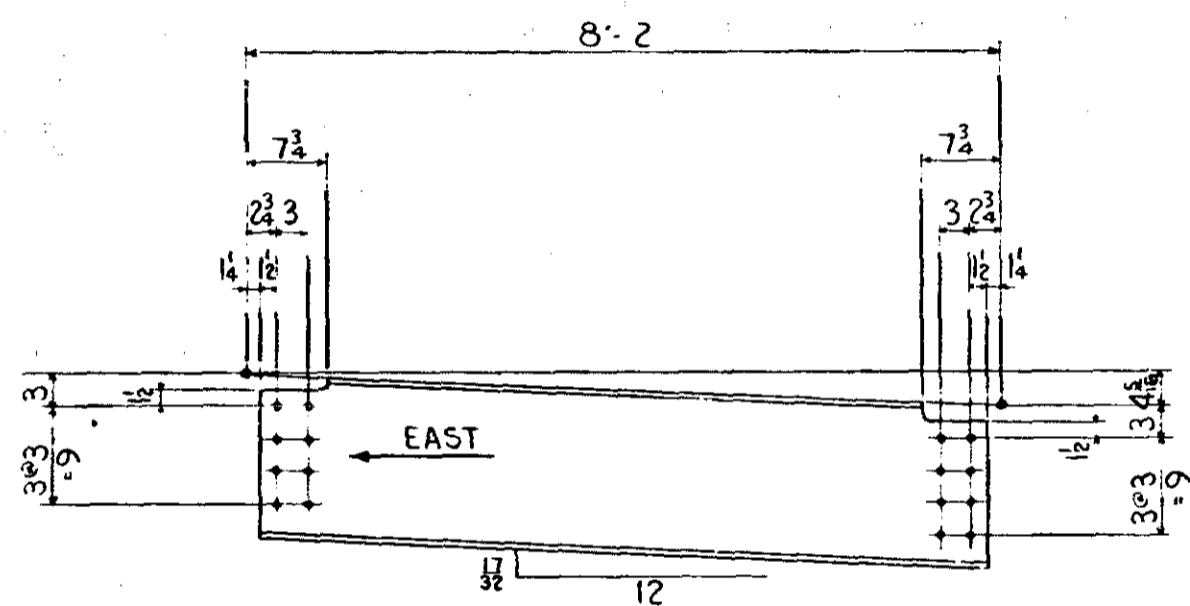
REQD -36- DIAPHS THUS D35

MINN. PROJ #1-IG 35W-3(58) 112
 S.P.N#2783-9340B (T.H.35W-394)
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.
 DIAPHRAGM DETAILS
 Structure M.H.D. BRIDGE #9340
 Location MPLS., MINN.
 Contractor INDUSTRIAL CONSTR. CO.
 Made by WES Checked by RP
 Date 4-29-66
 ORDER NO. 32647 DRAWING NO. 86

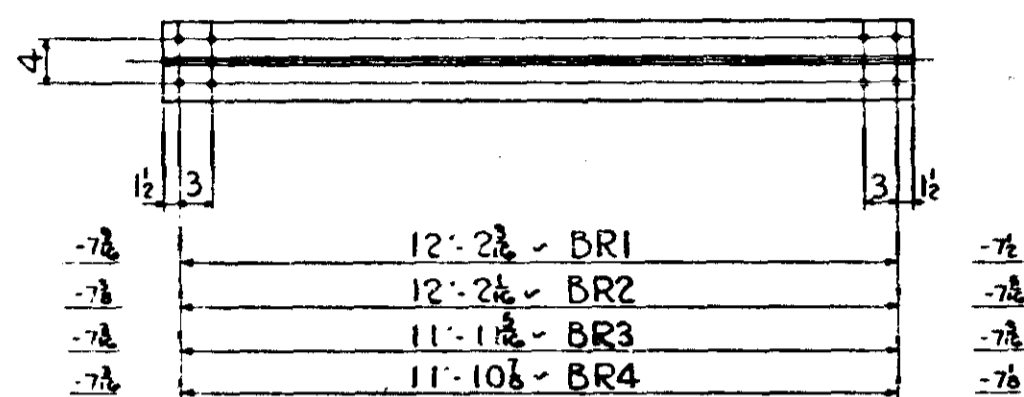
NO.	REVISION	Made by	Date



15[339-8'-0 1/4] REQD -24- DIAPH'S THUS D36



15[339-8'-0 1/4] REQD -24- DIAPH'S THUS D37



ST 6WF135 - 12'-5 1/2" REQD -1- THUS BR1

Do	12'-5 1/2"	-1-	BR2
Do	12'-2 1/2"	-1-	BR3
Do	12'-1 1/2"	-1-	BR4

THE FOLLOWING RIVETS TO HAVE MANUFACTURED HEADS
AS PER M.H.D. 3316 TYPE I
FOR LOCATION SEE SHEETS EF1, EF2, & EF3

REQD	1600	RIVETS	3/8" x 2 1/2" (GRIP 3)
"	4500	"	" x 2 1/2" (" 1 1/2")
"	4300	"	" x 2 1/2" (" 1)
"	1800	"	" x 2 1/2" (" 1 1/2")
"	110	"	" x 2 1/2" (" 1 1/2")
"	1070	"	" x 3 (" 1 1/2")
"	185	"	" x 3 1/2 (" 1 1/2")
"	135	"	" x 3 1/2 (" 1 1/2")
"	340	"	" x 3 1/2 (" 1 1/2")
"	425	"	" x 3 3/8 (" 1 1/2")
"	935	"	" x 3 3/8 (" 2)
"	370	"	" x 3 3/8 (" 2 1/2")
"	200	"	" x 4 (" 2 1/2")
"	270	"	" x 4 1/2 (" 2 1/2")
"	90	"	" x 4 1/2 (" 2 1/2")
"	15	"	" x 4 1/2 (" 2 1/2")
"	265	"	" x 5 (" 3 1/2")
"	310	"	" x 5 1/2 (" 3 1/2")
"	55	"	" x 5 1/2 (" 3 1/2")

REQD	10	RIVETS	1 1/2" x 6" (GRIP 4)
"	2	"	" x 6 1/2 (" 4 1/2")
"	2	"	" x 6 3/8 (" 4 1/2")
"	2	"	" x 6 1/2 (" 4 1/2")
"	2	"	" x 6 3/8 (" 4 1/2")
"	2	"	" x 7 1/2 (" 5 1/2")
"	2	"	" x 7 3/8 (" 5 1/2")
"	2	"	" x 7 1/2 (" 5 1/2")
"	2	"	" x 8 (" 5 1/2")

HIGH STRENGTH BOLTS AS PER M.H.D. 3391B STYLE II
FOR LOCATION SEE SHEET EF3

REQD - 355 - BOLTS 3/8" x 2 1/2" (GRIP 1 1/2")
AS PER ASTM A-325 HVY. HEX STRUCT. BOLT
WITH HVY. HEX NUT

REQD 355 CARBURIZED WASHER (3/8" HOLE)

THE FOLLOWING RIVETS TO HAVE MANUFACTURED HEADS
AS PER M.H.D. 3316 TYPE IV
FOR LOCATION SEE SHEET EF3

REQD 10 RIVETS 1 1/2" x 3 1/4" (GRIP 1 1/2")

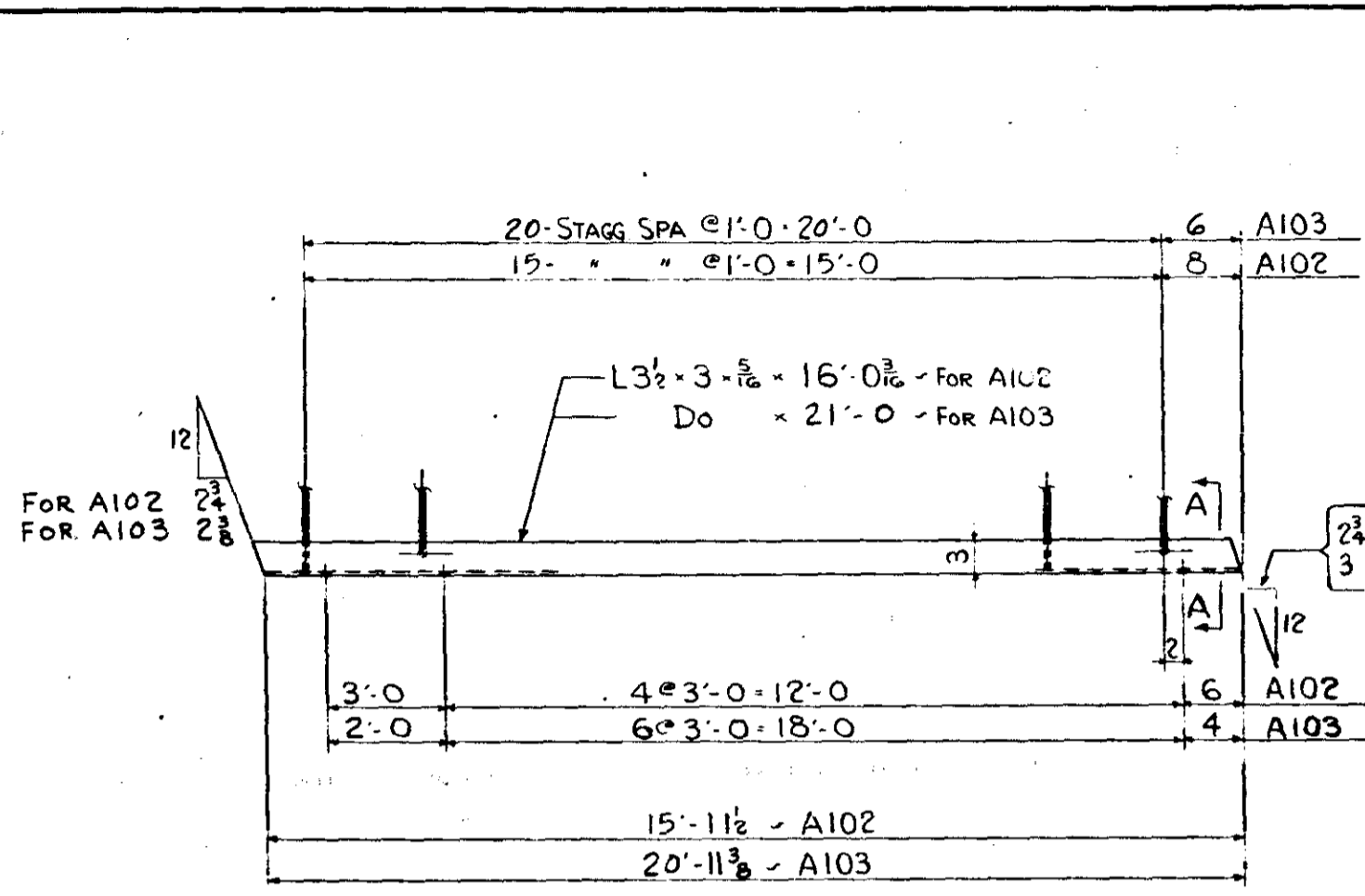
GEN. NOTES:
SEE DRWG. #1
FOR WELDING INSPECTION SEE GEN NOTES
INTERIOR & RE-ENTRANT CORNERS SHALL BE
SMOOTHLY FILLETED TO 1" RADIUS, M.H.D.
SPECS. 2471.3C5

NO.	REVISION	Made by	Date
△	RIVET QUANTITY	WES	10/19
△	ADD FIELD CONNS	WES	9/22/66

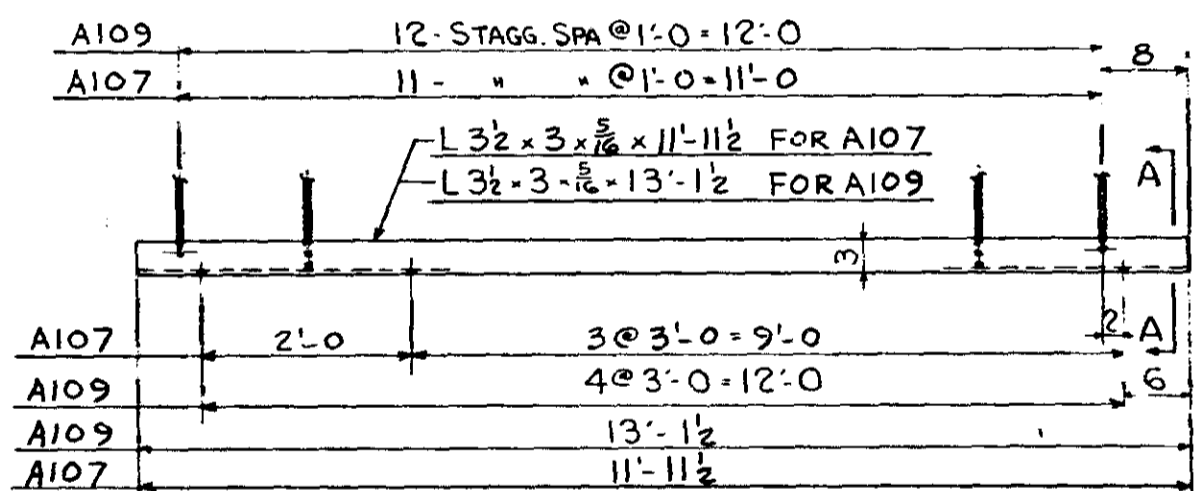
MINN. PROJ. N° I-IG 35W-3(58) 112
S.P.N° 2783-9340B (T.H.35W-394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

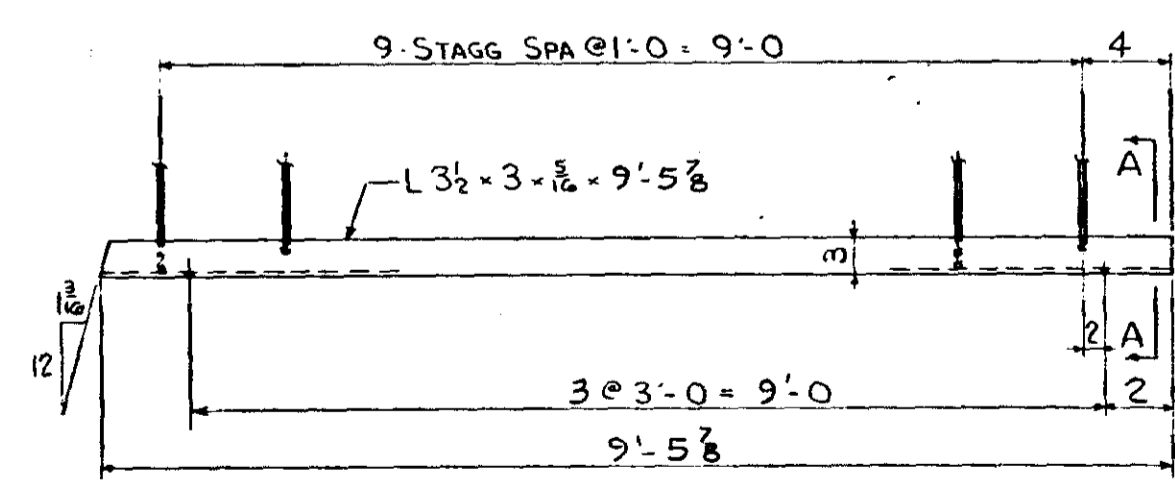
DIAPHRAGM & BRACING DETAILS
Structure M.H.D. BRIDGE N° 9340
Location MPLS., MINN.
Contractor INDUSTRIAL CONSTR. CO.
Made by WES Checked by RP
Date 4-29-66 Shop 4-29-66
ORDER NO. 32647 DRAWING NO. 87



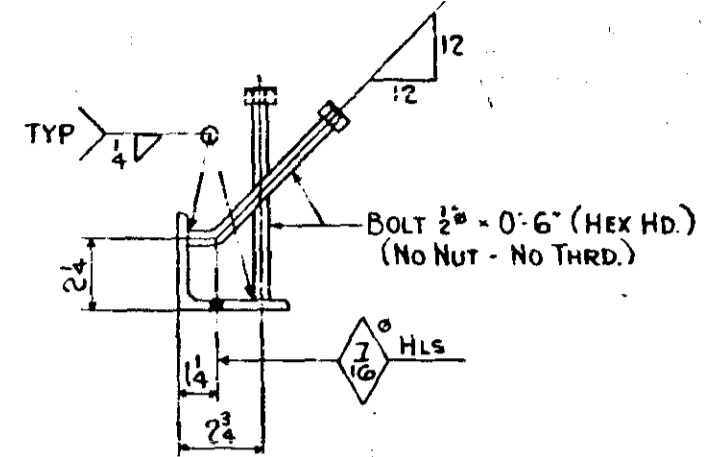
REQD. -2- PROTECTION ANGLES THUS A102
 " -1- " " " " A103



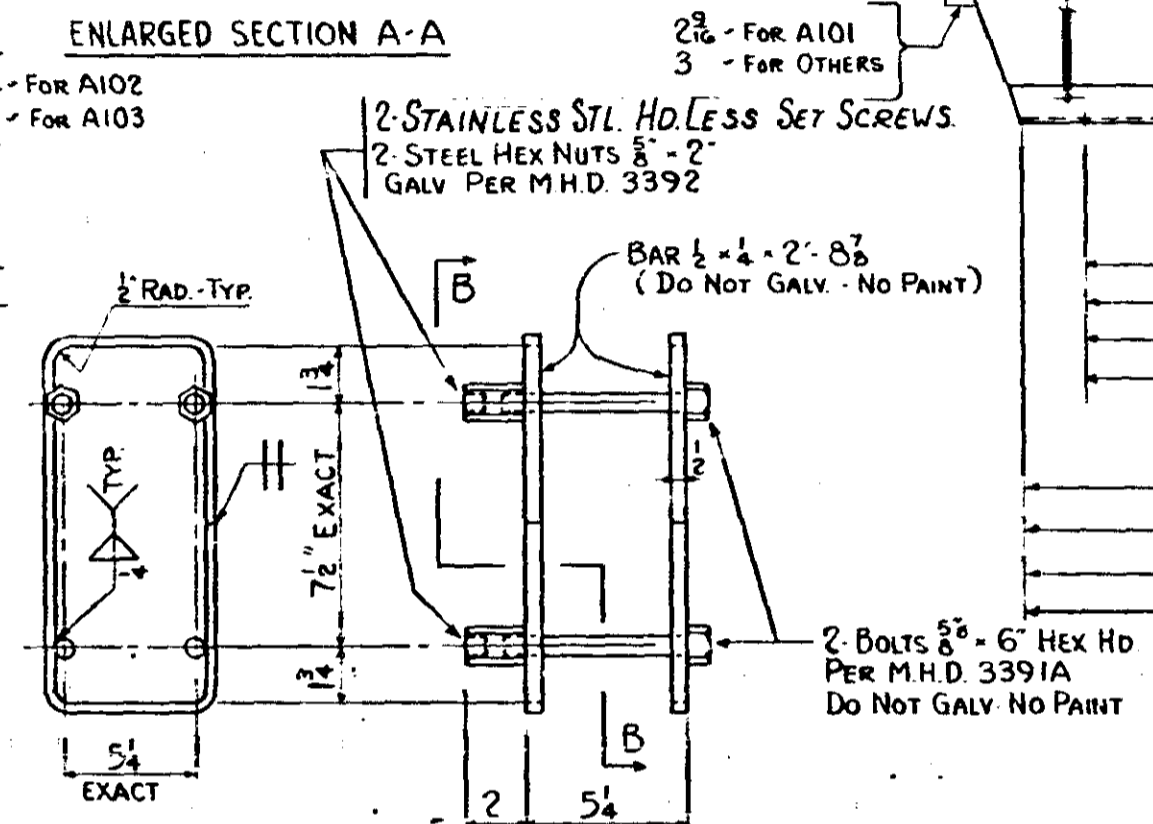
REQD. -2- PROTECTION ANGLES THUS A107
 " -1- " " " " ANGLE " A109



REQD. -1- PROTECTION ANGLE THUS A108

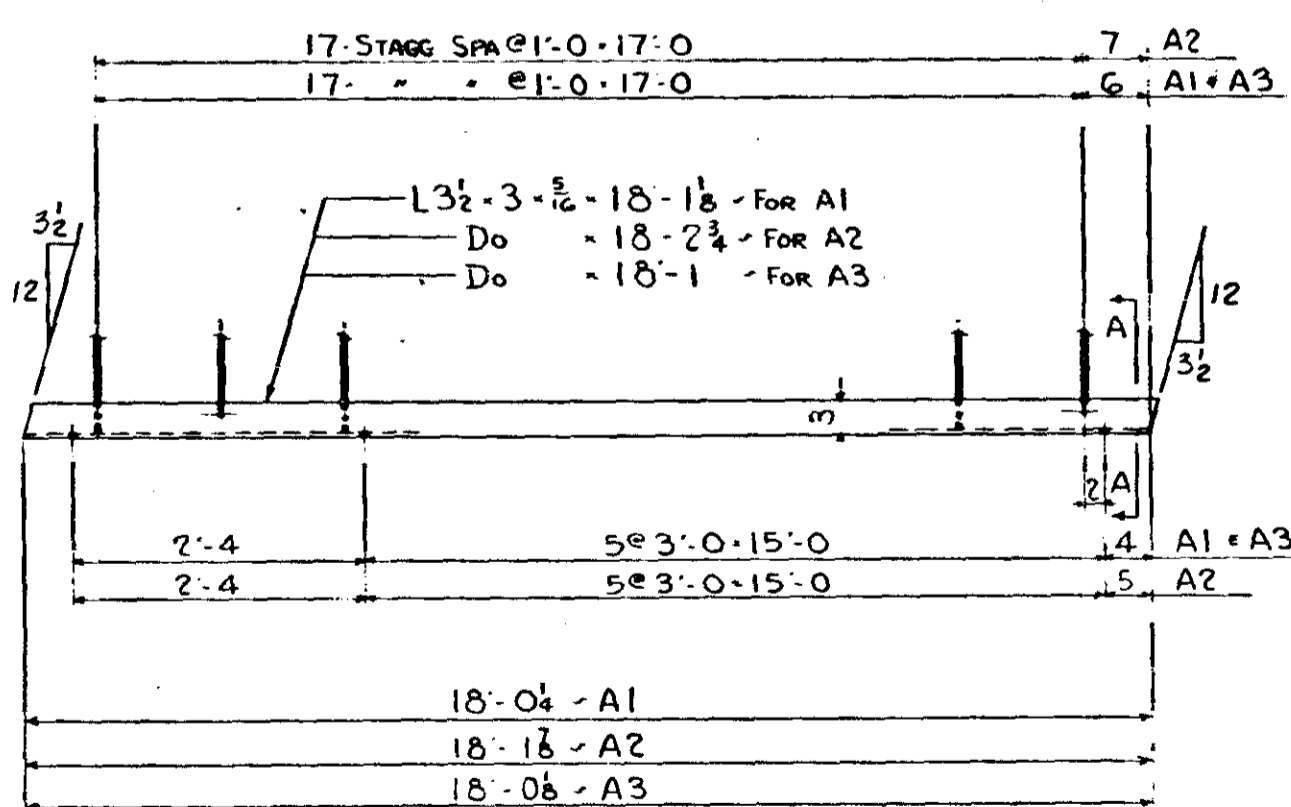


ENLARGED SECTION A-A



SECTION B-B

REQD. -6- FLEX BM. GUARD RAIL CONN THUS RCI
 (LOCATE AT ENDS OF RAILING)



REQD. -4- PROTECTION ANGLES THUS A1
 " -1- " " " " A2
 " -1- " " " " A3

20-STAGG. SPA @ 1'-0" = 20'-0"	6	A104
11- " " @ 1'-0" = 11'-0"	8	A105
18-STAGG. SPA @ 1'-0" = 18'-0"	8	A101
14- " " @ 1'-0" = 14'-0"	5	A106

L 3 1/2 x 3 x 5/16 = 18'-11 1/8" - FOR A101
 Do = 21'-0" - FOR A104
 Do = 12'-5" - FOR A105
 Do = 14'-9 3/8" - FOR A106

3'-0"	5 @ 3'-0" = 15'-0"	6	A101
2'-6"	3 @ 3'-0" = 9'-0"	6	A105
2'-0"	4 @ 3'-0" = 12'-0"	3	A106
2'-0"	6 @ 3'-0" = 18'-0"	4	A104

18'-11"	A101
12'-4 1/4"	A105
14'-8 3/8"	A106
20'-11 1/4"	A104

REQD. -1- PROTECTION ANGLE THUS A101
 " -1- " " " " A104
 " -1- " " " " A105
 " -1- " " " " A106

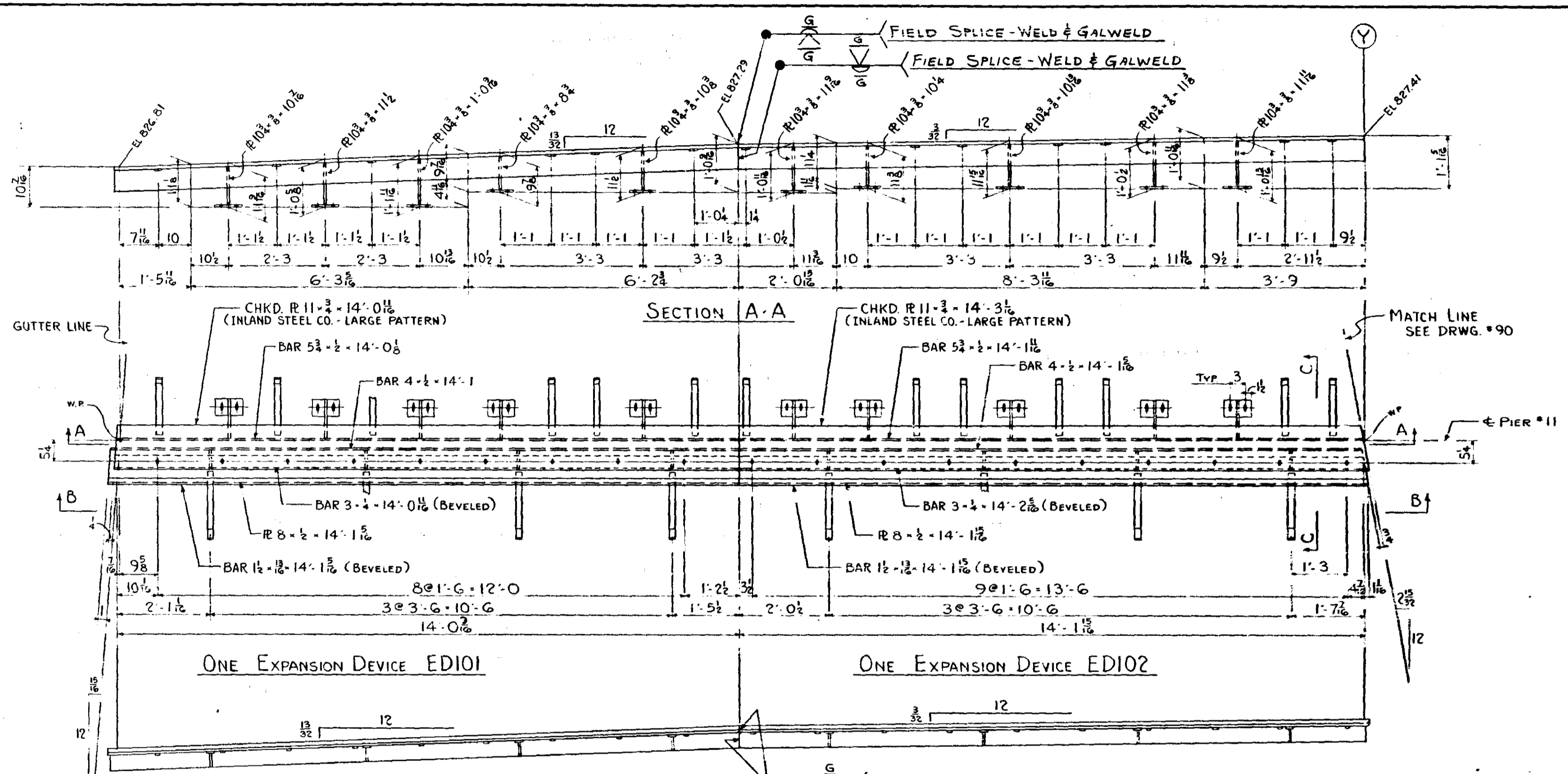
GEN. NOTES:
 HOLES AS NOTED
 STEEL AS PER M.H.D. 3305
 MATERIAL TO BE GALV. AFTER FABRICATION
 AS PER M.H.D. 3394 U.N.
 SHOP WORK & MATERIAL AS PER M.H.D. SPEC'S.
 DATED JAN. 1, 1964 & SPECIAL PROVISIONS
 SHOP INSPECTION BY M.H.D. BEFORE
 AND AFTER GALVANIZING.

MINN. PROJ. #1-IG 35W-3(58)112
 S.P. #2783-9340B(T.H. 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

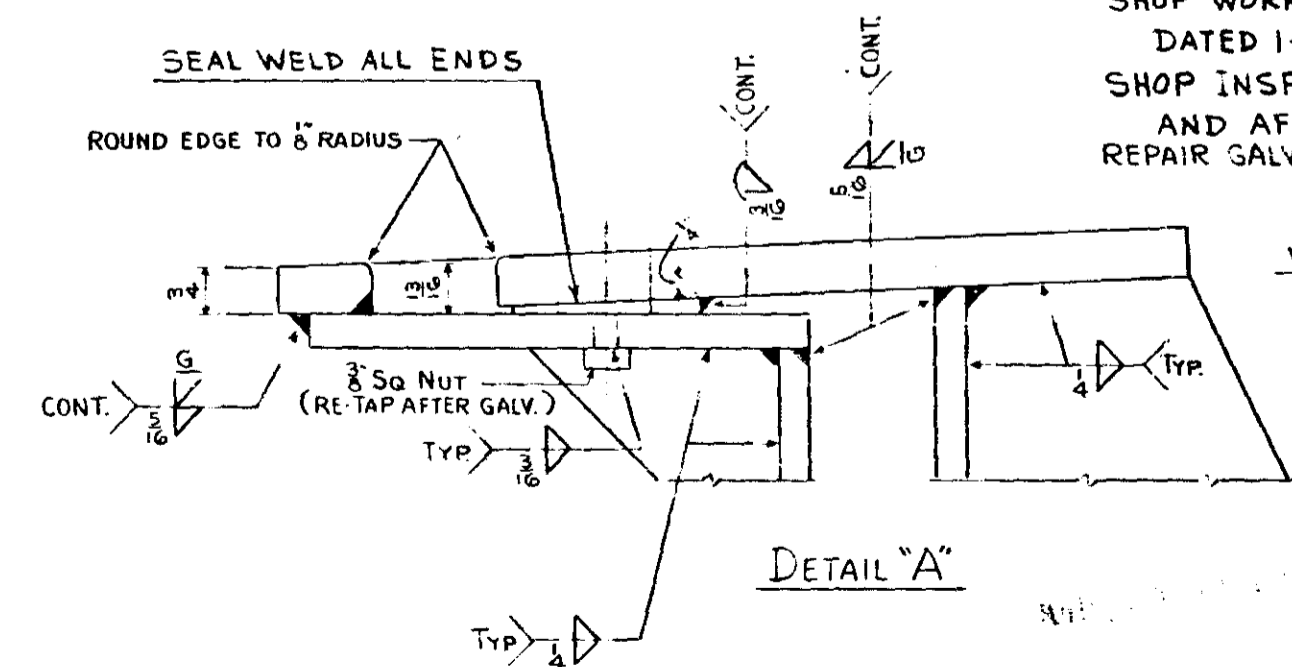
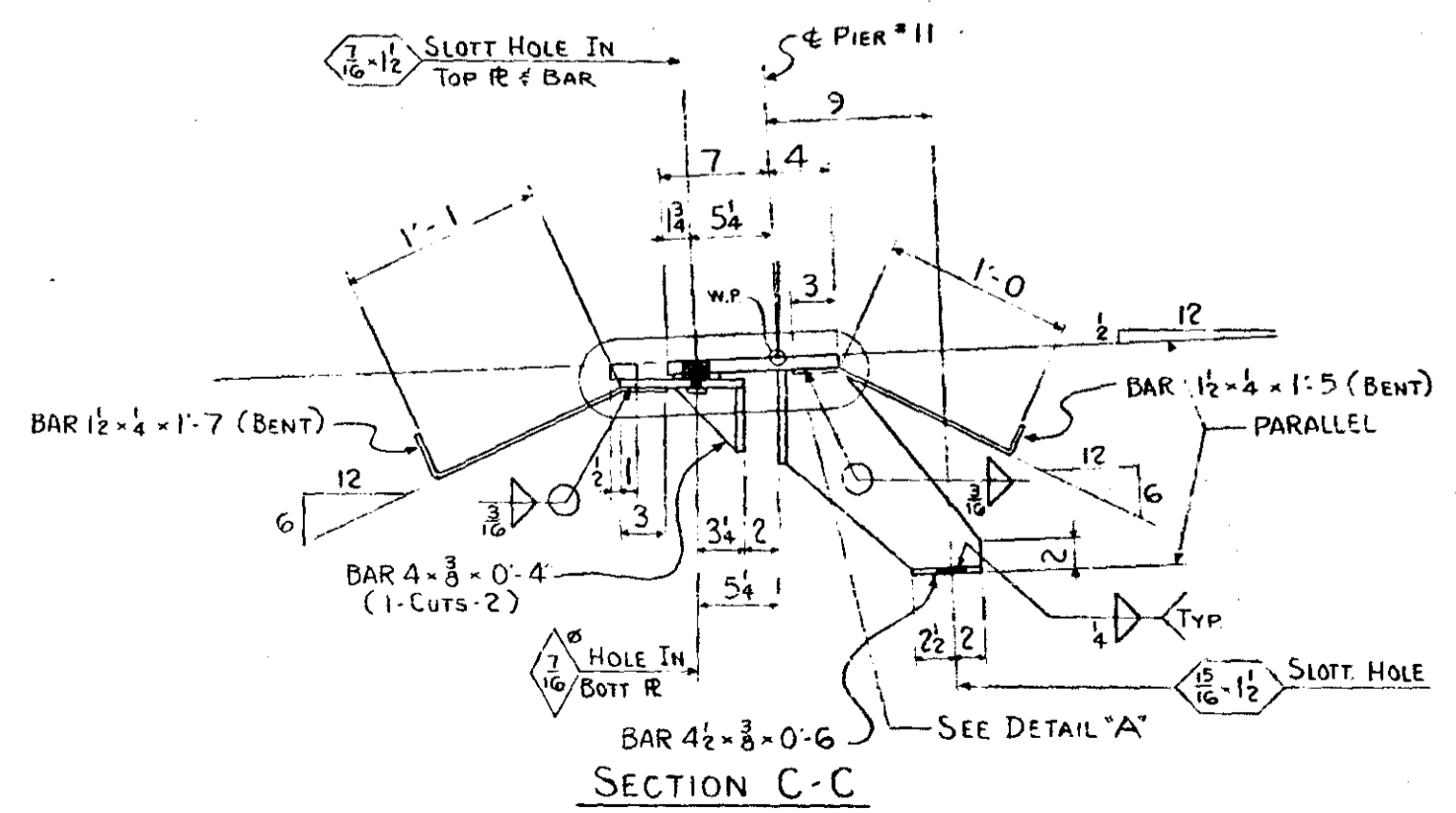
PROTECTION ANGLES
 Structure M.H.D. BRIDGE #9340
 Location MINNEAPOLIS, MINN.
 Contractor INDUSTRIAL CONST. CO.
 Made by WES
 Date 6-24-66
 Checked by EP
 Shop 6-24-66
 ORDER NO. 32647 DRAWING NO. 88

NO.	REVISION	Made by	Date



GEN. NOTES:
 HOLES AS NOTED
 STEEL AS PER M.H.D. 3306
 MATERIAL TO BE GALV. AFTER FABRICATION
 AS PER M.H.D. 3394
 SHOP WORK & MATERIAL AS PER M.H.D. SPECS
 DATED 1-1-1964 & SPECIAL PROVISIONS.
 SHOP INSPECTION BY M.H.D. BEFORE
 AND AFTER GALVANIZING.
 REPAIR GALV PER M.H.D. 2471.3L3

WORK THIS DWG. WITH DWG. 90



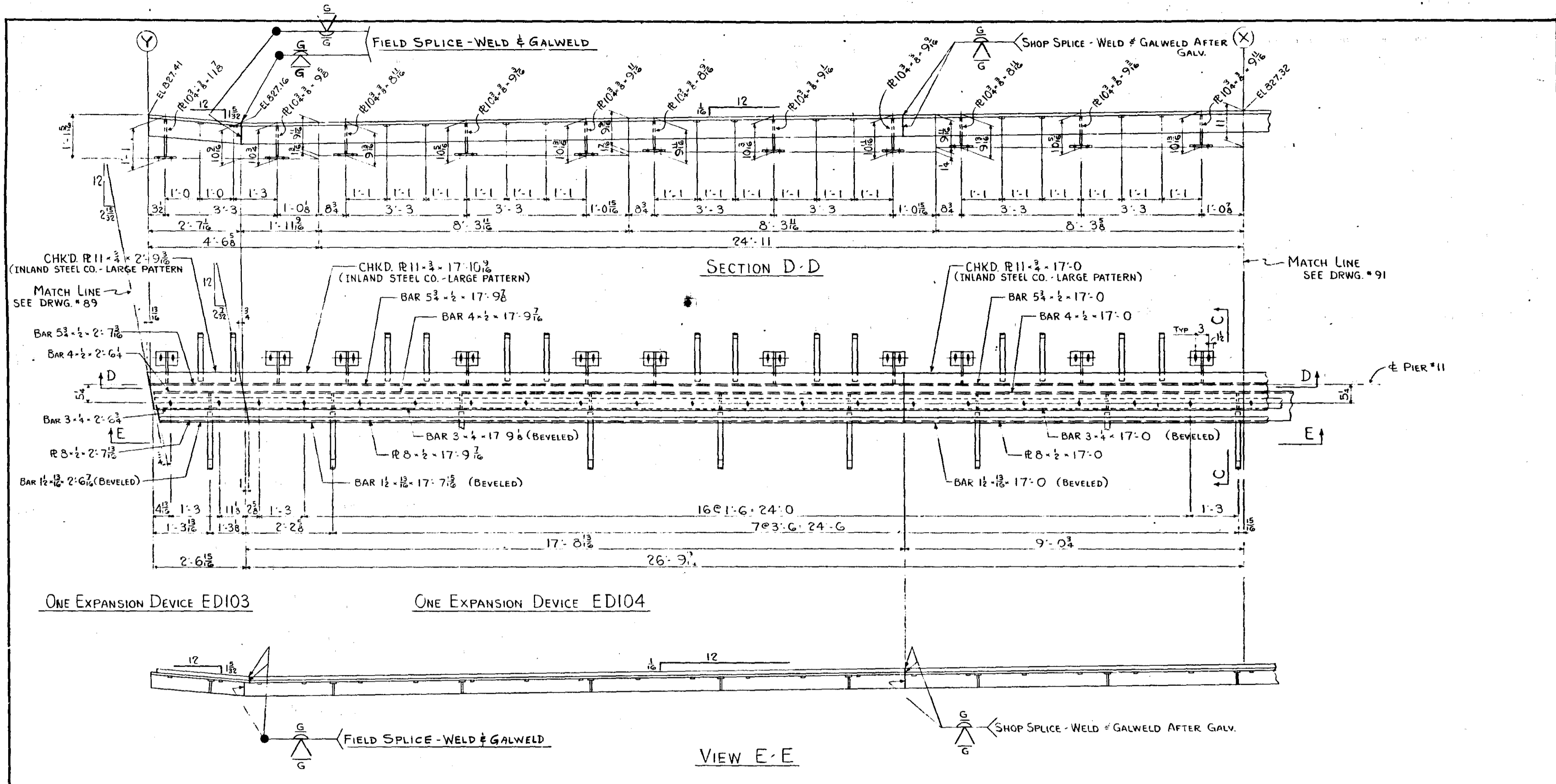
NO.	REVISION	Made by	Date

MINN. PROJ. #1-1G 35W-3 (58) 112
 S.P. # 2783-9340B (T.H. 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

PIER #11 EXPANSION DEVICE
 Structure M.H.D. BRIDGE #9340
 Location MINNEAPOLIS, MINN.
 Contractor INDUSTRIAL CONSTR. CO.
 Made by WES Checked by RP
 Date 7-20-66 Shop 7-20-66
 ORDER NO. 32647 DRAWING NO. 89

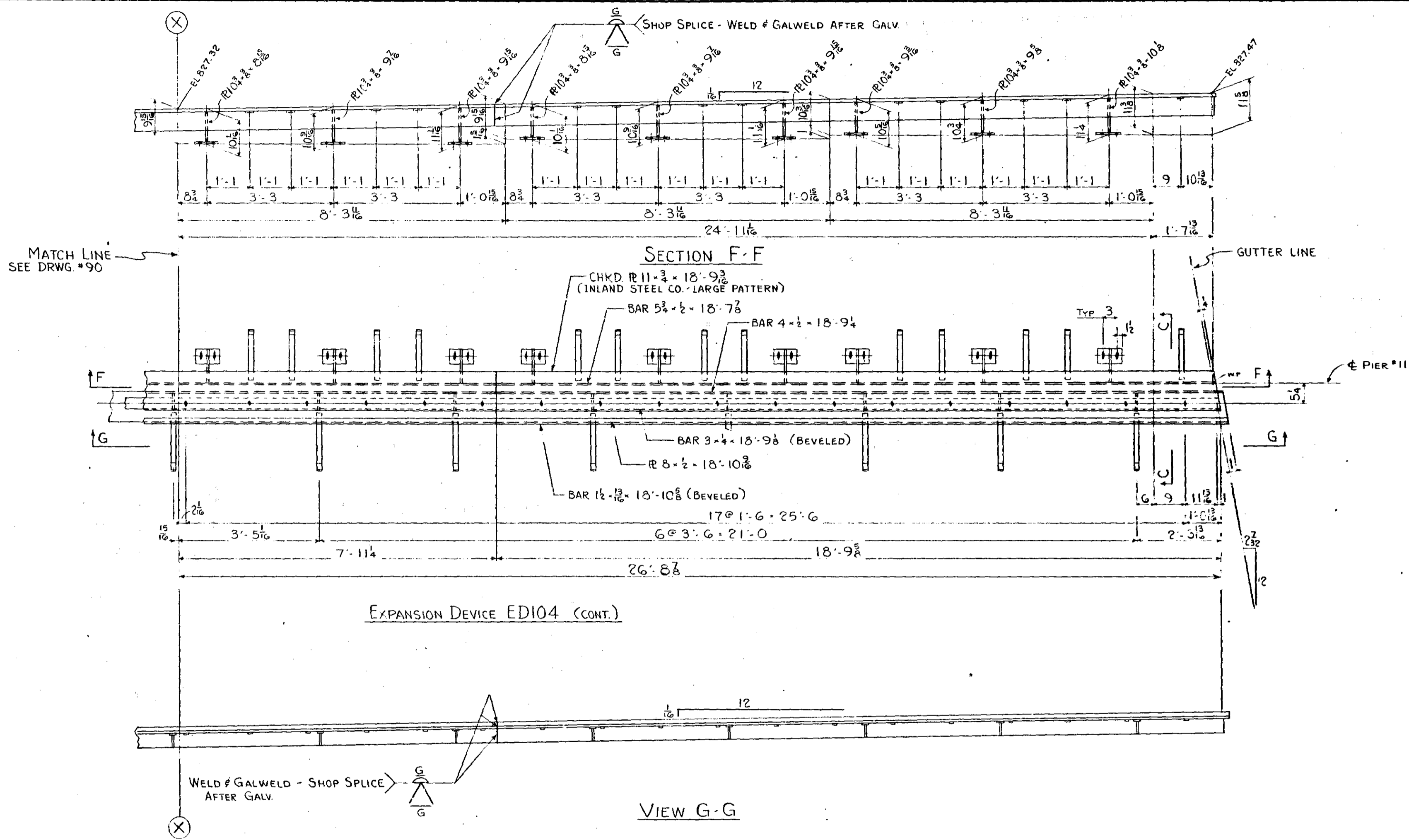
FORM 15-64H



FOR GEN. NOTES SEE DWG. 89
 WORK THIS DWG. WITH DWG. 89 & 91

MINN. PROJ. N° 1-IG 35W-3 (58) 112	
S.P. N° 2783-9340B (T.H.35W-394)	
ST. PAUL FOUNDRY & MFG. CO.	
ST. PAUL, MINN.	
PIER #11 EXPANSION DEVICE	
Structure M.H.D. BRIDGE N° 9340	
Location MINNEAPOLIS, MINN.	
Contractor INDUSTRIAL CONSTR. CO.	
Made by W.E.S.	Checked by R.P.
Date 7-20-66	Shop 7-20-66
ORDER NO. 32647	DRAWING NO. 90

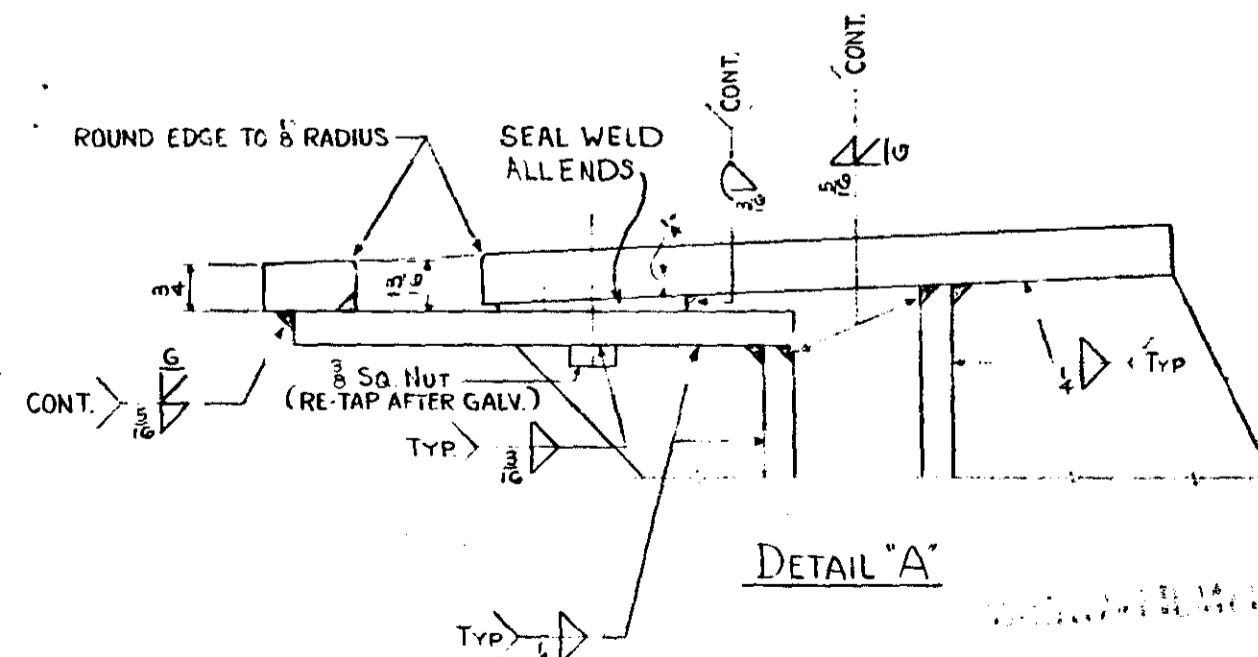
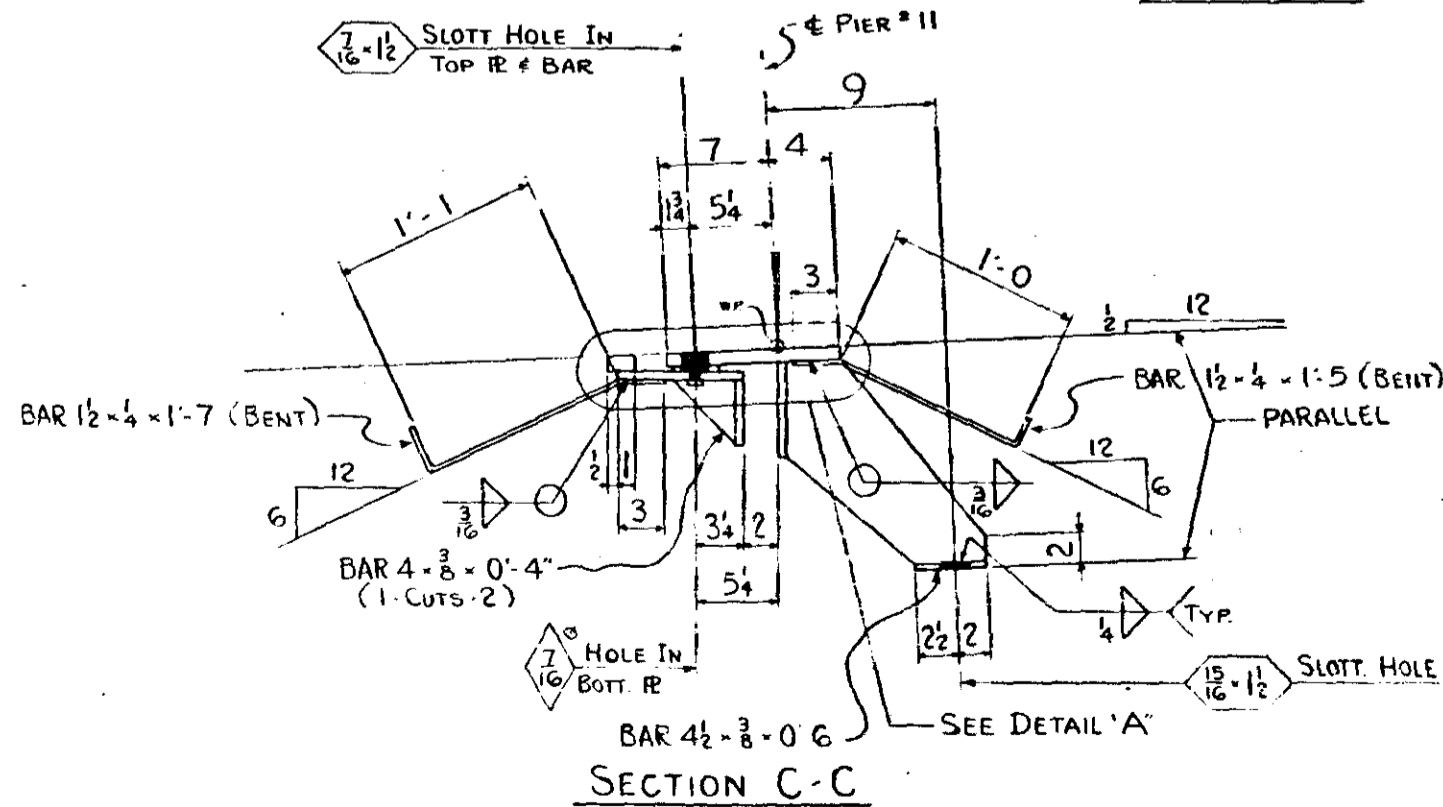
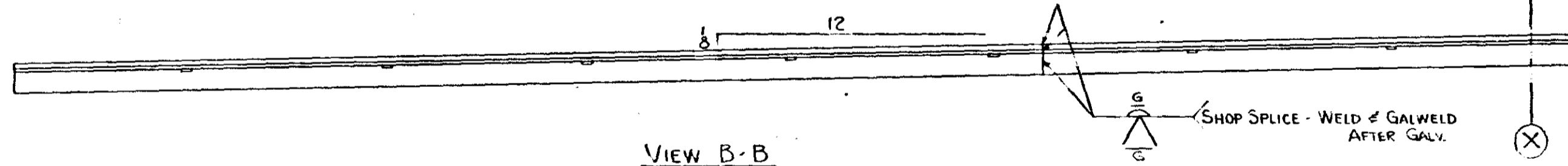
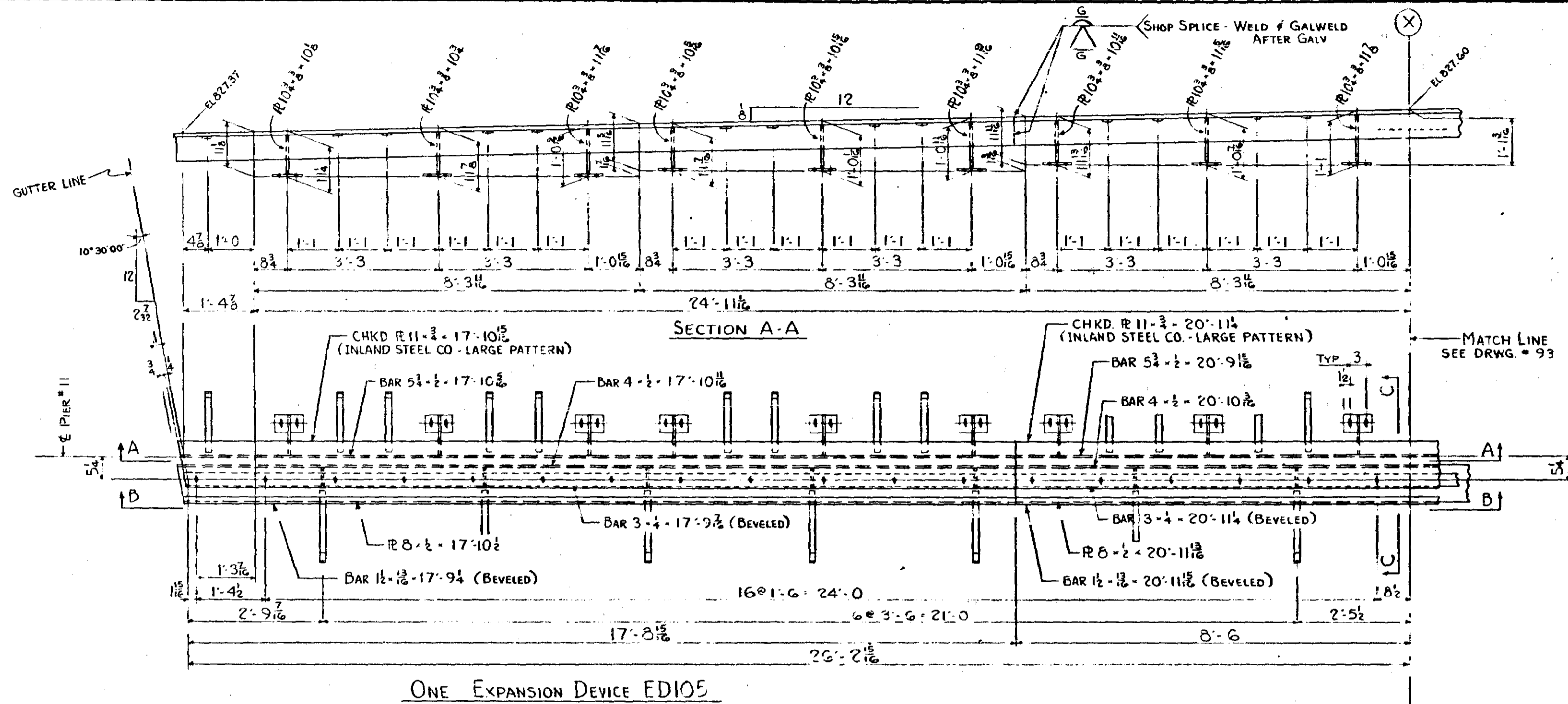
NO.	REVISION	Made by	Date



FOR GEN. NOTES SEE DWG. 89
WORK THIS DWG. WITH DWG. 90

MINN. PROJ. N°1-1G 35W-3 (58) 112	
S.P. N° 2783-9340B (T.H. 35W-394)	
ST. PAUL FOUNDRY & MFG. CO. ST. PAUL, MINN.	
PIER #11 EXPANSION DEVICE	
Structure	M.H.D. BRIDGE N°9340
Location	MINNEAPOLIS, MINN.
Contractor	INDUSTRIAL CONSTR. CO.
Made by	W.E.S.
Checked by	RP
Date	Shop 7-20-66
ORDER NO. 32647	DRAWING N° 91

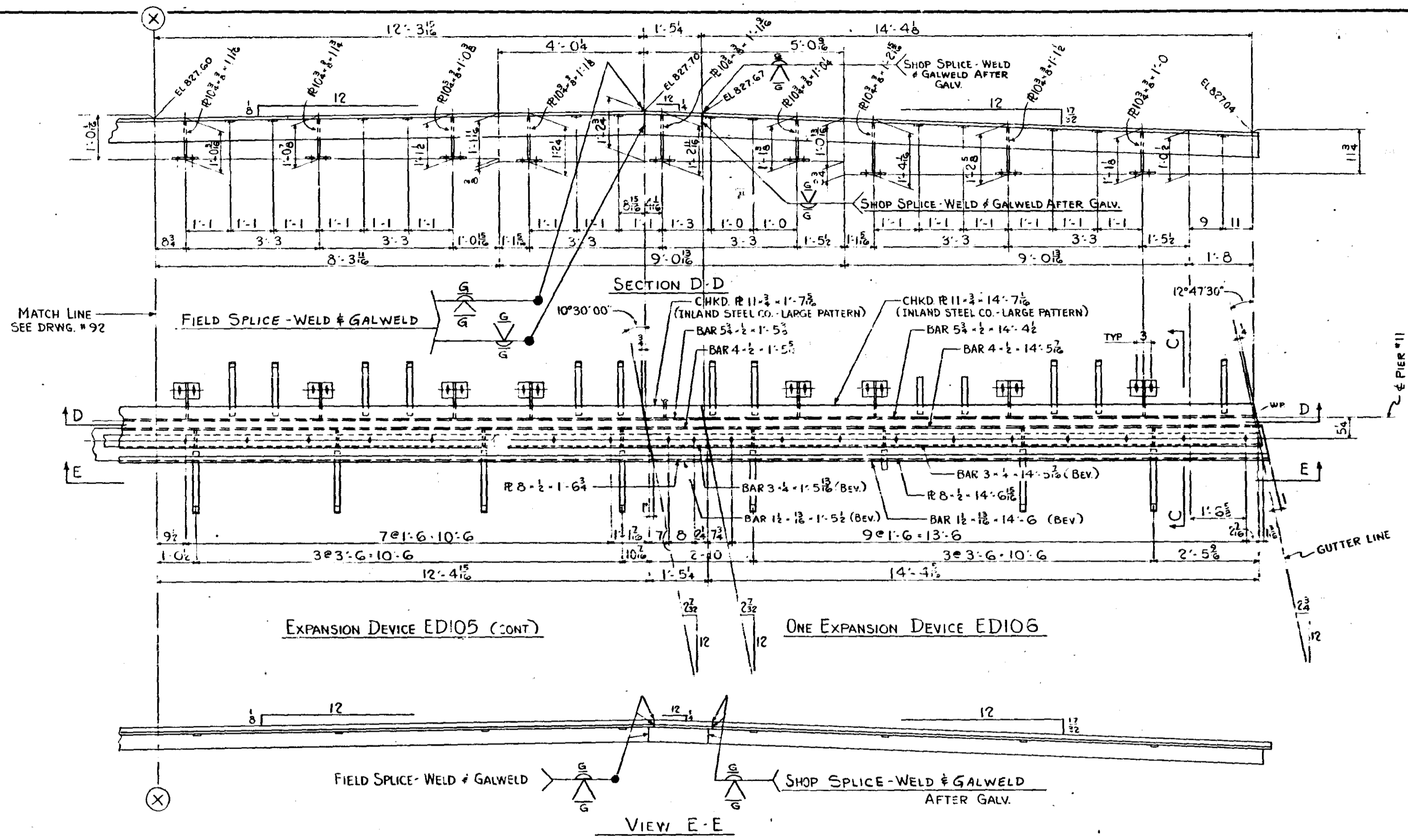
NO.	REVISION	Made by	Date



For GEN NOTES See DWG 89
 WORK THIS DWG. WITH DWG 93

MINN. PROJ. NO. 1-IG 35W-3 (58) 112	
SP. NO. 2783-9340B (LH 35W-394)	
ST. PAUL FOUNDRY & MFG. CO. ST. PAUL, MINN.	
PIER #11 EXPANSION DEVICE	
Structure M.H.D. BRIDGE NO. 9340	
Location MINNEAPOLIS, MINN.	
Contractor INDUSTRIAL CONSTR. CO.	
Made by W.E.S.	Checked by R.P.
Date	Shop 7-20-66
ORDER NO. 32647	DRAWING NO. 92

NO.	REVISION	Made by	Date



MATCH LINE
SEE DRWG. #92

SECTION D-D

CHKD R 11-3-14-7 1/2
(INLAND STEEL CO. - LARGE PATTERN)
BAR 5 1/2 - 14 - 4 1/2
BAR 4 - 14 - 5 1/2

CHKD R 11-3-14-7 1/2
(INLAND STEEL CO. - LARGE PATTERN)
BAR 5 1/2 - 14 - 4 1/2
BAR 4 - 14 - 5 1/2

EXPANSION DEVICE ED105 (CONT)

ONE EXPANSION DEVICE ED106

VIEW E-E

FOR GEN. NOTE SEE DWG. 89.
WORK THIS DWG. WITH DWG. 92.

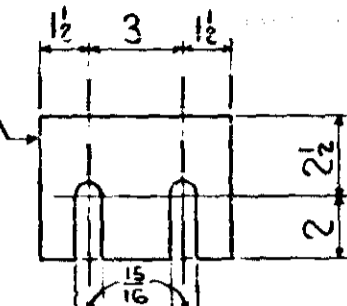
MINN. PROJ. N°1-IG 35W-3 (58) 112
S.P. N° 2783-9340B (T.H. 35W-374)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

PIER #11 EXPANSION DEVICE
Structure M.H.D. BRIDGE N° 9340
Location MINNEAPOLIS, MINN.
Contractor INDUSTRIAL CONSTR. CO.
Made by W.E.S. Checked by RP
Date Shop 7-20-66
ORDER NO. 32647 DRAWING NO. 93

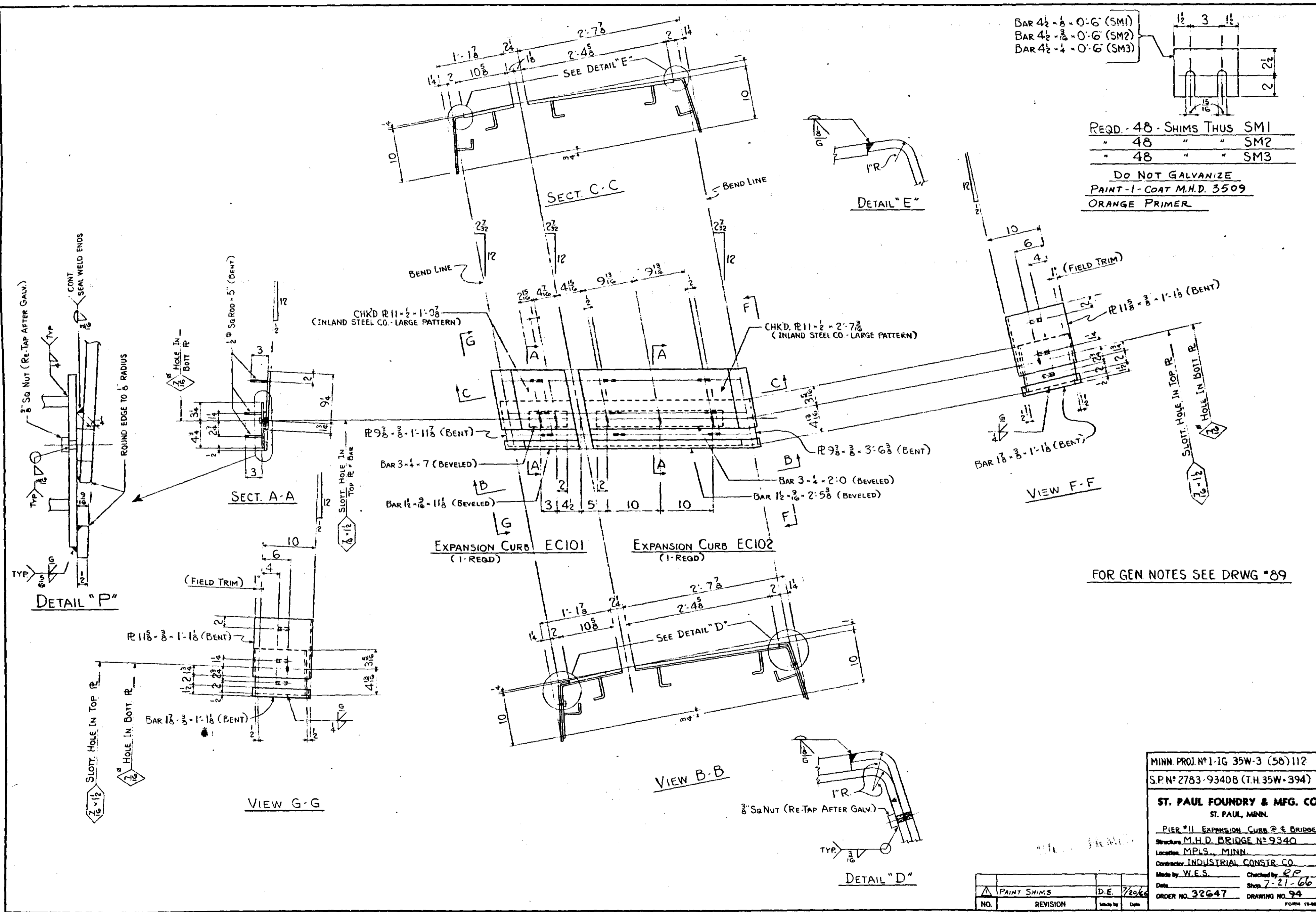
NO.	REVISION	Made by	Date

BAR $4\frac{1}{2} \times \frac{3}{8} \times 0'-6"$ (SM1)
 BAR $4\frac{1}{2} \times \frac{3}{8} \times 0'-6"$ (SM2)
 BAR $4\frac{1}{2} \times \frac{3}{8} \times 0'-6"$ (SM3)



REQD. - 48 - SHIMS THUS	SM1
" 48 "	SM2
" 48 "	SM3

DO NOT GALVANIZE
 PAINT - 1 - COAT M.H.D. 3509
 ORANGE PRIMER



FOR GEN NOTES SEE DRWG #89

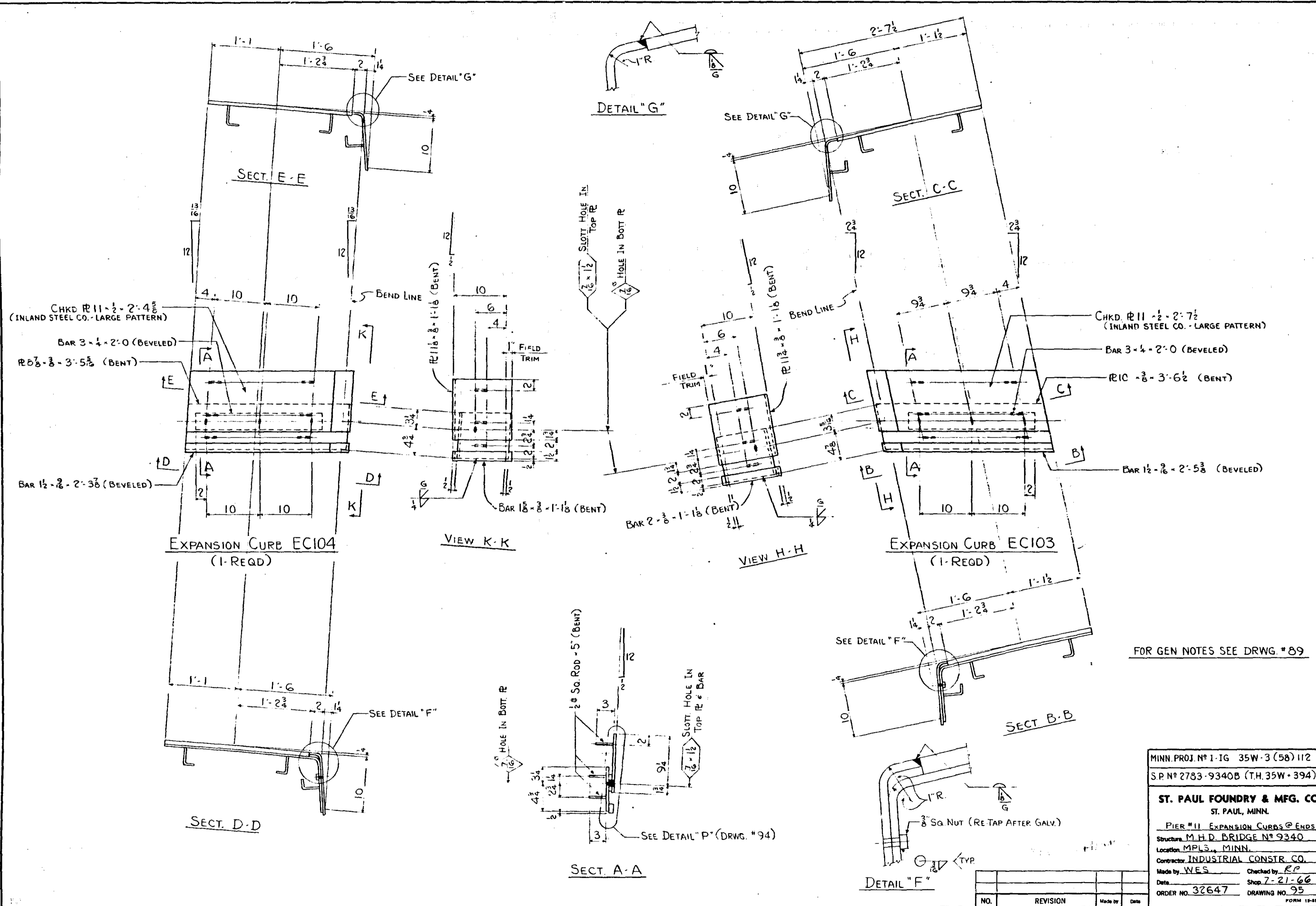
MINN PROJ. N° 1-IG 35W-3 (56) 112
 S.P. N° 2783-9340B (T.H. 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

PIER #11 EXPANSION CURB @ E BRIDGE
 Structure M.H.D. BRIDGE N° 9340
 Location MPLS., MINN.
 Contractor INDUSTRIAL CONSTR. CO.
 Made by W.E.S. Checked by R.P.
 Date Shop 7-21-66
 ORDER NO. 32647 DRAWING NO. 94

NO.	REVISION	Made by	Date
1	PAIN SHIMS	D.E.	7/20/66

FORM 15-661



FOR GEN NOTES SEE DRWG. # 89

MINN. PROJ. N° 1-IG 35W-3 (58) 112
 S.P. N° 2783-9340B (T.H. 35W-394)

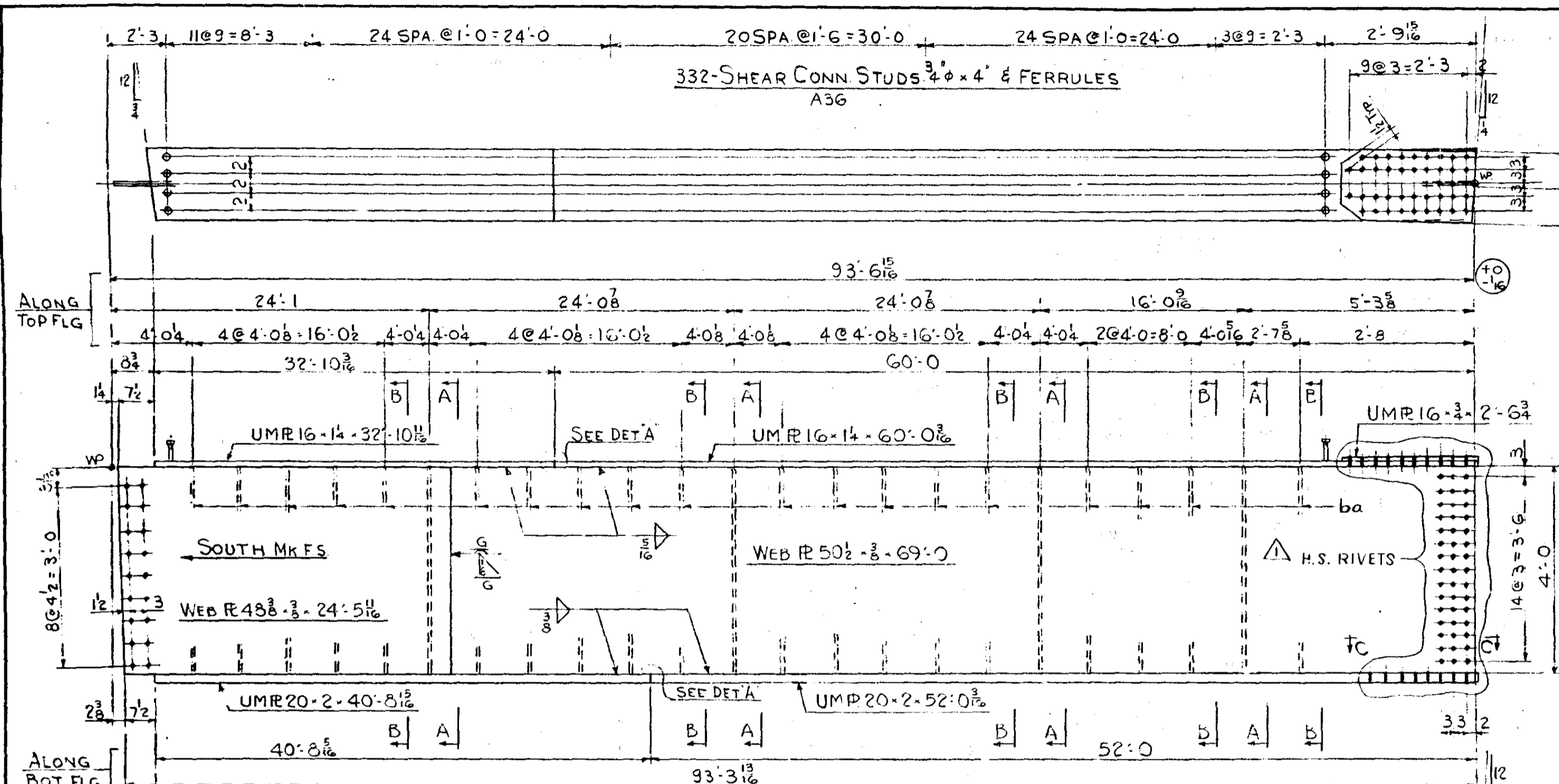
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

PIER # 11 EXPANSION CURBS @ ENDS
 Structure M.H.D. BRIDGE N° 9340
 Location MPLS., MINN.

Contractor **INDUSTRIAL CONSTR. CO.**
 Made by **WES** Checked by **RC**
 Date **7-21-66**
 ORDER NO. **32647** DRAWING NO. **95**

NO.	REVISION	Made by	Date

FORM 12-534



GEN. NOTES:

- 100 PER CENT OF ALL FILLET WELDS SHALL BE EXAMINED BY MAGNETIC PARTICLE INSPECTION EXCEPT ON RAILING AND RAILING COMPONENTS, LIGHTING SYSTEMS (INCLUDING INCIDENTAL PARTS), BEARINGS, LADDERS, EXPANSION DEVICES, INSPECTION WALKWAYS, INTERMEDIATE STIFFENERS IN APPROACH SPANS AND CHANNEL DIAPHRAGMS.
- PAINT ALL CONTACT SURFACES
- PAINT 1-COAT M.H.D. 3509 ORANGE PRIMER
- FULL ASSEMBLY REAMING WILL BE REQUIRED AS PER M.H.D. 2471.3E1d
- HOLES SHALL BE SUBPUNCHED $\frac{1}{16}$ " AND REAMED TO $\frac{15}{16}$ " OR DRILLED FROM A SOLID U.N.
- $\frac{1}{16}$ " HOLES IN BOT. FLG. TO BE DRILLED FROM STEEL TEMPLATE USING HARDENED BUSHING, SAME TEMPLATE TO BE USED FOR BEARING ASSEMBLY.
- ALL MEMBERS TO BE SHOP ASSEMBLED AND MATCH MARKED SEE DRWG. 100E2
- MATCH MARK WITH PAINT & METAL DIE - MATCH MARKING TO BE M.H.D. 2471.3E1e & 2471.3K
- ALL STEEL TO BE AS PER M.H.D. 3306 U.N. - FOR FLAME CUTTING SEE M.H.D. 2471.3C4
- EDGE FINISH AS PER M.H.D. 2471.3D3 & 2471.3D4
- MATERIAL AND SHOP WORK AS PER M.H.D. SPECS. DATED 1-1-64 AND SPECIAL PROVISIONS.
- SHOP INSPECTION BY M.H.D.
- CAMBER AS SHOWN OR NOTED
- PROVISIONS FOR WELDED CONSTRUCTION AS PER M.H.D. 2471.3J
- WELDING ELECTRODES AS PER M.H.D. 3339
- INTERIOR & RE-ENTRANT CORNERS SHALL BE SMOOTHLY FILLETED TO 1" RADIUS, M.H.D. SPECS. 2471.3C5
- STIFFENERS ON A SKEW TO HAVE EDGE BEVELED TO FIT FLUSH AGAINST GIRDER WEB.

SHOP NOTE:
BOLT SPLICE MATERIAL FOR SHIPMENT
REMOVE ALL TACK WELDING IN SHOP

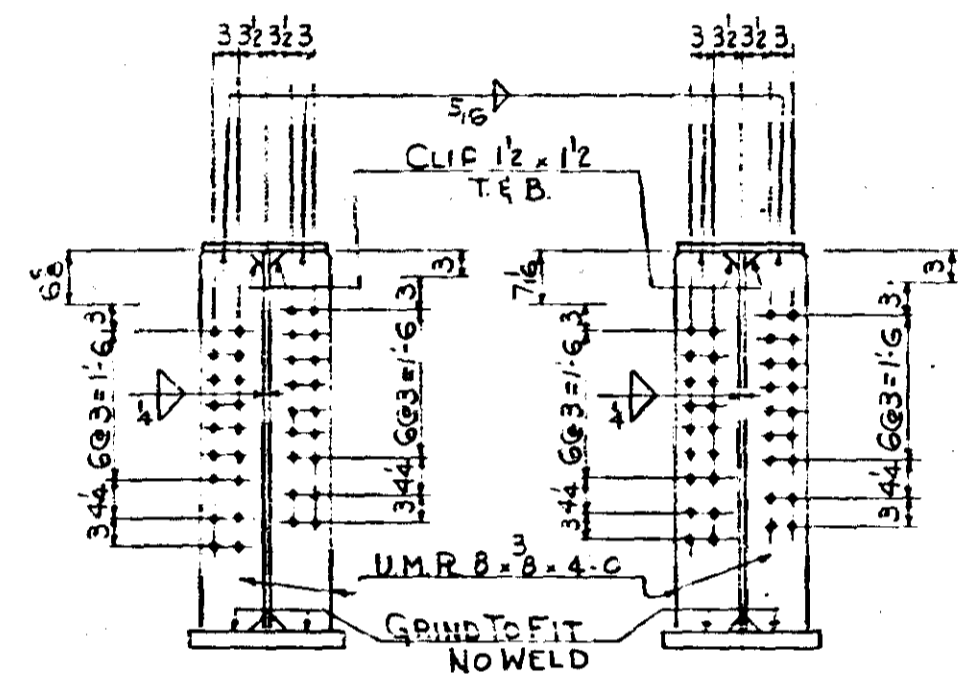
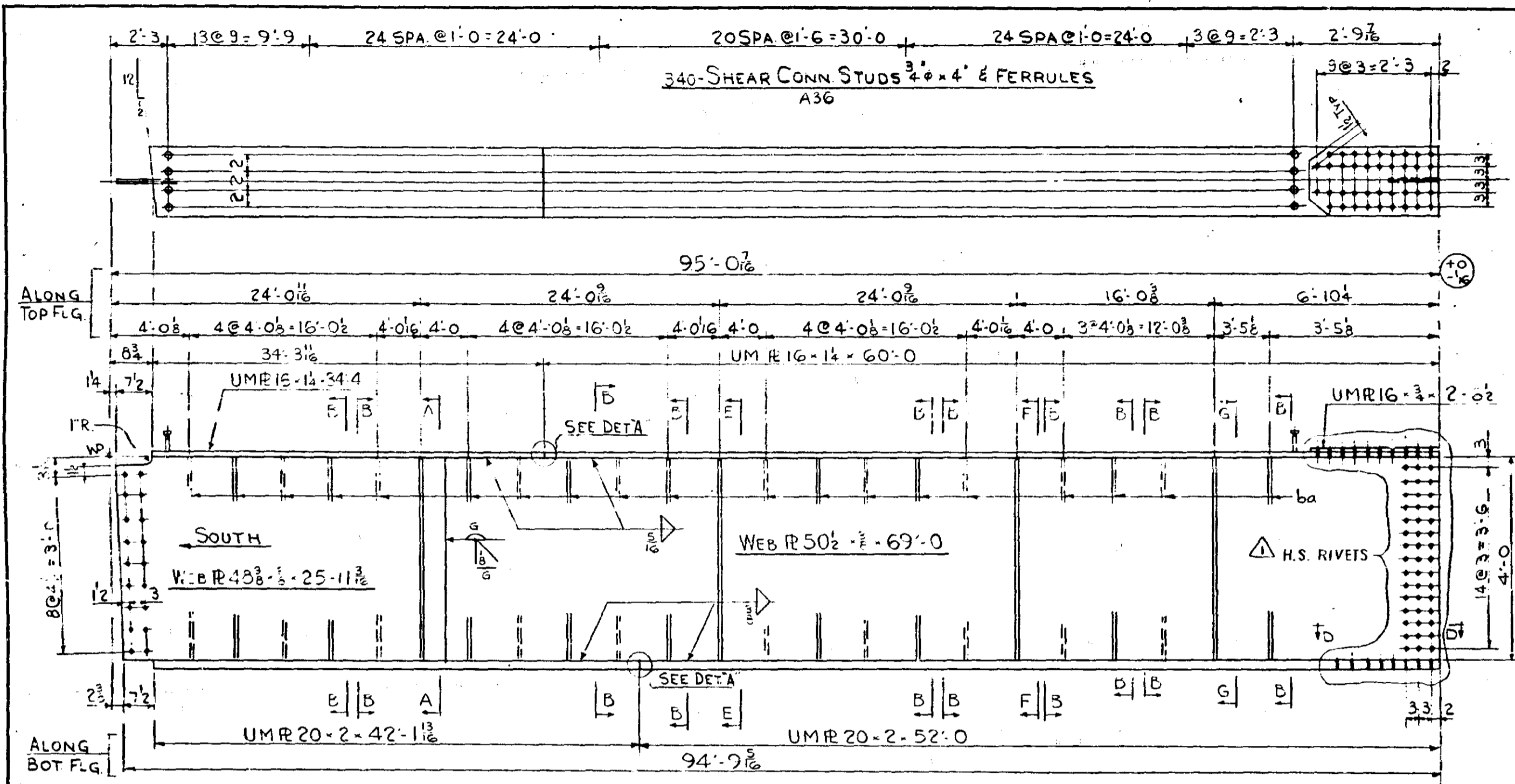
MINN PROJ No II G 35W-3(58)112
S.P. No. 2783-9340B (TH.35W-394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

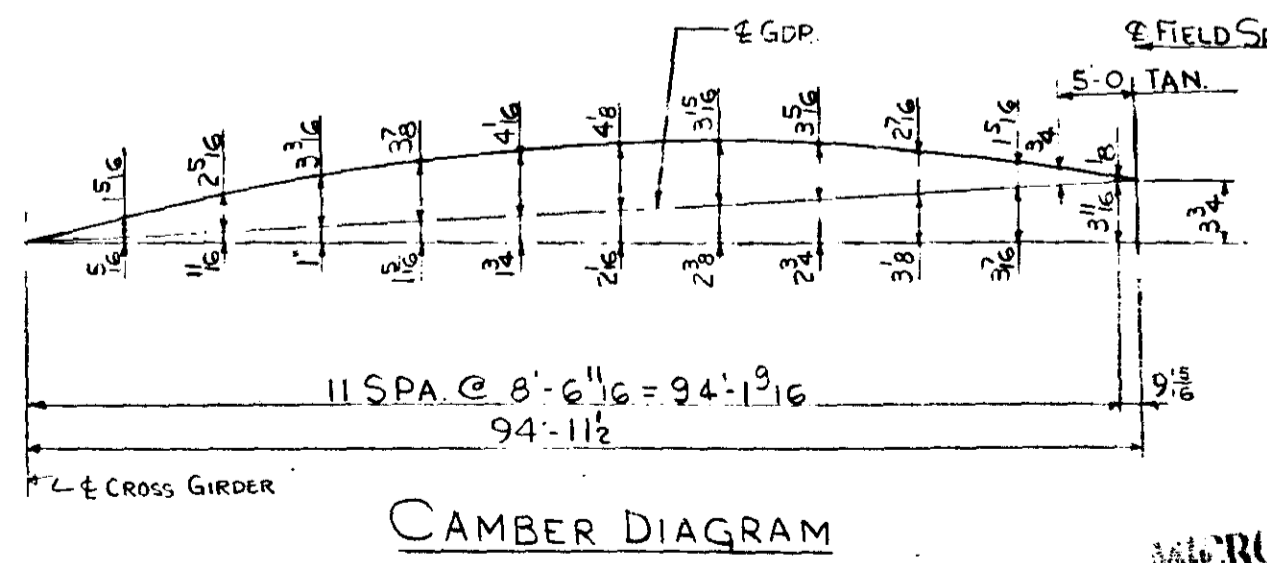
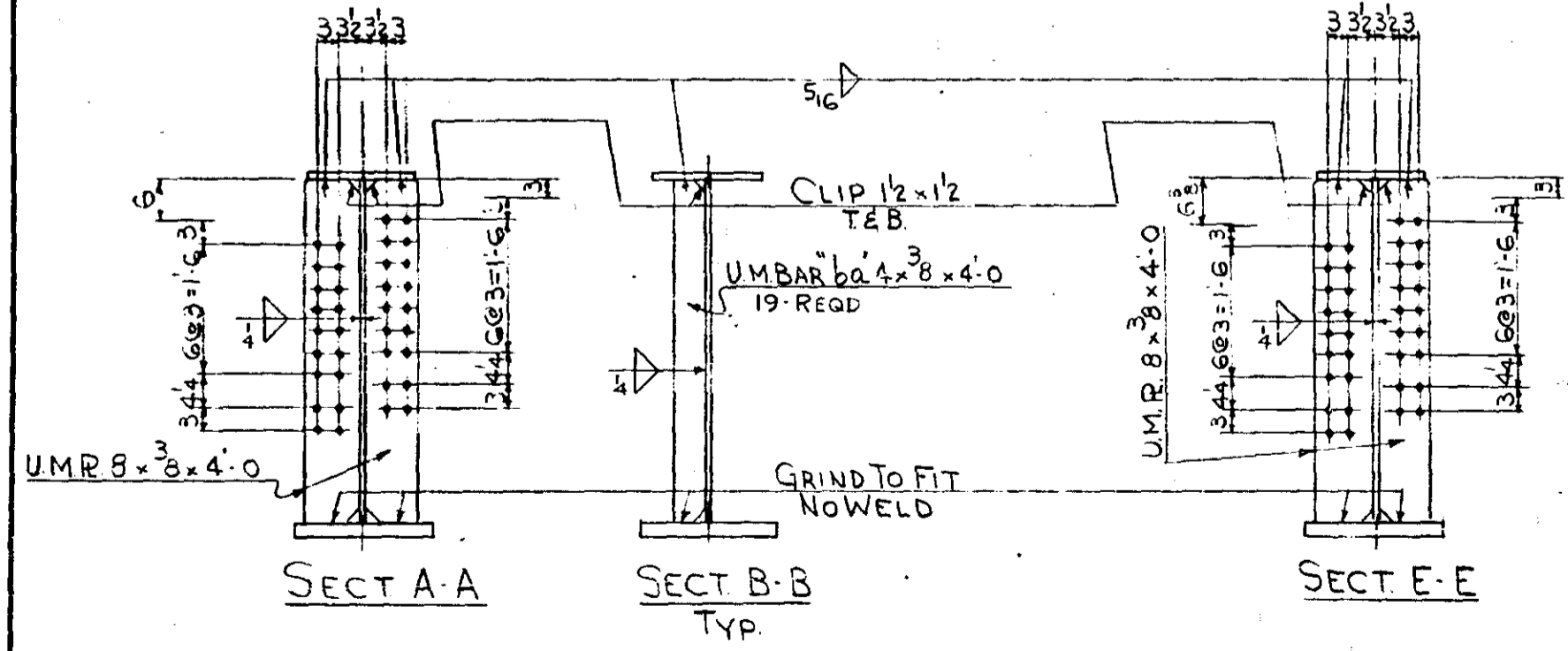
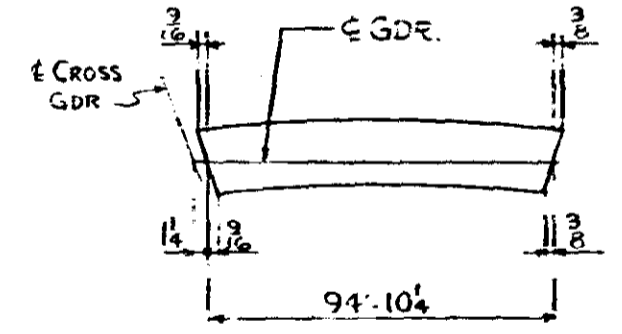
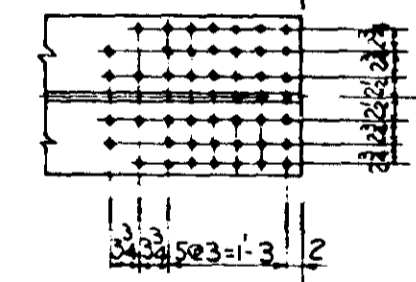
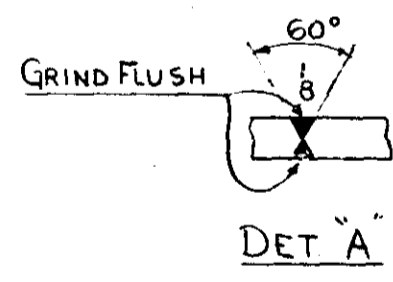
GIRDER-DETAILS

Structure M.H.D. No. 9340
Location MPLS. MINN.
Contractor INDUSTRIAL CONSTR. CO.
Made by I.T. Checked by WES
Date Shop 9-1
ORDER NO. 32647 DRAWING NO. 100

NO.	REVISION	Made by	Date
1	H.S. RIVET HOLES	WES	9/26



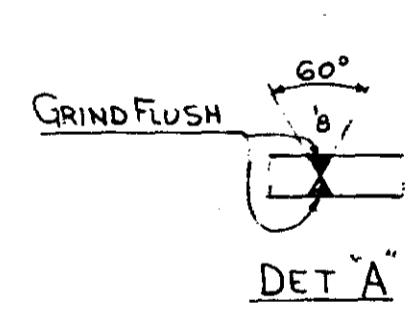
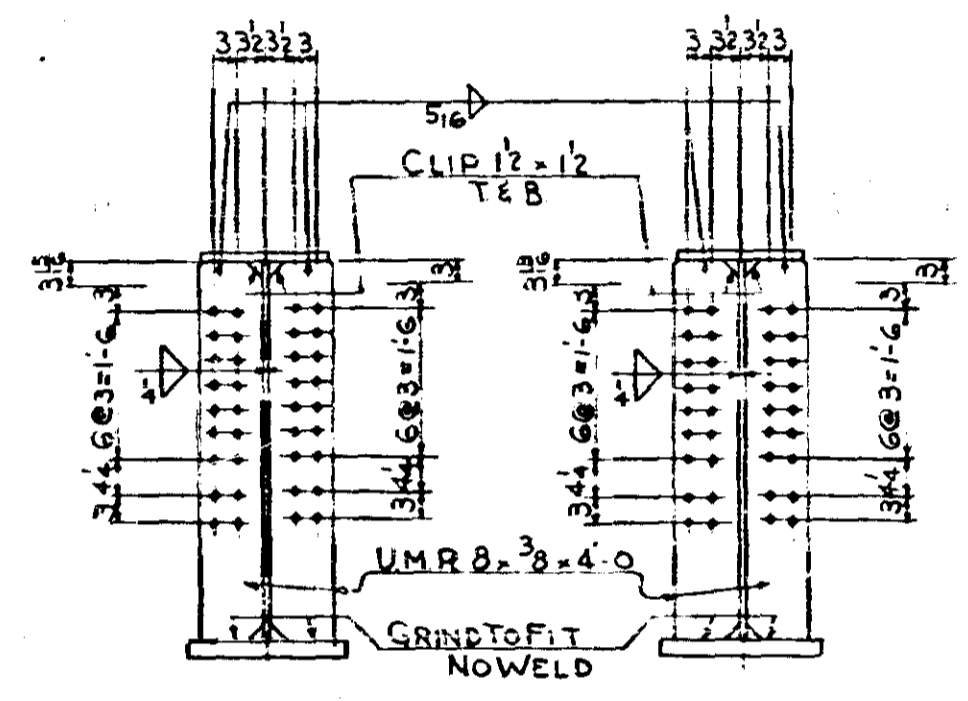
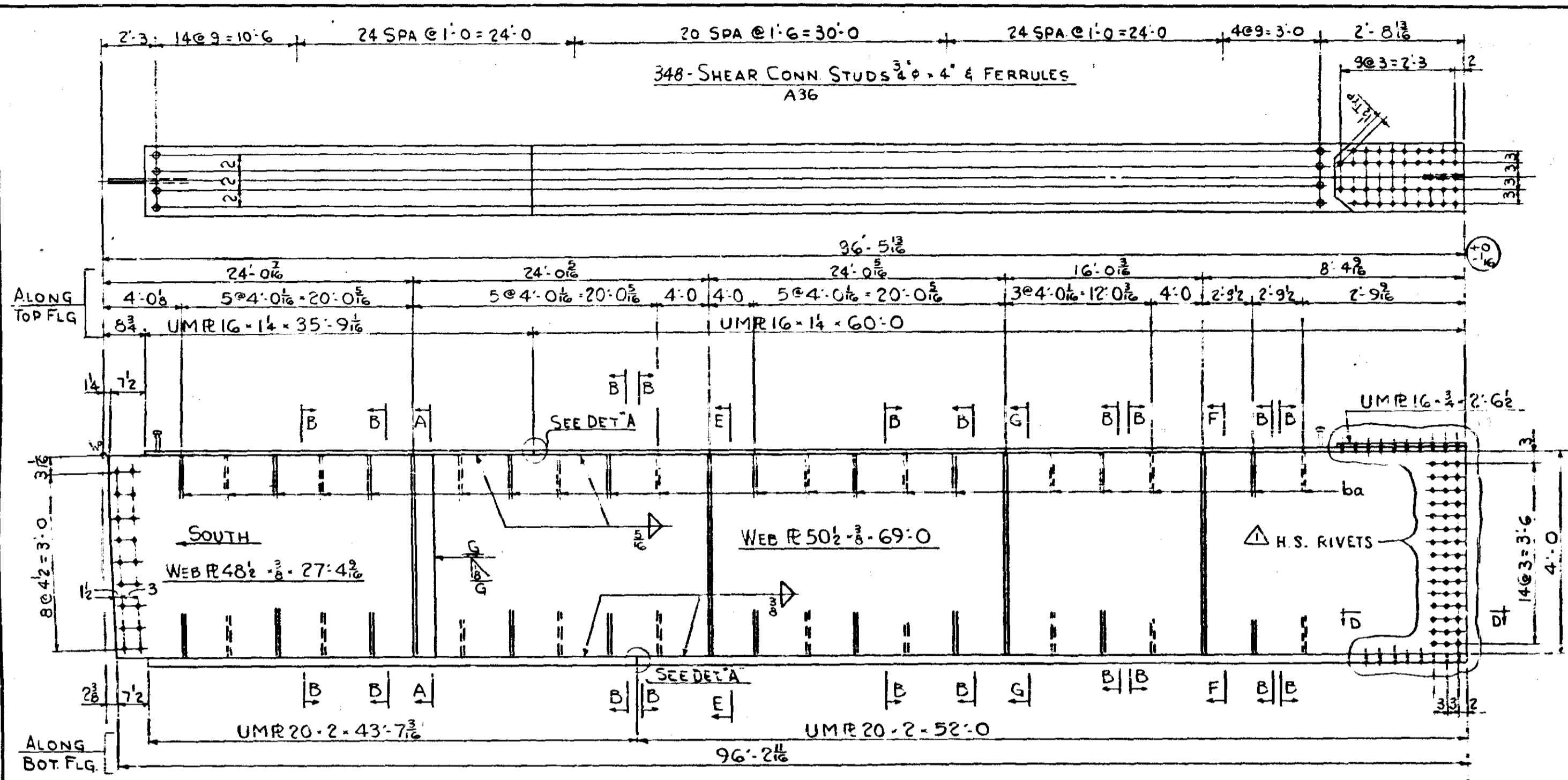
REQ'D-1- GIRDER THUS G 101



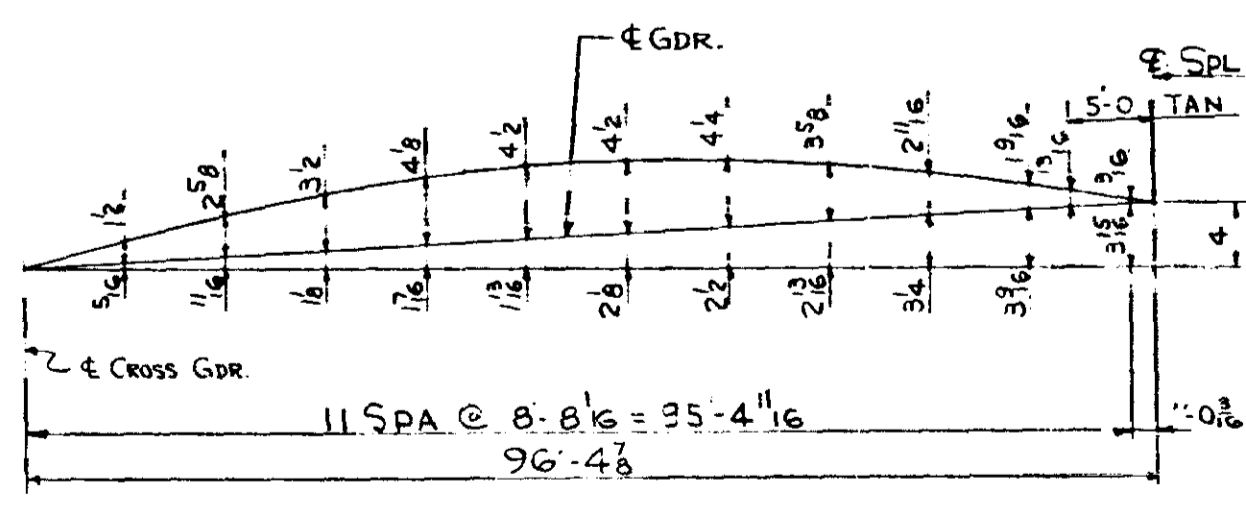
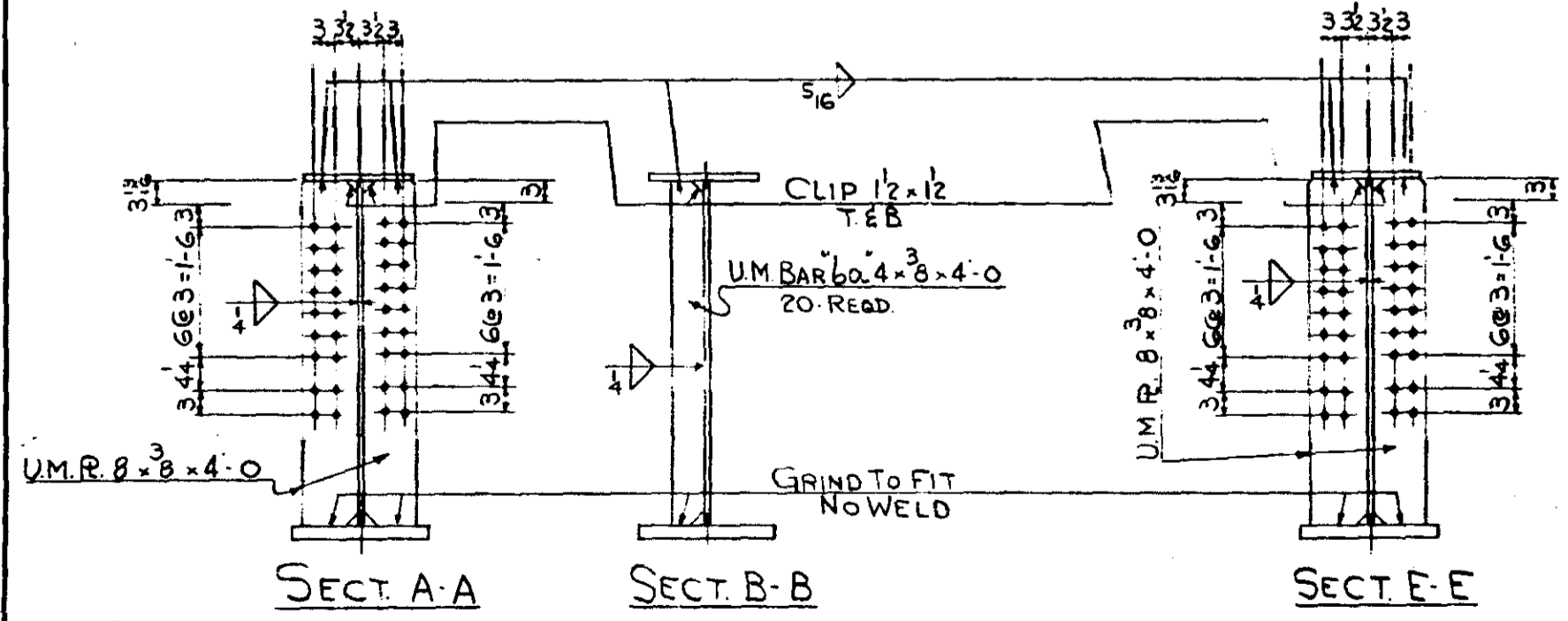
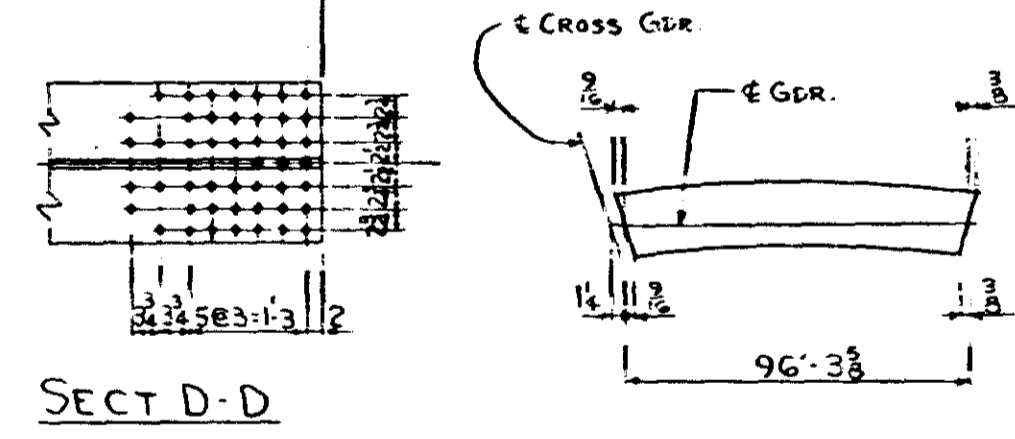
GENERAL NOTE SEE DWG 100

MINN PROJ NO IIG 35W-3(SB)112
 SP NO 2783-9340B (TH 35W-394)
 ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.
 GIRDER-DETAILS
 Structure M.H.D. NO 9340
 Location MPLS. MINN.
 Contractor INDUSTRIAL CONSTR. CO.
 Made by I.I. Checked by WES
 Date 9-1-26 Shop 9-1-26
 ORDER NO. 32647 DRAWING NO. 101

NO.	REVISION	Made by	Date
1	H.S. RIVET HOLES	WES	9/26



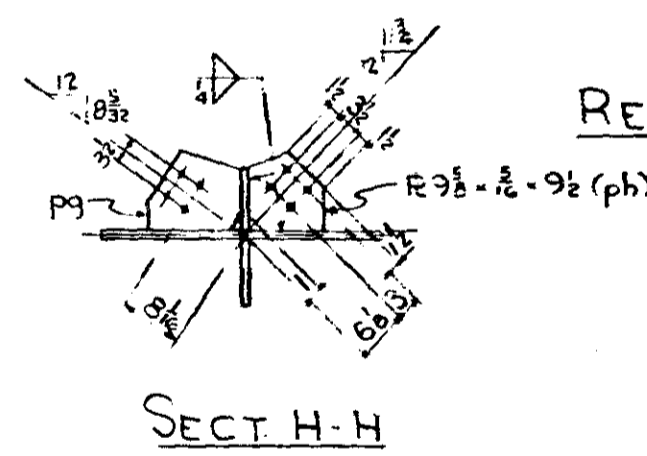
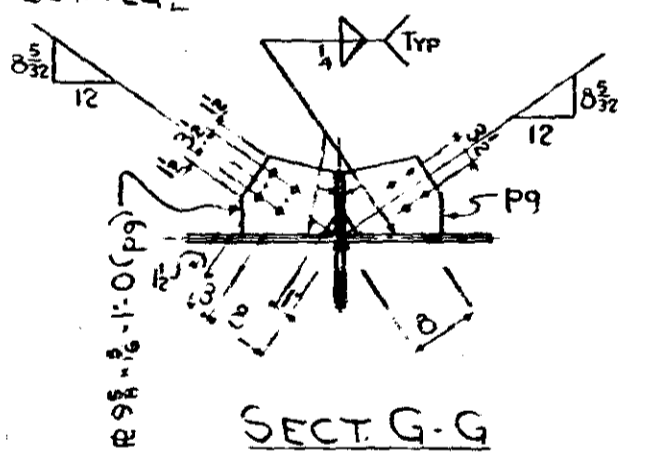
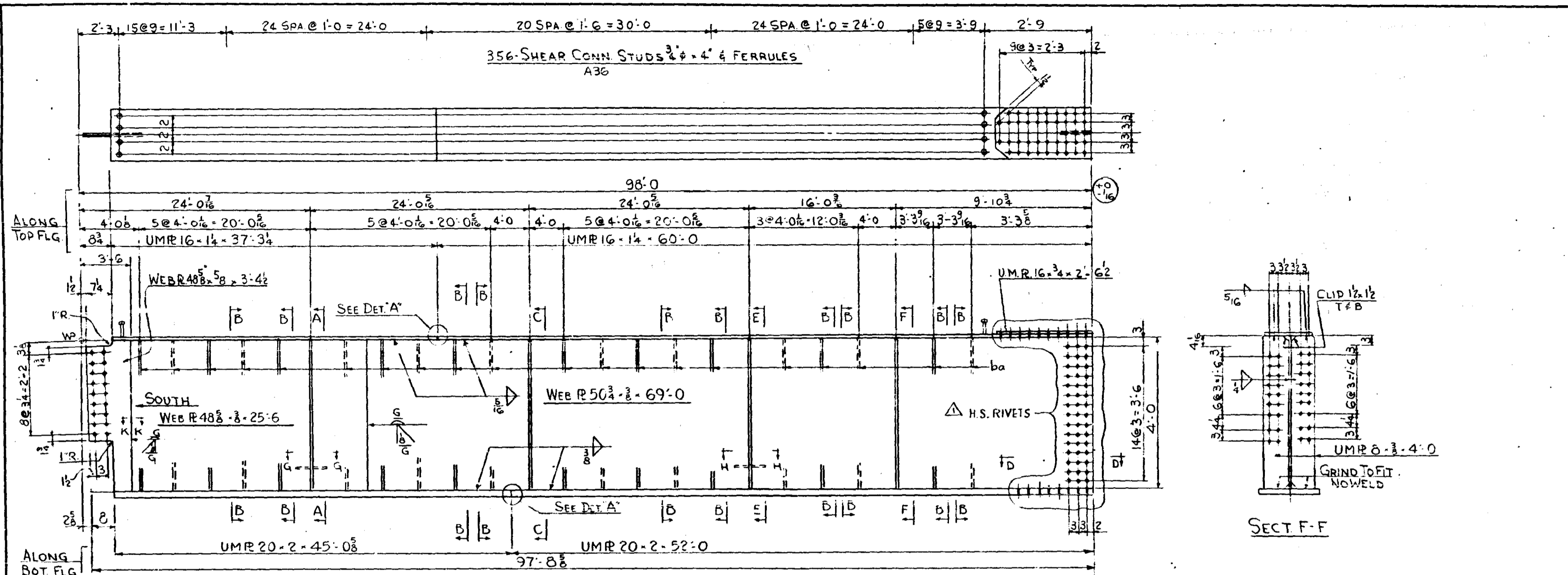
REQ'D - 1- GIRDER THUS G102



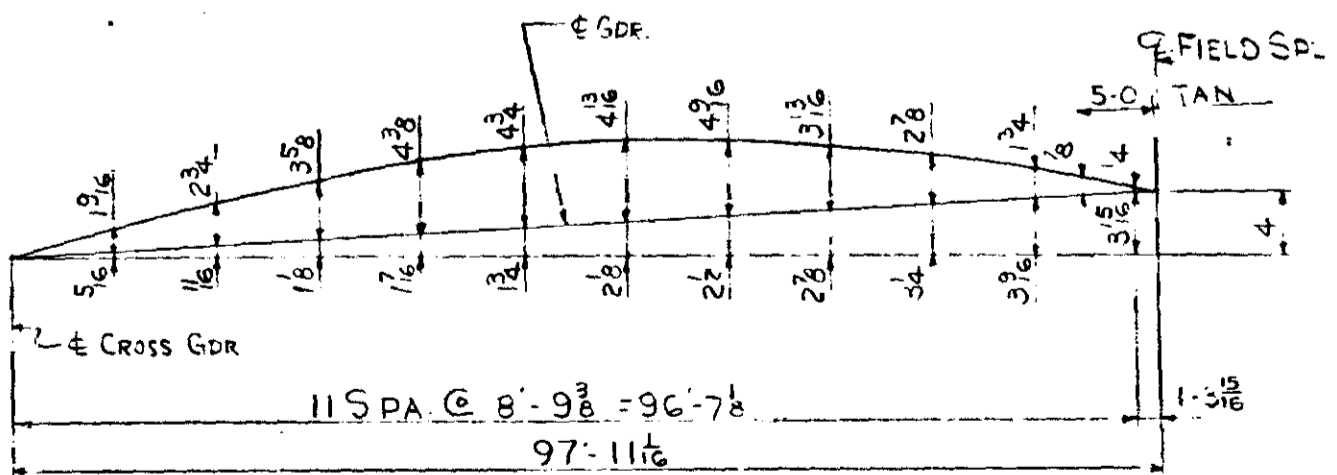
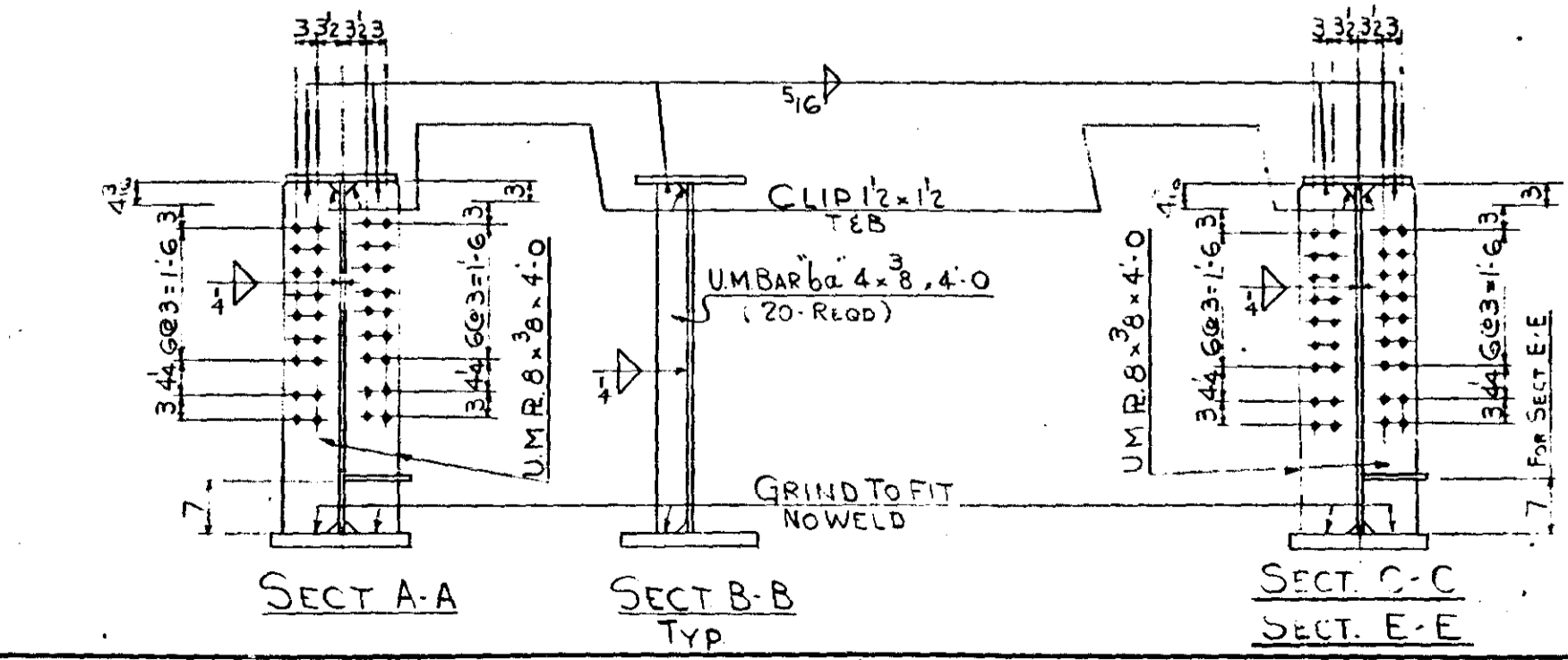
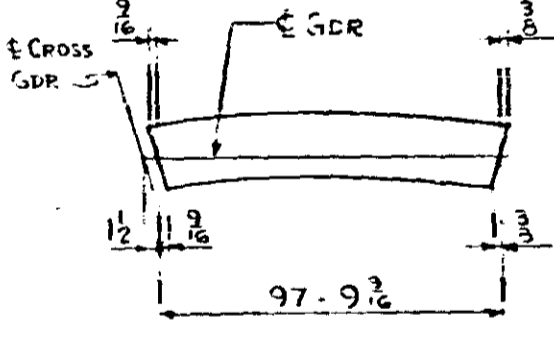
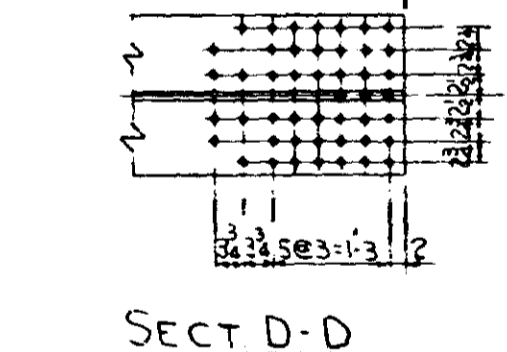
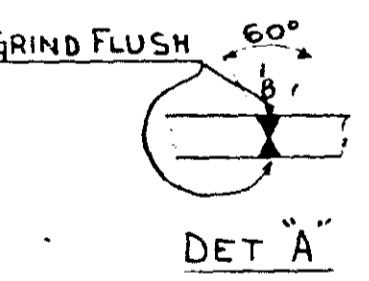
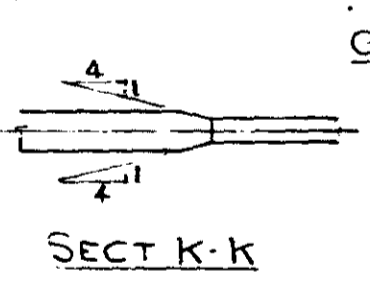
GENERAL NOTE SEE DWG 100

MINN PROJ No I-IG 35W-3(58)112
 SP No 2783-9340B (TH 35W=394)
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.
GIRDER-DETAILS
 Structure M.H.D No 9340
 Location MPLS MINN
 Contractor INDUSTRIAL CONSTR CO
 Made by I I Checked by WES
 Date Shop 9-1
 ORDER NO 32647 DRAWING NO 102

NO.	REVISION	Made by	Date
1	H.S. RIVET HOLES	WES	9/26



REQ'D - 1 - GIRDER THUS G103



GENERAL NOTE SEE DWG. 100

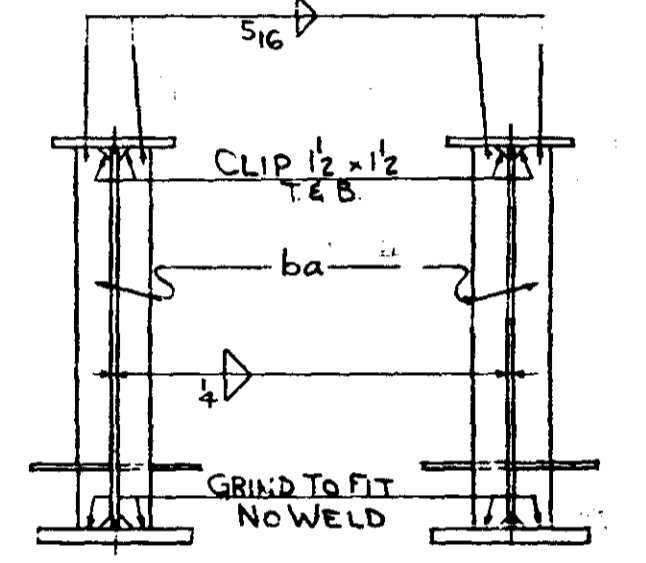
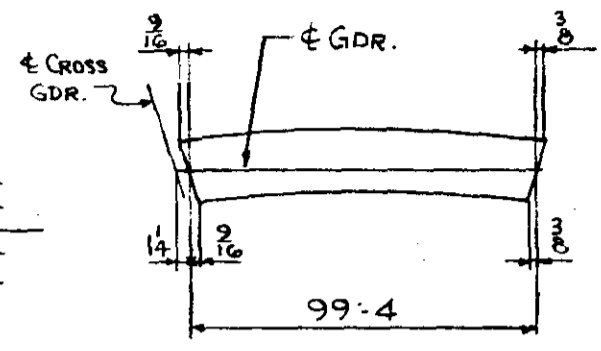
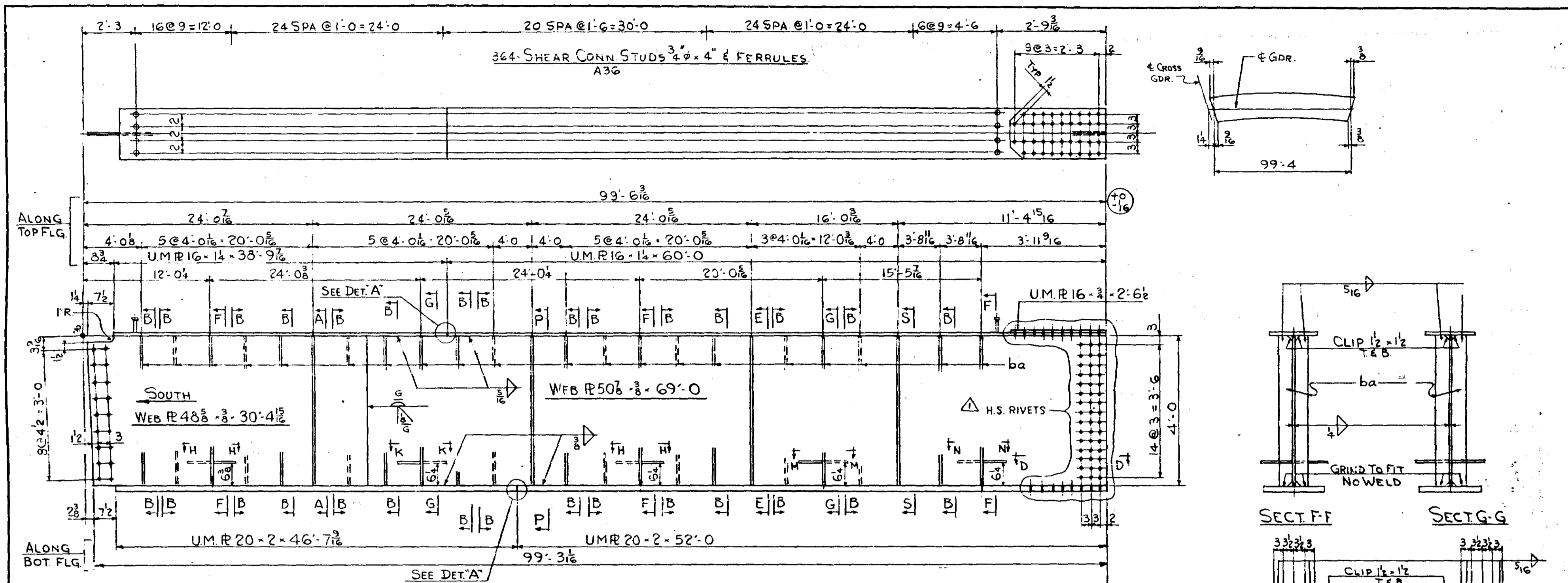
MINN PROJ NO I-IG 35W-3(S8)112
SP NO: 275-9340B (TH 35W=394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

GIRDER-DETAILS

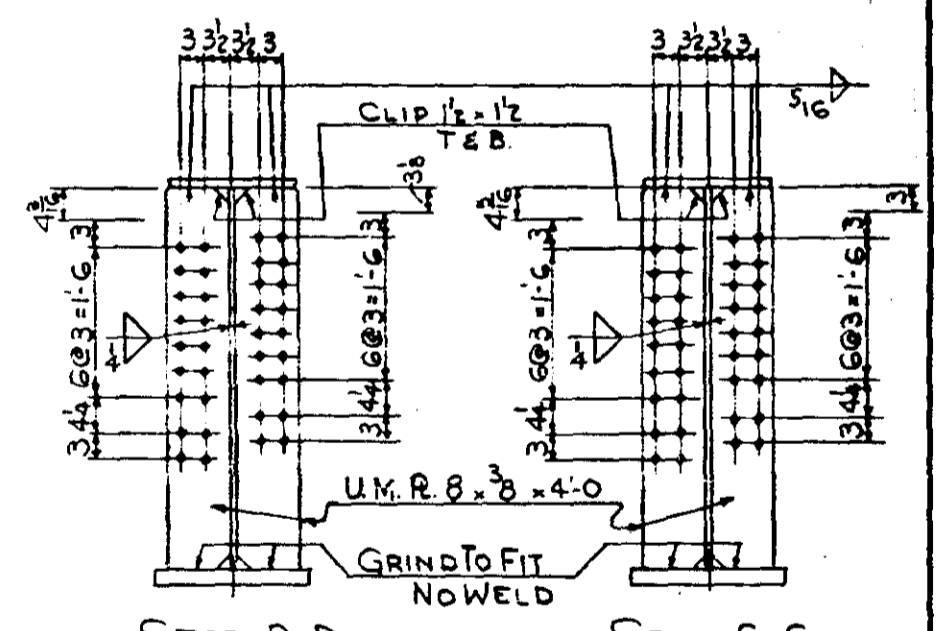
Structure: M.H.D. NO 9340
Location: MPLS. MINN.
Contractor: INDUSTRIAL CONSTR. CO.
Made by: I.I. Checked by: WES
Date: 9-1 Shop: 9-1
ORDER NO. 32647 DRAWING NO. 103

NO.	REVISION	Made by	Date
1	H.S. RIVET HOLES	WES	9/26



SECT. F-F

SECT. G-G

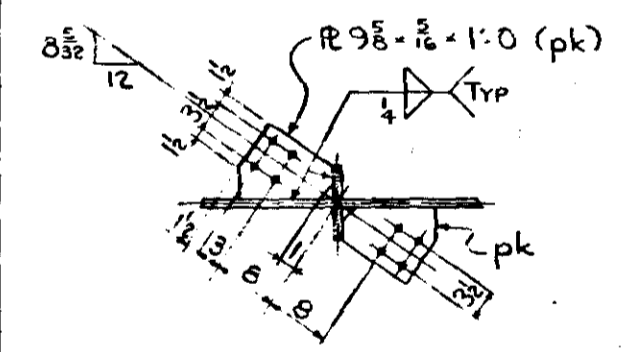


SECT. P-P

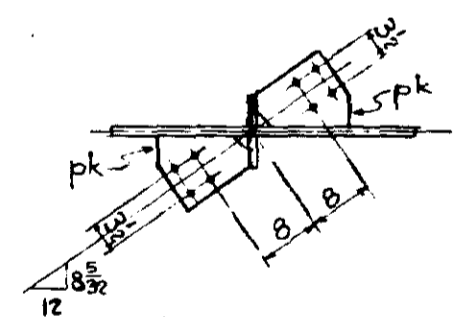
SECT. S-S

GENERAL NOTE SEE DWG. 100

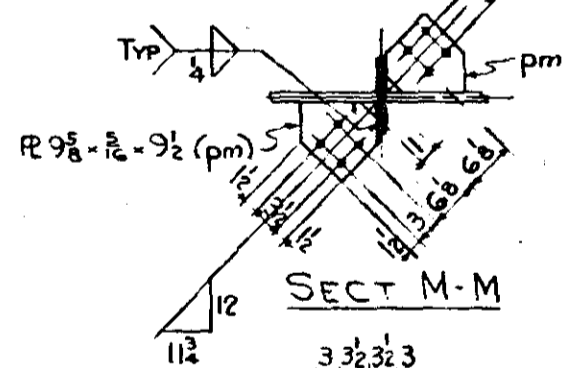
REO'D - I - GIRDER THUS G104



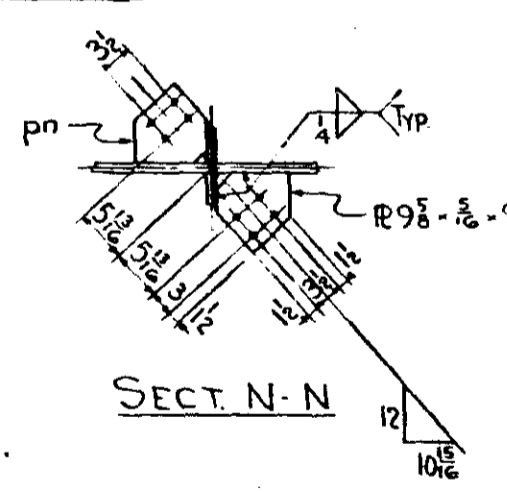
SECT. H-H



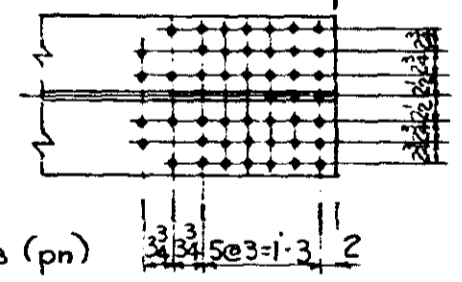
SECT. K-K



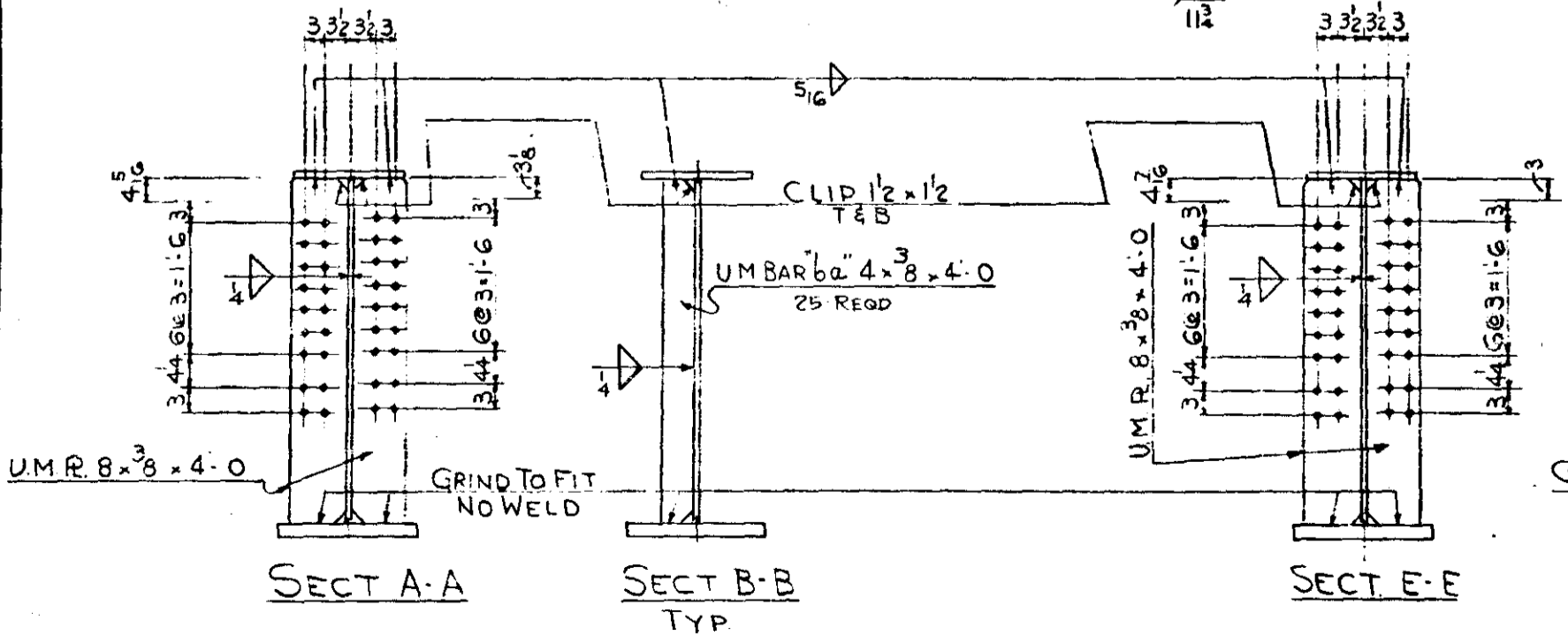
SECT. M-M



SECT. N-N



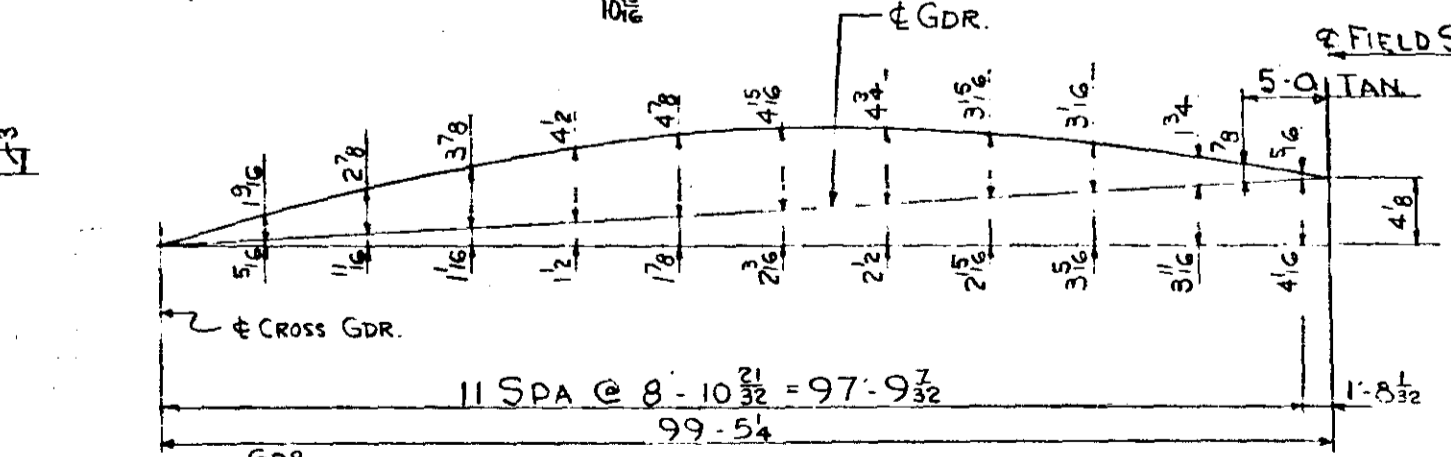
SECT. D-D



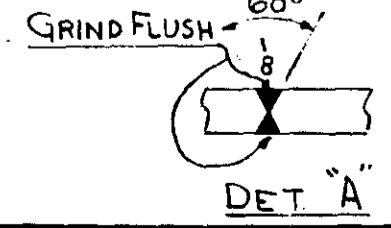
SECT. A-A

SECT. B-B TYP

SECT. E-E



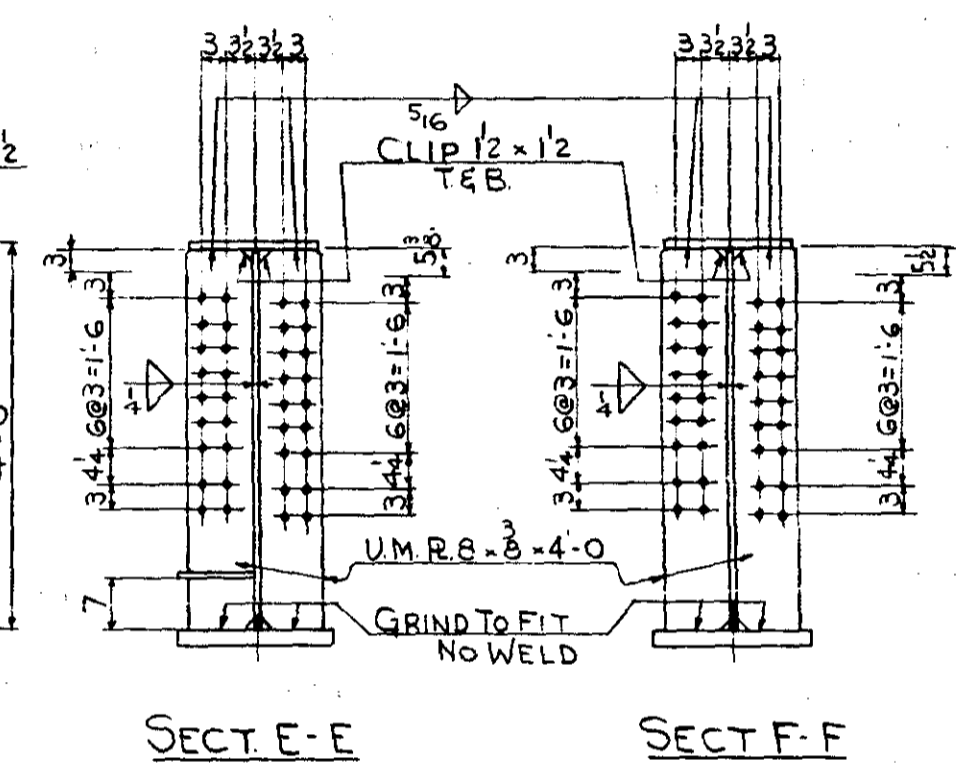
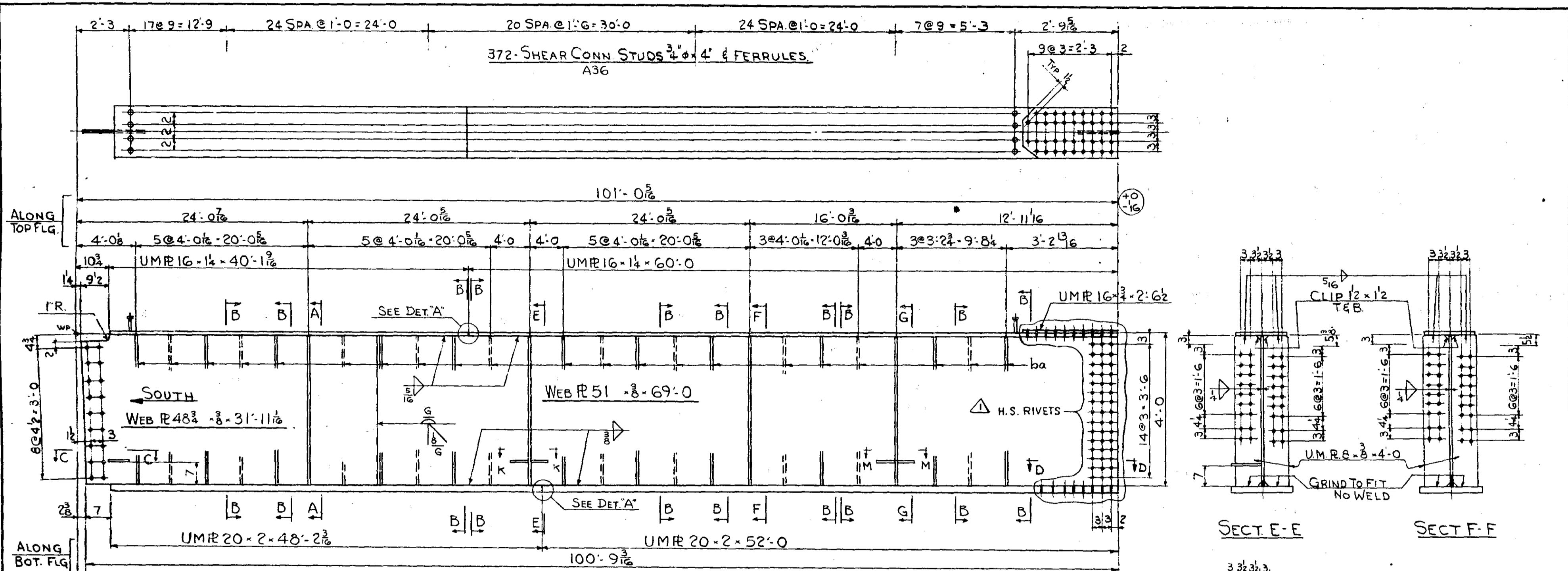
CAMBER DIAGRAM



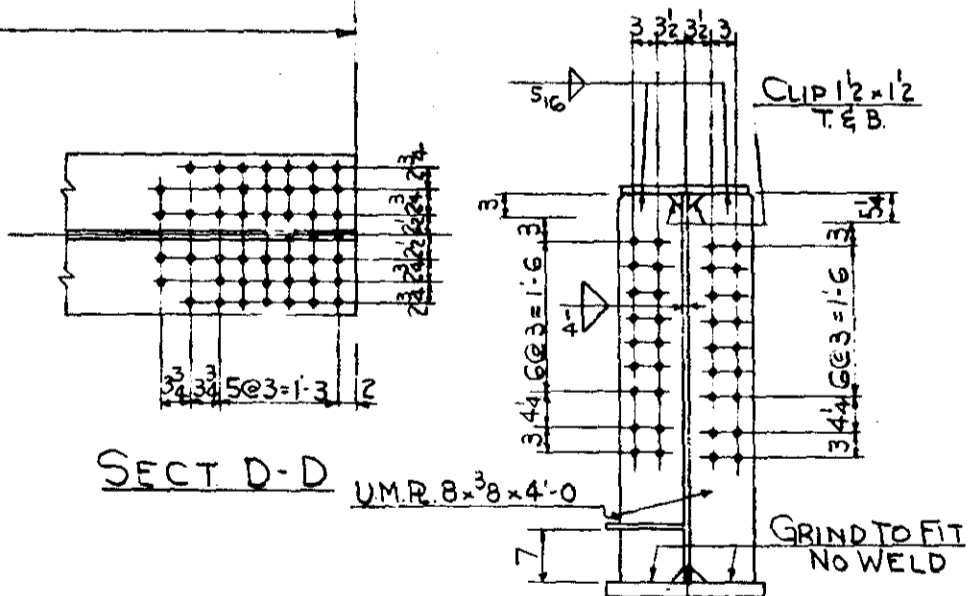
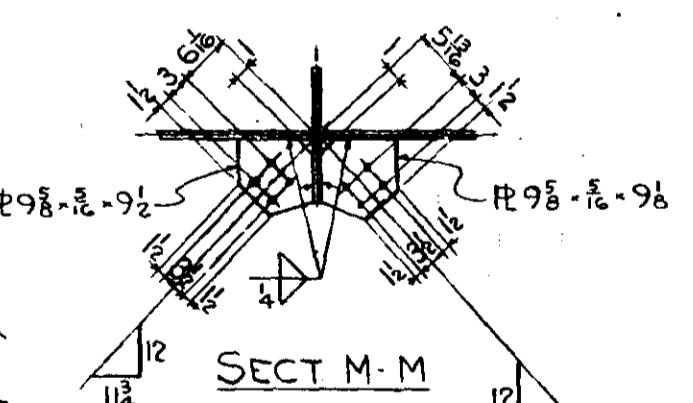
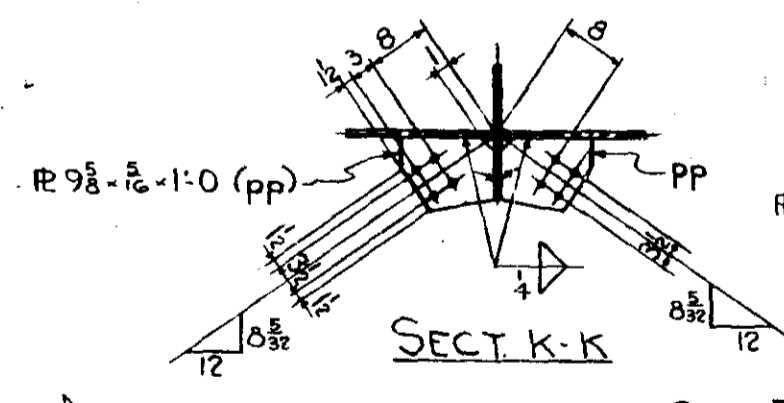
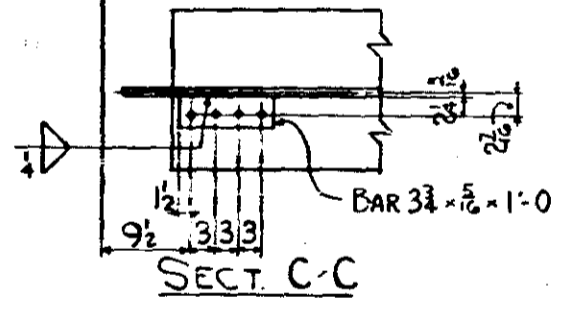
DET. A

NO.	REVISION	Made by	Date
1	H.S. RIVET HOLES	WES	9/26

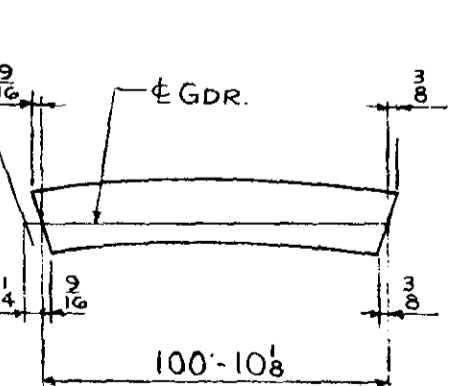
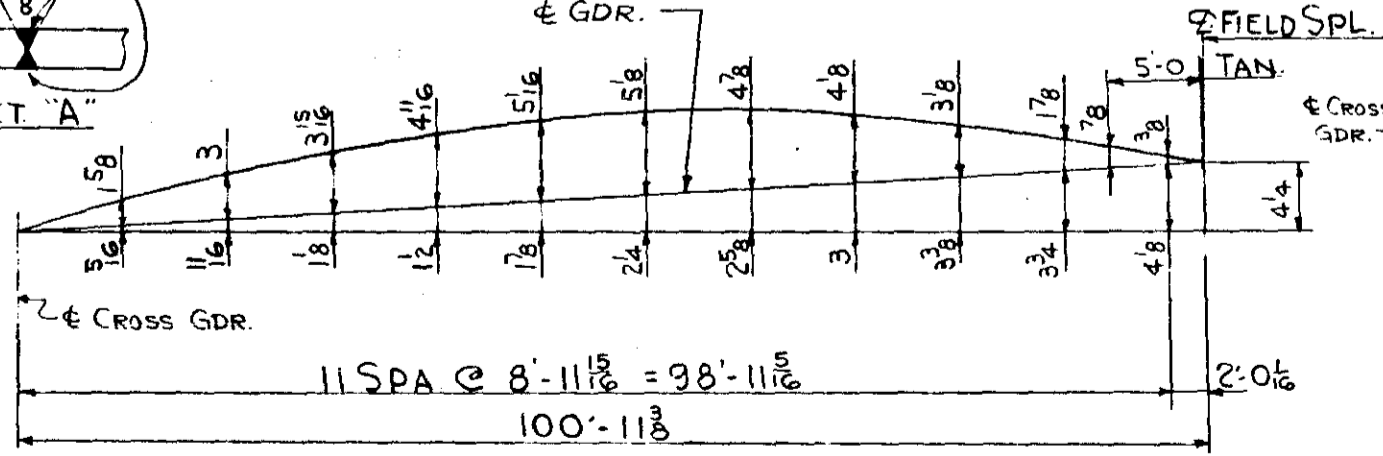
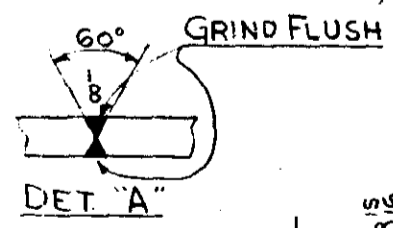
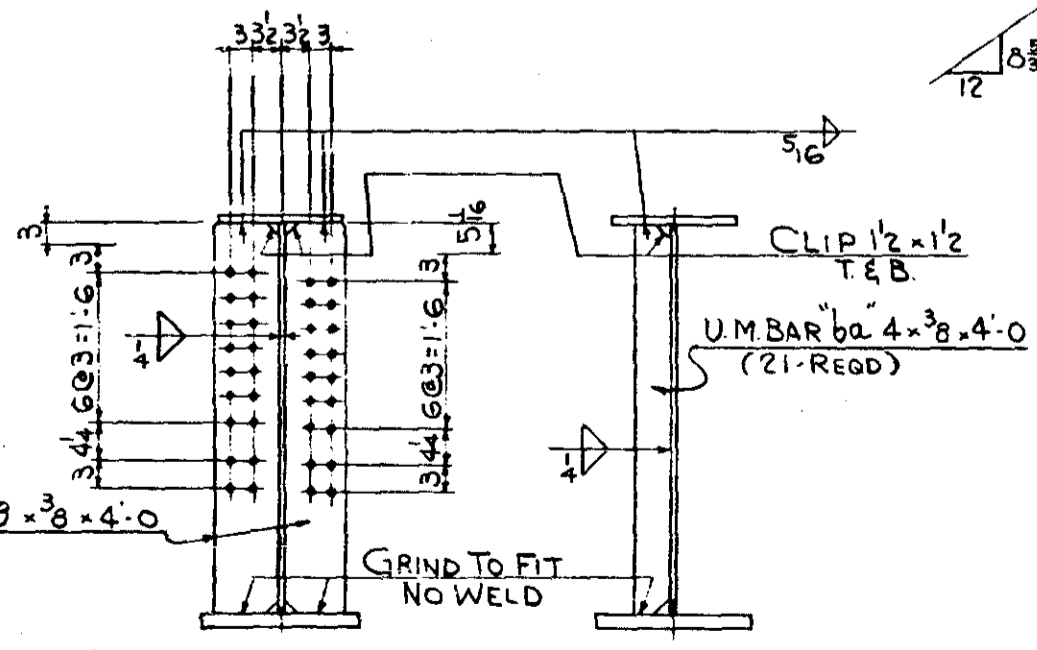
MINN. PROJ. NO. IG 35W-3(58)112
 S.P. NO. 2783-9340B (T.H. 35W-394)
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.
GIRDER-DETAILS
 Structure: M.H.D. No. 9340
 Location: MPLS. MINN.
 Contractor: INDUSTRIAL CONSTR. CO.
 Made by: I.I. Checked by: WES
 Date: 9-1 Shop: 2-1
 ORDER NO. 32647 DRAWING NO. 104
 FORM 13-301



REQ'D-1- GIRDER THUS G105



GENERAL NOTE SEE DWG# 100



MINN PROJ NO. IG 35W-3(S8)112
 SPNO. 2783-9340B (TH. 35W-394)

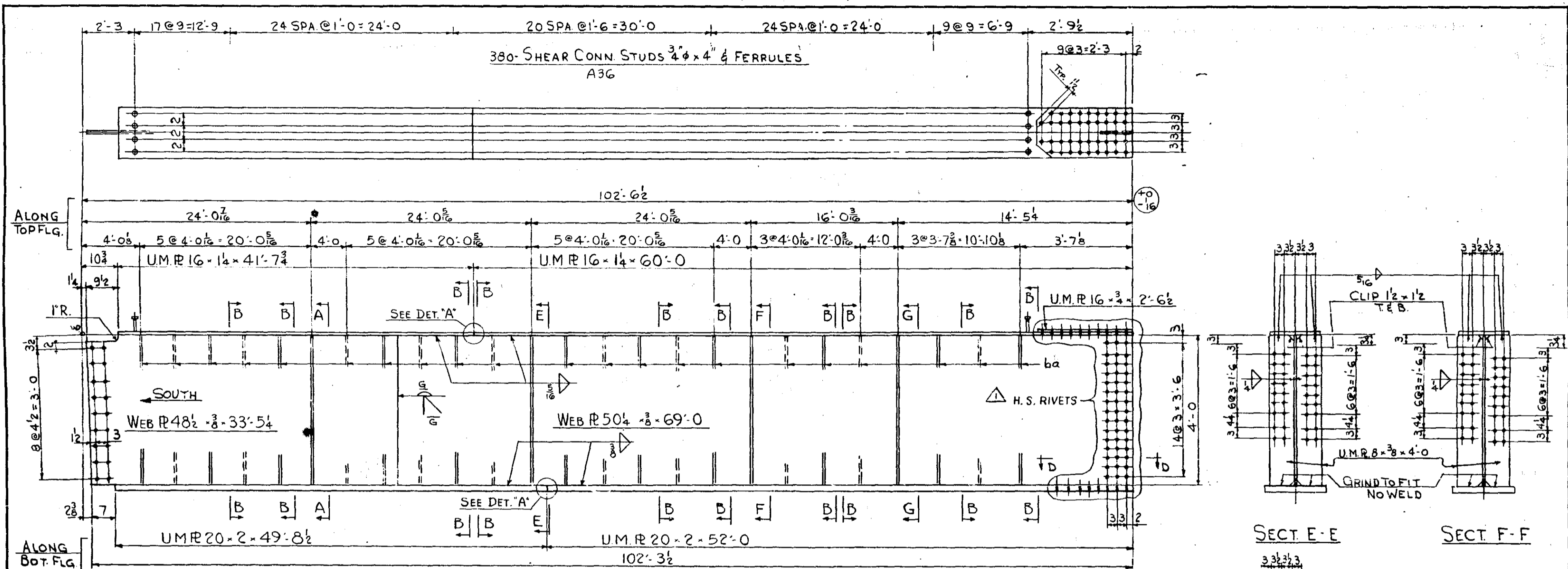
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

GIRDER-DETAILS

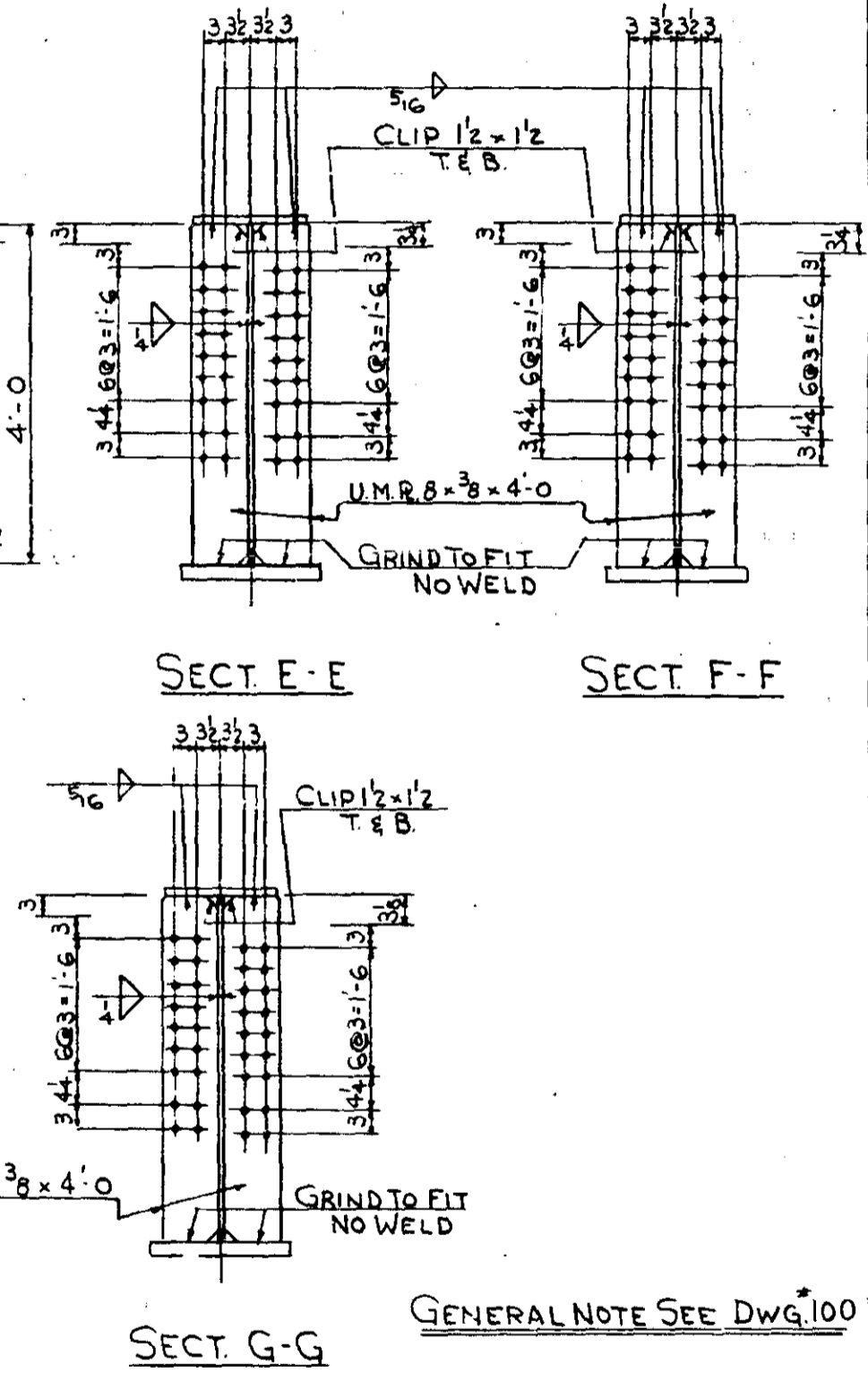
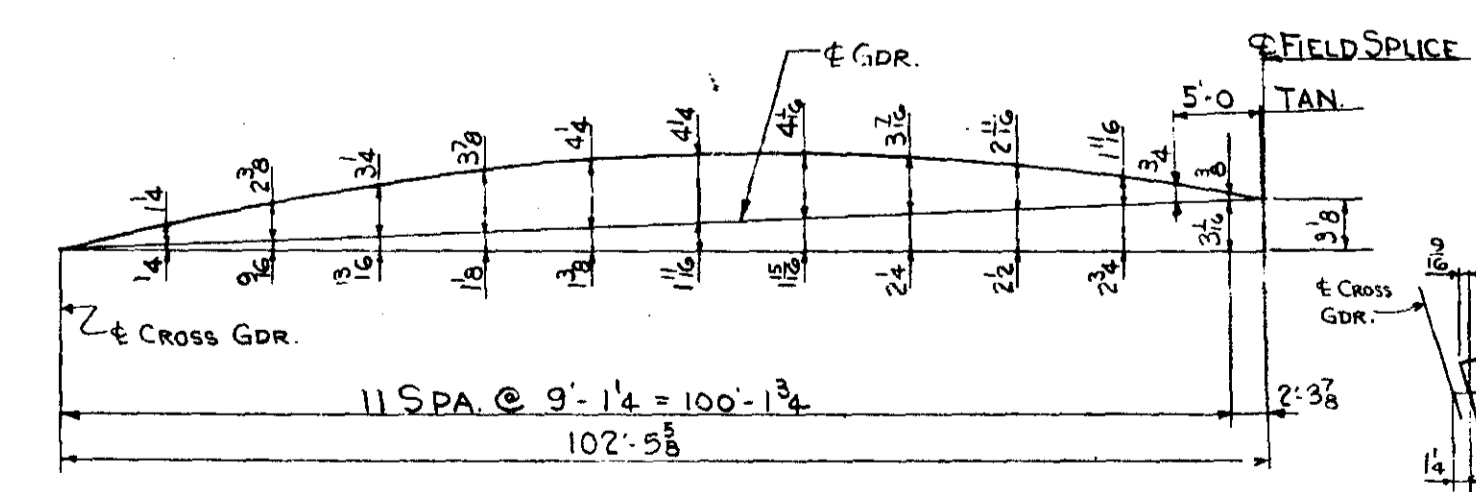
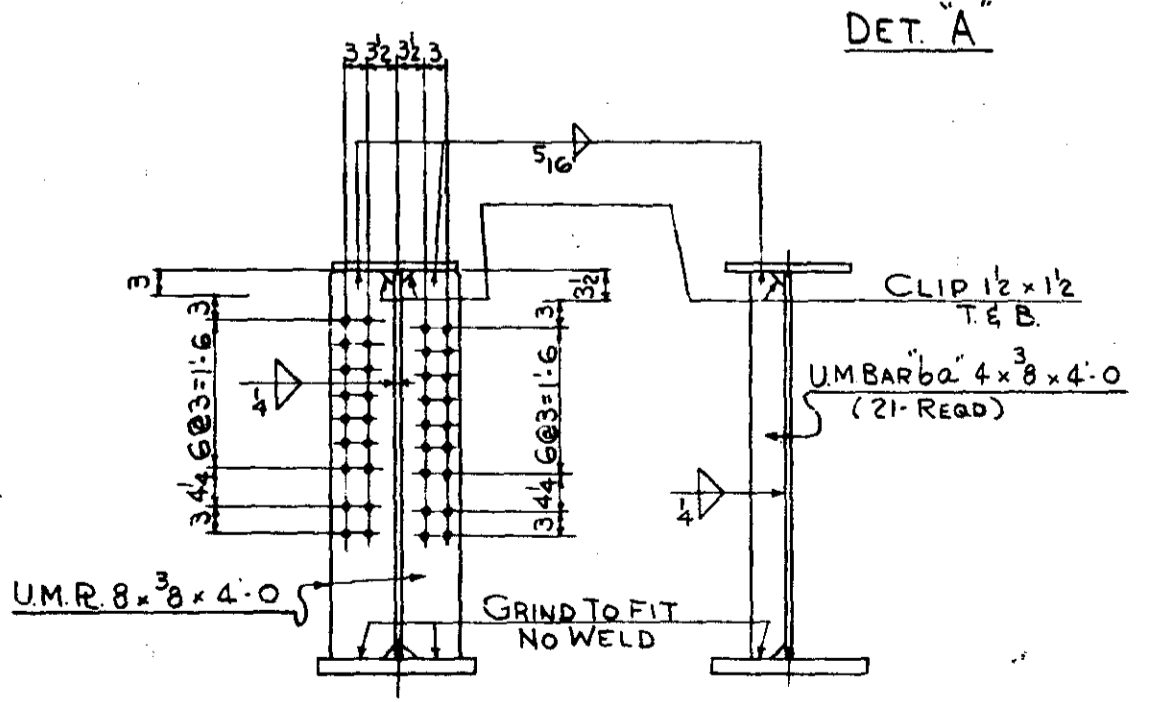
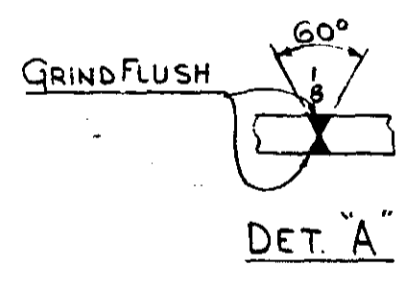
Structure M.H.D NO. 9340
 Location MPLS MINN
 Contractor INDUSTRIAL CONSTR. CO
 Made by I I Checked by WES
 Date ORDER NO. 32647 Shop 2-1
 DRAWING NO. 105

NO.	REVISION	Made by	Date
	△ H.S. RIVET HOLES	WES	9/26

FORM 16-15H



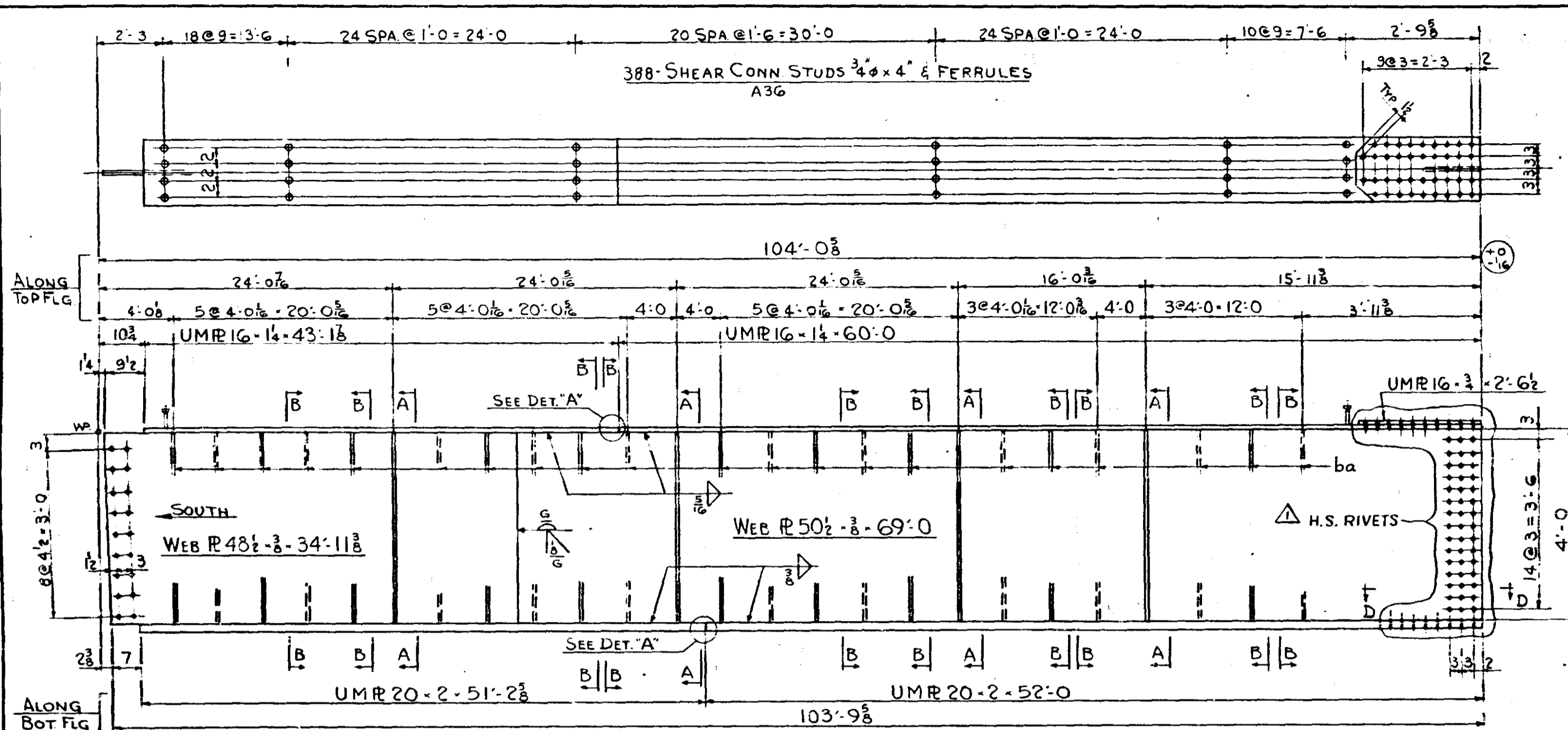
REQ'D-1- GIRDER THUS G106



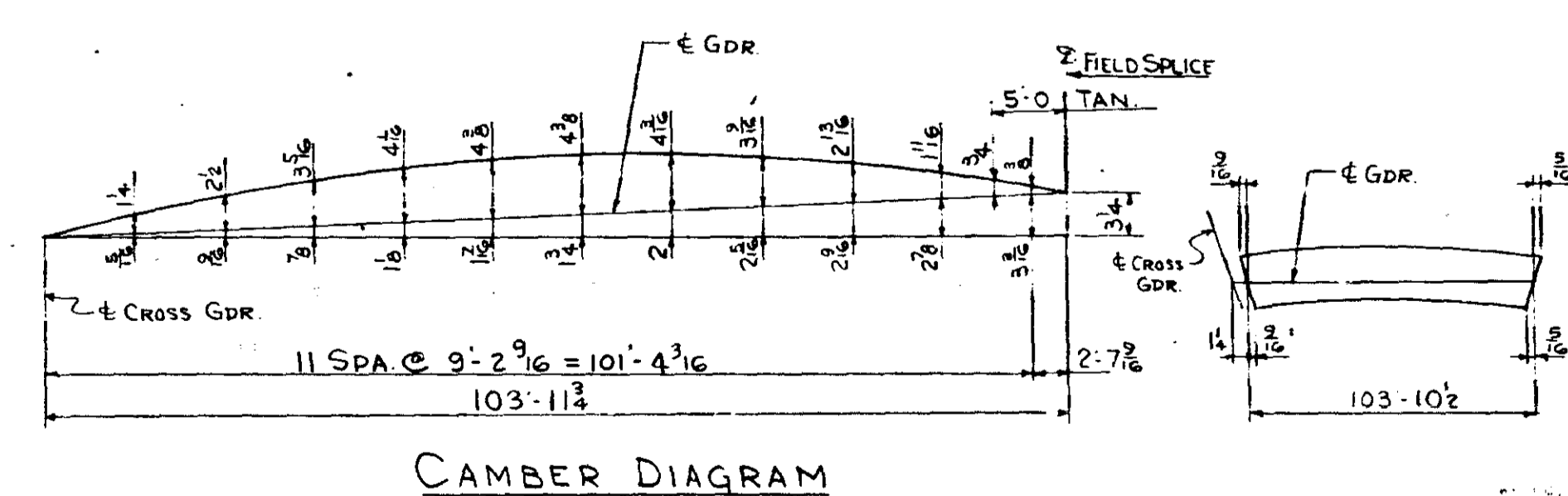
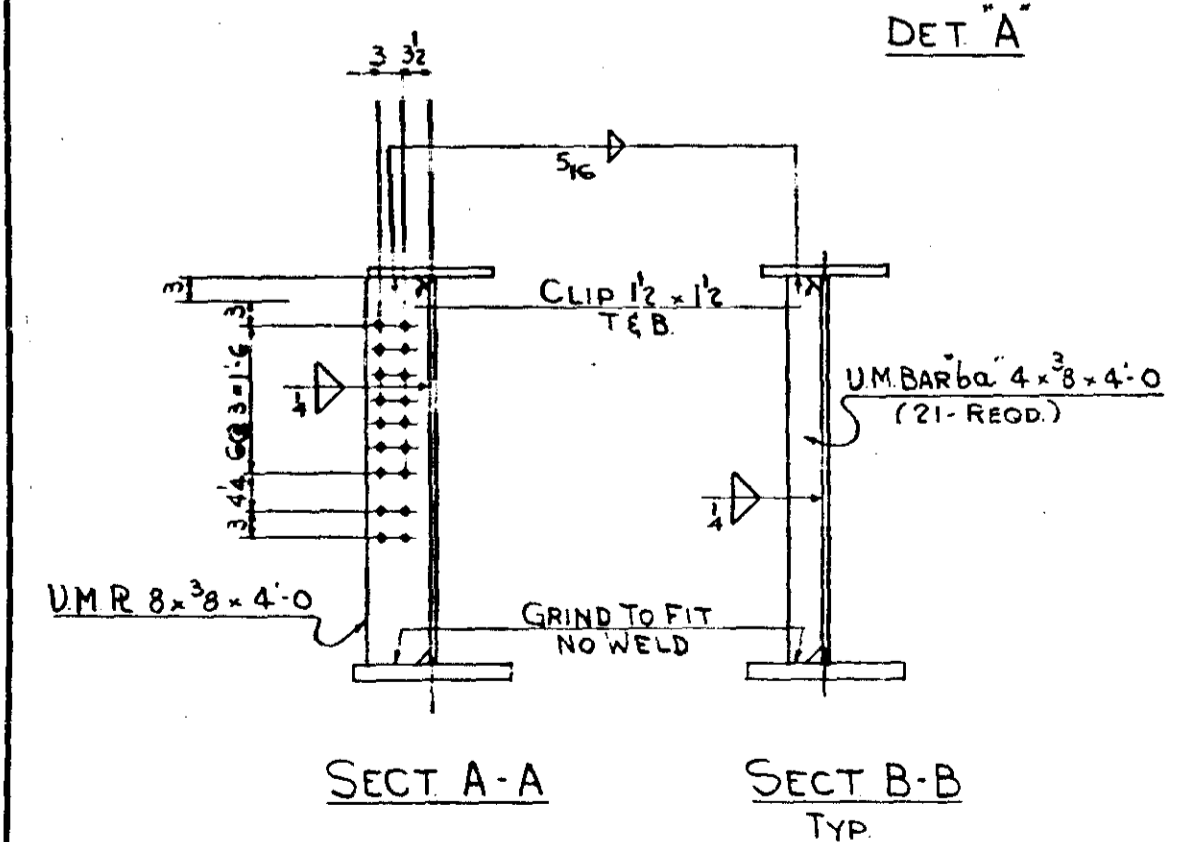
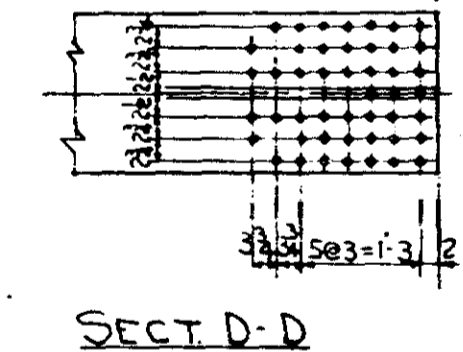
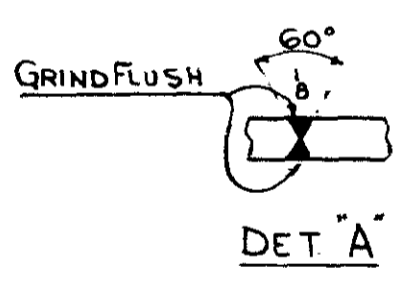
GENERAL NOTE SEE DWG. 100

MINN. PROJ. NO. I-IG 35W-3(58)112
 S.P. NO. 2783-9340B (T.H. 35W-394)
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.
GIRDER-DETAILS
 Structure M.H.D. NO. 9340
 Location MPLS. MINN.
 Contractor INDUSTRIAL CONSTR. CO.
 Made by I.I. Checked by WES
 Date Shop 9-1
 ORDER NO. 32647 DRAWING NO. 106
 FORM 18-551

NO.	REVISION	Made by	Date
1	H.S. RIVET HOLES	WES	9/26



REQ'D - 1- GIRDER THUS G107



GEN. NOTES SEE DRWG #100

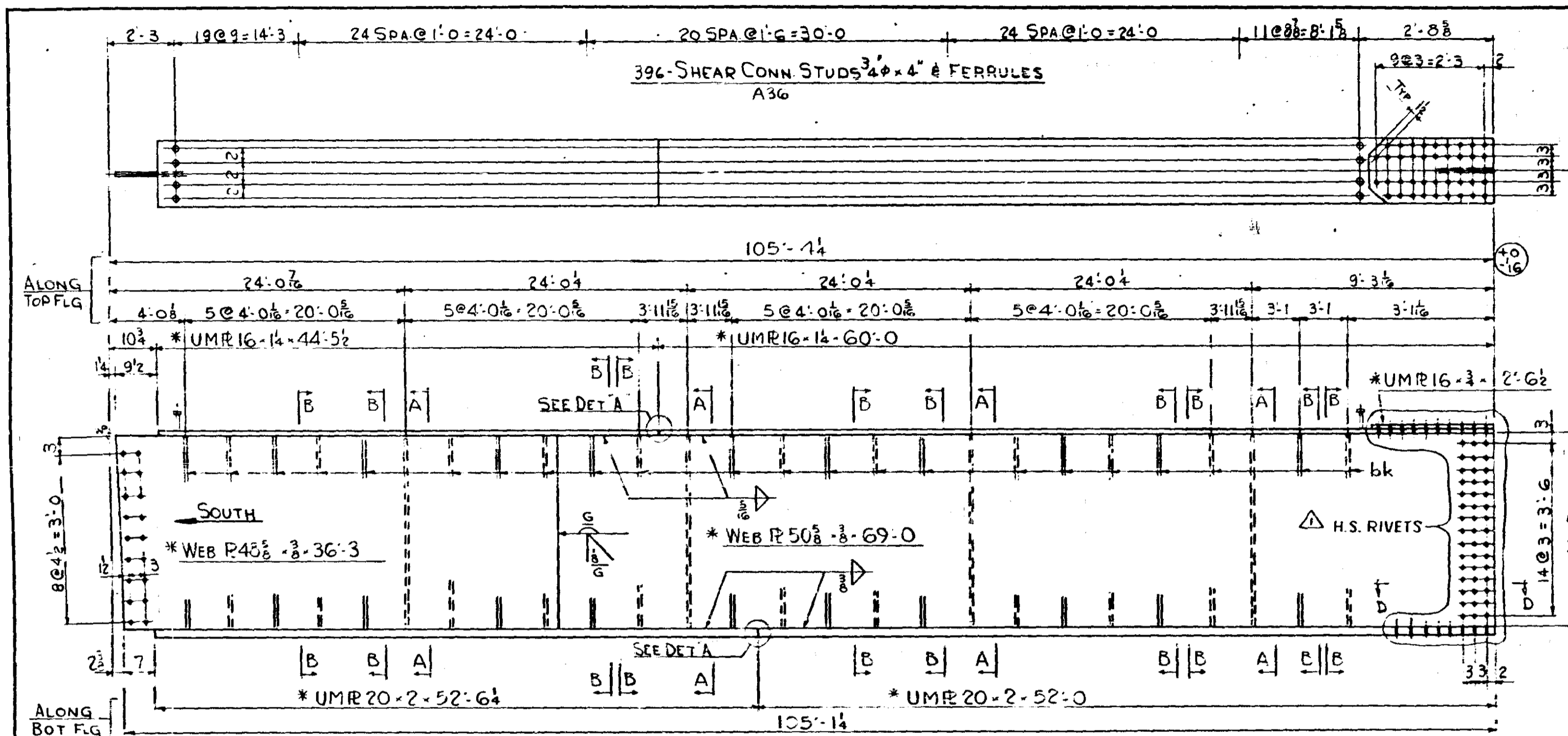
MINN. PROJ No IIG 35W-3(58)112
 S.P. No. 2783-9340B (T.H. 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

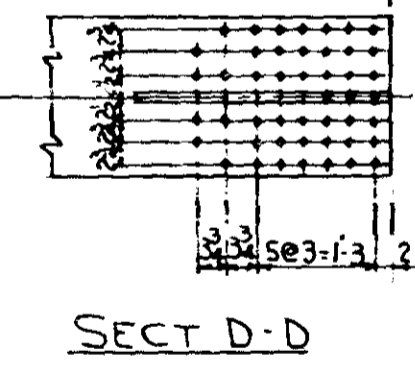
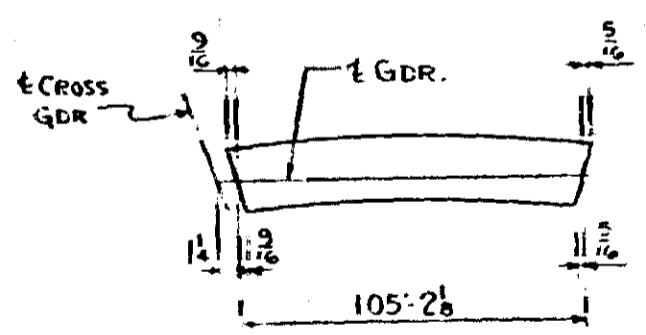
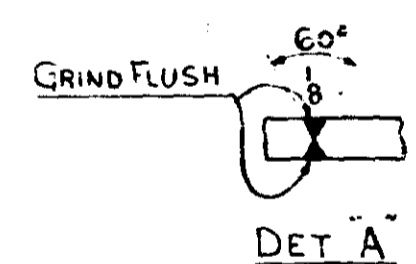
GIRDER-DETAILS
 Structure M.H.D. NO. 9340
 Location MPLS. MINN.
 Contractor INDUSTRIAL CONSTR. CO.
 Made by I.I. Checked by WES
 Date Shop 9-1

ORDER NO. 32647 DRAWING NO. 107

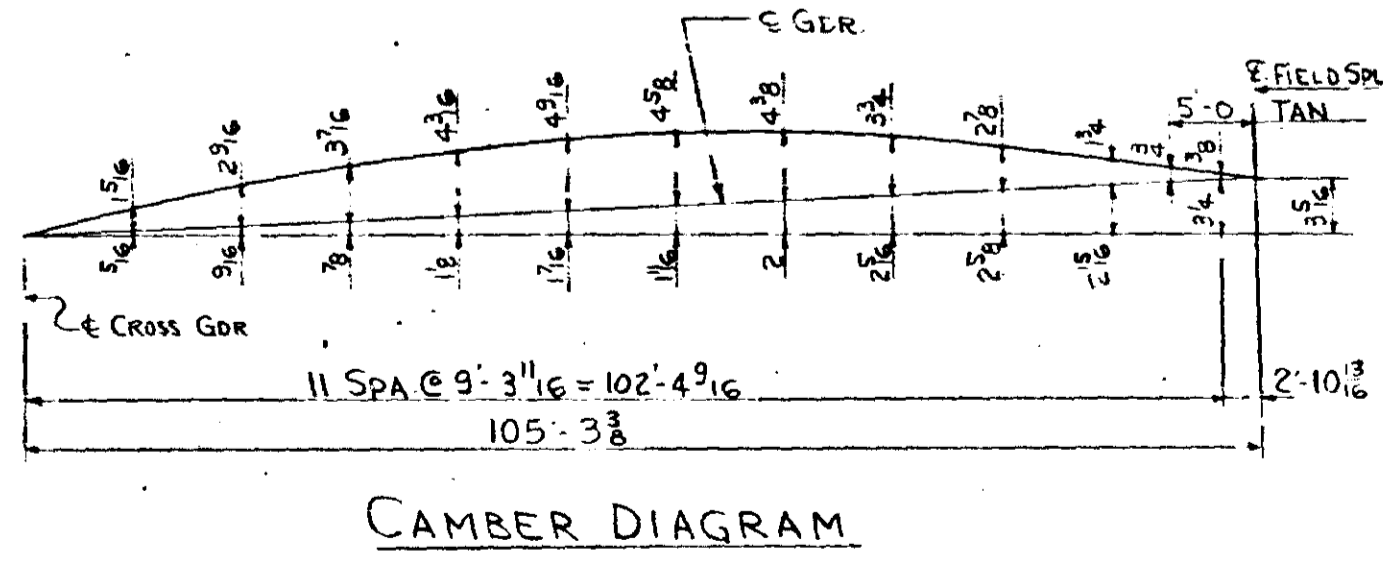
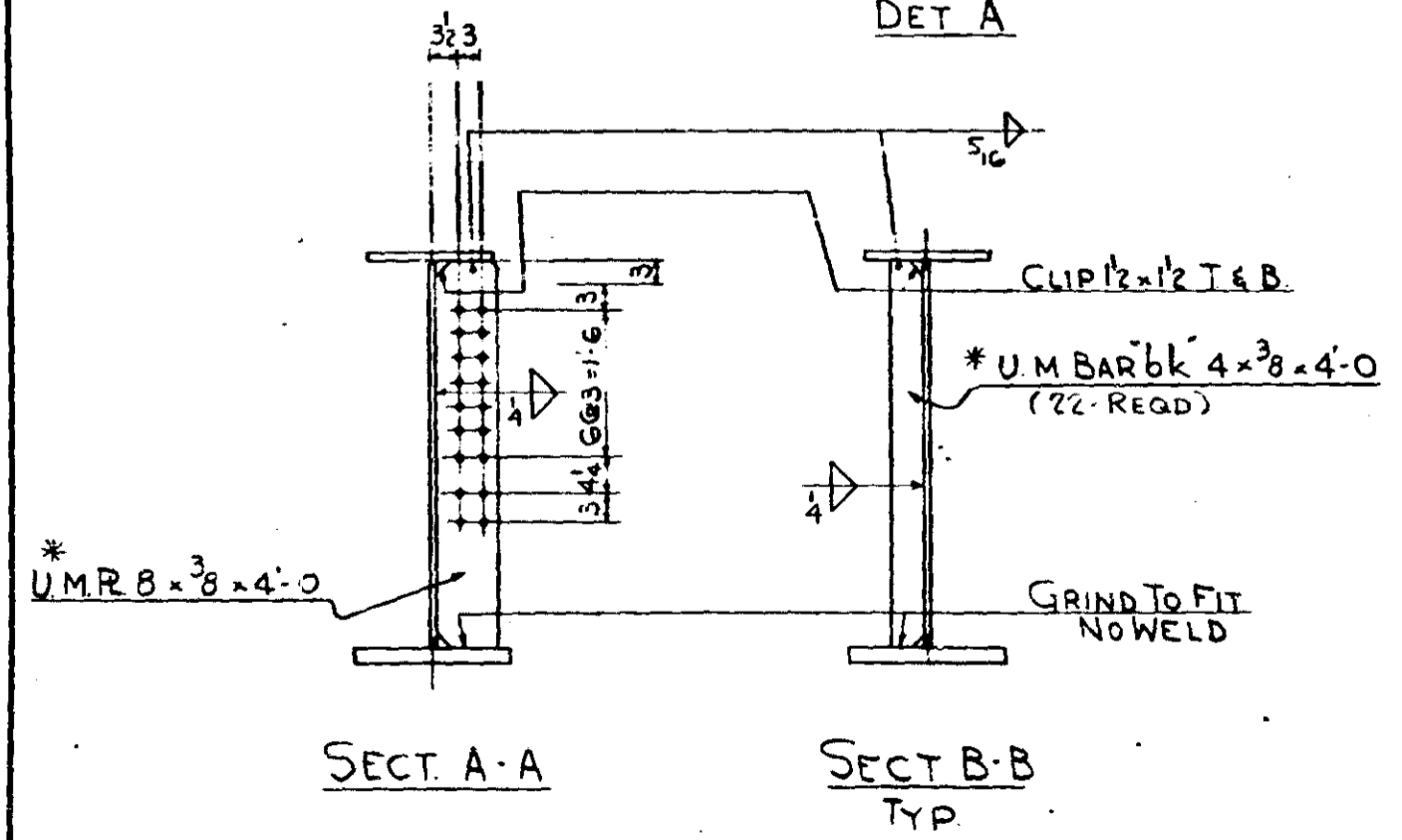
NO.	REVISION	Made by	Date
1	H.S. RIVET HOLES	WES	9/26



REQ'D - 1 - GIRDER THUS G108



GENERAL NOTE SEE DRWG #100
EXCEPT MATERIAL MARKED THUS *
TO BE M.H.D. 3310

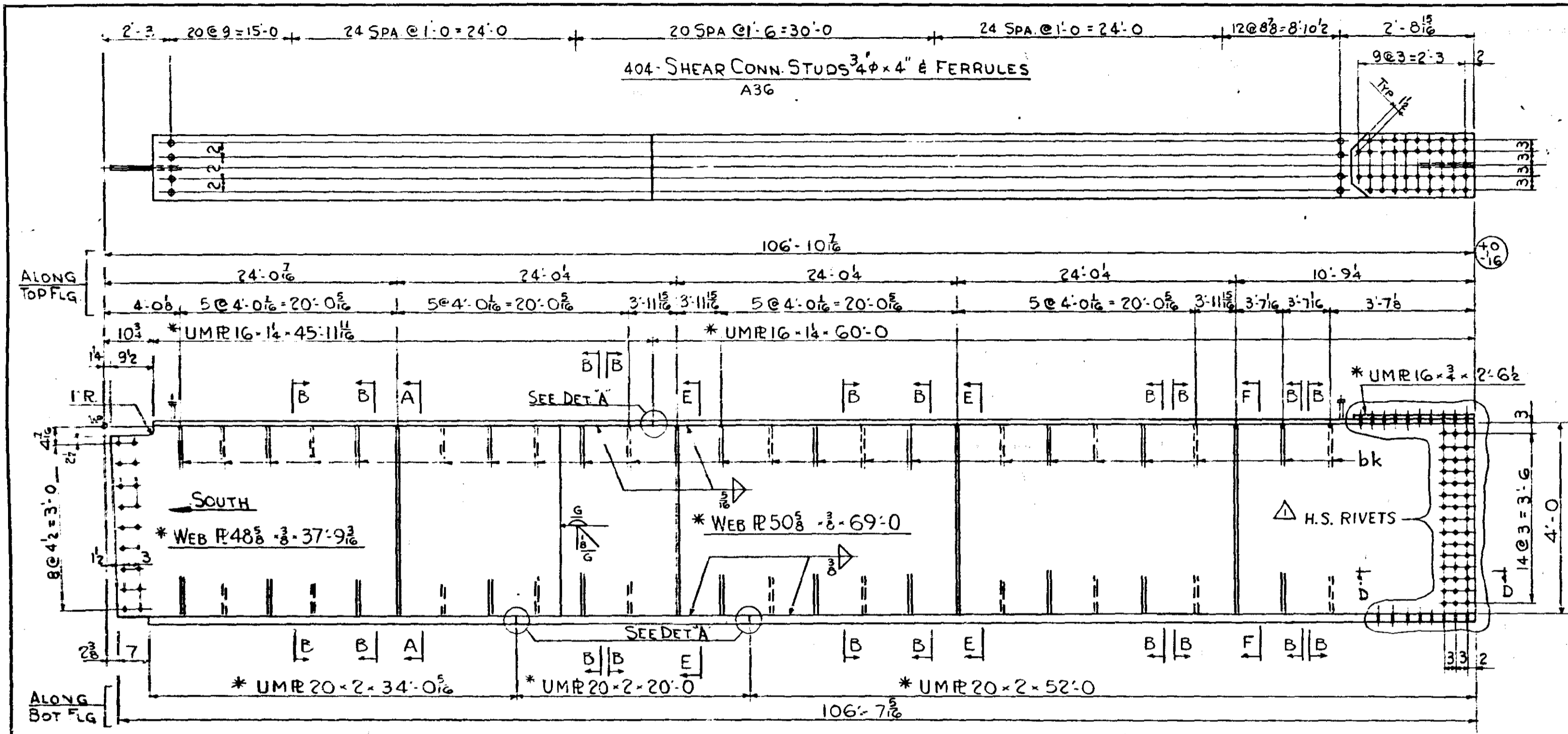


MINN PROJ No TIG 35W-3(58)112
SP No 2783-9340B (TH35W-394)

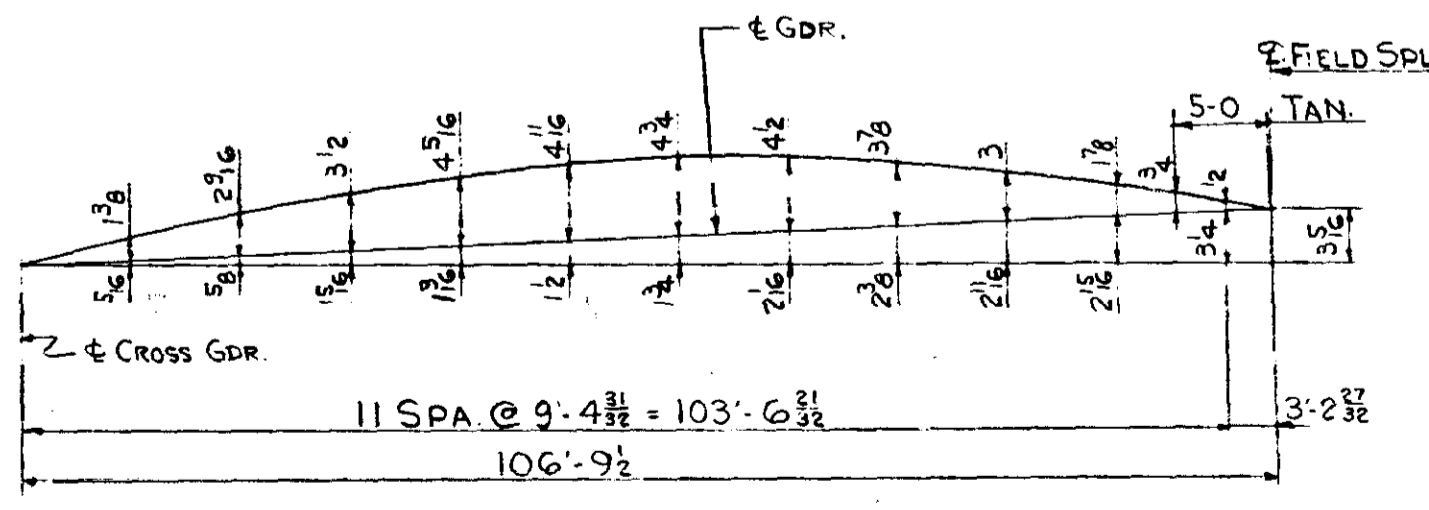
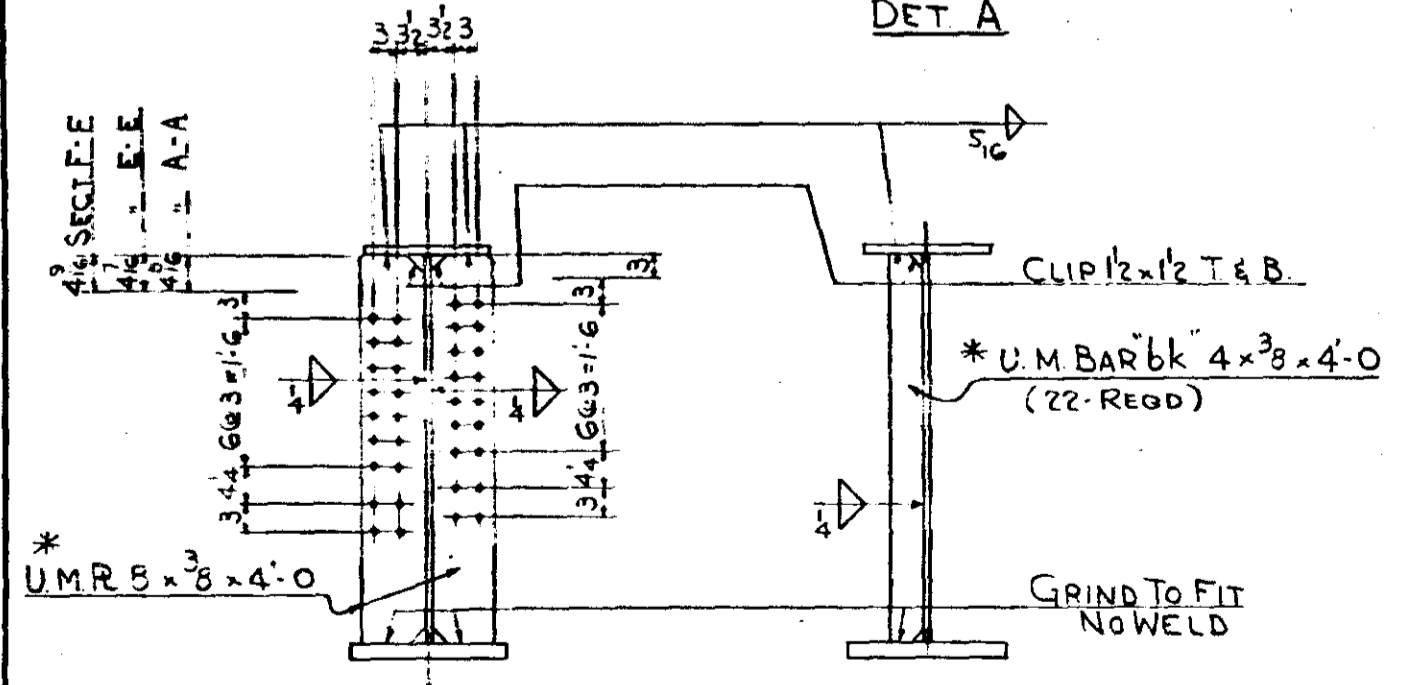
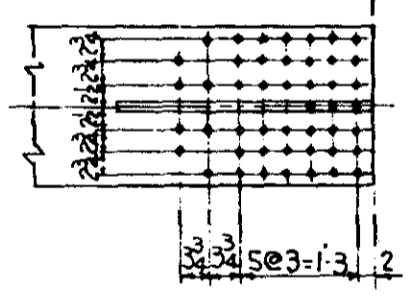
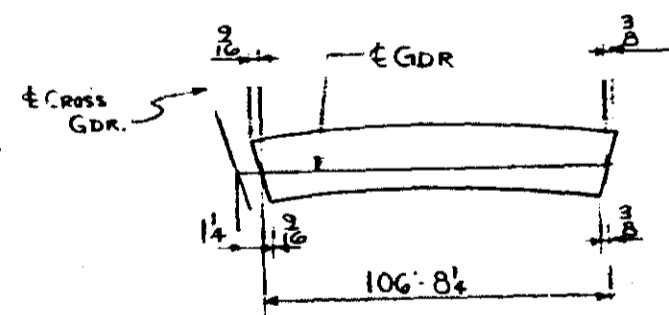
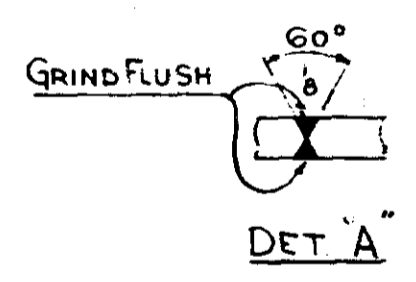
ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

GIRDER-DETAILS
Structure M.H.D. NO. 9340
Location MPLS. MINN.
Contractor INDUSTRIAL CONSTR. CO.
Made by I.I. Checked by WES
Date 9-1-21 Shop 9-1
ORDER NO. 32647 DRAWING NO. 108

NO.	REVISION	Made by	Date
1	H.S. RIVET HOLES	WES	9/26



REQ'D - 1 - GIRDER THUS G109



GENERAL NOTE SEE DWG. 100
EXCEPT MAT'L MARKED
THUS * TO BE M.H.D. 3310

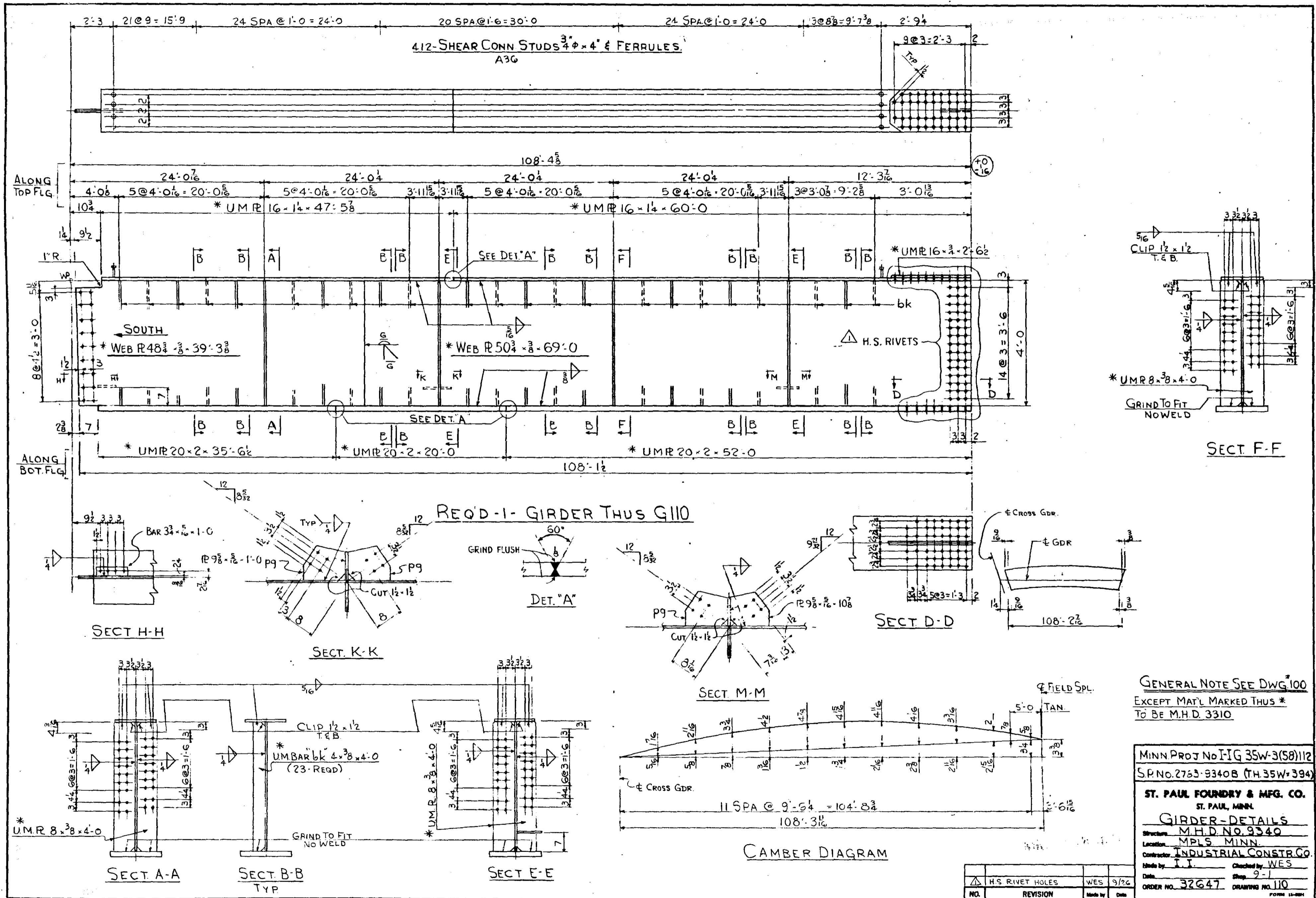
MINN PROJ. NO. IIG 35W-3(58)112
SP. NO. 2783-9340B (T.H. 35W-394)

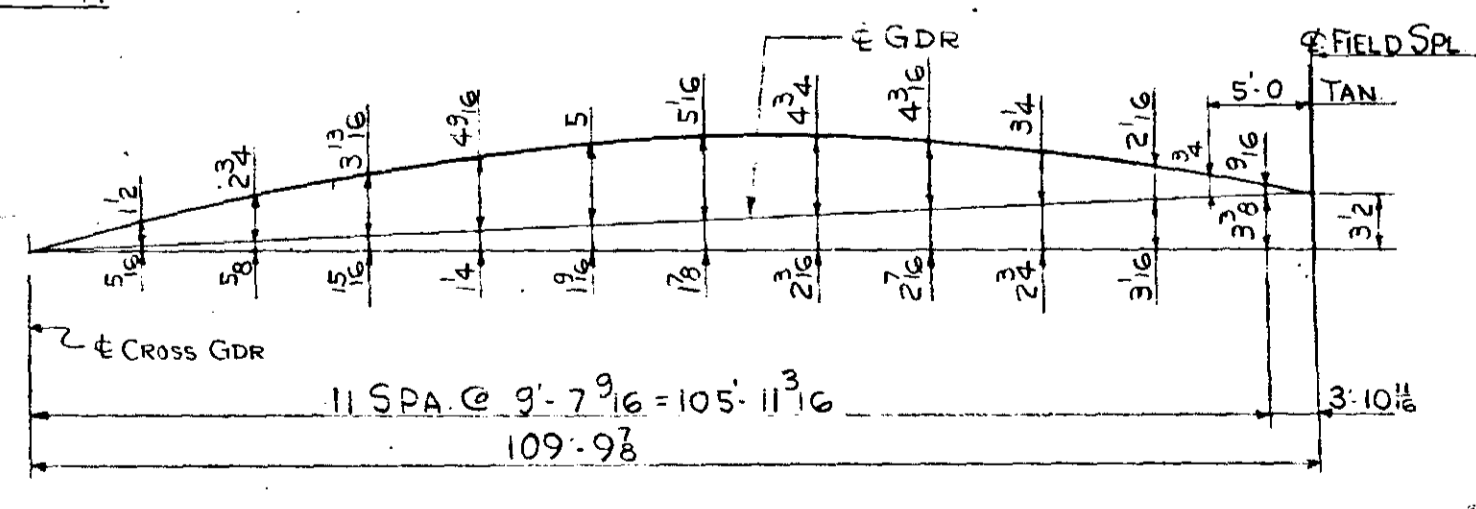
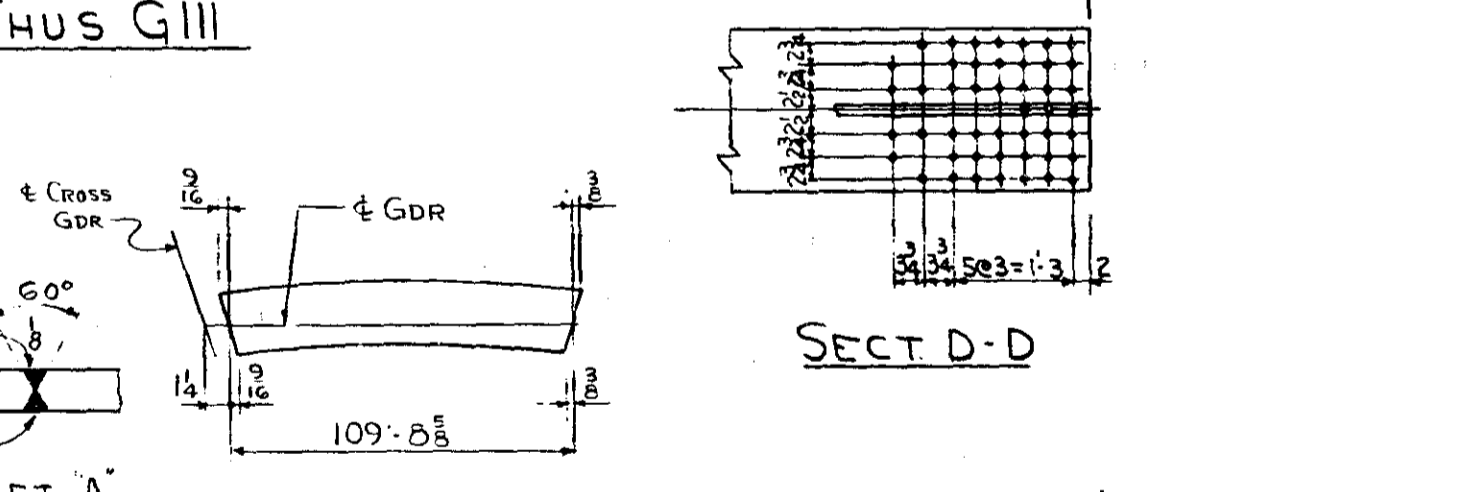
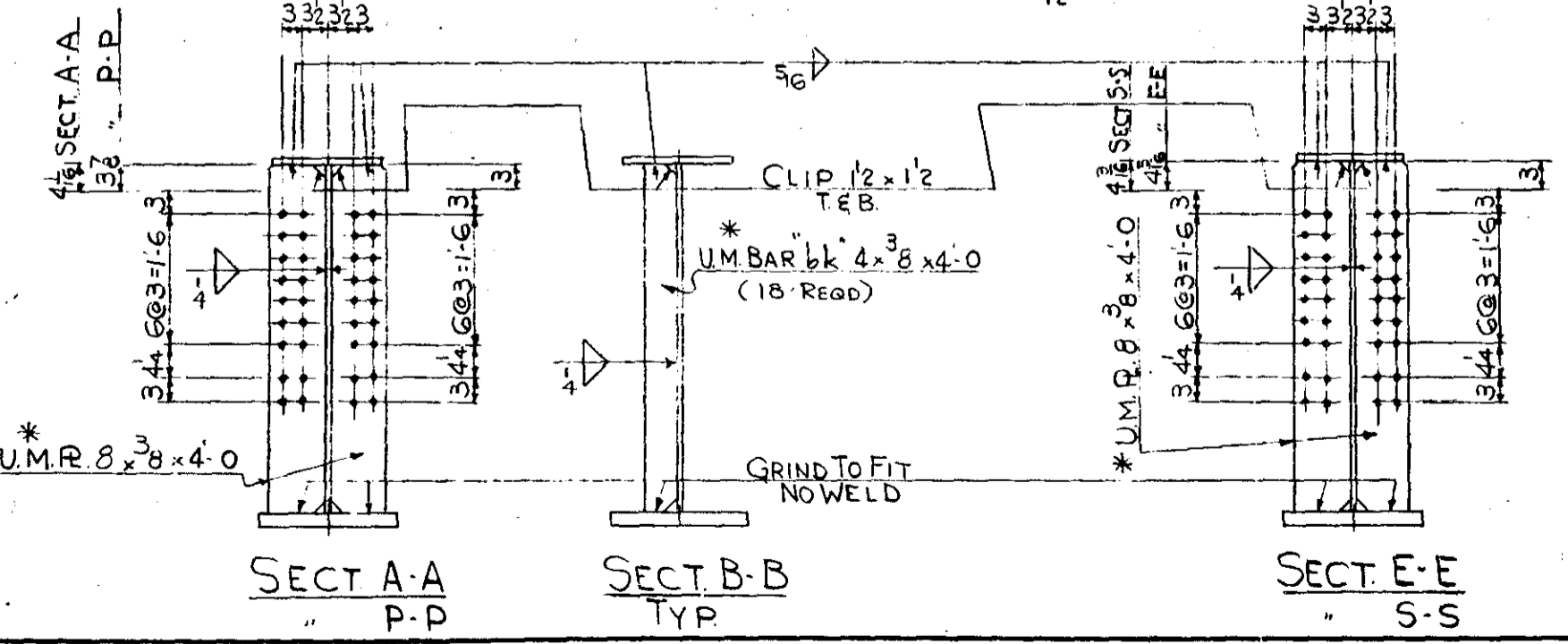
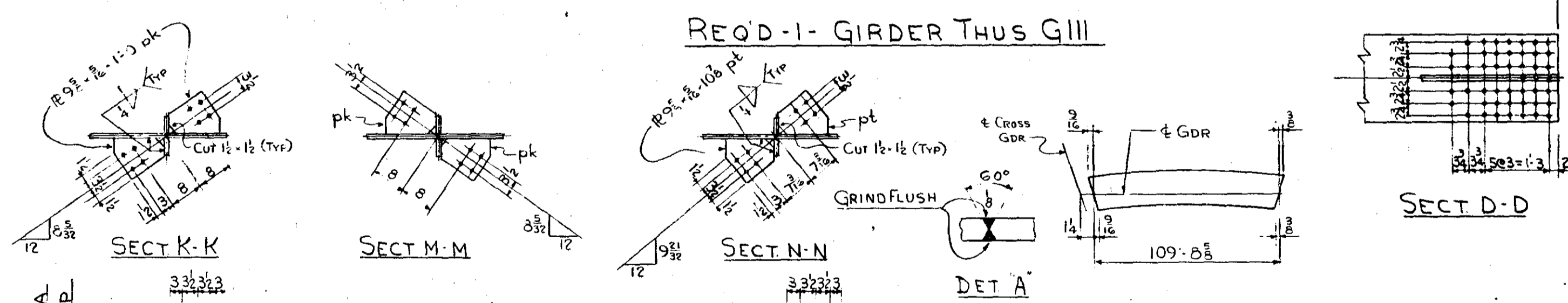
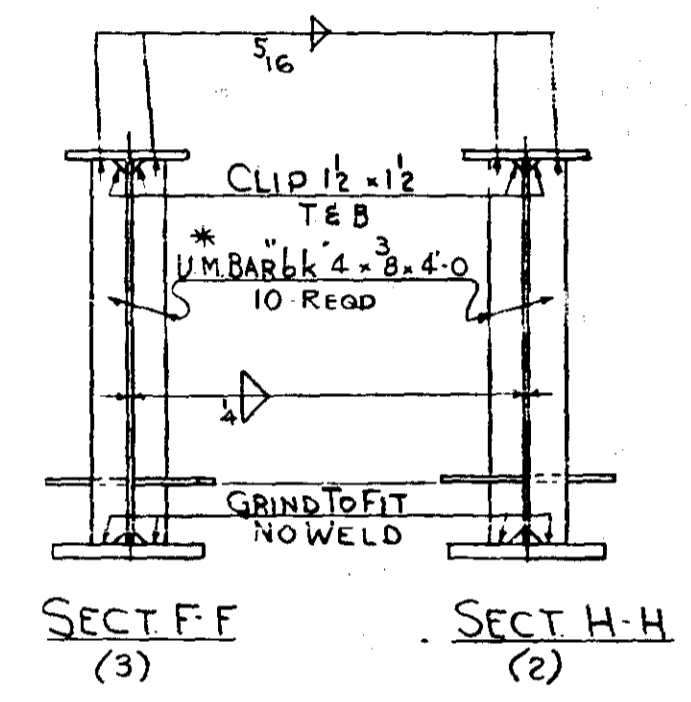
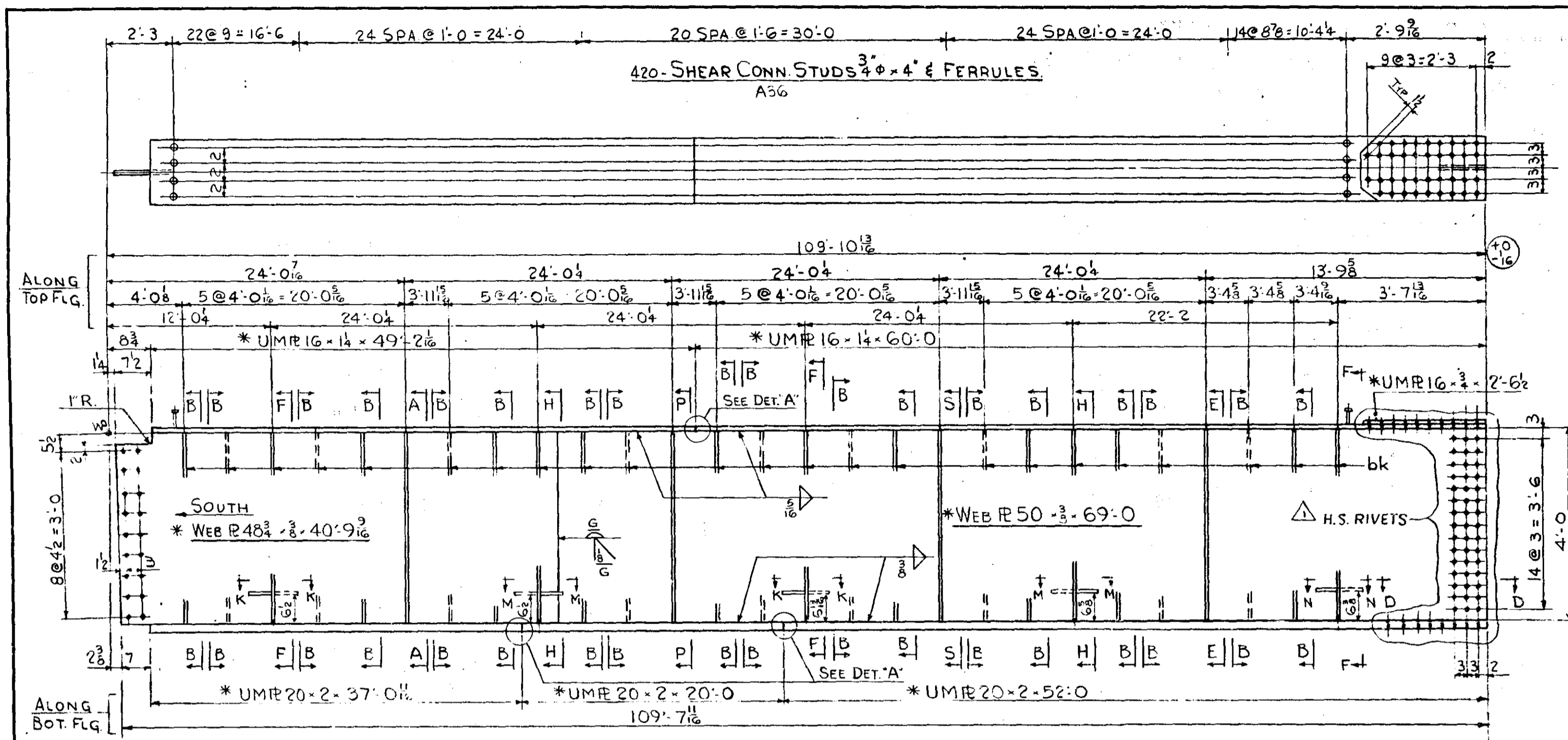
ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

GIRDER - DETAILS
Structure M.H.D. No. 9340
Location MPLS. MINN.
Contractor INDUSTRIAL CONSTR. CO.
Made by I.I. Checked by WES
Date 9-1 Shop 9-1
ORDER NO. 32647 DRAWING NO. 109

NO.	REVISION	Made by	Date
1	H.S. RIVET HOLES	WES	9/26

FORM 15-524





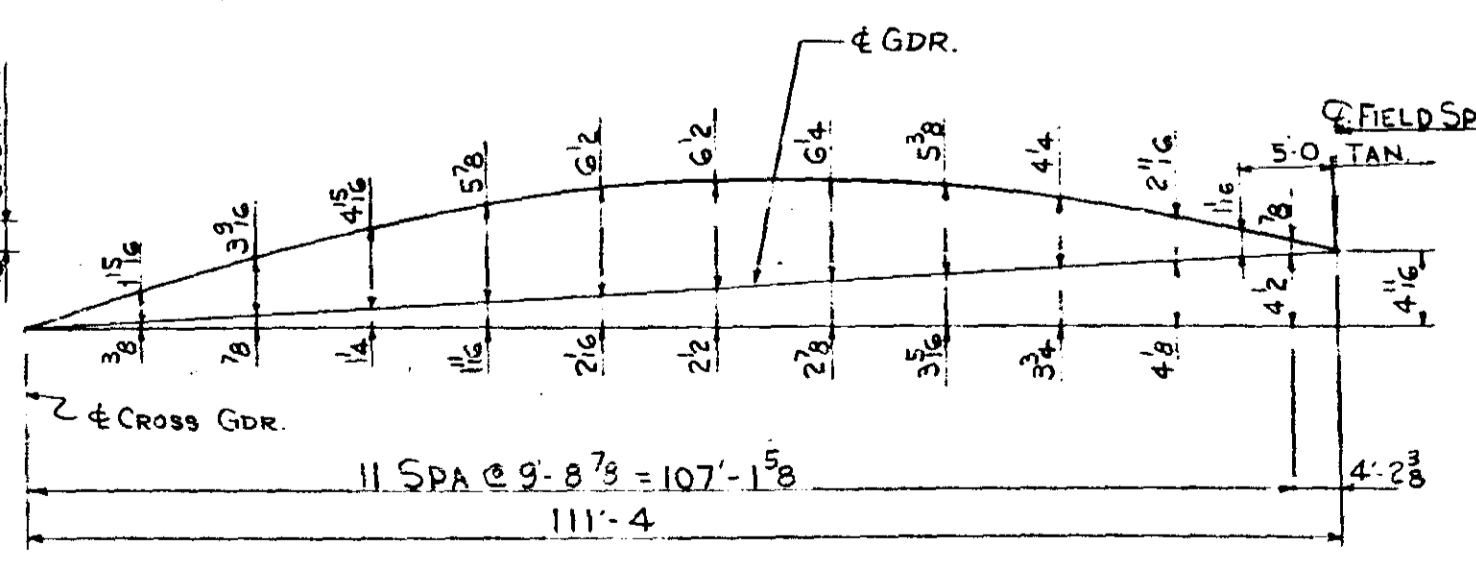
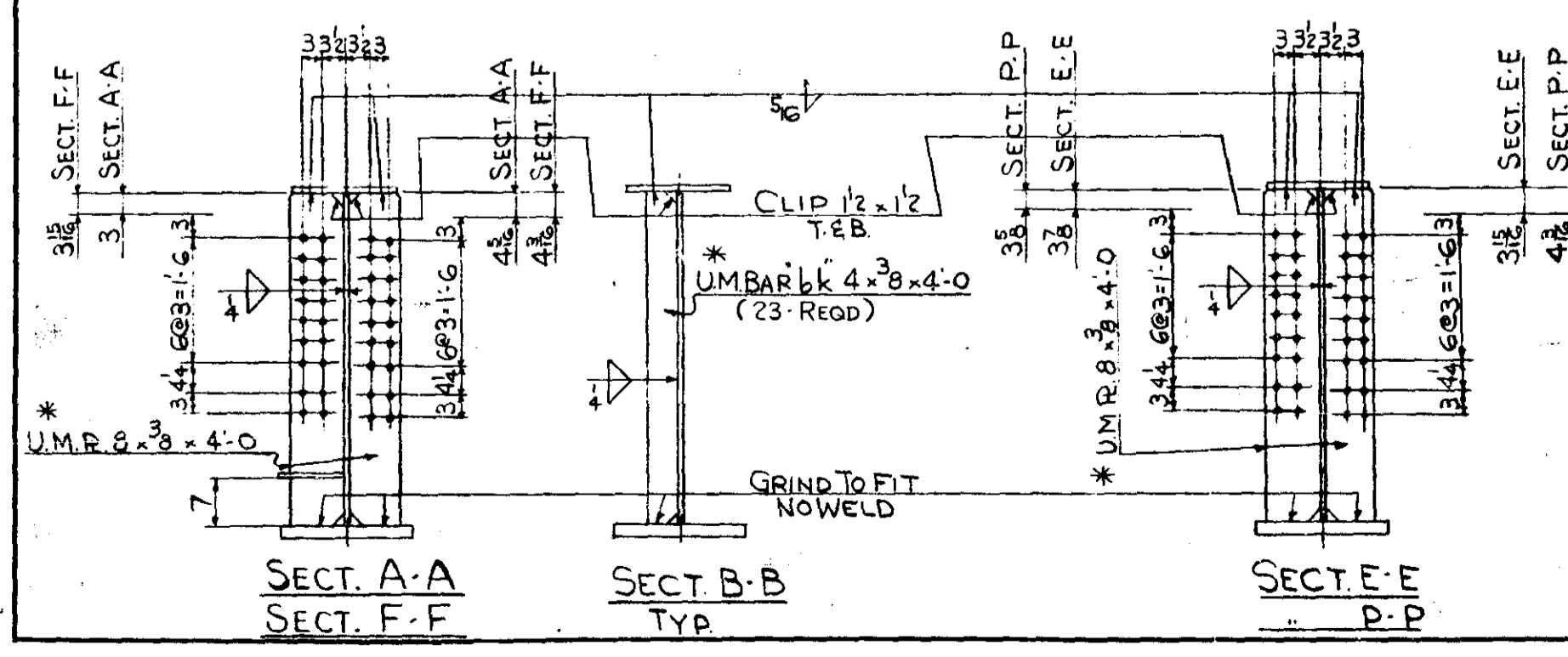
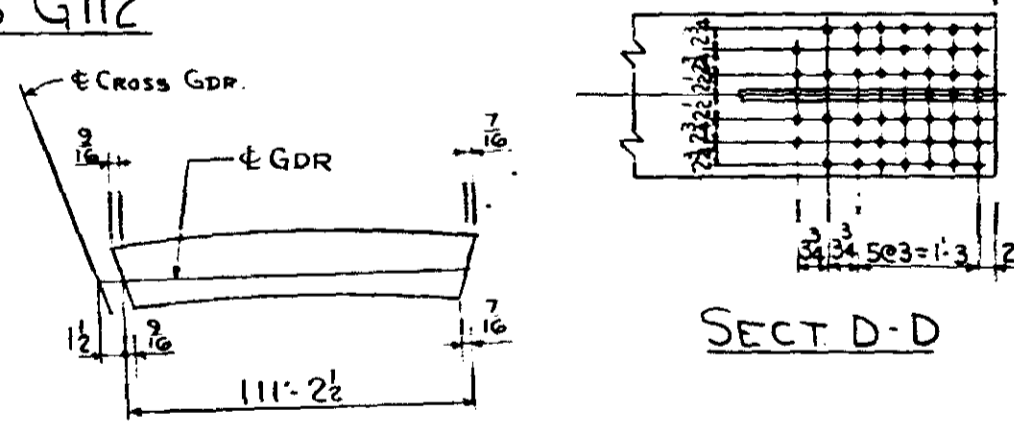
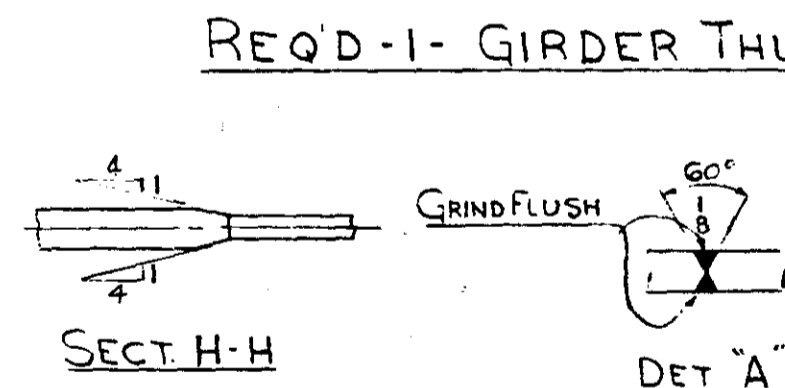
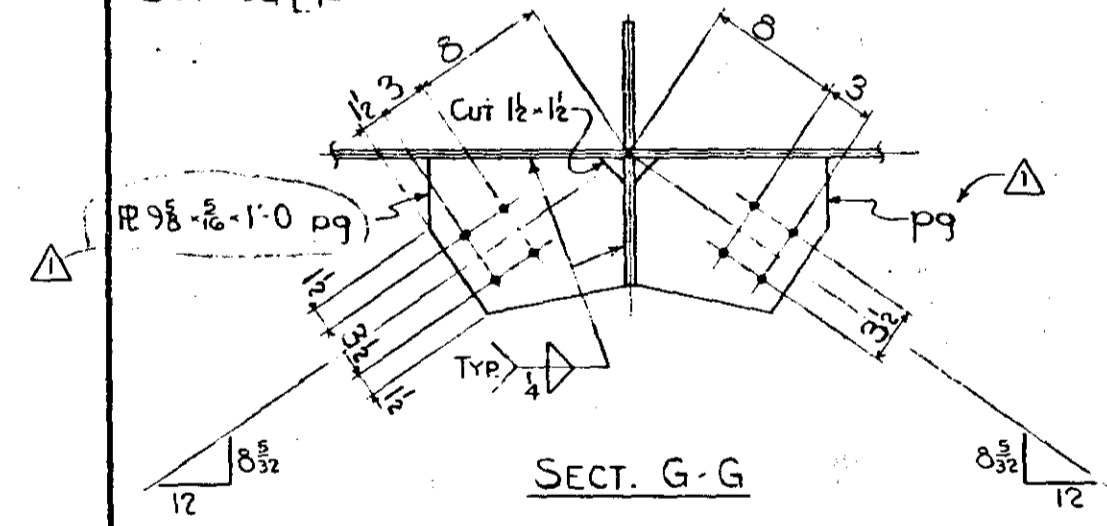
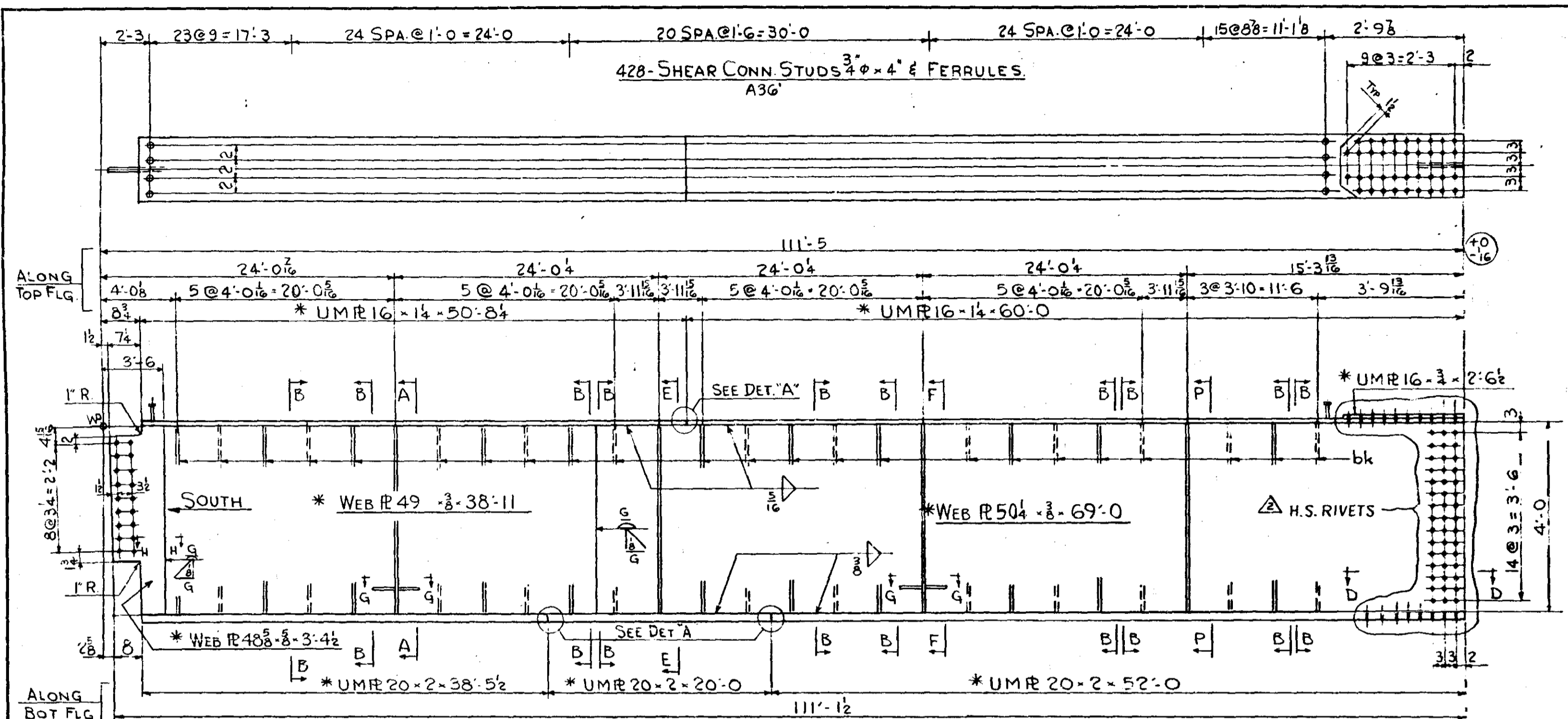
GENERAL NOTE SEE DWG. 100
EXCEPT MAT'L MARKED THUS *
TO BE M.H.D. 3310

MINN PROJ No IIG 35W-3(50)112
S.P. No. 2783-3340B (TH. 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

GIRDER-DETAILS
Structure M.H.D. NO. 9340
Location MPLS. MINN.
Contractor INDUSTRIAL CONSTR. CO.
Made by I.I. Checked by WES
Date 9/26 Shop 2-1
ORDER NO. 32647 DRAWING NO. 111

NO.	REVISION	Made by	Date
1	H.S. RIVET HOLES	WES	9/26



GENERAL NOTE SEE DWG 100
 EXCEPT MAT'L MARKED THUS *
 TO BE M.H.D. 3310

MINN PROJ No IIG 35W-3(58)112
 SP No 2783-9340B (TH.35W-394)

ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

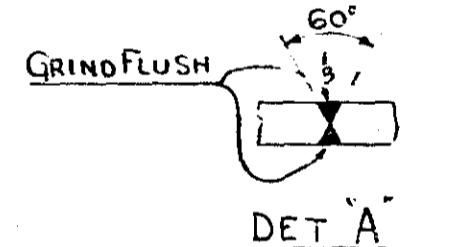
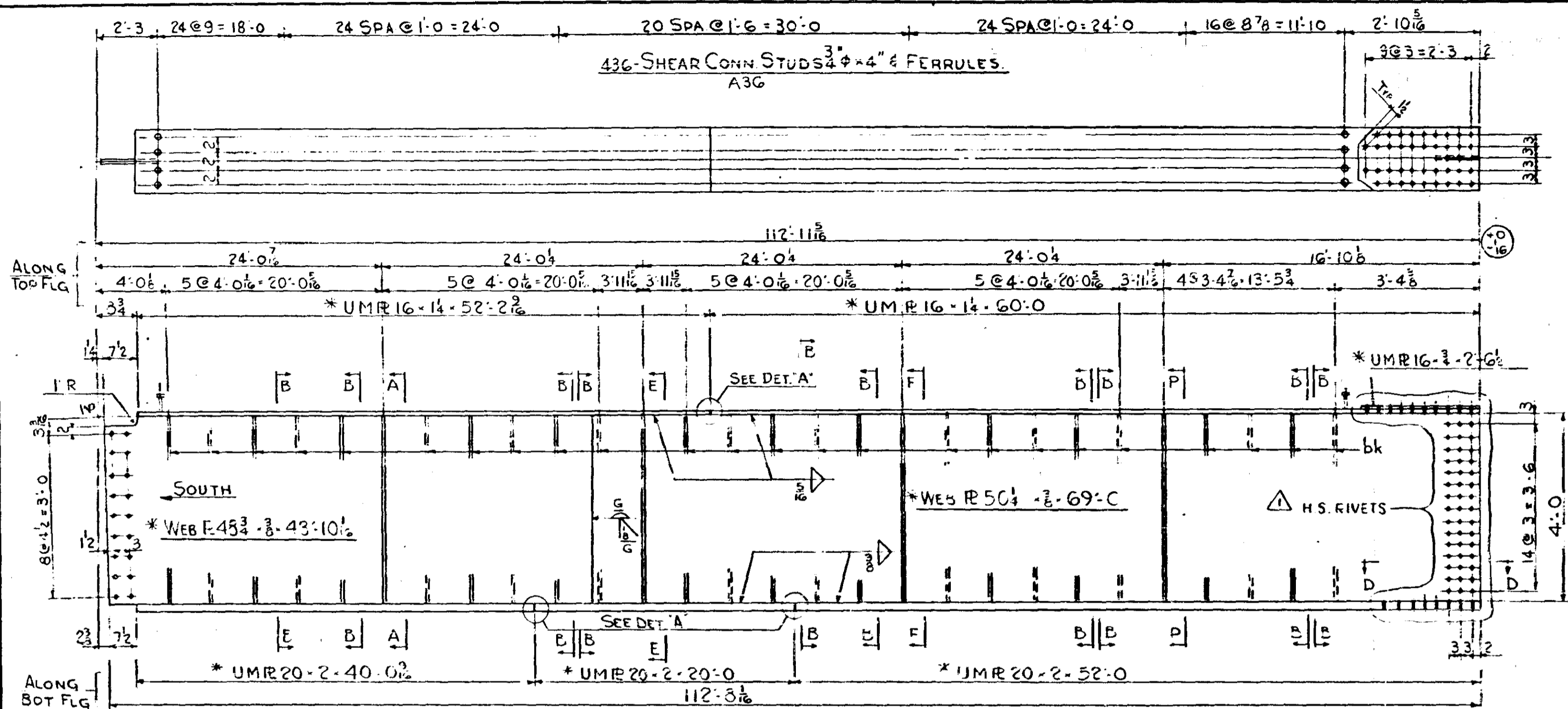
GIRDER-DETAILS
 M.H.D. No. 9340

Structure: M.H.D. No. 9340
 Location: MPLS. MINN.
 Contractor: INDUSTRIAL CONSTR. CO.
 Made by: I.I. Checked by: WES
 Date: 9-1 Shop: 9-1
 ORDER NO. 32647 DRAWING NO. 112

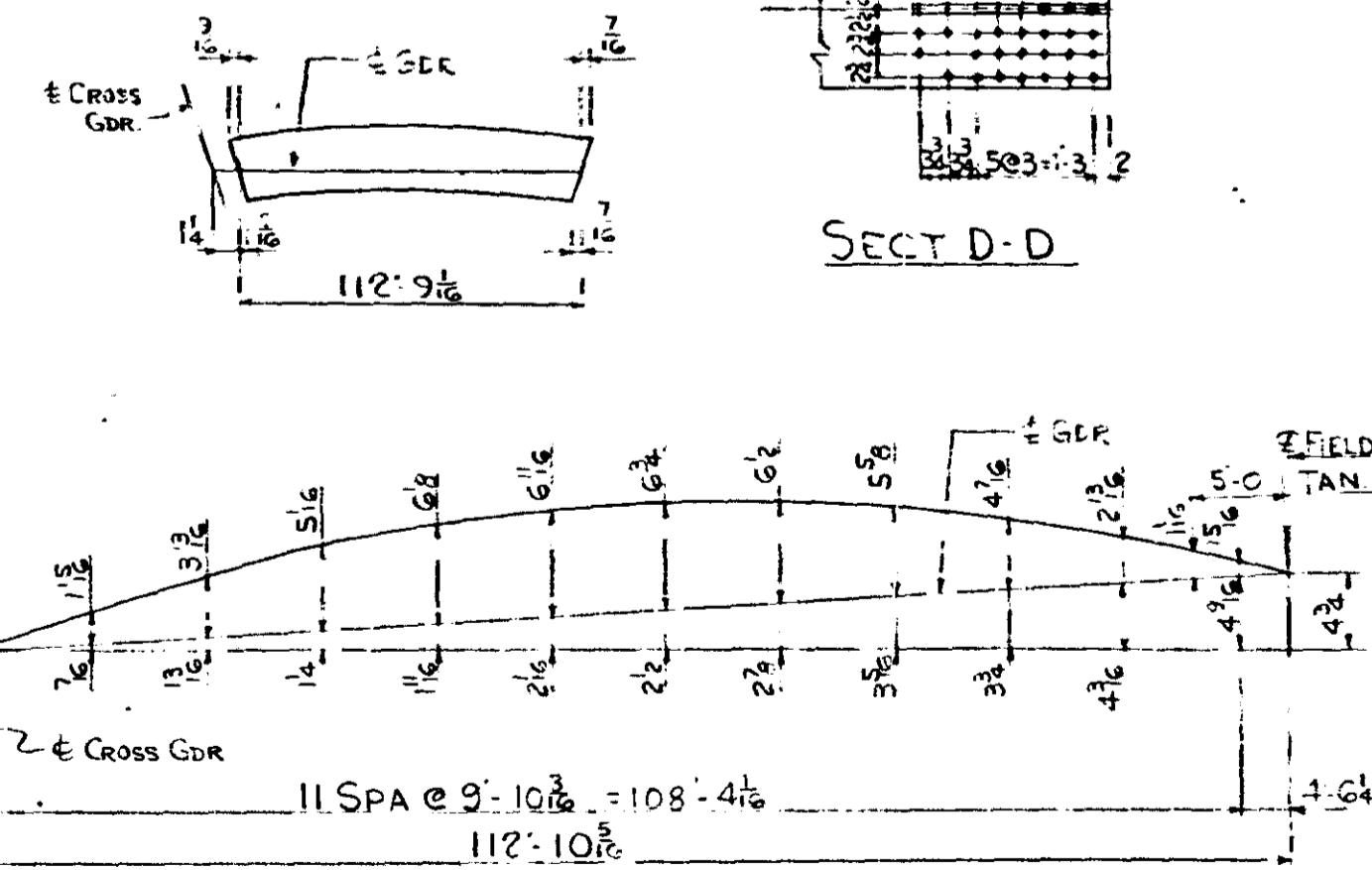
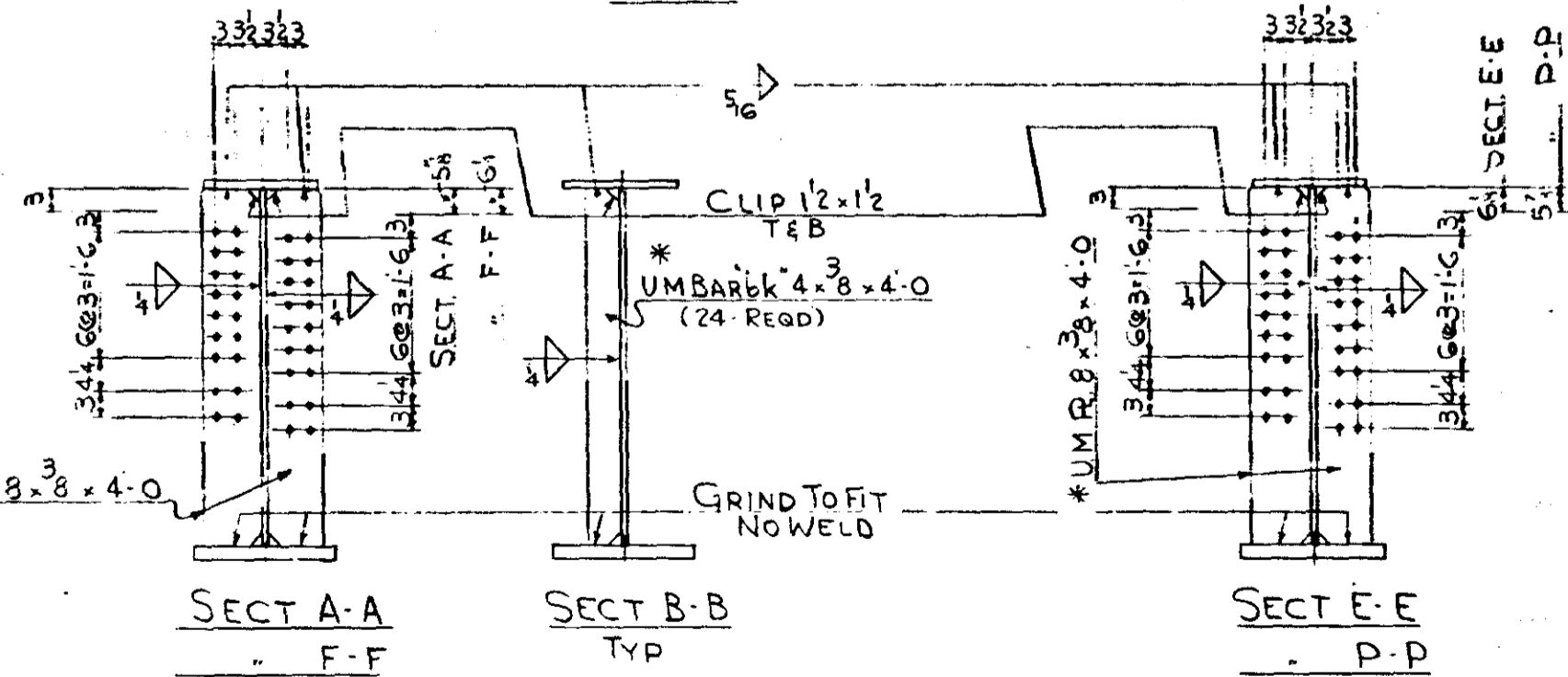
NO.	REVISION	Made by	Date
1	H.S. RIVET HOLES	WES	9/26
2	BRACE PLT. P9	WES	9-19

MICRO-FILMED

NO.	REVISION	Made by	Date
1	H.S. RIVET HOLES	WES	9/26
2	BRACE PLT. P9	WES	9-19



REQ'D - GIRDER THUS G113



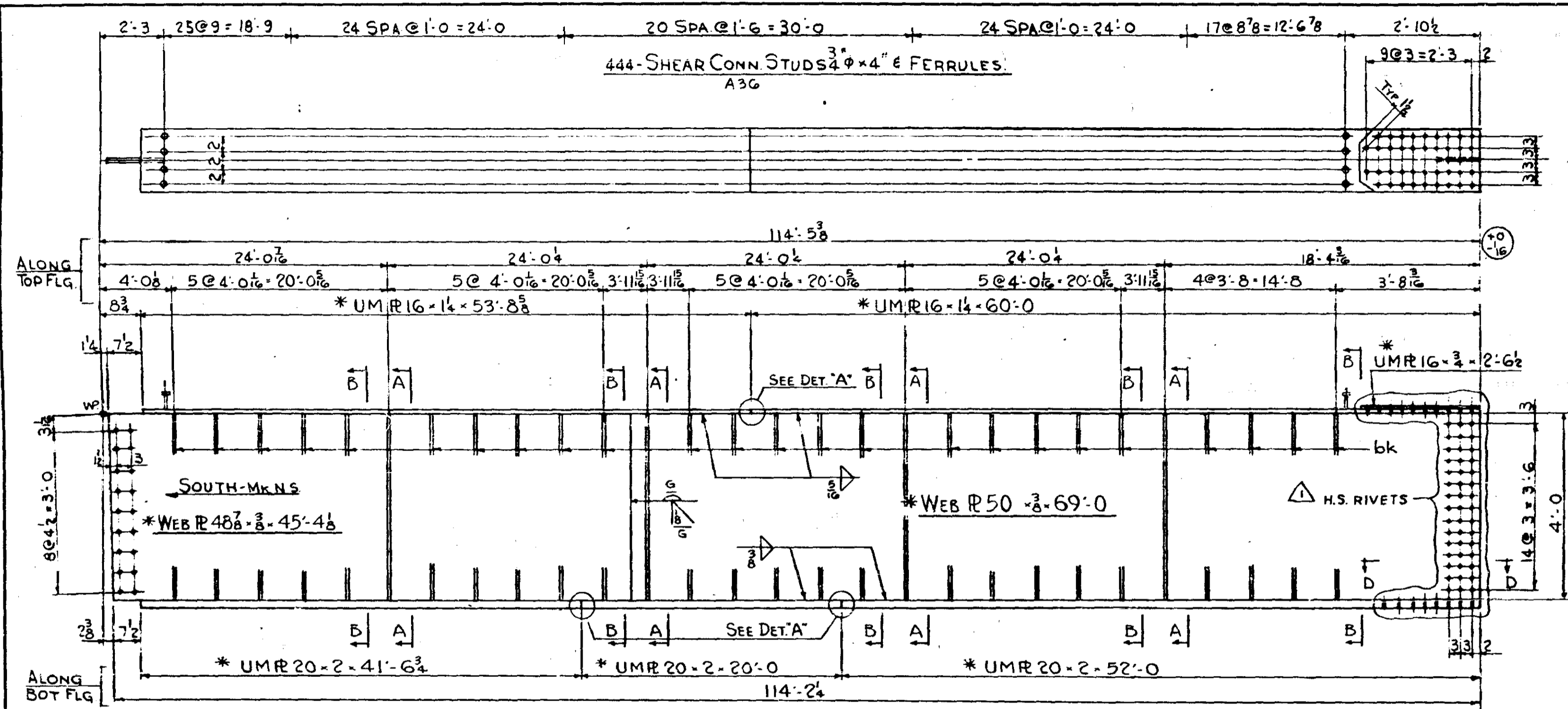
GENERAL NOTE SEE DWG 100
EXCEPT MAT'L MARKED THUS *
TO BE M.H.D. 3310

MINN PROJ NO IG 35W-3(58)112
SP NO. 2783-9340B (T.H. 35W=394)

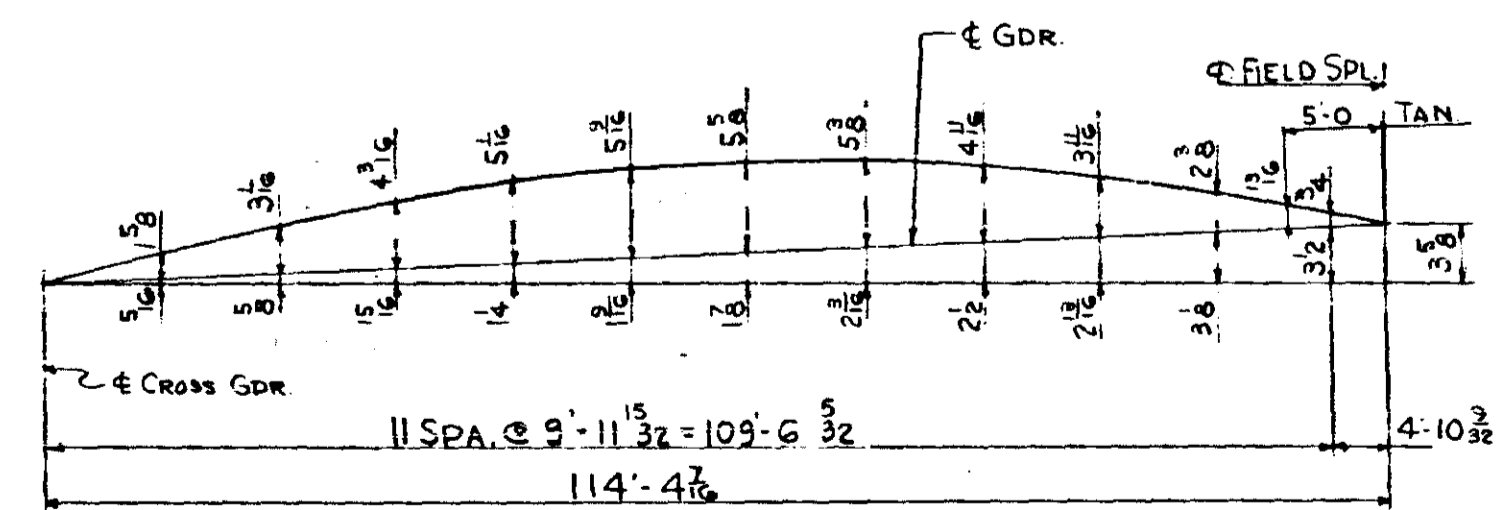
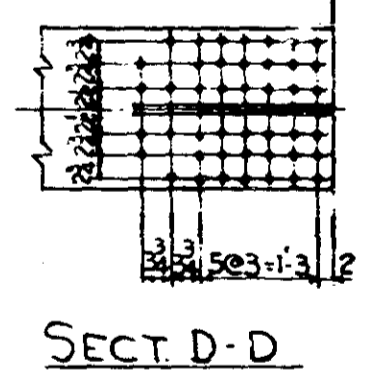
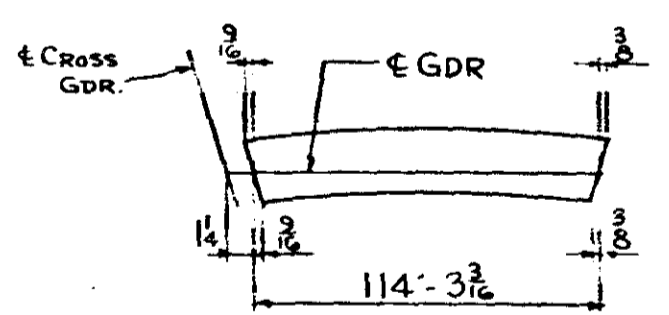
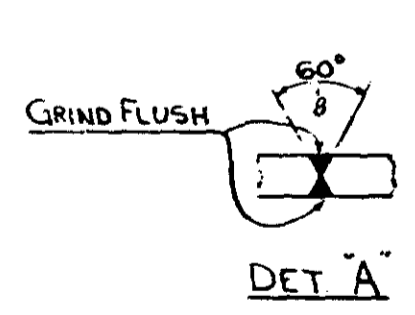
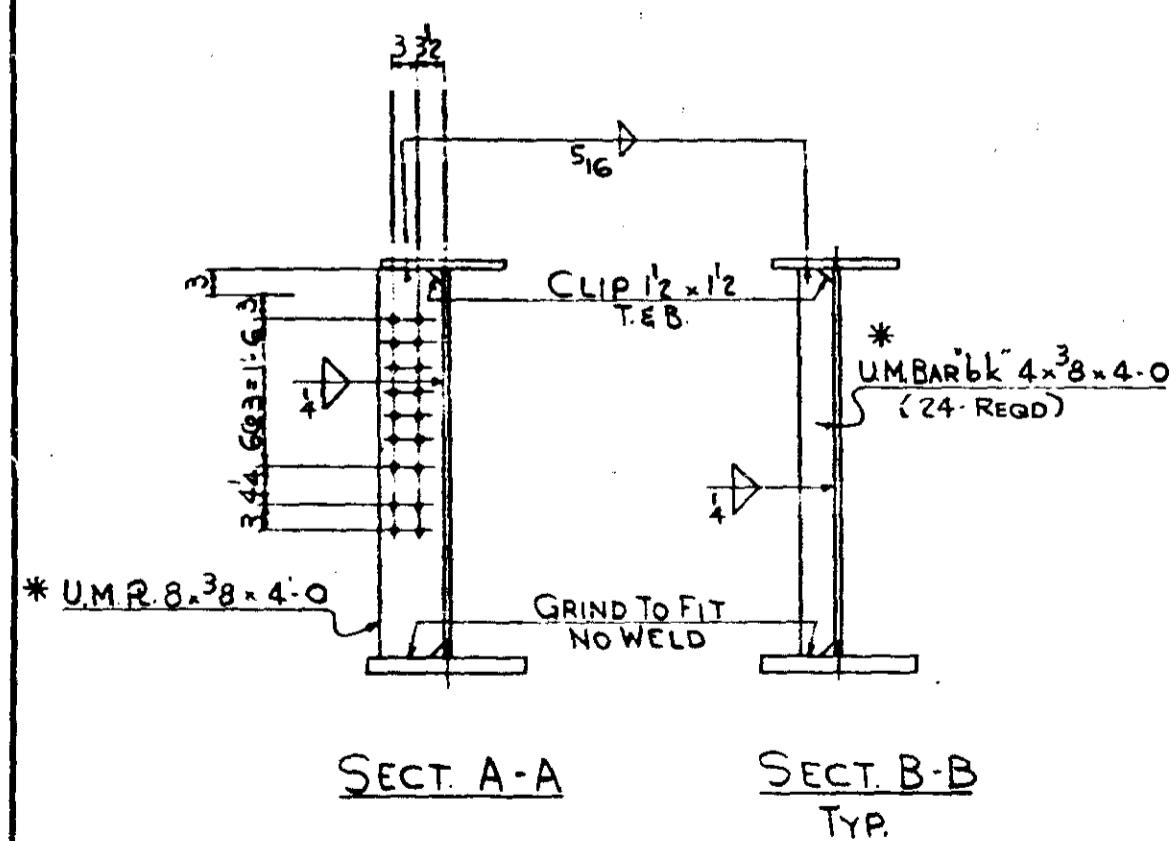
ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

GIRDER-DETAILS
Structure: M.H.D. NO. 9340
Location: MPLS. MINN.
Contractor: INDUSTRIAL CONSTR. CO.
Made by: I.I. Checked by: WES
Date: 9/26 Step: 9-1
ORDER NO. 32647 DRAWING NO. 113

NO.	REVISION	Made by	Date
1	H.S. RIVET HOLES	WES	9/26



REQ'D-1- GIRDER THUS G114



CAMBER DIAGRAM.

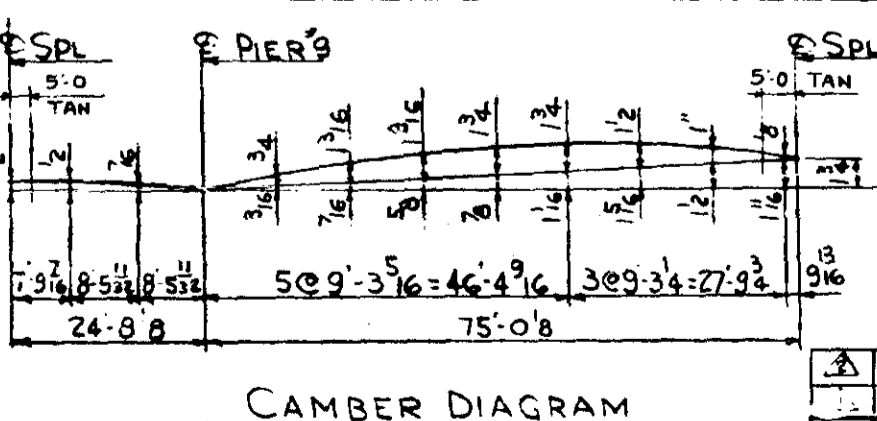
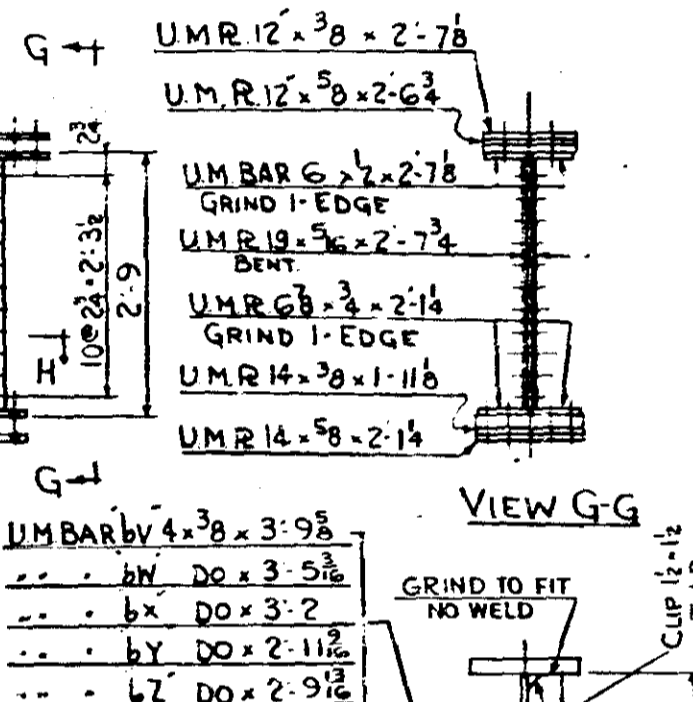
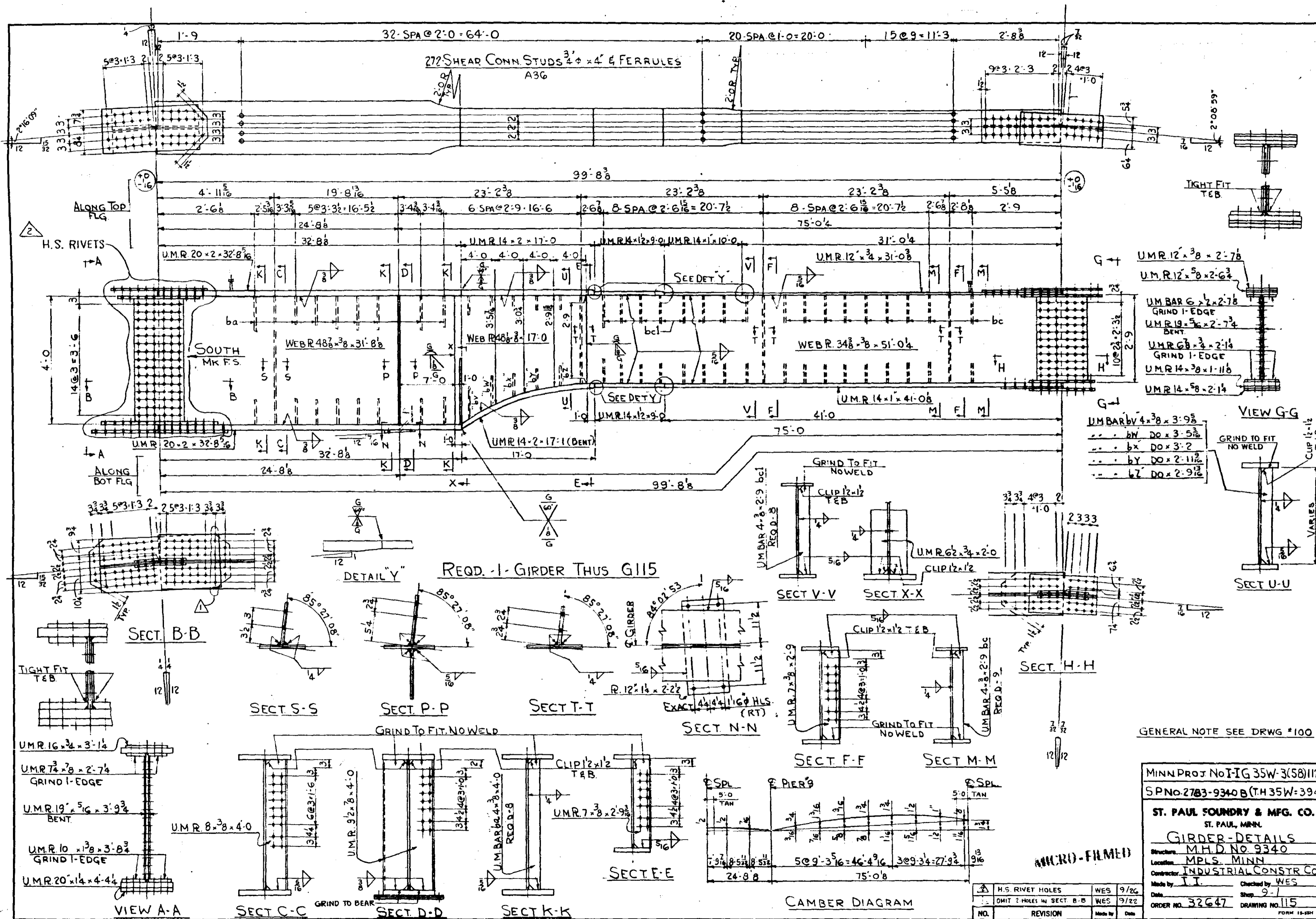
GENERAL NOTE SEE DWG. 100
EXCEPT MAT'L MARKED THUS *
TO BE M.H.D. 3310

MINN PROJ NO. IIG 35W-3(58)112
SPNO 2783-9340 B (T.H. 35 W=394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

GIRDER-DETAILS
Structure M.H.D. NO. 9340
Location MPLS. MINN.
Contractor INDUSTRIAL CONSTR. CO.
Made by I.I. Checked by WES
Date 9/26 Shop 2-1
ORDER NO. 32647 DRAWING NO. 114

NO.	REVISION	Made by	Date
1	H.S. RIVET HOLES	WES	9/26

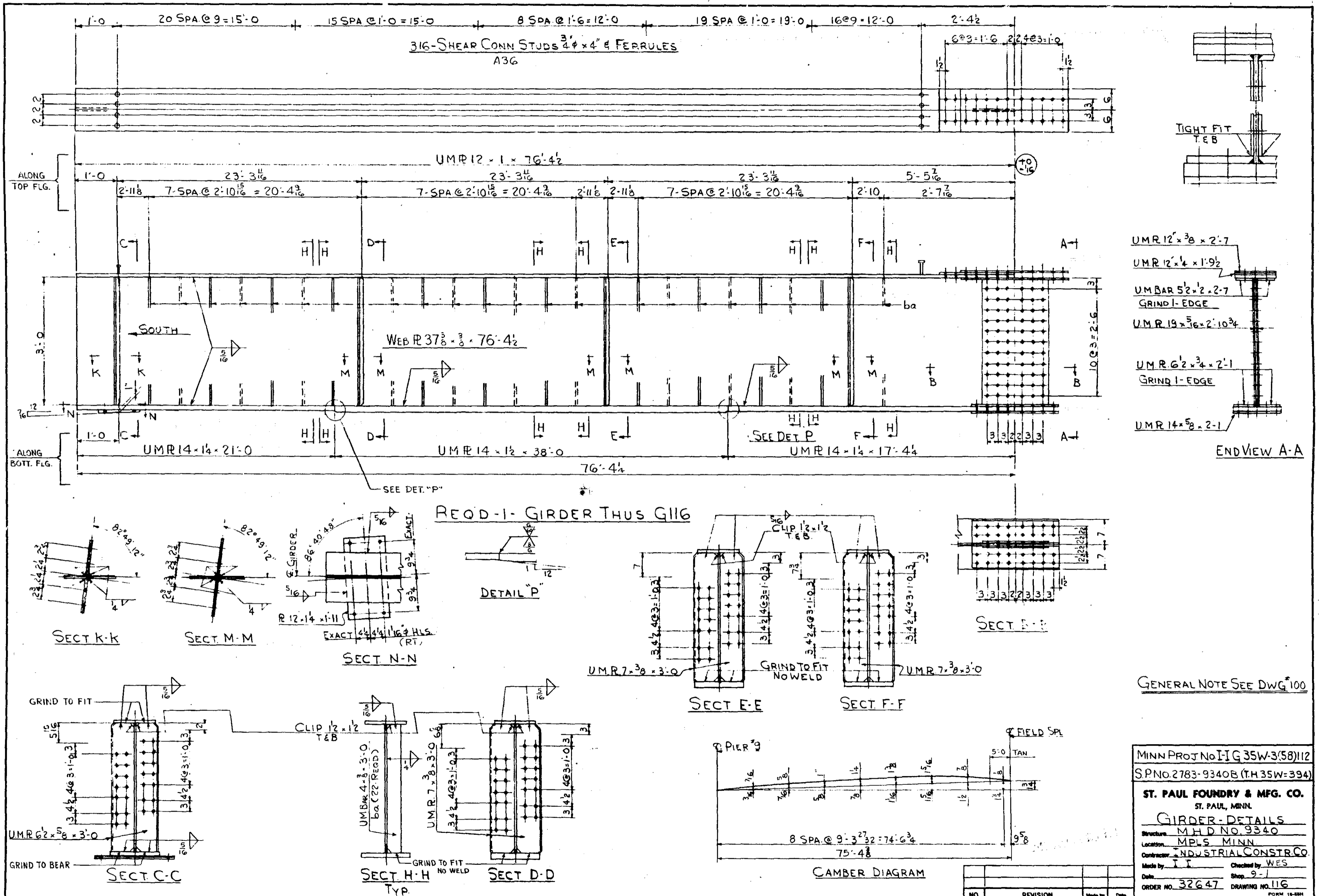


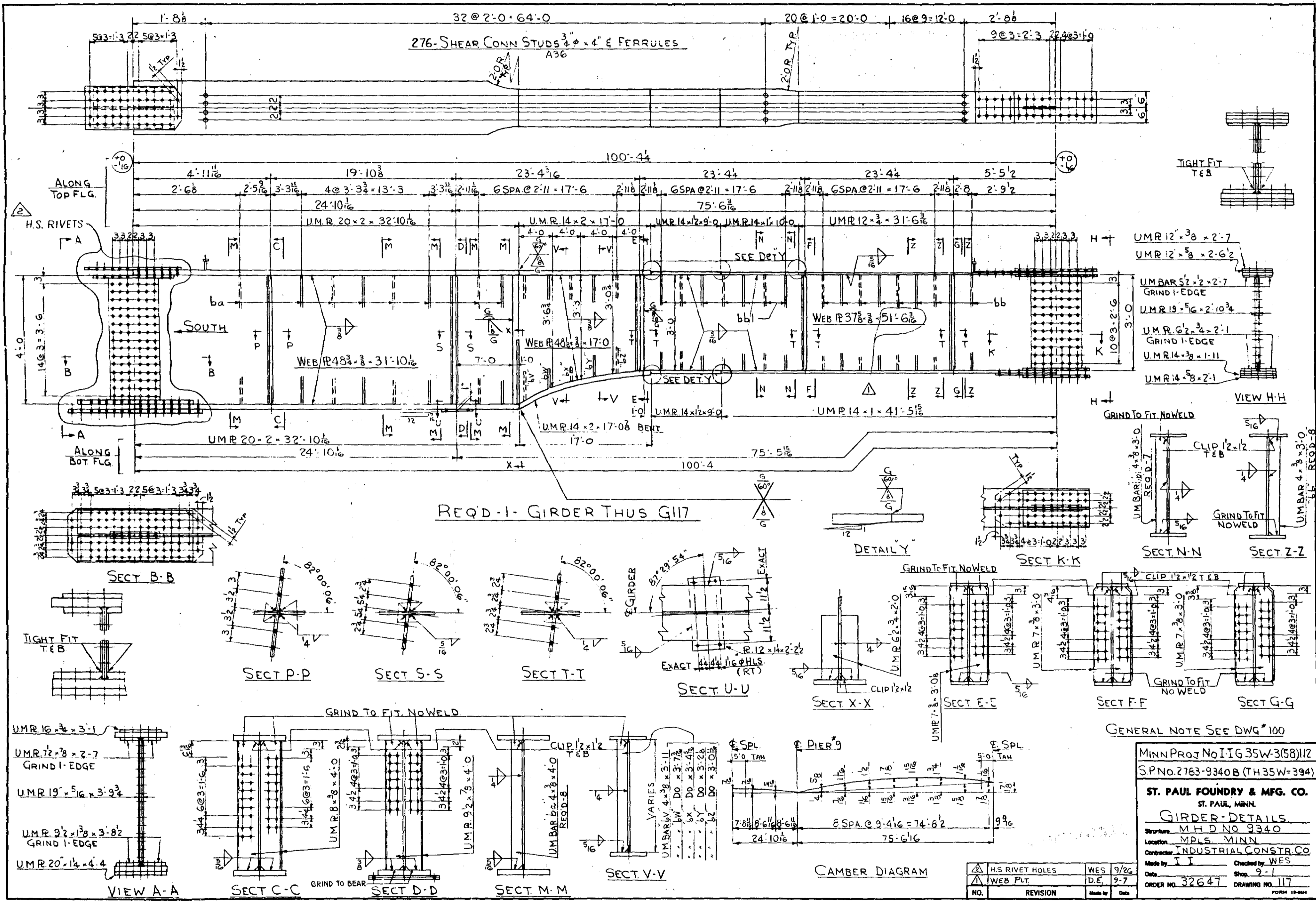
GENERAL NOTE SEE DRWG #100

MINN PROJ No I-IG 35W-3(58)112			
SP No 2783-9340 B (TH 35W-394)			
ST. PAUL FOUNDRY & MFG. CO.			
ST. PAUL, MINN.			
GIRDER-DETAILS			
Structure M.H.D. NO. 9340			
Location MPLS. MINN.			
Contractor INDUSTRIAL CONSTR CO			
Made by J.I. Checked by WES			
Date 9-1 Shop 9-1			
ORDER NO. 32647 DRAWING NO. 115			
NO. REVISION		Made by	Date

MICRO-FILMED

H.S. RIVET HOLES	WES	9/26
OMIT 2 HOLES IN SECT. B-B	WES	9/22





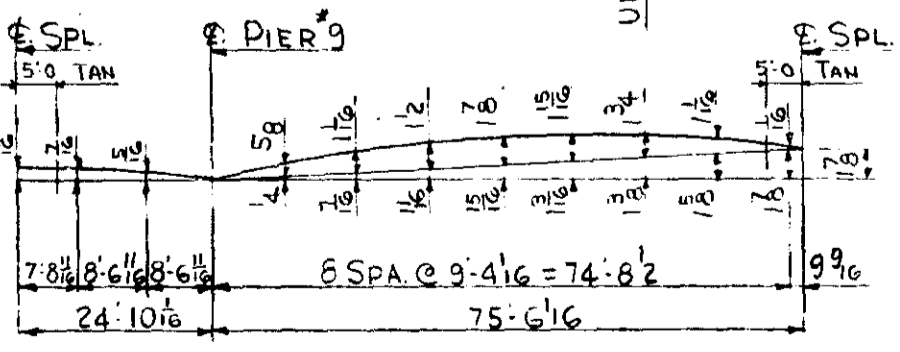
MINN PROJ NO I:IG 35W-3(58)112
 S.P. NO. 2783-9340B (TH 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

GIRDER-DETAILS

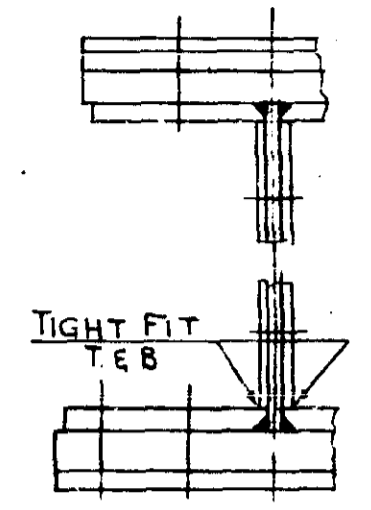
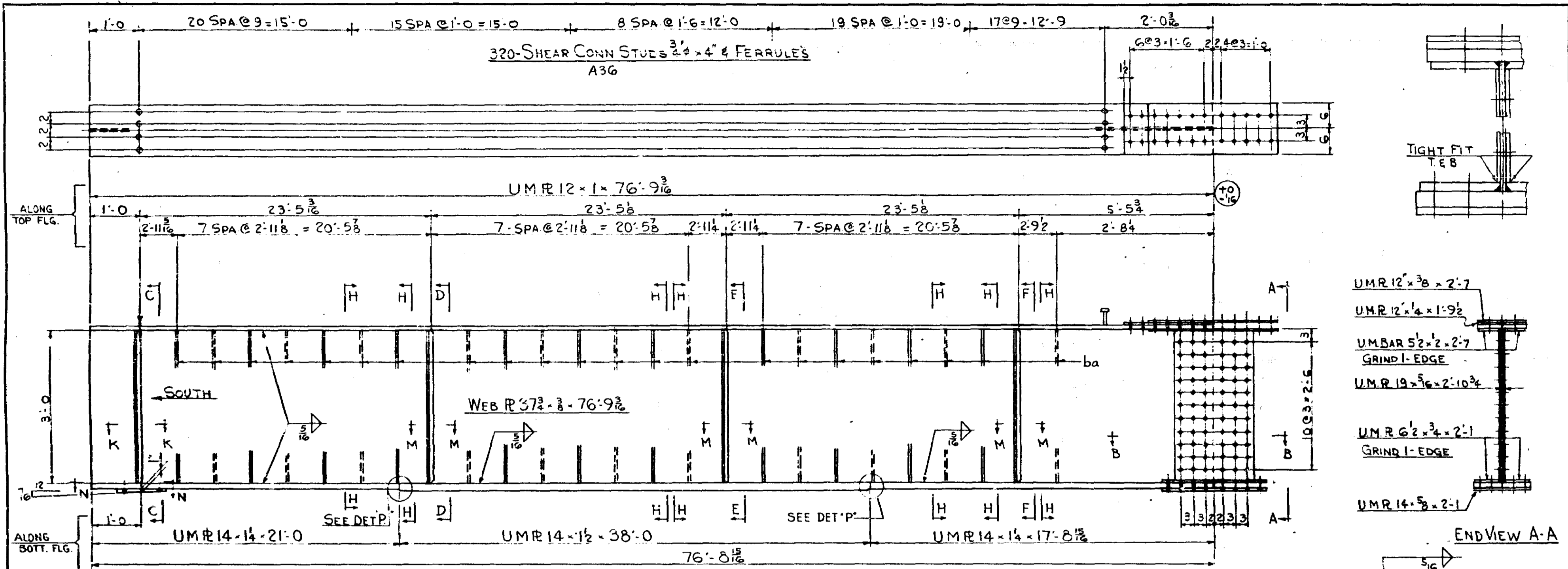
Structure M.H.D. NO 9340
 Location MPLS. MINN
 Contractor INDUSTRIAL CONSTR. CO.
 Made by I.I. Checked by WES
 Date 9-1 Shop 9-1
 ORDER NO. 32647 DRAWING NO. 117
 FORM 15-841

NO.	REVISION	Made by	Date
1	H.S. RIVET HOLES	WES	9/26
2	WEB PLT.	D.E.	9-7



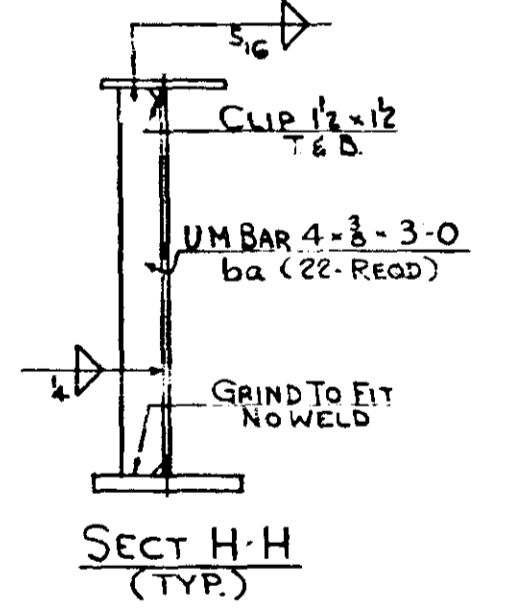
CAMBER DIAGRAM

GENERAL NOTE SEE DWG # 100

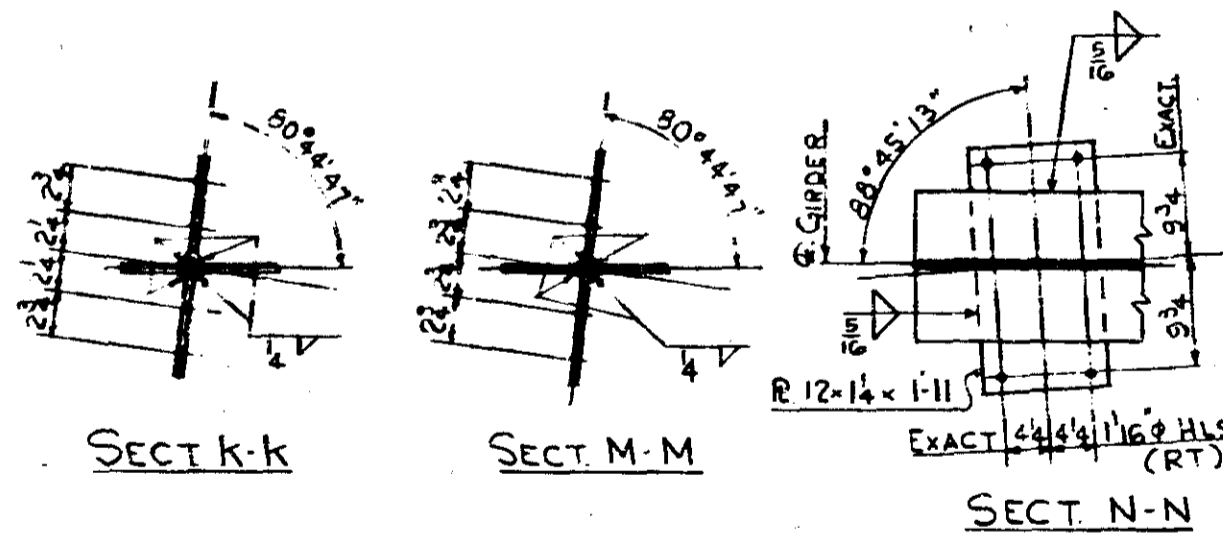


- UMR 12 x 3/8 x 2-7
- UMR 12 x 1/4 x 1-9 1/2
- UM BAR 5/2 x 2 x 2-7
- GRIND 1-EDGE
- UMR 19 x 5/16 x 2-10 3/4
- UMR 6 1/2 x 3/4 x 2-1
- GRIND 1-EDGE
- UMR 14 x 5/8 x 2-1

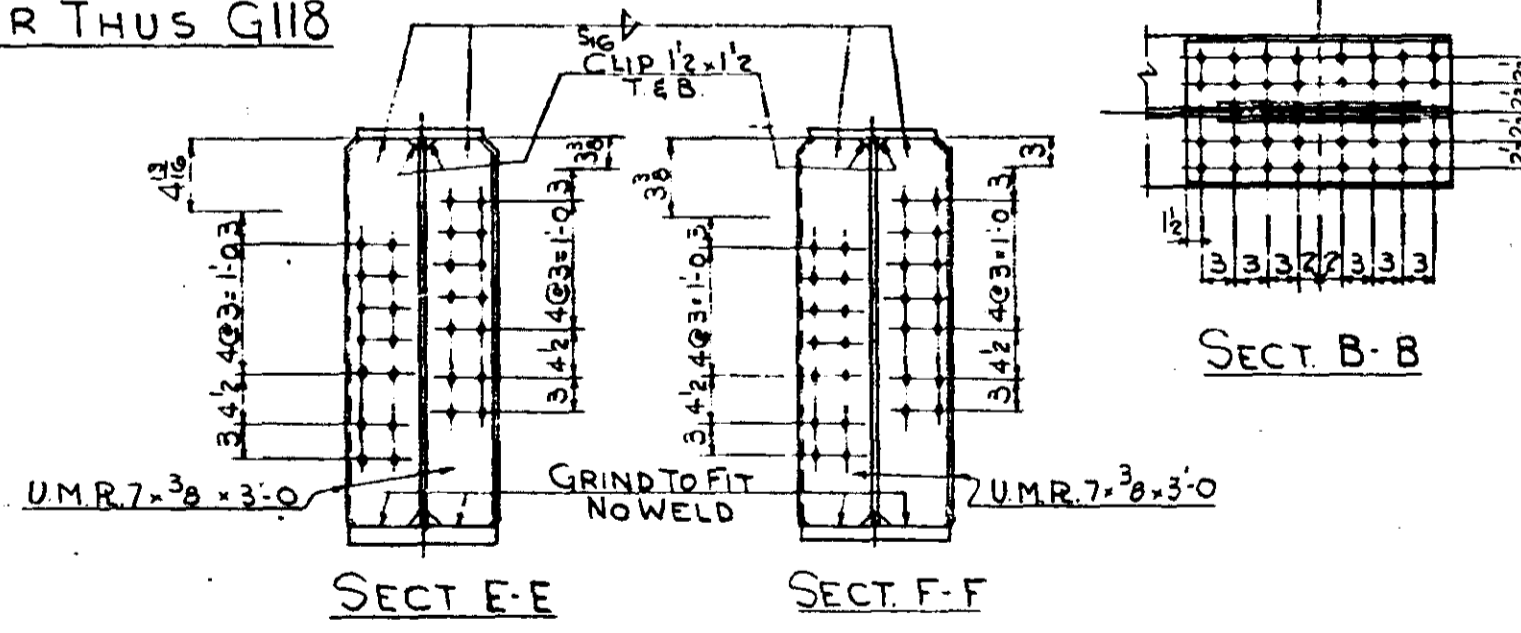
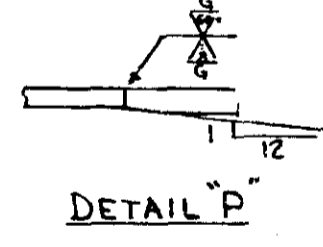
END VIEW A-A



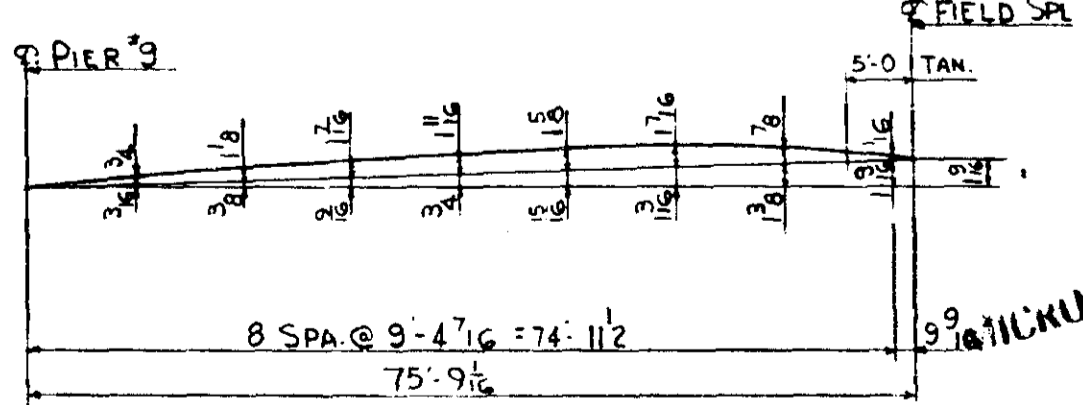
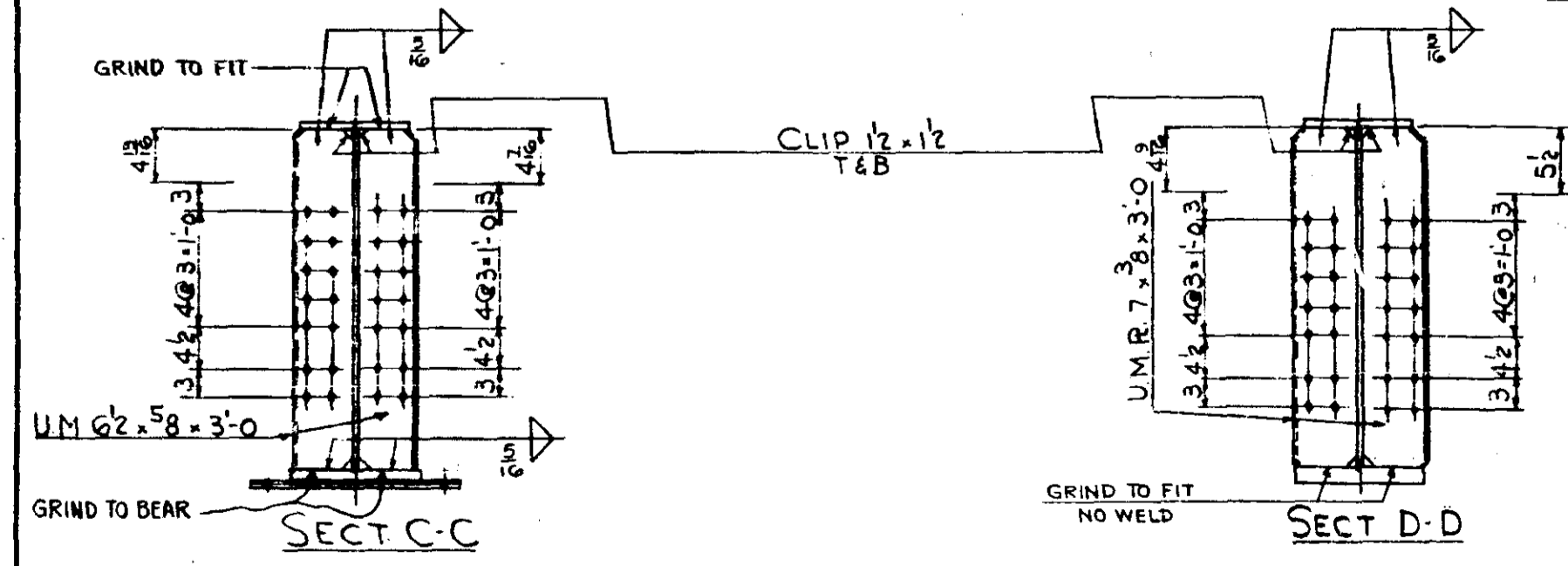
GENERAL NOTE SEE DWG # 100



READ-1- GIRDER THUS G118



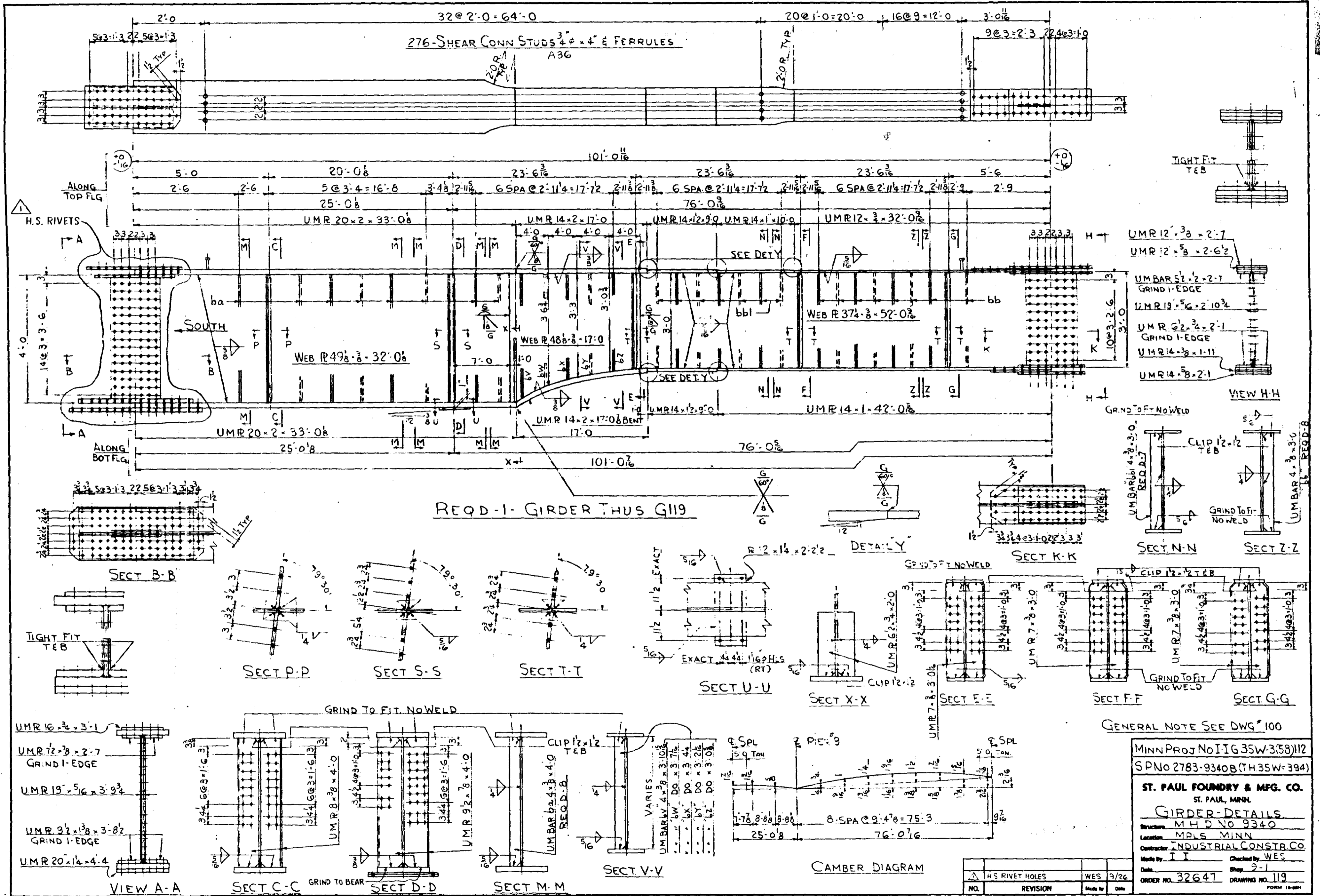
SECT B-B

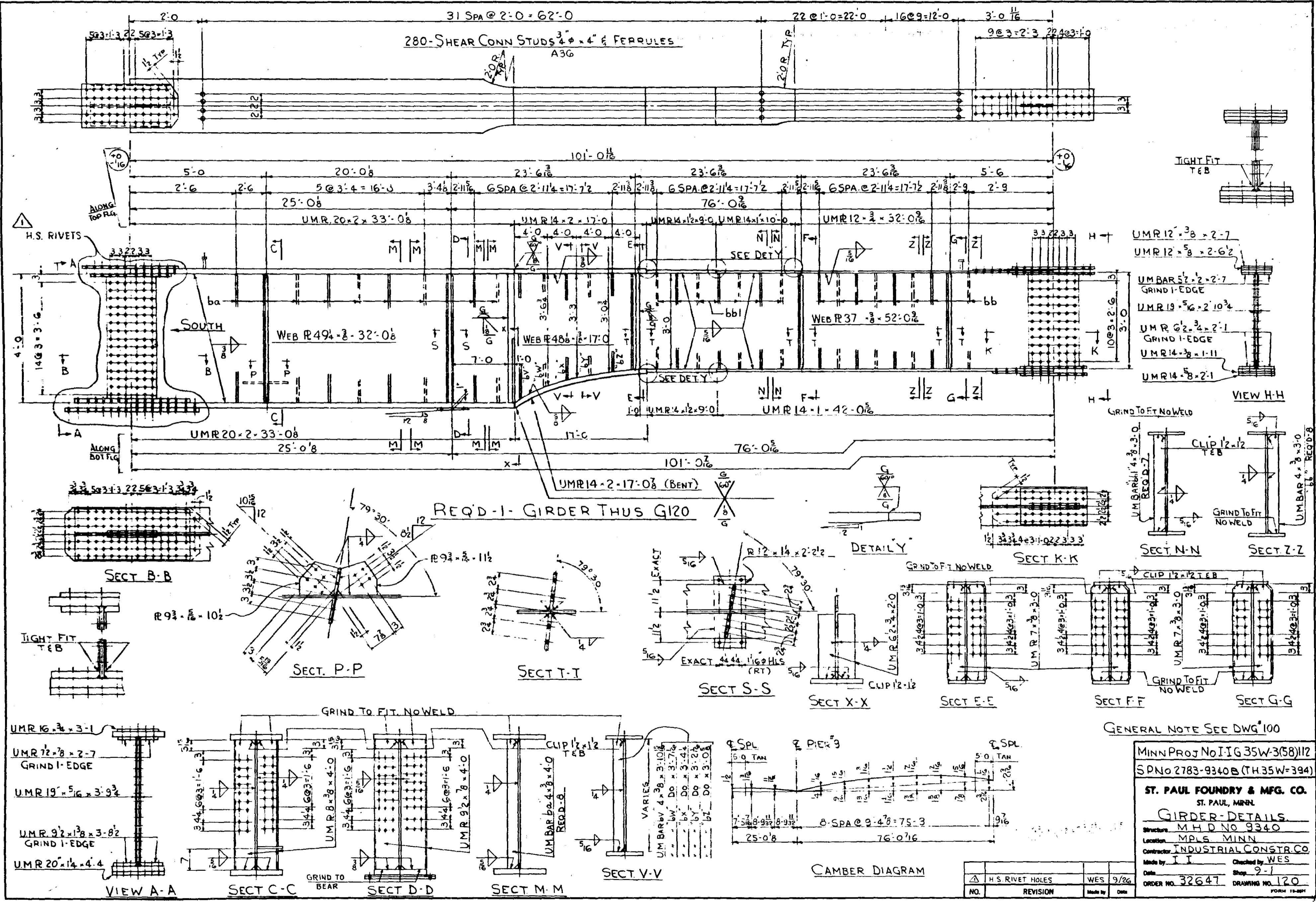


CAMBER DIAGRAM

NO.	REVISION	Made by	Date

MINN PROJ No IIG 35W-3(58)112
 S.P.No.2783-9340B (TH.35W-394)
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.
GIRDER-DETAILS
 Structure M.H.D. NO. 9340
 Location MPLS. MINN.
 Contractor INDUSTRIAL CONSTR. CO.
 Made by I.T. Checked by WES
 Date Shop 9-1
 ORDER NO. 32647 DRAWING NO. 118
 FORM 13-394





MINN PROJ No IG 35W-3(58)112
 SP No 2783-9340B (TH 35W=394)

ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

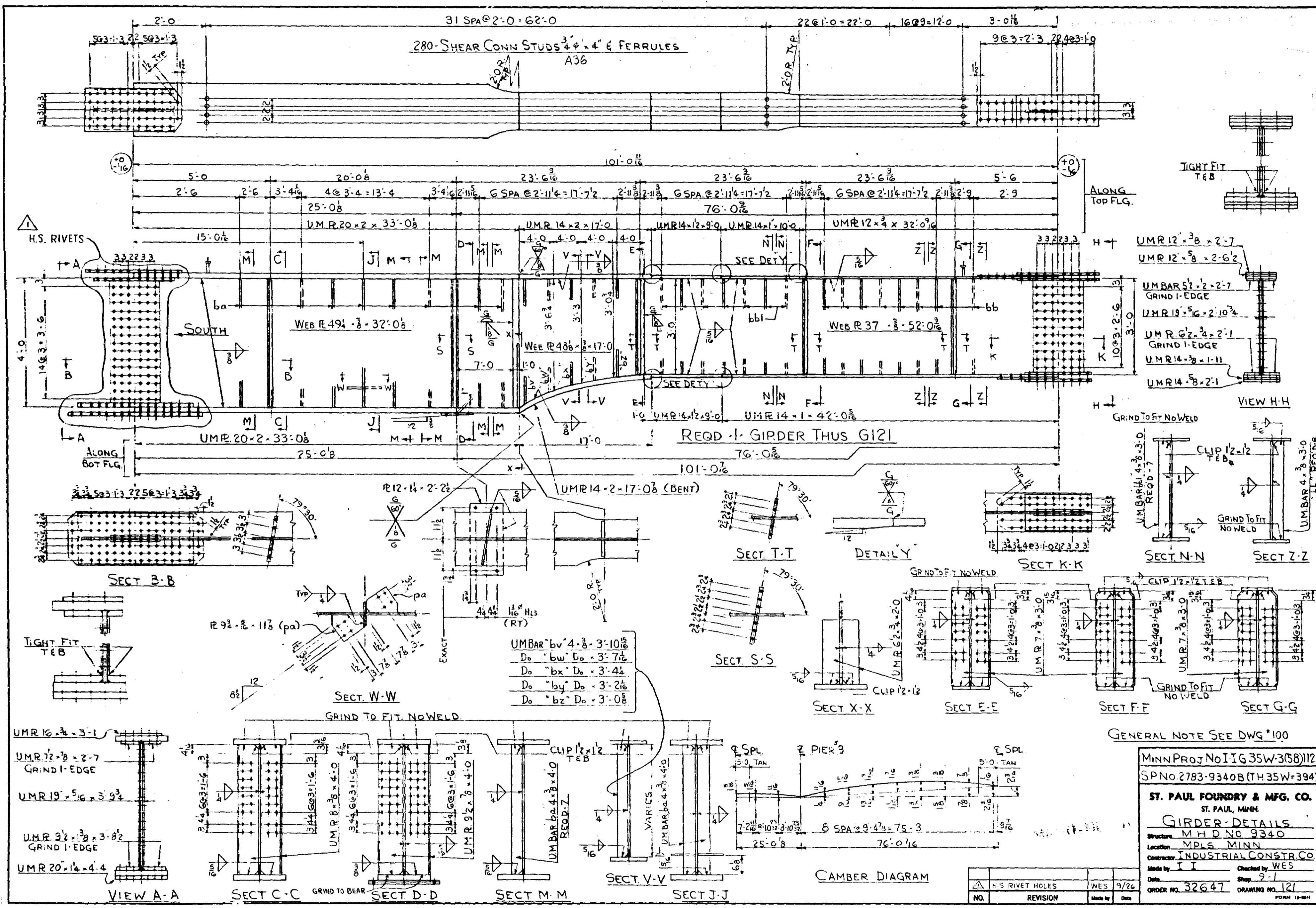
GIRDER-DETAILS

Structure MHD NO 9340
 Location MPLS MINN
 Contractor INDUSTRIAL CONSTR CO
 Made by I I Checked by WES
 Date _____ Shop 9-1
 ORDER NO. 32647 DRAWING NO. 120
 FORM 15-591

NO.	REVISION	Made by	Date
1	H.S. RIVET HOLES	WES	9/26

CAMBER DIAGRAM

GENERAL NOTE SEE DWG 100



MINN PROJ NO IIG 35W-3(58)112
 SP NO 2783-9340B (TH 35W-394)

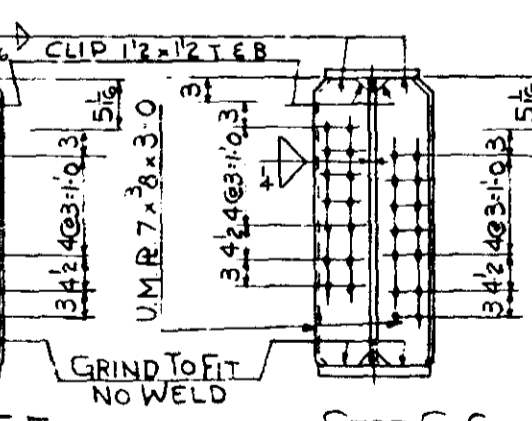
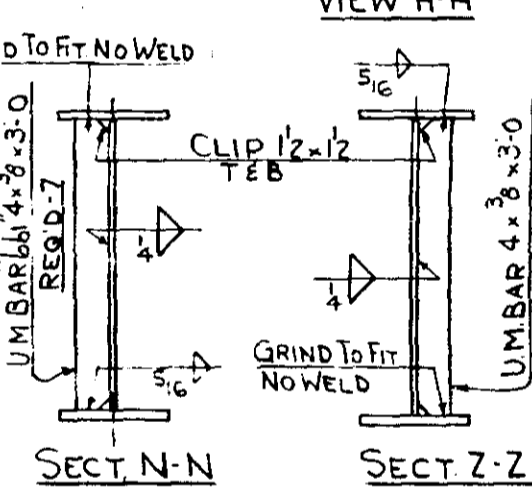
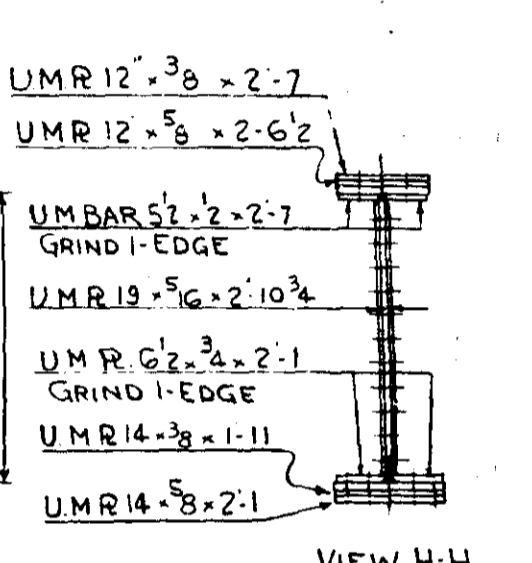
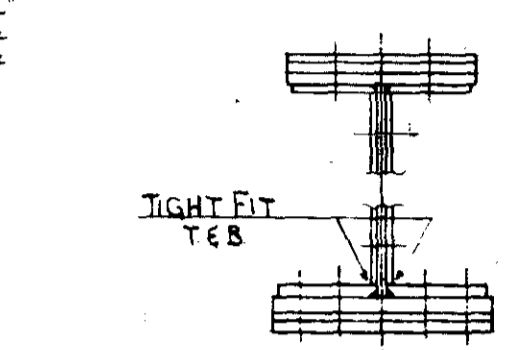
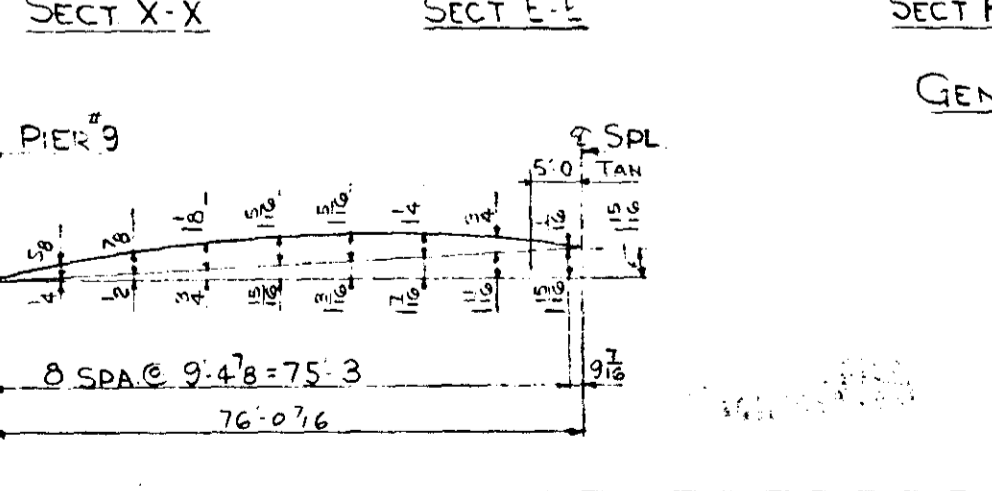
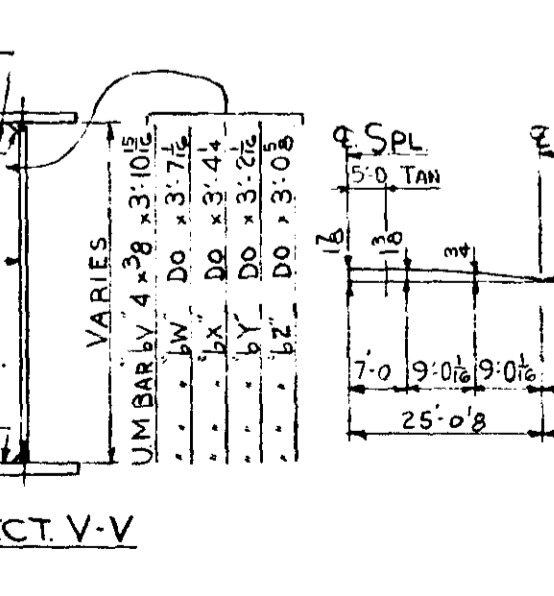
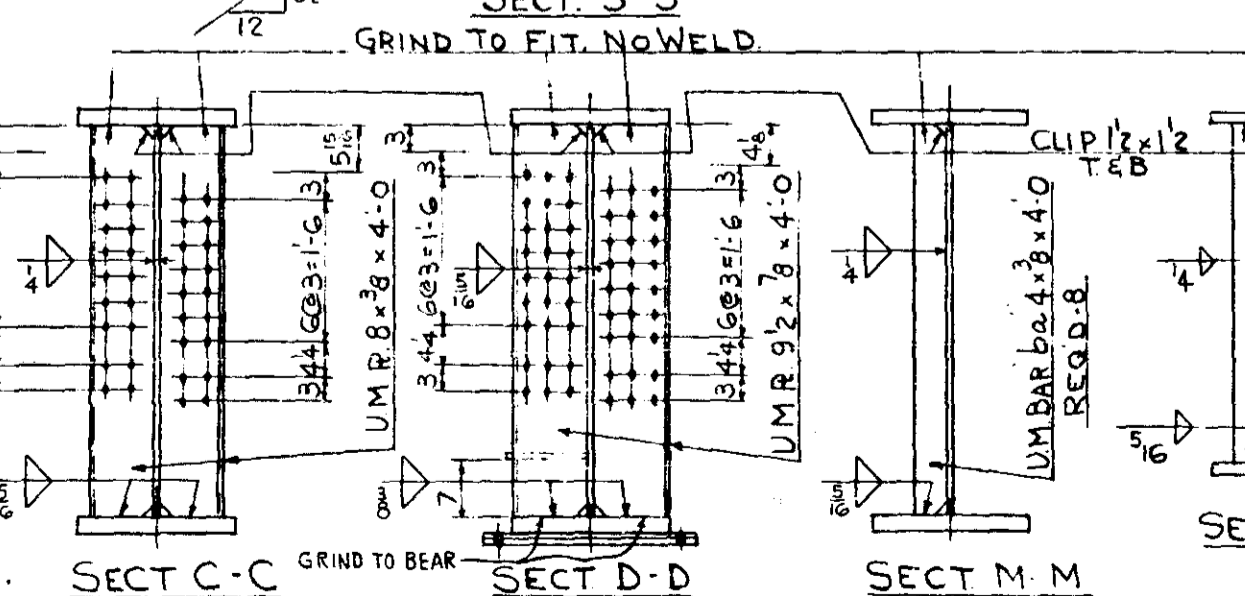
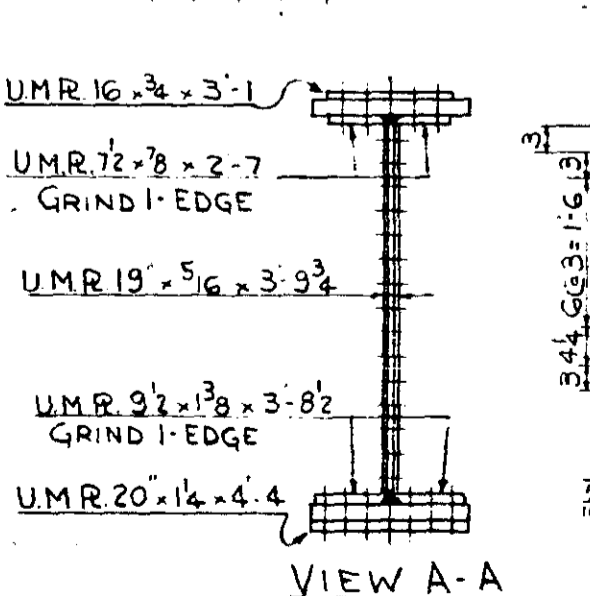
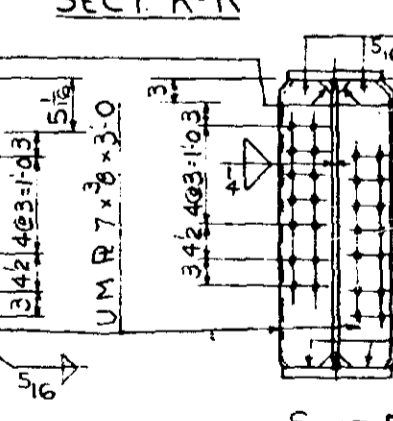
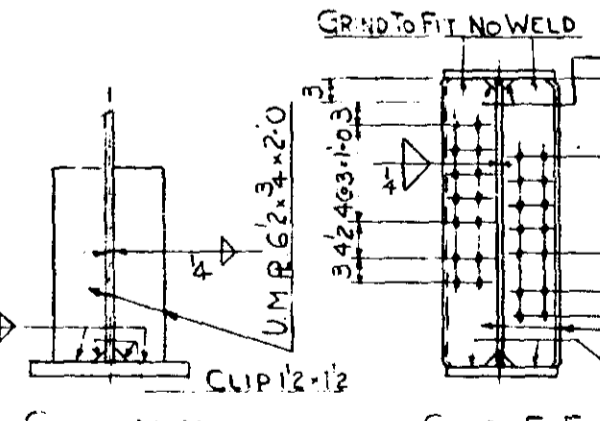
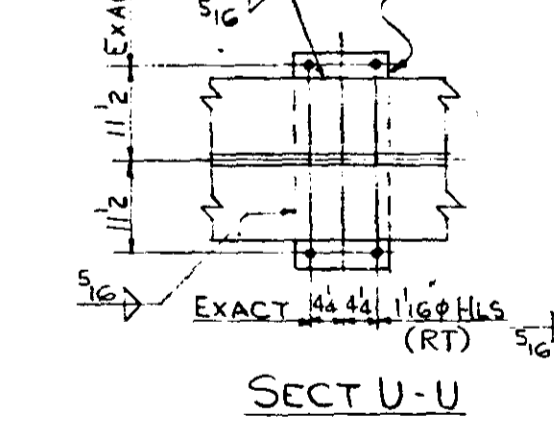
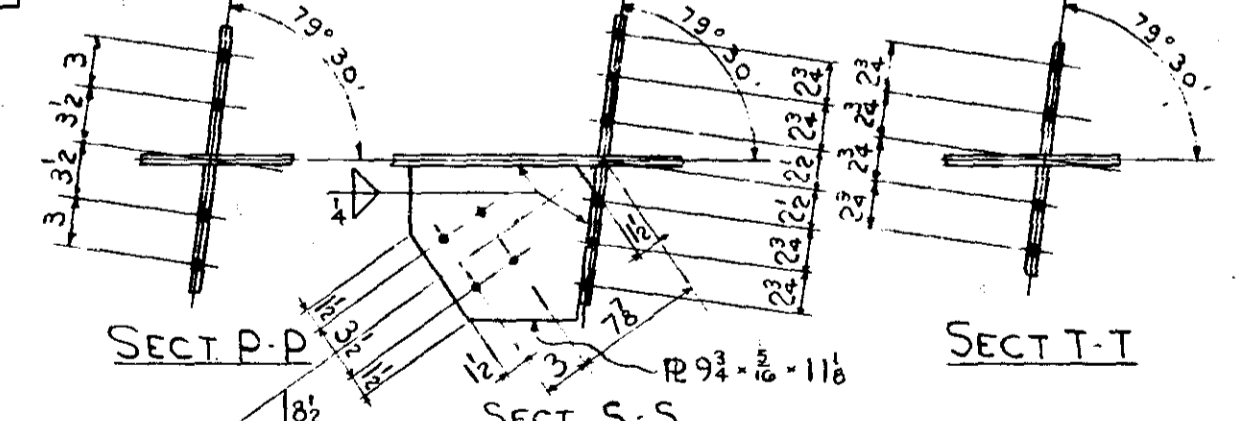
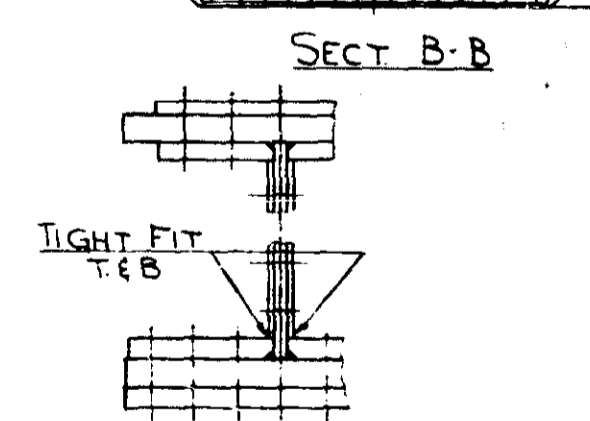
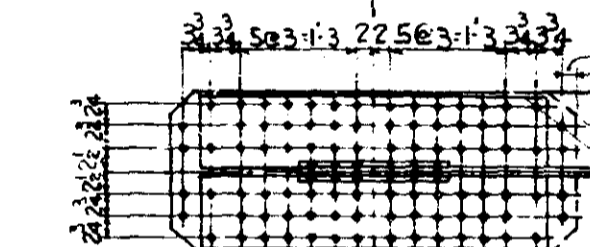
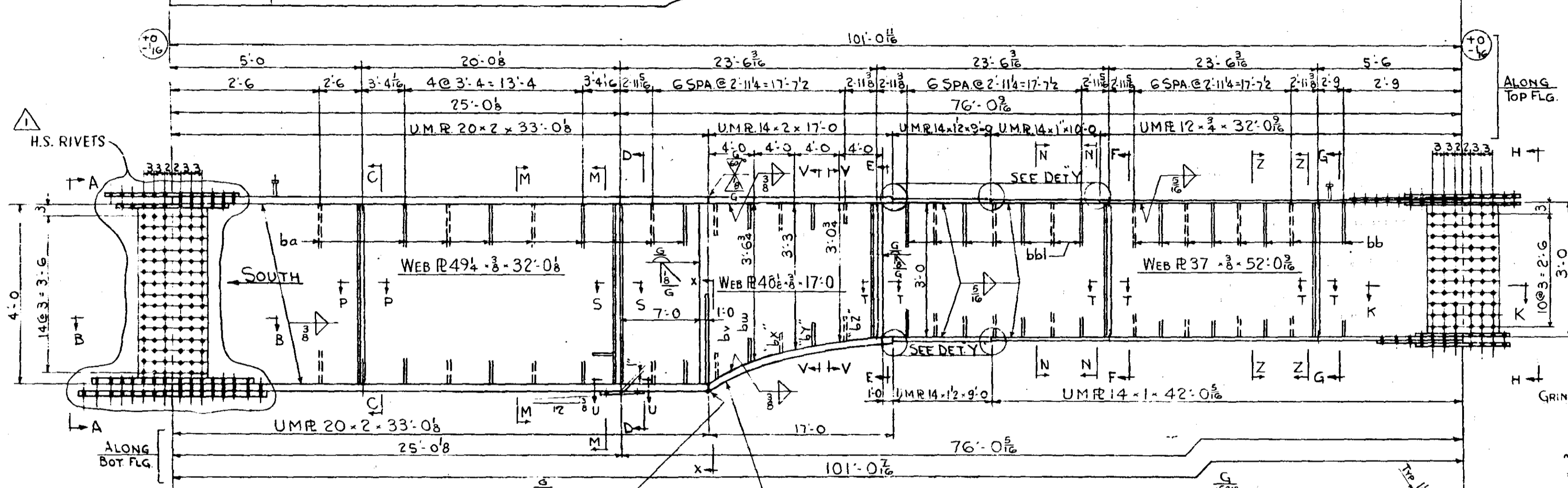
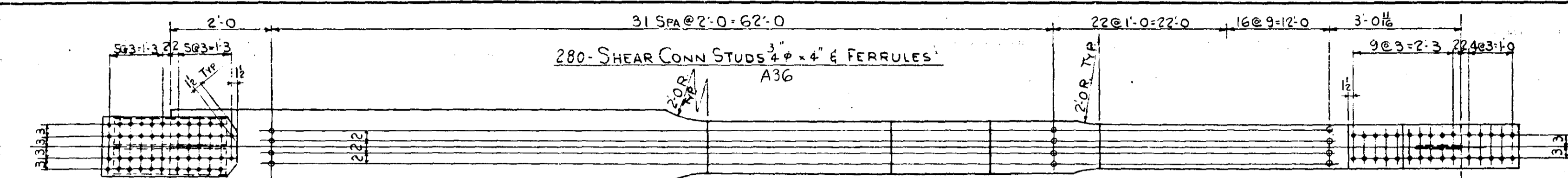
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

GIRDER-DETAILS

Structure: M.H.D. NO 9340
 Location: MPLS. MINN
 Contractor: INDUSTRIAL CONSTR. CO.
 Made by: I.I. Checked by: WES
 Date: 9-26-21 Shop: 9-1
 ORDER NO. 32647 DRAWING NO. 121

NO.	REVISION	Made by	Date

△	H.S. RIVET HOLES	WES	9/26



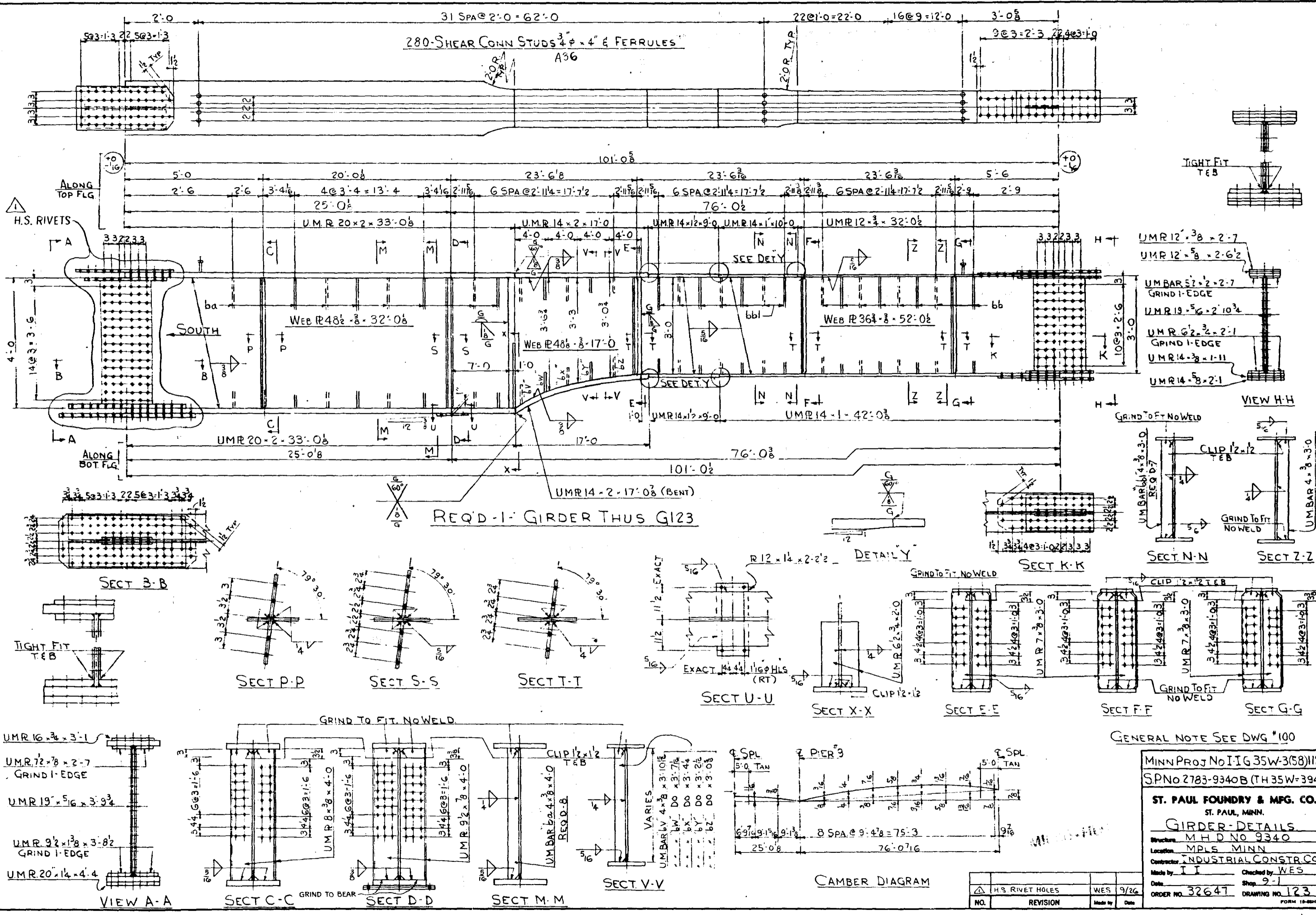
GENERAL NOTE SEE DWG #100

MINN PROJ NO IIG 35W-3(58)112
 SPNO 2783-9340B (TH 35W-394)

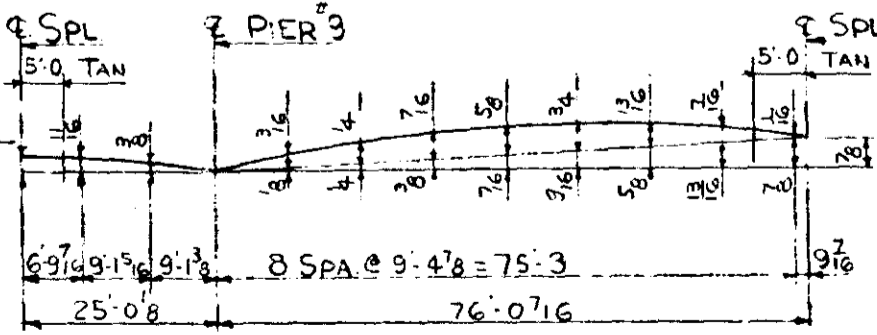
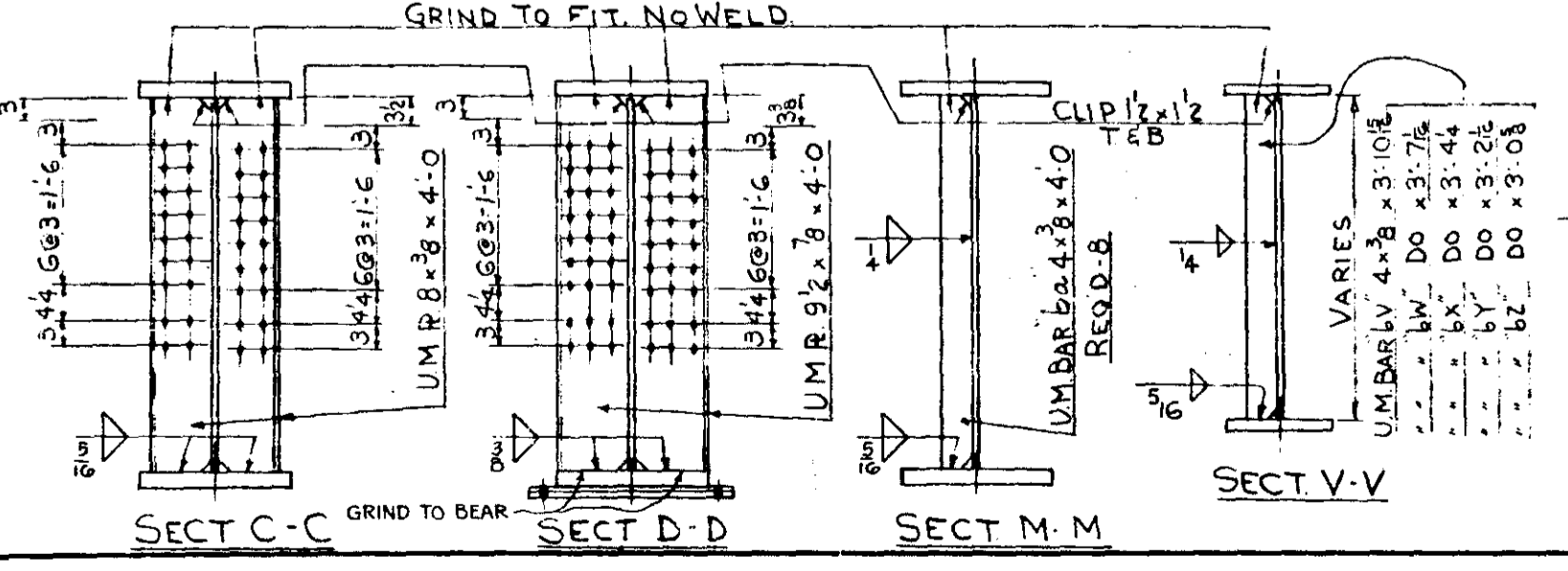
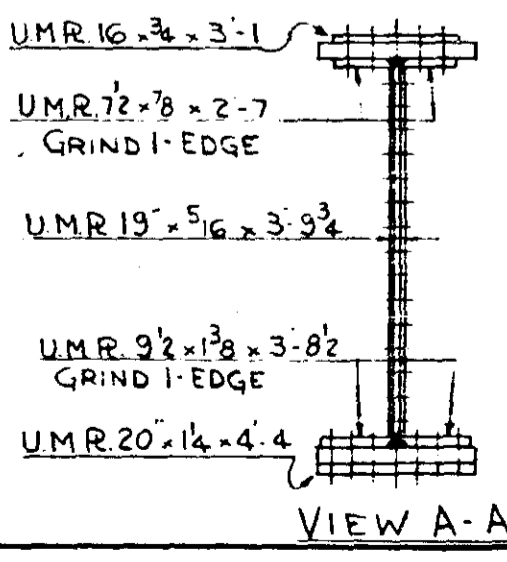
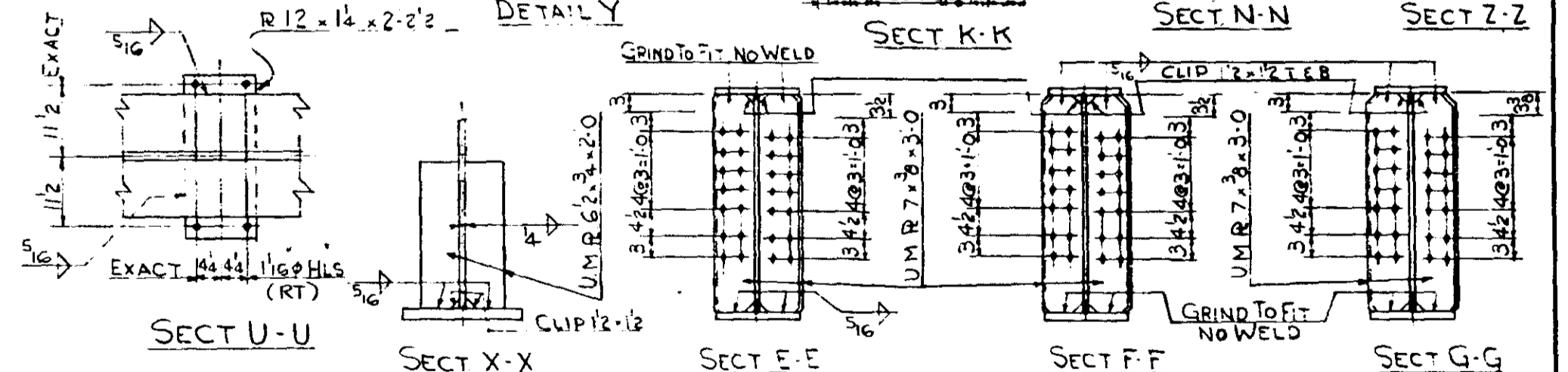
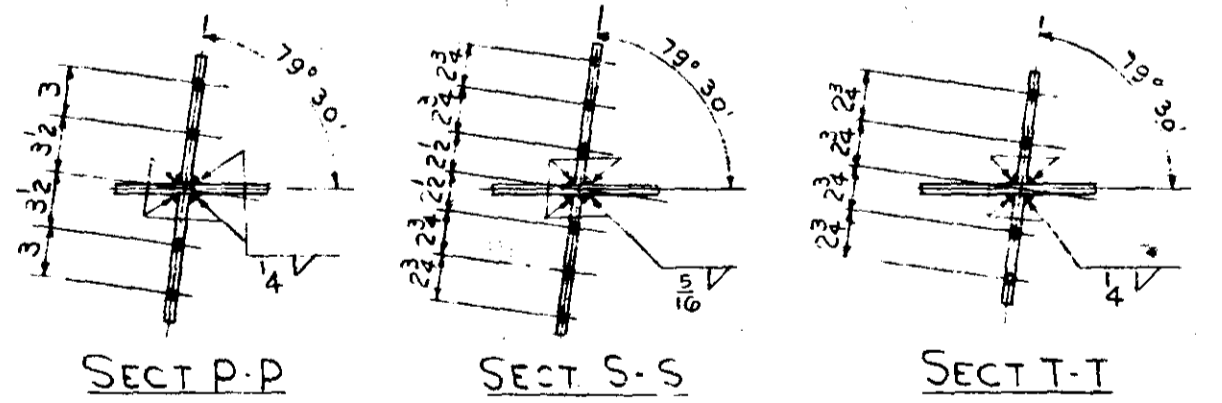
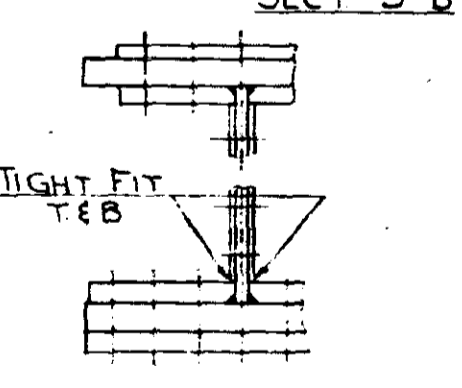
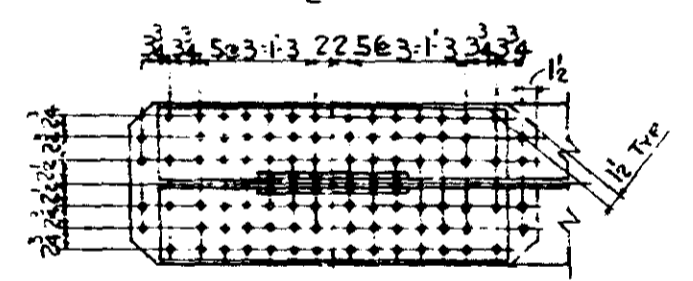
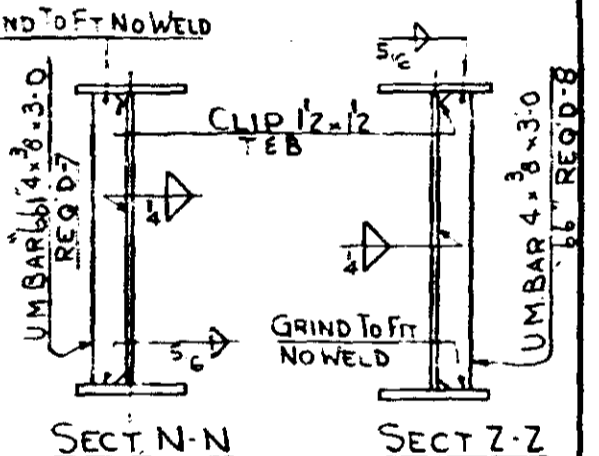
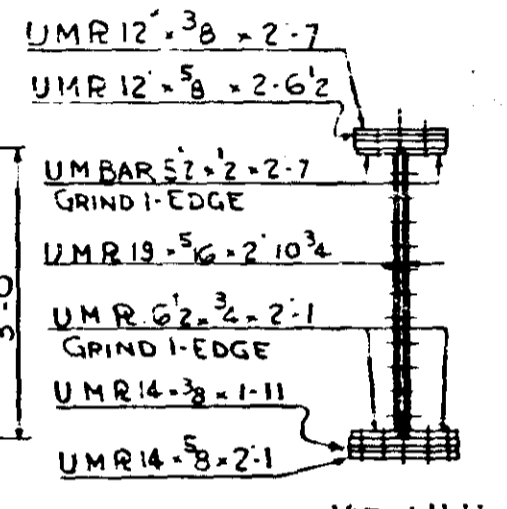
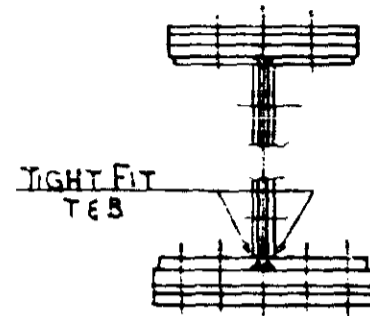
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

GIRDER-DETAILS
 Structure: M.H.D. NO. 9340
 Location: MPLS. MINN.
 Contractor: INDUSTRIAL CONSTR. CO.
 Made by: I.I. Checked by: WES
 Date: 9-1 Shop: 9-1
 ORDER NO. 32647 DRAWING NO. 122

NO.	REVISION	Made by	Date



31 SPA @ 2'-0" = 62'-0"
 280-SHEAR CONN STUDS 3/4" x 4" & FERRULES
 A36



GENERAL NOTE SEE DWG #100

MINN PROJ No IIG 35W-3(58)112
 SPNO 2783-9340B (TH 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

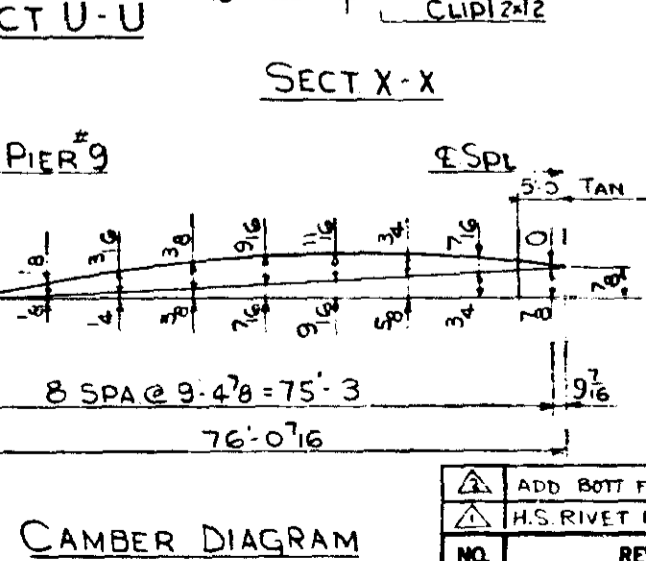
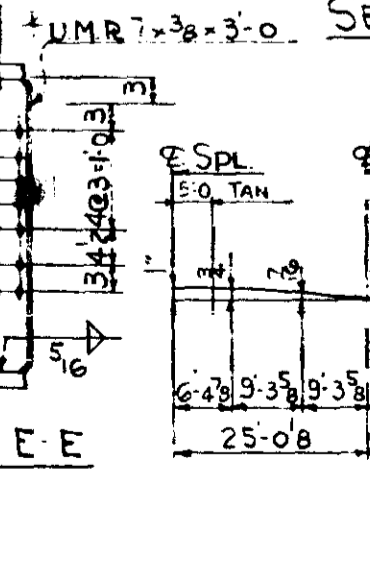
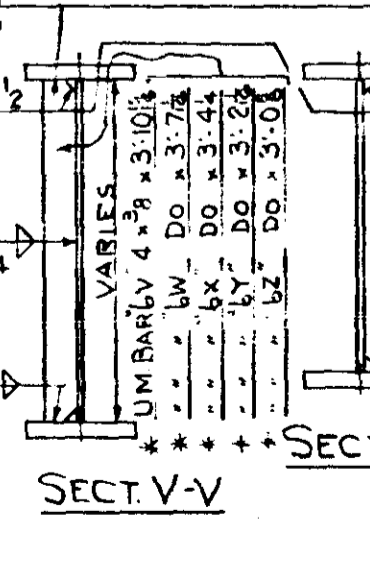
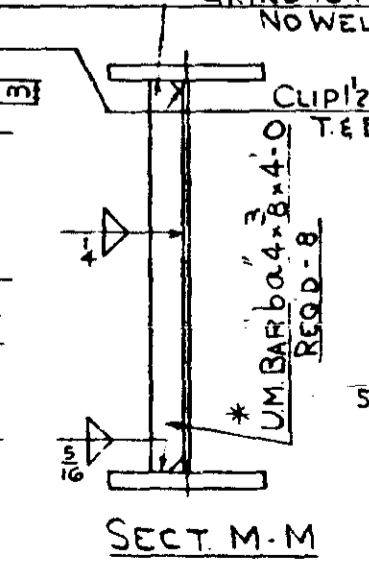
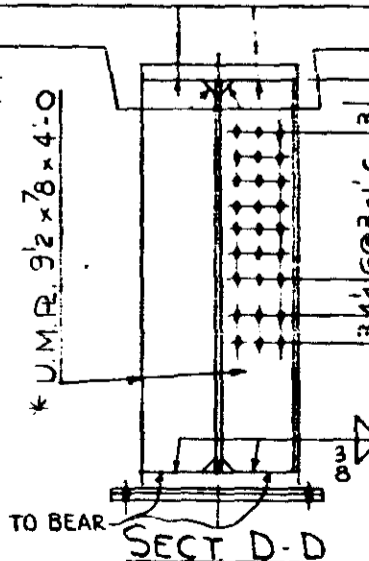
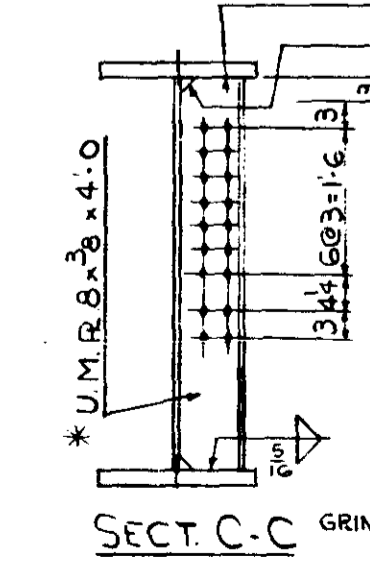
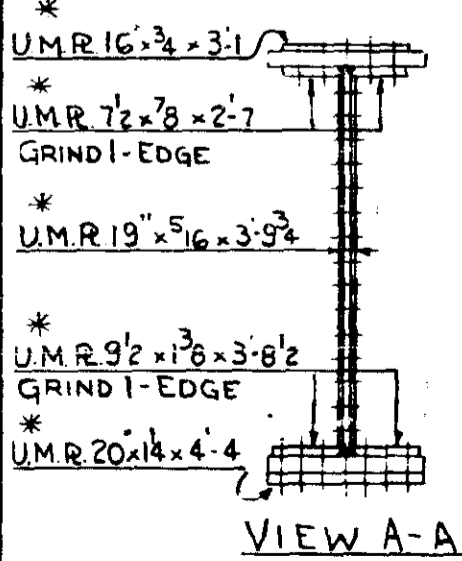
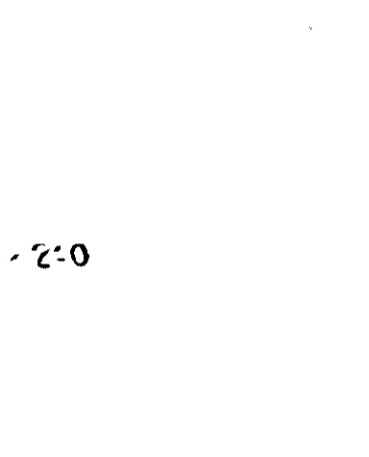
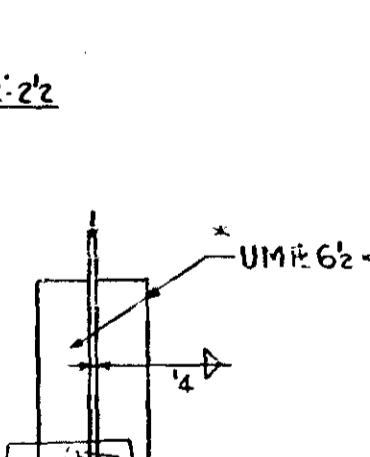
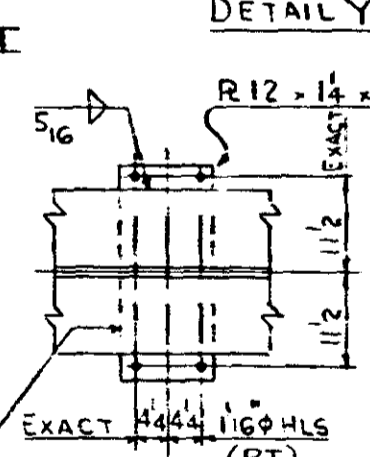
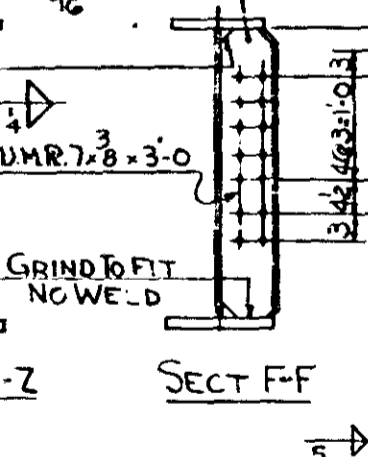
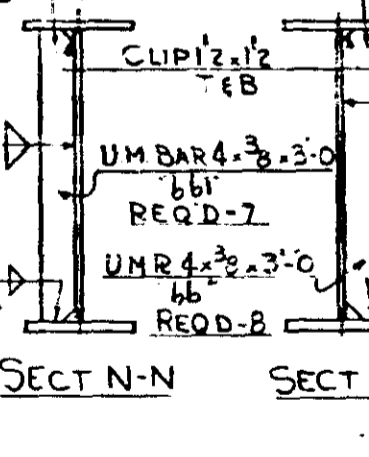
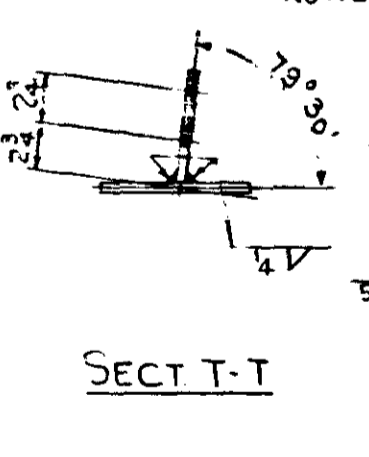
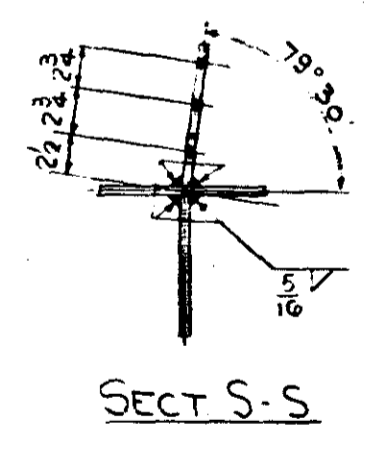
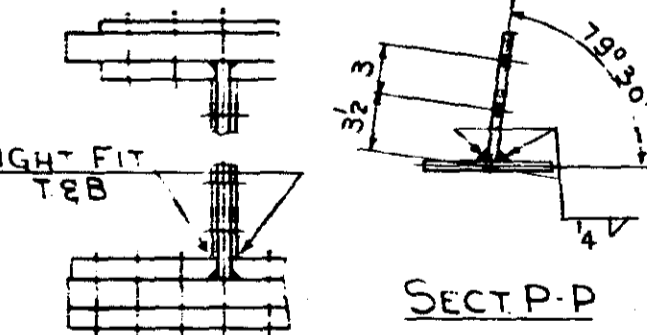
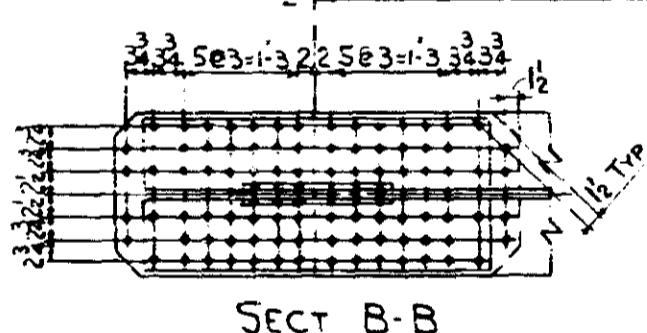
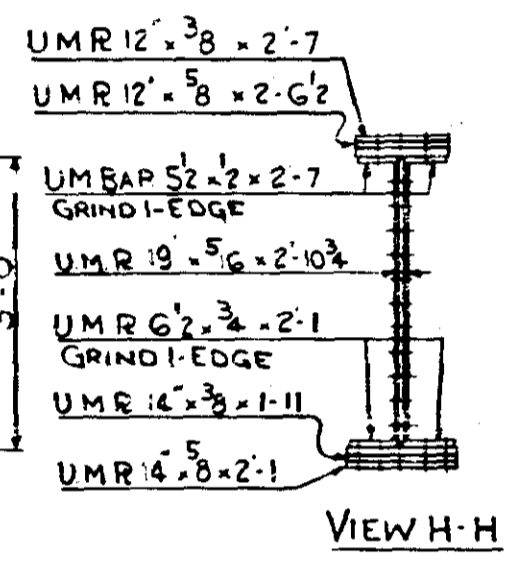
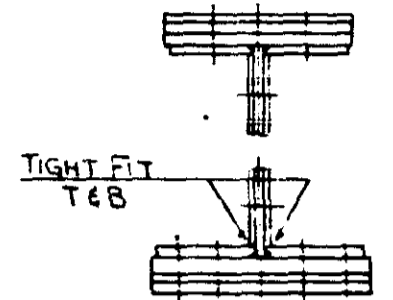
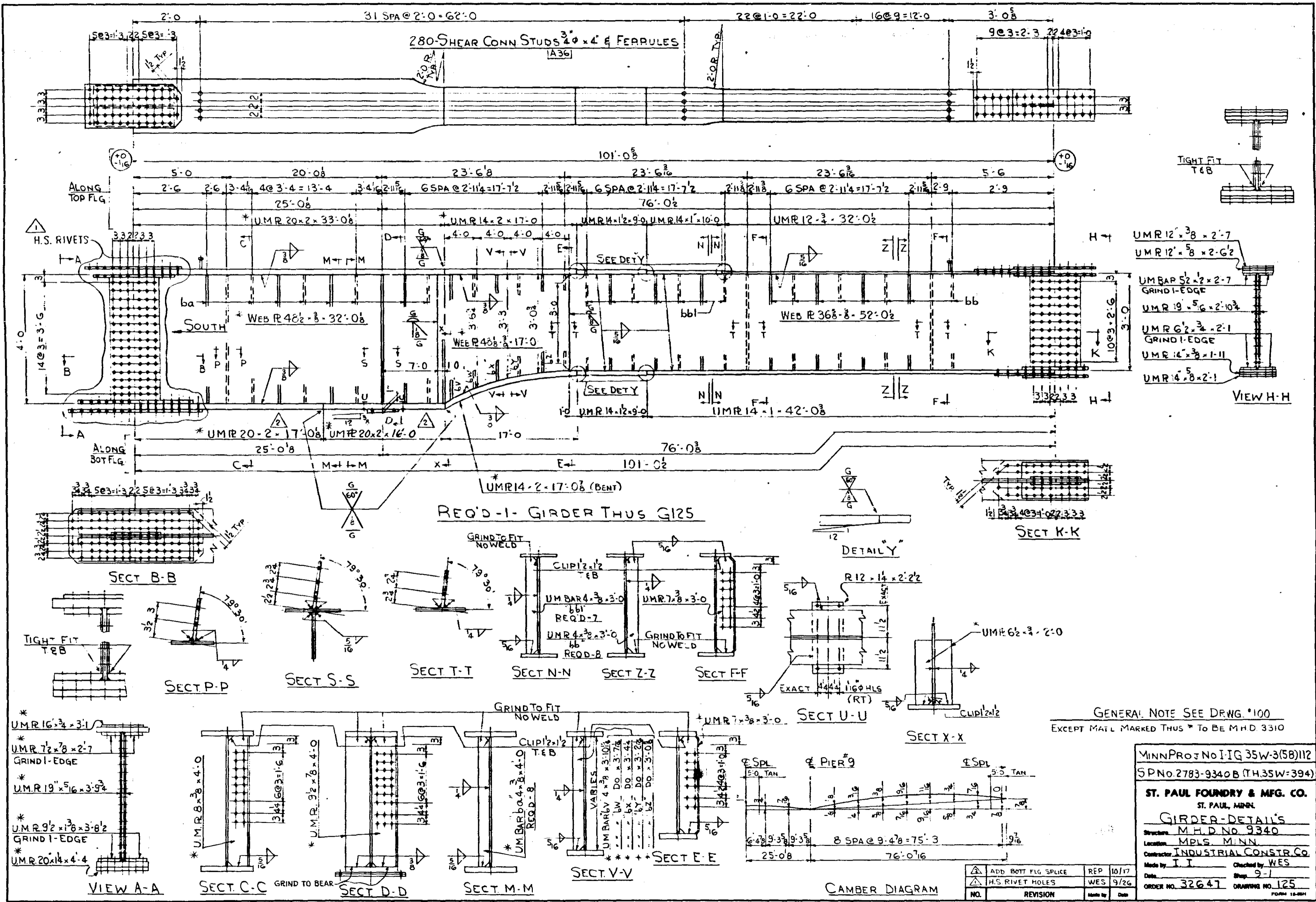
GIRDER-DETAILS
 Structure M.H.D NO 9340

Location MPLS MINN
 Contractor INDUSTRIAL CONSTR CO

Made by I I Checked by WES
 Date _____ Shop 2-1

ORDER NO 32647 DRAWING NO 123
 FORM 18-54

NO.	REVISION	Made by	Date
	H.S. RIVET HOLES	WES	9/26



GENERAL NOTE SEE DRWG. #100
EXCEPT MAIL MARKED THUS * TO BE MHD 3310

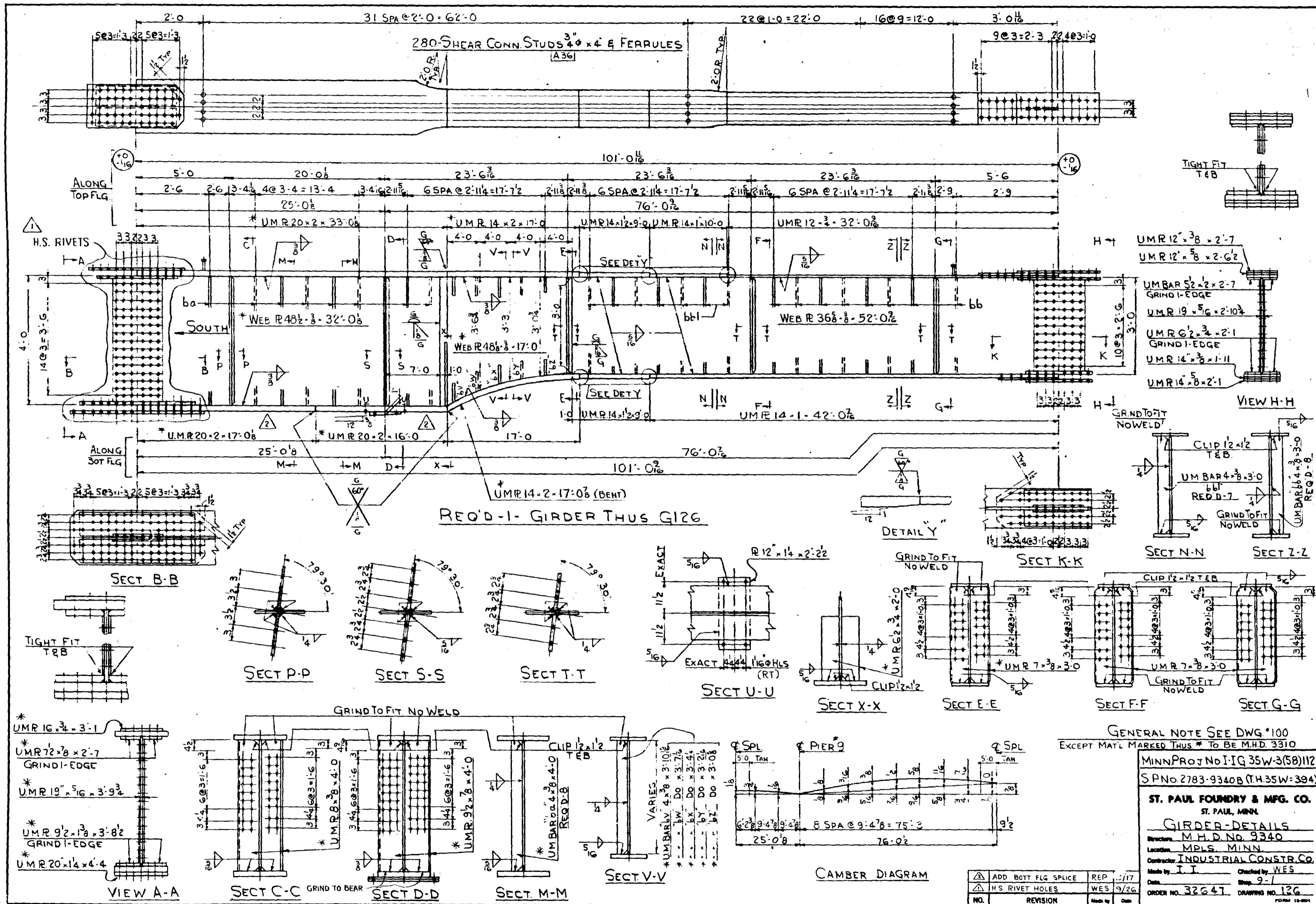
MINNPROJ No I:IG 35W-3(58)112
SP No. 2783-9340 B (TH 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

GIRDER-DETAIL'S

Structure: M.H.D. No. 9340
Location: MPLS. MINN.
Contractor: INDUSTRIAL CONSTR. CO.
Made by: I.I. Checked by: WES
Date: 9-1 Shop: 9-1
ORDER NO. 32647 DRAWING NO. 125
FORM 18-801

NO.	REVISION	Made by	Date
1	ADD BOTTL FLG SPLICE	REP	10/17
2	H.S. RIVET HOLES	WES	9/26



GENERAL NOTE SEE DWG *100
 EXCEPT MAT'L MARKED THUS * TO BE M.H.D. 3310

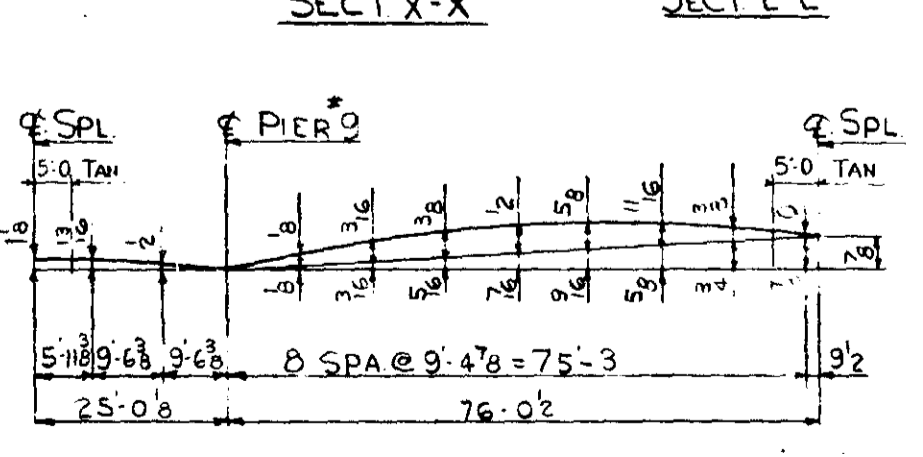
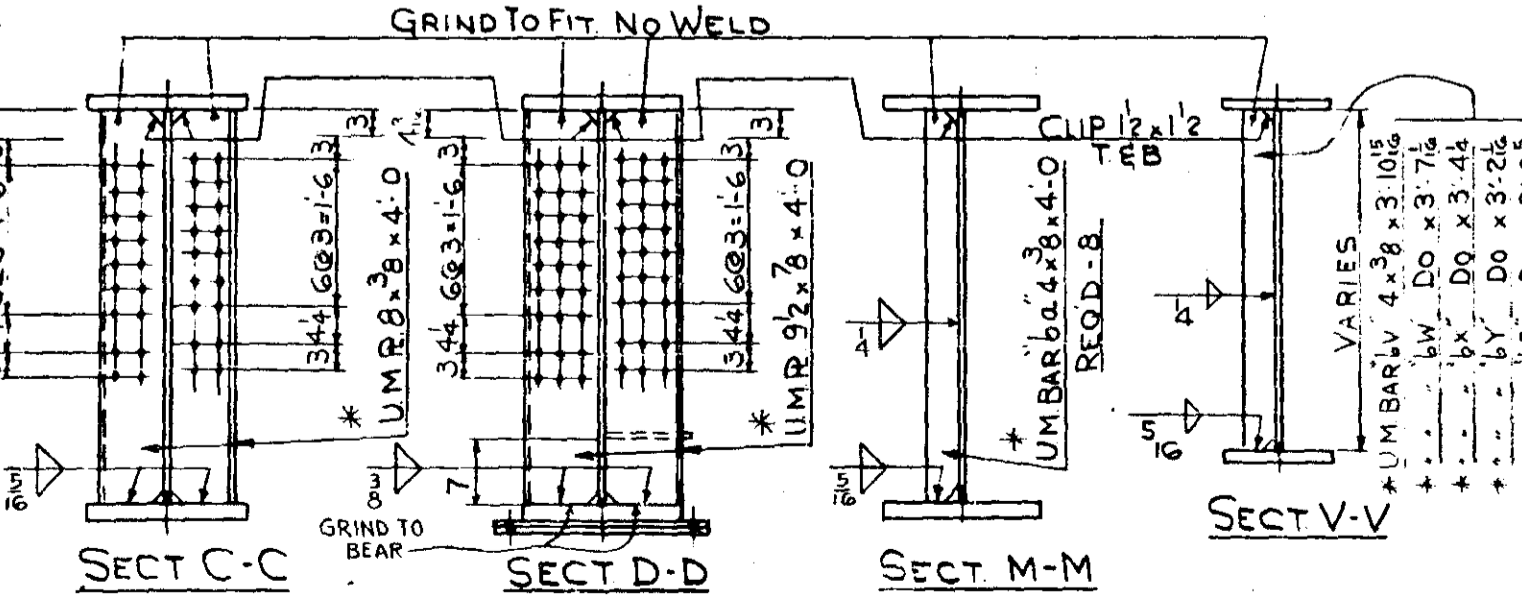
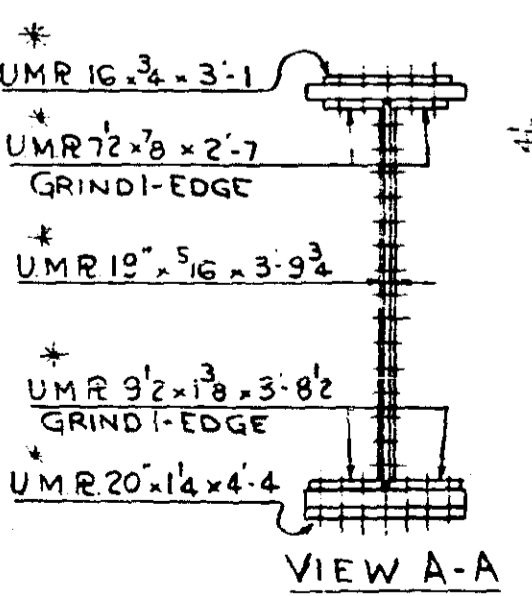
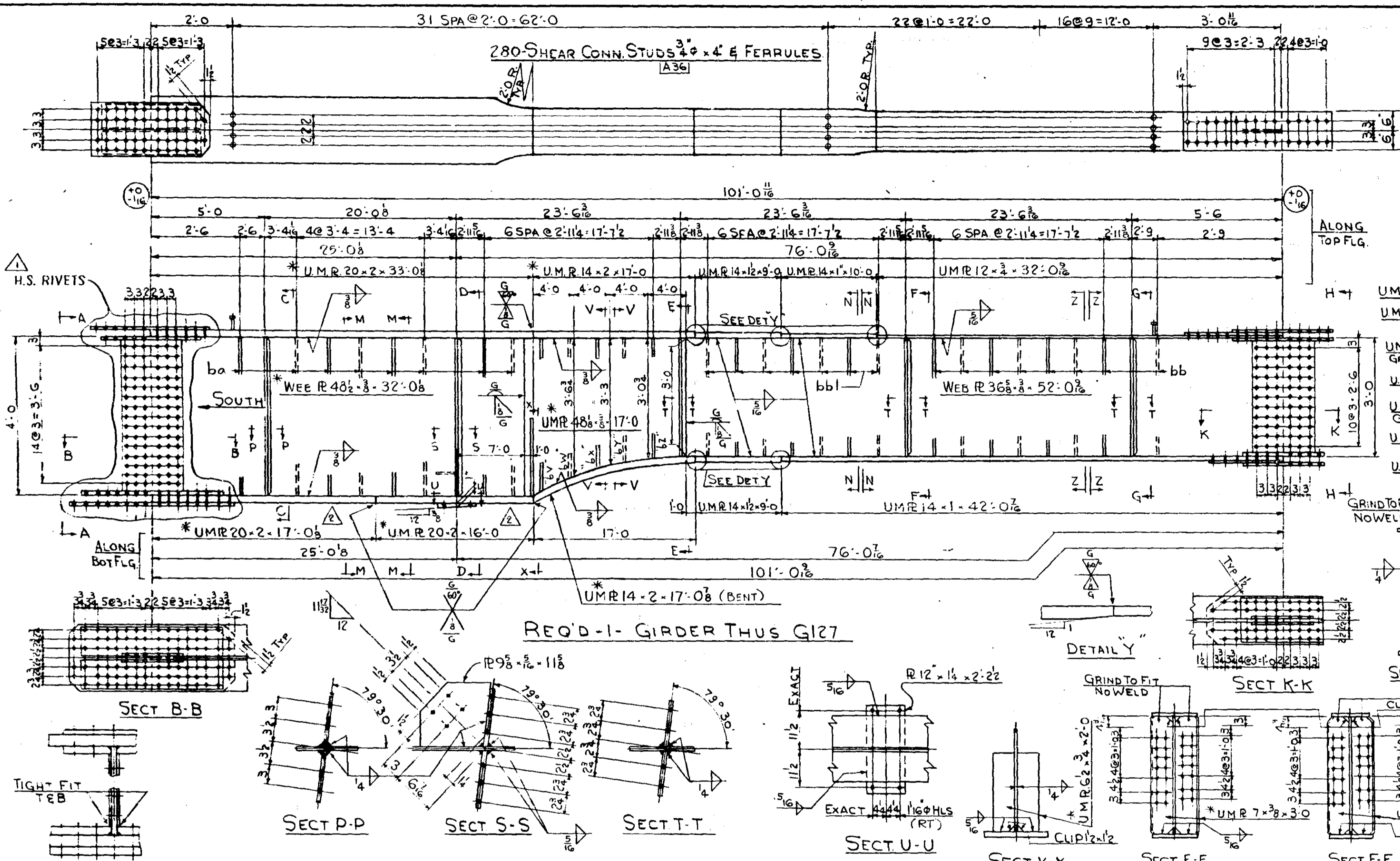
MINN PROJ NO I:IG 35W-3(58)112
 SP NO 2783-9340B (TH.35W-394)

ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

GIRDER-DETAILS
 Structure M.H.D. No 9340
 Location MPLS. MINN.
 Contractor INDUSTRIAL CONSTR. CO.
 Made by I.I. Checked by WES
 Date 9-1-26
 ORDER NO. 32647 DRAWING NO. 126

NO.	REVISION	DATE
	ADD BOT FLG SPLICE	REP 1/17
	H.S. RIVET HOLES	WES 9/26

FORM 12-24-24



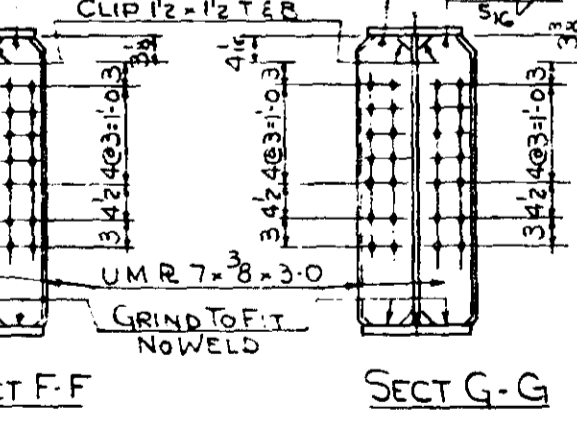
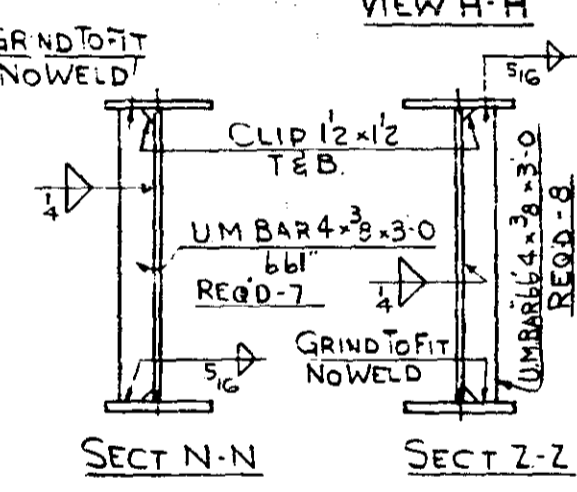
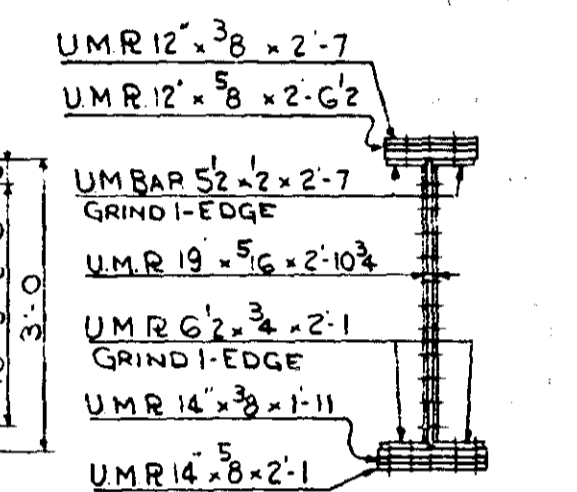
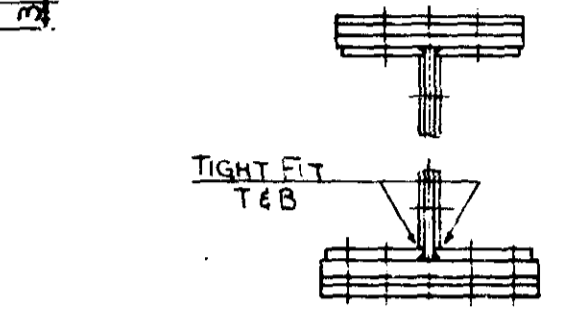
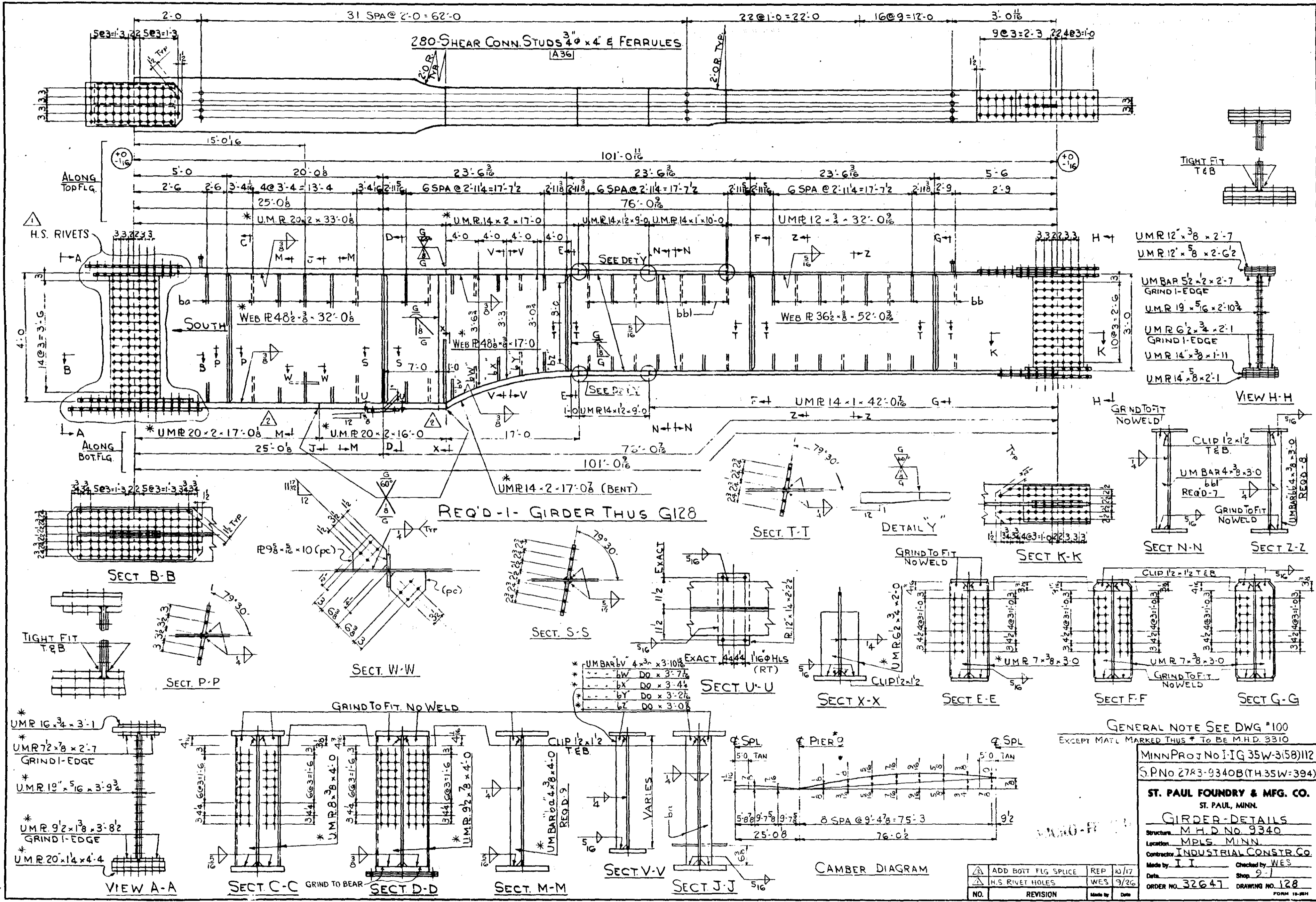
GENERAL NOTE SEE DWG *100
EXCEPT MAT'L MARKED THUS * TO BE M.H.D. 3310

MINNPROJ No. IG 35W-3(58)112
SP No. 2783-9340B (TH 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

GIRDER-DETAILS
Structure M.H.D. No. 9340
Location MPLS MINN
Contractor INDUSTRIAL CONSTR. CO.
Made by I I Checked by WES
Date 9/26 Shop 9-1
ORDER NO. 32647 DRAWING NO. 127

NO.	REVISION	Made by	Date
1	ADD BOTT FLG SPLICE	REP	10/17
2	H'S RIVET HOLES	WES	9/26

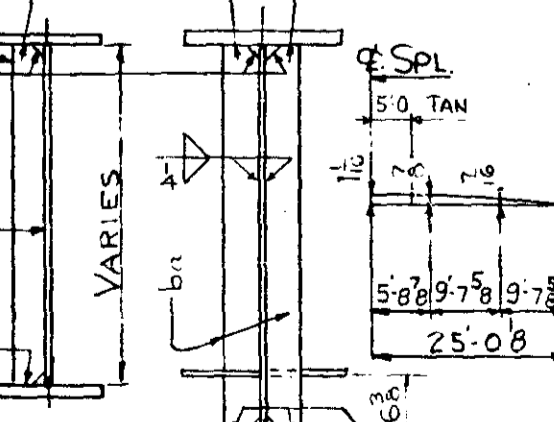


GENERAL NOTE SEE DWG #100 EXCEPT MATL MARKED THUS * TO BE M.H.D. 3310

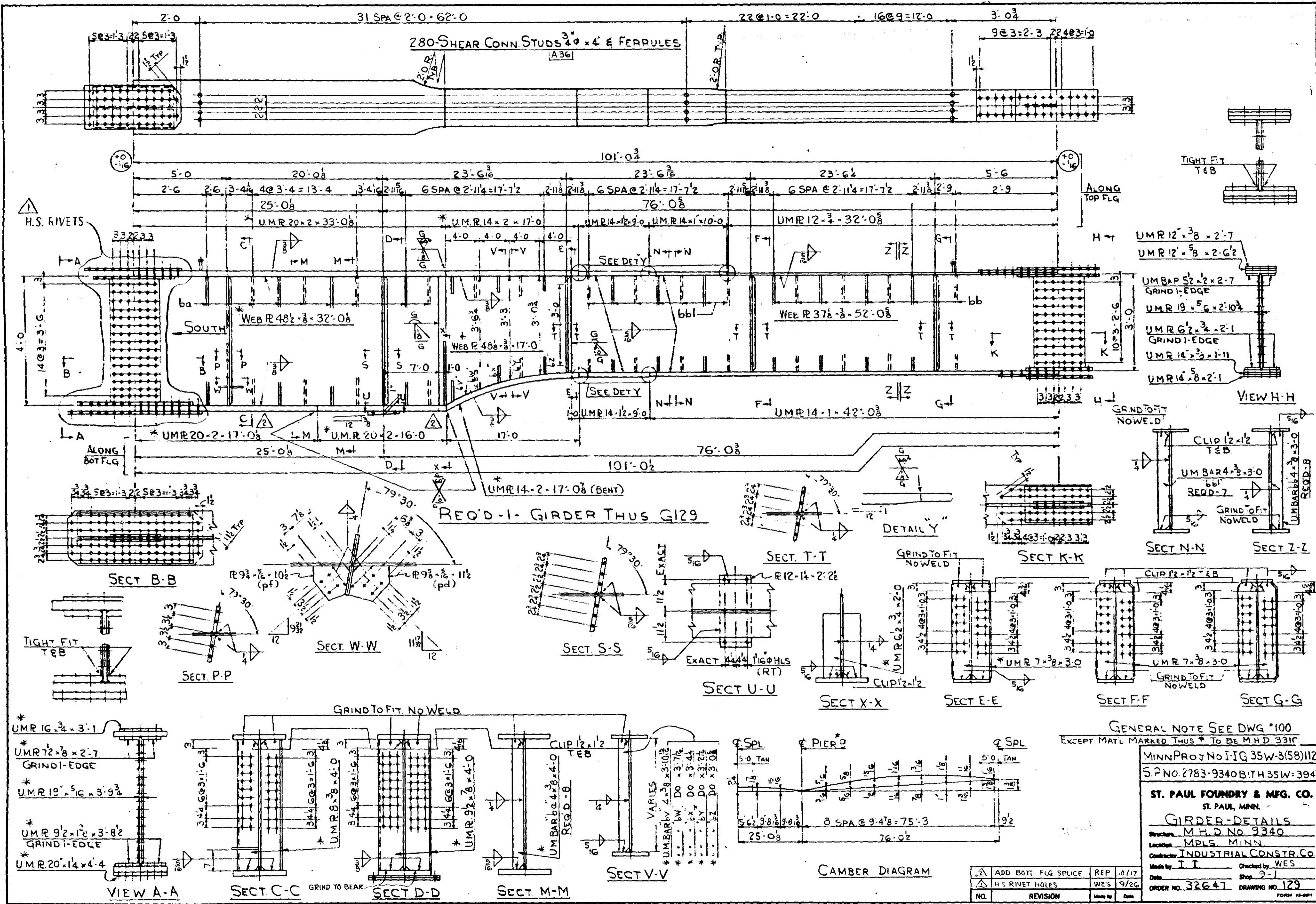
MINNPROJ No IIG 35W-3(58)112
 S.P.NO 27R3-9340B (TH.35W-394)

ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

GIRDER-DETAILS
 Structure M.H.D. NO. 9340
 Location MPLS. MINN.
 Contractor INDUSTRIAL CONSTR. CO.
 Made by I.I. Checked by WES
 Date Shop 9/7
 ORDER NO. 32641 DRAWING NO. 128
 FORM 12-55H



NO.	REVISION	REP	AD
1	ADD BOT FLG SPICE	WES	10/17
2	H.S. RIVET HOLES	WES	9/26

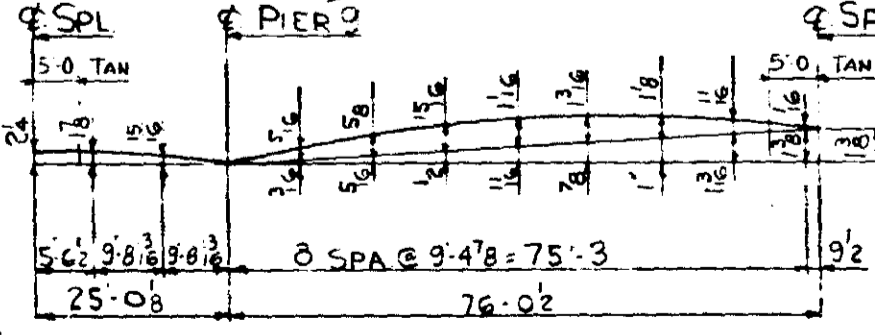


GENERAL NOTE SEE DWG #100
 EXCEPT MATL MARKED THUS * TO BE M.H.D. 331C

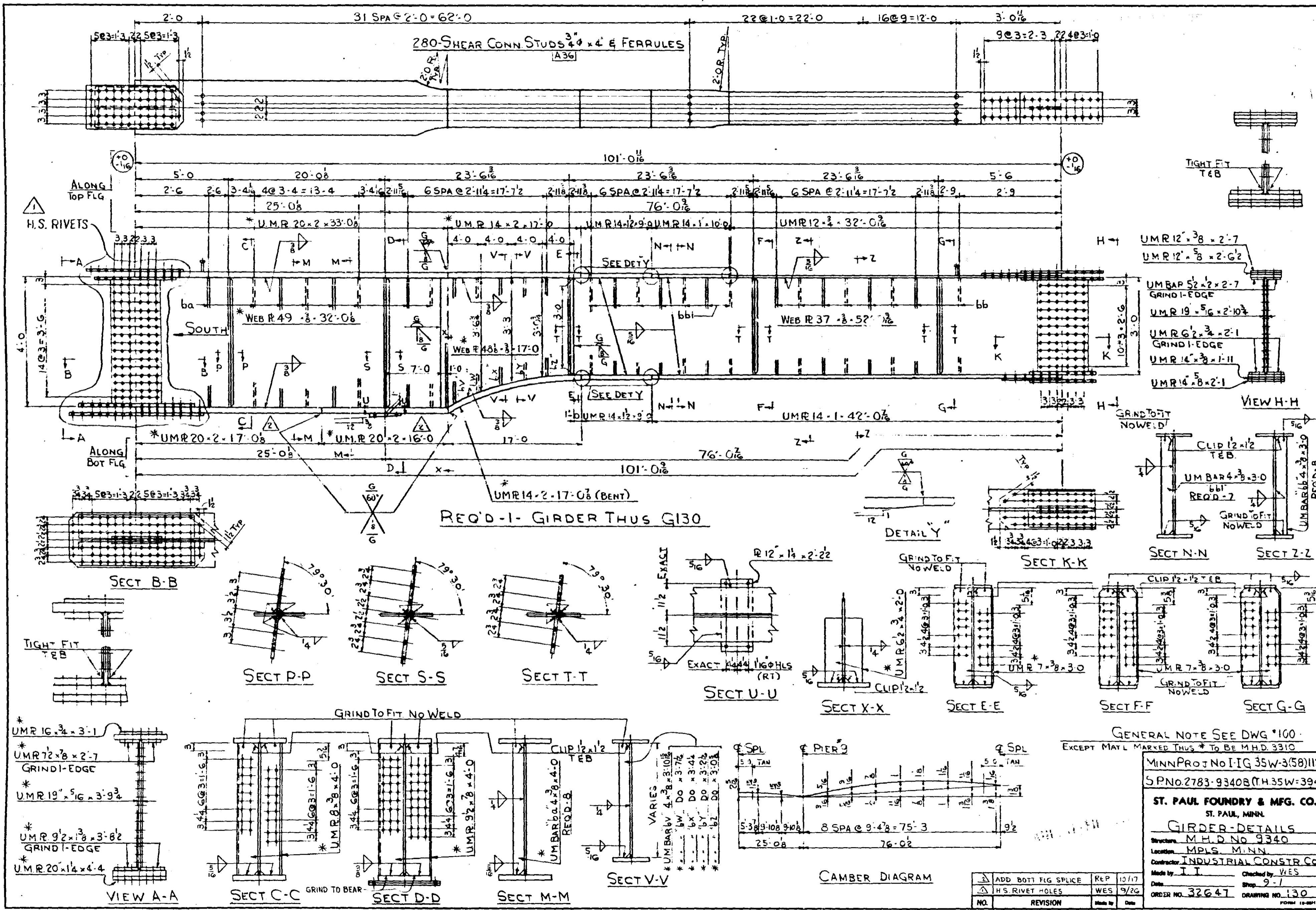
MINN PROJ NO: IG 35W-3(58)112
 SP NO. 2783-9340B (TH.35W-394)

ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

GIRDER-DETAILS
 Structure M.H.D. No 9340
 Location MPLS. MINN.
 Contractor INDUSTRIAL CONSTR. CO.
 Made by I.I. Checked by WES
 Date 9/26 Shop 2-1
 ORDER NO. 32647 DRAWING NO. 129
 FORM 15-58H



NO.	REVISION	MADE BY	DATE
	ADD BOT FLG SPLICE		10/17
	H.S. RIVET HOLES	WES	9/26

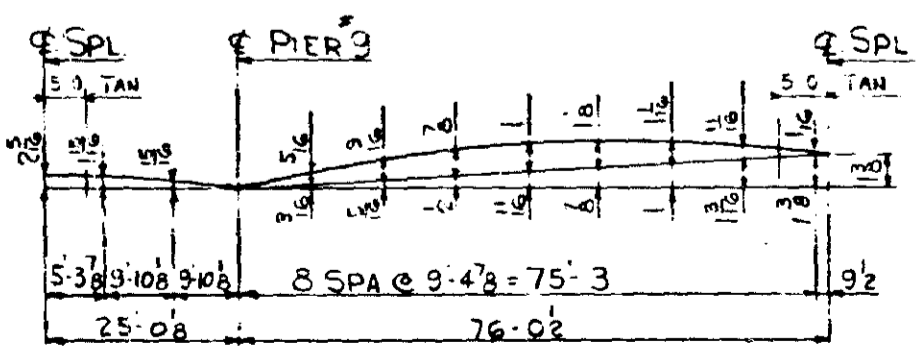


GENERAL NOTE SEE DWG #100
EXCEPT MATL MARKED THUS * TO BE M.H.D. 3310

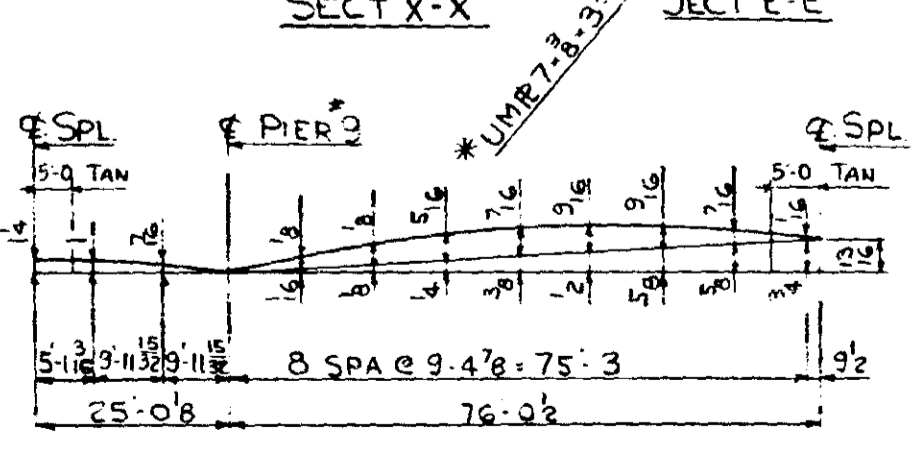
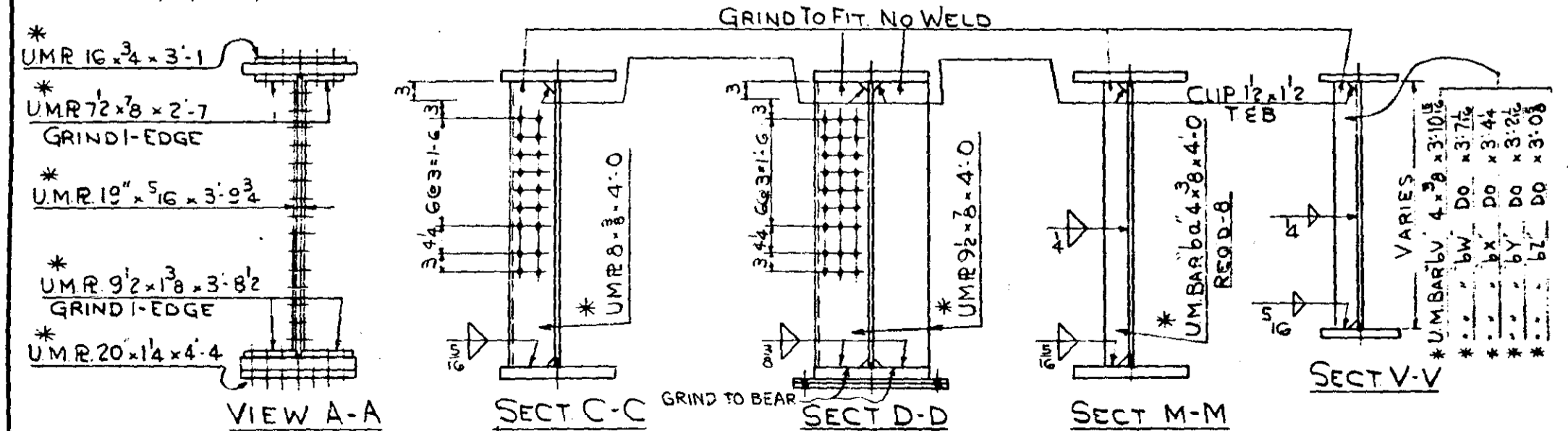
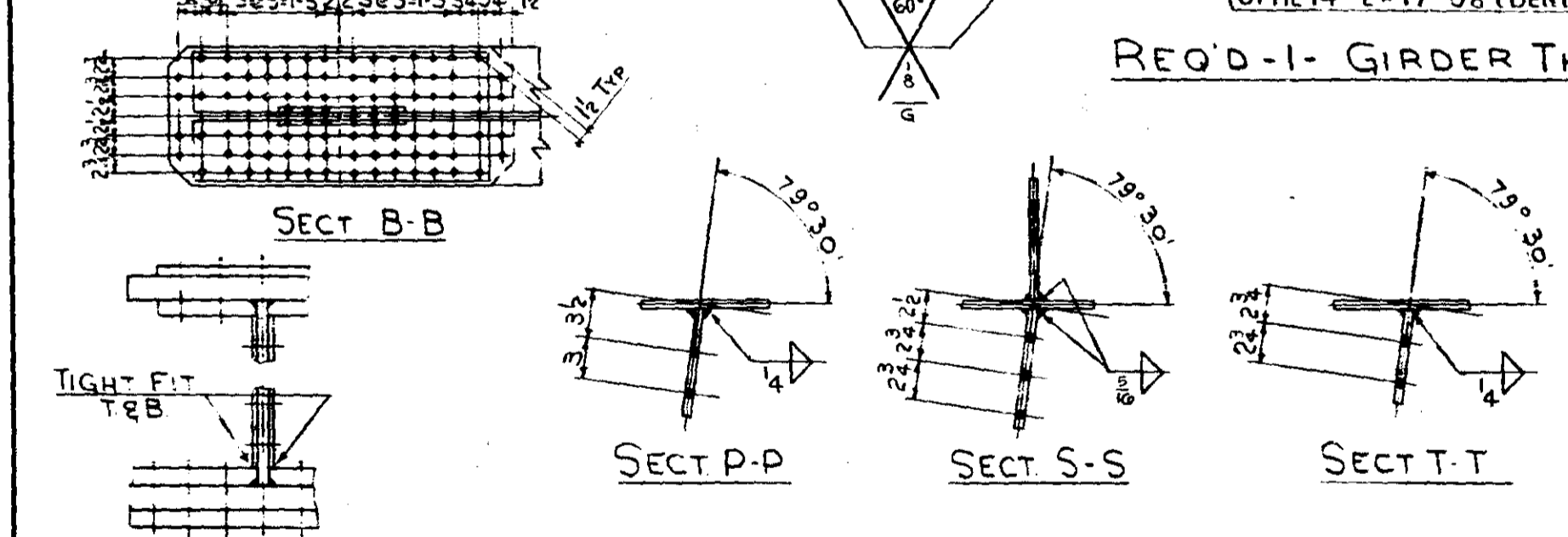
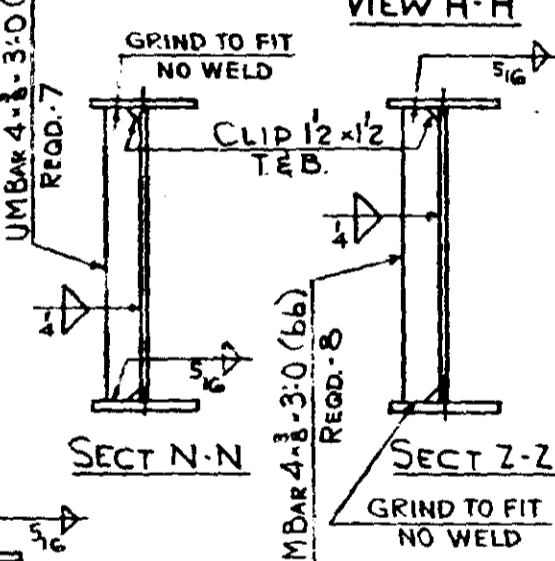
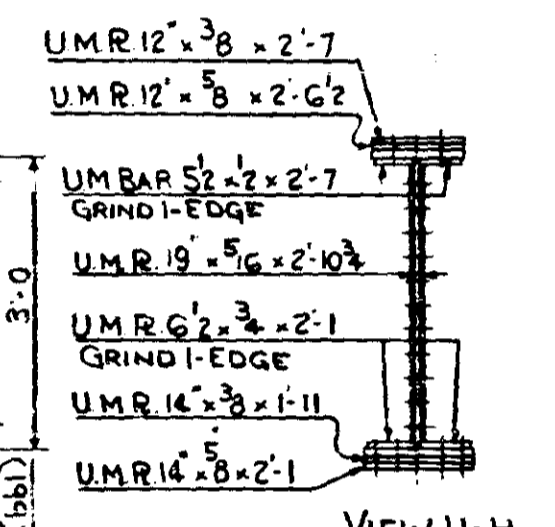
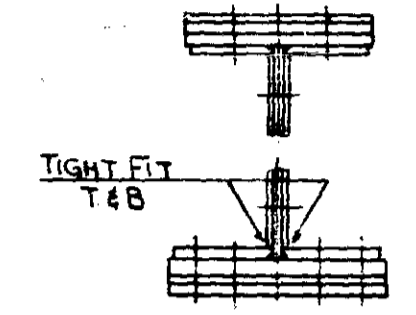
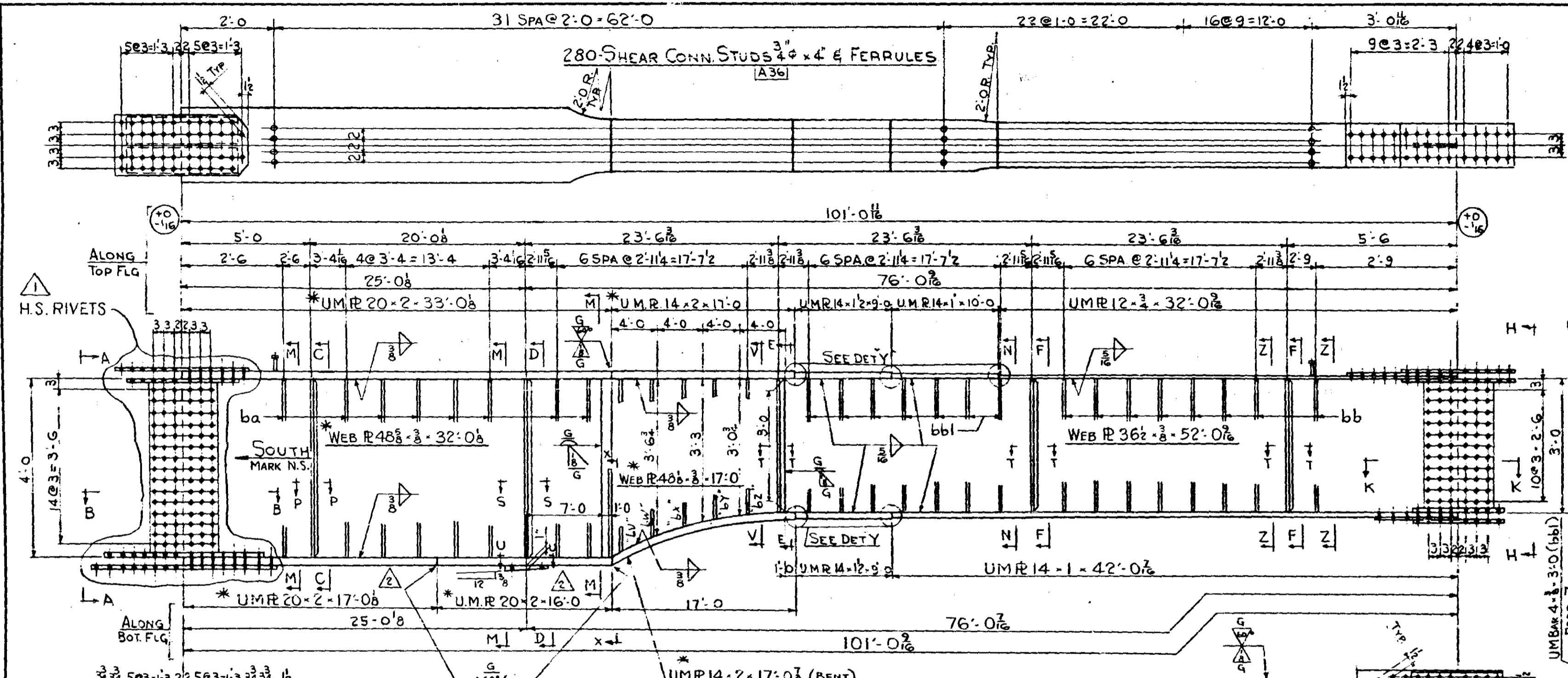
MINNPROJ NO I:IG 35W-3(58)112
SP NO. 2783-9340B (TH 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

GIRDER-DETAILS
Structure M.H.D. No 9340
Location MPLS. MINN.
Contractor INDUSTRIAL CONSTR. CO.
Made by I.I. Checked by WES
Date 9-1 Shop 9-1
ORDER NO. 32647 DRAWING NO. 130



NO.	REVISION	Made by	Date
1	ADD BOTM FIG SPLICE	REP	10/17
2	H.S. RIVET HOLES	WES	9/26



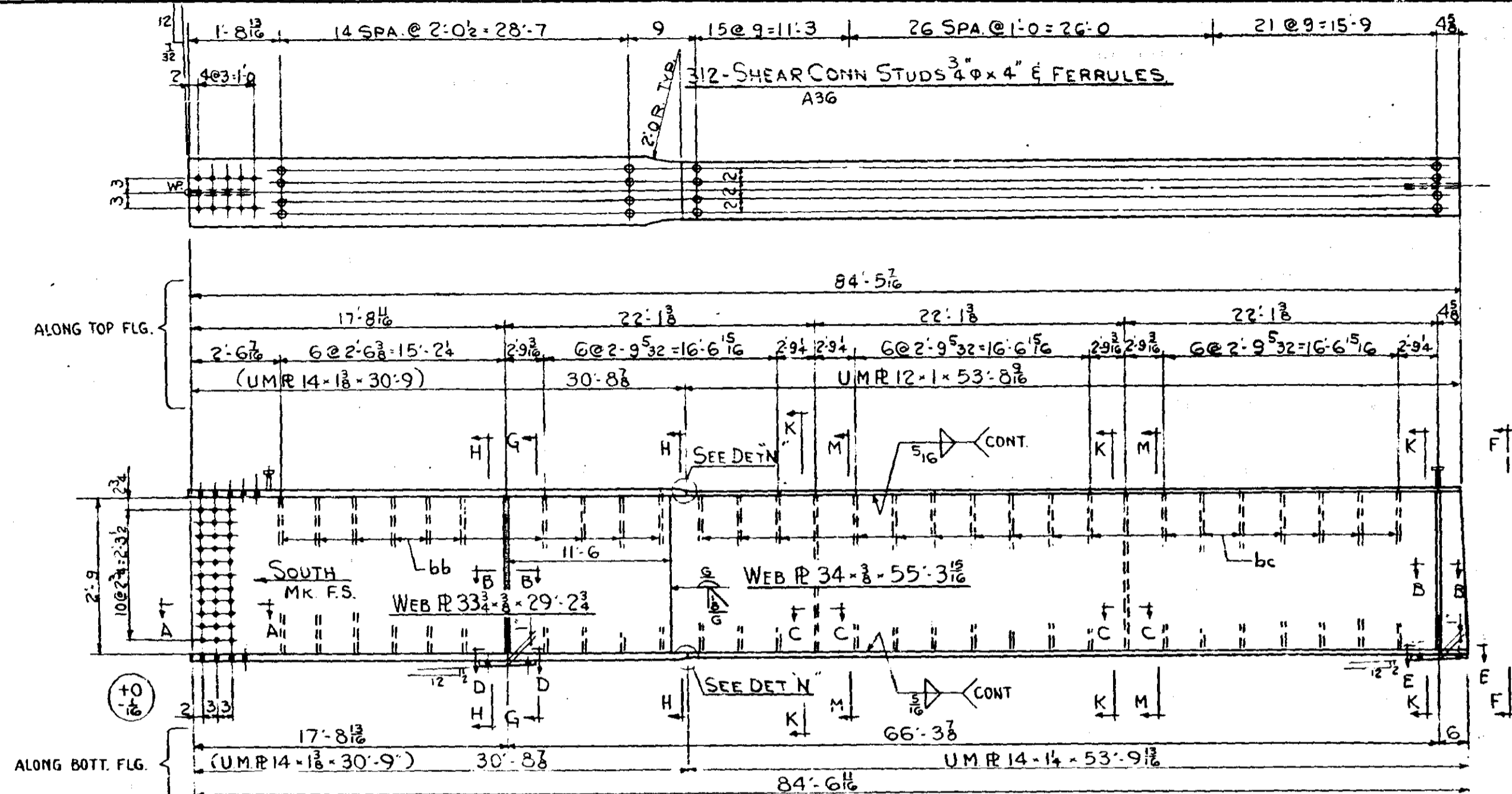
GENERAL NOTE SEE DWG #100
 EXCEPT MATL MARKED THUS * TO BE M.H.D. 3310

MINNPROJ No IG 35W-3(58)112
 S.P.No 2783-9340B(T.H.35W=394)

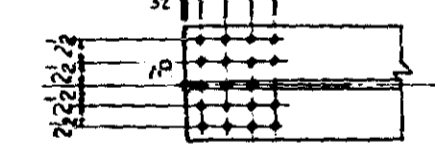
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

GIRDER-DETAILS
 Structure M.H.D. No 9340
 Location MPLS. MINN.
 Contractor INDUSTRIAL CONSTR. CO.
 Made by I.I. Checked by WES
 Date 9-1 Shop 9-1
 ORDER NO. 32647 DRAWING NO. 131
 FORM 12-581

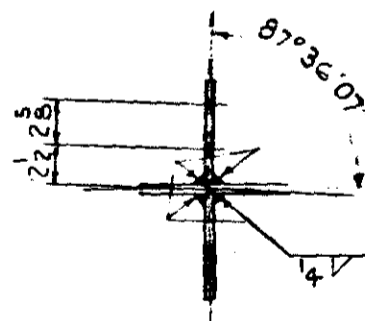
NO.	REVISION	Made by	Date
1	ADD BOT. FLG SPLICE	REP	10/17
2	H.S. RIVET HOLES	WES	9/26



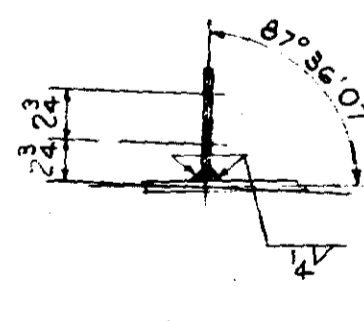
REQ'D-1- GIRDER THUS G132



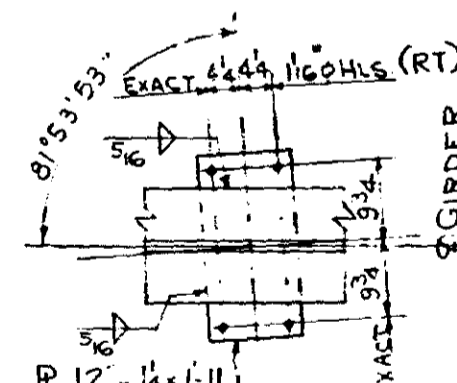
SECT A-A



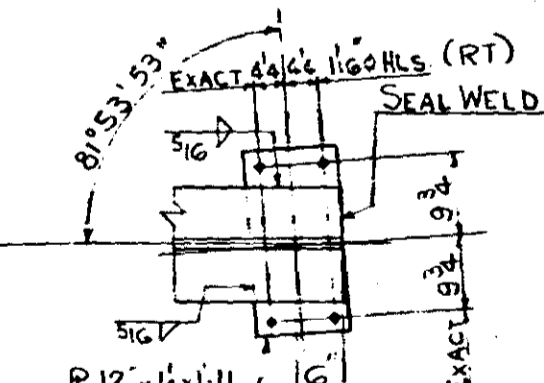
SECT B-B



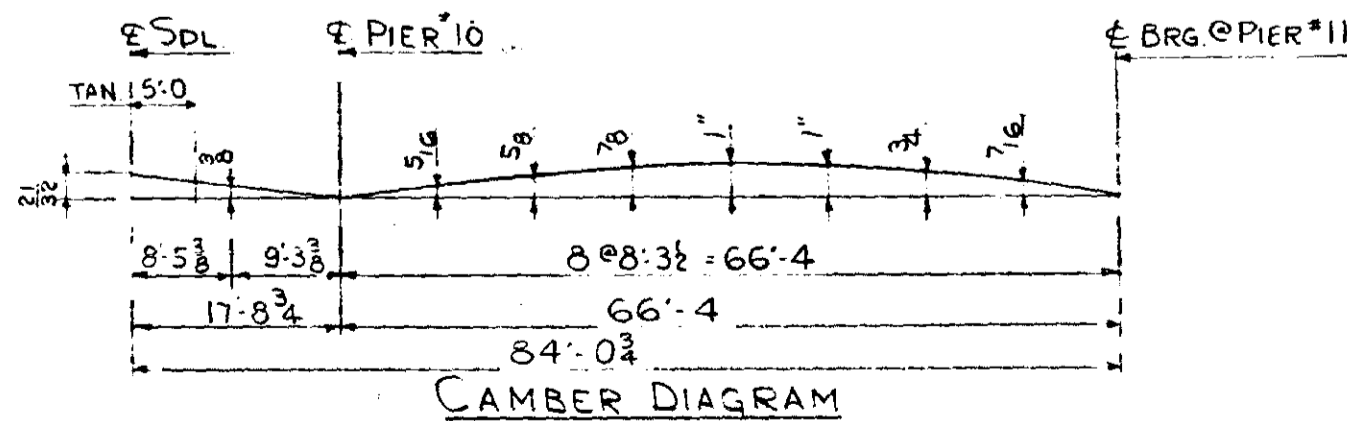
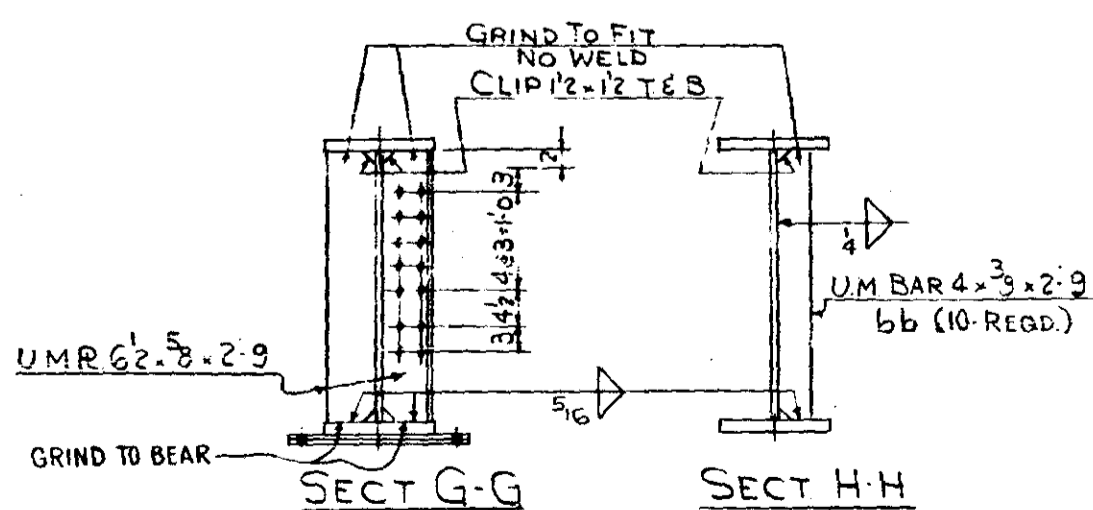
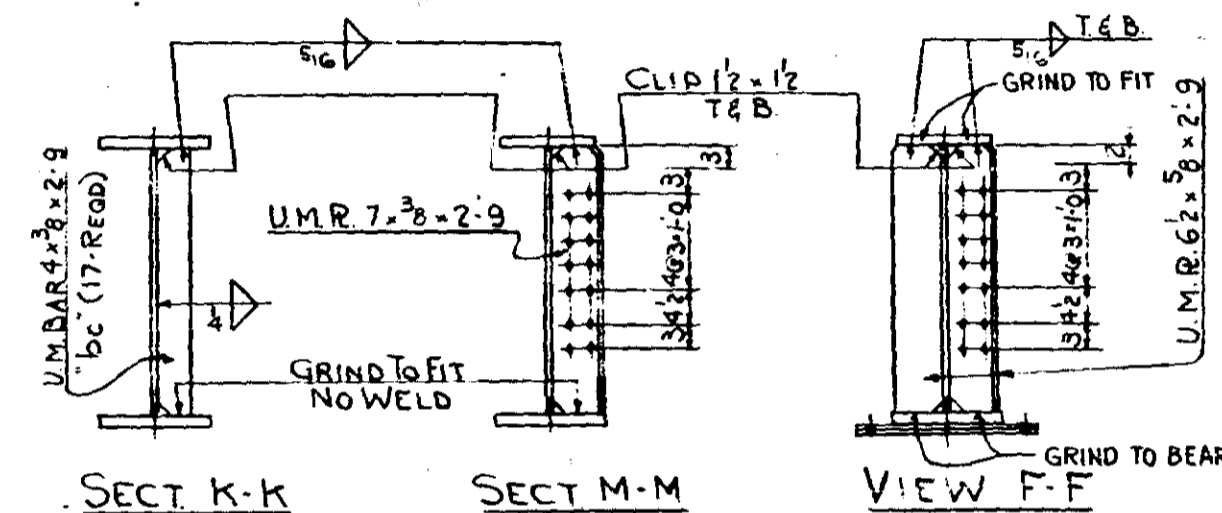
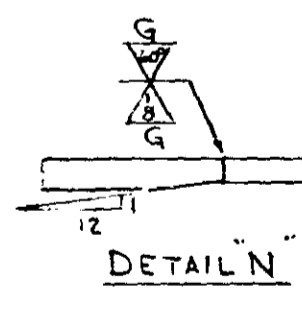
SECT C-C



SECT D-D



SECT E-E



GENERAL NOTE SEE DWG #100

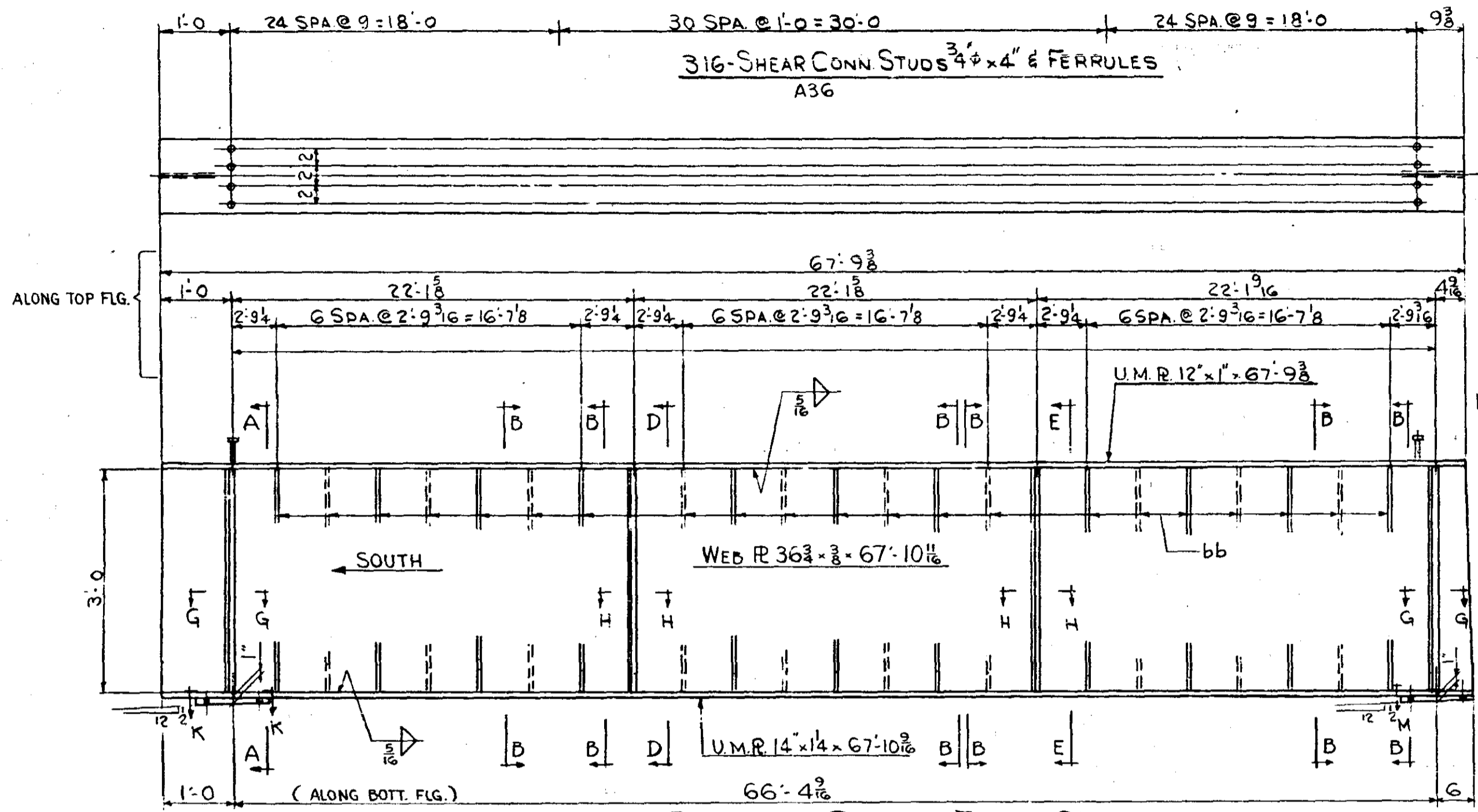
MINN PROJ No IIG 35W-3(58)112
 S.P. No. 2783-9340B (TH 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

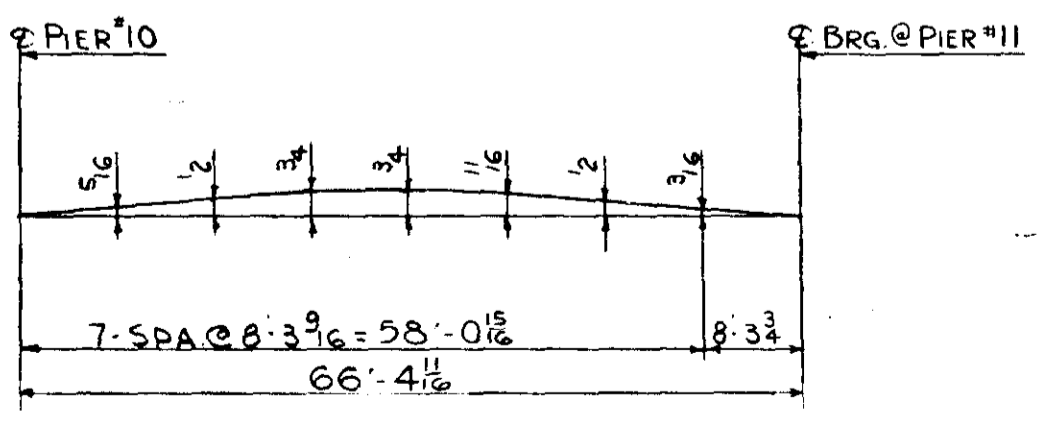
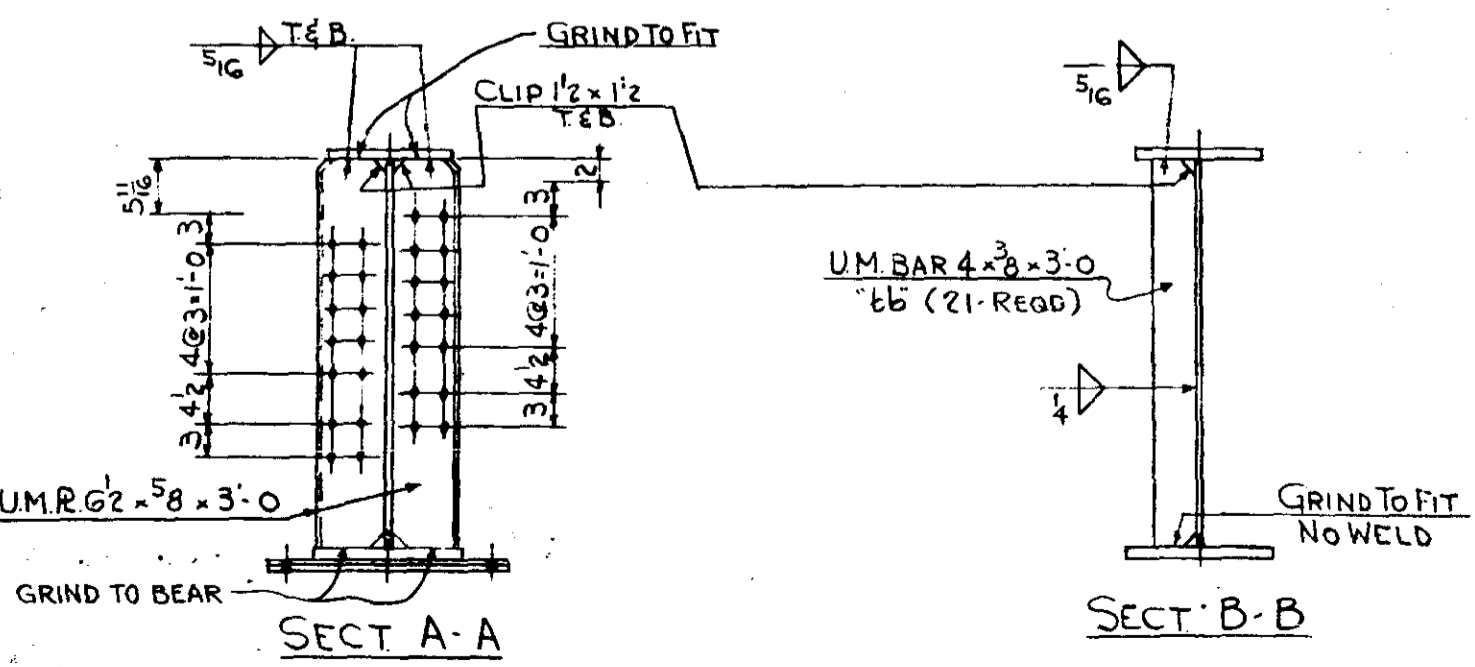
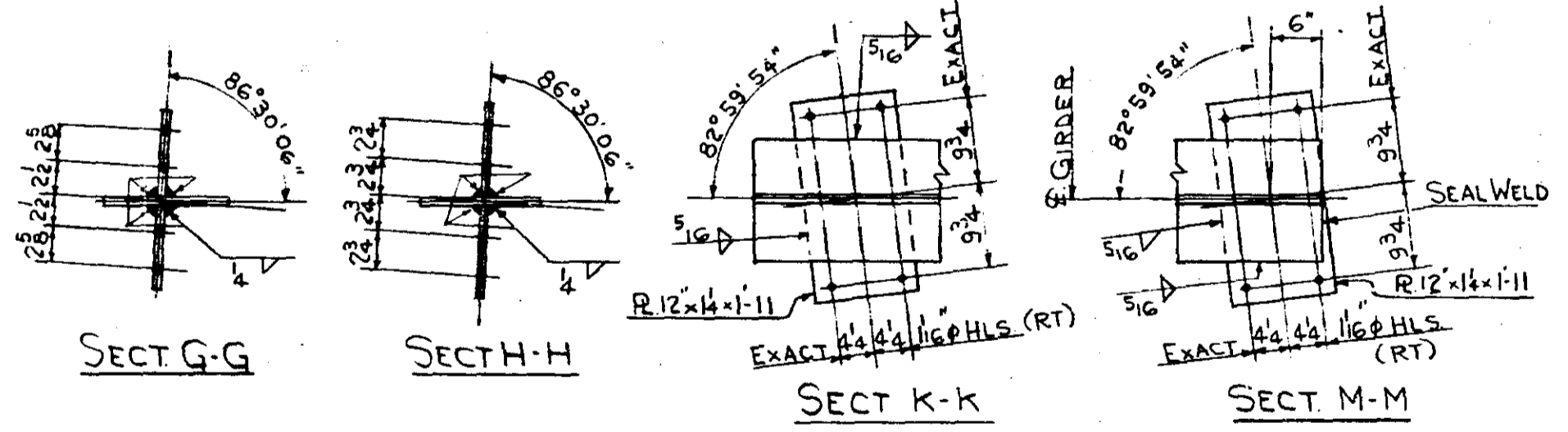
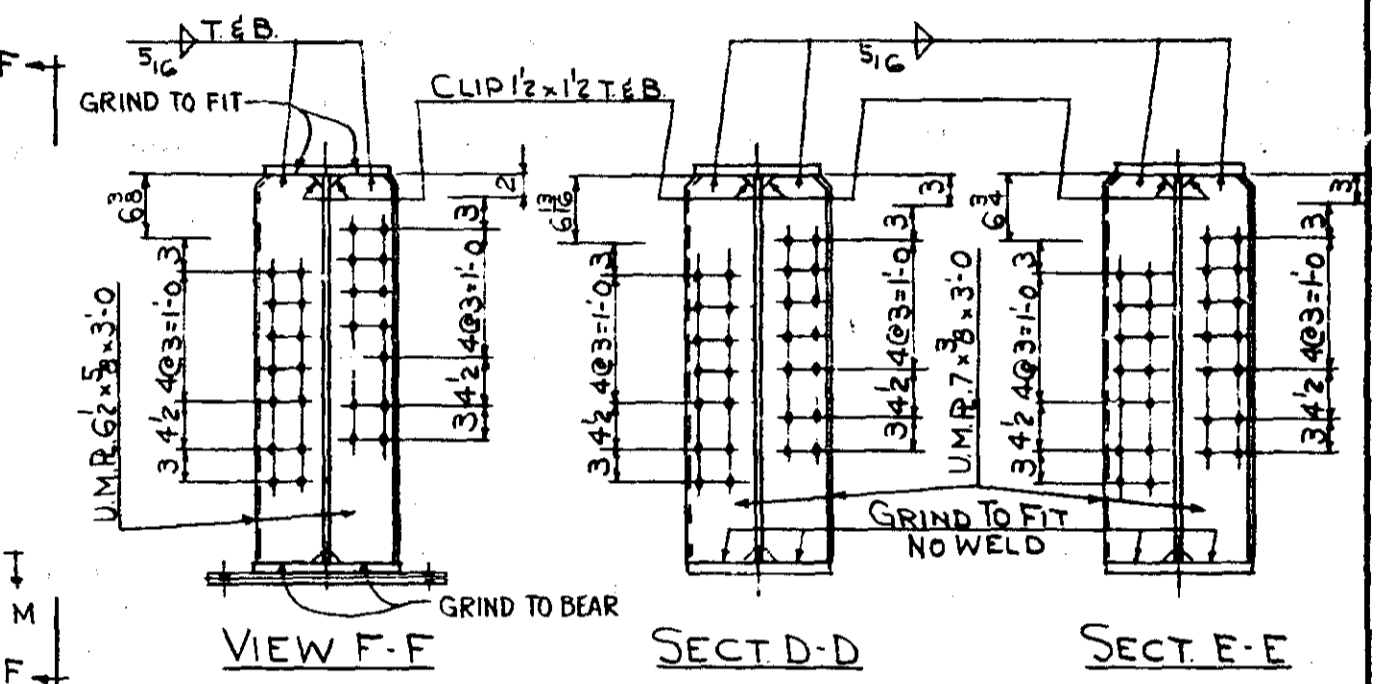
GIRDER-DETAILS

Structure M.H.D. NO. 9340
 Location MPLS. MINN.
 Contractor INDUSTRIAL CONSTR CO.
 Made by I I Checked by RP = WES
 Date 8-25-66 Shop 8-25-66
 ORDER NO. 32647 DRAWING NO. 132

NO.	REVISION	Made by	Date



REQ'D -1- GIRDER THUS G133



CAMBER DIAGRAM

GENERAL NOTE SEE DWG. 100

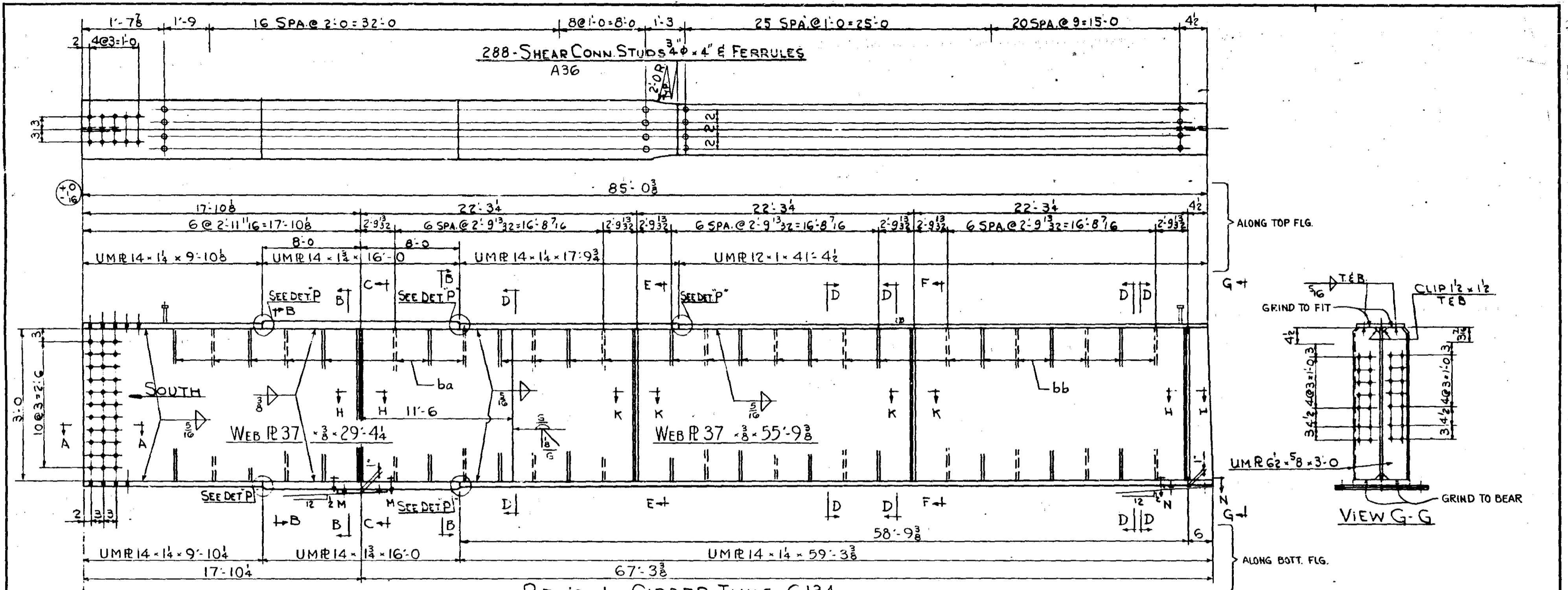
MINN PROJ NO. I.G. 35W-3(58)11Z
SP. NO. 2783-9340B (TH. 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.

GIRDER-DETAILS

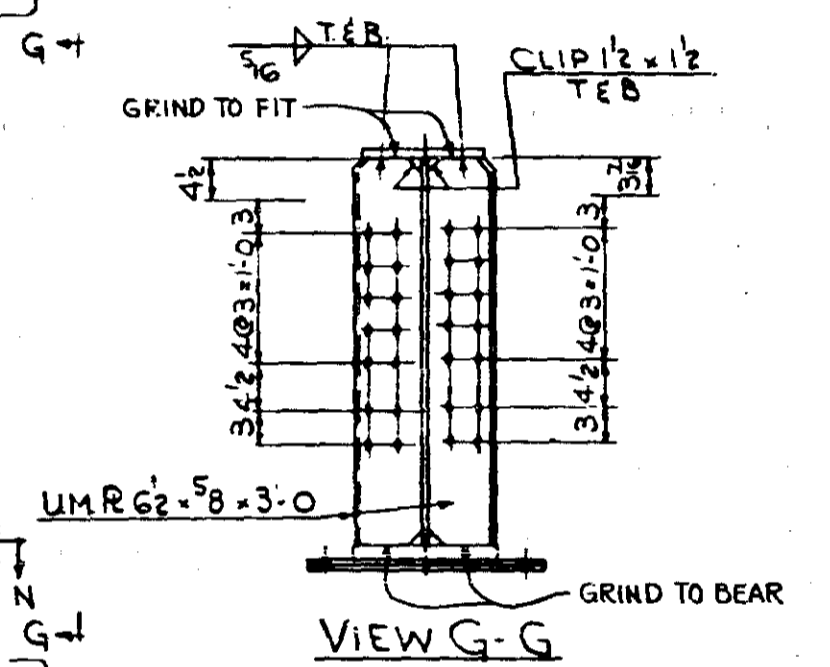
Structure: M.H.D. NO. 9340
Location: MPLS. MINN.
Contractor: INDUSTRIAL CONSTR. CO.
Made by: I.I. Checked by: RP & WES
Date: 8-25-66 Shop: 8-25-66
ORDER NO. 32647 DRAWING NO. 33

NO.	REVISION	Made by	Date

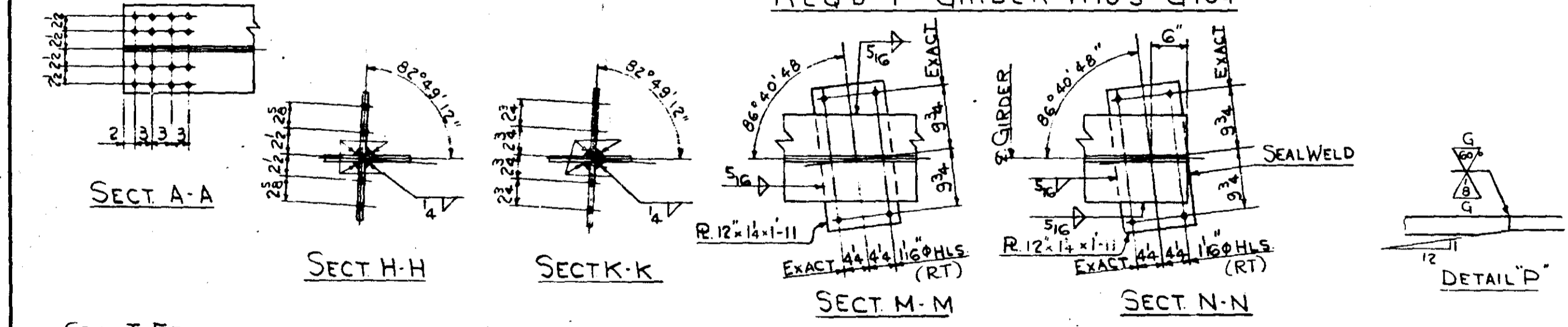


ALONG TOP FLG.

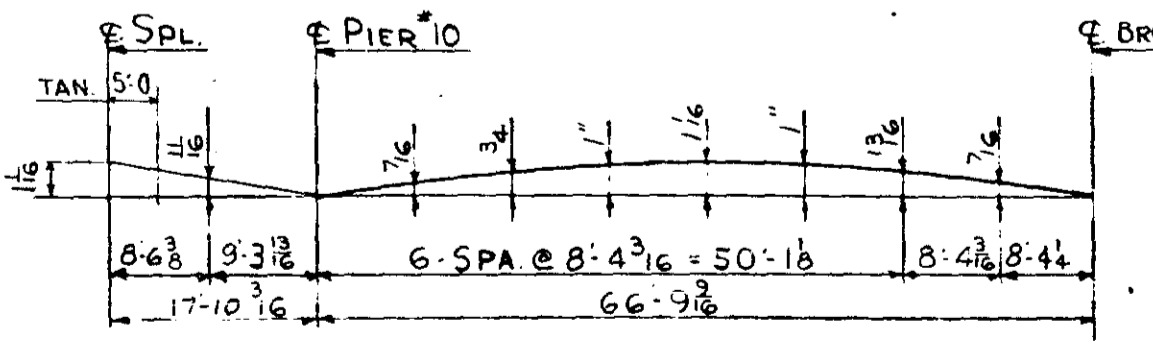
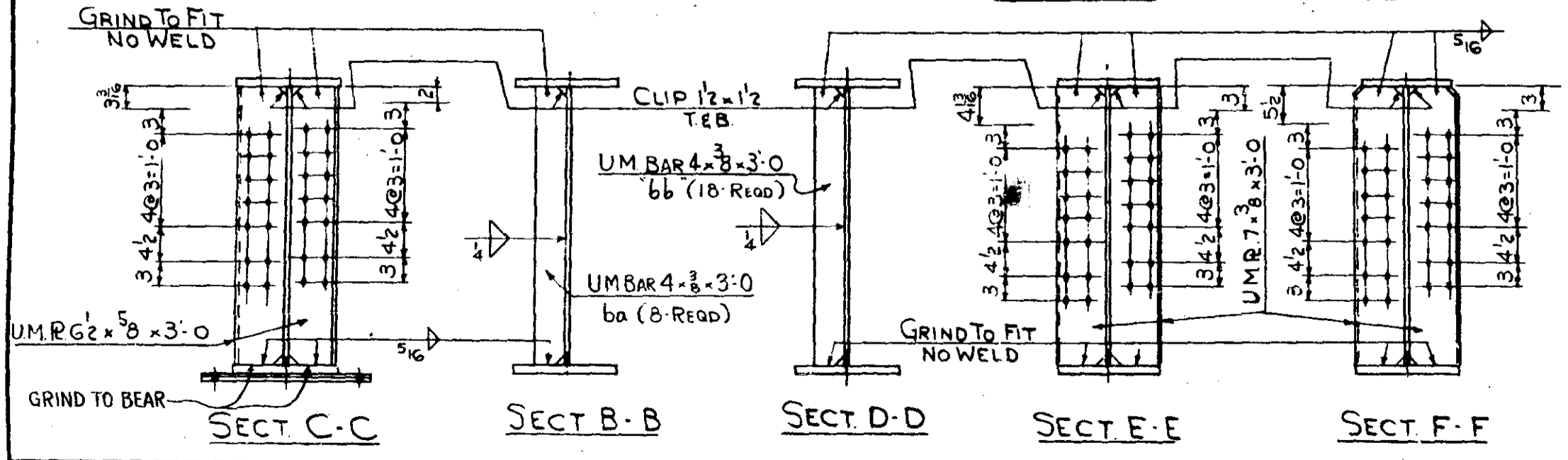
ALONG BOT. FLG.



REQ'D - 1 - GIRDER THUS G134



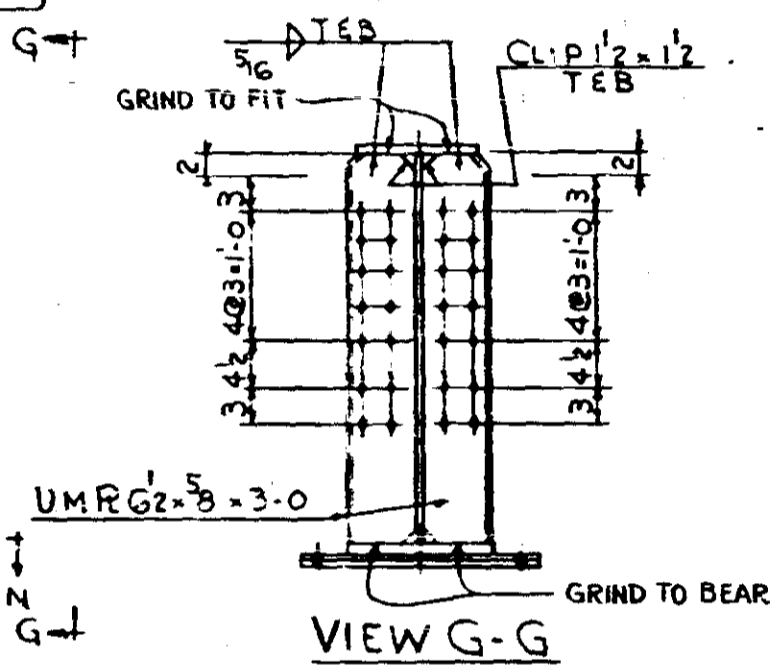
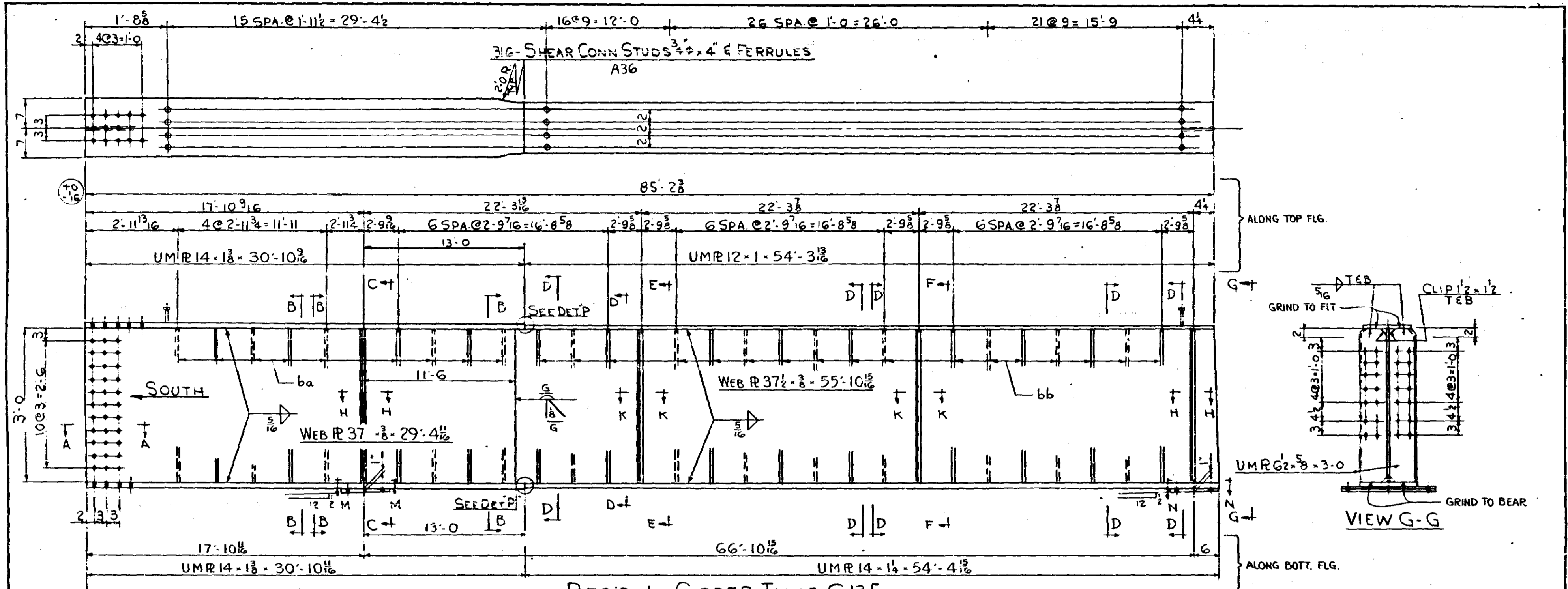
GENERAL NOTE SEE DWG # 100



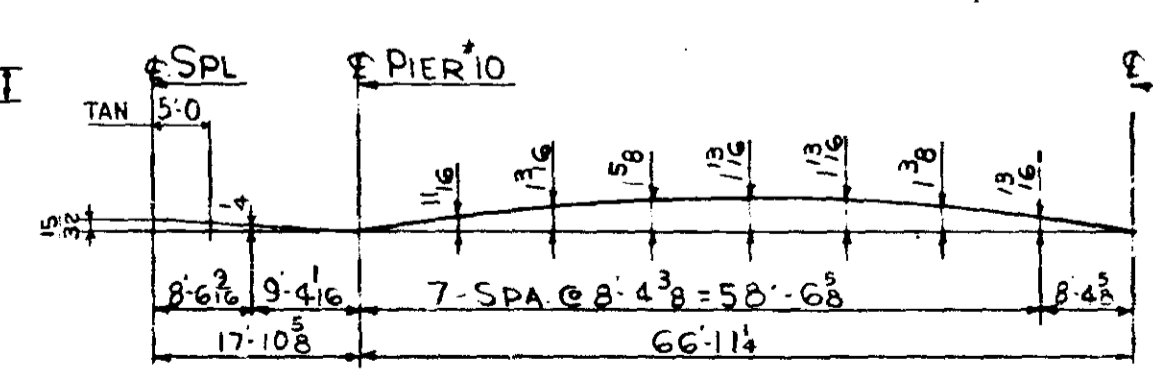
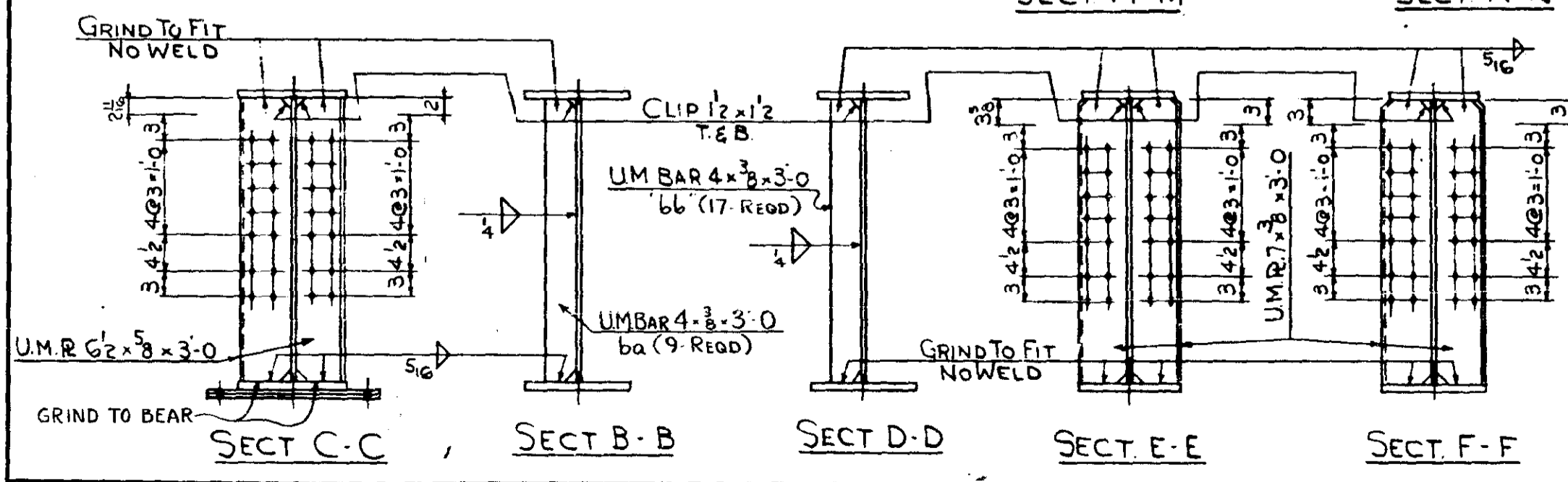
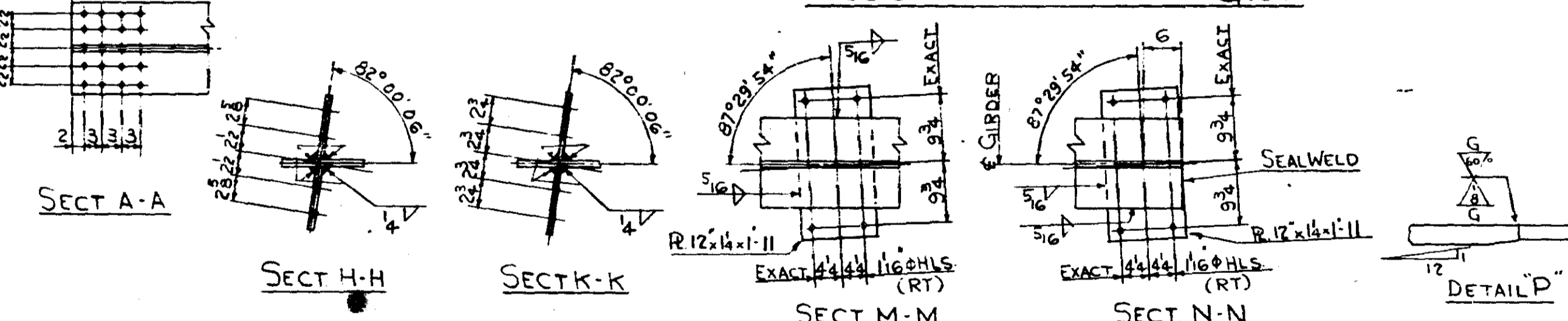
CAMBER DIAGRAM

MINN PROJ NO. I-IG 35W-3(58)112
 S.P. NO. 7783-9340B (T.H. 35W-394)
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.
GIRDER-DETAILS
 Structure: M.H.D. NO. 9340
 Location: Mpls. MINN.
 Contractor: INDUSTRIAL CONSTR. CO.
 Made by: I. I. Checked by: R.P. F. WES
 Date: 8-25-66 Shop: 8-25-66
 ORDER NO. 32647 DRAWING NO. 134
 FORM 10-551

NO.	REVISION	Made by	Date



REQ'D-I- GIRDER THUS G135



GENERAL NOTE SEE DWG 100

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

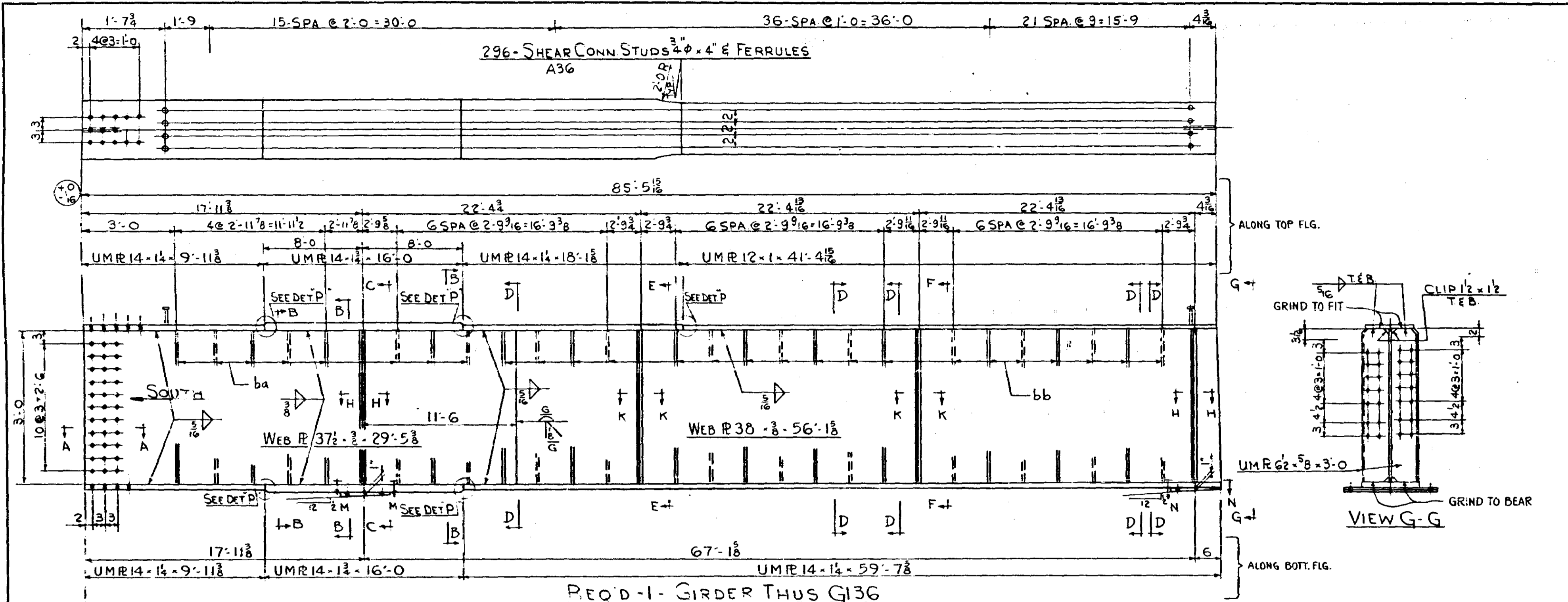
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

GIRDER-DETAILS

Structure: M.H.D. NO 9340
 Location: MPLS MINN
 Contractor: INDUSTRIAL CONSTR. CO.
 Made by: I I
 Checked by: R.P. WES
 Date: 8-25-66
 Order No. 32647
 Drawing No. 135

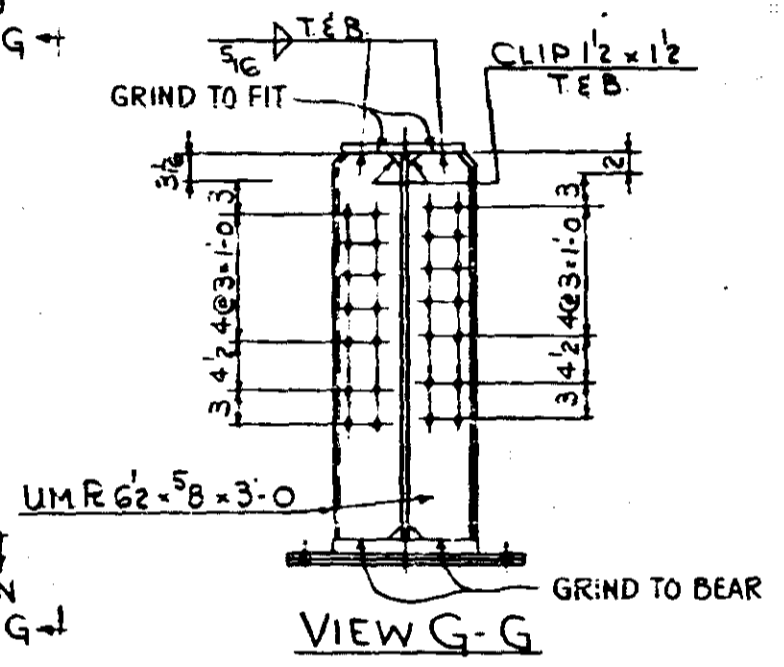
NO.	REVISION	Made by	Date

FORM 12-58H

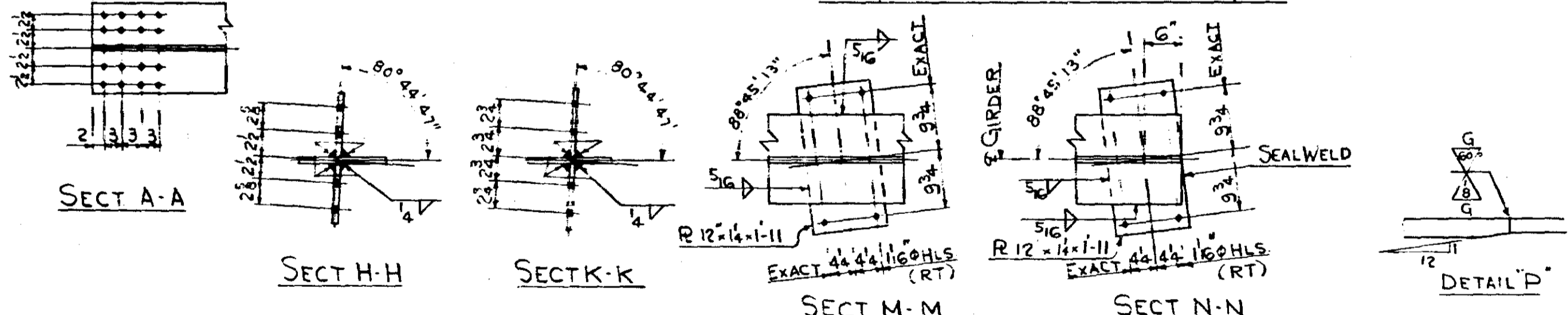


ALONG TOP FLG.

ALONG BOT. FLG.



VIEW G-G



SECT A-A

SECT H-H

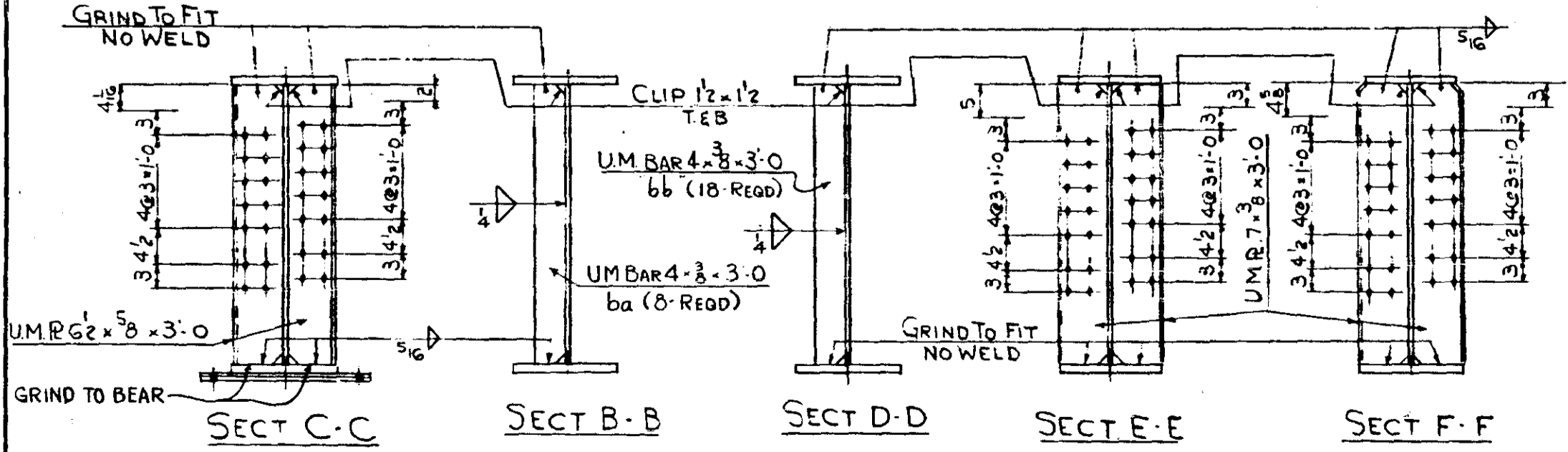
SECT K-K

SECT M-M

SECT N-N

DETAIL P

GENERAL NOTE SEE DWG # 100



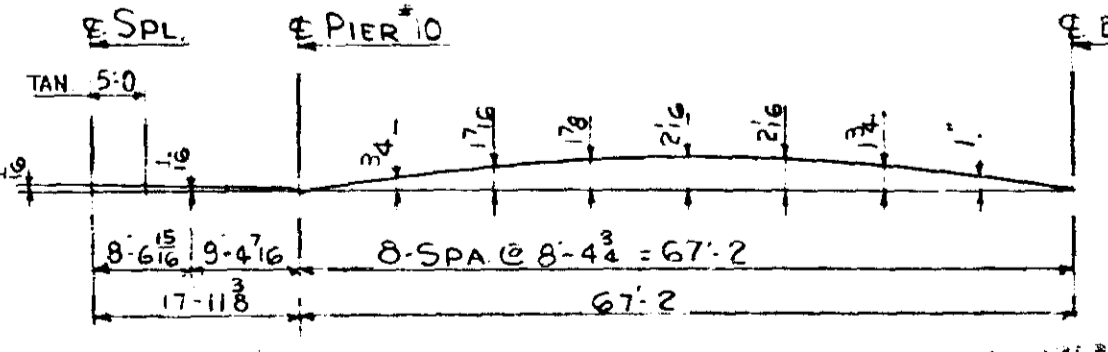
SECT C-C

SECT B-B

SECT D-D

SECT E-E

SECT F-F



CAMBER DIAGRAM

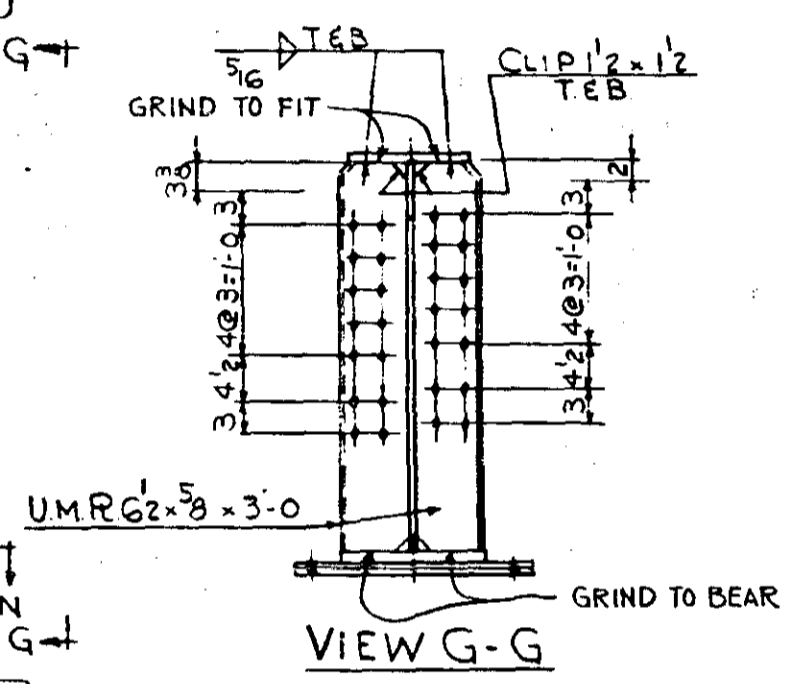
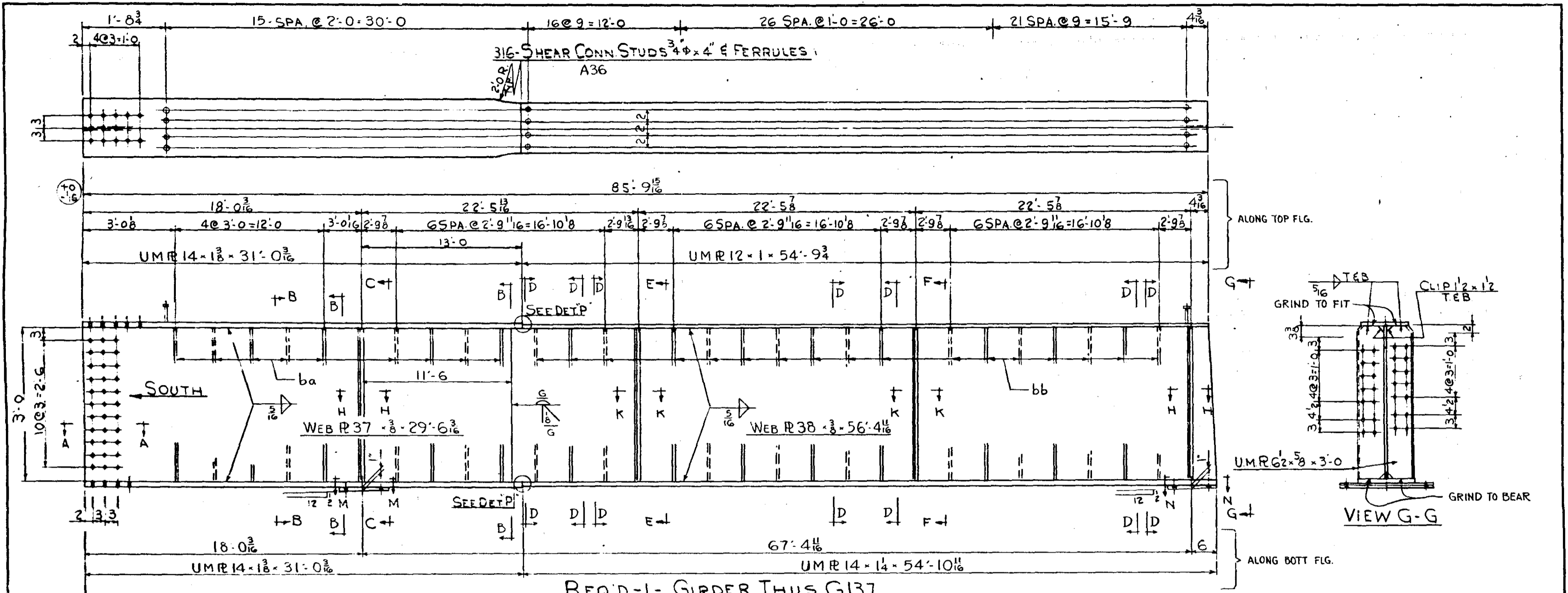
NO.	REVISION	Made by	Date

MINN PROJ No. I-G 35W-3(58)112
 S.P. No. 2783-9340B (T.H. 35W-394)

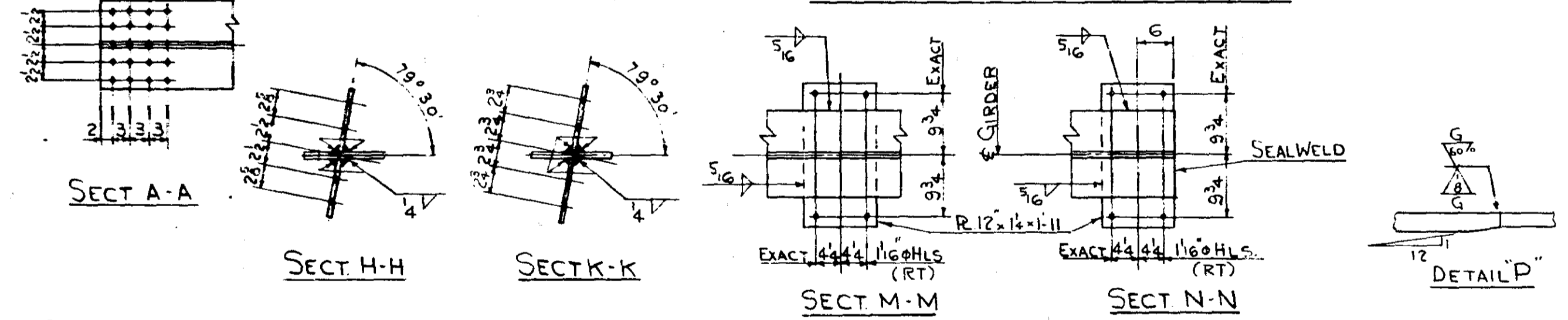
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

GIRDER-DETAILS

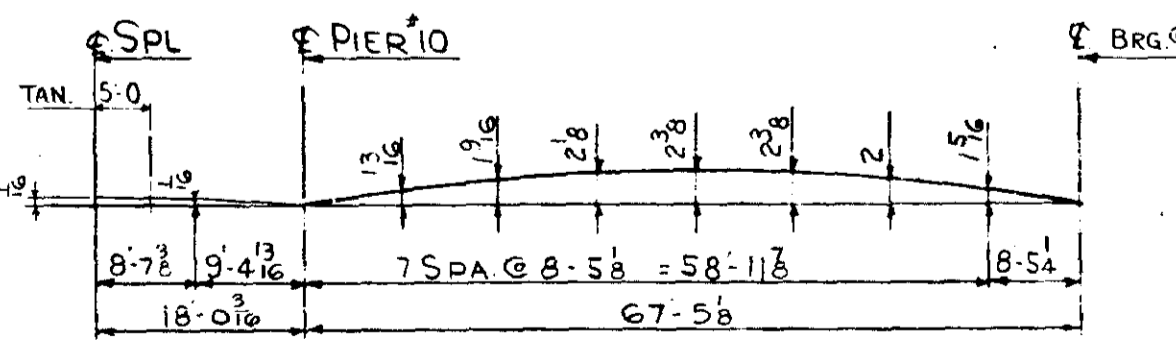
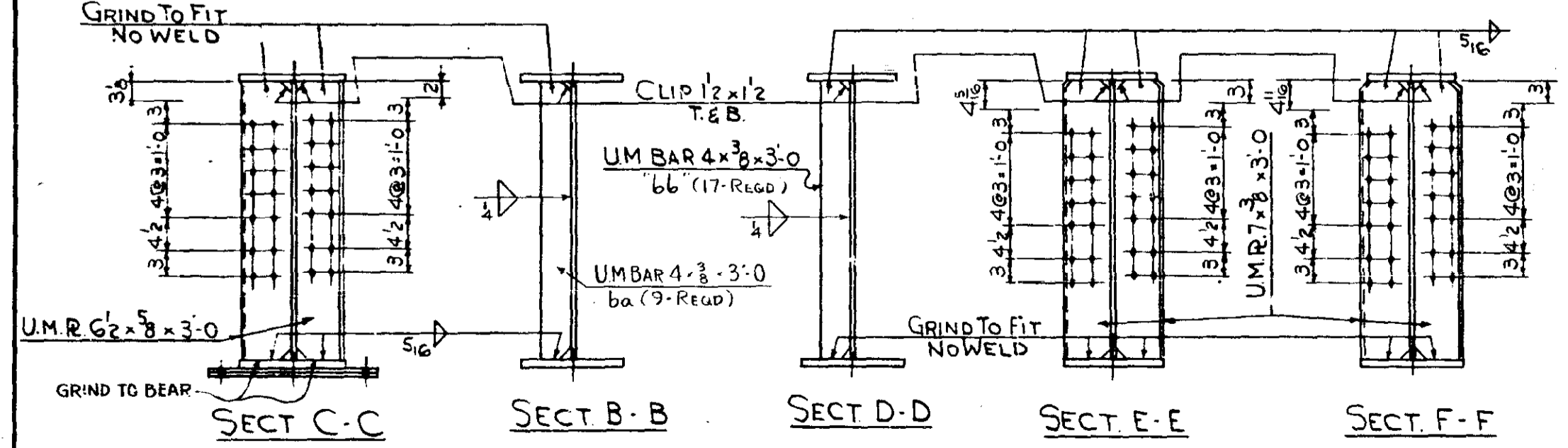
Structure: M.H.D. NO. 9340
 Location: MPLS. MINN.
 Contractor: INDUSTRIAL CONSTR. CO.
 Made by: I.I. Checked by: R.P. WES
 Date: 8-25-66 Shop: 8-25-66
 ORDER NO. 32647 DRAWING NO. 136



REQ'D-1- GIRDER THUS G137



GENERAL NOTE SEE DWG #100



MINN PROJ NO: IG 35 W-3(58)112
 SP NO 2783-9340B (TH 35W=394)

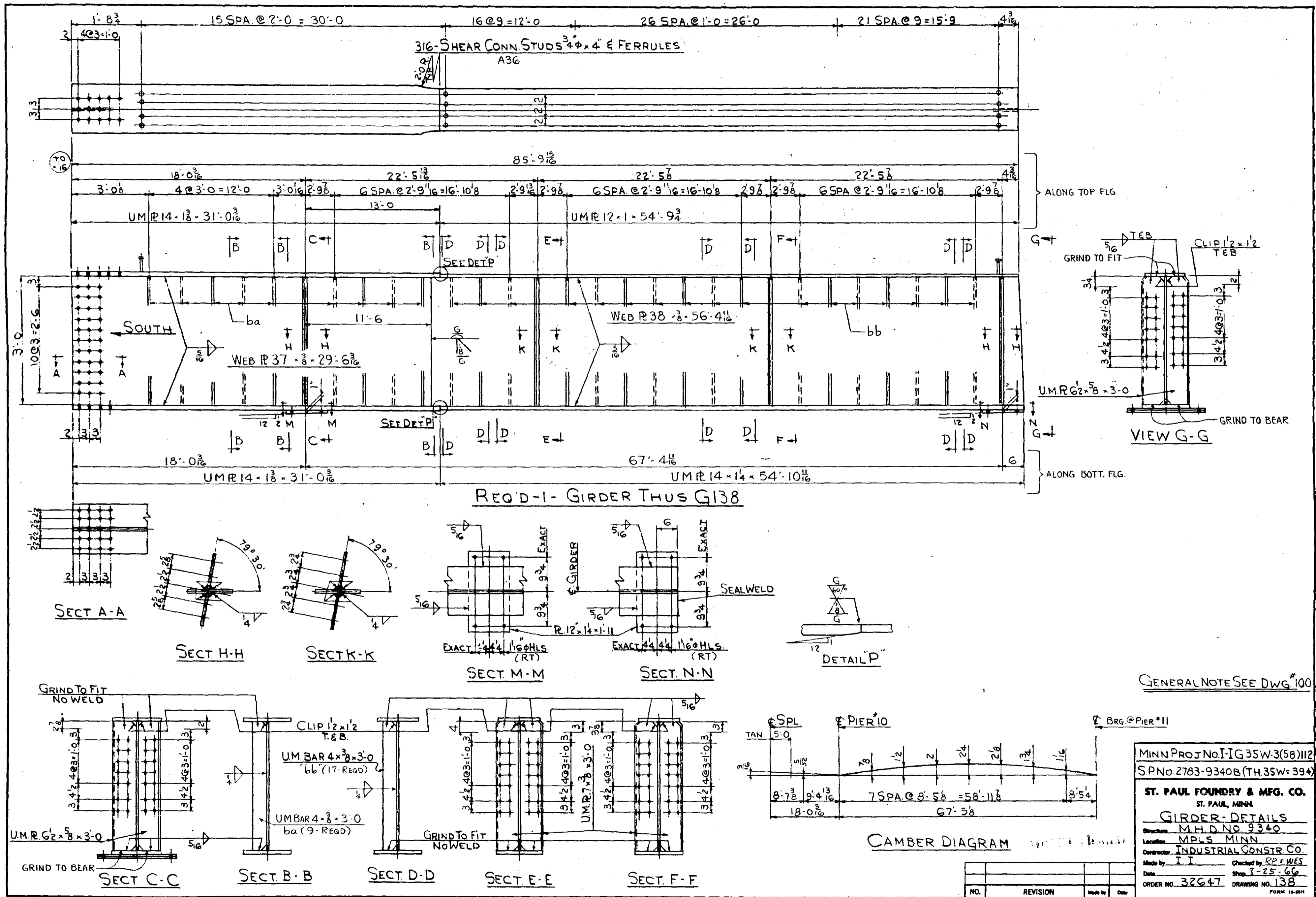
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

GIRDER-DETAILS

Structure: M.H.D. NO 9340
 Location: MPLS MINN
 Contractor: INDUSTRIAL CONSTR. CO.
 Made by: I I Checked by: RP WES
 Date: 8-25-66 Shop: 8-25-66
 ORDER NO. 32647 DRAWING NO. 137

NO.	REVISION	Made by	Date

FORM 12-53H



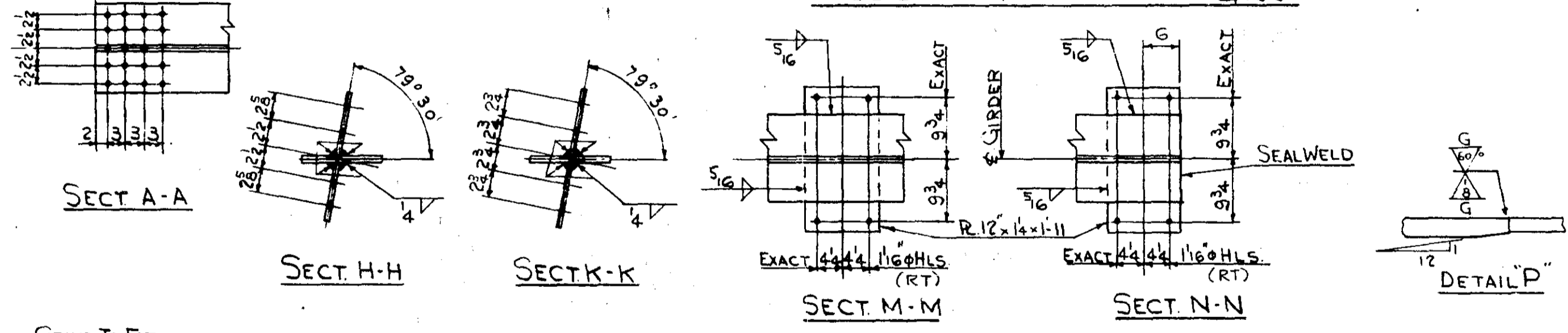
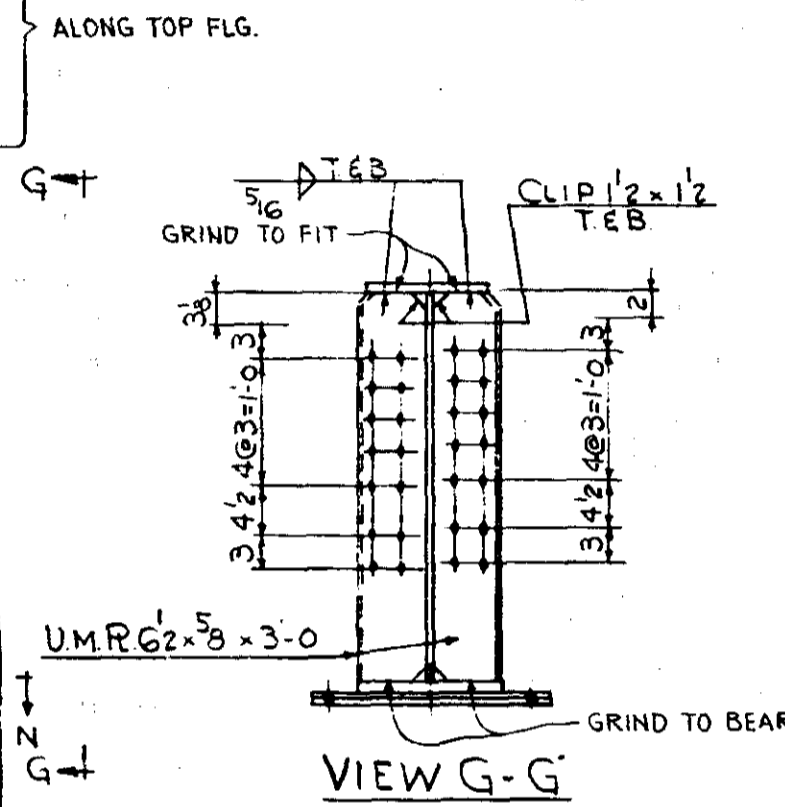
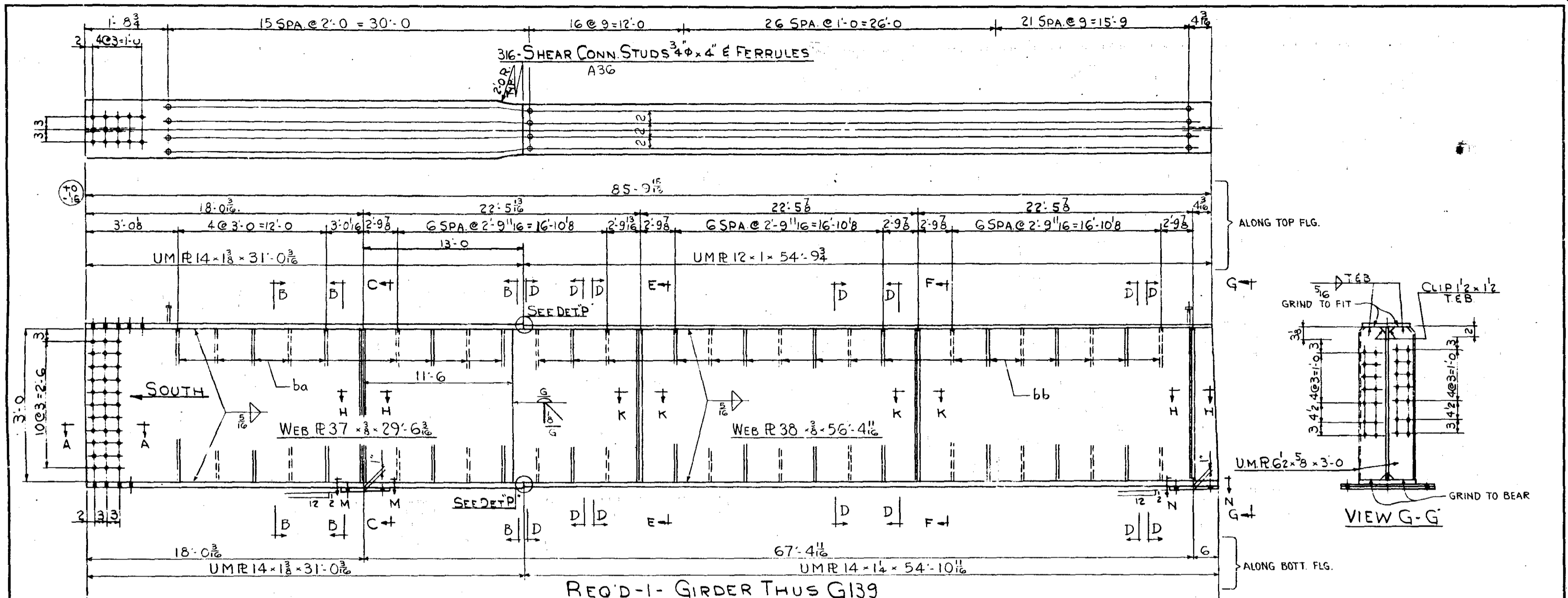
MINN PROJ NO. IG 35W-3(58)112
 SP NO. 2783-9340B (TH 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

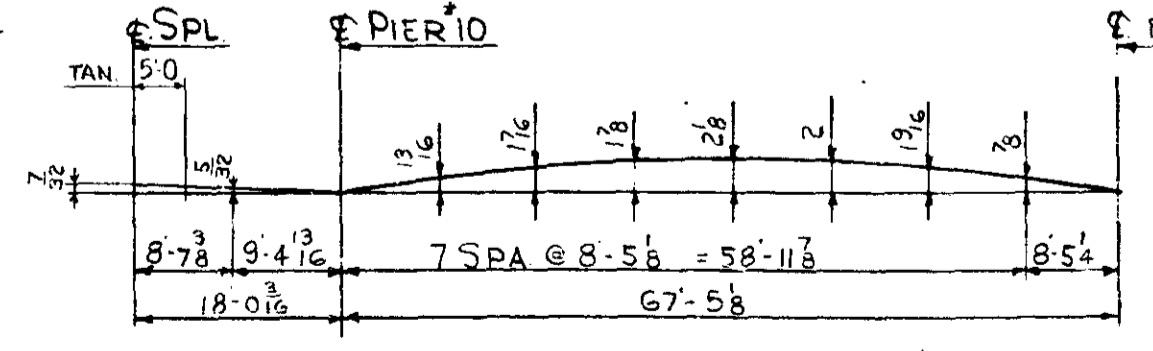
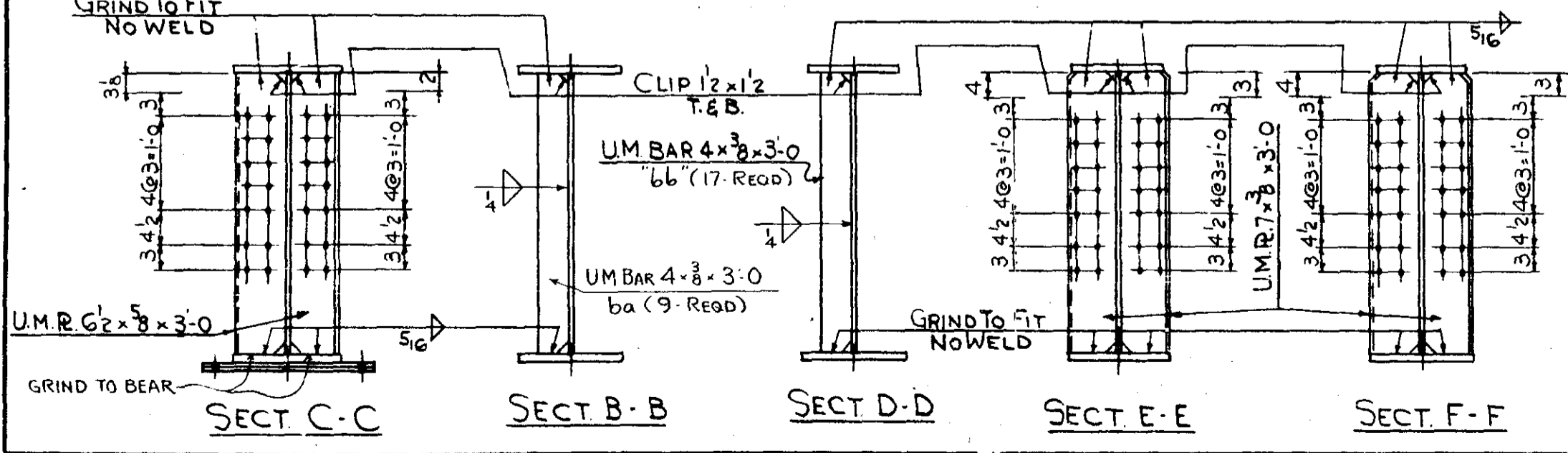
GIRDER-DETAILS

Structure M.H.D. NO 9340
 Location MPLS. MINN.
 Contractor INDUSTRIAL CONSTR. CO.
 Made by I.I. Checked by R.P.F.W.S.
 Date 8-25-66 Shop 8-25-66
 ORDER NO. 32647 DRAWING NO. 138
 FORM 18-5H

NO.	REVISION	Made by	Date



GENERAL NOTE SEE DWG #100



MINN PROJ NO. IIG 35W-3(58)112
 SP NO. 2783-9340B (TH 35W-394)

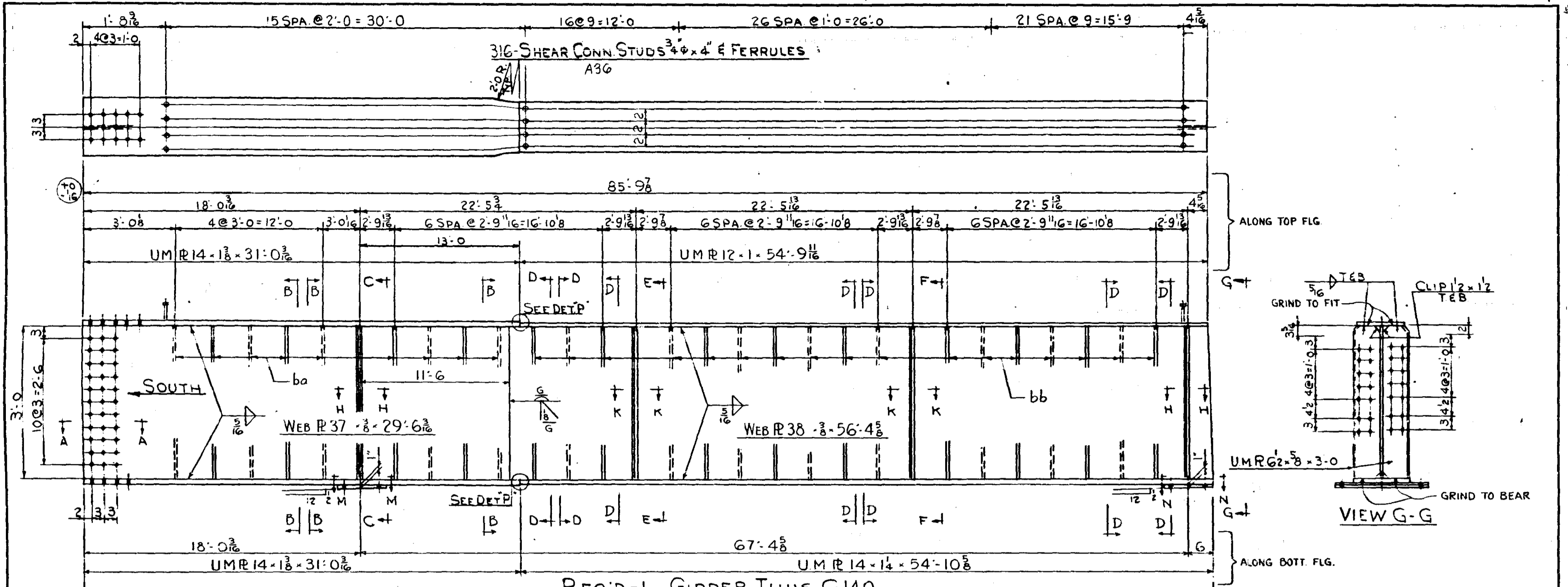
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

GIRDER-DETAILS

Structure: M.H.D. NO. 9340
 Location: MPLS. MINN.
 Contractor: INDUSTRIAL CONSTR. CO.
 Made by: I I Checked by: R.P. F. WIES
 Date: 8-25-66 Shop: 8-25-66
 ORDER NO. 32647 DRAWING NO. 139

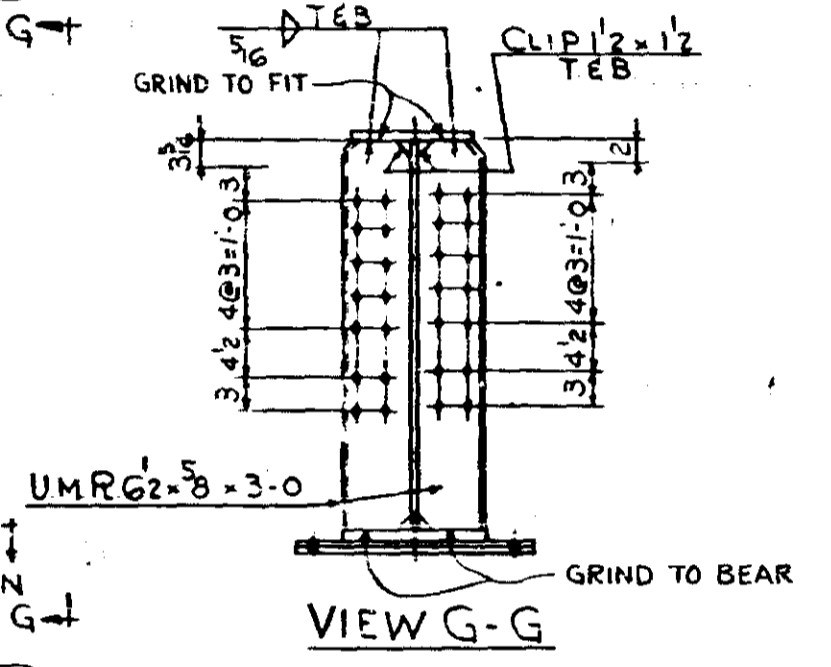
NO.	REVISION	Made by	Date

FORM 12-531

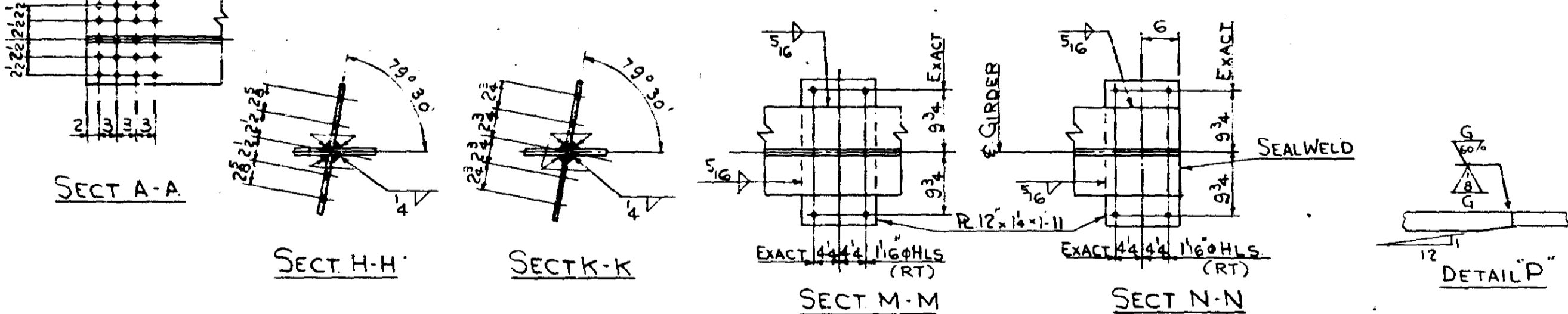


ALONG TOP FLG

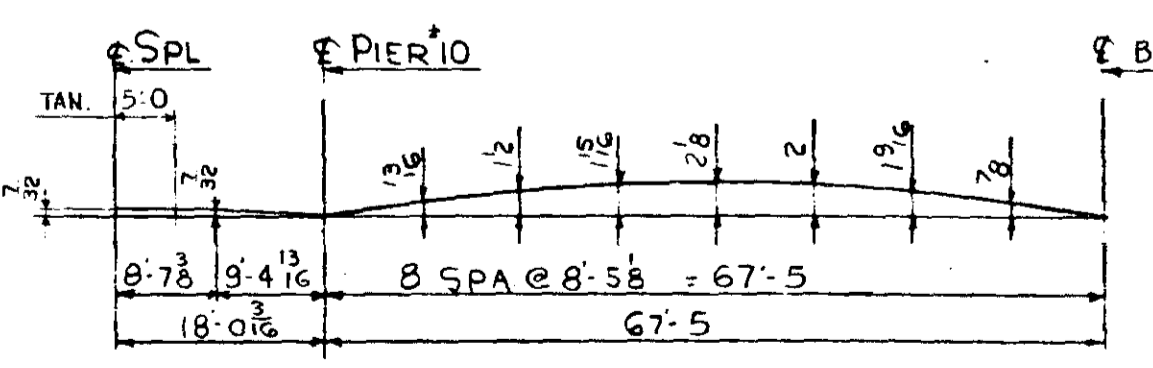
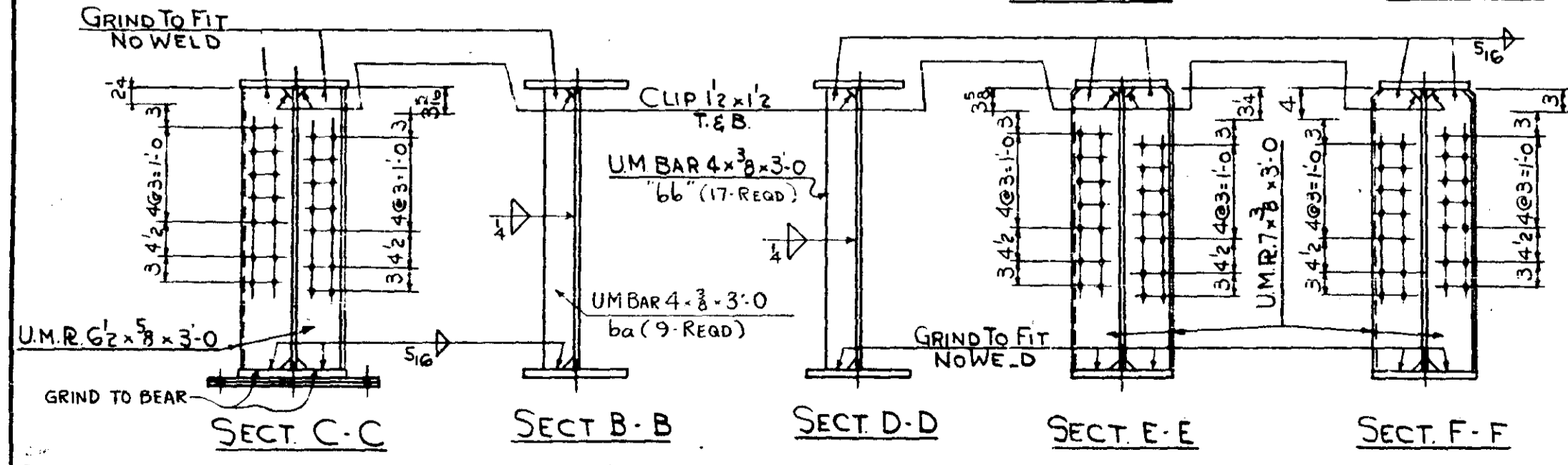
ALONG BOTTL FLG



REQ'D-1- GIRDER THUS G140



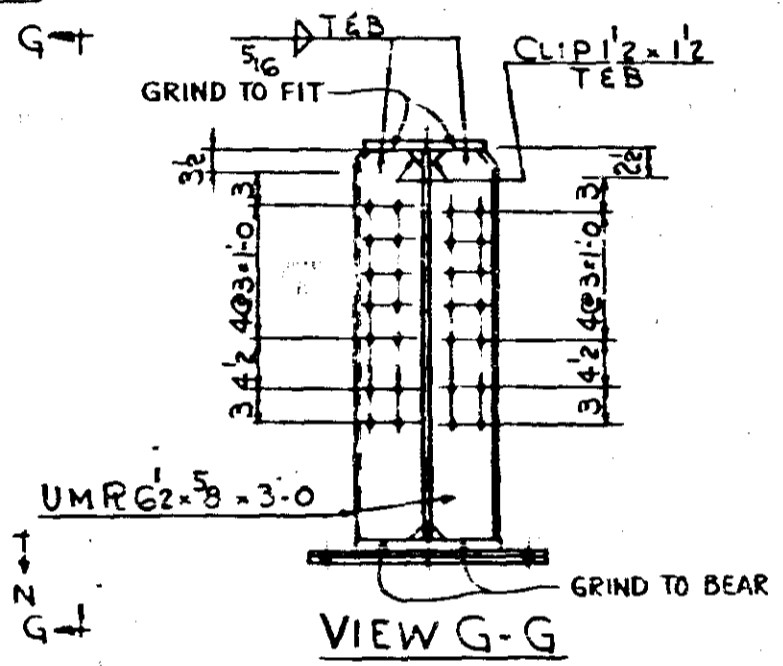
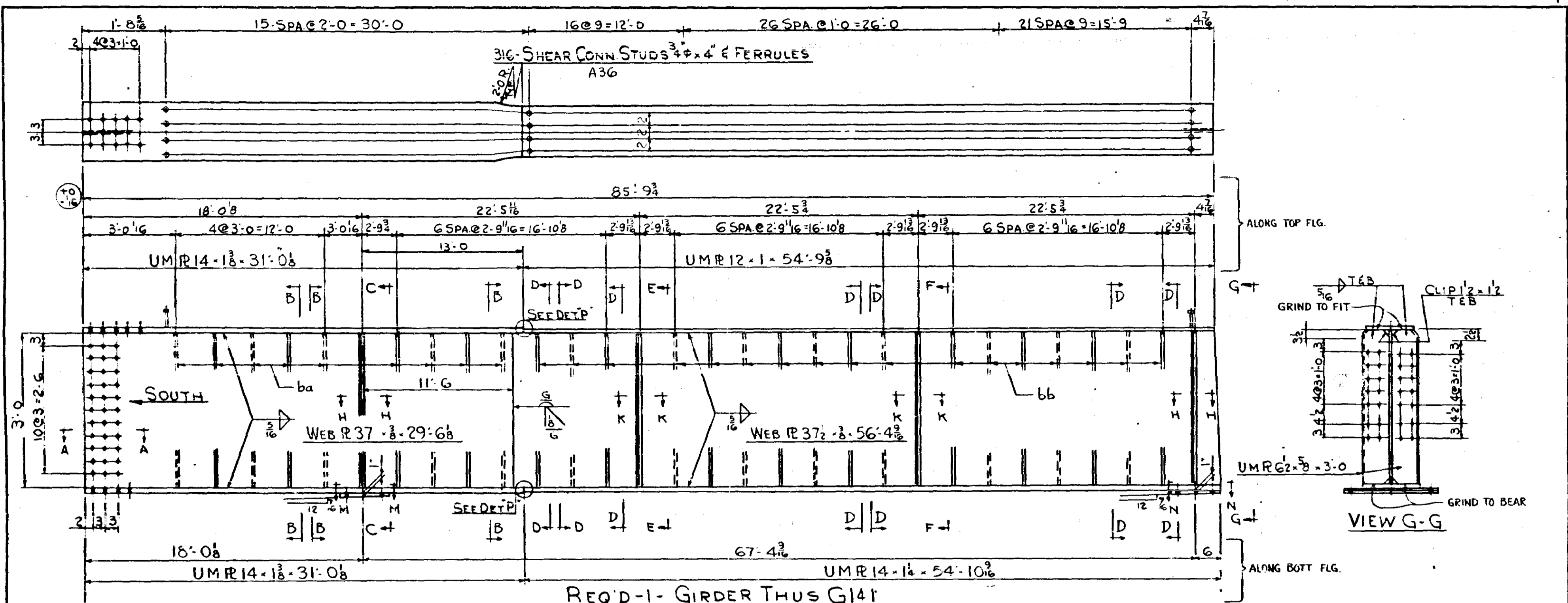
GENERAL NOTE SEE DWG #100



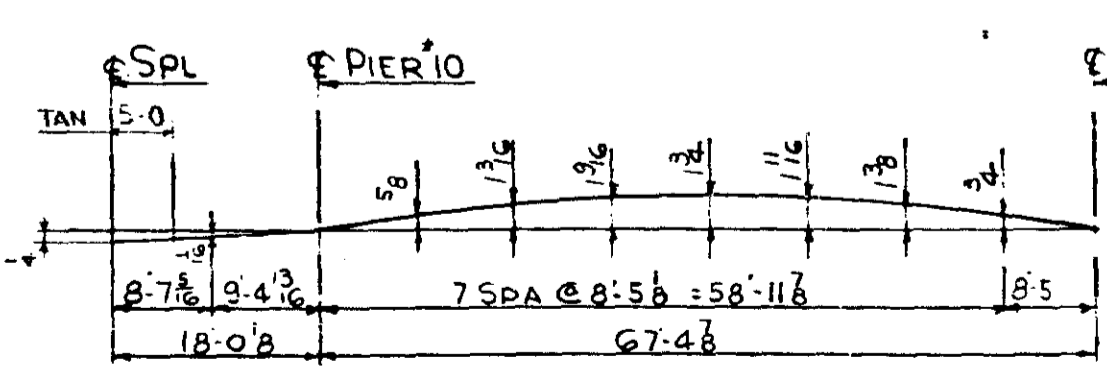
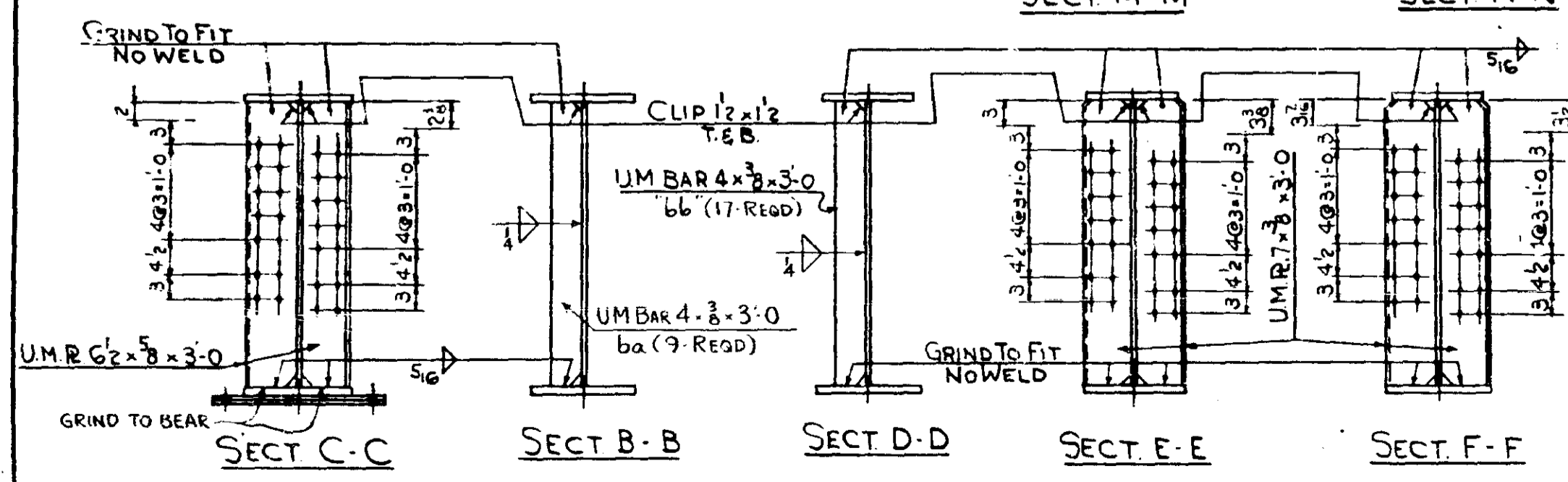
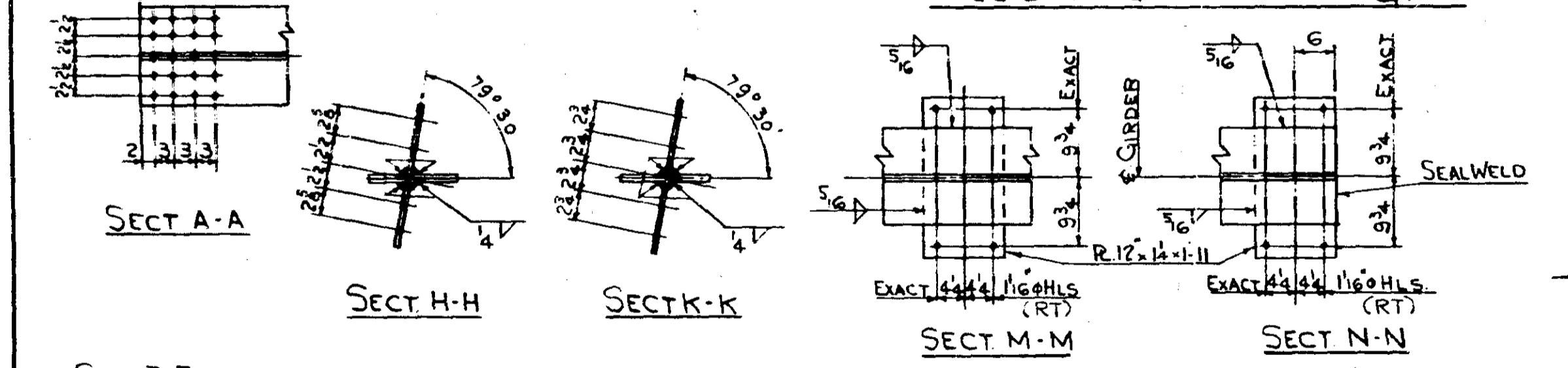
CAMBER DIAGRAM

MINN PROJ NO. I-G 35W-3(58)112
 SP NO 2783-9340B (TH 35W-394)
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.
GIRDER-DETAILS
 Structure: M.H.D. NO 9340
 Location: MPLS MINN
 Contractor: INDUSTRIAL CONSTR. CO.
 Made by: I.I. Checked by: R.P. WES
 Date: Shop 8-25-66
 ORDER NO. 32647 DRAWING NO. 140
 FORM 18-58H

NO.	REVISION	Made by	Date



REQ'D-1- GIRDER THUS G141



GENERAL NOTE SEE DWG #100

MINN PROJ NO I-G 35W-3(58)112
 SP NO 2783-9340B (TH 35W-394)

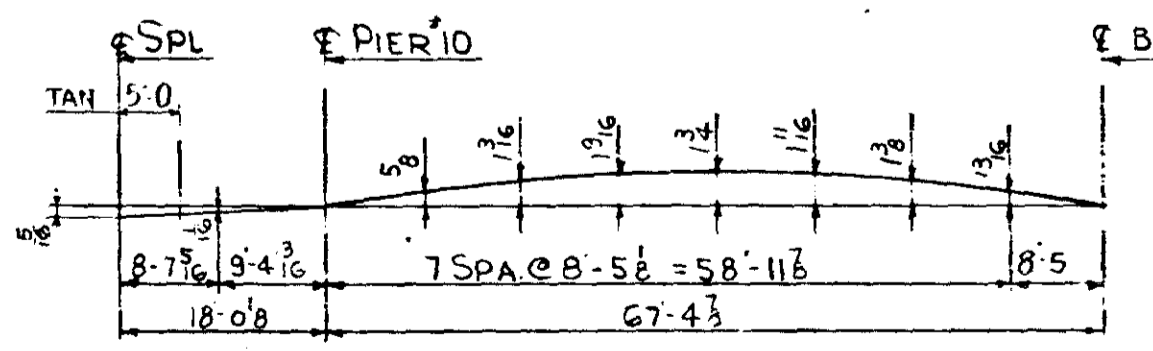
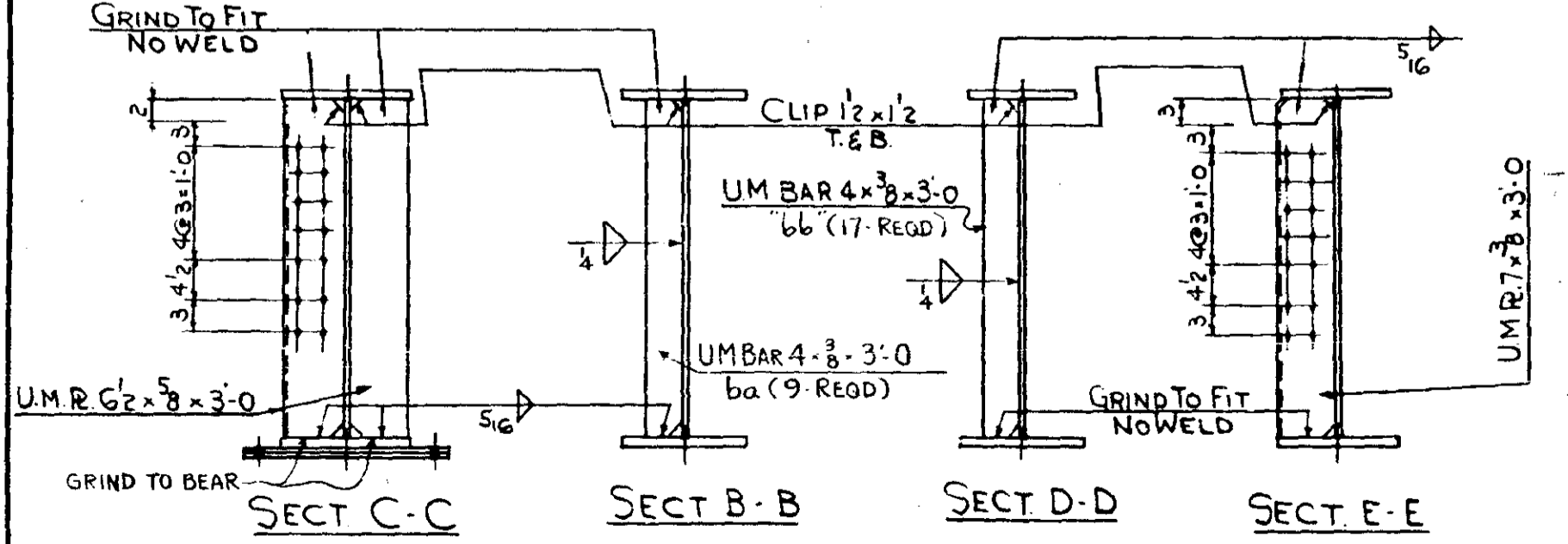
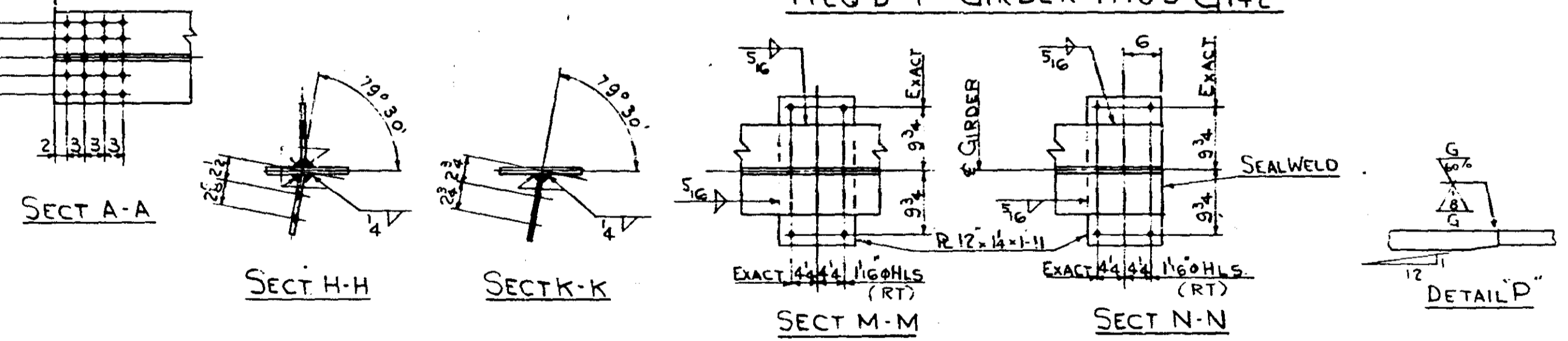
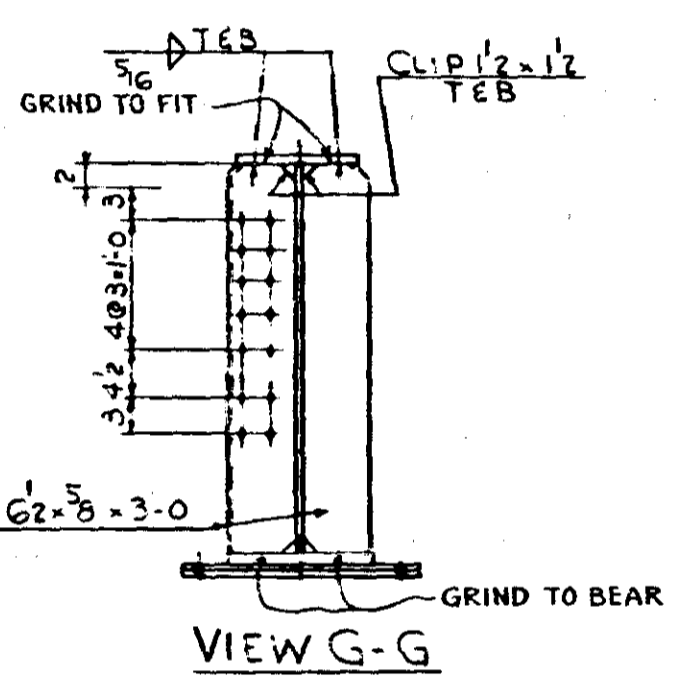
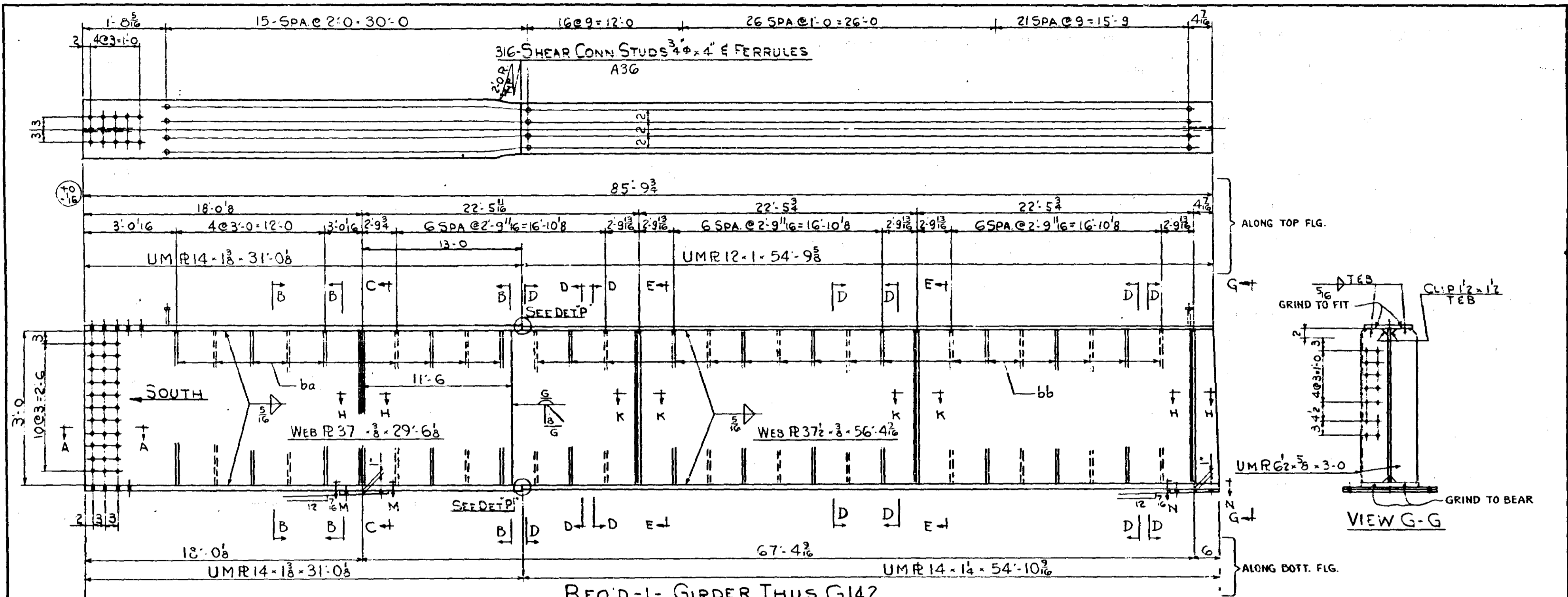
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

GIRDER-DETAILS
 M.H.D. NO 9340

Location: MPLS MINN
 Contractor: INDUSTRIAL CONSTR. CO.
 Made by: I.I. Checked by: RP-WES
 Date: 8-25-66
 ORDER NO. 32647 DRAWING NO. 141

NO.	REVISION	Made by	Date

POWER 11-491



GENERAL NOTE SEE DWG #100

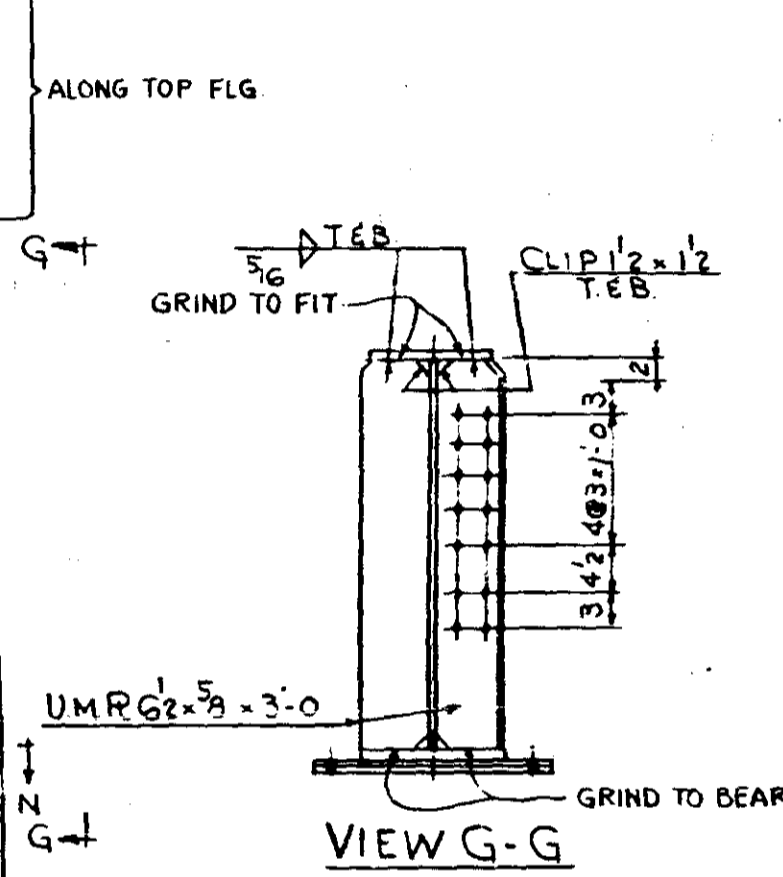
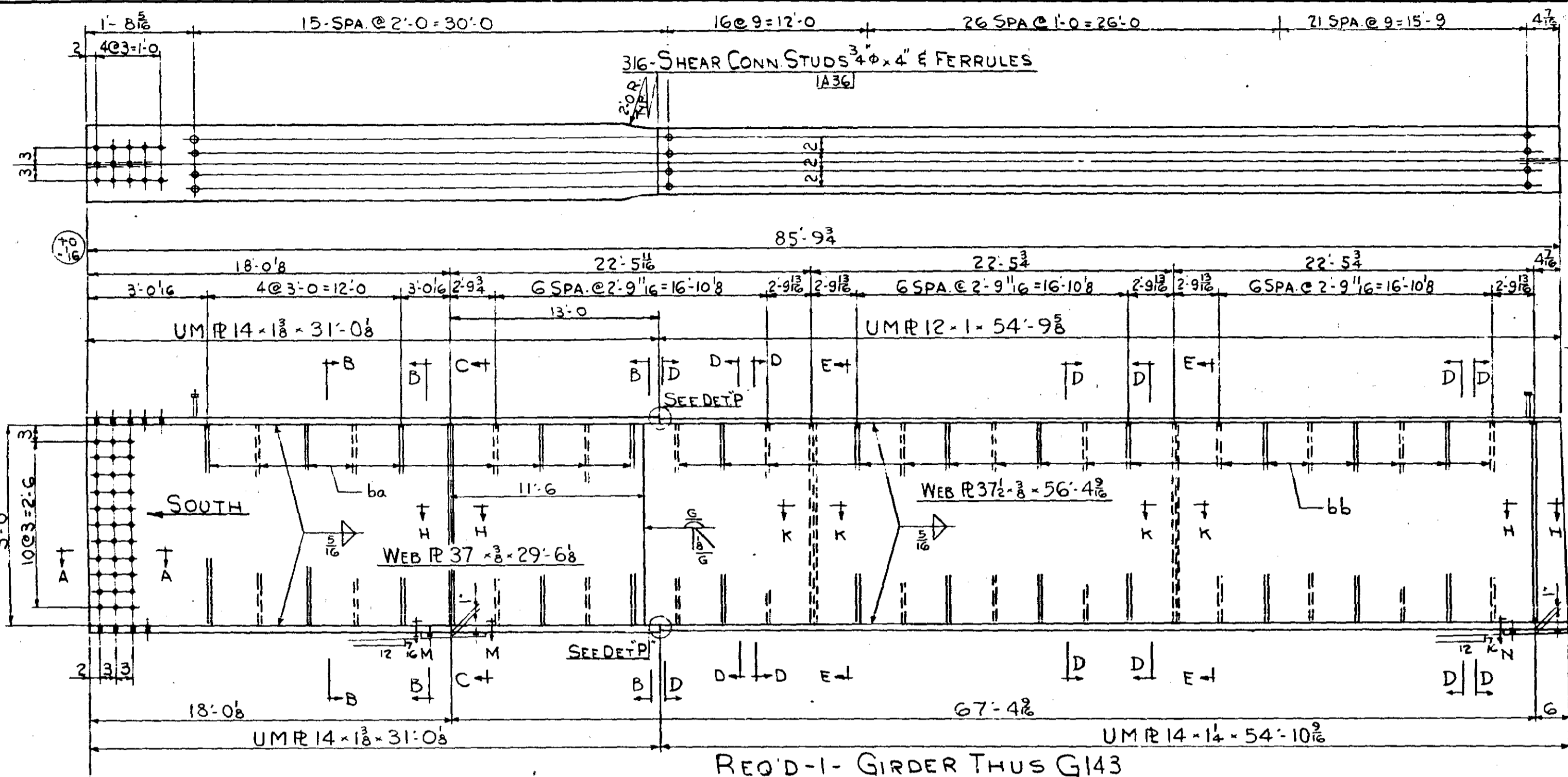
MINN PROJ NO. I-IG 35 W-3 (58) 112
 SP NO 2783-9340B (TH 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

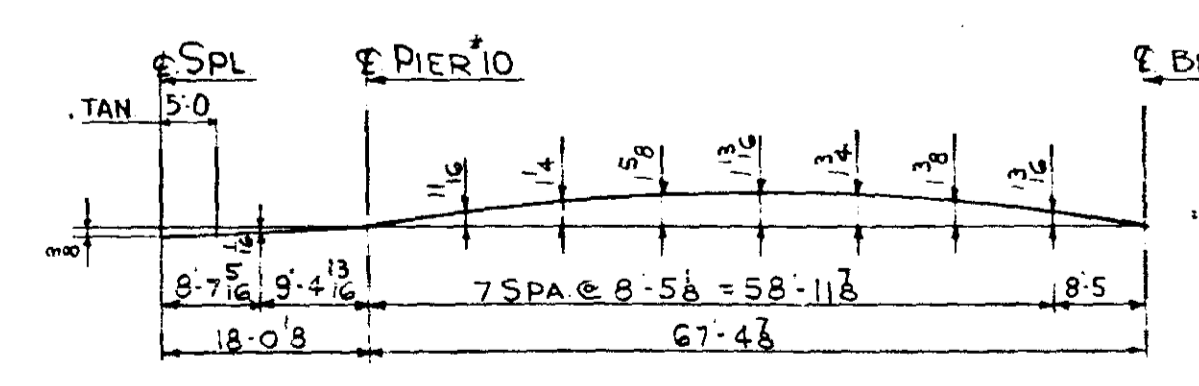
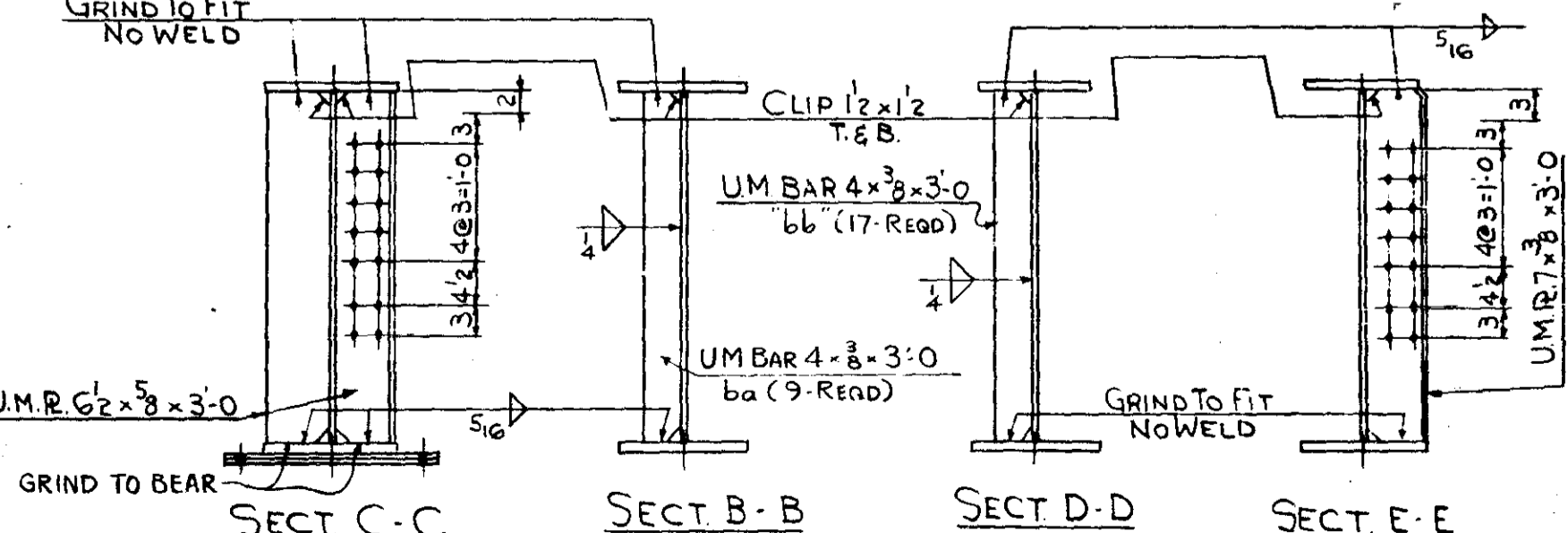
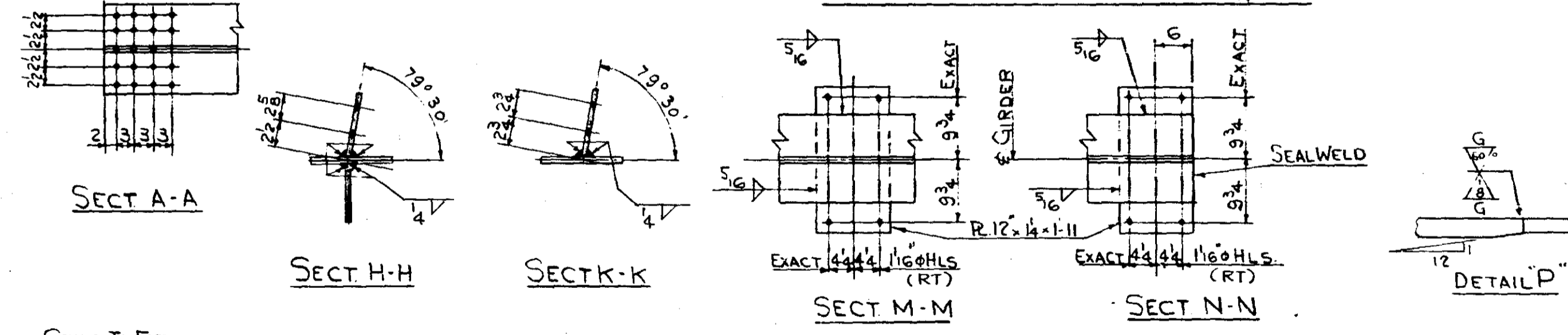
GIRDER-DETAILS

Structure: M.H.D. NO 9340
 Location: MPLS MINN
 Contractor: INDUSTRIAL CONSTR CO.
 Made by: I I Checked by: RP & WES
 Date: Shop: 8-25-66
 ORDER NO. 32647 DRAWING NO. 142

NO.	REVISION	Made by	Date



REQ'D-1- GIRDER THUS G143



GENERAL NOTE SEE DWG #100

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

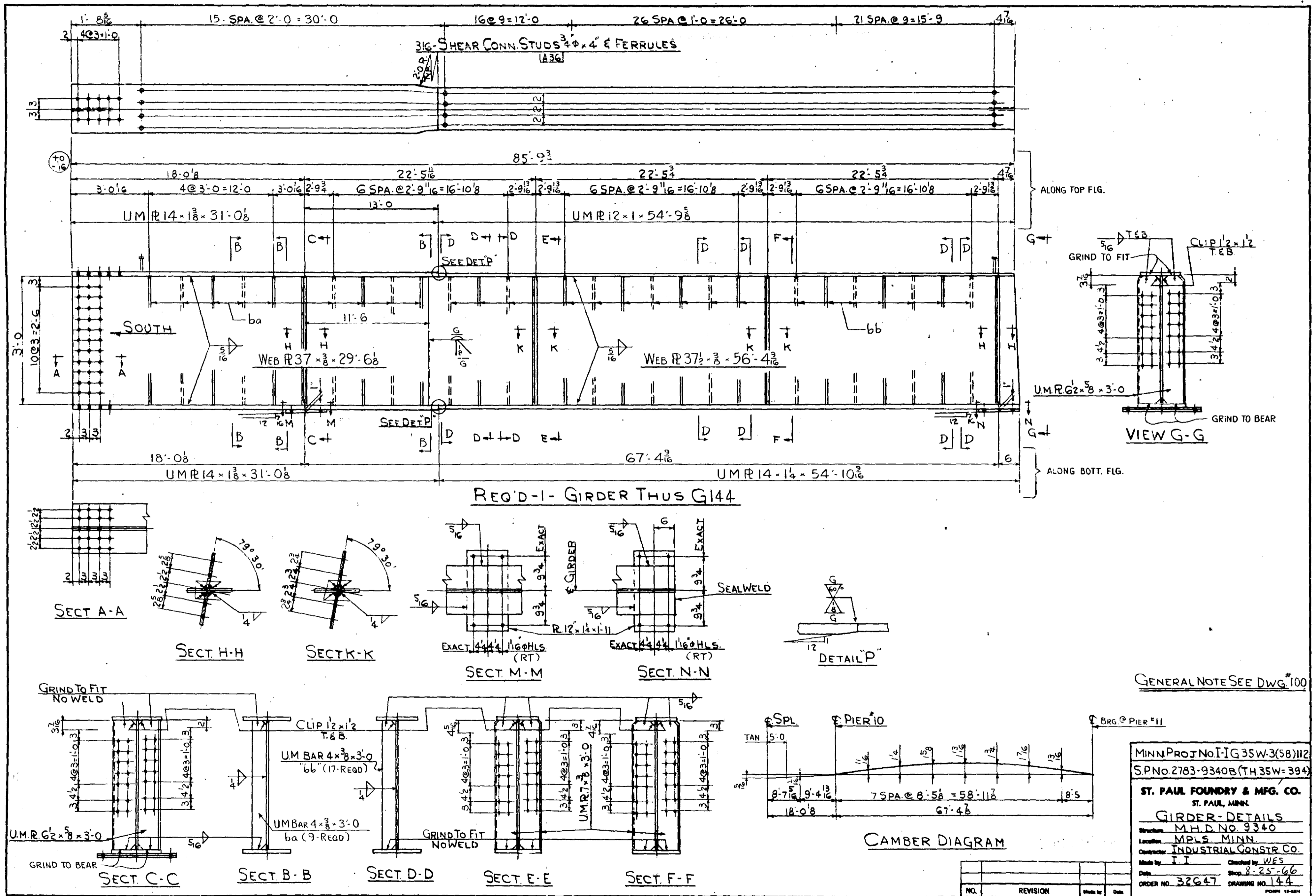
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

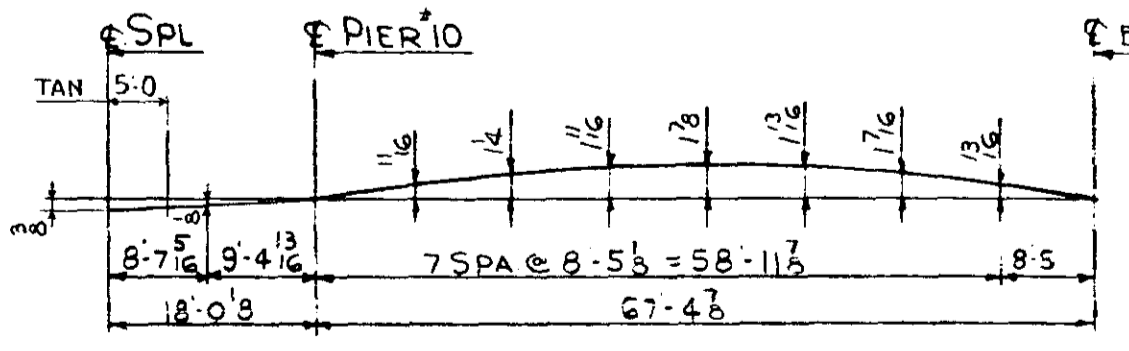
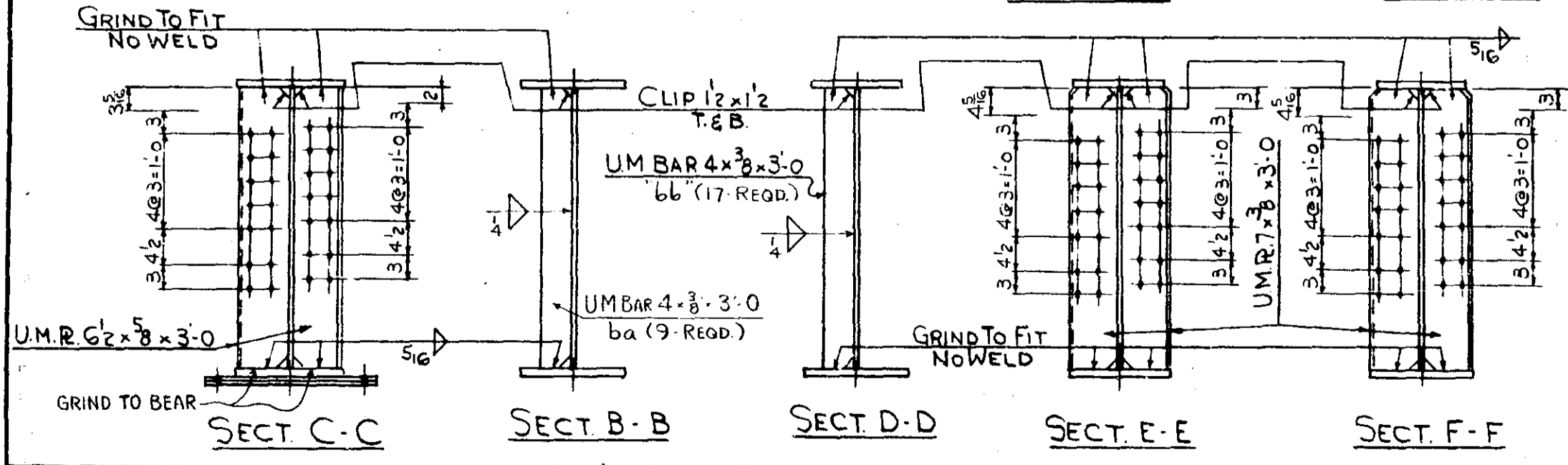
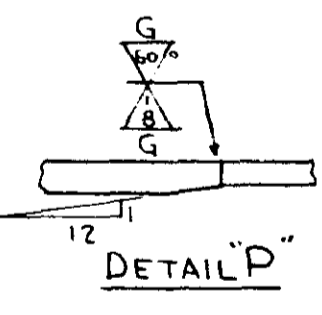
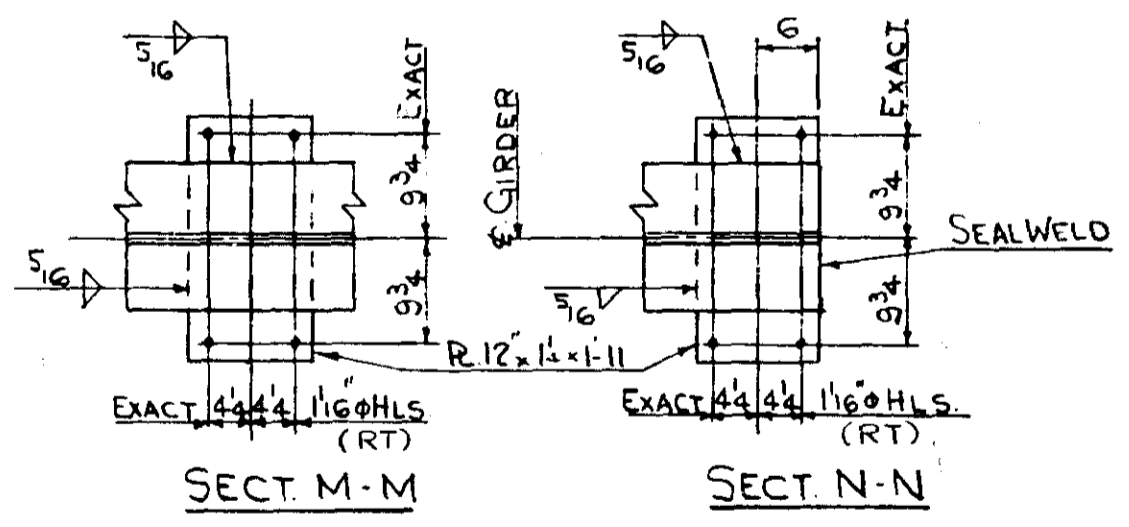
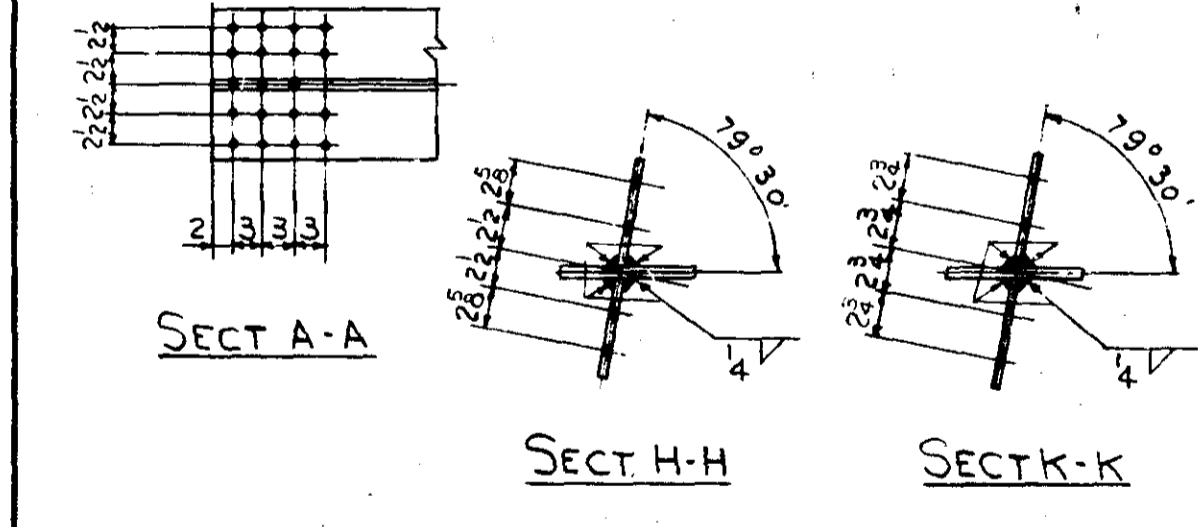
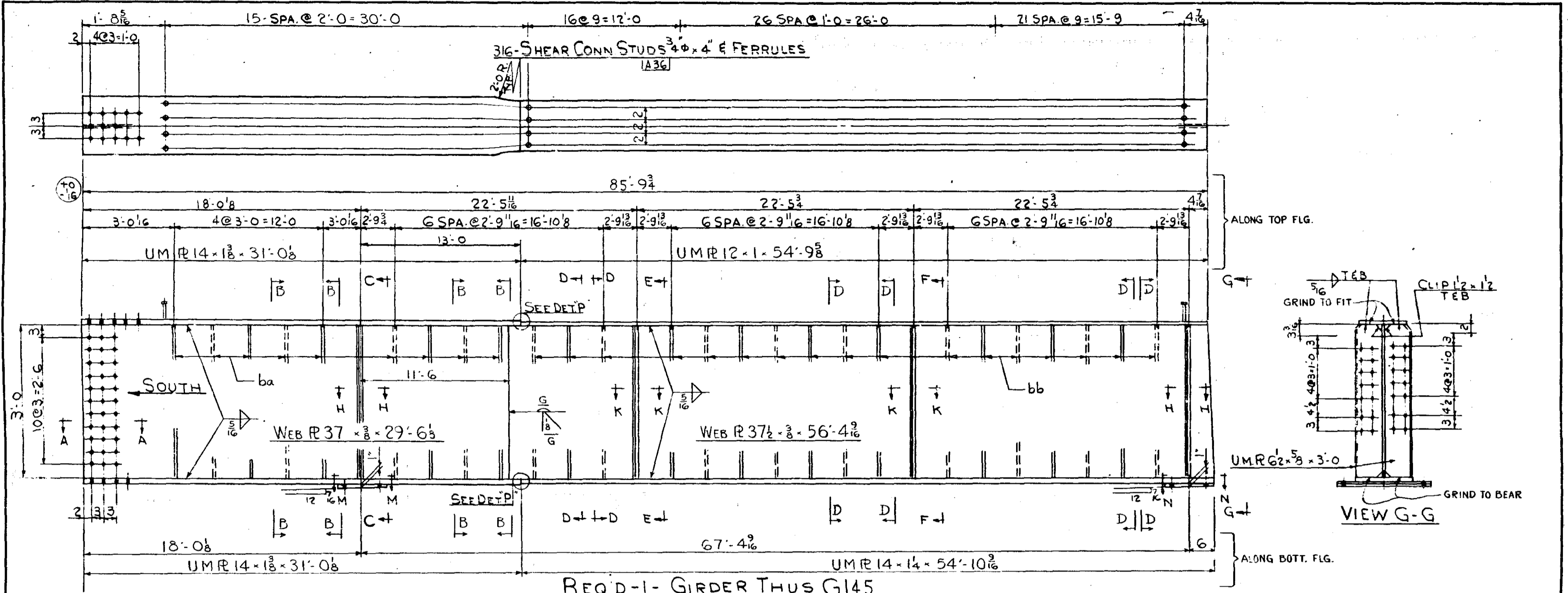
GIRDER-DETAILS

Structure: M.H.D. NO. 9340
 Location: MPLS. MINN.
 Contractor: INDUSTRIAL CONSTR. CO.
 Made by: I.I. Checked by: WES
 Date: 8-25-66 Shop: 8-25-66
 ORDER NO. 32647 DRAWING NO. 143

NO. REVISION Made by Date

FORM 18-58H

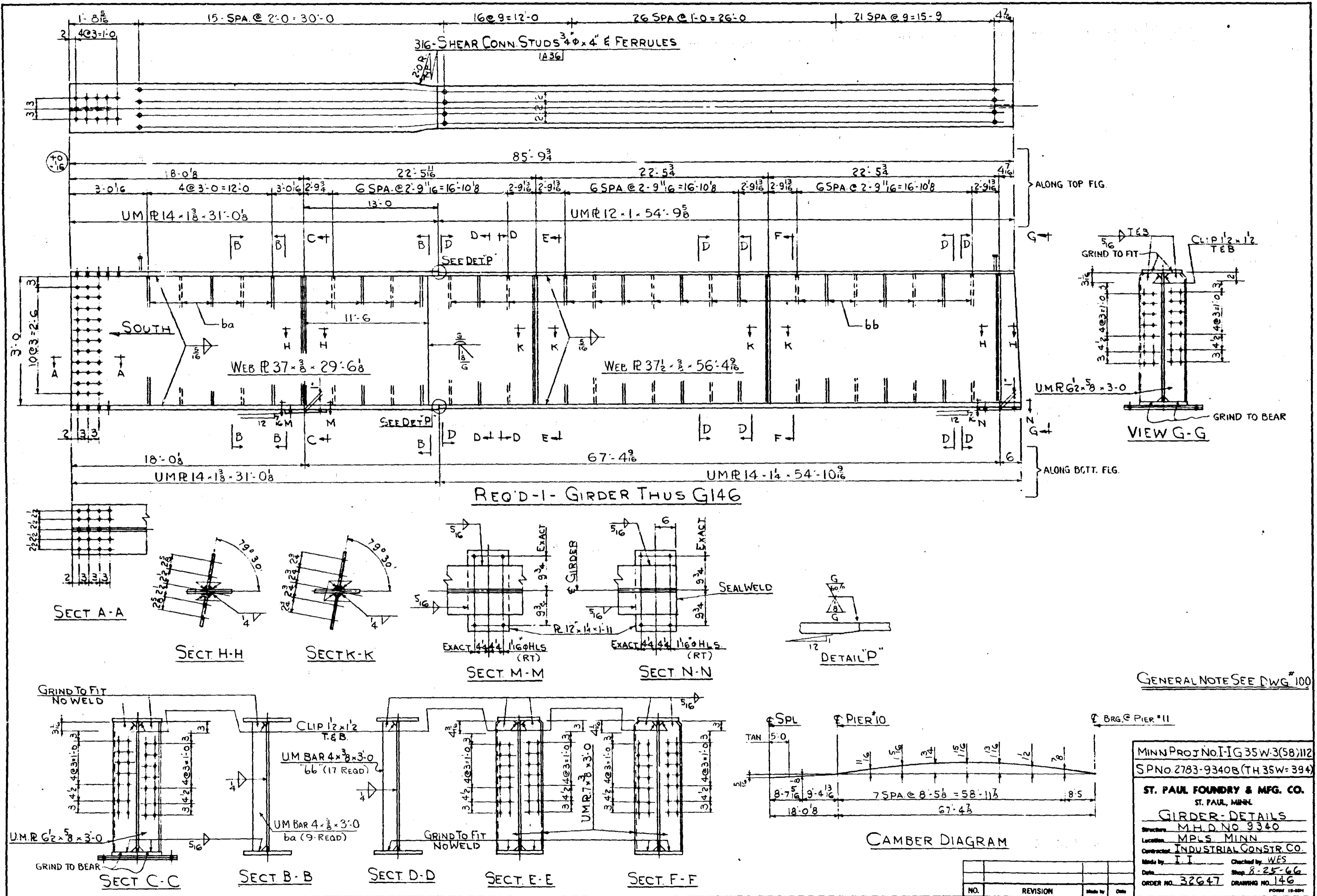




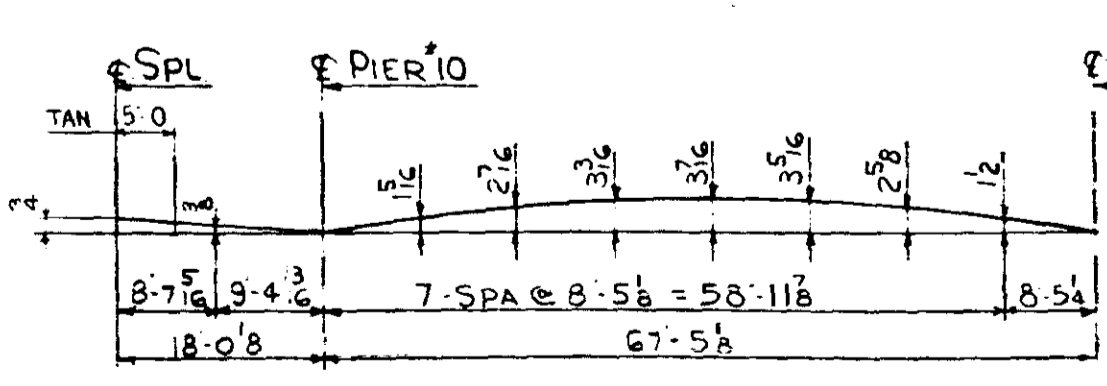
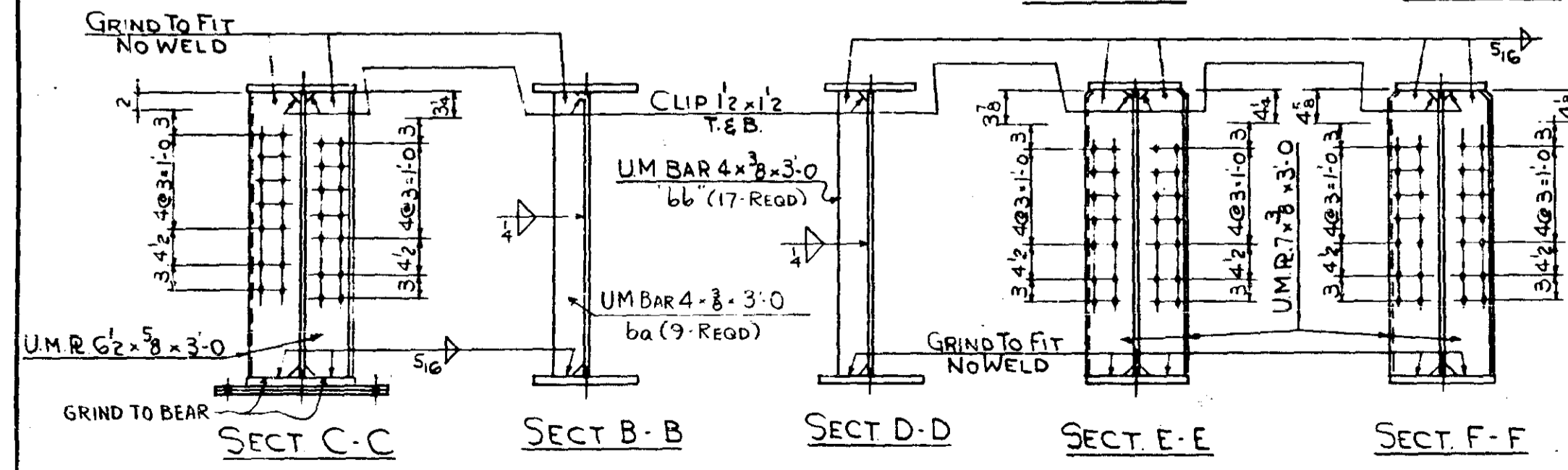
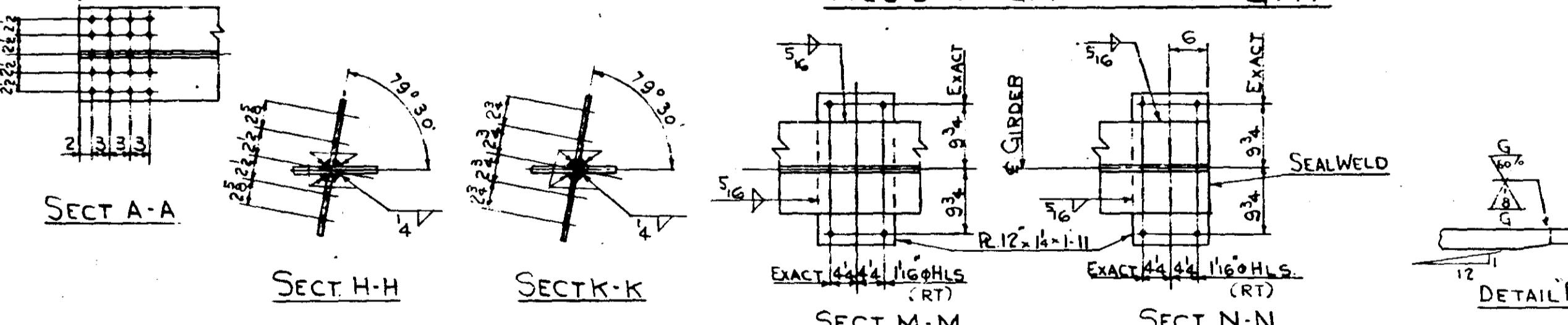
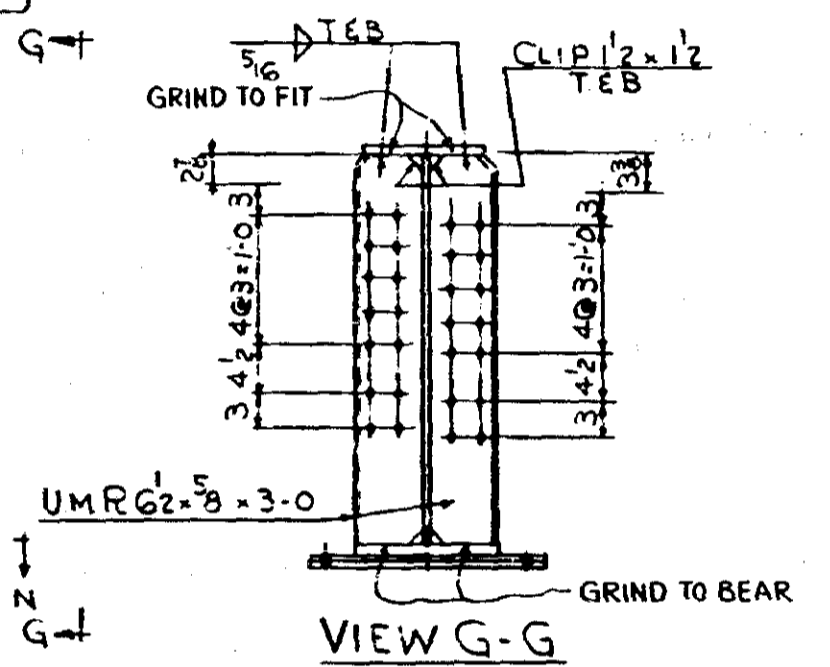
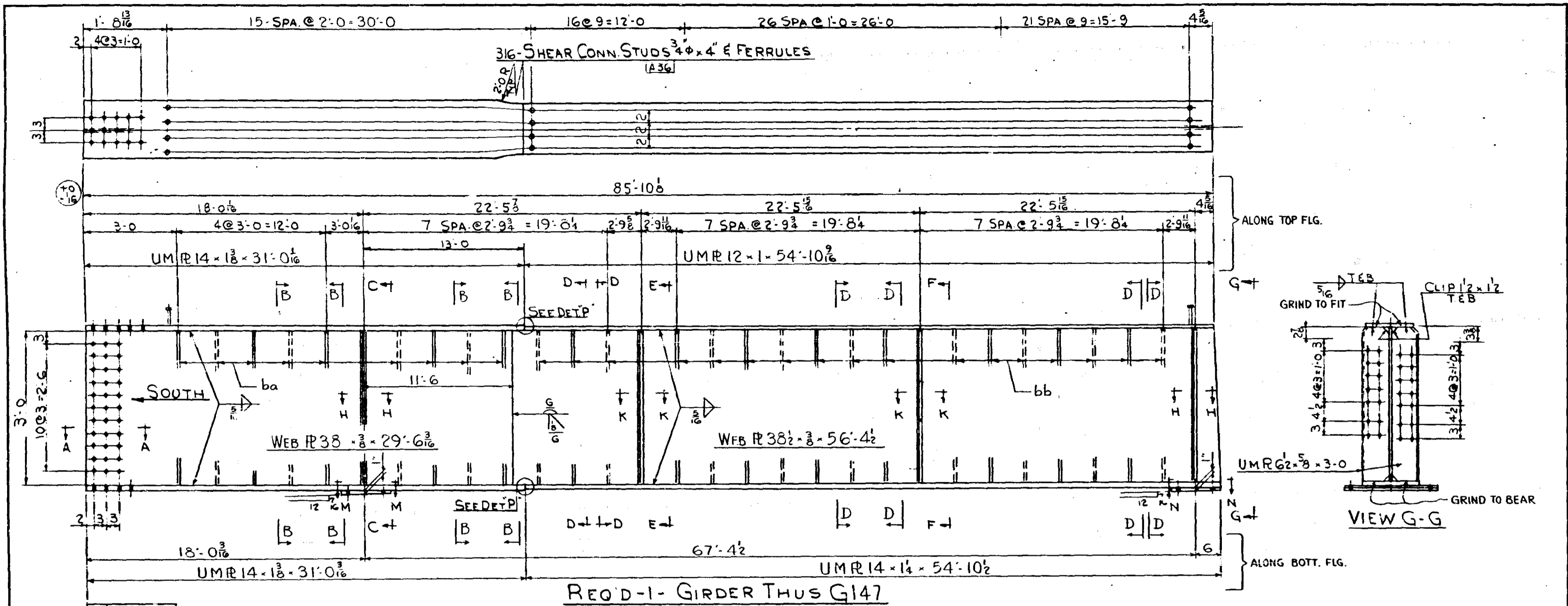
GENERAL NOTE SEE DWG #100

MINN PROJ NO. I-G 35 W-3 (58) 112
 SP No 2783-9340B (TH 35W-394)
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.
GIRDER - DETAILS
 Structure M.H.D. NO 9340
 Location MPLS MINN
 Contractor INDUSTRIAL CONSTR CO.
 Made by I I Checked by WES
 Date 8-25-66 Shop
 ORDER NO. 32647 DRAWING NO. 145
 FORM 15-554

NO.	REVISION	Made by	Date



NO.	REVISION	Made by	Date

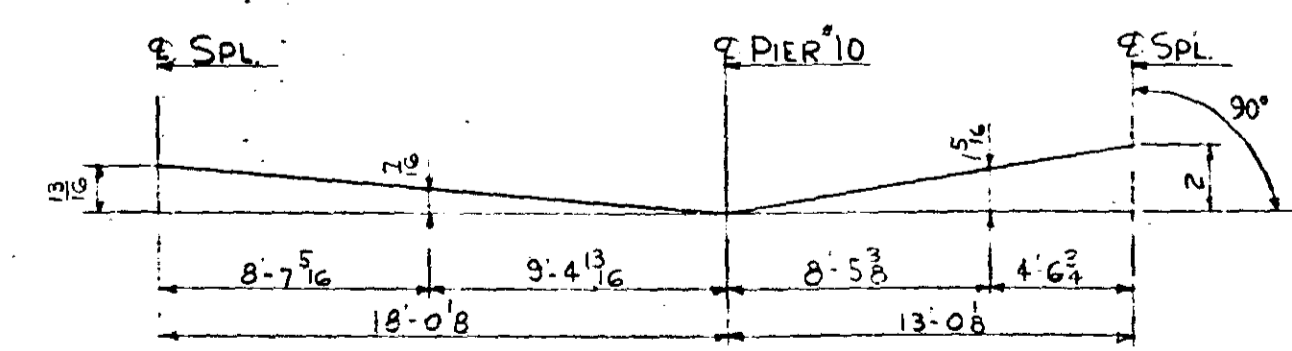
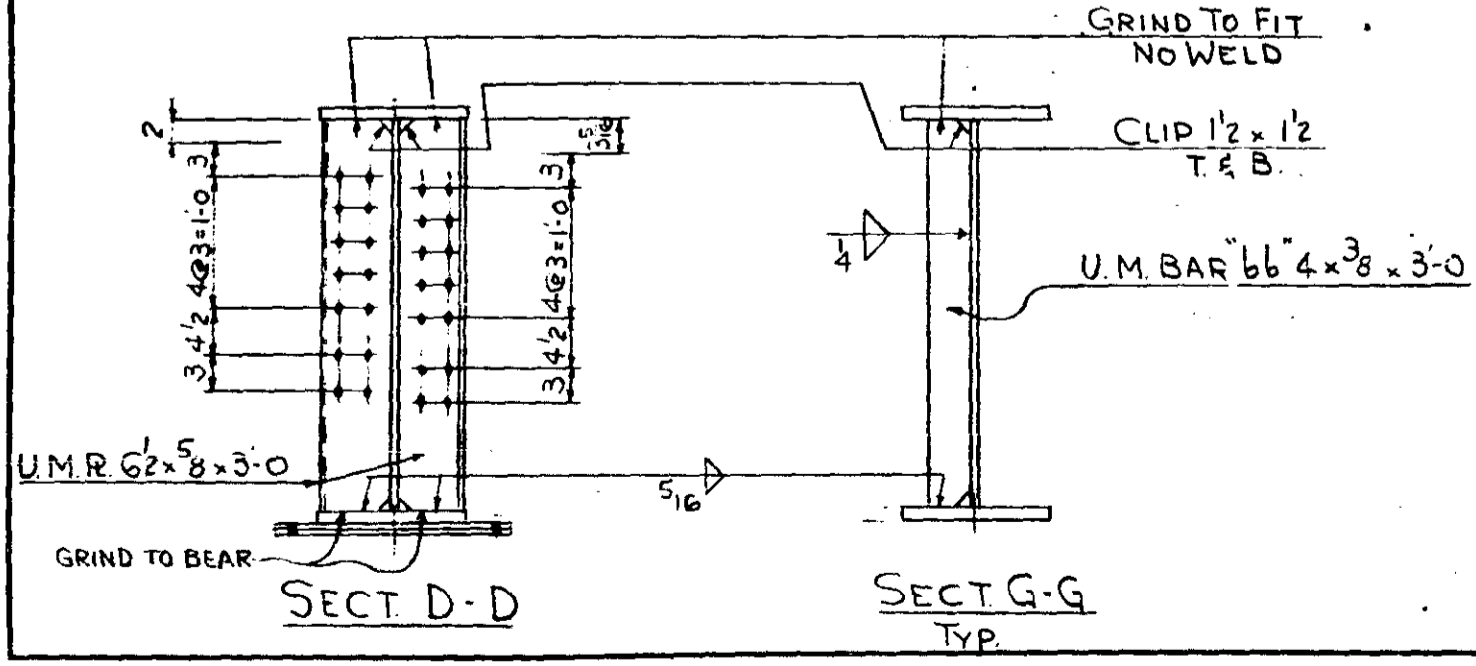
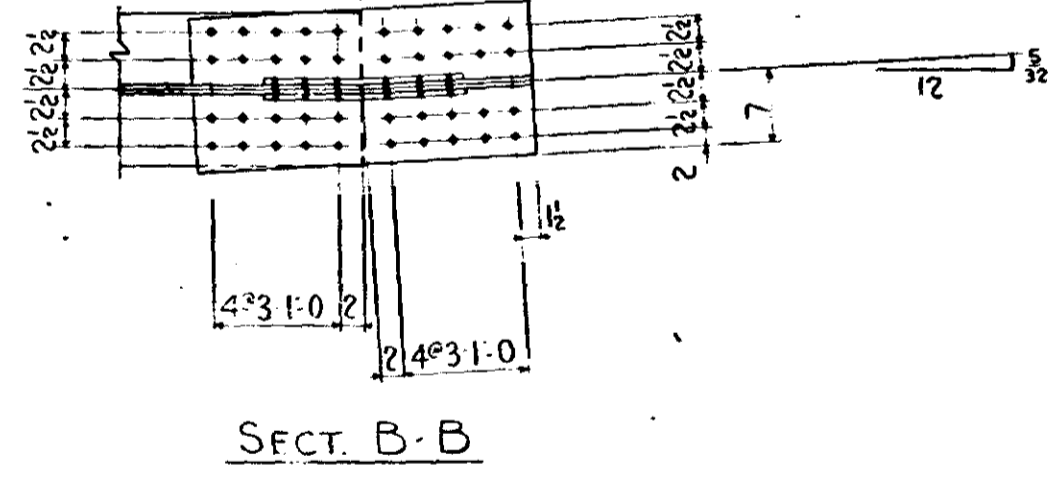
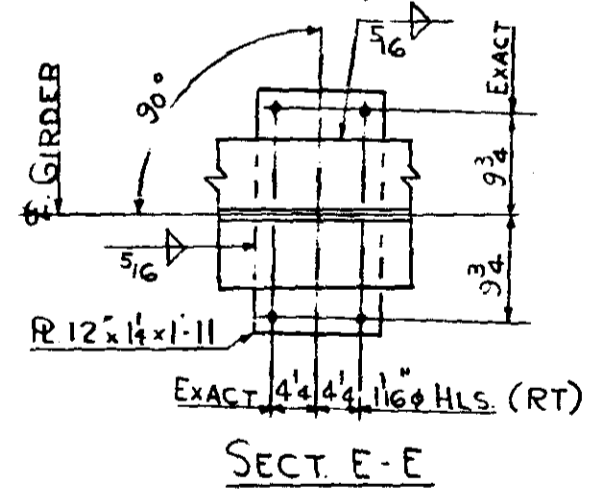
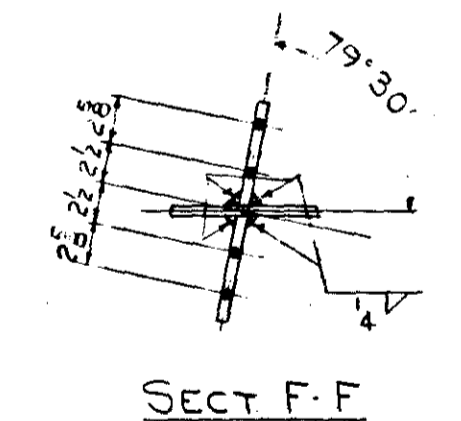
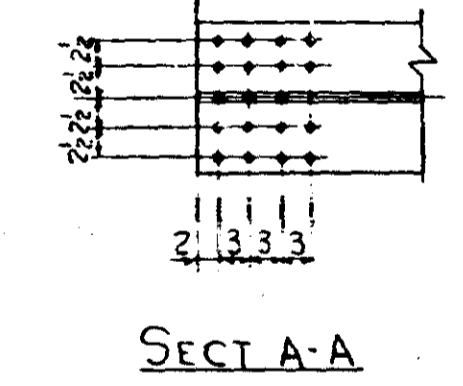
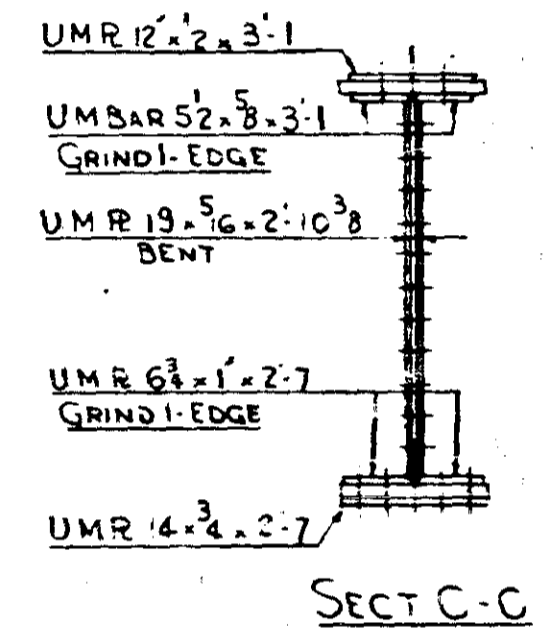
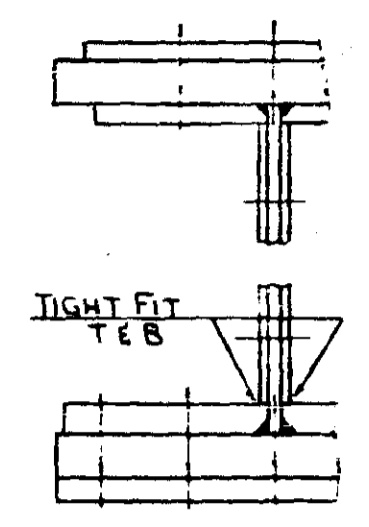
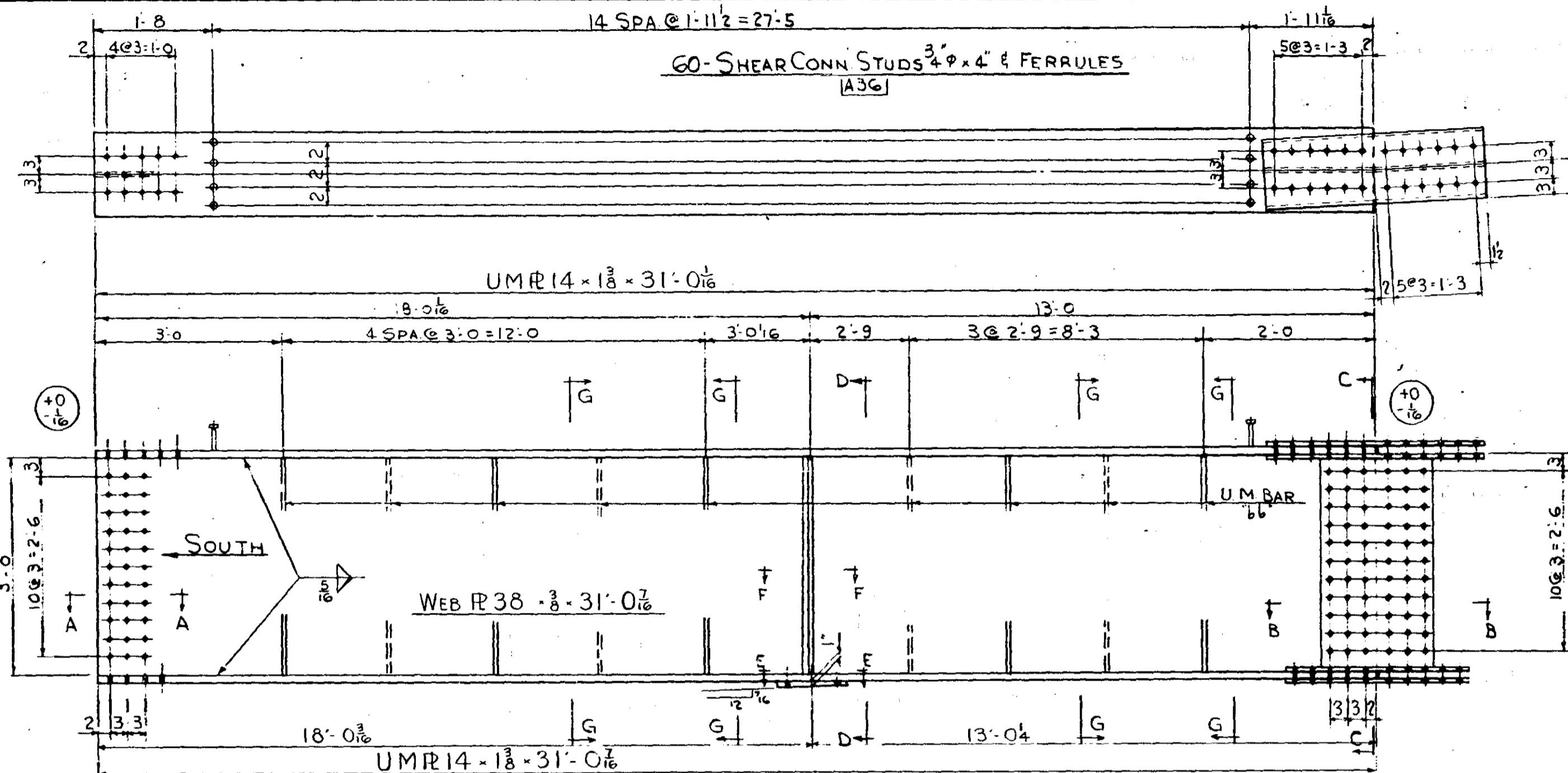


GENERAL NOTE SEE DWG #100

MINN PROJ NO I-IG 35W-3(58)112
SP NO 2783-9340B (TH 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.
GIRDER-DETAILS
Structure M.H.D. NO 9340
Location M.P.S. MINN
Contractor INDUSTRIAL CONSTR. CO.
Made by I.I. Checked by WES
Date 8-25-66 Shop 8-25-66
ORDER NO. 32647 DRAWING NO. 147

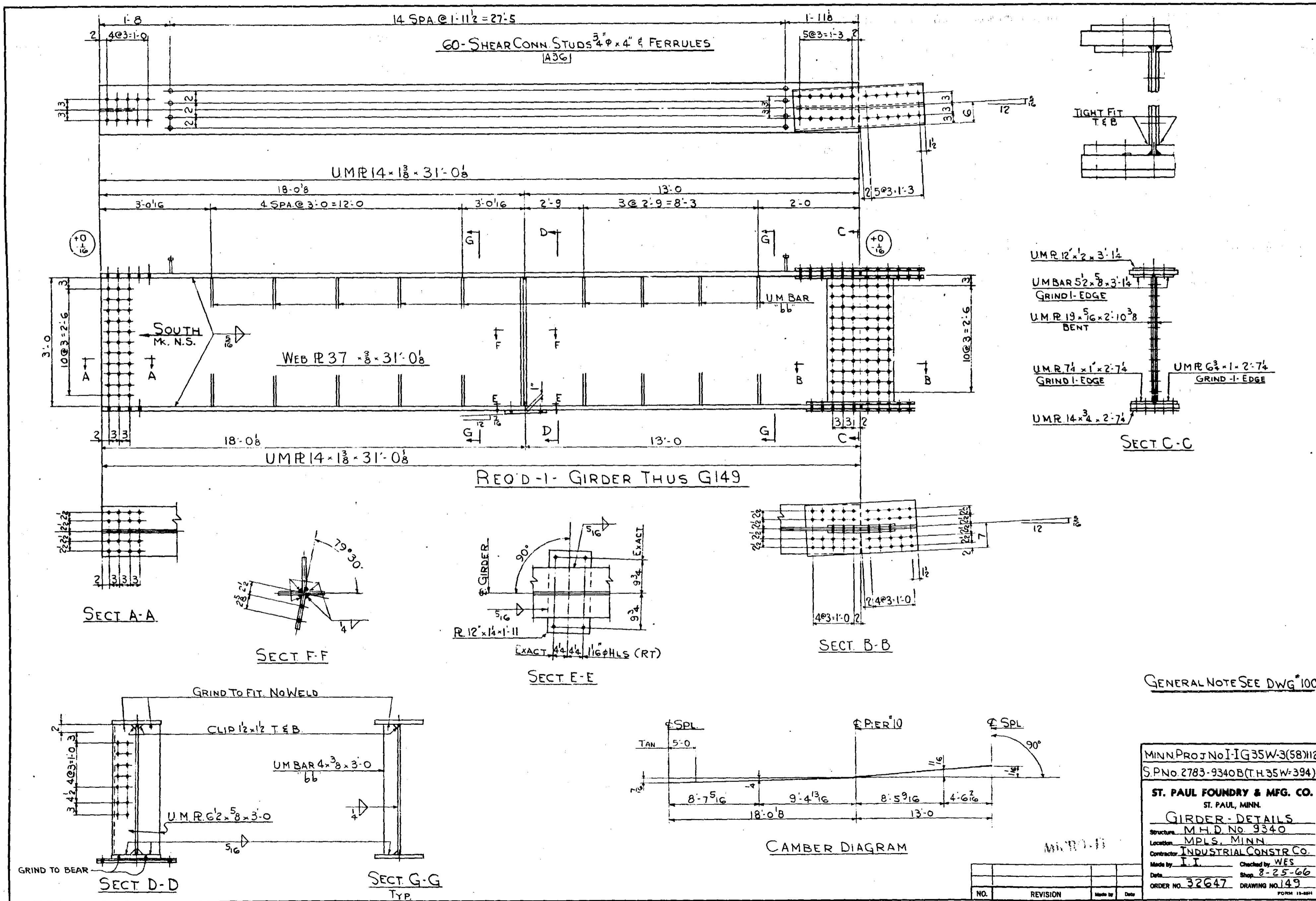
NO.	REVISION	Made by	Date



GENERAL NOTE SEE DWG 100

MINN PROJ NO I-G35W-3(58)12
 SP NO 2783-9340B (TH 35W-394)
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.
GIRDER-DETAILS
 Structure M.H.D. NO. 9340
 Location MPLS. MINN.
 Contractor INDUSTRIAL CONSTR CO.
 Made by I.I. Checked by WES
 Date Shop 2-25-66
 ORDER NO. 32647 DRAWING NO. 148

NO.	REVISION	Made by	Date



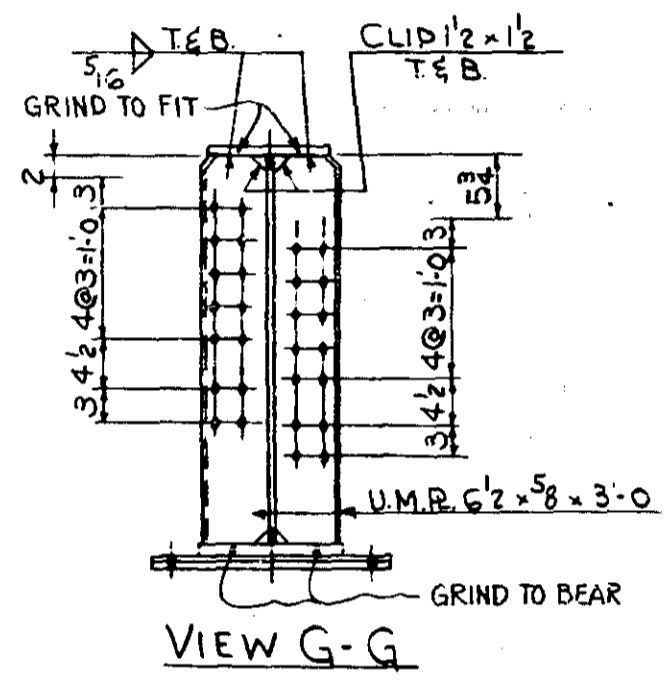
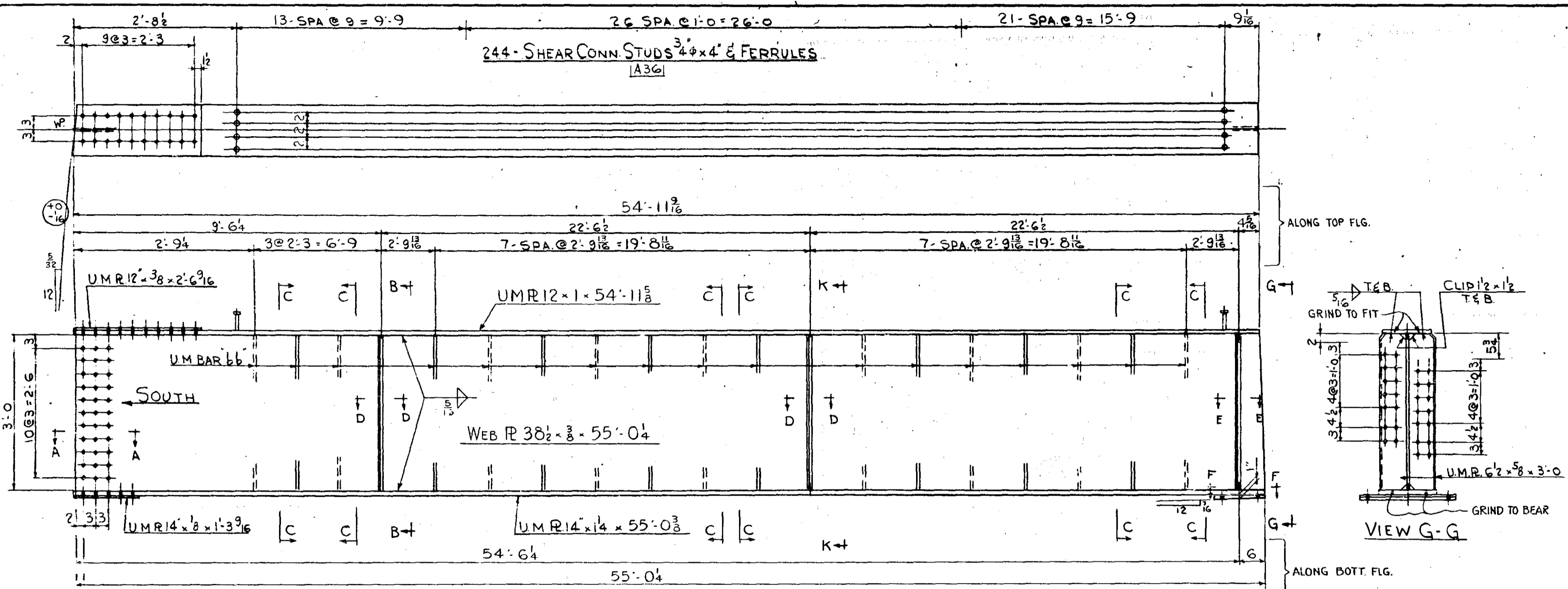
MINN PROJ No I-IG35W-3(58)112
 S.P.No 2783-9340B(T.H.35W-394)

ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

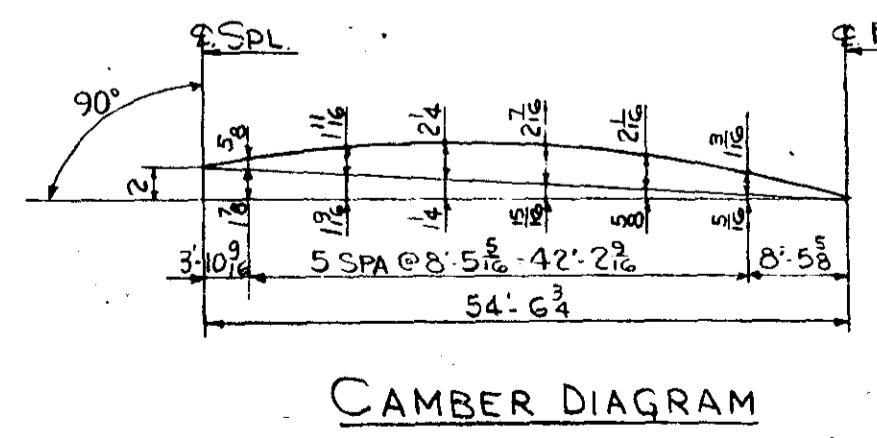
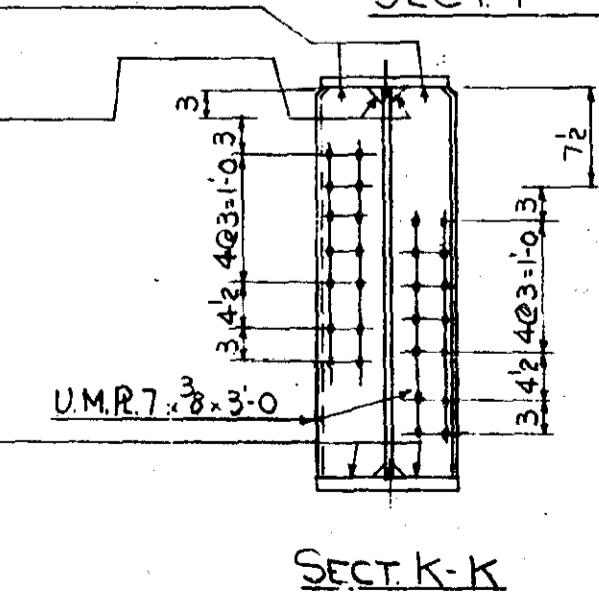
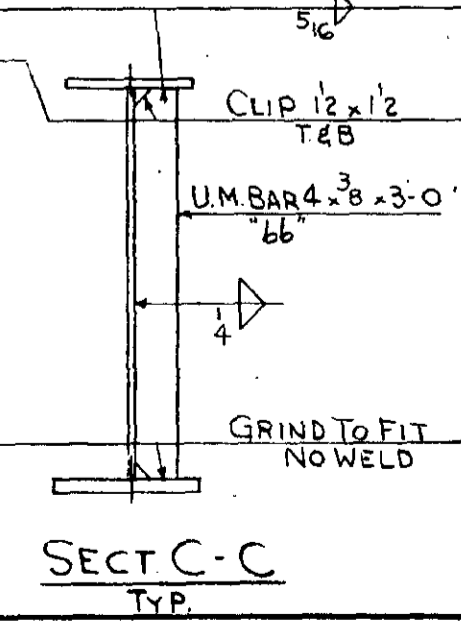
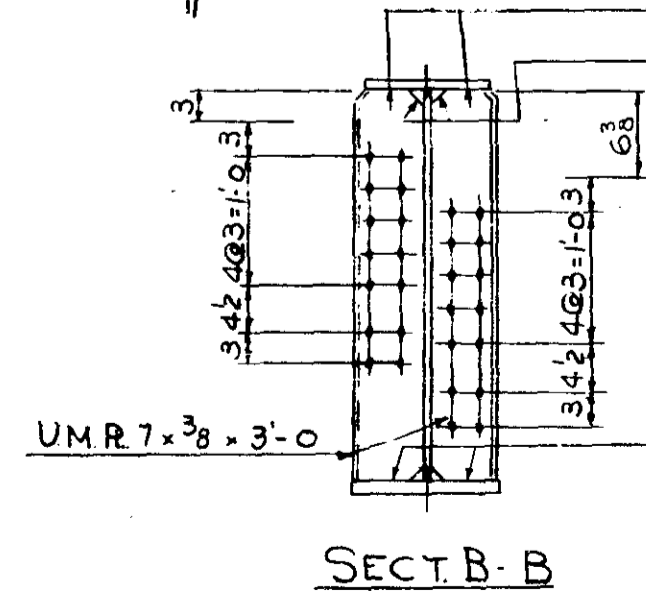
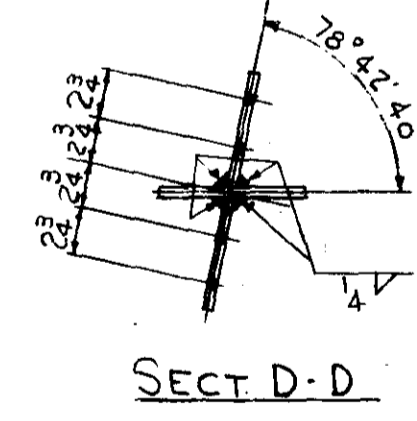
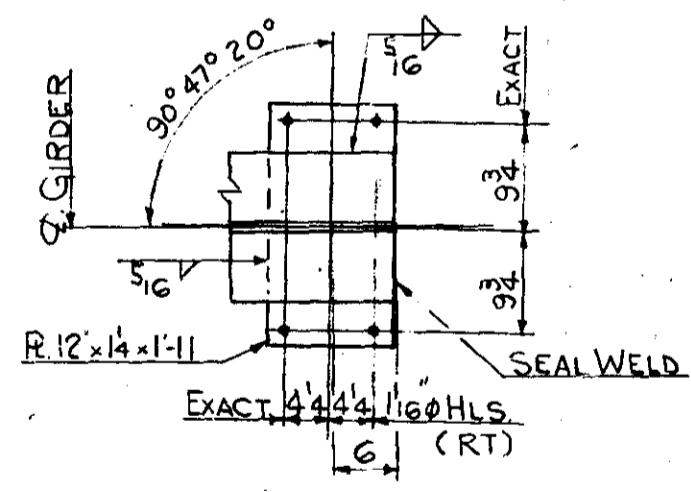
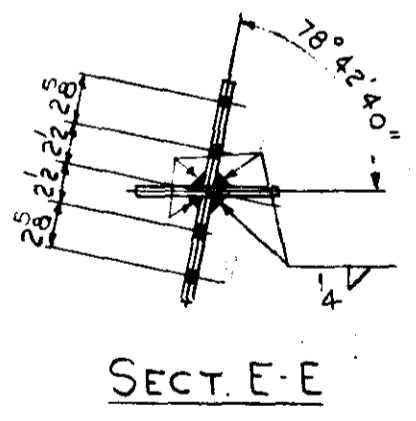
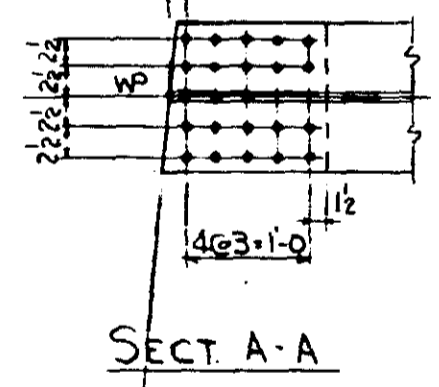
GIRDER-DETAILS

Structure M.H.D. No 9340
 Location MPLS. MINN
 Contractor INDUSTRIAL CONSTR. CO.
 Made by I. I. Checked by WES
 Date 8-25-66 Shop 8-25-66
 ORDER NO 32647 DRAWING NO 149
 FORM 13-65H

NO.	REVISION	Made by	Date



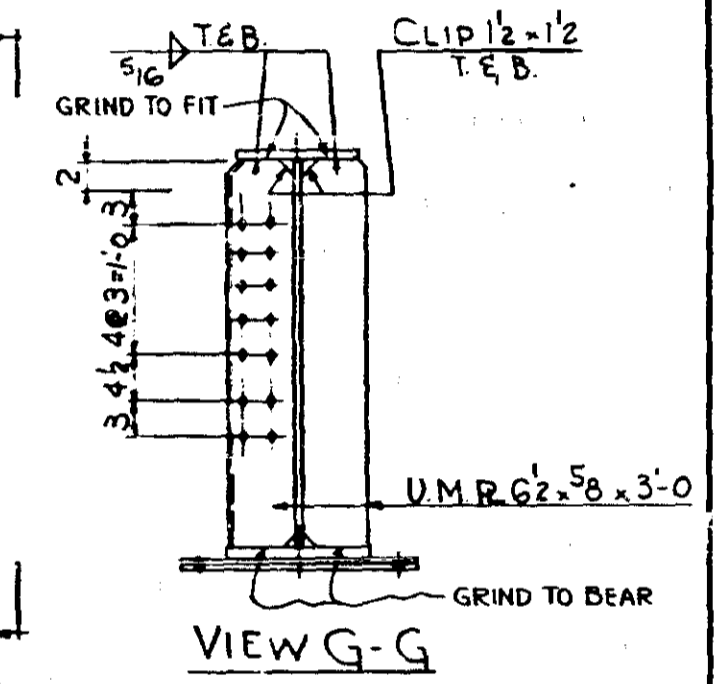
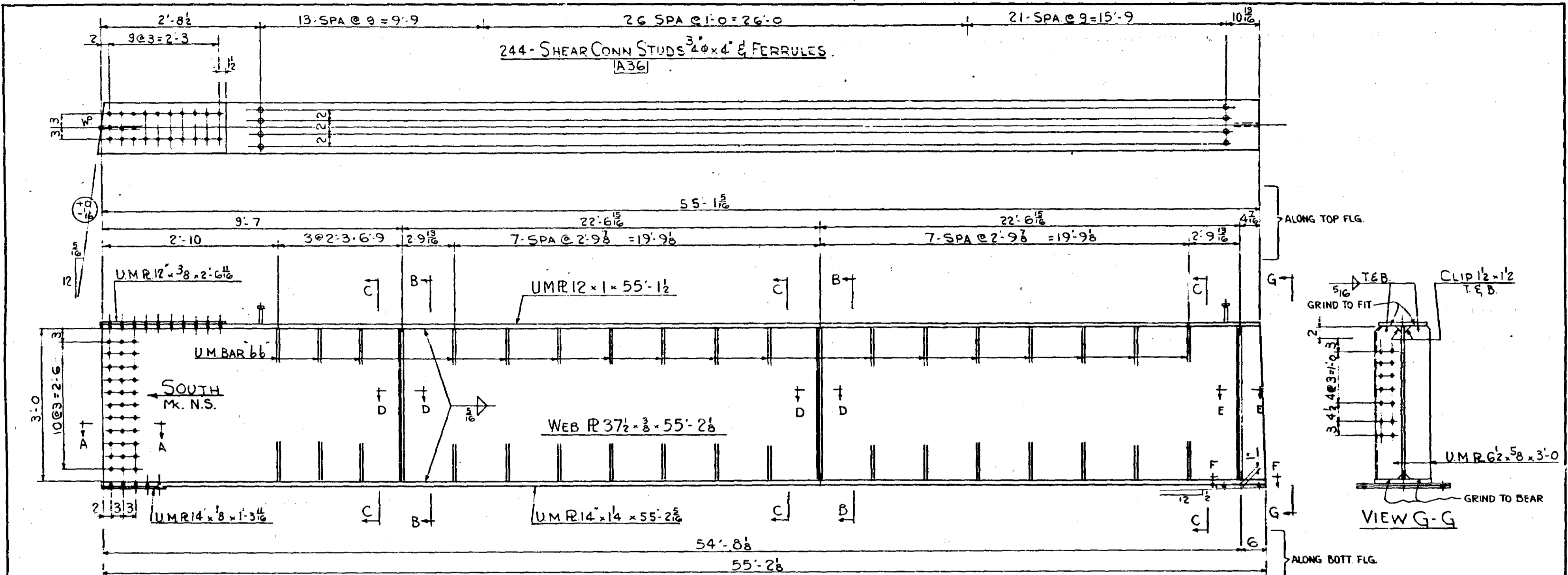
REQ'D - 1 - GIRDER THUS G150



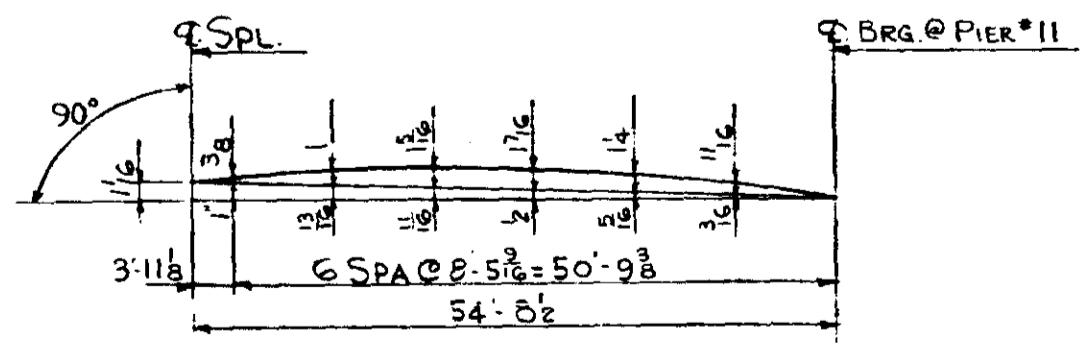
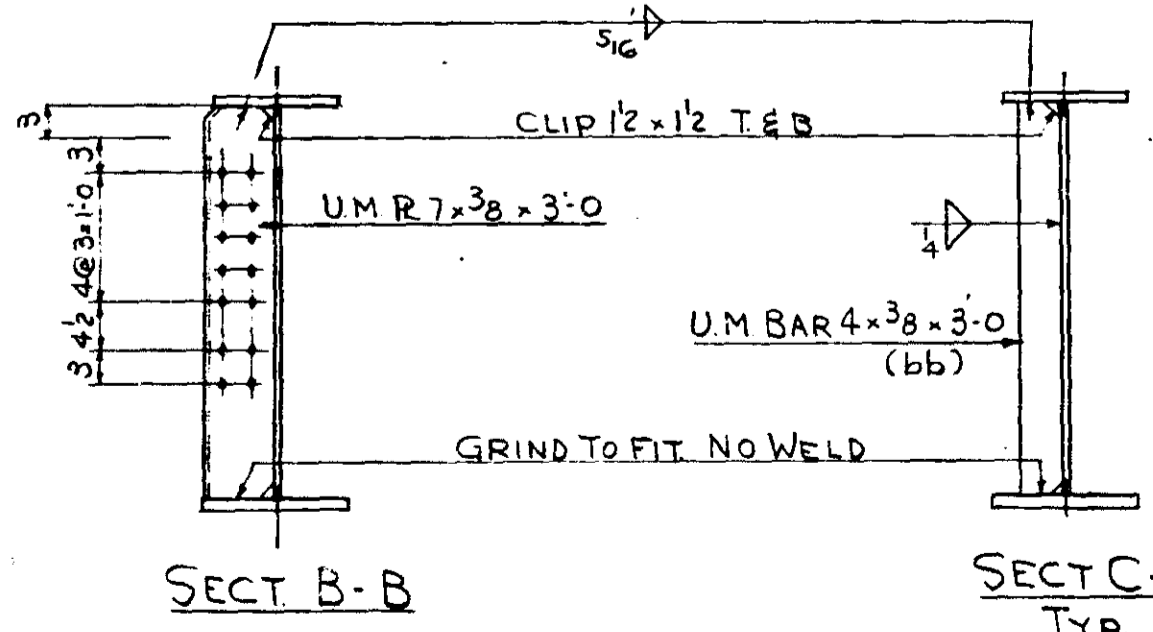
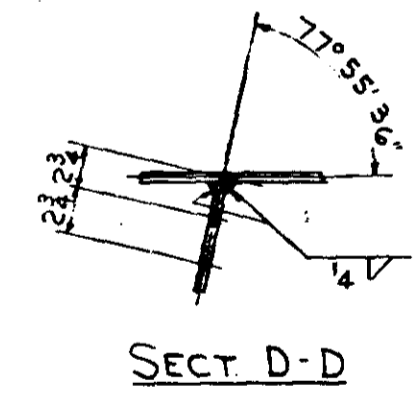
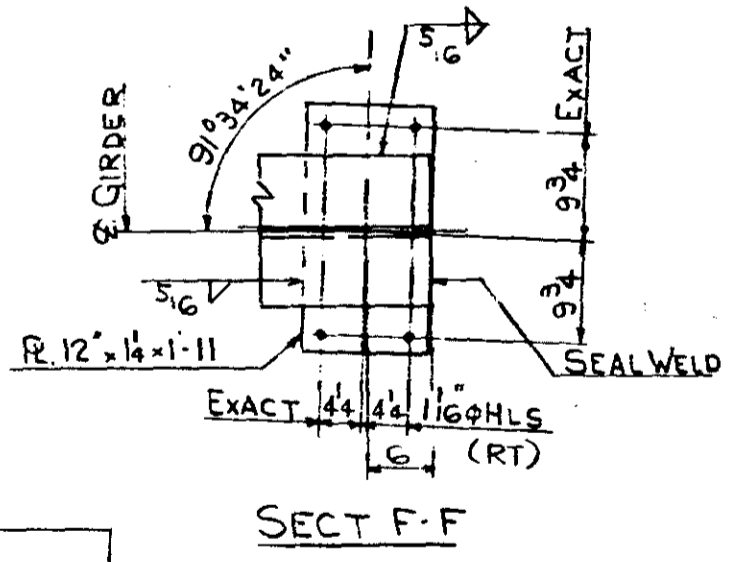
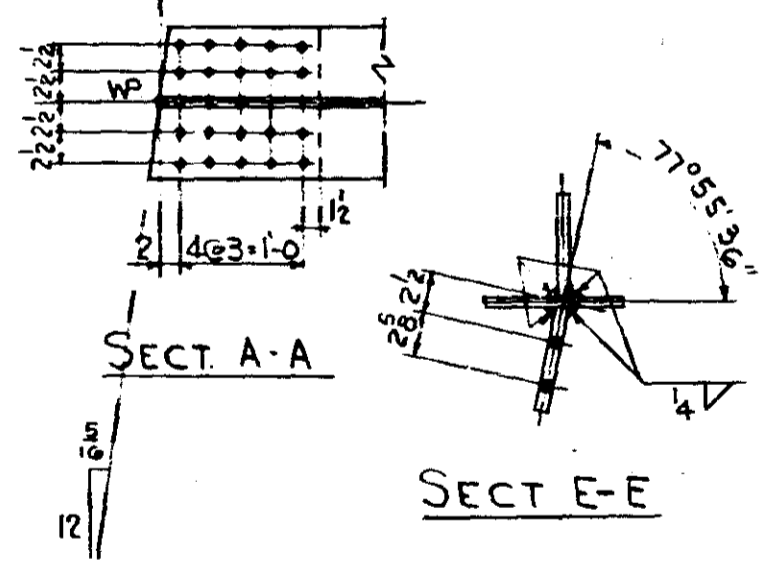
GENERAL NOTE SEE DWG # 100

MINN PROJ. NO. IIG 35W-3(58)112
 SPNO 2783-9340B (T.H. 35W-394)
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.
GIRDER-DETAILS
 Structure: M.H.D. NO. 9340
 Location: MPLS. MINN.
 Contractor: INDUSTRIAL CONSTR. CO.
 Made by: I.I. Checked by: WES
 Date: 8-25-66 Shop: 8-25-66
 ORDER NO. 32647 DRAWING NO. 150

NO.	REVISION	Made by	Date



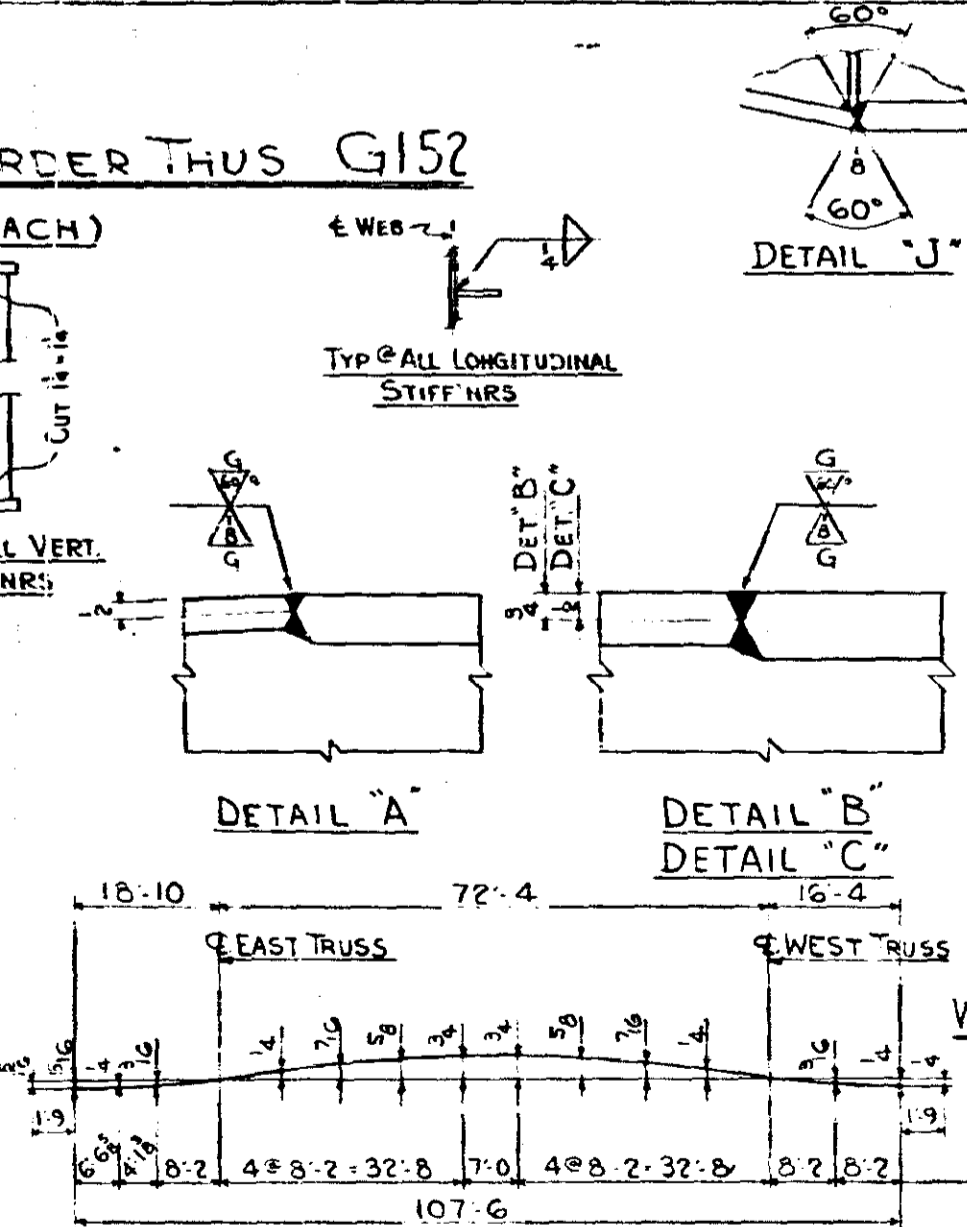
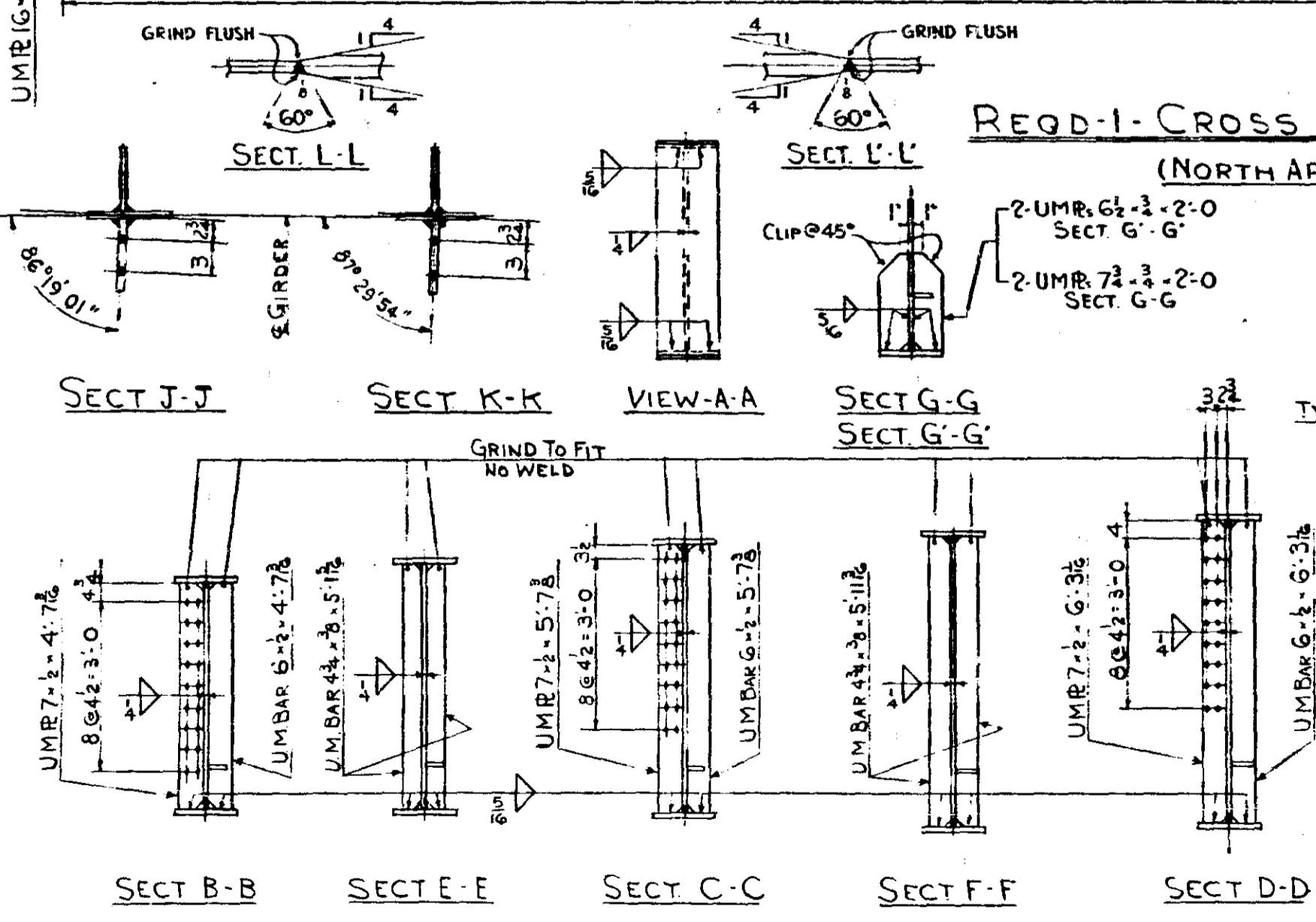
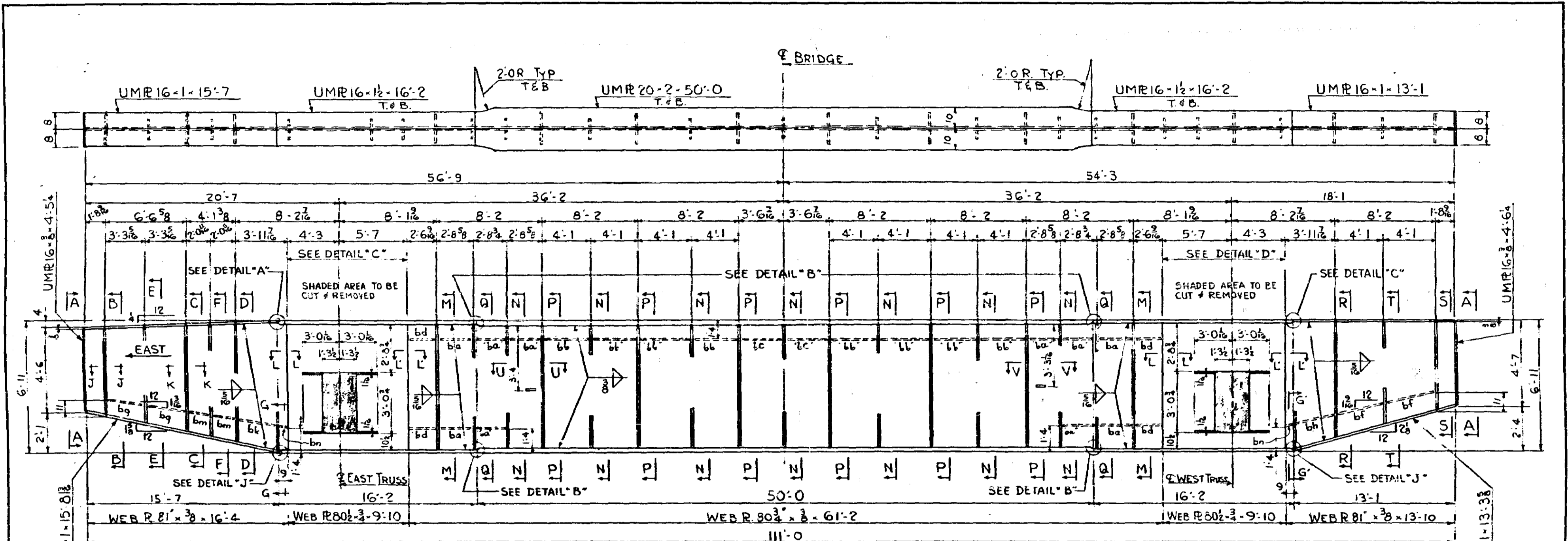
REQ'D - 1 - GIRDER THUS G151



GENERAL NOTE SEE DWG# 100

MINN PROJ NO IIG35W-3(58)112
 SPNO 2783-9340B (TH.35W-394)
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.
GIRDER-DETAILS
 Structure M.H.D. No. 9340
 Location MPLS. MINN.
 Contractor INDUSTRIAL CONSTR. CO.
 Made by I.I. Checked by W.E.S.
 Date 8-25-66 Shop 8-25-66
 ORDER NO. 32647 DRAWING NO. 151
 FORM 15-661

NO.	REVISION	Made by	Date



GENERAL NOTES

100% OF ALL FILLET WELDS SHALL BE EXAMINED BY MAGNETIC PARTICLE INSPECTION EXCEPT INTERMEDIATE STIFFENERS.

PAINT ALL CONTACT SURFACES.

PAINT 1-COAT M.H.D. 3509 ORANGE PRIMER.

FULL ASSEMBLY REAMING WILL BE REQUIRED AS PER M.H.D. 2471.3E1D.

HOLES SHALL BE SUBPUNCHED 1/16" REAMED TO 15/16" OR DRILLED FROM A SOLID.

ALL STEEL TO BE AS PER M.H.D. 3310 UN STEEL MARKED A36 TO BE AS PER M.H.D. 3306.

FOR FLAME CUTTING SEE M.H.D. SPECS 2471.3C4.

EDGE FINISH AS PER M.H.D. 2471.3D3 & 2471.3D4.

MAT'L & SHOP WORK AS PER M.H.D. SPECS DATED 1-1-64 & SPECIAL PROVISIONS.

CAMBER AS SHOWN.

SHOP INSPECTION BY M.H.D.

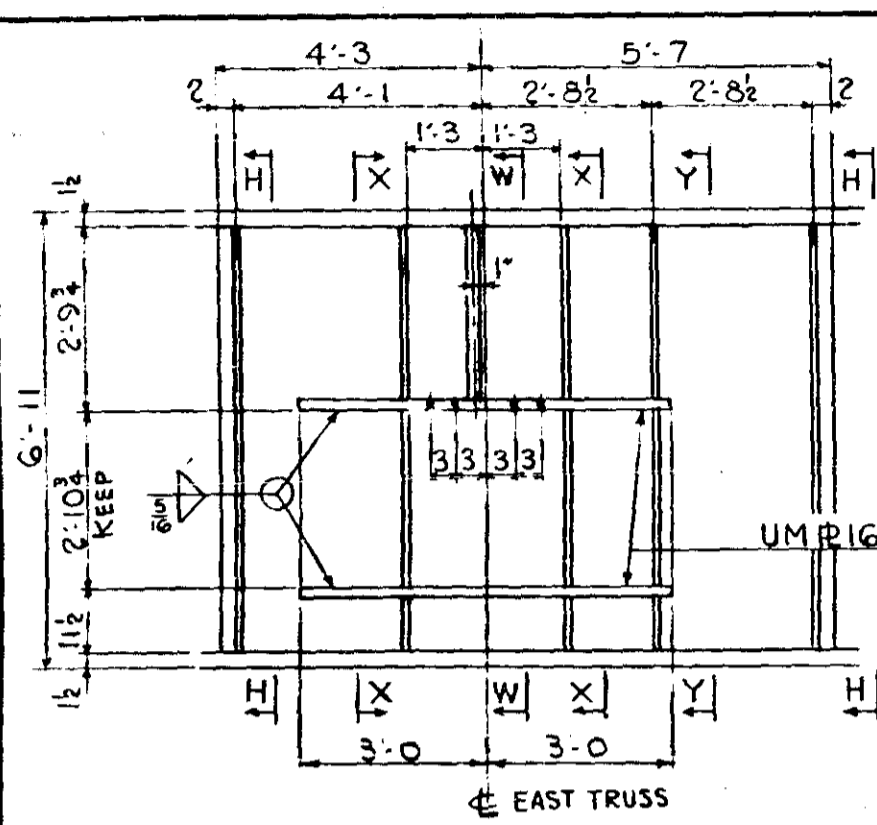
MINN PROJ. NO. I-IG 35W-3(58)112
 SP NO. 2783-9340B (TH 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

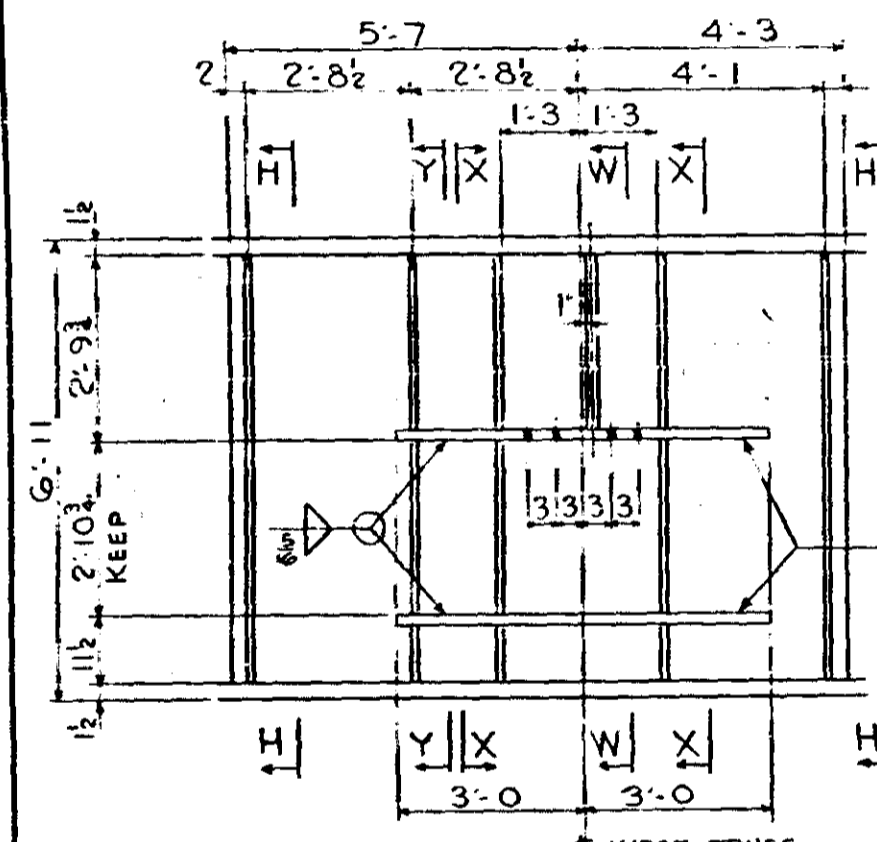
CROSS GIRDER-DETAILS
 M.H.D. NO. 9340

Structure: MPLS. MINN.
 Location: INDUSTRIAL CONSTR. CO.
 Made by: J.I. Checked by: WES
 Date: 8-25-66
 ORDER NO. 32647 DRAWING NO. 152

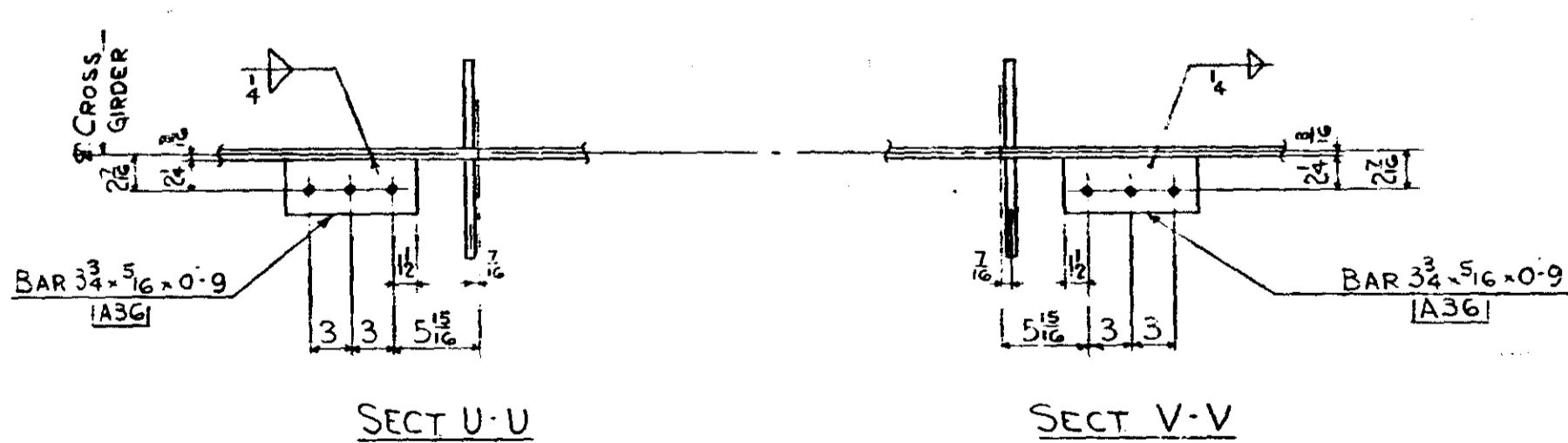
NO.	REVISION	Made by	Date



DETAIL "C"

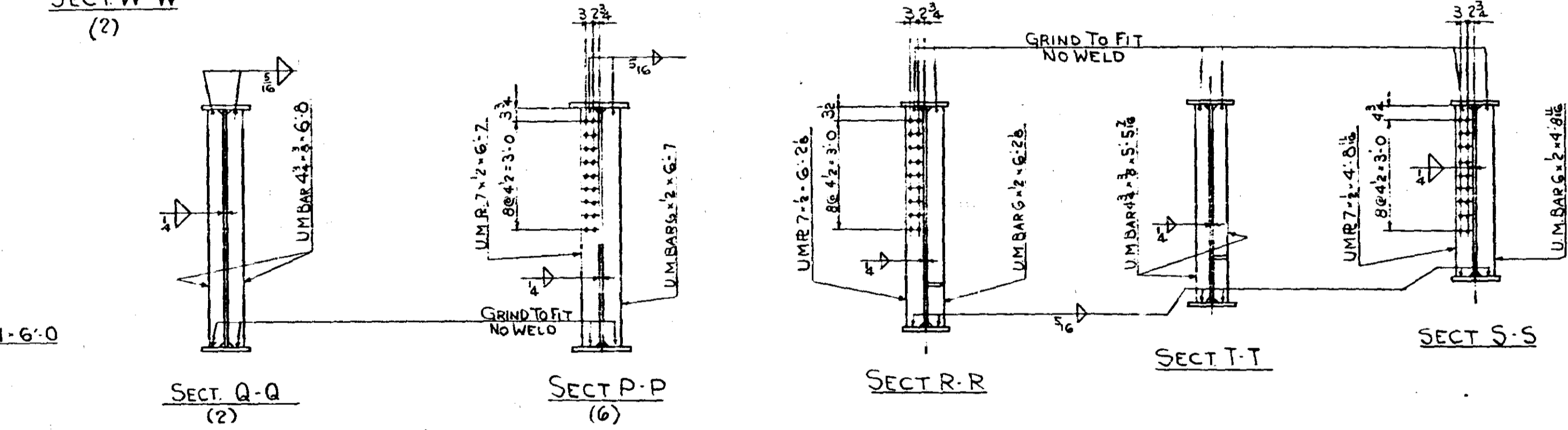
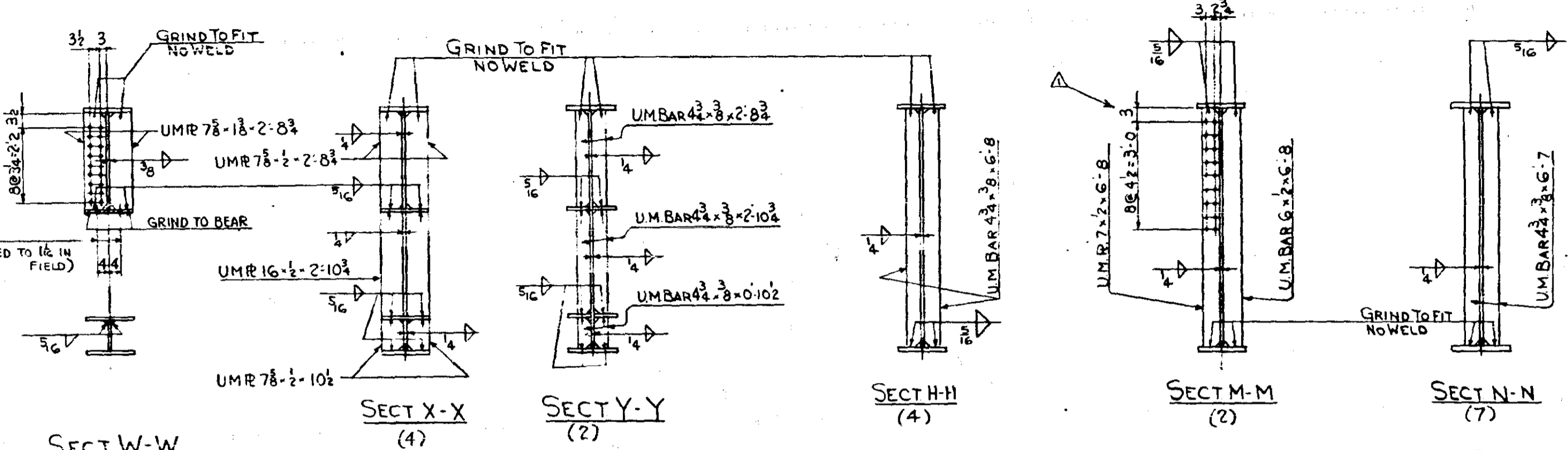


DETAIL "D"



SECTION U-U

SECTION V-V

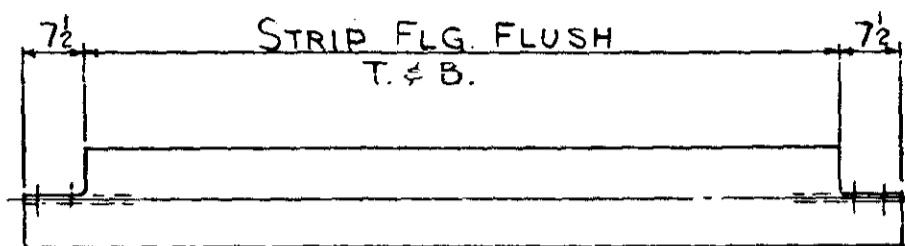


LONGITUDINAL STIFFNRS		
REQD-10-	UMBARS 4 3/8 x 2-7 1/2	ba
" -5-	Do - 3-11 1/8	bb
" -2-	Do - 3-5	bc
" -4-	Do - 2-5 1/2	bd
" -2-	Do - 4-0	bf
" -2-	Do - 3-2 1/2	bq
" -1-	Do - 3-1 1/2	bh
" -1-	Do - 3-1 1/4	bk
" -2-	Do - 1-11 1/8	bm
" -2-	Do - 0-7 1/8	bn

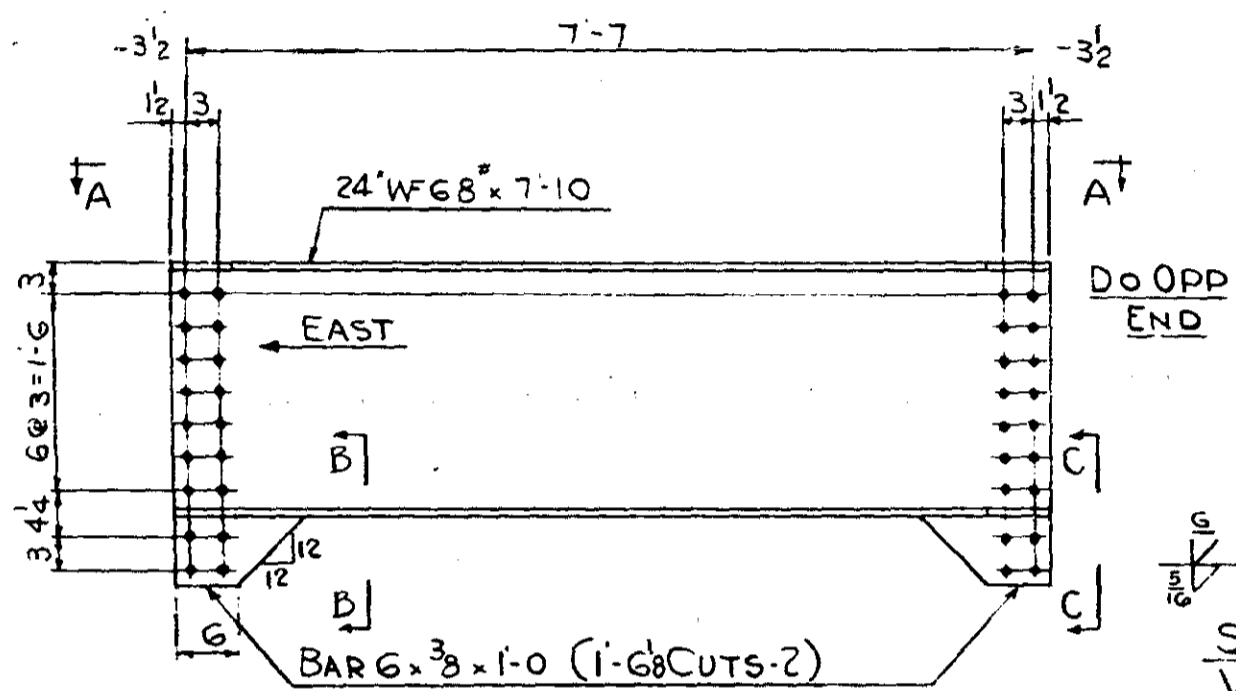
WORK THIS DWG WITH DWG. 152

MINN PROJ NO I-IG 35W-3(50)112
 SP No. 2783-9340B (T.H. 35W-394)
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.
CROSS GIRDER - DETAILS
 Structure M.H.D. No. 9340
 Location MPLS. MINN.
 Contractor INDUSTRIAL CONSTR. CO.
 Made by I.T. Checked by WES
 Date 8-25-66 Shop
 ORDER NO. 32647 DRAWING NO. 153

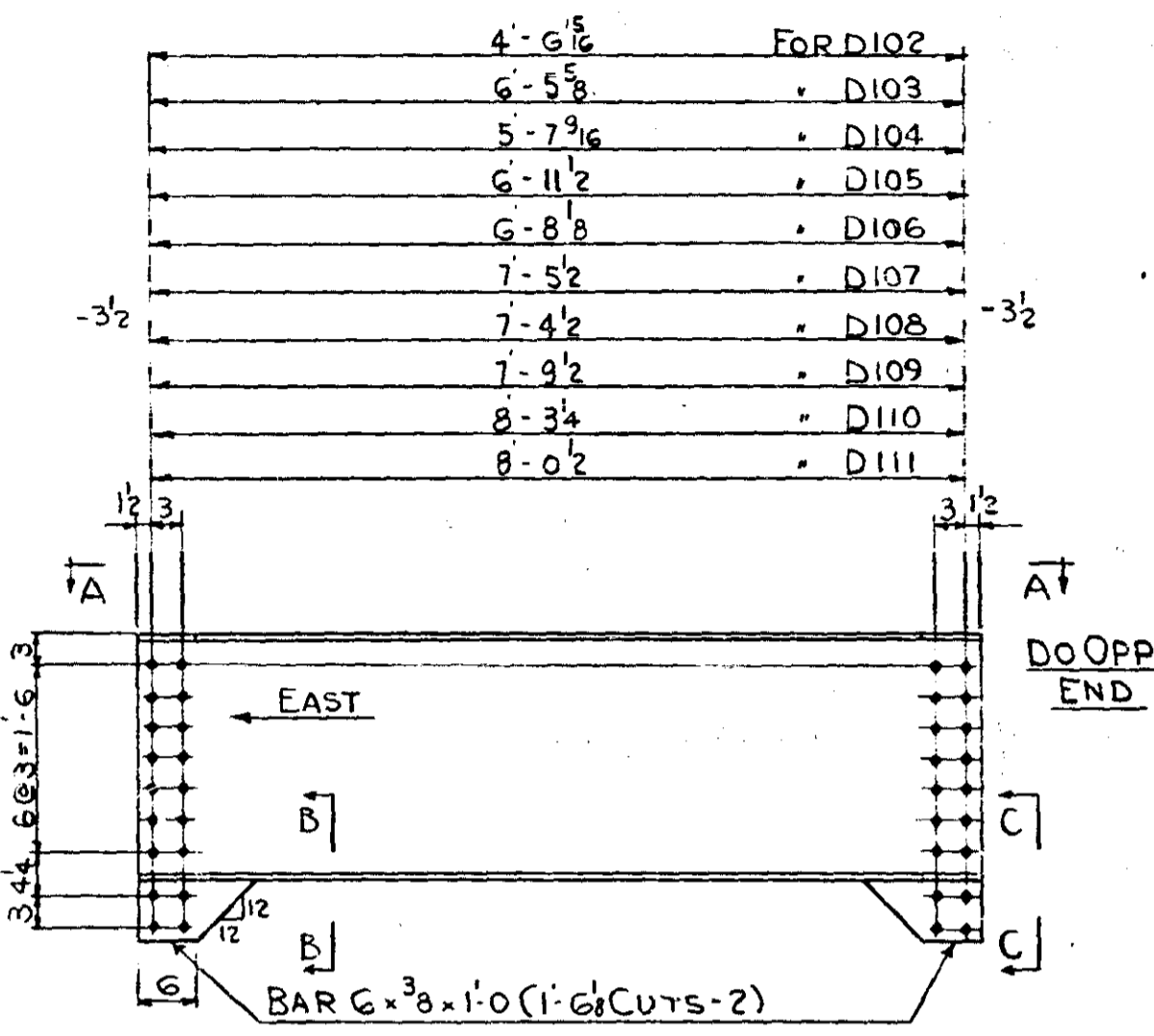
NO.	REVISION	Made by	Date
1	TOP HOLES SECT. M-M	WES	8/30



VIEW A-A

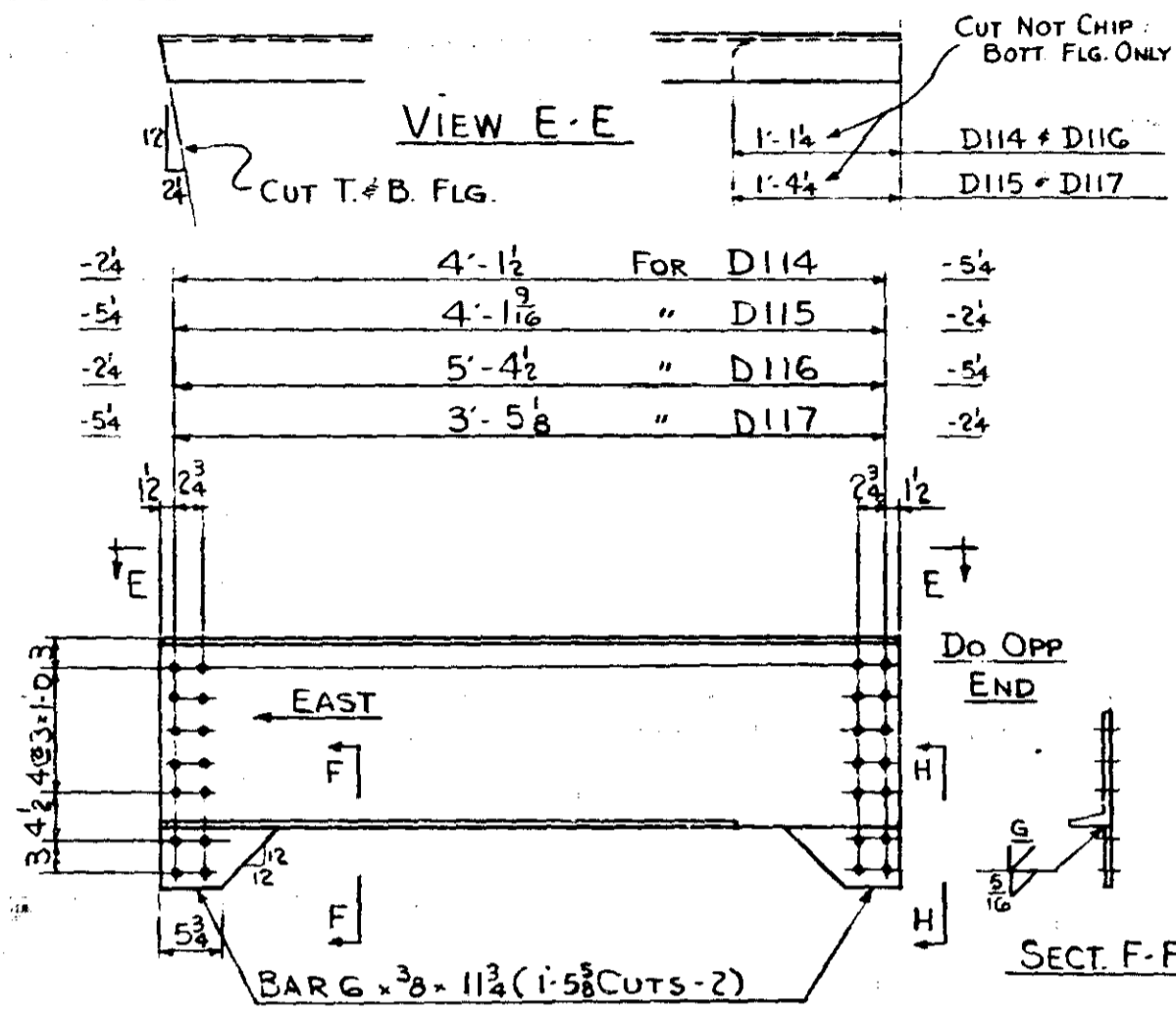


REQ'D - 44 - DIAPHRAGMS THUS MK D101



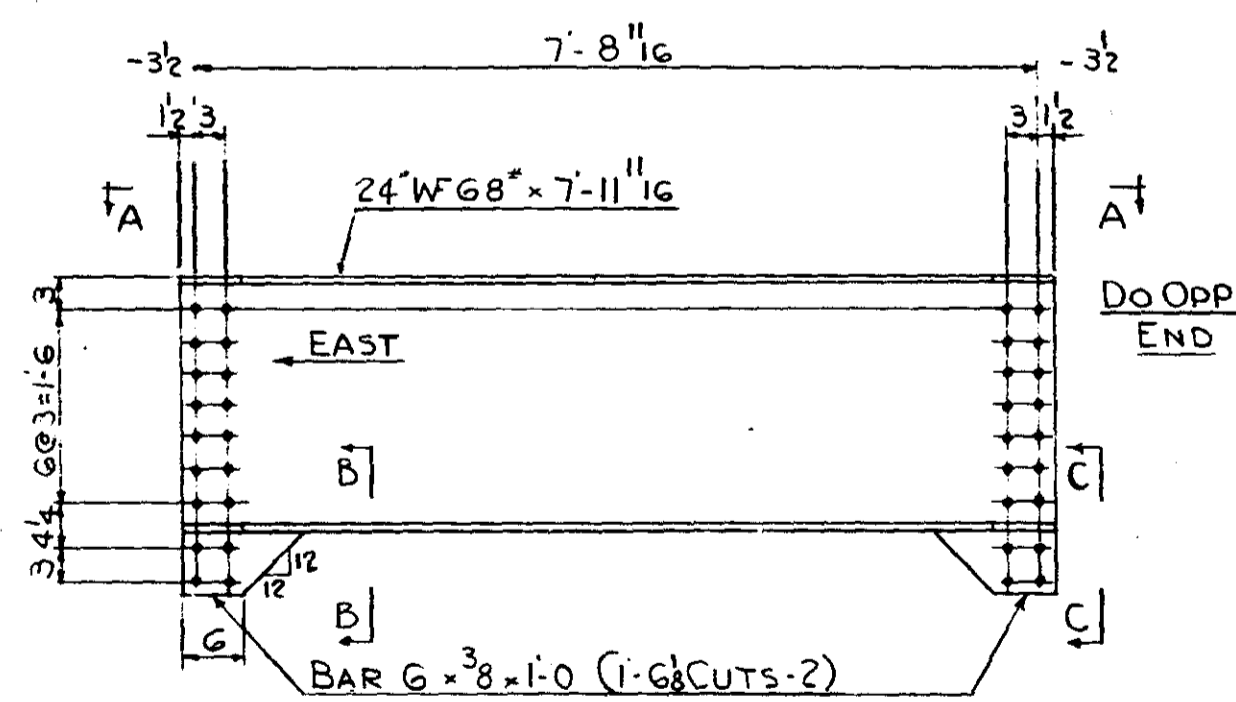
24' WFG 8" x 4'-9 15/16 REQ'D - I - DIAPHRAGM THUS D102

DO	x 6-8 5/8	" -1-	"	"	"	D103
DO	x 5-10 9/16	" -1-	"	"	"	D104
DO	x 7-2 2/2	" -1-	"	"	"	D105
DO	x 6-11 1/8	" -1-	"	"	"	D106
DO	x 7-8 1/2	" -1-	"	"	"	D107
DO	x 7-7 1/2	" -1-	"	"	"	D108
DO	x 8-0 2/2	" -1-	"	"	"	D109
DO	x 8-6 4/4	" -1-	"	"	"	D110
DO	x 8-3 1/2	" -1-	"	"	"	D111

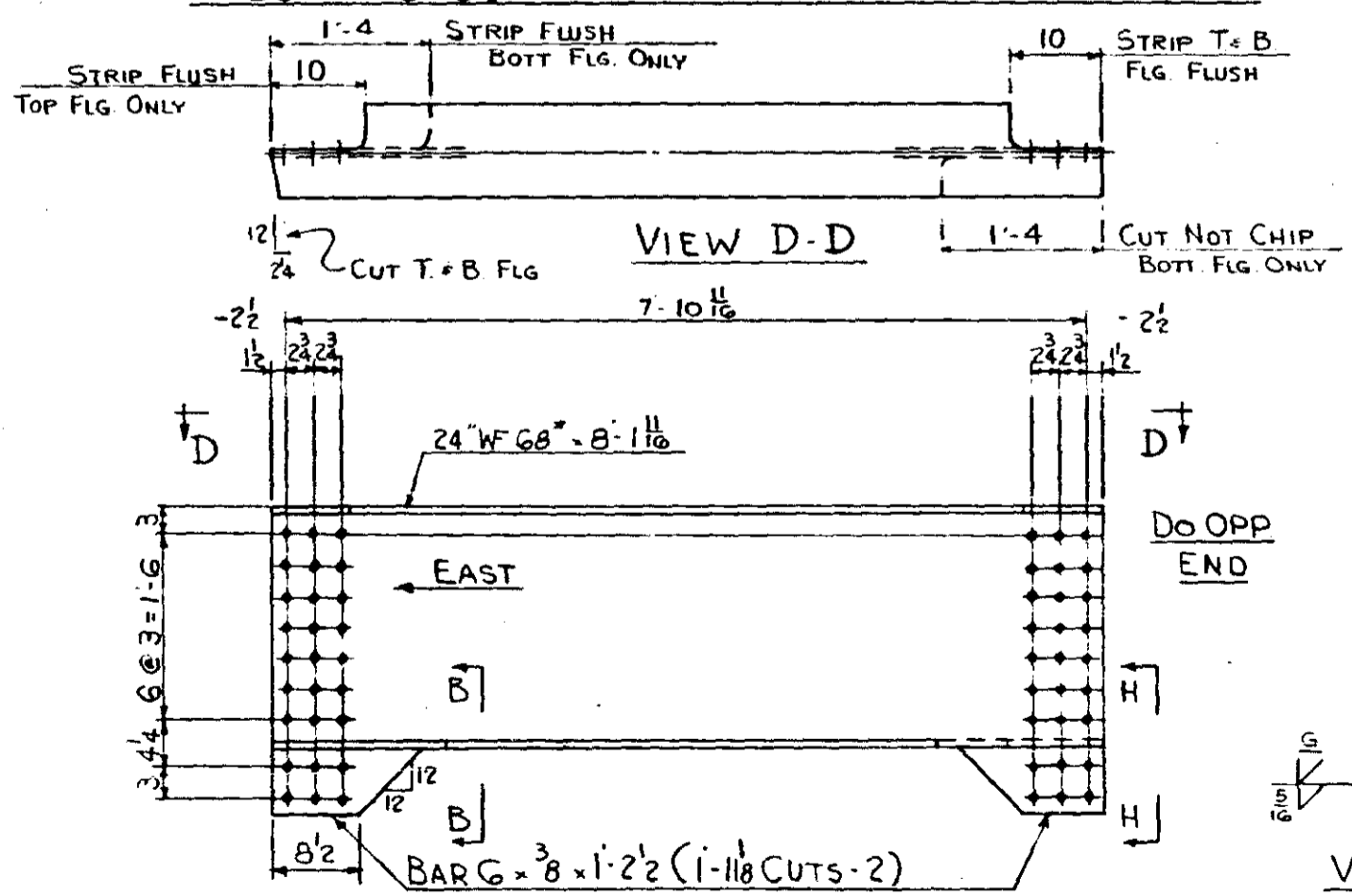


18' C 427" x 4'-4 1/2 REQ'D - I - DIAPHRAGM THUS D114

DO	x 4-4 3/16	" -1-	"	"	"	D115
DO	x 5'-7 1/2	" -1-	"	"	"	D116
DO	x 3'-8 3/8	" -1-	"	"	"	D117



REQ'D - 11 - DIAPHRAGMS THUS MK D112



REQ'D - 11 - DIAPHRAGMS THUS MK D113

GENERAL NOTE SEE DRWG. #100

MINN PROJ No. IG 35W-3(58)112
 SP No 2783-9340B (TH. 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

DIAPHRAGM-DETAILS

Structure M.H.D. No. 9340
 Location MPLS. MINN
 Contractor INDUSTRIAL CONSTR. CO.
 Made by II Checked by WES
 Date 2-15-66 Shop 2-15-66
 ORDER NO. 32647 DRAWING NO. 154

NO.	REVISION	Made by	Date

THE FOLLOWING RIVETS TO HAVE MANUFACTURED HEADS AS PER M.H.D. 3316 TYPE II FOR LOCATION SEE SHEETS EF101 & EF102

REQD. 1450	RIVETS	$\frac{3}{8}$ " - $2\frac{1}{2}$ "	(GRIP 1)
" 105	"	" - $4\frac{1}{2}$ "	(" 2 $\frac{1}{2}$)
" 135	"	" - $5\frac{1}{8}$ "	(" 3 $\frac{1}{4}$)
" 650	"	" - $5\frac{1}{2}$ "	(" 3 $\frac{3}{8}$)
" 1300	"	" - $6\frac{3}{4}$ "	(" 4 $\frac{1}{8}$)

THE FOLLOWING RIVETS TO HAVE MANUFACTURED HEADS AS PER M.H.D. 3316 TYPE I FOR LOCATION SEE SHEETS EF101 & EF102

REQD. 10	RIVETS	$\frac{3}{8}$ " - $2\frac{1}{8}$ "	(GRIP $\frac{3}{8}$)
" 1450	"	" - $2\frac{1}{4}$ "	(" $\frac{3}{4}$)
" 3700	"	" - $2\frac{3}{8}$ "	(" $\frac{11}{16}$)
" 1400	"	" - $2\frac{1}{2}$ "	(" 1)
" 400	"	" - $2\frac{5}{8}$ "	(" $1\frac{1}{16}$)
" 175	"	" - $2\frac{3}{4}$ "	(" $1\frac{1}{4}$)
" 650	"	" - $2\frac{7}{8}$ "	(" $1\frac{1}{8}$)
" 40	"	" - $3\frac{1}{8}$ "	(" 2)
" 45	"	" - $3\frac{3}{8}$ "	(" 2 $\frac{1}{8}$)
" 330	"	" - 4"	(" 2 $\frac{1}{4}$)
" 55	"	" - $4\frac{1}{4}$ "	(" 2 $\frac{1}{2}$)
" 70	"	" - $4\frac{3}{8}$ "	(" 2 $\frac{3}{8}$)
" 520	"	" - $4\frac{1}{2}$ "	(" 2 $\frac{1}{2}$)
" 90	"	" - 5"	(" 3 $\frac{1}{8}$)

REQD. 20 RIVETS $1\frac{1}{2}$ " - 6" (GRIP 4)

HIGH STRENGTH BOLTS AS PER M.H.D. 3391B STYLE II FOR LOCATION SEE SHEET EF102

REQD. 470 BOLTS $\frac{3}{4}$ " - 2 $\frac{1}{2}$ " (GRIP $1\frac{1}{2}$ " - 1") AS PER A.S.T.M. A-325 HVY. HEX STRUCT. BOLT WITH HVY. HEX NUT

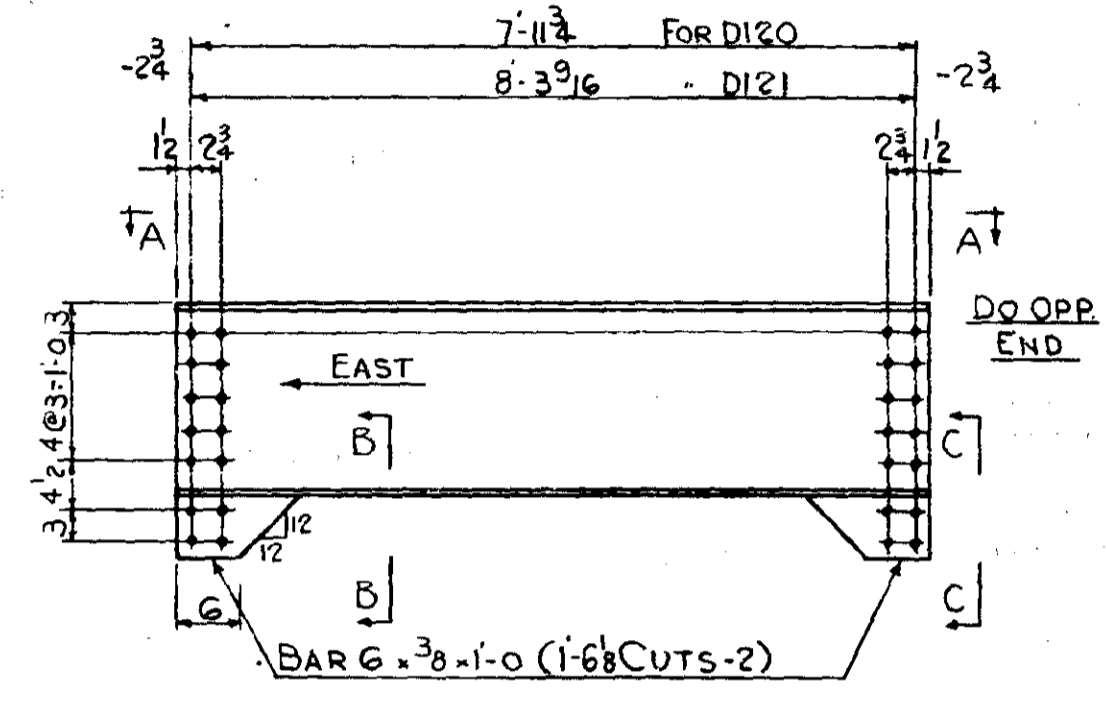
REQD. 470 CARBURIZED WASHER ($\frac{3}{8}$ " HOLE)

BOLTS AS PER M.H.D. 3391A FOR LOCATION SEE SHEET EF102

REQD. 115 MACH. BOLTS $\frac{3}{4}$ " - 3" (GRIP $1\frac{1}{2}$ " WITH HVY. HEX HD. NUT w/w

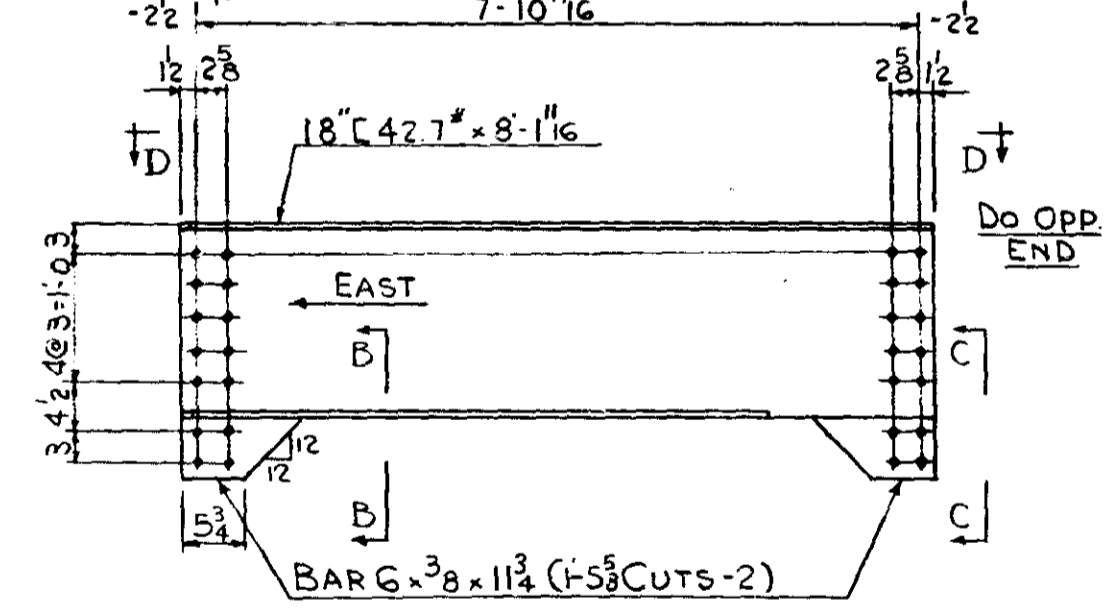
REQD. 115 STD. BEV. WASHER

4-9 $\frac{3}{4}$	FOR D122
5-10 $\frac{1}{2}$	" D123
4-8	" D124
5-3 $\frac{5}{16}$	" D125
6-2 $\frac{3}{16}$	" D126
5-8 $\frac{1}{16}$	" D127
5-10 $\frac{3}{16}$	" D128
6-6 $\frac{1}{16}$	" D129
6-9 $\frac{7}{8}$	" D130
6-10 $\frac{5}{16}$	" D131
7-2 $\frac{1}{16}$	" D132
4-11 $\frac{1}{8}$	" D133
4-11 $\frac{5}{8}$	" D134
7-4 $\frac{1}{4}$	" D135
7-6 $\frac{5}{16}$	" D136
6-5	" D137
5-4 $\frac{11}{16}$	" D138

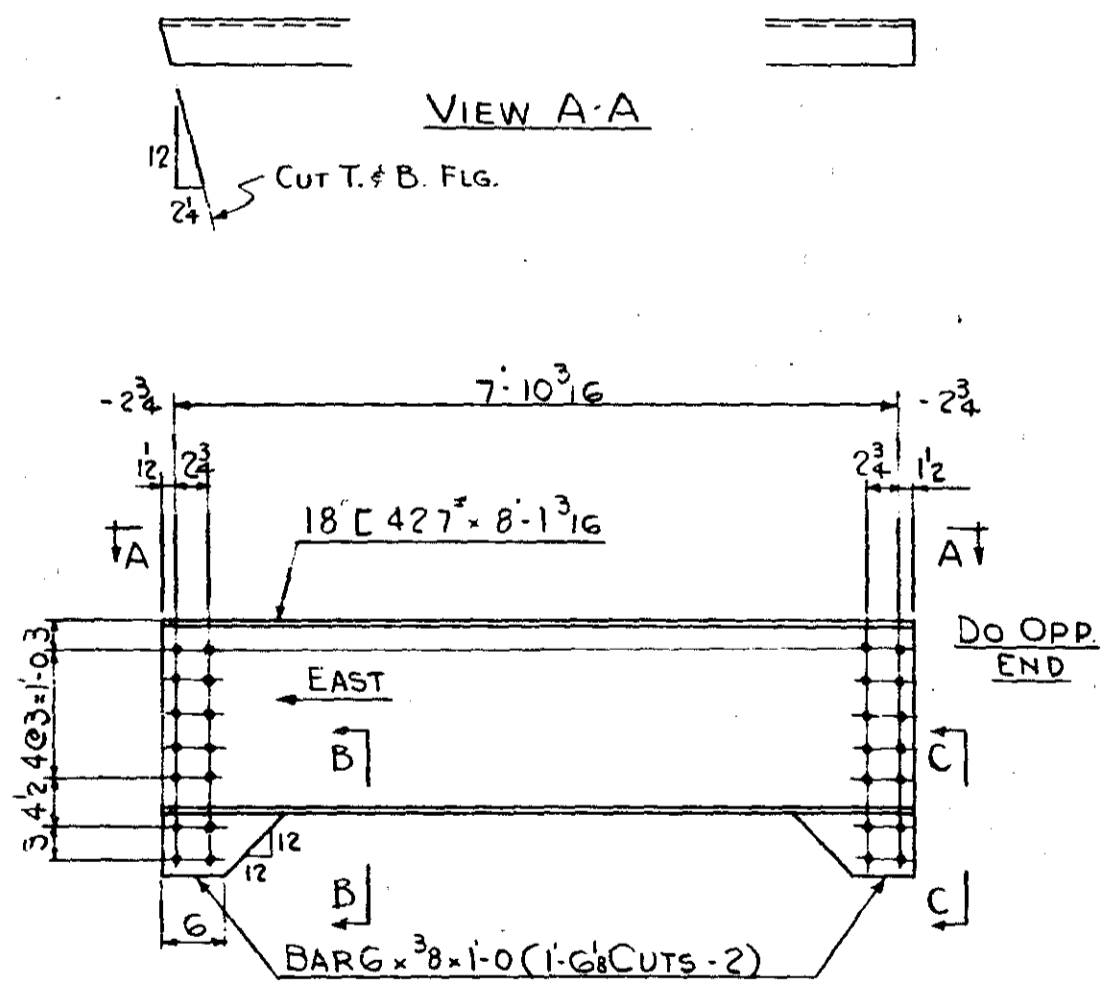


18" C 42.7" x 8-2 3/4 REQ'D-2-DIAPHRAGM THUS D120
Do x 8-6 3/16 -2- D121

CUT T. # B. FLG. VIEW D-D 1-4 CUT NOT CHIP BOTT. FLG. ONLY



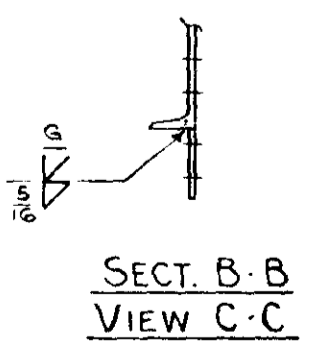
REQ'D - 11 - DIAPHRAGMS THUS MK. D119



REQ'D-51- DIAPHRAGMS THUS MK. D118

18" C 42.7" x 5-0 3/4 REQ'D-2-DIAPHRAGM THUS D122

DO x 6-1 1/2	-1-	"	D123
DO x 4-11	-1-	"	D124
DO x 5-6 15/16	-2-	"	D125
DO x 6-5 9/16	-1-	"	D126
DO x 5-11 15/16	-1-	"	D127
DO x 6-1 3/8	-2-	"	D128
DO x 6-9 9/16	-1-	"	D129
DO x 7-0 8/8	-1-	"	D130
DO x 7-1 1/16	-2-	"	D131
DO x 7-5 1/16	-1-	"	D132
DO x 5-2 8/8	-1-	"	D133
DO x 5-2 8/8	-1-	"	D134
DO x 7-7 1/4	-2-	"	D135
DO x 7-9 5/16	-1-	"	D136
DO x 6-8	-1-	"	D137
DO x 5-7 11/16	-1-	"	D138



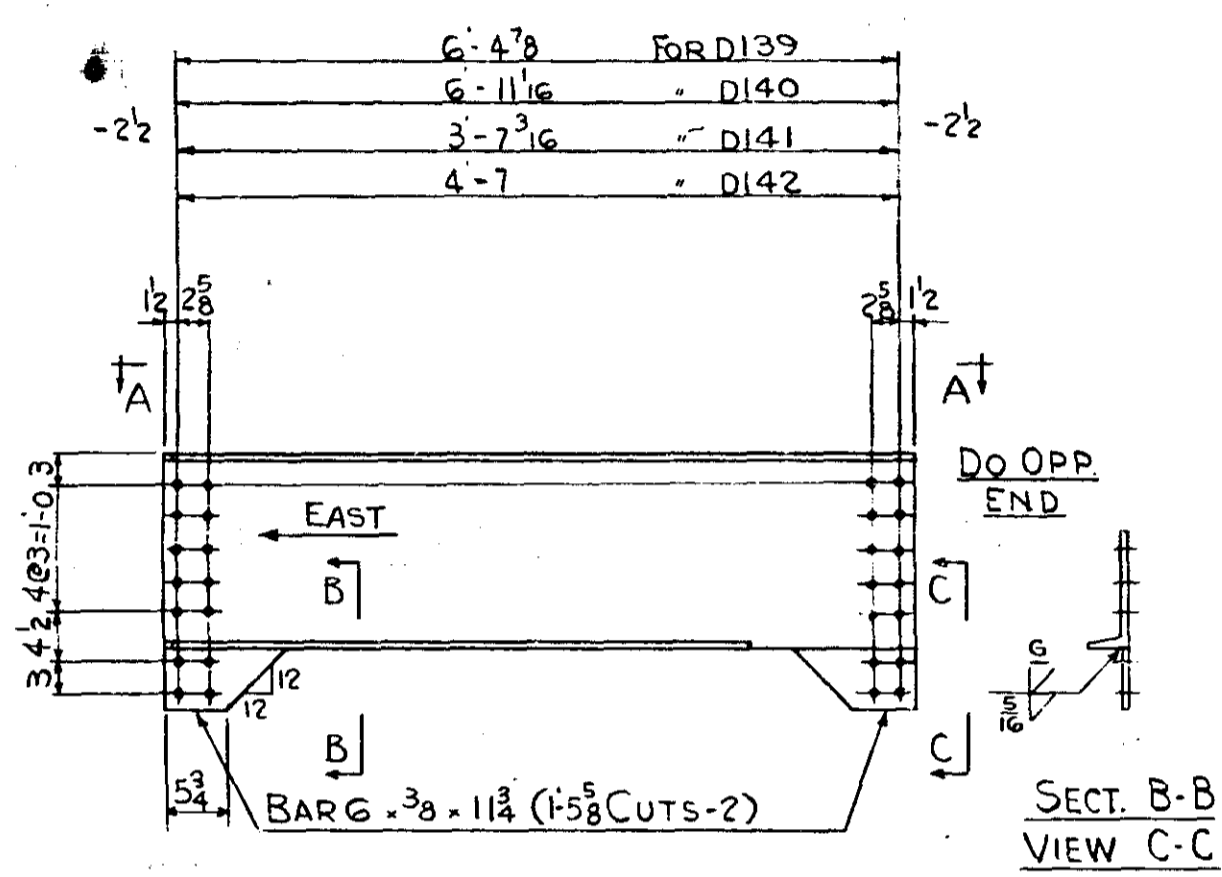
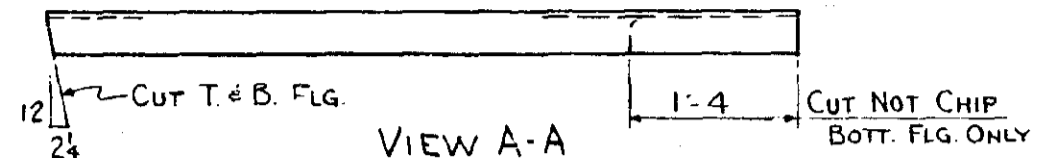
GENERAL NOTE SEE DWG. #100

MINN PROJ No. IIG 35W-3(58)112
SPNO 2783-9340B(T.H.35W=394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.
DIAPHRAGM-DETAILS.

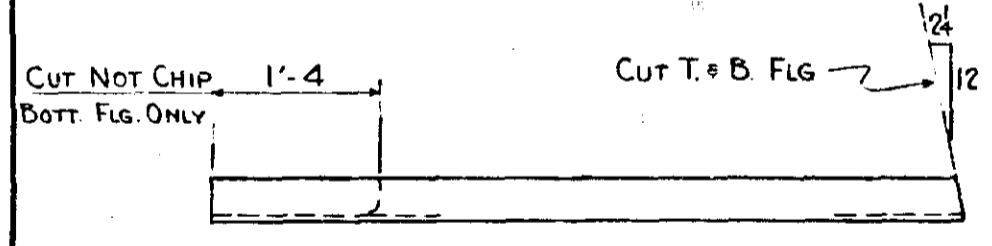
Structure: M.H.D. No. 9340
Location: MPLS. MINN.
Contractor: INDUSTRIAL CONSTR. CO.
Made by: I.T. Checked by: WES
Date: 9-15-66
Order No. 32647 DRAWING NO. 155
FORM 12-53H

ADD FIELD RIVET & BOLT LIST	WES	9/23
NO.	REVISION	Made by Date

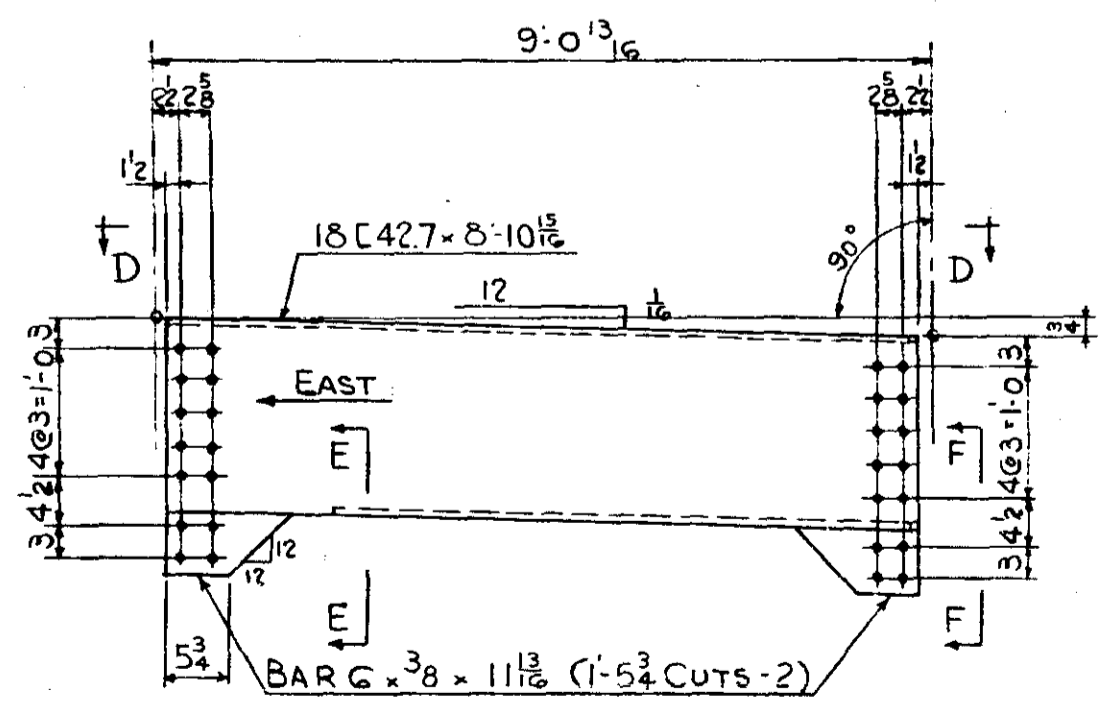


18 C 42.7 * 6'-7 3/8 REQD -2- DIAPHRAGM THUS D139

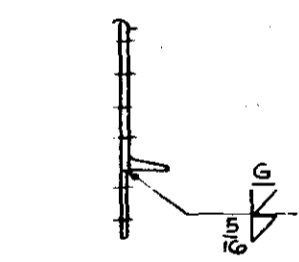
DO x 7'-2 1/8	-	-	-	D140
DO x 3'-10 3/8	-	-	-	D141
DO x 4'-10	-	-	-	D142



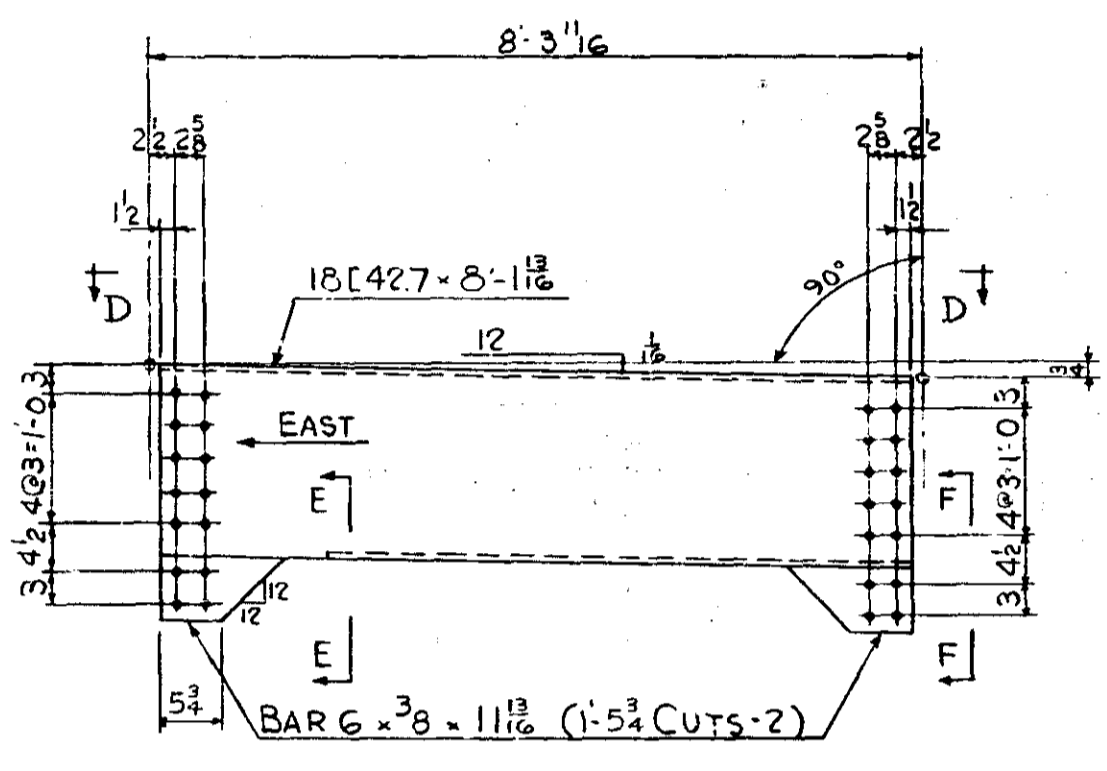
VIEW D-D



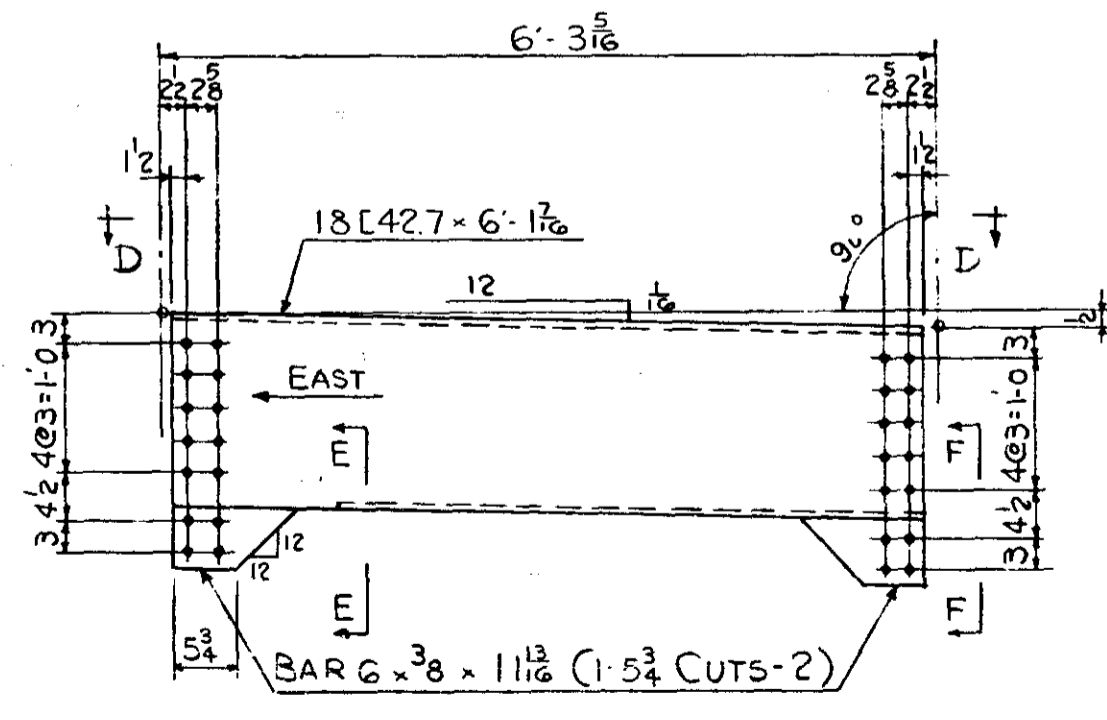
REQD -2- DIAPHRAGMS THUS D143



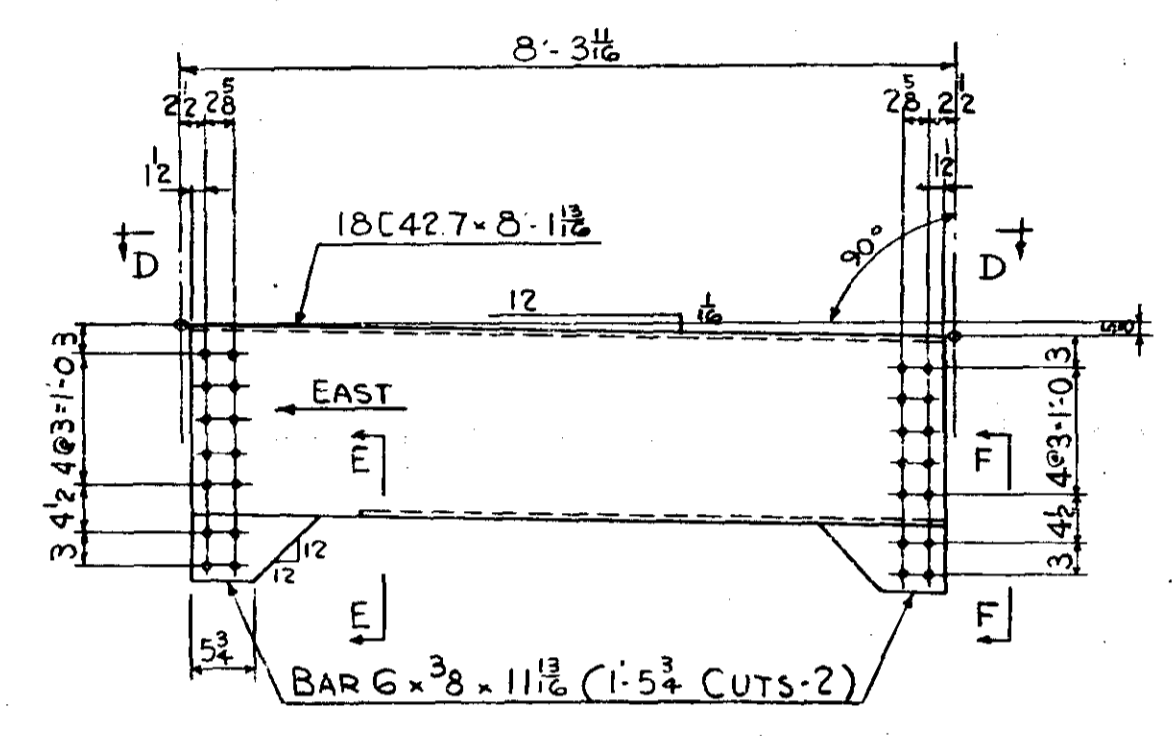
SECT. E-E
VIEW F-F



REQD -11- DIAPHRAGMS THUS D144



REQD -1- DIAPHRAM THUS D146

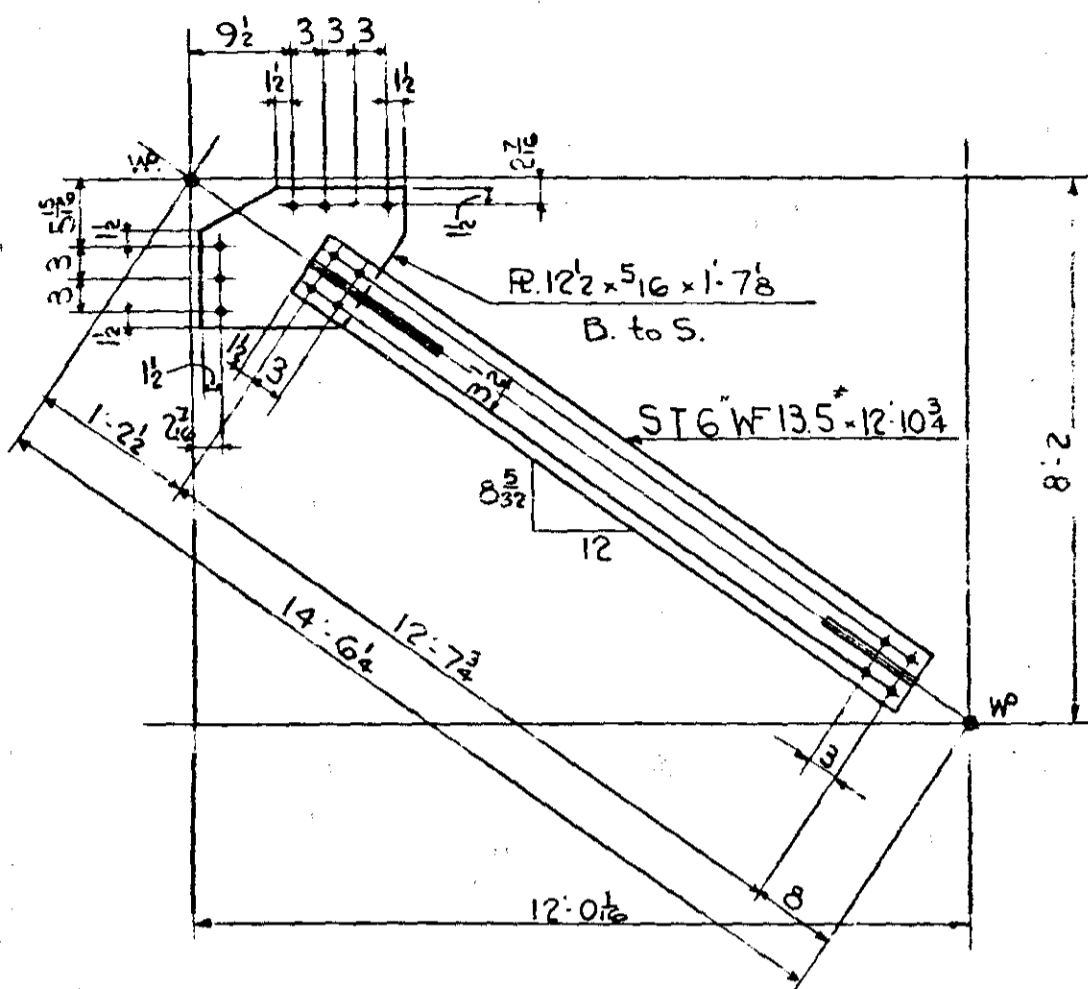


REQD -2- DIAPHRAGMS THUS D145

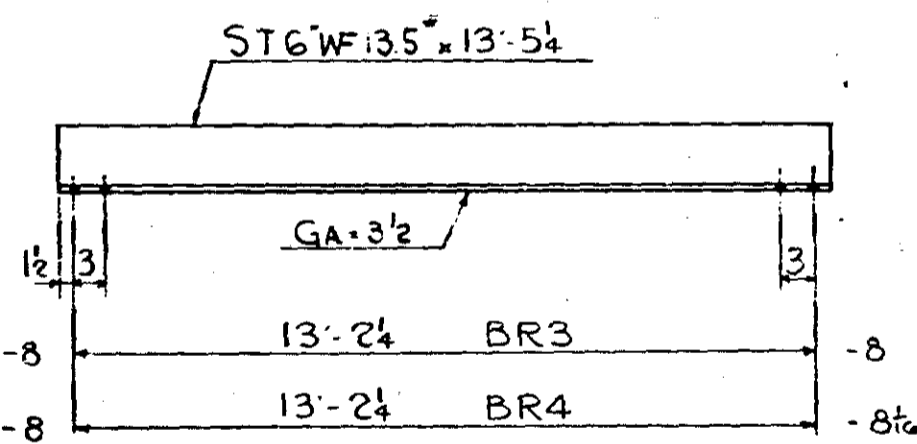
GENERAL NOTE SEE DRWG. #100

NO.	REVISION	Made by	Date

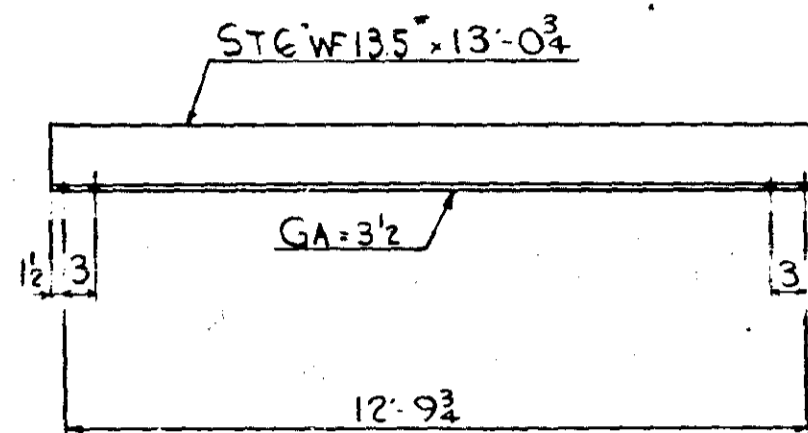
MINN. PROJ. NO. I-G 35W-3(50)112
 SP. NO. 2783-9340B (TH. 35W-394)
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.
DIAPHRAGM-DETAILS
 Structure M.H.D. No. 9340
 Location MPLS. MINN.
 Contractor INDUSTRIAL CONSTR. CO.
 Made by I.J. Checked by WES
 Date Shop 7-15-66
 ORDER NO. 32647 DRAWING NO. 156
 FORM 15-581



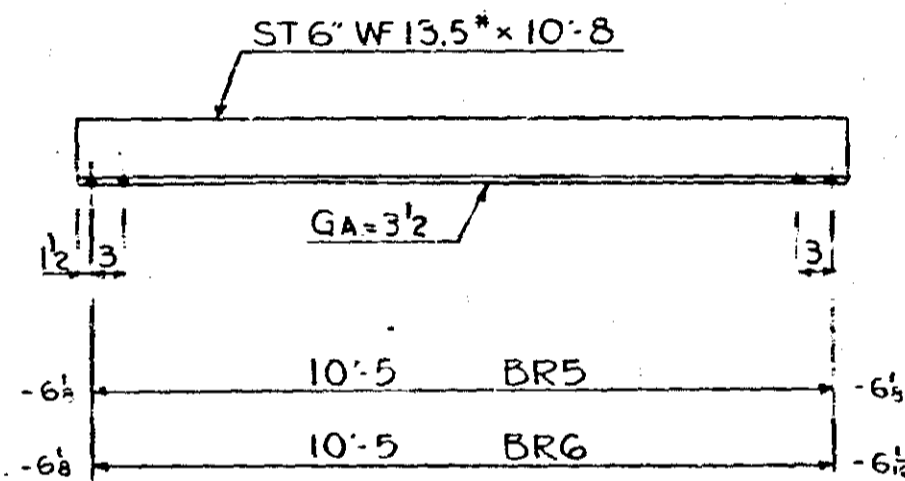
REQ'D-1-BRACING THUS BR 1
-1- REV BR 2



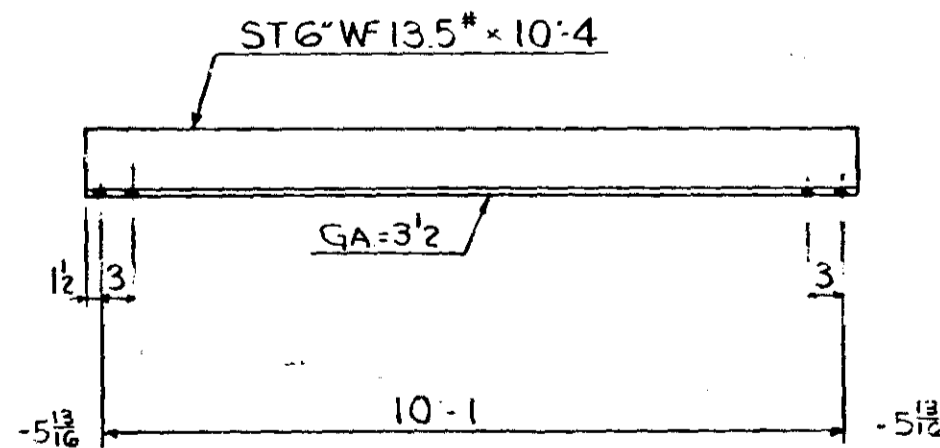
REQ'D-9-BRACINGS THUS MK BR 3
-3- " " " BR 4



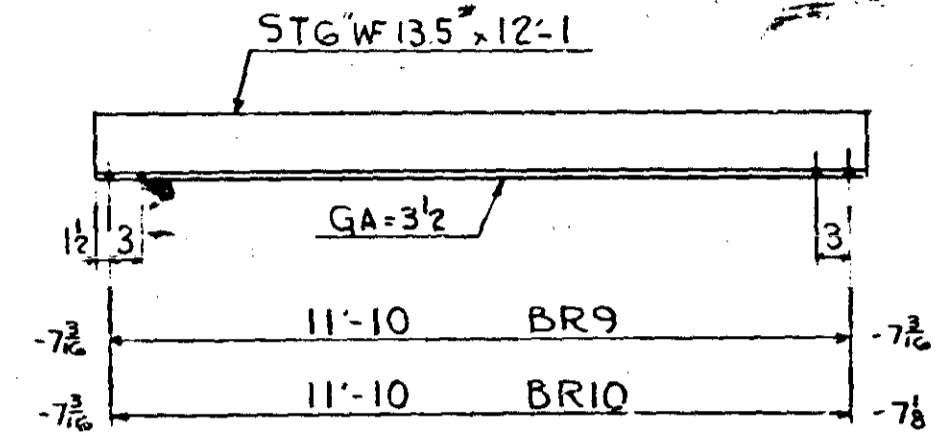
REQ'D-2-BRACINGS THUS MK BR 8



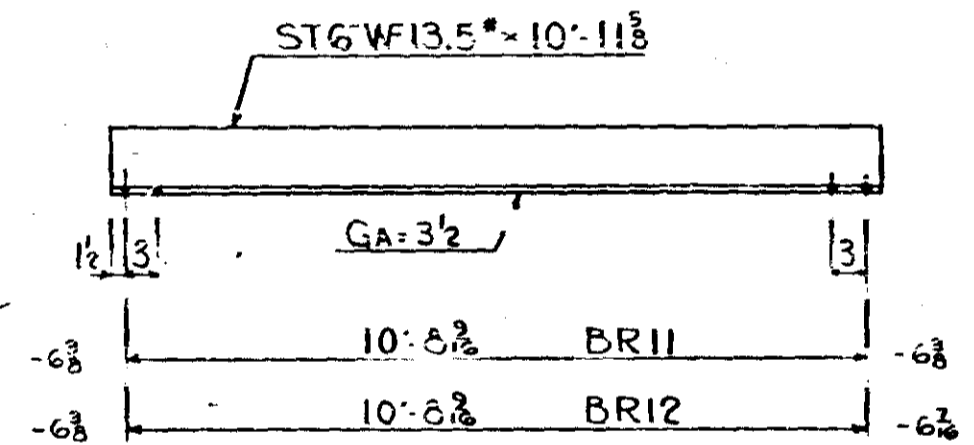
REQ'D-1-BRACING THUS BR 5
-1- " " BR 6



REQ'D-2-BRACING THUS BR 7



REQ'D-1-BRACING THUS MK BR 9
-1- " " " BR 10

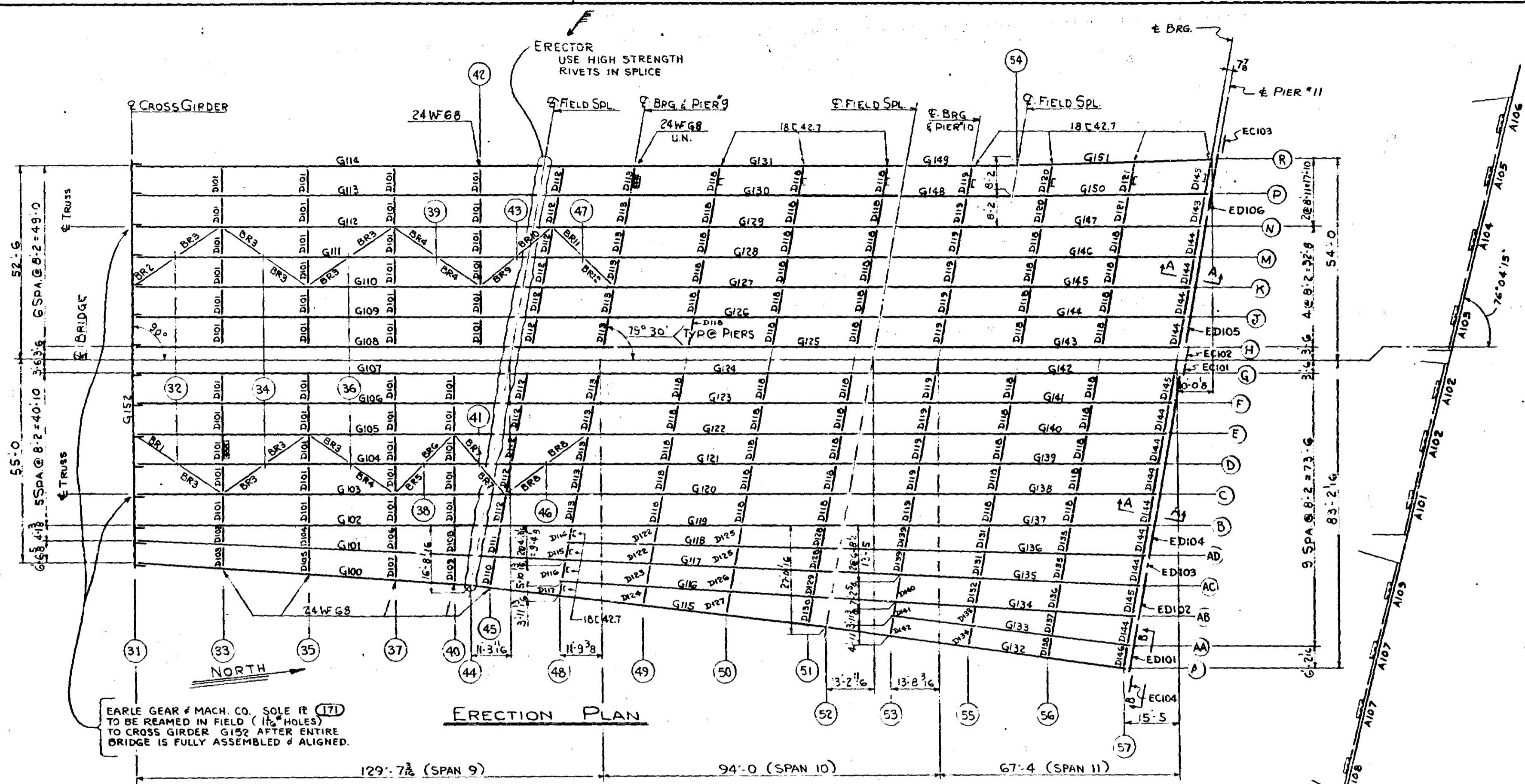


REQ'D-1-BRACING THUS BR 11
-1- " " BR 12

GENERAL NOTE SEE DRWG #100

MINN PROJ No. IIG 35W-3(58) 112	
SP No 2783-9340B (TH 35W-394)	
ST. PAUL FOUNDRY & MFG. CO.	
ST. PAUL, MINN.	
BRACING - DETAILS	
Structure M.H.D. NO 9340	
Location MPLS MINN.	
Contractor INDUSTRIAL CONSTR CO.	
Made by I I	Checked by WES
Date 9-15-66	Shop 9-15-66
ORDER NO 32647	DRAWING NO 157
FORM 15-581	

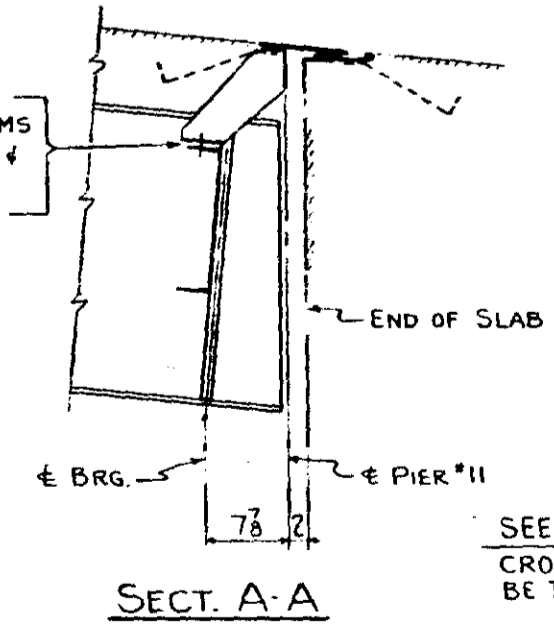
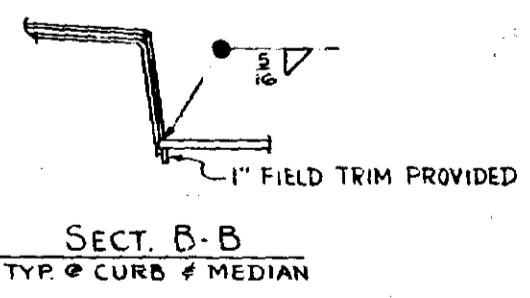
NO.	REVISION	Made by	Date



EARLE GEAR & MACH. CO. SOLE IT (171)
 TO BE REAMED IN FIELD (1/2" HOLES)
 TO CROSS GIRDER G152 AFTER ENTIRE
 BRIDGE IS FULLY ASSEMBLED & ALIGNED.

ERECTION PLAN

NORTH APPROACH DRWG. SCHEDULE	
DRWG. NO	DESCRIPTION
100E2	ERECTION PLAN
100E2P	BLOCKING DIAGRAM
100E	CAMBER DIAGRAMS
RA100, RA101, RA102 & RA103	X-RAY IDENTIFICATION
89 THRU 93	EXPANSION DEVICES
94 & 95	" CURBS
100 THRU 151	GIRDERS
152 & 153	CROSS GIRDER
154	DIAPHRAGMS
155	" # FIELD RIVET LIST
156	"
157	BRACING
EF101 & EF102	FIELD RIVET & BOLT LOCATION



SEE DRWG. E1 FOR NOTES
 CROSS GIRDER G152 SHALL
 BE TRULY VERTICAL

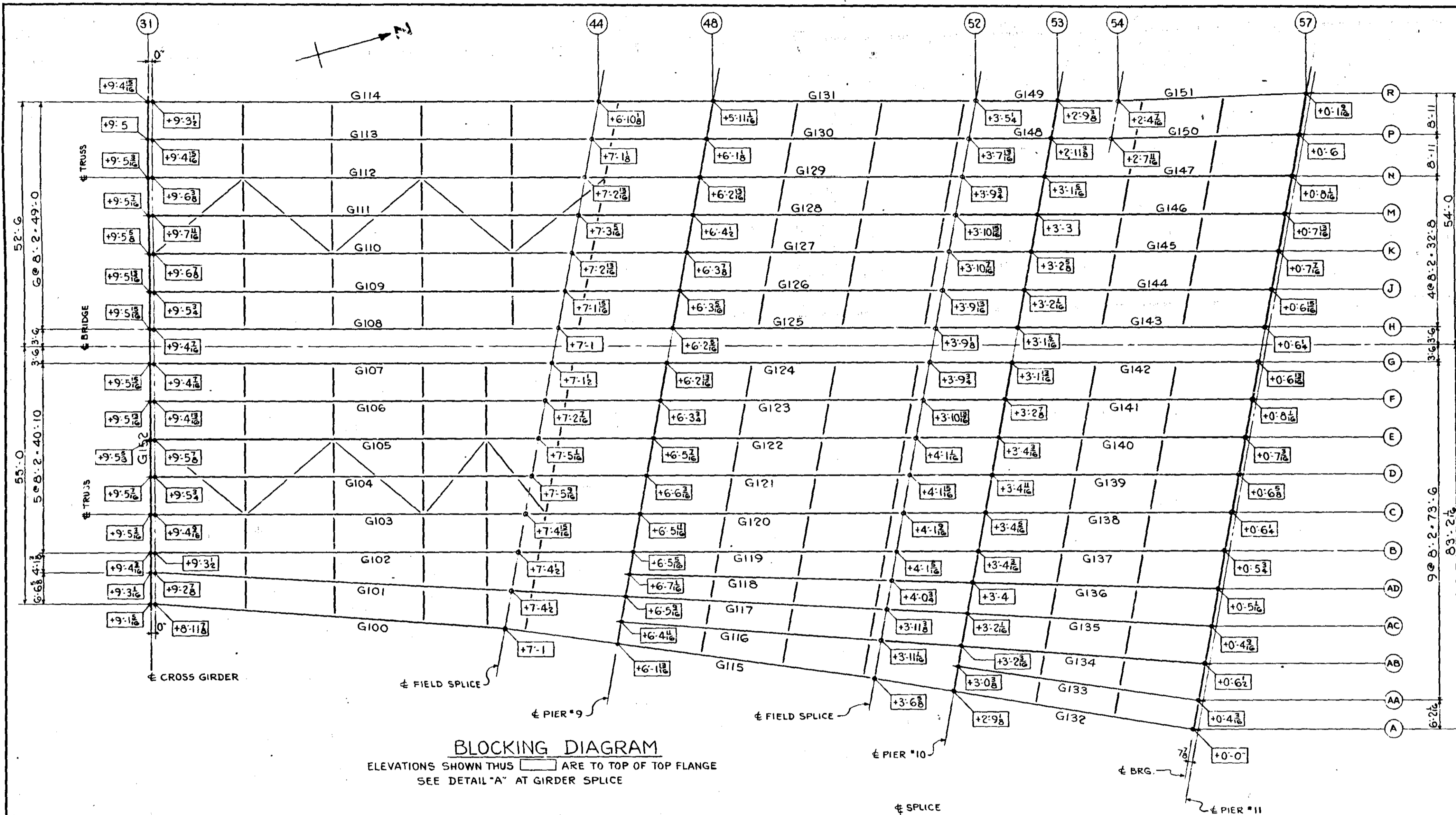
MICRO-FILMED

MINN PROJ NO I-IG 35W-3(38)112
 SP No 2783-9340B (TH.35W+394)

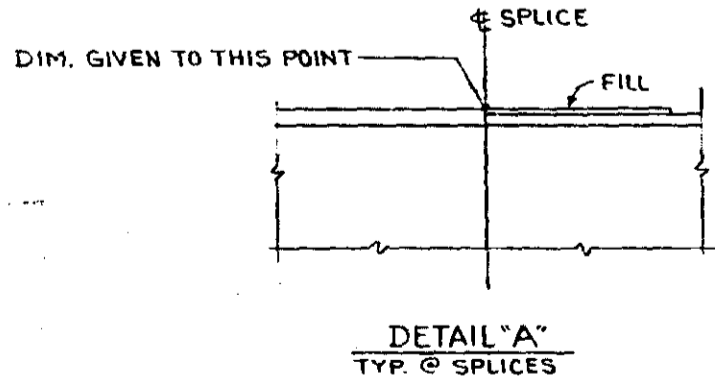
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

ERECTION PLAN OF NORTH APPROACH
 Structure M.H.D. No 9340
 Location MPLS MINN
 Contractor INDUSTRIAL CONSTR. CO.
 Made by I I Checked by WES
 Date _____ Shop _____
 ORDER NO. 32647 DRAWING NO. 100E2

NO	REVISION	DATE



BLOCKING DIAGRAM
 ELEVATIONS SHOWN THUS ARE TO TOP OF TOP FLANGE
 SEE DETAIL "A" AT GIRDER SPLICE

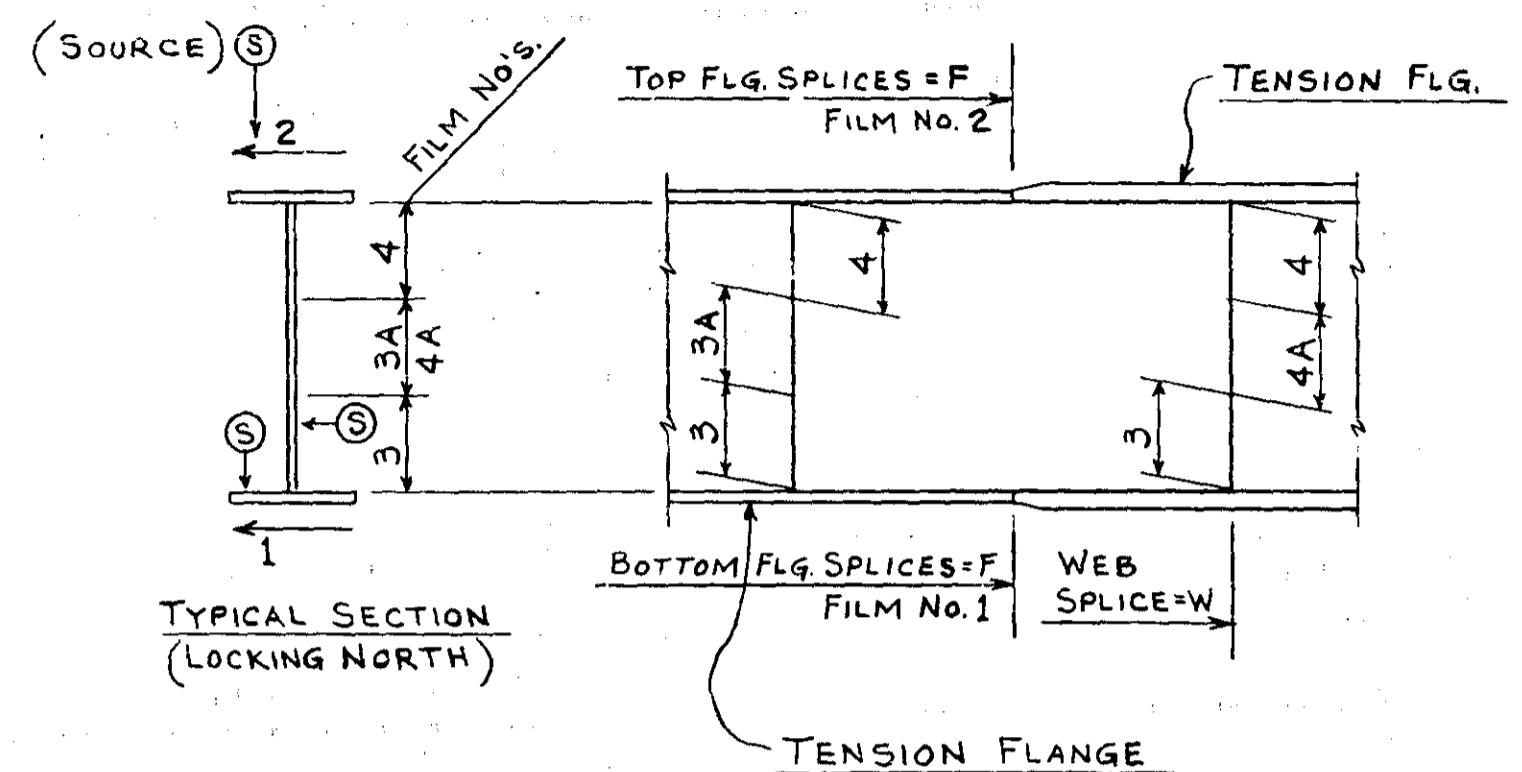
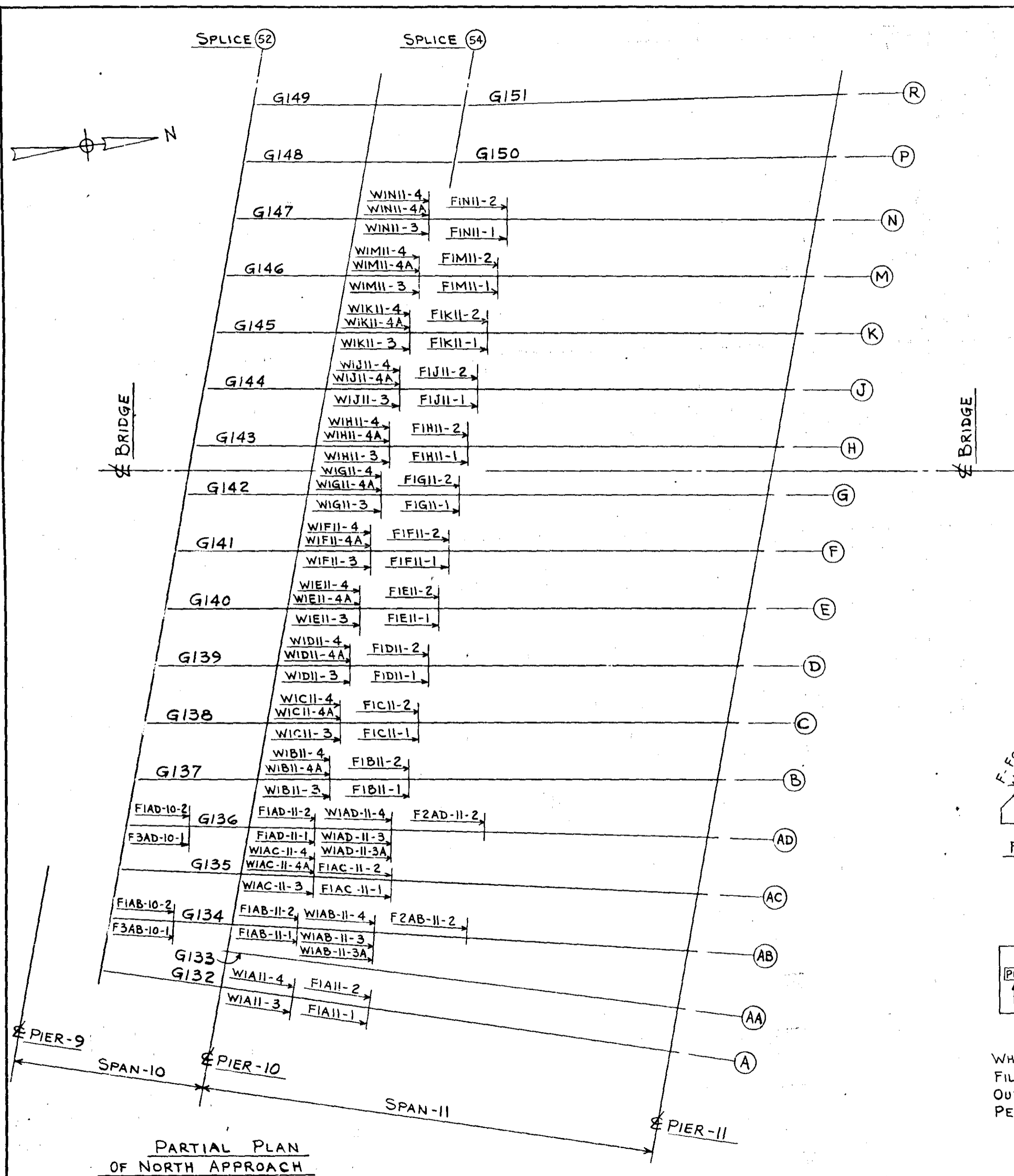


MICRO-FILMED

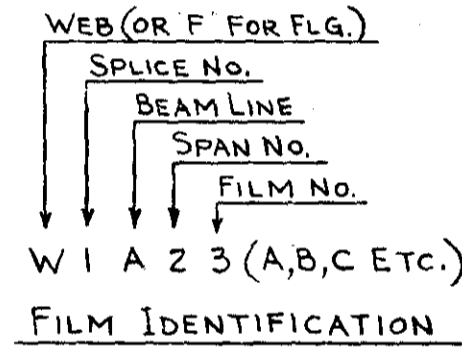
MINN. PROJ. N° I-IG 35W 3(58)112	
S.P. N° 2783-9340B (T.H. 35W-394)	
ST. PAUL FOUNDRY & MFG. CO. ST. PAUL, MINN.	
NORTH APPROACH BLOCKING DIAGRAM	
Structure M.H.D. BRIDGE N° 9340	
Location MPLS., MINN.	
Contractor INDUSTRIAL CONSTR. CO.	
Made by WES	Checked by SEW
Date	Shop
ORDER NO. 32647	DRAWING NO. 100E2P

NO.	REVISION	Made by	Date

FORM 15-5811

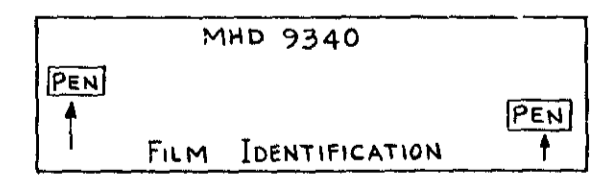
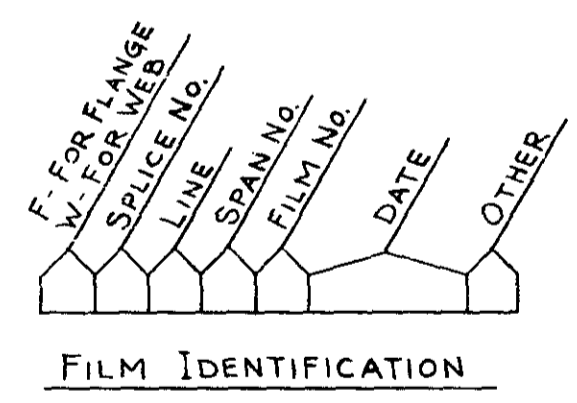


ELEVATION
100 PER CENT OF ALL BUTT WELDS SHALL BE EXAMINED BY RADIOGRAPHIC INSPECTION.



GENERAL NOTES

ALL FLANGE AND WEB BUTT WELDS SHALL BE RADIOGRAPHICALLY INSPECTED IN ACCORDANCE WITH M.H.D. SPECS. 2471.3J4d4.
100 PER CENT OF ALL BUTT WELDS SHALL BE EXAMINED BY RADIOGRAPHIC INSPECTION. SPLICES SHALL BE RADIOGRAPHED AS INDICATED IN SKETCHES OF SECTION AND ELEVATION. ONE INCH (1") LAP TO BE USED BETWEEN TWO FILMS. APPROXIMATE FILM LENGTH = 17"
ALL ARROWS ON RADIOGRAPHIC FILM SHALL POINT NORTH.
FILM NUMBERS AT EACH WELD MUST BEGIN BY USING THE NUMBER WITHOUT A SUFFIX (FOR EXAMPLE -3) AND WHERE MORE FILMS ARE USED THE NUMBERS SHALL BE SUFFIXED WITH A,B,C, ETC. IN ORDER.



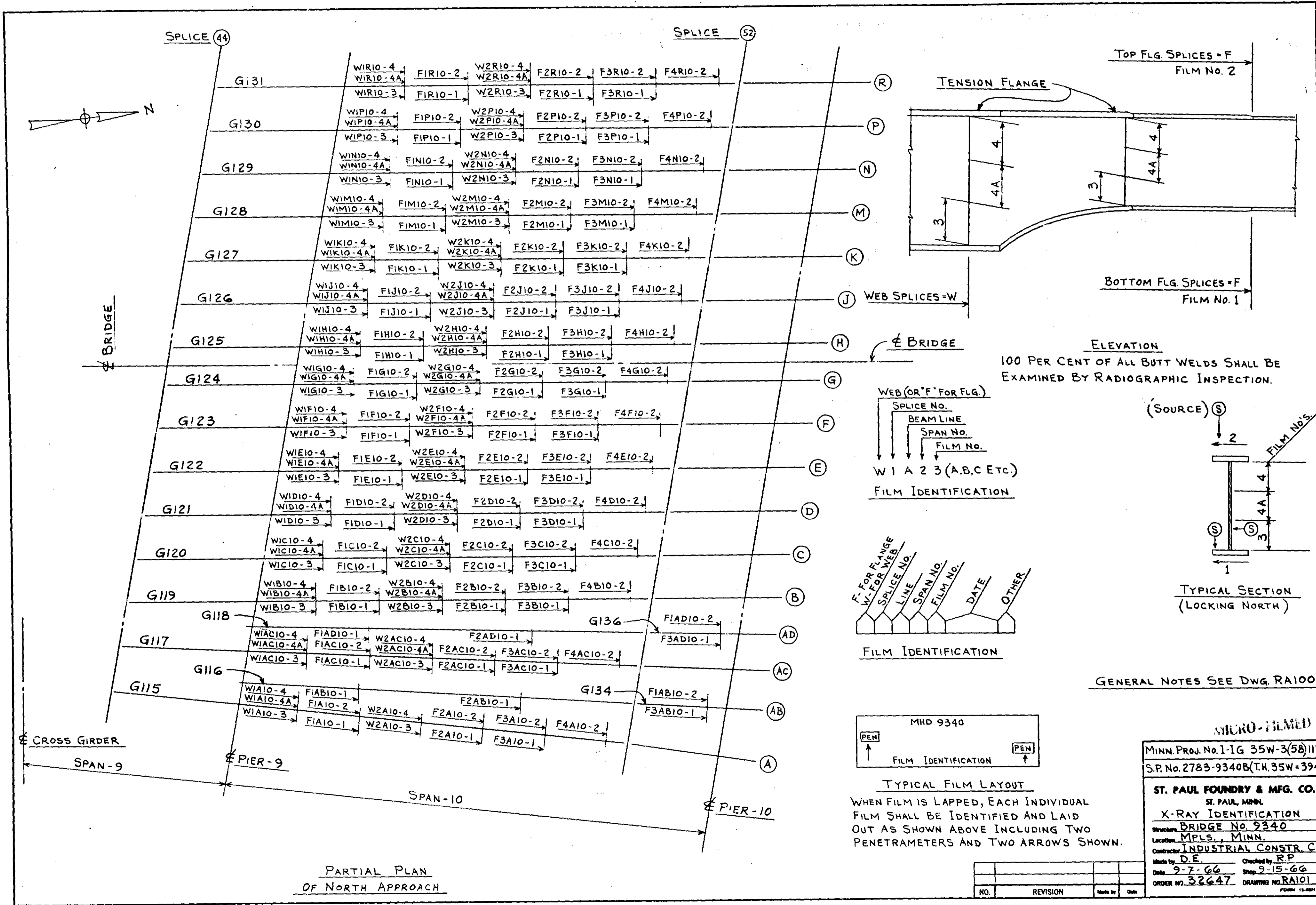
WHEN FILM IS LAPPED, EACH INDIVIDUAL FILM SHALL BE IDENTIFIED AND LAID OUT AS SHOWN ABOVE INCLUDING TWO PENETRIMETERS AND TWO ARROWS SHOWN.

MICRO-FILMS

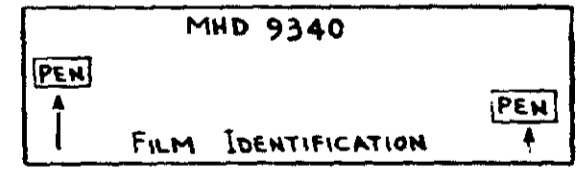
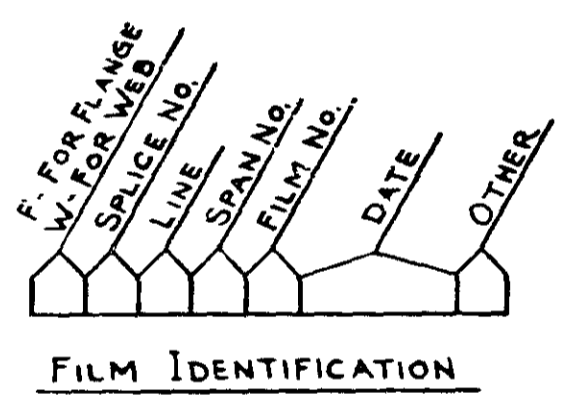
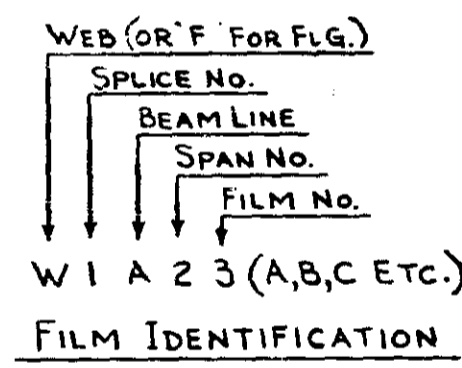
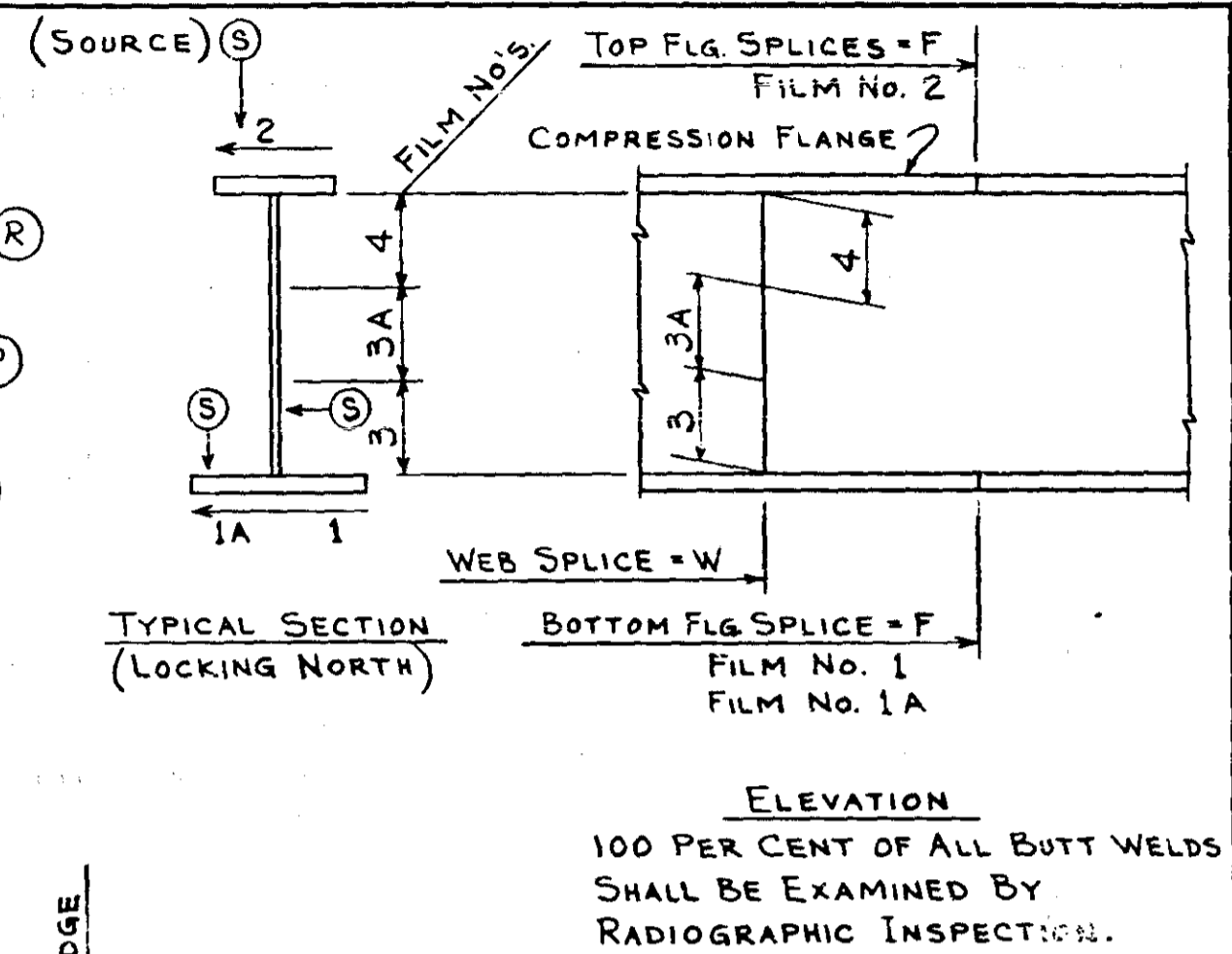
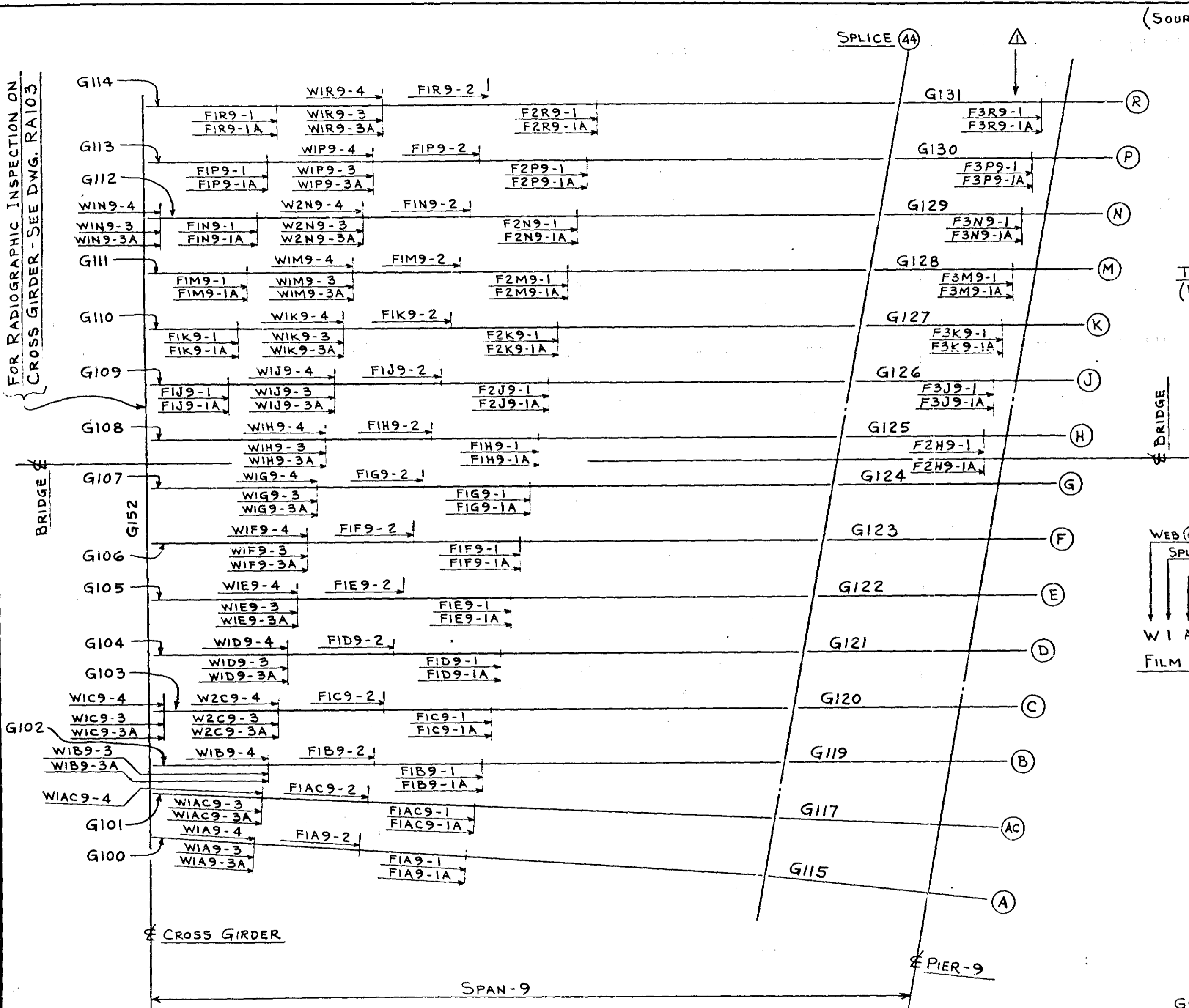
MINN. PROJ. NO. I-IG 35W-3(58)112
S.P. NO. 2783-9340B (TH. 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.
X-RAY IDENTIFICATION
Structure: BRIDGE No. 9340
Location: MPLS., MINN.
Contractor: INDUSTRIAL CONSTR. CO.
Made by: D.E. Checked by: RP
Date: 9-1-66 Shop: 9-15-66
ORDER NO. 32647 DRAWING NO. RA100
FORM 15-6511

NO.	REVISION	Made by	Date



FOR RADIOGRAPHIC INSPECTION ON
CROSS GIRDER - SEE DWG. RA103



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

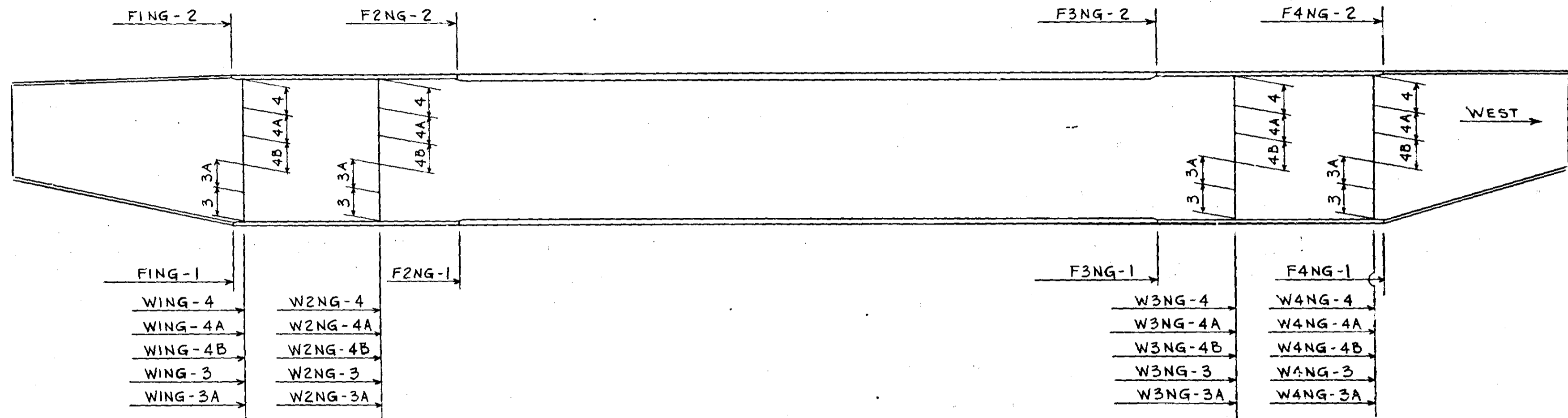
GENERAL NOTES SEE DWG. RA100

MINN. PROJ. No. I-IG 35W-3(5B)112
S.P. No. 2783-9340B (TH. 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.
X-RAY IDENTIFICATION
Structure: BRIDGE No. 9340
Location: MPLS., MINN.
Contractor: INDUSTRIAL CONSTR. CO.
Made by: D.E. Checked by: R.P.
Date: 9-14-66 Shop: 9-20-66
ORDER NO. 32647 DRAWING NO. RA102

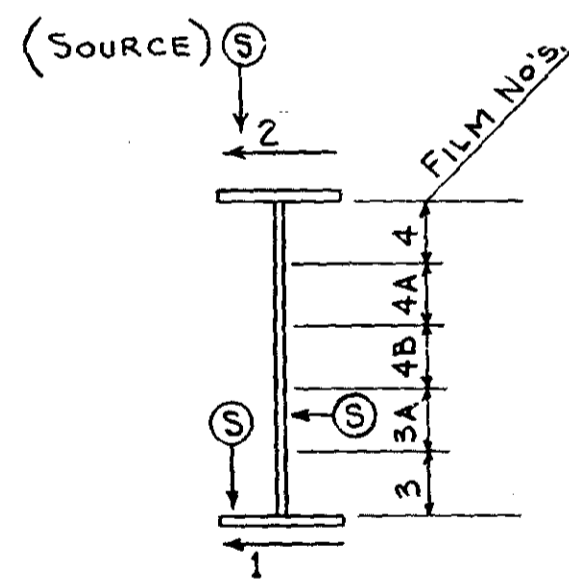
NO.	REVISION	Made by	Date
Δ	G125 THRU G131	D.E.	10-18

FORM 10-5811



ELEVATION OF CROSS GIRDER G152 (NORTH APPROACH)

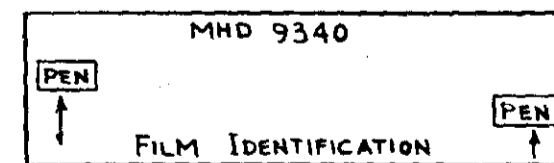
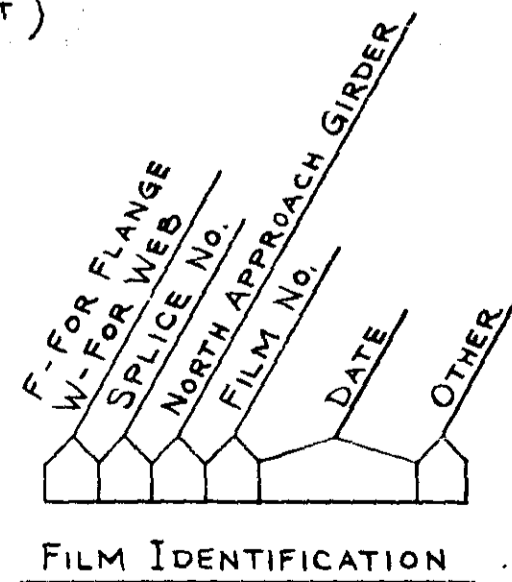
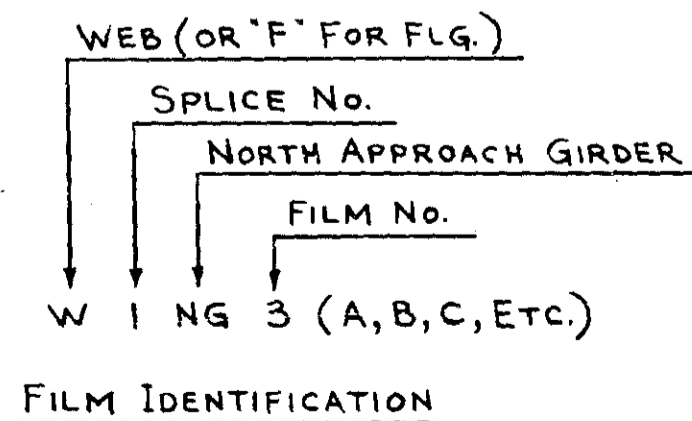
100 PER CENT OF ALL BUTT WELDS SHALL BE EXAMINED BY RADIOGRAPHIC INSPECTION.



TYPICAL SECTION (LOCKING WEST)

GENERAL NOTES

- ALL FLANGE AND WEB BUTT WELDS SHALL BE RADIOGRAPHICALLY INSPECTED IN ACCORDANCE WITH M.H.D. SPECS. 2471.3J4d4
- 100 PER CENT OF ALL BUTT WELDS SHALL BE EXAMINED BY RADIOGRAPHIC INSPECTION.
- SPLICES SHALL BE RADIOGRAPHED AS INDICATED IN SKETCHES OF SECTION AND ELEVATION.
- ONE INCH (1") LAP TO BE USED BETWEEN TWO FILMS. APPROXIMATE FILM LENGTH = 17"
- ALL ARROWS ON RADIOGRAPHIC FILM SHALL POINT WEST.
- FILM NUMBERS AT EACH WELD MUST BEGIN BY USING THE NUMBER WITHOUT A SUFFIX (FOR EXAMPLE - 3) AND WHERE MORE FILMS ARE USED THE NUMBERS SHALL BE SUFFIXED WITH A,B,C, ETC. IN ORDER.

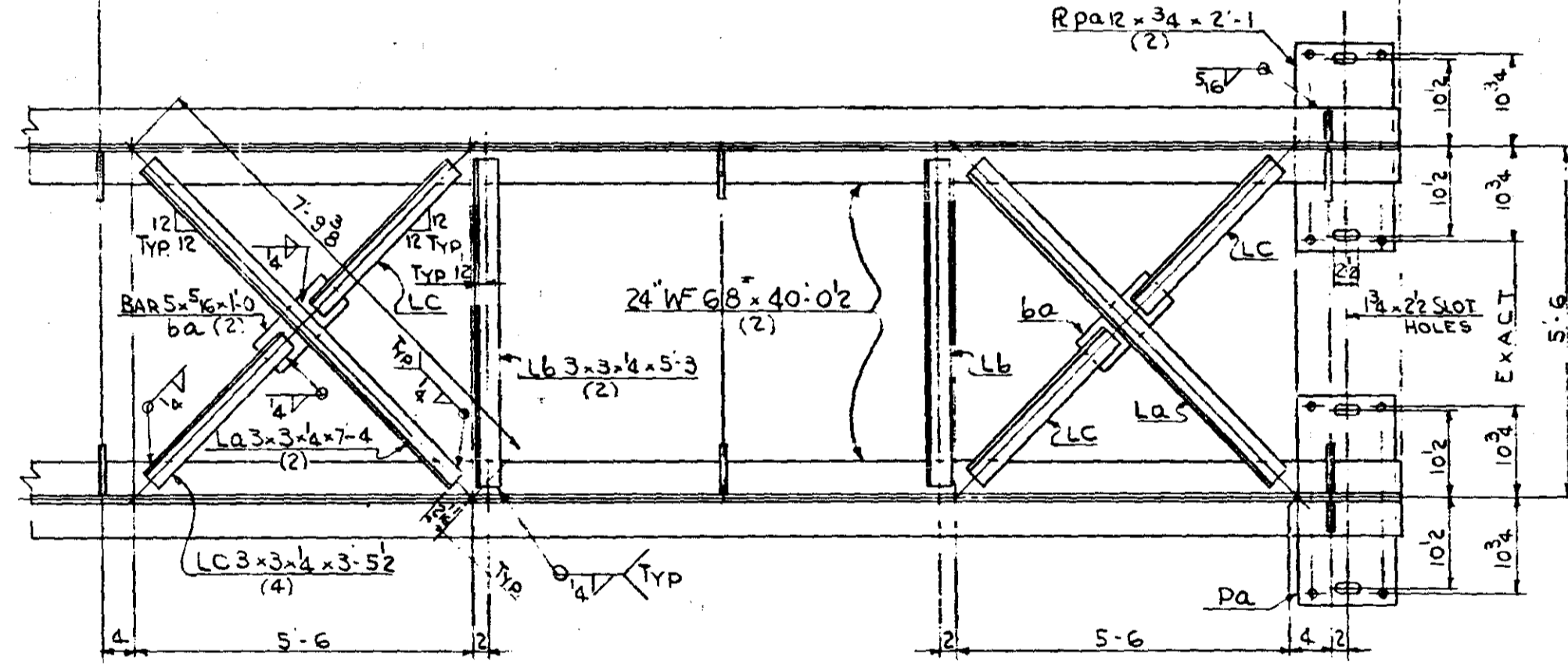
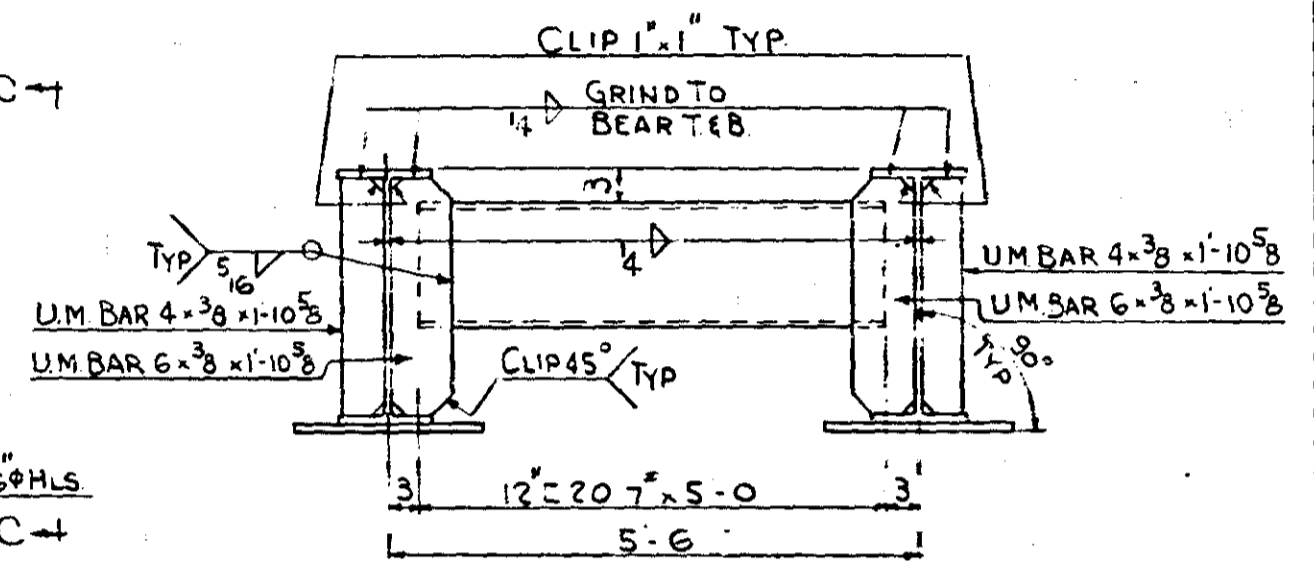
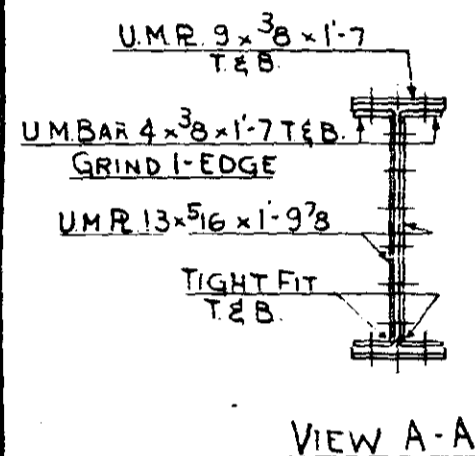
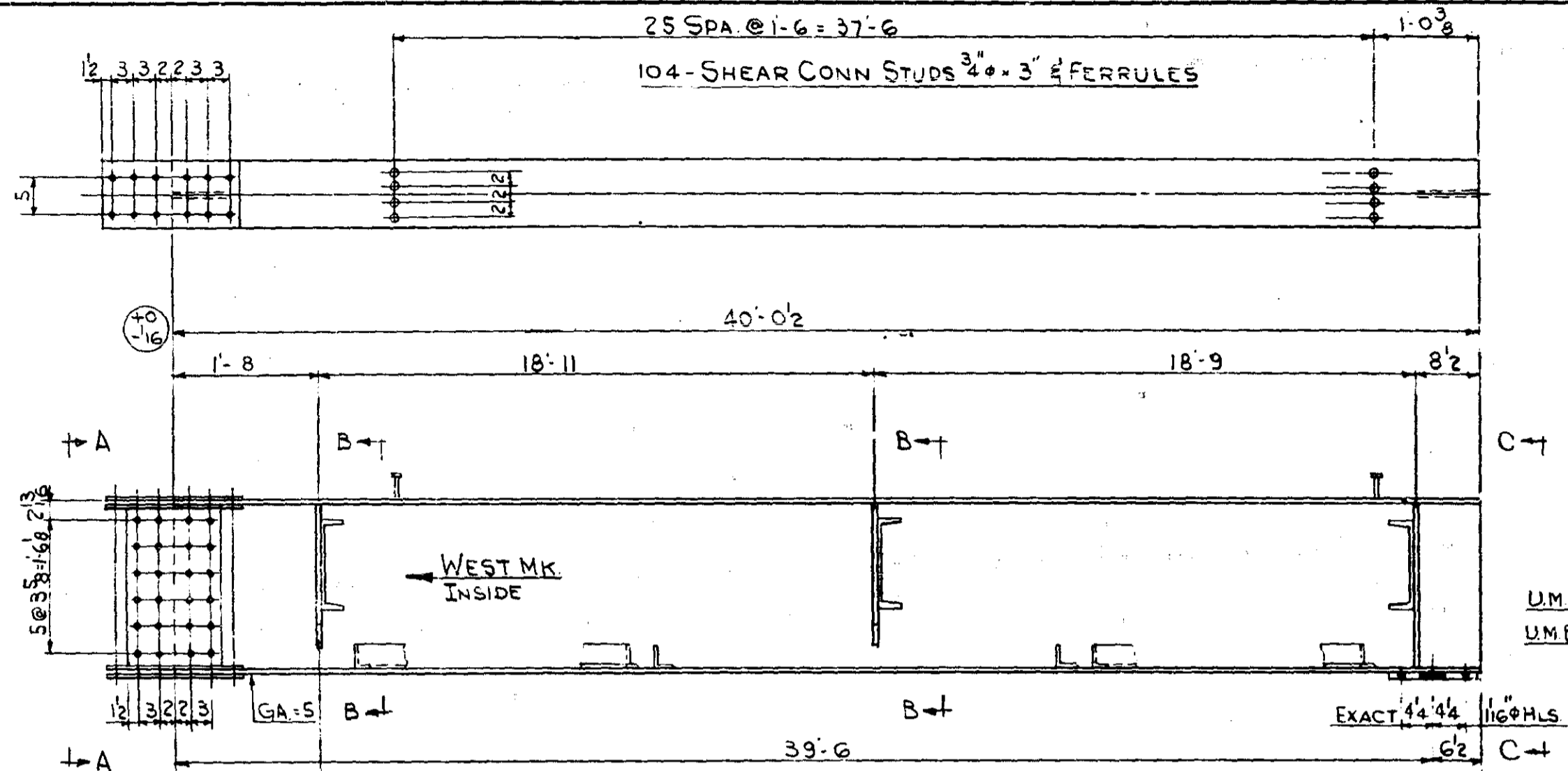


TYPICAL FILM LAYOUT

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

MINN. PROJ. NO. 1-IG 35W-3(58)112	
S.P. NO. 2783-9340B(T.H. 35W-394)	
ST. PAUL FOUNDRY & MFG. CO.	
ST. PAUL, MINN.	
X-RAY IDENTIFICATION	
Structure	BRIDGE No. 9340
Location	MPLS., MINN.
Contractor	INDUSTRIAL CONSTR. CO.
Made by	D.E.
Checked by	RP
Date	9-16-66
Shop	9-20-66
ORDER NO.	32647
DRAWING NO.	RA103
FORM 12-59H	

NO.	REVISION	Made by	Date



VIEW C-C

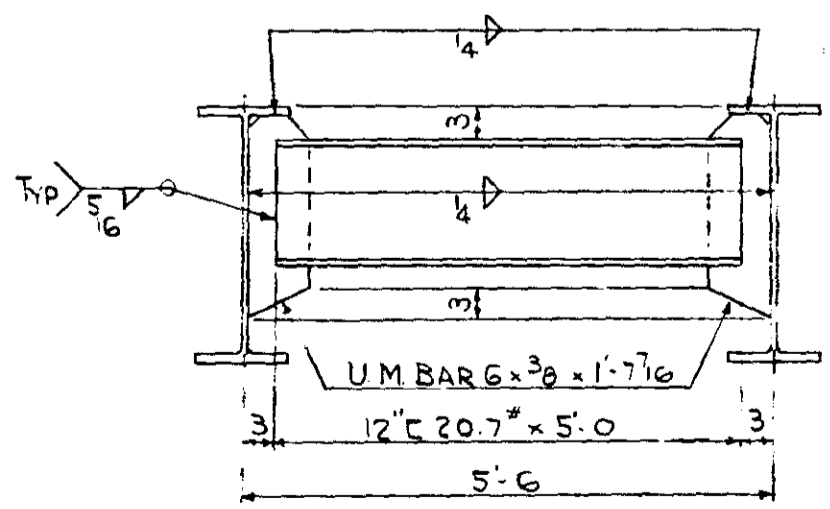
GRID LIST	GRID	LEN
Top FLG SPL	1/6	2 3/4
BOTT -	5/6	2 3/4
WEB SPL	1/6	2 1/4

BOLTS AS PER M.H.D. 3391 B STYLE II

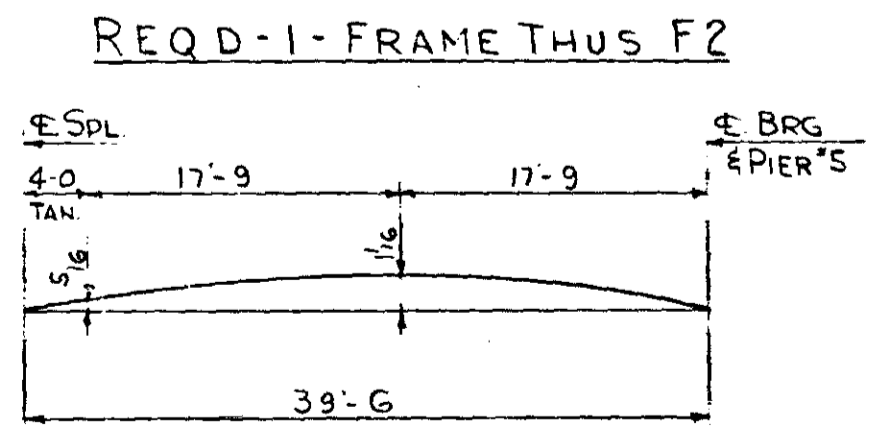
- 55 - H.H.S. B 7/8" x 2 1/2"
- 55 - " 8" x 2 3/4"

- 110 - CARB WASHERS 7/8"
- 30 - McLEAN FOGG LOCK
- NUTS NO. 1 - 7/8"
- BOTT FLG SPL

GENERAL NOTE SEE DWG #3



SECT B-B



CAMBER DIAGRAM

MICRO-FILMED

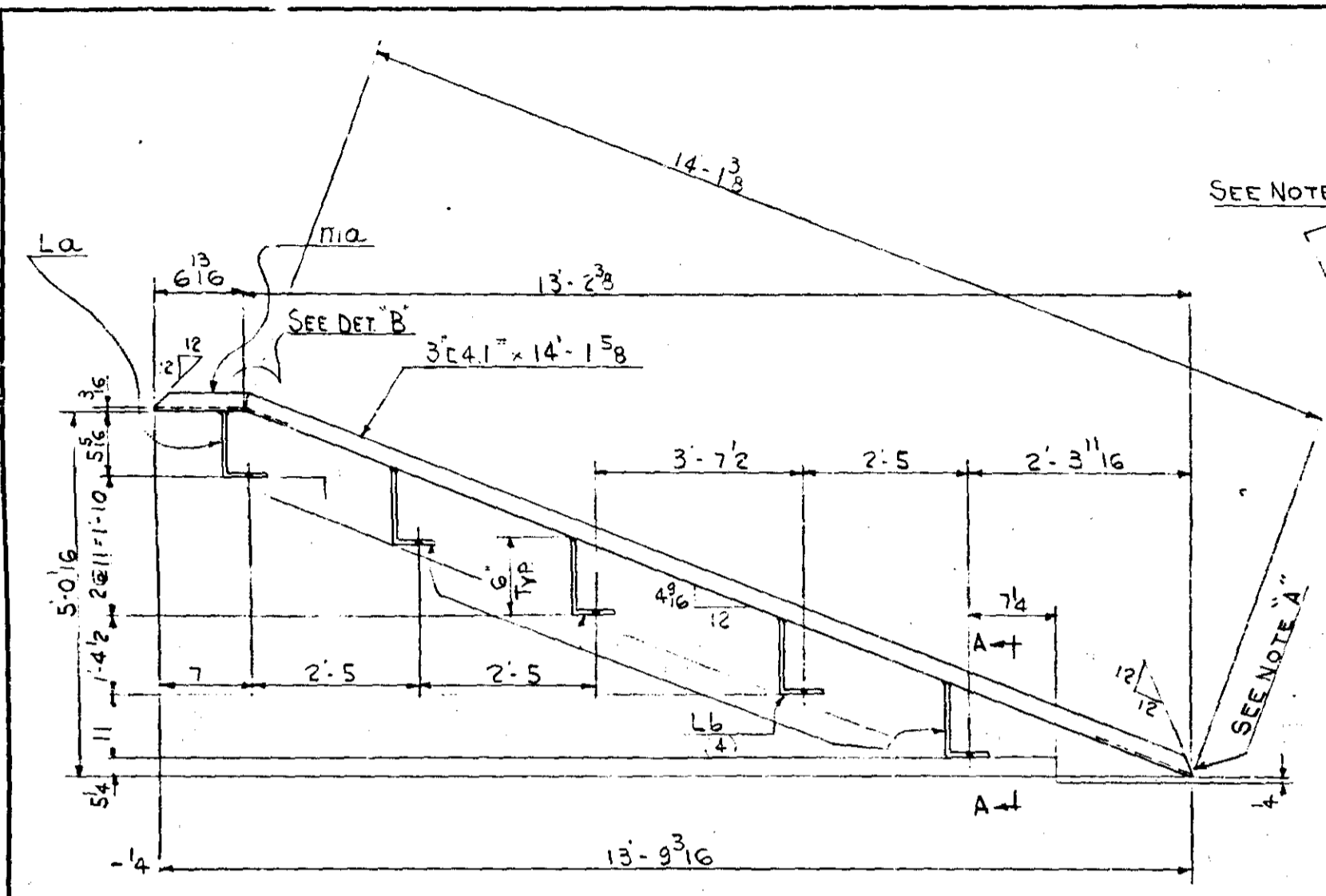
MINN PROJ NO STATE FUNDS
 STATE PROJ NO 0205-02017(47)156

ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.

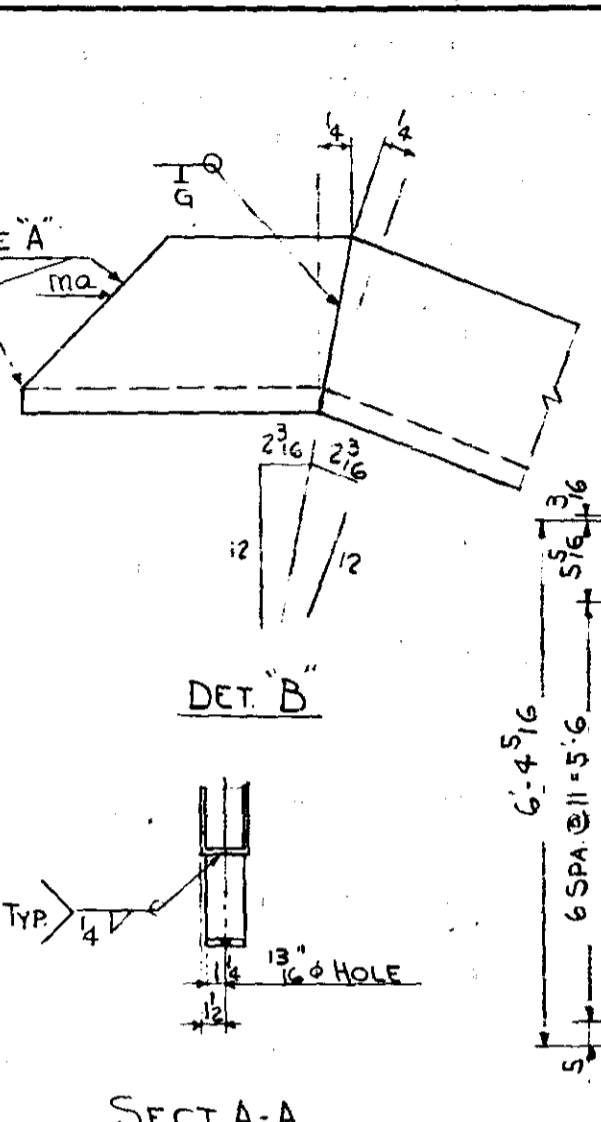
FRAME - DETAILS
 Structure M.H.D. NO. 02017
 Location COLUMBIA HEIGHTS, MINN.
 Contractor SHEEHY BRIDGE CONSTR CO
 Made by I.I. Checked by [Signature]
 Date _____ Shop _____
 ORDER NO. 33274 DRAWING NO. 4

NO.	REVISION	Made by	Date

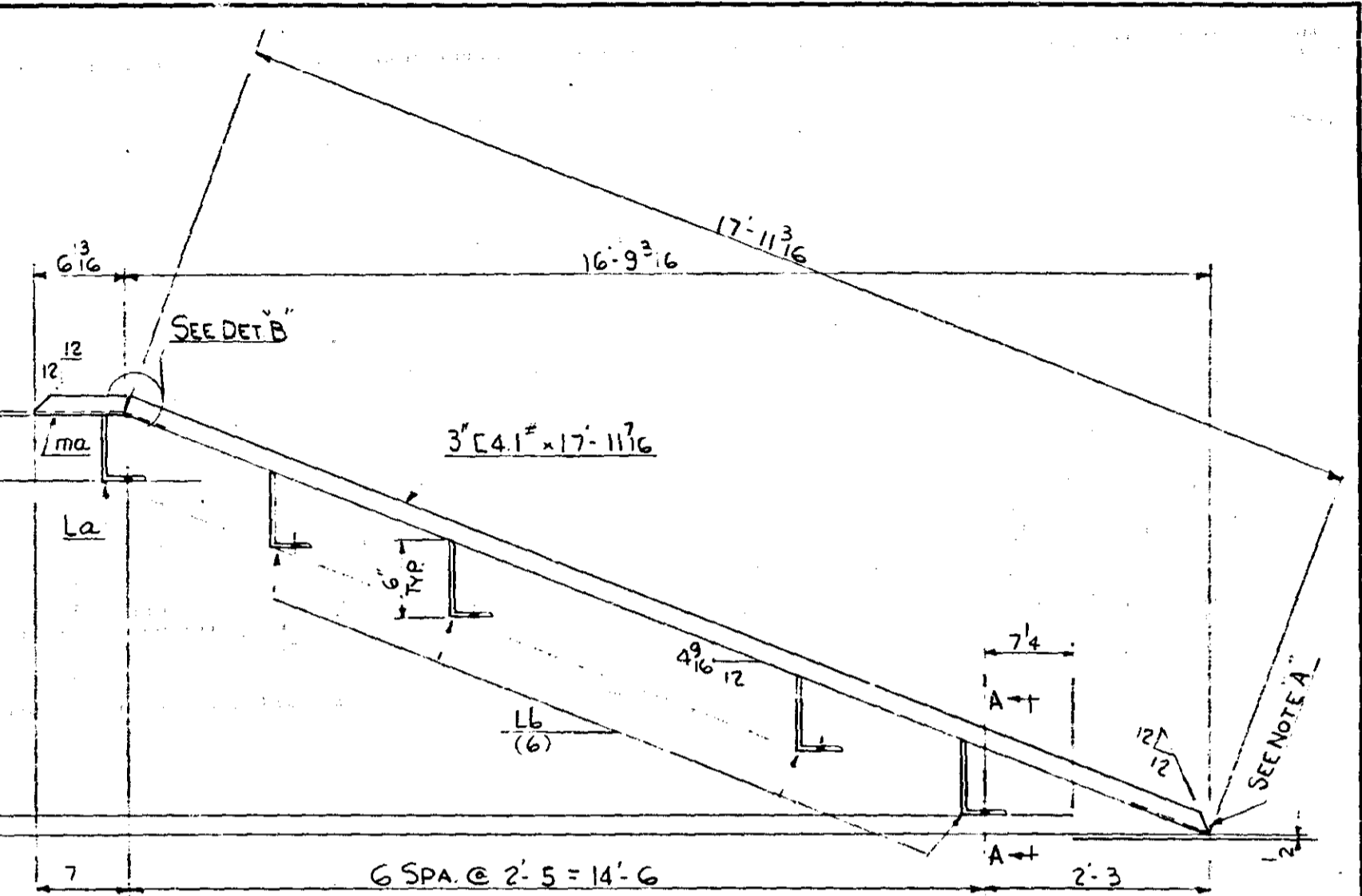
FORM 13-554



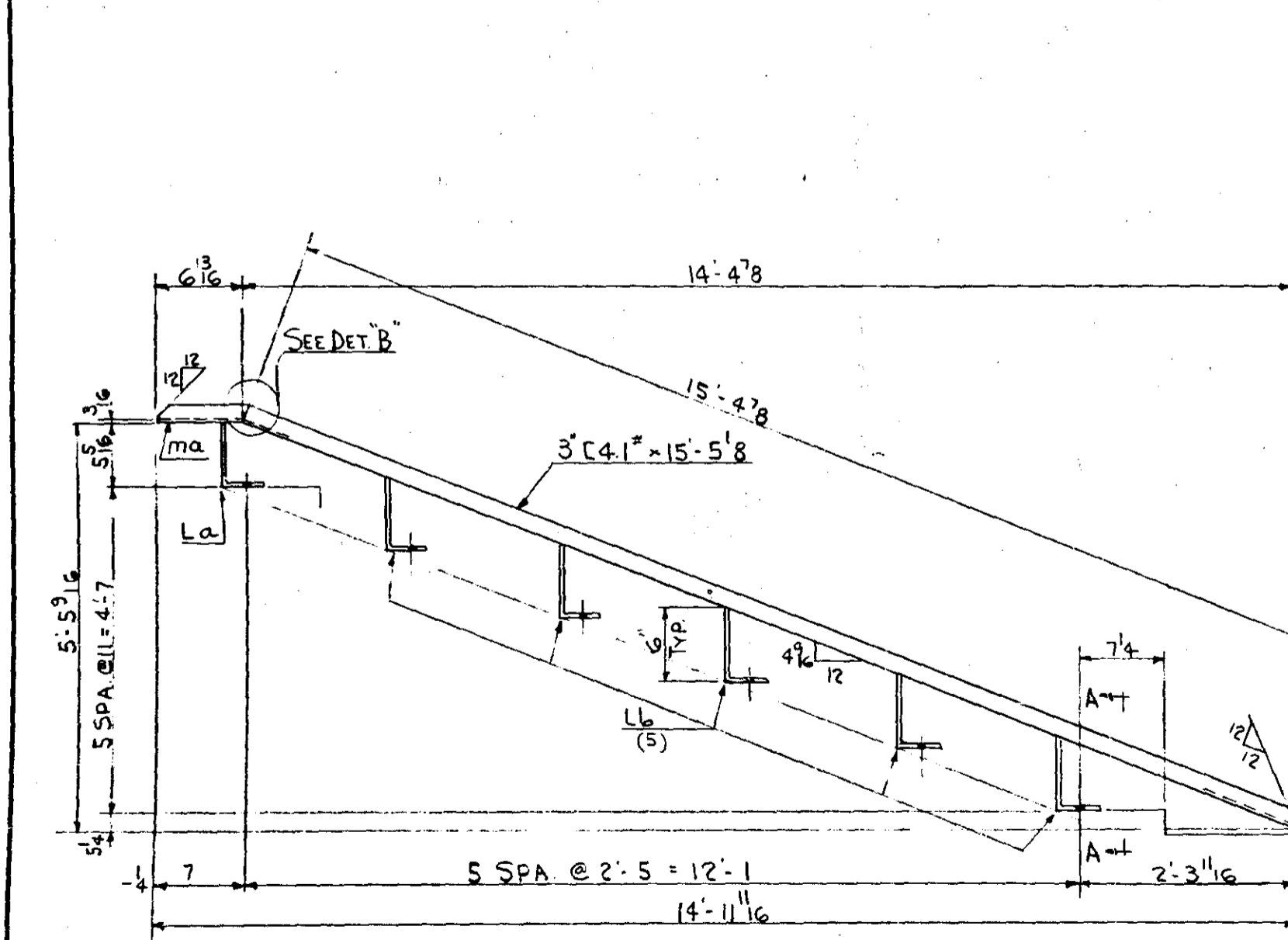
REQ'D-1-BICYCLE RAMP THUS R2



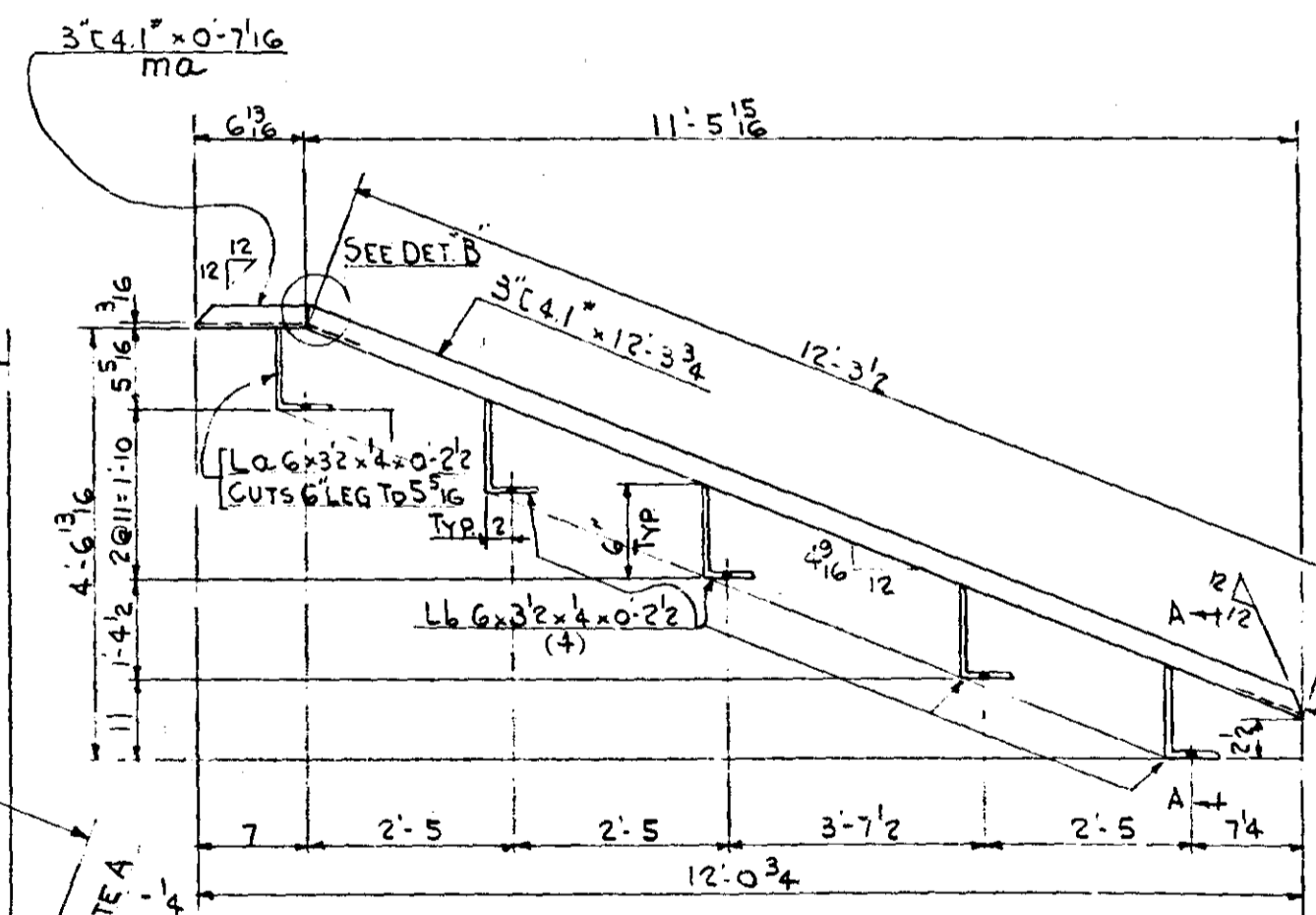
SECTION A-A



REQ'D-1-BICYCLE RAMP THUS R4



REQ'D-1-BICYCLE RAMP THUS R3



REQ'D-1-BICYCLE RAMP THUS R1

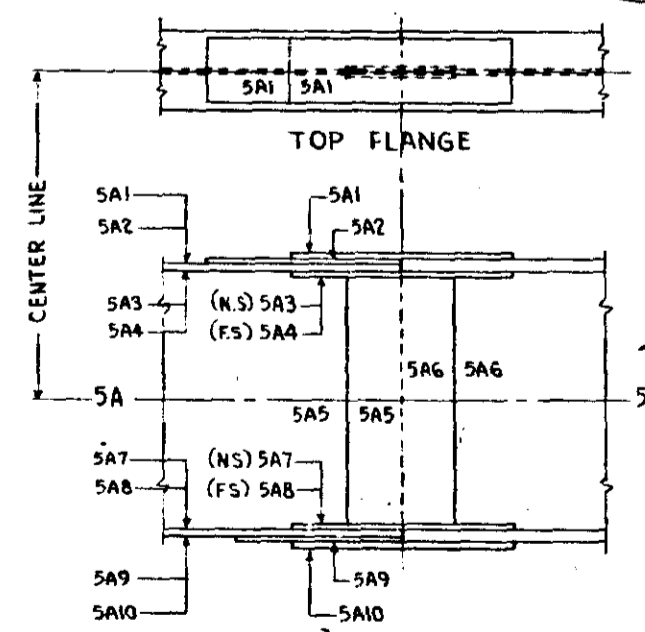
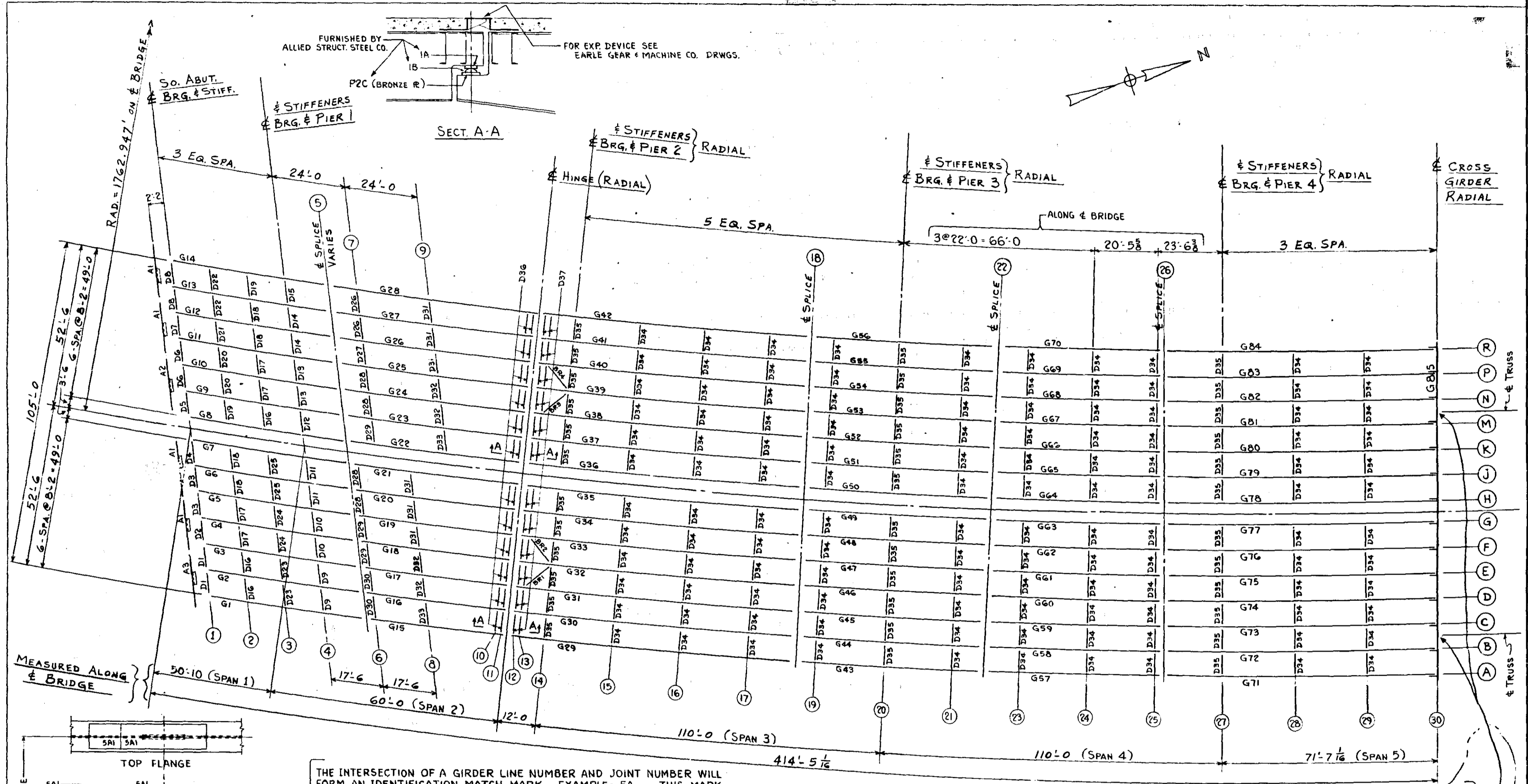
GENERAL NOTE
 HOLES 1 3/16" Ø
 ALL STEEL TO BE AS PER M.H.D. 3306
 FOR FLAME CUTTING SEE M.H.D. SPECS. 2471.3C4.
 EDGE FINISH AS PER M.H.D. 2471.3C3E 2471.3D4
 GALVANIZE AFTER FABRICATION AS PER M.H.D. 3394.
 MAT'L & SHOP WORK AS PER M.H.D. SPECS. DATED 1-1-64
 AS AMENDED BY SUPPLEMENTAL SPECIFICATIONS
 DATED FEB. 1, 1966 & SPECIAL PROVISIONS SHALL APPLY.
 SHOP INSPECTION BY M.H.D. BEFORE & AFTER GALV.

NOTE "A"
 ROUND EDGES OF C @ END

MICRO-FIL MET

MINN. PROJ. NO. STATE FUNDS	
STATE PROJ. NO. 0205-02017(47-156)	
ST. PAUL FOUNDRY & MFG. CO. ST. PAUL, MINN.	
BICYCLE RAMP - DETAILS	
Structure M.H.D. No. 02017	
Location COLUMBIA HEIGHTS, MINN.	
Contractor SHEEHY BRIDGE CONSTR. CO.	
Made by I.J.	Checked by J.P.
Date	Shop
ORDER NO. 33274	DRAWING NO. 5

NO.	REVISION	Made by	Date



THE INTERSECTION OF A GIRDER LINE NUMBER AND JOINT NUMBER WILL FORM AN IDENTIFICATION MATCH MARK. EXAMPLE; 5A. THIS MARK WILL BE PLACED ON THE ENDS OF GIRDERS AT THE SPLICES. ALL SPLICE MATERIAL WILL BE MARKED WITH THE IDENTIFICATION MATCH MARK PLUS A DIFFERENT SUFFIX NUMERAL FOR EACH INDIVIDUAL PIECE OF SPLICE MATERIAL. EXAMPLE; 5A2. CORRESPONDING MARKS ALSO WILL BE AFFIXED ON THE GIRDERS. THE MARKS MUST BE POSITIONED TO PREVENT INTERCHANGE OR ROTATION OF THE SPLICE MATERIAL. MATCH MARKS SHALL BE PLACED ON THE OUTSIDE FACE OF THE SPLICE MATERIAL WITH MARKS OPPOSITE EACH OTHER IN AN OFF-CENTER OF PLATE POSITION AND SHALL BE CLEARLY MADE WITH 1/2" SIZE STEEL NUMBERING DIES. ENCIRCLE ALL MATCH MARKS WITH PAINT, FOR THE PURPOSE OF READILY LOCATING THE MARKS.

SHOP NOTE
 FULL ASSEMBLY REAMING WILL BE REQD. PER M.H.D. 2471.3E1d. ALL HOLES SHALL BE SUBPUNCHED OR SUBDRILLED 1/16" & REAMED TO 1/16" (UNLESS NOTED) IN THE ASSEMBLED POSITION. CROSS GIRDER G85 SHALL BE TRULY VERTICAL.

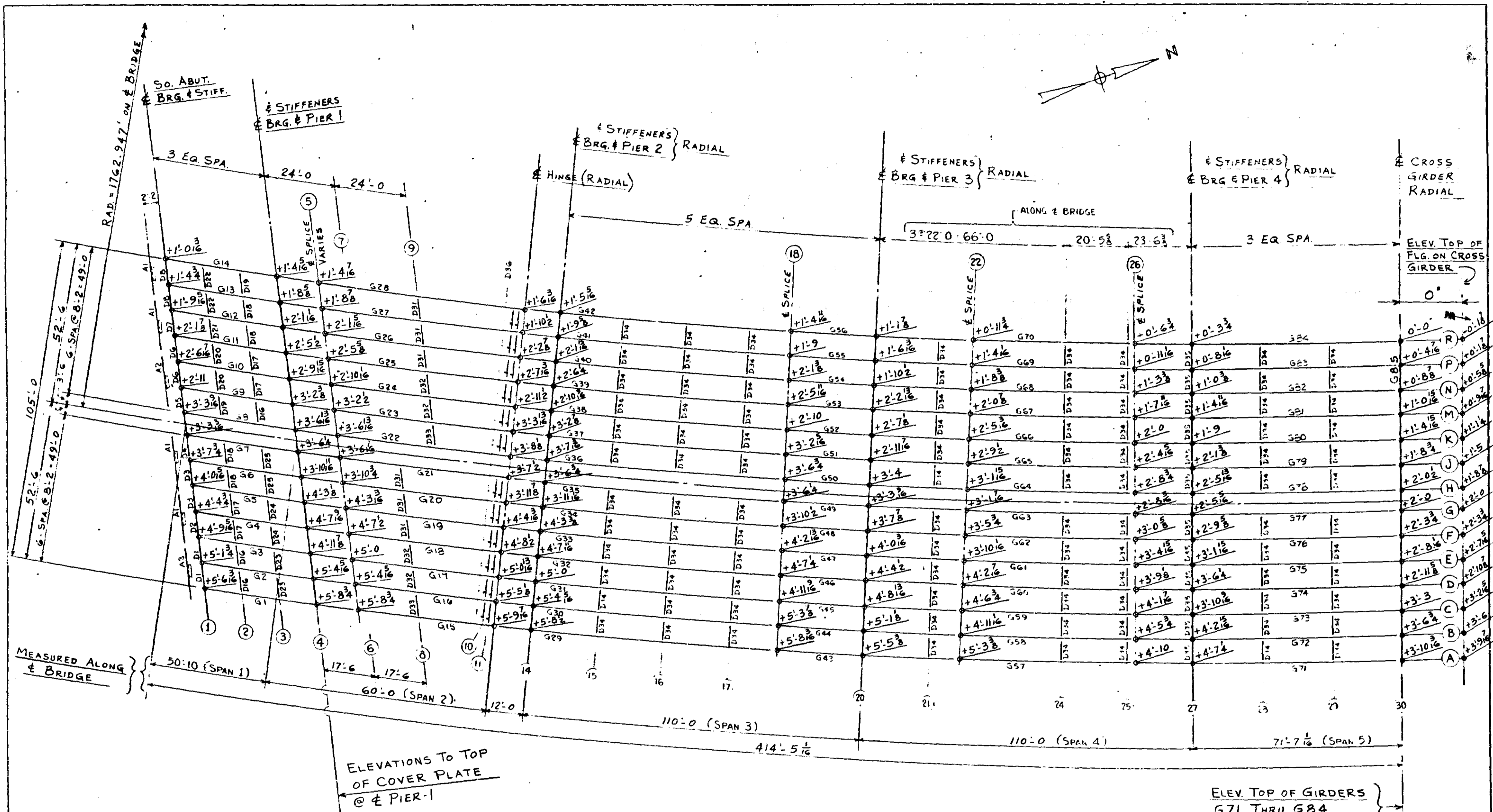
FIELD CONNECTIONS
 7/8" RIVETS EXCEPT AS NOTED. HIGH STRENGTH RIVETS SHALL CONFORM TO M.H.D. 331G, TYPE IV. ALL OTHER RIVETS SHALL CONFORM TO M.H.D. 331G, TYPE I. 7/8" HIGH STRENGTH BOLTS MAY BE USED IN LIEU OF RIVETS AT ACUTE ANGLE DIAPHRAGM CONNECTIONS (SPAN 1 & 2) AND FOR ALL FIELD SPLICES EXCEPT WHERE HIGH STRENGTH RIVETS ARE CALLED FOR. HIGH STRENGTH BOLTS SHALL BE M.H.D. 3391B-STYLE II. McLEAN FOGG LOCK NUTS SHALL BE USED ON THE LOWER FLANGE OF THE FIELD SPLICES.

ERECTORS NOTE:
 NO FIELD COATS OF PAINT SHALL BE APPLIED WITHIN FOUR (4) INCHES OF FIELD RIVET OR FIELD WELD AREAS UNTIL AFTER FIELD RIVETING OR FIELD WELDING ON THAT MEMBER ARE COMPLETED. SEE SPECIAL PROVISIONS, SECTION SB41, PAGE SB41.

EARLE GEAR & MACH. CO. SOLE R (171) TO BE REAMED IN FIELD (1/2" HOLES) TO CROSS GIRDER G85 AFTER ENTIRE BRIDGE IS FULLY ASSEMBLED & ALIGNED.

MINN. PROJ. NO. I-IG 35W-3(58)112
 S.P.N. NO. 2783-9340B (T.H. 35W-394)
ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.
 PLAN OF SOUTH APPROACH
 Structure BRIDGE No. 9340
 Location MPLS., MINN.
 Contractor INDUSTRIAL CONSTR. CO.
 Made by D.F. & WES. Checked by RP
 Date 6-17-66 Shop 6-17-66
 ORDER NO. 32647 DRAWING NO. E1

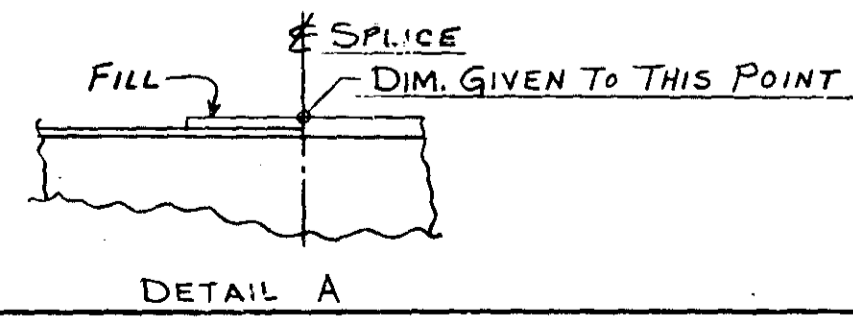
NO.	REVISION	Made by	Date
		RP	6-29



SOUTH APPROACH DWG. SCHEDULE

DWG. NO.	DESCRIPTION
E1	ERECTION PLAN
E1P	BLOCKING DIAGRAM
E	CAMBER DIAGRAMS
1 TO 84	BEAM & GIRDER DETAILS
85 & 85A	CROSS GIRDER DETAIL
86 & 87	DIAPH'S & FIELD RIVETS • BOLTS
88	PROTECTION ANGLE & RAIL CONN.
RA1 & RA2	X-RAY IDENTIFICATION
EF1, EF2, & EF3	FIELD RIVET • BOLT LOCATION

BLOCKING DIAGRAM
 ELEVATIONS ARE TO TOP OF TOP FLANGE OF BEAMS AND GIRDERS U.N.
 SEE DETAIL A FOR GIRDER SPLICE

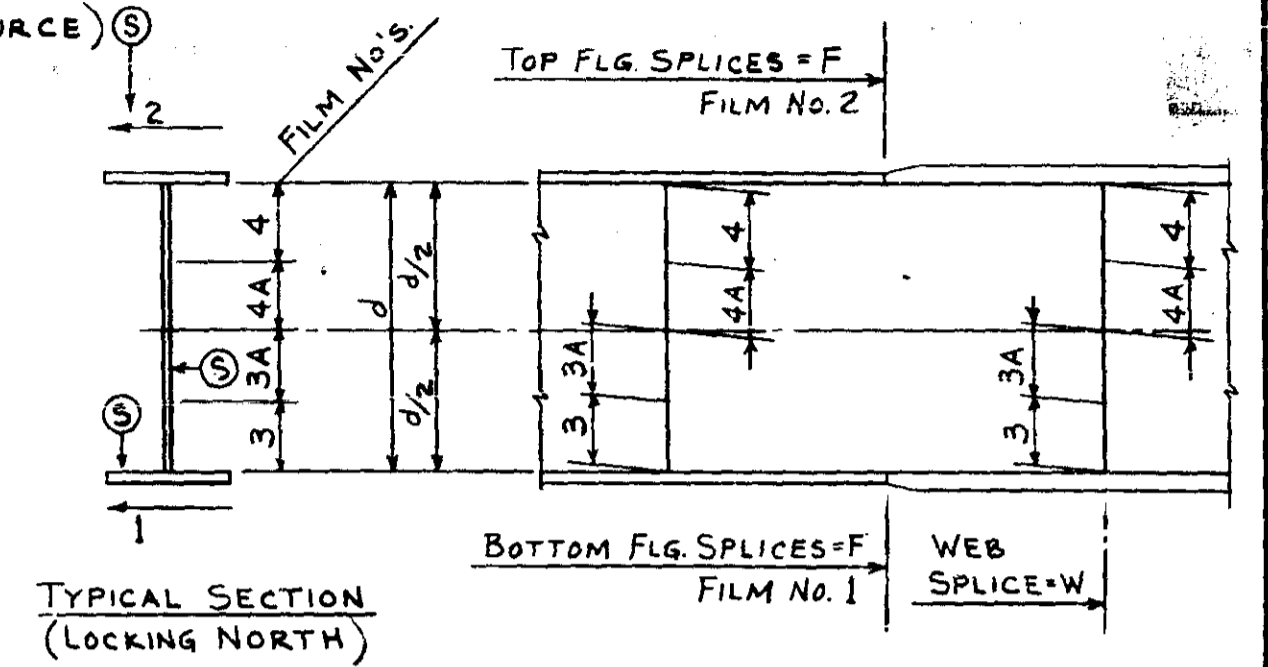
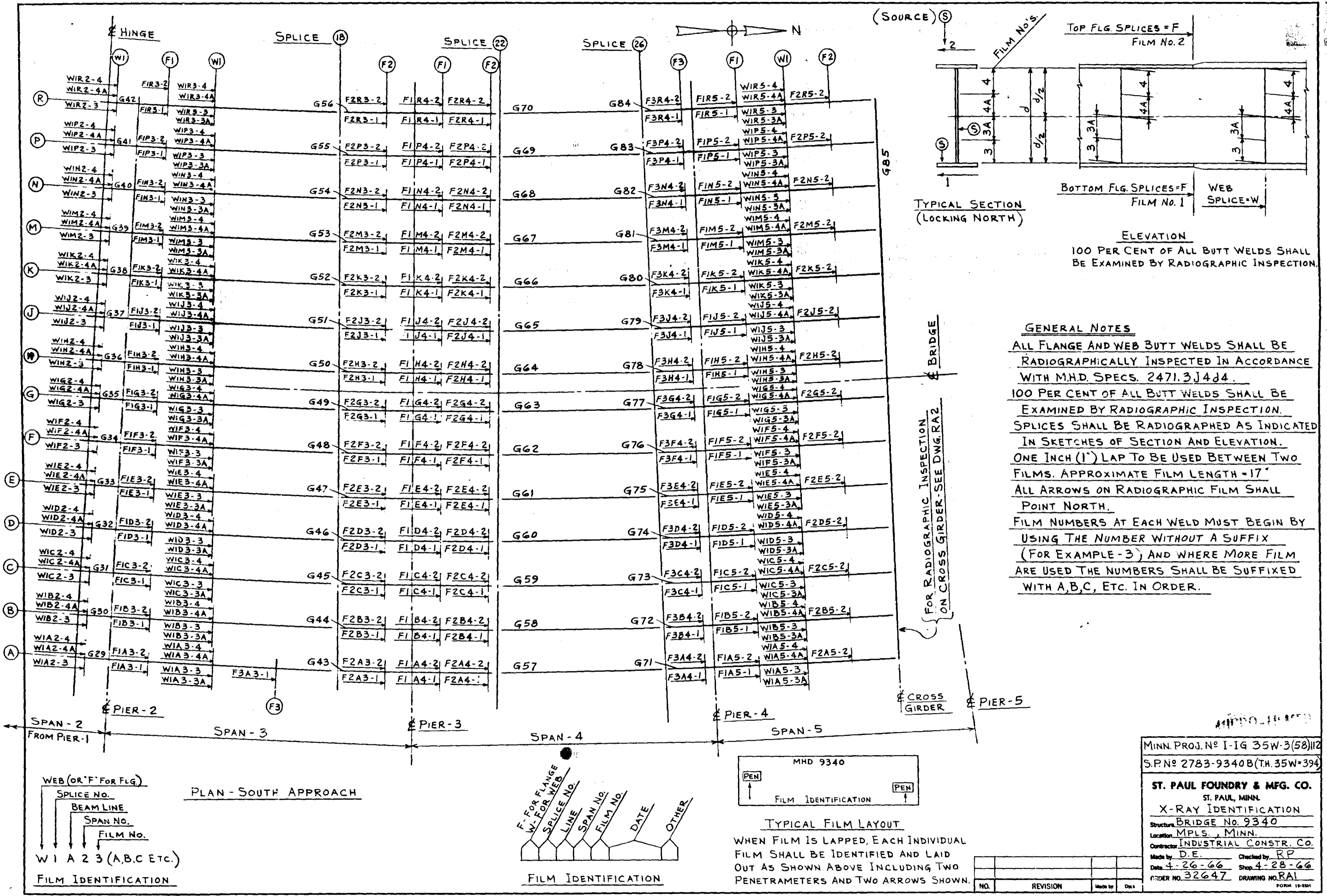


ELEV. TOP OF GIRDERS
 G71 THRU G84
 @ E OF CROSS GIRDER

MINN. PROJ. NO. 1 IG 35W 3.58.112
 S.P.N. 2783-9340B (T.H. 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.
 BLOCKING OF SOUTH APPROACH
 BRIDGE No. 9340
 Location: MPLS., MINN.
 Contractor: INDUSTRIAL CONSTR. CO.
 Made by: D.E. Checked by: RP
 Date: 7/28/66 Shop: 7-19-66
 ORDER NO. 32647 DRAWING NO. E1P

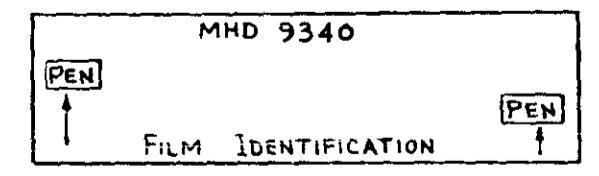
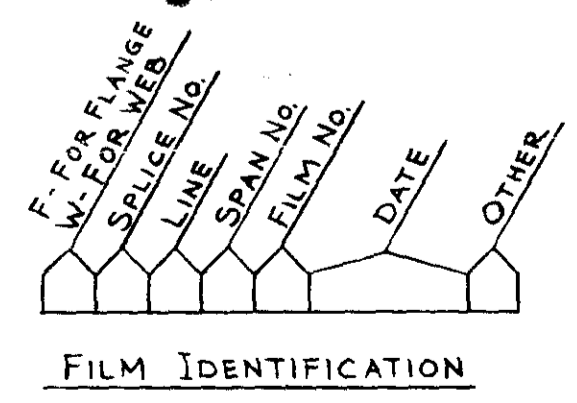
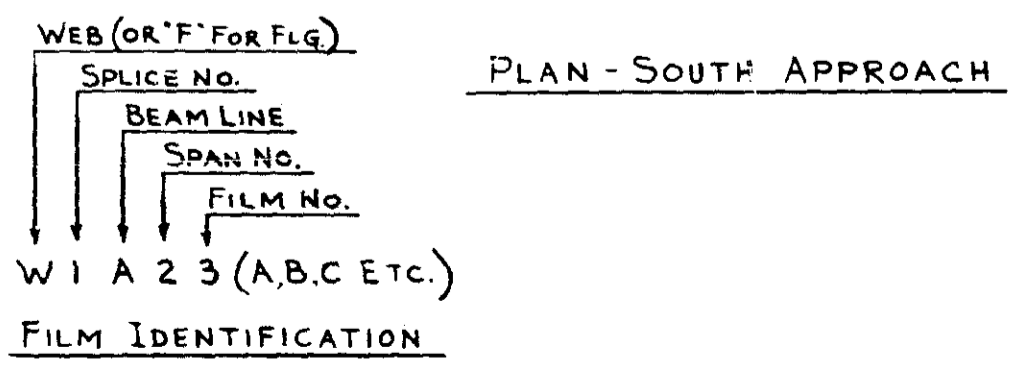
NO.	REVISION	Made by	Date
1	ADD FIELD CONNS	WES	9/22
2	LINE C SO. ABUT. EL. DWG. SCHEDULE	D.E.	7/28/66



ELEVATION
100 PER CENT OF ALL BUTT WELDS SHALL BE EXAMINED BY RADIOGRAPHIC INSPECTION.

GENERAL NOTES
 ALL FLANGE AND WEB BUTT WELDS SHALL BE RADIOGRAPHICALLY INSPECTED IN ACCORDANCE WITH M.H.D. SPECS. 2471.3J4d4.
 100 PER CENT OF ALL BUTT WELDS SHALL BE EXAMINED BY RADIOGRAPHIC INSPECTION. SPLICES SHALL BE RADIOGRAPHED AS INDICATED IN SKETCHES OF SECTION AND ELEVATION. ONE INCH (1") LAP TO BE USED BETWEEN TWO FILMS. APPROXIMATE FILM LENGTH = 17"
 ALL ARROWS ON RADIOGRAPHIC FILM SHALL POINT NORTH.
 FILM NUMBERS AT EACH WELD MUST BEGIN BY USING THE NUMBER WITHOUT A SUFFIX (FOR EXAMPLE - 3) AND WHERE MORE FILM ARE USED THE NUMBERS SHALL BE SUFFIXED WITH A, B, C, ETC. IN ORDER.

FOR RADIOGRAPHIC INSPECTION ON CROSS GIRDER - SEE DWG. RA 2

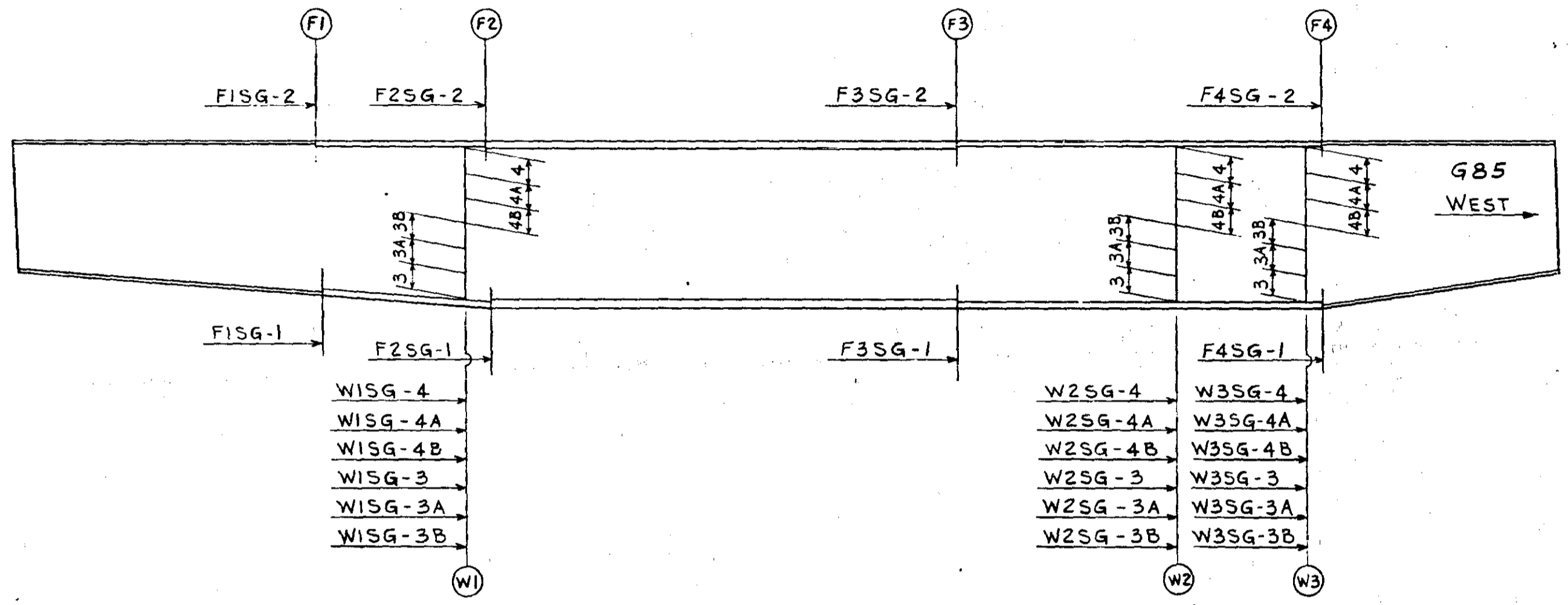


TYPICAL FILM LAYOUT
 WHEN FILM IS LAPPED, EACH INDIVIDUAL FILM SHALL BE IDENTIFIED AND LAID OUT AS SHOWN ABOVE INCLUDING TWO PENETRIMETERS AND TWO ARROWS SHOWN.

NO.	REVISION	Made by	Date

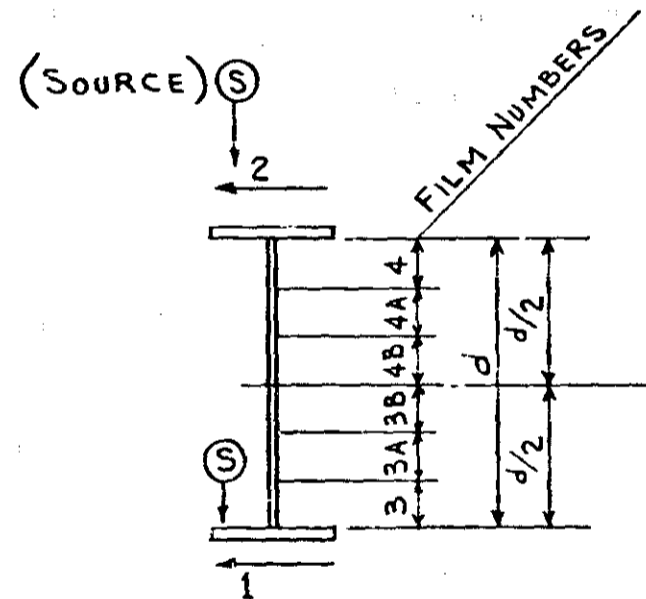
MINN. PROJ. NO. I-IG 35W-3(58)112
 S.P. NO. 2783-9340B (TH. 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
 ST. PAUL, MINN.
 X-RAY IDENTIFICATION
 Structure: BRIDGE No. 9340
 Location: MPLS., MINN.
 Contractor: INDUSTRIAL CONSTR. CO.
 Made by: D.E. Checked by: R.P.
 Date: 4-26-66 Shop: 4-28-66
 ORDER NO. 32647 DRAWING NO. RAI



ELEVATION OF CROSS GIRDER G85 (SOUTH APPROACH)

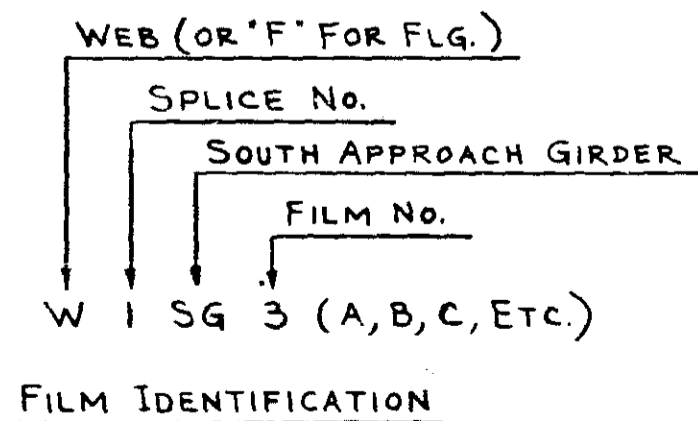
100 PER CENT OF ALL BUTT WELDS SHALL BE EXAMINED BY RADIOGRAPHIC INSPECTION.



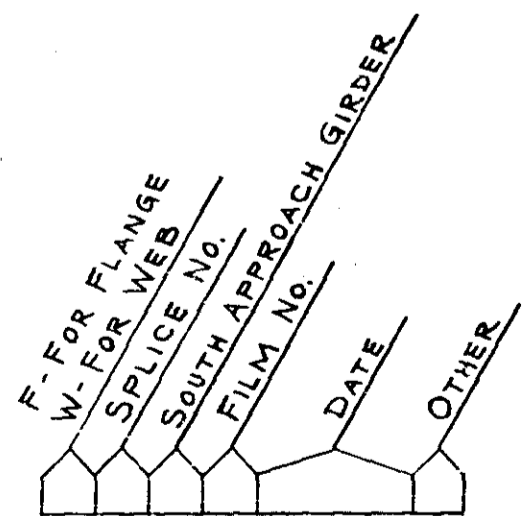
TYPICAL SECTION (LOCKING WEST)

GENERAL NOTES

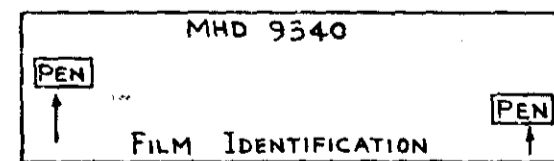
- ALL FLANGE AND WEB BUTT WELDS SHALL BE RADIOGRAPHICALLY INSPECTED IN ACCORDANCE WITH M.H.D. SPECS. 2471.3J4d4.
- 100 PER CENT OF ALL BUTT WELDS SHALL BE EXAMINED BY RADIOGRAPHIC INSPECTION.
- SPLICES SHALL BE RADIOGRAPHED AS INDICATED IN SKETCHES OF SECTION AND ELEVATION.
- ONE INCH (1") LAP TO BE USED BETWEEN TWO FILMS. APPROXIMATE FILM LENGTH = 17"
- ALL ARROWS ON RADIOGRAPHIC FILM SHALL POINT WEST.
- FILM NUMBERS AT EACH WELD MUST BEGIN BY USING THE NUMBER WITHOUT A SUFFIX (FOR EXAMPLE - 3) AND WHERE MORE FILM ARE USED THE NUMBERS SHALL BE SUFFIXED WITH A, B, C, ETC. IN ORDER.



FILM IDENTIFICATION



FILM IDENTIFICATION



TYPICAL FILM LAYOUT

WHEN FILM IS LAPPED, EACH INDIVIDUAL FILM SHALL BE IDENTIFIED AND LAID OUT AS SHOWN ABOVE INCLUDING TWO PENETRIMETERS AND TWO ARROWS AS SHOWN.

MINN. PROJ. NO. I-IG 35W-3(58)112
S.P.N. 2783-9340B (TH. 35W-394)

ST. PAUL FOUNDRY & MFG. CO.
ST. PAUL, MINN.
X-RAY IDENTIFICATION
Structure: BRIDGE NO. 9340
Location: MPLS., MINN.
Contractor: INDUSTRIAL CONSTR. CO.
Made by: D.E. Checked by: RP
Date: 4-27-66 Shop: 4-28-66
ORDER NO. 32647 DRAWING NO. RA2

NO.	REVISION	Made by	Date

FORM 15-584