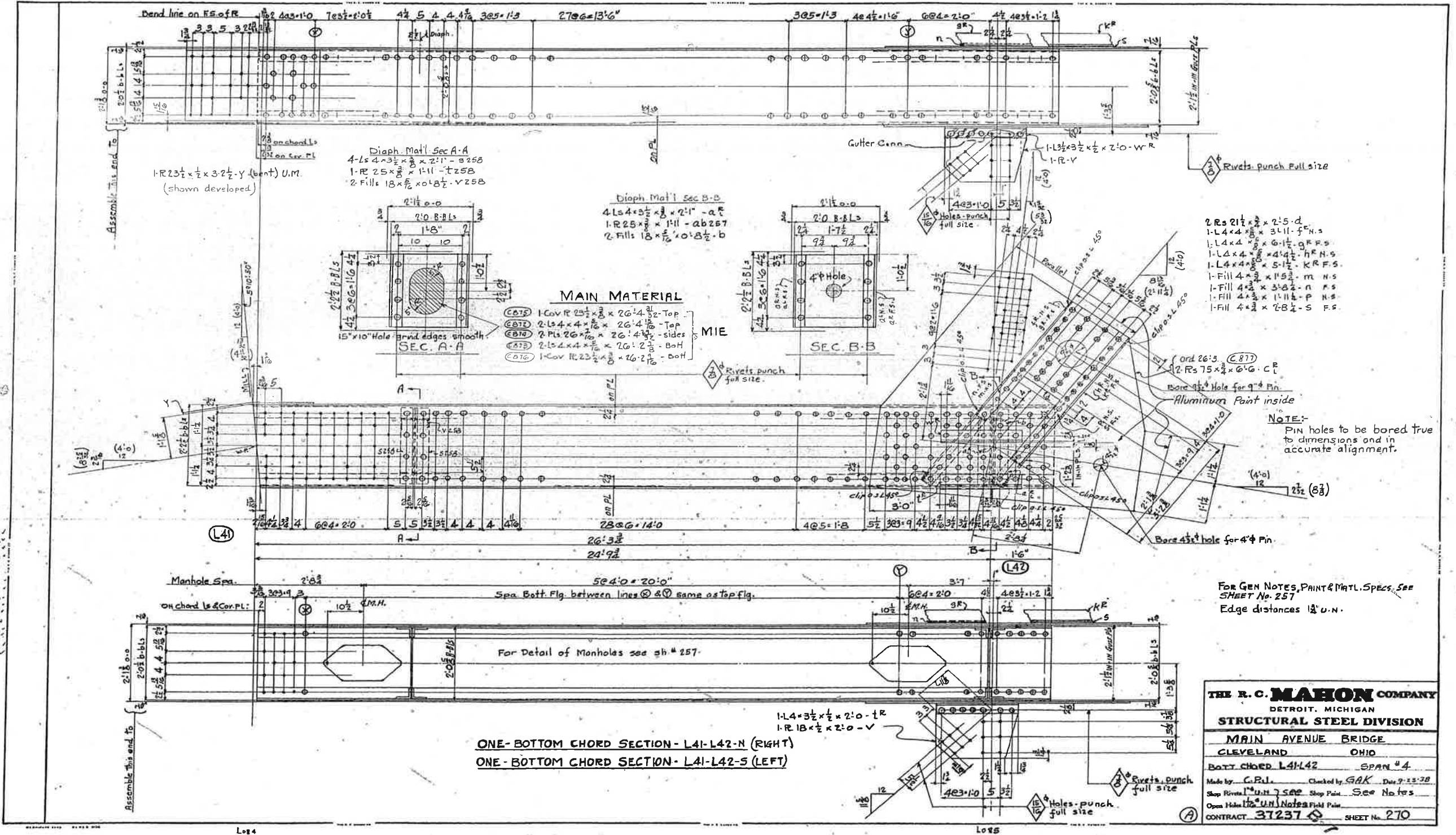


L41 N&S

For General Notes, Material Specs. and Enlarged Detail of Manhole see Sheet #257

Edge distances 1/2" U.N.

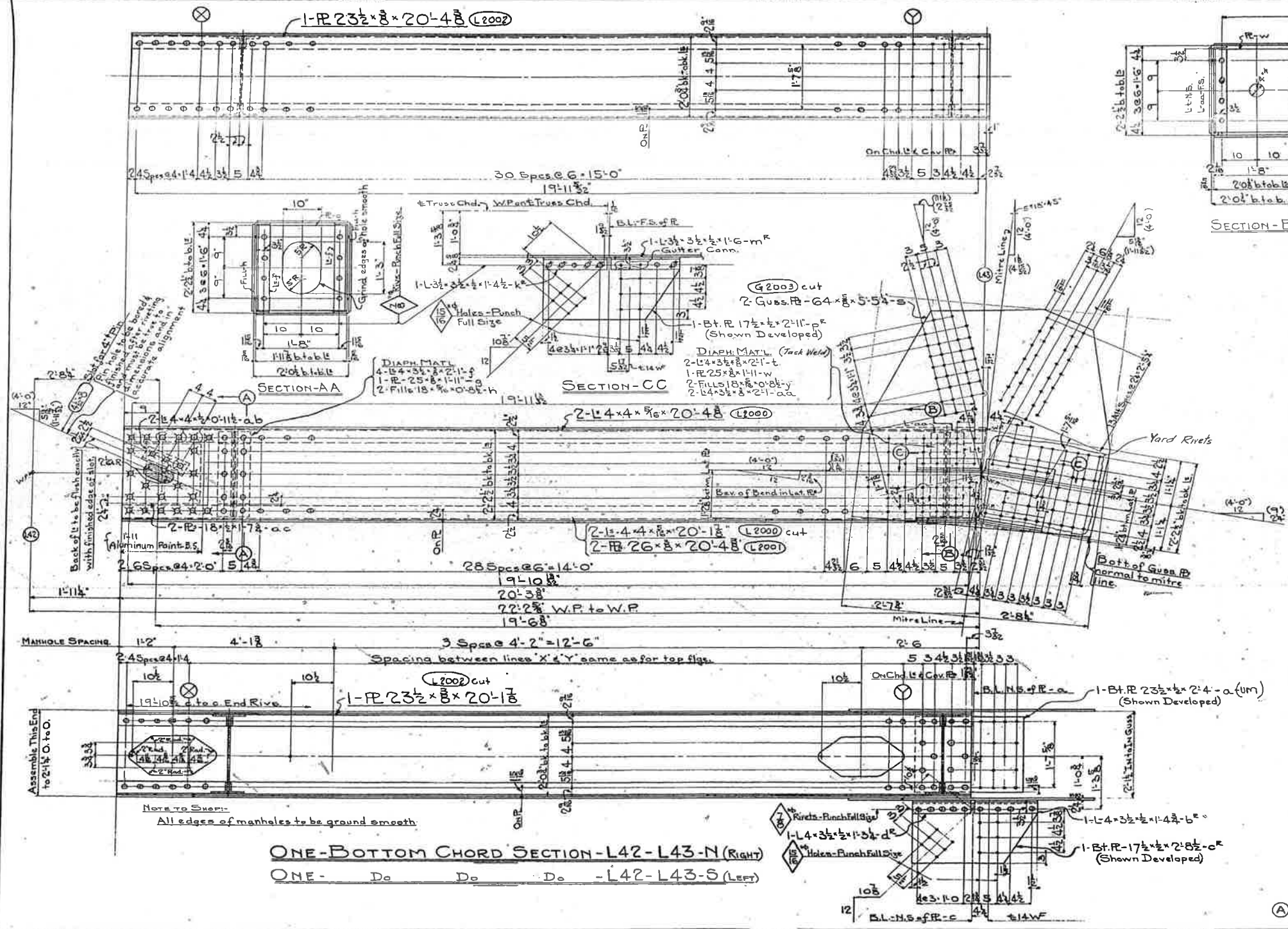




L42 N&S

L085

L0104



**GENERAL NOTES:**  
 Riv. - 1" UN  
 Open Hole - 1/8" UN  
 Edge distance 1 1/2" for 1" Riv. UN  
 All holes sub-punched 3/16" & reamed to full size except holes for shop field rivets in diaphragms & bracing which may be punched full size as noted.  
 All holes in guss. pls. to be sub-punched, 3/16" & reamed to full size after truss is assembled in yard.  
 Shop rivets in gusset pls. to be driven after truss is assembled.  
 Field conn. with 1" diameter rivets to be sub-punched 3/16" & reamed to 1/8" with members assembled.  
 Holes in matl. over 1" thick to be sub-drilled 1/8" & reamed to 1/8"  
 Holes marked "Gutter Conn." to be circled with white paint after members painted.  
**Matl. Specs:**  
 Struct. Steel - A572M-A7-36 with copper bearing content of 0.20%  
 Riv. Steel - ASTM-A141-36 with copper bearing content of 0.20%  
**Shop Paint:**  
 Two (2) coats of zinc chromate.  
 Shop contact surfaces not painted.  
 Surfaces inaccessible after erection (where indicated on shop dwgs.) to be given one additional shop coat of aluminum paint.  
 Finished surfaces to receive one coat of slushing compound.

L43 N 1/3

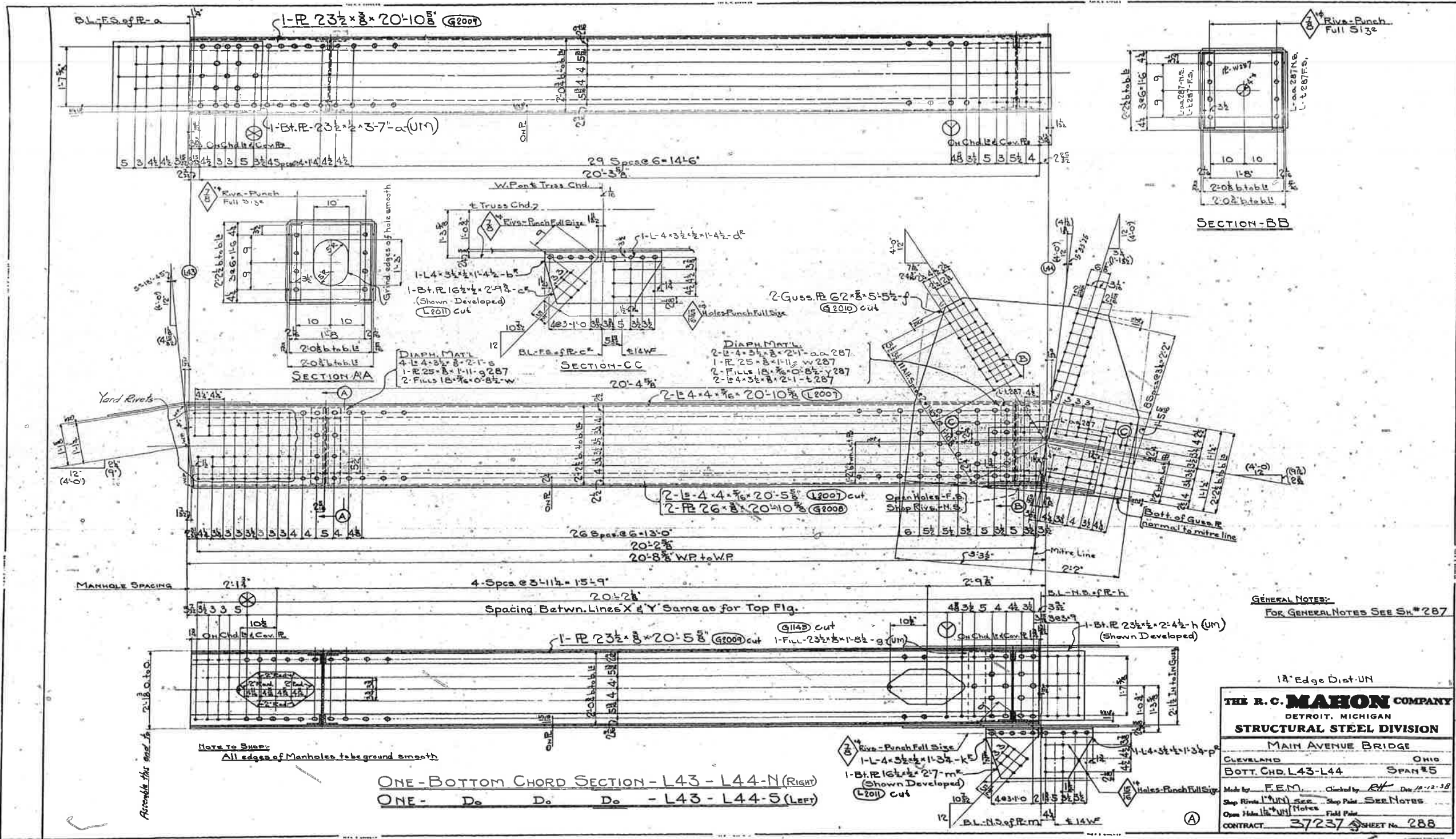
**THE R. C. MAHON COMPANY**  
 DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**  
 MAIN AVENUE BRIDGE  
 CLEVELAND OHIO  
**BOTT. CHD. L42-L43** SPAN - 5  
 Made by F.E.M. Checked by R.H. Date 10-11-38  
 Shop Rivets 1" UN Shop Paint SEE NOTES  
 Open Hole 1/8" UN Notes Field Paint  
 CONTRACT 37237 SHEET No. 287

ONE-BOTTOM CHORD SECTION-L42-L43-N (RIGHT)  
 ONE- Do Do Do -L42-L43-S (LEFT)



L0104

L0105



L44 N/S

GENERAL NOTES:  
FOR GENERAL NOTES SEE SH #287

18" Edge Dist-UN

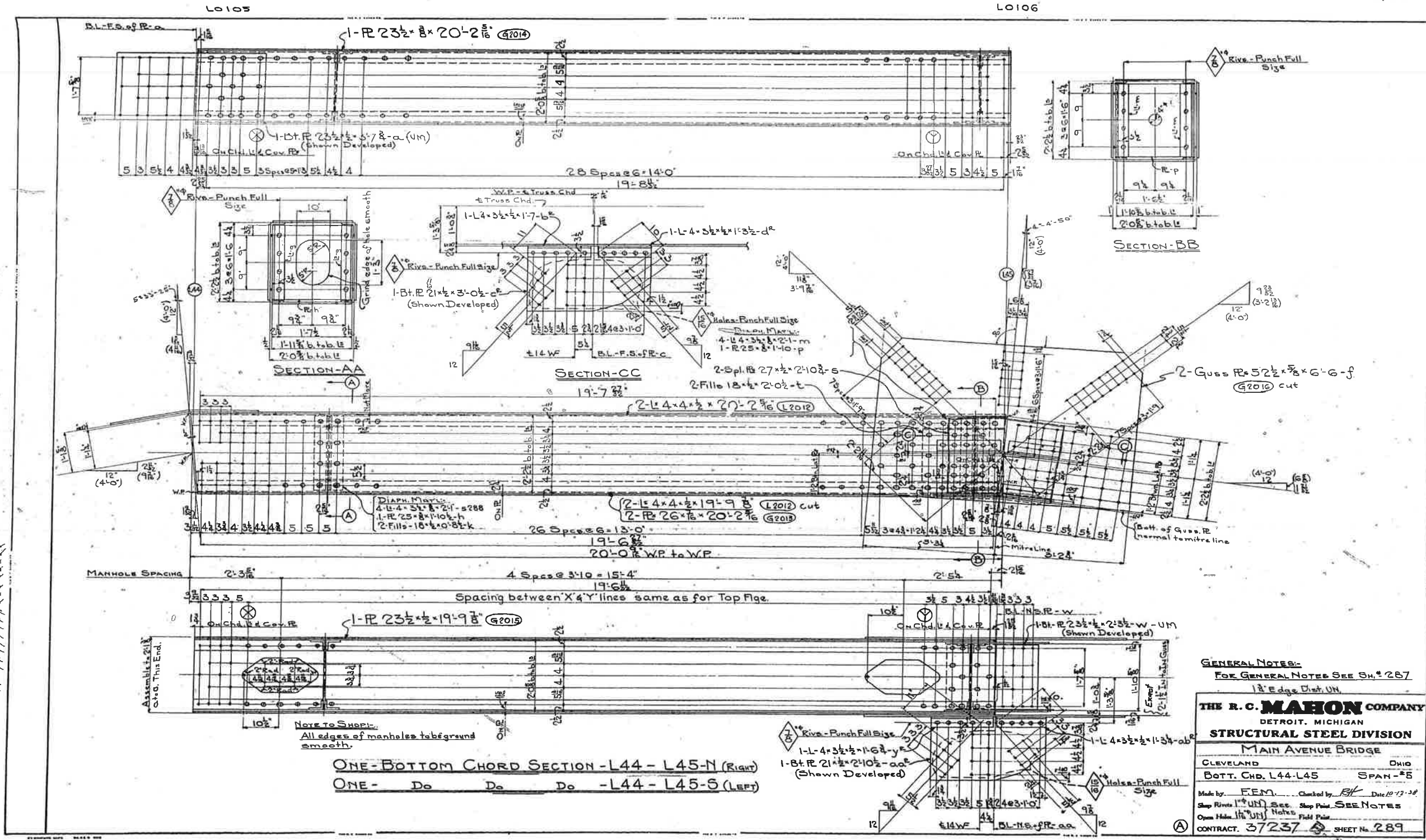
**THE R. C. MAHON COMPANY**  
DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**

MAIN AVENUE BRIDGE  
CLEVELAND OHIO  
BOTT. CHD. L43-L44 SPAN #5

Made by FEM Checked by RH Date 10-12-38  
Shop Rivets L-UN See Shop Plans SEE NOTES  
Open Holes L-UN Notes Field Plans  
CONTRACT 37237 SHEET No. 288

ONE-BOTTOM CHORD SECTION - L43 - L44-N (RIGHT)  
ONE - Do Do Do - L43 - L44-S (LEFT)





ONE-BOTTOM CHORD SECTION - L44 - L45-N (RIGHT)  
ONE - Do Do Do - L44 - L45-S (LEFT)

**GENERAL NOTES:-**  
FOR GENERAL NOTES SEE SH. # 287  
1/2" Edge Dist. UN.

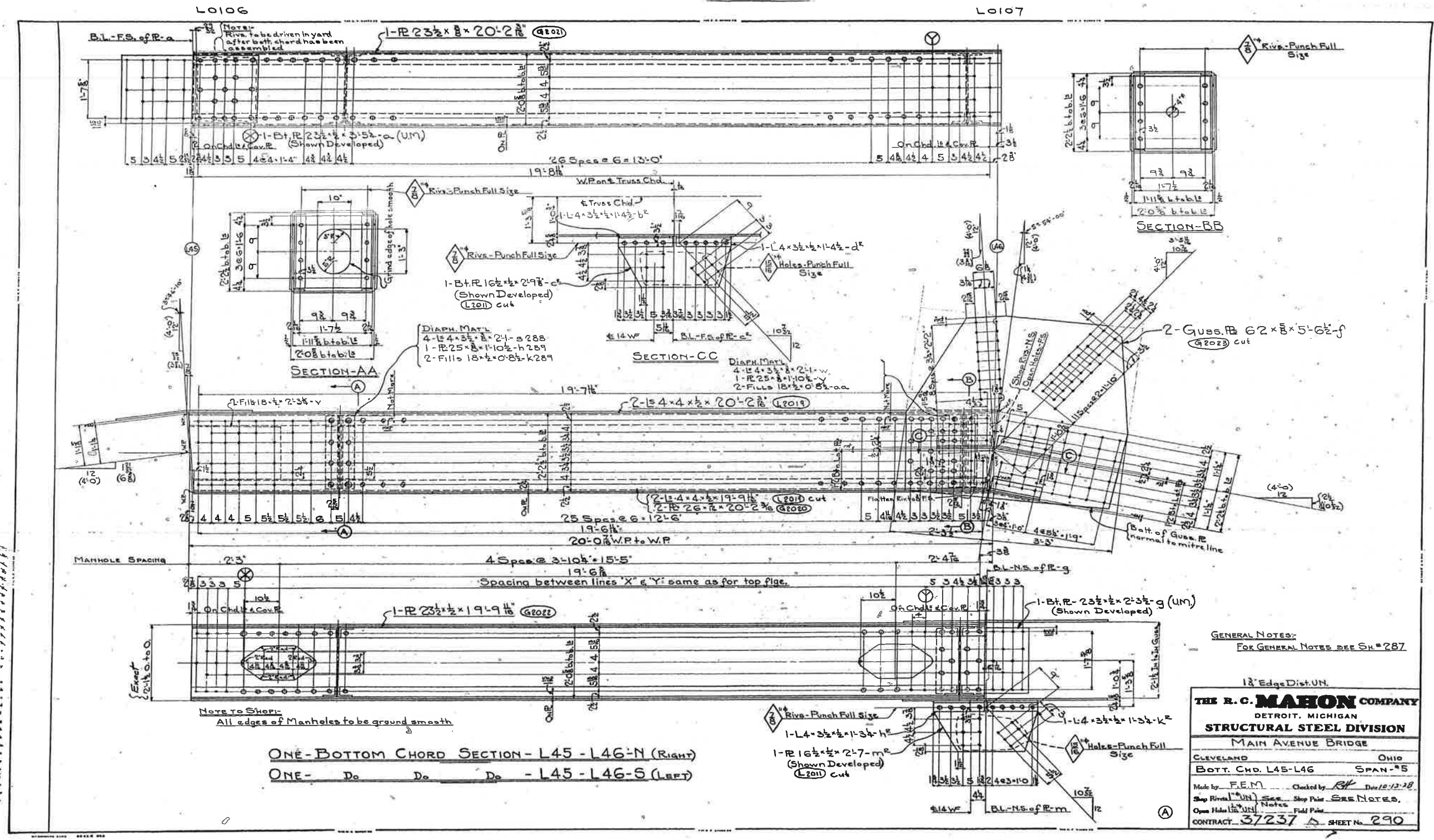
**THE R. C. MAHON COMPANY**  
DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**

**MAIN AVENUE BRIDGE**  
CLEVELAND OHIO  
BOT. CHD. L44-L45 SPAN - #5

Made by: FEM Checked by: RK Date: 10-12-38  
Shop Prints: 1" UN Sec. Shop Plans: SEE NOTES  
Open Hole: 1 1/2" UN Notes: Field Plate

CONTRACT: 37237 SHEET No. 289

L45 N&S



ONE - BOTTOM CHORD SECTION - L45 - L46 - N (RIGHT)  
 ONE - Do Do Do - L45 - L46 - S (LEFT)

GENERAL NOTES:  
 FOR GENERAL NOTES SEE SH # 287

12' Edge Dist. UN.

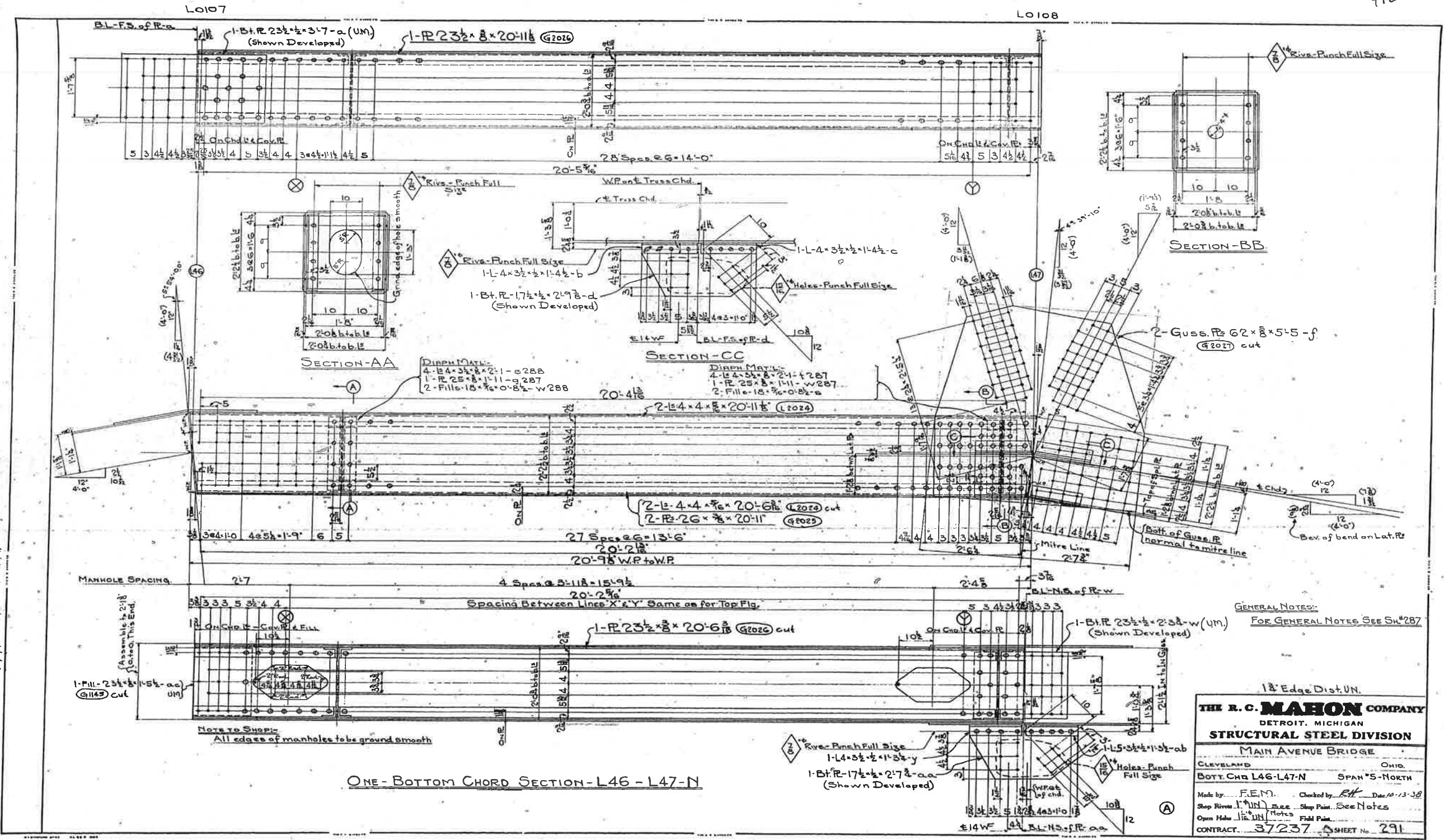
**THE R. C. MAHON COMPANY**  
 DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**

MAIN AVENUE BRIDGE  
 CLEVELAND OHIO  
 BOTT. CHD. L45-L46 SPAN - 85

Made by F.E.M. Checked by R.H. Date 10-13-28  
 Shop Rivet UN. Shop Price SEE NOTES.  
 Open Hole UN. Field Price  
 CONTRACT 37237 SHEET No. 290

L46 N&S





L47 N

GENERAL NOTES:  
FOR GENERAL NOTES SEE SH.#287

18" Edge Dist. UN.

**THE R. C. MAHON COMPANY**  
DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**

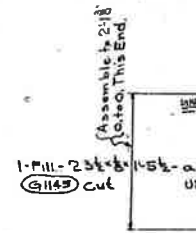
MAIN AVENUE BRIDGE  
CLEVELAND OHIO  
BOTT. CHD L46-L47-N SPAN #5-NORTH

Made by F.E.M. Checked by R.H. Date 10-13-38  
Shop Rivets 1" UN. See Shop Plans See Notes  
Open Hole 1 1/2" UN. See Shop Plans See Notes  
CONTRACT 37237 SHEET No. 291

L0107

L0108

MANHOLE SPACING

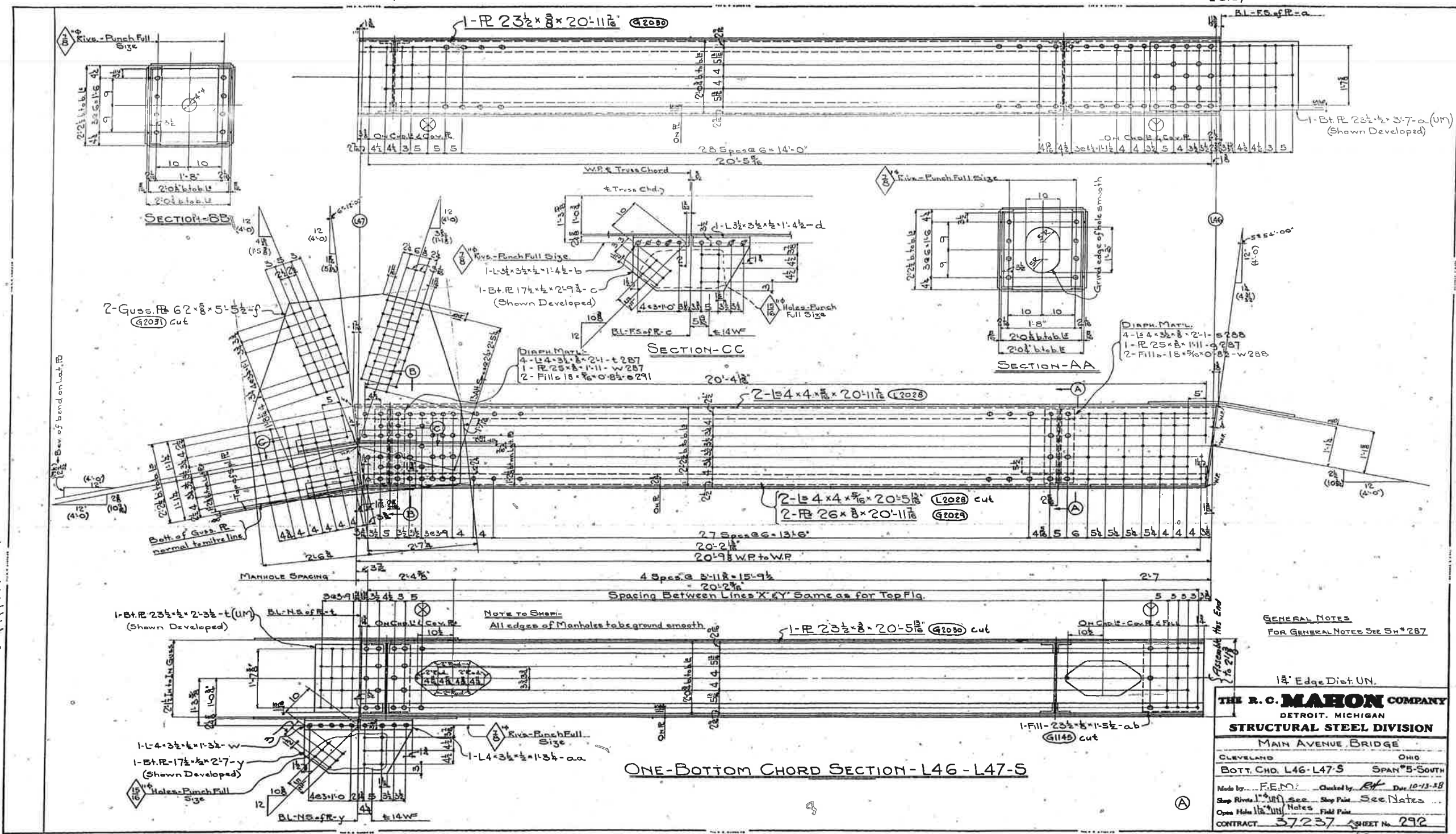


NOTE TO SHOP:  
All edges of manholes to be ground smooth

ONE - BOTTOM CHORD SECTION - L46 - L47-N

L0109

L0107



L47 S

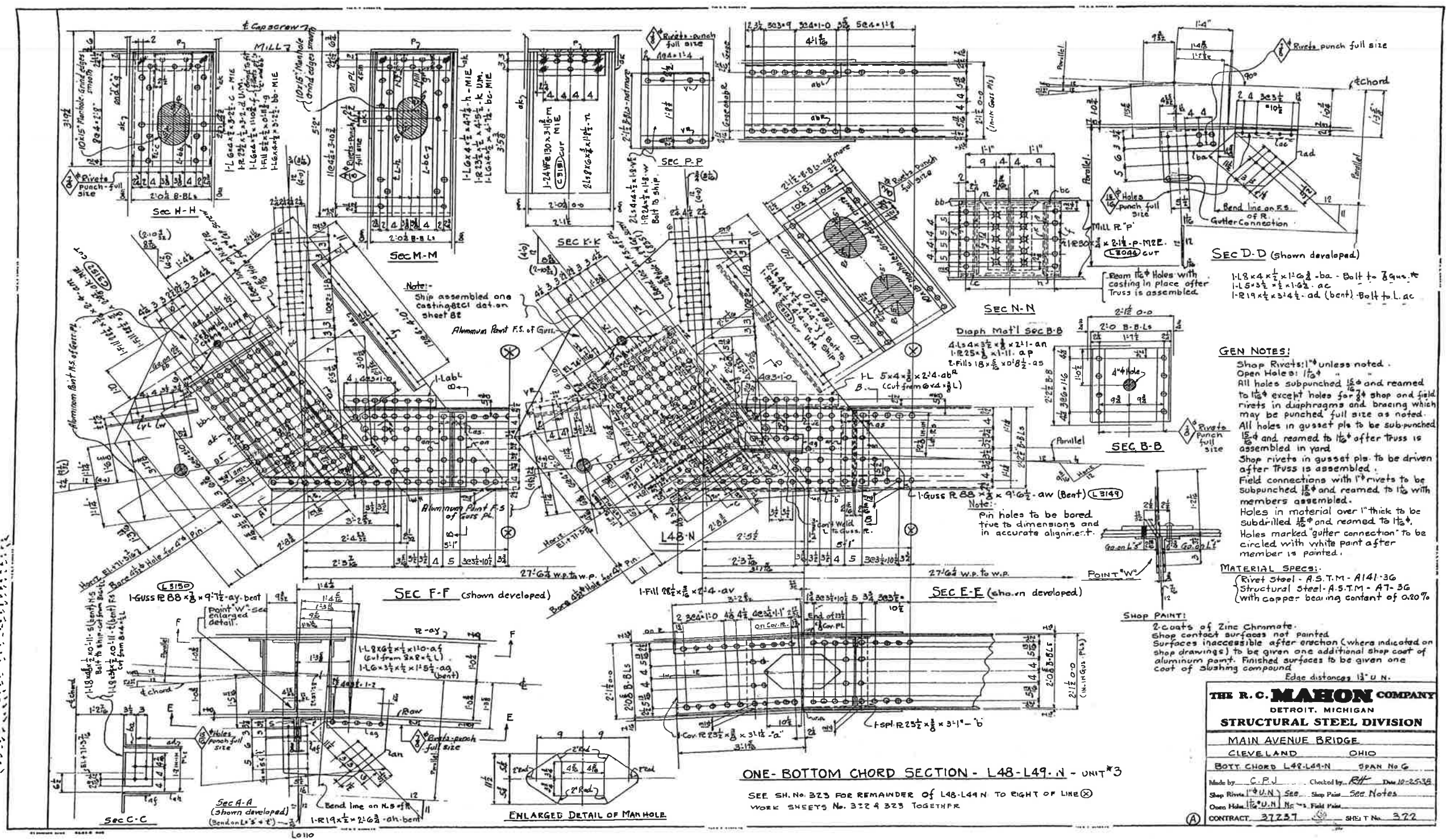
GENERAL NOTES  
FOR GENERAL NOTES SEE SH # 287

1/2" Edge Dist. UN.

**THE R. C. MAHON COMPANY**  
DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**  
MAIN AVENUE BRIDGE

CLEVELAND	OHIO
BOTT. CHD. L46-L47-S	SPAN #5 SOUTH
Made by... F.E.M.	Checked by... B.H. Date 10-13-38
Shop Rivets 1/2" UN	Shop Pairs See Notes
Open Hole 1/2" UN	Notes Field Pairs
CONTRACT 37237	SHEET No. 292





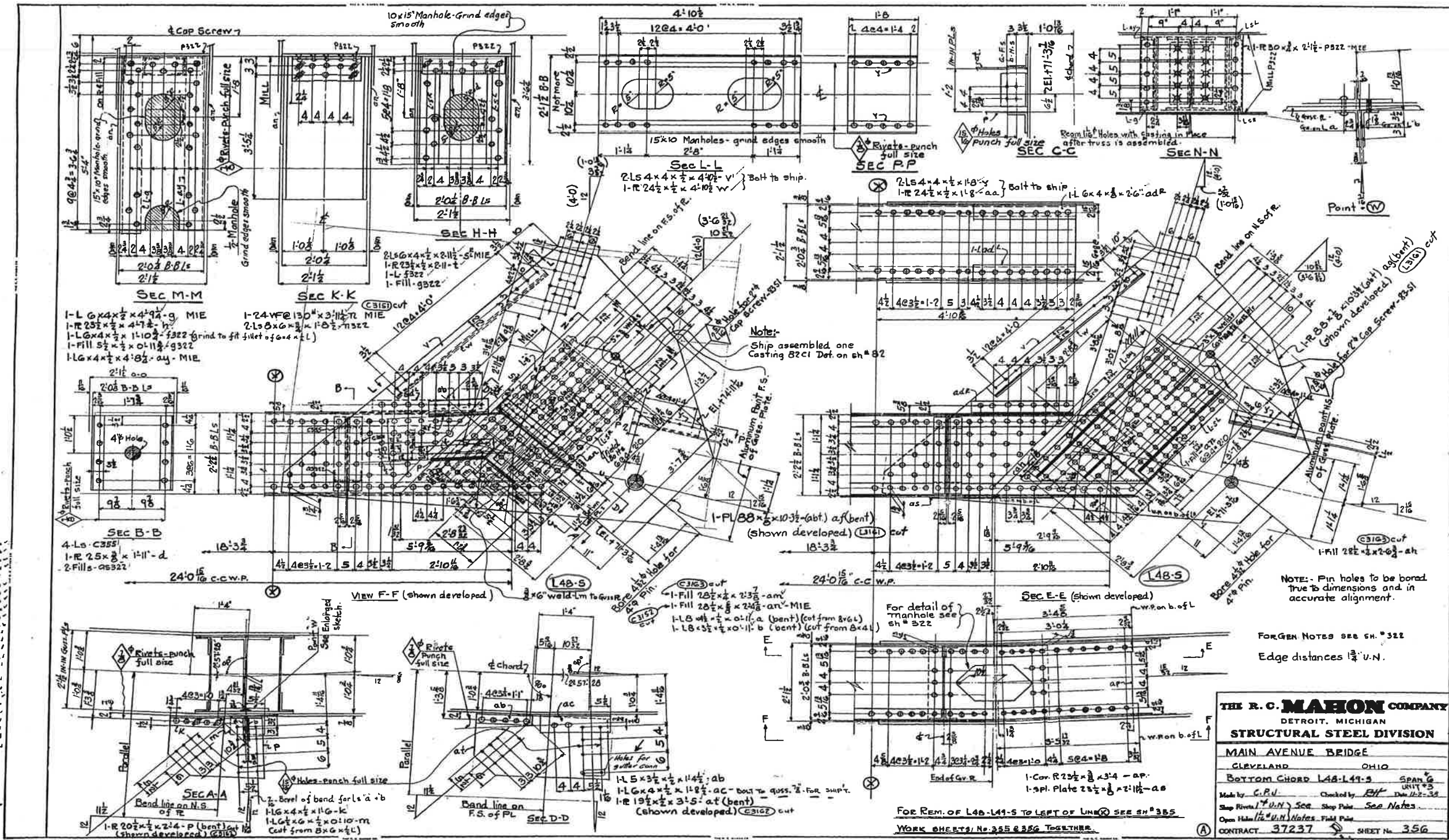
**GEN NOTES:**  
 Shop Rivets: 1/4" unless noted.  
 Open Holes: 1 1/8"  
 All holes subpunched 1/8" and reamed to 1/4" except holes for 3/4" shop and field rivets in diaphragms and bracing which may be punched full size as noted.  
 All holes in gusset plates to be subpunched 1/8" and reamed to 1/4" after truss is assembled in yard.  
 Shop rivets in gusset plates to be driven after truss is assembled.  
 Field connections with 1" rivets to be subpunched 1/8" and reamed to 1/4" with members assembled.  
 Holes in material over 1" thick to be subdrilled 1/8" and reamed to 1/4".  
 Holes marked "gutter connection" to be circled with white paint after member is painted.

**MATERIAL SPECS:**  
 Rivet Steel - A.S.T.M. - A141-36  
 Structural Steel - A.S.T.M. - A7-36  
 (with copper bearing content of 0.20%)

**SHOP PAINT:**  
 2 coats of Zinc Chromate.  
 Shop contact surfaces not painted.  
 Surfaces inaccessible after erection (where indicated on shop drawings) to be given one additional shop coat of aluminum paint. Finished surfaces to be given one coat of slushing compound.  
 Edge distances 1 1/2" U.N.

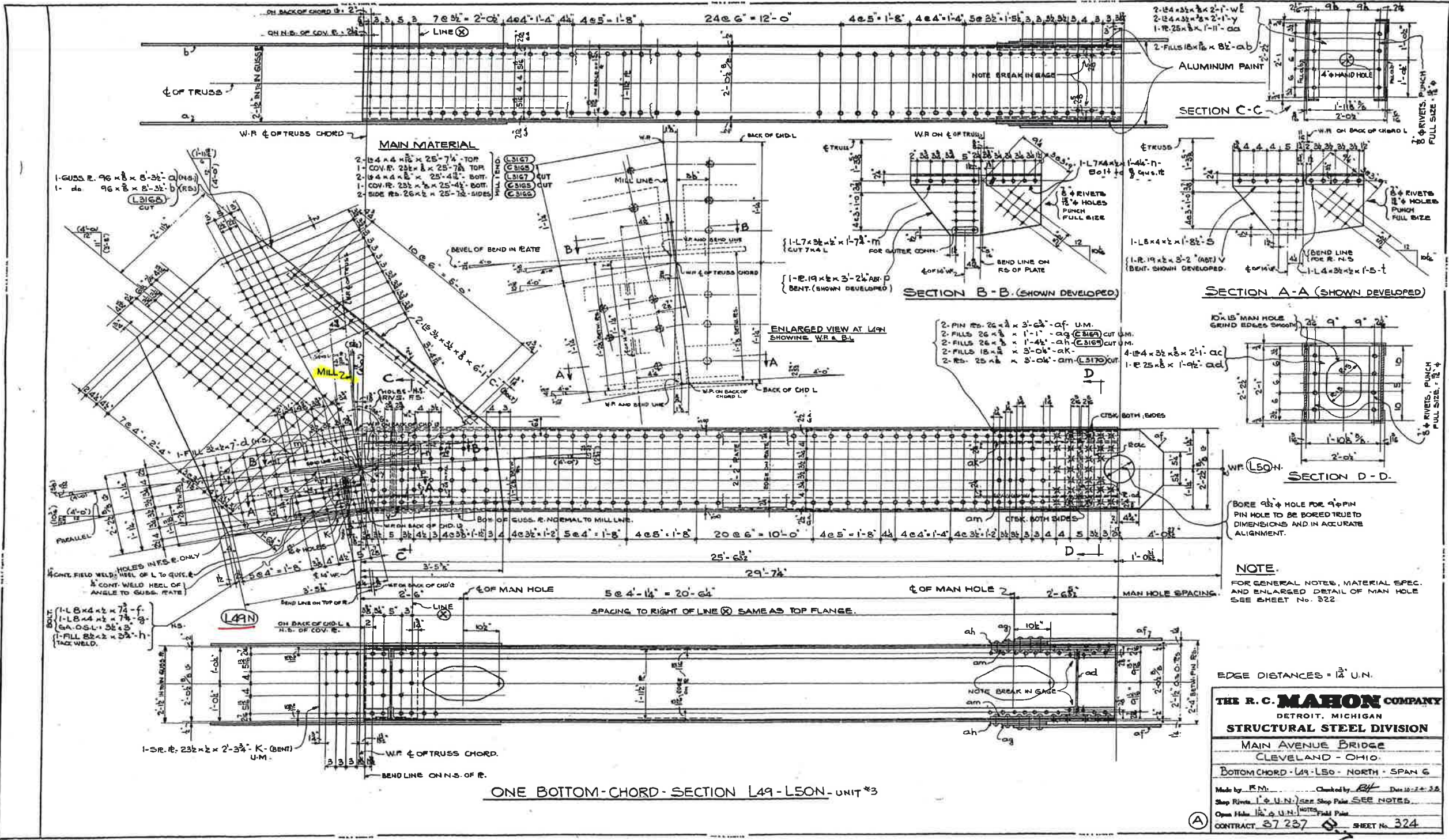
<b>THE R. C. MAHON COMPANY</b>	
DETROIT, MICHIGAN	
<b>STRUCTURAL STEEL DIVISION</b>	
MAIN AVENUE BRIDGE	
CLEVELAND	OHIO
BOTT CHORD L48-L49-N SPAN No G	
Made by: C.P.V.	Checked by: R.H. Date 10-25-38
Shop Rivets: 1/4" U.N.	Shop Paint: See Notes
Open Holes: 1 1/8" U.N.	Field Rivets: See Notes
CONTRACT: 37237	SHEET No. 372

L48 N



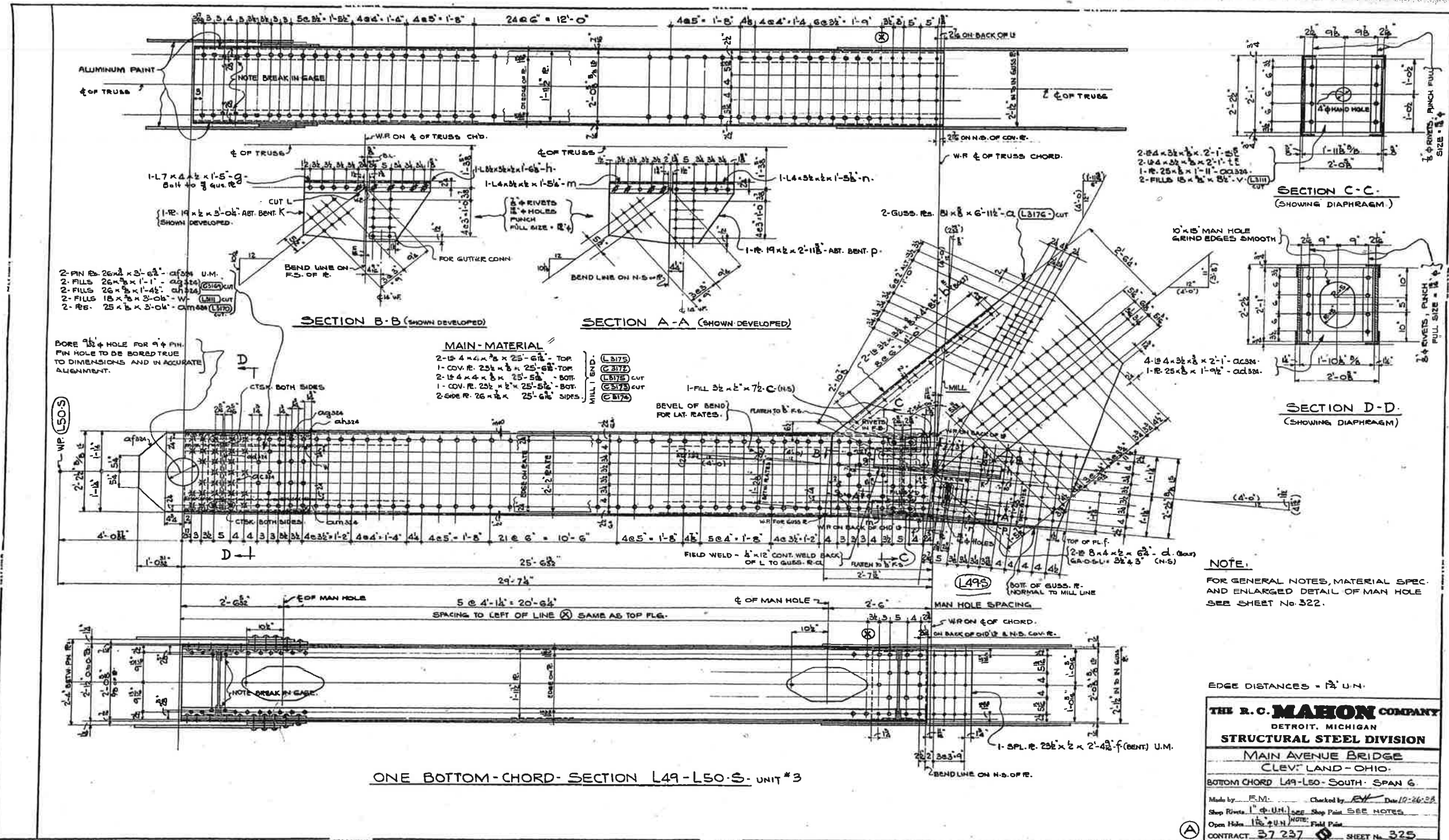
L48 S





L49 N



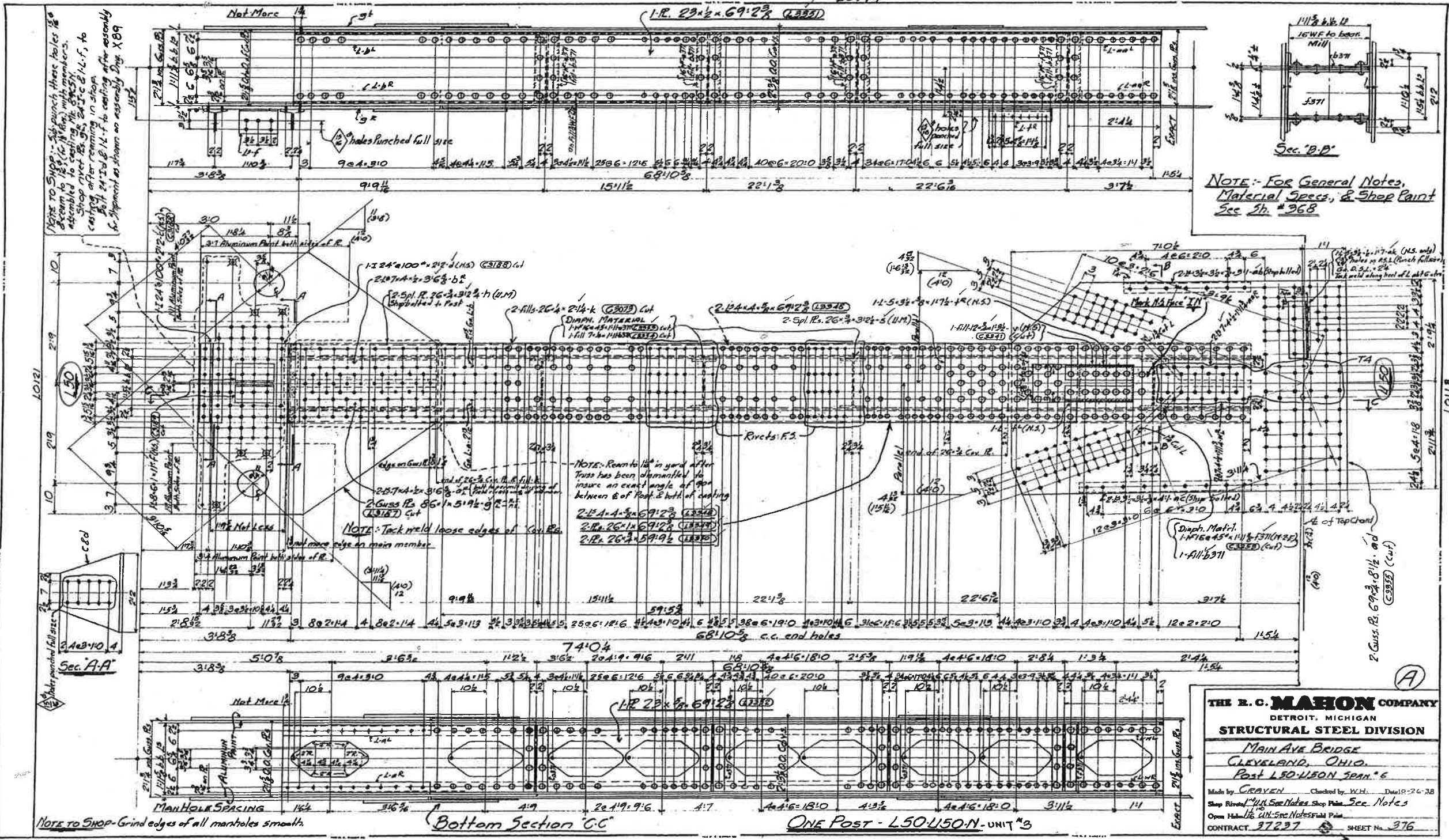


L49 S

L0131

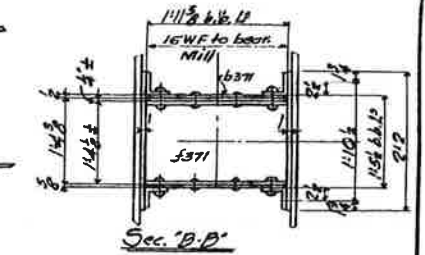
L0144





NOTE TO SHOP: - Sub-punch these holes to  
spec to 1/2" (C. 118) with members.  
Assembled to casting No. 5055.  
Shop rivet 1/2" dia. 5/8" dia. 24" x 2" dia. 1 1/2" dia.  
casting after reaming in shop.  
24" dia. 1 1/2" dia. to casting after assembly  
Shop rivet as shown on assembly Dwg. X 89

NOTE TO SHOP: - Grind edges of all manholes smooth.



NOTE: - For General Notes,  
Material Specs, & Shop Paint  
See Dwg. # 368

NOTE: - Ream to 1/2" in yard after  
Toss has been dismantled to  
insure an exact angle of 90°  
between E of Post & hole of casting  
2" x 1/4" x 1/4" (L50) Cut  
2" x 1/4" x 1/4" (L50) Cut  
2" x 1/4" x 1/4" (L50) Cut

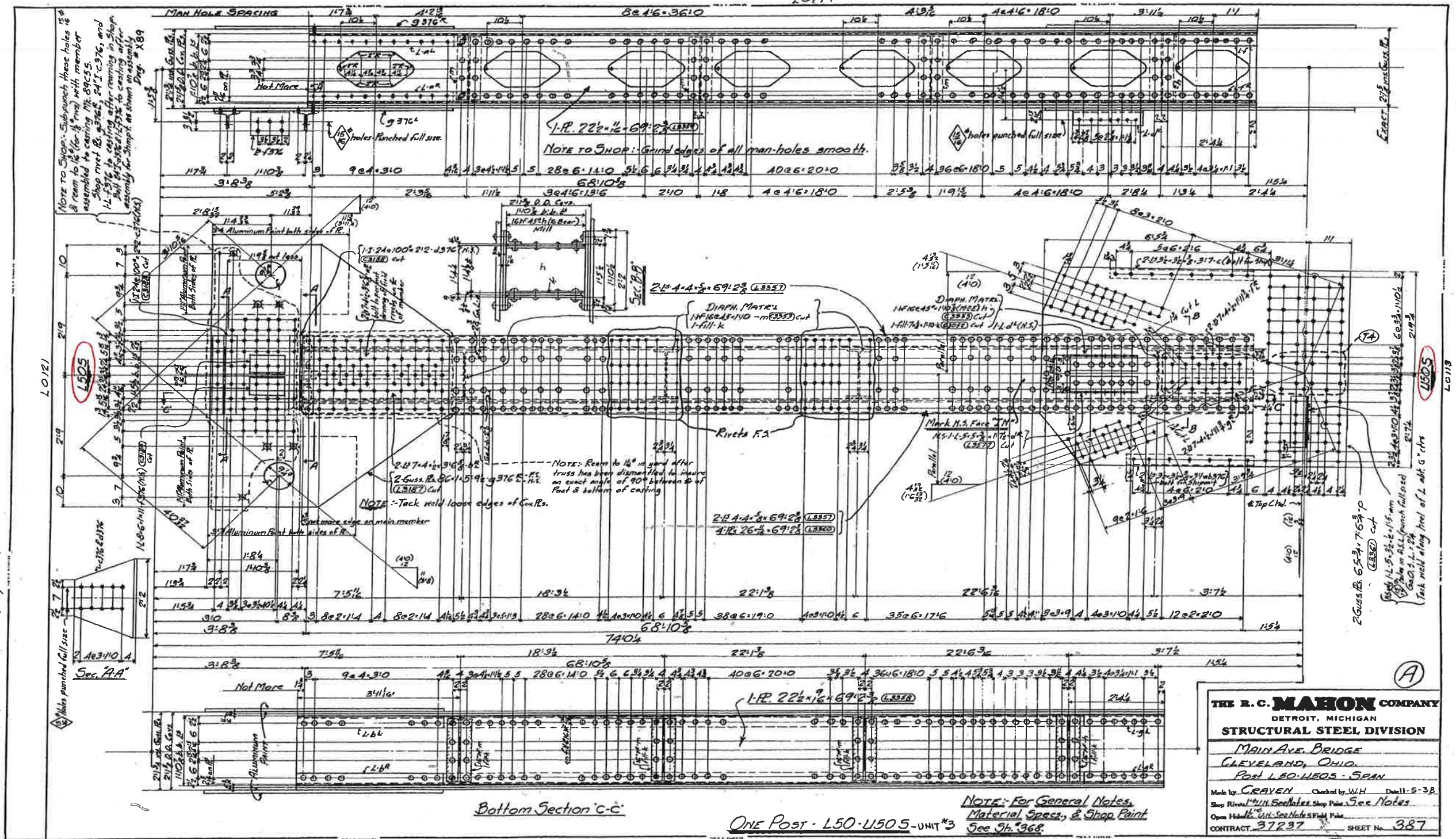
NOTE: - Tack weld loose edges of cut R.

**THE R. C. MAHON COMPANY**  
DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**  
MAIN AVE BRIDGE  
CLEVELAND, OHIO.  
Post L50-U50-N-SPAN # 6  
Made by: CRAYEN Checked by: W.H. Date: 10-24-38  
Shop Rivet: 1/2" Dia. Notes Shop Paint See Notes  
Open Holes: 1/2" Dia. Notes Shop Paint See Notes  
CONTRACT 37227 SHEET No. 376

L50 N  
U50 N



LO179



L50 S  
U50 S

**THE R. C. MAHON COMPANY**  
 DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**

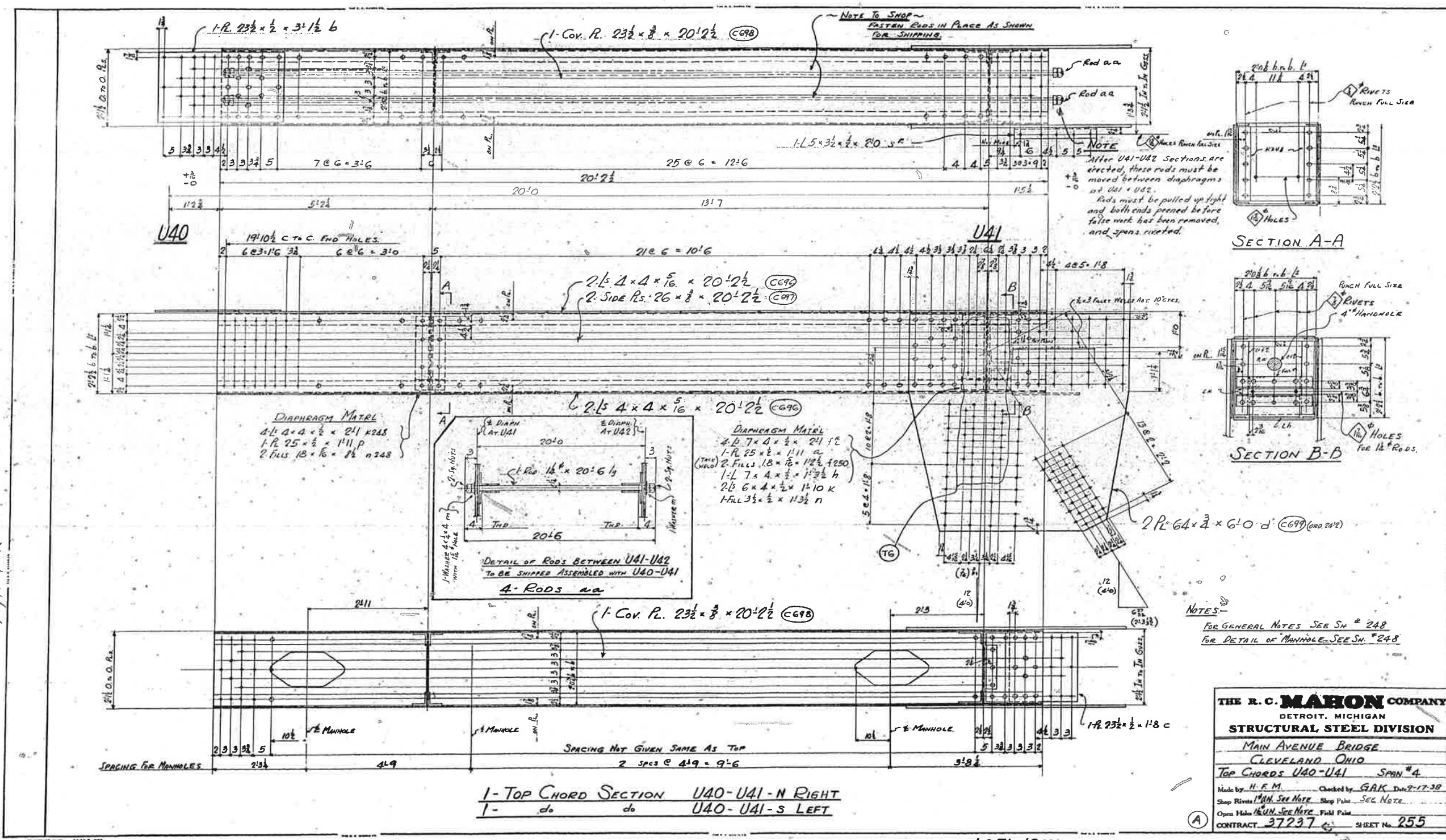
**MAIN AVE. BRIDGE**  
 CLEVELAND, OHIO  
 POST L50-U505 - SPAN

Made by **CRAYEN** Checked by **W.H.** Drawn **5-38**  
 Shop Rivets **1 1/2" Dia. Shop Rivets See Notes**  
 Open Holes **See Notes Field Plate**  
 CONTRACT **37237** SHEET No. **387**

ONE POST - L50-U505-UNIT #3

NOTE: For General Notes, Material Specs., & Shop Paint See Sh. 368.



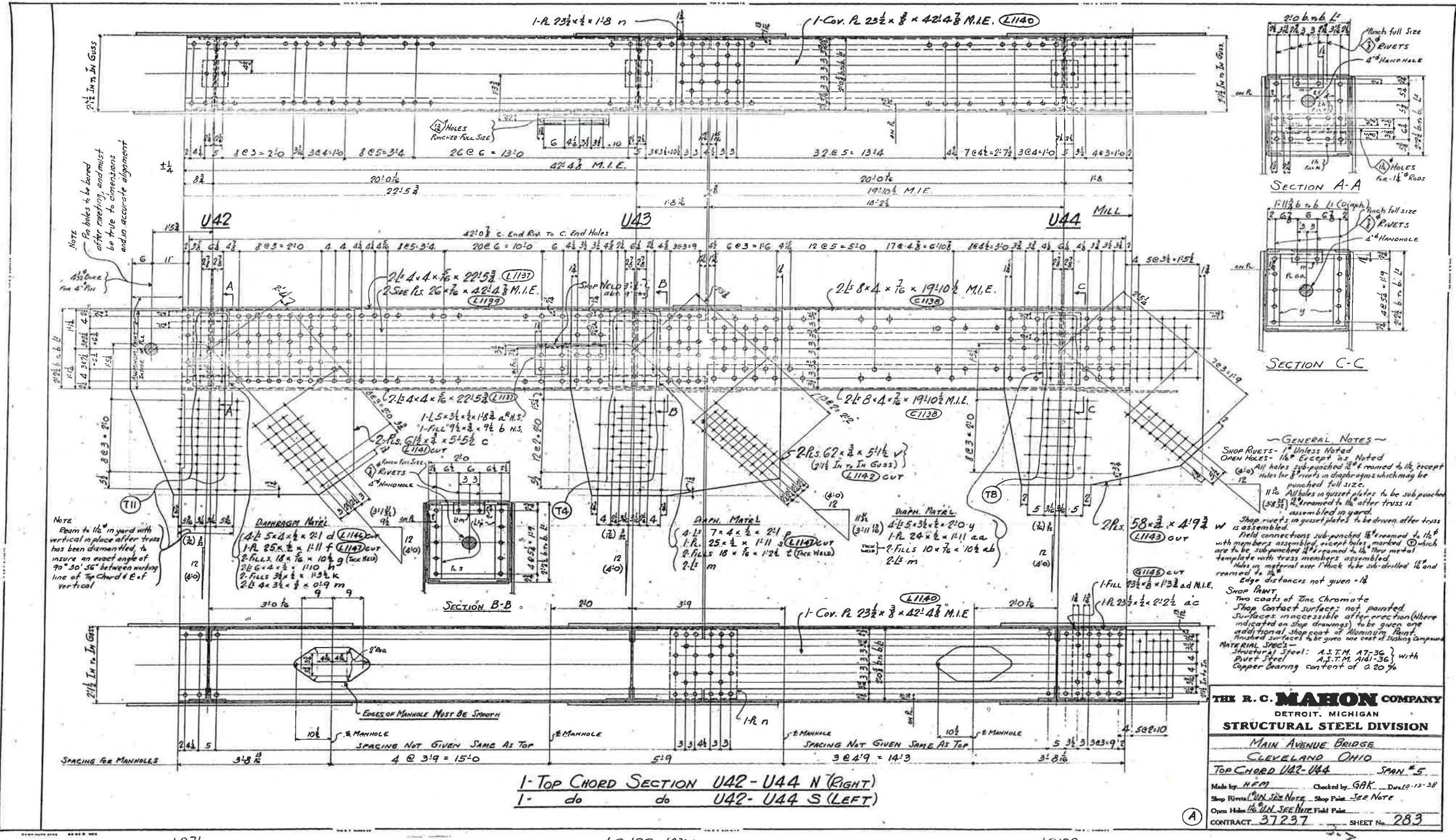


L070

L071 L0226

U41 N/S





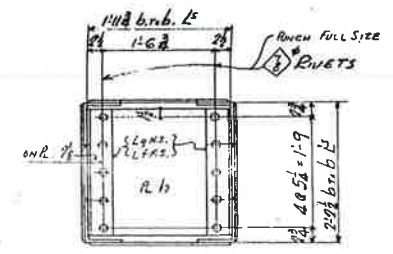
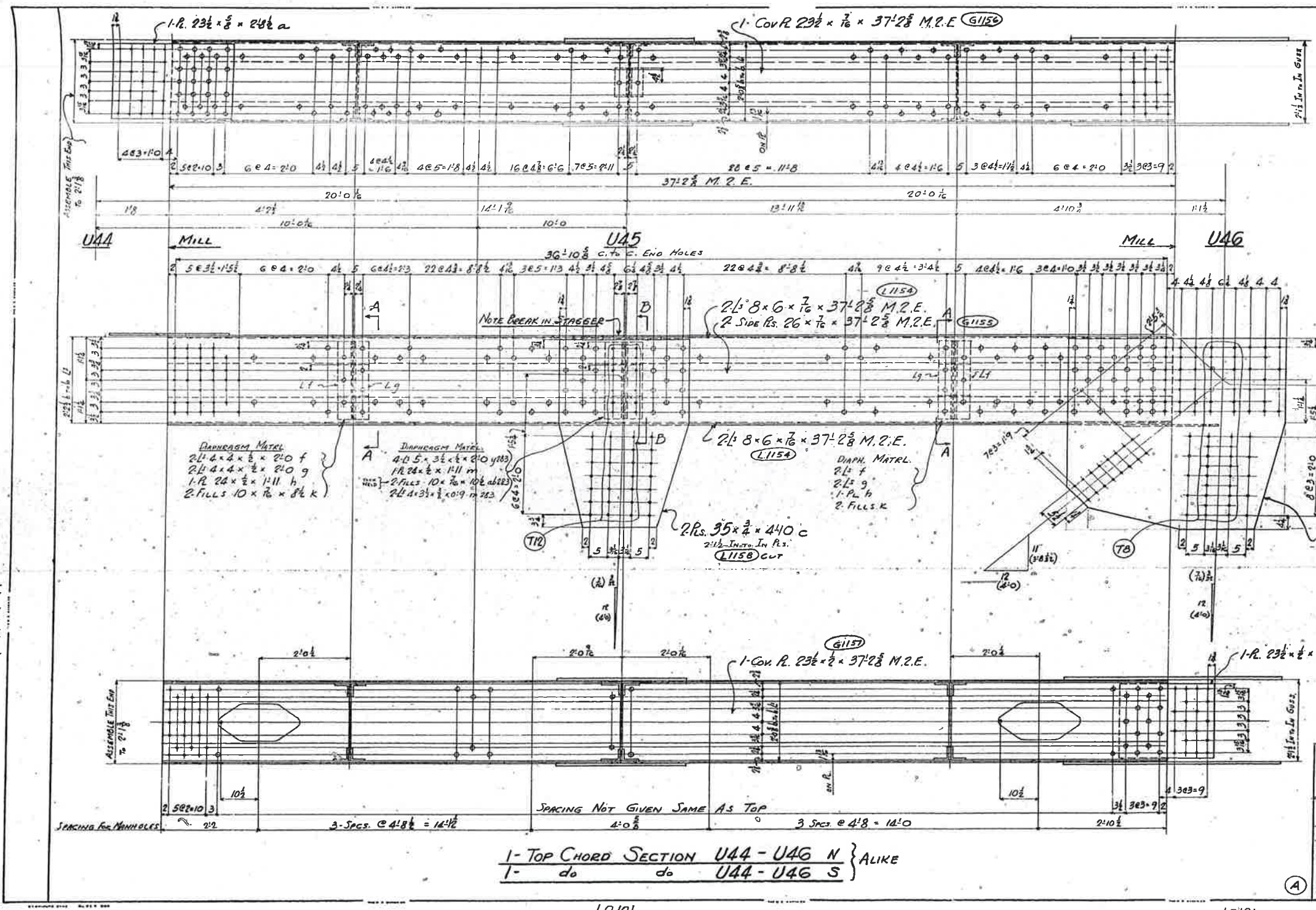
U42 N'S  
U43 N'S  
U44 N'S

L071

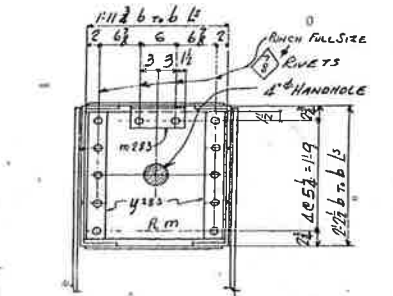
L0100 10222

L0100





SECTION A-A



SECTION B-B

U45 N&S  
U46 N&S

NOTES:  
FOR GENERAL NOTES SEE SH # 283  
FOR DETAIL OF MANHOLE SEE SH # 283

**THE R. C. MAHON COMPANY**  
DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**  
MAIN AVENUE BRIDGE  
CLEVELAND, OHIO  
TOP CHORD U44-U46 SPAN # 5  
Made by H.F.M. Checked by G.A.K. Date 10-15-38  
Shop Rivets 1/4" SEE NOTE Shop Paint SEE NOTE  
Open Holes 1/4" SEE NOTE Field Paint  
CONTRACT 37237 SHEET No. 284

1- TOP CHORD SECTION U44 - U46 N } ALIKE  
1- do do U44 - U46 S }

L0100

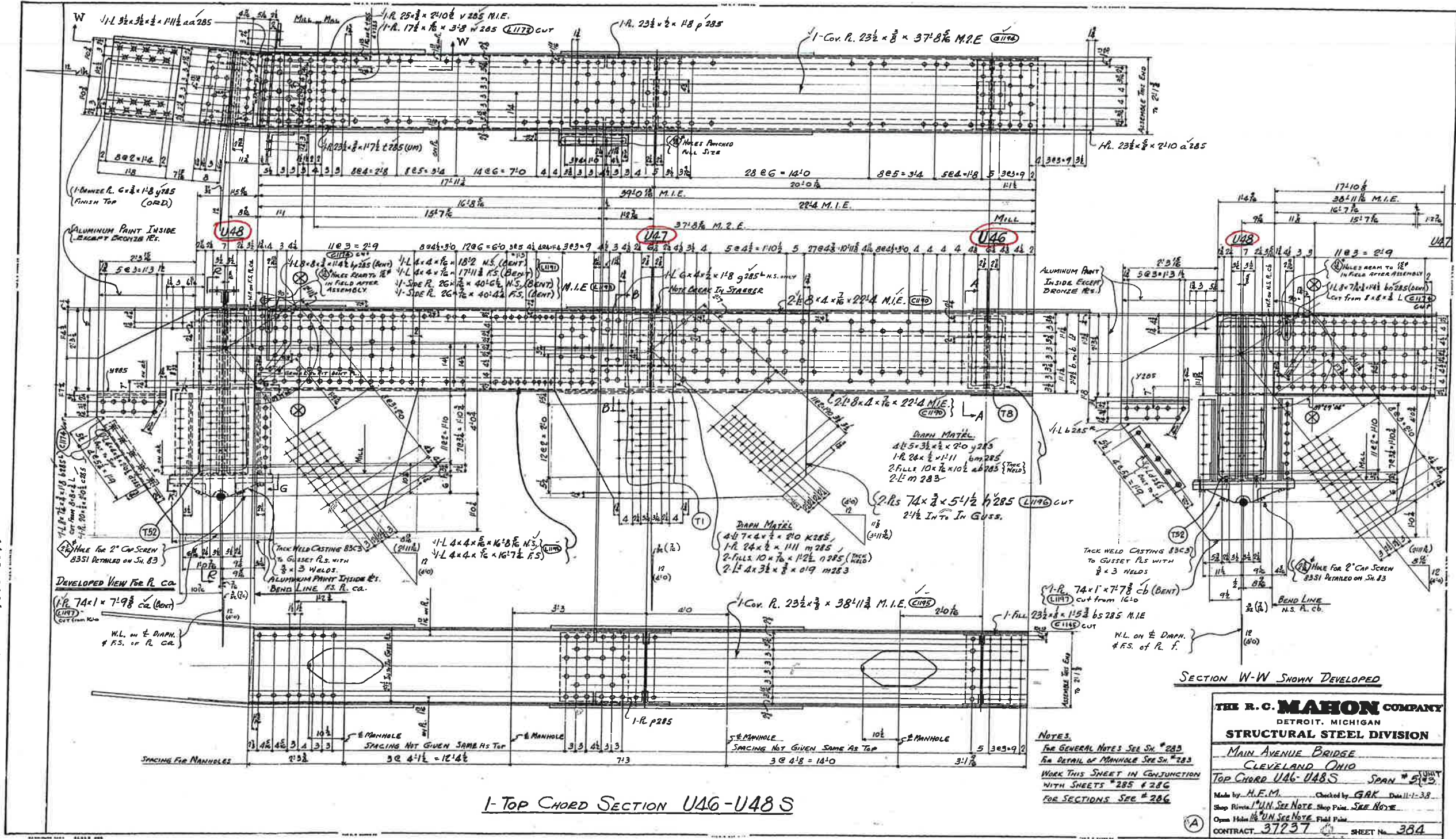
L0101

L0101









1-TOP CHORD SECTION U46-U48S

SECTION W-W SHOWN DEVELOPED

**THE R. C. MAHON COMPANY**  
DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**

MAIN AVENUE BRIDGE  
CLEVELAND OHIO  
TOP CHORD U46-U48S SPAN # 51113

Made by H.E.M. Checked by G.A.K. Date 11-1-38  
Shop Rivet 1/4" UN. SEE NOTE Shop Paint SEE NOTE  
Open Hole 1/4" UN. SEE NOTE Field Paint SEE NOTE  
CONTRACT 37237 SHEET No. 384

NOTES:  
FOR GENERAL NOTES SEE SH. # 283  
FOR DETAIL OF MANHOLE SEE SH. # 283  
WORK THIS SHEET IN CONJUNCTION  
WITH SHEETS # 285 & 286  
FOR SECTIONS SEE # 286

L0103 L0227 L0101 L0101

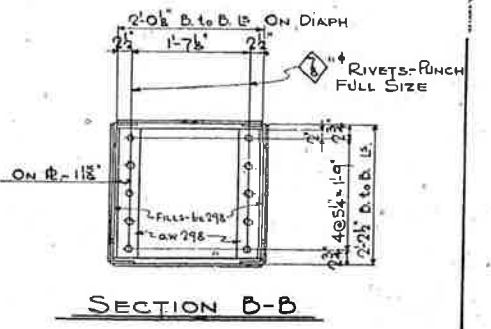
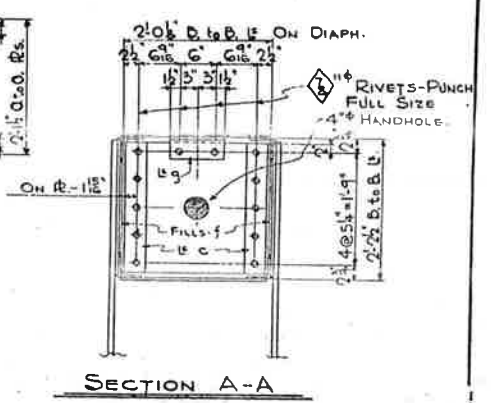
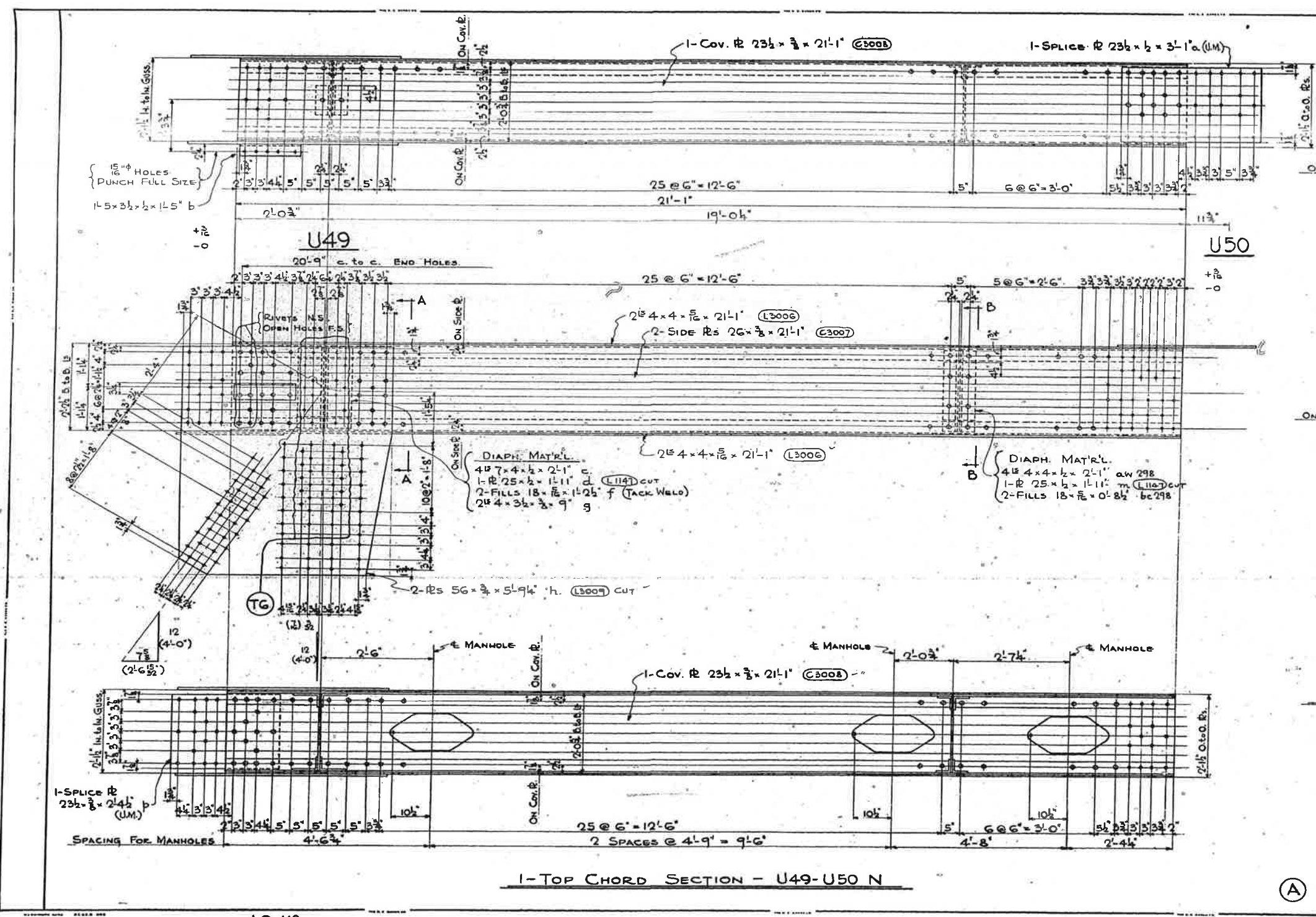
U48S

U47S

~~U46S~~

U48 S  
U47 S  
~~U46 S~~





U49 N

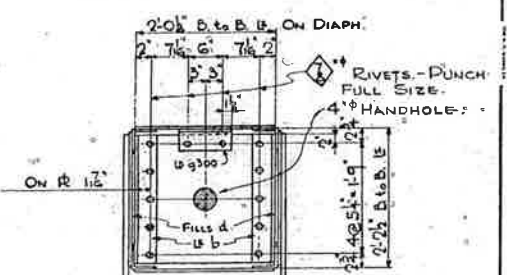
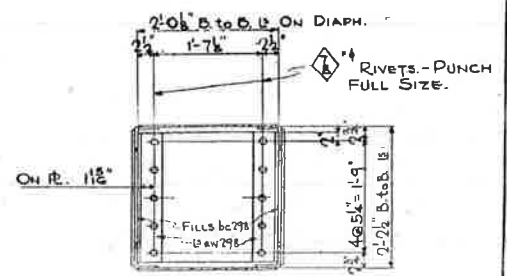
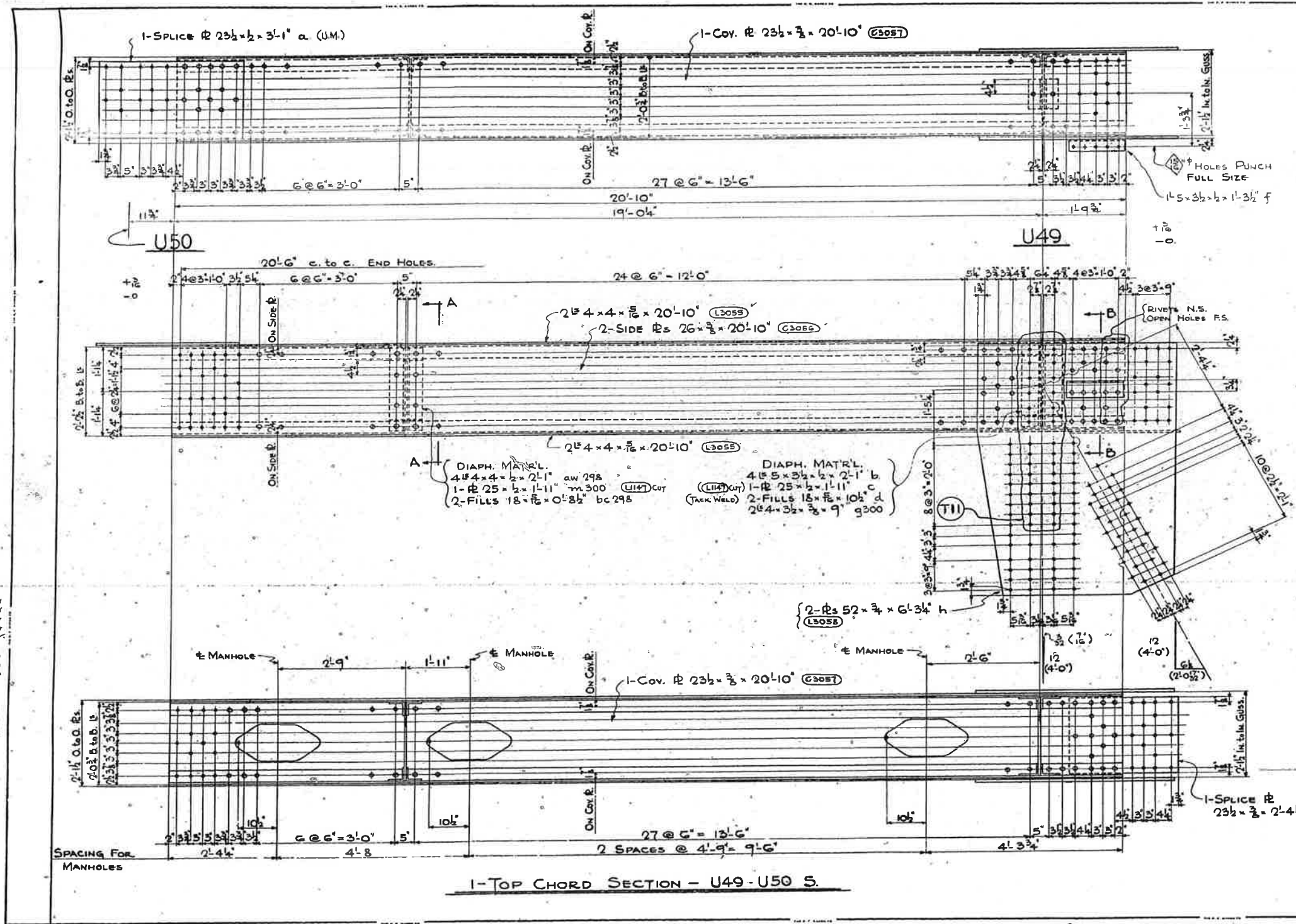
NOTES:-  
FOR GENERAL NOTES SEE SH. 298  
FOR DETAIL OF MANHOLE SEE SH. 298

**THE R. C. MAHON COMPANY**  
DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**  
MAIN AVENUE BRIDGE  
CLEVELAND, OHIO  
TOP CHORD U49-U50 NORTH - SPAN #6  
Made by JACK Checked by GAK Date 10-24-38  
Shop Rivets UN. SEE NOTES Shop Paint SEE NOTE  
Open Holes UN. SEE NOTES Field Paint  
CONTRACT 37237 SHEET NO. 300

LO-112

LO-113





U49 S

NOTES:-  
 FOR GENERAL NOTES SEE SHEET 298  
 FOR DETAIL OF MANHOLE SEE SH. 298

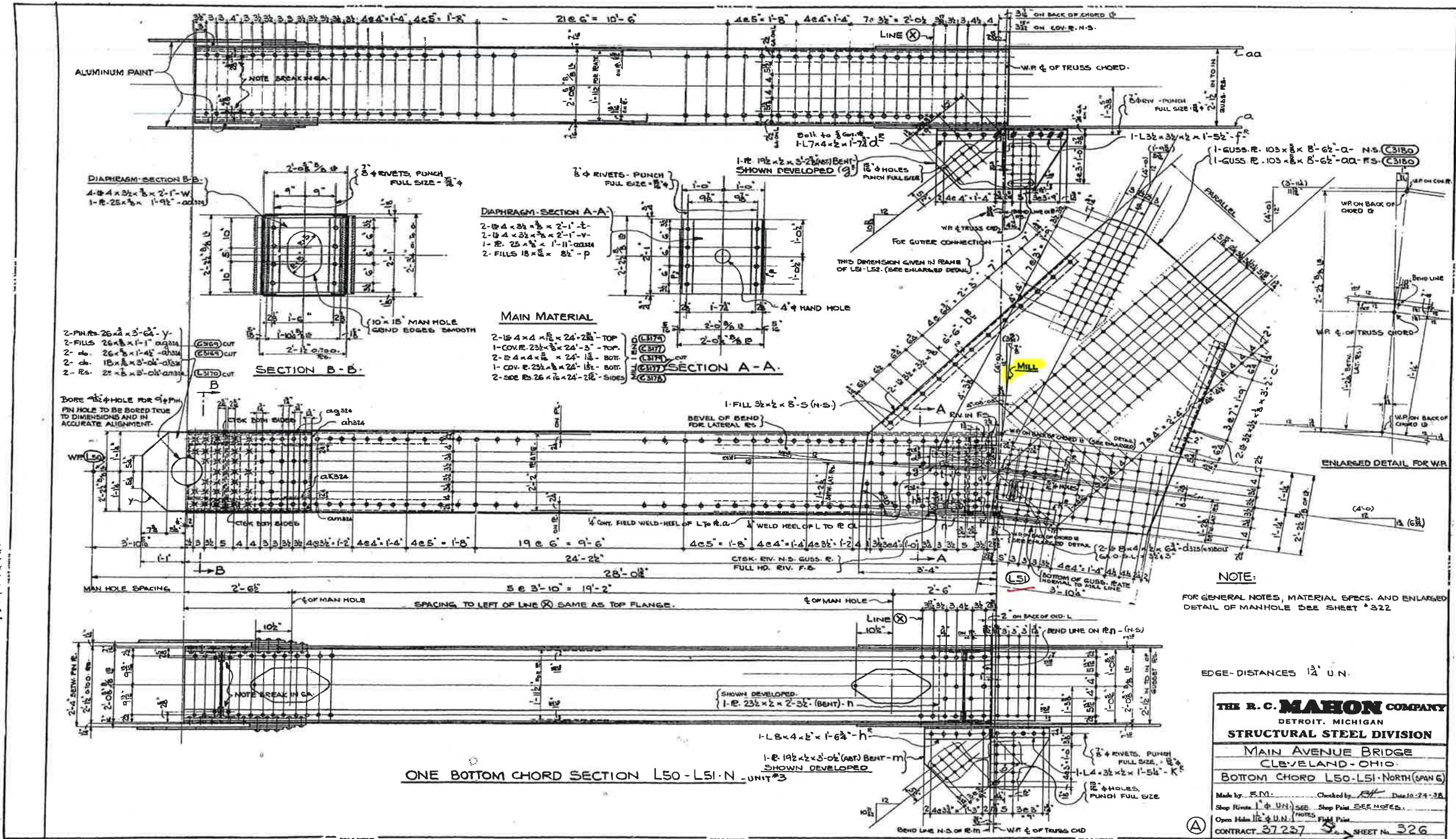
<b>THE R. C. MAHON COMPANY</b>	
DETROIT, MICHIGAN	
<b>STRUCTURAL STEEL DIVISION</b>	
MAIN AVENUE BRIDGE	
CLEVELAND, OHIO	
TOP CHORD U49-U50 SOUTH - SPAN #6	
Made by: TACK	Checked by: GPK Date: 2-28-38
Shop Rivets: UN, SEE NOTE Shop Paint: SEE NOTE	
Open Holes: UN, SEE NOTE Field Paint:	
CONTRACT: 37237	SHEET No. 301

LO-113

LO-112

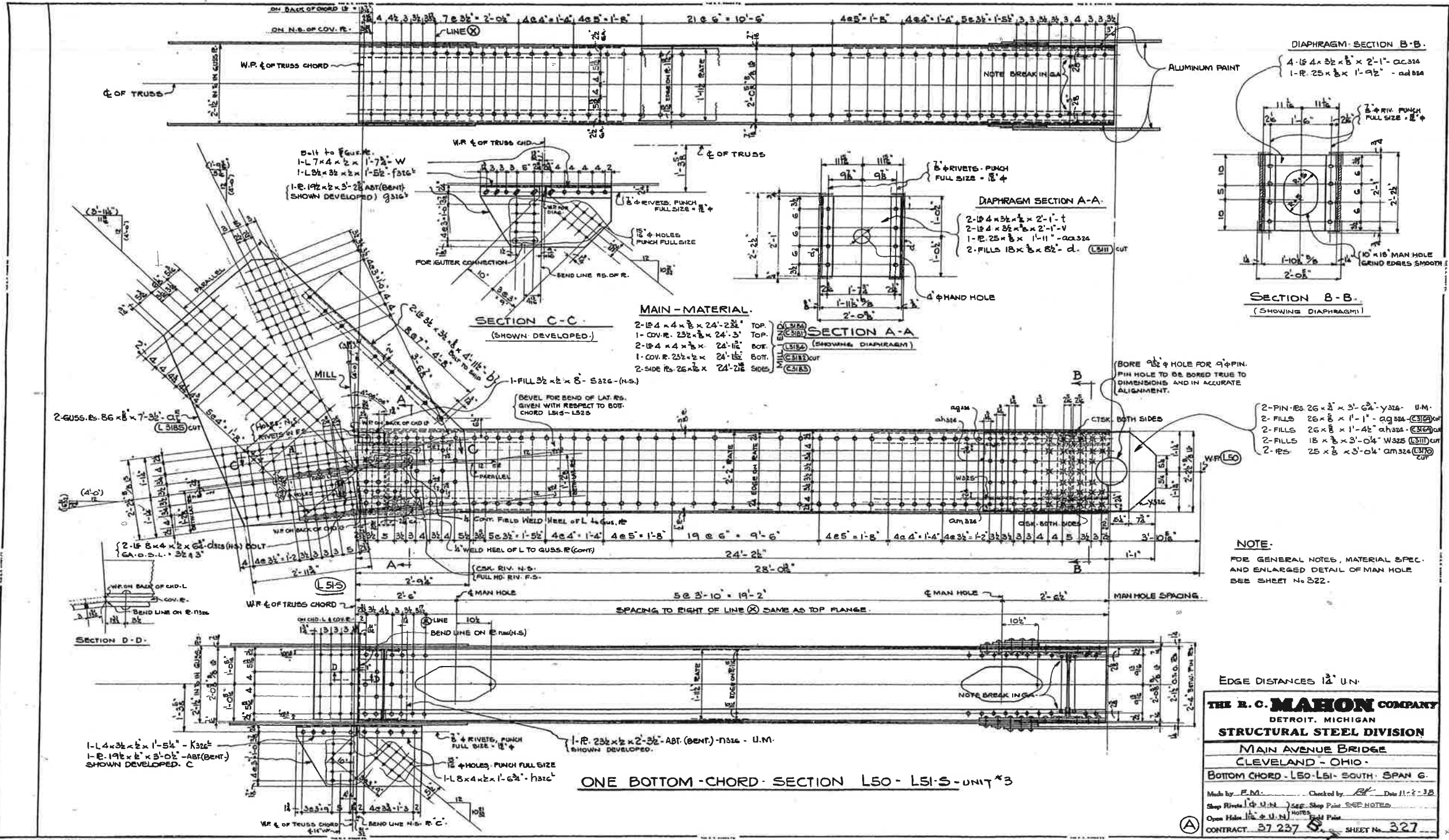
1-TOP CHORD SECTION - U49-U50 S.





L51 N



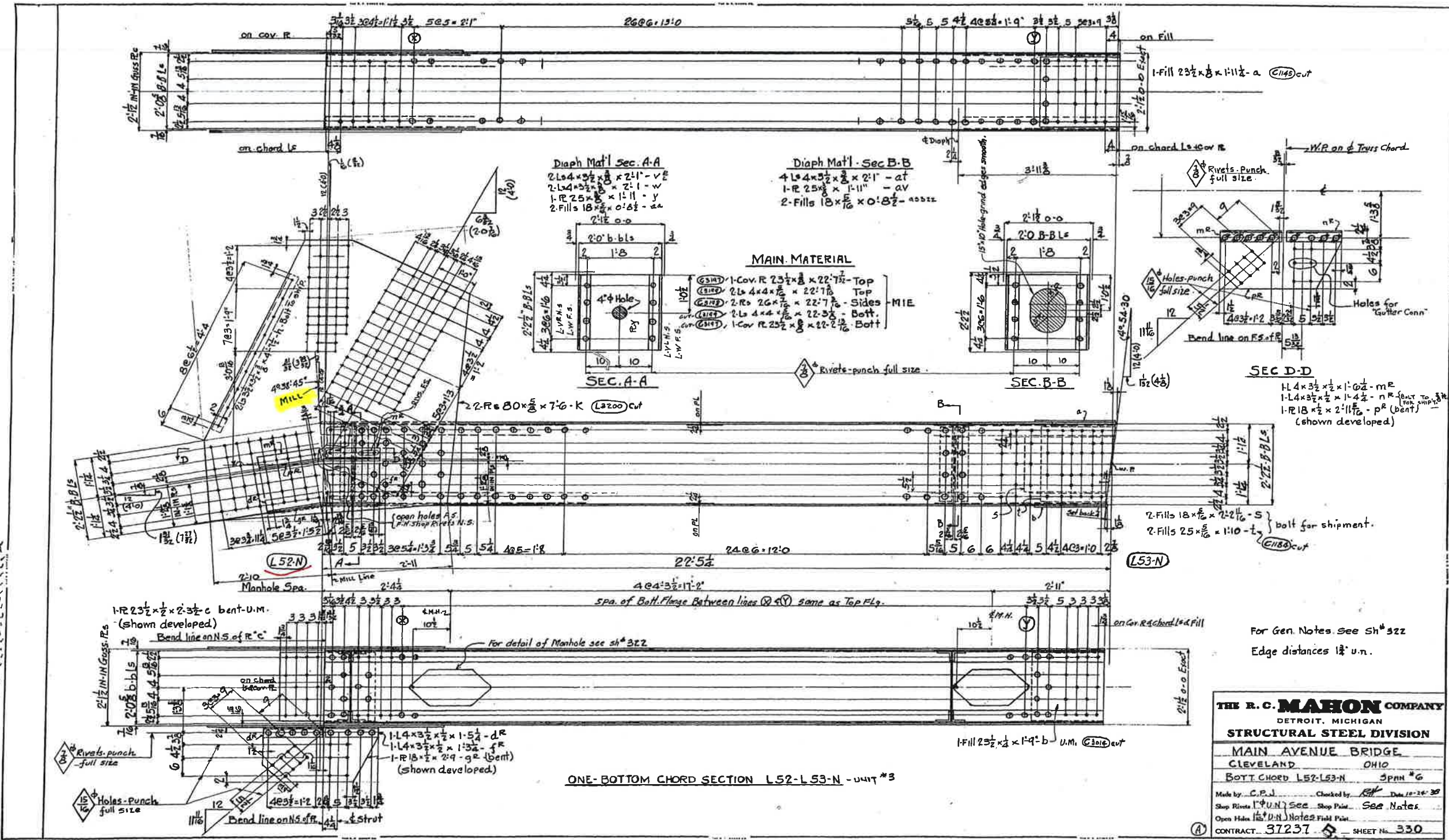


LO 146

LO 121

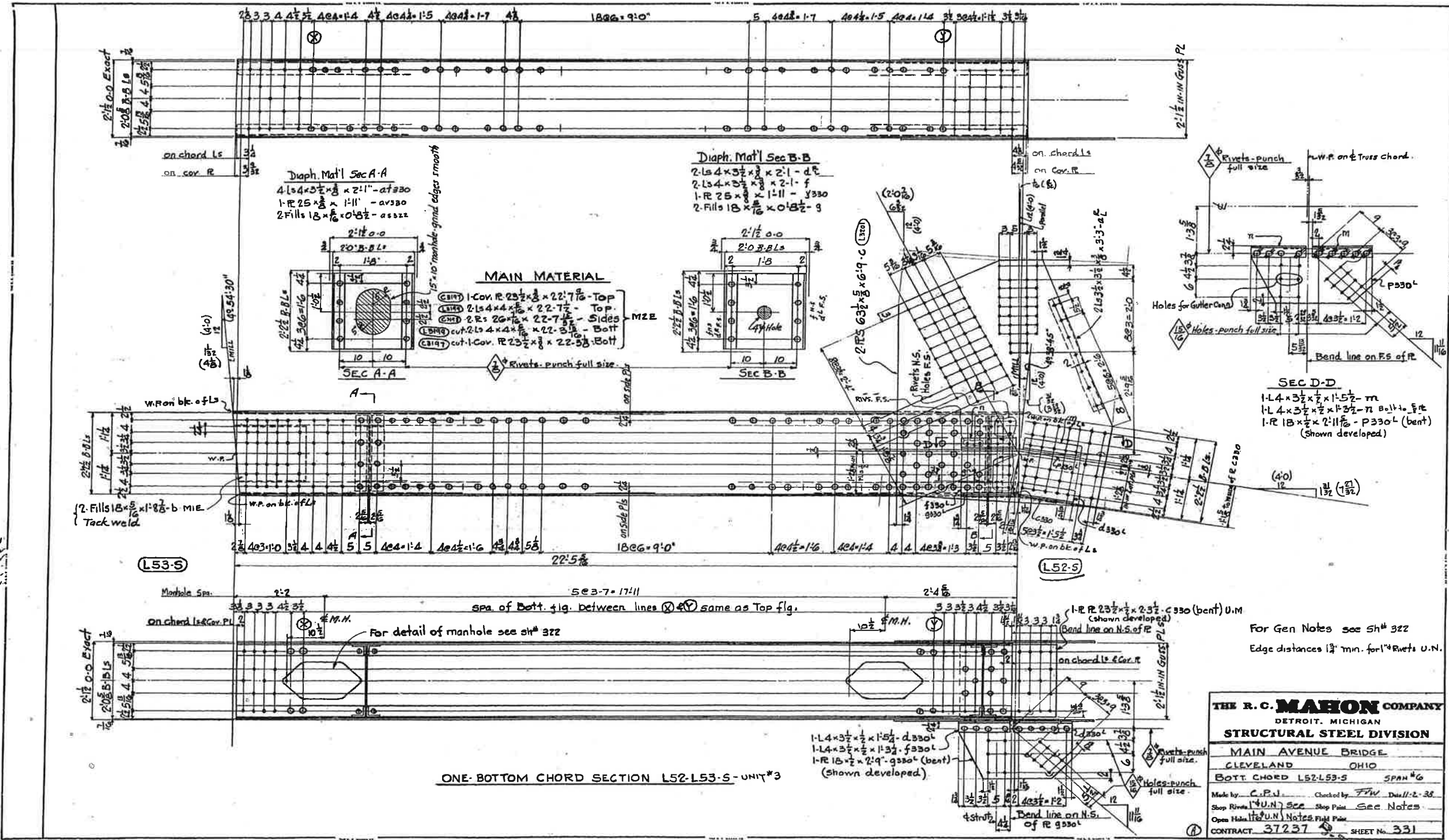
L51 S





L52 N





**THE R. C. MAHON COMPANY**  
 DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**

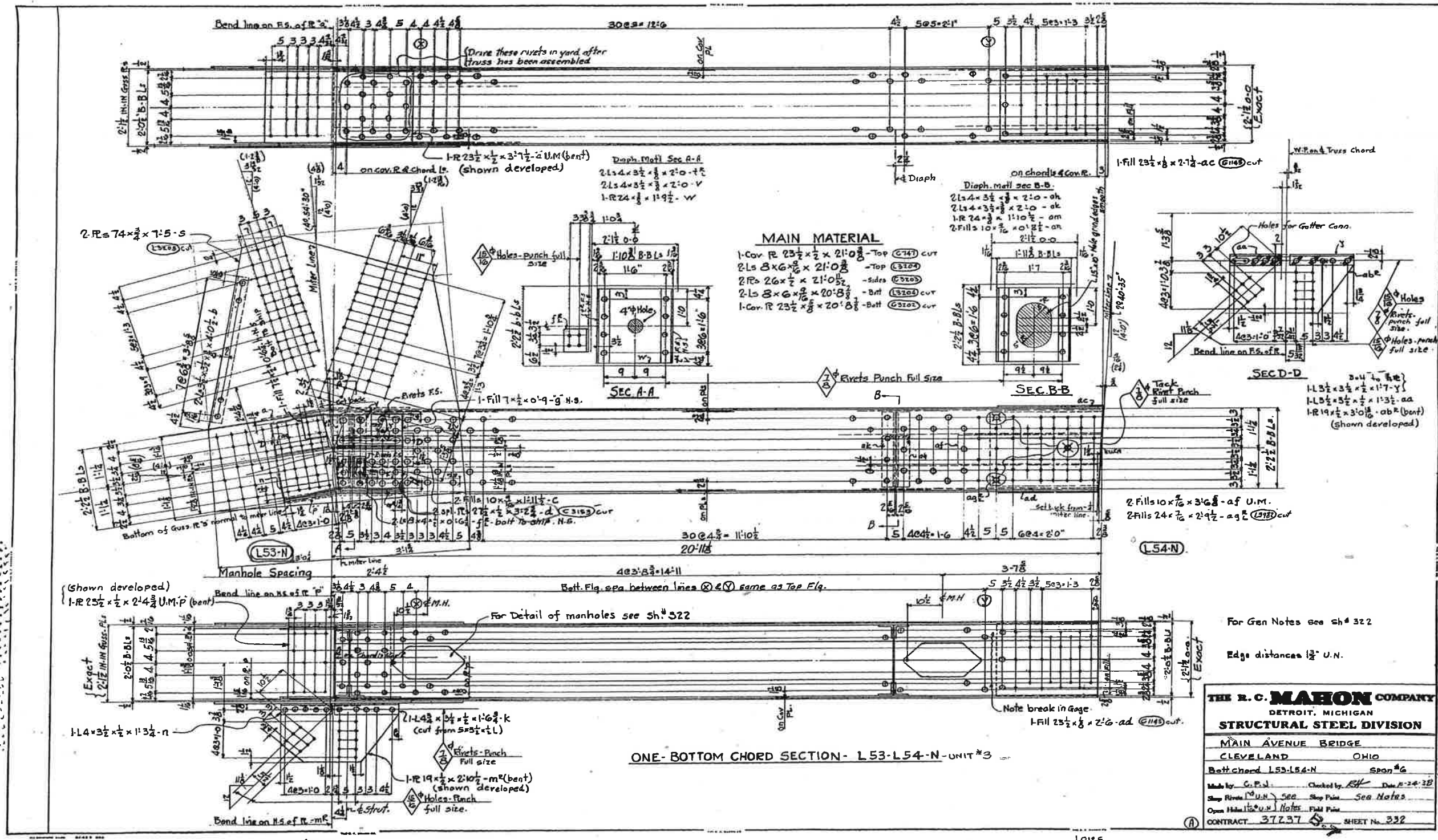
**MAIN AVENUE BRIDGE**  
 CLEVELAND OHIO  
**BOTT CHORD L52-L53-S SPAN #6**

Made by C.P.J. Checked by F.W. Dull 12-28  
 Shop Rivets (U.N.) See Shop Print See Notes  
 Open Holes (U.N.) Notes, Field Print

CONTRACT 37237 SHEET No. 331

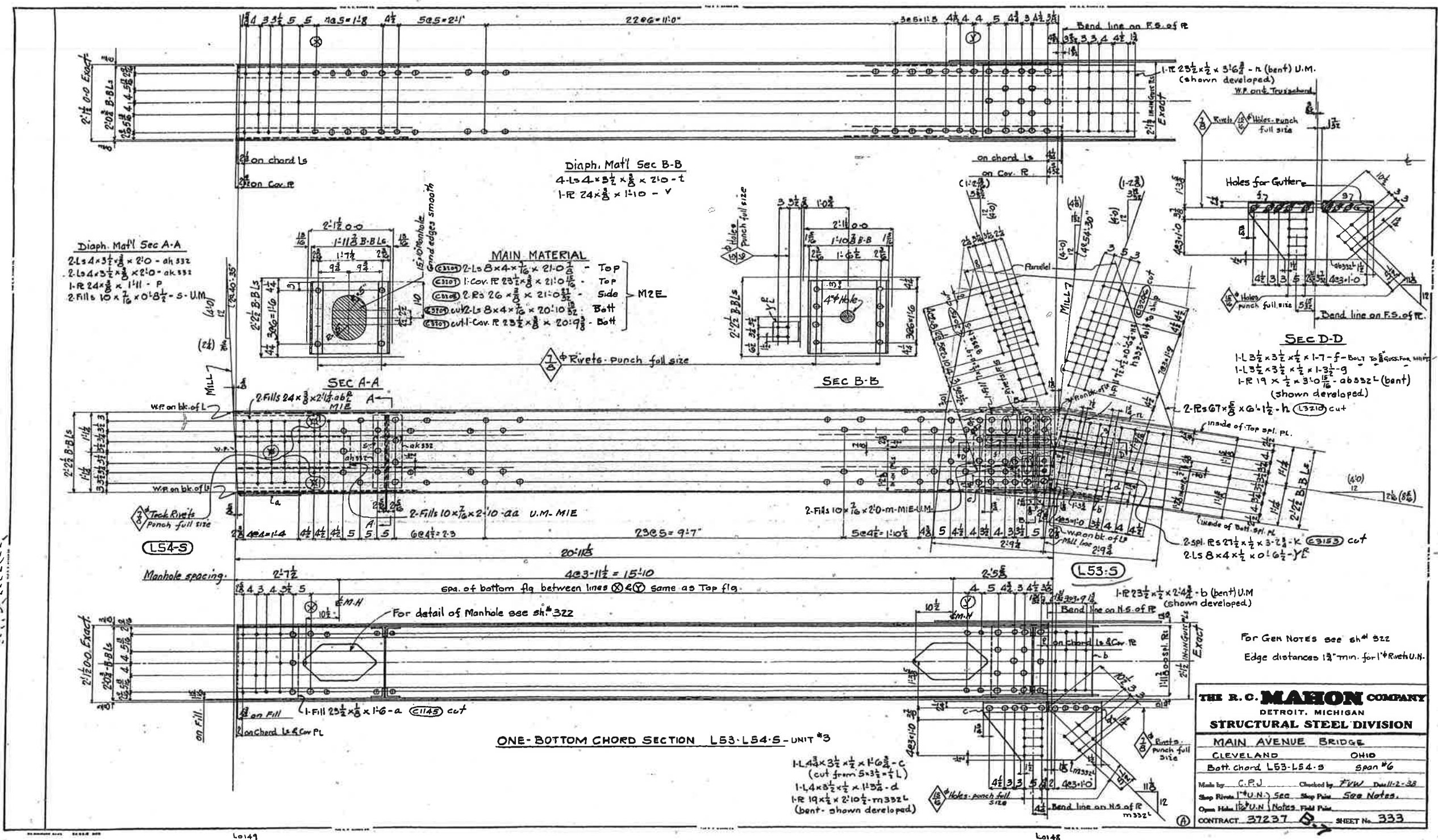
L52 S





L53 N





L53 S





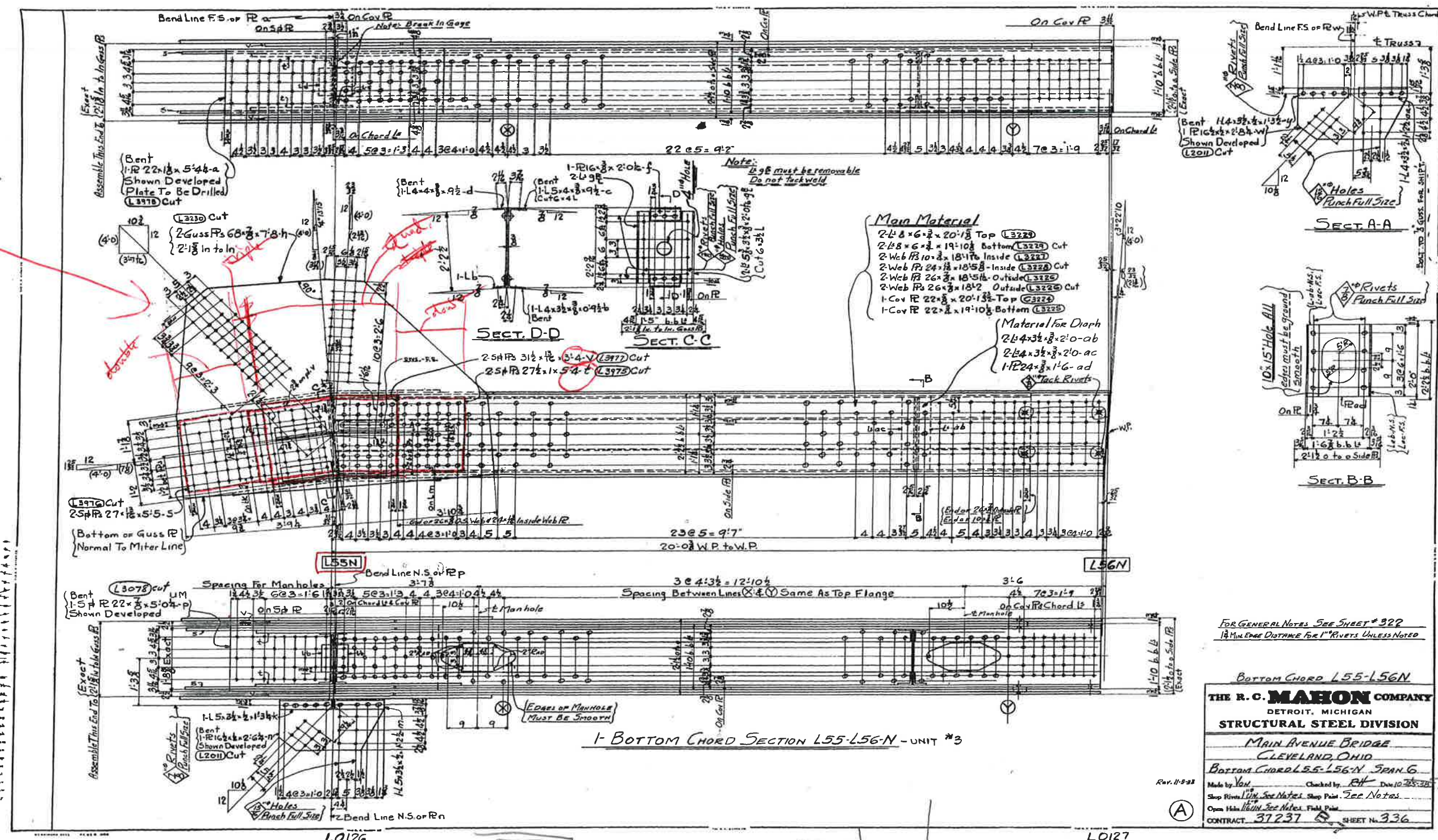






all double shear

L54-L55



FOR GENERAL NOTES SEE SHEET # 322  
1/8" MIN EDGE DISTANCE FOR 1" RIVETS UNLESS NOTED

BOTTOM CHORD L55-L56N

**THE R. C. MAHON COMPANY**  
DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**

MAIN AVENUE BRIDGE  
CLEVELAND, OHIO  
BOTTOM CHORD L55-L56-N SPAN 6

Rev. 11-23  
Made by Yon. Checked by RH. Date 10-25-28  
Shop Rivets 1/16" See Notes. Shop Paint. See Notes.  
Open Hole Width. See Notes. Field Paint.

CONTRACT 31237 SHEET No. 336

L55 N









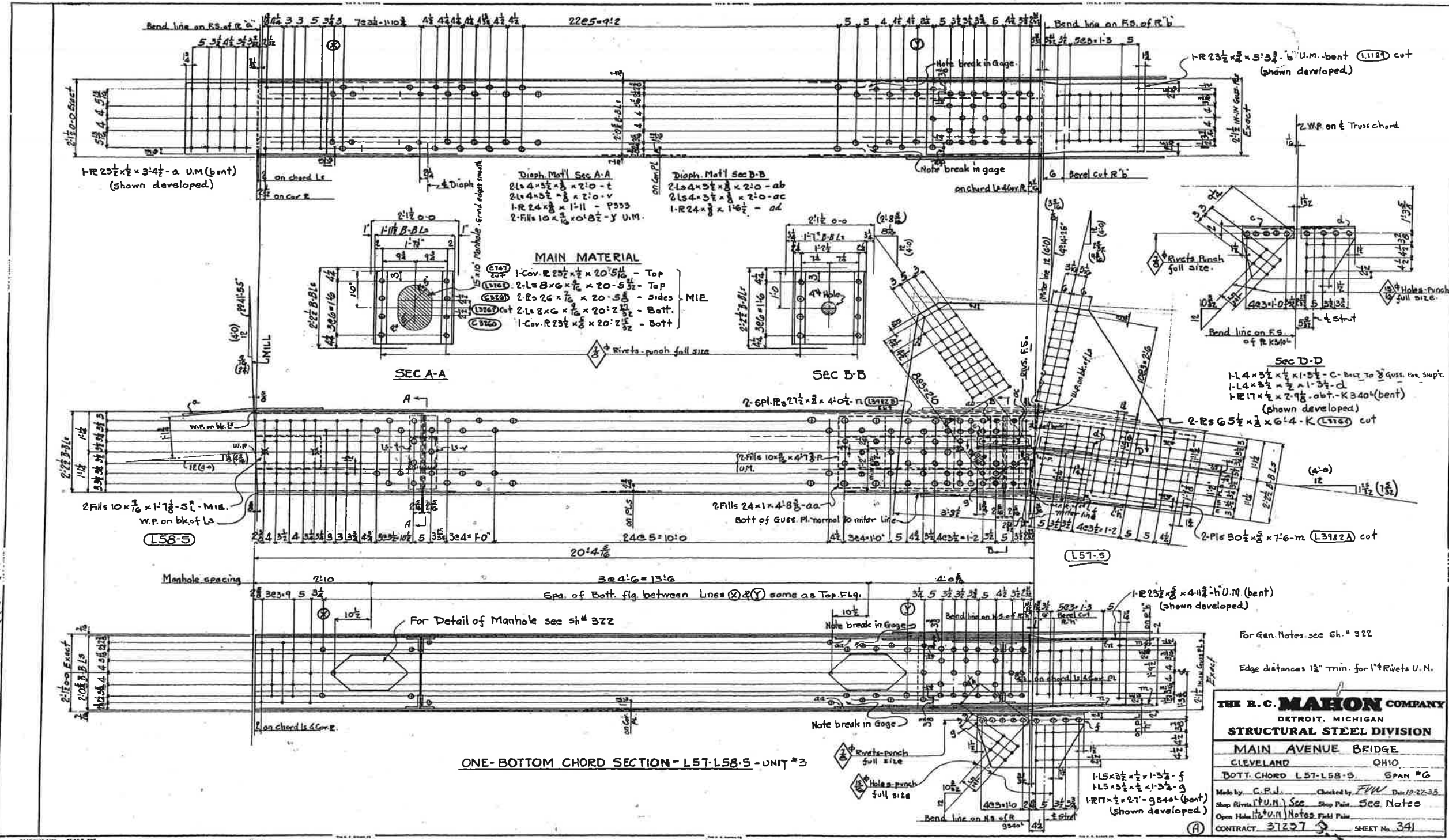












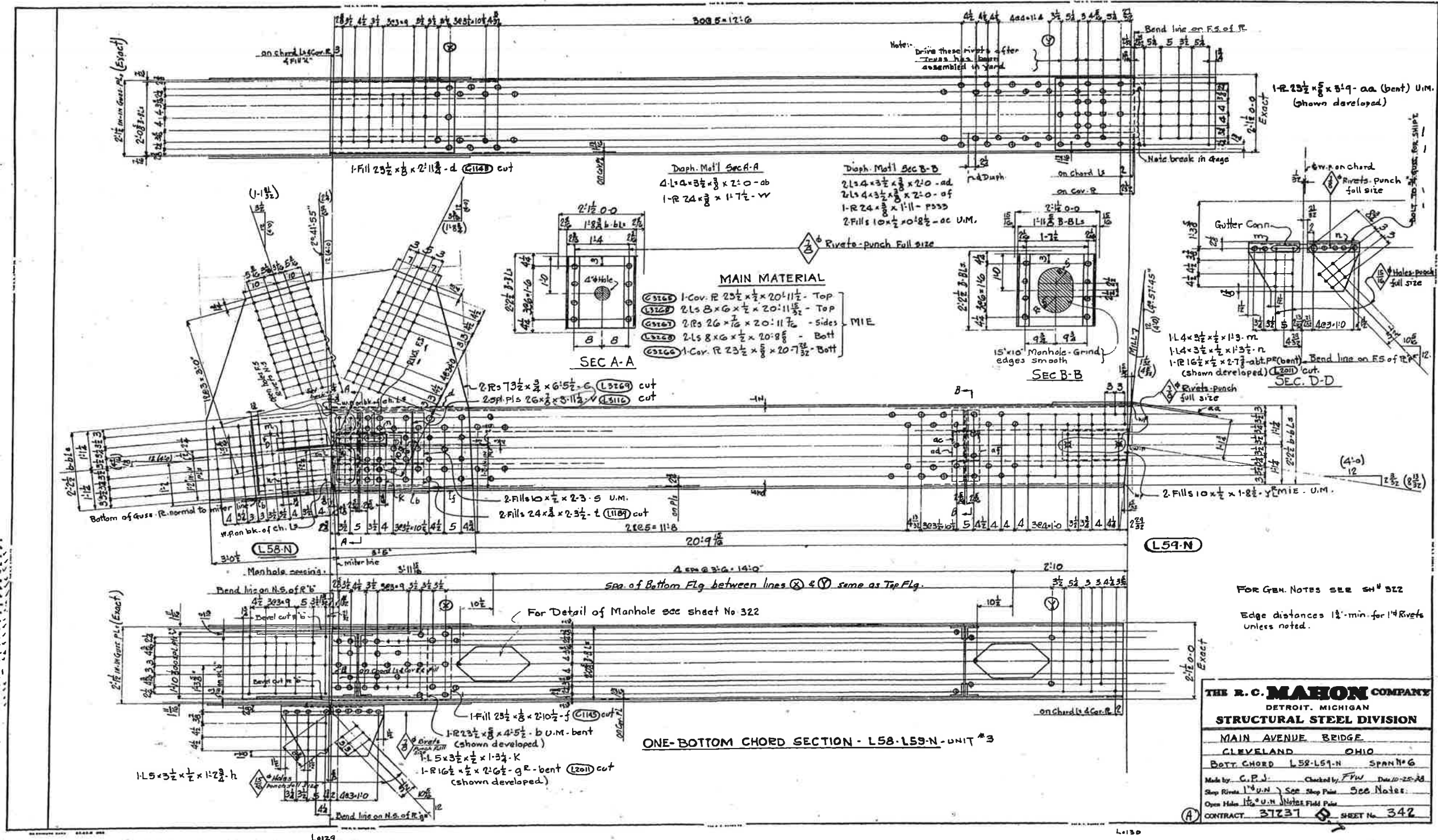
L57 S

**THE R. C. MAHON COMPANY**  
 DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**  
 MAIN AVENUE BRIDGE  
 CLEVELAND OHIO  
 BOTT. CHORD L57-L58-S SPAN #6

Made by: C.P.J. Checked by: F.W. Date: 10-22-35  
 Shop Rivets (P.U.M.) See Shop Print See Notes  
 Open Holes (U.M.) Notes Field Print

CONTRACT 31237 SHEET No. 341





L 58 N

FOR GEN. NOTES SEE SH # 312

Edge distances 1 1/2" min. for 1/4" Rivets unless noted.

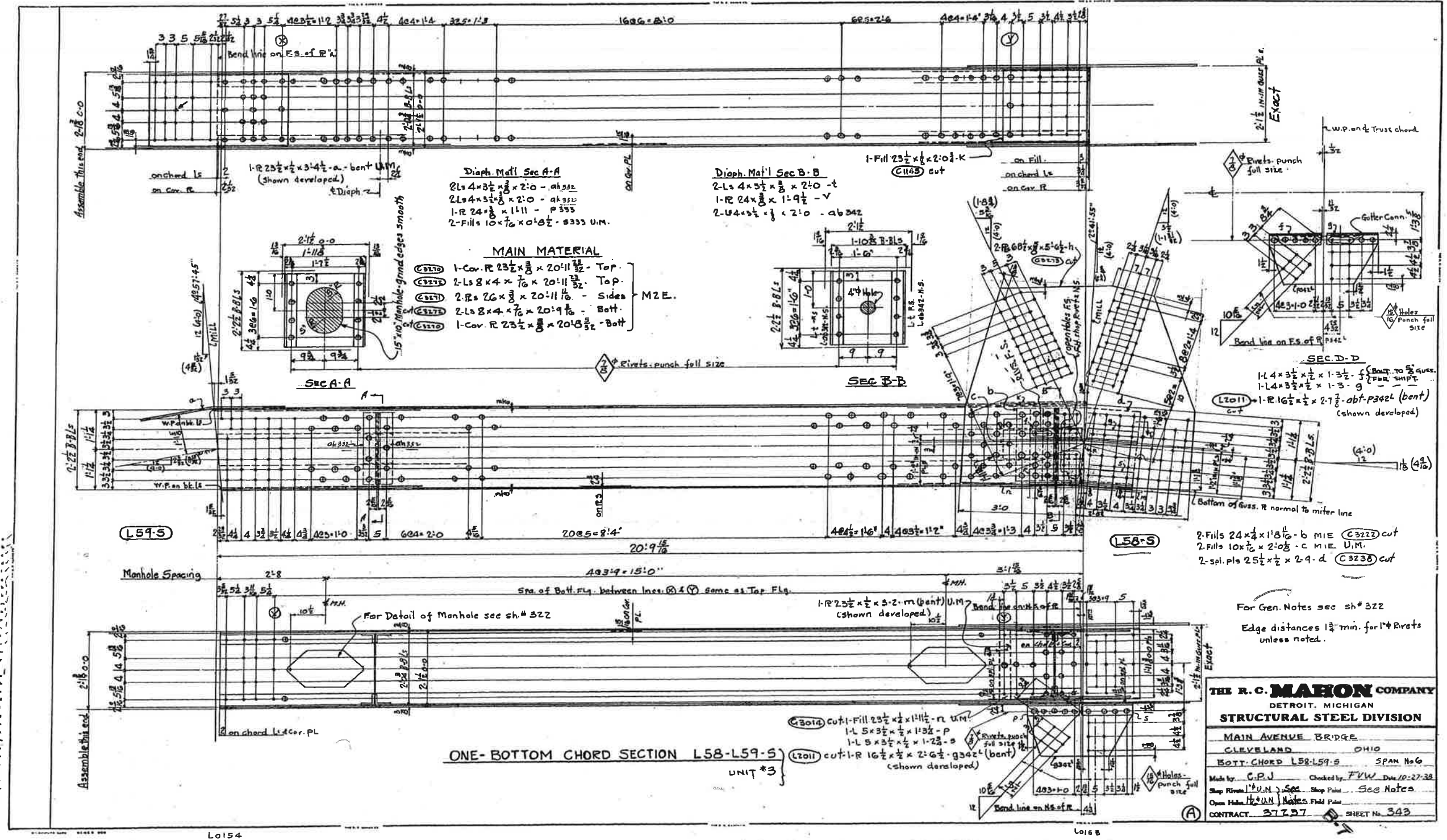
**THE R. C. MAHON COMPANY**  
 DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**

MAIN AVENUE BRIDGE  
 CLEVELAND, OHIO  
 BOT. CHORD L58-L59-N SPAN #6

Made by: C.P.J. Checked by: F.W. Date: 10-25-38  
 Shop Rivets: 1 1/2" U.N. See Shop Print See Notes.  
 Open Hole: 1 1/2" U.N. Where Field Plate

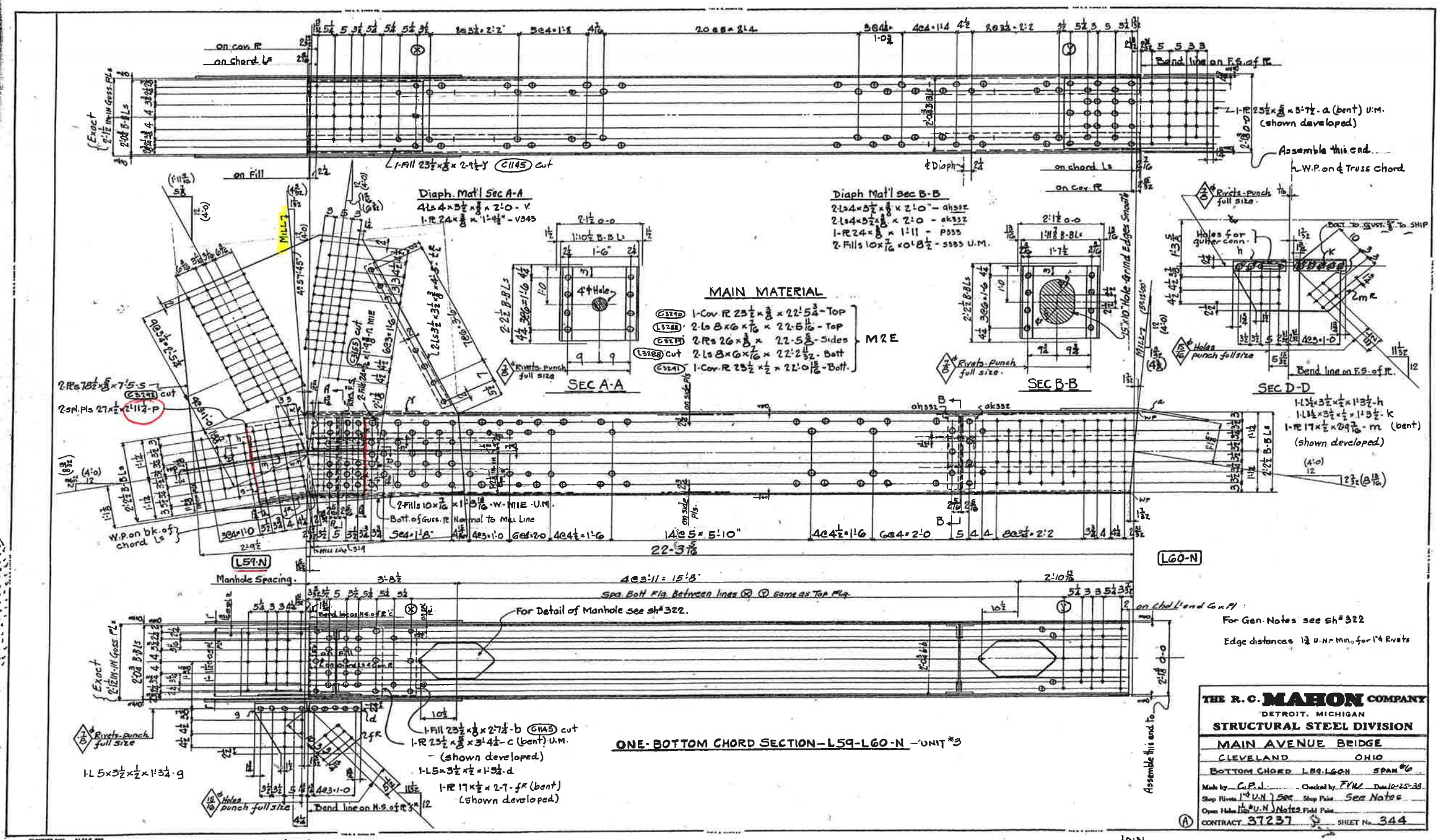
CONTRACT 3727 SHEET No 342





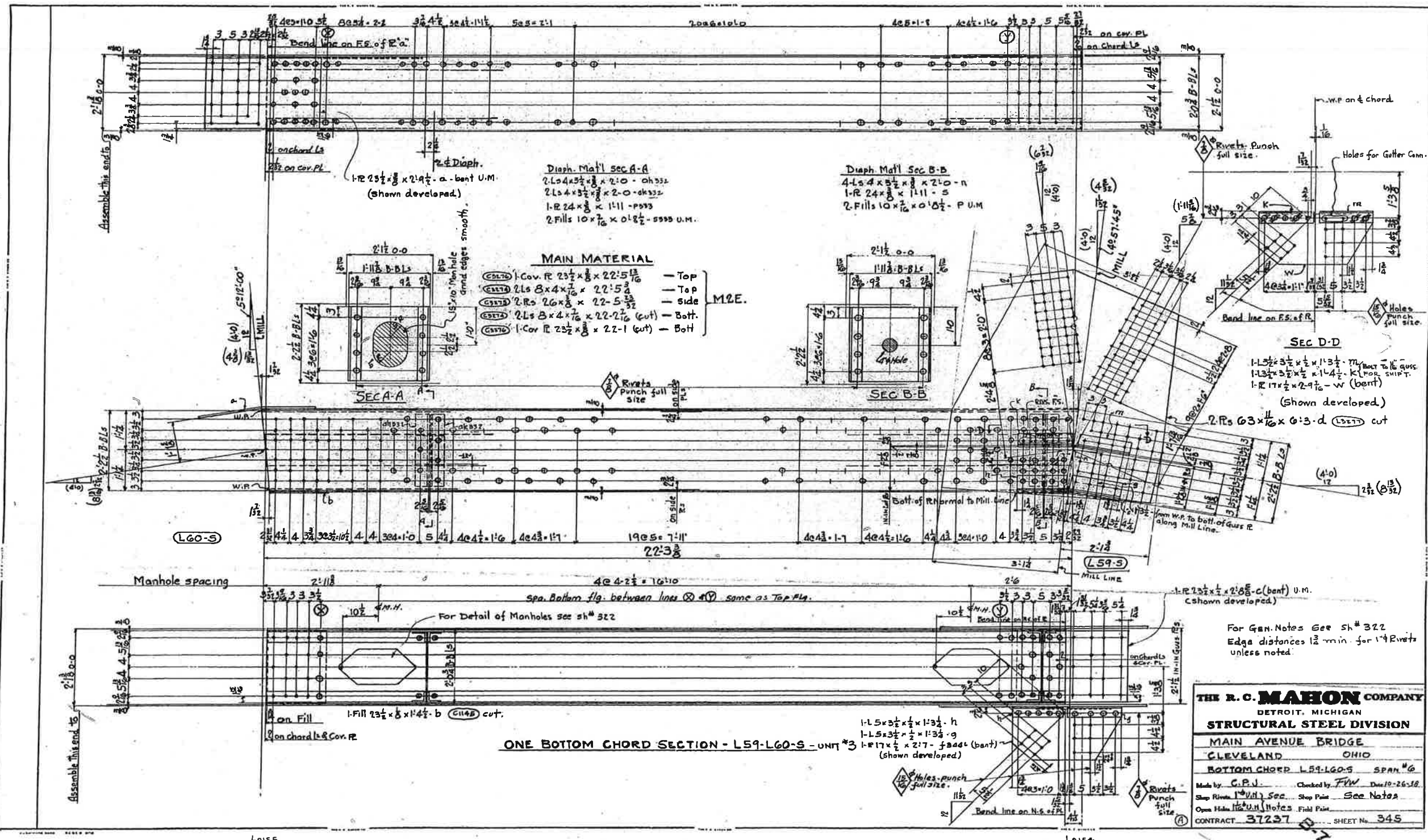
L58 S





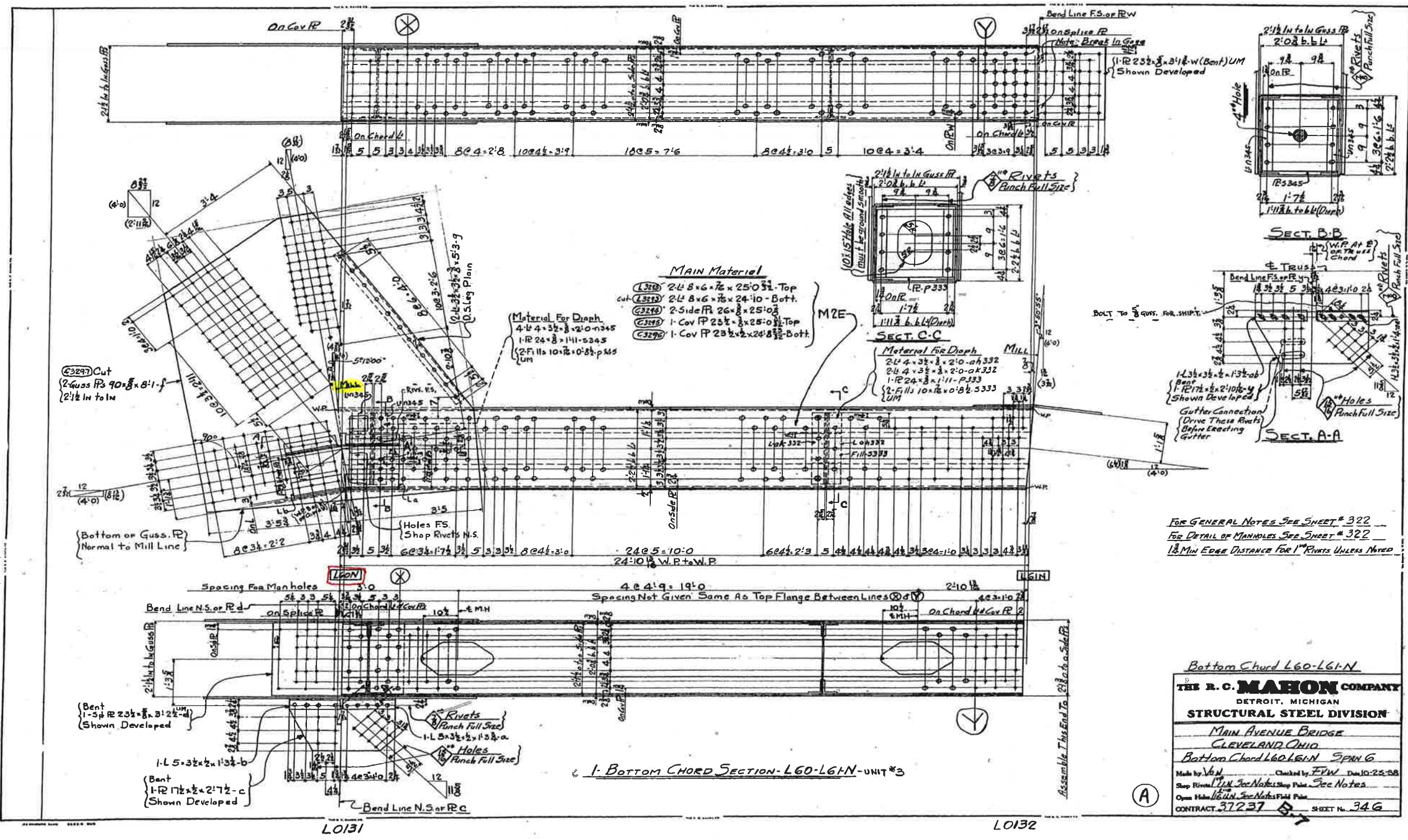
L59 N





L59 S





L60 N

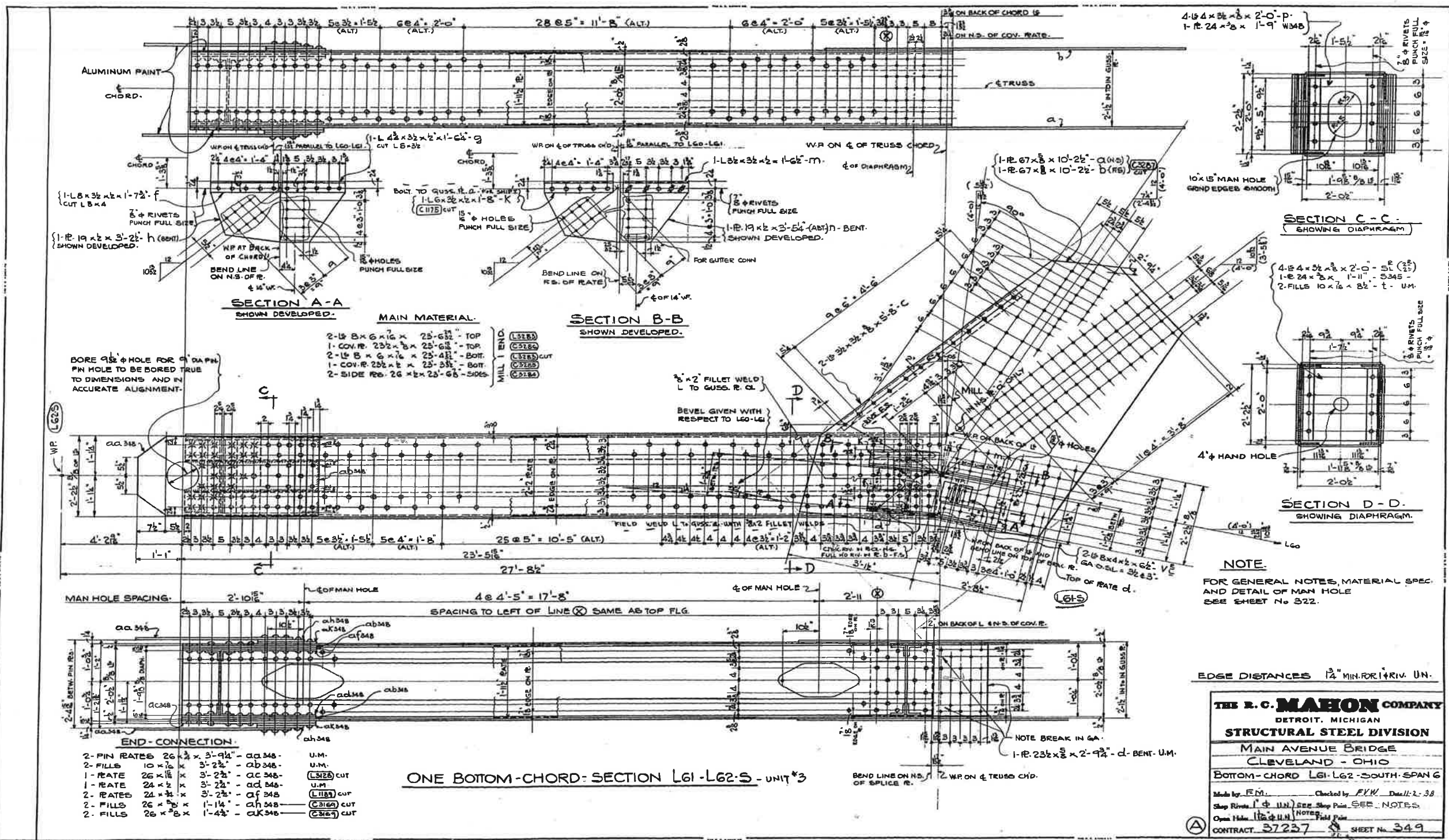












LO157

LO156

L61 S





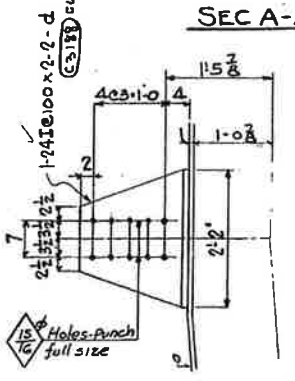
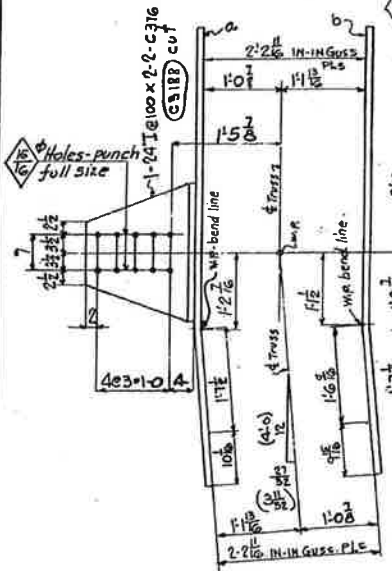
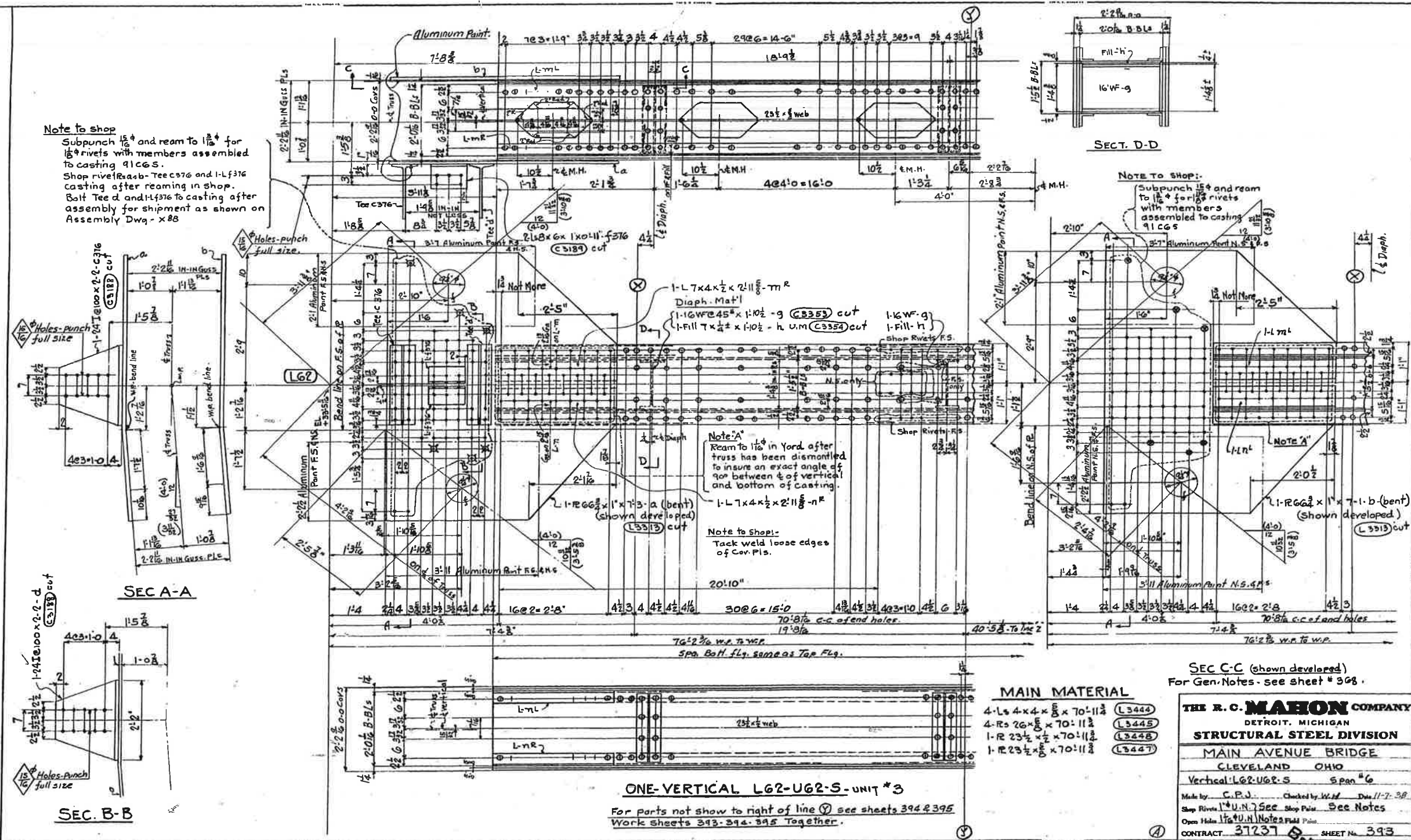


Note to Shop

Subpunch 1/16" and ream to 1/8" for 1/2" rivets with members assembled to casting 91CGS.  
Shop rivets as Tee C376 and 1-LF376 casting after reaming in shop.  
Bolt Tee d and 1-LF376 to casting after assembly for shipment as shown on Assembly Dwg. X88

SECT. D-D

NOTE TO SHOP:  
Subpunch 1/16" and ream to 1/8" for 1/2" rivets with members assembled to casting 91CGS



MAIN MATERIAL

- 4-L 4x4x 5/8 x 70'-11 1/2 (L3444)
- 4-R 26x 5/8 x 70'-11 1/2 (L3445)
- 1-R 23 1/2 x 1/2 x 70'-11 1/2 (L3448)
- 1-R 23 1/2 x 5/8 x 70'-11 1/2 (L3447)

ONE-VERTICAL L62-U62-S-UNIT #3

For parts not show to right of line (Y) see sheets 394 & 395  
Work sheets 393-394-395 Together.

SEC C-C (shown developed)  
For Gen. Notes - see sheet # 398.

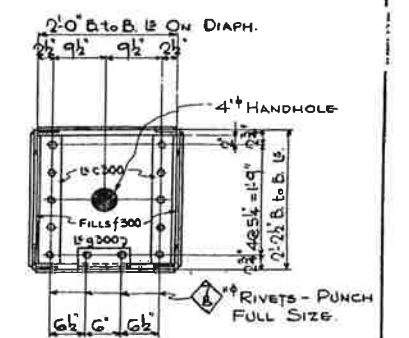
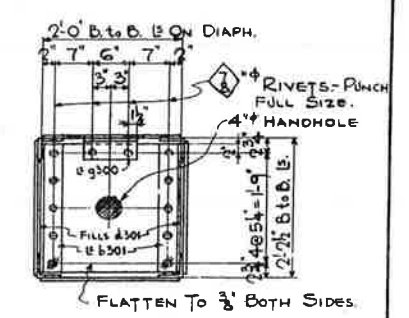
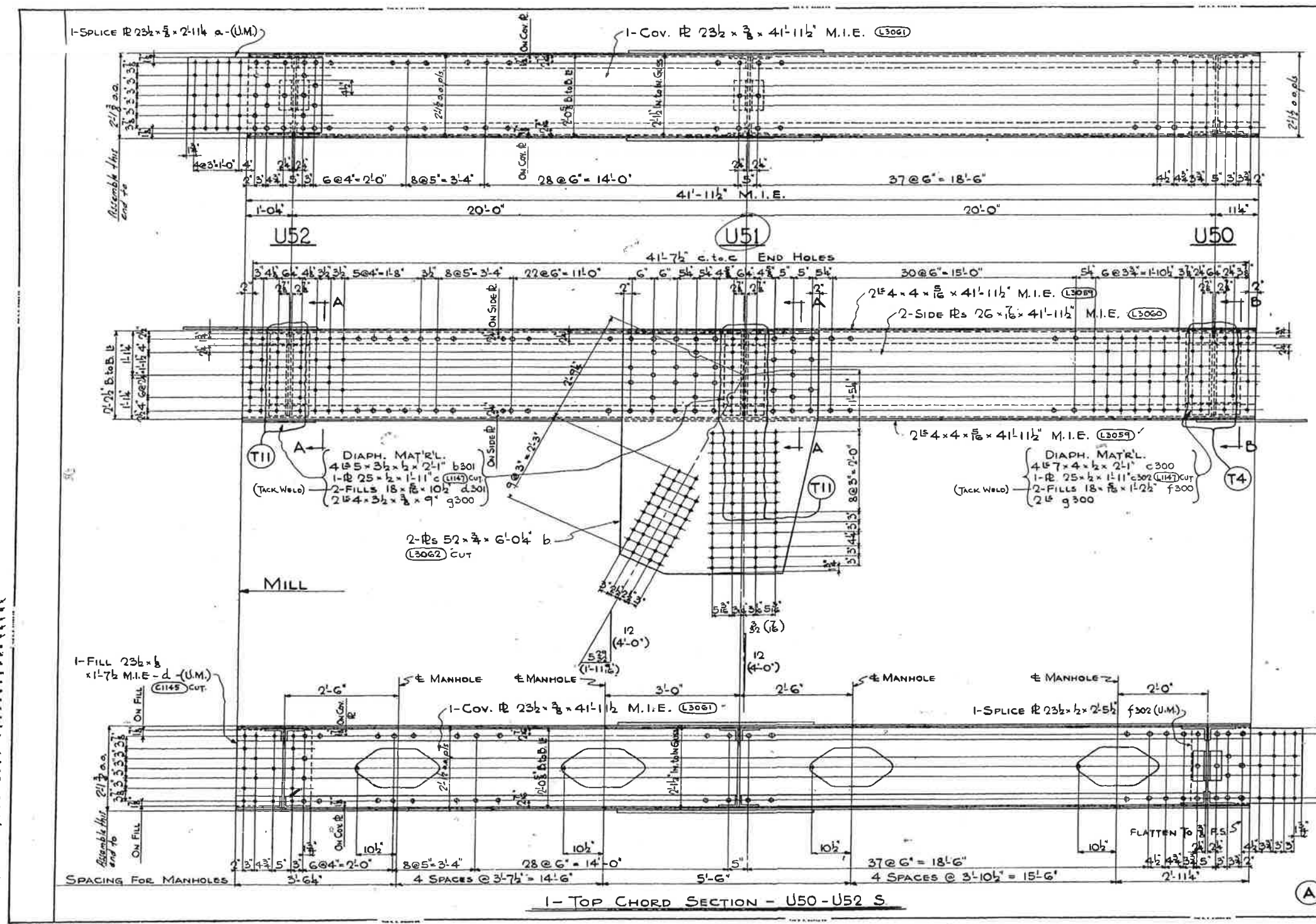
**THE R. C. MAHON COMPANY**  
DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**  
MAIN AVENUE BRIDGE  
CLEVELAND OHIO  
Vertical: L62-U62-S Span #6  
Made by: C.P.V. Checked by: W.H. Date: 11-7-38  
Shop Rivets: 1/2" U.N. See Shop Print. See Notes  
Open Holes: 1/8" U.N. Notes Field Print  
CONTRACT: 37237 SHEET No. 393

L62 S









NOTE:-  
 FOR GENERAL NOTES SEE SH. 298  
 FOR DETAIL OF MANHOLE SEE SH. 298

**THE R. C. MAHON COMPANY**  
 DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**  
 MAIN AVENUE BRIDGE  
 CLEVELAND, OHIO  
 TOP CHORD U50-U52 SOUTH - SPAN #6  
 Made by: TACK Checked by: GAK Date: 10-26-38  
 Shop Rivets: U.N. See Note: Shop Price: SEE NOTE  
 Open Holes: U.N. See Note: Field Price:  
 CONTRACT 37237 SHEET No. 303

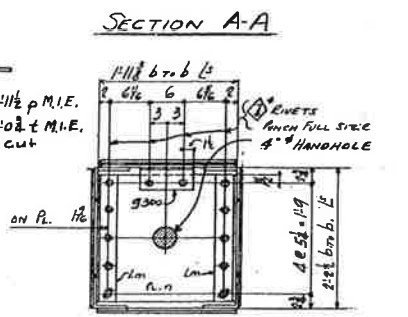
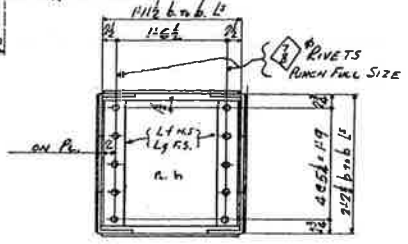
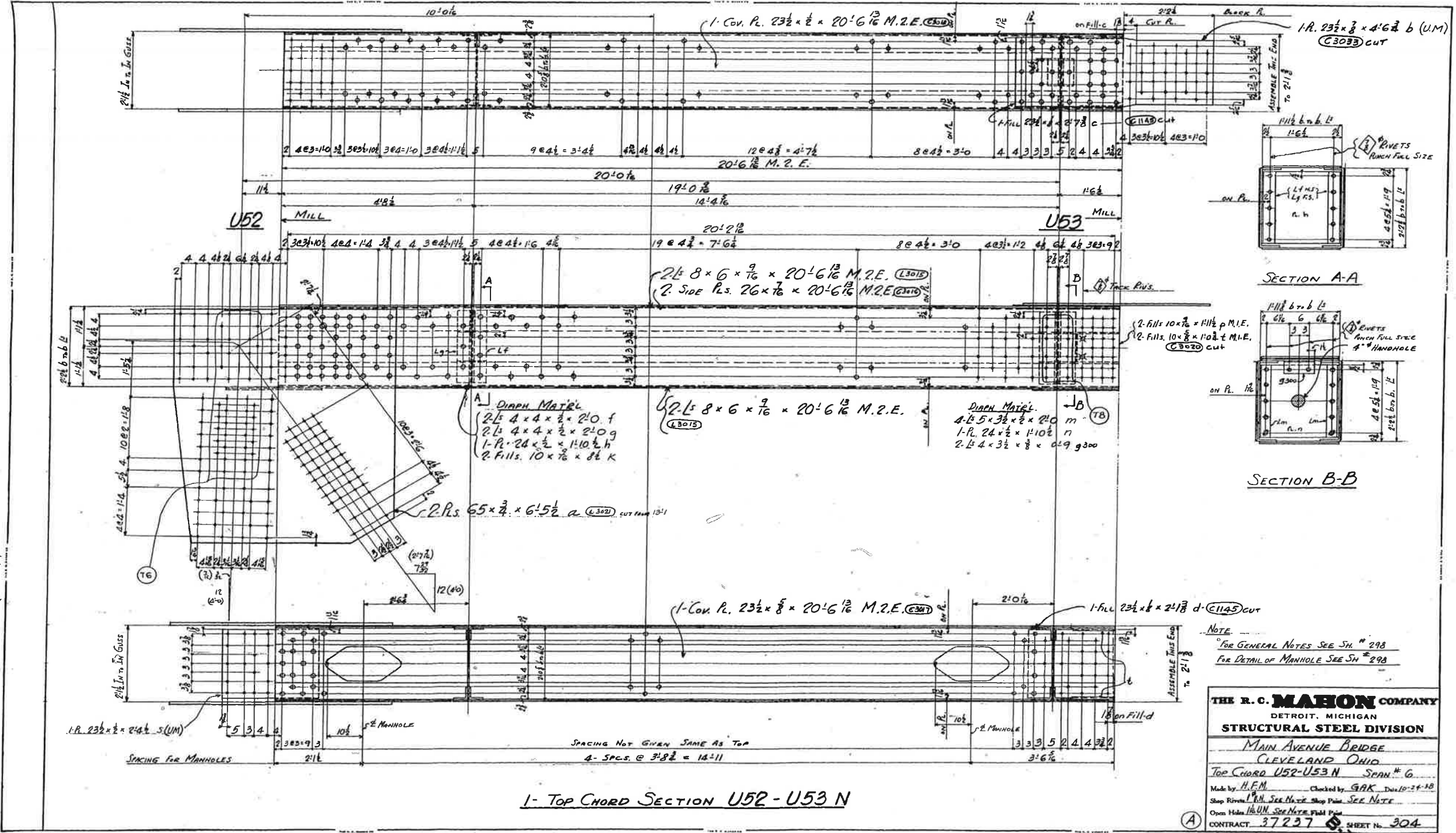
U51 S

LO-115

LO-114

LO-113





NOTE  
 ° FOR GENERAL NOTES SEE SH. # 298  
 ° FOR DETAIL OF MANHOLE SEE SH. # 298

**THE R. C. MAHON COMPANY**  
 DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**

MAIN AVENUE BRIDGE  
 CLEVELAND OHIO

TOP CHORD U52-U53 N SPAN # 6

Made by: H.F.M. Checked by: G.A.K. Date: 10-24-18  
 Shop Rivets: P.M. See Note Shop Price: SEE NOTE  
 Open Hole: H.U.M. See Note Field Price: SEE NOTE

CONTRACT 37237 SHEET No. 304

1- TOP CHORD SECTION U52 - U53 N

L0115

L0116

U52 N





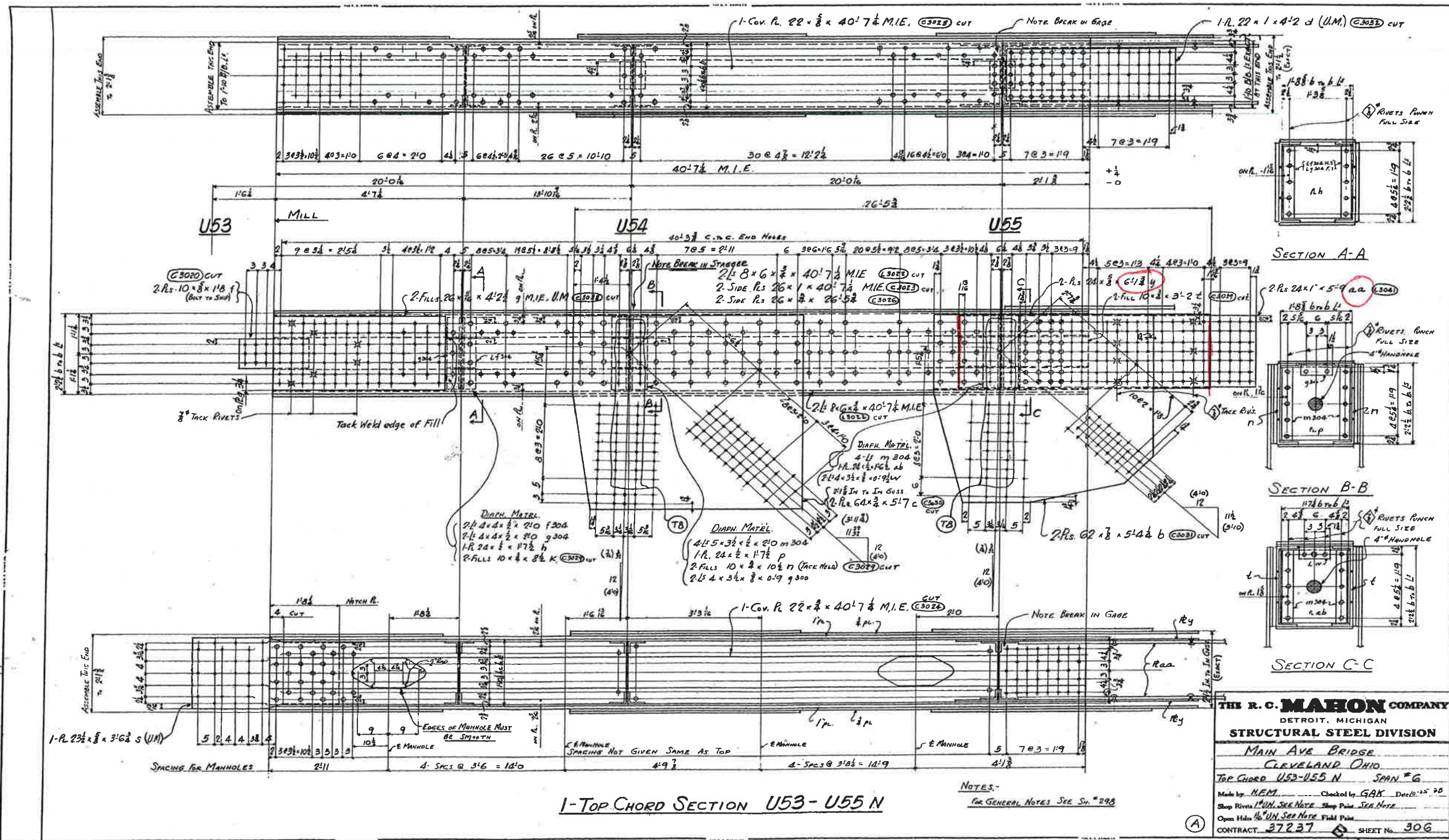










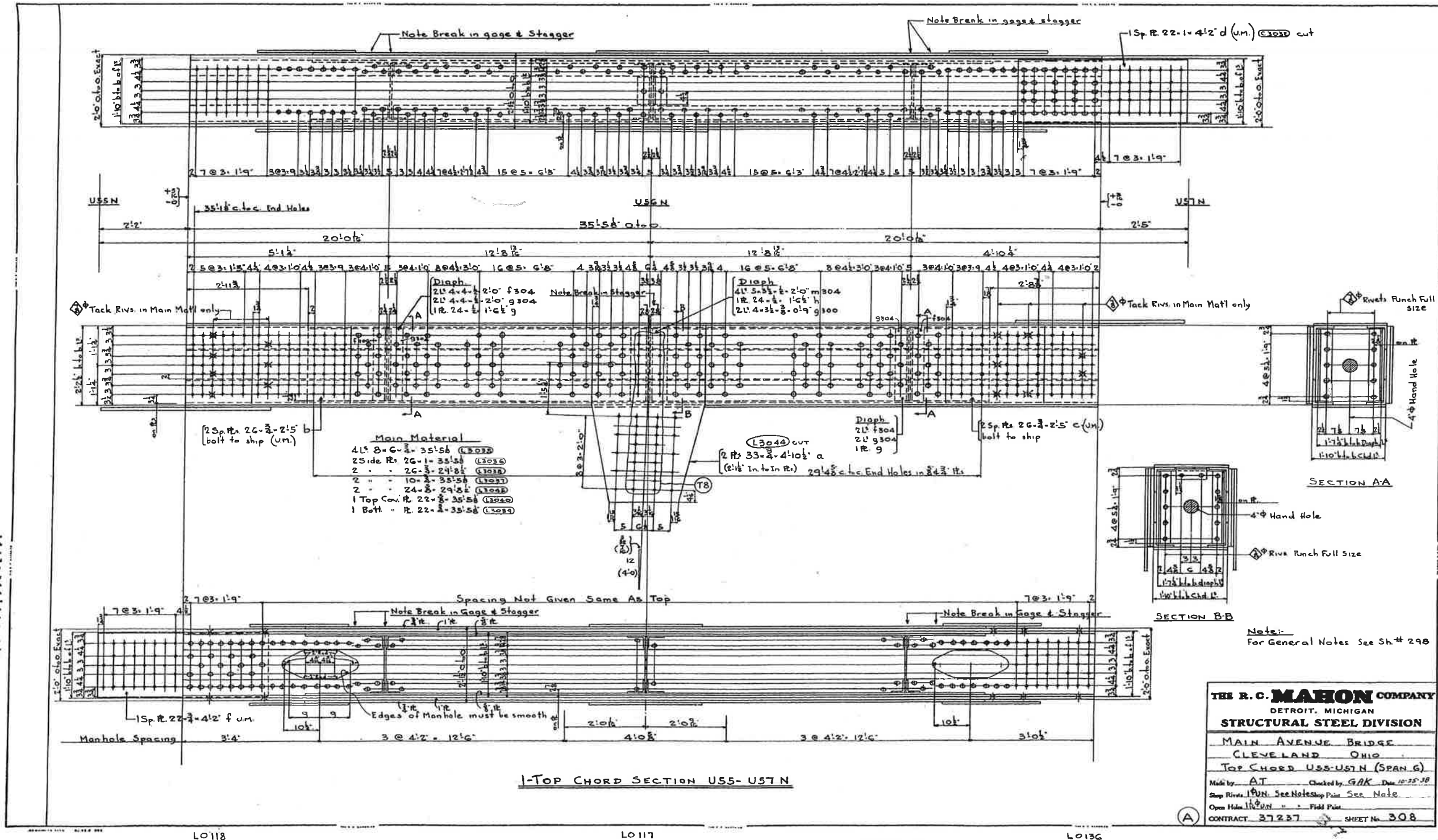


U54 N  
U55 N

44

65





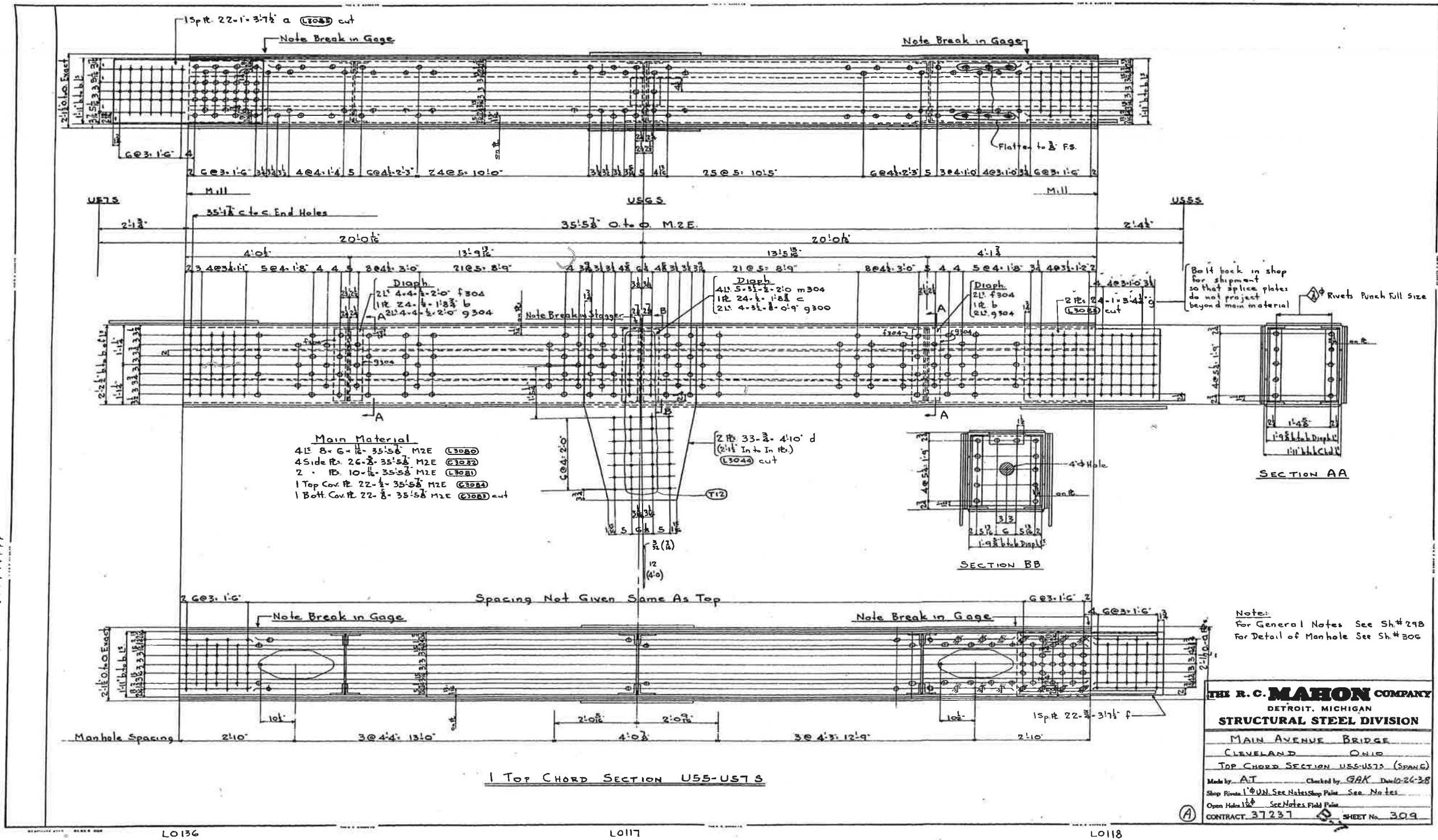
U56 N

L0118

L0117

L0136





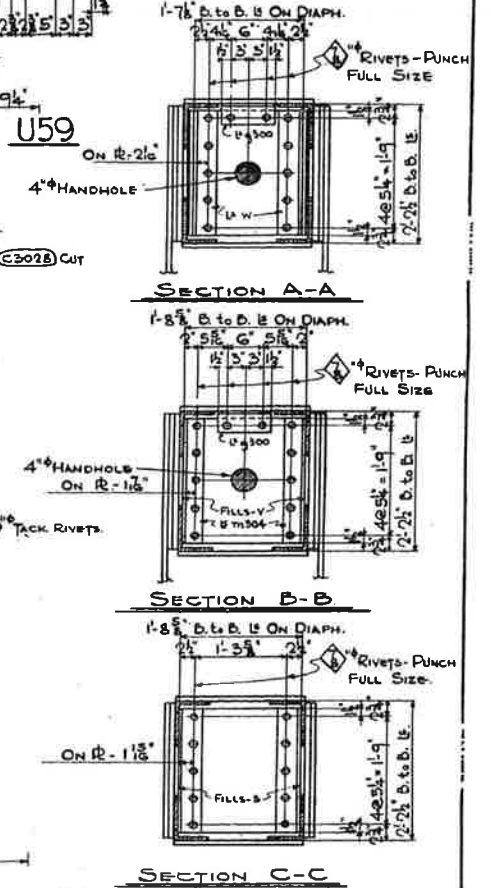
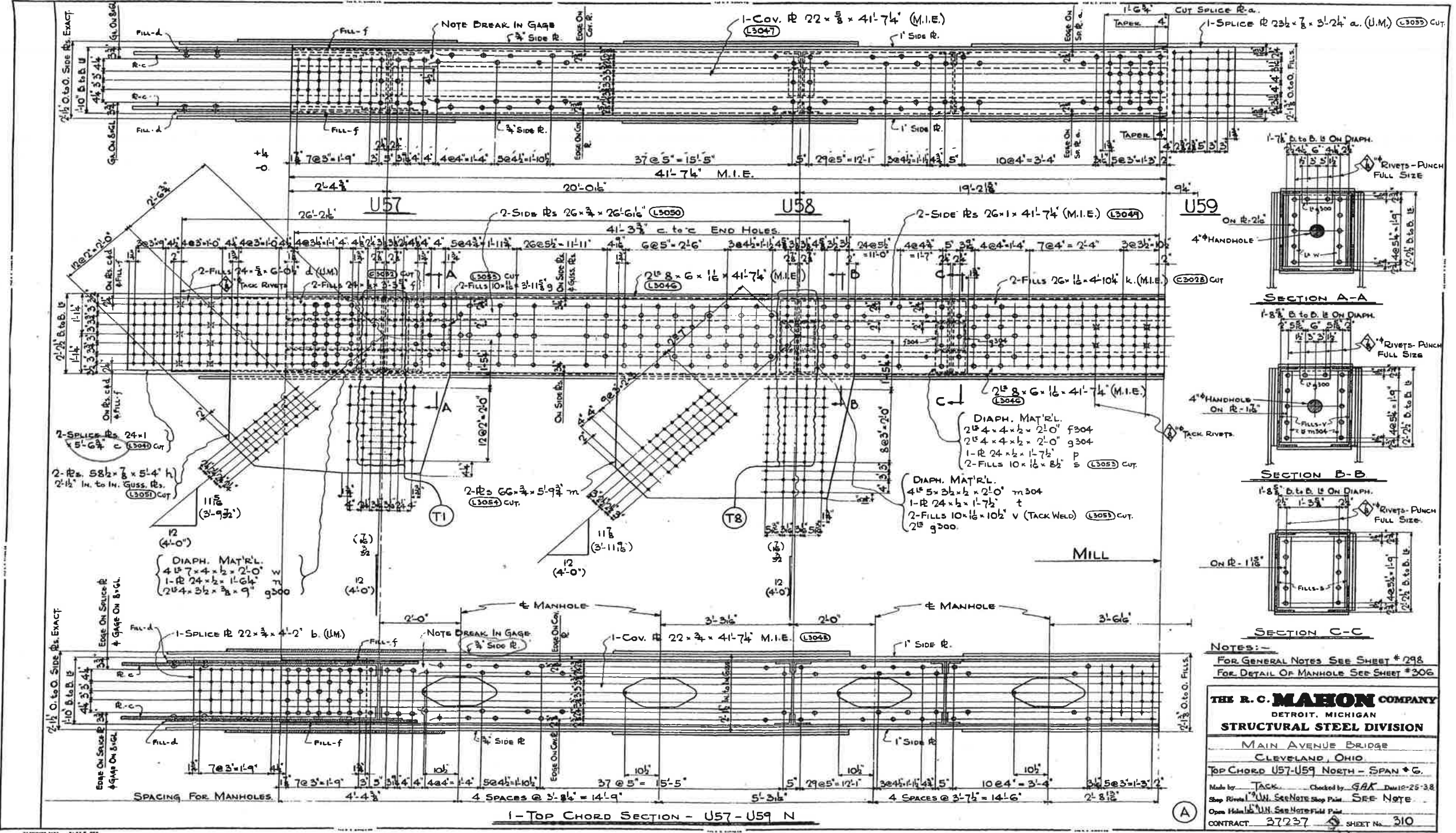
US6 S

L0136

L0117

L0118





NOTES:-  
 FOR GENERAL NOTES SEE SHEET # 298  
 FOR DETAIL OF MANHOLE SEE SHEET # 306

**THE R. C. MAHON COMPANY**  
 DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**  
 MAIN AVENUE BRIDGE  
 CLEVELAND, OHIO  
 TOP CHORD U57-U59 NORTH - SPAN # G.  
 Made by JACK Checked by GAK DWG 10-25-38  
 Shop Rivets 1/4\"/>

U57 N  
U58 N

LO-136

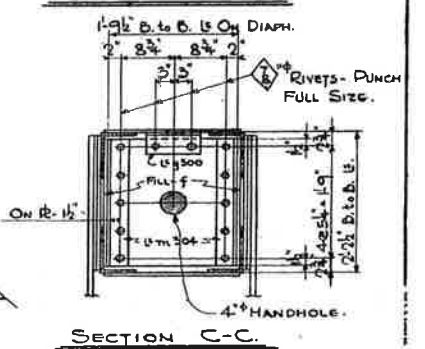
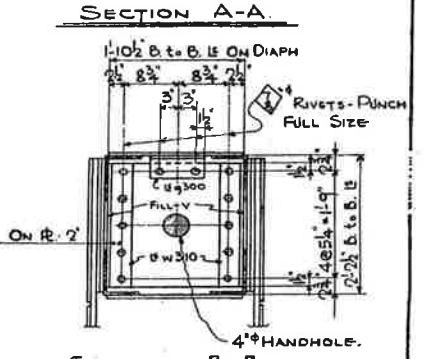
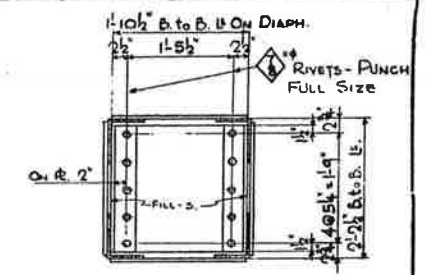
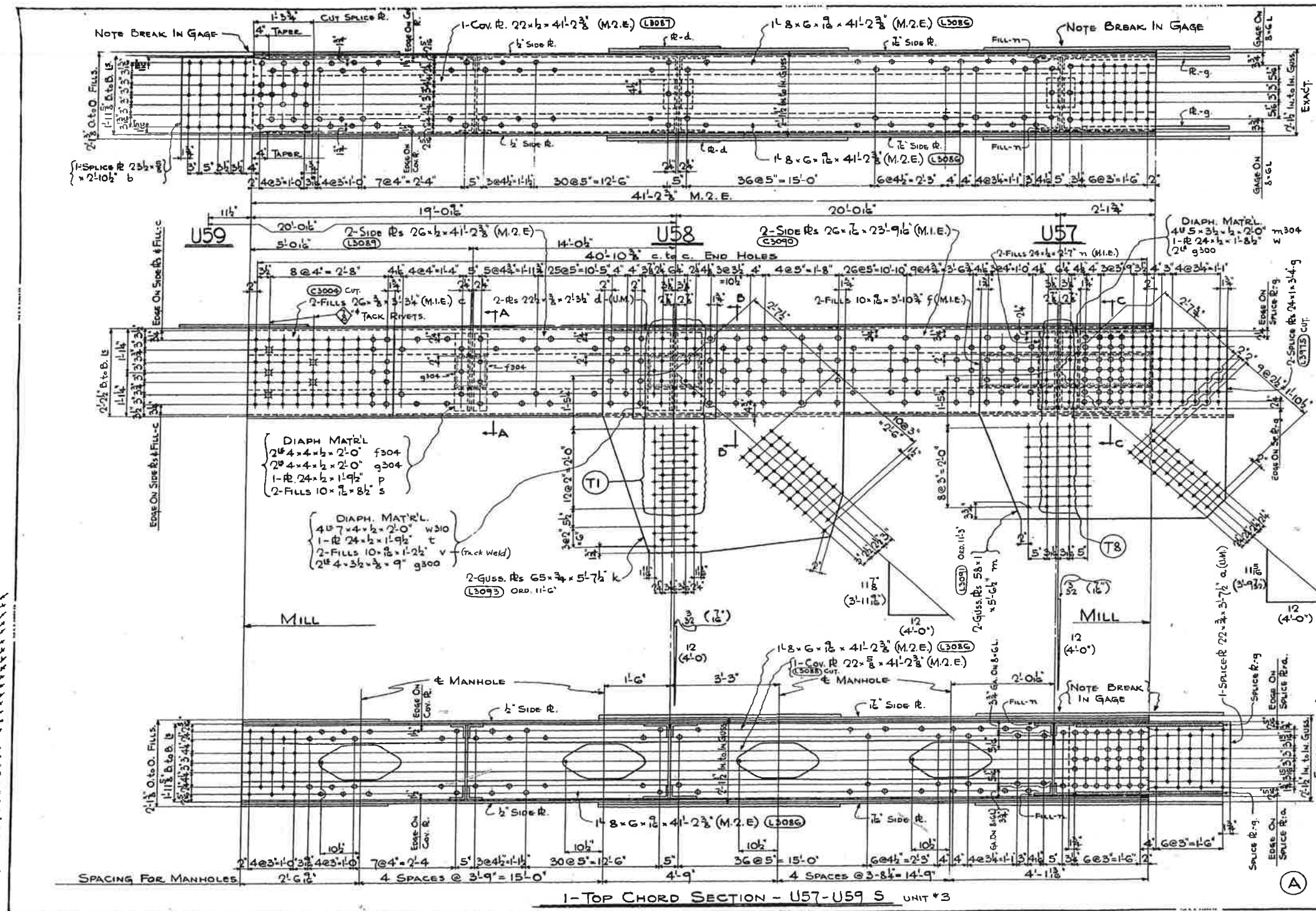
LO-137

LO-138

57

58





U58 S  
U57 S

DIAPH. MAT'L  
2# 4x4x1/2 = 2'-0\"/>

DIAPH. MAT'L  
4# 7x4x1/2 = 2'-0\"/>

NOTES:-  
FOR GENERAL NOTES SEE SHEET 298  
FOR DETAIL OF MANHOLE SEE SHEET 298

**THE R. C. MAHON COMPANY**  
DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**

MAIN AVENUE BRIDGE  
CLEVELAND, OHIO  
TOP CHORD U57-U59 SOUTH - SPAN #6

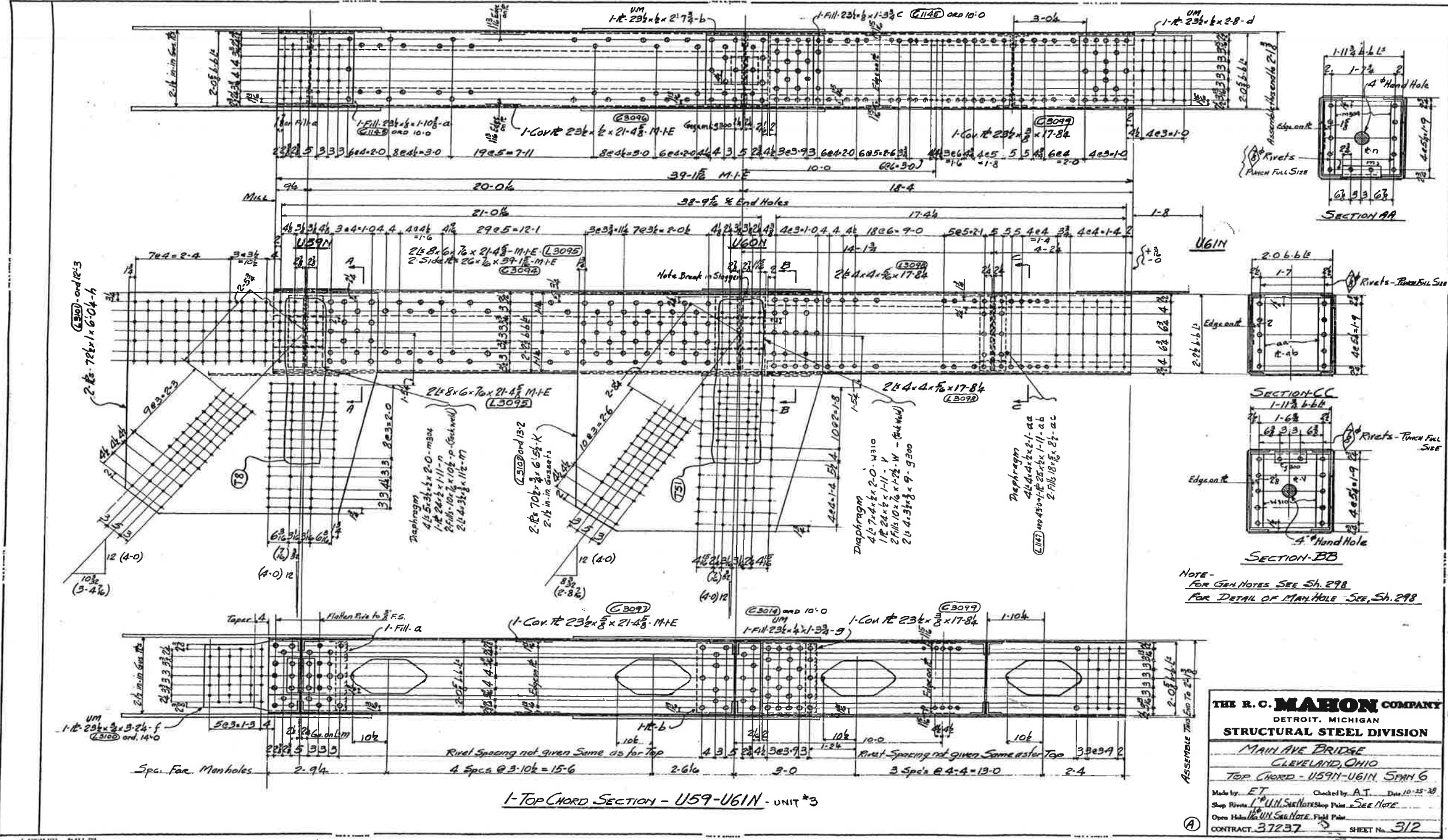
Made by JACK Checked by AT Date 11-1-38  
Shop Rivets UN See Note Shop Pairs SEE NOTE  
Open Holes UN See Note Field Pairs  
CONTRACT 37237 SHEET No. 311

LO-138

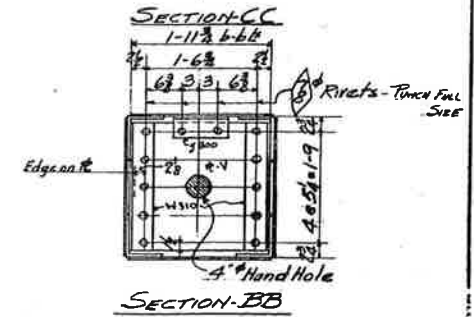
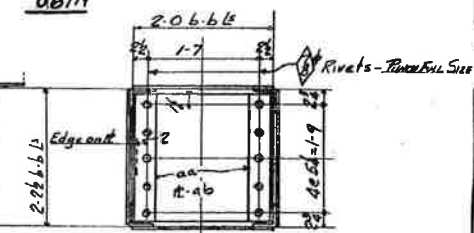
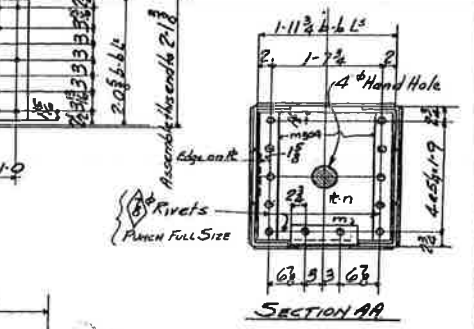
LO-137

LO-136





1-TOP CHORD SECTION - U59-U61N - UNIT #3



NOTE -  
FOR GEN. NOTES SEE SH. 298  
FOR DETAIL OF MANHOLE SEE SH. 298

**THE R. C. MAHON COMPANY**  
DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**

**MAINTENANCE BRIDGE**  
CLEVELAND, OHIO  
TOP CHORD - U59N-U61N SPAN 6

Made by ET Checked by AT Date 10-25-38  
Shop Rivets 1" UN. S&W Shop Paint SEE NOTE  
Open Holes UN. S&W Shop Note FIELD PAINT

CONTRACT 37237 SHEET No. 312

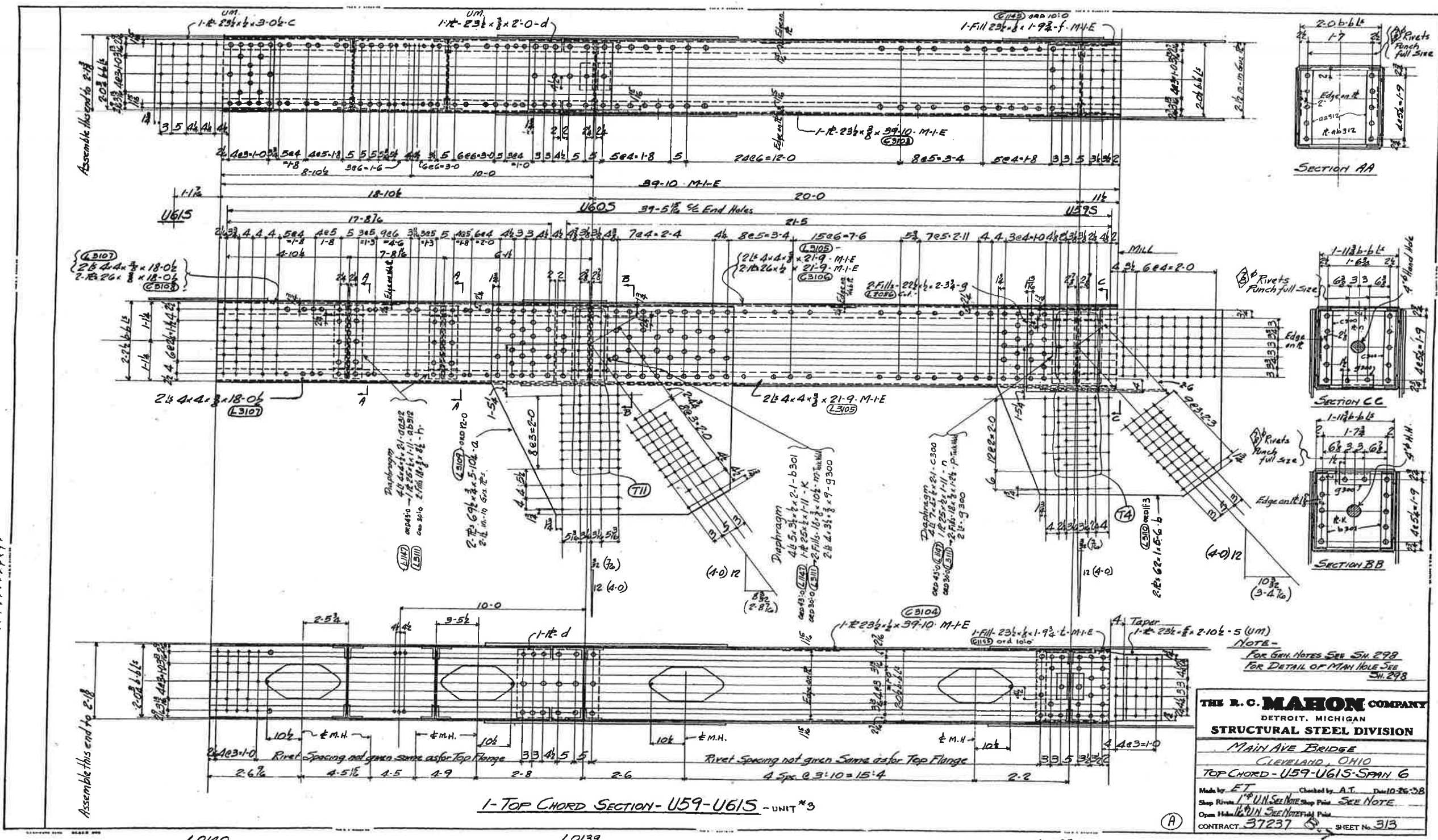
U59 N  
U60 N

L0138

L0139

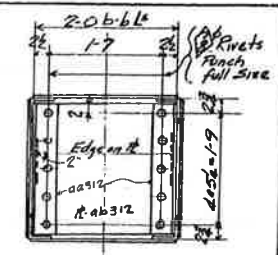
L0140



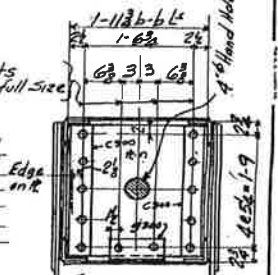


Assemble like end to E-18

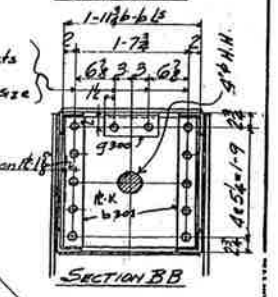
Assemble this end to E-18



SECTION AA



SECTION CC



SECTION BB

U60  
U59

NOTE -  
FOR GRILL NOTES SEE SH. 278  
FOR DETAIL OF MAN HOLE SEE SH. 278

**THE R. C. MAHON COMPANY**  
DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**  
MAIN AVE BRIDGE  
CLEVELAND, OHIO  
TOP CHORD - U59-U615-SPAN 6  
Made by ET Checked by A.T. Date 10-25-38  
Shop Rivets 1/4" UN SEE NOTE Shop Price SEE NOTE  
Open Holes 1/4" UN SEE NOTE Shop Price SEE NOTE  
CONTRACT 37237 SHEET No. 313

L0140

L0139

L0138

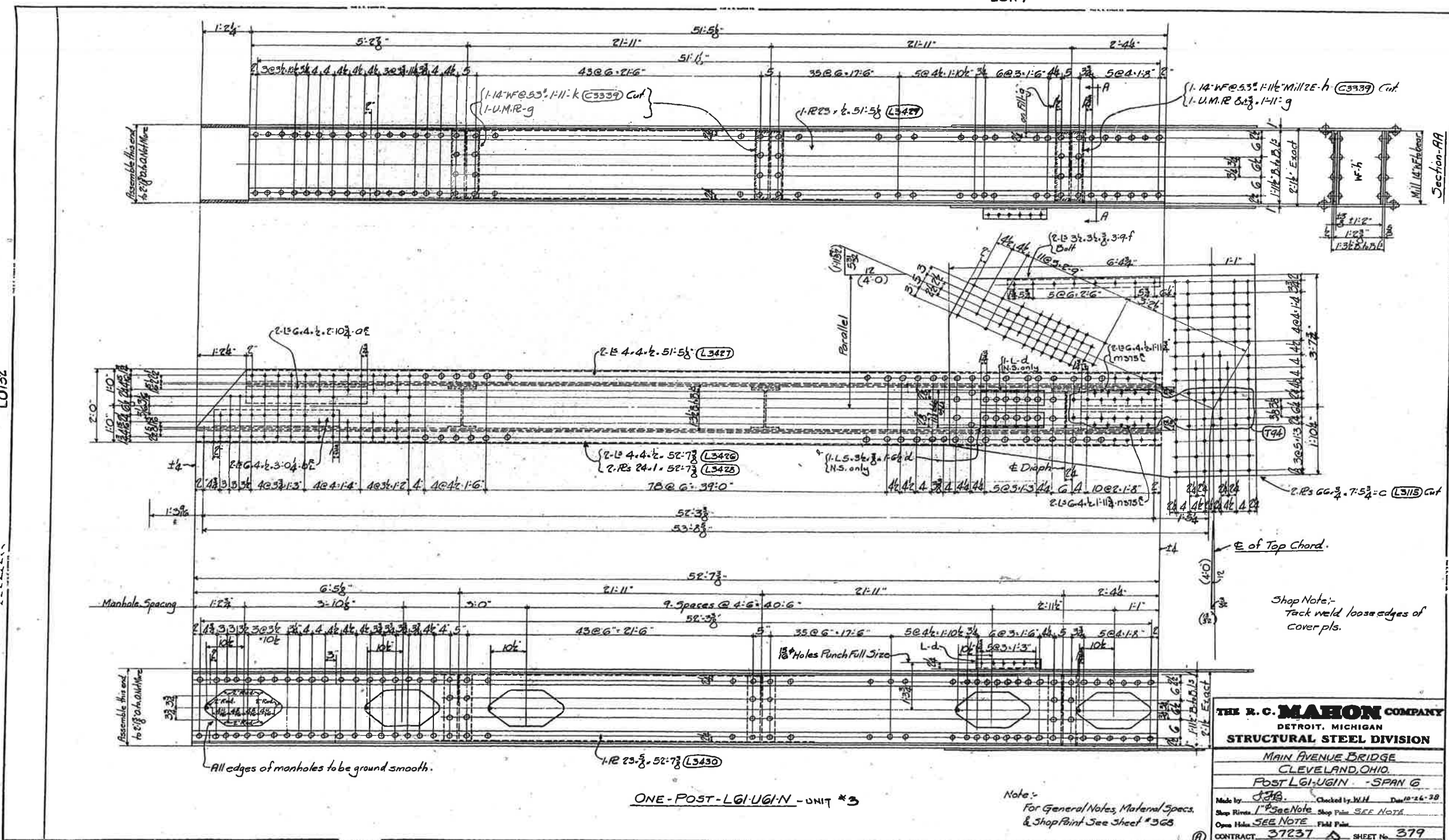
1-TOP CHORD SECTION - U59-U615 - UNIT \*3



LO119

LO132

LO140



Assemble this end to 21\"/>

Section-AA  
Mill 1/4\"/>

Manhole Spacing

Assemble this end to 21\"/>

All edges of manholes to be ground smooth.

ONE-POST-LGI-UGI-N - UNIT #3

Note:-  
For General Notes, Material Specs.  
& Shop Print See Sheet #368

Shop Note:-  
Tack weld loose edges of cover pls.

**THE R. C. MAHON COMPANY**  
 DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**

MAIN AVENUE BRIDGE  
 CLEVELAND, OHIO  
 POST LGI-UGI-N - SPAN G

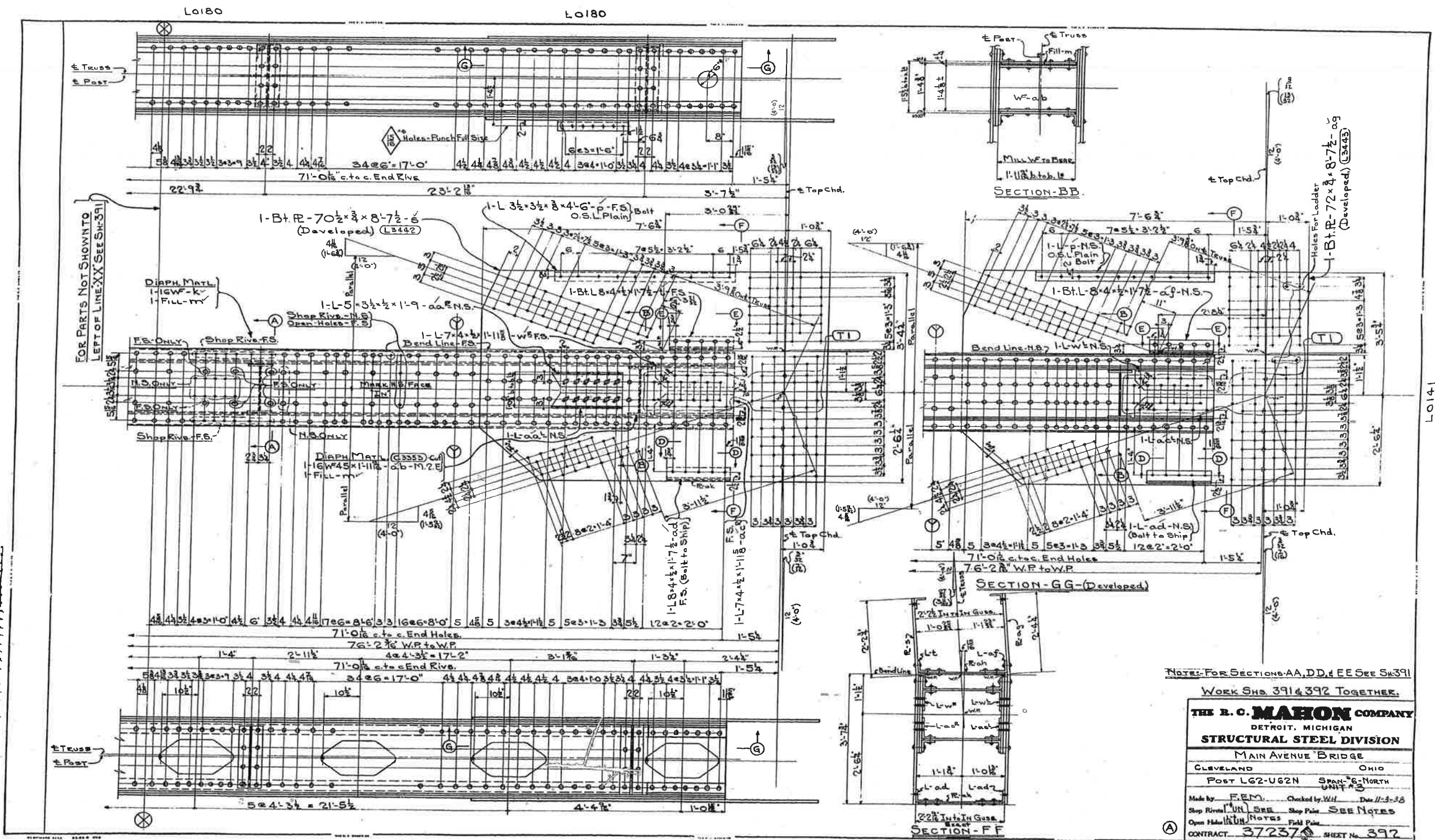
Made by JTB Checked by W.H. Date 12-26-38  
 Shop Prints 1" See Note Shop Price SEE NOTE  
 Open Hole SEE NOTE Field Price  
 CONTRACT 37237 SHEET No. 379

U61 N









FOR PARTS NOT SHOWN TO LEFT OF LINE XX SEE SH-391

NOTES: FOR SECTIONS AA, DD, & EE SEE SH-391

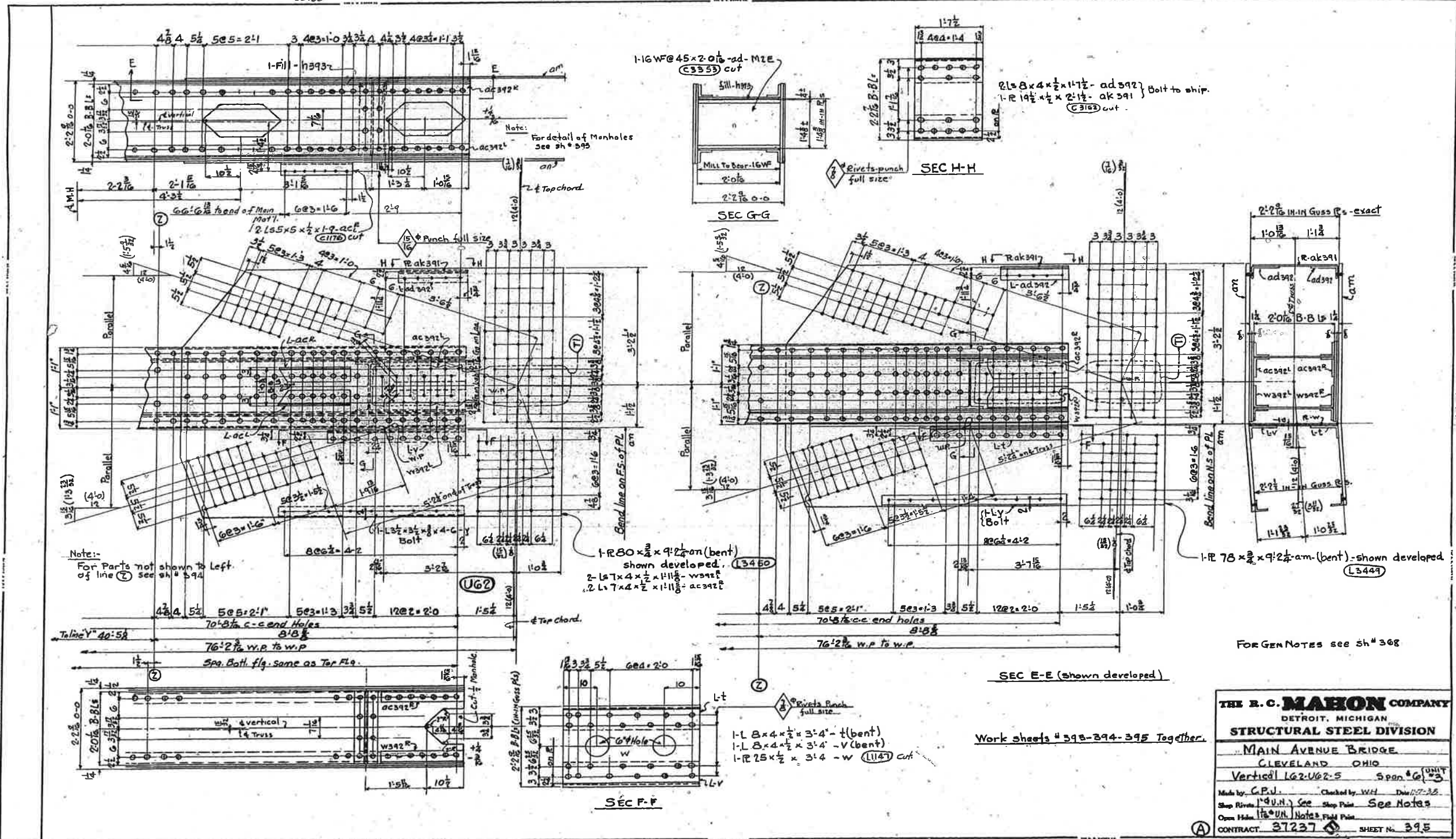
WORK SHS 391 & 392 TOGETHER.

**THE R. C. MAHON COMPANY**  
 DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**  
 MAIN AVENUE BRIDGE  
 CLEVELAND OHIO  
 POST LG2-U62N SPAN-6-NORTH  
 UNIT A3  
 Made by FEM Checked by WJH Date 11-3-38  
 Shop Rivets UN SEE Shop Plans SEE NOTES  
 Open Holes UN NOTES Field Plans  
 CONTRACT 37237 SHEET No 392

U62 N

L0141

L0180



U62 S

**THE R. C. MAHON COMPANY**  
 DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**

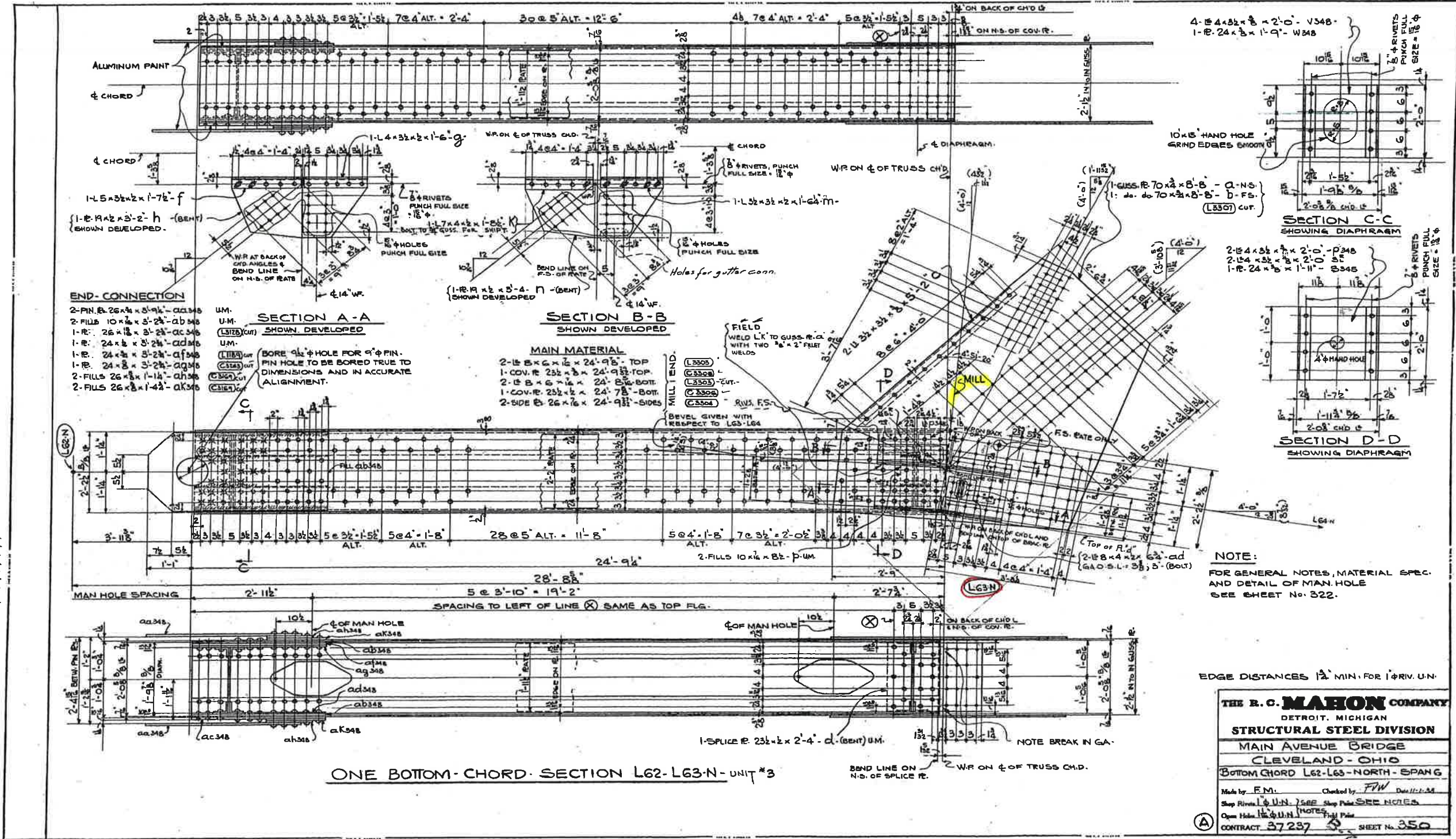
**MAIN AVENUE BRIDGE**  
 CLEVELAND OHIO  
 Vertical U62-U62-S Span #6 (UNIT)

Made by: C.P.J. Checked by: W.H. Date: 12-35  
 Shop Rivets: 1/4 UN. See Shop Plans See Notes  
 Conn. Holes: 1/4 UN. Notes: Field Plans

CONTRACT 37237 SHEET No. 395

L0141





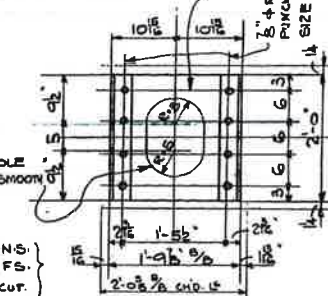
**END CONNECTION**  
 2-FIN. 26x4x3/4 - aK348  
 2-FILL 10x1/2x3-24-ab348  
 1-R. 26x1/2x3-24-ac348  
 1-R. 24x3/4x3-24-ad348  
 1-R. 24x3/4x3-24-af348  
 1-R. 24x3/4x3-24-ag348  
 2-FILL 26x3/4x1-14-ah348  
 2-FILL 26x3/4x1-14-ai348

**SECTION A-A**  
 U.M. (L3378) CUT SHOWN DEVELOPED

**SECTION B-B**  
 U.M. (L3308) CUT SHOWN DEVELOPED

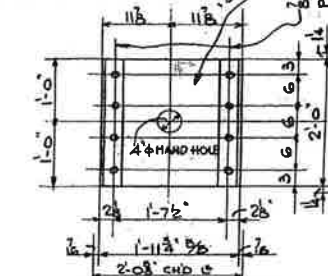
**MAIN MATERIAL**  
 2-1/2" Bx6x1/2x24-98" TOP  
 1-COV. R. 23x2x24-98" TOP  
 2-1/2" Bx6x1/2x24-88" BOT.  
 1-COV. R. 23x2x24-78" BOT.  
 2-SIDE B. 26x7/8x24-98" SIDES

4-B 4x3/4x8x2'-0" - V348  
 1-R. 24x3/4x1'-9" - W348



**SECTION C-C**  
 SHOWING DIAPHRAGM

2-1/4x3/4x7x2'-0" - P348  
 2-1/4x3/4x7x2'-0" - S348  
 1-R. 24x3/4x1'-11" - B348



**SECTION D-D**  
 SHOWING DIAPHRAGM

**NOTE:**  
 FOR GENERAL NOTES, MATERIAL SPEC. AND DETAIL OF MAN HOLE SEE SHEET No. 322.

EDGE DISTANCES 1/2" MIN. FOR 1" RIV. U.M.

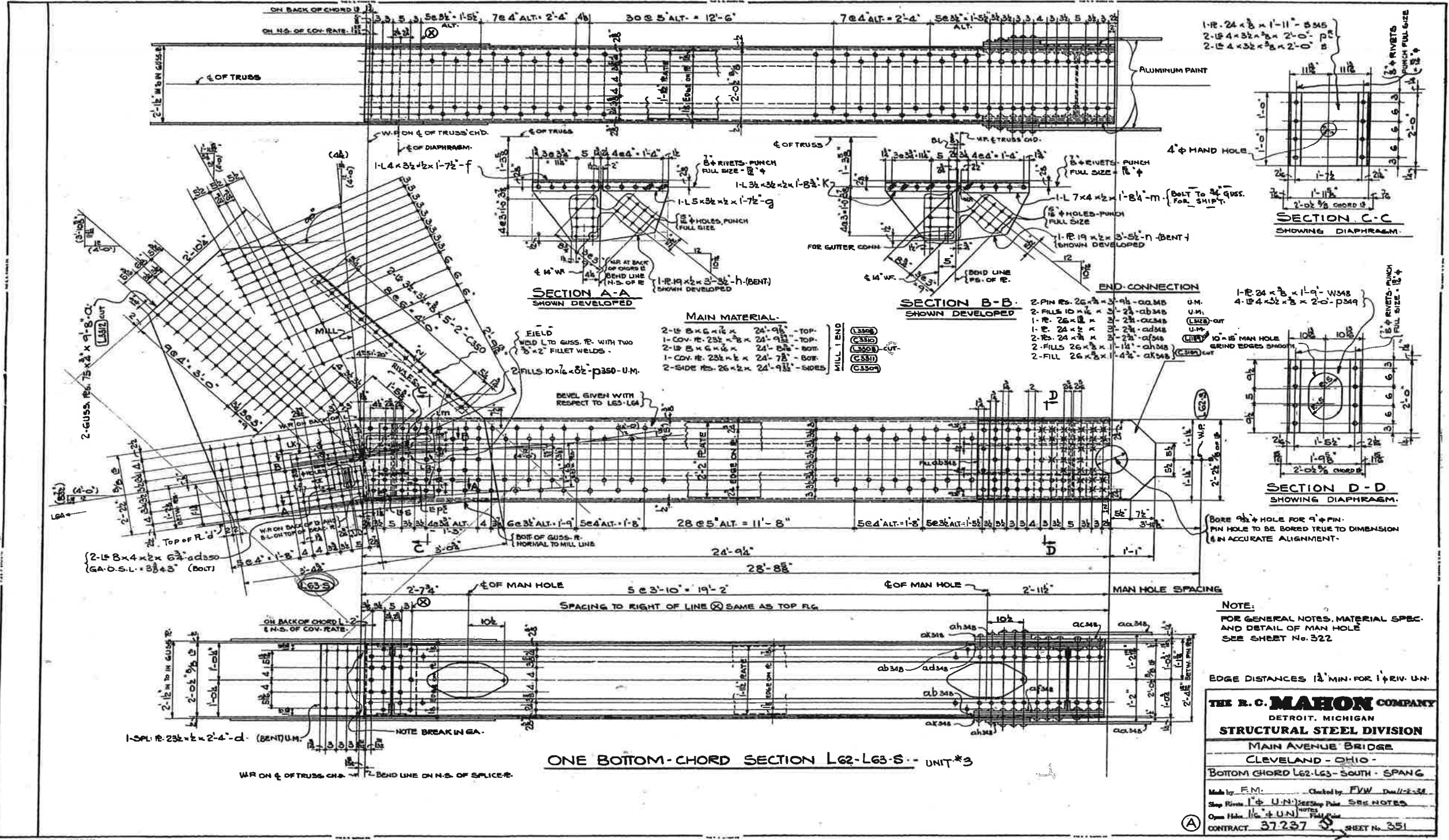
**THE R. C. MAHON COMPANY**  
 DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**  
 MAIN AVENUE BRIDGE  
 CLEVELAND - OHIO  
 BOTTOM CHORD L62-L63-NORTH-SPANG

Made by F.M. Checked by F.W. Date 11-1-58  
 Shop Rivets 1/4" U.M. 7/8" Shop Plate SEE NOTES  
 Open Hole 1/4" U.M. 7/8" Shop Plate SEE NOTES  
 CONTRACT 37237 SHEET No. 350

**ONE BOTTOM-CHORD SECTION L62-L63-N-UNIT #3**

L63 N





**NOTE:**  
FOR GENERAL NOTES, MATERIAL SPEC. AND DETAIL OF MAN HOLE SEE SHEET No. 322

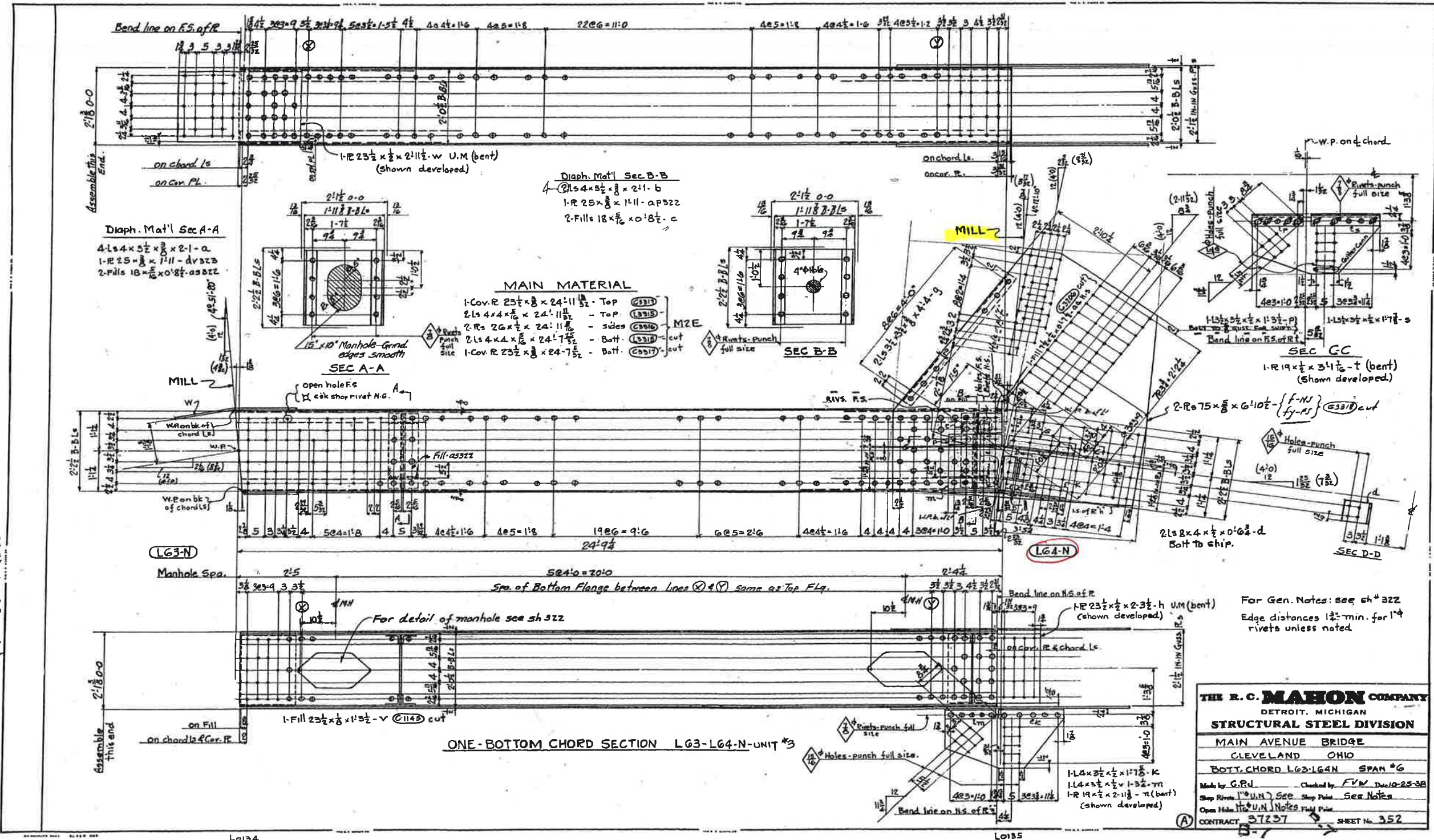
EDGE DISTANCES 1 1/2" MIN. FOR 1/4" RIV. U.M.

**THE R. C. MAHON COMPANY**  
DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**  
MAIN AVENUE BRIDGE  
CLEVELAND - OHIO  
BOTTOM CHORD L62-L63-SOUTH - SPANG

Made by: F.M. Checked by: F.V.W. Date: 11-2-34  
Shop Rivets: 1/4" U.M. See Notes  
Open Hole: 1/4" U.M. See Notes  
CONTRACT 37237 SHEET No. 351

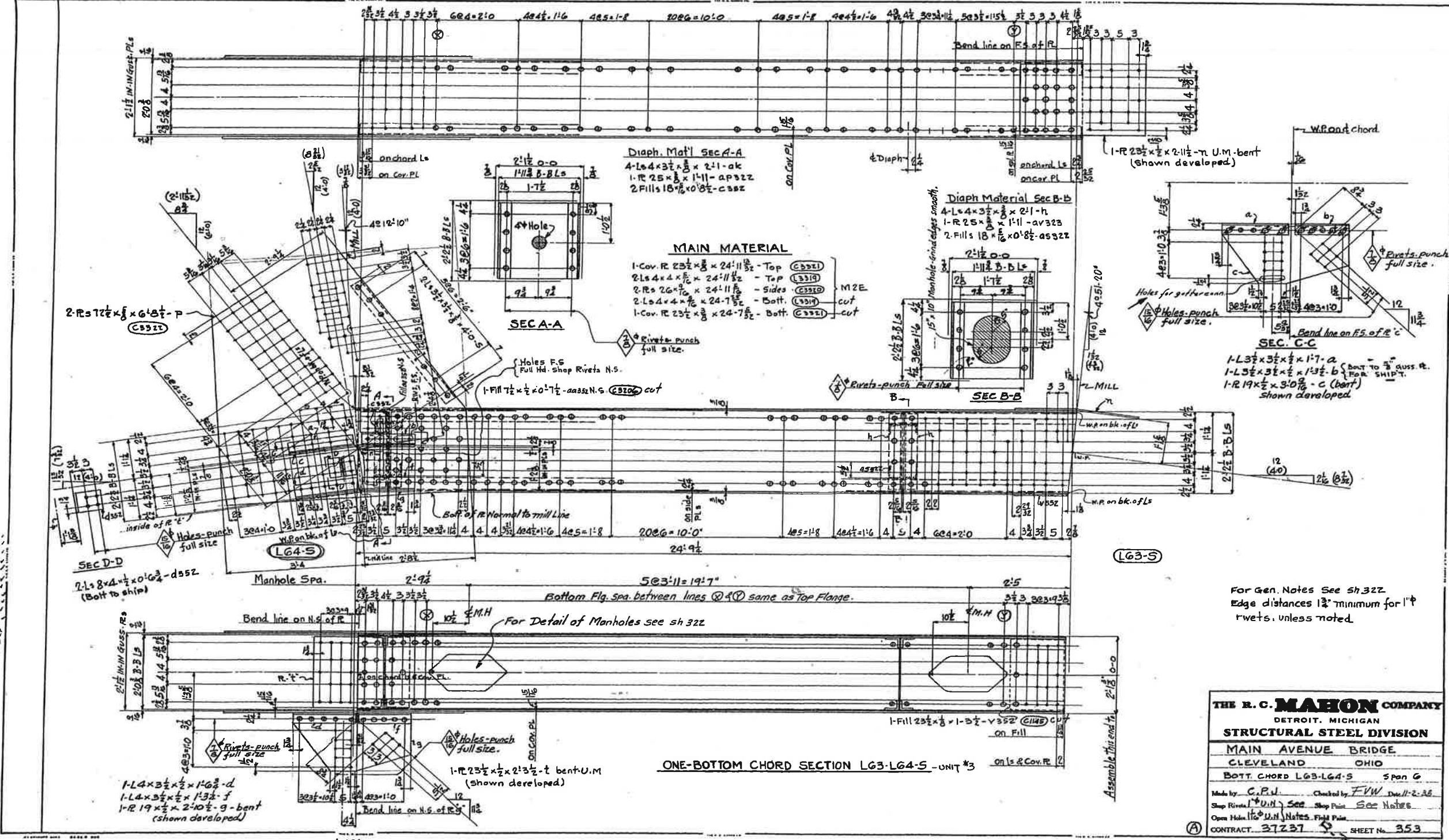
L63 S





L64 N



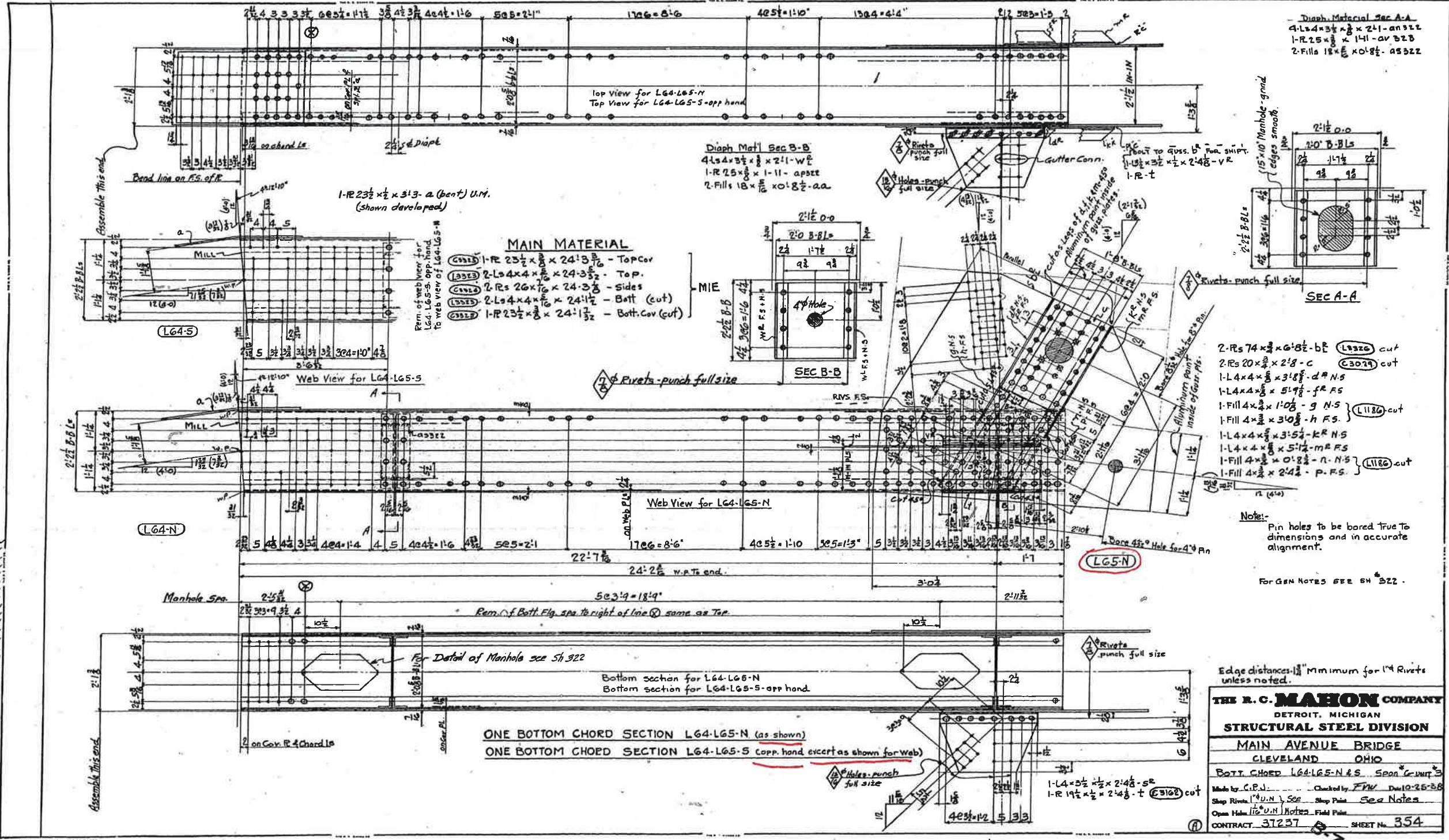


L64 S

For Gen. Notes See sh 322.  
Edge distances 1 1/2" minimum for 1" rivets, unless noted.

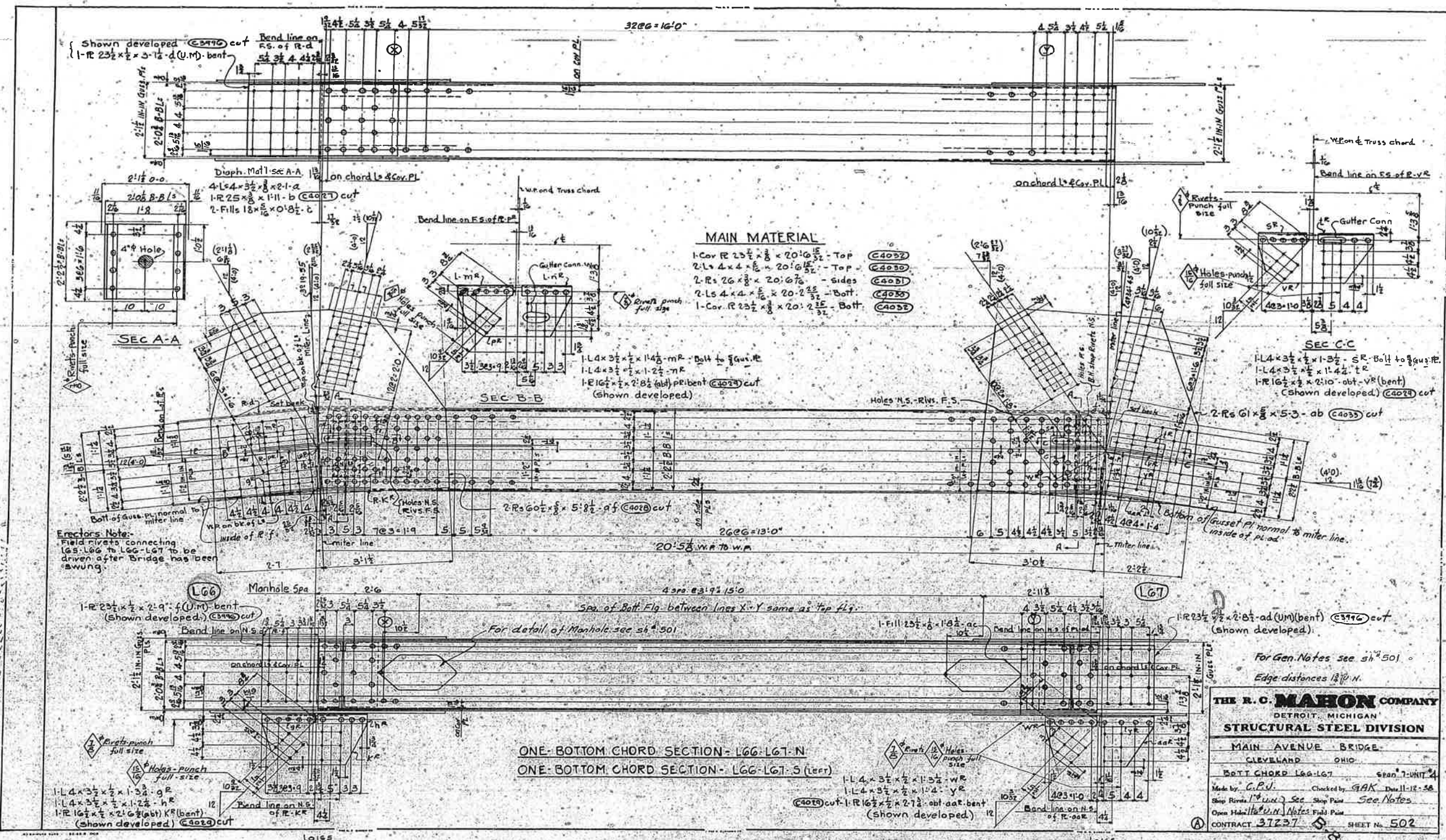
**THE R. C. MAHON COMPANY**  
 DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**  
 MAIN AVENUE BRIDGE  
 CLEVELAND OHIO  
 BOTT. CHORD L63-L64-S Span 6  
 Made by C.P.W. Checked by F.V.W. Dec. 11-2-36  
 Shop Rivets U.N. See Shop Print See Notes  
 Open Holes U.N. Notes Field Print  
 CONTRACT 37237 SHEET No. 353





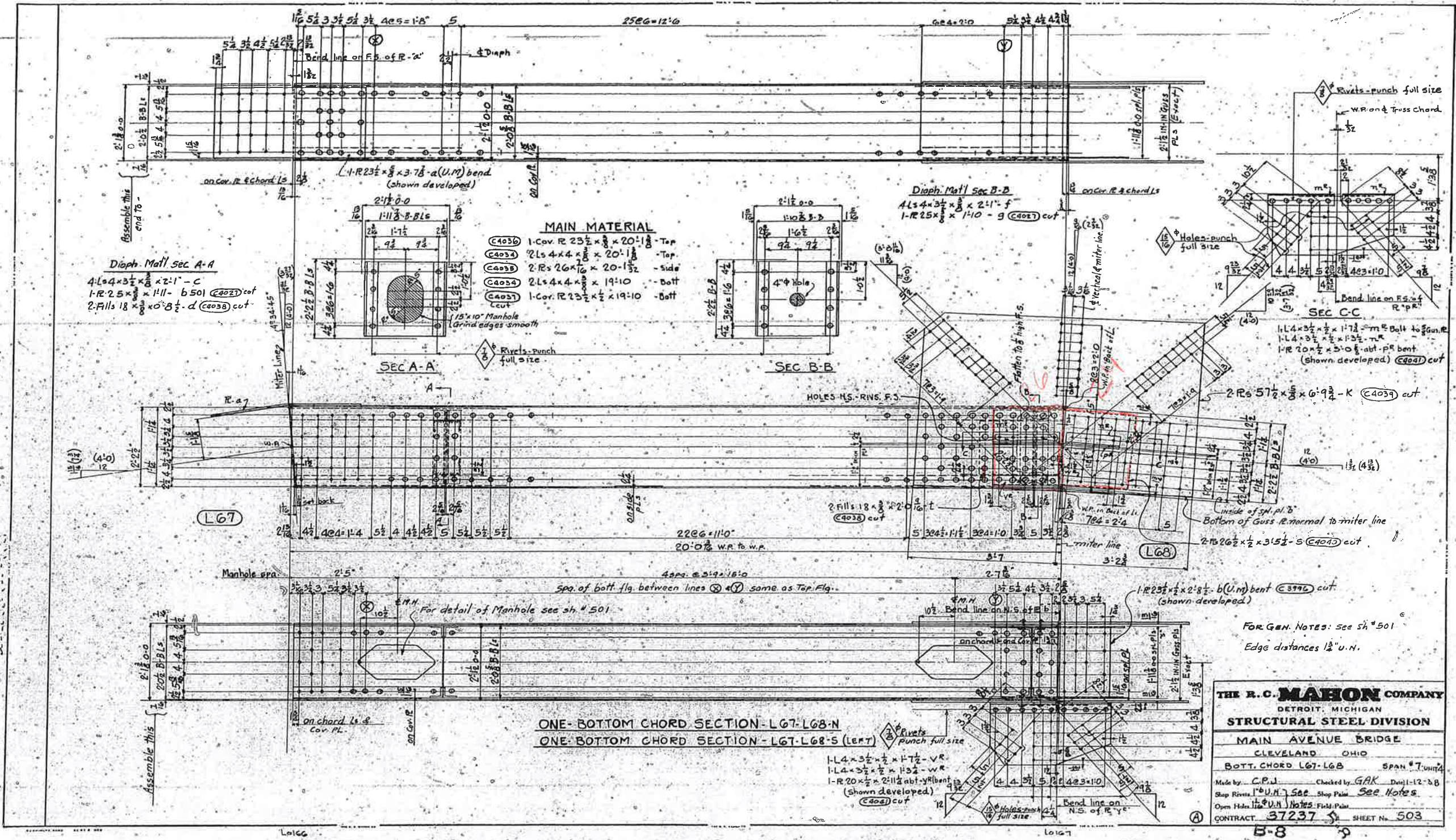
L65 N(S)





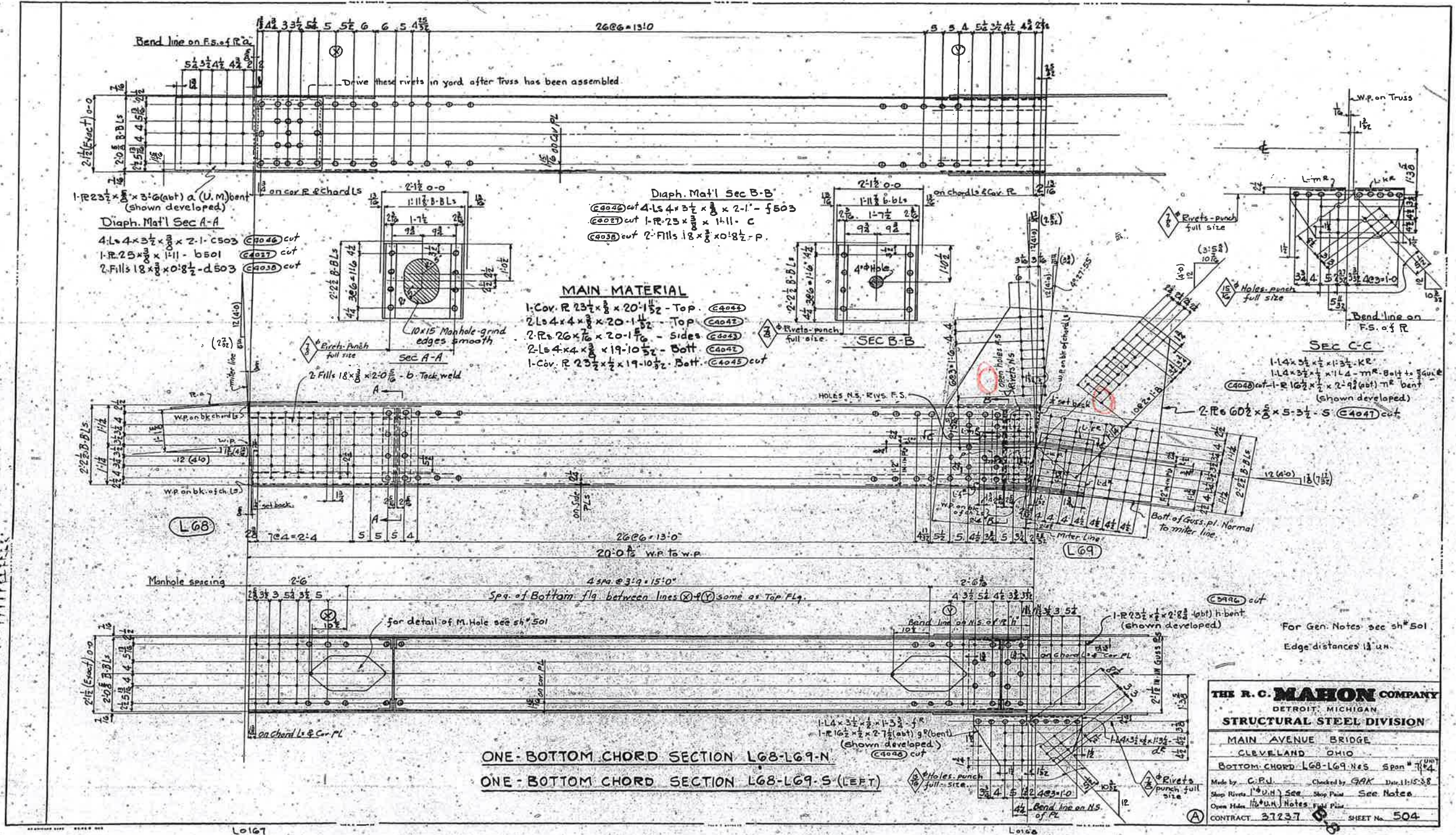
L66 N & S  
L67 N & S





L68 N/S





ONE - BOTTOM CHORD SECTION L68-L69-N  
ONE - BOTTOM CHORD SECTION L68-L69-S (LEFT)

L69 N/S

**THE R. C. MAHON COMPANY**  
DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**

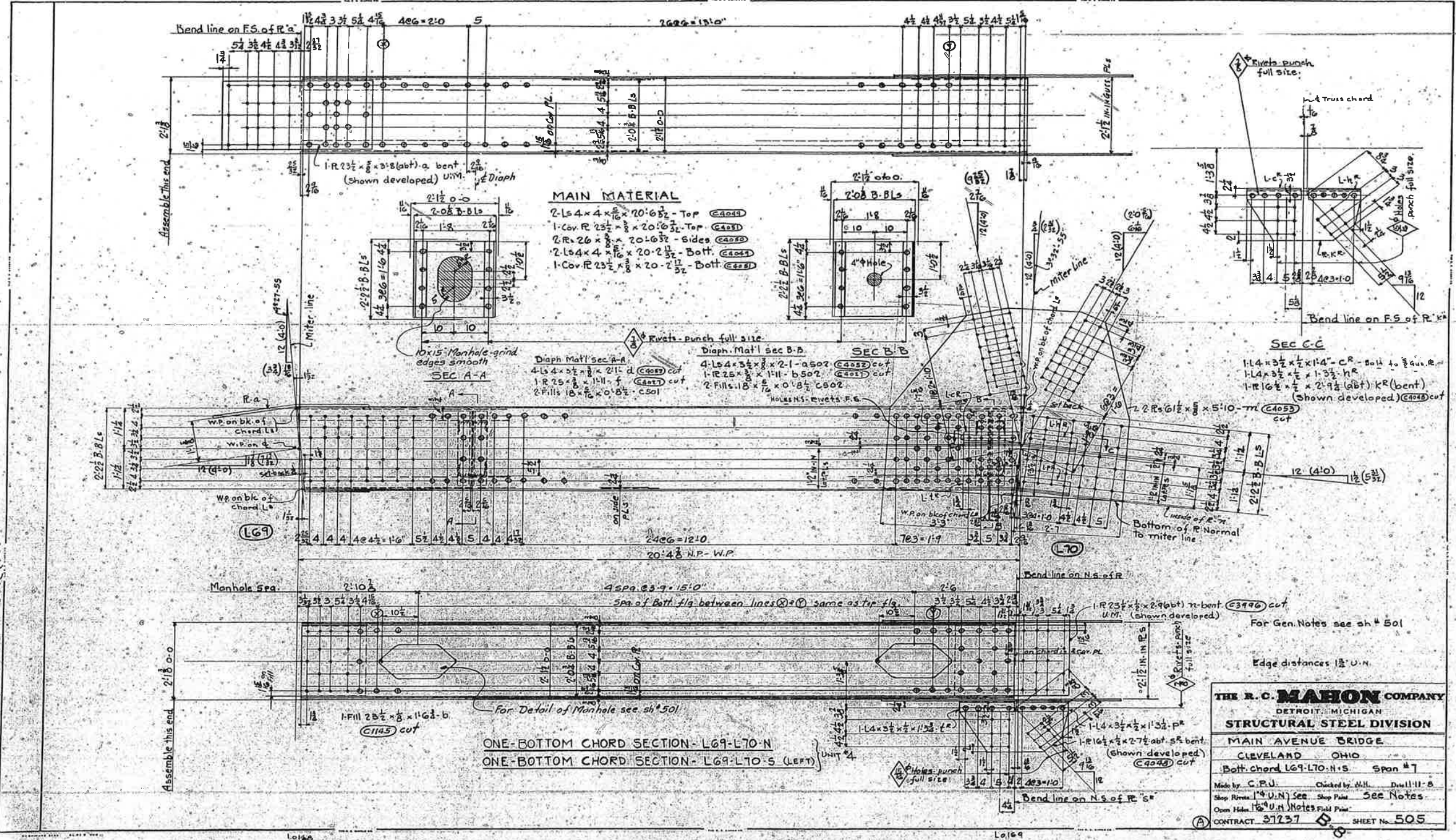
MAIN AVENUE BRIDGE  
CLEVELAND, OHIO

BOTTOM CHORD L68-L69 N/S Span # 114

Made by: C.P.J. Checked by: G.R.K. Date: 11-15-38  
Shop Rivets: (U.M.) See Shop Print See Notes  
Open Holes: (U.M.) Notes, Full Print

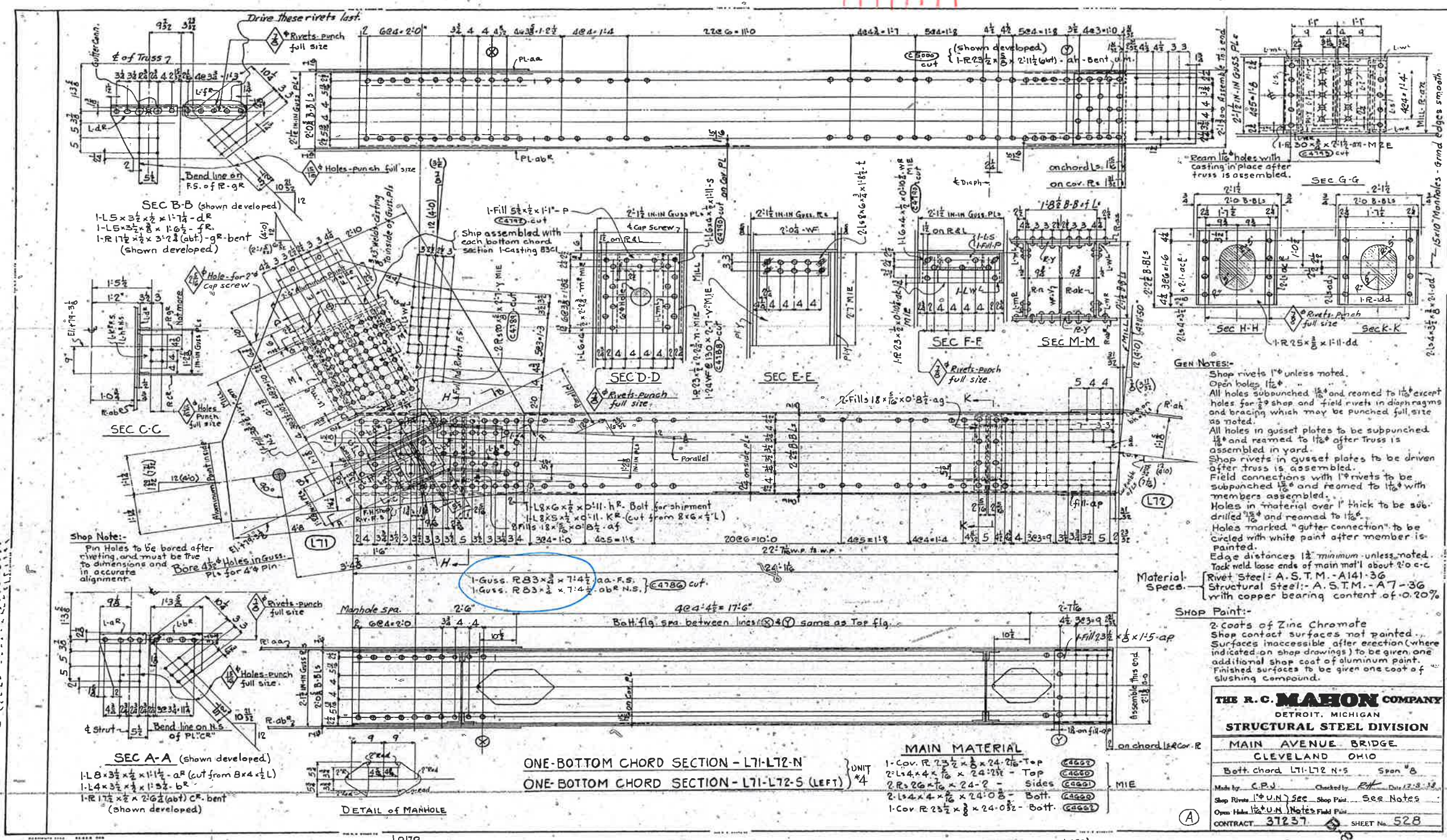
CONTRACT 37237 SHEET No. 504





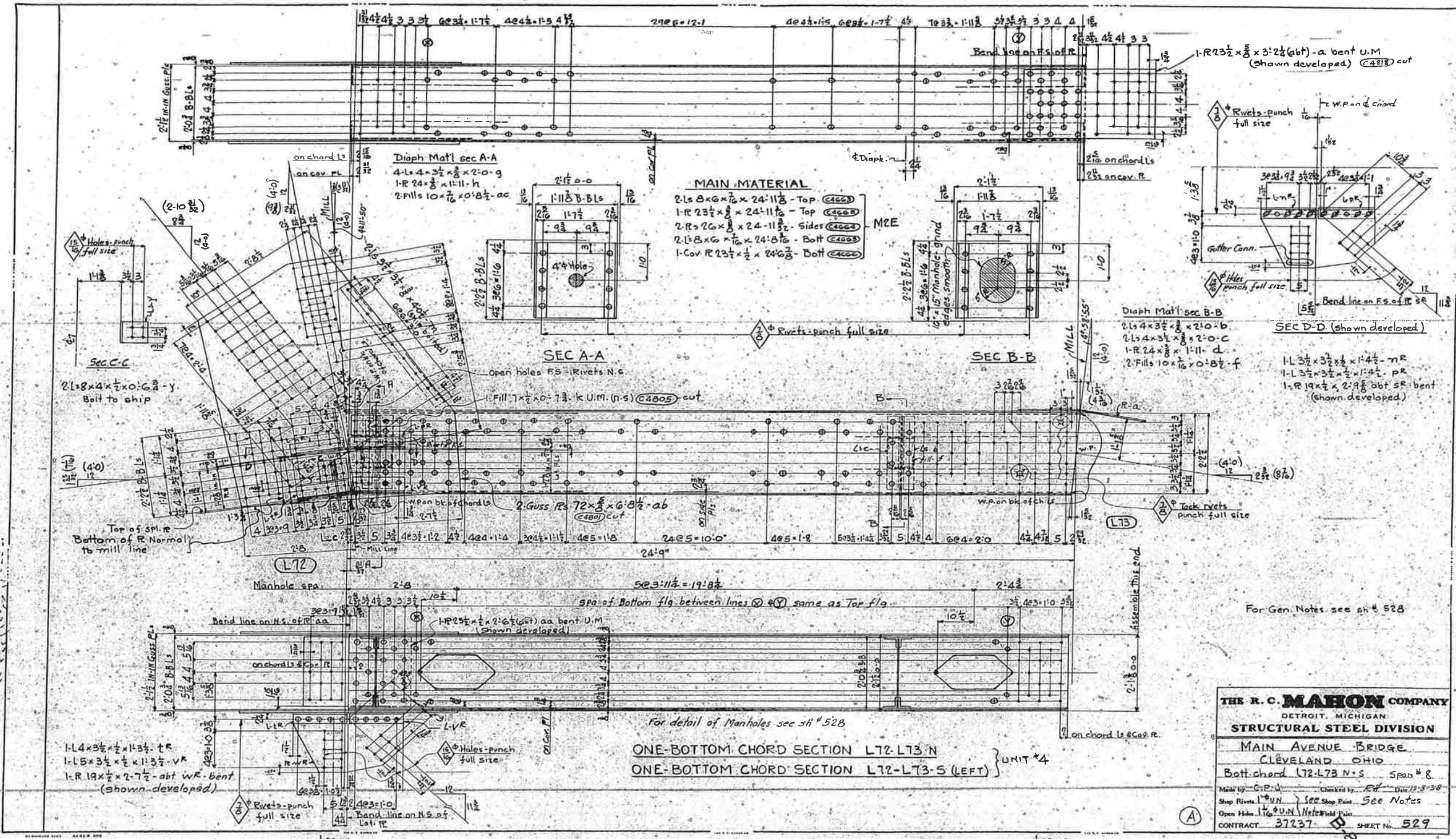
L70 N/S





L71 N's



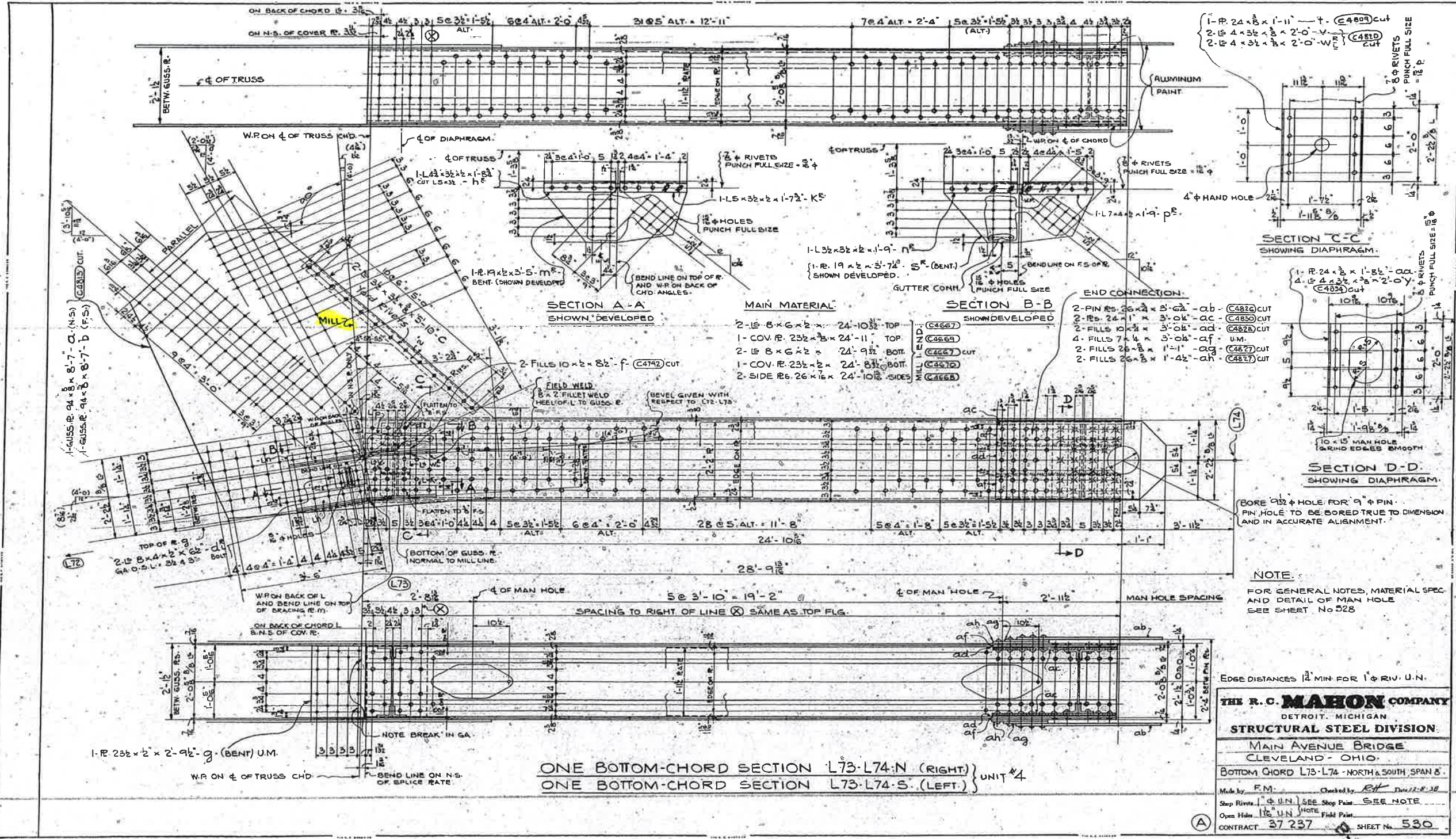


L72 N-S

For Gen. Notes see sh # 528

for detail of Manholes see sh # 528  
 ONE-BOTTOM CHORD SECTION L72-L73-N  
 ONE-BOTTOM CHORD SECTION L72-L73-S (LEFT) } UNIT \*4

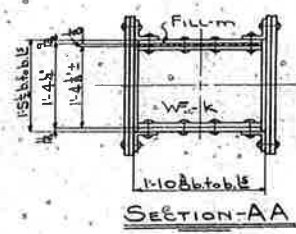
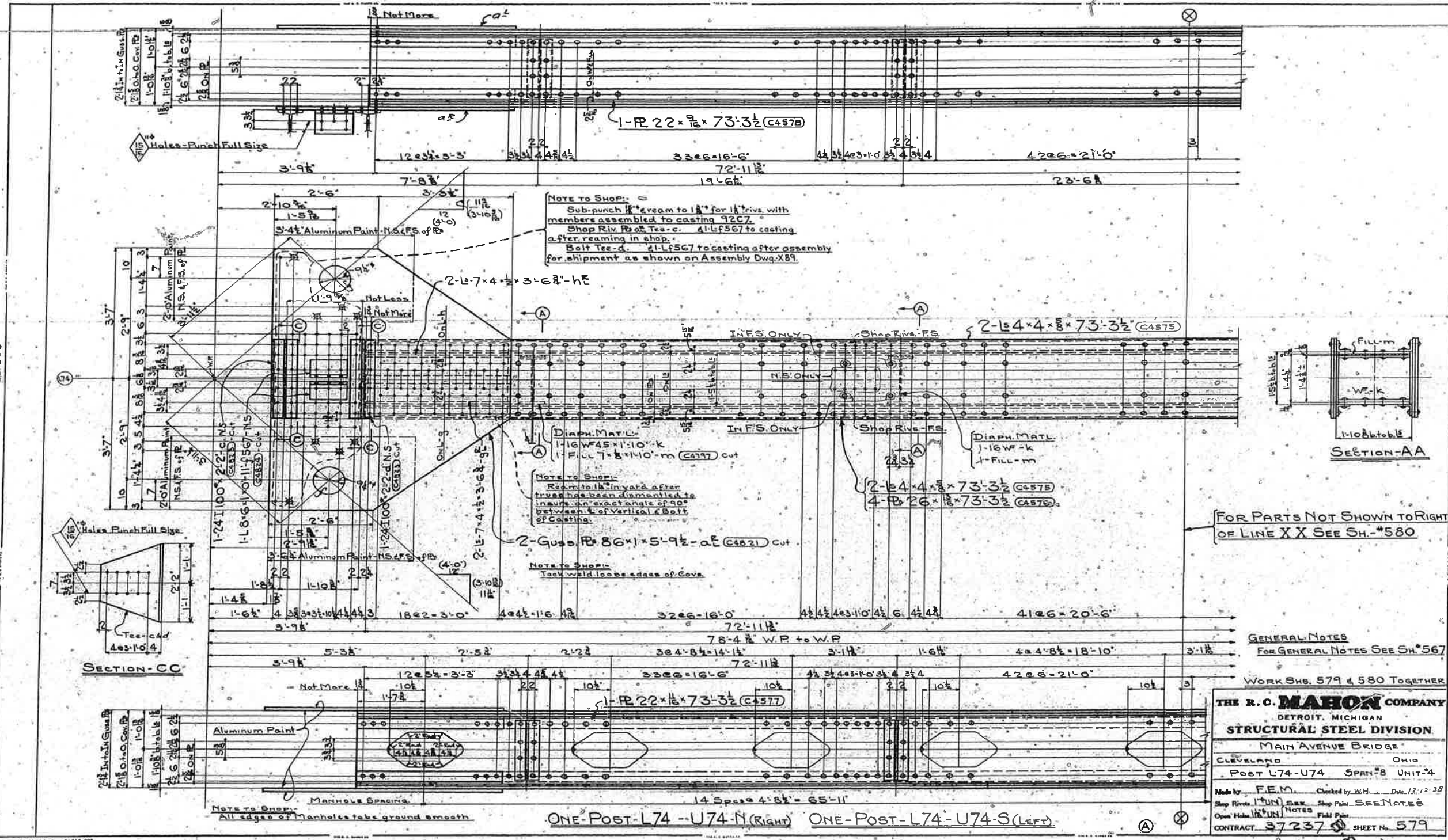




L73 N&S



LO203



FOR PARTS NOT SHOWN TO RIGHT OF LINE XX SEE SH. \*580

L74. N&S

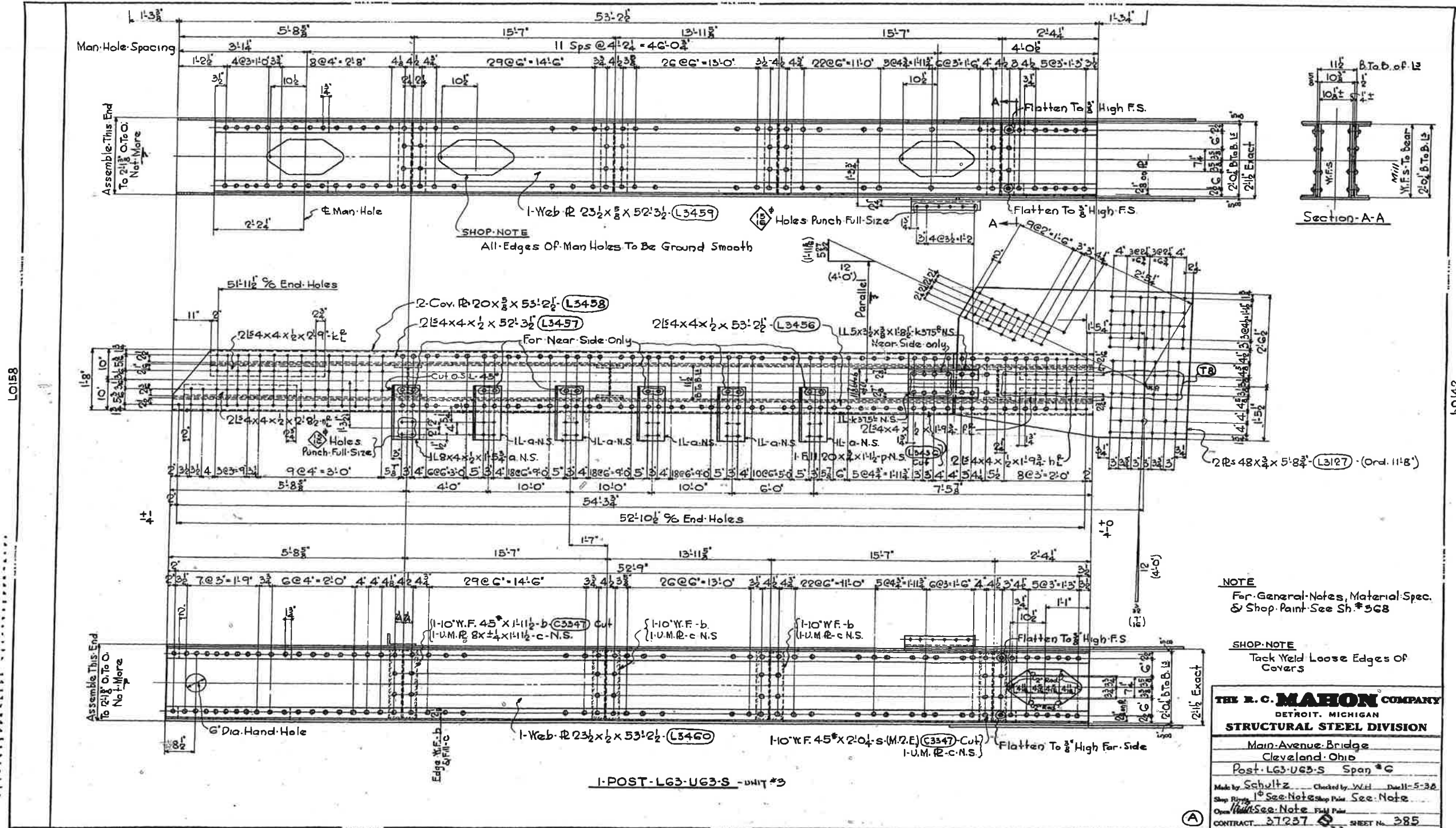
ONE-POST-L74-U74-N(RIGHT) ONE-POST-L74-U74-S(LEFT)







L0182



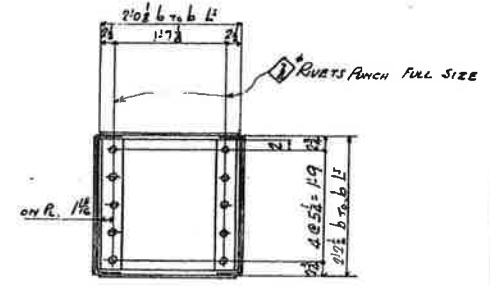
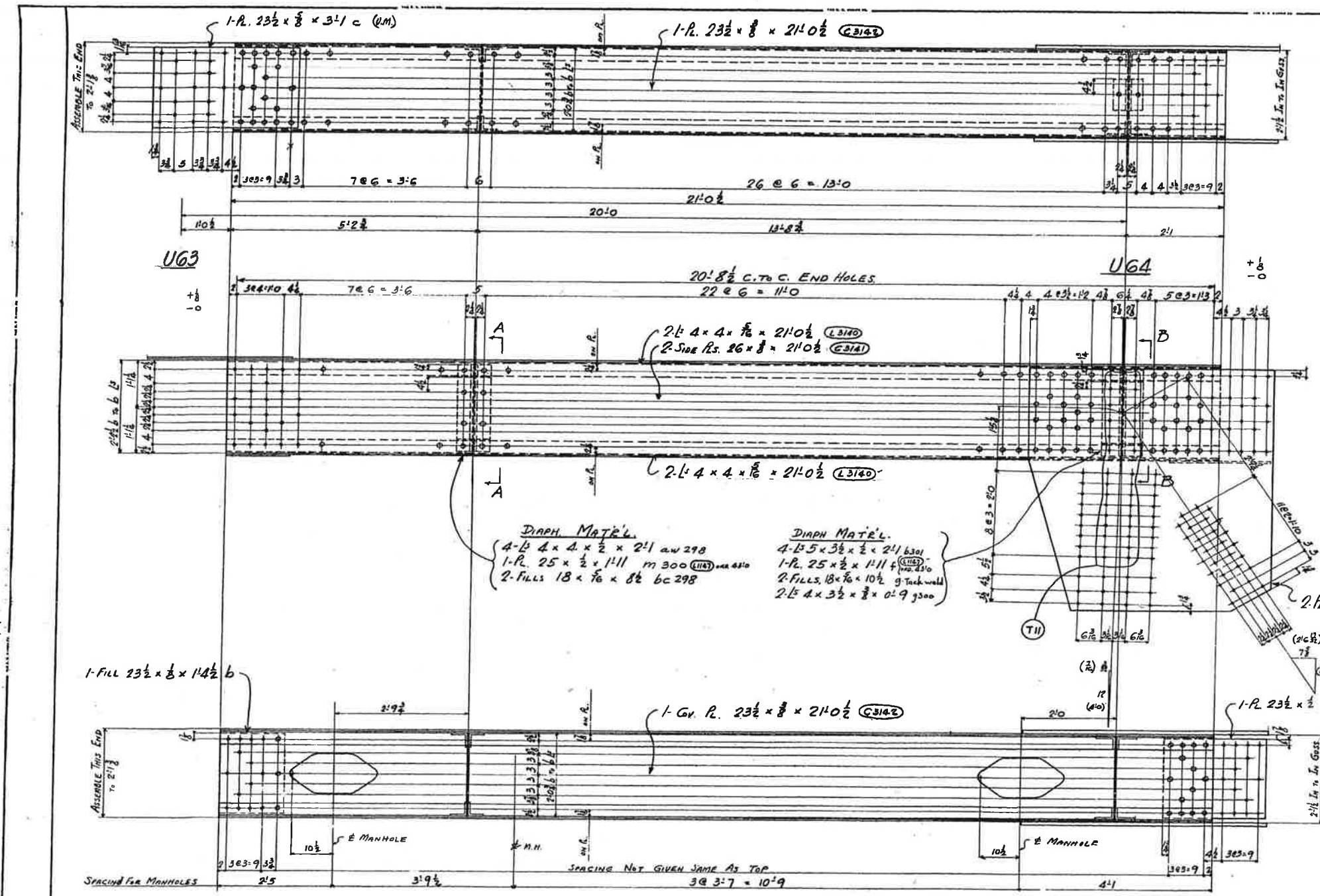
L0158

L0142

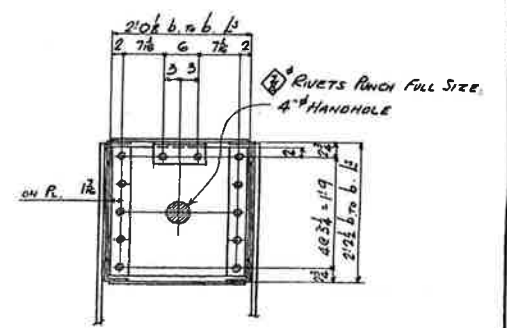
U63 S

1-POST-L63-U63-S-DW17\*3





SECTION A-A



SECTION B-B

U64 N

DIAPH. MAT'L.  
 { 4-L 4 x 4 x 2 x 2'1 aw 298  
 1-R 25 x 1/2 x 1'11 m 300 (L3140) 4210  
 2-FILLS 18 x 1/8 x 8 1/2 bc 298

DIAPH. MAT'L.  
 { 4-L 5 x 3 1/2 x 1/2 x 2'1 b301  
 1-R 25 x 1/2 x 1'11 f (L3140) 4210  
 2-FILLS 18 x 1/8 x 10 1/2 g tack wall  
 2-L 4 x 3 1/2 x 1/2 x 0'9 g300

1- TOP CHORD SECTION U63-U64 N-UNIT \*3

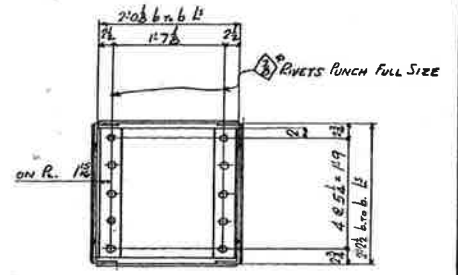
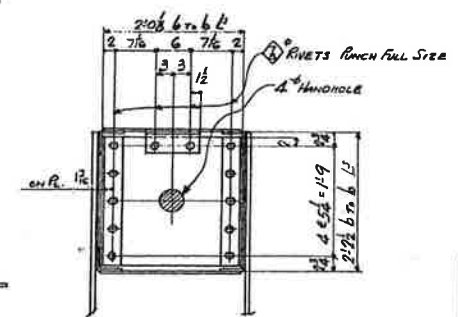
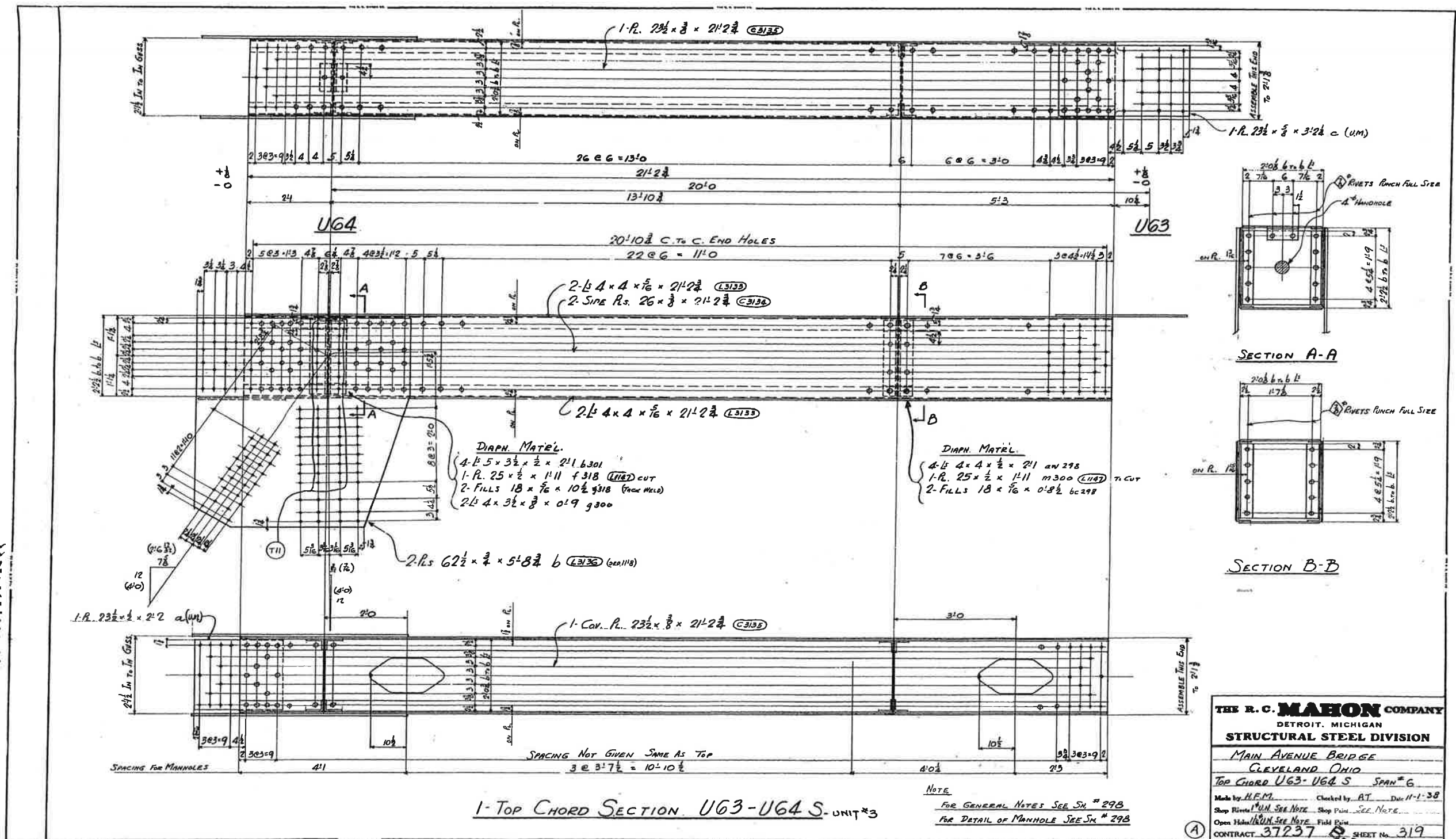
NOTES.  
 FOR GENERAL NOTES SEE SM # 298  
 FOR DETAIL OF MANHOLE SEE SM # 298

**THE R. C. MAHON COMPANY**  
 DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**

MAIN AVENUE BRIDGE  
 CLEVELAND, OHIO  
 TOP CHORD U63-U64 N. SPAN #6

Made by R.F.M. Checked by A.T. Date 10-25-38  
 Shop Rivets 1/2 UN. SEE NOTE Shop Paint SEE NOTE  
 Open Holes 1/2 UN. SEE NOTE Field Paint  
 CONTRACT 37237 SHEET No. 318





**DIAPH. MAT'L.**  
 4-# 5 x 3 1/2 x 1/2 x 21' 6 3/4  
 1-R. 25 x 1/2 x 11' 11" #318 (L1182) CUT  
 2-FILLS 18 x 7/8 x 10 1/2 #318 (FROM MAT'L)  
 2-# 4 x 3 1/2 x 3/8 x 0' 9" #300

**DIAPH. MAT'L.**  
 4-# 4 x 4 x 1/2 x 21' 0" AN 298  
 1-R. 25 x 1/2 x 11' 11" #300 (L1182) CUT  
 2-FILLS 18 x 7/8 x 0' 8 1/2 #298

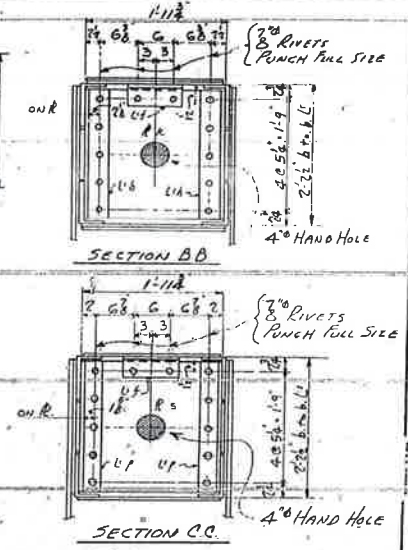
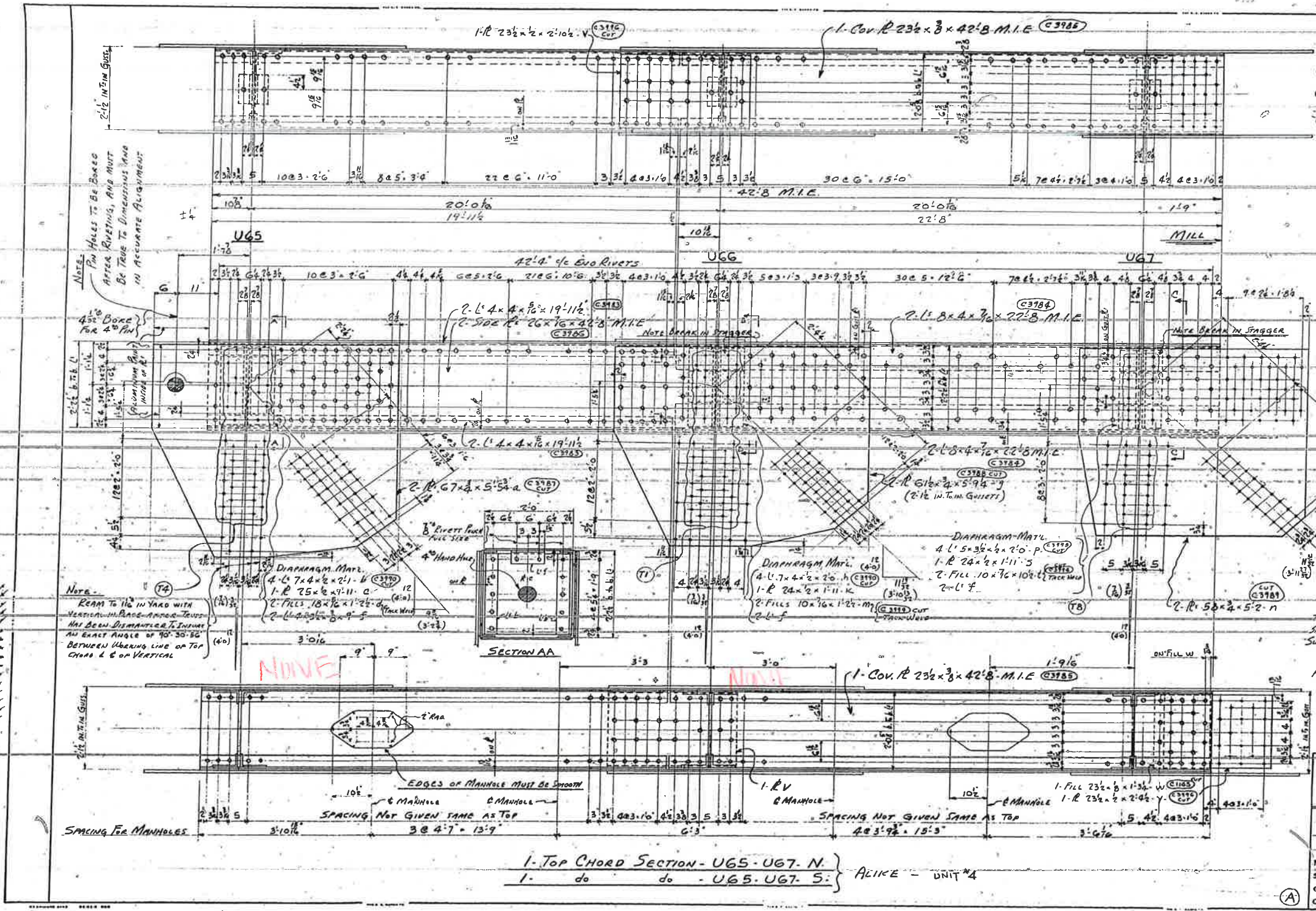
1-TOP CHORD SECTION U63-U64 S-UNIT #3

**NOTE**  
 FOR GENERAL NOTES SEE SM # 298  
 FOR DETAIL OF MANHOLE SEE SM # 298

**THE R. C. MAHON COMPANY**  
 DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**  
 MAIN AVENUE BRIDGE  
 CLEVELAND, OHIO  
 TOP CHORD U63-U64 S SPAN # 6  
 Made by H.E.M. Checked by A.T. Date 11-1-38  
 Shop Rivets PUNCH SEE NOTE Shop Paint SEE NOTE  
 Open Holes PUNCH SEE NOTE Field Paint  
 CONTRACT 37237 SHEET No. 319

U64 S





**GENERAL NOTES**

SHOP RIVETS - 1" UNLESS NOTED  
 OPEN HOLES - 1/8" EXCEPT AS NOTED  
 ALL HOLES SUB-PUNCHED AND REAMED TO 1/16" EXCEPT HOLES FOR 3" RIVETS IN DIAPHRAGMS WHICH MAY BE PUNCHED FULL SIZE  
 ALL HOLES IN GUSSET PL. TO BE SUB-PUNCHED 1/8" AND REAMED TO 1/16" AFTER TANGENTIAL ASSEMBLY  
 SHOP RIVETS IN GUSSET PL. TO BE DRIVEN AFTER TANGENTIAL ASSEMBLY  
 FIELD CONNECTIONS SUB-PUNCHED 1/8" REAMED TO 1/16" WITH MEMBERS ASSEMBLED EXCEPT HOLES MARKED WITH (T) WHICH ARE TO BE SUB-PUNCHED 1/8" REAMED TO 1/16" THEN METAL TEMPLATE WITH TANGENTIAL ASSEMBLY  
 HOLES IN MATERIAL OVER 1" THICK TO BE SUB-DRIILLED 1/8" AND REAMED TO 1/16" EDGE DISTANCES NOT GIVEN 1/2"

**SHOP PAINT**

THIS BRIDGE TO BE PAINTED  
 SHOP CONTACT SURFACES NOT PAINTED  
 SURFACES INACCESSIBLE AFTER ERECTION (WHERE INDICATED ON SHOP DRAWINGS) TO BE GIVEN ONE ADDITIONAL SHOP COAT OF ALUMINUM PAINT  
 FINISHED SURFACES TO BE GIVEN ONE COAT OF RUSHING COMPASS

**MATERIAL SPEC'S**

STRUCTURAL STEEL - ASTM A7-36 } WITH  
 RIVET STEEL - ASTM A191-36 }  
 COPPER BEARING COEFFICIENT OF 0.20

UG5 NPS  
 UG6 NPS  
 UG7 NPS

**THE R. C. MAHON COMPANY**  
 DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**

MAIN AVENUE BRIDGE  
 CLEVELAND, OHIO  
 TOP CHORD UG5-UG7 SPAN #7

Made by P.E. Checked by GAK Date 11-11-38  
 Shop Rivets 1/2" UNLESS SHOWN OTHERWISE SEE NOTE  
 Open Holes 1/8" UNLESS SHOWN OTHERWISE SEE NOTE

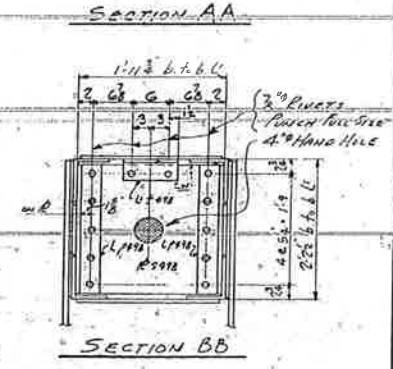
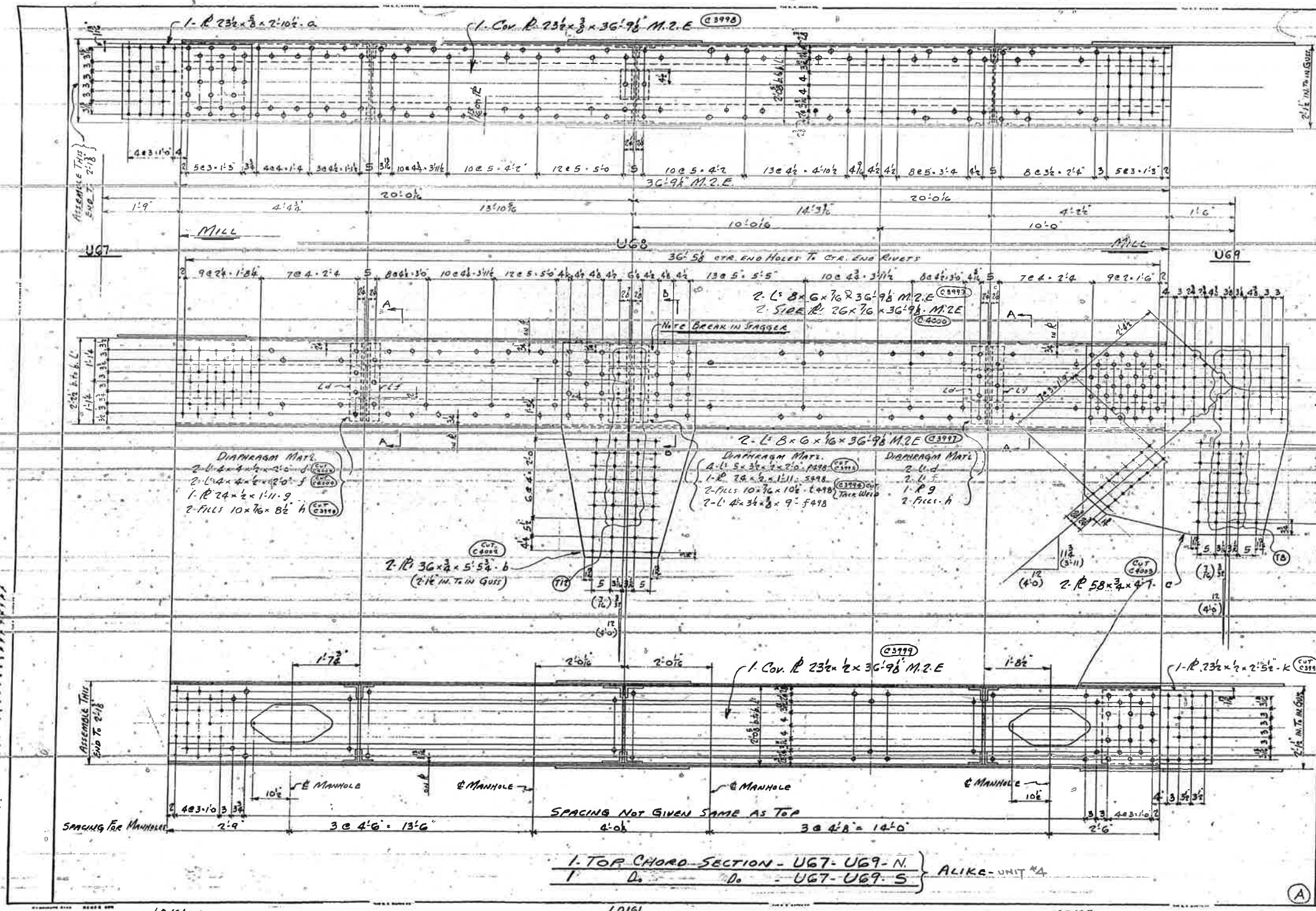
CONTRACT 37237 SHEET No. 498

LO160

LO160

LO161





UG8 N&S  
UG9 N&S

NOTES:  
FOR GENERAL NOTES SEE SHEET 498  
FOR DETAIL OF MANHOLES SEE SHEET 498

**THE R. C. MAHON COMPANY**  
DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**

MAIN AVENUE BRIDGE  
CLEVELAND, OHIO  
TOP CHORD UG7-UG9 SPAN 7

Made by: *RF* Checked by: *GAK* Dec 11-11-38  
Shop Rivets: 1\"/>

CONTRACT: 37237 SHEET No. 499

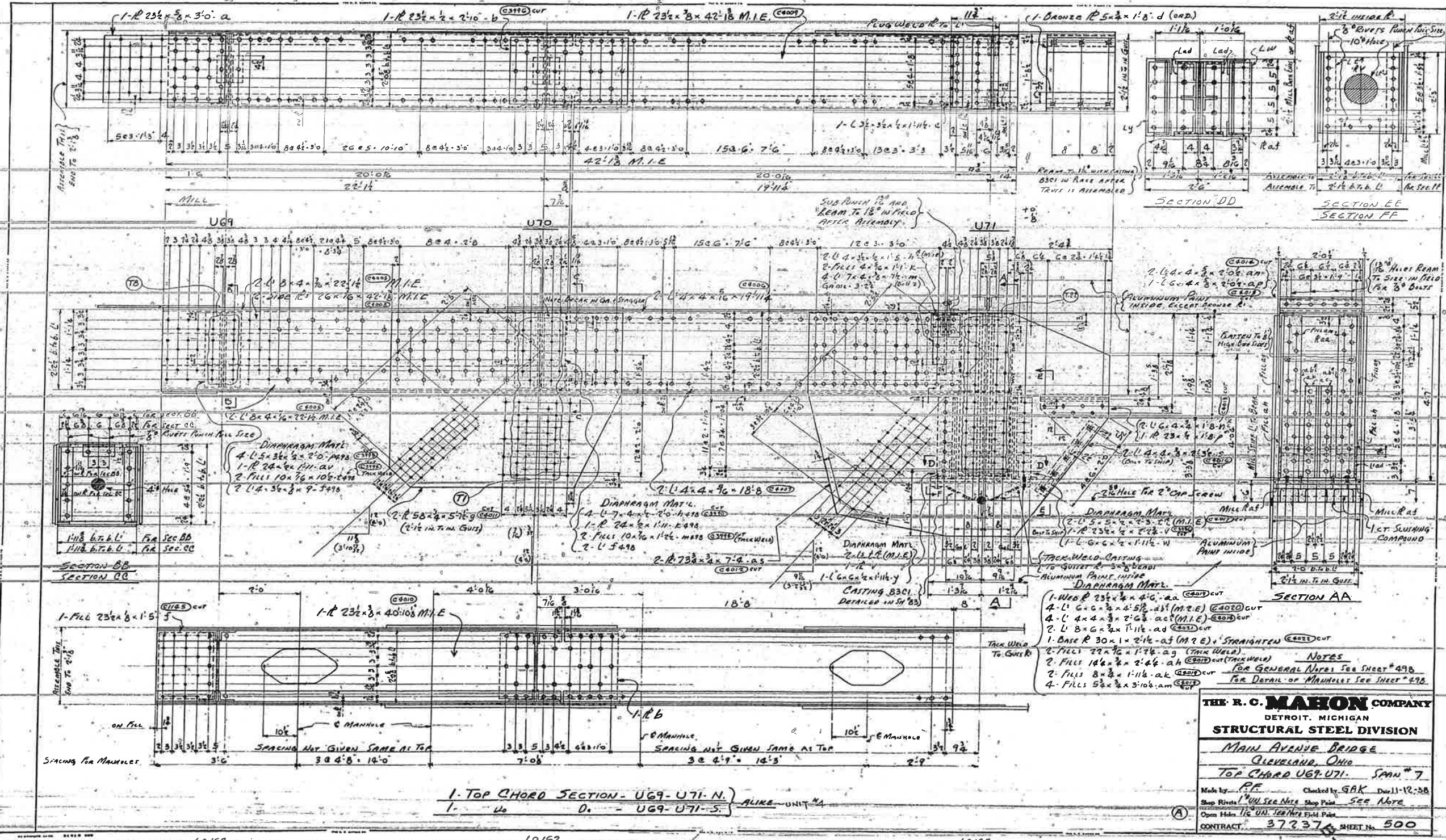
L0161

L0161

L0162

1-TOP CHORD SECTION - UG7-UG9-N } ALIKE-UNIT #4  
1 Do Do UG7-UG9-S }





U70 N&S  
U71 N&S

1-TOP CHORD SECTION - U69-U71-N.  
1-U<sub>0</sub> D<sub>0</sub> - U69-U71-S. ALIKE UNIT #4

**THE R. C. MAHON COMPANY**  
DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**

MAIN AVENUE BRIDGE  
CLEVELAND, OHIO  
TOP CHORD U69-U71. SPAN # 7

Made by P.F. Checked by G.B.K. Date 11-12-38  
Shop Rivets 1/2" UN. See Note Shop Paint SEE NOTE  
Open Holes 1/2" UN. See Note Shop Paint SEE NOTE

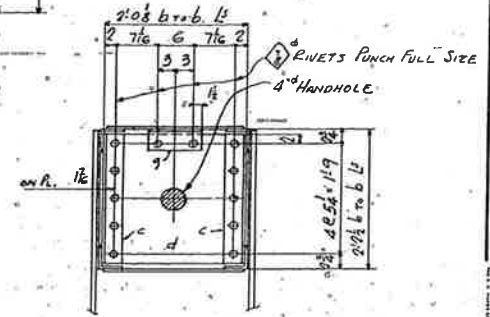
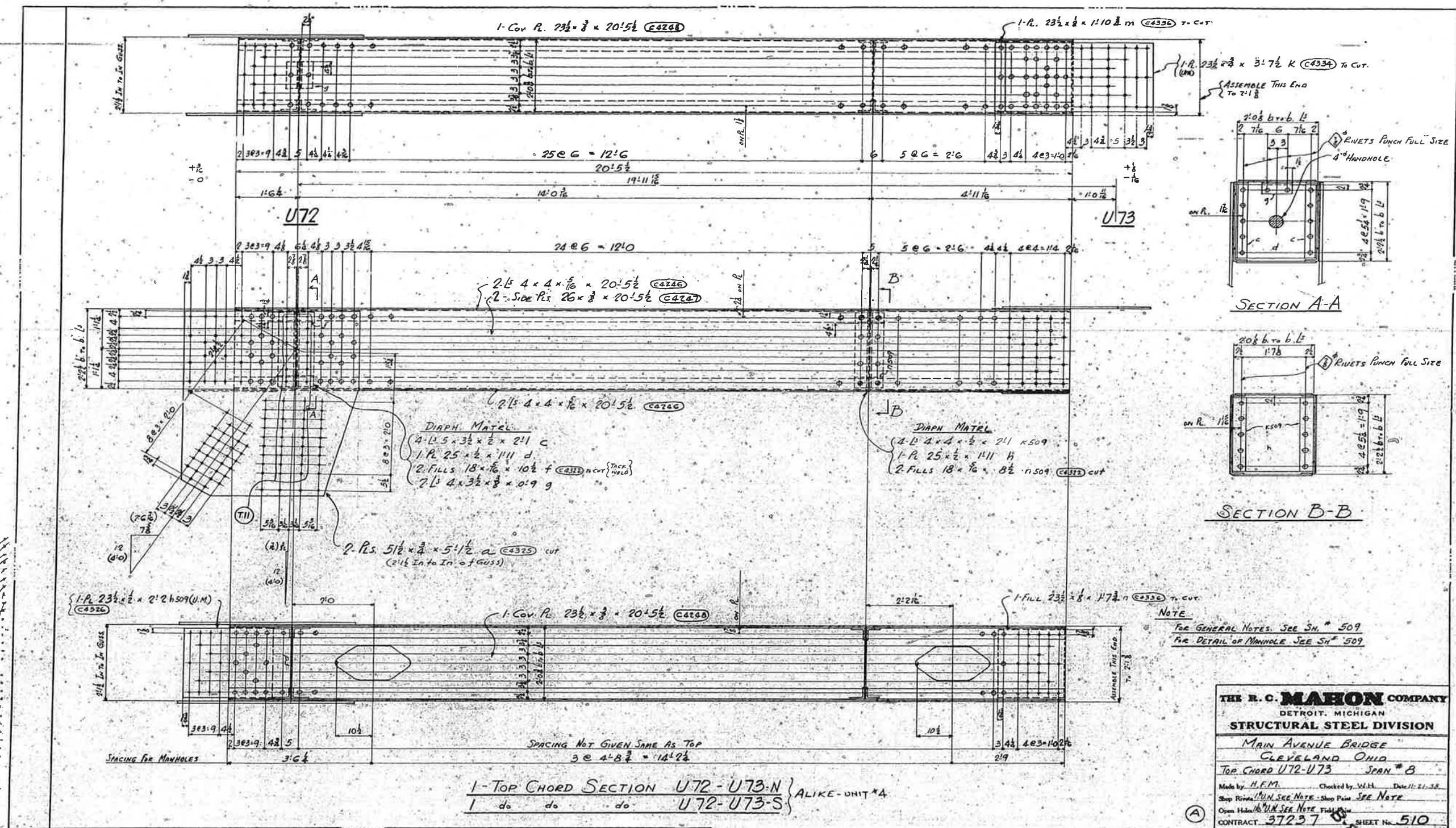
CONTRACT 37237 SHEET No 500

LO162

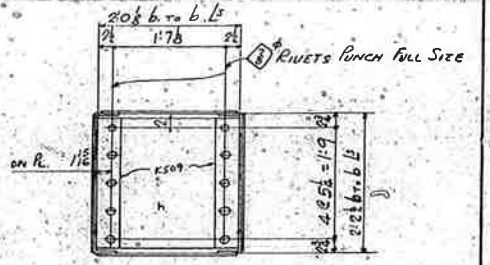
LO162

LO163





SECTION A-A



SECTION B-B

U72 N&S

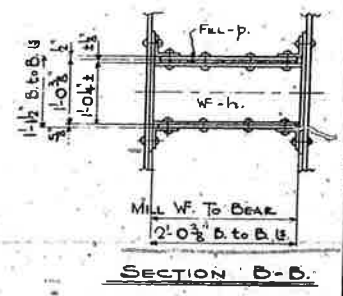
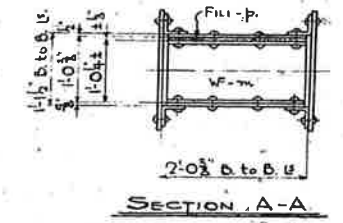
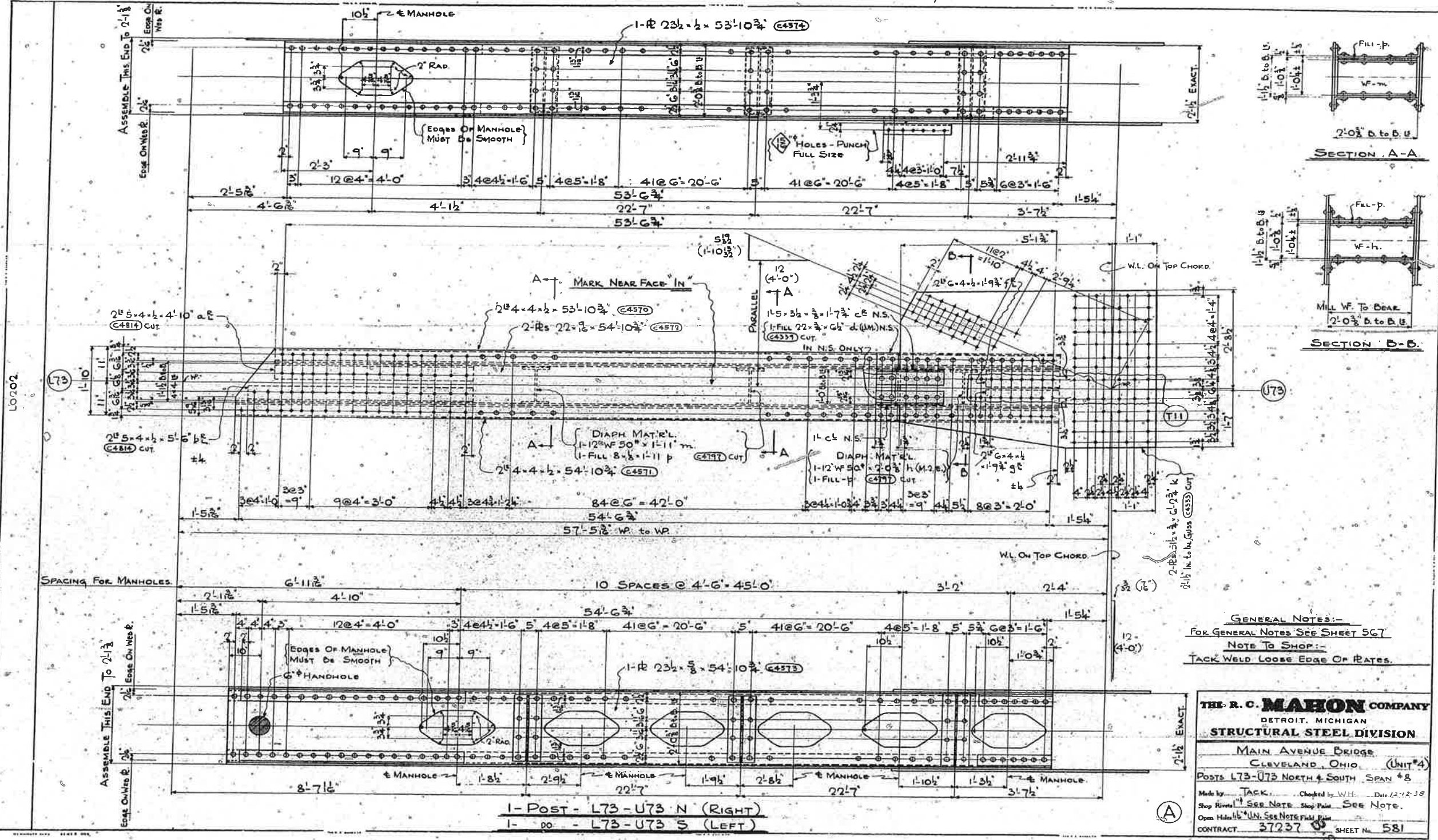
NOTE  
FOR GENERAL NOTES, SEE SH. # 509  
FOR DETAIL OF MANHOLE SEE SH. # 509

**THE R. C. MAHON COMPANY**  
DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**  
MAIN AVENUE BRIDGE  
CLEVELAND, OHIO  
TOP CHORD U72-U73 SPAN # 8  
Made by: H.F.M. Checked by: W.H. Date: 11-21-38  
Shop Review: H.F.M. SEE NOTE - Shop Print SEE NOTE  
Open House: H.F.M. SEE NOTE - Field Print  
CONTRACT 37237 SHEET No. 510

1-TOP CHORD SECTION U72-U73-N } ALIKE-UNIT #4  
1 do do do U72-U73-S }



L0239



U73 N/S

GENERAL NOTES:-  
FOR GENERAL NOTES SEE SHEET 567  
NOTE TO SHOP:-  
TACK WELD LOOSE EDGE OF PLATES.

**THE R. C. MAHON COMPANY**  
DETROIT, MICHIGAN  
**STRUCTURAL STEEL DIVISION**  
MAIN AVENUE BRIDGE  
CLEVELAND, OHIO (UNIT #4)  
POSTS L73-U73 NORTH & SOUTH SPAN #8  
Made by TACK Checked by W.H. Date 12/2/38  
Shop Rivets SEE NOTE Shop Paint SEE NOTE.  
Open Holes UN. SEE NOTE FULL PLAN  
CONTRACT 37237 SHEET No. 581

1- Post - L73-U73 N (RIGHT)  
1- DO - L73-U73 S (LEFT)



