

ONE - CHORD MEMBER - MARK - U10-12 (T1) RS SHOWN
 ONE - " " - " - U10-12 (T2) OPP. HAND
 ONE - " " - " - U16-14 (T2) RS SHOWN
 ONE - " " - " - U16-14 (T1) OPP. HAND

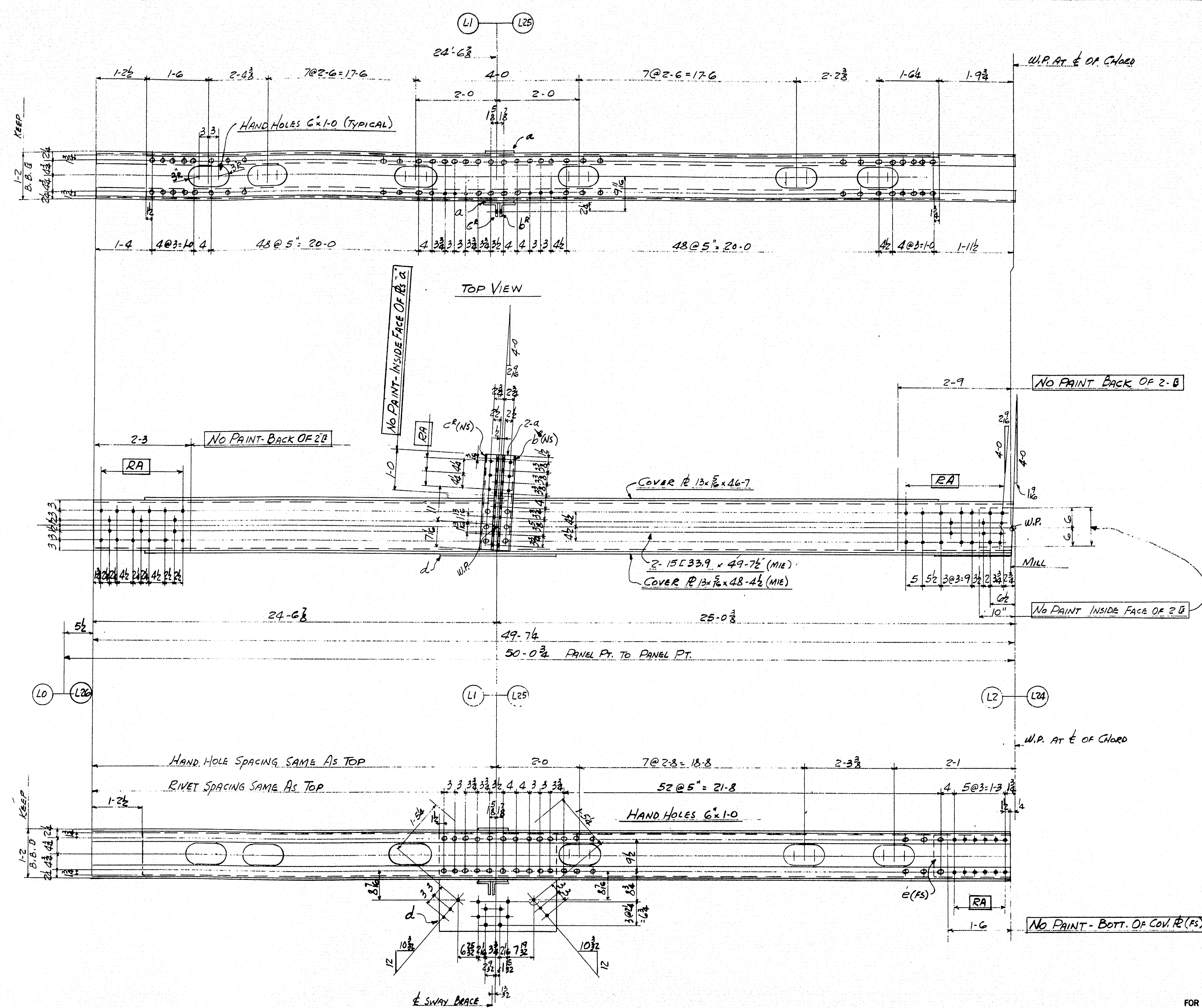
WT. OF ONE = 6635.

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

CHORD MEMBERS U10-12 (T1) U16-14 (T1)
 U10-12 (T2) U16-14 (T2)

FOR NOTES ON SPECIFICATIONS, MATERIAL,
PAINTING, PUNCHING, DRILLING, REAMING, ETC.
SEE SHEET X50
ALL RIVET HOLES & OPEN HOLES
PUNCHED FULL SIZE UNLESS NOTED
[RA] OR [RT]

RIVETS	<u>8</u>	DIAM.	OPEN HOLES	<u>15</u>	DIAM.	HARRIS STRUCTURAL STEEL CO. 618 FORTUNE AVE. N.Y.
UNLESS OTHERWISE NOTED				<u>16</u>		
REVISIONS						12/7/49
DRAWN, MADE BY <u>JWV</u>						DATE <u>12-29-49</u>
DRAWN, CHECKED BY <u>E</u>						DATE <u>12-29-49</u>
CONTRACT No. <u>C378</u>						SHEET No. <u>117</u>



MAKE ONE CHORD MEMBER - MARK LO-2 (T1) AS SHOWN

LO-2 (T2) OPP HAND
L26-24 (T1) OPP HAND
L26-24 (T2) AS SHOWN

WT OF ONE = 4901

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50

ALL RIVET HOLES & OPEN HOLES PUNCHED FULL SIZE UNLESS NOTED [RA]

SHIP	REQ'D	MADE UP OF							
No	No	MARK	No	R. MK	SIZE	LENGTH	REMARKS	ORD	WEIGHT
4	1	LO-2 (T1)							
4	1	LO-2 (T2)							
5	1	L26-24 (T1)							
5	1	L26-24 (T2)							
			8		15C33.9	49-7 1/2	MIE	9-418-52	13460
			4	COV	R 1/2 x 1/2	46-7		9-419-28	2573
			4	DO	DO	48-4 1/2	MIE	9-420-24	2673
			8	a	R 8 x 1/2	2-4 1/2		113-22	224
			4	6E	1/2 x 3/8	2-4 1/2		119-9	86
			4	CE	DO	2-4 1/2		DO	86
			4	d	R 2 1/2 x 3/4	2-10		9-423-5	411
			4	e	Full 1/2 x 1/2	1-10			20
		1720			30 RVS				691
GROSS WT.									20224
WT. DED.									698
NET WT.									19526
PAINT									78
TOTAL WT.									19604

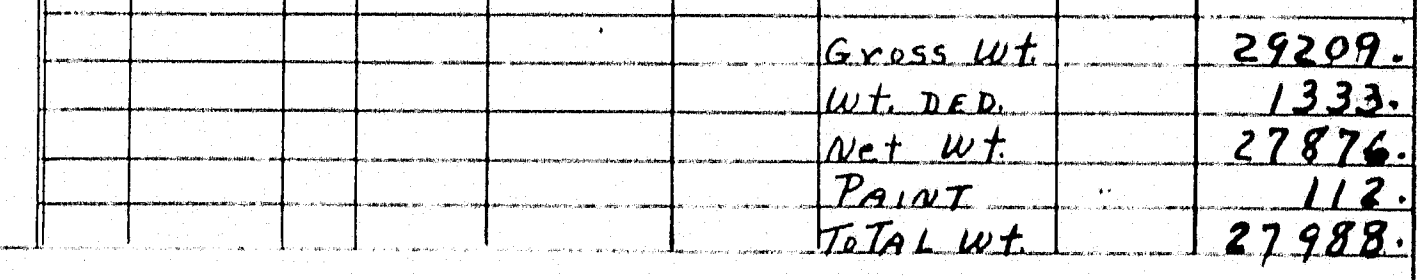
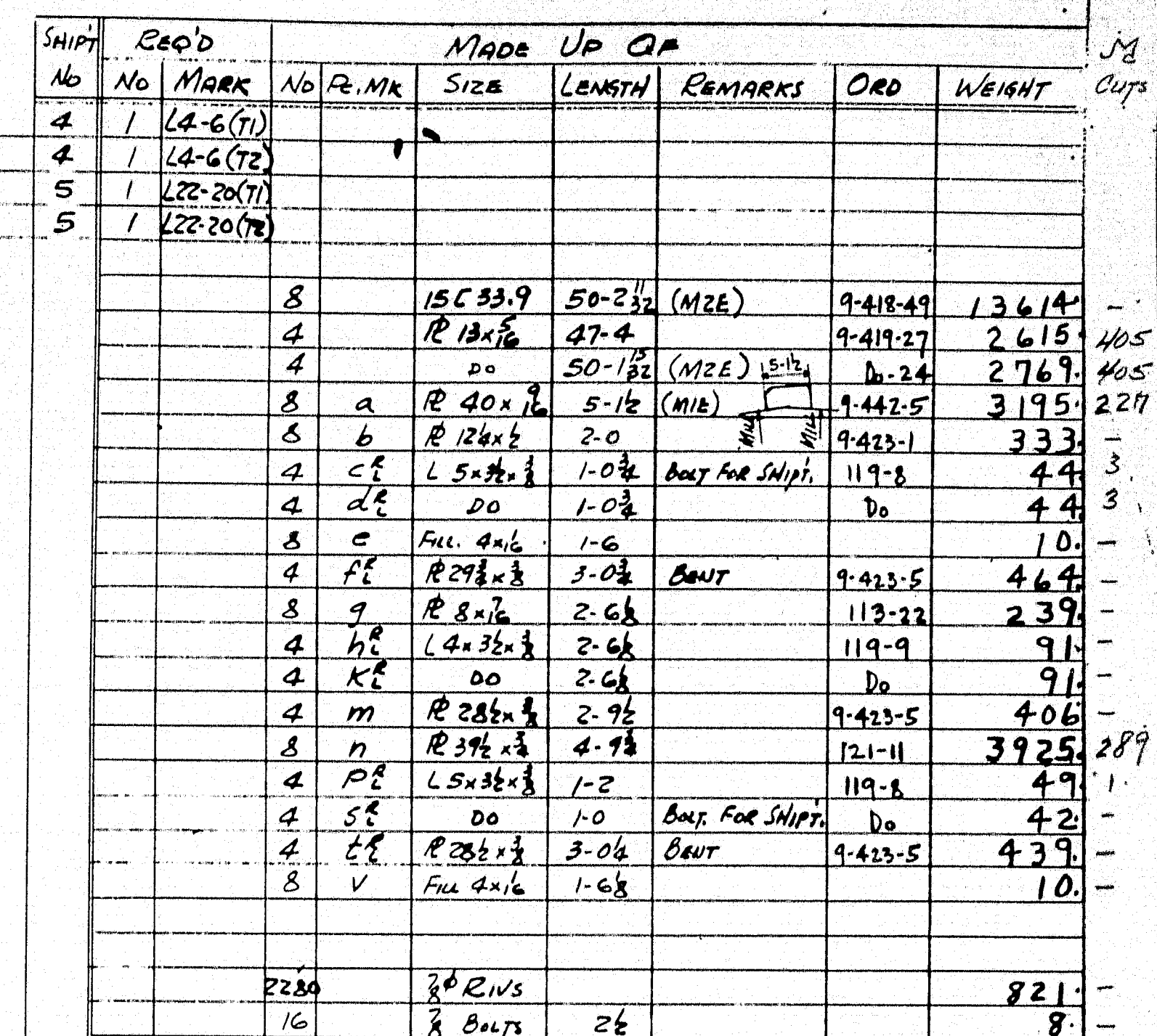
ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

CHORD MEMBERS LO-2 (T1) - L26-24 (T1)
LO-2 (T2) - L26-24 (T2)

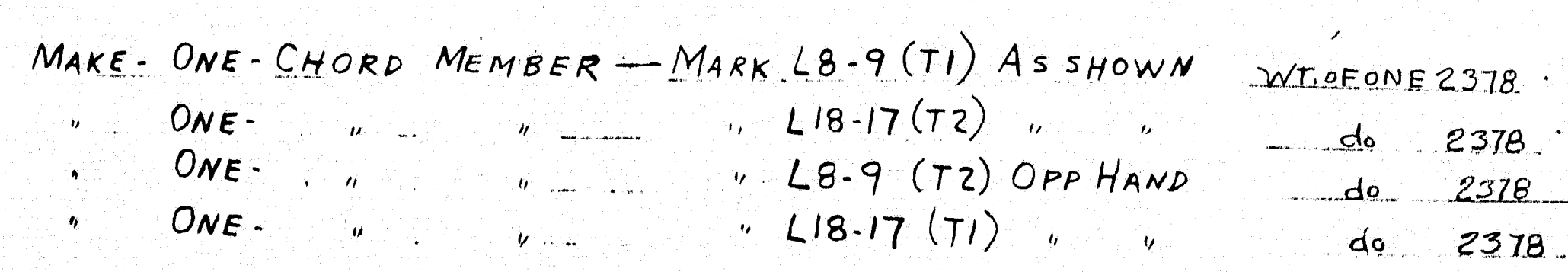
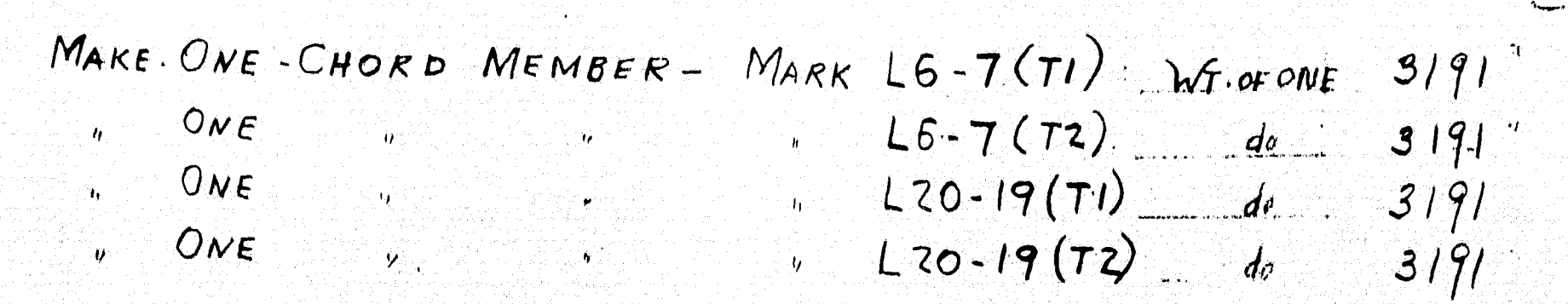
REVISED	DATE	BY	REASON
1	12-1-49	CZ	
2	1-11-50	W.P.	

HARRIS STRUCTURAL STEEL CO.
410 FOURTH AVE., N. Y.

CONTRACT No. C278 SHEET No. 120

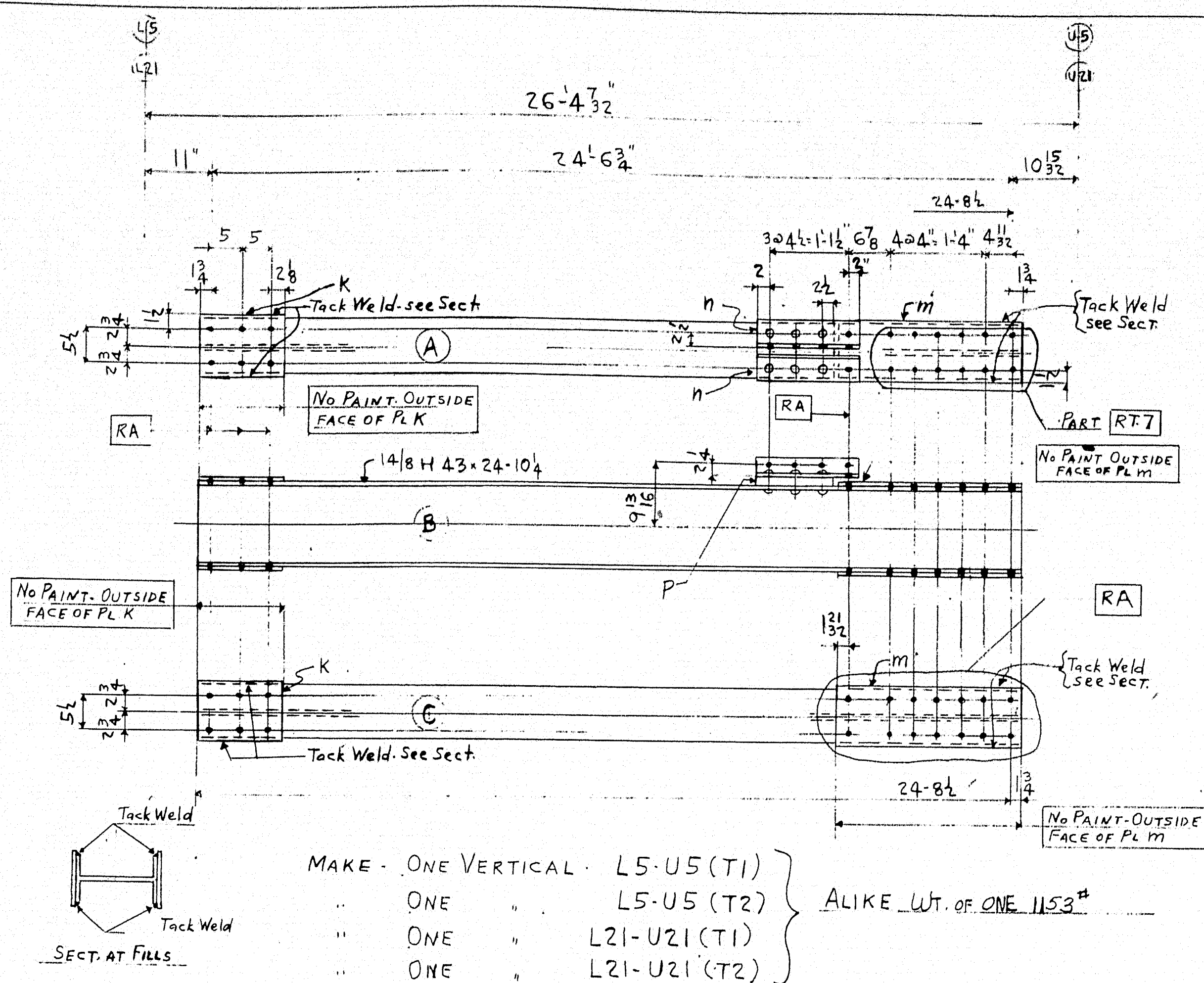


RIVETS $\frac{7}{8}$	DIAM.	OPEN HOLES $\frac{1 1/8}{16}$	DIAM.	HARRIS STRUCTURAL STEEL CO. 619 FOURTH AVE. N. Y.
UNLESS OTHERWISE NOTED				
REVISIONS				
				12-8-54 DRAWN, MADE BY <u>W.P.</u> DATE <u>12-11-54</u>
				CHECKED BY <u>W.P.</u> DATE <u>12-11-54</u>
				CONTRACT No. <u>5375</u> SHEET No. <u>122</u>

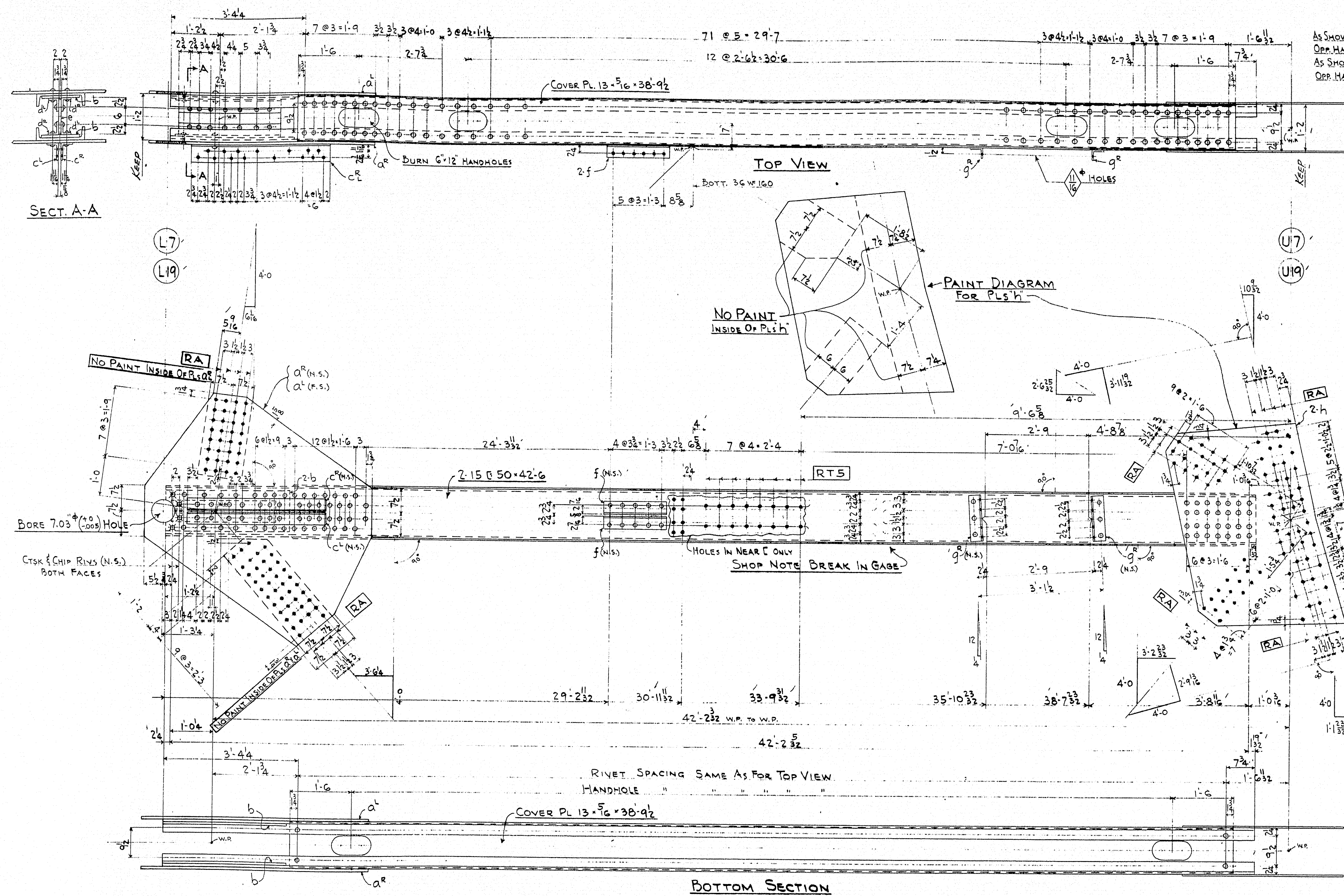


ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-151 2.
CONTRACT No. 2

HEWLETT STRUCTURAL STEEL CO.
 410 PINEHURST AVE., N. Y.
 DRAWN, MADE BY N M DATE 12-6-49
 DRAWN, CHECKED BY W P DATE 1-11-50
 CONTRACT NO. C378 SHEET NO. 123



48-135



SHIFT	NO.	REQD		MADE UP OF							CUTS
		NO.	MARK	NO.	P.C.M.K.	SIZE	LENGTH	REMARKS	ORD.	WEIGHT	
AS SHOWN	4	1	L7-U7(T1)								
OPP. HAND	4	1	L7-U7(T2)								
AS SHOWN	5	1	L19-U19(T1)								
OPP. HAND	5	1	L19-U19(T2)								
		8				15 C 50	42'-6"		7-418-37	17000	44
		8				PLS 13-5/8	38'-9"		9-419-21	4286	38
		8	a			PLS 51-7/8	5'-8"		9-442-2	7059	171
		8	b			" 12-3/4	3'-0"		113-6	749	35
		8	c			1/2 5-3/4	3'-5"		119-8	288	
		16	d			1/2 4-3/8	2'-5"		119-10	337	
		4	e			PLS 10-1/2	2'-5"	MIE	113-11	166	
		8	f			1/2 4-3/8	1'-6"		119-9	109	
		8	g			1/2 3-3/8	1'-0"		1-422-1	53	
		8	h			PL 41-3/4	5'-5"		7-442-4	3536	382
						2472 RNS	7'-8"			890	
										Gross Wt.	34473
										Wt. Ded.	1313
										Net Wt.	33160
										Paint	132
										Tot. Wt.	33292

MAKE ONE VERTICAL AS SHOWN MARK	L7-U7 (T1)	WT. OF ONE	8323
" ONE "	OPP. HAND	" L7-U7 (T2)	do 8323
" ONE "	AS SHOWN	" L19-U19 (T2)	do 8323
" ONE "	OPP. HAND	" L19-U19 (T1)	do 8323

FOR NOTES: 1. SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50
ALL RIVET HOLES AND OPEN HOLES PUNCH FULL SIZE UNLESS NOTED
RA OR RT

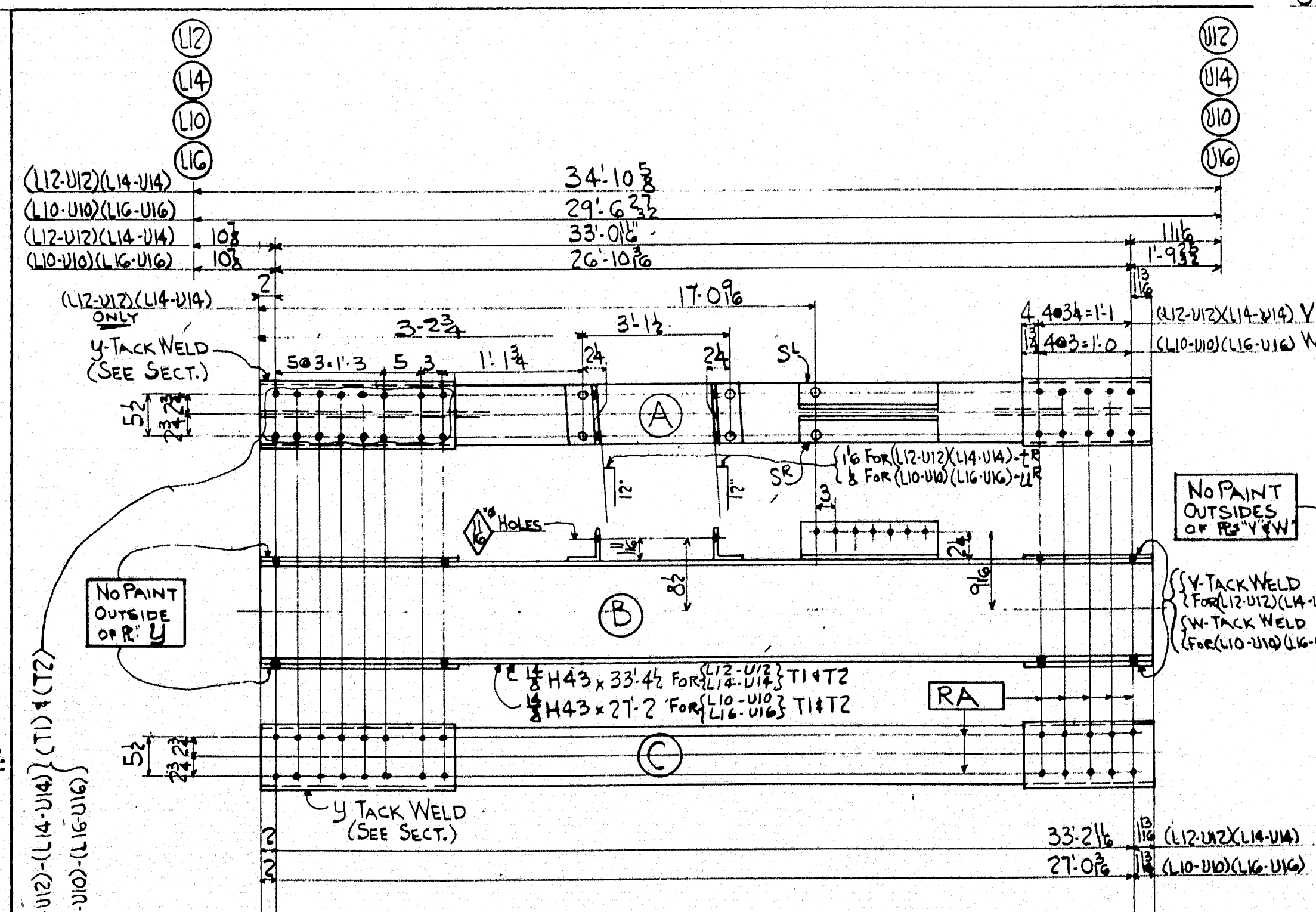
ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

VERTICALS L7-U7 (T1) & L7-U7 (T2)
L19-U19 (T1) & L19-U19 (T2)

HARRIS STRUCTURAL STEEL CO.
419 FOURTH AVE., N. Y.

REVISIONS

DRAWN BY: A.H. DATE: 11-23-49
DRAWN CHECKED BY: W.P. DATE: 1-14-50
CONTRACT No. S 378 SHEET No. 129



MAKE	ONE	VERTICAL -	LO-UO (T1)	} AS SHOWN	ALIKE	} Wt of ONE = 1977
"	ONE	"	- L2G-U2G (T2)			
"	ONE	"	- LO-UO (T2)	} OPP HAND	ALIKE	
"	ONE	"	- L2G-U2G (T1)			

FOR NOTES ON SPECIFICATIONS, MATERIAL,
PAINTING, PUNCHING, DRILLING, REAMING, ETC.
SEE SHEET X50

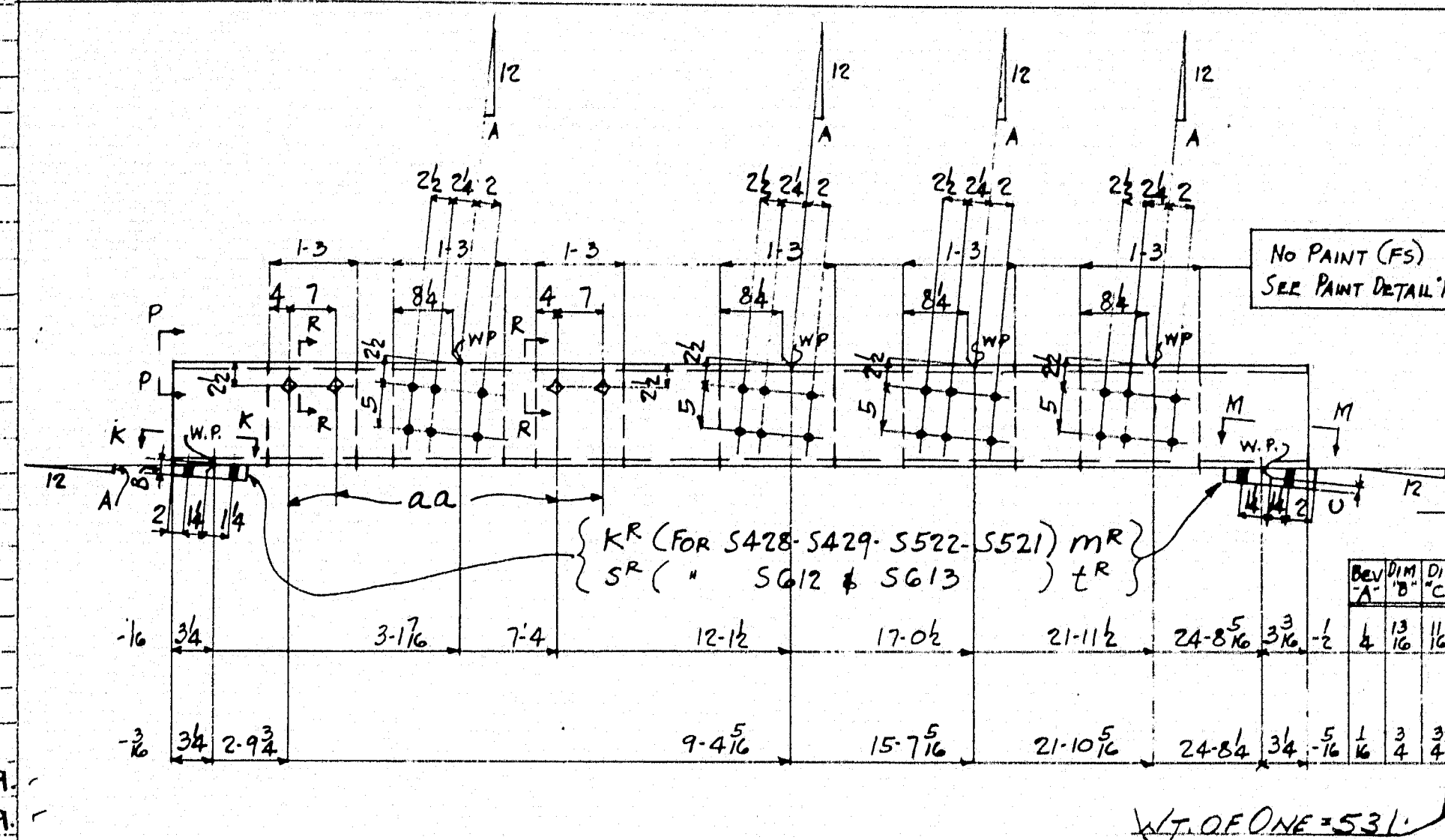
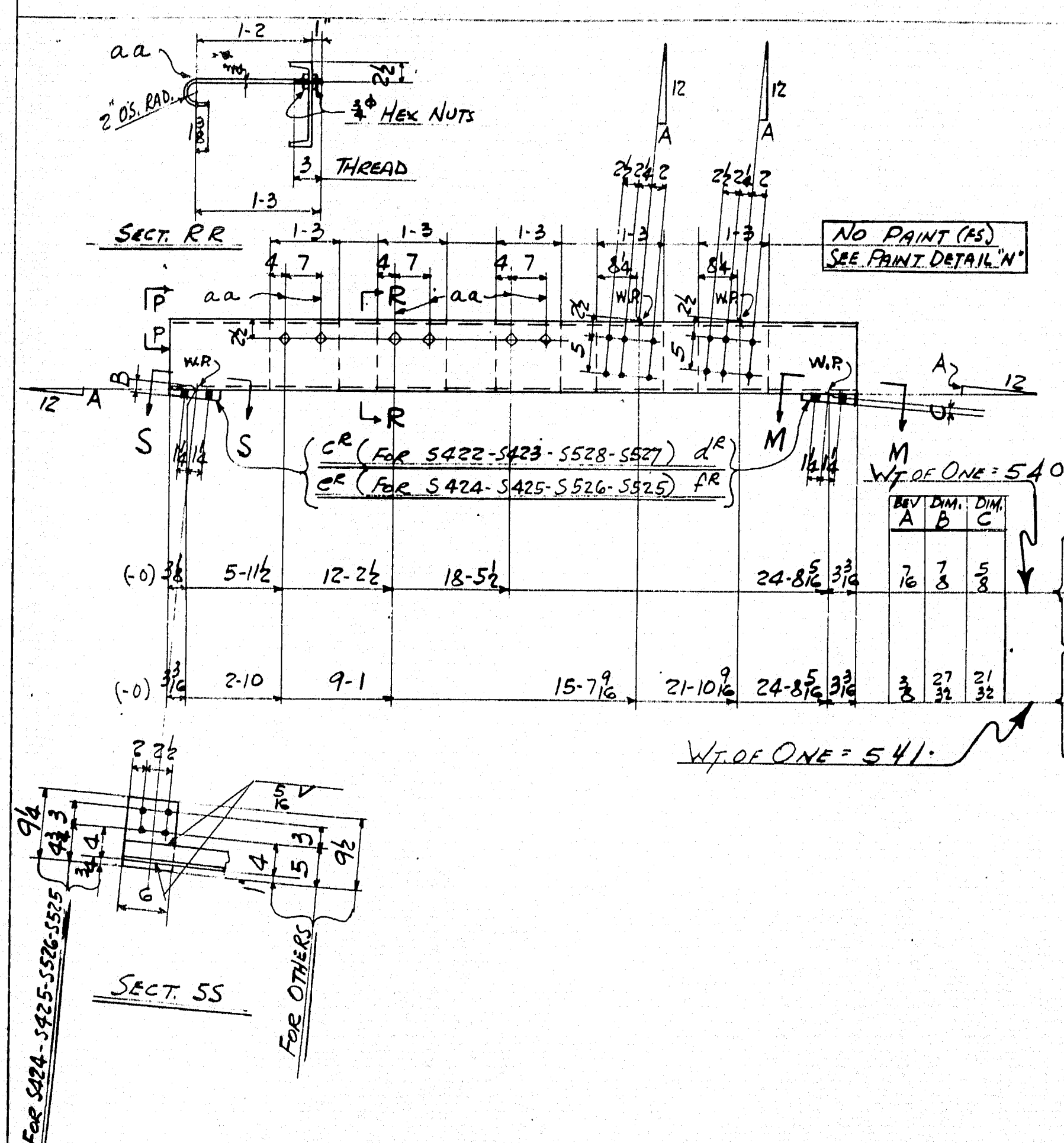
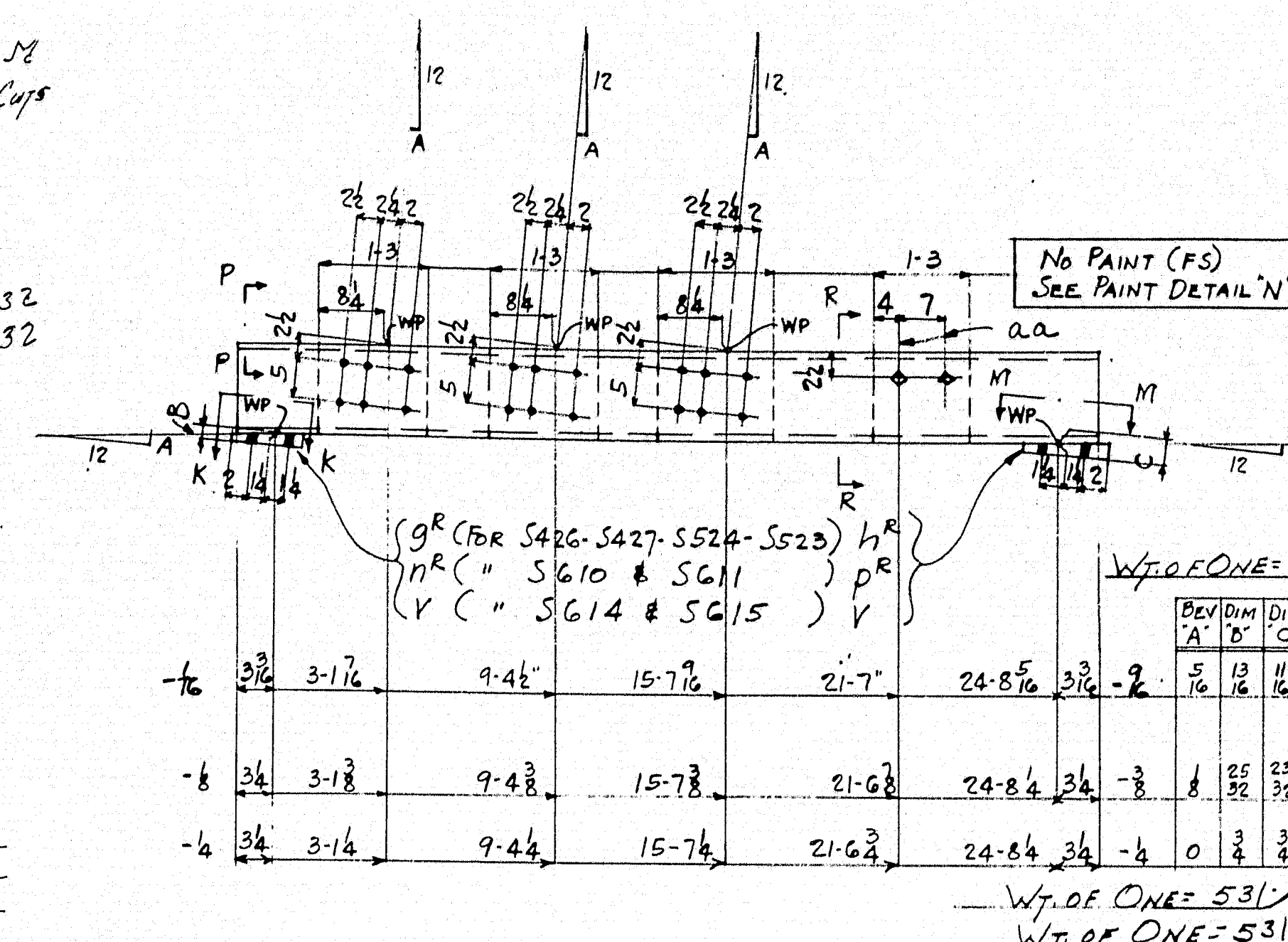
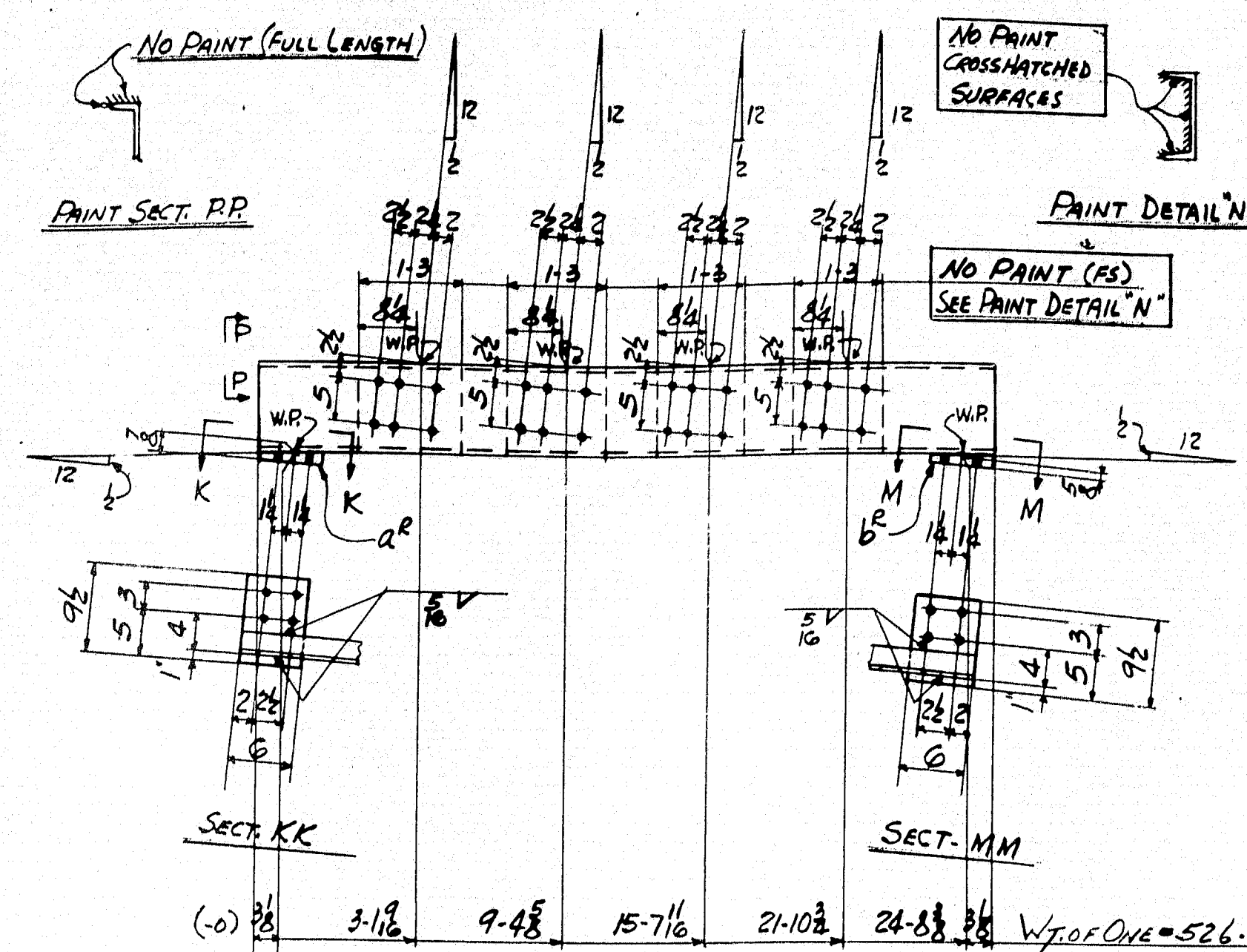
ALL RIVET HOLES AND OPEN
HOLES RUNCH FULL SIZE UNLESS
NOTED RA OR RT

VERTICAL MEMBERS

HARRIS STRUCTURAL STEEL CO.
419 FOURTH AVE., N. Y.

DRAW. MADE BY FE DATE 12-2-49
DRAW. CHECKED BY W.P. DATE 1-19-50
CONTRACT No. C378 SHEET No. 130

RIVETS $\frac{7}{8}$ " DIAM.		OPEN HOLES $\frac{15}{16}$ " DIAM.	
UNLESS OTHERWISE NOTED			
REVISIONS			

[illegible]

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

SIDEWALK STRINGERS

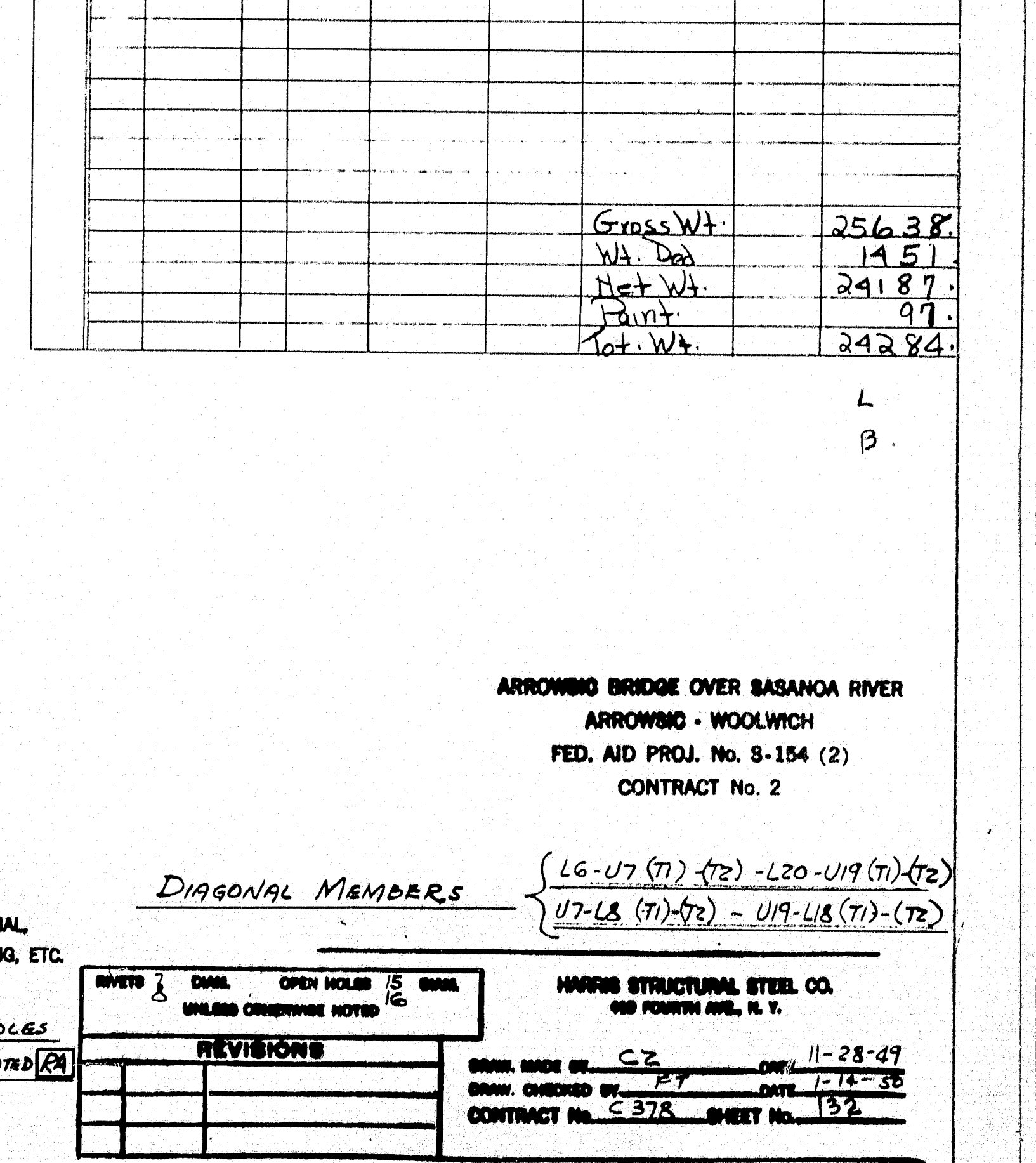
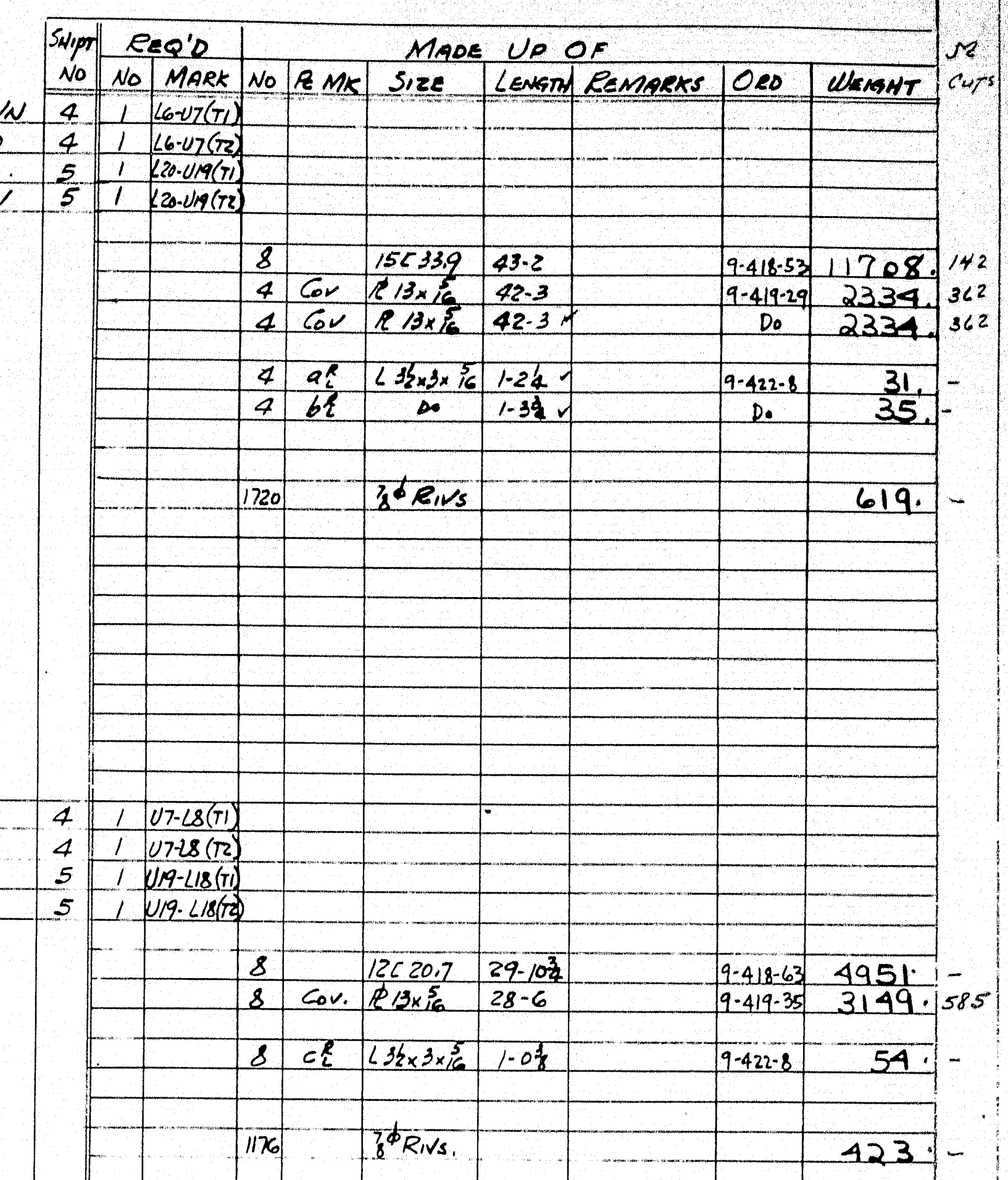
FOR NOTES ON SPECIFICATIONS, MATERIAL
PAINTING, PUNCHING, DRILLING, REAMING, ETC.
SEE SHEET X50

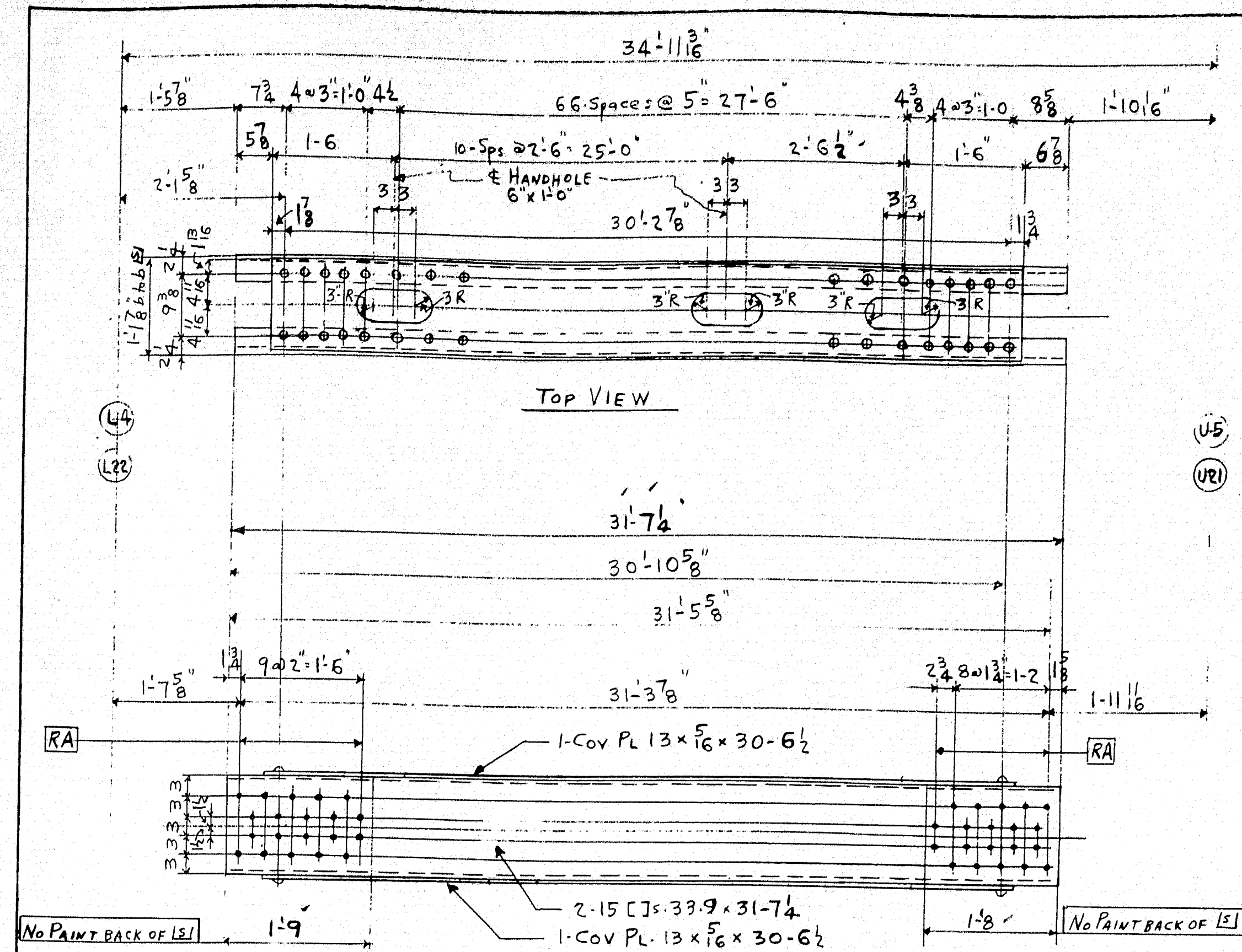
RIVETS 8 DIAM. OPEN HOLES 15 DIAM.
UNLESS OTHERWISE NOTED 16

HARRIS STRUCTURAL STEEL CO.
619 FOURTH AVE., N. Y.

REVISIONS				
PL	3	10	5	10

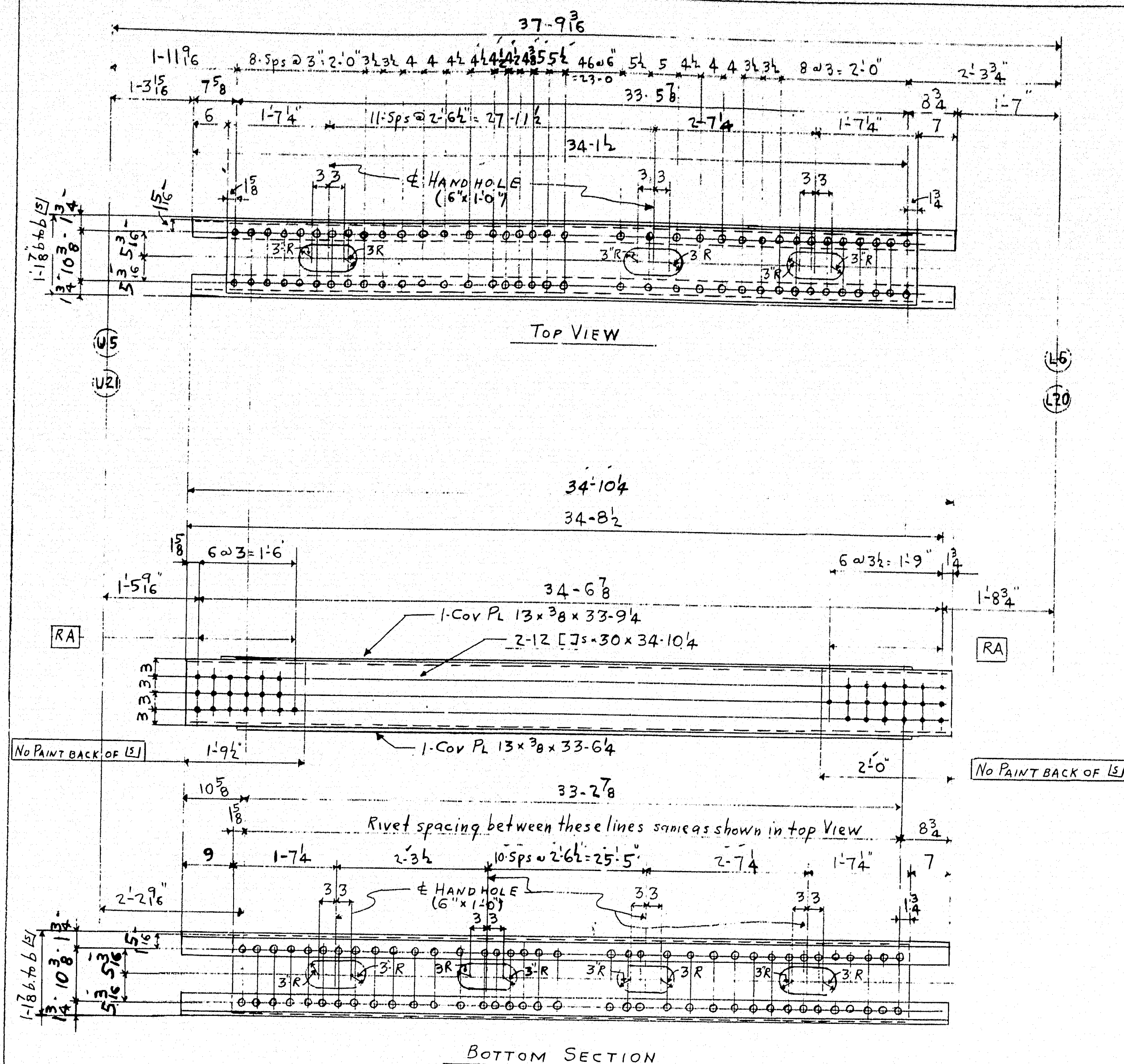
DRAW. MADE BY HLJ DATE 2/10/50
DRAW. CHECKED BY W. J. [unclear] DATE 2-13-50
CONTRACT No. C378 SHEET No. 131





BOTTOM FLANGE SAME AS TOP FLANGE

MAKE ONE DIAGONAL MARK L4-U5 (T1)
 " ONE " " L4-U5 (T2) } WT OF ONE = 2977.
 " ONE " " L22-U21 (T1)
 " ONE " " L22-U21 (T2)



MAKE ONE DIAGONAL MARK U5-L6 (T1)
 " ONE " " U5-L6 (T2) } WT OF ONE = 3156 #
 " ONE " " U21-L20 (T1)
 " ONE " " U21-L20 (T2)

SHPT	REQD	MADE UP OF	NO	PCMK	SIZE	LENGTH	REMARKS	ORD	WEIGHT
4	1	L4-U5 (T1)							
4	1	L4-U5 (T2)							
5	1	L22-U21 (T1)							
5	1	L22-U21 (T2)							
			8		15 H 3/8 x 31'-7 1/4			9-418-54	8570.
			8	Cov	PL 13 x 5/16 x 30'-6 1/2			9-419-33	3374.
			1232		Rivets 7/8"				444.
4	1	U5-L6 (T1)							
4	1	U5-L6 (T2)							
5	1	U21-L20 (T1)							
5	1	U21-L20 (T2)							
			8		12 H 3/8 x 34'-10 1/4			9-418-57	8364.
			4	Cov	PL 13 x 3/8 x 33'-9 1/4			9-419-14	2240.
			4	Cov	PL 13 x 3/8 x 33'-6 1/4			Do	2223.
			1288		Rivets 7/8"				464.
Gross Wt.									25679.
Wt. Ded.									1296.
Net Wt.									24433.
Paint									99.
Tot. Wt.									24532.

ARROWSIC BRIDGE OVER SABANOA RIVER
 ARROWSIC - WOOLWICH
 FED. AID PROJ. No. 8-154 (2)
 CONTRACT No. 2

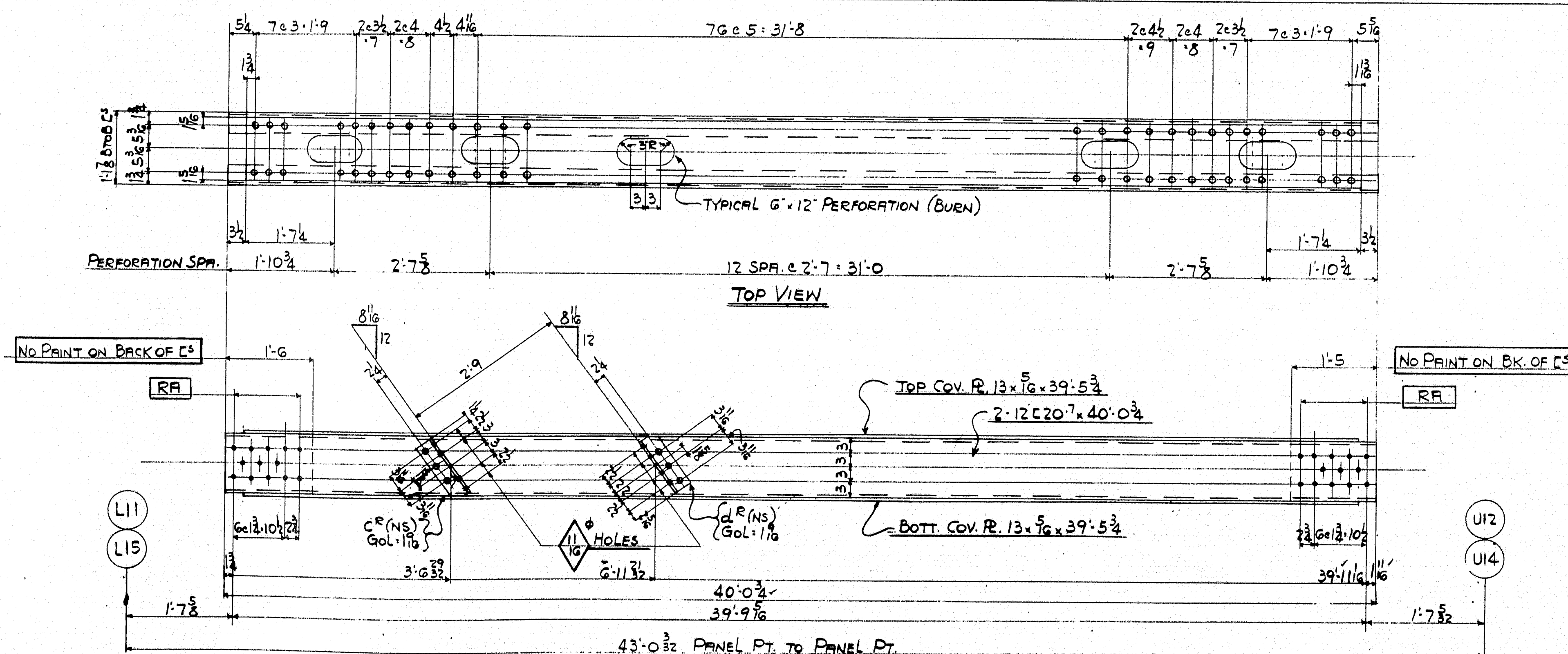
DIAGONALS: L4-U5 (T1) & L4-U5 (T2)
 L22-U21 (T1) & L22-U21 (T2)
 U5-L6 (T1) & U5-L6 (T2)
 U21-L20 (T1) & U21-L20 (T2)

FOR NOTES ON SPECIFICATIONS, MATERIAL,
 PAINTING, PUNCHING, DRILLING, REAMING, ETC.
 SEE SHEET K-10
 ALL RIVET HOLES AND OPEN
 HOLES PUNCHED FULL SIZE
 UNLESS NOTED [RA]

REVISIONS	DATE	BY	CHKD

HARRIS STRUCTURAL STEEL CO.
 510 FOURTH AVE., N. Y.

DRAWN BY: N.M. DATE: 12-8-49
 CHECKED BY: P.T. DATE: 1-16-50
 CONTRACT No. C378 SHEET No. 133



MAKE - ONE - DIAGONAL - MARK - L11-U12 (T1)	AS SHOWN
" - ONE - " - " - L11-U12 (T2)	OPP. HAND
" - ONE - " - " - L15-U14 (T2)	AS SHOWN
" - ONE - " - " - L15-U14 (T1)	OPP. HAND

Wt. of ONE = 2765

RS SHOWN	6	1	L11-U12 (T1)						
OPP. HAND	6	1	L11-U12 (T2)						
RS SHOWN	6	1	L15-U14 (T2)						
OPP. HAND	6	1	L15-U14 (T1)						

	8	12520.7	40.034	9-418-61	6634.	-
	8	Covs.	R 13x76	39.53	9-419-30	4362. 239
	4	CE	L36x3x5/16	1'-1 1/2	9-422-8	30. 1
	4	CE	Do.	1'-0 3/4	Do	28. 1
	1672	Rivs.	3 ϕ			602. -

Gross Wt.	23337.
Wt. Ded.	1282.
Net Wt.	22055.
Paint	89.
Tot. Wt.	22144.

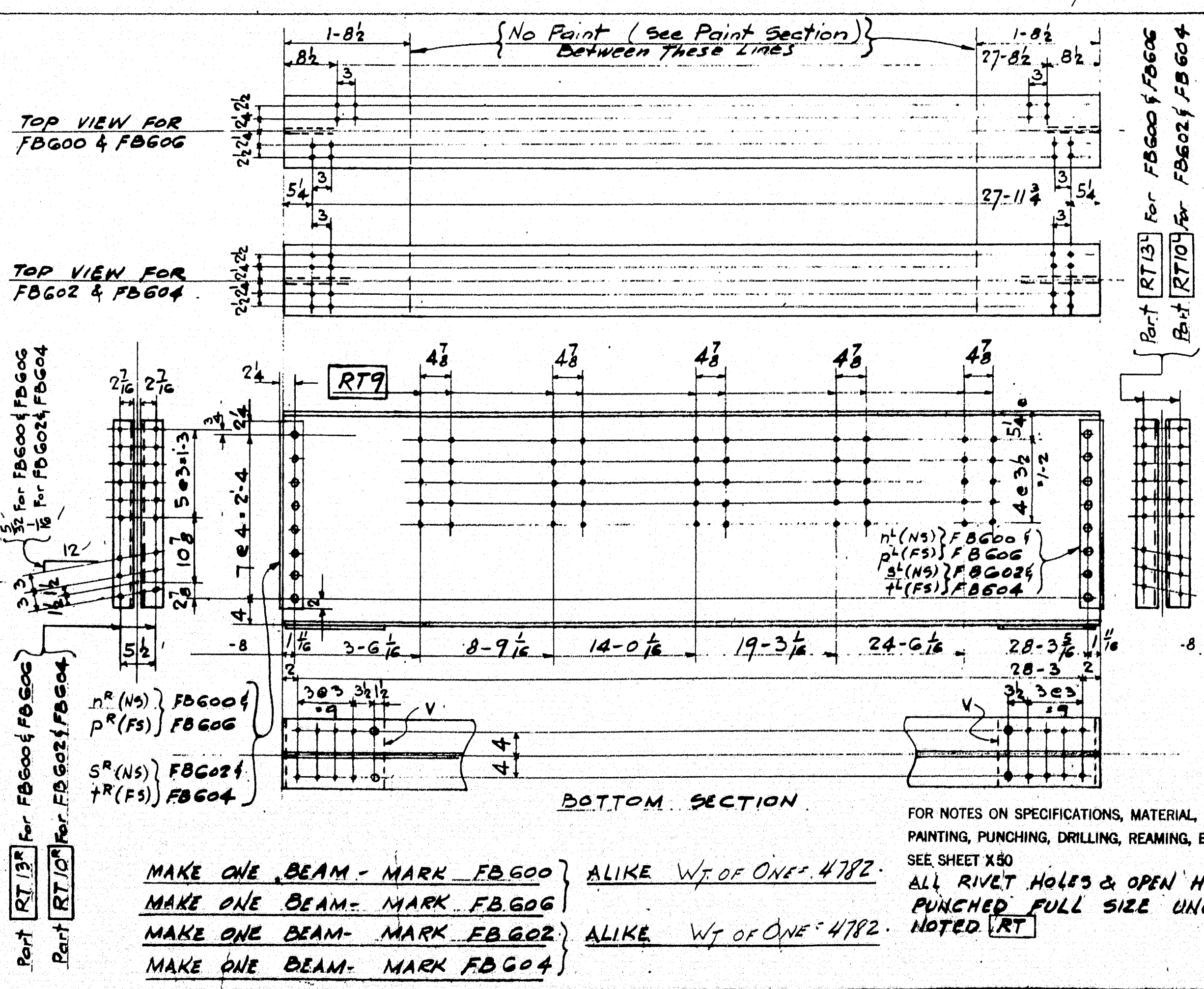
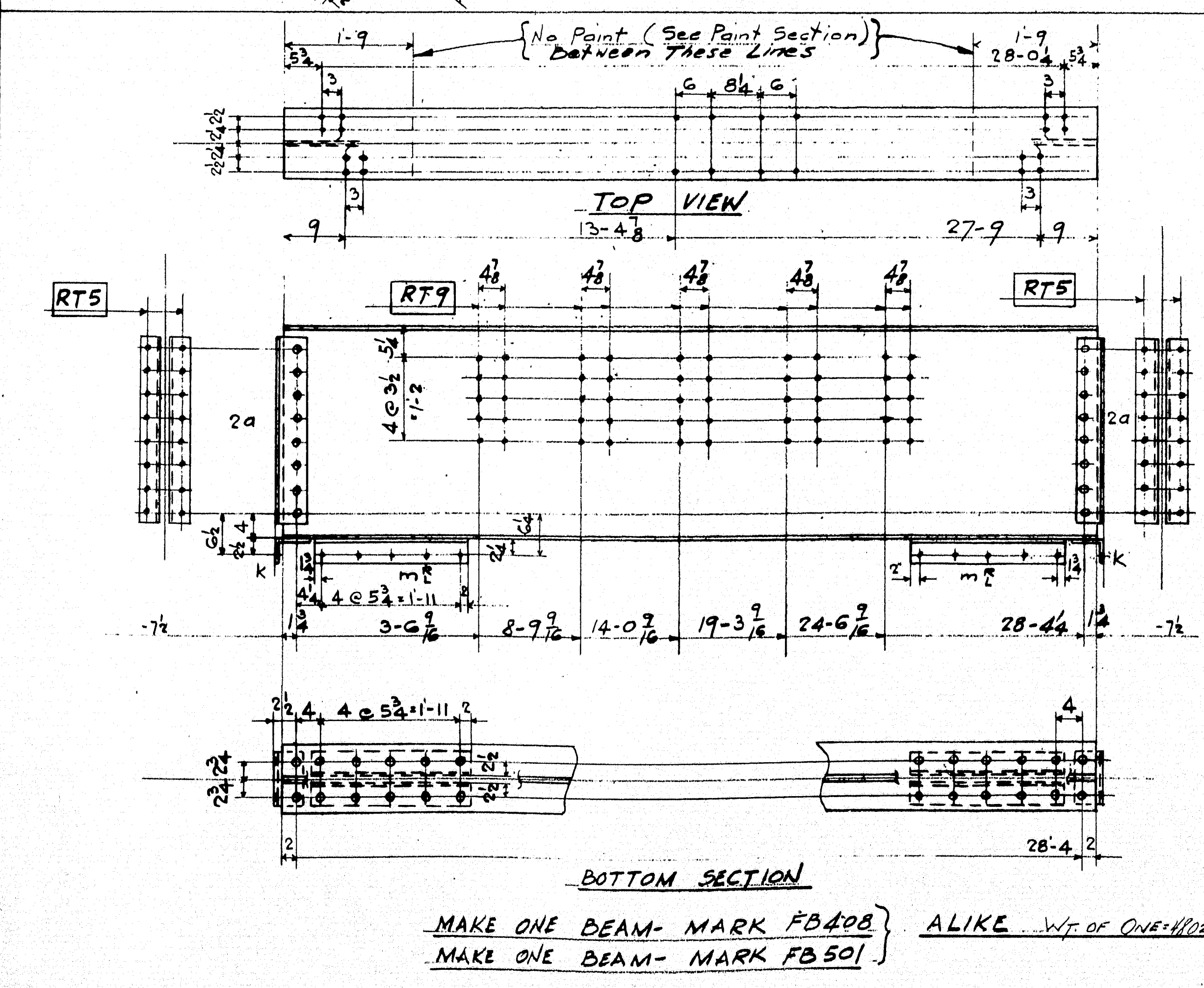
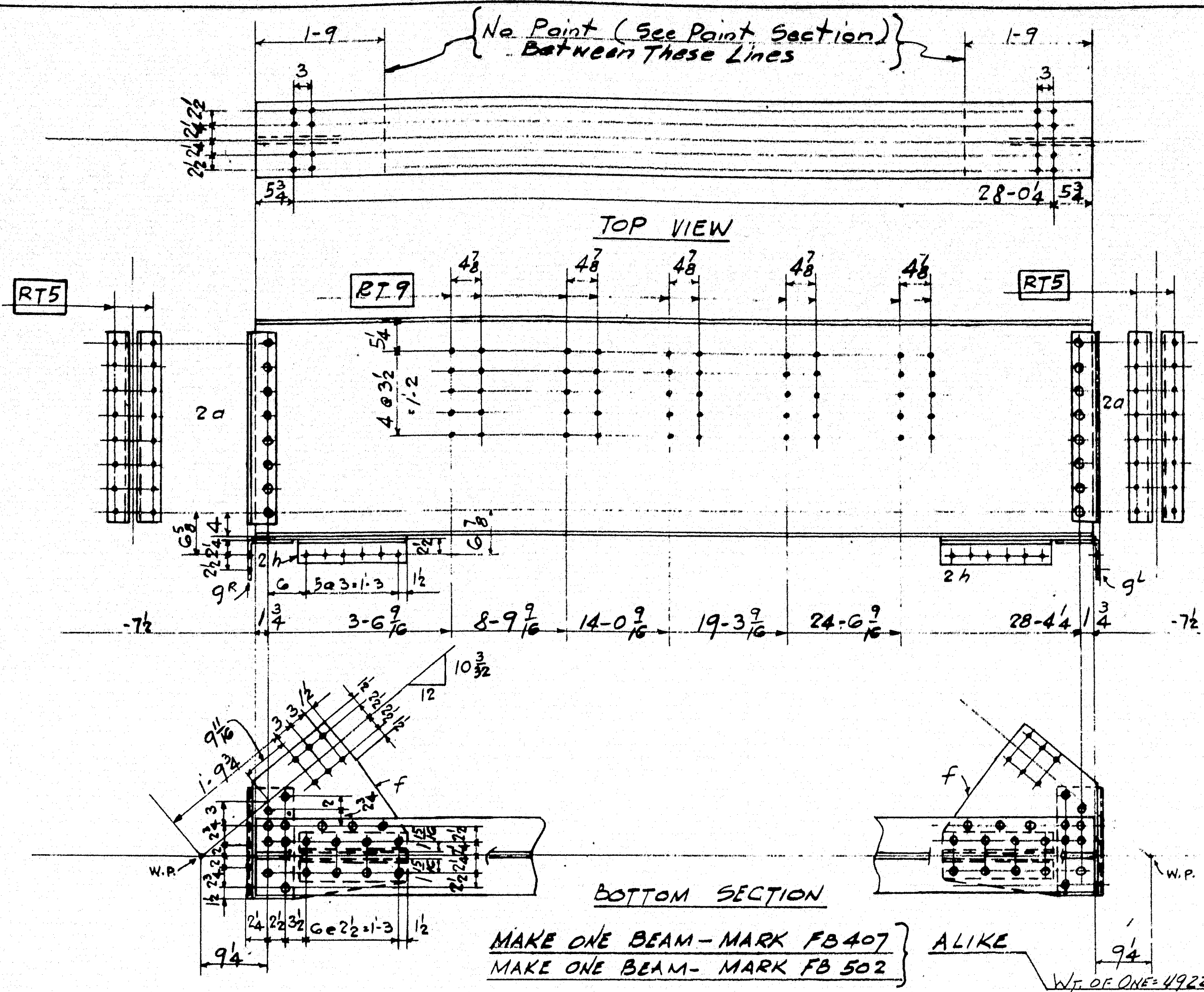
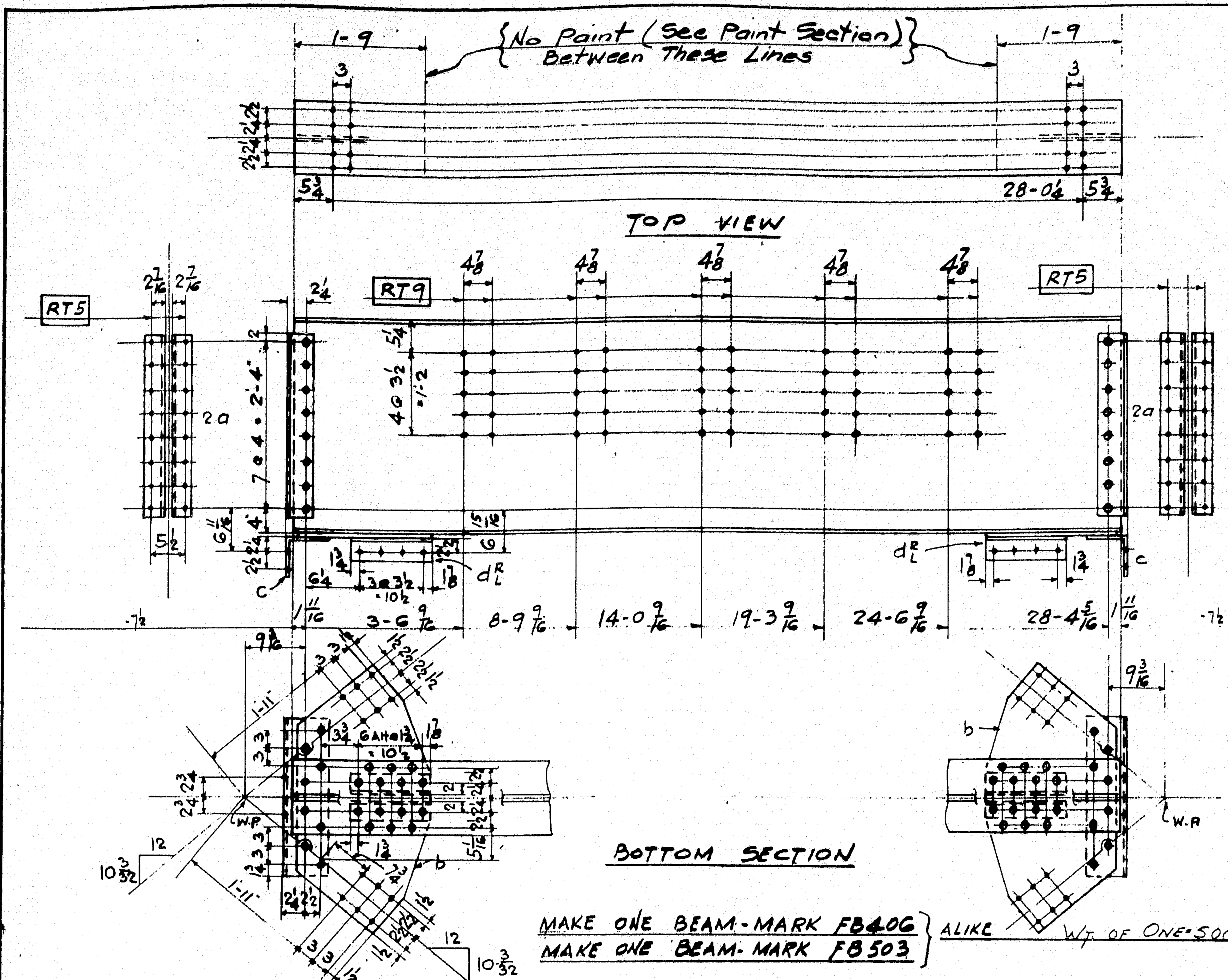
ARROWSIC BRIDGE OVER SASANOVA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

DIAGONALS $\begin{cases} U_{12} - L_{13} (\tau_1) \& (\tau_2) & U_{14} - L_{13} (\tau_1) \& (\tau_2) \\ L_{11} - U_{12} (\tau_1) \& (\tau_2) & L_{15} - U_{14} (\tau_1) \& (\tau_2) \end{cases}$

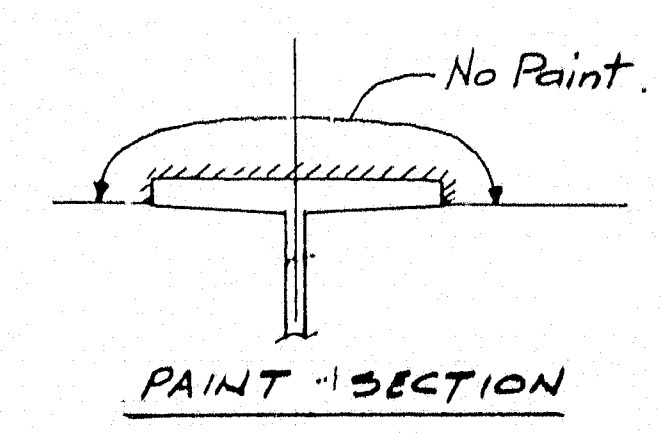
FOR NOTES ON SPECIFICATIONS, MATERIAL,
PAINTING, PUNCHING, DRILLING, REAMING, ETC.
SEE SHEET X50

ALL RIVET HOLES & OPEN HOLES
PUNCHED FULL SIZE UNLESS
NOTED [RA].

RIVETS: <u>7</u> DIAM. OPEN HOLES <u>1/8</u> DIAM.		HARRIS STRUCTURAL STEEL CO.	
UNLESS OTHERWISE NOTED		618 FOURTH AVE., N. Y.	
REVISIONS		DRAWN, MADE BY <u>JWV</u> DATE <u>12/8/49</u> CHECKED BY <u>FT</u> DATE <u>1-10-50</u> CONTRACT No. <u>6378</u> SHEET No. <u>134</u>	

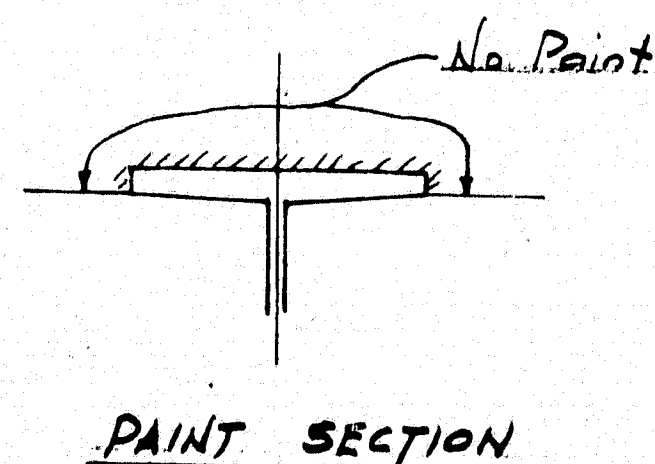
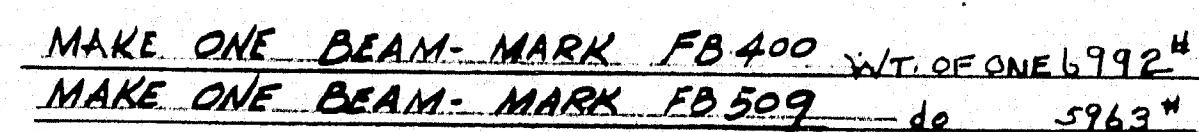
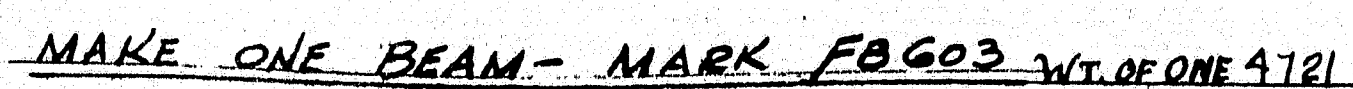
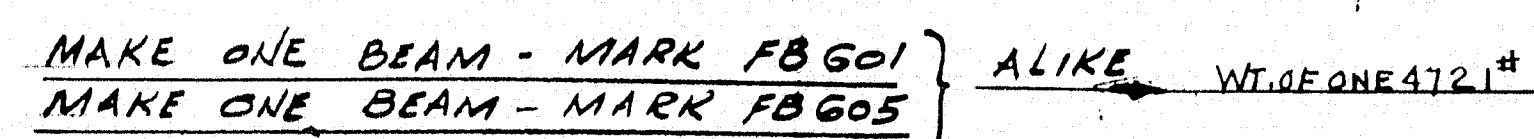


REQ'D.	NO.	MARK	NO.	PC. MK.	SIZE	LGTH.	REMARKS	ORD.	WEIGHT
	1	FB406	1		36WF160	28-6		9-418-19	4560
	1	FB503	1		36WF160	28-6		Do	4560
	8	a			L-4x3 1/2x 1/2	2-8		9-422-6	226
	4	b			#20x 1/2	3-9 3/4		113-7	465
	4	c			L-6x6x 1/2	2-1		9-422-7	143
	8	d			L-4x3 1/2x 1/2	1-2 1/2		119-9	86
	120	Rivs.			3/4"				43
	1	FB407	1		36WF160	28-6		9-418-19	4560
	1	FB502	1		36WF160	28-6		Do	4560
	8	a			L-4x3 1/2x 1/2	2-8		9-422-6	226
	4	f			#24x 1/2	2-4 1/2		9-422-5	289
	4	g			L-6x6x 1/2	1-5 1/4		9-422-7	99
	8	h			L-4x3 1/2x 1/2	1-6		119-9	109
	108	Rivs.			3/4"				39
	1	FB408	1		36WF160	28-6		9-418-19	4560
	1	FB501	1		36WF160	28-6		Do	4560
	8	a			L-4x4x 3/4	8 1/2		9-422-6	226
	4	k			L-4x3 1/2x 1/2	2-2 1/4		119-9	162
	80	Rivs.			3/4"				29
	1	FB600	1		36WF160	28-5		9-418-20	4547
	1	FB602	1		36WF160	28-5		Do	4547
	1	FB604	1		36WF160	28-5		Do	4547
	4	n			L-4x3 1/2x 1/2	2-8 1/4	FB600-FB604	9-422-6	114
	4	p			Do	2-8 1/4	Do		114
	4	s			Do	2-8 1/4	FB602-FB604		114
	4	t			Do	2-8 1/4	Do		114
	8	v			#12x 1/2	1-4		9-422-9	380
	80	Rivs.			3/4"				29
GROSS WT									48583
W.T. DED									189
NET WT									48394
PAINT									194
Total wt =									48588



FLOOR BEAMS
SPANS 3, 4 & 5
ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

RIVETS 3/4" DIAM.	OPEN HOLES 1 1/2" DIAM.	HARRIS STRUCTURAL STEEL CO.
UNLESS OTHERWISE NOTED		619 FOURTH AVE., N. Y.
REVISIONS		
1	DATE 12-8-49	DR. MADE BY LK
2	DATE 1-21-50	DR. CHECKED BY W.P.
3		CONTRACT No. C278 SHEET No. 139

[illegible]

RT12^L - RT9 - RT11 - RT14^L - RT16^L (3)

ARROWSIC BRIDGE OVER SASANOVA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

FLOOR BEAMS - SPANS 3, 4 & 5

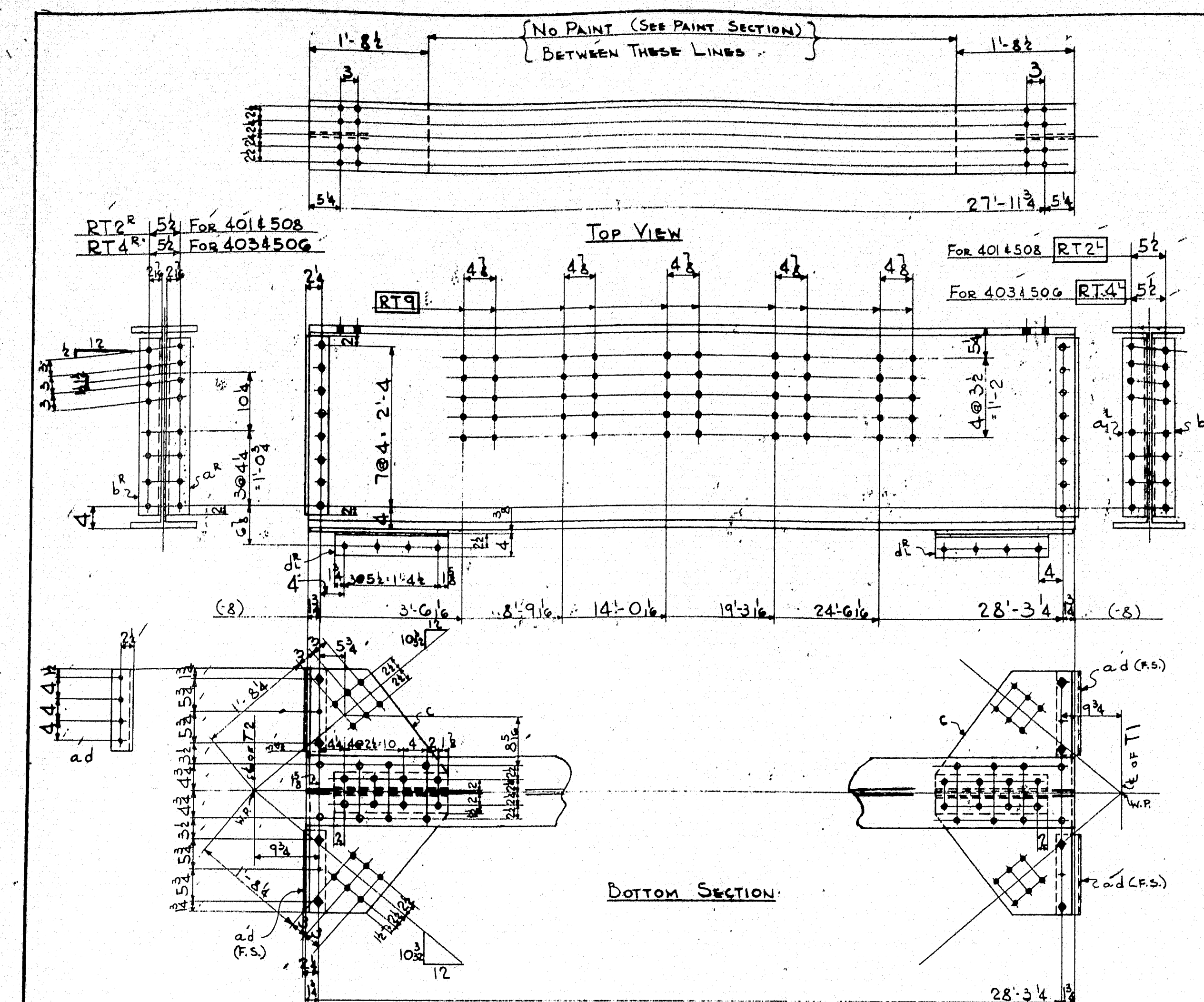
HARRIS STRUCTURAL STEEL CO.
419 FOURTH AVE., N. Y.

FOR NOTES ON SPECIFICATIONS, MATERIAL,
PAINTING, PUNCHING, DRILLING, REAMING, ETC.
SEE SHEET X50

ALL RIVET HOLES & OPEN
HOLES PUNCHED FULL SIZE
UNLESS NOTED RT

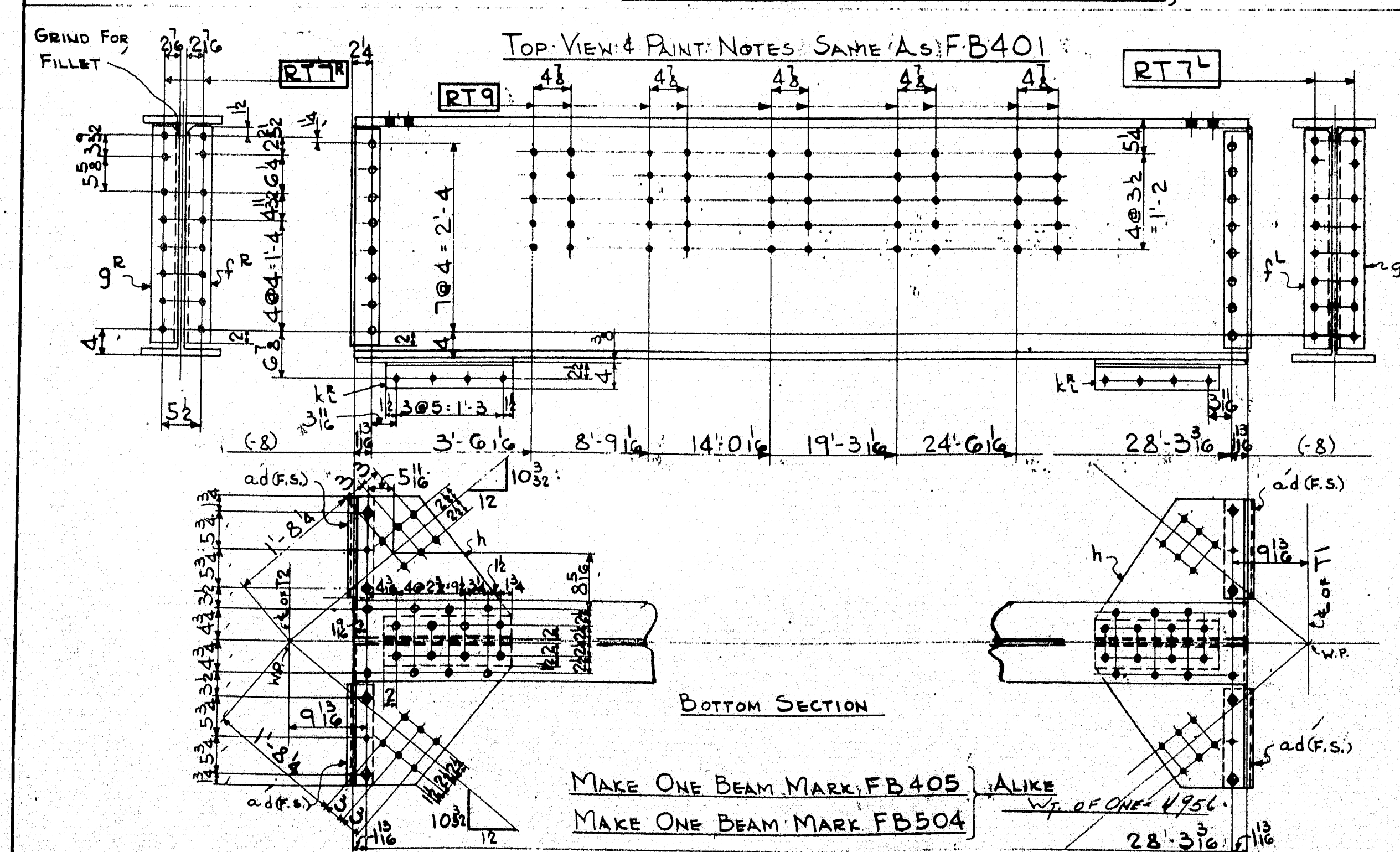
RIVETS	7	DIAM.	OPEN HOLES	15	DIAM.
UNLESS OTHERWISE NOTED					
REVISIONS					

DRAWN, MADE BY LK DATE 12-12-49
DRAW, CHECKED BY W.P. DATE 1-24-50
CONTRACT NO. 6378 SHEET No. 140



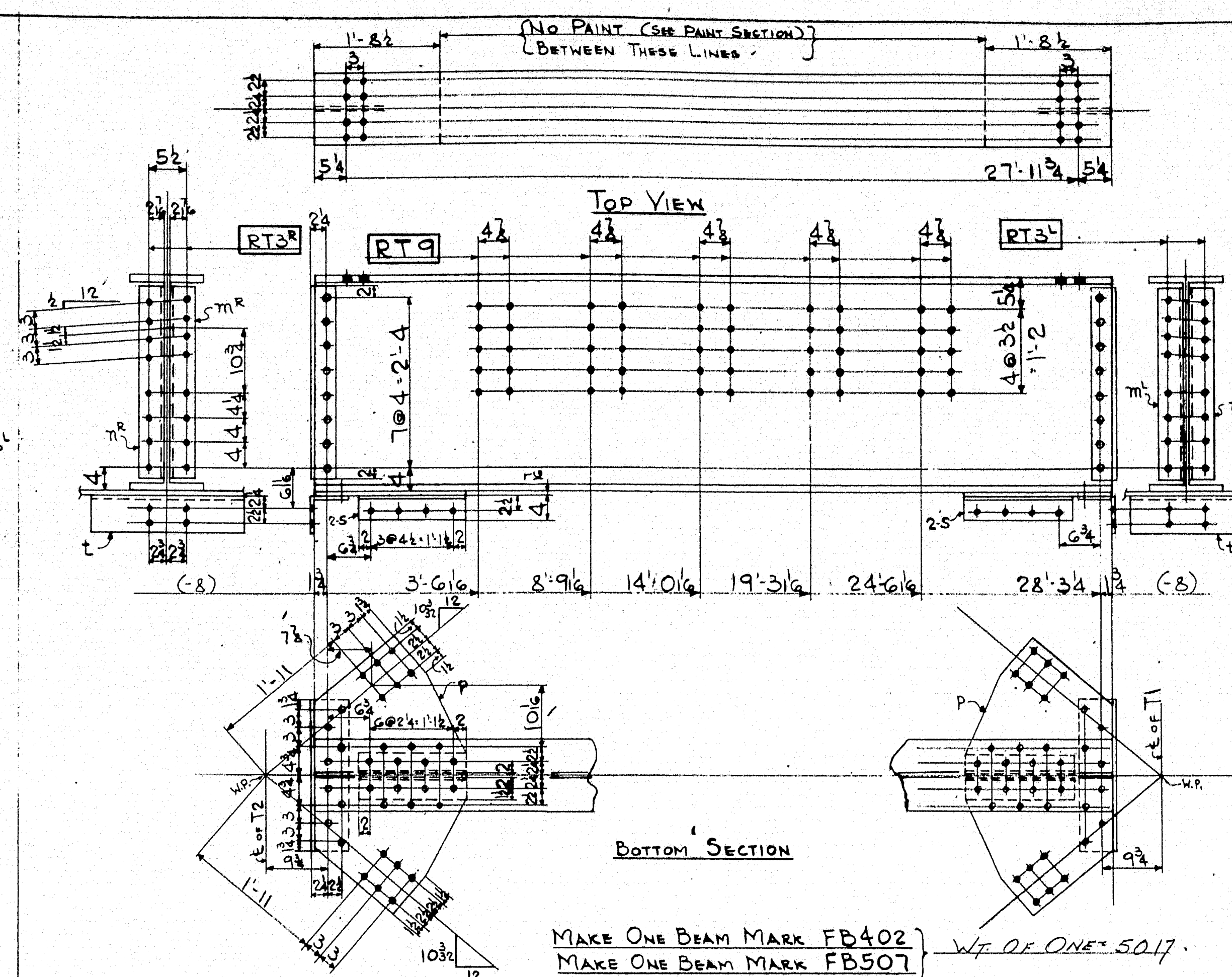
MAKE ONE BEAM MARK FB401
MAKE ONE BEAM MARK FB508
MAKE ONE BEAM MARK FB403
MAKE ONE BEAM MARK FB506

ALIKE Wt. OF ONE = 4976
ALIKE do = 4976



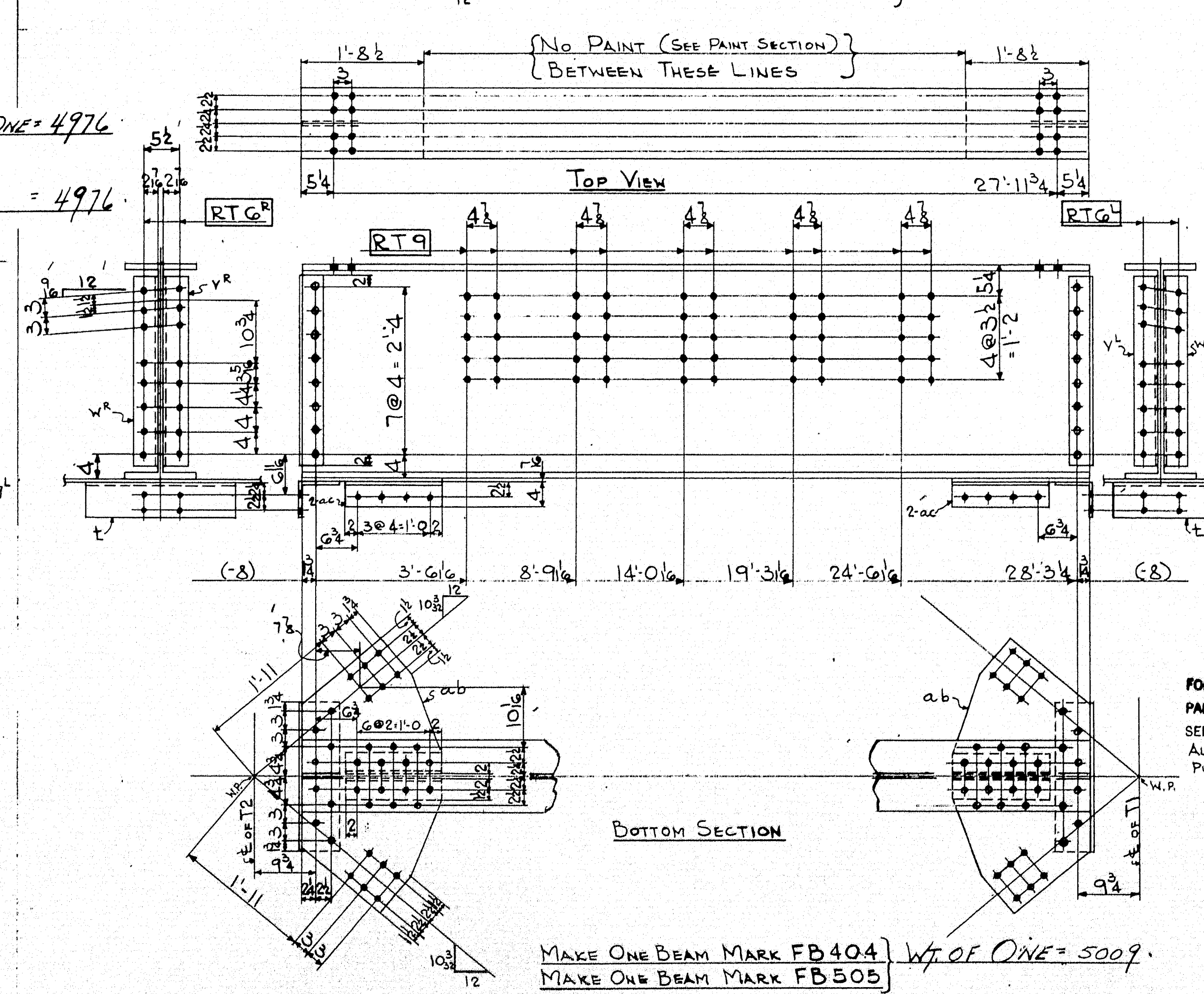
MAKE ONE BEAM MARK FB405
MAKE ONE BEAM MARK FB504

ALIKE Wt. OF ONE = 4956



MAKE ONE BEAM MARK FB402
MAKE ONE BEAM MARK FB507

Wt. OF ONE = 5017

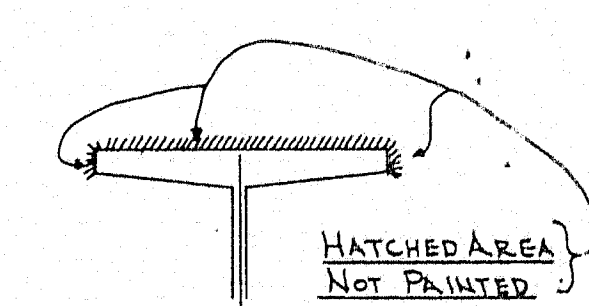


MAKE ONE BEAM MARK FB404
MAKE ONE BEAM MARK FB505

Wt. OF ONE = 5009

REQ'D	No	MARK	No	P. M.	SIZE	LENGTH	REMARKS	ORD.	WEIGHT	J2 CUTS
	1	FB401	1		3GB160	28'-5"		9-418-20	4547	
	1	FB403	1			28'-5"			4547	
	1	FB506	1			28'-5"			4547	
	1	FB508	1			28'-5"			4547	
	8	a	8		L4x3x1/2	2'-8"		9-422-6	226	
	8	b	8		Do	2'-8"		Do	226	
	8	c	8		R2x3x1/2	3'-7"		9-422-5	867	191
	16	d	16		L4x3x1/2	1'-7 1/2"		119-9	242	
	192	RIVETS	8"					Do	182	
	32	BOLTS	3"			2 1/2"			69	
									17	
	1	FB405	1		3GB160	28'-5"		9-418-20	4547	
	1	FB504	1		Do	28'-5"		Do	4547	
	8	a	8		L4x3x1/2	2'-8"		119-9	91	
	4	f	4		L4x3x1/2	2'-8 3/4"	GRIND FOR FILLER	9-422-6	116	
	4	g	4		Do	2'-8 3/4"		Do	116	
	4	h	4		R2x3x1/2	3'-7"		9-422-5	347	92
	8	k	8		L4x3x1/2	1'-6"		119-9	109	
	96	RIVETS	8"						35	
	16	BOLTS	3"			2 1/2"			8	
	1	FB402	1		3GB160	28'-5"		9-418-20	4547	
	1	FB507	1		Do	28'-5"		Do	4547	
	4	m	4		L4x3x1/2	2'-8"		9-422-6	113	
	4	n	4		Do	2'-8"		Do	113	
	4	p	4		R2x3x1/2	3'-9 3/4"		113-15	544	103
	8	s	8		L4x3x1/2	1'-5 1/2"		119-9	106	
	4	t	4		L6x6x1/2	2'-1"		9-422-7	143	
		120 RIVETS	7/8"						43	
	1	FB404	1		3GB160	28'-5"		9-418-20	4547	
	1	FB505	1		Do	28'-5"		Do	4547	
	4	y	4		L4x3x1/2	2'-8"		9-422-6	113	
	4	z	4		Do	2'-8"		Do	113	
	4	a	4		R2x3x1/2	3'-9 3/4"		113-16	510	104
	8	b	8		L4x3x1/2	1'-4"		119-9	97	
	4	c	4		L4x3x1/2	1'-4"		9-422-7	143	
		120 RIVETS	7/8"						43	

Gross wt 50252
WT DEP. 582
NET WT. 49670
PAINT 198
TOTAL WT. 49868



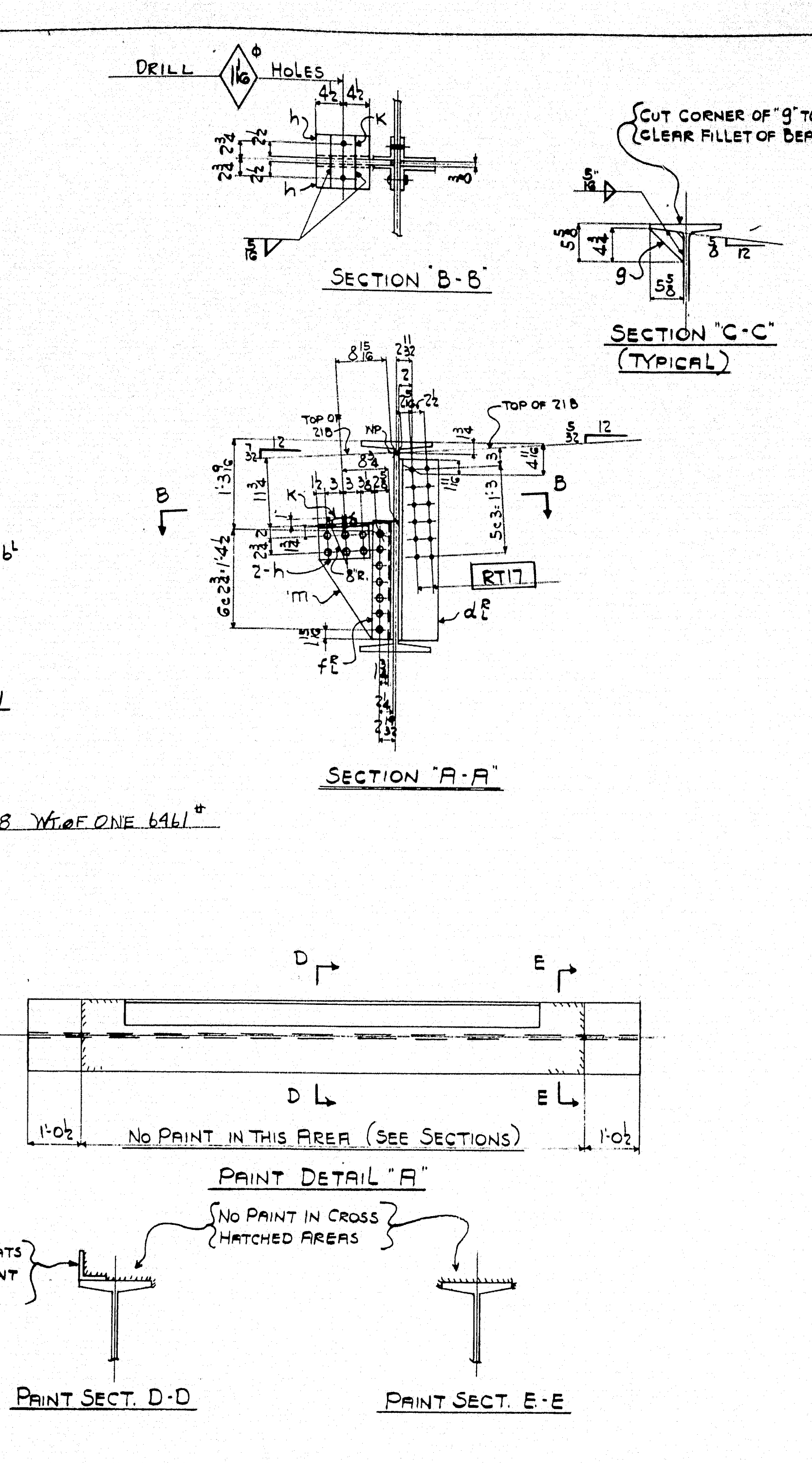
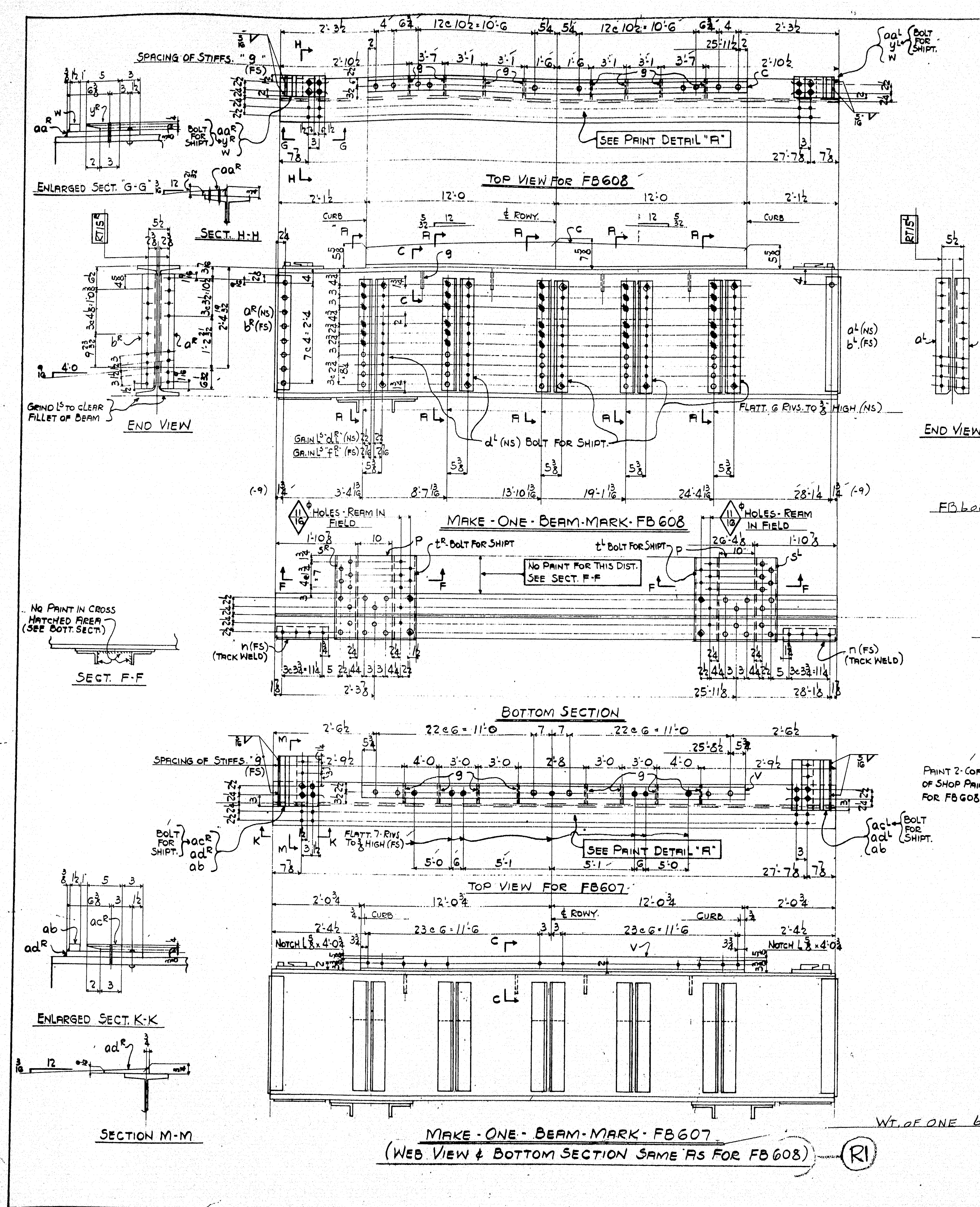
PAINT SECTION

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50
ALL RIVET HOLES & OPEN HOLES PUNCHED FULL SIZE, UNLESS NOTED RT

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

FLOOR BEAMS SPANS 3'x5'

REVISIONS		HARRIS STRUCTURAL STEEL CO. 610 FOURTH AVE., N. Y.	
NO.	DESCRIPTION	DATE	BY
1	AS SHOWN	12-18-49	W.P.
2	CHANGED BY	1-22-50	W.P.
3	CONTRACT No. 5373	SHEET No. 141	



SHIP	REQ'D	NO.	MARK	NO.	PL. MARK	SIZE	LENGTH	REMARKS	ORD.	WEIGHT
G	1	FB608	1			36B160	28'3"		9-418-21	4520
			2	a	R	1/4" x 3/4"	2'8"		9-422-6	58
			2	b	R	1/4" x 3/4"	2'8"		9-422-6	58
			1	c	R	1/4" x 3/4"	24'0"	CUT L&S 4	116-20	689
			10	d	R	1/4" x 3/4"	2'7"		9-422-6	181
			8	g	R	1/4" x 3/4"	5'3"		9-422-1	30
			10	h	R	1/4" x 3/4"	9'		116-25	107
			5	k	R	1/4" x 3/4"	8'2"		9-423-1	48
			2	m	R	1/4" x 3/4"	1'23"		9-423-6	8
			2	p	R	1/4" x 3/4"	1'11"		Do-5	110
			2	s	R	1/4" x 3/4"	1'11"			45
			2	t	R	1/4" x 3/4"	1'11"			45
			2	w	R	1/4" x 3/4"	6'		106-6	50
			195	r	R	1/4" x 3/4"	3'			70
			14	b	R	1/4" x 3/4"	2'			7
			4	b	R	1/4" x 3/4"	2'			1
			1	w	R	1/4" x 3/4"	23'0"			4
			2	y	R	1/4" x 3/4"	6'		106-6	17
			2	a	R	1/4" x 3/4"	10'8"	BEVELED	116-10	28
G	1	FB607	1			36B160	28'3"		9-418-21	4520
			2	a	R	1/4" x 3/4"	2'8"		9-422-6	58
			2	b	R	1/4" x 3/4"	2'8"		9-422-6	58
			1	v	R	1/4" x 3/4"	24'12"		116-4	446
			10	d	R	1/4" x 3/4"	2'7"		116-6	369
			10	f	R	1/4" x 3/4"	2'7"		9-422-6	181
			8	g	R	1/4" x 3/4"	5'3"		9-423-1	30
			5	k	R	1/4" x 3/4"	8'2"		116-25	48
			10	h	R	1/4" x 3/4"	9'		116-25	107
			5	m	R	1/4" x 3/4"	1'23"		9-423-1	178
			2	n	R	1/4" x 3/4"	1'11"		Do-6	8
			2	p	R	1/4" x 3/4"	1'11"		Do-5	110
			2	s	R	1/4" x 3/4"	1'11"			45
			2	t	R	1/4" x 3/4"	1'11"			45
			212	r	R	1/4" x 3/4"	3'			70
			14	b	R	1/4" x 3/4"	2'			7
			4	b	R	1/4" x 3/4"	2'			1
			1	w	R	1/4" x 3/4"	24'0"			4
			2	a	R	1/4" x 3/4"	1'03"		106-6	11
			2	a	R	1/4" x 3/4"	1'03"		Do	36
			2	a	R	1/4" x 3/4"	10'8"	BEVELED	116-10	59
								GROSS WT		12975
								WT. DED.		226
								Net WT		12749
								PAINT		51
								TOTAL WT		12800

ARROWSIC BRIDGE OVER SASANOA RIVER
 ARROWSIC - WOOLWICH
 FED. AID PROJ. No. S-154 (2)
 CONTRACT No. 2

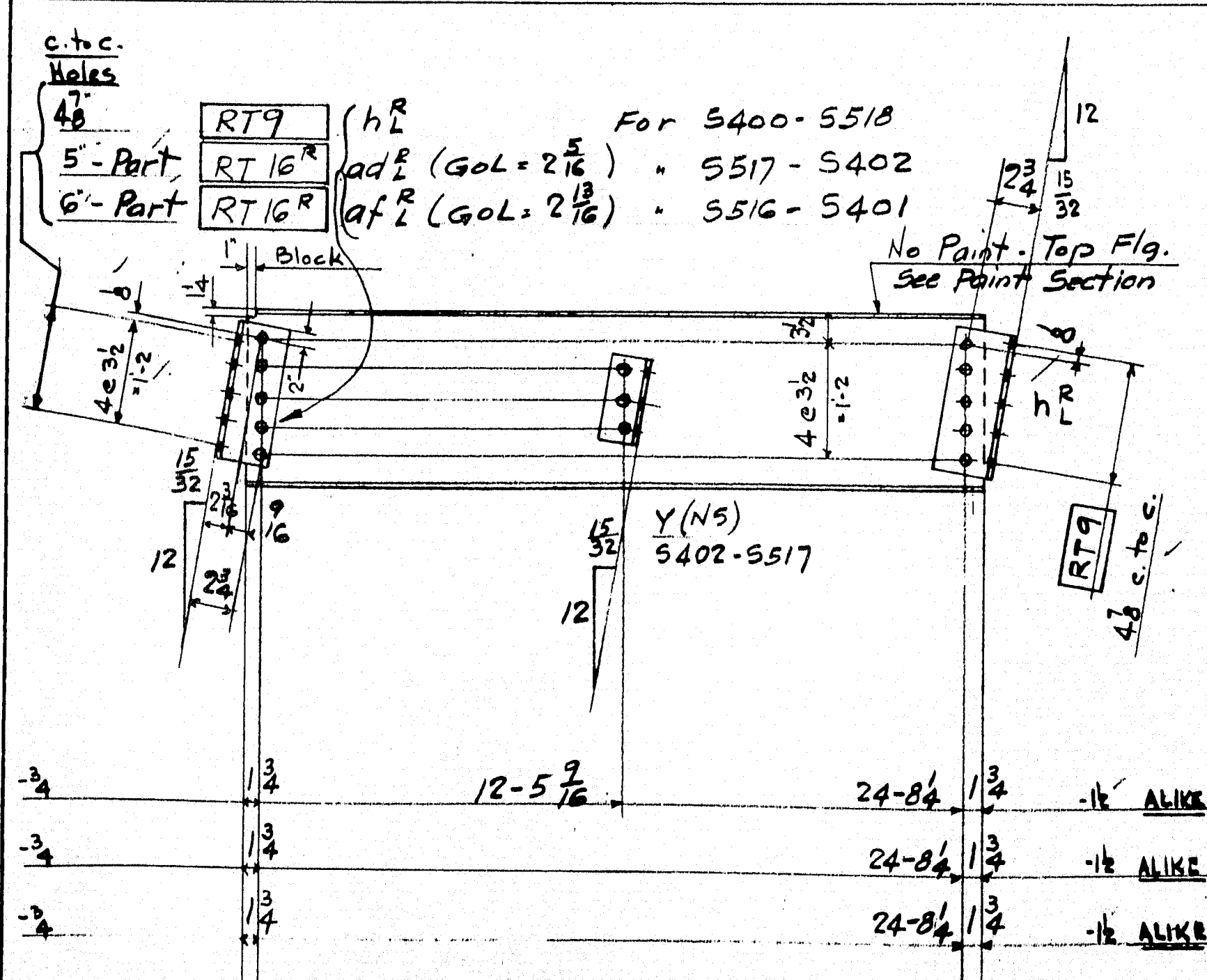
FLOORBEAMS - SPAN #4

REVISED	DATE	BY	REASON
1	12/15/49	JWP	AS NOTED

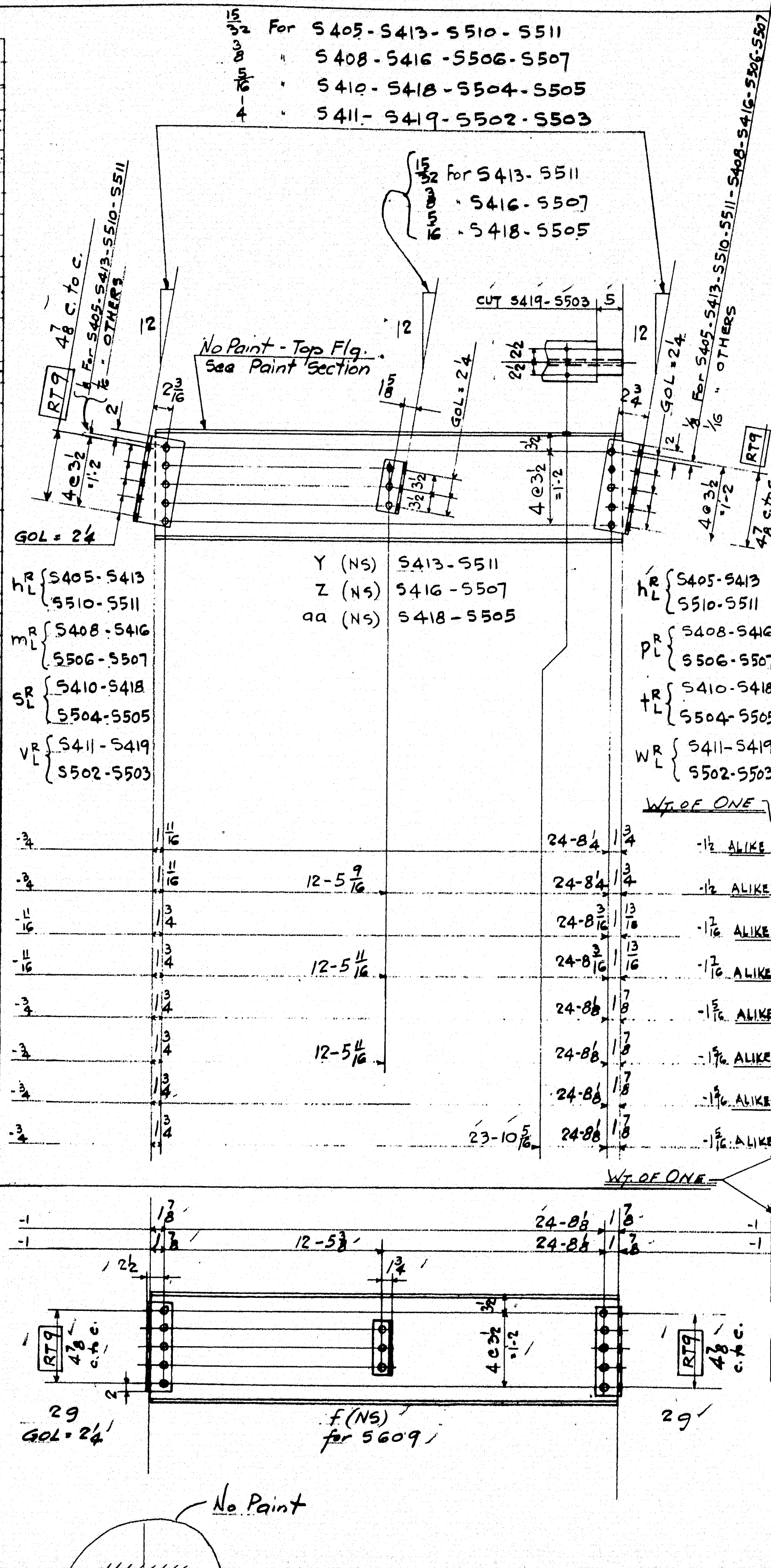
HARRIS STRUCTURAL STEEL CO.
 419 FOURTH AVE., N. Y.

CONTRACT No. 5378 SHEET No. 142

FOR NOTES ON SPECIFICATIONS, MATERIAL,
 PAINTING, PUNCHING, DRILLING, REAMING, ETC.
 SEE SHEET X-80
 ALL RIVET HOLES & OPEN HOLES
 PUNCHED, FULL SIZE UNLESS NOTED.
 [RT]



Cups vs	REQ'D.		MADE UP OF						
	NO	MARK	NO	P.C.MK.	SIZE	LGTH.	REMARKS	ORD.	WEIGHT
-			40	a ^R	1-4x3x7/8	1-G		9-422-6	636
-			40	b ^R	Dø	1-G		Dø	636
-			4	f	1-3x2x5/8	10	(SGOG SGO7	9-422-1	22
-			212	Rivs.	B+				76
-	8	SGO2	8		21WF62	24-10		9-418-BI	12316
-	2	SGOG	2						3079
-	8	SGO3	8						12316
-	2	SGO7	2		21WF62	24-10			3079
			28	H ^R			(4) S400-S518; (8) Others	9-422-6	445
			2	Y			S402-S517	9-422-1	11
			4	ad ^R	1-4x4x7/8	1-G	S517-S402	105-24	68
			8	af ^R	Dø	1-G	S516-S401	Dø	136
			106	Rivs.	B+				38
1	1	S402	1		21WF62	24-10		9-418-BI	1539
1	1	S517	1						1539
3	2	S400	2						3079
3	2	S518	2						3079
6	2	S401	2						3079
3	2	S516	2		21 WF62	24-10			3079
									48252

[illegible]

Gross Wt. 1768.97
W+ Deg. 20
Net Wt. 1768.57
Print 107.
Tot. Wt.: 1775.64

ARRWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

L
B-
w.

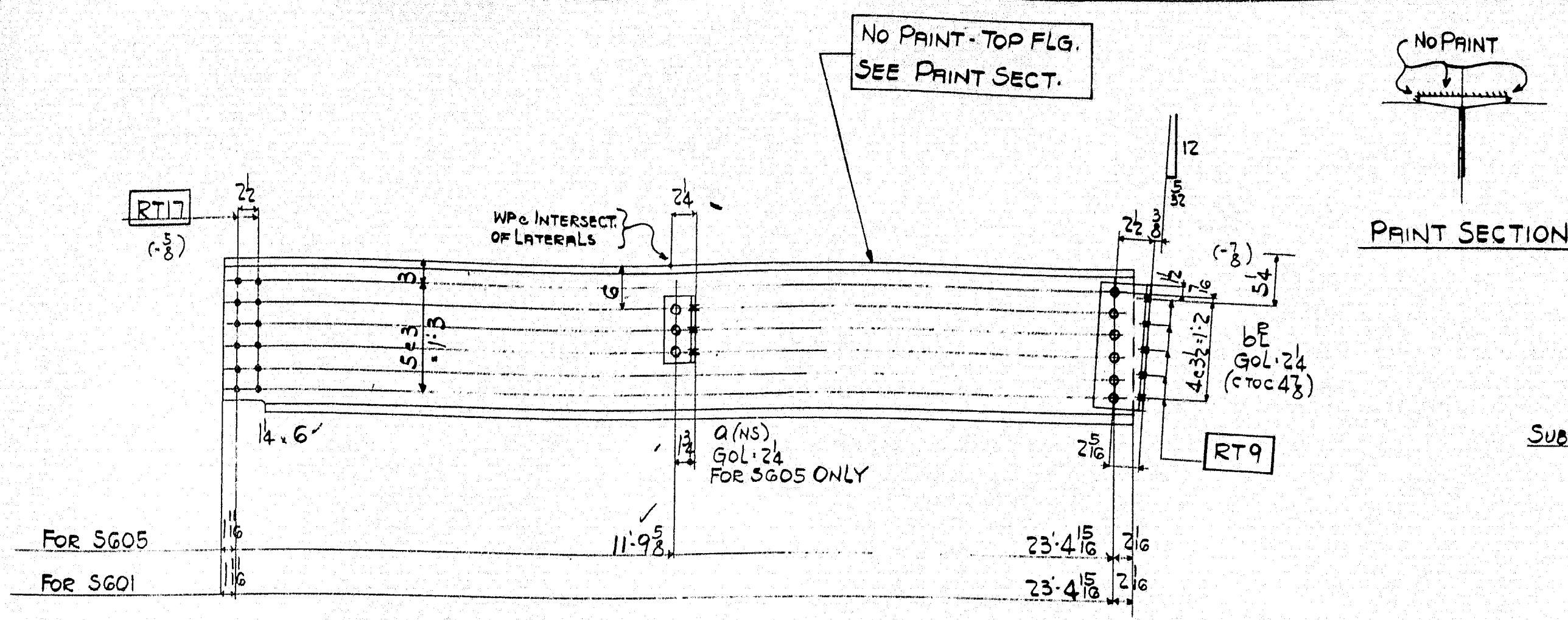
STRINGERS - SPANS 3, 4 & 5

HARRIS STRUCTURAL STEEL CO.
412 FOURTH AVE., N. Y.

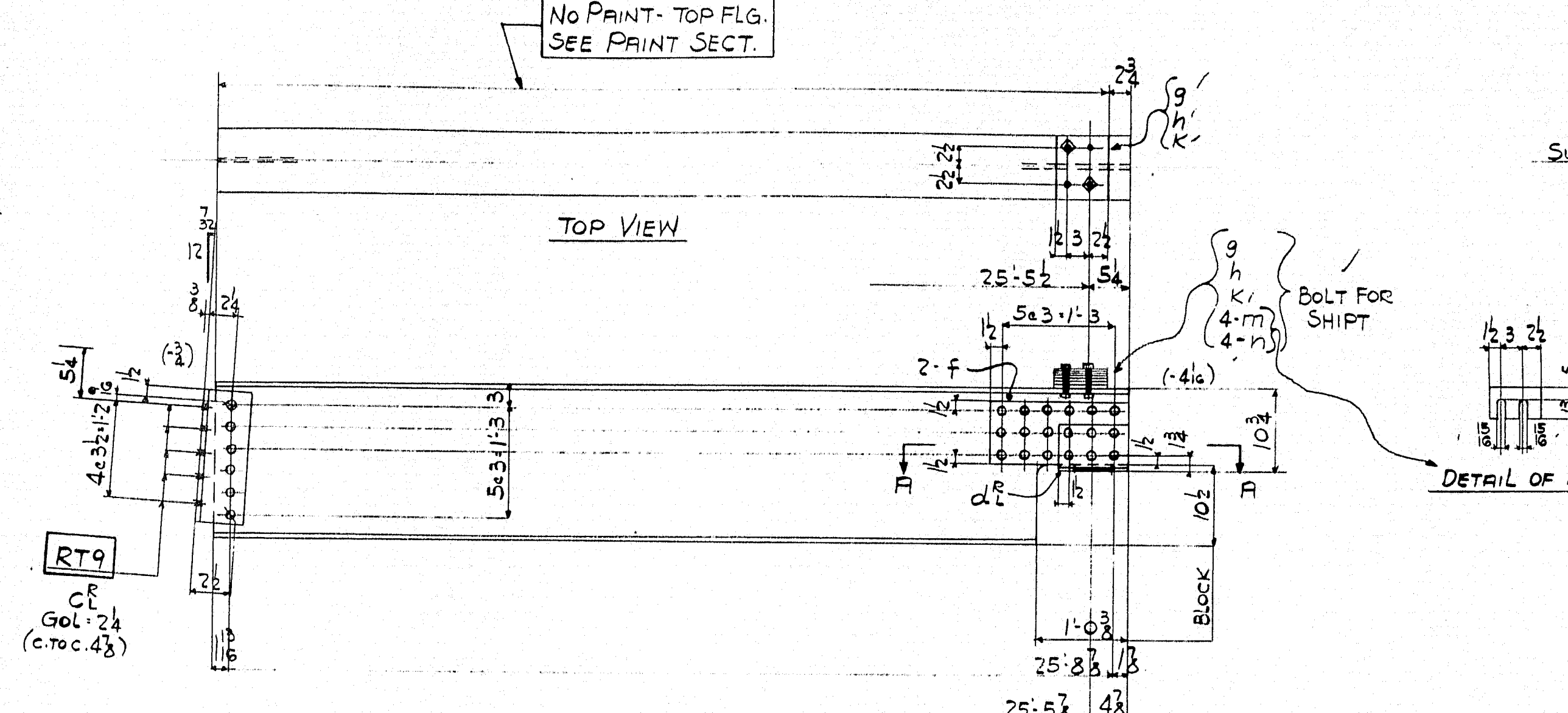
DRAW. MADE BY LK DATE 12-16-49
DRAW. CHECKED BY W.P. DATE 1-30-50
CONTRACT No. C378 SHEET No. 143

FOR NOTES ON SPECIFICATIONS, MATERIAL,
PAINTING, PUNCHING, DRILLING, REAMING, ETC.
SEE SHEET X-50

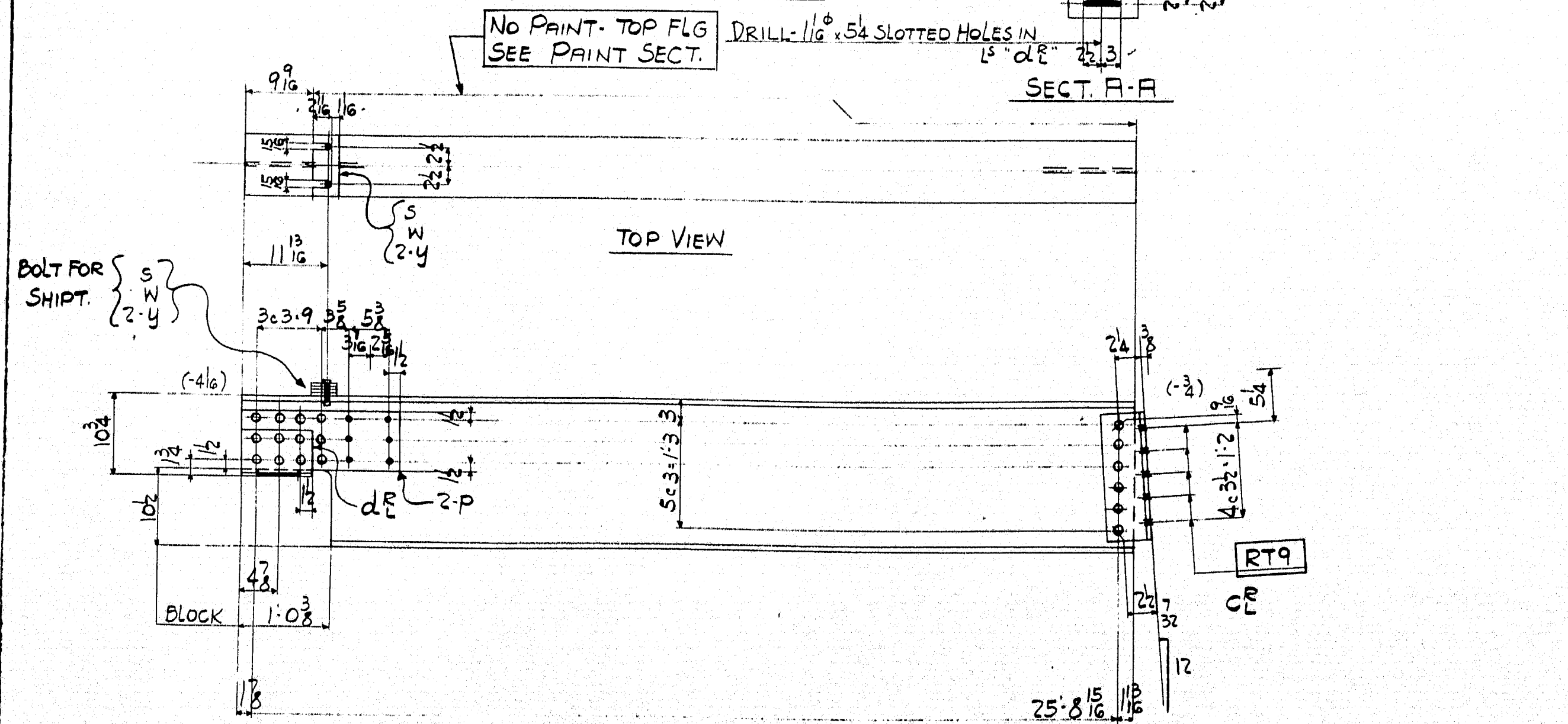
ALL RIVET HOLES & OPEN
HOLES PUNCHED FULL SIZE
UNLESS NOTED RT



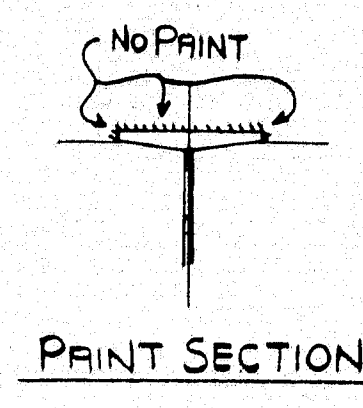
MAKE - 2 - STRINGERS - MARK - SG05 WT. OF ONE 1502#
 " - 8 - STRINGERS - " - SG01 do 1493#



WT. OF ONE 1721#
 MAKE - 5 - STRINGERS - MARK - S412

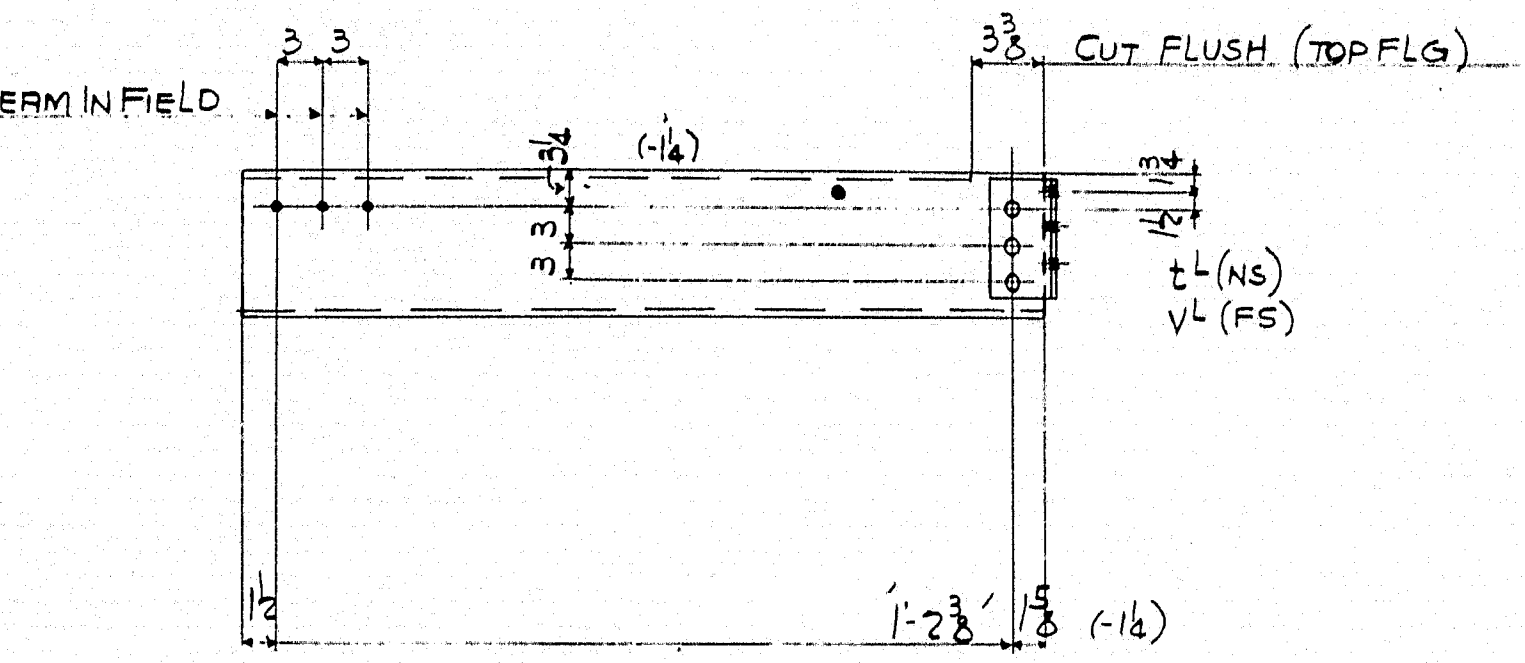
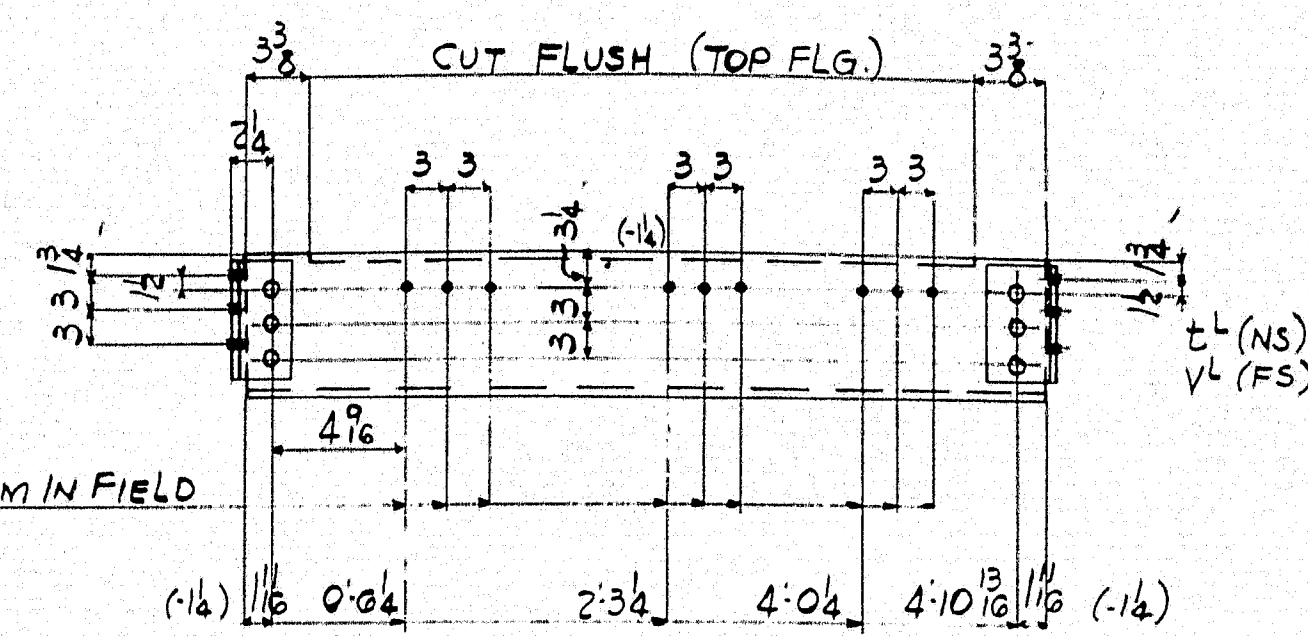


MAKE - 5 - STRINGERS - MARK - S500 WT. OF ONE 1697#



t^R(NS) GOL. 2 1/8"
 v^R(FS) GOL. 2 1/8"

SUBPUNCH HOLES 1 1/8" & REAM IN FIELD



SHIP NO.	REQ'D		MADE UP OF						CUTS
	NO	MARK	NO	PMK	SIZE	LENGTH	REMARKS	ORD	
6	2	SG05	2		21B62	23'-7"		9-418-52	17
6	8	SG01	8		21B62	23'-7"		Do	70
			2	a	L4.32x1/8	9		9-422-1	10
			20	b ^R	L4.32x1/8	1'-6"		9-422-6	318
			66	RVS.	3/8"				24
4	5	S412	5		21B62	25'-10 3/8"		9-418-80	145
			10	c ^R	L4.32x1/8	1'-6"		9-422-6	159
			10	d ^R	L6.4x1/8	9 3/8"		119-6	112
			10	f	R.9x1/8	1'-6 3/8"		113-23	205
			5	g	R.7x3/4	84		119-15	62
			5	h	7x2	84		9-422-1	41
			5	k	7x3/8	84		Do-5	31
			20	m	7x3/8	4 3/8"	Do	119-28	20
			20	n	7x1/8	4 3/8"	Do		10
			120	RVS.	3/8"				43
			10	BOLTS	3/8"	22			5
5	5	S500	5		21B62	25'-10 3/8"		9-418-80	145
			10	c ^R	L4.32x1/8	1'-6"		9-422-6	159
			10	d ^R	L6.4x1/8	9 3/8"		119-6	112
			10	p	R.9x1/8	1'-6 3/8"		113-23	205
			5	s	R.3 3/8x1/2	84		119-27	6
			5	w	R.3 3/8x1/2	84			6
			10	y	R.3 3/8x1/2	84			6
			90	RVS.	3/8"				32
			10	BOLTS	3/8"	22			5
5	4	M500	4		12C25	5'-0 1/2"		9-418-33	504
			8	t ^R	L4.32x3/8	10 1/2"		119-9	64
			8	v ^R	Do.	10 1/2"		Do	64
			24	RVS.	3/8"				9
AS SHOWN	5	1	M501	1	12C25	1'-4"		9-418-74	33
OPP. HAND	5	1	M502	1	12C25	1'-4"		Do	33
			2	t ^R				119-9	16
			2	v ^R				Do	16
			6	RVS.	3/8"				8

RT9-17

Gross Wt. 33028#
 Net Wt. 32641#
 Paint 131#
 Tot. Wt. 32772#

ARROWSIC BRIDGE OVER SASANOA RIVER
 ARROWSIC - WOOLWICH
 FED. AID PROJ. No. S-154 (2)
 CONTRACT No. 2

FOR NOTES ON SPECIFICATIONS, MATERIAL,
 PAINTING, PUNCHING, DRILLING, REAMING, ETC.
 SEE SHEET X80
 ALL RIVET HOLES & OPEN HOLES
 PUNCHED FULL SIZE UNLESS NOTED.

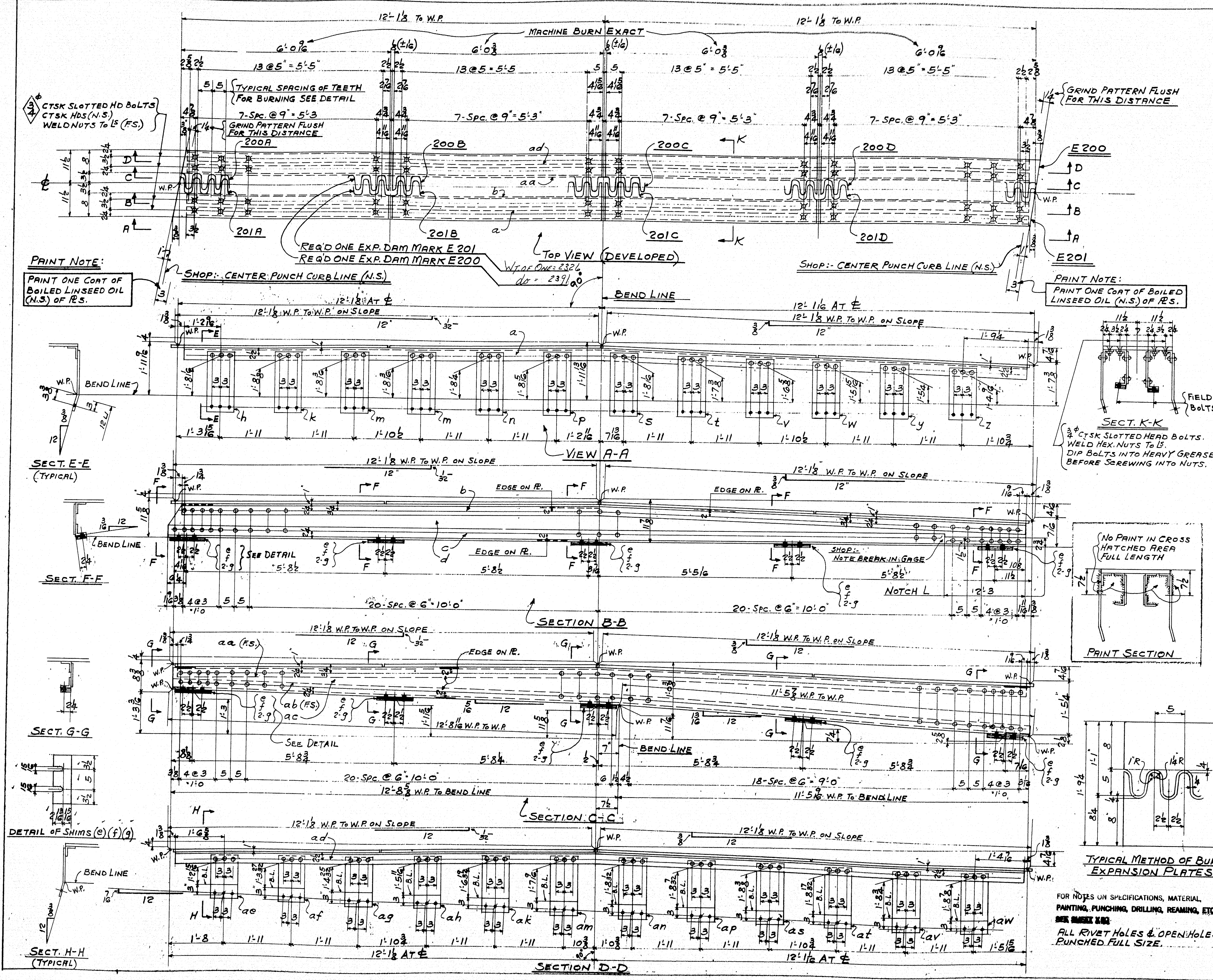
STINGERS & DIAPHS. - SPAN 4

RIVETS 7/8" DIAM. OPEN HOLES 1 1/8" DIAM. UNLESS OTHERWISE NOTED

REVISIONS

HARRIS STRUCTURAL STEEL CO.
 410 FORTH AVE., N. Y.

DATE 12/23/49
 DRAWN BY J.W.V.
 CHECKED BY W.K.
 CONTRACT No. S378 SHEET No. 144



SHIPMENT	REQ'D	MADE UP OF						REMARK	ORDER WEIGHT	
		No.	P. MK	SIZE	LGTH					
1 E 201		1	a	L 4x3 1/2	23 1/2	BENT	9-422-9	235		
		1	b	L 3 1/2 x 3 1/2	23 1/2	BENT	12-24	235		
		1	c	Do.	24 1/2		Do		237	
		1	d	R 10 1/8 x 3 1/2	24 1/2		9-423-5	320		
		5	e	SHIMS 3/4	1 1/2			16		
		5	f	"	1 1/2		11-9-27	8		
		10	g	"	1 1/2			8		
		1	h	R 9 x 3 1/2	2 1/2	BENT	12-19	25		
		1	k		2 1/2			25		
		2	m		2 1/2			51		
		1	n		2 1/2			26		
		1	s		2 1/2			26		
		1	P		2 1/2			25		
		1	t		2 1/2			25		
		1	v		2 1/2			24		
		1	w		2 1/2			23		
		1	y		1 1/2			23		
		1	z	Do.	1 1/2	Do.		23		
		1	201A	R 13 1/4	23 1/2	CUT FROM 24 1/2" WITH 200A	32 1/2 30	275		
		1	201B		24 1/2	200B		273		
1	201C		24 1/2	200C		273				
1	201D	Do.	24 1/2	Do. 200D		274				
G4	CTSK SLOTTED HD BOLTS	3/4"	2 1/2	HEX. NUTS	12-3-2	8				
		143 RIVS.	7/8"			51				
		10 BOLTS	7/8"	2 1/2		5				
		1 WELD	84	11'-0"		1				
1 E 200		1	aa	L 3 1/2 x 3 1/2	23 1/2	BENT	12-24	235		
		1	ab	Do.	24 1/2	BENT.	Do.	237		
		1	ac	R 20 1/8 x 3 1/2	24 1/2		9-423-5	620		
		1	ad	L 4 x 3 1/2	23 1/2	BENT.	9-422-9	285		
		1	ae	R 9 x 3 1/2	1-9	BENT	12-19	20		
		1	af		1-10			21		
		1	ag		1-10 3/4			22		
		1	ah		1-11 1/2			23		
		1	ak		2-0 3/4			24		
		1	am		2-1 1/2			25		
		1	an		2-2 1/4			25		
		1	ap		2-2 1/2			25		
		1	as		2-2 1/2			25		
		1	at		2-2 3/4			26		
		1	av		2-3			26		
		1	aw	Do.	2-3	Do.		26		
		5	e					16		
		5	f				11-9-27	8		
		10	g					8		
		1	200A	R 13 1/4	23 1/2	CUT FROM 24 1/2" WITH 201A	32 1/2 30	275		
1	200B		24 1/2	201B		273				
1	200C		24 1/2	201C		273				
1	200D	Do.	24 1/2	Do. 201D		275				
G4	CTSK SLOTTED HD BOLTS	3/4"	2 1/2	HEX. NUTS	12-3-2	8				
		142 RIVS.	7/8"			51				
		10 BOLTS	7/8"	2 1/2		5				
		1 WELD	84	11'-0"		1				
Gross Wt.								5420		
Wt. Del.								722		
Net Wt.								4698		
Paint								19		
Tot. Wt.								4717		

ARROWSIC BRIDGE OVER SASANOA RIVER

ARROWSIC - WOOLWICH

FED. AID PROJ. No. S-154 (2)

CONTRACT No. 2

EXPANSION DAM AT PIER #1

RIVETS 7/8 DIAM. OPEN HOLES 1/5 DIAM. UNLESS OTHERWISE NOTED

REVISIONS

HARRIS STRUCTURAL STEEL CO.

419 FOURTH AVE., N. Y.

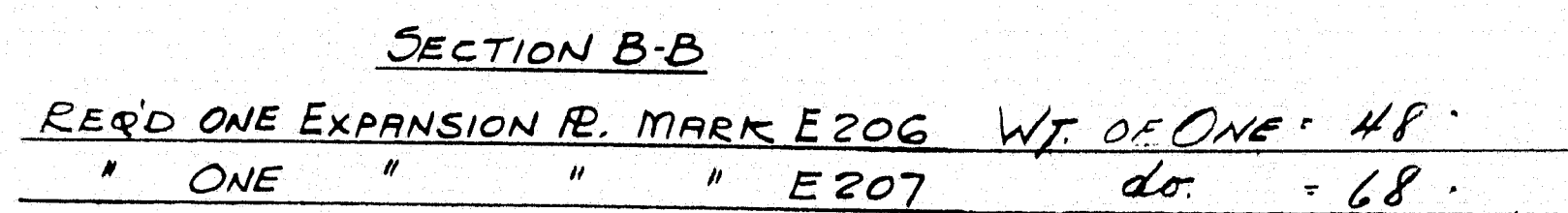
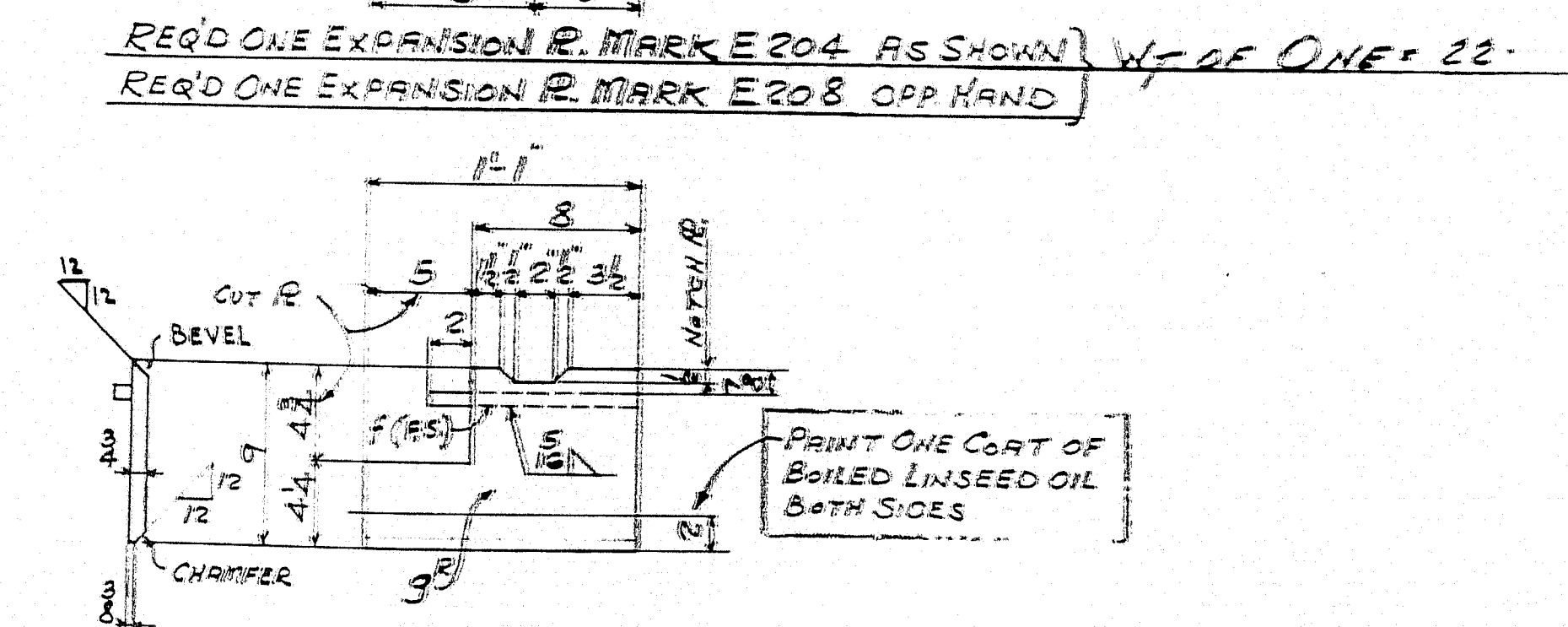
DRAW. MADE BY FT DATE 1/3/50

DRAW. CHECKED BY HLW DATE 1/24/50

CONTRACT No. C 378 SHEET No. 147

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2
EXPANSION DAM AT PIER #1
HARRIS STRUCTURAL STEEL CO.
419 FOURTH AVE., N. Y.

REVISIONS		DATE
1	AS NOTED	1/3/50
2	FOR PIER #1	1/24/50
3	FOR PIER #2	1/24/50



ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

EXPANSION DAMS AT PIER #1

HARRIS STRUCTURAL STEEL CO.
419 FOURTH AVE., N. Y.

DRAW. MADE BY FT DATE 1-5-50
 DRAW. CHECKED BY HLV DATE 1/24/50
 CONTRACT NO. C378 SHEET NO. 148

The diagram shows a cross-section of a beam with a total width of 1.3m. The top reinforcement consists of 5 bars, with 3 bars labeled as 20mm diameter (20 ϕ) and 2 bars labeled as 16mm diameter (16 ϕ). The bottom reinforcement consists of 3 bars, with 2 bars labeled as 20mm diameter (20 ϕ) and 1 bar labeled as 16mm diameter (16 ϕ). The beam is supported by a base, and the dimensions are given in meters (m).

Hand-drawn technical drawing of a beam-to-column connection. The drawing shows a top view of a beam with a total length of 17'-0 1/2". The beam is supported by a column. The connection details include:

- End plate: 17'-0 1/2" long, 4" thick, with 1/4" washers.
- Beam: 15'-6 3/16" long, 9 1/2" high, with 1/4" washers.
- Column: 12" wide, 12" high, with 1/4" washers.
- Dimensions: 7'-0 3/4" from the left end to the first washer, 10'-0" between washers, 11'-5" from the last washer to the right end, and 7'-0 3/4" from the right end to the last washer.
- Notes: "Cut 9.5" L" and "1/4" Washer" are indicated.

[illegible]

ARROWSIC BRIDGE OVER SASANOVA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

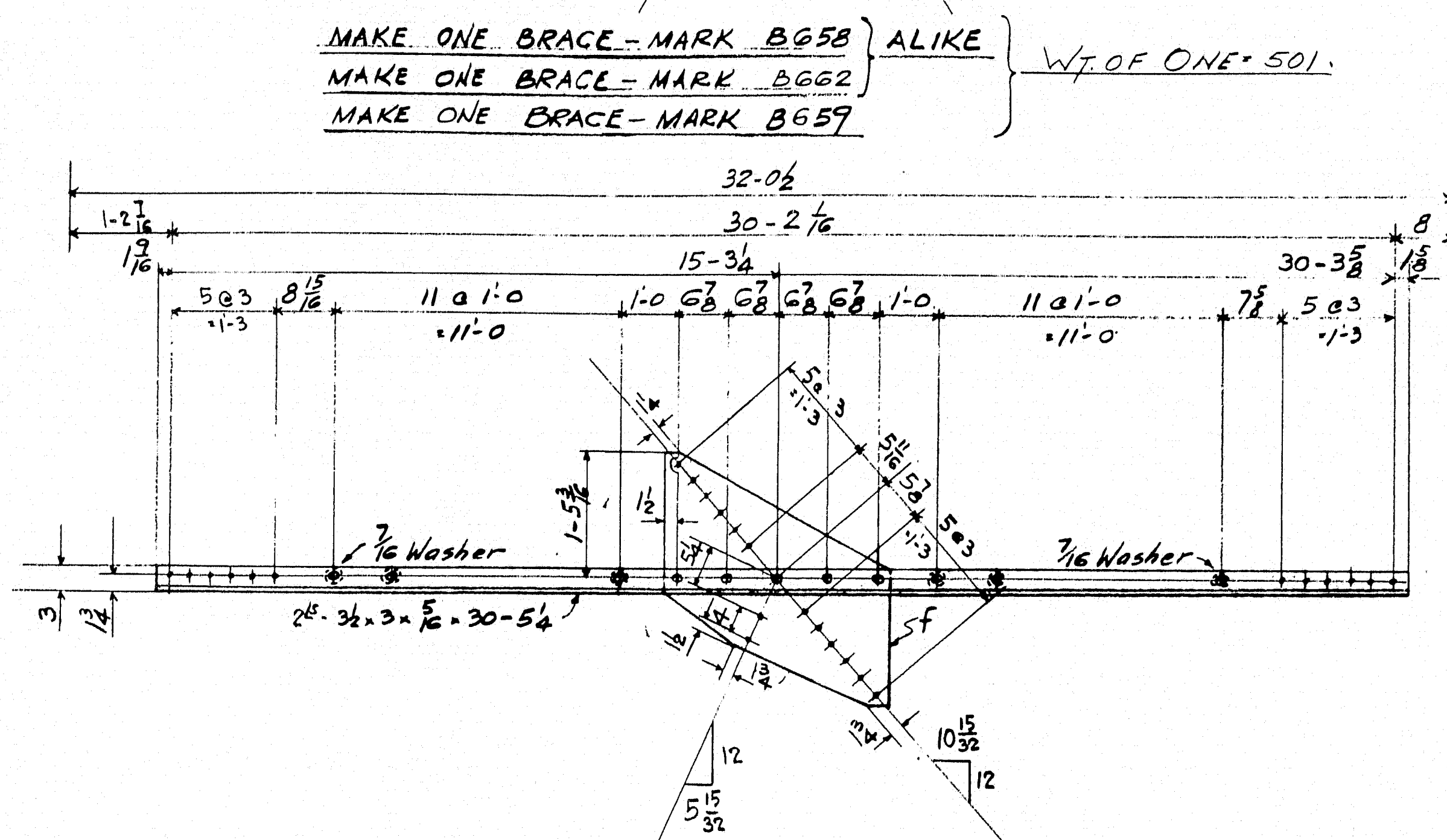
SWAY BRACING

HARRIS STRUCTURAL STEEL CO.
419 FOURTH AVE., N. Y.

FOR NOTES ON SPECIFICATIONS, MATERIAL,
PAINTING, PUNCHING, DRILLING, REAMING, ETC.,
SEE SHEET X50

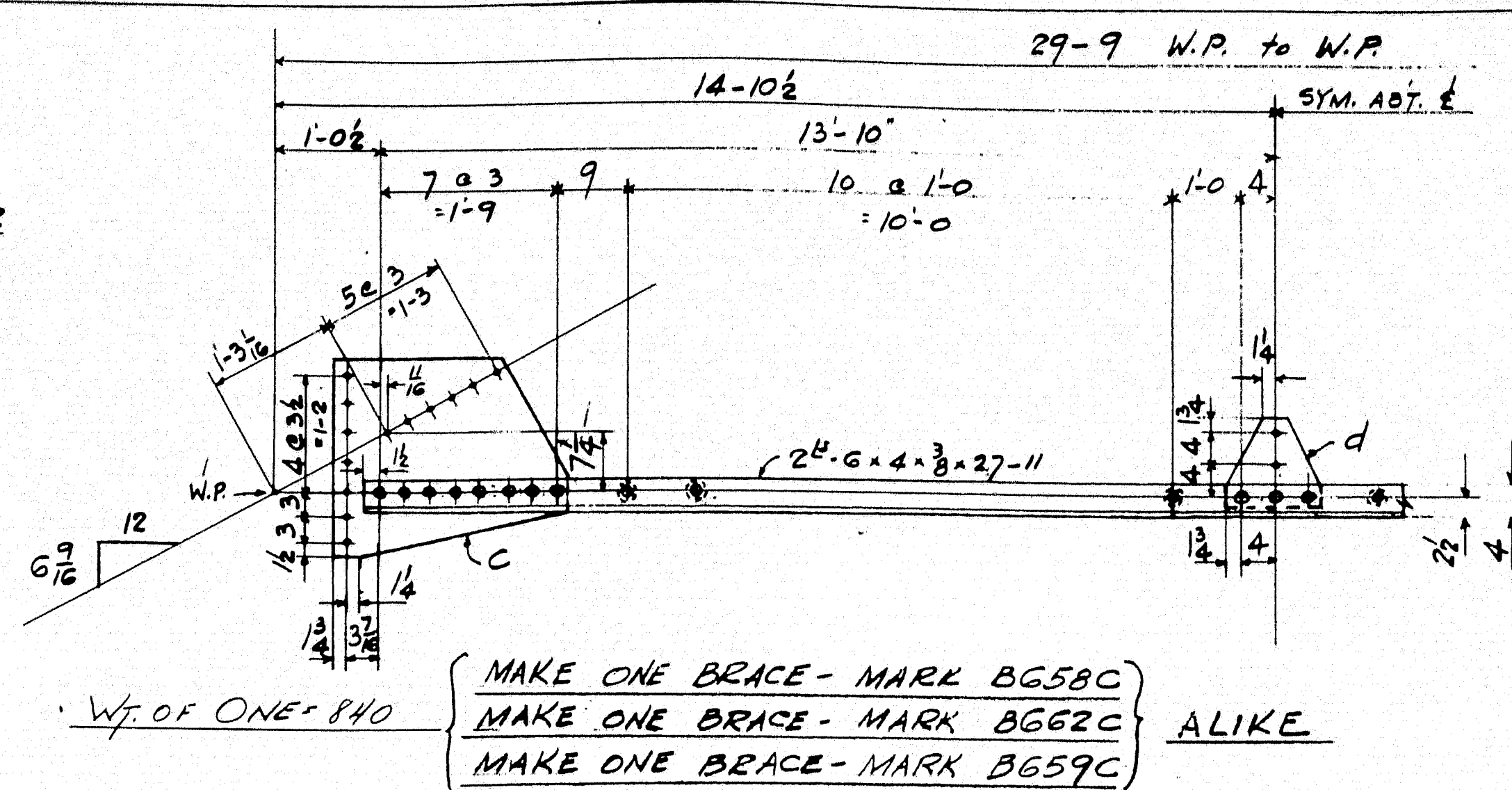
ALL WASHERS $\frac{3}{8}$ " THICK
UNLESS NOTED.

DRAW. MADE BY LK DATE 12-30-49
DRAW. CHECKED BY W.P. DATE 2-2-50
CONTRACT NO. C 378 SHEET NO. 152

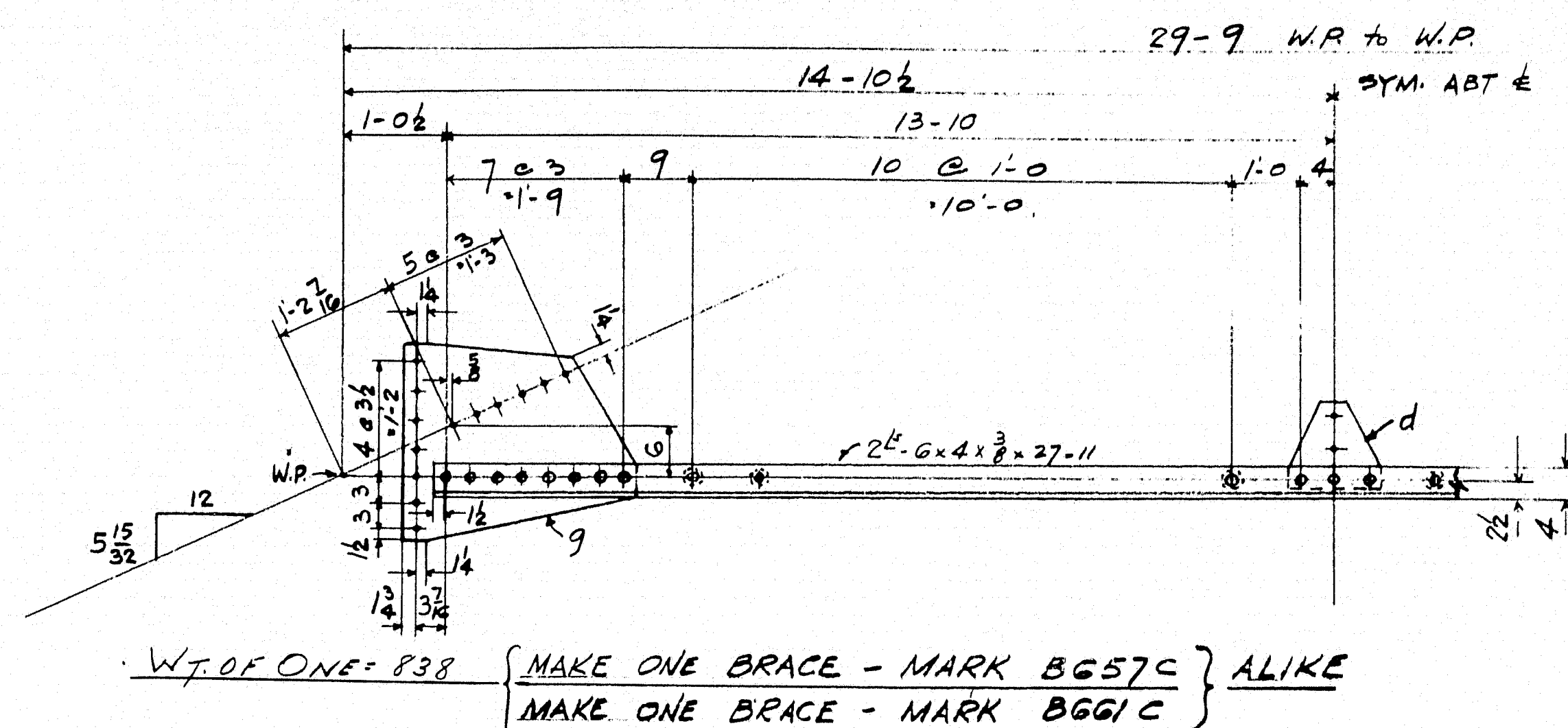


MAKE ONE BRACE-MARK BG58 } ALIKE } WT. OF ONE = 501.
MAKE ONE BRACE-MARK BG62 }
MAKE ONE BRACE-MARK BG59 }

MAKE ONE BRACE-MARK BG57
MAKE ONE BRACE-MARK BG61 } ALIKE W.T. OF ONE = 486



{ MAKE ONE BRACE-MARK BG58C
 MAKE ONE BRACE-MARK BG62C } ALIKE
 MAKE ONE BRACE-MARK BG59C



{ MAKE ONE BRACE - MARK BG57C } ALIKE
{ MAKE ONE BRACE - MARK BGG/C }

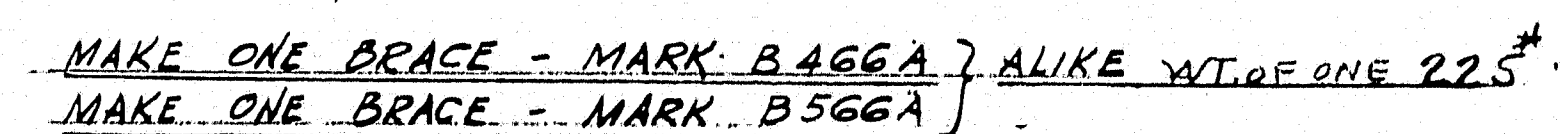
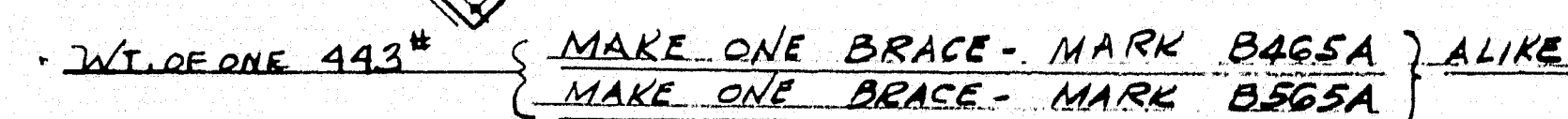
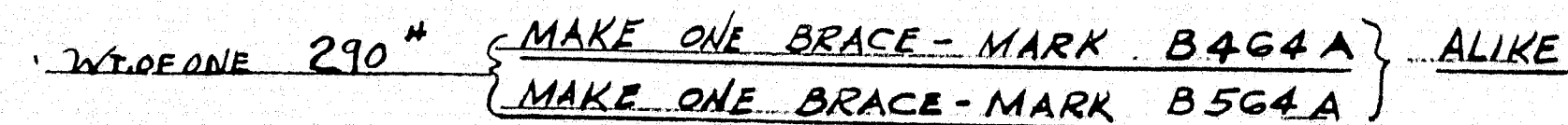
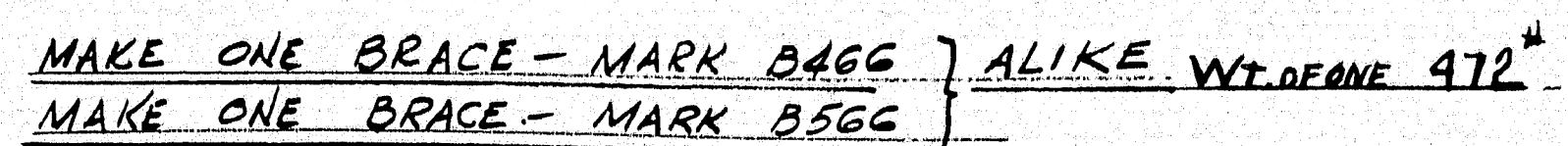
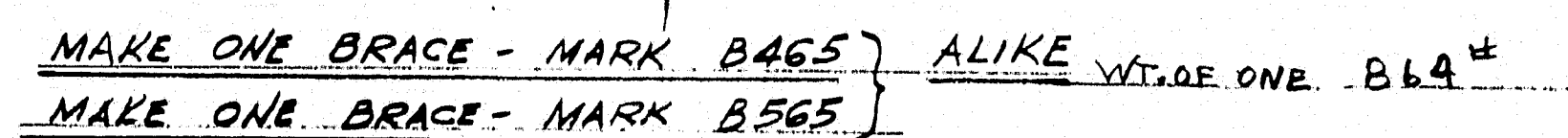
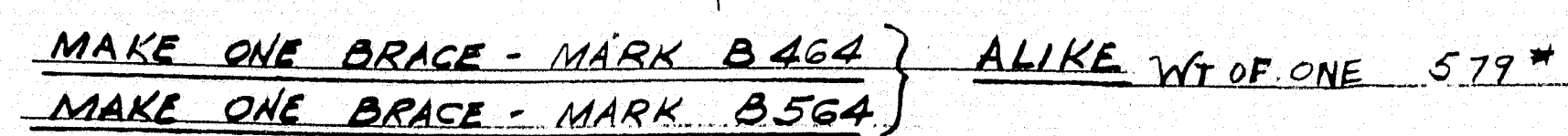
REQ'D			MADE UP OF						
NR	MARK	NO	PC. MK	SIZE	LGTH.	REMARKS	ORD.	WEIGHT	K
1	B658	2		L-32x32x $\frac{5}{16}$	31-7		9-422-5	417.	—
1	B662	2		Do	31-7			417.	—
1	B659	2		Do	31-6 $\frac{3}{4}$			417.	—
		2	a	# 254x $\frac{3}{4}$	3-1 $\frac{3}{4}$	B658-B662	9-422-5	201.	73
		1	b	Do	3-1 $\frac{3}{4}$	B659	Do	100.	36
		6	Washer	2 $\frac{1}{2}$ x $\frac{3}{4}$ xHk		1 $\frac{5}{16}$ " ϕ Hole		2.	
		72	Washer	2 $\frac{1}{2}$ x $\frac{3}{4}$ xHk		Do		19.	
		93	Riv.	7/8 ϕ				33.	
1	B658C	2		L-6x4x $\frac{3}{8}$	27-11		112-4	687.	—
1	B662C	2		Do	27-11			687.	—
1	B659C	2		Do	27-11			687.	—
		6	c	# 232x $\frac{3}{8}$	2-3 $\frac{3}{4}$		9-422-5	415.	60
		3	d	# 112x $\frac{3}{8}$	11 $\frac{1}{2}$		Do	42.	9
		66	Washer	2 $\frac{1}{2}$ x $\frac{3}{4}$ xHk.		1 $\frac{5}{16}$ " ϕ Hole		18.	
		123	Riv.	7/8 ϕ				44.	
1	B657	2		L-32x32x $\frac{5}{16}$	30-5 $\frac{1}{2}$		9-422-5	402.	—
1	B661	2		Do	30-5 $\frac{1}{2}$		Do	402.	—
		2	f	# 30x $\frac{3}{8}$	2-10 $\frac{1}{2}$		9-422-5	224.	77
		4	Washer	2 $\frac{1}{2}$ x $\frac{3}{4}$ xHk.		1 $\frac{5}{16}$ " ϕ Hole		1.	
		44	Washer	2 $\frac{1}{2}$ x $\frac{3}{4}$ xHk.		Do		12.	
		58	Riv.	7/8 ϕ				21.	
1	B657C	2		L-6x4x $\frac{3}{8}$	27-11		112-4	687.	—
1	B661C	2		Do	27-11		Do	687.	—
		4	g	# 232x $\frac{3}{8}$	2-3 $\frac{3}{4}$		9-422-5	277.	45
		2	d				Do	28.	b
		44	Washer	2 $\frac{1}{2}$ x $\frac{3}{4}$ xHk.		1 $\frac{5}{16}$ " ϕ Hole		12.	
		82	Riv.	7/8 ϕ				30.	
Gross wt.								6971.	
Wt. D.E.D.								326.	
Net Wt.								6645.	
Paint								26.	
TOTAL Wt.								6671.	

ARROWSIC BRIDGE OVER SASANOVA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

FOR NOTES ON SPECIFICATIONS, MATERIAL,
PAINTING, PUNCHING, DRILLING, REAMING, ETC.
SEE SHEET X50

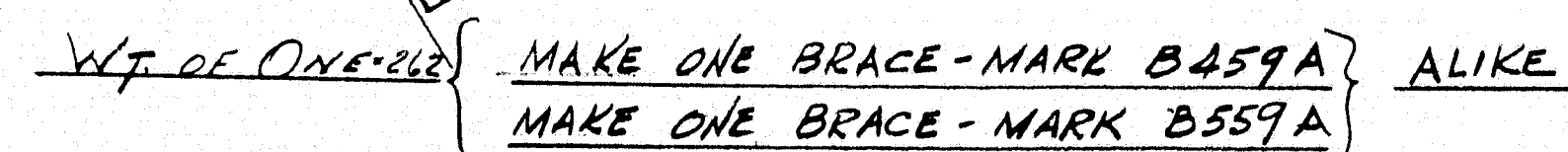
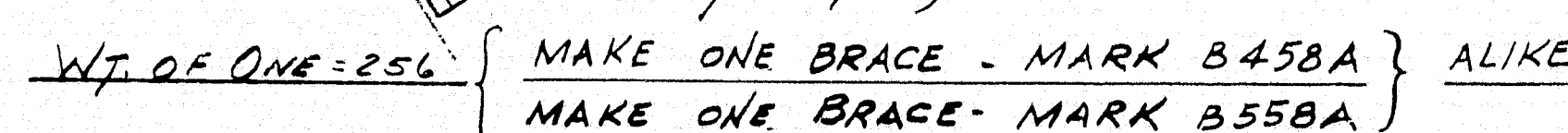
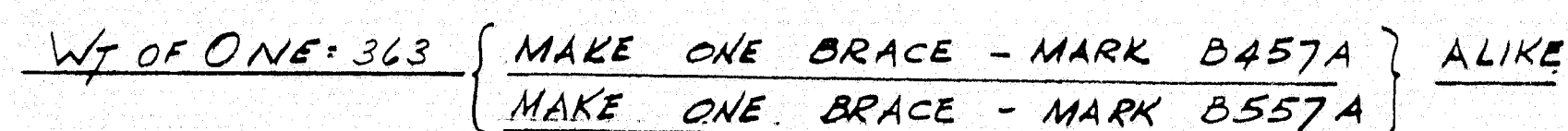
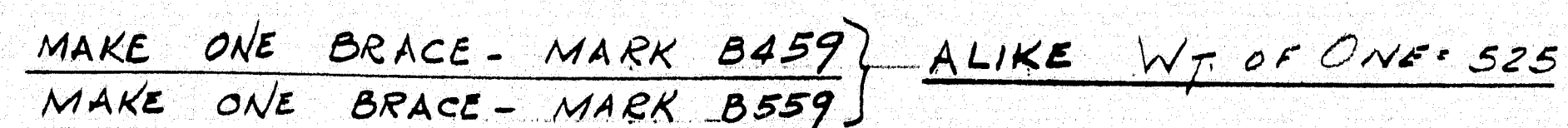
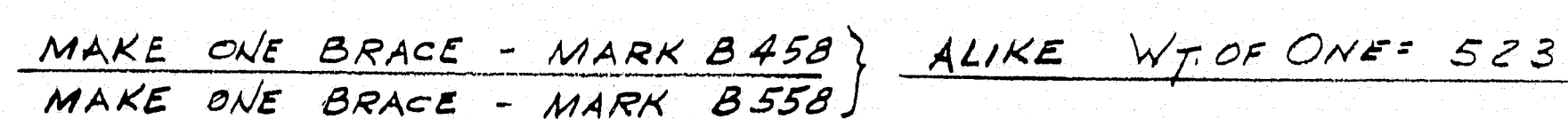
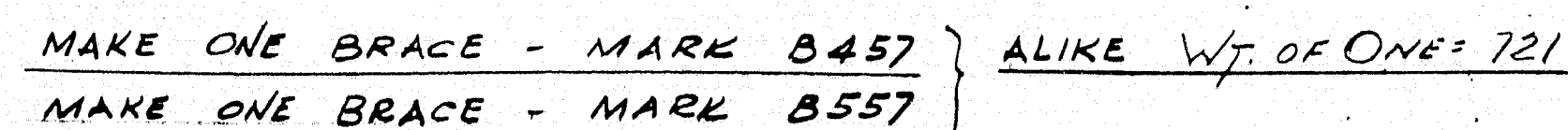
ALL WASHERS $\frac{3}{8}$ " THICK
UNLESS NOTED.

RIVETS <u>7</u> <u>8</u>	DIAM. <u>1/8</u>	OPEN HOLES <u>1/8</u>	DIAM. <u>1/8</u>	HARRIS STRUCTURAL STEEL CO. 419 FOURTH AVE., N. Y.
UNLESS OTHERWISE NOTED				
REVISIONS				LK DATE: <u>12-29-49</u>
DRAW. MADE BY: <u>W.P.</u>				DATE: <u>2-2-50</u>
DRAW. CHECKED BY: <u>W.P.</u>				DATE: <u>2-2-50</u>
CONTRACT NO. <u>C 378</u>				SHEET NO. <u>153</u>



Gross wt.	5933.
Wt. D.E.D.	209.
Net Wt.	5724.
Paint	22.
Total Wt.	5746.

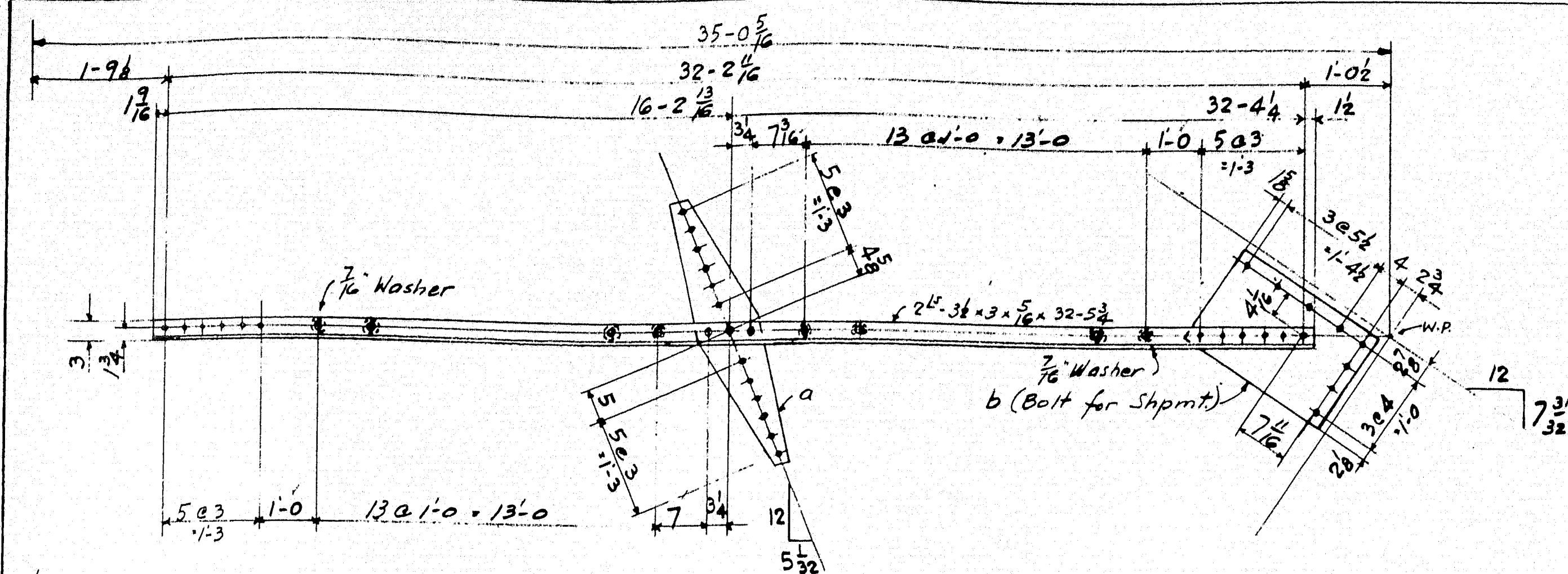
DRAW. MADE BY LK DATE 12-27-49
 DRAW. CHECKED BY W.P. DATE 1-2-50
 CONTRACT No. C378 SHEET No. 154



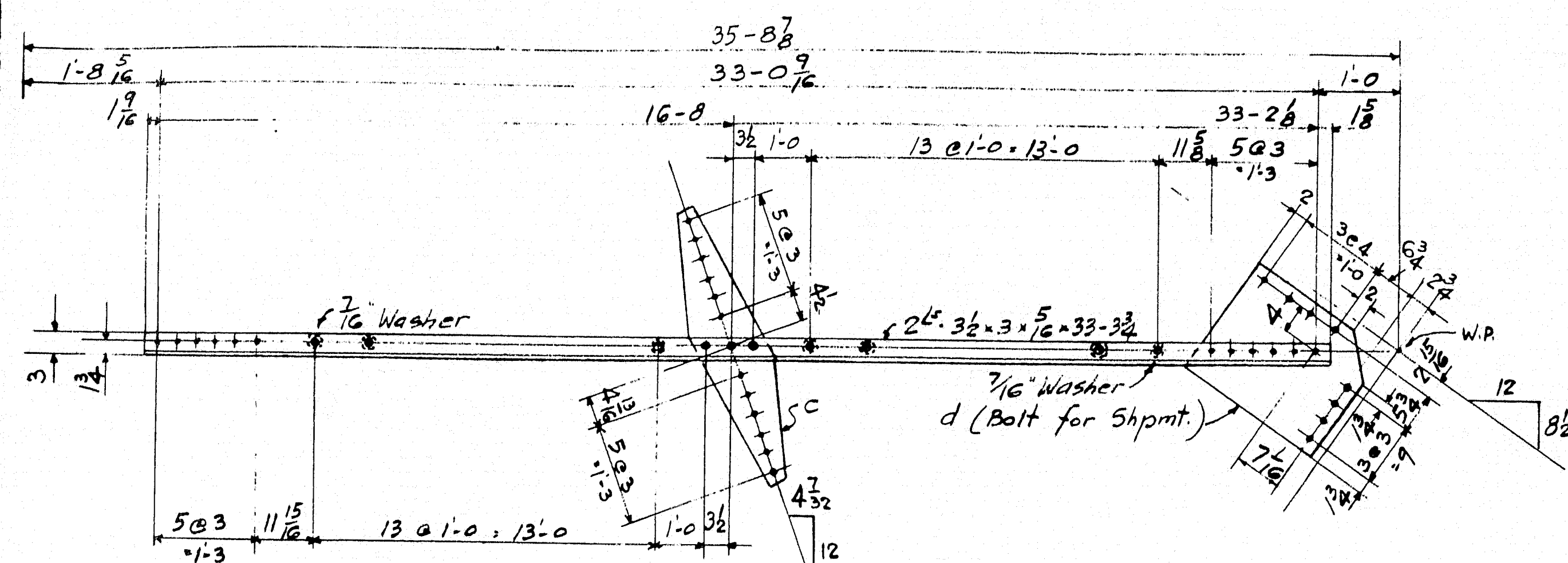
Gross wt.	5359.
wt. DEP.	80.
Net. wt.	5279.
Paint	21.
TOTAL wt.	5300.

SWAY BRACING

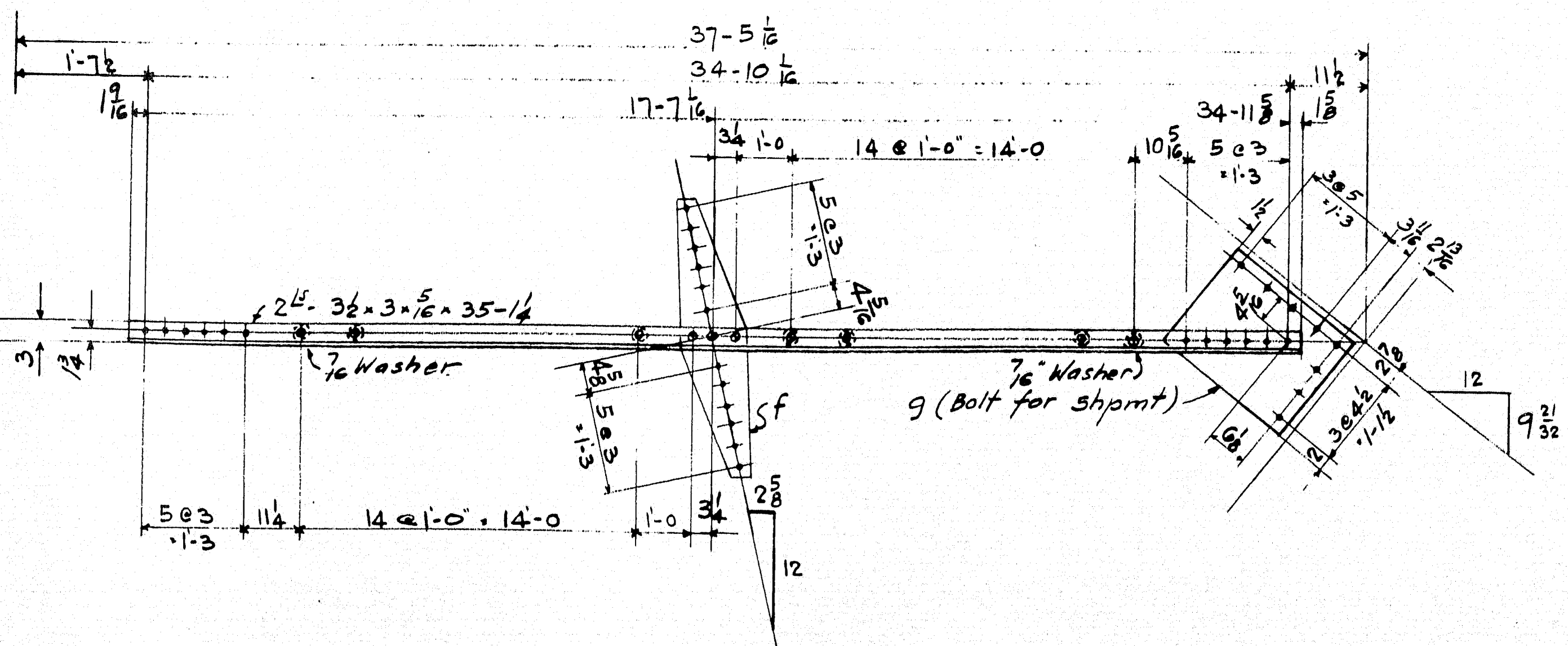
RIVETS <u>7</u>	DIAM. <u>8</u>	OPEN HOLES <u>15</u>	DIAM. <u>16</u>	HARRIS STRUCTURAL STEEL CO. 619 FORTH AVE., N. Y.
UNLESS OTHERWISE NOTED				
REVISIONS				
				DRAW, MADE BY <u>LK</u> DATE <u>12-21-4</u> DRAW, CHECKED BY <u>W.P.</u> DATE <u>2-2-4</u> CONTRACT NO. <u>C378</u> SHEET NO. <u>155</u>



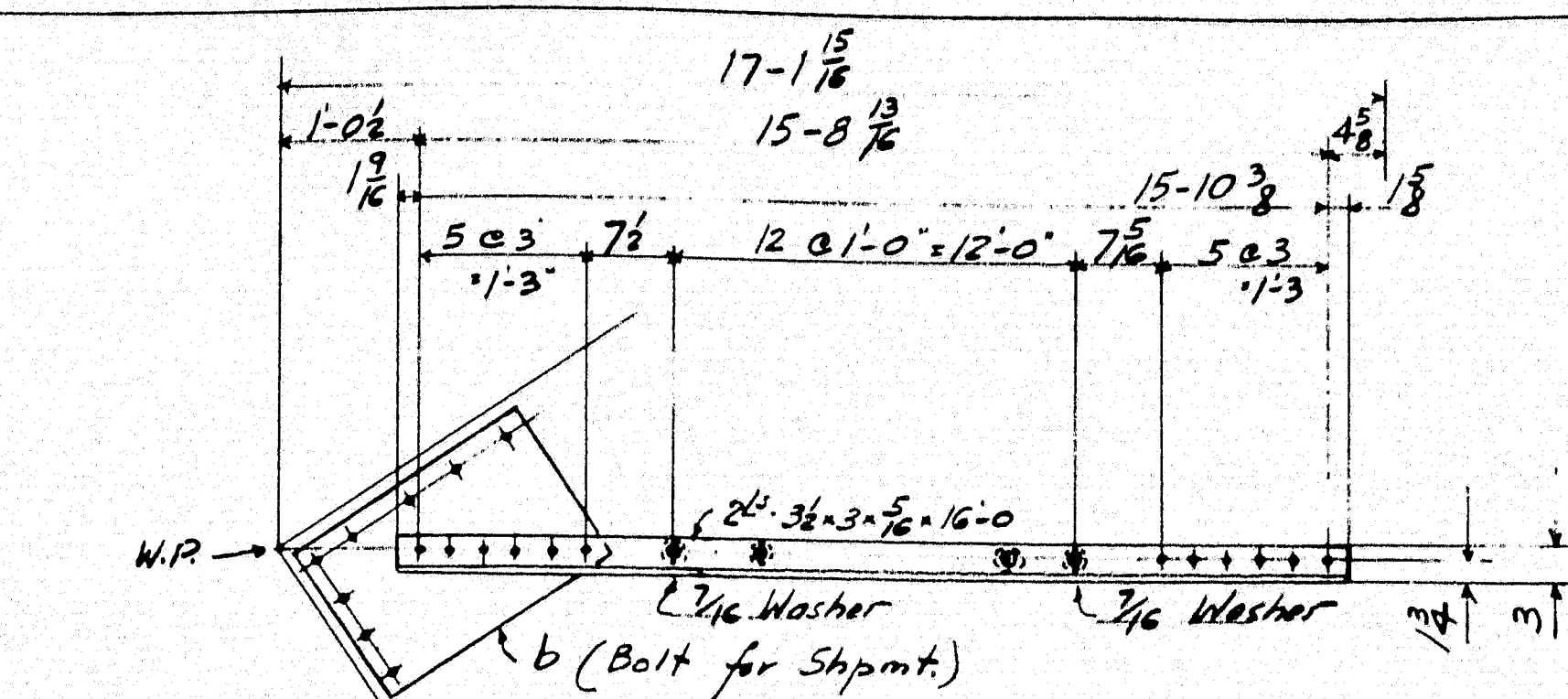
MAKE ONE BRACE - MARK B460 } ALIKE WT. OF ONE = 521
MAKE ONE BRACE - MARK B560 }



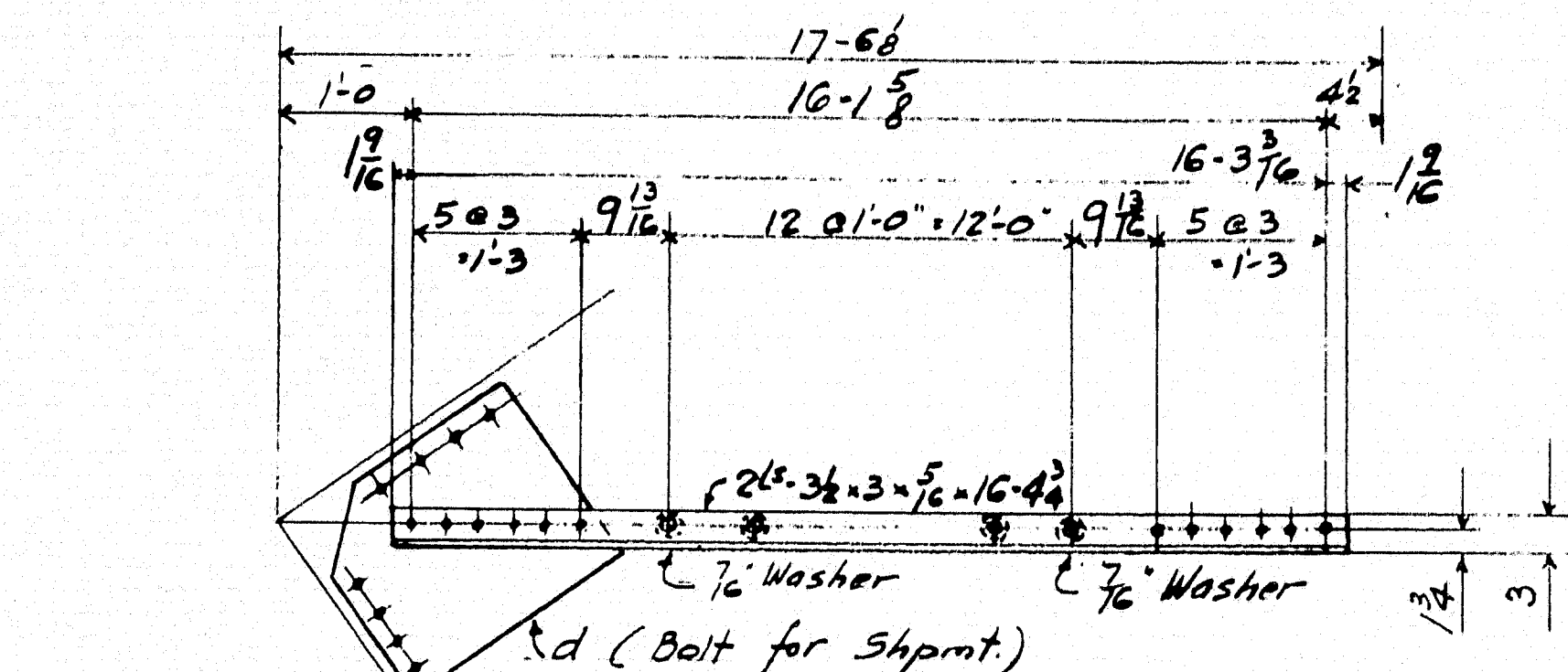
MAKE ONE BRACE - MARK B461 } ALIKE WT. OF ONE = 536
MAKE ONE BRACE - MARK B561 }



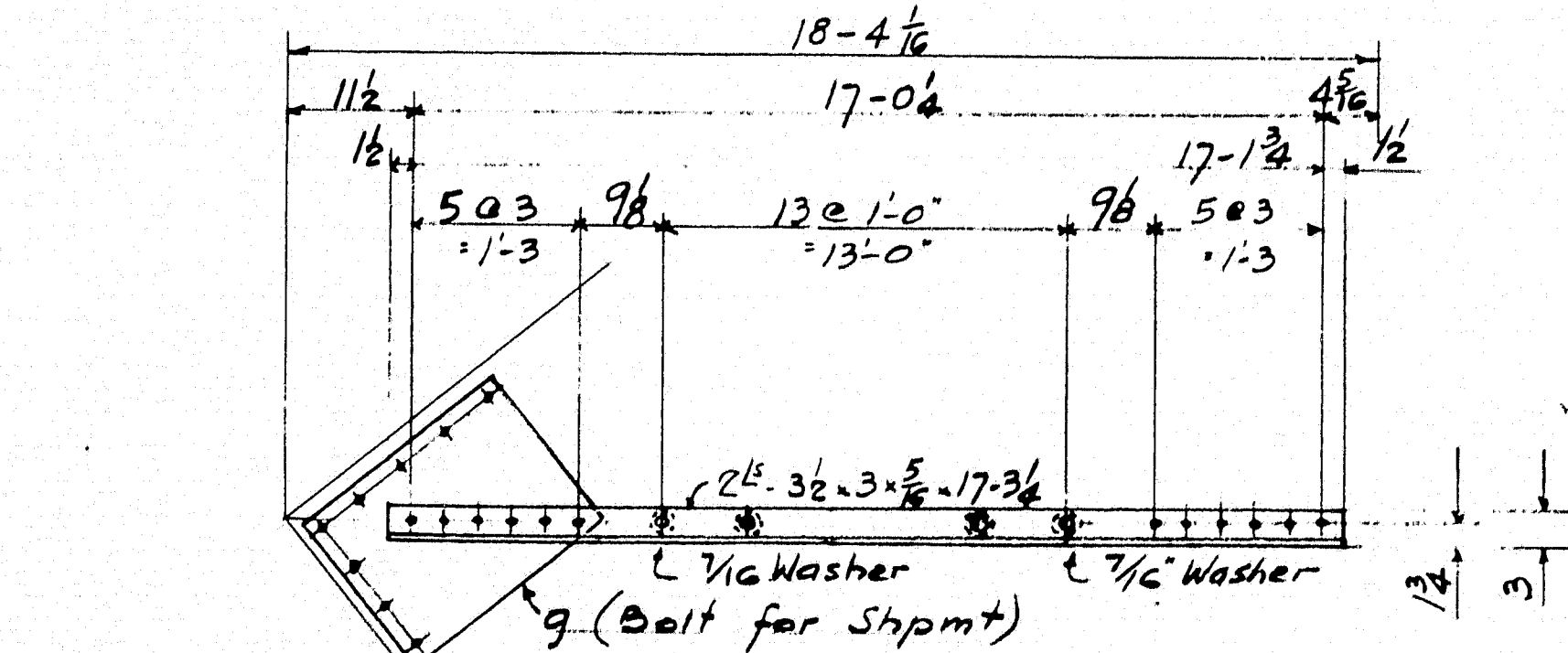
MAKE ONE BRACE - MARK B462 } ALIKE WT. OF ONE = 559
MAKE ONE BRACE - MARK B562 }



WT. OF ONE = 222 { MAKE ONE BRACE - MARK B460A } ALIKE
MAKE ONE BRACE - MARK B560A }



WT. OF ONE = 269 { MAKE ONE BRACE - MARK B461A } ALIKE
MAKE ONE BRACE - MARK B561A }



WT. OF ONE = 279 { MAKE ONE BRACE - MARK B462A } ALIKE
MAKE ONE BRACE - MARK B562A }

REQ'D.		MADE UP OF						
NR	MARK	NO	PC.MK.	SIZE	LGTH.	REMARKS	ORD.	WEIGHT
1	B460	2		L-3 1/2 x 3 1/2	32-5 3/4		9-422-5	429
1	B560	2		D	32-5 3/4		D	429
		2	a	# 10 x 3	3-6		9-423-5	90
		2	b	# 10 x 3	2-0		D	82
		4	Washer	2 1/2 x 3/4 x 1/4		1/2" Hole		1
		52	Washer	2 1/2 x 3/4 x 1/4		D		14
		62	Riv.	7/8 x 3/4				22
		4	Bolt	7/8 x 2 1/2				2
1	B460A	2		L-3 1/2 x 3 1/2	16-0		9-422-5	211
1	B560A	2		D	16-0		D	211
		2	b				9-423-5	82
		4	Washer	2 1/2 x 3/4 x 1/4		1/2" Hole		1
		22	Washer	2 1/2 x 3/4 x 1/4		D		6
		26	Riv.	7/8 x 3/4				9
		4	Bolt	7/8 x 2 1/2				2
1	B461	2		L-3 1/2 x 3 1/2	33-3 3/4		9-422-4	440
1	B561	2		D	33-3 3/4		D	440
		2	c	# 10 x 3	3-6		9-423-5	89
		2	d	# 10 x 3	1-10 1/2		D	89
		4	Washer	2 1/2 x 3/4 x 1/4		1/2" Hole		1
		52	Washer	2 1/2 x 3/4 x 1/4		D		14
		62	Riv.	7/8 x 3/4				22
		4	Bolt	7/8 x 2 1/2				2
1	B461A	2		L-3 1/2 x 3 1/2	16-4 3/4		9-422-4	216
1	B561A	2		D	16-4 3/4		D	216
		2	d				9-423-5	89
		4	Washer	2 1/2 x 3/4 x 1/4		1/2" Hole		1
		22	Washer	2 1/2 x 3/4 x 1/4		D		6
		26	Riv.	7/8 x 3/4				9
		4	Bolt	7/8 x 2 1/2				2
1	B462	2		L-3 1/2 x 3 1/2	35-1 1/4		9-422-3	463
1	B562	2		D	35-1 1/4		D	463
		2	f	# 10 x 3	3-5 1/2		9-423-5	88
		2	g	# 17 1/2 x 3	1-10		D	82
		4	Washer	2 1/2 x 3/4 x 1/4		1/2" Hole		1
		56	Washer	2 1/2 x 3/4 x 1/4		D		15
		66	Riv.	7/8 x 3/4				24
		4	Bolt	7/8 x 2 1/2				2
1	B462A	2		L-3 1/2 x 3 1/2	17-3/4		9-422-3	228
1	B562A	2		D	17-3/4		D	228
		2	g				9-423-5	82
		4	Washer	2 1/2 x 3/4 x 1/4		1/2" Hole		1
		24	Washer	2 1/2 x 3/4 x 1/4		D		6
		28	Riv.	7/8 x 3/4				10
		4	Bolt	7/8 x 2 1/2				2

Gross Wt. 4922.
Wt. Ded. 91.
Net Wt. 4831.
Paint 19.
Total Wt. 4850.

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

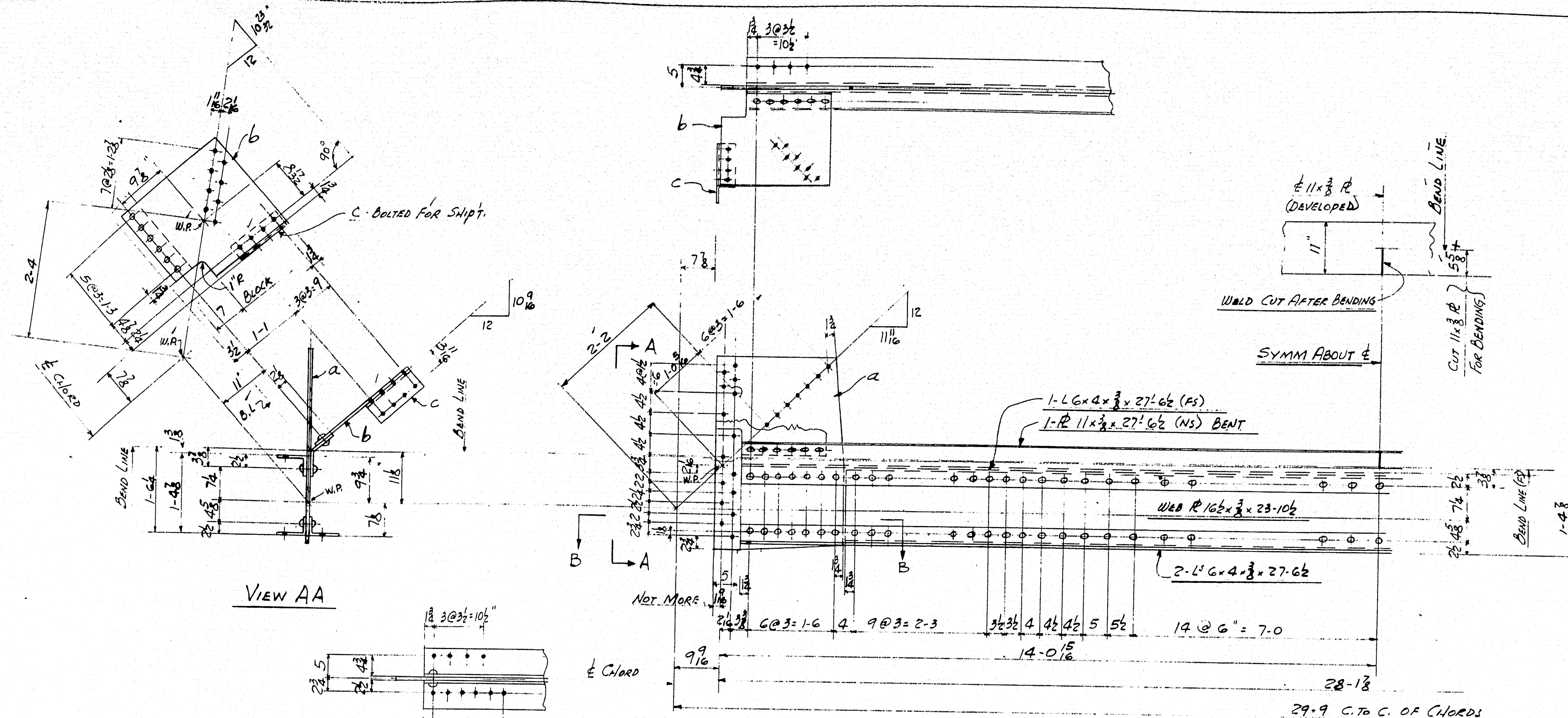
SWAY BRACING

FOR NOTES ON SPECIFICATIONS, MATERIAL,
PAINTING, PUNCHING, DRILLING, REAMING, ETC.,
SEE SHEET X50

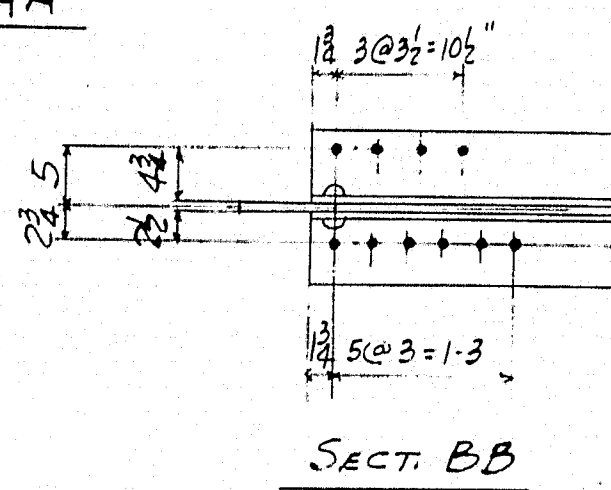
ALL WASHERS 3/8\"/>

REVISIONS	DATE	BY	CHKD.
1	12-23-49	LK	
2	1-2-50	WB	

HARRIS STRUCTURAL STEEL CO.
419 FOURTH AVE., N. Y.
DRAWN BY: LK
CHECKED BY: WB
CONTRACT No. C-378 SHEET No. 156

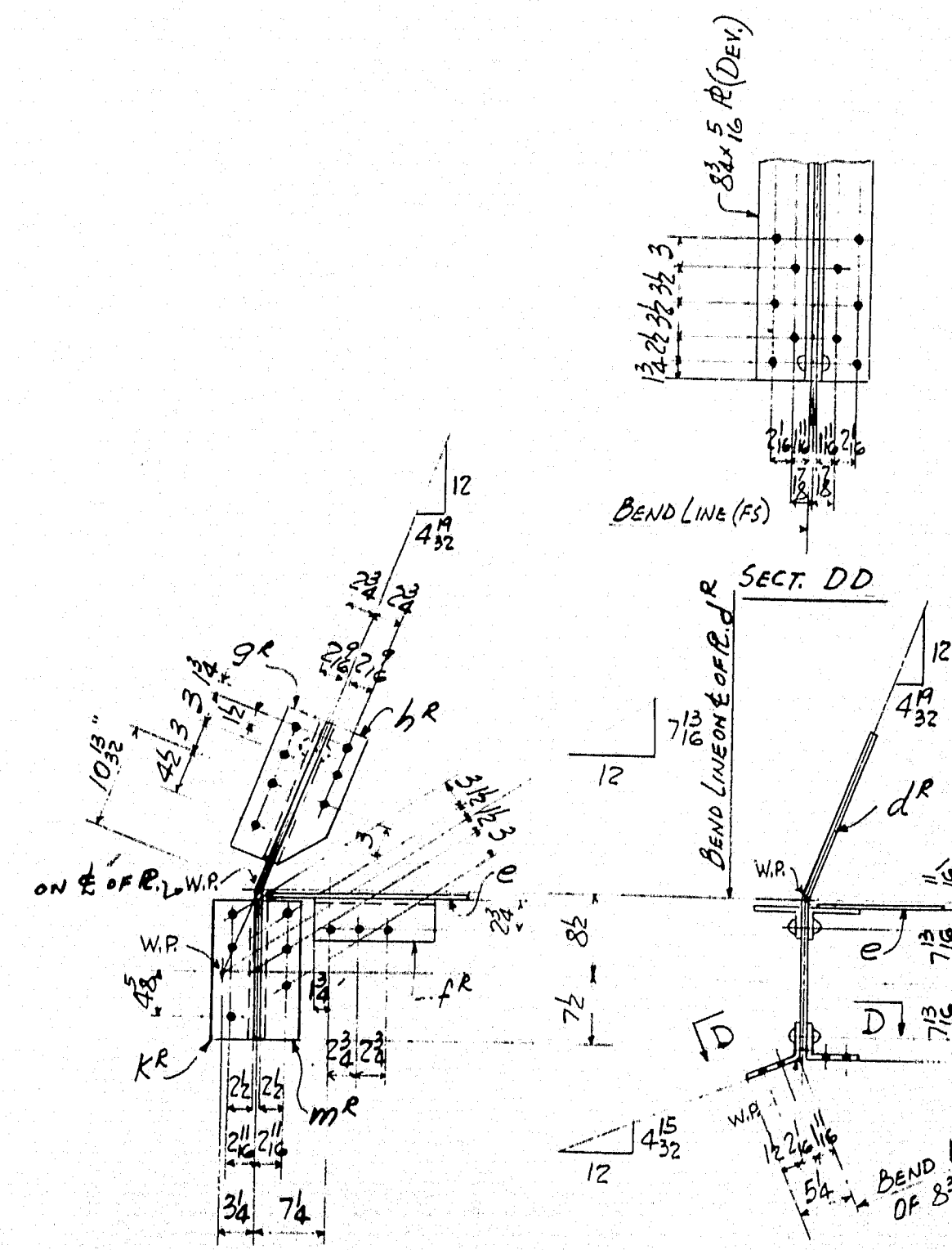


VIEW AA

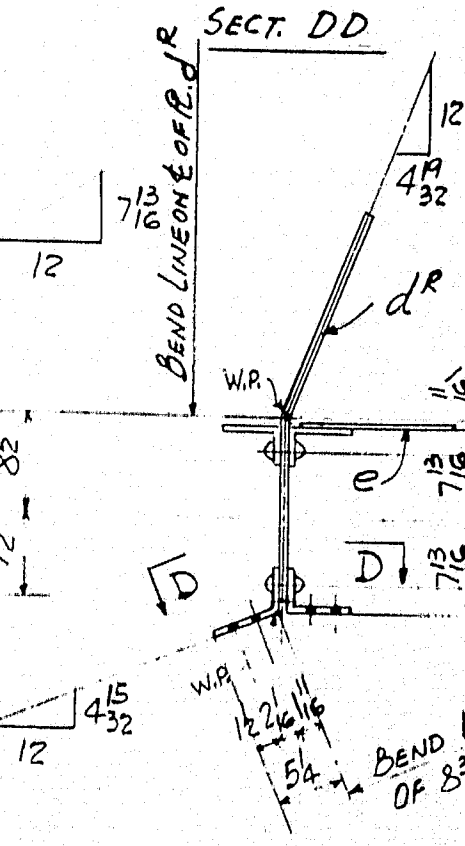


SECT. BB

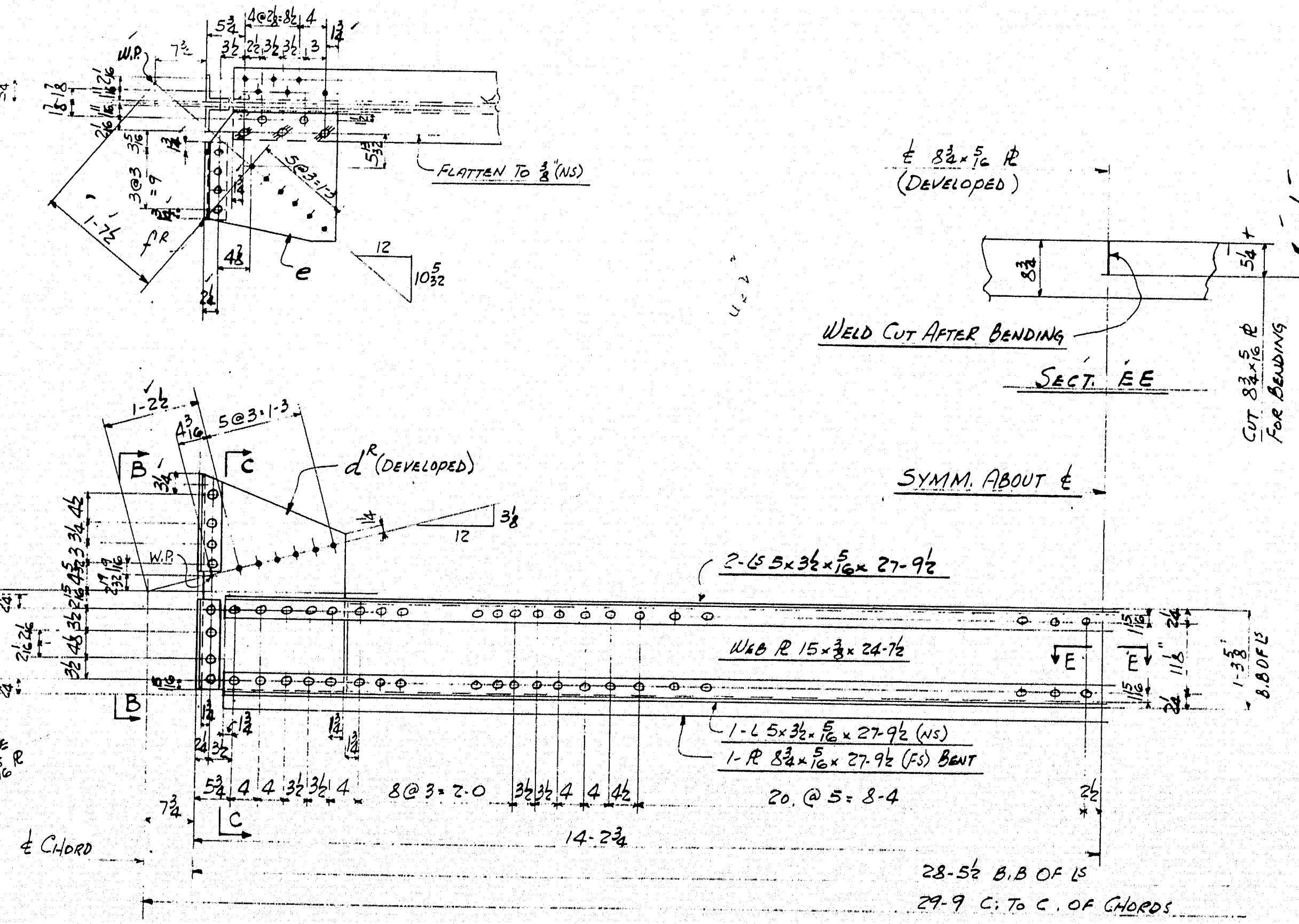
MAKE ONE STRUT - MARK B449
MAKE ONE STRUT - MARK B528 } ALIKE WT. OF ONE = 2425.



SECT. CC



SECT. DD



SECT. EE

MAKE ONE STRUT - MARK B453
MAKE ONE STRUT MARK B524 } ALIKE WT. OF ONE = 1861.

Sheet No	Req'd No	MARK	NO	PLATE	SIZE	LENGTH	REMARKS	ORD	WEIGHT	NOTES
4	1	B449								
5	1	B528								
			6		L 6x4x3/8	27-6 1/2		111-3	2032	
			2		R 11x3/8	27-6 1/2	BENT	9-442-12	773	
			4		WEB R 16x3/8	23-10 1/2		Do - 12	1005	
			4		R 23x3/8	2-5 1/2		9-423-1	629	12
			4		R 23x3/8	2-1 1/2		Do - 5	253	
			4		L 5x3x3/8	1-0		119-8	42	
			8		80 BOLTS	2 1/2			4	
			324		80 RVS				117	
4	1	B453								
5	1	B524								
			6		L 5x3x3/8	27-9 1/2		9-418-106	1451	
			2		R 8x3/8	27-9 1/2	BENT	9-442-14	517	
			2		WEB R 15x3/8	34-7 1/2		9-419-52	942	
			4		R 22x3/8	2-10	BENT	9-423-5	318	40
			4		R 19x3/8	1-8 1/2		Do	170	12
			4		L 4x3x3/8	1-0 1/2		119-9	38	
			4		Do	1-3 3/8			48	
			4		Do	1-3 3/8			48	2
			4		Do	1-3			46	
			4		Do	1-3			46	
			380		80 RVS				137	
								GROSS WT	8616	
								WT. DEL	78	
								NET WT	8538	
								PAINT	34	
								TOTAL WT	8572	

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

STRUTS (BOTTOM CHORD)

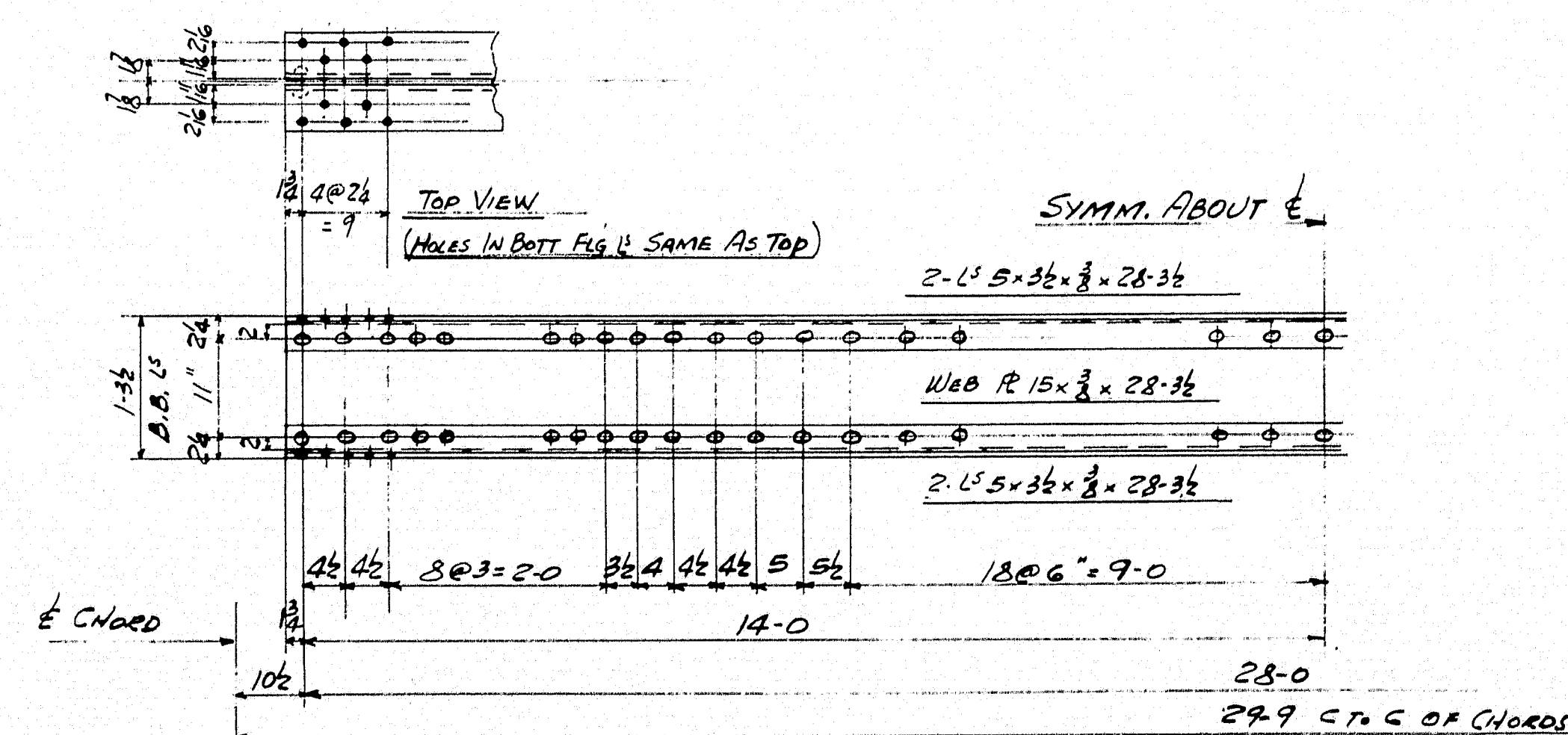
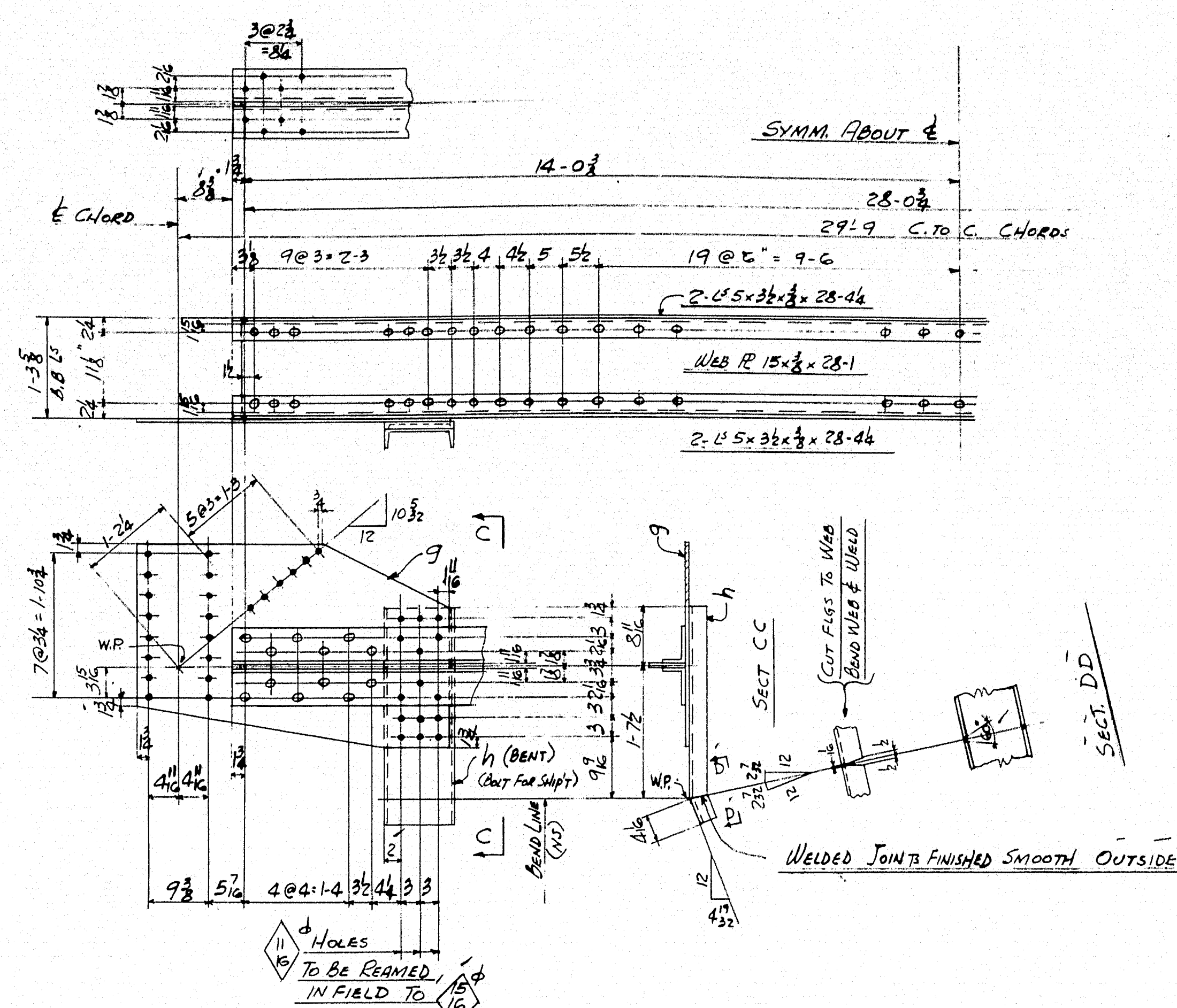
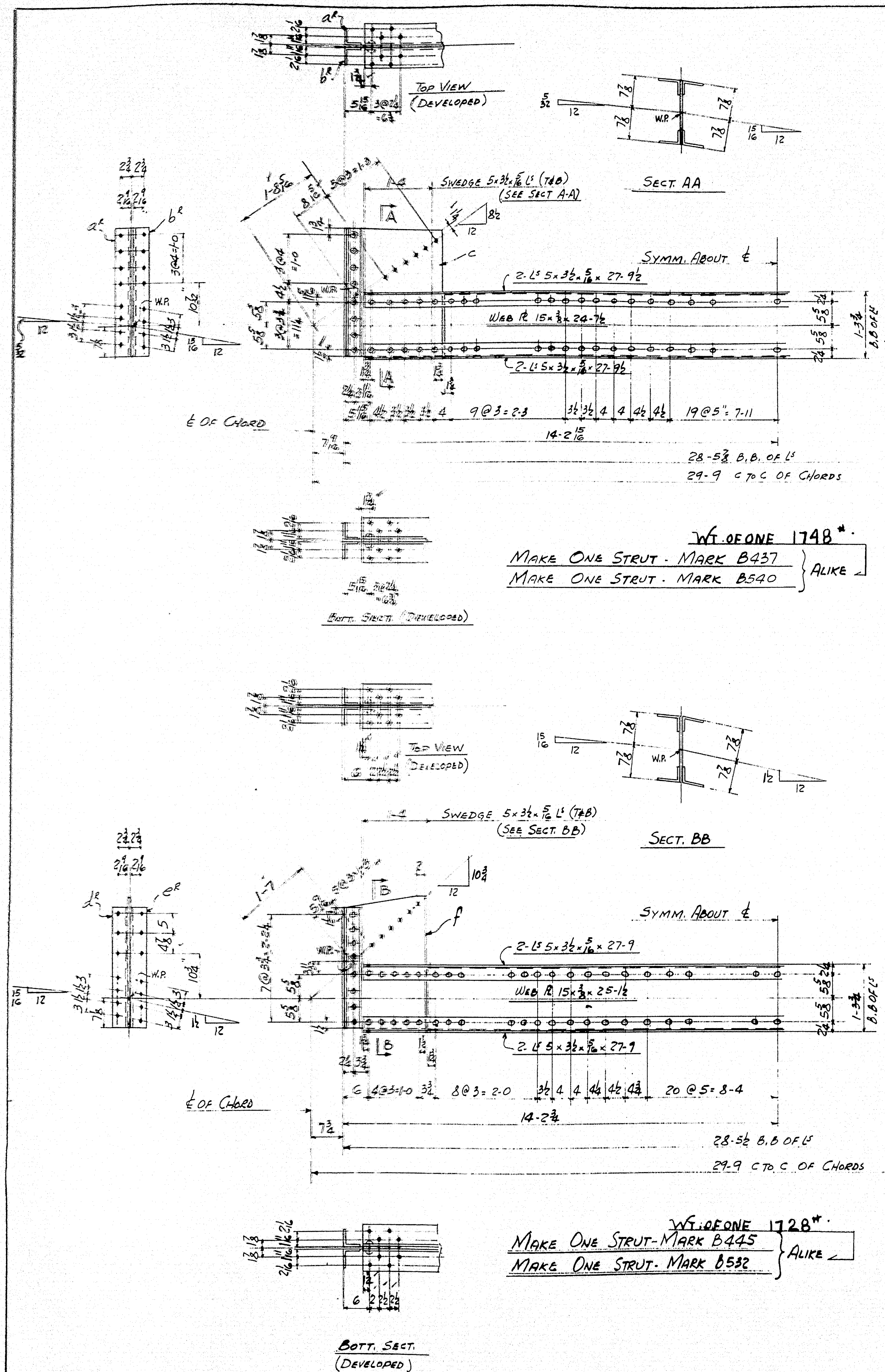
FOR NOTES ON SPECIFICATIONS, MATERIAL,
PAINTING, PUNCHING, DRILLING, REAMING, ETC.
SEE SHEET X50

RIVETS 3/8" DIAM. OPEN HOLES 1/2" DIAM.
UNLESS OTHERWISE NOTED

HARRIS STRUCTURAL STEEL CO.
619 FOURTH AVE., N. Y.

REVISIONS

DRAWN BY: C2 DATE: 12-22-49
CHECKED BY: FT DATE: 1-20-50
CONTRACT No. 2378 SHEET No. 157



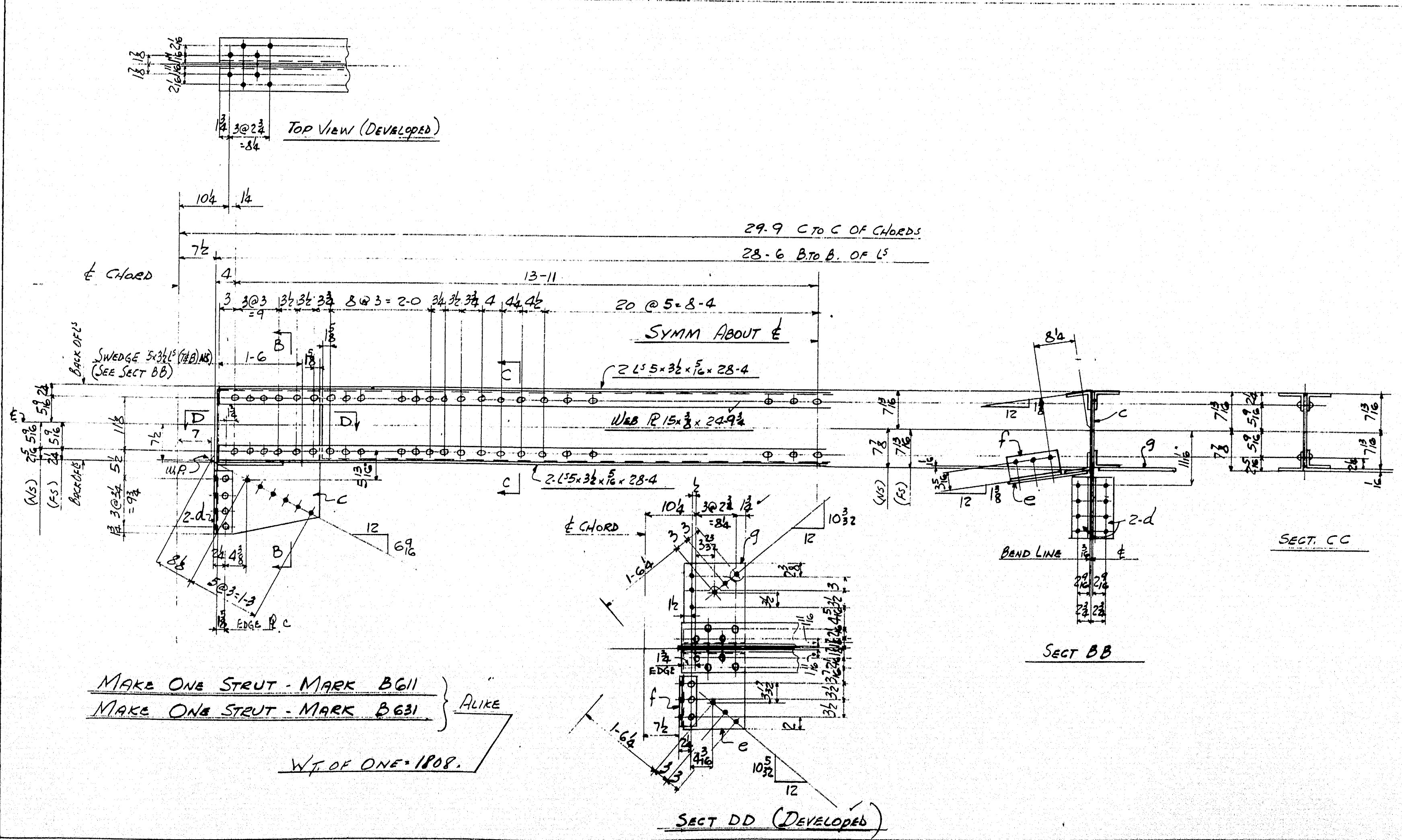
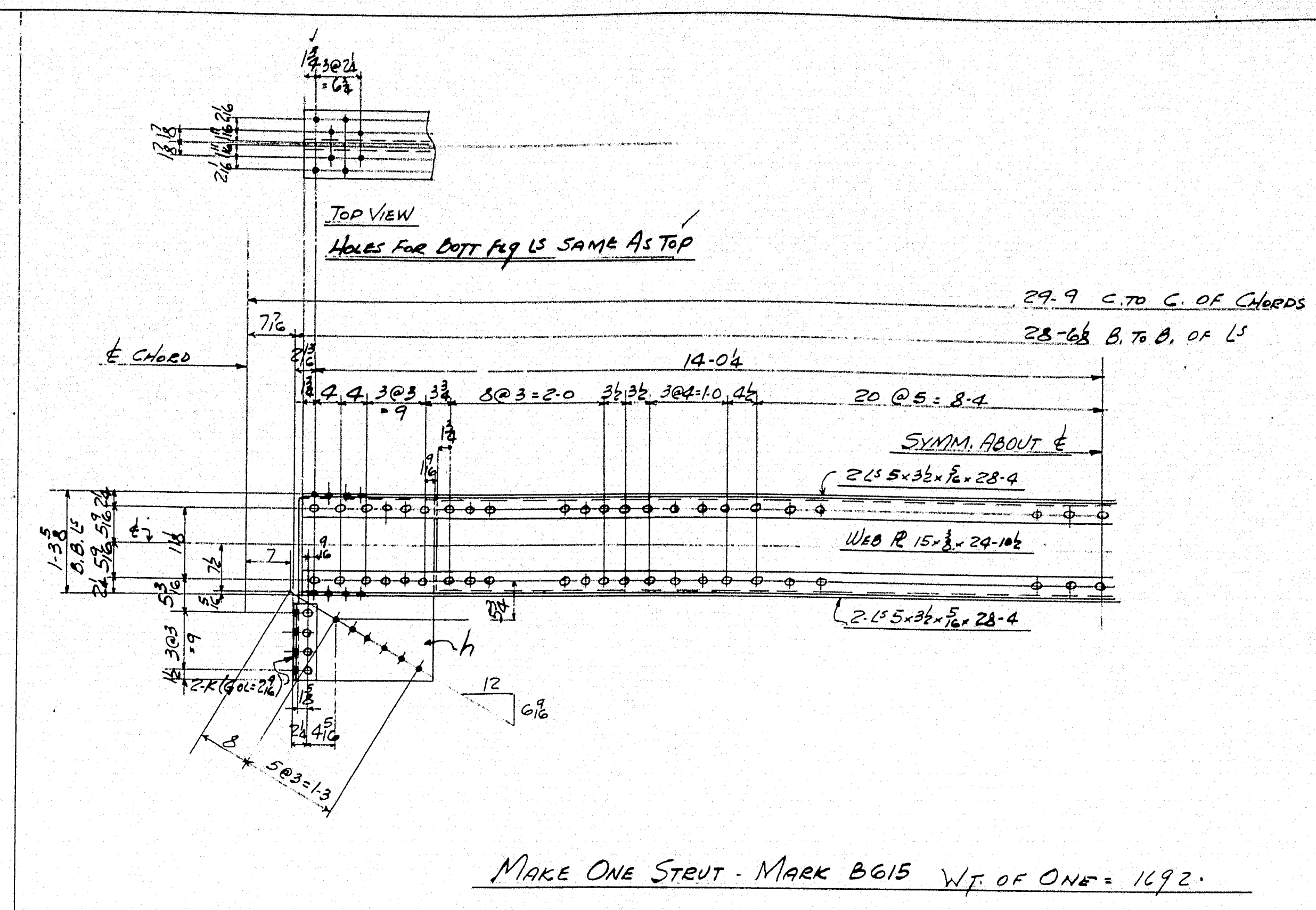
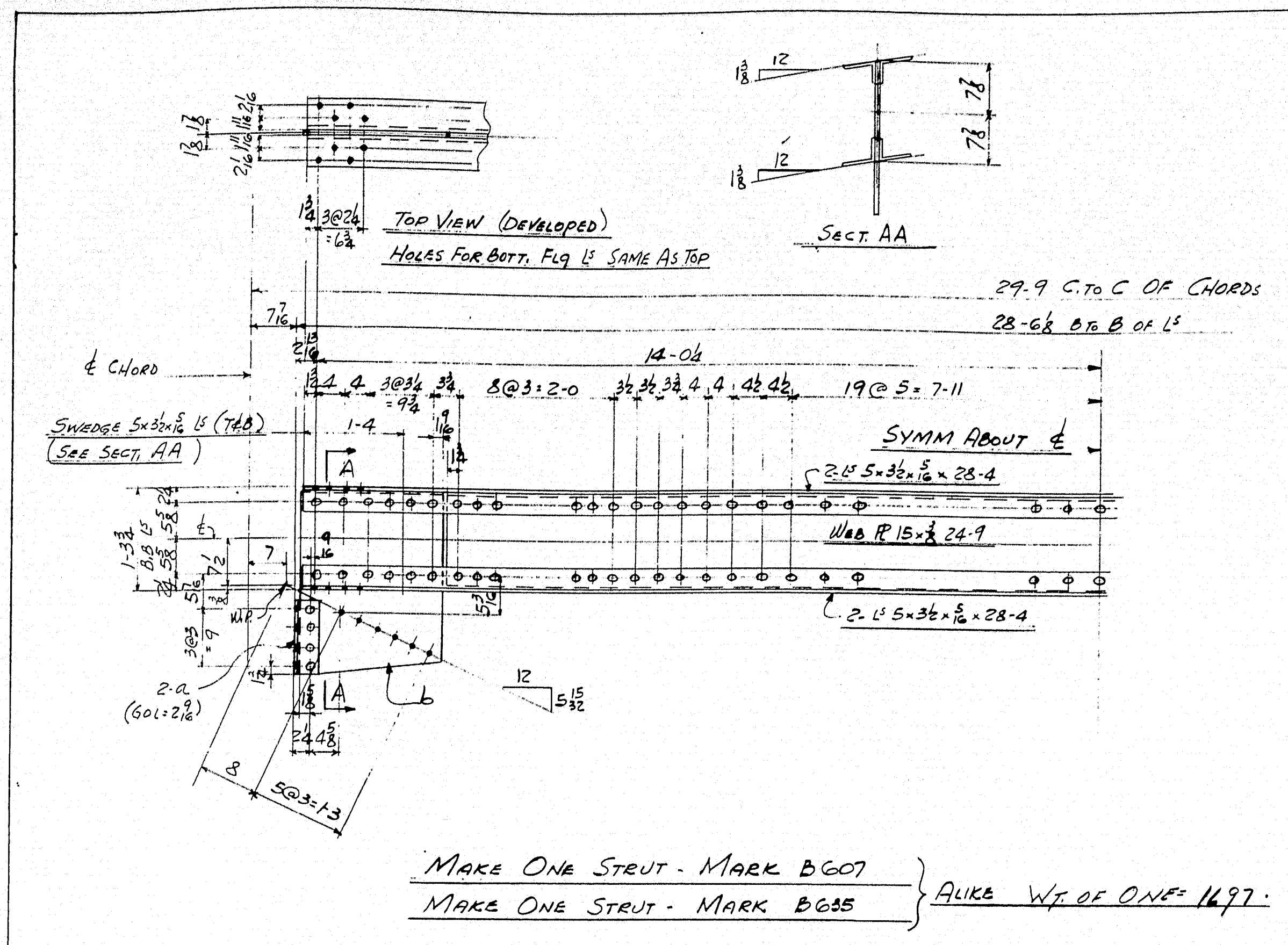
SHIP	REQ'D	MADE UP OF	REMARKS	ORD	WEIGHT
No	No	PC MK	SIZE	LENGTH	
4	1	B437	1		
5	1	B540	1		
		8	1/5 x 3/8 x 27-9 1/2	27-9 1/2	9-418-107
		2	Web R 15 x 3/8 x 28-7 1/2	28-7 1/2	9-419-52
		4	2-L 5 x 3/8 x 27-9 1/2	27-9 1/2	119-9
		4	2-L 5 x 3/8 x 27-9 1/2	27-9 1/2	Do
		4	R 22 x 1/2	2-7	9-423-5
		348	3/8 RVS		125
4	1	B445	1		
5	1	B532	1		
		8	1/5 x 3/8 x 27-9 1/2	27-9 1/2	9-418-107
		2	Web R 15 x 3/8 x 28-7 1/2	28-7 1/2	9-419-51
		4	2-L 5 x 3/8 x 27-9 1/2	27-9 1/2	119-9
		4	2-L 5 x 3/8 x 27-9 1/2	27-9 1/2	Do
		4	R 19 x 1/2	2-7 1/2	9-423-5
		348	3/8 RVS		125
4	1	B467	1		
5	1	B567	1		
		8	1/5 x 3/8 x 28-4 1/2	28-4 1/2	9-418-105
		2	Web R 15 x 3/8 x 28-1	28-1	9-419-50
		4	R 32 x 1/2	4-0	9-423-2
		4	10 L 20	2-8 1/2	BENT FOR SHIP
		324	3/8 RVS		119-3
		8	3/8 RVS	2 1/2	
6	2	B643	1		
		8	1/5 x 3/8 x 28-3 1/2	28-3 1/2	9-418-105
		2	Web R 15 x 3/8 x 28-3 1/2	28-3 1/2	9-419-50
		276	3/8 RVS		99
					GROSS WT. 15002
					WT. DED. 103
					NET WT. 14899
					PAINT 59
					TOTAL WT. 14958

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

STRUTS - (BOTTOM CHORD)

FOR NOTES ON SPECIFICATIONS, MATERIAL,
PAINTING, PUNCHING, DRILLING, REAMING, ETC.
SEE SHEET X50

REVISED	DATE	BY
1	12-22-49	CT
2	1-22-50	FT
3	1-22-50	FT
4	1-22-50	FT
5	1-22-50	FT
6	1-22-50	FT
7	1-22-50	FT
8	1-22-50	FT
9	1-22-50	FT
10	1-22-50	FT
11	1-22-50	FT
12	1-22-50	FT
13	1-22-50	FT
14	1-22-50	FT
15	1-22-50	FT
16	1-22-50	FT
17	1-22-50	FT
18	1-22-50	FT
19	1-22-50	FT
20	1-22-50	FT
21	1-22-50	FT
22	1-22-50	FT
23	1-22-50	FT
24	1-22-50	FT
25	1-22-50	FT
26	1-22-50	FT
27	1-22-50	FT
28	1-22-50	FT
29	1-22-50	FT
30	1-22-50	FT
31	1-22-50	FT
32	1-22-50	FT
33	1-22-50	FT
34	1-22-50	FT
35	1-22-50	FT
36	1-22-50	FT
37	1-22-50	FT
38	1-22-50	FT
39	1-22-50	FT
40	1-22-50	FT
41	1-22-50	FT
42	1-22-50	FT
43	1-22-50	FT
44	1-22-50	FT
45	1-22-50	FT
46	1-22-50	FT
47	1-22-50	FT
48	1-22-50	FT
49	1-22-50	FT
50	1-22-50	FT



SUPP.	REQ'D	MADE UP OF	REMARKS	ORD	WEIGHT
No.	MARK	No.	SIZE	LENGTH	
6	1	B607			
6	1	B635			
		8	4x3x1/2"	28'-4"	SWEDGE 2 ENDS 9'-418-106 1972
		2	Web R 15x3/8"	24'-9"	9'-419-50 947
		8	4x3x1/2"	1'-02"	119'-9 76
		4	R 21x3/8"	2'-54"	9'-423-5 268
		340	3/8" RVS		122
6	1	B611			
6	1	B631			
		8	4x3x1/2"	28'-4"	SWEDGE 2 ENDS 9'-418-106 1972
		2	R 15x3/8"	24'-9"	9'-419-50 947
		4	C	2'-6"	9'-423-5 268
		8	R 15x3/8"	1'-14"	119'-9 80
		4	C	1'-4"	9'-423-5 81
		4	F	10"	119'-8 35
		4	G	1'-4"	9'-423-5 86
		340	3/8" RVS		138
6	1	B615			
		4	4x3x1/2"	28'-4"	9'-418-106 986
		1	R 15x3/8"	24'-102"	9'-419-50 476
		2	R 20x3/8"	2'-42"	9'-423-5 127
		4	4x3x1/2"	1'-0"	119'-9 36
		170	3/8" RVS		61
					GROSS WT. 8680
					WT. DED. 13
					NET WT. 8667
					PAINT 35
					TOTAL WT. 8702

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

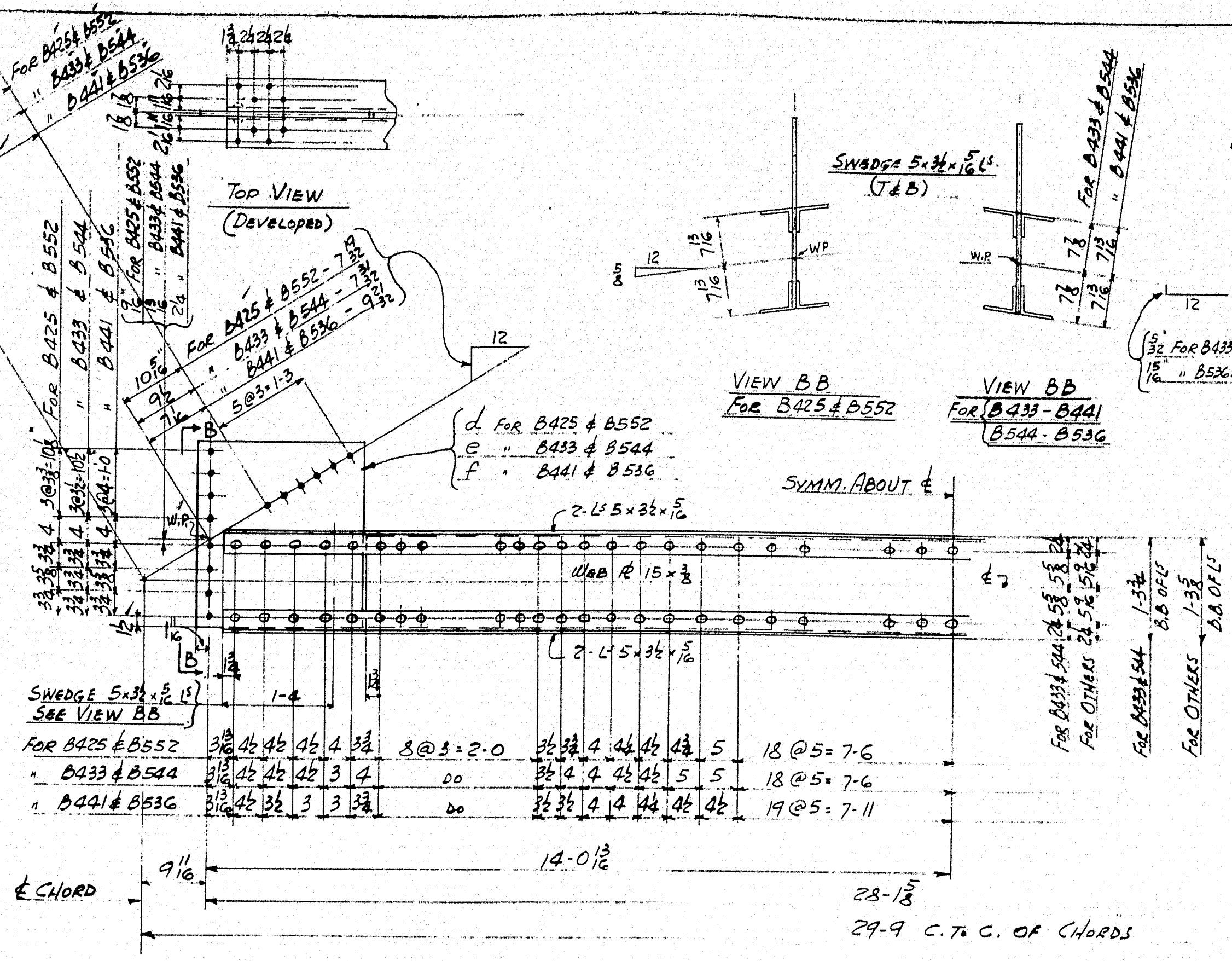
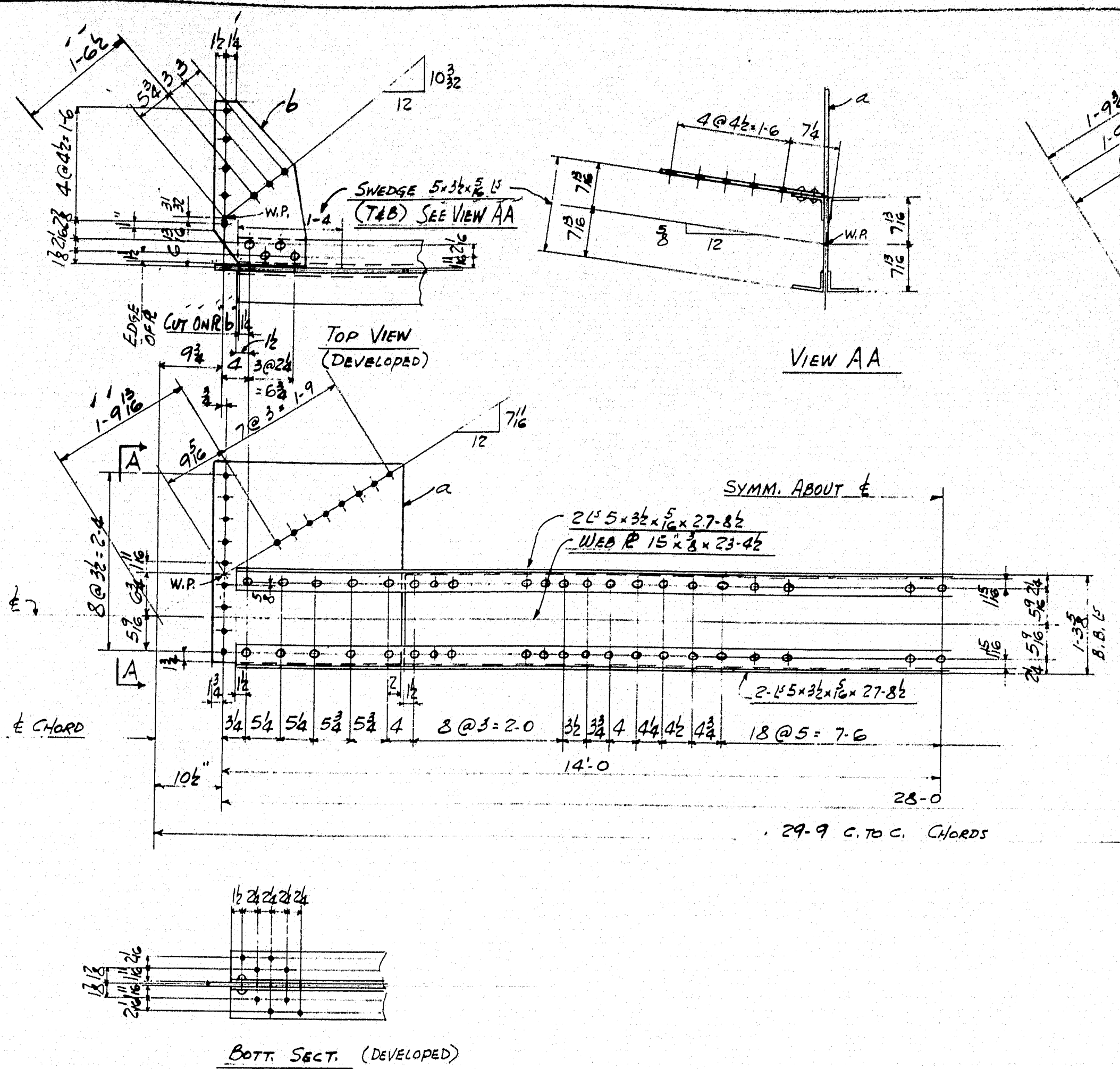
STEUTS (TOP CHORD)

RIVETS 3/8" DIAM. OPEN HOLES 1/2" DIAM. UNLESS OTHERWISE NOTED

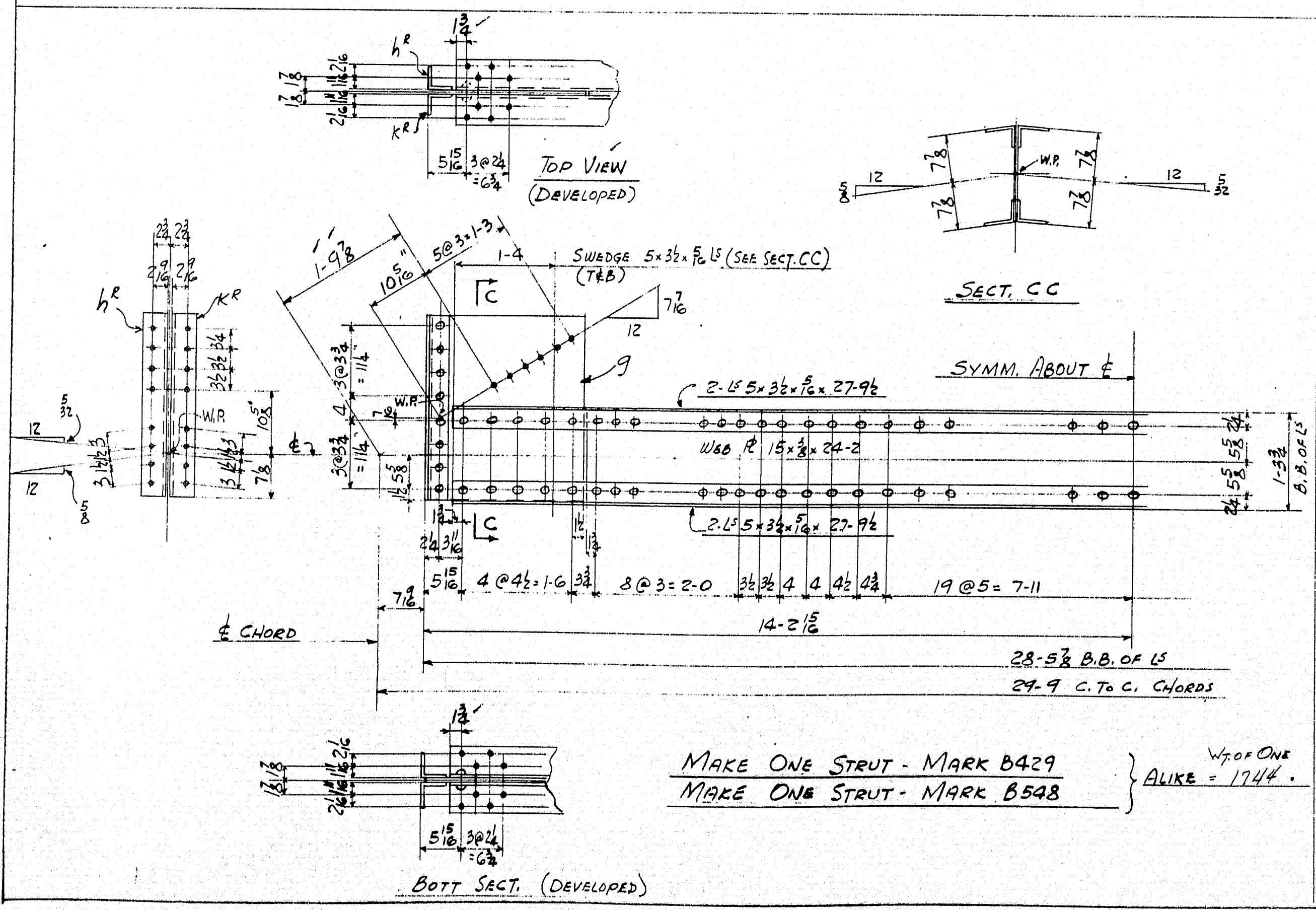
HARRIS STRUCTURAL STEEL CO.
610 FORTH AVE., N. Y.

REVISIONS

DATE 12-29-49
DRAWN BY C2
CHECKED BY ET
CONTRACT No. 2378 SHEET No. 159



Slip	Req'd						MADE UP OF		REMARKS		QTY	WEIGHT	CUTS
No	No	MARK	No	R	MARK	SIZE	LENGTH						
4	1	B421											
5	1	B556											
			8			L 5.34 x 1.6	27.86			9.418-107	192.9	-	
			2			Web R 15 x 3	27.86			9.419-53	89.5	-	
			4	a		R 32 x 3	2.5			9.423-5	39.5	-	
			4	b		R 13 x 3	2.18			do	15.1	-	33
			316			3/8 RIVS					114	-	
4	1	B425											
5	1	B552											
4	1	B433											
5	1	B544											
4	1	B441											
5	1	B536											
			24			L 5.34 x 1.6	27.96	SWEDGE 2 ENDS	9.418-107		580.3	-	
			2			Web R 15 x 3	24.3	For B425 & B552	9.419-52		92.8	-	
			2			do	24.48	" B433 & B544	do		93.3	-	
			2			do	24.10	" B441 & B536	9.419-51		95.0	-	
			4	d		R 24 x 3	2.46	For B425 & B552	9.423-5		29.4	-	
			4	e		R 23 x 3	2.5	" B433 & B544			29.3	-	
			4	f		R 21 x 3	2.68	" B441 & B536			26.9	-	
			932			3/8 RIVS					336	-	
4	1	B429											
5	1	B548											
			8			L 5.34 x 1.6	27.96	SWEDGE 2 ENDS	9.418-107		193.4	-	
			2			Web R 15 x 3	24.2		9.419-52		92.5	-	
			4	g		R 25 x 3	2.76		9.423-5		31.4	-	
			4	h		L 4 x 3 x 3	2.56				9.0	-	
			4	k		do	2.56				9.0	-	
			340			3/8 RIVS					122	-	
												</	



MAKE ONE STRUT - MARK B425
B552
B433
B544
B441
MAKE ONE STRUT - MARK B536

MAKE ONE STRUT - MARK B429
MAKE ONE STRUT - MARK B548

FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50

REVISIONS	DATE
1	12-16-49
2	1-25-50

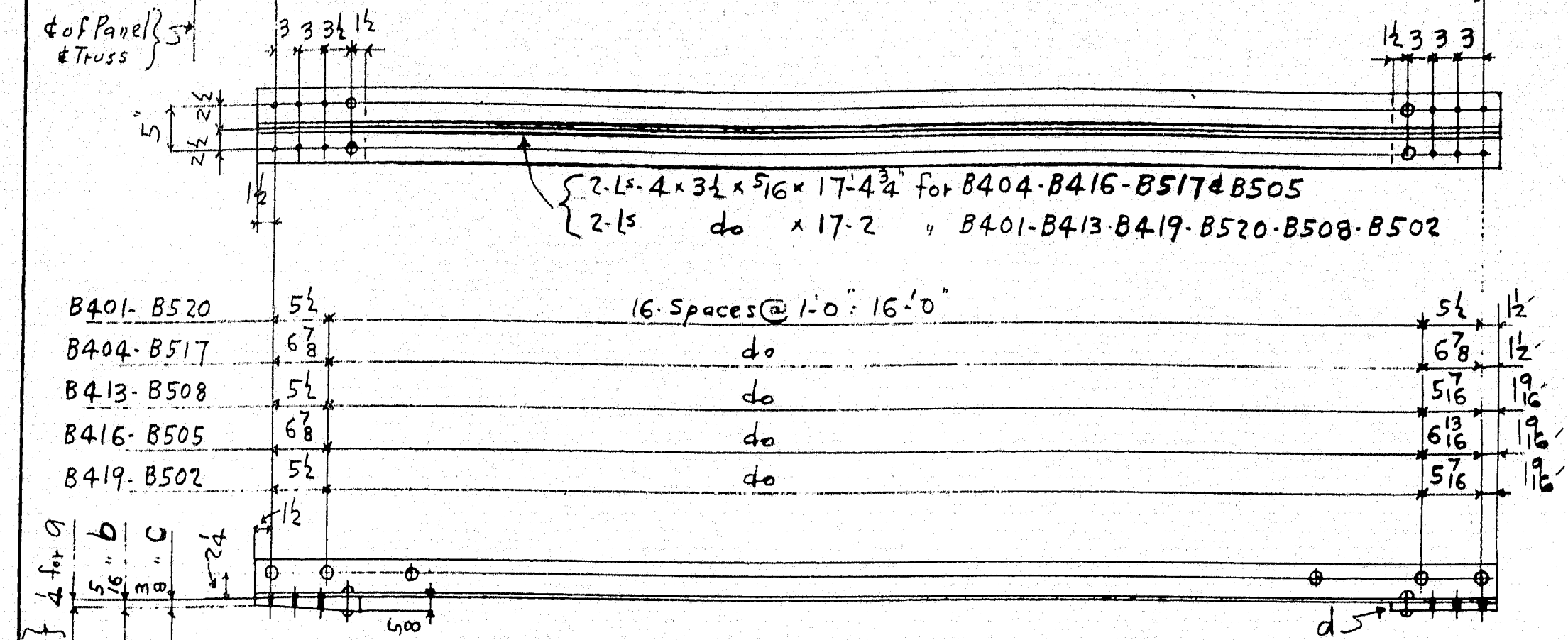
CONTRACT No. C-378 SHEET No. 160

ARROWSIC BRIDGE OVER SASANOVA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

STRUTS (BOTTOM CHORD)

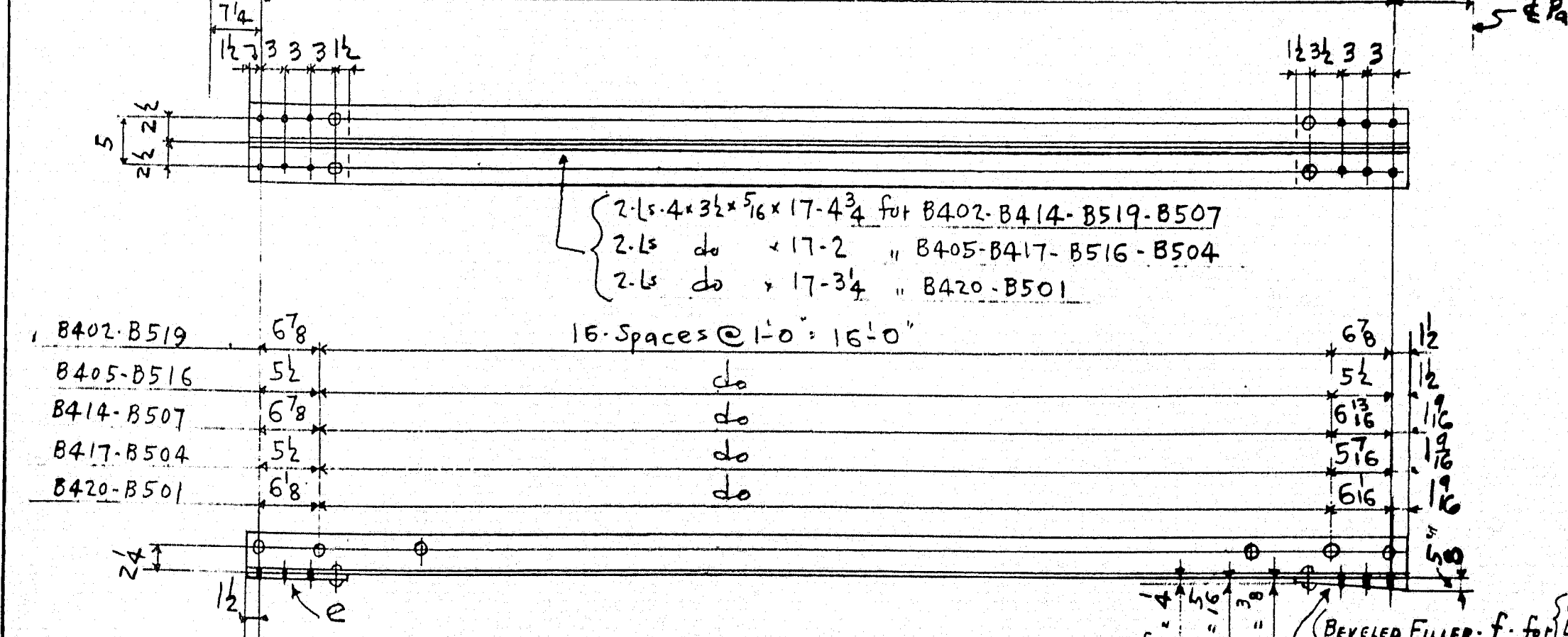
HARRIS STRUCTURAL STEEL CO.
119 FOURTH AVE., N. Y.

B401-B404	19'-5 1/2"
B520-B517	19'-5 1/2"
B413-B416	19'-5 1/2"
B508-B505	19'-5 1/2"
B419-B502	19'-5 1/2"
B401-B520	16'-11"
B404-B517	17'-1 3/4"
B413-B508	16'-11 1/2"
B416-B505	17'-1 1/2"
B419-B502	16'-10 1/2"



MAKE 2-BRACES-MARK B401	ALIKE Wt OF ONE = 296
" 2- " " B520	"
" 2- " " B404	ALIKE 300
" 2- " " B517	"
" ONE " " B413	ALIKE 297
" ONE " " B508	"
" ONE " " B416	ALIKE 302
" ONE " " B505	"
" ONE " " B419	"
" ONE " " B502	ALIKE Wt OF ONE = 299

B402-B405	19'-5 1/2"
B519-B516	19'-5 1/2"
B414-B417	19'-5 1/2"
B507-B504	19'-5 1/2"
B420-B501	19'-5 1/2"
B402-B519	17'-1 3/4"
B405-B516	16'-11"
B414-B507	17'-1 1/2"
B417-B504	16'-10 1/2"
B420-B501	17'-0 3/4"



MAKE 2-BRACES-MARK B402	ALIKE Wt OF ONE = 307
" 2- " " B519	"
" 2- " " B405	ALIKE 303
" 2- " " B516	"
" ONE " " B414	ALIKE 308
" ONE " " B507	"
" ONE " " B417	ALIKE 305
" ONE " " B504	"
" ONE " " B420	ALIKE Wt OF ONE = 307
" ONE " " B501	"

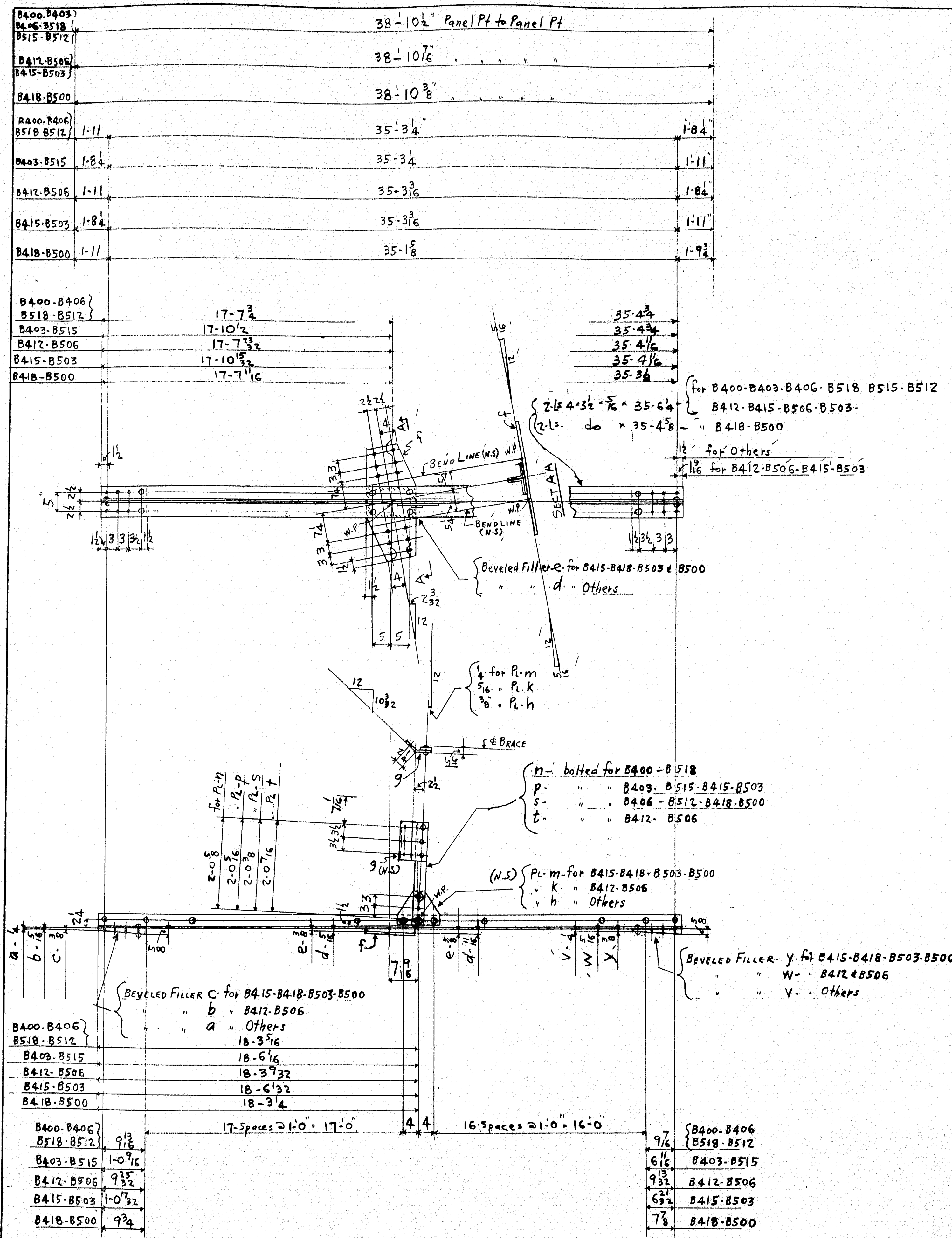
REQD	MADE UP OF	
No MARK	No PC MK	SIZE LENGTH REMARKS ORD WEIGHT
2 B401		
2 B520		
1 B413		
1 B508	16	16x3 1/2 x 5/16 17-2 109-9 2115
1 B419		
1 B502		
2 B404		
2 B517		
1 B416	12	16x3 1/2 x 5/16 17-4 109-9 1608
1 B505		
8 a	16	16x8x5/8 1-0 119-19 141 42
2 b	16	16x8x5/8 1-0 119-19 35 9
4 c	16	16x8x5/8 1-0 119-19 71 14
14 d	16	16x8x5/8 1-0 119-19 143
322		Rivets 7/8"
2 B402		
2 B519		
1 B414	12	16x3 1/2 x 5/16 17-4 109-9 1608
1 B507		
1 B420	4	16x3 1/2 x 5/16 17-3 109-9 532
1 B501		
2 B405		
2 B516		
1 B417	12	16x3 1/2 x 5/16 17-2 109-9 1587
1 B504		
14 e	16	16x8x5/8 1-0 119-19 238
8 f	16	16x8x5/8 1-0 119-19 141 42
2 g	16	16x8x5/8 1-0 119-19 35 9
4 h	16	16x8x5/8 1-0 119-19 71 14
322		Rivets 7/8"
		BEVELED
		Gross Wt 8557
		Net Wt 130
		Net Wt 8427
		Paint 33
		Total Wt 8460

ARROWSIC BRIDGE OVER SABANOA RIVER
ARROWSIC - WOOLWICH
PED. AND PROJ. No. 8-184 (2)
CONTRACT No. 2

BRACES: B401-B402-B404-B405-B413
B414-B416-B417-B419-B420
B501-B502-B504-B505-B507
B508-B516-B517-B519-B520

NOTES ON SPECIFICATIONS, MATERIAL,
PAINTING, FINISHING, DRILLING, REAMING, ETC.
SEE SHEET X-60

REVISED	DATE	BY
1	12-20-49	
2		
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REQUIRED LIST

MAKE ONE BRACE MARK B400

ONE	B406	ALIKE WT. OF ONE = 676
ONE	B512	
ONE	B518	
2	B403	ALIKE WT. OF ONE = 676
ONE	B515	
ONE	B412	ALIKE WT. OF ONE = 676
ONE	B506	
ONE	B415	ALIKE WT. OF ONE = 673
ONE	B503	
ONE	B418	ALIKE WT. OF ONE = 672
ONE	B500	

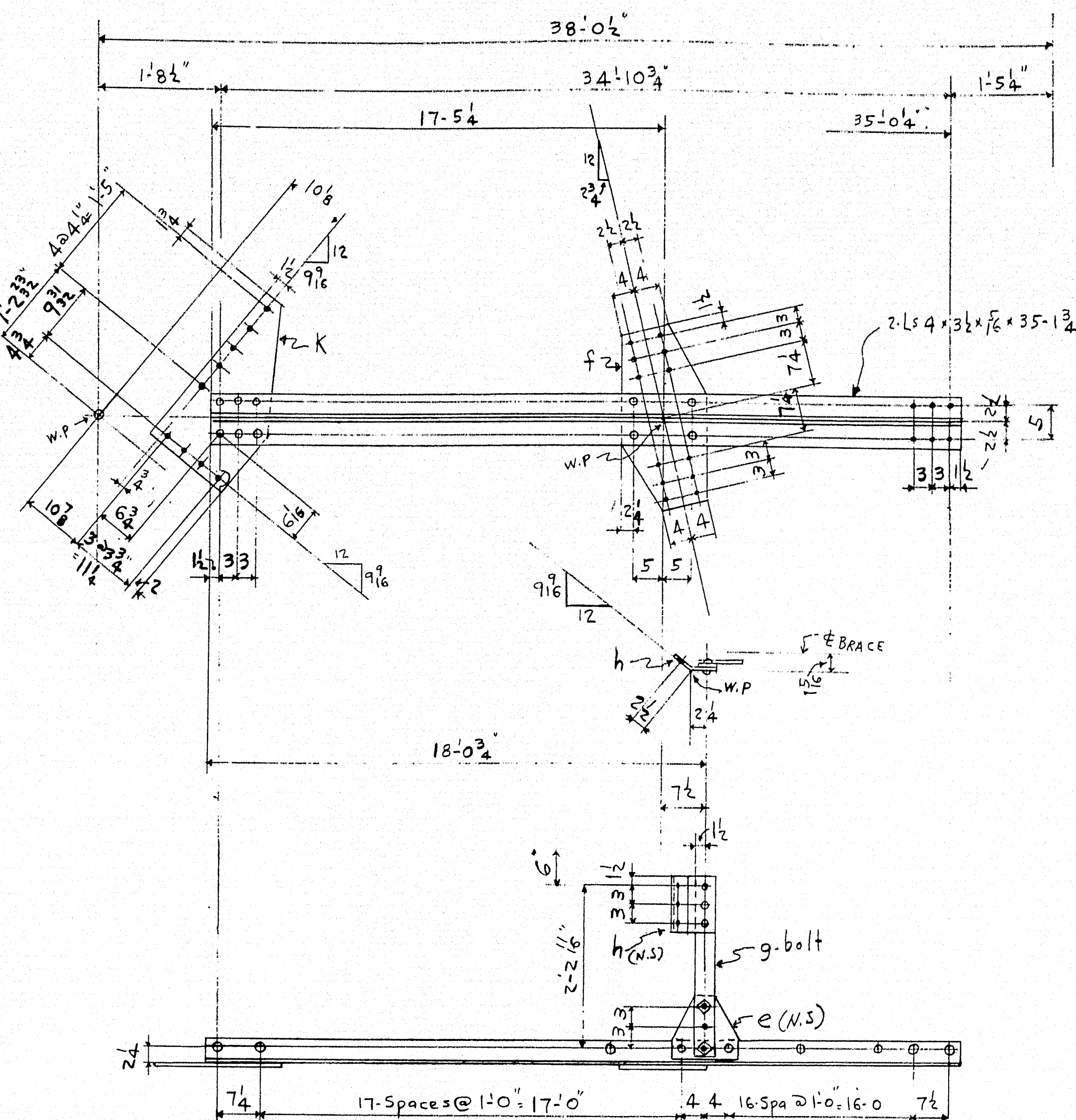
REQ'D		MADE UP OF						
No	MARK	No	PC MK	SIZE	LENGTH	REMARKS	ORD	WEIGHT
1	B400					} ALIKE		
1	B406							
1	B512							
1	B518					} ALIKE		
2	B403							
2	B515	24		5/4x3 1/2x 5/16	35'-6 1/2		109-9	6564
1	B412					} ALIKE		
1	B506							
1	B415							
1	B503					} ALIKE		
1	B418							
1	B500	4		5/4x3 1/2x 5/16	35'-4 3/8		9-418-95	1090
		8	a	PL 8x 5/8	1-0 1/2	beveled	119-19	141
		2	b	PL 8x 5/8	1-0 1/2	beveled	}	35
		4	c	PL 8x 5/8	1-0 1/2	beveled		
		10	d	PL 8x 1 1/16	1-1	beveled	119-16	202
		4	e	PL 8x 5/8	1-1	beveled	119-16	73
		14	f	PL 13x 5/8	2-6 1/2	bent	9-423-5	590
		14	g	PL 10x 5/8	0-7 1/2	bent	9-423-6	94
		8	h	PL 9x 5/8	0-11			70
		2	k	PL 9x 5/8	0-11			18
		4	m	PL 9x 5/8	0-11			35
		2	n	Bar 3x 3/8	2-3 3/8		114-11	18
		6	p	Bar 3x 3/8	2-3 3/8			52
		4	s	Bar 3x 3/8	2-3 3/8			35
		2	t	Bar 3x 3/8	2-3 3/8			18
		8	v	PL 8x 5/8	1-0 1/2	beveled	119-9	141
		2	w	PL 8x 5/8	1-0 1/2	beveled		35
		4	y	PL 8x 5/8	1-0 1/2	beveled		71
		672		RIVETS 7/8"				242
		28		BOLTS 7/8" x 2 1/2"				15
							Gross WT	9610
							WT. DEP.	198
							Net WT	9412
							PAINT	38
							TOTAL WT	9450

ARROWSIC BRIDGE OVER SASANQA RIVER
 ARROWSIC: WOOLWICH
 FED. AID PROJ. No. S-184 (2)
 CONTRACT No. 2
 BRACES: B400-B403-B406-B412-B415-B418
 B500-B503-B506-B512-B515-B518

FOR NOTES ON SPECIFICATIONS, MATERIAL, FINISHING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET 2100

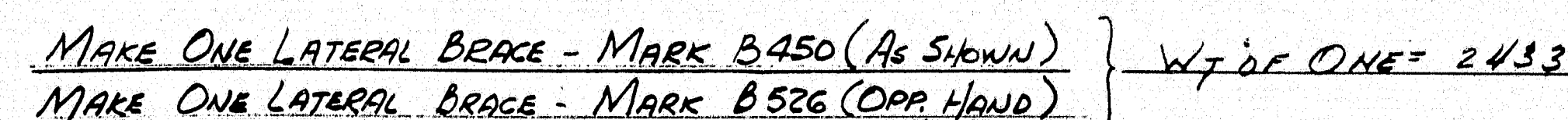
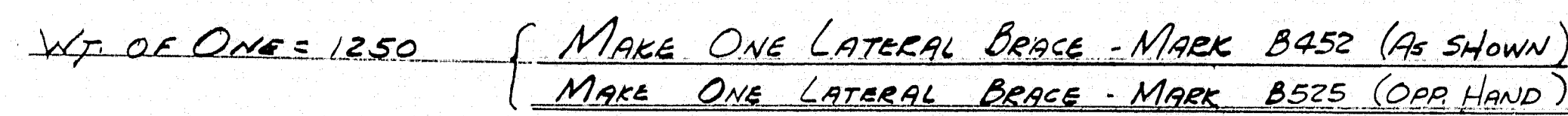
REVISIONS

DATE: 12-19-49
 DRAWN BY: W.P.
 CHECKED BY: W.P.
 CONTRACT No. C378 SHEET No. 162



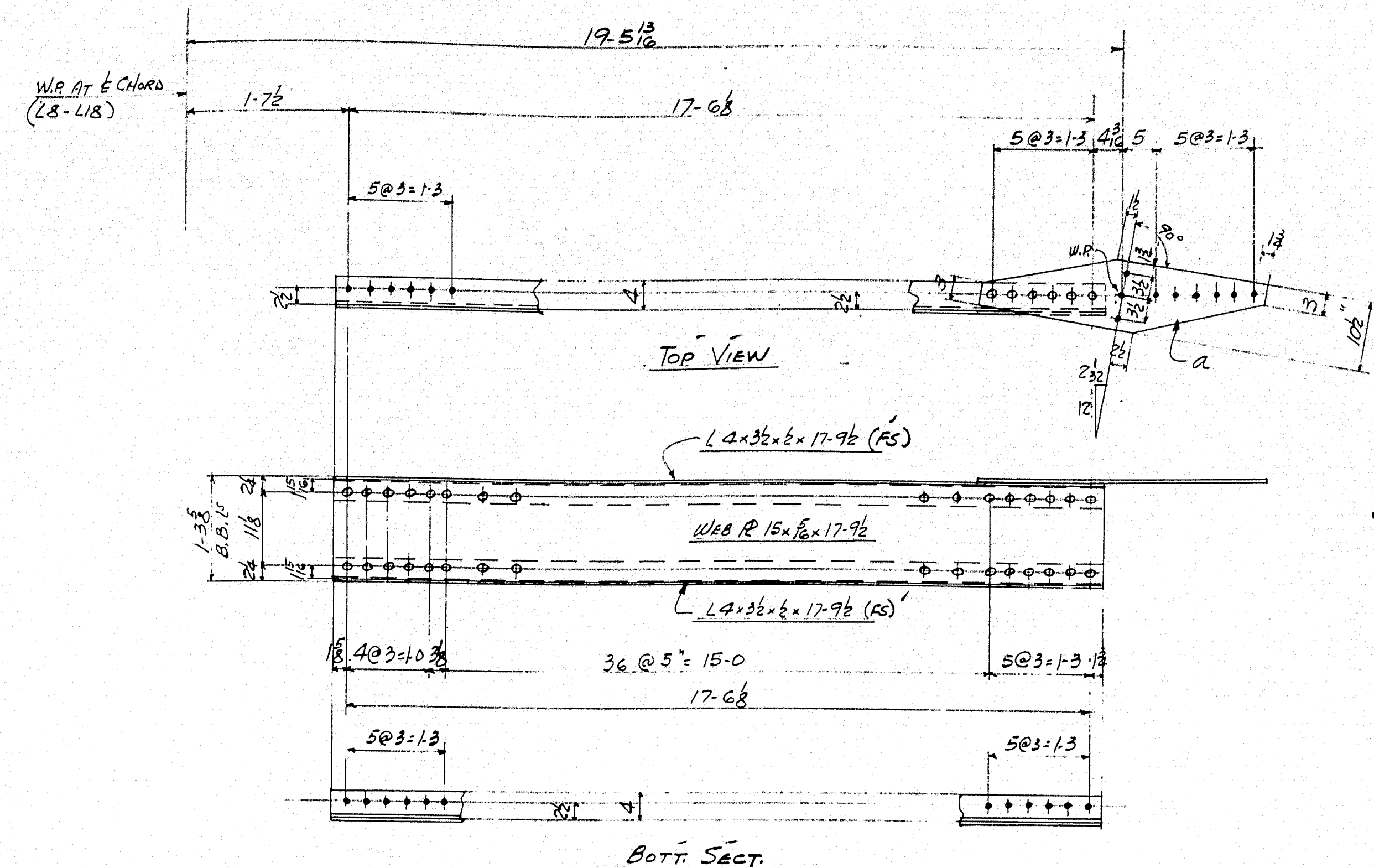
MAKE ONE BRACE - MARK

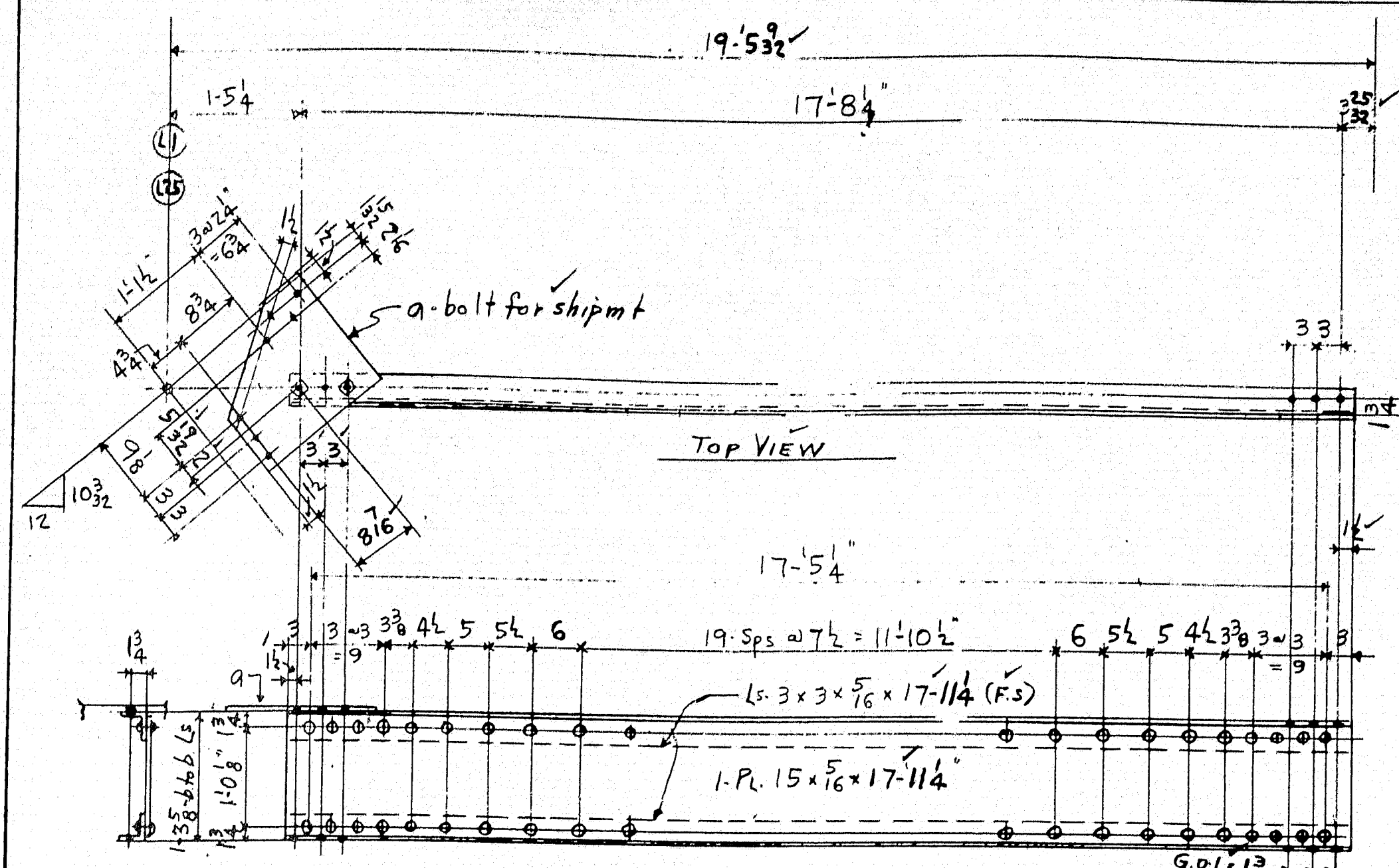
"	ONE	"	"	B 625	} ALIKE	} <u>WT. OF ONE = 637.</u>
"	ONE	"	"	B 644		
"	ONE	"	"	B 622	} ALIKE	
"	ONE	"	"	B 647		
"	ONE	"	"	B 619	} ALIKE	
"	ONE	"	"	B 650		



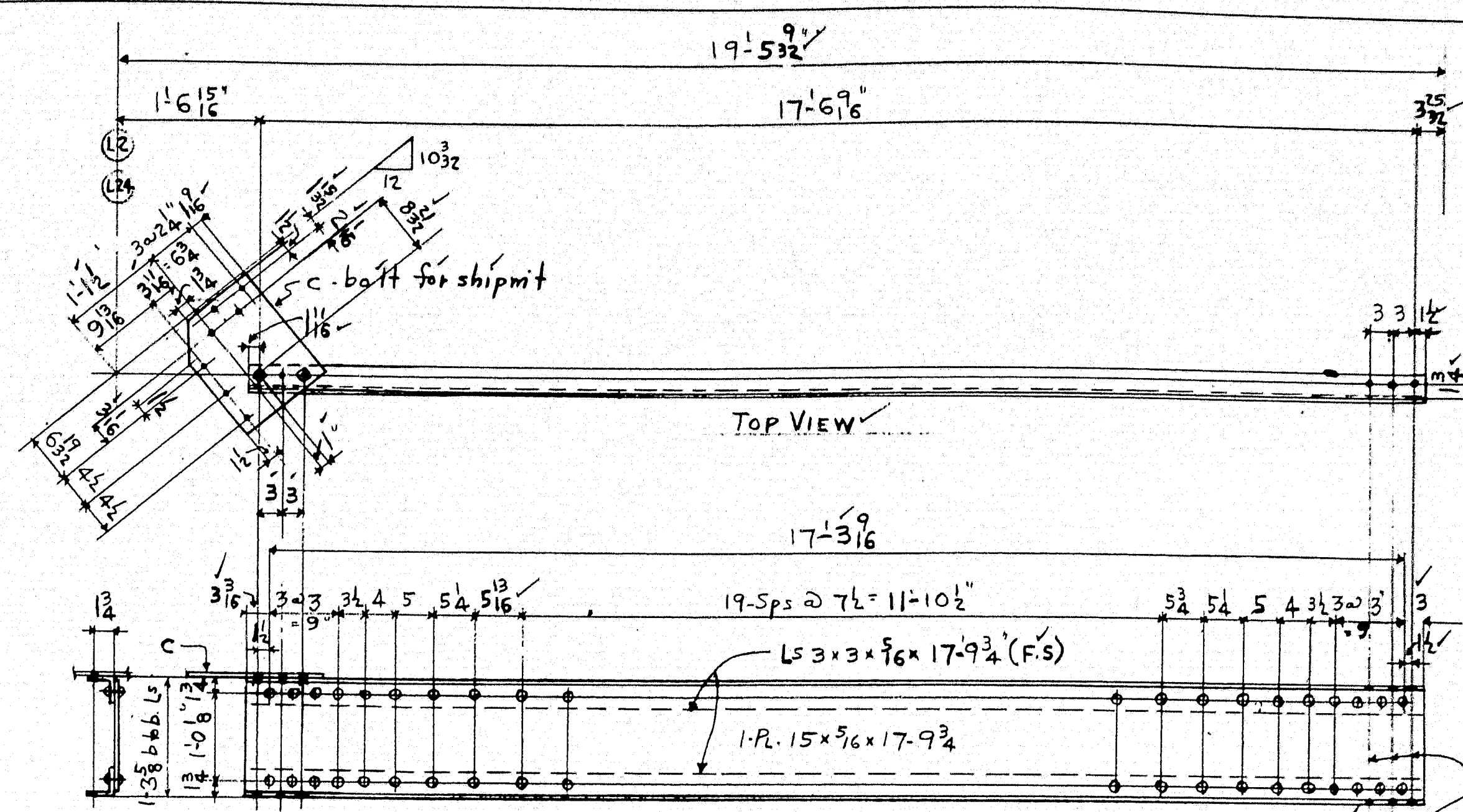
ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

NUTS <u>3</u>	DIAM. <u>1/8"</u>	OPEN HOLES <u>1/8"</u>	DIAM. <u>1/8"</u>	HARRIS STRUCTURAL STEEL CO. 609 FOURTH AVE., N. Y.
UNLESS OTHERWISE NOTED				
REVISIONS				
			DRAWN BY <u>CZ</u>	DATE <u>1-4-50</u>
			CHECKED BY <u>FT</u>	DATE <u>1-3-50</u>
			CONTRACT No. <u>6378</u>	SHEET No. <u>164</u>

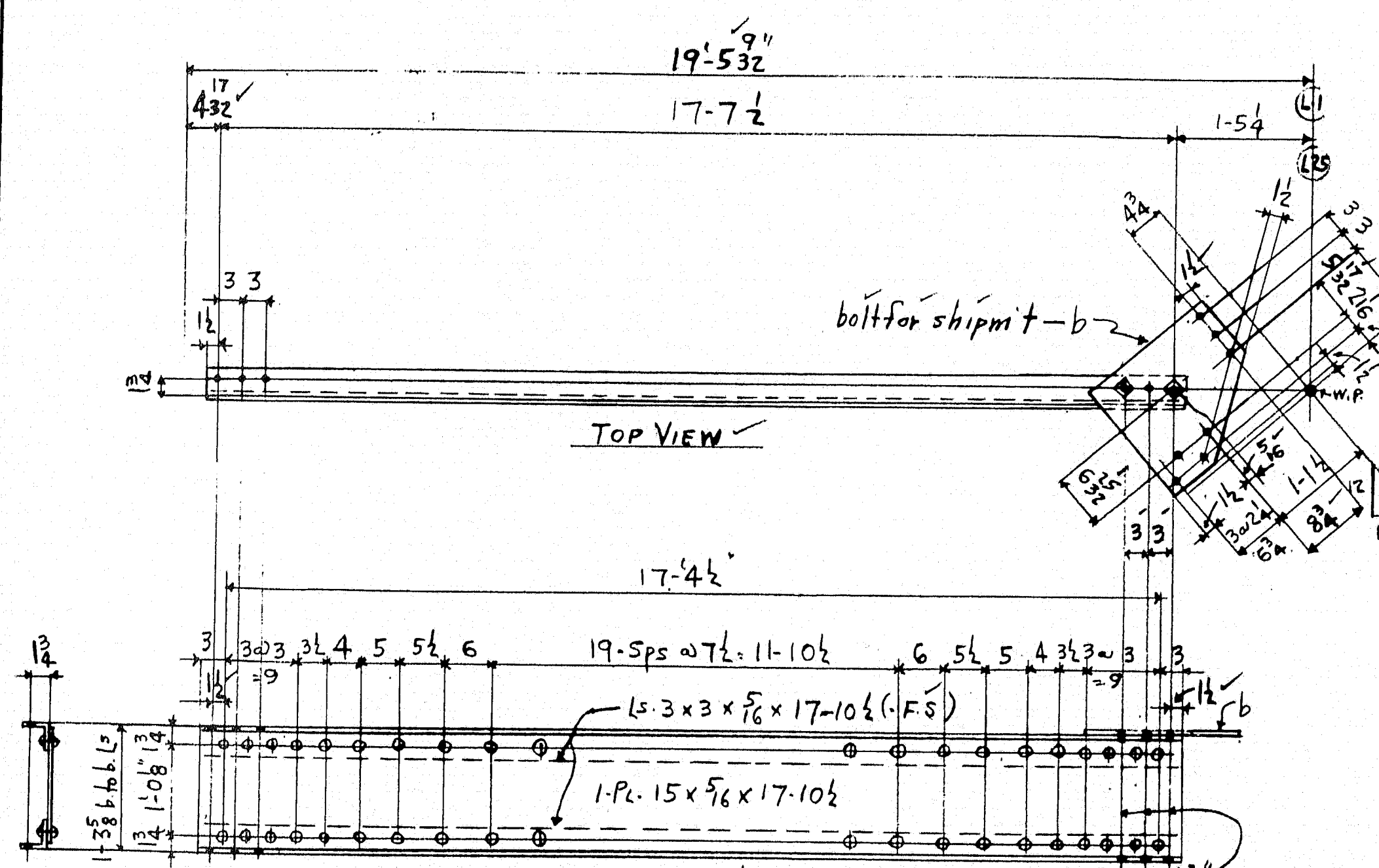




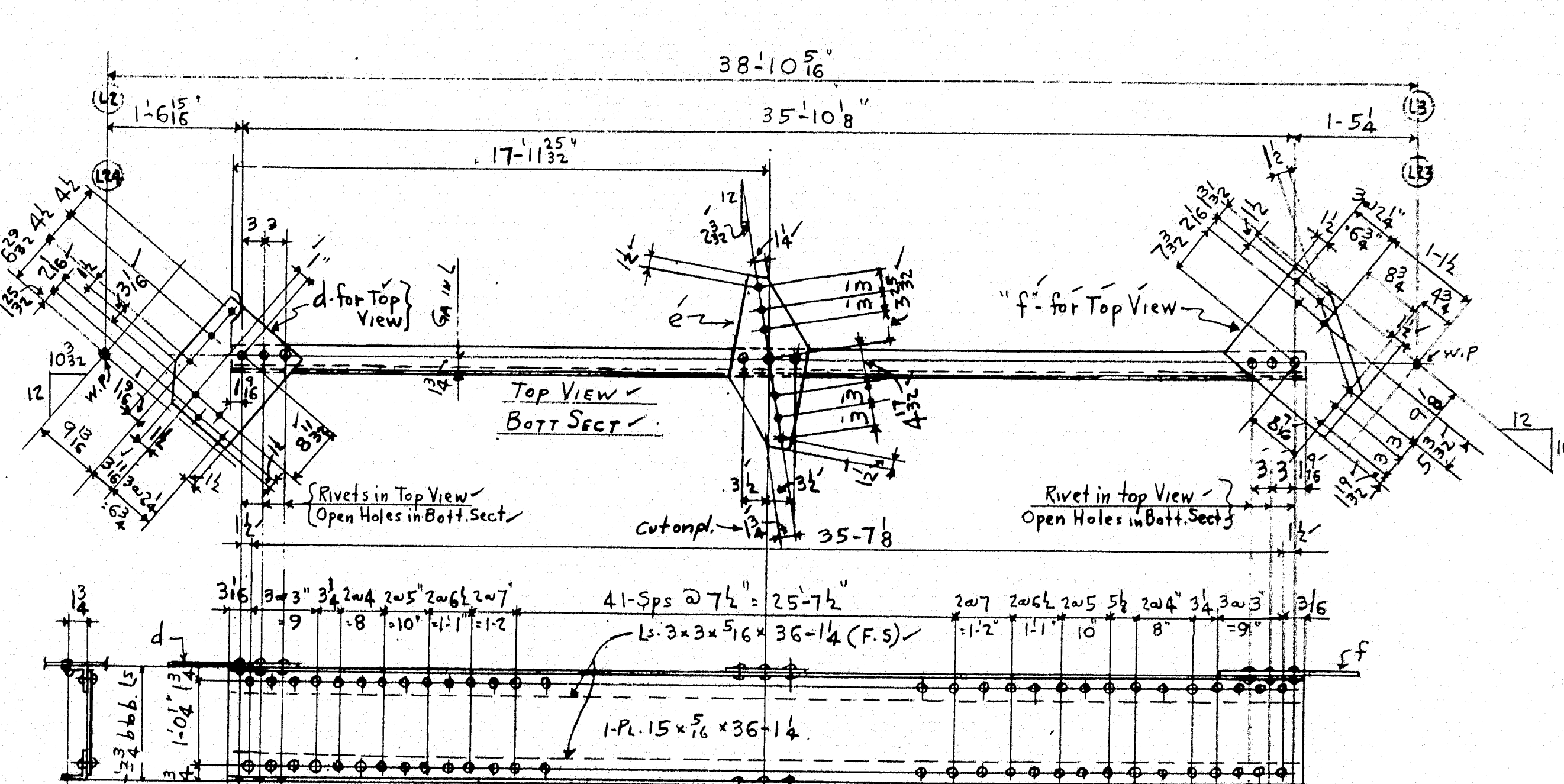
MAKE ONE BRACE - MARK B424 - AS SHOWN
 " ONE " " B555 - OPP HAND } Wt. OF ONE = 541.



MAKE ONE BRACE - MARK B428 - AS SHOWN
 " ONE " " B551 - OPP HAND } Wt. OF ONE = 555.



MAKE ONE BRACE - MARK B427 - AS SHOWN
 " ONE " " B549 - OPP HAND } Wt. OF ONE = 560.



MAKE ONE BRACE - MARK B430 - AS SHOWN
 " ONE " " B546 - OPP HAND } Wt. OF ONE = 1158.

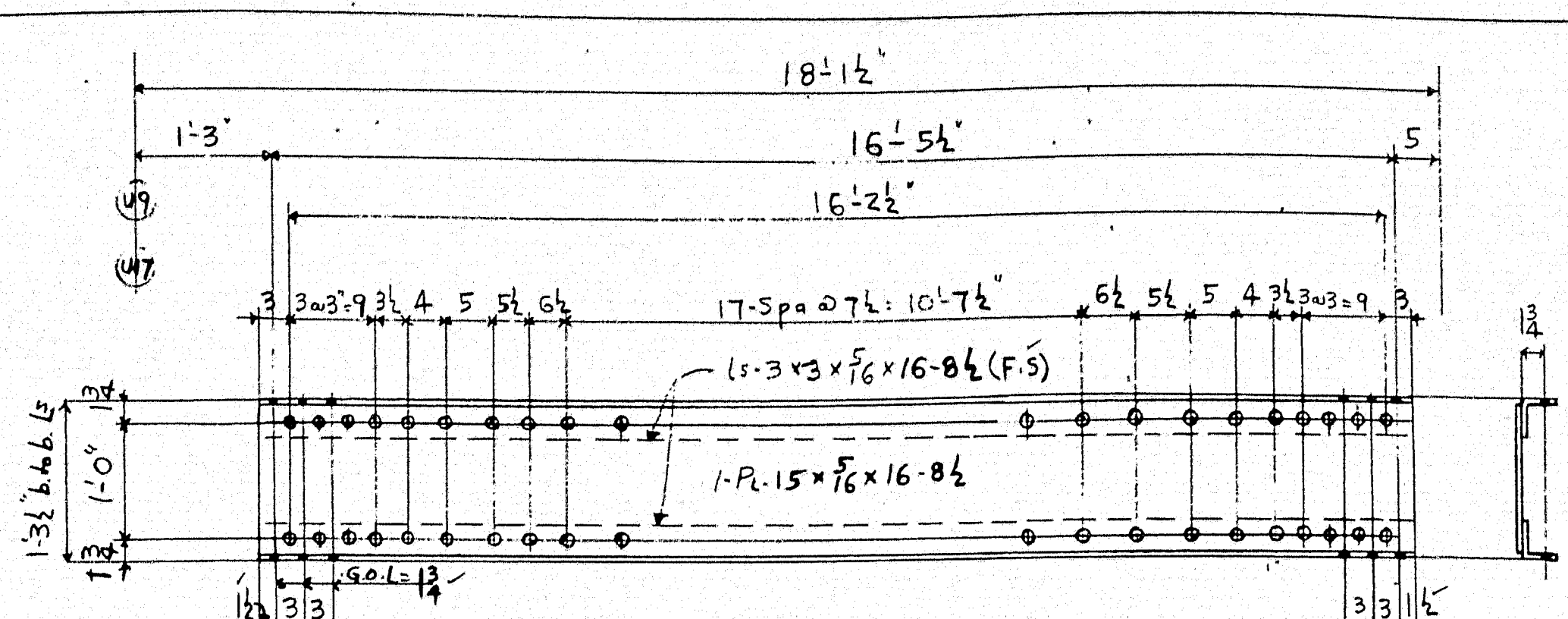
REQD	MADE UP OF						Cuts
	NO	MARK	NO	Pc MK	SIZE	LENGTH	
AS SHOWN	1	B424					
OPP HAND	1	B555					
			4		1/2 x 3 x 5/8	17-11 1/4	9-418-96
			2		Pls 15 x 7/8	17-11 1/4	9-419-57
			2	a	Pls 16 1/2 x 3/8	1-6 1/2	9-423-5
			144		Rivets 7/8"		
			4		Bolts 7/8" x 2 1/2		
AS SHOWN	1	B427					
OPP HAND	1	B549					
			4		1/2 x 3 x 5/8	17-10 1/2	9-418-96
			2		Pls 15 x 7/8	17-10 1/2	9-419-57
			2	b	Pls 16 1/2 x 3/8	1-6 1/2	9-423-5
			144		Rivets 7/8"		
			4		Bolts 7/8" x 2 1/2		
AS SHOWN	1	B428					
OPP HAND	1	B551					
			4		1/2 x 3 x 5/8	17-9 3/4	9-418-96
			2		Pls 15 x 7/8	17-9 3/4	9-419-57
			2	c	Pls 13 1/2 x 3/8	1-5 1/2	11A-4
			144		Rivets 7/8"		
			4		Bolts 7/8" x 2 1/2		
AS SHOWN	1	B430					
OPP HAND	1	B546					
			4		1/2 x 3 x 5/8	36-1 1/4	9-418-96
			2		Pls 15 x 5/8	36-1 1/4	9-419-54
			4	e	Pls 10 x 3/8	1-10	9-423-5
			2	f	Pls 16 1/2 x 3/8	1-6 1/2	
			292		Rivets 7/8"		
			2	d	Pls 13 1/2 x 3/8	1-5 1/2	11A-4
						Gross Wt.	5707.
						Wt. Ded.	61.
						Net Wt.	5646.
						Paint	22.
						TOTAL WT	5668.

ARROWSIC BRIDGE OVER SASANOA RIVER
 ARROWSIC - WOOLWICH
 FED. AID PROJ. No. 8-184 (2)
 CONTRACT No. 2

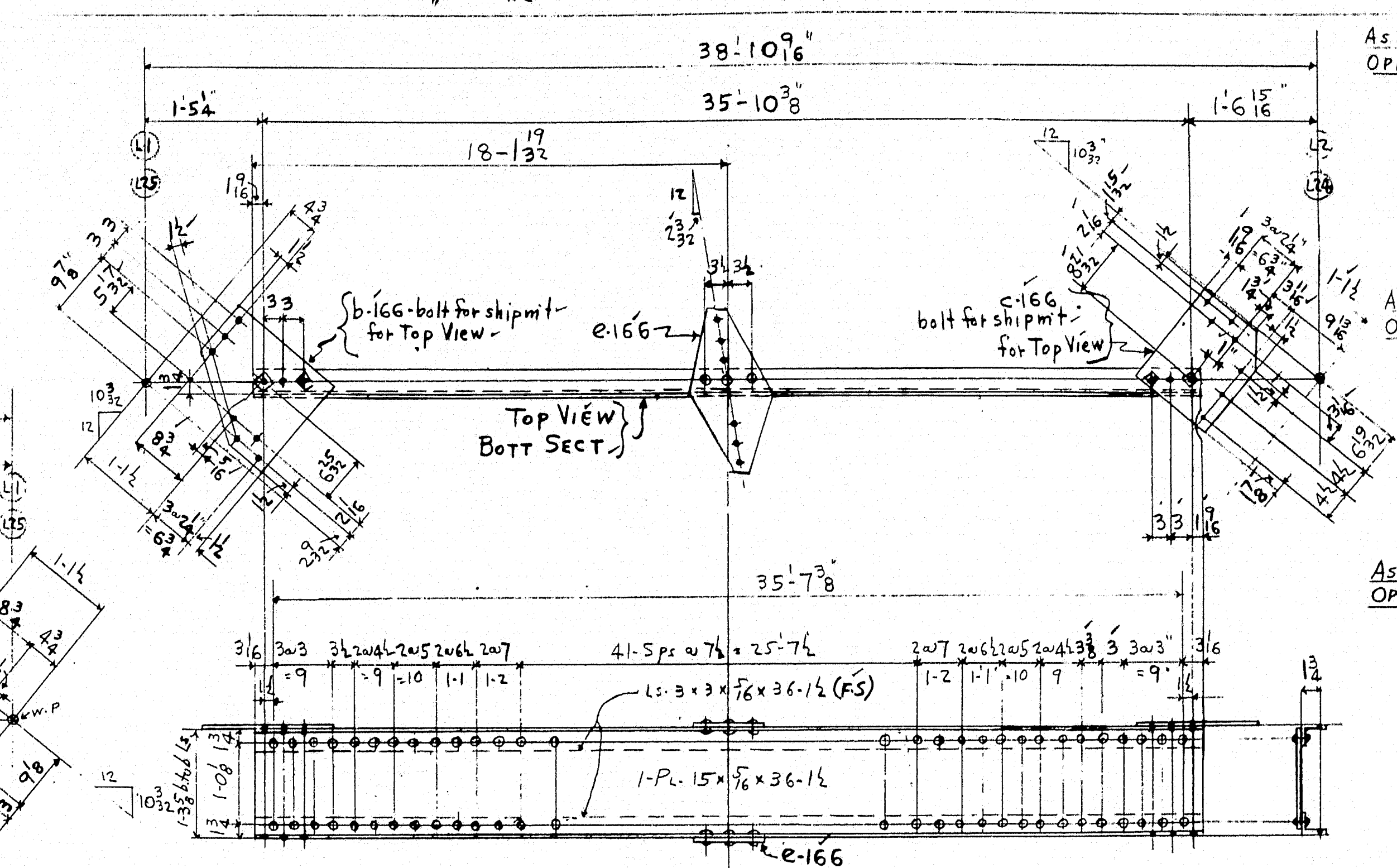
BRACES: B424-B427-B428-B430
 B546-B549-B551-B555

FOR NOTES ON SPECIFICATIONS, MATERIAL,
 PAINTING, PUNCHING, DRILLING, REAMING, ETC.
 SEE SHEET X10

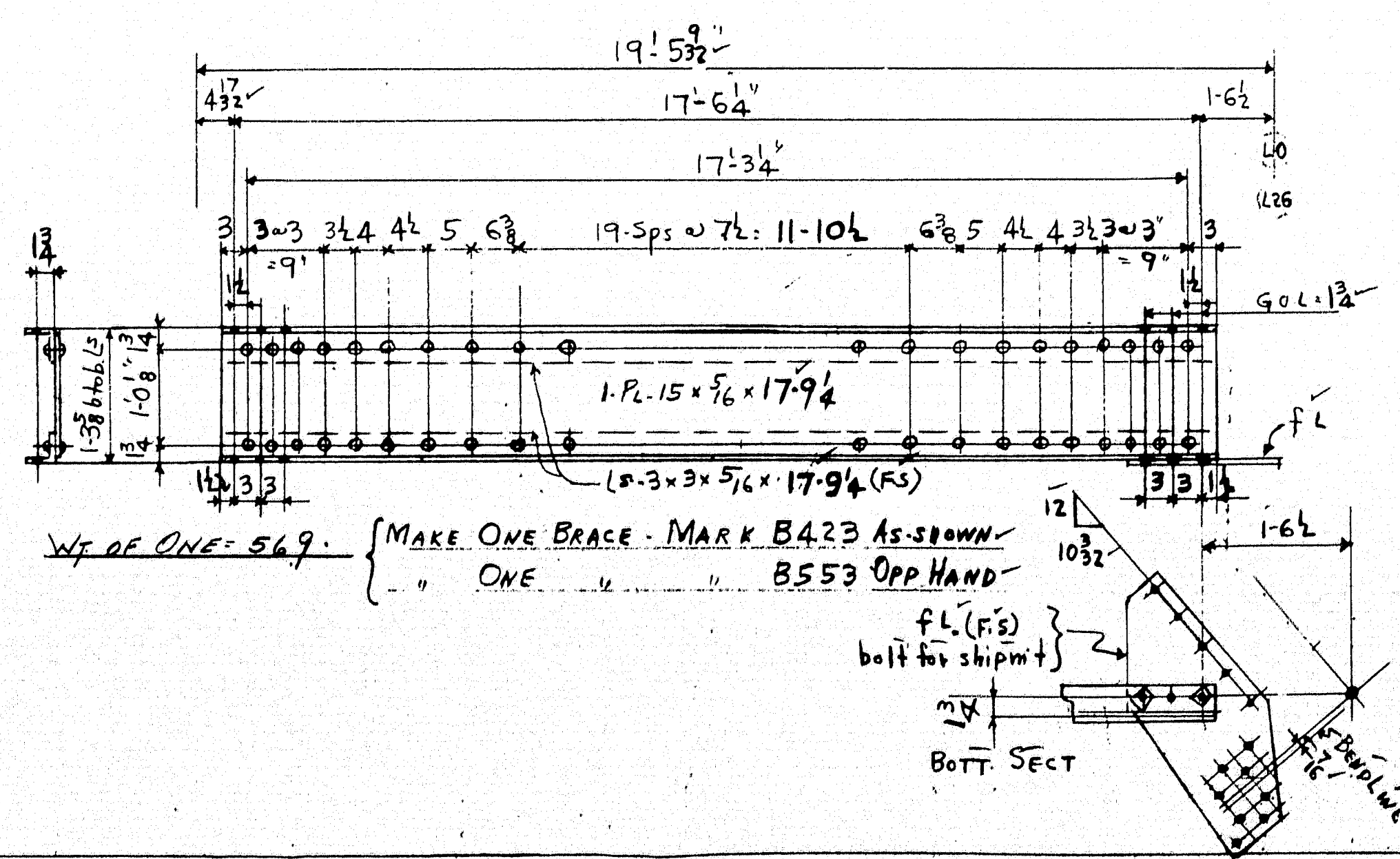
DESIGN	DATE	OPEN FILED	DATE
UNLESS OTHERWISE NOTED			
REVISIONS			
NO.	DATE	BY	REASON
1	1-5-50	N.M.	
2	1-32-50	ET	
CONTRACT No. 8378 SHEET No. 166			



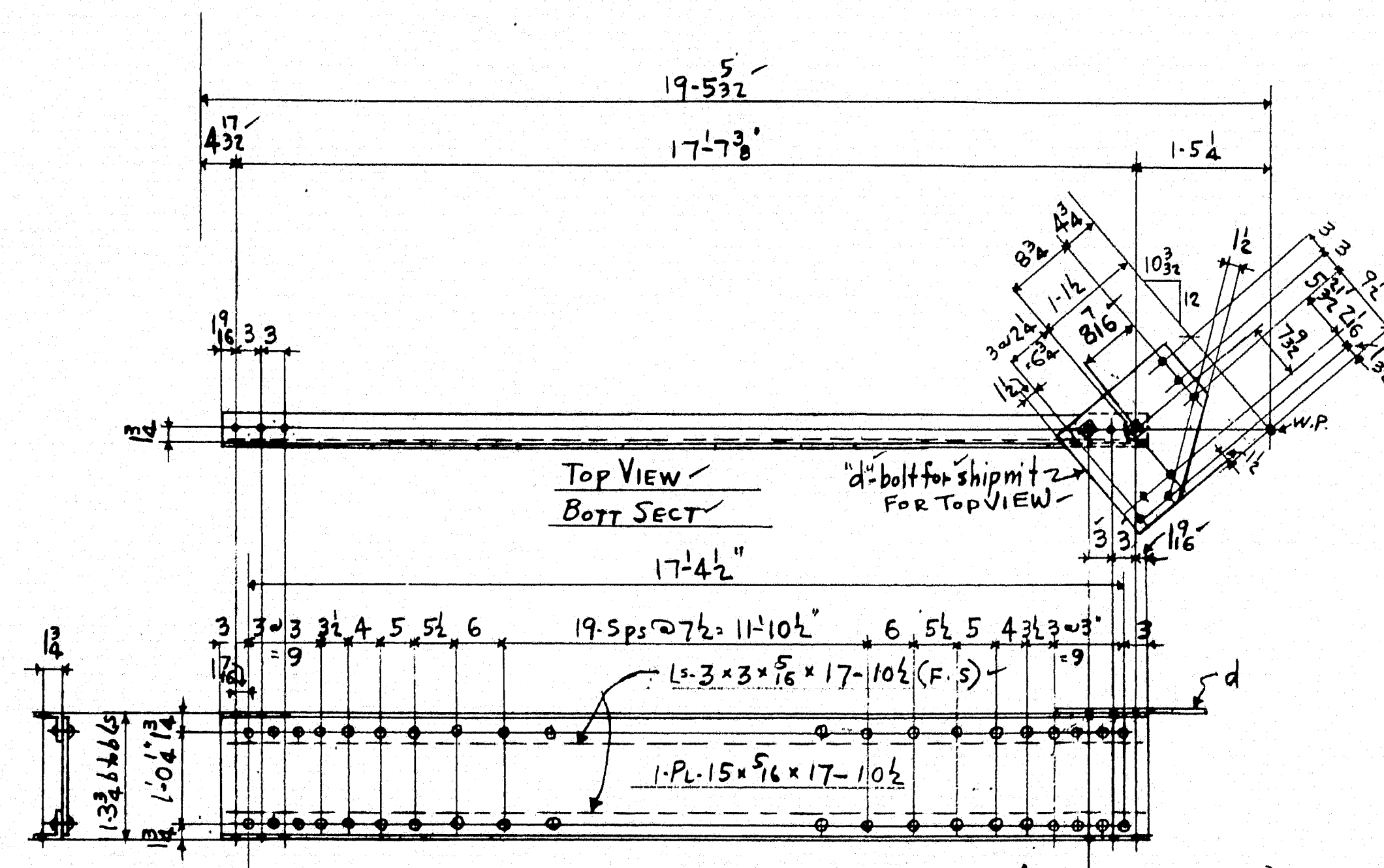
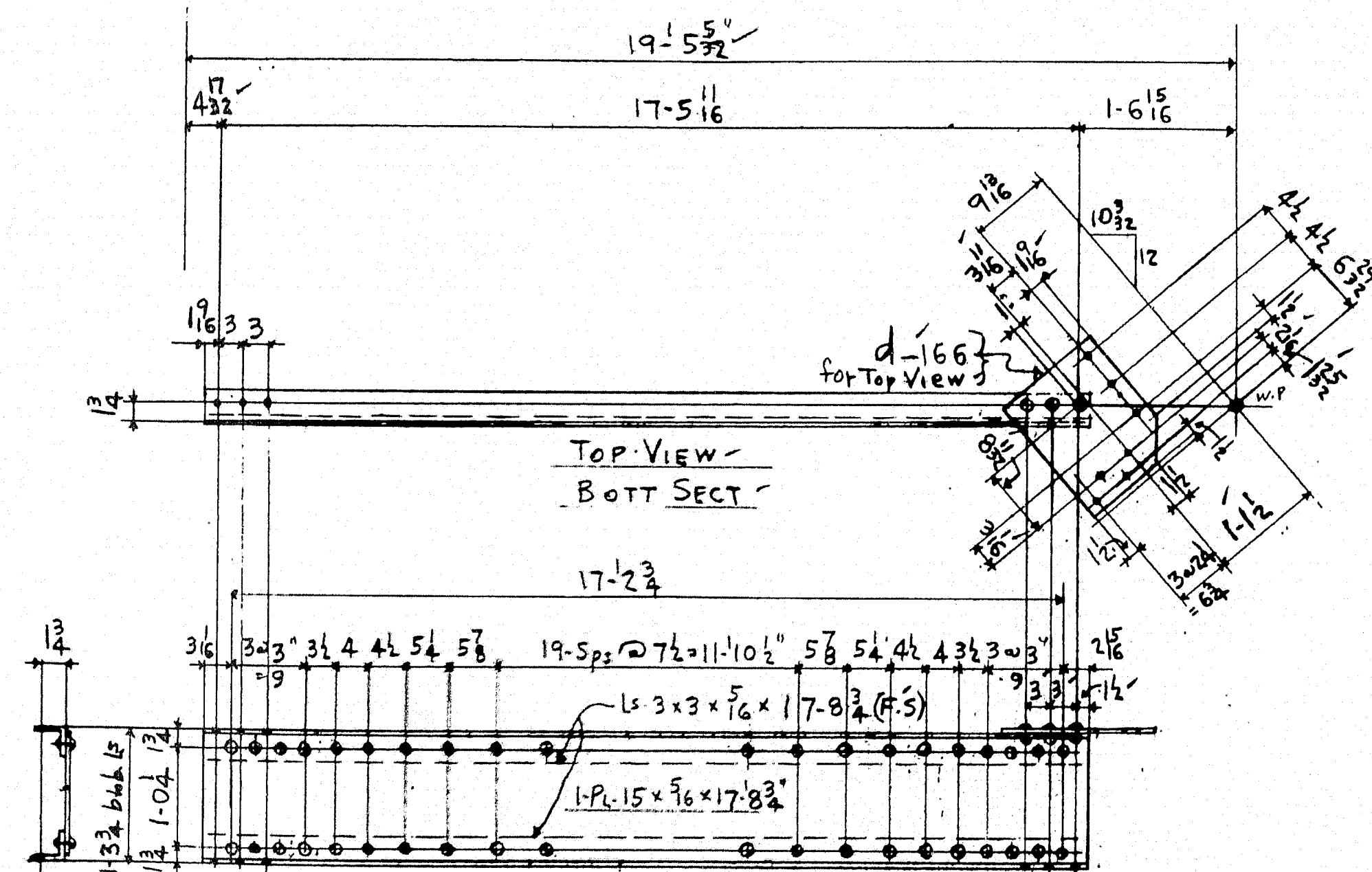
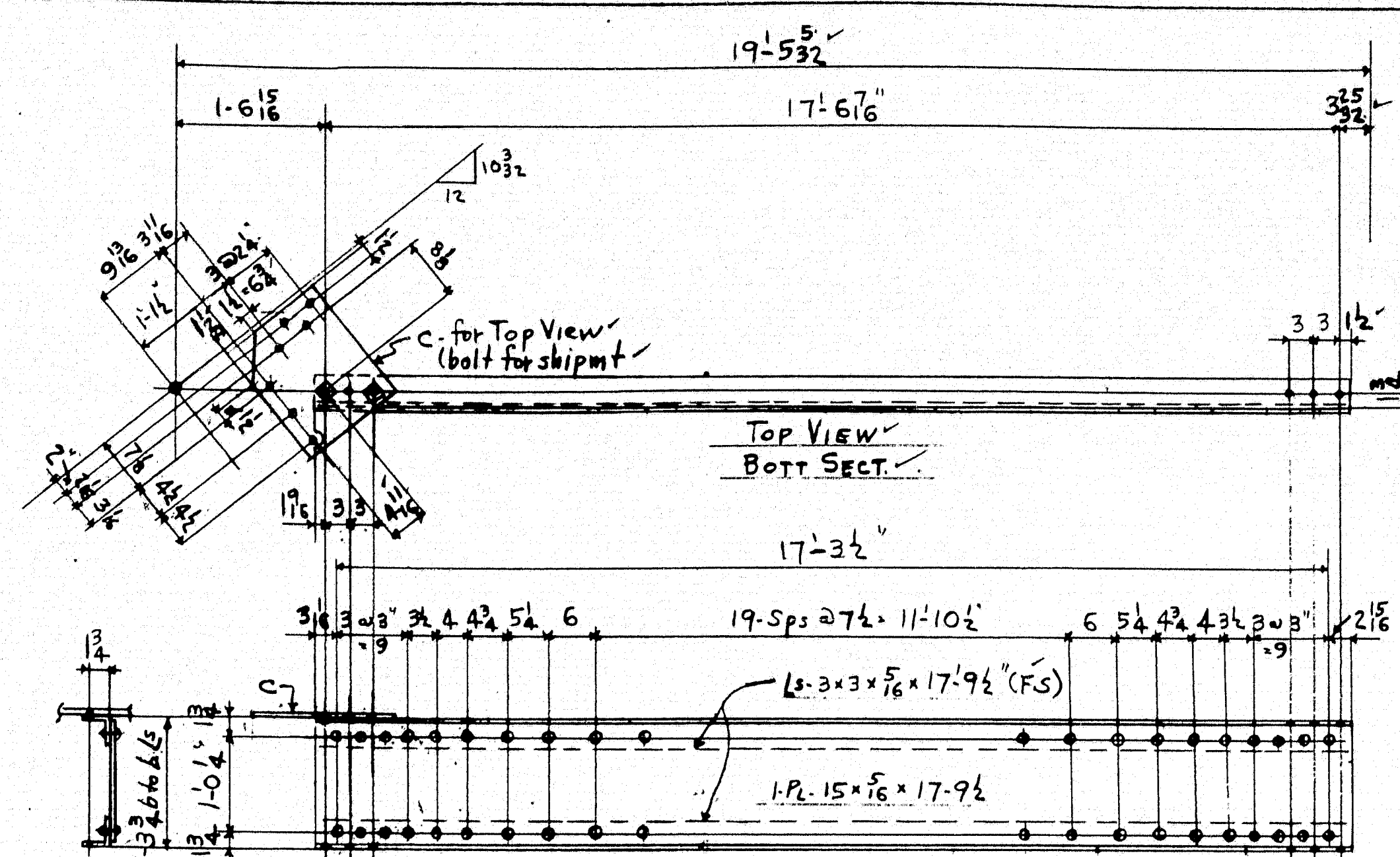
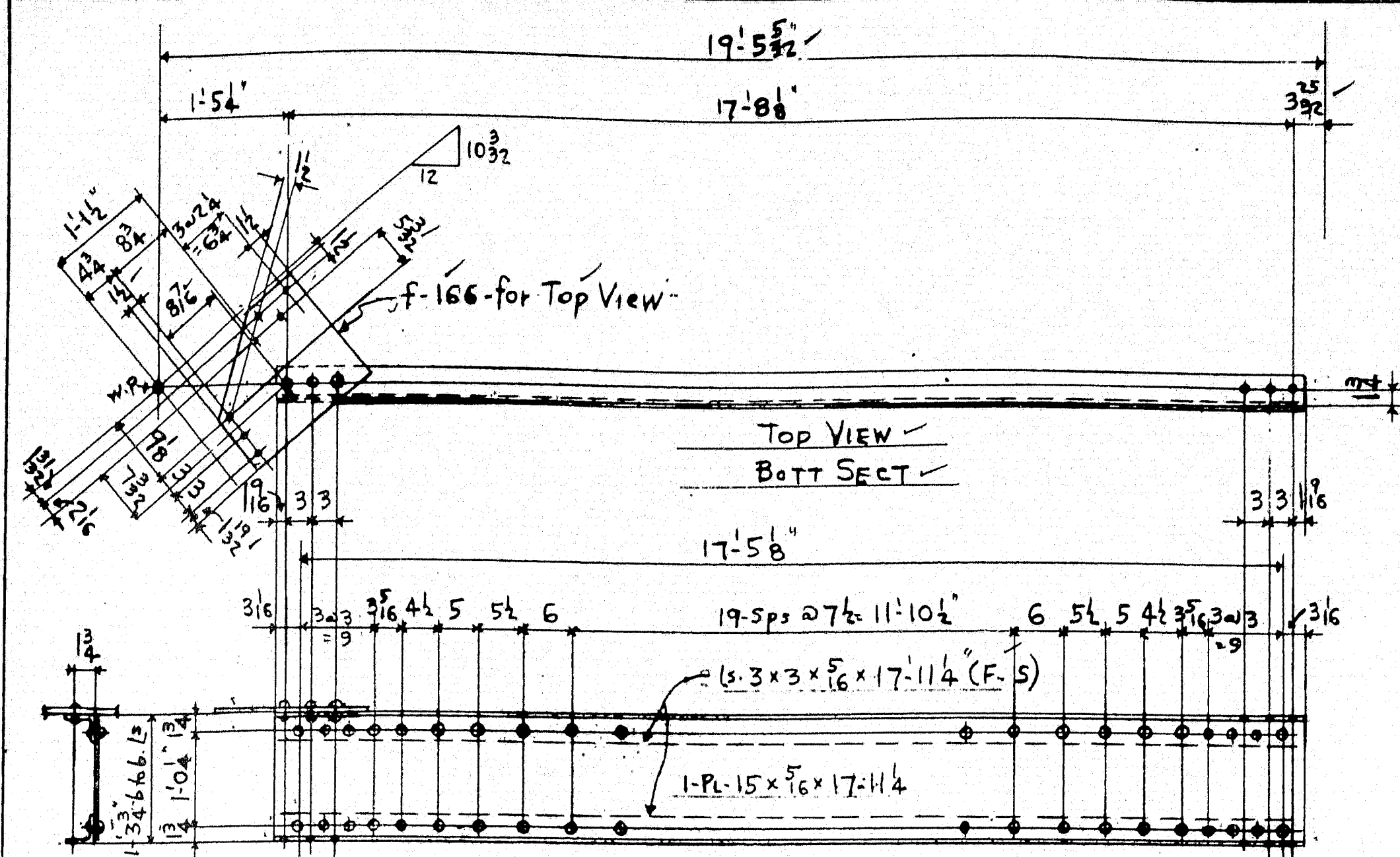
MAKE ONE BRACE-MARK B601 } ALIKE WT. OF ONE = 497.
 " ONE " B642 }



MAKE ONE BRACE - MARK B426 AS SHOWN } WT. OF ONE = 1159.
" ONE " " B550 OPP HAND }



48-179



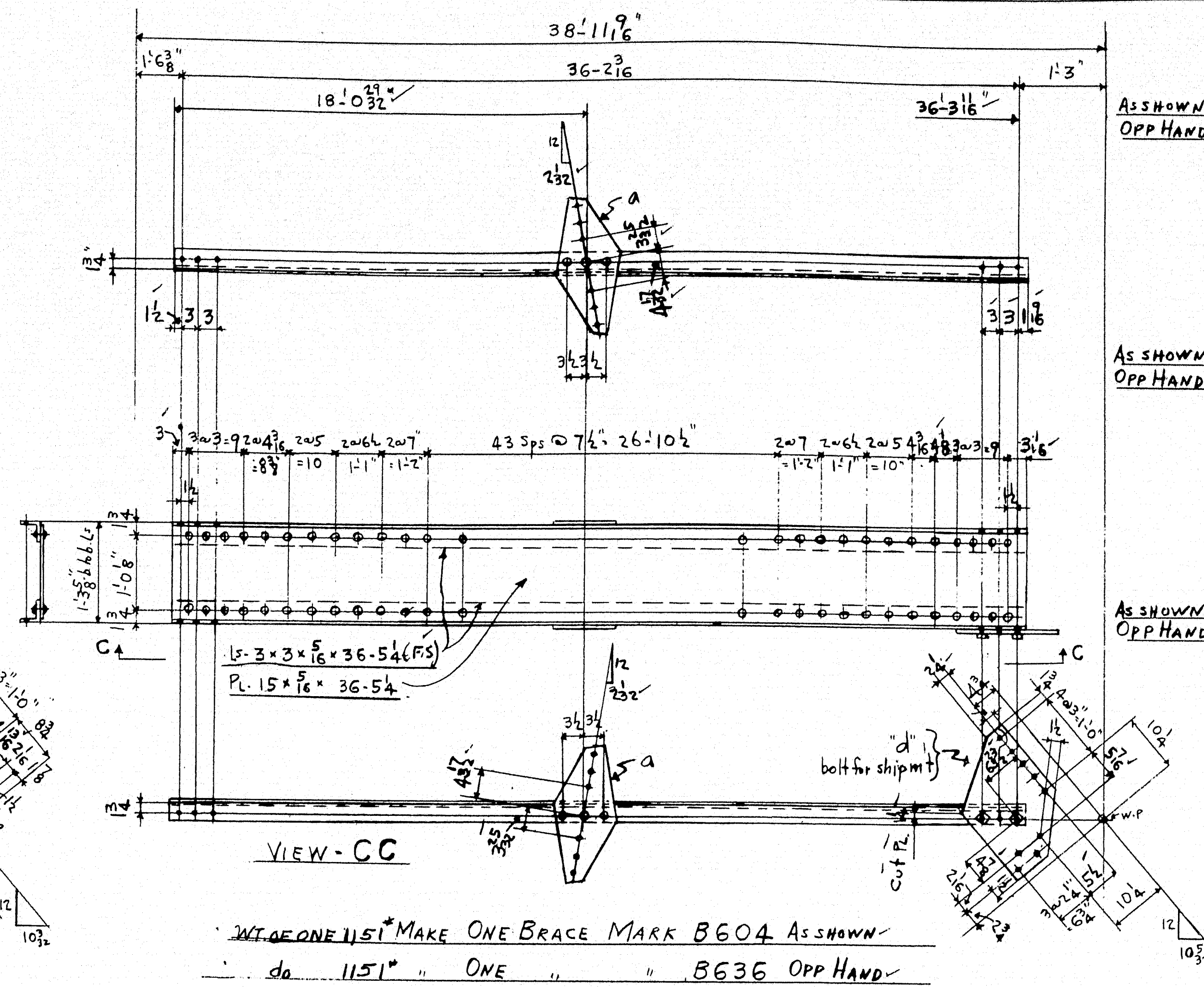
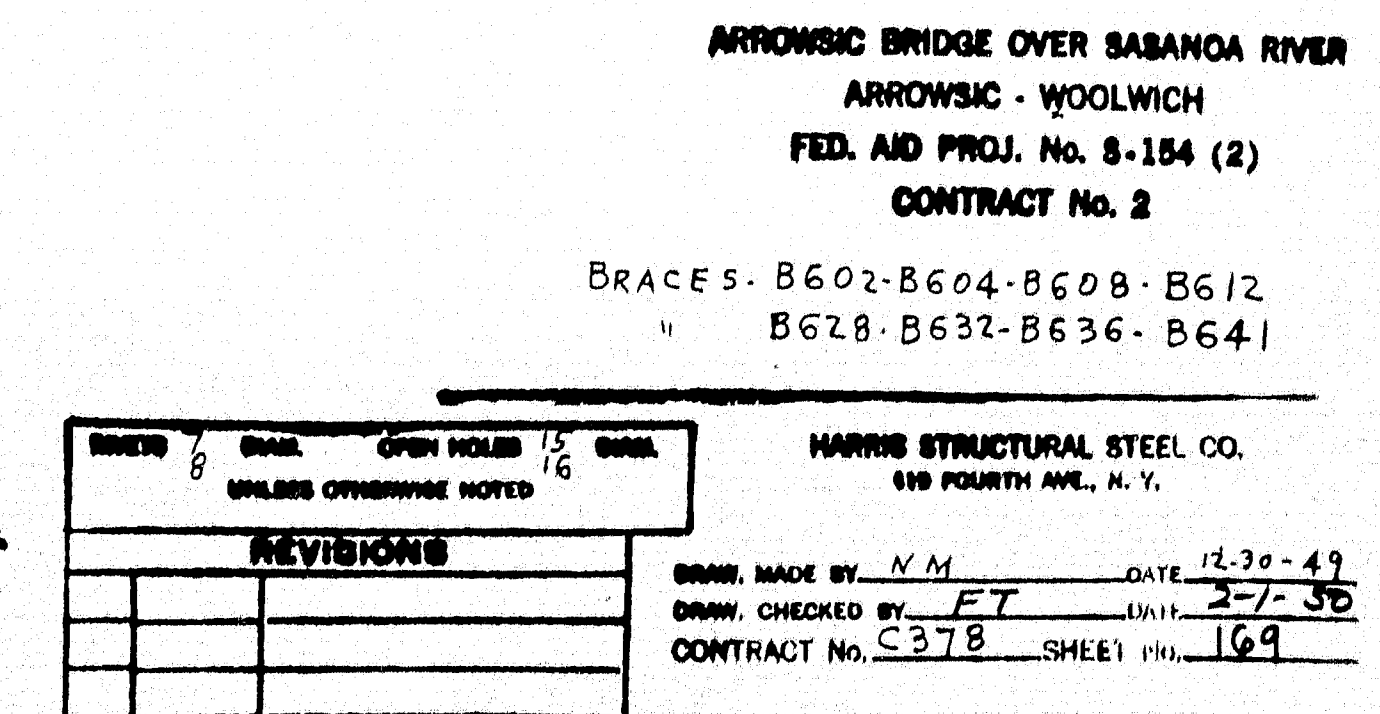
		MADE UP OF								
AS SHOWN	OPP HAND	NO	MARK	NO	PC	SIZE	LENGTH	REMARKS	ORD	WEIGHT
		1	B432							
		1	B547							
		4				5/8 x 3 x 5/8	17'-11 1/4"		9-418-96	438
		2				PL 15 x 5/8	17'-11 1/4"		9-419-57	572
		2				PL 16 x 5/8	1'-6 1/2"	2 PL 16 x 5/8	9-423-5	64
		150				Rivets 7/8"				54
AS SHOWN	OPP HAND	1	B431							
		1	B545							
		4				5/8 x 3 x 5/8	17'-8 3/4"		9-418-96	433
		2				PL 15 x 5/8	17'-8 3/4"		9-419-57	565
		2				PL 16 x 5/8	1'-5 1/2"	2 PL 16 x 5/8	114-4	50
		150				Rivets 7/8"				54
AS SHOWN	OPP HAND	1	B436							
		1	B543							
		4				5/8 x 3 x 5/8	17'-9 1/2"		9-418-96	434
		2				PL 15 x 5/8	17'-9 1/2"		9-419-57	567
		2				PL 16 x 5/8	1'-5"		114-4	49
		144				Rivets 7/8"				52
		4				Bolts 7/8" x 2 1/2"				2
AS SHOWN	OPP HAND	1	B435							
		1	B541							
		4				5/8 x 3 x 5/8	17'-10 1/2"		9-418-96	436
		2				PL 15 x 5/8	17'-10 1/2"		9-419-57	570
		2				PL 16 x 5/8	1'-6 1/2"		9-423-5	66
		144				Rivets 7/8"				52
		4				Bolts 7/8" x 2 1/2"				2
									GROSS WT.	4460
									NET WT.	22
									PAINT	4438
									TOTAL WT.	4456

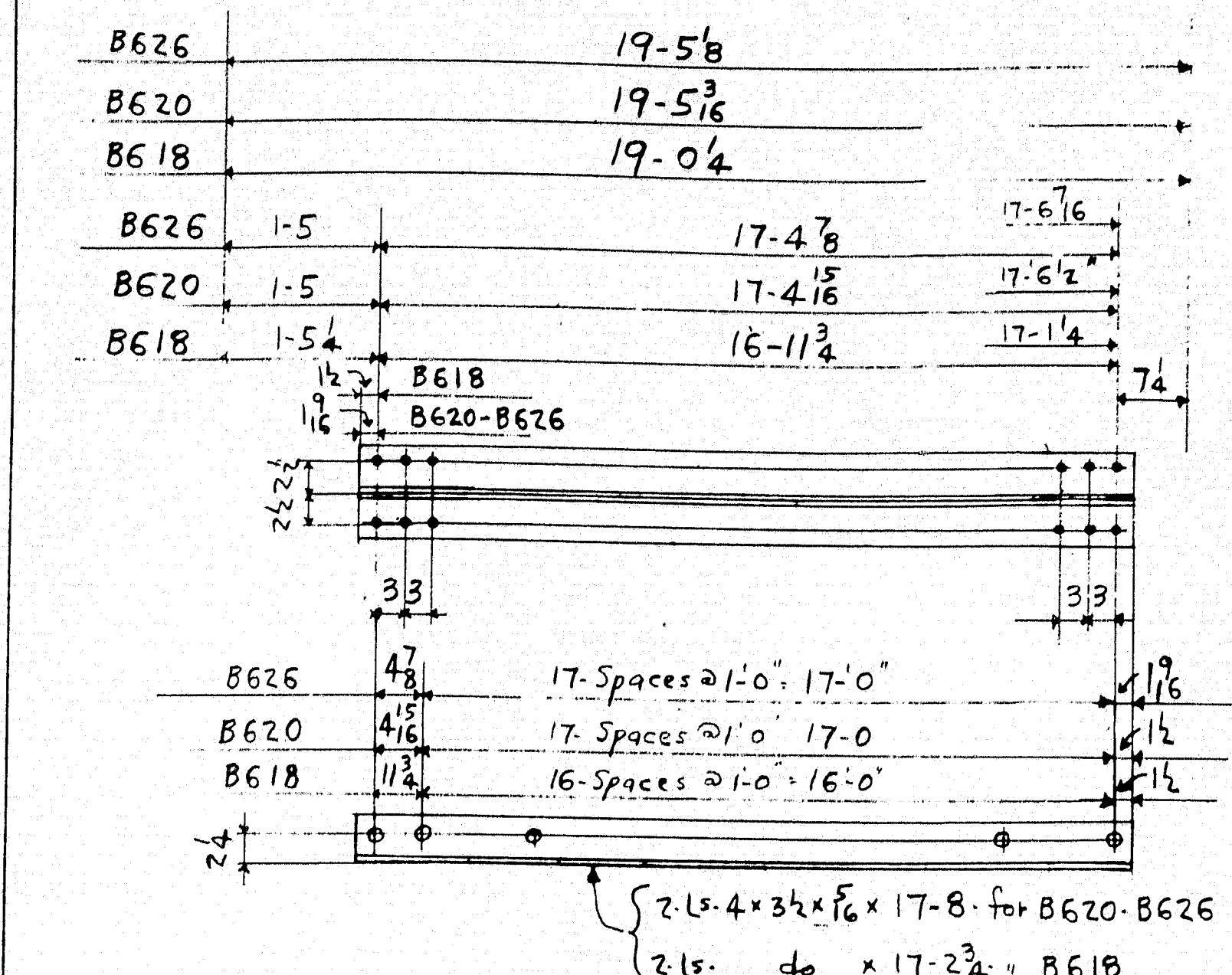
ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. 8-184 (2)
CONTRACT No. 2

BRACES-B431-B432-B435-B436
B541-B543-B545-B547

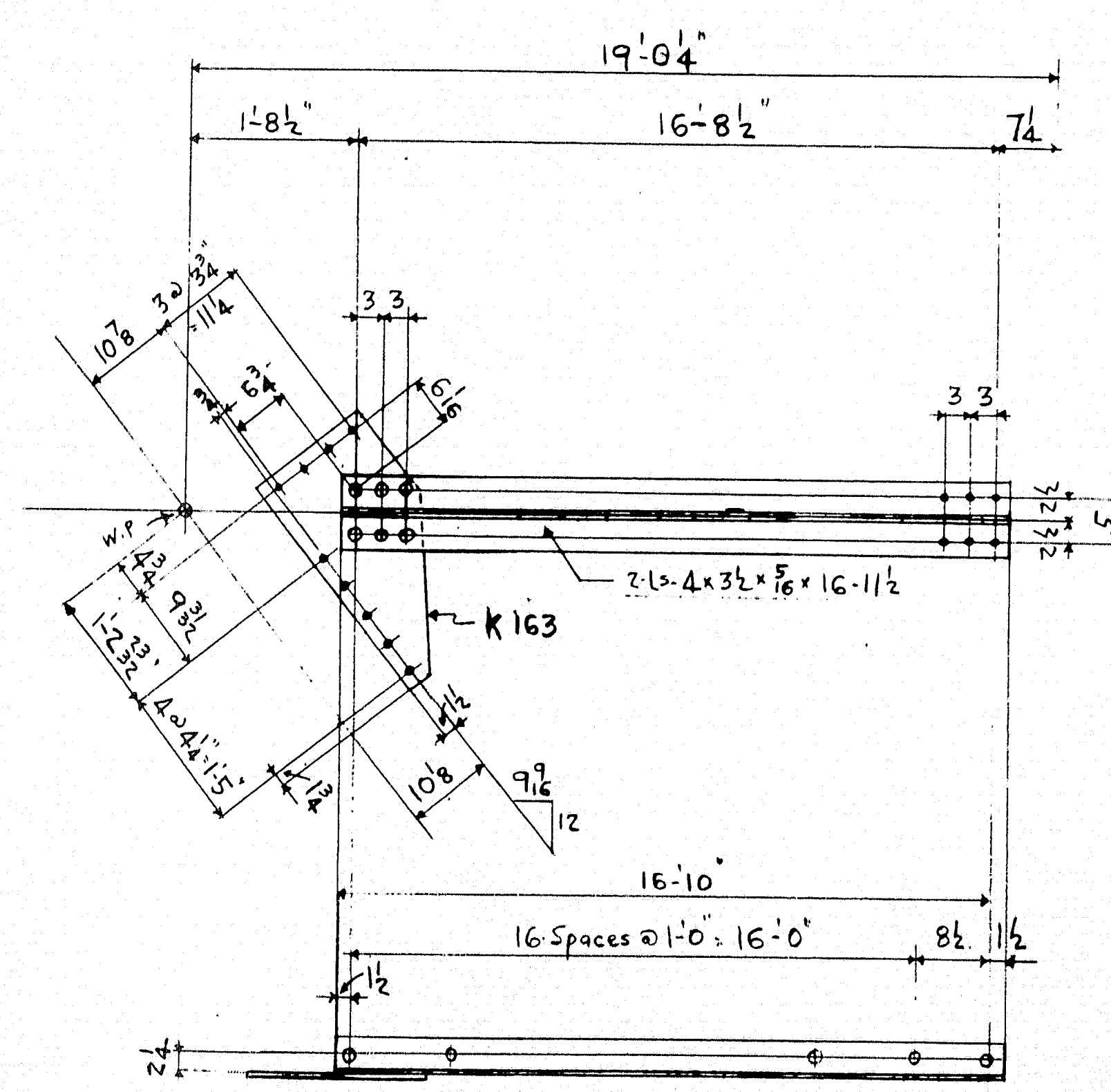
FOR NOTES ON SPECIFICATIONS, MATERIAL,
PAINTING, PUNCHING, DRILLING, REAMING, ETC.
SEE SHEET 5-B

REVISED	DATE	BY	REASON
1	1-6-50	PT	DATE 2-1-50
CONTRACT No. 8378		SHEET No. 168	

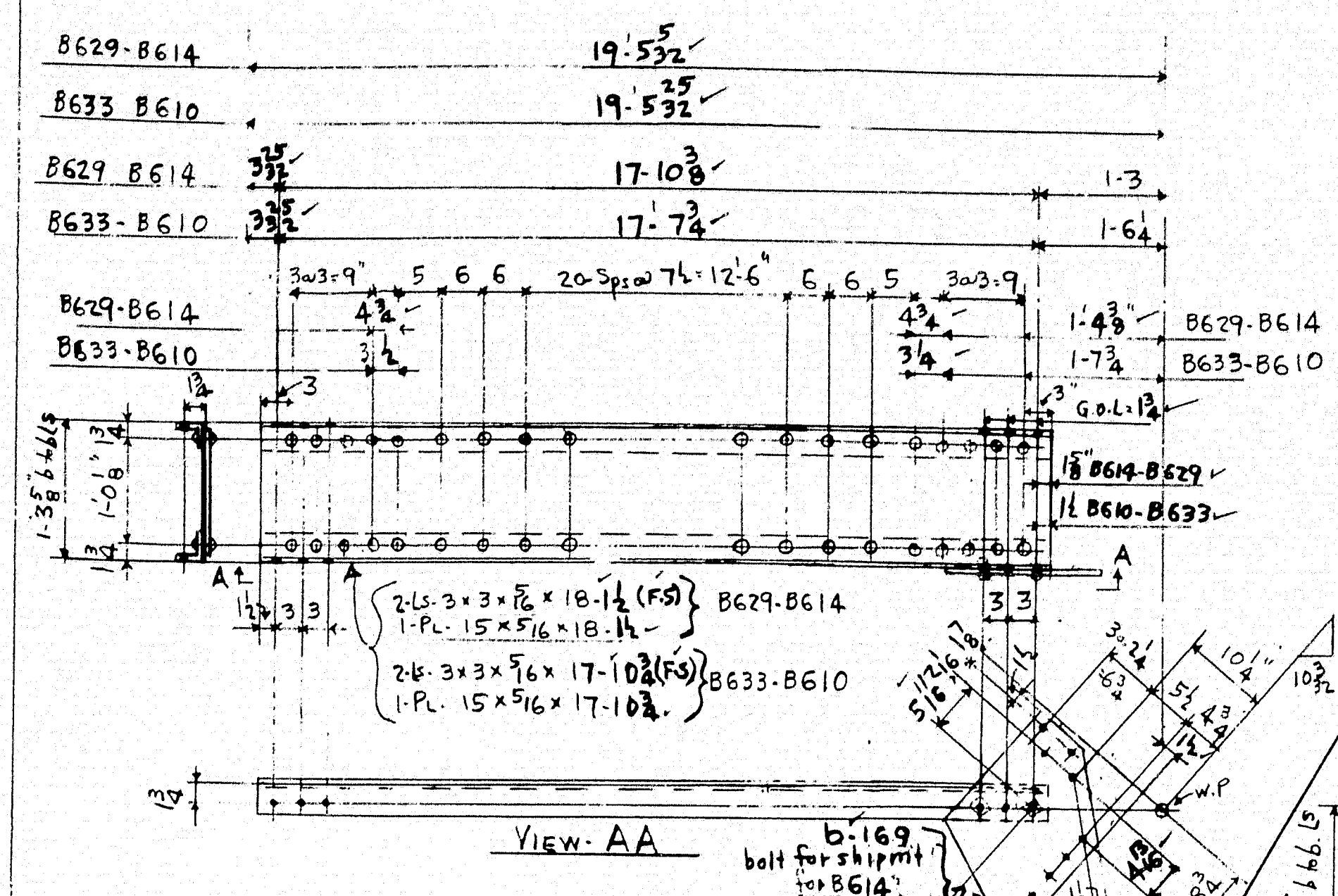
[illegible]



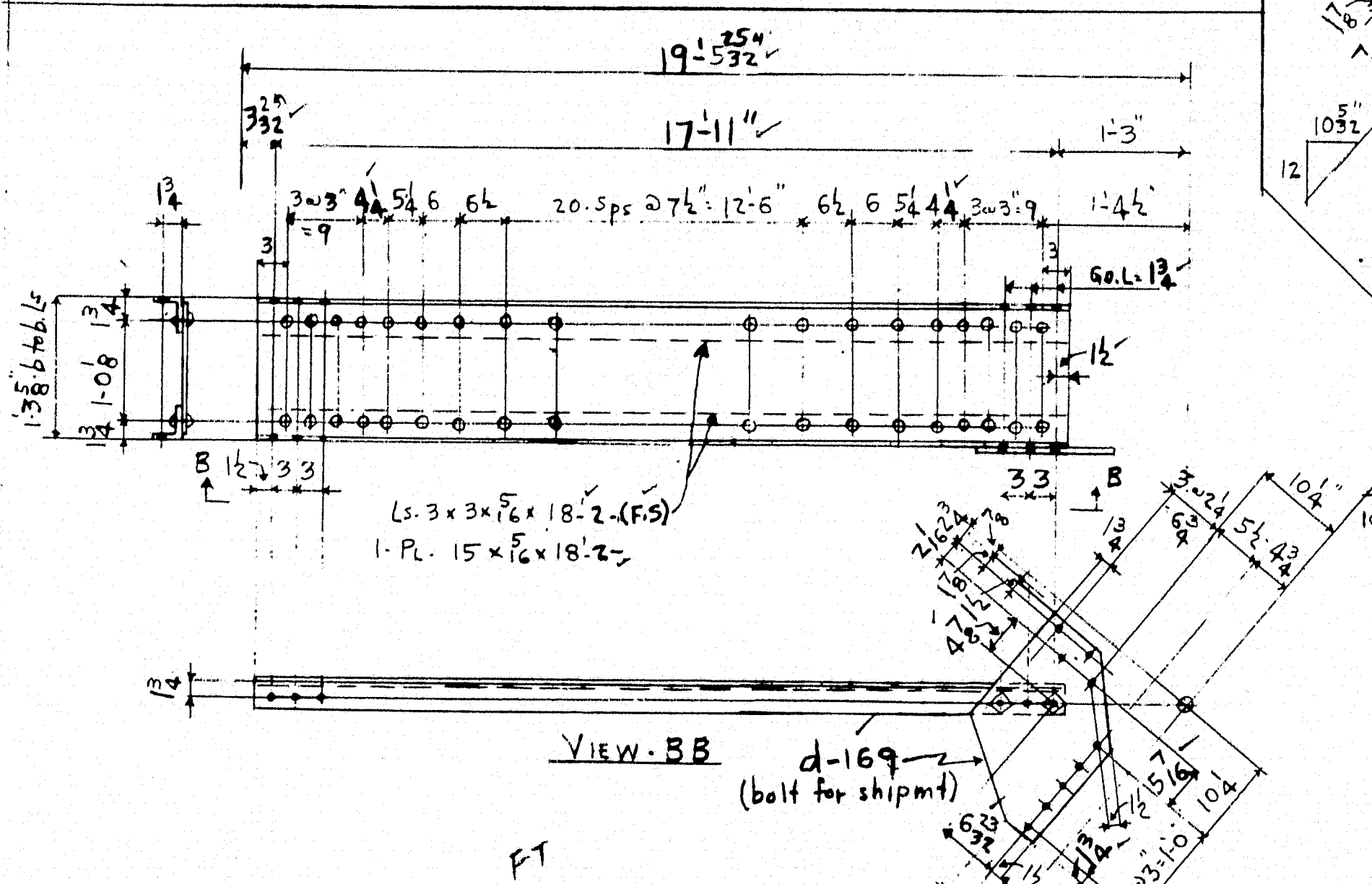
W.T. OF ONE 280# MAKE 8 BRACES - MARK B626
 do 280# " 4 " " B620 W.P.
 do 273# " 2 " " B618



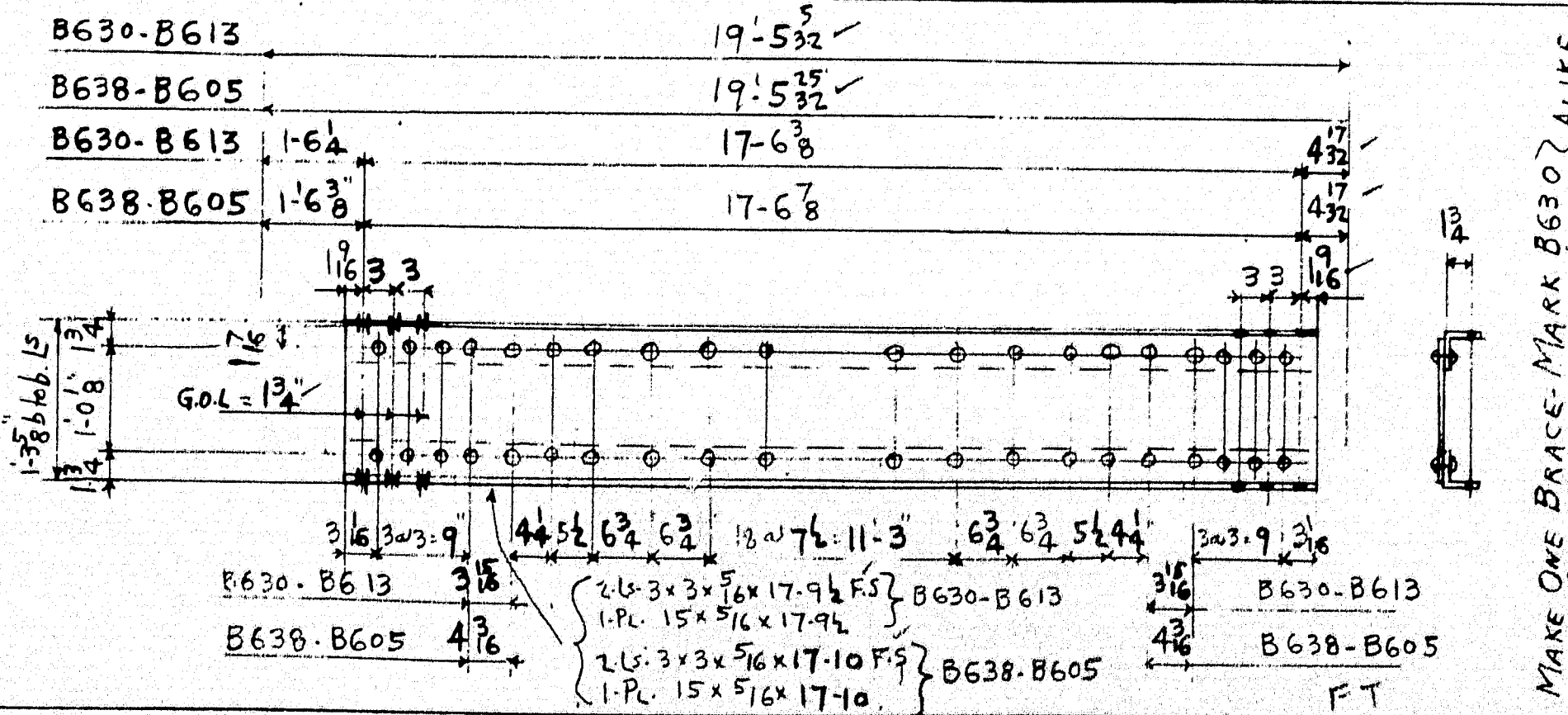
W.T. OF ONE 309# MAKE ONE BRACE MARK B617 } ALIKE
 do 309# " ONE " B655 } W.P.



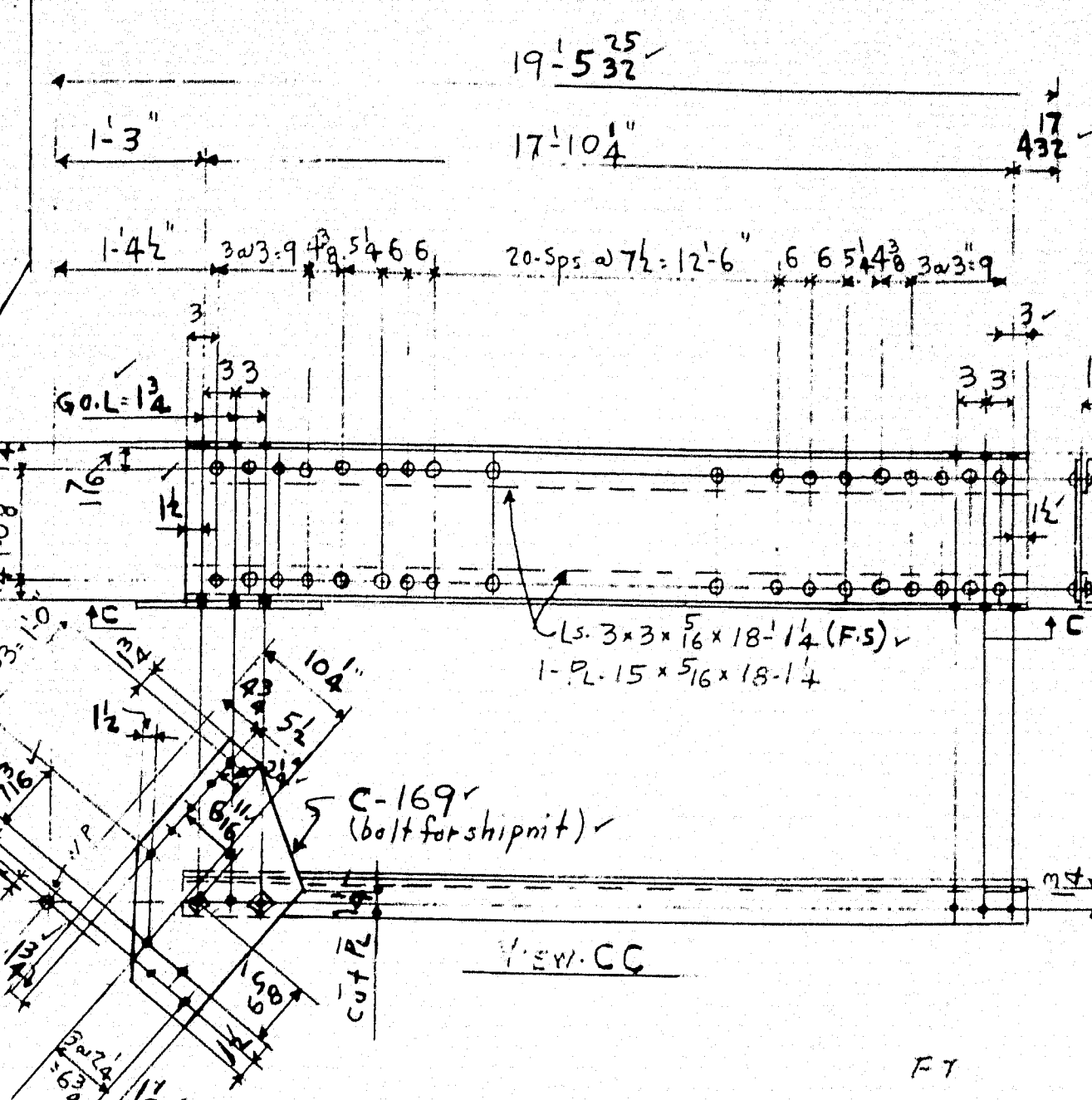
W.T. OF ONE 553 MAKE ONE BRACE MARK B614 - AS SHOWN
 do 553 ONE " B629 OPP HAND
 do 547 ONE " B610 AS SHOWN
 do 547 ONE " B633 OPP HAND



MAKE ONE BRACE MARK B609 AS SHOWN W.T. OF ONE 571#
 ONE " B634 OPP HAND do 571#



W.T. OF ONE 309# MAKE ONE BRACE MARK B617 } ALIKE
 do 309# " ONE " B655 } W.P.



W.T. OF ONE 571# MAKE ONE BRACE MARK B609 - AS SHOWN
 do 571# ONE " B634 - OPP HAND

W.T. OF ONE FOR:
 do B630 528
 do B613 528
 do B638 529
 do B605 529

REQ'D		MADE UP OF							
No	MARK	No	Pc MK	SIZE	LENGTH	REMARKS	ORD	WEIGHT	
8	B626	24		54x3 1/2x7 1/2	17-8		9-418-95	3265	
4	B620	4		54x3 1/2x7 1/2	17-2 1/2			531	
2	B618	264		Rivets 7/8"				95	
1	B617								
1	B655					ALIKE			
		4		54x3 1/2x7 1/2	15-1 1/2		9-418-95	522	
		2	K163	Rs 15 1/2x7 1/2	2-6 1/4	same as sheet #163	9-413-5	100	
		48		Rivets 7/8"				17	
1	B614					AS SHOWN			
1	B629					OPP HAND			
1	B610					AS SHOWN			
1	B633					OPP HAND			
		4		13x3x5 1/2	18-1 1/2	for B629	9-418-96	442	
		2		Rs 15x5 1/2	18-1 1/2	for B614	9-419-57	578	
		4		13x3x5 1/2	17-10 3/8	for B633	9-418-96	437	
		2		Rs 15x5 1/2	17-10 3/8	for B610	9-419-57	571	
		280		Rivets 7/8"				101	
		4		Bolts 7/8" x 2 1/2		same as sheet #163		2	
		2	b-169	Rs 15 1/2x3 1/2	1-9 1/2	for B614 & B629	9-423-5	72	
1	B606					AS SHOWN			
1	B637					OPP HAND			
		4		13x3x5 1/2	18-2		9-418-96	443	
		2		Rs 15x5 1/2	18-2		9-419-57	579	
		2	d169	Rs 15 1/2x3 1/2	1-10 1/2	same as sheet #169	9-423-5	75	
		140		Rivets 7/8"				50	
		4		Bolts 7/8" x 2 1/2				2	
1	B630					ALIKE			
1	B613					ALIKE			
1	B638					ALIKE			
1	B605					ALIKE			
		4		13x3x5 1/2	17-9 1/2	for B630	9-418-96	434	
		2		Rs 15x5 1/2	17-9 1/2	for B613	9-419-57	567	
		4		13x3x5 1/2	17-10	for B638	9-418-96	435	
		2		Rs 15x5 1/2	17-10	for B605	9-419-57	568	
		280		Rivets 7/8"				101	
1	B609					AS SHOWN			
1	B634					OPP HAND			
		4		13x3x5 1/2	18-1 1/2		9-418-96	442	
		2		Rs 15x5 1/2	18-1 1/2		9-419-57	577	
		2	c-169	Rs 15 1/2x3 1/2	2-0 1/2	same as sheet #169	9-423-5	81	
		140		Rivets 7/8"				50	
		4		Bolts 7/8" x 2 1/2				2	

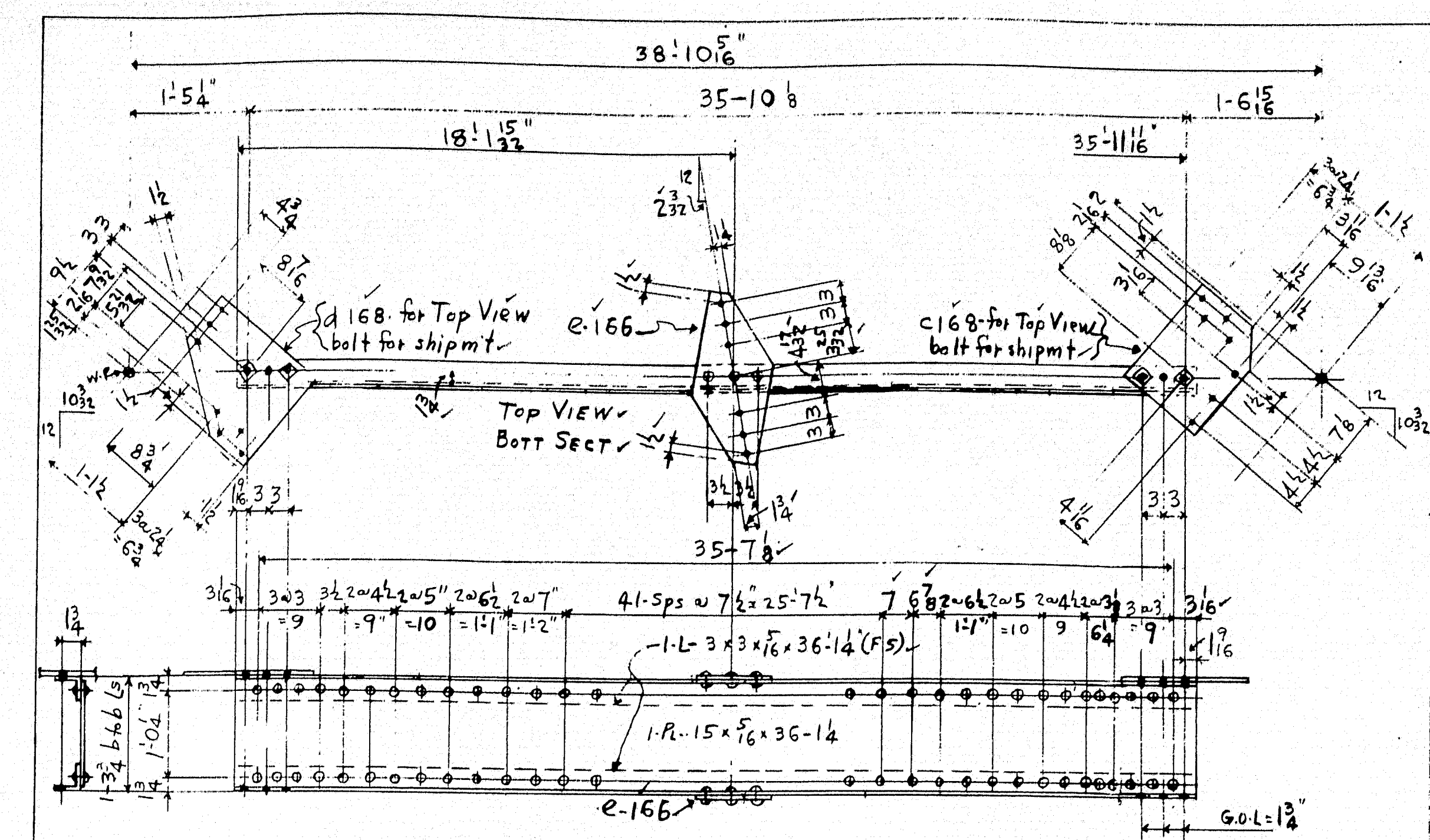
Gross wt. 11139
 W.T. DED. 62
 Net wt. 11077
 PAINT 45
 Total wt. 11122

ARROWSIC BRIDGE OVER SASANOA RIVER
 ARROWSIC - WOODLICH
 FED. AID PROJ. No. S-154 (2)
 CONTRACT No. 2
 BRACES: B605-B606-B609-B610-B613-B614
 B617-B618-B620-B626-B629-B630
 B633-B634-B637-B638-B655

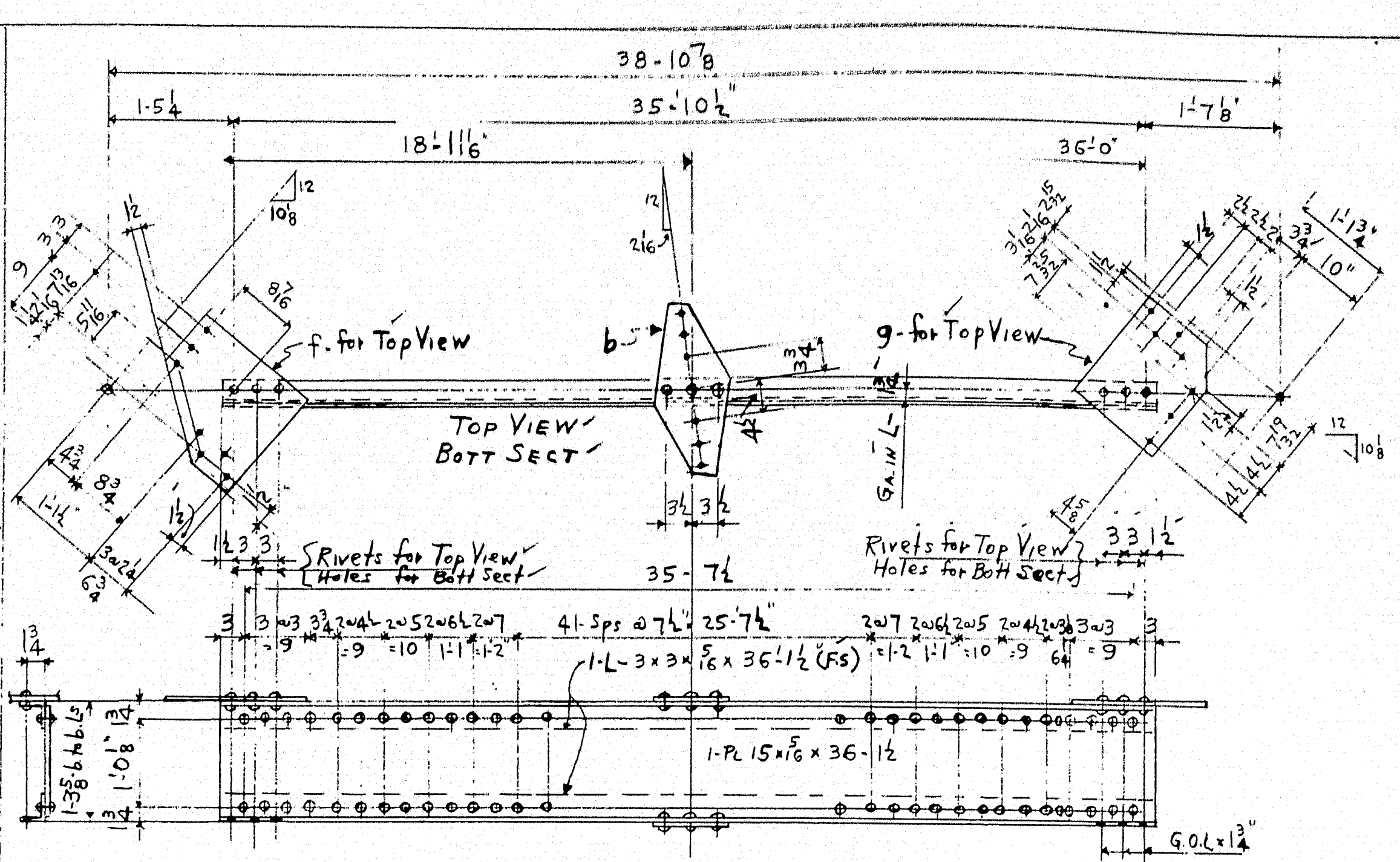
FOR NOTES ON SPECIFICATIONS, MATERIAL,
 PAINTING, PUNCHING, DRILLING, REAMING, ETC.,
 SEE SHEET X50

REVISED	BY	DATE	REVISIONS
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

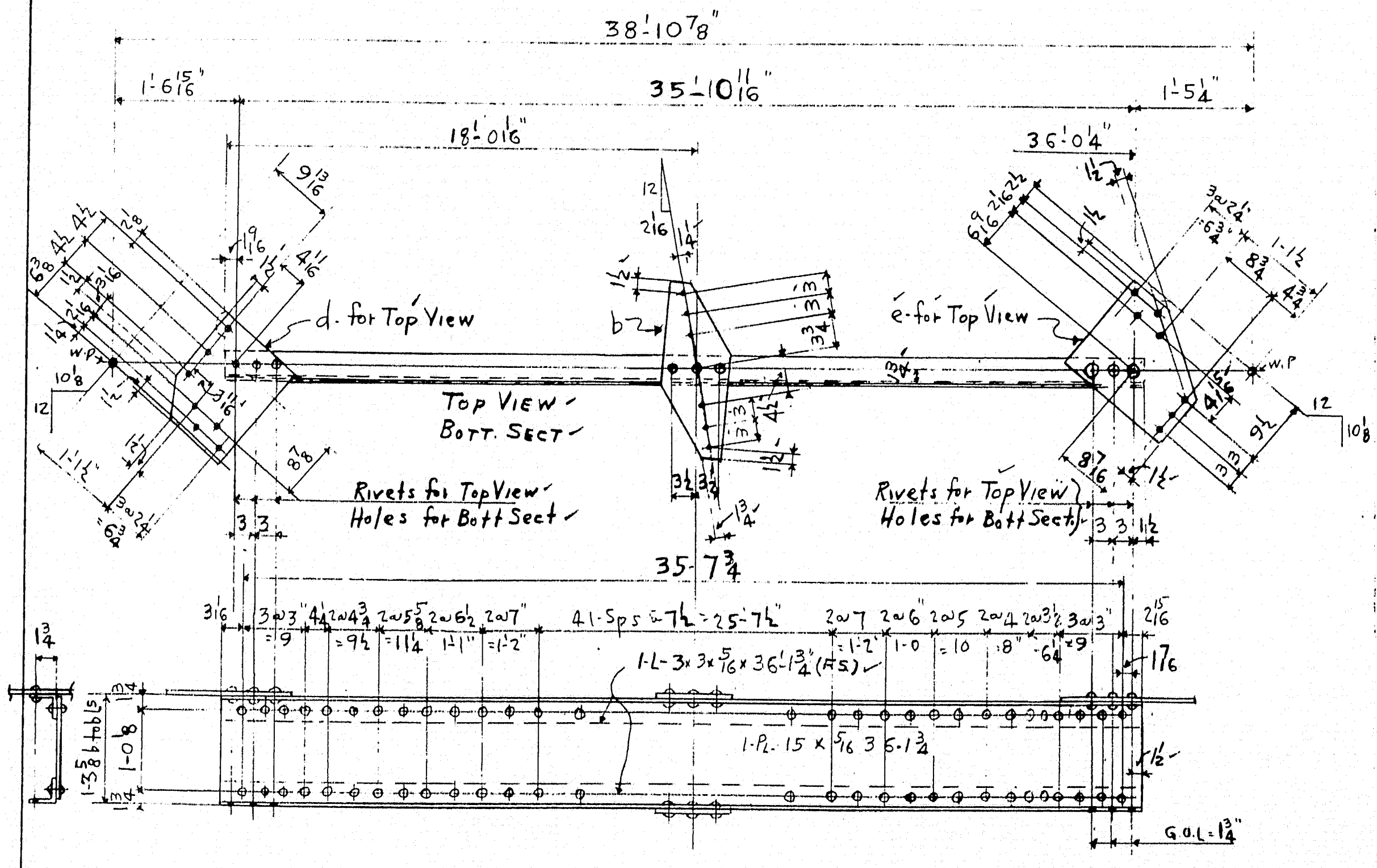
HARRIS STRUCTURAL STEEL CO.
 419 FOURTH AVE. N. M.
 MINN. 55412
 DRAWN BY: W.P. FT
 CHECKED BY: C.378
 CONTRACT NO. 2-1-50
 SHEET NO. 170



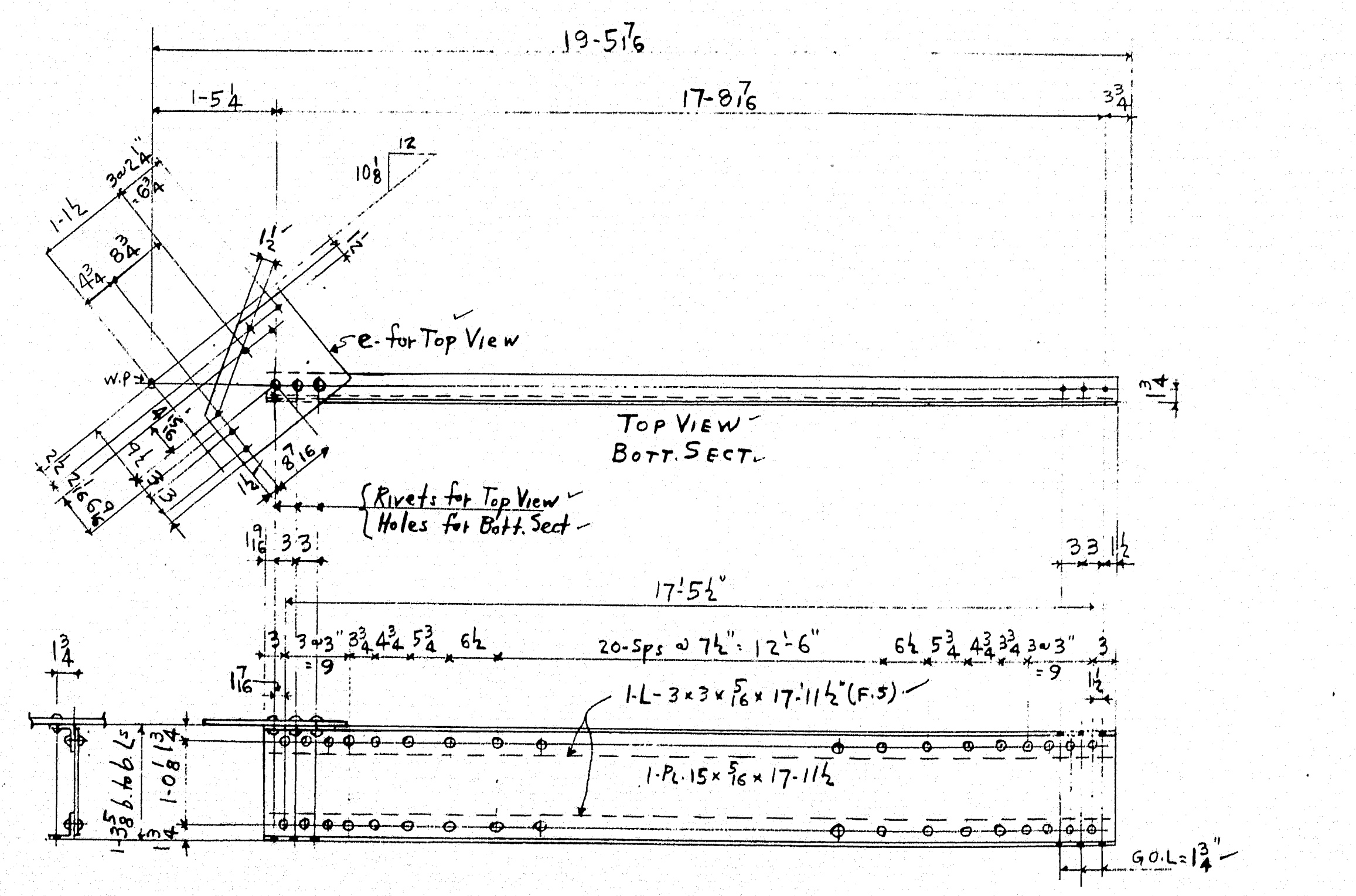
MAKE ONE BRACE MARK B434- AS SHOWN
ONE " " B542- OPP HAND } WT OF ONE = 1165.



MAKE ONE BRACE MARK B442 AS SHOWN
ONE " " B534 OPP HAND } WT OF ONE = 1159.



MAKE ONE BRACE- MARK B438- AS SHOWN
ONE " " B538 OPP HAND } WT OF ONE = 1157.



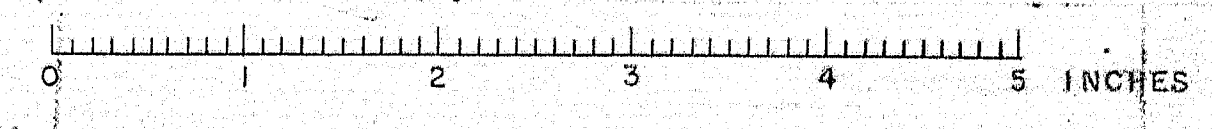
MAKE ONE BRACE MARK B440- AS SHOWN
ONE " " B537- OPP HAND } WT OF ONE = 562.

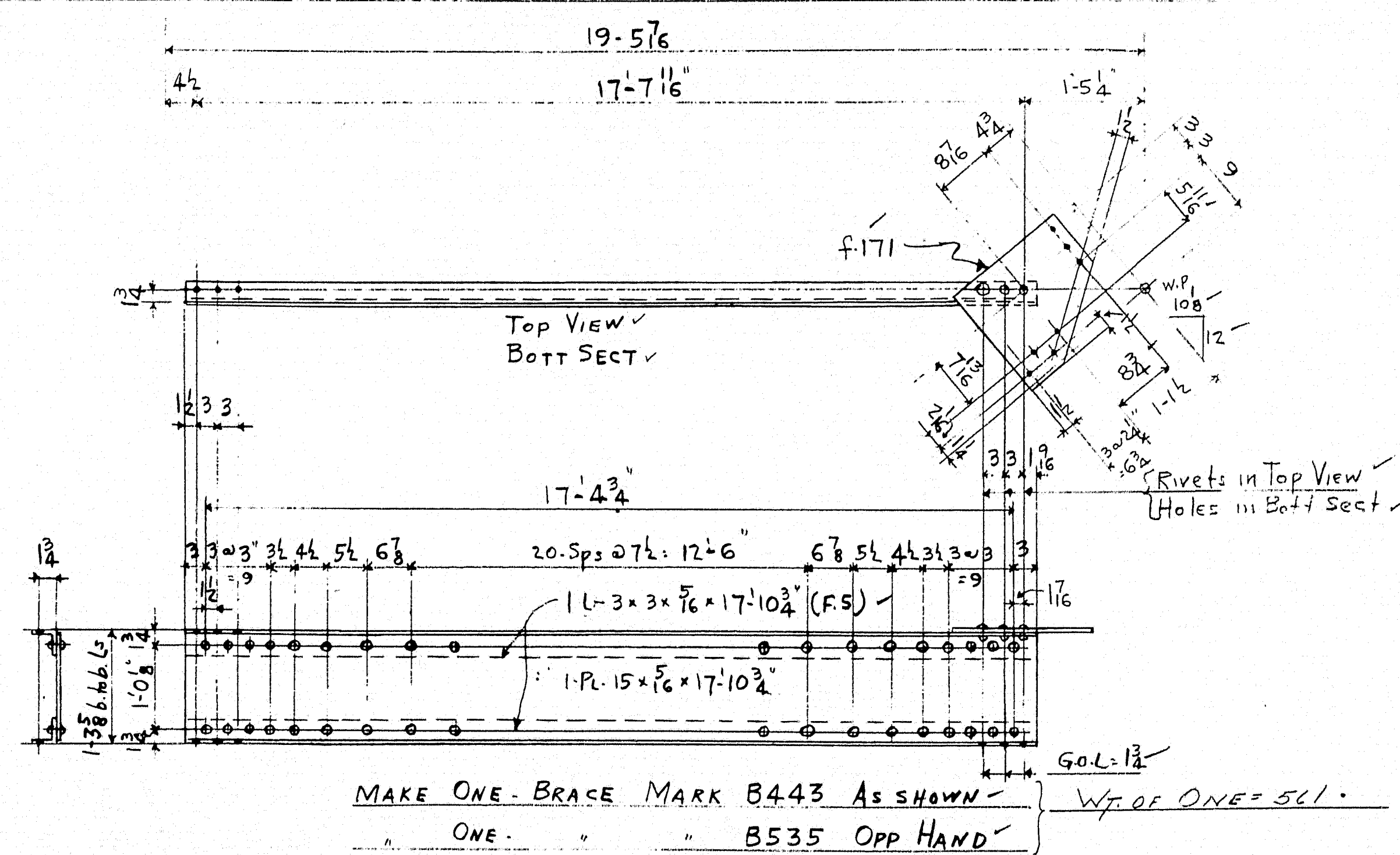
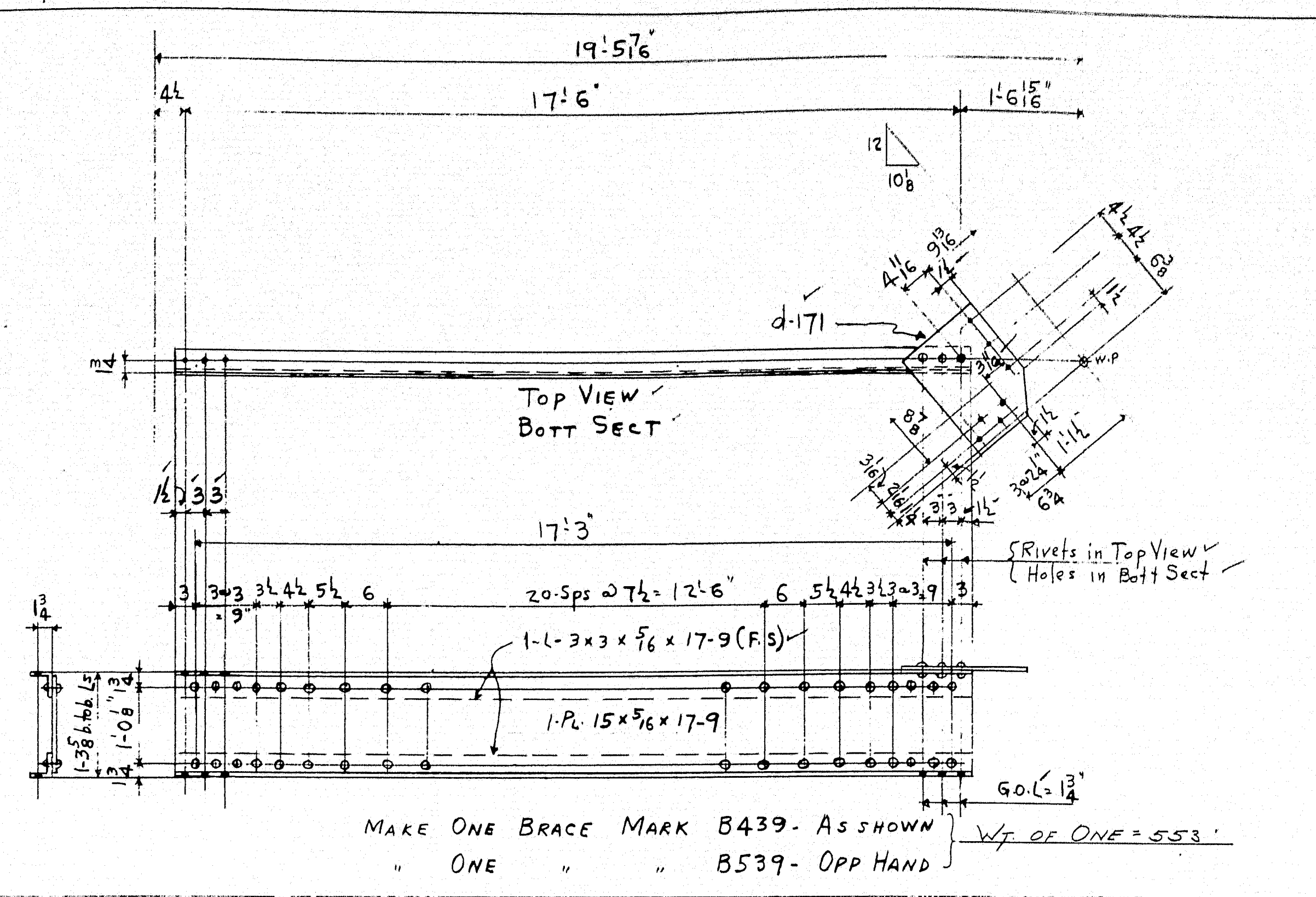
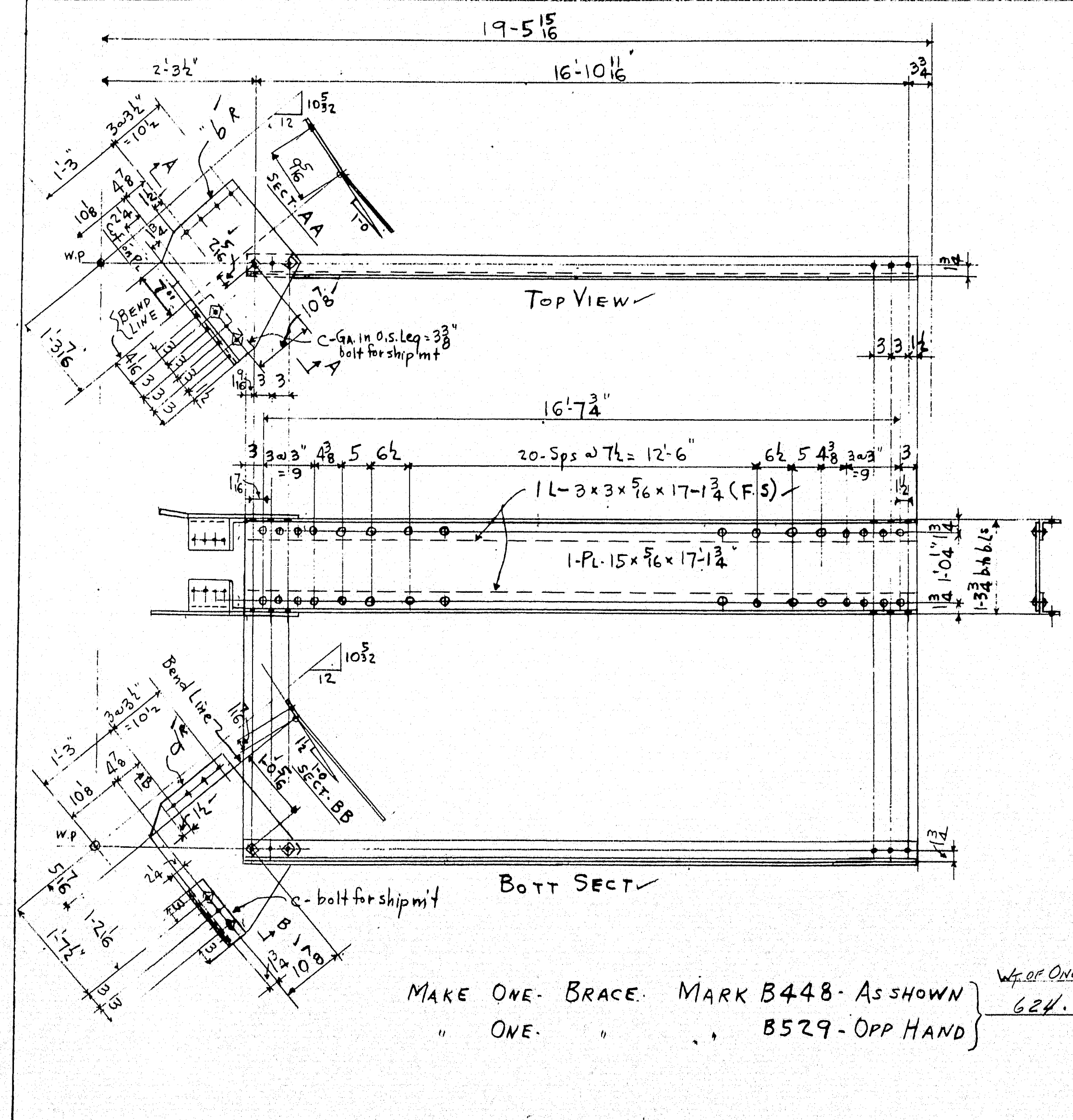
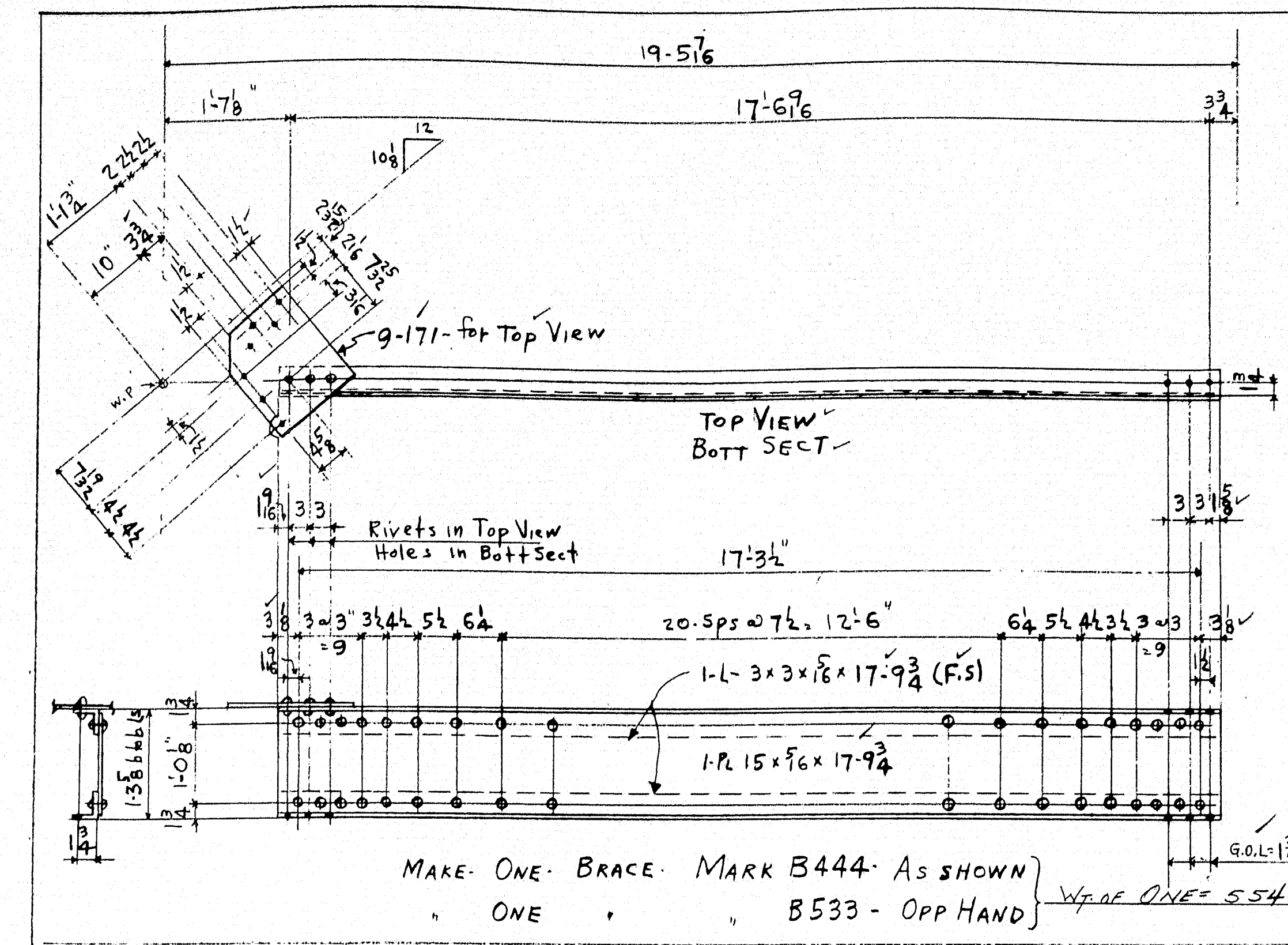
READ		MADE UP OF							
NO	MARK	NO	PLK	SIZE	LENGTH	REMARKS	ORD	WEIGHT.	Cuts
AS SHOWN	1 B434								
OPP HAND	1 B542								
		4		1/2" x 3/4"	36-114		9-418-96	881	-
		2		PLS 15 x 7/16	36-114		9-419-56	1151	-
		2	d 1/16"	PLS 16 1/2 x 3/8	1-6 1/2	same as sheet # 158	9-423-5	66	10
		4	e 1/16"	PLS 10 x 3/8	1-10	same as sheet # 156	114-8	93	13
		2	c 1/16"	PLS 13 1/2 x 3/8	1-5	same as sheet # 160	114-4	49	2
		280		Rivets 7/8"				101	-
		8		Bolts 7/8"	22			4	-
AS SHOWN	1 B438								
OPP HAND	1 B538								
		4		1/2" x 3/4"	36-114		9-418-96	882	-
		2		PLS 15 x 7/16	36-114		9-419-56	1152	-
		2	d	PLS 16 1/2 x 3/8	1-5 3/4		114-4	51	4
		4	b	PLS 10 x 3/8	1-10		114-8	93	28
		2	e	PLS 16 x 3/8	1-6 1/2		9-423-5	63	8
		292		Rivets 7/8"				105	-
AS SHOWN	1 B442								
OPP HAND	1 B534								
		4		1/2" x 3/4"	36-114		9-418-96	882	-
		2		PLS 15 x 7/16	36-114		9-419-56	1152	-
		2	f	PLS 16 1/2 x 3/8	1-6 1/2		9-423-5	66	10
		4	b	PLS			114-8	93	28
		2	g	PLS 13 1/2 x 3/8	1-5 1/4		9-423-5	50	2
		292		Rivets 7/8"				105	-
AS SHOWN	1 B440								
OPP HAND	1 B537								
		4		1/2" x 3/4"	17-11 1/2		9-418-96	438	-
		2		PLS 15 x 7/16	17-11 1/2		9-419-57	573	-
		2	e	PLS			9-423-5	63	8
		146		Rivets 7/8"				53	-
								GROSS WT.	8166
								WT DED.	113
								NET WT.	8053
								PAINT	33
								TOTAL WT.	8086

ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2
BOTTOM CHORD BRACING

FOR NOTES: ON SPECIFICATIONS, MATERIAL,
PAINTING, PUNCHING, DRILLING, REAMING, ETC.
SEE SHEET X80

RIVETS 7/8" DIA.	OPEN HOLES 1 1/2" DIA.	HARRIS STRUCTURAL STEEL CO. 619 FOURTH AVE., N. Y.
UNLESS OTHERWISE NOTED		
REVISIONS		
DRAWN BY: N.M.		DATE: 1-11-50
CHECKED BY: F.T.		DATE: 2-2-50
CONTRACT No. 5378		SHEET No. 171





READ		MADE UP OF							J8
No	MARK	No	Pc Mk	SIZE	LENGTH	REMARKS	ORD	WEIGHT	Cut
1	B444								
	B533								
		4		$\frac{1}{2} \times 3 \times \frac{5}{16}$	17-9 $\frac{3}{4}$		9-418-96	435-	-
		2	/	Pcs $15 \times \frac{5}{16}$	17-9 $\frac{3}{4}$		9-419-57	568-	2
		2	g-171	Pcs $13\frac{3}{4} \times \frac{5}{8}$	1-5 $\frac{1}{4}$	same as sheet #171	9-423-5	50-	
		146		Rivets $7\frac{1}{8} \times \phi$				53-	
1	B448								
	B529								
		4		$\frac{1}{2} \times 3 \times \frac{5}{16}$	17-1 $\frac{3}{4}$		9-418-96	418-	-
		2	/	Pcs $15 \times \frac{5}{16}$	17-1 $\frac{3}{4}$		Do - 97	547-	-
		2	bq	Pcs $18\frac{3}{4} \times \frac{5}{8}$	2-0	bent -	9-419-57	96-	10
		4	c	$\frac{1}{2} \times 5 \times \frac{3}{4}$	1-0		9-423-5	42-	
		2	dR	Pcs $18\frac{3}{4} \times \frac{5}{8}$	2-2 $\frac{1}{4}$	bent -	119-8	105-	11
		132		Rivets $7\frac{1}{8} \times \phi$			9-422-5	48-	
		16		Bolts $7\frac{1}{8} \times \phi$	x2 $\frac{1}{2}$			8-	
1	B439								
	B539								
		4		$\frac{1}{2} \times 3 \times \frac{5}{16}$	17-9		9-418-96	433-	-
		2	/	Pcs $15 \times \frac{5}{16}$	17-9		9-419-57	568-	-
		2	d-171	Pcs $13\frac{3}{4} \times \frac{5}{8}$	1-5 $\frac{1}{4}$	same as sheet #171	114-4	51-	2
		146		Rivets $7\frac{1}{8} \times \phi$				53-	-
1	B443								
	B535								
		4		$\frac{1}{2} \times 3 \times \frac{5}{16}$	17-10 $\frac{3}{4}$		9-418-96	437-	-
		2	/	Pcs $15 \times \frac{5}{16}$	17-10 $\frac{3}{4}$		9-419-57	571-	-
		2	f-171	Pcs $16\frac{1}{4} \times \frac{3}{8}$	1-6 $\frac{1}{2}$	same as sheet #171	9-423-5	66-	10
		146		Rivets $7\frac{1}{8} \times \phi$				53-	
								Gross wt	4600-
								w t DED	35-
								Net w t	4565-
								Paint	19-
								Total w t	4584-

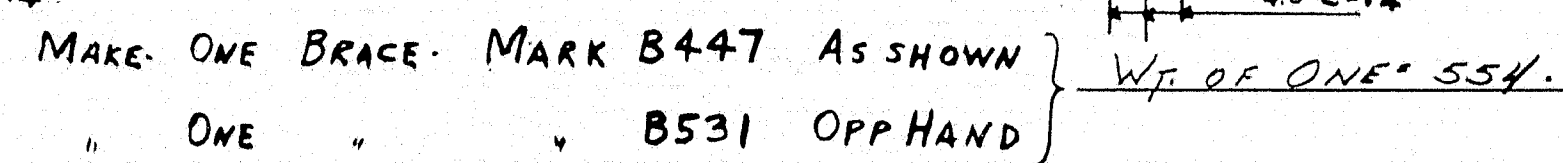
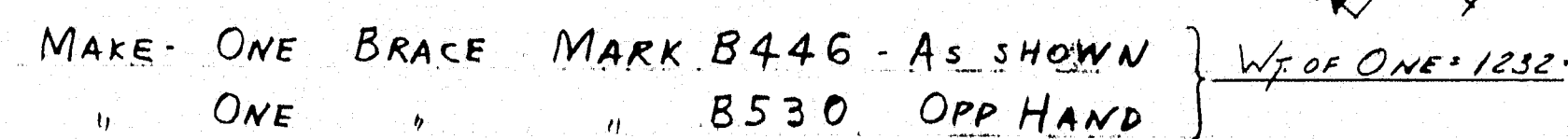
ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
 FED. AID PROJ. No. S-154
 CONTRACT No. 2

BOTTOM CHORD BRACING

FOR NOTES ON SPECIFICATIONS, MATERIAL,
PAINTING, PUNCHING, DRILLING, REAMING, ETC.
SEE SHEET X50

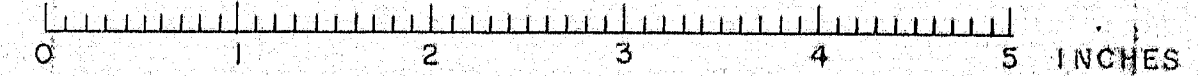
HARRIS STRUCTURAL STEEL CO
419 FIFTH AVE. N. Y.

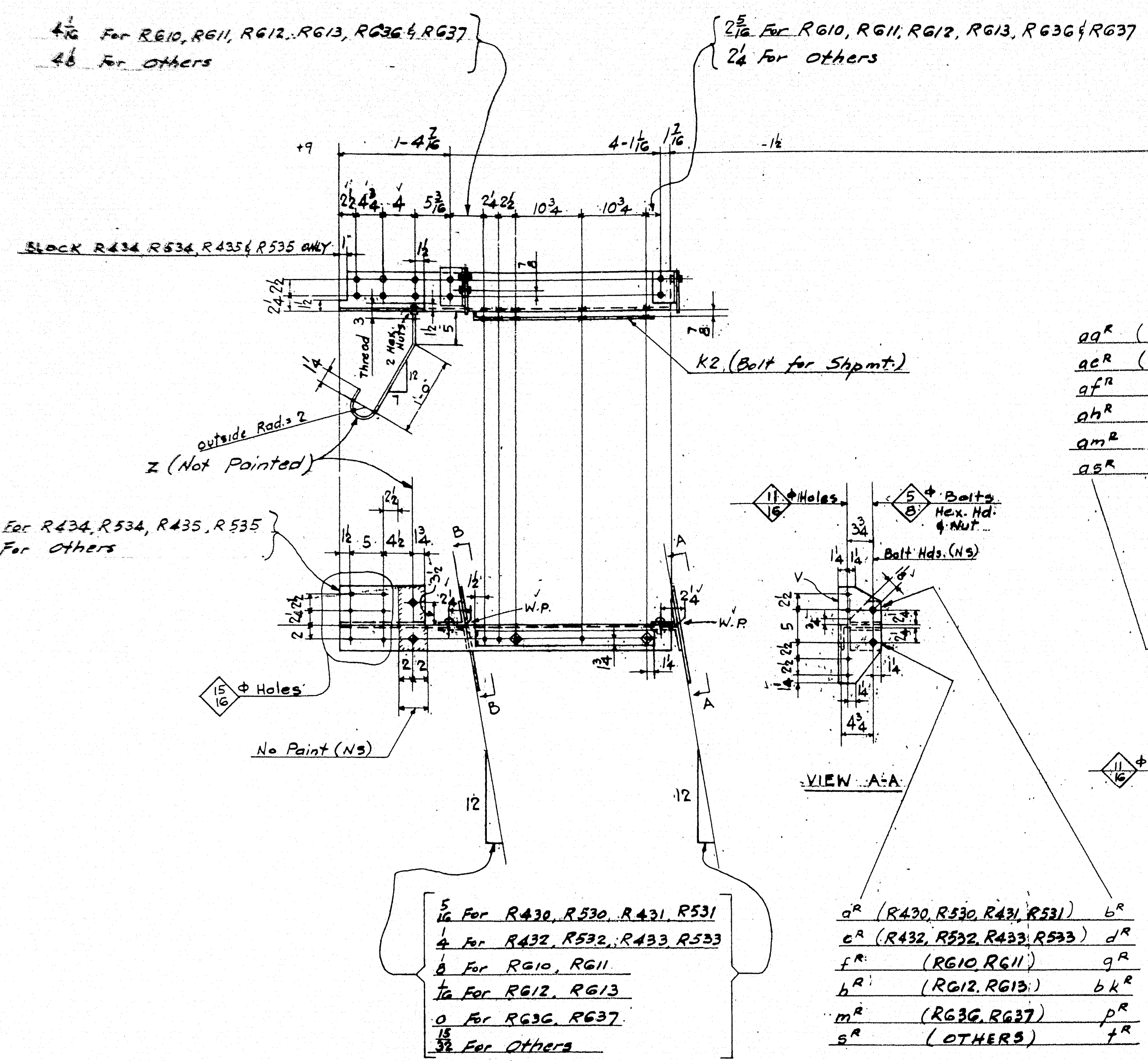
DRAWN, MADE BY N.M DATE 1-17-50
 DRAWN, CHECKED BY FT DATE 2-2-5
 CONTRACT NO. C378 SHEET No 172



Gross wt.	3593.
wt DED.	35.
Net wt.	3558.
PAINT	14.
TOTAL wt.	3572.

48-185





W/O F. ONE = 132
 do = 128
 do = 132
 do = 131
 do = 132

REQ'D.	NO	MARK	NO	R.MK.	SIZE	LGTH.	REMARKS	ORD.	WEIGHT	CUTS
AS SHOWN	15	R414	15		L-6x4-1/2	4-22		108.3	1023	
AS SHOWN	15	R514	15						1023	
OPR. HAND	15	R515	15						1023	
AS SHOWN	1	R434	1						68	
AS SHOWN	1	R534	1						68	
OPR. HAND	1	R435	1						68	
OPR. HAND	1	R535	1						68	
AS SHOWN	2	R430	2						136	
AS SHOWN	2	R530	2						136	
OPR. HAND	2	R431	2						136	
OPR. HAND	2	R531	2						136	
AS SHOWN	4	R432	4						273	
AS SHOWN	4	R532	4						273	
OPR. HAND	4	R433	4						273	
OPR. HAND	4	R533	4						273	
AS SHOWN	6	R610	6						409	
OPR. HAND	6	R611	6						409	
AS SHOWN	6	R612	6						409	
OPR. HAND	6	R613	6						409	
AS SHOWN	6	R636	6						409	
OPR. HAND	6	R637	6		L-6x4-1/2	4-22			409	

8	af	L-3x3x1/2	5	Bent	108.8	24
8	br					24
16	cr					48
16	dr					48
12	fe					36
12	gr					36
12	hr					36
12	kr			Bent		36
12	lr					36
12	mr					36
12	nr					36
64	sr			Bent		194
64	tr	L-3x3x1/2	5	Do		194
124	v	P-6x4x1/2	1-3		9-419-43	1031
124	w	P-6x4x1/2	5			353
124	y	Do	8			580
248	z	3/4 Rod 2-1/2 ADT	2	Hex. Nut	118-38	834
8	aa	L-3x3x1/2	5	Bent	108.8	25
8	ab					25
16	ac					51
16	ad					51
12	ae					38
12	af					38
12	ag					38
12	ah					38
12	ai			Bent		38
12	aj					38
64	ak			Bent		203
64	al	L-3x3x1/2	5	Do		203
4	av	L-6x6x1/2	1-0		9-418-89	73
120	aw	Do	1-0		Do	218
124	k2	Bar 3/8x1/2	2-6	ADT	108-13	1153
1240	Riv.	3/4				298
744	Bolt	5/8	1/2	Hex. Hd. Nut	329-43	134
248	Bolt	3/4	2 1/2			79

GROSS WT. 16711
 WT. DED. 440
 NET WT. 16271
 PAINT 65
 TOTAL WT. 16336

ARROWSIC BRIDGE OVER SASANOVA RIVER
 ARROWSIC - WOOLWICH
 FED. AID PROJ. No. S-154 (2)
 CONTRACT No. 2

RAILING POSTS - SPANS 3, 4 & 5.

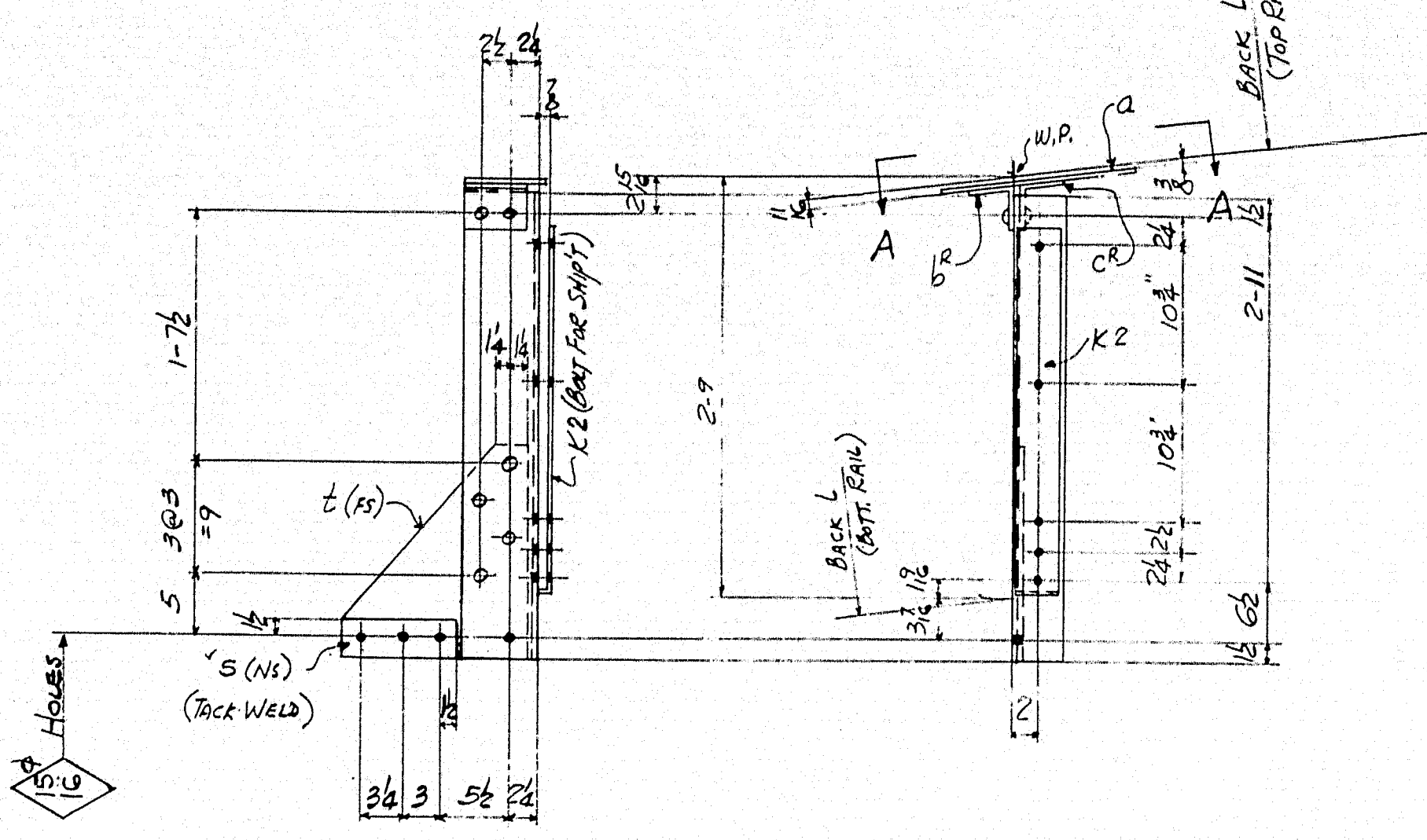
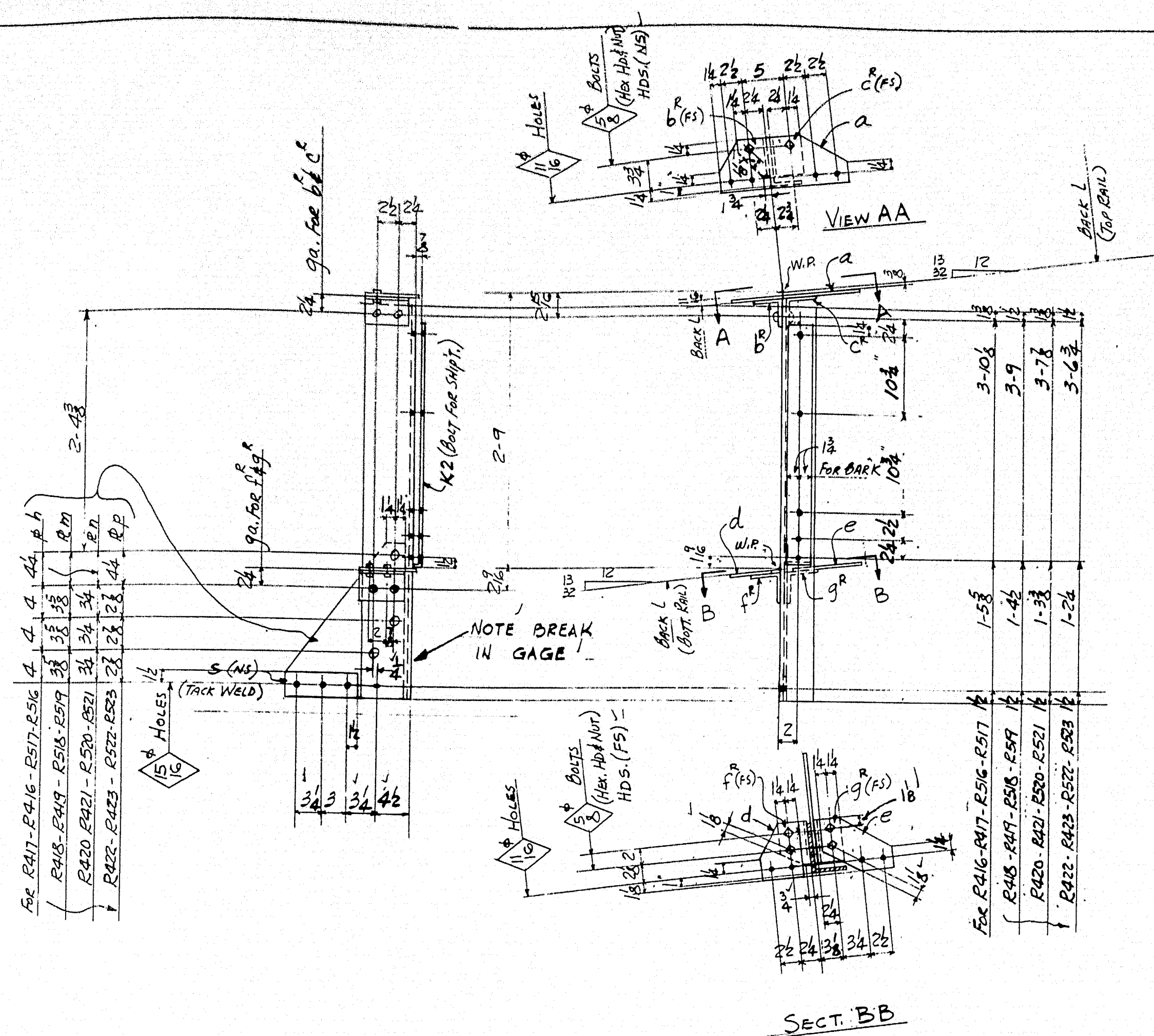
FOR NOTES ON SPECIFICATIONS, MATERIAL, PAINTING, PUNCHING, DRILLING, REAMING, ETC. SEE SHEET X50

HARRIS STRUCTURAL STEEL CO.
 619 FOURTH AVE., N. Y.

REVISIONS

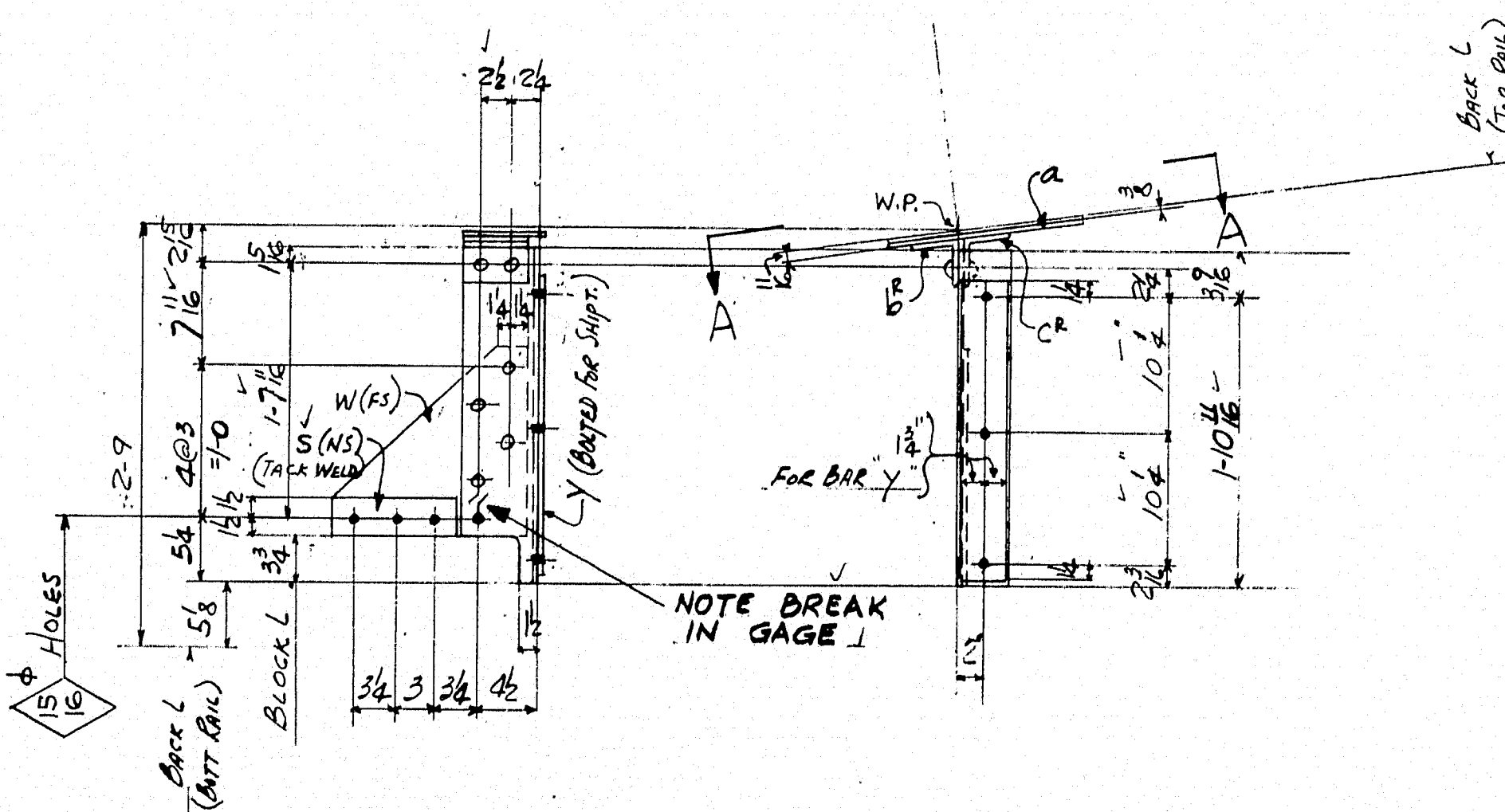
DATE 1-6-50
 DATE 2-11-50
 CONTRACT No. C-378 SHEET No. 174

WORK THIS SHEET WITH SH. 105



WT. ABOVE 92" MAKE ONE POST - MARK R424 (AS SHOWN)
 do 92" MAKE ONE POST - MARK R425 (OPP. HAND)
 do 92" MAKE ONE POST - MARK R524 (AS SHOWN)
 do 92" MAKE ONE POST - MARK R525 (OPP. HAND)

WT. ABOVE 127" MAKE ONE POST - MARK R416 (AS SHOWN)
 do 127" MAKE ONE POST - MARK R417 (OPP. HAND)
 do 127" MAKE ONE POST - MARK R516 (AS SHOWN)
 do 127" MAKE ONE POST - MARK R517 (OPP. HAND)
 do 124" MAKE ONE POST - MARK R418 (AS SHOWN)
 do 124" MAKE ONE POST - MARK R419 (OPP. HAND)
 do 124" MAKE ONE POST - MARK R518 (AS SHOWN)
 do 124" MAKE ONE POST - MARK R519 (OPP. HAND)
 do 120" MAKE ONE POST - MARK R420 (AS SHOWN)
 do 120" MAKE ONE POST - MARK R421 (OPP. HAND)
 do 120" MAKE ONE POST - MARK R520 (AS SHOWN)
 do 120" MAKE ONE POST - MARK R521 (OPP. HAND)
 do 118" MAKE ONE POST - MARK R422 (AS SHOWN)
 do 118" MAKE ONE POST - MARK R423 (OPP. HAND)
 do 118" MAKE ONE POST - MARK R522 (AS SHOWN)
 do 118" MAKE ONE POST - MARK R523 (OPP. HAND)



WT. ABOVE 76" MAKE ONE POST - MARK R426 (AS SHOWN)
 do 76" MAKE ONE POST - MARK R427 (OPP. HAND)
 do 77" MAKE ONE POST - MARK R526 (AS SHOWN)
 do 77" MAKE ONE POST - MARK R527 (OPP. HAND)

REQ'd	NO	MARK	NO	R. MK	SIZE	LENGTH	REMARKS	QTY	WEIGHT
1	R416	1			LG 4x4	3-11 1/2	AS SHOWN	108-3	64
1	R417	1			3-11 1/2	3-11 1/2	OPP. HAND		64
1	R516	1			3-11 1/2	3-11 1/2	AS SHOWN		64
1	R517	1			3-11 1/2	3-11 1/2	OPP. HAND		64
1	R418	1			3-10 1/2	3-10 1/2	AS SHOWN		63
1	R419	1			3-10 1/2	3-10 1/2	OPP. HAND		63
1	R518	1			3-10 1/2	3-10 1/2	AS SHOWN		63
1	R519	1			3-10 1/2	3-10 1/2	OPP. HAND		63
1	R420	1			3-9 1/4	3-9 1/4	AS SHOWN		61
1	R421	1			3-9 1/4	3-9 1/4	OPP. HAND		61
1	R520	1			3-9 1/4	3-9 1/4	AS SHOWN		61
1	R521	1			3-9 1/4	3-9 1/4	OPP. HAND		61
1	R422	1			3-8 1/4	3-8 1/4	AS SHOWN		60
1	R423	1			3-8 1/4	3-8 1/4	OPP. HAND		60
1	R522	1			3-8 1/4	3-8 1/4	AS SHOWN		60
1	R523	1			3-8 1/4	3-8 1/4	OPP. HAND		60
16	a				R 6x4x1/2	1-3		9-419-43	133
16	b				L 3 1/2 x 3 1/2 x 1/2	5	BENT	108-8	48
16	c				DO	5	BENT	DO	48
16	d				R 6x4x1/2	5		9-419-43	46
16	e				R 6x4x1/2	8 1/4		DO	75
16	f				L 3 1/2 x 3 1/2 x 1/2	5 1/4	BENT	108-8	51
16	g				DO	5 1/4	BENT	DO	51
1-4	h				R 14x4x3/8	1-7		108-10	119
5-8	i				DO	1-6			113
7-12	j				DO	1-4 1/2			105
13-16	k				DO	1-3 1/2			99
16	l				FILL 3x6	9 1/2		108-14	64
16	m				K2	2-6	ABT. BENT - SAME AS SHIT 2	108-13	149
112	n				3/4" RIVETS				27
96	o				3/4" BOLTS	12	HEX HD & NUT	32943	17
32	p				3/4" BOLTS	26			10
1	R424	1			LG 4x4x1/2	3-0 1/2	AS SHOWN	108-3	49
1	R425	1			DO	3-0 1/2	OPP. HAND		49
1	R524	1			DO	3-0 1/2	AS SHOWN		49
1	R525	1			DO	3-0 1/2	OPP. HAND		49
4	a							9-419-43	33
4	b							108-8	12
4	c							DO	12
4	d							108-13	37
4	e				R 14x4x3/8	1-5		108-10	107
4	f				FILL 3x6	9 1/2		108-14	16
24	g				3/4" RIVETS				6
3	h				3/4" BOLTS	26			3
3	i				3/4" BOLTS	12	HEX HD & NUT	32943	1
1	R426	1			LG 4x4x1/2	2-2 1/4	AS SHOWN	108-3	35
1	R427	1			DO	2-2 1/4	OPP. HAND		35
1	R526	1			DO	2-2 1/4	AS SHOWN		35
1	R527	1			DO	2-2 1/4	OPP. HAND		35
4	a							9-419-43	33
4	b							108-8	12
4	c							DO	12
4	d				BAR 3/4 x 5/8	1-11		108-13	29
4	e				R 14x4x3/8	1-2 1/4		108-10	93
4	f							108-14	16
24	g				3/4" RIVETS				6
3	h				3/4" BOLTS	26			3
3	i				3/4" BOLTS	12	HEX HD & NUT	32943	1

GROSS WT. 2915
 NET WT. 2620
 PAINT 10
 TOTAL WT. 2630

ARROWSIC BRIDGE OVER SABANOA RIVER
 ARROWSIC - WOOLWICH
 FED. AID PROJ. No. S-154 (2)
 CONTRACT No. 2

FOR NOTES ON SPECIFICATIONS, MATERIAL,
 PAINTING, PUNCHING, DRILLING, REAMING, ETC.
 SEE SHEET X50

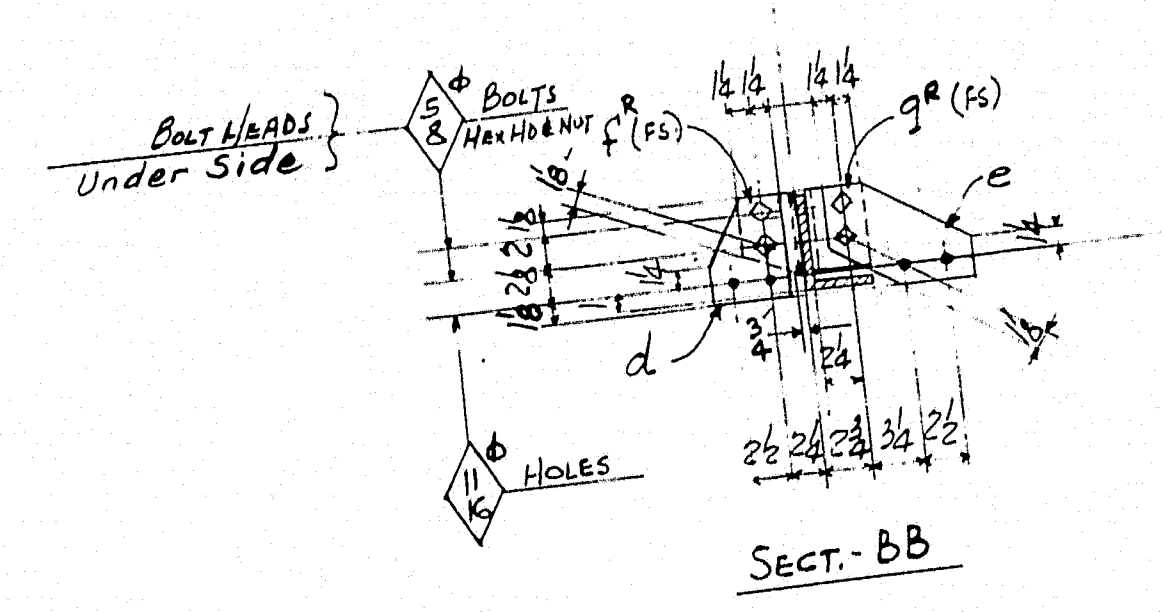
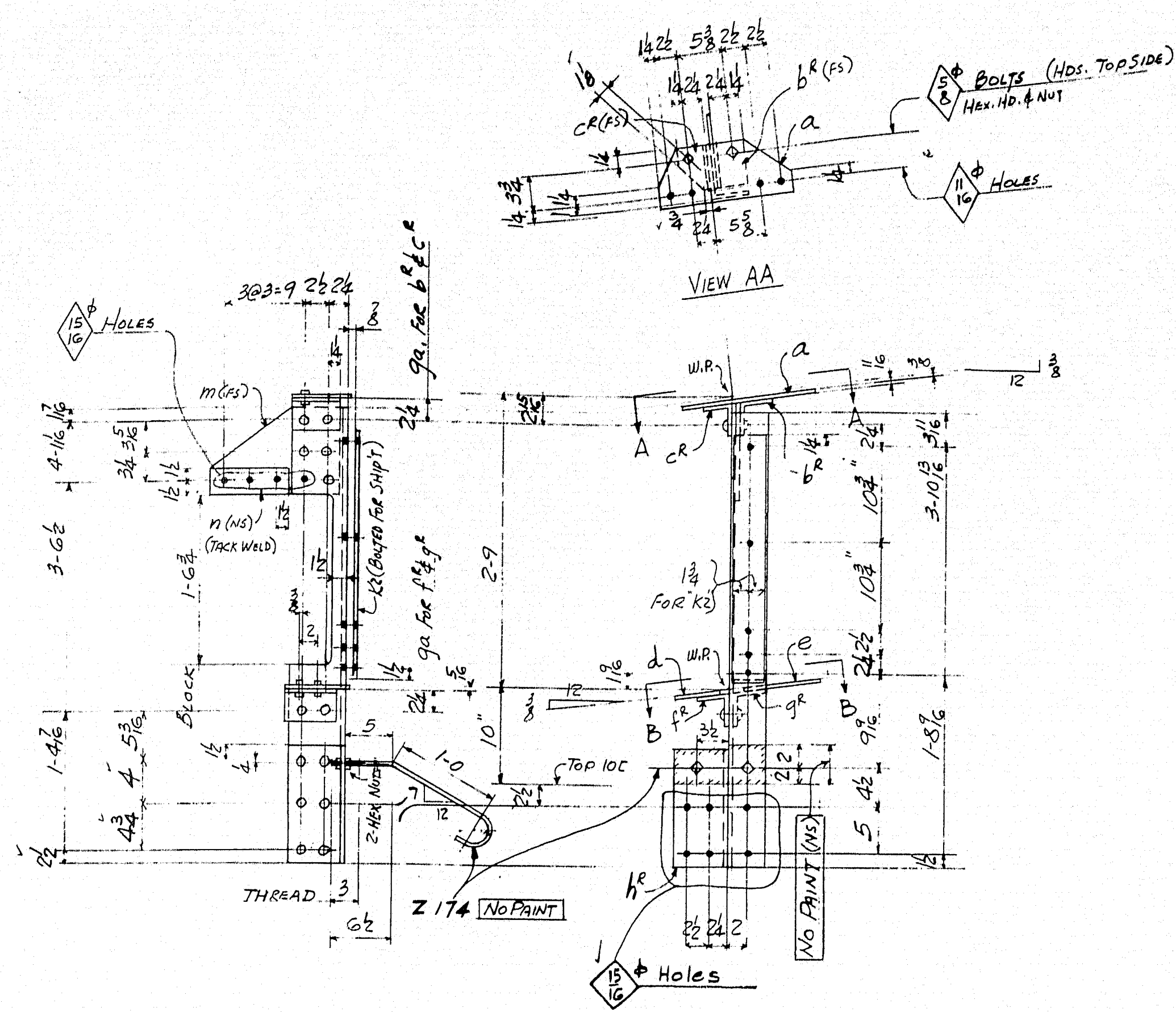
RAILING POSTS

REVISIONS

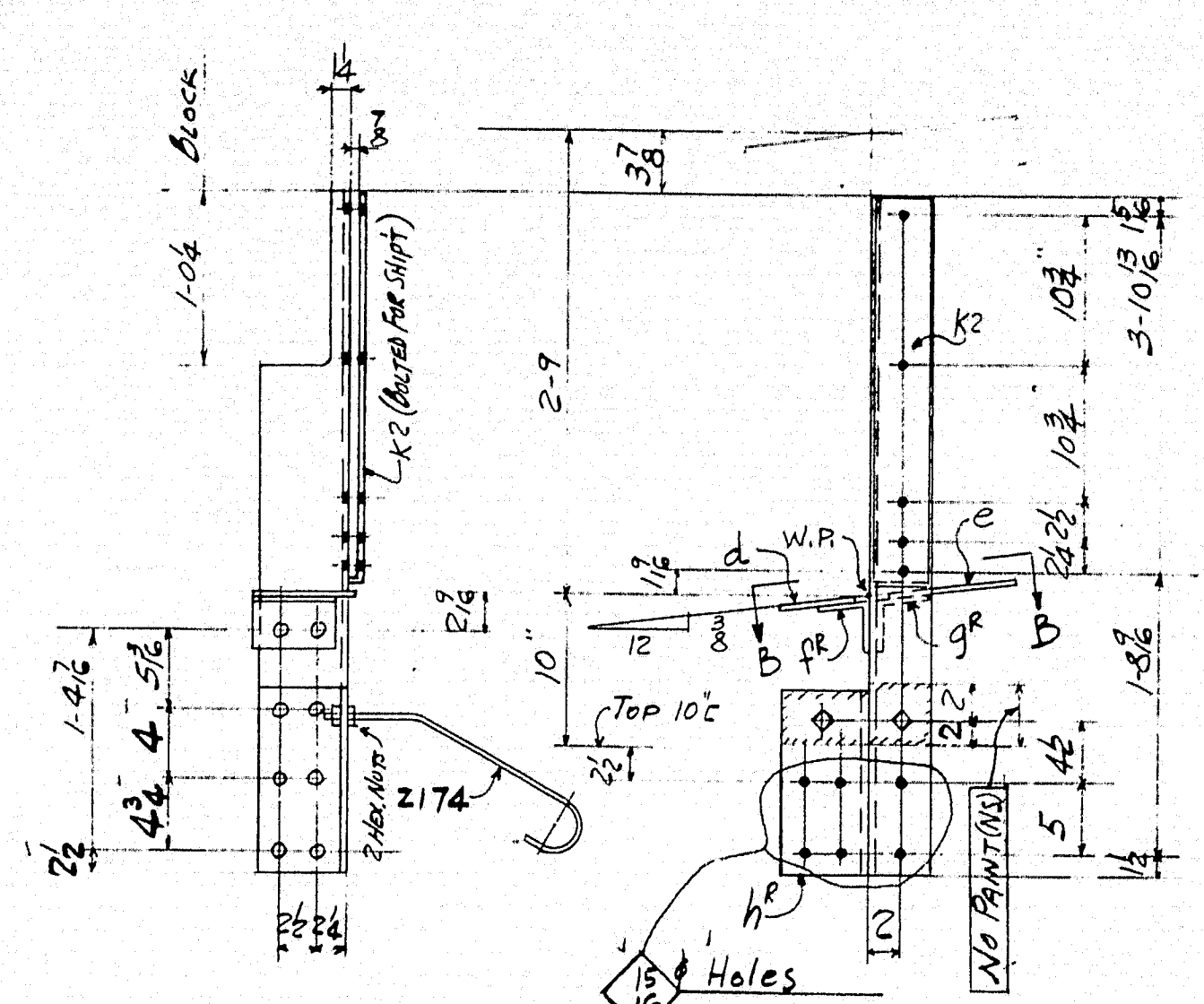
HARRIS STRUCTURAL STEEL CO.
 410 FOURTH AVE. N. Y.

DATE 1-9-50
 DATE 2-11-50
 CONTRACT No. C-273 SHEET No. 175

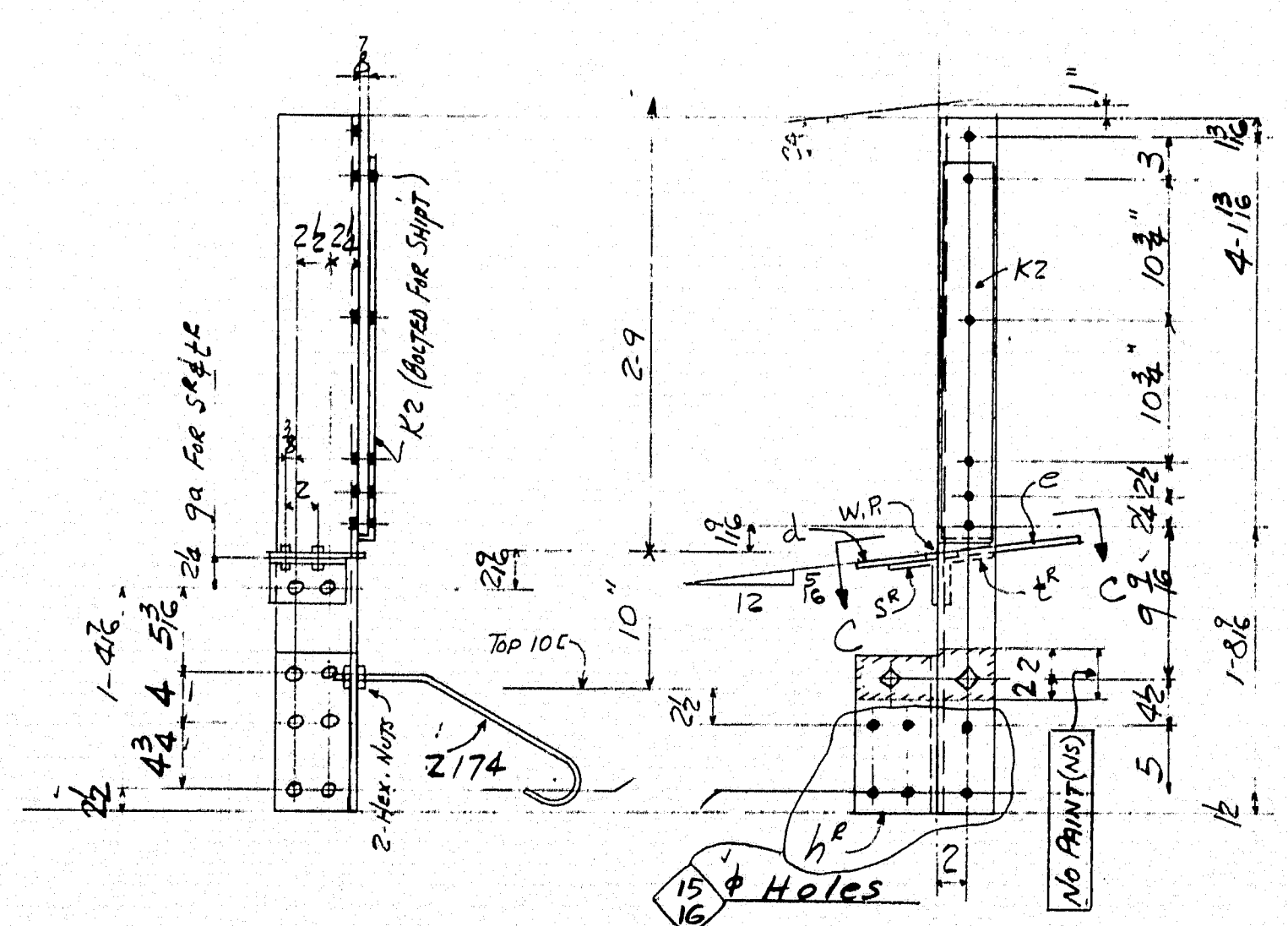
WORK THIS SHEET WITH SH. #105



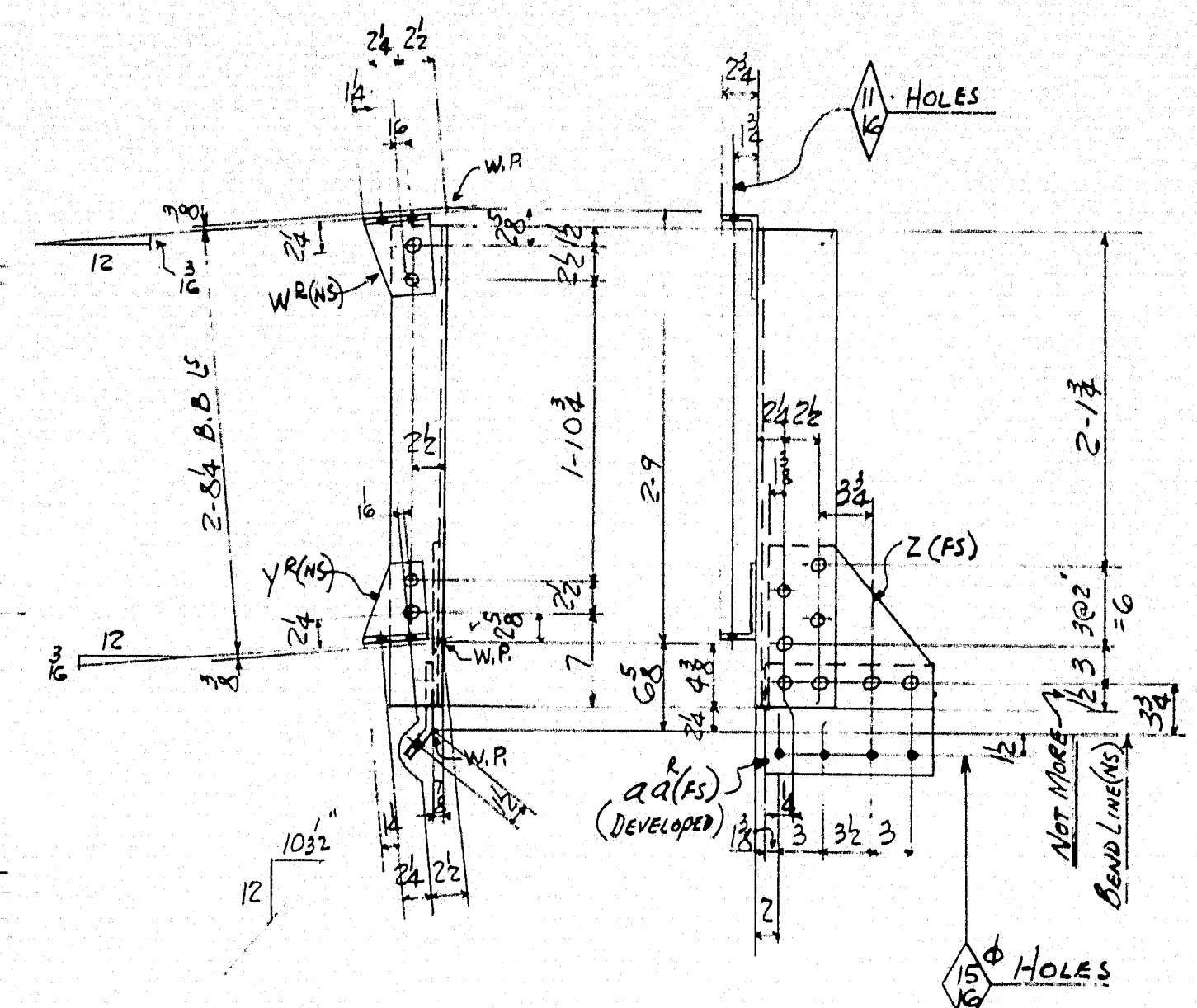
MAKE ONE POST - MARK R428 (AS SHOWN) WT. OF ONE 152"
 R429 (OPP HAND) do 152"
 R528 (AS SHOWN) do 152"
 MAKE ONE POST - MARK R529 (OPP HAND) do 152"



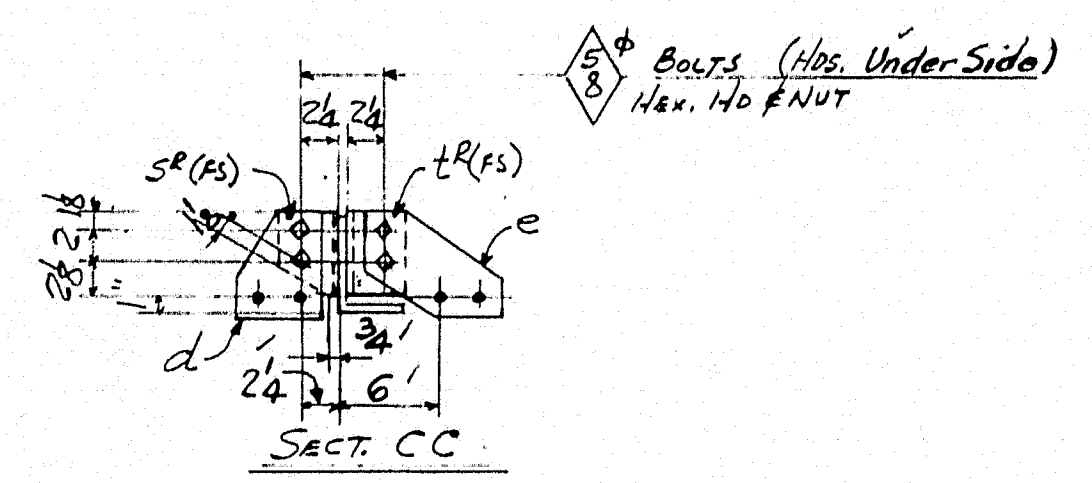
WT. OF ONE 117" MAKE ONE POST - MARK R468 (AS SHOWN)
 do 117" R470 (OPP HAND)
 do 117" R568 (AS SHOWN)
 do 117" MAKE ONE POST - MARK R569 (OPP HAND)



MAKE ONE POST - MARK R469 (AS SHOWN) WT. OF ONE 120"
 R471 (OPP HAND) do 120"
 R570 (AS SHOWN) do 120"
 MAKE ONE POST - MARK R571 (OPP HAND) do 120"



MAKE 2 POSTS - MARK R638 (AS SHOWN)
 MAKE 2 POSTS - MARK R639 (OPP HAND)
 WT. OF ONE 116.38 86"
 do 116.39 86"



FOR NOTES ON SPECIFICATIONS, MATERIAL,
 PAINTING, PUNCHING, DRILLING, REAMING, ETC.
 SEE SHEET X50

WORK THIS SHEET WITH SH. #174

REQ'D		MADE UP OF			
No	MARK	No	REMARKS	QTY	WEIGHT
1	R428	1	1 LG 4x2 4-26 AS SHOWN	108-3	68
1	R429	1	do 4-26 OPP HAND		68
1	R528	1	do 4-26 AS SHOWN		68
1	R529	1	do 4-26 OPP HAND		68
4	d	4	R 6x4x1/2 1-3/4	9-419-43	34
4	e	4	R 6x4x1/2 5 BENT	108-8	12
4	f	4	R 6x4x1/2 5 BENT	do	12
4	g	4	R 6x4x1/2 5 BENT	9-419-43	11
4	h	4	R 6x4x1/2 5 BENT	do	19
4	i	4	R 6x4x1/2 5 BENT	108-8	13
4	j	4	R 6x4x1/2 5 BENT	do	13
4	k	4	R 6x4x1/2 5 BENT	9-418-89	73
4	l	4	R 6x4x1/2 5 BENT	108-13	37
4	m	4	R 6x4x1/2 5 BENT	108-10	58
4	n	4	R 6x4x1/2 5 BENT	108-14	16
8	Z174	8	2-1/2" RIVETS 2-1/2" BENT 2 Hex. Nuts ea.	118-28	27
24		24	3/8" BOLTS 1/2" Hex. Nuts ea.	32943	4
8		8	3/8" BOLTS 1/2" Hex. Nuts ea.		3
52		52	3/8" RIVETS		12
1	R468	1	1 LG 4x2 4-08 AS SHOWN	108-3	65
1	R470	1	do 4-08 OPP HAND		65
1	R568	1	do 4-08 AS SHOWN		65
1	R569	1	do 4-08 OPP HAND		65
4	d	4	R 6x4x1/2 1-3/4	9-419-43	11
4	e	4	R 6x4x1/2 5 BENT	do	19
4	f	4	R 6x4x1/2 5 BENT	108-8	13
4	g	4	R 6x4x1/2 5 BENT	do	13
4	h	4	R 6x4x1/2 5 BENT	9-418-89	73
4	i	4	R 6x4x1/2 5 BENT	108-13	37
8	Z174	8	2 Hex. Nuts ea.	118-28	27
16		16	3/8" BOLTS 1/2" Hex. Nuts ea.	32943	3
8		8	3/8" BOLTS 1/2" Hex. Nuts ea.		3
32		32	3/8" RIVETS		8
1	R469	1	1 LG 4x2 4-3 AS SHOWN	108-3	69
1	R471	1	do 4-3 OPP HAND		69
1	R570	1	do 4-3 AS SHOWN		69
1	R571	1	do 4-3 OPP HAND		69
4	d	4	R 6x4x1/2 1-3/4	9-419-43	11
4	e	4	R 6x4x1/2 5 BENT	do	19
4	f	4	R 6x4x1/2 5 BENT	108-8	13
4	g	4	R 6x4x1/2 5 BENT	do	13
4	h	4	R 6x4x1/2 5 BENT	9-418-89	73
4	i	4	R 6x4x1/2 5 BENT	108-13	37
8	Z174	8	2 Hex. Nuts ea.	118-28	27
16		16	3/8" BOLTS 1/2" Hex. Nuts ea.	32943	3
8		8	3/8" BOLTS 1/2" Hex. Nuts ea.		3
32		32	3/8" RIVETS		8
2	R638	2	1 LG 4x2 3-04 AS SHOWN	108-3	98
2	R639	2	do 3-04 OPP HAND	do	98
4	WE	4	LG 2x3x1/2 4-3 CUT C-4 L	112-4	20
4	YR	4	do 4-3 do	do	20
4	Z	4	R 12x1/2 1-08 BENT	108-10	62
4	aa	4	R 12x1/2 84 BENT	9-423-4	51
48		48	3/8" RIVETS		12

Grasswt. 1927
 Net. wt. 1892
 Paint 8
 Total wt. 1900

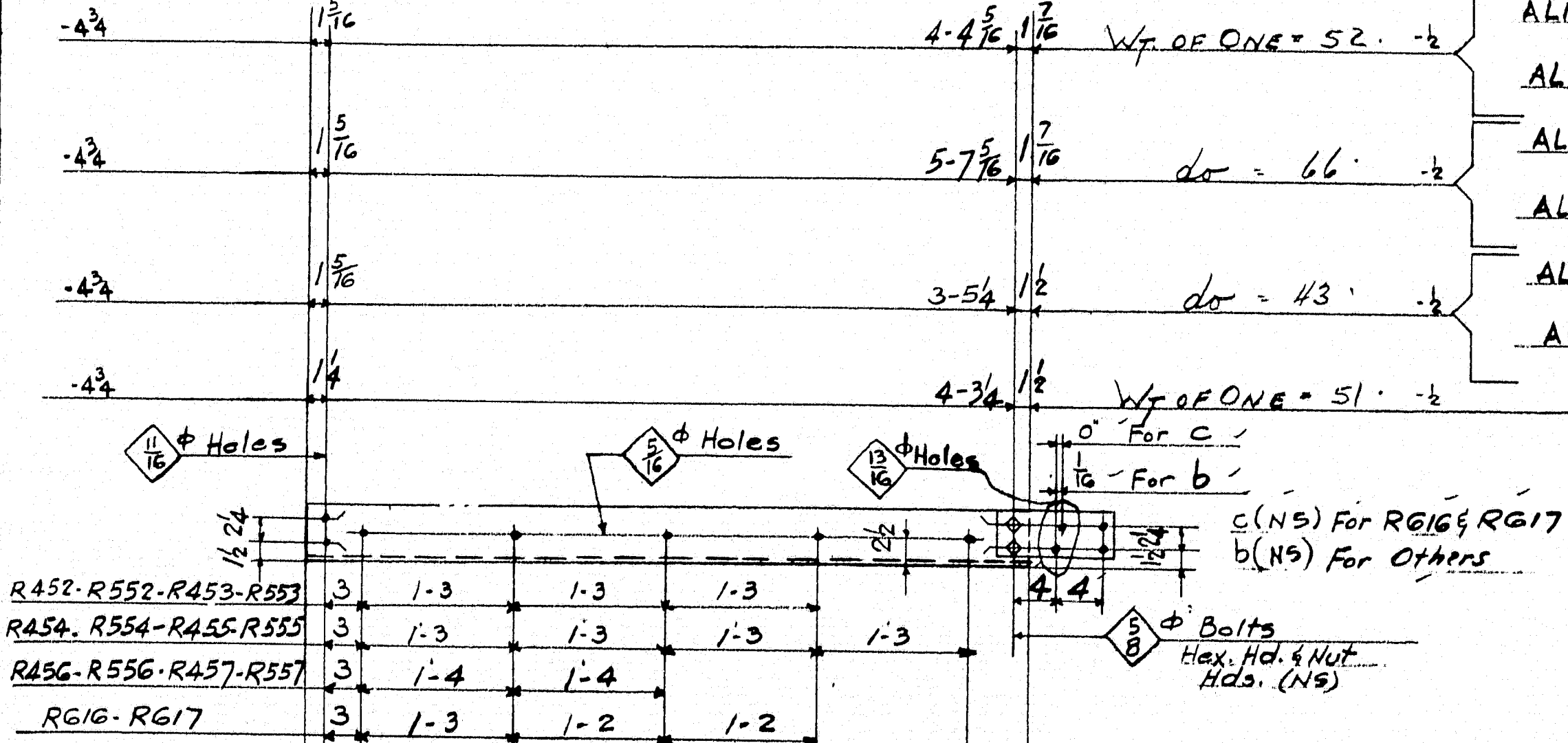
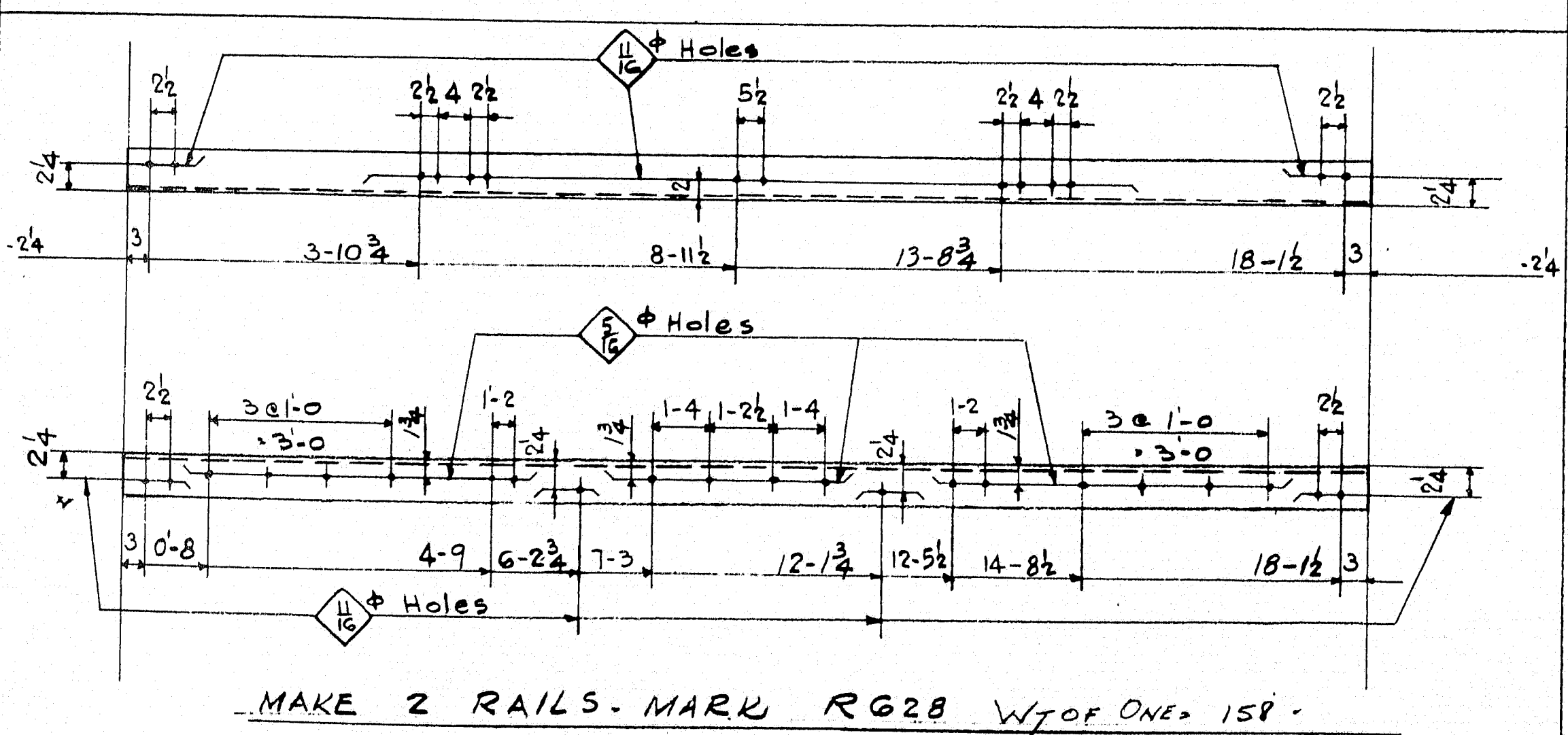
ARROWSIC BRIDGE OVER SASANOA RIVER
 ARROWSIC - WOOLWICH
 FED. AID PROJ. No. S-154 (2)
 CONTRACT No. 2

RAILING POSTS

HARRIS STRUCTURAL STEEL CO.
 619 FOURTH AVE., N. Y.

REVISIONS

DATE 1-12-50
 DATE 2-11-50
 CONTRACT No. S-378 SHEET No. 177



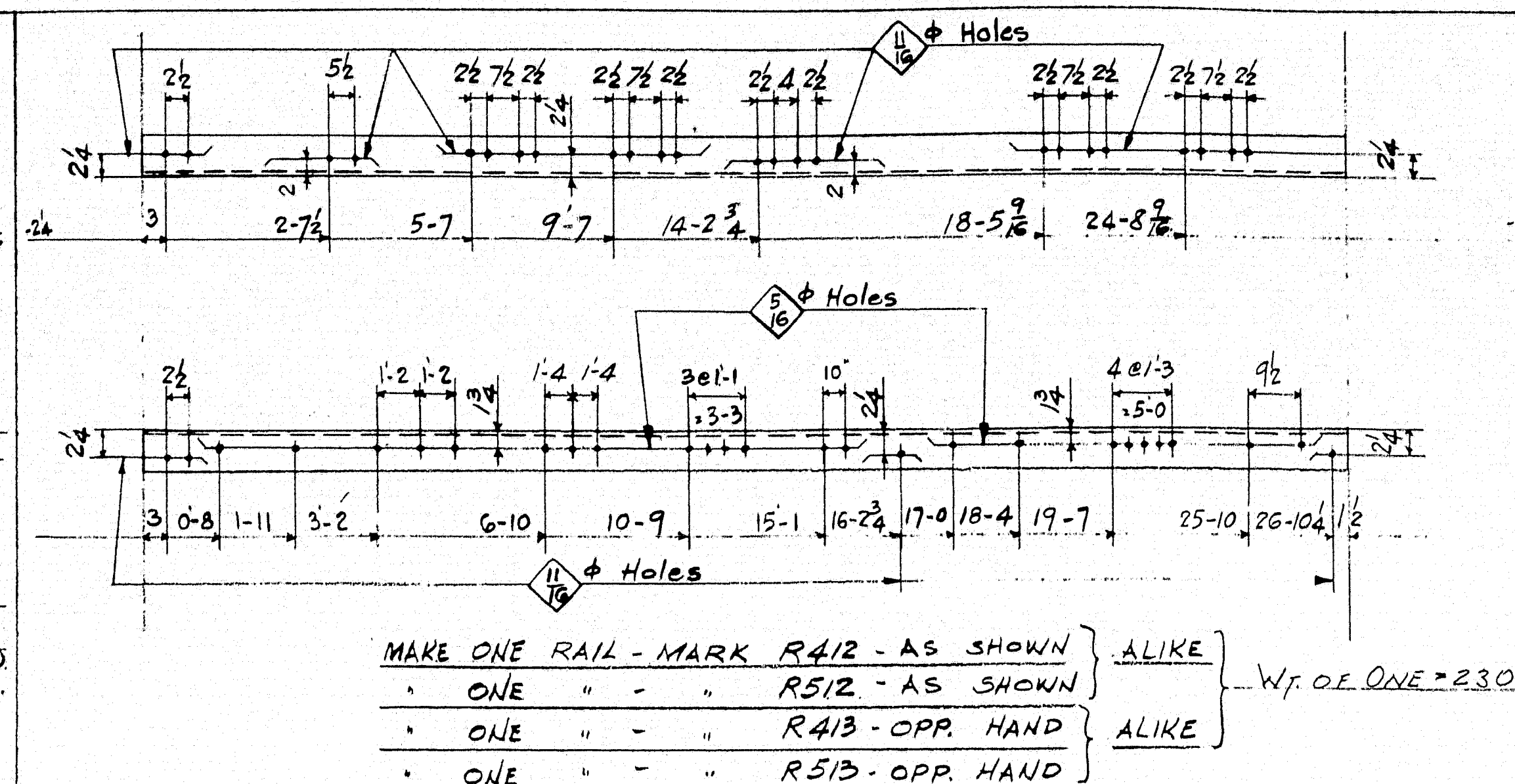
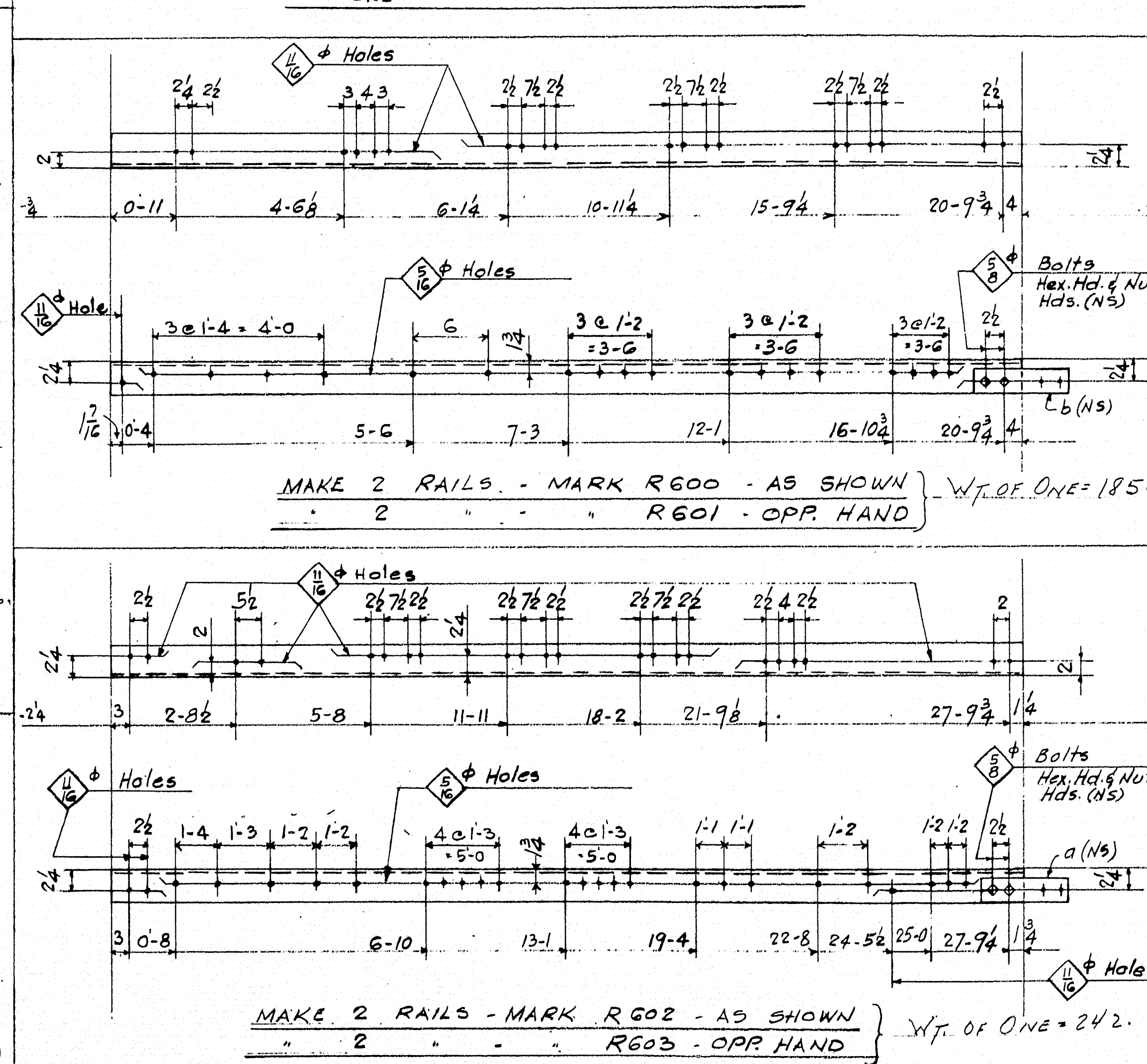
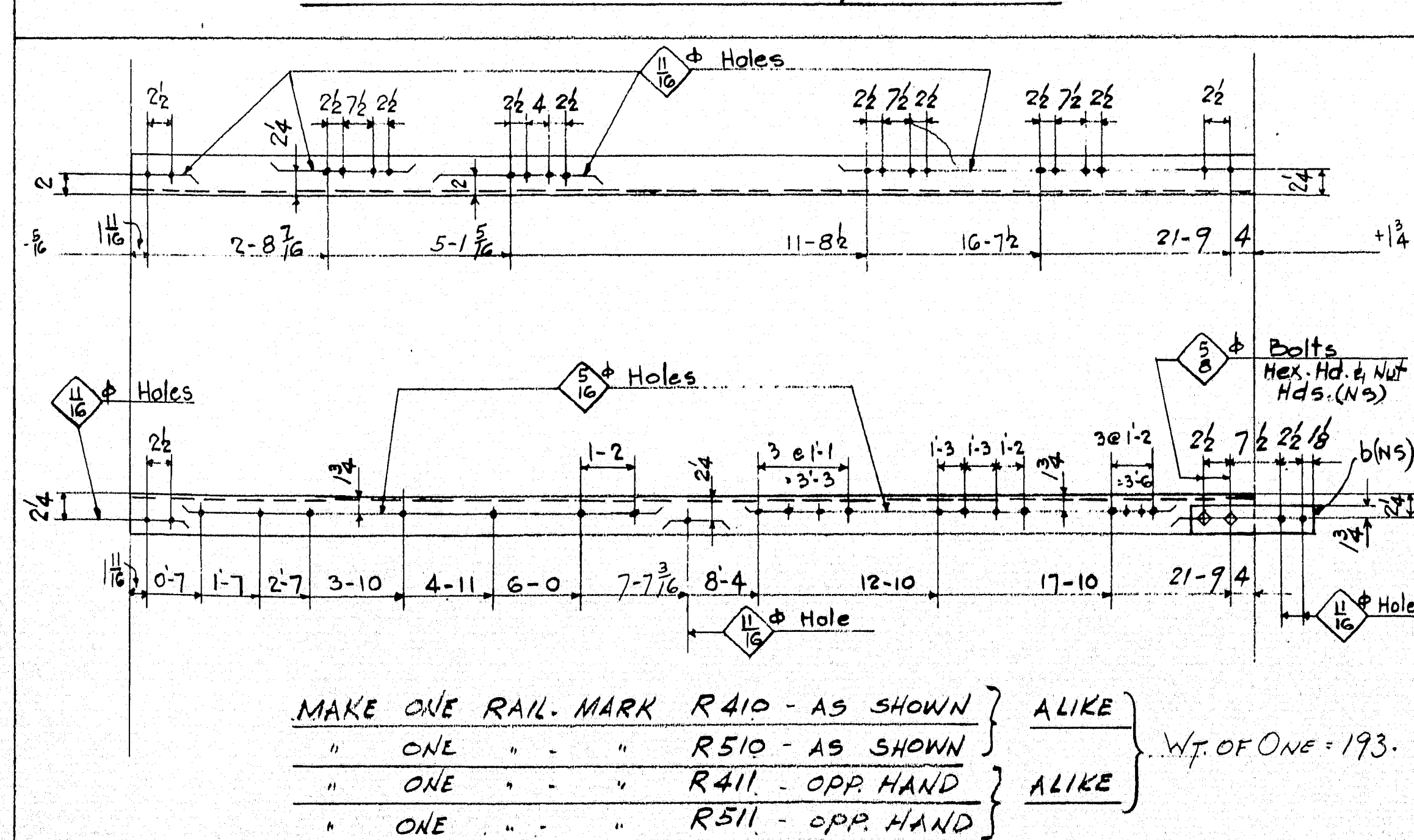
		REQ'D.		MADE UP OF						
		NO	MARK	NO	P.C. MK	SIZE	LGTH.	REMARKS	ORD.	WEIGHT
AS SHOWN OPP HAND		2	R604	2		L-3 1/2 x 3 1/2	22-0		108-5	374.
		2	R605	2		D _o	22-0		D _o	374.
				4	a	R 3 x 3/16	1-2 3/4		9-419-43	16
				8	Bolt	5/8	1/2	Hex. Hd. & Nut	32943	1.
AS SHOWN OPPR. HAND		2	R606	2		L-3 1/2 x 3 1/2	18-0 1/2		108-5	318.
		2	R607	2		D _o	18-0 1/2		D _o	318.
				4	a				9-419-43	16
				8	Bolt	5/8	1/2	Hex. Hd. & Nut	32943	1.
		2	R628	2		L-3 1/2 x 3 1/2	18-4 1/2		108-5	312.
				88	b	R 4 1/2 x 5/16	10 1/2		9-419-43	378.
				176	Bolt	5/8	1/2	Hex. Hd. & Nut	32943	32.
KE { AS SHOWN AS SHOWN		17	R440	17		L-5 1/2 x 3 1/2	5-9 3/4		9-418-87	1027.
		17	R540	17						1027.
KE { OPP HAND OPP HAND		17	R441	17						1027.
		17	R541	17						1027.
KE { AS SHOWN AS SHOWN		3	R472	3						181.
		3	R572	3						181.
KE { OPP HAND OPP HAND		3	R473	3						181.
		3	R573	3						181.
IKE { AS SHOWN AS SHOWN		1	R446	1						60.
		1	R546	1						60.
IKE { OPP HAND OPP HAND		1	R447	1						60.
		1	R547	1						60.
IKE { AS SHOWN AS SHOWN		1	R444	1						60.
		1	R544	1						60.
IKE { OPP HAND OPP HAND		1	R445	1						60.
		1	R545	1		L-5 1/2 x 3 1/2	5-9 3/4			60.
KE { AS SHOWN AS SHOWN		2	R452	2		L-5 1/2 x 3 1/2	4-5 3/4		9-418-87	93.
		2	R552	2						93.
IKE { OPP HAND OPP HAND		2	R453	2						93.
		2	R553	2			4-5 3/4			93.
IKE { AS SHOWN AS SHOWN		1	R454	1			5-8 3/4			60.
		1	R554	1						60.
IKE { OPP HAND OPP HAND		1	R455	1						60.
		1	R555	1			5-8 3/4			60.
IKE { AS SHOWN AS SHOWN		1	R456	1			3-6 3/4			37.
		1	R556	1						37.
IKE { OPP HAND OPP HAND		1	R457	1						37.
		1	R557	1			3-6 3/4			37.
KE { AS SHOWN OPP HAND		6	R616	6			4-4 3/4			275.
		6	R617	6		L-5 1/2 x 3 1/2	4-4 3/4			275.
		16	b						9-419-43	69.
		56	Bolt		5/8	1/2		Hex. Hd. & Nut	32943	10.
		12	c		R 4 1/2 x 5/16	10 1/2			9-419-43	52.
Gross Wt.										8893.
Wt. Ded.										
Net Wt.										8893.
Paint.										35.
Tot. Wt.										8928.

ARROWSIC BRIDGE OVER SASANOVA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

RAILINGS - SPANS 3, 4 & 5

FOR NOTES ON SPECIFICATIONS, MATERIAL,
PAINTING, PUNCHING, DRILLING, REAMING, ETC
SEE SHEET X 50

BOLTS	5	DIAM.	OPEN HOLES	13	DIMS	HARRIS STRUCTURAL STEEL CO. 419 FOURTH AVE., N. Y.
			UNLESS OTHERWISE NOTED		NOTED	
REVISIONS						DRAWN, MADE BY <u> LK </u> DATE <u> 1-23-50 </u> DRAWN, CHECKED BY <u> HLC </u> DATE <u> 2-11-50 </u> CONTRACT No. <u> C370 </u> SHEET No. <u> 178 </u>

[illegible]

	Gross Wt.	5207.
	Wt. Dk.	
	Pkt Wt.	5207.
	Paint.	21.
-A	Tot. Wt.	5228.

ARROWSIC BRIDGE OVER SASANOVA RIVE
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 6

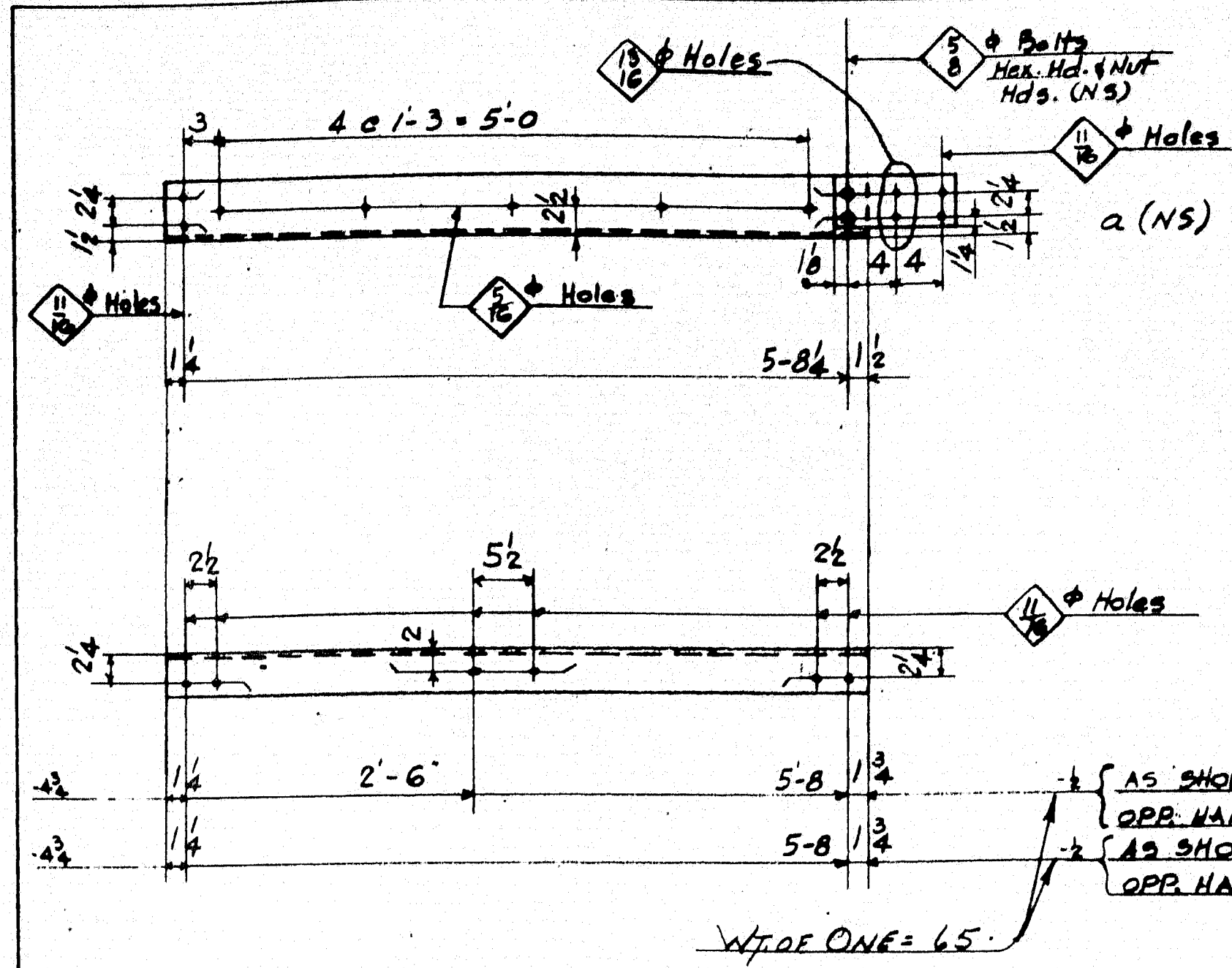
RAILINGS - SPANS 3, 4 & 5

FOR NOTES ON SPECIFICATIONS, MATERIAL,
PAINTING, PUNCHING, DRILLING, REAMING, ETC.
SEE SHEET X50

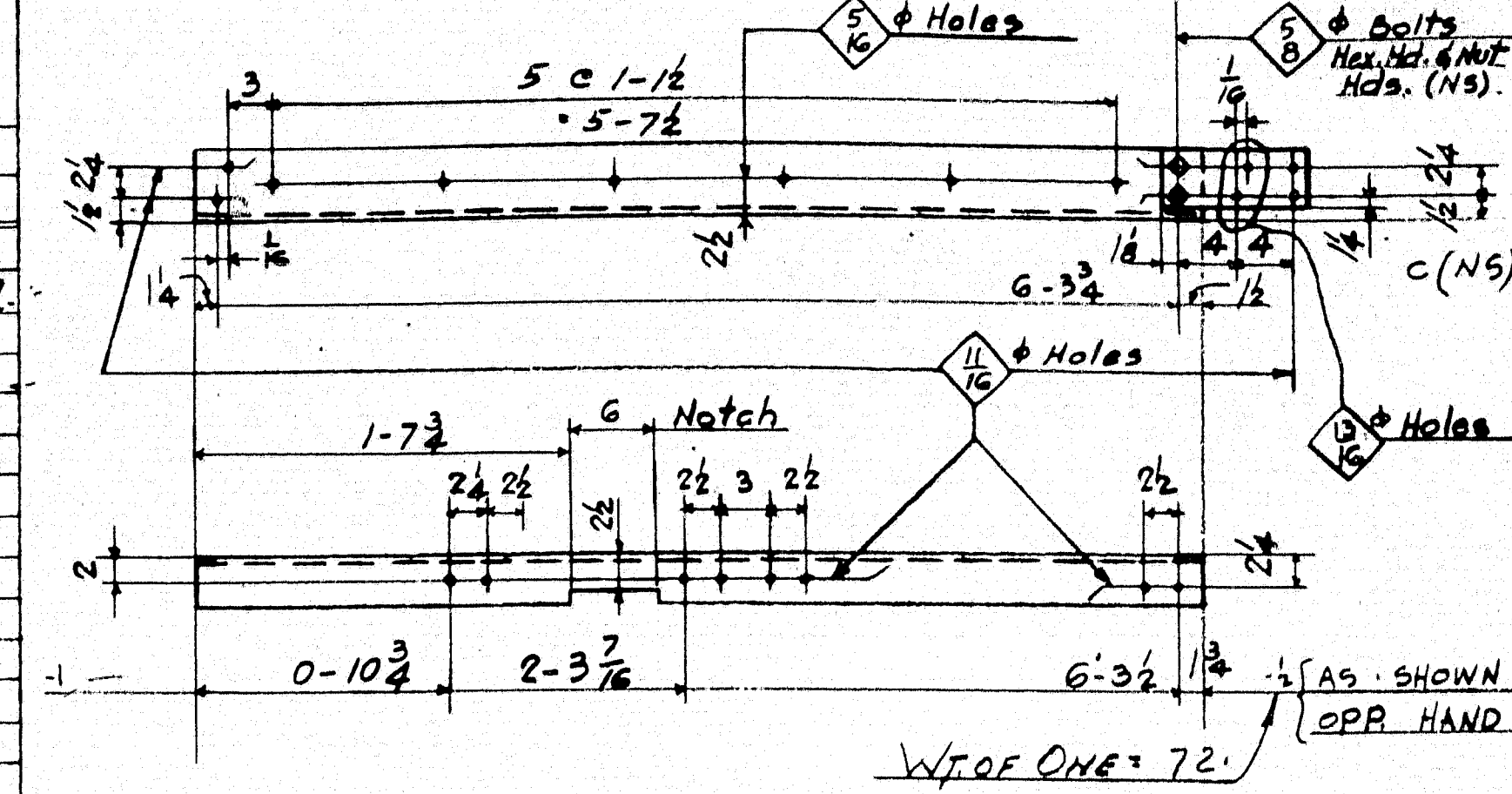
BOLTS	5/8	DIAM.	OPEN HOLES	AS DIAM NOTED
UNLESS OTHERWISE NOTED				
REVISIONS				

HARRIS STRUCTURAL STEEL CO.
419 FOURTH AVE., N. Y.

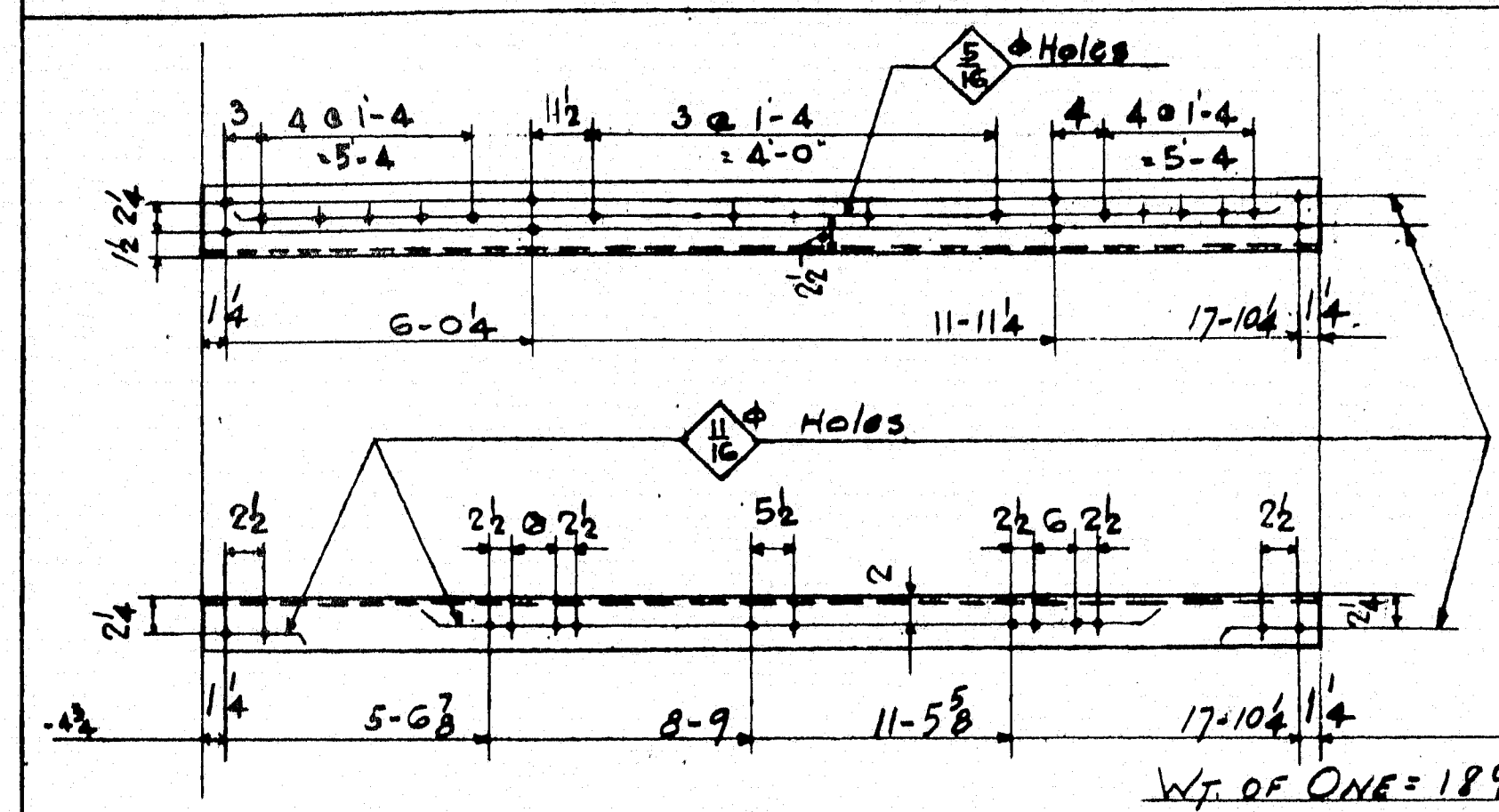
DRAW. MADE BY LK C. TO 1-18-5
DRAW. CHECKED BY HJ DATE 3/11-5
CONTRACT NO. C 37A SHEET NO. 179



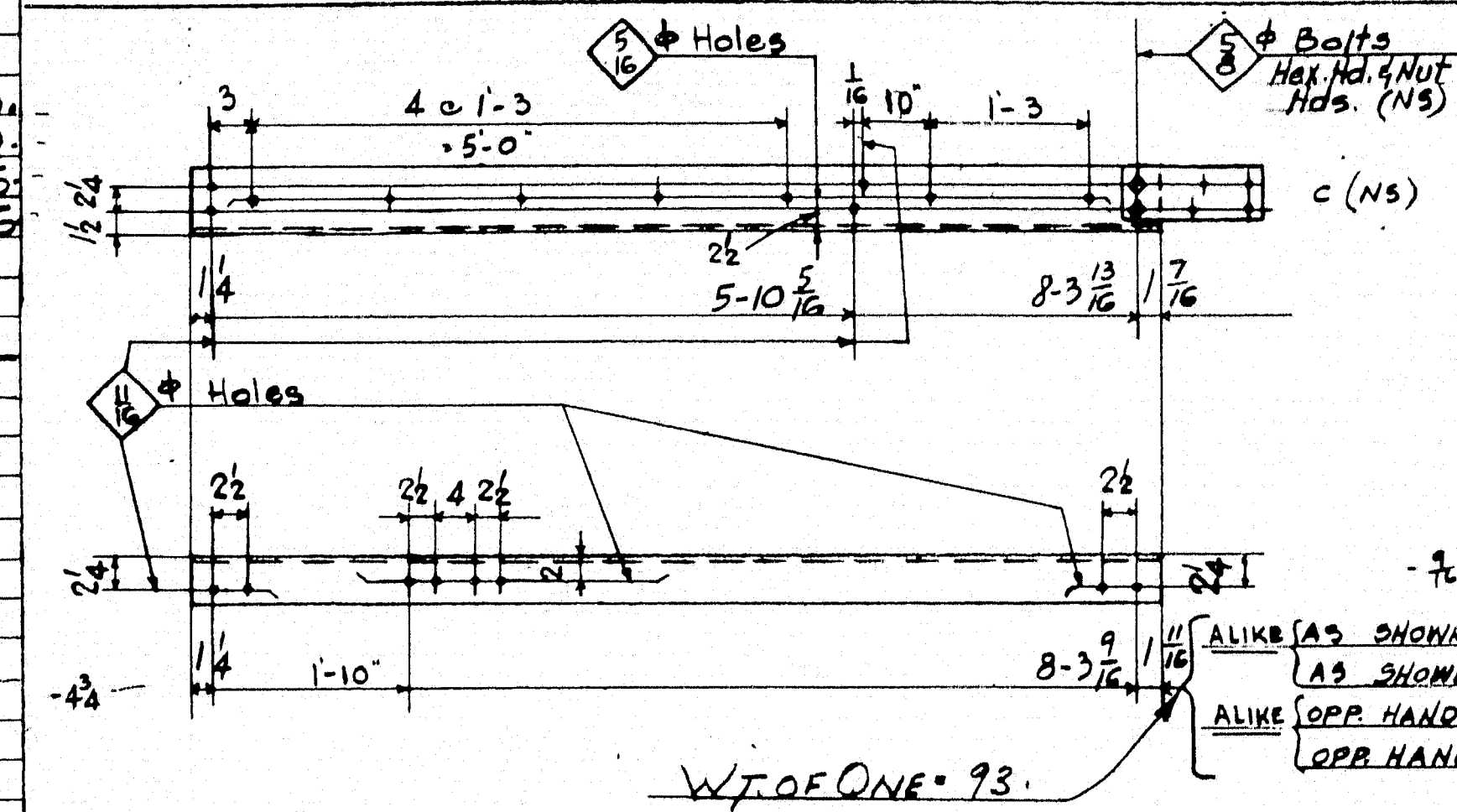
REQ'D.		MADE UP OF				
NO	MARK	NO	PC.MK.	SIZE	LGTH.	REMARKS
		32	a	# 4 1/2 x 3/4	10 1/2	9-419-43
		6	Bolt	5/8 x 1/2		Hex. Hd. & Nut 32943
		4	R618	4	L-5 3/4 x 3/8	5-9 3/4
		4	R619	4		
		12	R620	12		
		12	R621	12		



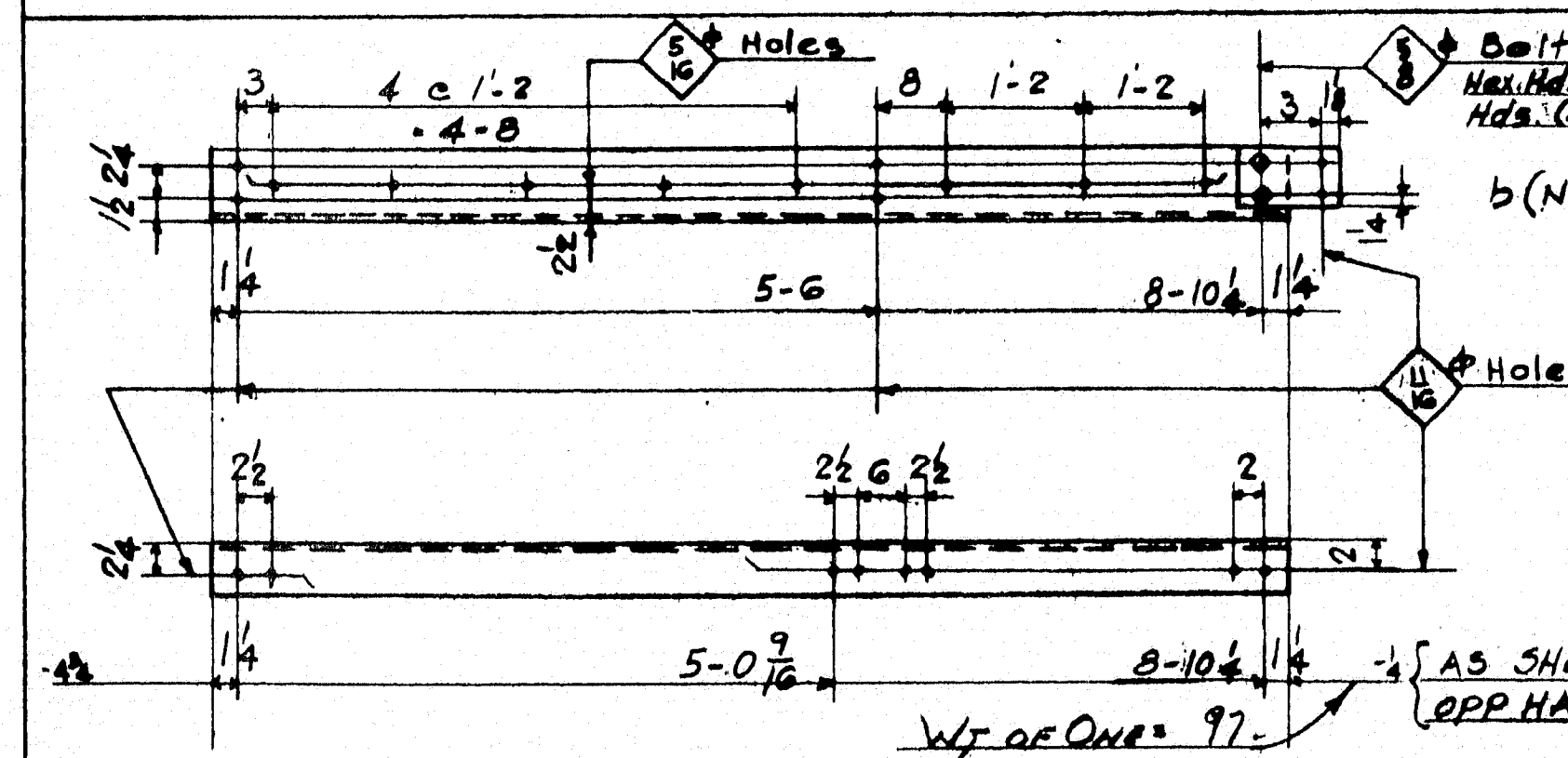
REQ'D.		MADE UP OF				
NO	MARK	NO	PC.MK.	SIZE	LGTH.	REMARKS
		4	c	# 4 1/2 x 1/2	10 1/2	9-419-43
		8	Bolt	5/8 x 1/2		Hex. Hd. & Nut 32943
		2	R614	2	L-5 3/4 x 3/8	6-5 1/2
		2	R615	2	Do	6-5 1/2



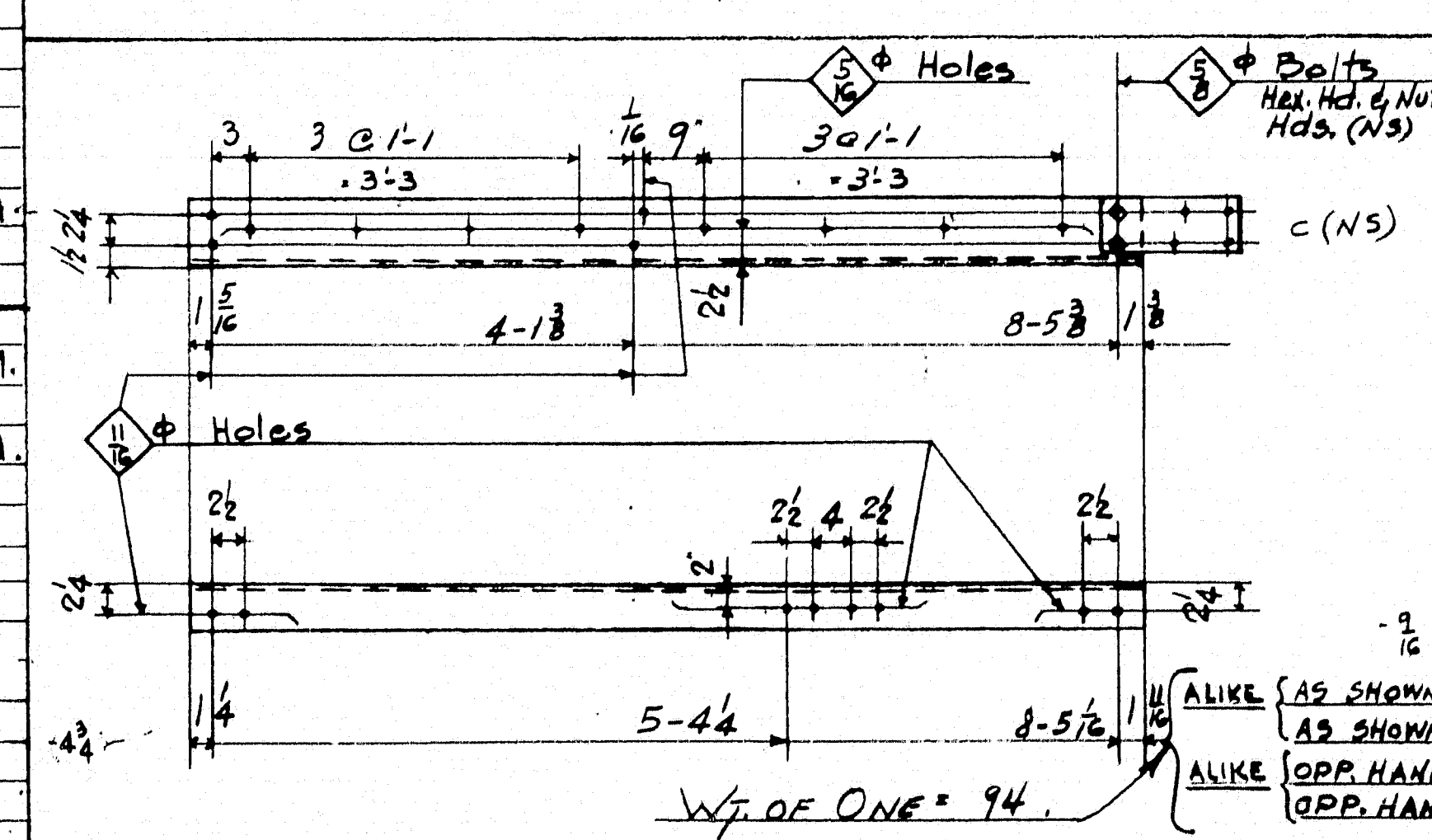
2	R630	2		L-5 3/4 x 3/8	17-11 1/2	9-418-87
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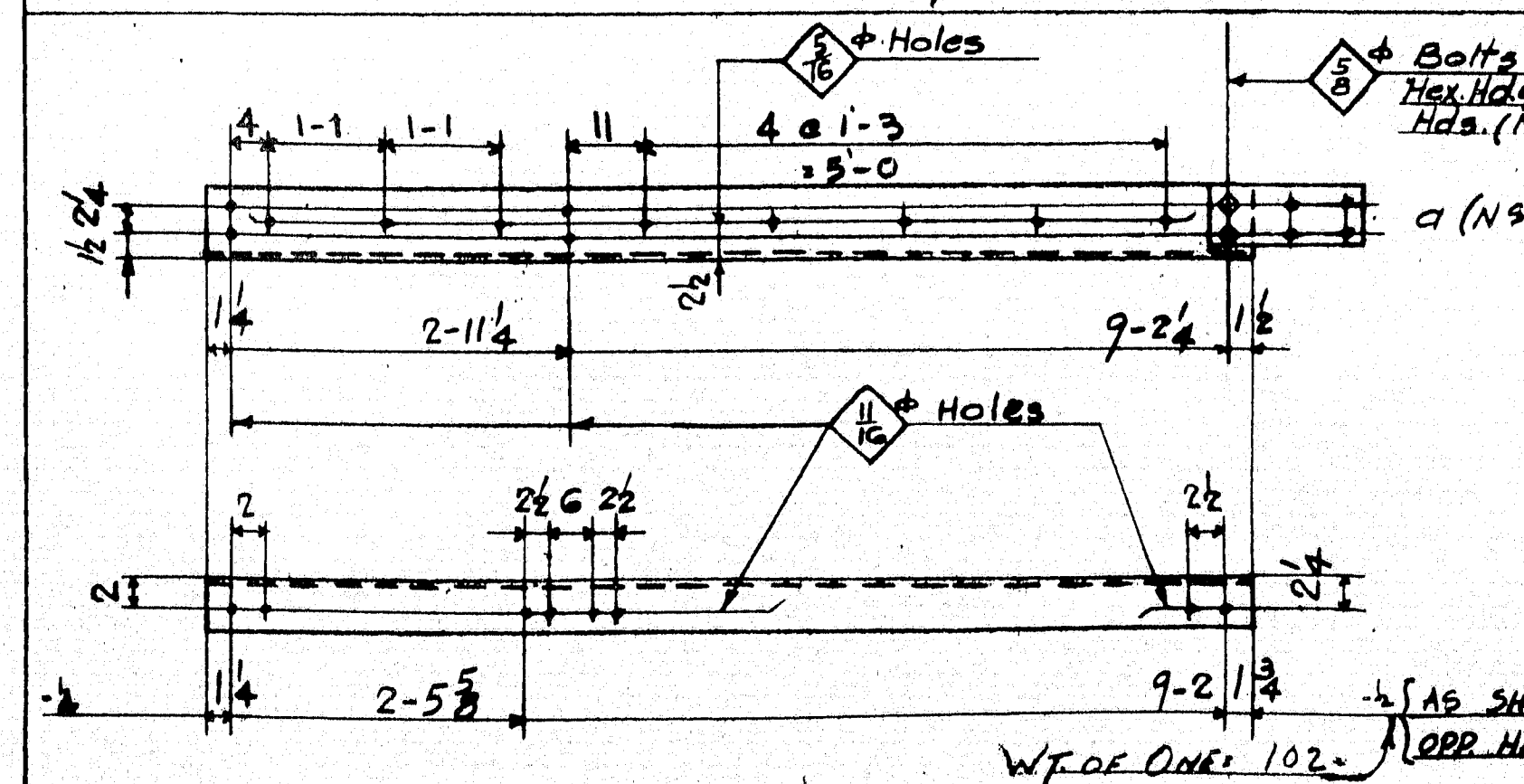
4	c					9-419-43
8	Bolt	5/8 x 1/2				Hex. Hd. & Nut 32943
1	R458	1		L-5 3/4 x 3/8	8-5 1/2	9-418-87
1	R558	1				
1	R459	1				
1	R559	1				



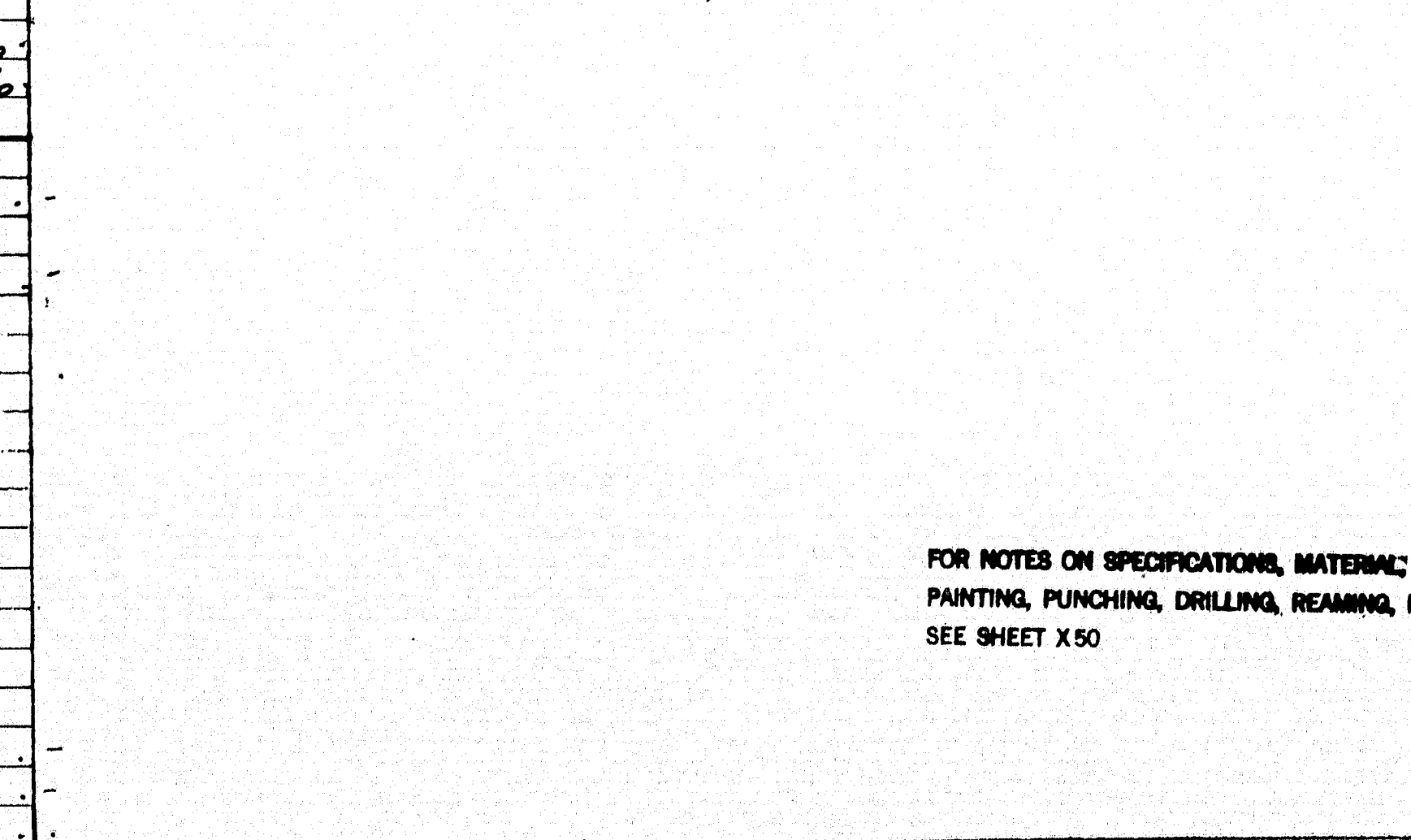
4	b			# 4 1/2 x 3/4	5 1/2	9-419-43
8	Bolt	5/8 x 1/2				Hex. Hd. & Nut 32943
2	R622	2		L-5 3/4 x 3/8	8-11 1/2	9-418-87
2	R623	2		Do	8-11 1/2	Do



4	c					9-419-43
8	Bolt	5/8 x 1/2				Hex. Hd. & Nut 32943
1	R450	1		L-5 3/4 x 3/8	8-6 1/2	9-418-87
1	R550	1				
1	R451	1				
1	R551	1				



4	a					9-419-43
8	Bolt	5/8 x 1/2				Hex. Hd. & Nut 32943
2	R624	2		L-5 3/4 x 3/8	9-3 1/2	9-418-87
2	R625	2		Do	9-3 1/2	Do



1	R450	1		L-5 3/4 x 3/8	8-6 1/2	9-418-87
1	R550	1				
1	R451	1				
1	R551	1				
Gross Wt.						1275
Net Wt.						4273
Paint Wt.						17
Total Wt.						4290

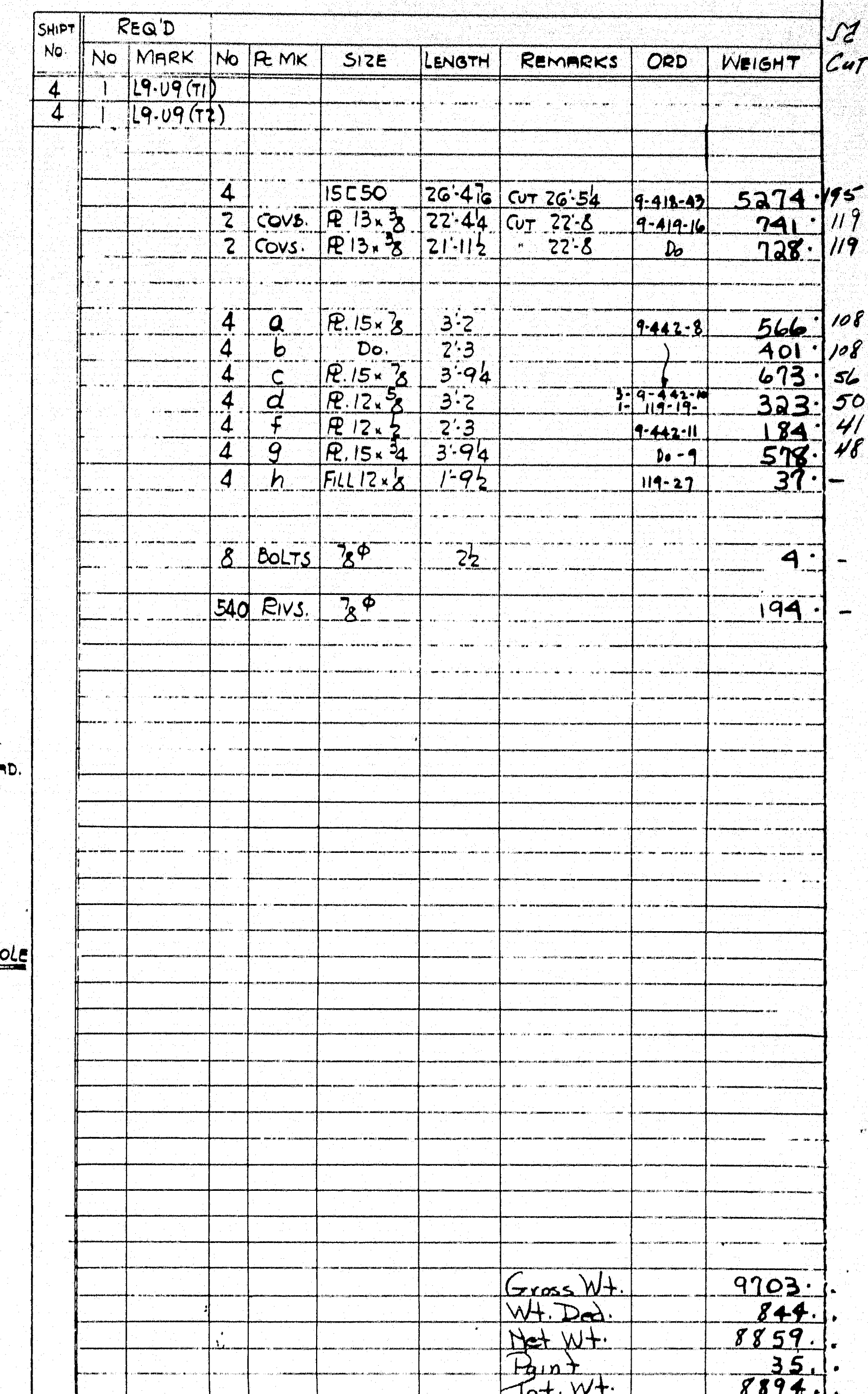
ARROWSIC BRIDGE OVER SASANOA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

RAILINGS - SPAN 4

FOR NOTES ON SPECIFICATIONS, MATERIAL,
PAINTING, PUNCHING, DRILLING, REAMING, ETC.
SEE SHEET X50

REV.	DATE	BY	CHKD.
1	1-26-50	LK	
2	2-1-50	MLJ	

MARRIS STRUCTURAL STEEL CO.
610 FORTH AVE., N. Y.
DRAWN BY LK DATE 1-26-50
CHECKED BY MLJ DATE 2-1-50
CONTRACT No. C-378 SHEET No. 180



L
J.
VL

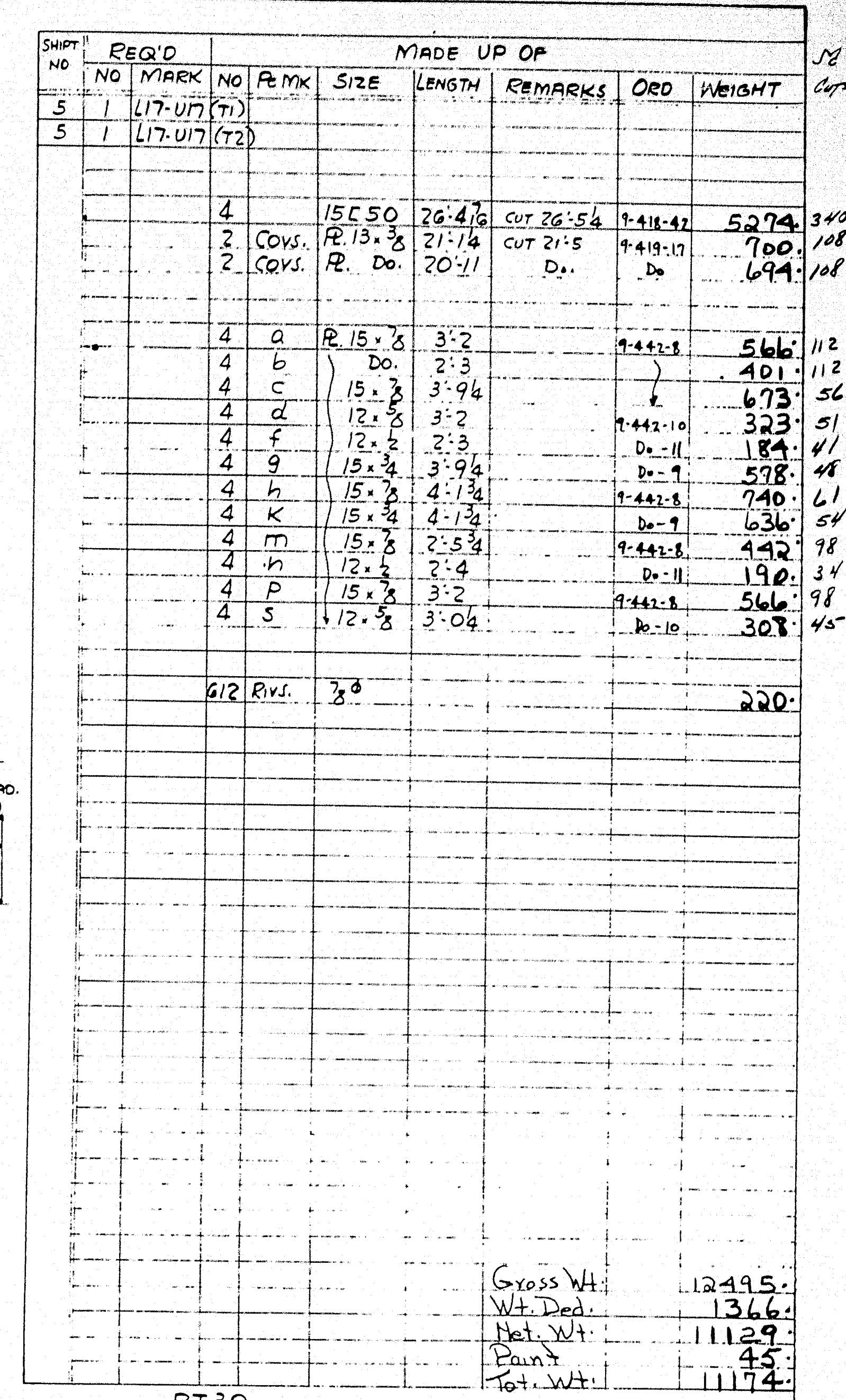
ARROWSIC BRIDGE OVER SASANOVA RIVER
ARROWSIC - WOOLWICH
FED. AID PROJ. No. S-154 (2)
CONTRACT No. 2

HANGER L9-U9 (T1) & (T2)

FOR NOTES ON SPECIFICATIONS, MATERIAL,
PAINTING, PUNCHING, DRILLING, REAMING, ETC.
SEE SHEET X50
ALL RIVET HOLES & OPEN HOLES
PUNCHED FULL SIZE UNLESS
NOTED RA OR RT

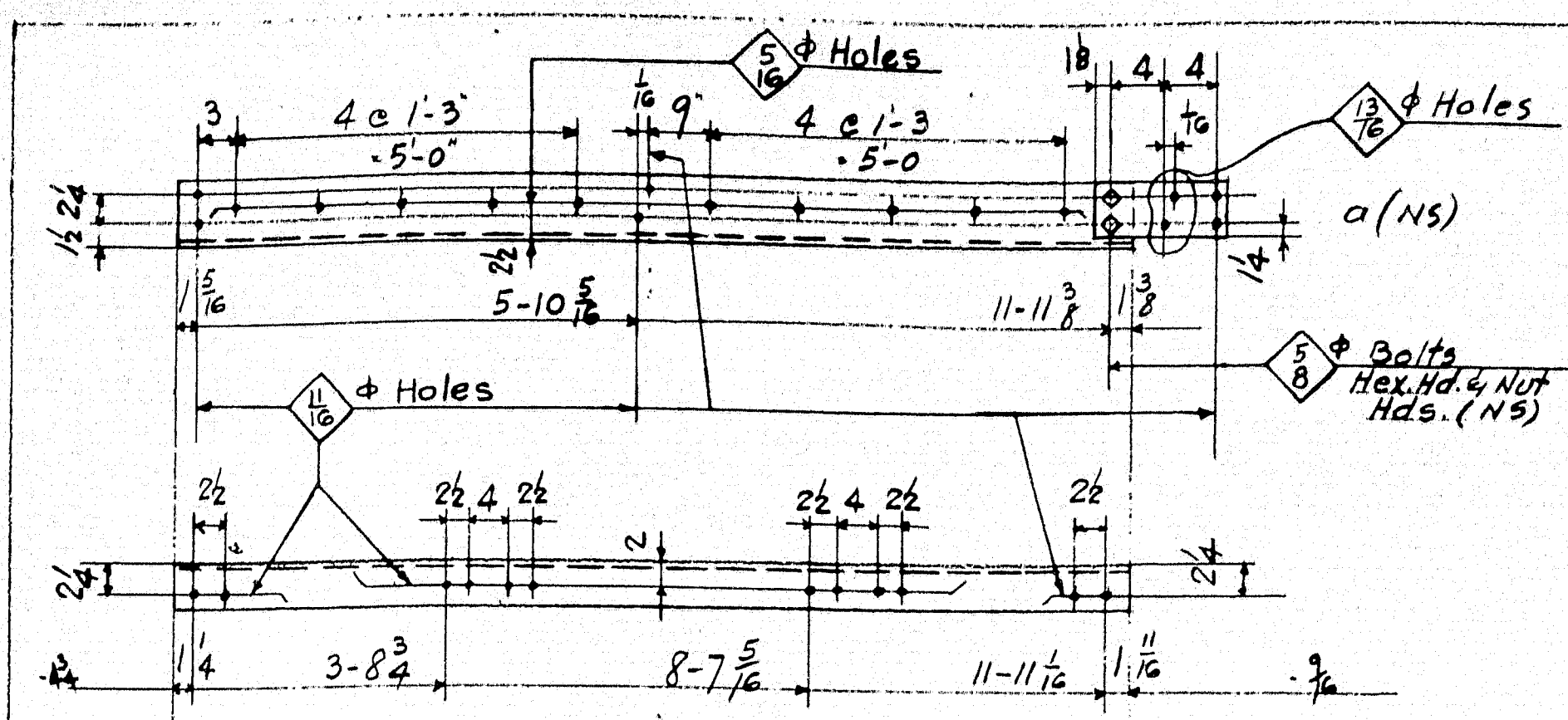
WORK THIS SHEET WITH SHEET 182 FOR
TEMPLATES

RIVETS <u>3</u>	DIAM. <u>1/8"</u>	OPEN HOLES <u>1/8"</u>	DIAM. <u>1/8"</u>	HARRIS STRUCTURAL STEEL CO. 680 FOURTH AVE., N. Y.
UNLESS OTHERWISE NOTED				
REVISIONS				
		STEEL MADE BY <u>JWY</u>	DATE <u>1/18/50</u>	
		DRAWN, CHECKED BY <u>W.P.</u>	DATE <u>1-20-50</u>	
		CONTRACT No. <u>5378</u>	SHEET No. <u>181</u>	

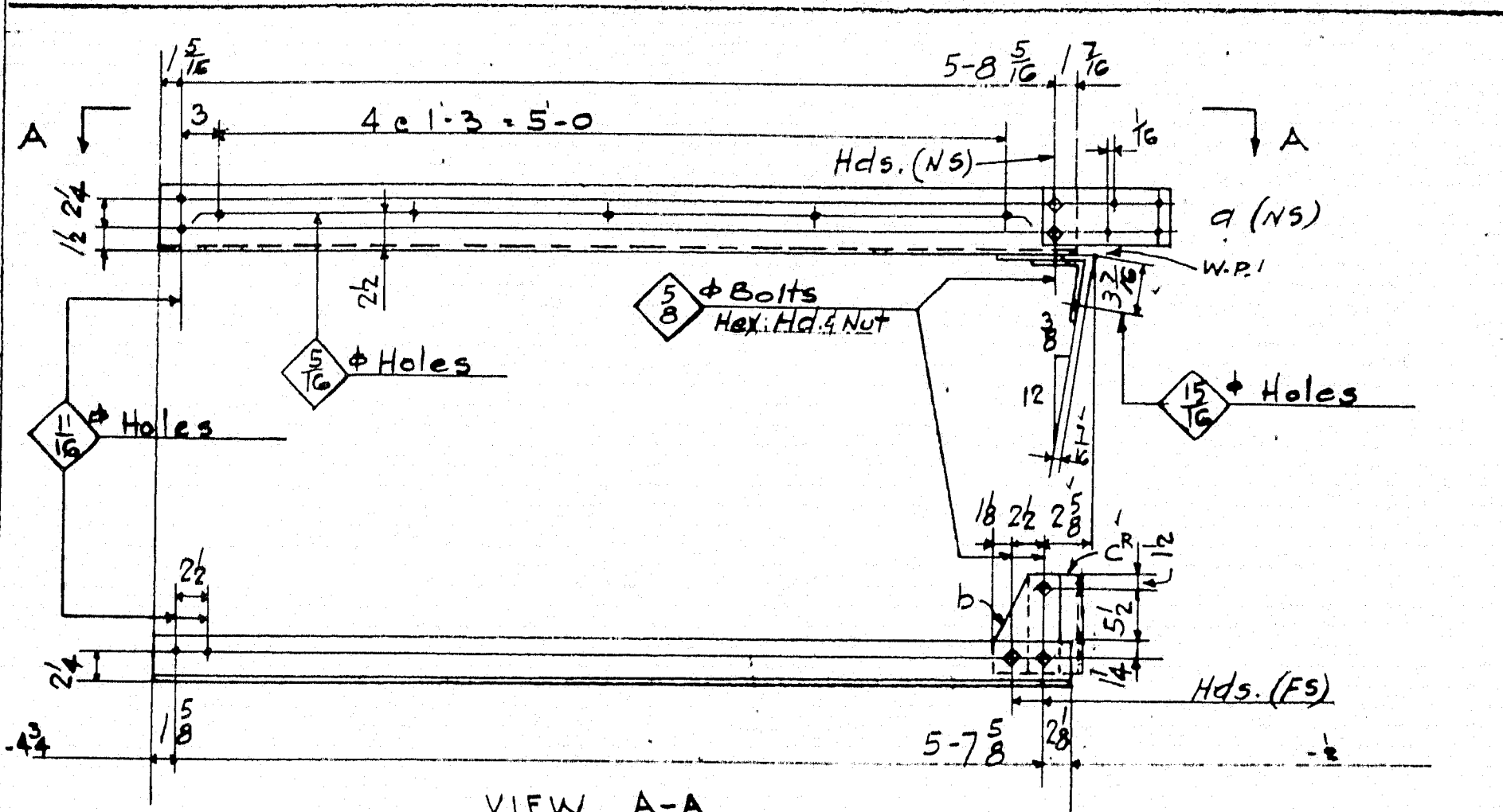


RIVETS	8	DIAM.	OPEN HOLES	1/8	DIAM.
UNLESS OTHERWISE NOTED					
REVISIONS					

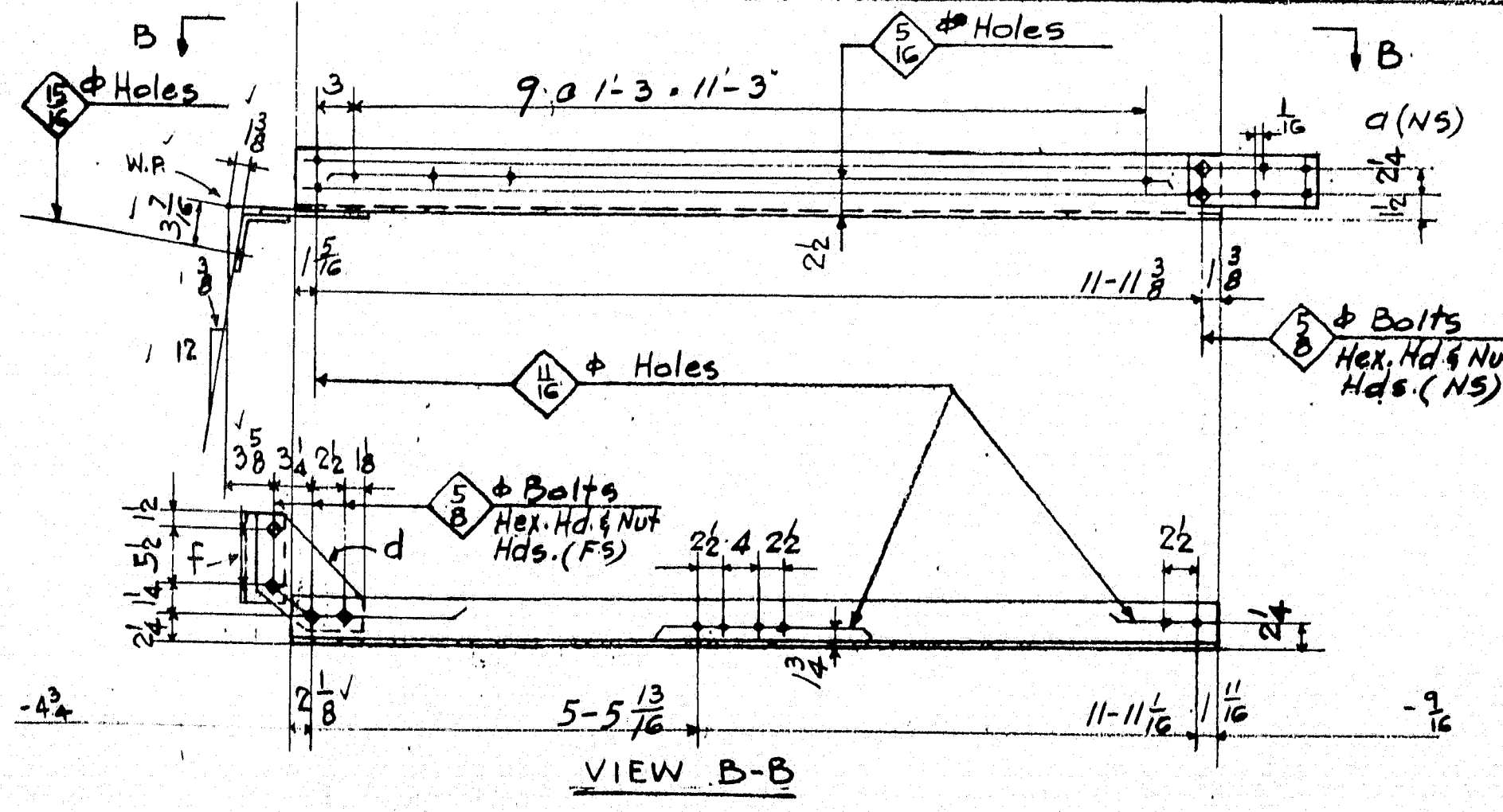
HARRIS STRUCTURAL STEEL CO.
 419 FOURTH AVE., N. Y.
 DRAWN, MADE BY JWY DATE 11/9/50
 CHECKED BY W.P. DATE 1/30/51
 CONTRACT No. 5378 SHEET No. 182



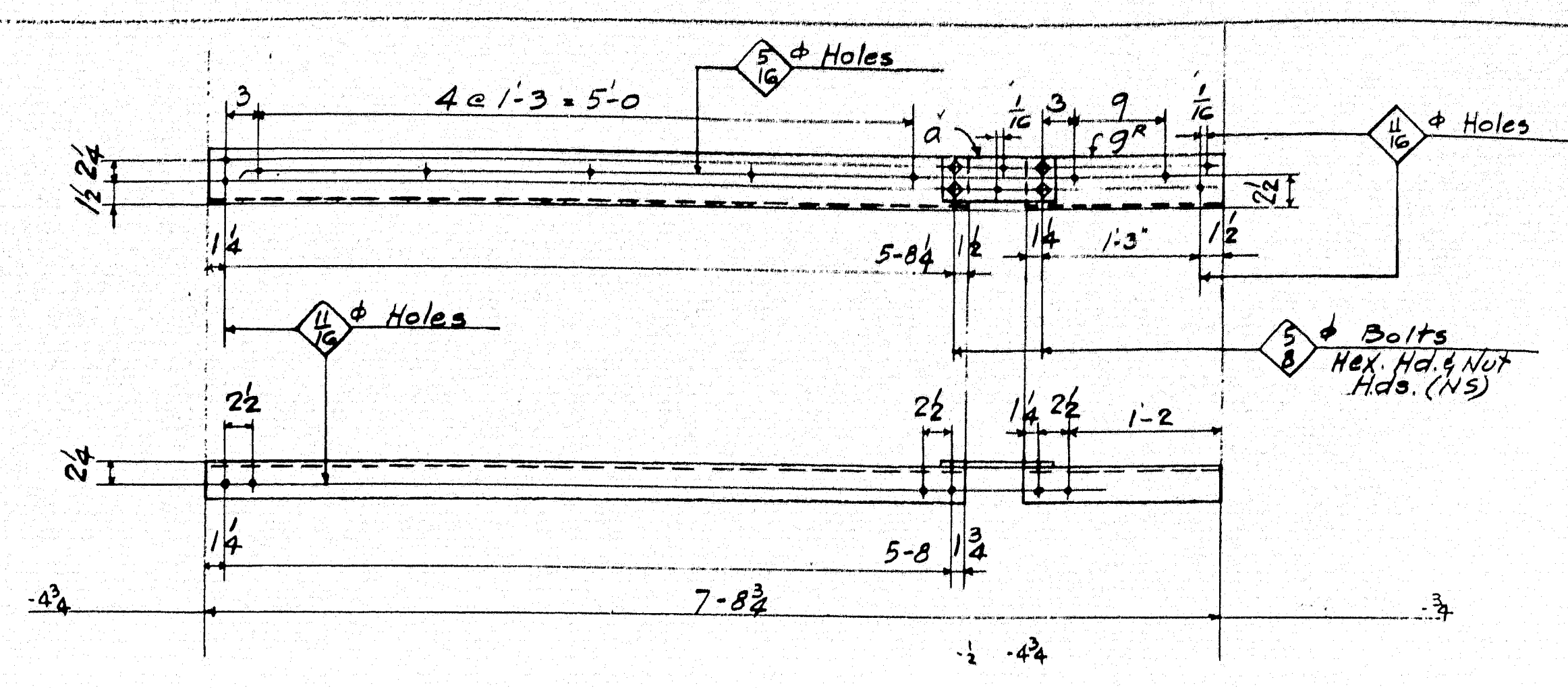
MAKE ONE RAIL - MARK R448 - AS SHOWN } ALIKE
 " ONE " " R548 - AS SHOWN }
 " ONE " " R449 - OPP. HAND } ALIKE
 " ONE " " R549 - OPP. HAND }



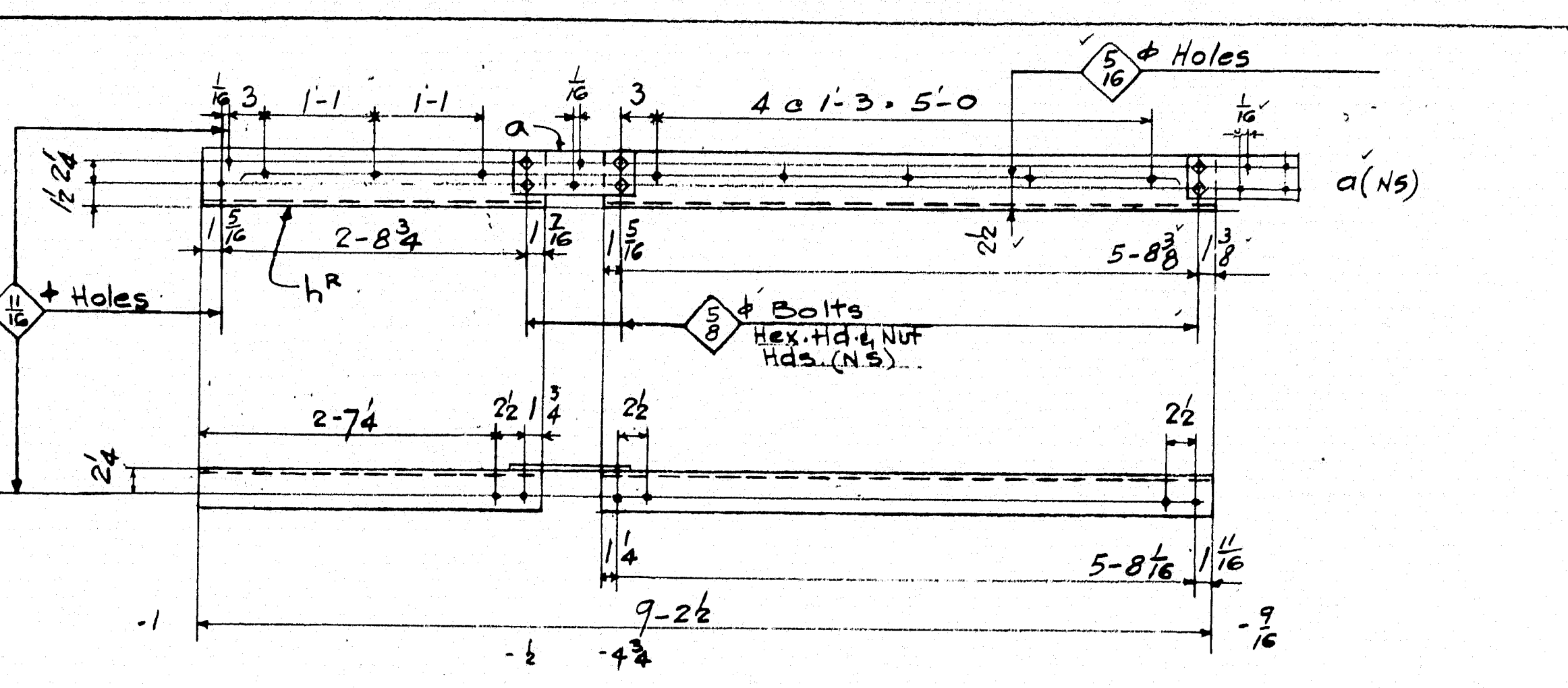
MAKE ONE RAIL - MARK R442 - AS SHOWN } ALIKE
 " ONE " " R542 - AS SHOWN }
 " ONE " " R443 - OPP. HAND } ALIKE
 " ONE " " R543 - OPP. HAND }



MAKE ONE RAIL - MARK R474 - AS SHOWN } ALIKE
 " ONE " " R574 - AS SHOWN }
 " ONE " " R475 - OPP. HAND } ALIKE
 " ONE " " R575 - OPP. HAND }



MAKE ONE RAIL - MARK R460 - AS SHOWN } ALIKE
 " ONE " " R560 - AS SHOWN }
 " ONE " " R461 - OPP. HAND } ALIKE
 " ONE " " R561 - OPP. HAND }



MAKE ONE RAIL - MARK R438 - AS SHOWN } ALIKE
 " ONE " " R538 - AS SHOWN }
 " ONE " " R439 - OPP. HAND } ALIKE
 " ONE " " R539 - OPP. HAND }

REQ'D.		MADE UP OF							Wt
NO.	MARK	NO.	MARK	SIZE	LGTH.	REMARKS	ORD.	WEIGHT	
AS SHOWN	1 R448	1		2-5 3/8 x 3/8	12-0 3/4		9-418-87	125.	
AS SHOWN	1 R548	1						125.	
OPP. HAND	1 R449	1						125.	
OPP. HAND	1 R549	1		2-5 3/8 x 3/8	12-0 3/4			125.	
		4 a		1/2 x 3/8	10 1/2		9-419-43	17.	
		8 Bolt		5/8 x 1 1/2		Hex. Hd. & Nut	32943	1.	
AS SHOWN	1 R442	1		2-5 3/8 x 3/8	5-9 3/4		9-418-87	60.	
AS SHOWN	1 R542	1						60.	
OPP. HAND	1 R443	1						60.	
OPP. HAND	1 R543	1		2-5 3/8 x 3/8	5-9 3/4			60.	
		4 a					9-419-43	17.	
		4 b		1/2 x 3/8	9 1/2			16.	
		4 c		1-5 3/8 x 1/2	9 1/2	(Bent)	119-12	27.	
		16 Bolt		5/8 x 1 1/2		Hex. Hd. & Nut	32943	3.	
		4 Bolt		5/8 x 1 1/2		D.		1.	
AS SHOWN	1 R474	1		2-5 3/8 x 3/8	12-0 3/4		9-418-87	125.	
AS SHOWN	1 R574	1						125.	
OPP. HAND	1 R475	1						125.	
OPP. HAND	1 R575	1		2-5 3/8 x 3/8	12-0 3/4			125.	
		4 a					9-419-43	17.	
		4 d		1/2 x 3/8	9 1/2			27.	
		4 f		1-5 3/8 x 1/2	8 1/2	(Bent)	119-12	24.	
		24 Bolt		5/8 x 1 1/2		Hex. Hd. & Nut	32943	4.	
AS SHOWN	1 R460	1		2-5 3/8 x 3/8	5-9 3/4		9-418-87	60.	
AS SHOWN	1 R560	1						60.	
OPP. HAND	1 R461	1						60.	
OPP. HAND	1 R561	1		2-5 3/8 x 3/8	5-9 3/4			60.	
		4 a		1/2 x 3/8	1-5 3/8		9-419-43	17.	
		16 Bolt		5/8 x 1 1/2		Hex. Hd. & Nut	32943	3.	
AS SHOWN	1 R438	1		2-5 3/8 x 3/8	5-9 3/4		9-418-87	60.	
AS SHOWN	1 R538	1						60.	
OPP. HAND	1 R439	1						60.	
OPP. HAND	1 R539	1		2-5 3/8 x 3/8	5-9 3/4			60.	
		4 h		1/2 x 3/8	2-11 1/2			123.	
		8 a					9-419-43	34.	
		24 Bolt		5/8 x 1 1/2		Hex. Hd. & Nut	32943	4.	
Gross Wt								2117.	
Wt. Ded.								10.	
Net Wt.								2107.	
Paint.								9.	
Tot. Wt.								2116.	

ARROWSIC BRIDGE OVER SASANOA RIVER
 ARROWSIC - WOOLWICH
 FED. AID PROJ. No. S-154 (2)
 CONTRACT No. 2

RAILINGS - SPANS 3, 4 & 5

FOR NOTES ON SPECIFICATIONS, MATERIAL,
 PAINTING, PUNCHING, DRILLING, REAMING, ETC.
 SEE SHEET X50

5/8" DIAM. OPEN HOLES, 1/2" DIAM.
 BOLTS UNLESS OTHERWISE NOTED

HARRIS STRUCTURAL STEEL CO.
 419 FOURTH AVE., N. Y.

REVISIONS	

DRAWN BY LK DATE 1-31-50
 CHECKED BY THJ DATE 2-11-50
 CONTRACT No. C378 SHEET No. 183

HARRIS STRUCTURAL STEEL COMPANY, INC., 419 FOURTH AVE., NEW YORK 16, N. Y.
 STRUCTURE ARROWSIC BRIDGE OVER SASANOA RIVER, ARROWSIC-WOOLWICH, MAINE

REQD	MARK	NO.	SIZE	LENGTH	REMARKS	ORD.	WEIGHT
<u>7ϕ FIELD RIVETS</u>							
GRIP		198	7/8 ϕ Riv.	24			
3/4		634	Do	23			300
7/8		232					
<u>7ϕ FIELD BOLTS - (2-HEX. NUTS)</u>							
GRIP		32	3/8 ϕ Bolt	3 1/2	Hex. Hd.		8
1/2		64	Hex. Nuts	for 3/8 ϕ Bolts			12
<u>3ϕ FIELD BOLTS</u>							
GRIP		67	3/4 ϕ Bolt	2	Hex. Hd.	123-8	10
1/2		97	Do	2 1/2	Do	32943	15
1 1/2		67	Do	3	Do	123-10	10
2 1/2		231	Hex. Nuts	for 3/4 ϕ Bolts		32943	28
<u>5ϕ FIELD BOLTS</u>							
GRIP		295	5/8 ϕ Bolt	1 1/2	Hex. Hd.	32943	27
1/2		67	Do	2 1/2	Do		6
1 1/2		362	Hex. Nuts	for 5/8 ϕ Bolts			33

SOUTH APPROACH
SHIPMENT #3

NAME	DATE
LK	

RIVETS DIAM. OPEN HOLES DIAM.
 UNLESS OTHERWISE NOTED

REVISED

CONTRACT NO.
 C 378

SHEET NO.
 187
 48-198

HARRIS STRUCTURAL STEEL COMPANY, INC., 419 FOURTH AVE., NEW YORK 16, N. Y.
 STRUCTURE ARROWSIC BRIDGE OVER SASANOA RIVER, ARROWSIC-WOOLWICH, MAINE

REQD	MARK	NO.	SIZE	LENGTH	REMARKS	ORD.	WEIGHT
<u>7ϕ FIELD RIVETS</u>							
GRIP		277	7/8 ϕ Riv.	24			
3/4		792	Do	23			385
7/8		113					
<u>7ϕ FIELD BOLTS (2-HEX. NUTS)</u>							
GRIP		32	3/8 ϕ Bolt	3 1/2	Hex. Hd.		8
1/2		64	Hex. Nuts	for 3/8 ϕ Bolts			12
<u>3ϕ FIELD BOLTS</u>							
GRIP		77	3/4 ϕ Bolt	2	Hex. Hd.	123-8	12
1/2		110	Do	2 1/2	Do	32943	17
1 1/2		77	Do	3	Do	123-10	12
2 1/2		264	Hex. Nuts	for 3/4 ϕ Bolts		32943	32
<u>5ϕ FIELD BOLTS</u>							
GRIP		374	5/8 ϕ Bolt	1 1/2	Hex. Hd.	32943	34
1/2		67	Do	2 1/2	Do		6
1 1/2		441	Hex. Nuts	for 5/8 ϕ Bolts			40

NORTH APPROACH
SHIPMENT #2

NAME	DATE
LK	

RIVETS DIAM. OPEN HOLES DIAM.
 UNLESS OTHERWISE NOTED

REVISED

CONTRACT NO.
 C 378

SHEET NO.
 186
 48-197

0 1 2 3 4 5 INCHES

SM 10-48 D22 DV

HARRIS STRUCTURAL STEEL COMPANY, INC., 419 FOURTH AVE., NEW YORK 16, N. Y.
STRUCTURE ARROWSIC BRIDGE OVER SASANOA RIVER, ARROWSIC-WOOLWICH, MAINE

7 ϕ FIELD RIVETS

REQD	MARK	NO.	SIZE	LENGTH	REMARKS	ORD.	WEIGHT
GRIP							
		45	7 ϕ RIVS	2 1/2			
		1120		2 1/2			
		915		2 1/2			
		1480		2 1/2			
		925		2 1/2			
		480		2 1/2			
		545		2 1/2			
		795		3 1/2			
		595		3 1/2			
		130		3 1/2			
		195		3 1/2			
		210		3 1/2			
		35		3 1/2			
		15		4			
		70		4 1/2			
		30		4 1/2			
		35		4 1/2			
		5		4 1/2			
		25		4 1/2			
		40		5 1/2			
		25		5 1/2			
		20	8 ϕ RIVS	7 1/2			
		mas					2788

8 ϕ FIELD BOLTS (2-HEX. NUTS)

REQD	MARK	NO.	SIZE	LENGTH	REMARKS	ORD.	WEIGHT
GRIP							
		15	8 ϕ BOLTS	3 1/2	HEX. HD		4
		15	Do	3 1/2	Do		4
		60	HEX. NUTS - 7/8 TAP				11

3 ϕ FIELD BOLTS

REQD	MARK	NO.	SIZE	LENGTH	REMARKS	ORD.	WEIGHT
GRIP							
		230	3 ϕ BOLTS	2 1/2	HEX. HD 32943		35
		155	Do	3	Do 123-10		23
		385	HEX. NUTS - 3/4 TAP		32943		46

5 ϕ FIELD BOLTS

REQD	MARK	NO.	SIZE	LENGTH	REMARKS	ORD.	WEIGHT
GRIP							
		885	5 ϕ BOLTS	1 1/2	HEX. HD 32943		80
		75	Do	2 1/2	Do		7
		960	HEX. NUTS - 5/8 TAP				86

SHIPMENT # 5

NAME	DATE
MLJ	2/7/50

RIVETS DIAM. OPEN HOLES DIAM.
UNLESS OTHERWISE NOTED

C 378

189

48-200

0 1 2 3 4 5 INCHES

SM 10-48 D22 DV

HARRIS STRUCTURAL STEEL COMPANY, INC., 419 FOURTH AVE., NEW YORK 16, N. Y.
STRUCTURE ARROWSIC BRIDGE OVER SASANOA RIVER, ARROWSIC-WOOLWICH, MAINE

8 ϕ FIELD RIVETS

REQD	MARK	NO.	SIZE	LENGTH	REMARKS	ORD.	WEIGHT
GRIP							
		45	8 ϕ RIVS	2 1/2			
		1070		2 1/2			
		915		2 1/2			
		1480		2 1/2			
		960		2 1/2			
		425		2 1/2			
		545		2 1/2			
		785		3 1/2			
		610		3 1/2			
		130		3 1/2			
		195		3 1/2			
		210		3 1/2			
		25		3 1/2			
		25		3 1/2			
		70		4 1/2			
		30		4 1/2			
		35		4 1/2			
		5		4 1/2			
		25		4 1/2			
		40		5 1/2			
		25		5 1/2			
		20	8 ϕ RIVS	7 1/2			
		mas					2761

8 ϕ FIELD BOLTS (2-HEX. NUTS)

REQD	MARK	NO.	SIZE	LENGTH	REMARKS	ORD.	WEIGHT
GRIP							
		15	8 ϕ BOLTS	3 1/2	HEX. HD		4
		15	Do	4 1/2			4
		15	Do	5 1/2			4
		90	HEX. NUTS - 7/8 TAP				16

3 ϕ FIELD BOLTS

REQD	MARK	NO.	SIZE	LENGTH	REMARKS	ORD.	WEIGHT
GRIP							
		230	3 ϕ BOLTS	2 1/2	HEX. HD 32943		35
		155	Do	3	Do 123-10		23
		385	HEX. NUTS - 3/4 TAP		32943		46

5 ϕ FIELD BOLTS

REQD	MARK	NO.	SIZE	LENGTH	REMARKS	ORD.	WEIGHT
GRIP							
		885	5 ϕ BOLTS	1 1/2	HEX. HD 32943		80
		75	Do	2 1/2	Do		7
		960	HEX. NUTS - 5/8 TAP				86

SHIPMENT # 4

NAME	DATE
MLJ	2/7/50

RIVETS DIAM. OPEN HOLES DIAM.
UNLESS OTHERWISE NOTED

REVISED

CONTRACT NO.

SHEET NO.

C 378

188

48-199

DM 10-49 D22 DV.

HARRIS STRUCTURAL STEEL COMPANY, INC., 419 FOURTH AVE., NEW YORK 16, N. Y.
STRUCTURE ARROWSIC ROAD OVERPASS & ARROWSIC BRIDGE OVER SASANOA RIVER, WOOLWICH, MAINE

WIRE MESH & FITTINGS
FOR RAILINGS

ITEM #116 - WIRE MESH FENCE
TOTAL SQUARE FEET = 4704

REV'D	MARK	NO.	SIZE	LENGTH	REMARKS	ORD.	WEIGHT
			30" PAGE				
			HI-WAY GUARD				
			DR. APPROVED 1950-0-91-50% RALLS				
			EQUAL				
			2" MESH -				
			1/2" GAUGE				
			GALV. WIRE				3340.3
			1" 12 GALV. 3200-0				
			WIRE				
			50 STD. GALV. STRETCHER				
			BAR FOR 20" MESH				

NAME	DATE
WLV	3/10/50

RIVETS DIAM. OPEN HOLES DIAM.
UNLESS OTHERWISE NOTED

REVISED

CONTRACT NO.

SHEET NO.

C 378

191

48-202

DM 10-49 D22 DV.

HARRIS STRUCTURAL STEEL COMPANY, INC., 419 FOURTH AVE., NEW YORK 16, N. Y.
STRUCTURE ARROWSIC BRIDGE OVER SASANOA RIVER, ARROWSIC - WOOLWICH, MAINE

3/8" FIELD RIVETS

REV'D	MARK	NO.	SIZE	LENGTH	R/MARKS	ORD.	WEIGHT
			GRIP				
			65 3/8" RIVS	26			
			1245	24			
			375	23			
			1045	26			
			175	28			
			530	24			
			490	24			
			580	38			
			570	34			
			505	32			
			120	32			
			105	32			
			80	4			
			80	4 1/2			
			115	5 1/2			
			80 3/8" RIVS	64			
			640				2218

3/4" FIELD BOLTS

REV'D	MARK	NO.	SIZE	LENGTH	R/MARKS	ORD.	WEIGHT
			GRIP				
			185 3/4" BOLTS	24	HEX. HD 32943		28
			125 Do	3	Do 123-10		19
			310 HEX. NUTS - 3/4" TAP				37

5/8" FIELD BOLTS

REV'D	MARK	NO.	SIZE	LENGTH	R/MARKS	ORD.	WEIGHT
			GRIP				
			810 5/8" BOLTS	12	HEX. HD 32943		73
			110 Do	24	Do		10
			920 HEX. NUTS - 5/8" TAP				83

SHIPMENT #6

NAME	DATE
WLV	2/17/50

RIVETS DIAM. OPEN HOLES DIAM.
UNLESS OTHERWISE NOTED

REVISED
RI-As NOTED 3/15/50

CONTRACT NO.

SHEET NO.

C 378

190

48-201

0 1 2 3 4 5 INCHES