

AD-A074 618

AMMANN AND WHITNEY NEW YORK
SCIENTIFIC DIRECTOR'S REPORT OF ATOMIC WEAPON TESTS AT ENIWETOK--ETC(U)
NOV 51

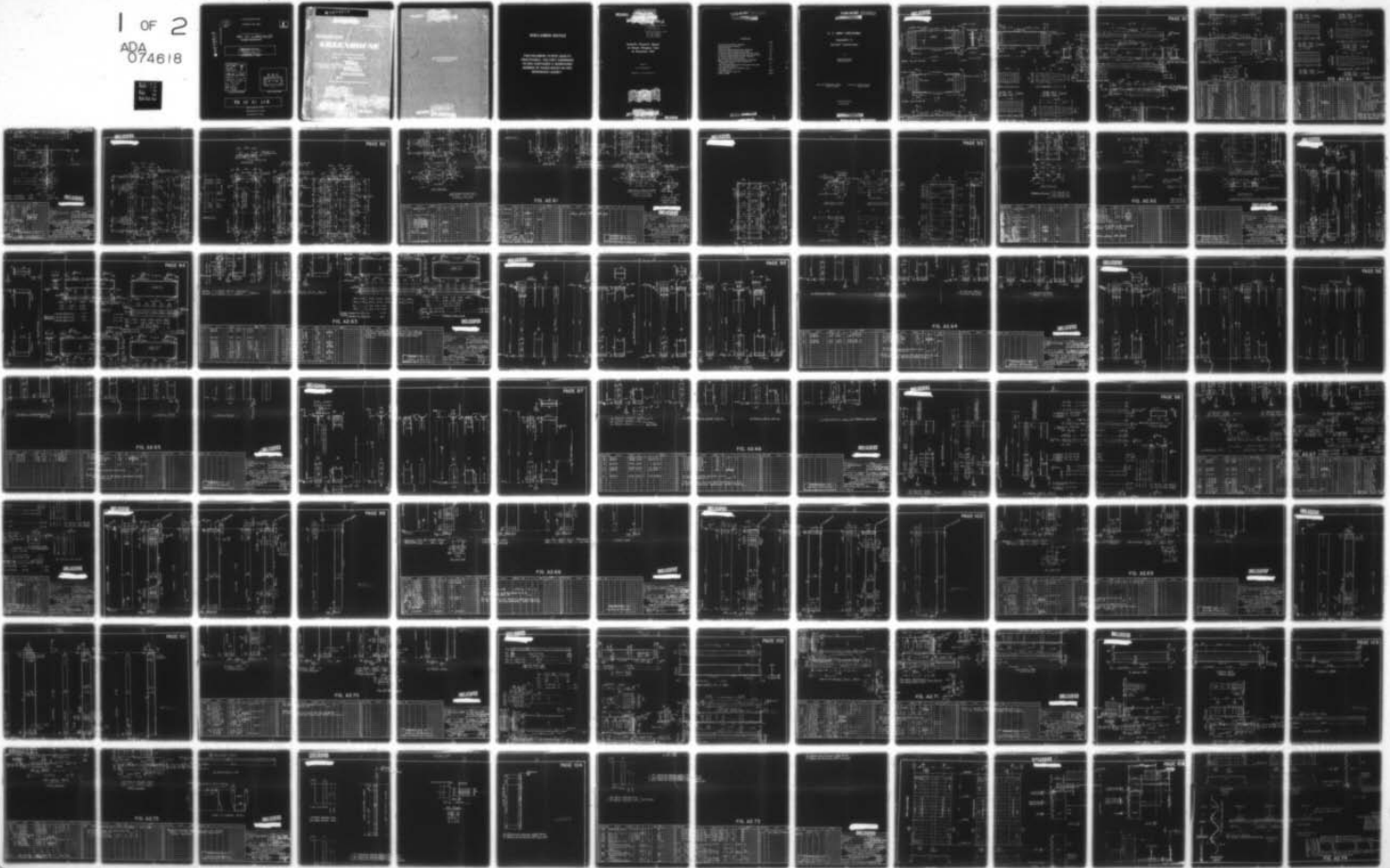
F/6 18/3

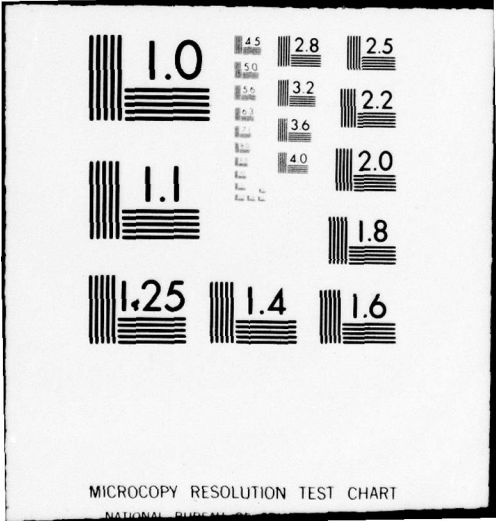
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AEC-WT-60(REF)-PT-3

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1 OF 2
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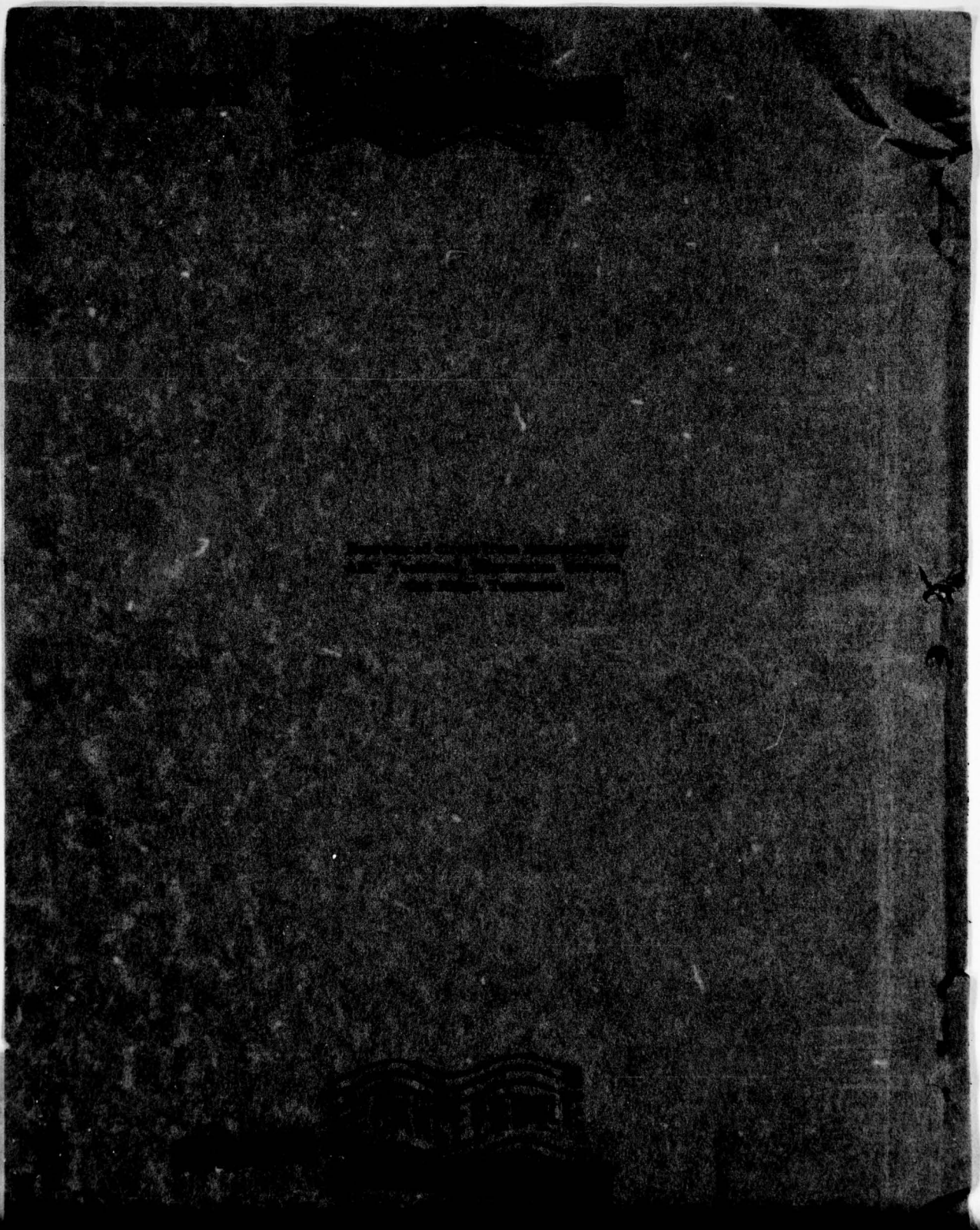
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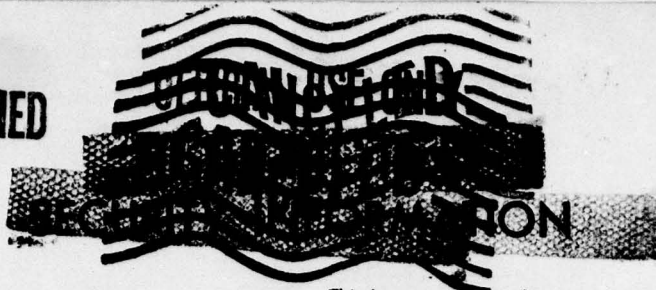


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WT-60(REF.) is divided into four parts as follows:

- Part I - Pages 1 through 75
- Part II - Pages 76 through 90
- Part III - Pages 91 through 110
- Part IV - Pages 111 through 130

Scientific Director's Report of Atomic Weapon Tests at Eniwetok, 1951

Annex 3.1

U. S. Army Structures

Appendix 2 As-built Construction



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U. S. ARMY STRUCTURES

Appendix 2

As-built Construction

by

AMMANN & WHITNEY
Consulting Engineers

Approved by: **SHERWOOD B. SMITH**
Director, Program 3

Approved by: **ALVIN C. GRAVES**
Scientific Director

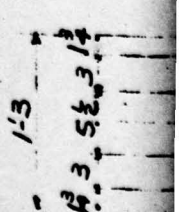
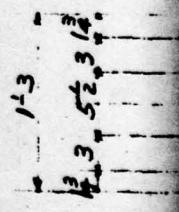
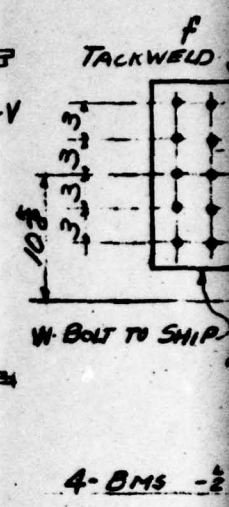
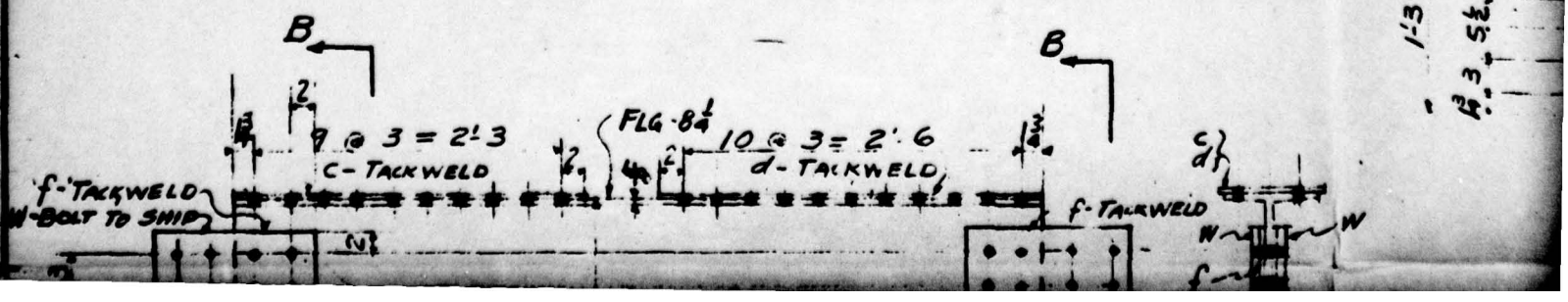
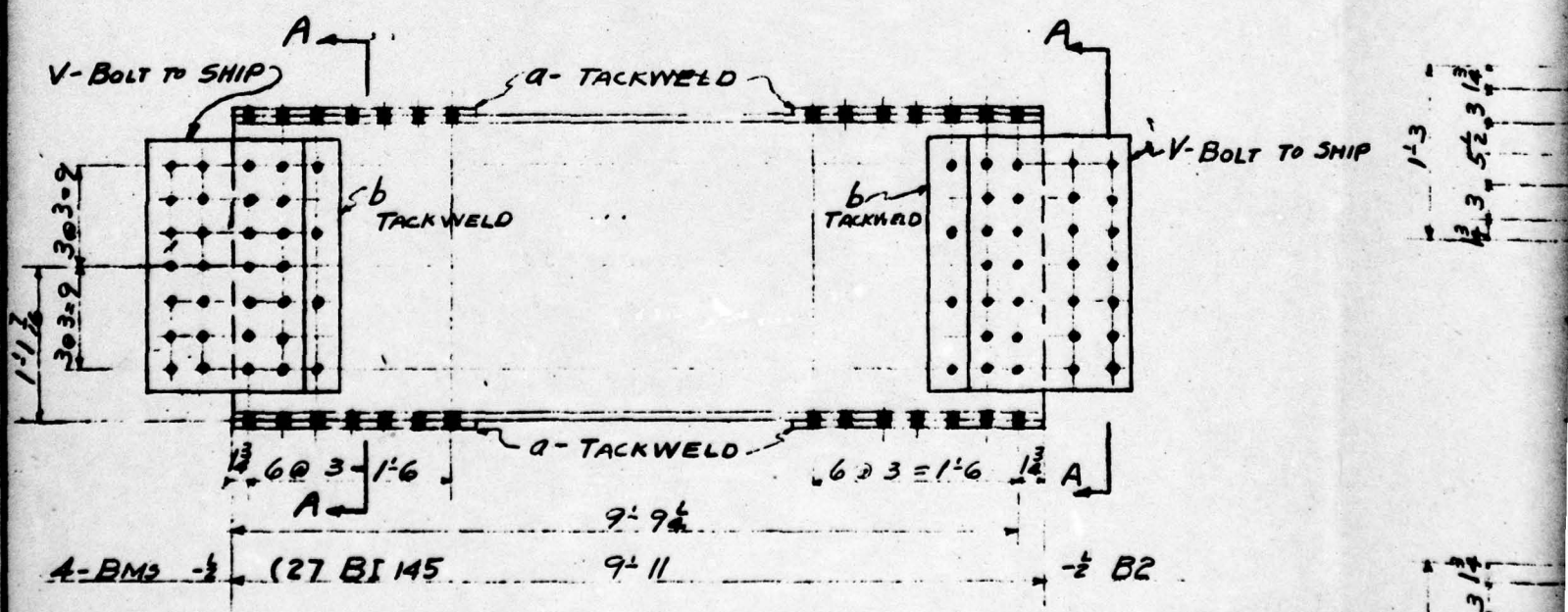
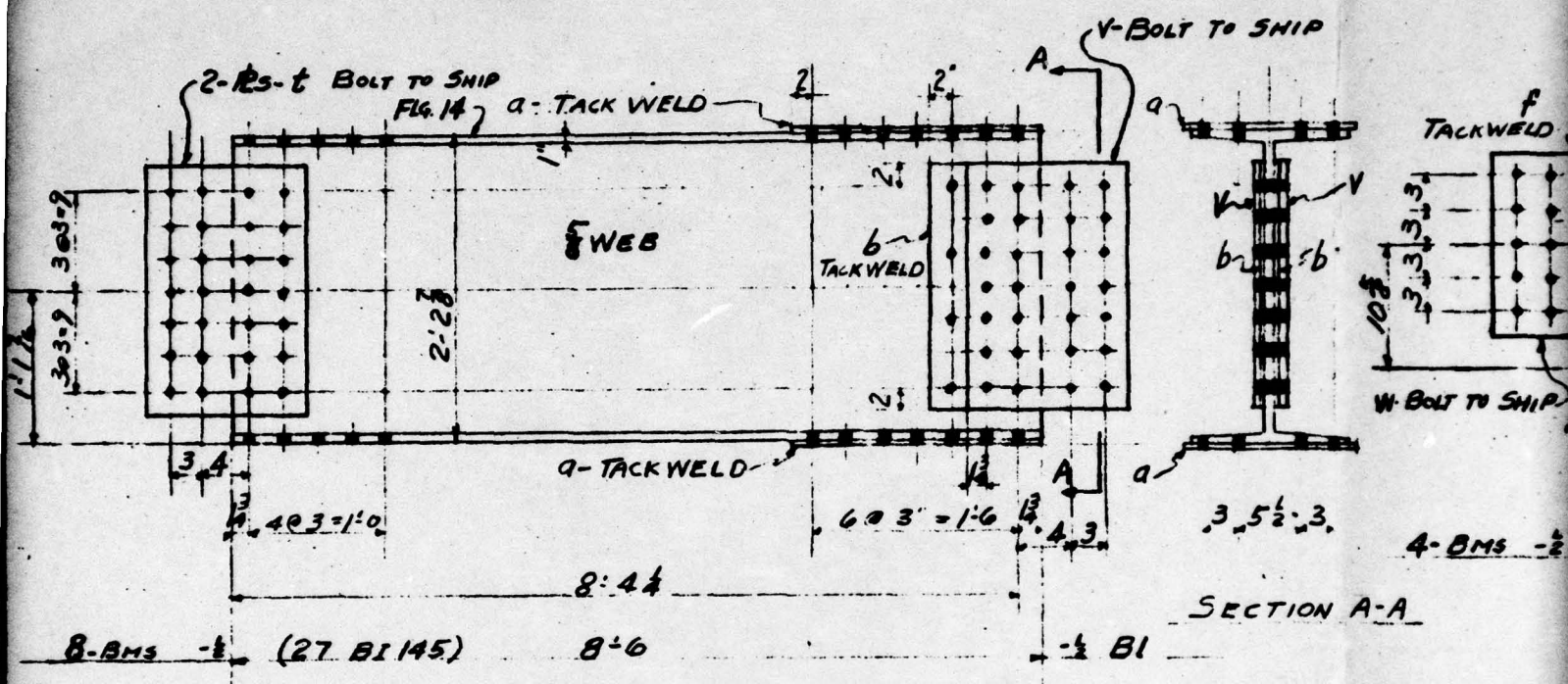
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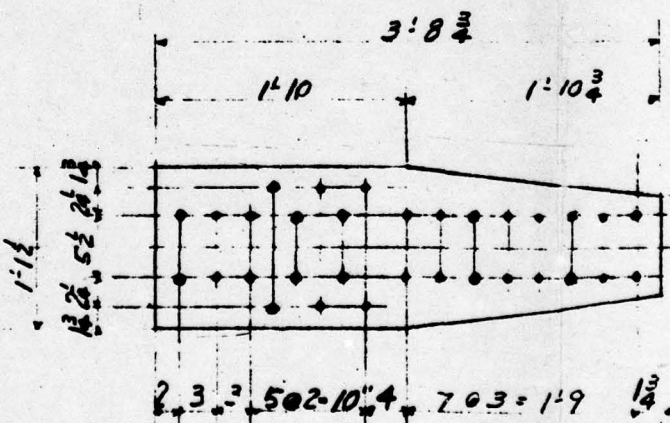
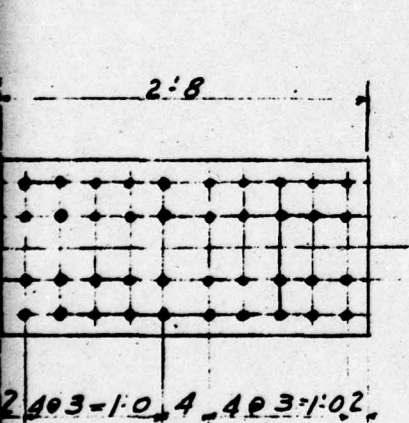
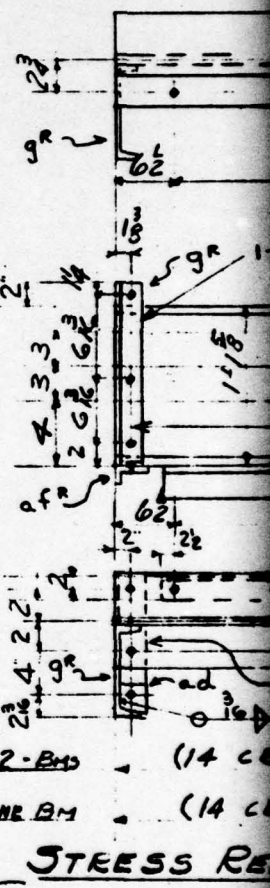
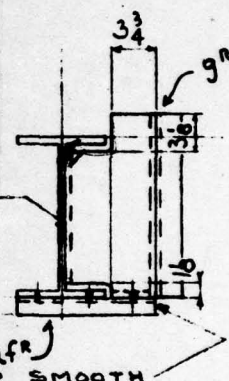
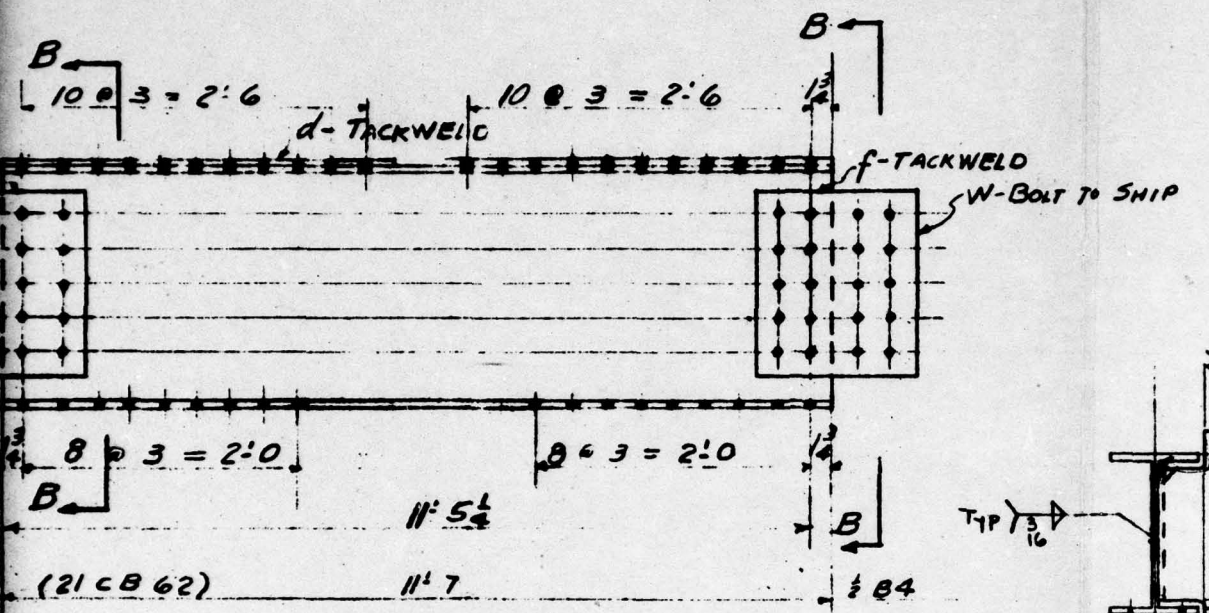
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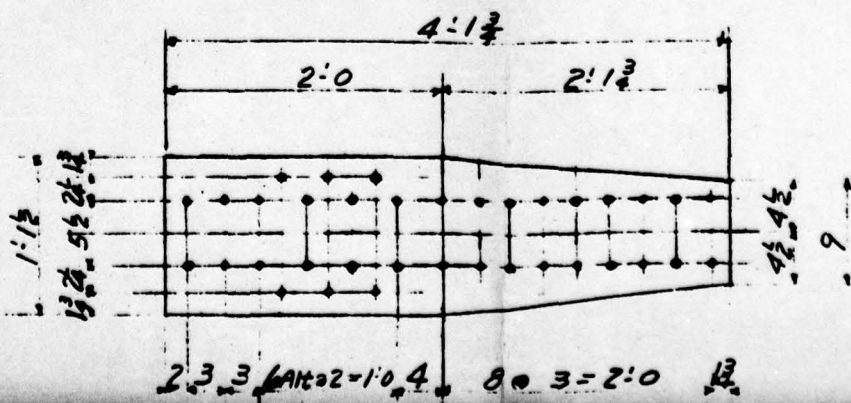
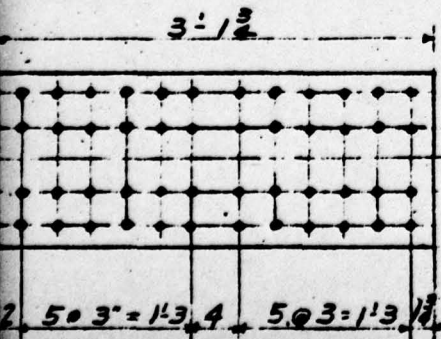
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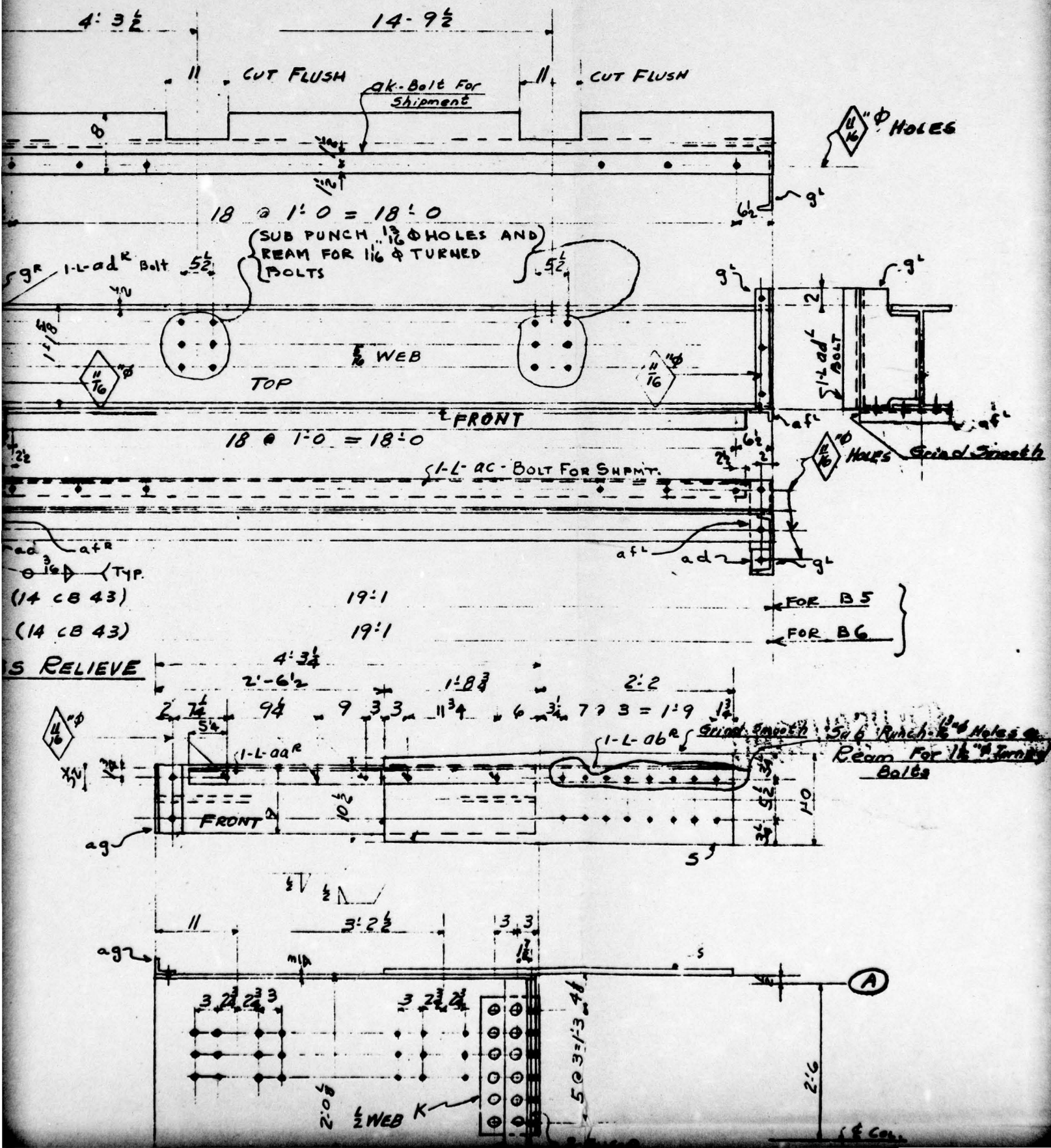


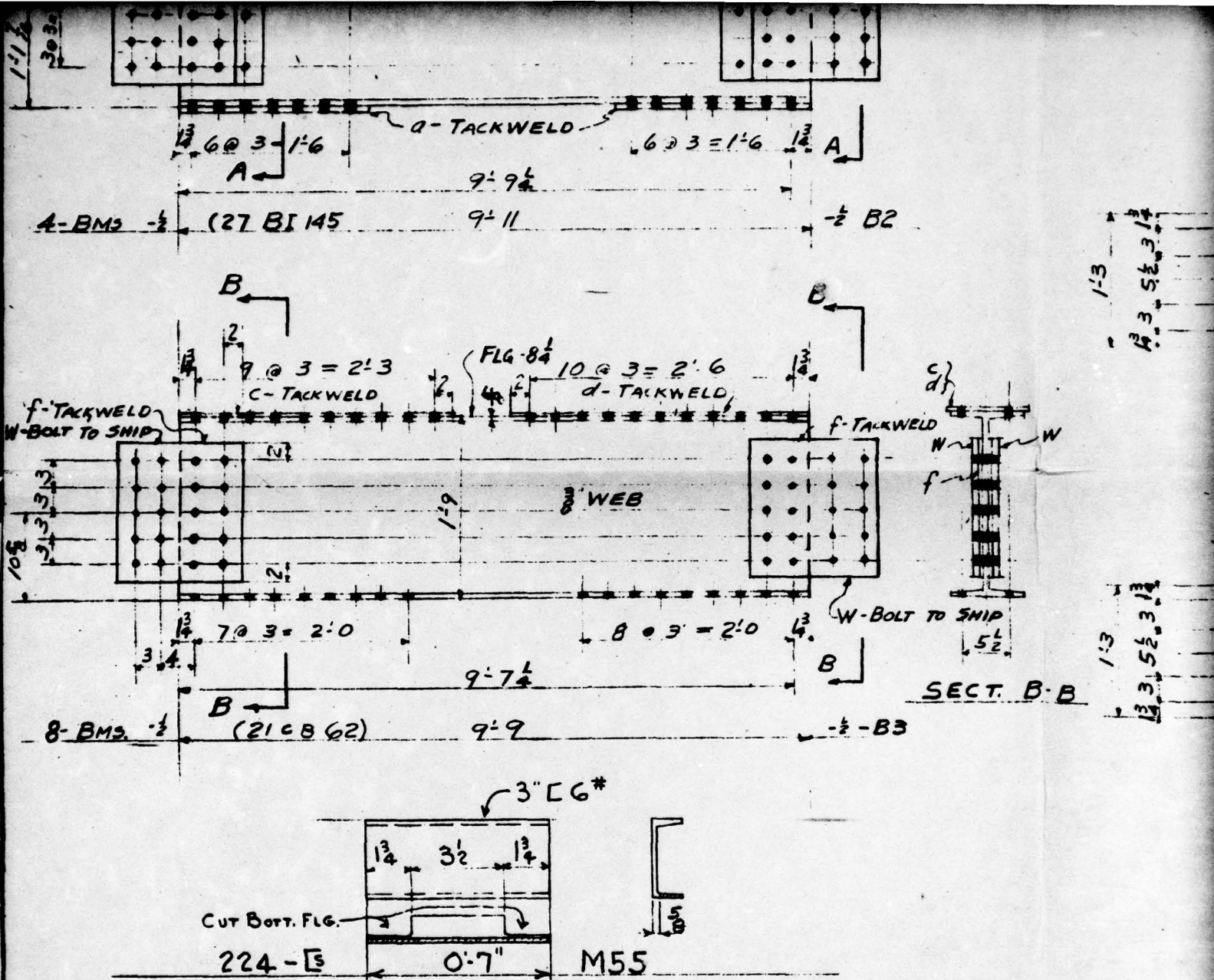


8-RES M1 } ALIKE
 8-RES M2 }

8-RES M7 } ALIKE
 8-RES M8 }



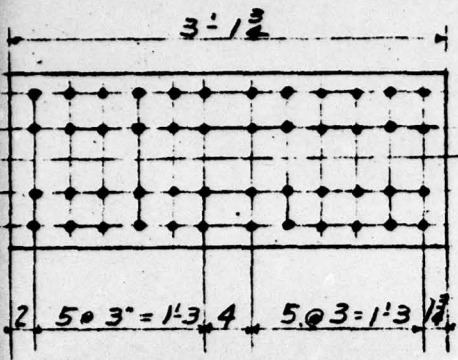




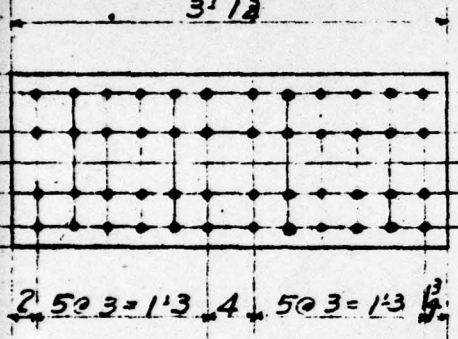
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								1	2				
1	8		27 BI 145	8'-6"	B1	A7	S	ML 3/4	4 4	18		32	FILLS
2	4		27 BI 145	9'-11"	B2			ML 3/5	2 2	19		32	FILLS
3	8		21 CB 62	9'-9"	B3			ML 3/16	4 4	20		8	FILLS
4	4		21 CB 62	11'-7"	B4			ML 3/17	2 2	21		16	FILLS
5	8		15 x 1	2'-8"	M1			ML 9/11	4 4	22		48	FILLS
6	8		15 x 1	2'-8"	M2			ML 6/11	4 4	23		6	B
7	8		15 x 1 1/2	3'-1 1/4"	M3			ML 6/9	4 4	24		4	L 8 x
8	8		15 x 1 1/2	3'-1 3/4"	M4			ML 6/9	4 4	25		4	L 4 x
9	8		15 x 1 1/2	3'-1 1/2"	M5			ML 6/9	4 4	26		4	FILLS
10	8		15 x 1 1/2	3'-1 1/2"	M6			ML 6/9	4 4	27		2	R. 20
11	8		13 1/2 x 1/2	3'-8 3/4"	M7				4 4	28		2	R. 12
12	8		13 1/2 x 1/2	3'-8 3/4"	M8				4 4	29		16	R. 14
13	8		13 1/2 x 1	4'-1 1/2"	M9			ML 6/11	4 4	30		32	R. 13
14	8		13 1/2 x 1	4'-1 1/2"	M10			ML 6/11	4 4	31		48	R. 14
15	8		13 1/2 x 1	4'-1 1/2"	M11			ML 6/11	4 4	32		2	L-3 1/2
16	8		13 1/2 x 1	4'-1 1/2"	M12			ML 6/11	4 4	33		2	L-3 1/2
17		6	6 BARS 2 1/2 x 1/4	0'-8 1/4"	ad	AT MESH MACHINE	S			34		3	L-3 1/2

403-10.4, 403-10.2.

8-Pcs M1 } ALIKE
8-Pcs M2 }

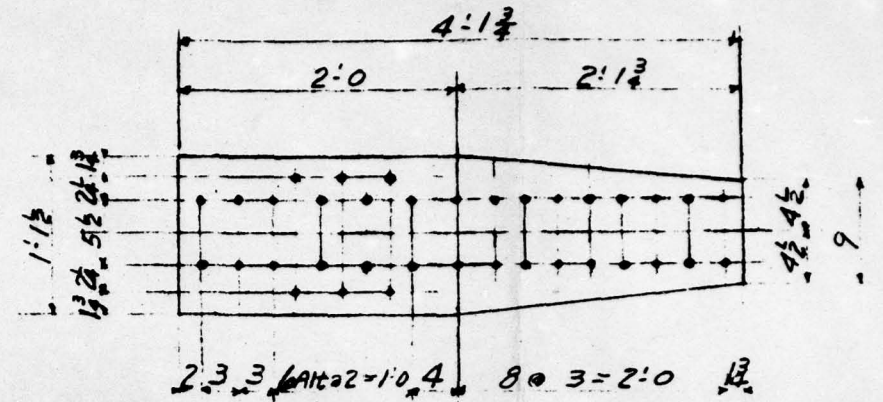


8-Pcs M3 } ALIKE
8-Pcs M4 }

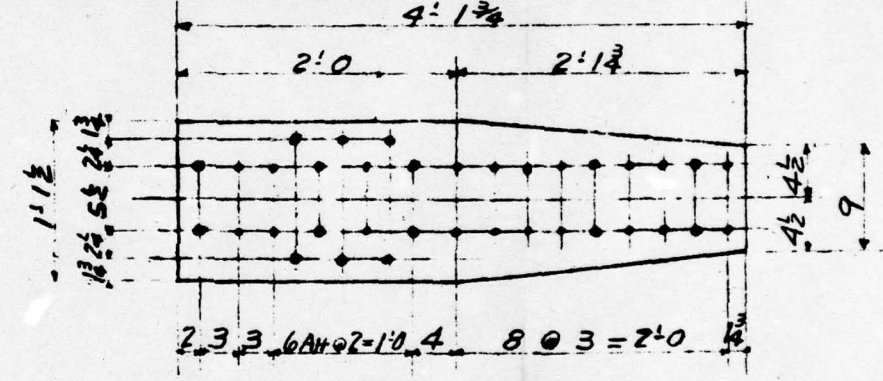


8-Pcs M5 } ALIKE
8-Pcs M6 }

8-Pcs M7 } ALIKE
8-Pcs M8 }



8-Pcs M9 } ALIKE
8-Pcs M10 }

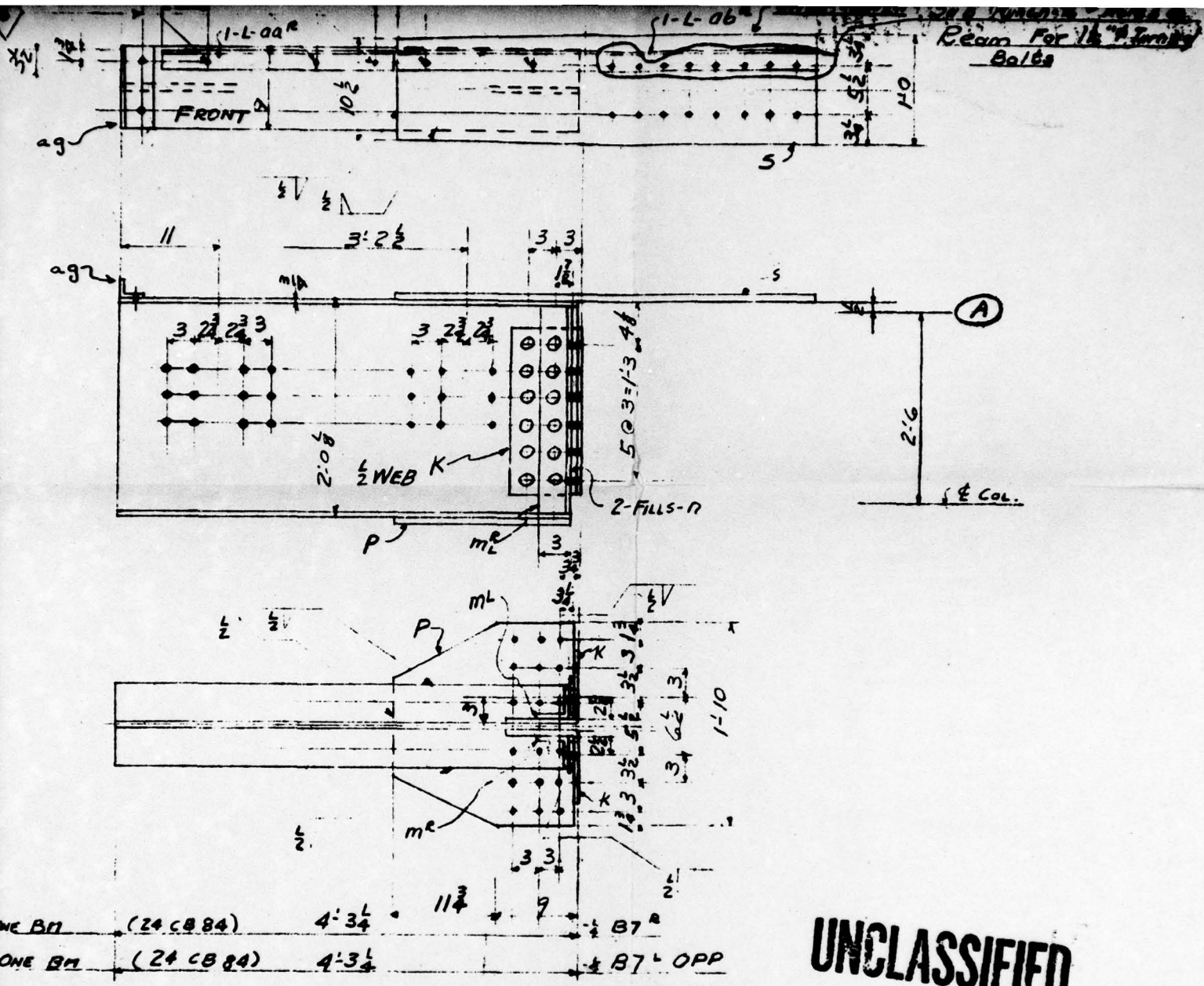


8-Pcs M11 } ALIKE
8-Pcs M12 }

STRESS RELIEVE →

FIG. A2.60

DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTS.	WEIGHT	LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LENGTH PATTERN
5 15 x 3/8	1'-9 3/4	a	A7	S		35	2	14 CB 43	19	
5 9 3/4 x 1/2	1'-10	b				36	1	14 CB 43	19	
5 8 1/2 x 1/2	2'-6 3/4	c				37	1	24 CB 84	4-	
5 8 1/2 x 1/2	2'-9 3/4	d				38	1	24 CB 84	4-	
5 6 3/4 x 1/2	1'-4	f				39	316	3 M 6" (NO DETAIL)		
5 I 11.5	1'-3 3/8	g				40	216	3 M 6" (NO DETAIL)		
5 8 x 1/2	1'-6 1/2	k				41	224	3 M 6"		
5 3 x 9/8	1'-10 3/4 F2E	m				42		6 L'-2 1/2 x 2 1/2 x 1/8	10-	
5 3' x 9/8	1'-6 1/2	n	A7 Mech Bar Analysis			43		7 LBS. SHOP WELD. WELDING ROD E		
5 20 3/4 x 5/8	1'-10	p	A7			44		24 SHOP RIVETS 1"		
5 2 x 1	3'-10 3/4	s				45		6 1 1/2 3 1/2 x 2 1/2 x 5/16	10-	
5 14 x 3/8	1'-10	t				46		2 1 1/2 3 1/2 x 2 1/2 x 5/16	0	
5 13 1/2 x 3/8	1'-4	v				47		3 Bars 3 x 2	19	
5 14 x 3/8	1'-4	w				48				
5 2'-2 1/2 x 9/8	2'-2	aa				49		Beams Marked B.5, B.6		
5 2'-2 1/2 x 9/8	3'-10 3/4	ab				50		B.7 To Be Stress Rel		

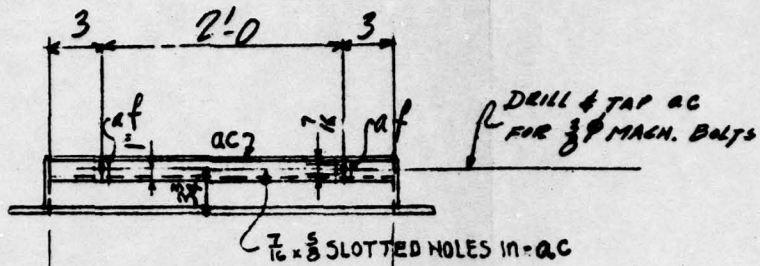


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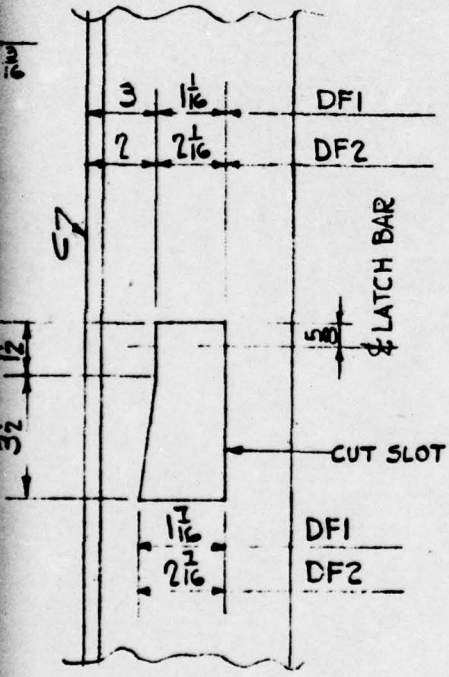
LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPT.	PILE	
				1	2
19-1	B5	A7	5BS	ML ¹ / ₁₉	2
19-1	B6		5BS	ML ¹ / ₁₉	1
4-2 3/4	B7 ^R		SBS		1
4-2 3/4	B7 ^L		SBS		1
10"	M13		S	ML ⁶ / ₁₇	153 153
7"	M14			ML ⁴ / ₁₇	108 108
7"	M55			ML ⁵ / ₁₇	112 112
7 3/8"	ad ^R	A7 Marsh Bar Quality			
E7010-11-20		A-141			
1'-0 1/4"	af ^R	A7	S		
0'-9"	ag	A7	S		
9'-1"	ak	A7 Marsh Bar Quality	S		
INSPECTION BY					
Holmes & Narver					

NO.	DATE	BY	REVISION
HOLES 1 1/8" UNLESS NOTED			PAINT 1-SHOP COAT
RIVETS 1" φ			TT-P-86. RED LEAD BASE
REP.			LINSEED OIL READY MIXED.
DATE	DRAWN BY	CHECKED BY	IN CHARGE OF
APR 26-50	Storjengen	GALLAGHER	HOLBROOK
CONSOLIDATED WESTERN STEEL CORPORATION			
LOS ANGELES, CALIFORNIA.			
SUBSIDIARY OF UNITED STATES STEEL CORPORATION			
HOLMES & NARVER BUILDINGS No. 6 & No. 2			ORDER NO. 48357
FLOOR BMS, ROOF BMS, SPLICE P.S.			DRAWING NO. 5

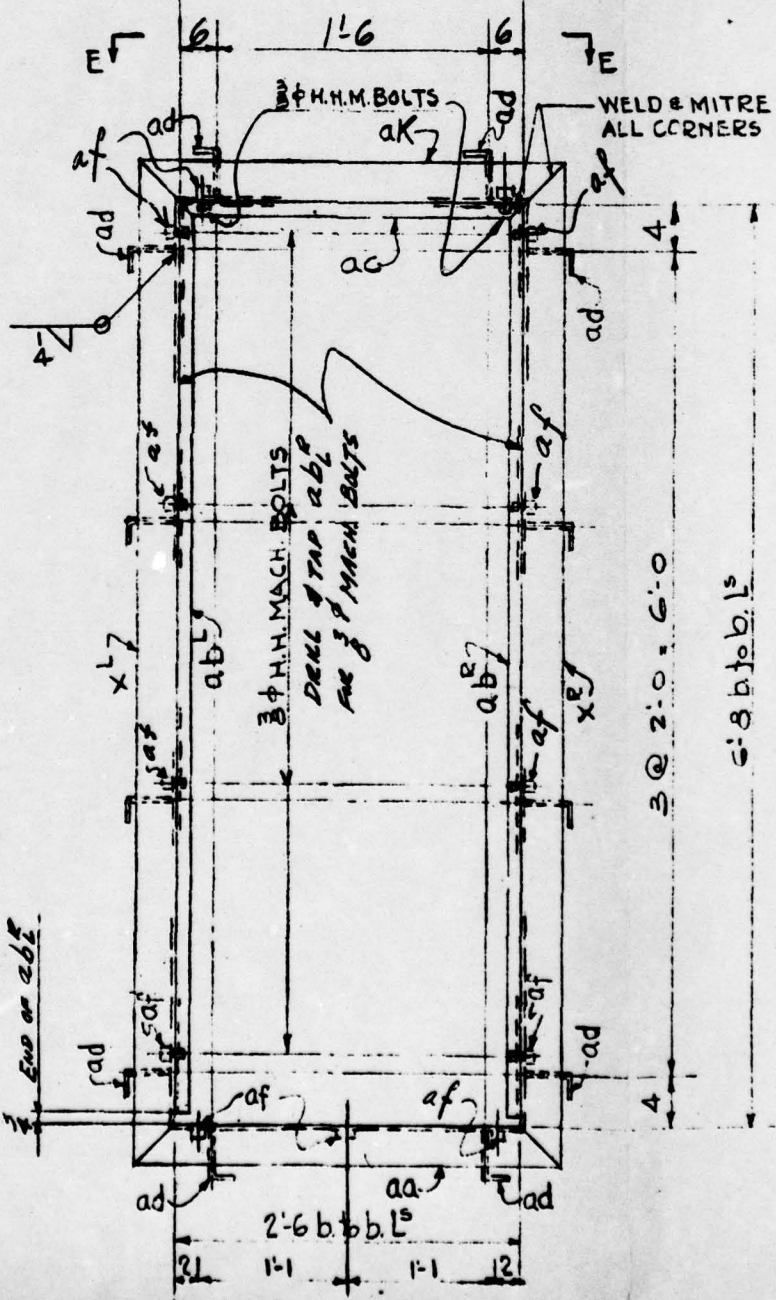


SECTION E-E

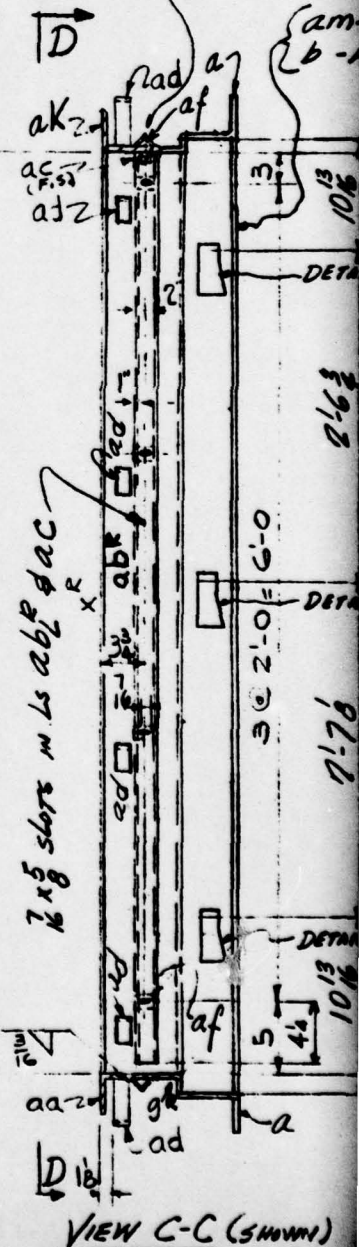
WELD ag TO OF af TH



DETAIL "C"



VIEW D-D

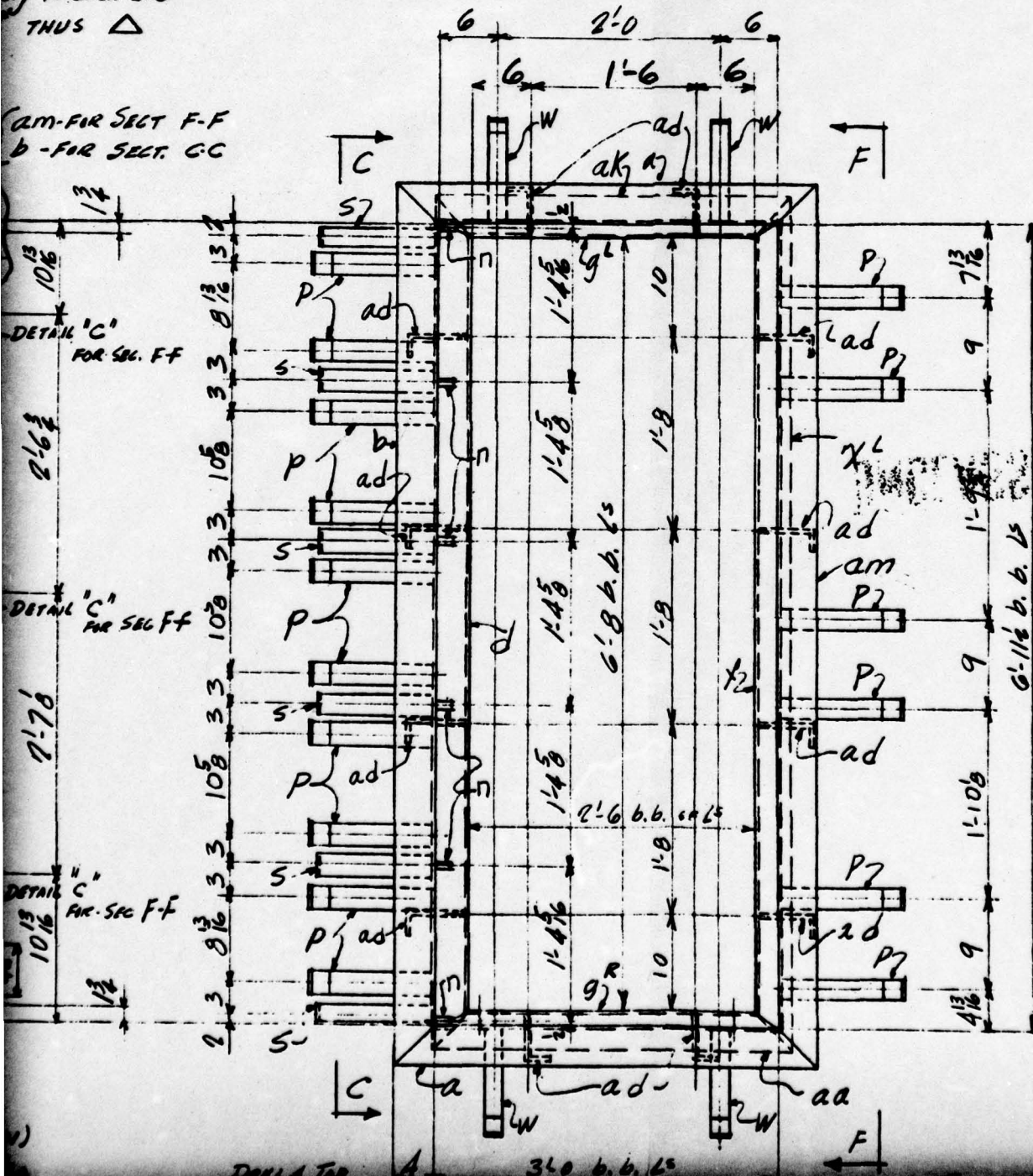


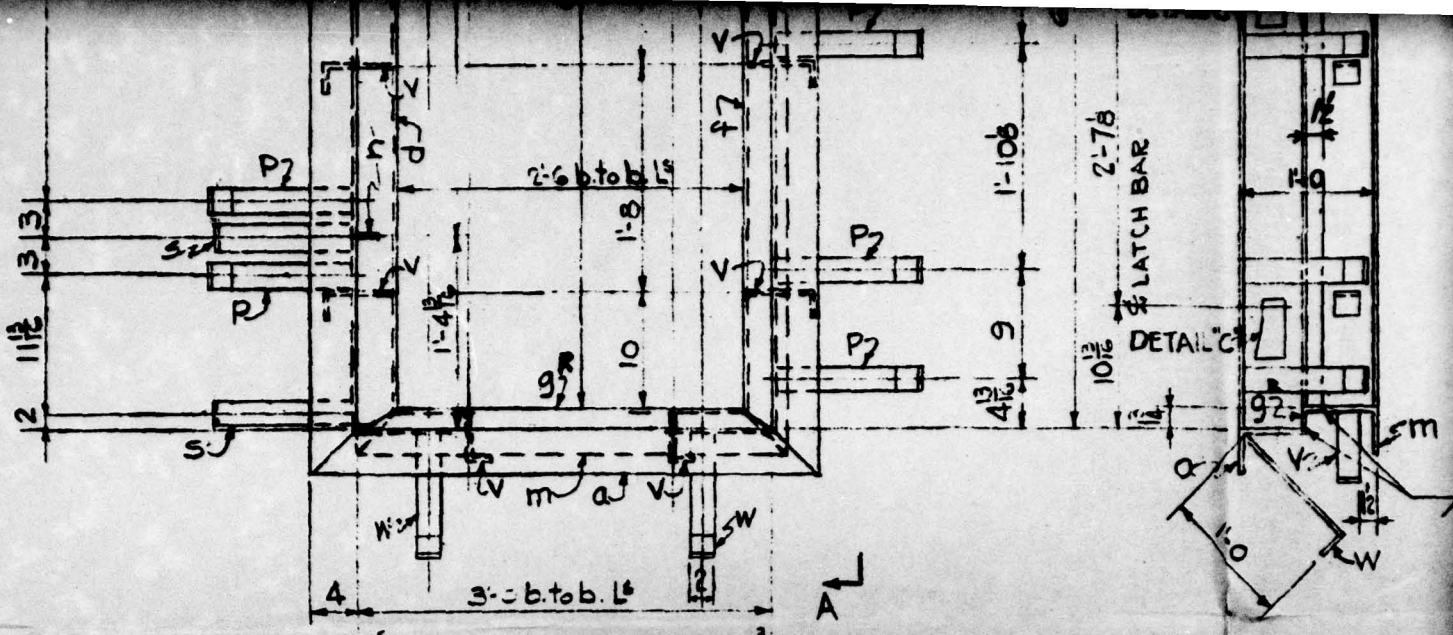
VIEW C-C (SHOWN)

VIEW F-F (OPP)

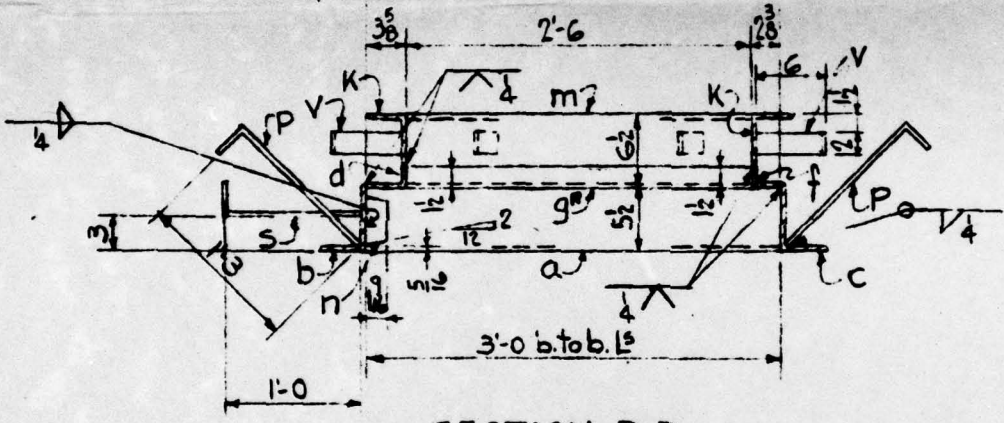
TO EACH END
THUS \triangle

CLM-FOR SECT F-F
b - FOR SECT. CC





ELEVATION A-A



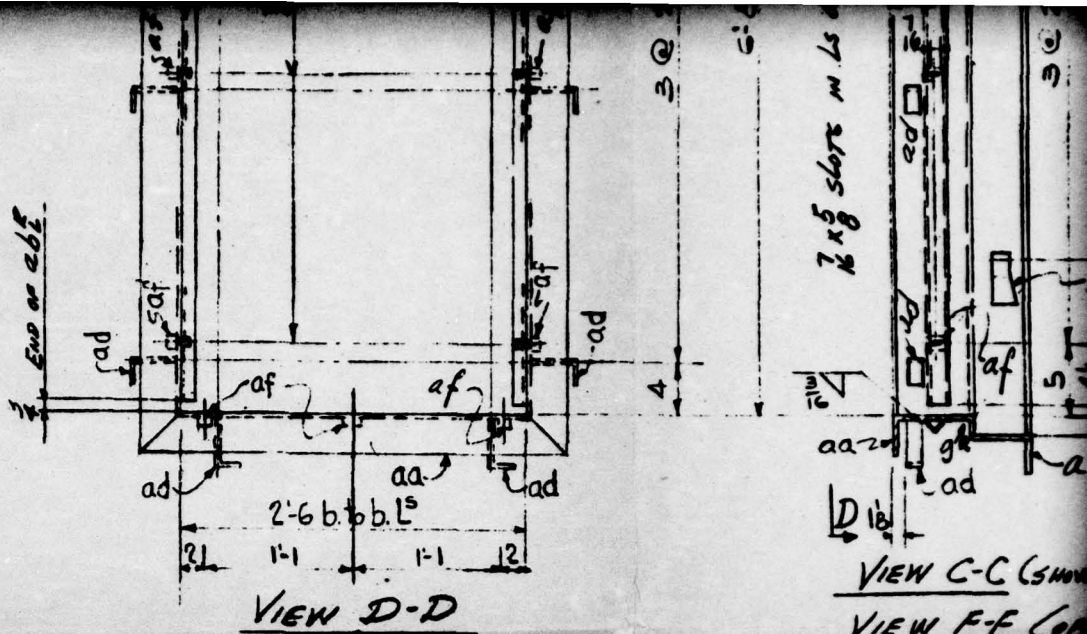
SECTION B-B

ONE DOOR FRAME DFI

STRESS RELIEVE

LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTG.	WEIGHT	PIC			LINE	SHIP. PCS.	DETAIL PCS.
1	1		DOOR FRAME		DF1	A7	LPL		1			18	1	L
2	1		↓		DF2	↓	↓		1			19	1	
3												20	1	L
4		4	LG x 4 x 3/8 (MITRE)	3'-8	a		L					21	1	
5		2	do	7'-7 1/2	b							22	1	
6		1	LG x 4 x 3/8 (MITRE)	7'-7 1/2	c			RL4				23	12	BAR
7		2	L 3 1/2 x 1 1/2 (CUT MITRE)	6'-11 1/2	d							24	13	L
8		2	L 2 1/2 x 1 1/2 (CUT MITRE)	6'-11 1/2	f	AT MESH BAR GAL						25	13	BAR
9		4	L 1 1/2 x 1 1/2 (CUT MITRE)	3'-0	g	do						26	10	L

DETAIL "C"

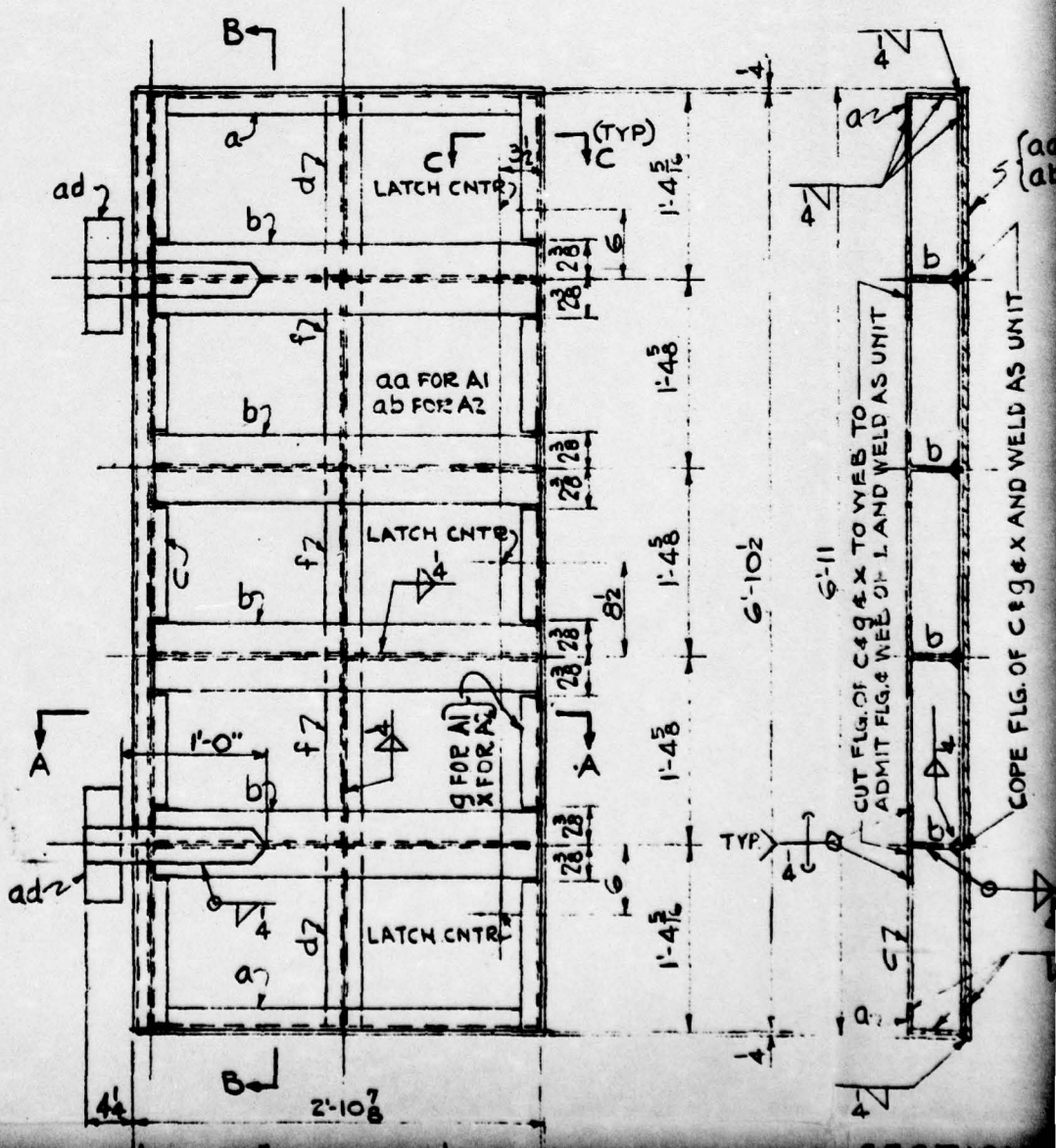


VIEW C-C (SHOW
VIEW F-F (CON
(BARS 5 & P NOT SH

FIG. A2.61

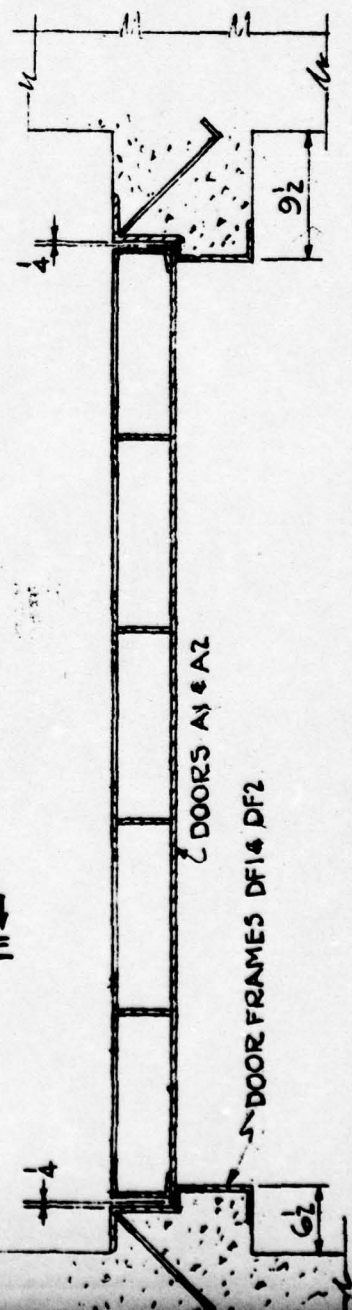
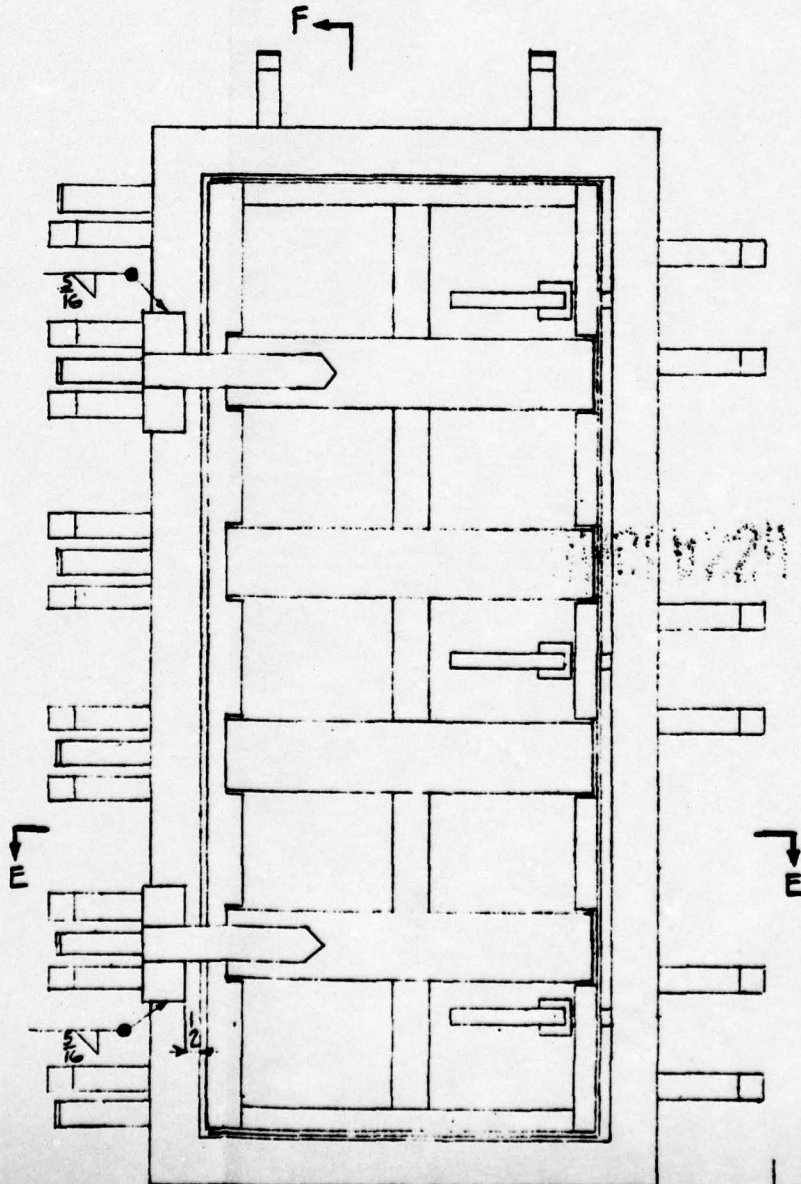
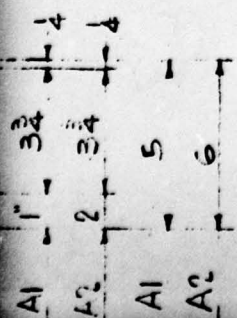
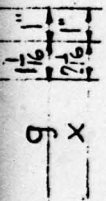
DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTS.	WEIGHT	Pile			LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LENGTH PATTE
						3							
3 x 3 1/2 x 3/8 (MITRE)	7'-3	x ^L	A7	L	RL4				35				
do	3'-1	aa	do		do				36				
1 x 1 x 3/16 (MITRE)	6'-7 1/4	ab ^R	A7 MERCH. BAR QUAL						37			Ship July 72	
	6'-7 1/4	ab ^L							38				
	2'-6	ac							39				
4 x 4 (BEND)	0'-6	ad	A7 MERCH. BAR QUAL		ML-6-11				40				
1 x 1 x 3/16	0'-1	af	do						41				

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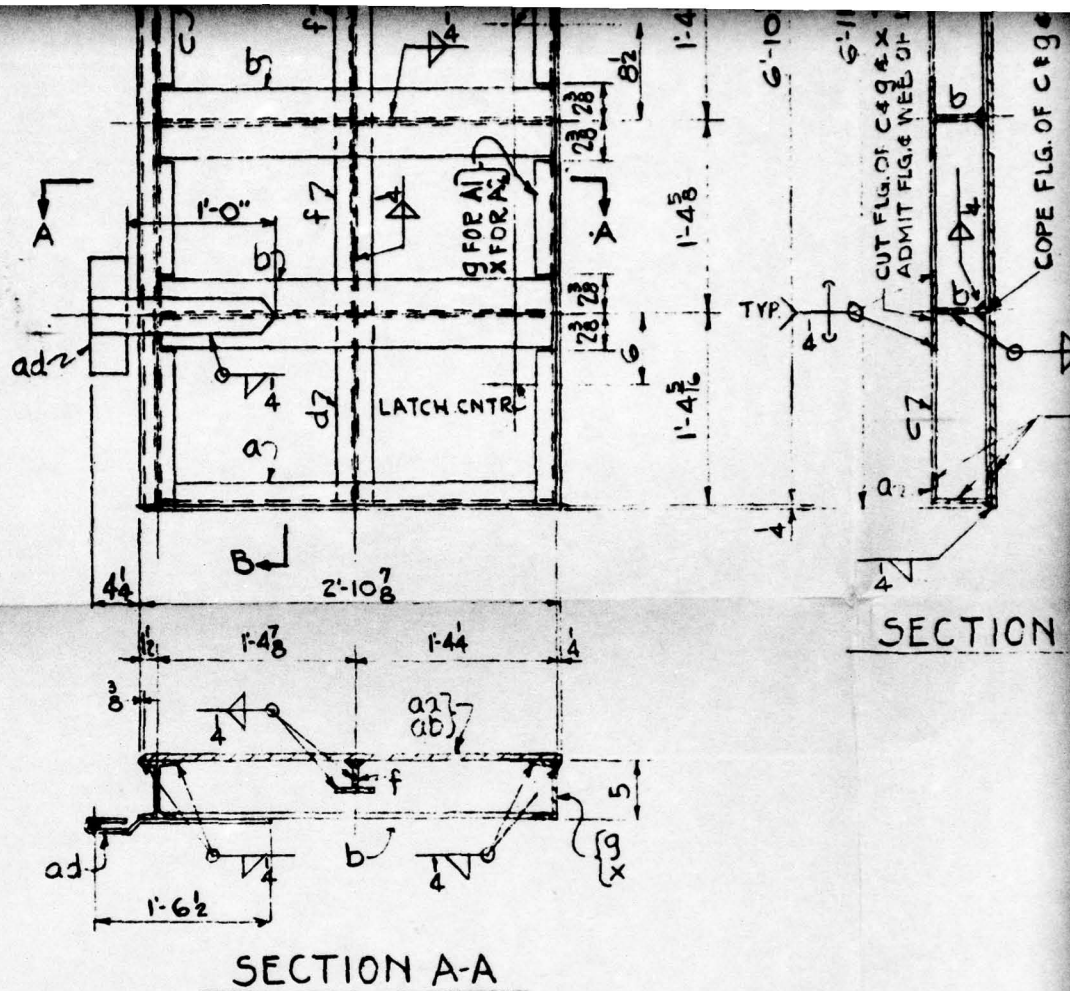
3

ONLY



DOORS A1 & A2

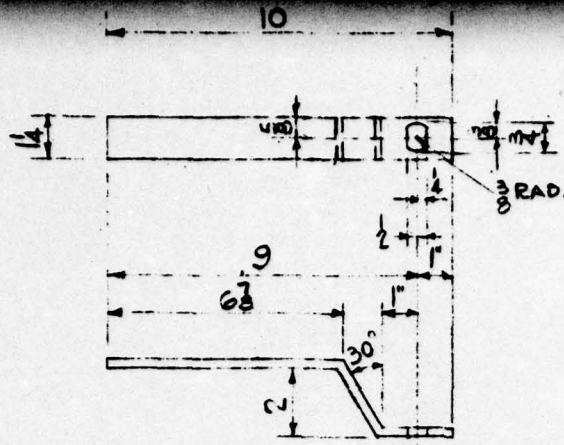
DOOR FRAMES DF1 & DF2



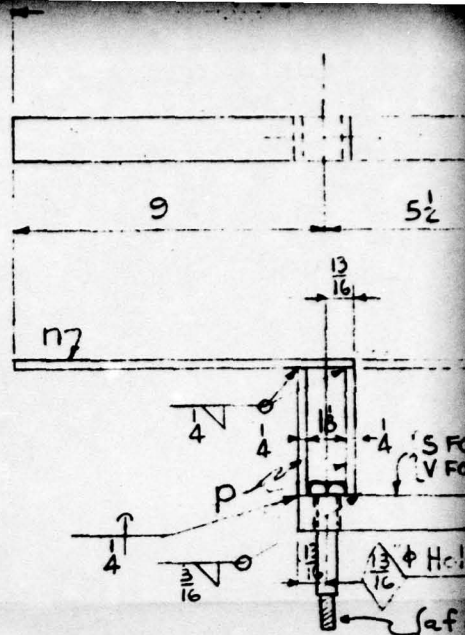
SECTION A-A

STRESS RELIEVE { ONE DOOR A1
ONE DOOR A2

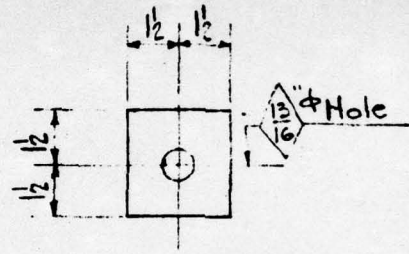
LINE	QTY.	DETAIL	DESCRIPTION	LENGTH OR	PIECE	MATERIAL	DEPTH	WEIGHT	Pile			LINE	SHIP	DETAIL
									PCS.	PCS.	PCS.			
1	1		DOOR FRAME		A1	A7	LBL		3			18	1	A1
2	1		do		A2	A7	LBL		1			19	1	A2
	4		3L 9.0	2'-8 1/2	a	A7	L	RL3				20	3	BA
	8		ST 5 I 12.7 (10 I 25.4)	2'-8 1/2	b							21	4	ST
	2		5 I 10	6'-10 1/2	c							22	3	I
	4		ST 3 I 6.25 (6 I 12.5)	1'-3 3/4	d							23	12	WA
	6		do do	1'-4 1/4	f							24	55*	SH
	1		5L 9.0	6'-10 1/2	g							25		
	6		BAR 1 1/2 x 1/4 (BEND)	0'-11 1/2	k	AT MERCH. BAR		RL4				26		
	6		BAR 3 x 1	0'-3	m	A7		ML 6 1/2				27		rel
	6		BAR 1 1/2 x 1/4	0'-9 1/2	n	AT MERCH. BAR		RL4				28		
	12		BAR 1 1/2 x 1/4	0'-3 3/4	p			do				29		
	3		BAR 1 1/4 x 1	0'-6 1/2	s			ML 6 1/2				30		
	3		BAR 1 1/4 x 1/2	0'-6 1/2	y							31		
	2		3/8" BOLT W/ H. NUT	0'-4	w	Comm. Bolt						32		
	1		5L 9.0	6'-10 1/2	x	A7		RL3				33		
												34		



INSIDE HANDLE K



OUTSIDE HANDLE



BEARING PLATE m

FLATS TO BE PARALLEL TO SHORT DIAMETER OF BOLT HEAD.

GRIND FLAT ON 2 SIDES



BOLT W FOR A1
BOLT af FOR A2

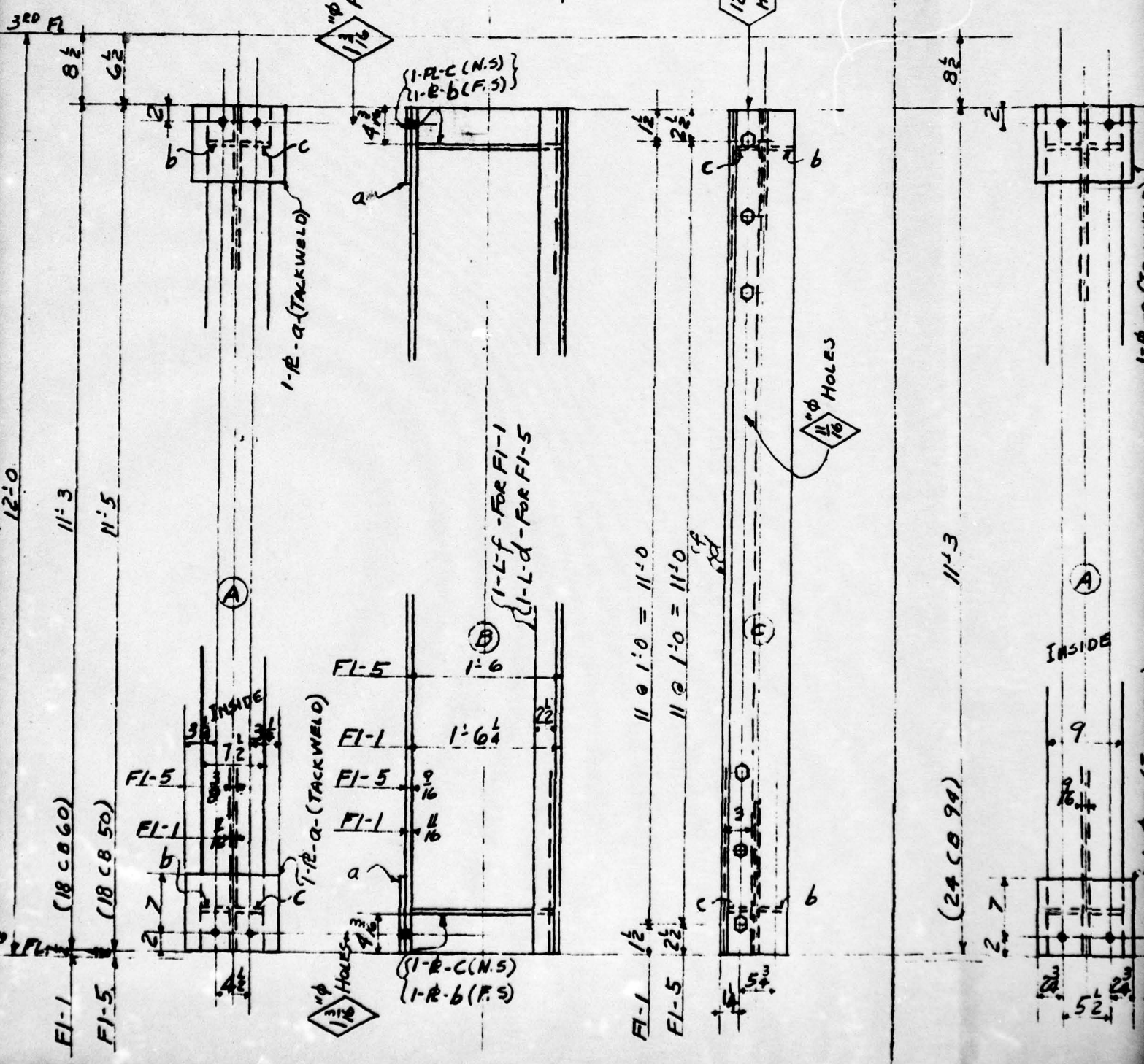
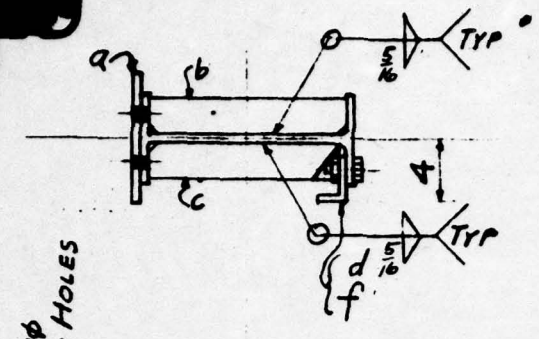
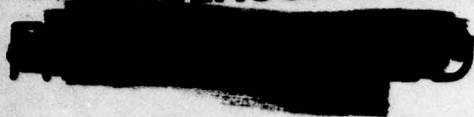
FIG. A2.62

DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPT.	WEIGHT	LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION
P. 2'-10 1/2 x 1/16	G-11	aa	A7	L	RL4	35			
P. 2'-10 1/2 x 1/16	G-11	ab	A7			36			
AR 1/2 x 3/8	0-9	ac	AT MERCH. BAR Q'AL.			37			
WILEY H DB997 WAVE HINGE (CUT)	1'-6 1/2	ad	RO 23124			38			
H.H. BOLT w/H. NUT	0'-5	af	Comm'l. Qual.			39			
WASHERS 4 TH. 1/2 + HOLE			Comm'l. Qual.			40			
SHOP WELD E7010-11-20						41			
						42			
						43			
						44			
						45			
						46			
						47			
						48			
						49			
						50			
						51			

Bars A1 & A2 to be stress relieved after welding

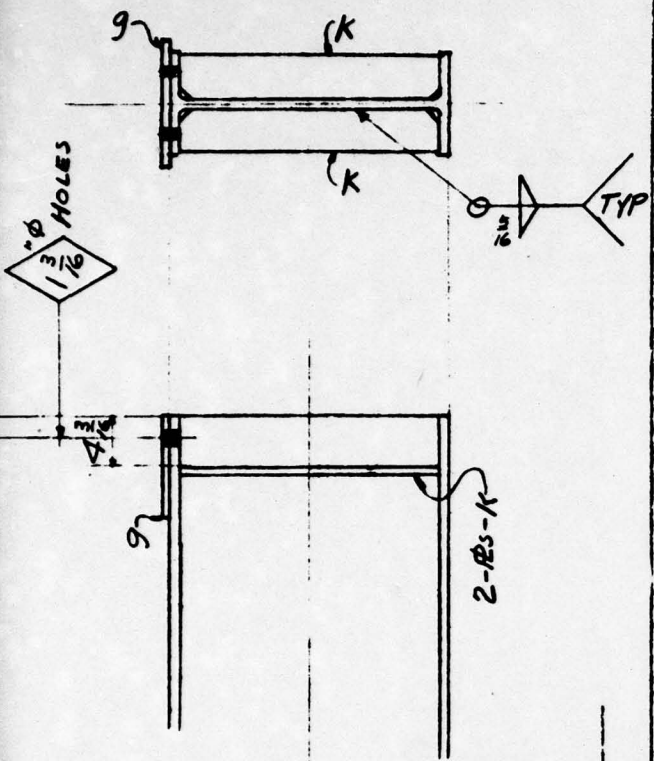
Ship July 7th 1950

UNCLASSIFIED

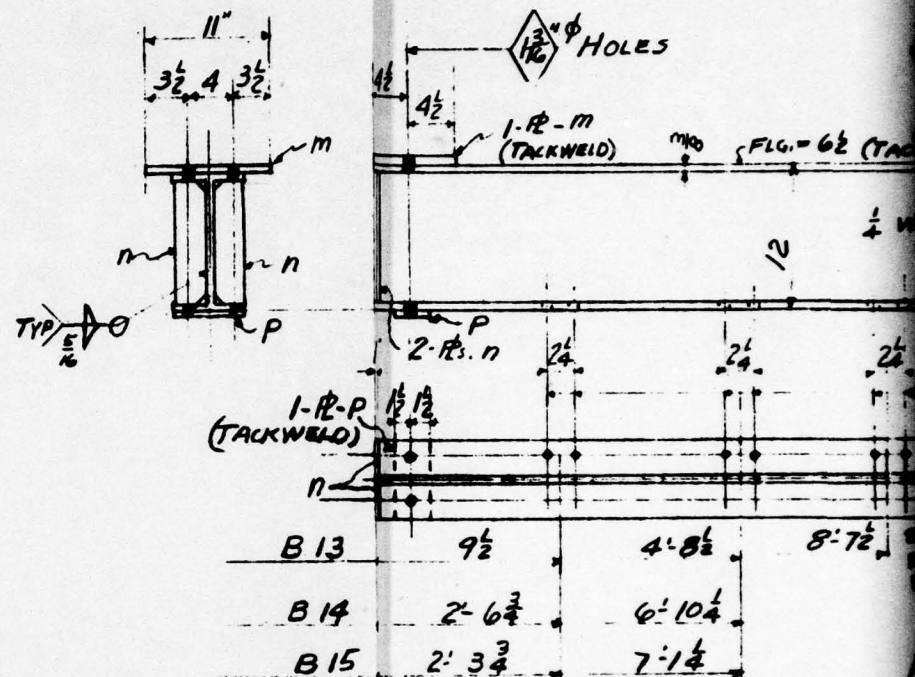


1-R-9 (TACKWELD)

1-R-9 (TACKWELD)

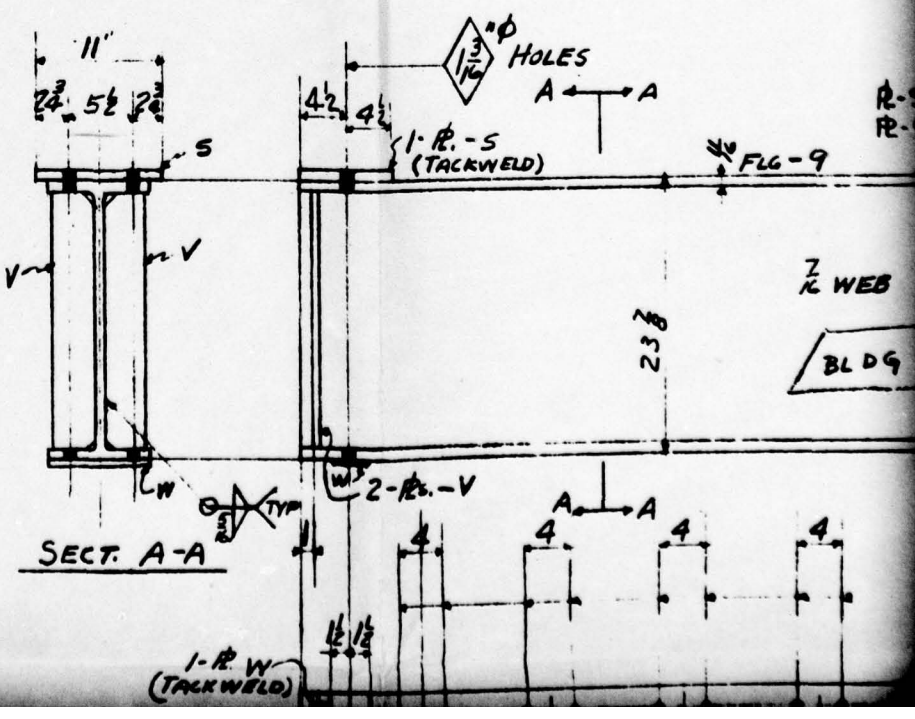


FACE C PLAIN



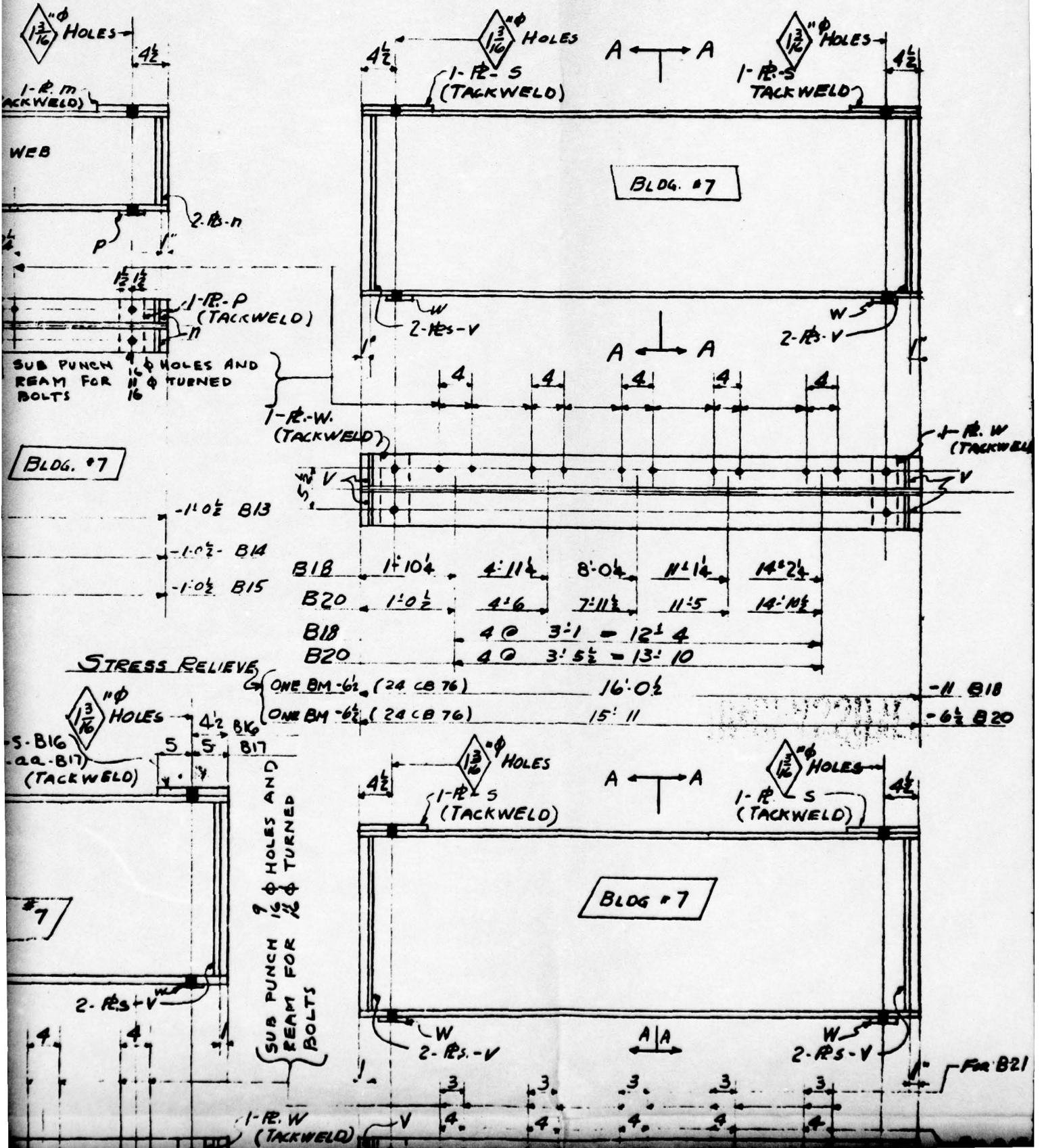
STRESS RELIEVE

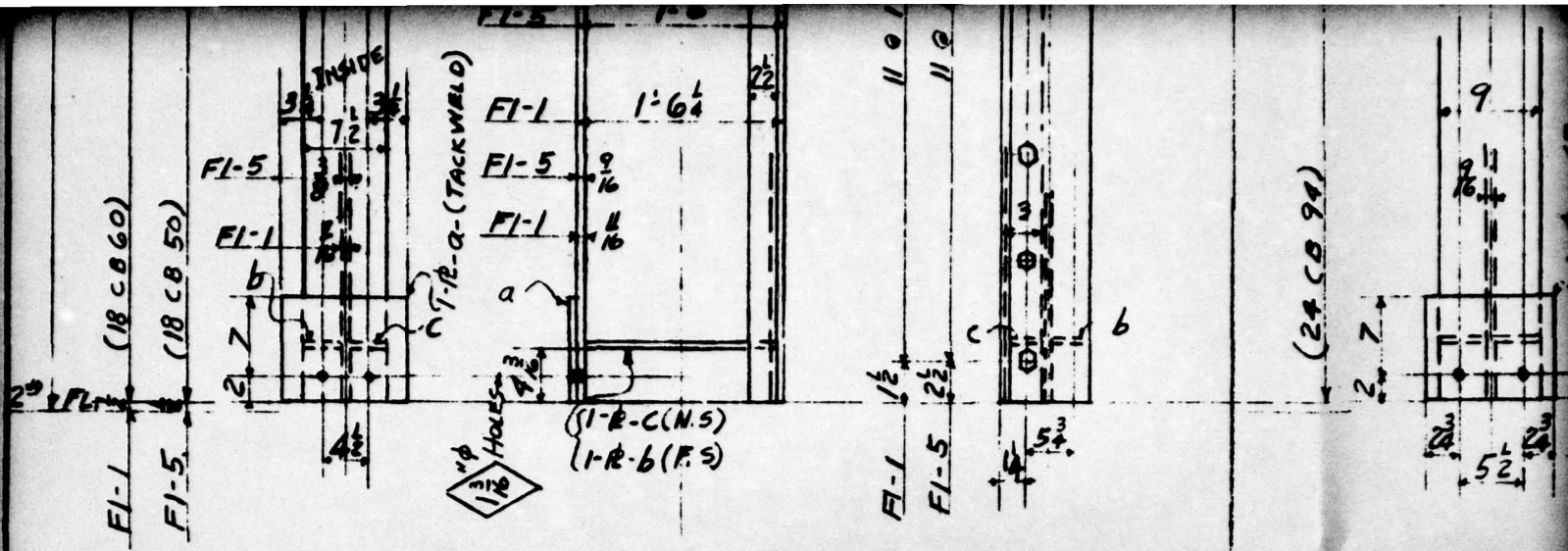
ONE BM - 6" (12 CB 27)	9'-5"
ONE BM - 6" (12 CB 27)	9'-5"
ONE BM - 6" (12 CB 27)	9'-5"



SECT. A-A

Z WEB
BLDG

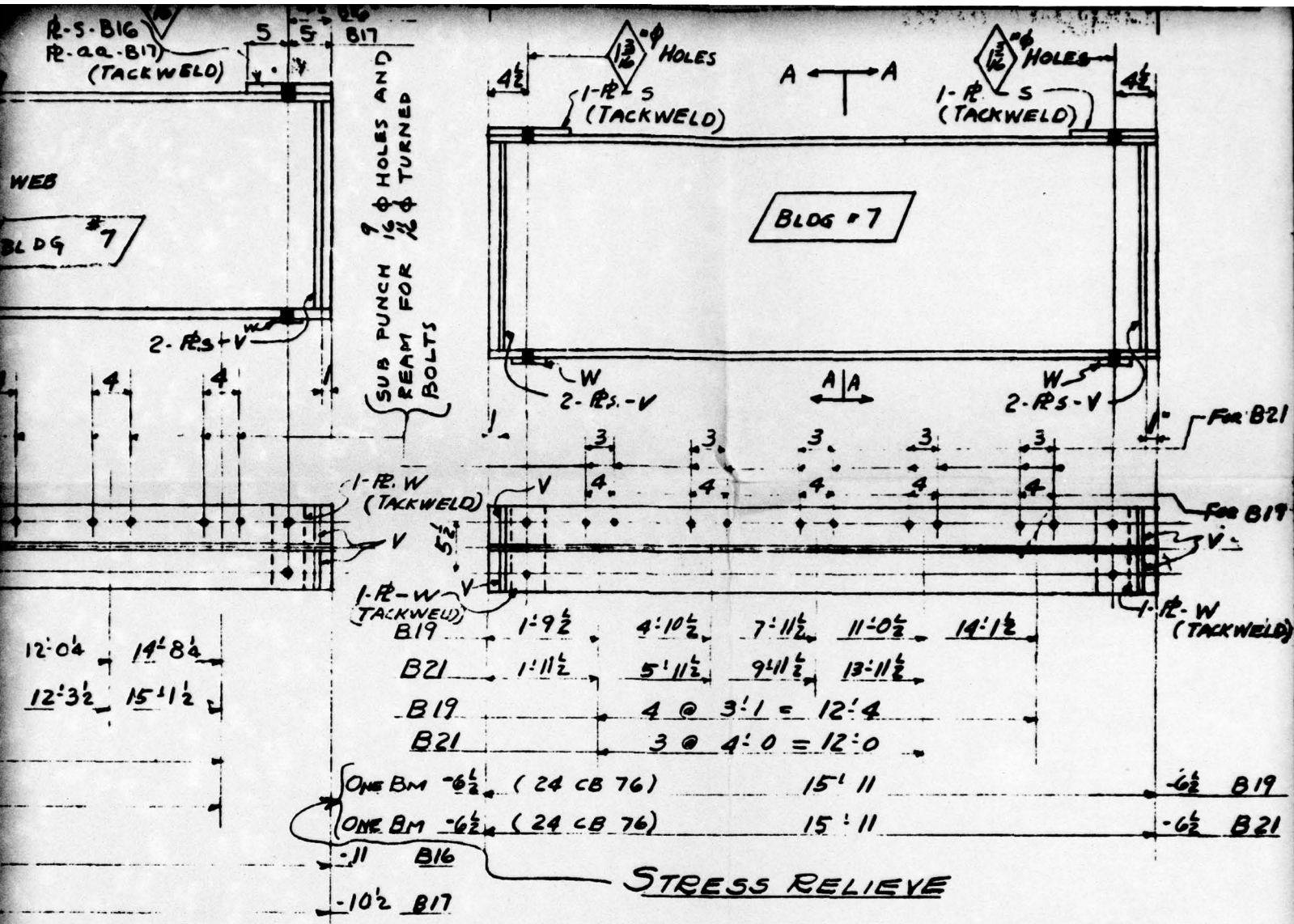




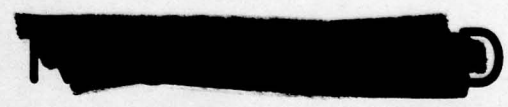
STRESS RELIEVE { 1-POST FI-5 (SHOWN) } BLDG. #1
 { 1-POST FI-1 (OPP.) }

STRESS RELIEVE { 1-POST }

LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTH.	MILL LIST	FILE	LINE	SHIP. PCS.	DETAIL PCS.
1	1		18 CB 50	11 1/5	FI-5	A7	SBS		3	18	4	R 94
2	1		18 CB 60	11 1/3	FI-1		SBS		1	19	4	STIFF
3										20	4	STIFF
4										21	1	1-3



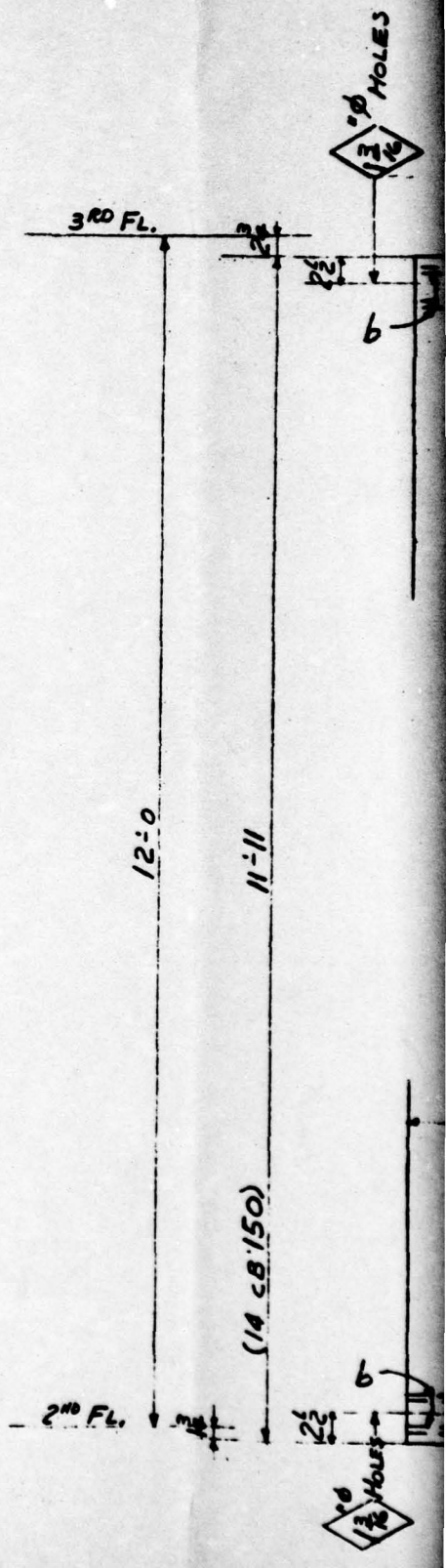
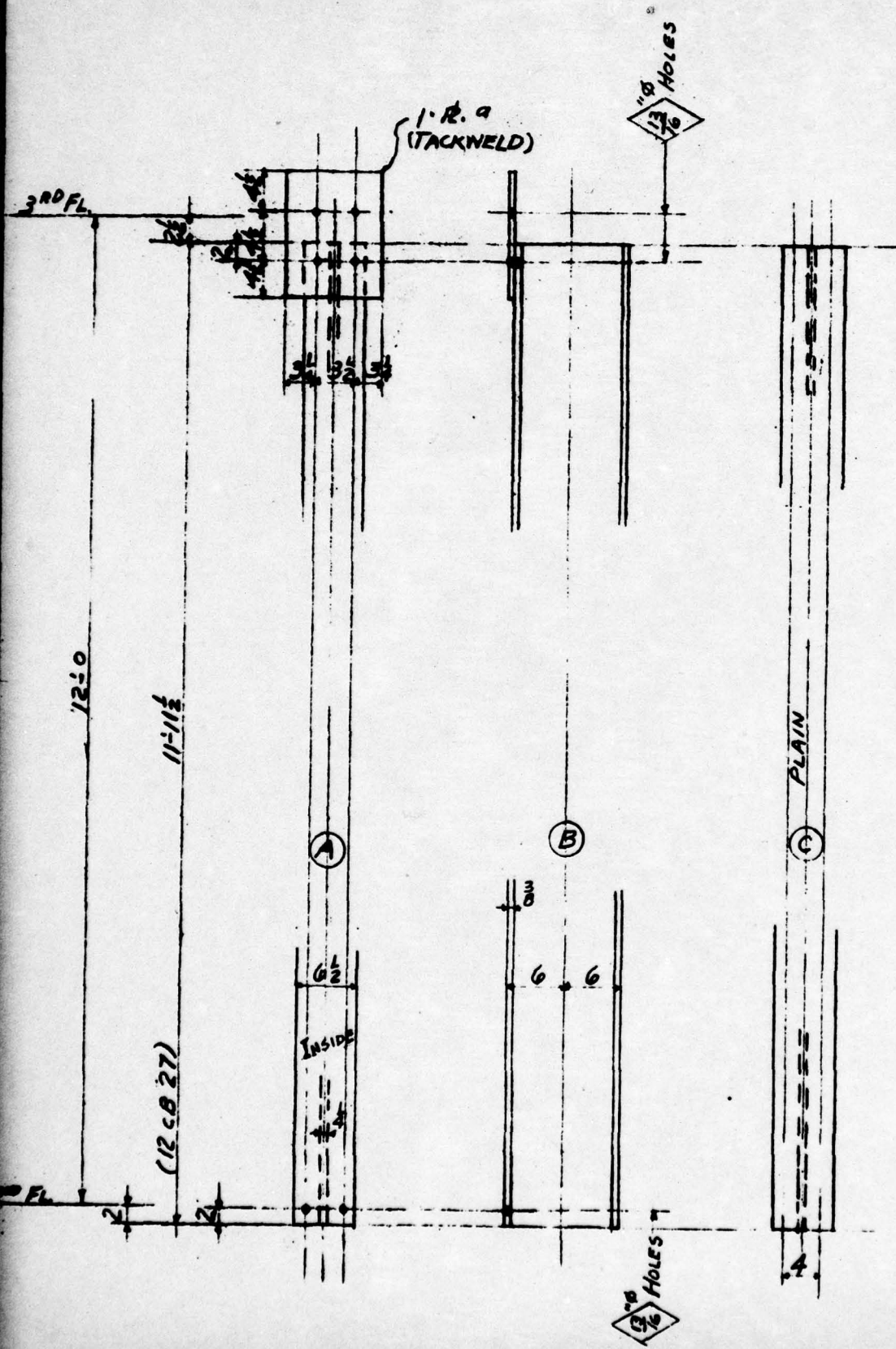
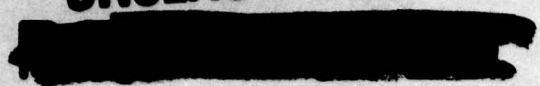
UNCLASSIFIED



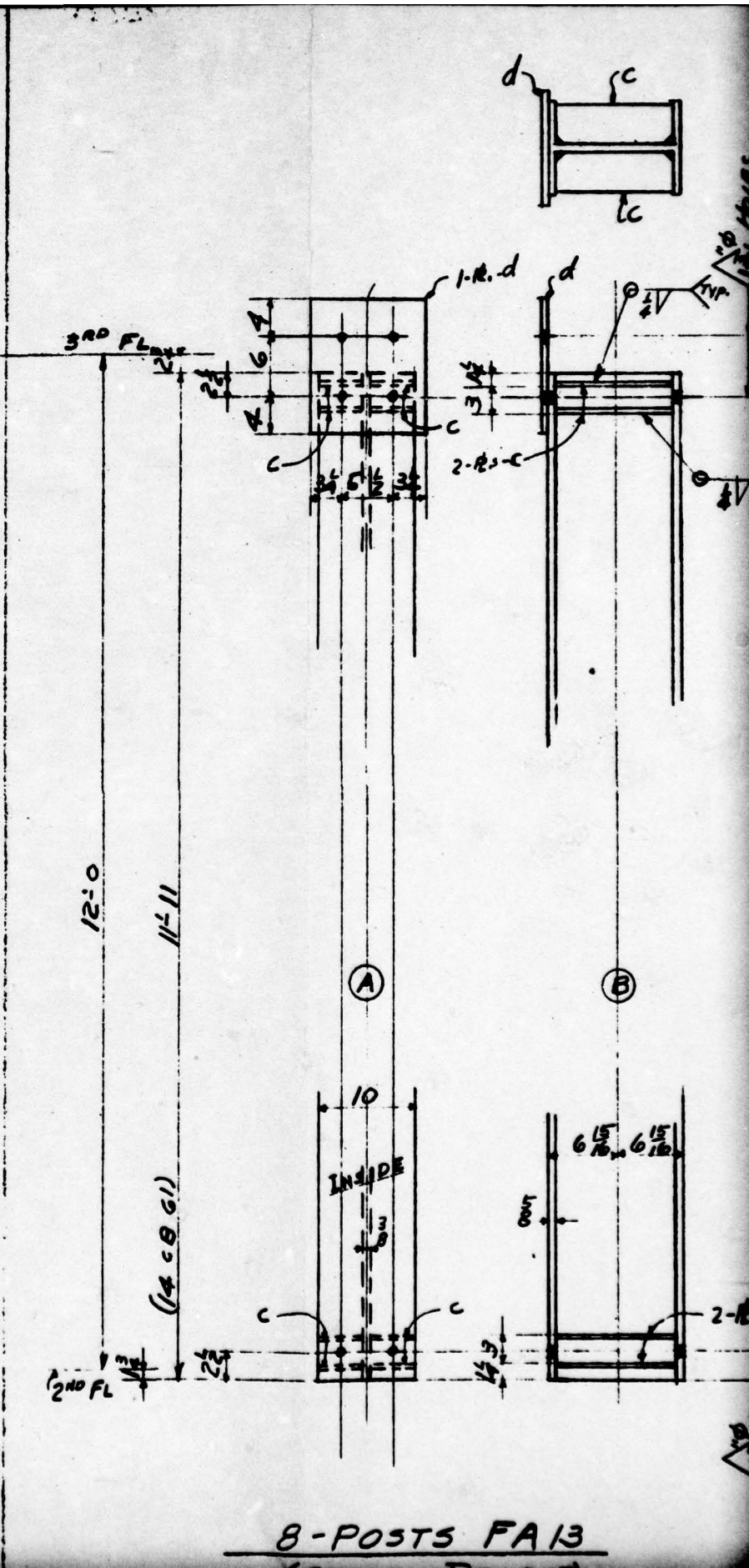
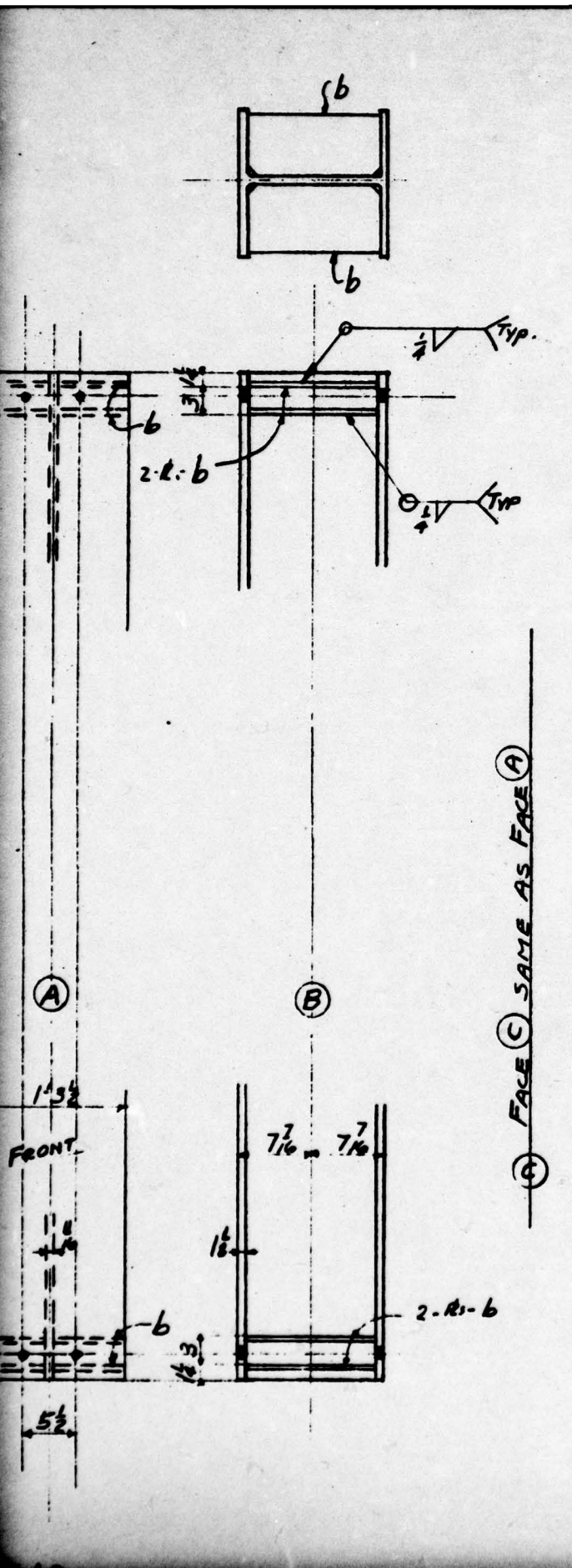
LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTS.	WEIGHT
F1-1, F1-4 and Beams				
B16, B17, B18, B19, B20				
and Relieved After				

1			
NO.	DATE	BY	REVISION
HOLES AS NOTED			PAINT 1- SHOP COAT

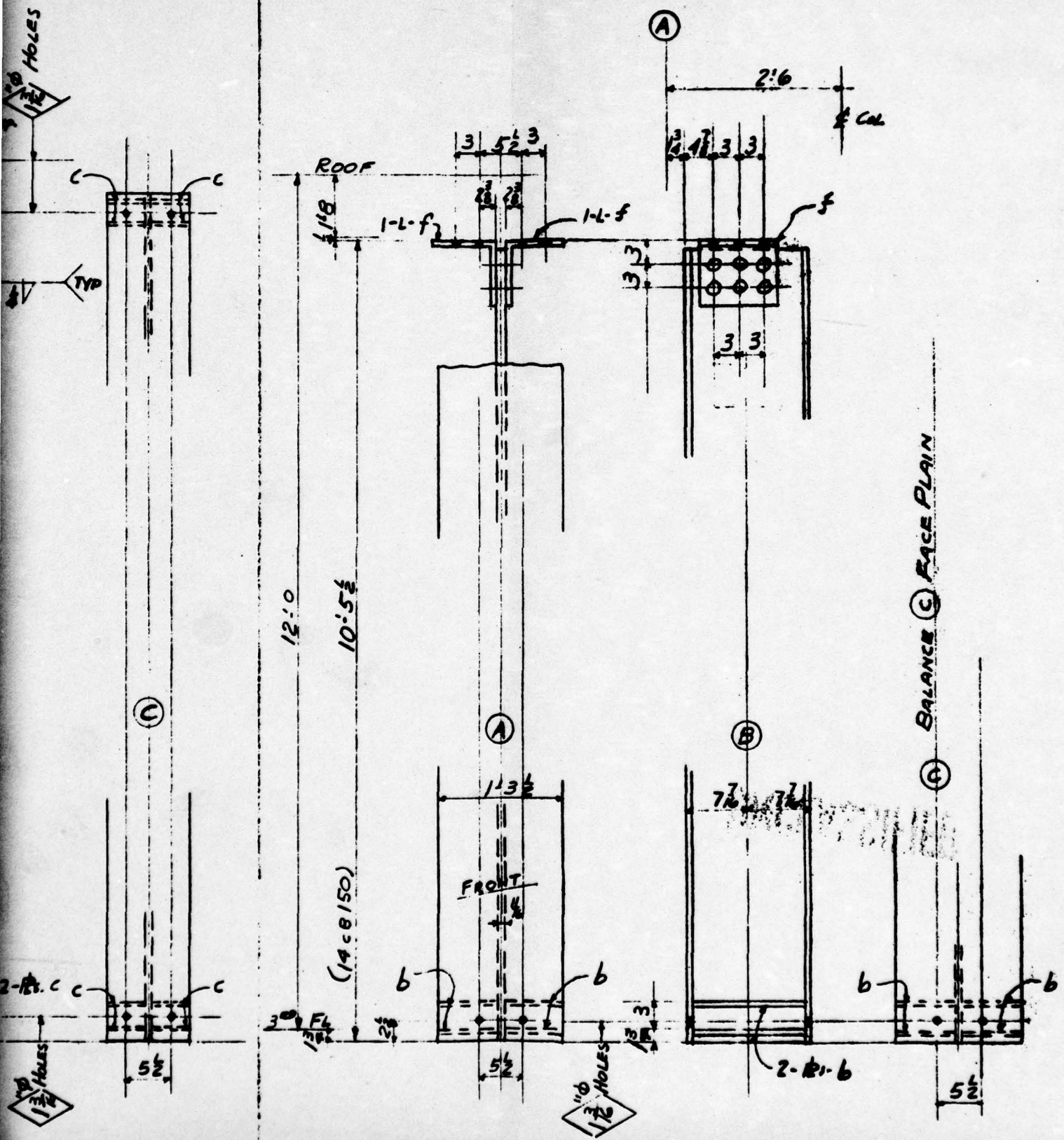
UNDERGROUND



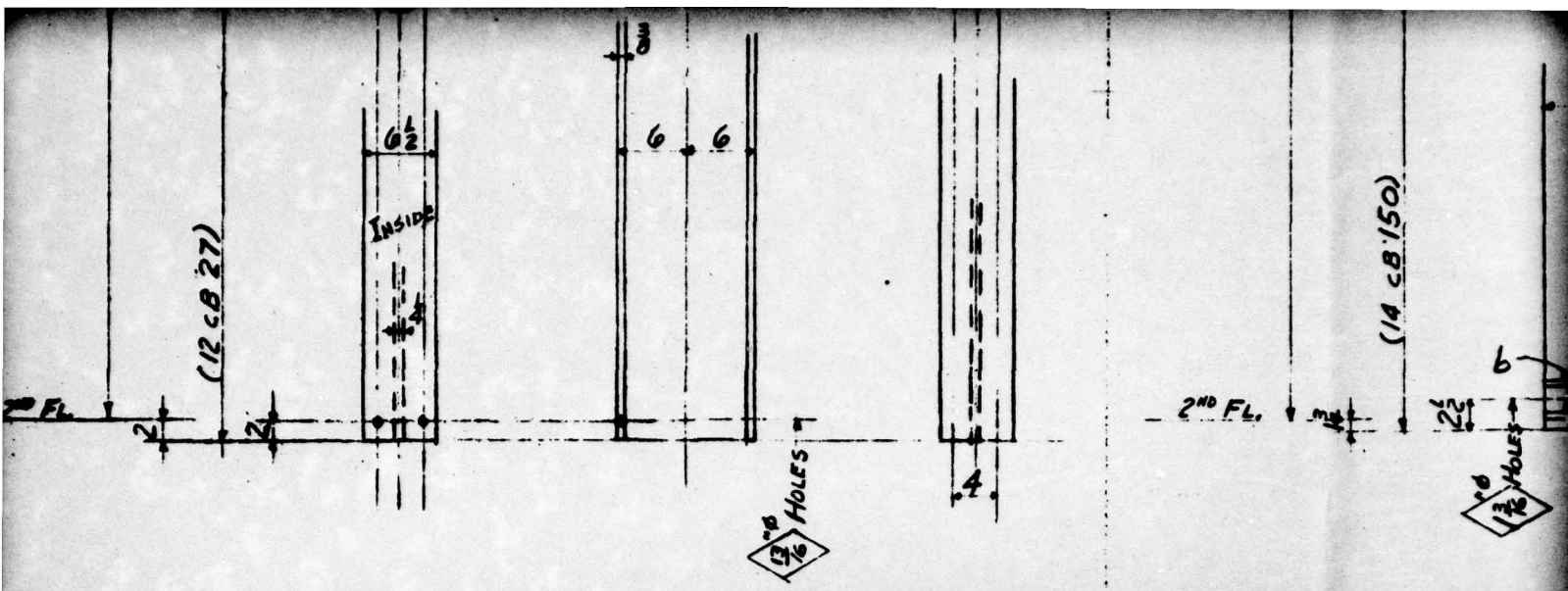
A PORTER FD 12



8-POSTS FA 13



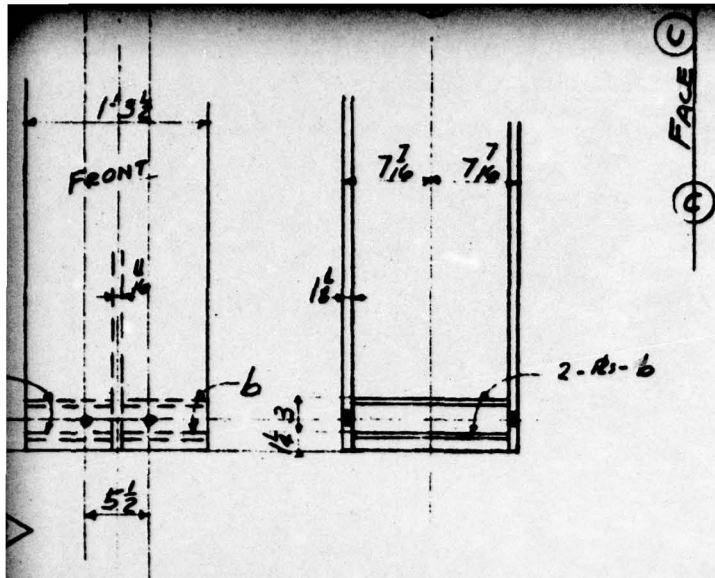
2-POSTS FA14
(STRESS RELIEVE)



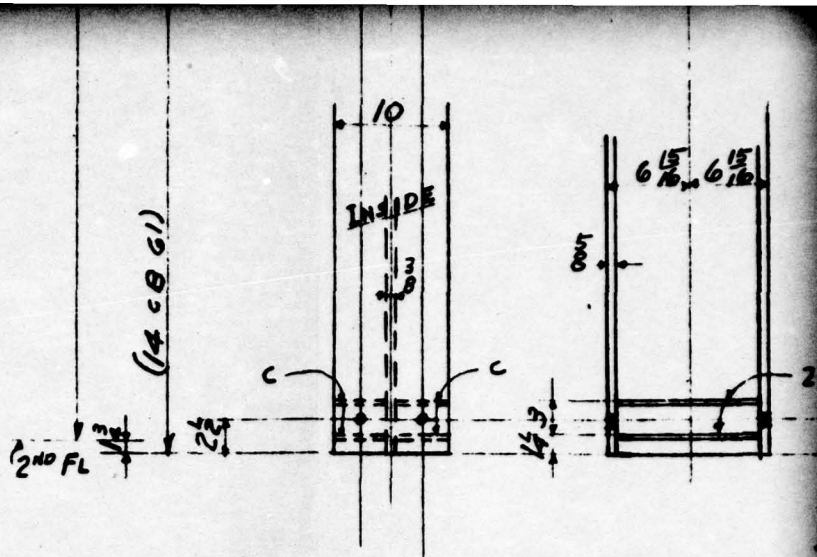
4 POSTS FD13

2-POSTS F
(STRESS R

LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPT.	REMARKS	PILE				LINE	SHIP. PCS.	DETAIL PCS.
									1	2	3	4			
1	4		12 CB 27	11' 11 1/2"	FD13	A7	S	1-ML 4-18 2-ML 4-20	4				18	4	R 10
2	2		14 CB 150	11' 11"	FA12		SBS	ML 3/29	2				19	24	STIFF
3													20	64	STIFF
4	8		14 CB 61	11' 11"	FA13		SBS	ML 4/6	8				21	8	PL 12
5	2		14 CB 150	10' 5"	FA14		SBS	ML 3/31	2				22	4	L 8x
6													23		
7													24		
8													25	56	LBs. S
9													26	12	SHOP
10													27		
11													28		Posts M
12													29		5 Stress
13													30		
14													31		
15													32		
16													33		
17													34		

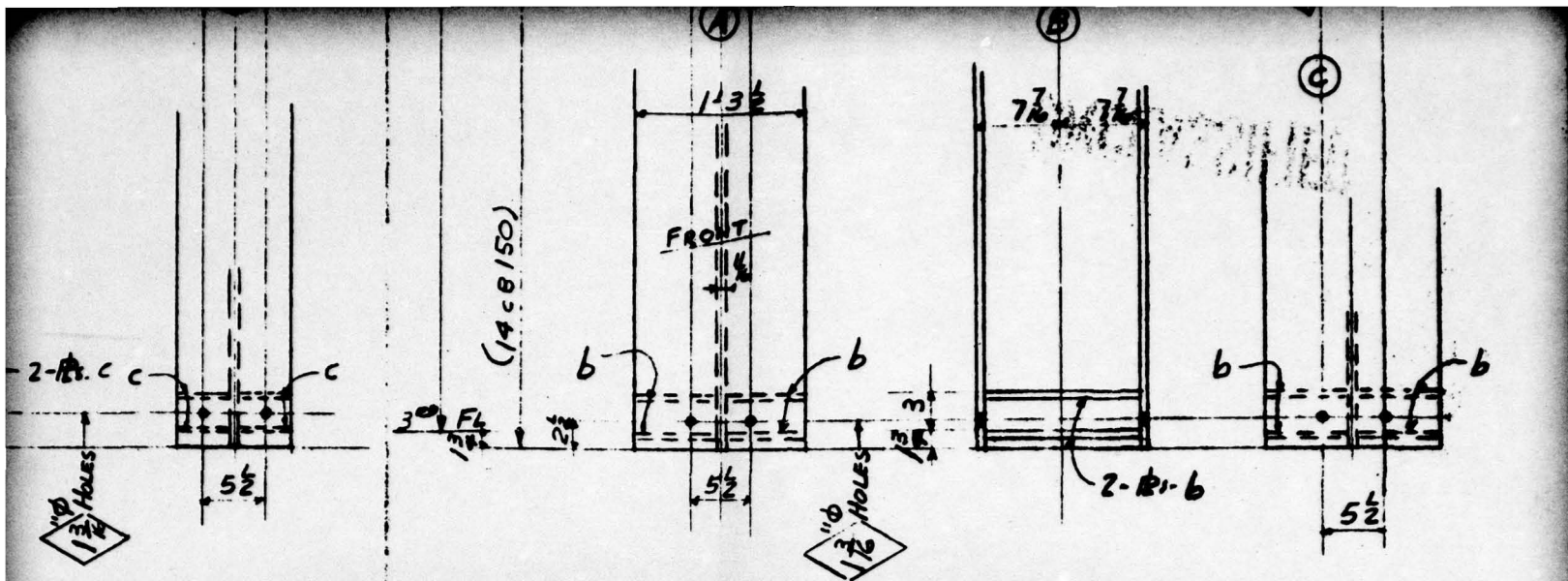


FA12
(STRESS RELIEVE)



8-POSTS FA13
(STRESS RELIEVE)

FIG. A2.64



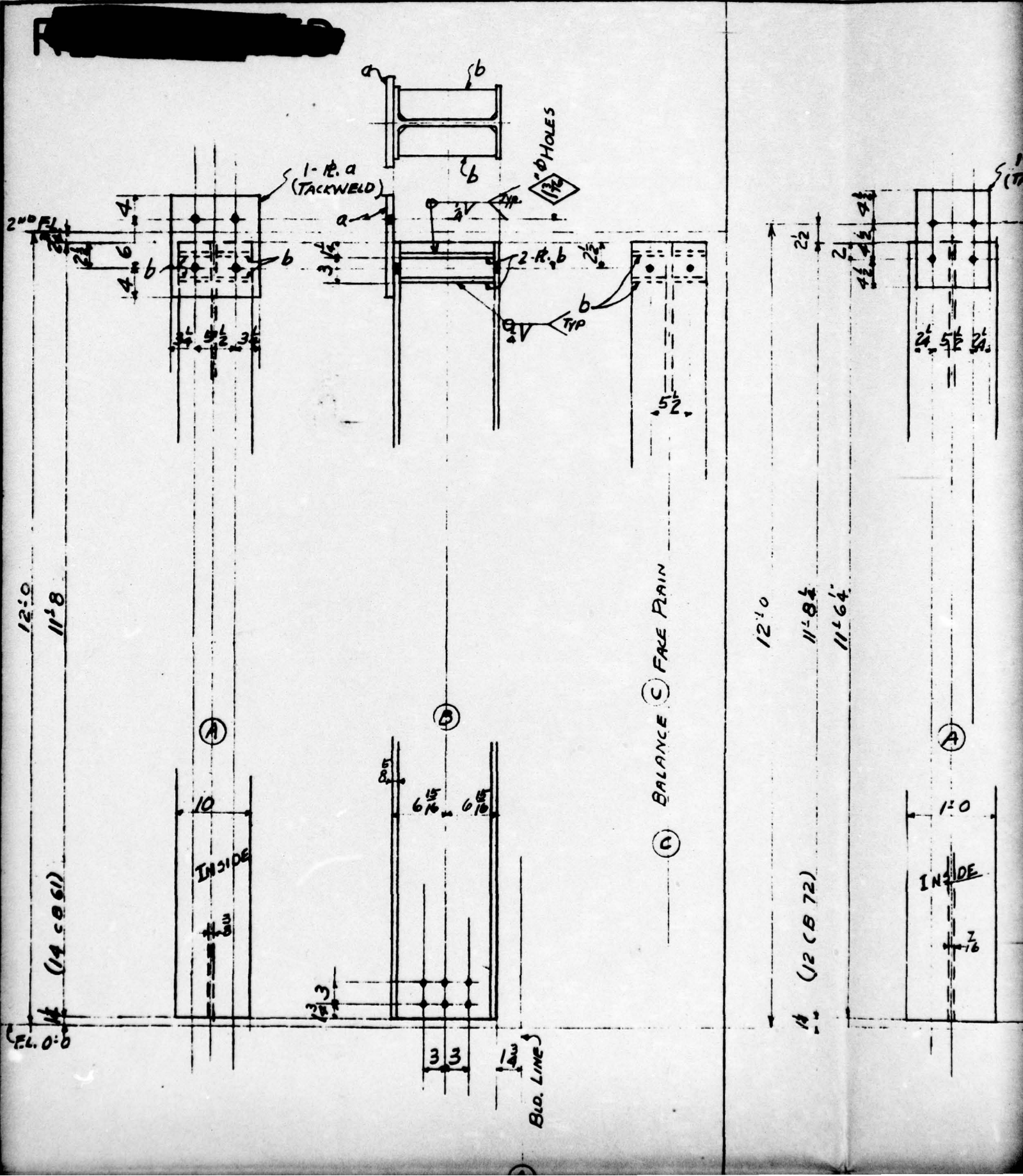
2-POSTS FA14
(STRESS RELIEVE)

UNCLASSIFIED

LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTH.	WEIGHT

1				
NO.	DATE	BY	REVISION	
HOLES	1/2" UNLESS NOTED			PAINT 1-SHOP COAT
RIVETS	1" Ø			TT-P-86 RED LEAD BALL
				UNSEED ON READY MIRA

UNCLASSIFIED



12'-0"

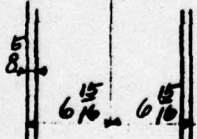
11'-8"

(14.50.61)

FL. 0'-0"

(A)

(B)



3 3

Bld. Line

(C) BALANCE (C) FACE PAIR

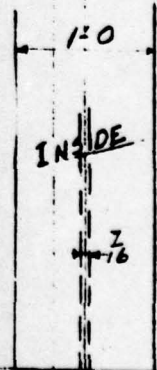
12'-0"

11'-8"

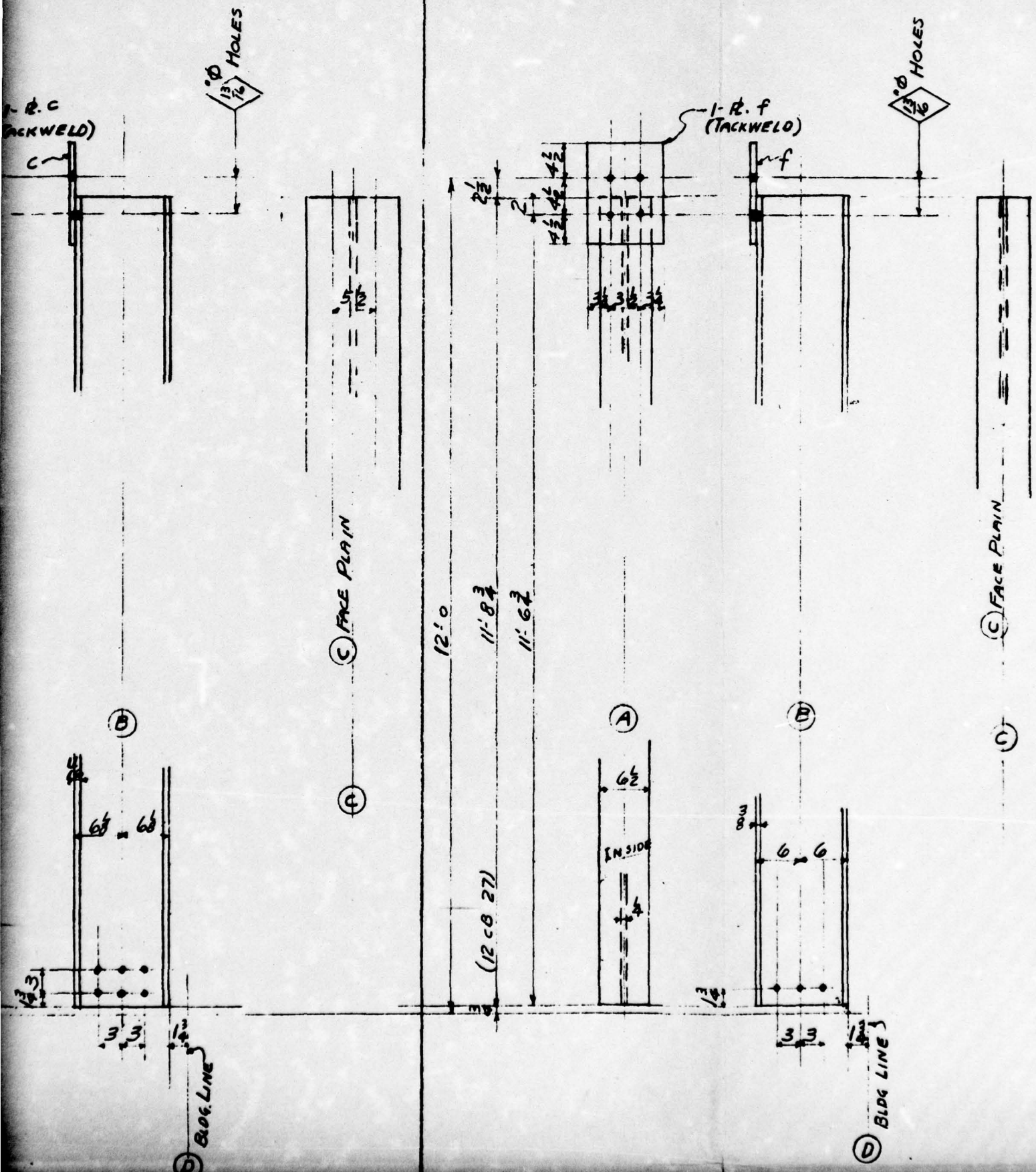
11'-6"

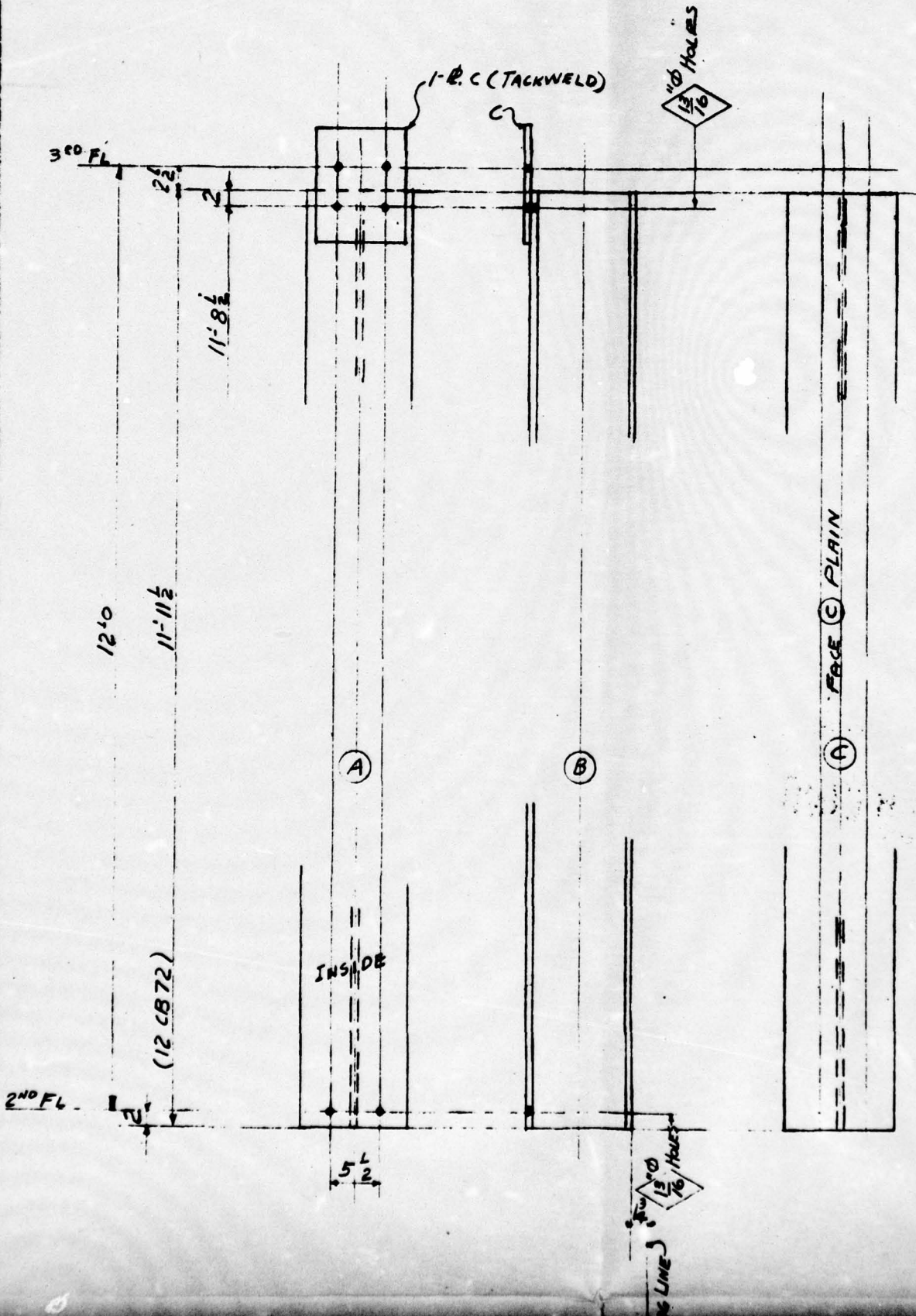
(12.00.72)

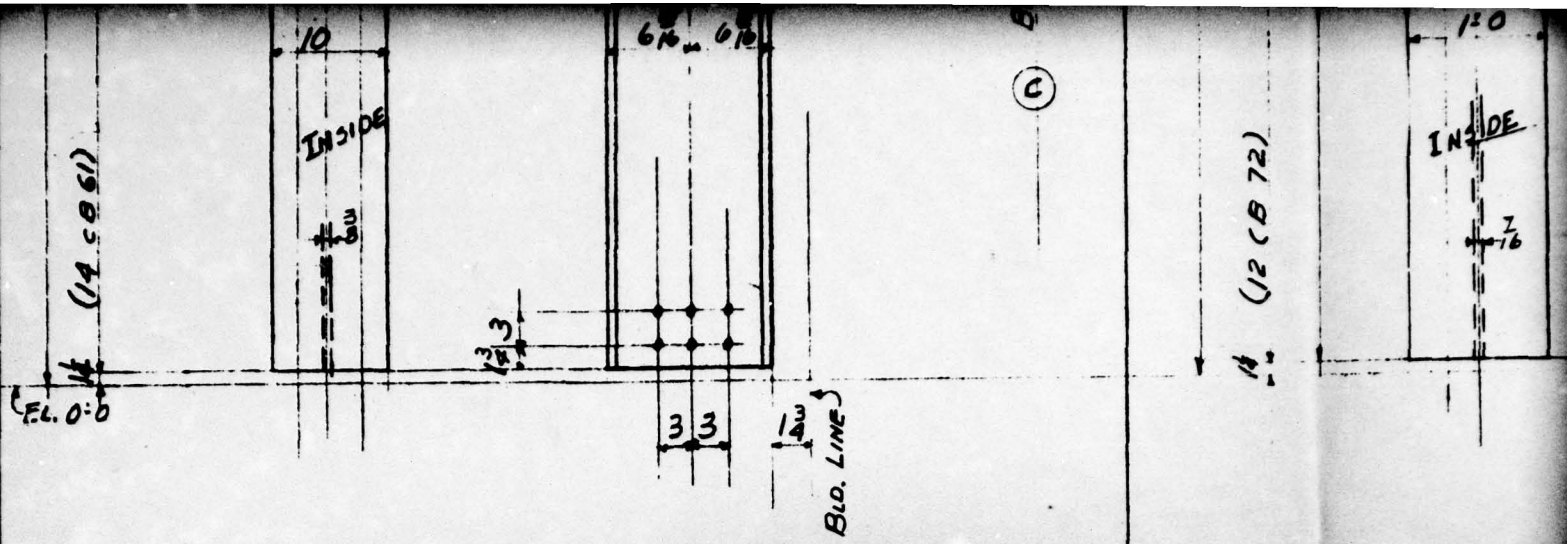
(A)



2 1/8







8-POSTS - FAIL { STRESS RELIEVE }

2-POSTS FD 10

LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTS.	PILE	LINE	SHIP. PCS.	DETAIL PCS.
1	8		14 CB 61	11' 8"	FA 11	A7	SBS ML 2-4/5 6-8/16	8	18	8	R 12
2	2		12 CB 72	11-8 1/2	FD 10		S ML 4/5	2	19	32	STR
3	4		12 CB 27	11-8 3/4	FD 11		S ML 4-10 2-20	4	20	4	R 10
4	2		12 CB 72	11-11 1/2	FD 12		S ML 4/5	2	21		
5									22	4	R 10
6									23		
7									24		
8									25	26	LBS.
9									26		
10									27		
11									28		Posts -
12									29		W
13									30		
14									31		
15									32		
16									33		
17									34		

A

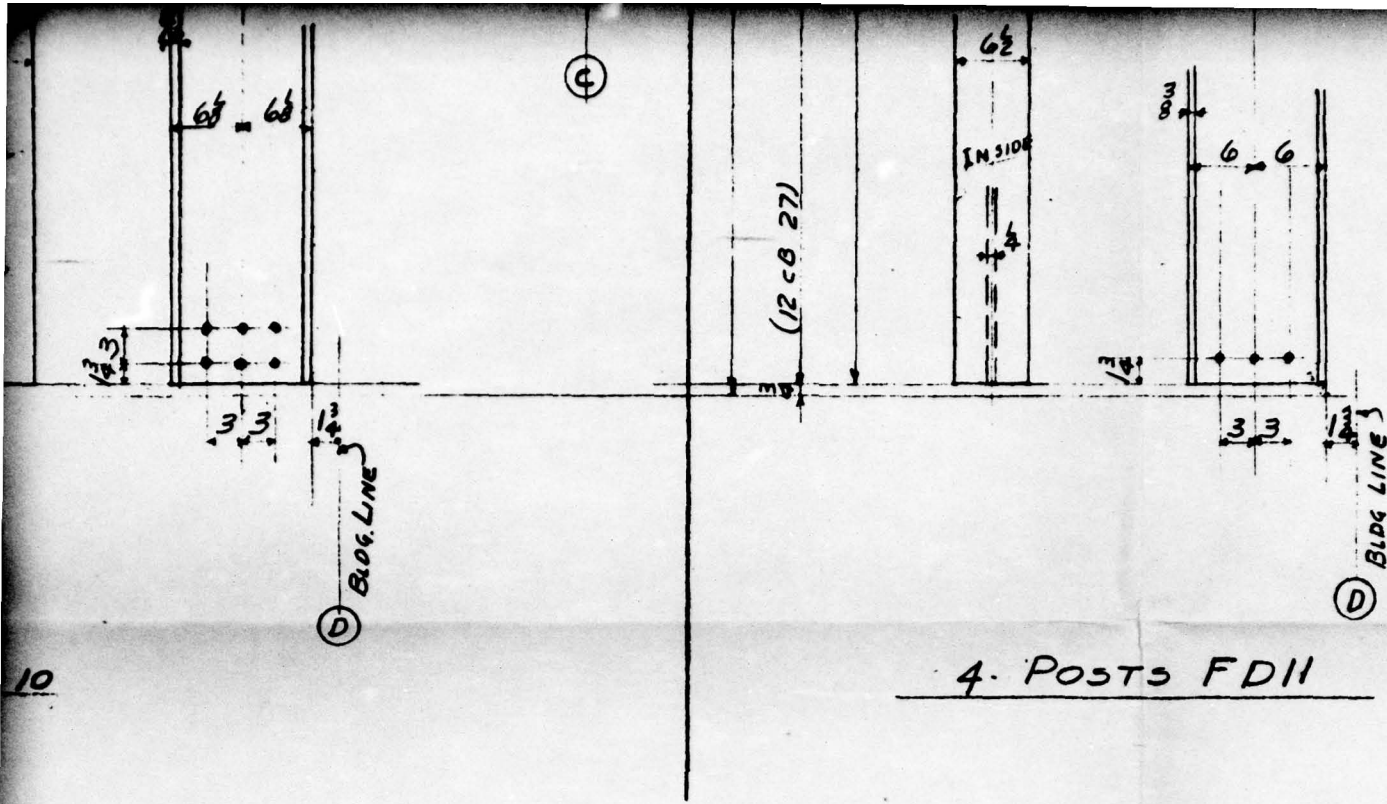
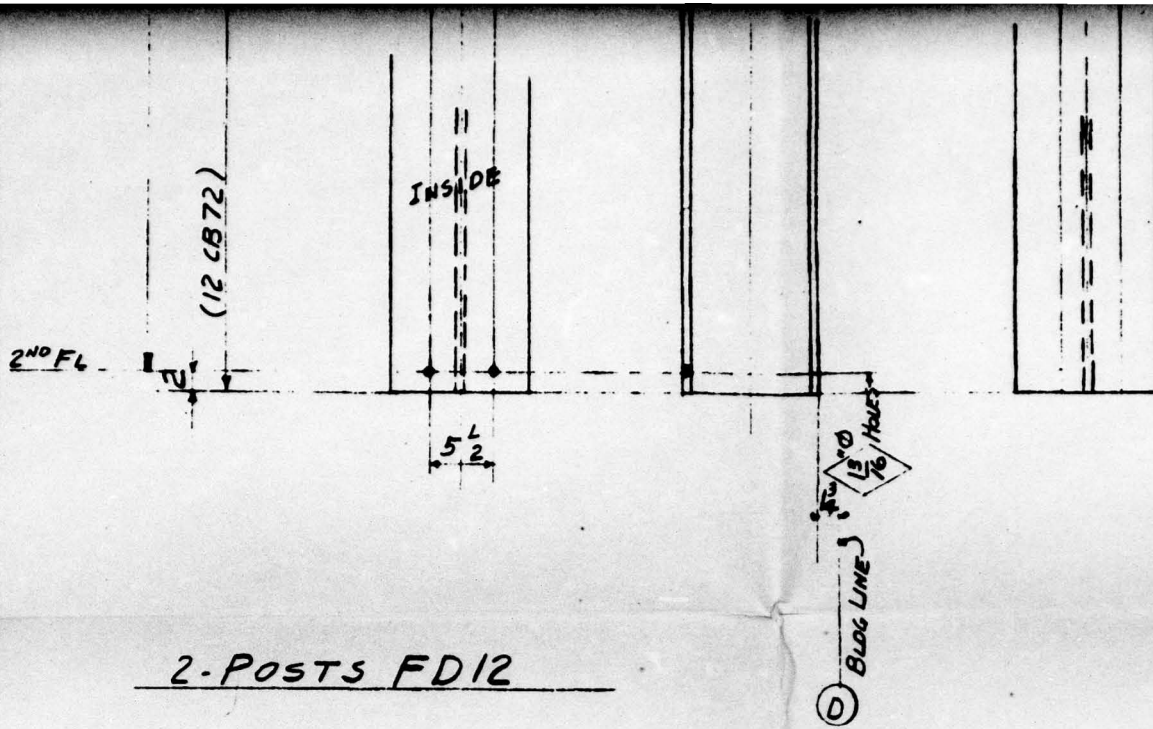


FIG. A2.65

DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTS.		LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION
12 x 1	1-2	a	A7	S	ML 4/11	35			
TIFF 4 1/2 x 1/2	1-0 1/2	b	A7 METAL (See Assembly)			36			
10 x 1/2	1-1 1/2	c	A7			37			
						38			
10 x 1	1-1 1/2	f			ML 4/11	39			



2-POSTS FD12

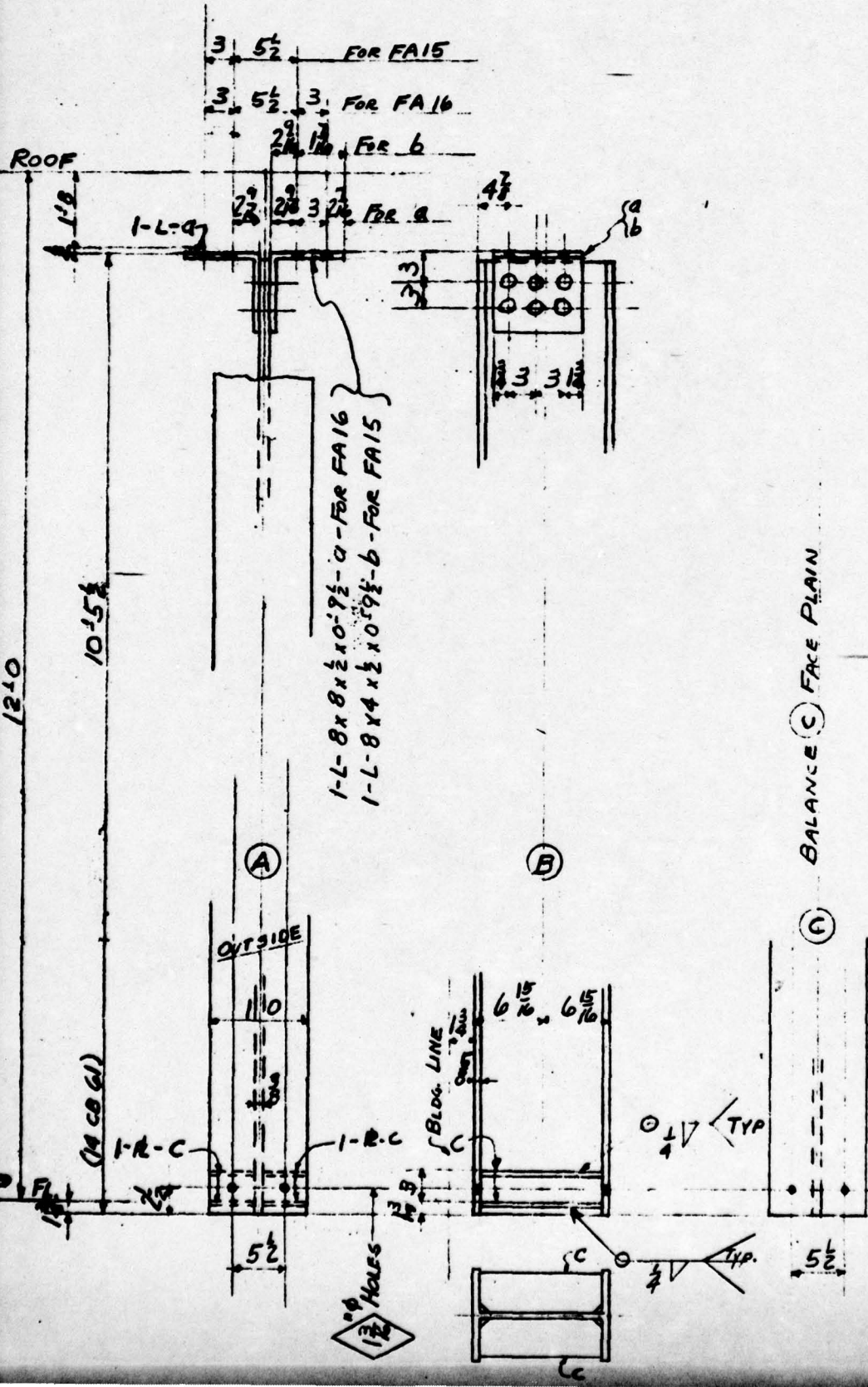
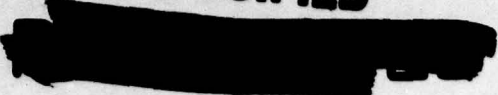
13.0
1/16 HOLES
BLOG LINE
①

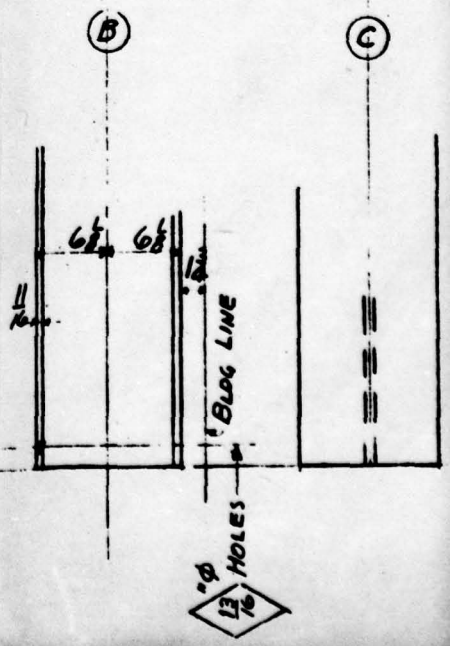
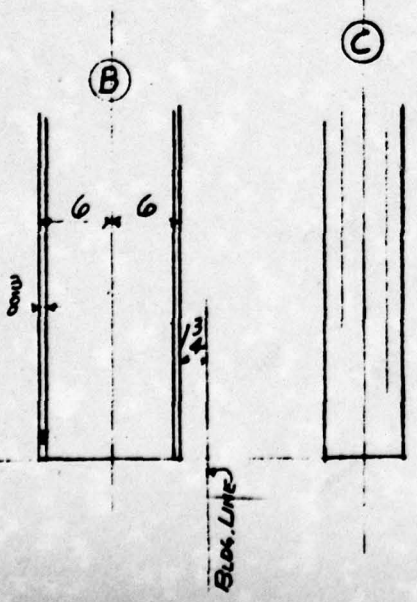
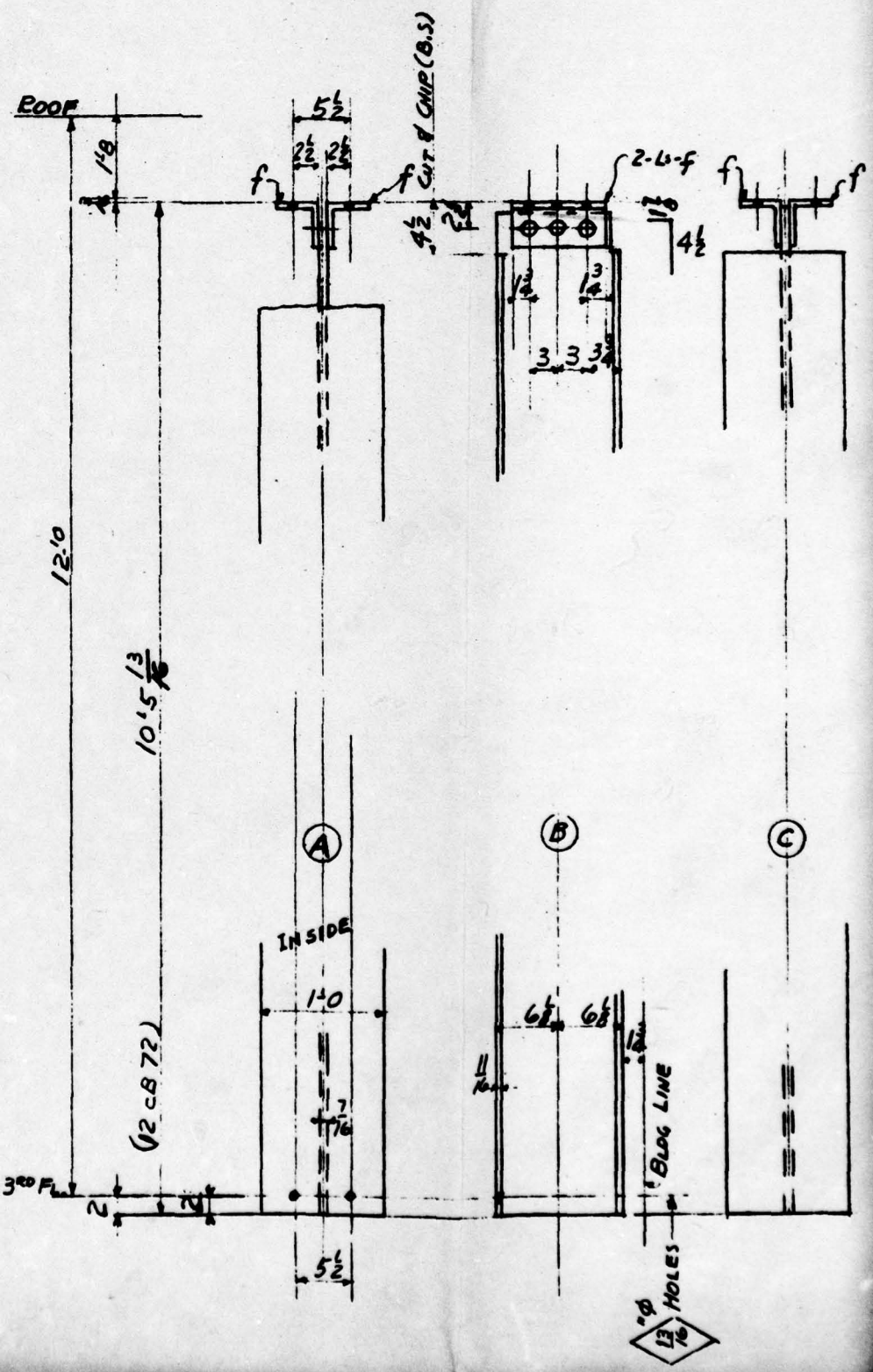
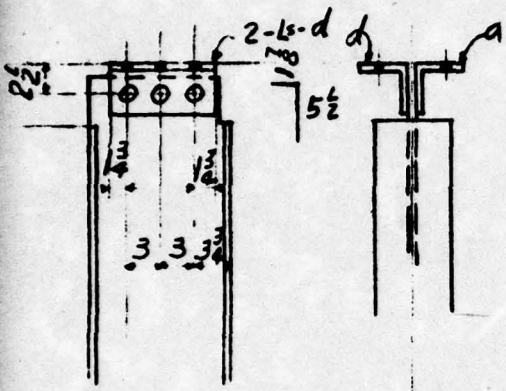
UNCLASSIFIED

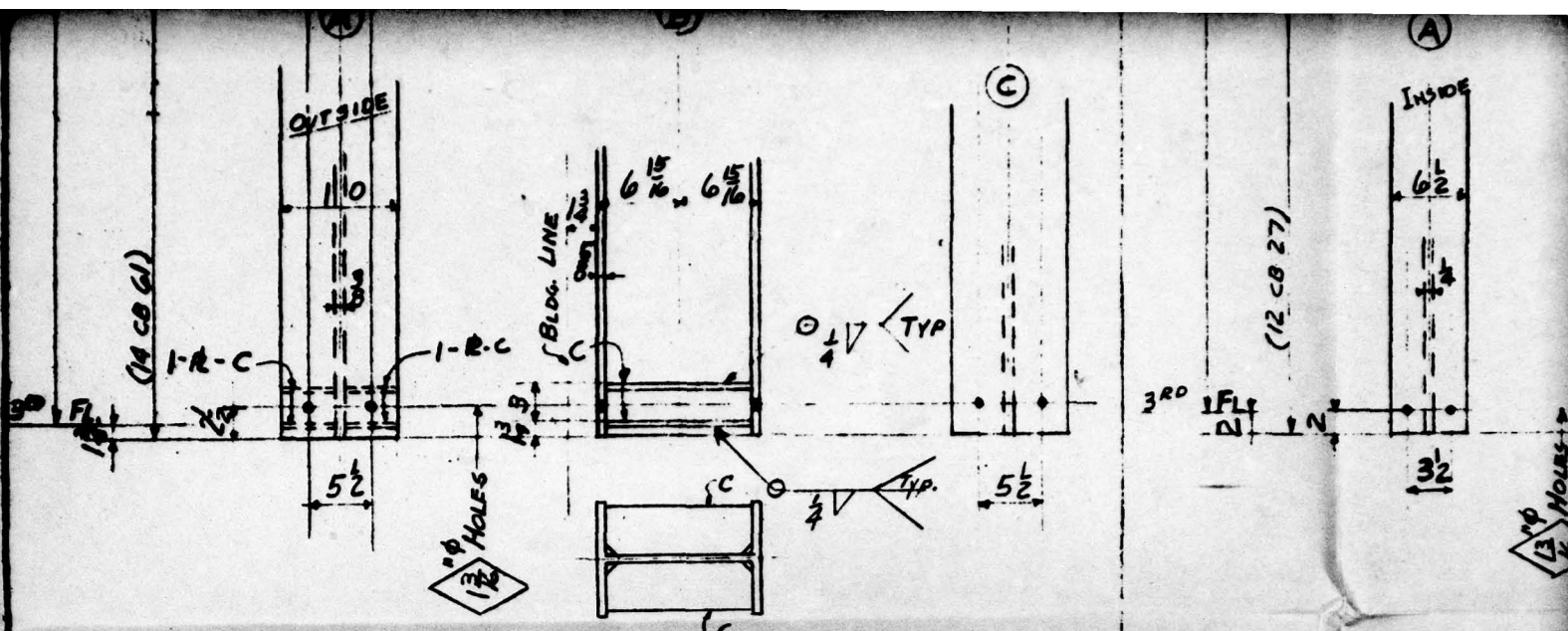
LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTS.	WEIGHT						

NO.	DATE	BY	REVISION
1			
HOLES	12 ^{NO} UNLESS NOTED		PAINT 1-SHOP COAT
RIVETS	NONE		TT-P-86 RED LEAD BASE
REP.			LINSEED OIL READY MIXED
DATE	DRAWN BY	CHECKED BY	IN CHARGE OF
5-3-50	SLANGEN	GALLAGHER	HOLBROOK

UNCLASSIFIED





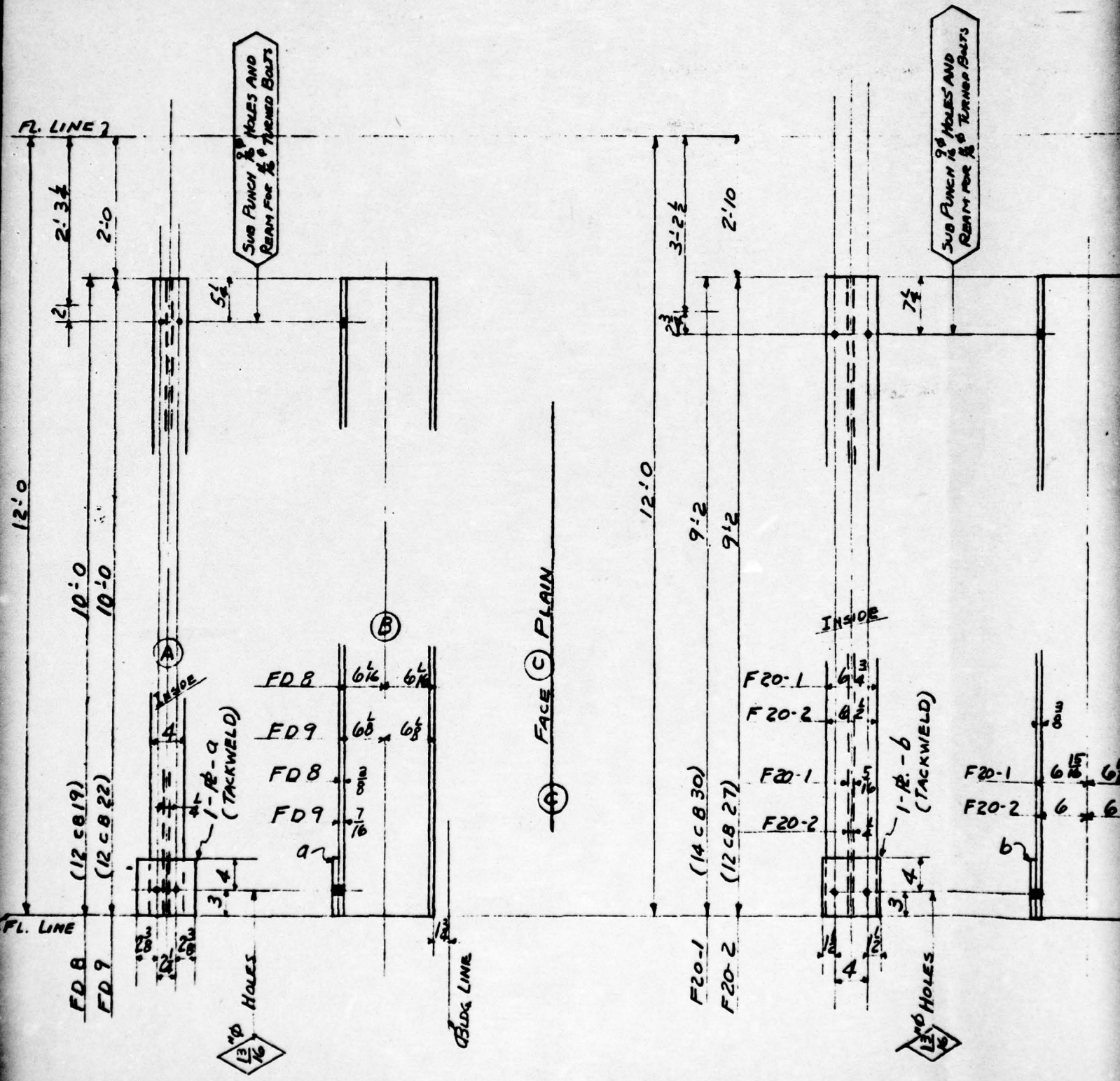


2 - POSTS FA15^R SHOWN } BLDG # 2
 2 - POSTS FA15^L OPP }
 4 POSTS FA16 } STRESS RELIEVE

4 - PO

LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTG.	WEIGHT	FILE			LINE	SHIP. PCS.	DETAIL PCS.
									1	2	3			
1	2		14 CB 61	10' 4 3/4	FA15 ^R	A7	SBS	ML 4/5	2			18	12	L 8
2	2		14 CB 61	10' 4 3/4	FA15 ^L		SBS	ML 4/6	2			19	4	L 8
3												20	32	STIFF
4	4		12 CB 27	10' 5 1/4	FD15		S	ML 4/15 ML 4/20	4			21	8	L 4
5												22	4	L 4
6	2		12 CB 72	10' 5 1/4	FD14		S	ML 4/15	2			23	4	R 9
7	2		24 CB 76	11' 5	FI-2		SBS	ML 3/11		1		24	8	STIFF
8												25		
9												26		
10	4		14 CB 61	10' 4 3/4	FA16		SBS	ML 4/5 ML 4/6	4			27	46	LBS
11												28	66	SHIP
12												29		
13												30		Post
14												31		To Be
15												32		
16												33		
17												34		

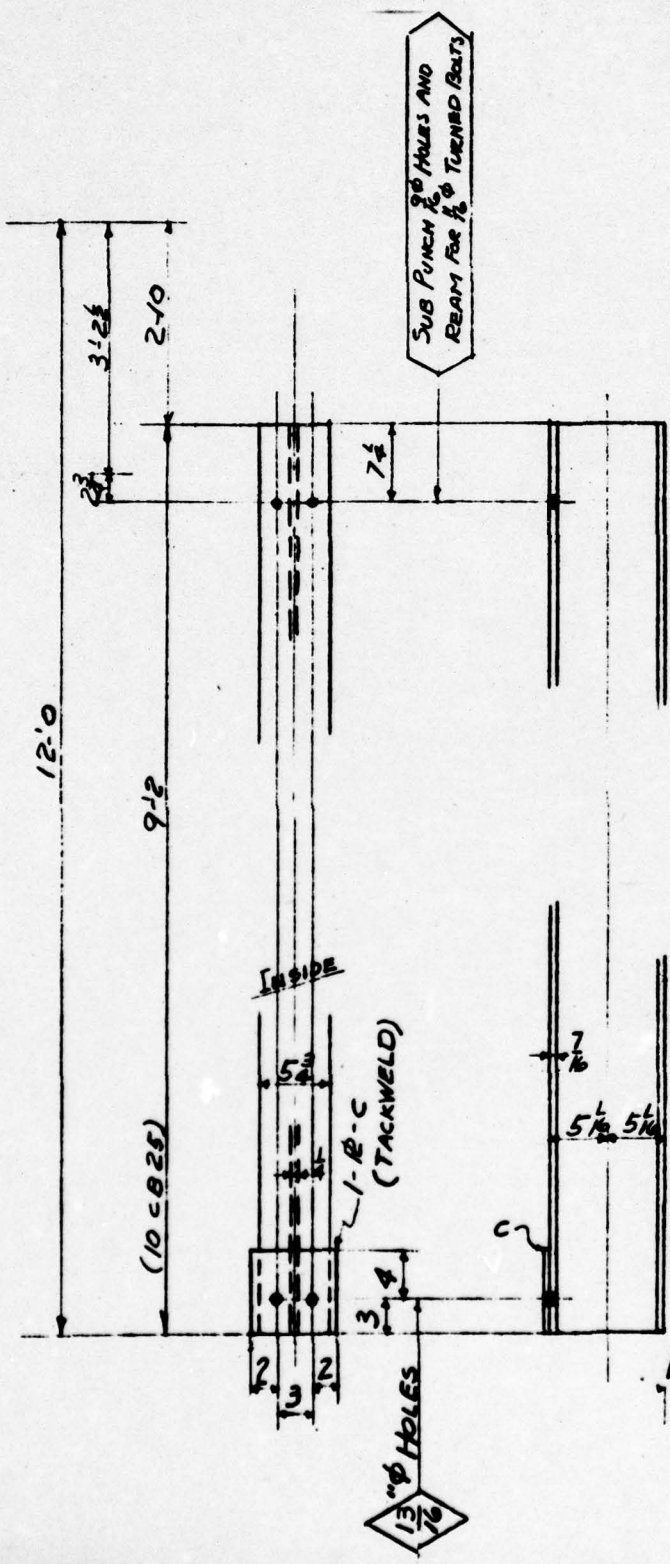
UNDERGROUND



2- POSTS FD8 }
 5- POSTS FD9 } BLDG #7

12- POSTS F20-1 }
 15- POSTS F20-2 }

FACE C PLAIN



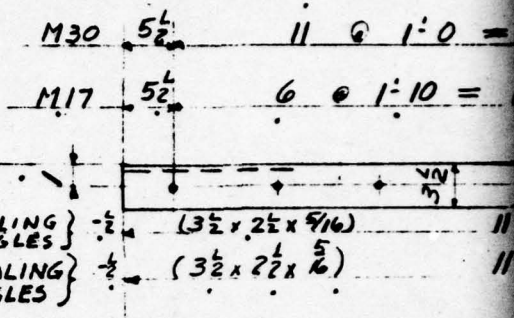
SUB PUNCH 1/2" HOLES AND REAM FOR 1/2" TURNED BOLTS

INSIDE

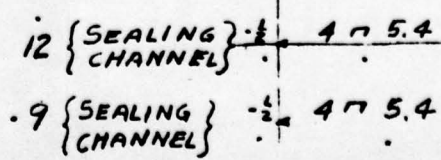
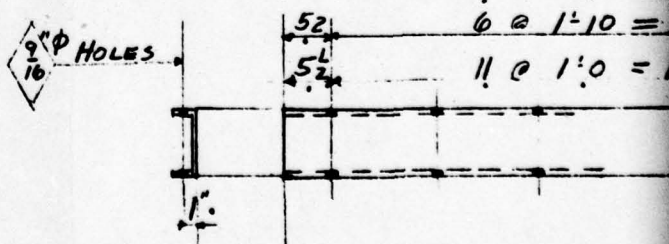
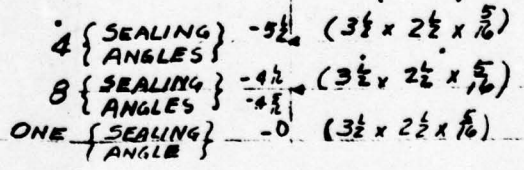
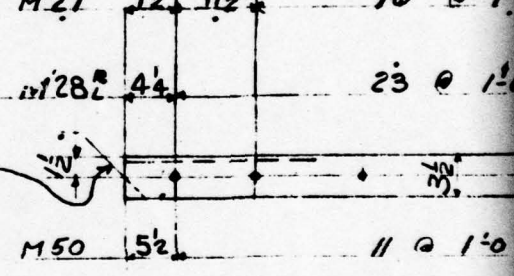
1-12-C (TACKWELD)

13" Ø HOLES

BLOG. LINE

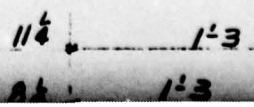


CUT 45° FOR M50

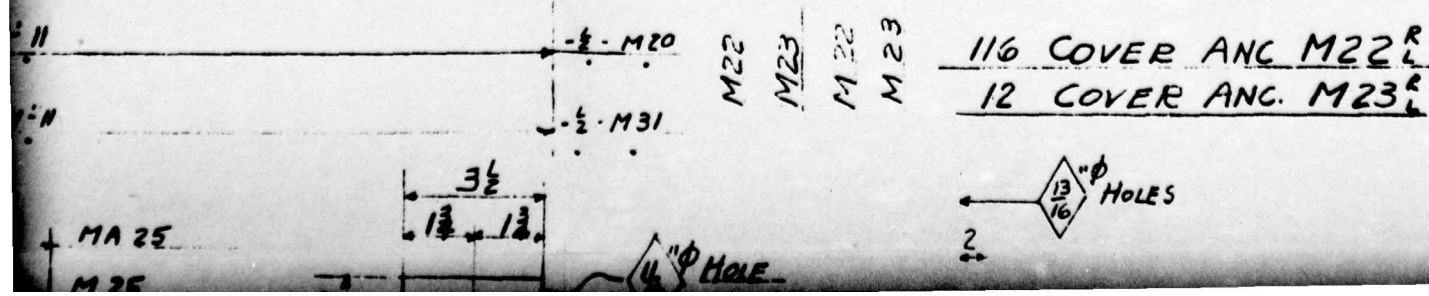
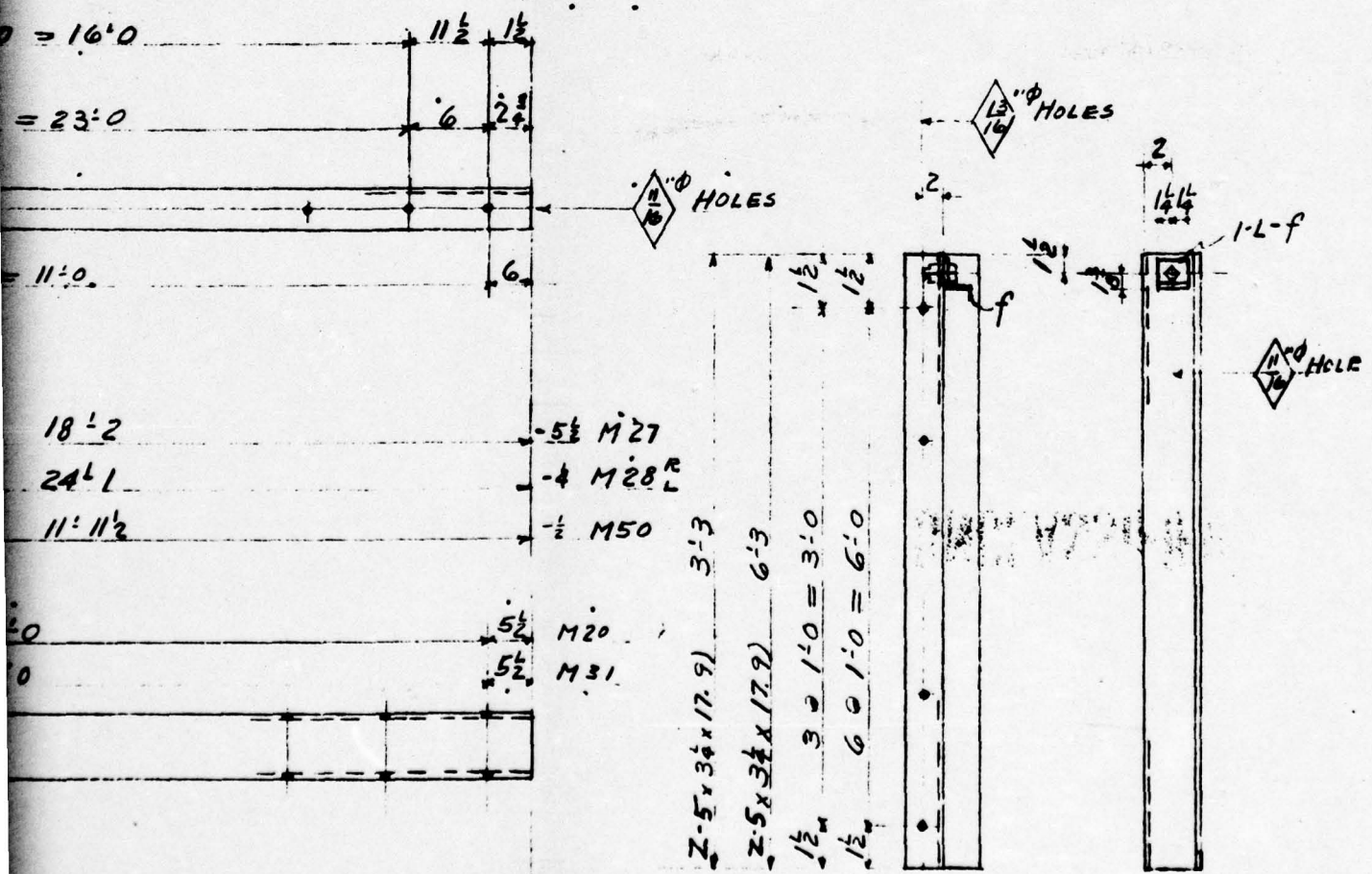
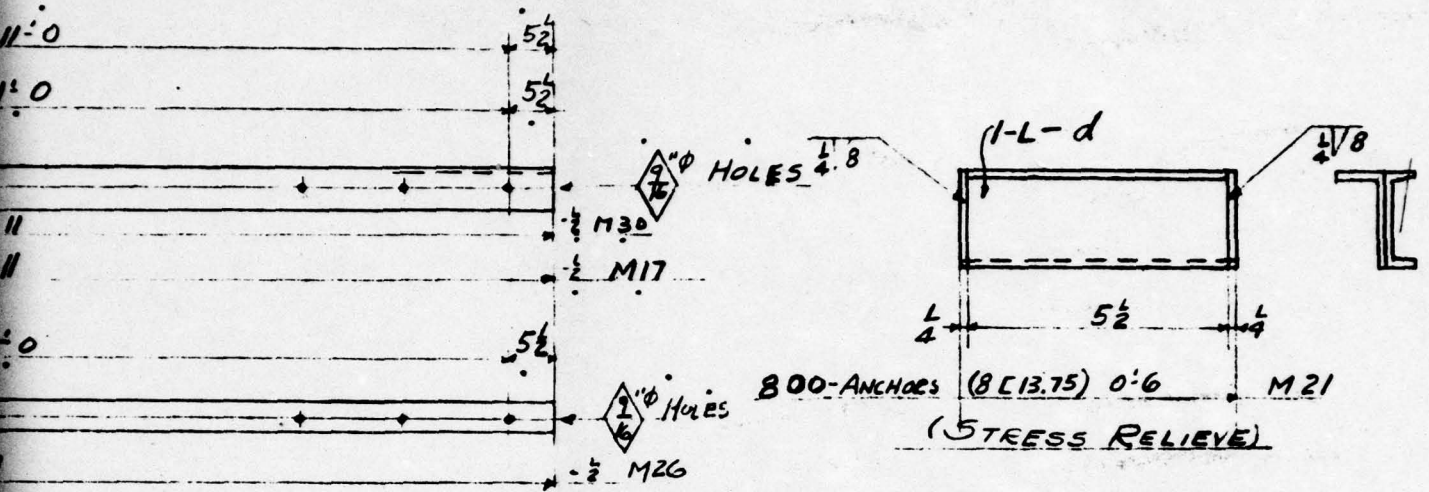


4-POSTS F20-3 BLOG. #7

BLOG. #7



3



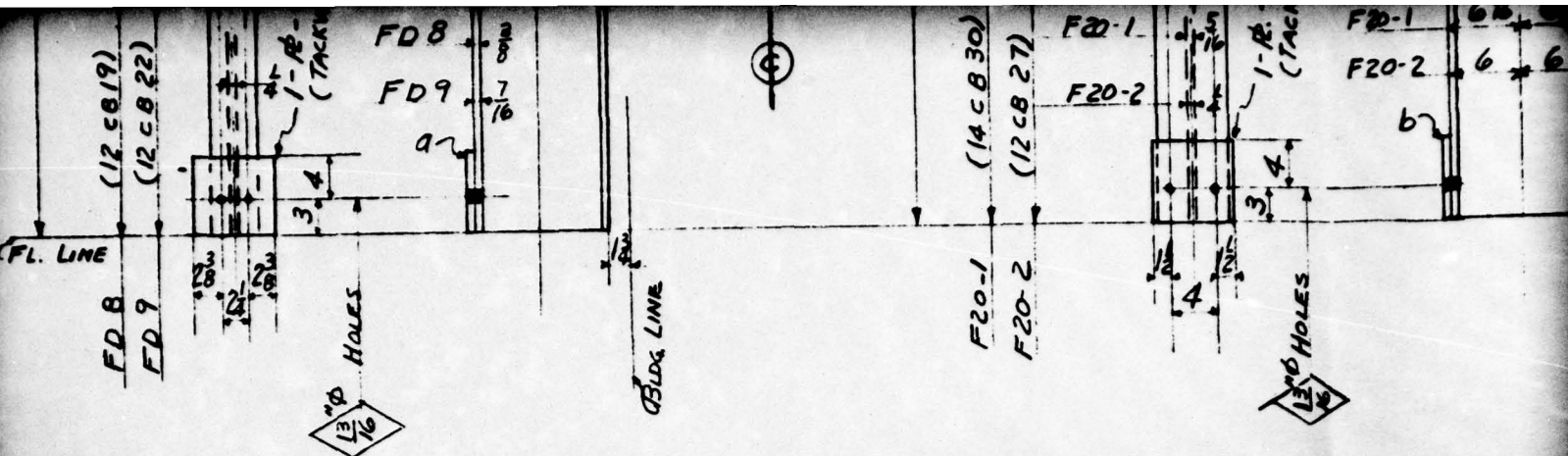
116 COVER ANC M22^R

12 COVER ANC. M23^R

MA 25

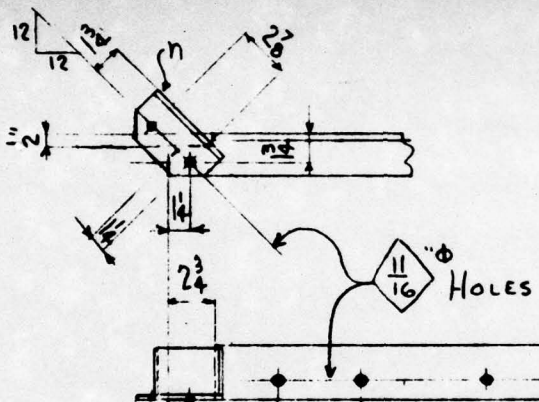
M 25

4" HOLES



2-POSTS FD8
5-POSTS FD9 } BLDG #7

12-POSTS F20-1
15-POSTS F20-2 }

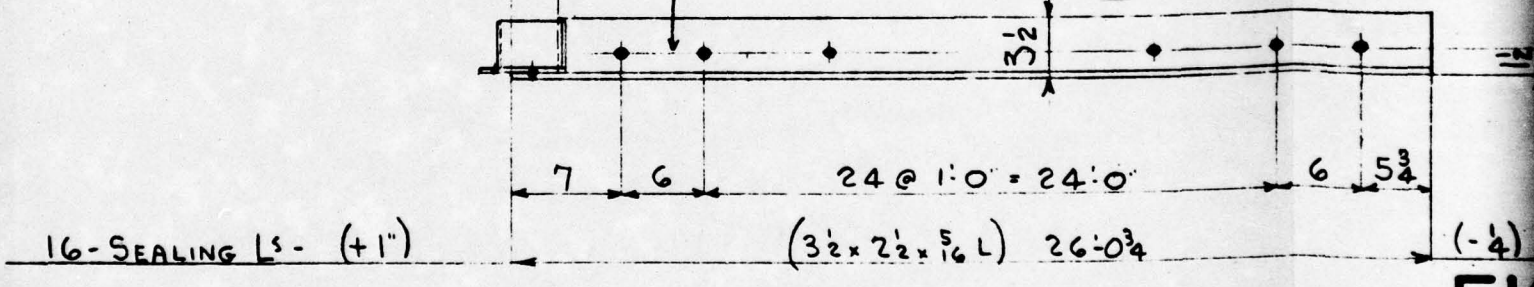


CUT M51 ON THIS LINE

M18
M51

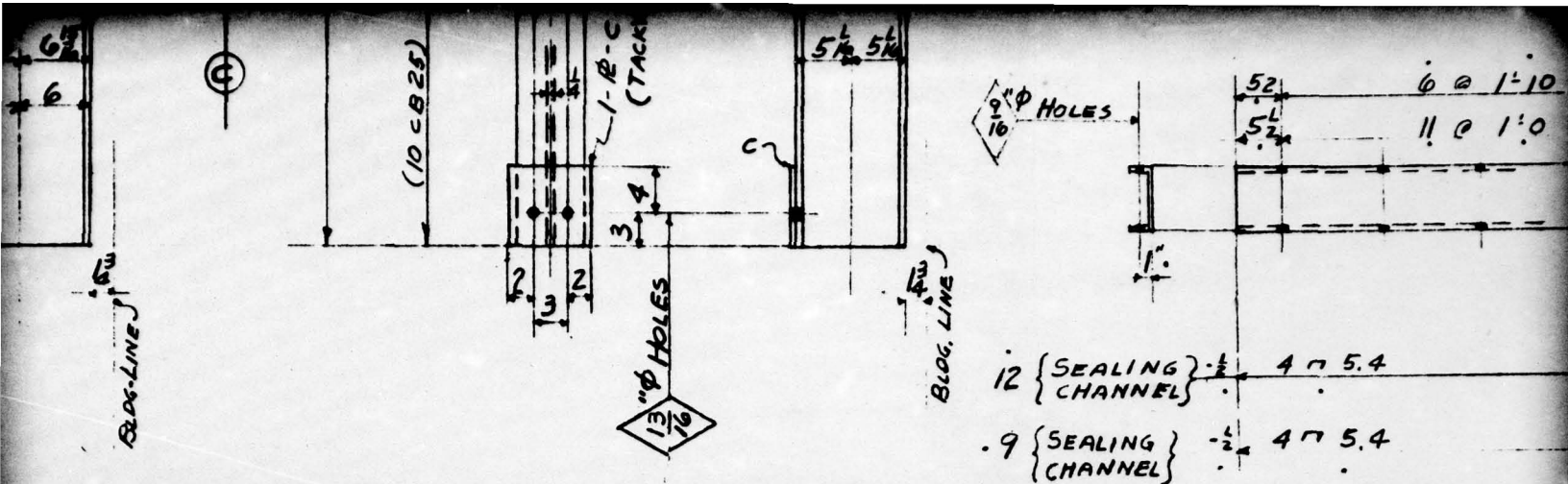
15- SEALING Ls (-)

ONE- SEALING L (-)



FI

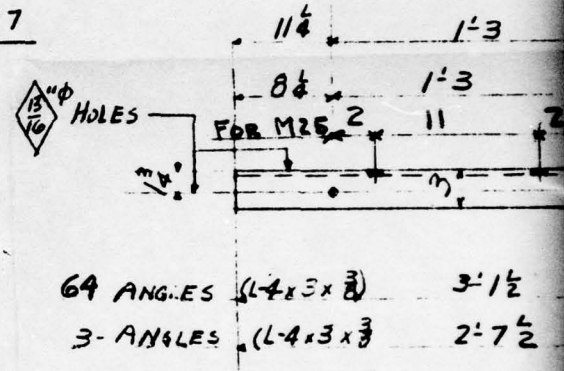
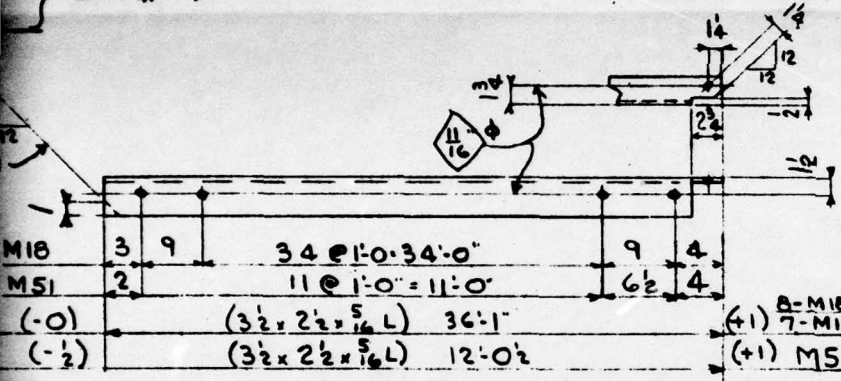
LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTS.	PILE			LINE	SHIP. PCS.	DETAIL PCS.	
								1	2	3				
1	2		12CB 19	10'0"	FD8	A7	5			2		18	7	R. 7x
2	5		12CB 22	10'0"	FD9	.				5		19	27	R. 7x
3												20	4	R. 7x
4												21	800	L 8x4
5	12		14 CB 30	9'2"	F20-1			ML 4/13		12		22	128	L 2 1/2 x 2
6	15		12 CB 27	9'2"	F20-2			ML 4/17		15		23	1	BAR 3x
7												24	1	BAR 3x
8	4		10 CB 25	9'2"	F20-3					4		25	11	BOLTS
9												26	16	Ls 3
10	12		L 3 1/2 x 2 1/2 x 5/16	11'11"	M17					12		27		
11	8		L 3 1/2 x 2 1/2 x 5/16	36'1"	M18	R				8		28		
12	16		L 3 1/2 x 2 1/2 x 5/16	26'0"	M19	R				16		29		
13	12		E 4-5.4	11'11"	M20					12		30		
14	800		8E 13.75	0'6"	M21		S. B.S.			62	62	676	31	
15	116		Z 5 x 3 1/4 x 17.9	3'3"	M22	R	S	ML 7-5		116		32	128	BOLTS
16	12		Z 5 x 3 1/4 x 17.9	6'3"	M23	R		ML 7/4		12		33	280	LB. SHO
17	8		R. 3 1/2 x 5/16	0'3 1/2"	M54		AT HEAVY BAR GUY			2	2	34		



12 { SEALING } - 1/2 4 @ 5.4
 CHANNEL
 .9 { SEALING } - 1/2 4 @ 5.4
 CHANNEL

BLDG. #7

4-POSTS F20-3 BLDG. #7



M40 4 1/2 23 @ 8 1/2 = 16'-3 1/2 4 1/2
 M43 7 7 @ 1'-3 1/2 = 9'-0 1/2 7

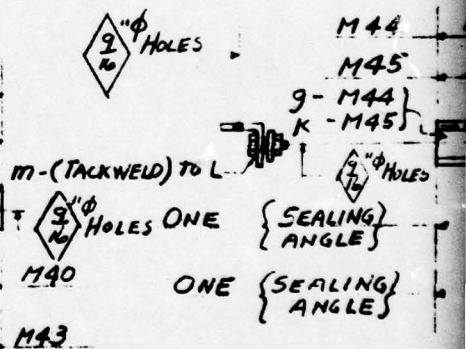


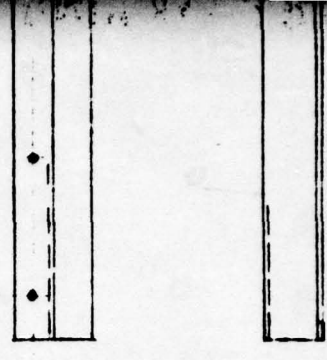
FIG. A2.67

ONE { SEALING } ANGLE (L 4 x 3 1/2 x 5/8) 17'-0 M40
 ONE { SEALING } ANGLE (L 4 x 3 1/2 x 5/8) 10'-2 1/2 M43

10 = 11:0
 0 = 11:0

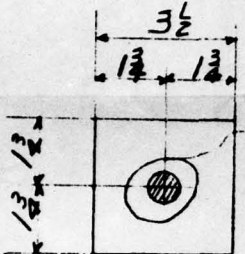
5 1/2 M20
 5 1/2 M31

M22 2-5 x 3 1/4 x 17.9 3
 M23 2-5 x 3 1/4 x 17.9 6
 M22 1 1/2 3 @ 1:0 = 3
 M23 1 1/2 6 @ 1:0 = 6

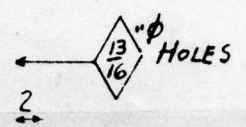


116 COVER ANC M22^R
 12 COVER ANC. M23^R

11:11 - 1/2 - M20
 11:11 - 1/2 - M31



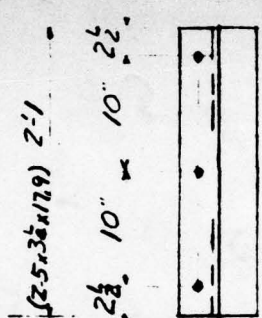
4 1/16" HOLE



11 1/4 MA 25
 8 1/2 M 25
 2" ga FOR M25

8- PLATES M 54
 GRIND EDGES SMOOTH

MA 25-BLDS-1-3-A-7
 M25 SHELTERS



11 4 @ 2:0 = 8:0
 8 5 @ 1:10 1/2 = 9:4 1/2
 Ga. O. S-L = 2"

6 - COVER ANC. M24

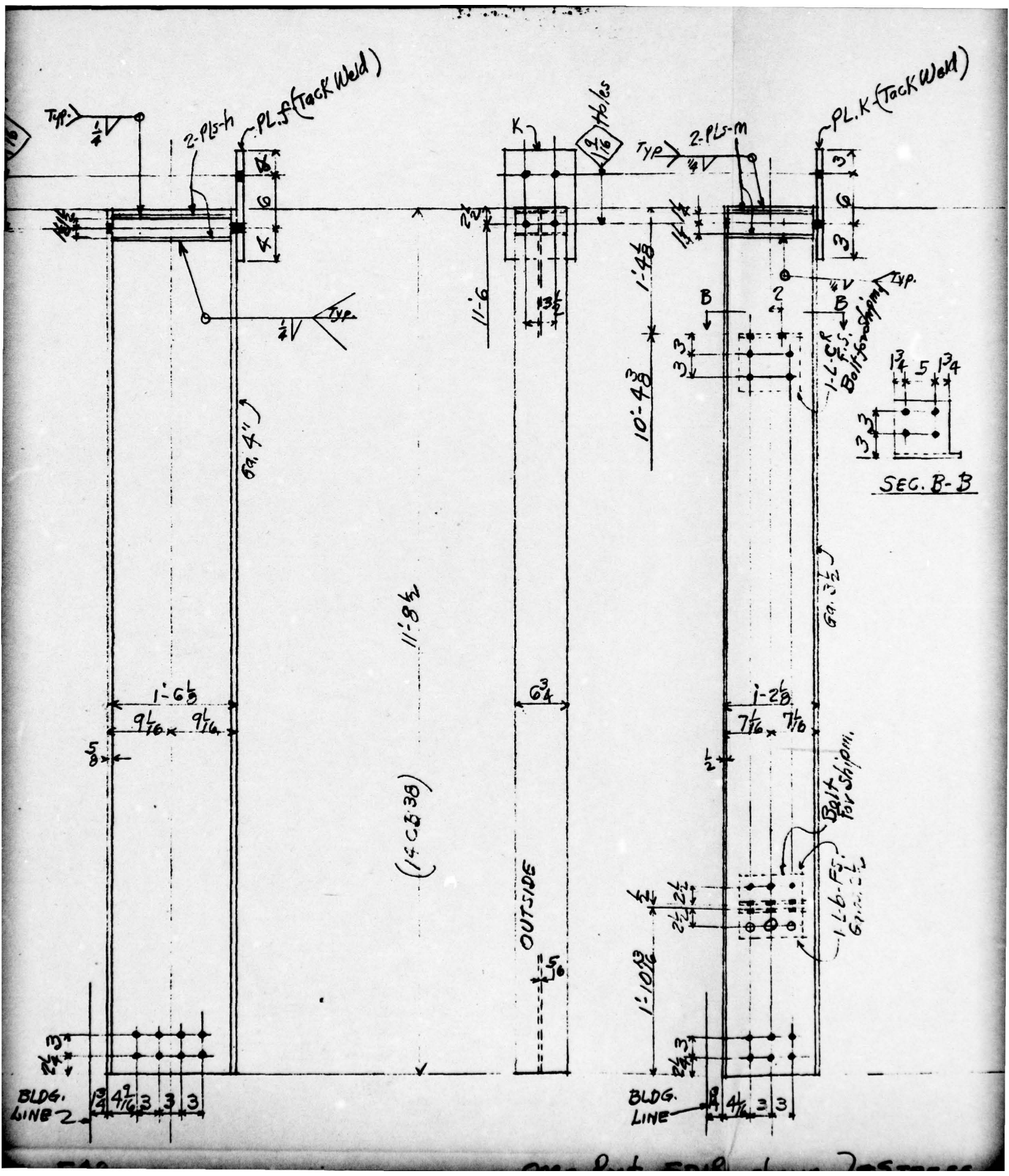
(L-3 1/2 x 3 1/2 x 5/16) 9:10 M44
 (L-3 1/2 x 3 1/2 x 5/16) 10:8 1/2 M45

UNCLASSIFIED



LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTS.	WIDTH	PILE		
					1	2	3
2:1	M24	A7	S	ML 7/16			6
3:1 1/2	MA 25						64
11:11	M26	A7 <i>AT Minch Bar Quality</i>					3
18:2	M27	A7			2	2	
20:1	M28				4	4	
2:7 1/2	M25						3
17:0	M40						1
10:2 1/2	M43						1
9:10	M44						1
10:8 1/2	M45						1
11:11	M30						6
11:11	M31						9
11:11	M50						1
12:0 1/2	M51	INSPECTION BY					1
36:1	M52	HOLMES & NARVER					7
3 stress							
10 dia.							

1				
NO.	DATE	BY	REVISION	
HOLES AS NOTED		PAINT 1- SHOP COAT		
RIVETS NONE		TTP-96 RED LEAD BASE		
REF.		LINSEED OIL READY MIXED		
DATE	DRAWN BY	CHECKED BY	IN CHARGE OF	
MAY 11-1950	SLANGEN	GALLAGHER	HOLBROOK	
CONSOLIDATED WESTERN STEEL CORPORATION LOS ANGELES, CALIFORNIA SUBSIDIARY OF UNITED STATES STEEL CORPORATION				
HOLMES & NARVER BLDG'S. 1-2-3-4-5-6-7 & ACCESS WAYS			ORDER NO. 7 48357	
POSTS, SEALING ANGLES & CHANNELS COVER ANCHORS & ANGLES.			DRAWING NO. 12	



2-PL5-h
 PL.F (Tack Weld)

2-PL5-m
 PL.K (Tack Weld)

11'-8 1/2
 (14 C & B 38)

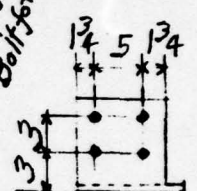
OUTSIDE

SEC. B-B

Bolt for Shipm.
 1-L-6-F5
 6mm. 2.2

BLDG. LINE 2
 3 3 3 3 3
 4 9/16 3 3 3

BLDG. LINE
 3 3 3 3 3
 4 9/16 3 3 3



1'-6 5/8
 9 1/16 x 9 1/16
 5/8

1'-2 5/8
 7 1/16 x 7 1/16
 1/2

1'-10 1/2
 2 1/2 2 1/2
 3/4 3

10'-4 8/16
 1'-4 8/16
 11'-6

69.3 1/2

69.4

2 1/2
 13 5/8

6 3/4

9/16 Holes

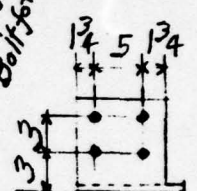
1-L-6-F5
 Bolt for Shipm.
 Typ.

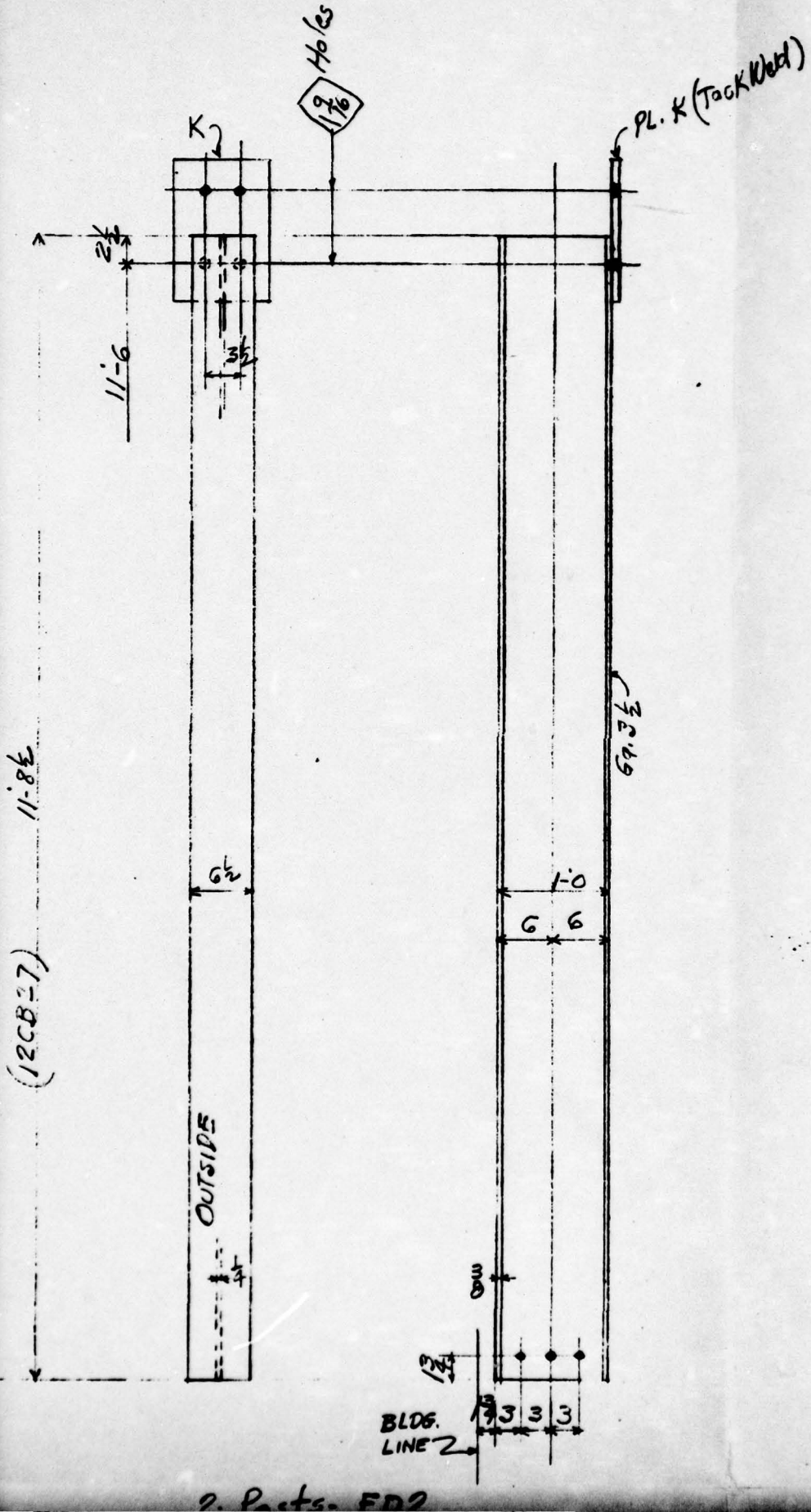
Typ. 1/2

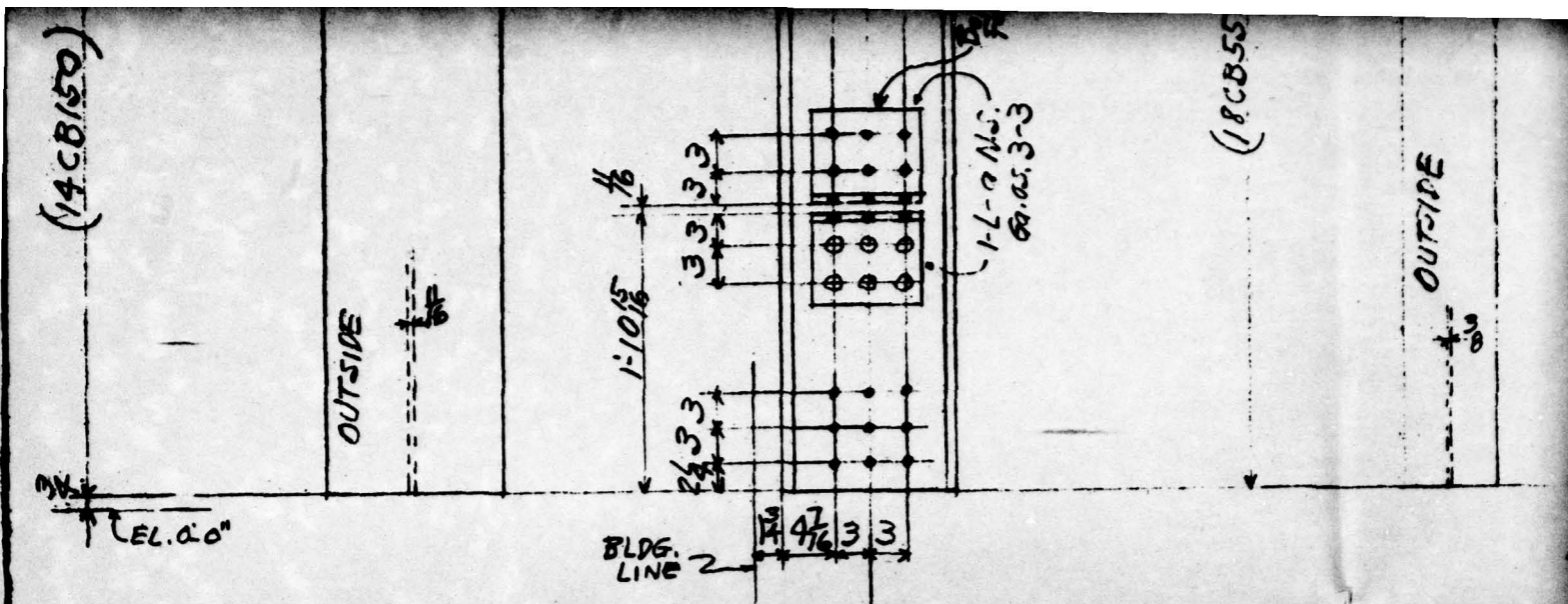
Typ. 1/4

Typ. 1/2

Typ.

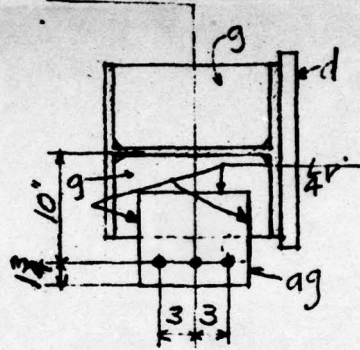






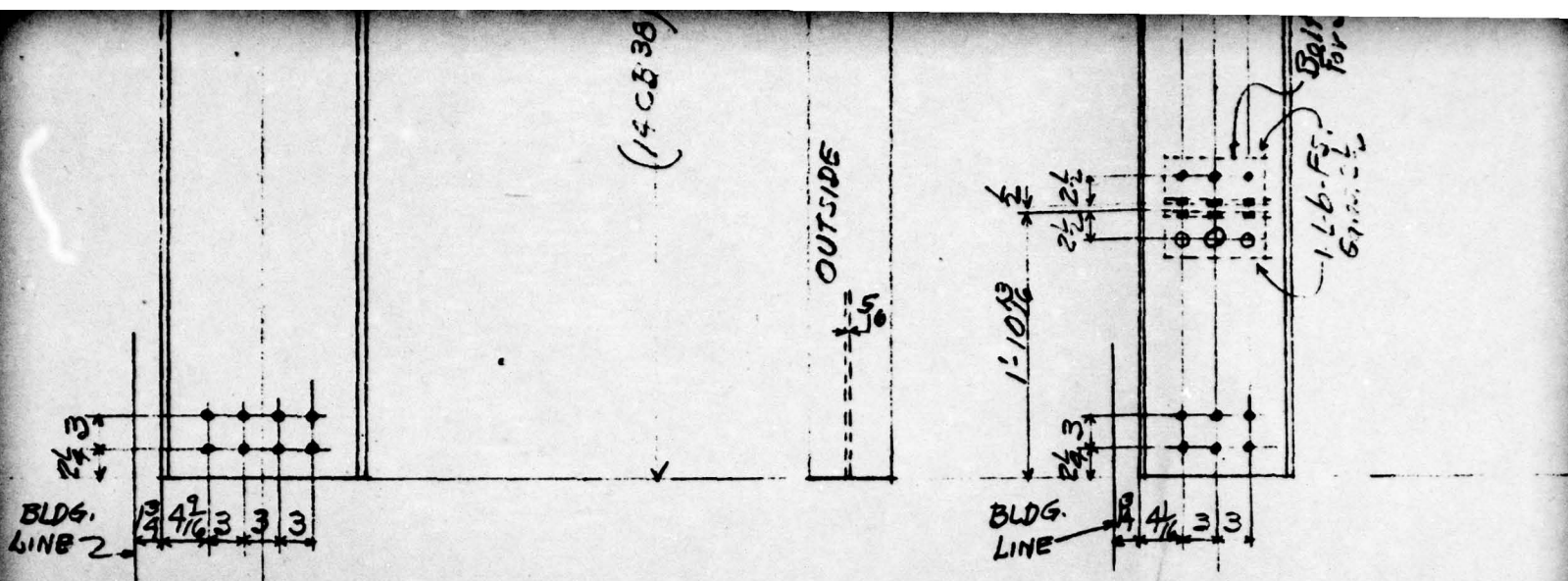
STRESS } (One Post - FAIR - shown
 RELIEVE } One - " FAIL - Opp.

4- Post
 STRESS



Plan View-A-A

LINE	SHIP. PCB.	DETAIL PCB.	DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPT.	PILE				LINE	SHIP. PCB.	DETAIL PCB.	
								1	2						
1	1		14CB150	11'-8 1/2"	FAIR	A1	SBS	ML3-30	1				18		
2	1		14CB150	11'-8 1/2"	FAIL		SBS	ML3-32	1				19		
3		8	L 8x8x1/2	0'-9 1/2"	a		S						20		
4	4		18CB55	11'-8 1/2"	FA2		SBS		4				21		
5		2	PL. 14x1 1/2	1'-4"	d		S						22	2	P
6		4	PL. 10x1	1'-2"	f								23		
7		8	PL. 7x5/8	1'-0 1/2"	g								24	40	L
8		16	Bar 35x1 1/2	1'-4 3/4"	h								25	16	SM
9			14CB38	11'-8 1/2"	FDIR		SBS	ML4-11	1				26		
10			14CB38	11'-8 1/2"	FDIL		SBS	ML4-11	1				27	Posts	
11		4	L 4x4x3/8	0'-9 1/2"	b								28	To Be	
12		2	L 8x8x1/2	0'-9 1/2"	CKL								29		
13		4	PL. 10x1	1'-0"	K								30		
14		1	Bar 35x1 1/2	1'-1"	M								31		



(14 CB 38)

OUTSIDE

Ball for
1-Lb. F.F.
611111

S- FAZ
RELIEVE

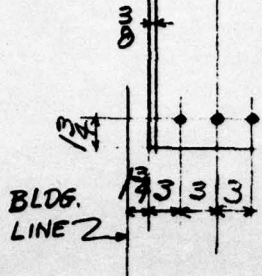
One- Post- FDIR - shown } ← STRESS
One- " FDL - Opp. } RELIEVE

FIG. A2.68

DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPT.	PIPE	LINE	QTY. PCS.	DETAIL PCS.	DESCRIPTION
					1	2			

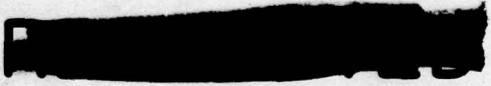
(12CB)

OUTSIDE



2 Posts - FD2

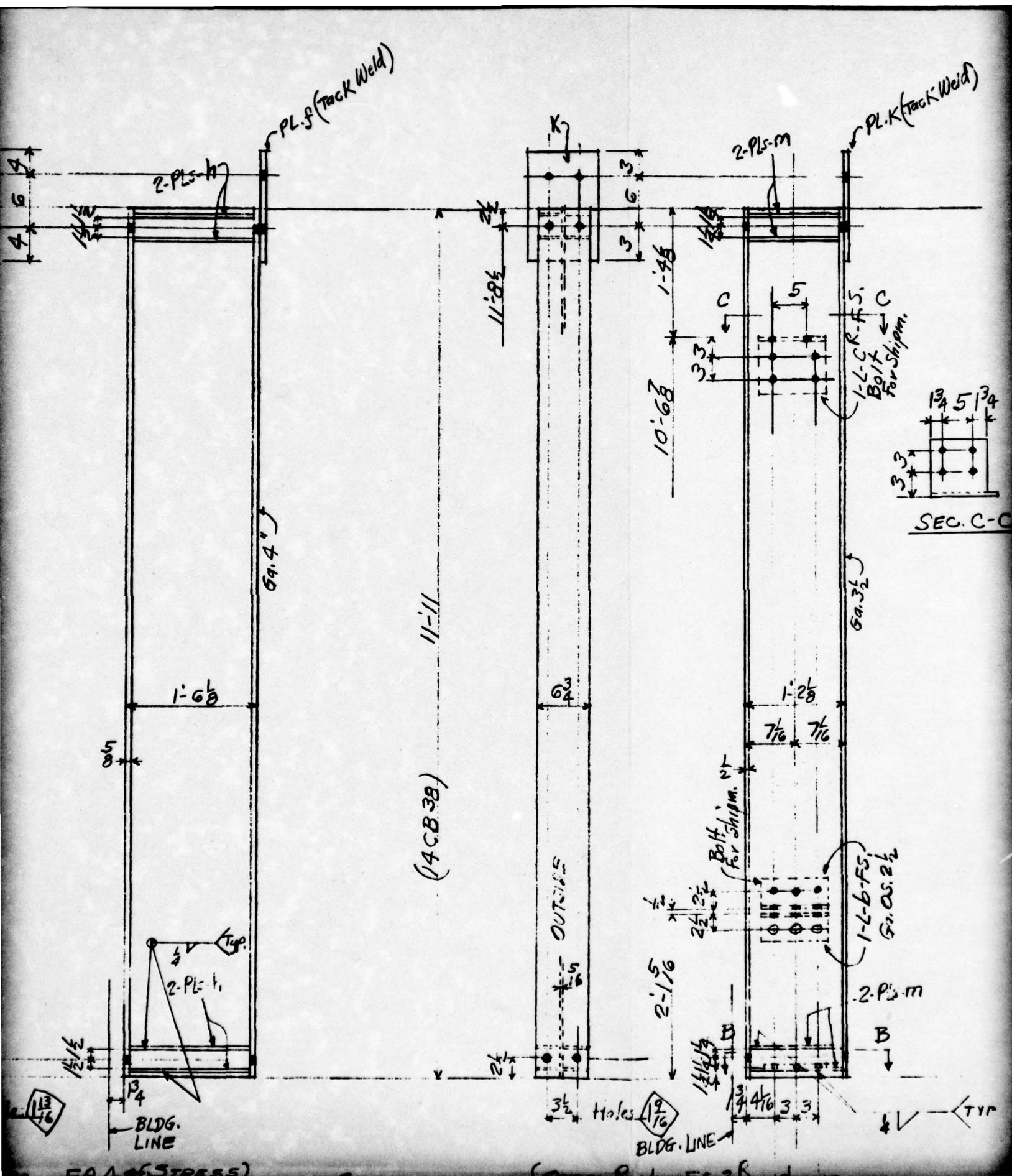
UNCLASSIFIED



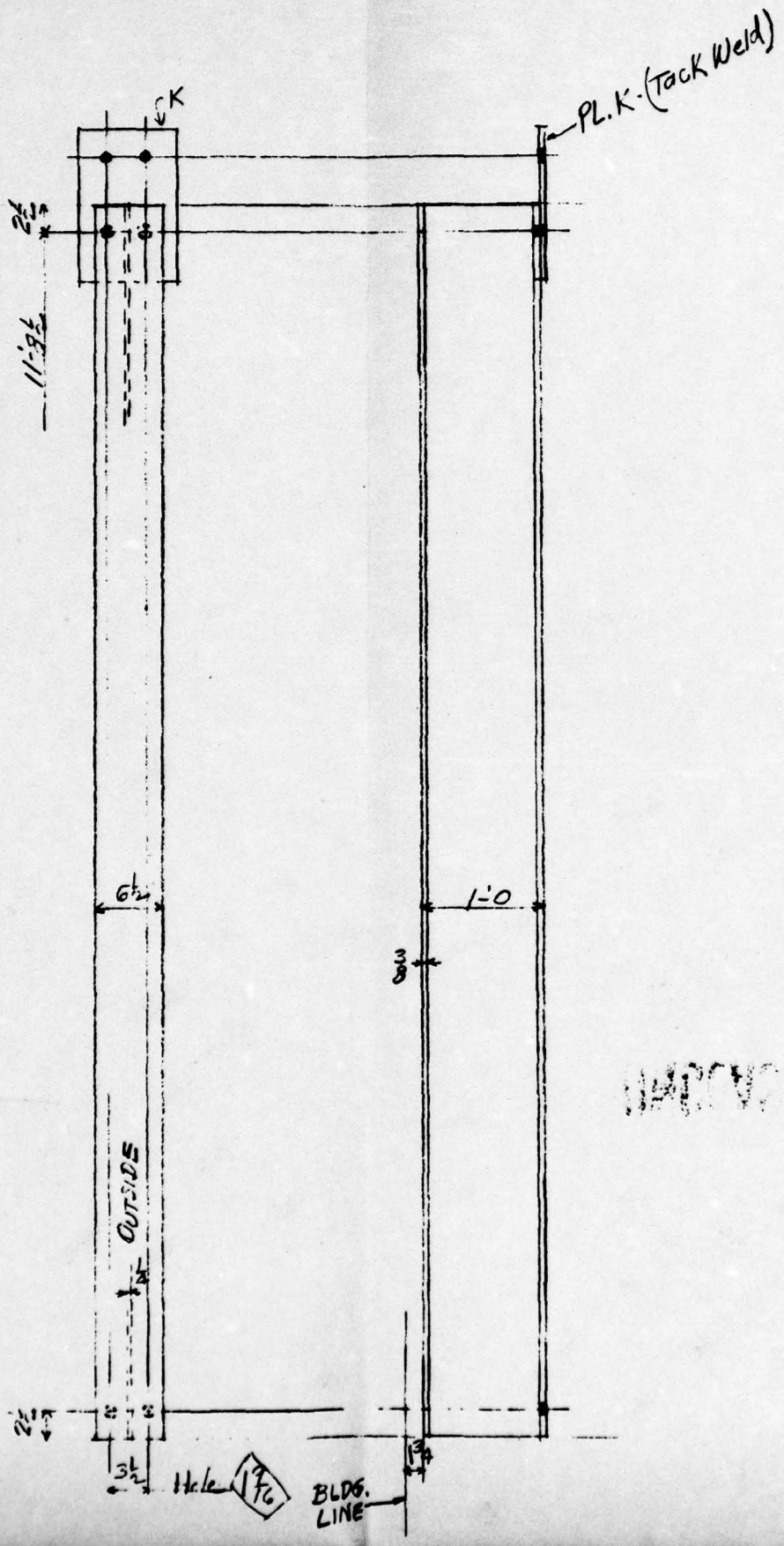
LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTL.	WEIGHT

1				
NO.	DATE	BY	REVISION	
HOLES	1/16" Unless Noted		PAINT 1 - Shop Coat	
RIVETS	1" Q		TTPB6 Red Lead Base	
REF.			Linseed Oil - Body Coat	
DATE	DRAWN BY	CHECKED BY	BY CHARGE OF	
5-3-50	Lambert	GALLAGHER	Holbrook	

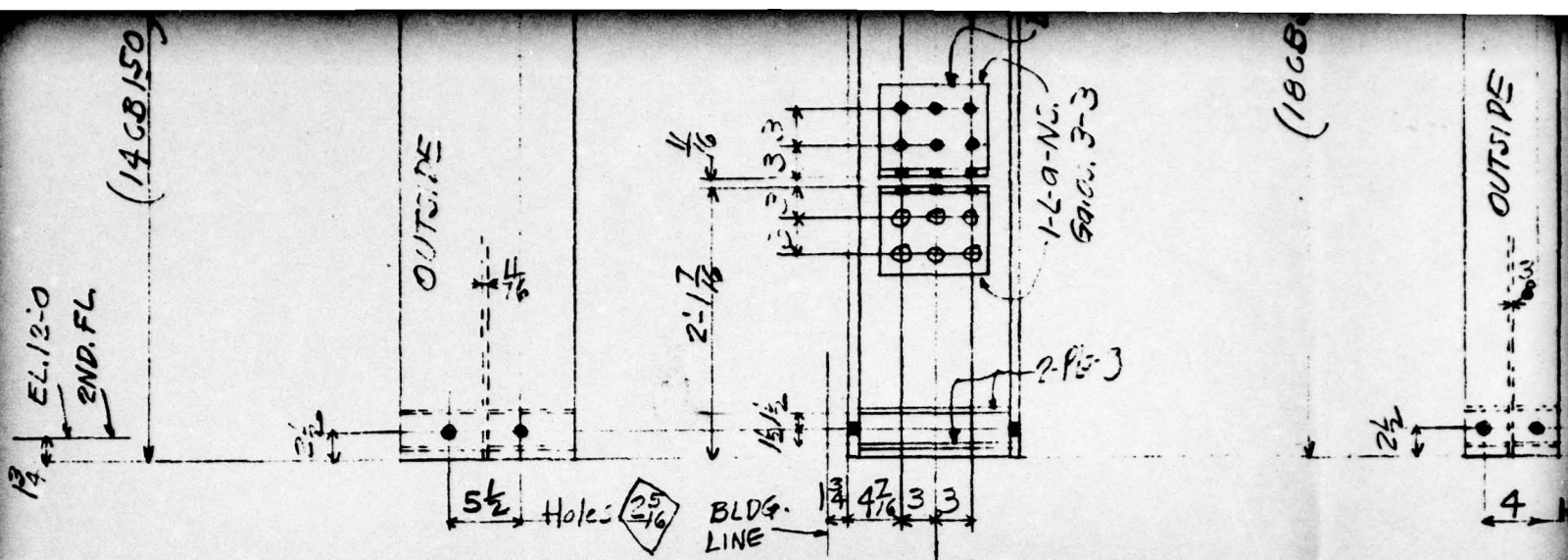
CONSOLIDATED WESTERN STEEL CORPORATION
 LOS ANGELES, CALIFORNIA
 SUBSIDIARY OF UNITED STATES STEEL CORPORATION



(12C827) 11-11

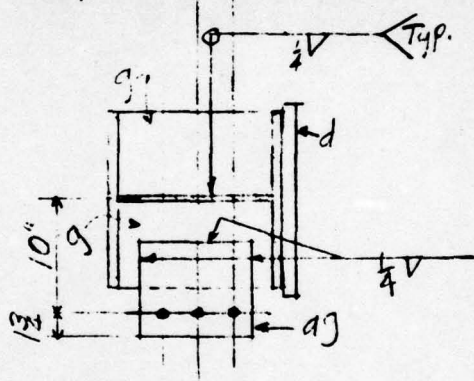


UNRECORDED



STRESS RELIEVE

{ One Post. FA3R - shown
One - FA3L - Opp.

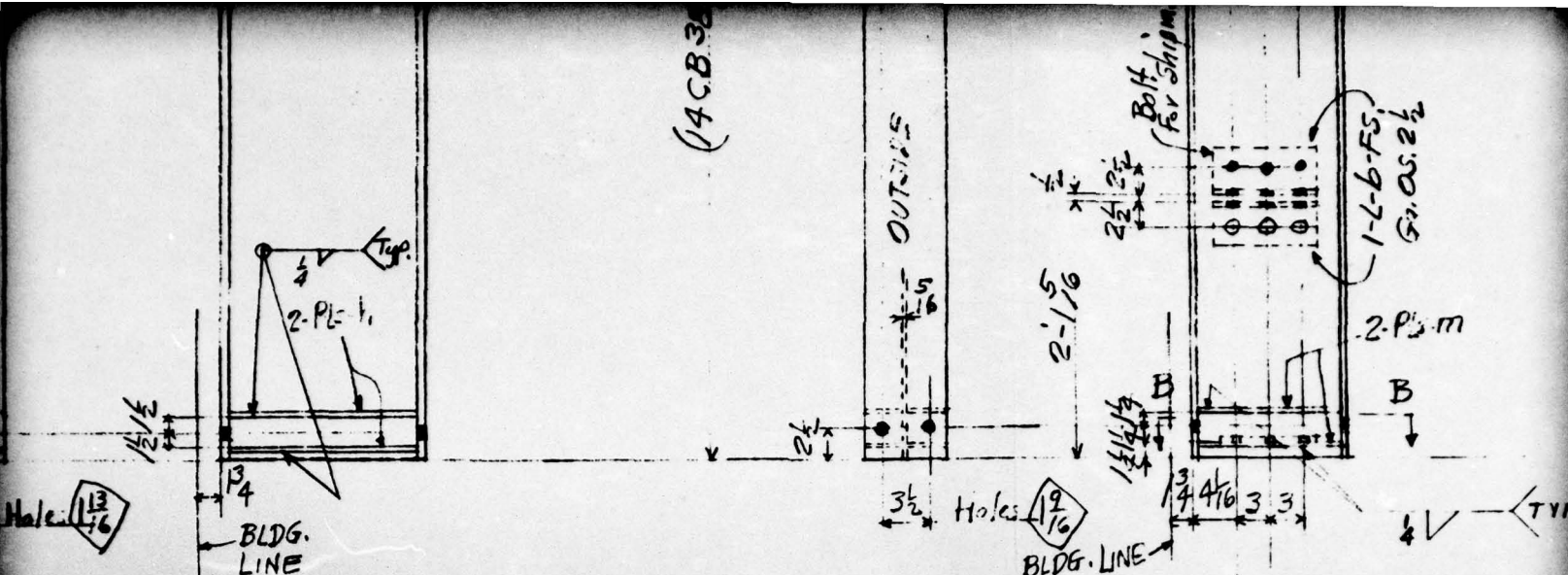


Plan View - A-A

LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTS.	WEIGHT	PILE		LINE	SHIP. PCS.	DETAIL PCS.
									1	2			
1	1		14CB150	11'-11"	FA3R	A7	SBS	ML3-30	1		18	2	12CB
2	1		14CB150	11'-11"	FA3L		SBS	ML3-30	1		19		
3		8	L 3x3x1/2	0'-7"	g		S				20		
4		2	PL. 14x1/2	1'-4"	d						21		
5		16	PL. 7x1/2	1'-0 1/2"	g						22		
6		2	PL. 8x3/8	0'-9 1/2"	ag						23		
7											24		
8	4		13CB55	11'-11"	FA4		SBS	ML3-17-20	4		25		
9		4	PL. 10x1	1'-"	f		S				26		75 Lbs
10		32	Bar 3 1/2 x 1/2	1'-4 3/4"	h	A7 Mech Bar Quality	S				27		16 SHOP
11	1		14CB39	11'-11"	FD3R	A7	SBS	ML4-11	1		28		
12	1		14CB39	11'-11"	FD3L		SBS	ML4-11	1		29		Posts
13		4	PL. 10x1	1'-0"	K		S				30		FD3R & A7
14		4	L 4x4x3/8	0'-11 1/2"	b						31		
15		2	L 8x8x1/2	0'-9 1/2"	CR						32		
16		16	Bar 3 1/2 x 1/2	1'-1"	m	A7 Mech Bar Quality					33		
17		2	PL. 7x3/4	0'-1 1/2"	g(iii)	A7					34		

4

(ACB.32)



Posts- FA 4 (STRESS RELIEVE)

STRESS RELIEVE → One - Post - F13R - shown
 One - " - FD3L - off.

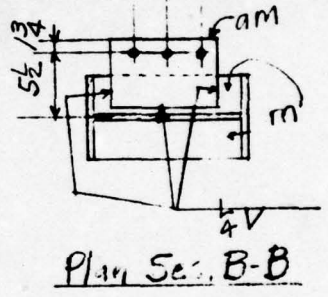


FIG. A2.69

DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTG.	WEIGHT	PILE					LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LENGTH PATTERN
						1	2								
B27	11'-11"	FD4	A7	S	ML4-21	2					35				
											36				
											37				
											38				
											39				
											40				
											41				
											42				
Weld Rod	E7010-11 or 20			S							43				
RIVETS	1"φ		A701								44				
											45				
Marked	FA3R, FA3L, FA4										46				
	FD3L To Be STRESS RELIEVED										47				
	After Welding.										48				
											49				
											50				
											51				

EL. 34'-3 7/8

Roof + 36'-0"

1'-0 7/8

10'-5 7/8

(14CB150)

EL. 24'-0"

3RD. FL.

2 1/2

OUTSIDE

1'-3 1/2

1/8

5 1/2

25 Holes

1/8

2'-1 7/8

1 1/2

13 7/8

4 7/8

3 3/8

Bolt For Shp.m.

1/8

3 3/8

5 5/8

3 3/8

3 1/8

2-L-6-abR
Ga. 3-3-05L

1'-2 7/8

7 7/16

7 7/16

1-L-6-abR
Ga. 3-3-05L

2-FL-9 TYP.

2-FL-9 TYP.

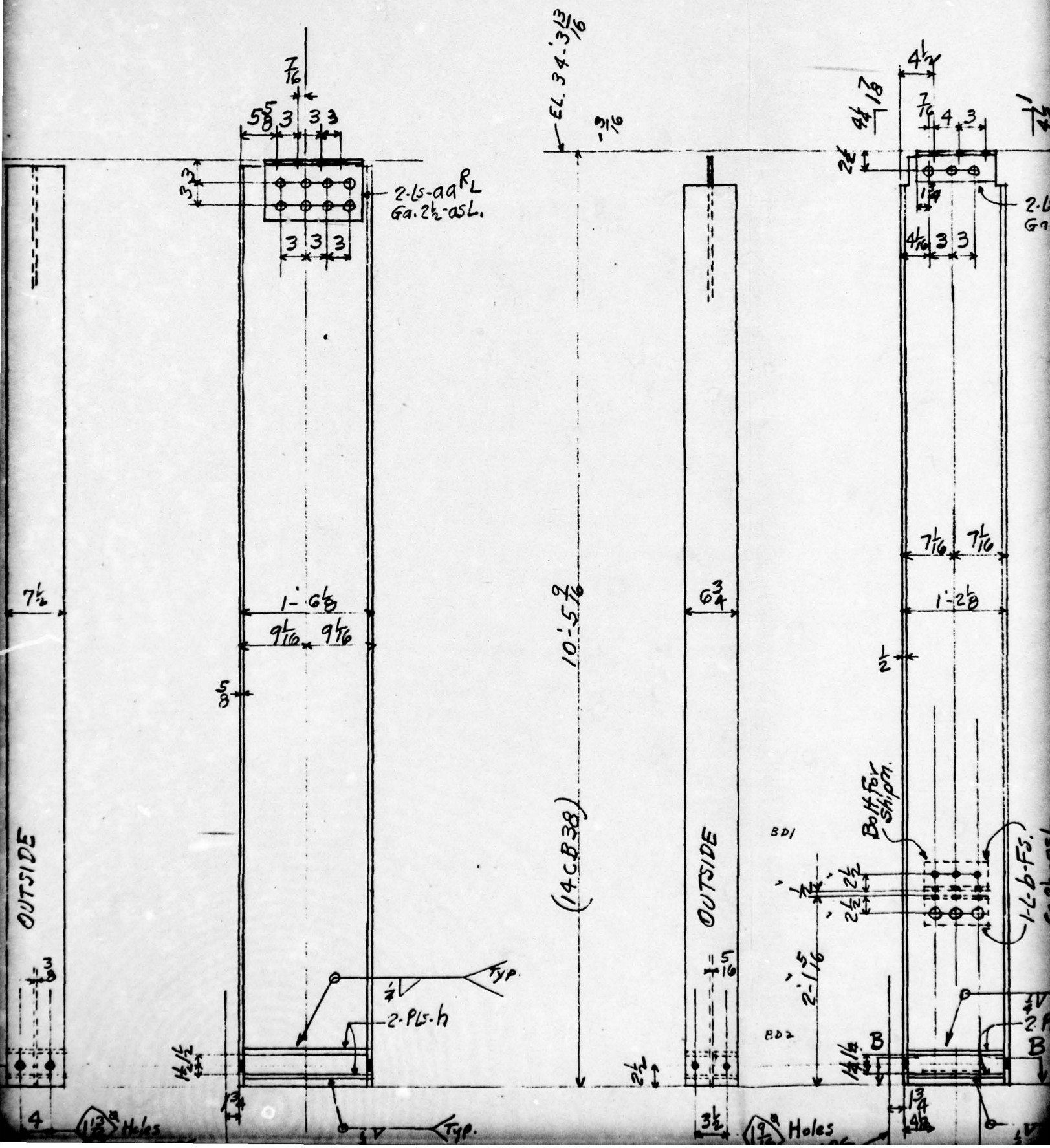
10'-5 7/8

(18CB55)

2 1/2

1.

2



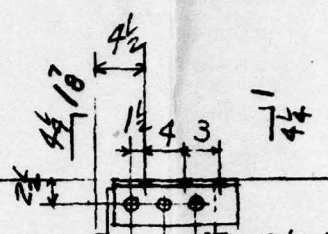
5-p.R
2 1/2-OSL.

10'-5 9/16

(2CB27)

6 1/2

OUTSIDE



2-15-p.R
Ga. 2 1/2-OSL.

3 3 3

6 6

1-0

3/8

60.24-OSL.

TYP.

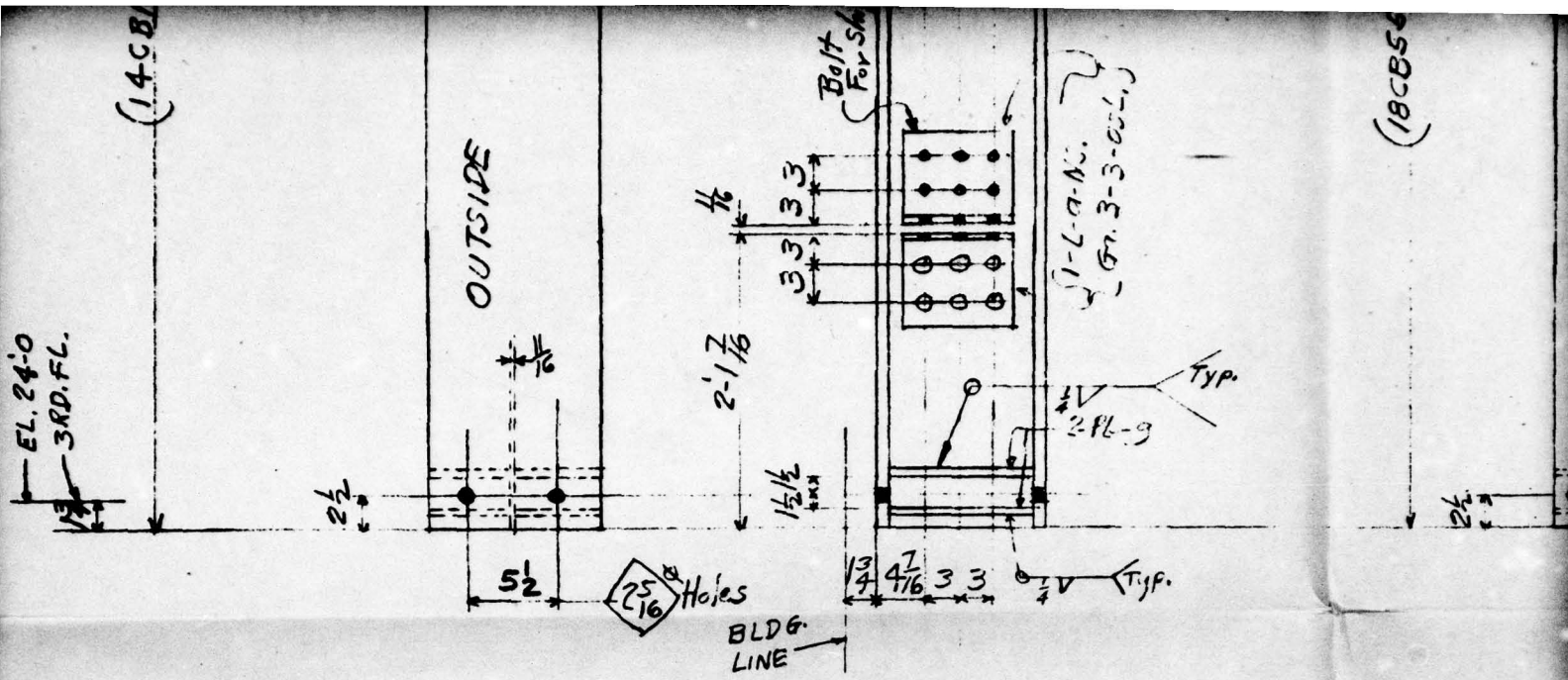
1/5-m.

2 1/2

3 1/2

19 Holes 3LDS.

1401 122111



2. Posts-FA5
(STRESS RELIEVE)

4

LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTL.	WEIGHT	PILE					LINE	SHIP. PCS.	DETAIL PCS.
									1	2						
1	2		14CB150	10'-4 ³ / ₄	FA5	A7	SBS	ML3:32		2					18	90 Lbs
2		8	PL 7x1/2	1'-0 ¹ / ₂	g		S								19	36 SHOP
3		4	L 8x8x1/2	0'-9 ¹ / ₂	g										20	
4		8	L 8x4x1/2	1'-1	99RL										21	
5	4		18CB55	10'-4 ³ / ₄	FA6	✓	SBS	ML3:17-20	4						22	Post

1-L-b-F.S.
60.2 1/2 - 05L.

(2CB27)

140110211

TYP.
2 PL5-M.
B

OUTSIDE

TYP.

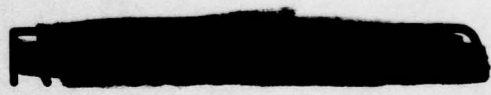
3 1/2
9/16 Holes

BLDG.
LINE

2- Posts - FDG

B-B

UNCLASSIFIED

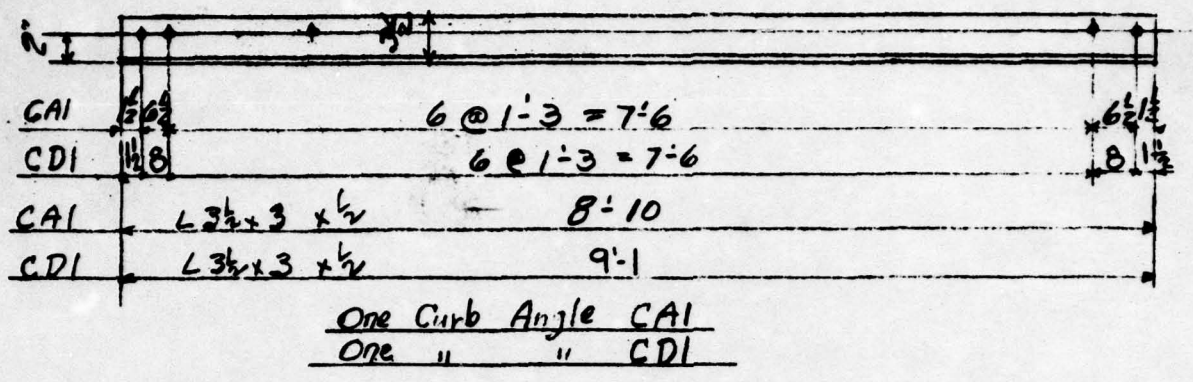


LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPT.	WEIGHT

1			
NO.	DATE	BY	REVISION
HOLES	1 1/16" Unless Noted		PAINT One Shop Coat
RIVETS	1/8"		TTPB6 Red Lead Base
REF.			Linseed Oil - Ruddy Mix
DATE	DRAWN BY	CHECKED BY	IN CHARGE OF
5/9/50	Lambert	GALLAGHER	Holbrook

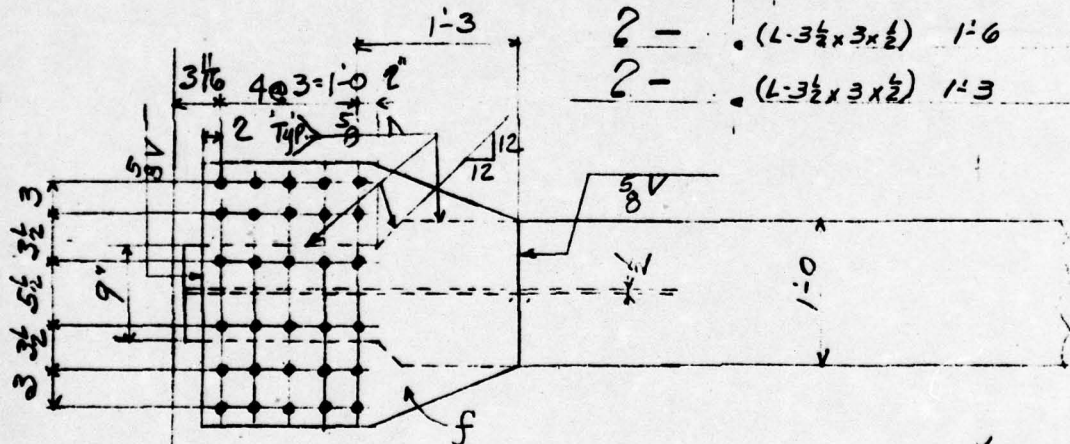
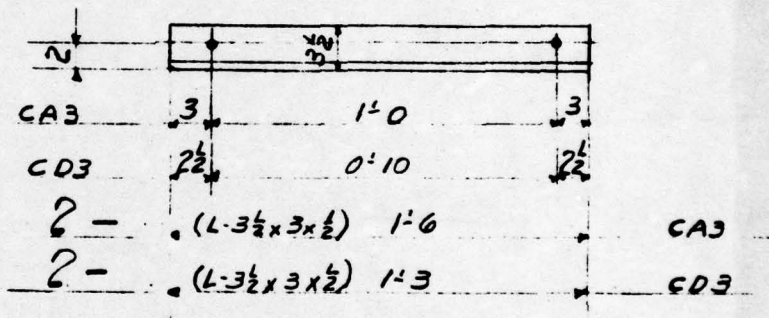
UNCLASSIFIED

137

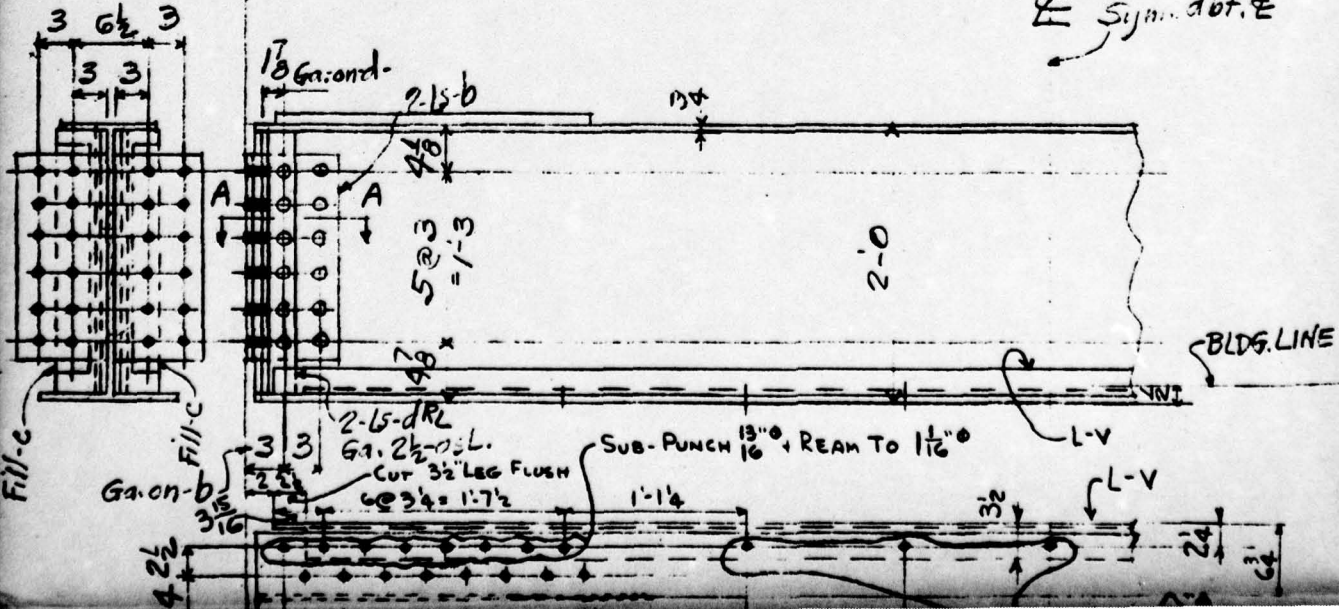


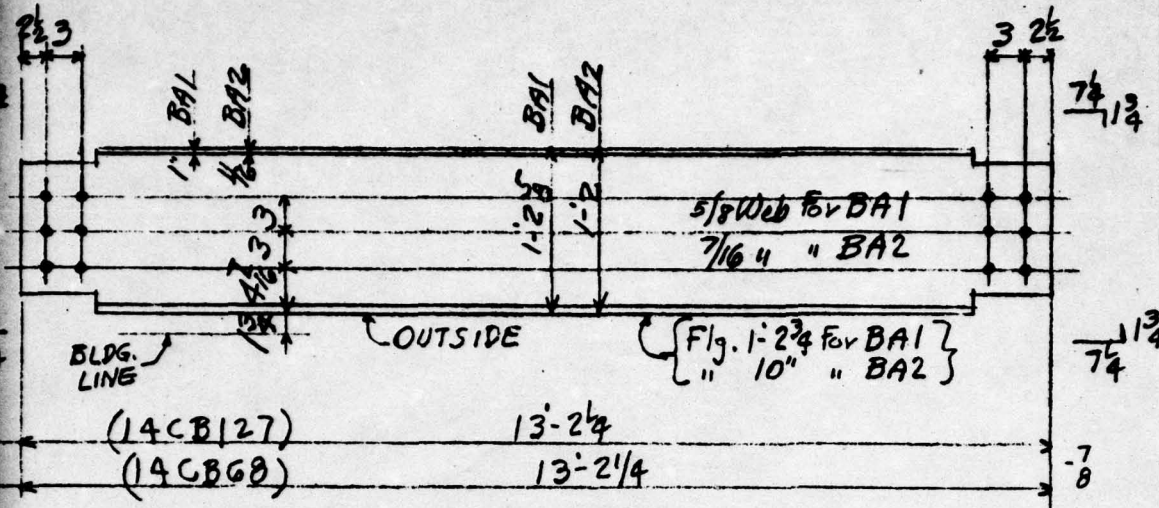
137

BA1
BA2

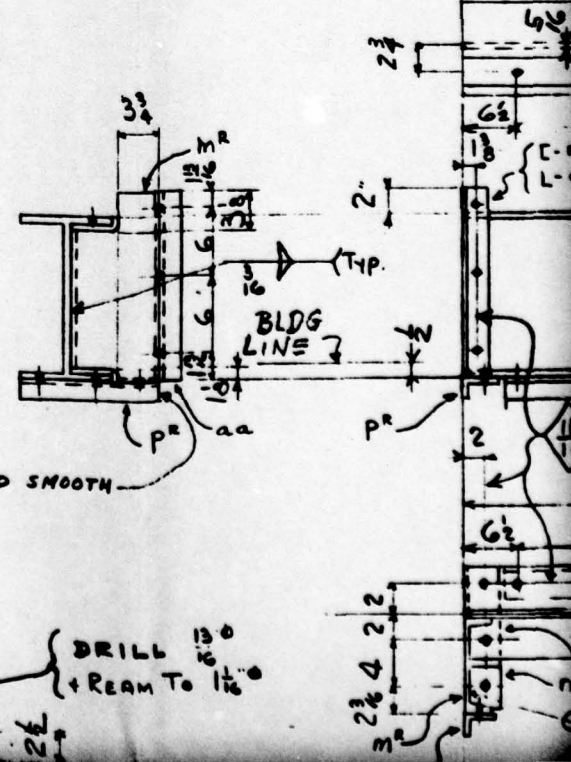
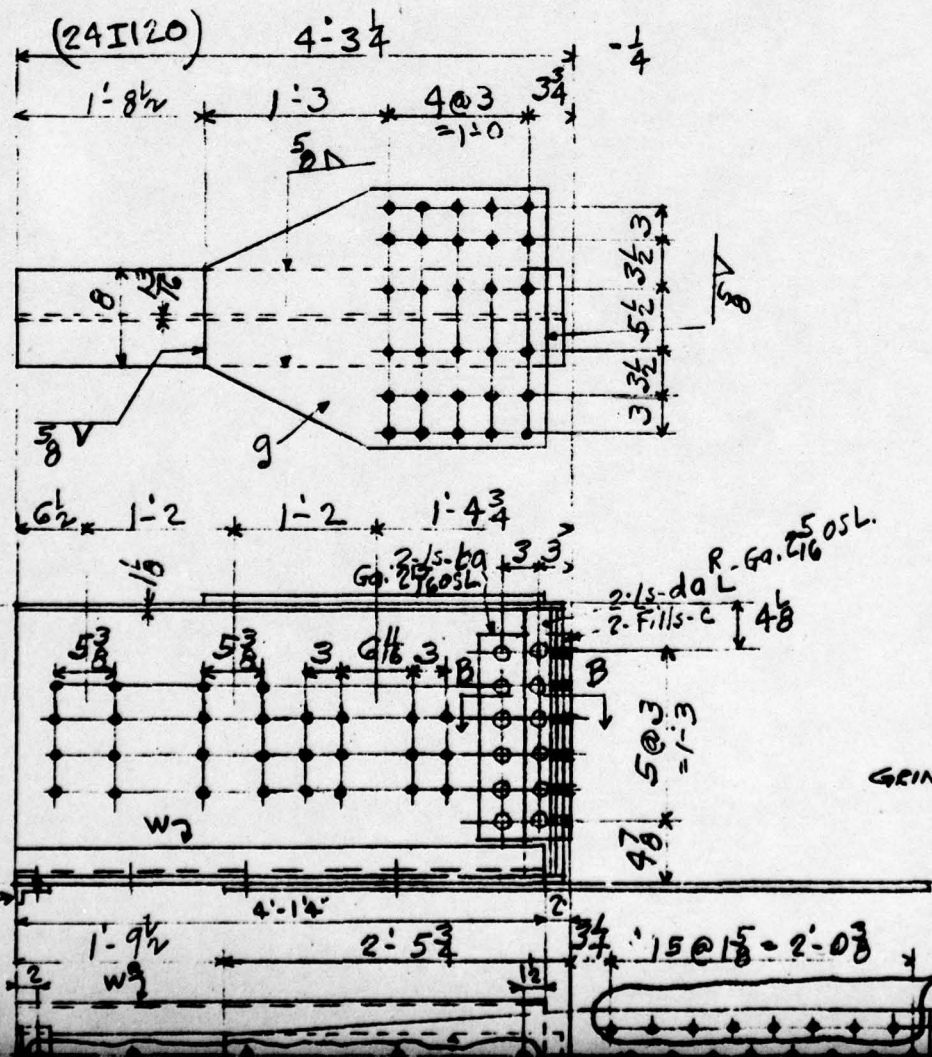


Symbol





- 3- Beams - BA1
- 2- " BA2



DRILL 130
+ REAM TO 1 1/8"

8 @ 1'-2" stagg. = 9'-4"

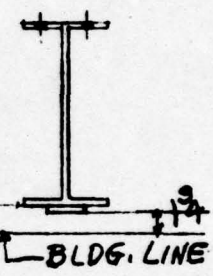
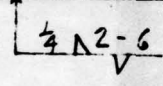
1'-3 3/4"



OUTSIDE

No. 4

1'-3 3/4"

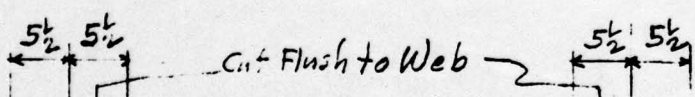


-8 1/2

(16CB 3.6)

11'-11 1/2"

STRESS RELIEVE) 2- Bar 115 - BA3



bar-X

11/16 φ HOLES

18 @ 1'-0" = 18'-0"

SUB PUNCH 13/16 φ HOLES AND REAM FOR 11/16 TURNED BOLTS

6 1/2

1'-1 1/2"

4 3/8"

ab

OUTSIDE

L-ab

4'-3 1/2"

10'-6"

4'-3 1/2"

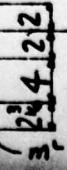
18 @ 1'-0" = 18'-0"

2

2

6 1/2

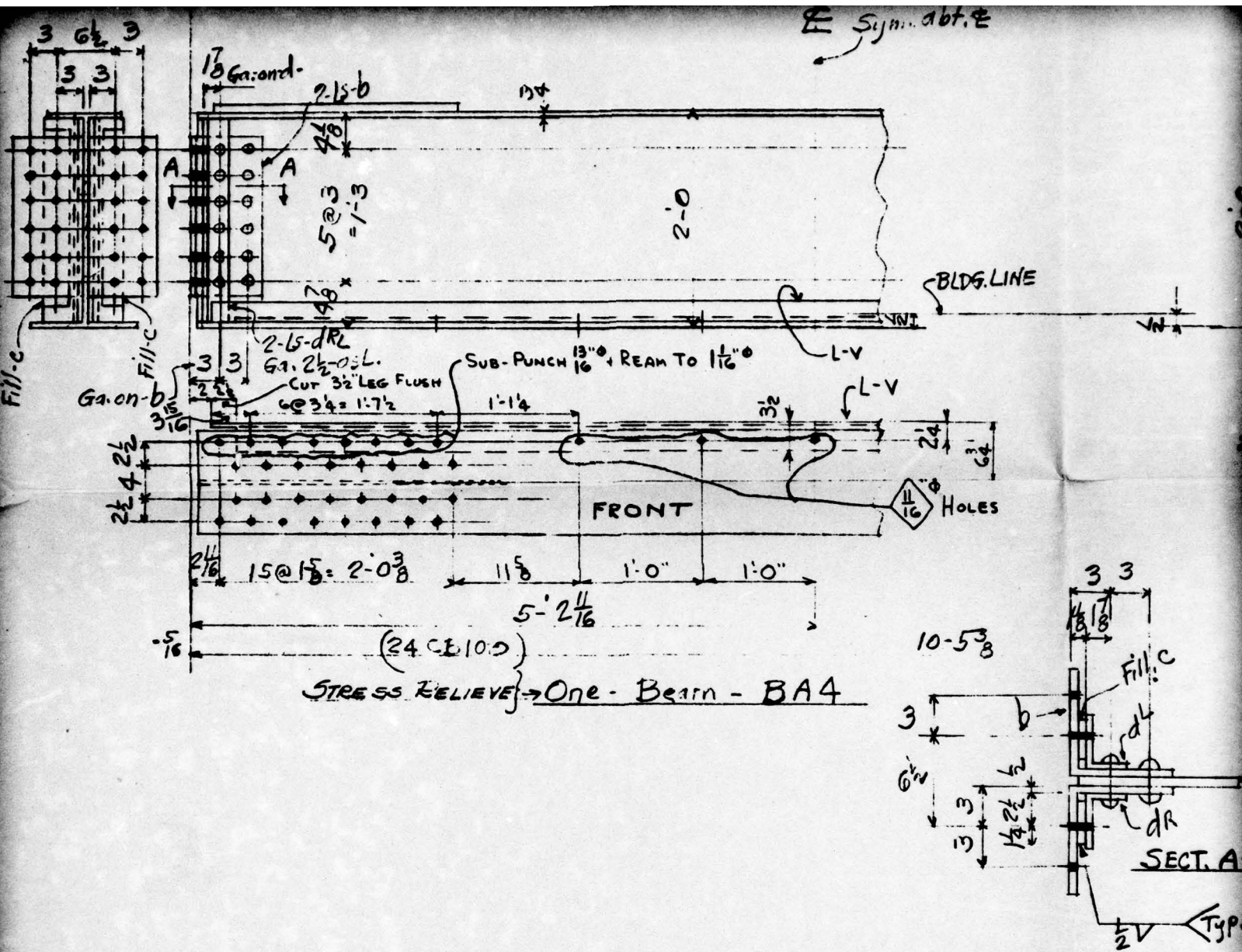
6 1/2



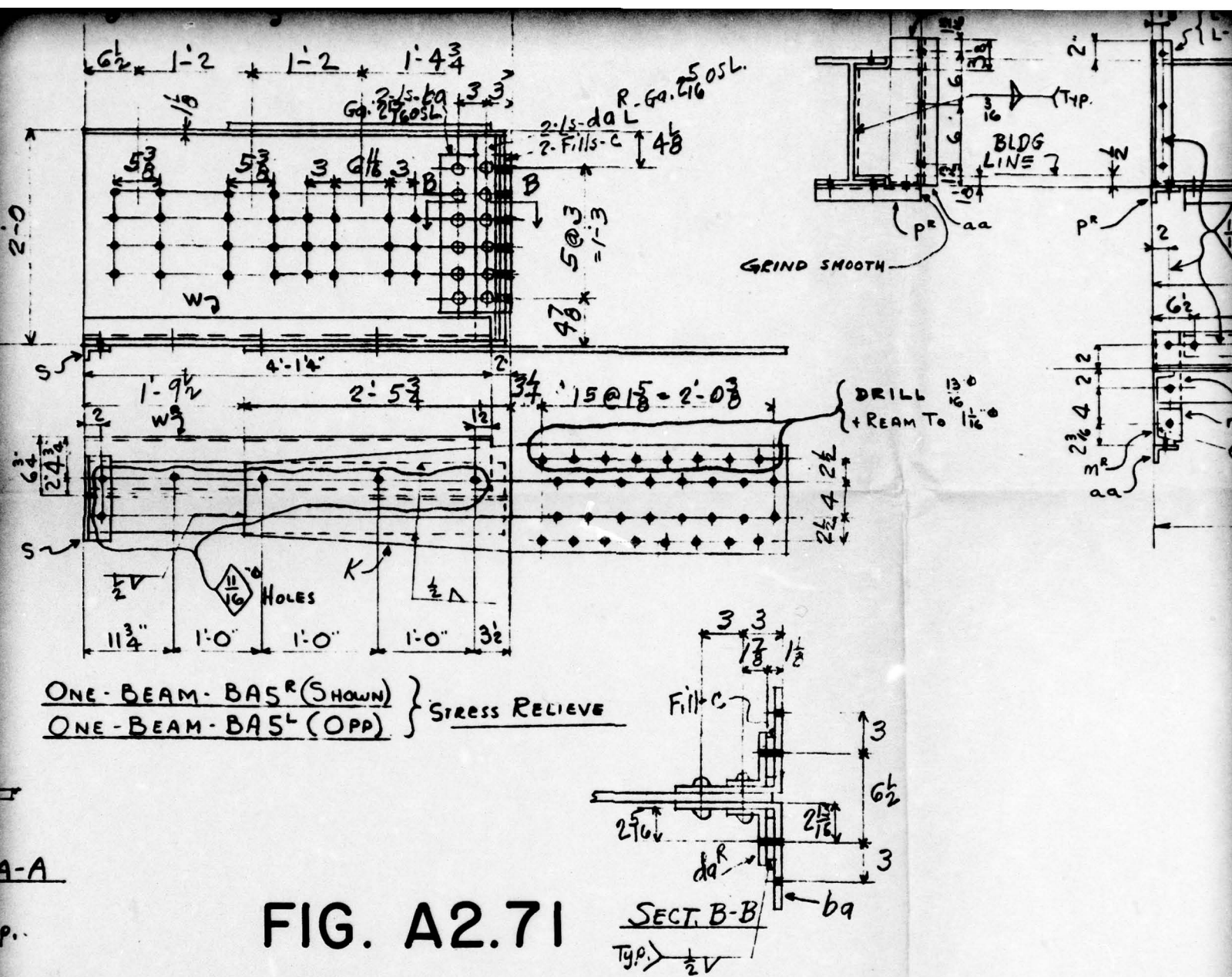
PL

PR

(TYP.)



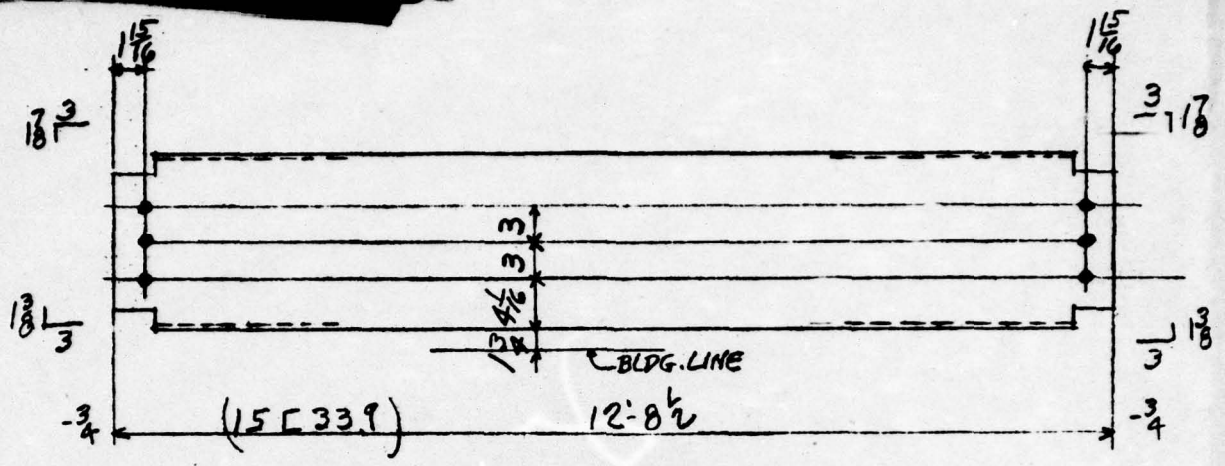
LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTS.	WEIGHT	PILE				LINE	SHIP. PCS.	DETAIL PCS.
									2						
1			L 3 1/2 x 3 + 1/2	8'-10	CA1	A7	S	RL4-12-13	1				18	1	L 3 1/2 x 3
2			L 3 1/2 x 3 + 1/2	8'-11	CD1		S	RL4-12-13	1				19	2	L 3 1/2 x 3
3	3		14CB 127	13'-2 1/4	BA1		S	ML3-35-36	3				20	1	BAR
4	2		14CB 68	13'-2 1/4	BA2		S	RL3-15	2				21	2	15 2 1/2



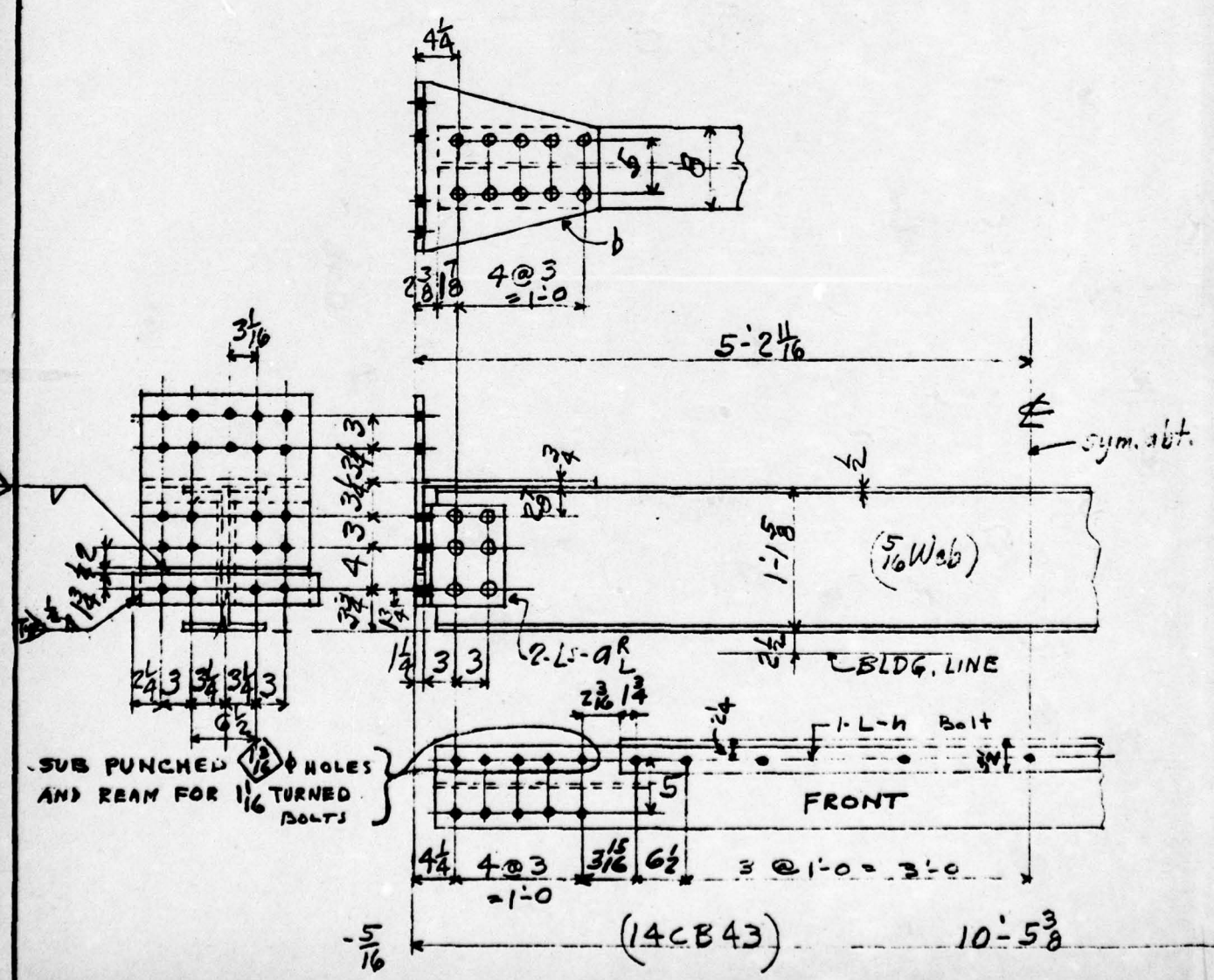
ONE-BEAM-BAS^R (SHOWN) } STRESS RELIEVE
 ONE-BEAM-BAS^L (OPP) }

FIG. A2.71

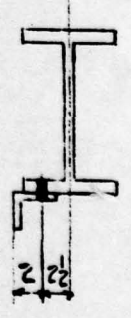
DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTS.	AMOUNT	PILE	LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LENGTH PATTERN
						2					



3- Beams - BD1



One Beam - BD4



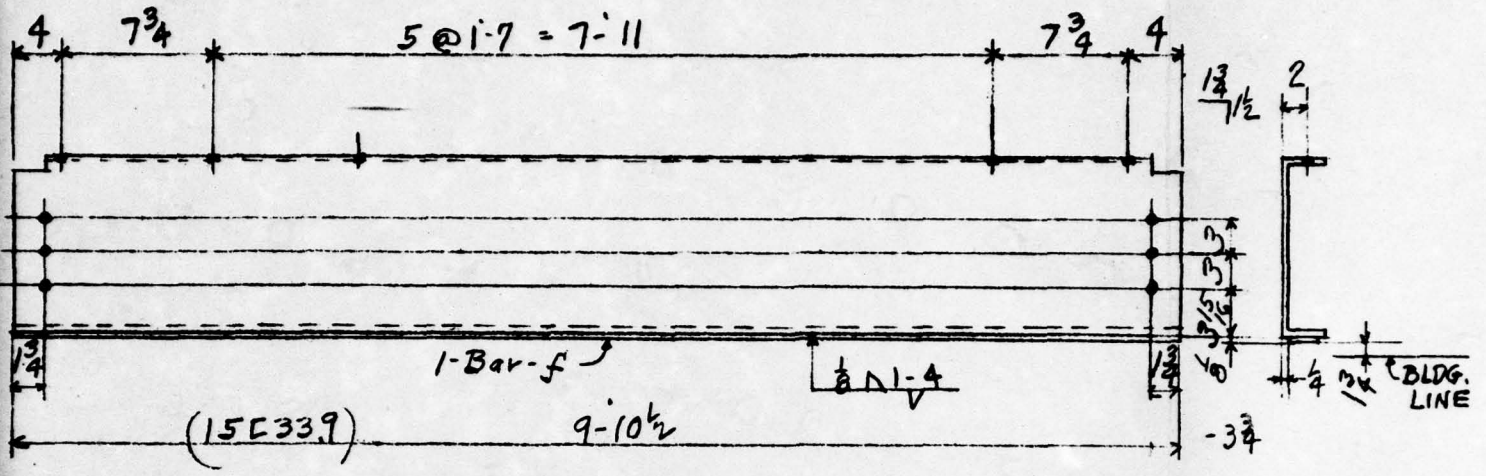
SUB PUNCHED HOLES AND REAM FOR 1/16 TURNED BOLTS

FRONT

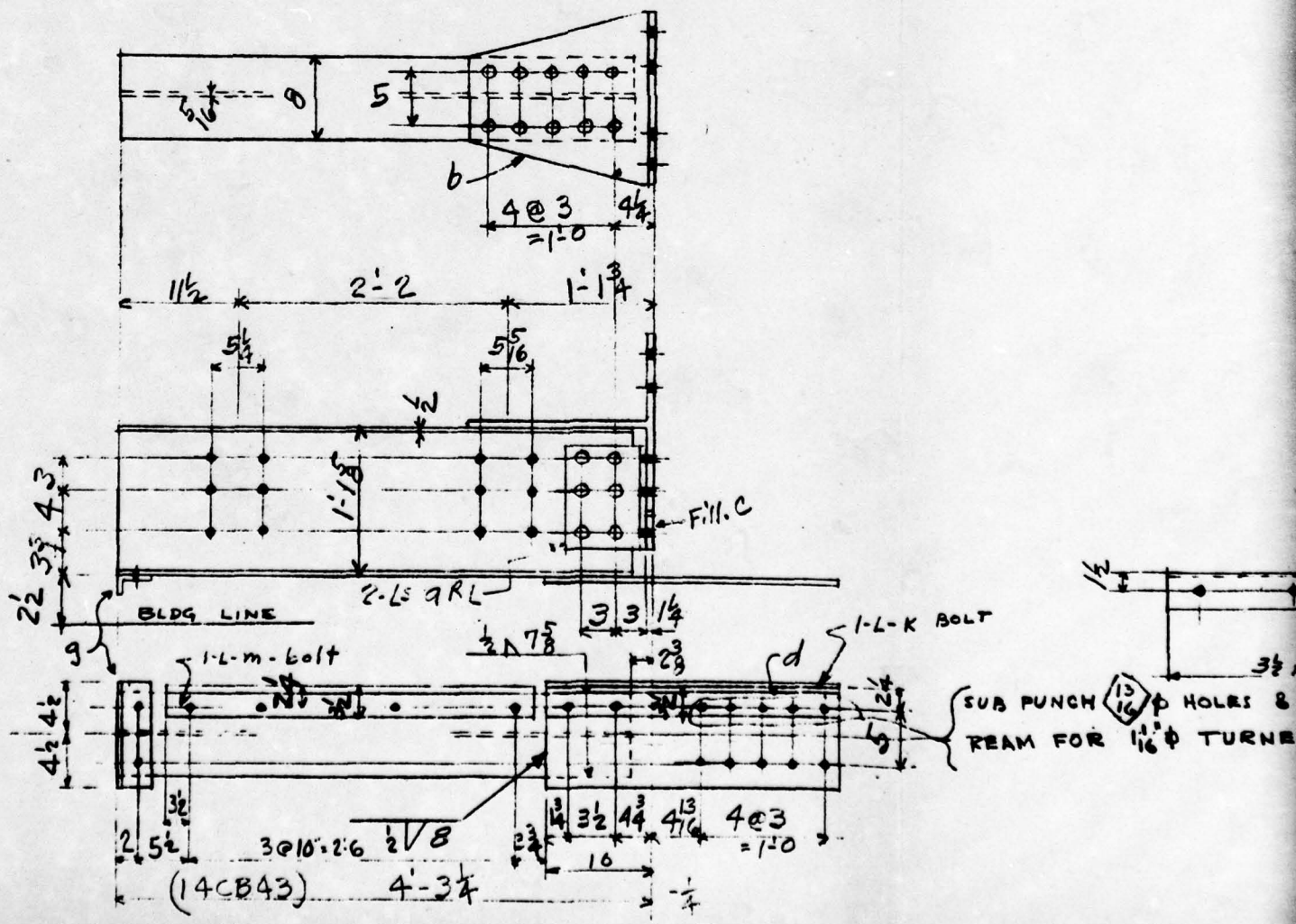
Sym. abt.

1 3/4

-3 3/4

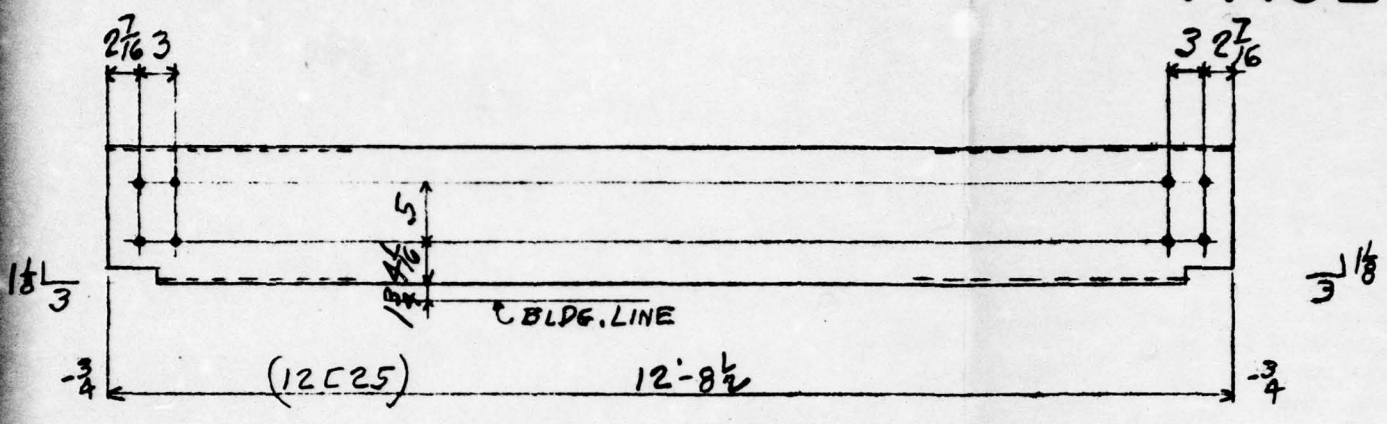


2-Beams- BD2
(STRESS RELIEVE)




ONE - BEAMS - BD5^E SHOWN
ONE " BD5^L OPP

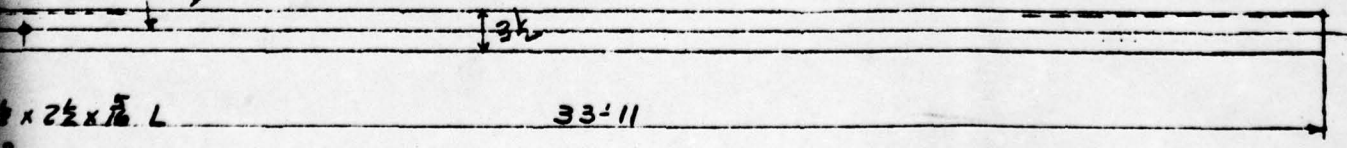
HOLE



2-Beams- BD3

DATE 12/21/11

 Holes Drilled in FIELD



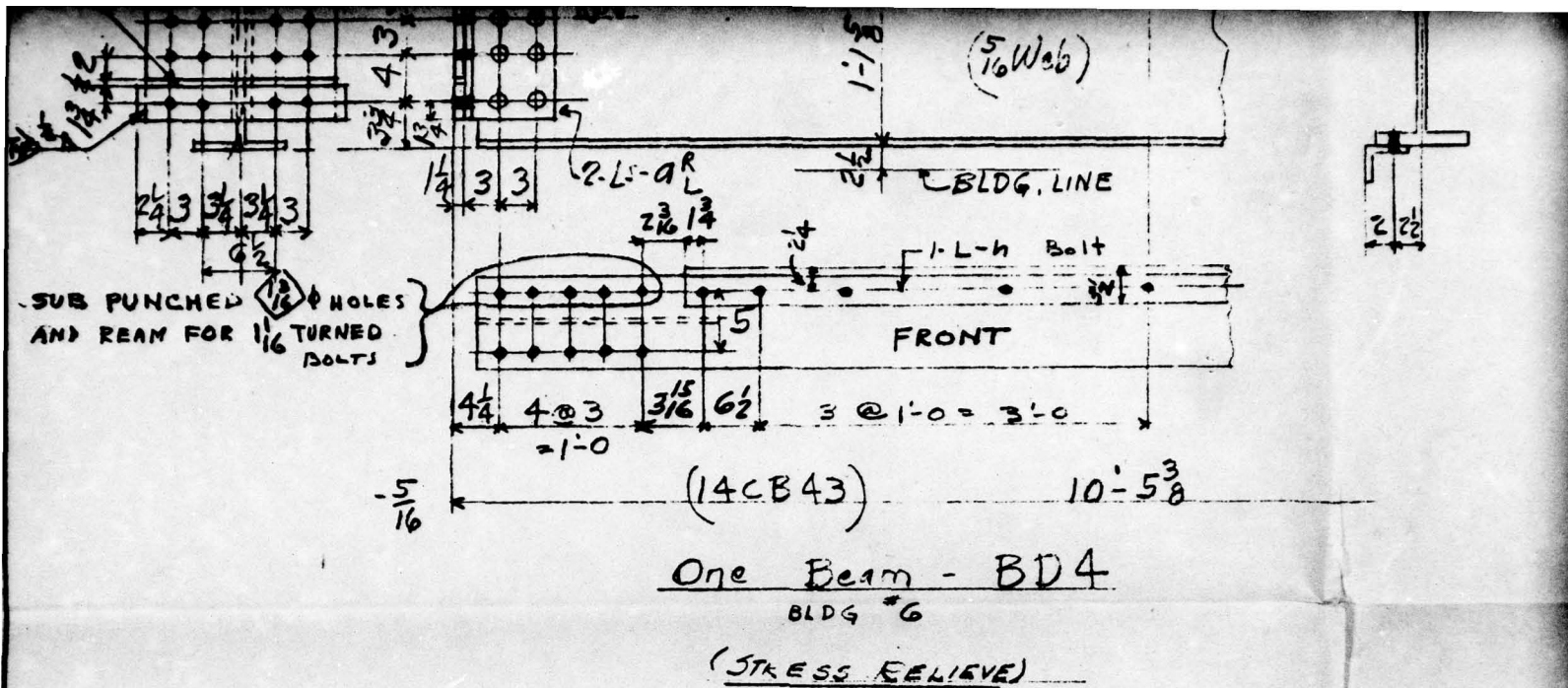
8 x 2 1/2 x 1/4 L

33'-11"

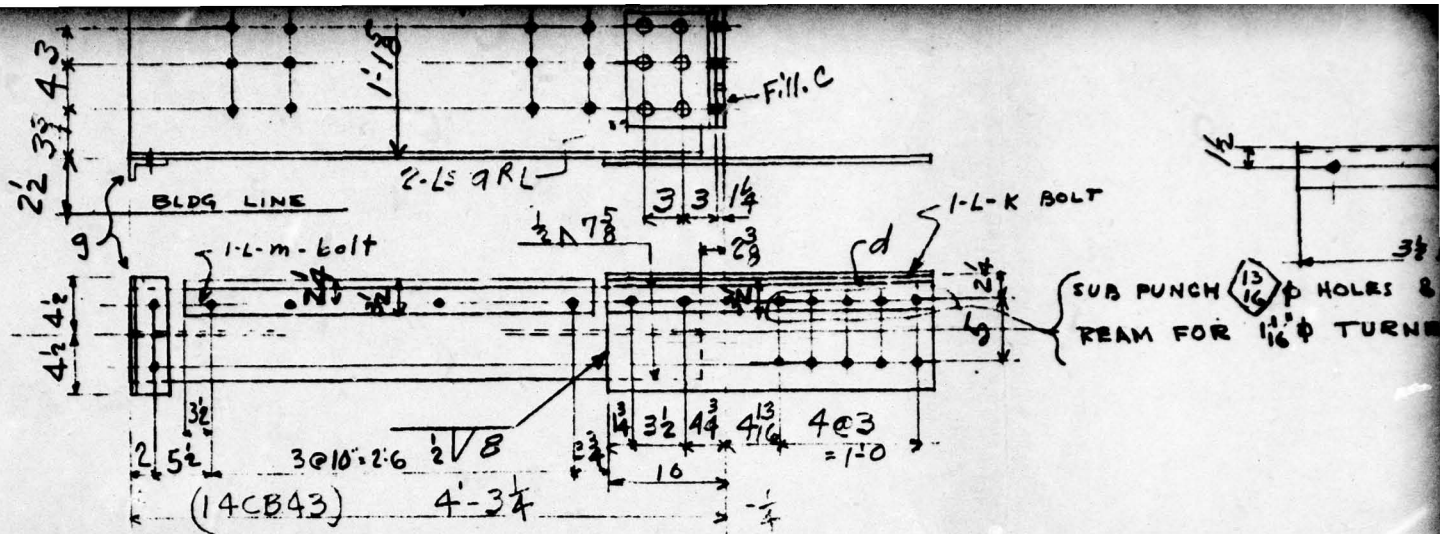
8 RED BOLTS

8-Corner Angle - CA2

FOR NAILS - PUNCH IN FIELD



LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPT.	WEIGHT	PILE					LINE	SHIP. PCS.	DETAIL PCS.
									1	2						
1	3		15C33.9	12'-8 1/2	BD1	A7	S	RL3-32	3					18	1692	STRAPS
2	2		15E33.9	9'-10 1/2	BD2		SBS	RL3-33	2					19		
3	2		12C25	12'-8 1/2	BD3		S	RL3-35	2					20	10	Lbs
4	1		14CB43	10'-0 5/8	BD4		SBS	MLT-8	1					21	48	SHOP
5	8		L8x8x1/2	0'-10 1/2	aRL		S							22	1	1-3



ONE - Beams - BD5^R SHOWN
 ONE " BD5^L OPP

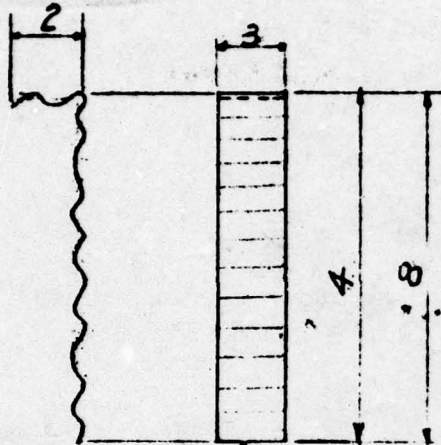
(STRESS RELIEVE)

HOLE

C-11"

FIG. A2.72

DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTS.	WEIGHT	PILE				LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LWR. PATN.
						2								
2-1/2 x 16 Gg. (BENT)	3'-5"	MXI	Control QUALITY	L	RL 4	1692				35				
Weld Rod E 7010-11	OR 20			S						36			Beams Marked: BD	
RIVETS 1" P			A-141	S						37			BD5 ^L To Be 50	
3 1/2 x 2 1/2 x 5/16	2'-4 1/2"	K	A7	S						38			After Welding.	
3 1/2 x 2 1/2 x 5/16	3'-1"	m	A7	S						39				
										40				
										41				



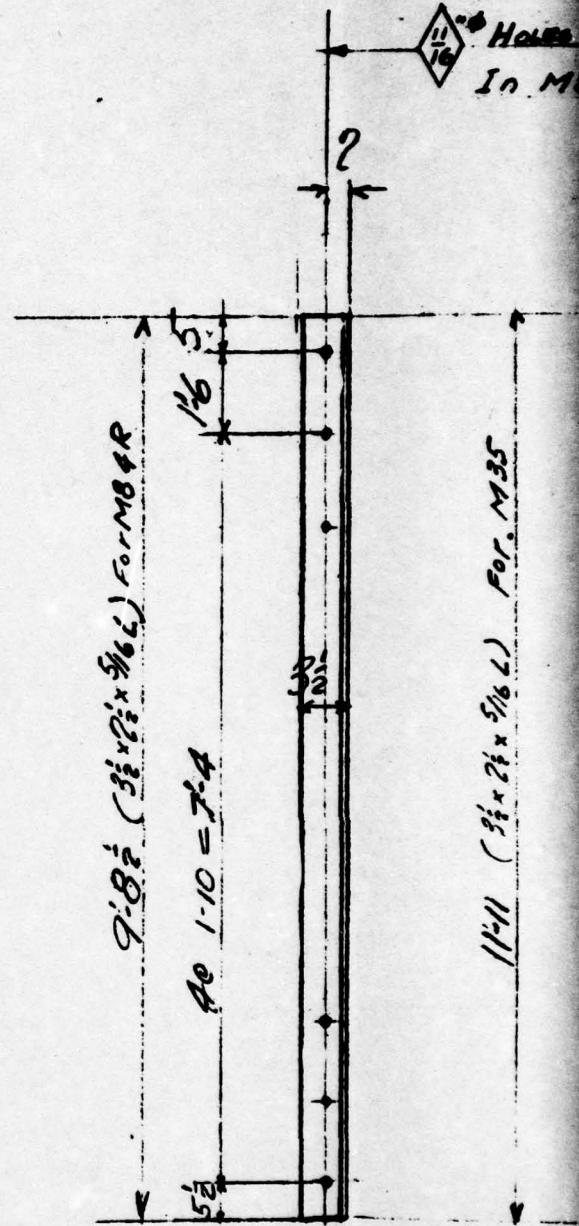
14 GA. CORRUGATED

M41

M42

75-BRICK ANCHORS M41

125-BRICK ANCHORS M42



24 SEALING ANGLE-M35 (PI)

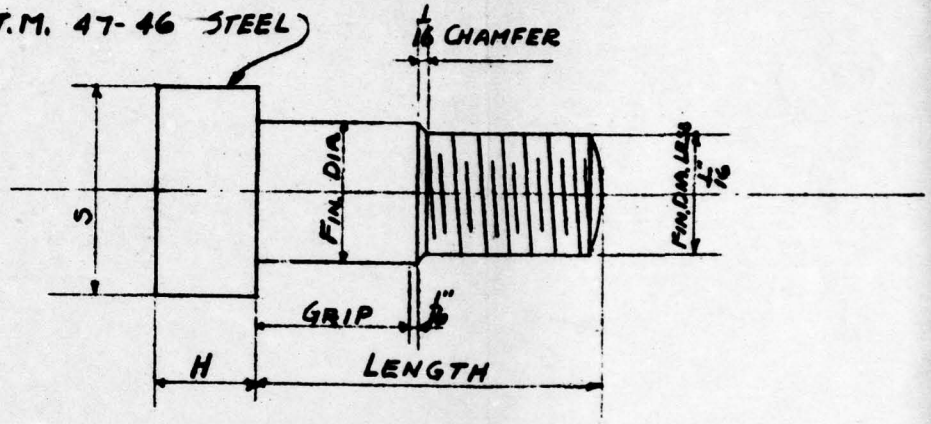
6 SEALING ANGLE-M84R (SM)

6 SEALING ANGLES-M84L (OP)

184^F

A.S.T.M. 47-46 STEEL

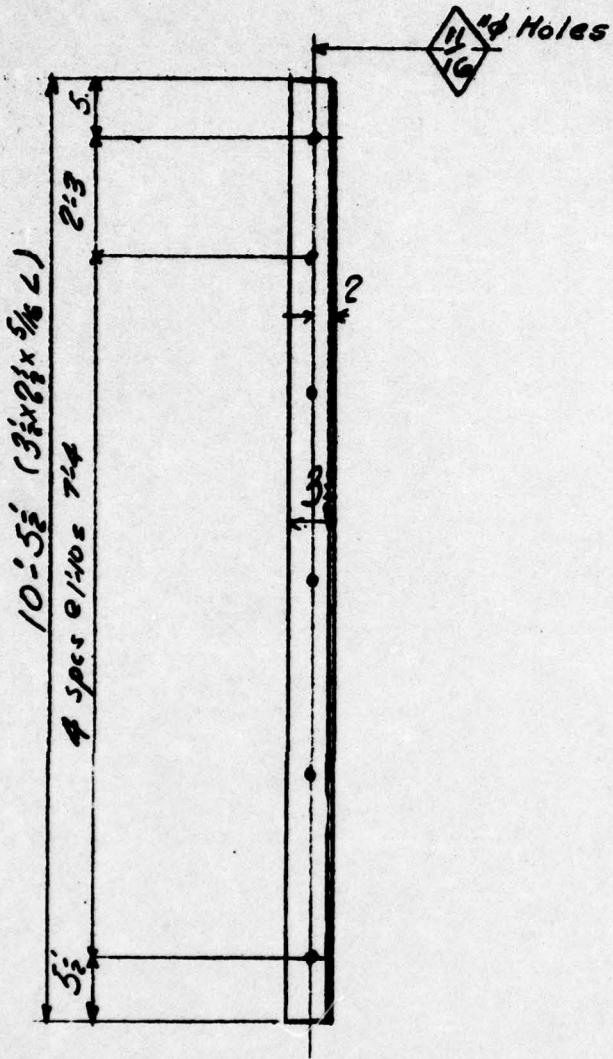
1/16 CHAMFER



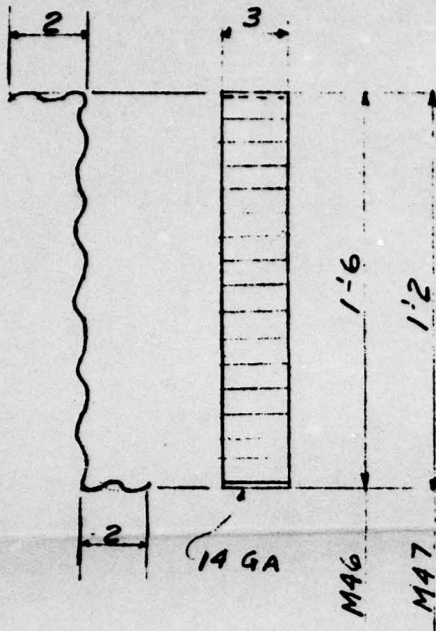
NO PAINT

FIN. DIA.	SIZE OF HEX. STEEL	H	STD. HEX. NUTS
1/16	1 1/2	3/4	-
1/10	1	1/2	5/8

(in)
(mm)
(positive)



3- SEALING ANGLES - MB2R (shown)
3- SEALING ANGLES - MB2L (opposite)



24 SEALING ANGLE-M35 (PLAIN)
6 SEALING ANGLE-MB4R (SM)
6 SEALING ANGLES-MB4L (OP)

125 BRICK ANCHORS M46
40 BRICK ANCHORS M47 } NO PAINT

LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	DEPTS.	FILE										LINE	SHIP. PCS.	DETAIL PCS.	
								3	2	1											
1	24		L 3 1/2 x 2 1/2 x 5/8 (Plain)	11-11"	M35	A7	S		24									18	3	LS	
2																			19	3	LS
3	75		14 GA X 3" CORRUS.	0-6"	M41	COMM. QUALITY	L		75										20	6	LS
4	125		14 GA X 3" "	0-10"	M42				125										21	12	LS
5	125		14 GA X 3" "	1-10"	M46				125										22	6	LS
6	40		14 GA X 3" "	1-6"	M47				40										23	6	LS
7	58		TURNOB BOLTS 1/16 FIN. DIA.	0-2 1/2"		A7	M		29	29									24		
8			1 1/2" GRIP																25	19	TURNOB
9	58		STRUCT. WASHERS 3/8" THICK 1/2" HOLE			COMM. QUALITY	S		29	29									26		25
10	74		TURNOB BOLTS 1/8 FIN. DIA.	0-2 3/8"		A7	M		74										27	19	1" GRIP
11			1 1/2" GRIP																28	19	STRUCT. WASHERS
12	74		3/8" HEX NUTS			COMM. QUALITY	M												29	24	TURNOB
13	74		STRUCT. WASHERS 3/8" THICK 3/8" HOLE				S		74										30		1" GRIP
14	18		TURNOB BOLTS 1/8 FIN. DIA.	0-2"		A7	M		18										31	24	1" GRIP
15			1 1/2" GRIP																32	24	STRUCT. WASHERS
16	18		3/8" HEX NUTS			COMM. QUALITY	M												33	19	TURNOB
17	18		STRUCT. WASHERS 3/8" THICK 3/8" HOLE				S		18										34		1" GRIP

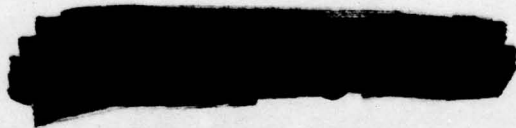
4

(ain)
 (hawa)
 (pposite)

FIG. A2.73

DESCRIPTION	LENGTH OR PATTERN NO.	PIECE MARK	MATL.	QDPTS.	WEIGHT	PILE						LINE	SHIP. PCS.	DETAIL PCS.	DESCRIPTION	LEN. PATN.
						3	1	2								
3/8 x 2 1/2 x 5/16	10-5 1/2	M82R	A7	S		3						35	19	1" Hex Nuts		
3/8 x 2 1/2 x 5/16	10-5 1/2	M82L	A7	S		3						36	19	Struct. Washers - 3/8" Thk.		
3/8 x 2 1/2 x 5/16 (Plain)	10-5 1/2	M83	A7	S		6						37				
3/8 x 2 1/2 x 5/16 (Plain)	9-8 1/2	M85	A7	S		12						38				
3/8 x 2 1/2 x 5/16	9-8 1/2	M84R	A7	S		6						39				
3/8 x 2 1/2 x 5/16	9-8 1/2	M84L	A7	S		6						40				
												41				
Red Bolts - 1/2" Dia. Dia	0-3 3/8		A7	M	5.00 No. 2						19	42				
5/16" Grip												43				
Hex Nuts				Comm. Quality	M							44				
Struct. Washers - 3/8" Thk. - 1/2" Hole					S						19	45				
Hex Bolts - 1/2" Dia. Dia	0-3 3/8		A7	M	5.00 No. 2						12/12	46				
5/16" Grip												47				
1" Hex Nuts				Comm. Quality	M							48				
Struct. Washers - 3/8" Thk. - 1/2" Hole					S						12/12	49				
Red Bolts - 1/2" Dia. Dia	0-4 1/2		A7	M	5.00 No. 2						19	50				
Grip - 2 1/2"												51				

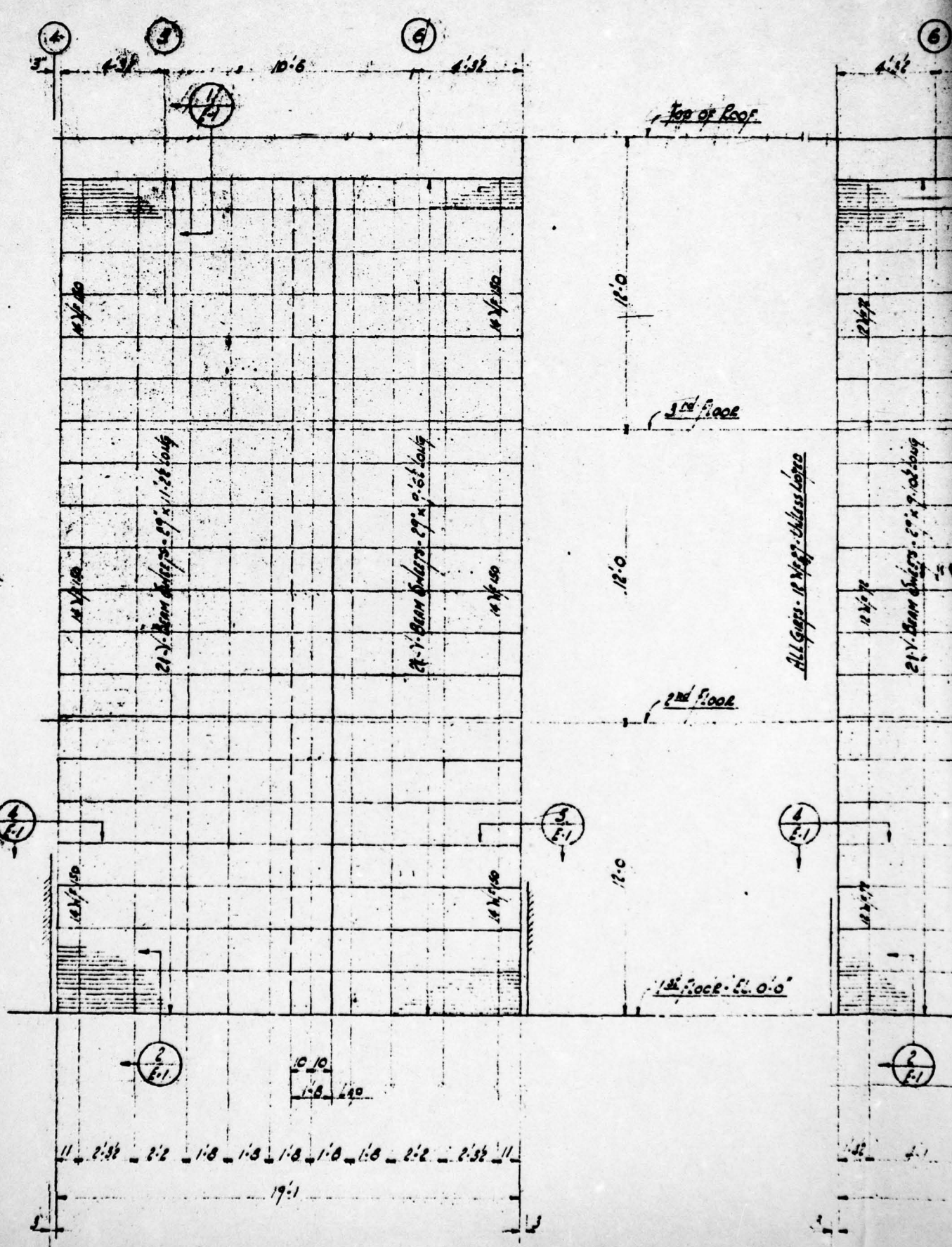
3-SEALING ANGLES-MB2R (shown)
3-SEALING ANGLES-MB2L (opposite)



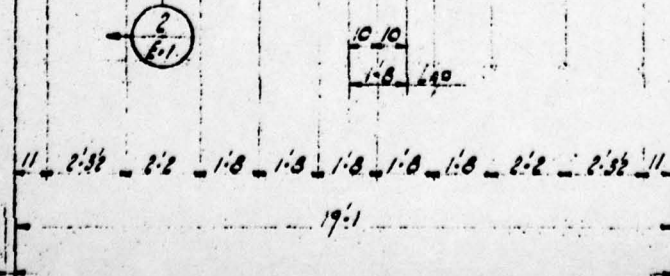
UNCLASSIFIED

LENGTH OR PATTERN NO.	PIECE MARK	MATERIAL	DEPTH	WEIGHT	PILE			
					1	2	3	4
		Comm. Qual.	M		2			
13" Hole		↓	S		19			

All Girts 12 W 8 1/2 - 11.28 Lbs/Lin



All Girts 12 W 8 1/2 - 11.28 Lbs/Lin

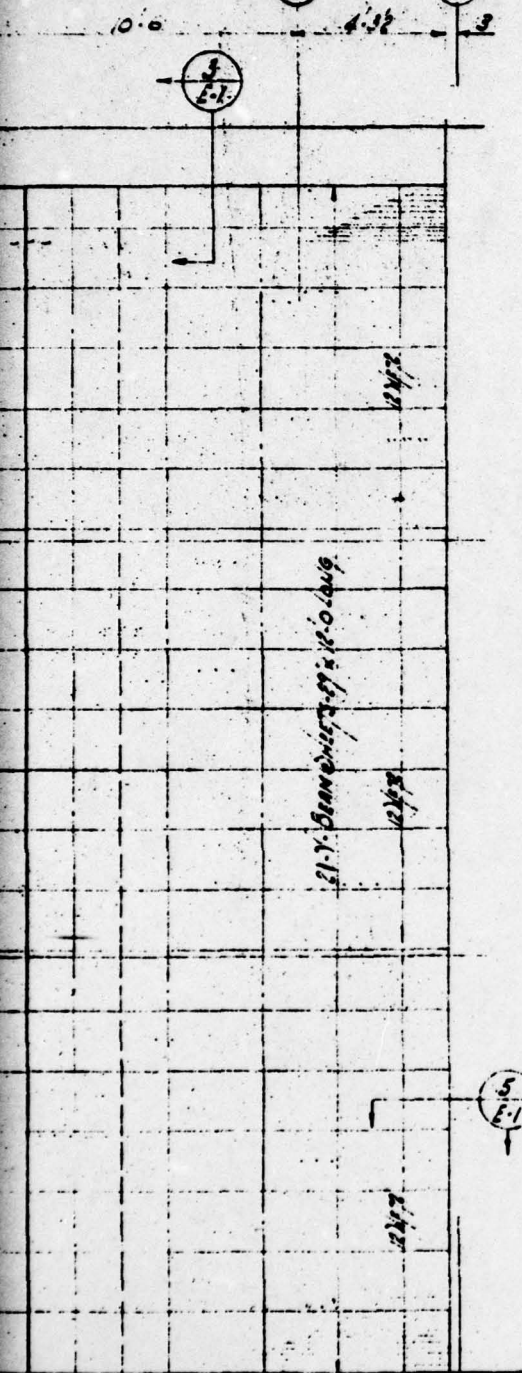


204 - 2.0000

5

4

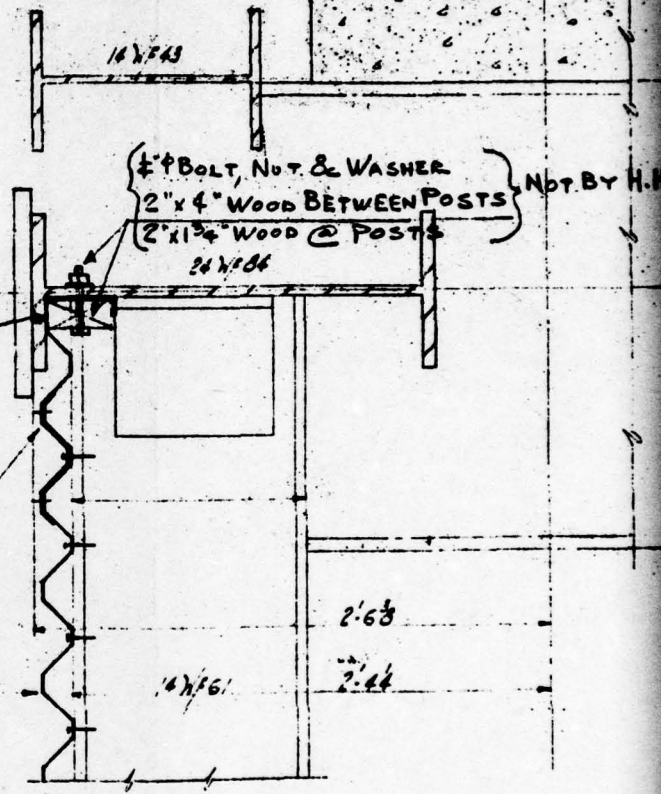
3/2



CUT & CRIMP V-BEAM IN FIELD

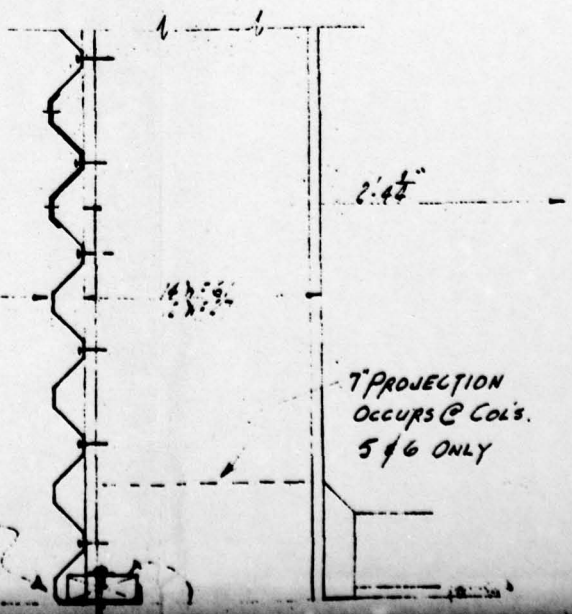
SECTOR TO CUT & CRIMP SHEET IN THE FIELD

20M-7 BEAM



SECTION 1/51

5
E-1



CRIMP V-BEAM IN FIELD

14x743

Top of Roof

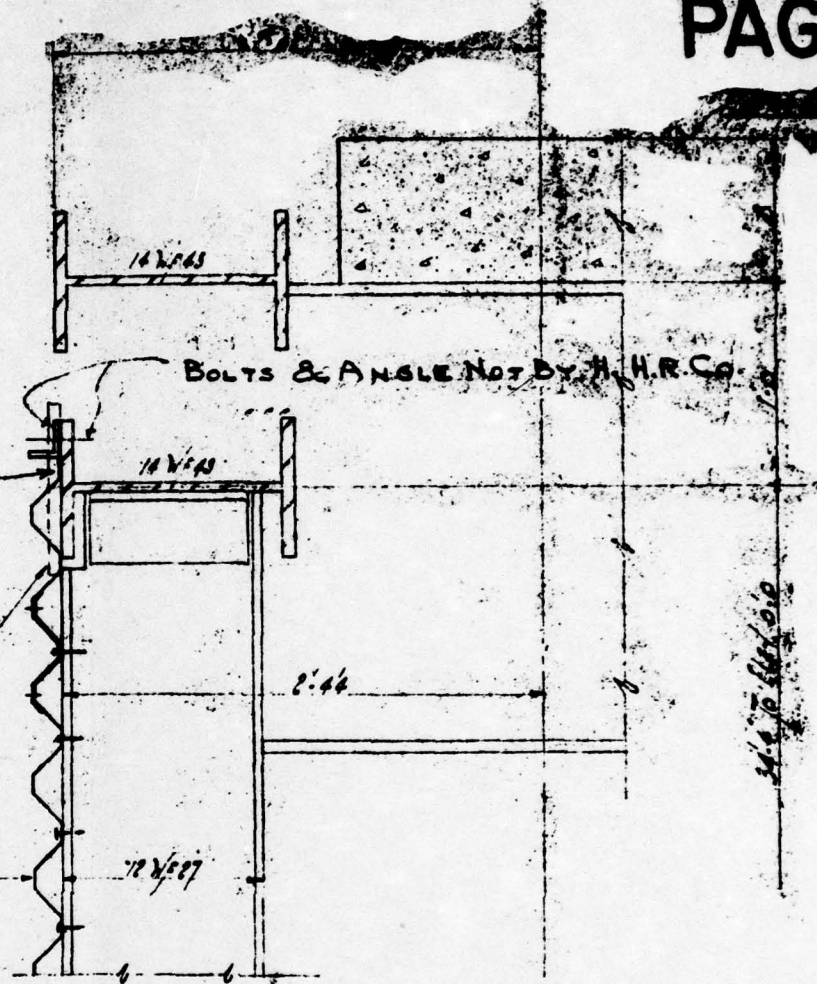
H.R. Co.

CUT & CRIMP
V-BEAM IN FIELD

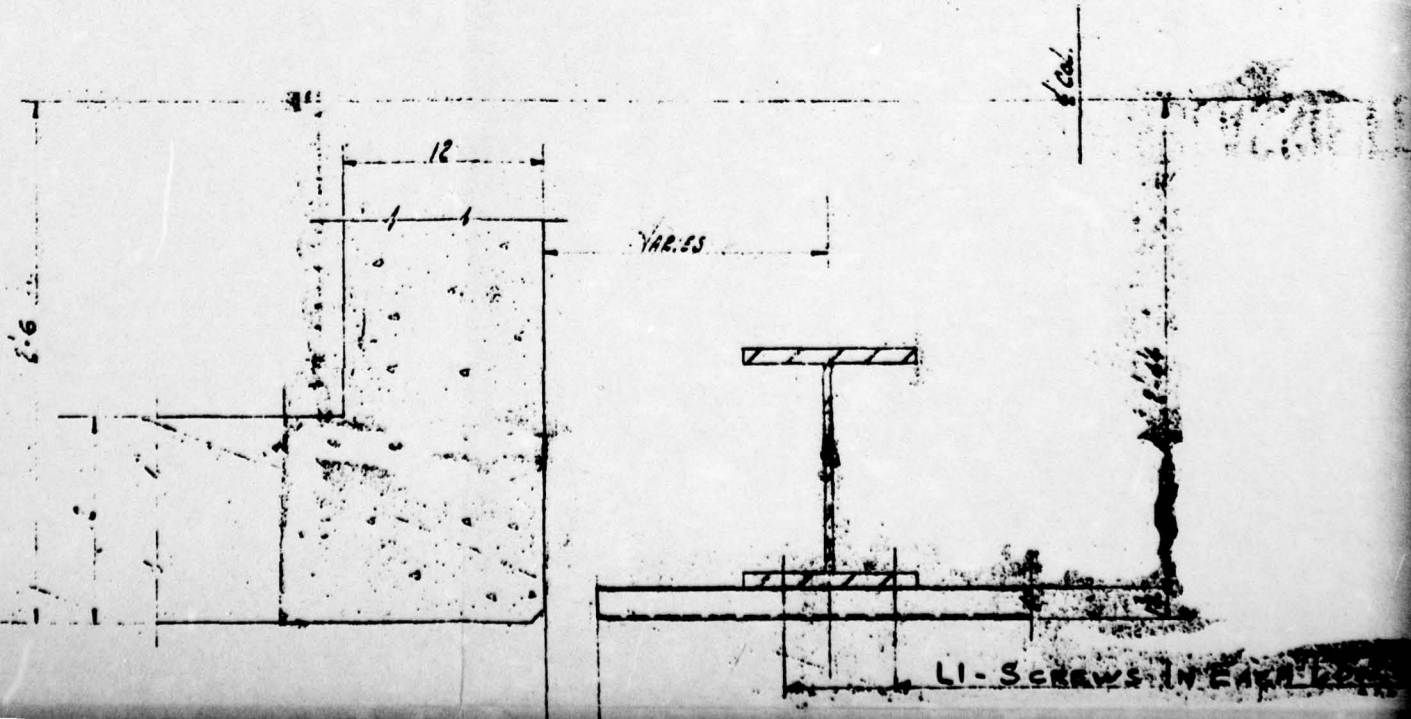
BOLTS & ANGLE NOT BY H.R. Co.

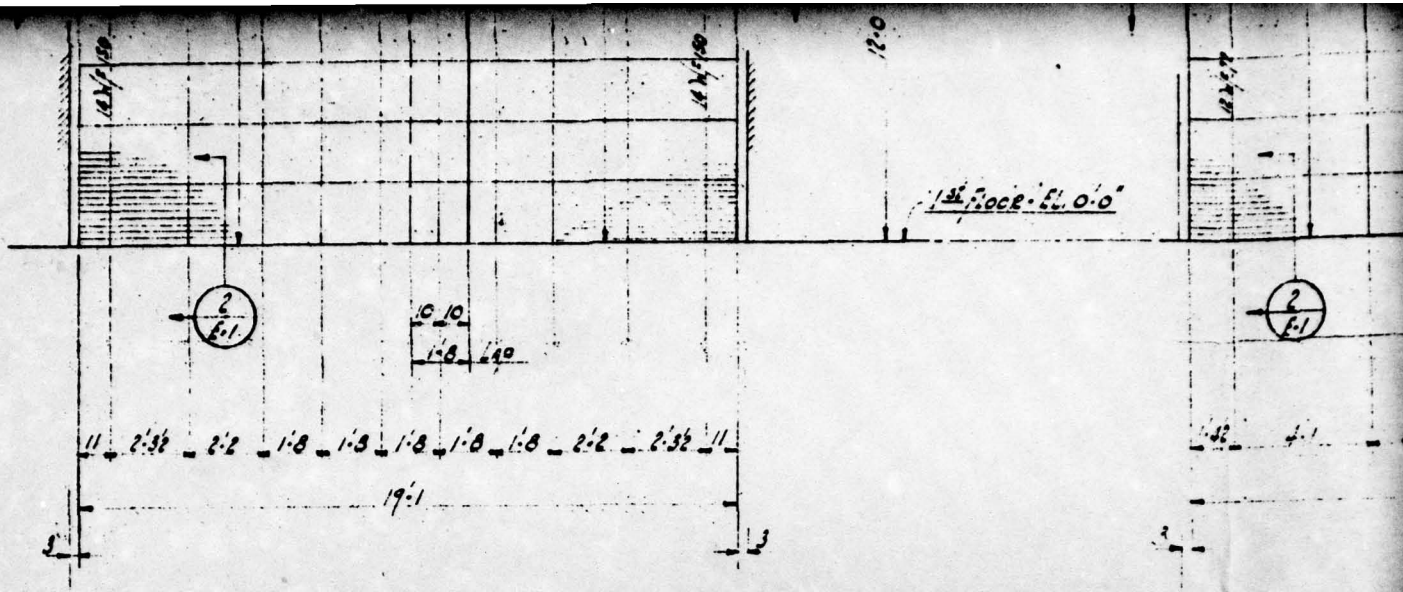
WHERE 12" x 4" SOLIDS ARE
OCCUR FIRST OF 0 R. 4"
SHOULD BE SOLID IN FIELD

EPY. 2.5" W

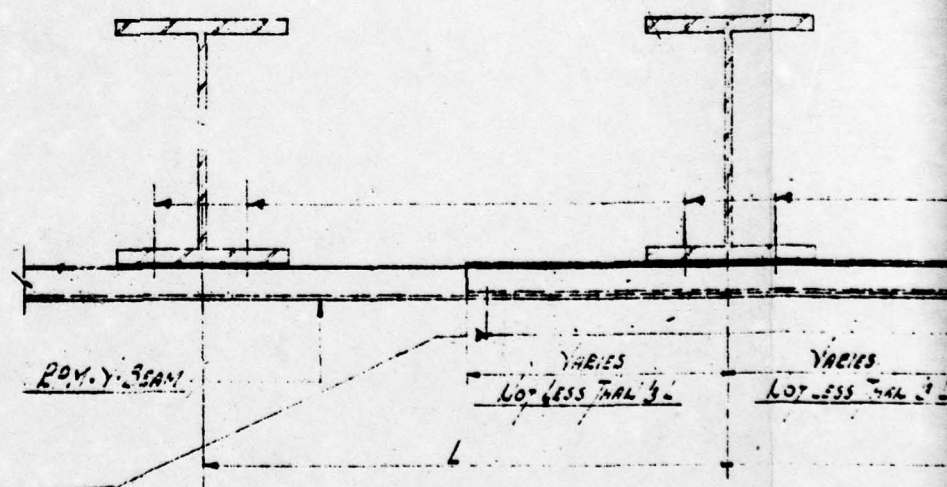
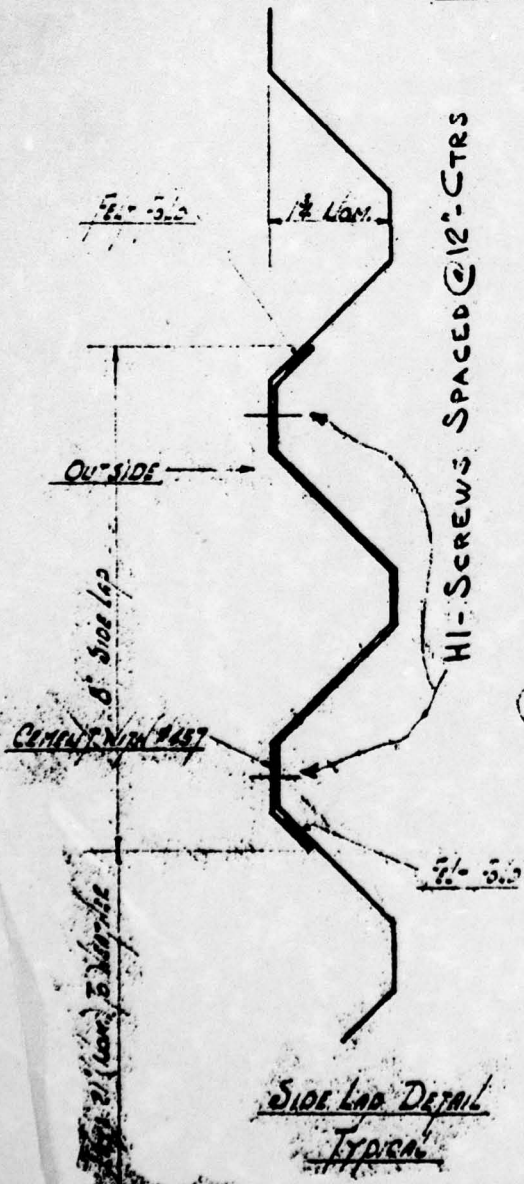


SECTION 3/1



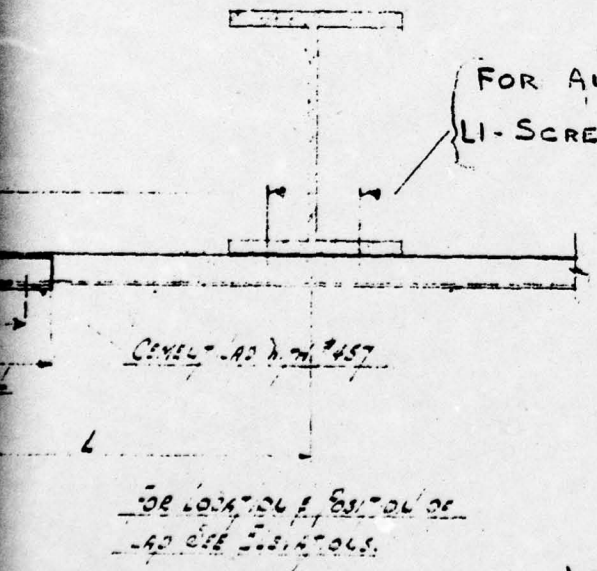
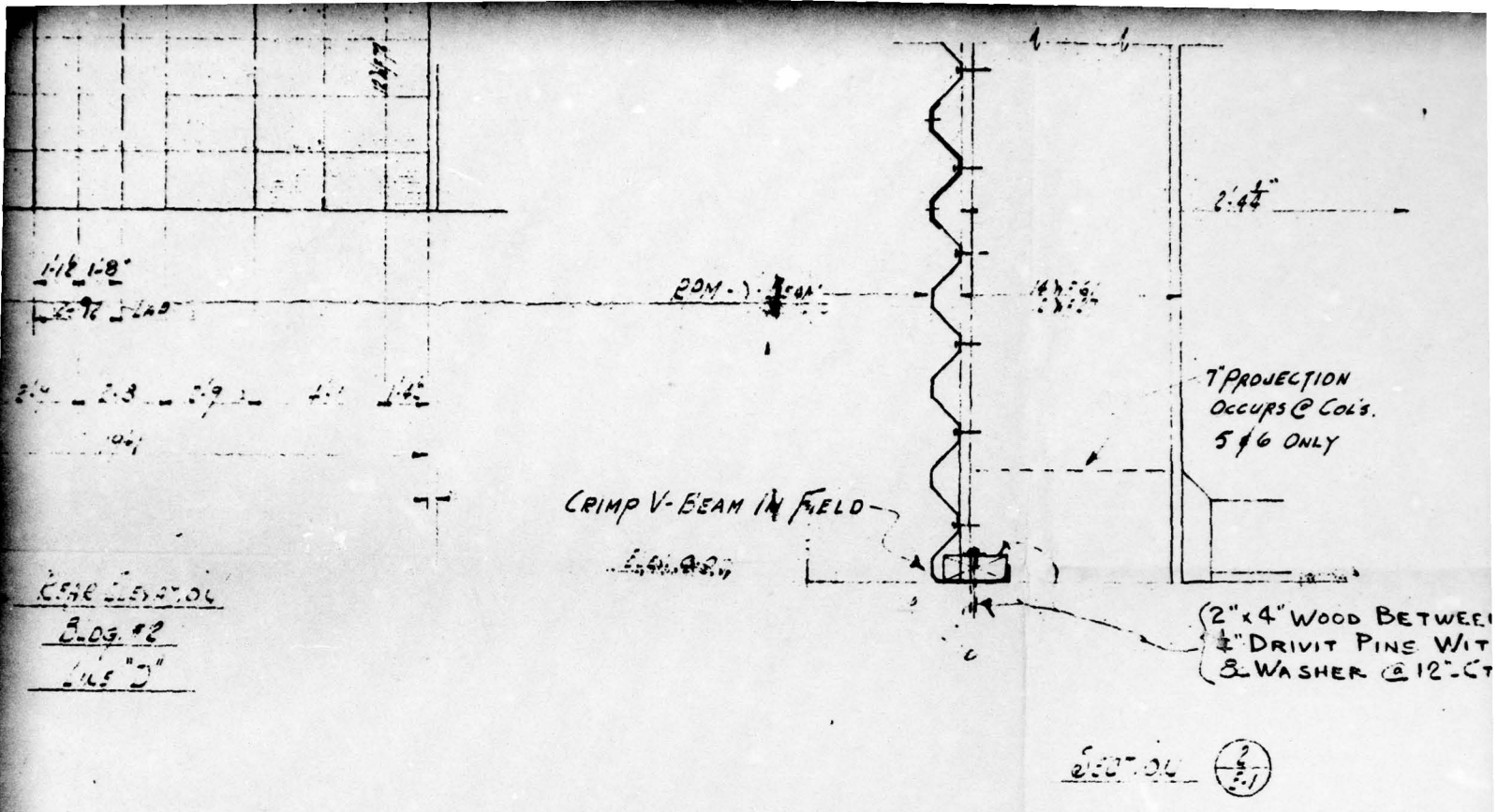


ROOF ELEVATION
Blg. #2
LINE 'A'



{ H3 - SCREW IN 1ST HIGH V
 H1 - SCREW IN 2ND, 3RD, 4TH & 5TH HIGH V'S

ILD LAP DETAIL
TYPICAL



SECTION 2/2.1

ERECTOR
 SECTION - LO. 5/4/4. PAGES 50
 CHECK - ALL SIZES & END
 FOR CUT EDGES TO BE
 TREAT SURFACE FIBERS
 ONLY EXPOSED W/ST.
 FLASHINGS NO
 UNLESS NOTE

LEGEND FOR TOP SPEED FASTENERS

- L1 - #12 x 3" DRIVE SCREWS WITH NEOPRENE WASHER ATTACHED
 - L2 - #14 x 3" SHEET METAL SCREWS WITH NEOPRENE WASHER ATTACH
 - L3 - #14 x 1 3/8" DO. DO. DO.
 - H1 - #14 x 3/4" DO. DO. DO.
 - H2 - #14 x 3/8" DO. DO. DO.
 - H3 - #14 x 1/8" DO. DO. DO.
 - G - #14 x 1 1/2" DRIVE SCREW NAIL WITH 1/2" FELT WASHER ATTACH
 - F - #8 x 1 1/2" C.H. NAILS, #12 x 1" RAWL PLUG, 1/2" x 5/8" LEAD WASHERS.
- USE - #11 - HIGH SPEED DRILL FOR FASTENERS.

FIG. A2.74

AD-A074 618

AMMANN AND WHITNEY NEW YORK
SCIENTIFIC DIRECTOR'S REPORT OF ATOMIC WEAPON TESTS AT ENIWETOK--ETC(U)
NOV 51

F/6 18/3

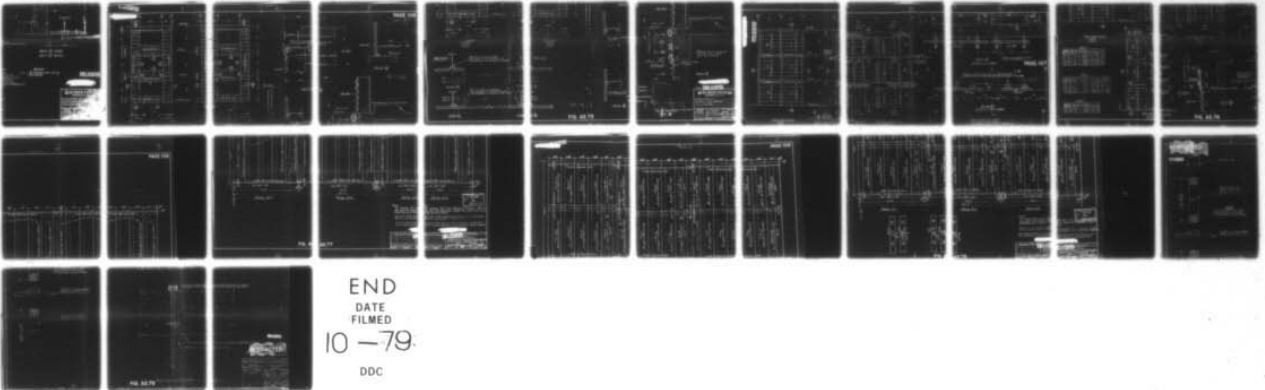
UNCLASSIFIED

AEC-WT-60(REF)-PT-3

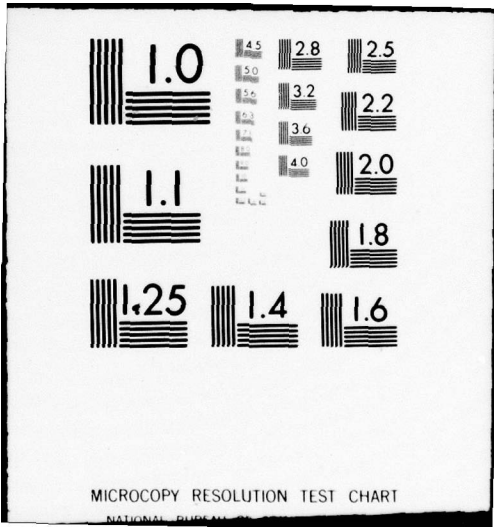
NL

2 OF 2

ADA
074618

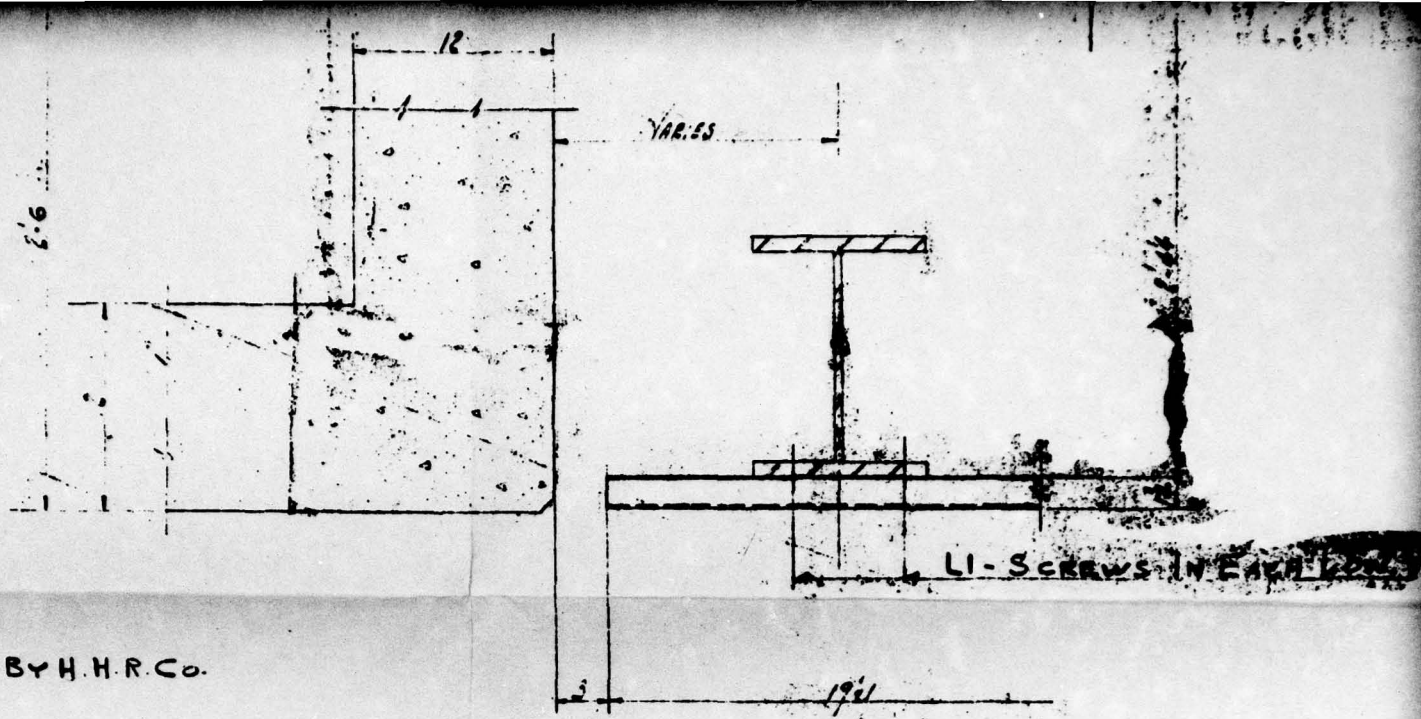


END
DATE
FILMED
10-79
DDC



MICROCOPY RESOLUTION TEST CHART

NATIONAL BUREAU OF STANDARDS-1963-A



SECTION $\frac{4}{2.1}$ AS SHOWN
 SECTION $\frac{5}{2.7}$ OPP. HAND

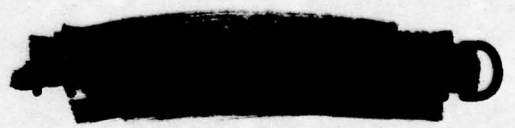
COLS
 NUT } NOT BY H.H.R.CO.

NOTES
 Co.
 LADS WITH #457
 ASP & CEMENT TO WITH #457
 AS WITH #457
 LADS WITH #455
 BY H.H. ROBERTSON CO.

GENERAL NOTES

1. D.U. - C. Y. BEAM - 18 GA. - BLACK - TREATED WITH
 USEABLE ANTI-SPICK

UNCLASSIFIED

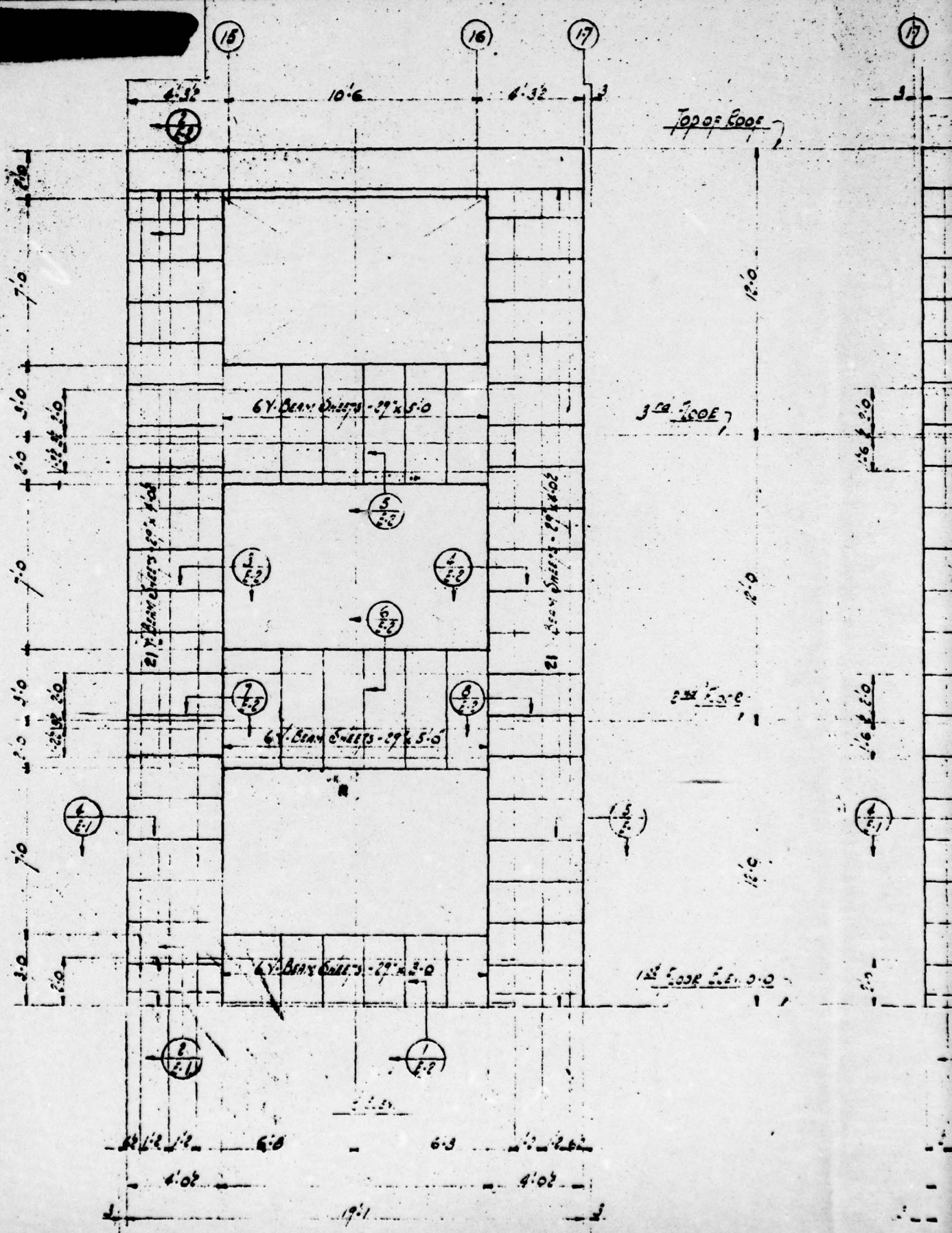


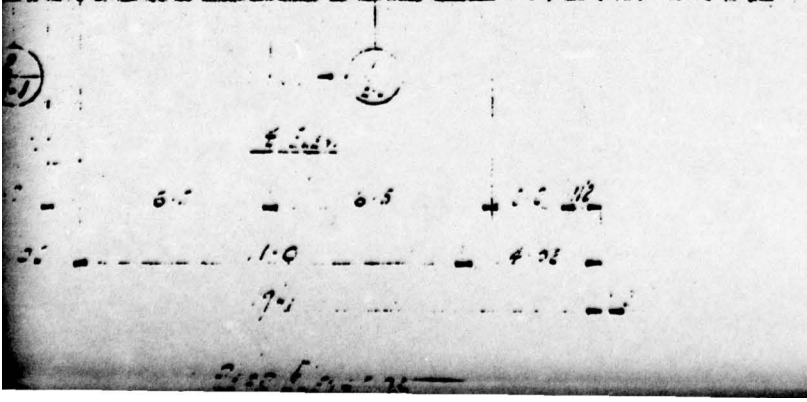
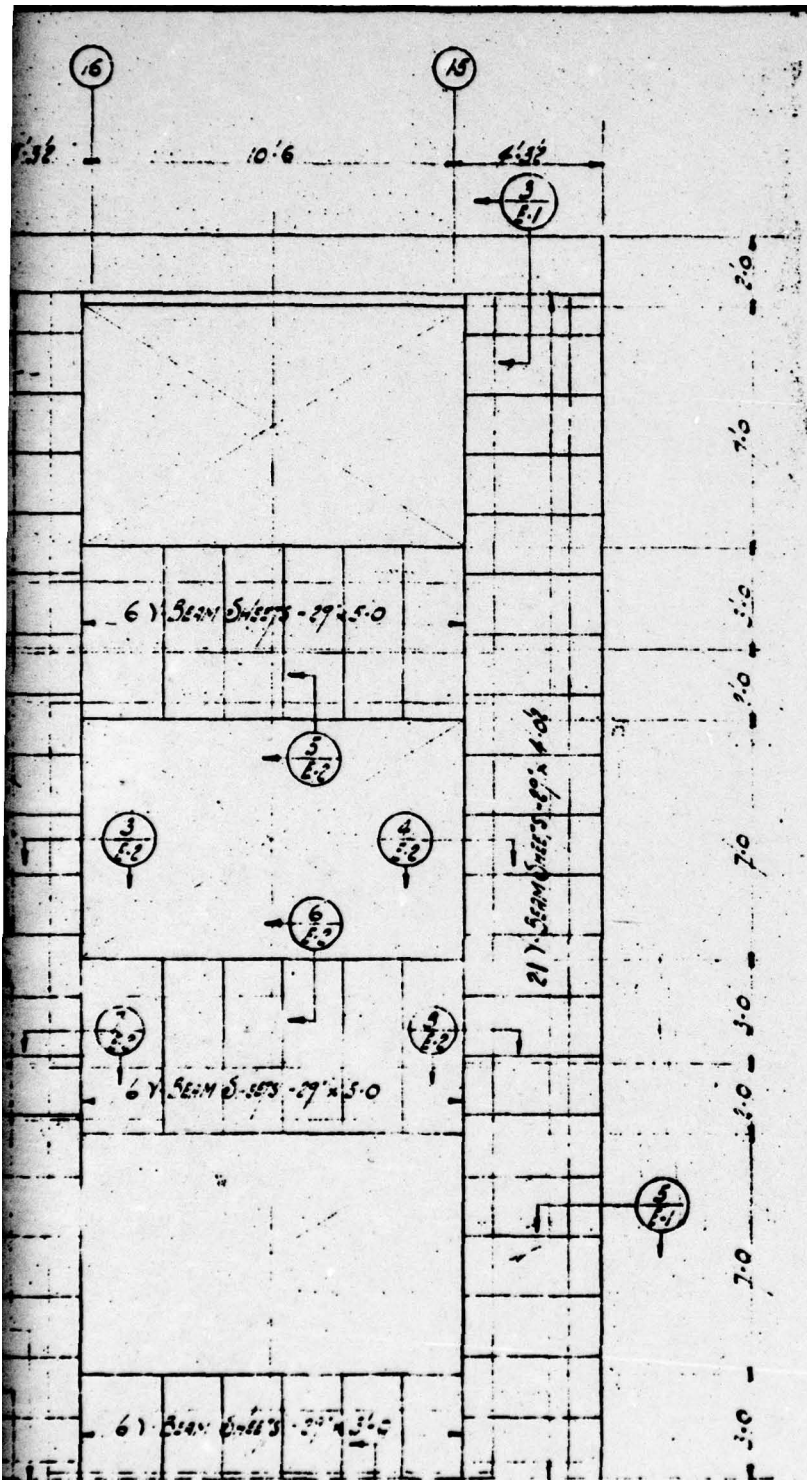
HH ROBERTSON
 PITTSBURGH 22, PA., U.S.A.

HOLMES & LAVER, INC.
 U.S. ATOMIC ENERGY COM.
 MULTIPLE STORY BUILDING

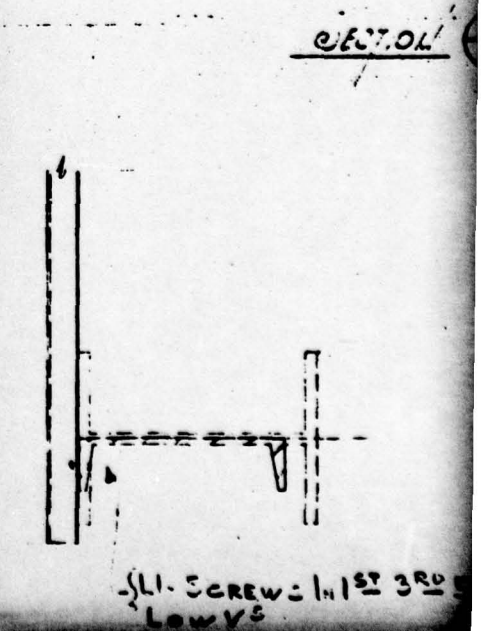
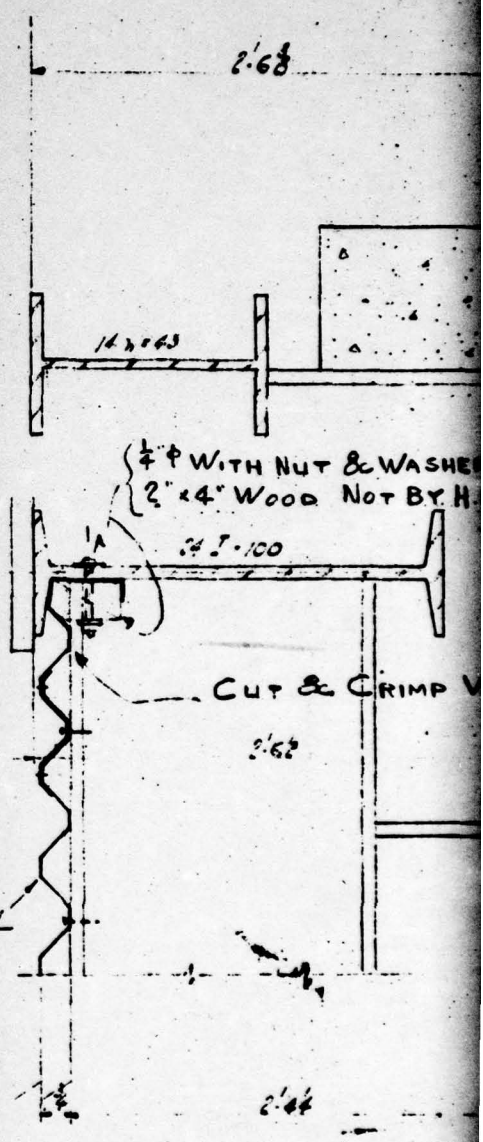
REVISIONS	DATE
9-27-50	7-15
10-12-50	

UNCLASSIFIED





16 - 2 of 4x6x8 - 12m - 12m
 17 - 2 of 4x6x8 - 12m - 12m



5/16" SCREW - 1 IN 3RD
 LOWE'S

ER @ 12" CTRS.
H.H.R.CO.

1'-0"

1'-0" 3/4"

RPM-7-BEAM

LI-IN 1ST 3RD ST LOW VS

Col.

1'-0" 0'-0"

V-BEAM IN FIELD.

SECTION 1/2

RECEIVED

2/2

RPM-7-BEAM

3" x 4" WOOD BLOCK NOT BY H.H.R.CO.

7' 0" IN FIELD

2nd 3rd FLOOR

FLASH

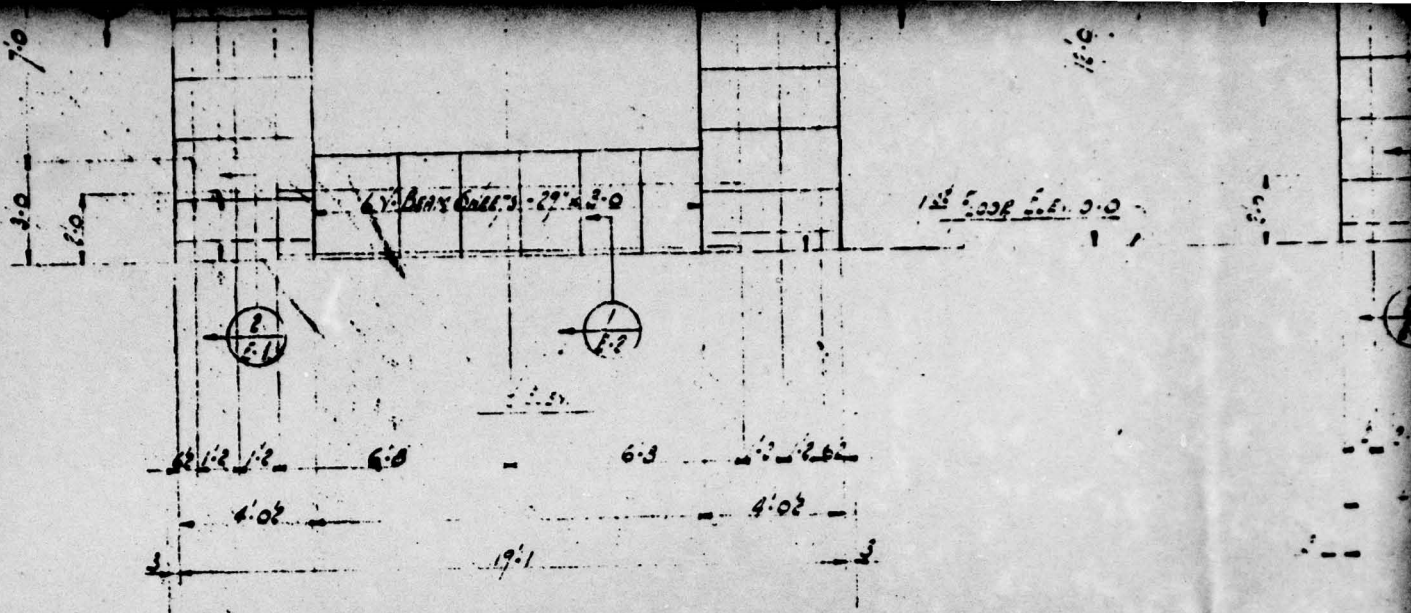
1'-0"

1'-0"

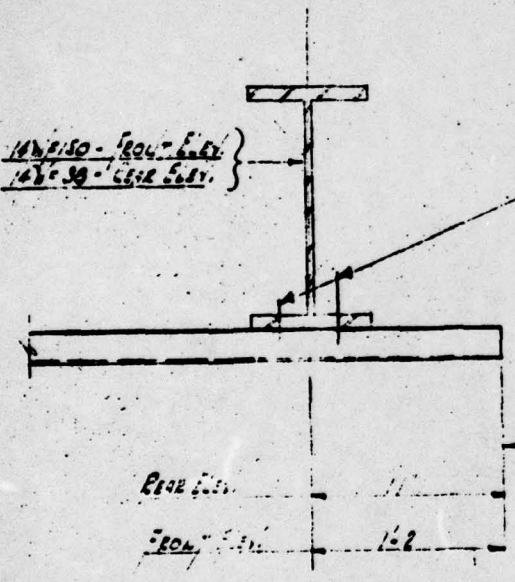
1'-0"

1'-0"

TH

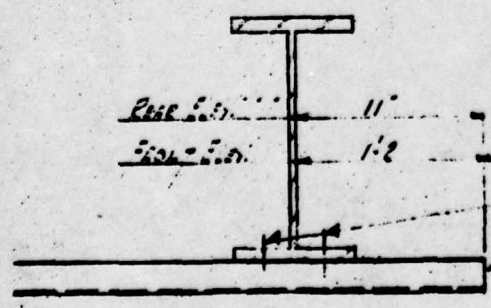


ELEVATION
 5-25 #6
 LINE 'A'



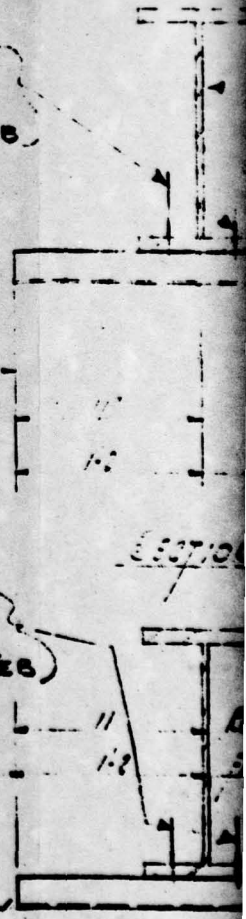
SECTION 7/2

FOR ALL VERTICAL POSTS
 LI-SCREWS IN 1ST, 3RD, 5TH LOW VS
 STAGGERED SPACED ABOUT 1/2 OF WEB



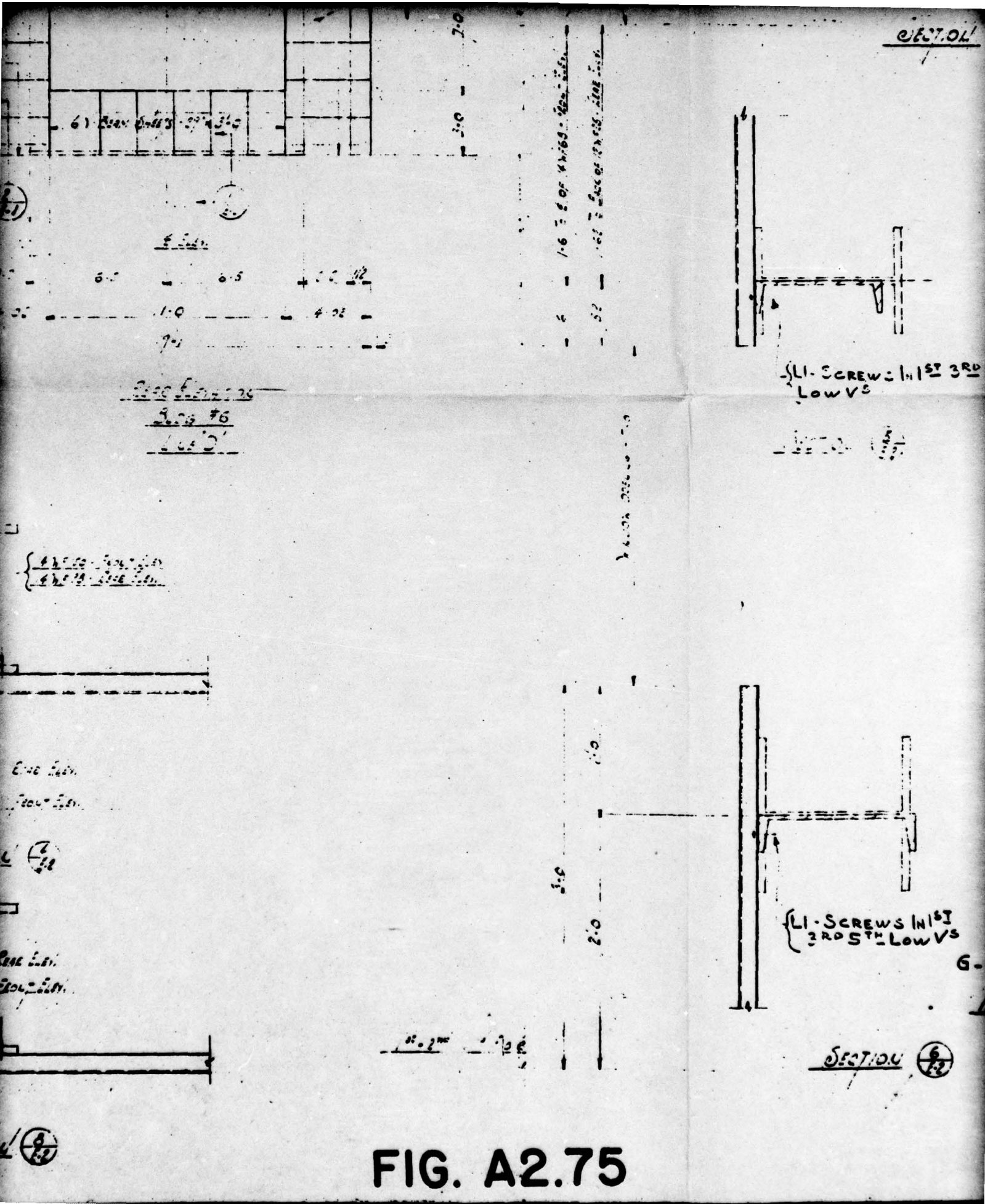
SECTION 7/3

FOR ALL VERTICAL POSTS
 LI-SCREWS IN 1ST, 3RD, 5TH LOW VS
 STAGGERED SPACED ABOUT 1/2 OF WEB



SECTION 7/4

SECTION 7/5



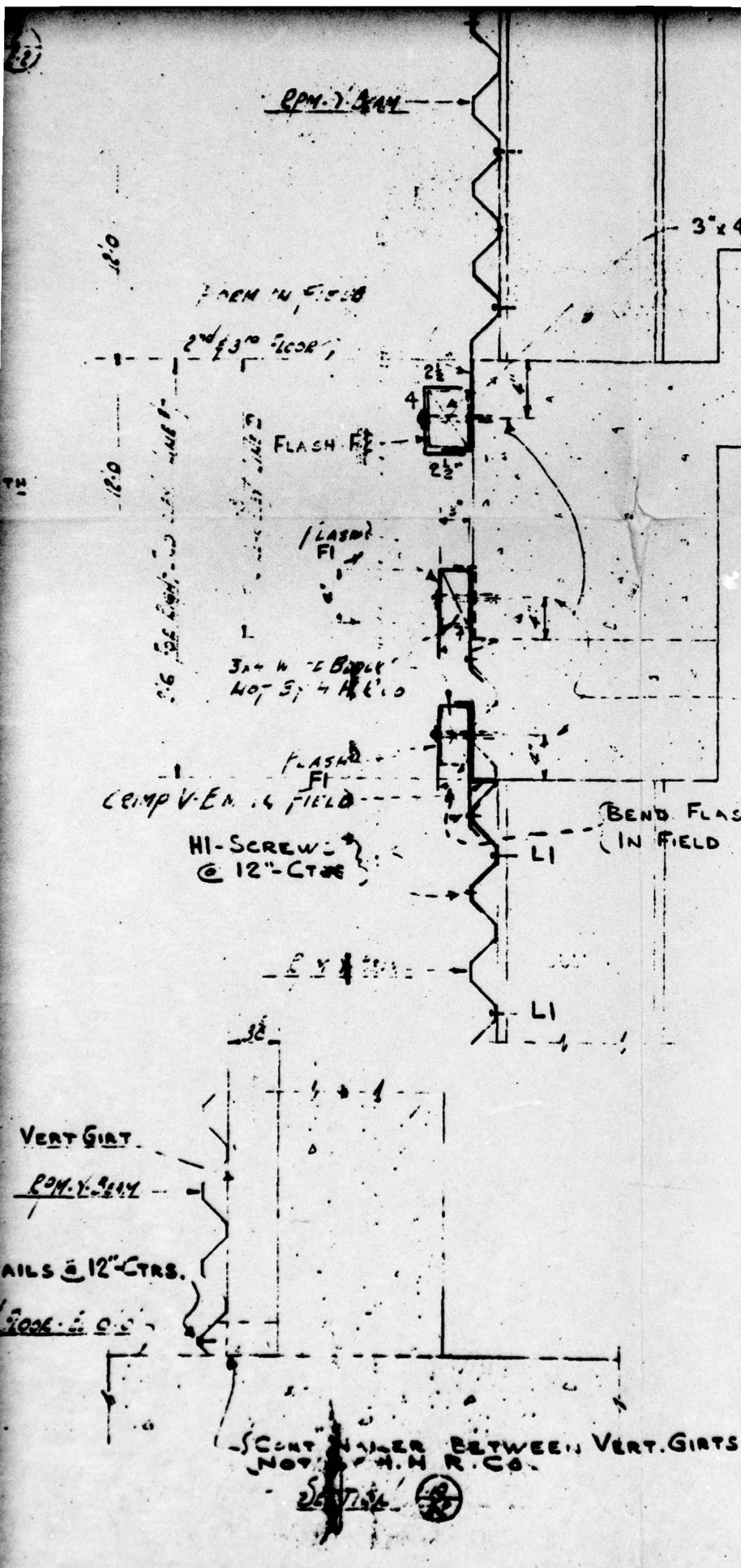
SECTION 1

LI. SCREWS IN 1ST 3RD Low Vs

LI. SCREWS IN 1ST 3RD 5TH Low Vs

SECTION 2

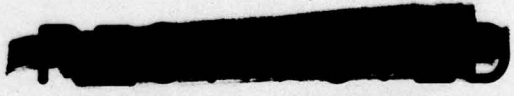
FIG. A2.75



3"x4" Wood Block NOT BY H.H.R.CO.

1/2" DRIVIT PINS WITH NUT & WASHER @ 12" - CTRS. NOT BY H.H.R.CO.

SECTION 9/12



UNCLASSIFIED

HH ROBERTSON CO
PITTSBURGH 22, PA., U. S. A.

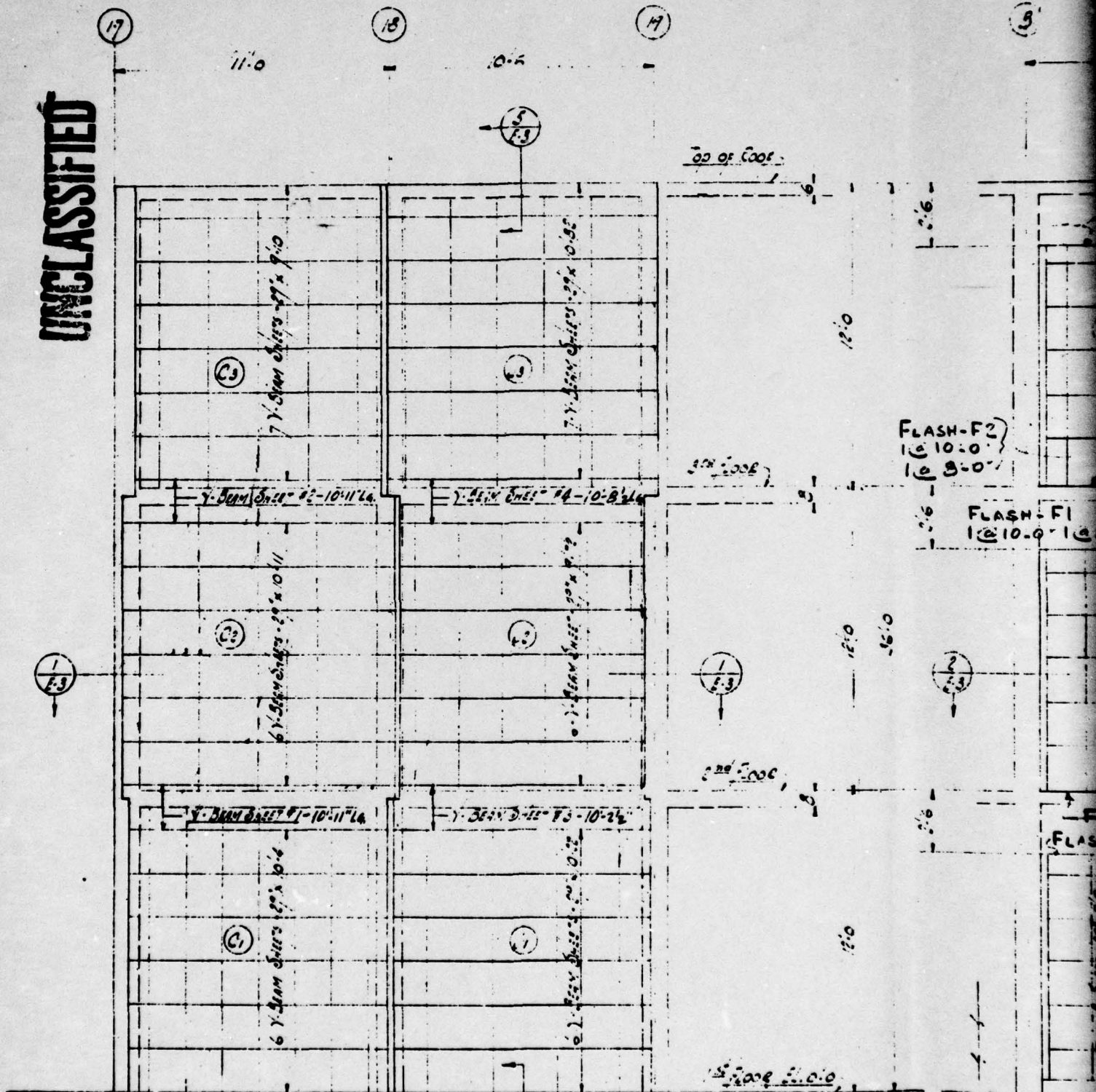
HOLMES & LAEYER, INC.
U.S. ATOMIC ENERGY COMMISSION
Multiple Store Bldg.

REVISIONS	DATE 7-18-50	DRAWING
9-27-50	SCALE NONE	PROJECT
10-12-50	OWN. BY J.E. CHASE BY P.M.	W. O. 66677-8
		ENGR. F. S.
CUST. ORDER No. 4828		CUST. REG. No.

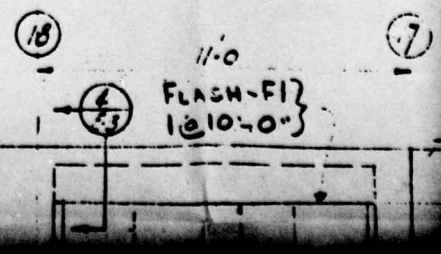
SCREW NUTS BETWEEN VERT. GIRTS NOT BY H.H.R.CO.

SECTION 9/12

UNCLASSIFIED



PARTIAL FRONT ELEVATION
Bldg. #7



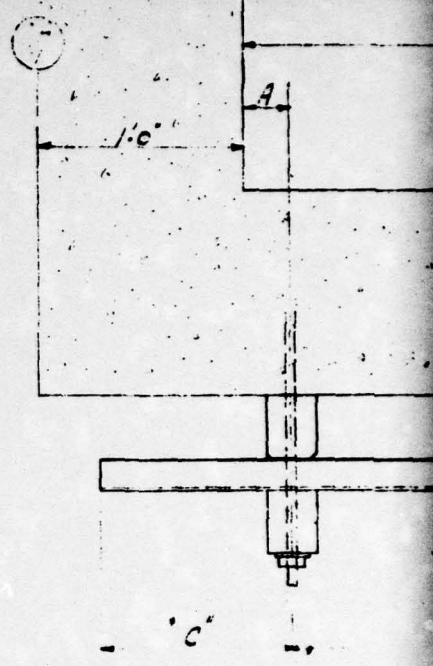
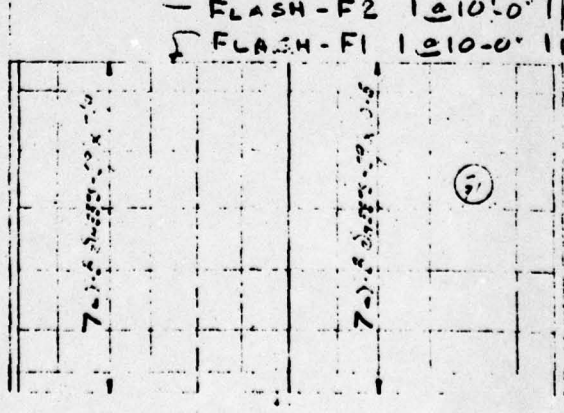
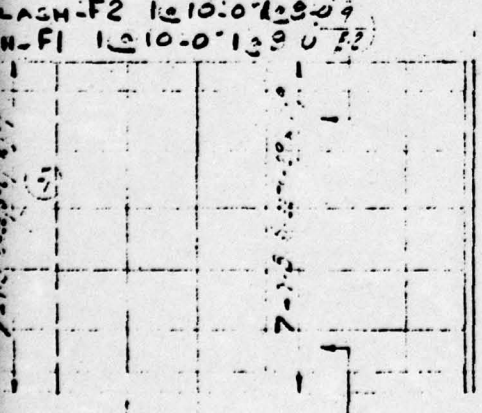
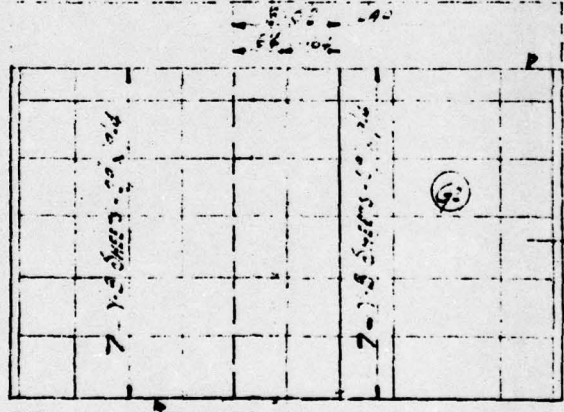
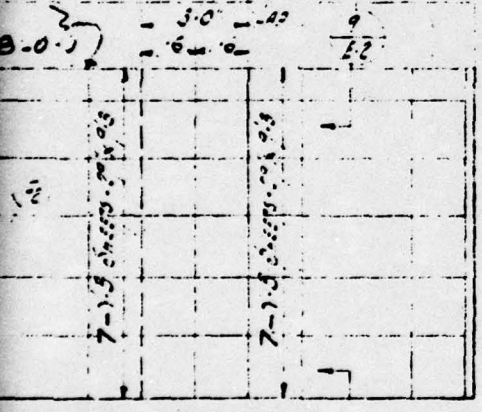
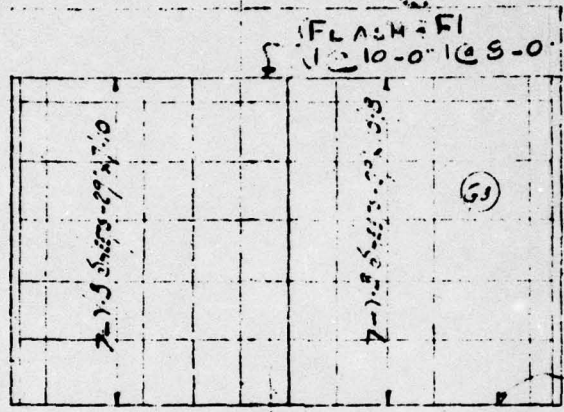
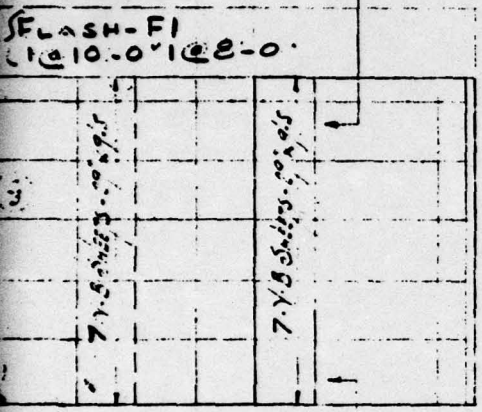
2

17'-0" 17'-6"

- 3'-4" - 40"

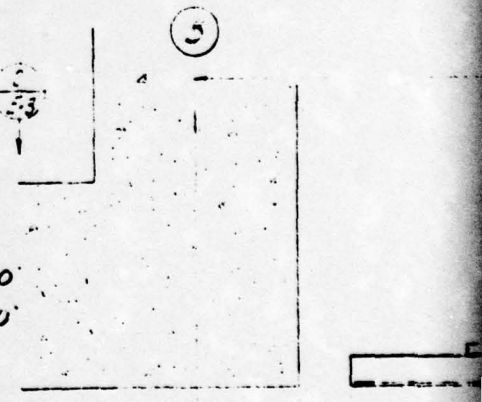
- 1'-8" - 18"

4
33



FLASH-F2
1 @ 10'-0" @ 9'-0"

FLASH-F1
1 @ 10'-0" @ 9'-0"



10'-0" 10'-0"

4'-0" 4'-0"

2
51

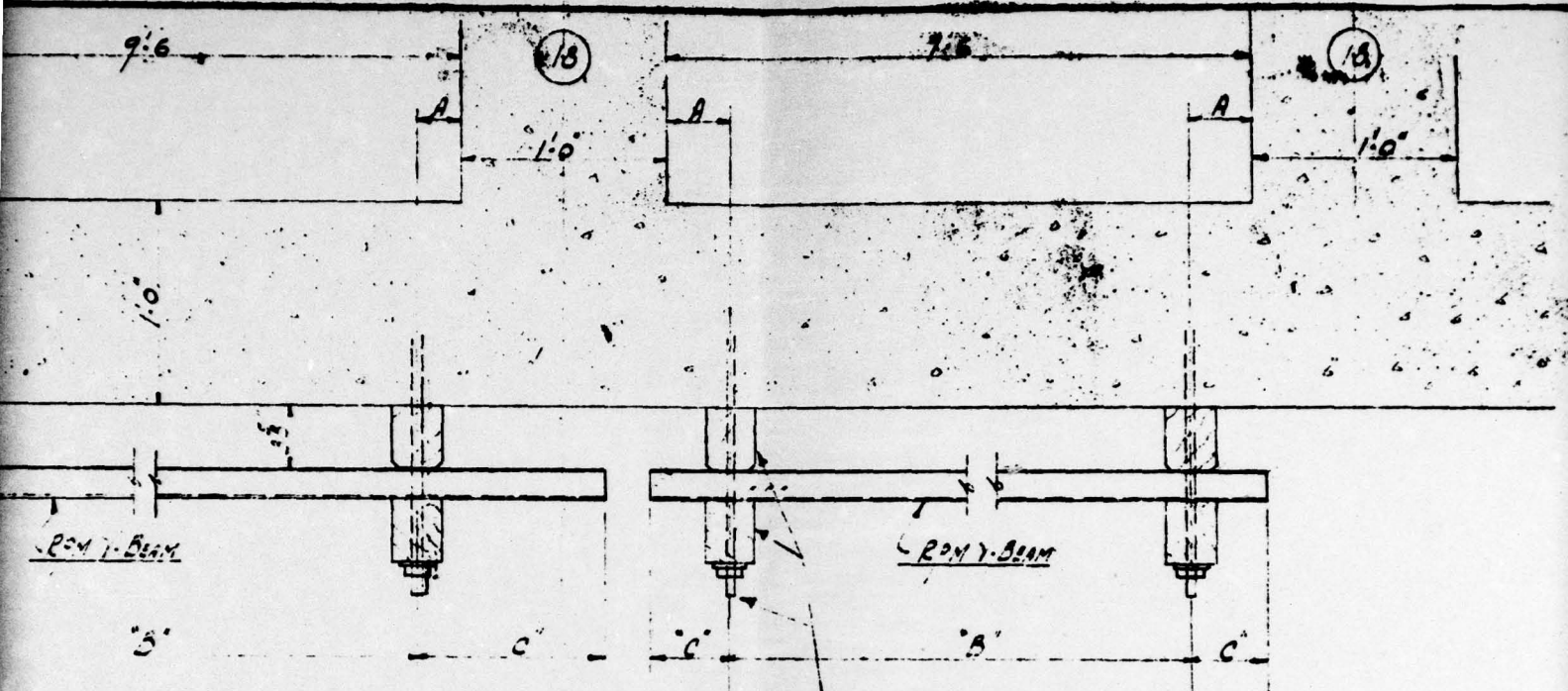
2'-0" 2'-0"

2'-0" 2'-0"

2'-0" 2'-0"

15

3

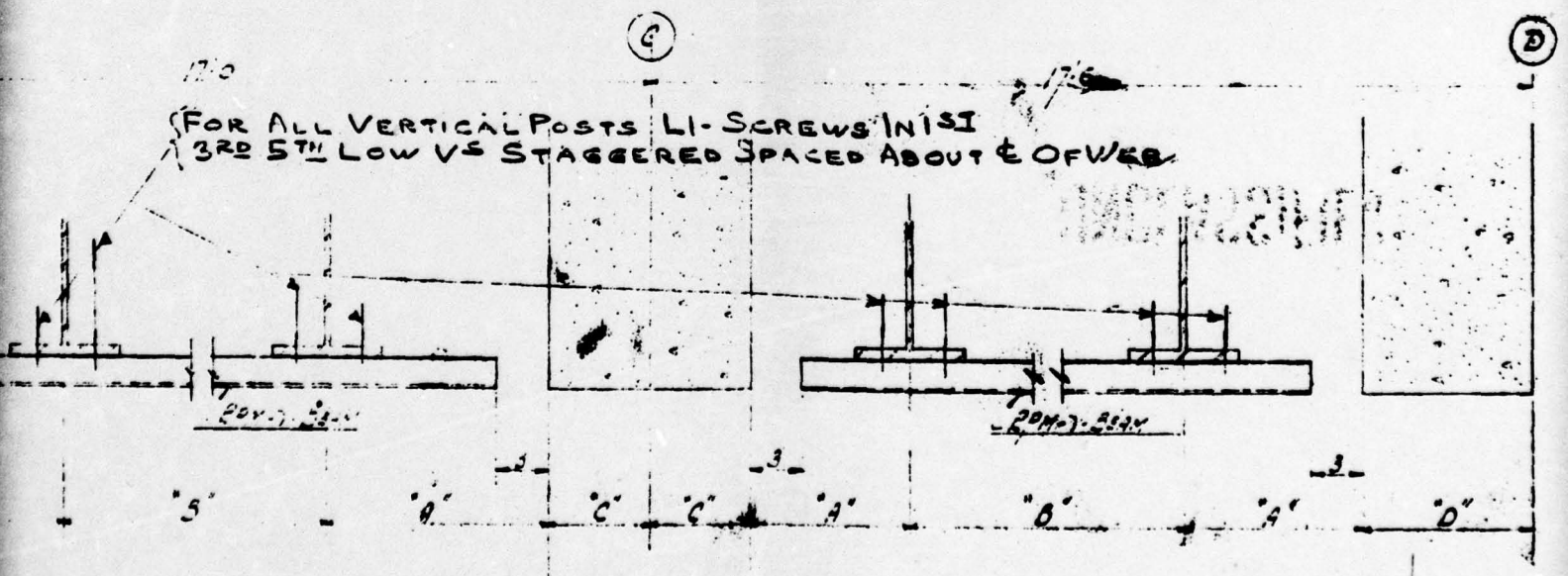


SECTION 26

{ CONT. WOOD & ANCHOR BOLTS
NOT BY H.H.R. CO.

SEE DIMENSIONS A-B-C-D SEE PAGES 106 & 107

PAGE 107



SECTION 27
FOR DIMENSIONS A-B-C-D SEE PAGES 106 & 107

11'-0"

{ FOR ALL VERTICAL POSTS
LI-SCREWS IN 1ST 3RD 5TH LOW VS
STAGGERED SPACED ABOUT E OF WEB

17

PARTIAL FRONT ELEVATION
Bldg #7
LINE A

TABLE #1

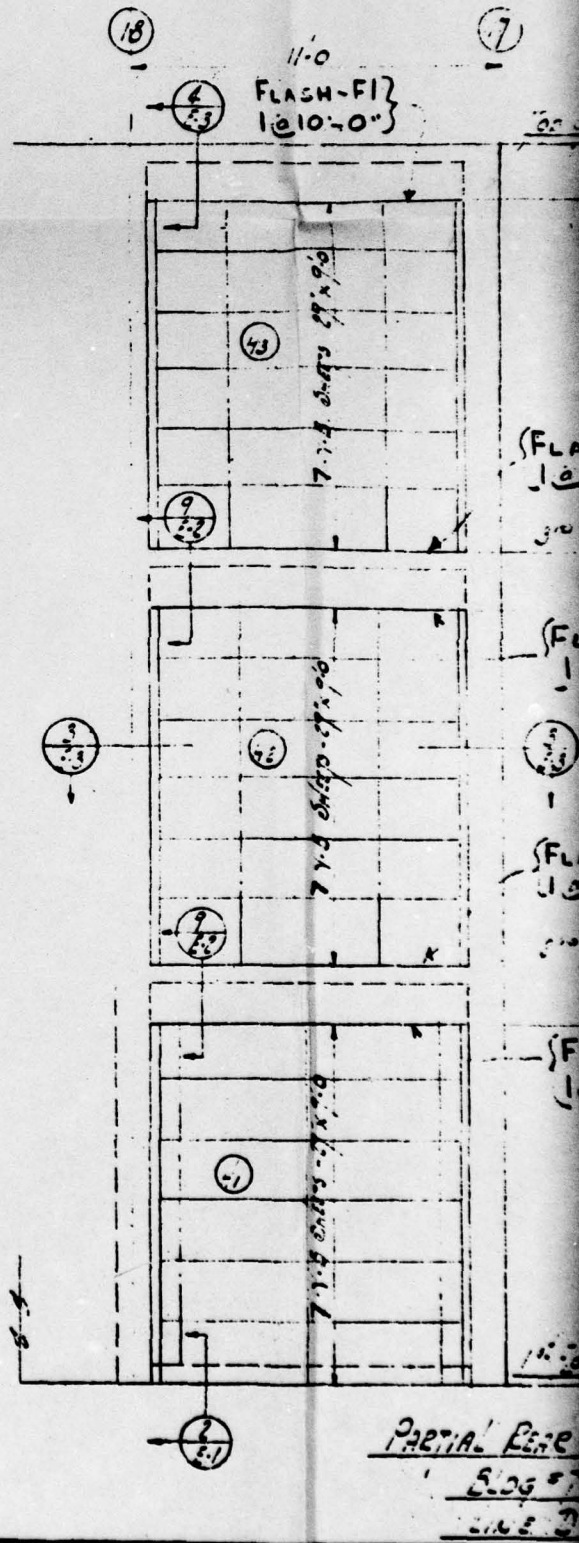
LOCATION	G.R. SIZE	G.R. SPACING	A	B	C
Panel - C3	1000-343	2'-0" @	9'	8'-0"	11'
do C2	do	2'-0" @	0	9'-6"	8'
do C1	do	1'-5 1/2" @	6'	3'-9"	9'
do J3	do	1'-10 1/2" @	3'	9'-4 1/2"	8'
do J2	do	1'-8 1/2" @	5'	8'-6 1/2"	6'
do J1	do	2'-6 1/2" @	11'	7'-7"	13'

TABLE #2

LOCATION	G.R. SIZE	G.R. SPACING	A	B	C	D
Panel - G3	1275-57	2'-5 1/2" @	1'-1"	13'-0"	6'	
do G2	do	3'-1" @	1'-0"	12'-6"	6'	
do G1	1045-57	4'-0" @	2'-0"	12'-0"	6'	
do G3	1425-30	2'-10" @	1'-0"	14'-2"	6'	10'
do G2	1225-57	3'-1" @	1'-0 1/2"	10'-2"	6'	10'
do G1	1475-30	2'-8" @	1'-2 1/2"	13'-4"	6'	10'

TABLE #3

LOCATION	G.R. SIZE	G.R. SPACING	A	B
Panel - H3	1281-9	4'-0" @	2'-0 1/2"	2'-0"
do H2	1281-9	4'-3 1/2" @	2'-7 1/2"	4'-8"
do H1	do	3'-11" @	10'	7'-0"



PARTIAL REAR
Bldg #7
LINE B

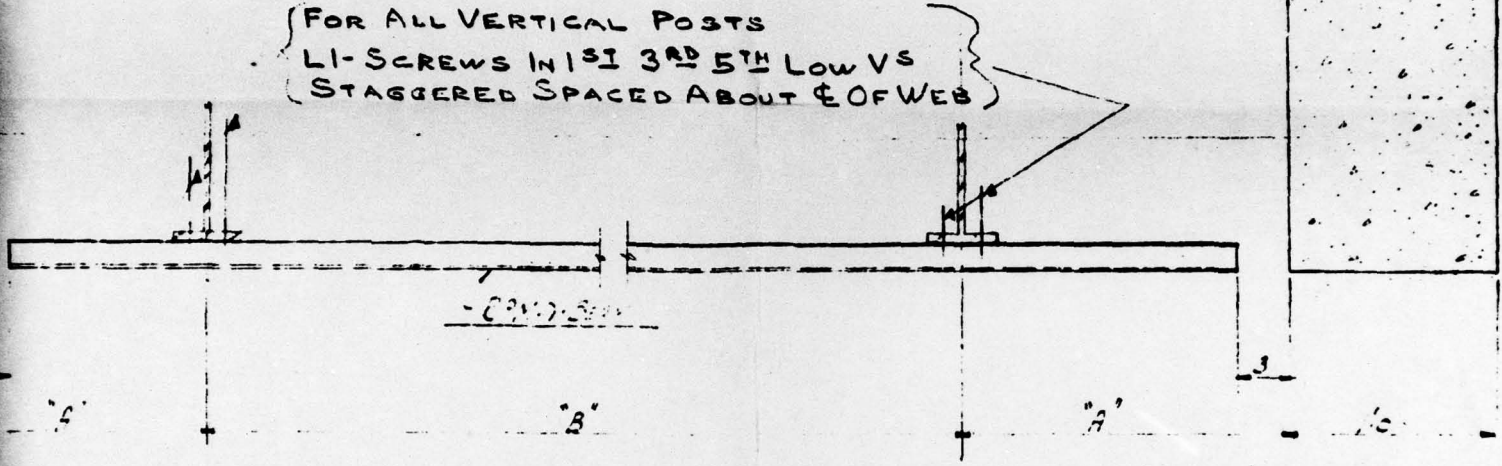


SECTION $\frac{3}{2}$
 FOR DIMENSIONS A-B-C-D SEE TABLE 2

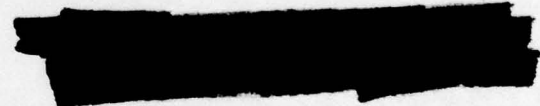
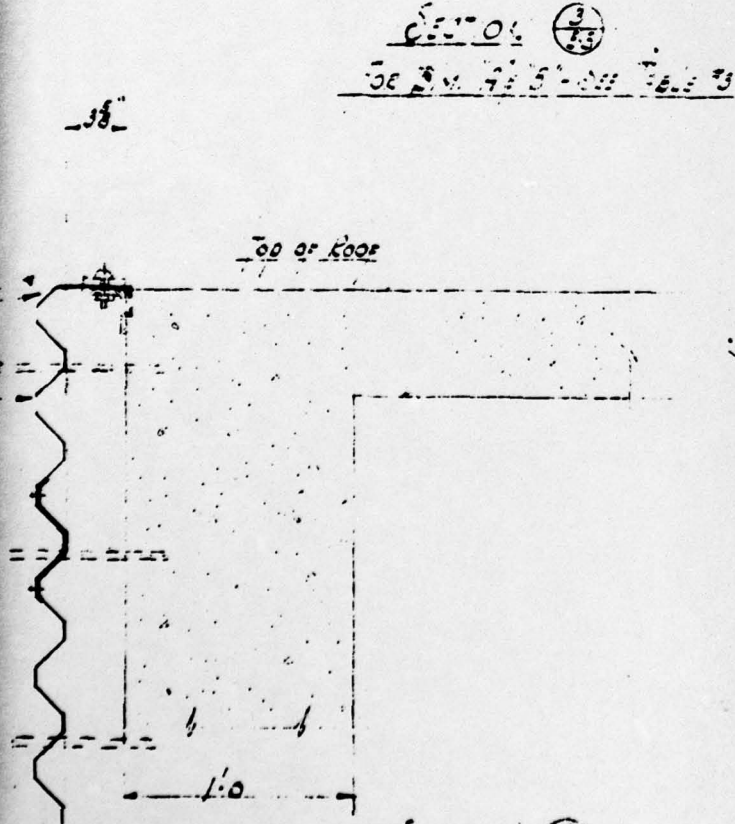
17

11'-0"

FOR ALL VERTICAL POSTS
 LI-SCREWS IN 1ST 3RD 5TH LOW VS
 STAGGERED SPACED ABOUT $\frac{1}{2}$ OF WEB



SECTION $\frac{3}{2}$
 SEE DIM. 4-5-5'-0" TABLE 3

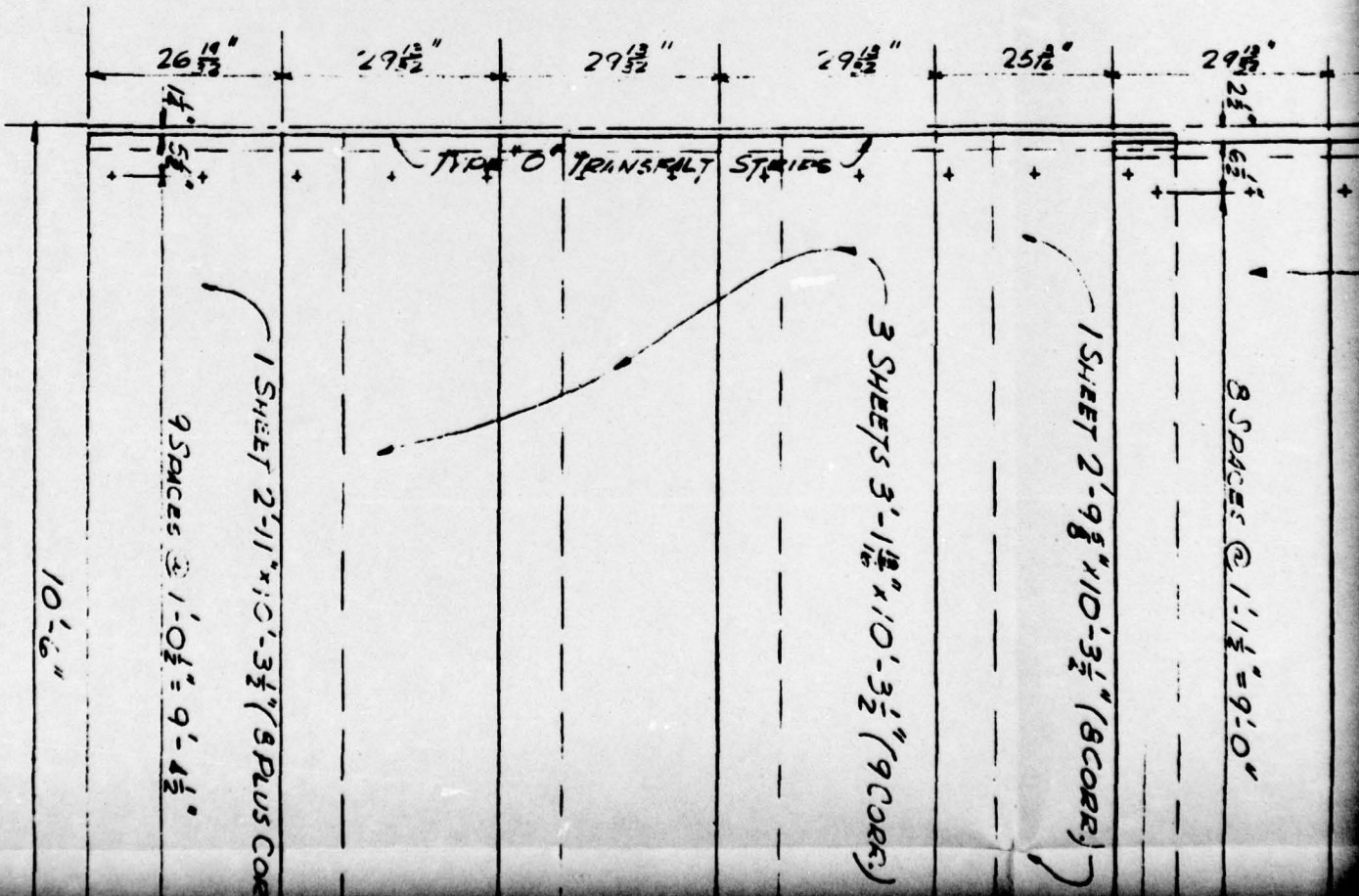
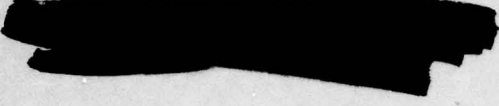


FOR GENERAL INFORMATION CONSULT THE
UNCLASSIFIED

HH ROBERTSON CO <small>BUILDING PRODUCTS</small>		
PITTSBURGH 22, PA., U. S. A.		
HOLMES & LAEYER, INC.		
U. S. ATOMIC ENERGY COMMISSION		
MULTIPLE ENERGY BLDG.		
REVISIONS 9-27-50 10-12-50	DATE 7-18-50 SCALE NONE DWN. BY H.E.L. CKD. BY PSH	DRAWING PROJECT W. O. 6447-R SHEET 2-5 OF
CUST. ORDER NO. 4328		CUST. REQ. NO.

SECTION $\frac{3}{2}$

UNCLASSIFIED



2

29 1/2" 29 1/2" 29 1/2" 25 1/2" 29 1/2" 29 1/2" 29 1/2" 2

TYPE "O" TRANSALY STRIPS

TYPE "O" TRANSALY STRIPS

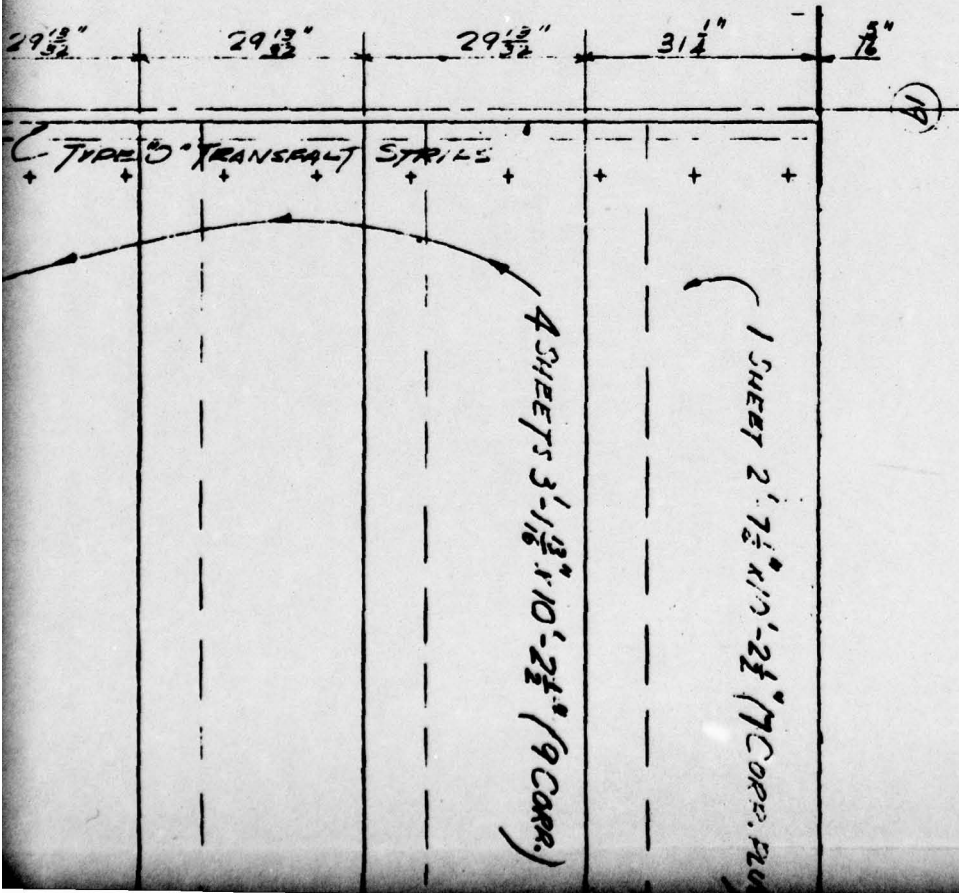
1 SHEETS 3'-1 1/2" x 10'-1" (CORE)

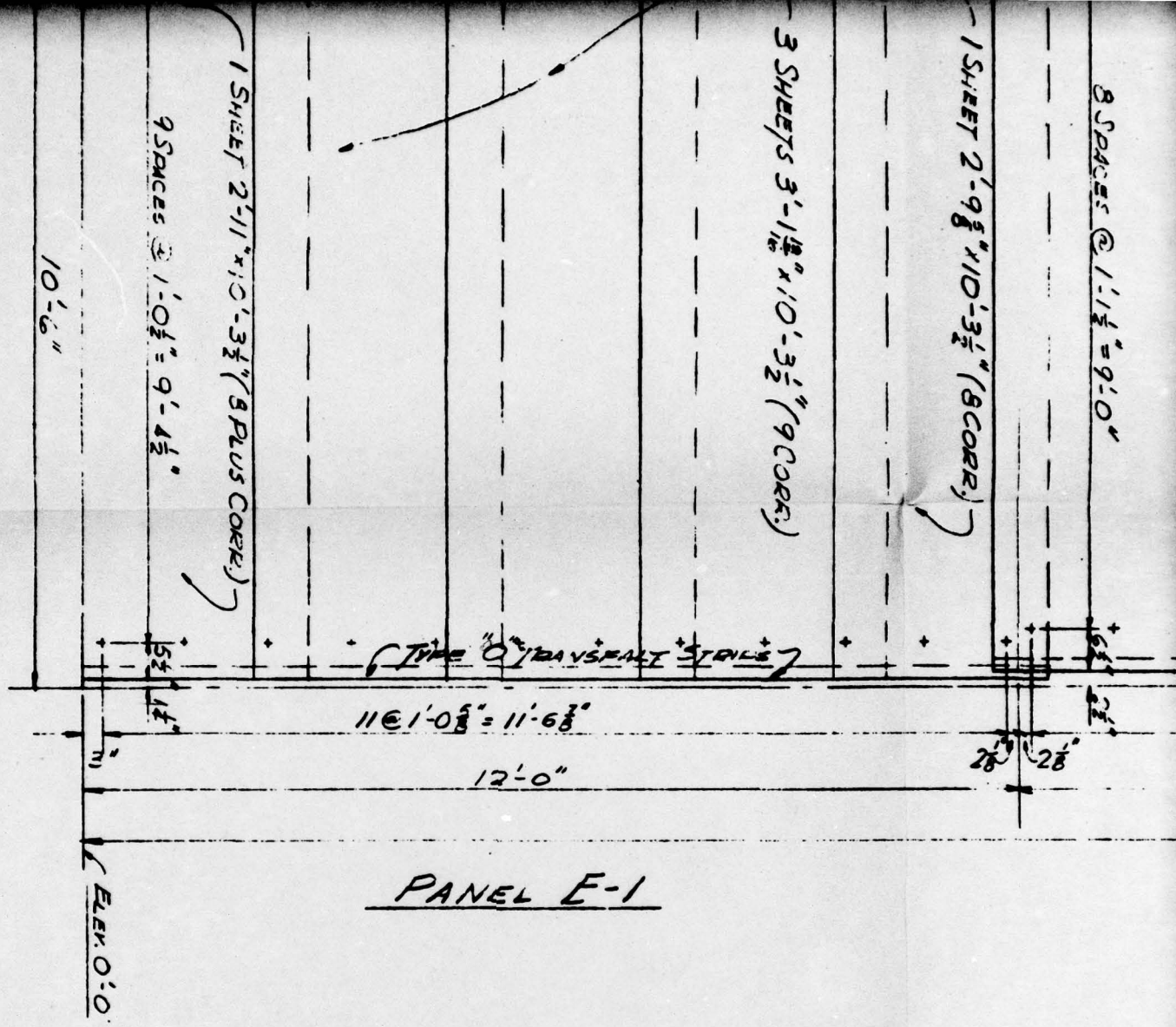
1 SHEET 2'-9 5/8" x 10'-1" (CORE)

7 SPACES @ 1'-3 1/4" = 9'-0 1/2"

3

PAGE 108





PANEL E-1

FIG. A

H

4 SHEETS 3'-11 1/8" x 10'-1" (9 CORRS)

1 SHEET 2'-9 5/8" x 10'-1" (1 CORRS)

7 SPACES @ 1'-3 1/2" = 9'-0 1/2"

TYPE O TRANSFILT STRIPS

TYPE O TRANSFILT STRIPS

11 @ 1'-0 3/8" = 11'-6 3/8"

12'-0"

36'-0"

1/2" 28" 28"

11 @ 1'-0 3/8" = 11'-6 3/8"

12'-0"

PANEL E-2

PANEL E-3

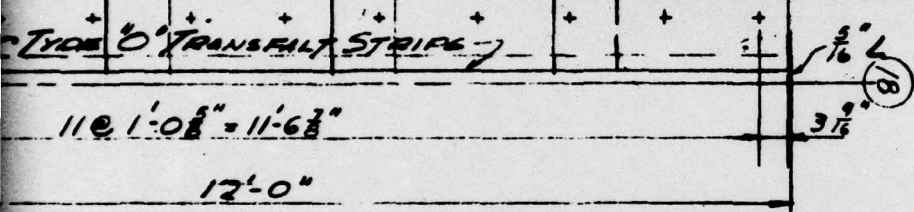
NOTE
ALL SHEETS 4.2"
ALL HOLES FOR FASTENERS
TO BE DRILLED IN FIELD
ALL SHEETS TO BE CUT TO
EXPOSED SURFACE DIMEN
DIMENSIONS FROM TABLE
CONSOLIDATED WESTER

HOLMES & NARVER	
UN	
7-85	REV. NO. APPROVED BY
8-150	THIS DRAWING SUPERSEDES
NO.	DATE
	REVISIONS

A2.77

4 SHEETS 3'-1 1/2" x 10'-2 1/2" (9 CORR.)

1 SHEET 2'-7 1/2" x 10'-2 1/2" (7 CORR. PLUS)



PANEL E-3

APPROVED
 SEP 25 1950
 DATE _____
 BY *RC*
 AMMANN AND WHITNEY
 CONSULTING ENGINEERS

NOTE
 ALL SHEETS 4.2" JOHNS MANVILLE CORRUGATED TRANSITE
 ALL HOLES FOR FASTENING SHEETS AND TRANSALT STRIPS
 TO BE DRILLED IN FIELD.

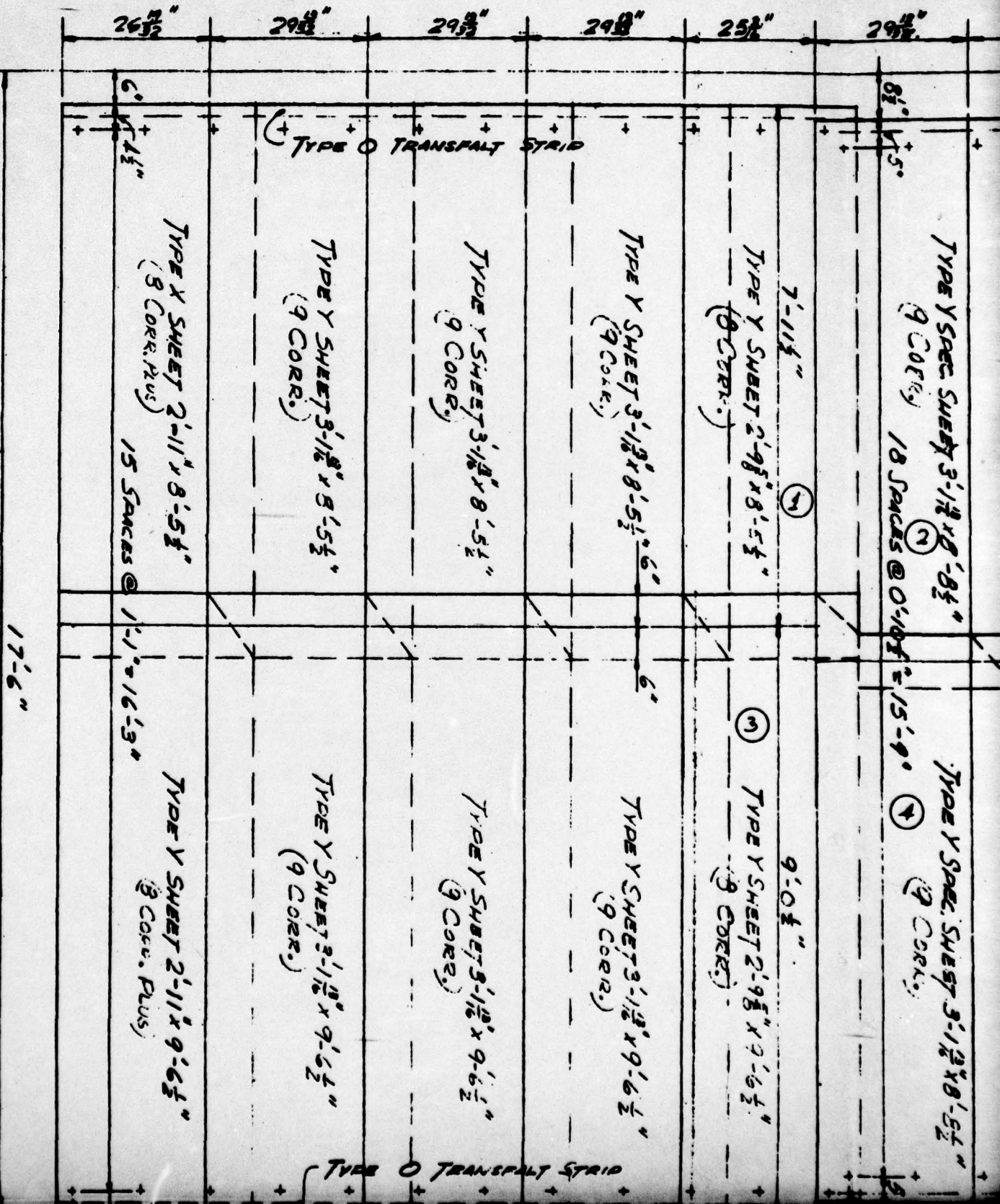
ALL SHEETS TO BE CUT TO PROVIDE 2 CORRELATION LAP LEAVING
 EXPOSED SURFACE DIMENSION AS INDICATED.

DIMENSIONS FROM TABLE 2 SHEET 5 DRUG. NO. 60-09-06-6
 CONSOLIDATED WESTERN STEEL CORP. ORDER 48357 SHEET B5



VOLMES & NARVER	TESTED E-1: E-2: E-3			
	No. 7			
DEPARTMENT OF THE ARMY				
SPECIFICATION FOR CONT. W49-129-ENG-148				
WESTERN ASBESTOS CO.				
ENGINEERS & CONTRACTORS				
675 TOWNSEND STREET SAN FRANCISCO, CALIFORNIA				
SCALE	DRAWN	APPROVED	DATE	SHEET NO.
1/2" = 1'-0"	DCE	<i>RC</i>	8-29-50	50-70-A

UNCLASSIFIED



11.6.4.05

29 1/2" 29 1/2" 29 1/2" 29 1/2" 29 1/2" 29 1/2" 29 1/2" 29 1/2"

(9 CORE)

TYPE Y SHEET 3'-1 1/2" x 8'-5 1/2"
(9 CORE)

TYPE Y SHEET 3'-1 1/2" x 9'-2 1/4"
(9 CORE)

TYPE Y SHEET 3'-1 1/2" x 8'-5 1/2"
(9 CORE)

TYPE Y SHEET 3'-1 1/2" x 9'-2 1/4"
(9 CORE)

TYPE X SPEC. SHEET 3'-1 1/2" x 8'-5 3/4"
(9 CORE) 23 SPACES @ 0'-8 1/2" x 16'-3 1/2"

TYPE Y SPEC. 3'-1 1/2" x 9'-2 1/4"
(9 CORE)

8'-3 1/4"

8'-3 1/4"

TYPE Y SHEET 2'-9 1/8" x 8'-5 1/2"
(9 CORE)

TYPE X SHEET 2'-9 1/8" x 8'-5 1/2"
(9 CORE)

TYPE Y SHEET 3'-1 1/2" x 8'-0 1/2"
(9 CORE)

TYPE Y SHEET 3'-1 1/2" x 8'-0 1/2"
(9 CORE)

TYPE Y SHEET 3'-1 1/2" x 8'-0 1/2"
(9 CORE)

TYPE Y SHEET 3'-1 1/2" x 8'-0 1/2"
(9 CORE)

TYPE Y SHEET 3'-1 1/2" x 8'-0 1/2"
(9 CORE)

TYPE Y SHEET 3'-1 1/2" x 8'-0 1/2"
(9 CORE)

TYPE O TRANSFALY STRIP

TYPE O TRANSFALY STRIP

TYPE O TRANSFALY STRIP

TYPE O TRANSFALY STRIP

29 1/2" 29 1/2" 31 1/2" 1 1/2"

(A)

TRANSFALY STRIP

TYPE Y SHEET 3'-1 1/8" x 8'-5 1/4"
(9 CORES)

TYPE Y SHEET 3'-1 1/8" x 8'-5 1/4"
(9 CORES)

8'-1 1/2"
TYPE Y SHEET 2'-7 1/4" x 8'-5 1/4"
(7 CORES PLUS)

4"

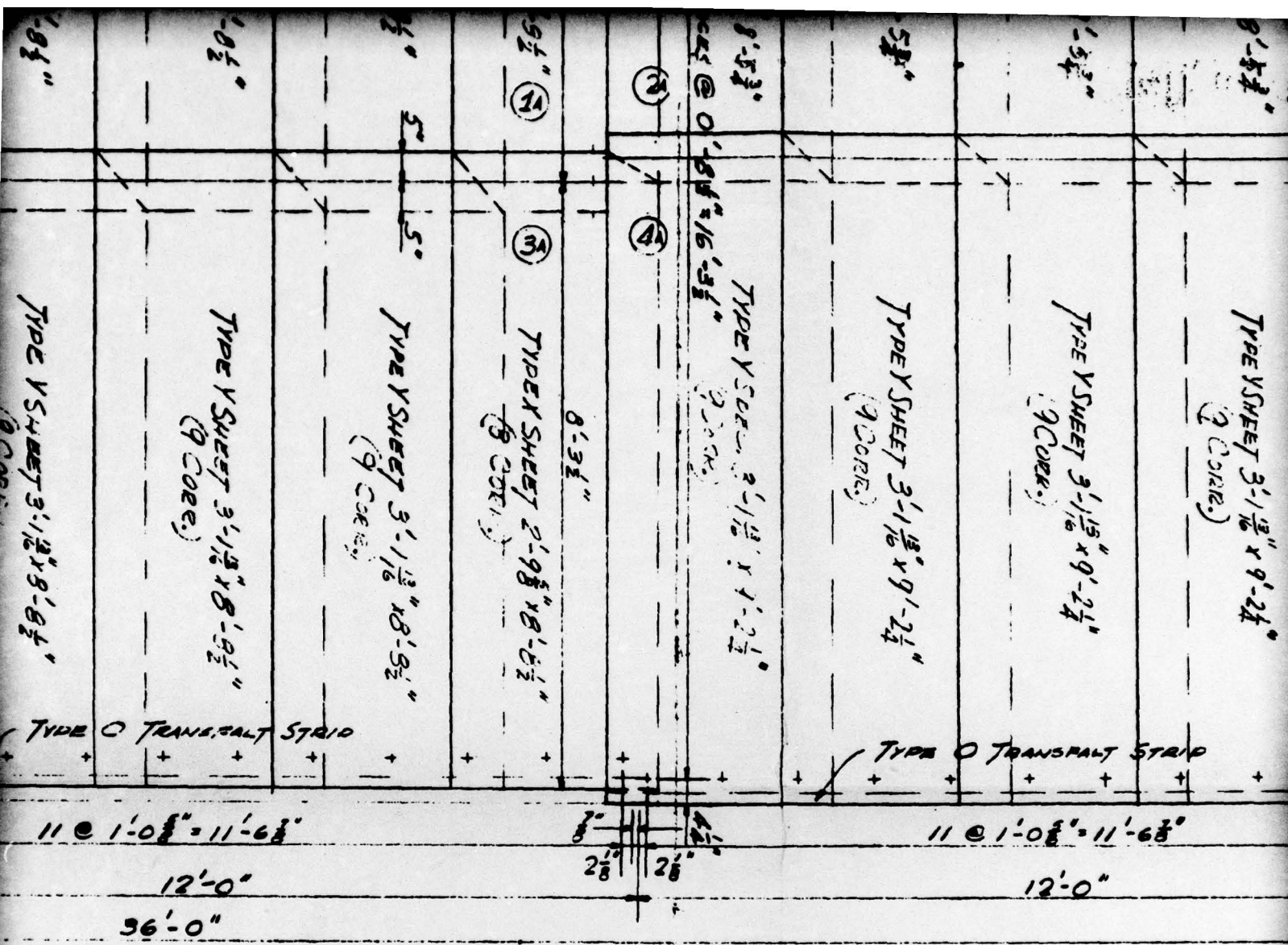
4"

TYPE Y SHEET 3'-1 1/8" x 9'-2 1/4"
(9 CORES)

TYPE Y SHEET 3'-1 1/8" x 9'-2 1/4"
(9 CORES)

8'-10 1/4"
TYPE Y SHEET 2'-7 1/4" x 9'-2 1/4"
(7 CORES PLUS)

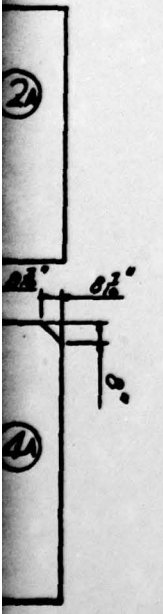
TRANSFALY STRIP



PANEL A-2

PANEL A-3

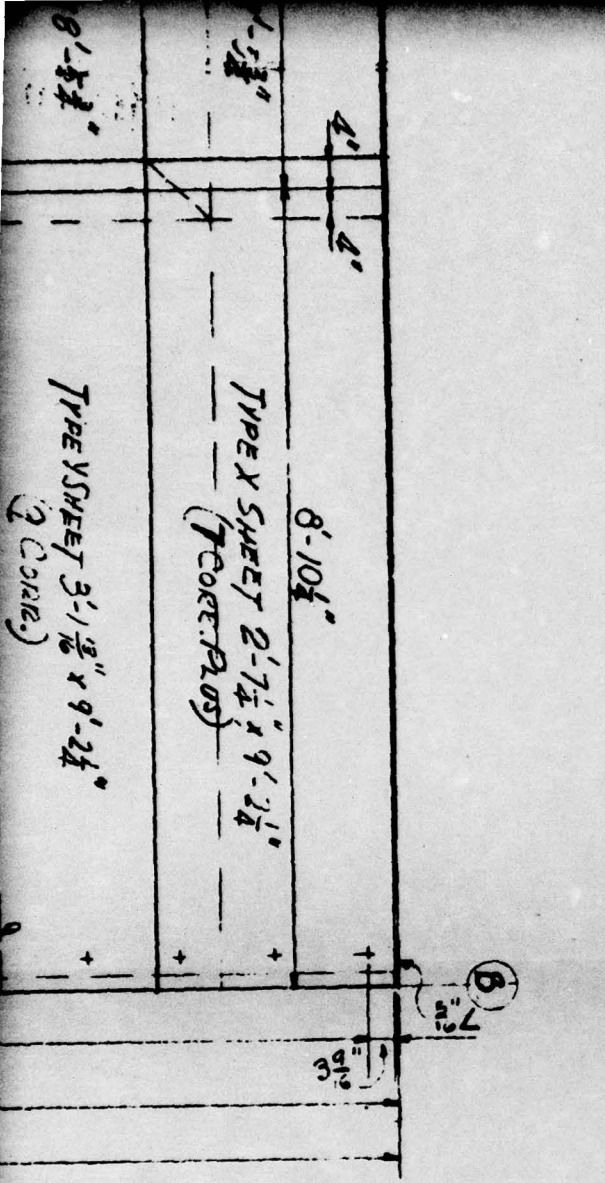
NOTE:
 ALL SHEETS 4.2' JOHN'S MAN
 ALL HOLES FOR FASTENING SHEETS
 TO BE DRILLED IN FIELD.
 DIMENSIONS FROM TABLE 1 SHOWN
 CONSOLIDATED WESTERN STEEL
 ALL SHEETS TO BE CUT TO PRO
 LEAVING EXPOSED SURFACE DIM



HOLMES & NARVER		UNCLASS
SPECIFIC		
WEST		675 TOWNSEND
A 9-13-51	REV. FOR HAWKINS DRAWING	DATE
A 8-11-51	THIS DRAWING SUPERSEDES DRAWING No. 80-62-2	1-1-0

A2.78

5

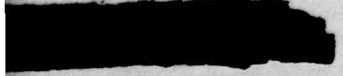


APPROVED
 DATE SEP 25 1950
 BY EC
 AMMANN AND WHITNEY

MAN'S MANYVILLE CORRUGATED SHEETS AND TRANSFALTS STRIPS
 ELD.

1 SHEET 5' DIA. NO. 60-27-06
 STEEL CORP. ORDER 4937 SHEET 5.

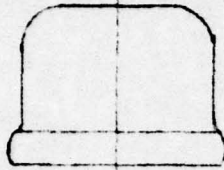
TO PROVIDE 2 CORRUGATION LAPS
 DIMENSIONS AS INDICATED.



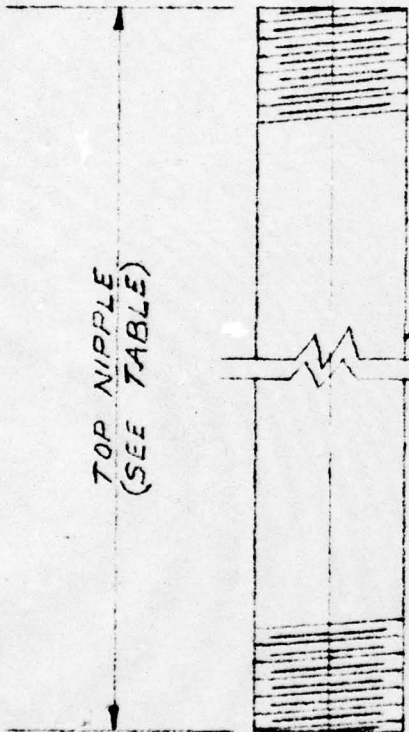
CLASSIFIED
 SPECIFICATION FOR CONT. IN 60-27-06
WESTERN ASBESTOS CO.
 ENGINEERS & CONTRACTORS
 675 TOWNSEND STREET
 SAN FRANCISCO, CALIFORNIA
 60-27-06

RECLASSIFIED

UNCLASSIFIED



$\frac{1}{2}$ " PIPE CAP



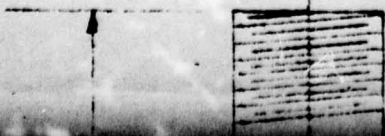
$\frac{1}{2}$ " STD BLACK PIPE NIPPLE, THREAD EACH END

NOTE

ALL MOUNTS THIS TYPE MODIFIED IN THE FIELD TO PROVIDE $1\frac{1}{2}$ " DIA. NIPPLE



1 " x $3\frac{1}{2}$ " ϕ STD MALLEABLE IRON FLOOR FLANGE

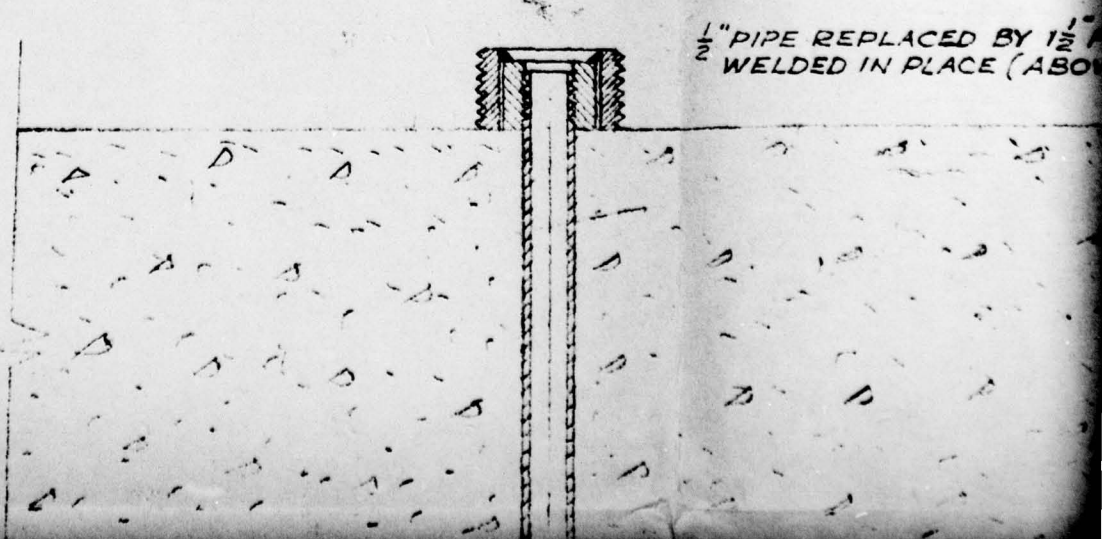


$\frac{1}{2}$ " STD BLACK PIPE

h

2

TOP NIPPLE	BOTTOM PIPE				
	0"	12"	24"	36"	48"
3"	5000 a	5000 k	5000 u	5000 E	5000 O
4"	" b	" l	" v	" F	" P
5"	" c	" m	" w	" G	" Q
6"	" d	" n	" x	" H	" R
7"	" e	" o	" y	" I	" S
8"	" f	" p	" z	" J	" T
9"	" g	" q	" A	" K	" U
10"	" h	" r	" B	" L	" V
11"	" i	" s	" C	" M	" W
12"	" j	" t	" D	" N	" X



1/2" PIPE REPLACED BY 1 1/2"
WELDED IN PLACE (ABOVE)

1

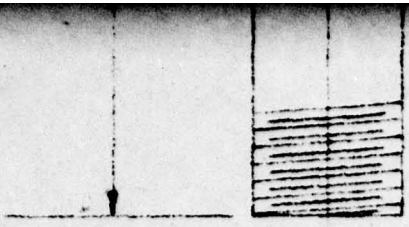
3

PAGE 110

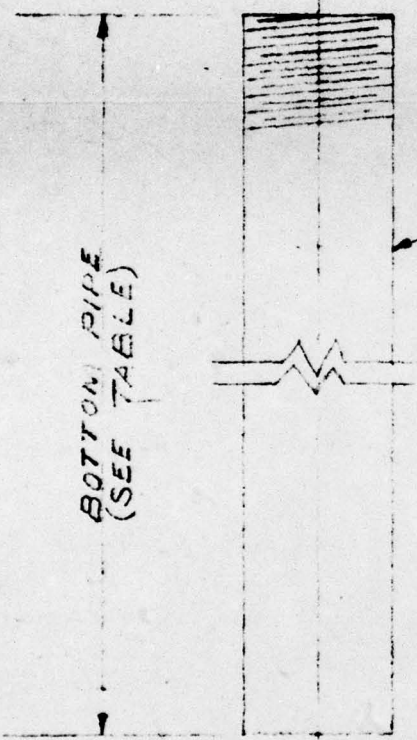
3"
0
O
P
Q
R
S
T
U
V
W
X

BY 1/2" PIPE BY SANDIA
CE (ABOVE SLAB ONLY)

ALL MOUNTS THIS TYPE
MODIFIED IN THE FIELD
TO PROVIDE 1 1/2" DIA. NIPPLE

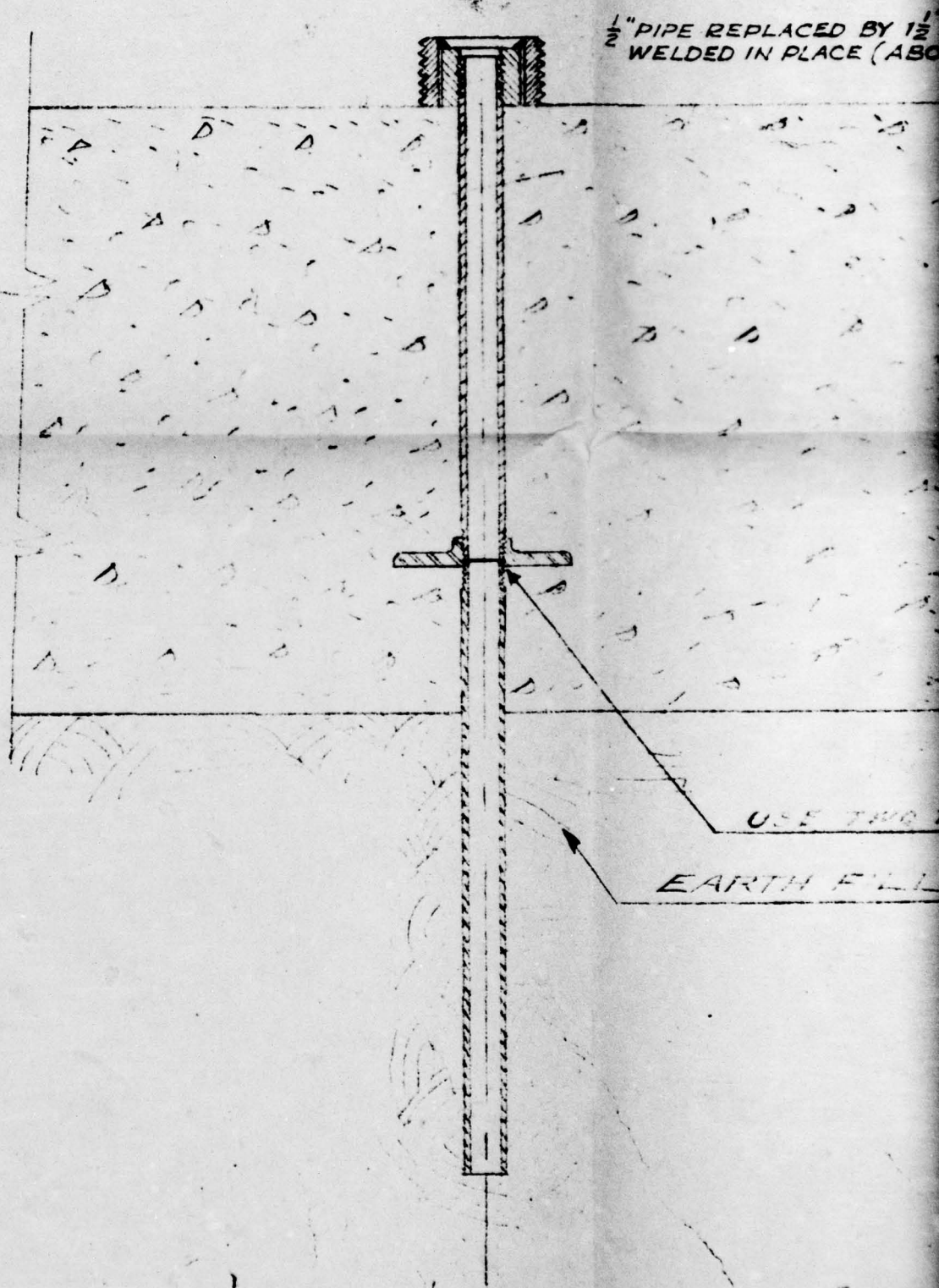


1" x 3 1/2" Ø STD MALLEABLE
IRON FLOOR FLANGE



1/2" STD BLACK PIPE
THREAD ONE END ONLY

BOTTOM PIPE
(SEE TABLE)



$\frac{1}{2}$ " PIPE REPLACED BY $\frac{1}{2}$ "
WELDED IN PLACE (ABC)

USE TWO
EARTH FILL

TYPICAL INSTALLATION

FIG. A2.79

REPLACED BY 1 1/2" PIPE BY SANDIA
IN PLACE (ABOVE SLAB ONLY)

UNCLASSIFIED

USE TWO THREADS FOR BOTTOM PIPE

EARTH FILL

~~RESTRICTED~~

SCALE FULL SCALE

FOR POURED IN PLACE CONCRETE

REVISIONS		HOLMES & HARVER INCORPORATED ENGINEERS 6245 FIGUEROA ST LOS ANGELES	
NO.	DATE	DESCRIPTION	
1	3/26/51	COLLECTED NOTATIONS	MOUNT FOR DISPLACEMENT GAUGE
2	5/9/51	GENERAL REVISIONS AS PERMITTED	
DR	CH. 2V	DATE	SHEET NO.
ROSE		3-20-50	5000
JOB NO.	APPROVED		
840P			