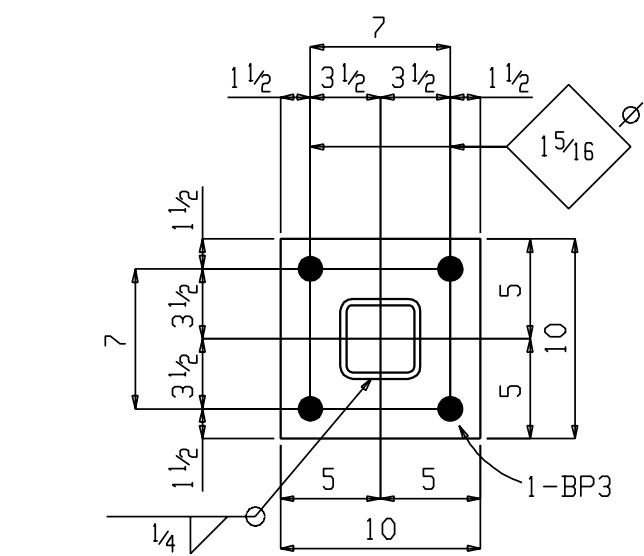
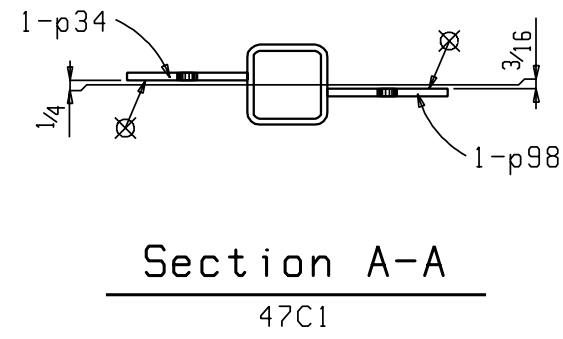
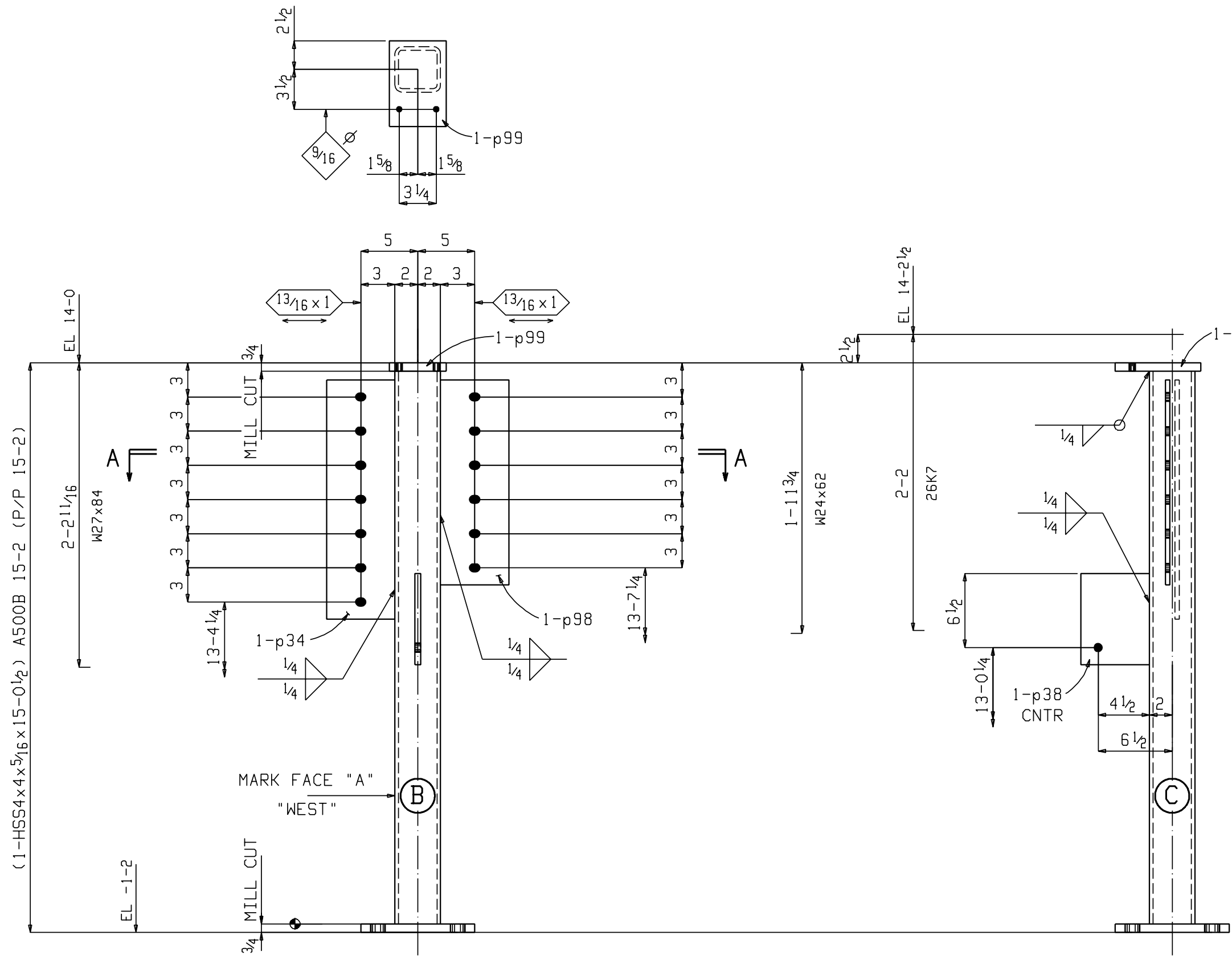
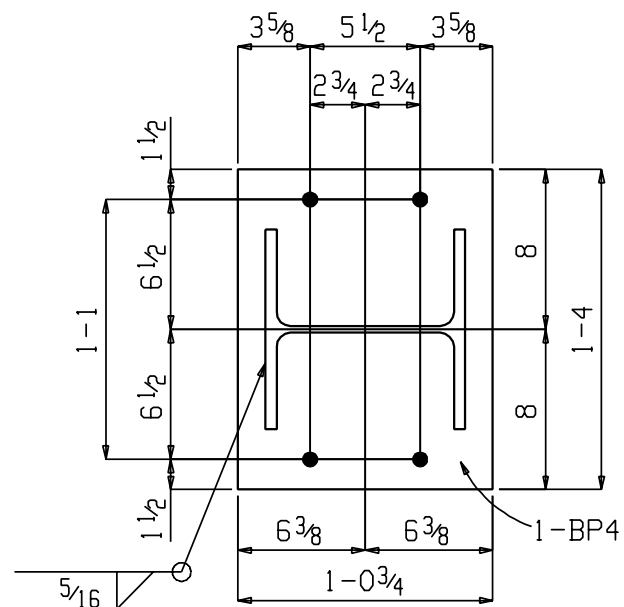
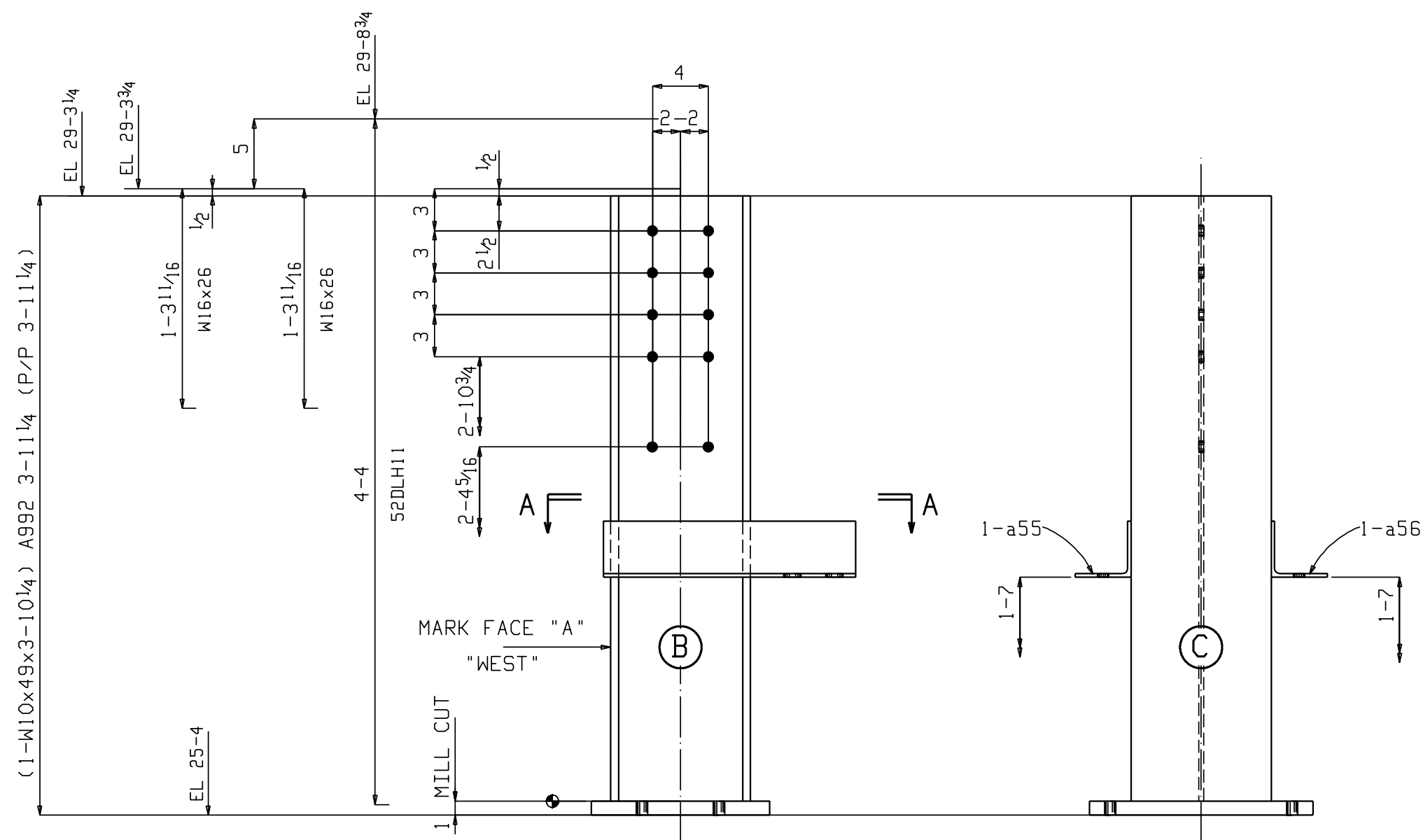




REFERENCE DRWG. / LOCATION			
AE1			
MATERIAL (UNLESS NOTED)		REV # DATE DESCRIPTION	
ASTM A36		REVISION AND ISSUE RECORD	
SURFACE PREPARATION			
SSPC SP3			
SHOP PAINT			
KEM BOND HS B50A28 GRAY			
SHOP CONNECTIONS/ELECTRODES			
WELD / E70XX			
FIELD CONNECTIONS	HOLES (U.N.)		
3/4" A325N	13/16"		DRAWING NO. F21



AT GRID:
9 &
SOUTH C.3

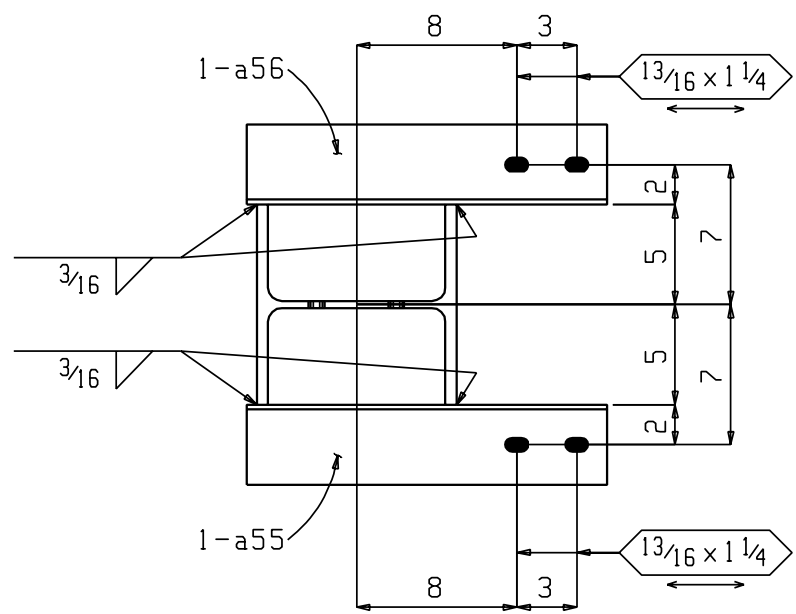


2 COLUMNS 47C2

W 10x3 1/16
F 10x3 1/16
AT GRID:
8.1 & BETWEEN C.3,D.7
8.1 & BETWEEN D.7,C.7

BILL OF MATERIAL

SEQ	QTY	ERECT. MK	NO.	SHAPE	LENGTH	ASSYMK	REMARKS	GRADE	ITEM	HOLE	Weight
											Unit
101	1	47C1	ONE	COLUMN					3-1		
				1 HSS4x4x3/16	15	0 1/2	47C1	M2E	A500B	N	223
				1 PL3/4x10	0	10	BP3		A572-50	Y	21
				1 PL3/4x5	0	7 1/2	p99		A572-50	Y	8
				1 PL1/2x6	0	8	p38		A572-50	Y	7
				1 PL3/8x6	1	9	p34		A572-50	Y	13
				1 PL3/8x6	1	6	p98		A572-50	Y	11
102	2	47C2	2	COLUMN					5-1		
				2 W10x49	3	10 1/4	47C2	M1E	A992	Y	189
				2 L4x4x1/4	1	6	a55		A36	Y	10
				2 L4x4x1/4	1	6	a56		A36	Y	10
				2 PL1x12 3/4	1	4	BP4		A572-50	Y	58



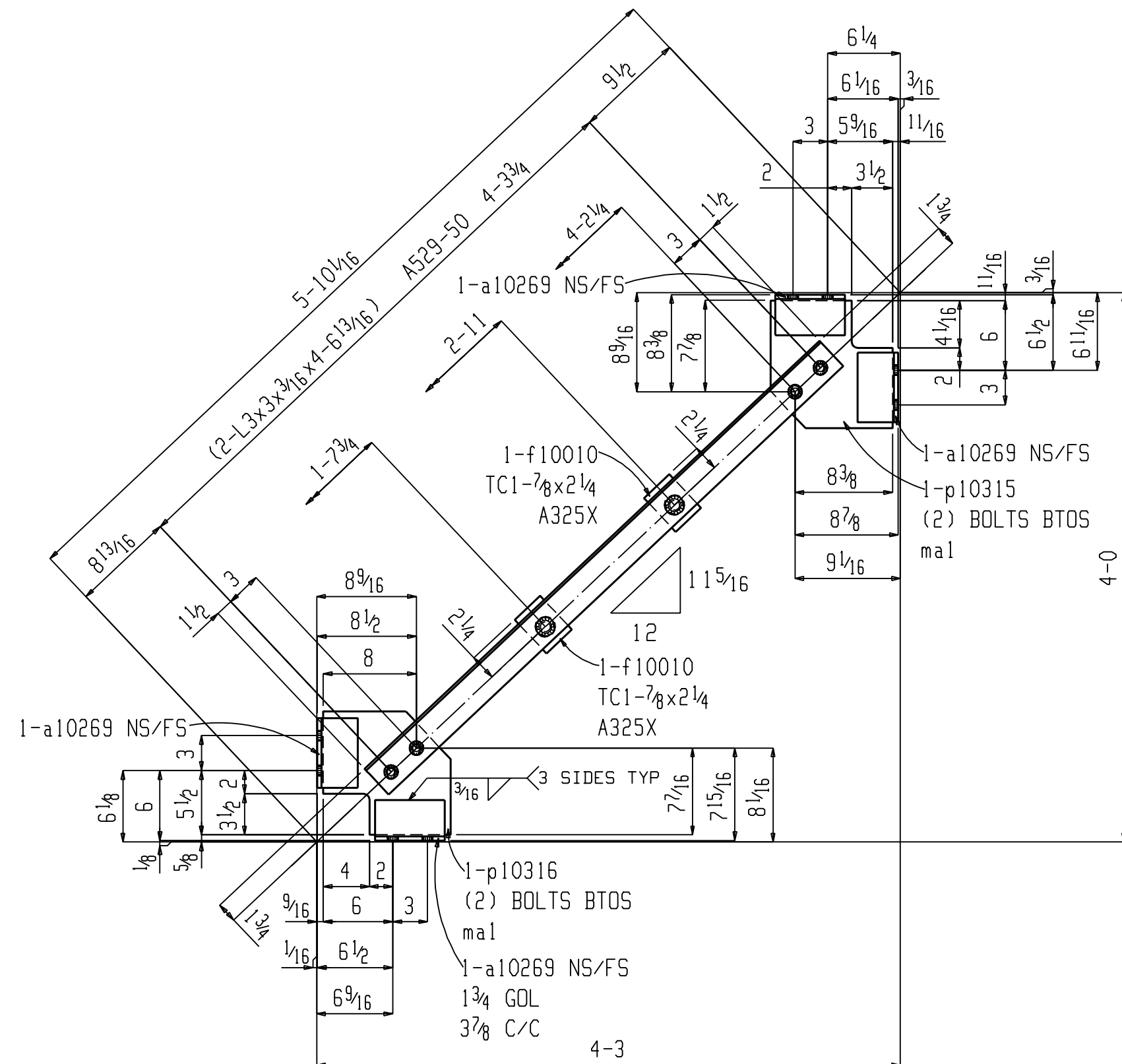
Section A-A
47C2

Total weight : 817

FOR APPROVAL

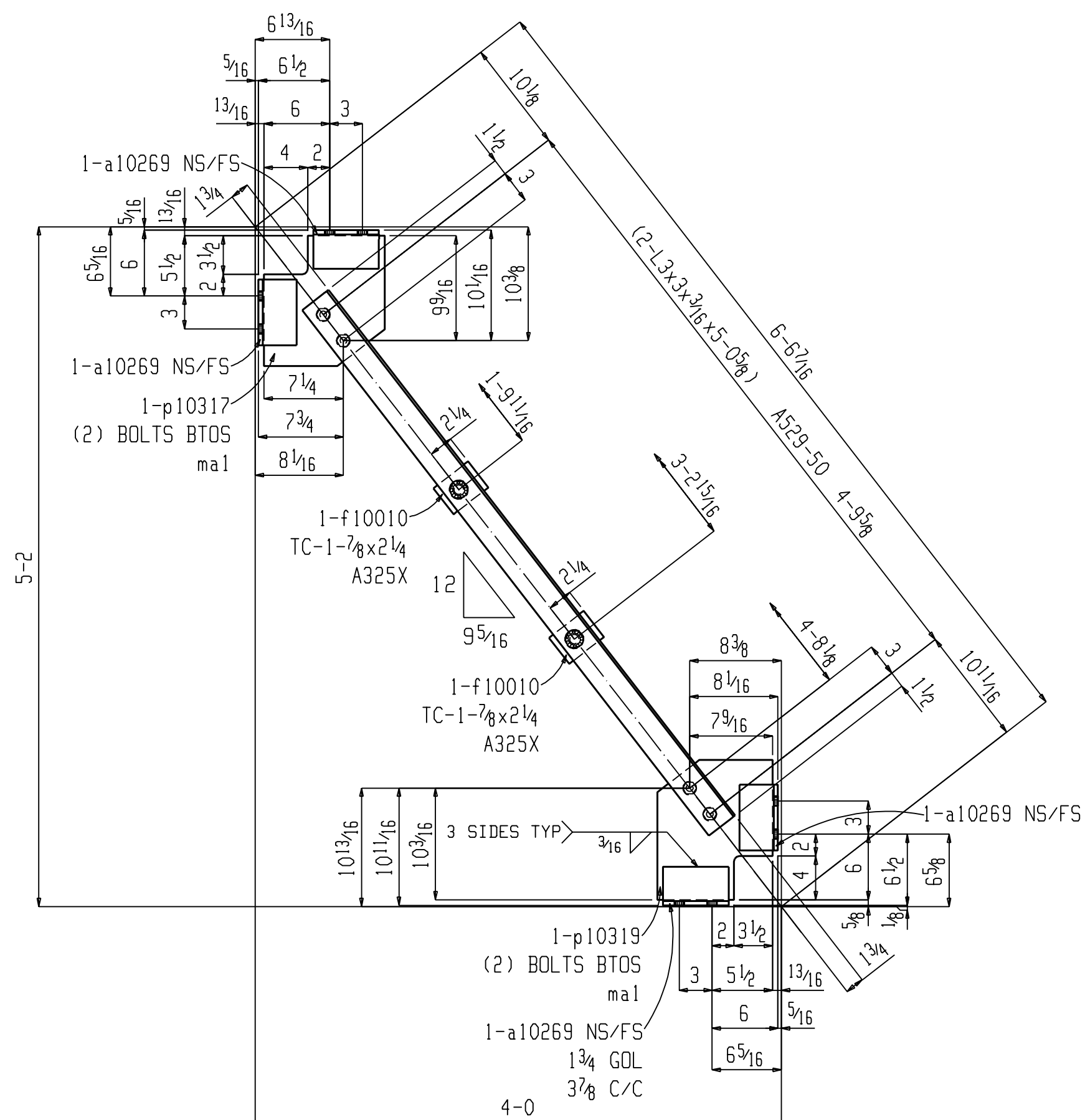
REFERENCE DRWG. / LOCATION	AE1			
MATERIAL (UNLESS NOTED)	ASTM A36			
SURFACE PREPARATION	SSPC SP3			
SHOP PAINT	KEM BOND HS B50A28 GRAY			
SHOP CONNECTIONS/ELECTRODES	WELD / E70XX			
FIELD CONNECTIONS	3/4" A325N	HOLES (U.N.)	13/16"	DRAWING NO. F47

ma
mb
mc
md
mf
mh
mk
mm
mp
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mv
mw



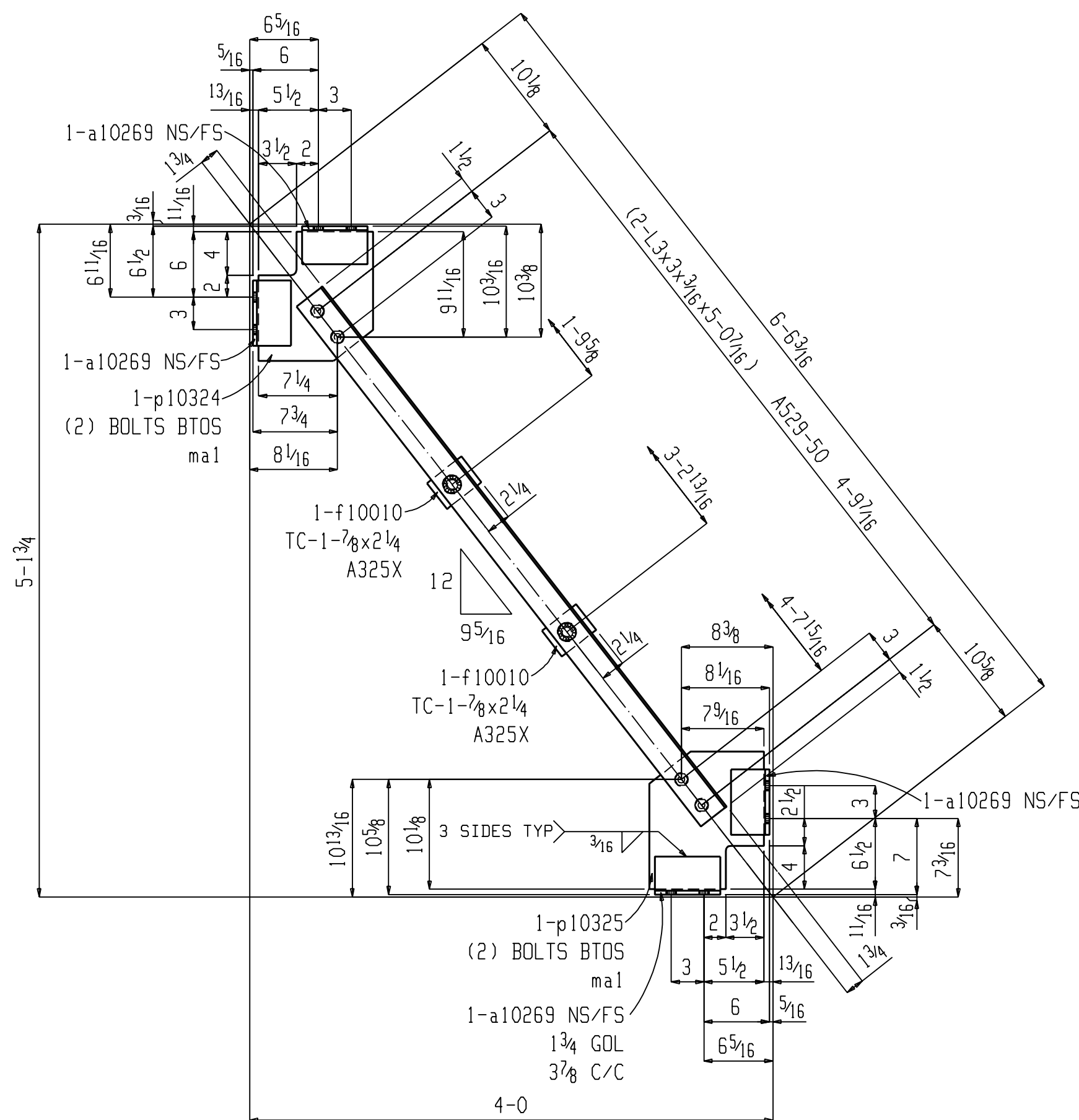
ONE HORIZONTAL BRACE 102925HB1

SHOP NOTE
BRACE AND PLATE TO BE PAINTED
PRIOR TO BOLTING TOGETHER



ONE HORIZONTAL BRACE 102925HB2

SHOP NOTE BRACE AND PLATE TO BE PAINTED PRIOR TO BOLTING TOGETHER



ONE HORIZONTAL BRACE 102925HB3

SHOP NOTE
BRACE AND PLATE TO BE PAINTED
PRIOR TO BOLTING TOGETHER

JOB NO.	DRG NO.
3523	102925

REVIEWED FOR CAYUGA GENERATING STATION
SCR PROJECT
PROJECT NO. 12698-101,102
SARGENT & LUNDY LLC

1. ☐ No exception taken. Contractor may proceed with fabrication or construction.
2. ☐ Revise as noted and resubmit. Contractor can proceed based on making revisions noted.
3. ☐ Results do not meet specification requirements. Revise and resubmit. Hold fabrication.
4. ☐ For information only.

ANY ACTION SHOWN ABOVE IS SUBJECT TO THE TERMS OF THE CONTRACT AND DOES NOT RELIEVE CONTRACTOR FROM HIS OBLIGATIONS UNDER THE CONTRACT INCLUDING DESIGN AND DETAILING.

FOR: STEEL SHOP AND ERECTION DRAWINGS

EQUIPMENT NO:

BY: _____

SPEC. NO. P-898 DATE:

BILL OF MATERIAL

BLOCK	BLOCK			NO.		LENGTH	C.S.	CUT FROM	PROC.		Weight	PAY	
QTY.	NO.	MARK	PCS.	SHAPE	FT.	IN.	NO.	NO.	FT. IN.	PG - LN	REMARKS	Total	ITEM
1	2301	1	102925HB1	ONE	HORIZONTAL BRACE					707-12		95	
		2	102925HB1L	1	L3x3x3/16	4	6 13/16				A529-50	17	
		3	102925HB1R	1	L3x3x3/16	4	6 13/16				A529-50	17	
		4	a10269	8	L3 1/2 x 3 x 3/8	0	6				A529-50	32	
		5	p10316	1	PL 3/8 x 10 1/2	0	11				SHPD A572-50	12	
		6	p10315	1	PL 3/8 x 10 1/2	0	11				SHPD A572-50	12	
		7	f10010	2	FL 3/8 x 3	0	4				A572-50	3	
		8		2	TC 7/8 Dia A325X	0	2 1/4				1HD WASH	2	
		9	nal	4	5/8 Dia A307	0	2 1/4				1HD WASH		
		10											
		11			FIELD BOLTS								
		12		4	TC 7/8 Dia A325X	0	2 1/4				2HD 1L1W WASH		
		13											
		14											
		15											
		16											
		17											
1	2304	18	102925HB2	ONE	HORIZONTAL BRACE					725-5		103	
		19	102925HB2L	1	L3x3x3/16	5	0 5/8				A529-50	19	
		20	102925HB2R	1	L3x3x3/16	5	0 5/8				A529-50	19	
		21	a10269	8	L3 1/2 x 3 x 3/8	0	6				A529-50	32	
		22	p10317	1	PL 3/8 x 11	0	11 1/8				SHPD A572-50	14	
		23	p10319	1	PL 3/8 x 10 1/2	1	0 3/4				SHPD A572-50	14	
		24	f10010	2	FL 3/8 x 3	0	4				A572-50	3	
		25		2	TC 7/8 Dia A325X	0	2 1/4				1HD WASH	2	
		26	nal	4	5/8 Dia A307	0	2 1/4				1HD WASH		
		27											
		28			FIELD BOLTS								
		29		4	7/8 Dia A325X	0	2 1/4				2HD, 1L1W, WASH		
		30											
		31											
		32											
		33											
		34											
1	2304	35	102925HB3	ONE	HORIZONTAL BRACE					725-6		102	
		36	102925HB3L	1	L3x3x3/16	5	0 5/8				A529-50	19	
		37	102925HB3R	1	L3x3x3/16	5	0 5/8				A529-50	19	
		38	a10269	8	L3 1/2 x 3 x 3/8	0	6				A529-50	32	
		39	p10325	1	PL 3/8 x 10 1/2	1	0 5/8				SHPD A572-50	14	
		40	p10324	1	PL 3/8 x 10 1/2	0	11 1/8				SHPD A572-50	13	
		41	f10010	2	FL 3/8 x 3	0	4				A572-50	3	
		42		2	TC 7/8 Dia A325X	0	2 1/4				1HD WASH	2	
		43	nal	4	5/8 Dia A307	0	2 1/4				1HD WASH		
		44											
		45			FIELD BOLTS								
		46		4	7/8 Dia A325X	0	2 1/4				2HD 1L1W WASH		
		47											
		48											
		49											
		50											
		51											
		52											
		53											
		54											
		55											

ENG. REF. DRG. No: S-9629,9631

F						
E						
D						
C						
B						
A						
O	ORIGINAL ISSUE	12 ₂₁	MK	NRD		
REV	REMARKS	DATE	DWN	CHK	APP	O. A.

FOR APPROVAL

GENERAL NOTES

MATERIAL : AS NOTED	ELECTRODES : E70LH	ALL SHOP BOLTS ARE TO BE BOLTS U.O.N. ALL BURNING DIMENSIONS TO BE END OF MAIN MATERIAL. ALL VERTICAL SPACING OF HOLES TO BE 3" UNLESS NOTED. ALL SHOP BOLTS TO BE UNLESS NOTED. ALL CORNERS TO BE RADIUS.
HOLES : 1 5/16 DIA UNO	BOLTS : 7/8 Q A325 (UNO)	Ø = DENOTES "COUNTER SURFACE" THIS SIDE OF PLATE. Ø IN END PLATES AND DIMENSIONS LESS OF END LIPS DESIGNATED Ø TO BE HORIZONTALLY SLOTTED 1" MORE THAN BOLT DIAMETER. ALL OPEN ENDS TO HAVE TOLERANCE OF .005" X INDICATES LAYOUT MARK FOR FABRICATION. ALL S.I.S. SHOP BOLTS TO FORM TO BE UNLESS NOTED. LH = L/W, DT1 = H1, FL = FL WASHER FL = MROUGHT WASHER HBERS ARE TO BE ERCTED SO THAT MARKED END IS IN SAME LOCATION AS ON DIRECTION DRAWING NO. E-3629, 9631
SURFACE PREP: SSPC-SP6		
PAINT : PPG-Americat 68HS Organic Zinc Primer (3-5 Mils DFT) PPG-Americat 450H Topcoat (4-5 Mils DFT)		

DESCRIPTION : HORIZONTAL BRACE DETAILS
--

DRAWN BY	DATE
MK	
CHECKED BY	DATE
NRD	
APPROVED BY	DATE
O. A.	DATE
JOB NO.	IRG. NO.
3523	102925

REV.	0
------	---



ONE VERTICAL BRACE 81VB3

ONE VERTICAL BRACE 81VB2

ONE VERTICAL BRACE 81VB4

SHOP NOTE:-

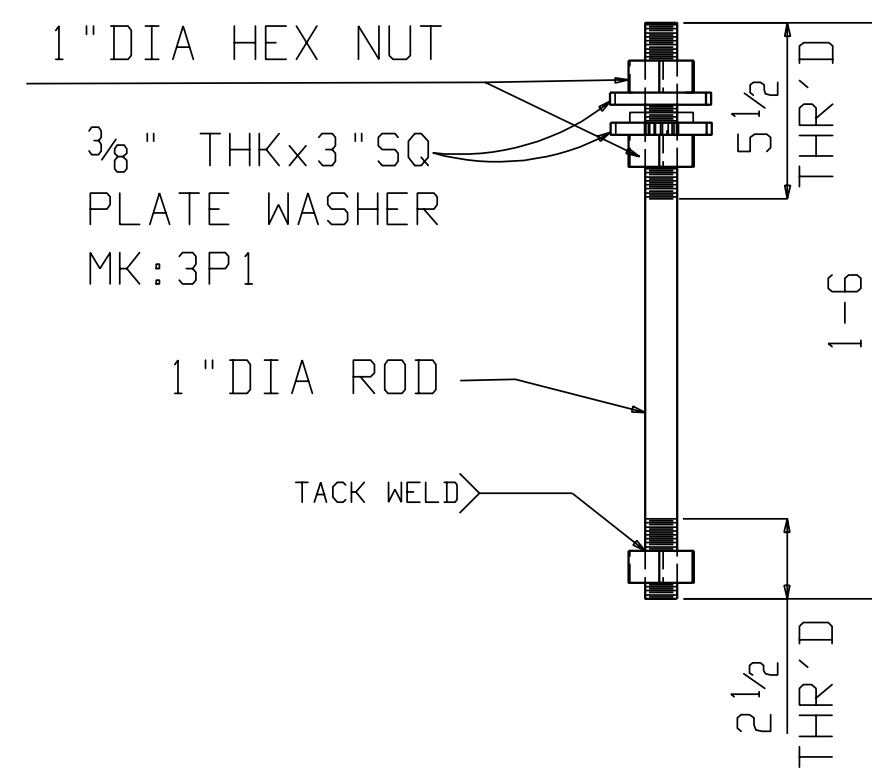
1. BRACE AND PLATE TO BE PAINTED PRIOR TO BOLTING TOGETHER
2. REFER DETAIL-A FOR END PREP.

[illegible]

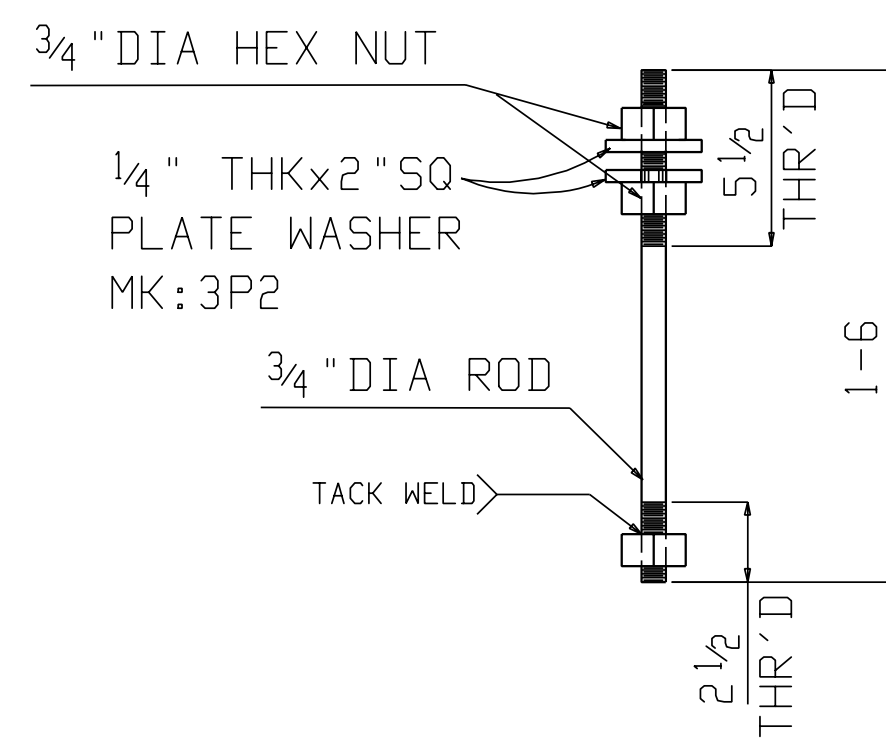
Total weight : 1341

FOR APPROVAL

REFERENCE DWG. / LOCATION		FOR APPROVAL	
EXX			
MATERIAL (UNLESS NOTED)			
ASTM A36		REV #	DATE
		DESCRIPTION	
SURFACE PREPARATION		REVISION AND ISSUE RECORD	
SSPC SP3			
SHOP PAINT			
KEM BOND HS B50A28 GRAY			
SHOP CONNECTIONS/ELECTRODES			
WELD / E70XX			
FIELD CONNECTIONS	HOLES (U.N.)		
3/4" A325N	13/16"		DRAWING NO. F81



467 ANCHOR BOLTS 1AB1



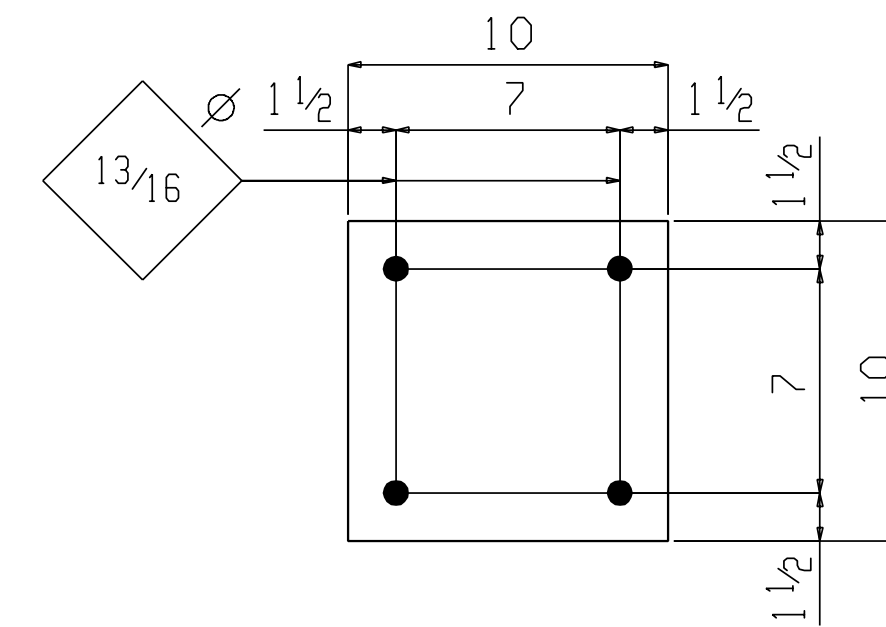
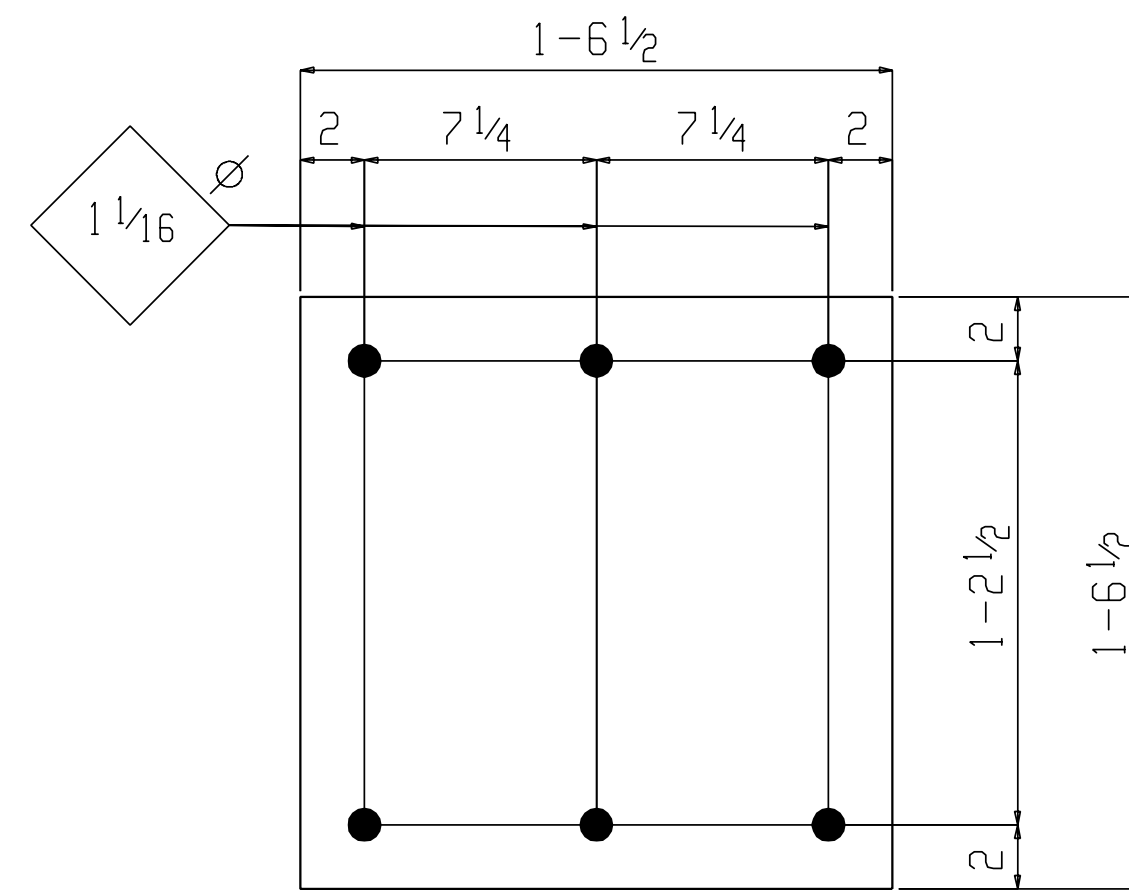
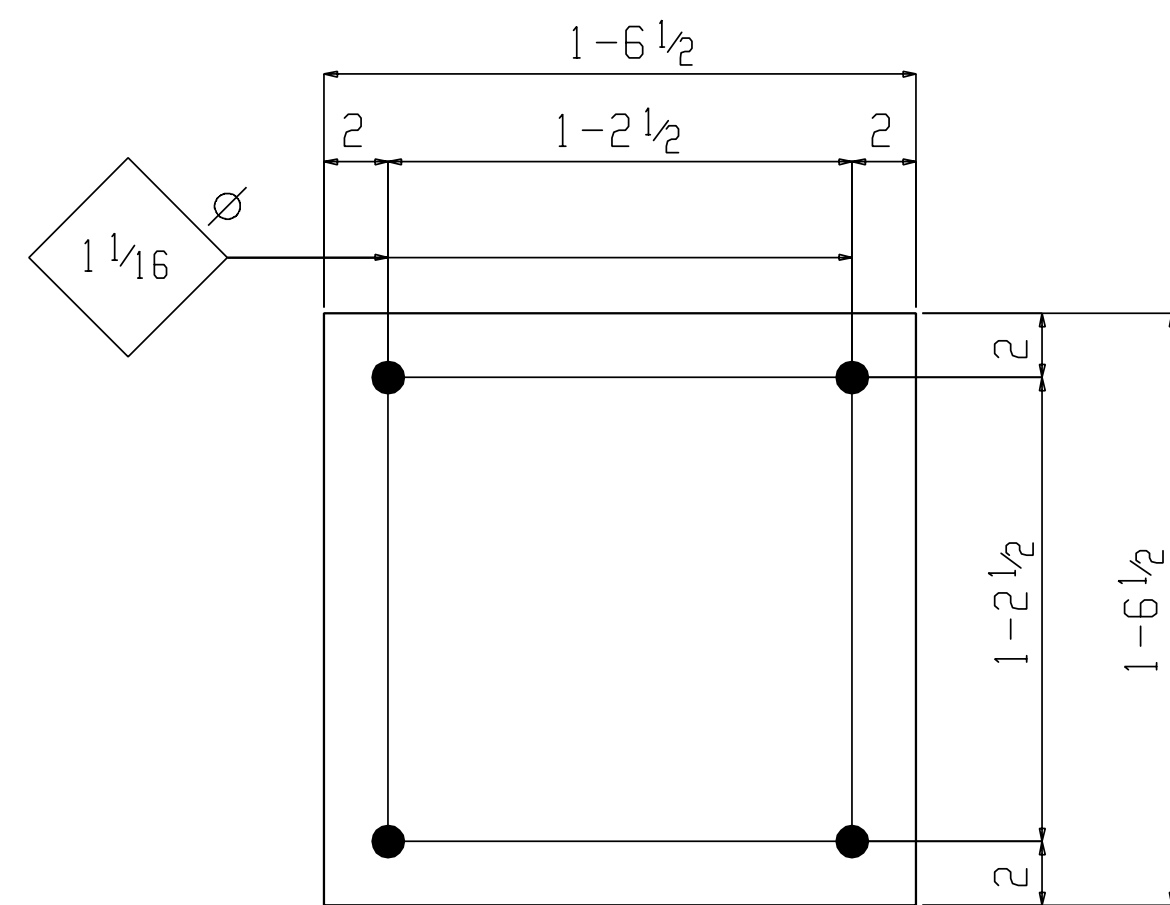
4 ANCHOR BOLTS 1AB2

[illegible]

Total weight : 2814

FOR FABRICATION

REFERENCE DRWG. / LOCATION		FOR FABRICATION	
AP3			
MATERIAL (UNLESS NOTED)			
ASTM A36		REV #	DATE
		DESCRIPTION	
SURFACE PREPARATION		REVISION AND ISSUE RECORD	
NONE			
SHOP PAINT			
NONE			
SHOP CONNECTIONS/ELECTRODES			
WELD / E70XX			
FIELD CONNECTIONS	HOLES (U.N.)		
3/4" A325N	13/16"		DRAWING NO. F1

[illegible]

Total weight : 56

REFERENCE DRWG. / LOCATION	FOR FABRICATION								
AP3	<table><tr><td>REV #</td><td>DATE</td><td>DESCRIPTION</td></tr><tr><td colspan="3">REVISION AND ISSUE RECORD</td></tr></table>			REV #	DATE	DESCRIPTION	REVISION AND ISSUE RECORD		
REV #				DATE	DESCRIPTION				
REVISION AND ISSUE RECORD									
MATERIAL (UNLESS NOTED)									
ASTM A36									
SURFACE PREPARATION									
NONE									
SHOP PAINT									
NO PAINT									
SHOP CONNECTIONS/ELECTRODES									
WELD / E70XX									
FIELD CONNECTIONS									
HOLES (U.N.)									
3/4" A325N			DRAWING NO.						
13/16"			F2						

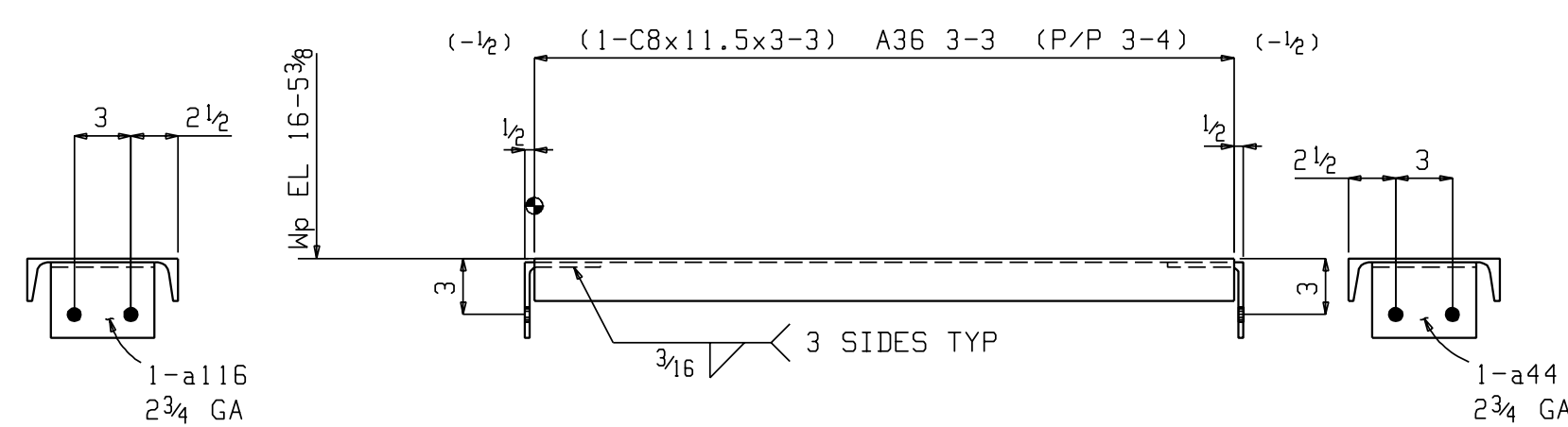
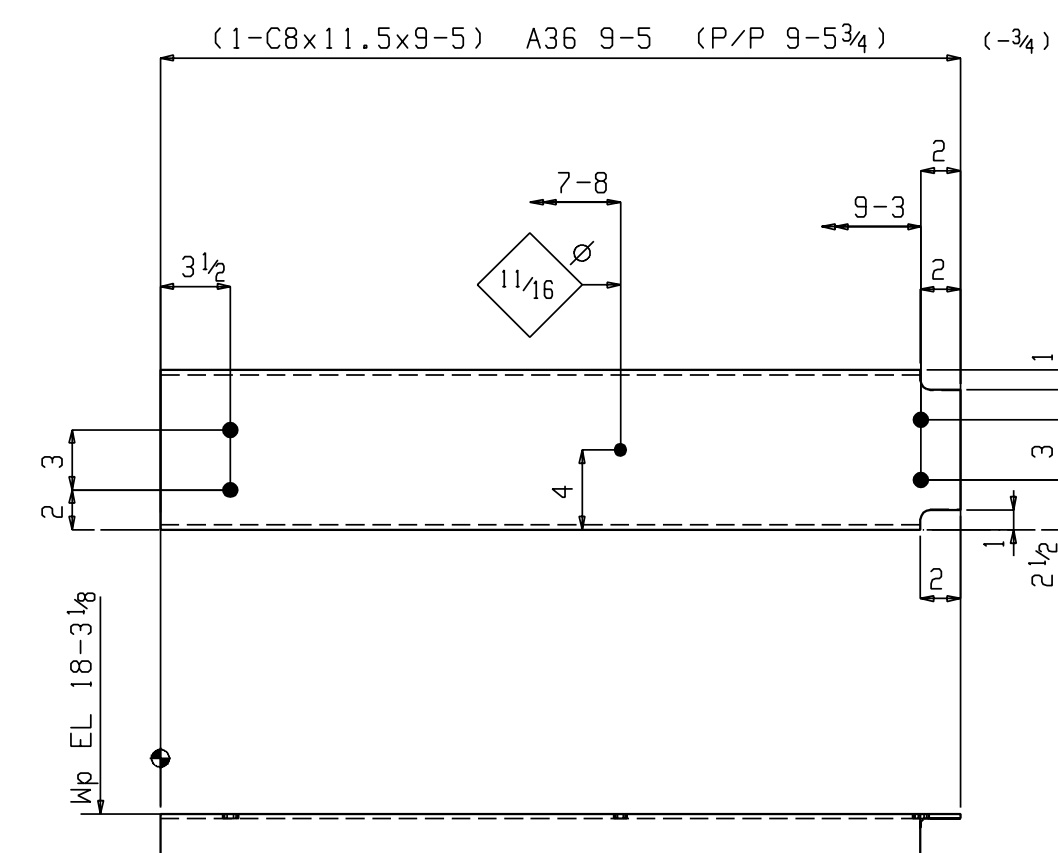
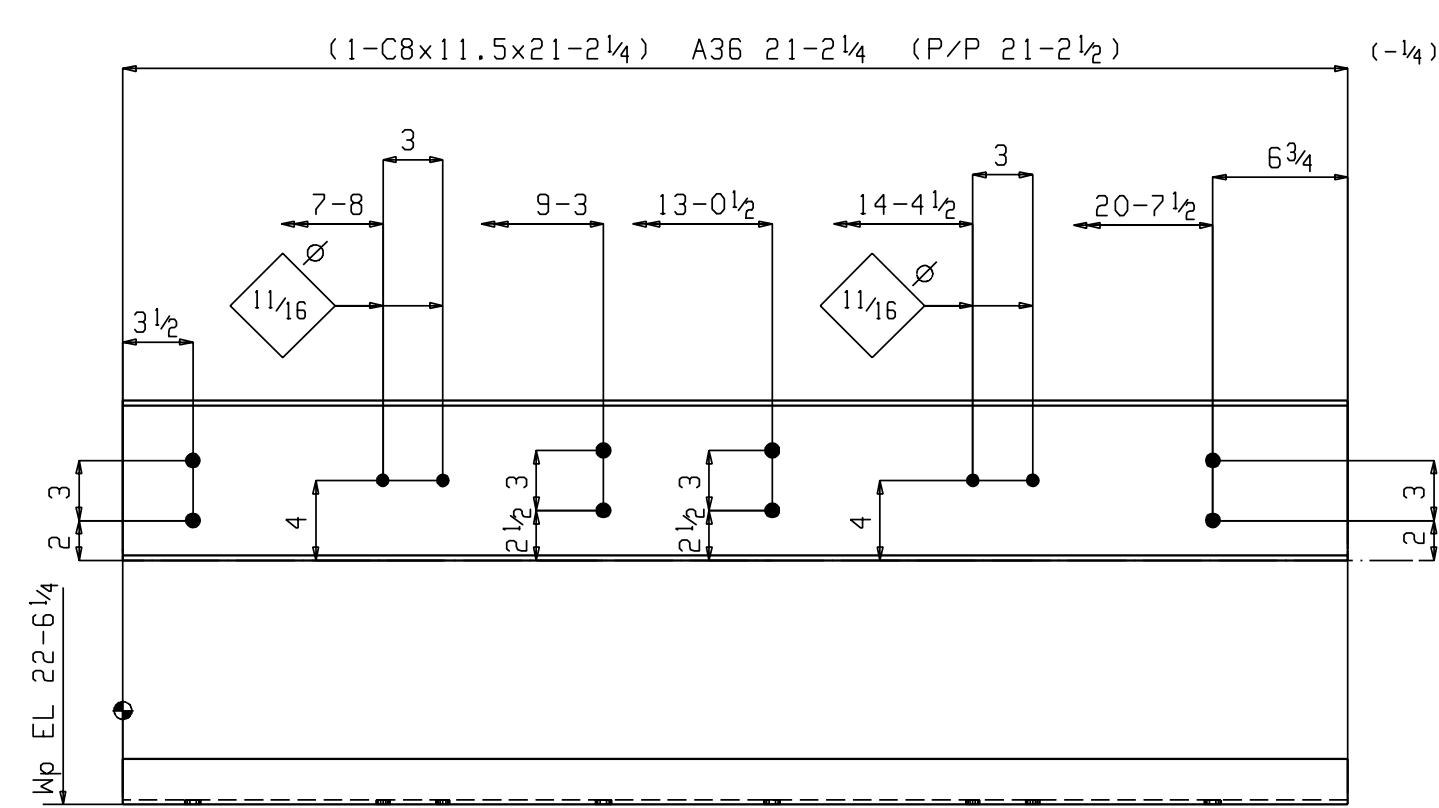
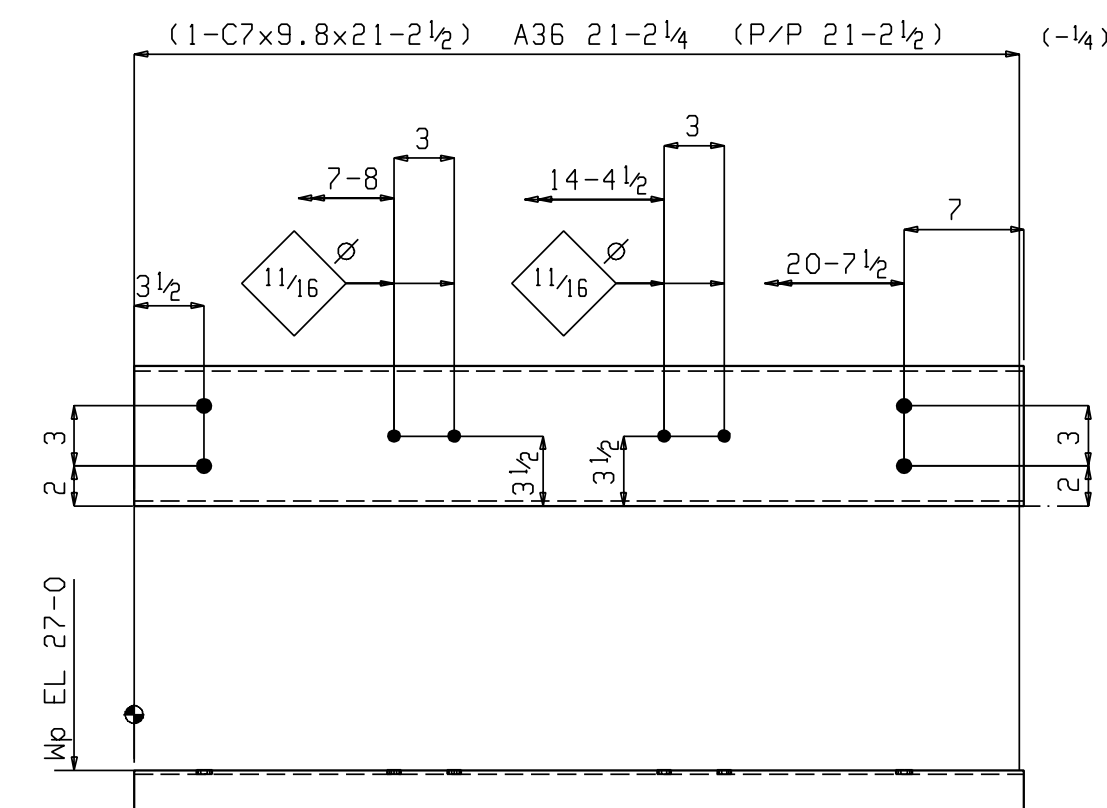


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MATERIAL (UNLESS NOTED)		ASTM A36		
REV #	DATE	DESCRIPTION		
REVISION AND ISSUE RECORD				
SURFACE PREPARATION		NONE		
SHOP PAINT		NONE		
SHOP CONNECTIONS/ELECTRODES		WELD / E70XX		
FIELD CONNECTIONS		HOLES (U.N.)		
3/4" A325N		13/16"		DRAWING NO. F8



Total weight : 271



[illegible]

Total weight : 864



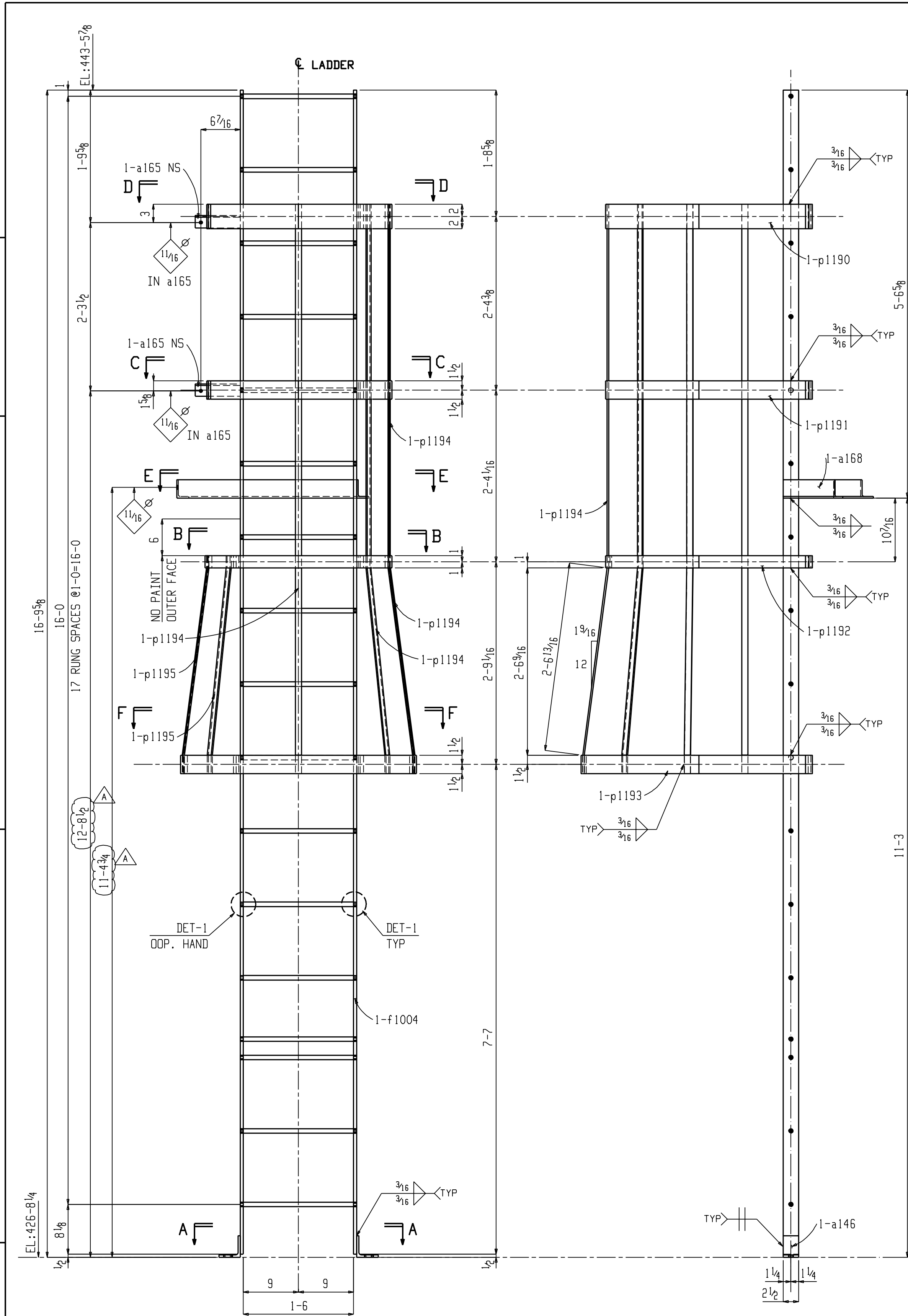
REFERENCE DRWG. / LOCATION		EXX		FOR APPROVAL
MATERIAL (UNLESS NOTED)		ASTM A36		
REV #	DATE	DESCRIPTION		
REVISION AND ISSUE RECORD				
SURFACE PREPARATION		NONE		
SHOP PAINT		GALVANIZED		
SHOP CONNECTIONS/ELECTRODES		WELD / E70XX		
FIELD CONNECTIONS		HOLES (U.N.)		
3/4" A325N		13/16"		DRAWING NO. F114

AB
B
BK
BP
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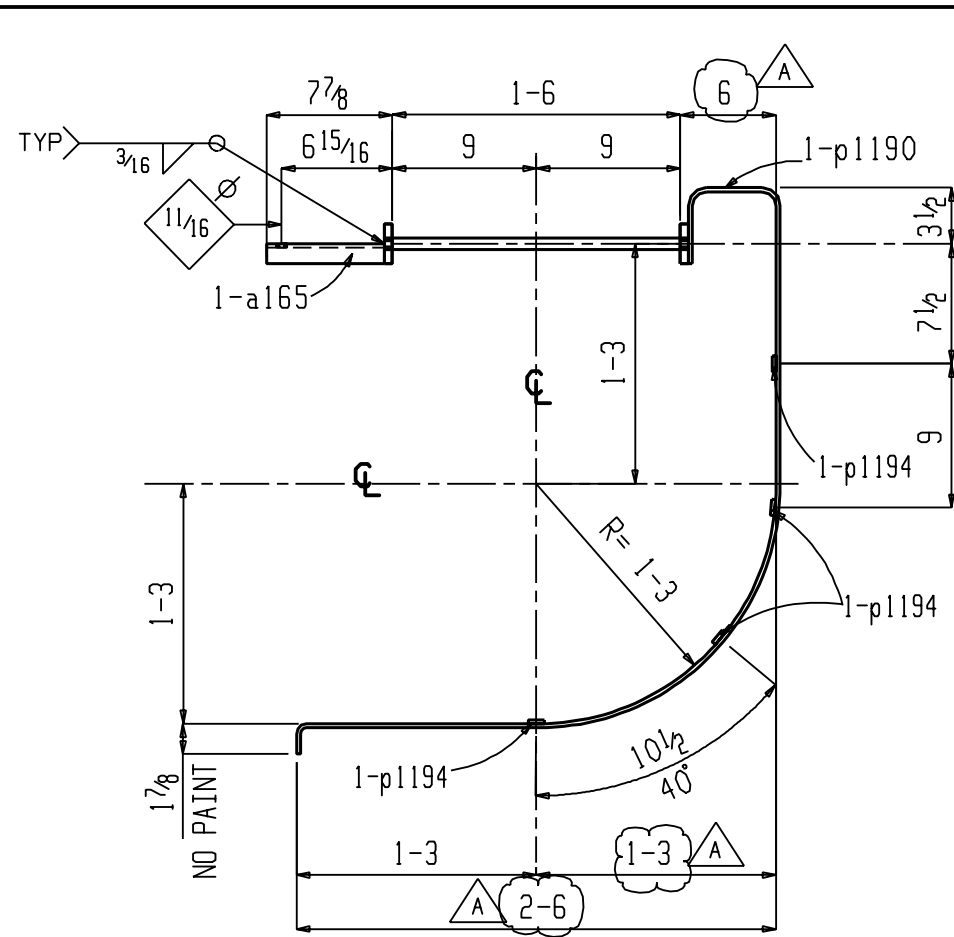
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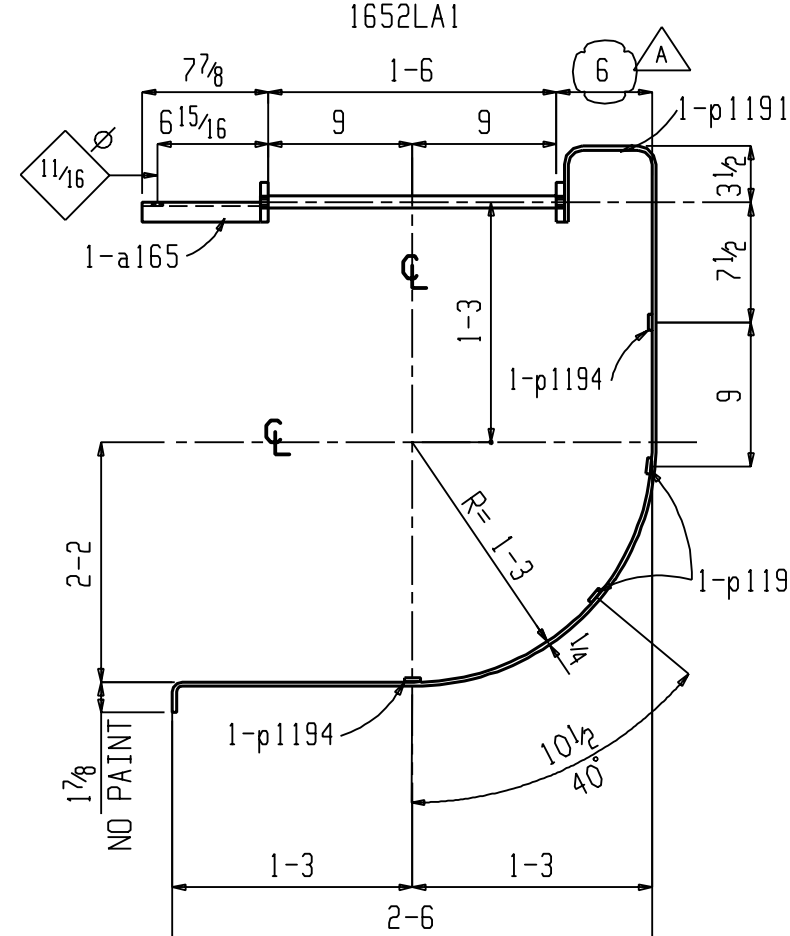
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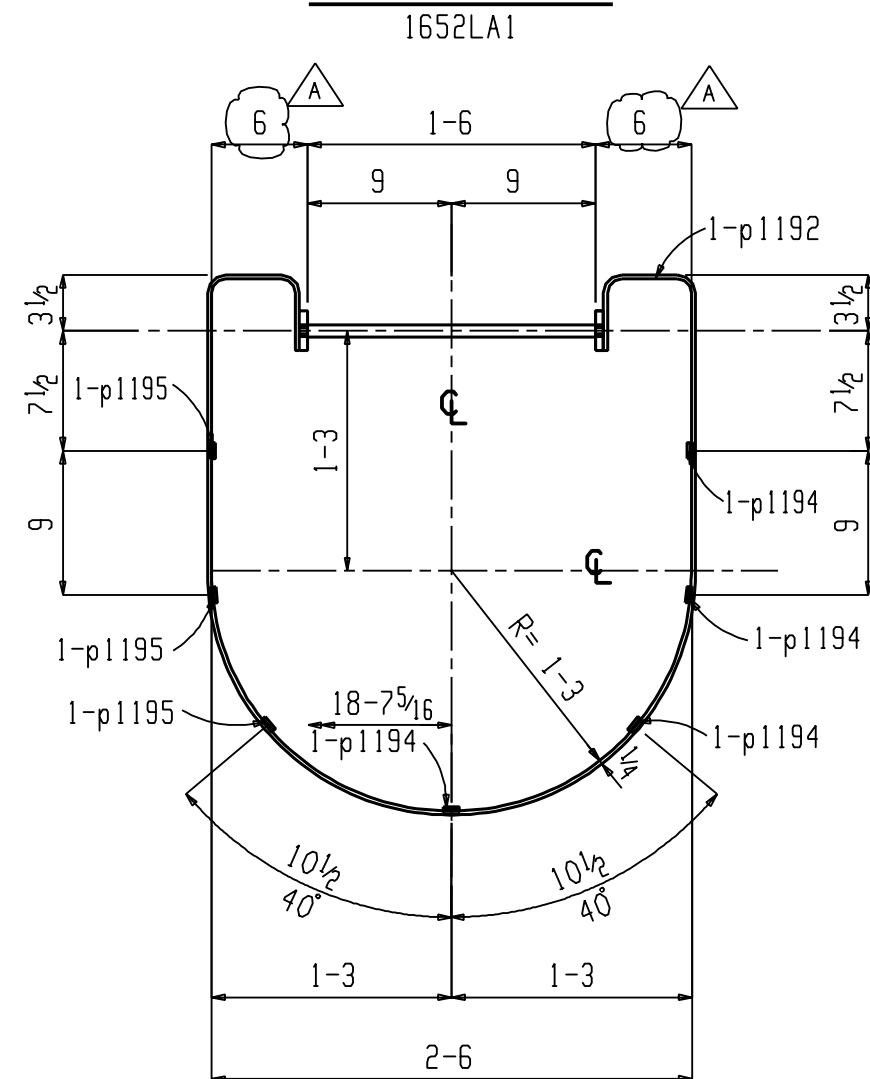
ONE LADDER 1652LA1



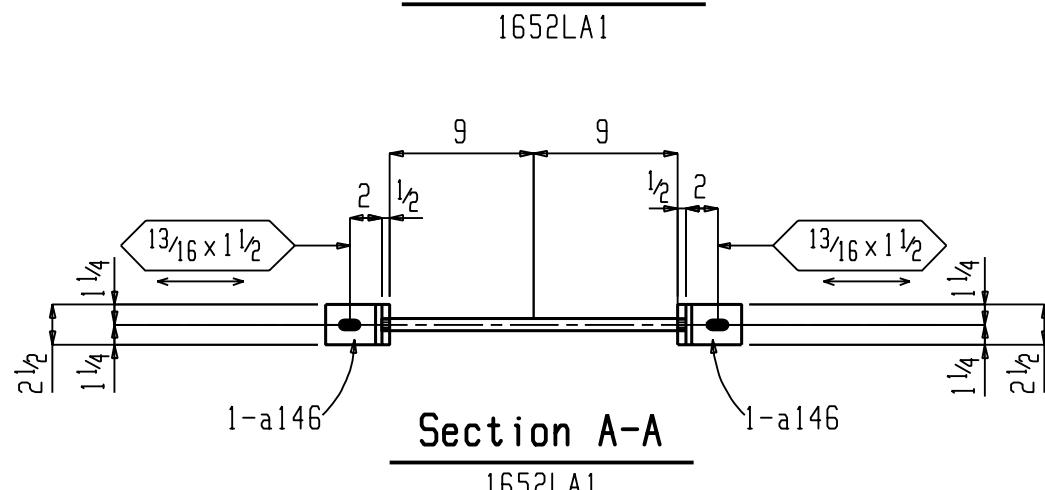
Section D-D



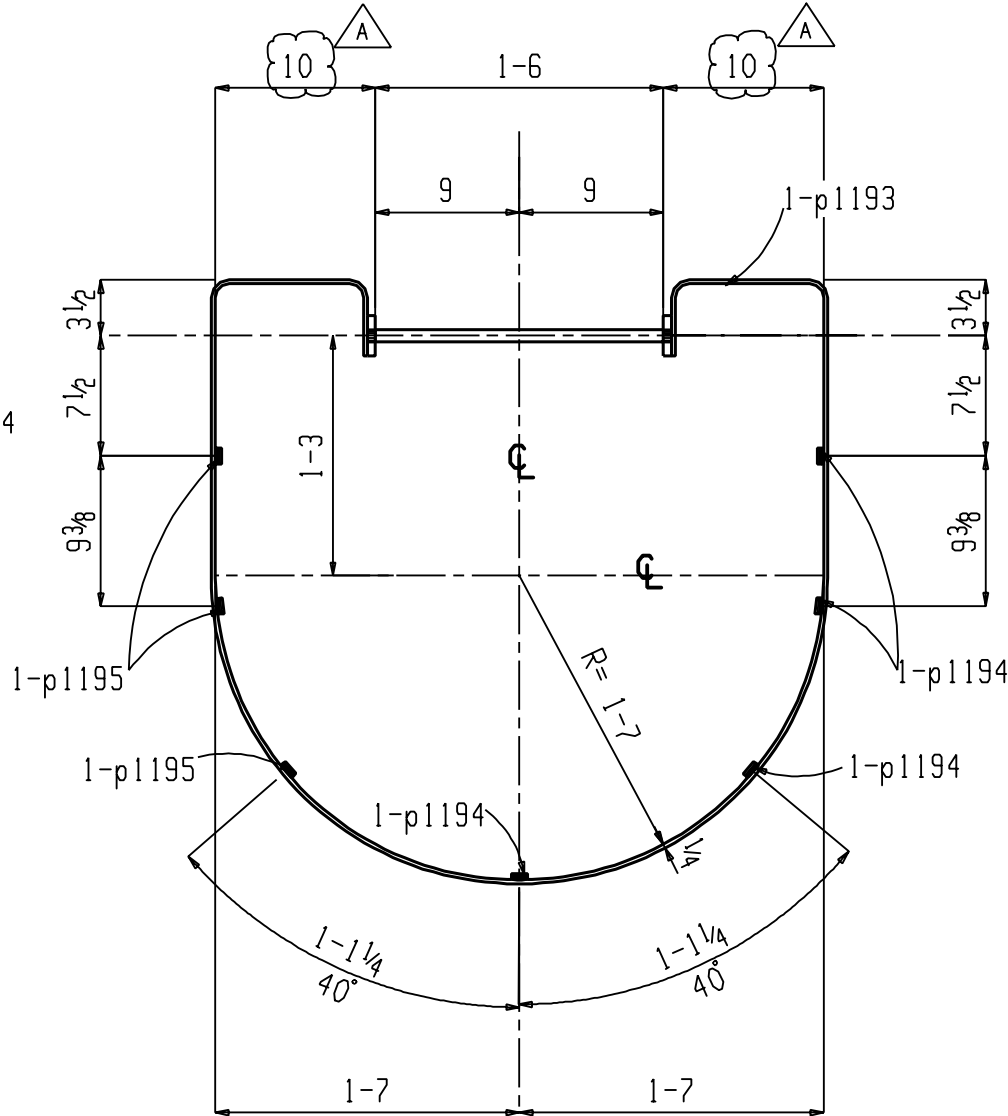
Section C-C



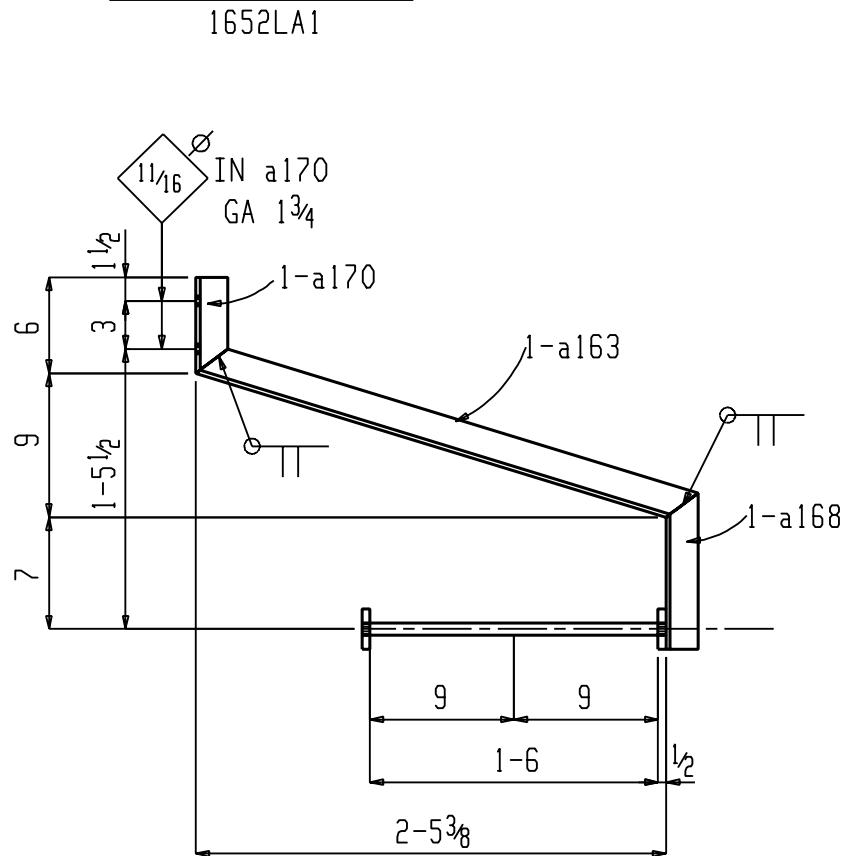
Section B-B



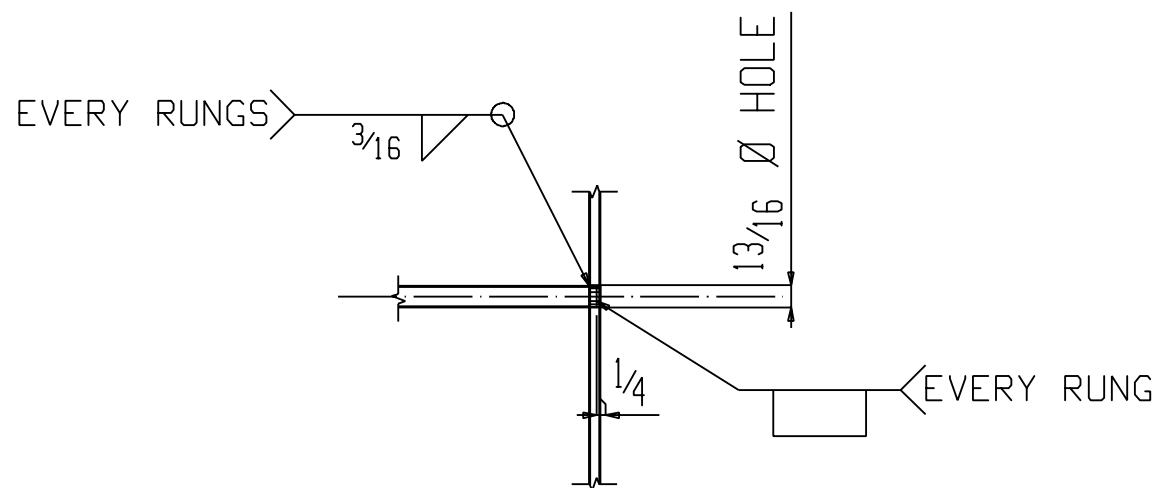
Section A-A



Section F-F



Section E-E



DETAIL-1

ALL JOINTS TO BE SEAL WELDED

BILL OF MATERIAL

BLOCK	QTY.	BLOCK NO.	MARK	PCS.	NO.	SHAPE	LENGTH	FT.	IN.	C.S.	OUT FROM	PROC.	PG - LN	REMARKS	PAY
1	1	1	1652LA1	ONE	LADDER										
		2	1652LA1	1	FL	1/2x2 1/2	16	9 1/2						A36	
		3	a146	2	L3	1/2x3 1/2x3/8	0	2 1/2						A36	
		4	a163	1	L3	2x2x1/4	2	8 3/16						A36	
		5	a168	1	L3	2x2x1/4	0	9 1/4						A36 NH	
		6	a170	1	L3	2x2x1/4	0	6						A36 NH	
		7	a165	2	L2	2x2x1/4	0	7 3/8						A36	
		8	f1004	1	FL	1/2x2 1/2	16	9 1/2						A36	
		9	p1190	1	BPL	1/4x4	5	2 13/16						BENT A36 NH	
		10	p1193	1	BPL	1/4x3	10	3 3/8						BENT A36 NH	
		11	p1191	1	BPL	1/4x3	5	2 13/16						BENT A36 NH	
		12	p1192	1	BPL	1/4x2	8	6 13/16						BENT A36 NH	
		13	p1195	3	BPL	1/4x1	2	1 11/16						BENT A36 NH	
		14	p1194	4	BPL	1/4x1	7	9 1/4						BENT A36 NH	
		15	rb1	17	RB	3/4	1	6 1/2						A36	
		16													
		17				FIELD BOLTS									
		18		2	5/8	Dia A307	0	3 1/4						1HD WASH	
		19		2	5/8	Dia A307	0	1 1/2						1HD WASH	
		20													
		21													
		22													
		23													
		24													
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ENG. REF. DWG. NO. A4PA-1-SS-2-PR-3, A4PA-0-SS-2-SN-5

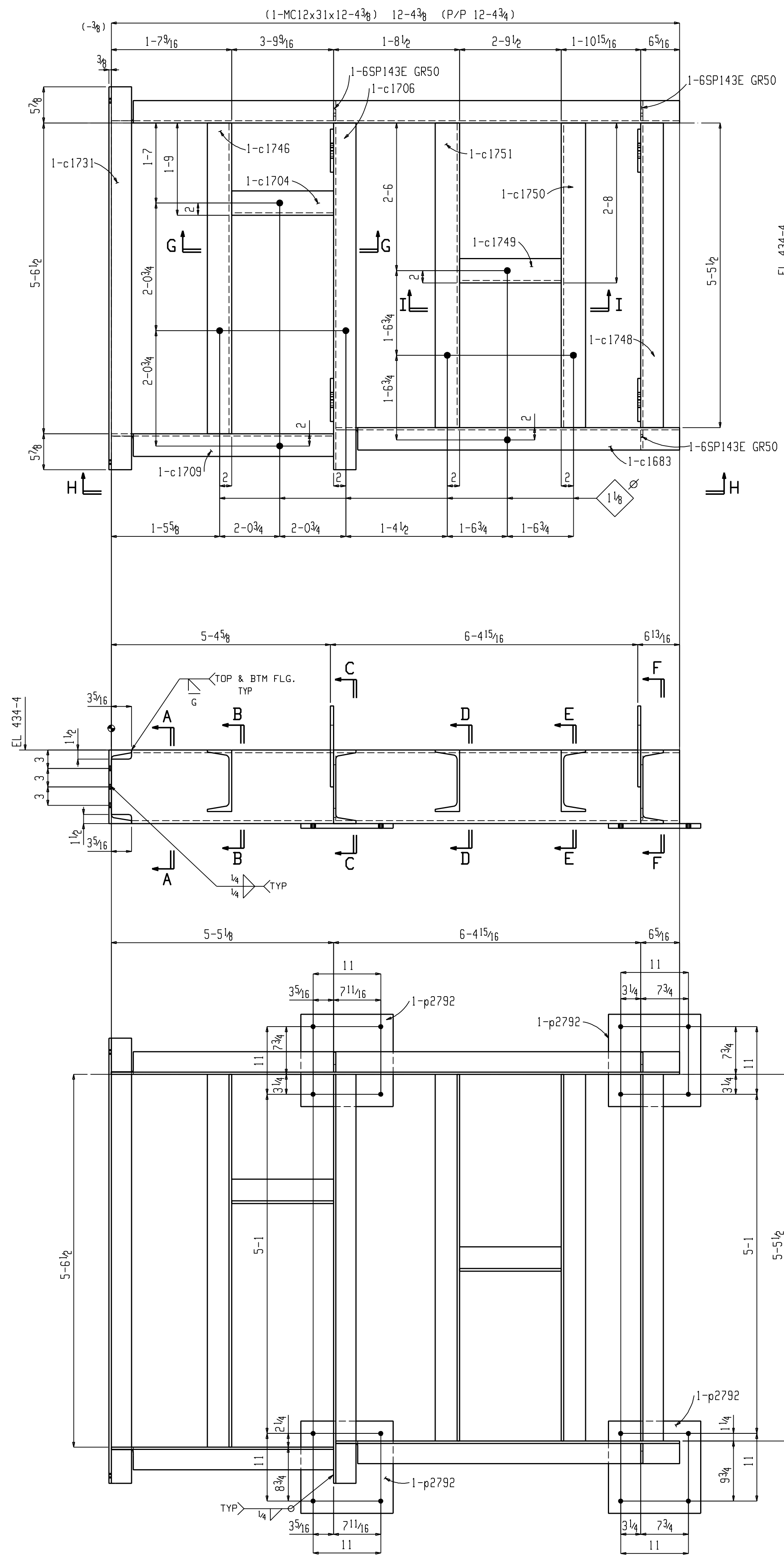
F					
E					
D					
C					
B					
A	FOR FABRICATION	04/27	AP	AAA	
O	ORIGINAL ISSUE	04/03	AP	AAA	
REV	REMARKS	DATE	DMN	CHK	APP

UNIT#1		GENERAL NOTES		PROJECT # A4PA	
MATERIAL :		AS NOTED		ELECTRODES : E70LH	
HOLES :		13/16 DIA UNO		BOLTS : 3/4 A307	
SURFACE PREPN & PAINT:		1 S/C-CARBOLINE CZ11 2.5-4.0 MILS DFT		SSPC-SP 6 BLAST	

DESCRIPTION : LADDER DETAIL		DRAWN BY		DATE	
		AP			
		CHECKED BY		DATE	
		AAA			
		APPROVED BY		DATE	
		O. A.			
		JOB NO.		DRG. NO.	
		9305		1652	
		REV.		A	

JOB NO.	DRG NO.
9305	1652

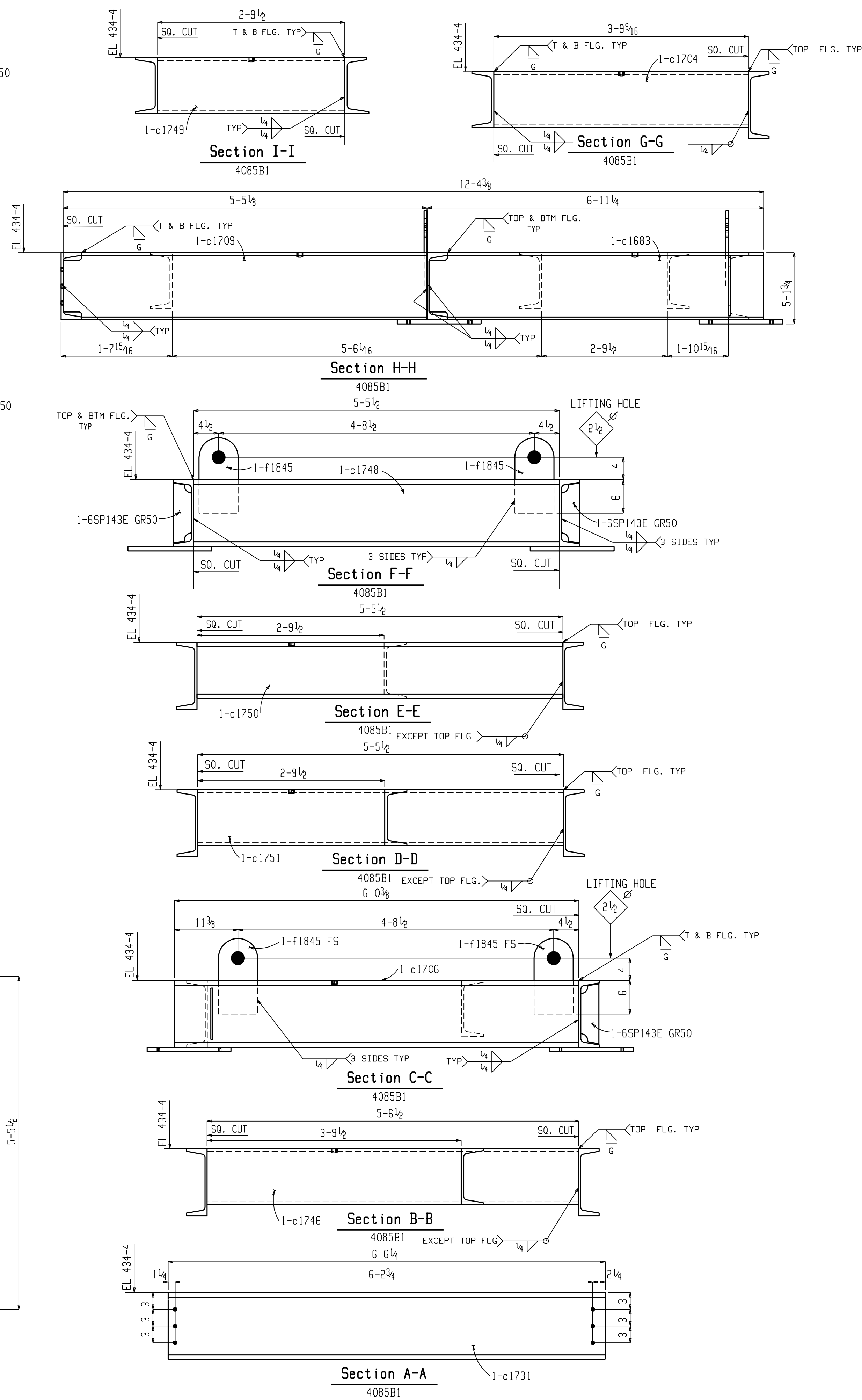
ma
mb
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mf
mh
mk
mm
mp
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mv
mw



ONE FRAME 4085B1

JOB NO.	DRG NO.
9683	4085

W	$12 \times \frac{3}{8}$
F	$3 \frac{1}{16} \times \frac{1}{16}$



IN ADDITION TO THE WELDS SHOWN
ON THE DRAWINGS, ALL REMAINING
JOINTS TO BE SEAL WELDED.

BILL OF MATERIAL

[illegible]

ENG. REF. DWG. NO. A4PA-1-SS-2-PR-47						
F						
E						
D						
C						
B						
A						
D	ORIGINAL ISSUE	02/11	SS	DJA		
REV	REMARKS	DATE	DWN	CHK	APP	Q. A.

UNIT#1		GENERAL NOTES		PROJECT # A4PA
MATERIAL :	AS NOTED	ELECTRODES :	E70LH	ALL SHOP BOLTS & FIELD BOLTS ARE N BOLTS U.S. N. ALL RUNNING DIMENSIONS FROM END OF MAIN MATERIAL. ALL VERTICAL SPACING OF HOLES TO BE 2" UNLESS NOTED. ALL SNIPPS TO BE 1/4 DIA RADIUS UNLESS NOTED. ALL COPS TO BE RADIOUS. "S" DENOTES "CONC SURFACE." THIS SIDE OF PLATE. HOLES IN END PLATES AND OUTSTANDING LEGS OF END CLIPS DESIGNATED "S" TO BE HORIZONTALLY SLOTTED 1/4" MORE THAN BOLT DIAMETER. ALL OPEN ENDS TO HAVE TOLERANCE OF (+/- .04") UNL. X INDICATES LAYOUT MARK FOR FABRICATION. ALL H.S. SHIP BOLTS TO BE TORQUED UNLESS NOTED. LB = L/WI, DTI = FL = F/LT MASH FL = MROUGHT MASH MEMBERS ARE TO BE ERRECTED SO THAT MARKED ENDS IN SAME LOCATION AS ON ERECTION DRAWING NO. E-PR-47
HOLES :	13/16 DIA UNL		3/4 A325N	
SURFACE PREPN				
& PAINT:	1/5-C-CARDOLINE C211 GREEN 2.5-4.0 MILS			
	DFT SSPC-SP 6 BLAST			

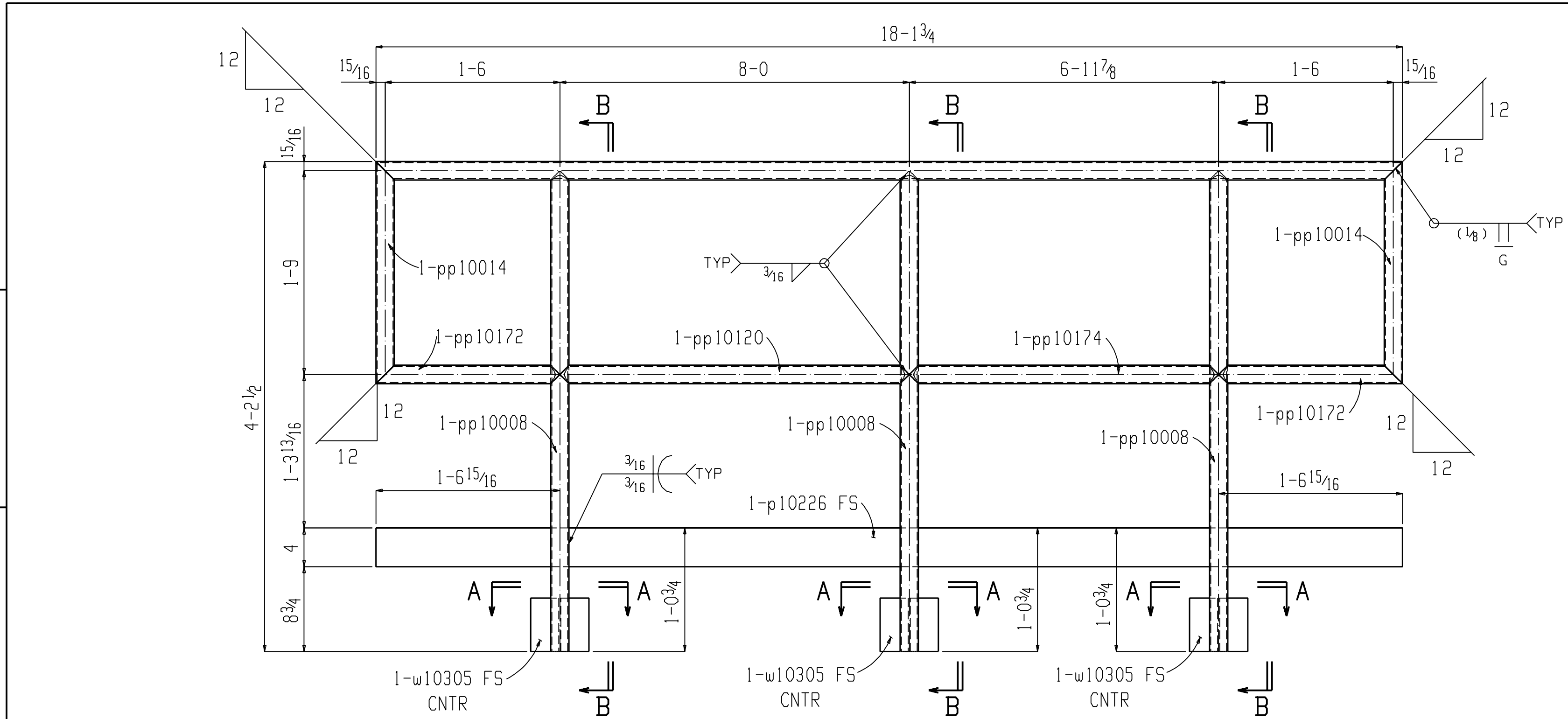
DESCRIPTION : FRAME DETAILS	DRAWN BY	DATE
	SS	
	CHECKED BY	DATE
	QJA	
	APPROVED BY	DATE
	O. A.	DATE
	JOB NO.	DRG. NO.
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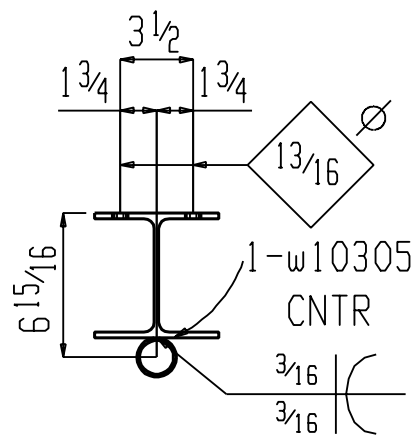
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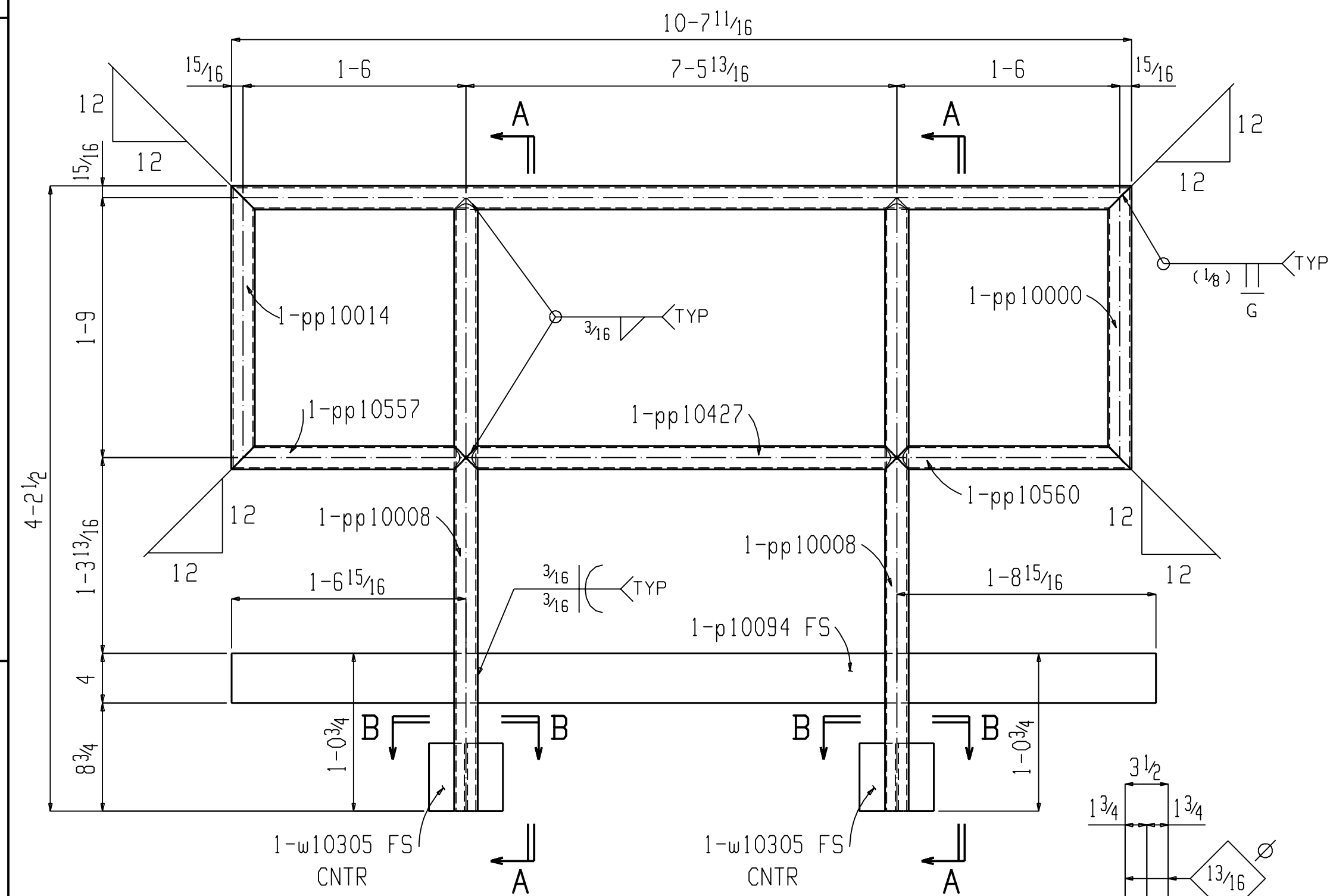
ONE HANDRAIL 403270HR1



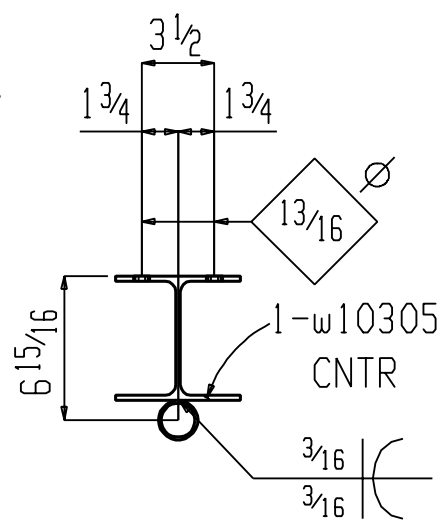
Section A-A
403270HR1

Section B-B

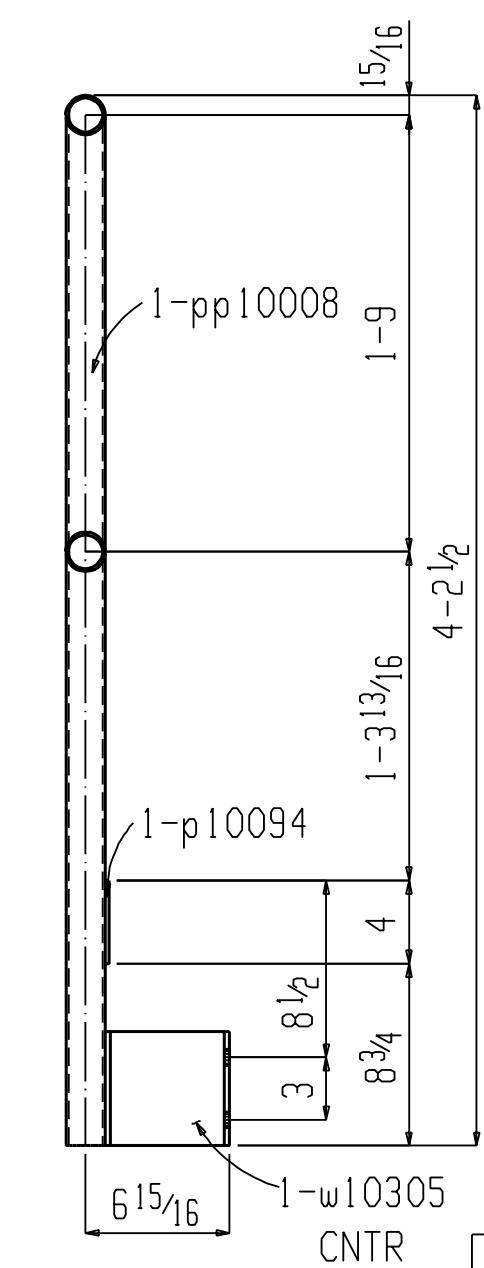
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ONE HANDRAIL 403270HR2



Section B-B
403270HR2



Section A-A

403270HR2

SHOP NOTE:
1) DO NOT FINISH PAINT WITHIN 3" OF ALL BOLT HOLES FOR SLIP CRITICAL CONNECTION (UNO)
2) THREADED PART OF THE INSTALLED BOLT SHOULD BE EXCLUDED IN THE SHEAR PLANE

REVIEWED FOR CAYUGA GENERATING STATION
SCR PROJECT
PROJECT NO. 12698-101,102
SARGENT & LUNDY LLC

1. ☐ No exception taken. Contractor may proceed with fabrication or construction.
2. ☐ Revise as noted and resubmit. Contractor can proceed based on making revisions noted.
3. ☐ Results do not meet specification requirements. Revise and resubmit. Hold fabrication.
4. ☐ For information only.

ANY ACTION SHOWN ABOVE IS SUBJECT TO THE TERMS OF THE CONTRACT AND DOES NOT RELIEVE CONTRACTOR FROM HIS OBLIGATIONS UNDER THE CONTRACT INCLUDING DESIGN AND DETAILING.

FOR: STEEL SHOP AND ERECTION DRAWINGS
EQUIPMENT NO: _____
BY: _____
SPEC. NO. P-898 DATE: _____

BILL OF MATERIAL

BLOCK	BLOCK			NO.		LENGTH	C.S.	CUT FROM	PROC.		Weight	PAY
QTY.	NO.	MARK	PCS.	SHAPE	FT. IN.	NO.	NO.	FT. IN.	PG - LN	REMARKS	Total	ITEM
1	2303	1	403270HR1	ONE	HANDRAIL						210	
		2	403270HR1	1	HSS1.900x0.145	18	1 3/4			B2E A500B	49	
		3	w10305	3	W6x15	0	5 1/2			A36	21	
		4	pp10120	1	HSS1.900x0.145	8	0			P2E A500B	22	
		5	pp10174	1	HSS1.900x0.145	6	1 1/4			P2E A500B	19	
		6	pp10008	3	HSS1.900x0.145	4	1 1/2			P1E A500B	34	
		7	pp10014	2	HSS1.900x0.145	1	10 3/4			B2E A500B	10	
		8	pp10172	2	HSS1.900x0.145	1	6 1/2			B1E P1E A500B	9	
		9	p10226	1	PL 3/16x4	18	1 3/4			NH A36	46	
		10										
		11										
		12										
		13										
		14										
1	2303	15	403270HR2	ONE	HANDRAIL						131	
		16	403270HR2	1	HSS1.900x0.145	10	7 1/16			B2E A500B	29	
		17	w10305	2	W6x15	0	5 1/2			A36	14	
		18	pp10427	1	HSS1.900x0.145	7	5 1/16			P2E A500B	20	
		19	pp10008	2	HSS1.900x0.145	4	1 1/2			P1E A500B	22	
		20	pp10000	1	HSS1.900x0.145	1	10 3/4			B2E A500B	5	
		21	pp10014	1	HSS1.900x0.145	1	10 3/4			B2E A500B	5	
		22	pp10557	1	HSS1.900x0.145	1	6 1/2			B1E P1E A500B	4	
		23	pp10560	1	HSS1.900x0.145	1	6 1/2			B1E P1E A500B	4	
		24	p10094	1	PL 3/16x4	10	9 1/16			NH A36	28	
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ENG. REF. DRG. No: S-9630

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O	ORIGINAL ISSUE	01/25	NA	NRD	
REV	REMARKS	DATE	DWN	CHK	APP

FOR APPROVAL

GENERAL NOTES

MATERIAL :	AS NOTED	ELECTRODES :	E70LH	ALL SHOP BOLTS ARE TO BOLTS U.B.N. ALL RUNNING DIMENSIONS FROM END OF MAIN MATERIAL. ALL VERTICAL SPACING OF HOLES TO BE 3" UNLESS NOTED. ALL SHIPS TO BE 1/4" UNLESS NOTED. ALL COPIES TO BE RADIUSED. Ø - DENOTES "CONTACT SURFACE" THIS SIZE OF PLATE. HOLES IN END PLATES AND OUTSTANDING LEGS OF END CLIPS DESIGNATED "S" TO BE HORIZONTALLY SLOTTED 1/4" MORE THAN BOLT DIAMETER. ALL OPEN ENDS TO HAVE TOLERANCE OF (+/- 1/4"). UNO. X INDICATES LAYOUT MARK FOR FABRICATION. ALL H.S. SHOP BOLTS TO BE TORQUED UNLESS NOTED. LD = LIM,DTI, HD = FLT WASHER, FL = BROUGHT WASHER MEMBERS ARE TO BE ERECTED SO THAT MARKED END IS IN SAME LOCATION AS ON ERECTION DRAWING No. E-9630
HOLES :	15 1/16 DIA UNO	BOLTS :	7/8 Ø A325 (UNO)	
SURFACE PREPN:	SSPC-SP6			
PAINT :	PPG- Amercoat 68HS Organic Zinc Primer (3-5 Mils DFT) PPG- Amercoat 450H Topcoat (4-5 Mils DFT)			
TOP COAT :	GRAY			
DESCRIPTION :	HANDRAIL DETAILS			

DRAWN BY	DATE
NA	
CHECKED BY	DATE
NRD	
APPROVED BY	DATE
O. A.	
JOB NO.	DRG. NO.
3526	403270

REV. 0

JOB NO.	DRG NO.
3526	403270