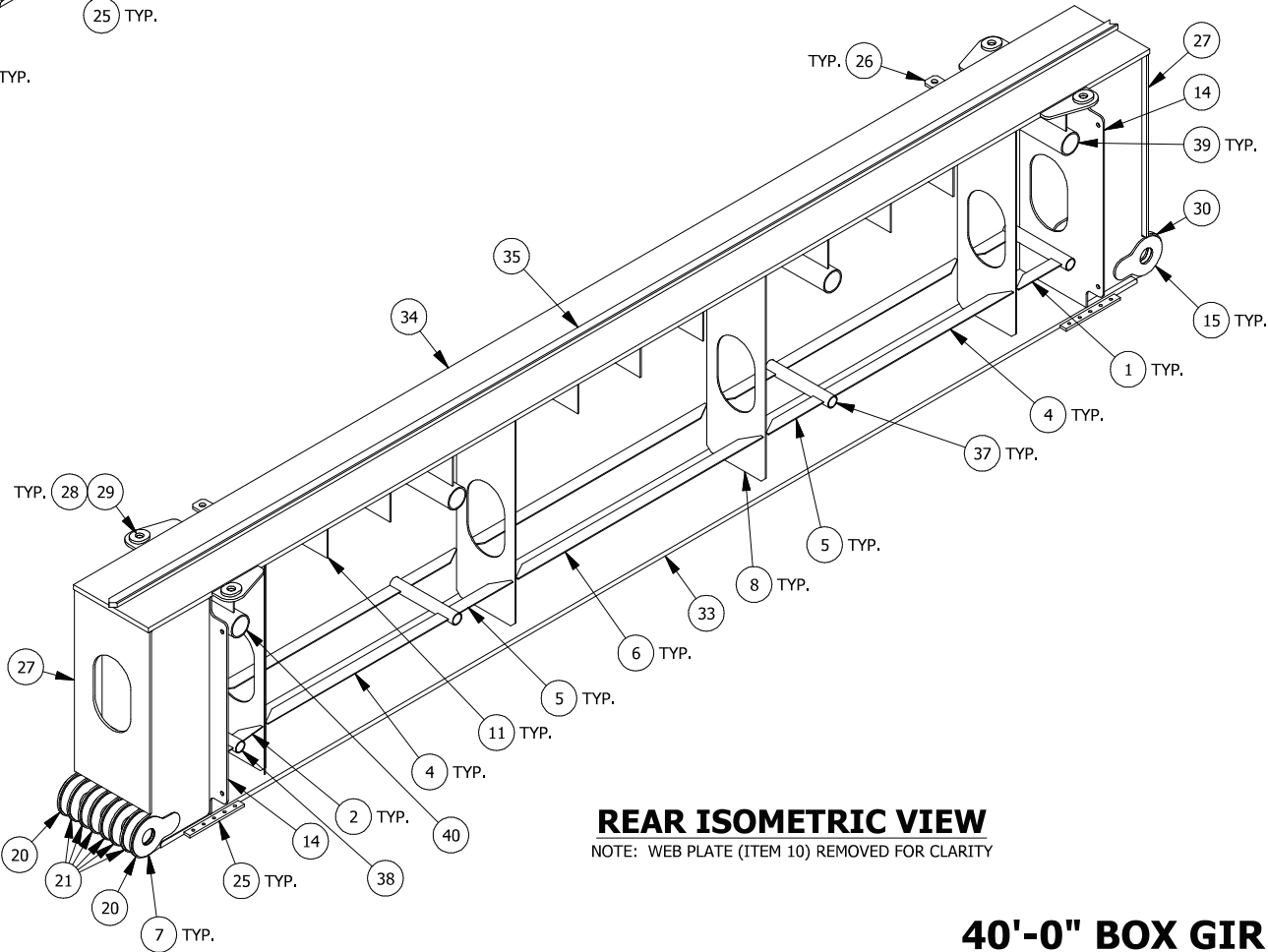


FRONT ISOMETRIC VIEW



REAR ISOMETRIC VIEW

NOTE: WEB PLATE (ITEM 10) REMOVED FOR CLARITY

40'-0" BOX GIRDER

APPROX. FABRICATED WEIGHT: 43604 LBS.±
APPROX. FINISHED WEIGHT: 43541 LBS.±
(8) REQUIRED AS SHOWN

1

BILL OF MATERIALS						
ITEM	QTY	DESCRIPTION	UNIT WEIGHT	QTY WEIGHT	MATERIAL	REMARKS
1	2	PL3/8" x 5" x 20 1/2"	9.43	18.85	ASTM A514	Fy=100ksi, Fu=110ksi
2	2	PL3/8" x 5" x 11 9/16"	4.54	9.08	ASTM A514	Fy=100ksi, Fu=110ksi
3	2	PL3/8" x 5" x 11 7/16"	4.47	8.93	ASTM A514	Fy=100ksi, Fu=110ksi
4	4	PL3/8" x 5" x 86 1/2"	44.52	178.08	ASTM A514	Fy=100ksi, Fu=110ksi
5	4	PL3/8" x 5" x 26 1/2"	12.62	50.46	ASTM A514	Fy=100ksi, Fu=110ksi
6	2	PL3/8" x 5" x 117 1/2"	59.53	119.06	ASTM A514	Fy=100ksi, Fu=110ksi
7	16	PL3/8" x 15" x 22 1/2"	22.77	364.37	ASTM A514	Fy=100ksi, Fu=110ksi
8	4	PL1/2" x 28" x 90"	287.72	1150.88	ASTM A514	Fy=100ksi, Fu=110ksi
9	1	PL1/2" x 90" x 179 3/8" (APPROX. FLAT)	5308.75	5308.75	ASTM A514	Fy=100ksi, Fu=110ksi
10	1	PL1/2" x 90" x 179 3/8" (APPROX. FLAT)	5308.75	5308.75	ASTM A514	Fy=100ksi, Fu=110ksi
11	11	PL1/2" x 16" x 28"	61.19	673.10	ASTM A514	Fy=100ksi, Fu=110ksi
12	4	PL1/2" x 4" x 5"	2.84	11.34	ASTM A514	Fy=100ksi, Fu=110ksi
13	1	PL5/8" x 11" x 477"	930.03	930.03	ASTM A514	Fy=100ksi, Fu=110ksi
14	2	PL3/4" x 44" x 90"	713.23	1426.46	ASTM A514	Fy=100ksi, Fu=110ksi
15	8	PL3/4" x 15" x 22 1/2"	45.55	364.37	ASTM A514	Fy=100ksi, Fu=110ksi
16	4	PL1/2" x 4" x 17"	9.57	38.29	ASTM A514	Fy=100ksi, Fu=110ksi
17	1	PL3/4" x 6" x 28 1/2"	36.16	36.16	ASTM A514	Fy=100ksi, Fu=110ksi
18	2	PL1/2" x 4" x 57 3/4"	32.61	65.23	ASTM A514	Fy=100ksi, Fu=110ksi
19	1	PL3/4" x 4" x 28 1/2"	24.25	24.25	ASTM A514	Fy=100ksi, Fu=110ksi
20	2	PL3/4" x 37 5/8" x 92 1/2"	562.57	1125.14	ASTM A514	Fy=100ksi, Fu=110ksi
21	6	PL3/4" x 34" x 37 5/8"	130.40	782.39	ASTM A514	Fy=100ksi, Fu=110ksi
22	1	PL3/4" x 6" x 33 7/8"	43.02	43.02	ASTM A514	Fy=100ksi, Fu=110ksi
23	2	PL1/2" x 4" x 57 3/4"	32.61	65.23	ASTM A514	Fy=100ksi, Fu=110ksi
24	1	PL3/4" x 4" x 33 7/8"	28.82	28.82	ASTM A514	Fy=100ksi, Fu=110ksi
25	4	PL1" x 3" x 26"	20.86	83.45	ASTM A514	Fy=100ksi, Fu=110ksi
26	2	PL1" x 5 1/4" x 6"	7.52	15.04	ASTM A514	Fy=100ksi, Fu=110ksi
27	2	PL1" x 36" x 75 1/2"	637.40	1274.80	ASTM A514	Fy=100ksi, Fu=110ksi
28	4	PL1" x 8 1/2" x 22"	38.89	155.57	ASTM A514	Fy=100ksi, Fu=110ksi
29	8	PL1" x 2 7/8" x 7 1/2"	8.73	69.84	ASTM A514	Fy=100ksi, Fu=110ksi
30	2	PL1 1/2" x 37 5/8" x 92 1/2"	1125.14	2250.28	ASTM A514	Fy=100ksi, Fu=110ksi
31	2	PL1 1/2" x 34" x 37 5/8"	260.80	521.59	ASTM A514	Fy=100ksi, Fu=110ksi
33	1	PL2" x 36" x 468"	9551.78	9551.78	ASTM A514	Fy=100ksi, Fu=110ksi
34	1	PL2" x 36" x 480"	9801.19	9801.19	ASTM A514	Fy=100ksi, Fu=110ksi
35	1	PL2" x 4" x 481 3/4"	1075.58	1075.58	ASTM A514	Fy=100ksi, Fu=110ksi
36	7	PIPE Ø2" NOM., SCH. 40 (Ø2.375" x 0.154" WALL) x 8 1/2" LONG	2.59	18.13	ASTM A53 GR.B	Fy=35ksi, Fu=60ksi
37	3	PIPE Ø4" NOM., SCH. 80 (Ø4.5" x 0.337" WALL) x 32" LONG	40.00	119.99	ASTM A53 GR.B	Fy=35ksi, Fu=60ksi
38	1	PIPE Ø4" NOM., SCH. 80 (Ø4.5" x 0.337" WALL) x 34" LONG	42.50	42.50	ASTM A53 GR.B	Fy=35ksi, Fu=60ksi
39	3	PIPE Ø8" NOM., SCH. 80 (Ø8.625" x 0.5" WALL) x 32" LONG	115.82	347.47	ASTM A53 GR.B	Fy=35ksi, Fu=60ksi
40	1	PIPE Ø8" NOM., SCH. 80 (Ø8.625" x 0.5" WALL) x 34" LONG	123.06	123.06	ASTM A53 GR.B	Fy=35ksi, Fu=60ksi
41	7	C 3x4.1 x 8 1/2" LONG	3.18	22.28	ASTM A36	Fy=36ksi, Fu=58ksi

NOTES:

- THIS DRAWING REPRESENTS THE ORIGINAL AS FABRICATED STATE OF SME40-1 THRU 8 GIRDERS.
- QUANTITIES SHOWN IN BILL OF MATERIALS ARE FOR ONE WELDMENT. ACTUAL QUANTITIES SHALL BE MULTIPLIED BY THE NUMBER REQUIRED.
- PLATE EDGE PREP DETAILS FOR WELDING & FIT-UP ARE PRELIMINARY OR HAVE NOT BEEN SHOWN. FABRICATOR IS RESPONSIBLE FOR FINAL EDGE PREP DETAILS AND ASSOCIATED PLATE DIMENSIONS FOR CHOSEN WELD METHOD TO MEET THE INDICATED WELDING AND FIT-UP REQUIREMENTS.
- 110 KSI MINIMUM TENSILE STRENGTH ELECTRODES UNLESS NOTED OTHERWISE.

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TOLERANCES (U.N.O.)


METRIC
.X ±.5mm
.XX ±.10mm
.XXX ±.01mm
ENGLISH
.X ±.05"
.XX ±.015"
.XXX ±.005"
.XXXX ±.0005"
ANGULAR: ± 0.25°
LINEAR FRACTIONAL: ± 1/16"
HOLES FRACTIONAL: +1/32" - 0"

HEAT TREATMENT:
ROCKWELL C ±4
BRINELL ±15

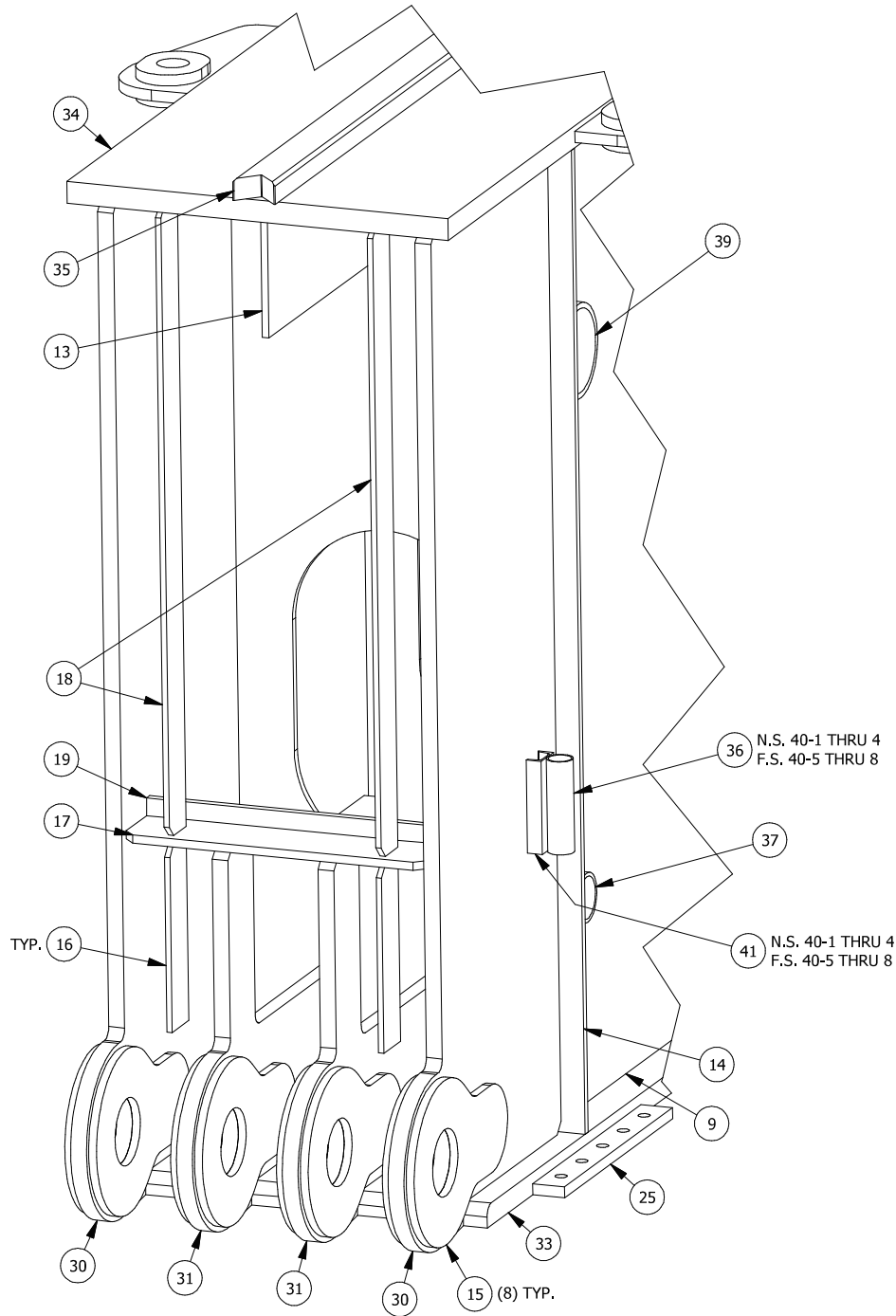
THIRD ANGLE PROJECTION



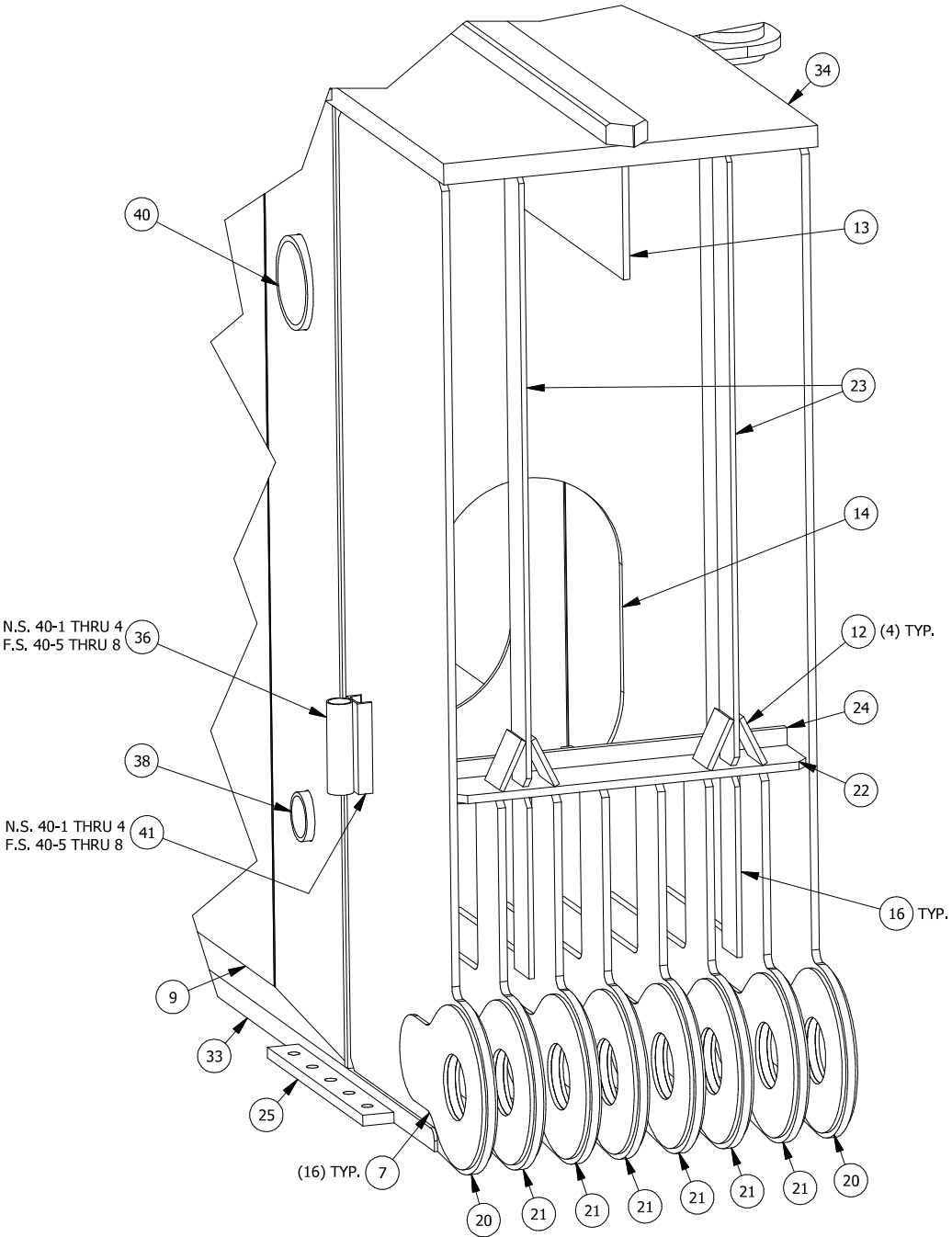
DO NOT SCALE OFF OF DRAWING

1	UPDATED WEIGHTS		11/13/2013	MF	11/13/13	OPH	11/13/13	OPH
0	ORIGINAL ISSUE		8/9/13	MWJ	8/19/13	BPT	8/13/19	OPH
NO.	REVISIONS		DATE	BY	DATE	BY	DATE	BY
			DRAWN		CHECKED		APPROVED	
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SME40 RECORD DRAWING FABRICATION ISOMETRIC VIEWS 40'-0" BOX GIRDER								
SCALE: (U.N.O)		SIZE	PROJECT No.		DWG. No.		SHEET	REV.
NTS		B			SME40		1 of 21	1


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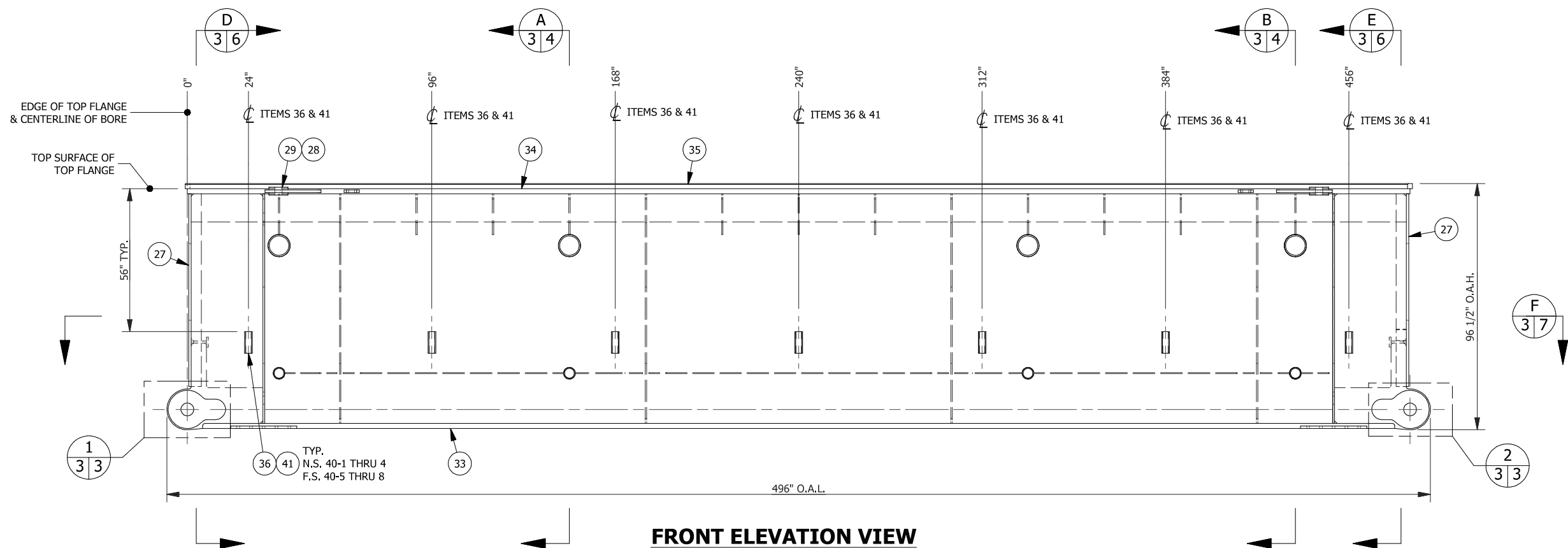
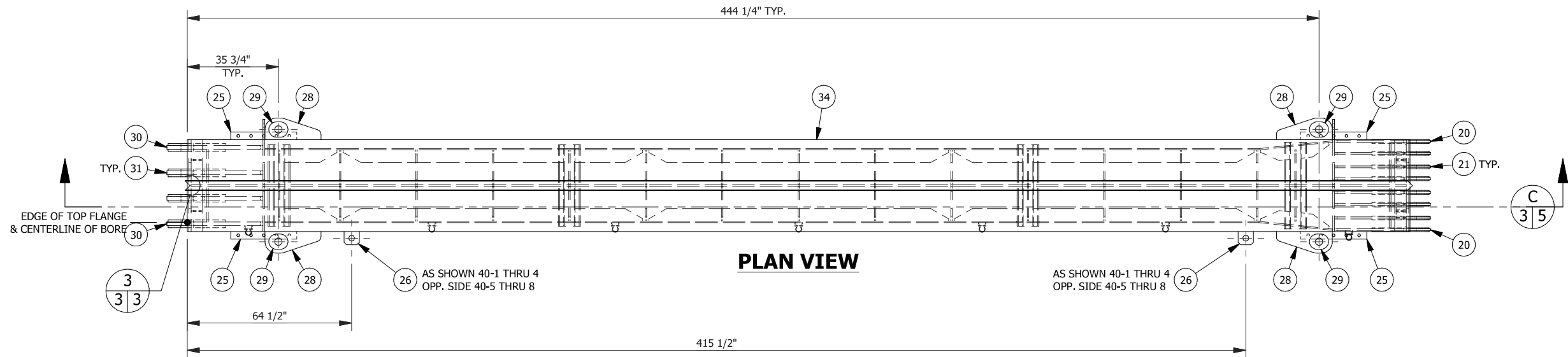


4 LUG END ISOMETRIC DETAIL
NOTE: END PLATE (ITEM 27) HAS BEEN REMOVED FOR CLARITY

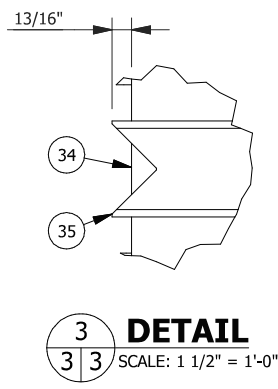
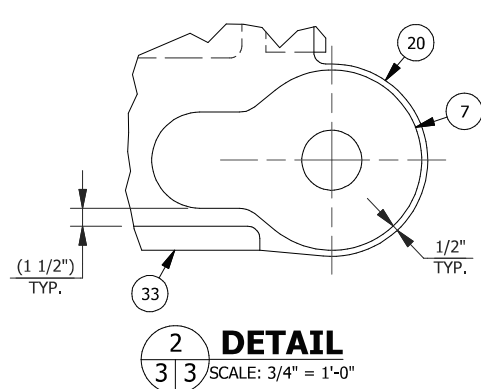
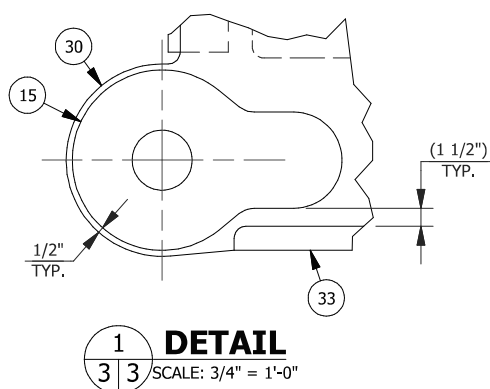
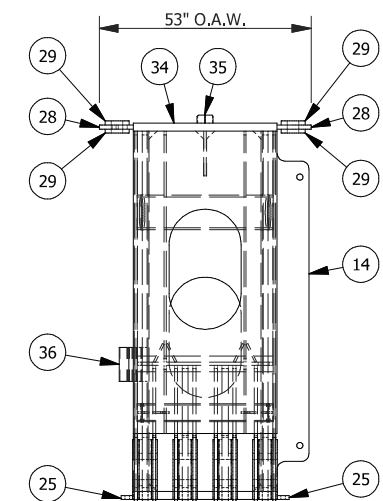



8 LUG END ISOMETRIC DETAIL
NOTE: END PLATE (ITEM 27) HAS BEEN REMOVED FOR CLARITY

0	ORIGINAL ISSUE	8/9/13	MWJ	8/19/13	BPT	8/13/19	OPH
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SME40 RECORD DRAWING FABRICATION ISOMETRIC DETAIL VIEWS 40'-0" BOX GIRDER							
SCALE: (U.N.O)	SIZE	PROJECT No.	DWG. No.	SHEET	REV.		
NTS	B		SME40	2 of 21	1		

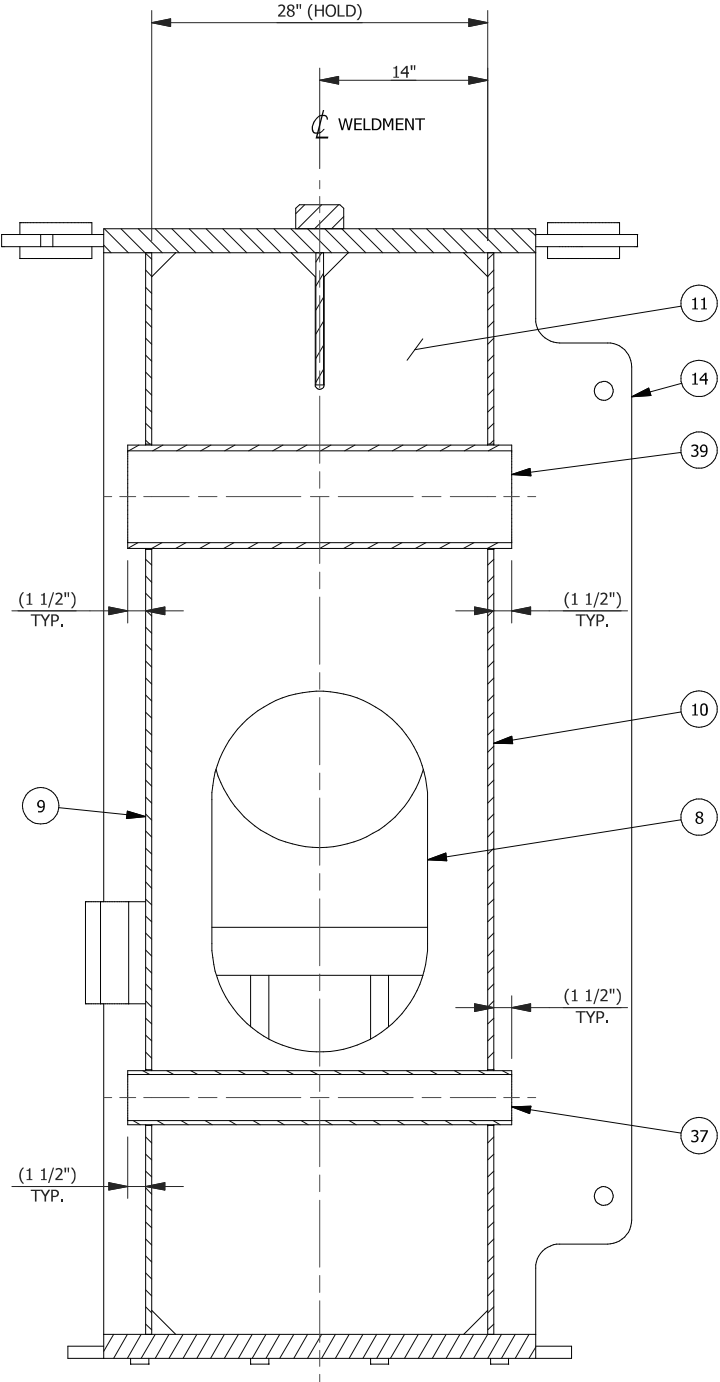


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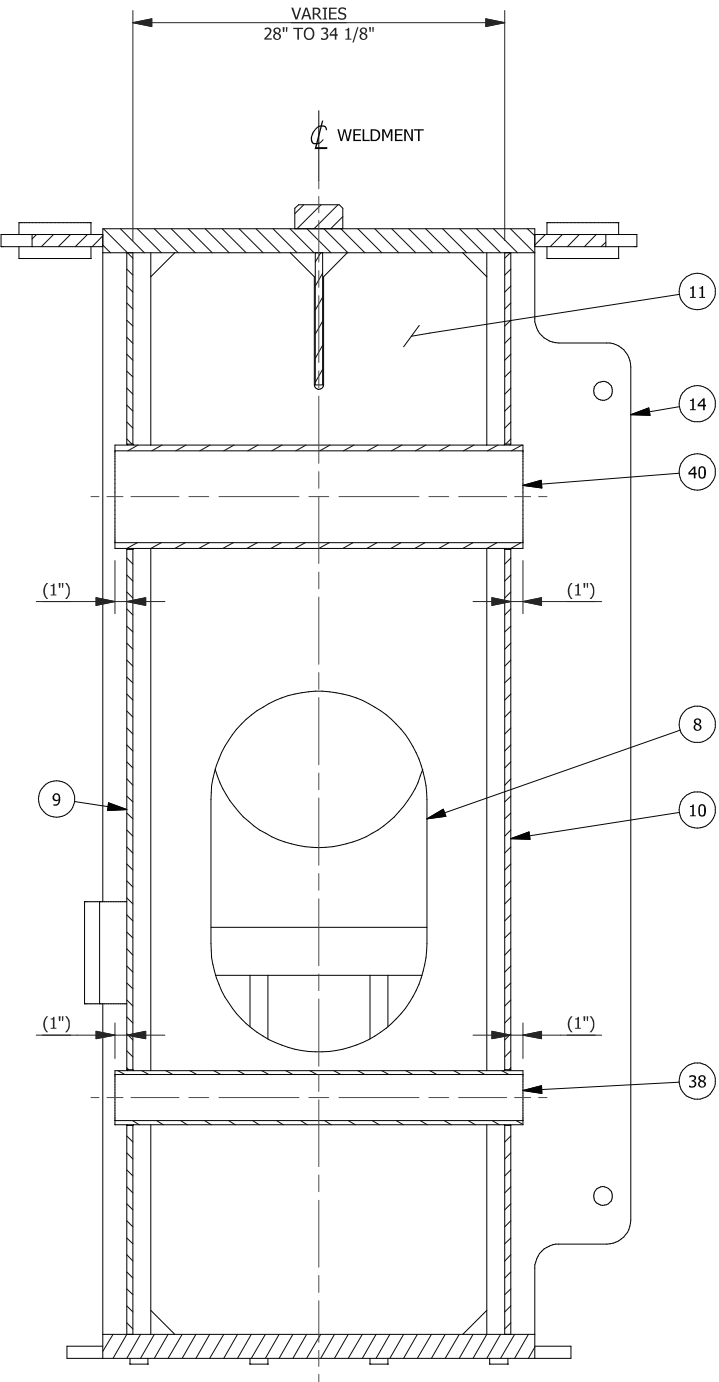


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SME40 RECORD DRAWING FABRICATION ORTHO & DETAIL VIEWS 40'-0" BOX GIRDER									
SCALE: (U.N.O) 1/4"=1'-0"		SIZE B		PROJECT No.		DWG. No. SME40		SHEET 3 of 21	
								REV. 1	


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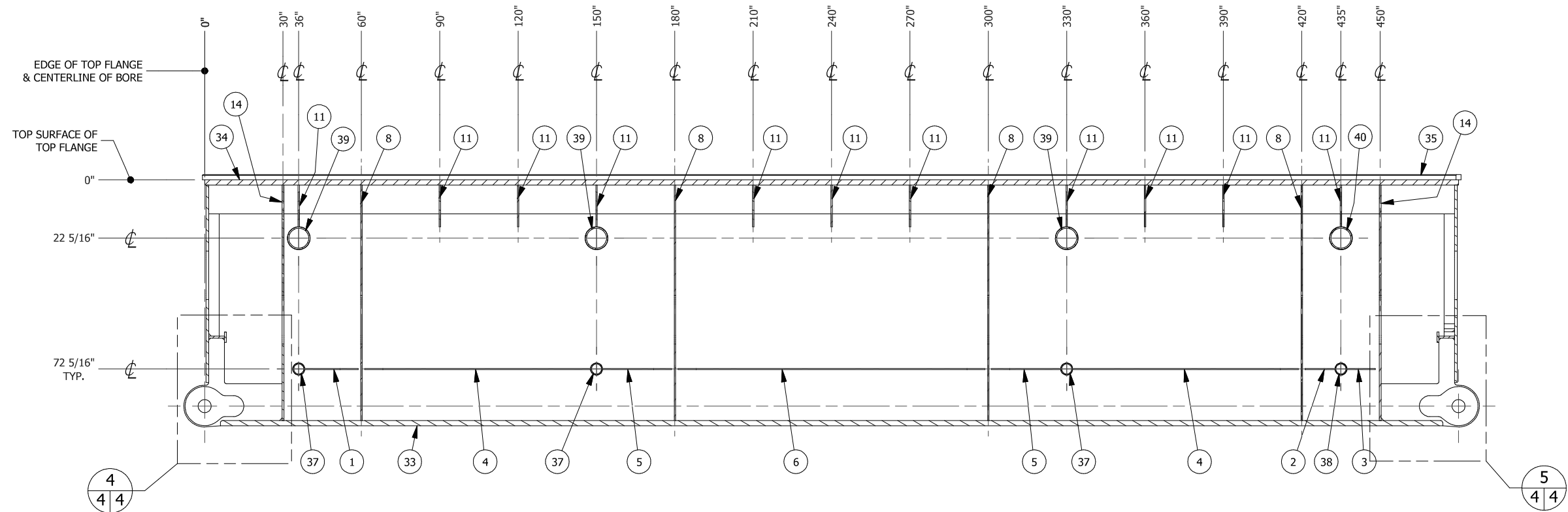


A SECTION
3 4 SCALE: 3/4" = 1'-0"

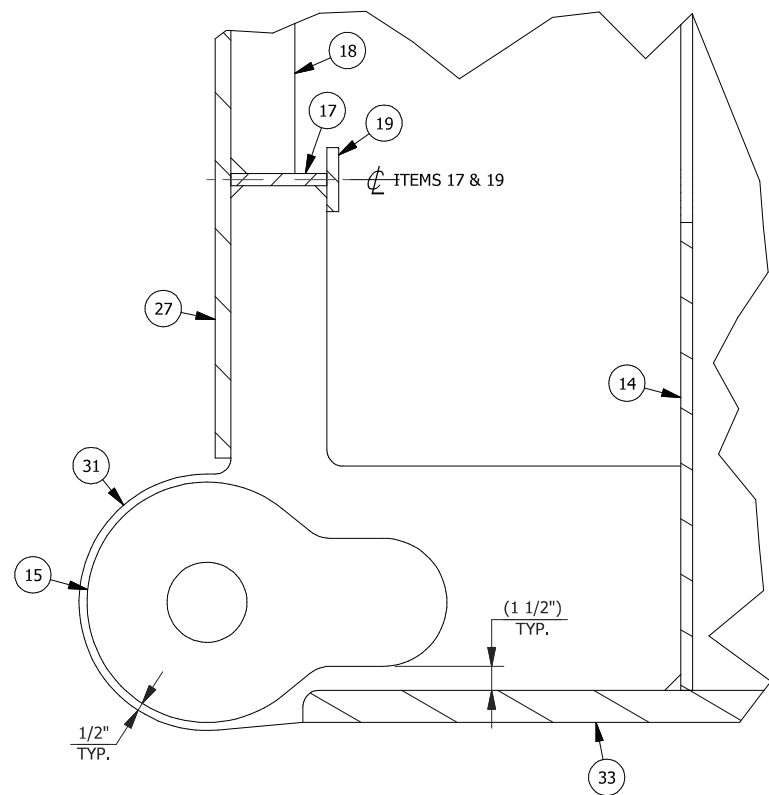


B SECTION
3 4 SCALE: 3/4" = 1'-0"

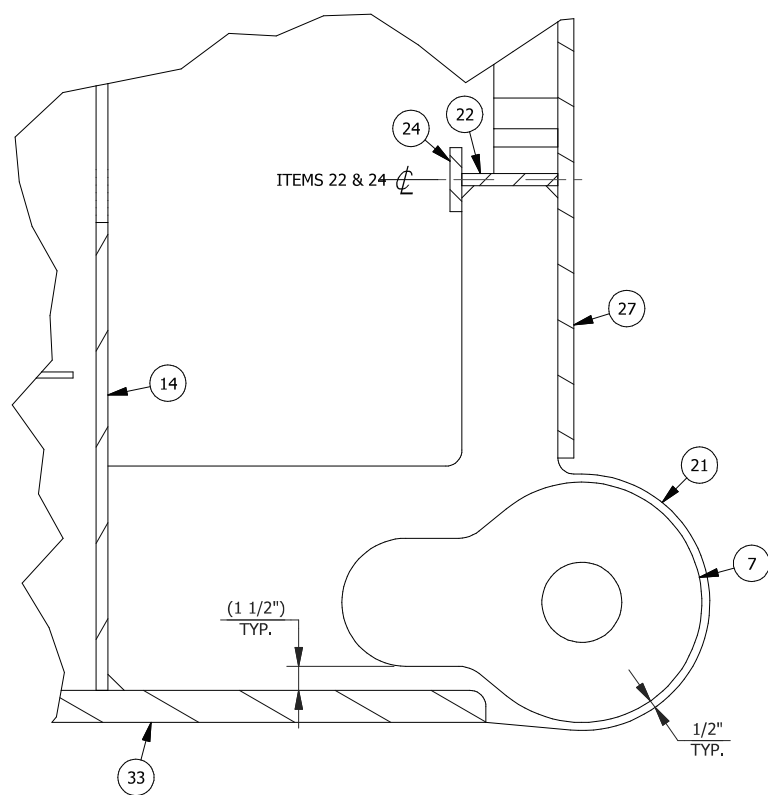
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SCALE: (U.N.O) AS NOTED		SIZE B	PROJECT No.		DWG. No. SME40		SHEET 4 of 21	REV. 1



SECTION
SCALE: 1/4" = 1'-0"




DETAIL
SCALE: 1" = 1'-0"

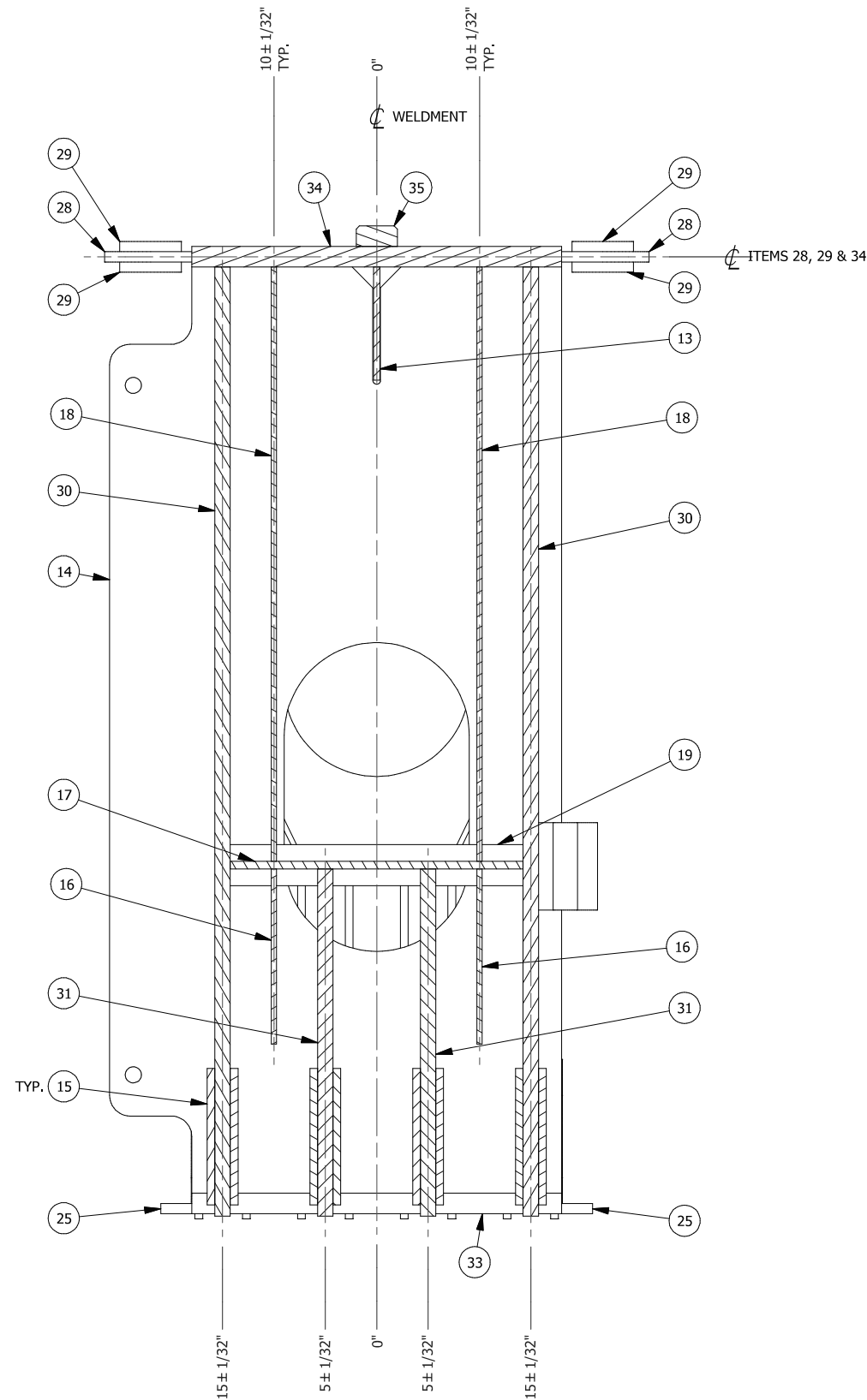


DETAIL
SCALE: 1" = 1'-0"

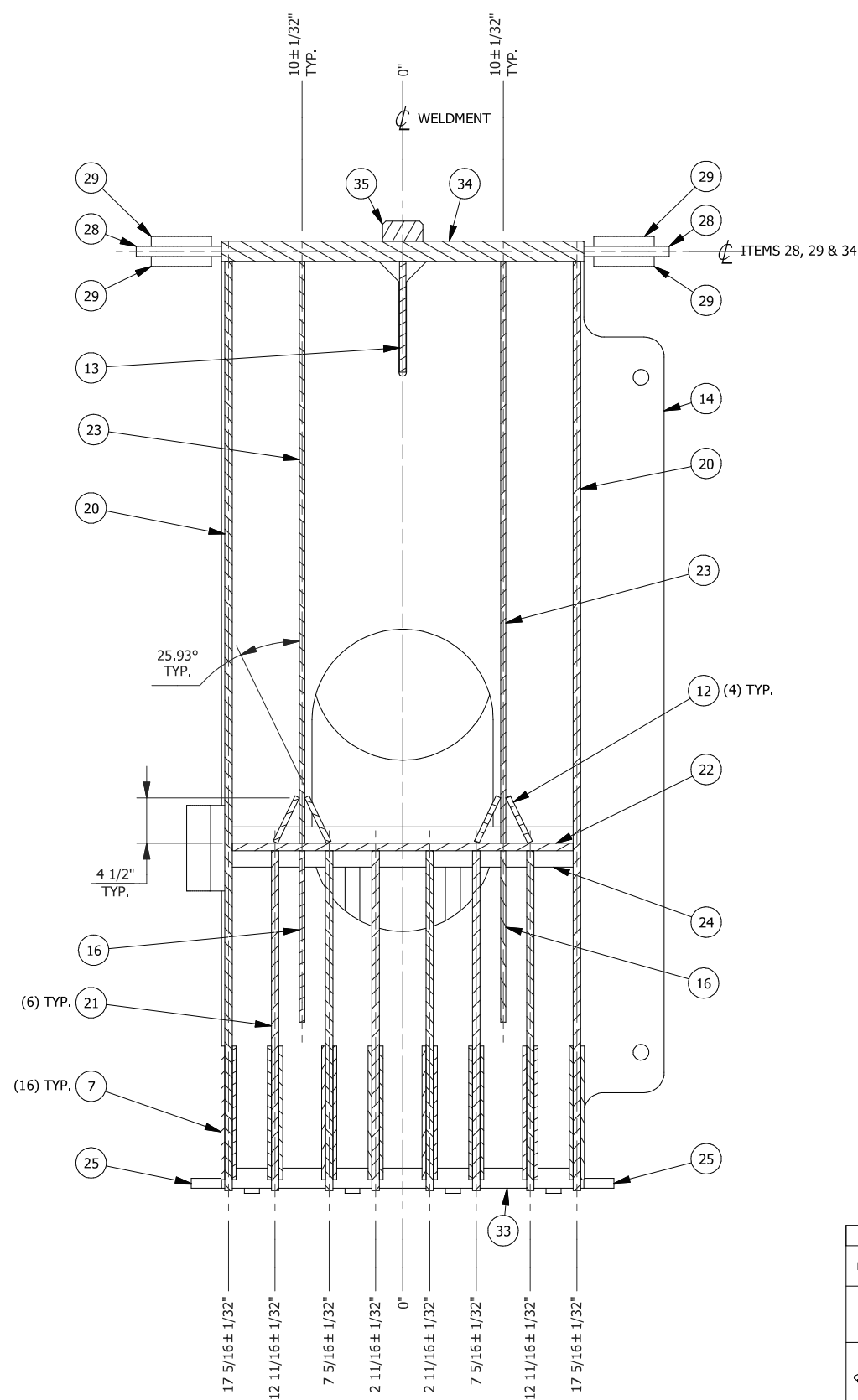
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SME40 RECORD DRAWING FABRICATION SECTION & DETAIL VIEWS 40'-0" BOX GIRDER							
SCALE: (U.N.O) AS NOTED	SIZE B	PROJECT No.	DWG. No. SME40	SHEET 5 of 21	REV. 1		


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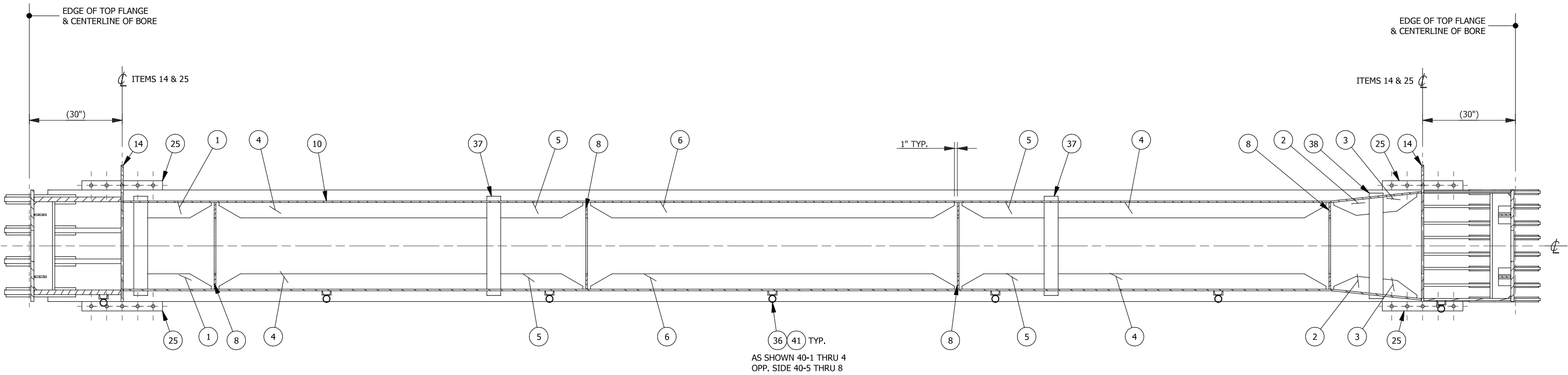


D SECTION
3 6 SCALE: 3/4" = 1'-0"




E SECTION
3 6 SCALE: 3/4" = 1'-0"

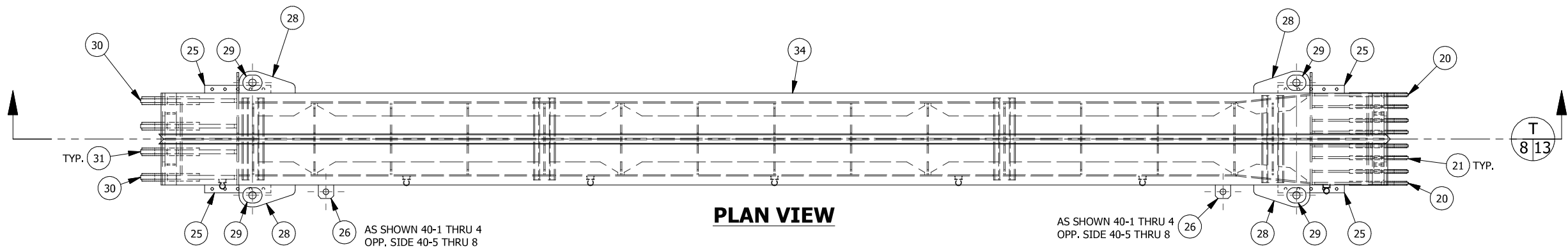
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NO.	REVISIONS	DATE	BY	DATE	BY	DATE	BY
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SME40 RECORD DRAWING FABRICATION SECTION VIEWS 40'-0" BOX GIRDER							
SCALE: (U.N.O) AS NOTED	SIZE B	PROJECT No.	DWG. No. SME40	SHEET 6 of 21	REV. 1		



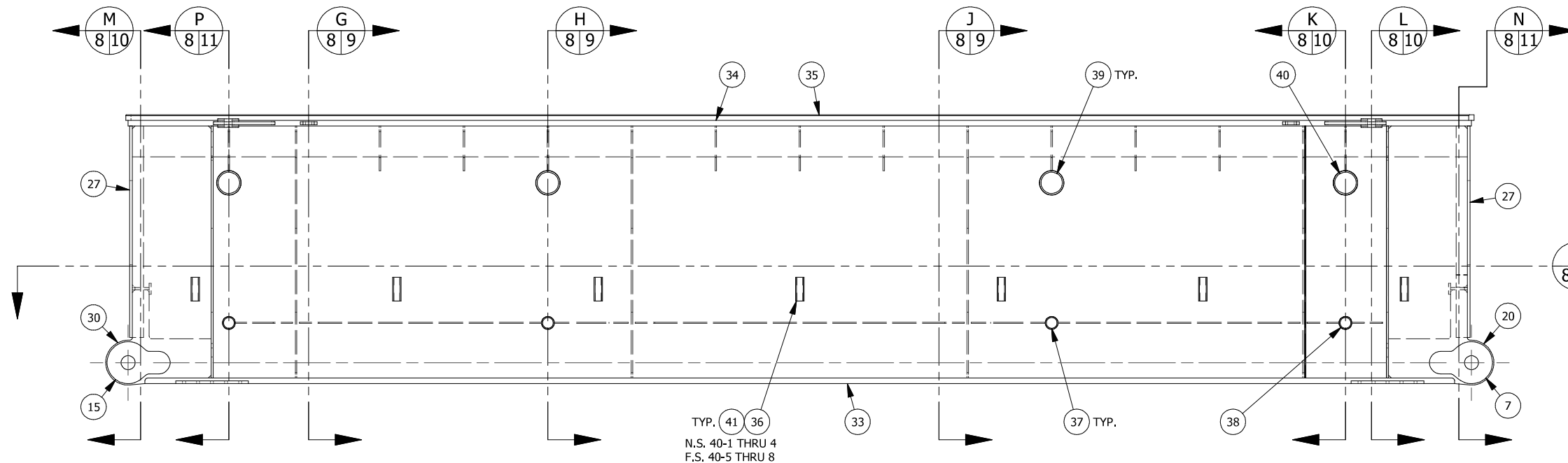
F
3 7 **SECTION**
SCALE: 3/8" = 1'-0"

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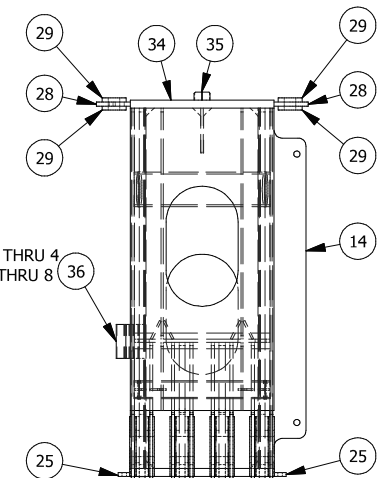
0	ORIGINAL ISSUE		8/9/13	MWJ	8/19/13	BPT	8/13/19	OPH
NO.	REVISIONS		DATE	BY	DATE	BY	DATE	BY
			DRAWN		CHECKED		APPROVED	
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SME40 RECORD DRAWING FABRICATION SECTION VIEW 40'-0" BOX GIRDER								
SCALE: (U.N.O)	SIZE	PROJECT No.	DWG. No.			SHEET		REV.
AS NOTED	B		SME40			7 of 21		1



PLAN VIEW




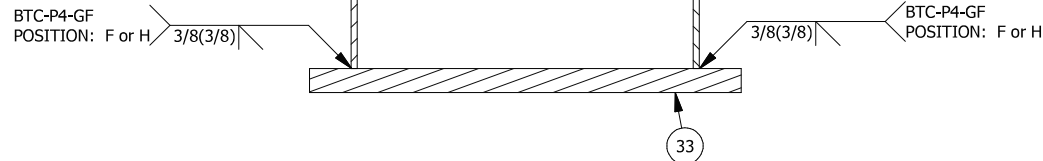
FRONT ELEVATION VIEW



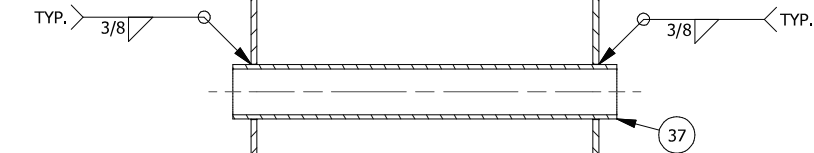
END ELEVATION VIEW

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<div> <div>SME40 RECORD DRAWING</div> <div>WELDING ORTHO VIEWS</div> <div>40'-0" BOX GIRDER</div> </div>							
SCALE: (U.N.O)	SIZE	PROJECT No.	DWG. No.	SHEET	REV.		
1/4"=1'-0"	B			SME40 8 of 21	1		



SECTION
SCALE: 3/4" = 1'-0"




SECTION
 SCALE: 3/4" = 1'-0"




SECTION
SCALE: 3/4" = 1'-0"

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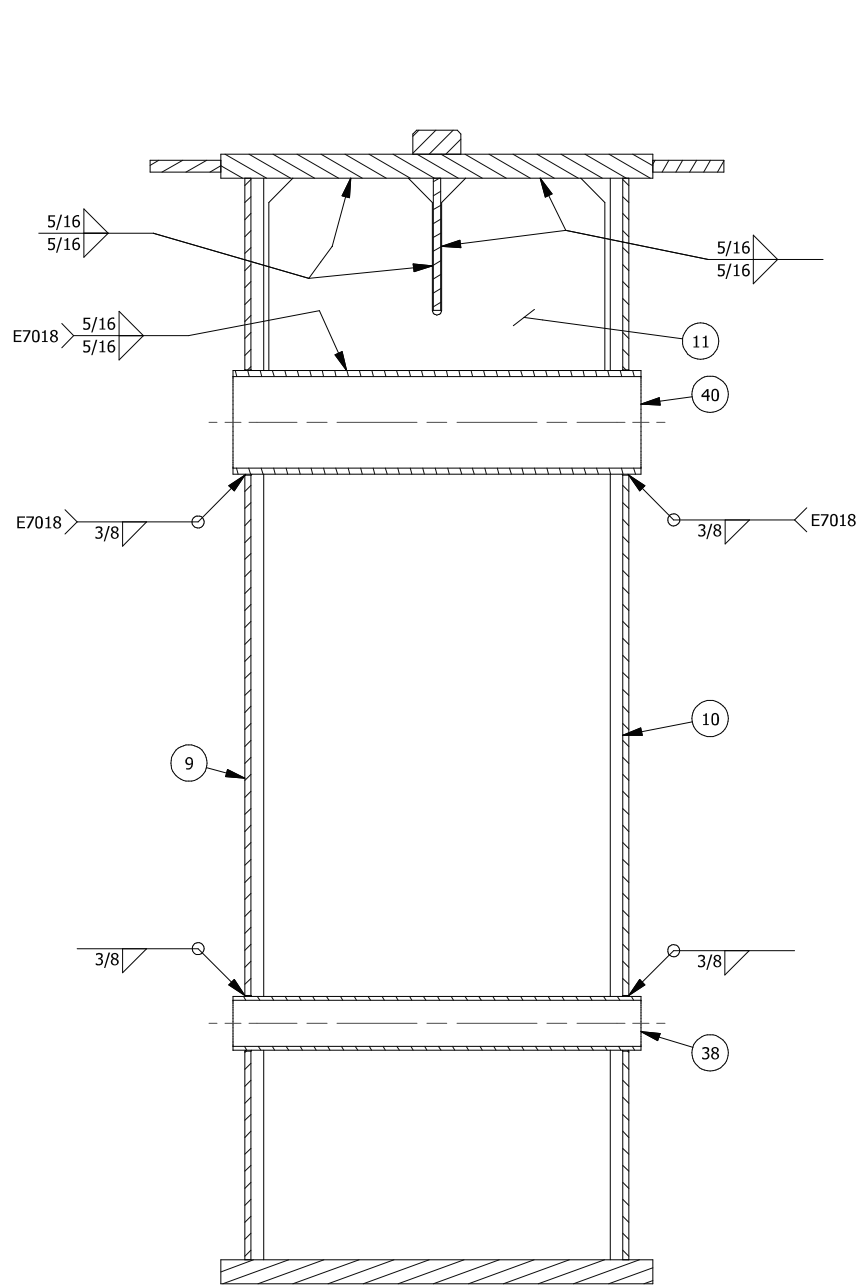
POWER CONSTRUCTORS

SME40 RECORD DRAWING

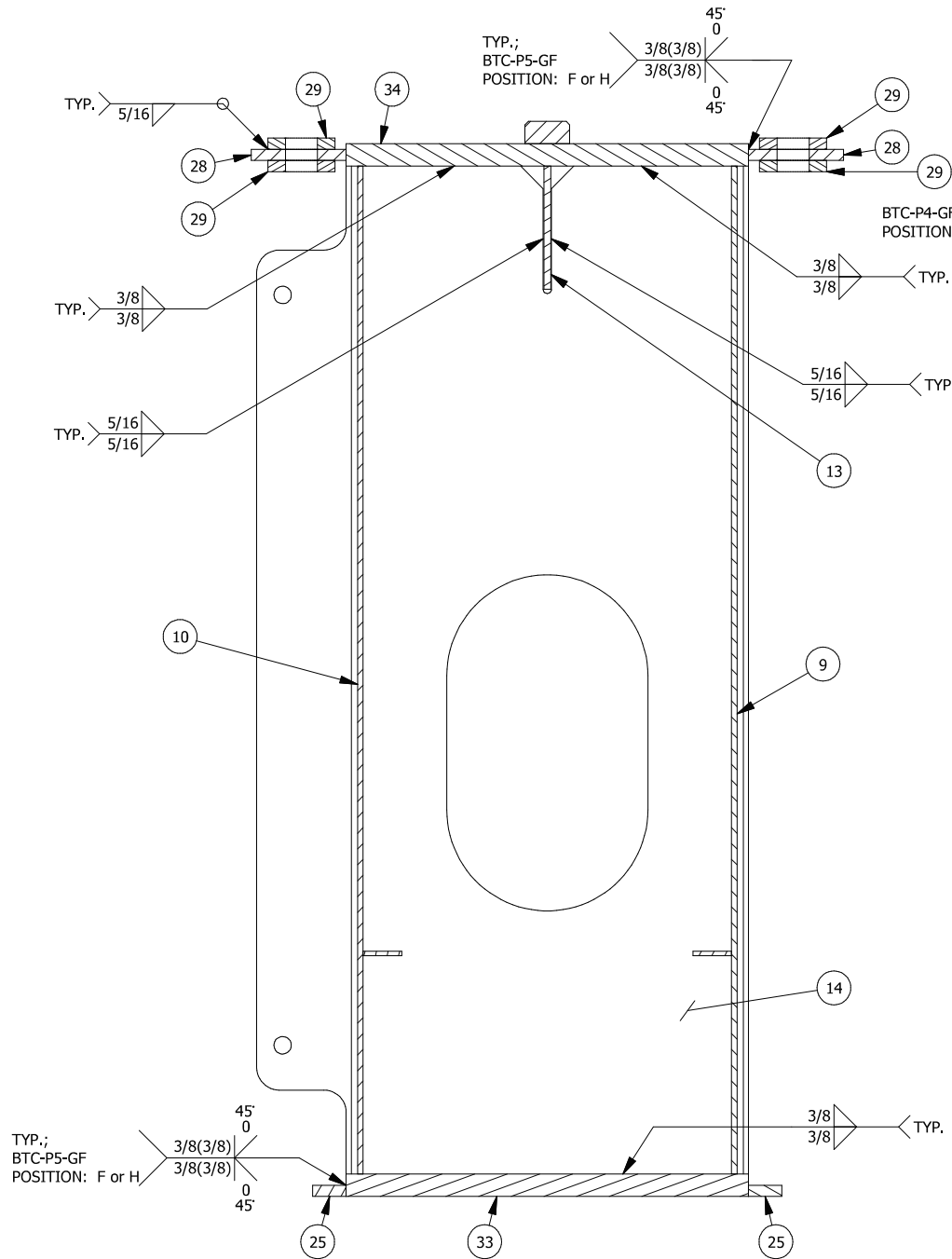
WELDING SECTION VIEWS

40'-0" BOX GIRDER

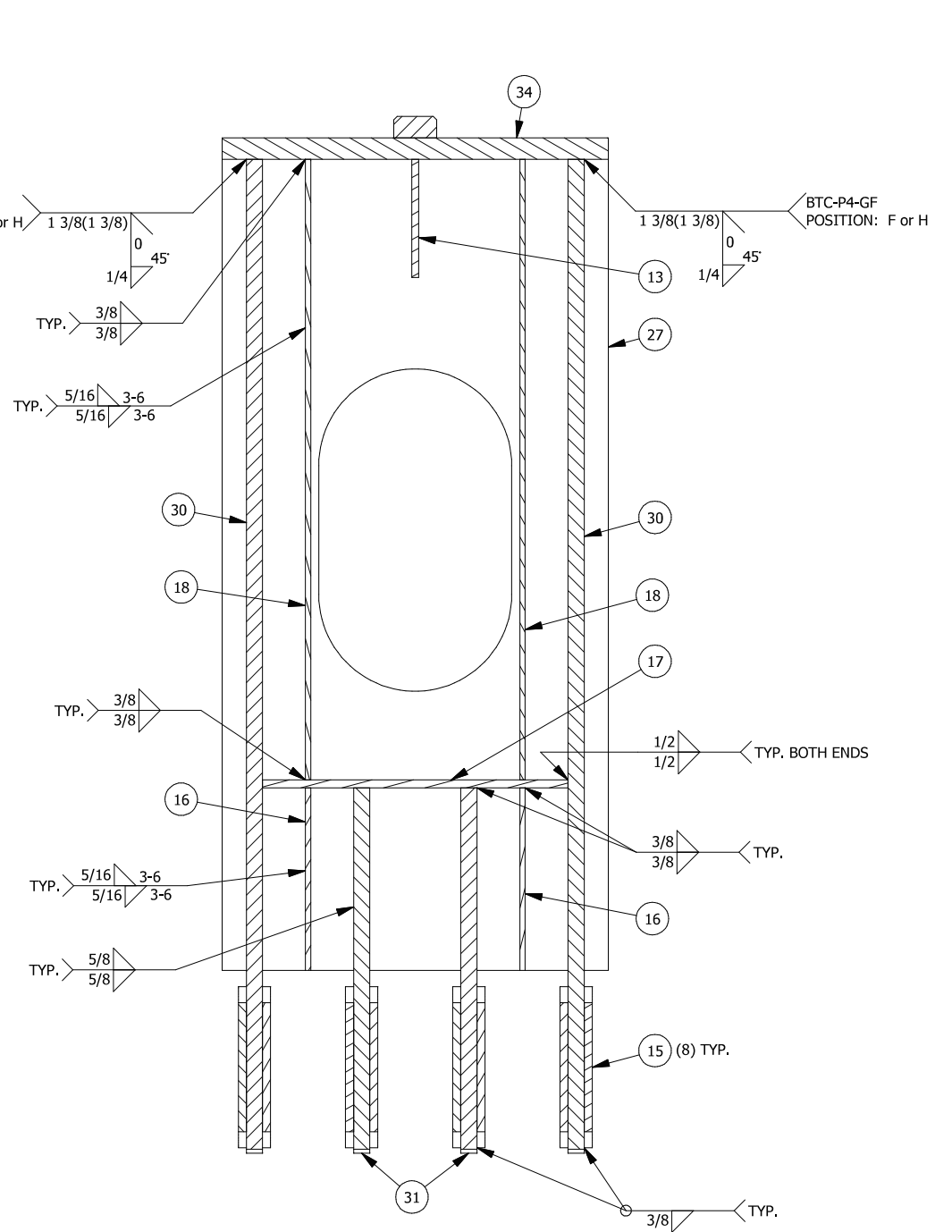
SCALE: (U.N.O)	SIZE	PROJECT No.	DWG. No.	SHEET	REV.
AS NOTED	B			SME40	
				9 of 21	1



K SECTION
8/10 SCALE: 3/4" = 1'-0"




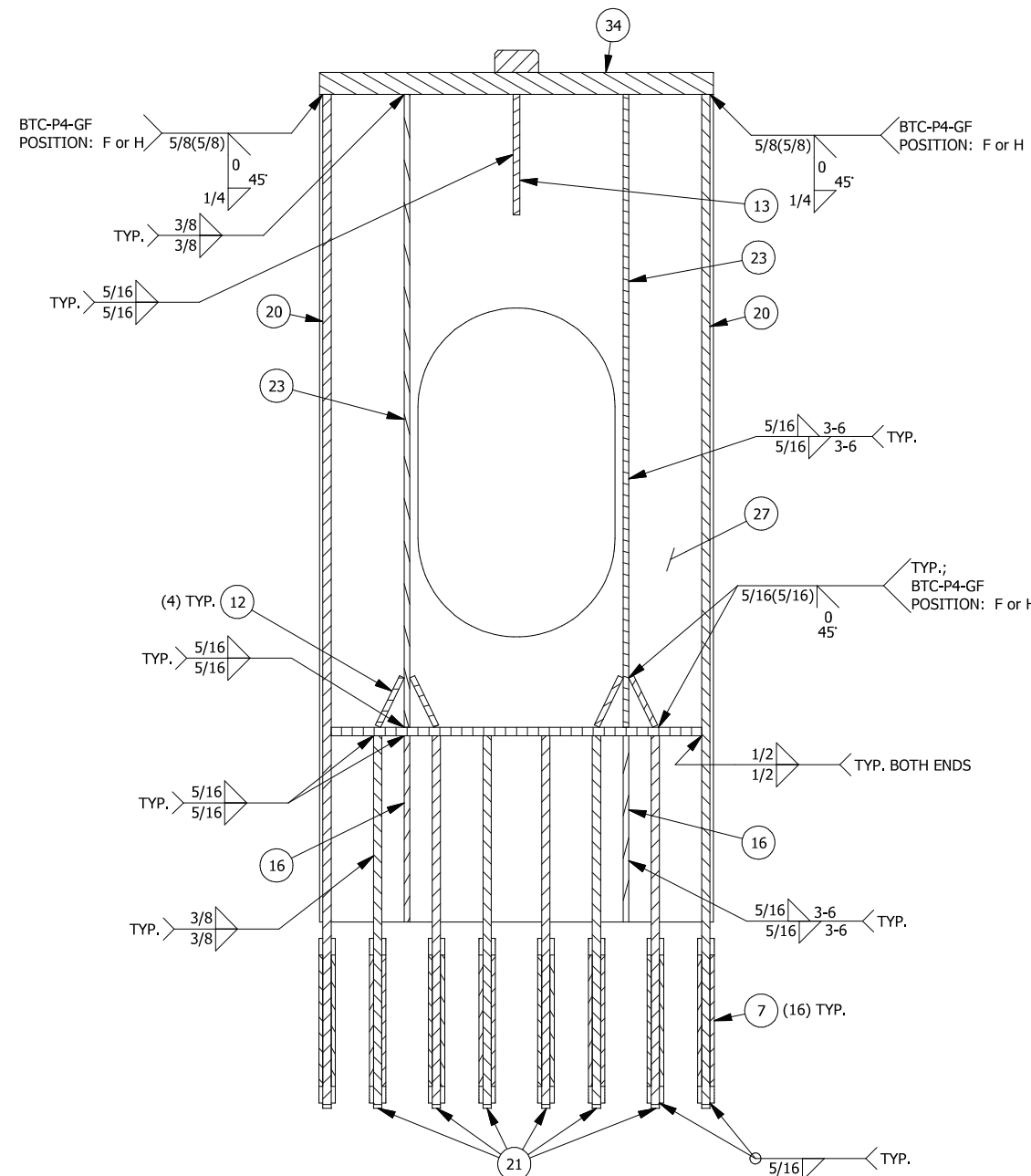
L SECTION
8/10 SCALE: 3/4" = 1'-0"



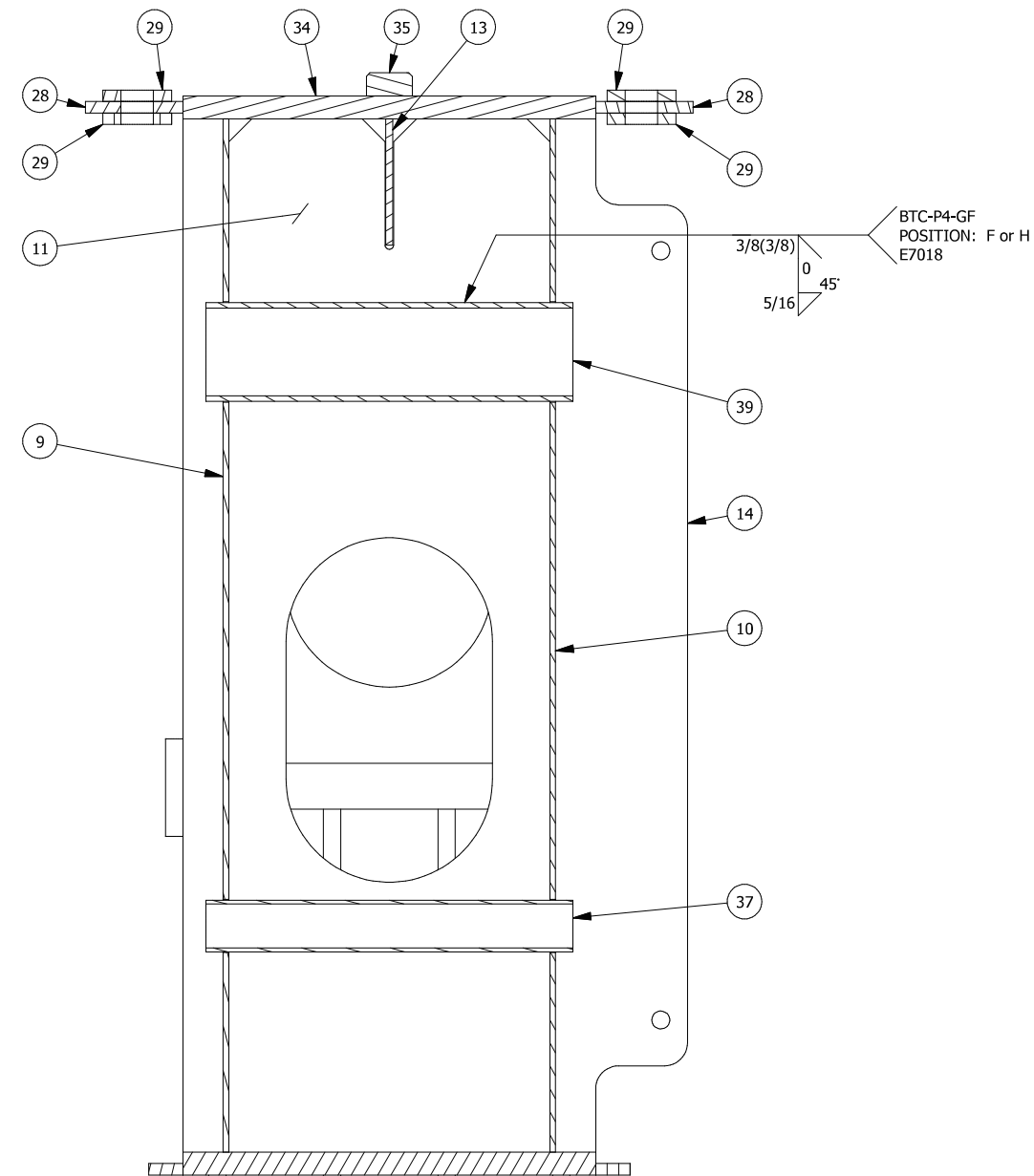
M SECTION
8/10 SCALE: 3/4" = 1'-0"

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SCALE: (U.N.O)	SIZE	PROJECT No.	DWG. No.	SHEET	REV.		
AS NOTED	B			SME40	10 of 21	1	




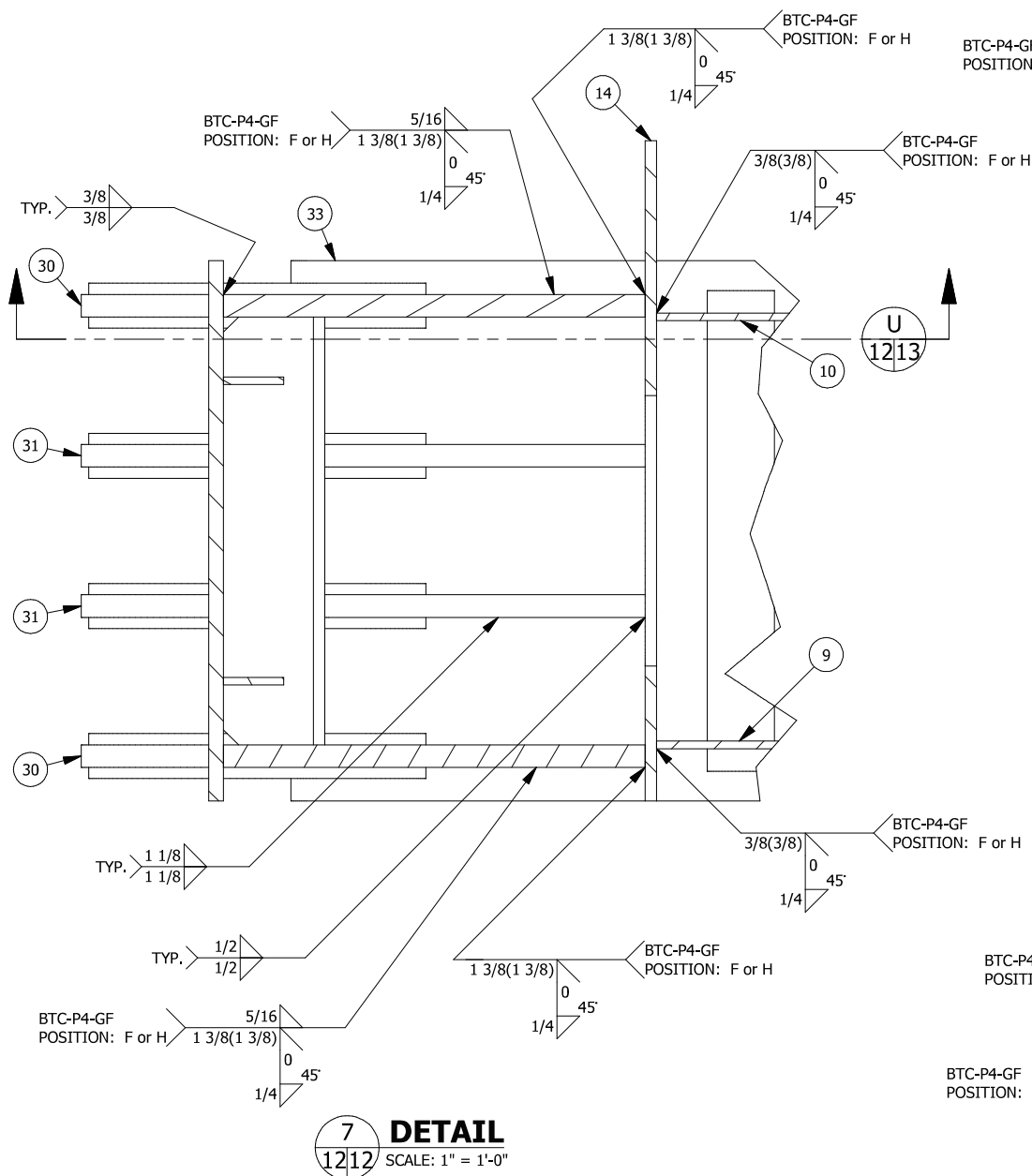
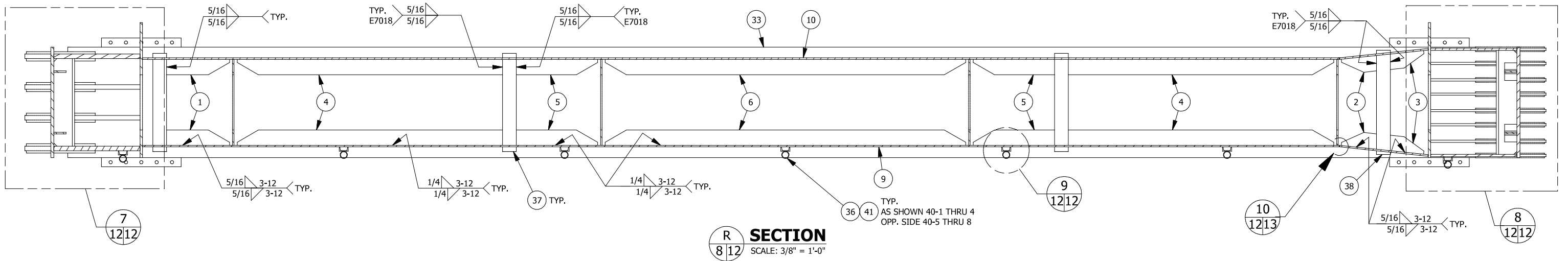
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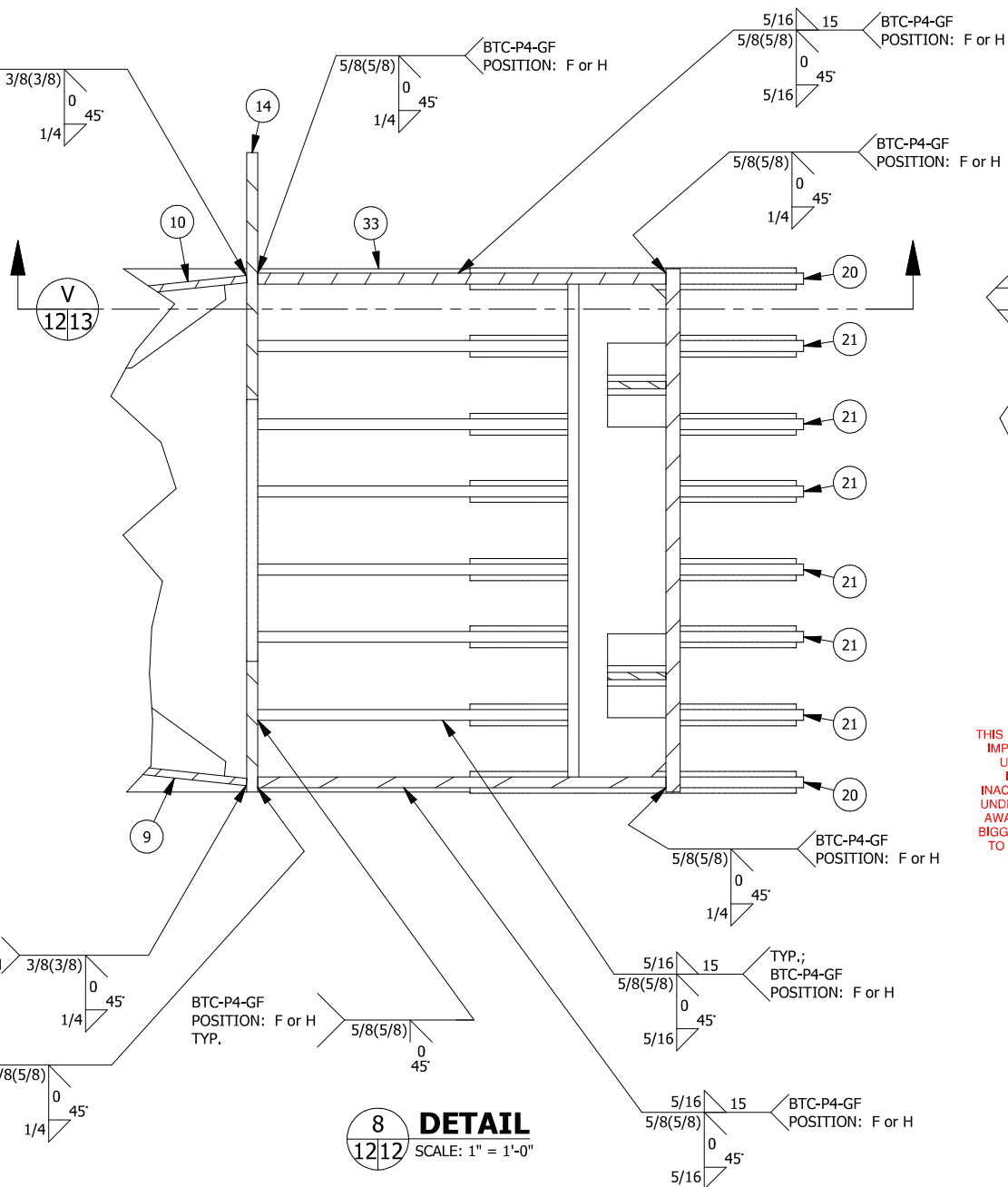
SECTION
SCALE: 3/4" = 1'-0"

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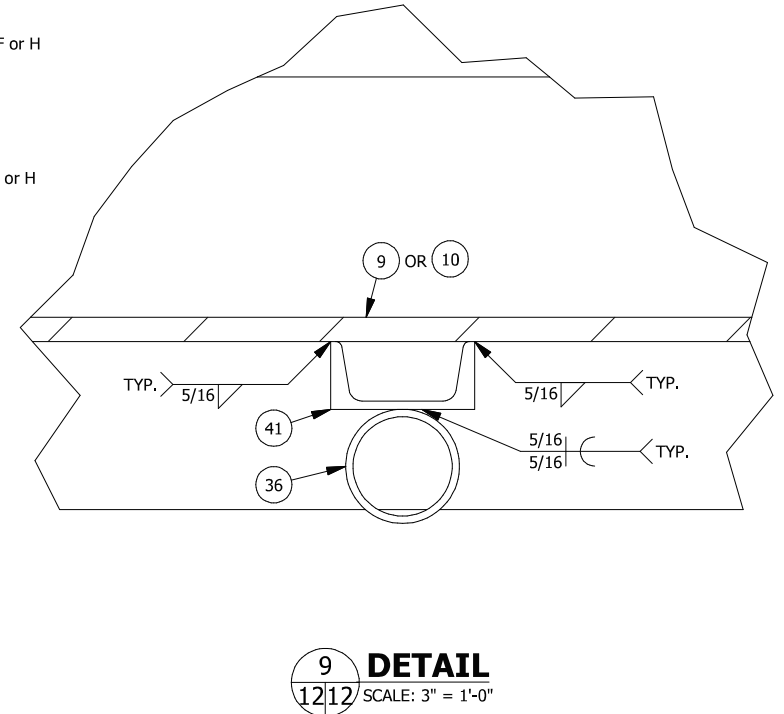
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SCALE: (U.N.O) AS NOTED	SIZE B	PROJECT No.	DWG. No. SME40			SHEET 11 of 21		REV. 1	



NOTE: ITEMS 25, 36 & 41 OMITTED FOR CLARITY




NOTE: ITEMS 25, 36 & 41 OMITTED FOR CLARITY

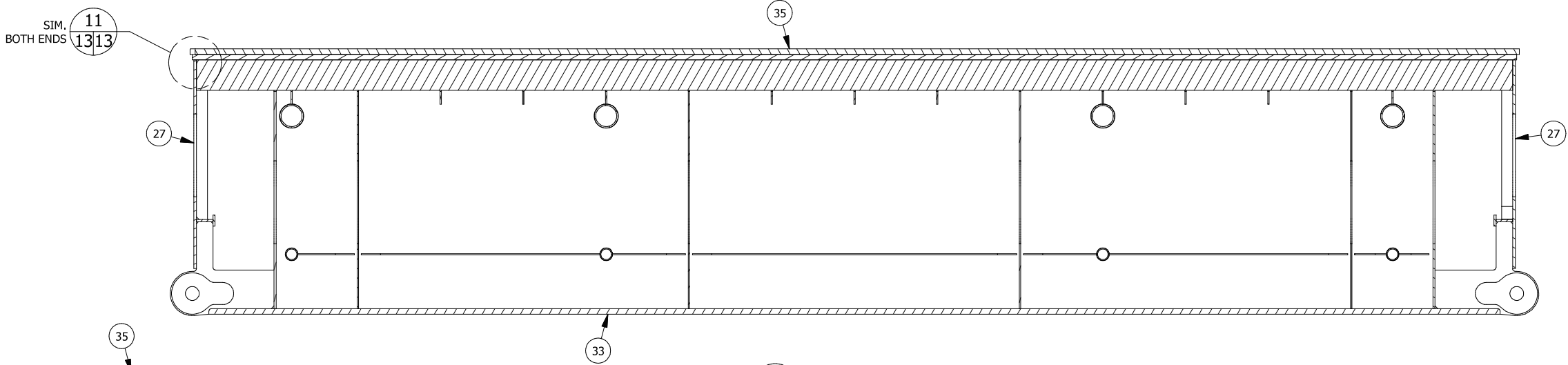


NOTE: WELD FOR ITEM #41 TO ITEM #20 OR #30 IS SIMILAR AS INDICATED TO ITEM #9 OR #10

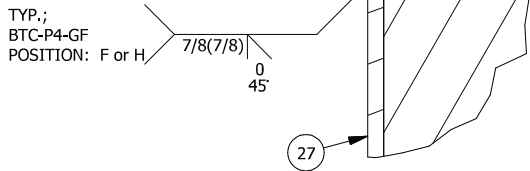
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SME40 RECORD DRAWING WELDING SECTION & DETAIL VIEWS 40'-0" BOX GIRDER							
SCALE: (U.N.O) AS NOTED	SIZE B	PROJECT No.	DWG. No.	10700 Bigge Ave., San Leandro, CA 94577 www.BIGGE.com	SHEET 12 of 21	REV. 1	

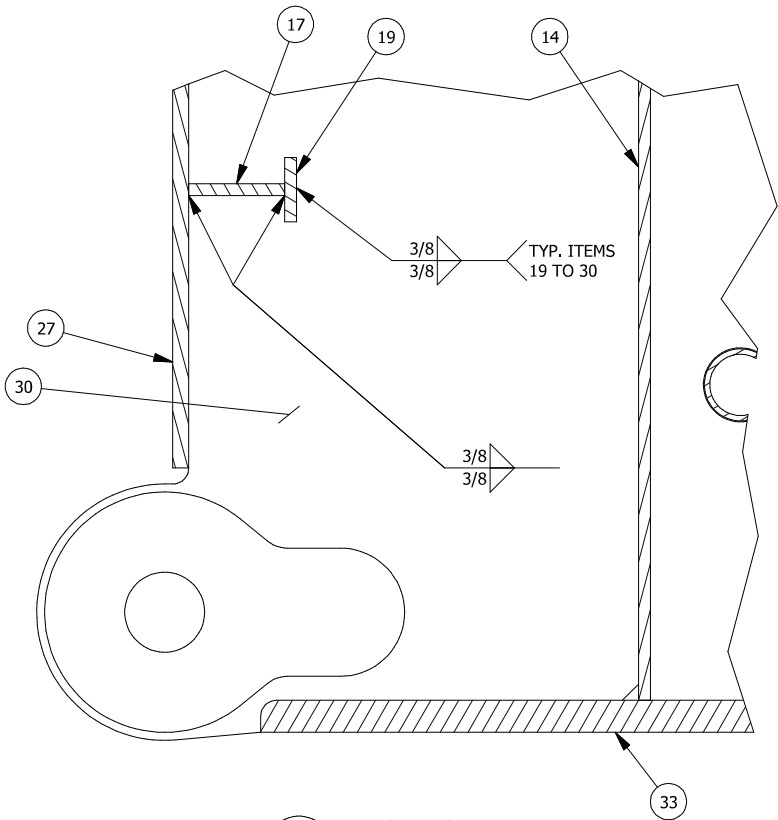
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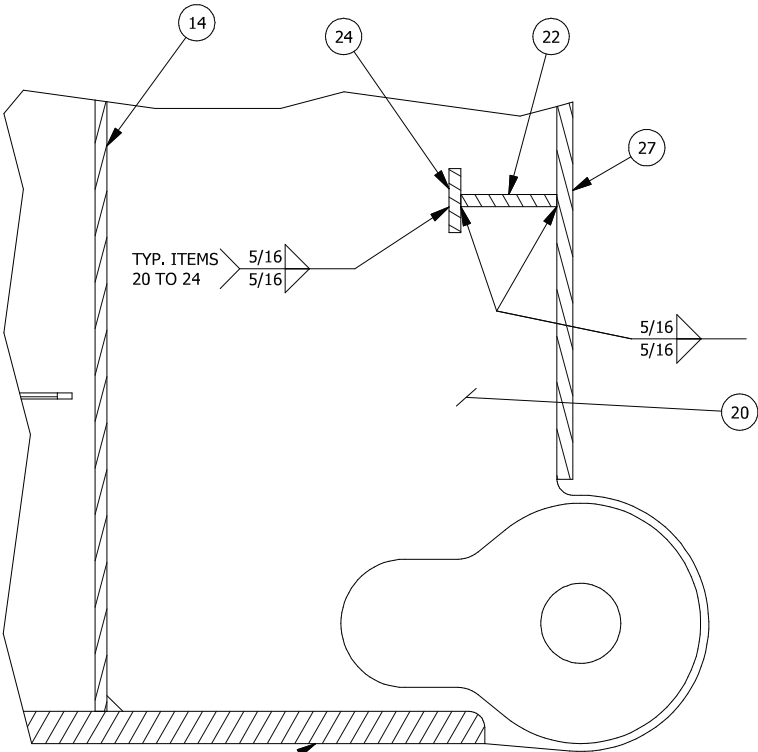
T SECTION
8 13 SCALE: 1/4" = 1'-0"



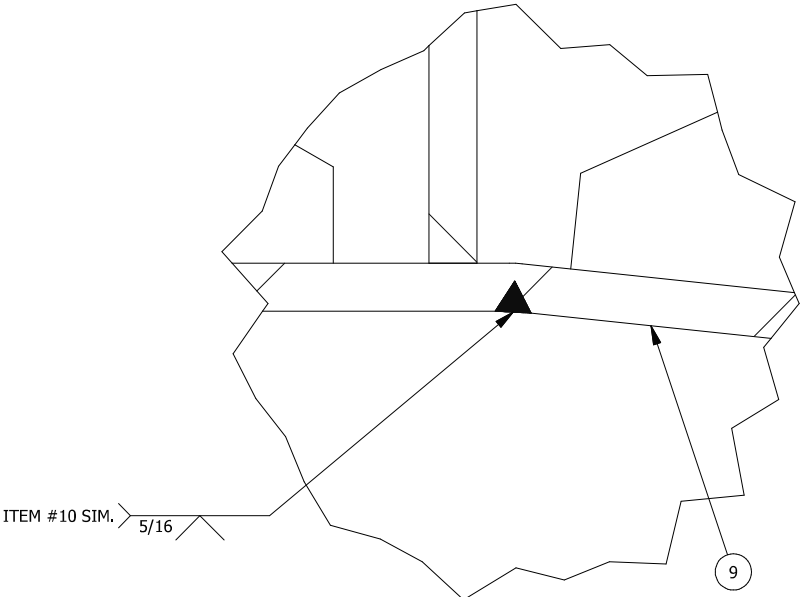
11 DETAIL
13 13 SCALE: 1" = 1'-0"



U SECTION
12 13 SCALE: 1" = 1'-0"

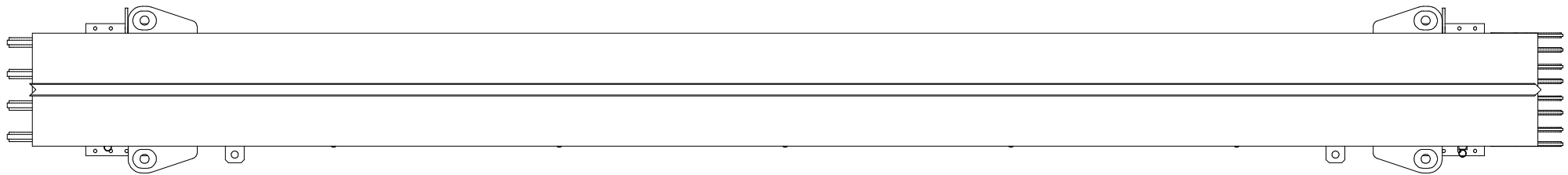


V SECTION
12 13 SCALE: 1" = 1'-0"

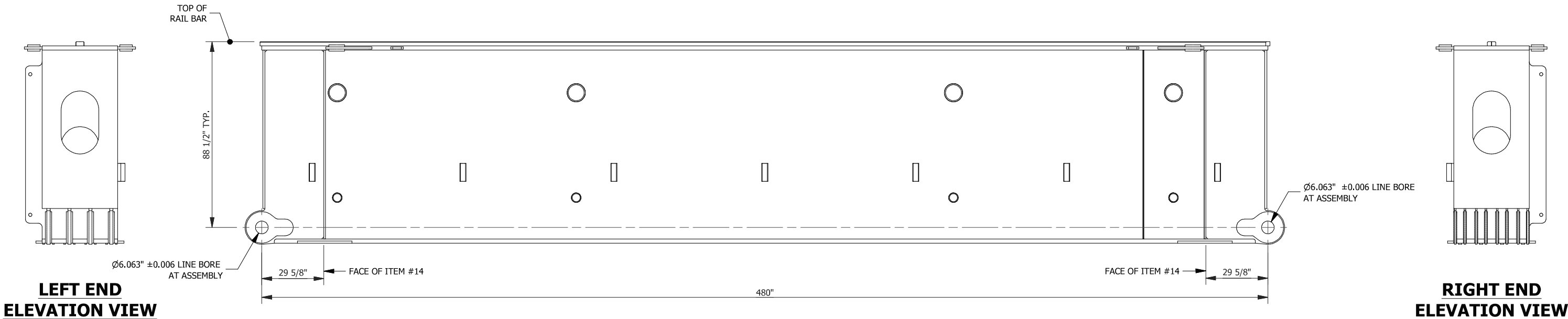


10 DETAIL
12 13 SCALE: 6" = 1'-0"

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BIGGE POWER CONSTRUCTORS							
SME40 RECORD DRAWING WELDING SECTION & DETAIL VIEWS 40'-0" BOX GIRDER							
SCALE: (U.N.O) AS NOTED	SIZE B	PROJECT No.	DWG. No. SME40	SHEET 13 of 21	REV. 1		




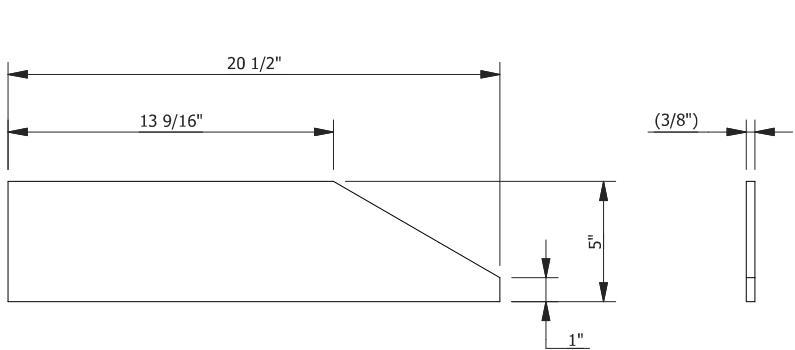
PLAN VIEW



ELEVATION VIEW

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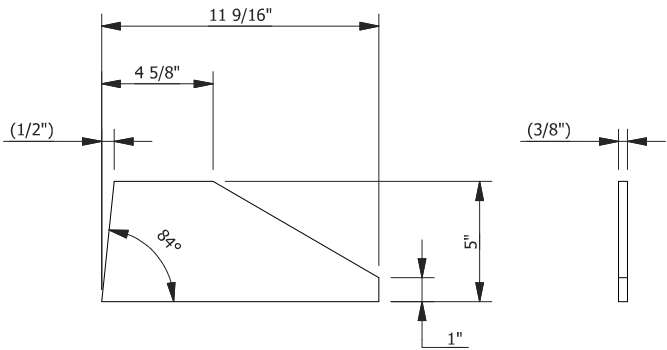
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SCALE: (U.N.O) 1/4" = 1'-0"		SIZE B	PROJECT No.			DWG. No. SME40		SHEET 14 of 21	REV. 1



1

DETAIL 1

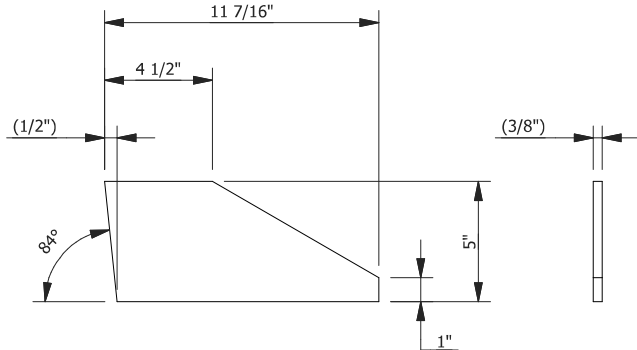
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2

DETAIL 2

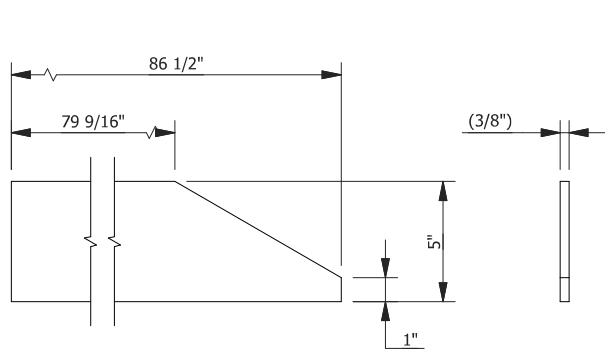
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3

DETAIL 3

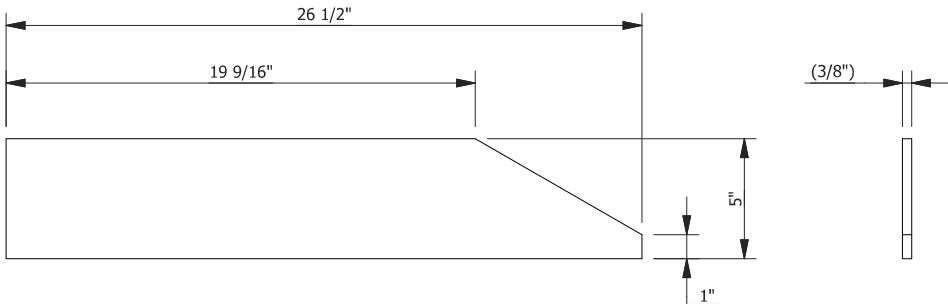
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4

DETAIL 4

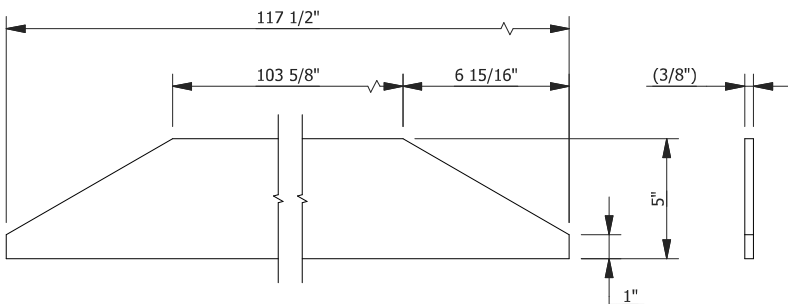
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5

DETAIL 5

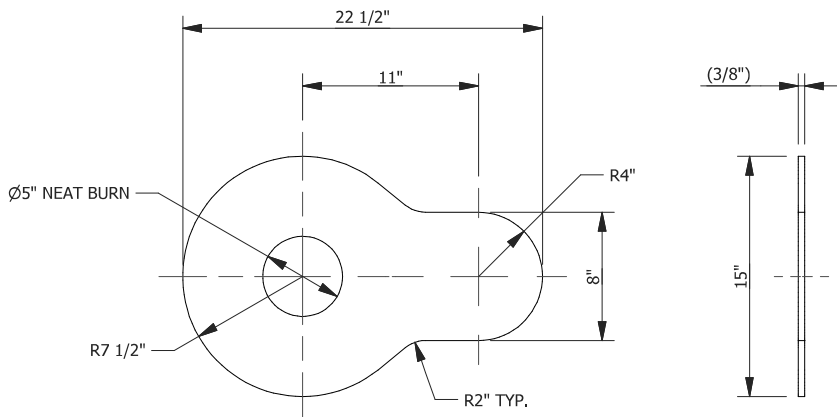
SCALE: 1 1/2" = 1'-0"



6

DETAIL 6

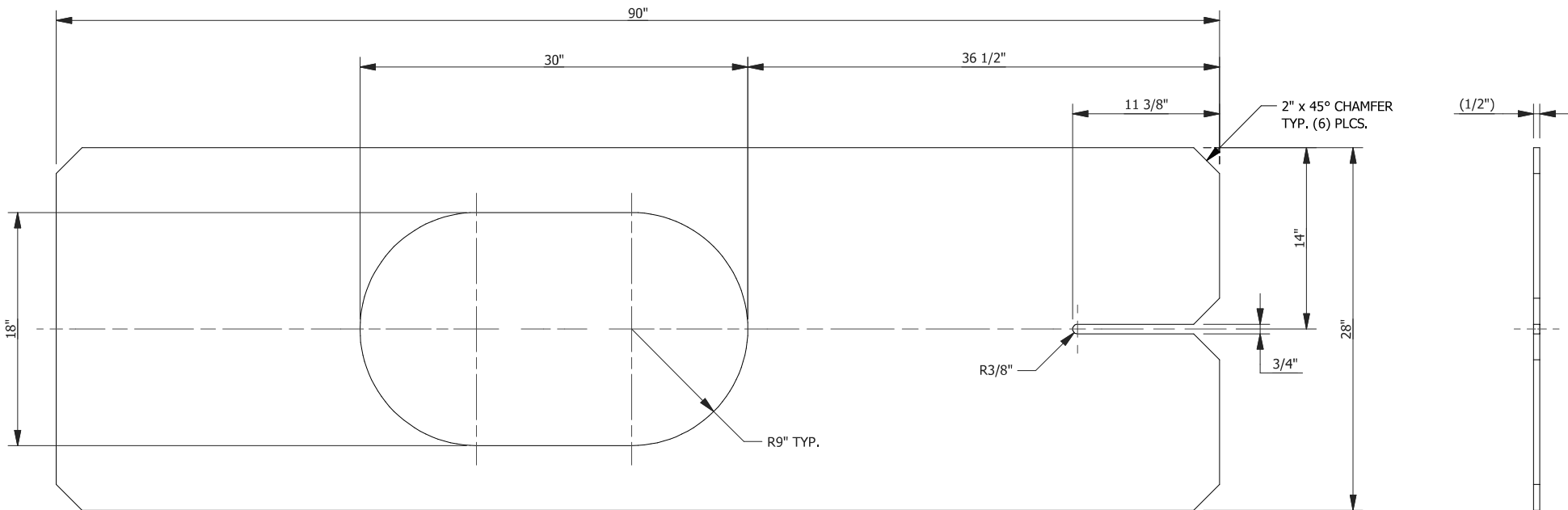
SCALE: 1 1/2" = 1'-0"



7

DETAIL 7

SCALE: 1" = 1'-0"



8

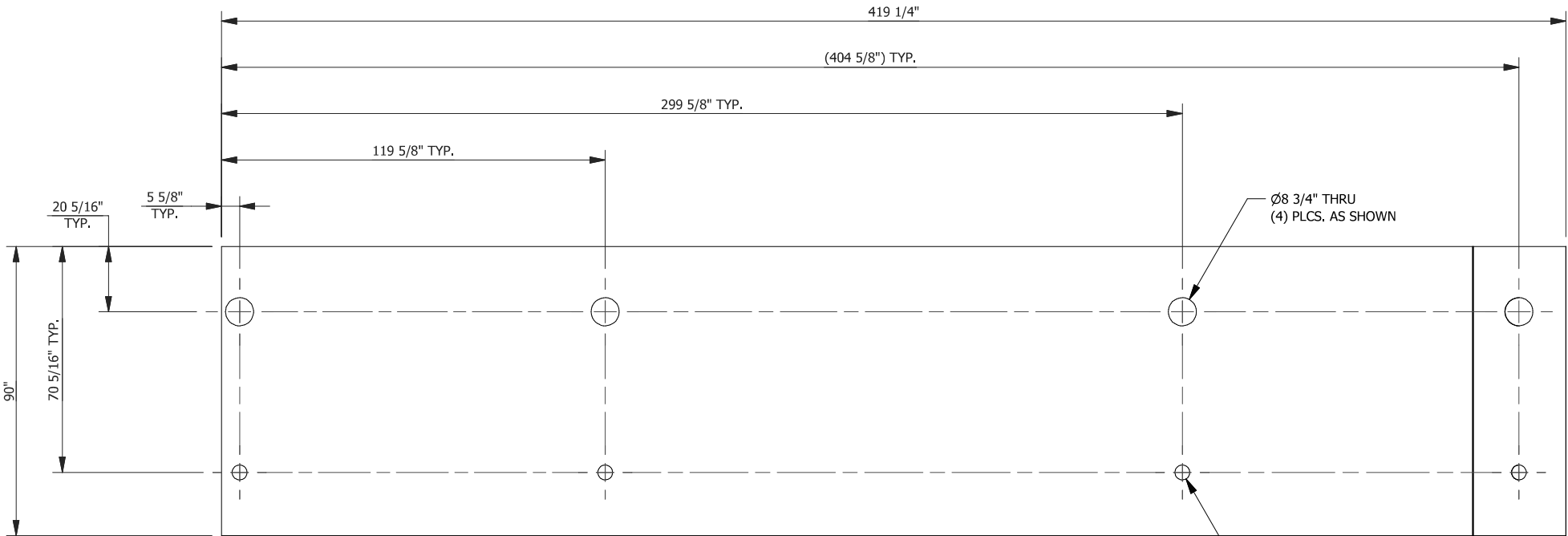
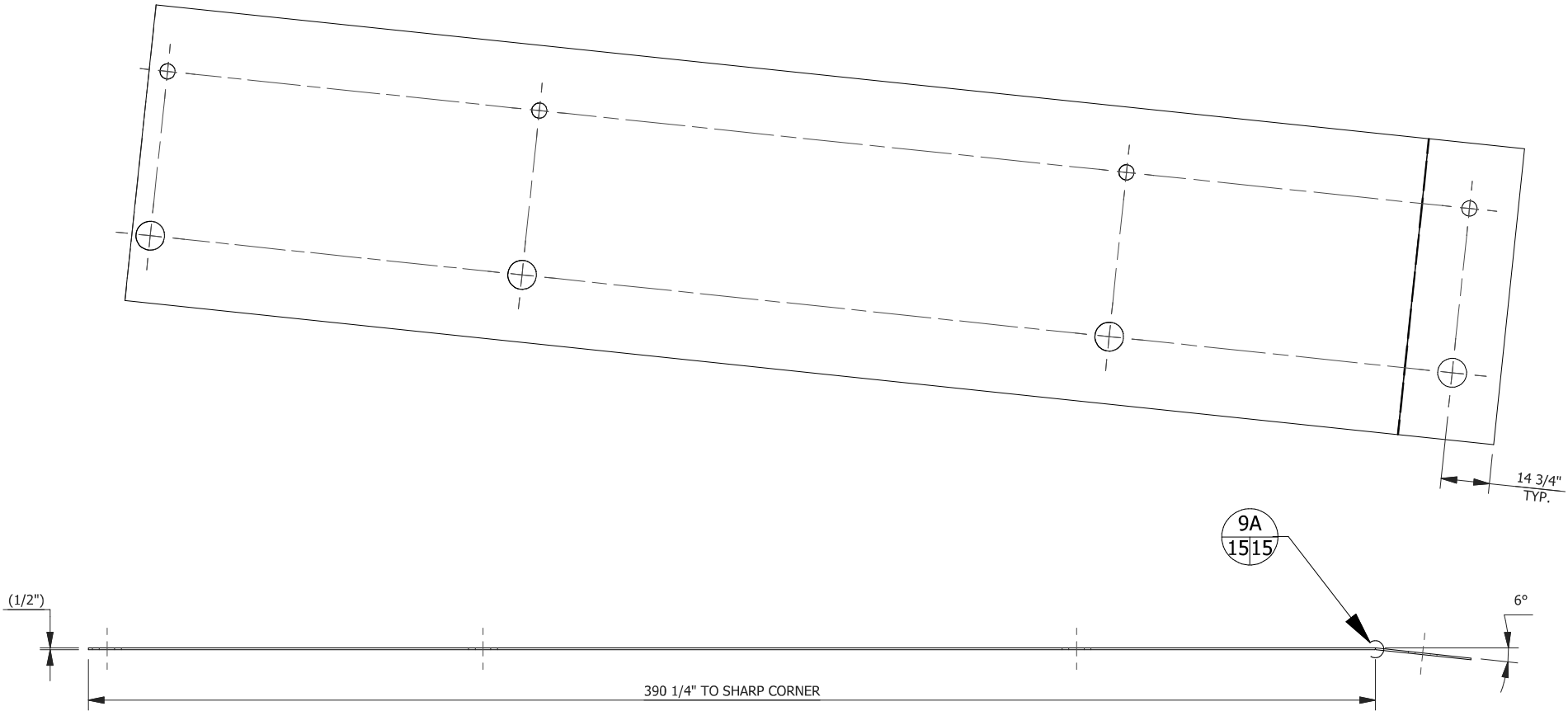
DETAIL 8

SCALE: 1" = 1'-0"

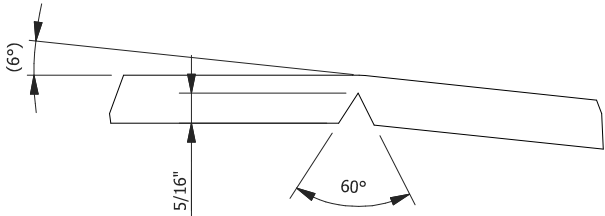
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SME40 RECORD DRAWING DETAILS 40'-0" BOX GIRDER							
SCALE: (U.N.O)	SIZE	PROJECT No.	DWG. No.	SHEET	REV.		
AS NOTED	B		SME40	15 of 21	1		


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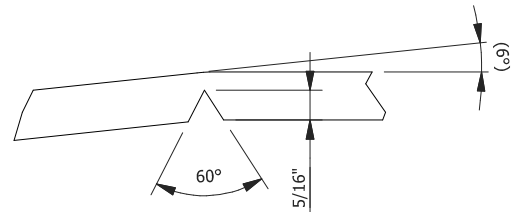
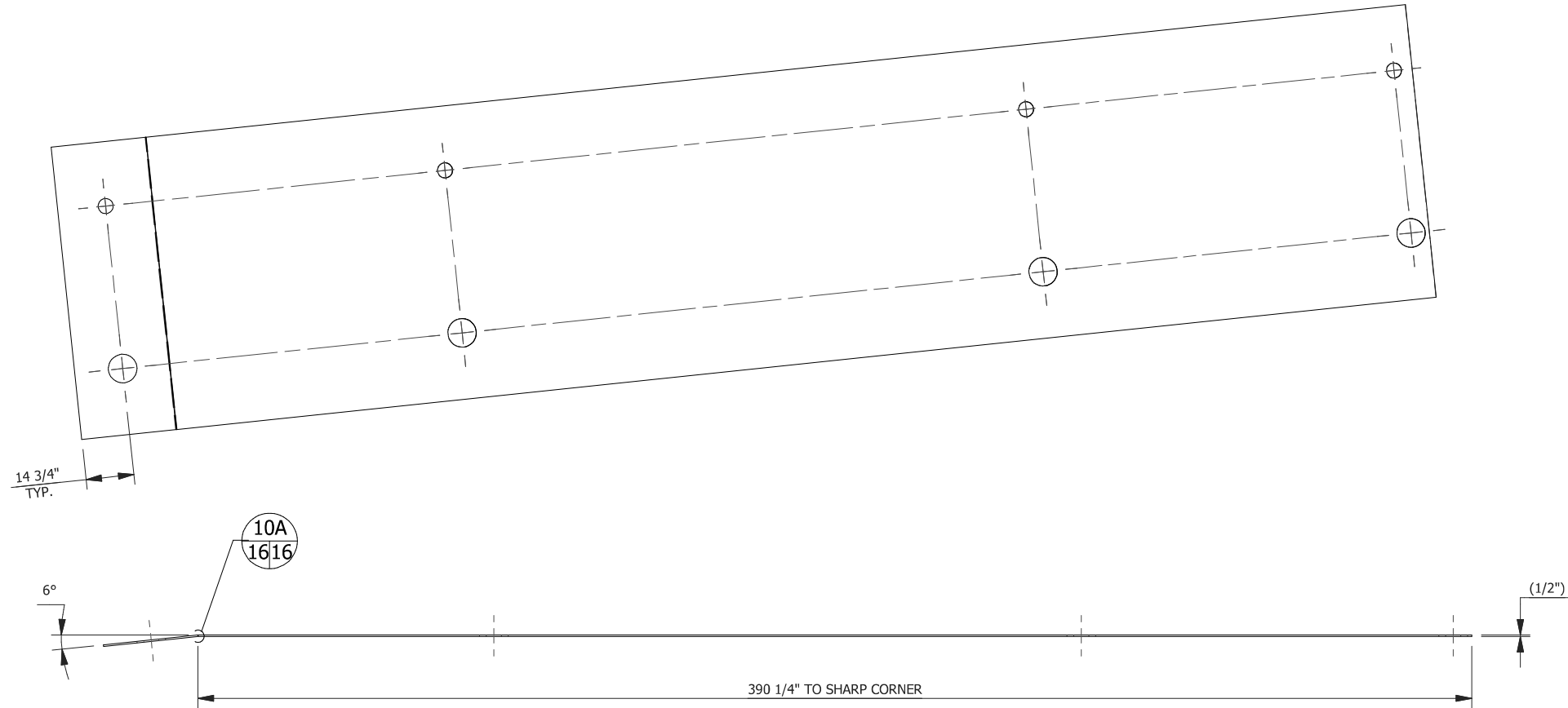


9 **DETAIL 9**
SCALE: 1/4" = 1'-0"



9A **DETAIL**
1515 SCALE: 6" = 1'-0"

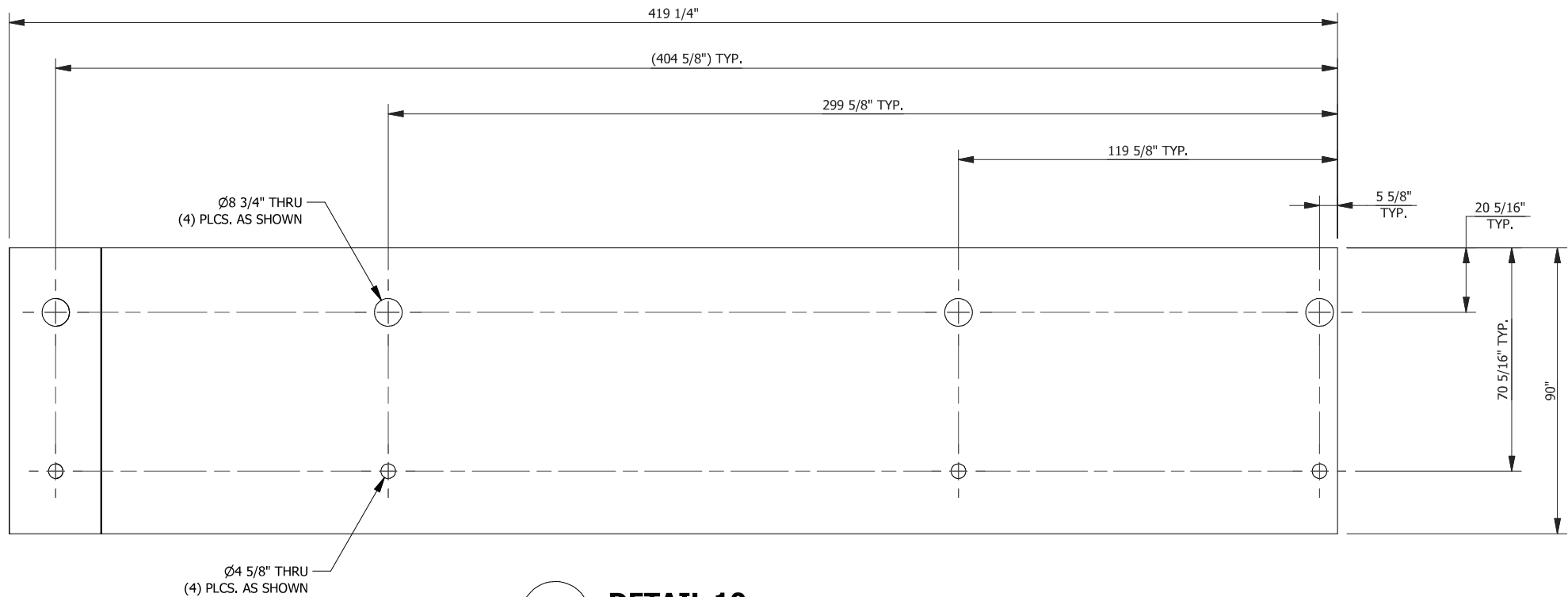
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SME40 RECORD DRAWING DETAILS 40'-0" BOX GIRDER								
SCALE: (U.N.O) AS NOTED		SIZE B	PROJECT No.		DWG. No. SME40		SHEET 16 of 21	REV. 1



10A
1616

DETAIL

SCALE: 6" = 1'-0"



10

DETAIL 10


SCALE: 1/4" = 1'-0"

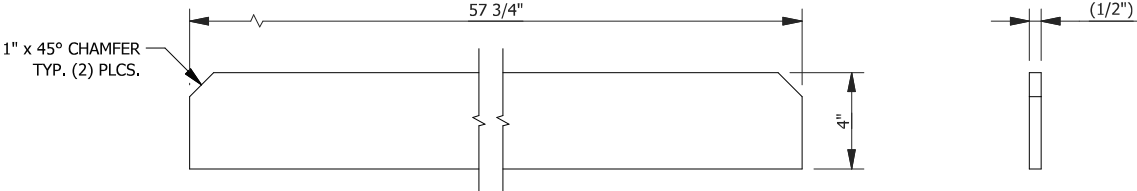
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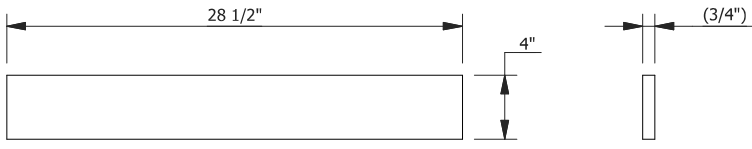


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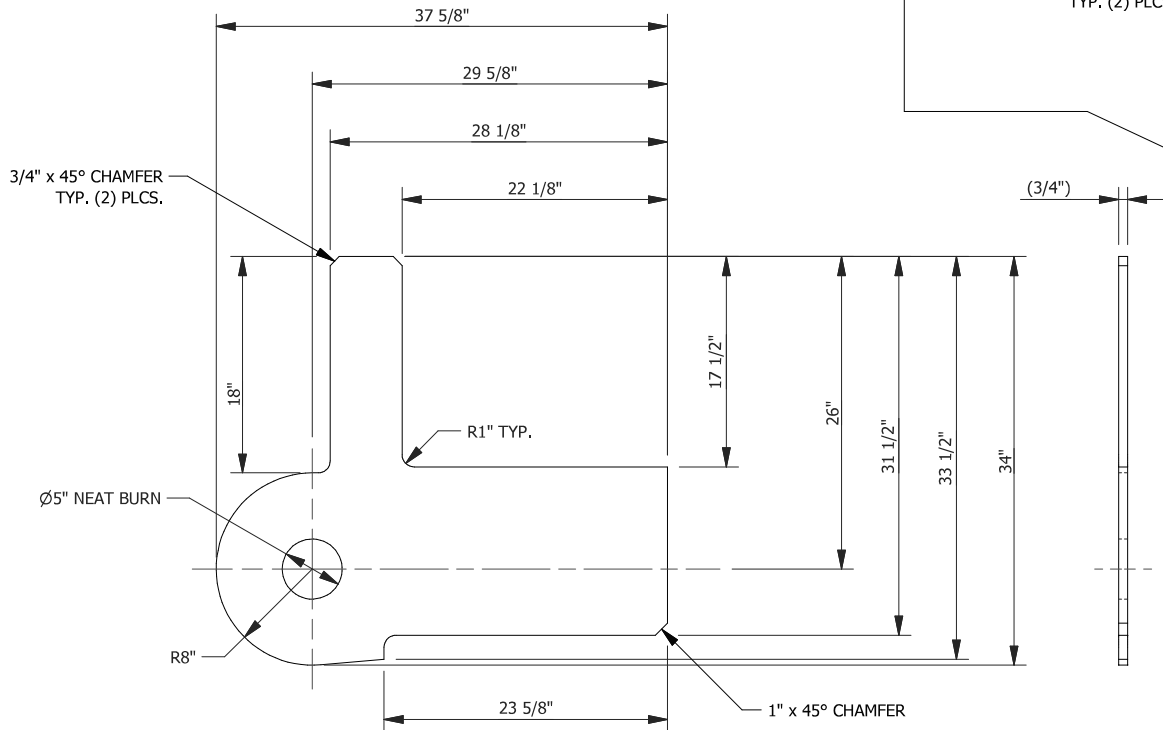
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SCALE: (U.L.N.O)	SIZE	PROJECT No.	DWG. No.	SHEET		REV.	
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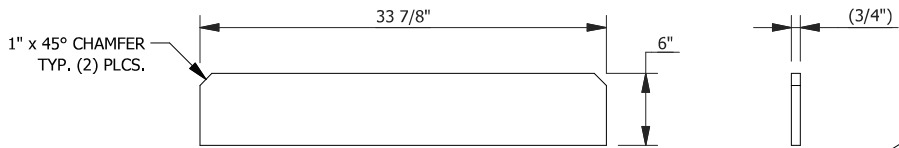
18 **DETAIL 18**
SCALE: 1 1/2" = 1'-0"



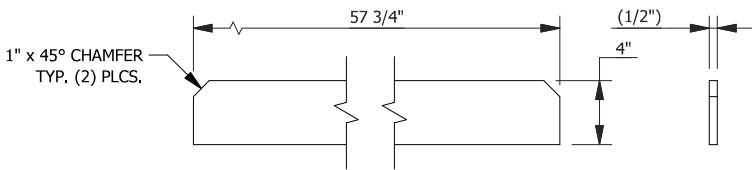
19 **DETAIL 19**
SCALE: 1" = 1'-0"



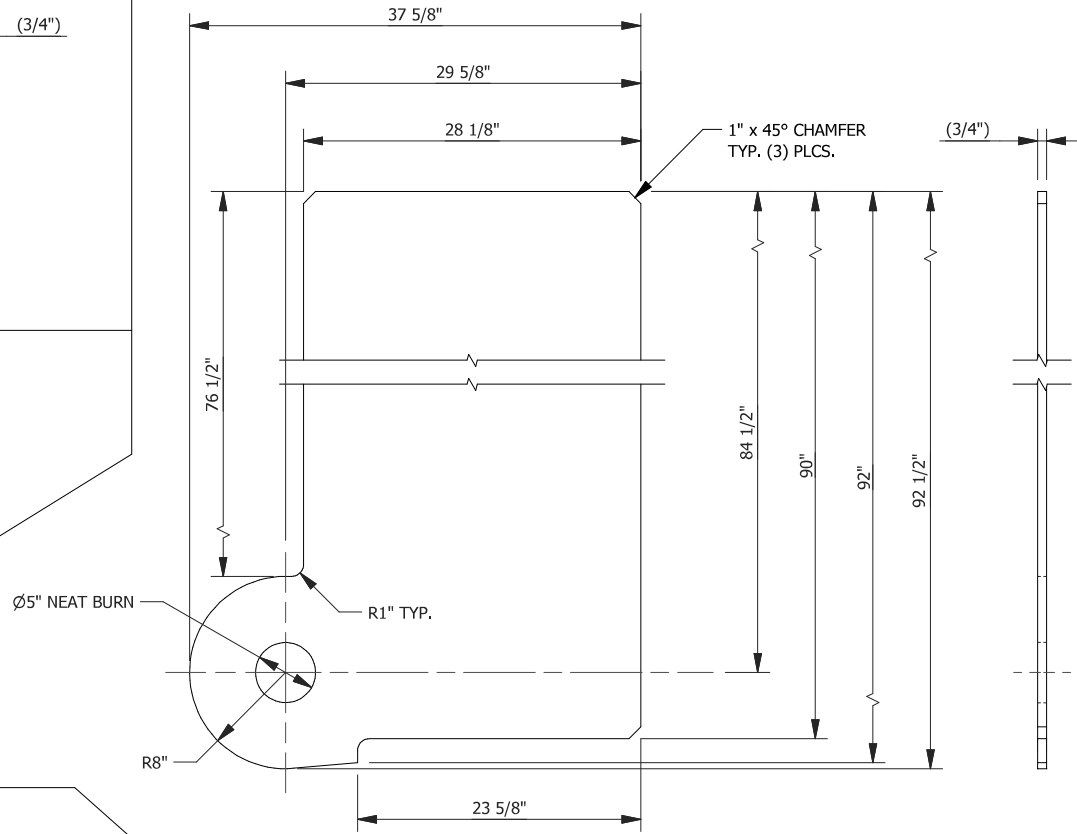
21 **DETAIL 21**
SCALE: 3/4" = 1'-0"



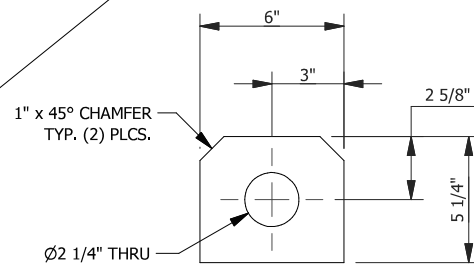
22 **DETAIL 22**
SCALE: 3/4" = 1'-0"



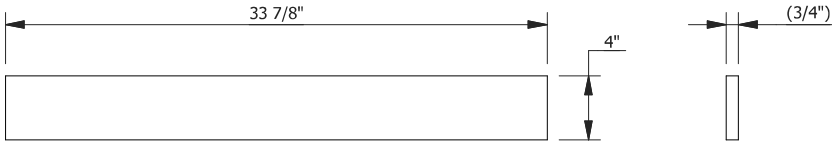
23 **DETAIL 23**
SCALE: 1" = 1'-0"



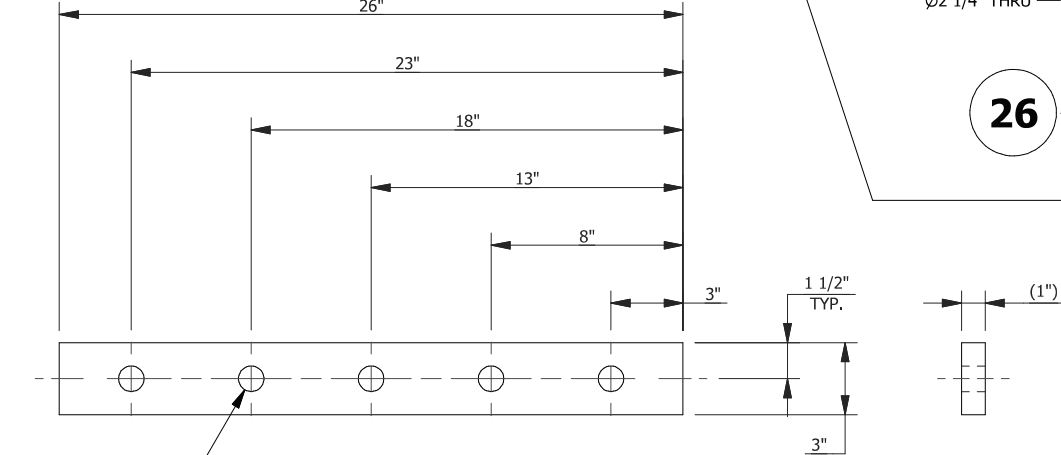
20 **DETAIL 20**
SCALE: 3/4" = 1'-0"



26 **DETAIL 26**
SCALE: 1 1/2" = 1'-0"




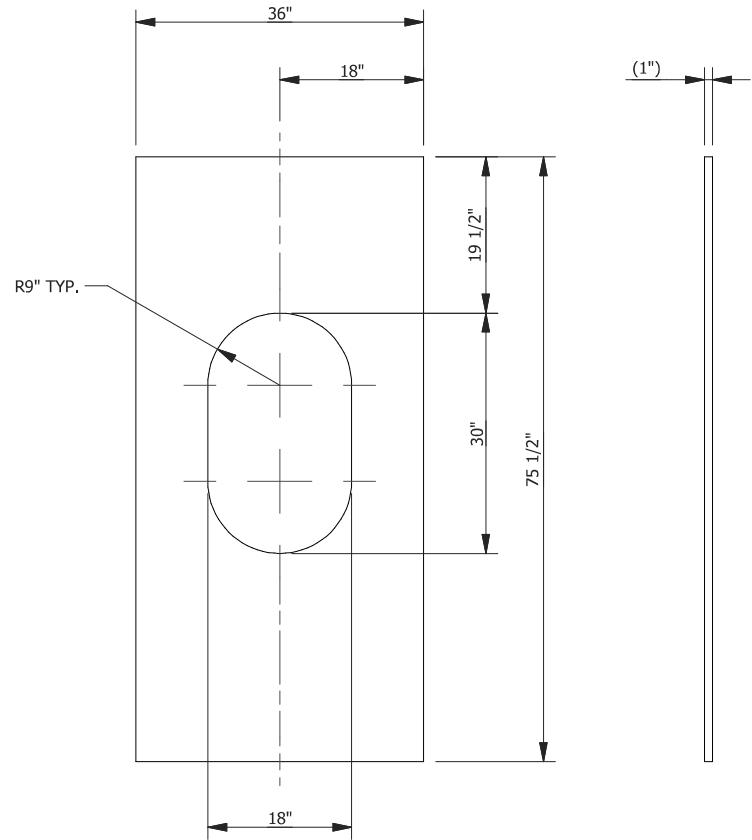
24 **DETAIL 24**
SCALE: 1" = 1'-0"



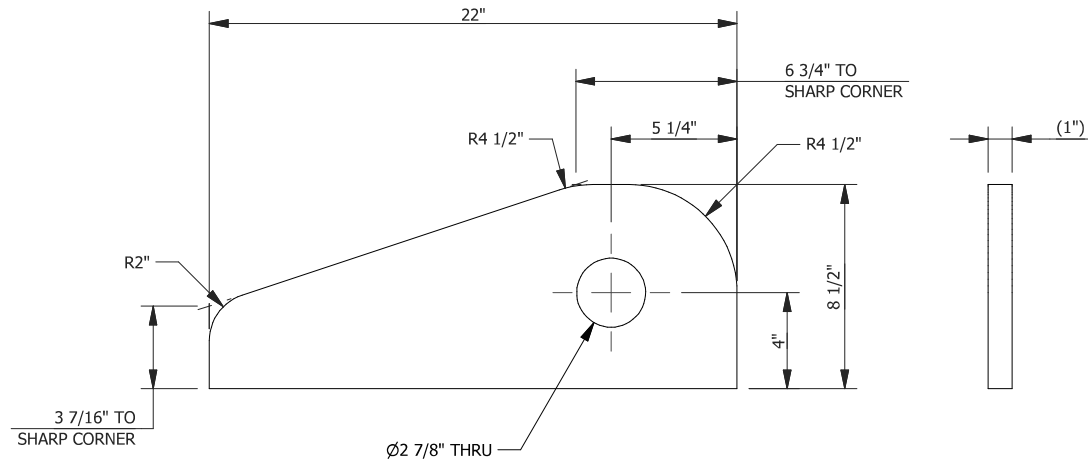
25 **DETAIL 25**
SCALE: 1 1/2" = 1'-0"

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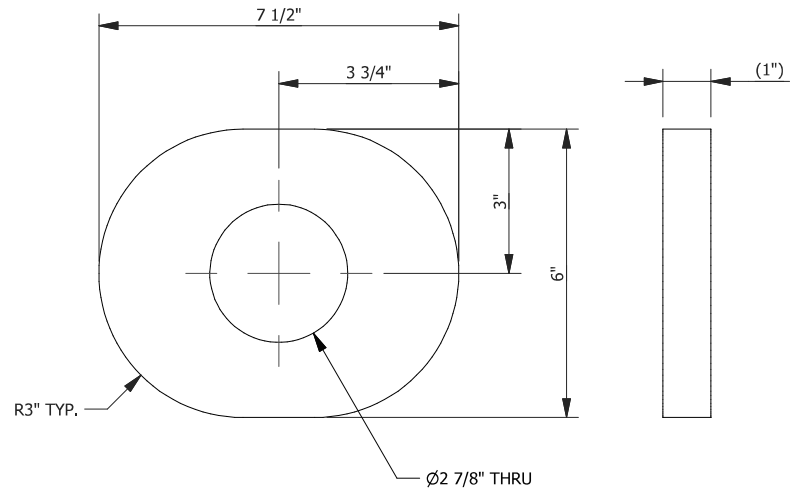
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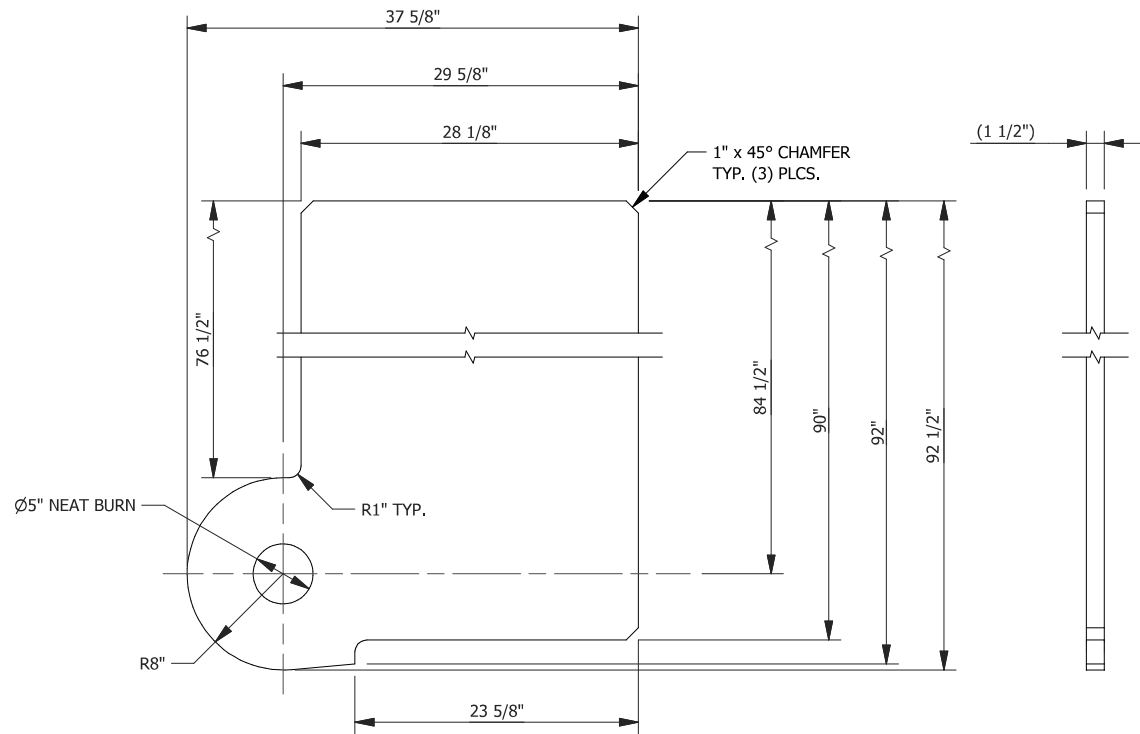
27 **DETAIL 27**
SCALE: 1/2" = 1'-0"



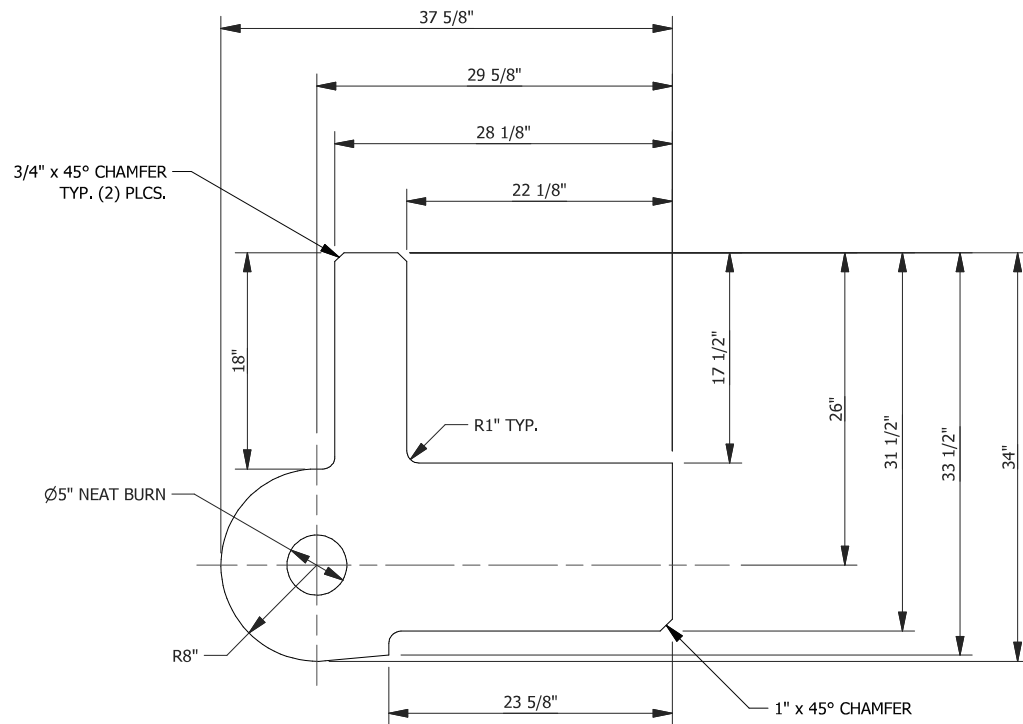
28 **DETAIL 28**
SCALE: 1 1/2" = 1'-0"



29 **DETAIL 29**
SCALE: 3" = 1'-0"




30 **DETAIL 30**
SCALE: 3/4" = 1'-0"



31 **DETAIL 31**
SCALE: 3/4" = 1'-0"

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