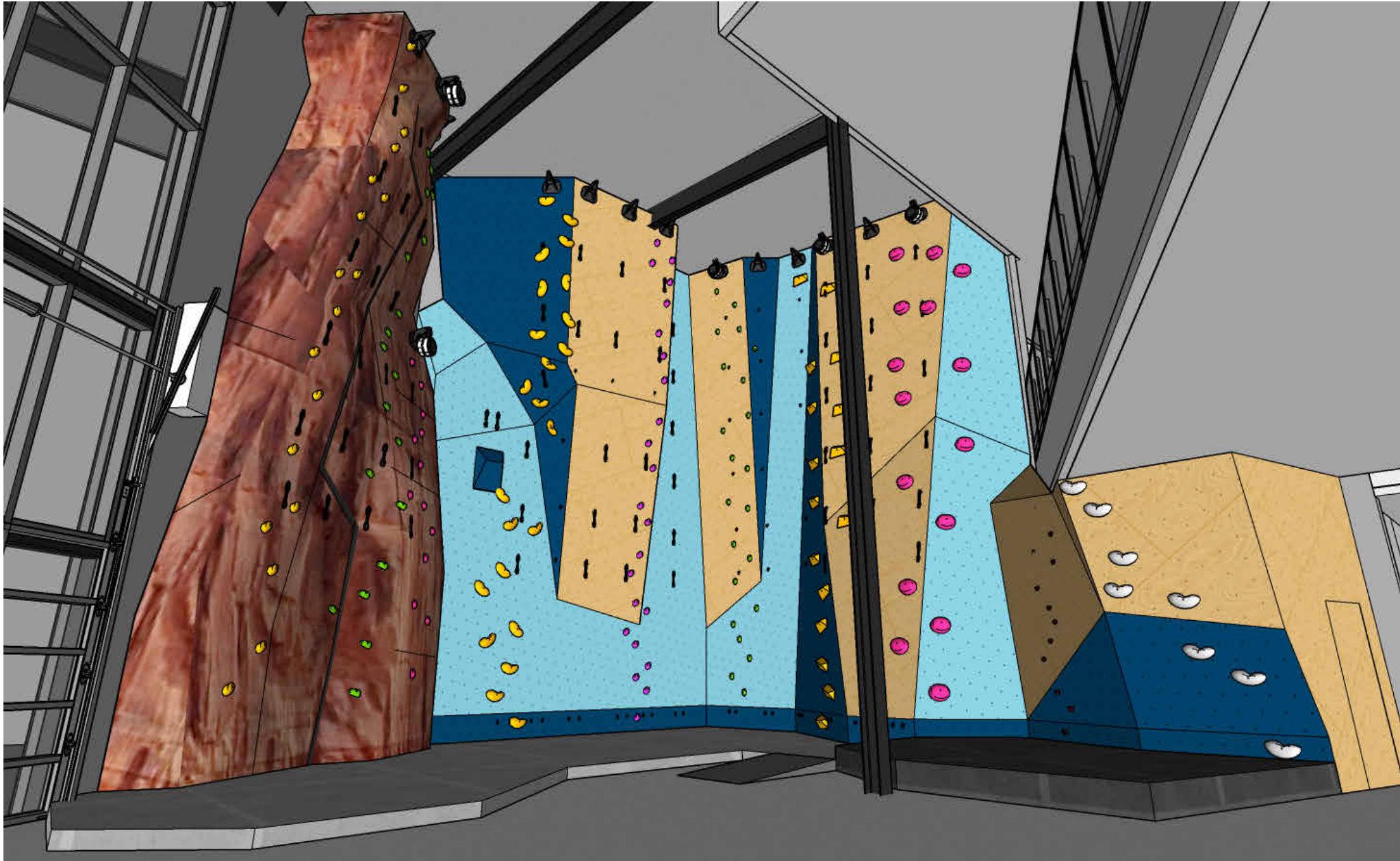




SHEET INDEX	
0.0	COVER PAGE
1.0	PROJECT OVERVIEW
2.0	BASEBOARD LAYOUT
2.1	BASEBOARD LAYOUT
2.2	PROFILE LAYOUT
3.0	STEEL OVERVIEW
3.1	STEEL PAGES
3.2	STEEL PAGES
3.3	LASERED PLATES
4.0	BRACING VIEWS
4.1	BRACING VIEWS
4.2	BRACING VIEWS
4.3	DETAILS
4.4	BRACING TABLES
4.5	BRACING TABLES
4.6	BRACING TABLES
4.7	BRACING TABLES
5.0	SHAPE LAYOUT
5.1	SHAPE LAYOUT
6.0	FLANGE LAYOUT
6.1	FLANGE LAYOUT
6.2	FLANGE SUMMARY
7.0	FLOORING
DA.1	DESIGN APPROVAL
DA.2	DESIGN APPROVAL
DR.1	DESIGN REVIEW
DR.2	DESIGN REVIEW FLOOR PLAN
P2.0	PANELIZED 2.0 TYPICALS



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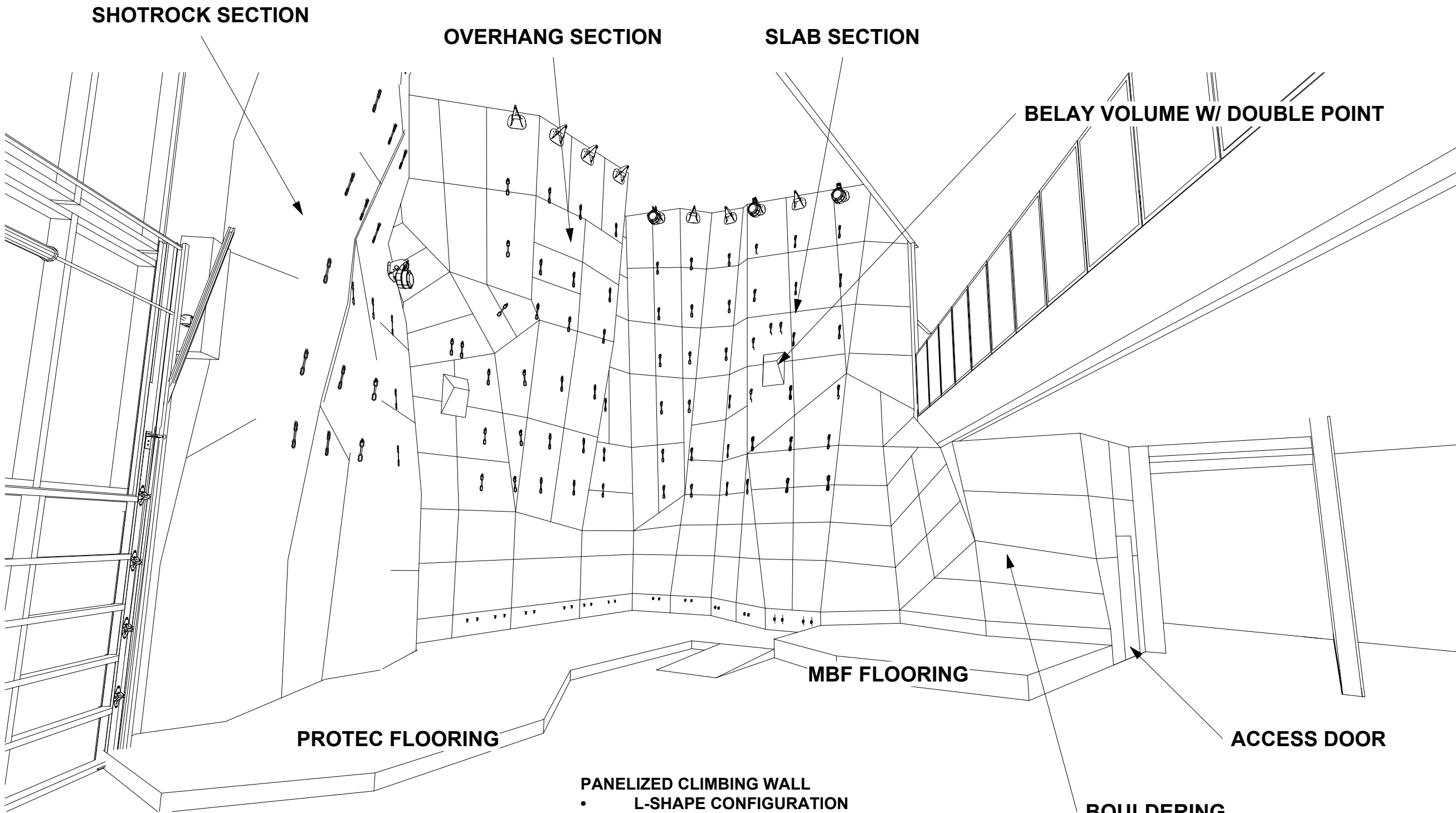
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GRAND JUNCTION REC CENTER - PANELIZED

2836 RECREATION WAY, GRAND JUNCTION, CO 81506

COVER PAGE

0.0



- PANELIZED CLIMBING WALL**
- L-SHAPE CONFIGURATION
 - 33' HIGH
 - 12 BELAY BARS
 - 12 LEAD LANES
 - 14 DOUBLE POINT ANCHORS
 1. 12 AT BASE SHAPES FOR ADAPTIVE CLIMBING
 - BOULDERING SECTION ON RIGHT SIDE
 1. MODULAR BOULDER FLOORING
 - TALL WALL BETWEEN BOULDERING AND SHOTROCK
 1. SLAB SECTION AND OVERHANG SECTION
 2. PROTEC FLOORING
 - 2 BELAY VOLUMES
 - 1 ACCESS DOOR

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GRAND JUNCTION REC
CENTER - PANELIZED

2836 RECREATION
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PROJECT OVERVIEW

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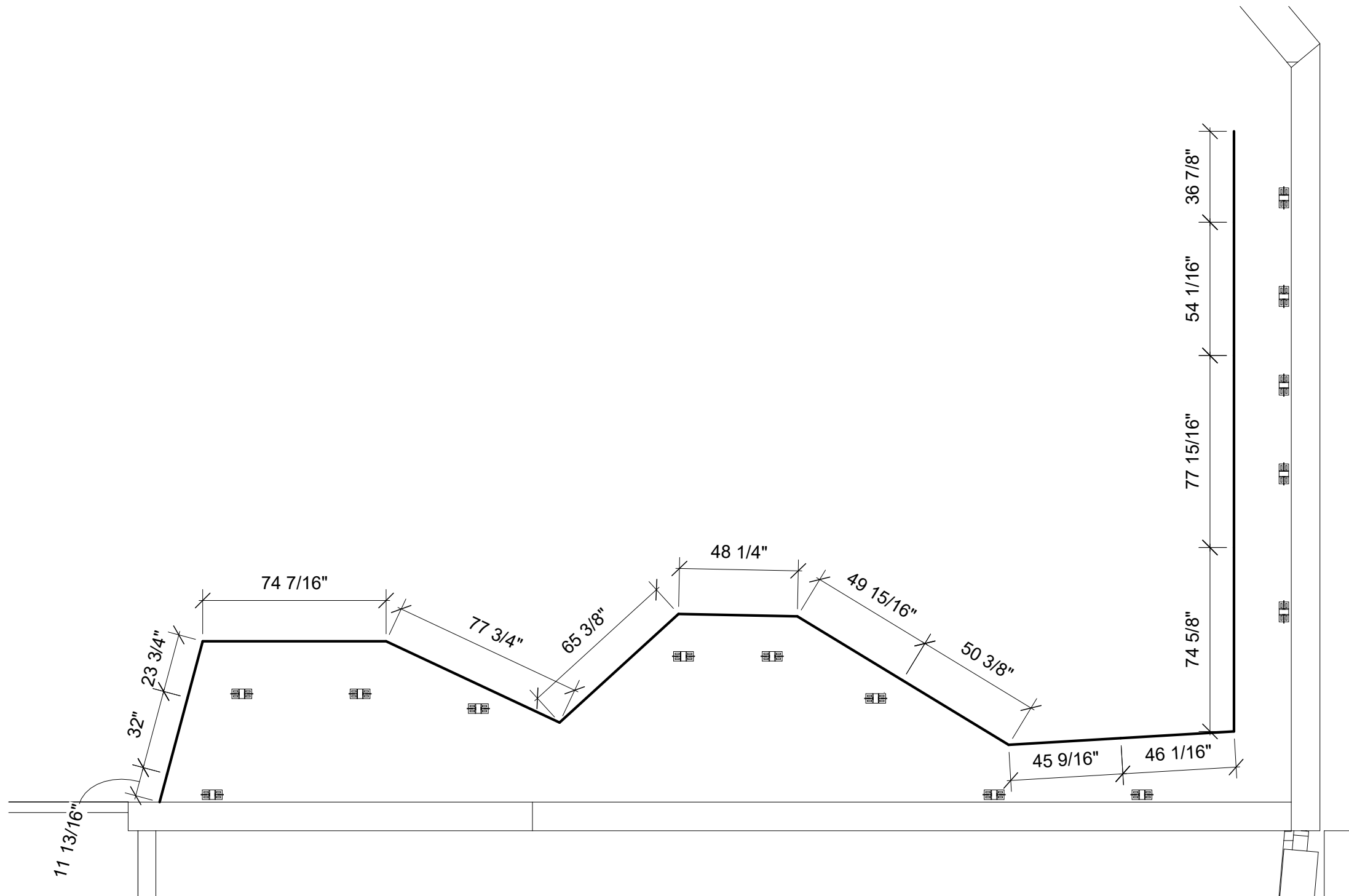
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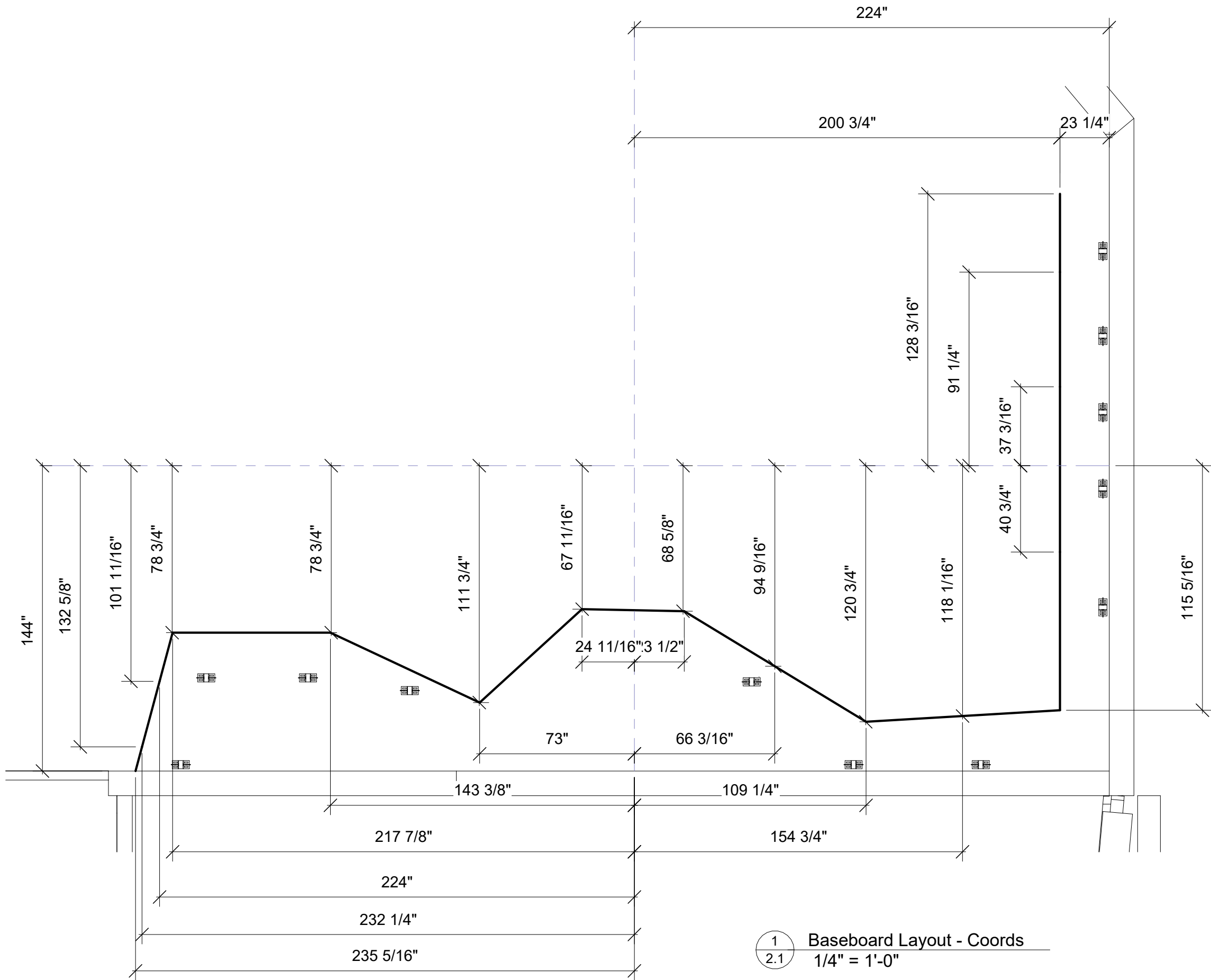
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CENTER - PANELIZED

2836 RECREATION
WAY, GRAND
JUNCTION, CO 81506

BASEBOARD LAYOUT



1 Baseboard Layout - Lengths
2.0 1/4" = 1'-0"



1 Baseboard Layout - Coords
2.1 1/4" = 1'-0"



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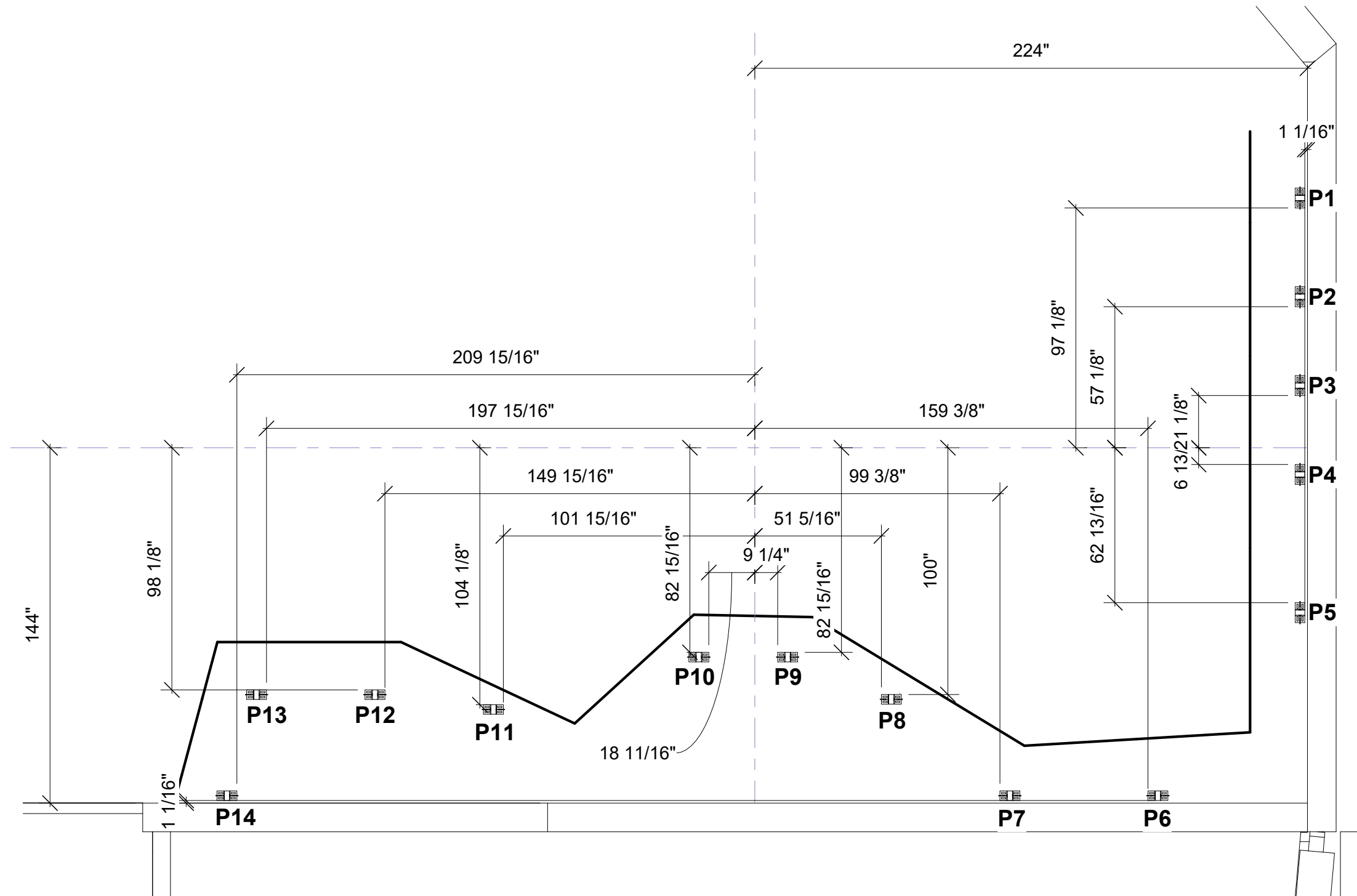
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2836 RECREATION
WAY, GRAND
JUNCTION, CO 81506

BASEBOARD LAYOUT



1
2.2 Profile Baseplate Layout
1/4" = 1'-0"

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PROFILE LAYOUT

DATE: 5/16/2025

AUTHOR: CTB

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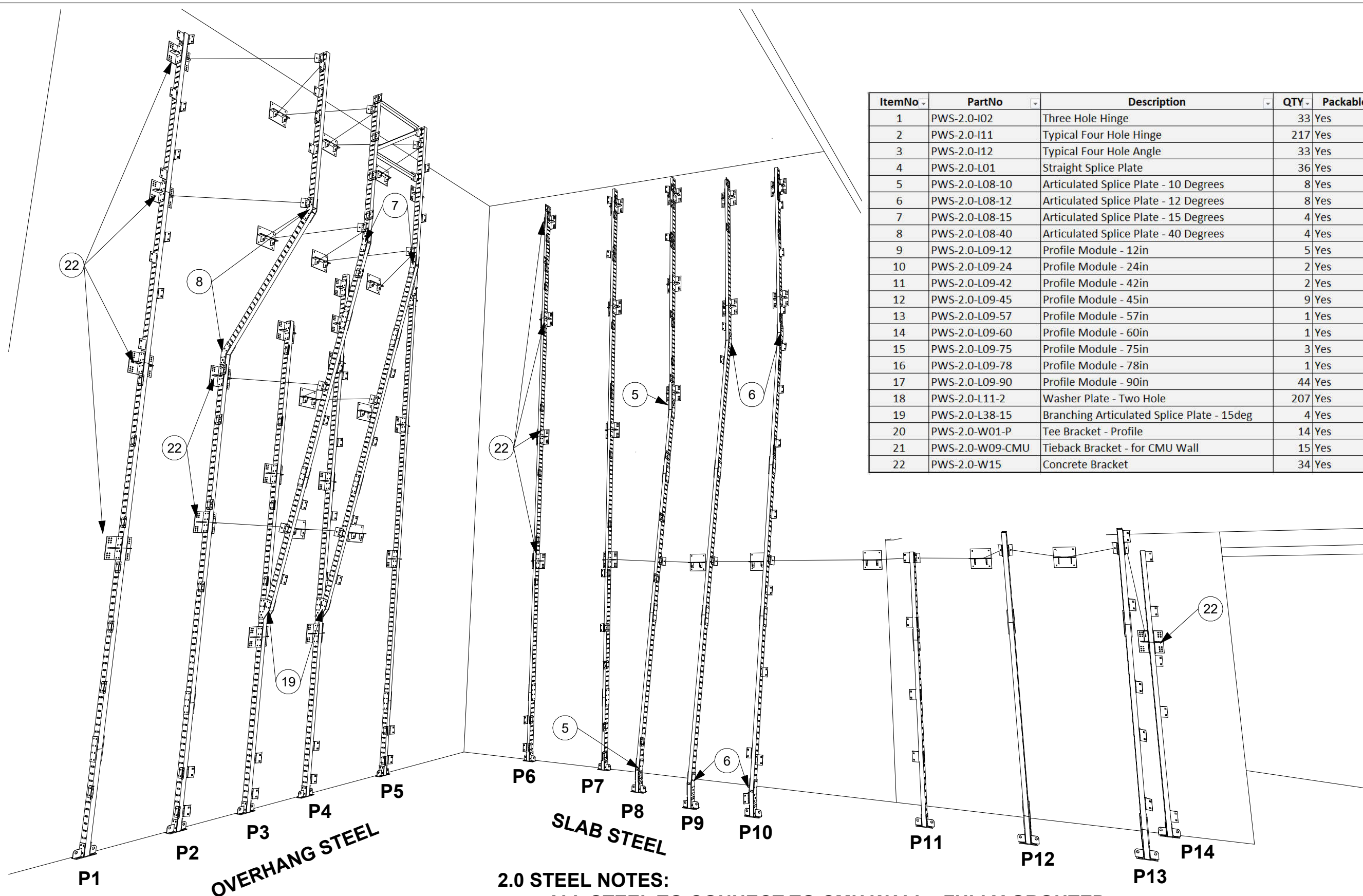
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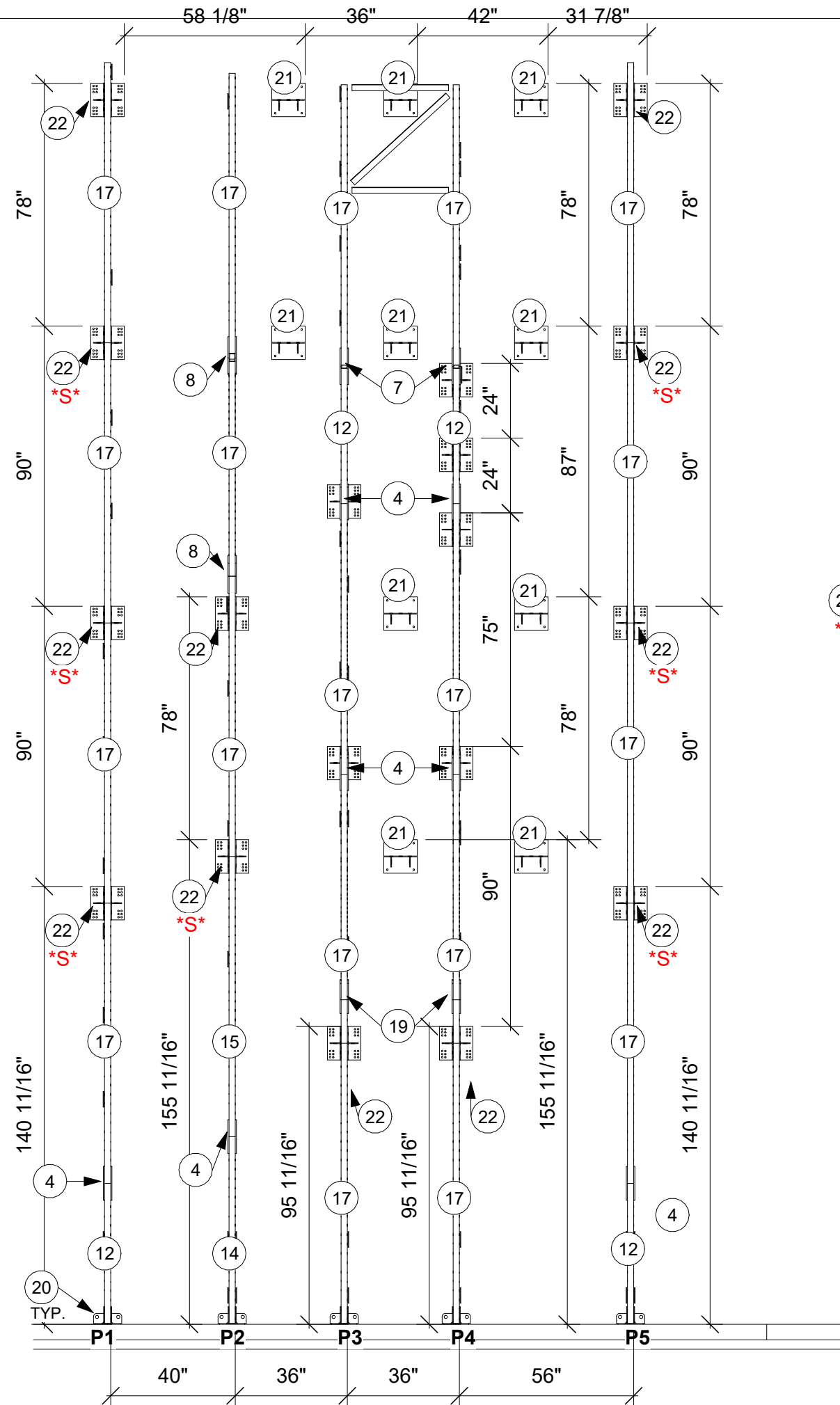
STEEL OVERVIEW

ItemNo	PartNo	Description	QTY	Packable
1	PWS-2.0-I02	Three Hole Hinge	33	Yes
2	PWS-2.0-I11	Typical Four Hole Hinge	217	Yes
3	PWS-2.0-I12	Typical Four Hole Angle	33	Yes
4	PWS-2.0-L01	Straight Splice Plate	36	Yes
5	PWS-2.0-L08-10	Articulated Splice Plate - 10 Degrees	8	Yes
6	PWS-2.0-L08-12	Articulated Splice Plate - 12 Degrees	8	Yes
7	PWS-2.0-L08-15	Articulated Splice Plate - 15 Degrees	4	Yes
8	PWS-2.0-L08-40	Articulated Splice Plate - 40 Degrees	4	Yes
9	PWS-2.0-L09-12	Profile Module - 12in	5	Yes
10	PWS-2.0-L09-24	Profile Module - 24in	2	Yes
11	PWS-2.0-L09-42	Profile Module - 42in	2	Yes
12	PWS-2.0-L09-45	Profile Module - 45in	9	Yes
13	PWS-2.0-L09-57	Profile Module - 57in	1	Yes
14	PWS-2.0-L09-60	Profile Module - 60in	1	Yes
15	PWS-2.0-L09-75	Profile Module - 75in	3	Yes
16	PWS-2.0-L09-78	Profile Module - 78in	1	Yes
17	PWS-2.0-L09-90	Profile Module - 90in	44	Yes
18	PWS-2.0-L11-2	Washer Plate - Two Hole	207	Yes
19	PWS-2.0-L38-15	Branching Articulated Splice Plate - 15deg	4	Yes
20	PWS-2.0-W01-P	Tee Bracket - Profile	14	Yes
21	PWS-2.0-W09-CMU	Tieback Bracket - for CMU Wall	15	Yes
22	PWS-2.0-W15	Concrete Bracket	34	Yes



2.0 STEEL NOTES:

- ALL STEEL TO CONNECT TO CMU WALL - FULLY GROUTED
- P1, P5, P6, P7, P11, AND P14 ARE VERTICAL PROFILES
- P2, P3, P4, P8, P9, P10, P12, AND P13 ARE ARTICULATED OR PARTIALLY ARTICULATED PROFILES
- VERTICAL PROFILES CONNECT TO CMU WITH PWS-2.0-W15 WELDMENTS
- ARTICULATED PROFILES HAVE TIEBACKS TO PWS-2.0-W09-CMU WELDMENT

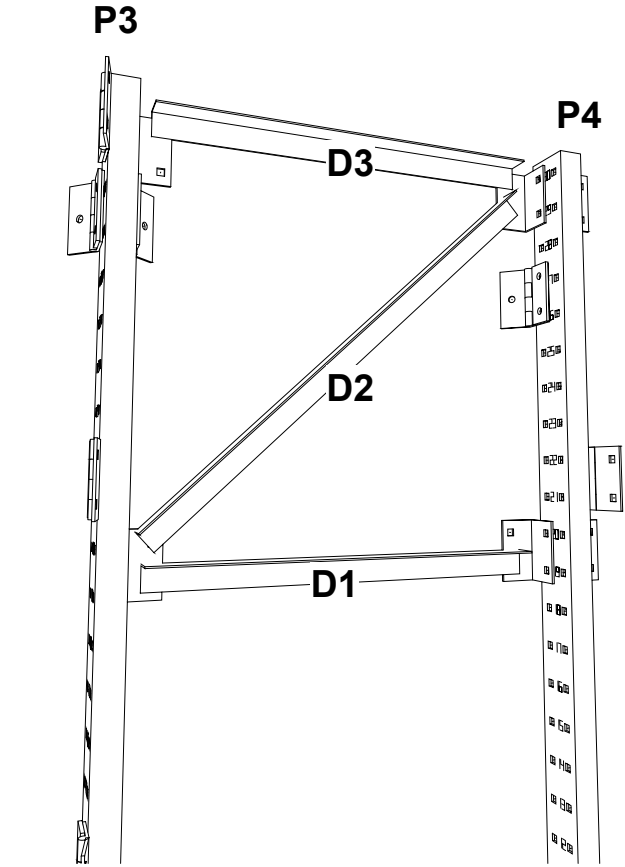


ItemNo	PartNo	Description	QTY	Packable
1	PWS-2.0-I02	Three Hole Hinge	33	Yes
2	PWS-2.0-I11	Typical Four Hole Hinge	217	Yes
3	PWS-2.0-I12	Typical Four Hole Angle	33	Yes
4	PWS-2.0-L01	Straight Splice Plate	36	Yes
5	PWS-2.0-L08-10	Articulated Splice Plate - 10 Degrees	8	Yes
6	PWS-2.0-L08-12	Articulated Splice Plate - 12 Degrees	8	Yes
7	PWS-2.0-L08-15	Articulated Splice Plate - 15 Degrees	4	Yes
8	PWS-2.0-L08-40	Articulated Splice Plate - 40 Degrees	4	Yes
9	PWS-2.0-L09-12	Profile Module - 12in	5	Yes
10	PWS-2.0-L09-24	Profile Module - 24in	2	Yes
11	PWS-2.0-L09-42	Profile Module - 42in	2	Yes
12	PWS-2.0-L09-45	Profile Module - 45in	9	Yes
13	PWS-2.0-L09-57	Profile Module - 57in	1	Yes
14	PWS-2.0-L09-60	Profile Module - 60in	1	Yes
15	PWS-2.0-L09-75	Profile Module - 75in	3	Yes
16	PWS-2.0-L09-78	Profile Module - 78in	1	Yes
17	PWS-2.0-L09-90	Profile Module - 90in	44	Yes
18	PWS-2.0-L11-2	Washer Plate - Two Hole	207	Yes
19	PWS-2.0-L38-15	Branching Articulated Splice Plate - 15deg	4	Yes
20	PWS-2.0-W01-P	Tee Bracket - Profile	14	Yes
21	PWS-2.0-W09-CMU	Tieback Bracket - for CMU Wall	15	Yes
22	PWS-2.0-W15	Concrete Bracket	34	Yes

22
S

INDICATES THAT CONCRETE
BRACKET ACTS AS SPLICE
BETWEEN PROFILE MODULES

*SEE BRACING TABLES FOR
INTERNAL BRACING
LENGTHS



1
3.1 Overhang Steel
1 : 43

2
3.1 P3 P4 INTERNAL BRACING



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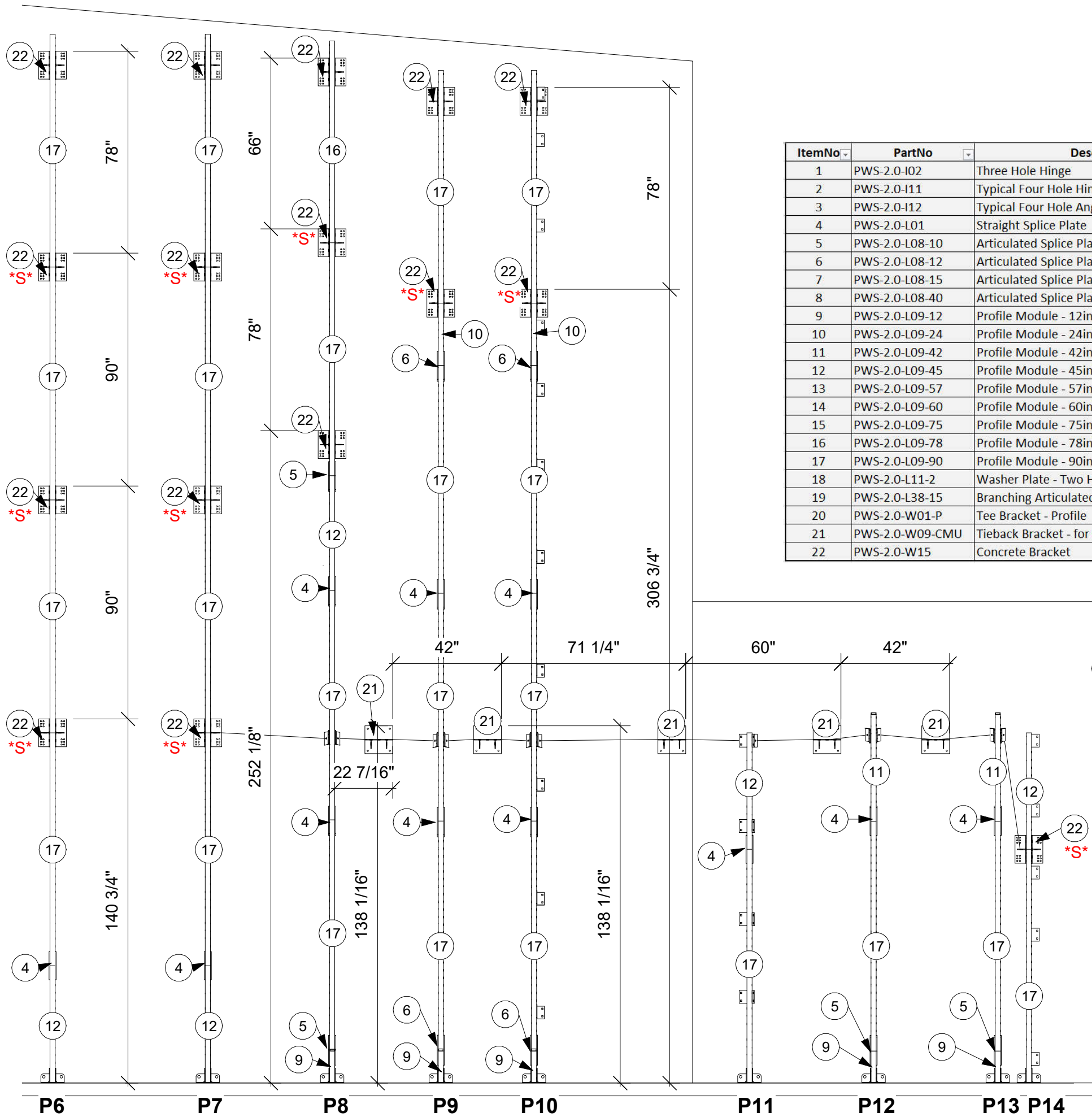
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GRAND JUNCTION REC
CENTER - PANELIZED

2836 RECREATION
WAY, GRAND
JUNCTION, CO 81506

STEEL PAGES



ItemNo	PartNo	Description	QTY	Packable
1	PWS-2.0-I02	Three Hole Hinge	33	Yes
2	PWS-2.0-I11	Typical Four Hole Hinge	217	Yes
3	PWS-2.0-I12	Typical Four Hole Angle	33	Yes
4	PWS-2.0-L01	Straight Splice Plate	36	Yes
5	PWS-2.0-L08-10	Articulated Splice Plate - 10 Degrees	8	Yes
6	PWS-2.0-L08-12	Articulated Splice Plate - 12 Degrees	8	Yes
7	PWS-2.0-L08-15	Articulated Splice Plate - 15 Degrees	4	Yes
8	PWS-2.0-L08-40	Articulated Splice Plate - 40 Degrees	4	Yes
9	PWS-2.0-L09-12	Profile Module - 12in	5	Yes
10	PWS-2.0-L09-24	Profile Module - 24in	2	Yes
11	PWS-2.0-L09-42	Profile Module - 42in	2	Yes
12	PWS-2.0-L09-45	Profile Module - 45in	9	Yes
13	PWS-2.0-L09-57	Profile Module - 57in	1	Yes
14	PWS-2.0-L09-60	Profile Module - 60in	1	Yes
15	PWS-2.0-L09-75	Profile Module - 75in	3	Yes
16	PWS-2.0-L09-78	Profile Module - 78in	1	Yes
17	PWS-2.0-L09-90	Profile Module - 90in	44	Yes
18	PWS-2.0-L11-2	Washer Plate - Two Hole	207	Yes
19	PWS-2.0-L38-15	Branching Articulated Splice Plate - 15deg	4	Yes
20	PWS-2.0-W01-P	Tee Bracket - Profile	14	Yes
21	PWS-2.0-W09-CMU	Tieback Bracket - for CMU Wall	15	Yes
22	PWS-2.0-W15	Concrete Bracket	34	Yes

(22) *S* INDICATES THAT CONCRETE BRACKET ACTS AS SPLICE BETWEEN PROFILE MODULES

1
3.2 Slab Steel
1 : 42



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STEEL PAGES

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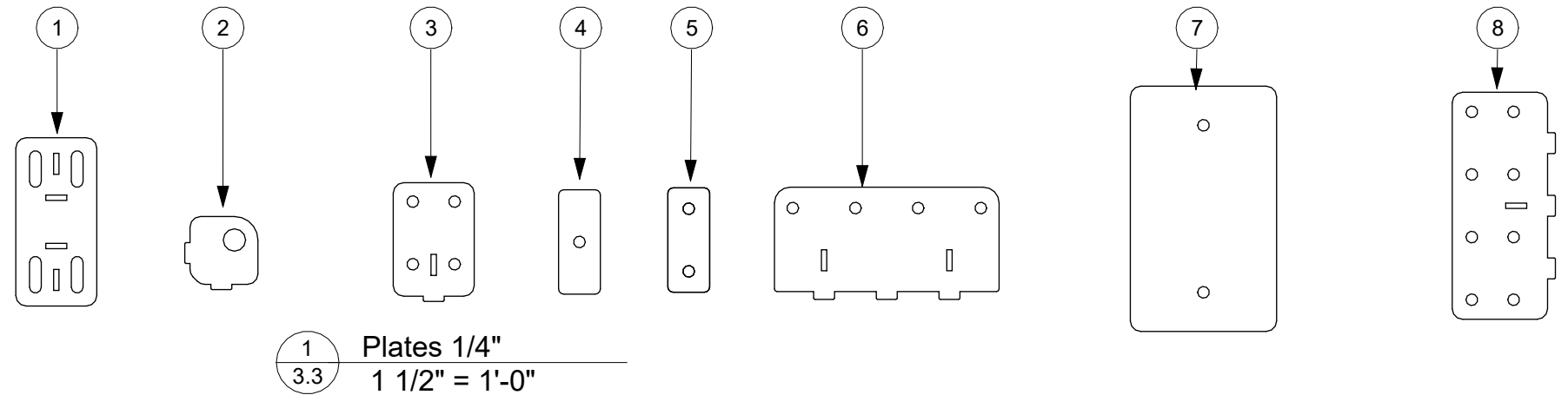
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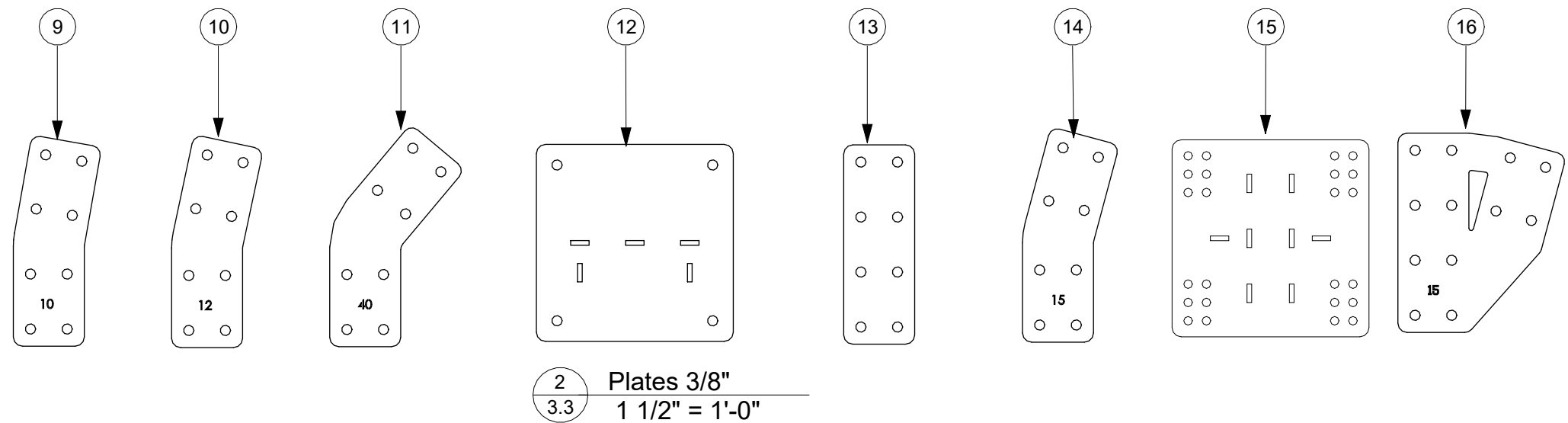
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JUNCTION, CO 81506

LASERED PLATES



ItemNo	PartNo	Description	Qty	Material	Thickness	Packable
1	PWS-2.0-L03-P	Base Plate - Profile	14	ASTM A36 Steel	0.25	No
2	PWS-2.0-L04	Bracket Gusset	126	ASTM A36 Steel	0.25	No
3	PWS-2.0-L05	Profile Receiver	28	ASTM A36 Steel	0.25	No
4	PWS-2.0-L11-1	Washer Plate - Single Hole	97	ASTM A36 Steel	0.25	Yes
5	PWS-2.0-L11-2	Washer Plate - Double Hole	207	ASTM A36 Steel	0.25	Yes
6	PWS-2.0-L19-CMU	Tieback Fin Plate - for CMU Wall	15	ASTM A36 Steel	0.25	No
7	PWS-2.0-L10	Double Point Anchor Plate	14	ASTM A36 Steel	0.25	No
8	PWS-2.0-L30	Concrete Bracket Splice Plate	68	ASTM A36 Steel	0.25	No
9	PWS-2.0-L08-10	Articulated Splice Plate - 10 Degrees	8	ASTM A572 Grade 50 Steel	0.375	Yes
10	PWS-2.0-L08-12	Articulated Splice Plate - 12 Degrees	8	ASTM A572 Grade 50 Steel	0.375	Yes
11	PWS-2.0-L08-40	Articulated Splice Plate - 40 Degrees	4	ASTM A572 Grade 50 Steel	0.375	Yes
12	PWS-2.0-L18	Tieback Anchor Plate	15	ASTM A572 Grade 50 Steel	0.375	No
13	PWS-2.0-L01	Straight Splice Plate	34	ASTM A572 Grade 50 Steel	0.375	Yes
14	PWS-2.0-L08-15	Articulated Splice Plate - 15 Degrees	4	ASTM A572 Grade 50 Steel	0.375	Yes
15	PWS-2.0-L31	Concrete Bracket Anchor Plate	36	ASTM A572 Grade 50 Steel	0.375	No
16	PWS-2.0-L38-15	Branching Articulated Splice Plate - 15 Degrees	4	ASTM A572 Grade 50 Steel	0.375	Yes



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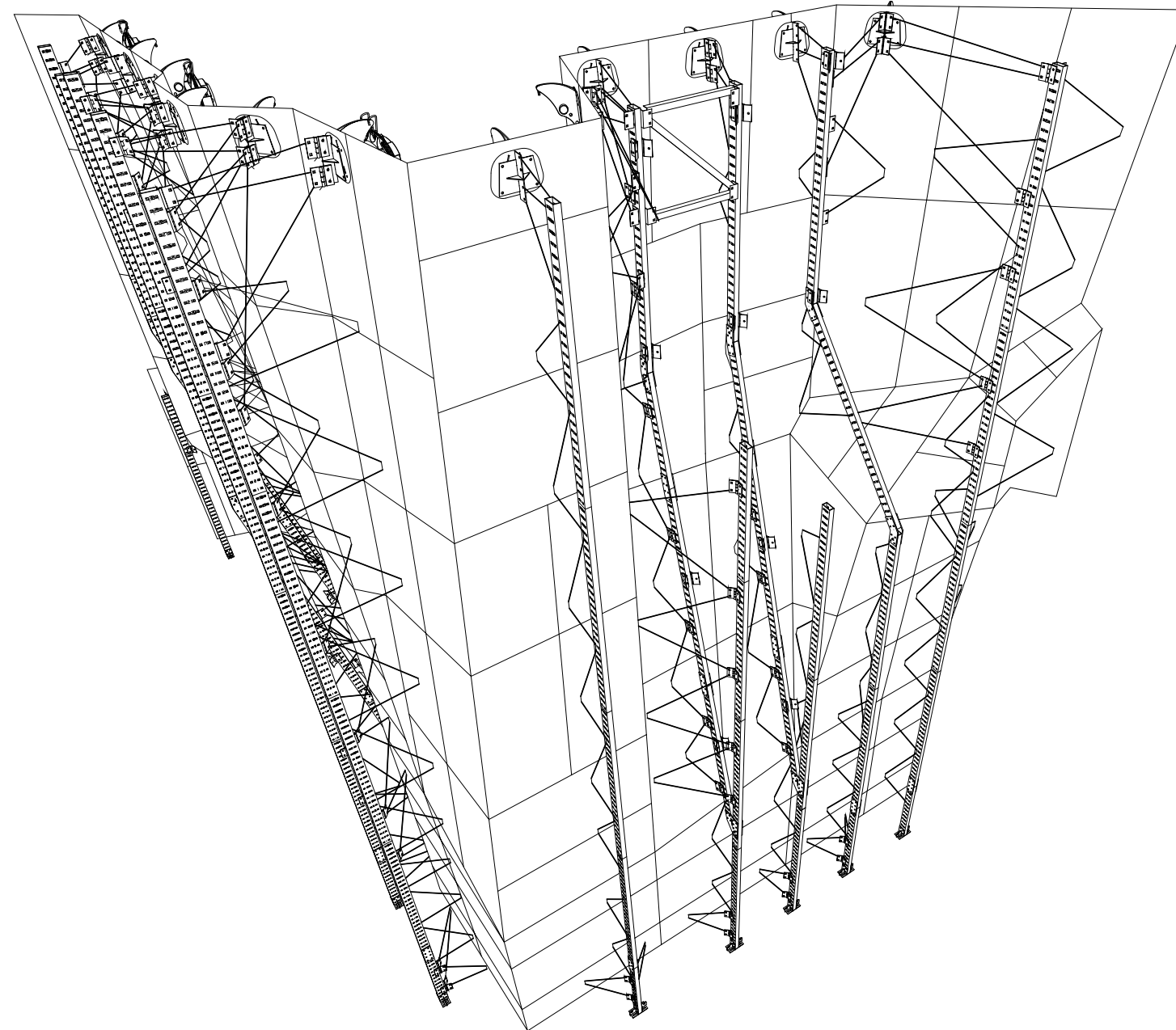
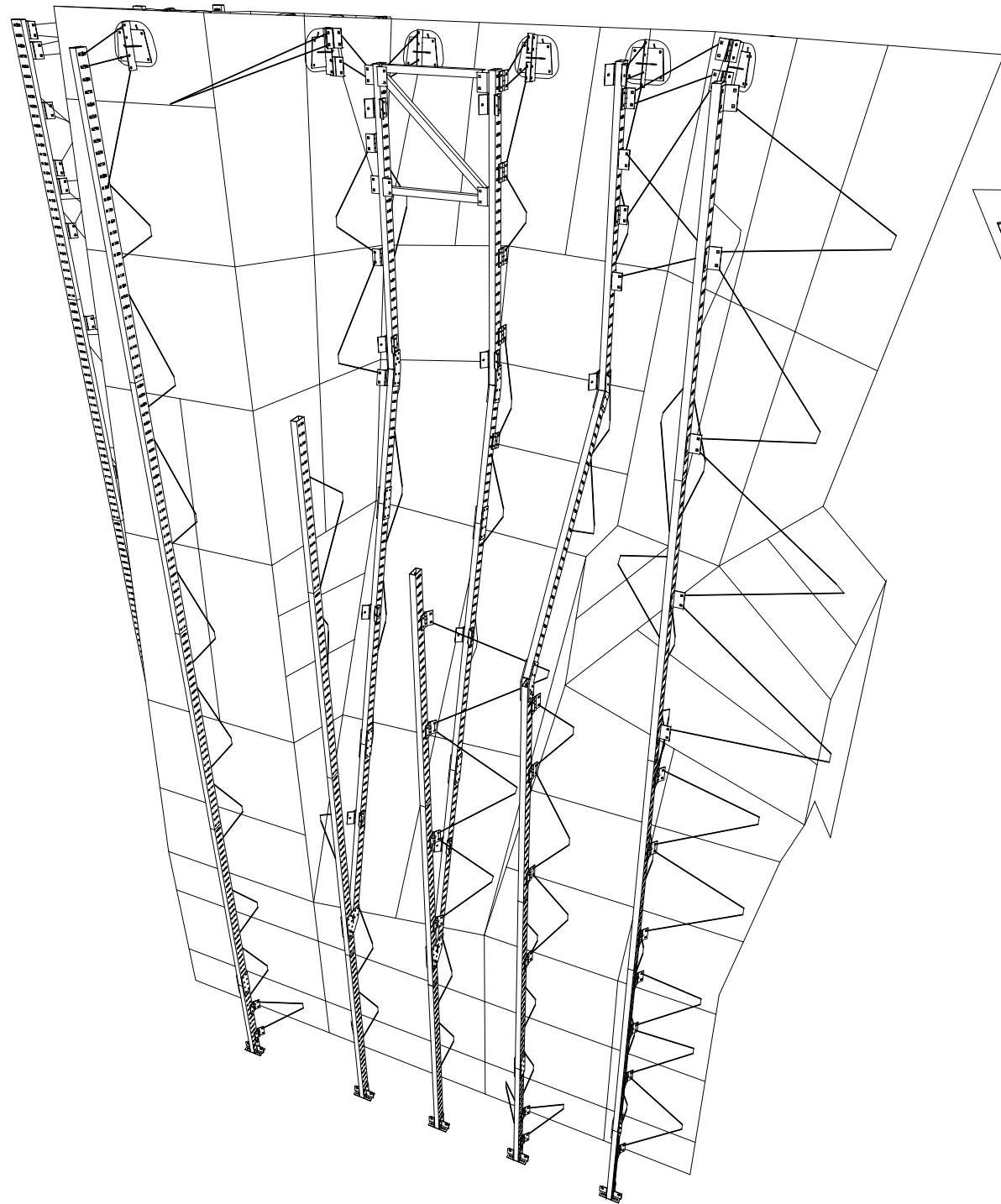
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2836 RECREATION
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BRACING VIEWS

4.0



1
4.0
BRACING VIEW 1

2
4.0
BRACING VIEW 2

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AUTHOR: CTB

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NUMBER DATE

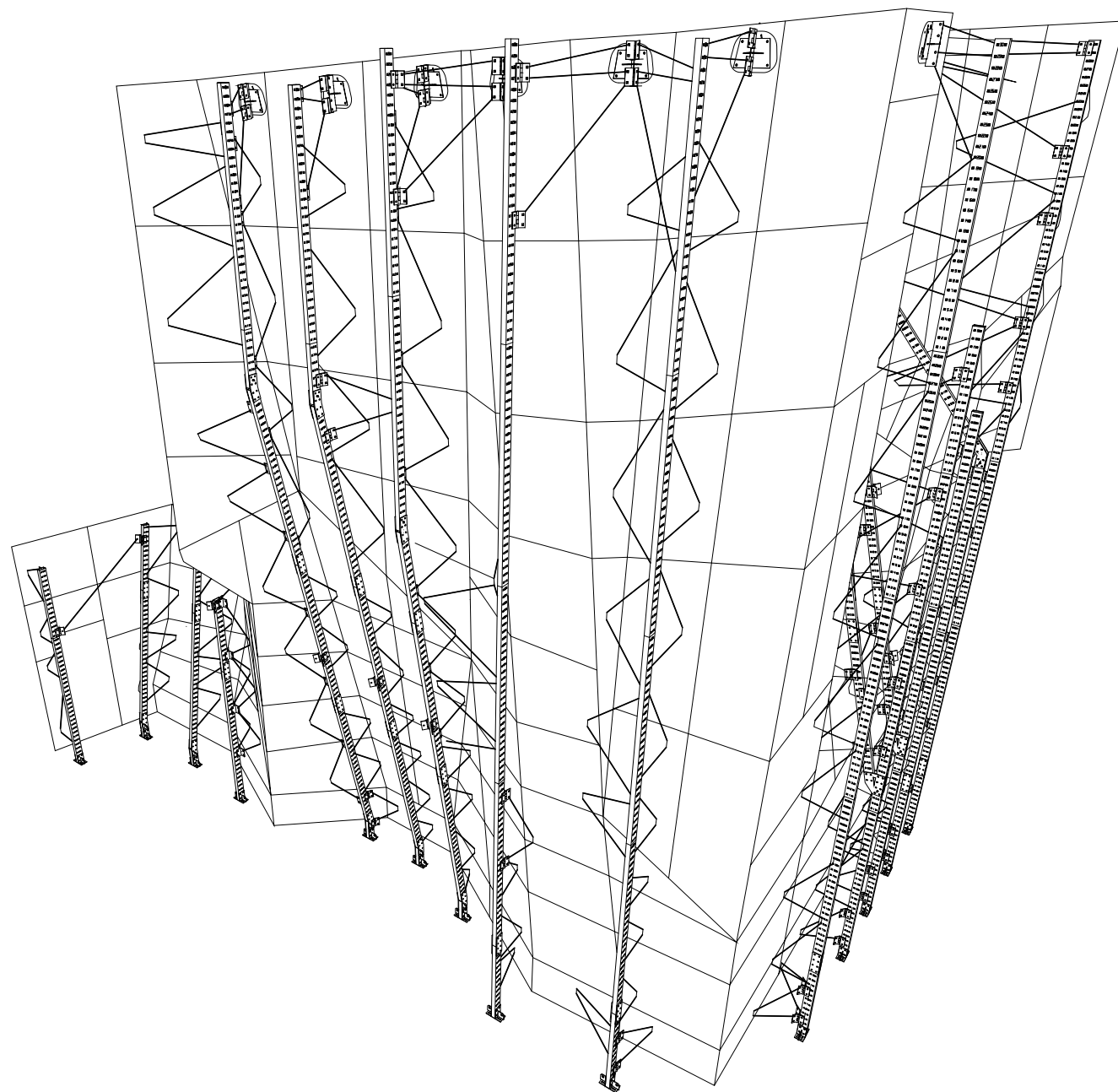
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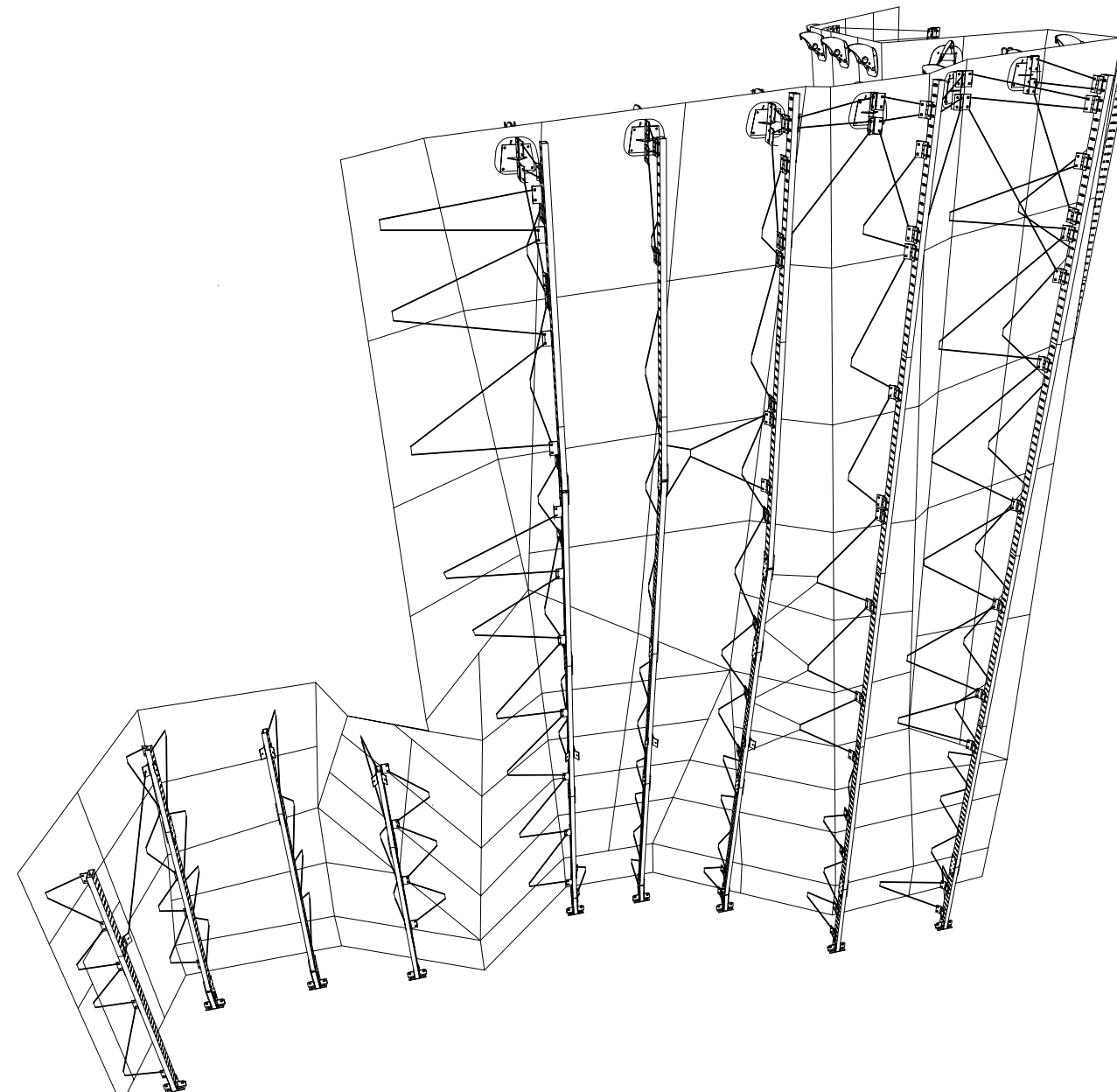
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BRACING VIEWS

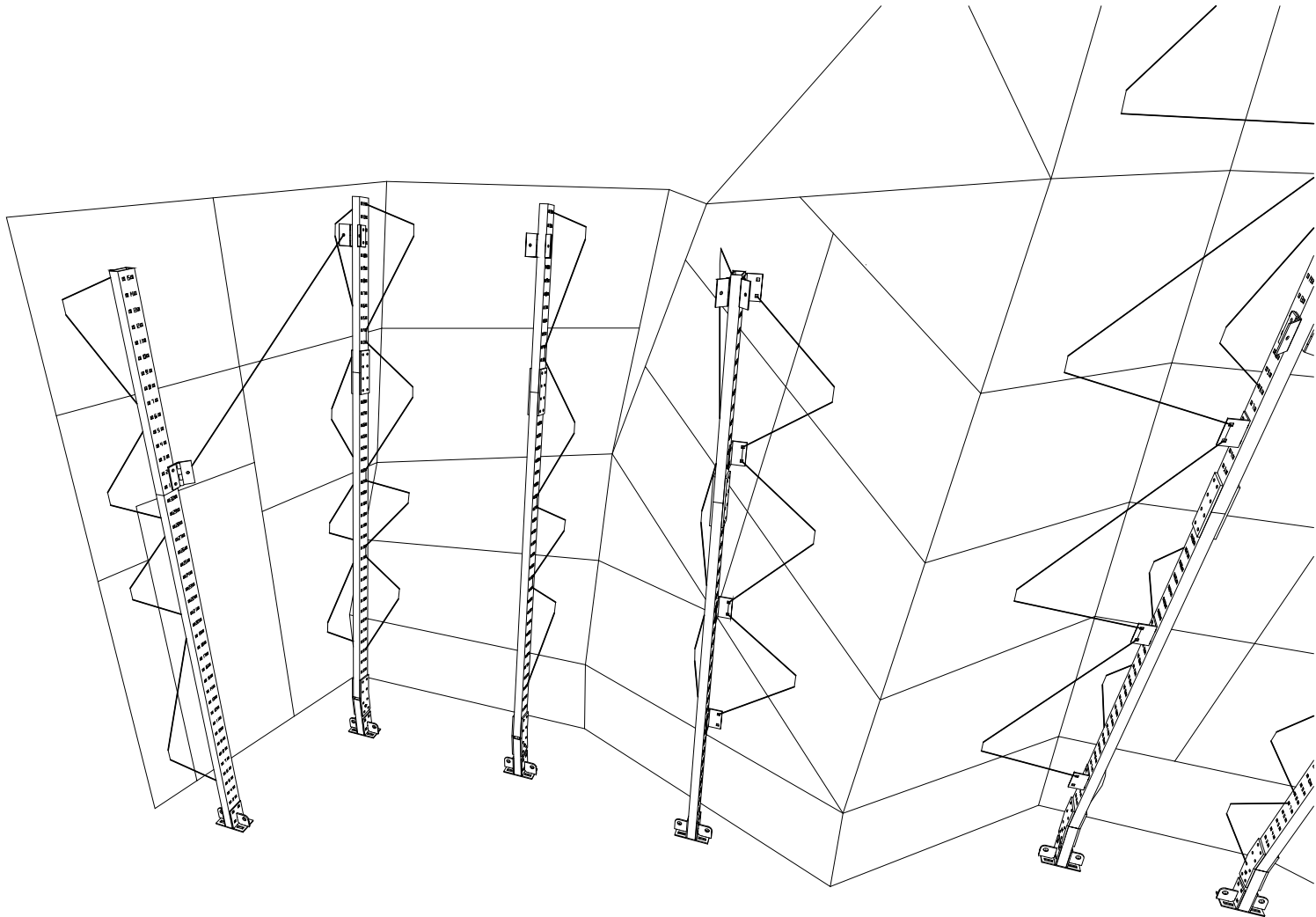
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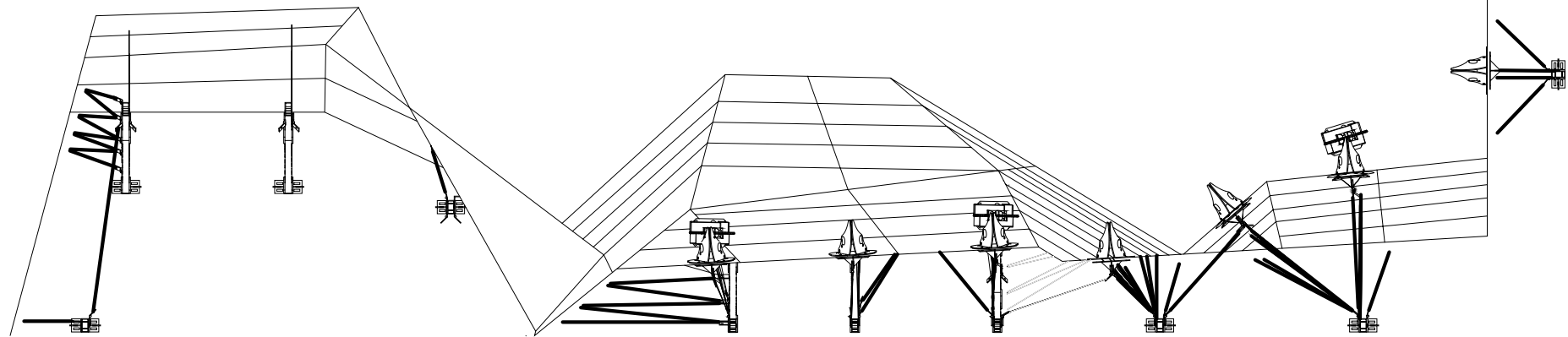
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4.1 BRACING VIEW 3



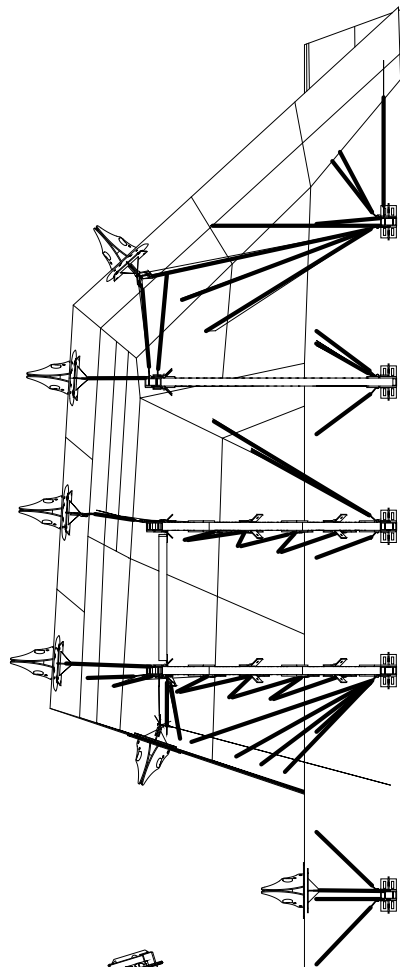
2
4.1 BRACING VIEW 4



1
4.2 BRACING VIEW 5



2
4.2 BRACING TOP



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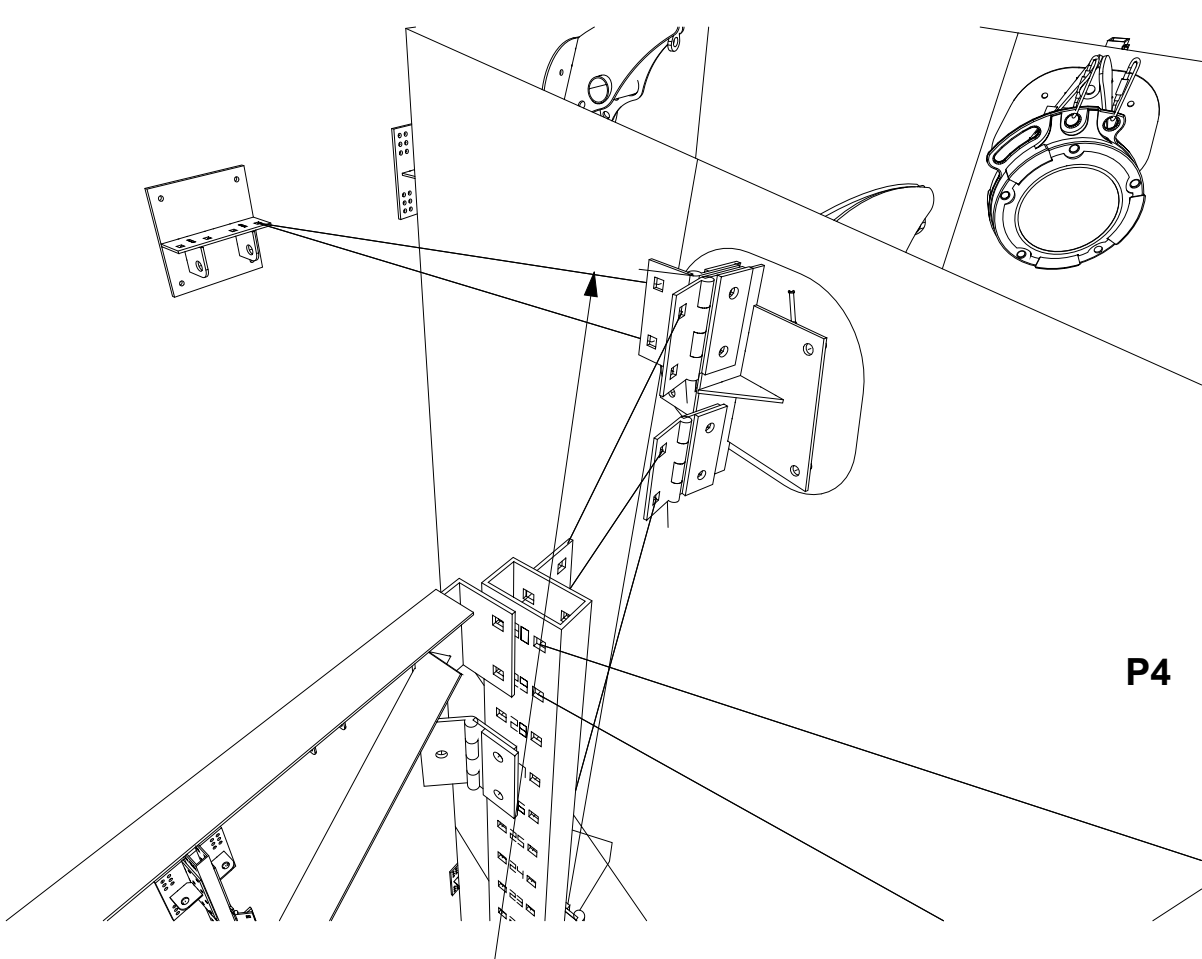
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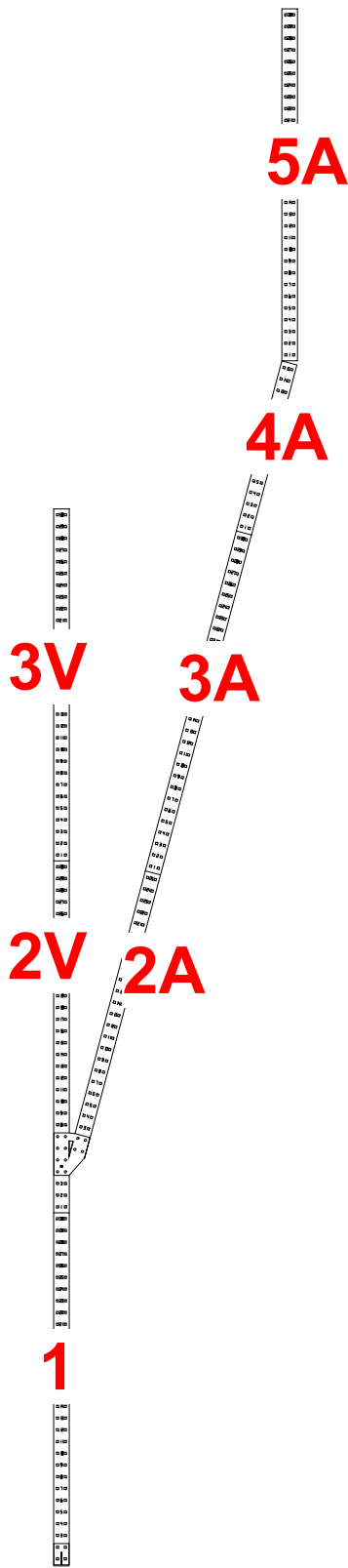
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BRACING VIEWS

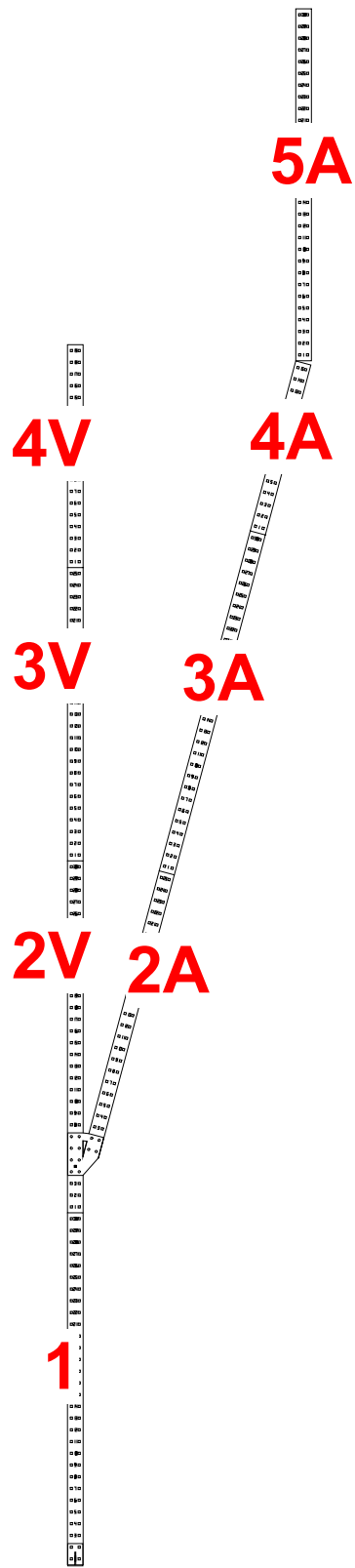


ATTACH TWO EXTRA TENSION MEMBERS TO
TIEBACK BRACKET FOR BELAY BAR ADJACENT
TO P4
- BOTH "SG" PINCHPIPES

1
4.3
ETXRA BELAY BAR BRACING



2
4.3
P3 SIDE VIEW
1/4" = 1'-0"



3
4.3
P4 SIDE VIEW
1/4" = 1'-0"

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GRAND JUNCTION REC
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DETAILS

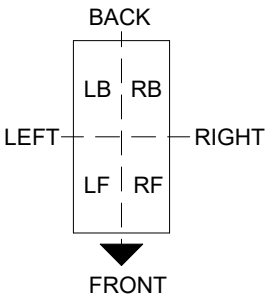
P1		VERTICAL PROFILE - 5 SECTIONS				
SECTION	X	HOLE #	CONNECTION	TYPE	ANGLE (IN)	PINCH PIPE
1 [45in]	W	10-LF	HINGE	C	25.5	
	W	10-RF	DIRECT	C	18.75	
0° SPLICE - PLATES						
2 [90in]	W	9-LF	HINGE	T	46.125	
	W	9-RF	DIRECT	T	42.125	
	W	10-LF	HINGE	C	25.625	
	W	10-RF	DIRECT	C	18.75	
	W	18-LF	HINGE	T	31.5	
	W	19-LF	HINGE	C	25.75	
	W	24-RF	DIRECT	T	41.5	
	W	25-RF	DIRECT	C	18.75	
	W	28-LF	HINGE	T	33	
0° SPLICE - CMU BRACKET						
3 [90in]	W	5-LF	HINGE	C	33.875	
	W	9-RF	DIRECT	T	41.625	
	W	10-RF	DIRECT	C	18.875	
	W	17-LF	HINGE	T	44	
	W	18-LF	HINGE	C	34	
	W	24-RF	DIRECT	T	41.375	
	W	25-RF	DIRECT	C	20	
	DP	26-LF	DIRECT	C	24.25	
	W	28-LF	HINGE	T	39.75	
0° SPLICE - CMU BRACKET						
4 [90in]	W	4-LB	ANGLE	C	46.75	
	DP	6-LF	DIRECT	T	22.25	
	W	9-RF	DIRECT	T	37.375	
	W	10-RF	DIRECT	C	17.75	
	LB	13-RF	HINGE	C	47.875	
	W	18-LB	ANGLE	T	59.375	
	W	19-LB	ANGLE	C	43.25	
	W	21-RF	DIRECT	T	35.5	
	LB	22-RF	HINGE	T	56.75	
	LB	23-RF	HINGE	C	53.75	
	W	25-RF	DIRECT	C	32.125	
0° SPLICE - CMU BRACKET						
5 [90in]	W	3-LB	ANGLE	T	49.75	
	W	4-LB	ANGLE	C	29.5	
	LB	8-RF	HINGE	T	59.125	
	W	10-RF	DIRECT	T	50.25	
	W	11-RF	DIRECT	C	47.25	
	BB	17-RF	HINGE	C	66.25	
	W	18-LB	ANGLE	T	46.875	
	W	19-LB	ANGLE	C	38.25	
	W	23-RF	DIRECT	T	48.25	
	W	29-LB	ANGLE	T	45	
	BB	29-RF	HINGE	T		SG
	BB	30-RF	HINGE	T		SG

X - CONNECT TO WHAT	
DP	DOUBLE POINT
LB	LEAD BOLT
BB	BELAY BAR
TB	TIEBACK
W	WALL CONNECTION

**** A YELLOW SHADED CELL INDICATES THE NEED FOR A WASHER PLATE INSTALLED ON A HINGE - NECESSARY FOR ALL TIEBACKS, LEADBOLTS, AND BELAY BRACES THAT USE HINGES**

P2		ARTICULATED PROFILE - 5 SECTIONS				
SECTION	X	HOLE #	CONNECTION	TYPE	ANGLE (IN)	PINCH PIPE
1 [60in]	DP	4-LF	HINGE	C	19.375	
	DP	4-RF	HINGE	C	19.625	
	DP	10-LF	HINGE	T	21.625	
	DP	10-RF	HINGE	T	21.875	
	W	11-RF	DIRECT	C	18.625	
0° SPLICE - PLATES						
2 [90in]	W	4-RF	DIRECT	T	40.125	
	W	5-RF	DIRECT	C	18.5	
	W	16-RF	DIRECT	T	36	
	W	17-RF	DIRECT	C	18.5	
	LB	20-LF	HINGE	C	19.125	
	W	27-RF	DIRECT	T	33.5	
0° SPLICE - CMU BRACKET						
3 [90in]	LB	3-LF	HINGE	T	34.625	
	LB	4-LF	HINGE	C	17.25	
	LB	18-LF	HINGE	T	41.875	
	LB	19-LF	HINGE	C	17.75	
	LB	27-LF	HINGE	T	23.75	
40° SPLICE (OVERHANG) - PLATES						
	LB	16-RF	DIRECT	C	34.5	
	LB	24-LF	DIRECT	C	19	
	LB	26-RF	DIRECT	T	38.625	
-40° SPLICE (BACK TO VERT) - PLATES						
5 [90in]	TB	1/2-LB	3H-HINGE	TB		SH
	TB	1/2-RB	3H-HINGE	TB		SG
	LB	2-LF	DIRECT	T	19.125	
	LB	12-LF	ANGLE	C	26.25	
	LB	13-LF	DIRECT	C	14	
	BB	17-LB	HINGE	C	42.375	
	LB	20-LF	DIRECT	T	18.125	
	BB	21-LF	DIRECT	C	27.5	
	LB	23-LF	ANGLE	T	33.5	
	BB	27-LB	HINGE	T		SC
	BB	28-LB	HINGE	T		SC
	BB	29-LF	DIRECT	T		SA
	BB	30-LF	DIRECT	T		SB
	TB	29/30-LB	3H-HINGE	TB		SH
	TB	29/30-RB	3H-HINGE	TB		SG

HINGE	USE WASHER PLATE
3H-HINGE	
HINGE	NO WASHER PLATE NEEDED



****REFER TO DETAIL 2/4.3 FOR P3 SIDE VIEW**

P3		BRANCHING ARTICULATED PROFILE - 7 SECTIONS				
SECTION	X	HOLE #	CONNECTION	TYPE	ANGLE (IN)	PINCH PIPE
1 [90in]	DP	4-RF	HINGE	C	17.25	
	DP	10-RF	HINGE	T	19.75	
	W	11-RF	DIRECT	C	18.625	
	W	23-RF	DIRECT	T	38.125	
	W	24-RF	DIRECT	C	18.75	
	W	24-RF	DIRECT	C	18.75	
0° SPLICE - CMU BRACKET						
2V [90in]	BRANCHING SPLICE PLATE HOLES 4-7					
	LB	11-LF	HINGE	C	24.75	
	LB	24-LF	HINGE	T	40.625	
3V [90in]	LB	25-LF	HINGE	C	35.5	
	0° SPLICE - CMU BRACKET					
	LB	10-LF	HINGE	T	56.125	
3V [90in]	LB	11-LF	HINGE	C	47.625	
	LB	24-LF	HINGE	T	61	
	LB	24-LF	HINGE	T	61	
15° BRANCHING SPLICE (OVERHANG) - PLATES						
2A [75in]	W	4-RF	DIRECT	T	41.625	
	LB	7-RF	HINGE	C	16.375	
	TB	15/16-LB	3H-HINGE	TB		SD
	TB	15/16-RB	3H-HINGE	TB		SB
	LB	20-RF	HINGE	T	32.25	
	LB	21-RF	HINGE	C	14.5	
0° SPLICE - PLATES						
3A [90in]	LB	11-RF	HINGE	T	41.5	
	LB	12-RF	HINGE	C	15.25	
	TB	17/18-LB	3H-HINGE	TB		SF
	TB	17/18-RB	3H-HINGE	TB		SD
	LB	21-RF	HINGE	T	23.75	
	LB	28-LF	DIRECT	C	17.75	
0° SPLICE - PLATES						
4A [45in]	LB	8-LF	DIRECT	T	26.375	
	LB	10-LF	HINGE	C	11.75	
-15° SPLICE (BACK TO VERT) - PLATES						
5A [90in]	TB	3/4-LB	3H-HINGE	TB		SG
	TB	3/4-LB	3H-HINGE	TB		SG
	LB	5-LF	HINGE	T	23.375	
	LB	14-LF	HINGE	C	13.25	
	P4	19-RB	ANGLE	PS	D1 - 31[29.5 H-H]	
	P4	20-RB	ANGLE	PS	D2 - 40[38.5 H-H]	
	LB	21-LF	HINGE	T	17.25	
	BB	22-LF	HINGE	C	26	
	TB	27/28-LB	3H-HINGE	TB		SG
	TB	27/28-RB	3H-HINGE	TB		SG
	BB	29-LF	HINGE	T		SA
	BB	30-LF	HINGE	T		SA
	P4	30-RB	ANGLE	PS	D3 - 31[29.5 H-H]	
	P4	30-RB	ANGLE	PS	D3 - 31[29.5 H-H]	



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GRAND JUNCTION REC
CENTER - PANELIZED

2836 RECREATION
WAY, GRAND
JUNCTION, CO 81506

BRACING TABLES

P4	BRANCHING ARTICULATED PROFILE - 8 SECTIONS					
SECTION	X	HOLE #	CONNECTION	TYPE	ANGLE (IN)	PINCH PIPE
1 [90in]	DP	4-RF	HINGE	C	21	
	DP	10-RF	HINGE	T	23	
	W	11-RF	DIRECT	C	18.625	
	W	23-RF	DIRECT	T	37.75	
	W	24-RF	DIRECT	C	18.625	
0° SPLICE - CMU BRACKET						
2V [90in]	BRANCHING SPLICE PLATE HOLES 4-7					
	LB	12-RF	HINGE	C	33.125	
	LB	23-RF	HINGE	T	43.375	
	LB	24-RF	HINGE	C	36.25	
0° SPLICE - CMU BRACKET						
3V [90in]	LB	8-RF	HINGE	T	52	
	LB	9-RF	HINGE	C	40.75	
	LB	22-RF	HINGE	T	51	
	LB	23-RF	HINGE	C	50.75	
0° SPLICE - CMU BRACKET						
4V [57in]	LB	13-RF	HINGE	T	57.625	
15° BRANCHING SPLICE (OVERHANG) - PLATES						
2A [75in]	W	4-RF	DIRECT	T	42	
	LB	7-RF	HINGE	C	18.375	
	TB	15/16-LB	3H-HINGE	TB		SB
	TB	15/16-RB	3H-HINGE	TB		SC
	LB	18-RF	HINGE	T	27.5	
	LB	19-RF	HINGE	C	20	
0° SPLICE - PLATES						
3A [90in]	LB	9-RF	HINGE	T	35.75	
	LB	10-RF	HINGE	C	20.5	
	TB	17/18-LB	3H-HINGE	TB		SD
	TB	17/18-RB	3H-HINGE	TB		SE
	LB	23-RF	HINGE	T	29.875	
	LB	24-RF	HINGE	C	24.875	
	LB	25-RF	HINGE	T	40.75	
	LB	26-RF	HINGE	C	19.375	
0° SPLICE - PLATES						
4A [45in]	LB	10-RF	HINGE	T	30.75	
	LB	11-RF	HINGE	C	11.75	
	LB	15-RB	HINGE	C	15.625	
-15° SPLICE (BACK TO VERT) - PLATES						
5A [90in]	TB	3/4-LB	3H-HINGE	TB		SG
	TB	3/4-RB	3H-HINGE	TB		SH
	LB	10-RF	HINGE	T	38.875	
	LB	11-RF	HINGE	C	21.25	
	LB	12-RB	HINGE	T	35.25	
	LB	13-RB	HINGE	C	16	
	BB	17-LF	DIRECT	C	42.875	
	P3	19-LB	ANGLE	PS	D1 - 31 [29.5 H-H]	
	BB	20-RB	ANGLE	C	31.375	
	LB	21-RF	HINGE	T	18.5	
	LB	23-RB	HINGE	T	25.875	
	TB	26/27-LB	3H-HINGE	TB		SG
	TB	26/27-RB	3H-HINGE	TB		SH
	BB	29-LF	DIRECT	T		SC
	BB	29-RB	ANGLE	T		SA
	P3	29-LB	ANGLE	PS	D2 - 40 [38.5 H-H]	
	BB	30-LF	DIRECT	T		SC
	BB	30-RB	ANGLE	T		SA
	P3	30-LB	ANGLE	PS	D3 - 31 [29.5 H-H]	

P5	VERTICAL PROFILE - 5 SECTIONS					
SECTION	X	HOLE #	CONNECTION	TYPE	ANGLE (IN)	PINCH PIPE
1 [45in]	DP	4-LF	HINGE	C	21.25	
	DP	4-RF	HINGE	C	22.375	
	DP	10-LF	HINGE	T	23.375	
	DP	10-RF	HINGE	T	24.375	
	W	11-RF	DIRECT	C	18.625	
0° SPLICE - PLATES						
2 [90in]	W	8-RF	DIRECT	T	38	
	W	9-RF	DIRECT	C	18.625	
	W	19-RF	DIRECT	T	32	
	LB	27-RF	DIRECT	C	18.75	
0° SPLICE - CMU BRACKET						
3 [90in]	LB	8-RF	DIRECT	T	34	
	LB	9-RF	DIRECT	C	18.625	
	LB	24-RF	DIRECT	T	45.75	
	LB	25-RF	DIRECT	C	18.625	
0° SPLICE - CMU BRACKET						
4 [90in]	LB	10-RF	DIRECT	T	44.875	
	LB	11-RF	DIRECT	C	18.625	
	LB	26-RF	DIRECT	T	45.25	
	LB	27-RF	DIRECT	C	18.75	
0° SPLICE - CMU BRACKET						
5 [90in]	LB	11-RF	DIRECT	T	41.875	
	LB	12-RF	DIRECT	C	19	
	BB	19-LF	DIRECT	C	34.25	
	LB	20-RF	DIRECT	T	25.75	
	BB	29-LF	DIRECT	T		SB
	BB	30-LF	DIRECT	T		SB

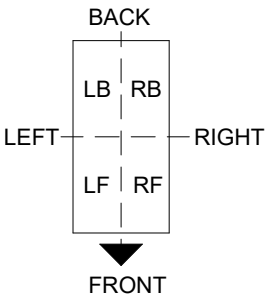
****REFER TO DETAIL 3/4.3 FOR P4
SIDE VIEW**

X - CONNECT TO WHAT	
DP	DOUBLE POINT
LB	LEAD BOLT
BB	BELAY BAR
TB	TIEBACK
W	WALL CONNECTION

**** A YELLOW SHADED CELL INDICATES
THE NEED FOR A WASHER PLATE
INSTALLED ON A HINGE - NECESSARY FOR
ALL TIEBACKS, LEADBOLTS, AND BELAY
BRACES THAT USE HINGES**

HINGE	USE WASHER PLATE
3H-HINGE	
HINGE	NO WASHER PLATE NEEDED

P6	VERTICAL PROFILE - 5 SECTIONS					
SECTION	X	HOLE #	CONNECTION	TYPE	ANGLE (IN)	PINCH PIPE
1 [45in]	DP	4-LF	HINGE	C	20.75	
	DP	4-RF	HINGE	C	33	
	DP	10-LF	HINGE	T	21.75	
	DP	10-RF	HINGE	T	33.625	
	W	11-RF	DIRECT	C	21.75	
0° SPLICE - PLATES						
2 [90in]	W	7-RF	DIRECT	T	36.75	
	W	8-RF	DIRECT	C	21.75	
	W	17-RF	DIRECT	T	31.75	
	W	18-RF	DIRECT	C	21.75	
	W	24-RF	DIRECT	T	26.375	
	LB	26-RF	HINGE	C	35.125	
	LB	27-RF	DIRECT	C	23.25	
0° SPLICE - CMU BRACKET						
3 [90in]	LB	5-RF	HINGE	T	39.75	
	LB	6-RF	HINGE	C	36.375	
	LB	8-RF	DIRECT	T	37	
	LB	9-RF	DIRECT	C	25.75	
	LB	21-RF	HINGE	T	46.875	
	LB	22-RF	HINGE	C	35.125	
	LB	24-RF	DIRECT	T	48.125	
	LB	25-RF	DIRECT	C	29.125	
0° SPLICE - CMU BRACKET						
4 [90in]	LB	7-RF	HINGE	T	46.125	
	LB	8-RF	HINGE	C	38	
	LB	10-RF	DIRECT	T	50	
	LB	11-RF	DIRECT	C	32.5	
	LB	25-RF	DIRECT	T	49.625	
	LB	26-RF	DIRECT	C	36.125	
	LB	27-RF	HINGE	T	56.625	
	LB	28-RF	HINGE	C	39.375	
0° SPLICE - CMU BRACKET						
5 [90in]	BB	9-RF	HINGE	C	67.375	
	LB	11-RF	DIRECT	T	52	
	LB	12-RF	DIRECT	C	39.375	
	LB	13-RF	HINGE	T	58.875	
	LB	14-RF	HINGE	C	42	
	BB	16-RF	HINGE	C	49.75	
	LB	21-RF	HINGE	T	46.375	
	LB	23-RF	DIRECT	T	47	
	BB	27-RF	HINGE	T		SE
	BB	28-RF	HINGE	T		SE
	BB	29-RF	HINGE	T		SD
	BB	30-RF	HINGE	T		SD



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BRACING TABLES

P7		VERTICAL PROFILE - 5 SECTIONS				
SECTION	X	HOLE #	CONNECTION	TYPE	ANGLE (IN)	PINCH PIPE
1 [45in]	DP	4-RF	HINGE	C	23.375	
	DP	10-RF	HINGE	T	26.875	
	W	11-RF	DIRECT	C	22.125	
0° SPLICE - PLATES						
2 [90in]	W	6-RF	DIRECT	T	34.375	
	W	8-RF	HINGE	C	18.625	
	W	15-RF	HINGE	T	25	
	W	16-LF	HINGE	C	15.75	
	W	27-LF	HINGE	T	33.75	
	W	27-LF	HINGE	T	33.75	
	LB	28-RF	HINGE	C	28.75	
0° SPLICE - CMU BRACKET						
3 [90in]	LB	8-RF	HINGE	T	40.625	
	LB	9-RF	HINGE	C	26.5	
	LB	24-RF	HINGE	T	48.875	
	LB	25-RF	HINGE	C	24.625	
0° SPLICE - CMU BRACKET						
4 [90in]	LB	8-RF	HINGE	T	43	
	LB	10-RF	HINGE	C	17.5	
	LB	25-RF	HINGE	T	41.375	
	LB	26-RF	HINGE	C	19.125	
0° SPLICE - CMU BRACKET						
5 [90in]	LB	12-RF	HINGE	T	45.125	
	LB	13-RF	HINGE	C	18.5	
	BB	14-LF	HINGE	C	50.75	
	BB	15-RF	HINGE	C	34.625	
	LB	23-RF	HINGE	T	31.625	
	BB	27-LF	HINGE	T		SD
	BB	27-RF	HINGE	T		SA
	BB	28-LF	HINGE	T		SD
	BB	28-RF	HINGE	T		SA

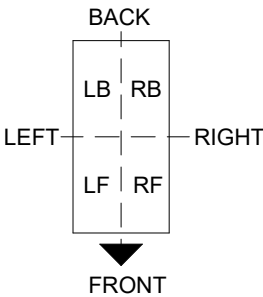
X - CONNECT TO WHAT	
DP	DOUBLE POINT
LB	LEAD BOLT
BB	BELAY BAR
TB	TIEBACK
W	WALL CONNECTION

**** A YELLOW SHADED CELL INDICATES THE NEED FOR A WASHER PLATE INSTALLED ON A HINGE - NECESSARY FOR ALL TIEBACKS, LEADBOLTS, AND BELAY BRACES THAT USE HINGES**

P8		ARTICULATED PROFILE - 6 SECTIONS				
SECTION	X	HOLE #	CONNECTION	TYPE	ANGLE (IN)	PINCH PIPE
1 [12in]	DP	4-RF	HINGE	C	14	
-10° SPLICE (SLAB) - PLATES						
2 [90in]	DP	6-RF	HINGE	T	22.25	
	W	7-RF	DIRECT	C	15.625	
	W	18-RF	DIRECT	T	35.875	
	W	19-RF	DIRECT	C	19.75	
	W	27-RF	DIRECT	T	30.625	
	W	28-RF	DIRECT	C	22.875	
0° SPLICE - PLATES						
3 [90in]	W	6-RF	DIRECT	T	32.375	
	LB	8-RF	HINGE	C	24.375	
	TB	11/12-LB	3H-HINGE	TB		SF
	TB	11/12-RB	3H-HINGE	TB		SB
	LB	20-RF	HINGE	T	43.25	
	LB	21-RF	HINGE	C	26	
0° SPLICE - PLATES						
4 [45in]	LB	4-RF	HINGE	T	46.875	
	LB	5-RF	HINGE	C	29.375	
10° SPLICE (BACK TO VERT) - PLATES						
5 [90in]	LB	7-RF	HINGE	T	54.375	
	LB	8-RF	HINGE	C	29.75	
	DP	11-RF	HINGE	C	35.625	
	DP	21-RF	HINGE	T	42.25	
	LB	22-RF	HINGE	T	48.375	
	LB	23-RF	HINGE	C	25.75	
0° SPLICE - CMU BRACKET						
6 [78in]	LB	9-RF	HINGE	T	47.875	
	LB	10-RF	HINGE	C	21	
	BB	12-LF	HINGE	C	44.625	
	BB	12-RF	HINGE	C	31.25	
	LB	19-RF	HINGE	T	31.625	
	BB	23-LF	HINGE	T		SD
	BB	23-RF	HINGE	T		SA
	BB	24-LF	HINGE	T		
	BB	24-RF	HINGE	T		SA

HINGE	USE WASHER PLATE
3H-HINGE	
HINGE	NO WASHER PLATE NEEDED

P9		ARTICULATED PROFILE - 5 SECTIONS				
SECTION	X	HOLE #	CONNECTION	TYPE	ANGLE (IN)	PINCH PIPE
1 [12in]	DP	4-RF	DIRECT	C	14.875	
-12° SPLICE (SLAB) - PLATES						
2 [90in]	DP	7-RF	DIRECT	T	25.25	
	W	8-RF	DIRECT	C	16.5	
	W	18-RF	DIRECT	T	33.625	
	W	19-RF	DIRECT	C	16.75	
	W	27-RF	DIRECT	T	28.25	
	W	28-RF	DIRECT	C	17	
0° SPLICE - PLATES						
3 [90in]	W	6-RF	DIRECT	T	28.875	
	LB	7-RF	DIRECT	C	17.125	
	TB	11/12-LB	3H-HINGE	TB		SD
	TB	11/12-RB	3H-HINGE	TB		SD
	LB	19-RF	DIRECT	T	36.25	
	LB	20-RF	DIRECT	C	17.25	
0° SPLICE - PLATES						
4 [90in]	LB	5-LF	DIRECT	C	20.75	
	LB	22-LF	DIRECT	T	51.375	
	LB	23-LF	DIRECT	C	26.375	
	DP	26-LF	HINGE	C	30.375	
12° SPLICE (BACK TO VERT) - PLATES						
5 [24in]	DP	4-LF	HINGE	T	35.25	
	LB	6-LF	HINGE	T	45.625	
	LB	6-RF	HINGE	C	29.5	
0° SPLICE - CMU BRACKET						
6 [90in]	LB	13-RF	HINGE	T	39.75	
	LB	16-LF	HINGE	C	23	
	BB	19-RF	HINGE	C	29.125	
	LB	24-LF	DIRECT	T	26.75	
	BB	29-RF	HINGE	T		SA
	BB	30-RF	HINGE	T		SA



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BRACING TABLES

P10	ARTICULATED PROFILE - 6 SECTIONS					
SECTION	X	HOLE #	CONNECTION	TYPE	ANGLE (IN)	PINCH PIPE
1 [12in]	DP	4-LF	HINGE	C	13.75	
- 12° SPLICE (SLAB) - PLATES						
2 [90in]	W	6-RB	ANGLE	C	21.125	
	DP	7-LF	HINGE	T	24.875	
	W	8-LF	DIRECT	C	18.125	
	W	18-LF	DIRECT	T	28.25	
	W	19-LF	DIRECT	C	18.375	
	W	20-RB	ANGLE	T	43.75	
	W	21-RB	ANGLE	C	23.75	
	W	28-LF	DIRECT	T	26.875	
0° SPLICE - PLATES						
3 [90in]	W	5-RB	ANGLE	T	45.125	
	W	6-RB	ANGLE	C	27.625	
	LB	8-RF	DIRECT	C	17.875	
	TB	11/12-LB	3H-HINGE	TB		SD
	TB	11/12-RB	3H-HINGE	TB		SG
	LB	18-RF	DIRECT	T	33.625	
	LB	19-RF	DIRECT	C	18.125	
	W	20-RB	ANGLE	T	42.75	
	W	21-RB	ANGLE	C	29.25	
	LB	28-RF	DIRECT	T	29.125	
0° SPLICE - PLATES						
4 [90in]	LB	4-RF	HINGE	C	15.75	
	W	5-RB	ANGLE	T	48.25	
	W	6-RB	ANGLE	C	35.375	
	W	17-RB	ANGLE	T	41.75	
	W	18-RB	ANGLE	C	42.5	
	LB	22-RF	HINGE	T	53	
	LB	23-RF	HINGE	C	21	
	W	27-RB	ANGLE	T	48.125	
12° SPLICE (BACK TO VERT) - PLATES						
5 [24in]	LB	3-RF	HINGE	T	34.75	
	LB	4-RF	HINGE	C	28.625	
	W	6-RF	ANGLE	C	48.5	
0° SPLICE - CMU BRACKET						
6 [90in]	W	10-RF	ANGLE	T	58.25	
	W	11-RF	ANGLE	C	49.25	
	LB	14-RF	HINGE	T	39	
	LB	15-RF	HINGE	C	19.125	
	BB	17-RF	HINGE	C	31	
	W	21-RF	ANGLE	T	52.25	
	W	22-RF	ANGLE	C	48.625	
	LB	24-RF	HINGE	T	22.375	
	W	26-RF	ANGLE	T	48.75	
	BB	27-RF	HINGE	T		SA
	BB	28-RF	HINGE	T		SA

X - CONNECT TO WHAT	
DP	DOUBLE POINT
LB	LEAD BOLT
BB	BELAY BAR
TB	TIEBACK
W	WALL CONNECTION

P11	VERTICAL PROFILE - 2 SECTIONS					
SECTION	X	HOLE #	CONNECTION	TYPE	ANGLE (IN)	PINCH PIPE
1 [90in]	W	12-LF	ANGLE	C	21.25	
	W	12-RF	HINGE	C	14.625	
	W	21-LF	ANGLE	T	21.5	
	W	21-RF	HINGE	T	26.125	
	W	22-LF	ANGLE	C	24.75	
	W	22-RF	HINGE	C	22.75	
0° SPLICE - PLATES						
2 [45in]	W	3-LF	ANGLE	T	22	
	W	3-RF	HINGE	T	30.875	
	W	4-LF	ANGLE	C	14.875	
	W	4-RF	HINGE	C	39.125	
	W	14-LF	ANGLE	T	23.875	
	W	15-RF	HINGE	T	21.25	
	TB	14/15-LB	3H-HINGE	TB		SE
	TB	14/15-RB	3H-HINGE	TB		SE

P13	ARTICULATED PROFILE - 3 SECTIONS					
SECTION	X	HOLE #	CONNECTION	TYPE	ANGLE (IN)	PINCH PIPE
1 [12in]						
10° SPLICE (OVERHANG) - PLATES						
2 [90in]	W	5-LF	DIRECT	C	21.125	
	W	5-RF	HINGE	C	16.125	
	W	14-LF	DIRECT	T	25.5	
	W	14-RF	HINGE	T	30.875	
	W	15-LF	DIRECT	C	25	
	W	15-RF	HINGE	C	14.75	
	W	21-LF	DIRECT	T	27.125	
	W	21-RF	HINGE	T	22.125	
	W	22-LF	DIRECT	C	30.625	
	W	22-RF	HINGE	C	17.25	
0° SPLICE - PLATES						
3 [42in]	W	3-LF	DIRECT	T	29.5	
	W	3-RF	HINGE	T	24.125	
	W	4-LF	DIRECT	C	34.875	
	W	4-RF	HINGE	C	25.75	
	TB	11/12-LB	3H-HINGE	TB		SH
	TB	11/12-RB	3H-HINGE	TB		SI
	W	14-LF	DIRECT	T	25.25	
	W	14-RF	HINGE	T	12	

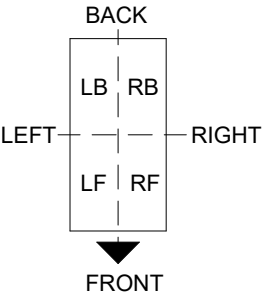
P12	ARTICULATED PROFILE - 3 SECTIONS					
SECTION	X	HOLE #	CONNECTION	TYPE	ANGLE (IN)	PINCH PIPE
1 [12in]						
10° SPLICE (OVERHANG) - PLATES						
2 [90in]	W	5-LF	DIRECT	C	24.25	
	W	14-LF	DIRECT	T	23.375	
	W	15-LF	DIRECT	C	24.625	
	W	21-LF	DIRECT	T	26.375	
	W	22-LF	DIRECT	C	29.75	
0° SPLICE - PLATES						
3 [42in]	W	3-LF	DIRECT	T	33.5	
	W	4-LF	DIRECT	C	37	
	TB	11/12-LB	3H-HINGE	TB		SH
	TB	11/12-RB	3H-HINGE	TB		SH
	W	14-LF	DIRECT	T	26.5	

P14	VERTICAL PROFILE - 2 SECTIONS					
SECTION	X	HOLE #	CONNECTION	TYPE	ANGLE (IN)	PINCH PIPE
1 [90in]	W	4-RF	ANGLE	C	16.5	
	W	19-RF	ANGLE	T	43.5	
	W	20-RF	ANGLE	C	16.25	
	W	27-RF	ANGLE	T	23.875	
	W	28-RF	ANGLE	C	16.25	
0° SPLICE - CMU BRACKET						
2 [45in]	W	5-RF	ANGLE	T	24.125	
	W	6-RF	ANGLE	C	25.125	
	W	15-RF	ANGLE	T	17.25	

ITEM	QTY
BELAY BAR	12
LEAD BOLT	97
ANGLE - 3 HOLE	160
ANGLE - 4 HOLE	38
HINGE - 3 HOLE	237
HINGE - 4 HOLE	177
L 2x2x1/8	880 ft
L 3x3x3/16	100 ft

Backups	
PIPE	QTY
SA	2
SB	9
SC	40
SD	34
SE	38
SF	25
SG	10
SH	0
SI	0
SJ	0
SK	0
SL	0

For Belays and Tiebacks	
PIPE	QTY
SA	13
SB	6
SC	5
SD	11
SE	5
SF	2
SG	11
SH	7
SI	1
SJ	0
SK	0
SL	0



1699 Cherry St. Unit B
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720-664-9354

DATE: 5/16/2025

AUTHOR: CTB

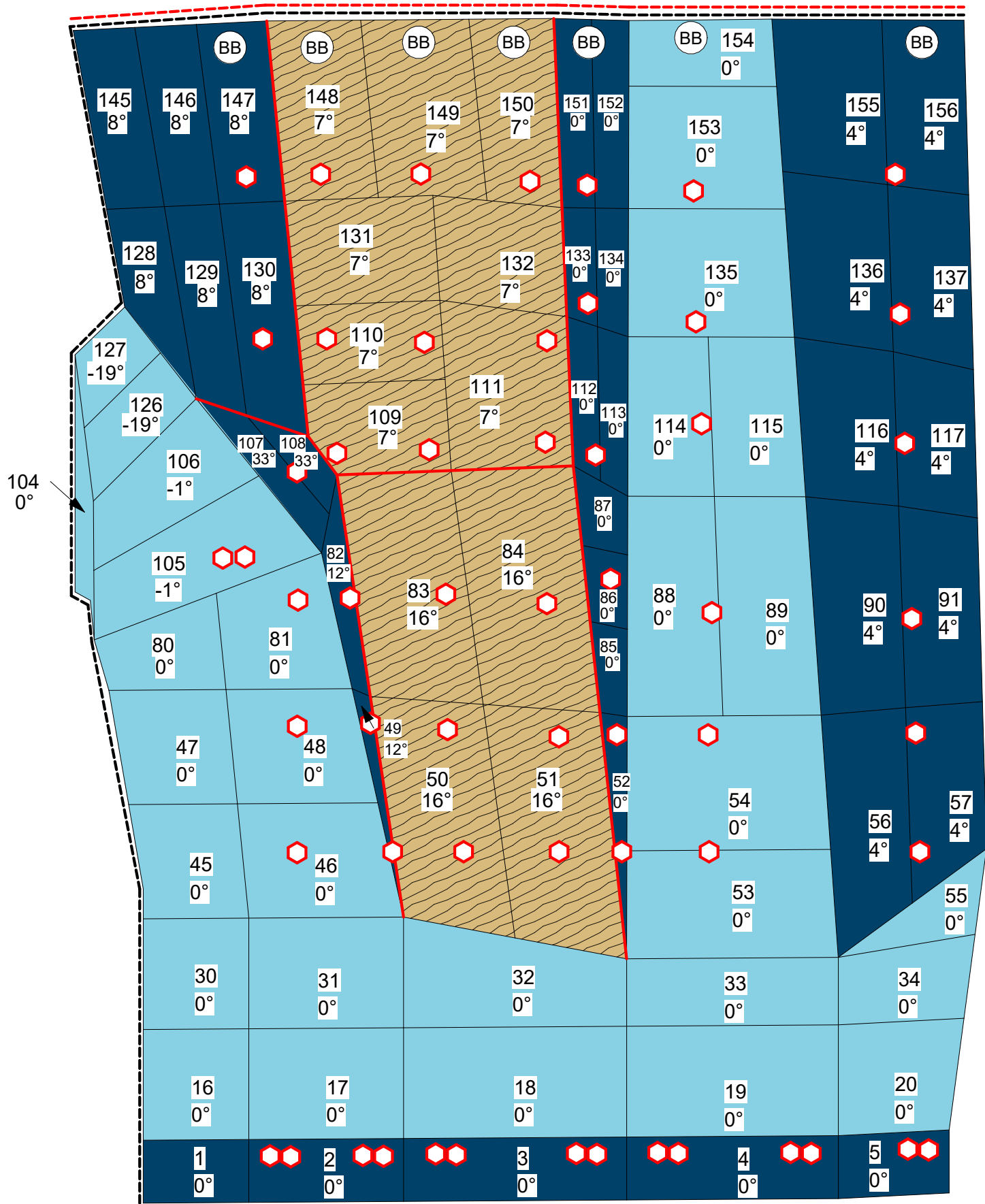
REVISIONS
NUMBER DATE

EB1416

GRAND JUNCTION REC
CENTER - PANELIZED

2836 RECREATION
WAY, GRAND
JUNCTION, CO 81506

BRACING TABLES



PartNo	Description	QTY	Units	Packable
EB1416-Shapes	# of Shapes to CNC	163	Each	Yes
WOD-PLY11-48X96-0.75	# of Plywood (11 Layer) Sheets	TBD	Sheets	No
PWS-2.0-C06	Grab Rail	66	ft	Yes
BaseShapes	# of Base Shapes	15	Each	Yes
CUS-PWS-R001	Rub Rail	151	ft	Yes
HATCH	# of Access Doors	1	Each	Yes
PWS-2.0-C07	Belay Bar Blocks	12	Each	Yes
PWS-2.0-C19	Access Hatch Flange	2	Each	No
LSL-2x4	LSL - Nominal 2x4	48	ft	Yes

- R:136,G:209,B:229
635SF
- R:0,G:65,B:106
515SF
- NATURAL
771SF
- RUB RAIL
- 3/8" ROUTED EDGES
- GRAB RAIL
- BB

BELAY BAR
- DOUBLE POINT
- LEAD BOLT

1699 Cherry St. Unit B
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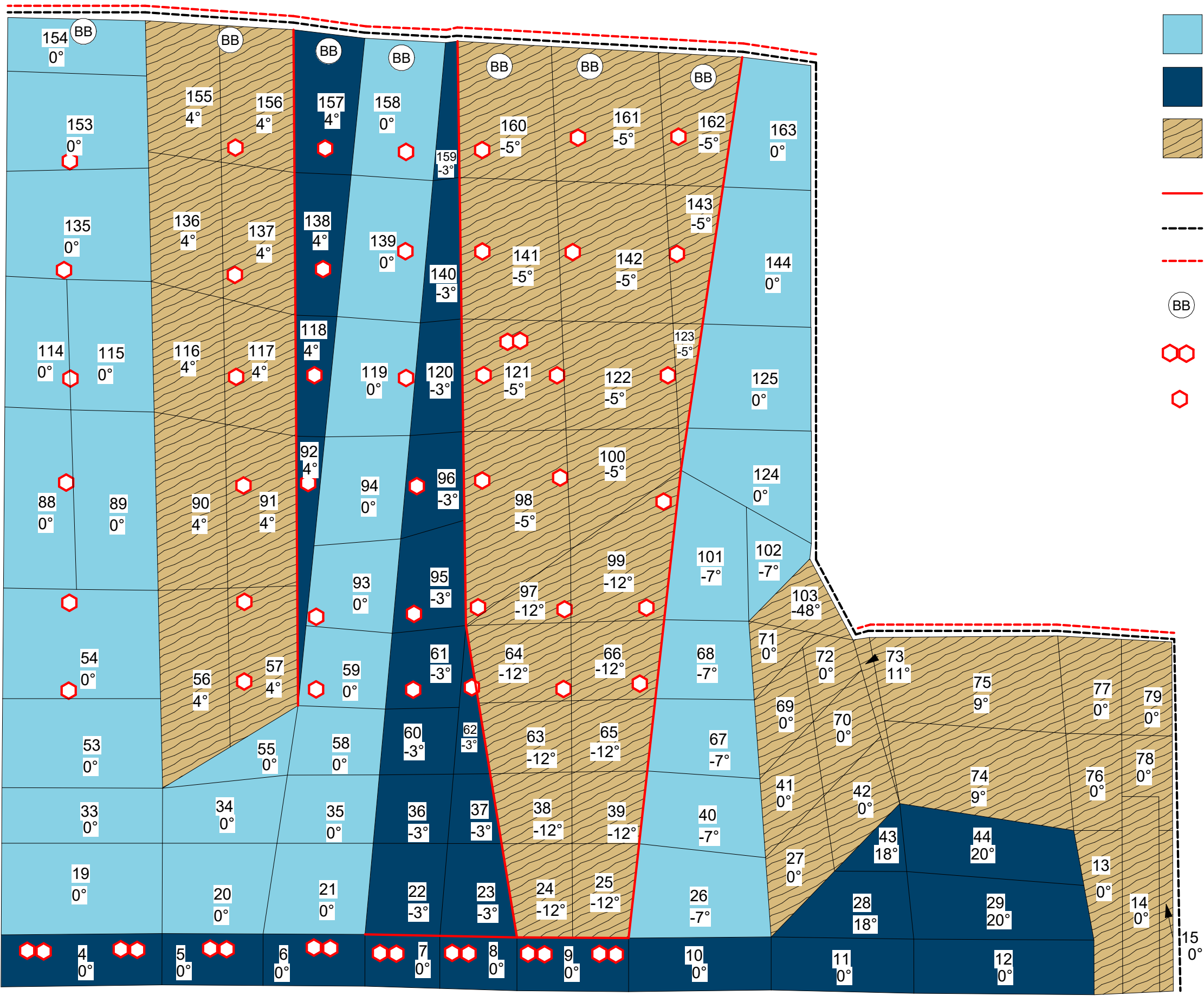
AUTHOR: CTB

REVISIONS
NUMBER DATE

EB1416
GRAND JUNCTION REC
CENTER - PANELIZED

2836 RECREATION
WAY, GRAND
JUNCTION, CO 81506

SHAPE LAYOUT



-  R:136,G:209,B:229
635SF
-  R:0,G:65,B:106
515SF
-  NATURAL
771SF
-  RUB RAIL
-  3/8" ROUTED EDGES
-  GRAB RAIL
-  BELAY BAR
-  DOUBLE POINT
-  LEAD BOLT



ELDORADO
CLIMBING

1699 Cherry St. Unit B
Louisville, CO 90027
720-664-9354

DATE: 5/16/2025

AUTHOR: CTB

REVISIONS

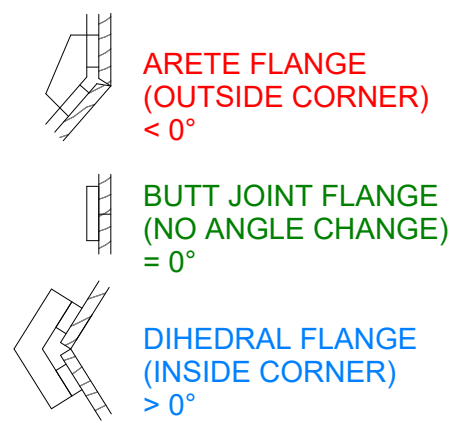
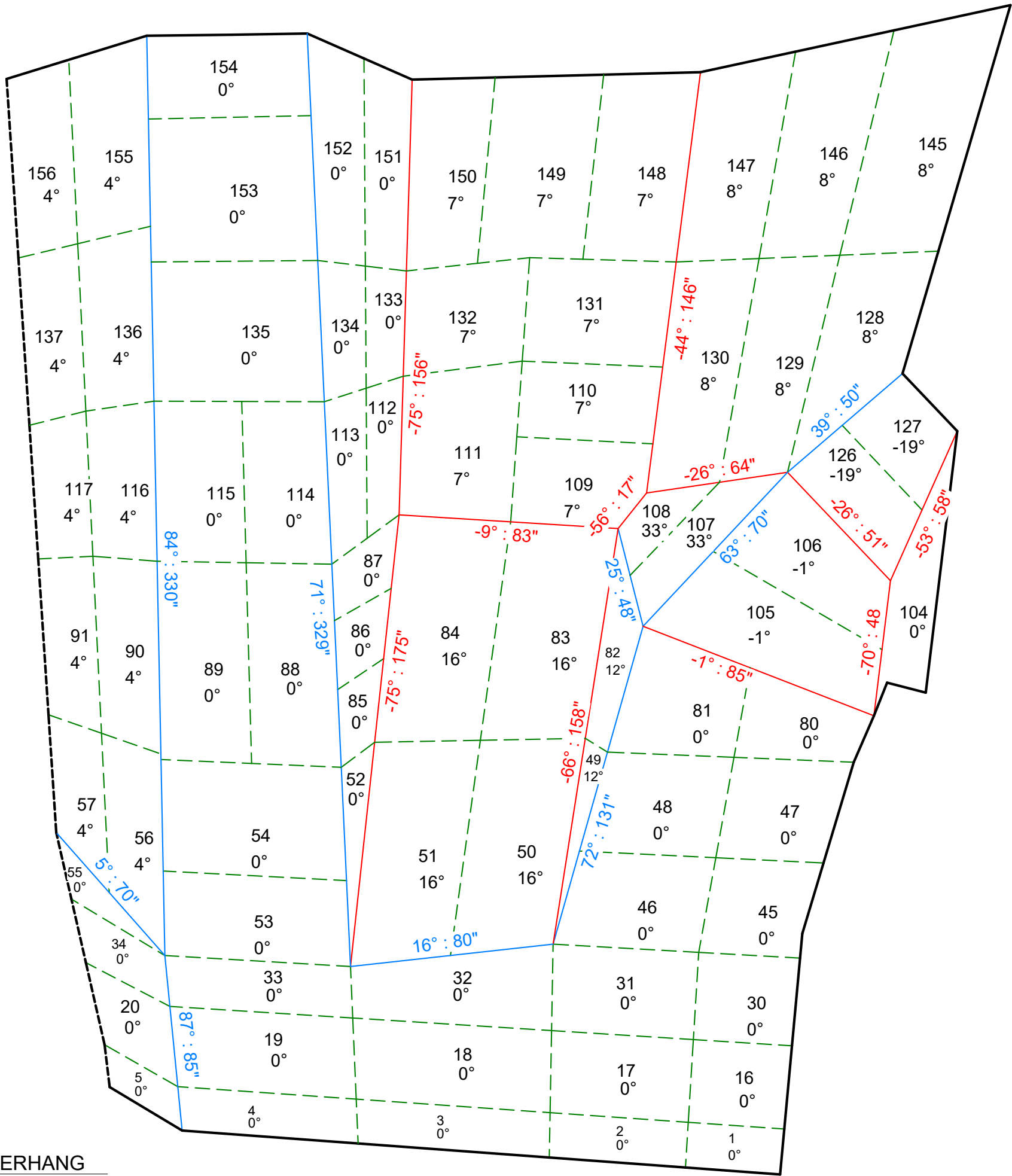
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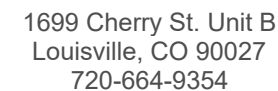
GRAND JUNCTION REC
CENTER - PANELIZED

2836 RECREATION
WAY, GRAND
JUNCTION, CO 81506

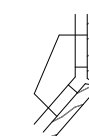
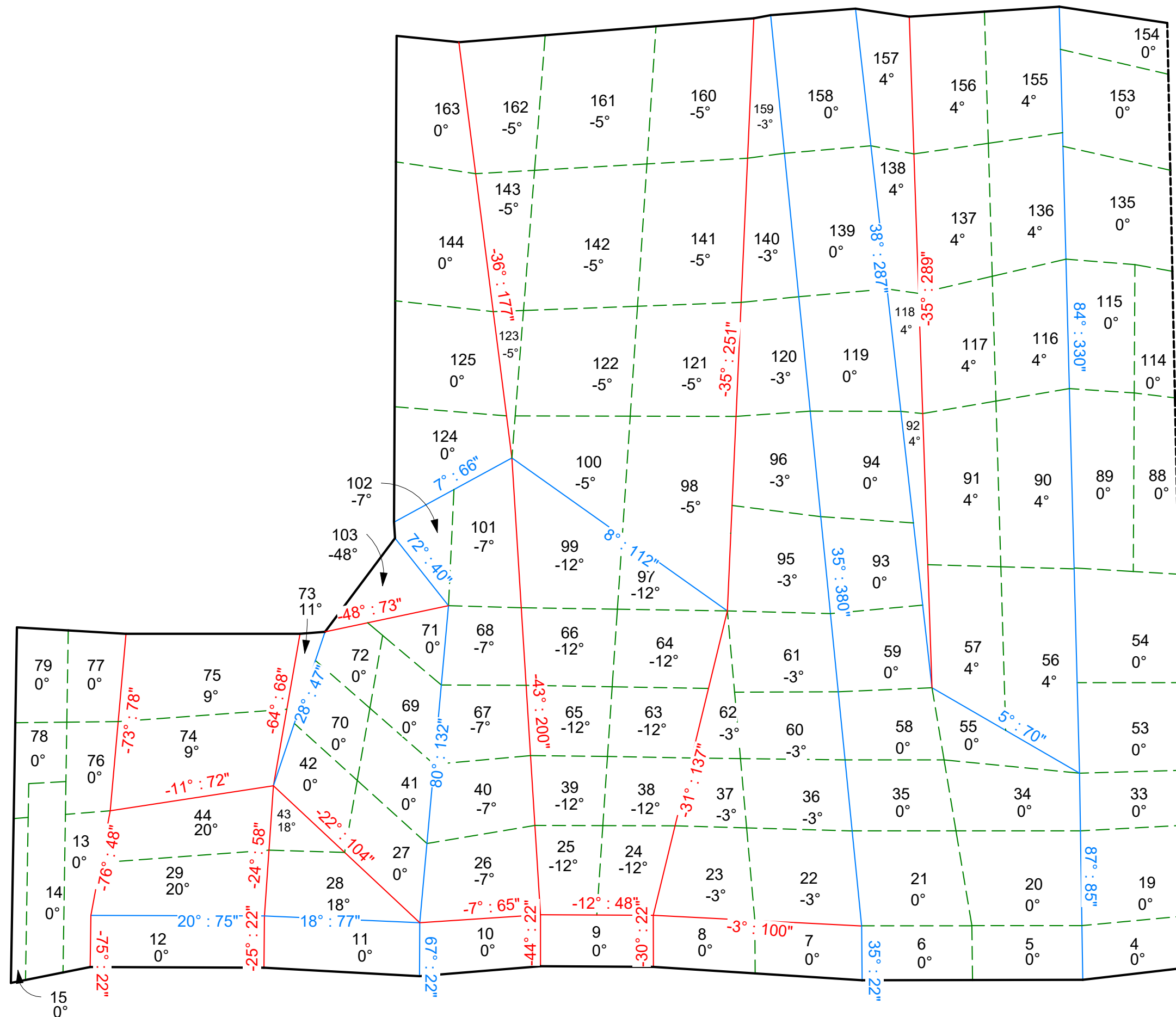
SHAPE LAYOUT



 1699 Cherry St. Unit B Louisville, CO 90027 720-664-9354
DATE: 5/16/2025
AUTHOR: CTB
REVISIONS NUMBER DATE
EB1416
GRAND JUNCTION REC CENTER - PANELIZED
2836 RECREATION WAY, GRAND JUNCTION, CO 81506
FLANGE LAYOUT
6.0



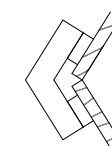
6.1



ARETE FLANGE
(OUTSIDE CORNER)
 $< 0^\circ$



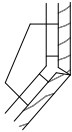
BUTT JOINT FLANGE
(NO ANGLE CHANGE)
 $= 0^\circ$



DIHEDRAL FLANGE
(INSIDE CORNER)
 $> 0^\circ$

PartNo	Description	Sheets to Cut	Material ID	Material Name	Thickness	CNC Time (per Sheet)	CNC Time (Total)
PWS-2.0-CNC-ADV-01-3.5x7	Butt Joints for CNC - 3.5in Wide x 7in Long	8	WOD-ADV-48X96-0.75	AdvanTech	0.72	17	136
PWS-2.0-CNC-ADV-02	Belay Bar Blocking for CNC - Indoor	1	WOD-ADV-48X96-0.75	AdvanTech	0.72	14	14
PWS-2.0-CNC-ADV-03	Grab Rail and Trim for CNC - Indoor	7	WOD-ADV-48X96-0.75	AdvanTech	0.72	24	168
PWS-2.0-CNC-ADV-05	Access Hatch Flanges for CNC - Indoor	1	WOD-ADV-48X96-0.75	AdvanTech	0.72	28	28
PWS-2.0-CNC-PLY-02	Flange Wings for CNC - Indoor	7	WOD-PLY13-48X96-0.75	Plywood (13 Layer) - BB/CP	0.72	51	357
PWS-2.0-CNC-PLY-04	Flange Gussets for CNC - Indoor	8	WOD-PLY13-48X96-0.75	Plywood (13 Layer) - BB/CP	0.72	115	920
Totals		32 sheets					28 hours

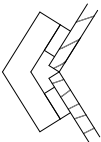
Angle Type	Angle Change	Length	Full Brackets (93in)	Partial Bracket Length	Gussets	Wings
Arete	-76	48	0	48	10	
Arete	-75	353	3	74	70	
Arete	-73	78	0	78	16	
Arete	-70	48	0	48	10	
Arete	-66	158	1	65	32	
Arete	-64	68	0	68	14	
Arete	-56	17	0	17	4	
Arete	-53	58	0	58	12	
Arete	-48	73	0	73	16	
Arete	-44	168	1	75	34	
Arete	-43	200	2	14	40	
Arete	-36	177	1	84	36	
Arete	-35	540	5	75	106	
Arete	-31	137	1	44	28	
Arete	-30	22	0	22	6	
Arete	-26	115	1	22	24	
Arete	-25	22	0	22	6	
Arete	-24	58	0	58	12	
Arete	-22	104	1	11	22	
Arete	-12	48	0	48	10	
Arete	-11	72	0	72	14	
Arete	-9	83	0	83	18	
Arete	-7	65	0	65	14	
Arete	-3	100	1	7	20	
Arete	-1	85	0	85	18	
Butt Joint	0	7651	1093 island blocks			
Dihedral	5	70	0	70	14	
Dihedral	7	66	0	66	14	
Dihedral	8	112	1	19	22	
Dihedral	16	80	0	80	16	
Dihedral	18	77	0	77	16	
Dihedral	20	75	0	75	16	
Dihedral	25	48	0	48	10	
Dihedral	28	74	0	74	16	
Dihedral	35	402	4	30	78	
Dihedral	38	287	3	8	56	
Dihedral	39	50	0	50	10	
Dihedral	63	70	0	70	14	
Dihedral	67	22	0	22	6	
Dihedral	71	329	3	50	64	
Dihedral	72	171	1	78	34	
Dihedral	80	132	1	39	26	
Dihedral	84	330	3	51	64	
Dihedral	87	85	0	85	18	
Totals		1086 ft	33 full brackets	43 partial brackets	1086 gusset: 118 wings	



ARETE FLANGE
(OUTSIDE CORNER)
< 0°



BUTT JOINT FLANGE
(NO ANGLE CHANGE)
= 0°



DIHEDRAL FLANGE
(INSIDE CORNER)
> 0°



1699 Cherry St. Unit B
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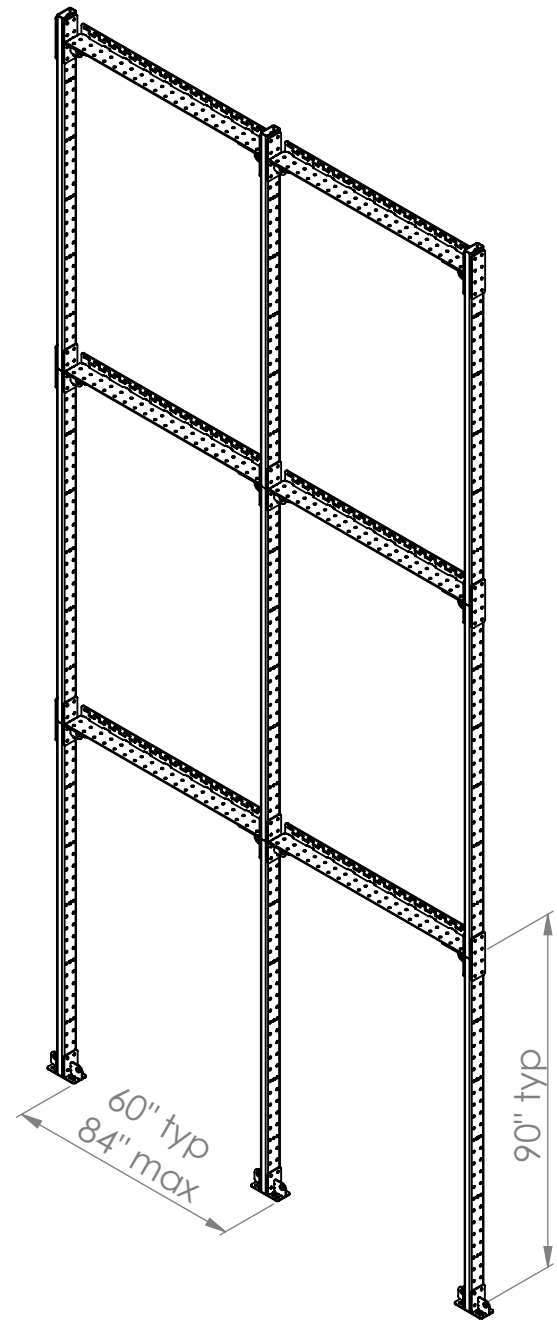
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NUMBER DATE

EB1416

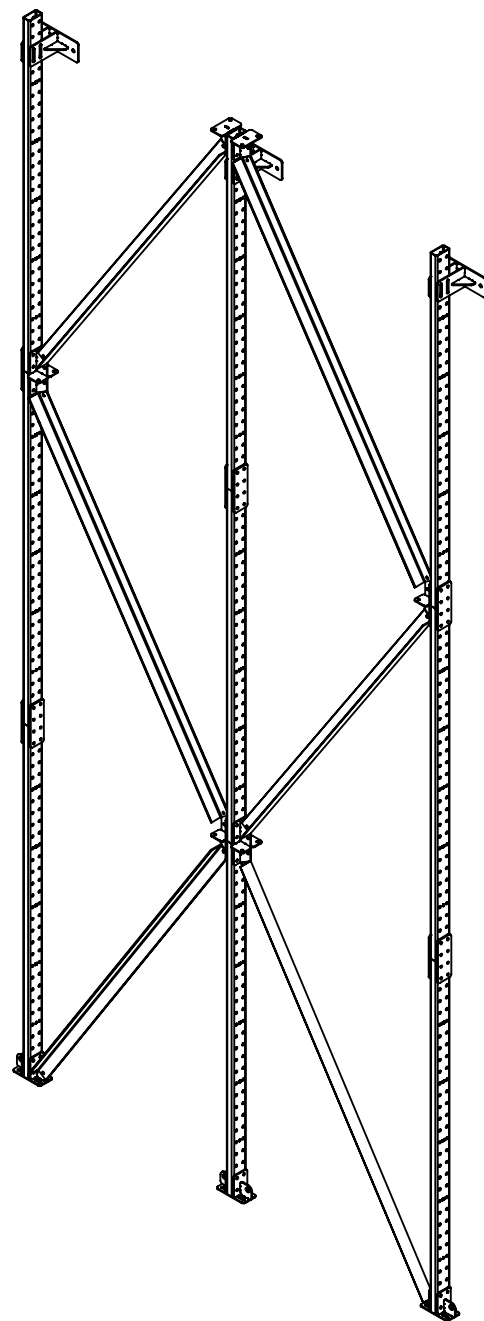
GRAND JUNCTION REC
CENTER - PANELIZED

2836 RECREATION
WAY, GRAND
JUNCTION, CO 81506

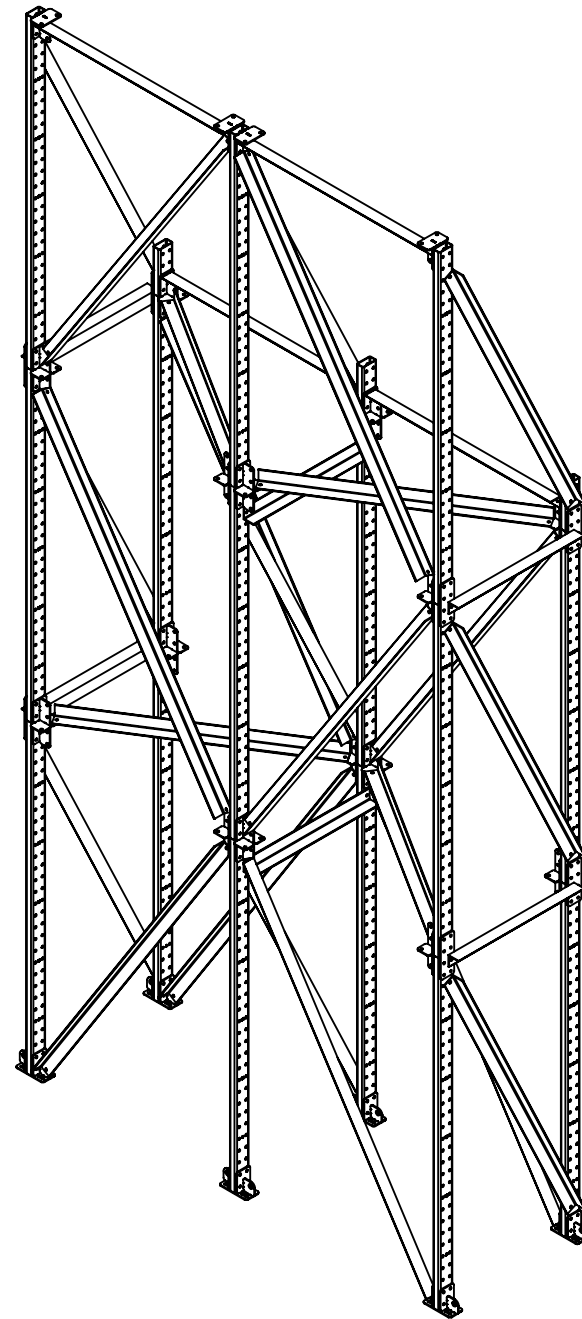
FLANGE SUMMARY



Case 1
Slab and Wall Attachments



Case 2
Slab and Ceiling (or Beam) Attachments

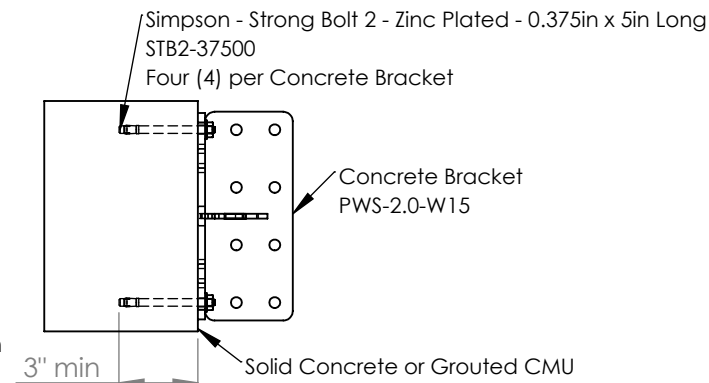
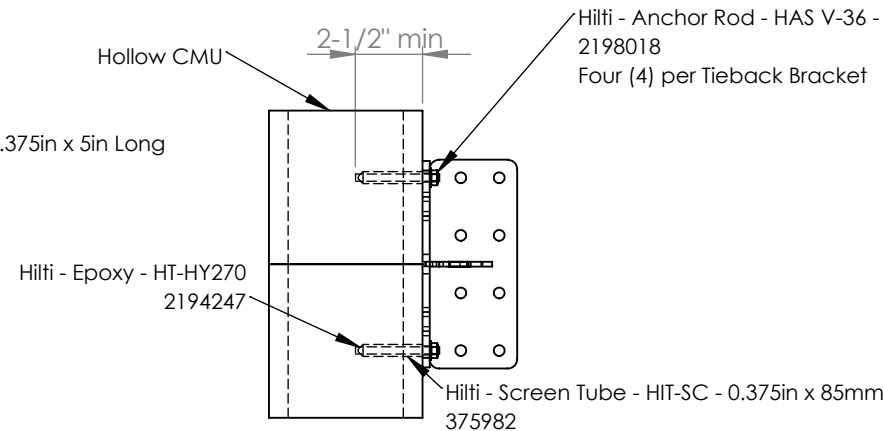
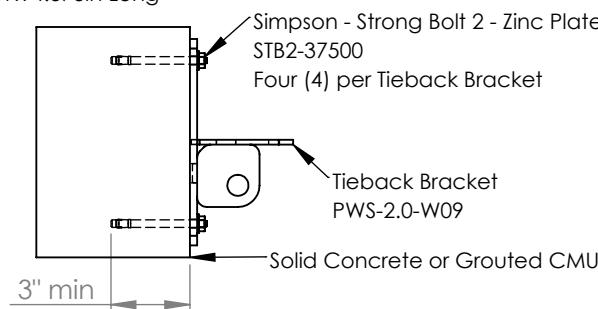
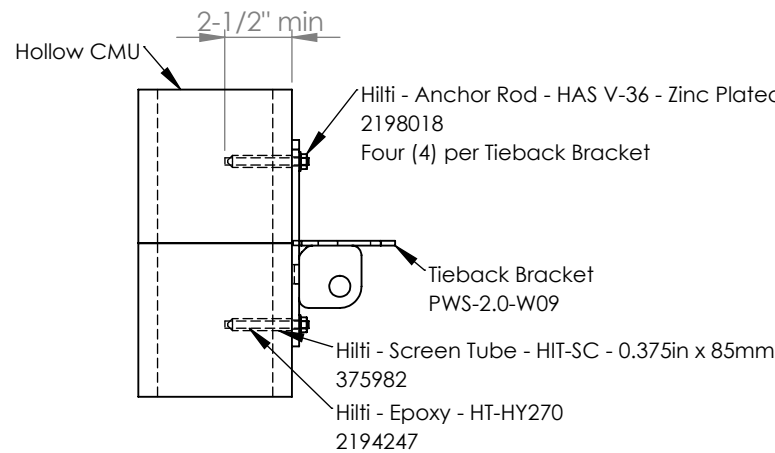
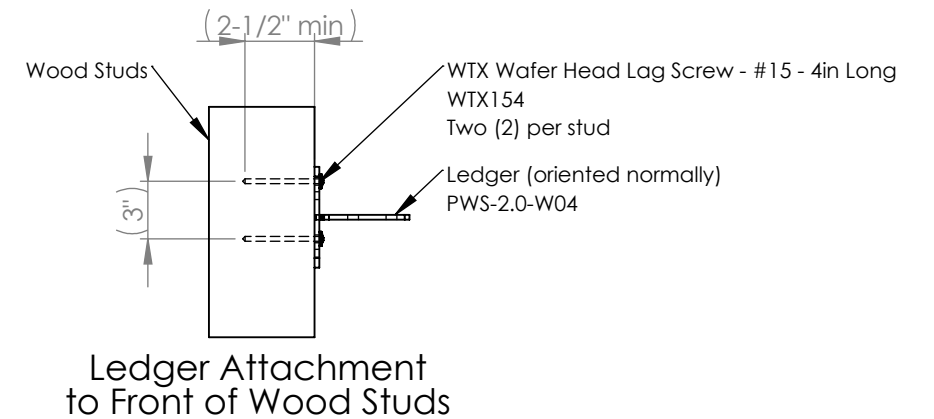
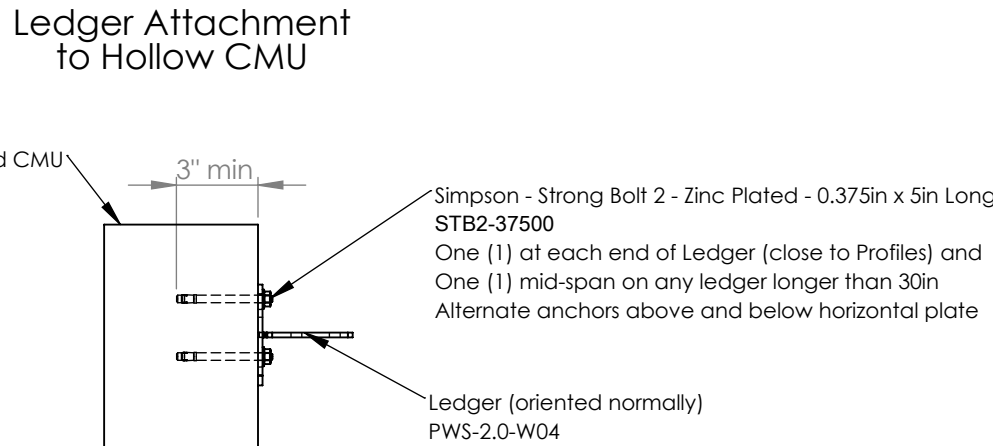
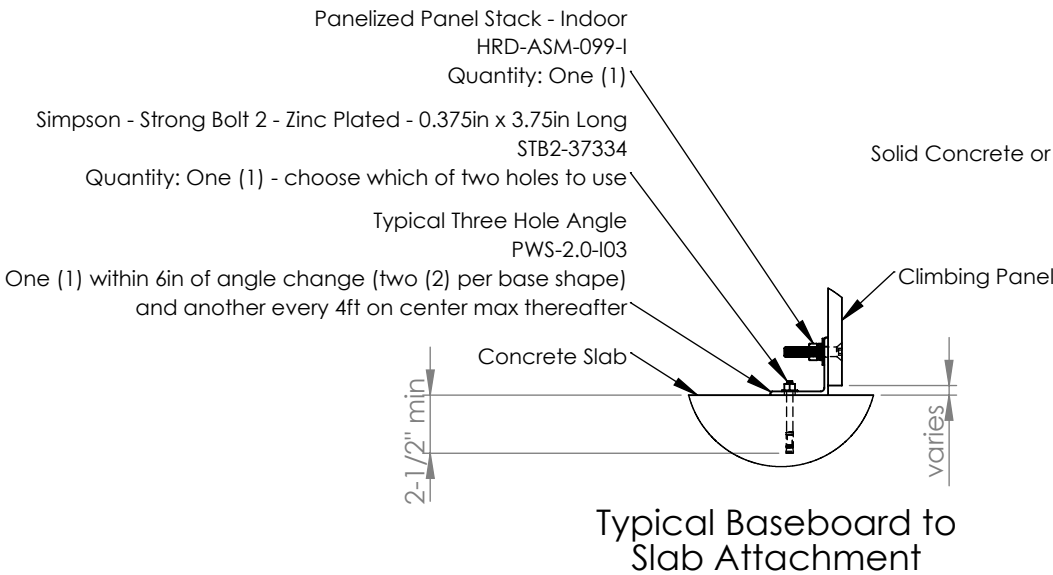
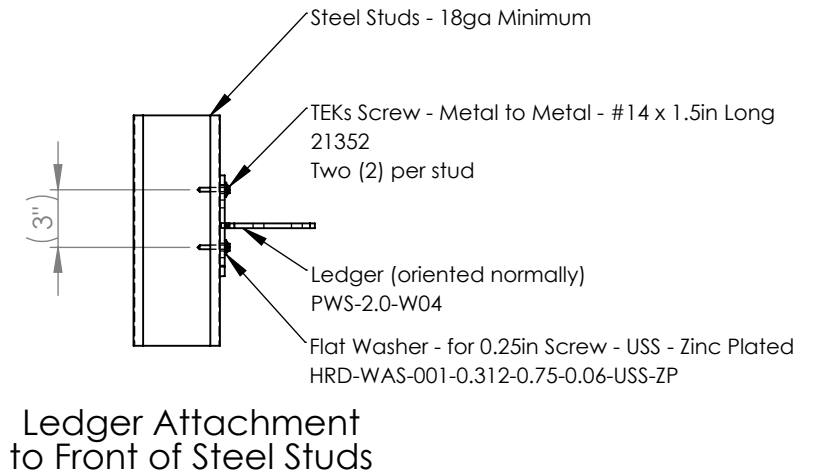
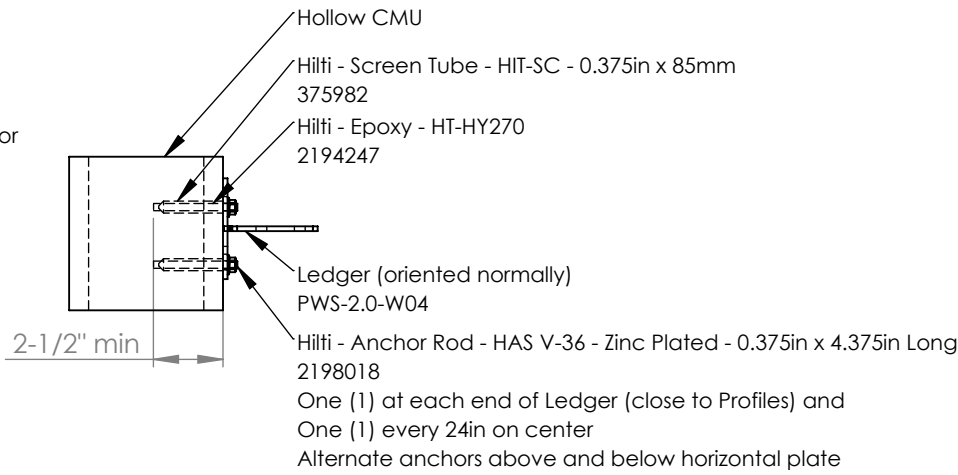
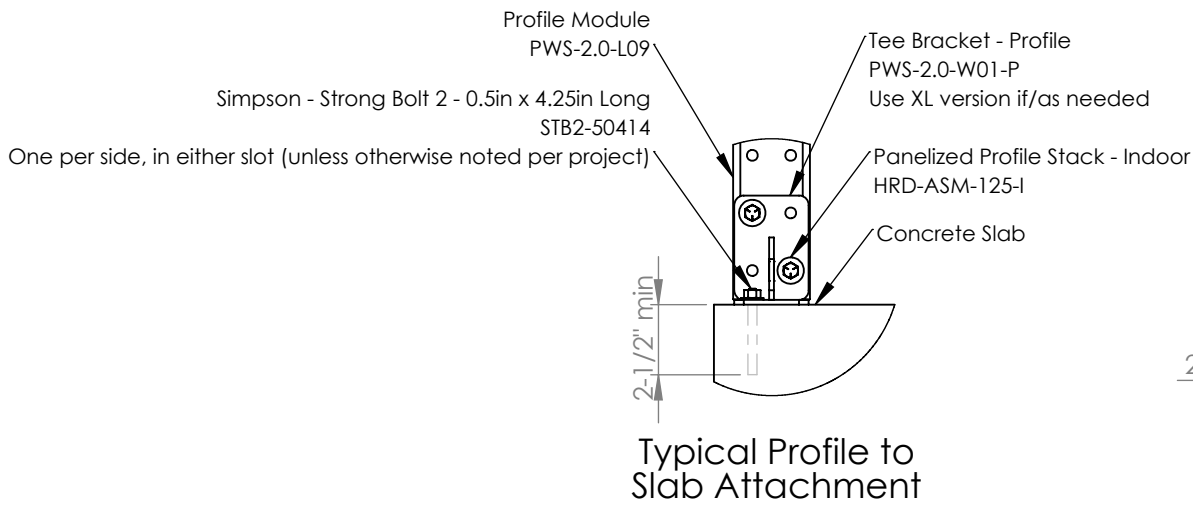


Case 3
Slab Attachments Only

Typical Details - Table of Contents	
Sheet	Description
0.01	Visual Overview
0.02	Building Connections
0.03	Steel Joints
0.04	Articulated Profiles
0.05	Climbing Wall Details
0.06	Sub Assemblies
0.07	Ironworked Parts
0.08	Weldments 1
0.09	Weldments 2
0.10	Hardware Stacks
0.11	Parts to CNC
0.12	Tie Off Points
0.13	Bracing Members 1
0.14	Bracing Members 2

Notes:
1. The three basic structure types are shown above for clarity. Actual steel configurations vary per project, and are detailed in those project-specific install sets.

Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5		FINISH:		Deburr and break sharp edges (if applicable)		DO NOT SCALE DRAWING		REVISION	
NAME		SIGNATURE		DATE		TITLE:		Panelized 2.0 Typicals - Visual Overview	
DRAWN						DWG NO.		P2-0.01	
CHK'D								B	
APPV'D									
MFG									
Q.A						MATERIAL:			
						WEIGHT:		SCALE: 1:40	
								SHEET 1 OF 19	

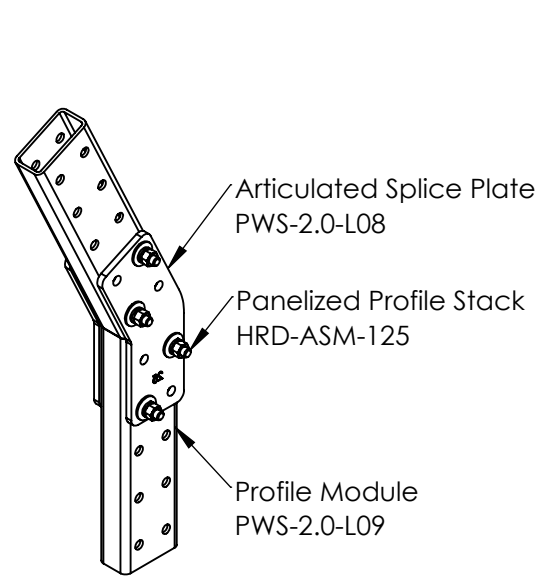


Notes:

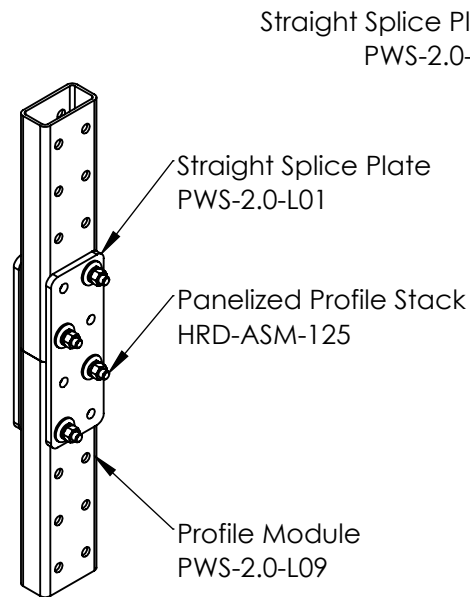
1. It is permissible to install ledgers or brackets atop wall cladding (e.g. drywall, plywood, etc.), so long as the appropriate embedment (into whichever wall type) is maintained (as defined by the manufacturer of each fastener and the structural engineer stamping these plans).

2. Wedge anchors (or any other fastener) may change per project if/when required by engineering. For example each Strong Bolt 2 may be replaced with a KB TZ2 of equivalent diameter and length for high seismic areas. Additionally, any Zinc Plated Simpson Strong Bolt 2 may be replaced with a Zinc Plated Hilti KB1 of equivalent diameter and length.

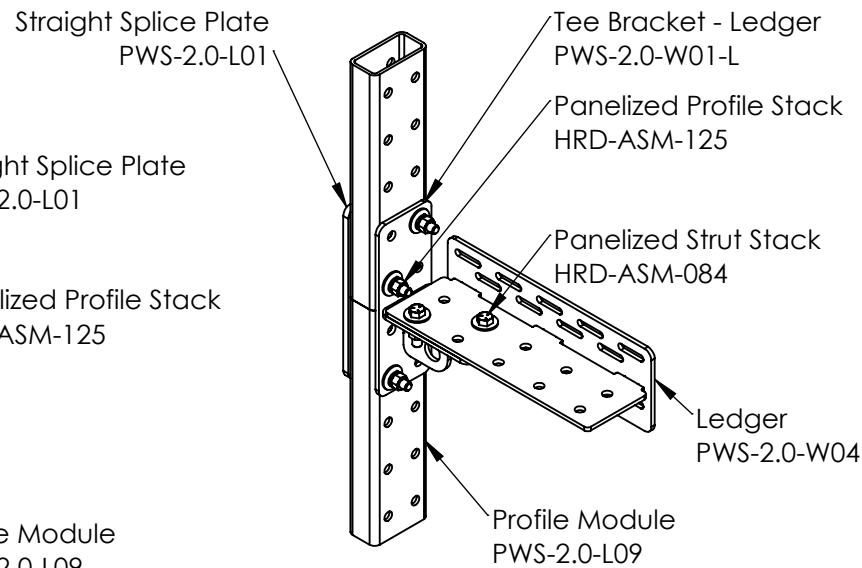
Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: None			Deburr and break sharp edges (if applicable)	DO NOT SCALE DRAWING		REVISION			
	NAME	SIGNATURE	DATE				TITLE: Panelized 2.0 Typicals - Building Connections - Indoor					
DRAWN	Mark Hemphill		4/12/2023									
CHK'D												
APPV'D												
MFG												
Q.A												
						MATERIAL:	DWG NO. P2-0.02-I					B
						WEIGHT: 221.632622	SCALE: 1:5		SHEET 2 OF 19			



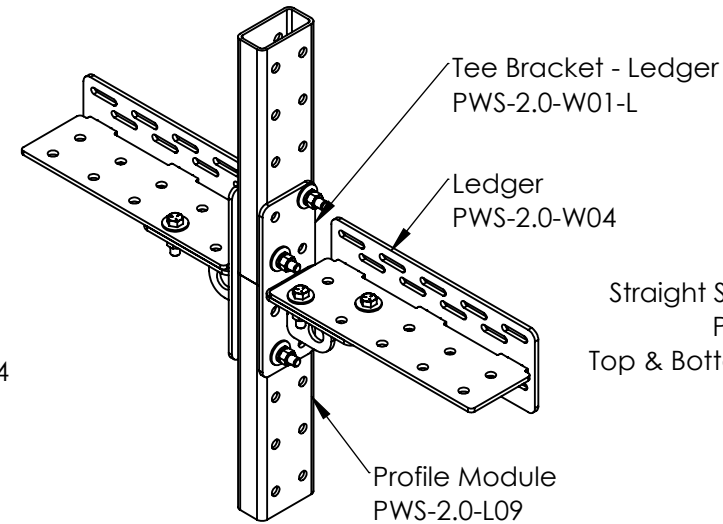
Articulated Profile Splice



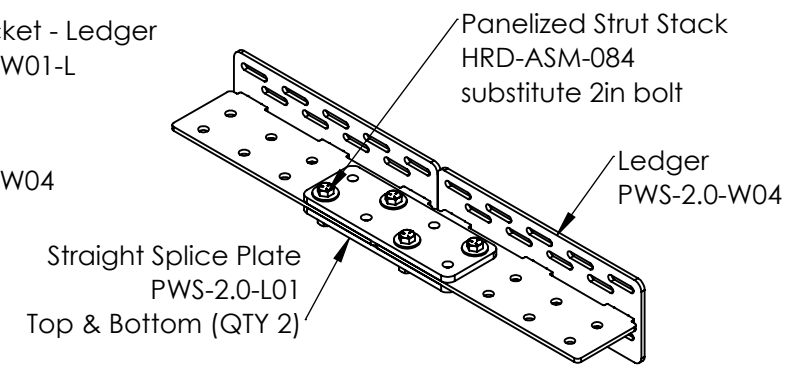
Straight Profile Splice



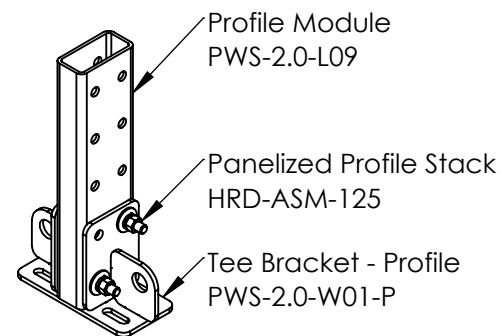
Tee Connection
(Profiles & Ledgers)



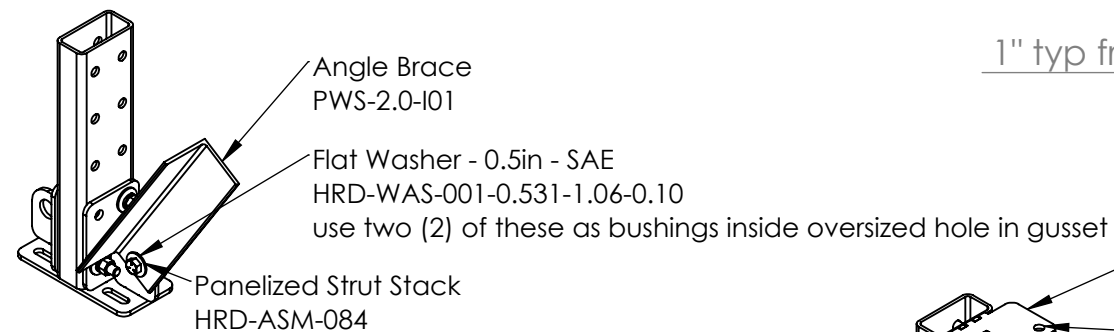
Cross Connection
(Profiles & Ledgers)



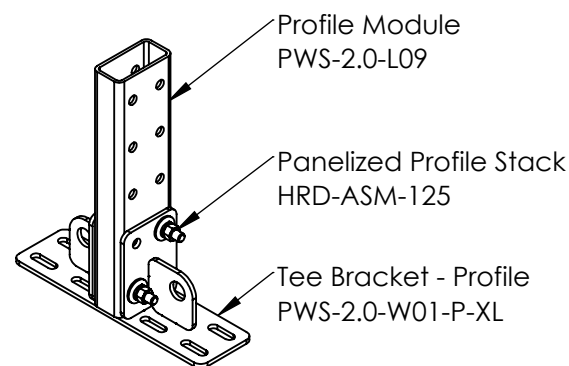
Straight Ledger Splice



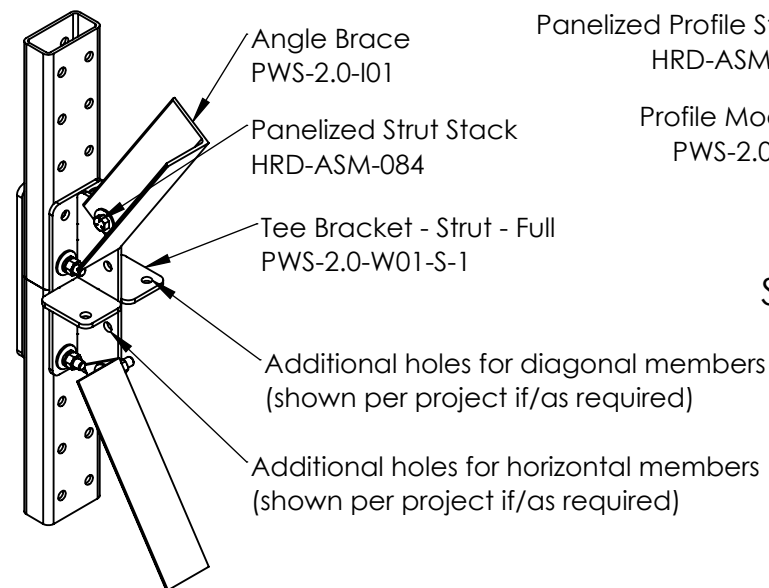
Profile to Tee Bracket



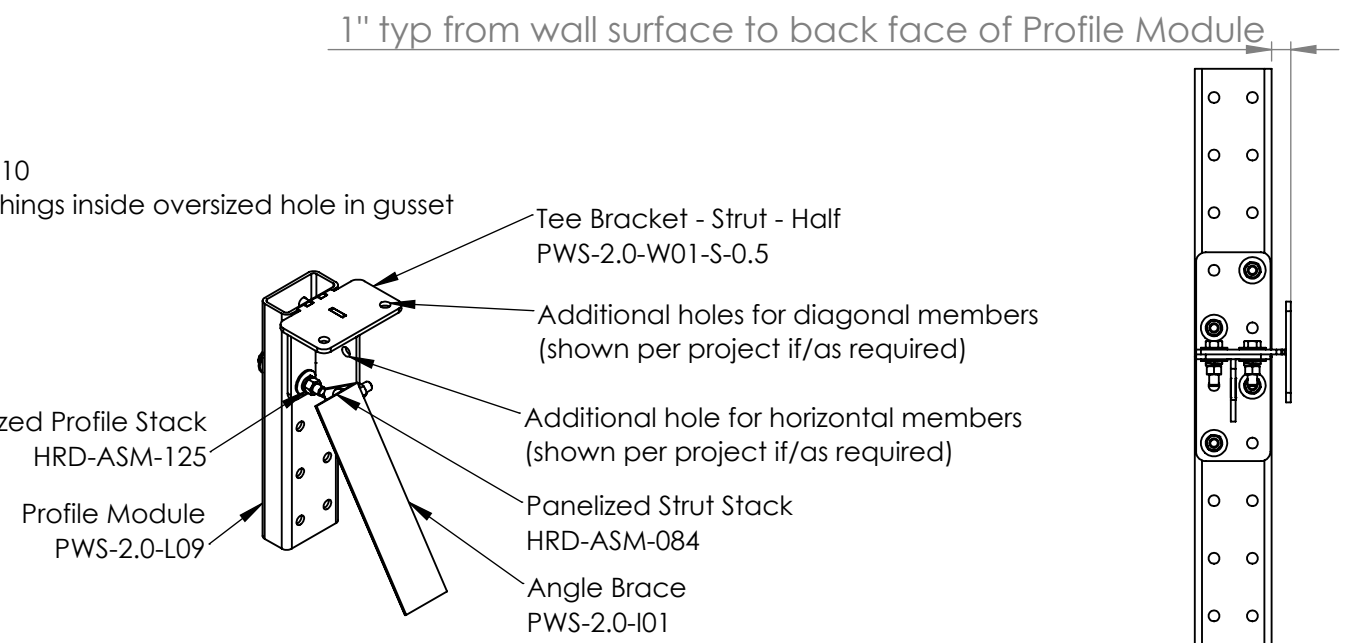
Strut Connection - Base



Profile to Tee Bracket - XL
(use if/when necessary to
avoid rebar or cable(s) in slab)



Strut Connection - Mid Height



Tee or Cross Connection
(Profiles & Ledgers)
Side View

Notes:
1. All joints above are shown with two (2) bolts per inbound member. This is typical. However, certain joints or joint types (e.g. articulated profile splices) may need four (4) bolts per member, if/as specified in the project-specific engineering. Also, bolts are shown intentionally staggered - install as shown above.

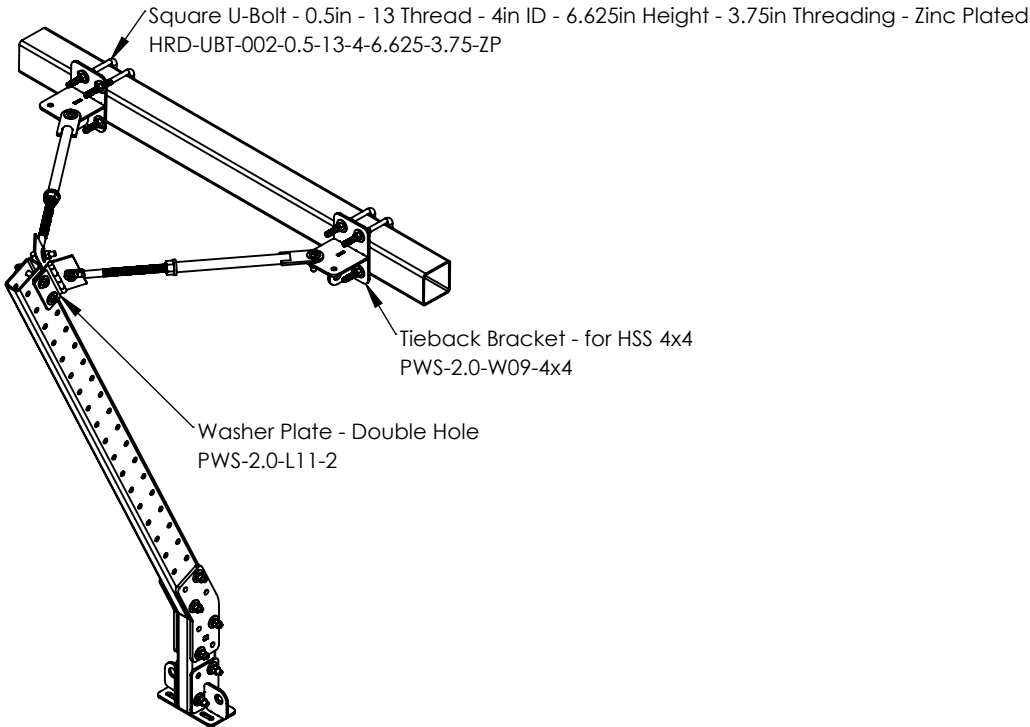
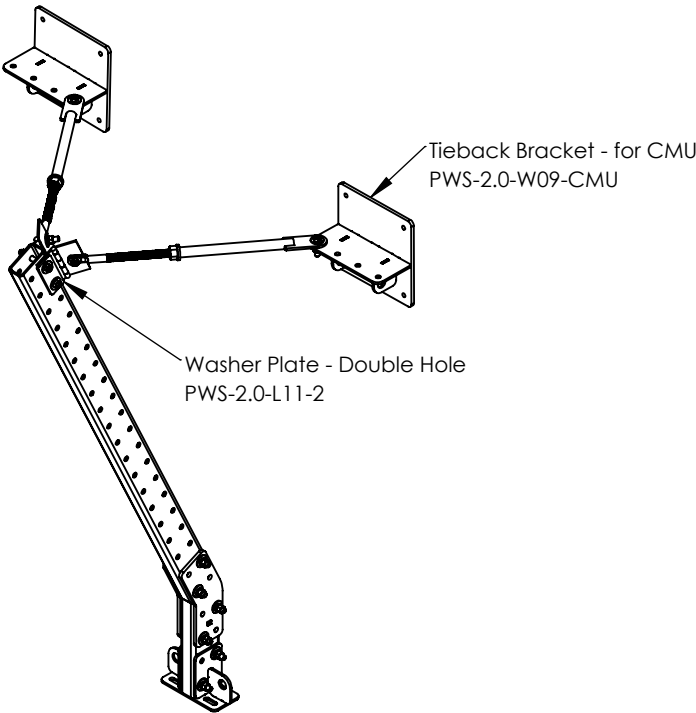
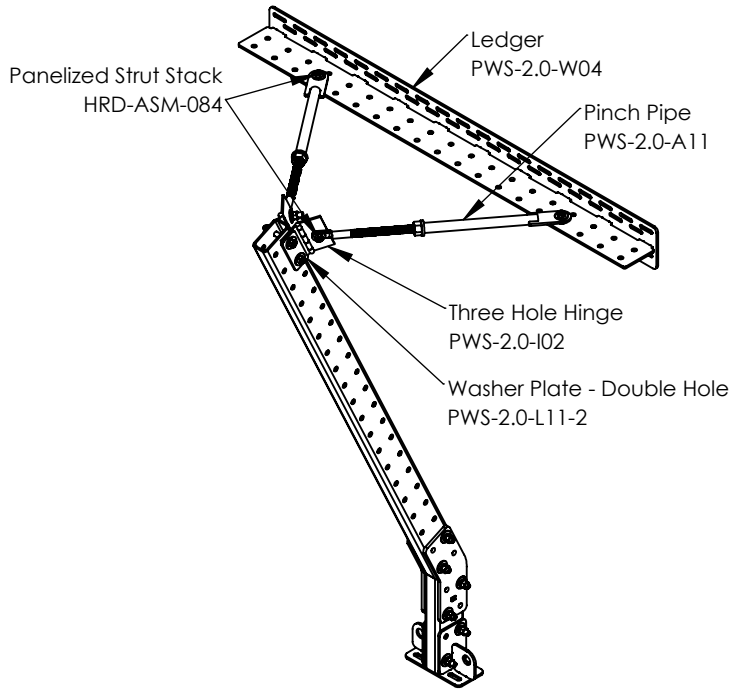
Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5				FINISH:				Deburr and break sharp edges (if applicable)				DO NOT SCALE DRAWING				REVISION			
TITLE:																			
Panelized 2.0 Typical - Steel Joints																			
DWG NO.												P2-0.03				B			
SCALE: 1:10																SHEET 4 OF 19			

to Ledger (PWS-2.0-W04)

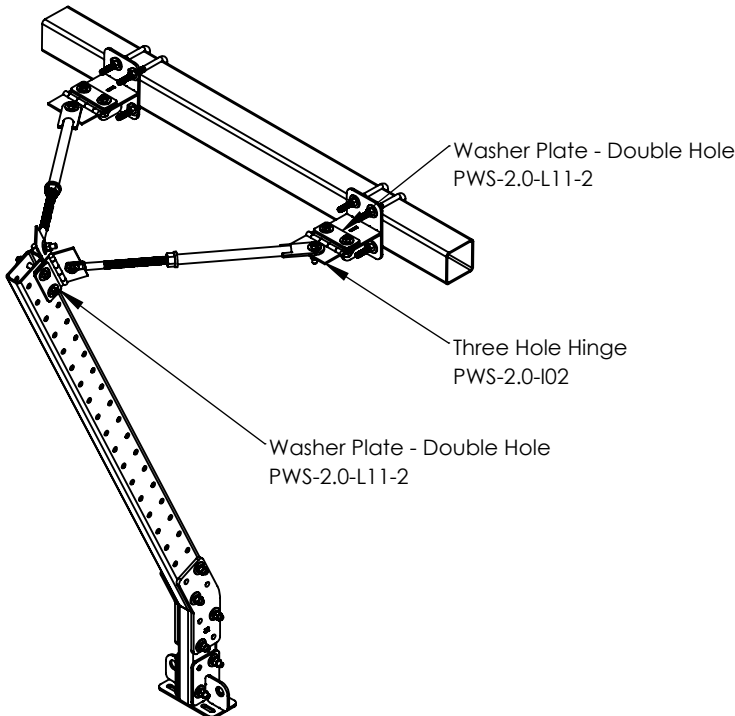
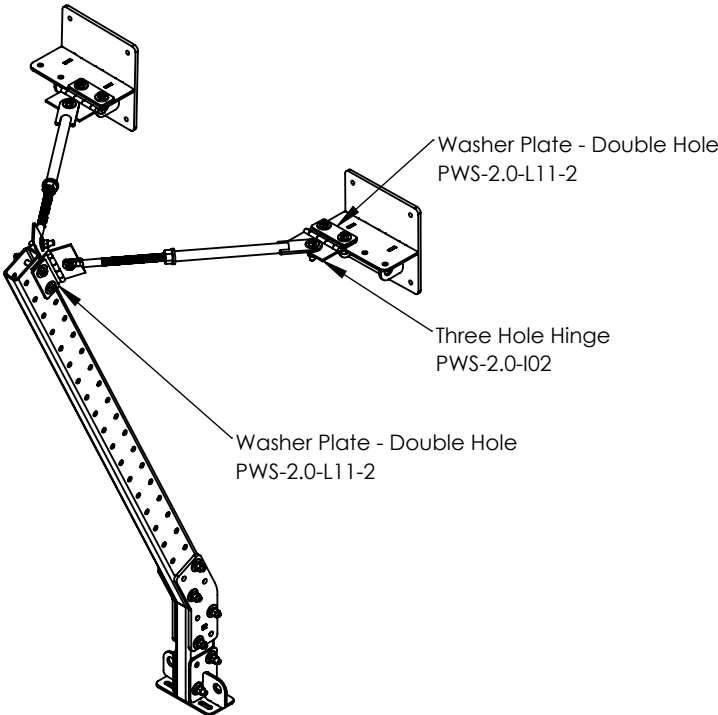
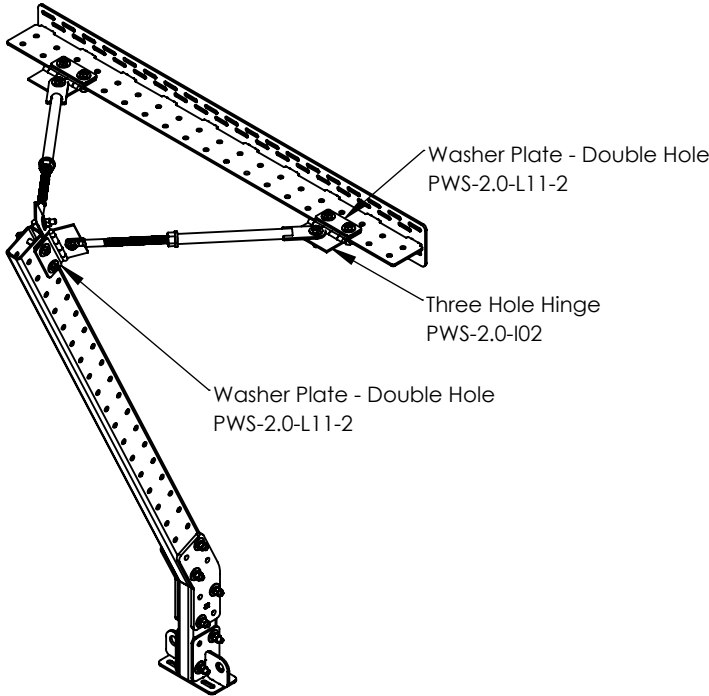
to Tie Back Bracket - for CMU (PWS-2.0-W09-CMU)

to Tie Back Bracket - for HSS 4x4 (PWS-2.0-W09-4x4)

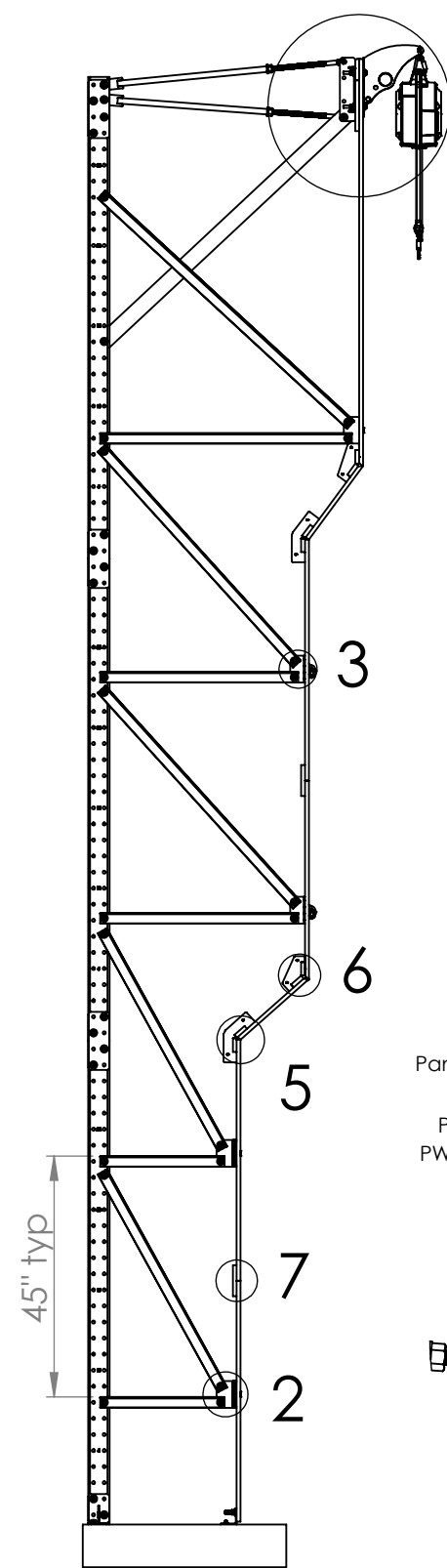
Direct



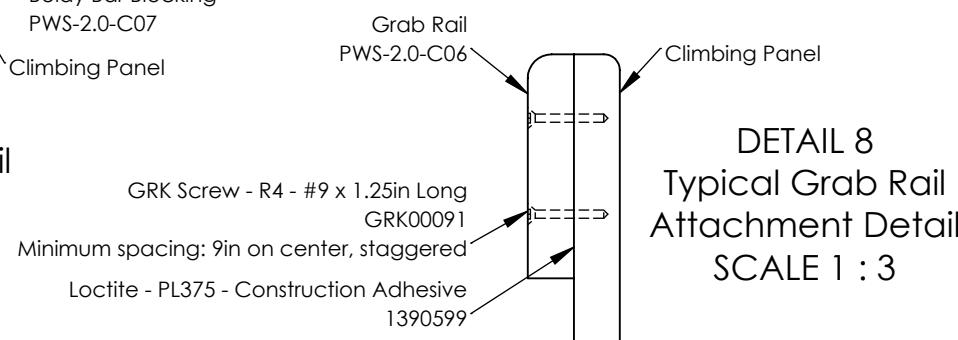
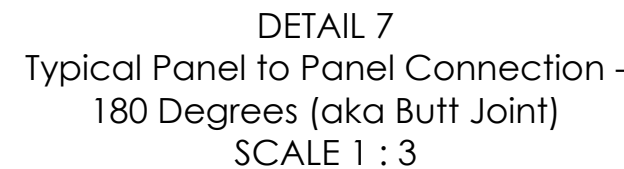
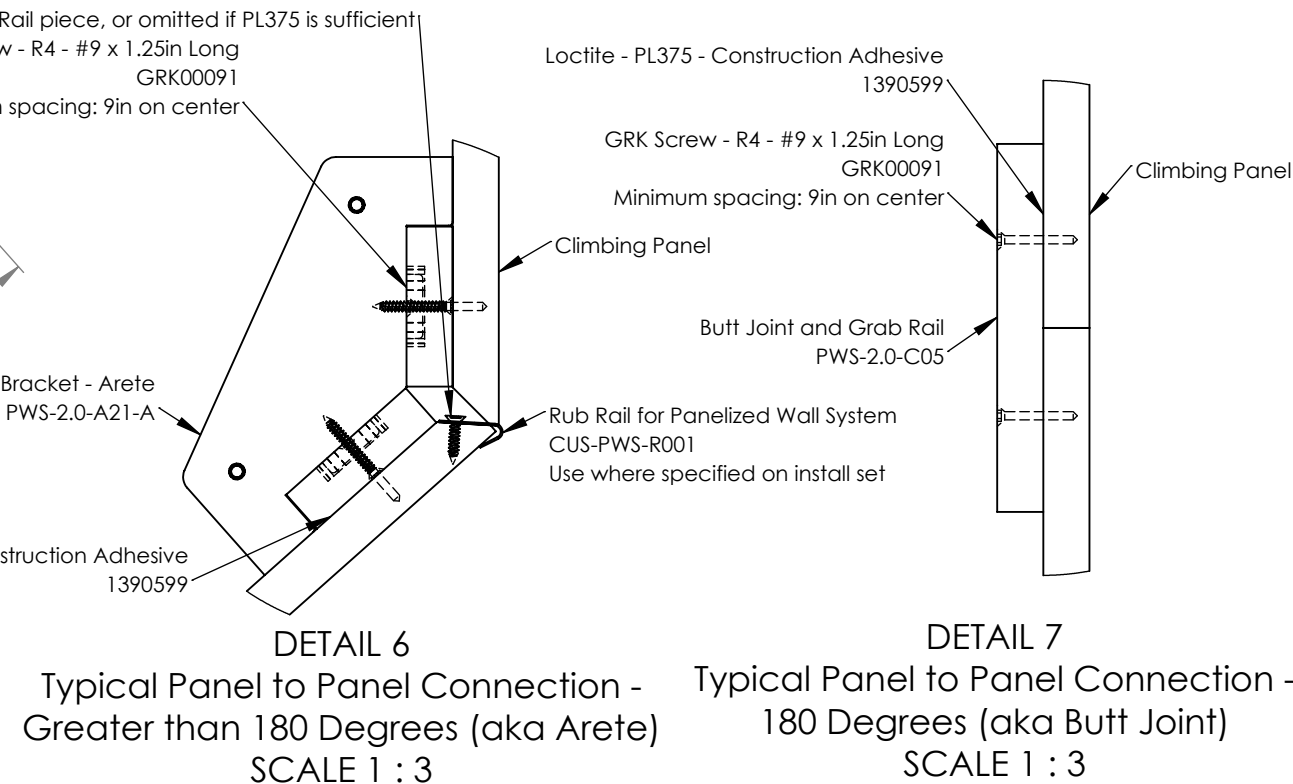
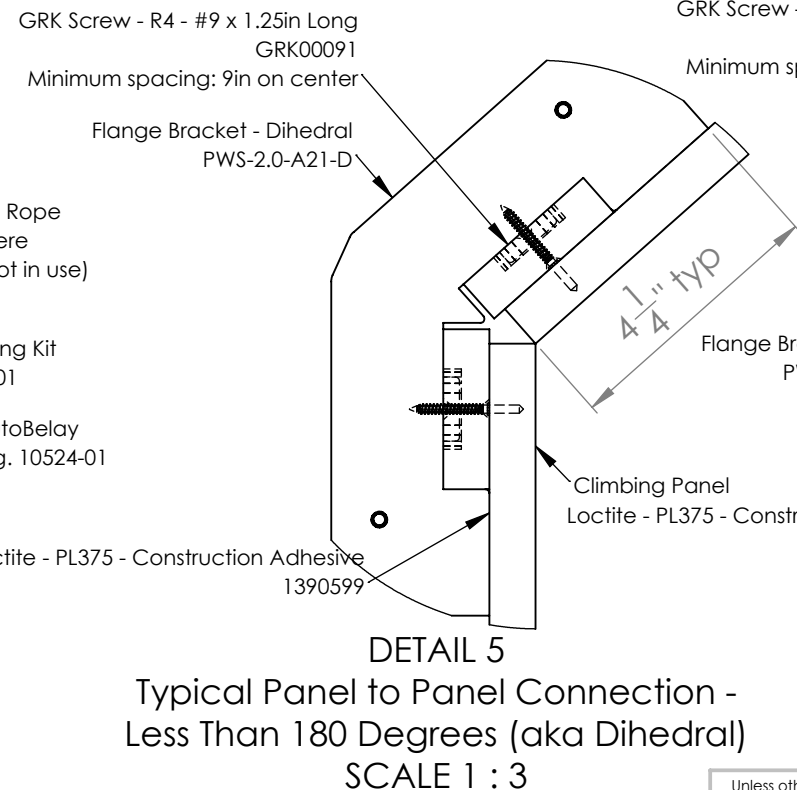
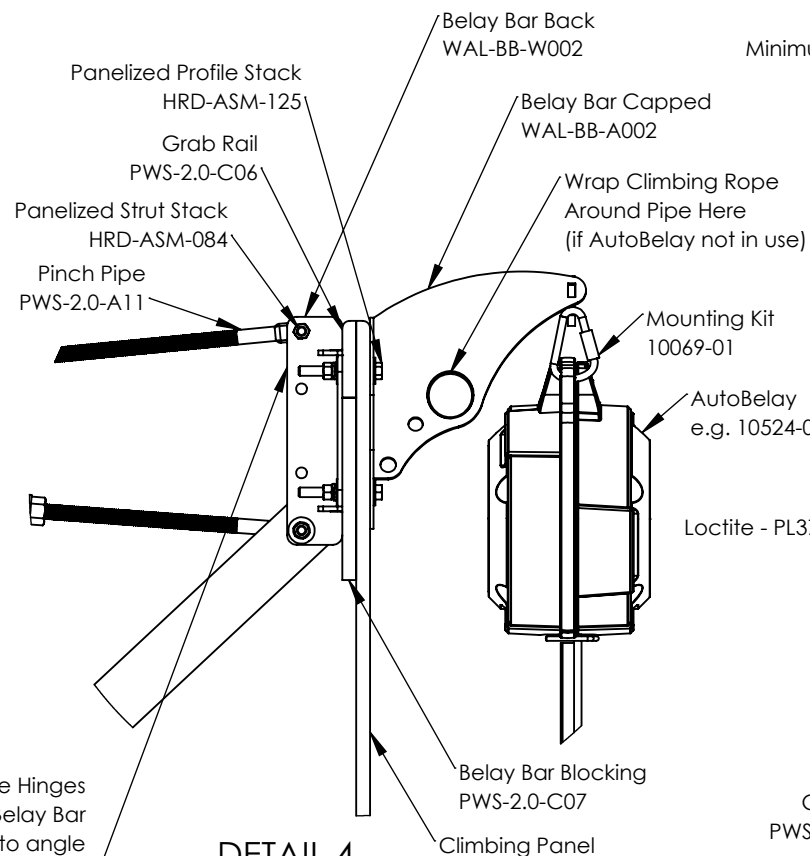
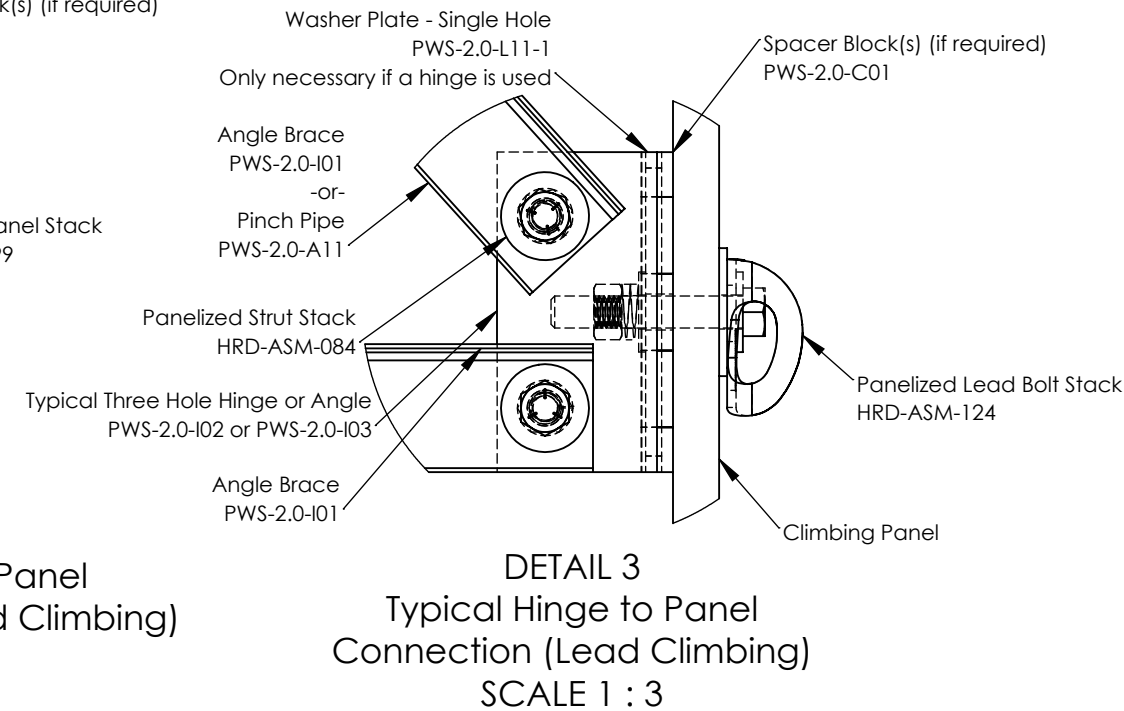
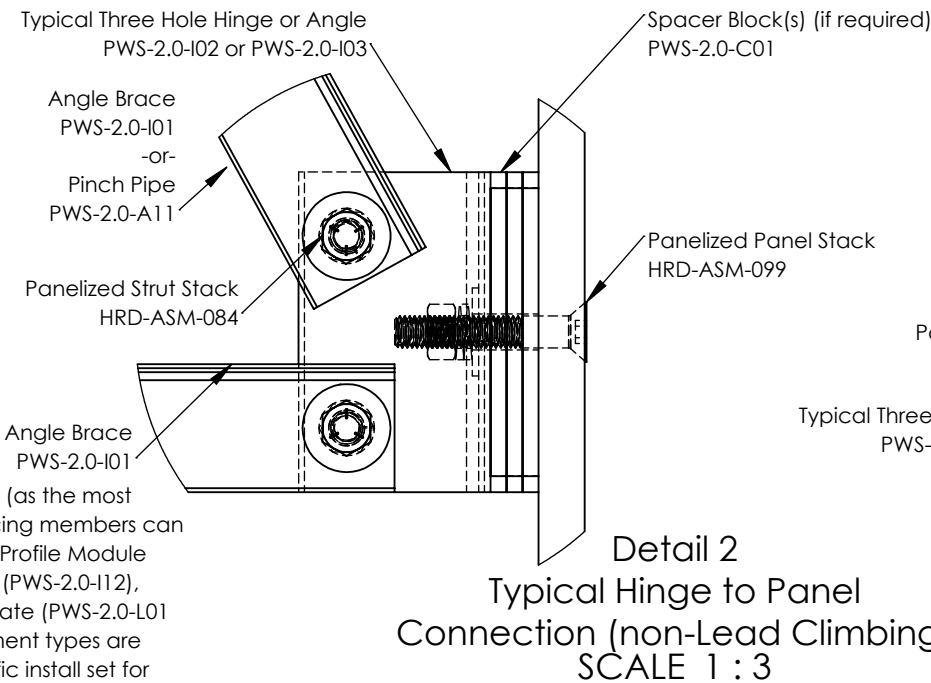
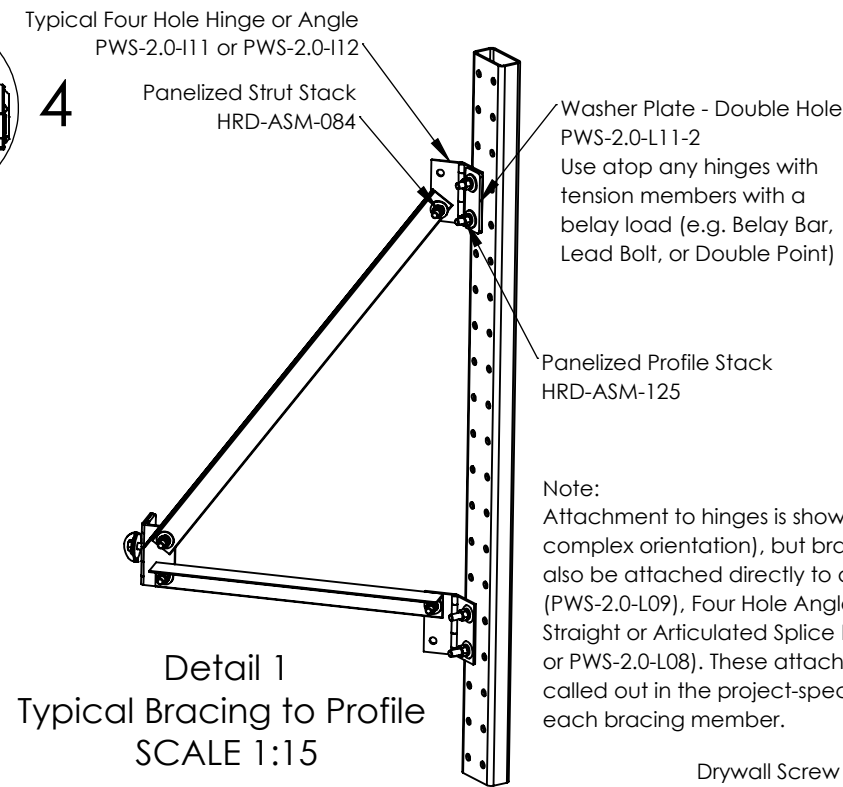
Hinged



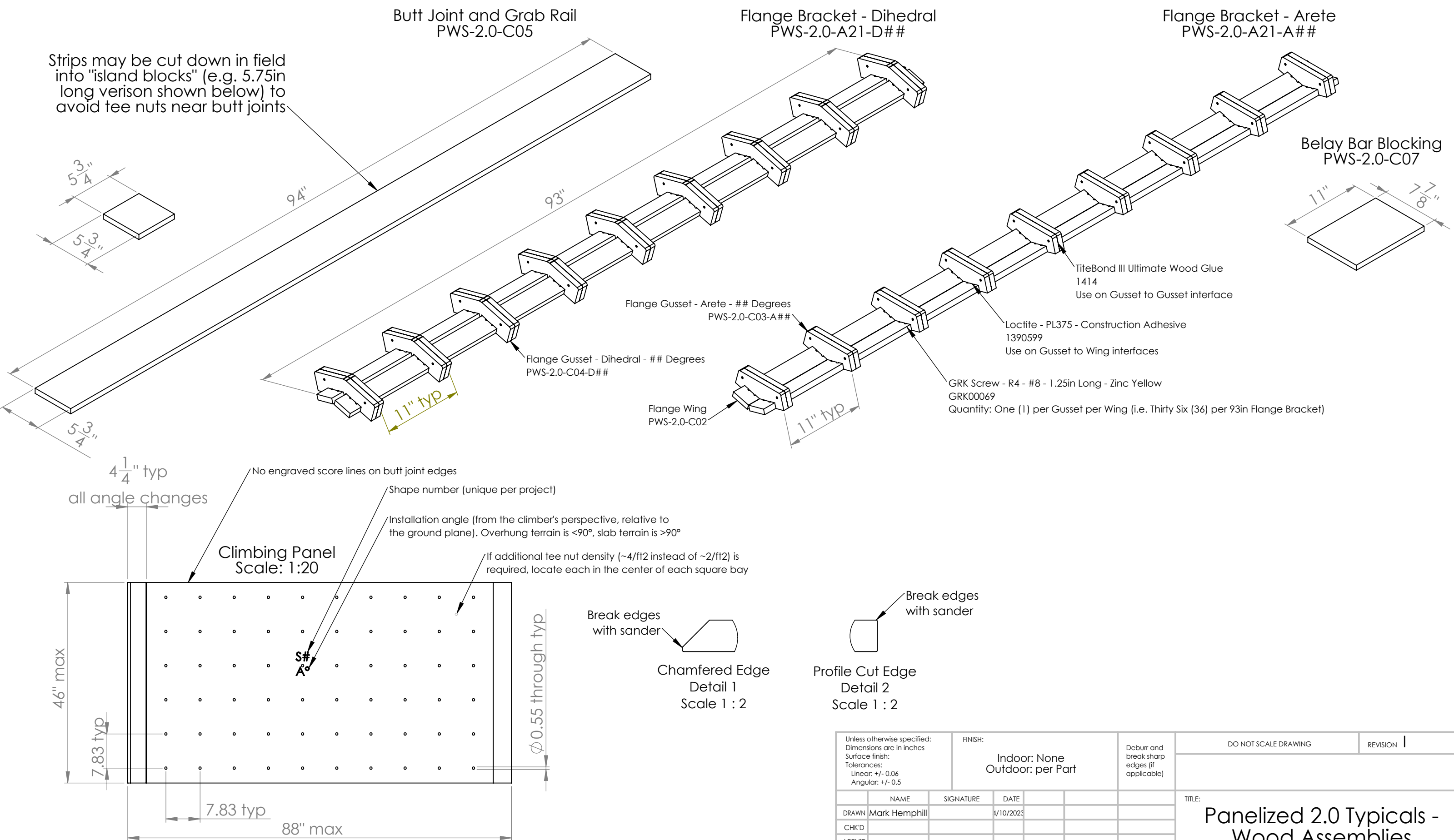
Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5				FINISH:		Deburr and break sharp edges (if applicable)		DO NOT SCALE DRAWING		REVISION	
		NAME		SIGNATURE		DATE				TITLE: Panelized 2.0 Typicals - Articulated Profiles	
DRAWN											
CHK'D											
APPV'D											
MFG											
Q.A						MATERIAL:		DWG NO.		B	
								P2-0.04			
								SCALE: 1:20		SHEET 5 OF 19	
						WEIGHT:					



Two (2) or Four (4) Typical Four Hole Hinges (PWS-2.0-I11) may be bolted onto the Belay Bar Back (PWS-.20-W04) if/as needed to angle bracing in one or two directions to the nearest Profile(s).



Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5				FINISH: None		Deburr and break sharp edges (if applicable)		DO NOT SCALE DRAWING		REVISION 1			
								TITLE: Panelized 2.0 Typicals - Climbing Wall Details - Indoor					
NAME		SIGNATURE		DATE									
DRAWN Mark Hemphil				6/15/2023									
CHK'D													
APP'VD													
MFG													
Q.A				MATERIAL: As Noted				DWG NO.		P2-0.05-I		B	
								SCALE: 1:35		SHEET 6 OF 19			
				WEIGHT: 710.358460									



Notes:

1. The longest possible flanges (93in and 94in long for angle changes and butt joints, respectively) are shown above. Actual flange bracket lengths and angles (and thus gussets used) will vary from joint to joint. Similarly, the Climbing Panel is shown for reference only. Actual shapes will have unique polygonal outlines.

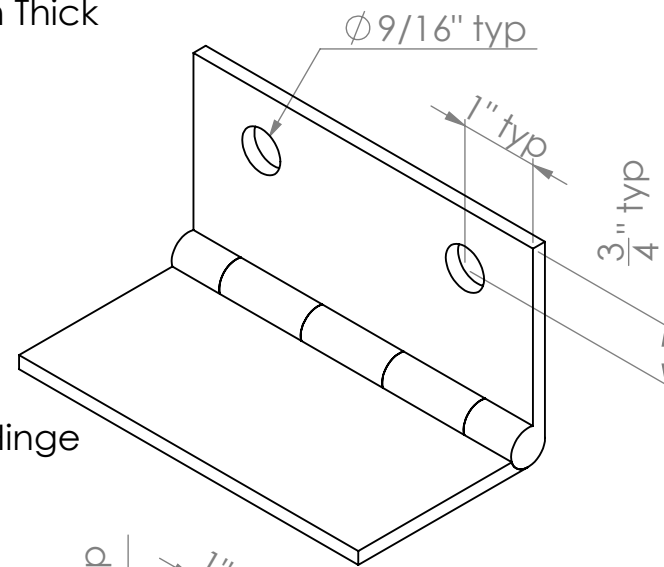
Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: Indoor: None Outdoor: per Part			Deburr and break sharp edges (if applicable)			DO NOT SCALE DRAWING			REVISION					
									TITLE: Panelized 2.0 Typicals - Wood Assemblies								
NAME		SIGNATURE		DATE													
DRAWN Mark Hemphill				4/10/2023													
CHK'D																	
APPV'D																	
MFG										DWG NO. P2-0.06							
Q.A																	
						MATERIAL: As Noted			B								
									SCALE: 1:10								
						WEIGHT: 13.186720			SHEET 8 OF 19								

Butt Hinge - 0.375in OD Pin - 5in Long - 5in Wide - 0.18in Thick
BTS18505037

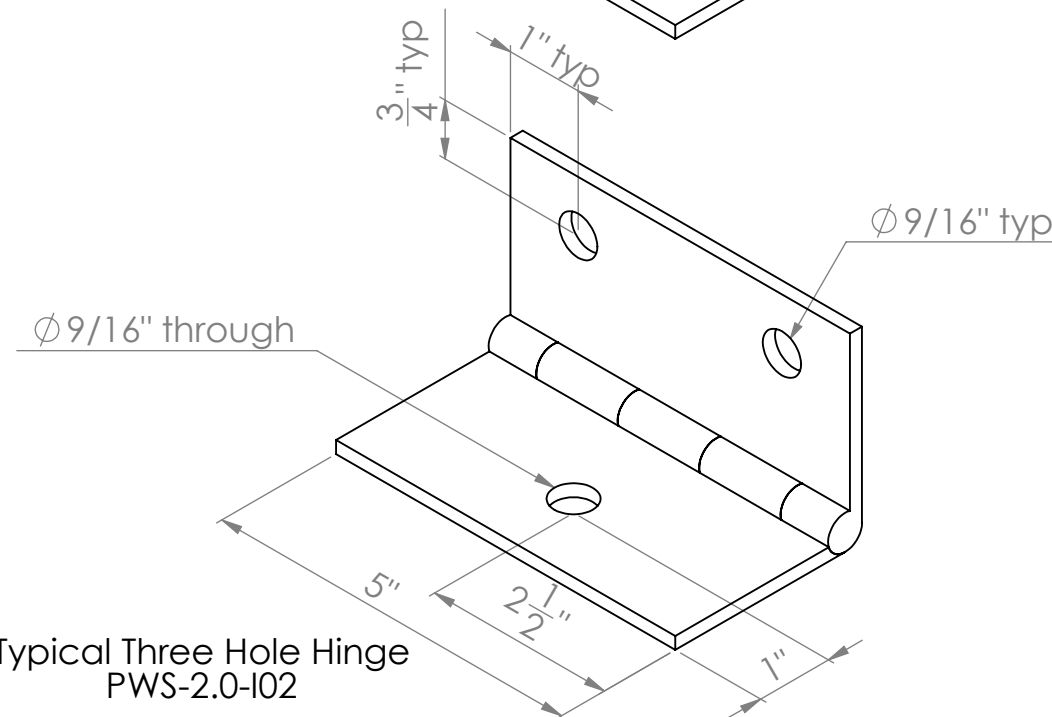
Finish (for hinge parts):

- Indoor: None
- Outdoor: Zinc Yellow

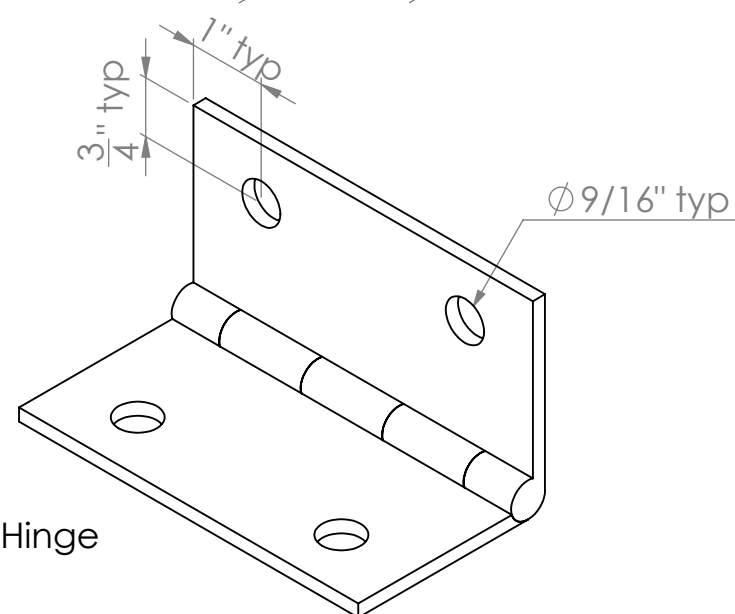
Typical Two Hole Hinge
PWS-2.0-108



Typical Three Hole Hinge
PWS-2.0-102



Typical Four Hole Hinge
PWS-2.0-111

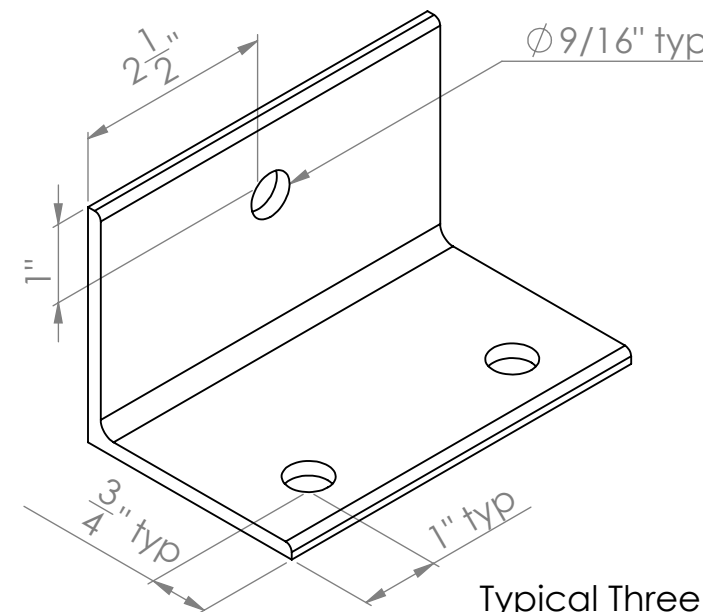


Steel Angle - 3in x 3in x 0.1875in - A36 - 5in Long
MAT-STL-001-3-3-0.1875-A36-5

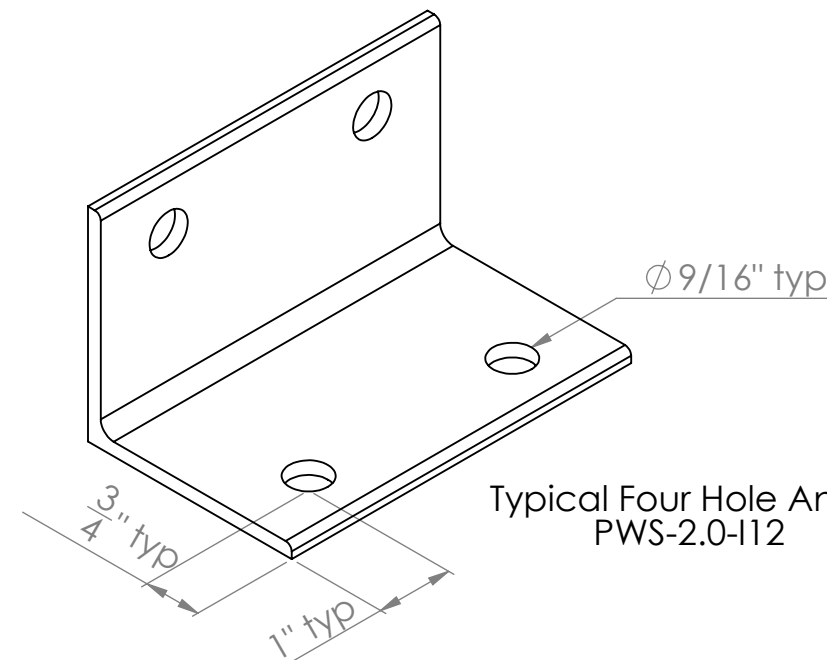
Finish (for angle iron parts):

- Indoor: None
- Outdoor: Hot Dip Galvnize

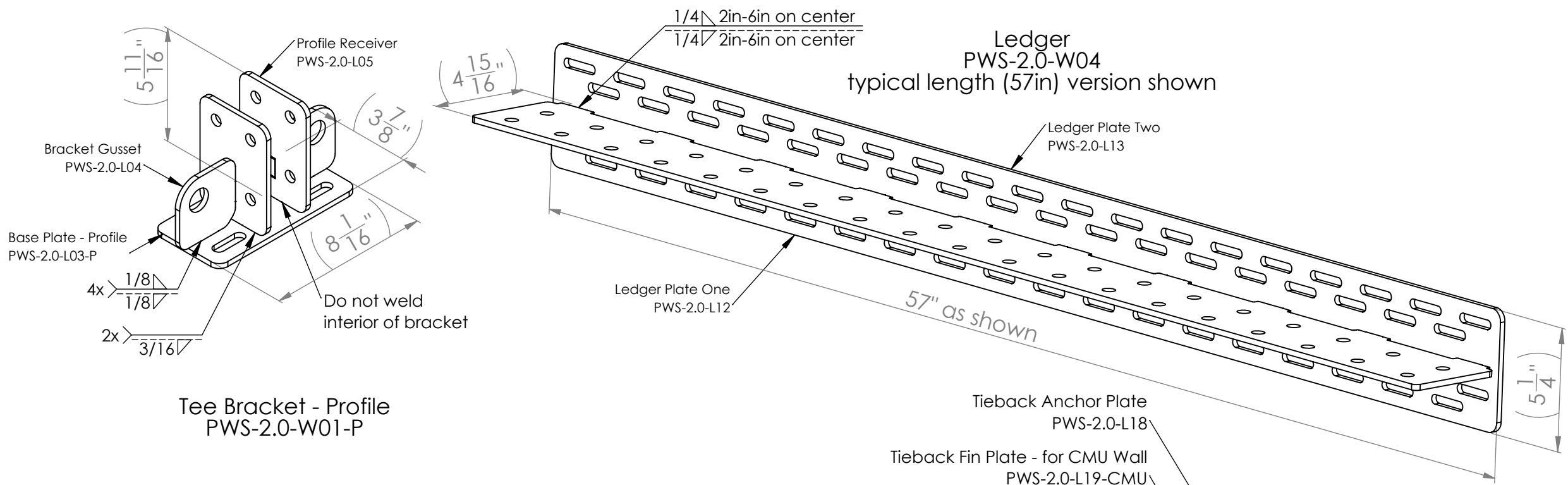
Typical Three Hole Angle
PWS-2.0-103



Typical Four Hole Angle
PWS-2.0-I12

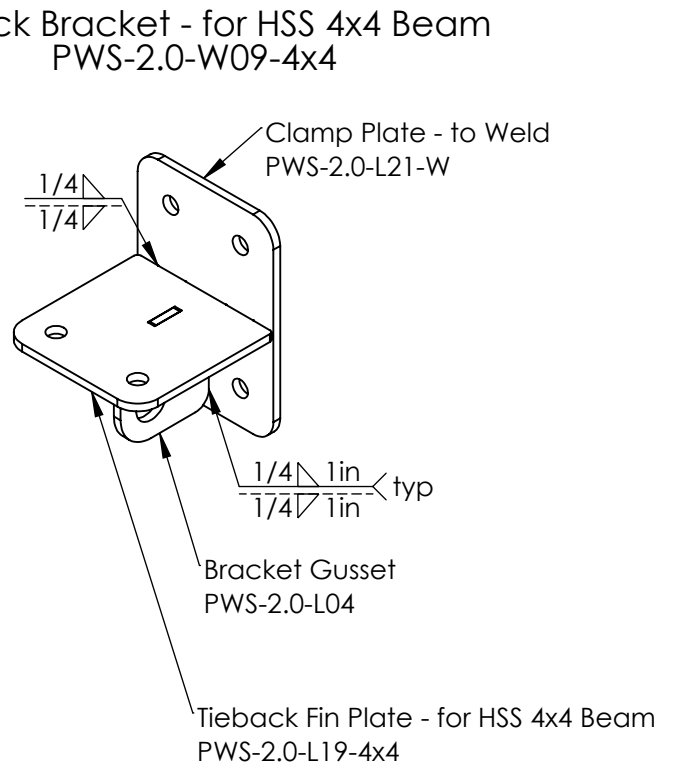
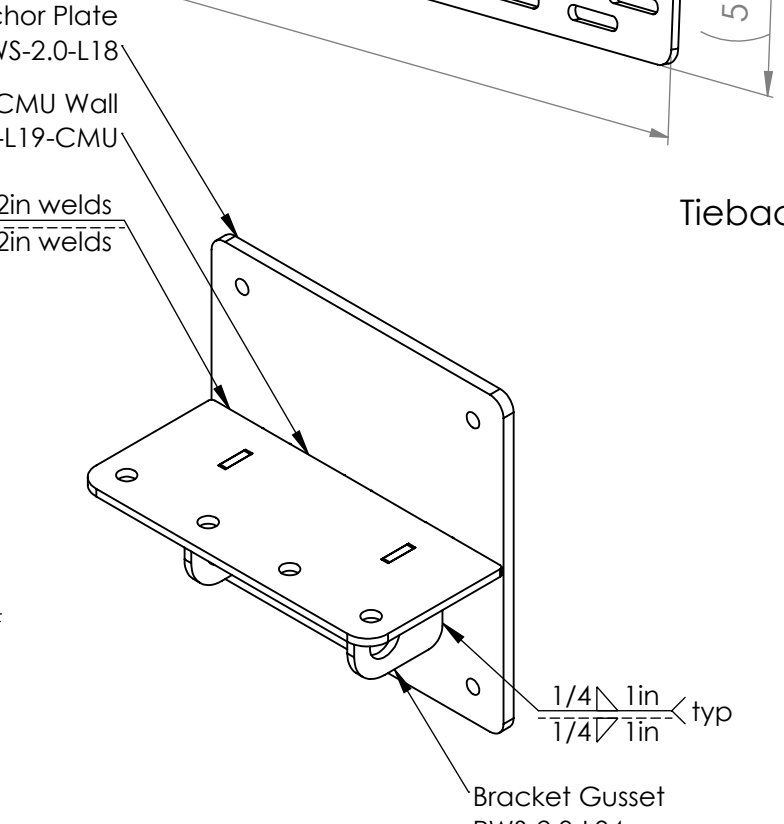
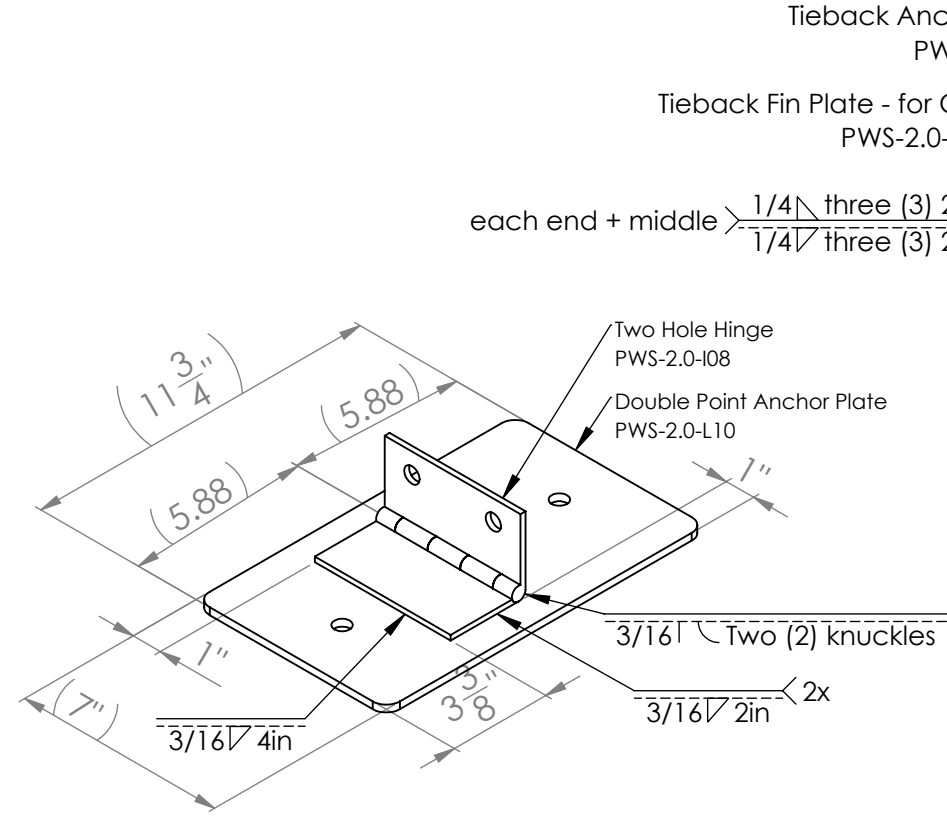
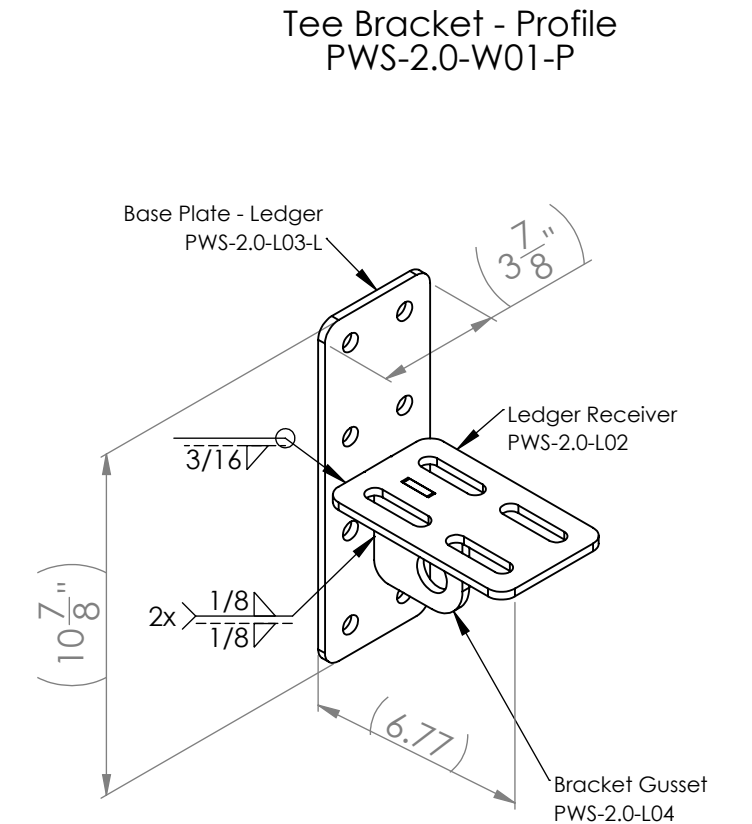


Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: None			Debur and break sharp edges (if applicable)	DO NOT SCALE DRAWING		REVISION		
	NAME	SIGNATURE	DATE				TITLE: Panelized 2.0 Typicals - Ironworked Parts				
DRAWN	Mark Hemphill		4/8/2020								
CHK'D											
APP'VD											
MFG											
Q.A				MATERIAL: As Noted			DWG NO. P2-0.07		B		
			WEIGHT: 1.426324			SCALE: 1:2		SHEET 10 OF 19			



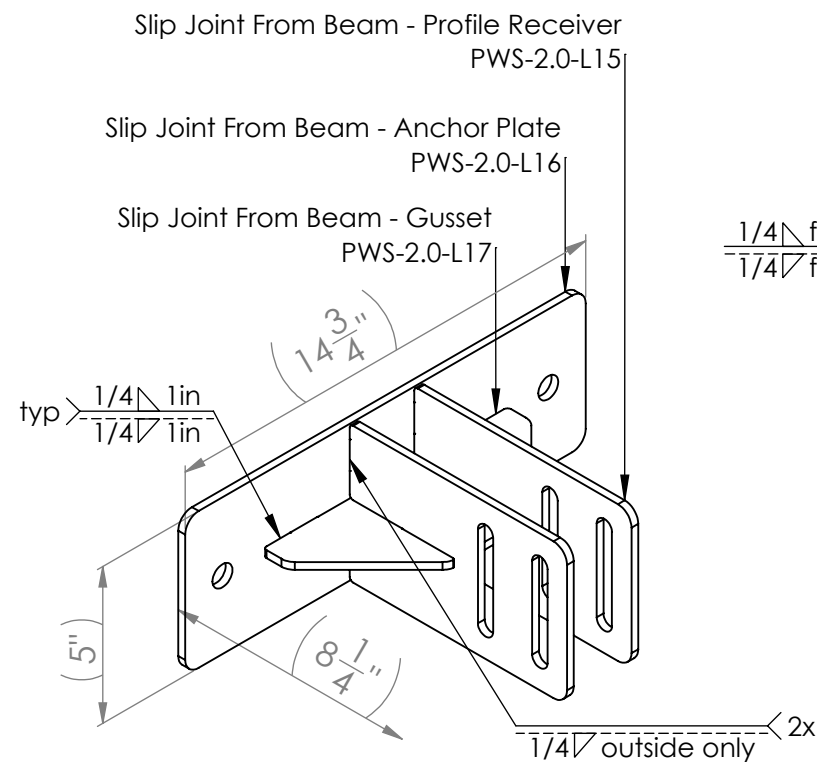
Profile Spacing	Ledger Length
4ft	45in
5ft	57in
6ft	69in
7ft	81in

Note: Ledger Weldments (PWS-2.0-W04) may be cut in the shop or field if/as needed, ideally only every 3in (in order to maintain anticipated hole spacing from each end).

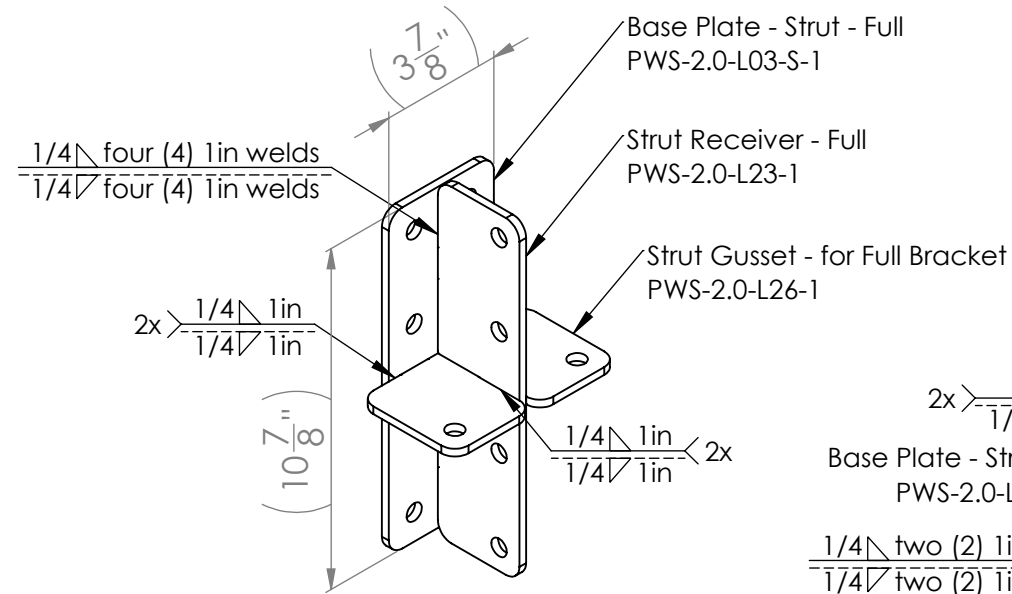


- Notes:
- The following weldments can be found on their own drawings (and also require a different finish if used outdoors).
 - Pinch Pipe Fixed End (PWS-2.0-W02)
 - Frankenbrace Fixed End (PWS-2.0-W14)
 - Mounting Bracket (WAL-BB-W004)
 - Mega Bump Off (WAL-BB-W005)
 - Plates without relational dimensions shown are all self-fixturing (with tabs controlling locations and orientations).
 - As shown, all plates should be welded perpendicular to each other.

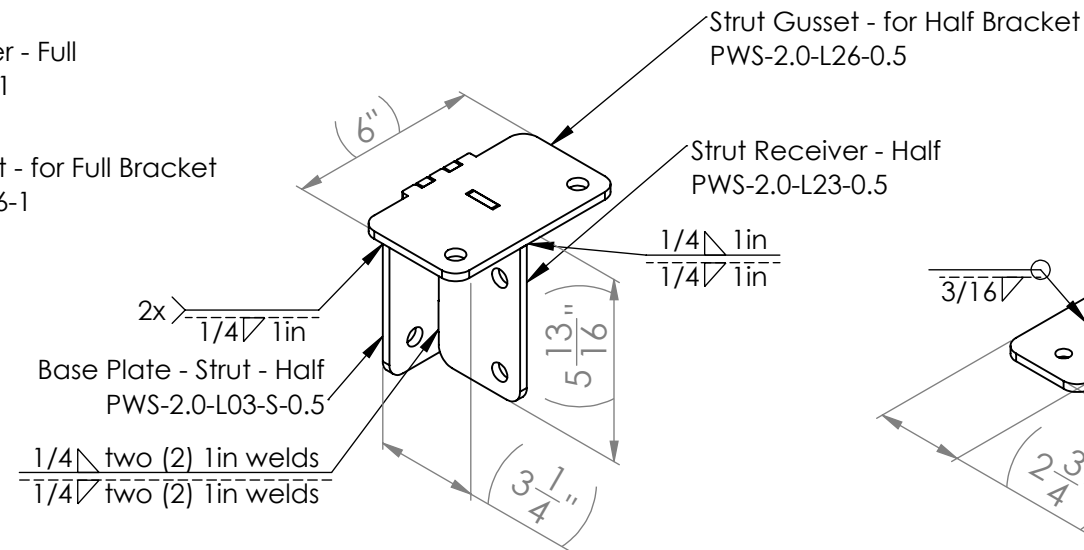
Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: Indoor: None Outdoor: Hot Dip Galvanized			Deburr and break sharp edges (if applicable)			DO NOT SCALE DRAWING			REVISION				
									TITLE: Panelized 2.0 Typicals - Weldments 1							
DRAWN	Mark Hemphill		SIGNATURE	5/15/2023		DATE										
CHK'D																
APPV'D																
MFG																
Q.A							MATERIAL: As Noted			DWG NO. P2-0.08			B			
						WEIGHT: 6.04			SCALE: 1:5			SHEET 11 OF 19				



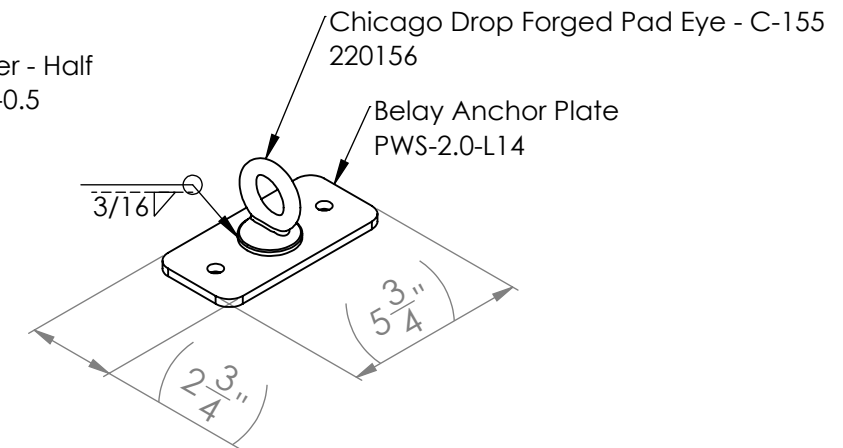
Slip Joint Bracket For Beam
(from Behind)
PWS-2.0-W08



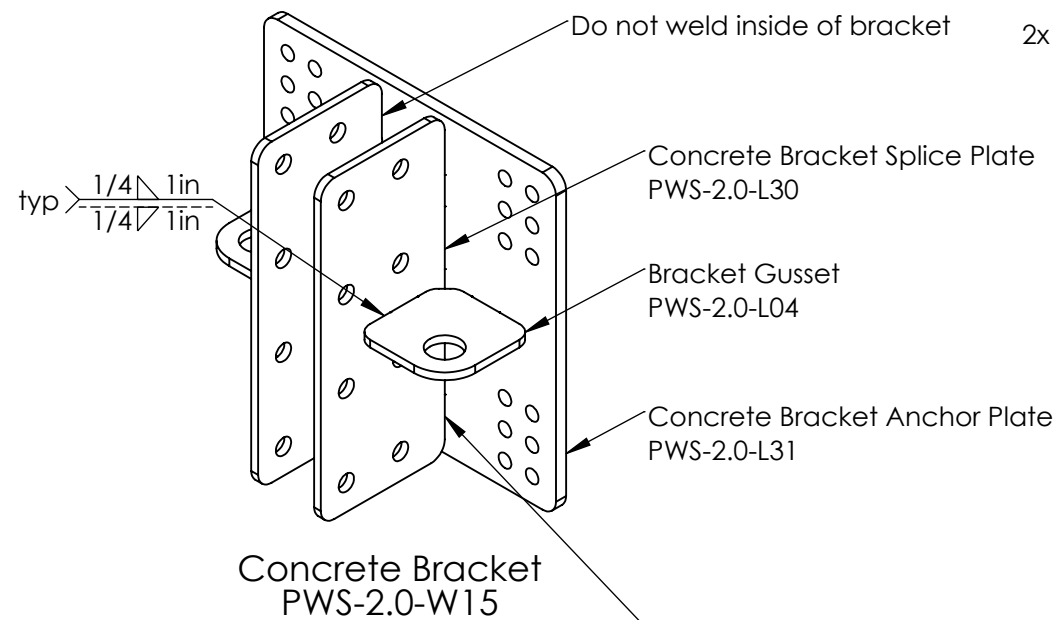
Tee Bracket - Strut - Full
PWS-2.0-W01-S-1



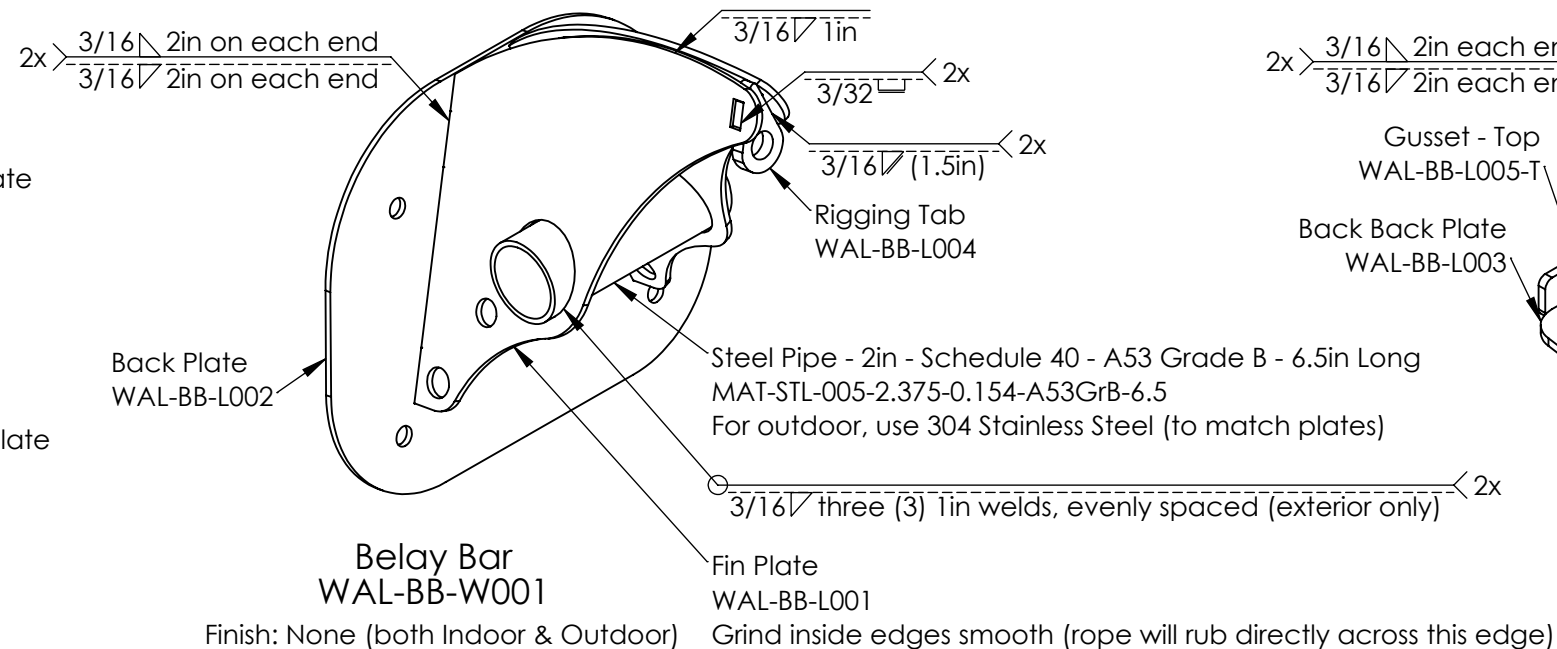
Tee Bracket - Strut - Half
PWS-2.0-W01-S-0.5



Belay Anchor
PWS-2.0-W07

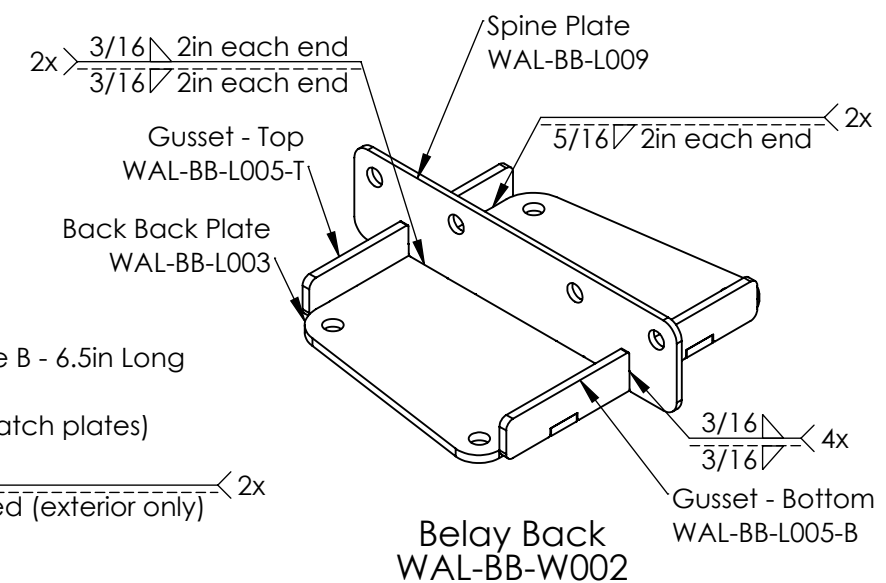


Concrete Bracket
PWS-2.0-W15



Belay Bar
WAL-BB-W001

Finish: None (both Indoor & Outdoor)

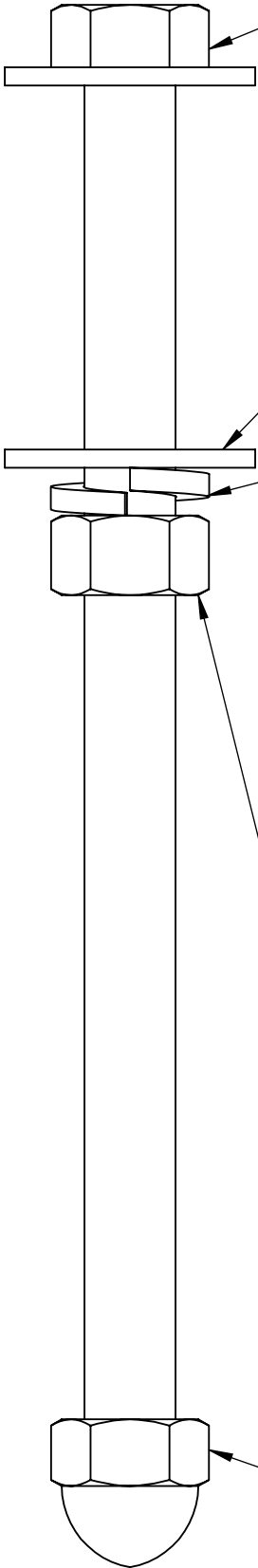


Belay Back
WAL-BB-W002

- Notes:
- The following weldments can be found on their own drawings (and also require a different finish if used outdoors).
 - Pinch Pipe Fixed End (PWS-2.0-W02)
 - Frankenbrace Fixed End (PWS-2.0-W14)
 - Mounting Bracket (WAL-BB-W004)
 - Mega Bump Off (WAL-BB-W005)
 - Plates without relational dimensions shown are all self-fixturing (with tabs controlling locations and orientations).
 - As shown, all plates should be welded perpendicular to each other.

Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: Indoor: None Outdoor: Hot Dip Galvanize			Deburr and break sharp edges (if applicable)	DO NOT SCALE DRAWING		REVISION		
	NAME	SIGNATURE	DATE				TITLE: Panelized 2.0 Typicals - Weldments 2				
DRAWN	Mark Hemphill		5/15/2023								
CHK'D											
APPV'D											
MFG											
Q.A											
							DWG NO.		B		
							P2-0.09				
							SCALE: 1:5		SHEET 12 OF 19		

Panelized Safety Stack - Rung - Indoor
HRD-ASM-126-R-I



Screw - 0.5in - 13 Thread - 8in Long - Hex Head - External Hex - Grade 5 - Zinc Plated - Full Thread
PartNo: HRD-SCR-001-0.5-13-8-HH-EH-5-ZP-FT
VendorNo: HTB5Z-50C-800

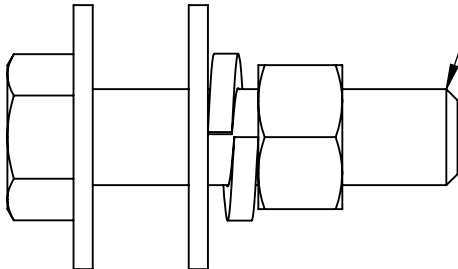
Flat Washer - 0.5in - USS - Zinc Plated
PartNo: HRD-WAS-001-0.562-1.375-0.132-2-ZP
VendorNo: FWUZ-50

Split Lock Washer - 0.5in - Grade 5 - Zinc Plated
PartNo: HRD-WAS-002-0.512-0.869-5-ZP
VendorNo: SLW5Z-50

Nut - 0.5in - 13 Thread - External Hex - Grade 5 - Zinc Plated
PartNo: HRD-NUT-001-0.5-13-EH-5-ZP
VendorNo: FHN5Z-50C

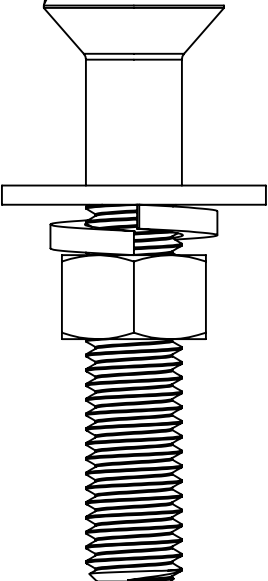
Acorn Nut - 0.5in - 13 Thread - Nickel Plated
PartNo: HRD-NUT-006-0.5-13-NI
VendorNo: ACNNI-50C

Panelized Strut Stack - Indoor
HRD-ASM-084-I



Screw - 0.5in - 13 Thread - 3in Long - Hex Head - External Hex - Grade 5 - Zinc Plated - Full Thread
PartNo: HRD-SCR-001-0.5-13-3-HH-EH-5-ZP-FT
VendorNo: HC5Z-50C-300

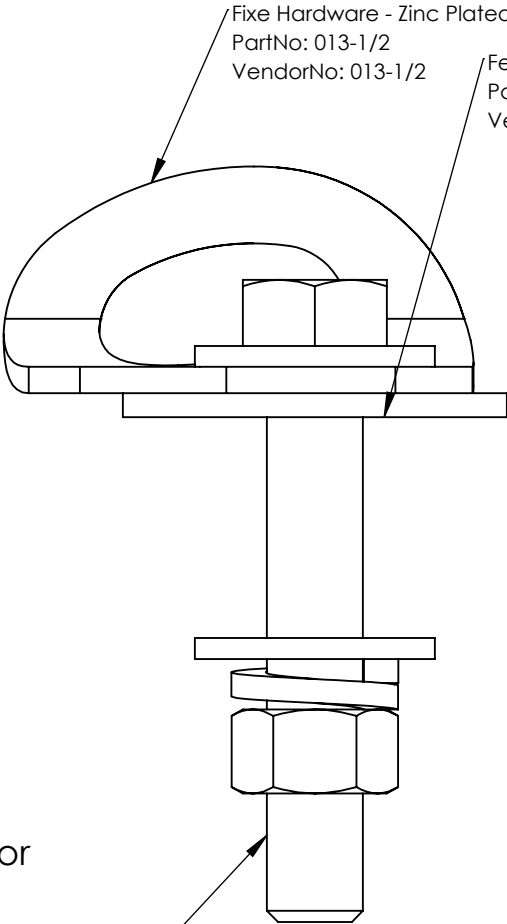
Panelized Panel Stack - Indoor
HRD-ASM-099-I



Screw - 0.5in - 13 Thread - 4in Long - Hex Head - External Hex - Grade 5 - Zinc Plated - Full Thread
PartNo: HRD-SCR-001-0.5-13-4-HH-EH-5-ZP-FT
VendorNo: HTB5Z-50C-200

Screw - 0.5in - 13 Thread - 2in Long - Hex Head - External Hex - Grade 5 - Zinc Plated - Full Thread
PartNo: HRD-SCR-001-0.5-13-2-HH-EH-5-ZP-FT
VendorNo: HTB5Z-50C-200

Screw - 0.5in - 13 Thread - 3in Long - Flat Head - Internal Hex Drive - F825 - Zinc Plated - Partial Thread
PartNo: HRD-SCR-001-0.5-13-3-FH-IH-F835-ZP-PT
VendorNo: 2.07



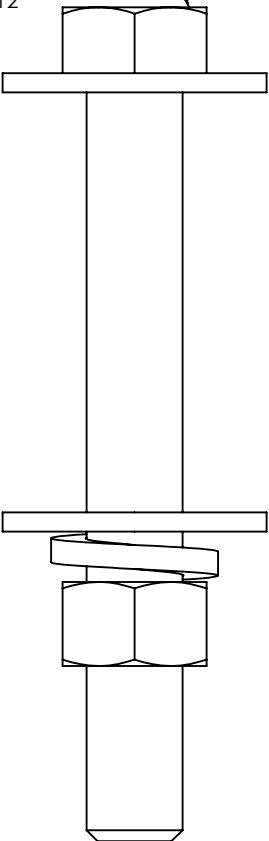
Fixe Hardware - Zinc Plated Steel - 0.5in Bolt Hanger
PartNo: 013-1/2
VendorNo: 013-1/2

Fender Washer - for 0.5in Screw - 2in OD - 0.125in Thick - Zinc Plated
PartNo: HRD-WAS-001-0.531-2-0.125
VendorNo: FEWZ-50-200-12

Panelized Lead Bolt Stack - Indoor
HRD-ASM-124-I

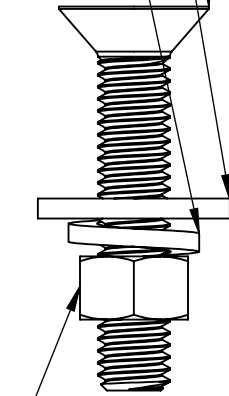
Nut - 0.375in - 16 Thread - External Hex - Grade 5 - Zinc Plated
PartNo: HRD-NUT-001-0.375-16-EH-5-ZP
VendorNo: FHN5Z-37C

Panelized Profile Stack - Indoor
HRD-ASM-125-I



Flat Washer - 0.375in - USS - Zinc Plated
PartNo: HRD-WAS-001-0.438-1-0.104-USS-ZP
VendorNo: FWUZ-37

Split Lock Washer - 0.375in - Zinc Plated
PartNo: HRD-WAS-002-0.385-0.68-5-ZP
VendorNo: SLW5Z-37

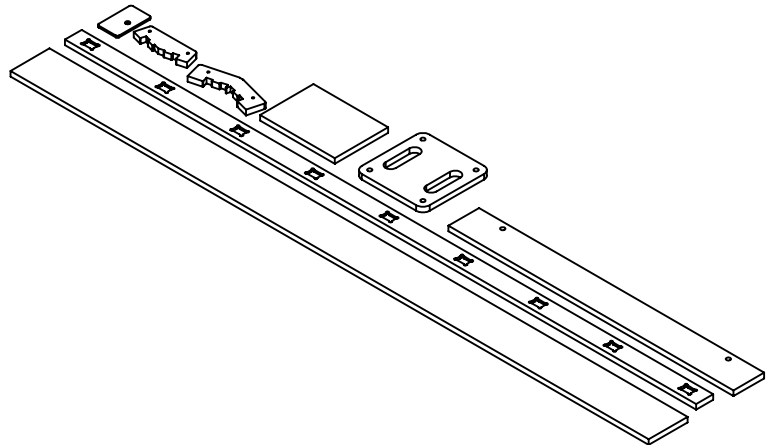
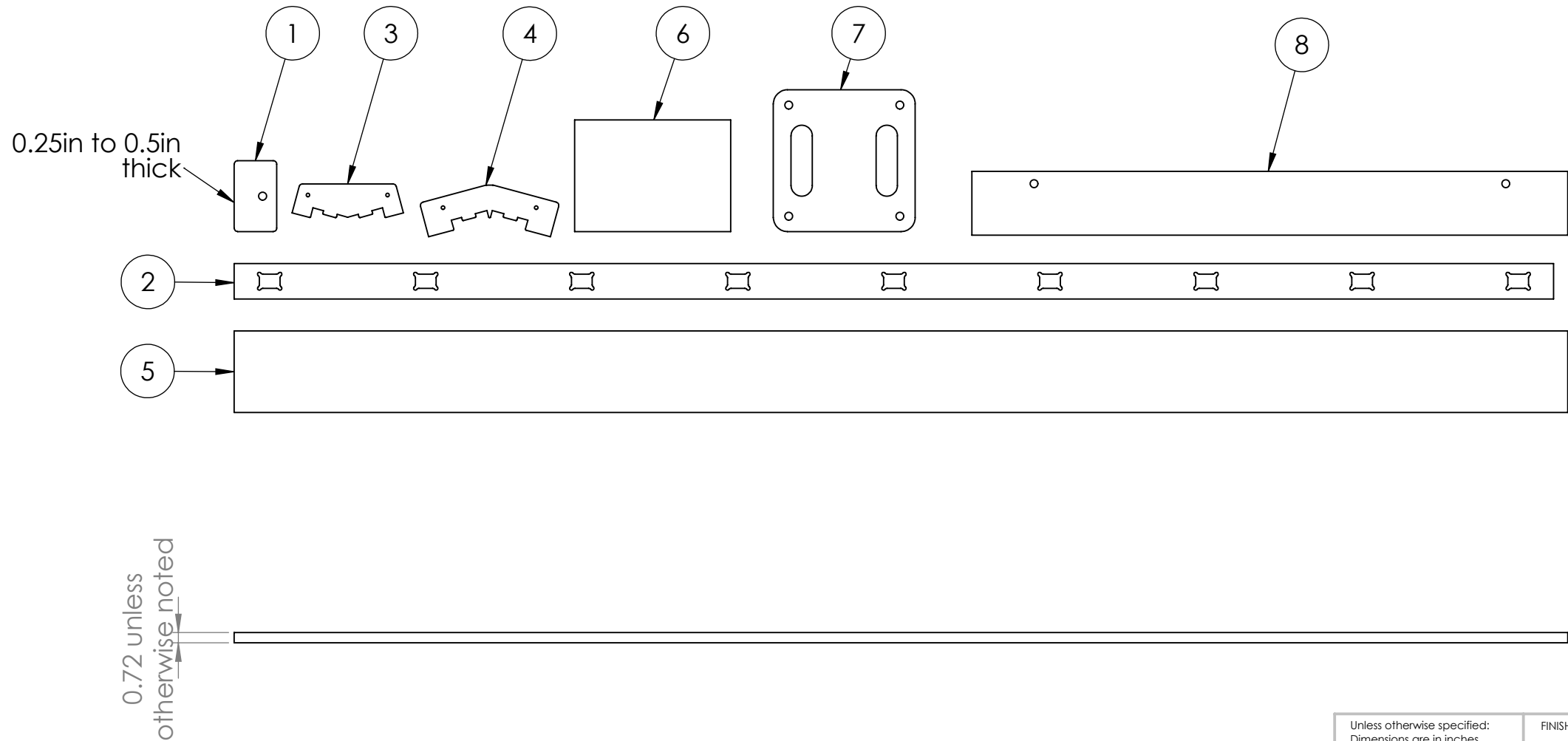


Eldo Plaque Stack
HRD-ASM-139

- Notes:
- Any part not explicitly labeled is assumed to be the same as another instance of the part within another hardware assembly. For example, flar washers, lock washer, hex nuts, and bolt hangers.
 - Longer or shorter bolts of the same diameter, threading, and equivalent or better grade may be substituted in any hardware stack (e.g. using 4in or 5in bolts instead of 3.5in ones for HRD-ASM-125 where necessary).

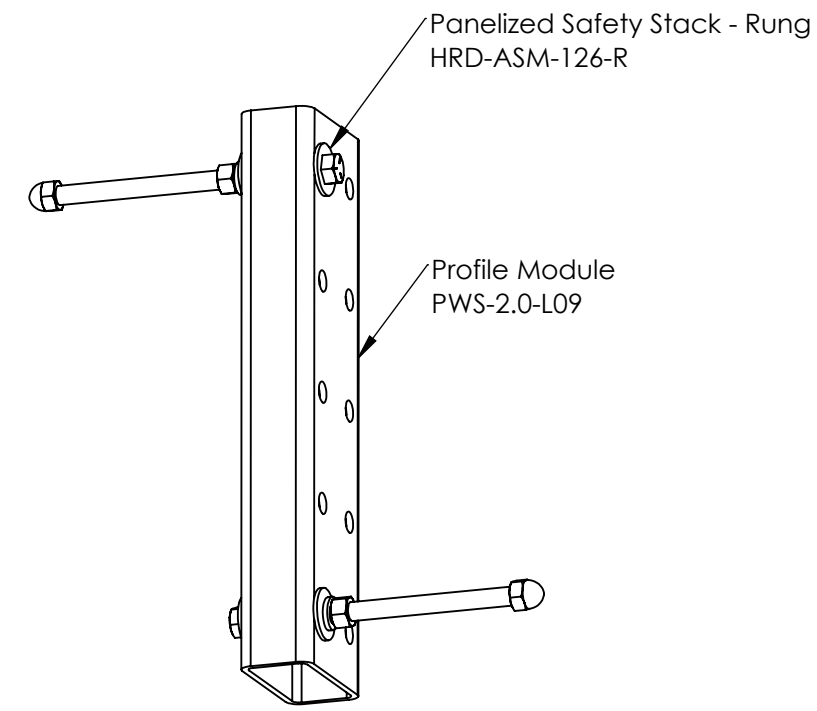
Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: None			Deburr and break sharp edges (if applicable)			DO NOT SCALE DRAWING			REVISION					
									TITLE: Panelized 2.0 Typicals - Hardware Stacks - Indoor								
NAME			SIGNATURE			DATE											
DRAWN Mark Hemphill						5/15/2023											
CHK'D																	
APPV'D																	
MFG									DWG NO. P2-0.10-I								
Q.A						MATERIAL: As Noted									B		
									SCALE: 1:1								
						WEIGHT: 0.276302			SHEET 13 OF 19								

ITEM NO.	PartNo	DESCRIPTION	Material	Thickness	QTY Shown	Cut File(s)
1	PWS-2.0-C01	Spacer Block	Plywood	0.25	1	PWS-2.0-CNC-PLY-03
2	PWS-2.0-C02	Flange Wing	Plywood (7 Layer)	0.72	1	PWS-2.0-CNC-PLY-02
3	PWS-2.0-C03-A##	Flange Gusset - Arete - ## Degrees	Plywood (7 Layer)	0.72	1	PWS-2.0-CNC-PLY-04
4	PWS-2.0-C04-D##	Flange Gusset - Dihedral - ## Degrees	Plywood (7 Layer)	0.72	1	PWS-2.0-CNC-BIR-04
5	PWS-2.0-C05-5.75x94	Butt Joint - 5.75in Wide x 94in Long	AdvanTech	0.72	1	PWS-2.0-CNC-ADV-01
6	PWS-2.0-C07	Belay Bar Blocking	AdvanTech	0.72	1	PWS-2.0-CNC-ADV-02
7	PWS-2.0-C18-2x2	Butt Joint Alignment Block - 2x2	AdvanTech	0.72	1	PWS-2.0-CNC-ADV-04
8	PWS-2.0-C19	Access Hatch Flange	AdvanTech	0.72	1	PWS-2.0-CNC-PLY-06



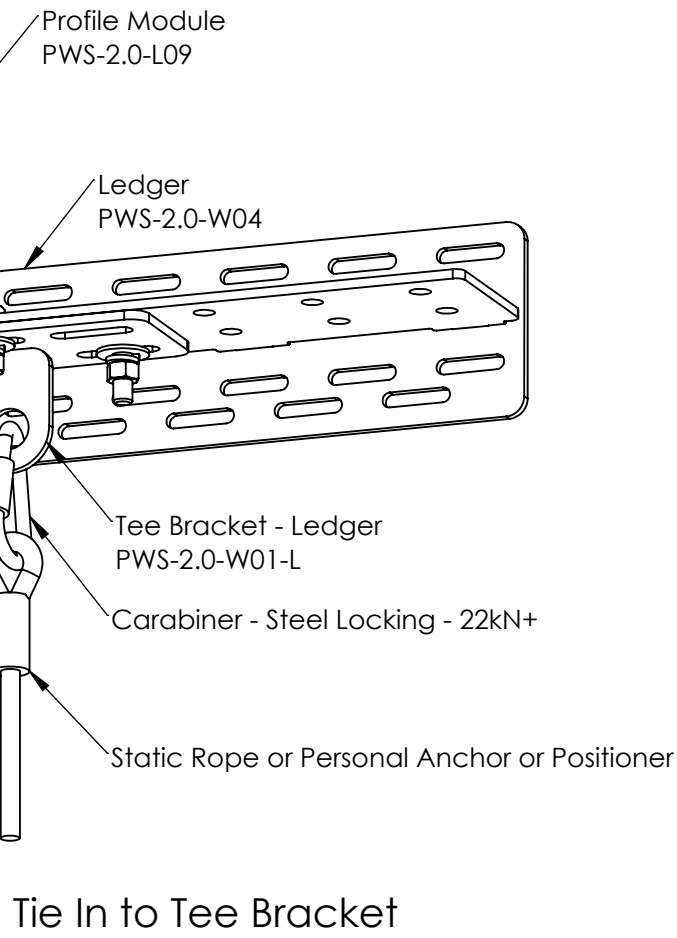
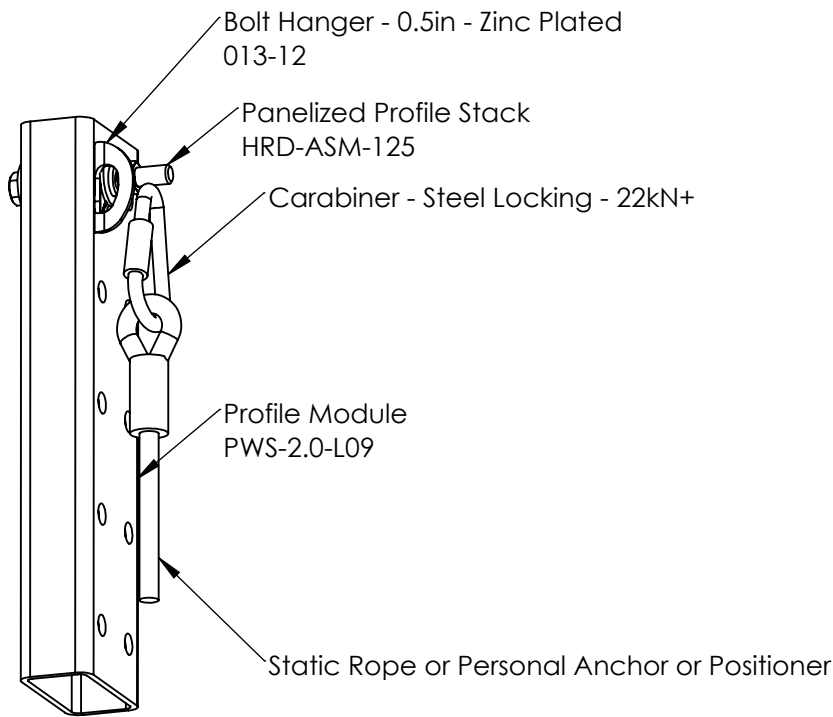
Notes:
1. Example instances of the Flange Gusset - Arete and Dihedral (items 3 and 4, respectively) are shown above. In reality, many different angles of each will be present on any given project.
2. Other configurations of item 8 are available (e.g. 2x4, 2x6) if/as desired by installers.

Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: Indoor: None Outdoor: CTG-OUT-SM			Deburr and break sharp edges (if applicable)	DO NOT SCALE DRAWING	REVISION
	NAME	SIGNATURE	DATE				TITLE: Panelized 2.0 Typicals - Wood to CNC	
DRAWN	Mark Hemphill		4/25/2023					
CHK'D								
APPV'D								
MFG								
Q.A						MATERIAL: As Noted	DWG NO. P2-0.11-I	B
						WEIGHT:	SCALE: 1:10	SHEET 15 OF 19

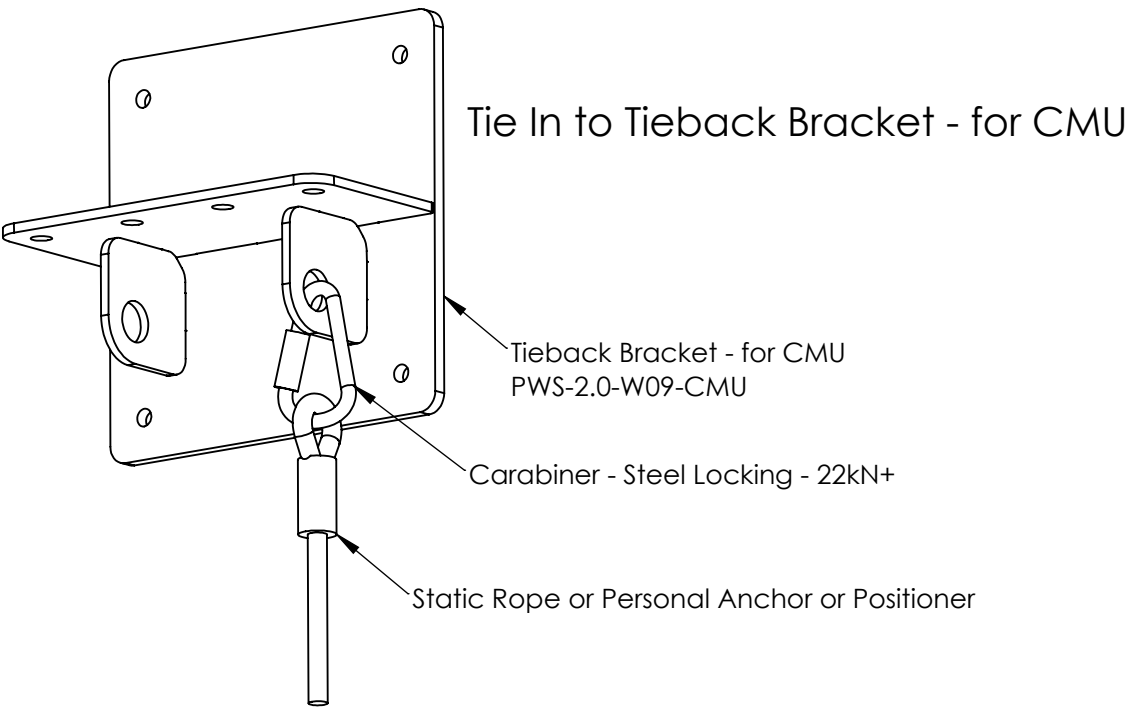


Rungs on Profile

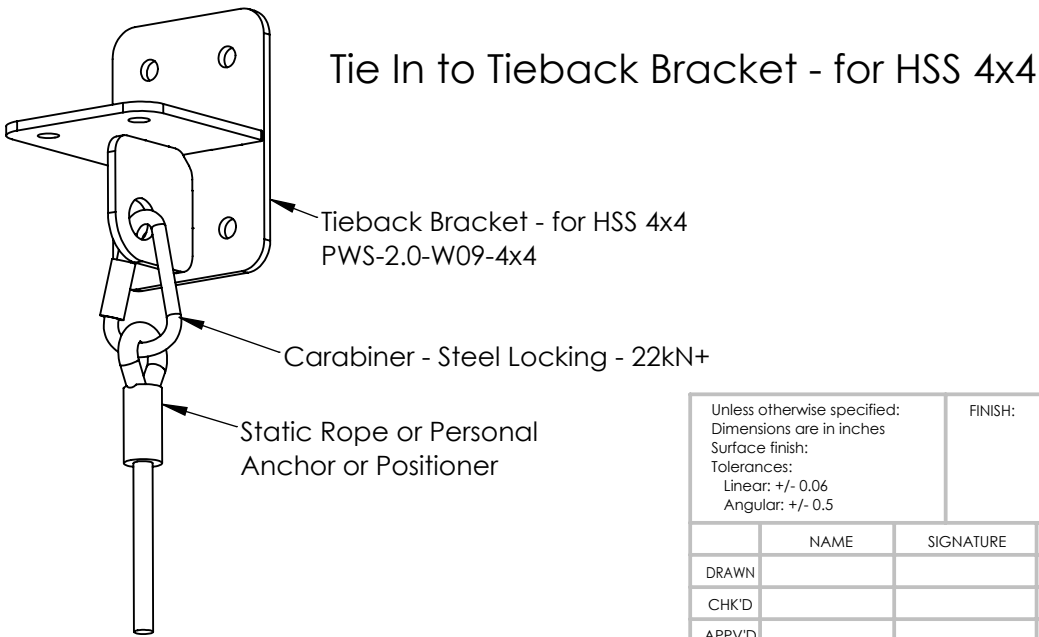
Tie In to Profile



Tie In to Tee Bracket



Tie In to Tieback Bracket - for CMU

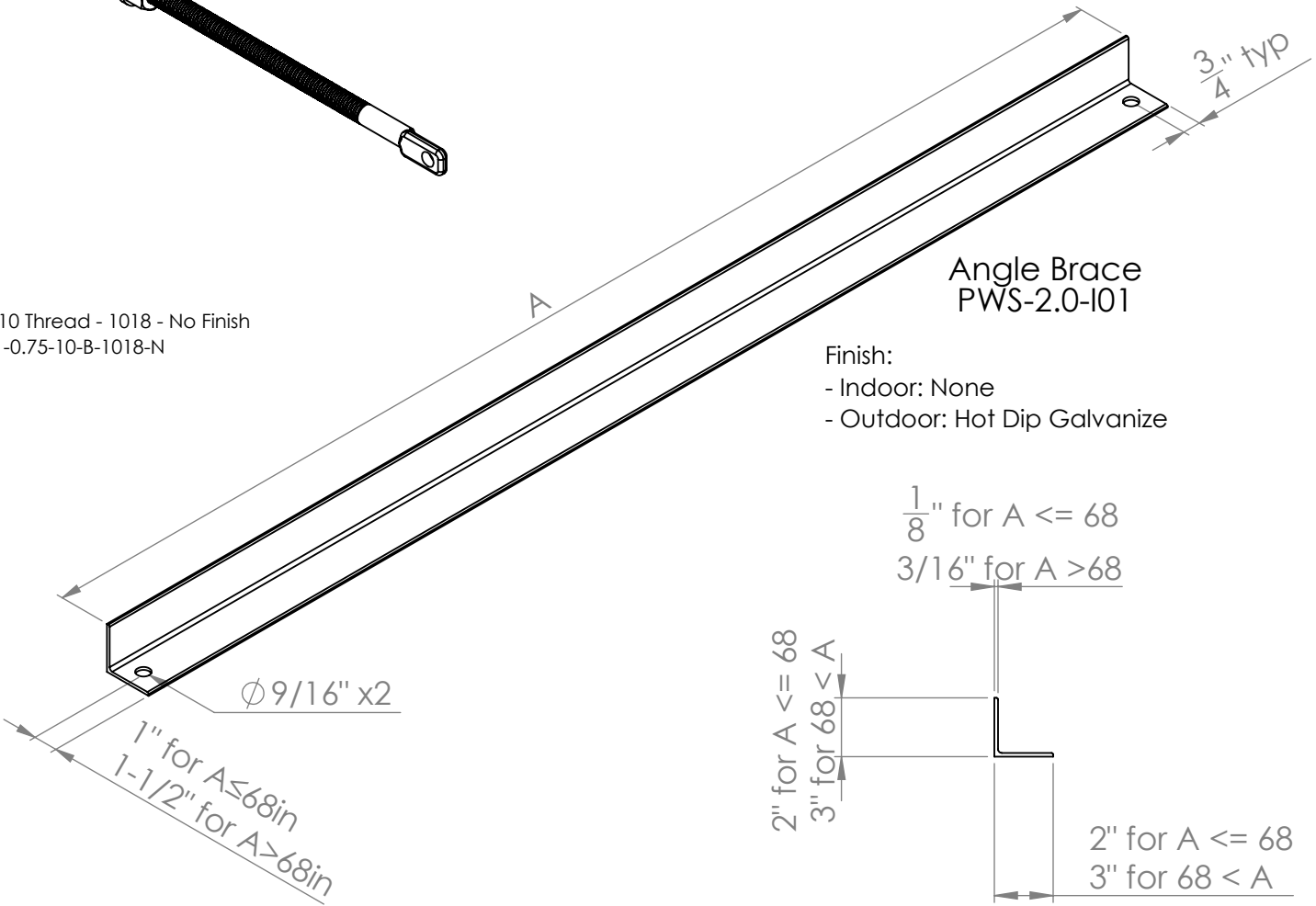
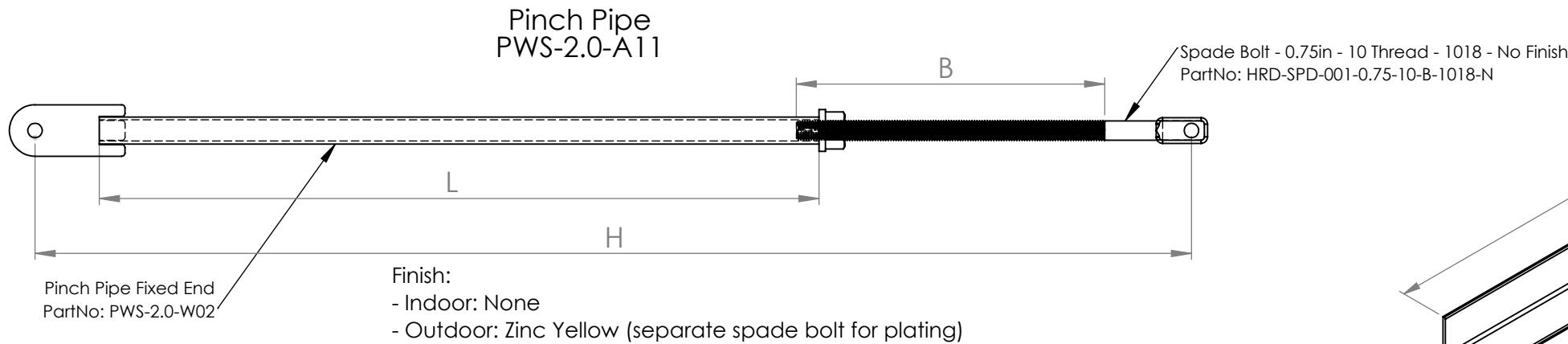
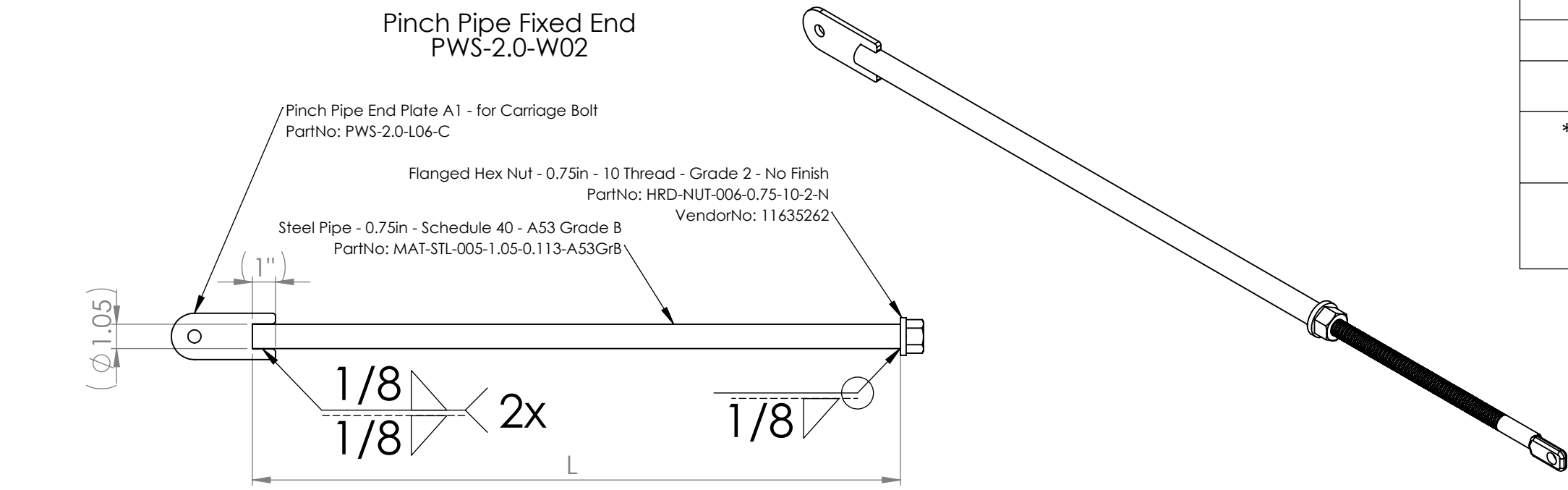


Tie In to Tieback Bracket - for HSS 4x4

Notes:
1. For rungs and tie in to profiles, use any hole on any Profile Module.

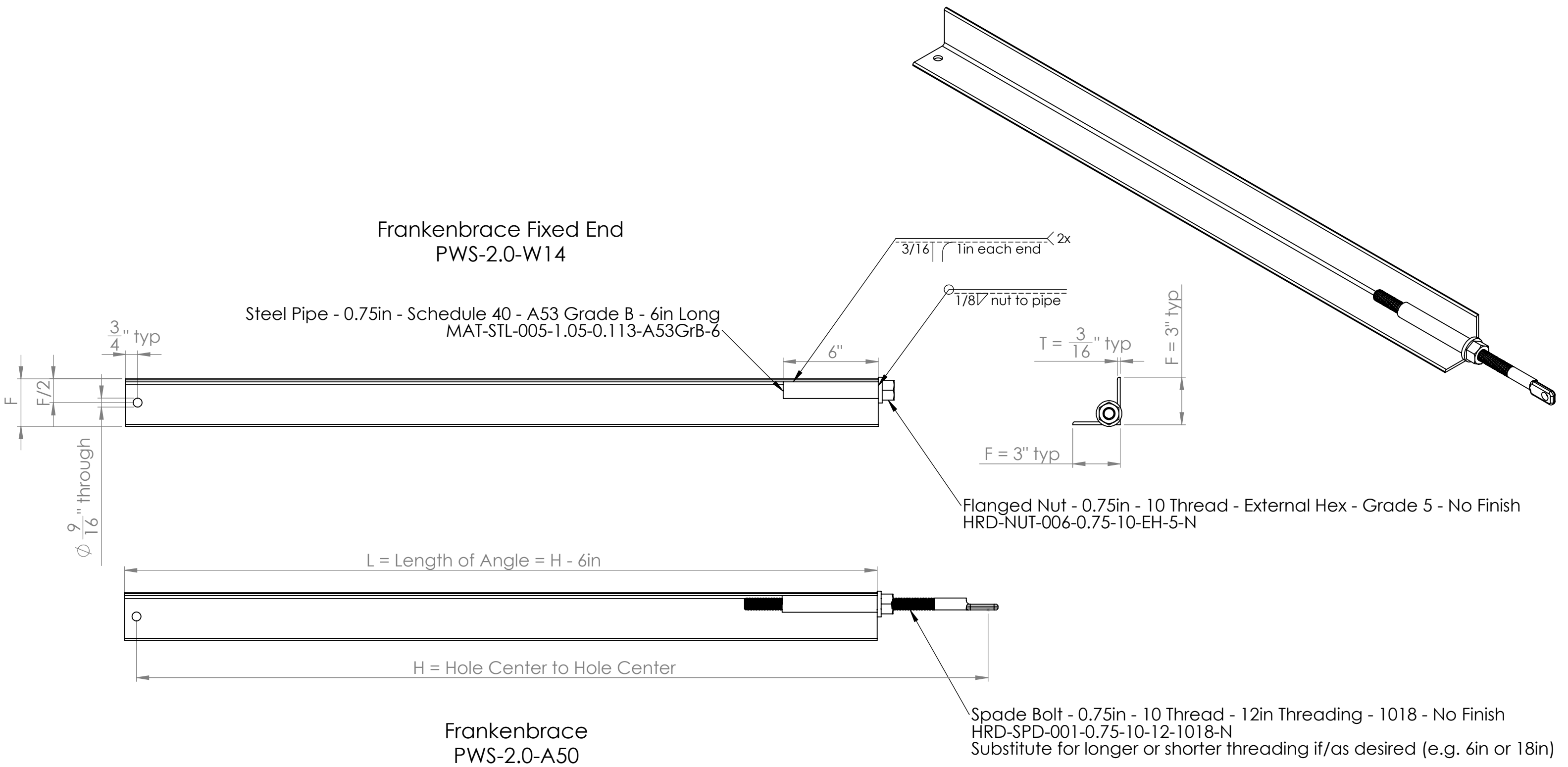
Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5				FINISH:				Deburr and break sharp edges (if applicable)				DO NOT SCALE DRAWING				REVISION					
TITLE: Panelized 2.0 Typicals - Tie Off Points																					
DRAWN												DWG NO.				P2-0.12				B	
CHK'D																					
APPV'D																					
MFG																					
Q.A								MATERIAL:													
								WEIGHT:				SCALE: 1:5				SHEET 17 OF 19					

Angle Braces	
Max Length	Angle Size
67.5in (66in hole to hole)	L2x2x1/8
109.5in (108in hole to hole)	L3x3x3/16
* Pinch pipes up to 36in hole to hole may be used as compression members	
* Angles may be substituted for pinch pipes in any locations with max lengths noted above	



S = Pinch Pipe Size	H = Hole to Hole (in)		L = Length of Pipe (in)	B = Bolt Thread Length (in)
	Min	Max		
SA	13	17	6	6
SB	15	22	8	
SC	19	29	12	
SD	27	37	20	12
SE	35	45	28	
SF	43	53	36	
SG	51	61	44	
SH	59	69	52	
SI	67	77	60	
SJ	75	85	68	
SK	83	93	76	
SL	91	101	84	

Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH:		Deburr and break sharp edges (if applicable)		DO NOT SCALE DRAWING		REVISION			
		NAME	SIGNATURE	DATE			TITLE: Panelized 2.0 Typicals - Bracing Members 1		DWG NO. P2-0.13		B	
DRAWN												
CHK'D												
APPV'D												
MFG												
Q.A												
					MATERIAL:							
					WEIGHT: 5.209772		SCALE: 1:6		SHEET 18 OF 19			

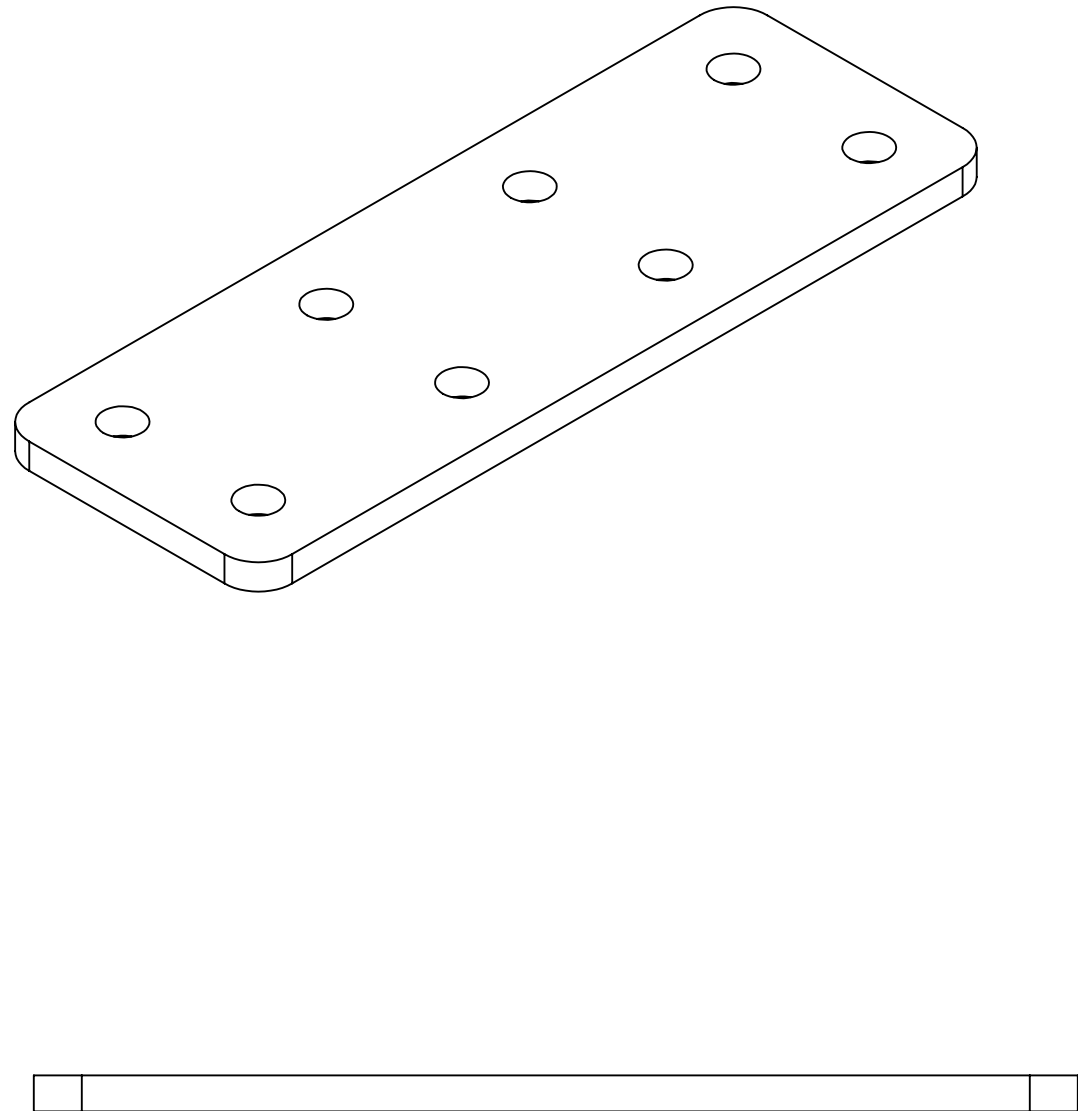
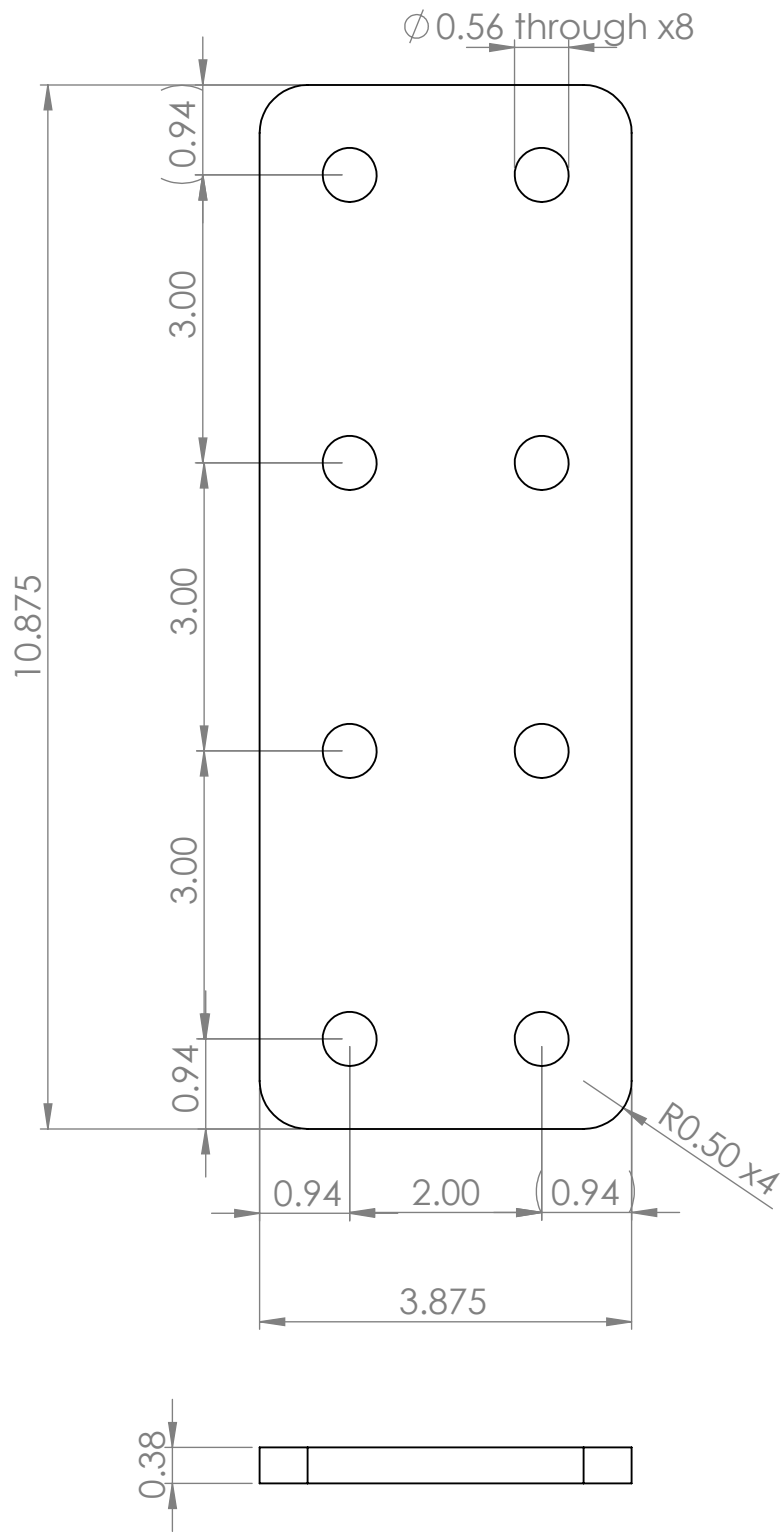


- Notes:
1. Use this member type if/when Bar Belays require double bracing, articulated profiles require out-of-plane connections, and anywhere else where a larger (yet still adjustable) member is needed.
 2. The steel angle forming the main body of this member is shown as L3x3x0.1875in by default. If/when required by engineering for specific members on a given project, that may be upsized (for exmample, to L4x4x0.25in).

Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: Indoor: None Outdoor: Zinc Yellow			Deburr and break sharp edges (if applicable)	DO NOT SCALE DRAWING	REVISION
NAME	SIGNATURE	DATE					TITLE: Panelized 2.0 Typicals - Bracing Members 2	
DRAWN								
CHK'D								
APPV'D								
MFG								
Q.A							DWG NO.	
						MATERIAL: As Noted	P2-0.14	
							SCALE: 1:6	
						WEIGHT:	SHEET 19 OF 19	

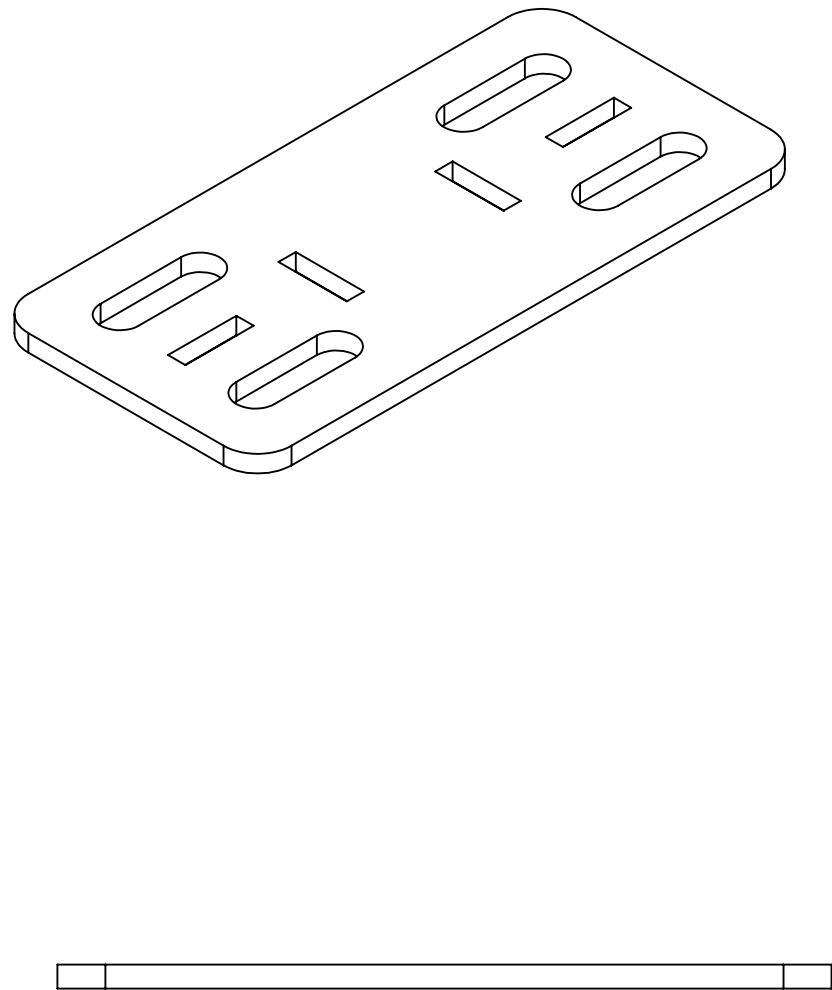
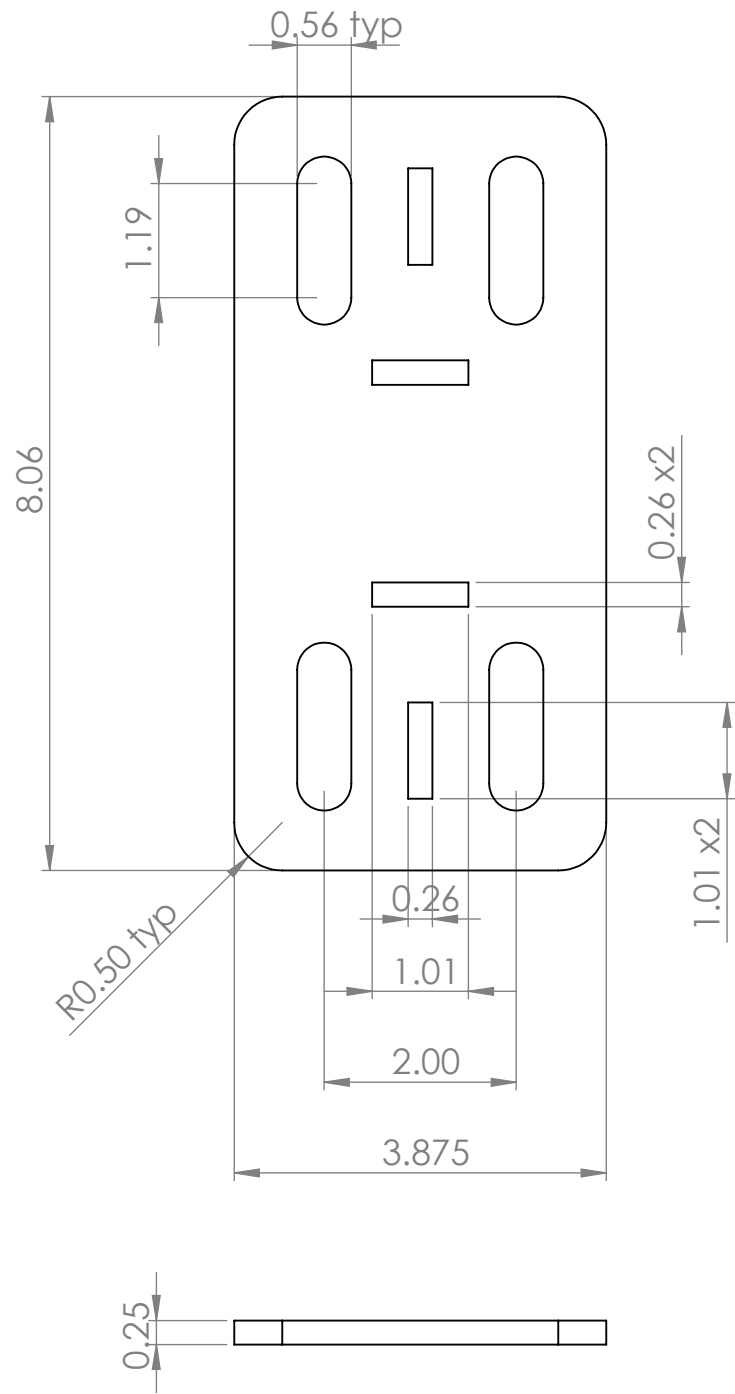
Panelized 2.0

Lasered Parts



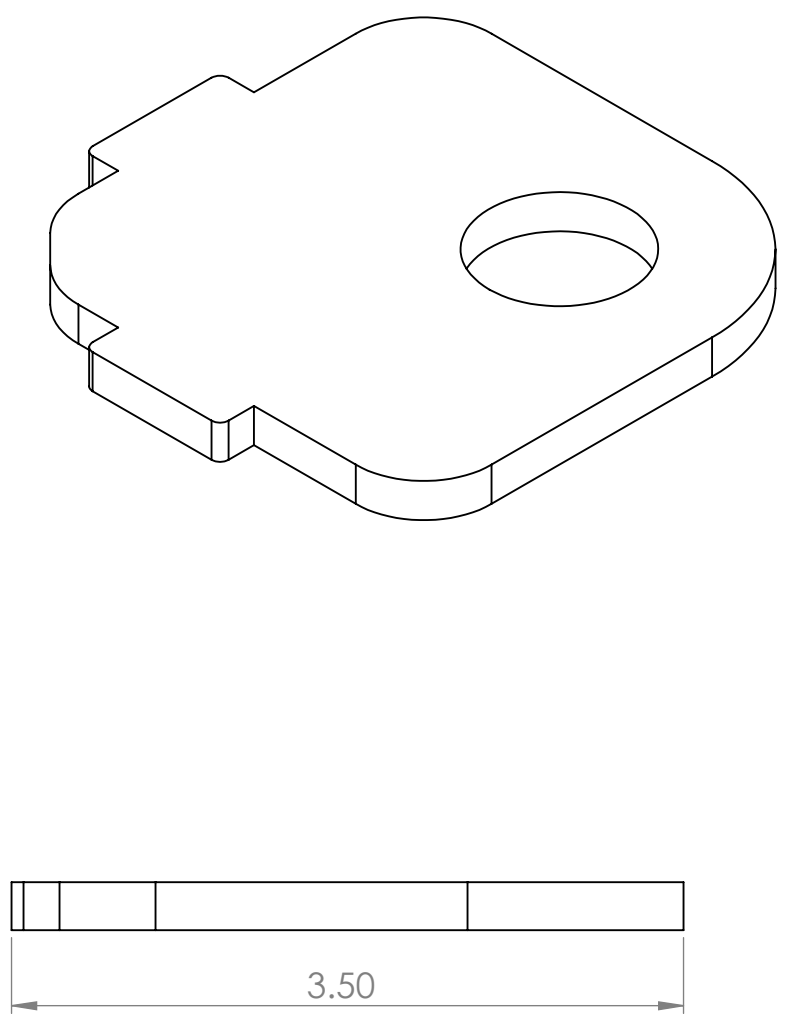
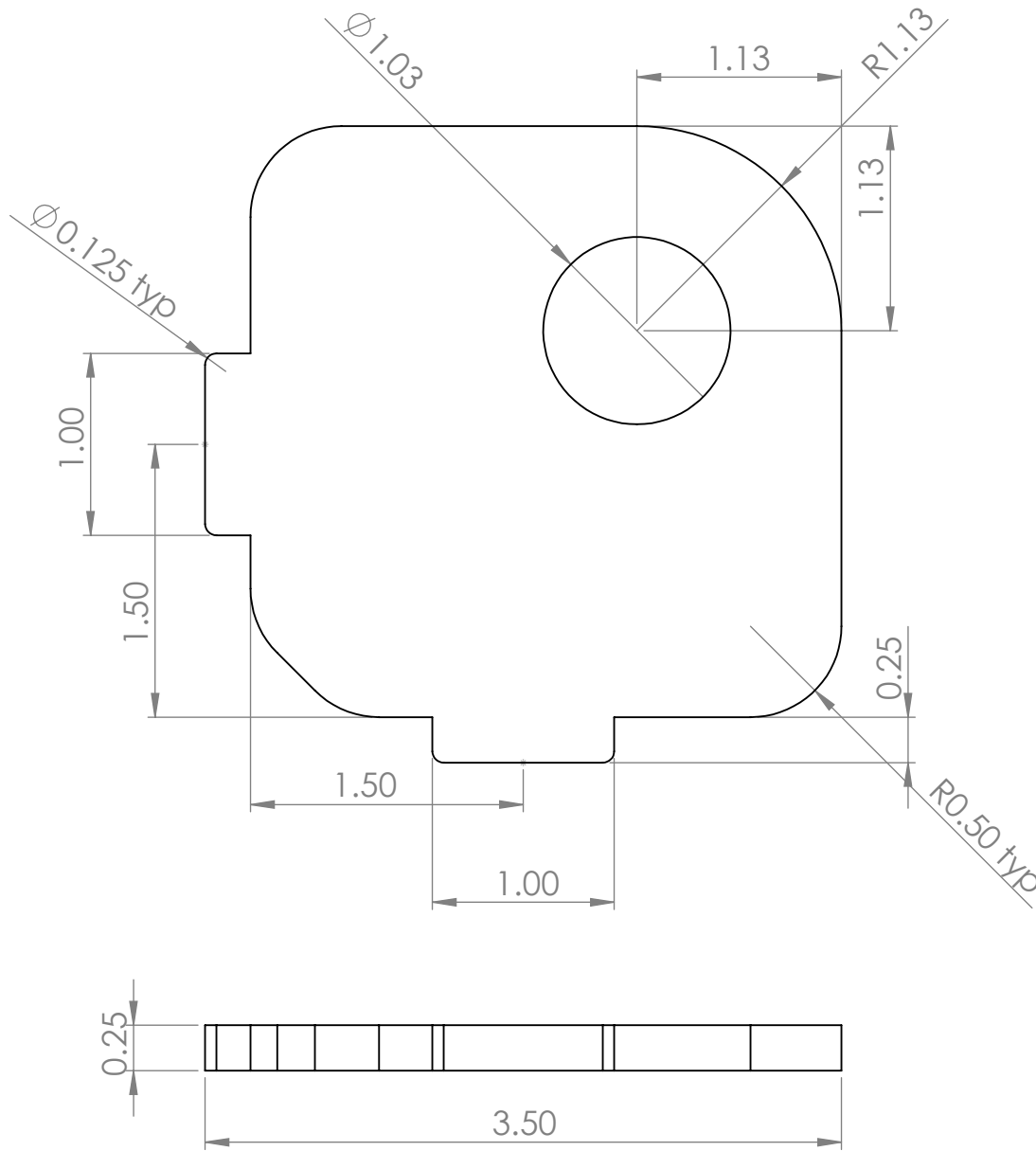
- Notes:
1. Manufacture from customer-supplied data (e.g. laser-cut from dxf file).
 2. Deburr and break all sharp edges.

Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: None			Deburr and break sharp edges (if applicable)	DO NOT SCALE DRAWING	REVISION E
	NAME	SIGNATURE	DATE				TITLE: Straight Splice Plate	
DRAWN	Mark Hemphil		11/9/2022					
CHK'D								
APPV'D								
MFG								
Q.A						MATERIAL: ASTM A572 Grade 50 Steel	DWG NO. PWS-2.0-L01	B
						WEIGHT: 4.247392	SCALE: 1:2	SHEET 1 OF 1



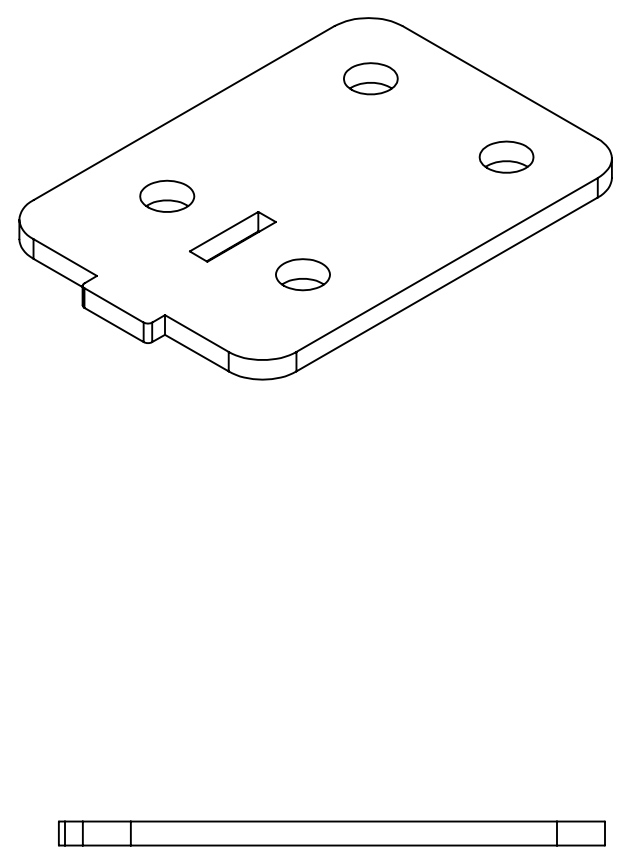
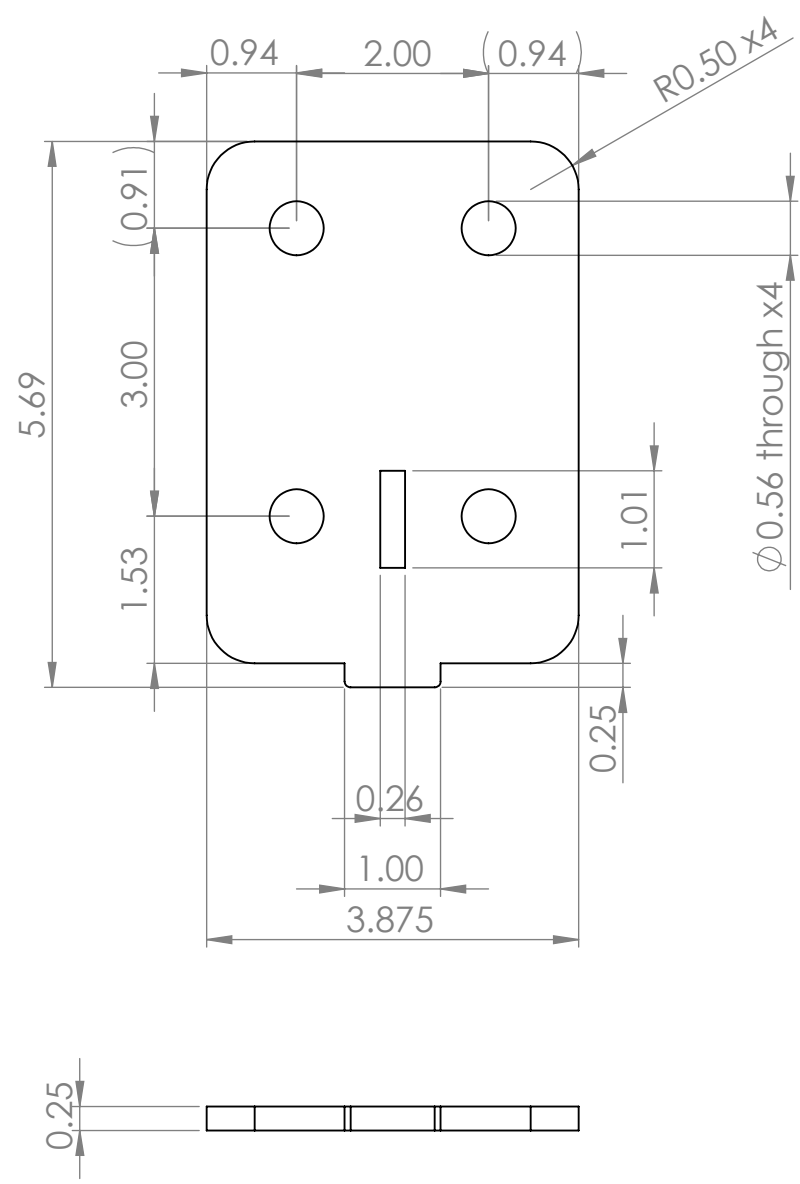
- Notes:
1. Manufacture from customer-supplied data (e.g. laser-cut from dxf file).
 2. Deburr and break all sharp edges.

Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: None			Deburr and break sharp edges (if applicable)	DO NOT SCALE DRAWING	REVISION C
	NAME	SIGNATURE	DATE				TITLE: Base Plate - Profile	
DRAWN	Mark Hemphil		11/9/2022					
CHK'D								
APPV'D								
MFG								
Q.A						MATERIAL: ASTM A36 Steel	DWG NO. PWS-2.0-L03-P	B
						WEIGHT: 1.867259	SCALE: 1:2	SHEET 1 OF 6



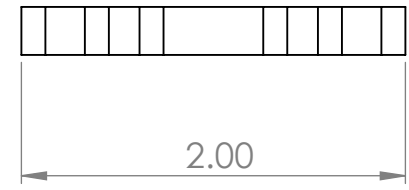
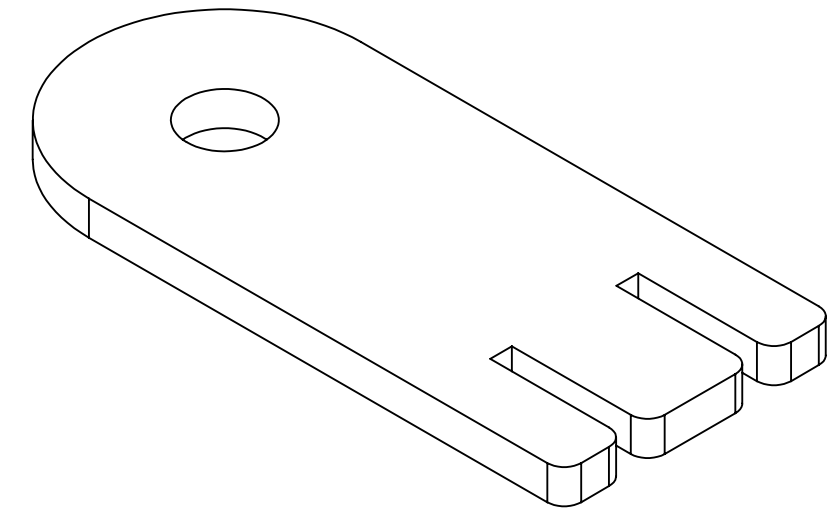
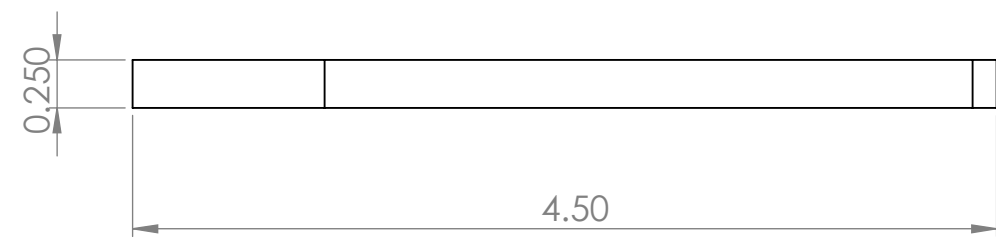
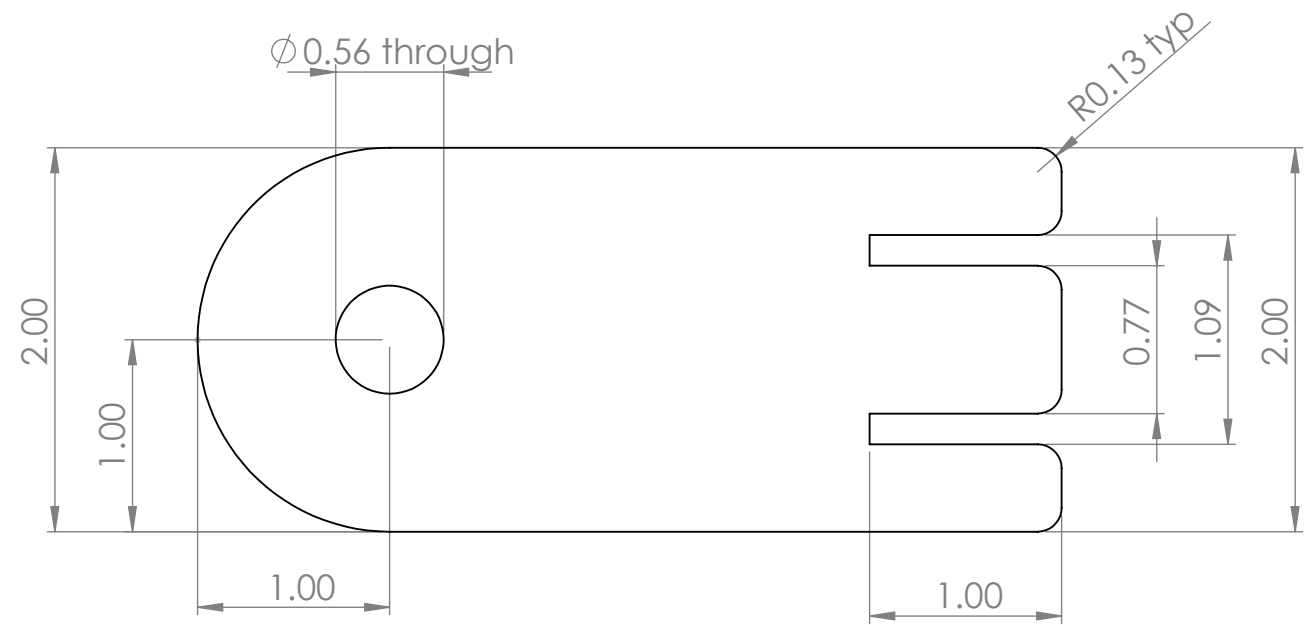
- Notes:
1. Manufacture from customer-supplied data (e.g. laser-cut from dxf file).
 2. Deburr and break all sharp edges.

Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: None			Deburr and break sharp edges (if applicable)	DO NOT SCALE DRAWING	REVISION D
	NAME	SIGNATURE	DATE				TITLE: Bracket Gusset	
DRAWN	Mark Hemphil		2/9/2023					
CHK'D								
APPV'D								
MFG								
Q.A						MATERIAL: ASTM A36 Steel	DWG NO. PWS-2.0-L04	B
						WEIGHT: 0.688526	SCALE: 1:1	SHEET 1 OF 1



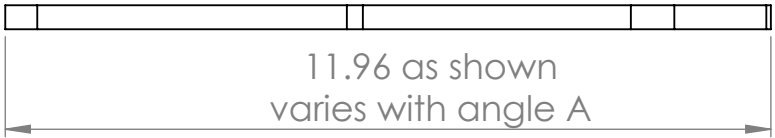
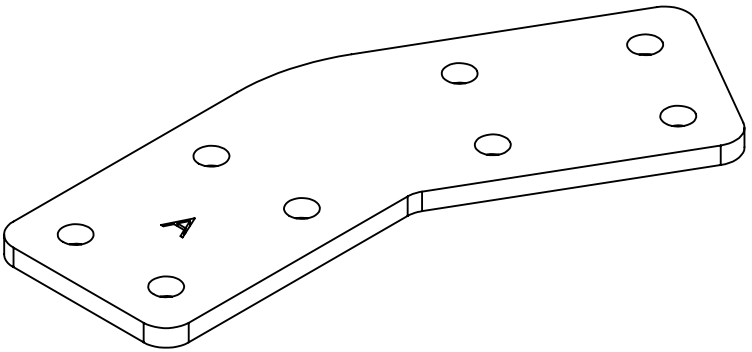
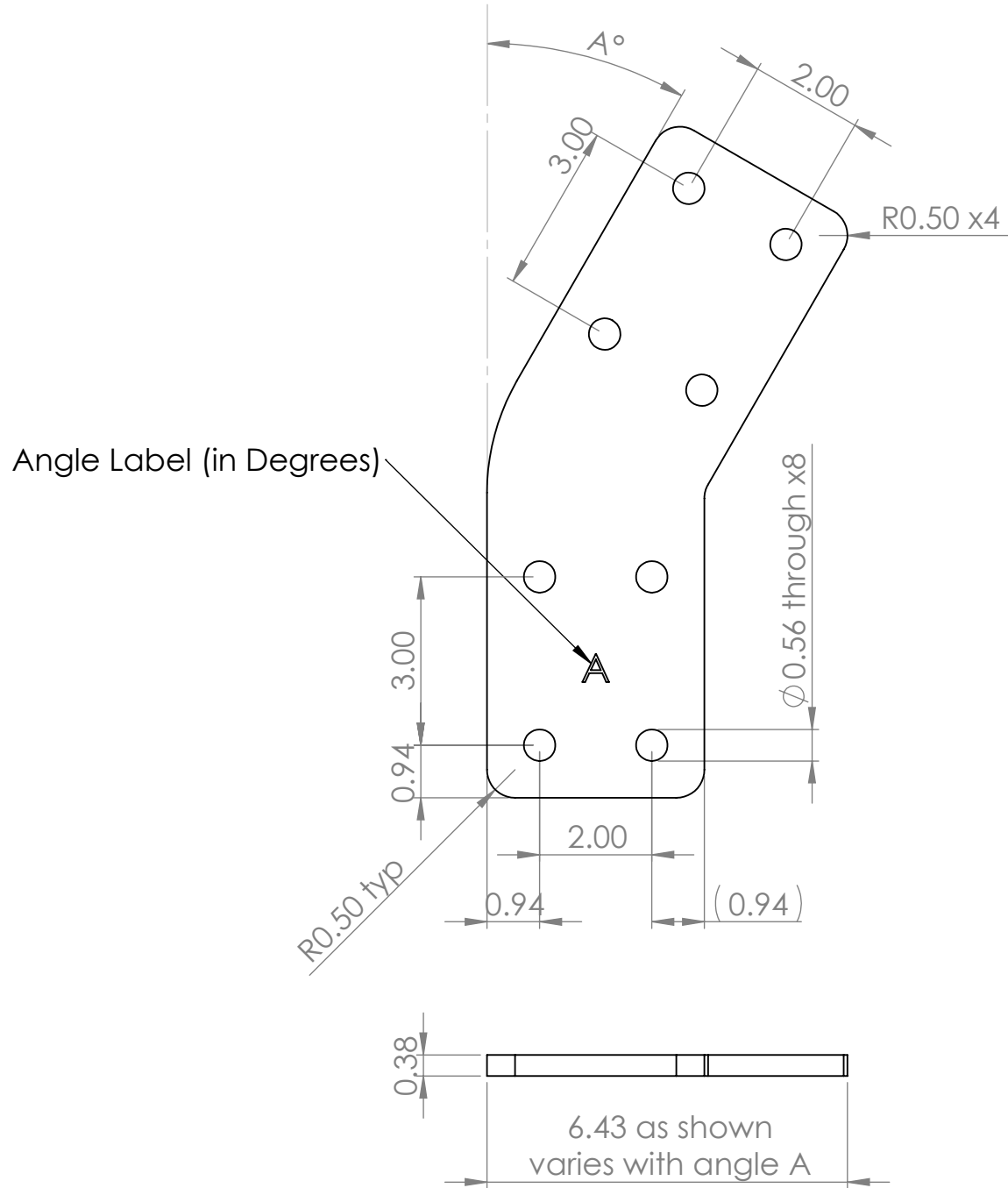
- Notes:
1. Manufacture from customer-supplied data (e.g. laser-cut from dxf file).
 2. Deburr and break all sharp edges.

Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: None			Deburr and break sharp edges (if applicable)	DO NOT SCALE DRAWING	REVISION C
	NAME	SIGNATURE	DATE				TITLE: Profile Receiver	
DRAWN	Mark Hemphil		1/24/2023					
CHK'D								
APPV'D								
MFG								
Q.A						MATERIAL: ASTM A36 Steel	DWG NO. PWS-2.0-L05	B
						WEIGHT: 1.407178	SCALE: 1:2	SHEET 1 OF 1



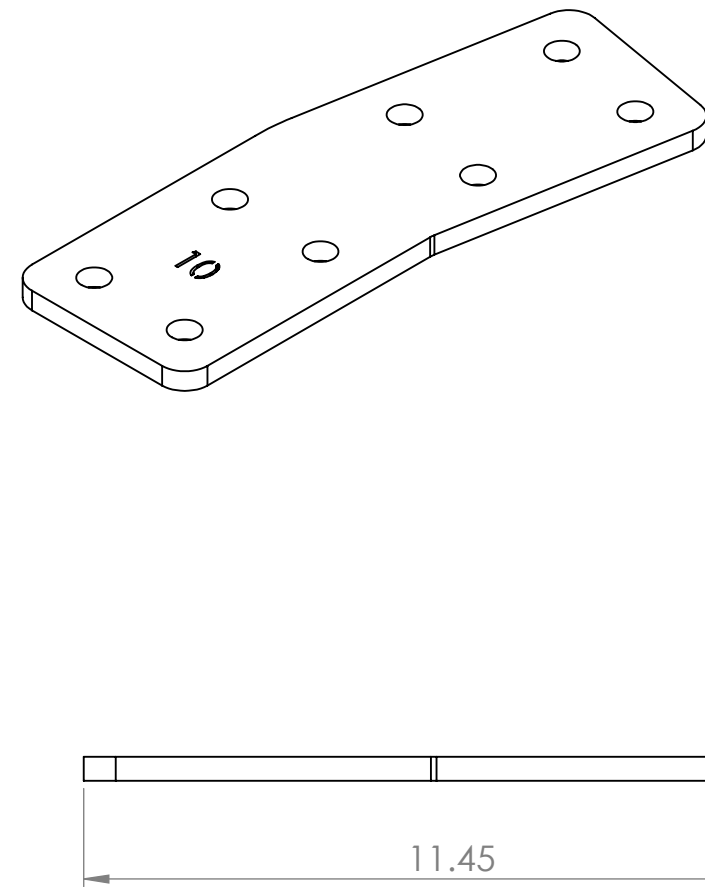
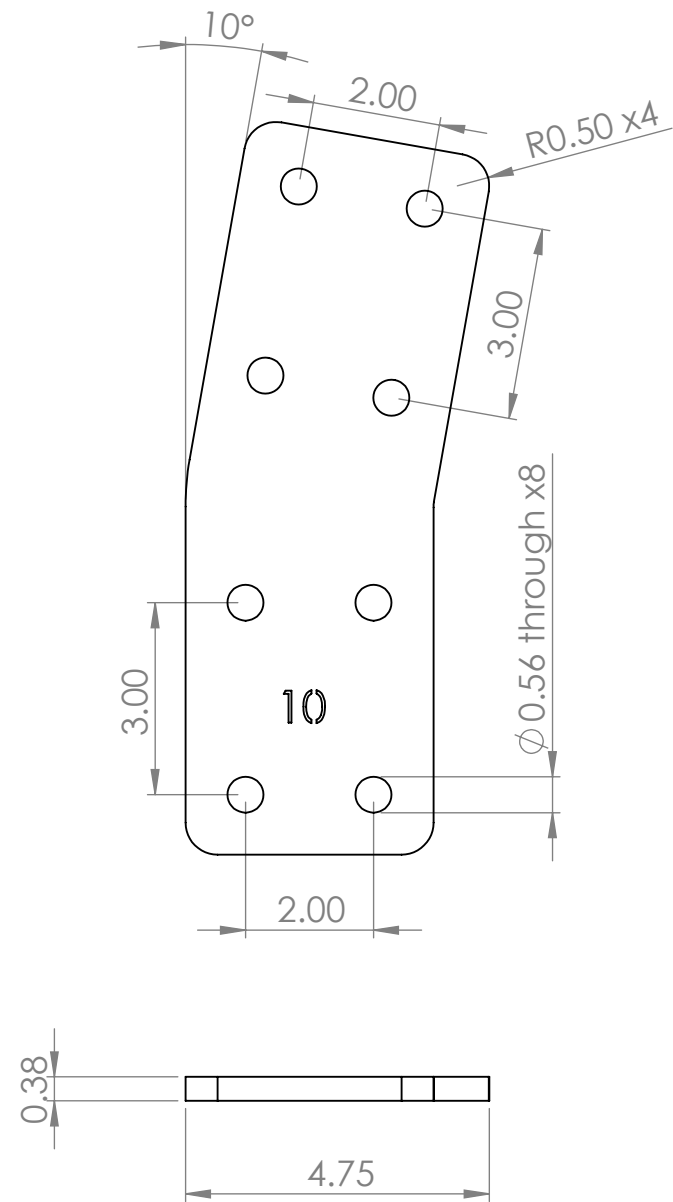
- Notes:
1. Manufacture from customer-supplied data (e.g. laser-cut from dxf file).
 2. Deburr and break all sharp edges.

Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: None			Deburr and break sharp edges (if applicable)	DO NOT SCALE DRAWING		REVISION G			
	NAME	SIGNATURE	DATE				TITLE: Pinch Pipe End Plate A1					
DRAWN	Mark Hemphil											
CHK'D												
APPV'D												
MFG												
Q.A												
						MATERIAL: ASTM A36 Steel	DWG NO. PWS-2.0-L06				B	
						WEIGHT: 0.57	SCALE: 1:1			SHEET 1 OF 1		



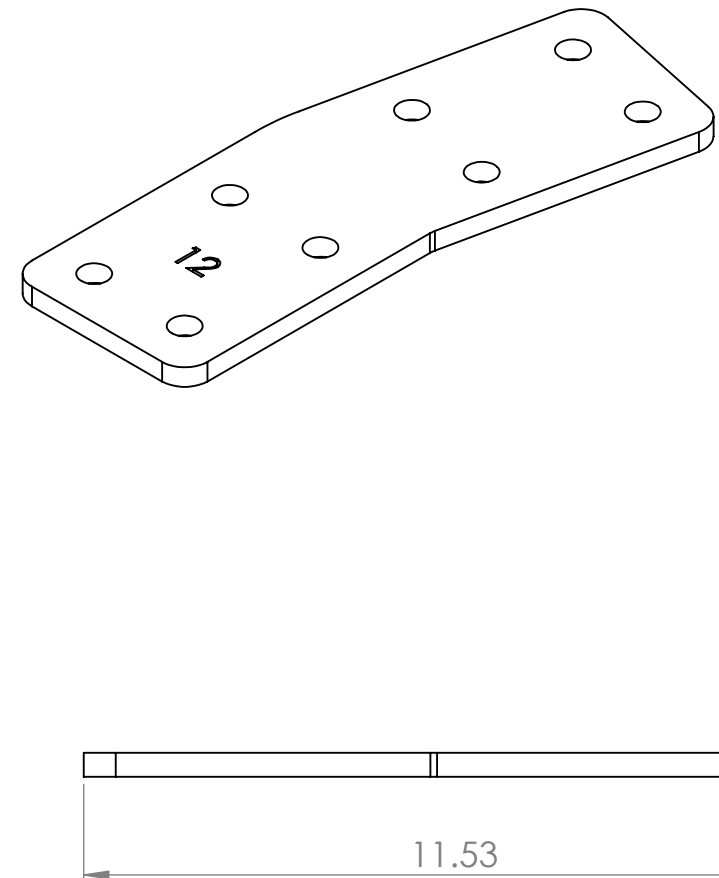
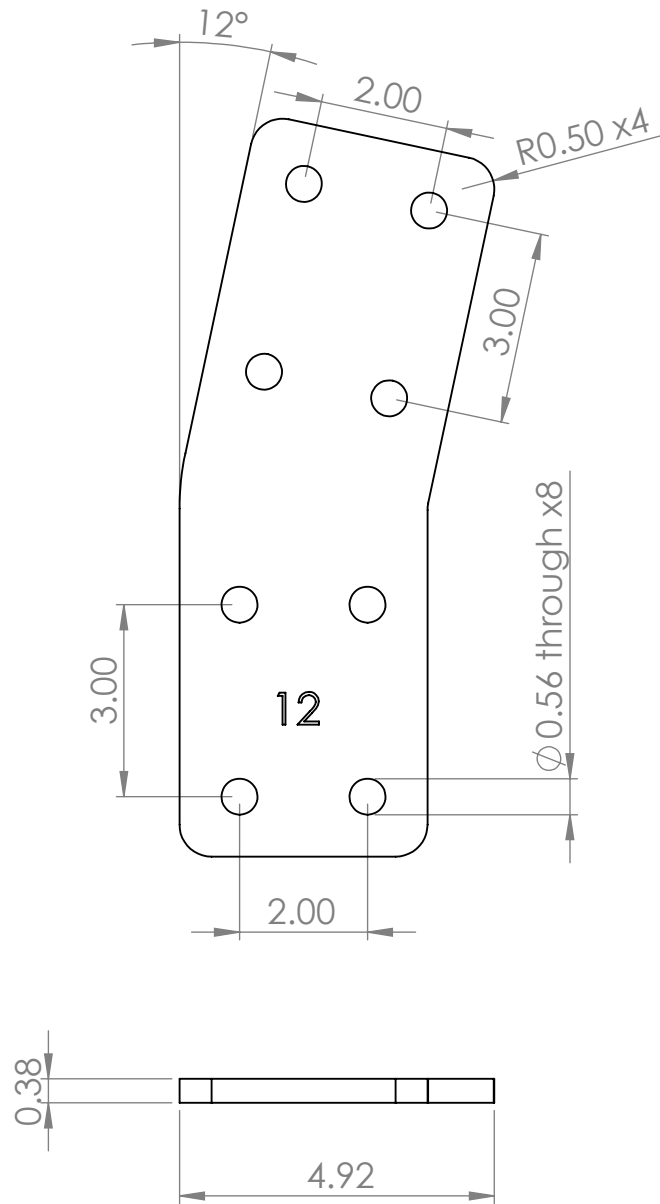
- Notes:
1. A complete part number is of the form PWS-2.0-L08-A, where A is the angle (relative to straight).
 2. Manufacture from customer-supplied data (e.g. laser- or plasma-cut from dwg or dxf file).
 3. Deburr and break all sharp edges.

Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: None			Deburr and break sharp edges (if applicable)			DO NOT SCALE DRAWING			REVISION D		
									TITLE: Articulated Splice Plate					
NAME			SIGNATURE			DATE								
DRAWN			Mark Hemphil			11/9/2022								
CHK'D														
APPV'D														
MFG														
Q.A						MATERIAL:			DWG NO.			B		
						ASTM A572 Grade 50 Steel			PWS-2.0-L08-A					
						WEIGHT: 4.684955			SCALE: 1:3			SHEET 1 OF 12		



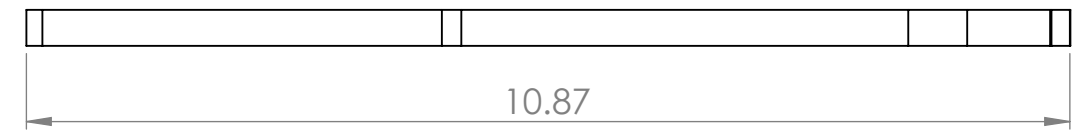
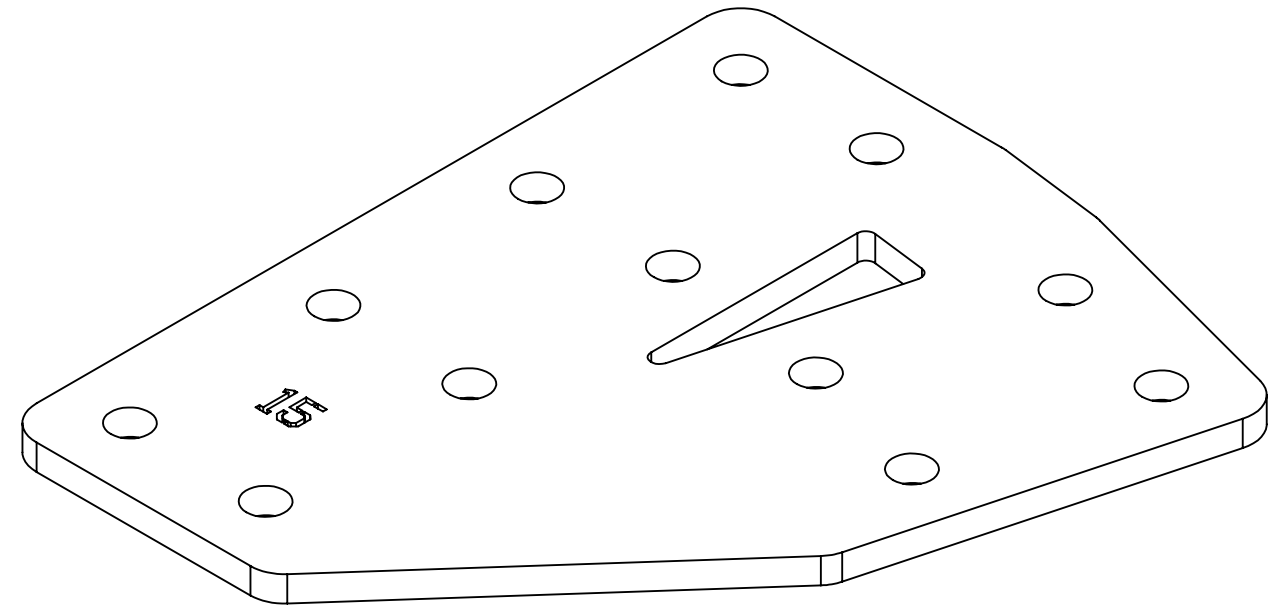
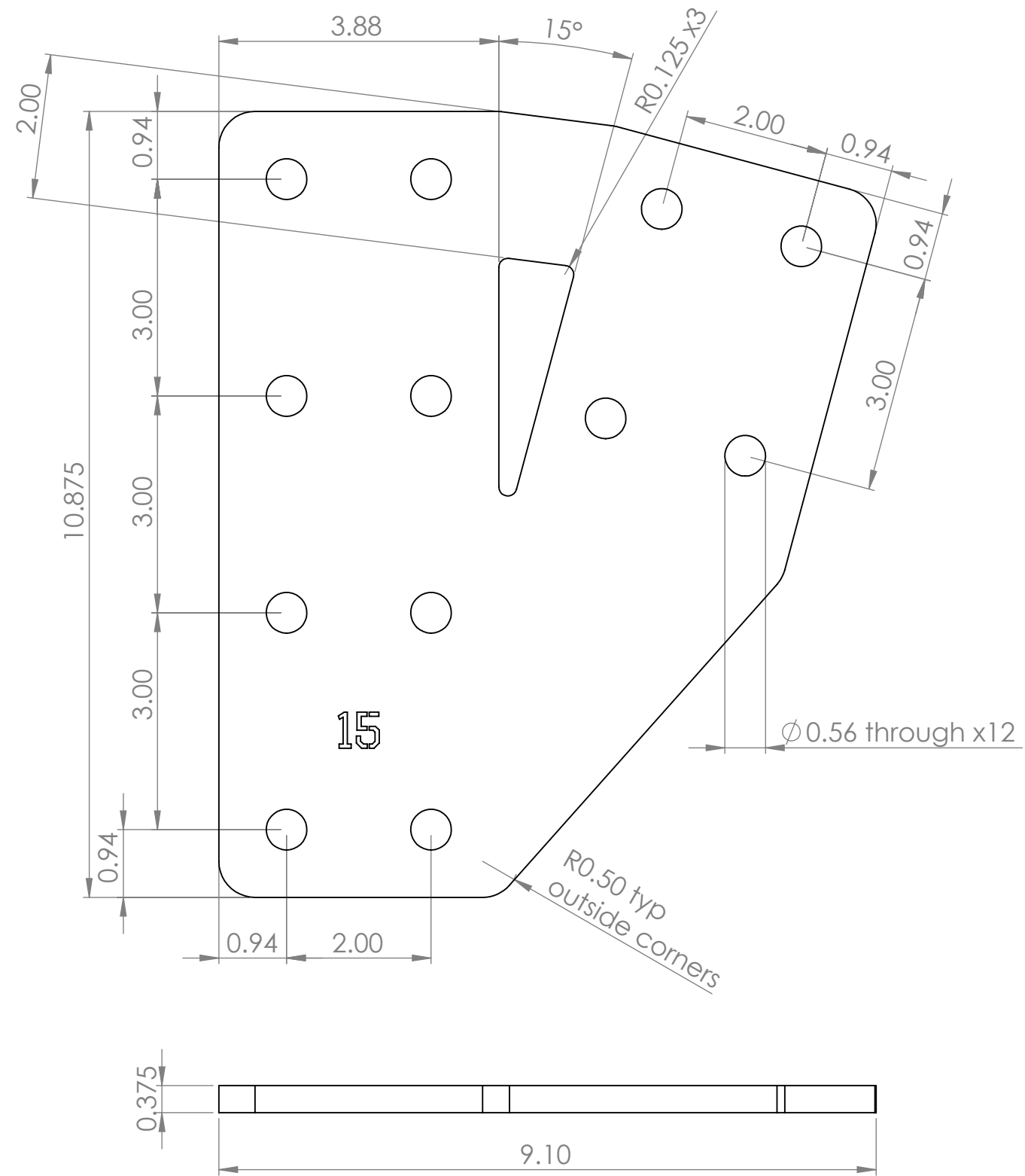
- Notes:
- 1. Manufacture from customer-supplied data (e.g. laser-cut from dxf file).
 - 2. Deburr and break all sharp edges.

Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: None			Deburr and break sharp edges (if applicable)			DO NOT SCALE DRAWING			REVISION D					
			NAME			SIGNATURE			DATE						TITLE: Articulated Splice Plate - 10 Degrees		
DRAWN			Mark Hemphil						11/9/2022								
CHK'D																	
APPV'D																	
MFG																	
Q.A																	
									MATERIAL:			DWG NO.			B		
									ASTM A572 Grade 50 Steel			PWS-2.0-L08-10					
												SCALE: 1:3			SHEET 4 OF 12		
									WEIGHT: 4.404211								



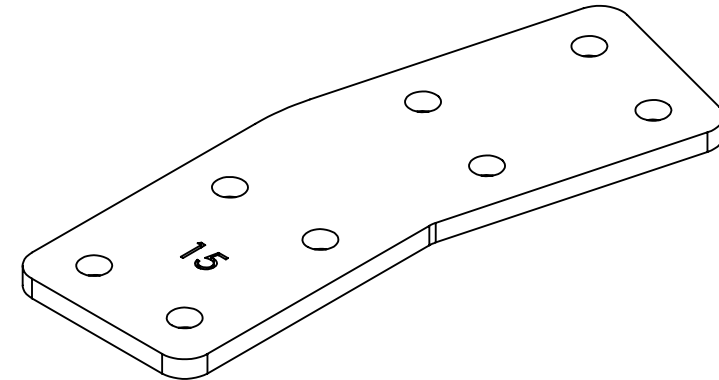
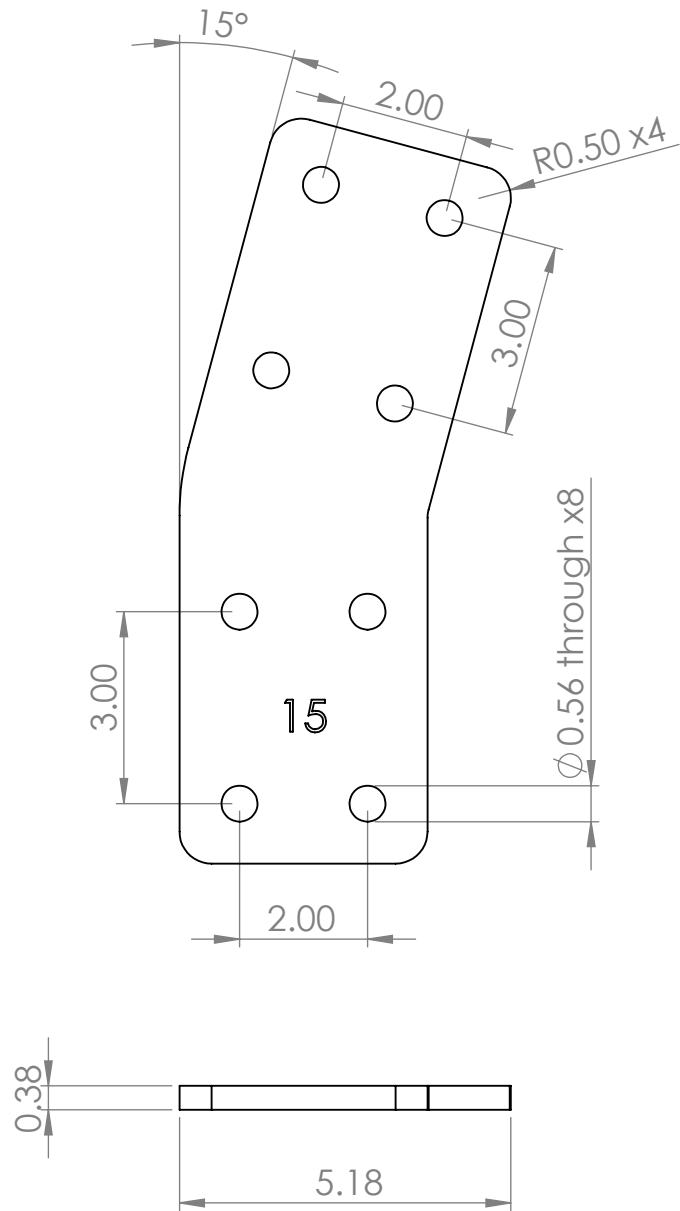
- Notes:
1. Manufacture from customer-supplied data (e.g. laser-cut from dxf file).
 2. Deburr and break all sharp edges.

Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: None			Deburr and break sharp edges (if applicable)	DO NOT SCALE DRAWING	REVISION	D
	NAME	SIGNATURE	DATE				TITLE: Articulated Splice Plate - 12 Degrees		
DRAWN	Mark Hemphil		11/9/2022						
CHK'D									
APPV'D									
MFG									
Q.A							DWG NO.		
						MATERIAL: ASTM A572 Grade 50 Steel	PWS-2.0-L08-12		
						WEIGHT: 4.431842	SCALE: 1:3	SHEET 5 OF 12	



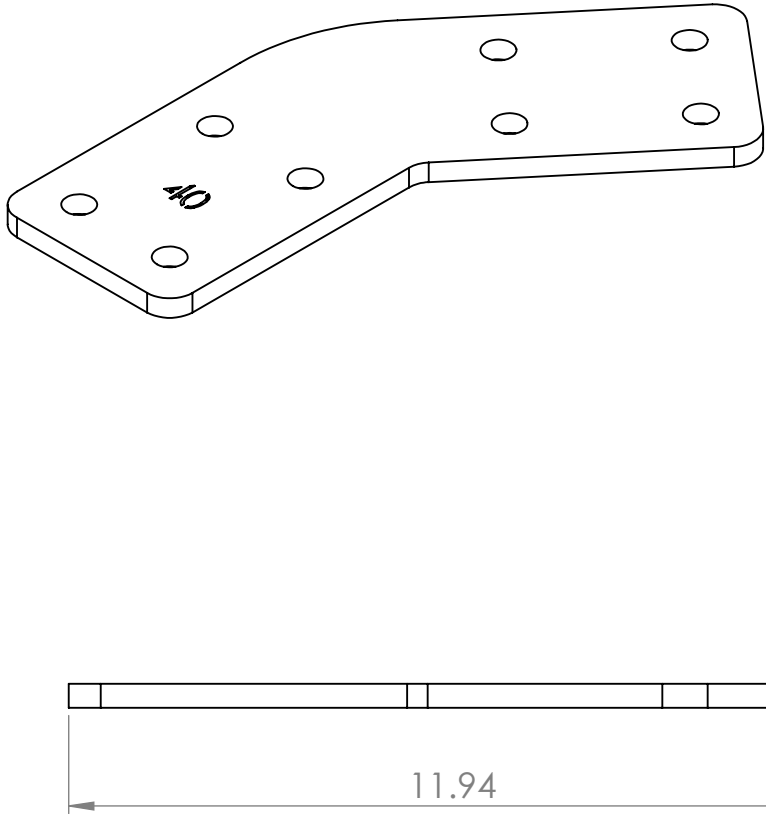
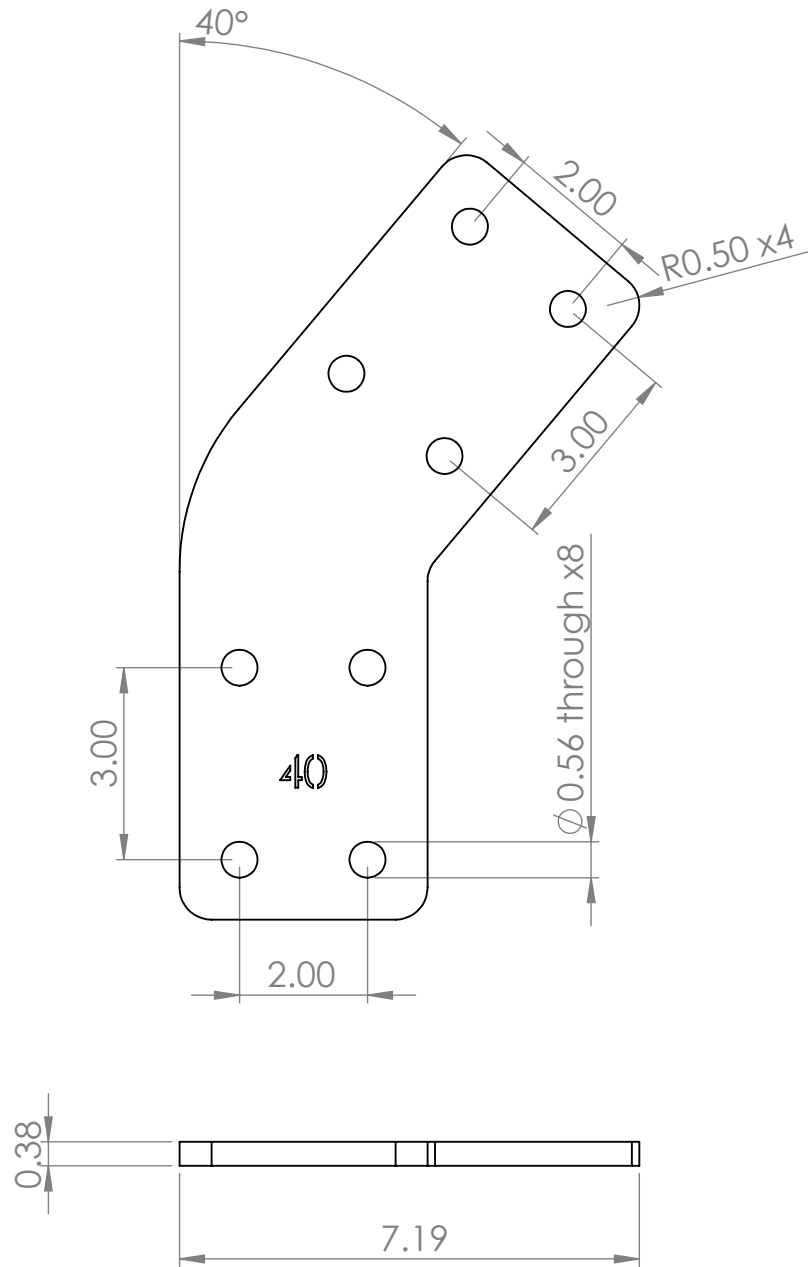
- Notes:
1. Manufacture from customer-supplied data (e.g. laser-cut from DXF file).
 2. Deburr and break all sharp edges.

Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: None			Deburr and break sharp edges (if applicable)	DO NOT SCALE DRAWING	REVISION	B
							TITLE: Branching Articulated Splice Plate - 15 Degrees		
DRAWN	Mark Hemphill	SIGNATURE	DATE				DWG NO.	PWS-2.0-L38-15	B
CHK'D							MATERIAL: ASTM A572 Grade 50 Steel		
APPV'D									
MFG							WEIGHT: 7.808103		
Q.A									
							SCALE: 1:2		
							SHEET 1 OF 1		



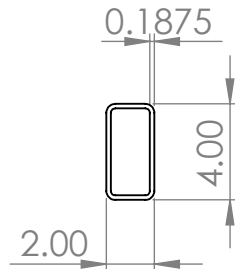
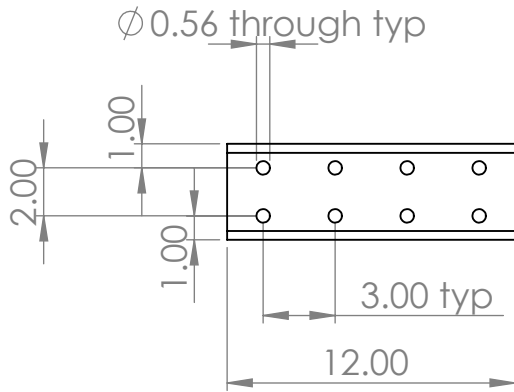
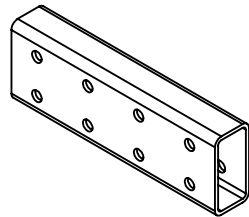
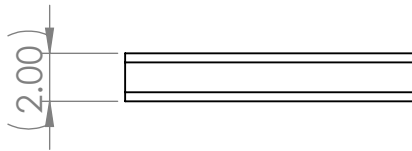
- Notes:
1. Manufacture from customer-supplied data (e.g. laser-cut from dxf file).
 2. Deburr and break all sharp edges.

Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: None			Deburr and break sharp edges (if applicable)			DO NOT SCALE DRAWING			REVISION D					
			NAME			SIGNATURE			DATE						TITLE: Articulated Splice Plate - 15 Degrees		
DRAWN			Mark Hemphil						11/9/2022								
CHK'D																	
APPV'D																	
MFG																	
Q.A																	
									MATERIAL:			DWG NO.			B		
									ASTM A572 Grade 50 Steel			PWS-2.0-L08-15					
												SCALE: 1:3			SHEET 6 OF 12		
									WEIGHT: 4.473550								



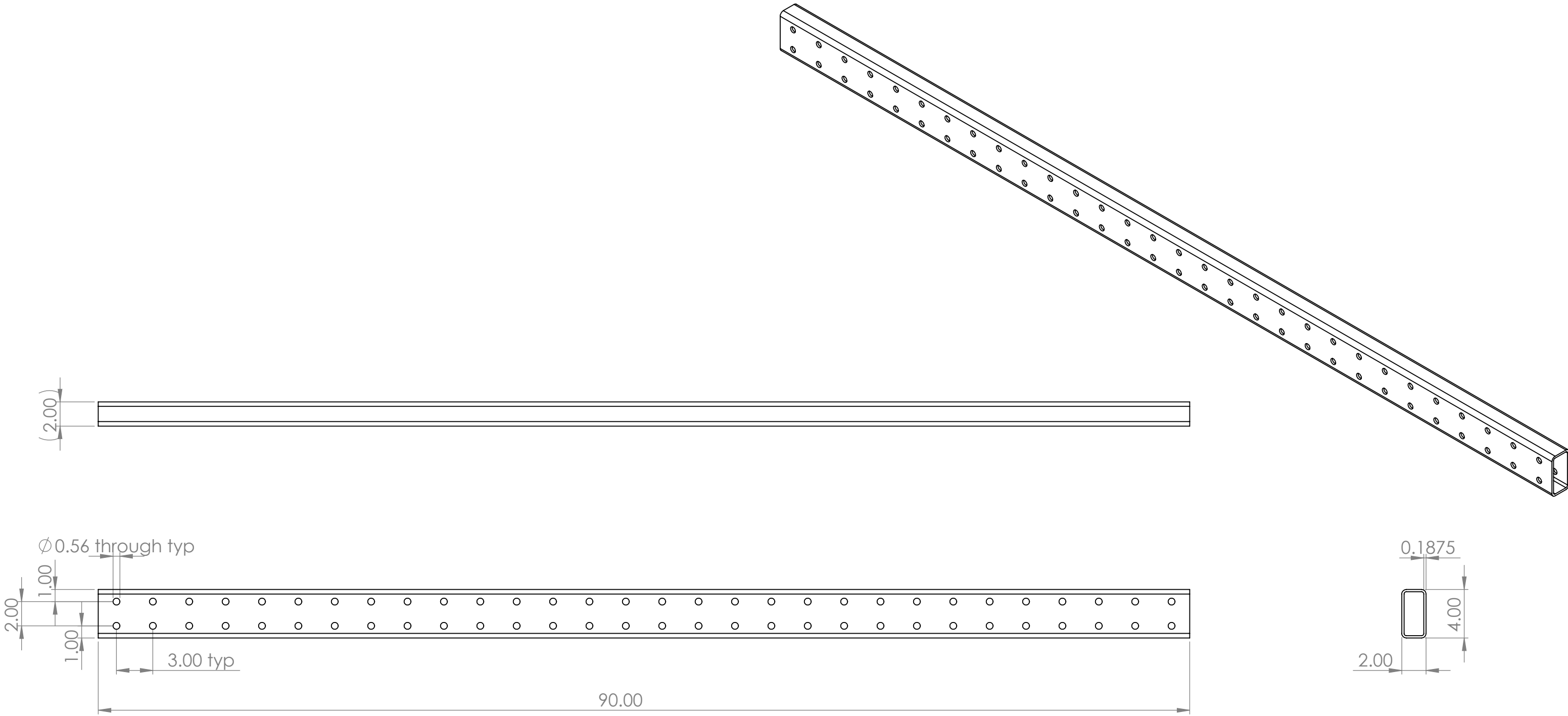
- Notes:
1. Manufacture from customer-supplied data (e.g. laser-cut from dxf file).
 2. Deburr and break all sharp edges.

Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: None			Deburr and break sharp edges (if applicable)	DO NOT SCALE DRAWING		REVISION D		
	NAME	SIGNATURE	DATE				TITLE: Articulated Splice Plate - 40 Degrees				
DRAWN	Mark Hemphil		11/9/2022								
CHK'D											
APPV'D											
MFG											
Q.A					MATERIAL: ASTM A572 Grade 50 Steel		DWG NO. PWS-2.0-L08-40		B		
						WEIGHT: 4.820195		SCALE: 1:3		SHEET 11 OF 12	



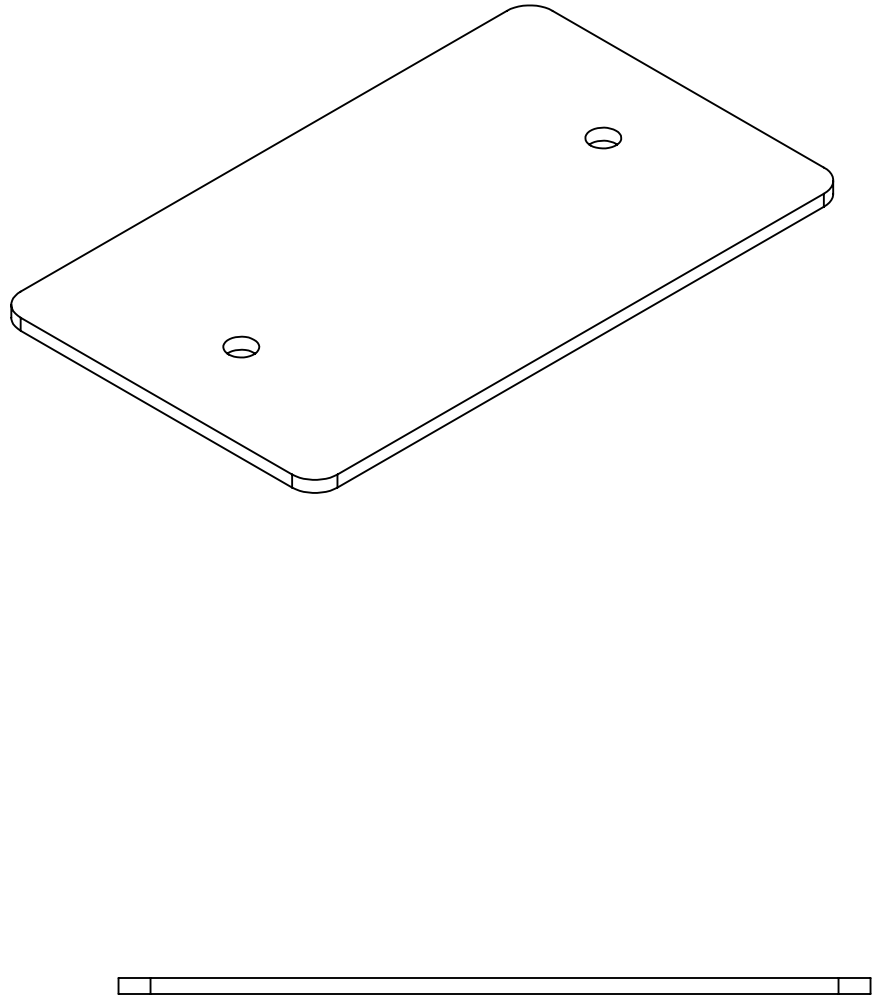
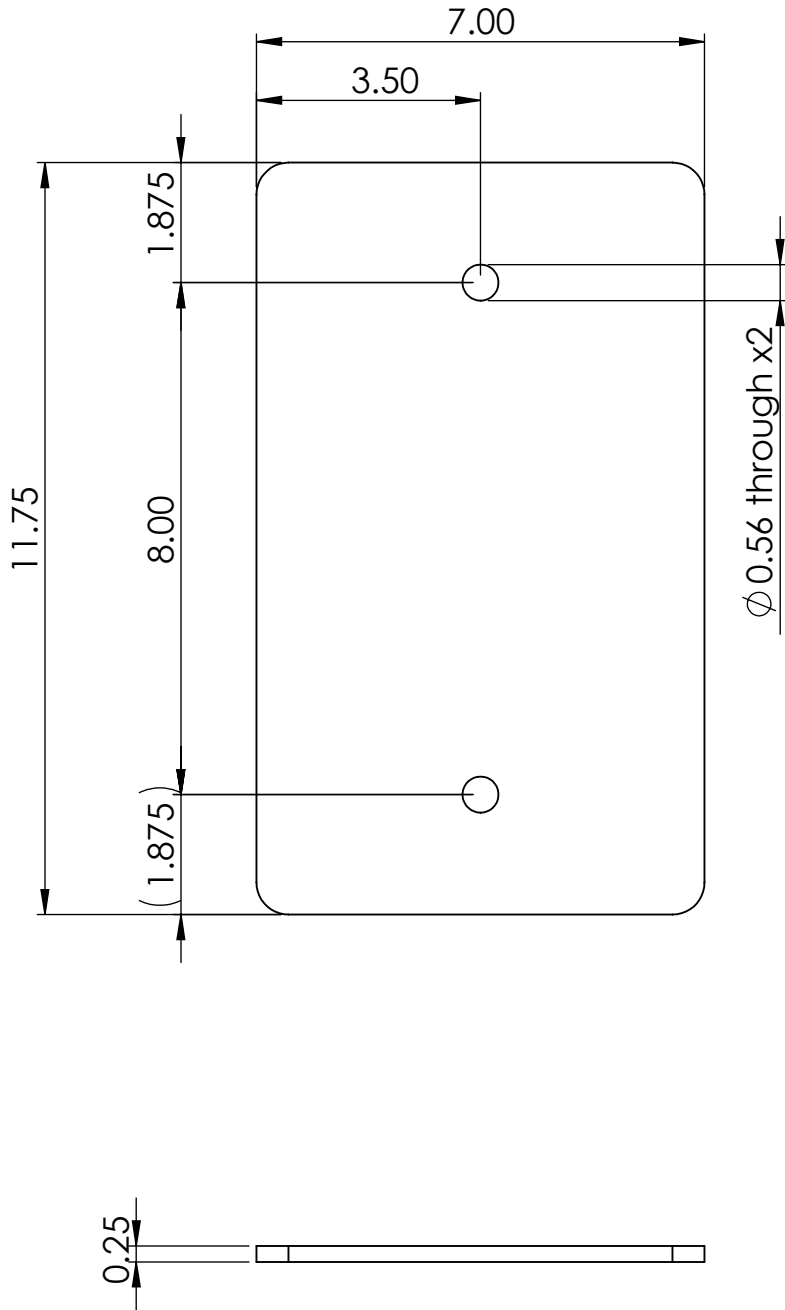
Notes:
1. Manufacture from customer supplied data (e.g. tube laser from Solidworks part file).

Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: Indoor: None Outdoor: Hot Dip Galvanize			Deburr and break sharp edges (if applicable)			DO NOT SCALE DRAWING			REVISION																	
												TITLE: Profile Module - 12in Long																	
	NAME		SIGNATURE		DATE																								
DRAWN	Mark Hemphil				1/27/2023																								
CHK'D																													
APPV'D																													
MFG																													
Q.A																													
												MATERIAL: ASTM A500 Grade B Steel						DWG NO. PWS-2.0-L09-12						B					
												WEIGHT: 6.659068						SCALE: 1:8						SHEET 2 OF 2					



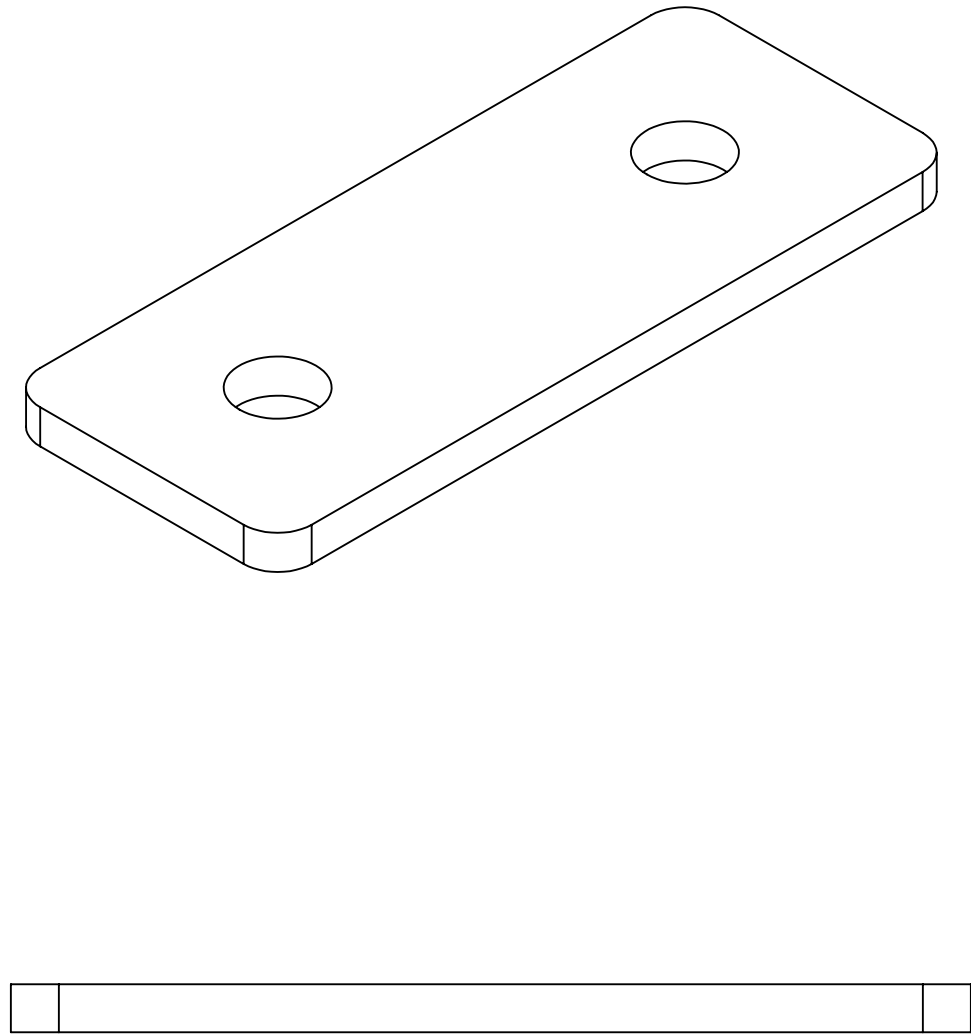
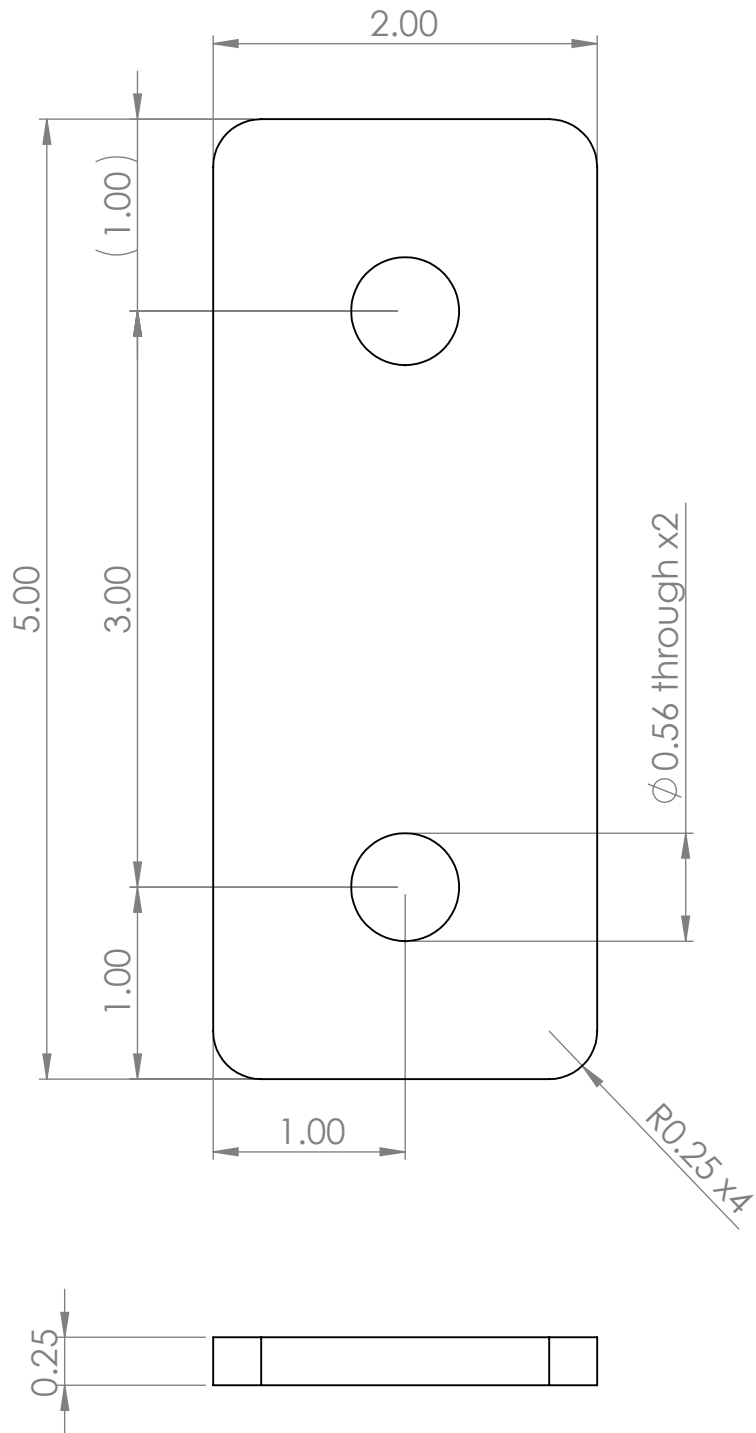
Notes:
1. Manufacture from customer supplied data (e.g. tube laser from Solidworks part file).

Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: Indoor: None Outdoor: Hot Dip Galvanize			Debur and break sharp edges (if applicable)	DO NOT SCALE DRAWING	REVISION	I
							TITLE: Profile Module - 90in Long		
DRAWN	Mark Hemphil		1/27/2023				DWG NO.	PWS-2.0-L09-90	B
CHK'D							SCALE: 1:8		
APPV'D									
MFG							SHEET 1 OF 2		
Q.A									
						MATERIAL: ASTM A500 Grade B Steel			
						WEIGHT: 49.943011			



- Notes:
1. Manufacture from customer-supplied data (e.g. laser-cut from dxf file).
 2. Deburr and break all sharp edges.

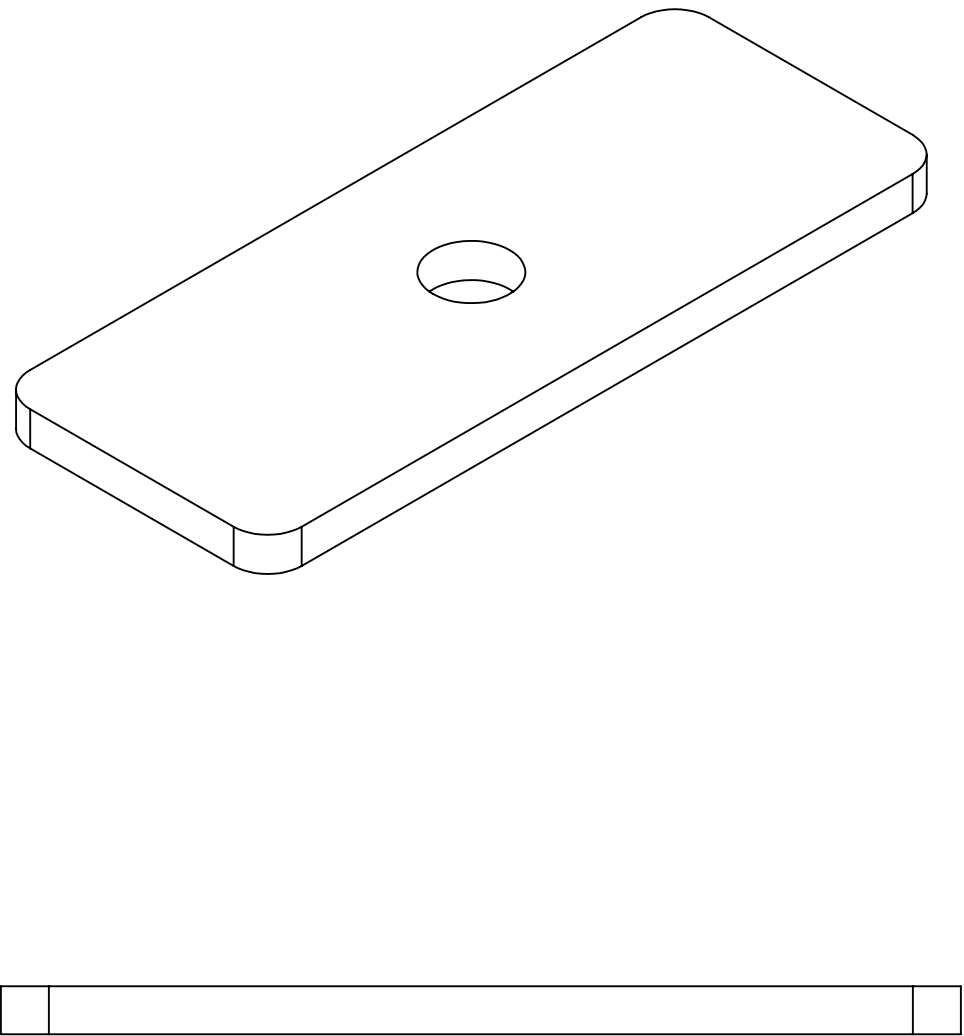
Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: None			Deburr and break sharp edges (if applicable)			DO NOT SCALE DRAWING			REVISION A											
												TITLE: Double Point Anchor Plate											
NAME		SIGNATURE		DATE																			
DRAWN		Mark Hemphil				12/28/2022																	
CHK'D																							
APPV'D																							
MFG																							
Q.A						MATERIAL: ASTM A36 Steel						DWG NO. PWS-2.0-L10				B							
						WEIGHT: 5.781055						SCALE: 1:3				SHEET 1 OF 1							



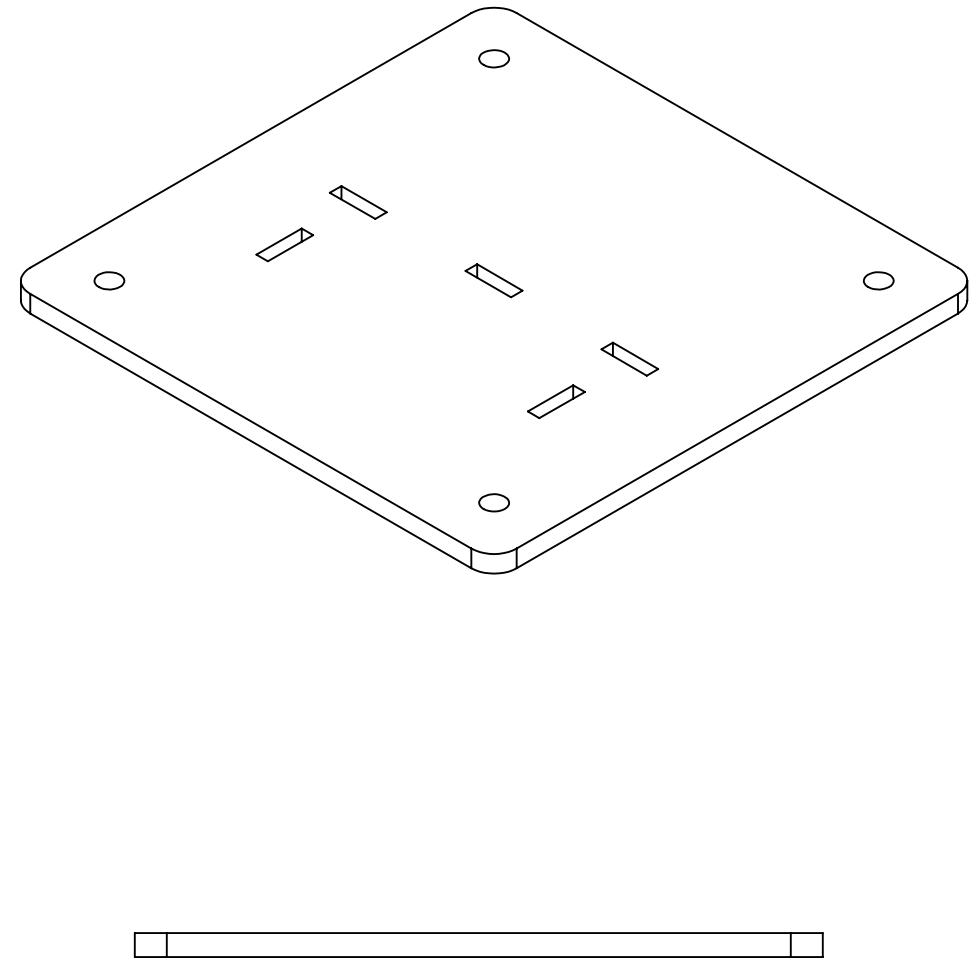
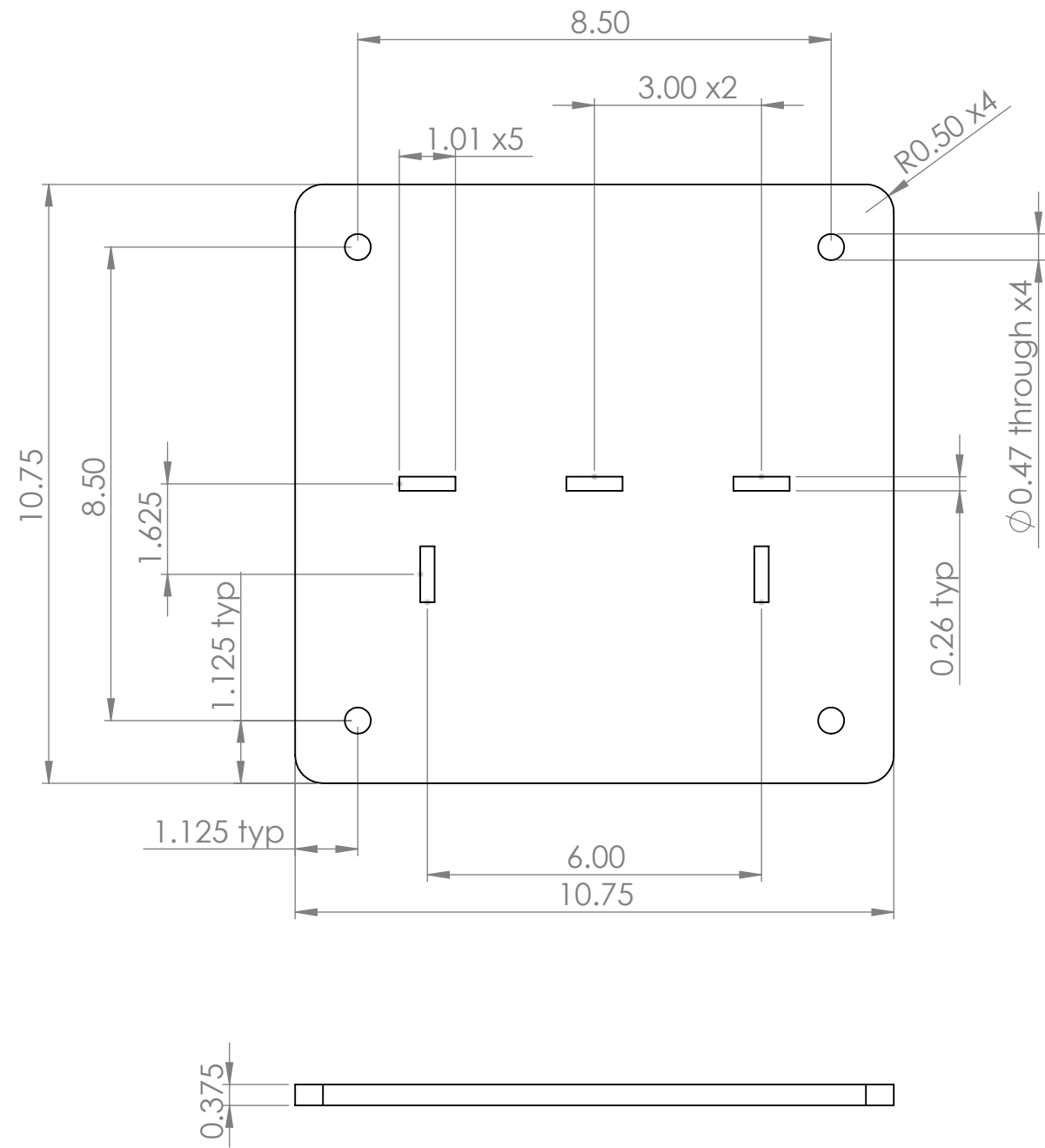
Notes:

1. Manufacture from customer-supplied data (e.g. laser-cut from dxf file).
2. Deburr and break all sharp edges.

Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: Indoor: None Outdoor: Hot Dip Galvanize			Deburr and break sharp edges (if applicable)	DO NOT SCALE DRAWING	REVISION C
	NAME	SIGNATURE	DATE				TITLE: Washer Plate - Double Hole	
DRAWN	Mark Hemphill		4/10/2023					
CHK'D								
APPV'D								
MFG								
Q.A				MATERIAL: ASTM A36 Steel			DWG NO. PWS-2.0-L11-2	B
				WEIGHT: 0.669956			SCALE: 1:1	SHEET 1 OF 2



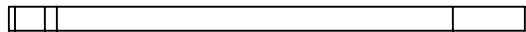
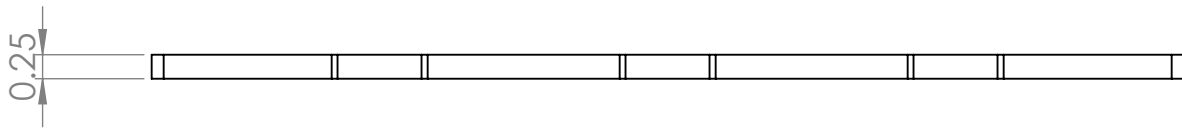
1. Manufacture from customer-supplied data (e.g. laser-cut from dxf file).
2. Deburr and break all sharp edges.



Notes:

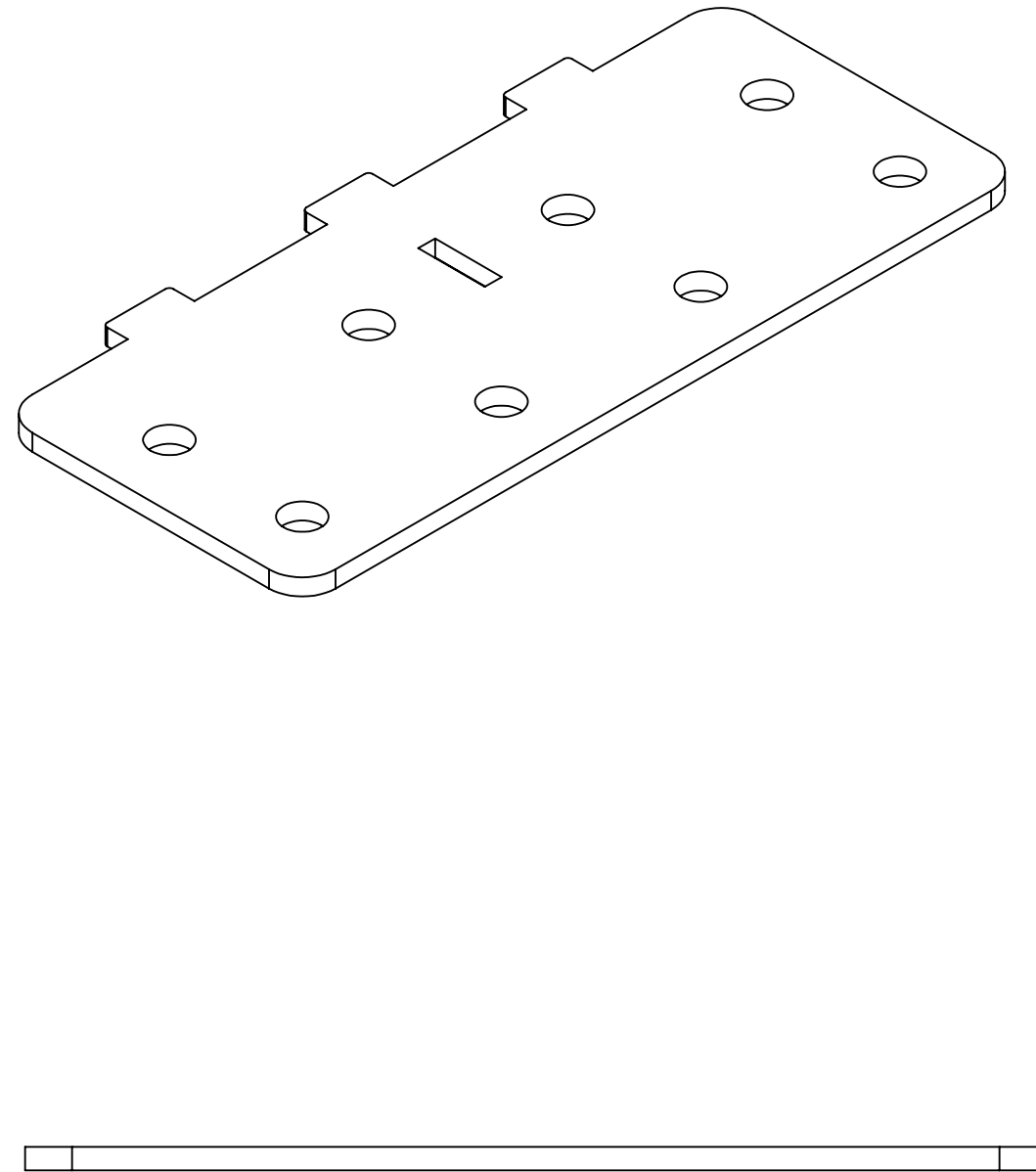
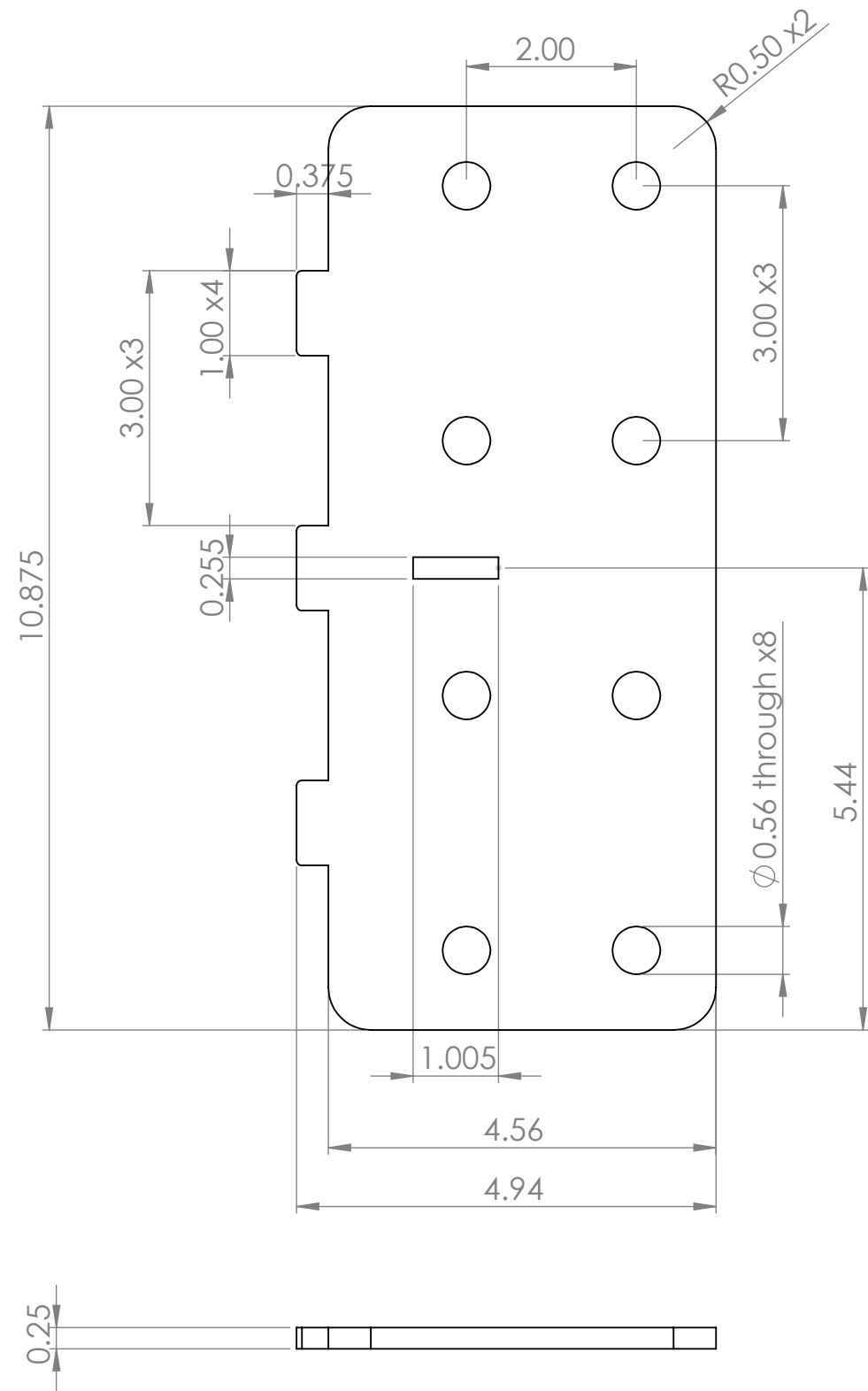
1. Manufacture from customer-supplied data (e.g. laser-cut from dxf file).
2. Deburr and break all sharp edges.

Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: None			Deburr and break sharp edges (if applicable)	DO NOT SCALE DRAWING		REVISION B		
							TITLE: Tieback Anchor Plate				
DRAWN	Mark Hemphil	SIGNATURE	DATE	7/12/2023							
CHK'D											
APPV'D											
MFG											
Q.A											
					MATERIAL: ASTM A572 Grade 50 Steel		DWG NO. PWS-2.0-L18		B		
						WEIGHT: 12.057527		SCALE: 1:3		SHEET 1 OF 1	



1. Manufacture from customer-supplied data (e.g. laser-cut from dxf file).
2. Deburr and break all sharp edges.

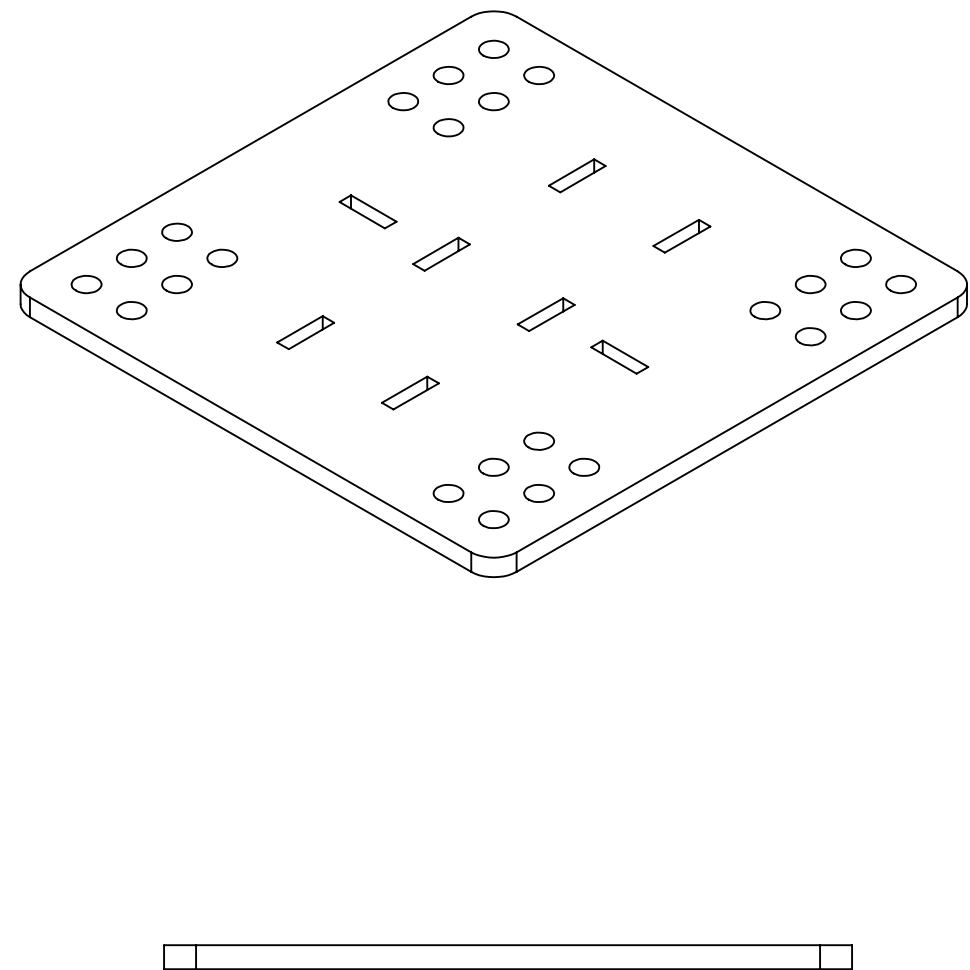
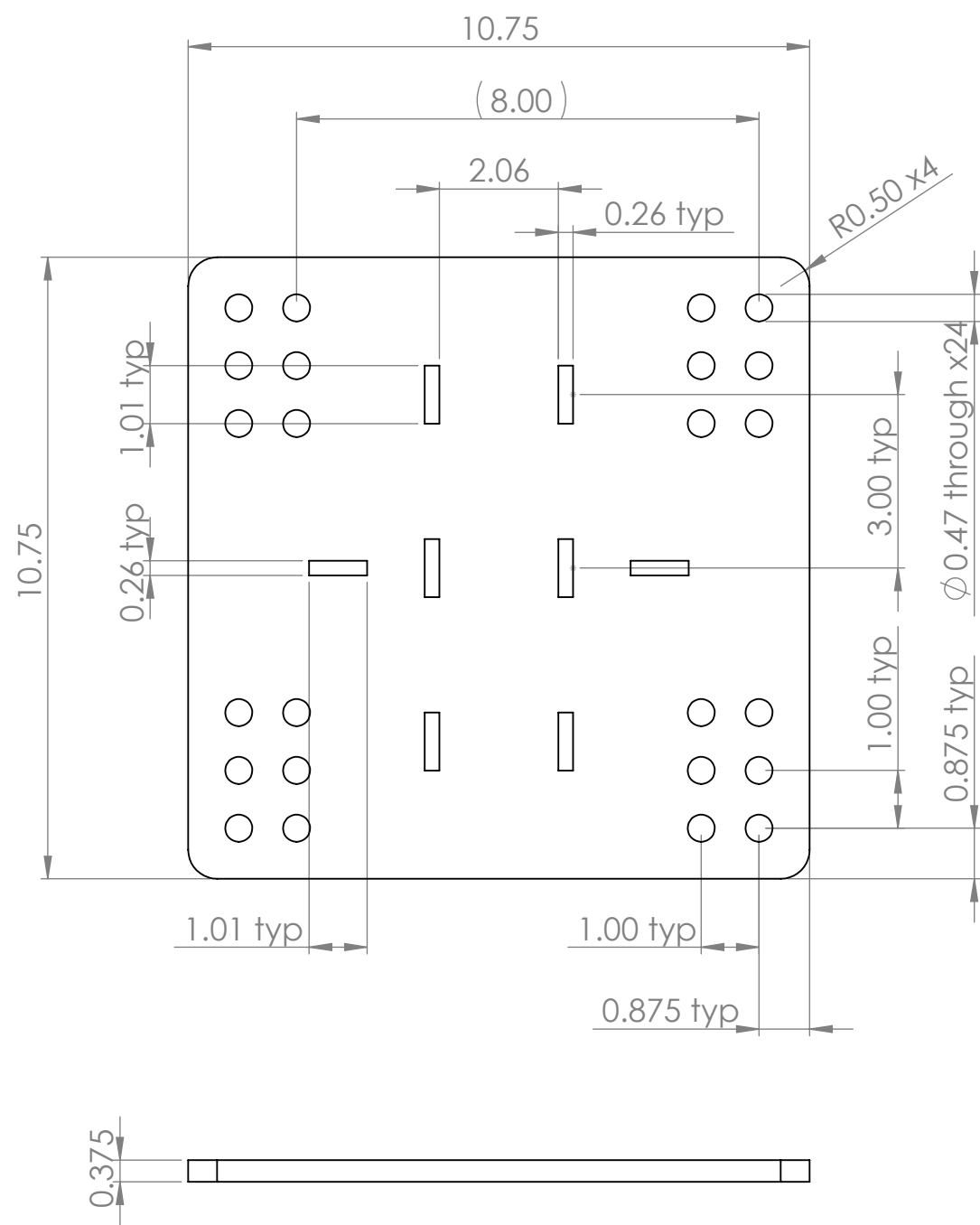
Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5		FINISH: None		Deburr and break sharp edges (if applicable)		DO NOT SCALE DRAWING		REVISION A	
NAME		SIGNATURE		DATE		TITLE:			
DRAWN	Mark Hemphil			7/12/2023		Tieback Fin Plate - for CMU Wall			
CHK'D						DWG NO. PWS-2.0-L19-CMU			
APPV'D									
MFG									
Q.A									
				MATERIAL:		B			
				ASTM A36 Steel					
				WEIGHT: 3.765861		SCALE: 1:2		SHEET 1 OF 2	



Notes:

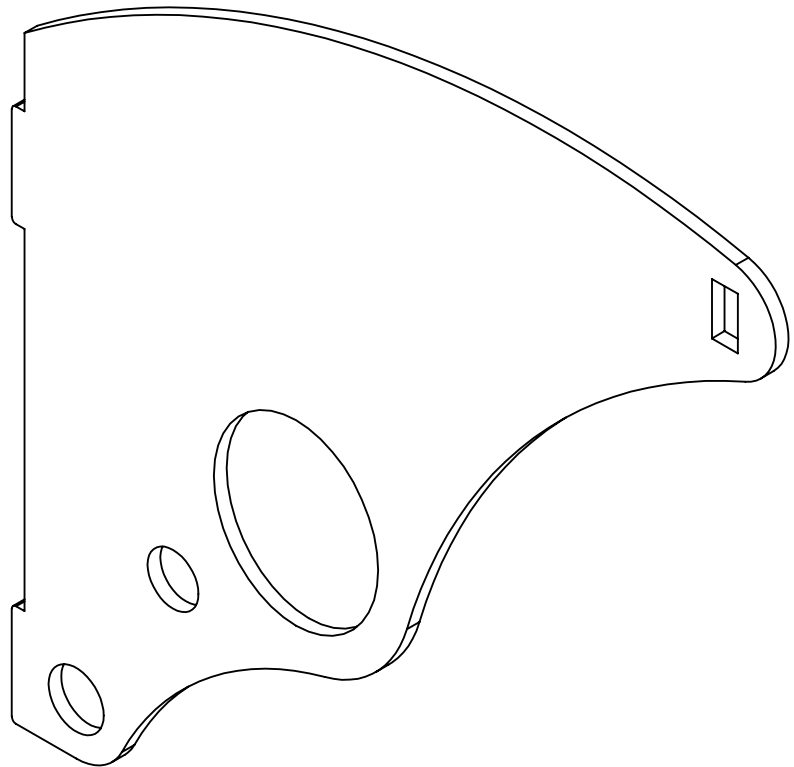
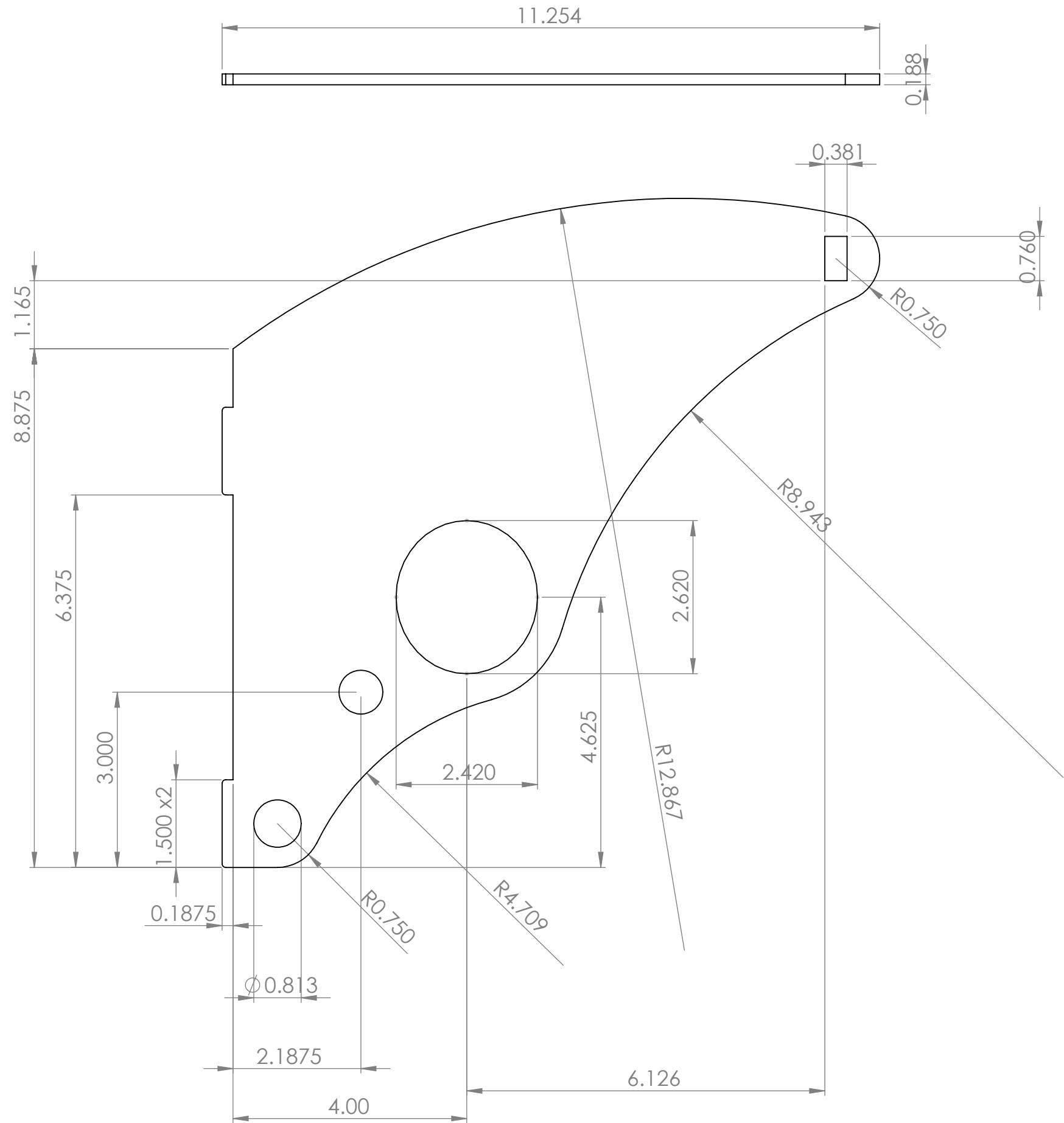
1. Manufacture from customer-supplied data (e.g. laser-cut from dxf file).
2. Deburr and break all sharp edges.

Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: None			Deburr and break sharp edges (if applicable)			DO NOT SCALE DRAWING			REVISION B				
									TITLE: Concrete Bracket Splice Plate							
DRAWN		Mark Hemphil		DATE		2/14/2024										
CHK'D																
APPV'D																
MFG																
Q.A																
						MATERIAL: ASTM A36 Steel			DWG NO.			PWS-2.0-L30			B	
						WEIGHT: 3.422917			SCALE: 1:2			SHEET 1 OF 1				



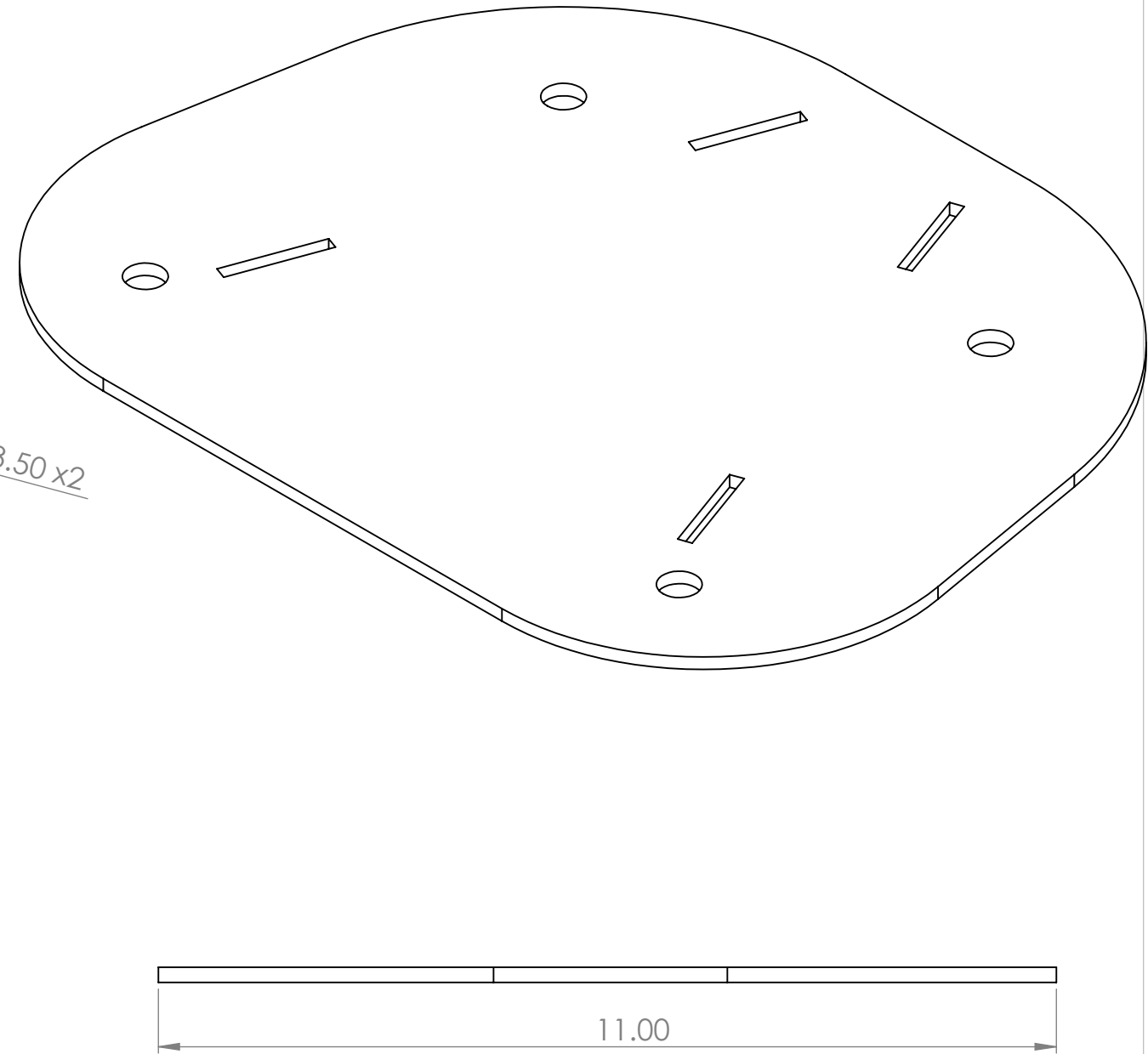
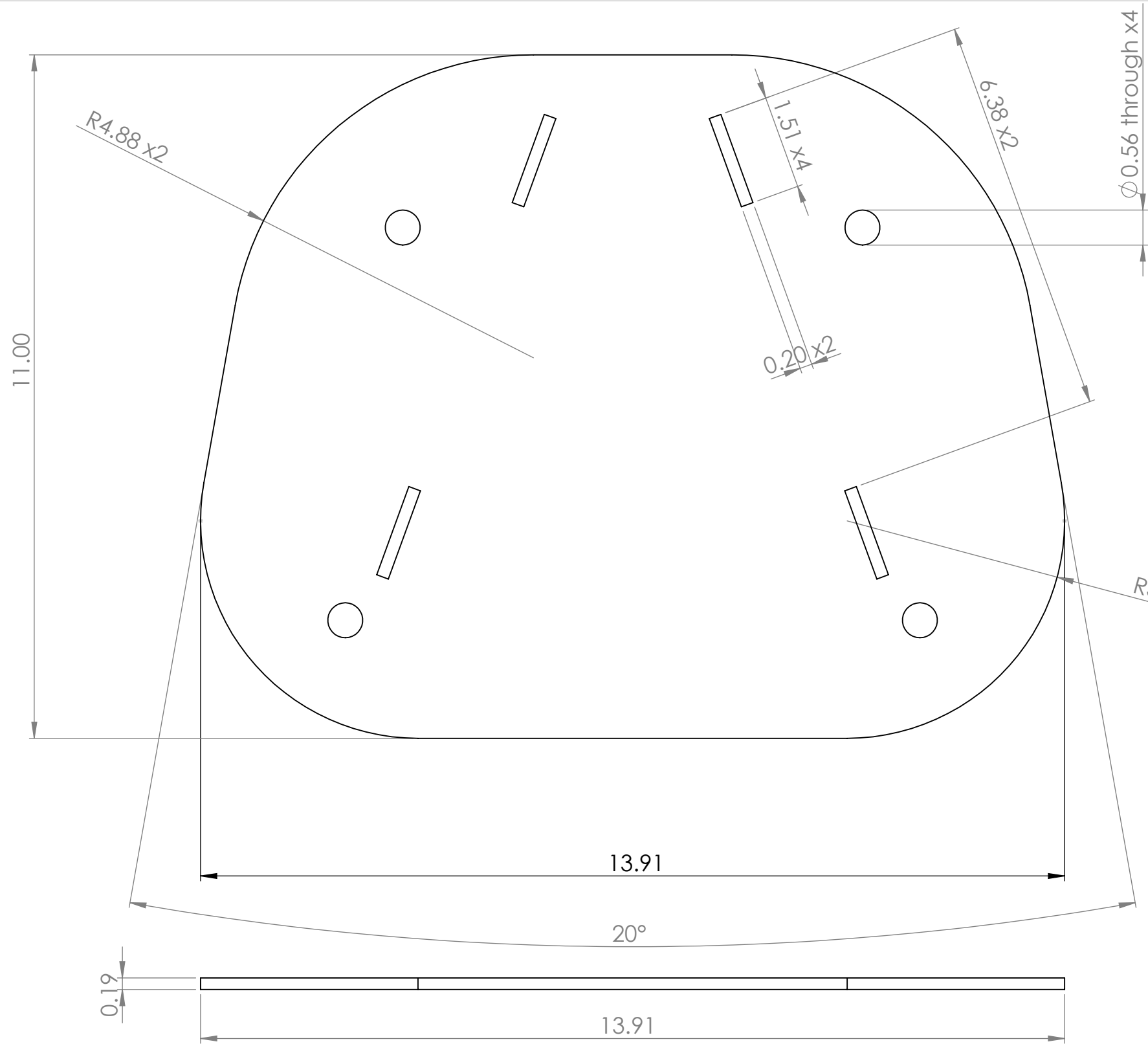
- Notes:
- 1. Manufacture from customer-supplied data (e.g. laser-cut from dxf file).
 - 2. Deburr and break all sharp edges.

Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: None			Deburr and break sharp edges (if applicable)			DO NOT SCALE DRAWING			REVISION A							
												TITLE: Concrete Bracket Anchor Plate							
NAME		SIGNATURE		DATE															
DRAWN		Mark Hemphil				2/14/2023													
CHK'D																			
APPV'D																			
MFG																			
Q.A								MATERIAL:				DWG NO.				B			
								ASTM A572 Grade 50 Steel				PWS-2.0-L31							
								WEIGHT: 11.608701				SCALE: 1:3				SHEET 1 OF 1			



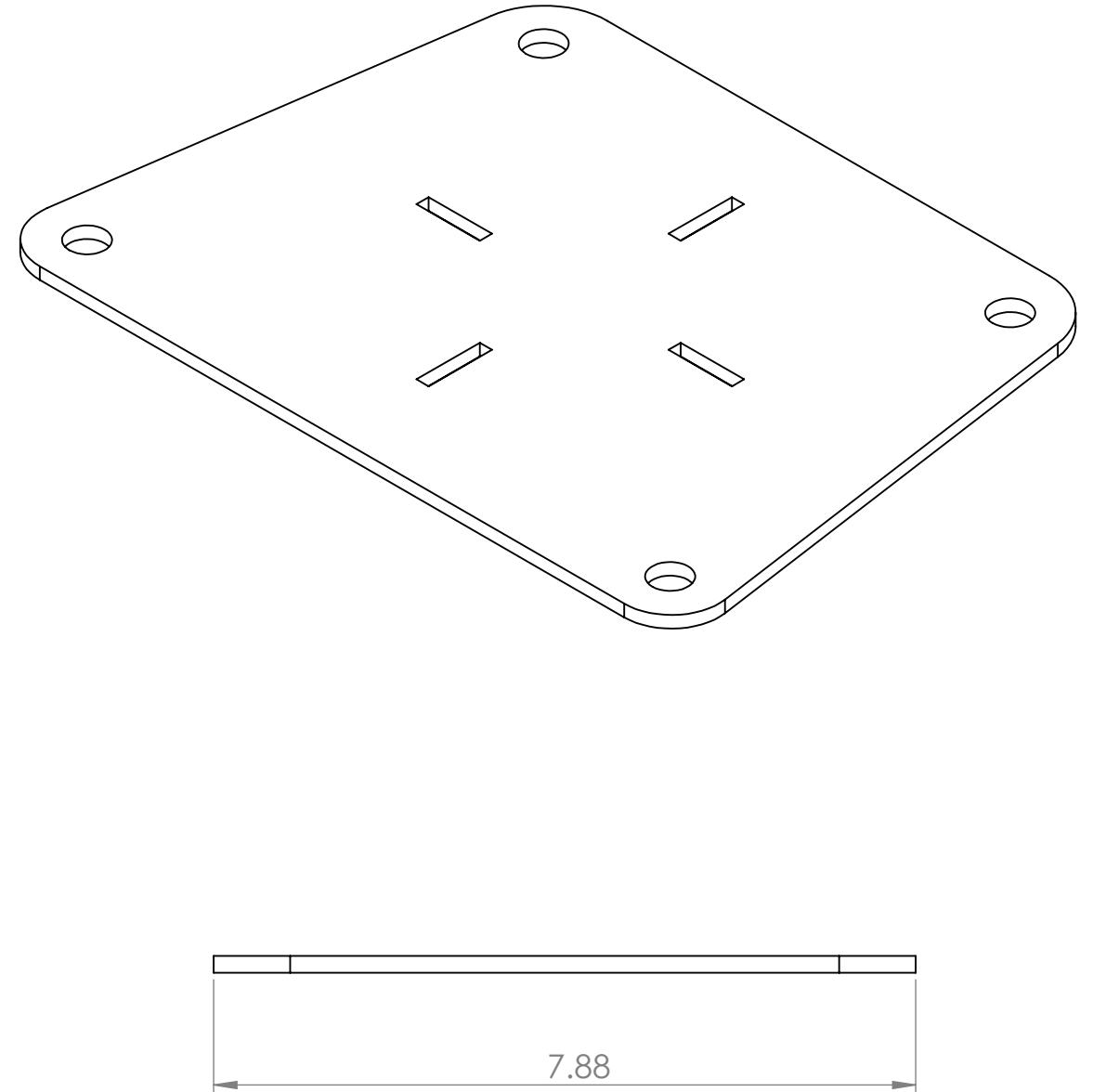
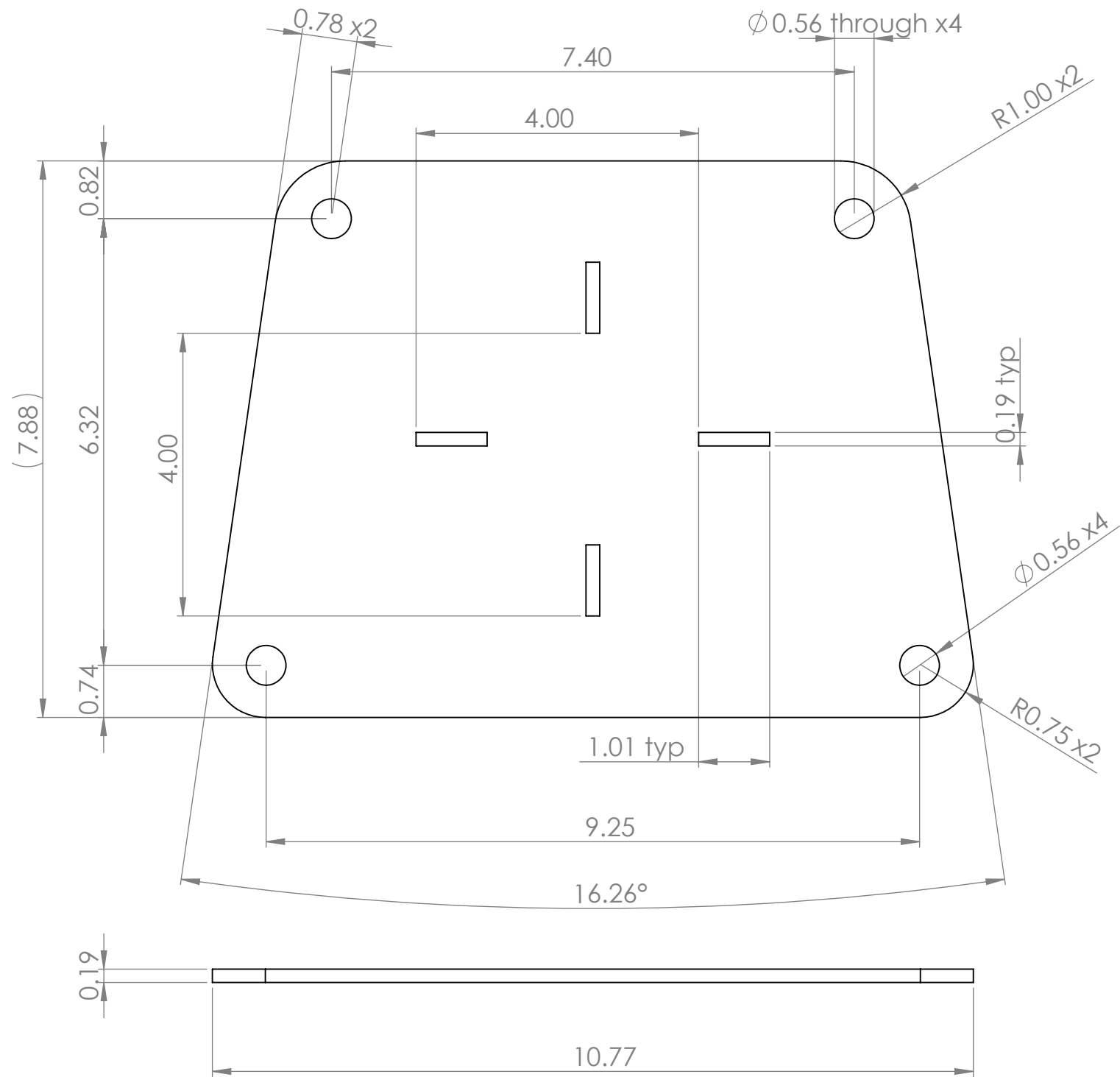
- Notes:
- 1. Manufacture from customer-supplied data (e.g. laser-cut from dxf file).
 - 2. Deburr and break all sharp edges.

Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.02 Angular: +/- 0.5			FINISH: None			Deburr and break sharp edges (if applicable)	DO NOT SCALE DRAWING	REVISION	E
							TITLE: Fin Plate - Indoor		
DRAWN	Mark Hemphil	SIGNATURE	DATE				DWG NO. WAL-BB-L001-I		
CHK'D			4/8/2020						
APPV'D									
MFG									
Q.A						MATERIAL: ASTM A572 Grade 50 Steel	SCALE: 1:2		
						WEIGHT: 3.244003	SHEET 1 OF 2		



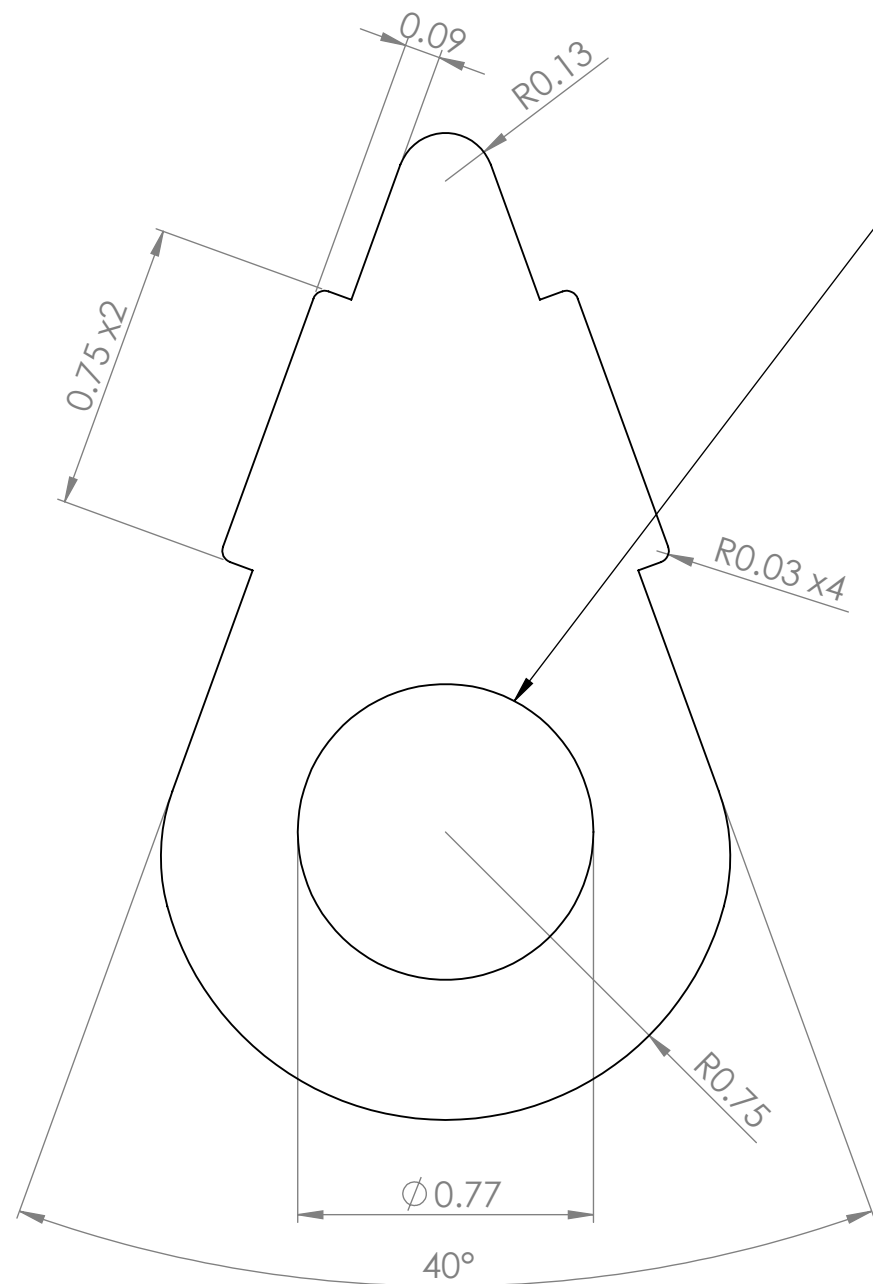
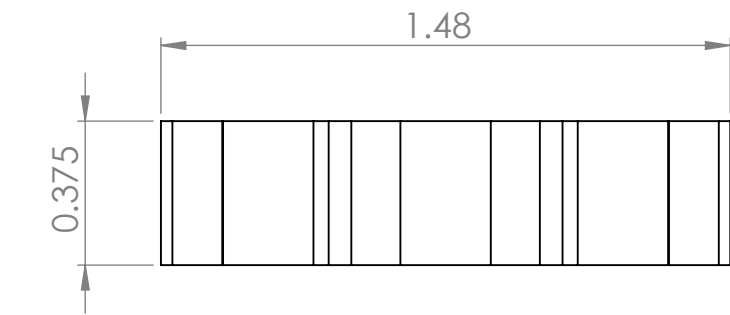
- Notes:
1. Manufacture from customer-supplied data (e.g. laser-cut from dxf file).
 2. Deburr and break all sharp edges.

Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.02 Angular: +/- 0.5			FINISH: None			Deburr and break sharp edges (if applicable)	DO NOT SCALE DRAWING		REVISION E		
	NAME	SIGNATURE	DATE				TITLE: Back Plate - Indoor				
DRAWN	Mark Hemphil		4/8/2020								
CHK'D											
APPV'D											
MFG											
Q.A											
						MATERIAL: ASTM A572 Grade 50 Steel	DWG NO. WAL-BB-L002-I		B		
						WEIGHT: 6.897280	SCALE: 1:2		SHEET 1 OF 4		

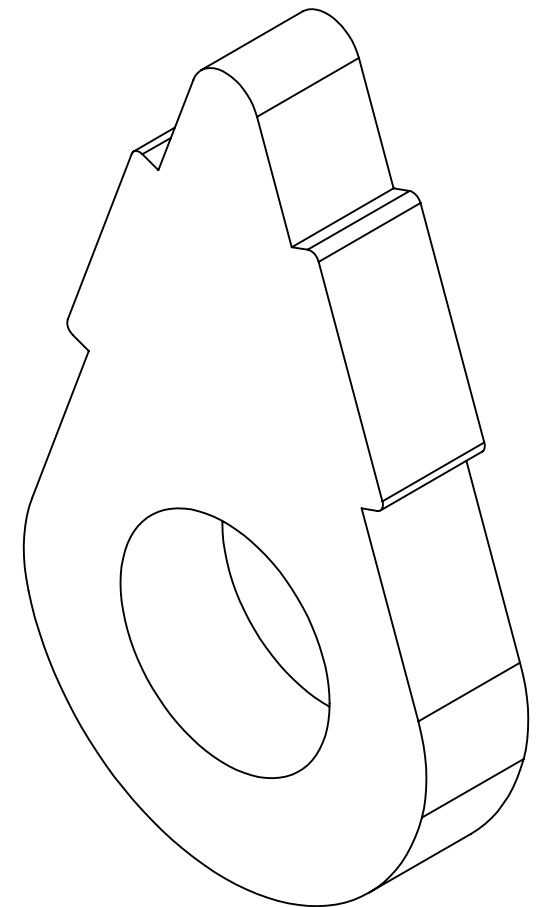
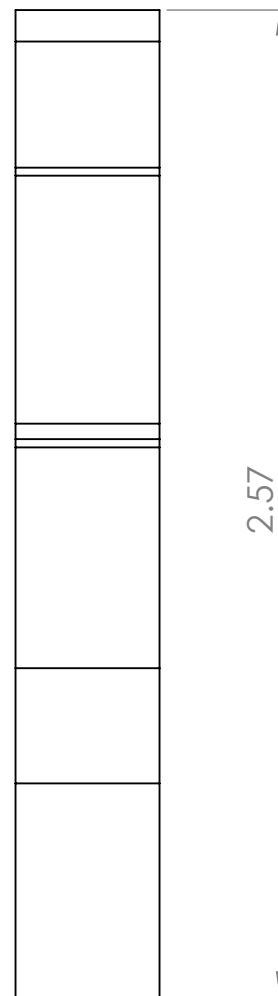


- Notes:
1. Manufacture from customer-supplied data (e.g. laser-cut from dxf file).
 2. Deburr and break all sharp edges.

Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: None			Deburr and break sharp edges (if applicable)			DO NOT SCALE DRAWING			REVISION		G	
	NAME		SIGNATURE		DATE					TITLE: Back Back Plate					
DRAWN	Mark Hemphil				4/8/2020										
CHK'D															
APPV'D															
MFG															
Q.A															
															DWG NO. WAL-BB-L003
										SCALE: 1:2			SHEET 1 OF 1		

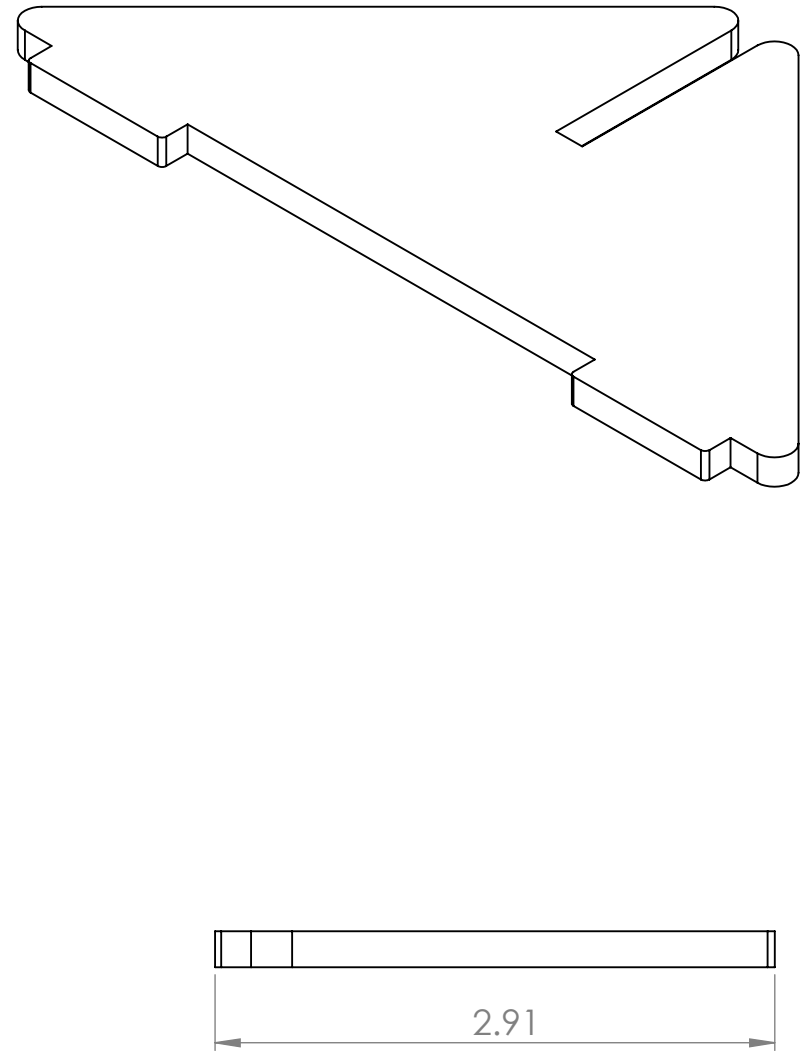
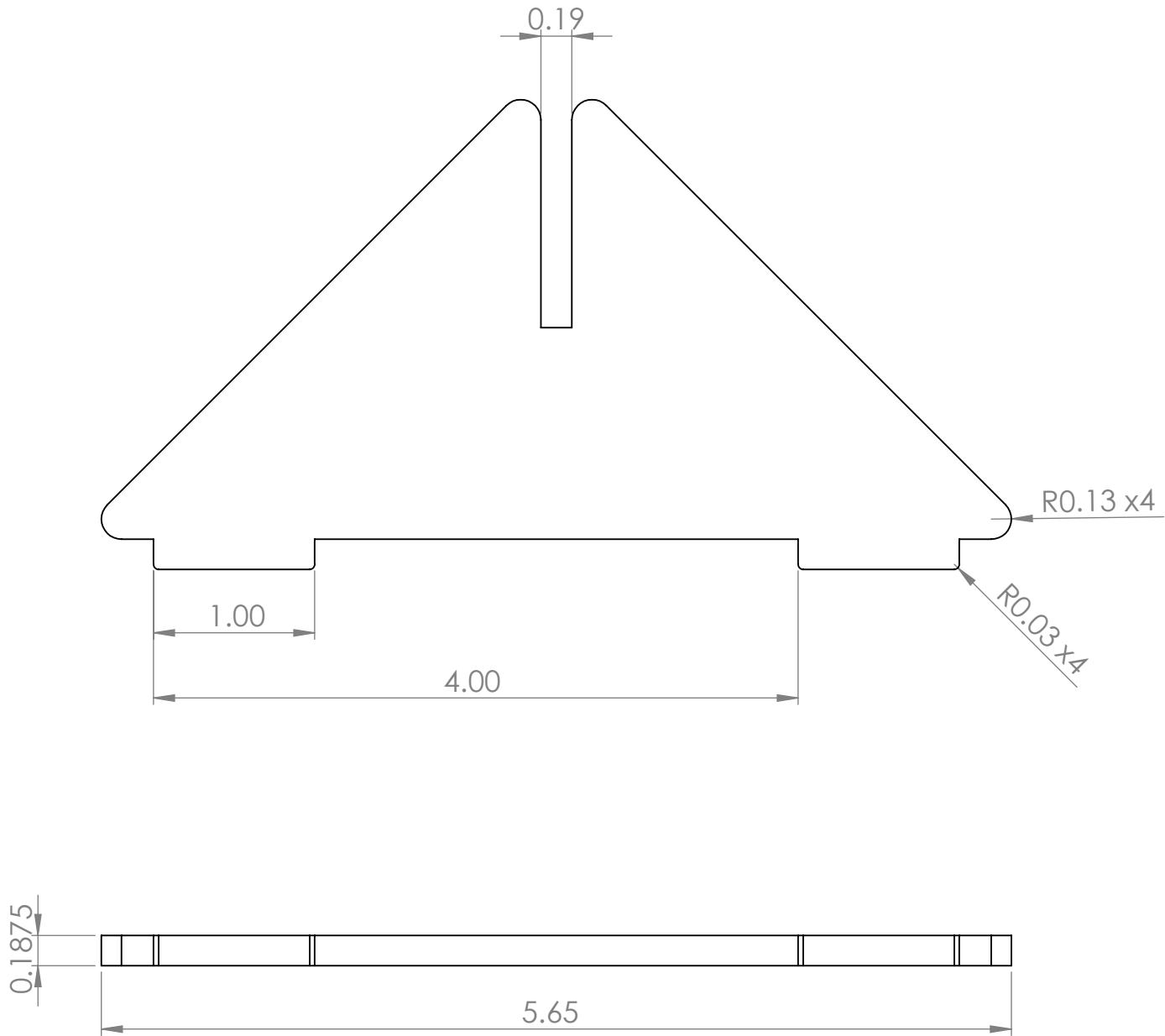


break edge of through hole both front and back
(carabiner will be rubbing against these edges)



- Notes:
1. Manufacture from customer-supplied data (e.g. laser-cut from dxf file).
 2. Deburr and break all sharp edges.

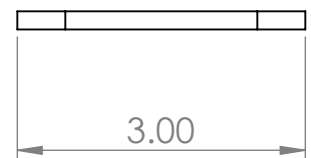
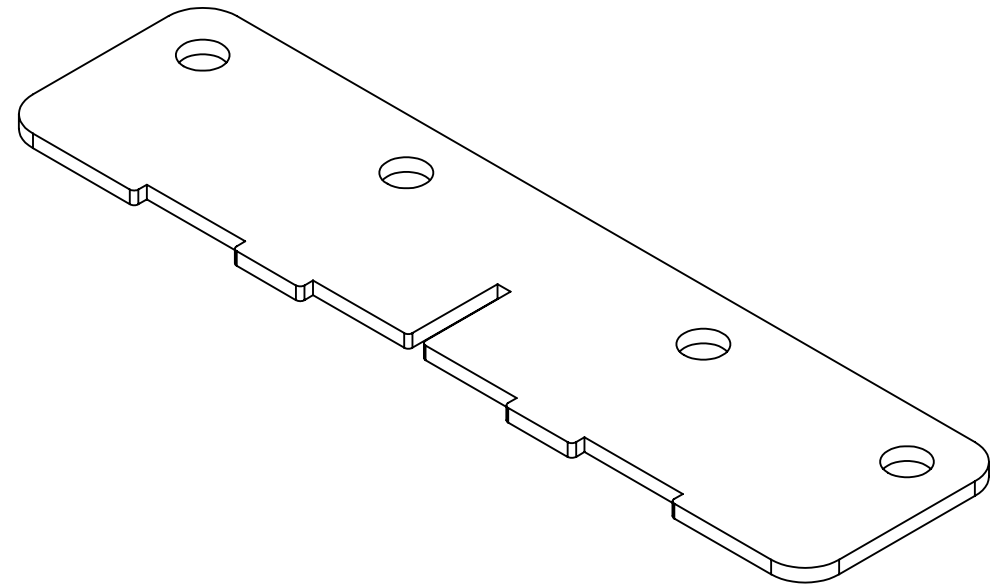
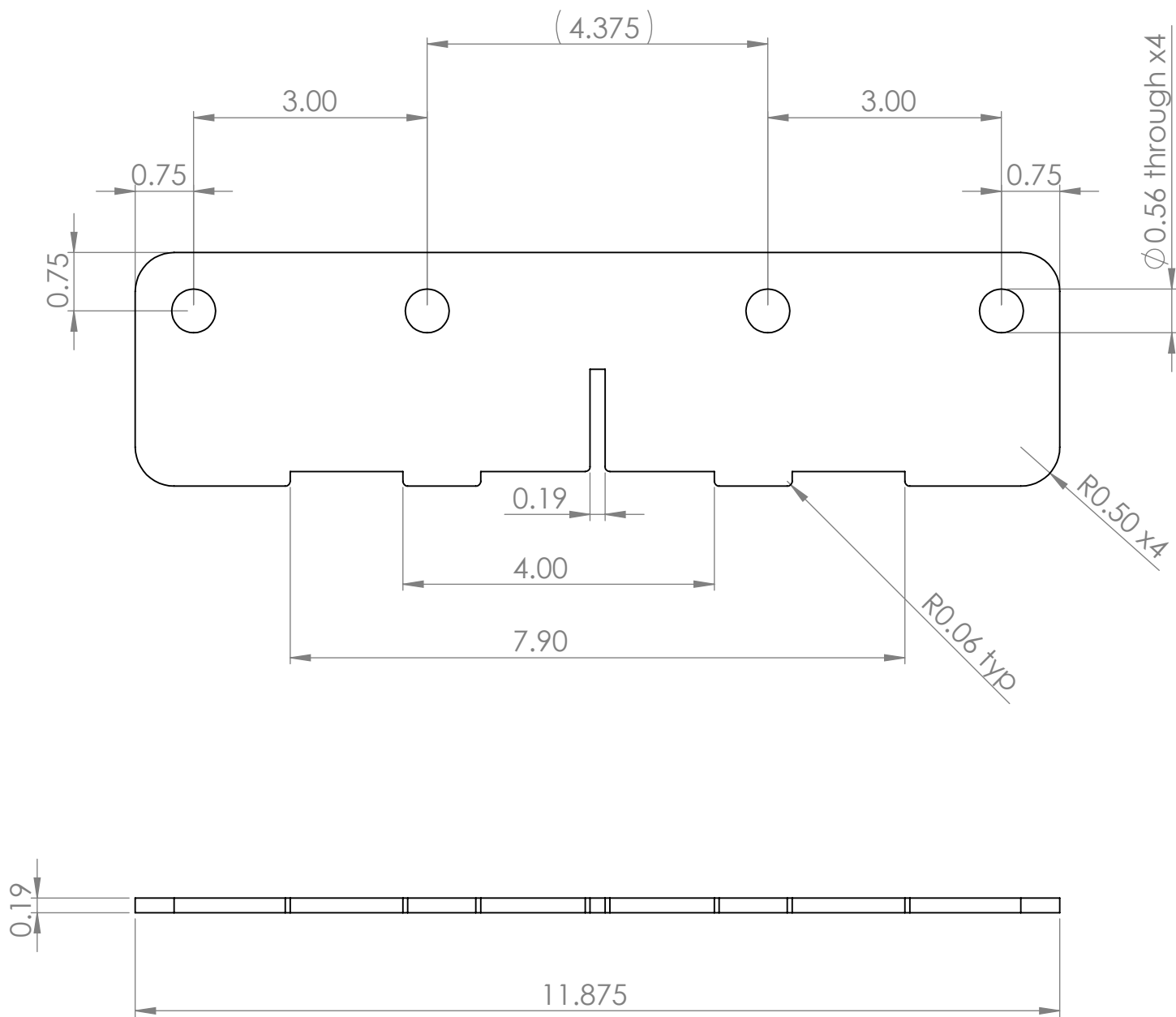
Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: None			Deburr and break sharp edges (if applicable)	DO NOT SCALE DRAWING	REVISION F
	NAME	SIGNATURE	DATE				TITLE: Rigging Tab - Indoor	
DRAWN	Mark Hemphil		11/5/2020					
CHK'D								
APPV'D								
MFG								
Q.A							DWG NO.	B
						MATERIAL: ASTM A572 Grade 50 Steel	WAL-BB-L004-I	
						WEIGHT: 0.220860	SCALE: 2:1	SHEET 1 OF 2



- Notes:
1. Manufacture from customer-supplied data (e.g. laser-cut from dxf file).
 2. Deburr and break all sharp edges.

Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: None			Deburr and break sharp edges (if applicable)	DO NOT SCALE DRAWING		REVISION D		
	NAME	SIGNATURE	DATE				TITLE: Gusset				
DRAWN	Mark Hemphil		6/3/202								
CHK'D							DWG NO. WAL-BB-L005				
APPV'D											
MFG							B				
Q.A											
							ASTM A572 Grade 50 Steel				
							MATERIAL:				
							B				

DO NOT SCALE DRAWING			REVISION D		
TITLE: Gusset					
DWG NO. WAL-BB-L005			B		
SCALE: 1:1			SHEET 1 OF 1		



- Notes:
1. Manufacture from customer-supplied data (e.g. laser-cut from dxf file).
 2. Deburr and break all sharp edges.

Unless otherwise specified: Dimensions are in inches Surface finish: Tolerances: Linear: +/- 0.06 Angular: +/- 0.5			FINISH: None			Deburr and break sharp edges (if applicable)	DO NOT SCALE DRAWING	REVISION	A
	NAME	SIGNATURE	DATE				TITLE: Spine Plate		
DRAWN	Mark Hemphil		4/23/2024						
CHK'D									
APPV'D									
MFG									
Q.A						MATERIAL: ASTM A572 Grade 50 Steel	DWG NO.	WAL-BB-L009	
									B
						WEIGHT:	SCALE: 1:2	SHEET 1 OF 1	