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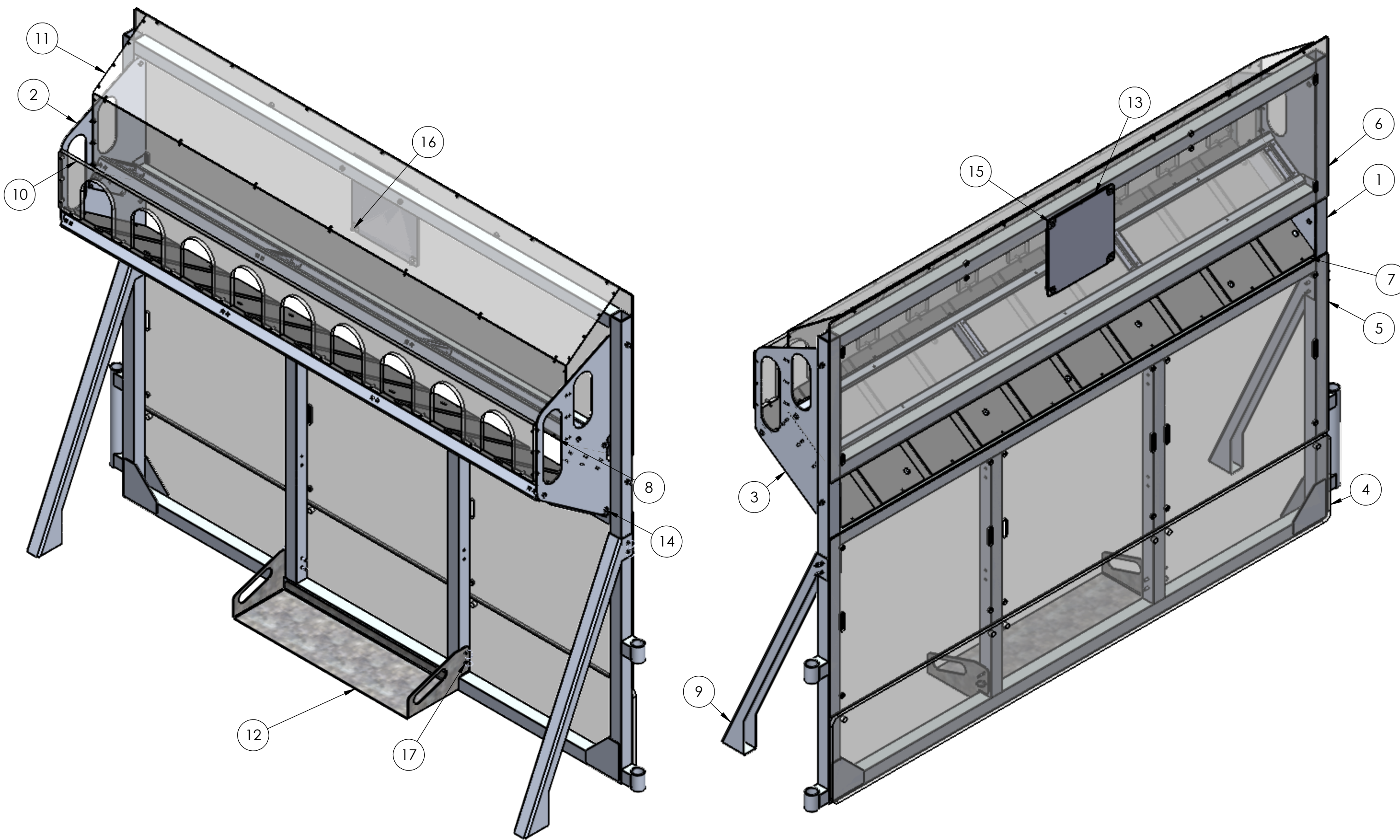
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Note: April Tag ID # changes depending on which Coral Station it is on. See the Field Layout and Marking Diagram for more details.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25001	Field Border Frame	1
2	GE-25002	Left Side Plate Assembly	1
3	GE-25003	Right Side Plate Assembly	1
4	GE-25007	Bumper Plastic	1
5	GE-25008	Lower Front Plastic	1
6	GE-25009	Upper Front Plastic	1
7	GE-25010	Chute Ramp Assembly	1
8	GE-25015	Chute Cover Assembly	1
9	GE-25019	Frame Support Leg	2
10	GE-25020	Back Divider Plastic	1
11	GE-25021	Top Cover Plastic	2
12	GE-25022	Floor Support - 2025 Specific	1
13	FE-00083-ID2	AprilTag	1
14	Configurable Bolt	1" Long 1/4-20 Hex Head Bolt	10
15	Configurable Bolt	2.5" Long 1/4-20 Hex Head Bolt	6
16	nylock_.25_20	Steel Nylon-Insert Locknut, 1/4"-20	8
17	98320A143	Zinc-Plated Steel Ring-Grip Quick-Release Pin	8

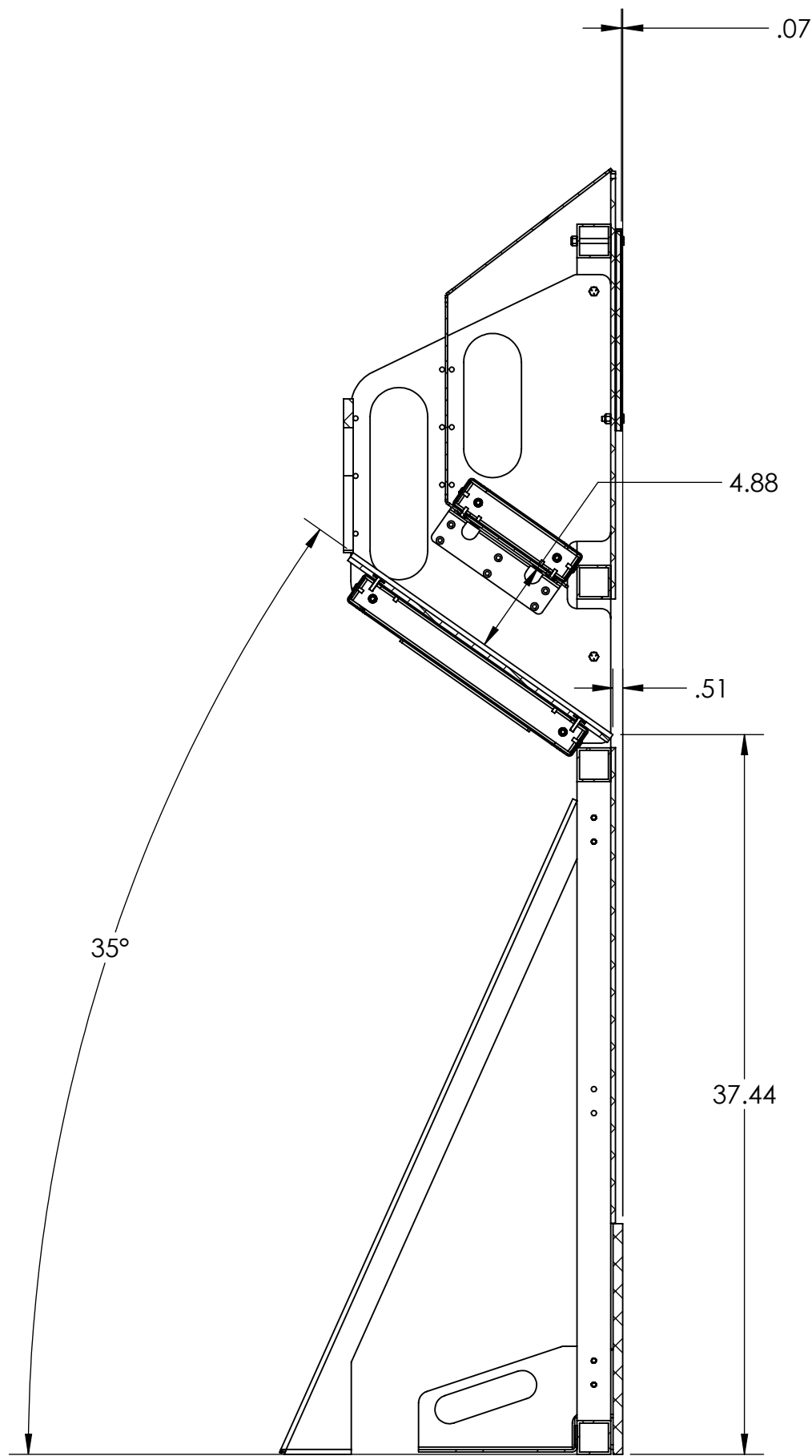
UNLESS OTHERWISE SPECIFIED:		FIELD	NAME	DATE
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/2$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .50$		DRAWN	JO	10/28/2024
MATERIAL/FINISH:		<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.		
DO NOT SCALE DRAWING		<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		
		 		
		TITLE: Coral Station		
SIZE	DWG. NO.	REV		
<b>C</b>	GE-25000			
SCALE: 1:10		SHEET 1 OF 2		

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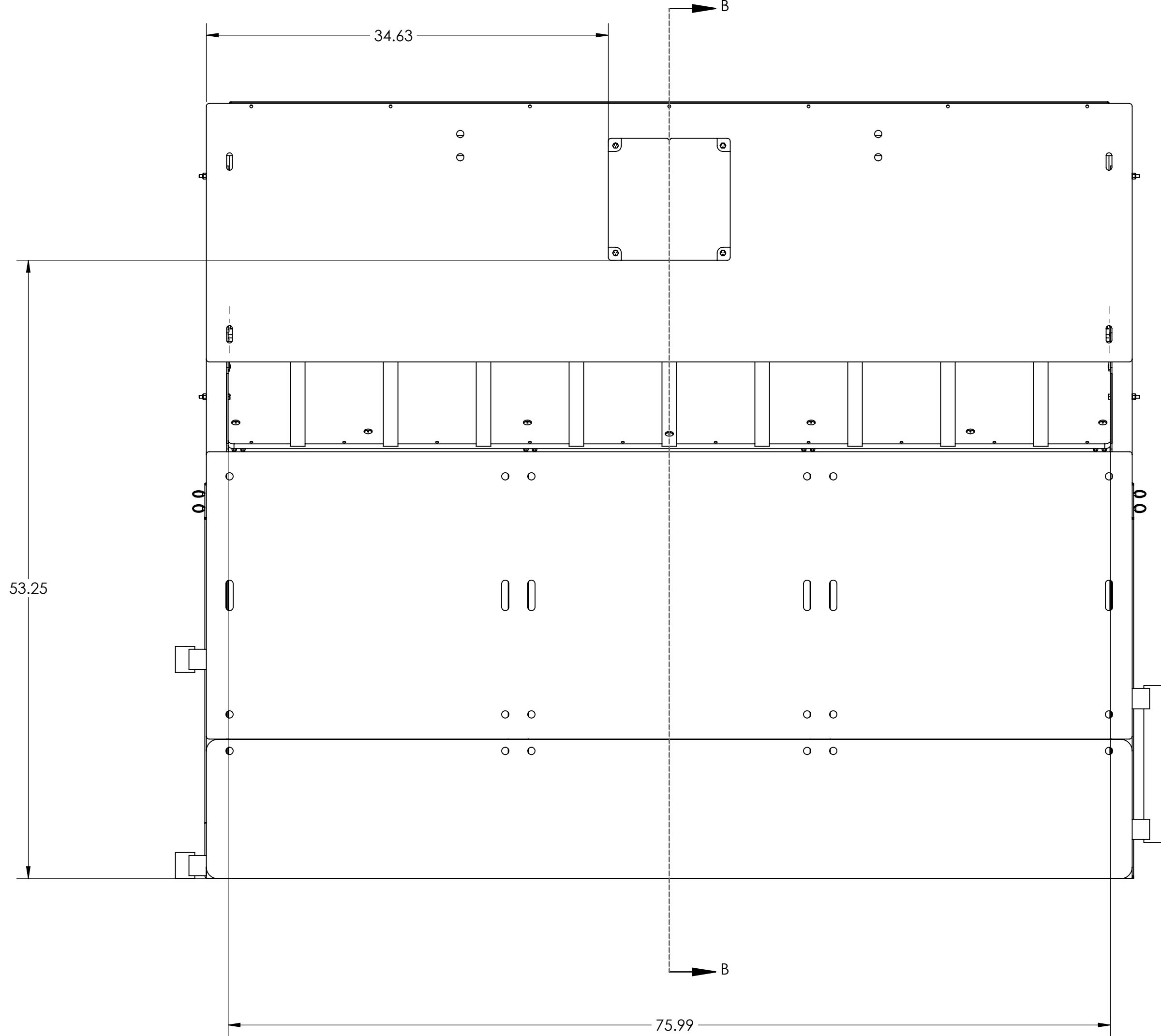
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SECTION B-B



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/2$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .50$	FIELD	NAME	DATE	 
	DRAWN	JO	10/28/2024	
MATERIAL/FINISH:	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.			TITLE:
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			<b>C</b> Coral Station
DO NOT SCALE DRAWING	SCALE: 1:8		DWG. NO. GE-25000	REV
	SHEET 2 OF 2			

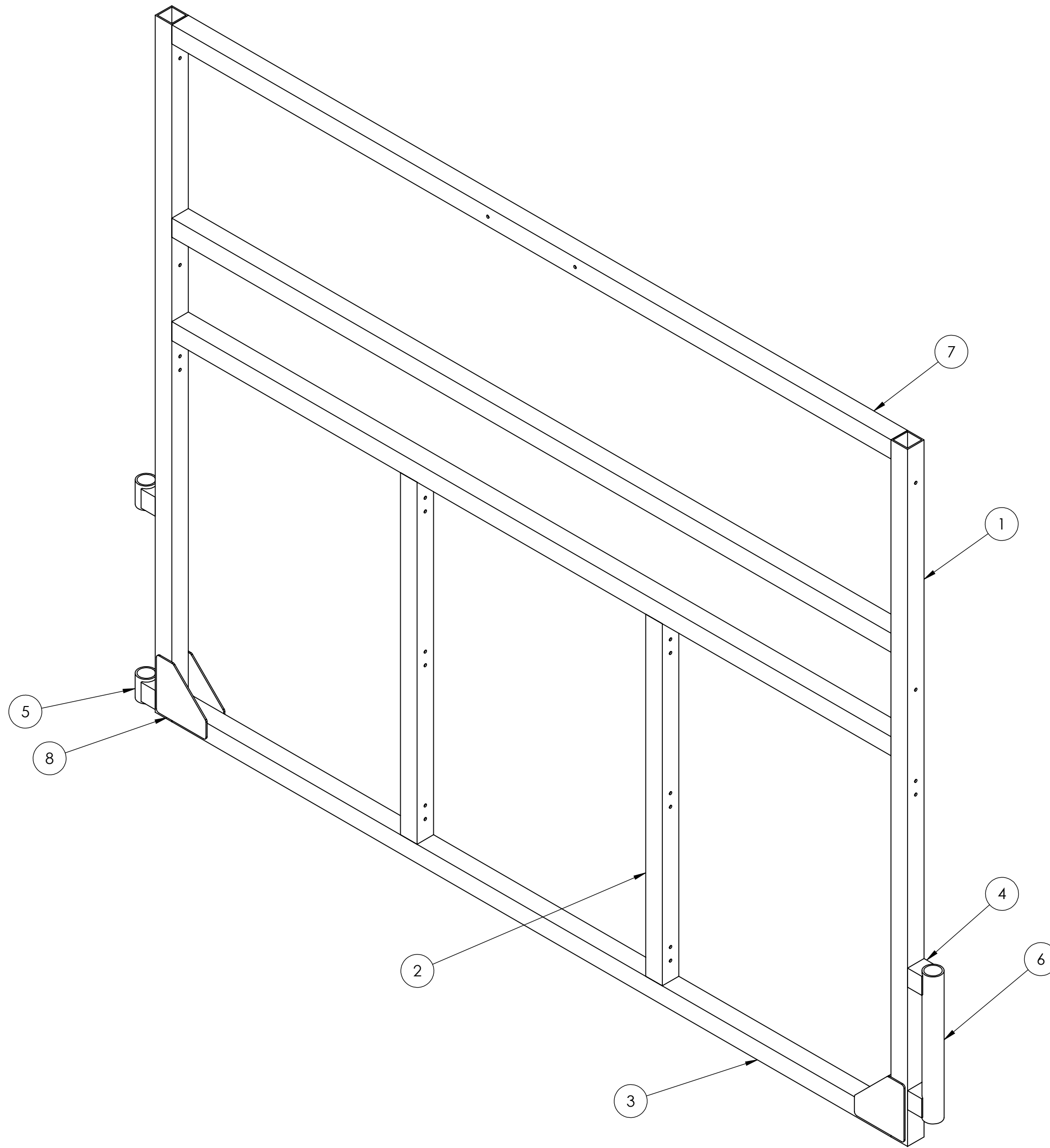
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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
2-A1, 2-A3	A	Gusset moved off edge, Tube tolerance spacing updated	9/30/2024	JO



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25001-01	Field Border Frame Outer Upright	2
2	GE-25001-02	Field Border Frame Inner Upright	2
3	GE-25001-03	Field Border Frame Horizontal	3
4	GE-25001-04	Field Border Frame Pin Shell Connectors	4
5	GE-25001-05	Field Border Frame Short Pin Shell	2
6	GE-25001-06	Field Border Frame Long Pin Shell	1
7	GE-25001-07	Field Border Frame Top Horizontal	1
8	GE-25001-08	Field Border Frame Gusset	4

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL  $\pm 1/16$   
 ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
 TWO PLACE DECIMAL  $\pm .02$   
 THREE PLACE DECIMAL  $\pm .015$

**MATERIAL/FINISH:**  
 6061 Aluminum - 1.75" x  
 .125" Square Box Tube  
 and 1-1/4" Sch 40 Pipe



DO NOT SCALE DRAWING

WELD	NAME	DATE
DRAWN	JO	8/12/2024

**PROPRIETARY AND CONFIDENTIAL**

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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.

TITLE: **Field Border Frame**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25001	<b>A</b>

SCALE: 1:7      SHEET 1 OF 5

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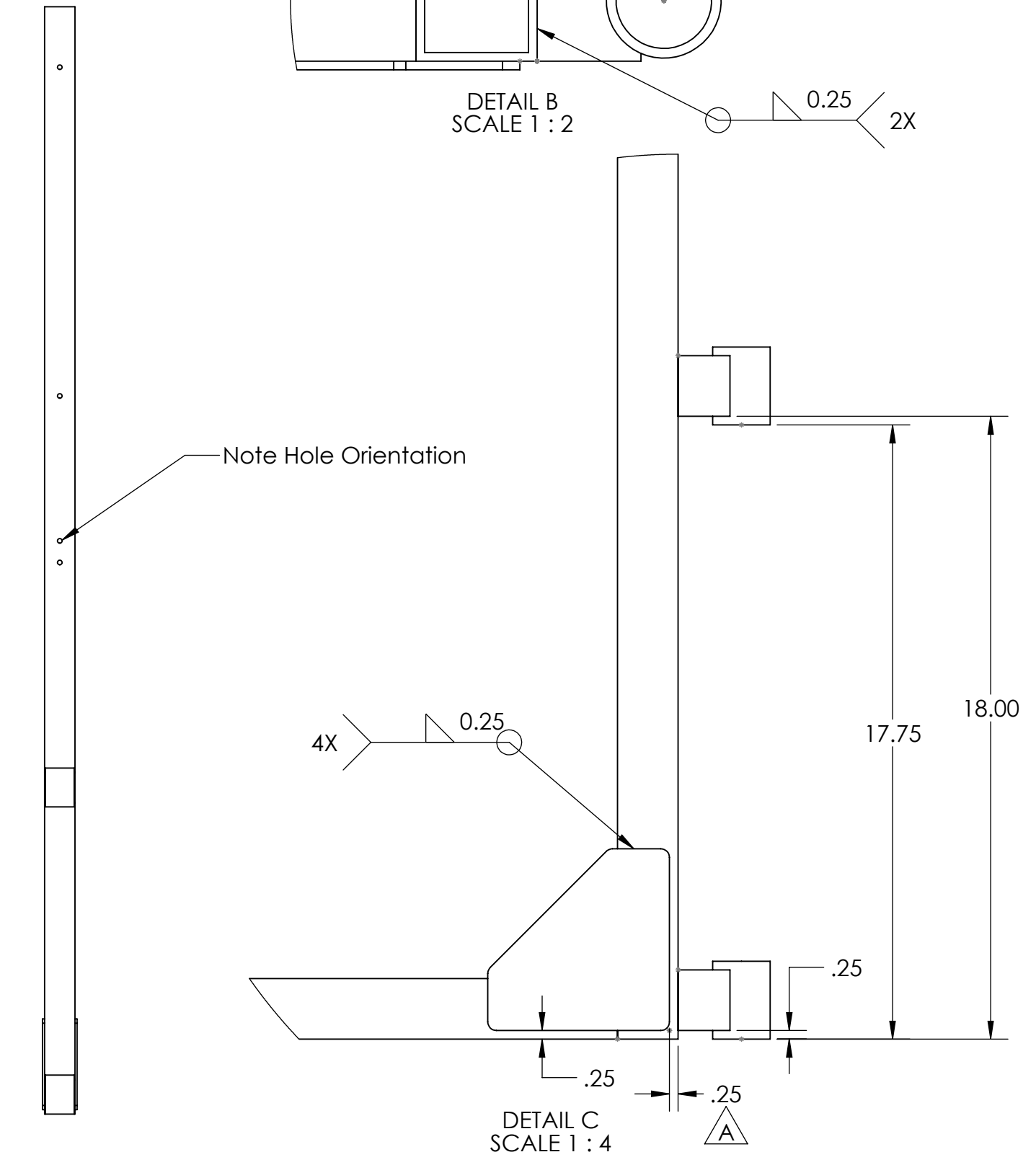
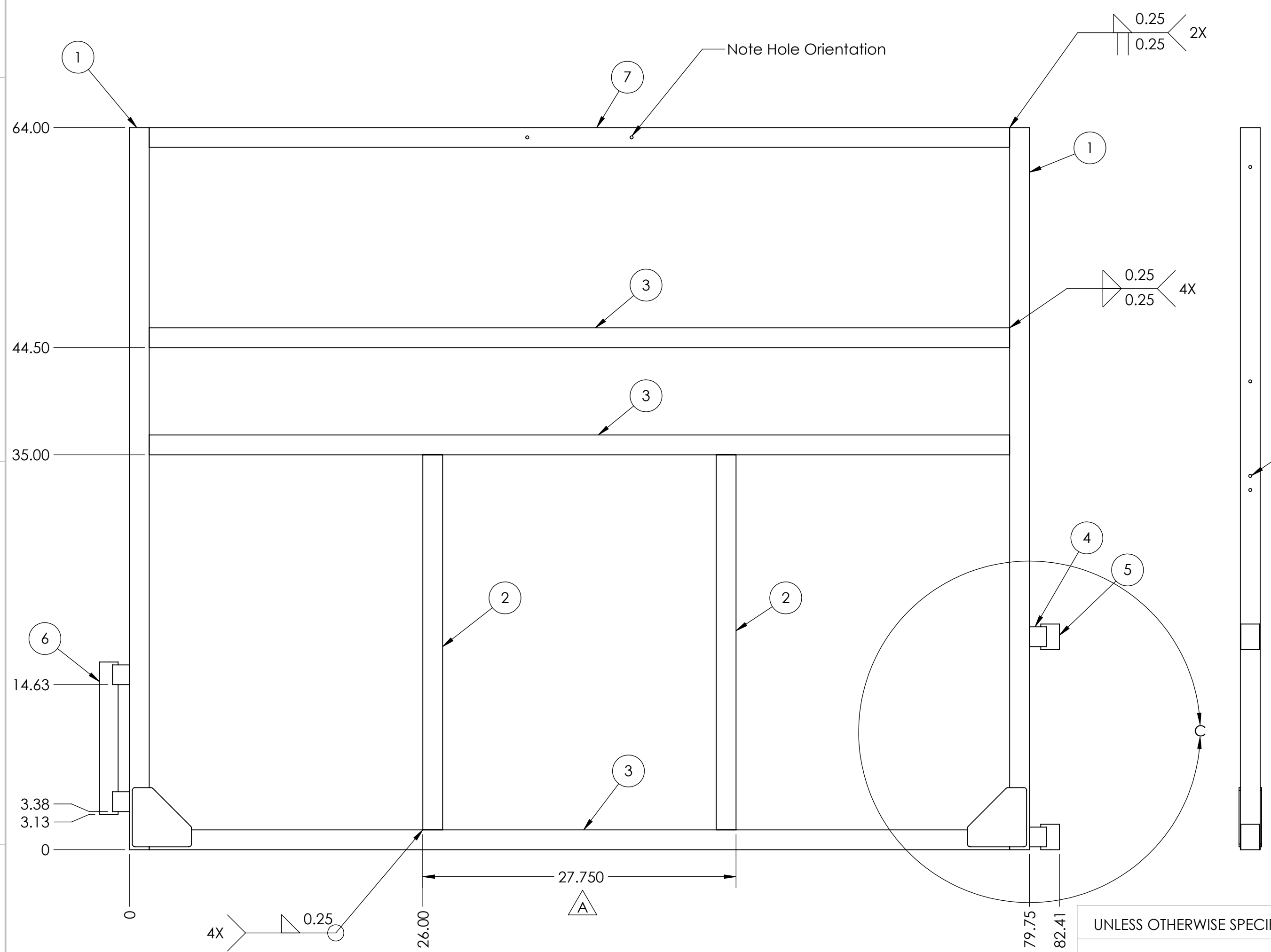
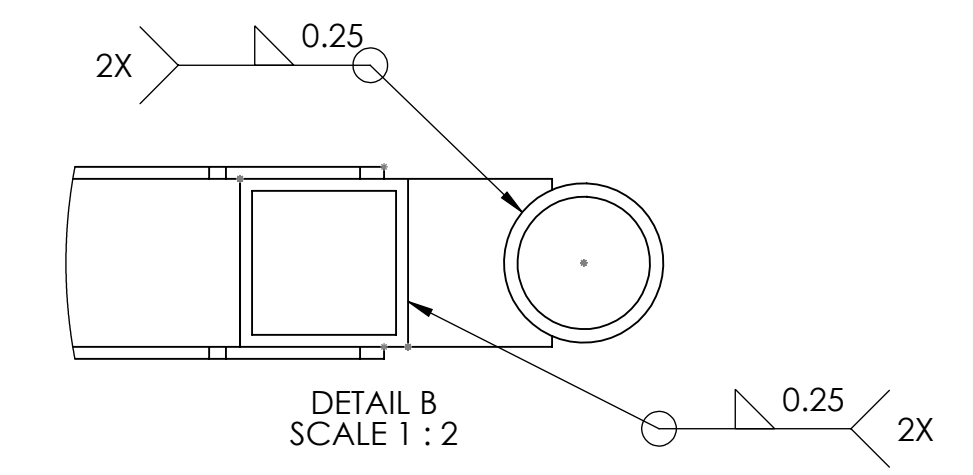
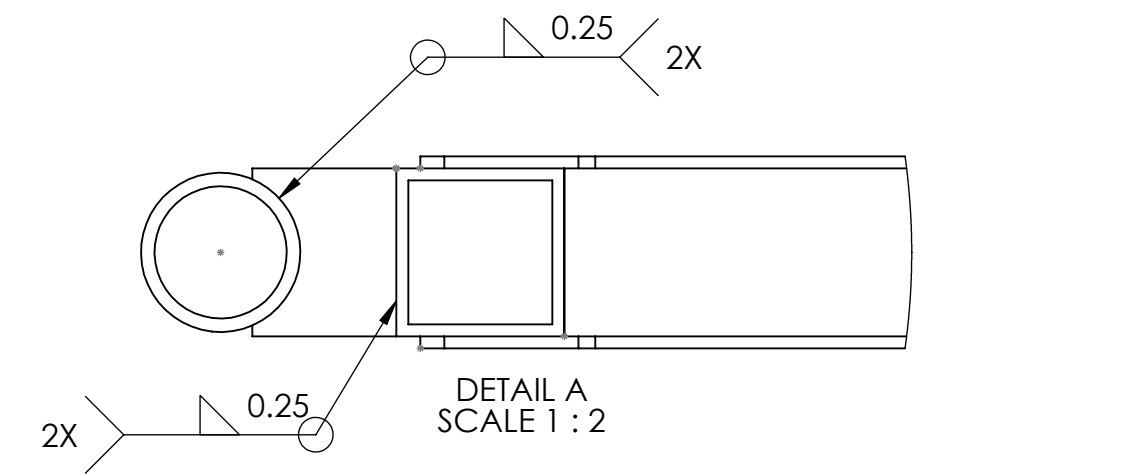
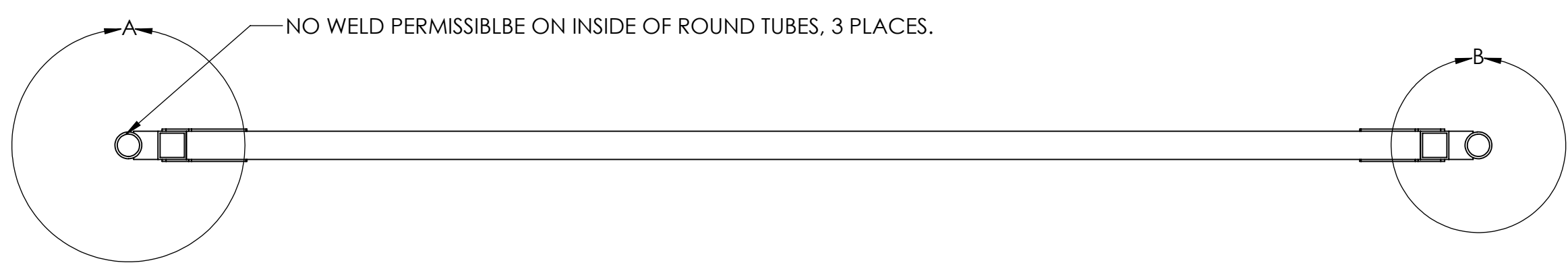




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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .02 THREE PLACE DECIMAL ± .015  <b>MATERIAL/FINISH:</b> 6061 Aluminum - 1.75" x .125" Square Box Tube and 1-1/4" Sch 40 Pipe  DO NOT SCALE DRAWING	WELD	NAME	DATE	 <b>FIRST ROBOTICS COMPETITION</b>  <small>Modeling Solutions Partner</small>						
	DRAWN	JO	8/12/2024							
	<b>PROPRIETARY AND CONFIDENTIAL</b>			TITLE:						
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.			Field Border Frame						
	<b>COMMENTS:</b>	REMOVE ALL BURRS AND SHARP EDGES.		<table border="1"> <tr> <td>SIZE</td> <td>DWG. NO.</td> <td>REV</td> </tr> <tr> <td><b>C</b></td> <td>GE-25001</td> <td>A</td> </tr> </table>	SIZE	DWG. NO.	REV	<b>C</b>	GE-25001	A
SIZE	DWG. NO.	REV								
<b>C</b>	GE-25001	A								
	SCALE: 1:8		SHEET 2 OF 5							

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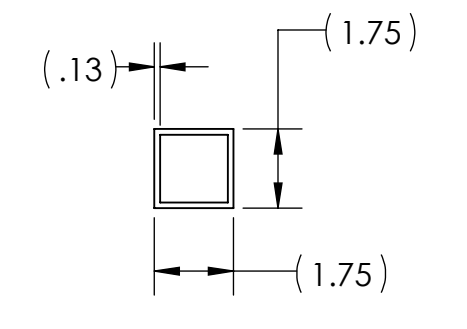
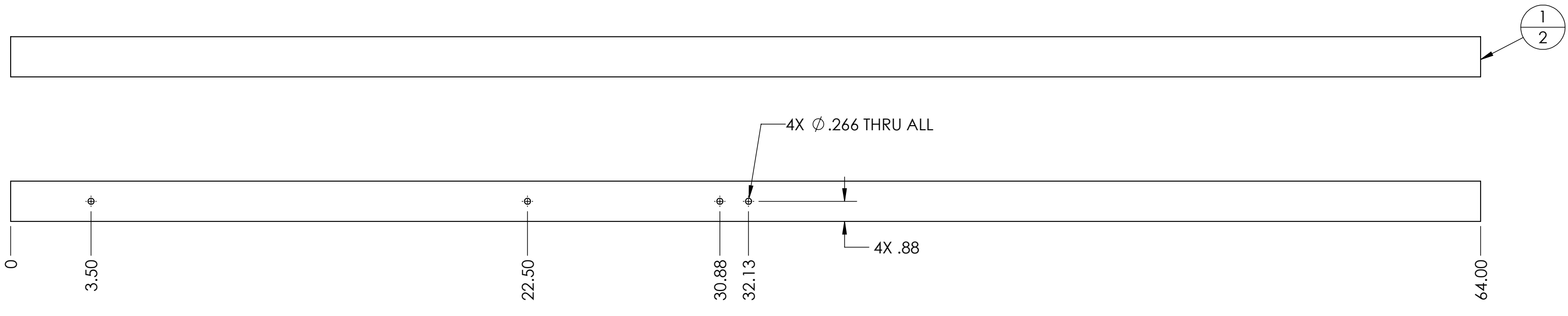
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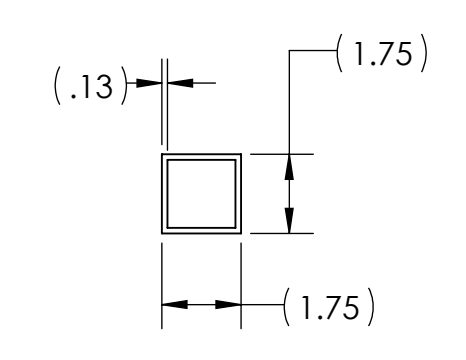
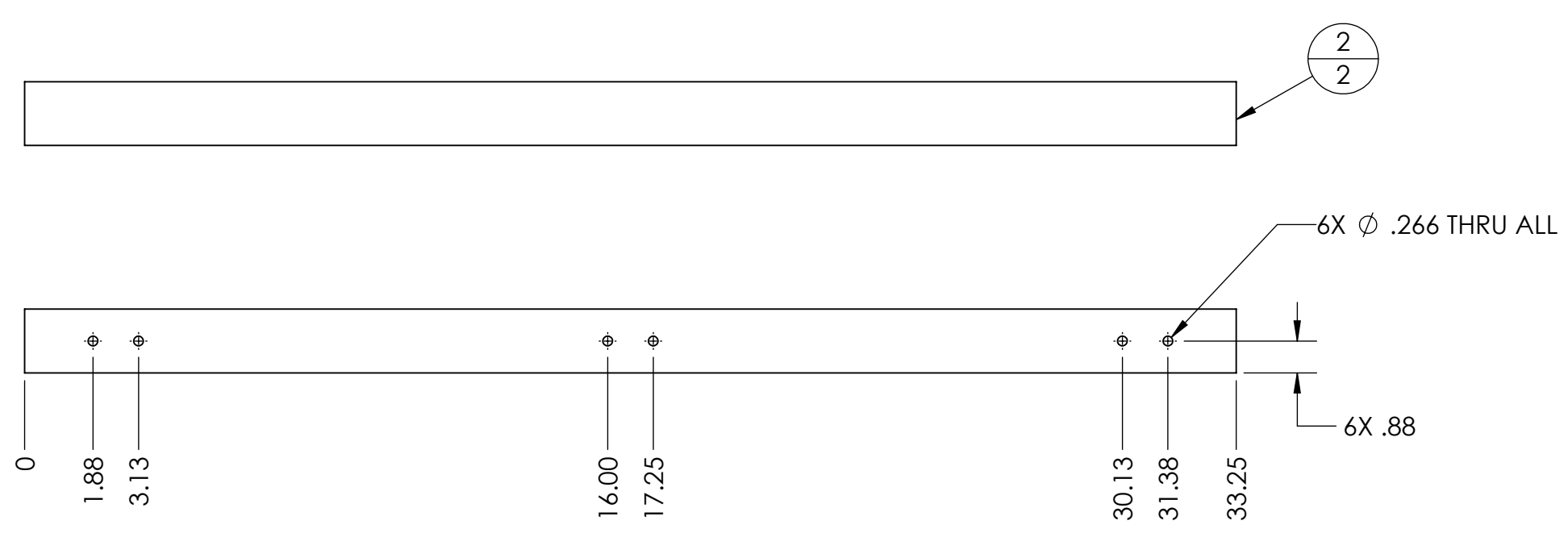
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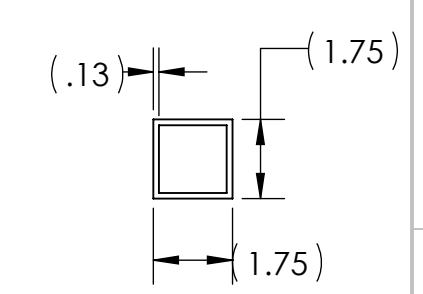
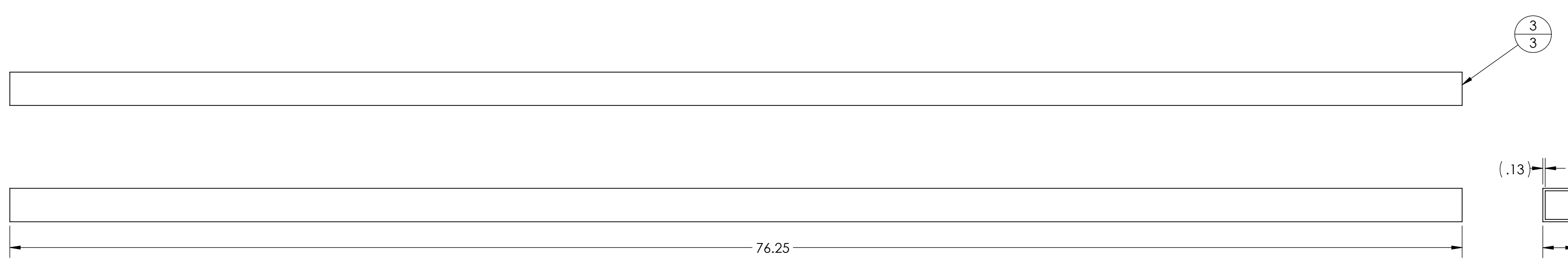
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UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .01 THREE PLACE DECIMAL ± .005  <b>MATERIAL/FINISH:</b>  6061 Aluminum 1.75" x 1.75" x .125" Square Box Tube  DO NOT SCALE DRAWING	VEND	NAME	DATE		
	DRAWN	JO	8/12/2024		
	<b>PROPRIETARY AND CONFIDENTIAL</b>  THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			TITLE:	Field Border Frame
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			SIZE DWG. NO. REV <b>C</b> GE-25001 <b>A</b>	
SCALE: 1:4.25		SHEET 3 OF 5			

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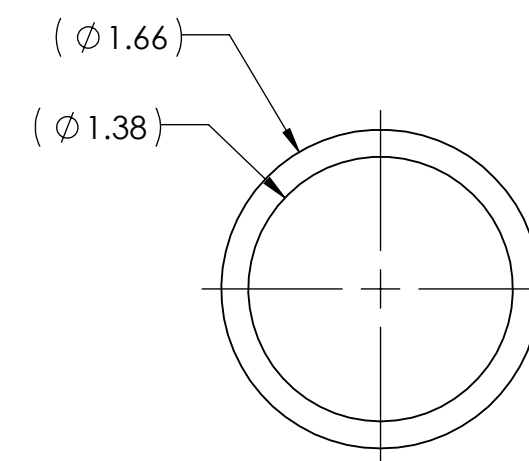
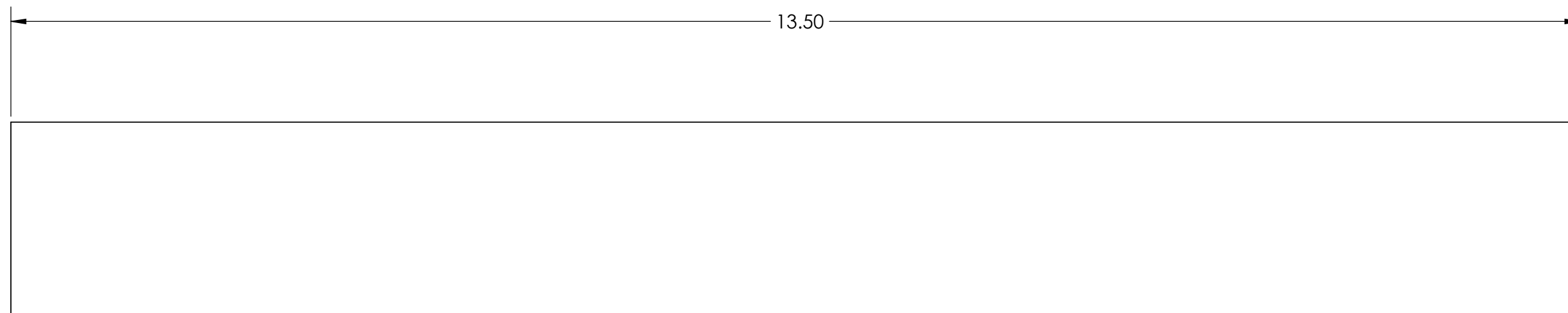
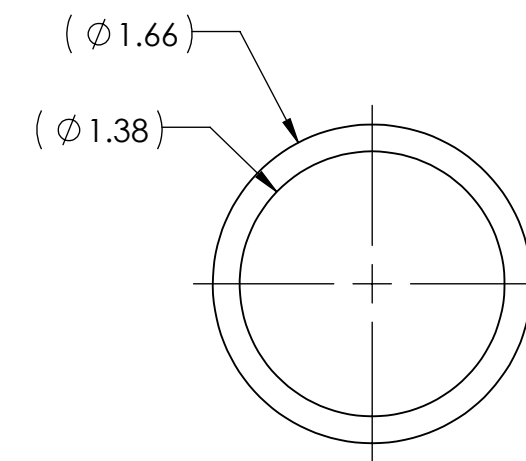
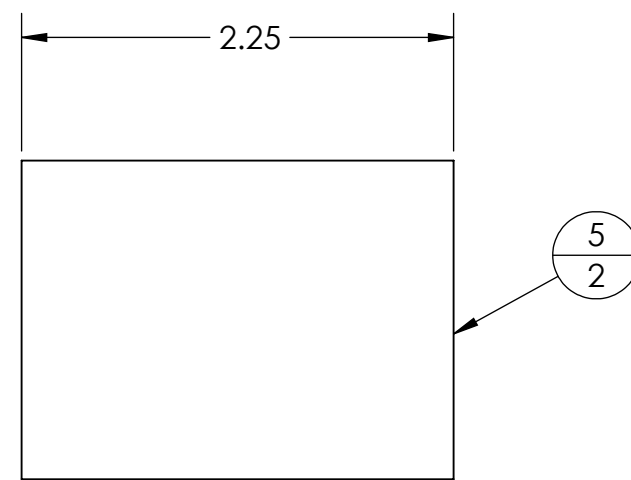
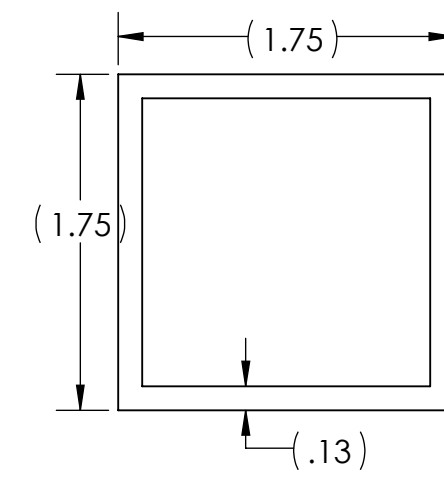
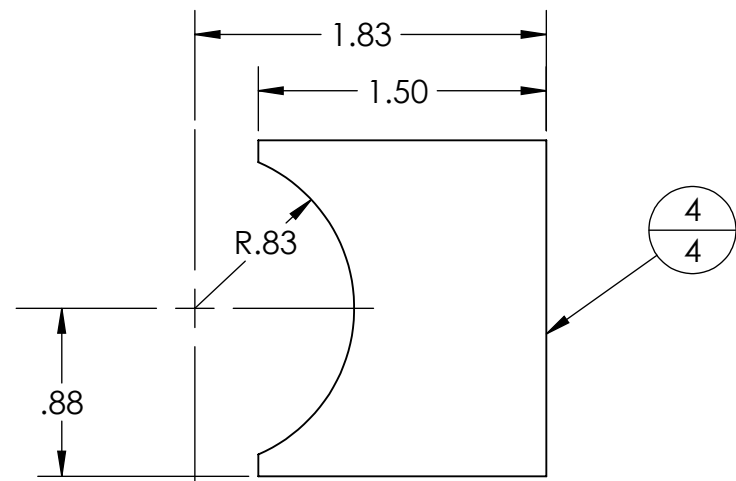
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UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .01 THREE PLACE DECIMAL ± .005  <b>MATERIAL/FINISH:</b> 6061 Aluminum - 1.75" x .125" Square Box Tube and 1-1/4" Sch 40 Pipe  DO NOT SCALE DRAWING	VEND	NAME	DATE	 	
	DRAWN	JO	8/12/2024		
	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.				TITLE:
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.				Field Border Frame  SIZE: <b>C</b> DWG. NO.: GE-25001 REV: <b>A</b> SCALE: 1:1 SHEET 4 OF 5

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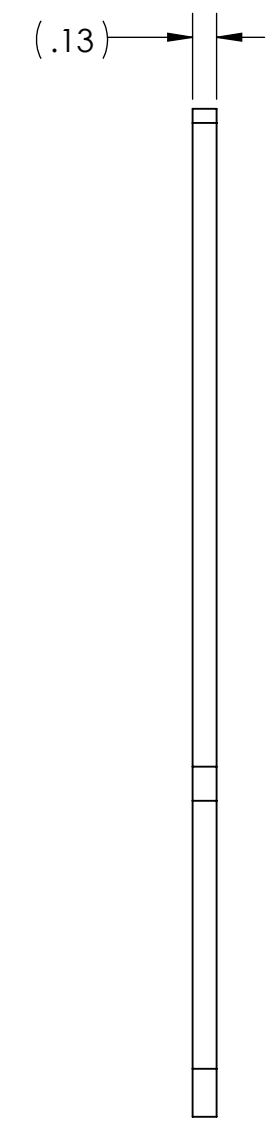
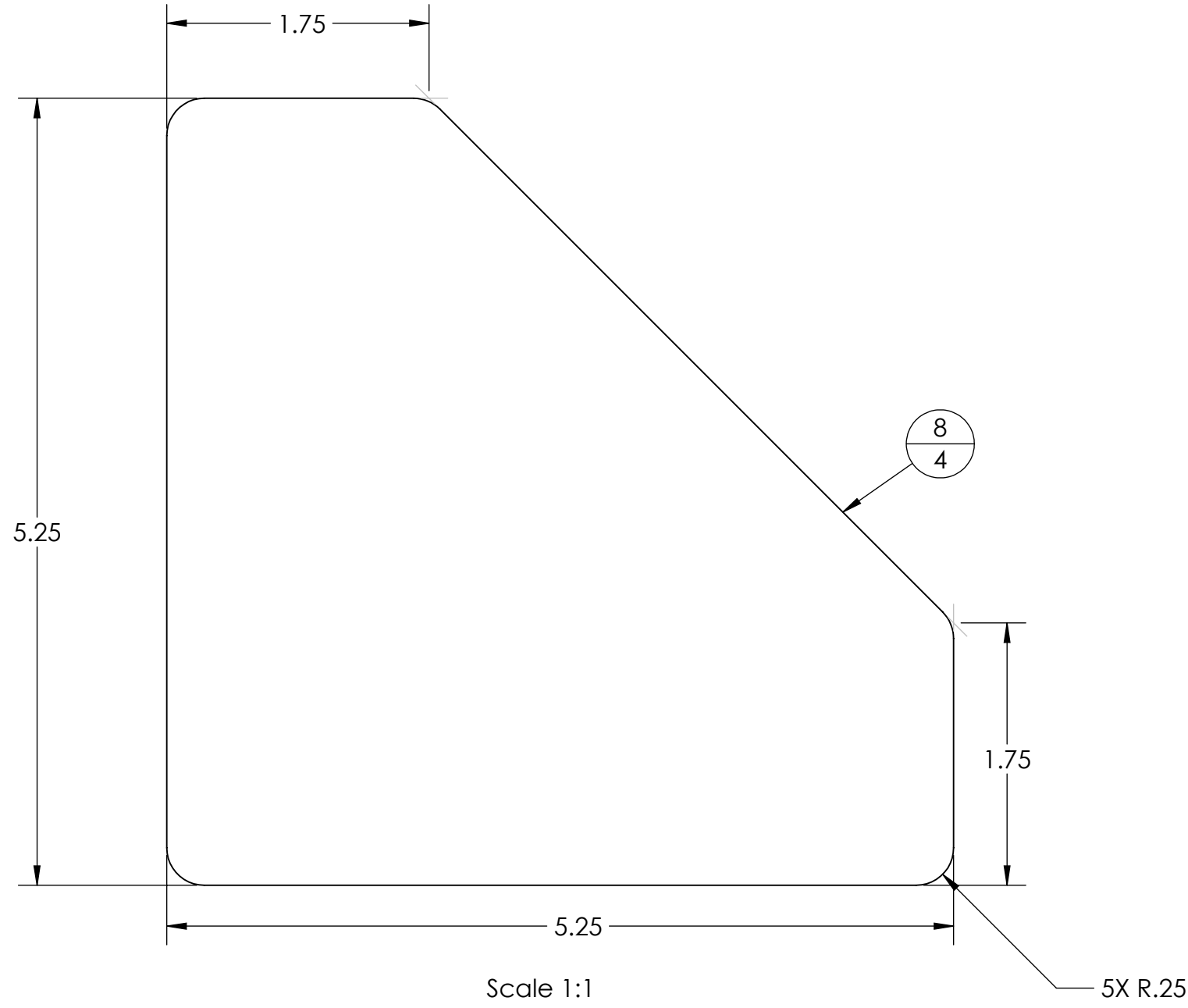
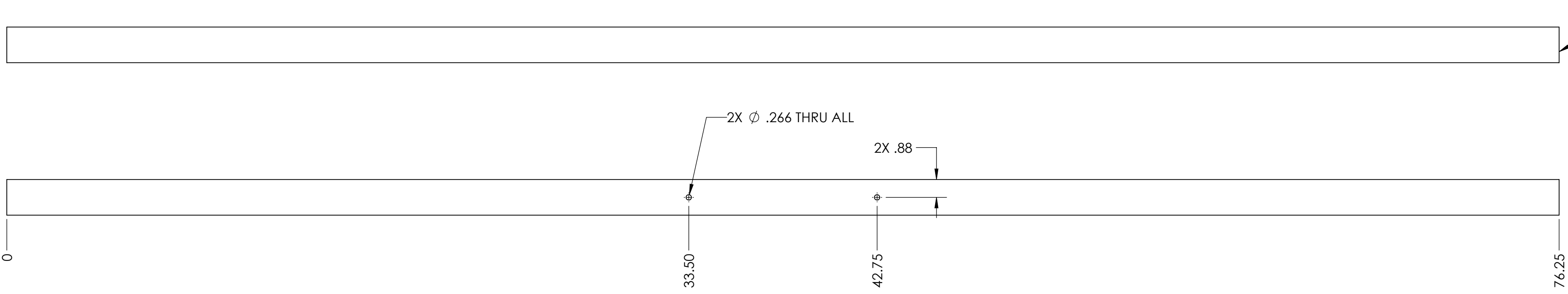
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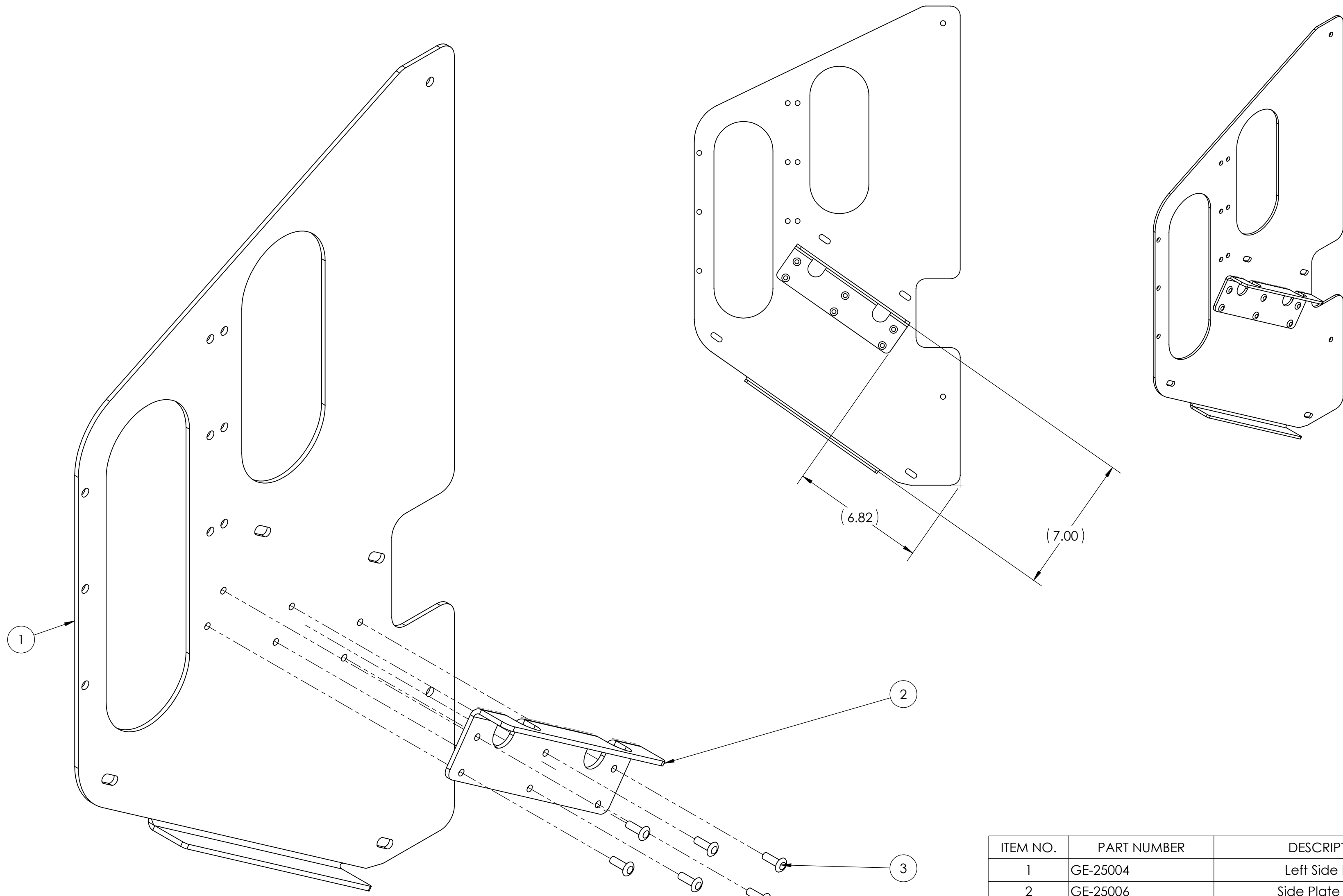
UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .01 THREE PLACE DECIMAL ± .005  <b>MATERIAL/FINISH:</b> 1.75" x 1.75" x .125" 6061 Aluminum Square Box Tube and 1/8" 6061 Aluminum Plate  DO NOT SCALE DRAWING	VEND	NAME	DATE	 <b>FIRST ROBOTICS COMPETITION</b>  <b>SOLIDWORKS</b> <small>Modeling Solutions Partner</small>
	DRAWN	JO	8/12/2024	
<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.				TITLE: <b>Field Border Frame</b>
<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		SIZE	DWG. NO.	REV
		<b>C</b>	GE-25001	<b>A</b>
SCALE: 1:4			SHEET 5 OF 5	

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25004	Left Side Plate	1
2	GE-25006	Side Plate Angle	1
3	rivet_.1875_.251-.375	3/16" Aluminum Rivet, .251-.375 Grip Range	6

UNLESS OTHERWISE SPECIFIED:		
DIMENSIONS ARE IN INCHES		
TOLERANCES:		
FRACTIONAL ±1/16		
ANGULAR: MACH±1° BEND ±1°		
TWO PLACE DECIMAL ±.01		
THREE PLACE DECIMAL ±.005		
<b>MATERIAL/FINISH:</b>		
DO NOT SCALE DRAWING		
VEND	NAME	DATE
DRAWN	BB	8/13/2024
<b>PROPRIETARY AND CONFIDENTIAL</b>		
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.		
<b>COMMENTS:</b>		
REMOVE ALL BURRS AND SHARP EDGES.		

**FIRST ROBOTICS COMPETITION** **SOLIDWORKS** Modeling Solutions Partner

TITLE:  
**Left Side Plate Assembly**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25002	

SCALE: 1:8 SHEET 1 OF 1

NOTE: ASSEMBLE AS SHOWN LABEL WITH PART NUMBER



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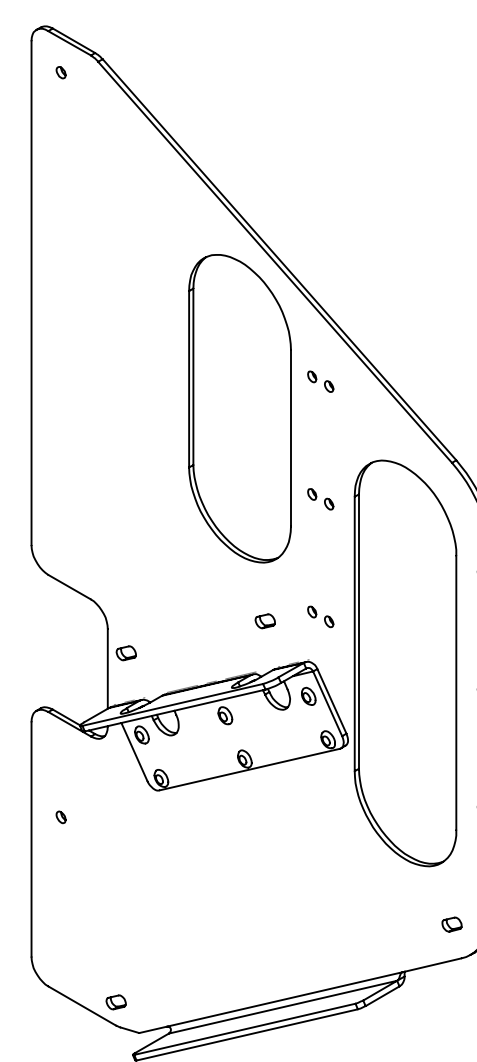
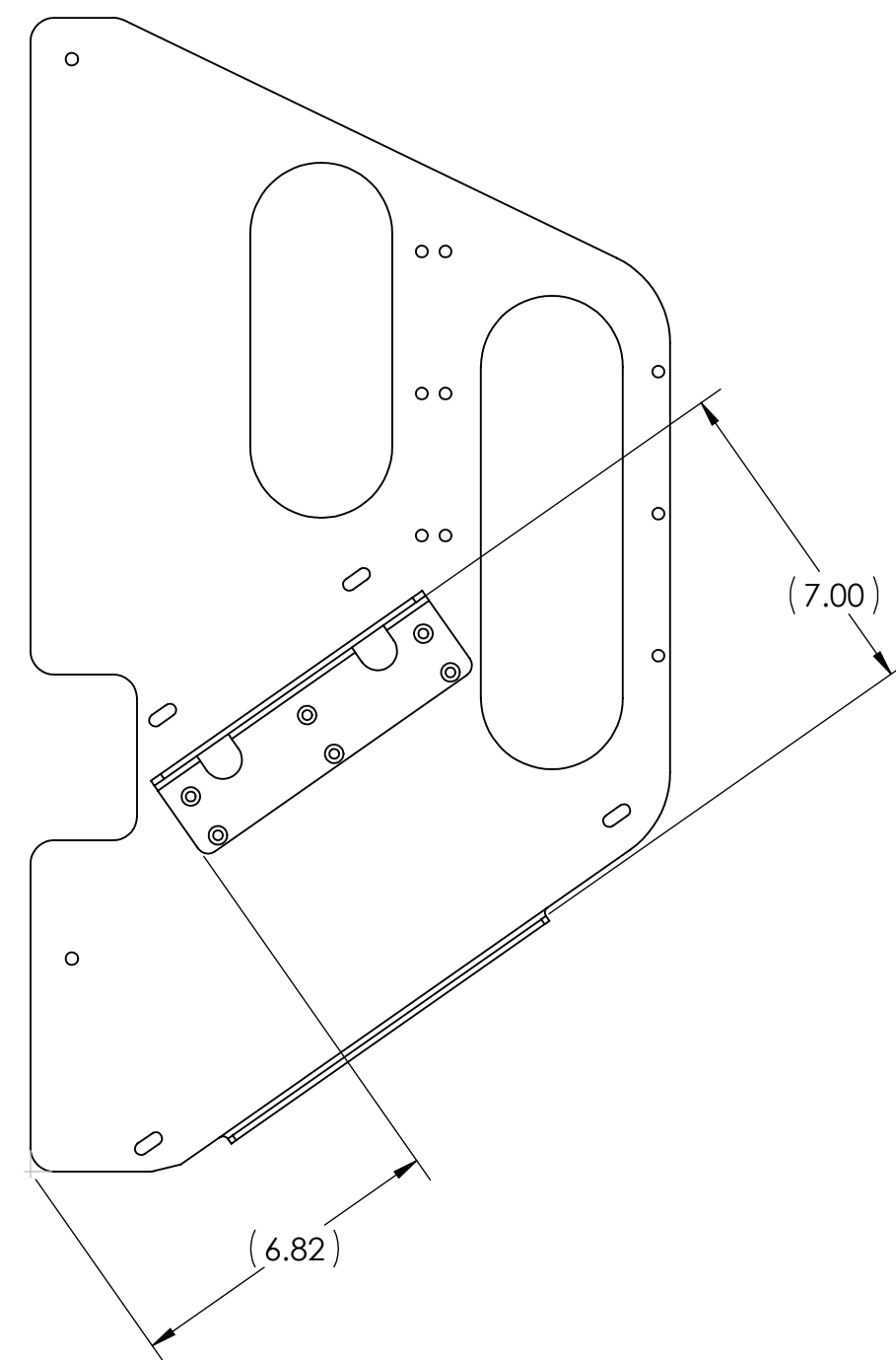
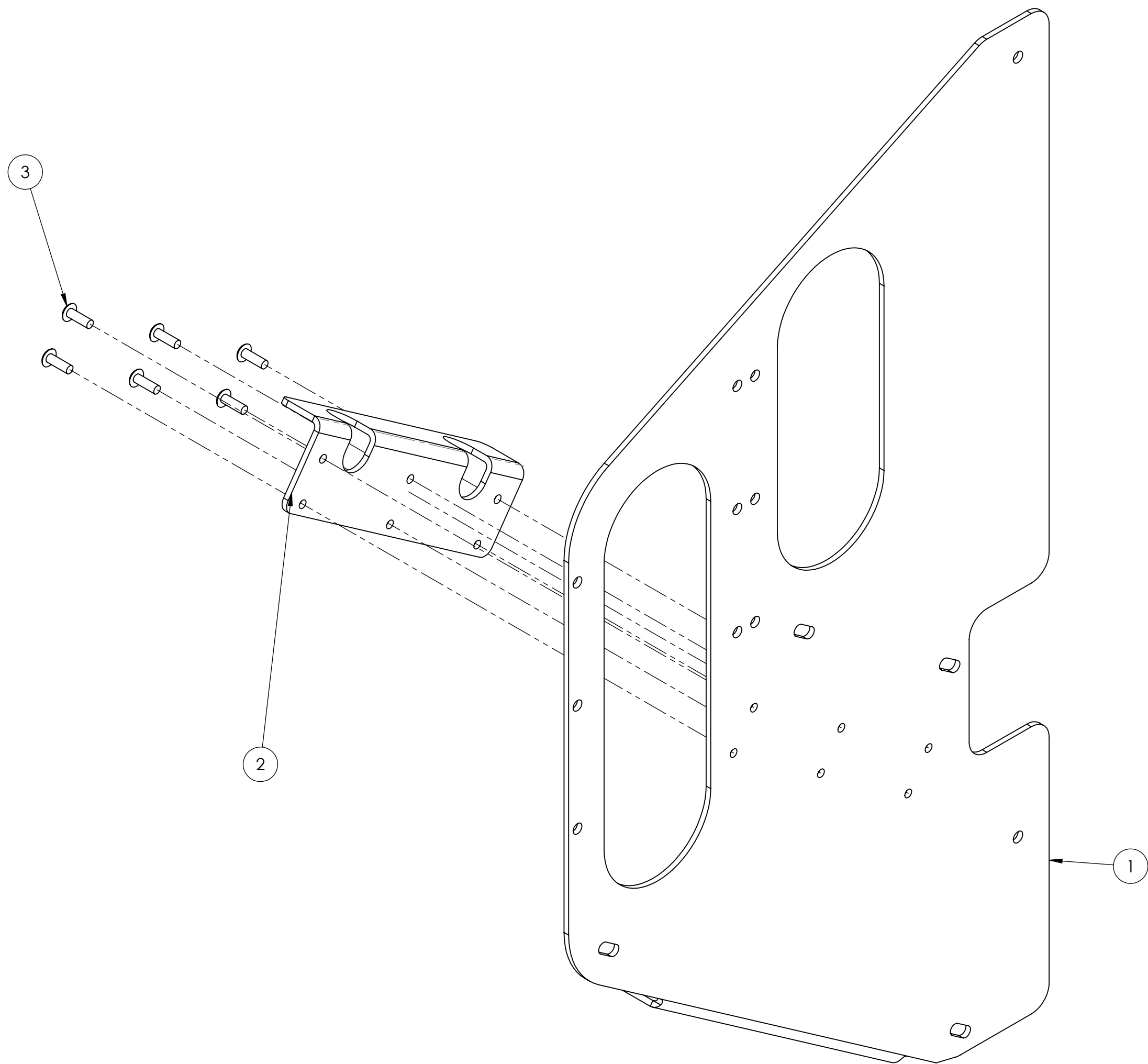
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NOTE: ASSEMBLE AS SHOWN  
LABEL WITH PART NUMBER

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25005	Right Side Plate	1
2	GE-25006	Side Plate Angle	1
3	rivet_.1875_.251-.375	3/16" Aluminum Rivet, .251-.375 Grip Range	6

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
TOLERANCES:  
FRACTIONAL  $\pm 1/16$   
ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
TWO PLACE DECIMAL  $\pm .01$   
THREE PLACE DECIMAL  $\pm .005$

**MATERIAL/FINISH:**

DO NOT SCALE DRAWING

VEND	NAME	DATE
	BB	8/13/2024

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**COMMENTS:**

REMOVE ALL BURRS AND SHARP EDGES.



TITLE:  
**Right Side Plate Assembly**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25003	

SCALE: 1:8 SHEET 1 OF 1

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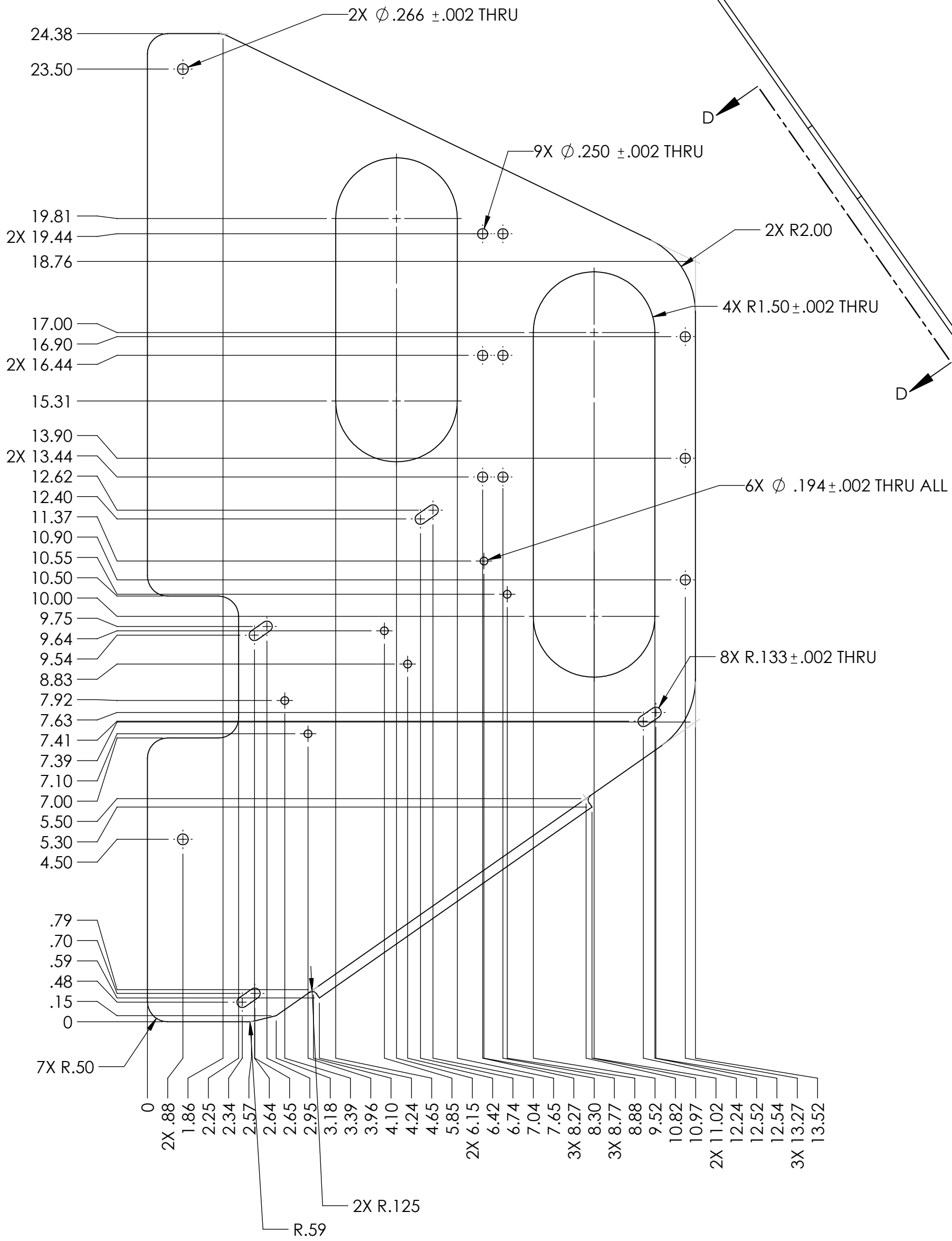
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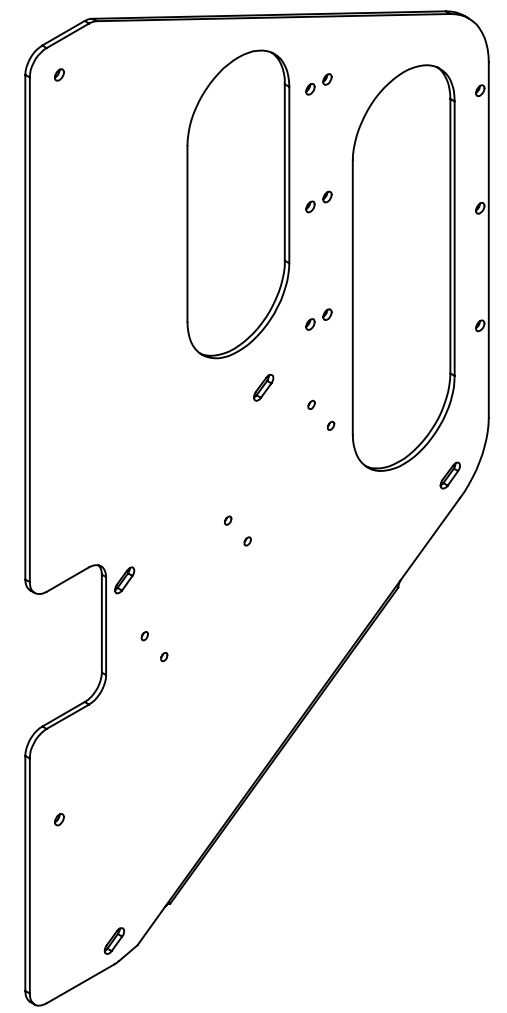
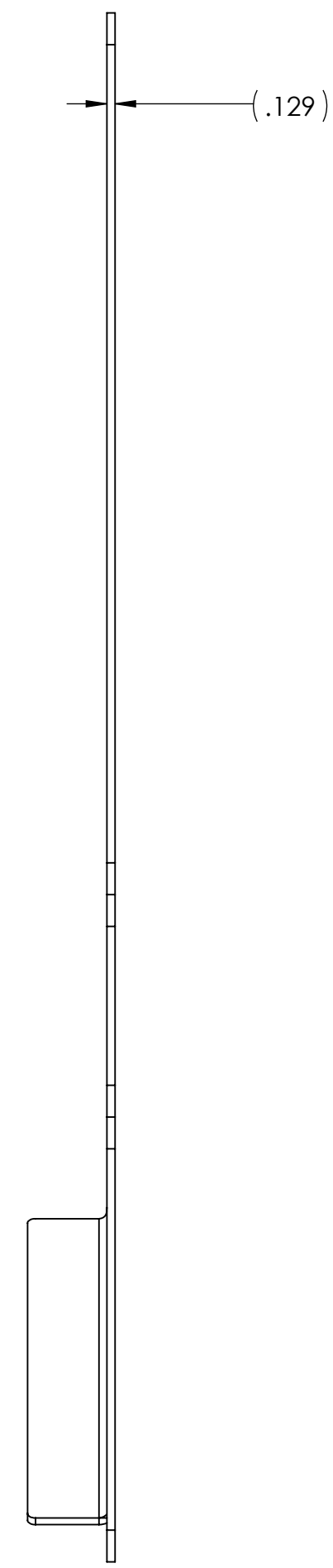
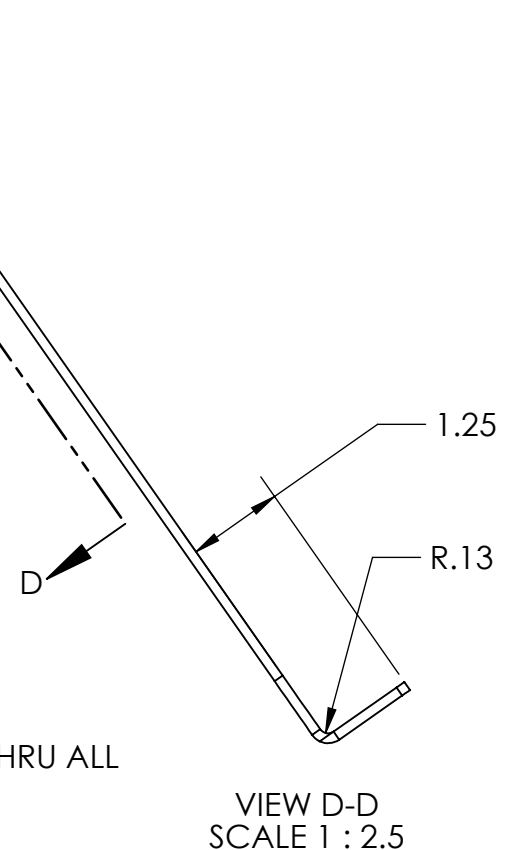
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NOTE: FOLLOW DXF FILE FOR CUTS



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .02$ THREE PLACE DECIMAL $\pm .010$	BEND	NAME	DATE	 
	DRAWN	BB	8/12/2024	
<b>MATERIAL/FINISH:</b> 8 Ga 5052 Aluminum	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.			TITLE: <b>Left Side Plate</b>
<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.	DO NOT SCALE DRAWING			SIZE DWG. NO. REV <b>C</b> GE-25004
SCALE: 1:8			SHEET 1 OF 1	

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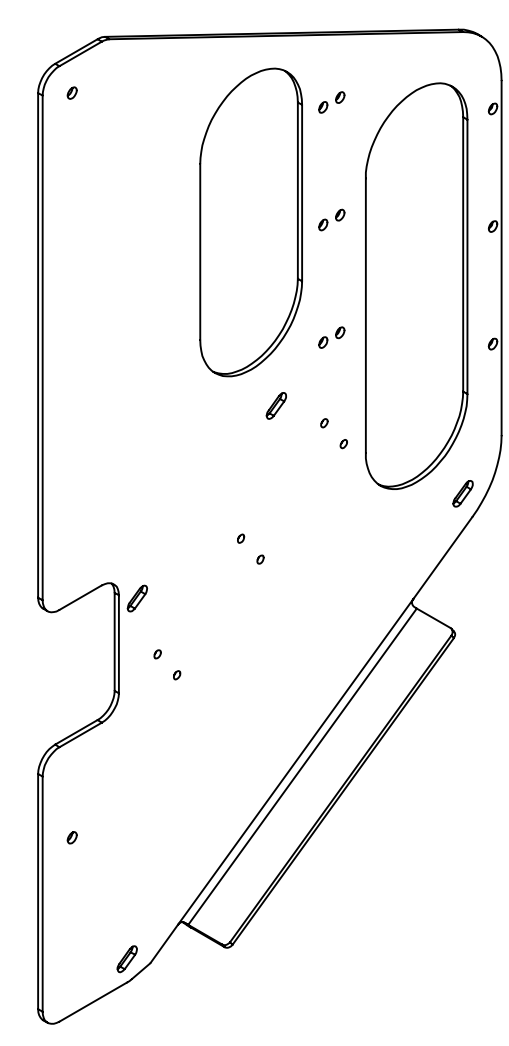
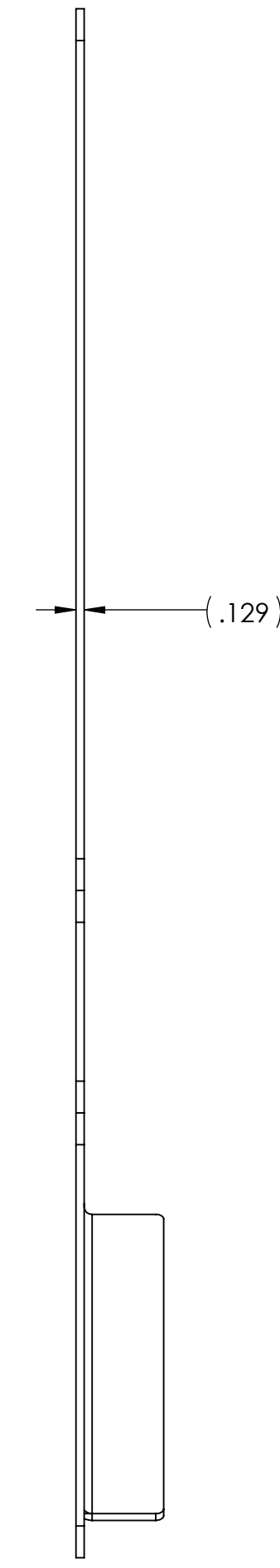
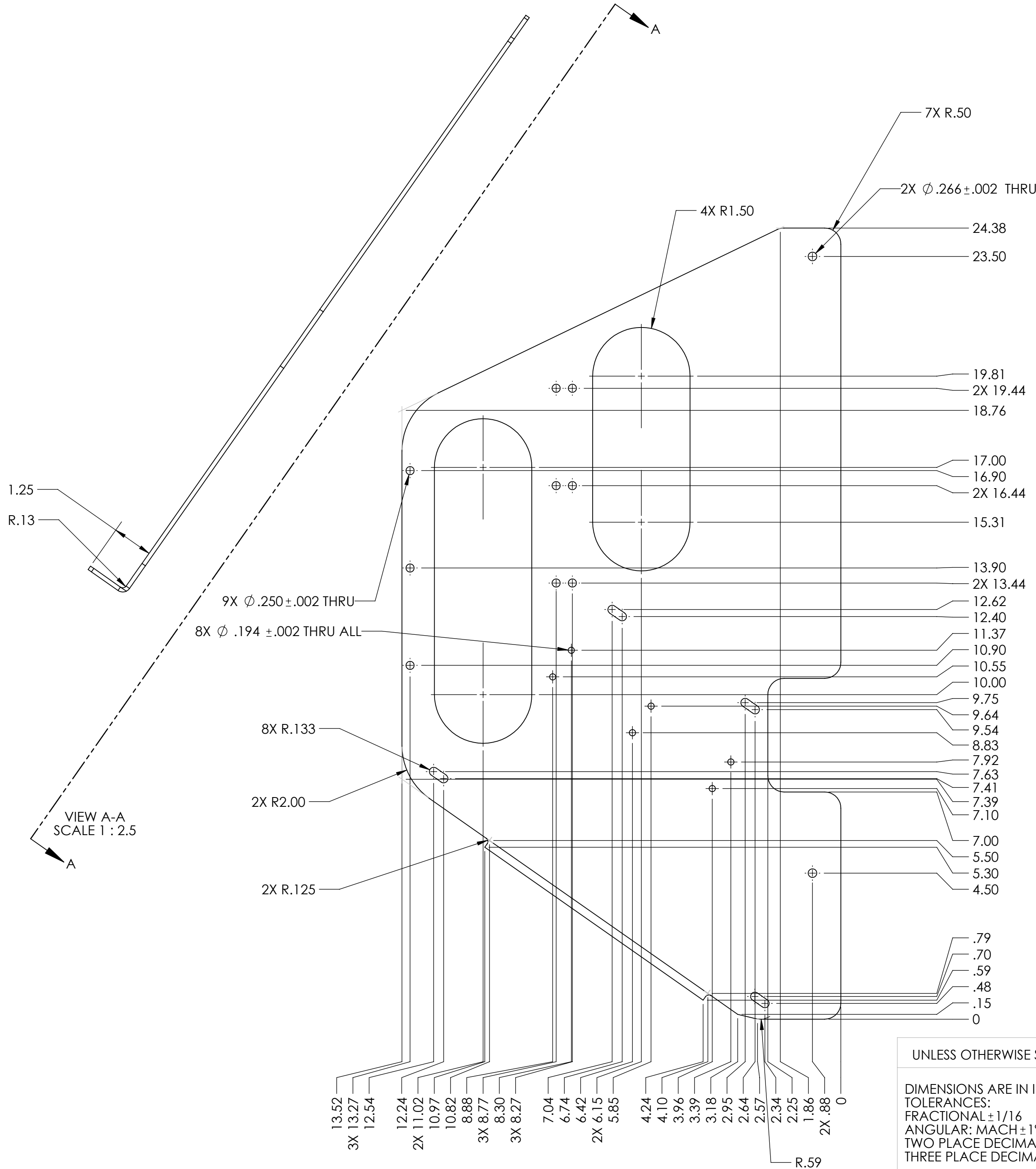
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NOTE: FOLLOW DXF FILE FOR CUTS

UNLESS OTHERWISE SPECIFIED:		VEND	NAME	DATE
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm$ 1/16 ANGULAR: MACH $\pm$ 1° BEND $\pm$ 1° TWO PLACE DECIMAL $\pm$ .01 THREE PLACE DECIMAL $\pm$ .005		DRAWN	BB	8/13/2024
<b>MATERIAL/FINISH:</b> 8 Ga 5052 Aluminum		<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> ®. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> ® IS PROHIBITED.		
DO NOT SCALE DRAWING		<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		
		TITLE: <b>Right Side Plate</b>		
SIZE	DWG. NO.	REV		
<b>C</b>	GE-25005			
SCALE: 1:8		SHEET 1 OF 1		



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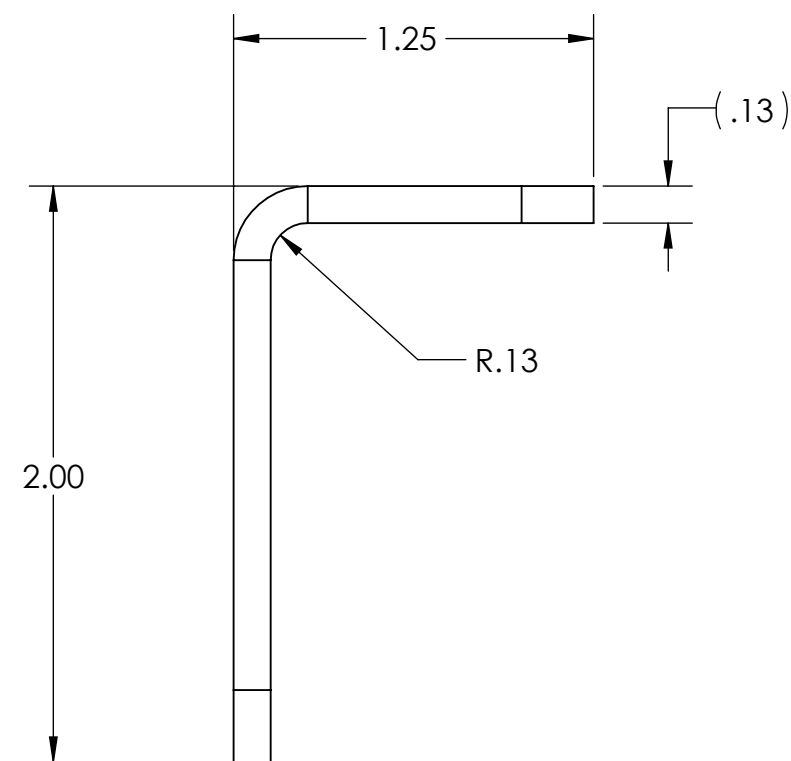
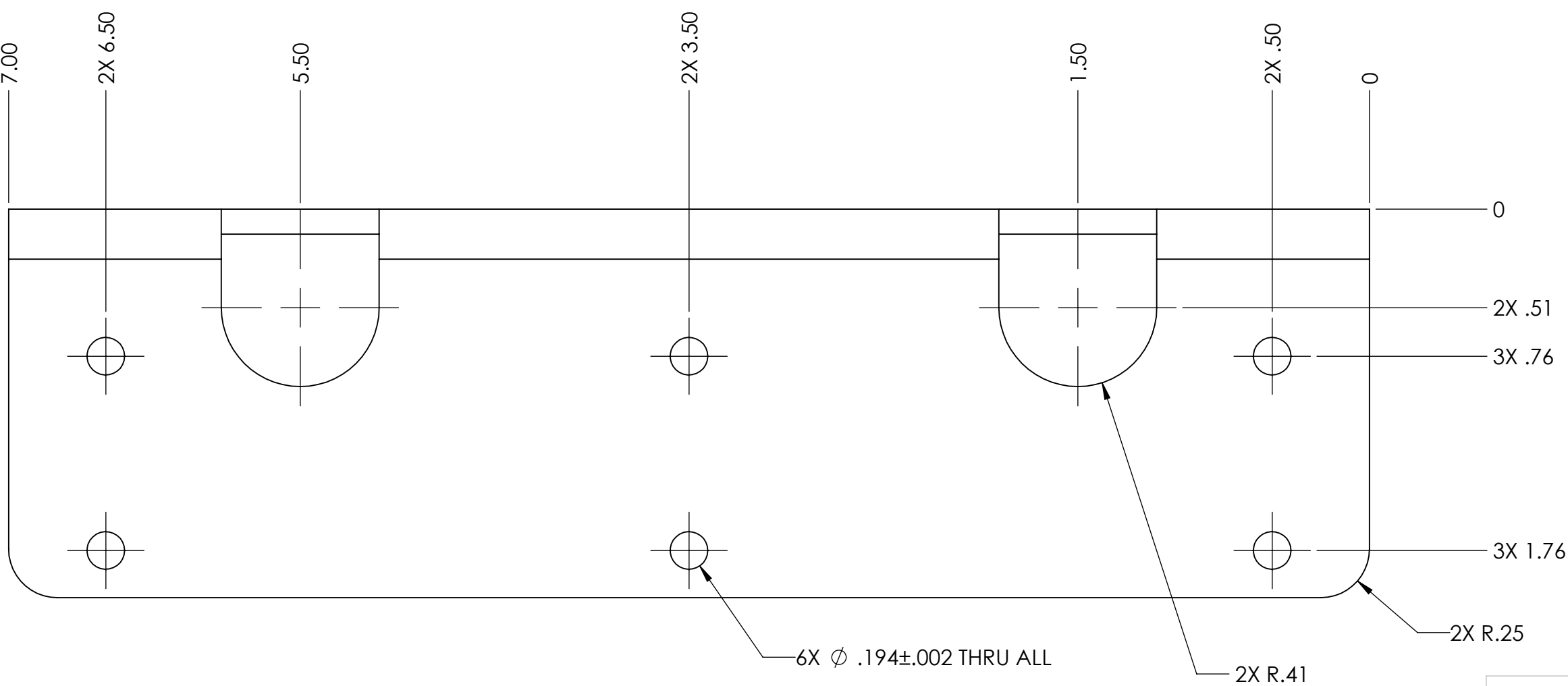
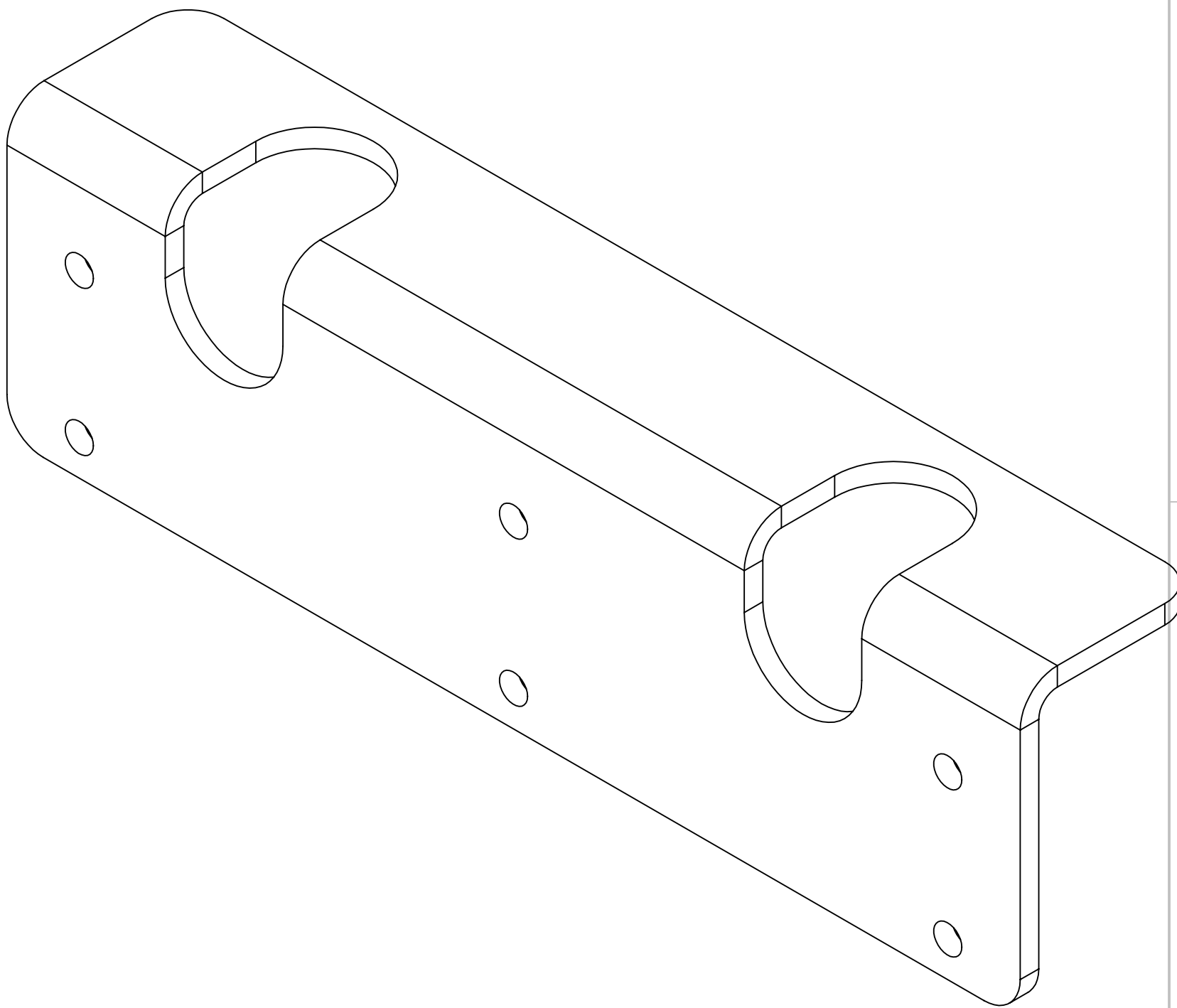
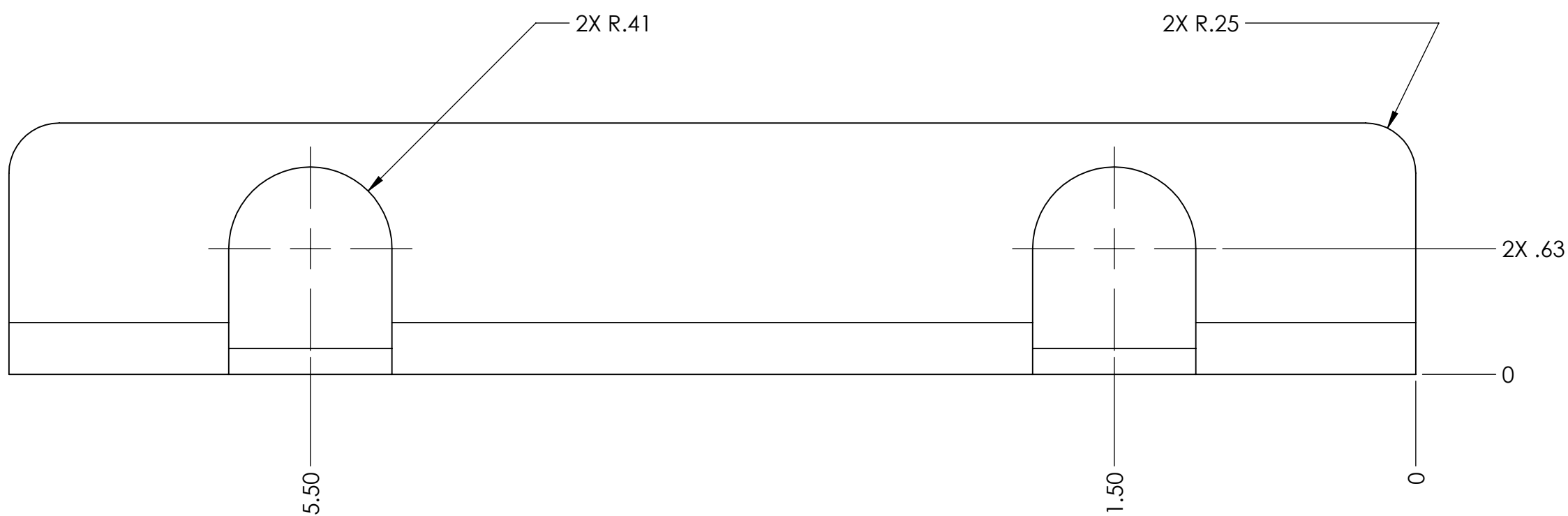
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UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ± 1/16  
 ANGULAR: MACH ± 1° BEND ± 1°  
 TWO PLACE DECIMAL ± .02  
 THREE PLACE DECIMAL ± .010

**MATERIAL/FINISH:**  
 8 Ga 5052 Aluminum

DO NOT SCALE DRAWING

BEND	NAME	DATE
DRAWN	JO	8/12/2024

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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.



TITLE:  
**Side Plate Angle**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25006	

SCALE: 1.5:1 SHEET 1 OF 1

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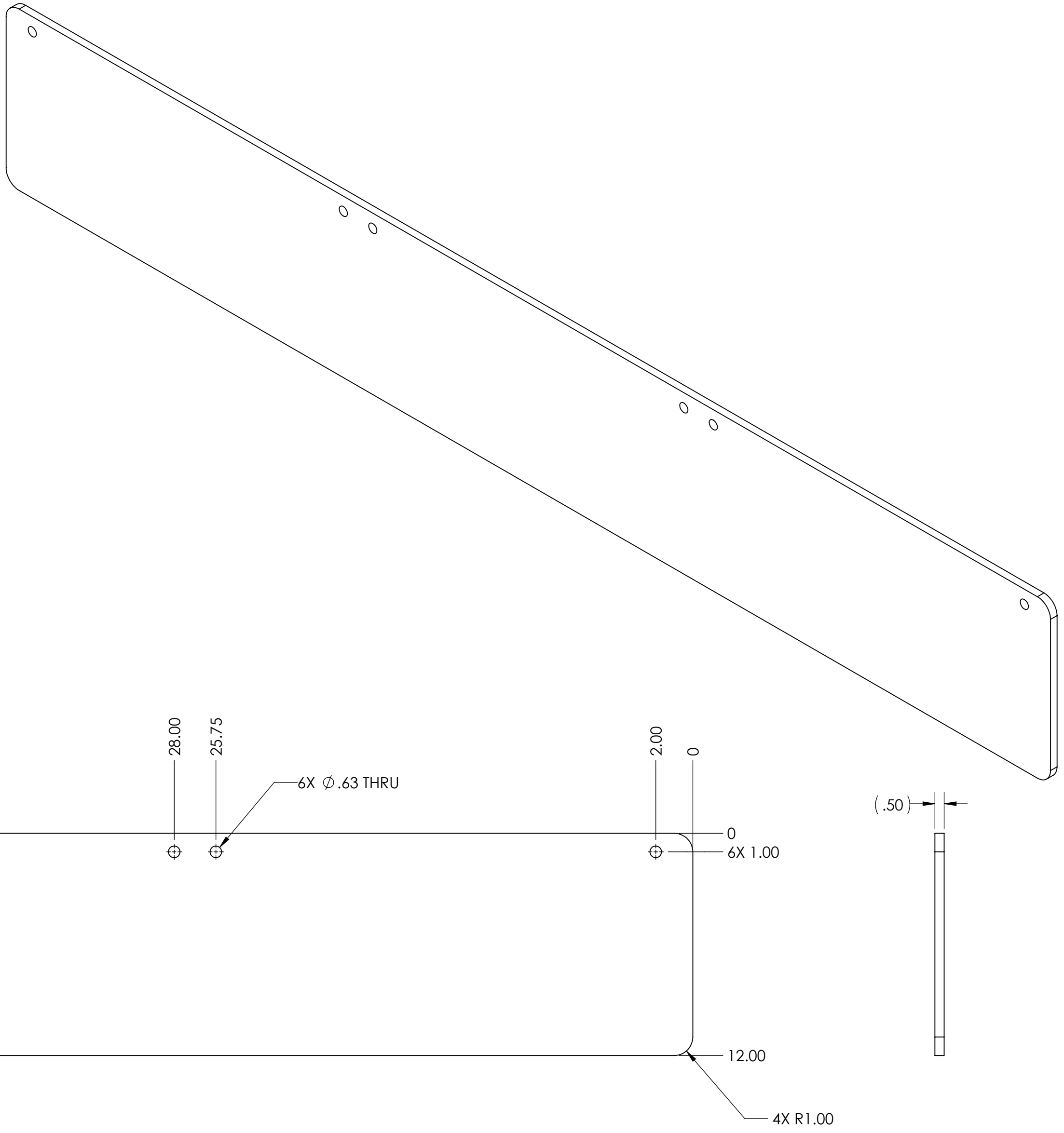
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79.75  
77.75  
54.00  
51.75  
28.00  
25.75  
6X Ø.63 THRU  
2.00  
0  
6X 1.00  
12.00  
4X R1.00  
(.50)

NOTE: LABEL WITH PART NUMBER

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005  <b>MATERIAL/FINISH:</b> 1/2" Polycarbonate  DO NOT SCALE DRAWING	VEND	NAME	DATE	 
	DRAWN	JO	8/12/2024	
<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.				TITLE: <b>Bumper Plastic</b>
		SIZE	DWG. NO.	REV
		<b>C</b>	GE-25007	
SCALE: 1:5			SHEET 1 OF 1	



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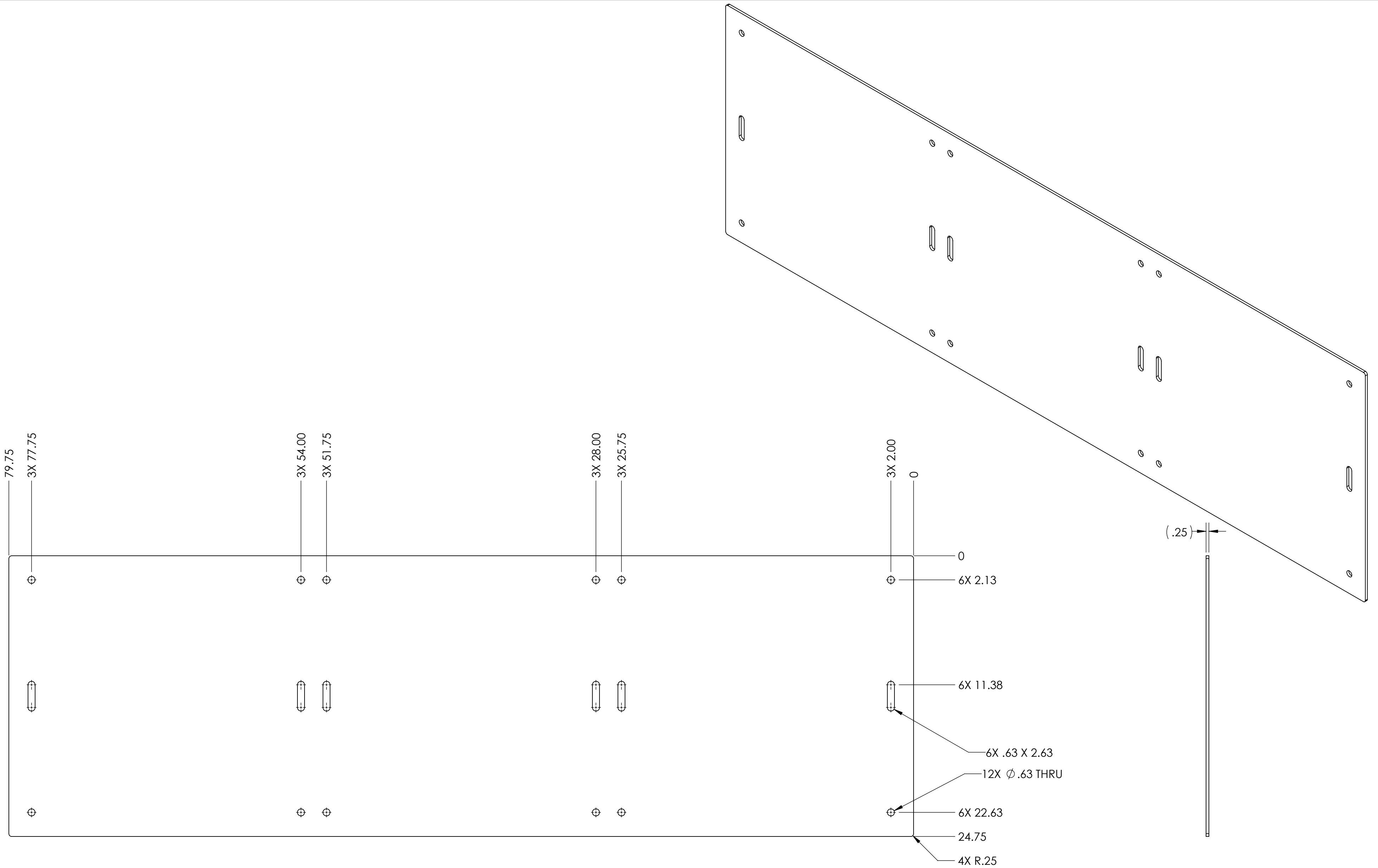
C

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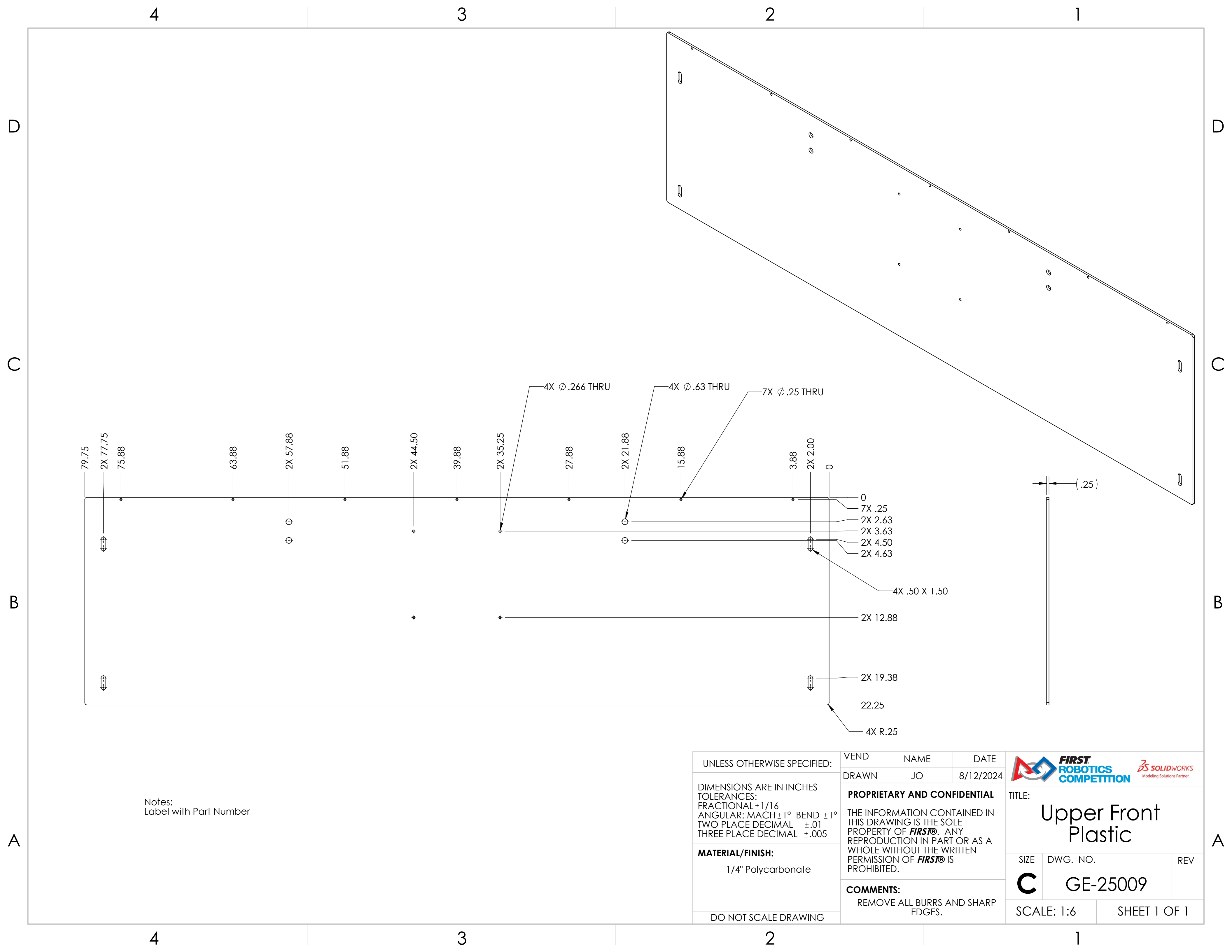
A

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NOTE: LABEL WITH PART NUMBER

UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .005$  <b>MATERIAL/FINISH:</b> 1/4" Polycarbonate  DO NOT SCALE DRAWING	VEND	NAME	DATE		
	DRAWN	JO	8/12/2024		
	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.				TITLE:
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.				Lower Front Plastic  SIZE DWG. NO. REV <b>C</b> GE-25008 SCALE: 1:6 SHEET 1 OF 1



- 79.75
- 2X 77.75
- 75.88
- 63.88
- 2X 57.88
- 51.88
- 2X 44.50
- 39.88
- 2X 35.25
- 27.88
- 2X 21.88
- 15.88
- 3.88
- 2X 2.00
- 0
- 7X .25
- 2X 2.63
- 2X 3.63
- 2X 4.50
- 2X 4.63
- 4X .50 X 1.50
- 2X 12.88
- 2X 19.38
- 22.25
- 4X R.25



4X  $\phi$  .266 THRU

4X  $\phi$  .63 THRU

7X  $\phi$  .25 THRU

(.25)

Notes:  
Label with Part Number

UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .005$  <b>MATERIAL/FINISH:</b>  1/4" Polycarbonate  DO NOT SCALE DRAWING	VEND	NAME	DATE	 
	DRAWN	JO	8/12/2024	
	<b>PROPRIETARY AND CONFIDENTIAL</b>			TITLE:
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.			Upper Front Plastic
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			SIZE DWG. NO. REV <b>C</b> GE-25009
	SCALE: 1:6		SHEET 1 OF 1	

4

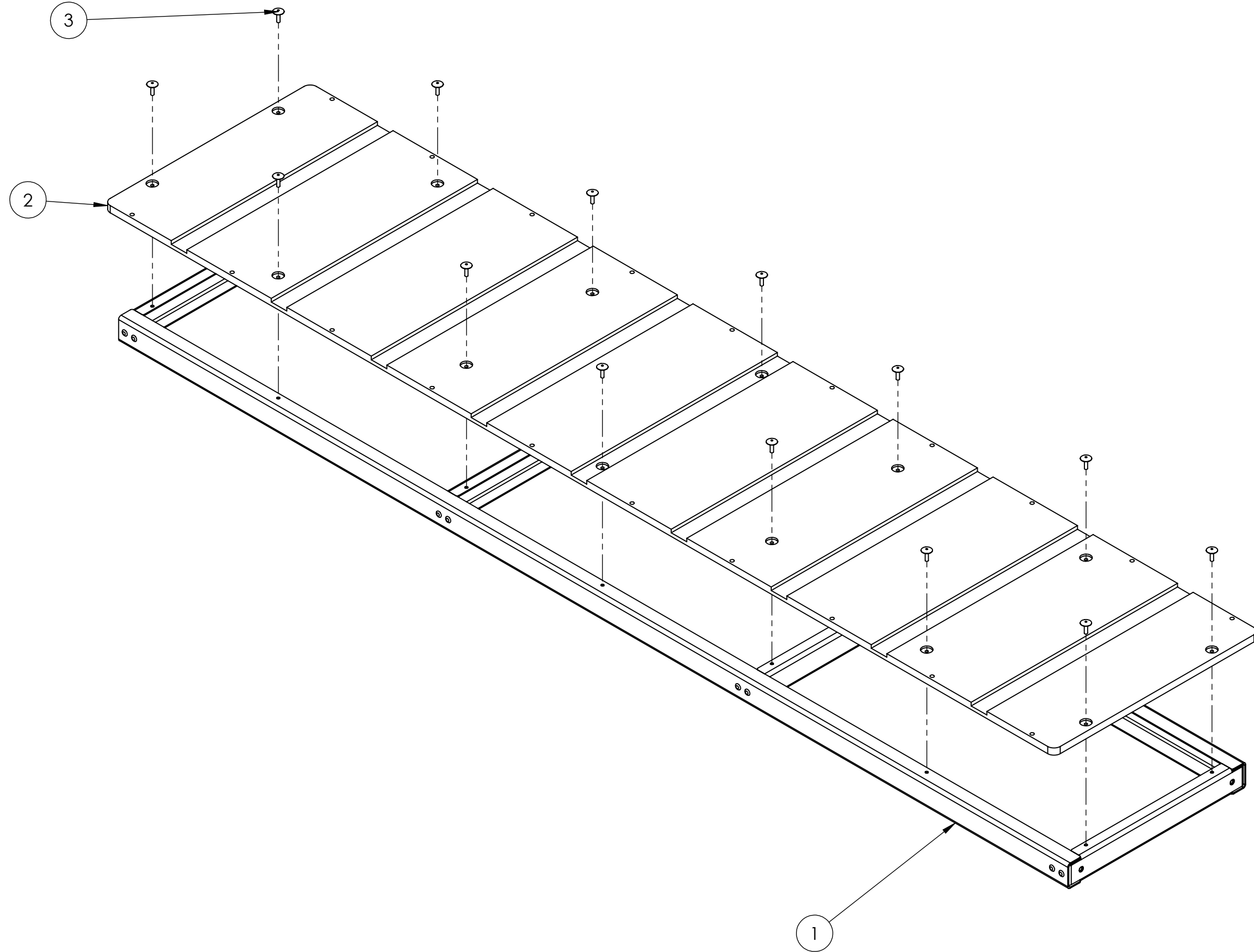
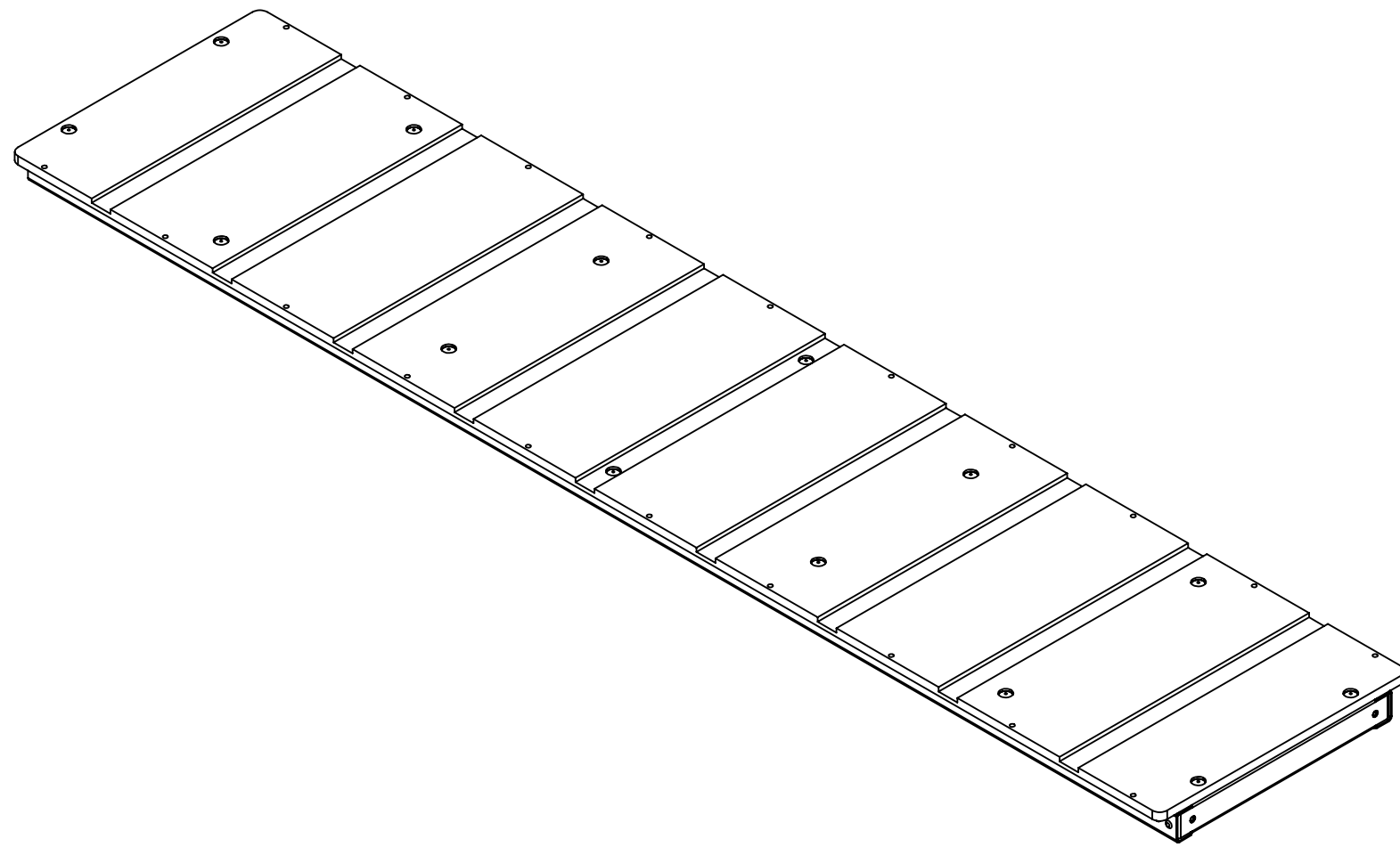
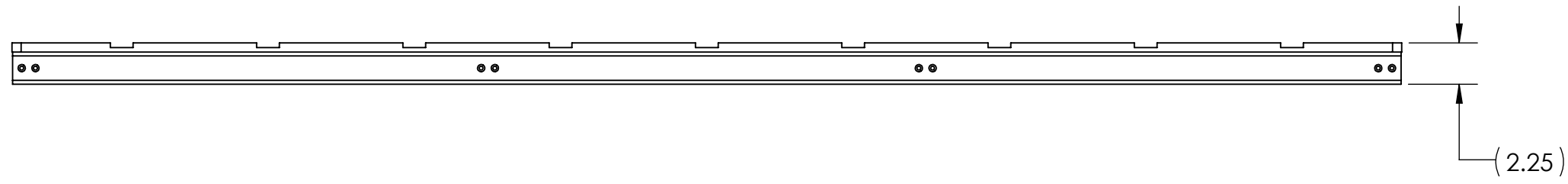
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25011	Chute Ramp Frame	1
2	GE-25014	Chute Ramp HDPE	1
3	rivet_.1875_.376-.500_largeHead	3/16" Large Head Aluminum Rivet, .251-.375 Grip Range	14

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL  $\pm 1/16$   
 ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
 TWO PLACE DECIMAL  $\pm .01$   
 THREE PLACE DECIMAL  $\pm .005$

MATERIAL/FINISH:

DO NOT SCALE DRAWING

VEND	NAME	DATE
	BB	8/13/2024

**PROPRIETARY AND CONFIDENTIAL**  
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF **FIRST**. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF **FIRST** IS PROHIBITED.

**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.



TITLE:  
**Chute Ramp Assembly**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25010	

SCALE: 1:8 SHEET 1 OF 1

NOTES:  
 1. ASSEMBLE AS SHOWN  
 2. LABEL ASSEMBLY WITH PART NUMBER

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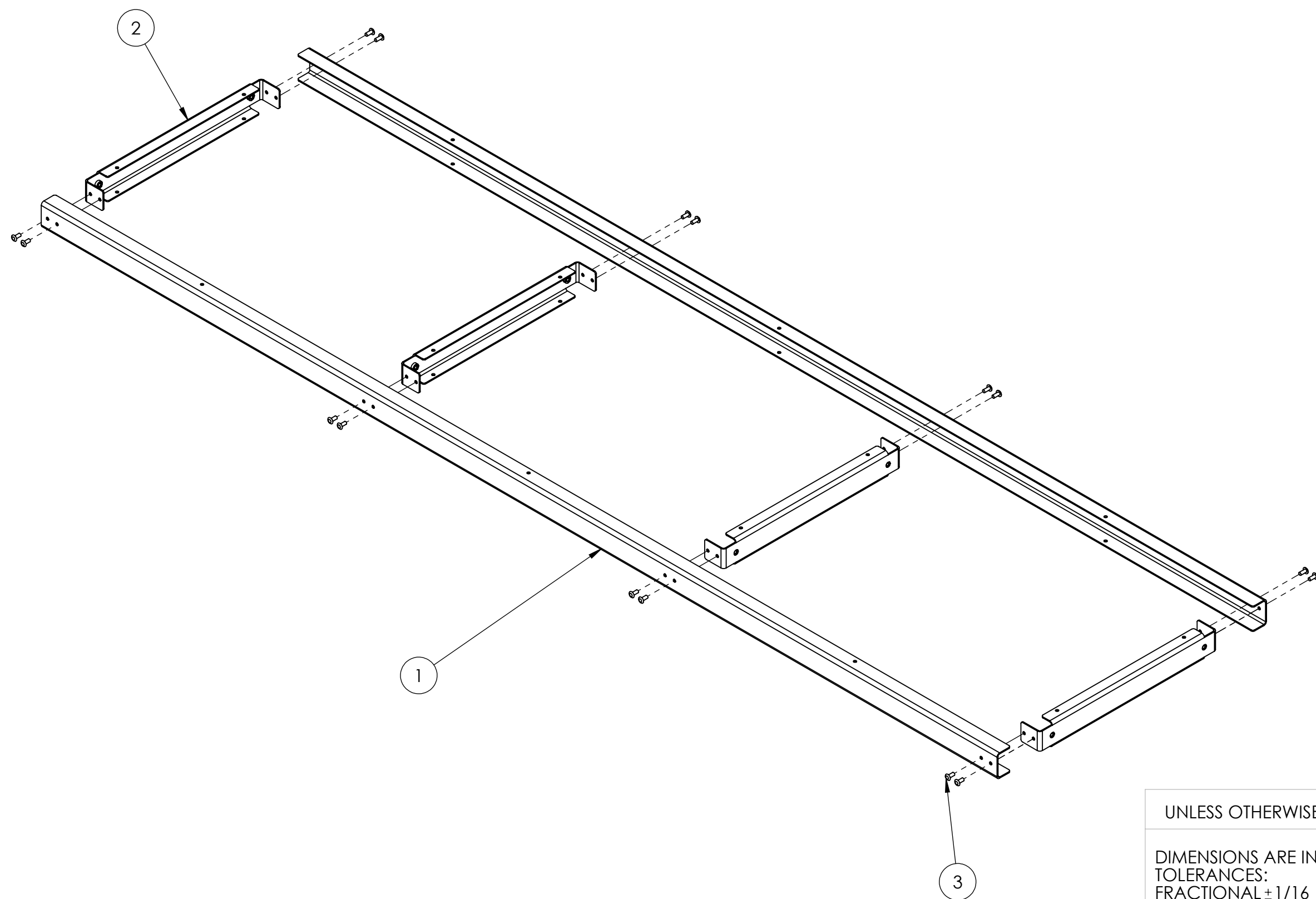
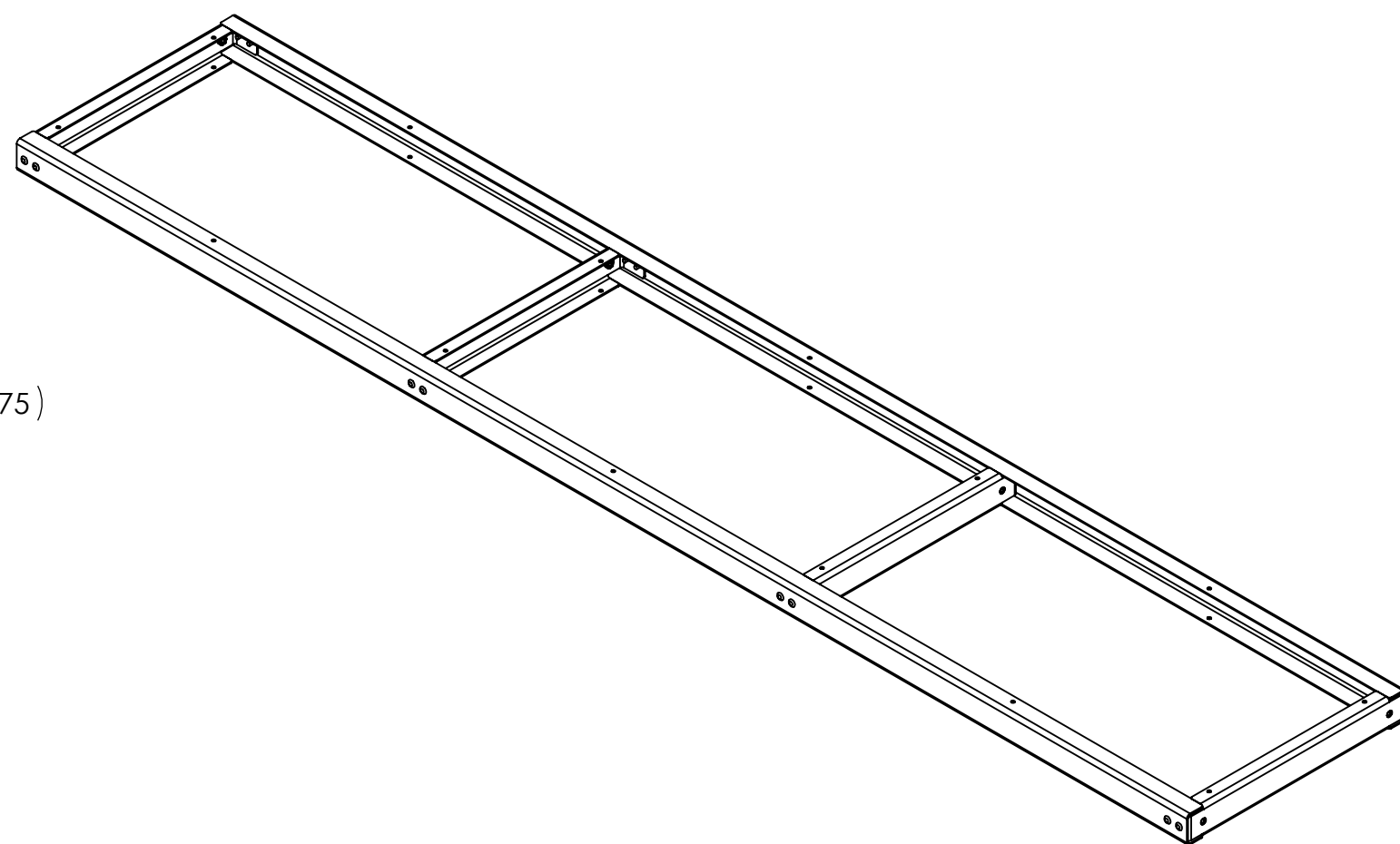
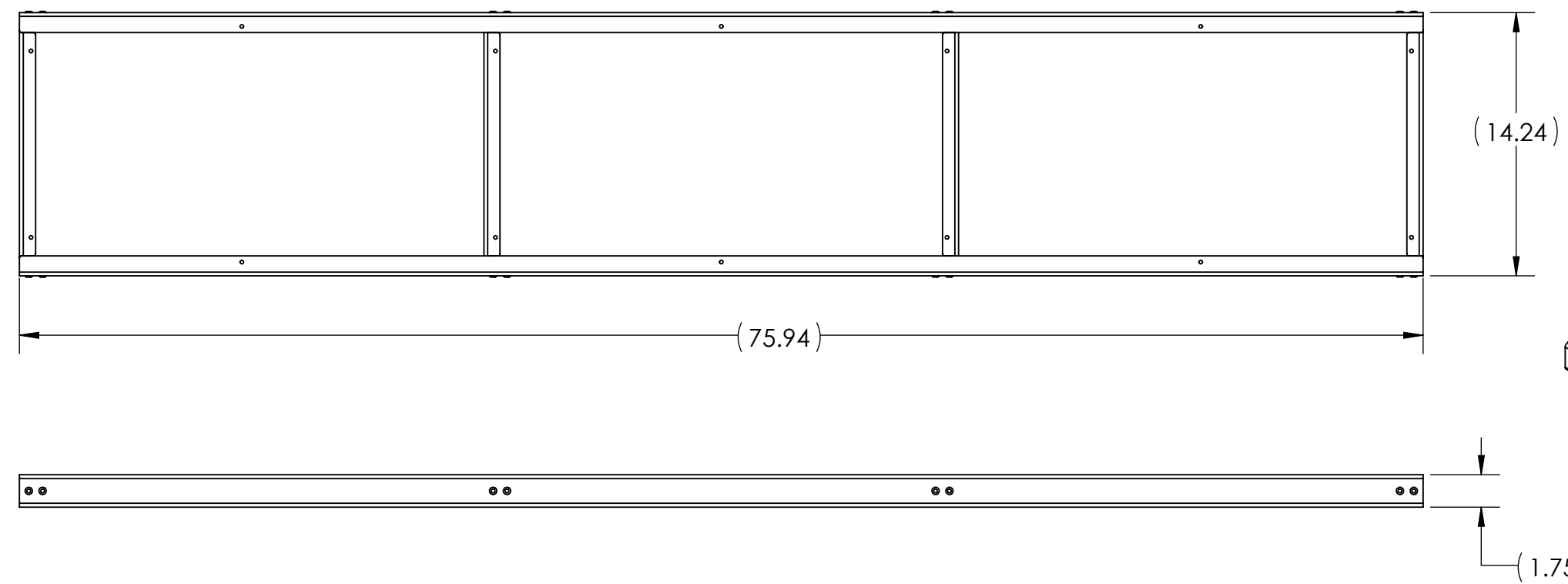
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NOTE: ASSEMBLE AS SHOWN

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25012	Chute Frame Long	2
2	GE-25013	Chute Ramp Frame Short with PEMs	4
3	rivet_.1875_.126-.25	3/16" Rivet, .126-.25 Grip Range	16

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ±1/16  
 ANGULAR: MACH ±1° BEND ±1°  
 TWO PLACE DECIMAL ±.01  
 THREE PLACE DECIMAL ±.005

**MATERIAL/FINISH:**

DO NOT SCALE DRAWING

VEND NAME DATE  
 DRAWN BB 8/13/2024

**PROPRIETARY AND CONFIDENTIAL**

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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.

**FIRST ROBOTICS COMPETITION** **SOLIDWORKS** Modeling Solutions Partner

TITLE: **Chute Ramp Frame**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25011	

SCALE: 1:12 SHEET 1 OF 1

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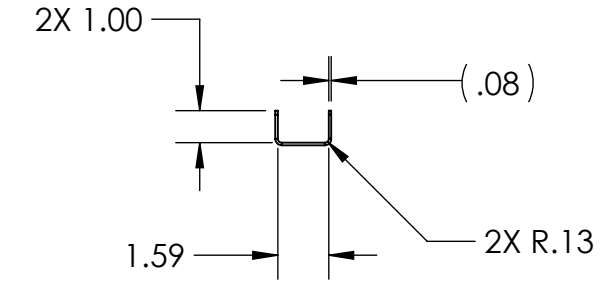
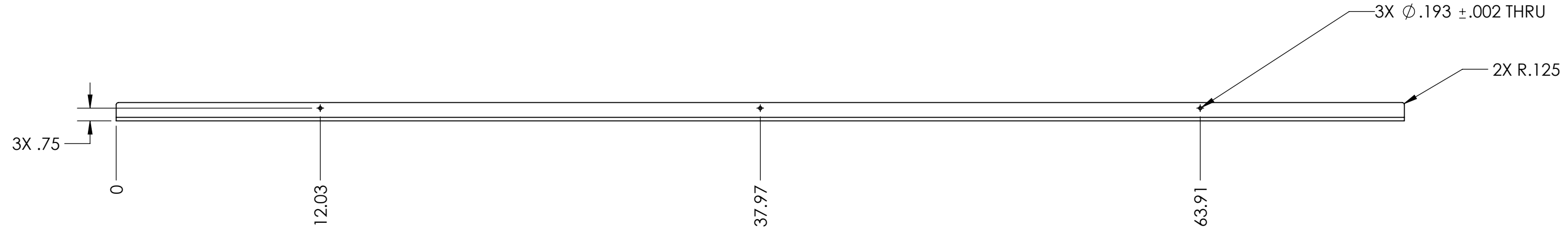
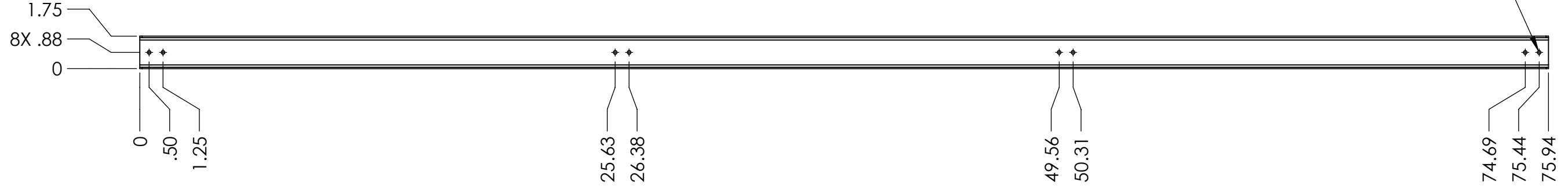
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UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL  $\pm 1/16$   
 ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
 TWO PLACE DECIMAL  $\pm .02$   
 THREE PLACE DECIMAL  $\pm .010$

**MATERIAL/FINISH:**  
 12 Gauge (0.08") 5052  
 Aluminum

DO NOT SCALE DRAWING

BEND	NAME	DATE
DRAWN	BB	8/13/2024

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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.



TITLE:  
**Chute Frame Long**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25012	

SCALE: 1:8 SHEET 1 OF 1

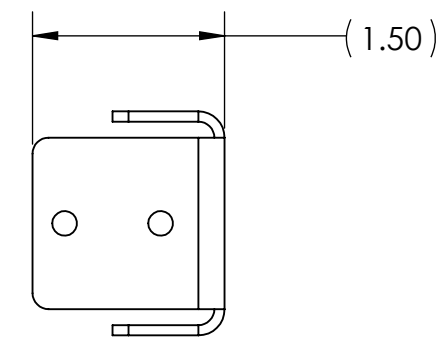
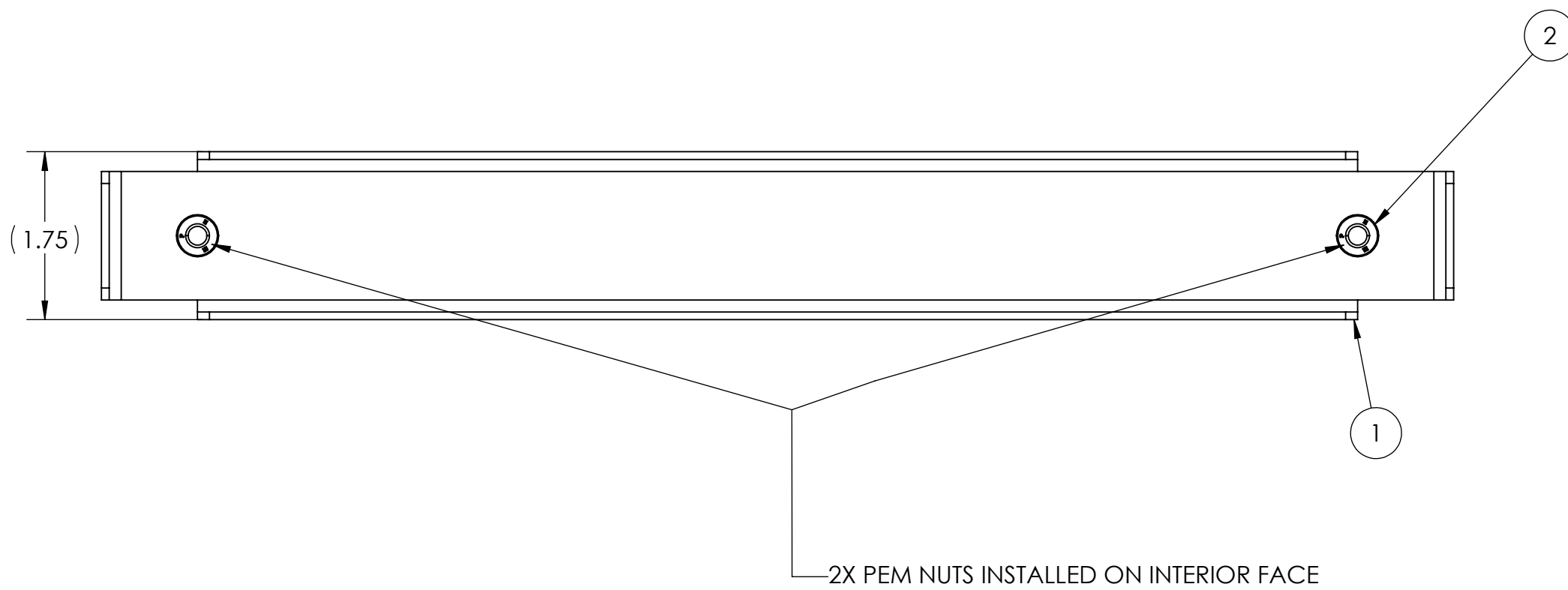
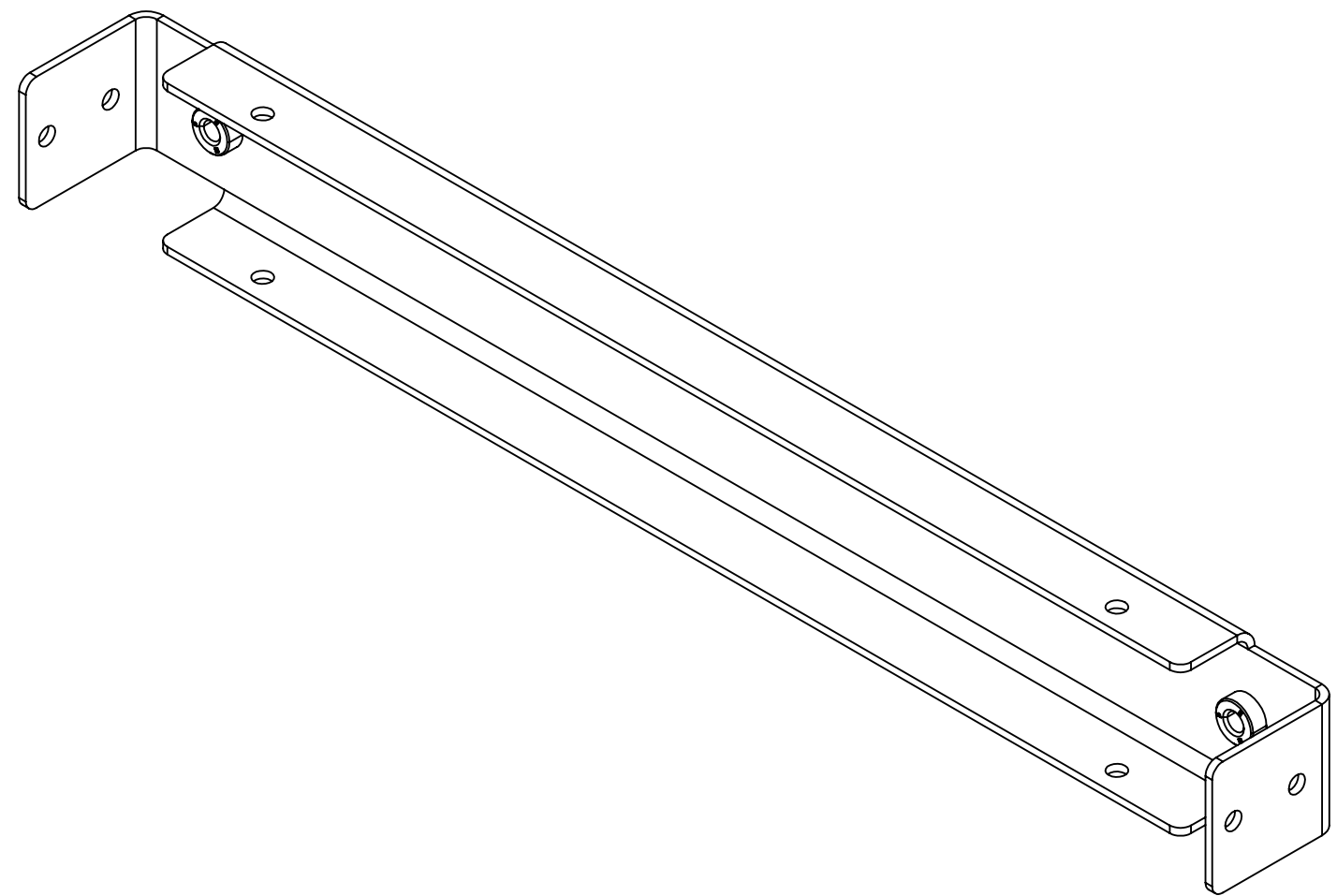
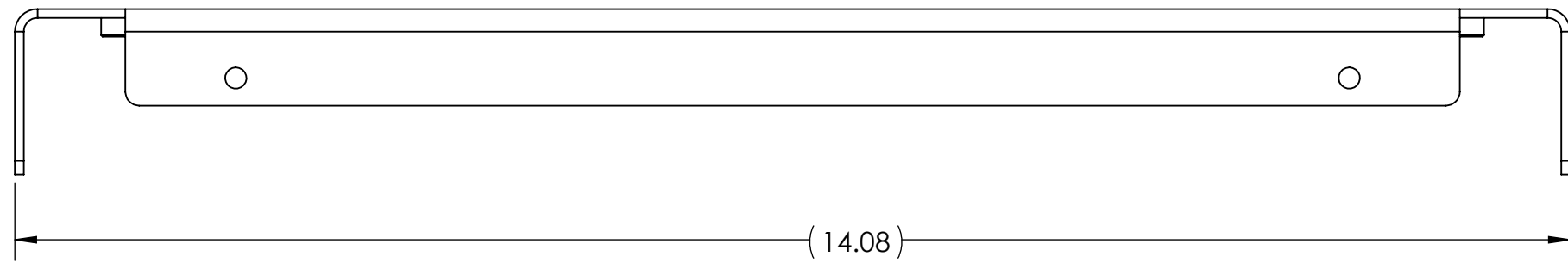


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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25013-01	Chute Ramp Frame Short	1
2	pem_clinchnut_.25_20 _.054	1/4-20 self-clinching nut, .054 shank	2

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ± 1/16  
 ANGULAR: MACH ± 1° BEND ± 1°  
 TWO PLACE DECIMAL ± .01  
 THREE PLACE DECIMAL ± .005

**MATERIAL/FINISH:**  
 12 Gauge (0.08") 5052  
 Aluminum

DO NOT SCALE DRAWING

VEND NAME DATE  
 DRAWN BB 8/13/2024

**PROPRIETARY AND CONFIDENTIAL**  
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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.

**FIRST ROBOTICS COMPETITION** **SOLIDWORKS** Modeling Solutions Partner

TITLE: **Chute Ramp Frame Short with PEMs**

SIZE DWG. NO. REV  
**C** GE-25013

SCALE: 1:2 SHEET 1 OF 1

NOTES:  
 1. REMOVE ALL BURRS AND SHARP EDGES

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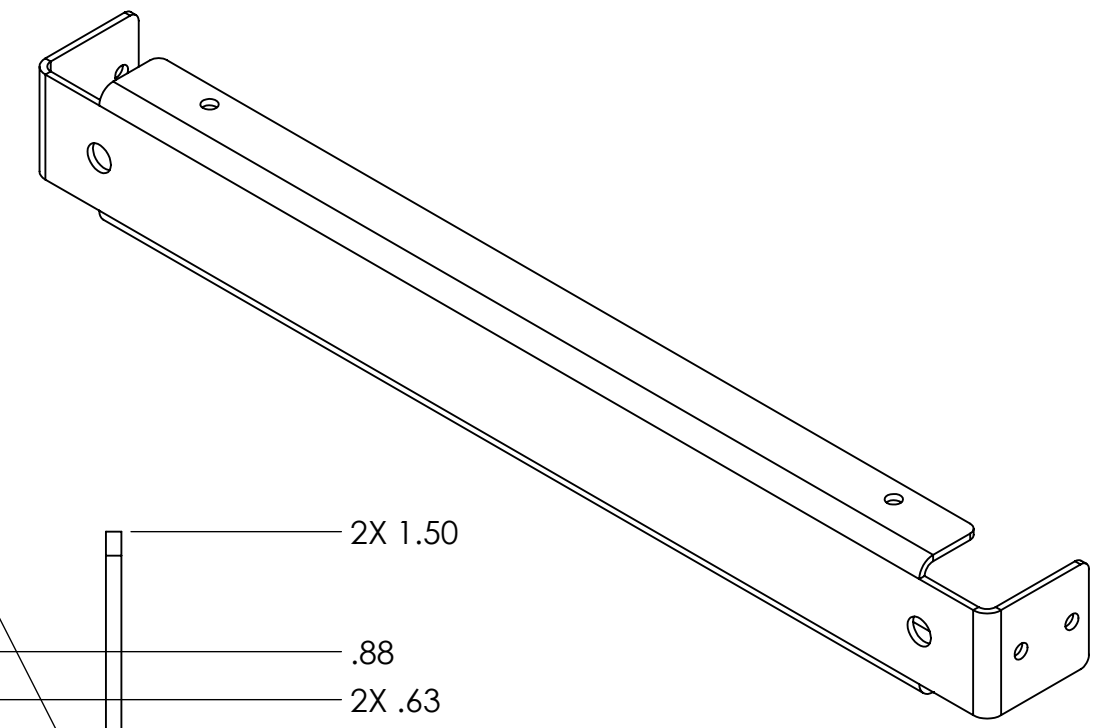
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UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.02 THREE PLACE DECIMAL ±.010  <b>MATERIAL/FINISH:</b> 12 Gauge (0.08") 5052 Aluminum  DO NOT SCALE DRAWING	BEND	NAME	DATE	 
	DRAWN	BB	8/13/2024	
	<b>PROPRIETARY AND CONFIDENTIAL</b>			TITLE: <h3>Chute Ramp Frame Short</h3>
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			SIZE DWG. NO. REV <b>C</b> GE-25013-01
	SCALE: 1:2		SHEET 1 OF 1	

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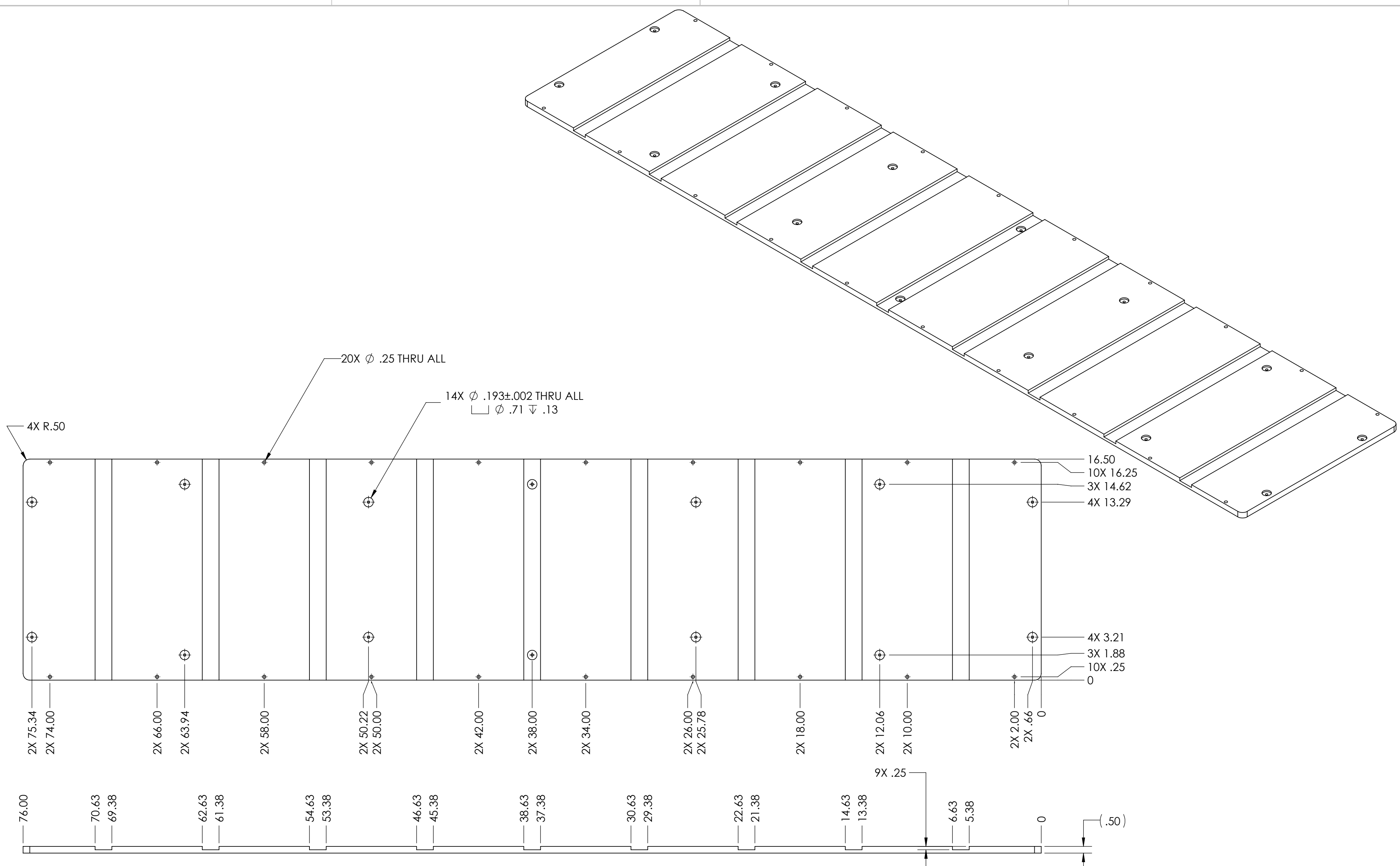
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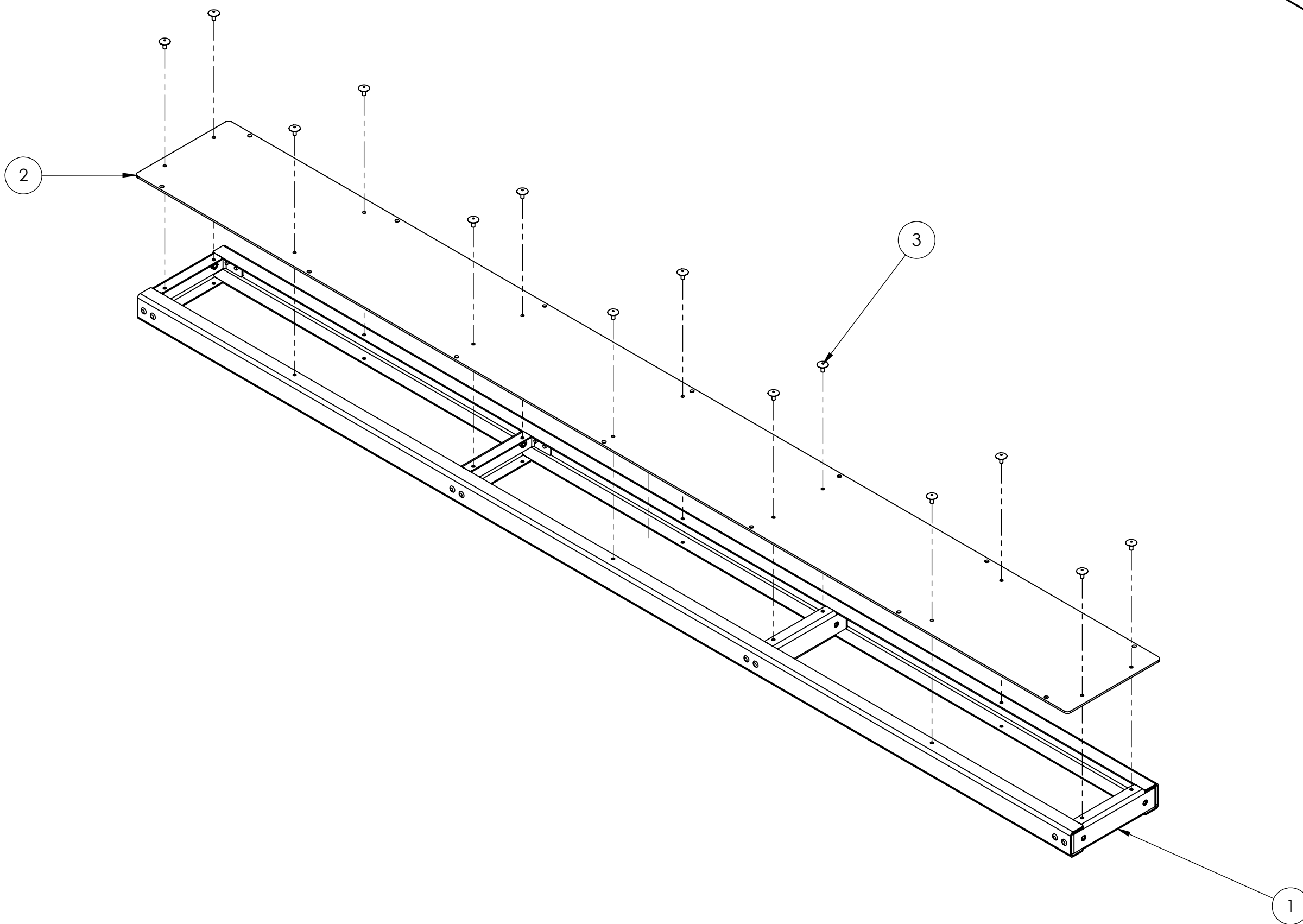
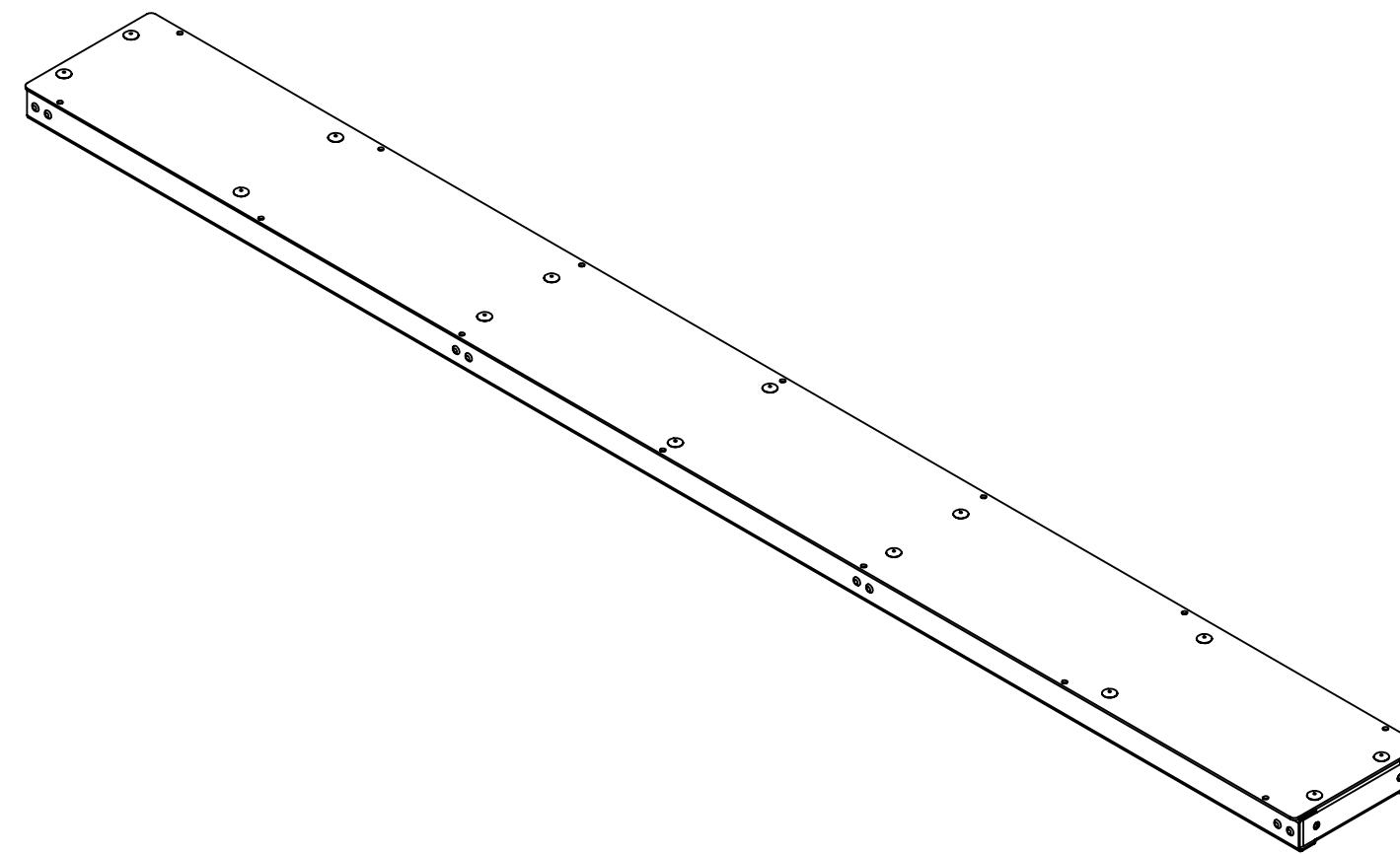
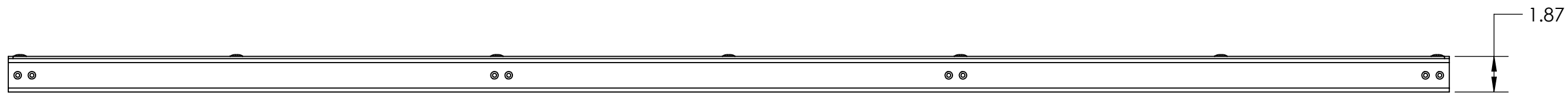
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005  <b>MATERIAL/FINISH:</b> 1/2" Black HDPE, Orange Peel Texture  DO NOT SCALE DRAWING	VEND	NAME	DATE	 
	DRAWN	JO	8/12/2024	
	<b>PROPRIETARY AND CONFIDENTIAL</b>			TITLE: <h2>Chute Ramp HDPE</h2>
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			
	<b>COMMENTS:</b>			SIZE DWG. NO. REV <b>C</b> GE-25014
	REMOVE ALL BURRS AND SHARP EDGES.			SCALE: 1:5 SHEET 1 OF 1

4



3

2

1



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25016	Chute Cover Frame	1
2	GE-25017	Chute Cover Plastic	1
3	rivet_.1875_.125-.25_largeHead	3/16" Large Head Aluminum Rivet, .126-.26 Grip Range	14

UNLESS OTHERWISE SPECIFIED:		VEND	NAME	DATE
DIMENSIONS ARE IN INCHES		DRAWN	BB	8/13/2024
TOLERANCES:		<b>PROPRIETARY AND CONFIDENTIAL</b>		
FRACTIONAL ± 1/16		THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.		
ANGULAR: MACH ± 1° BEND ± 1°		 		
TWO PLACE DECIMAL ± .01				
THREE PLACE DECIMAL ± .005		<b>TITLE:</b> <h1>Chute Cover Assembly</h1>		
<b>MATERIAL/FINISH:</b>		<b>SIZE</b> DWG. NO. REV		<b>C</b> GE-25015
DO NOT SCALE DRAWING		<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		SCALE: 1:8 SHEET 1 OF 1

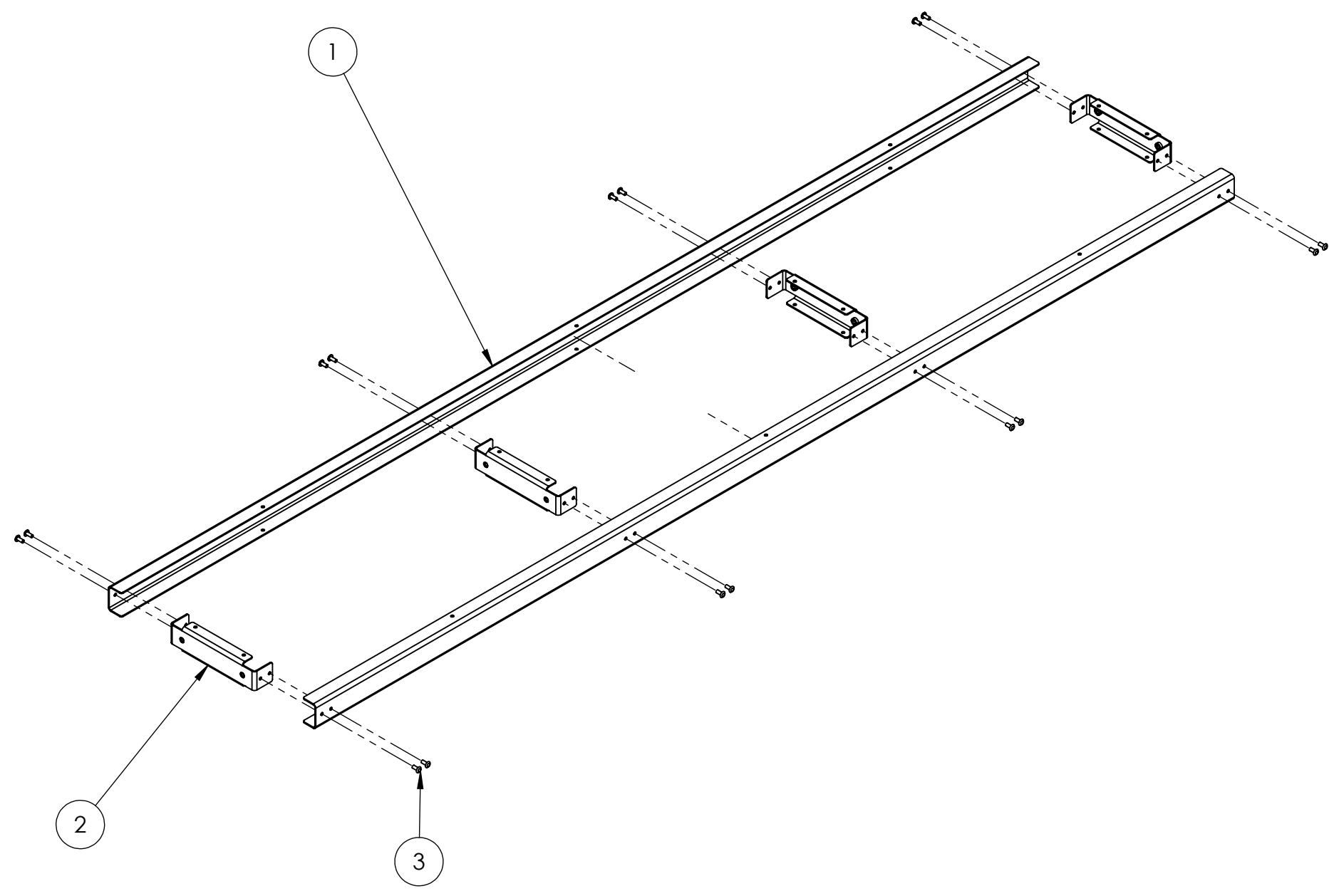
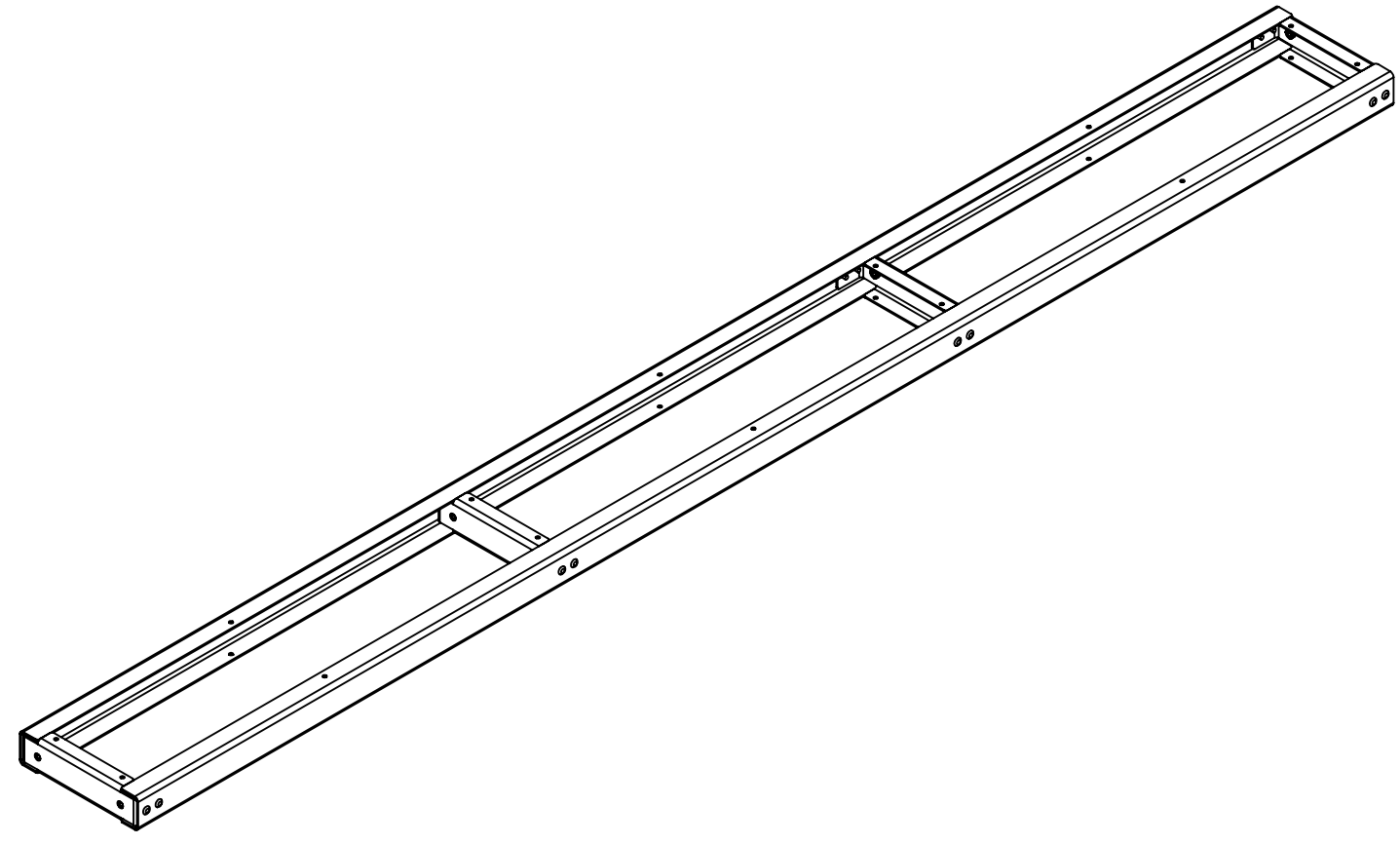
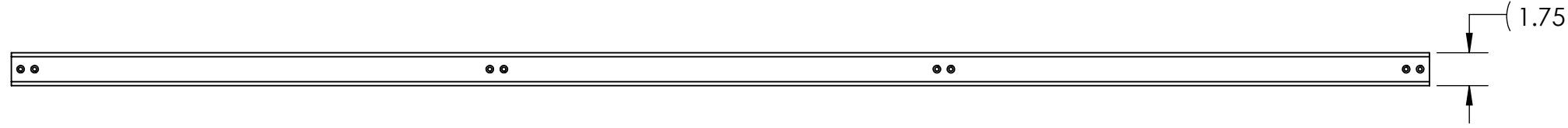
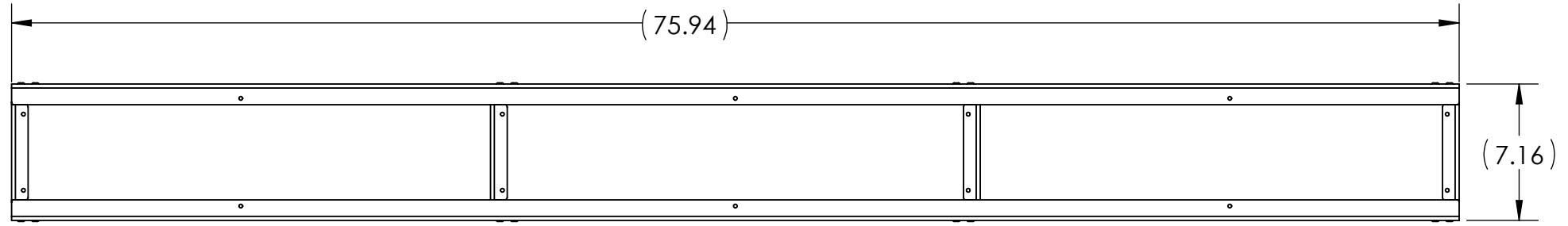
NOTES:  
 1. ASSEMBLE AS SHOWN  
 2. LABEL ASSEMBLY WITH PART NUMBER

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NOTE: ASSEMBLE AS SHOWN

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25012	Chute Frame Long	2
2	GE-25018	Chute Cover Frame Short with PEMs	4
3	rivet_.1875_.126-.25	3/16" Rivet, .126-.25 Grip Range	16

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ± 1/16  
 ANGULAR: MACH ± 1° BEND ± 1°  
 TWO PLACE DECIMAL ± .01  
 THREE PLACE DECIMAL ± .005

**MATERIAL/FINISH:**

DO NOT SCALE DRAWING

VEND	NAME	DATE
	BB	8/13/2024

**PROPRIETARY AND CONFIDENTIAL**  
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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.

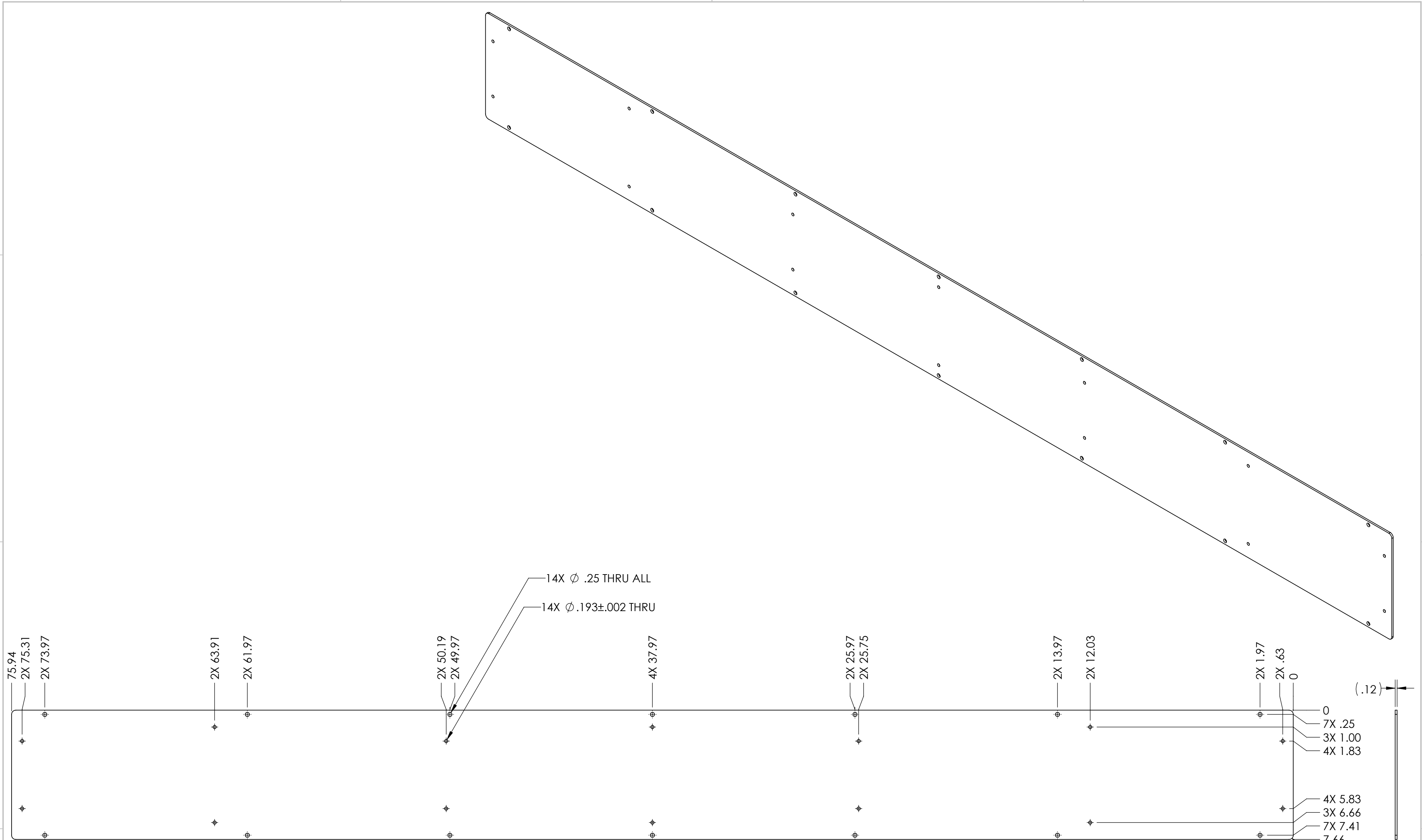


TITLE:  
**Chute Cover Frame**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25016	

SCALE: 1:12 SHEET 1 OF 1





UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ± 1/16  
 ANGULAR: MACH ± 1° BEND ± 1°  
 TWO PLACE DECIMAL ± .01  
 THREE PLACE DECIMAL ± .005

**MATERIAL/FINISH:**  
 0.125" Polycarbonate

DO NOT SCALE DRAWING

VEND	NAME	DATE
DRAWN	JO	8/12/2024

**PROPRIETARY AND CONFIDENTIAL**  
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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.



TITLE:  
**Chute Cover Plastic**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25017	

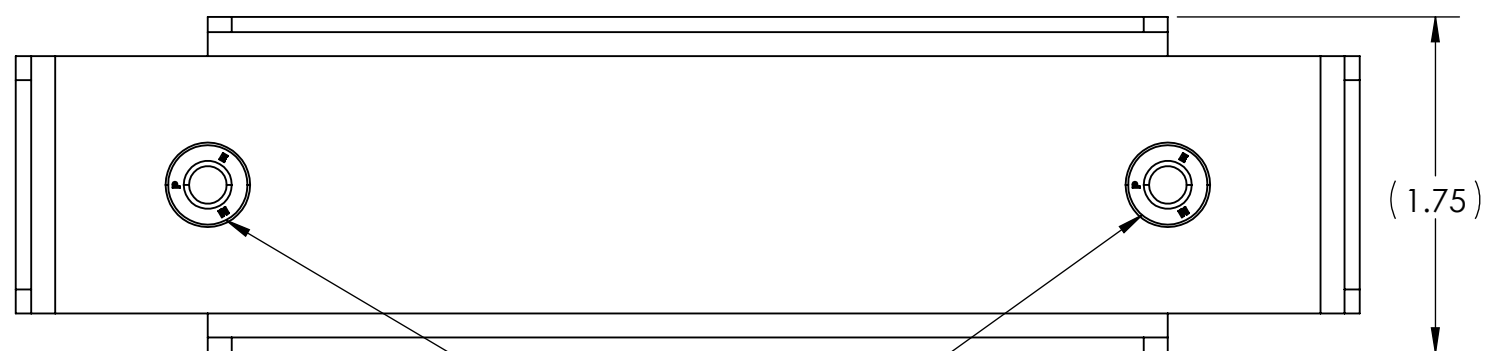
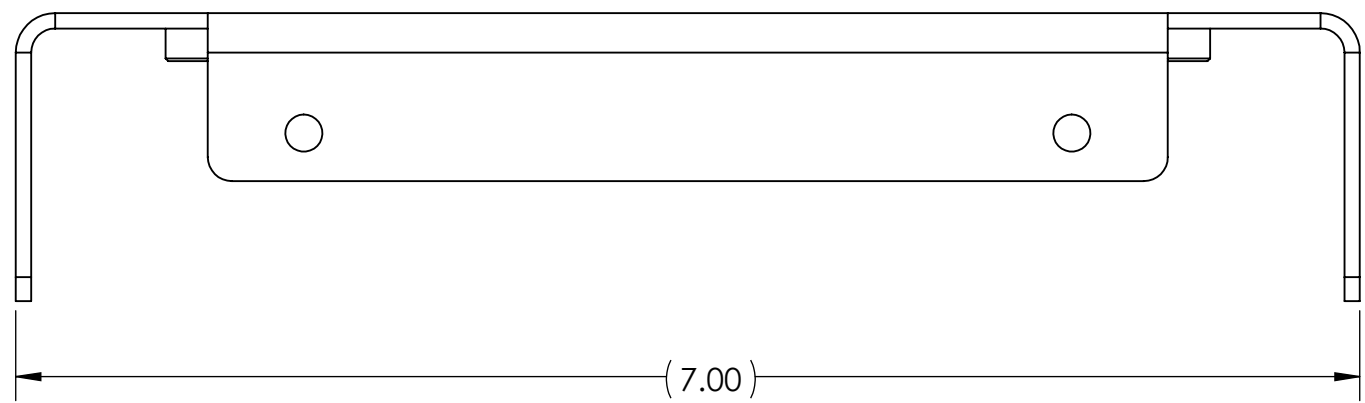
SCALE: 1:4 SHEET 1 OF 1

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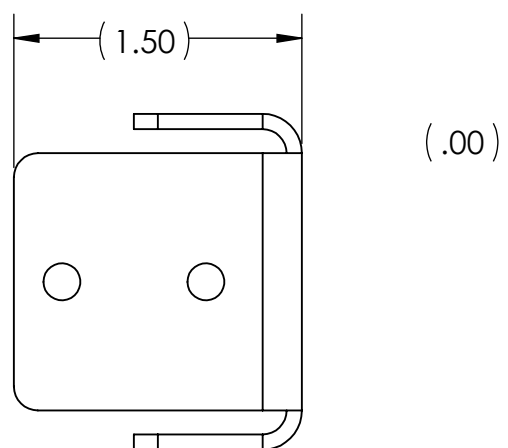
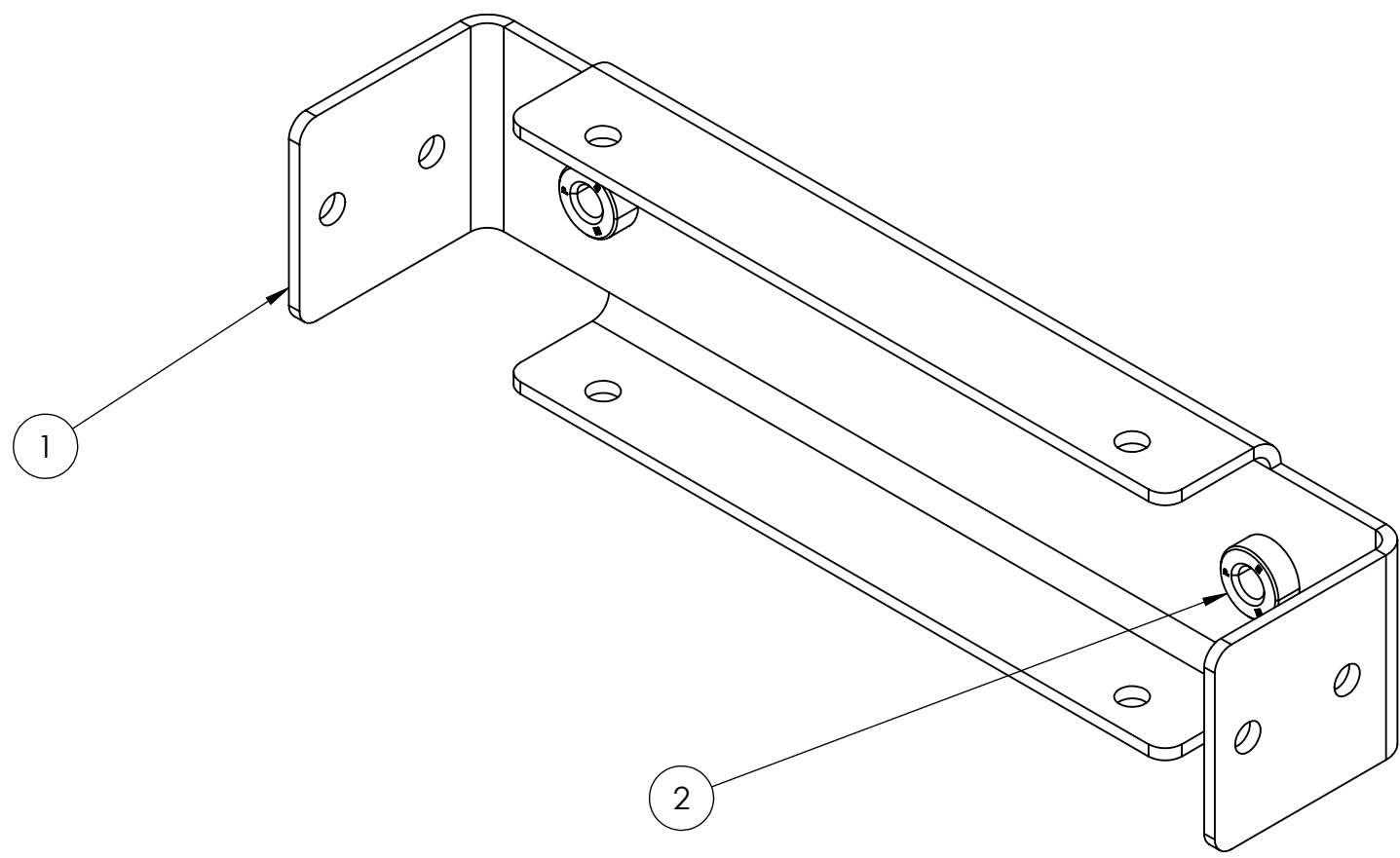
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1



2X PEM NUTS INSTALLED ON INTERIOR FACE



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25018-01	Chute Cover Frame Short	1
2	pem_clinchnut_.25_20_.054	1/4-20 self-clinching nut, .054 shank	2

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .005$	VEND	NAME	DATE	 
	DRAWN	BB	8/13/2024	
<b>MATERIAL/FINISH:</b> 12 Gauge (0.08") 5052 Aluminum	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.			TITLE: Chute Cover Frame Short with PEMs
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			SIZE DWG. NO. REV <b>C</b> GE-25018
DO NOT SCALE DRAWING				SCALE: 1:1 SHEET 1 OF 1

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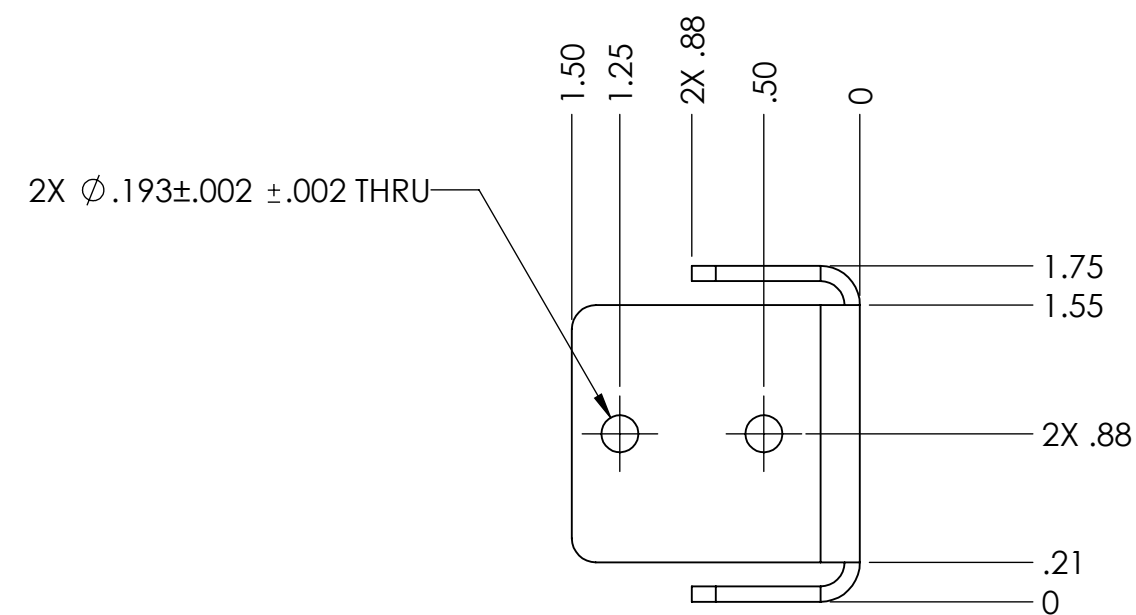
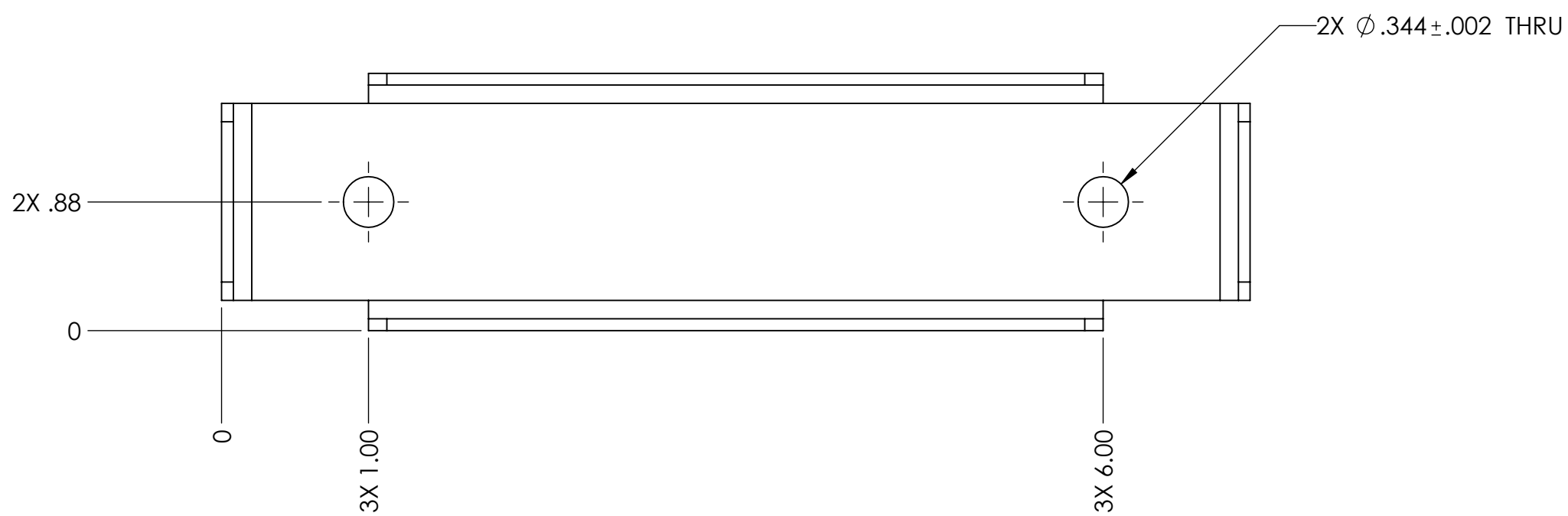
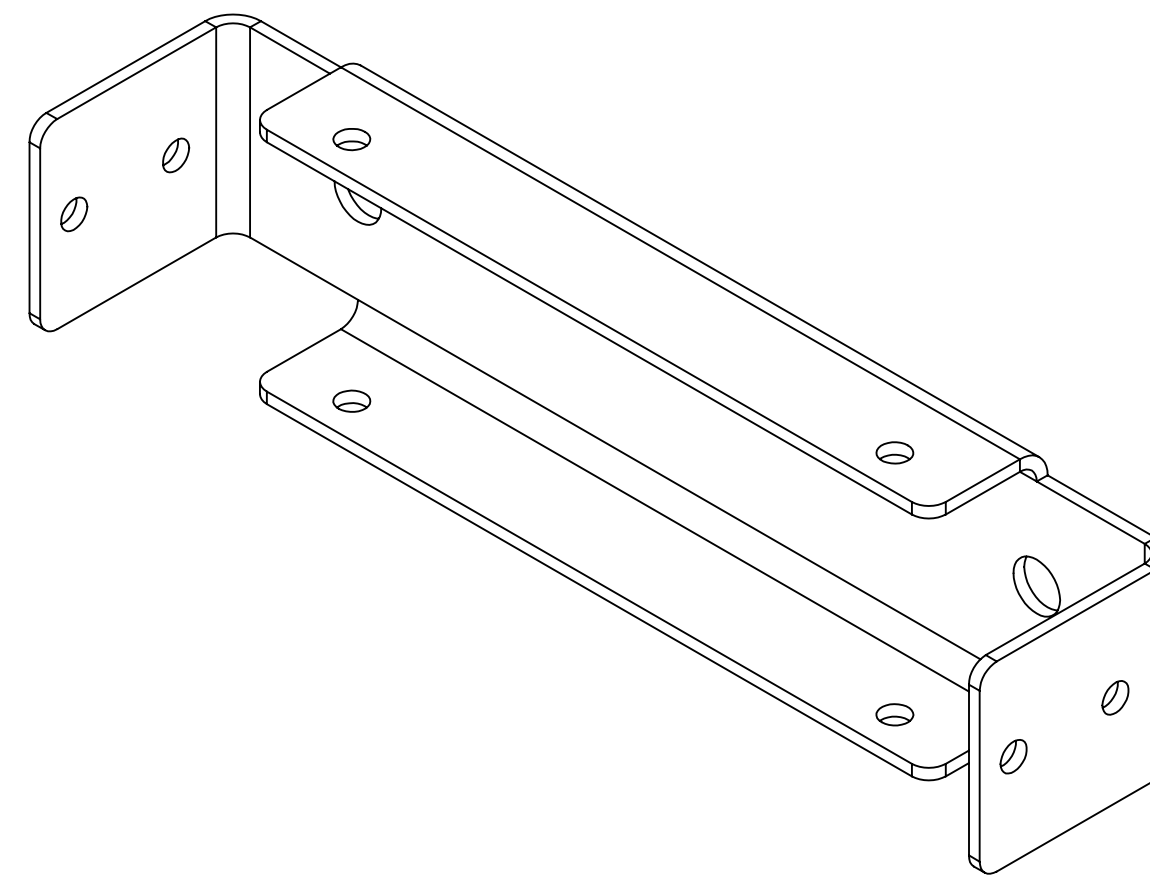
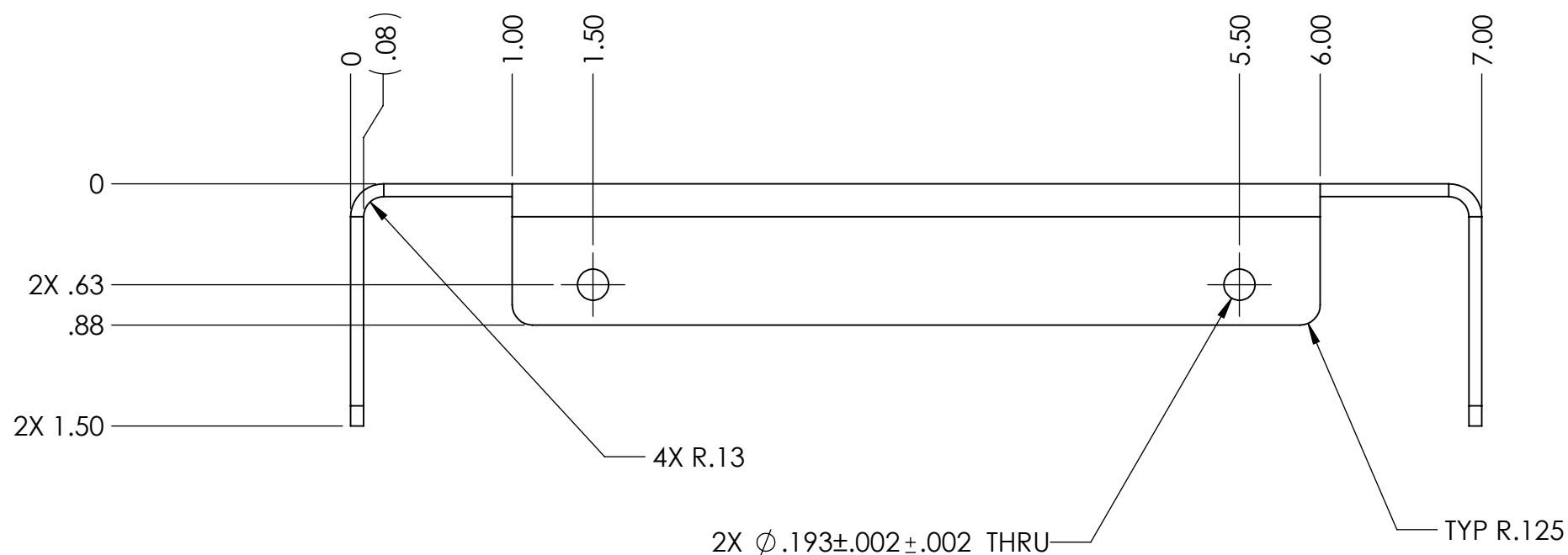
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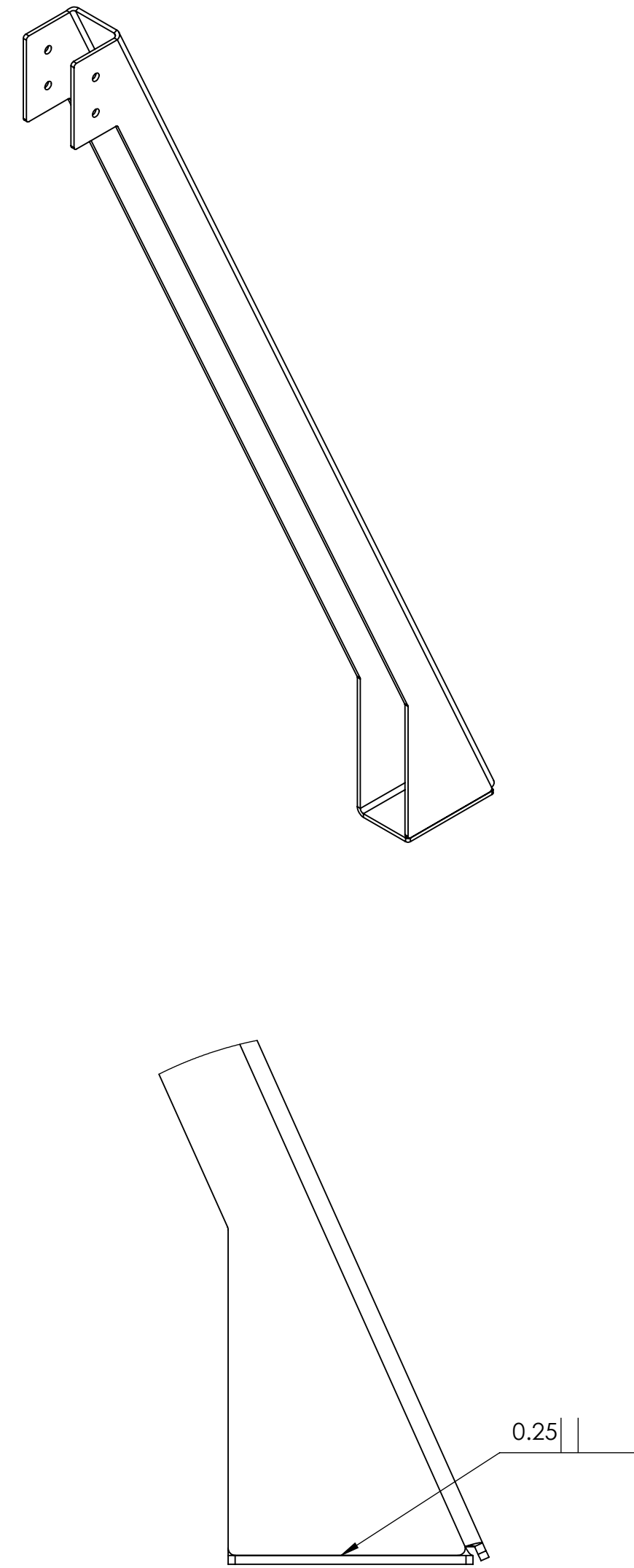
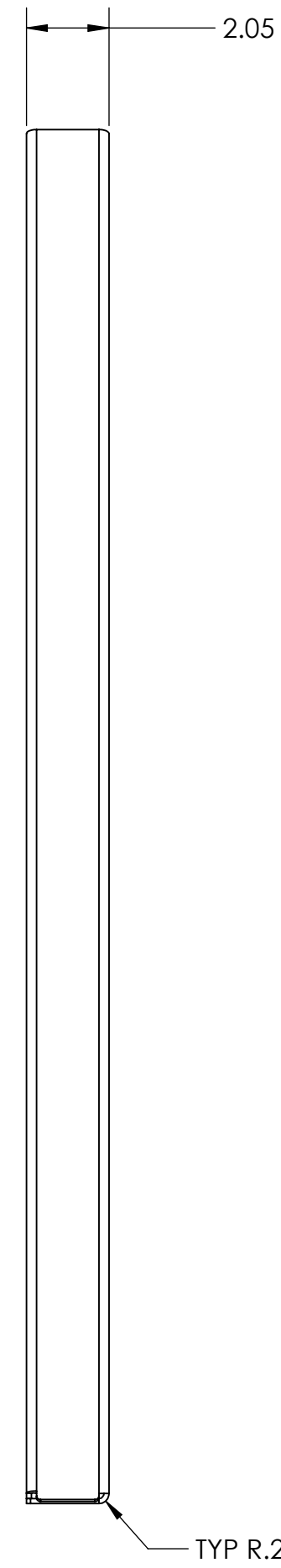
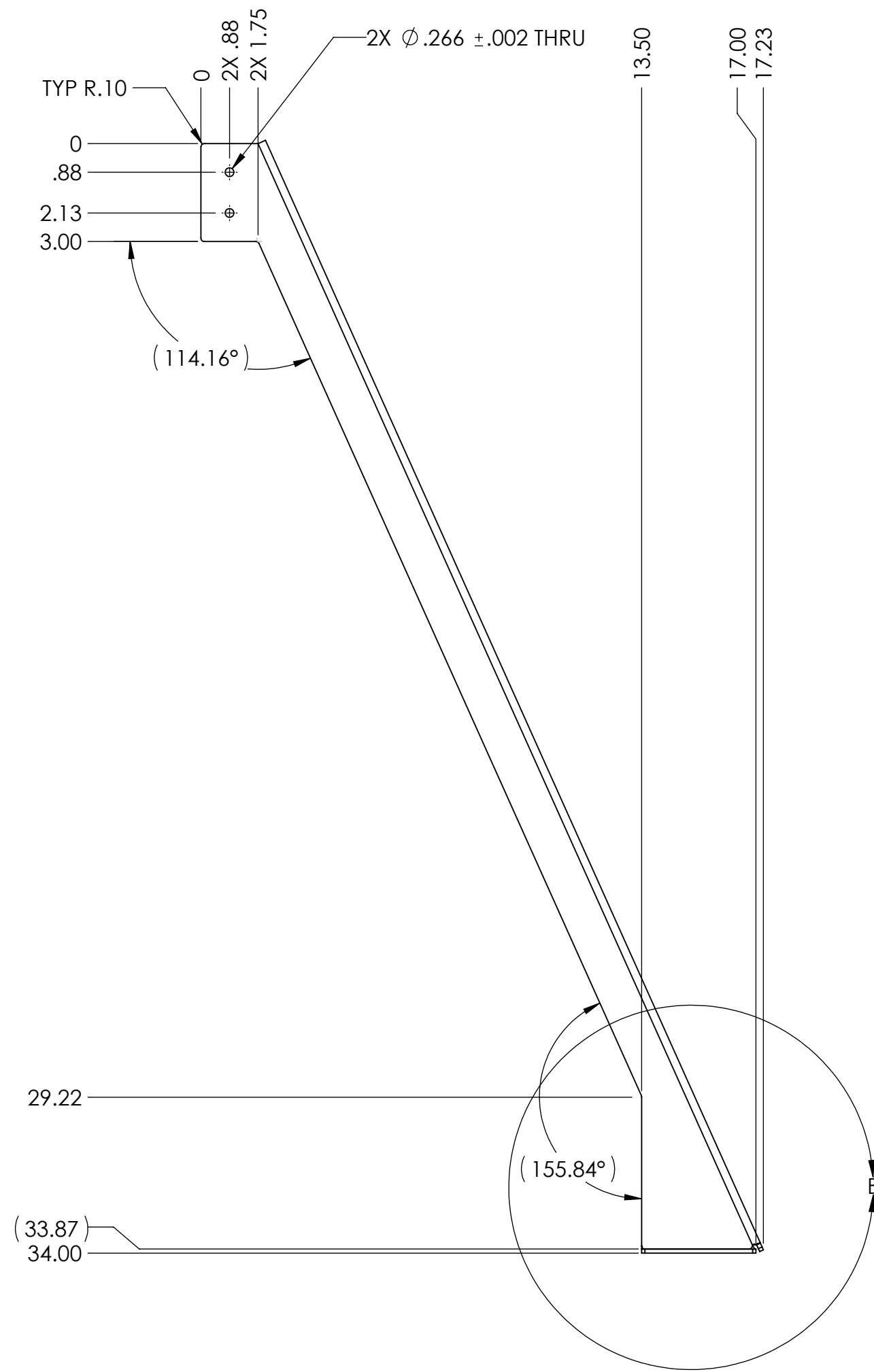
UNLESS OTHERWISE SPECIFIED:	BEND	NAME	DATE	 
	DRAWN	BB	8/13/2024	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.02 THREE PLACE DECIMAL ±.010	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			TITLE:
	<b>MATERIAL/FINISH:</b> 12 Gauge (0.08") 5052 Aluminum			<b>Chute Cover Frame Short</b>
DO NOT SCALE DRAWING	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			SIZE DWG. NO. REV <b>C</b> GE-25018-01
	SCALE: 1:1		SHEET 1 OF 1	

4

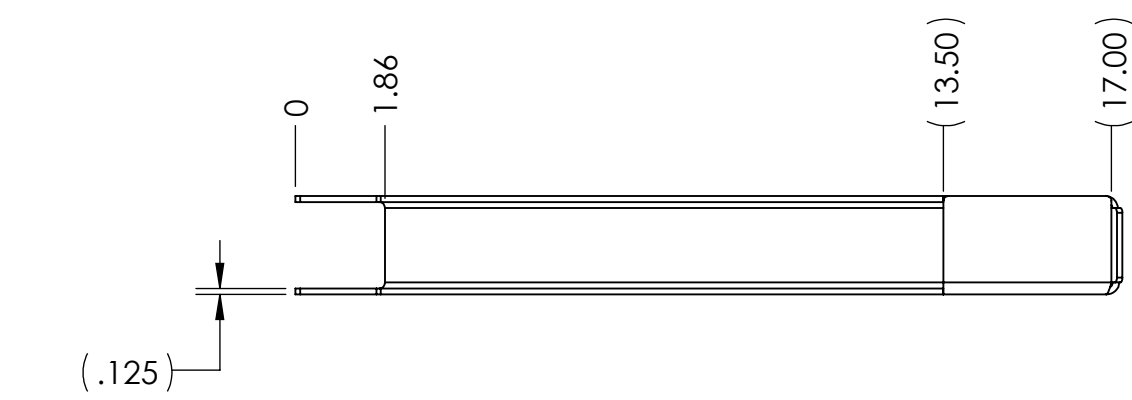
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DETAIL B  
SCALE 1 : 2



UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL  $\pm$  1/16  
 ANGULAR: MACH  $\pm$  1° BEND  $\pm$  1°  
 TWO PLACE DECIMAL  $\pm$ .02  
 THREE PLACE DECIMAL  $\pm$ .010

**MATERIAL/FINISH:**  
 0.125" 5052 Aluminum

DO NOT SCALE DRAWING

BEND	NAME	DATE
DRAWN	BB	8/13/2024

**PROPRIETARY AND CONFIDENTIAL**  
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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.



TITLE:  
**Frame Support Leg**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25019	

SCALE: 1:8 SHEET 1 OF 1

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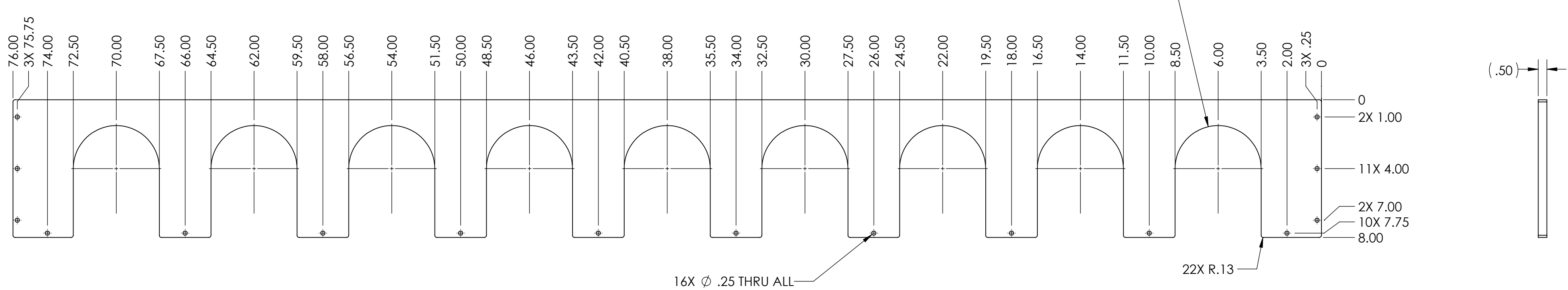
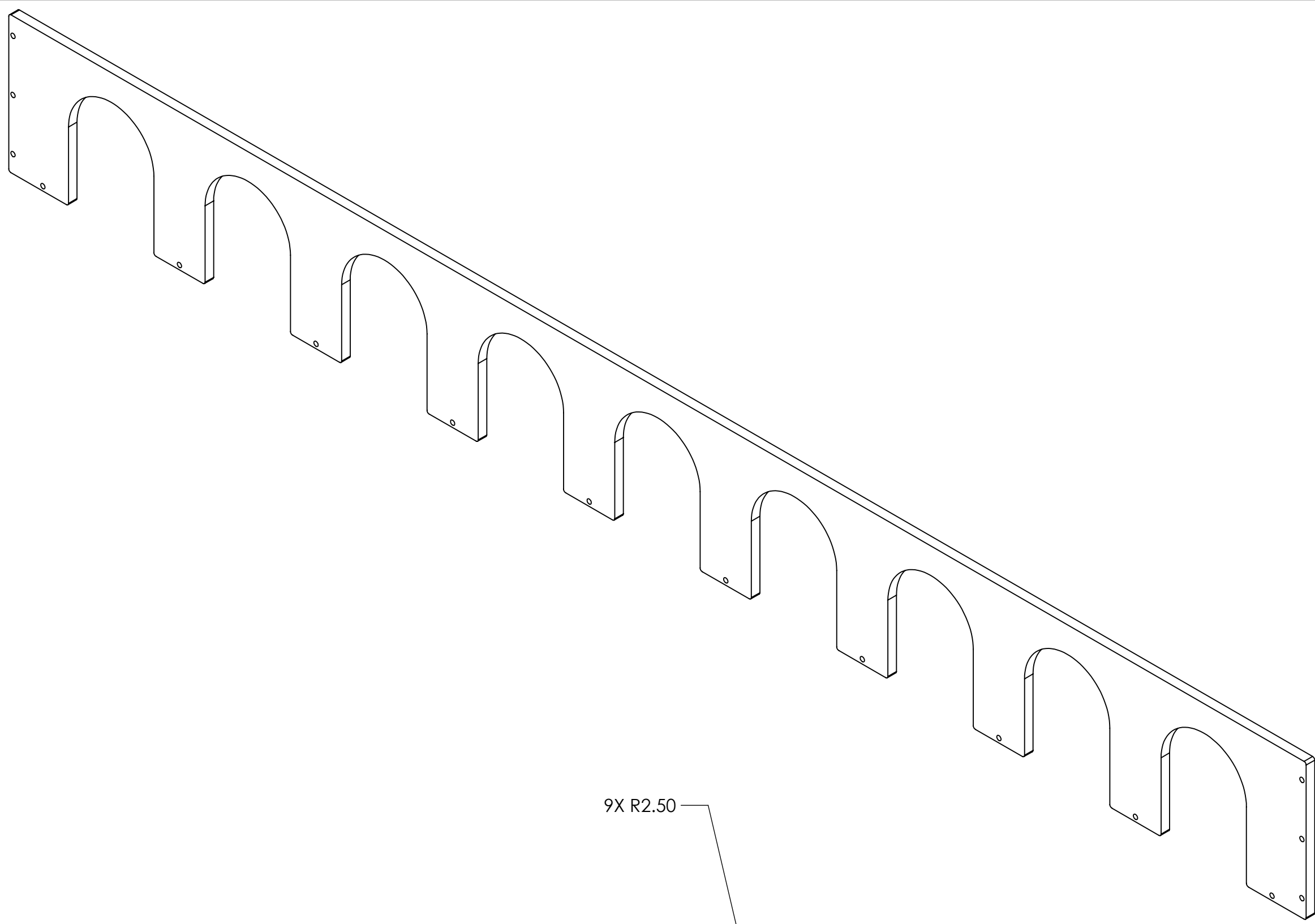
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NOTE: LABEL WITH PART NUMBER

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .01 THREE PLACE DECIMAL ± .005  <b>MATERIAL/FINISH:</b> 1/2" Polycarbonate  DO NOT SCALE DRAWING	VEND	NAME	DATE	
	DRAWN	JO	8/12/2024	
<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.				TITLE:
				<b>Back Divider Plastic</b>
SIZE		DWG. NO.	REV	
<b>C</b>		GE-25020		
SCALE: 1:4.5			SHEET 1 OF 1	



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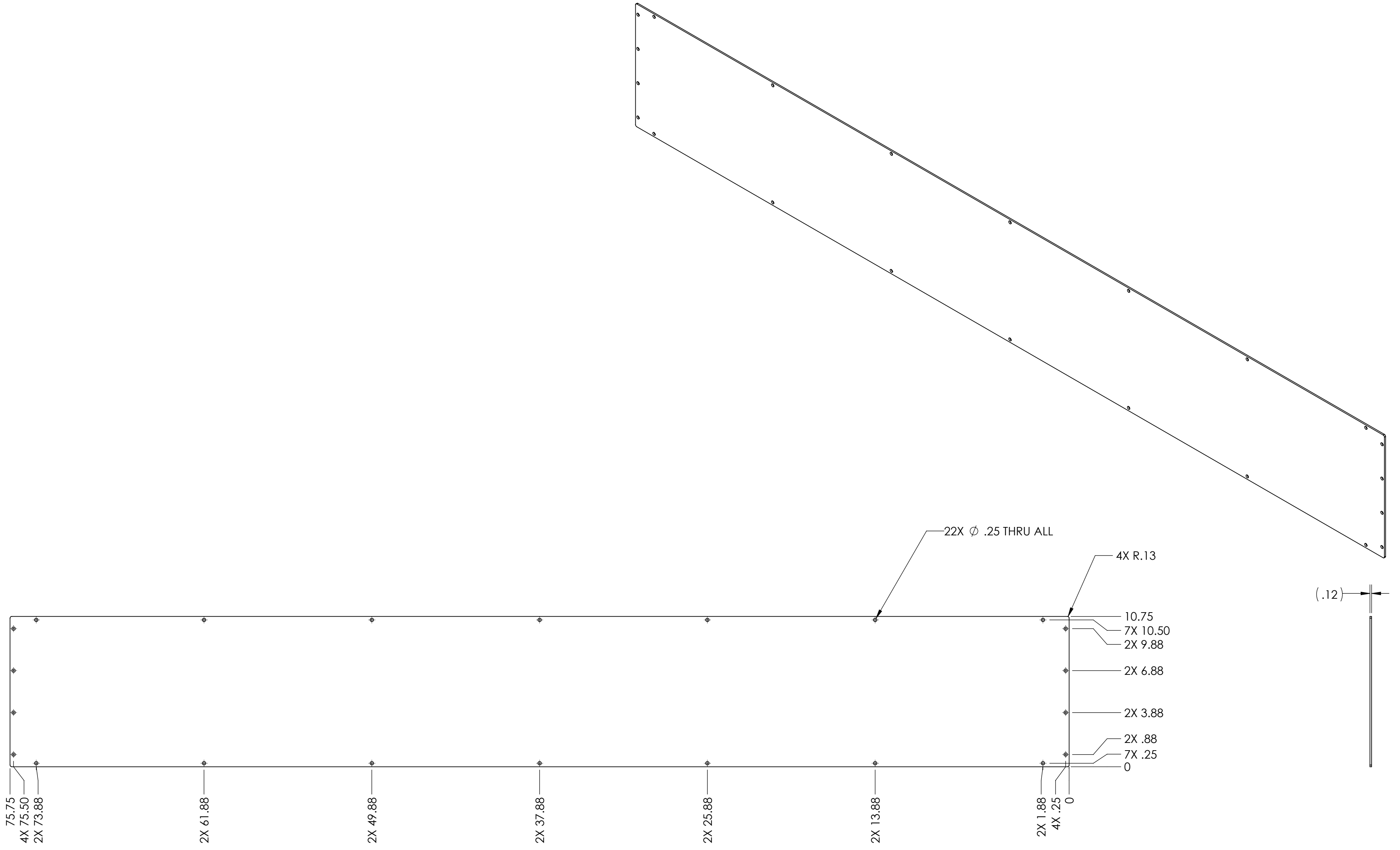
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Notes:  
Label with Part Number

UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .005$  <b>MATERIAL/FINISH:</b> 1/8" Polycarbonate  DO NOT SCALE DRAWING	VEND	NAME	DATE	 
	DRAWN	JO	8/12/2024	
	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.			TITLE:
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			Top Cover Plastic  SIZE: <b>C</b> DWG. NO.: GE-25021 REV:
SCALE: 1:5		SHEET 1 OF 1		

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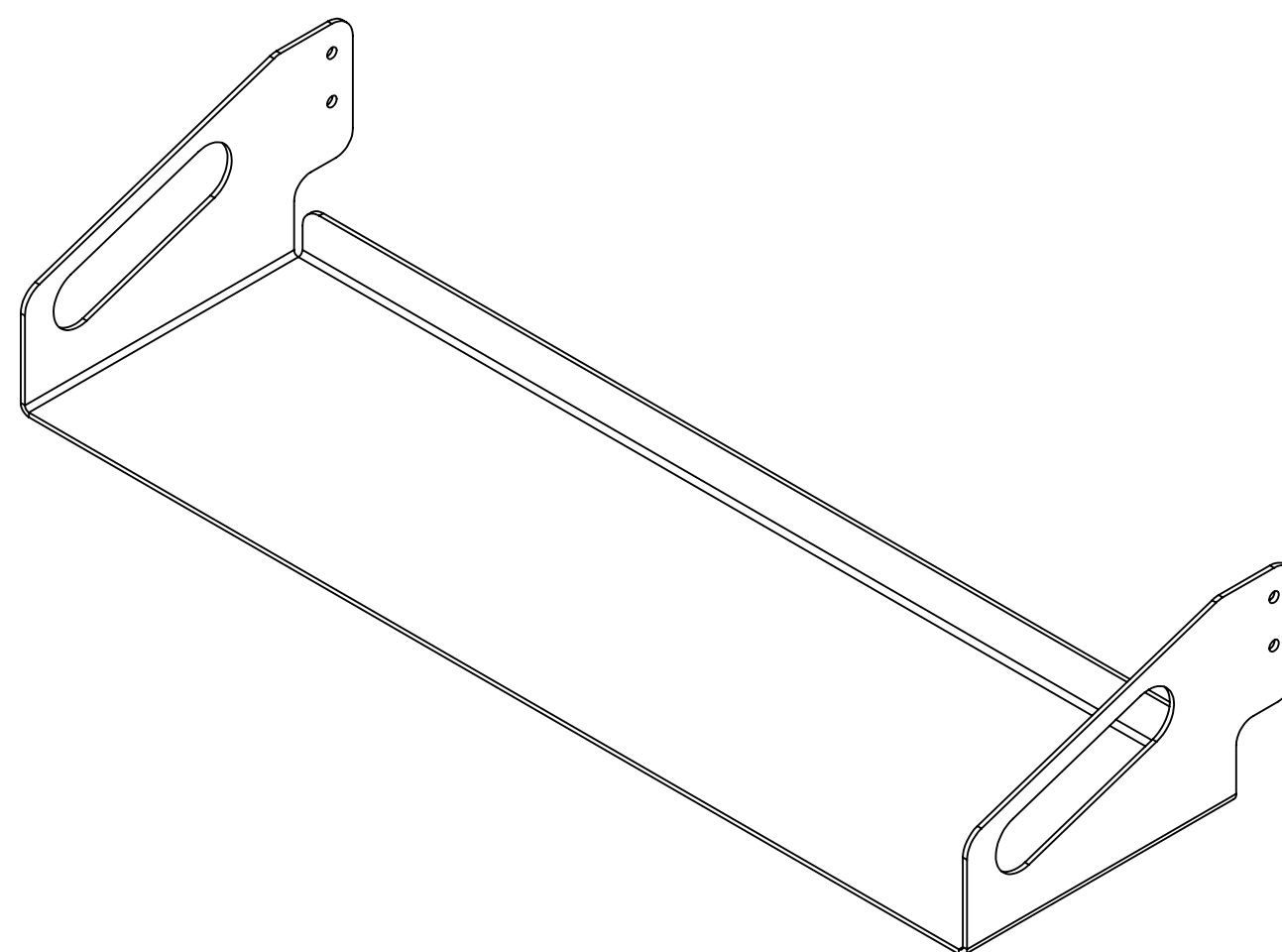
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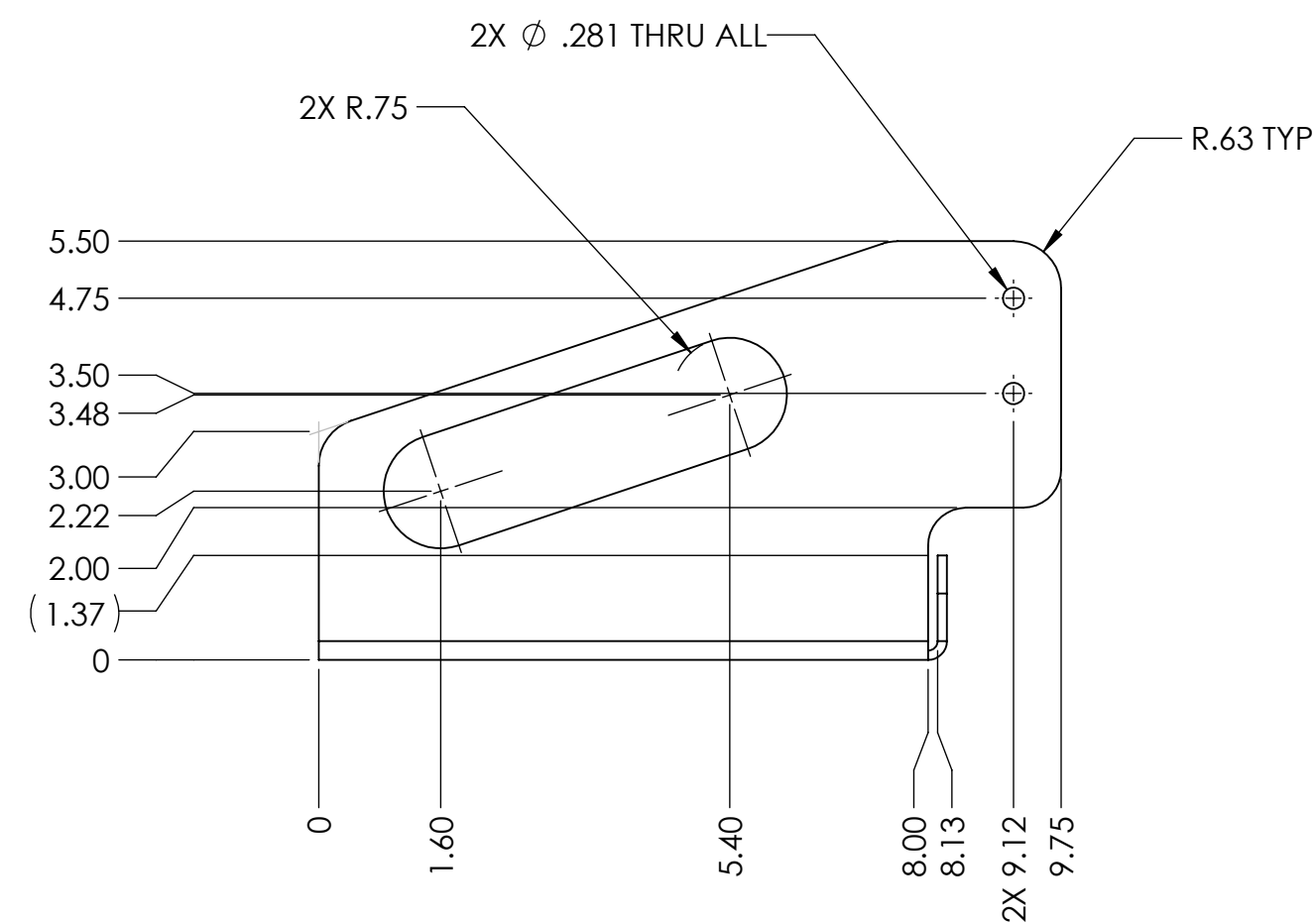
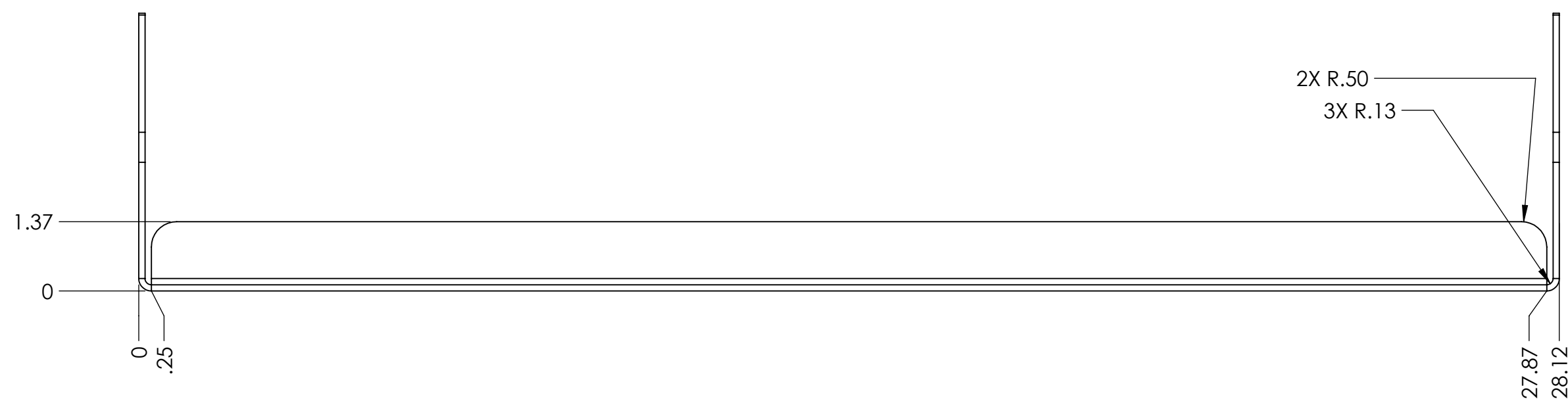


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UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .02 THREE PLACE DECIMAL ± .010  <b>MATERIAL/FINISH:</b> 11 Gauge (.1233") Galvanized Steel  DO NOT SCALE DRAWING	BEND	NAME	DATE	 	
	DRAWN	JO	8/13/2024		
	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.				TITLE: <h2>Floor Support - 2025 Specific</h2>
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		SIZE <b>C</b>	DWG. NO. <b>GE-25022</b>	REV
SCALE: 1:4			SHEET 1 OF 1		

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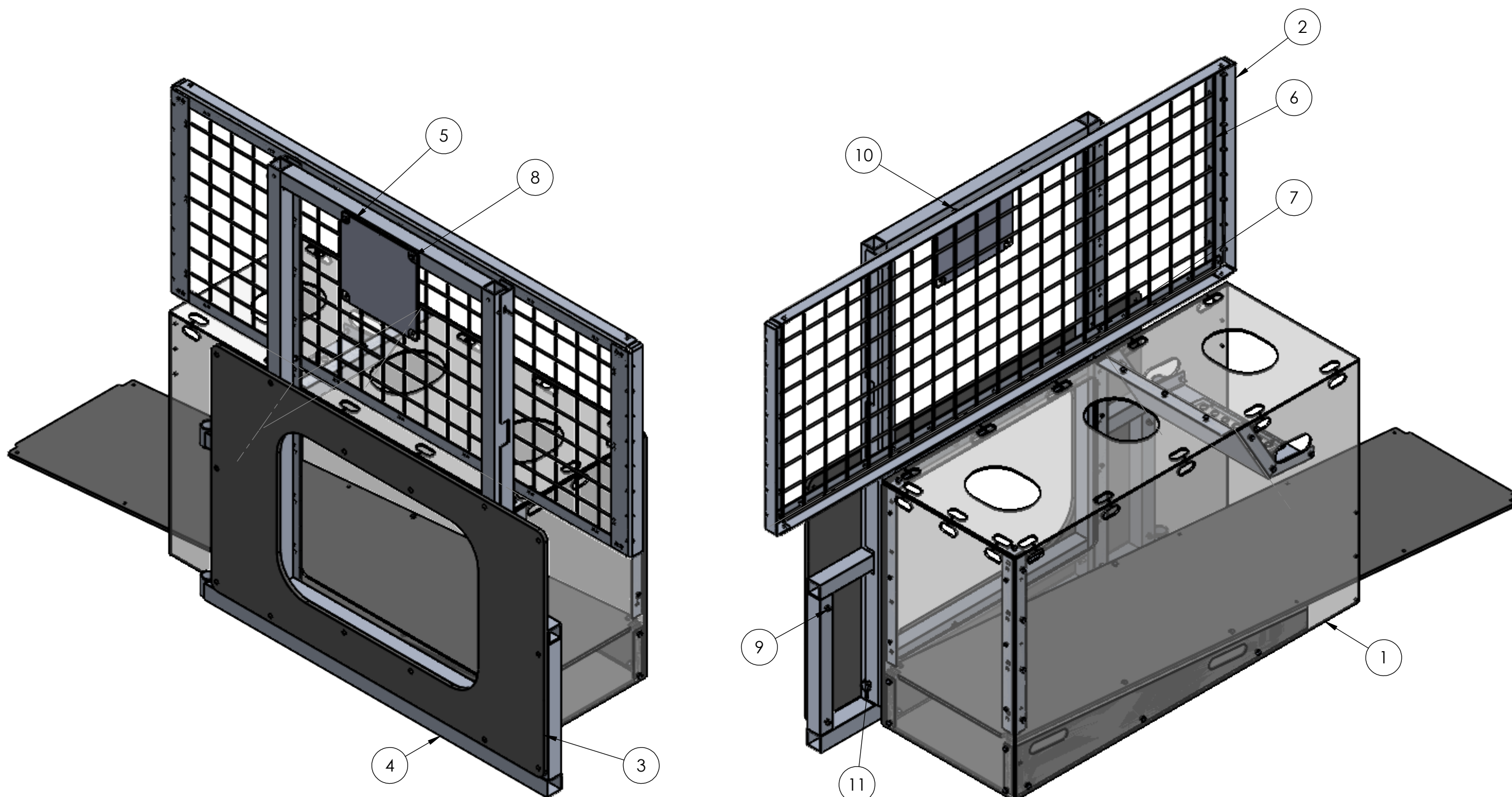
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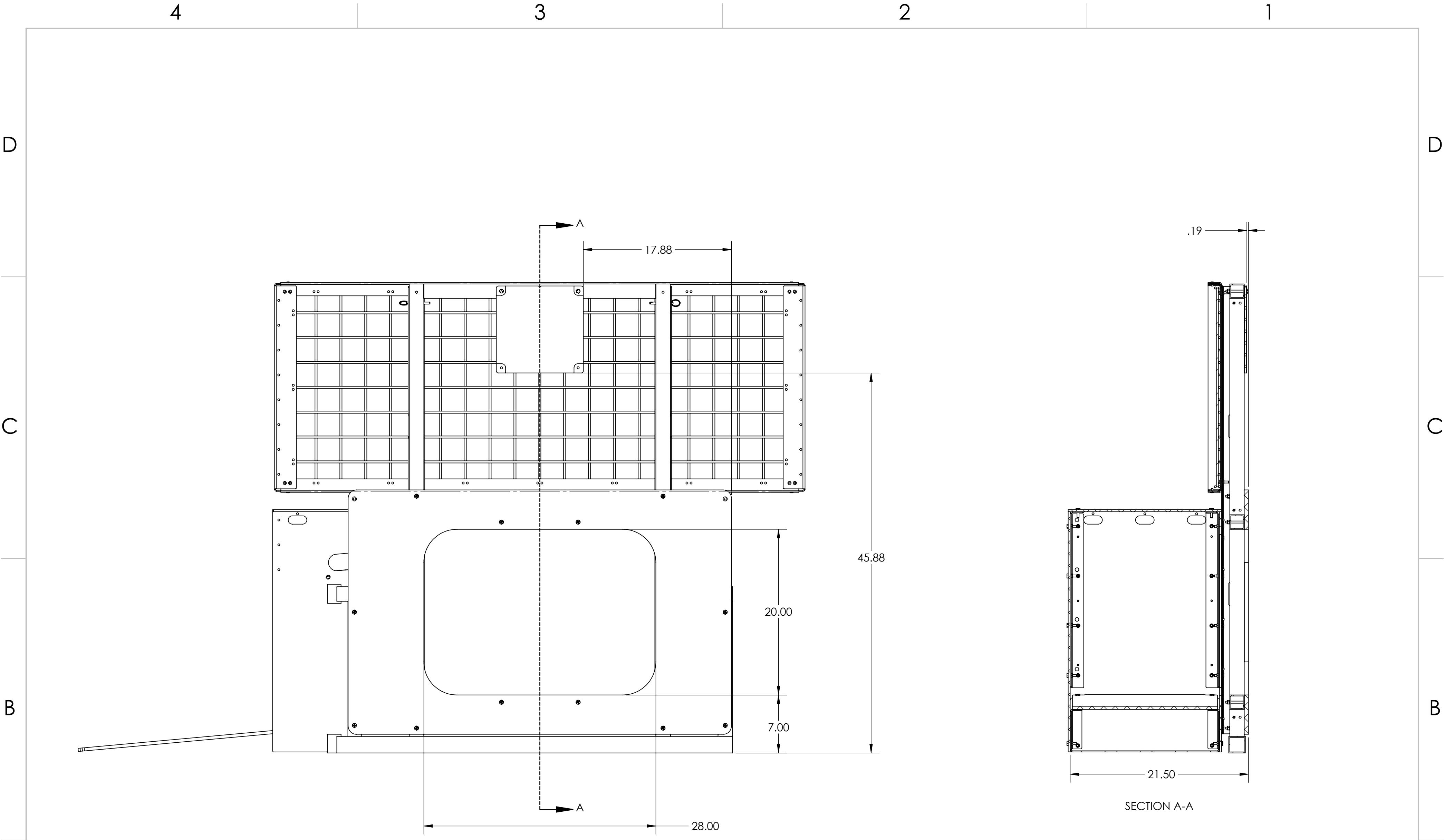
A



Note: April Tag ID # changes depending on which Processor it is on. See the Field Layout and Marking Diagram for more details.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25101	Ramp Assembly	1
2	GE-25116	Fence Frame	1
3	GE-25119	Processor Opening	1
4	GE-25120	Processor Weldment	1
5	FE-00083-ID3	AprilTag	1
6	fence	ULINE Grid	1
7	Configurable Bolt	1" Long 1/4-20 Hex Head Bolt	4
8	Configurable Bolt	2.5" Long 1/4-20 Hex Head Bolt	2
9	flat_phil_.25_20_2.75	Steel Phillips Flat Head Screw, 1/4"-20 x 2-3/4" long, fully threaded	12
10	nylock_.25_20	Steel Nylon-Insert Locknut, 1/4"-20	14
11	pin_quick_ring_.25_2.3125	Pin, Ring-Grip Quick-Release with SS Ring, 1/4" Diameter, 2.3125" Usable Length	6

UNLESS OTHERWISE SPECIFIED:		FIELD	NAME	DATE	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/2 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .50		DRAWN	JO	10/28/2024	
MATERIAL/FINISH:		<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			TITLE:
DO NOT SCALE DRAWING		COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			<b>Processor</b>  SIZE DWG. NO. REV <b>C</b> GE-25100
		SCALE: 1:10			SHEET 1 OF 2



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/2$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .50$	FIELD	NAME	DATE
	DRAWN	JO	10/28/2024
MATERIAL/FINISH:	<b>PROPRIETARY AND CONFIDENTIAL</b>		
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> ®. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> ® IS PROHIBITED.		
DO NOT SCALE DRAWING	<b>COMMENTS:</b>		TITLE:
	REMOVE ALL BURRS AND SHARP EDGES.		<b>Processor</b>
	SIZE	DWG. NO.	REV
	<b>C</b>	GE-25100	
	SCALE: 1:8		SHEET 2 OF 2





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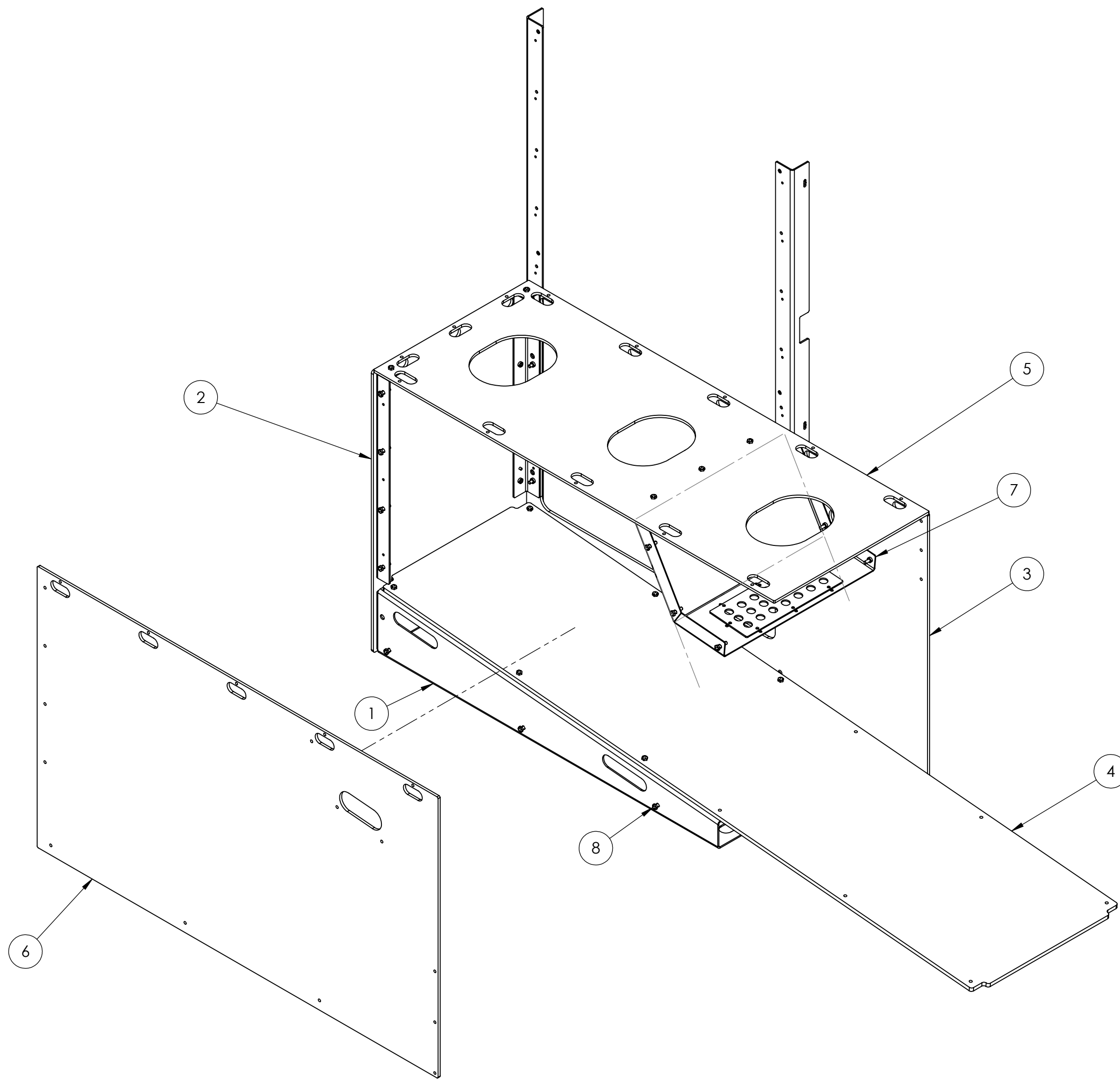
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25102	Processor Ramp Sheetmetal with PEMs	1
2	GE-25104	Processor Ramp Back Assembly	1
3	GE-25107	Processor Fieldside Assembly	1
4	GE-25110	Processor Ramp	1
5	GE-25111	Processor Top Panel	1
6	GE-25112	Processor Humanside Panel	1
7	GE-25113	Sensor Assembly	1
8	Configurable Bolt	1" Long 1/4-20 Hex Head Bolt	35

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL  $\pm 1/2$   
 ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
 TWO PLACE DECIMAL  $\pm .50$

**MATERIAL/FINISH:**

DO NOT SCALE DRAWING

FIELD	NAME	DATE
DRAWN	JO	12/6/2024

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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.



TITLE:  
**Ramp Assembly**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25101	

SCALE: 1:8 SHEET 1 OF 1

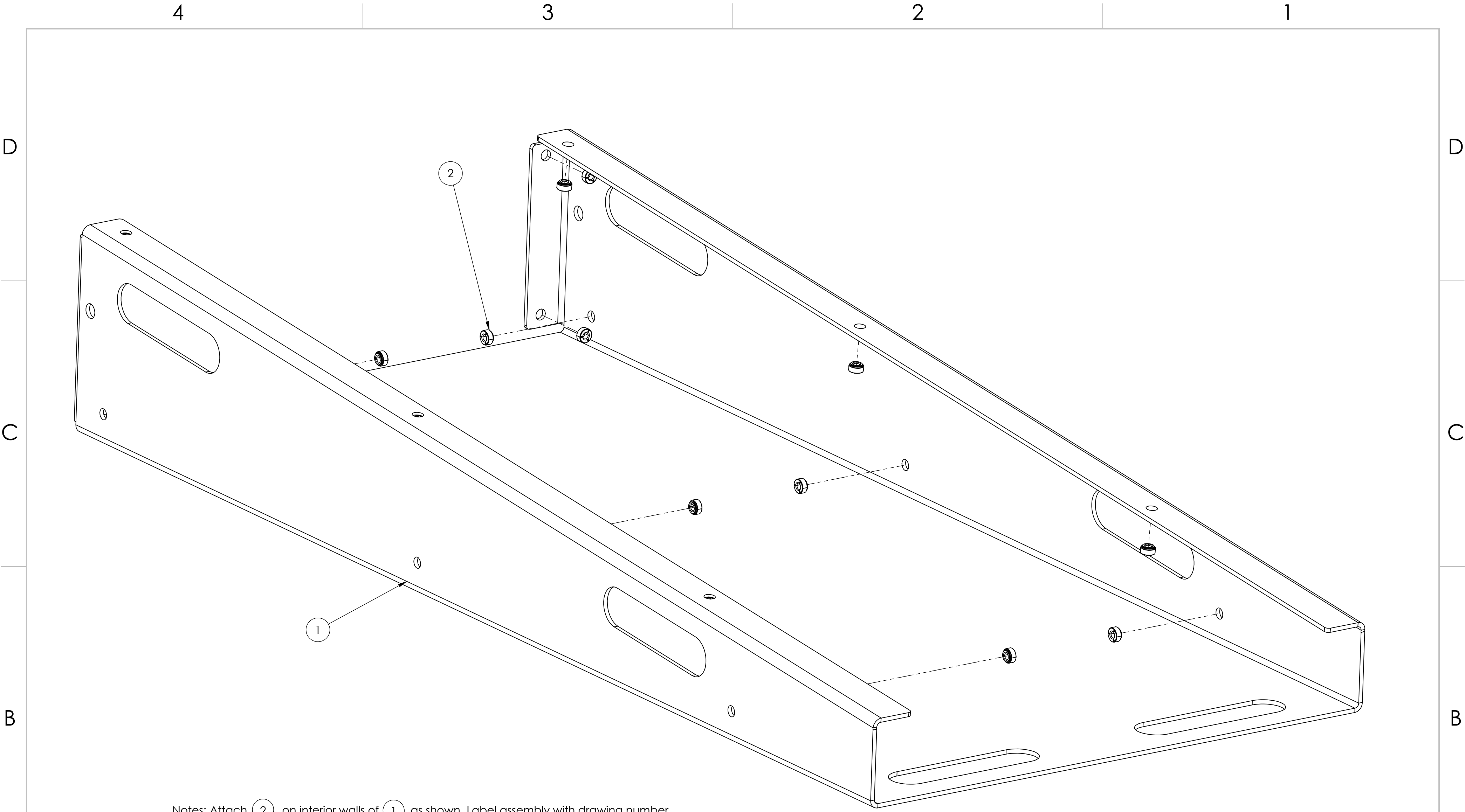
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Notes: Attach (2) on interior walls of (1) as shown. Label assembly with drawing number.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25102-01	Processor Ramp Sheetmetal	1
2	pem_clinchnut_.25_20 _.054	1/4-20 self-clinching nut, .054 shank	16

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ±1/16  
 ANGULAR: MACH ±1° BEND ±1°  
 TWO PLACE DECIMAL ±.01  
 THREE PLACE DECIMAL ±.005

**MATERIAL/FINISH:**



DO NOT SCALE DRAWING

VEND	NAME	DATE
DRAWN	JO	10/2/2024

**PROPRIETARY AND CONFIDENTIAL**

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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.

 		
<b>TITLE: Processor Ramp Sheetmetal with PEMs</b>		
SIZE	DWG. NO.	REV
<b>C</b>	GE-25102	
SCALE: 1:2		SHEET 1 OF 1



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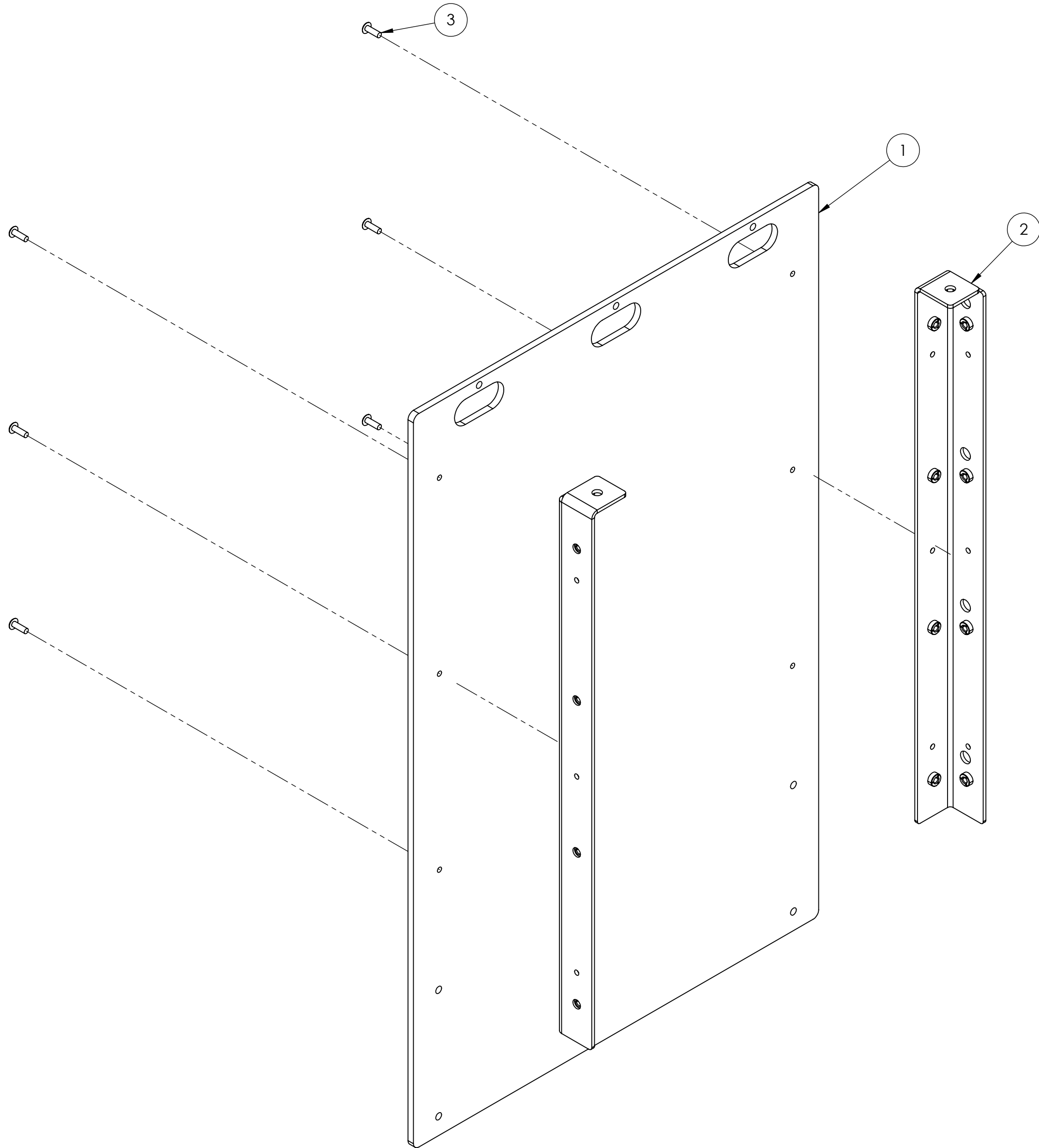
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Notes: Attach ① to ② using ③ as shown. Label assembly with drawing number.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25105	Processor Ramp Back Panel	1
2	GE-25106	Processor Inner Corner Bracket w/ PEMS	2
3	rivet_.1875_.251-.375	3/16" Aluminum Rivet, .251-.375 Grip Range	6

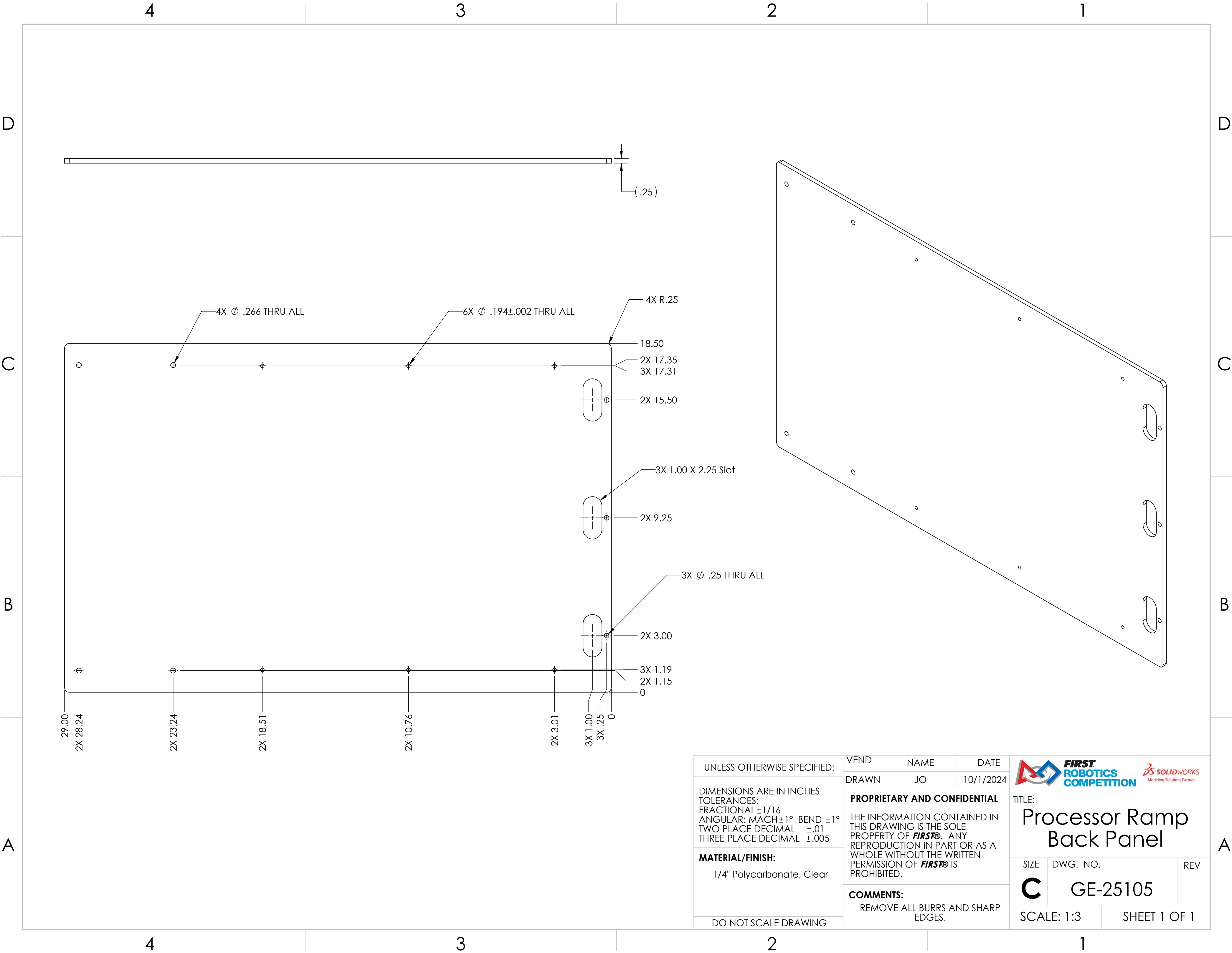
UNLESS OTHERWISE SPECIFIED:		VEND	NAME	DATE
DIMENSIONS ARE IN INCHES		DRAWN	JO	10/2/2024
TOLERANCES:		 		
FRACTIONAL ±1/16				
ANGULAR: MACH ±1° BEND ±1°				
TWO PLACE DECIMAL ±.01				
THREE PLACE DECIMAL ±.005		<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.		
<b>MATERIAL/FINISH:</b>		<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		
DO NOT SCALE DRAWING		<b>TITLE:</b> <h1>Processor Ramp Back Assembly</h1>		
		SIZE	DWG. NO.	REV
		<b>C</b>	GE-25104	
		SCALE: 1:3		SHEET 1 OF 1

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UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ± 1/16  
 ANGULAR: MACH ± 1° BEND ± 1°  
 TWO PLACE DECIMAL ± .01  
 THREE PLACE DECIMAL ± .005

**MATERIAL/FINISH:**  
 1/4" Polycarbonate, Clear

**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.

VEND	NAME	DATE
DRAWN	JO	10/1/2024

**PROPRIETARY AND CONFIDENTIAL**  
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DO NOT SCALE DRAWING



TITLE:  
**Processor Ramp Back Panel**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25105	

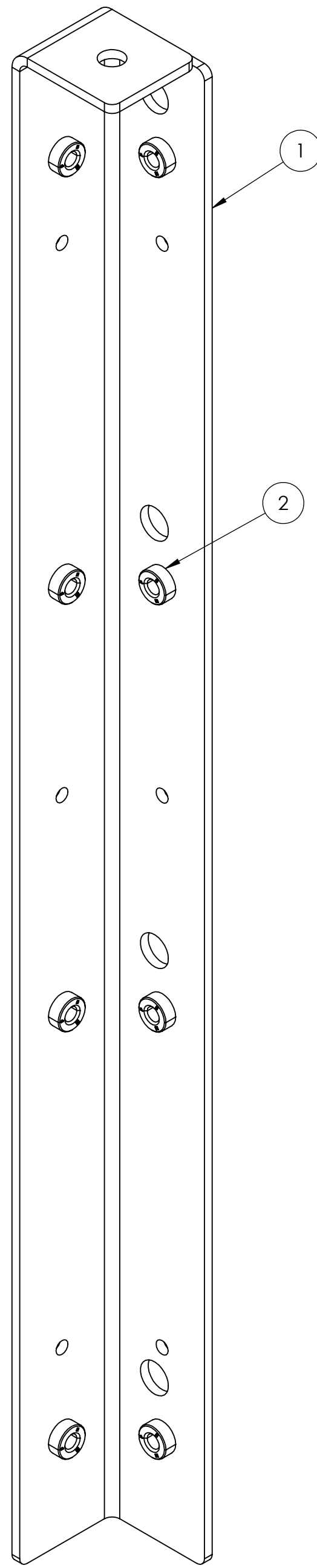
SCALE: 1:3 SHEET 1 OF 1

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Notes: Attach (2) to (1) as shown.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25106-01	Processor Inner Corner Bracket	1
2	pem_clinchnut_.25_20 _.054	1/4-20 self-clinching nut, .054 shank	8

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ±1/16  
 ANGULAR: MACH ±1° BEND ±1°  
 TWO PLACE DECIMAL ±.01  
 THREE PLACE DECIMAL ±.005

**MATERIAL/FINISH:**

DO NOT SCALE DRAWING

VEND	NAME	DATE
DRAWN	JO	10/2/2024

**PROPRIETARY AND CONFIDENTIAL**

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**COMMENTS:**

REMOVE ALL BURRS AND SHARP EDGES.



TITLE: Processor Inner Corner Bracket w/ PEMs

SIZE	DWG. NO.	REV
<b>C</b>	GE-25106	

SCALE: 3:4 SHEET 1 OF 1

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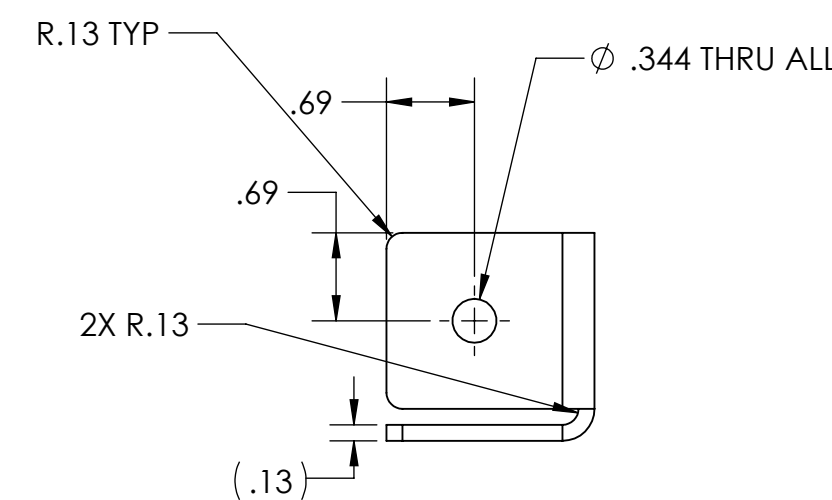
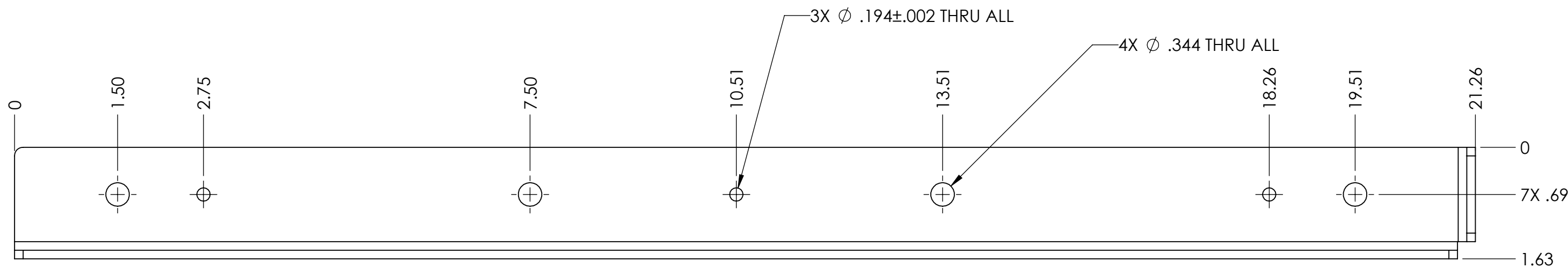
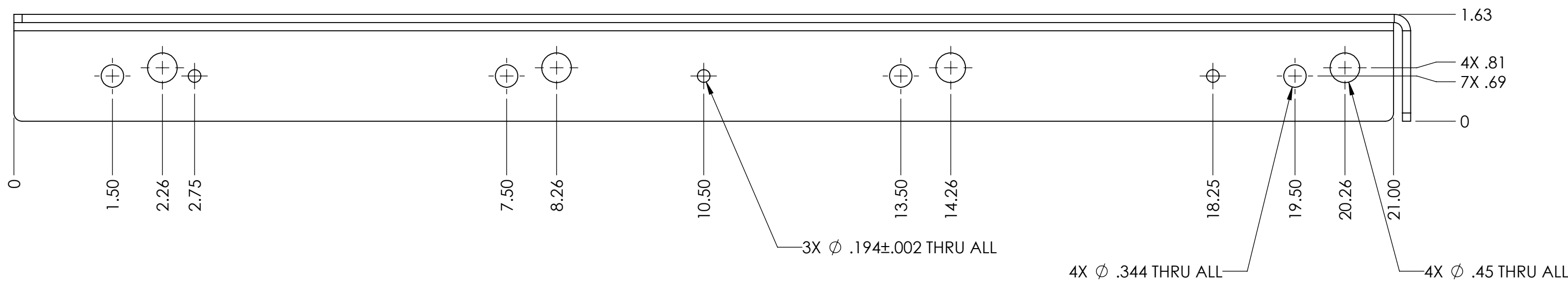
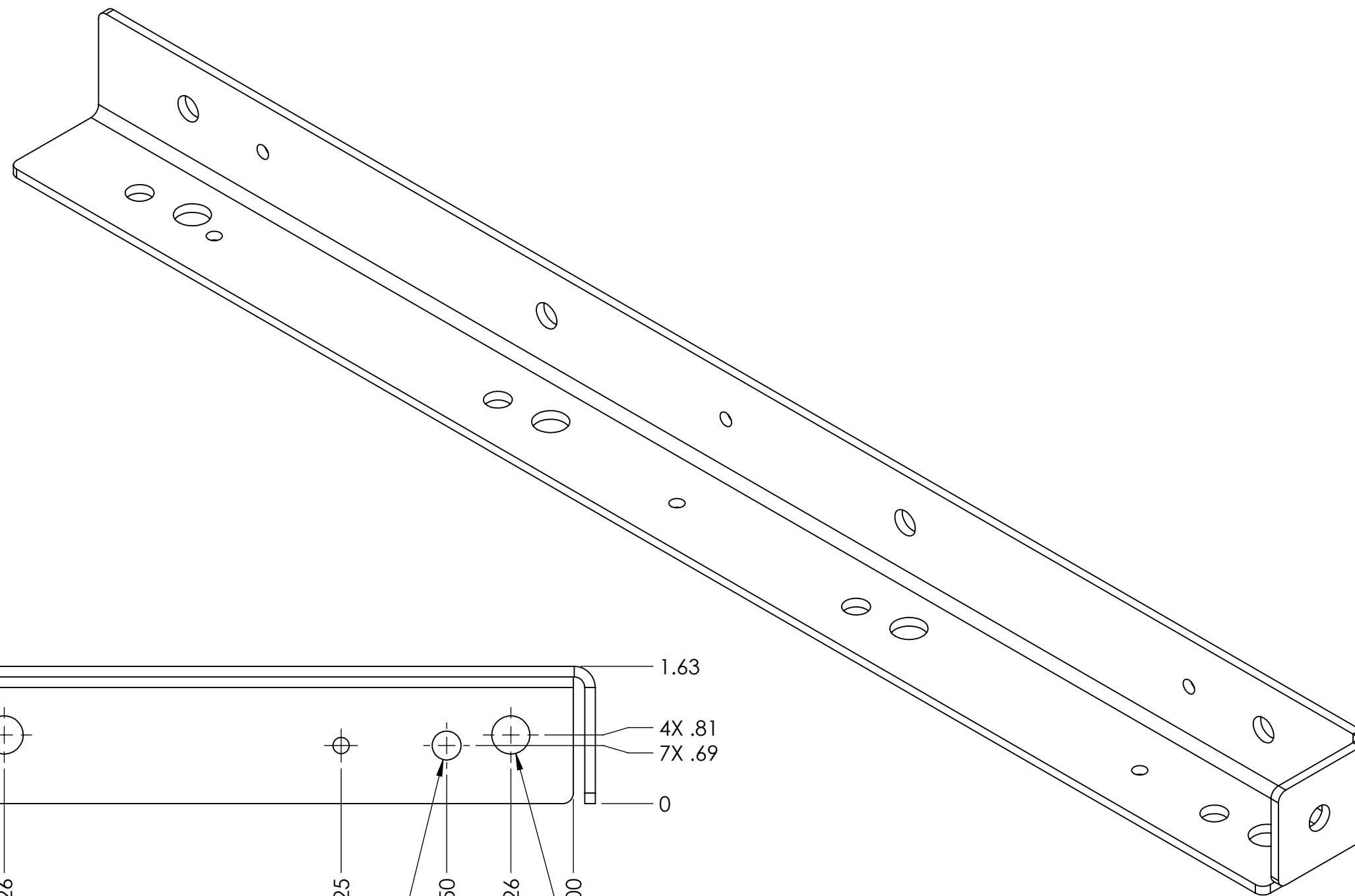


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UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL  $\pm$  1/16  
 ANGULAR: MACH  $\pm$  1° BEND  $\pm$  1°  
 TWO PLACE DECIMAL  $\pm$  .02  
 THREE PLACE DECIMAL  $\pm$  .010

**MATERIAL/FINISH:**  
 8 Ga 5052 Aluminum

DO NOT SCALE DRAWING

BEND	NAME	DATE
DRAWN	JO	10/1/2024

**PROPRIETARY AND CONFIDENTIAL**  
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF **FIRST**®. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF **FIRST**® IS PROHIBITED.

**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.



TITLE:  
**Processor Inner Corner Bracket**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25106-01	

SCALE: 2:3 SHEET 1 OF 1

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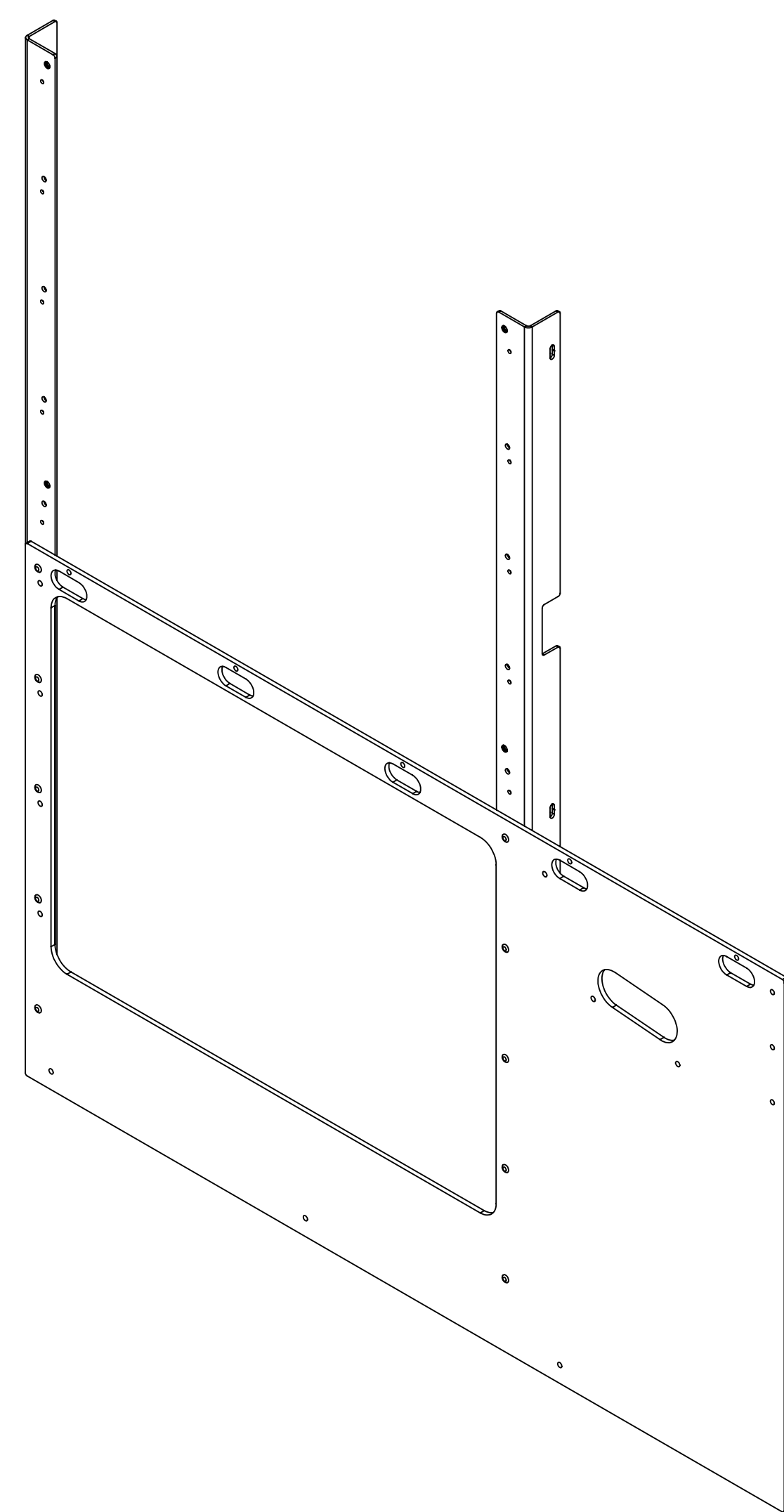
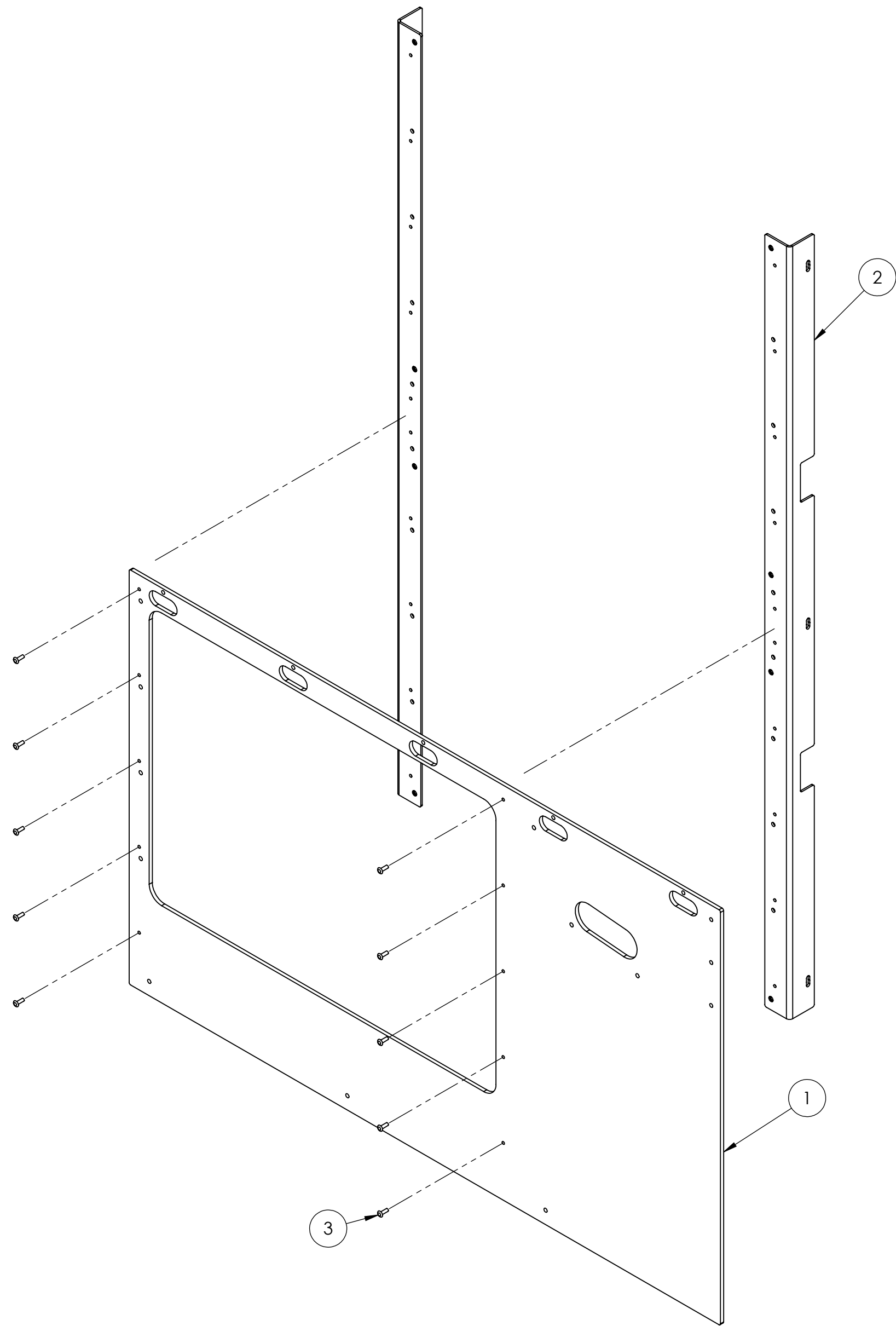
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Notes: Attach (2) to (1) with (3). Label Assembly with drawing number.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25108	Processor Fieldside Panel	1
2	GE-25109	Upright Sheetmetal w/ PEMs	2
3	rivet_.1875_.251-.375	3/16" Aluminum Rivet, .251-.375 Grip Range	10

UNLESS OTHERWISE SPECIFIED:		VEND	NAME	DATE
DIMENSIONS ARE IN INCHES		DRAWN	JO	10/2/2024
TOLERANCES:		<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.		
FRACTIONAL ±1/16				
ANGULAR: MACH ±1° BEND ±1°				
TWO PLACE DECIMAL ±.01				
THREE PLACE DECIMAL ±.005		<b>FIRST ROBOTICS COMPETITION</b>  Modeling Solutions Partner		
<b>MATERIAL/FINISH:</b>		TITLE: <b>Processor Fieldside Assembly</b>		
<b>COMMENTS:</b>		SIZE	DWG. NO.	REV
REMOVE ALL BURRS AND SHARP EDGES.		<b>C</b>	GE-25107	
DO NOT SCALE DRAWING		SCALE: 1:6		SHEET 1 OF 1

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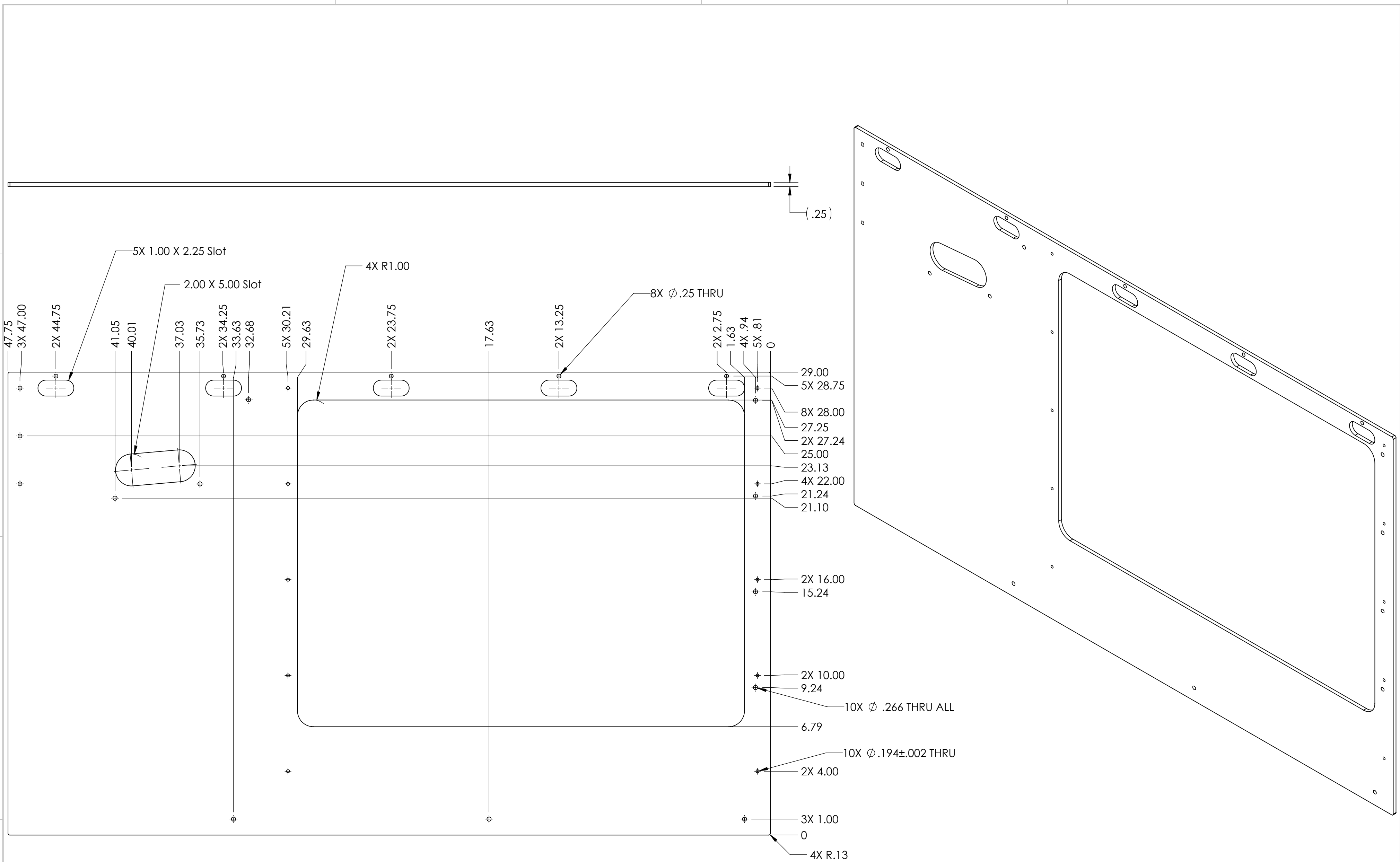
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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm$ 1/16 ANGULAR: MACH $\pm$ 1° BEND $\pm$ 1° TWO PLACE DECIMAL $\pm$ .01 THREE PLACE DECIMAL $\pm$ .005 <b>MATERIAL/FINISH:</b> 1/4" Polycarbonate, Clear	VEND	NAME	DATE	 
	DRAWN	JO	10/1/2024	
DO NOT SCALE DRAWING	<b>PROPRIETARY AND CONFIDENTIAL</b>			TITLE: <h2>Processor Fieldside Panel</h2>
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> ®. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> ® IS PROHIBITED.			
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			DWG. NO. <b>GE-25108</b>
				REV
	SCALE: 12:50			SHEET 1 OF 1

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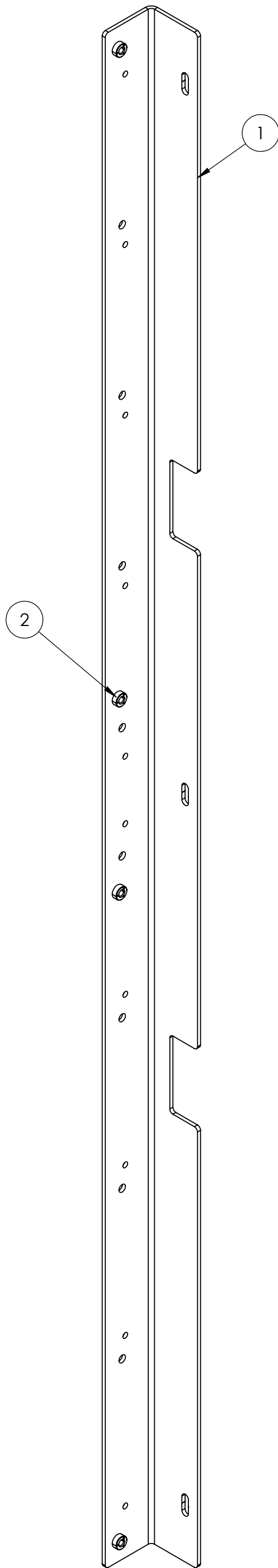
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Notes: Attach (2) to (1) as shown.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25109-01	Upright Sheetmetal	1
2	pem_clinchnut_.25_20 _.054	1/4-20 self-clinching nut, .054 shank	4

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ± 1/16  
 ANGULAR: MACH ± 1° BEND ± 1°  
 TWO PLACE DECIMAL ± .01  
 THREE PLACE DECIMAL ± .005

**MATERIAL/FINISH:**

**COMMENTS:**

DO NOT SCALE DRAWING

VEND	NAME	DATE
DRAWN	JO	10/2/2024

**PROPRIETARY AND CONFIDENTIAL**  
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REMOVE ALL BURRS AND SHARP EDGES.



TITLE: Upright Sheetmetal w/ PEMs

SIZE	DWG. NO.	REV
<b>C</b>	GE-25109	

SCALE: 1:3 SHEET 1 OF 1

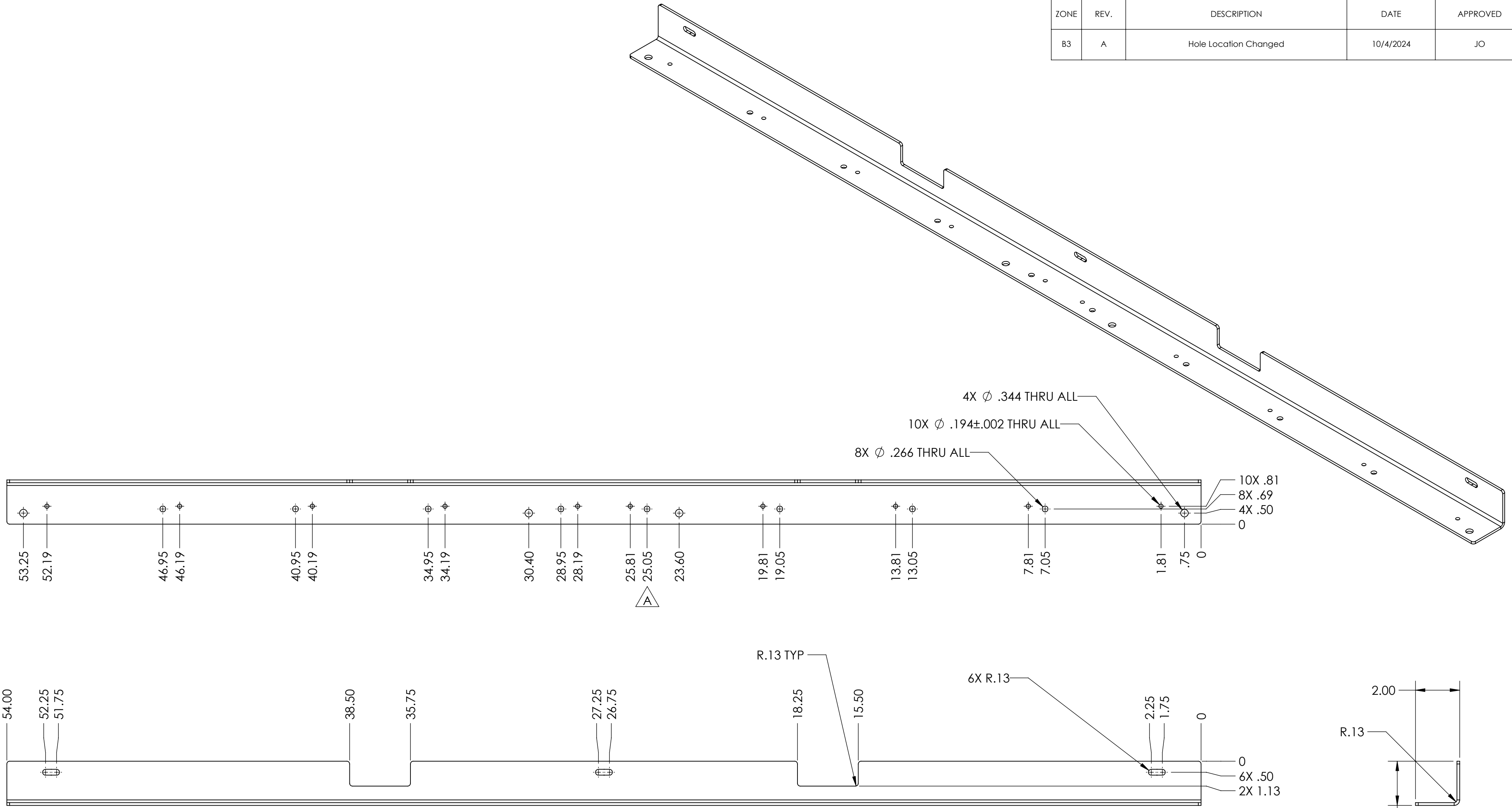
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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
B3	A	Hole Location Changed	10/4/2024	JO



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.02 THREE PLACE DECIMAL ±.010	BEND	NAME	DATE
	DRAWN	JO	9/30/2024
<b>MATERIAL/FINISH:</b> 8 Ga 5052 Aluminum	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.		
DO NOT SCALE DRAWING	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		

**FIRST ROBOTICS COMPETITION** **SOLIDWORKS** Modeling Solutions Partner

TITLE: **Upright Sheetmetal**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25109-01	<b>A</b>

SCALE: 3:10 SHEET 1 OF 1



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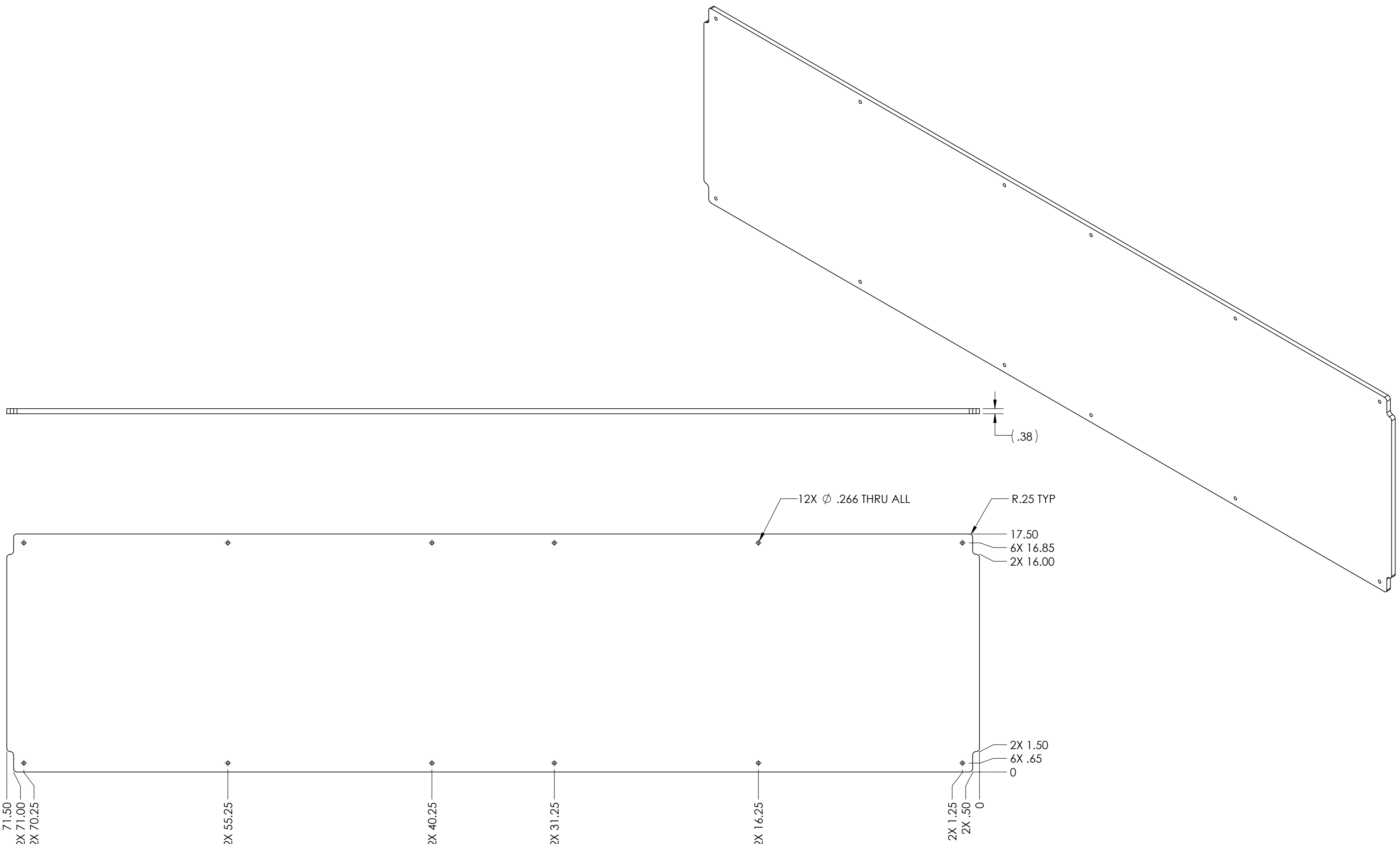
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UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .005$  <b>MATERIAL/FINISH:</b> 3/8" HDPE, Matte Black Finish  DO NOT SCALE DRAWING	VEND	NAME	DATE	 	
	DRAWN	JO	9/30/2024		
	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.			TITLE: <b>Processor Ramp</b>	
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			SIZE <b>C</b>	DWG. NO. <b>GE-25110</b>
			SCALE: 1:5	REV SHEET 1 OF 1	

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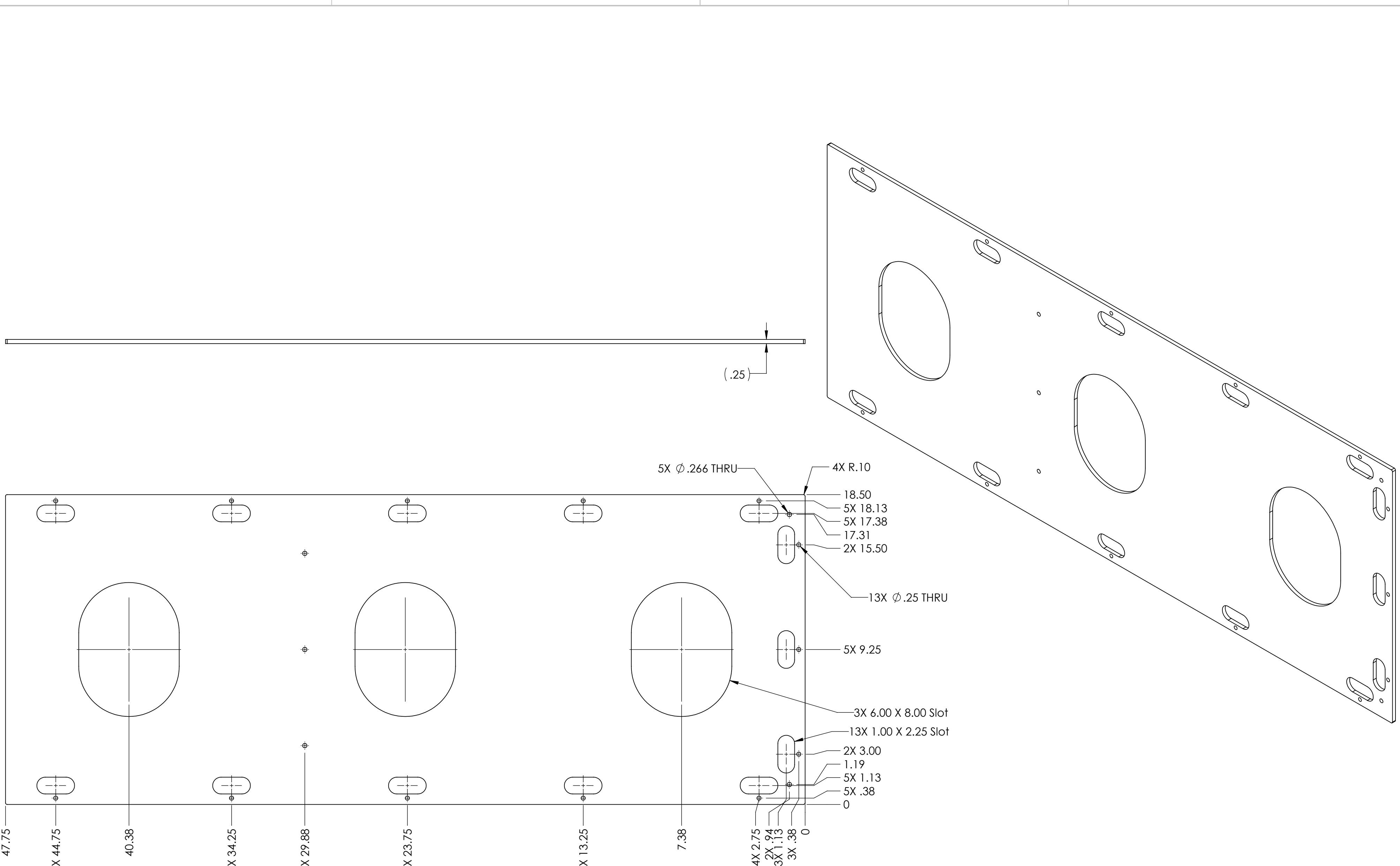
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UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .005$  <b>MATERIAL/FINISH:</b> 1/4" Polycarbonate, Clear  DO NOT SCALE DRAWING	VEND	NAME	DATE	 	
	DRAWN	JO	9/30/2024		
	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.				TITLE:
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.				<b>Processor Top Panel</b>  SIZE DWG. NO. REV <b>C</b> GE-25111 SCALE: 1:4 SHEET 1 OF 1

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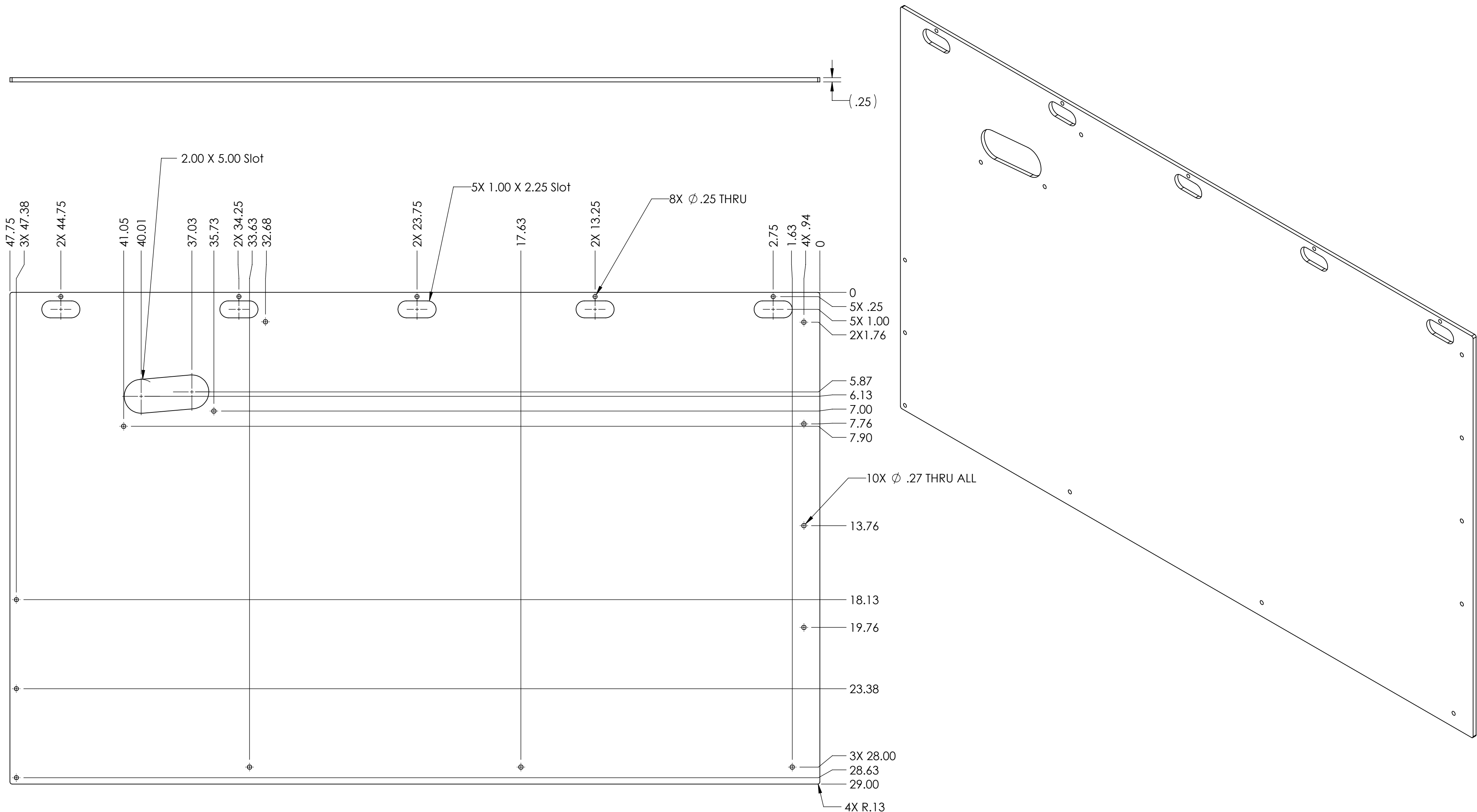
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<p>UNLESS OTHERWISE SPECIFIED:</p> <p>DIMENSIONS ARE IN INCHES  TOLERANCES:  FRACTIONAL <math>\pm 1/16</math>  ANGULAR: MACH <math>\pm 1^\circ</math> BEND <math>\pm 1^\circ</math>  TWO PLACE DECIMAL <math>\pm .01</math>  THREE PLACE DECIMAL <math>\pm .005</math></p> <p><b>MATERIAL/FINISH:</b>  1/4" Polycarbonate, Clear</p> <p>DO NOT SCALE DRAWING</p>	VEND	NAME	DATE	 	
	DRAWN	JO	10/1/2024		
	<p><b>PROPRIETARY AND CONFIDENTIAL</b></p> <p>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b>. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.</p>				TITLE:
	<p><b>COMMENTS:</b>  REMOVE ALL BURRS AND SHARP EDGES.</p>				<p>Processor Humanside Panel</p>
<p>SIZE</p>		<p>DWG. NO.</p>		<p>REV</p>	
<p><b>C</b></p>		<p>GE-25112</p>			
<p>SCALE: 6:25</p>			<p>SHEET 1 OF 1</p>		

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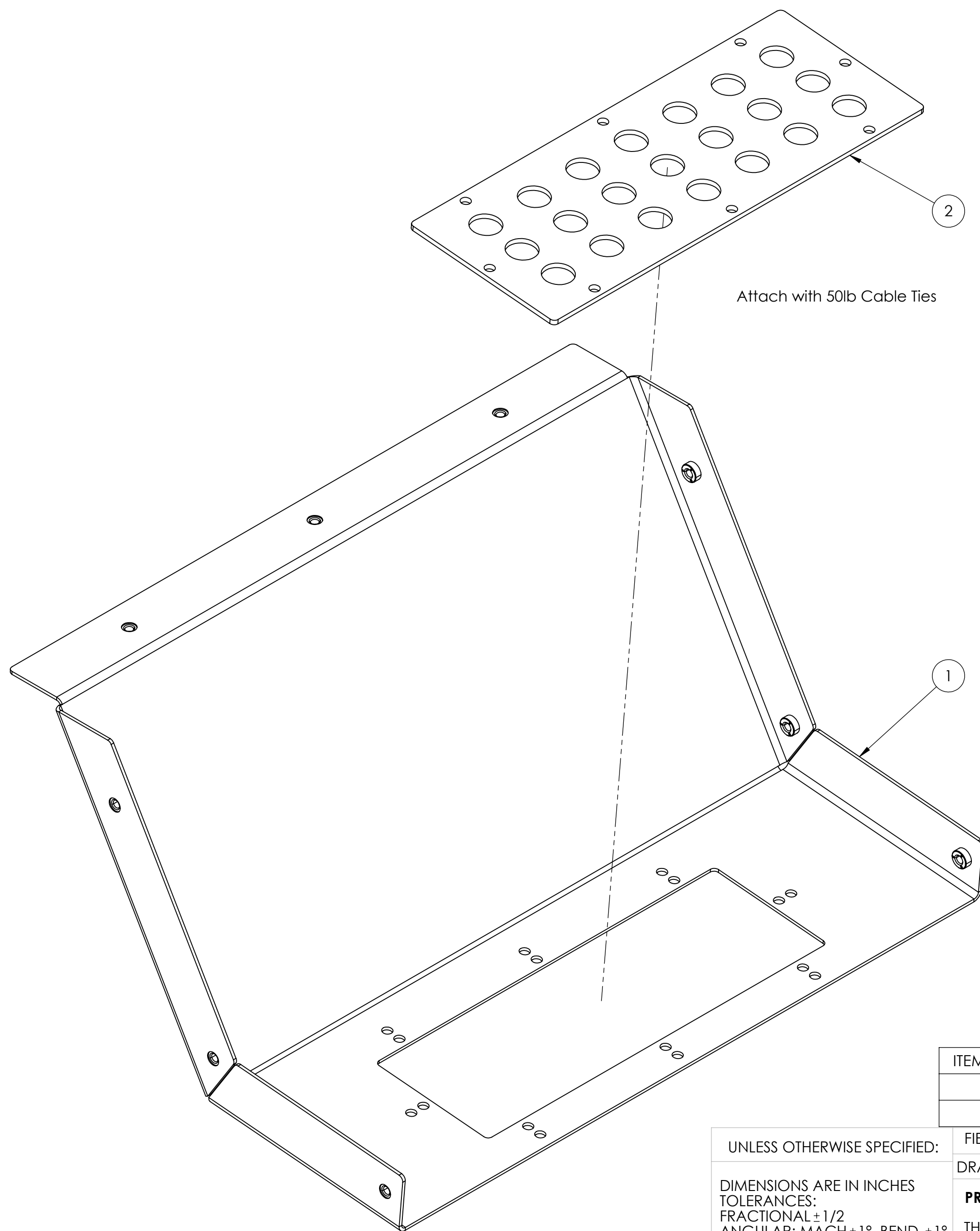
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Attach with 50lb Cable Ties

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25114	Sensor Mount	1
2	GE-25115	Processor Sensor Plate	1

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL  $\pm 1/2$   
 ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
 TWO PLACE DECIMAL  $\pm .50$



**MATERIAL/FINISH:**

**DO NOT SCALE DRAWING**

FIELD	NAME	DATE
DRAWN	JO	12/6/2024

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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.

TITLE:  
**Sensor Assembly**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25113	

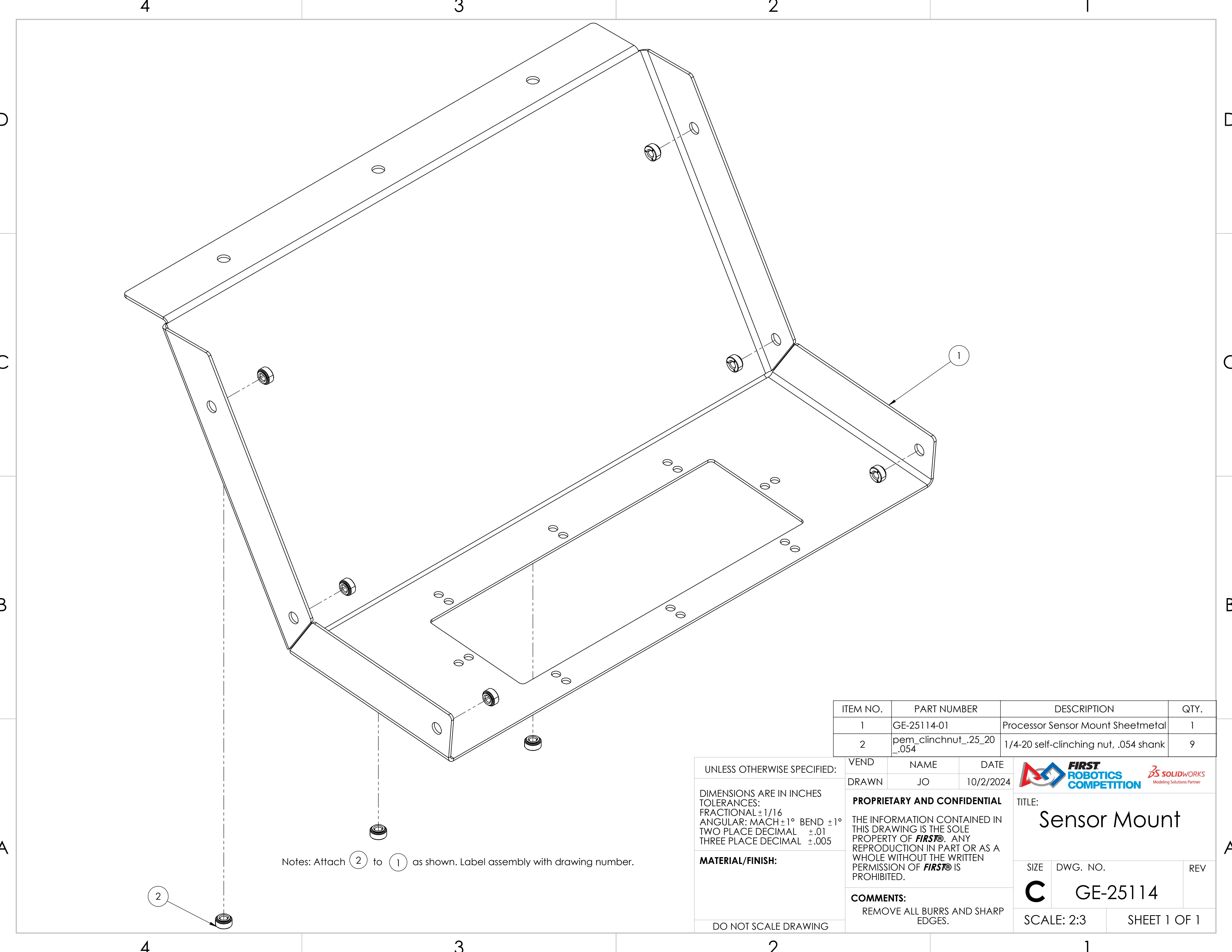
SCALE: 1:2      SHEET 1 OF 1

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Notes: Attach ② to ① as shown. Label assembly with drawing number.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25114-01	Processor Sensor Mount Sheetmetal	1
2	pem_clinchnut_.25_20 -.054	1/4-20 self-clinching nut, .054 shank	9

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ±1/16  
 ANGULAR: MACH ±1° BEND ±1°  
 TWO PLACE DECIMAL ±.01  
 THREE PLACE DECIMAL ±.005

**MATERIAL/FINISH:**



DO NOT SCALE DRAWING

VEND	NAME	DATE
DRAWN	JO	10/2/2024

**PROPRIETARY AND CONFIDENTIAL**

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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.

TITLE:  
**Sensor Mount**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25114	

SCALE: 2:3      SHEET 1 OF 1





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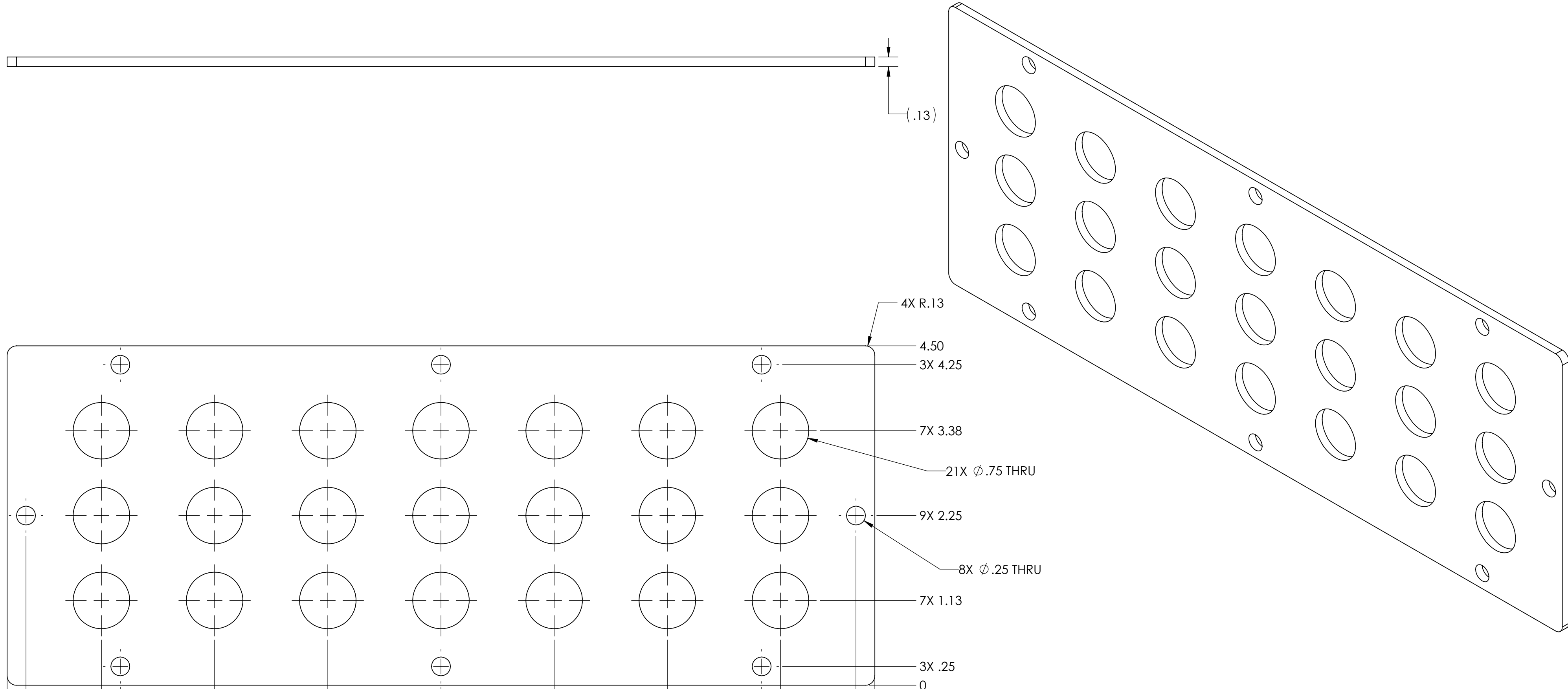
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11.50  
11.25  
3X 10.25  
2X 10.00  
3X 8.75  
3X 7.25  
5X 5.75  
3X 4.25  
3X 2.75  
2X 1.50  
3X 1.25  
.25  
0

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ± 1/16  
 ANGULAR: MACH ± 1° BEND ± 1°  
 TWO PLACE DECIMAL ± .01  
 THREE PLACE DECIMAL ± .005

**MATERIAL/FINISH:**  
 1/8" Polycarbonate, Clear



DO NOT SCALE DRAWING

VEND	NAME	DATE
DRAWN	JO	9/30/2024

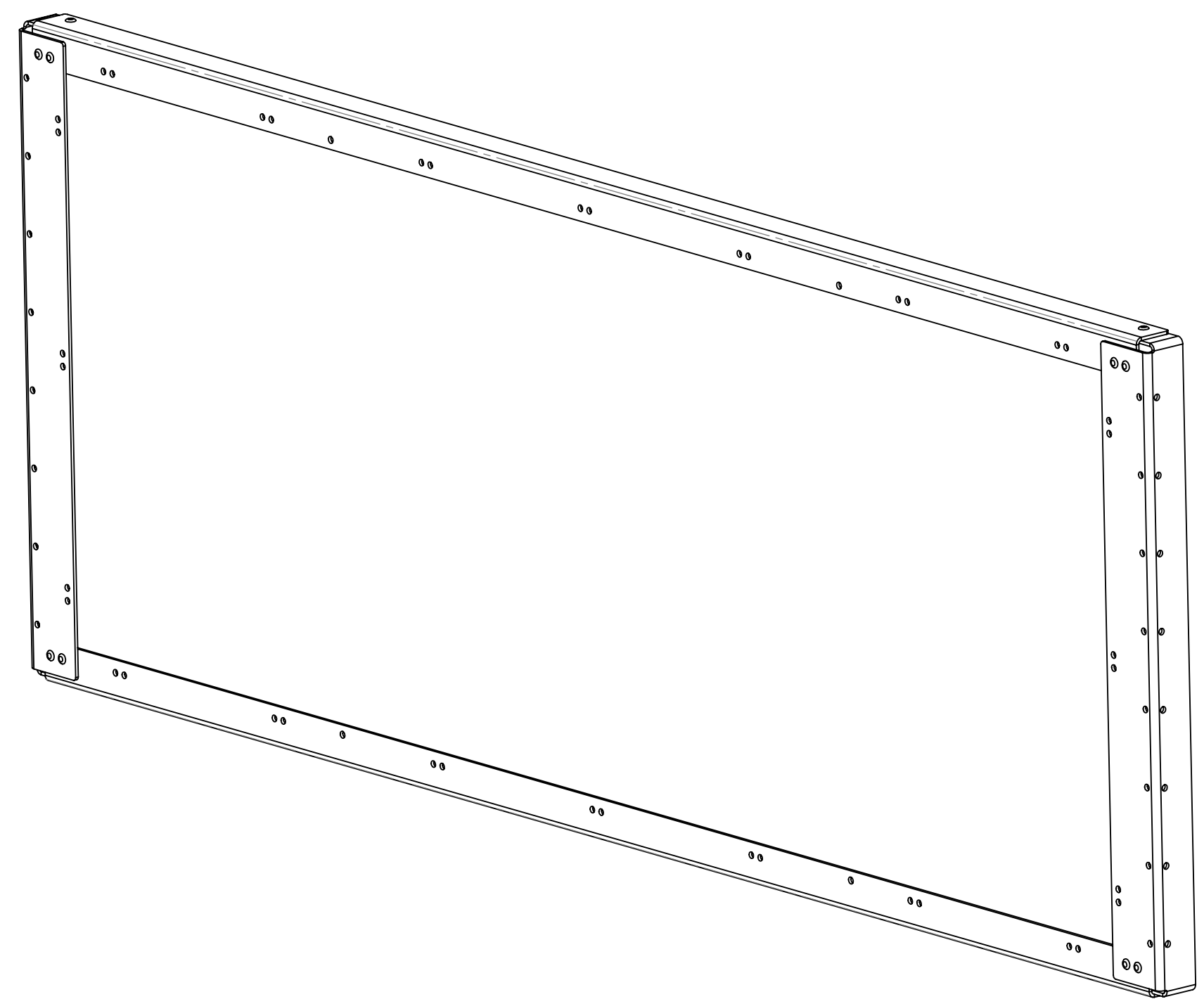
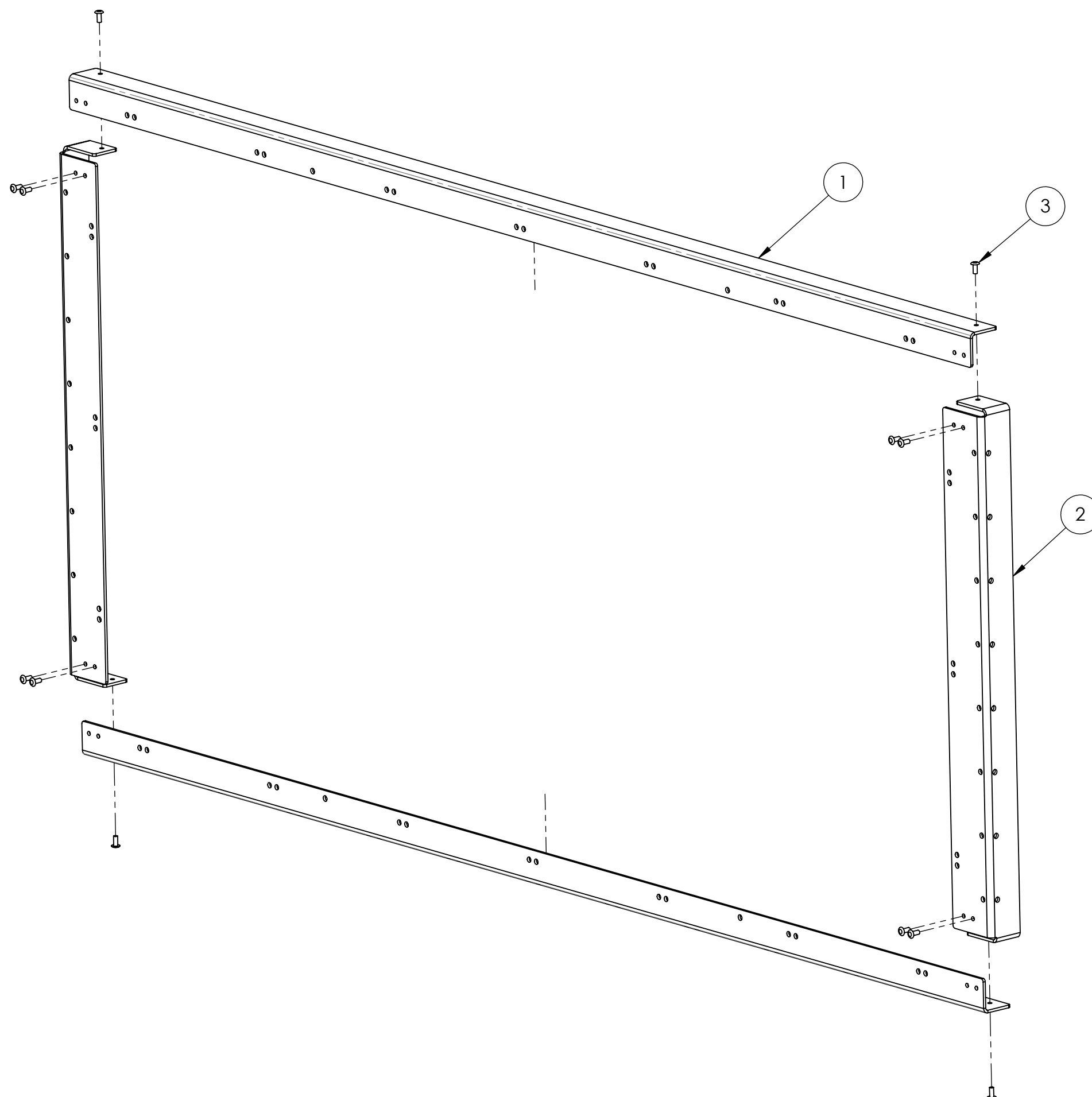
**PROPRIETARY AND CONFIDENTIAL**

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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.

 		
TITLE:		
<h1>Processor Sensor Plate</h1>		
SIZE	DWG. NO.	REV
<b>C</b>	GE-25115	
SCALE: 1:1		SHEET 1 OF 1

4X R.13  
 4.50  
 3X 4.25  
 7X 3.38  
 21X Ø.75 THRU  
 9X 2.25  
 8X Ø.25 THRU  
 7X 1.13  
 3X .25  
 0



Notes: Attach (1) to (2) with (3). Label assembly with drawing number.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25117	Fence Long Rail	2
2	GE-25118	Fence Short Rail	2
3	rivet_.1875_.126-.25	3/16" Rivet, .126-.25 Grip Range	12

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL  $\pm 1/16$   
 ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
 TWO PLACE DECIMAL  $\pm .01$   
 THREE PLACE DECIMAL  $\pm .005$

**MATERIAL/FINISH:**



DO NOT SCALE DRAWING

VEND	NAME	DATE
DRAWN	JO	10/2/2024

**PROPRIETARY AND CONFIDENTIAL**

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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.

TITLE: **Fence Frame**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25116	

SCALE: 1:5      SHEET 1 OF 1

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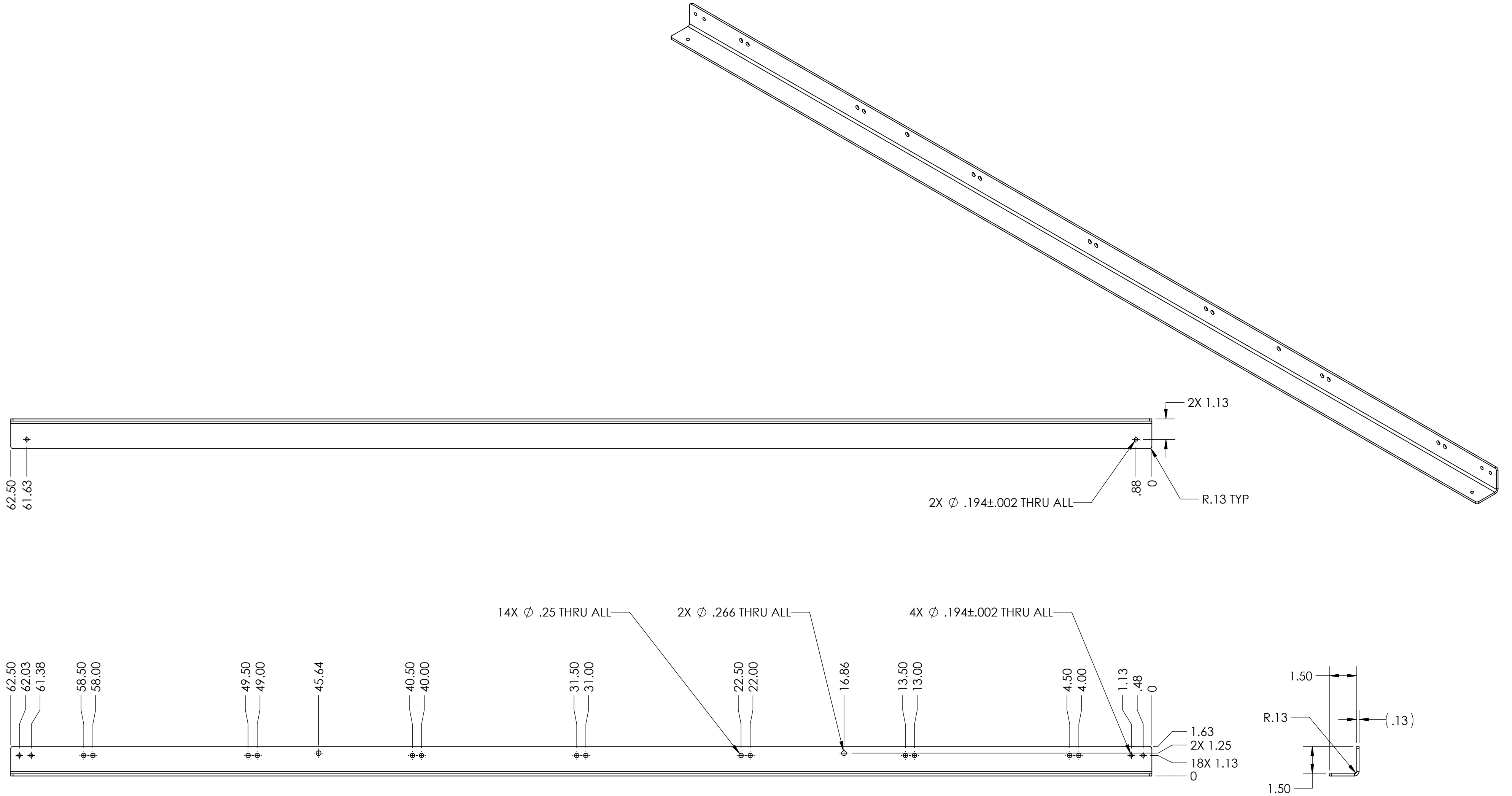
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UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .02 THREE PLACE DECIMAL ± .010  <b>MATERIAL/FINISH:</b> 8 Ga 5052 Aluminum  DO NOT SCALE DRAWING	BEND	NAME	DATE
	DRAWN	JO	9/30/2024
	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.		
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		

 		
TITLE: Fence Long Rail		
SIZE	DWG. NO.	REV
<b>C</b>	GE-25117	
SCALE: 1:4		SHEET 1 OF 1

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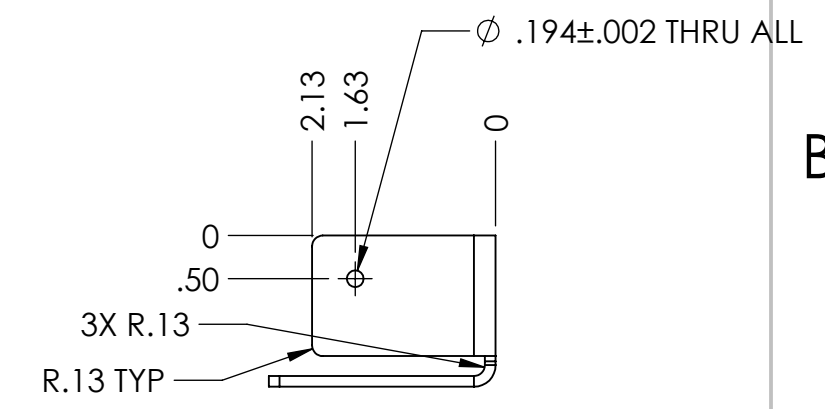
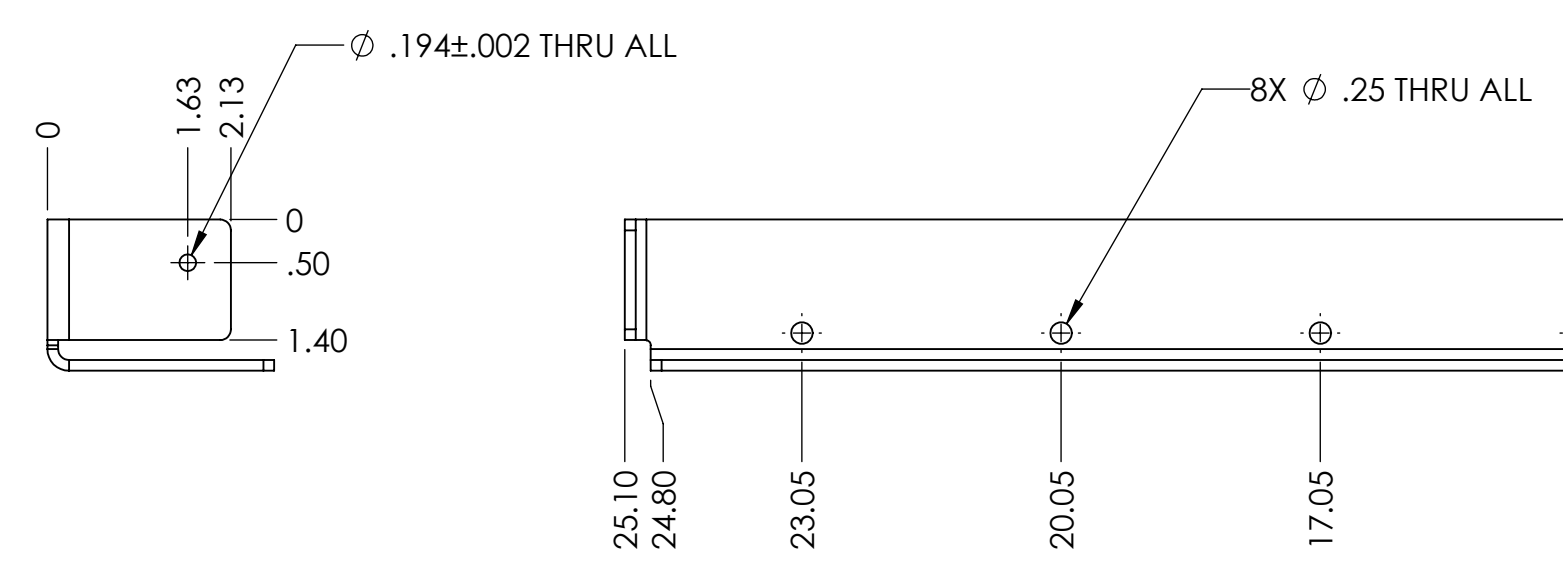
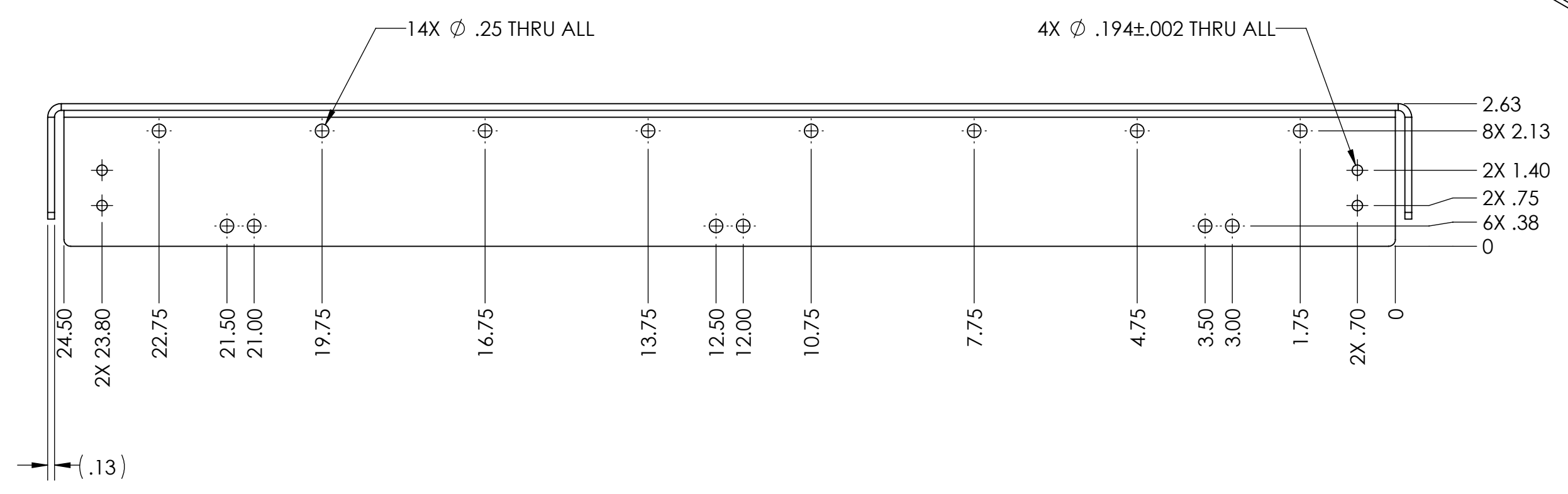
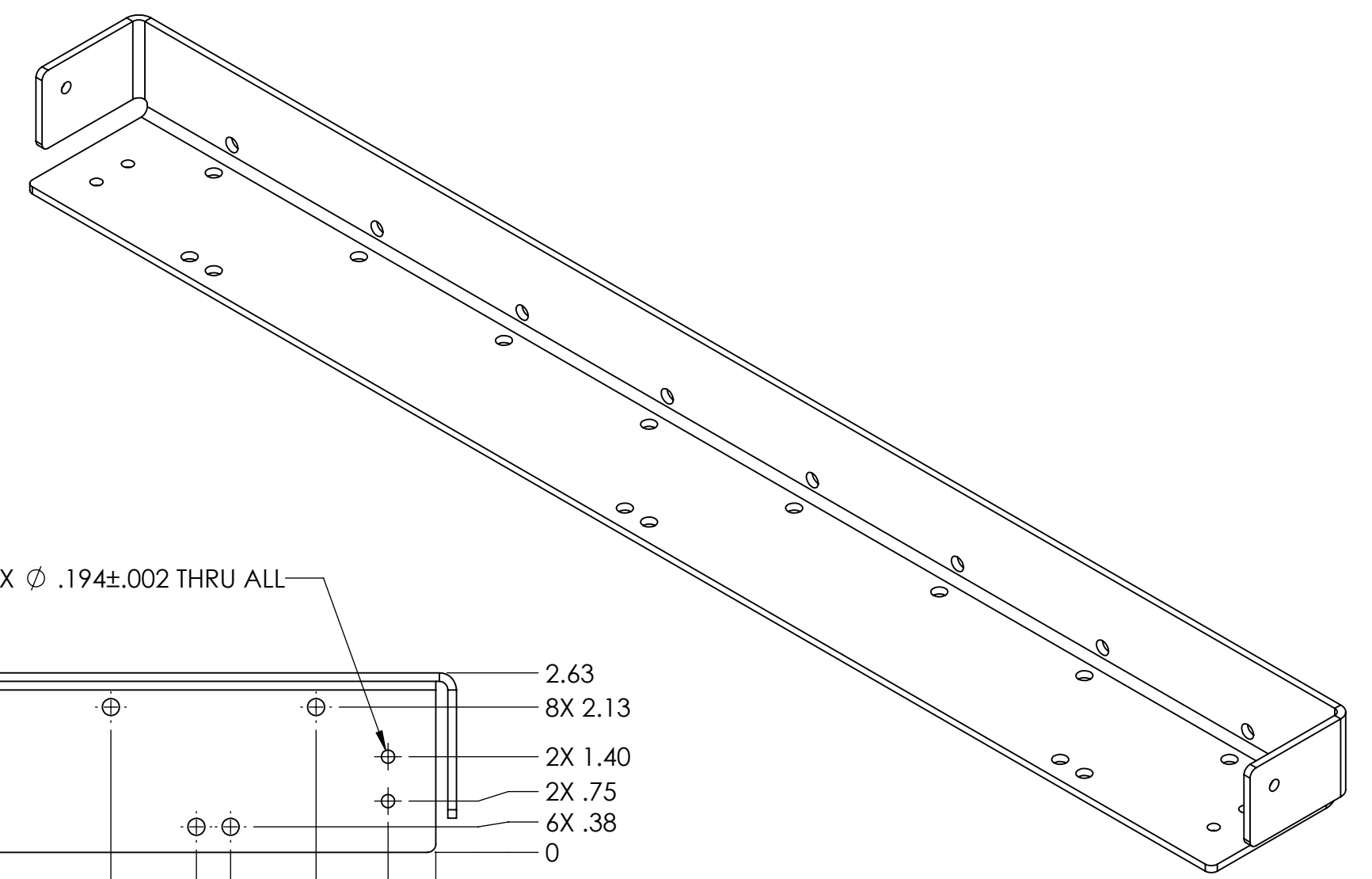
C

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UNLESS OTHERWISE SPECIFIED:	BEND	NAME	DATE
	DRAWN	JO	9/30/2024
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm$ 1/16 ANGULAR: MACH $\pm$ 1° BEND $\pm$ 1° TWO PLACE DECIMAL $\pm$ .02 THREE PLACE DECIMAL $\pm$ .010	<b>PROPRIETARY AND CONFIDENTIAL</b>		
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> ®. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> ® IS PROHIBITED.		
<b>MATERIAL/FINISH:</b> 8 Ga 5052 Aluminum	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		
DO NOT SCALE DRAWING			

**FIRST ROBOTICS COMPETITION** **SOLIDWORKS** Modeling Solutions Partner

TITLE: **Fence Short Rail**

SIZE	DWG. NO.	REV
<b>C</b>	<b>GE-25118</b>	
SCALE: 9:20		SHEET 1 OF 1



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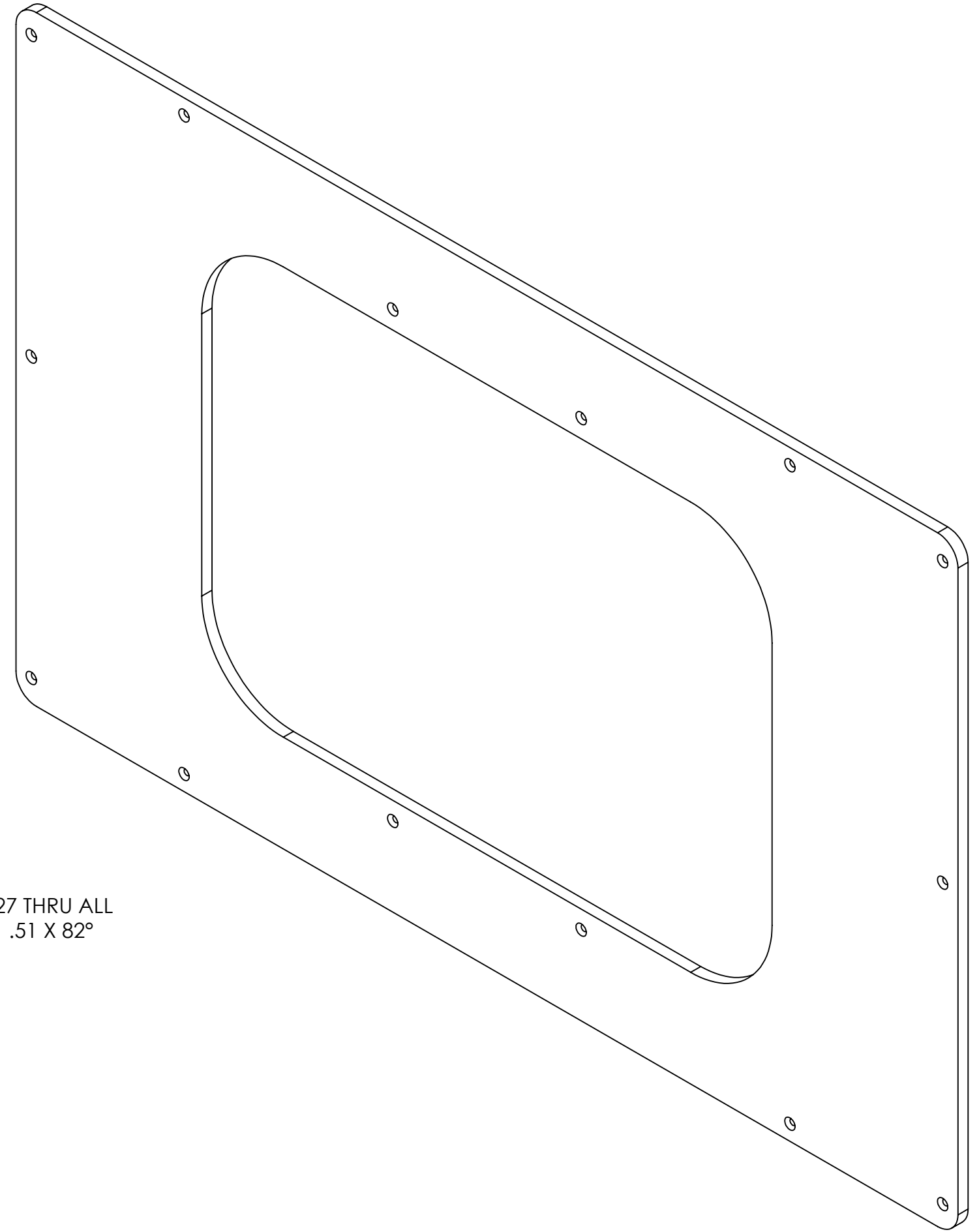
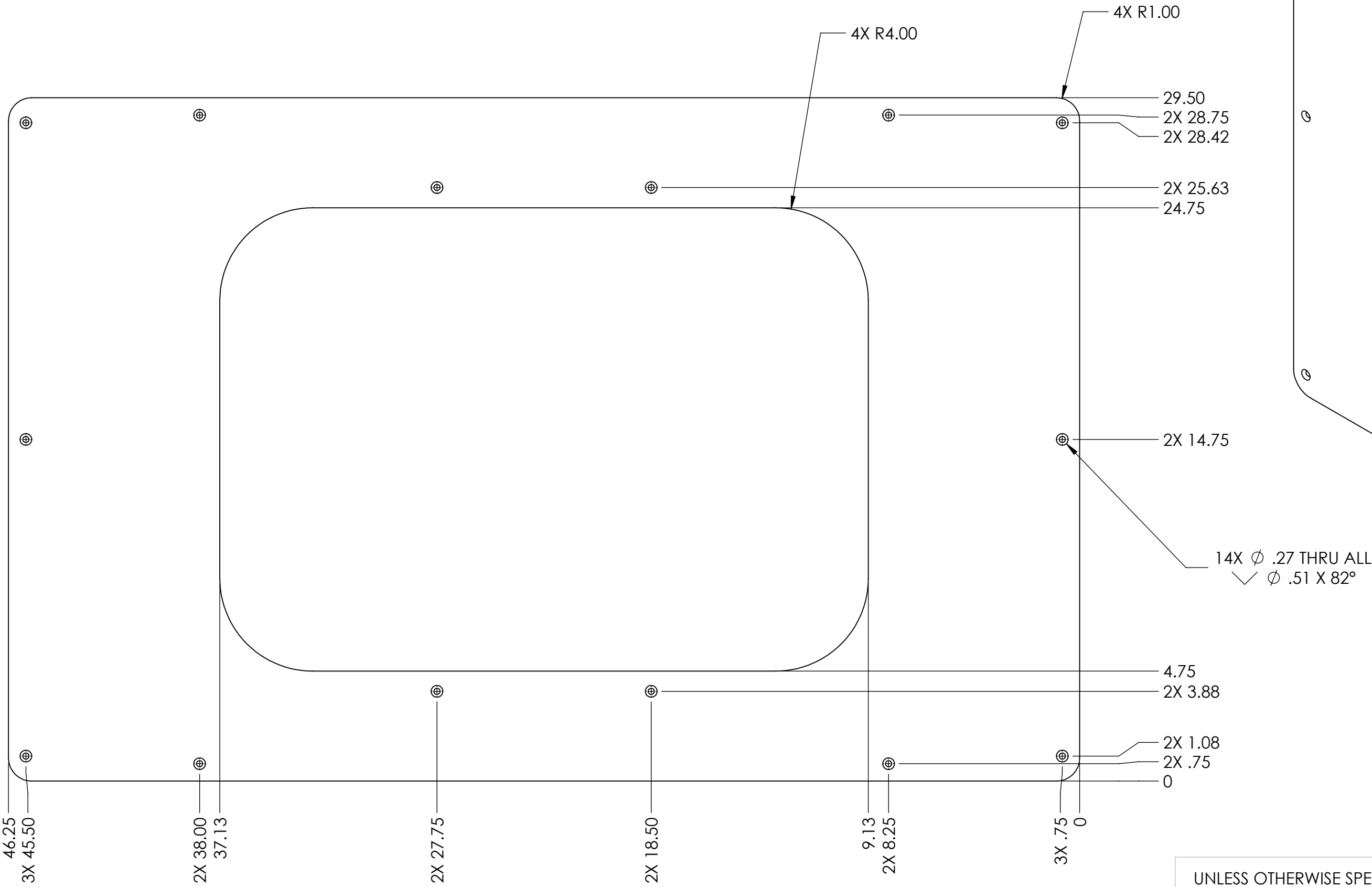
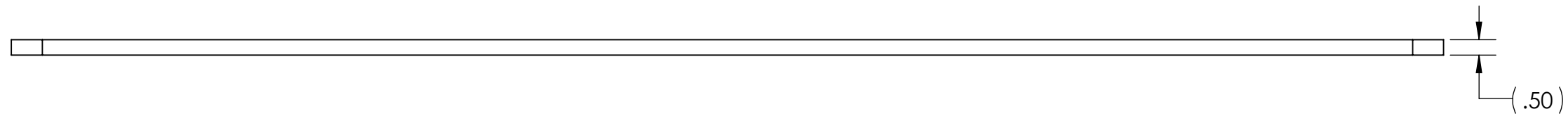
C

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UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ±1/16  
 ANGULAR: MACH ±1° BEND ±1°  
 TWO PLACE DECIMAL ±.01  
 THREE PLACE DECIMAL ±.005

**MATERIAL/FINISH:**  
 1/2" HDPE, Black Matte  
 Finish

DO NOT SCALE DRAWING

VEND	NAME	DATE
DRAWN	JO	9/30/2024
<b>PROPRIETARY AND CONFIDENTIAL</b>		
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> ®. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> ® IS PROHIBITED.		
<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		

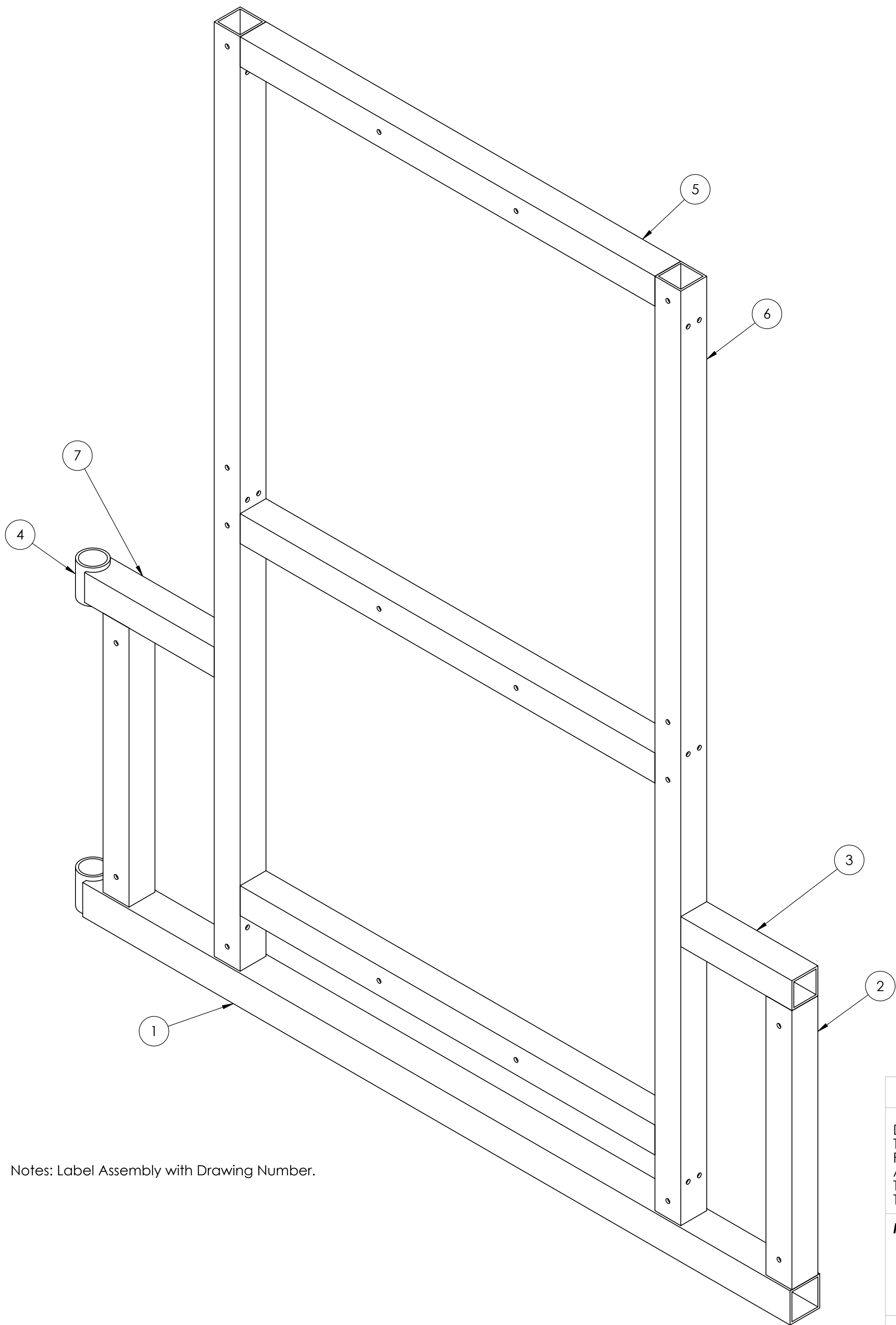
 		
TITLE: <b>Processor Opening</b>		
SIZE	DWG. NO.	REV
<b>C</b>	GE-25119	
SCALE: 23:100		SHEET 1 OF 1

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Notes: Label Assembly with Drawing Number.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25120-01	Floor Beam	1
2	GE-25120-02	Short Height Beam	2
3	GE-25120-03	Female Connector Tube	1
4	GE-25120-04	Pin Connector Tube	2
5	GE-25120-05	Crossbar	3
6	GE-25120-06	Full Height Beam	2
7	GE-25120-07	Pin Connector Horizontal	1

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ±1/16  
 ANGULAR: MACH ±1° BEND ±1°  
 TWO PLACE DECIMAL ±.02  
 THREE PLACE DECIMAL ±.015

**MATERIAL/FINISH:**

DO NOT SCALE DRAWING

WELD	NAME	DATE
DRAWN	JO	10/1/2024

**PROPRIETARY AND CONFIDENTIAL**

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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.

**FIRST ROBOTICS COMPETITION** **SOLIDWORKS** Modeling Solutions Partner

TITLE: **Processor Weldment**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25120	

SCALE: 1:4 SHEET 1 OF 3

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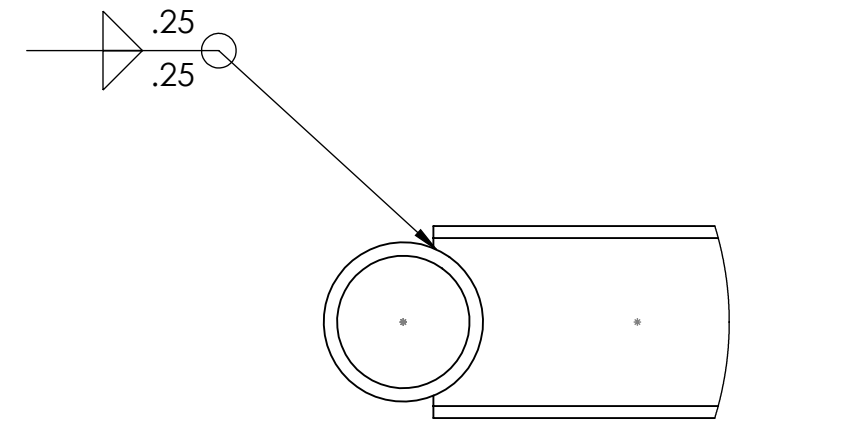
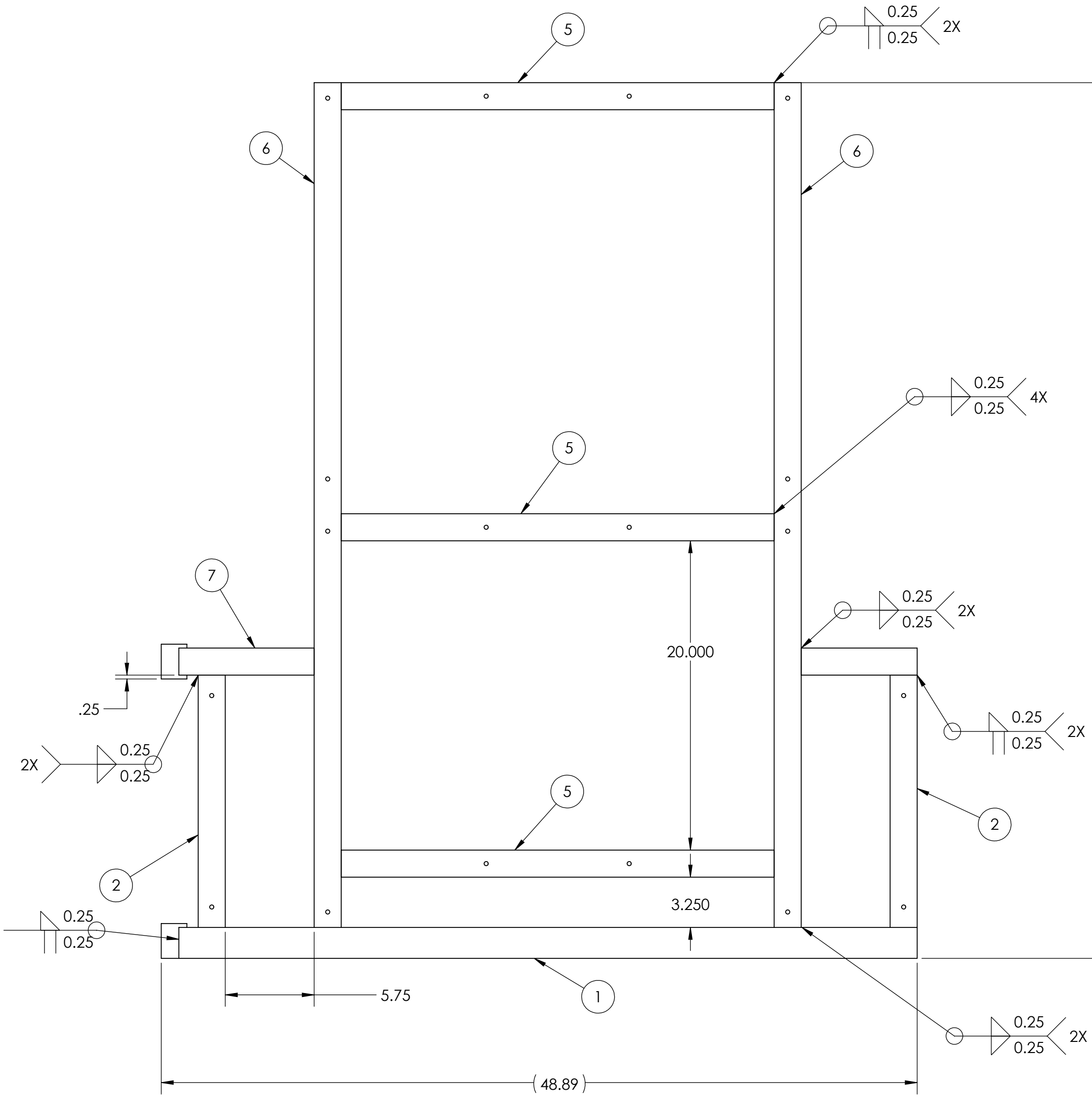
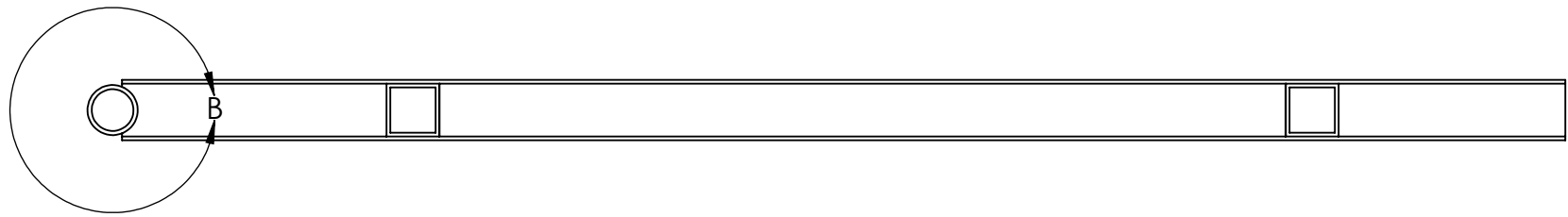
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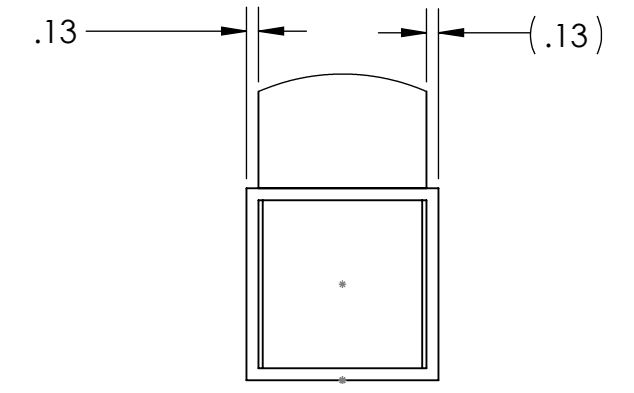
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DETAIL B  
SCALE 1 : 2



DETAIL A  
SCALE 1 : 2

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .02$ THREE PLACE DECIMAL $\pm .015$	WELD	NAME	DATE	 
	DRAWN	JO	10/1/2024	
<b>MATERIAL/FINISH:</b>	<b>PROPRIETARY AND CONFIDENTIAL</b>			TITLE:
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.			<b>Processor Weldment</b>
<b>COMMENTS:</b>	REMOVE ALL BURRS AND SHARP EDGES.			SIZE
				DWG. NO.
DO NOT SCALE DRAWING				<b>C</b> GE-25120
				REV
				SCALE: 1:6
				SHEET 2 OF 3

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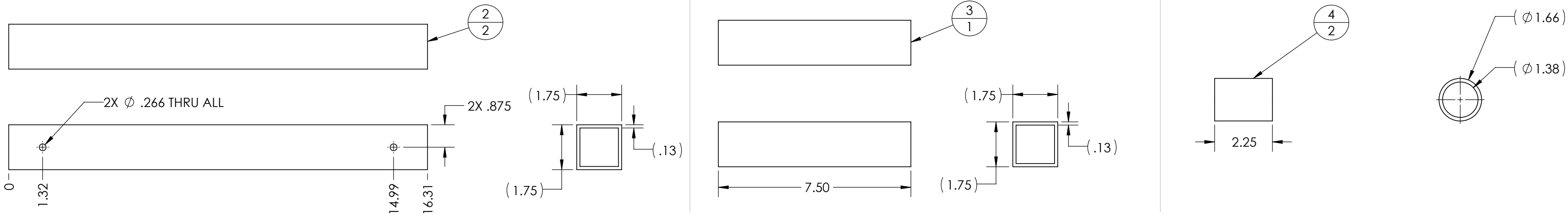
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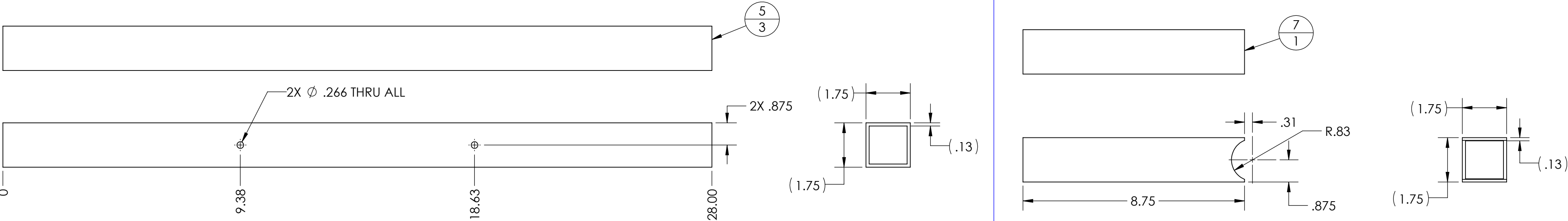
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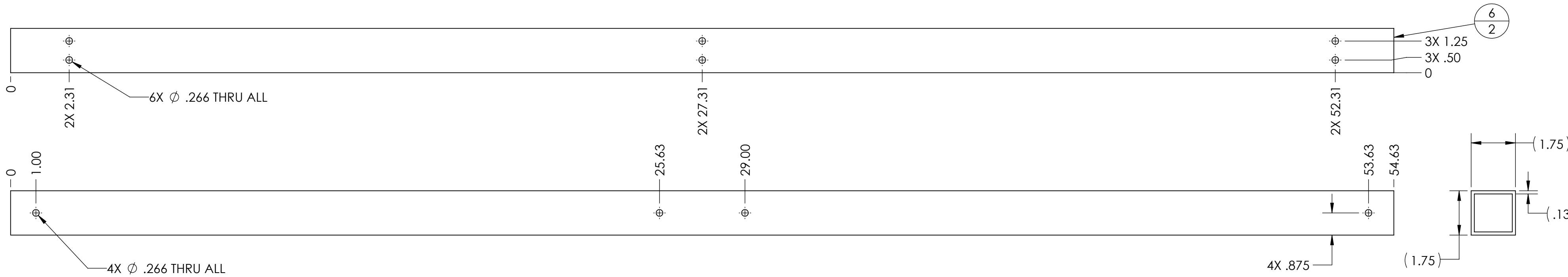
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UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .005$  <b>MATERIAL/FINISH:</b> 2" x 1/8" Square Box Tube, 1.75" x 1/8" Square Box Tube and 1.25" Schedule 40 Round Tube - All 6061 Aluminum  DO NOT SCALE DRAWING	VEND	NAME	DATE	 	
	DRAWN	JO	10/1/2024		
	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.				TITLE:
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.				Processor Weldment
SIZE		DWG. NO.	REV		
C		GE-25120			
SCALE: 1:3		SHEET 3 OF 3			

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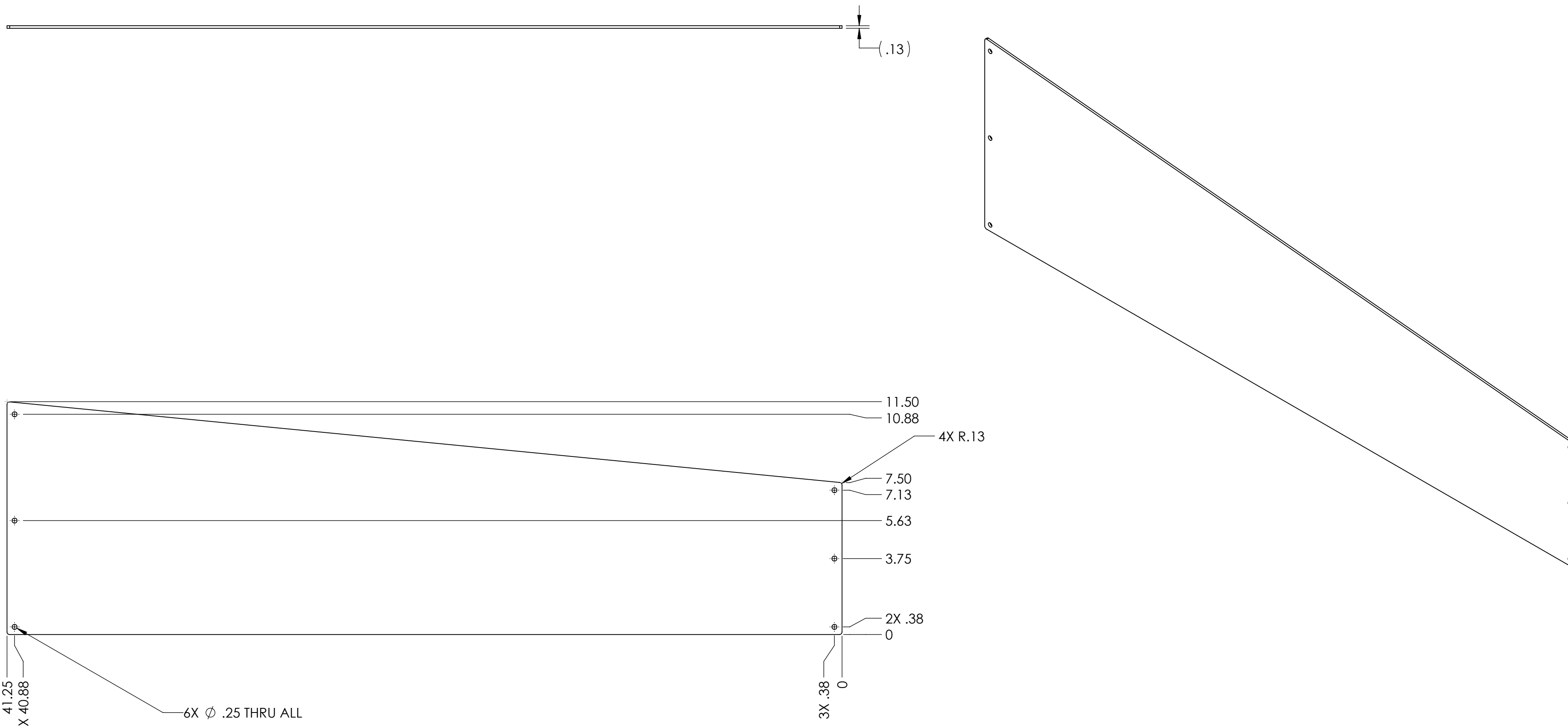
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UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .01 THREE PLACE DECIMAL ± .005  <b>MATERIAL/FINISH:</b> 1/8" Polycarbonate, Clear  <b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.  DO NOT SCALE DRAWING	VEND	NAME	DATE	 	
	DRAWN	JO	9/30/2024		
	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			TITLE:	<h1>Corral Side</h1>
				SIZE	
			<b>C</b>	GE-25121	
			SCALE: 1:4	SHEET 1 OF 1	



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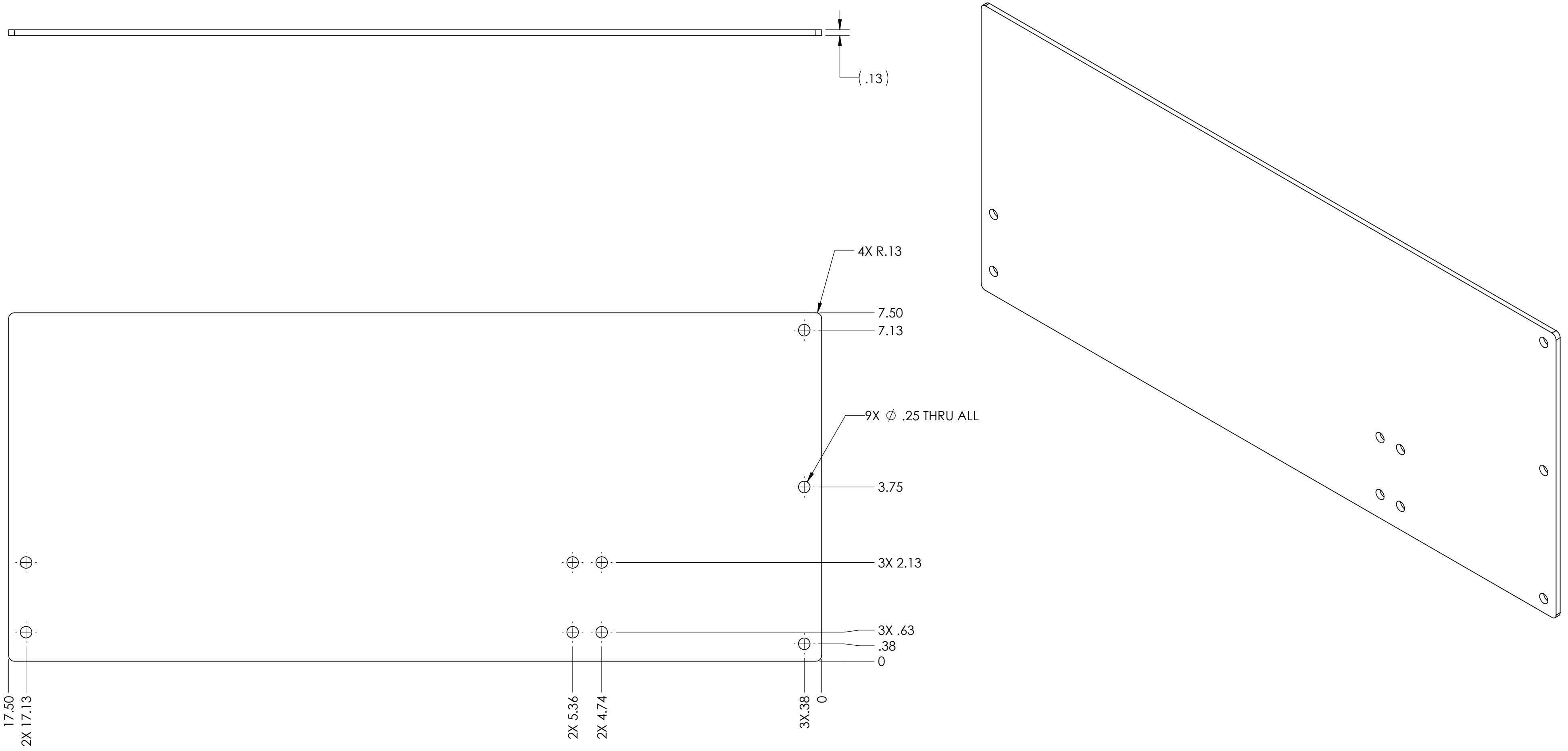
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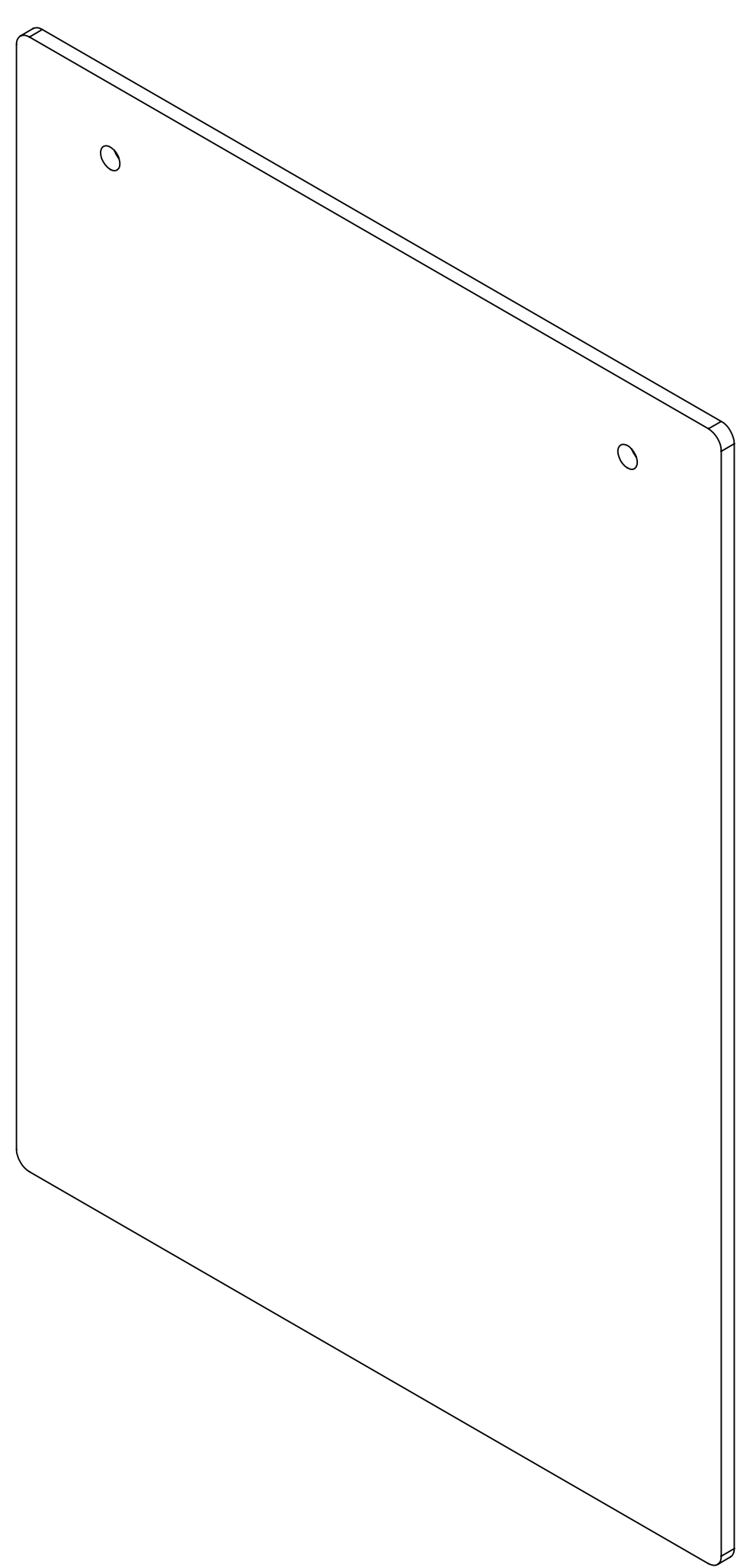
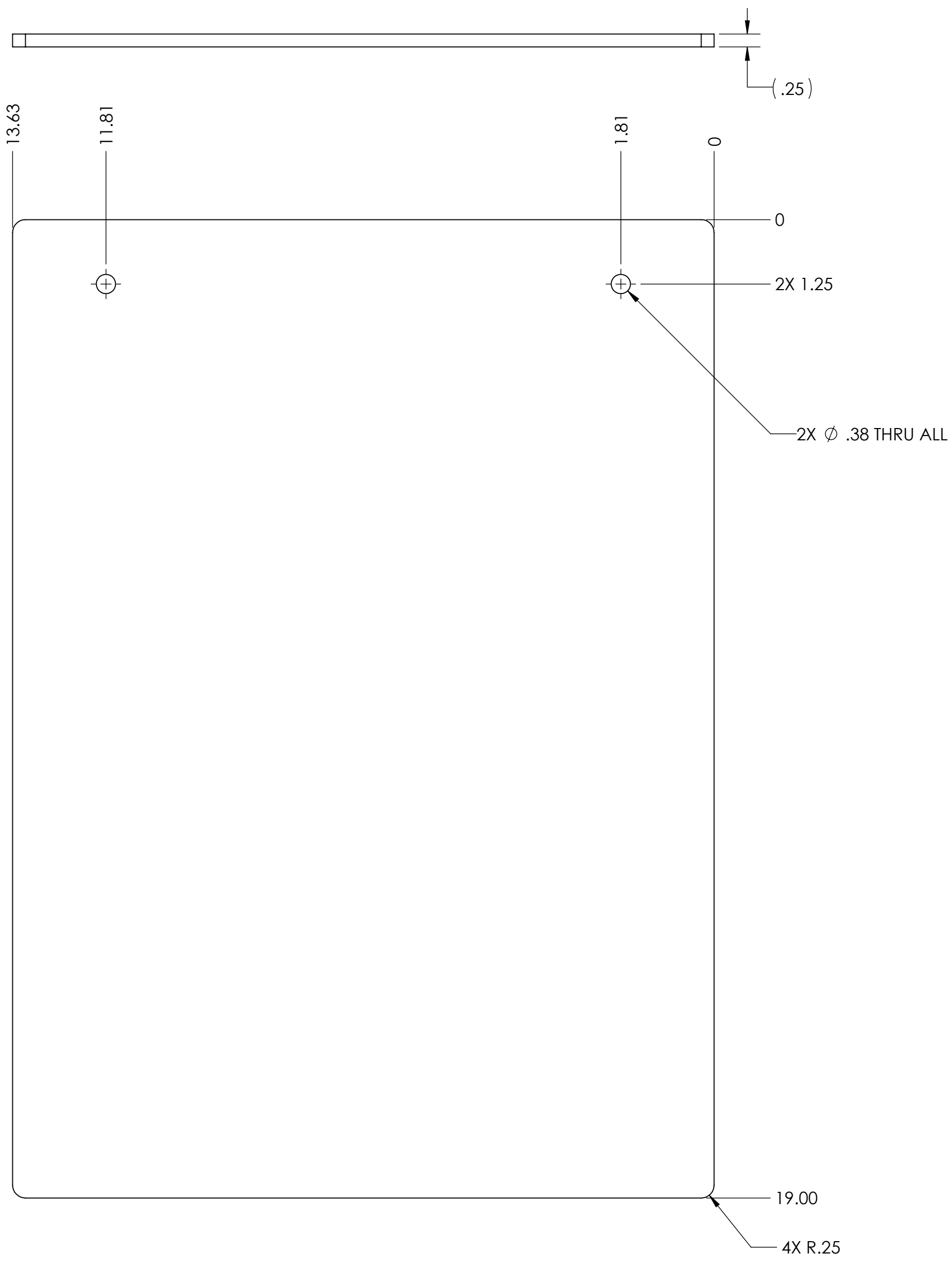
B



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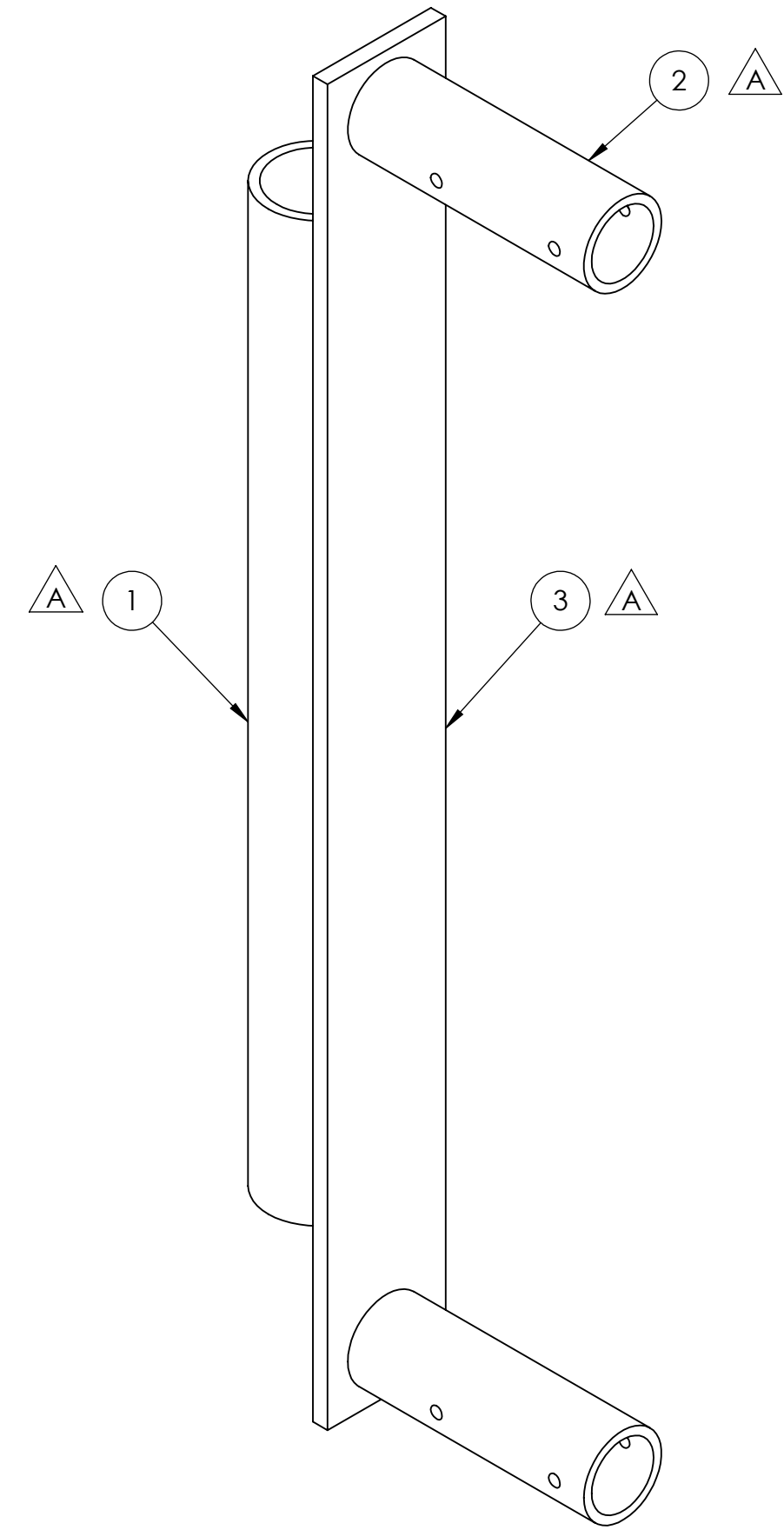
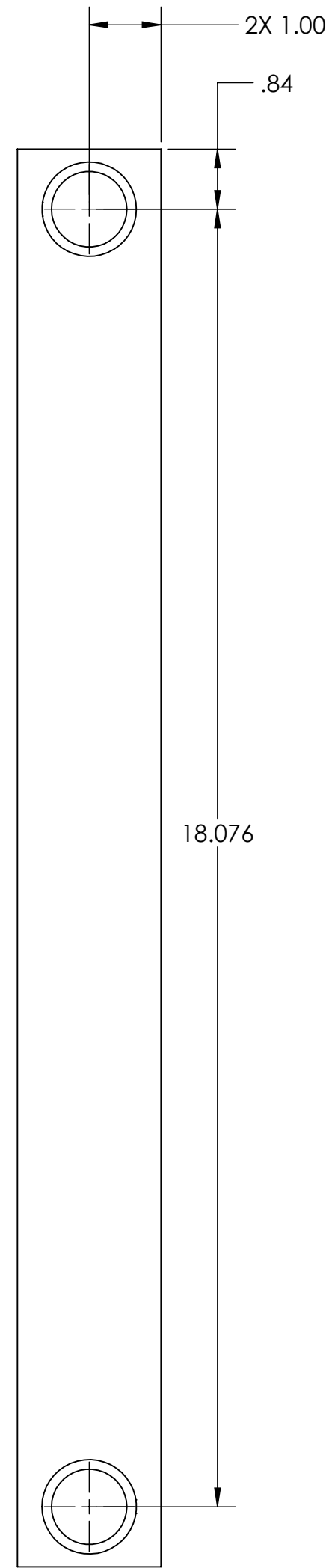
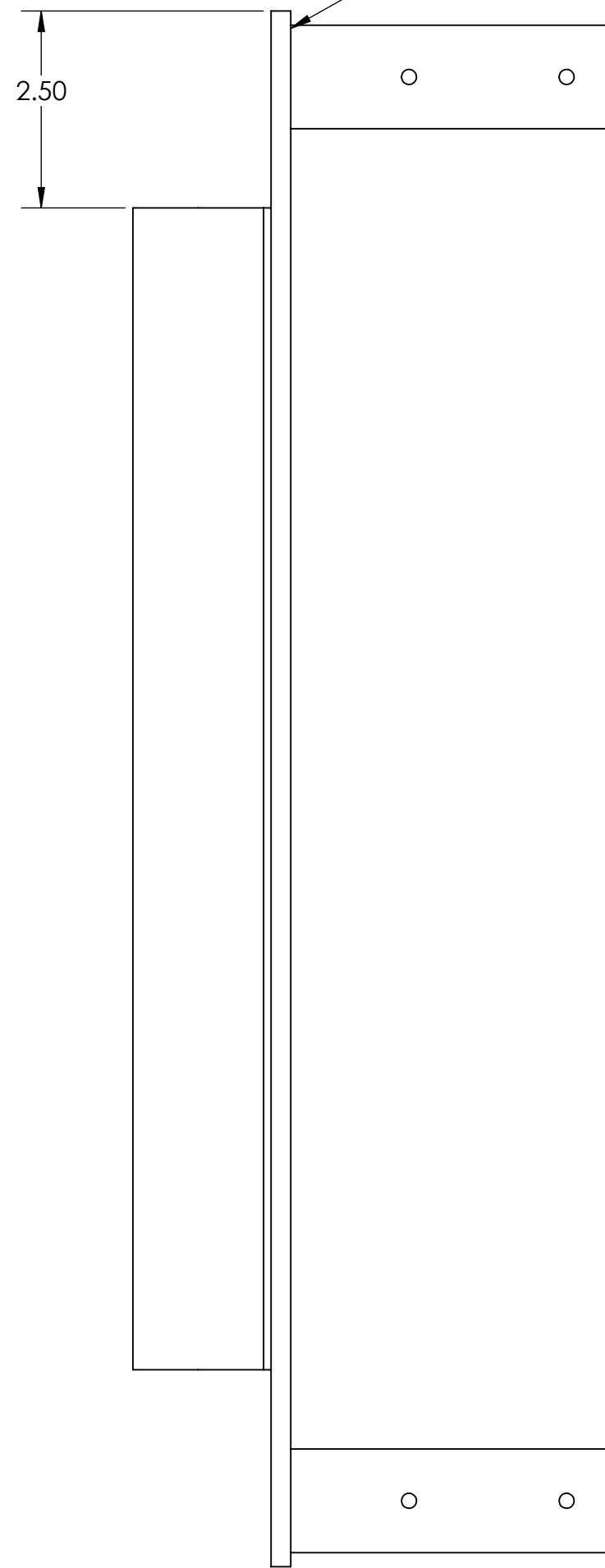
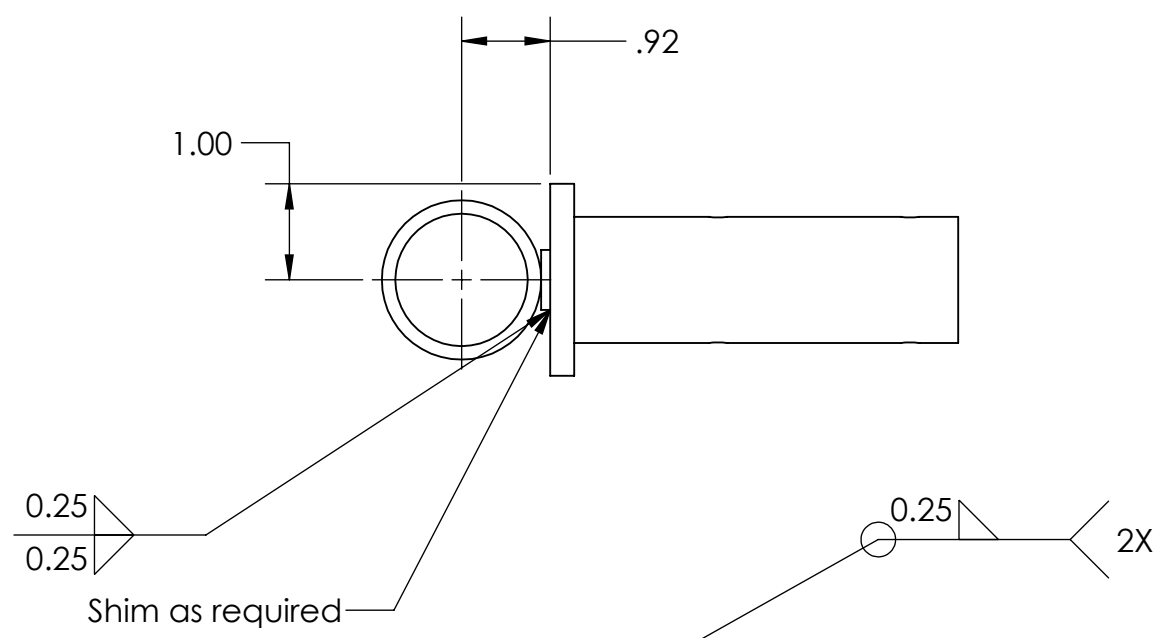


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .01 THREE PLACE DECIMAL ± .005  <b>MATERIAL/FINISH:</b> 1/8" Polycarbonate, Clear  <b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.  DO NOT SCALE DRAWING	VEND	NAME	DATE	 
	DRAWN	JO	9/30/2024	
<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.				TITLE:
				Corral Back
SIZE		DWG. NO.	REV	
C		GE-25122		
SCALE: 3:5		SHEET 1 OF 1		



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .01 THREE PLACE DECIMAL ± .005  <b>MATERIAL/FINISH:</b> 1/4" Polycarbonate, Clear  DO NOT SCALE DRAWING	VEND	NAME	DATE	 
	DRAWN	JO	9/30/2024	
	<b>PROPRIETARY AND CONFIDENTIAL</b>			TITLE:
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			Extra Wall Panel Briweld
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			SIZE DWG. NO. REV <b>C</b> GE-25123
	SCALE: 1:2		SHEET 1 OF 1	

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
A2, C1, C2, D1	A	Added missing BOM table and balloons	10/7/2024	JO



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FE-00018-01	1 1/4" Schedule 40 6061-T6 Aluminum Pipe	1
2	FE-00018-02	1" Schedule 40 6061-T6 Aluminum Pipe	2
3	GE-25126	Thinner Connector Plate	1

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL  $\pm 1/16$   
 ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
 TWO PLACE DECIMAL  $\pm .02$   
 THREE PLACE DECIMAL  $\pm .015$

**MATERIAL/FINISH:**

DO NOT SCALE DRAWING

WELD NAME DATE  
 DRAWN JO 10/3/2024

**PROPRIETARY AND CONFIDENTIAL**  
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF **FIRST**. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF **FIRST** IS PROHIBITED.

**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.

**FIRST ROBOTICS COMPETITION** **SOLIDWORKS** Modeling Solutions Partner

TITLE: **Processor Pin Connector - Briweld Field**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25124	<b>A</b>

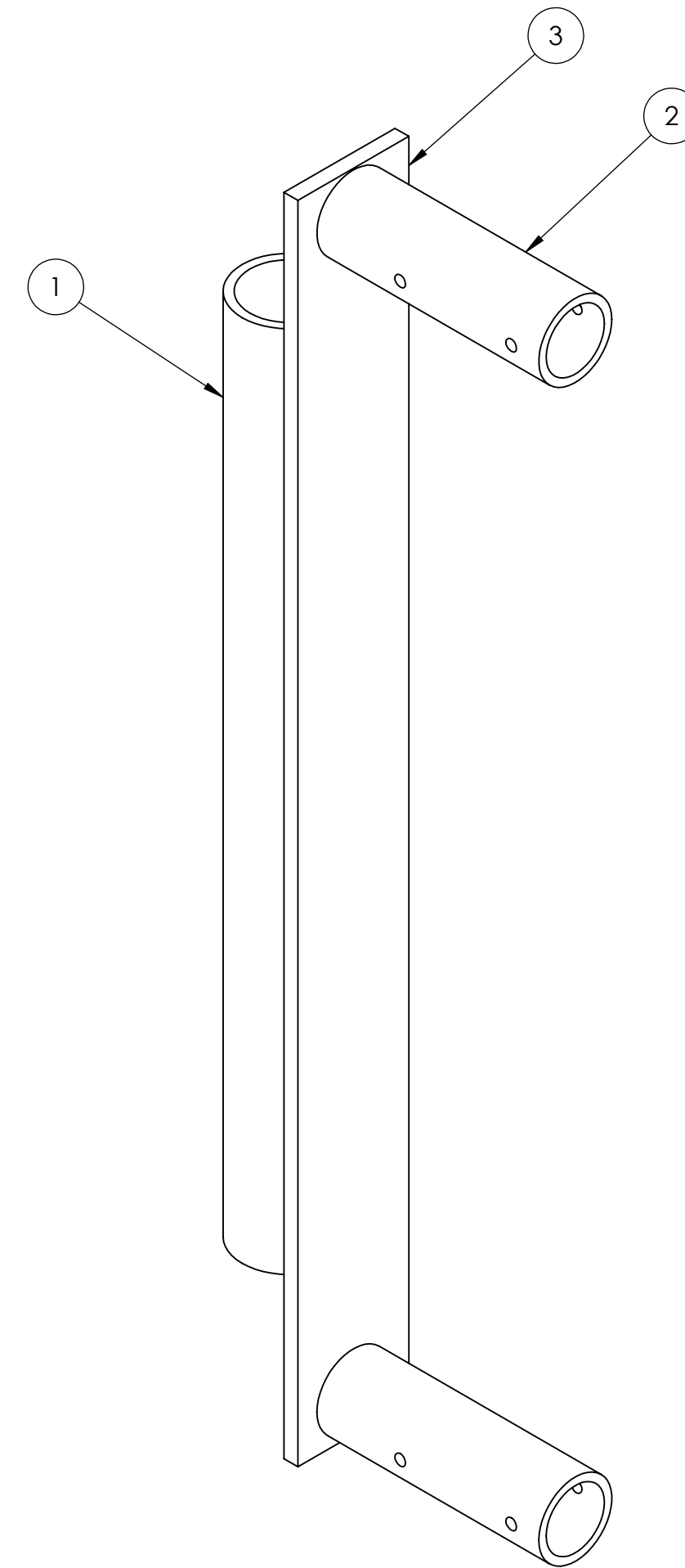
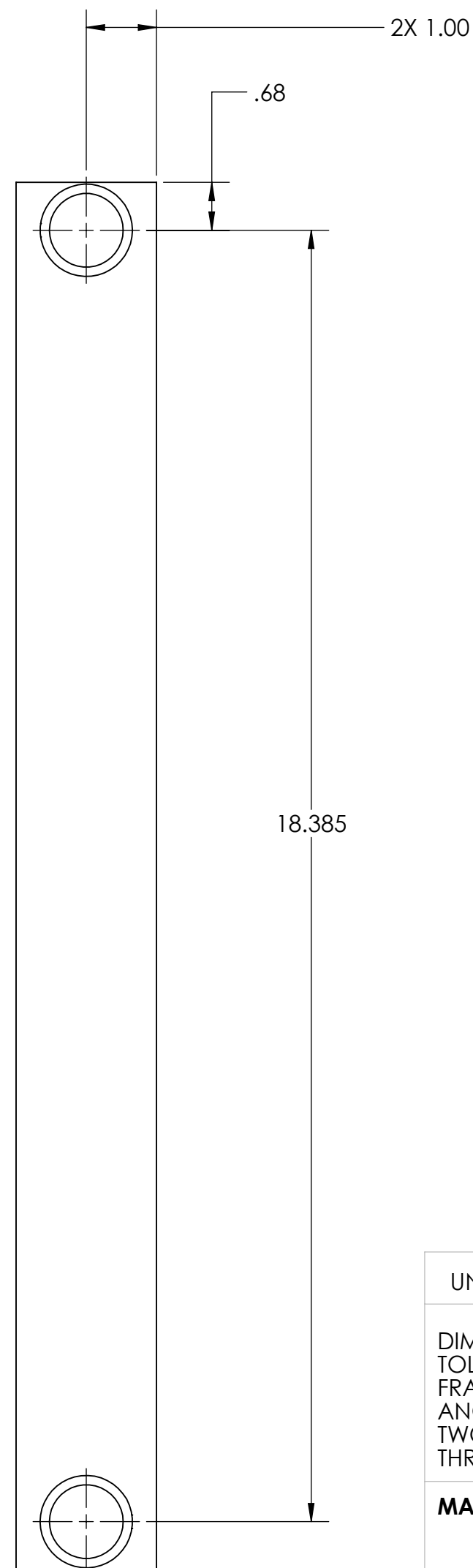
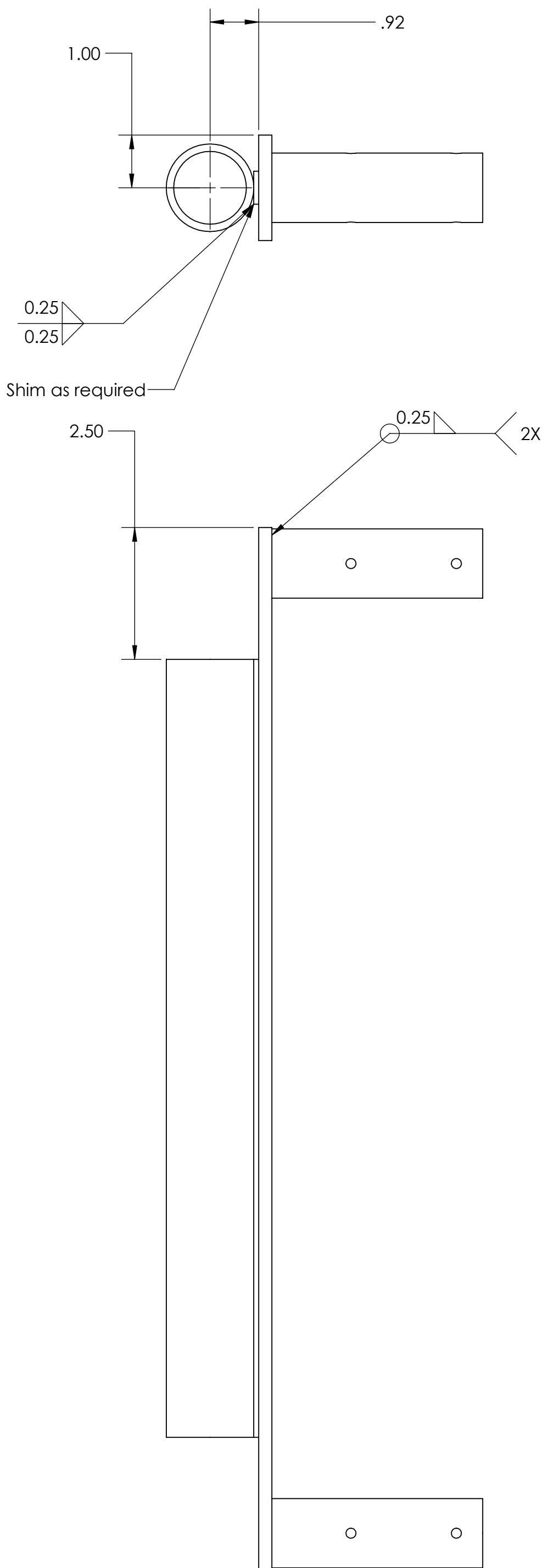
SCALE: 1:2 SHEET 1 OF 1

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FE-00018-01	1 1/4" Schedule 40 6061-T6 Aluminum Pipe	1
2	FE-00018-02	1" Schedule 40 6061-T6 Aluminum Pipe	2
3	GE-25126	Thinner Connector Plate	1

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ± 1/16  
 ANGULAR: MACH ± 1° BEND ± 1°  
 TWO PLACE DECIMAL ± .02  
 THREE PLACE DECIMAL ± .015

**MATERIAL/FINISH:**

DO NOT SCALE DRAWING

WELD	NAME	DATE
DRAWN	JO	10/3/2024

**PROPRIETARY AND CONFIDENTIAL**

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF **FIRST®**. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF **FIRST®** IS PROHIBITED.

**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.

**FIRST ROBOTICS COMPETITION** **SOLIDWORKS** Modeling Solutions Partner

TITLE: **Processor Pin Connector - AndyMark Field**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25125	

SCALE: 1:2 SHEET 1 OF 1

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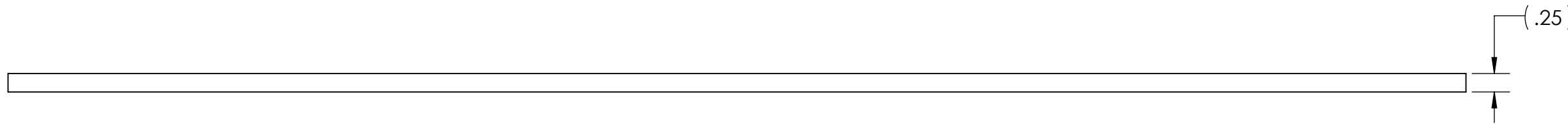
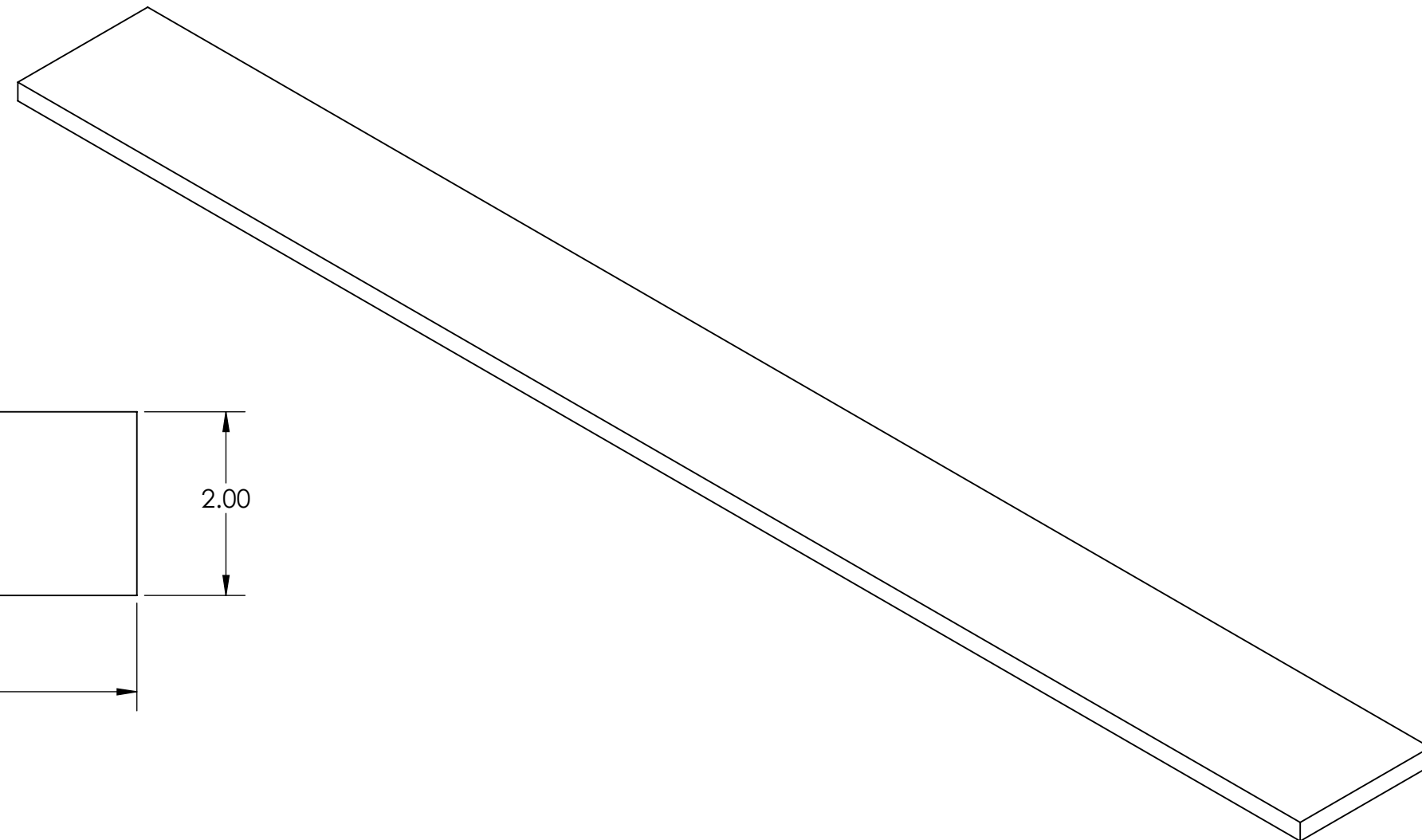
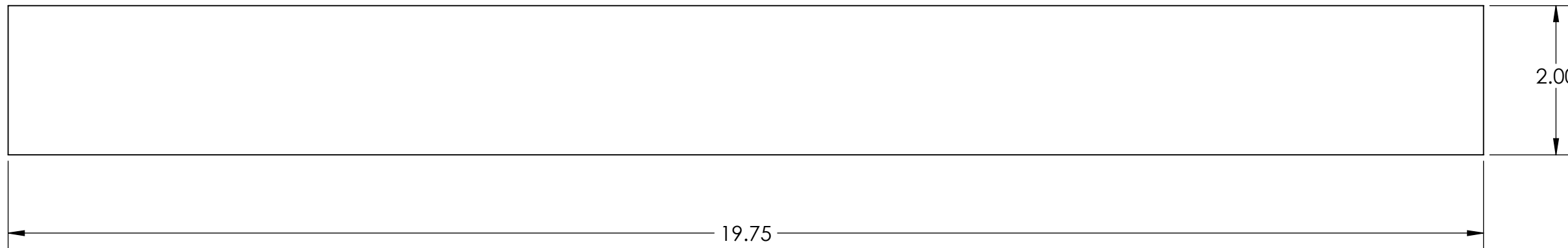
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UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL  $\pm 1/16$   
 ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
 TWO PLACE DECIMAL  $\pm .01$   
 THREE PLACE DECIMAL  $\pm .005$

**MATERIAL/FINISH:**  
 1/4" 6061 Aluminum Plate

DO NOT SCALE DRAWING

VEND	NAME	DATE
DRAWN	JO	10/3/2024

**PROPRIETARY AND CONFIDENTIAL**  
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF **FIRST**. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF **FIRST** IS PROHIBITED.

**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.

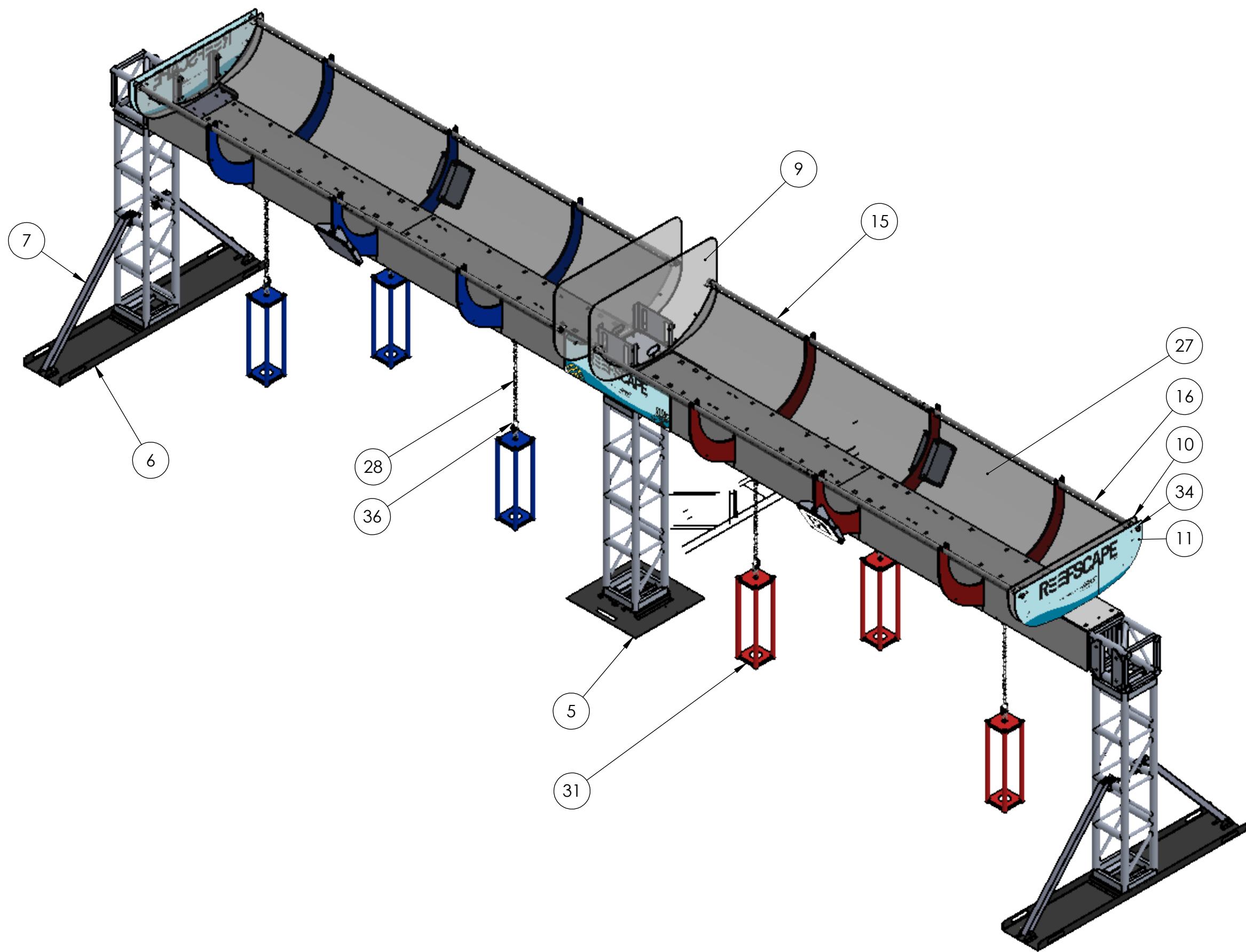


TITLE: **Thinner Connector Plate**



SIZE	DWG. NO.	REV
<b>C</b>	GE-25126	

SCALE: 3:5 SHEET 1 OF 1





ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FE-01002	4' x 1' x 1' Square Truss	4
2	FE-01003	5' x 1' x 1' Square Truss	5
3	FE-01012	3 Way Corner Block	2
4	FE-01013	TS 1212LD-C4P, 4 Way Corner Block Light Duty Truss, Total Structures	1
5	FE-01021		1
6	GE-25203	Truss Base, Long - Sheet Metal Assembly	2
7	GE-25205	Truss Brace Assembly	4
8	GE-25206	Backboard Brace	1
9	GE-25207	Backboard	2
10	GE-25208	Inner Front	2
11	GE-25209	Outer Front w/Vinyl	2
12	GE-25211	Side Panel w/Vinyl	2
13	GE-25213	Rib, Blue	3
14	GE-25214	Rib, Red	3
15	GE-25215	Net Tube Assembly	4
16	GE-25216	Net Tube, Outer	4
17	GE-25218	Brace, Barge End	2
18	GE-25220-ID14	April Tag Assembly, Truss (ID14)	1
19	GE-25220-ID15	April Tag Assembly, Truss (ID15)	1
20	GE-25220-ID4	April Tag Assembly, Truss (ID4)	1
21	GE-25220-ID5	April Tag Assembly, Truss (ID5)	1
22	GE-25221	Top Diffuser	4
23	GE-25222	Side Diffuser 1	4
24	GE-25223	Side Diffuser 2	8
25	GE-25224	Side Diffuser 3	4
26	GE-25227	Diffuser Top, Small	2
27	GE-25228	Net	2
28	GE-25229	Cage Chain	4
29	GE-25230	Eye Nut Assembly	6
30	GE-25231-Blue	Cage Assembly, Blue	3
31	GE-25231-Red	Cage Assembly, Red	3
32	hex_.625_11_2.00	Hex Head Bolt, 5/8"-11 Thread, 2" length	56
33	hexnut_.625_11	5/8"-11 hex nut	52
34	pin_quick_ring_.25_2.3 125	Pin, Ring-Grip Quick-Release with SS Ring, 1/4" Diameter, 2.3125" Usable Length	24
35	washer_flat_.625	Flat washer for 5/8" screw	108
36	3216T41_Carabiner	Carabiner, Locking Steel, .38 thick	10
37	Configurable Bolt	1" Long 1/4-20 Hex Head Bolt	8

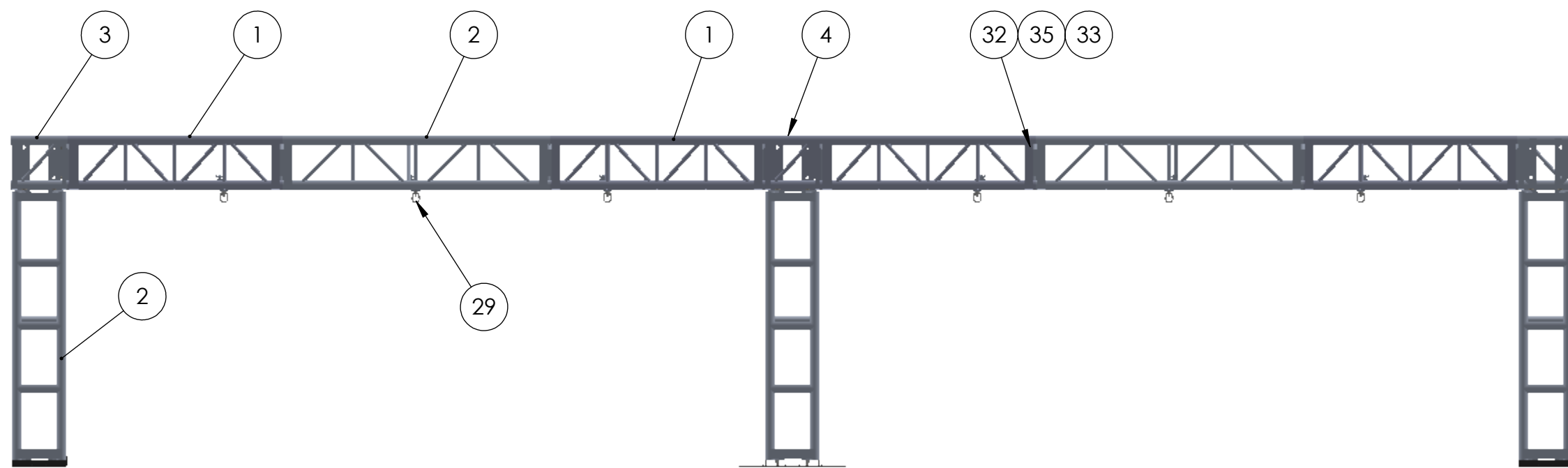
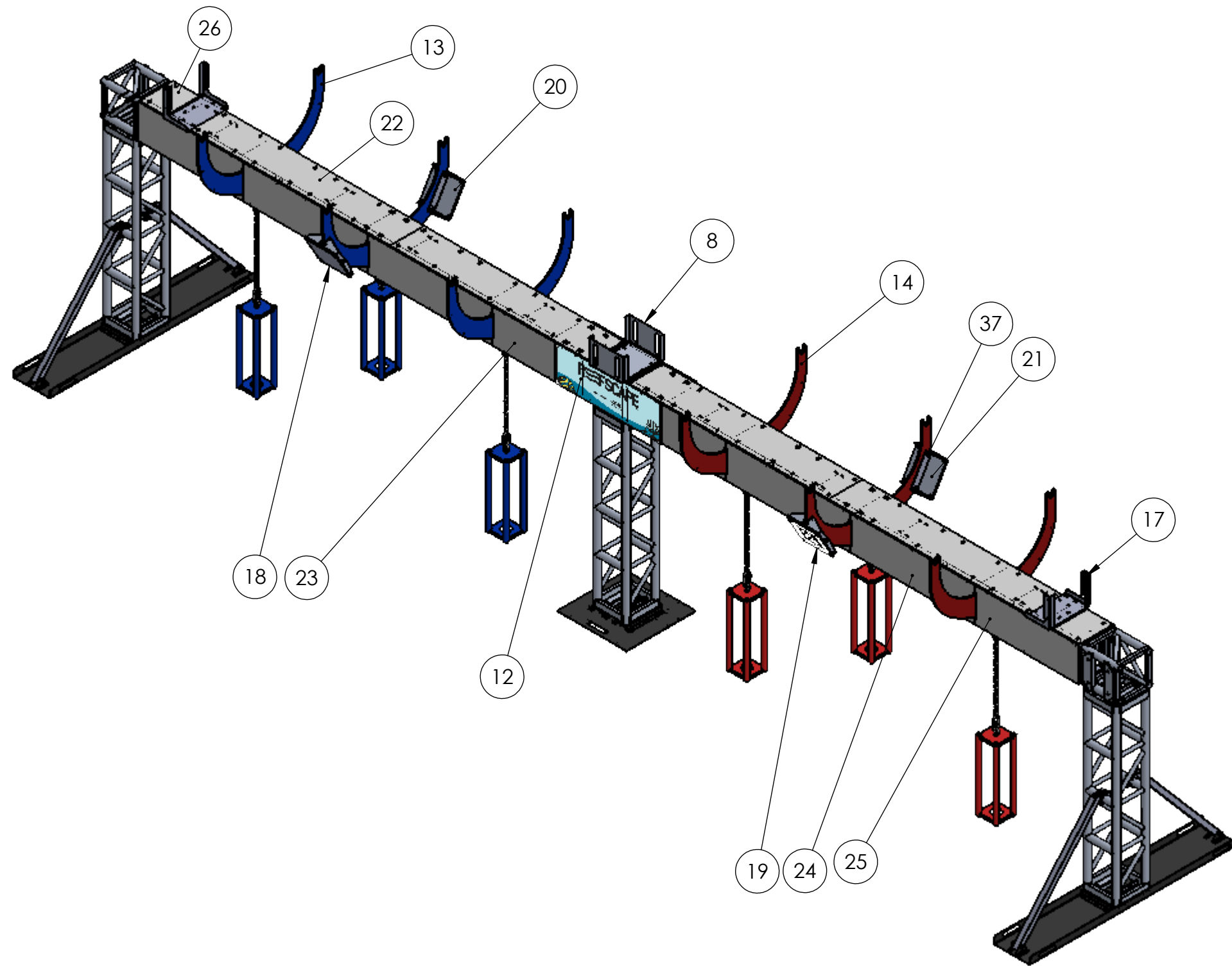
UNLESS OTHERWISE SPECIFIED:		FIELD	NAME	DATE
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/2 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .50		DRAWN	JO	12/16/2024
MATERIAL/FINISH:		<b>PROPRIETARY AND CONFIDENTIAL</b>		
DO NOT SCALE DRAWING		THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.		
		COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.		
		 		
		TITLE: <b>Barge</b>		
SIZE	DWG. NO.	REV		
<b>C</b>	<b>GE-25200</b>			
SCALE: 1:25		SHEET 1 OF 3		

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Truss Layout

UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/2 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .50  <b>MATERIAL/FINISH:</b>    <b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.  DO NOT SCALE DRAWING	FIELD	NAME	DATE
	DRAWN	JO	12/16/2024
	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.		
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		



TITLE: <b>Barge</b>		
SIZE	DWG. NO.	REV
<b>C</b>	<b>GE-25200</b>	
SCALE: 1:30		SHEET 2 OF 3

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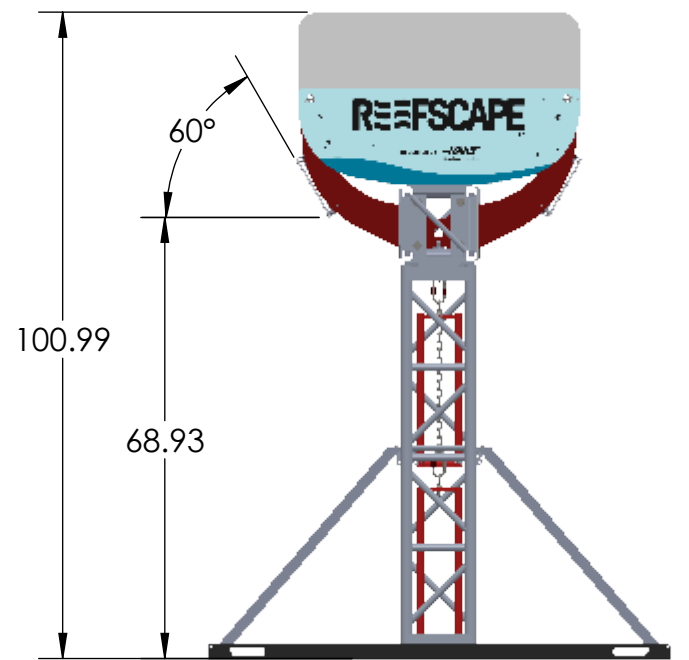
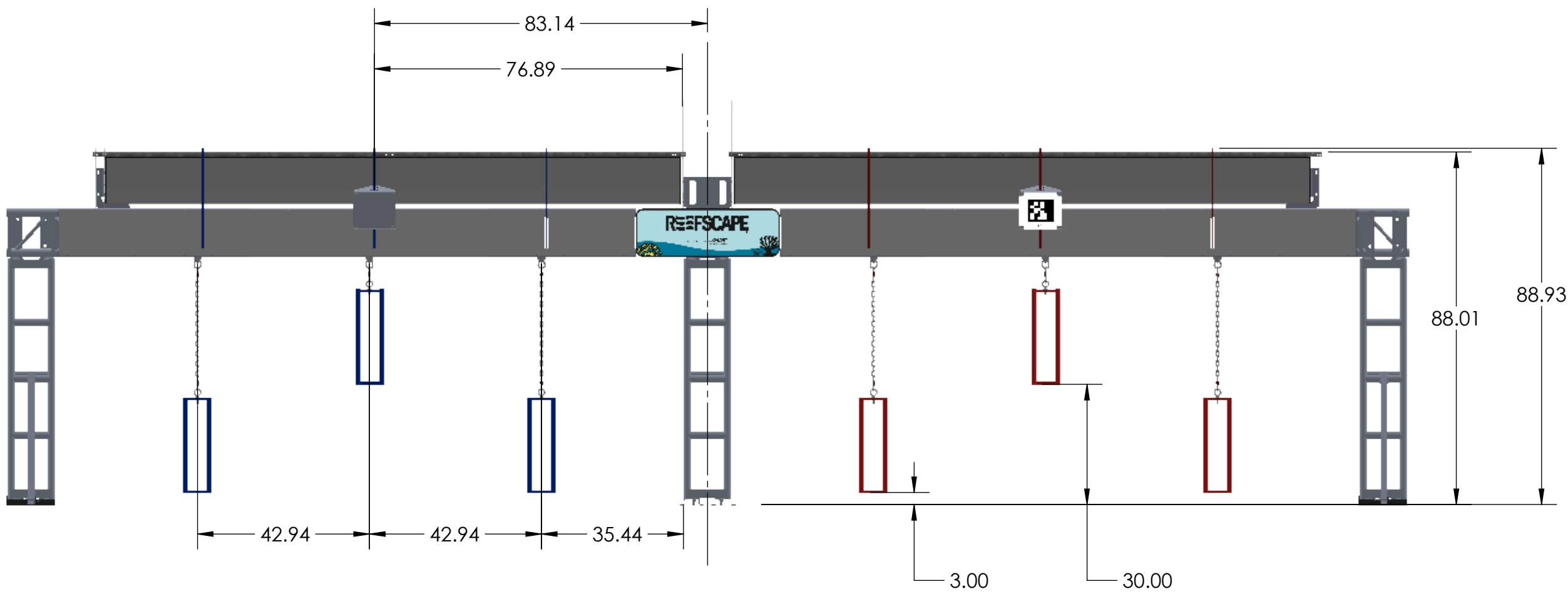
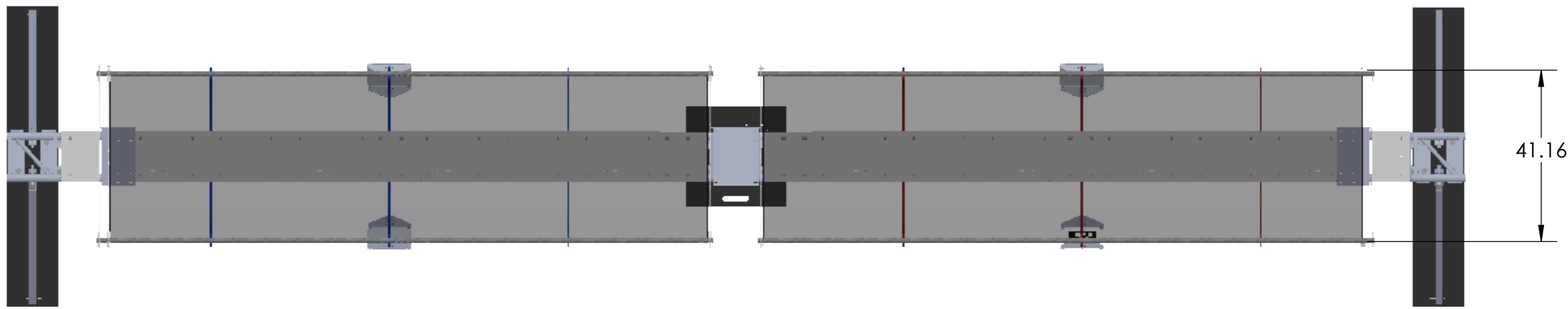
C



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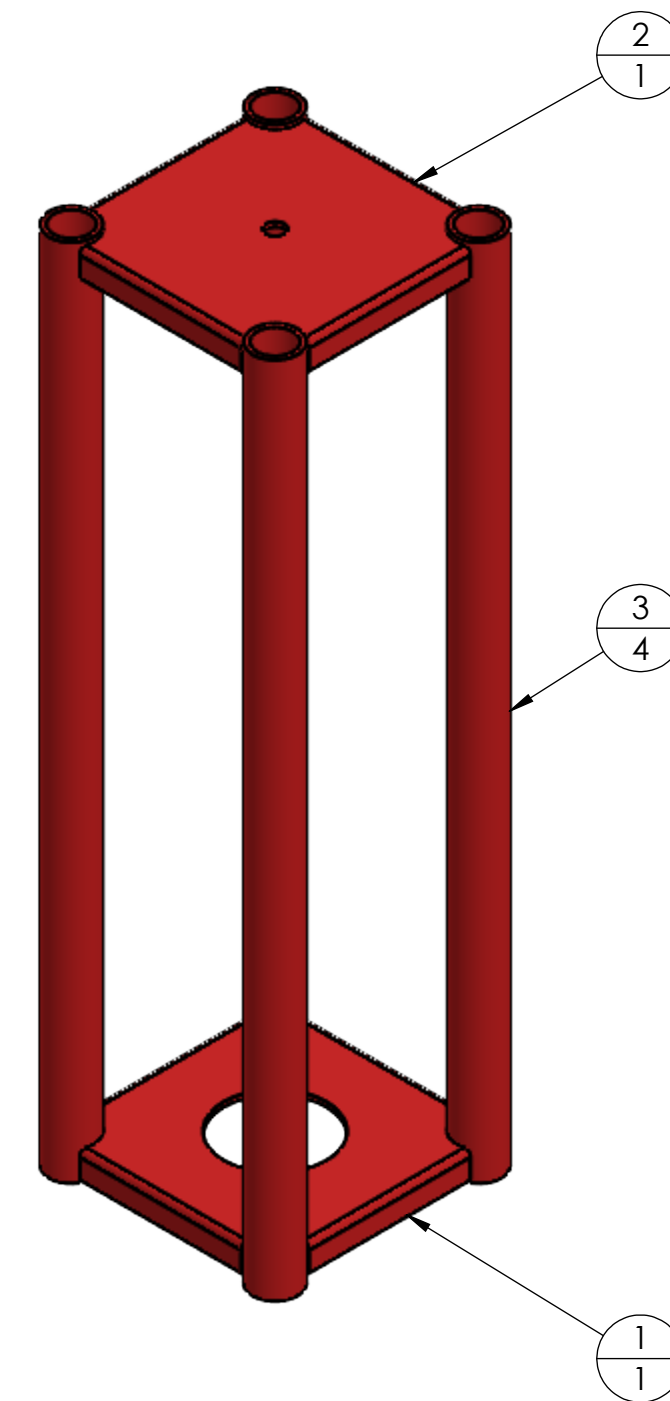
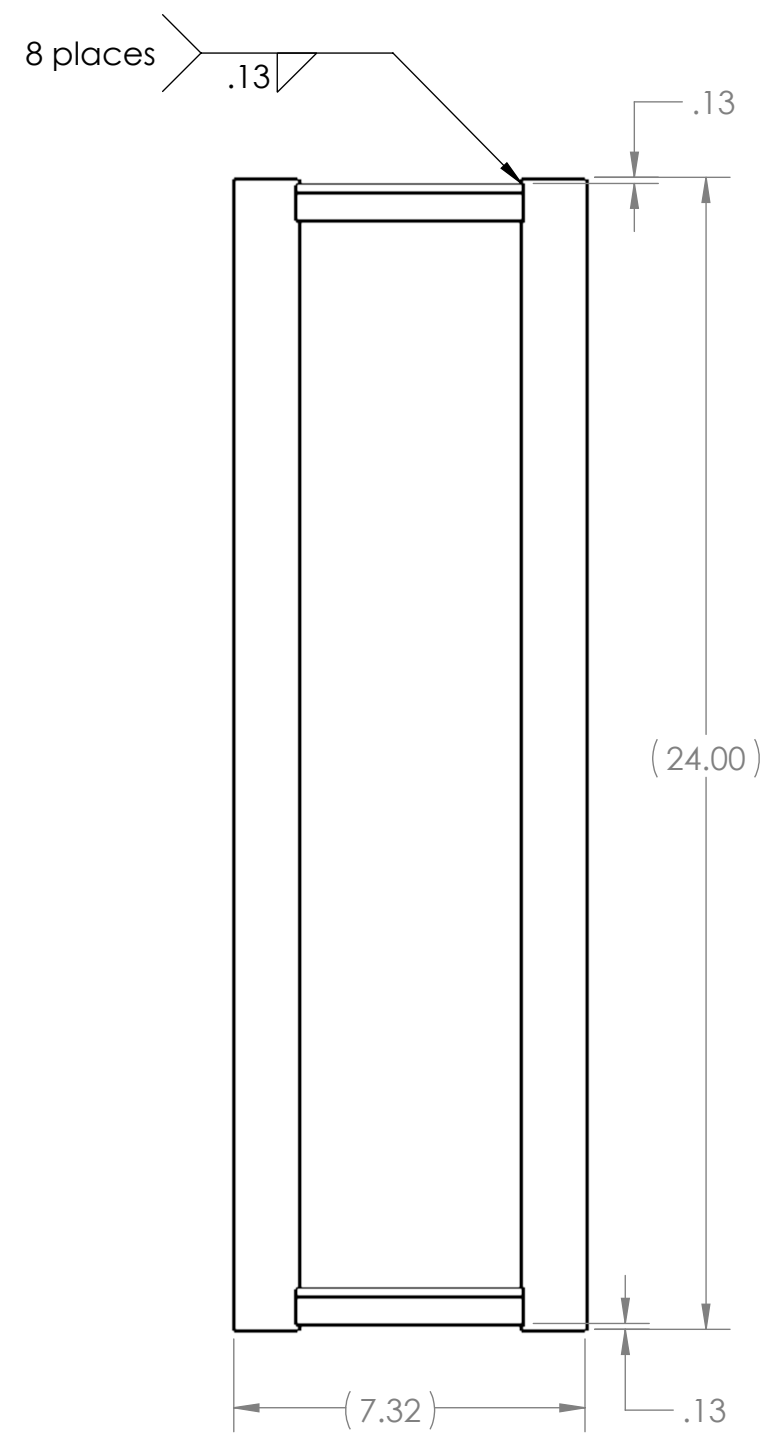
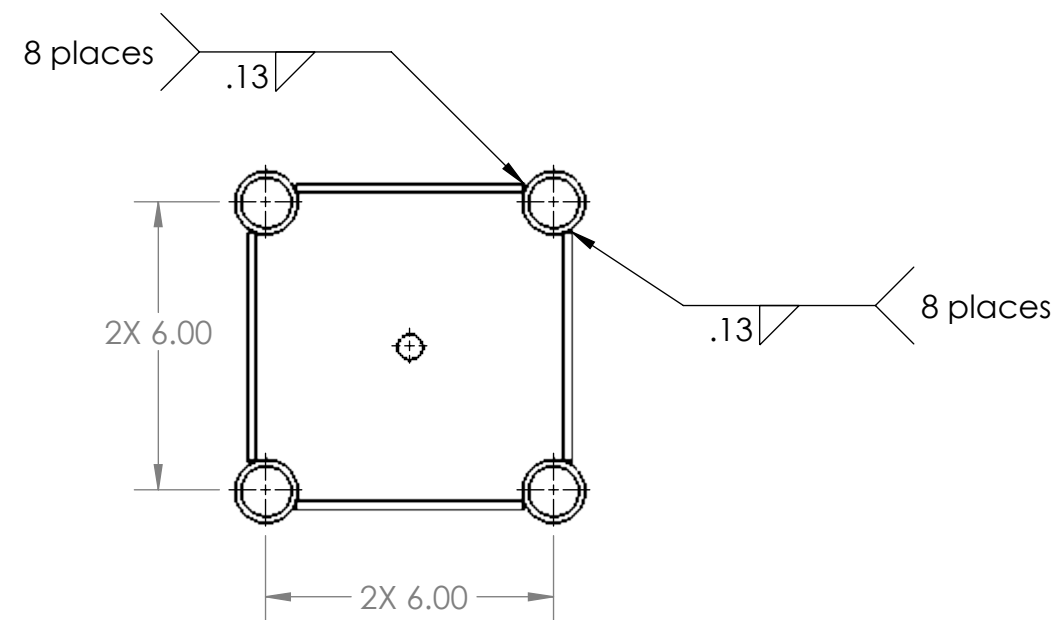
B

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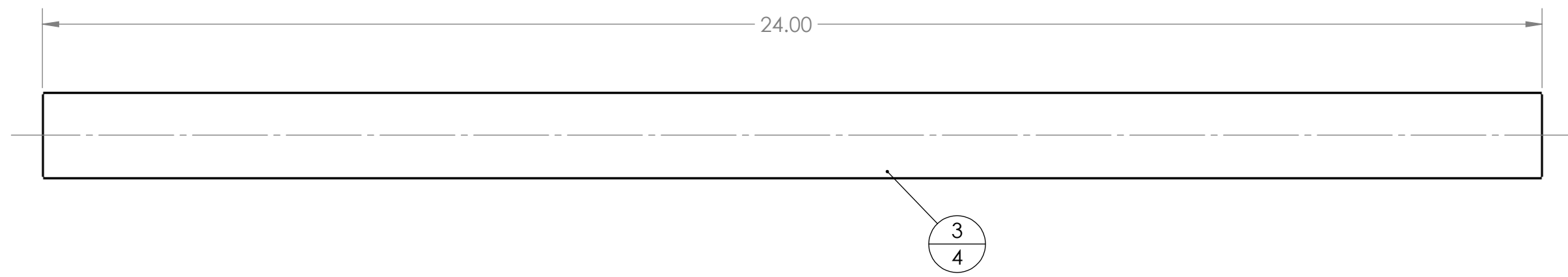
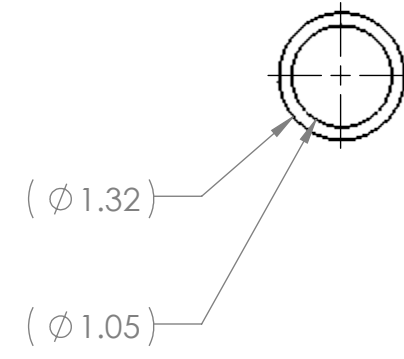
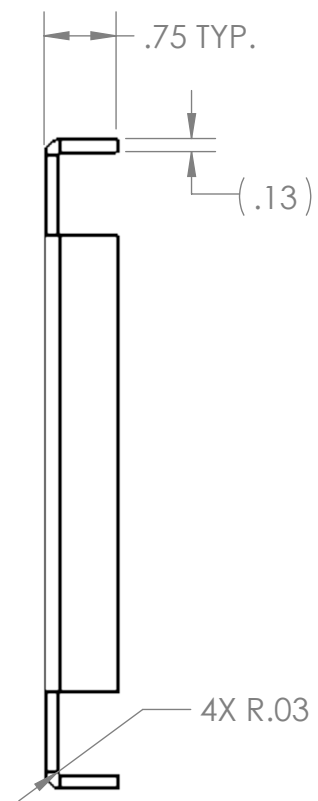
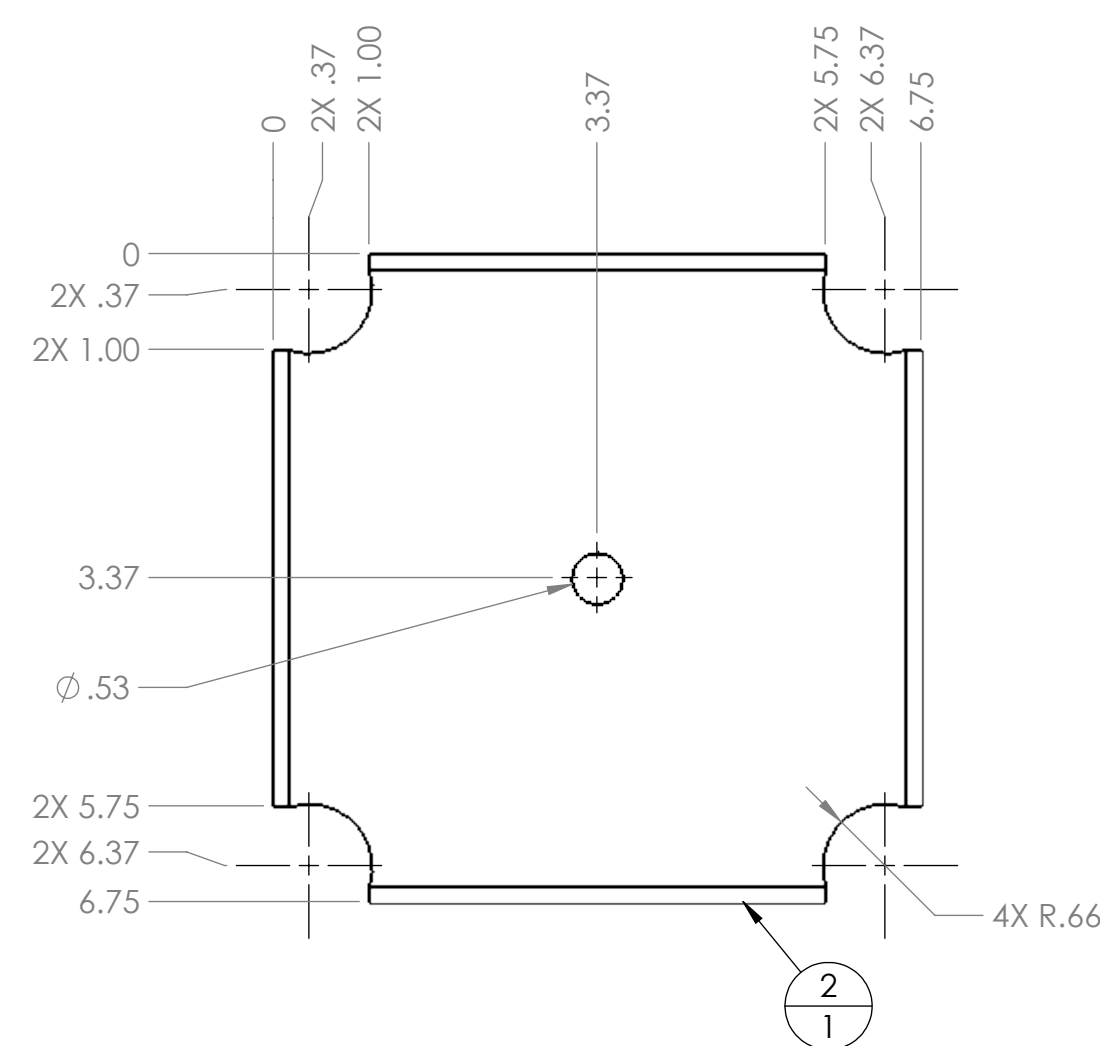
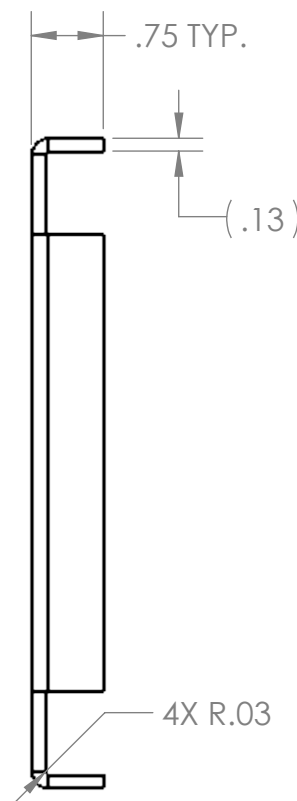
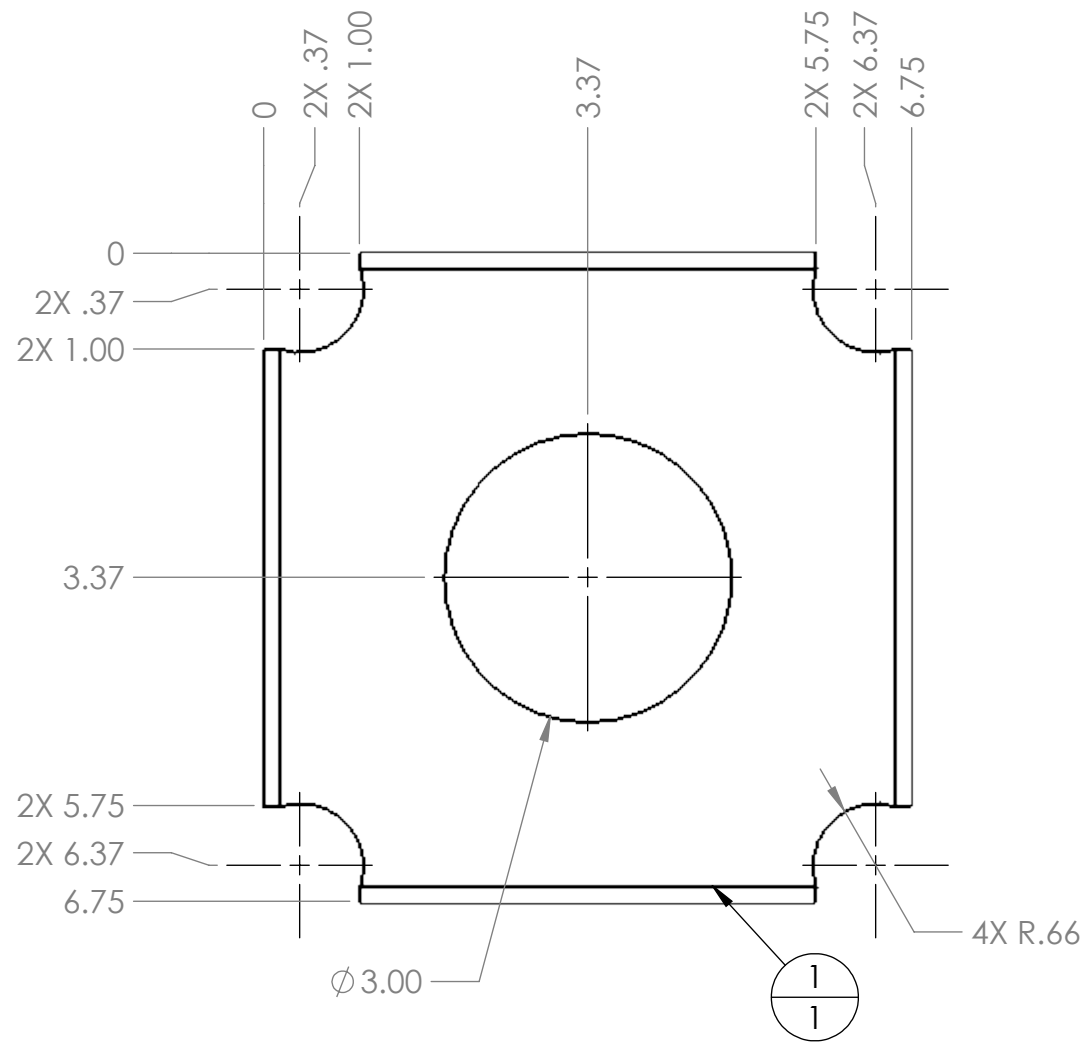




UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/2$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .50$  <b>MATERIAL/FINISH:</b>   DO NOT SCALE DRAWING	FIELD	NAME	DATE	 	
	DRAWN	JO	12/16/2024		
	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.				TITLE:
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.				Barge
SIZE		DWG. NO.	REV		
C		GE-25200			
SCALE: 1:30		SHEET 3 OF 3			



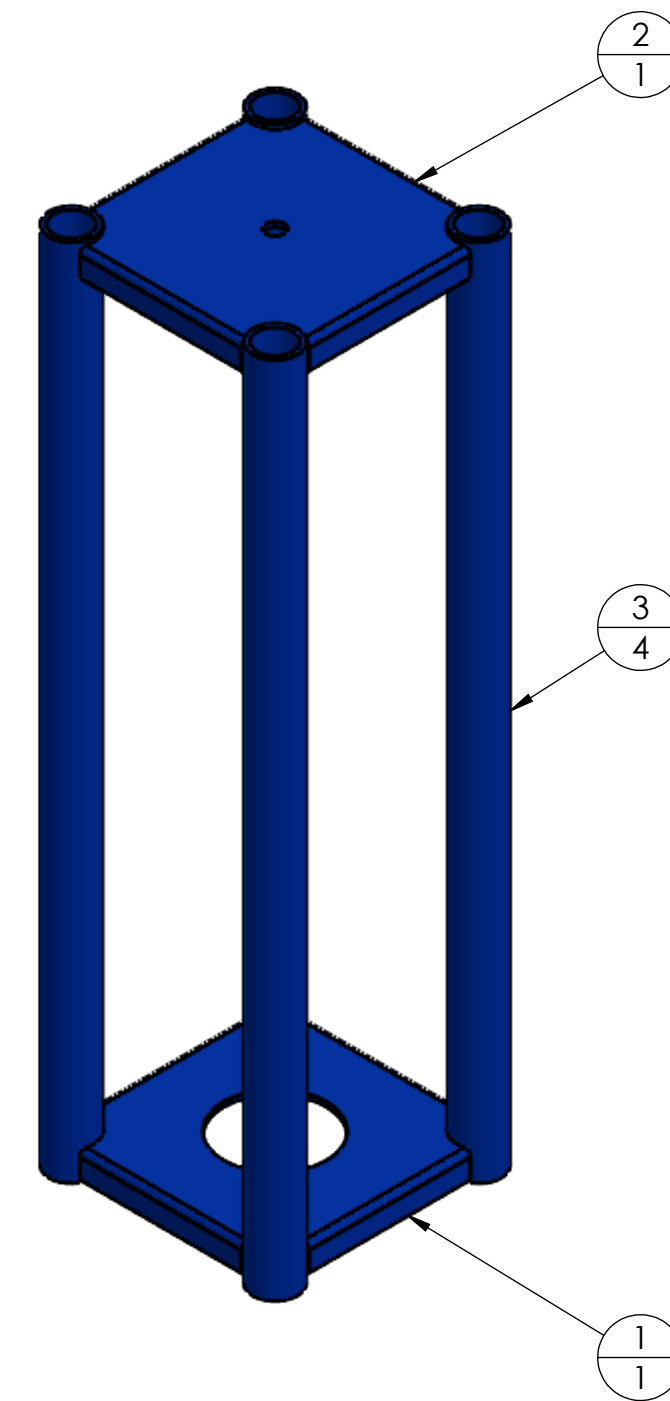
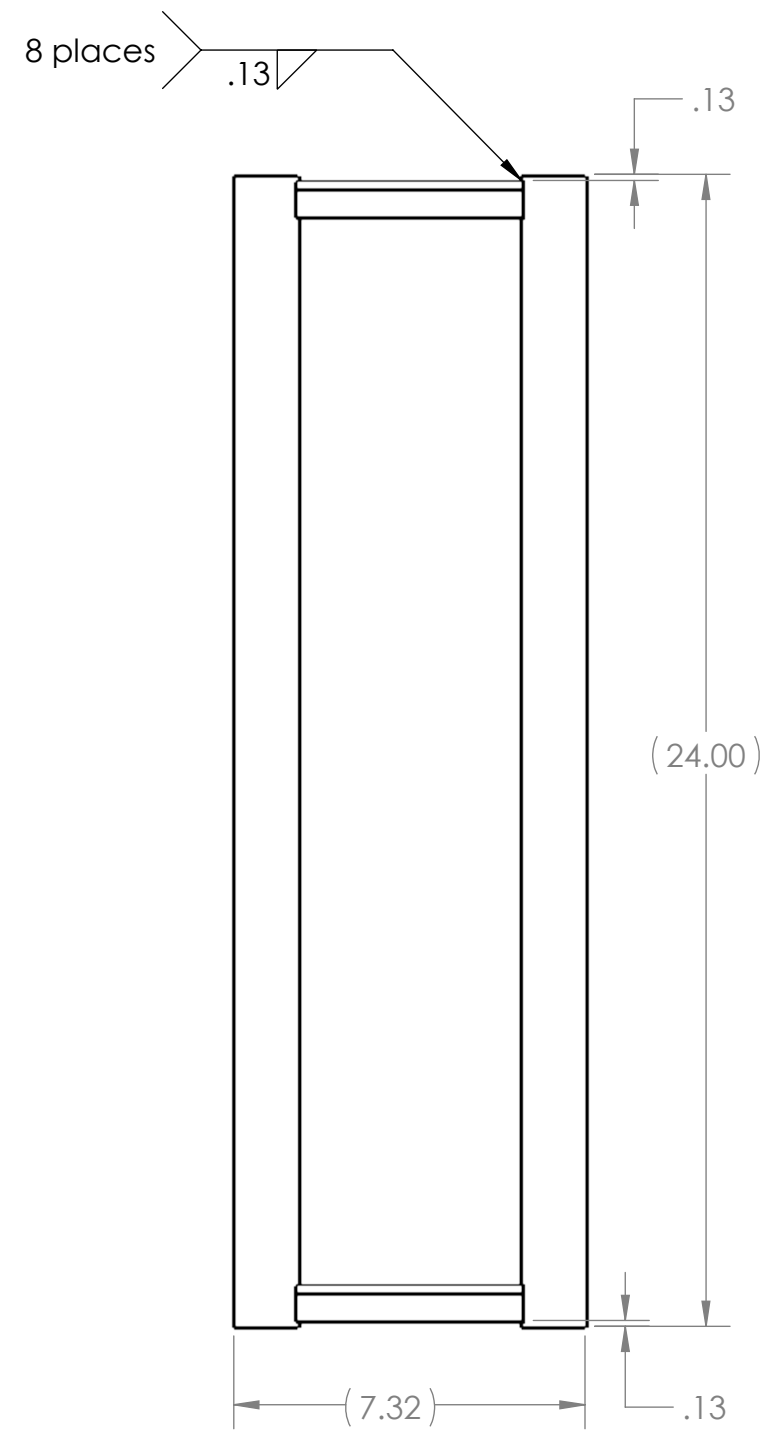
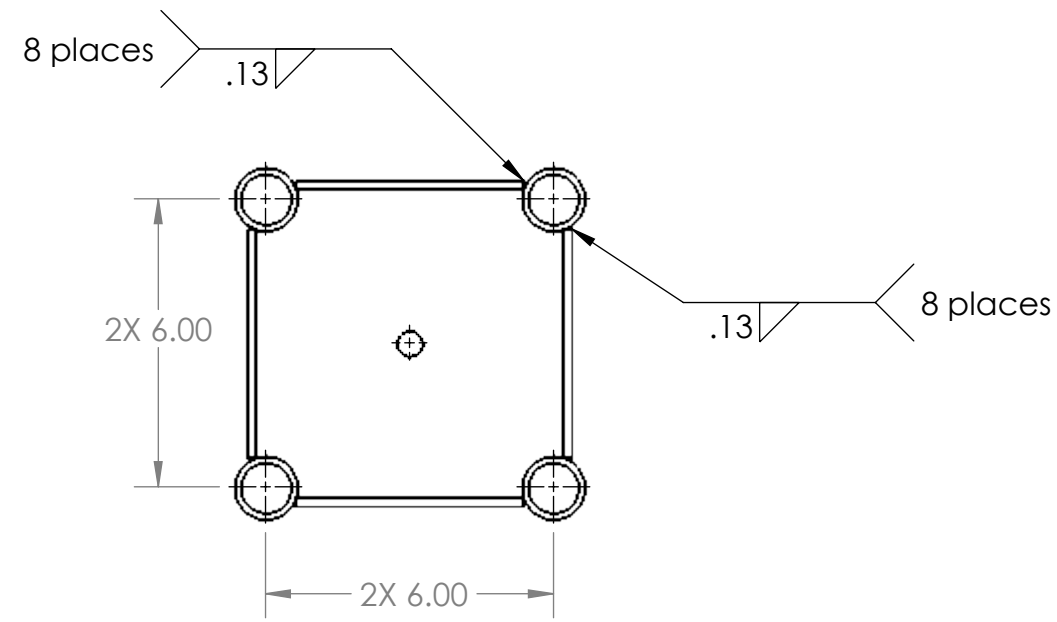
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25201-01	10 ga. A36/1008 Mild Steel Sheet	1
2	GE-25201-02	10 ga. A36/1008 Mild Steel Sheet	1
3	GE-25201-03	1" Schedule 40 Pipe, A500 Steel	4

UNLESS OTHERWISE SPECIFIED:		WELD	NAME	DATE	 
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .02$ THREE PLACE DECIMAL $\pm .015$		DRAWN	DF	7/10/2024	
<b>MATERIAL/FINISH:</b> Steel, welded and powder coated RAL# 3020		<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.			TITLE: <h2 style="text-align: center;">Cage Weldment, Red</h2>
DO NOT SCALE DRAWING		<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			SIZE DWG. NO. REV <b>C</b> GE-25201
		SCALE: 1:4			SHEET 1 OF 2



UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .02 THREE PLACE DECIMAL ± .015  <b>MATERIAL/FINISH:</b> Steel, welded and powder coated RAL# 3020  DO NOT SCALE DRAWING	WELD	NAME	DATE	
	DRAWN	DF	7/10/2024	
	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			TITLE:
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			Cage Weldment, Red
SIZE		DWG. NO.	REV	
<b>C</b>		GE-25201		
SCALE: 1:2		SHEET 2 OF 2		





ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25202-01	10 ga. A36/1008 Mild Steel Sheet	1
2	GE-25202-02	10 ga. A36/1008 Mild Steel Sheet	1
3	GE-25202-03	1" Schedule 40 Pipe, A500 Steel	4

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ± 1/16  
 ANGULAR: MACH ± 1° BEND ± 1°  
 TWO PLACE DECIMAL ± .02  
 THREE PLACE DECIMAL ± .015

**MATERIAL/FINISH:**  
 Steel, welded and  
 powder coated RAL#  
 5017

DO NOT SCALE DRAWING

WELD	NAME	DATE
DRAWN	DF	7/10/2024

**PROPRIETARY AND CONFIDENTIAL**  
 THE INFORMATION CONTAINED IN  
 THIS DRAWING IS THE SOLE  
 PROPERTY OF **FIRST®**. ANY  
 REPRODUCTION IN PART OR AS A  
 WHOLE WITHOUT THE WRITTEN  
 PERMISSION OF **FIRST®** IS  
 PROHIBITED.

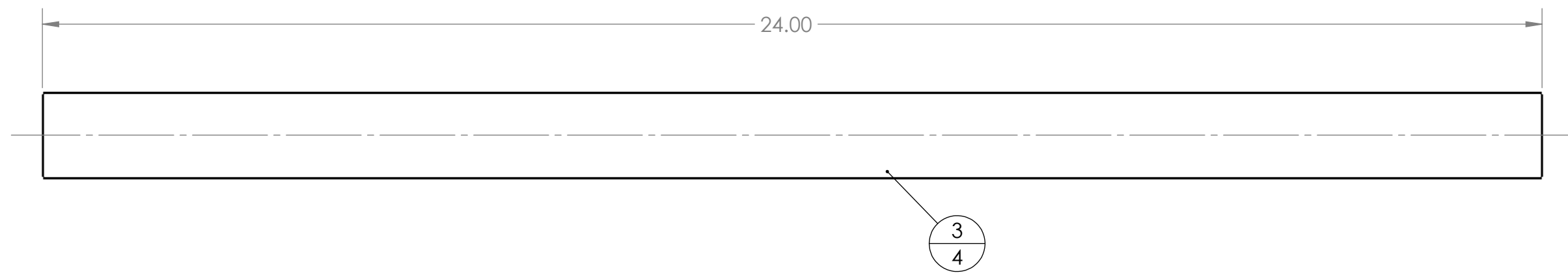
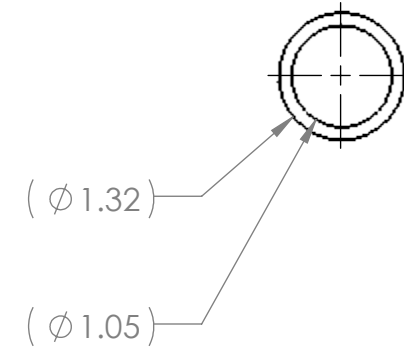
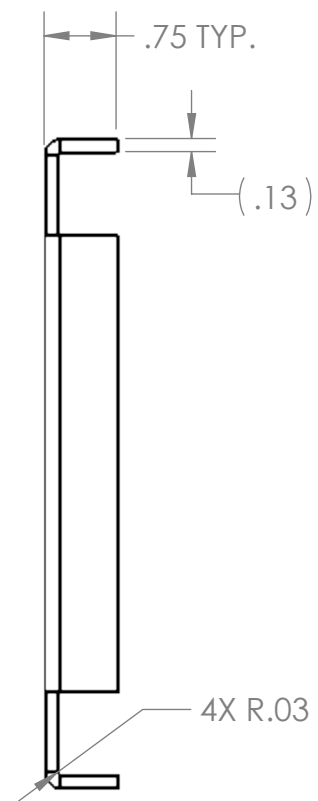
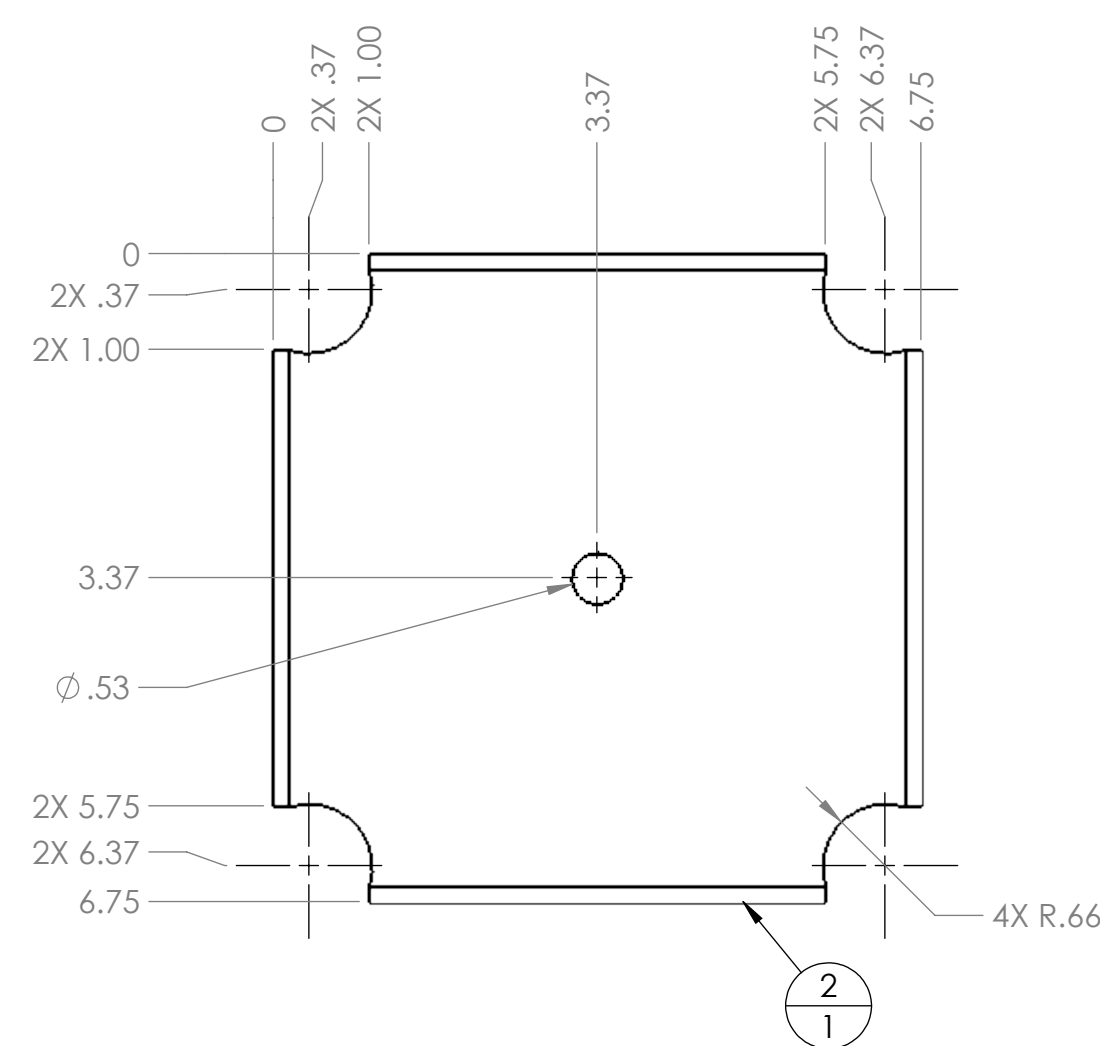
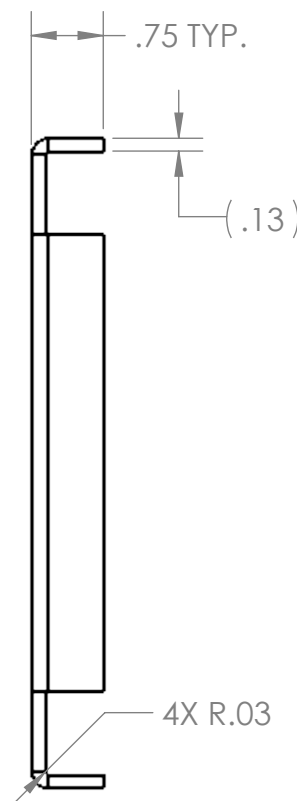
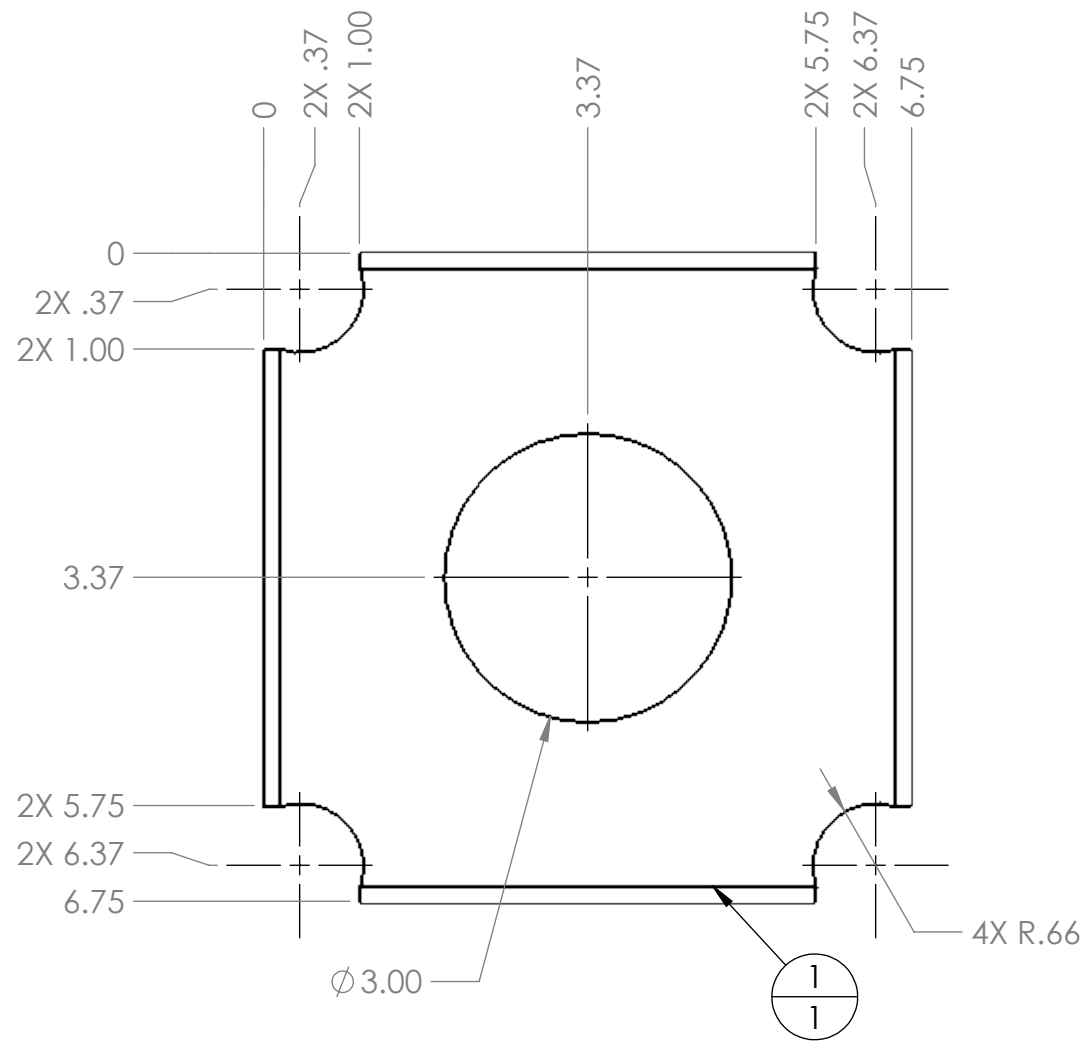
**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP  
 EDGES.




TITLE:  
**Cage  
 Weldment, Blue**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25202	

SCALE: 1:4 SHEET 1 OF 2



UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .02$ THREE PLACE DECIMAL $\pm .015$  <b>MATERIAL/FINISH:</b> Steel, welded and powder coated RAL# 5017  DO NOT SCALE DRAWING	WELD	NAME	DATE		
	DRAWN	DF	7/10/2024		
	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.				TITLE:
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.				Cage Weldment, Blue
SIZE		DWG. NO.	REV		
C		GE-25202			
SCALE: 1:2		SHEET 2 OF 2			

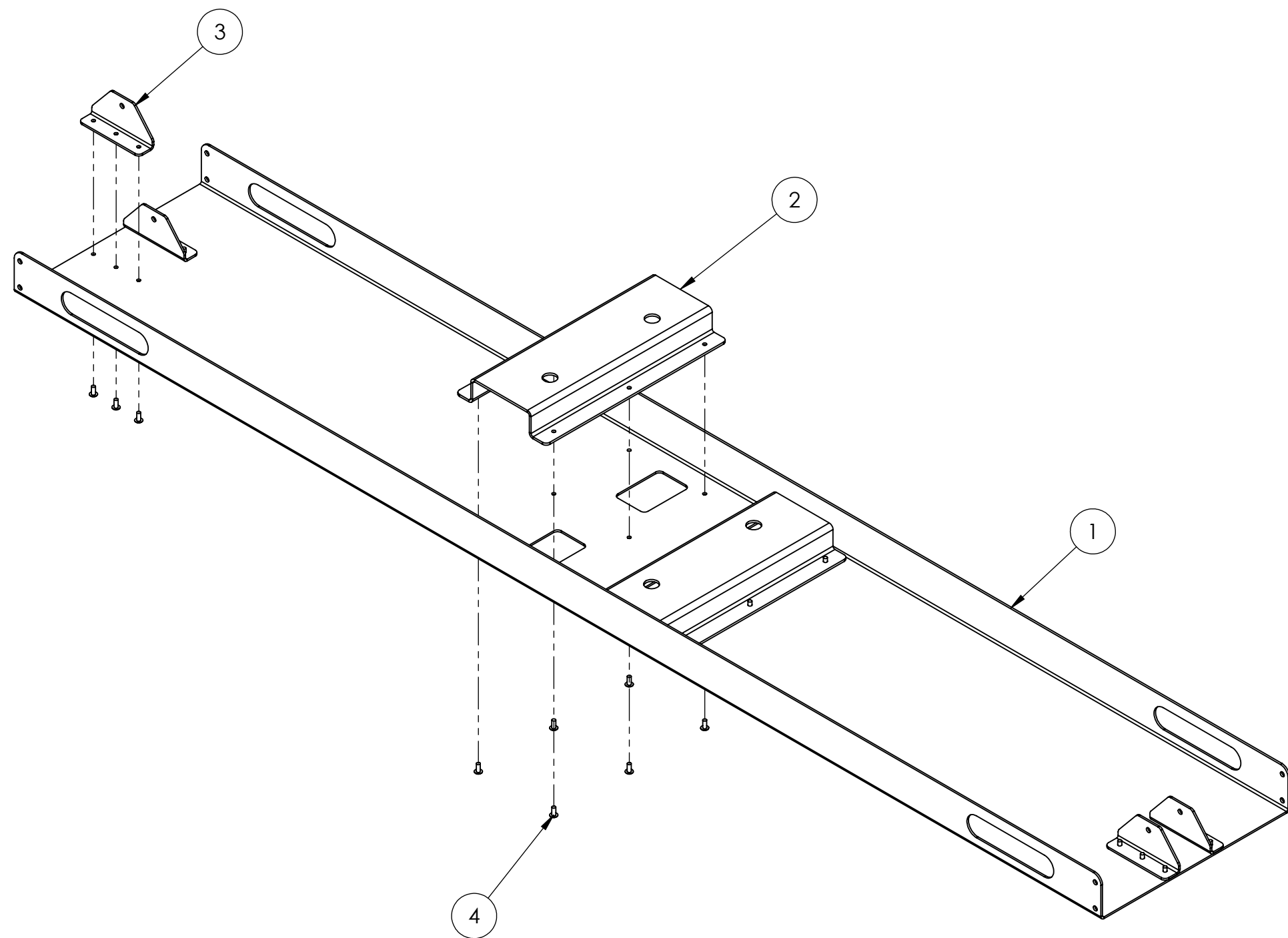
4

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2

1

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
2-B4	A	2X $\phi$ .75 was 2X $\phi$ .88	8/28/2024	DAF
2-C2, 2-C4	B	Added 4X $\phi$ .27 THRU ALL holes.	9/10/2024	DAF



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25203-01	Truss Base - Sheet Metal Assembly, Base Plate	1
2	GE-25203-02	Truss Base - Sheet Metal Assembly, Truss Feet	2
3	GE-25203-03	Truss Base - Sheet Metal Assembly, Angle	4
4	rivet_.1875_.126-.25	3/16" Rivet, .126-.25 Grip Range	24

UNLESS OTHERWISE SPECIFIED:		BEND	NAME	DATE
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm$ 1/16 ANGULAR: MACH $\pm$ 1° BEND $\pm$ 1° TWO PLACE DECIMAL $\pm$ .02 THREE PLACE DECIMAL $\pm$ .010		DRAWN	DF	8/19/2024
<b>MATERIAL/FINISH:</b> 11 and 12 Gauge Steel, Paint or Powder Coat Black		<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.		
DO NOT SCALE DRAWING		<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		
		 		TITLE: Truss Base, Long - Sheet Metal Assembly
SIZE	DWG. NO.			REV
<b>C</b>	GE-25203			<b>B</b>
SCALE: 1:6		SHEET 1 OF 2		

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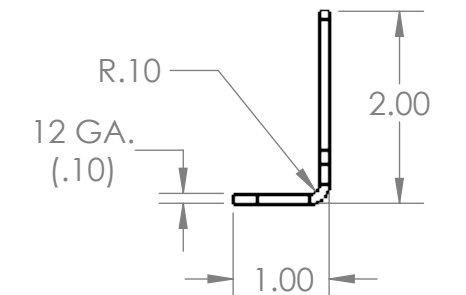
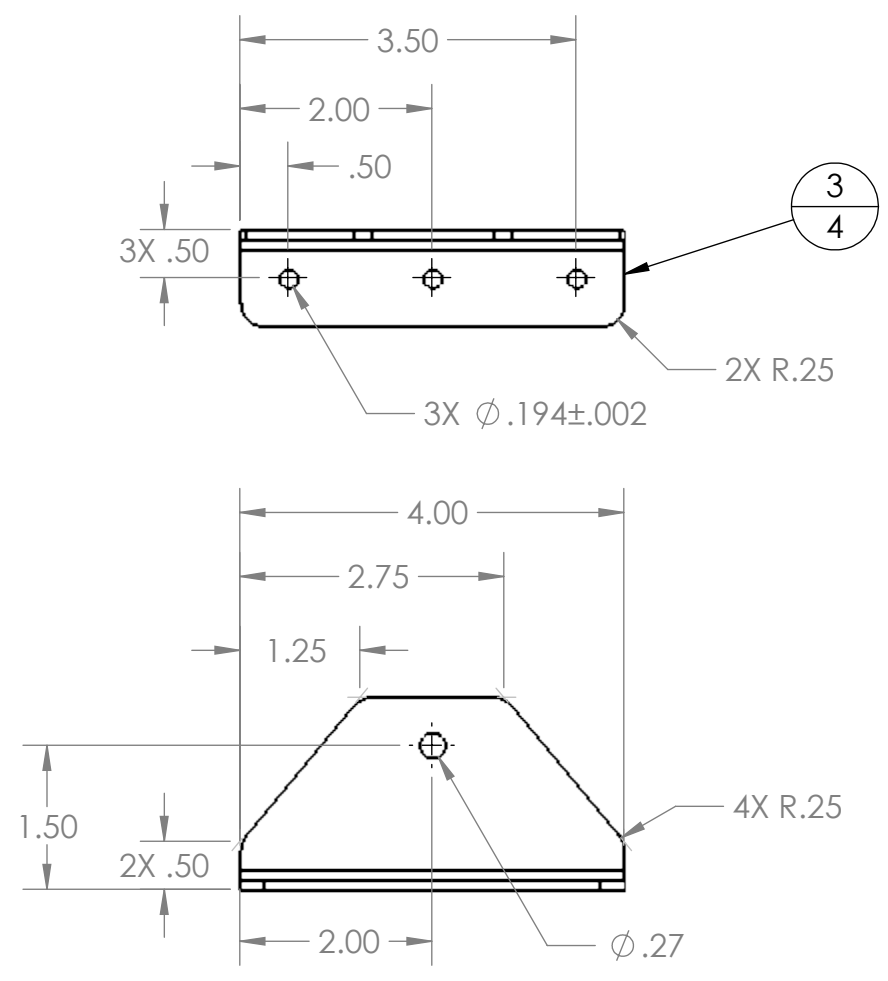
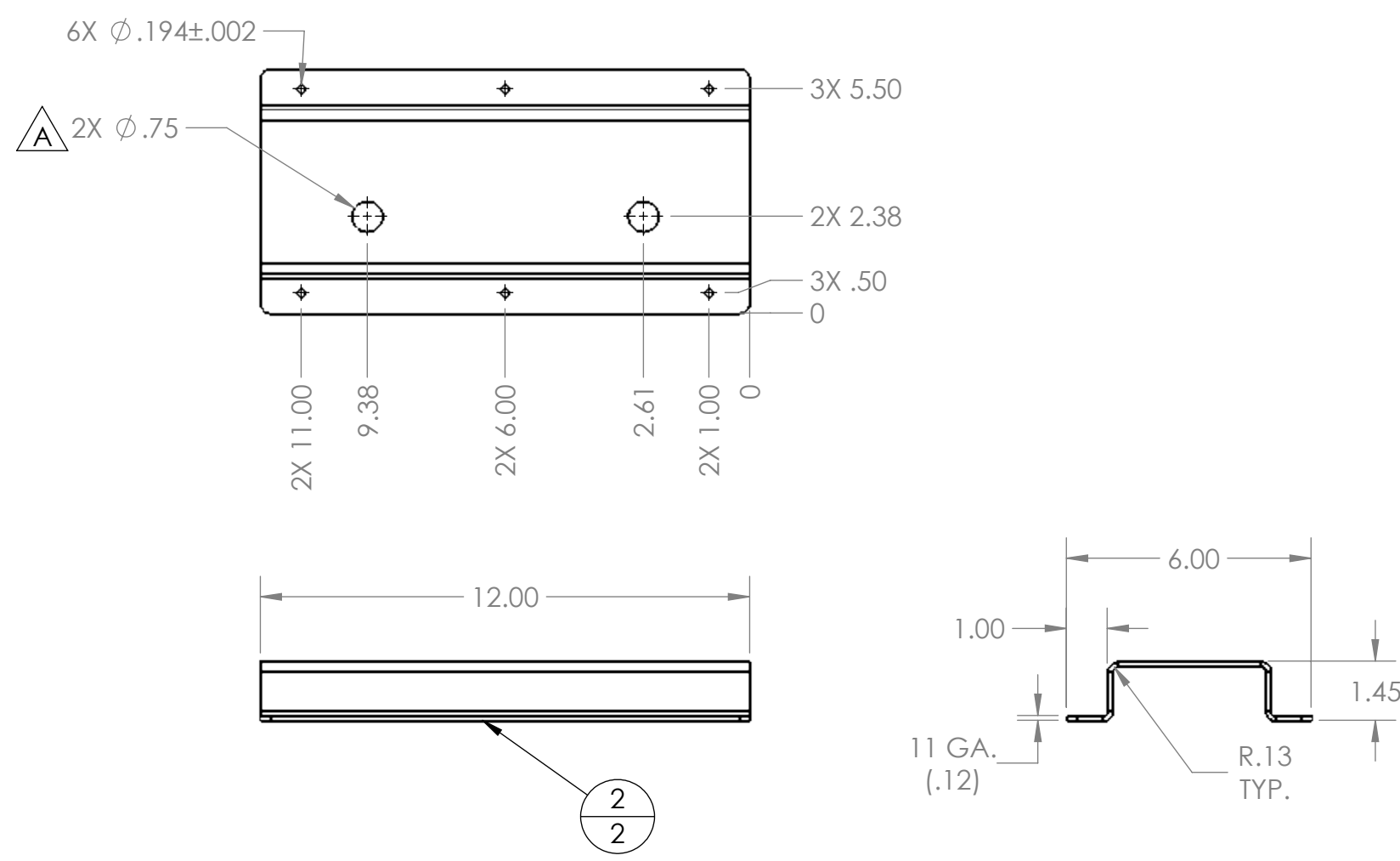
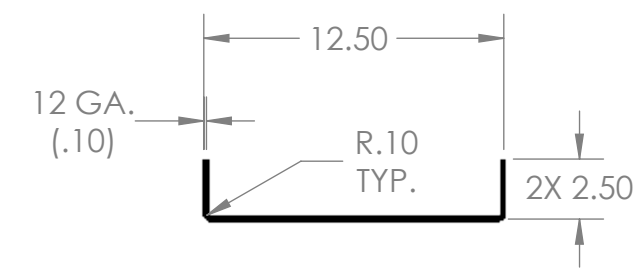
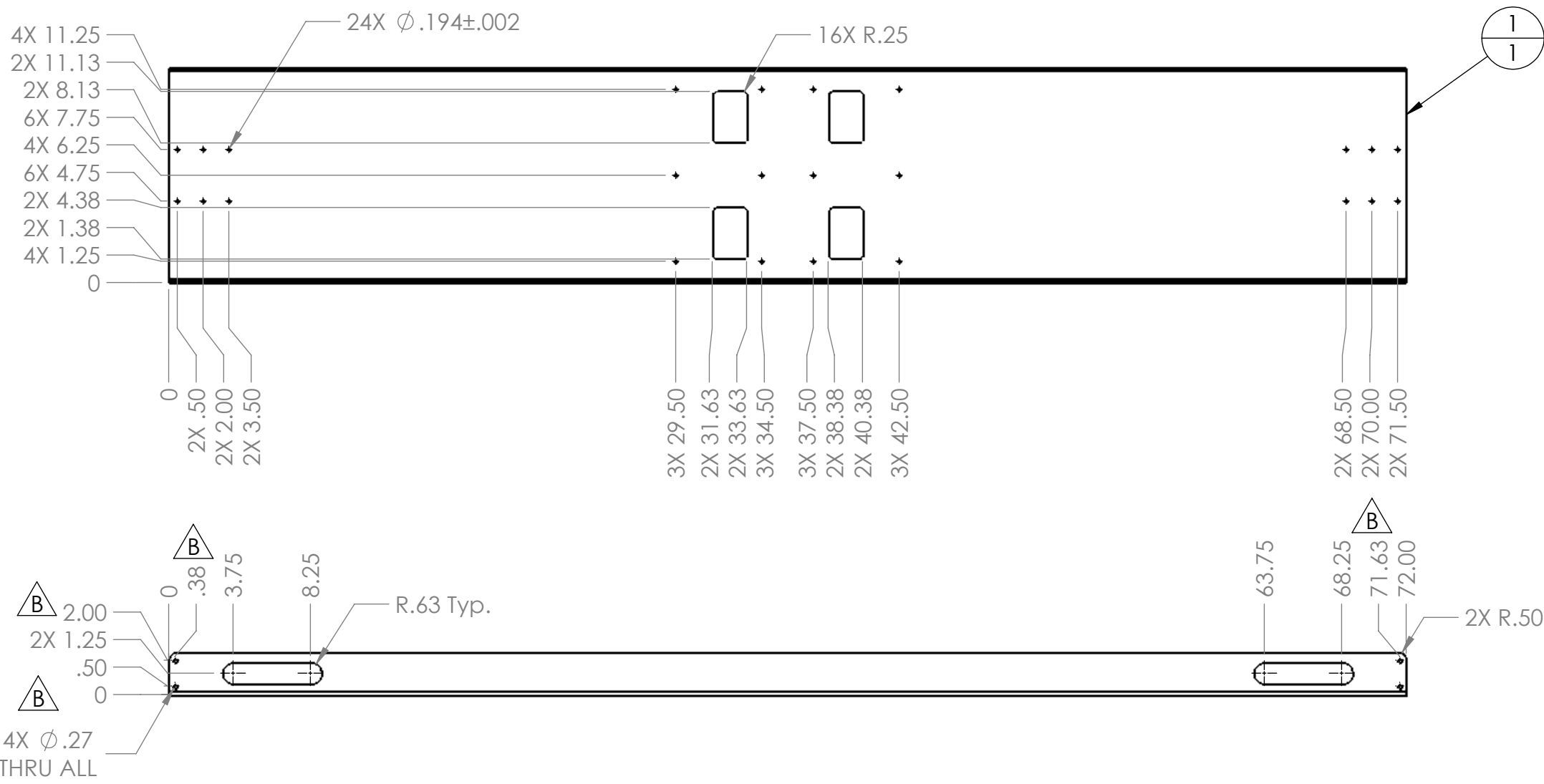
C


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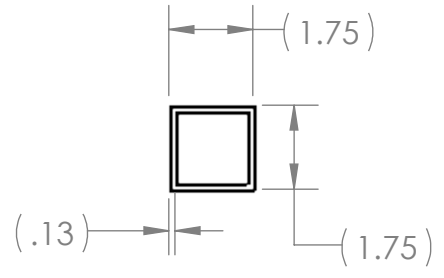
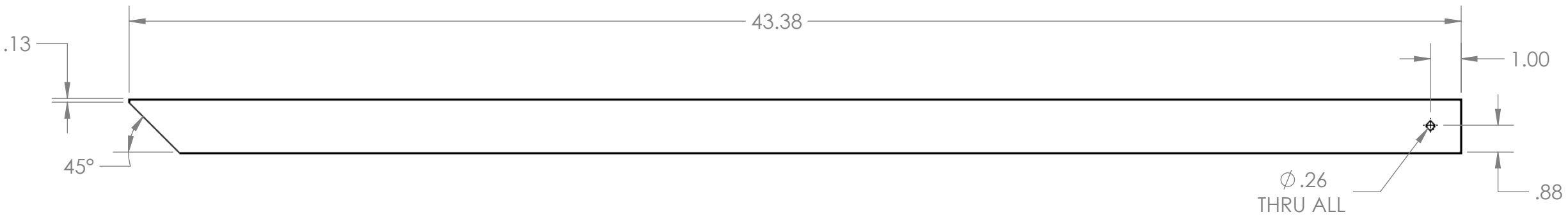
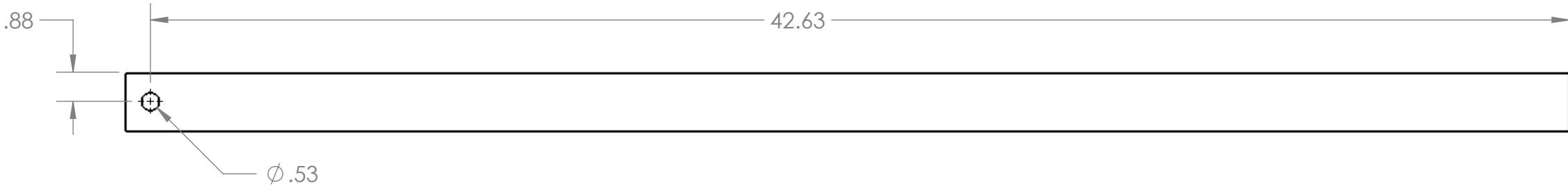
UNLESS OTHERWISE SPECIFIED:	BEND	NAME	DATE	
	DRAWN	DF	8/19/2024	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .02 THREE PLACE DECIMAL ± .010	<b>PROPRIETARY AND CONFIDENTIAL</b>			TITLE: Truss Base, Long - Sheet Metal Assembly
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST®. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED.			
<b>MATERIAL/FINISH:</b>	11 and 12 Gauge Steel, Paint or Powder Coat Black			SIZE DWG. NO. REV <b>C</b> GE-25203 <b>B</b>
<b>COMMENTS:</b>	REMOVE ALL BURRS AND SHARP EDGES.			SCALE: 1:8 SHEET 2 OF 2
DO NOT SCALE DRAWING				

4

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1



Notes:  
1. Tag or label with part number.

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL  $\pm 1/16$   
 ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
 TWO PLACE DECIMAL  $\pm .01$   
 THREE PLACE DECIMAL  $\pm .005$   
**MATERIAL/FINISH:**  
 1.75 X .125 Square Tubing,  
 6061 Aluminum  
 DO NOT SCALE DRAWING

VEND	NAME	DATE
DRAWN	DF	8/23/2024
<b>PROPRIETARY AND CONFIDENTIAL</b>		
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.		
<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		

 		
TITLE: <b>Truss Brace</b>		
SIZE	DWG. NO.	REV
<b>C</b>	<b>GE-25204</b>	
SCALE: 1:4		SHEET 1 OF 1

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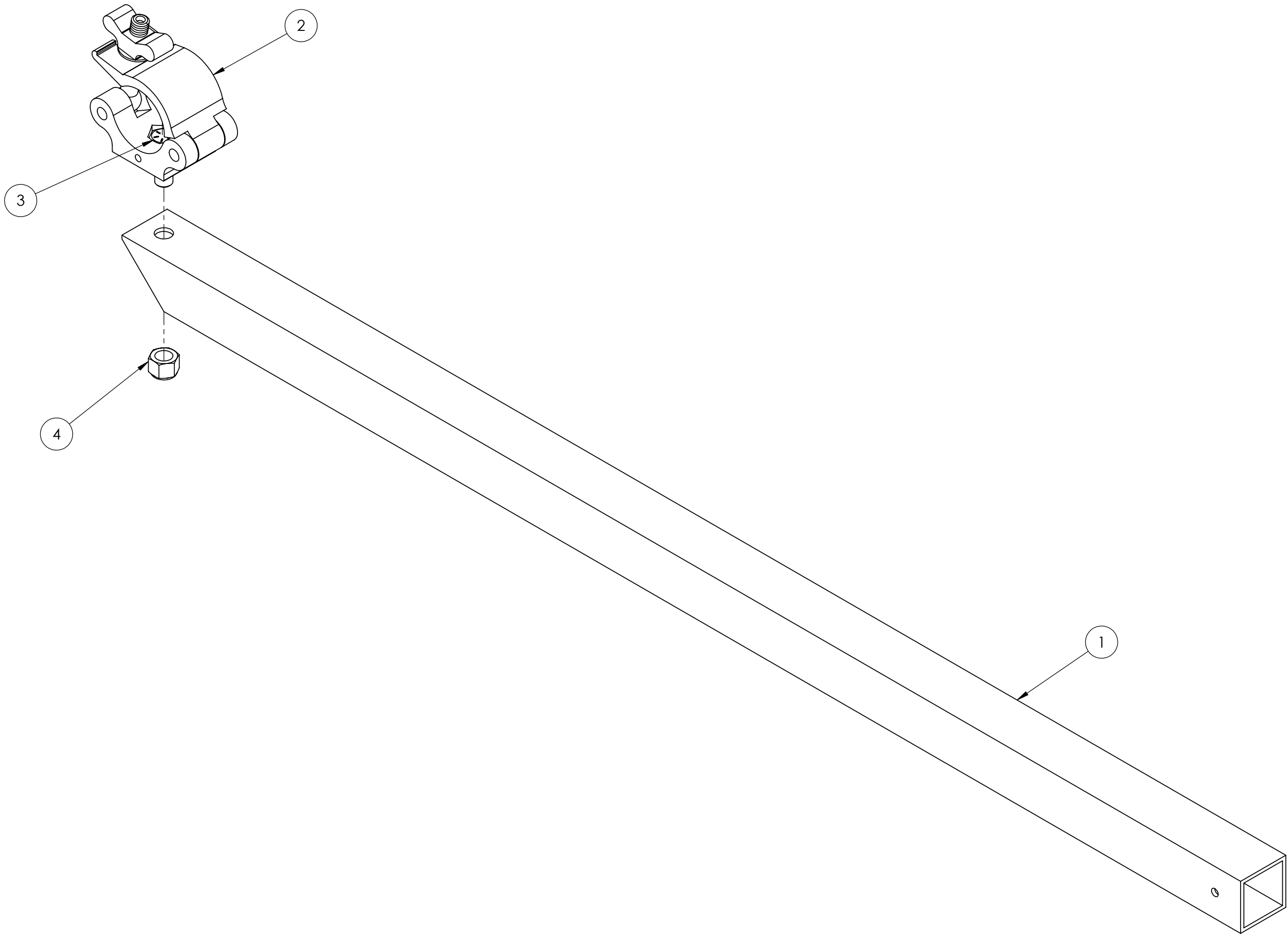
B

B

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A





ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25204	Truss Brace	1
2	FE-01016	Cheeseborough for Truss_Single	1
3	hex_.5_13_1.25	Steel Hex Head Screw, 1/2"-13 x 1.25" long, fully threaded	1
4	nylock_.5_13	steel nylon-insert locknut, 1/2" - 13	1

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ± 1/2  
 ANGULAR: MACH ± 1° BEND ± 1°  
 TWO PLACE DECIMAL ± .50

**MATERIAL/FINISH:**

DO NOT SCALE DRAWING

FIELD	NAME	DATE
DRAWN	JO	12/16/2024

**PROPRIETARY AND CONFIDENTIAL**  
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF **FIRST®**. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF **FIRST®** IS PROHIBITED.

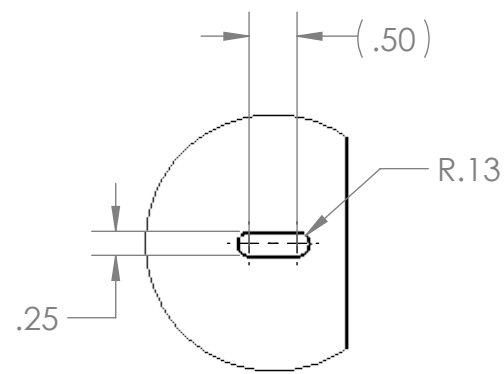
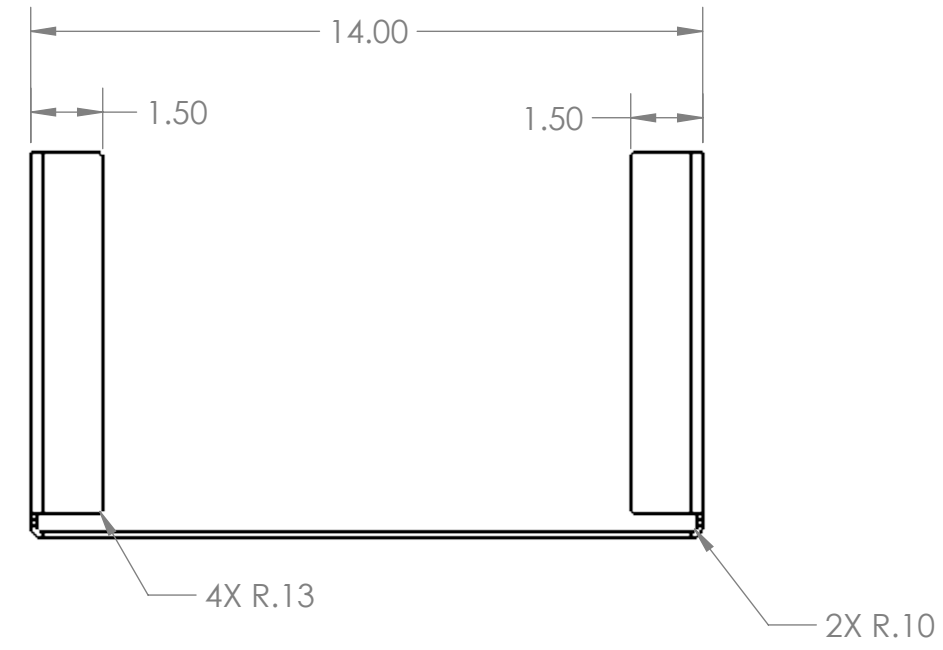
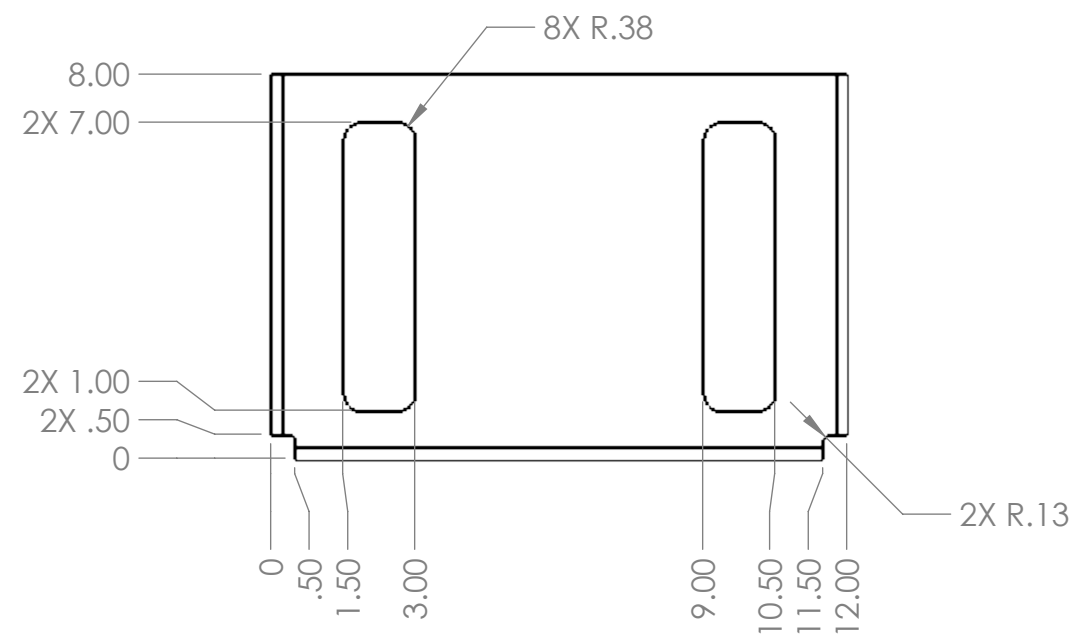
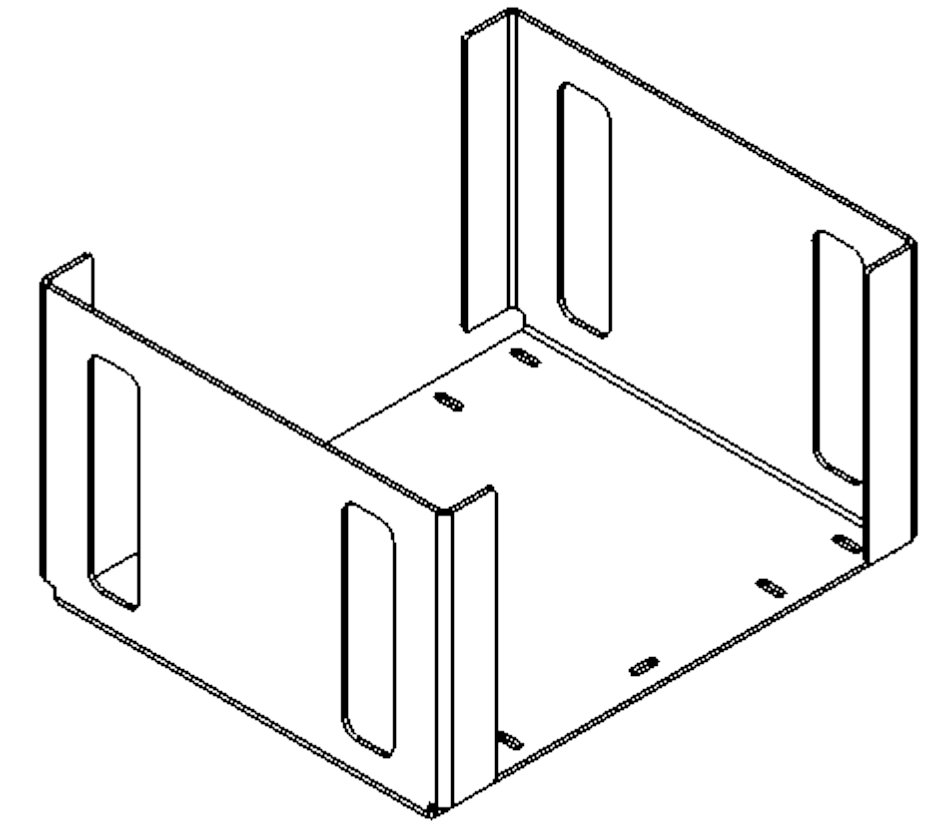
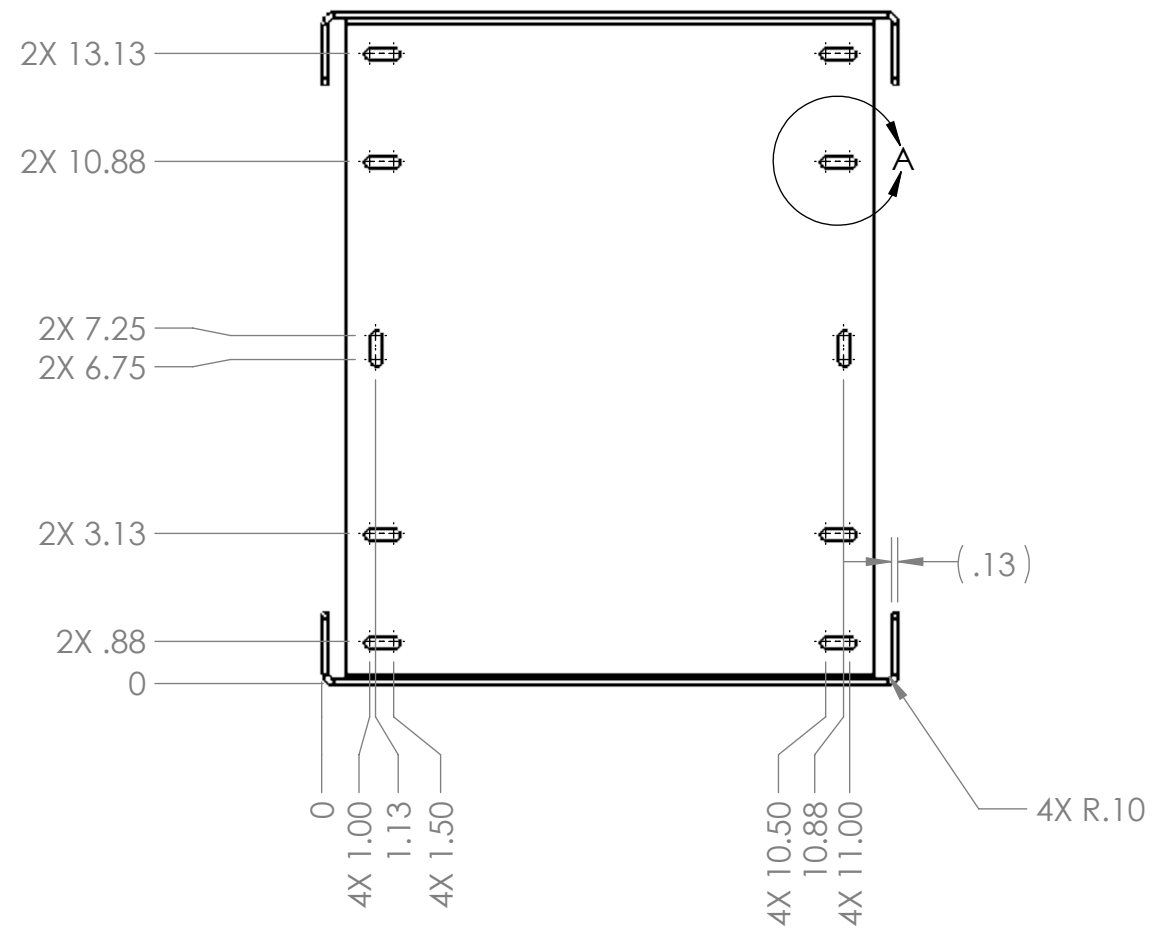
**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.





TITLE:  
**Truss Brace Assembly**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25205	

SCALE: 1:2.5 SHEET 1 OF 1



DETAIL A  
SCALE 1 : 2  
TYP. 10 PLACES

UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .02$ THREE PLACE DECIMAL $\pm .010$  <b>MATERIAL/FINISH:</b> 8 ga. 5052 Aluminum Sheet  DO NOT SCALE DRAWING	BEND	NAME	DATE	 
	DRAWN	DF	10/3/2024	
<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.				TITLE:
				Backboard Brace
SIZE		DWG. NO.	REV	
C		GE-25206		
SCALE: 1:4			SHEET 1 OF 1	

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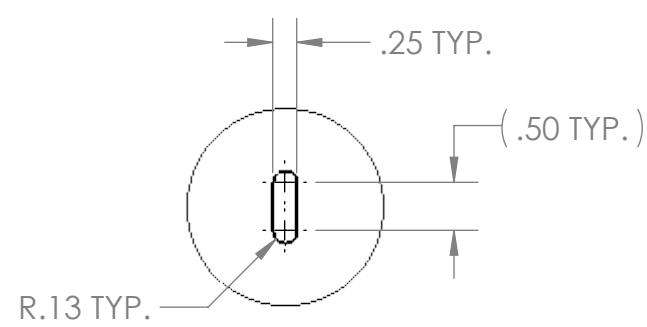
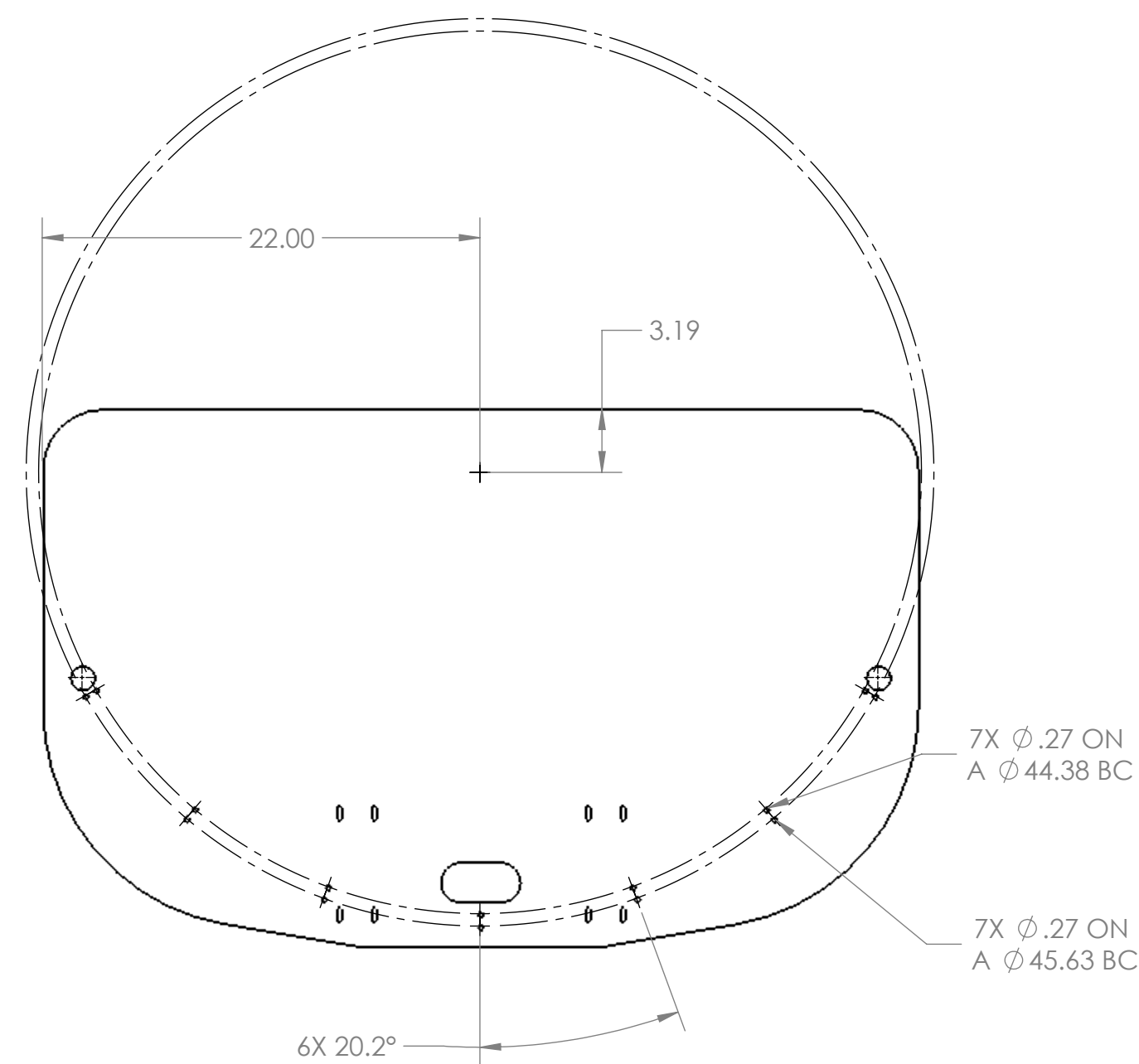
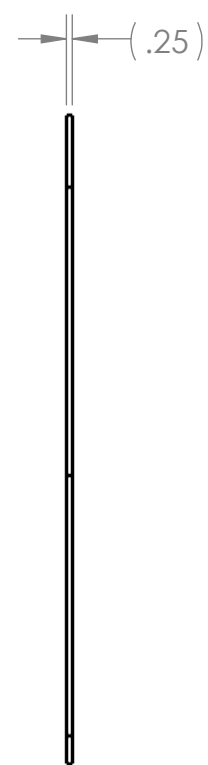
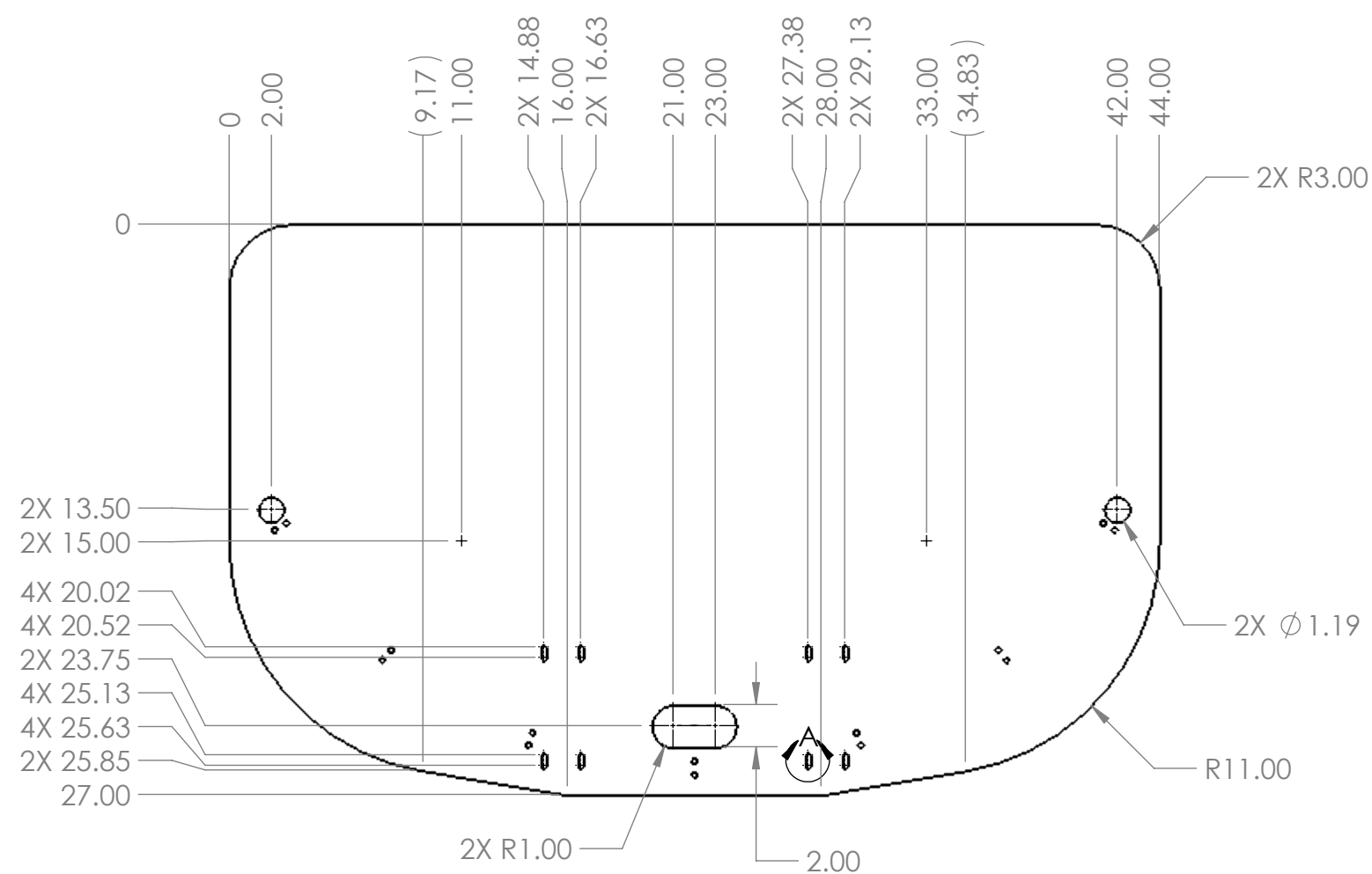
C

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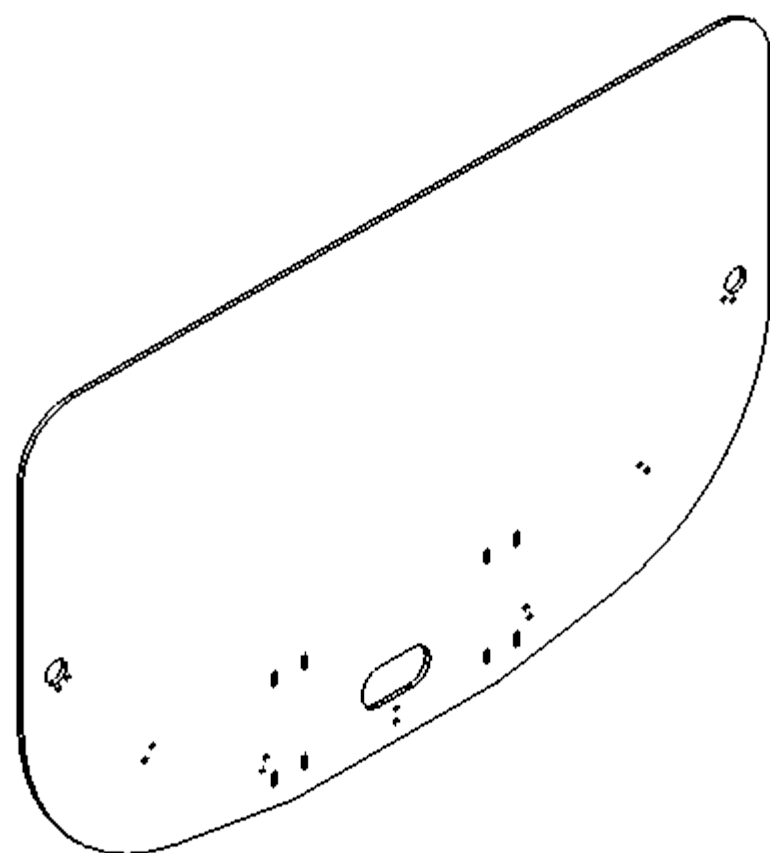
B



A

A

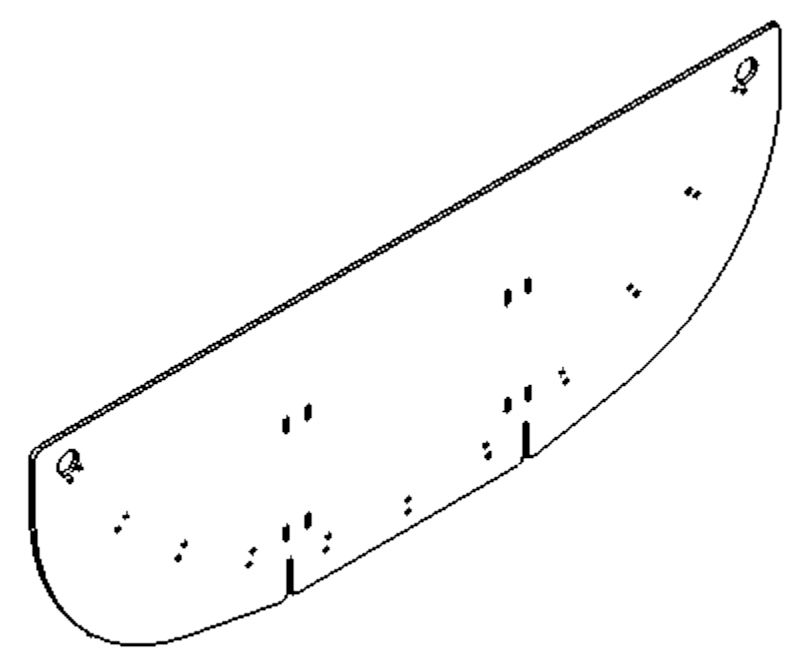
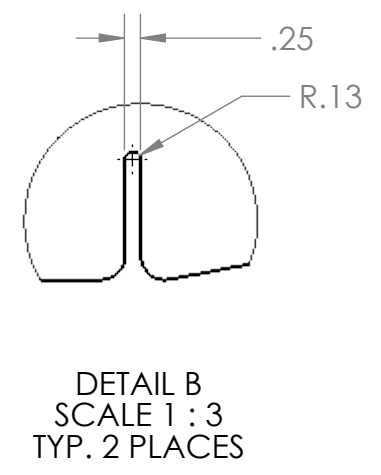
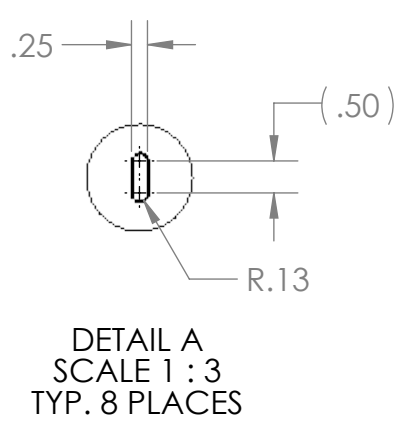
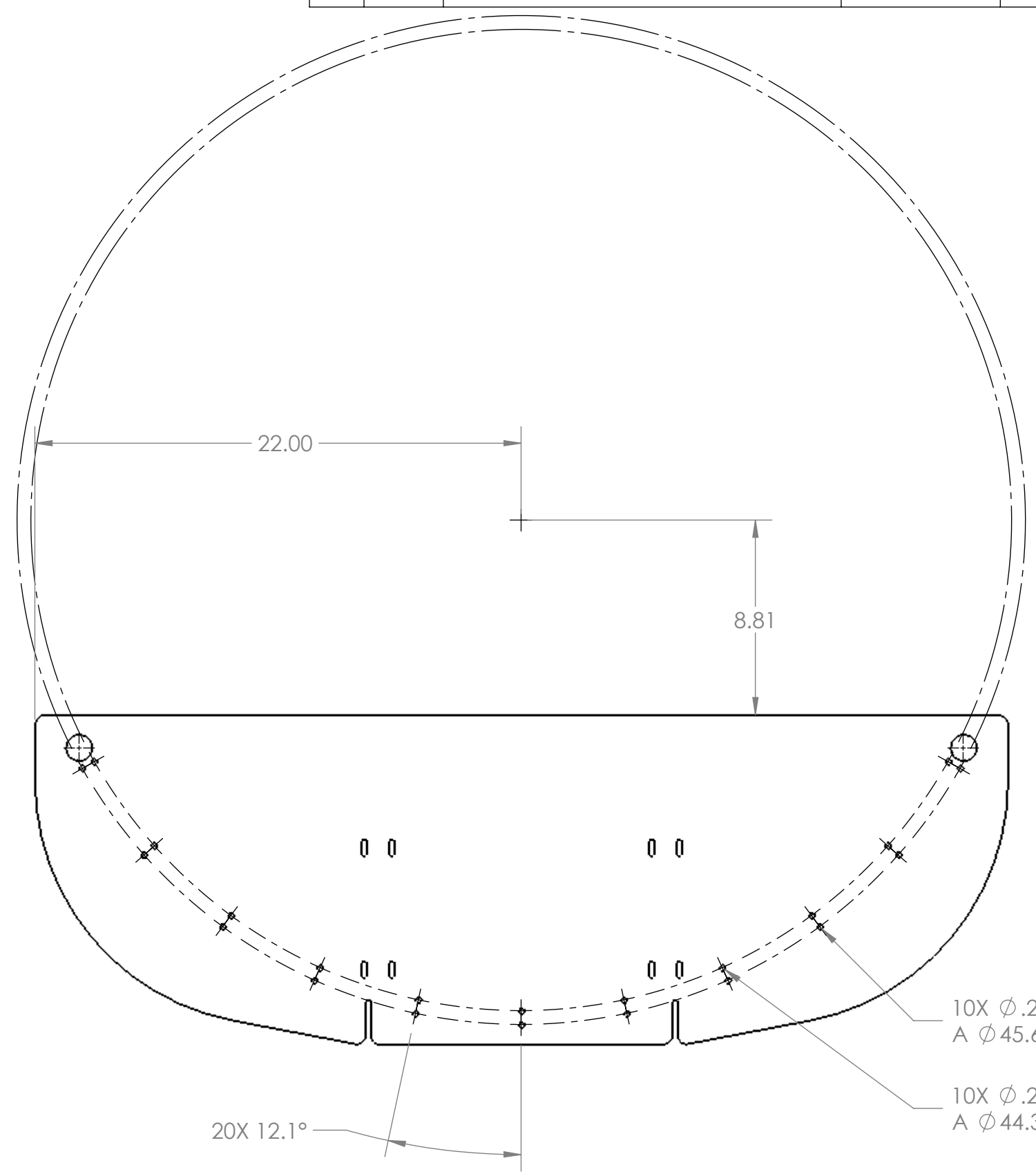
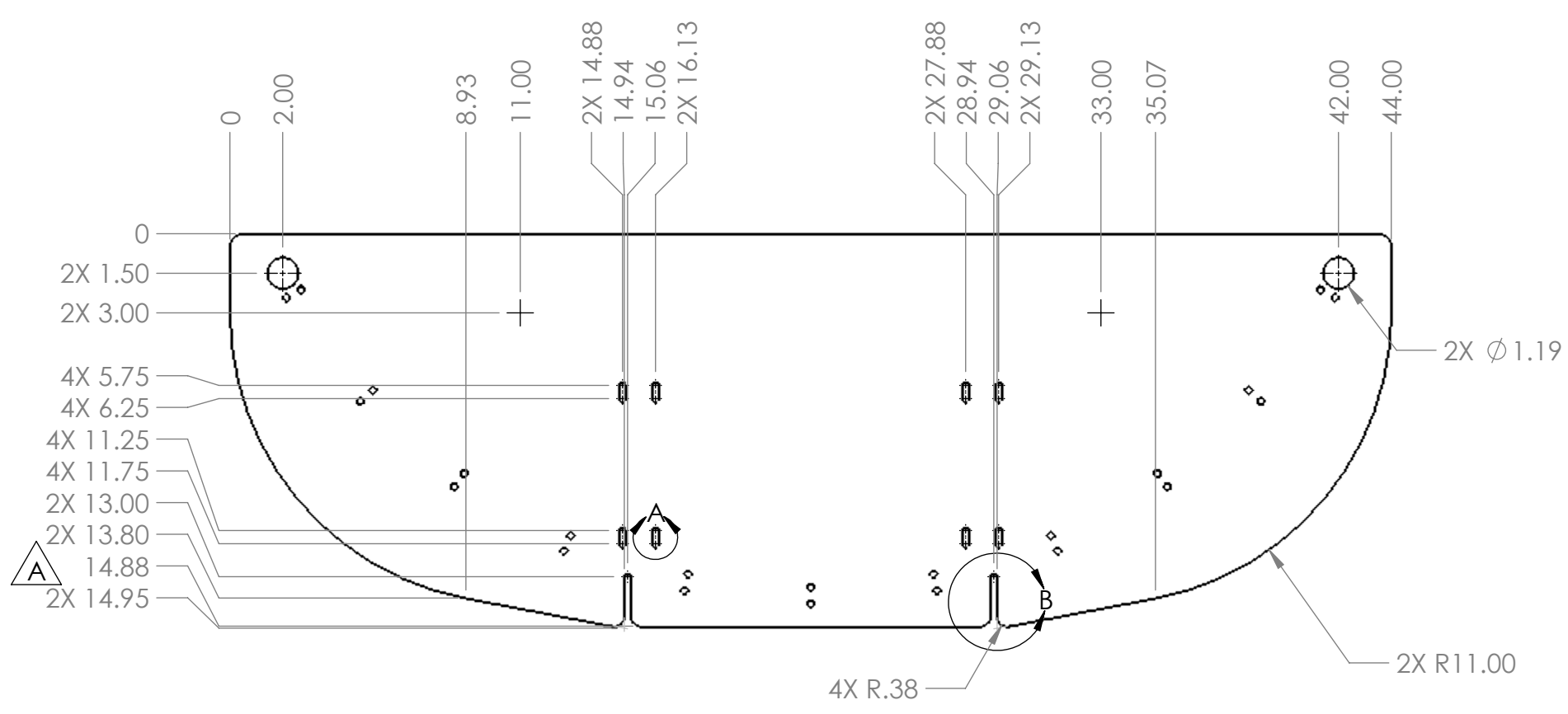




DETAIL A  
SCALE 1 : 2



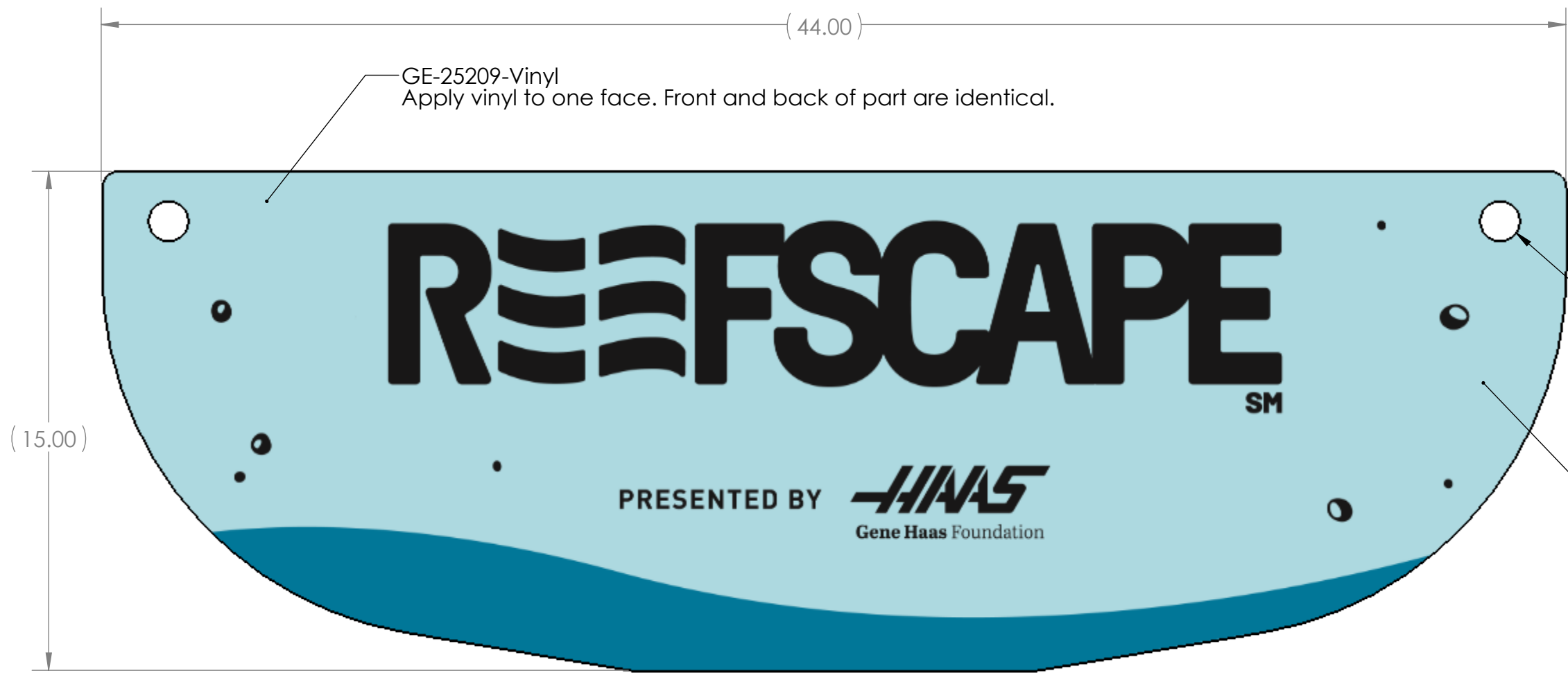
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm$ 1/16 ANGULAR: MACH $\pm$ 1° BEND $\pm$ 1° TWO PLACE DECIMAL $\pm$ .01 THREE PLACE DECIMAL $\pm$ .005	VEND	NAME	DATE	 
	DRAWN	DF	10/2/2024	
<b>MATERIAL/FINISH:</b> 1/4" Polycarbonate, Clear	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> ®. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> ® IS PROHIBITED.			TITLE: <b>Backboard</b>
DO NOT SCALE DRAWING	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			SIZE DWG. NO. REV <b>C</b> GE-25207
	SCALE: 1:8		SHEET 1 OF 1	

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
B4	A	14.88 was 15.00	10/3/2024	DF



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .01 THREE PLACE DECIMAL ± .005	VEND	NAME	DATE	 
	DRAWN	DF	10/3/2024	
<b>MATERIAL/FINISH:</b> 1/4" Polycarbonate, Clear	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			TITLE: <b>Inner Front</b>
<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.	SCALE: 1:6	DWG. NO. <b>C</b> GE-25208	REV <b>A</b>	SHEET 1 OF 1
DO NOT SCALE DRAWING				

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
B2	A	Updated graphics	10/21/2024	DF



Cut out vinyl at hole locations. 2 places.



- Notes:
- QTY per field: 2
  - Gloss Vinyl finish.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .005$	VEND	NAME	DATE	
	DRAWN	DF	10/7/2024	
<b>MATERIAL/FINISH:</b>	<b>PROPRIETARY AND CONFIDENTIAL</b>			TITLE:
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.			Outer Front w/Vinyl
<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.	DO NOT SCALE DRAWING		SIZE	DWG. NO.
			<b>C</b>	GE-25209
			REV	A
			SCALE: 1:4	SHEET 1 OF 1

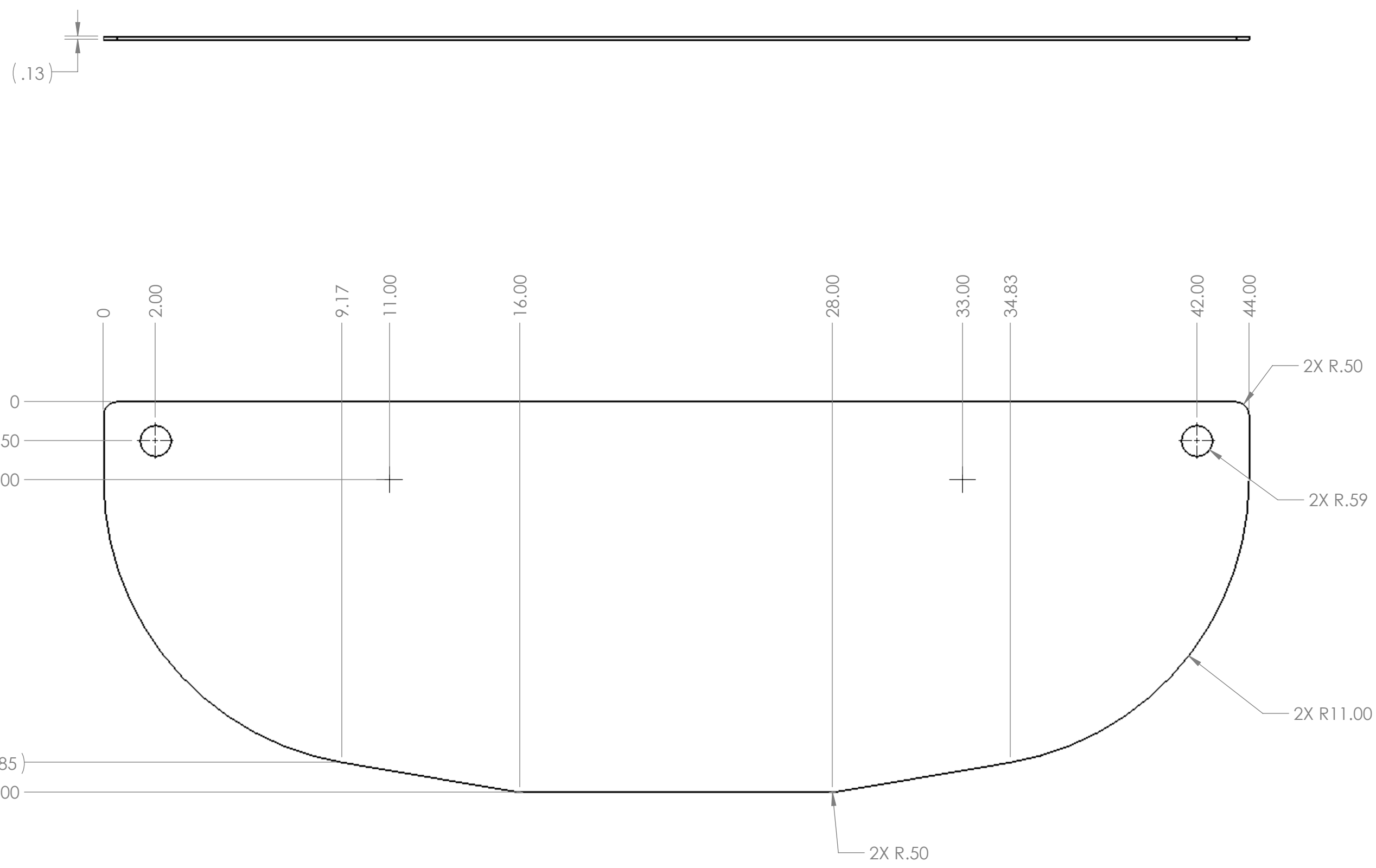


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UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL  $\pm 1/16$   
 ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
 TWO PLACE DECIMAL  $\pm .01$   
 THREE PLACE DECIMAL  $\pm .005$

**MATERIAL/FINISH:**  
 1/8" Polycarbonate, Clear

DO NOT SCALE DRAWING

VEND	NAME	DATE
DRAWN	DF	10/1/2024
<b>PROPRIETARY AND CONFIDENTIAL</b>		
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.		
<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		

 		
TITLE: <b>Outer Front</b>		
SIZE <b>C</b>	DWG. NO. <b>GE-25210</b>	REV
SCALE: 1:4		SHEET 1 OF 1

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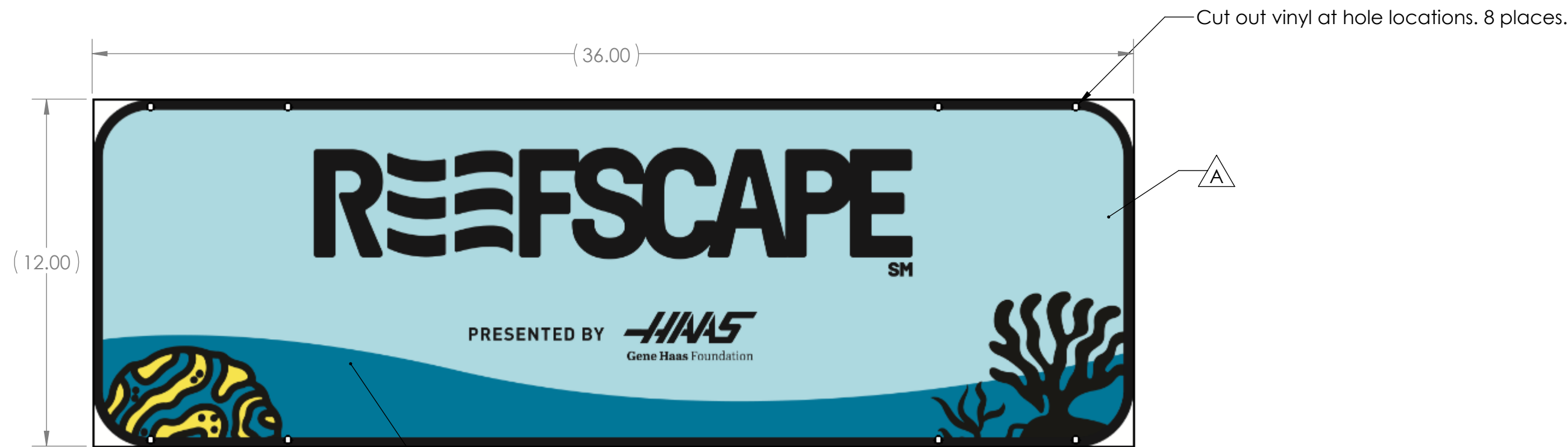
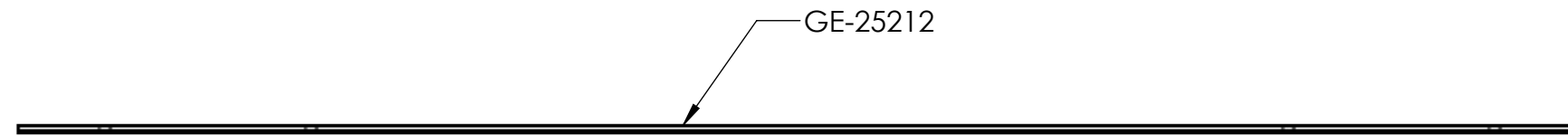
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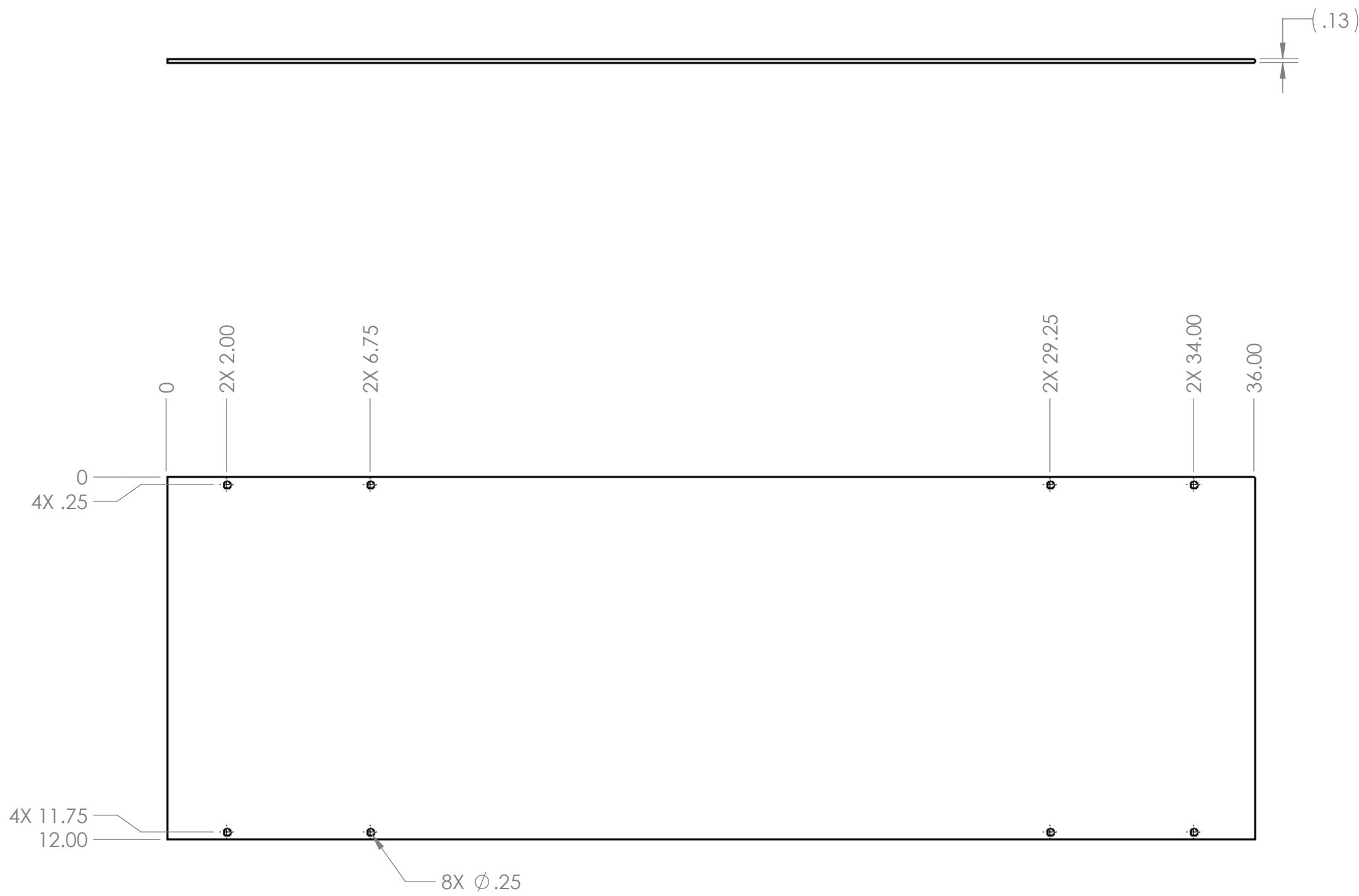
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
B2	A	Updated graphics	10/21/2024	DF



GE-25211-Vinyl  
Apply vinyl to one face. Front and back of part are identical.

- Notes:  
1. QTY per field: 2  
2. Gloss Vinyl finish.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .005$	VEND	NAME	DATE	 
	DRAWN	DF	10/8/2024	
MATERIAL/FINISH:	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			TITLE:
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			Side Panel w/Vinyl
DO NOT SCALE DRAWING	SIZE	DWG. NO.	REV	
	<b>C</b>	GE-25211	<b>A</b>	
	SCALE: 1:4		SHEET 1 OF 1	



UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL  $\pm 1/16$   
 ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
 TWO PLACE DECIMAL  $\pm .01$   
 THREE PLACE DECIMAL  $\pm .005$

**MATERIAL/FINISH:**  
 1/8" Polycarbonate, Clear

DO NOT SCALE DRAWING

VEND	NAME	DATE
DRAWN	DF	10/1/2024

**PROPRIETARY AND CONFIDENTIAL**  
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF **FIRST**. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF **FIRST** IS PROHIBITED.

**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.



TITLE:  
**Side Panel**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25212	<b>A</b>

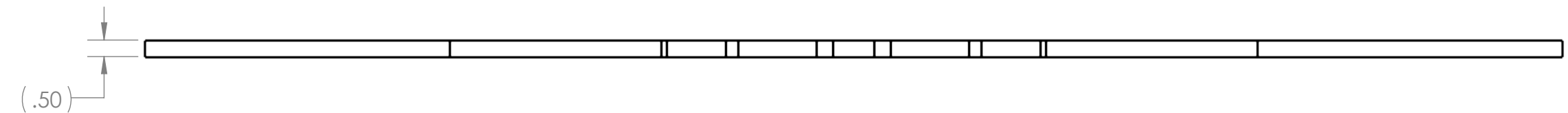
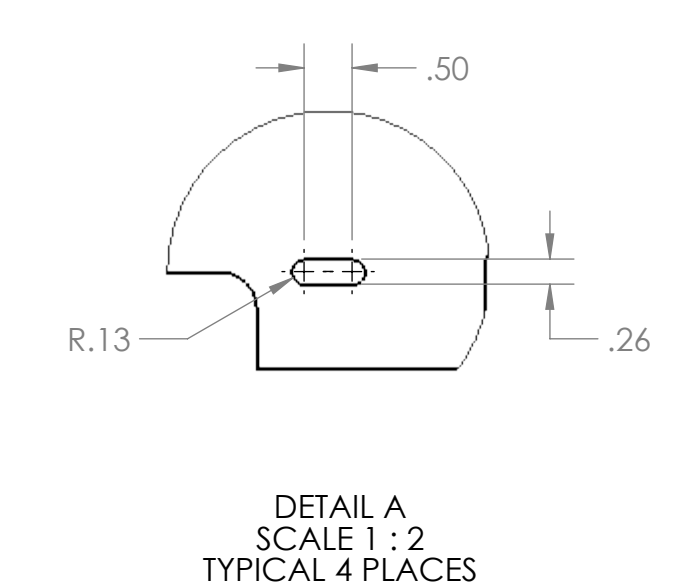
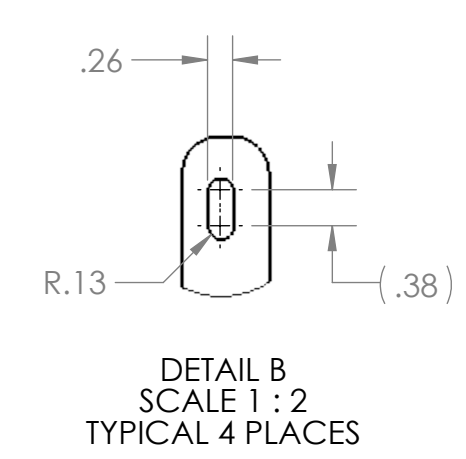
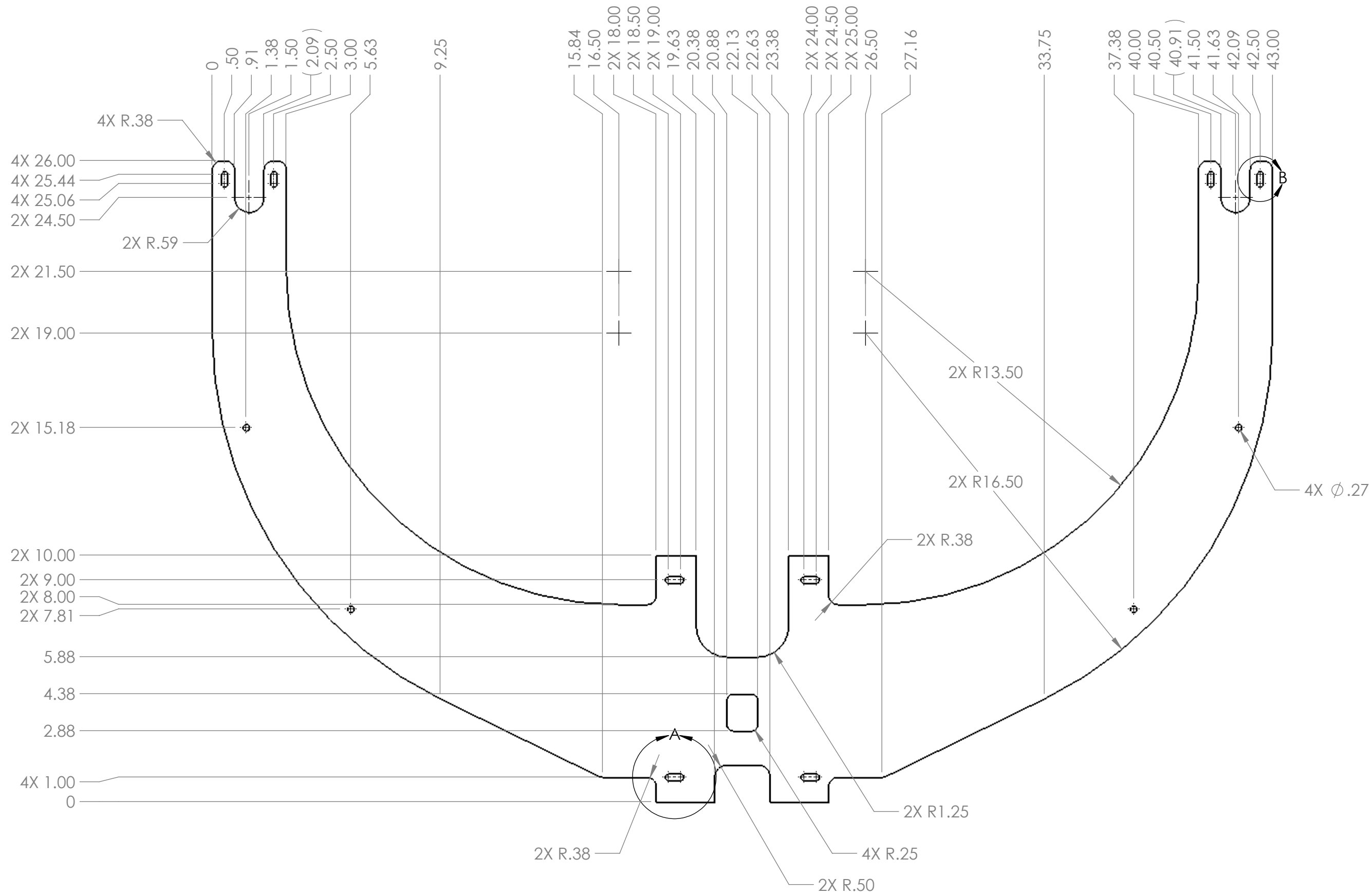
SCALE: 1:4 SHEET 1 OF 1


4

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UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .01 THREE PLACE DECIMAL ± .005  <b>MATERIAL/FINISH:</b> 1/2" HDPE, blue with matte finish  DO NOT SCALE DRAWING	VEND	NAME	DATE		
	DRAWN	DF	10/2/2024		
	<b>PROPRIETARY AND CONFIDENTIAL</b>  THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.	TITLE:			Rib, Blue
		<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			
DWG. NO. <b>GE-25213</b>			REV	SCALE: 1:4	
SHEET 1 OF 1					

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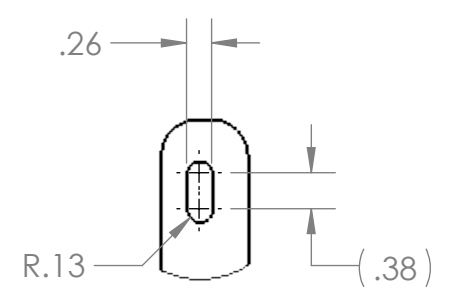
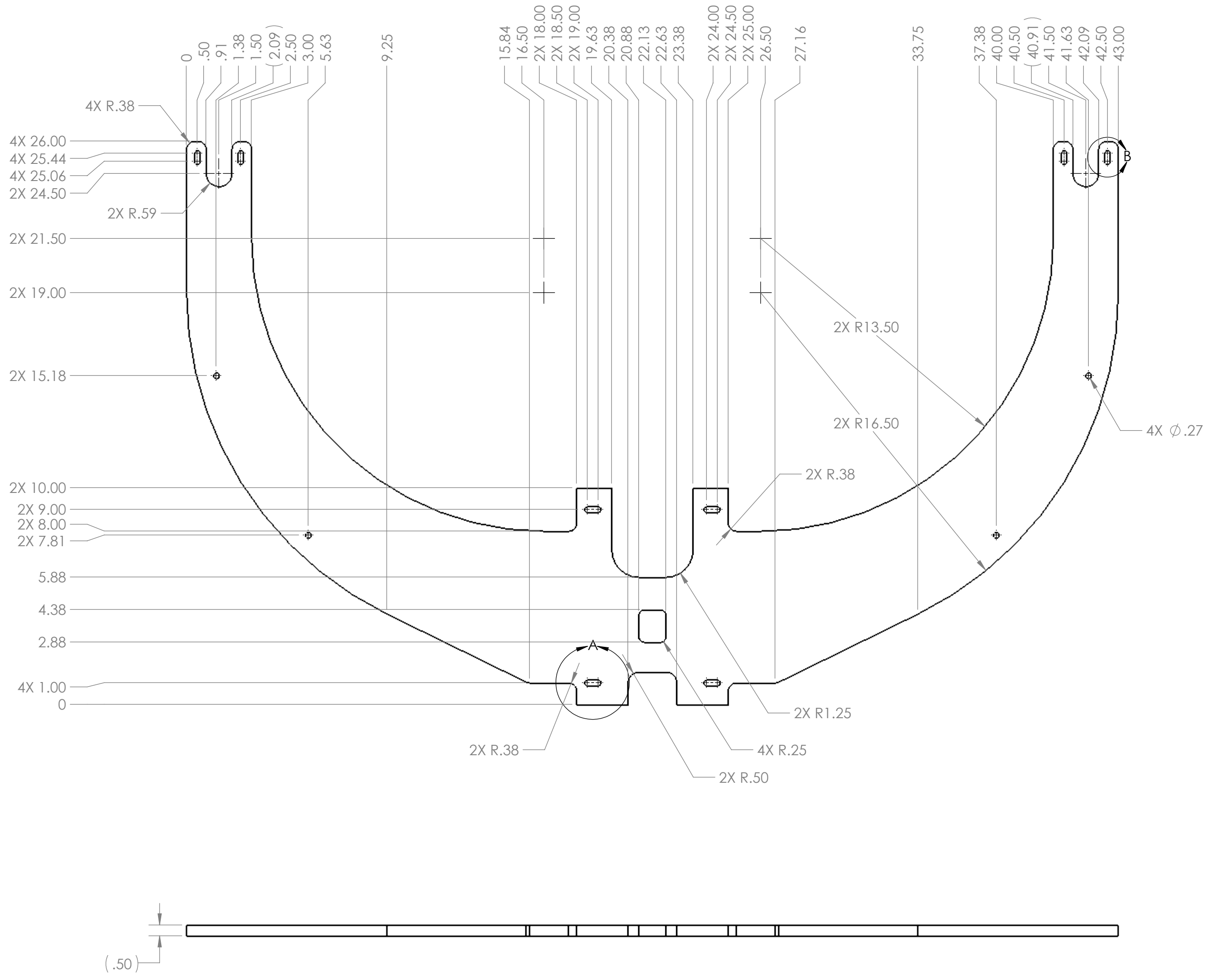
C

B

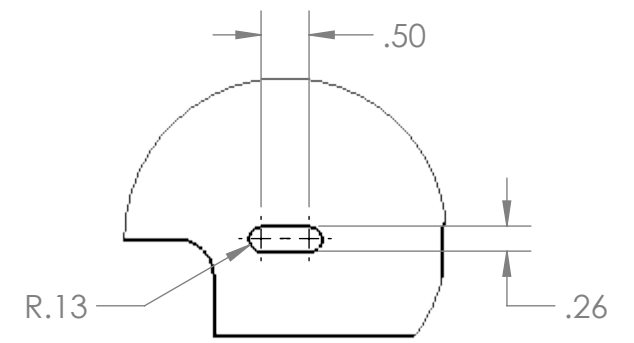
B

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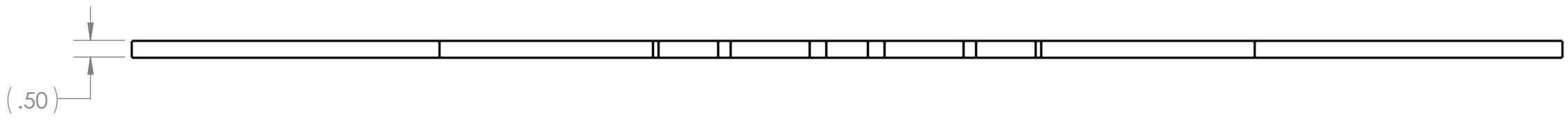
A




DETAIL B  
SCALE 1 : 2  
TYPICAL 4 PLACES

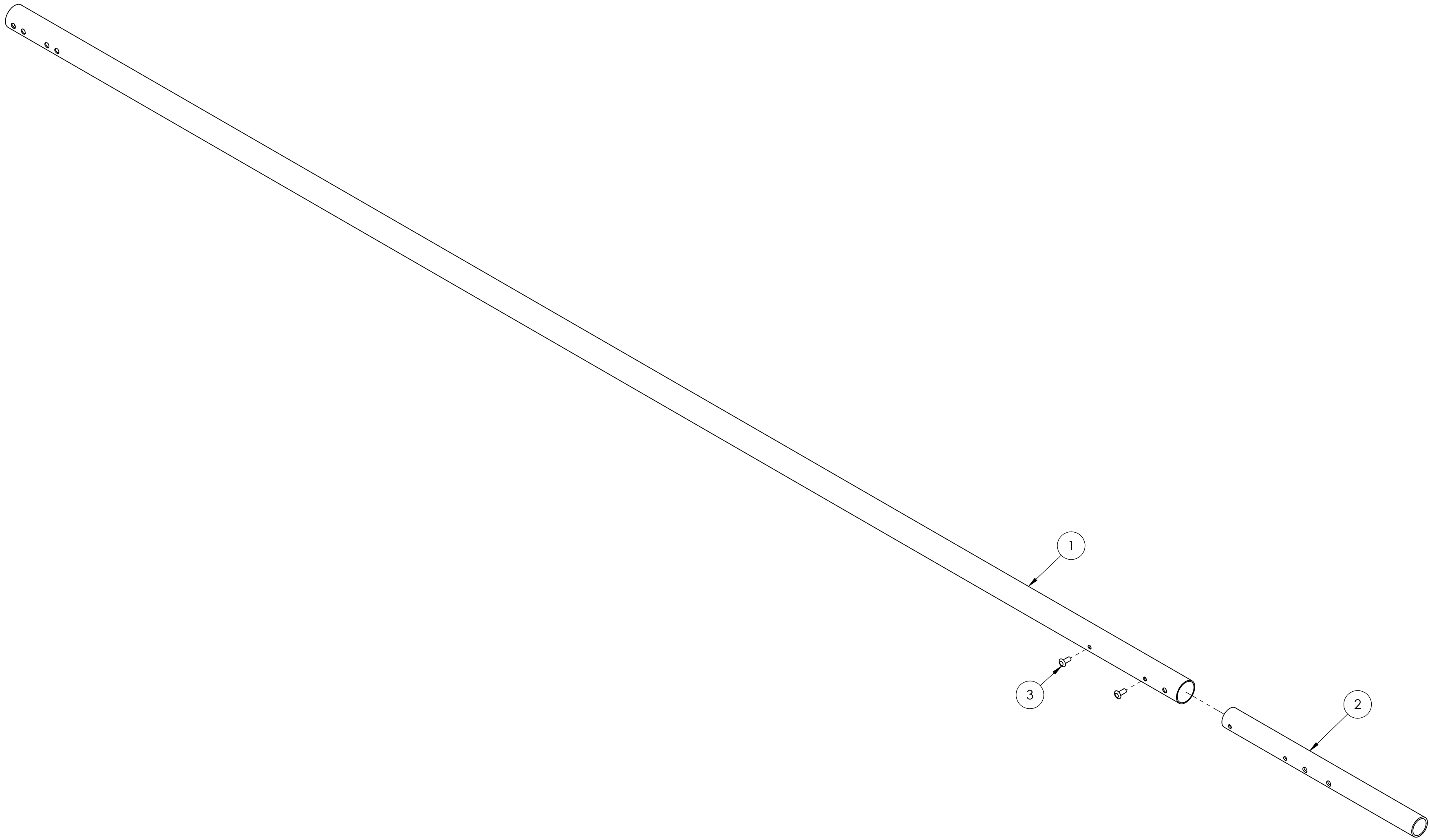


DETAIL A  
SCALE 1 : 2  
TYPICAL 4 PLACES



UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .01 THREE PLACE DECIMAL ± .005  <b>MATERIAL/FINISH:</b> 1/2" HDPE, red with matte finish  DO NOT SCALE DRAWING	VEND	NAME	DATE		
	DRAWN	DF	10/2/2024		
	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.				TITLE:
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.				Rib, Red  SIZE DWG. NO. REV <b>C</b> GE-25214 SCALE: 1:4 SHEET 1 OF 1





ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25216	Net Tube, Outer	1
2	GE-25217	Net Tube, Inner	1
3	rivet_.1875_.126-.25	3/16" Rivet, .126-.25 Grip Range	2

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL  $\pm 1/2$   
 ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
 TWO PLACE DECIMAL  $\pm .50$

**MATERIAL/FINISH:**

DO NOT SCALE DRAWING

FIELD	NAME	DATE
DRAWN	JO	12/16/2024

**PROPRIETARY AND CONFIDENTIAL**  
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF **FIRST**. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF **FIRST** IS PROHIBITED.

**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.



TITLE:  
**Net Tube Assembly**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25215	

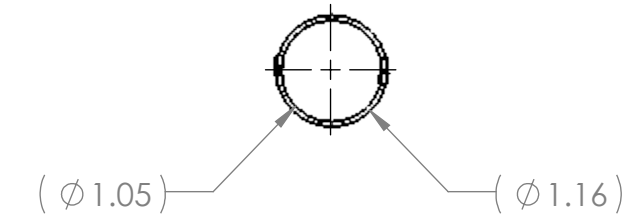
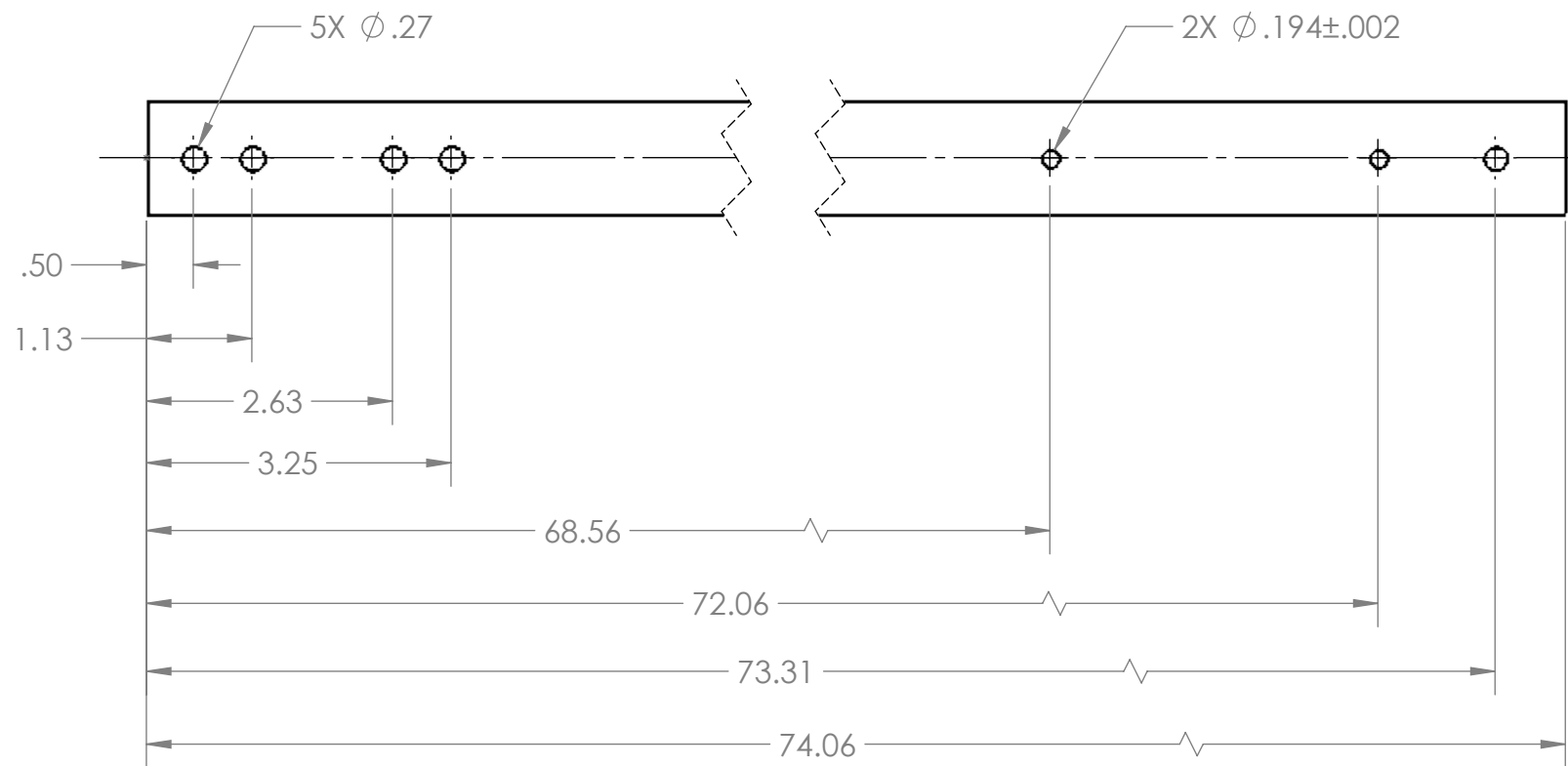
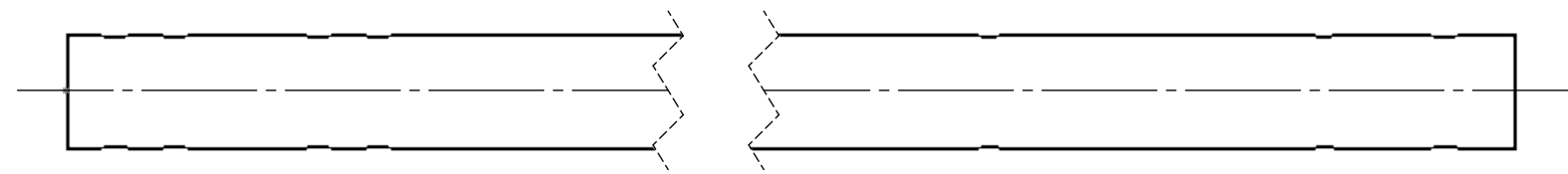
SCALE: 1:3.5 SHEET 1 OF 1



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UNLESS OTHERWISE SPECIFIED:	VEND	NAME	DATE	 
	DRAWN	DF	10/2/2024	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .005$	<b>PROPRIETARY AND CONFIDENTIAL</b>			TITLE:
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.			<b>Net Tube, Outer</b>
<b>MATERIAL/FINISH:</b>	1" EMT Conduit, Galvanized			SIZE <b>C</b>
<b>COMMENTS:</b>	REMOVE ALL BURRS AND SHARP EDGES.			DWG. NO. <b>GE-25216</b>
DO NOT SCALE DRAWING				REV 
SCALE: 1:2				SHEET 1 OF 1

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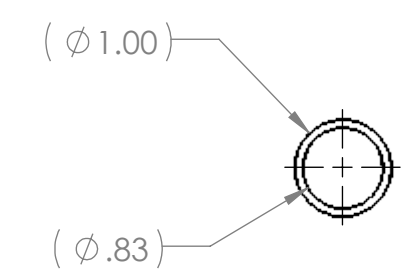
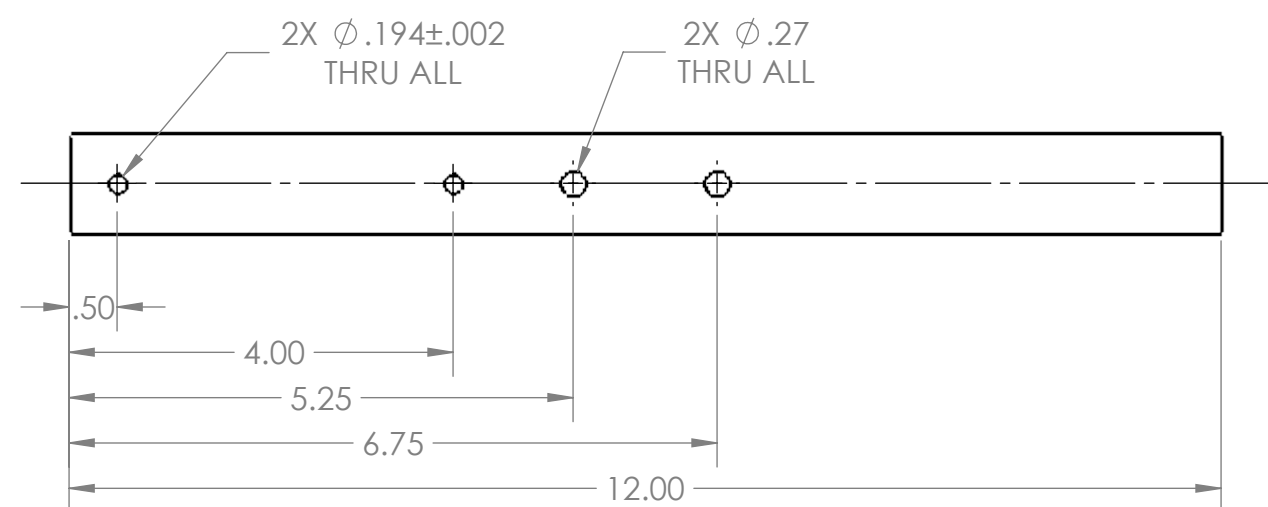
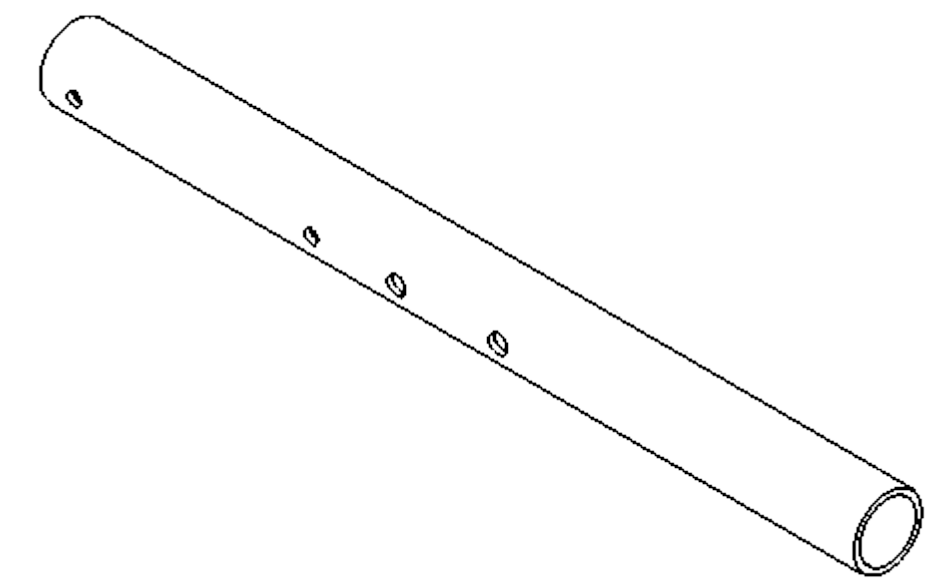
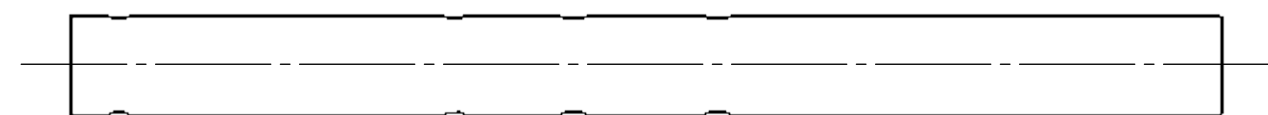
C



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A

A



UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .005$  <b>MATERIAL/FINISH:</b> 1" OD x 0.083" Wall x 0.834" ID Carbon Steel Round Tube  DO NOT SCALE DRAWING	VEND	NAME	DATE	 
	DRAWN	DF	10/2/2024	
<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.				TITLE: <b>Net Tube, Inner</b>
<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		SIZE	DWG. NO.	REV
		<b>C</b>	GE-25217	
		SCALE: 1:2	SHEET 1 OF 1	

4

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2

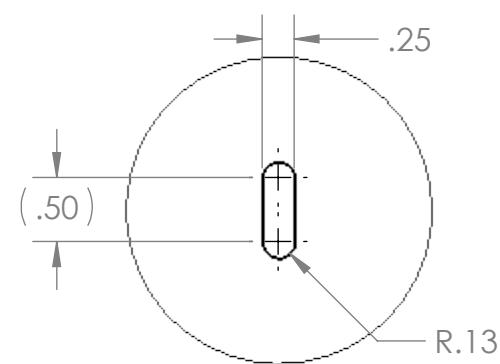
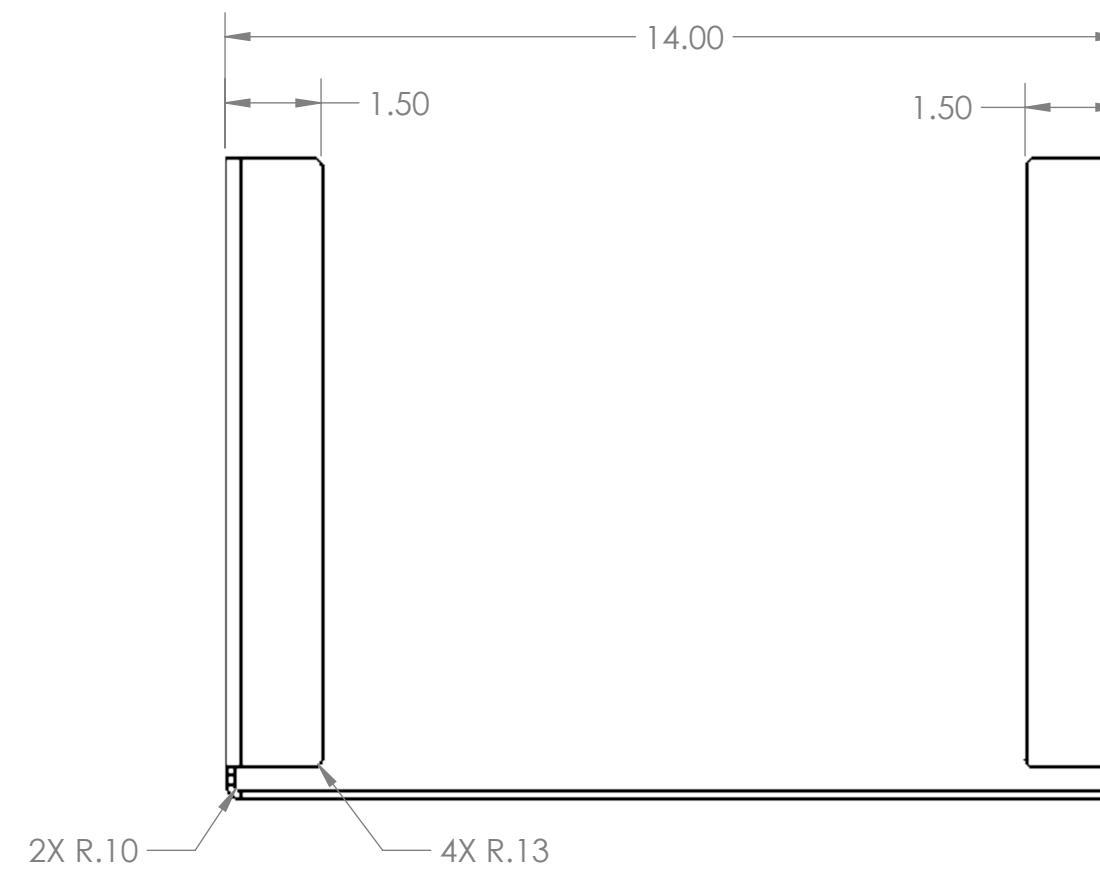
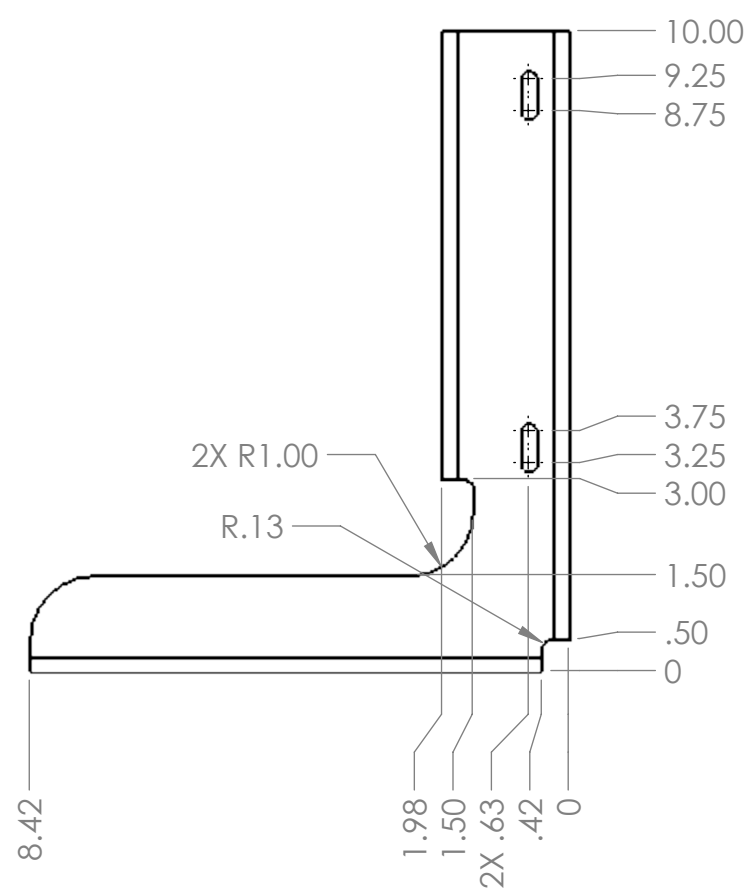
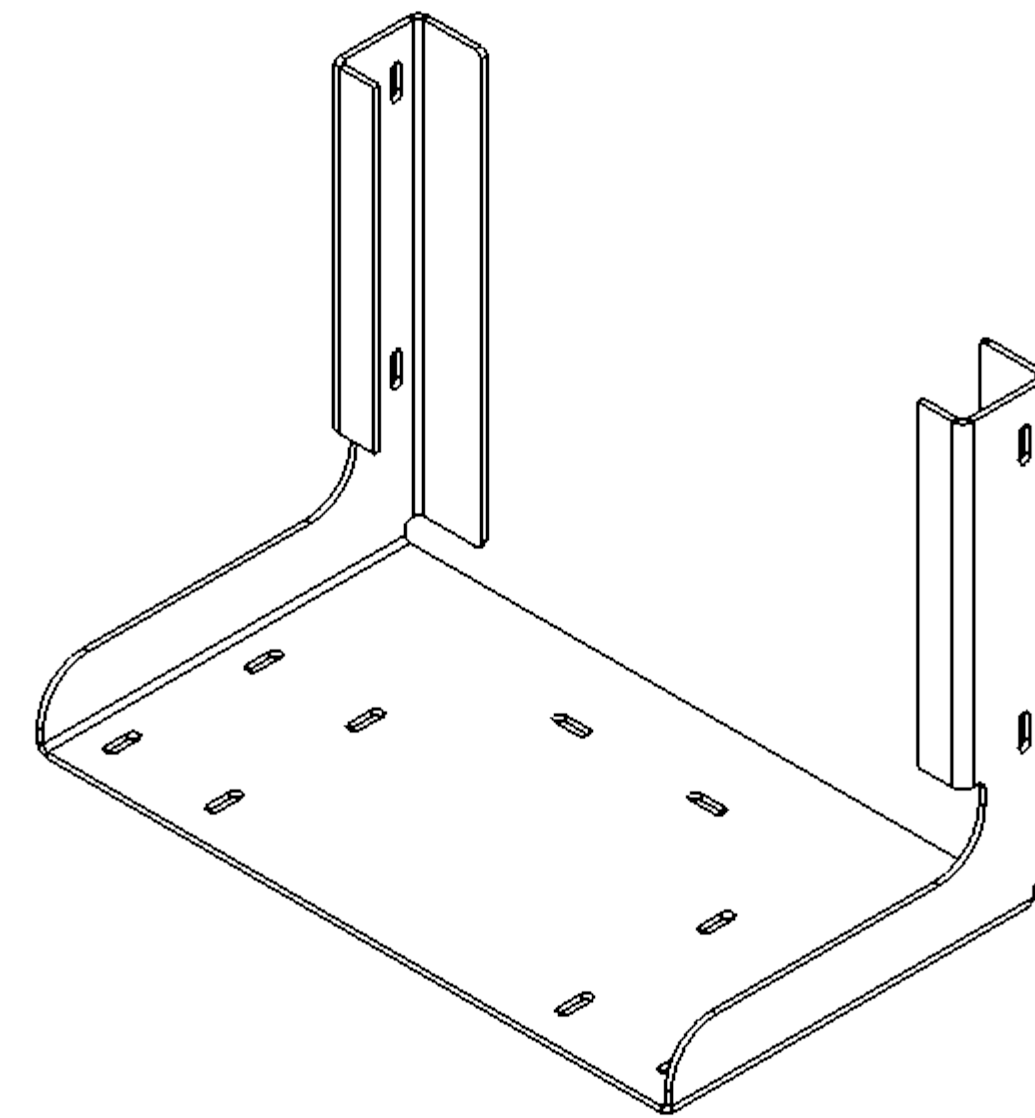
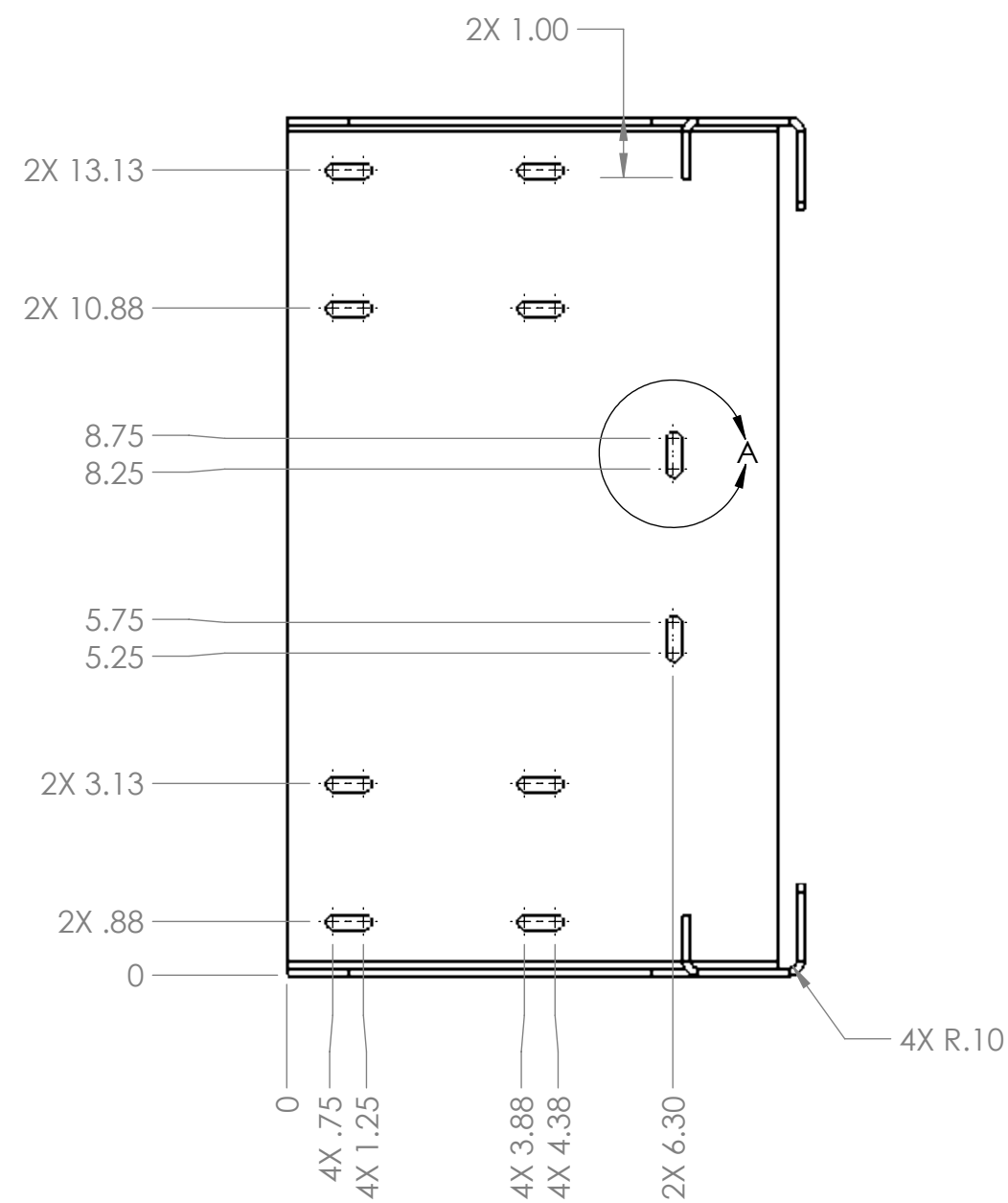
1

4



3

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1



DETAIL A  
SCALE 2 : 3  
TYP. 14 PLACES

UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .02$ THREE PLACE DECIMAL $\pm .010$  <b>MATERIAL/FINISH:</b> 8 ga. 5052 Aluminum Sheet  DO NOT SCALE DRAWING	BEND	NAME	DATE	 
	DRAWN	DF	10/3/2024	
<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.				TITLE:
				Brace, Barge End
SIZE		DWG. NO.	REV	
<b>C</b>		GE-25218		
SCALE: 1:3			SHEET 1 OF 1	

4

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A

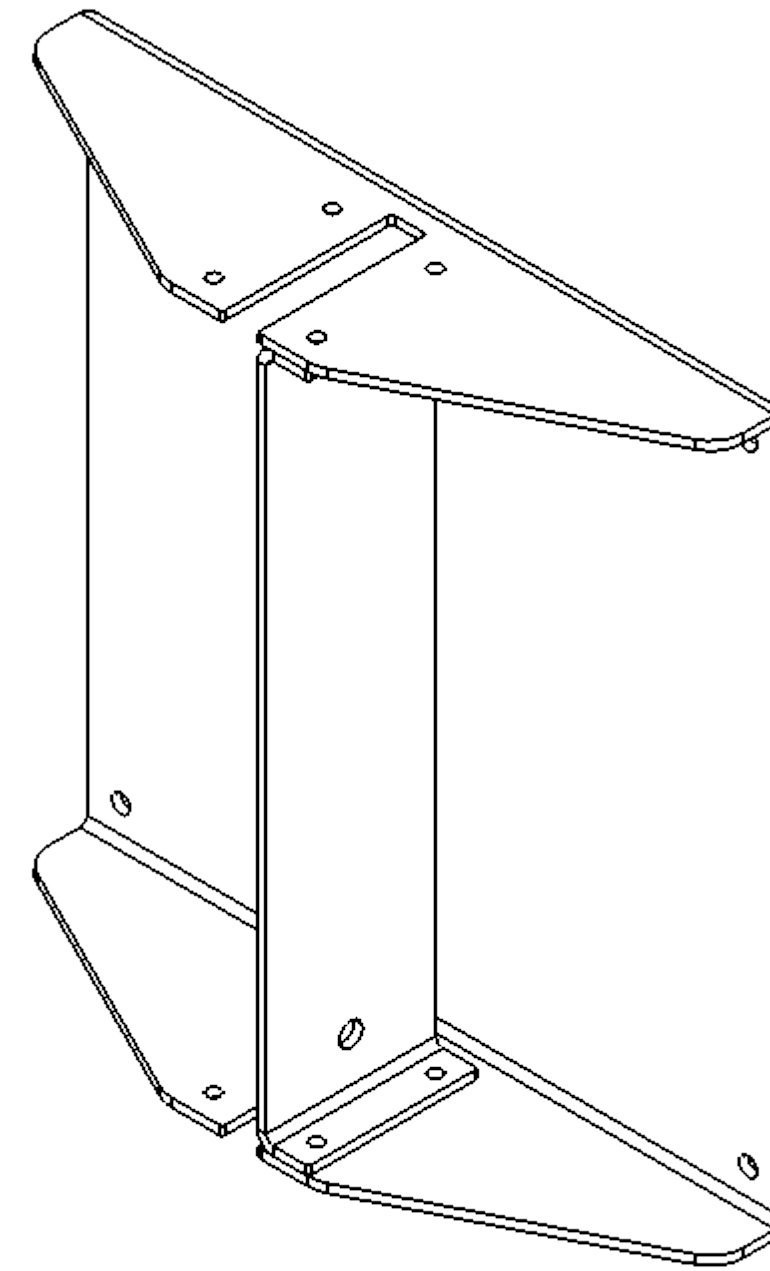
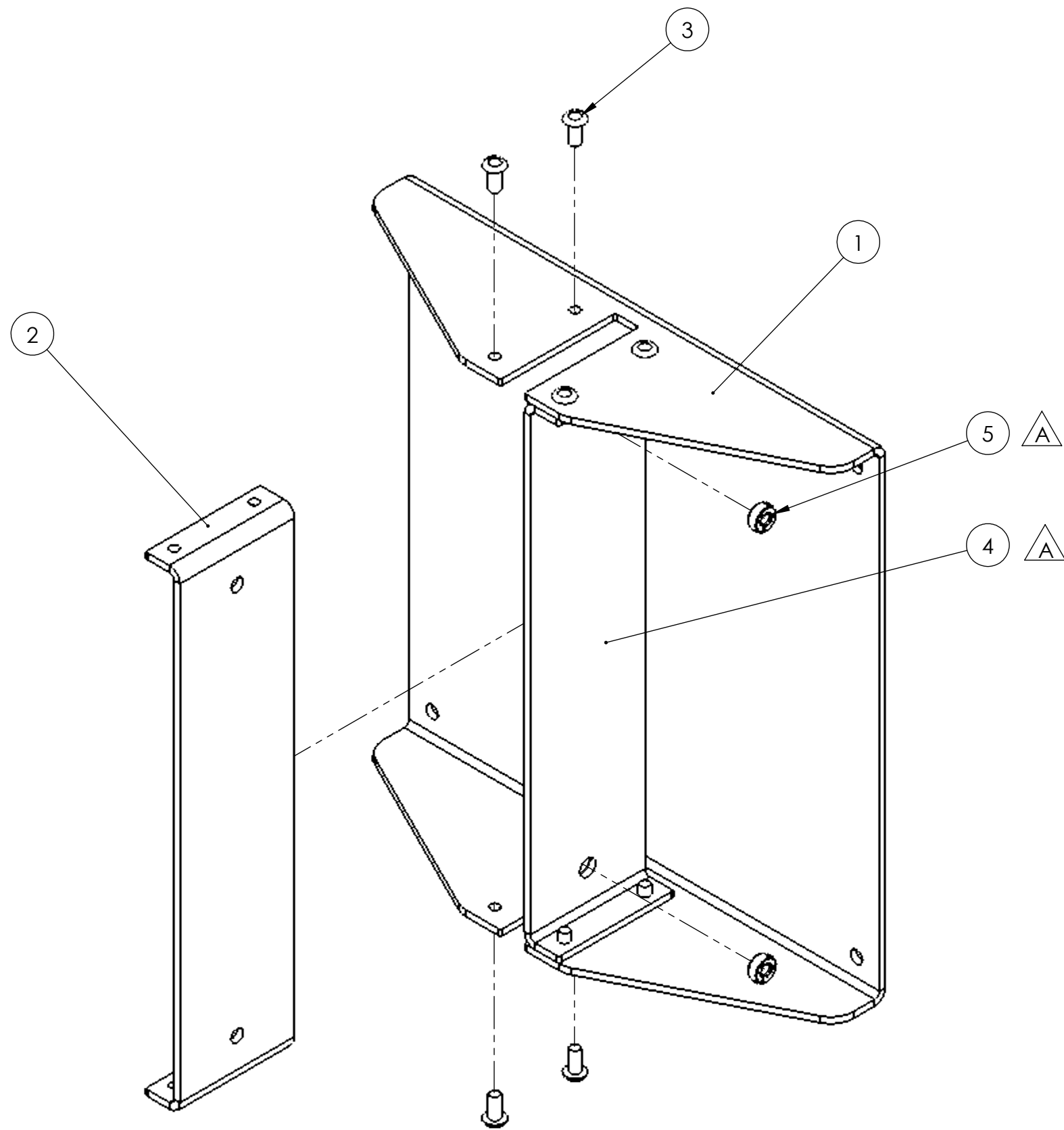
4

3



2

1

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
C2, 4-B3	A	Added Items 4 and 5. Added detail views of Item 4 to Sheet 4.	10/10/2024	DAF



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25219-01	Mount Face	1
2	GE-25219-02	Bracket	1
3	rivet_.1875_.126-.25	3/16" Rivet, .126-.25 Grip Range	8
4	GE-25219-03	Bracket with PEM nuts	1
5	pem_clinchnut_.25_20_.054	1/4-20 self-clinching nut, .054 shank	2

UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.02 THREE PLACE DECIMAL ±.010  <b>MATERIAL/FINISH:</b> 8 ga. 5052 Aluminum Sheet  <b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.  DO NOT SCALE DRAWING	BEND	NAME	DATE	 
	DRAWN	DF	10/3/2024	
<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.				TITLE:
				Holder, April Tag
SIZE		DWG. NO.	REV	
C		GE-25219	A	
SCALE: 1:2		SHEET 1 OF 4		

4

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1

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C

C

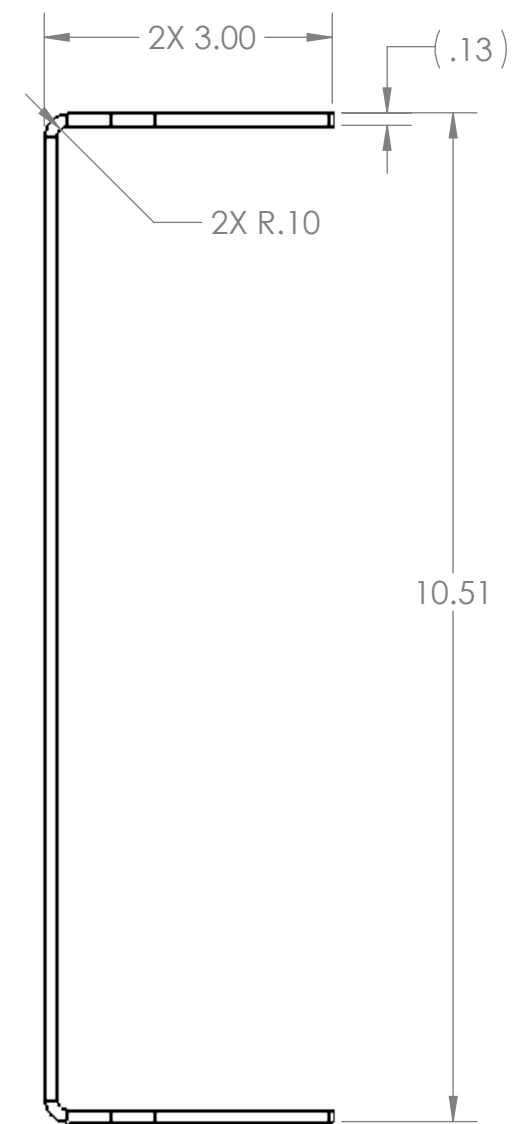
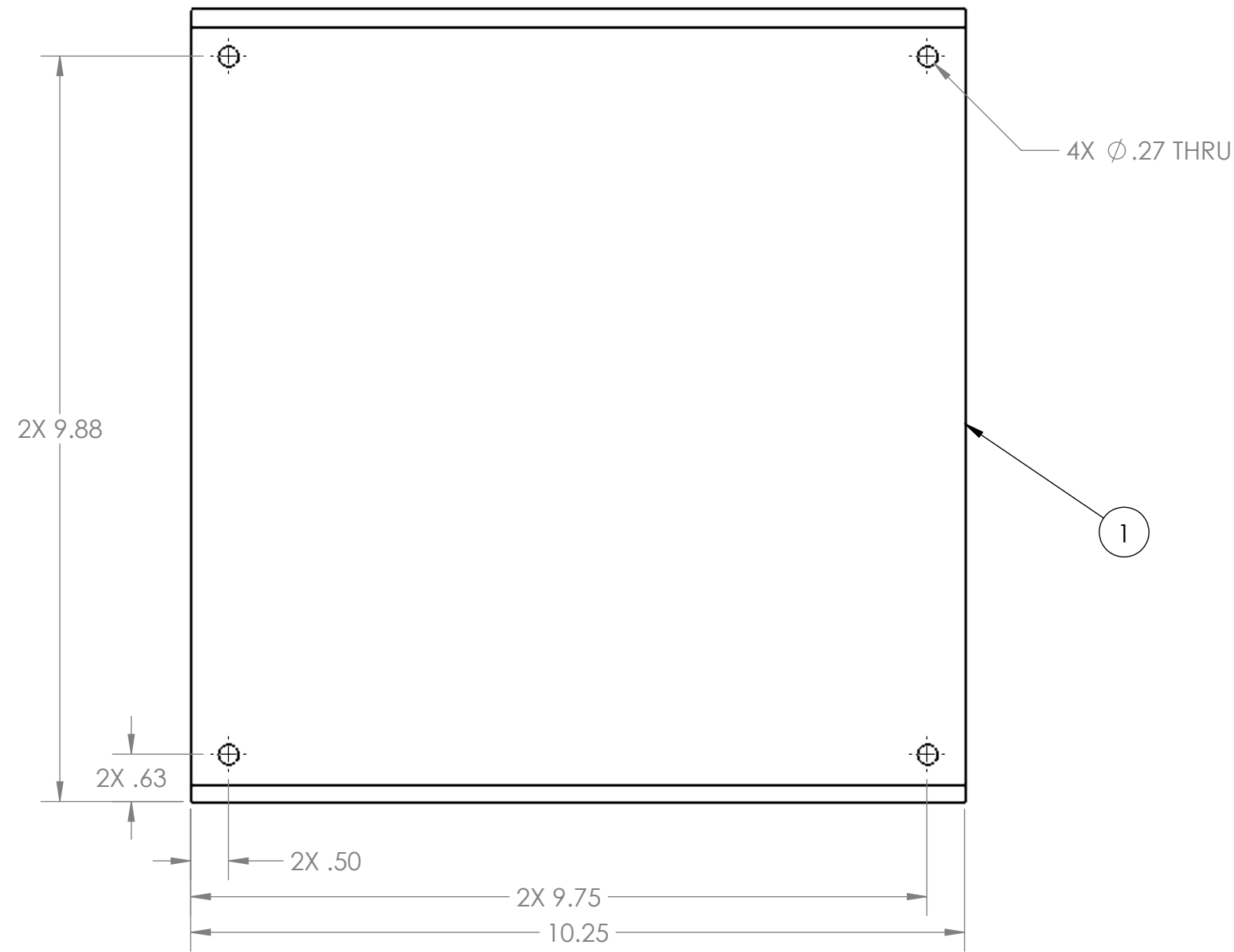
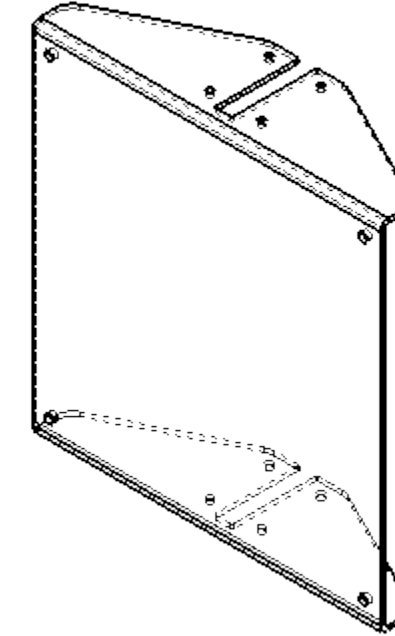
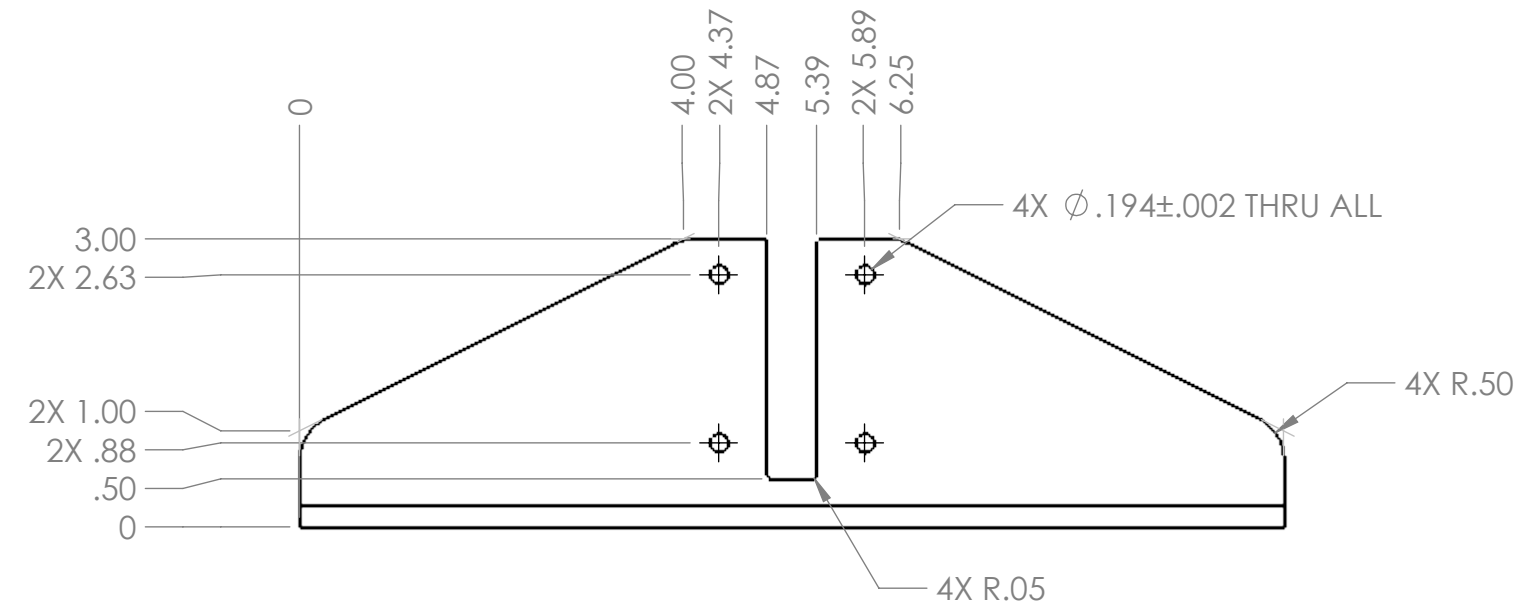
B

B

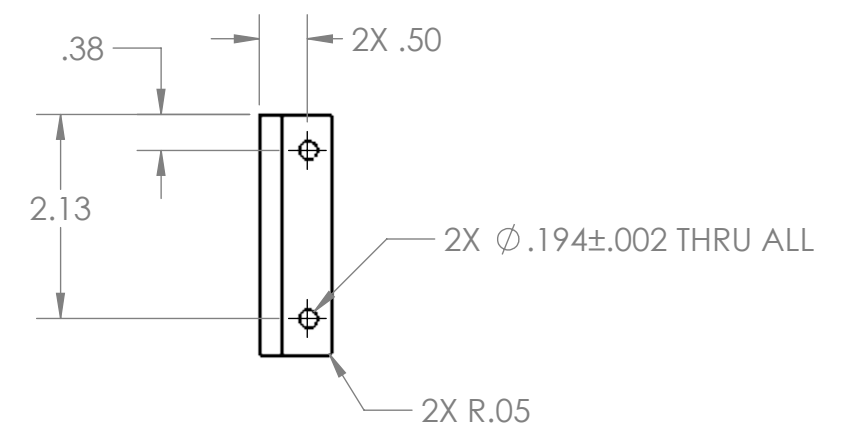
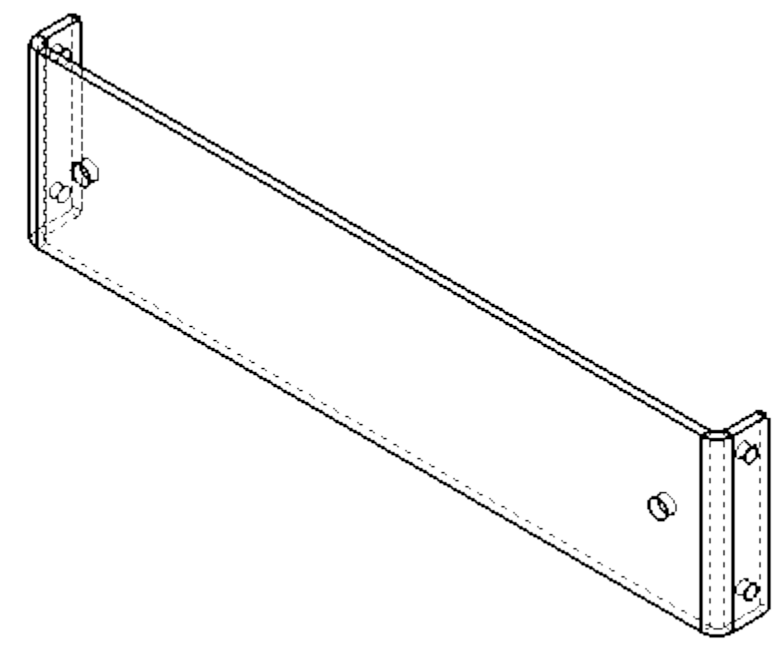
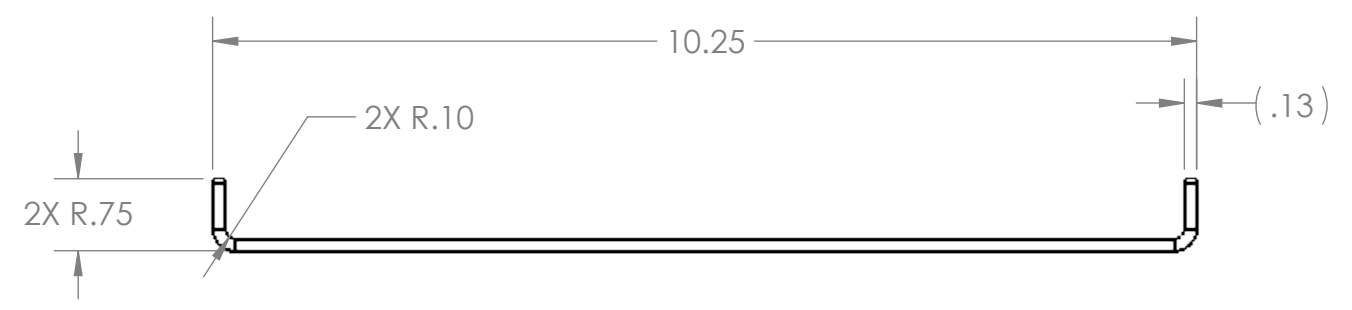
A

A





UNLESS OTHERWISE SPECIFIED:	BEND	NAME	DATE	TITLE: <b>Mount Face</b>
	DRAWN	DF	10/3/2024	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm$ 1/16 ANGULAR: MACH $\pm$ 1° BEND $\pm$ 1° TWO PLACE DECIMAL $\pm$ .02 THREE PLACE DECIMAL $\pm$ .010	<b>PROPRIETARY AND CONFIDENTIAL</b>			SIZE <b>C</b>
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			
<b>MATERIAL/FINISH:</b> 8 ga. 5052 Aluminum Sheet	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			REV <b>A</b>
DO NOT SCALE DRAWING	SCALE: 1:2		SHEET 2 OF 4	



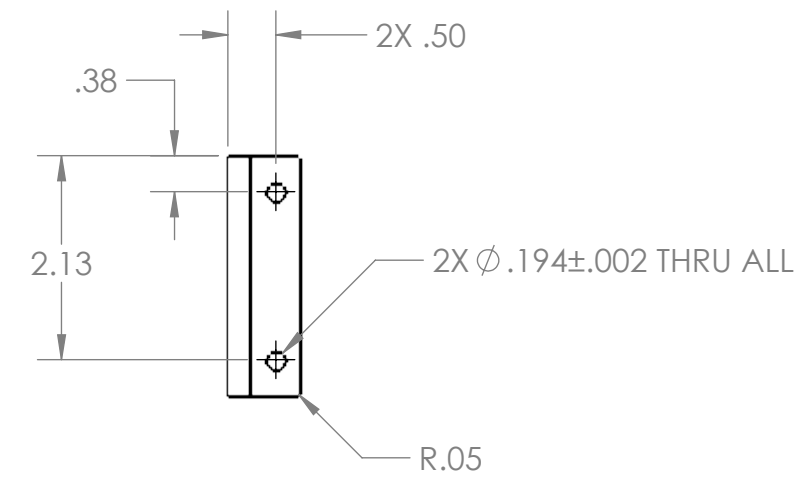
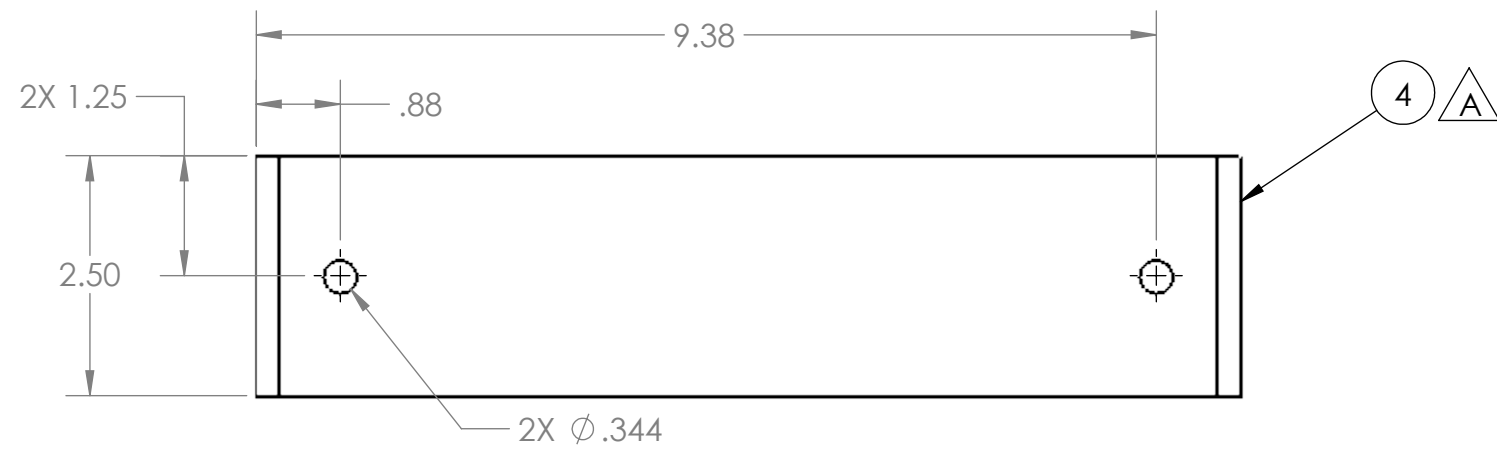
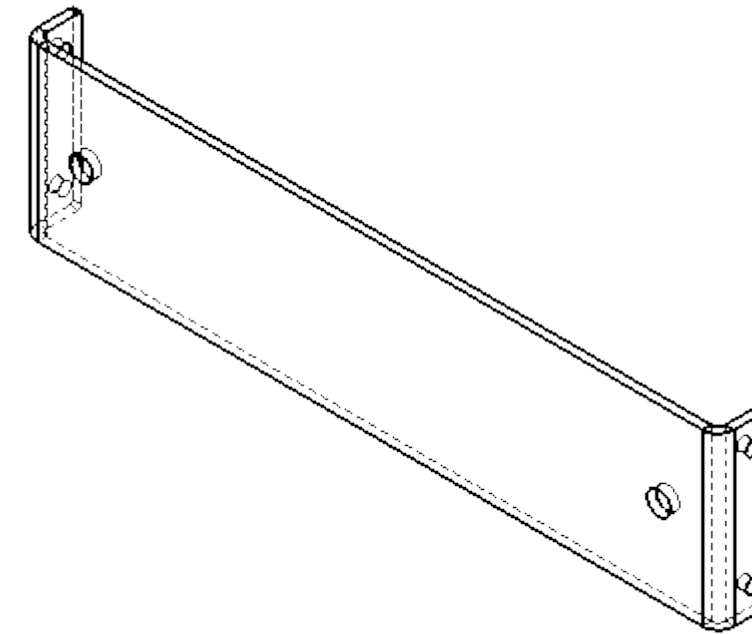
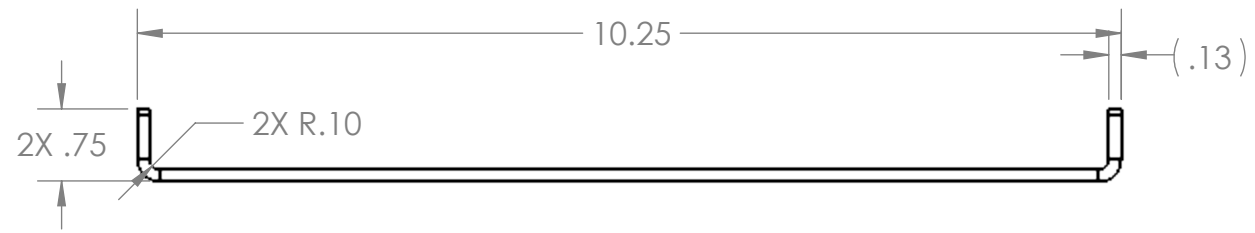
UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.02 THREE PLACE DECIMAL ±.010  <b>MATERIAL/FINISH:</b> 8 ga. 5052 Aluminum Sheet  <b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.  DO NOT SCALE DRAWING	BEND	NAME	DATE	TITLE: <h1>Bracket</h1>
	DRAWN	DF	10/3/2024	
	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			SIZE
				DWG. NO.
				REV
				<b>C</b> GE-25219-02 <b>A</b>
				SCALE: 1:1 SHEET 3 OF 4

4

3

2

1



UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.02 THREE PLACE DECIMAL ±.010  <b>MATERIAL/FINISH:</b> 8 ga. 5052 Aluminum Sheet  DO NOT SCALE DRAWING	BEND	NAME	DATE	TITLE: <b>Bracket with PEM nuts</b>
	DRAWN	DF	10/3/2024	
	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			SIZE
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			DWG. NO. <b>C</b> GE-25219-03
				REV <b>A</b>
				SCALE: 1:1
				SHEET 4 OF 4

4

3

2

1

D

D

C

C

B

B

A

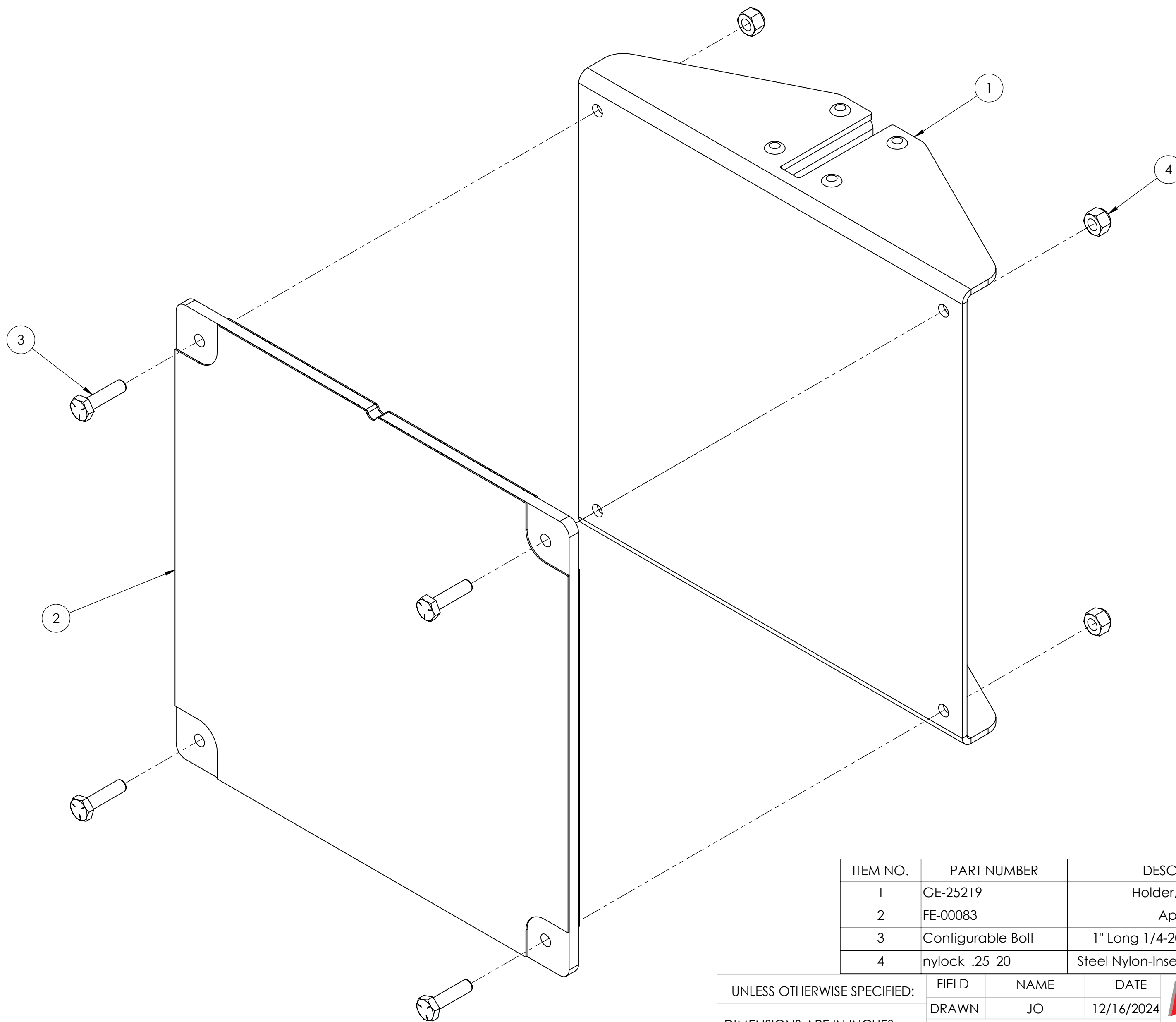
A

4

3

2



1



Notes:

1. AprilTag ID#'s 4, 5, 14, 15 will be used in this assembly.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25219	Holder, April Tag	1
2	FE-00083	AprilTag	1
3	Configurable Bolt	1" Long 1/4-20 Hex Head Bolt	4
4	nylock_.25_20	Steel Nylon-Insert Locknut, 1/4"-20	4

UNLESS OTHERWISE SPECIFIED:		FIELD	NAME	DATE	 
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/2$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .50$		DRAWN	JO	12/16/2024	
<b>MATERIAL/FINISH:</b>		<b>PROPRIETARY AND CONFIDENTIAL</b>			TITLE:
		THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.			<b>April Tag Assembly, Truss</b>
<b>COMMENTS:</b>		REMOVE ALL BURRS AND SHARP EDGES.			SIZE DWG. NO. REV <b>C</b> GE-25220
DO NOT SCALE DRAWING					SCALE: 2:3 SHEET 1 OF 1

4

3

2

1

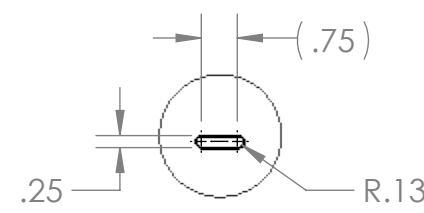
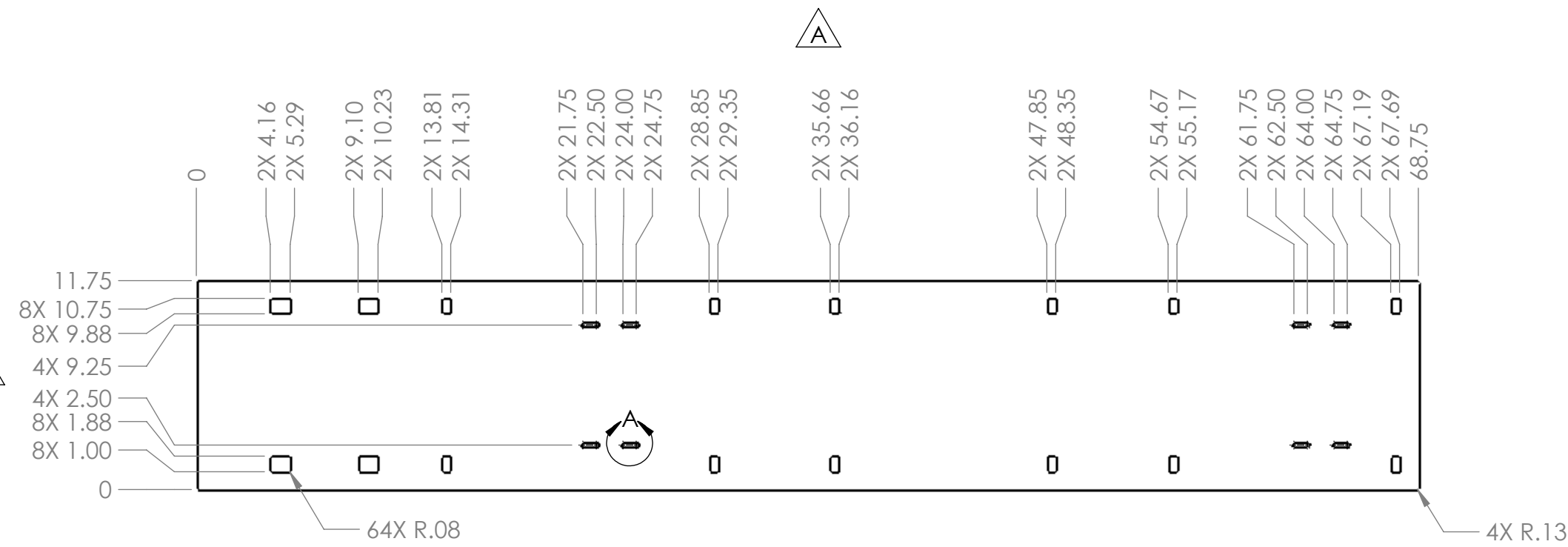
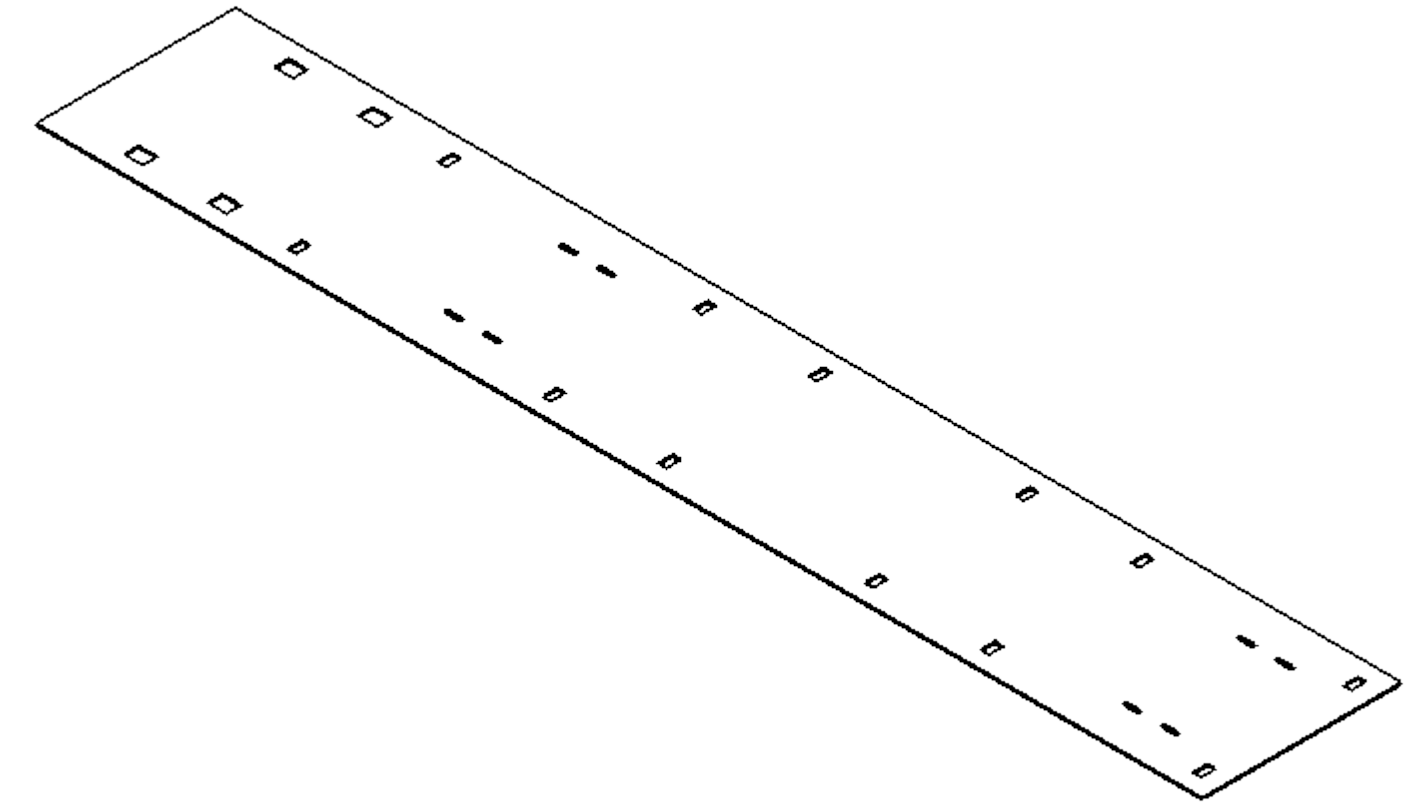
D

C



B

A

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
B4, C3	A	Replaced 16X Ø.25 THRU holes with rectangular slots. All dimensions updated accordingly.	10/15/2024	DF



DETAIL A  
SCALE 1 : 4  
TYP. 8 PLACES

UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .01 THREE PLACE DECIMAL ± .005  <b>MATERIAL/FINISH:</b> 1/8" HDPE, Natural, Smooth  <b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.  DO NOT SCALE DRAWING	VEND	NAME	DATE	 
	DRAWN	DF	10/4/2024	
<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.				TITLE:
				Top Diffuser
SIZE		DWG. NO.	REV	
C		GE-25221	A	
SCALE: 1:8			SHEET 1 OF 1	



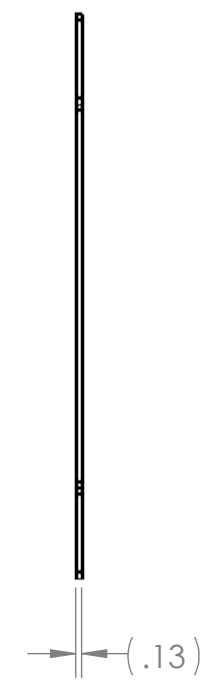
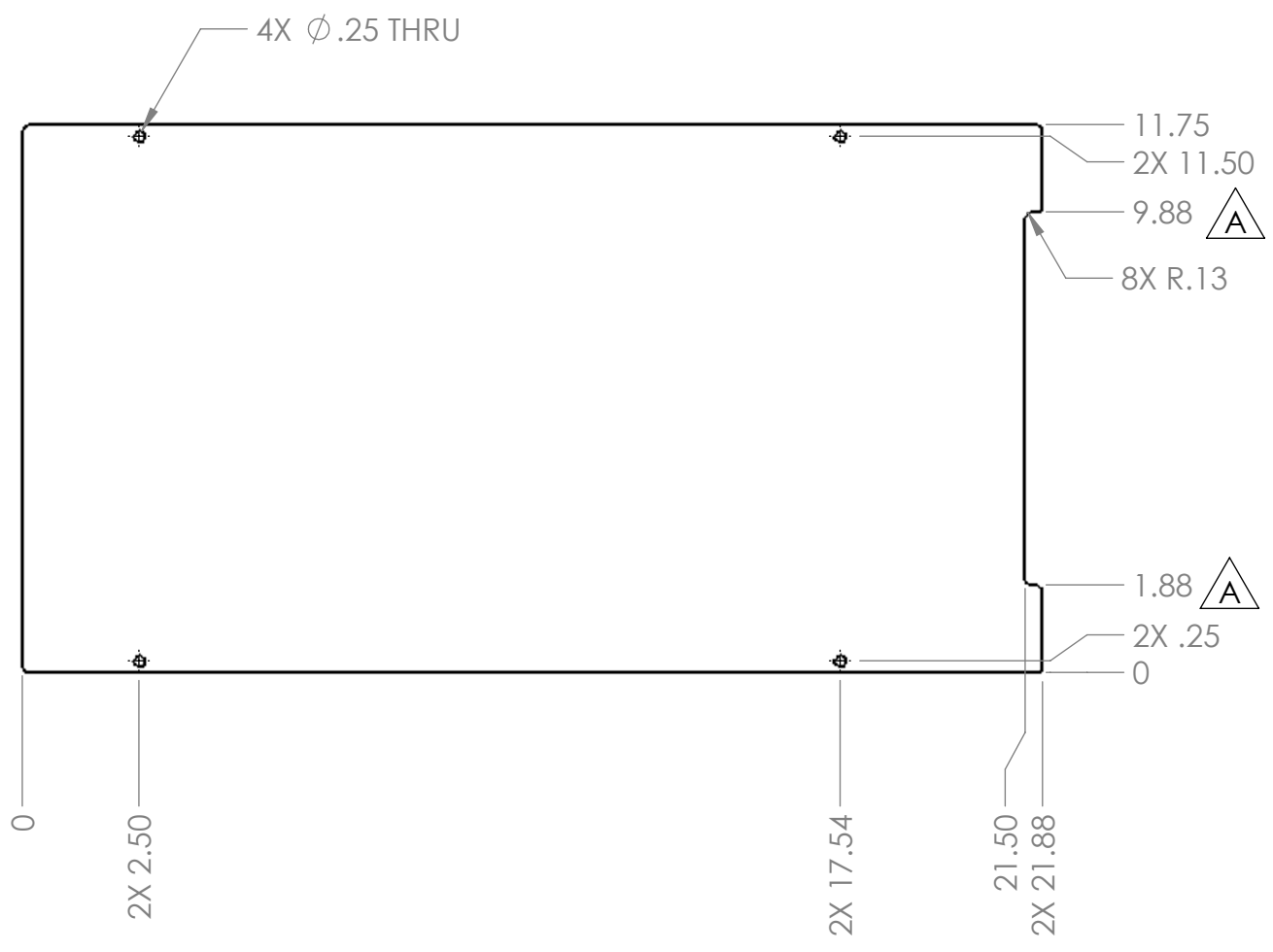
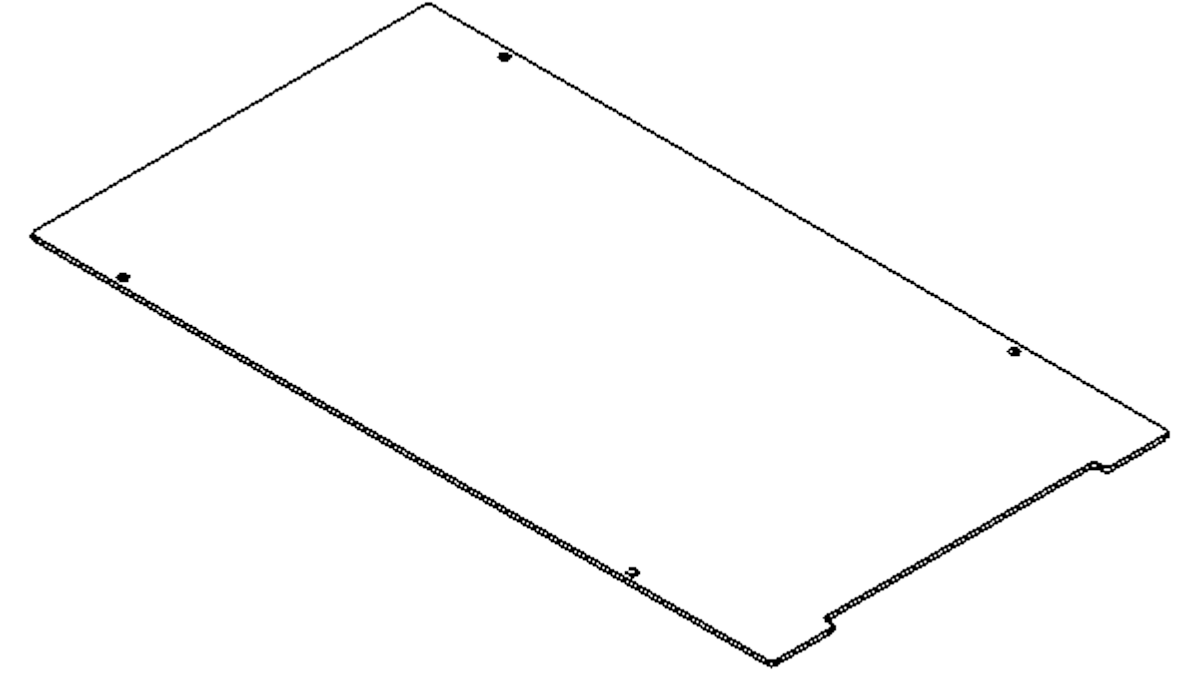
4



3

2

1

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
B3, C3	A	9.88 was 9.25, 1.88 was 2.5	10/15/2024	DAF



UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm$ 1/16 ANGULAR: MACH $\pm$ 1° BEND $\pm$ 1° TWO PLACE DECIMAL $\pm$ .01 THREE PLACE DECIMAL $\pm$ .005  <b>MATERIAL/FINISH:</b> 1/8" HDPE, Natural, Smooth  <b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.  DO NOT SCALE DRAWING	VEND	NAME	DATE	 
	DRAWN	DF	10/4/2024	
<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.				TITLE:
				Side Diffuser 1
SIZE		DWG. NO.	REV	
<b>C</b>		GE-25222	<b>A</b>	
SCALE: 1:4			SHEET 1 OF 1	

4

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D

C

C

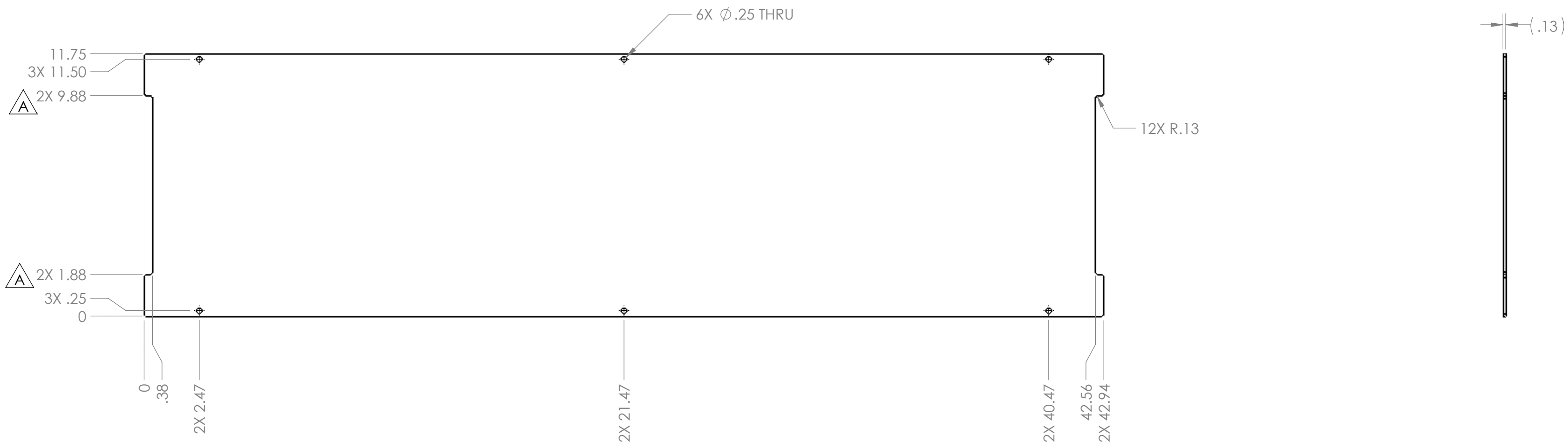
B



B

A

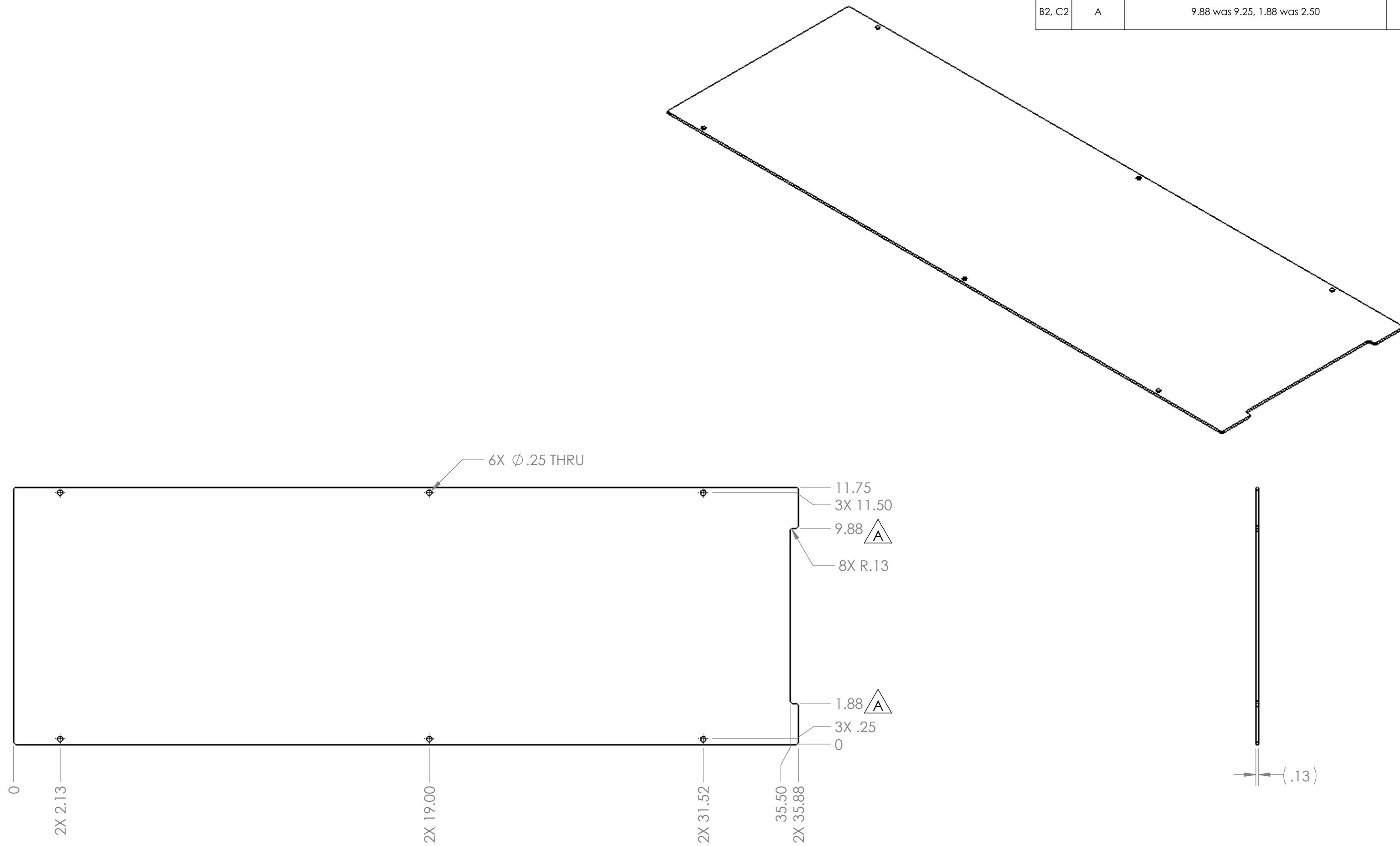
A

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
B4, C4	A	9.88 was 9.25, 1.88 was 2.5	10/15/2024	DF



UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .005$  <b>MATERIAL/FINISH:</b> 1/8" HDPE, Natural, Smooth  <b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.  DO NOT SCALE DRAWING	VEND	NAME	DATE	 
	DRAWN	DF	10/4/2024	
<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.				TITLE:
				Side Diffuser 2
SIZE		DWG. NO.	REV	
C		GE-25223	A	
SCALE: 1:4		SHEET 1 OF 1		

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
B2, C2	A	9.88 was 9.25, 1.88 was 2.50	10/15/2024	DF



UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ±1/16  
 ANGULAR: MACH ±1° BEND ±1°  
 TWO PLACE DECIMAL ±.01  
 THREE PLACE DECIMAL ±.005

**MATERIAL/FINISH:**  
 1/8" HDPE, Natural, Smooth

DO NOT SCALE DRAWING

VEND	NAME	DATE
DRAWN	DF	10/4/2024

**PROPRIETARY AND CONFIDENTIAL**  
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF **FIRST®**. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF **FIRST®** IS PROHIBITED.

**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.

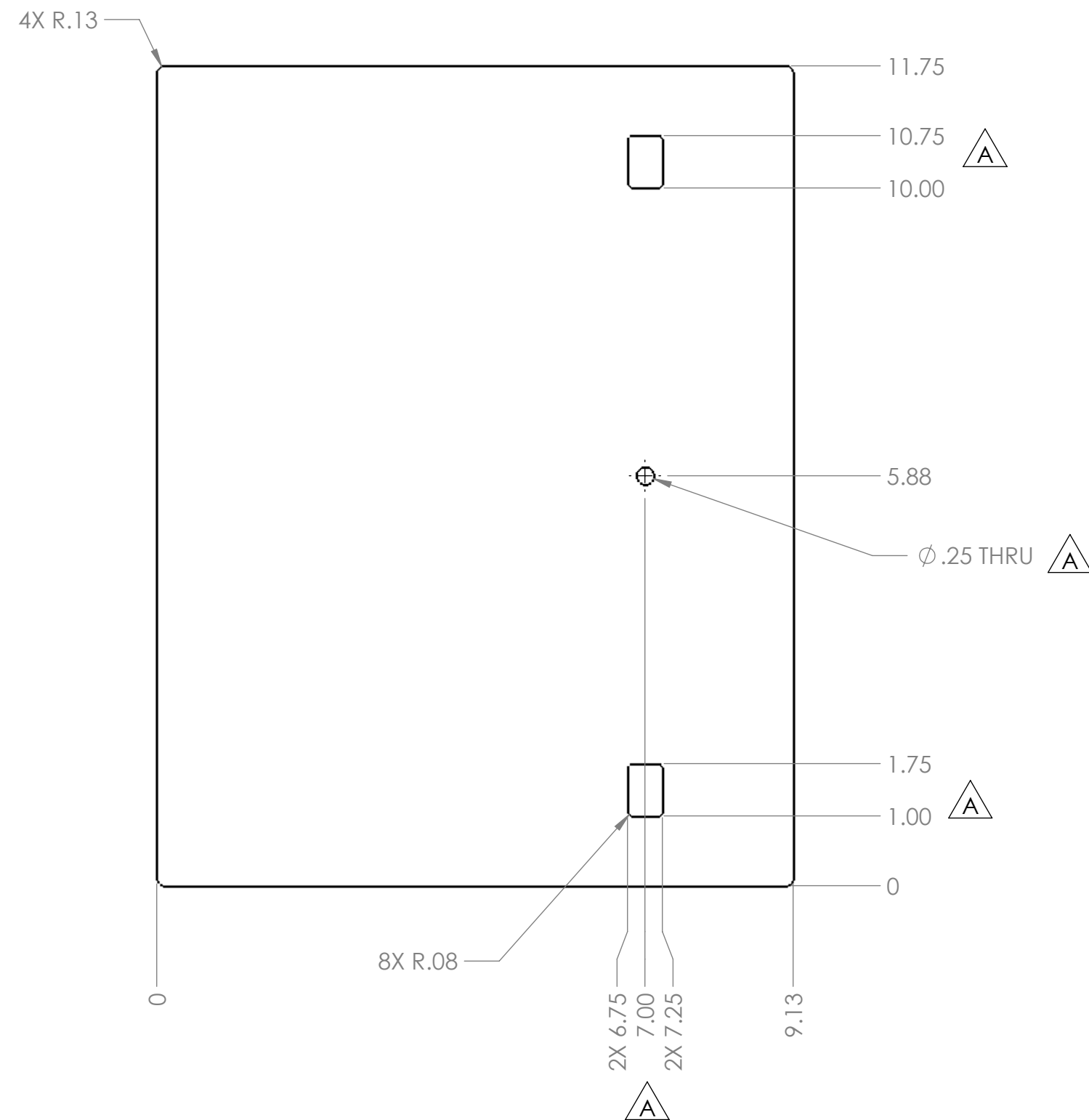
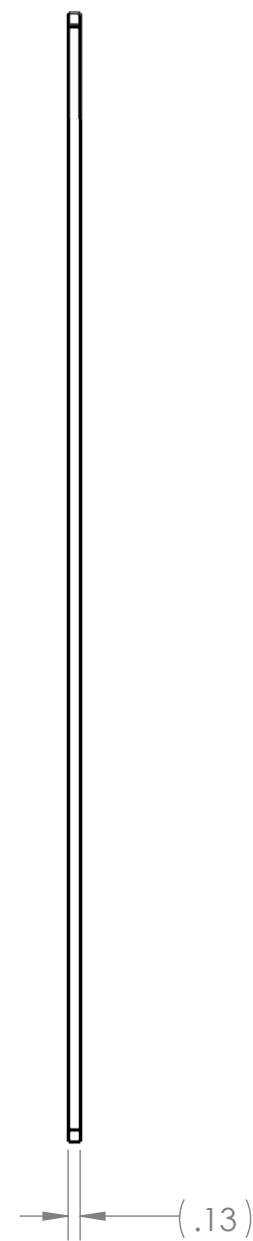
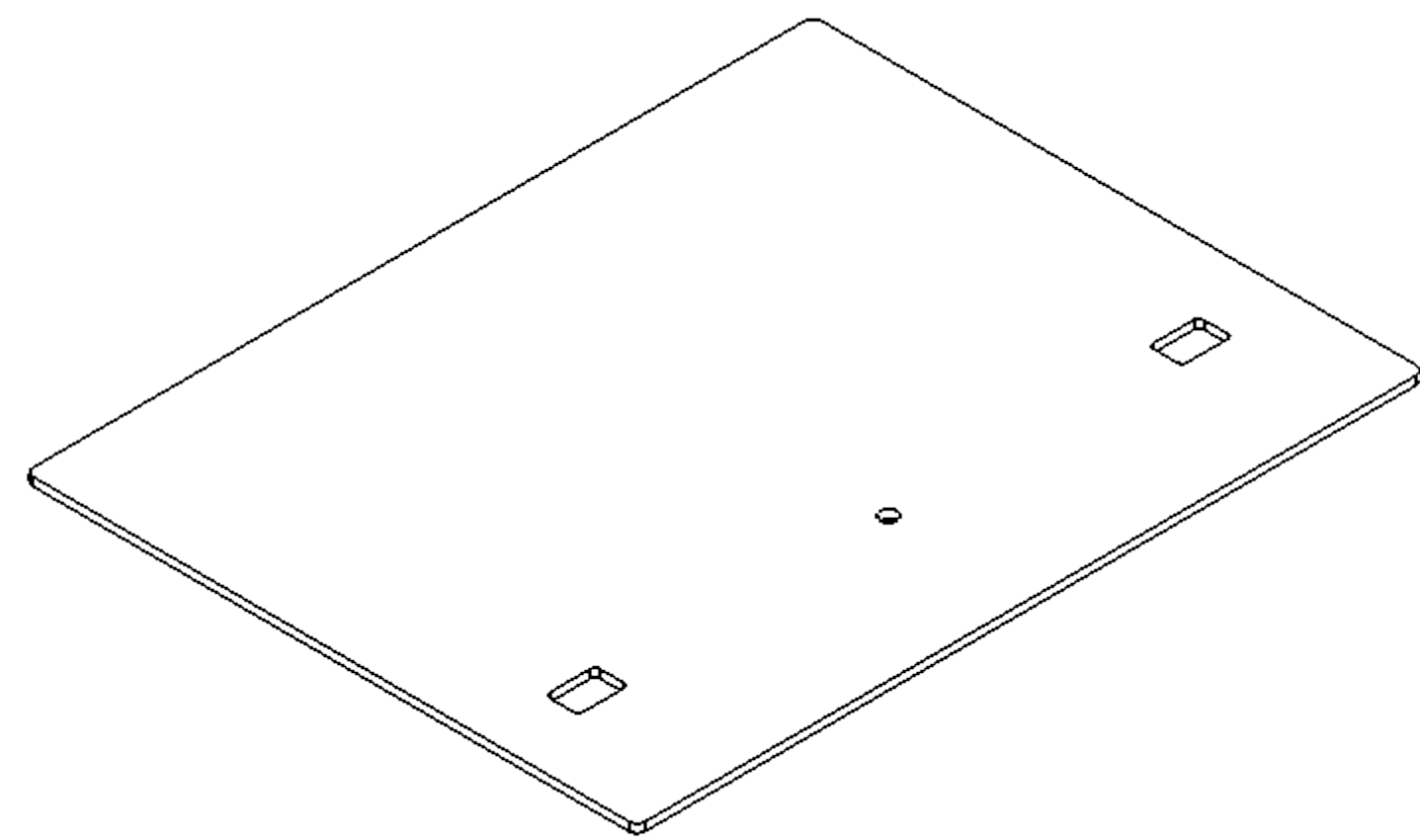




TITLE:  
**Side Diffuser 3**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25224	<b>A</b>

SCALE: 1:4 SHEET 1 OF 1

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
A3, B3, C3	A	Removed 2X $\phi$ .25 THRU holes, added two rectangular cut outs.	10/15/2024	DF



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .005$	VEND	NAME	DATE	 
	DRAWN	DF	10/4/2024	
<b>MATERIAL/FINISH:</b> 1/8" HDPE, Natural, Smooth	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.			TITLE: <b>Diffuser Top, Small</b>
DO NOT SCALE DRAWING	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		SIZE <b>C</b>	DWG. NO. <b>GE-25227</b>
			REV <b>A</b>	SCALE: 1:2
			SHEET 1 OF 1	

4

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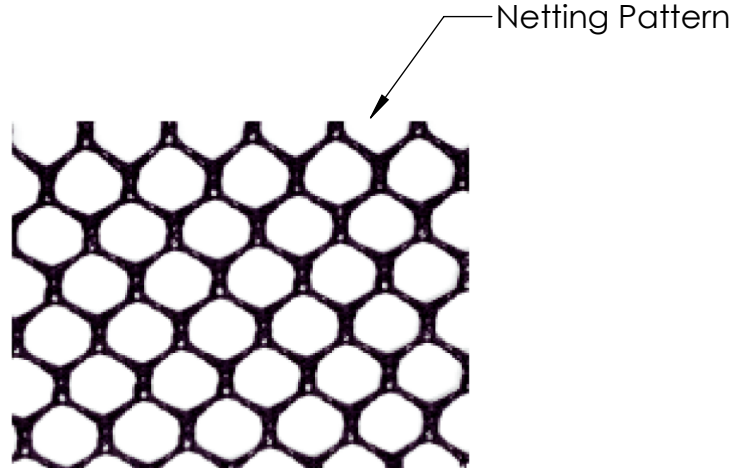
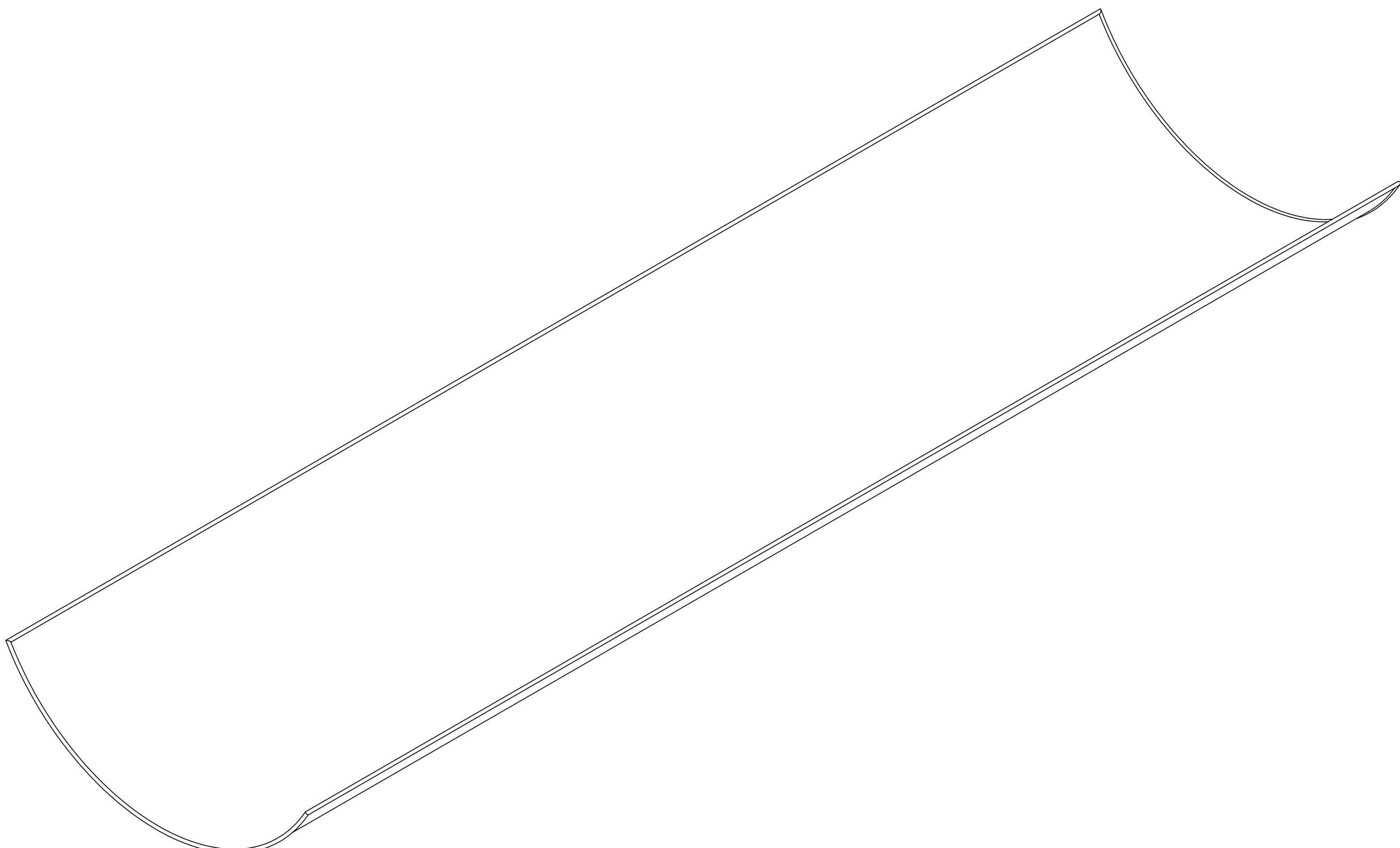
C

B

B



A

A



Vendor: All Sport Netting  
 Website: [www.allsportnetting.com](http://www.allsportnetting.com)  
 Size: 48" x 144"  
 Net Material: Knit Polyester, 1/4" mesh  
 Border: 3/8" Sewn Cord

**PRODUCT ALSO AVAILABLE AT ANDYMARK.COM (SUPPLIES LIMITED)**

UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/2$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .50$	FIELD	NAME	DATE	 
	DRAWN	JO	12/16/2024	
<b>MATERIAL/FINISH:</b>	<b>PROPRIETARY AND CONFIDENTIAL</b>			TITLE: <b>Net</b>
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			SIZE: <b>C</b> DWG. NO. <b>GE-25228</b> REV
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			SCALE: 1:8 SHEET 1 OF 1
DO NOT SCALE DRAWING				

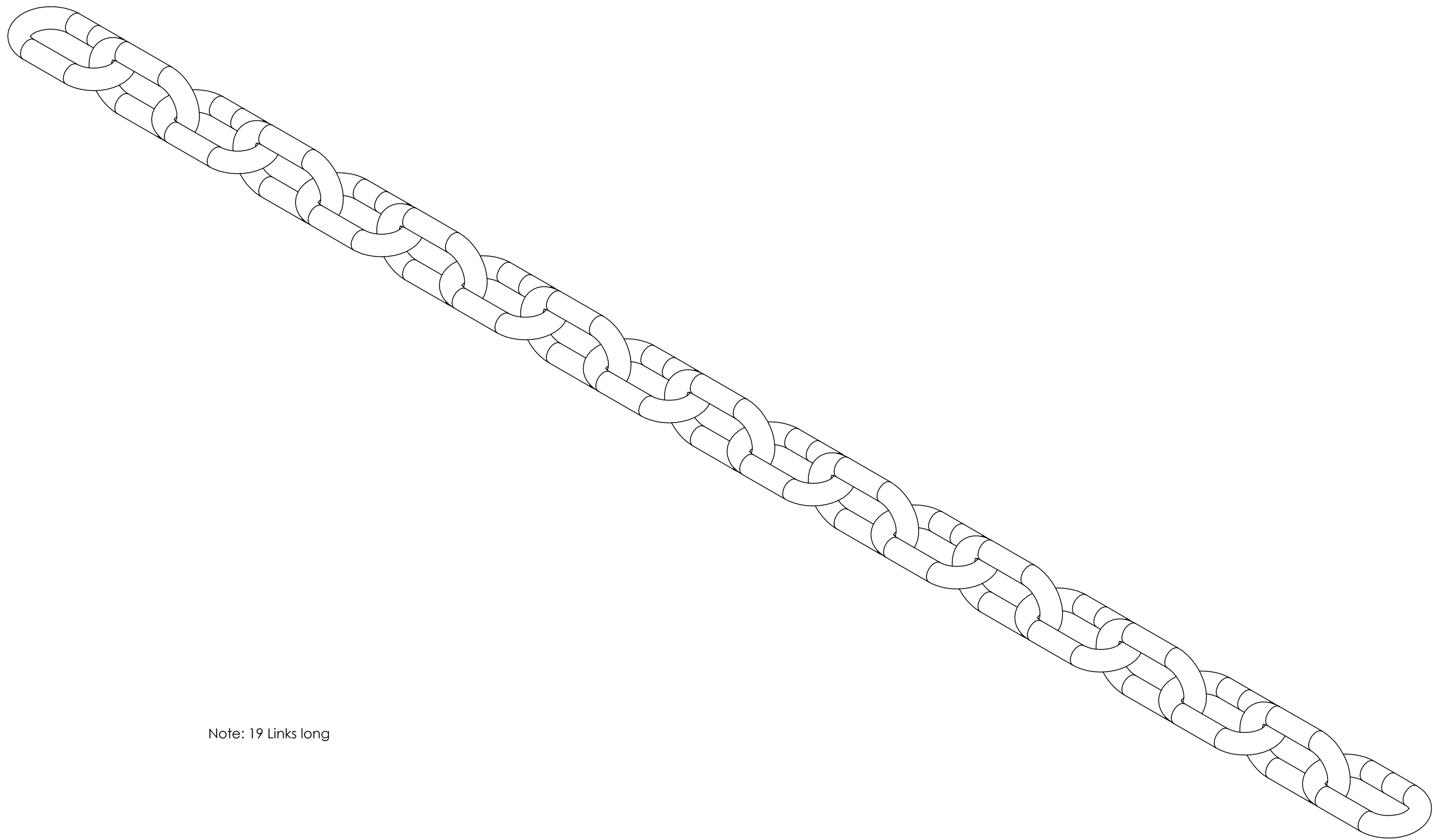
4

3



2

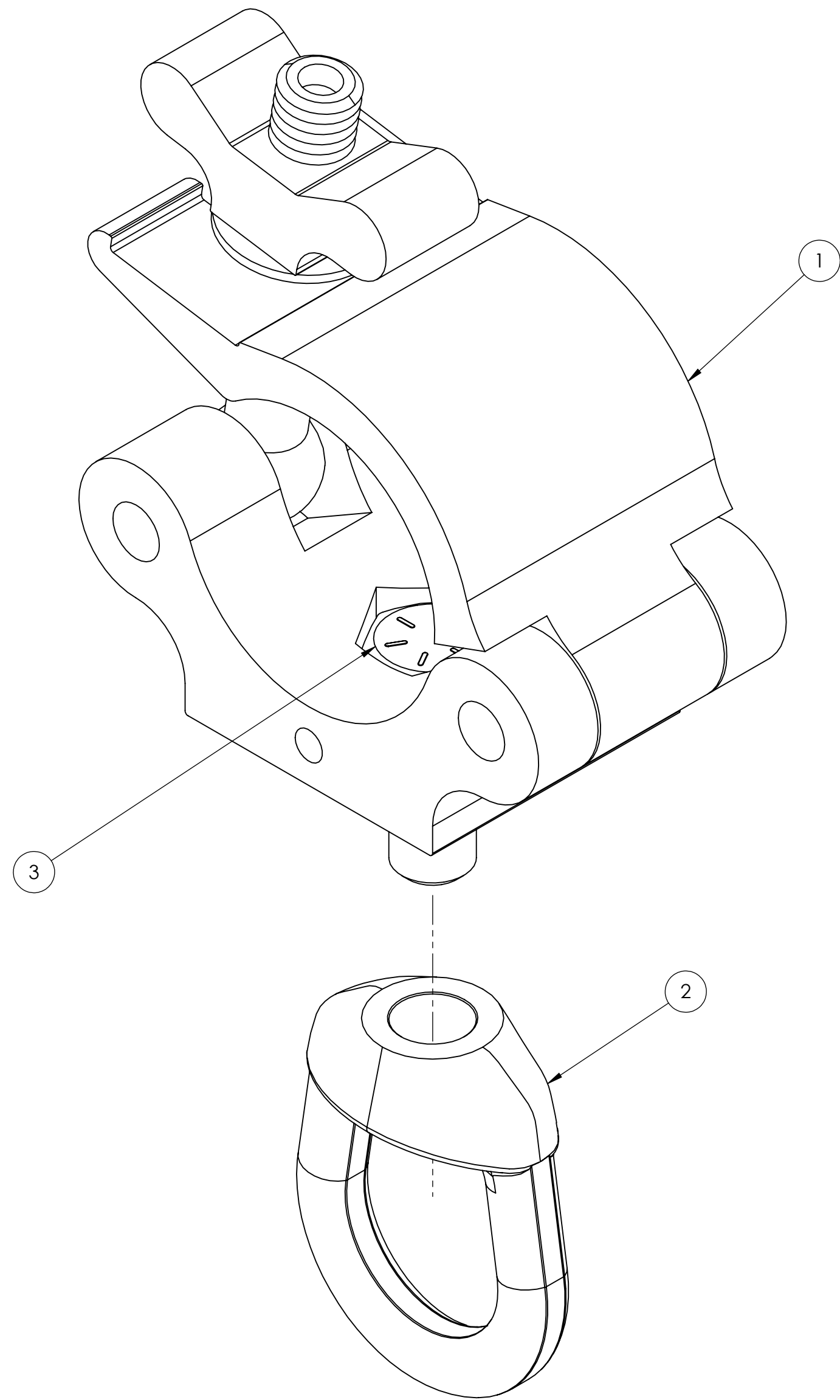
1





Note: 19 Links long

UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/2$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .50$	FIELD	NAME	DATE	 
	DRAWN	JO	12/16/2024	
<b>MATERIAL/FINISH:</b> Grade 43 Zinc Plated Chain, 1/4" Trade Size	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.			TITLE:
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			Cage Chain
DO NOT SCALE DRAWING	SIZE	DWG. NO.	REV	
	<b>C</b>	GE-25229		
	SCALE: 1:1	SHEET 1 OF 1		



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FE-01016	Cheeseborough for Truss _ Single	1
2	3019T18	1/2-13 Galvanized Steel Eye Nut - for Lifting	1
3	hex_.5_13_1.25	Steel Hex Head Screw, 1/2"-13 x 1.25" long, fully threaded	1

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL  $\pm 1/2$   
 ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
 TWO PLACE DECIMAL  $\pm .50$

**MATERIAL/FINISH:**

DO NOT SCALE DRAWING

FIELD	NAME	DATE
DRAWN	JO	12/16/2024

**PROPRIETARY AND CONFIDENTIAL**  
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF **FIRST**. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF **FIRST** IS PROHIBITED.

**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.



TITLE:  
**Eye Nut Assembly**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25230	

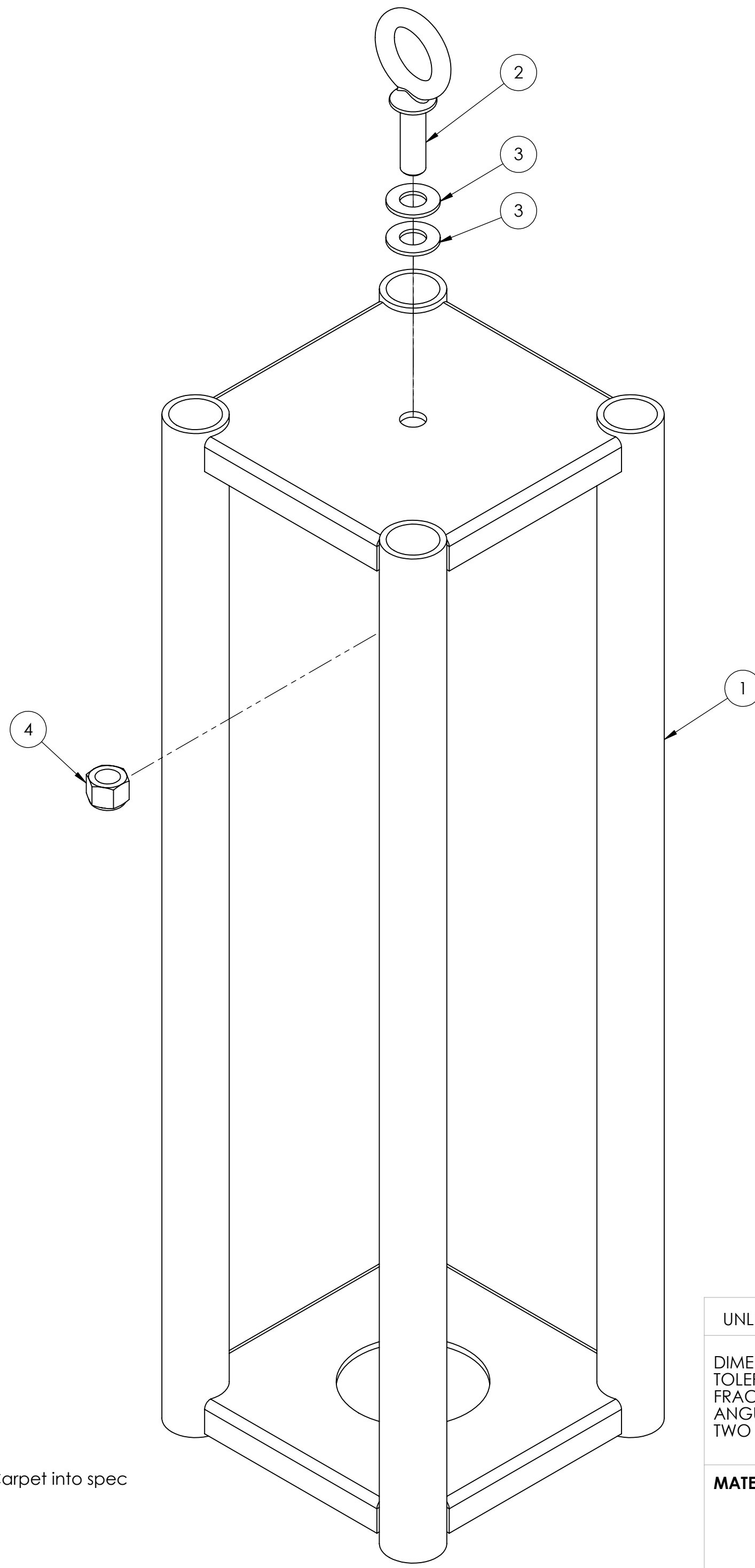
SCALE: 3:2 SHEET 1 OF 1

4

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25202	Cage Weldment, Blue	1
2	3014T491	Steel Eyebolt with Shoulder, 1/2"-13 x 1.5" long, fully threaded	1
3	washer_flat_.5	Flat Washer for 1/2" Screw	2
4	nylock_.5_13	steel nylon-insert locknut, 1/2" - 13	1

Notes:  
 - Washers may be removed to get Cage height from Carpet into spec  
 - Assembly is the same for all colors of Cages

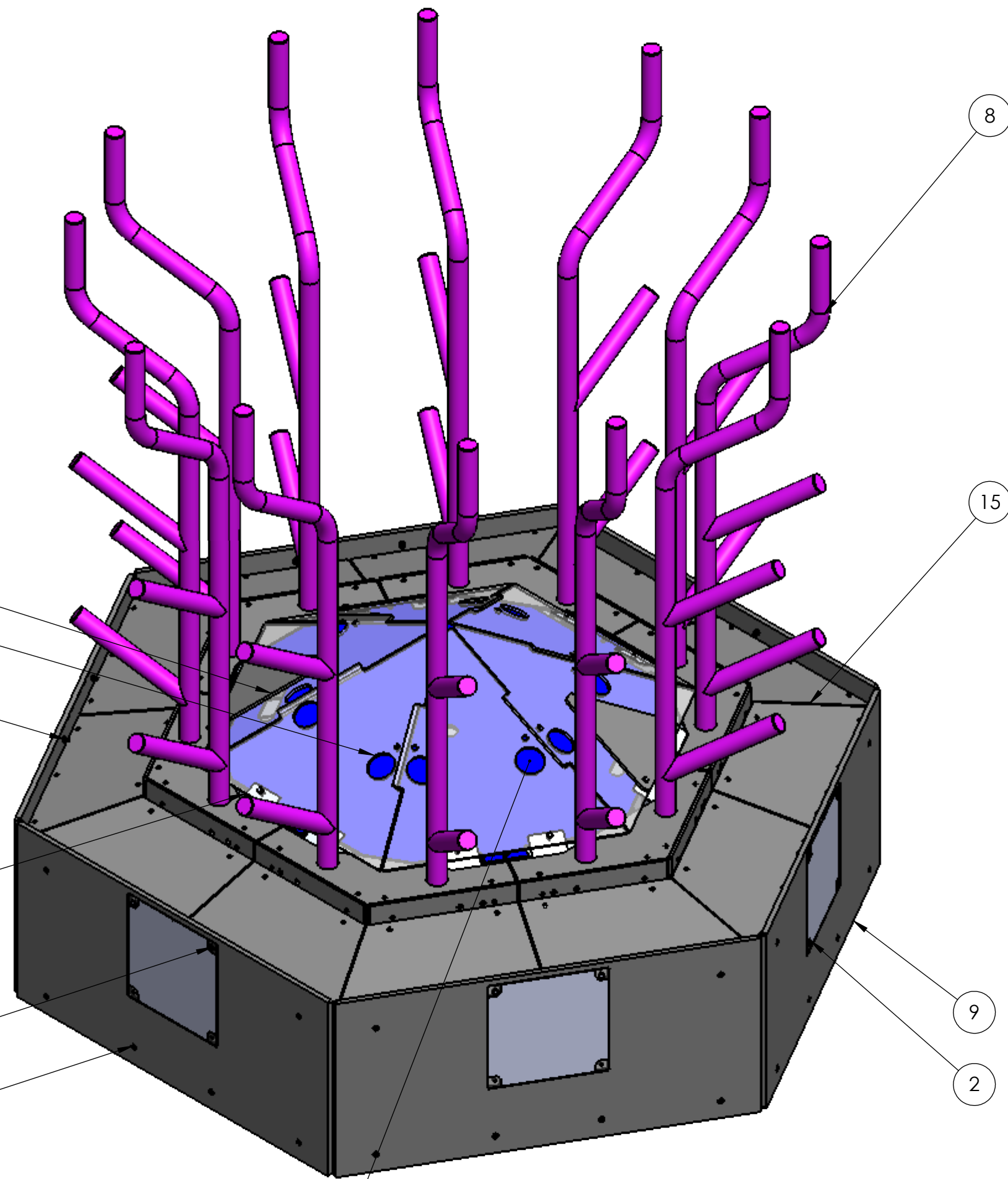
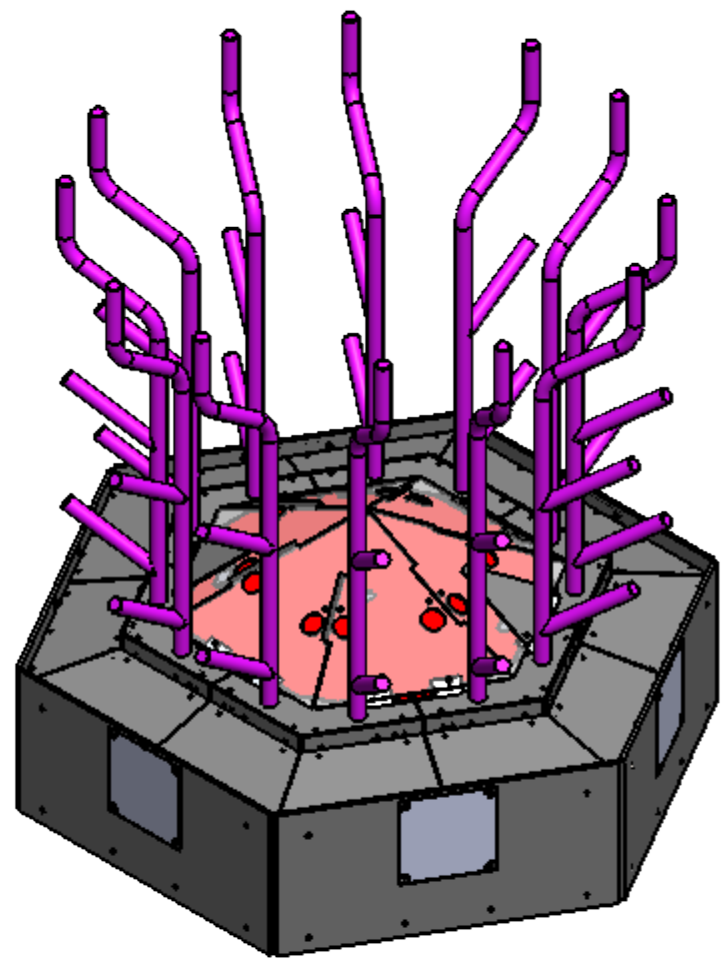
UNLESS OTHERWISE SPECIFIED:		FIELD	NAME	DATE	 
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/2 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .50		DRAWN	JO	12/16/2024	
<b>MATERIAL/FINISH:</b>		<b>PROPRIETARY AND CONFIDENTIAL</b>			TITLE:
		THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			Cage Assembly
<b>COMMENTS:</b>		REMOVE ALL BURRS AND SHARP EDGES.			SIZE
DO NOT SCALE DRAWING					DWG. NO.
					REV
					<b>C</b> GE-25231
					SCALE: 1:2
					SHEET 1 OF 1

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Configurable Bolt	1" Long 1/4-20 Hex Head Bolt	66
2	FE-00083	AprilTag	1
3	FE-00083	AprilTag	1
4	FE-00083	AprilTag	1
5	FE-00083	AprilTag	1
6	FE-00083	AprilTag	1
7	FE-00083	AprilTag	1
8	GE-25301	Scoring Pipe	12
9	GE-25302	Bumper Plastic	6
10	GE-25303	Hexagon Base Plate	1
11	GE-25304	Scorekeeper Triangle	2
12	GE-25305	Coral Catcher Bracket W PEMs	6
13	GE-25306	Coral Catcher Side	6
14	GE-25308	Hexagon Cover - Blue	1
15	GE-25310	Goal Slice Assembly	6
16	flat_phil_25_20_75	Steel Phillips Flat Head Screw, 1-4"-20 x 3/4" long, fully threaded	36
17	nylock_25_20	Steel Nylon-Insert Locknut, 1/4"-20	12
18	pin_quick_ring_25_2.5	Pin, Ring-Grip Quick-Release with SS Ring, 1/4" Diameter, 2.5" Usable Length	24

BLUE CONFIGURATION SHOWN THROUGHOUT

Note: April Tag ID # changes depending on which Reef is being considered. See the Field Layout and Marking Diagram for more details.

UNLESS OTHERWISE SPECIFIED:			FIELD	NAME	DATE
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/2$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .50$			DRAWN	NE	12/6/2024
MATERIAL/FINISH:			<b>PROPRIETARY AND CONFIDENTIAL</b>		
DO NOT SCALE DRAWING			THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.		
			<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		
		TITLE:		Reef	
SIZE	DWG. NO.	REV			
<b>C</b>	GE-25300				
SCALE: 1:10		SHEET 1 OF 2			



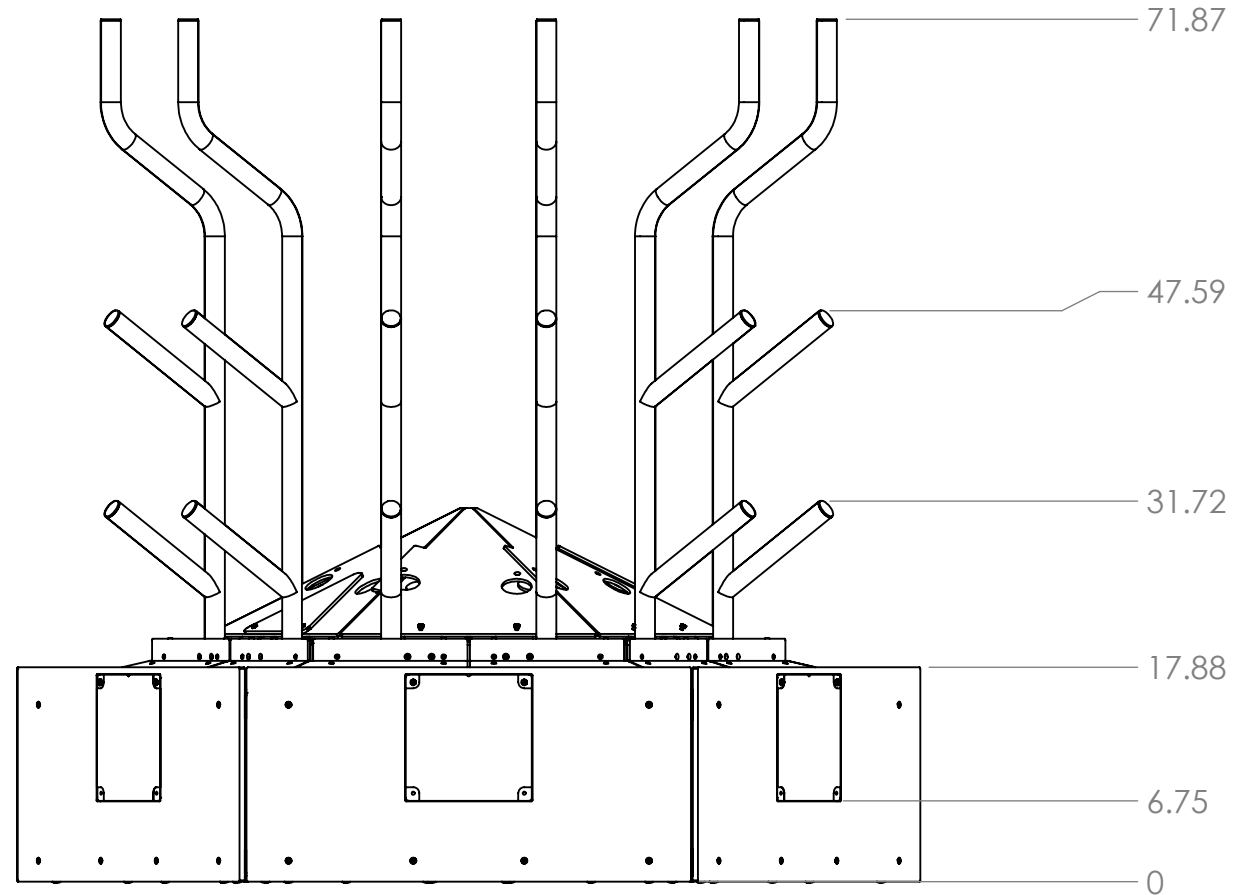
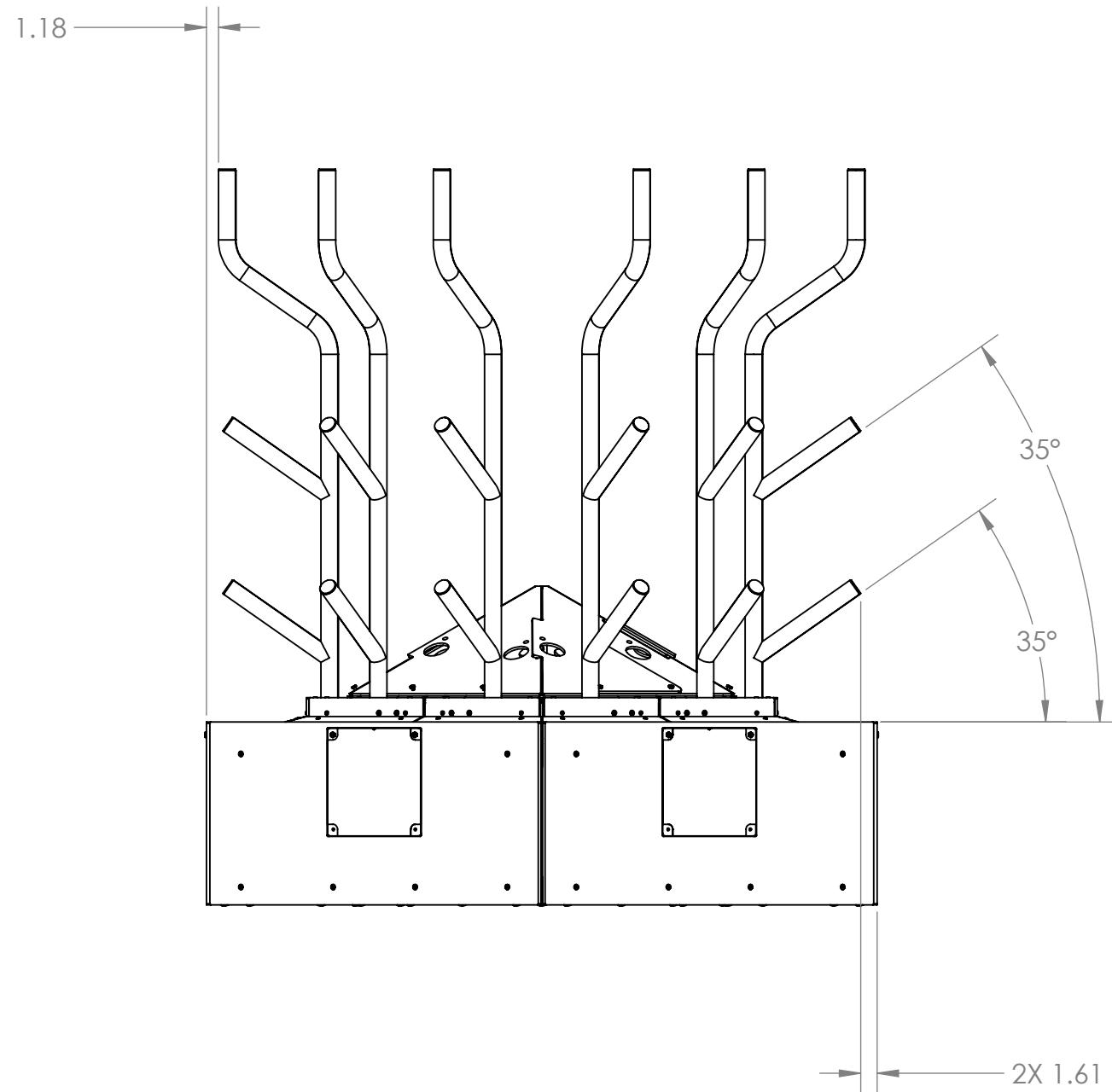
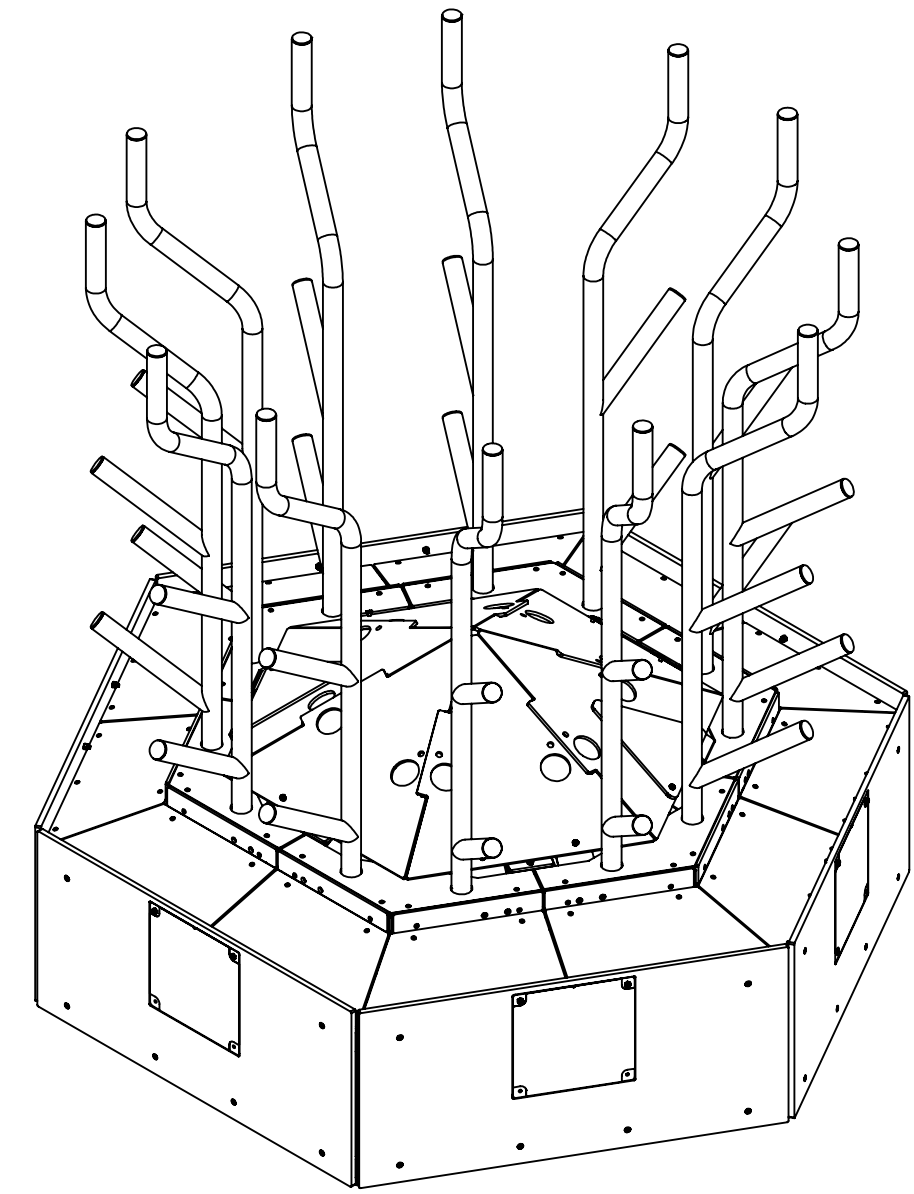
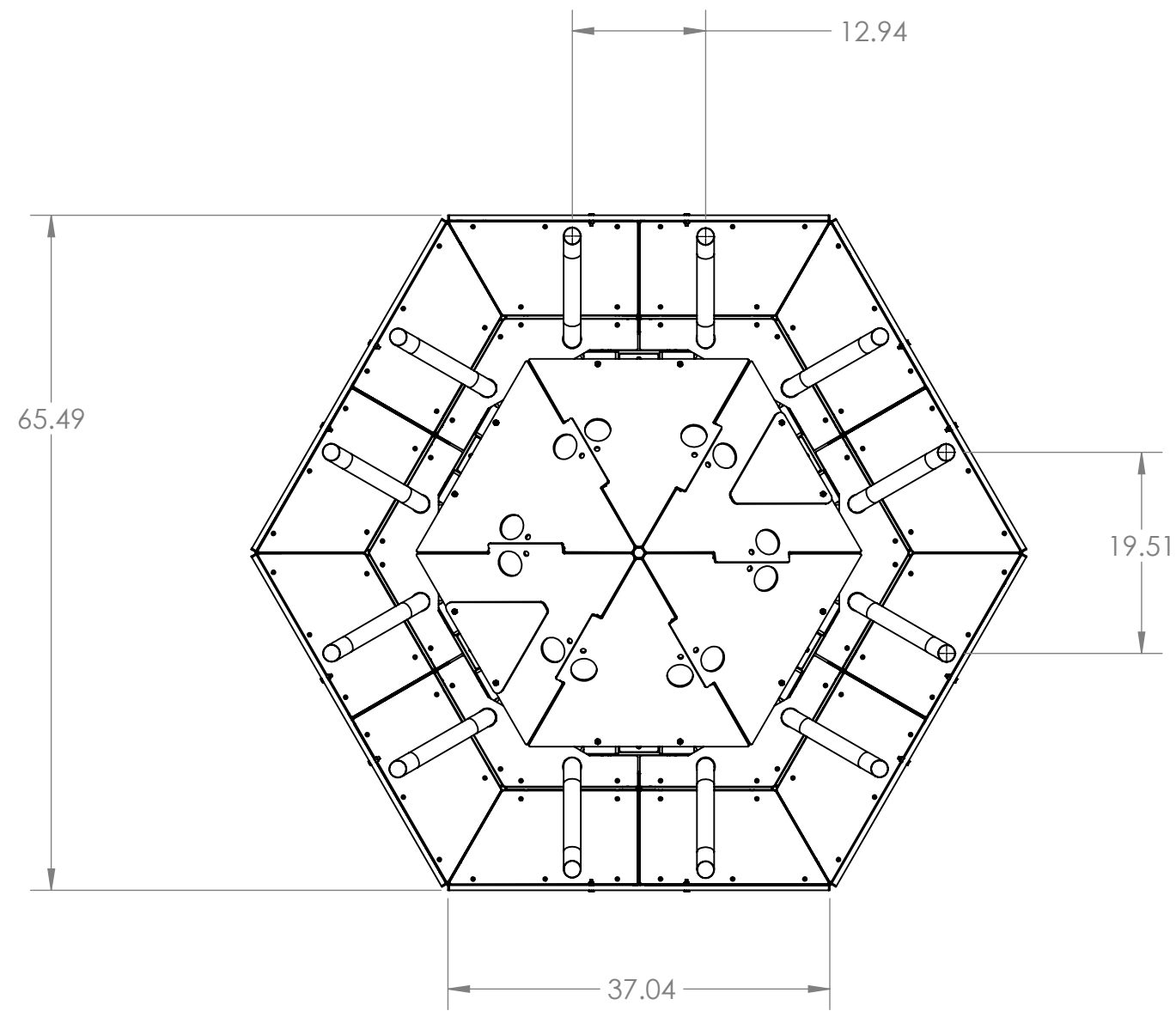




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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/2 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .50	FIELD	NAME	DATE	 					
	DRAWN	NE	12/6/2024						
MATERIAL/FINISH:	<b>PROPRIETARY AND CONFIDENTIAL</b>			TITLE:					
DO NOT SCALE DRAWING	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			Reef					
	COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			<table border="1"> <tr> <td>SIZE</td> <td>DWG. NO.</td> <td>REV</td> </tr> <tr> <td><b>C</b></td> <td>GE-25300</td> <td></td> </tr> </table>	SIZE	DWG. NO.	REV	<b>C</b>	GE-25300
SIZE	DWG. NO.	REV							
<b>C</b>	GE-25300								

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SCALE: 1:16 SHEET 2 OF 2



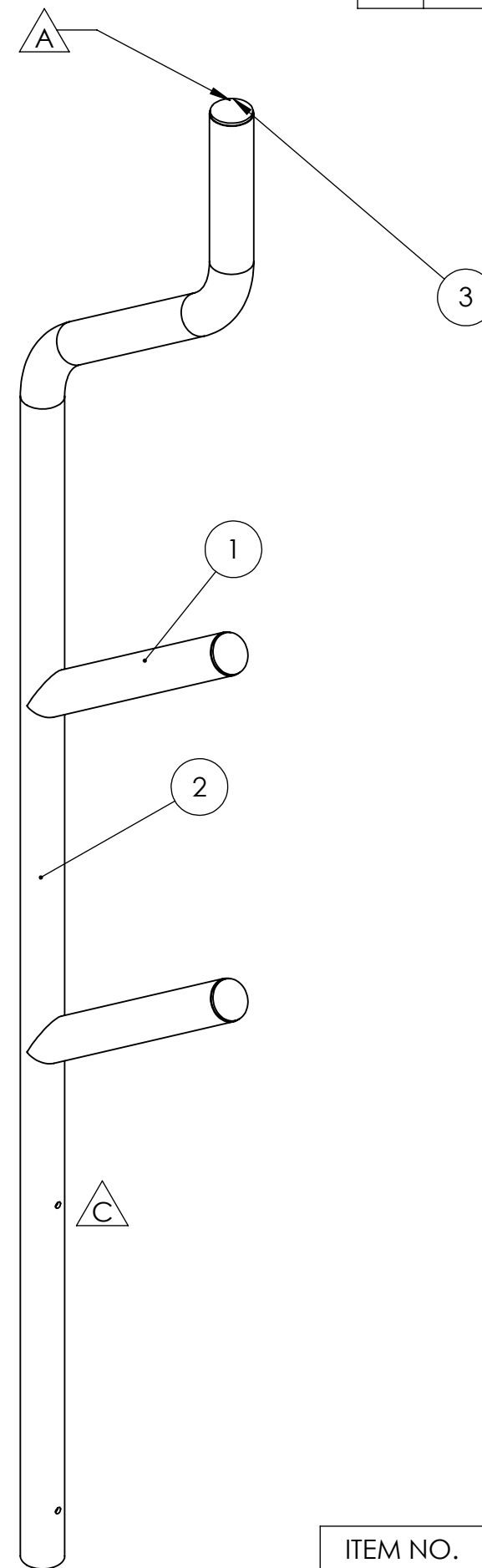
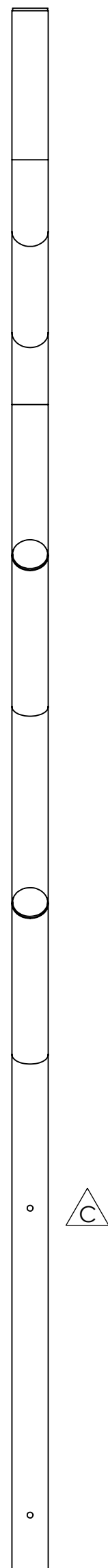
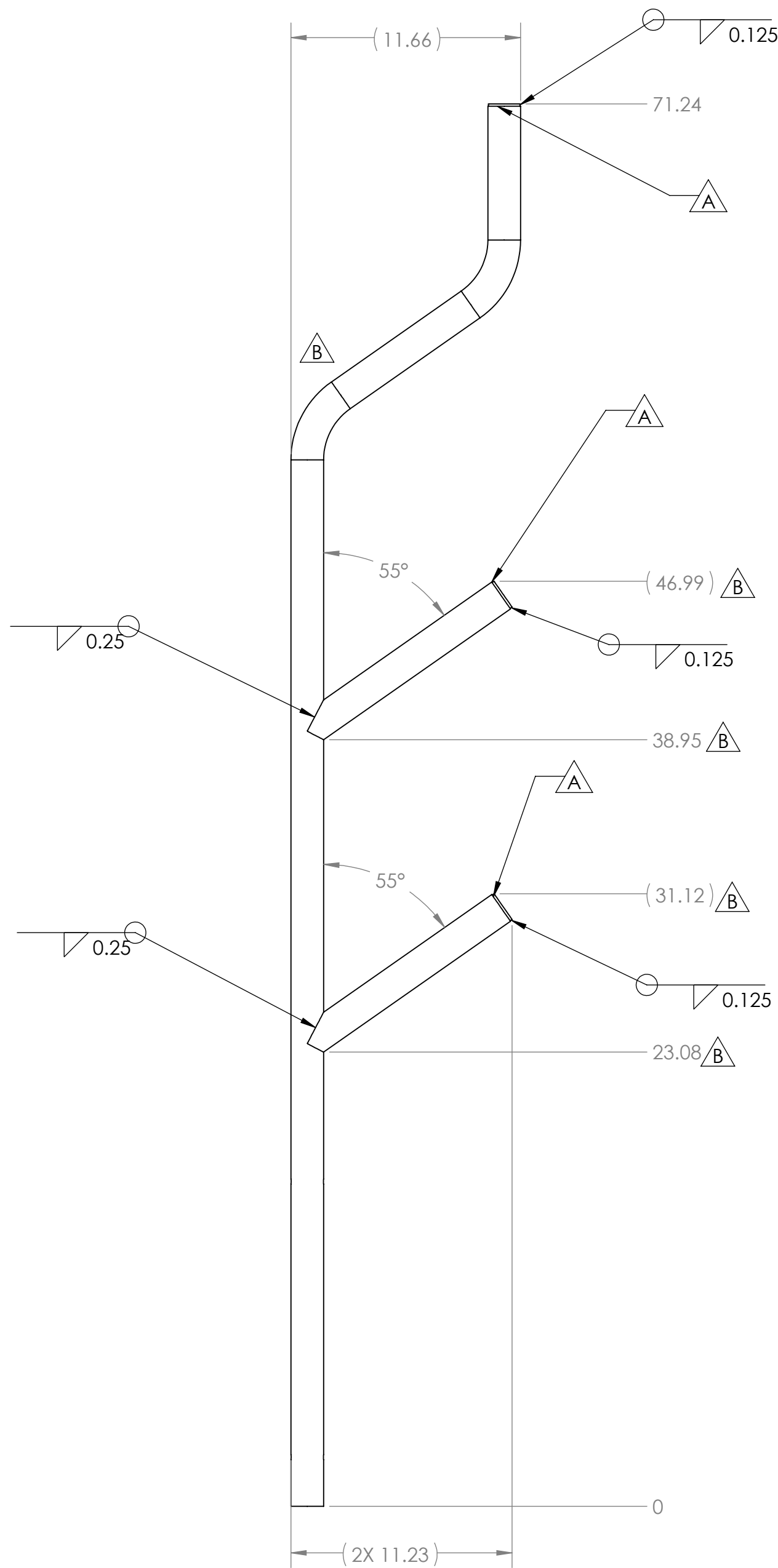
4

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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
A2, C3, D2, D3	A	ADDED GE-25301-03 TO ASSEMBLY AND ASSOCIATED WELD CALLOUTS	8/1/2024	NE
B3, C3, D4	B	GE-25301-02 GEOMETRIC CHANGES AND WELD LOCATIONS WERE ALTERED	8/15/2024	NE
A2, B2, B3	C	REFLECTING GEOMETRY CHANGES TO GE-25301-02 AT THE ASSEMBLY LEVEL	9/19/2024	NE



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25301-01	Small Scoring Pipe	2
2	GE-25301-02	Bent Scoring Pipe	1
3	GE-25301-03	GoalPipeCap	3

UNLESS OTHERWISE SPECIFIED:		
WELD	NAME	DATE
DRAWN	NE	5/6/2024
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .02 THREE PLACE DECIMAL ± .015		
<b>MATERIAL/FINISH:</b> 1.25" Sch. 40 Steel Tube, Powder Coated		
DO NOT SCALE DRAWING		
<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.		
<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		

**FIRST ROBOTICS COMPETITION** **SOLIDWORKS** Modeling Solutions Partner

TITLE: **Scoring Pipe**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25301	<b>C</b>

SCALE: 1:6 SHEET 1 OF 1

Notes:  
1. Powder coat color: RAL-4003 "Heather Violet", or equivalent

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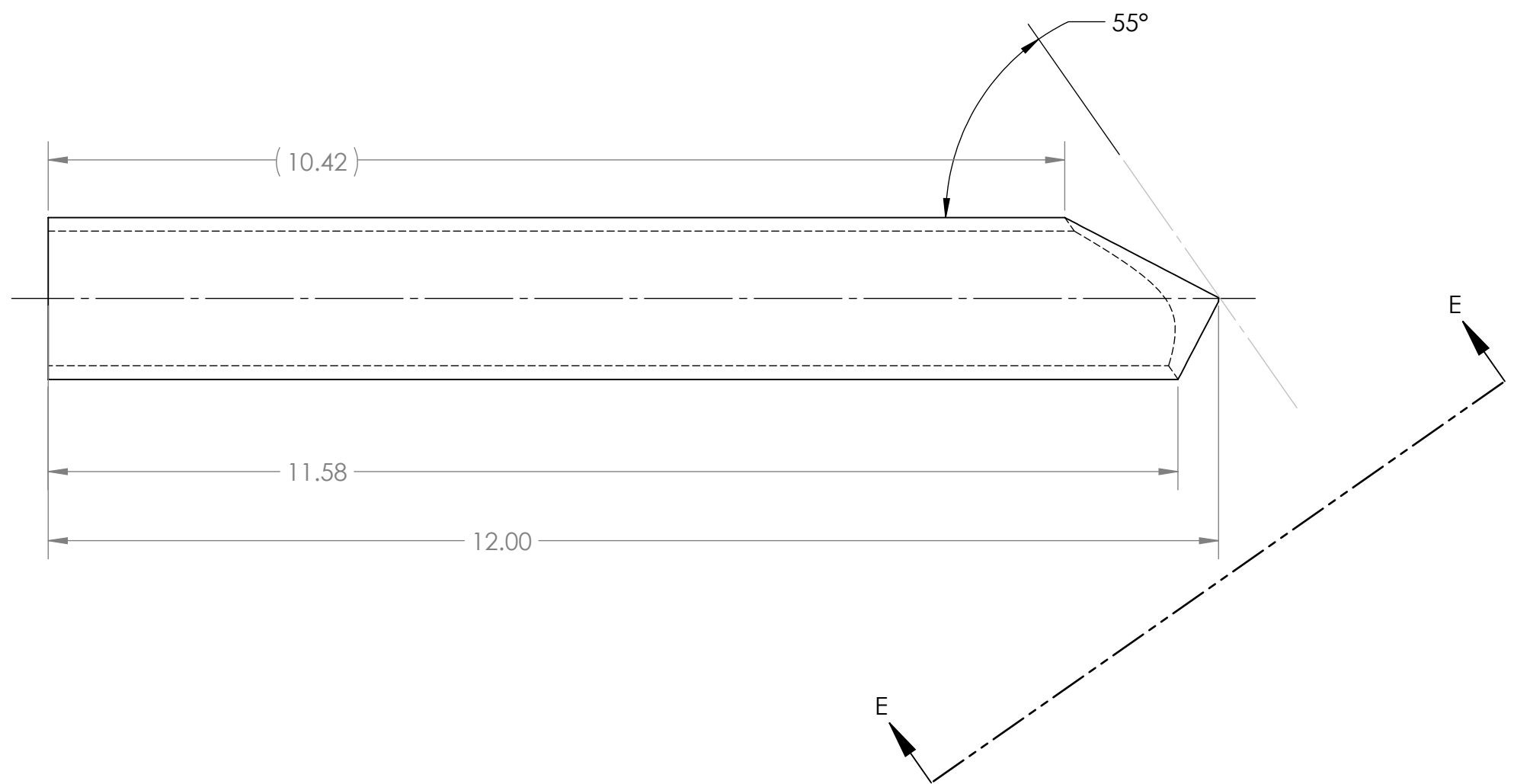
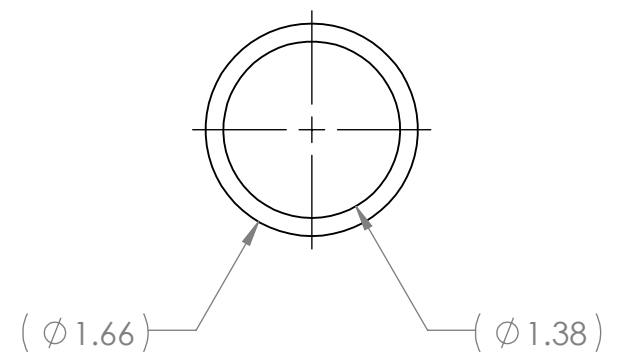
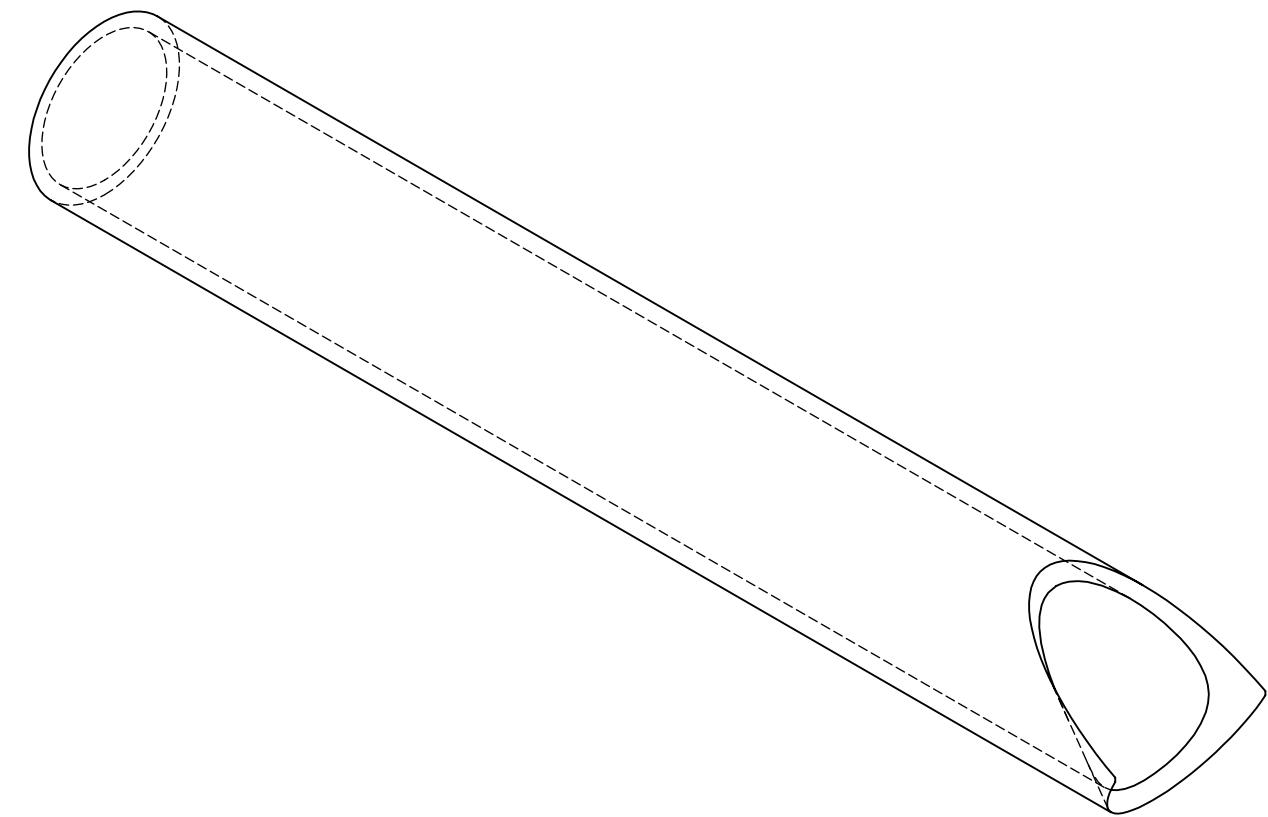
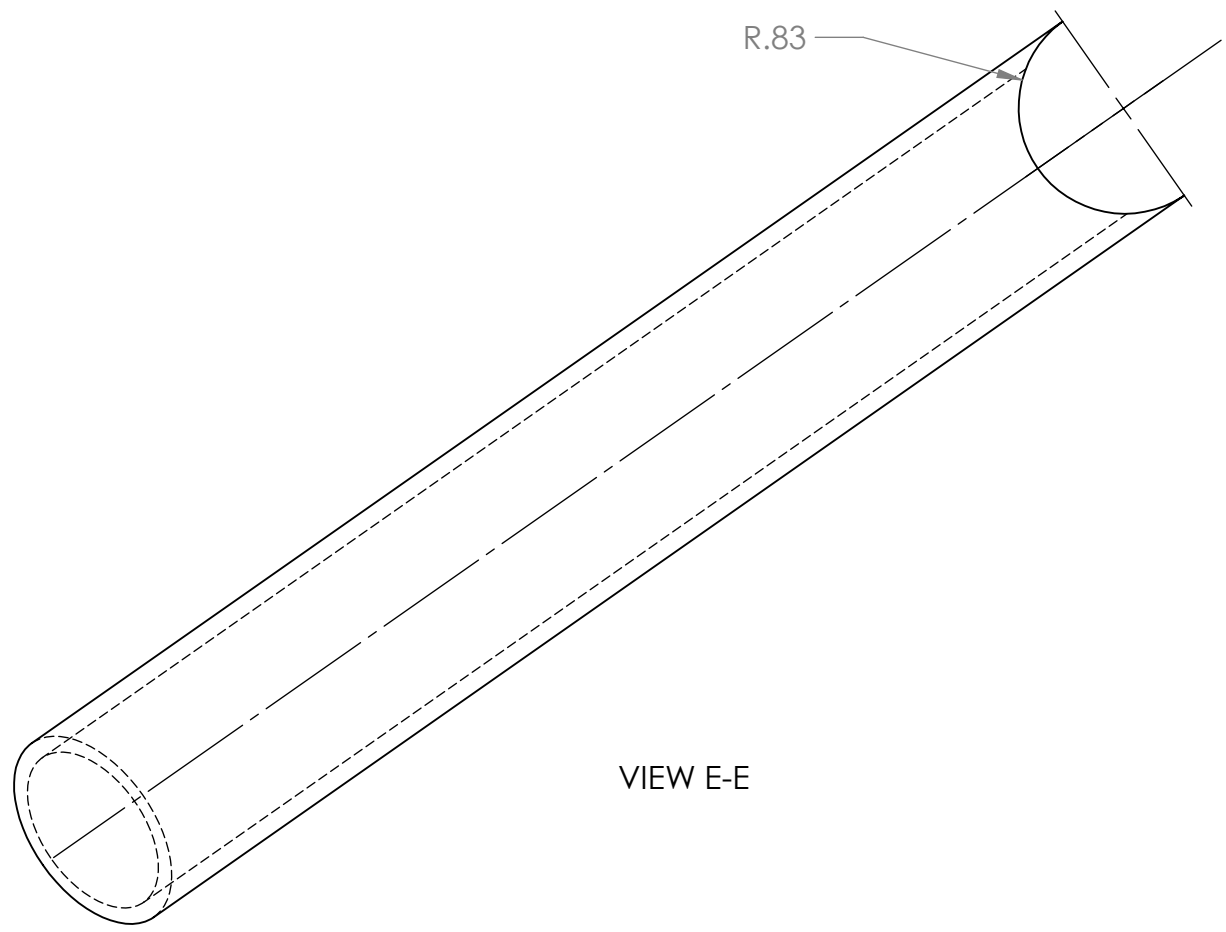
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LOOKING FOR QUOTING ON THE SELECTION OF MATERIALS/FINISHES DISCUSSED 5/3/2024

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .01 THREE PLACE DECIMAL ± .005 <b>MATERIAL/FINISH:</b> 1.25" Sch. 40 Steel Tube  DO NOT SCALE DRAWING	VEND	NAME	DATE	 						
	DRAWN	NE	5/3/2024							
	<b>PROPRIETARY AND CONFIDENTIAL</b>			TITLE:						
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			Small Scoring Pipe						
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			<table border="1"> <tr> <td>SIZE</td> <td>DWG. NO.</td> <td>REV</td> </tr> <tr> <td><b>C</b></td> <td>GE-25301-01</td> <td><b>B</b></td> </tr> </table>	SIZE	DWG. NO.	REV	<b>C</b>	GE-25301-01	<b>B</b>
SIZE	DWG. NO.	REV								
<b>C</b>	GE-25301-01	<b>B</b>								
	SCALE: 2:3		SHEET 1 OF 1							

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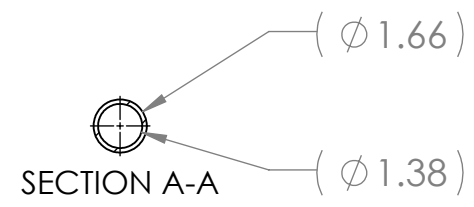
A

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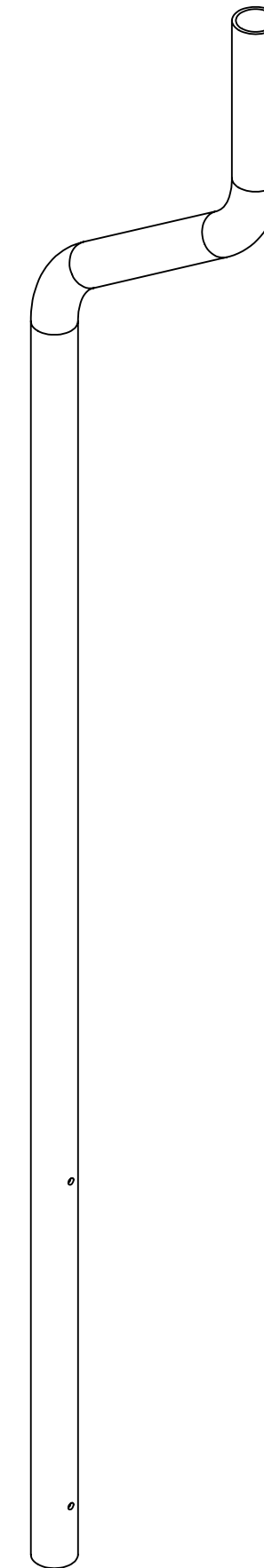
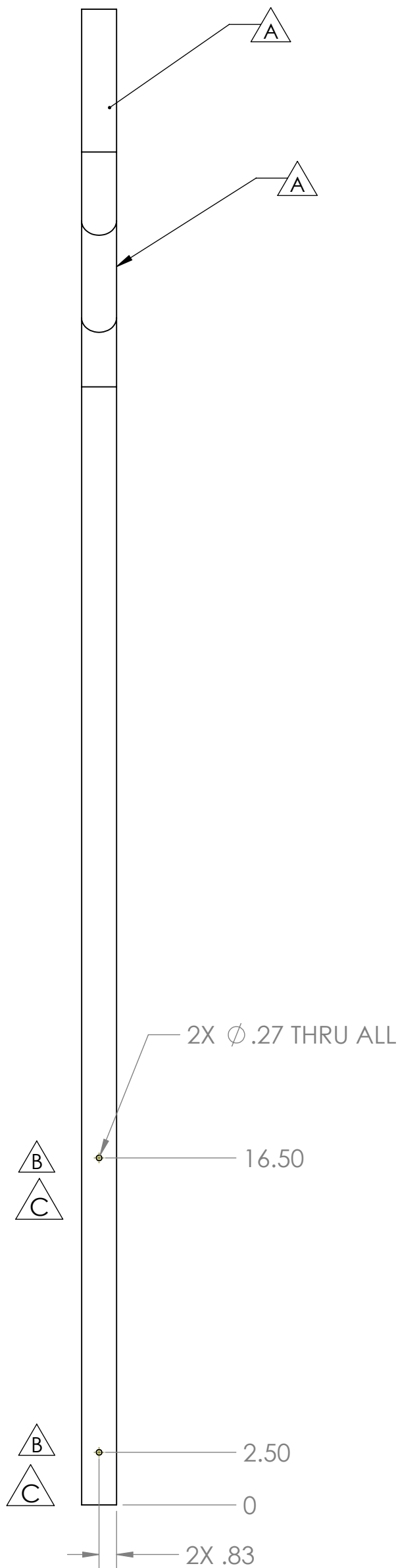
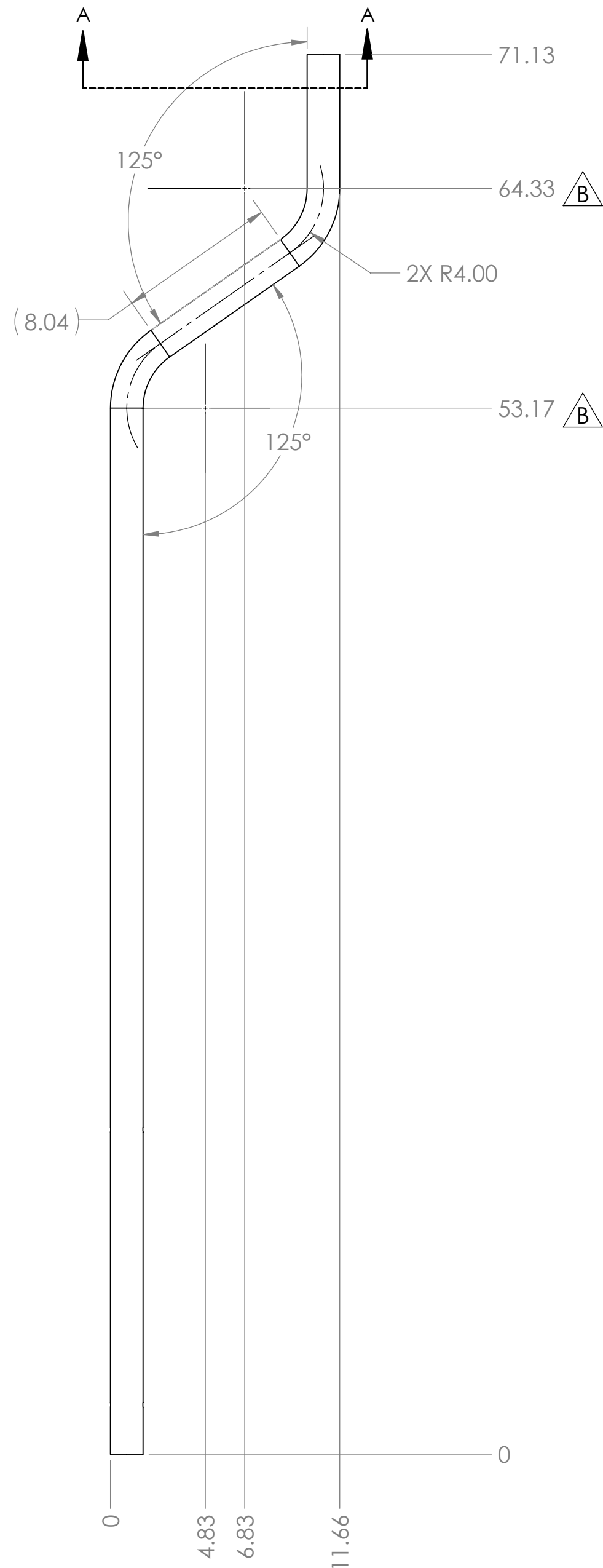
3

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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
C3, D3	A	REMOVED SEVERAL HOLES AND RELOCATED REMAINING THRU HOLES	8/1/2024	NE
A3, B3, C3	B	ALTERED BEND LOCATIONS AND CHANGED HOLES TO SLOTS	8/15/2024	NE
A3	C	REVERTED SLOTS BACK TO HOLES AND REMOVED DETAIL VIEW	9/19/2024	NE



UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ± 1/16  
 ANGULAR: MACH ± 1° BEND ± 1°  
 TWO PLACE DECIMAL ± .01  
 THREE PLACE DECIMAL ± .005

**MATERIAL/FINISH:**  
 1.25" Sch. 40 Steel Tube

DO NOT SCALE DRAWING

VEND	NAME	DATE
DRAWN	NE	5/3/2024

**PROPRIETARY AND CONFIDENTIAL**  
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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.



TITLE:  
**Bent Scoring Pipe**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25301-02	<b>C</b>

SCALE: 1:6 SHEET 1 OF 1

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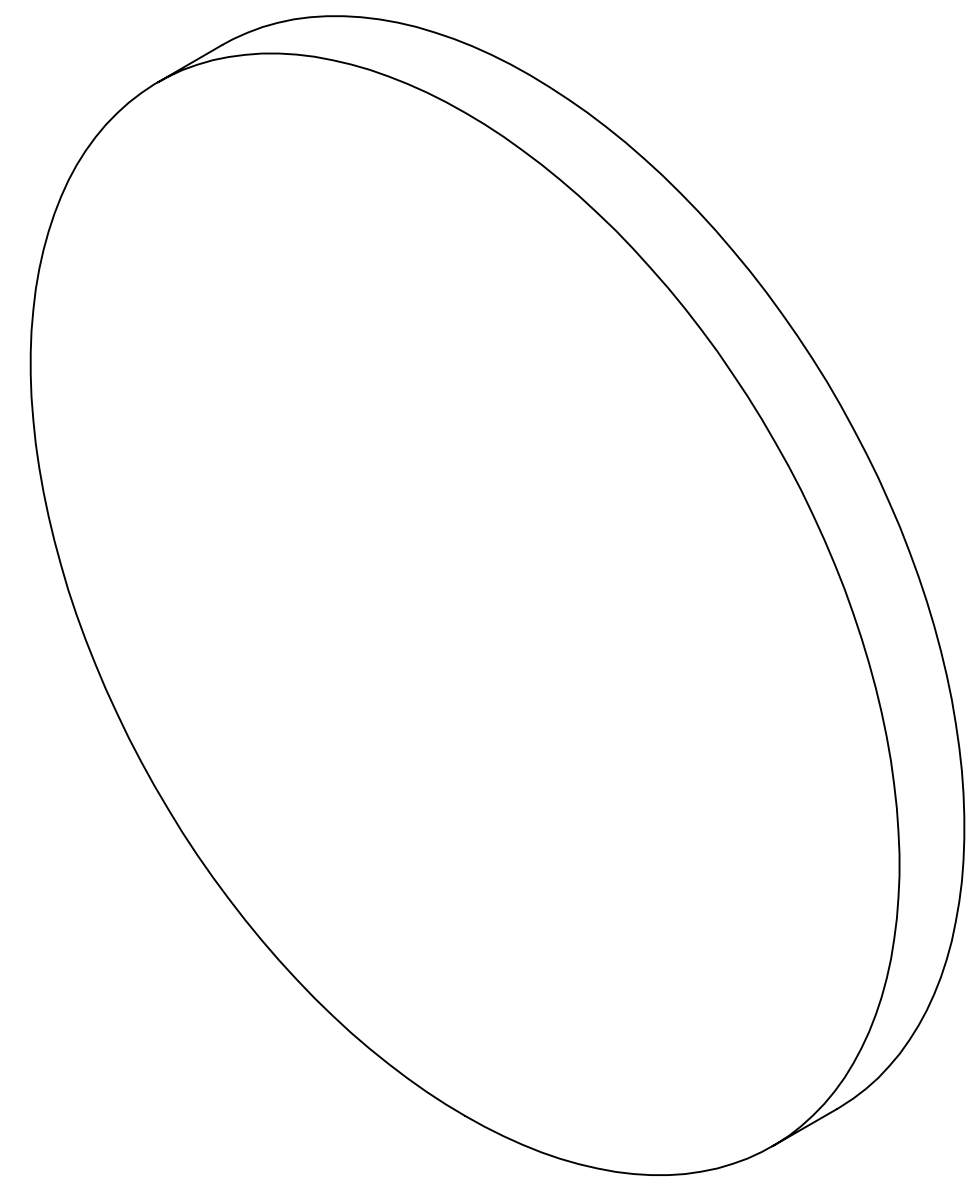
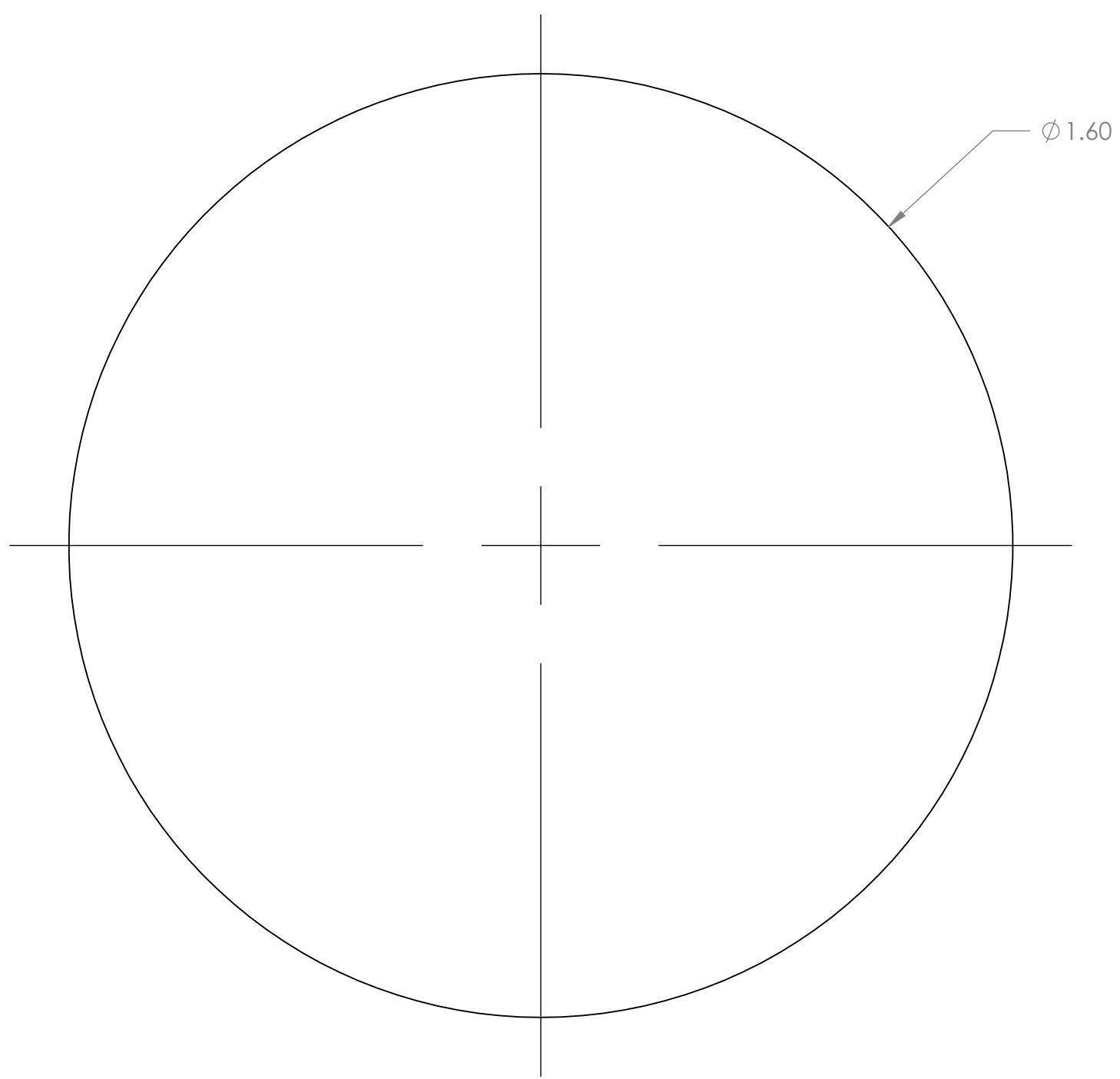
C

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UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL  $\pm 1/16$   
 ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
 TWO PLACE DECIMAL  $\pm .01$   
 THREE PLACE DECIMAL  $\pm .005$

**MATERIAL/FINISH:**  
 11 GA STEEL

DO NOT SCALE DRAWING

VEND	NAME	DATE
DRAWN	NE	8/1/2024

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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.



TITLE:  
**GoalPipeCap**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25301-03	<b>A</b>

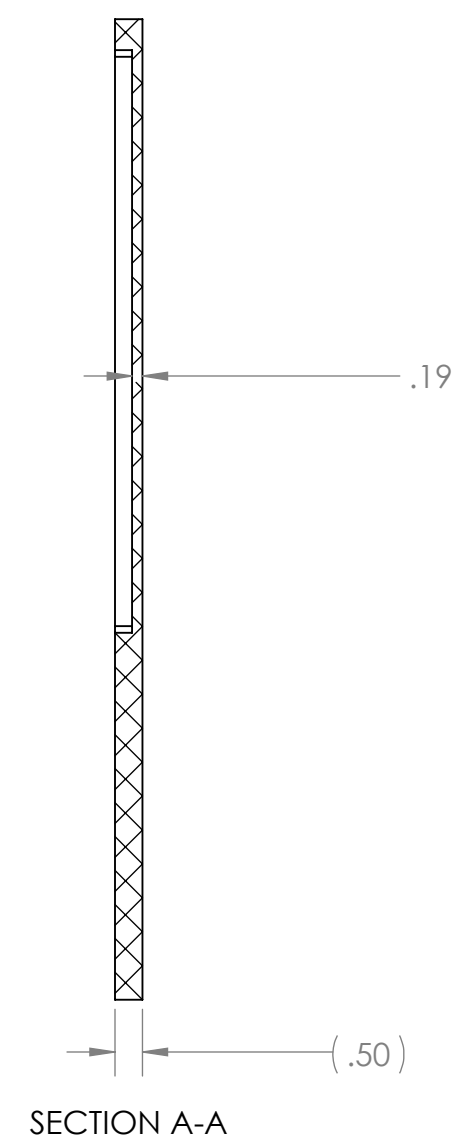
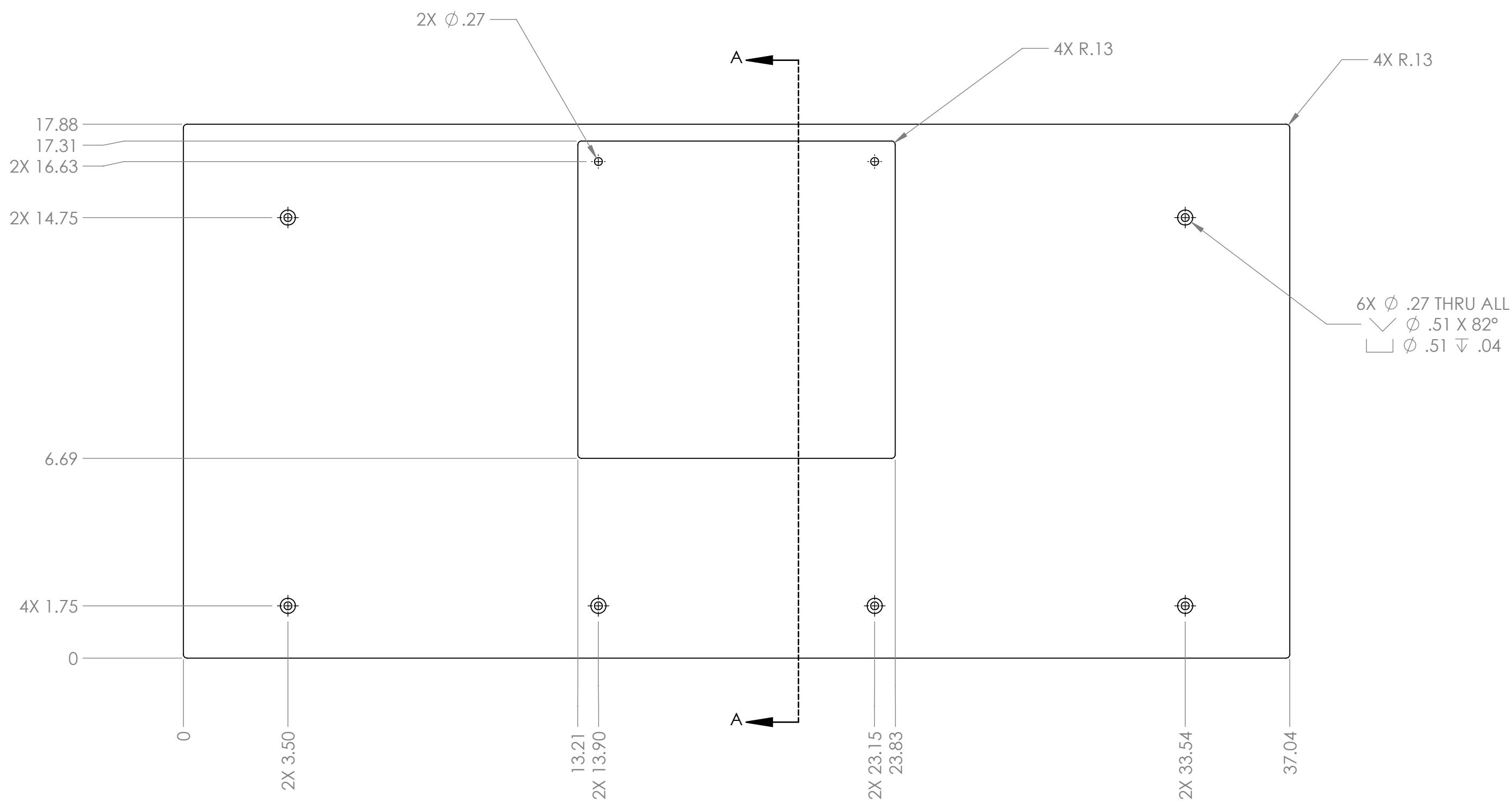
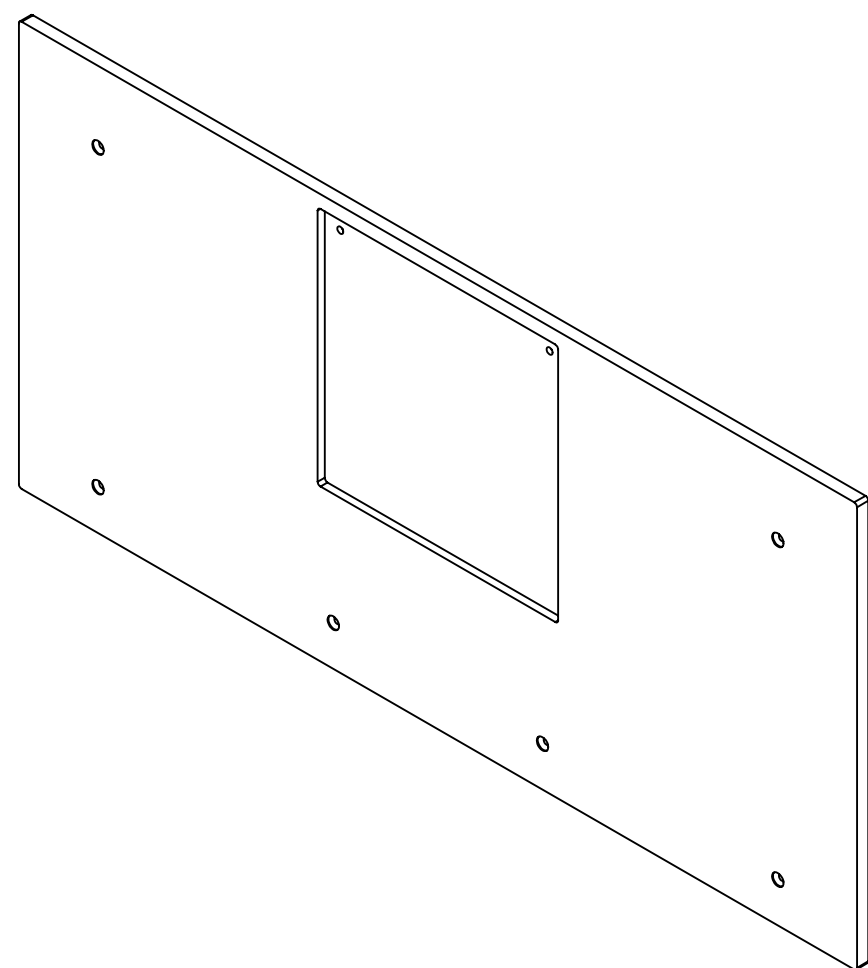
SCALE: 4:1      SHEET 1 OF 1

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UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL  $\pm$  1/16  
 ANGULAR: MACH  $\pm$  1° BEND  $\pm$  1°  
 TWO PLACE DECIMAL  $\pm$ .01  
 THREE PLACE DECIMAL  $\pm$ .005

**MATERIAL/FINISH:**  
 0.5" HDPE, Black Matte  
 Finish

DO NOT SCALE DRAWING

VEND	NAME	DATE
DRAWN	NE	10/1/2024

**PROPRIETARY AND CONFIDENTIAL**

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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.



TITLE:  
**Bumper Plastic**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25302	

SCALE: 2:7 SHEET 1 OF 1

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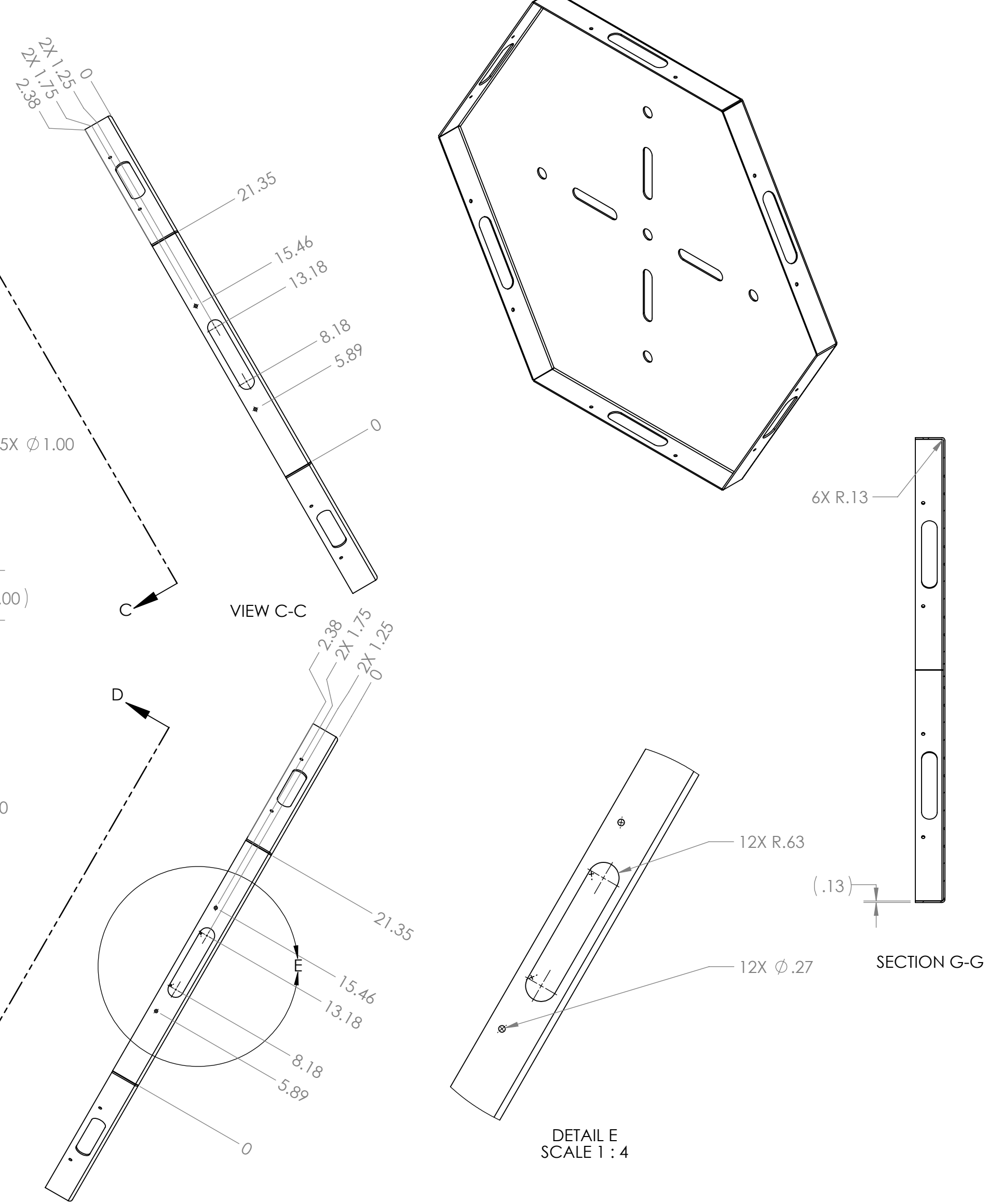
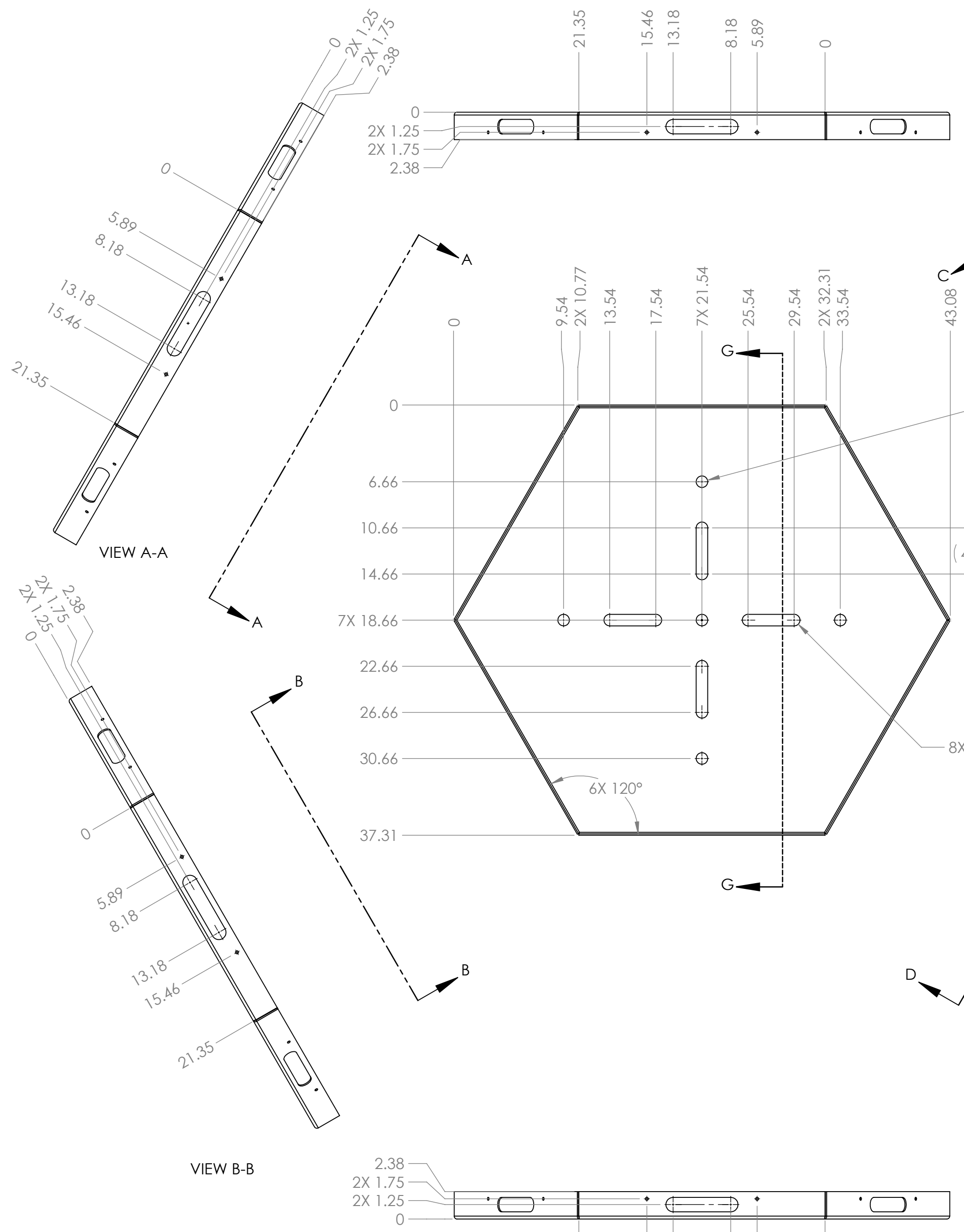
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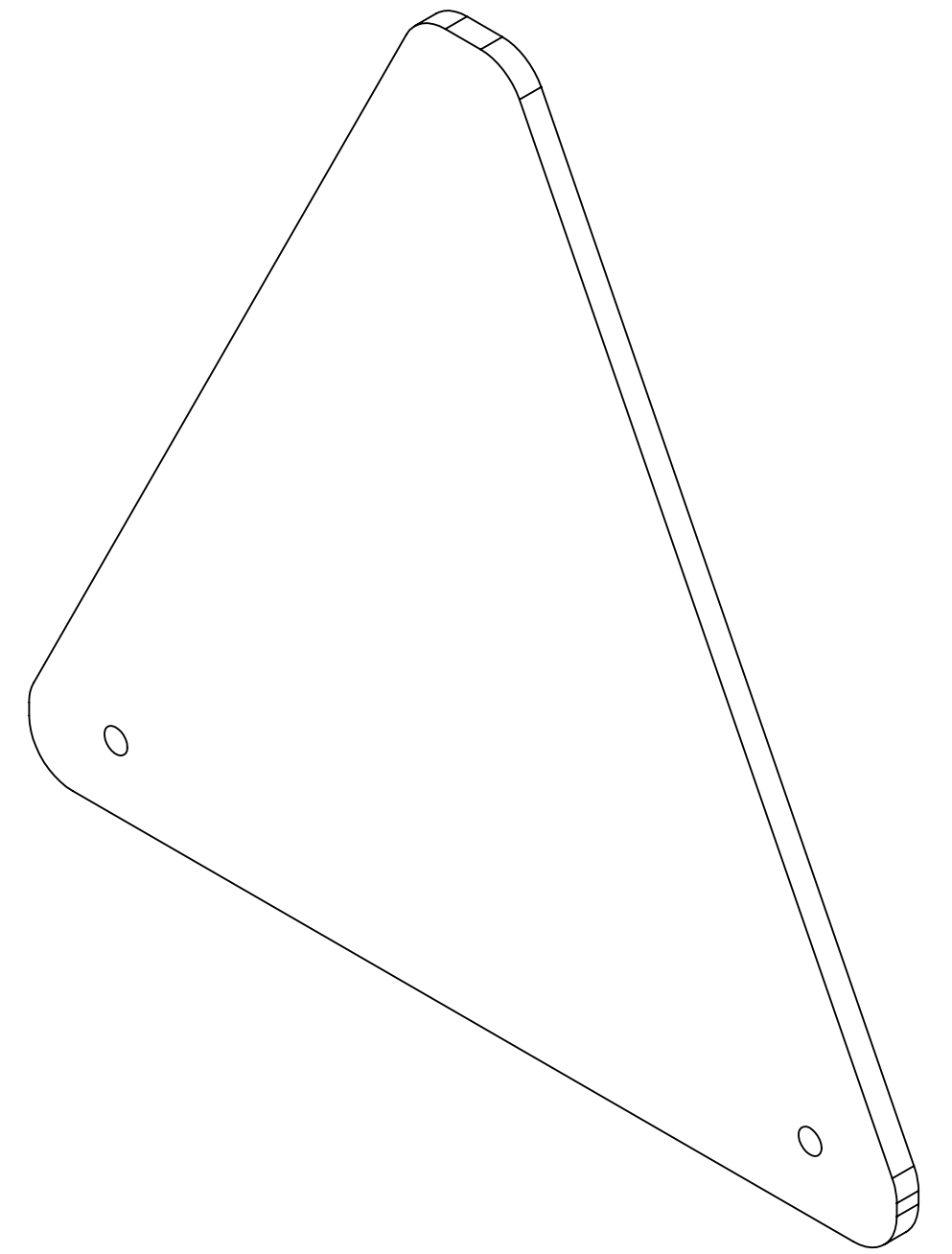
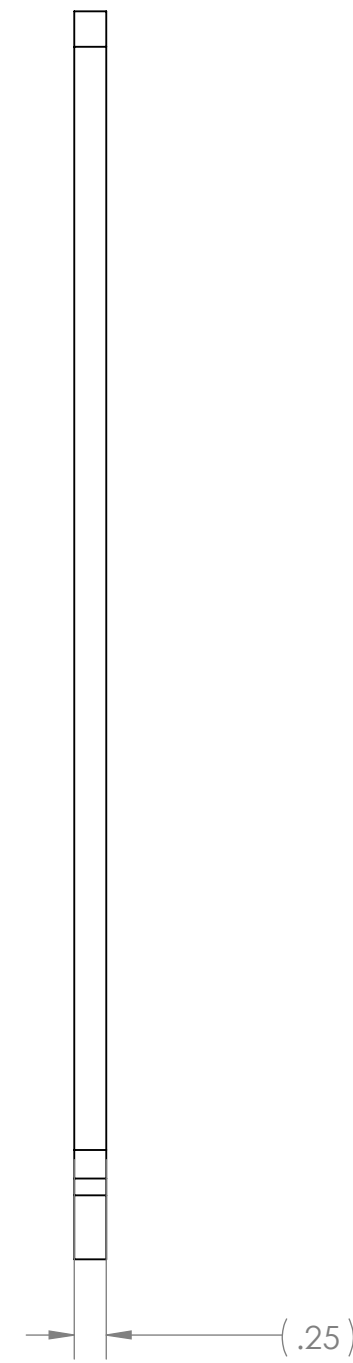
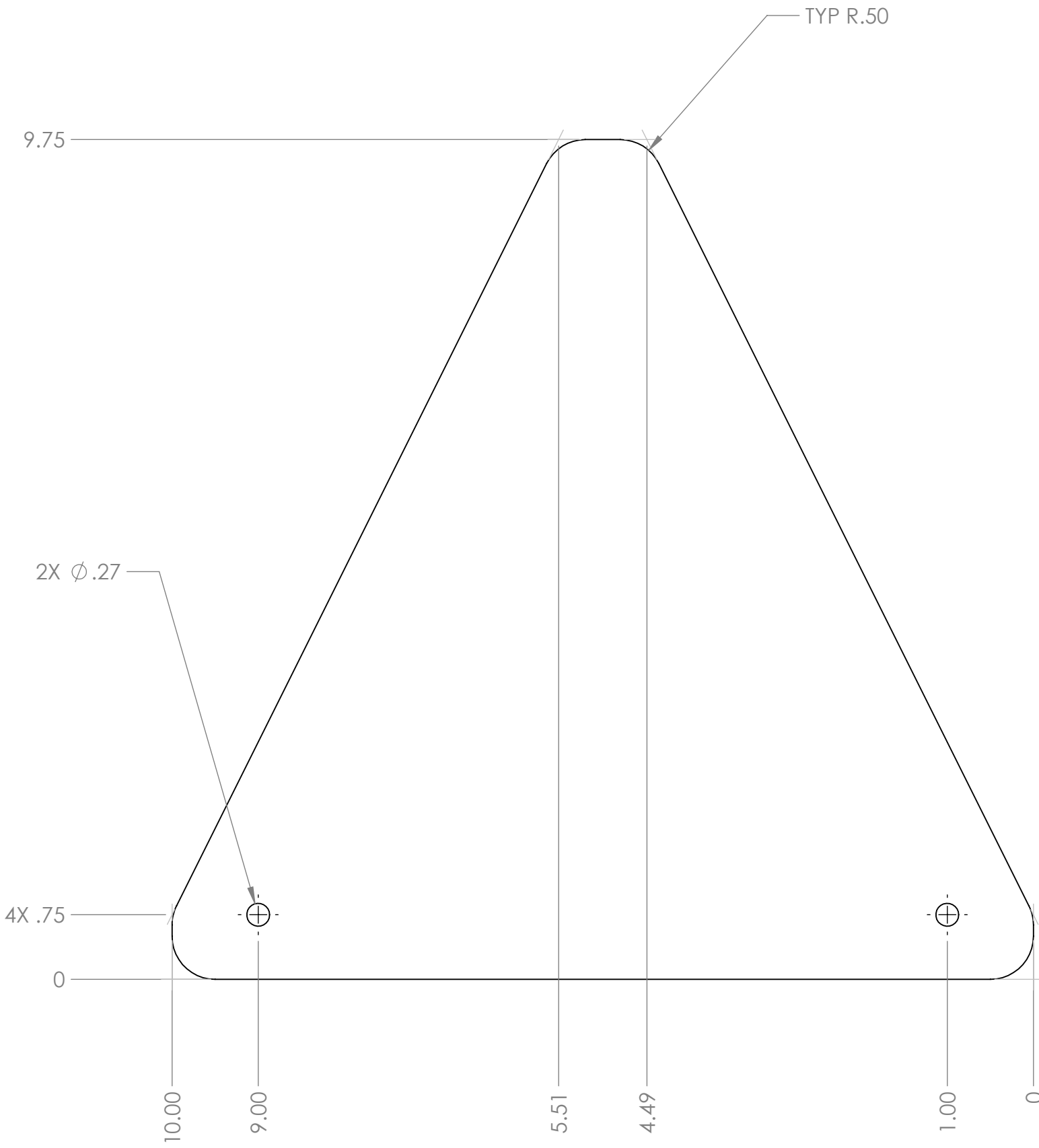
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A



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.02 THREE PLACE DECIMAL ±.010	BEND	NAME	DATE
	DRAWN	NE	10/1/2024
<b>MATERIAL/FINISH:</b> 8GA 5052 Aluminum	<b>PROPRIETARY AND CONFIDENTIAL</b>		
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DO NOT SCALE DRAWING	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		

 		
TITLE: Hexagon Base Plate		
SIZE	DWG. NO.	REV
<b>C</b>	GE-25303	
SCALE: 1:8		SHEET 1 OF 1



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .005$ <b>MATERIAL/FINISH:</b> 0.25" HDPE, Black Matte Finish	VEND	NAME	DATE	 	
	DRAWN	NE	10/1/2024		
DO NOT SCALE DRAWING	<b>PROPRIETARY AND CONFIDENTIAL</b>			TITLE: <h1>Scorekeeper Triangle</h1>	
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.				
<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			SIZE	DWG. NO.	REV
			<b>C</b>	GE-25304	
			SCALE: 2:3	SHEET 1 OF 1	

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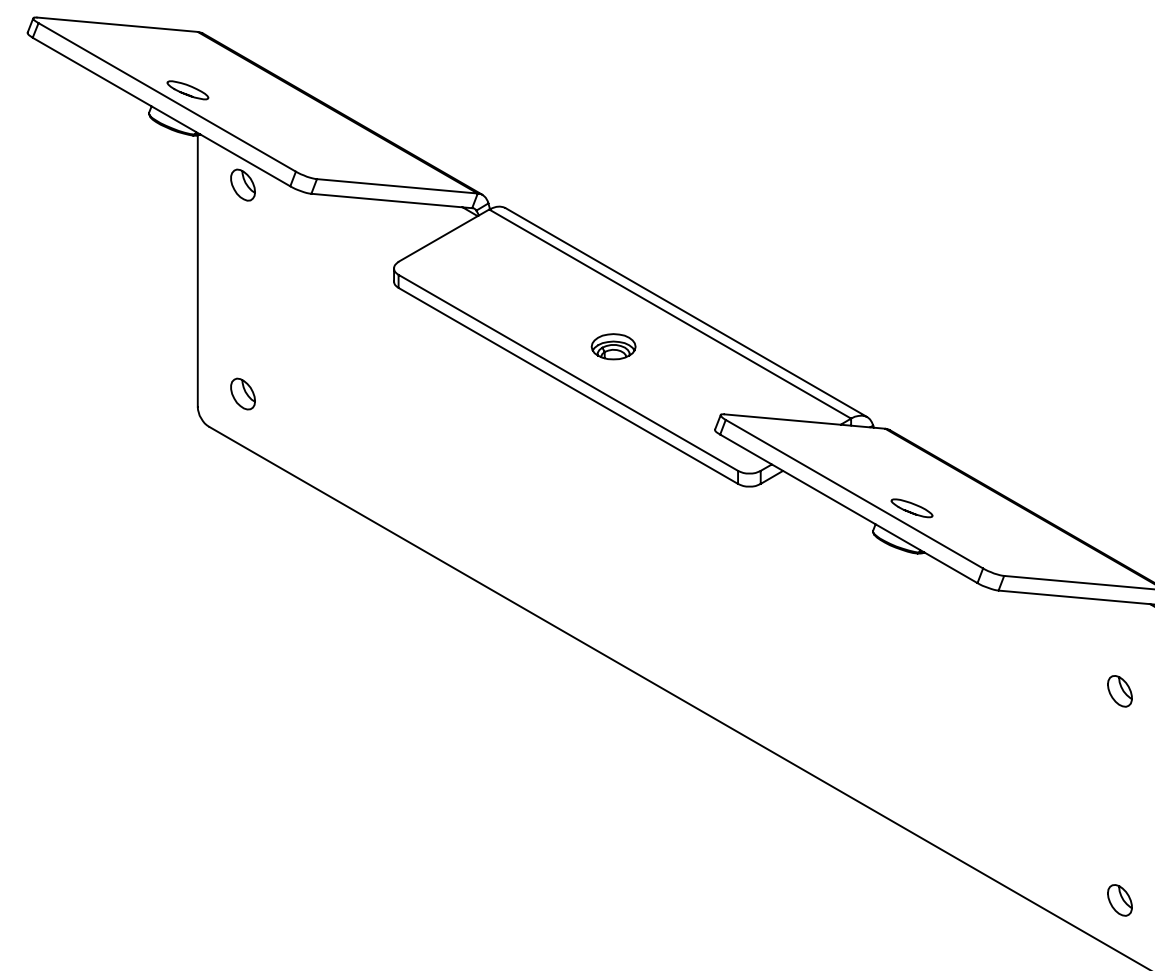
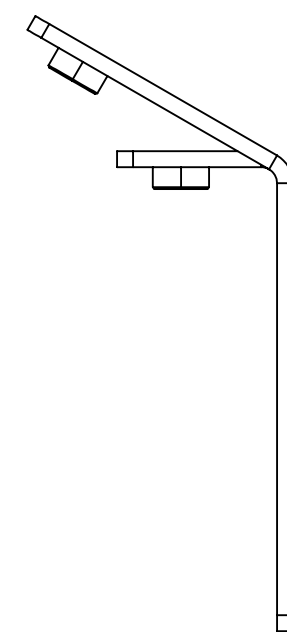
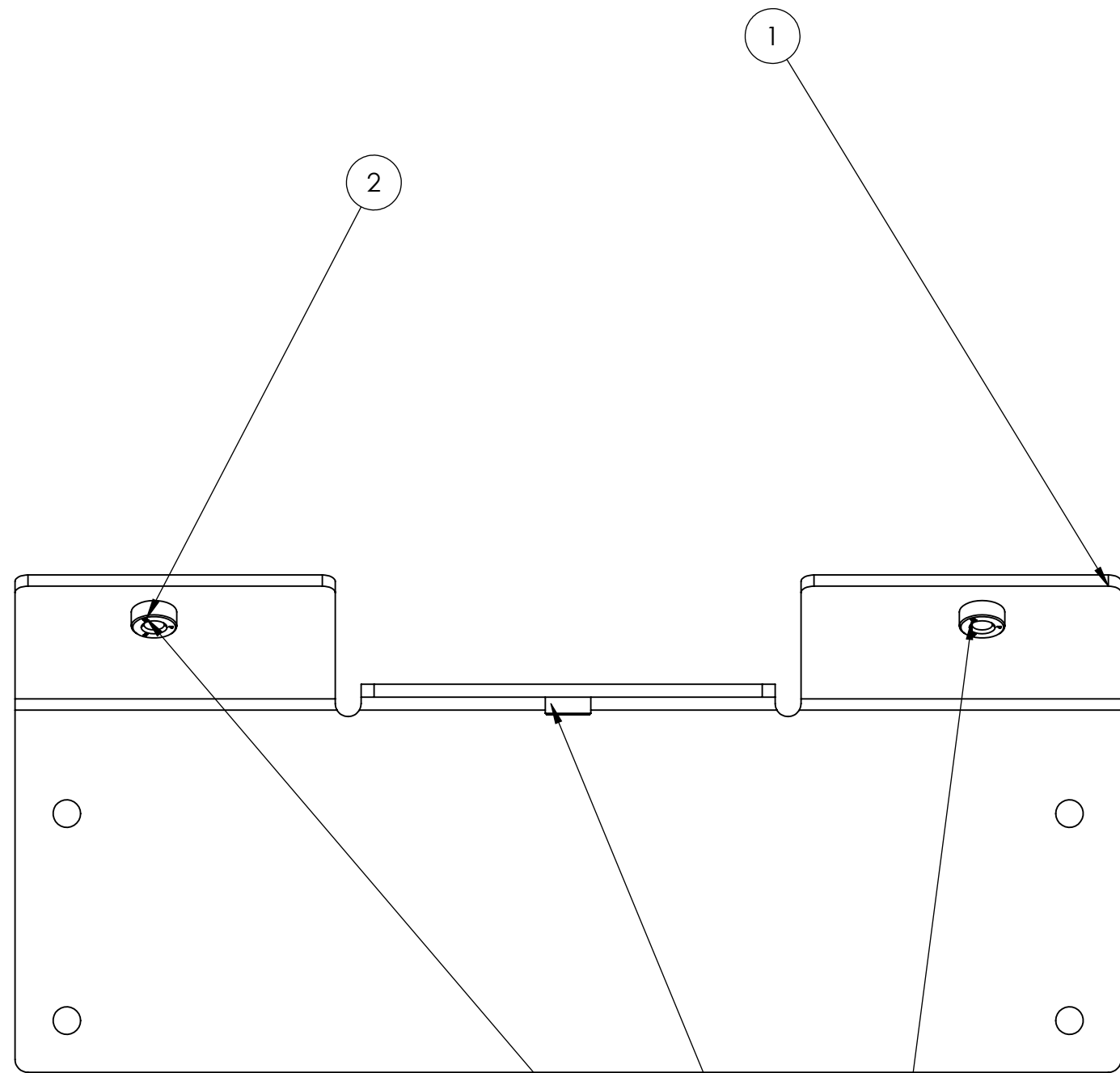
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3X PEM NUTS INSTALLED ON INTERIOR FACE

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25305-01	Coral Catcher Bracket	1
2	pem_clinchnut_.25_20 -.054	1/4-20 self-clinching nut, .054 shank	3

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL  $\pm 1/16$   
 ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
 TWO PLACE DECIMAL  $\pm .01$   
 THREE PLACE DECIMAL  $\pm .005$

**MATERIAL/FINISH:**

DO NOT SCALE DRAWING

VEND	NAME	DATE
	NE	10/1/2024

**PROPRIETARY AND CONFIDENTIAL**  
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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.



TITLE:  
**Coral Catcher Bracket W PEMs**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25305	

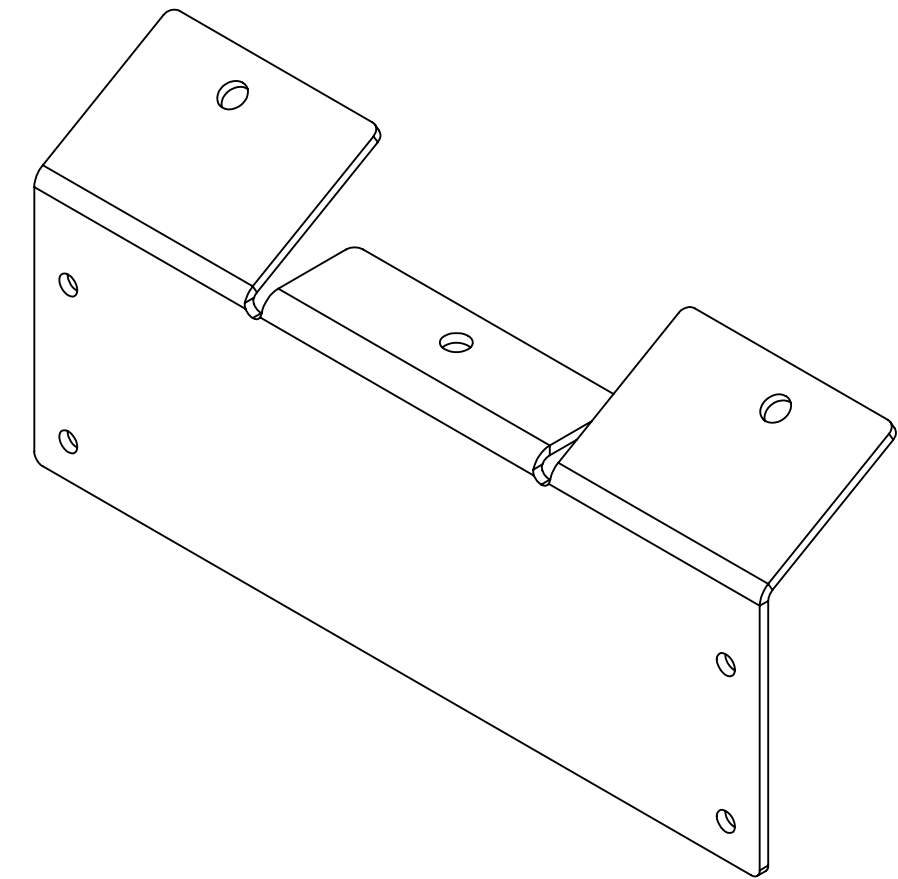
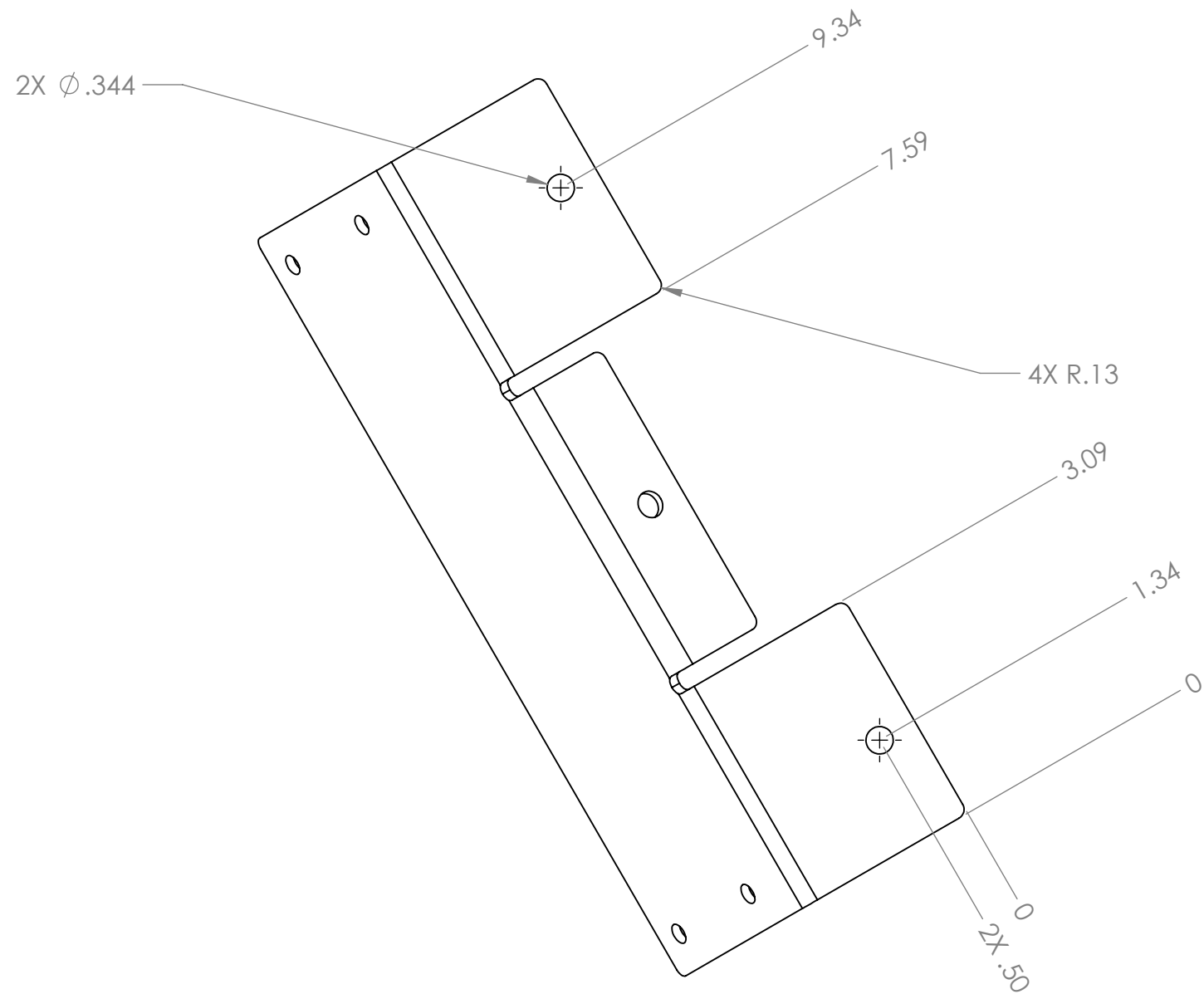
SCALE: 2:3 SHEET 1 OF 1

4

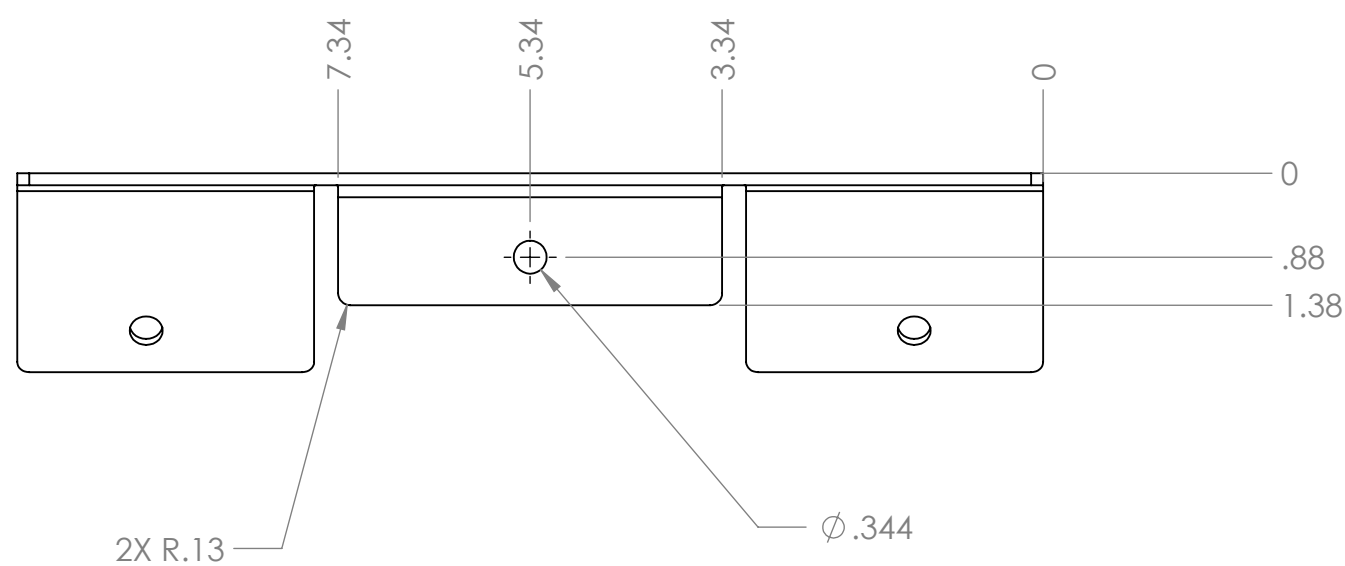
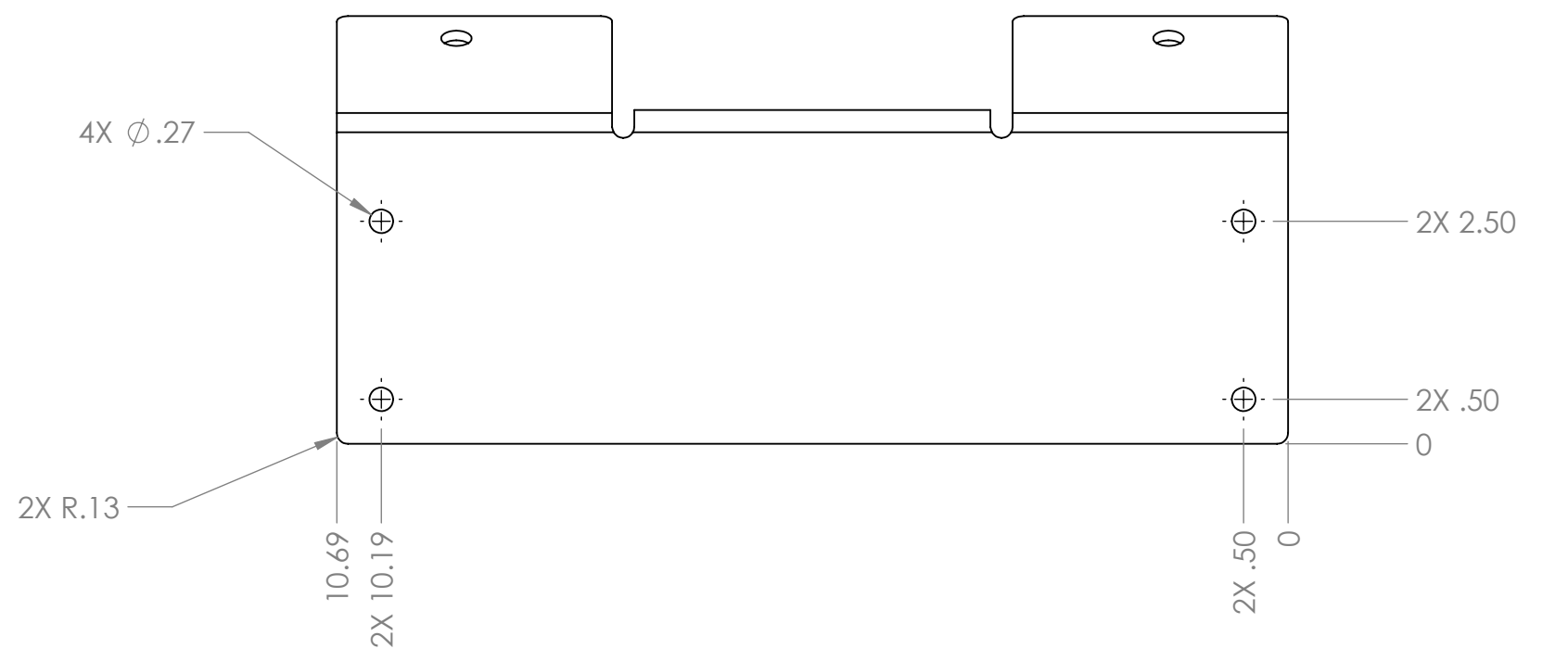
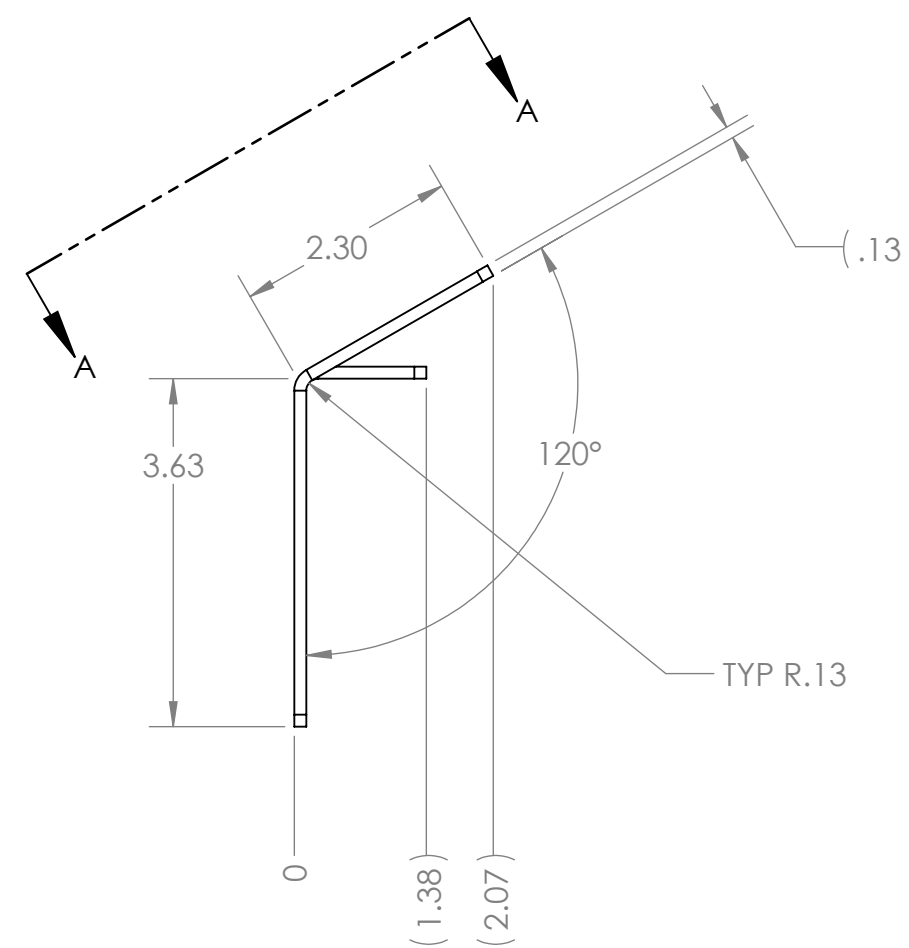
3

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VIEW A-A



UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ± 1/16  
 ANGULAR: MACH ± 1° BEND ± 1°  
 TWO PLACE DECIMAL ± .02  
 THREE PLACE DECIMAL ± .010

**MATERIAL/FINISH:**  
 8GA 5052 Aluminum

DO NOT SCALE DRAWING

BEND	NAME	DATE
DRAWN	NE	10/1/2024

**PROPRIETARY AND CONFIDENTIAL**  
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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.



TITLE: **Coral Catcher Bracket**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25305-01	

SCALE: 1:2 SHEET 1 OF 1

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D

C

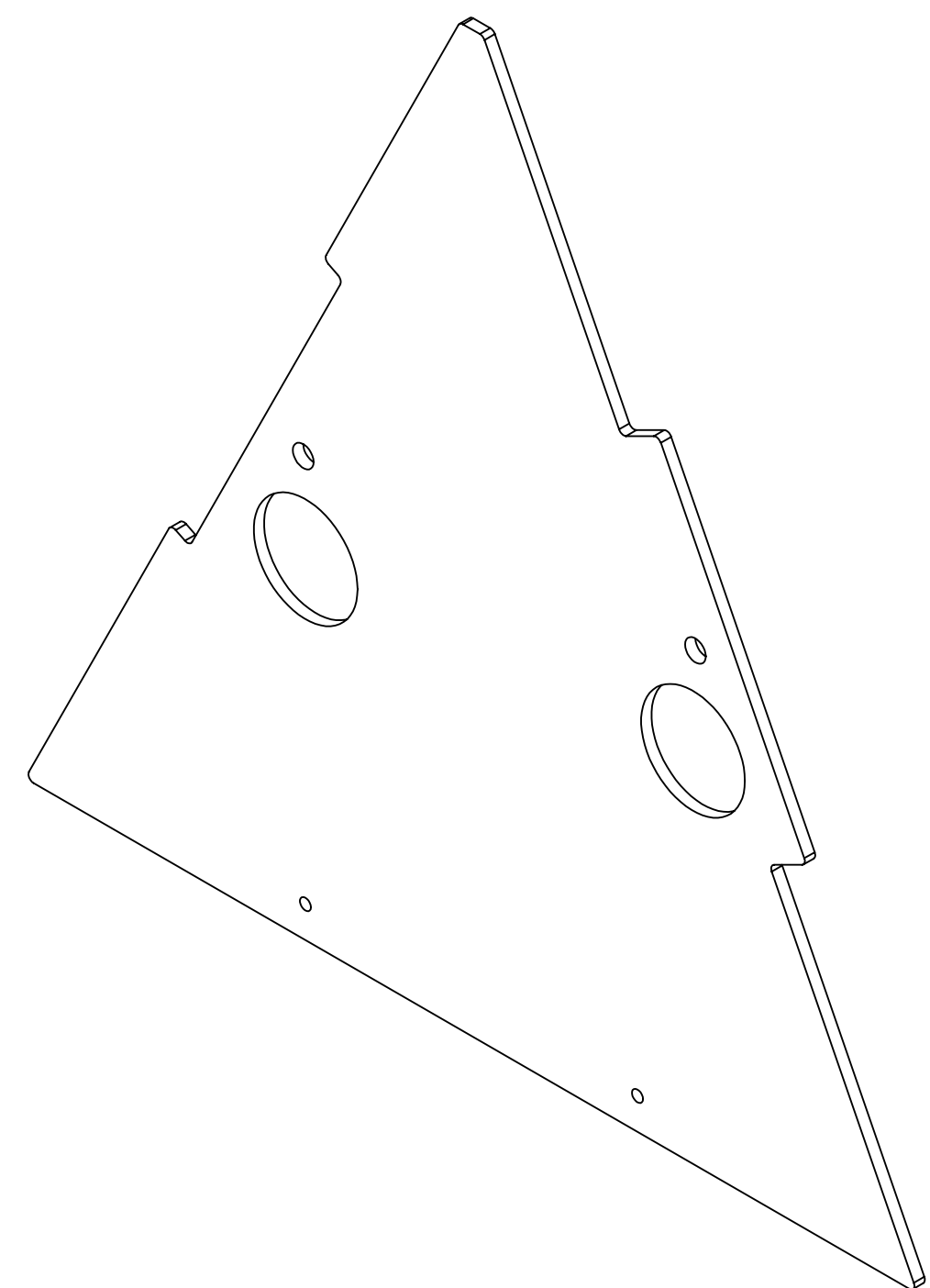
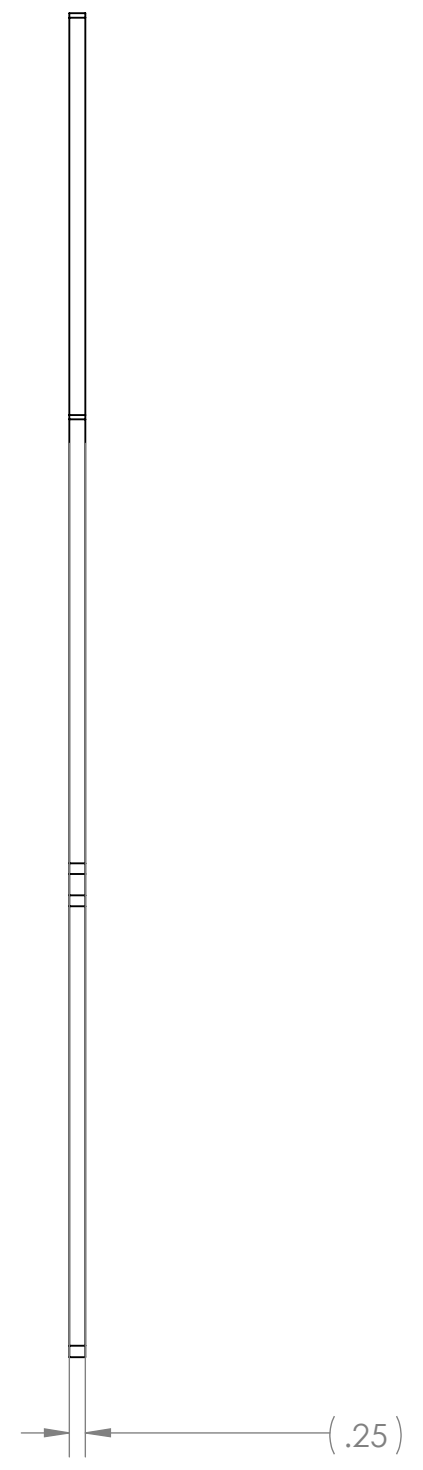
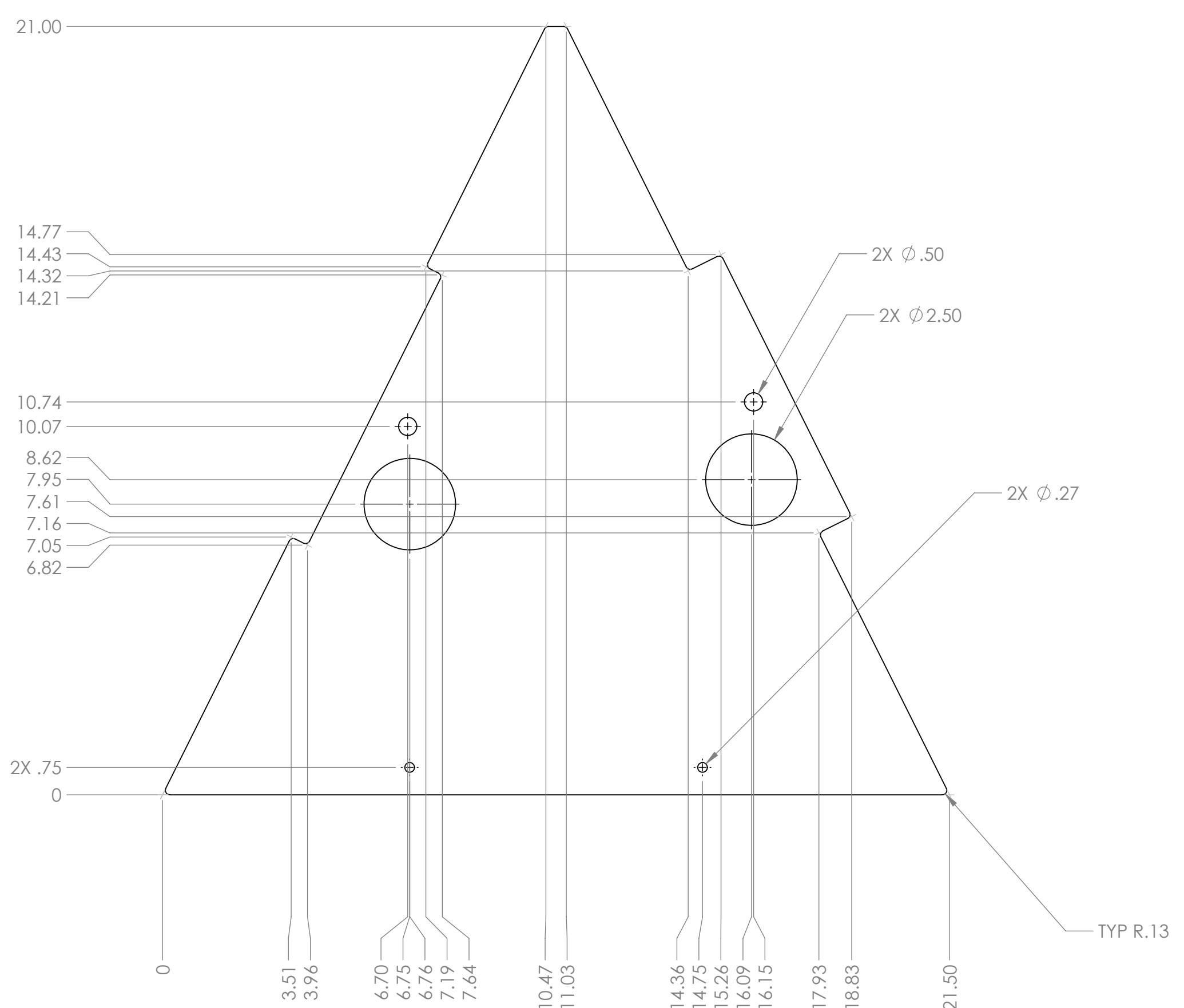
C

B

B

A

A





UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL  $\pm 1/16$   
 ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
 TWO PLACE DECIMAL  $\pm .01$   
 THREE PLACE DECIMAL  $\pm .005$

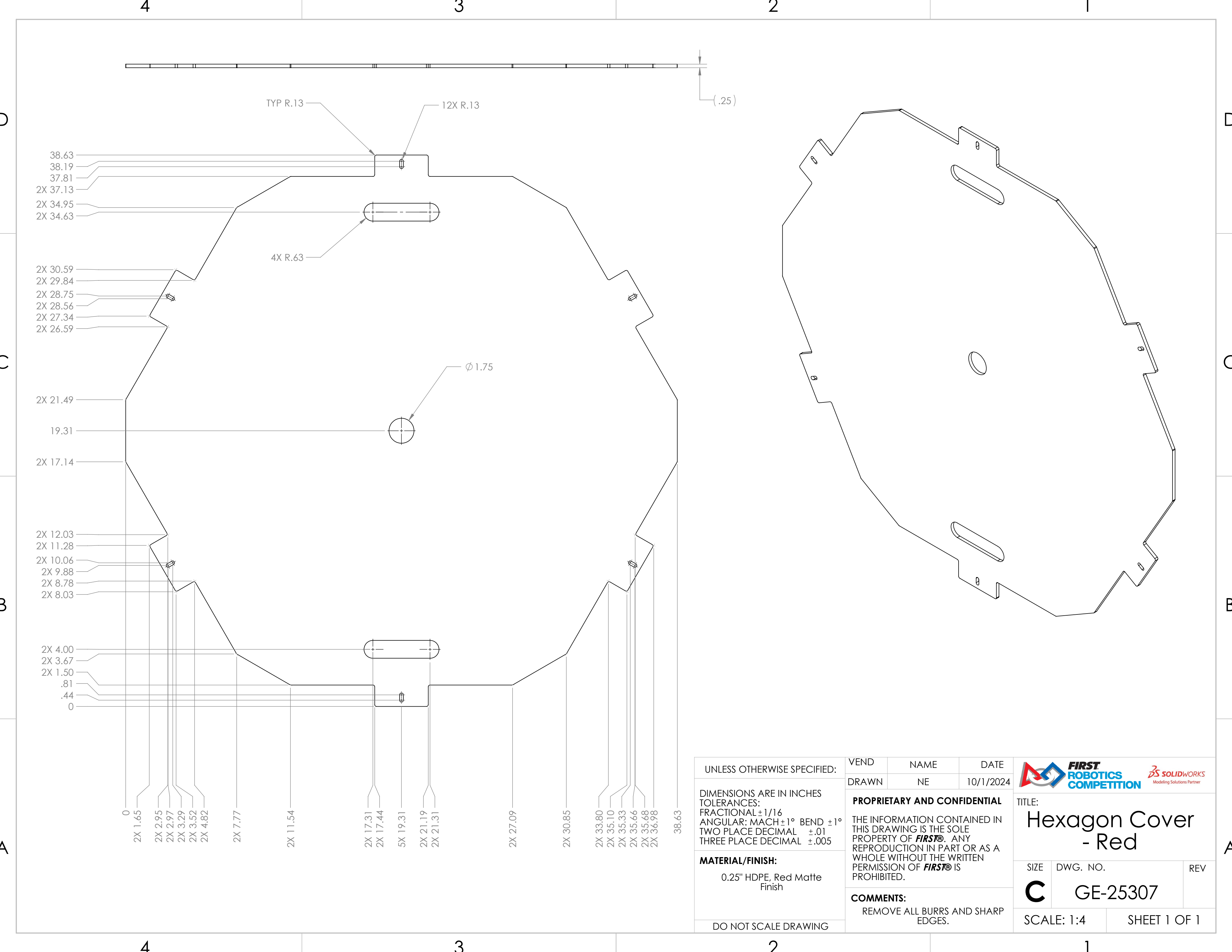
**MATERIAL/FINISH:**  
 0.25" Polycarbonate

DO NOT SCALE DRAWING

VEND	NAME	DATE
DRAWN	NE	10/1/2024
<b>PROPRIETARY AND CONFIDENTIAL</b>		
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.		
<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		

 		
TITLE: <b>Coral Catcher Side</b>		
SIZE	DWG. NO.	REV
<b>C</b>	GE-25306	
SCALE: 1:3		SHEET 1 OF 1





- 38.63
- 38.19
- 37.81
- 2X 37.13
- 2X 34.95
- 2X 34.63
- 2X 30.59
- 2X 29.84
- 2X 28.75
- 2X 28.56
- 2X 27.34
- 2X 26.59
- 2X 21.49
- 19.31
- 2X 17.14
- 2X 12.03
- 2X 11.28
- 2X 10.06
- 2X 9.88
- 2X 8.78
- 2X 8.03
- 2X 4.00
- 2X 3.67
- 2X 1.50
- .81
- .44
- 0
- 0
- 1.65
- 2.95
- 2.97
- 3.29
- 3.52
- 4.82
- 7.77
- 11.54
- 17.31
- 17.44
- 19.31
- 21.19
- 21.31
- 27.09
- 30.85
- 33.80
- 35.10
- 35.33
- 35.66
- 35.68
- 36.98
- 38.63

TYP R.13



12X R.13

4X R.63

Ø 1.75

(.25)

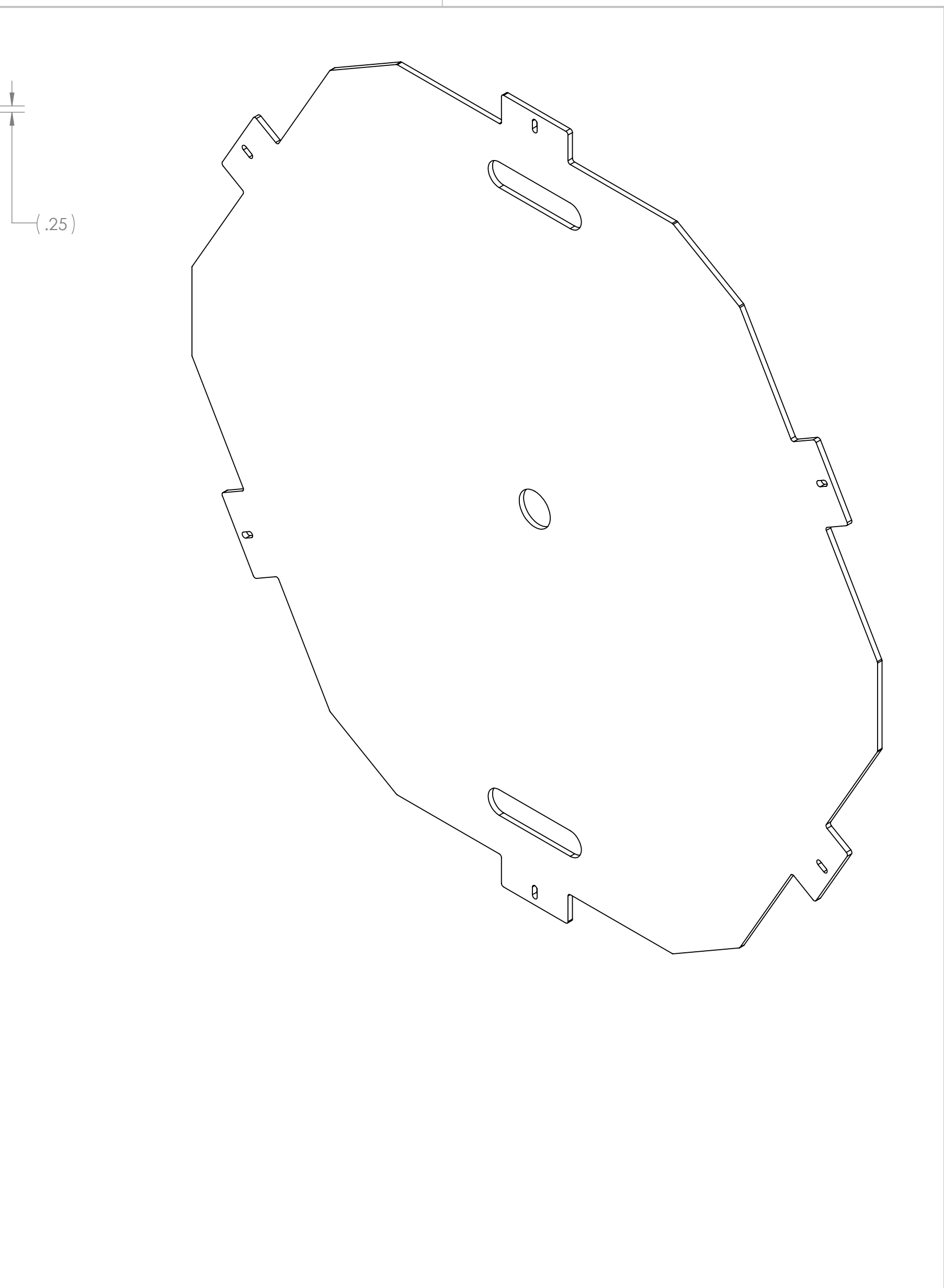
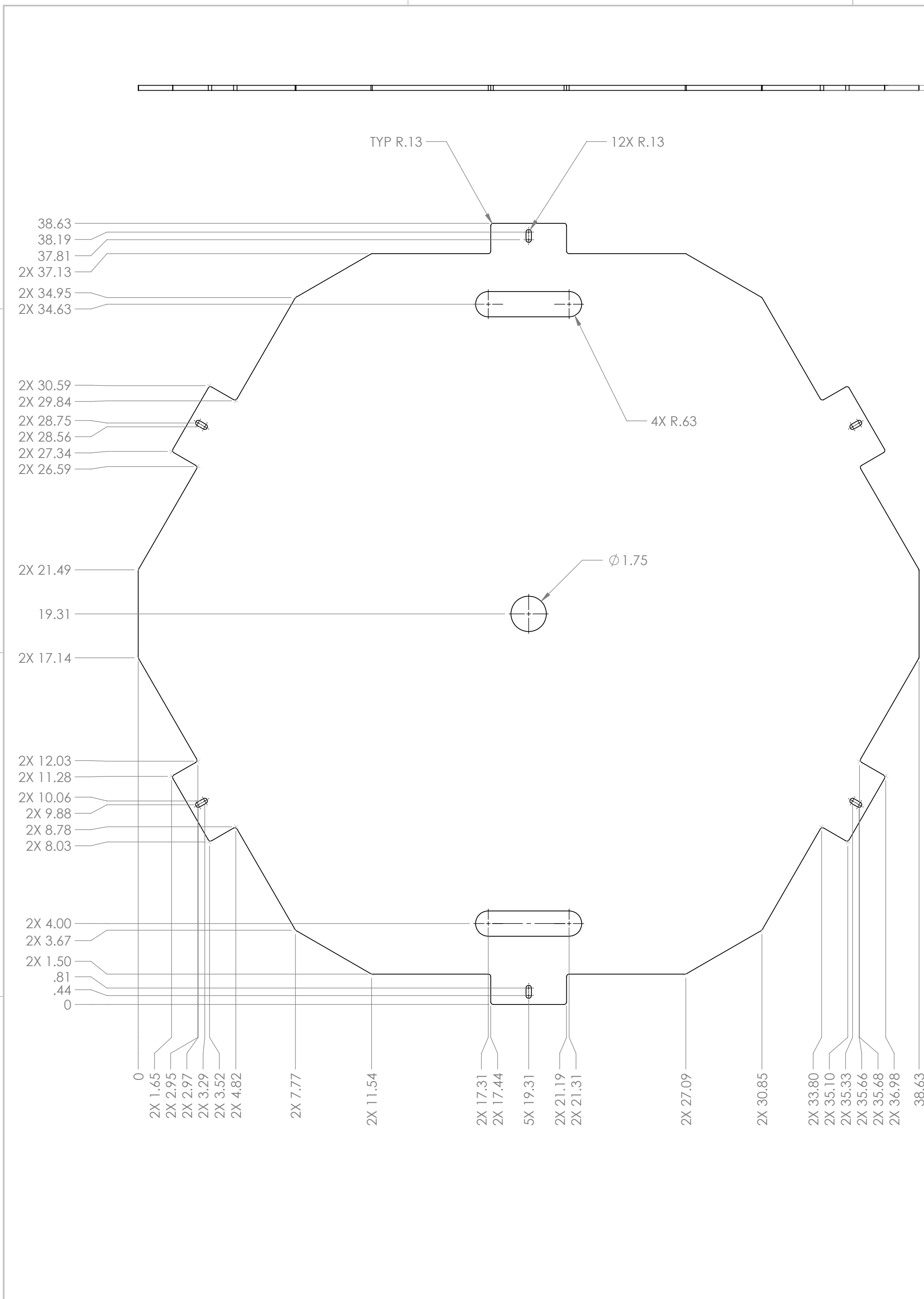
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .01 THREE PLACE DECIMAL ± .005	VEND	NAME	DATE
	DRAWN	NE	10/1/2024
<b>MATERIAL/FINISH:</b> 0.25" HDPE, Red Matte Finish	<b>PROPRIETARY AND CONFIDENTIAL</b>		
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.		
DO NOT SCALE DRAWING	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		

TITLE:  
**Hexagon Cover - Red**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25307	
SCALE: 1:4		SHEET 1 OF 1





UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL  $\pm 1/16$   
 ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
 TWO PLACE DECIMAL  $\pm .01$   
 THREE PLACE DECIMAL  $\pm .005$

**MATERIAL/FINISH:**  
 0.25" HDPE, Blue Matte Finish

DO NOT SCALE DRAWING

VEND	NAME	DATE
DRAWN	NE	10/1/2024

**PROPRIETARY AND CONFIDENTIAL**  
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF **FIRST**. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF **FIRST** IS PROHIBITED.

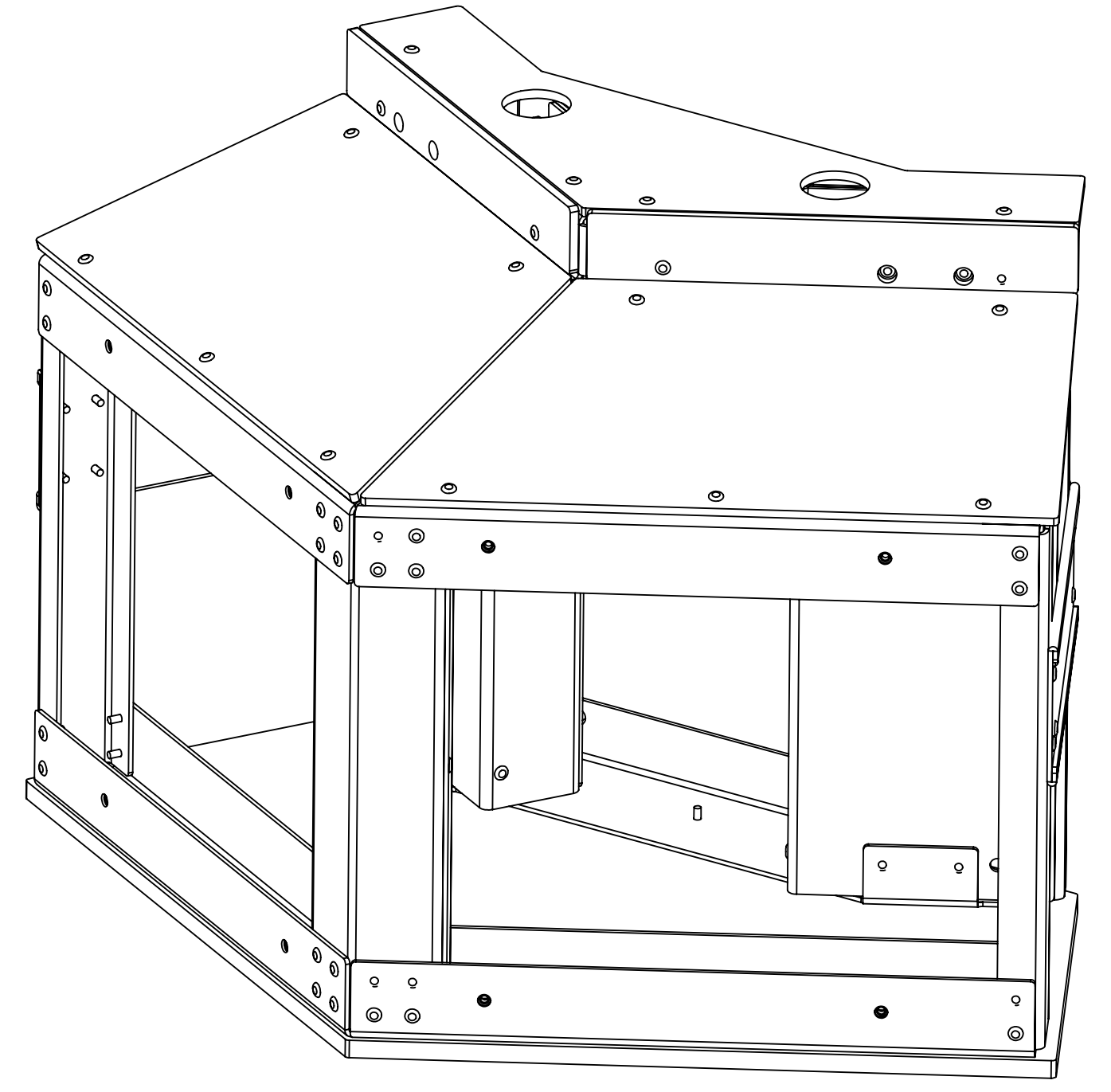
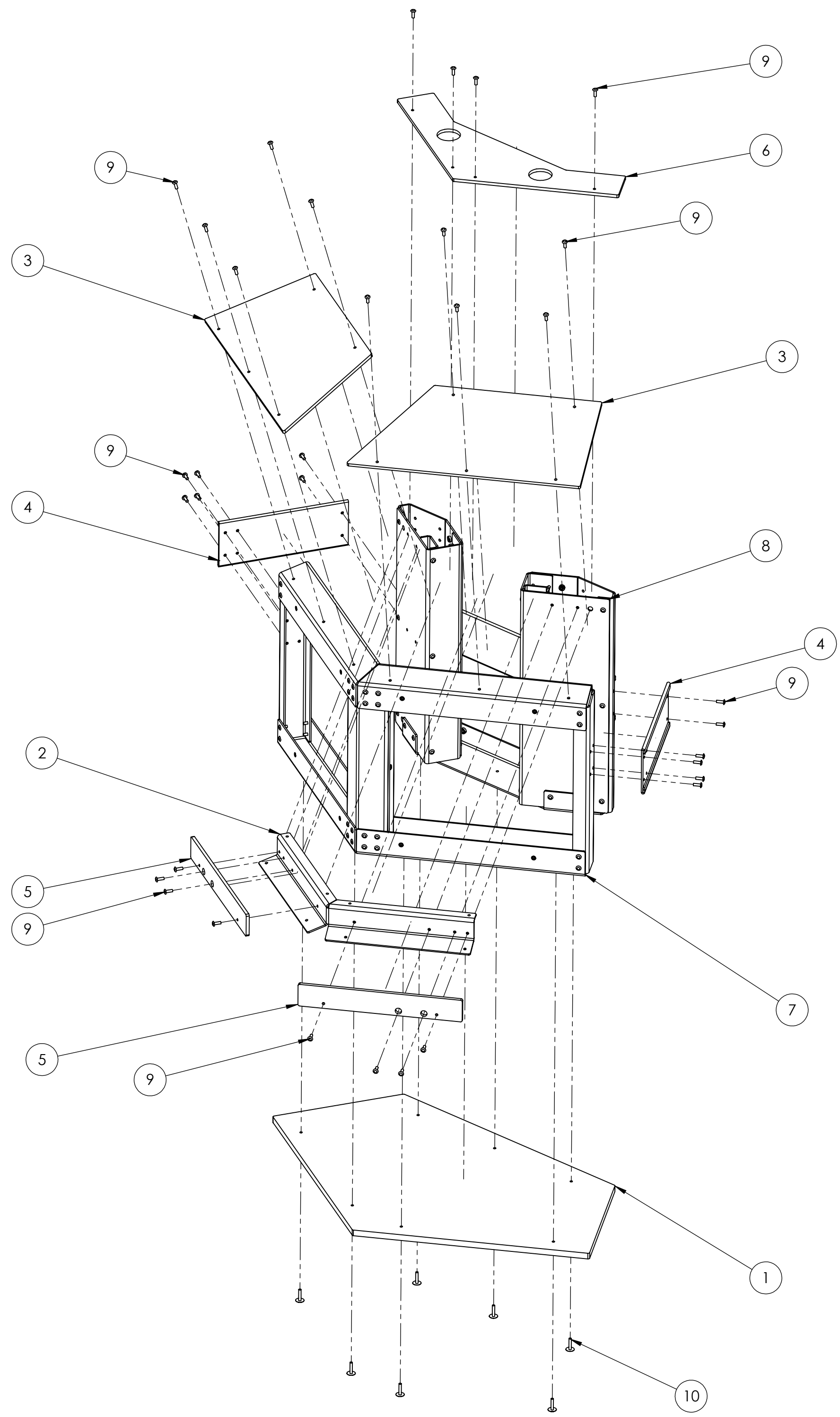
**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.



TITLE:  
**Hexagon Cover - Blue**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25308	

SCALE: 1:4 SHEET 1 OF 1



NOTES:  
1. ASSEMBLE COMPONENTS IN DISPLAYED ORIENTATION

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25311	Slice Base	1
2	GE-25312	Trough Floor Bracket	1
3	GE-25313	Trough Floor	2
4	GE-25314	Slice Outside Depth Support	2
5	GE-25315	Trough Back	2
6	GE-25316	Slice Top Cover	1
7	GE-25320	Outer Slice Assembly	1
8	GE-25330	Inner Slice Assembly	1
9	rivet_.1875_.251-.375	3/16" Aluminum Rivet, .251-.375 Grip Range	34
10	rivet_.1875_.625-.0.75_largeHead	rivet_.1875_.625-0.75_largeHead	7

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL  $\pm 1/16$   
 ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
 TWO PLACE DECIMAL  $\pm .01$   
 THREE PLACE DECIMAL  $\pm .005$   
**MATERIAL/FINISH:**  
 DO NOT SCALE DRAWING

VEND NAME DATE  
 DRAWN NE 10/1/2024  
**PROPRIETARY AND CONFIDENTIAL**  
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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.

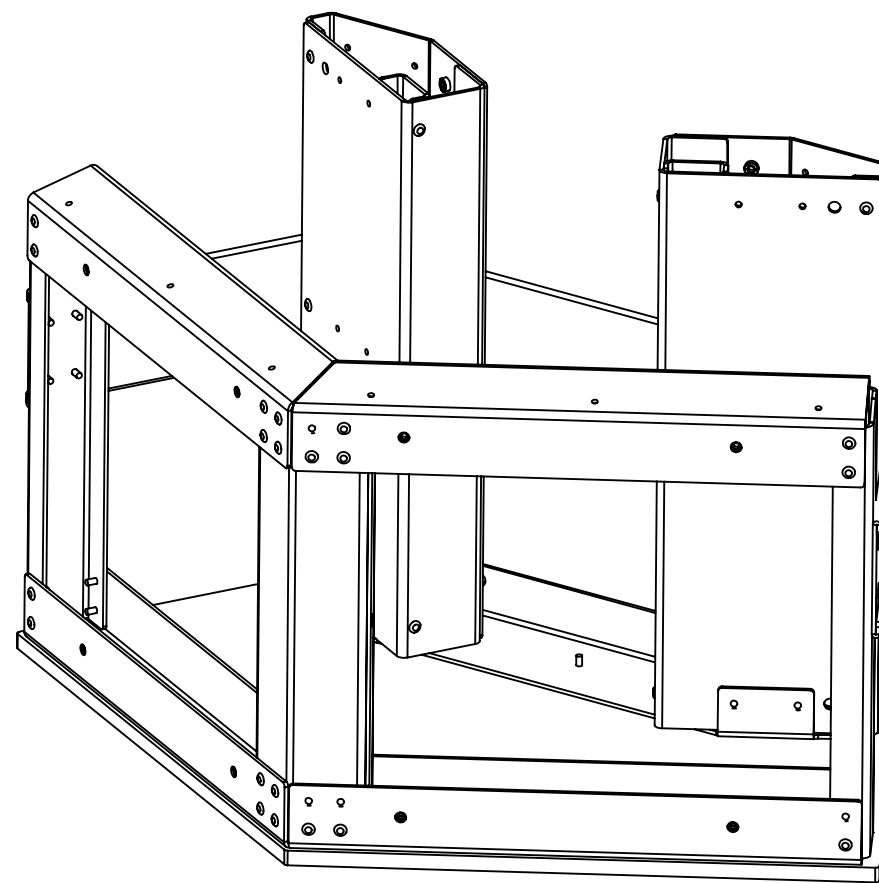
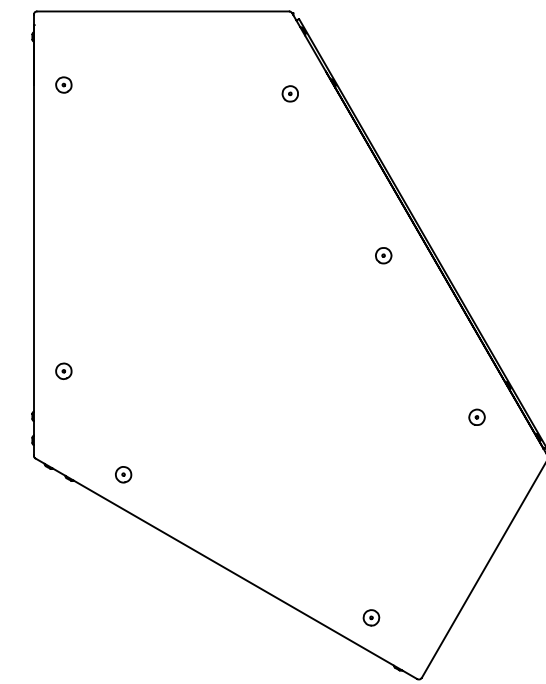
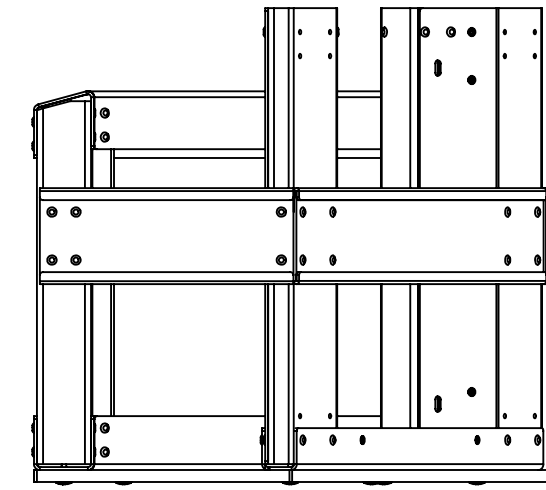
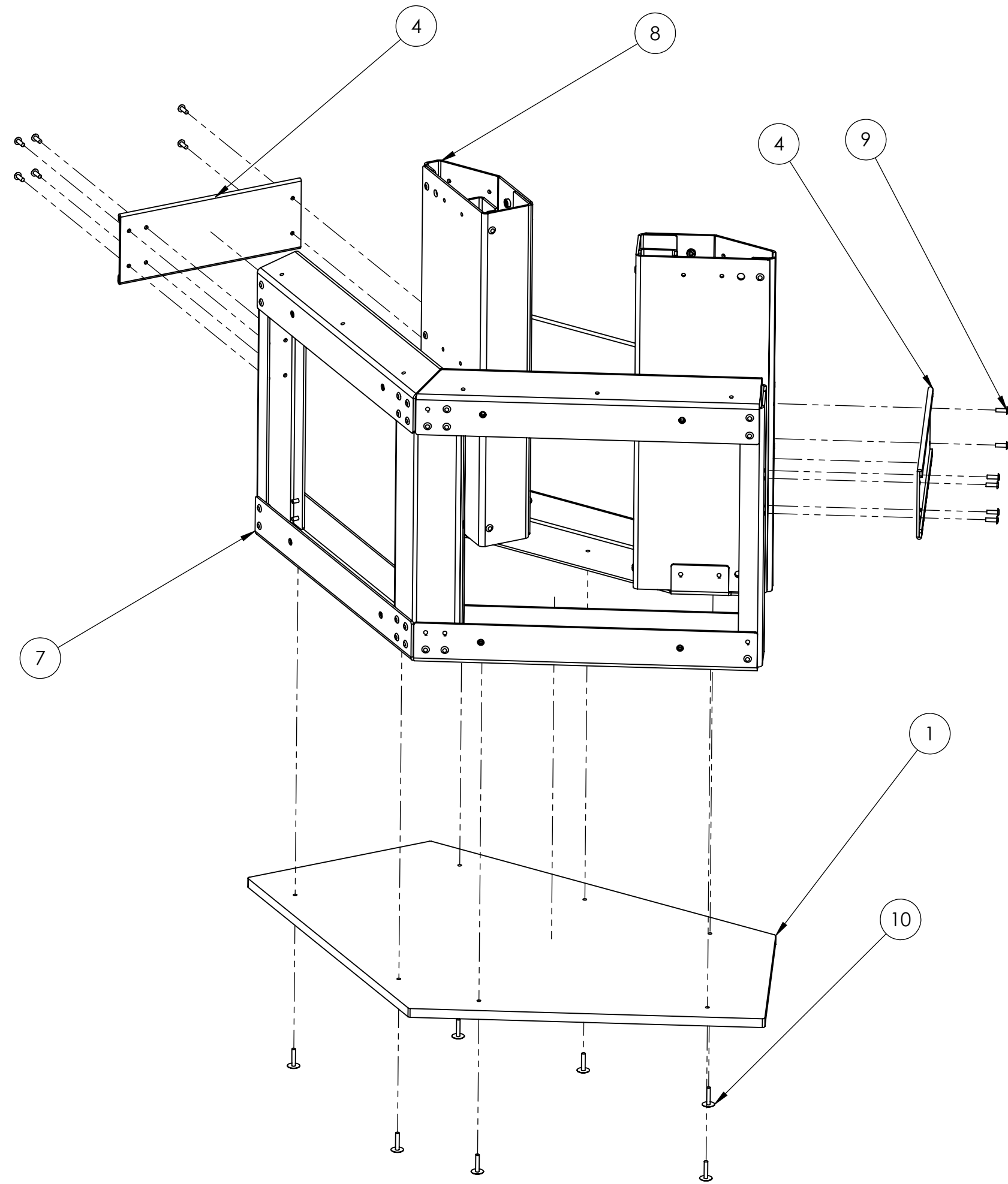
TITLE:  
**Goal Slice Assembly**  
 SIZE DWG. NO. REV  
**C** GE-25310  
 SCALE: 1:6 SHEET 1 OF 5

4

3

2

1



STARTING WITH (1), FASTEN (8) AND (7) TO (1) THROUGH THE  
 BOTTOM WITH 7X (10). ON THE SIDES OF THE STRUCTURE ADD 2X (4) TO  
 (8) AND (7) WITH 6X (9) ON EACH SIDE.

UNLESS OTHERWISE SPECIFIED:	VEND	NAME	DATE	TITLE: <b>Goal Slice Assembly</b>
	DRAWN	NE	10/1/2024	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005	<b>PROPRIETARY AND CONFIDENTIAL</b>			SIZE DWG. NO. REV
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			
<b>MATERIAL/FINISH:</b>	<b>COMMENTS:</b>			SCALE: 1:6 SHEET 2 OF 5
	REMOVE ALL BURRS AND SHARP EDGES.			
DO NOT SCALE DRAWING				

4

3

2

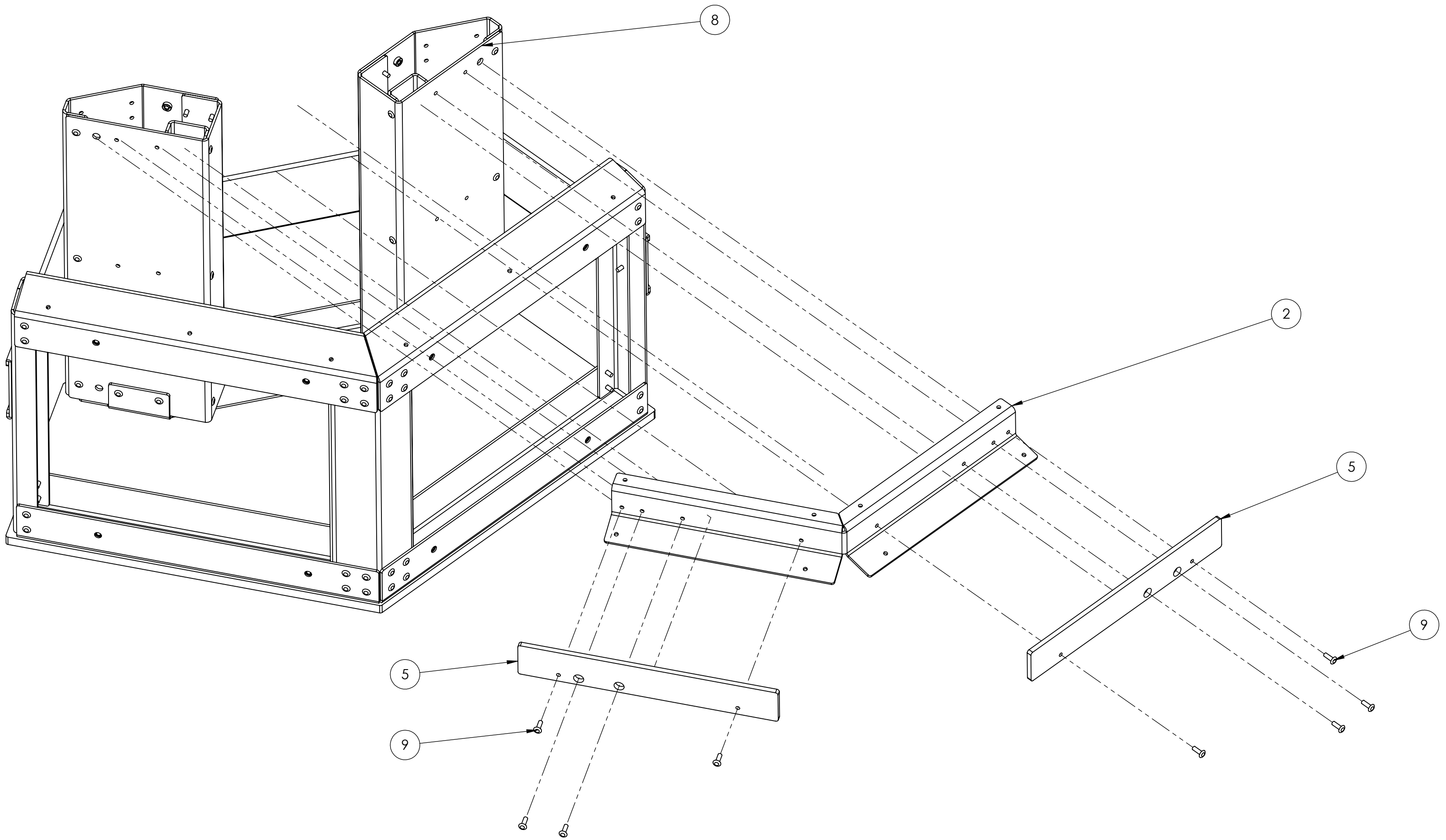
1

4

3

2

1



ATTACH 2X (5) TO (2) WITH 2X (9) EACH. THEN, ATTACH (2) TO (8) WITH 4X MORE (9).

UNLESS OTHERWISE SPECIFIED:	VEND	NAME	DATE	TITLE: <b>Goal Slice Assembly</b>
	DRAWN	NE	10/1/2024	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005	<b>PROPRIETARY AND CONFIDENTIAL</b>			SIZE <b>C</b>
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			
<b>MATERIAL/FINISH:</b>	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			REV
DO NOT SCALE DRAWING	SCALE: 1:12		SHEET 3 OF 5	

4

3

2

1

D

D

C

C

B

B

A

A

4

3

2

1

D

D

C

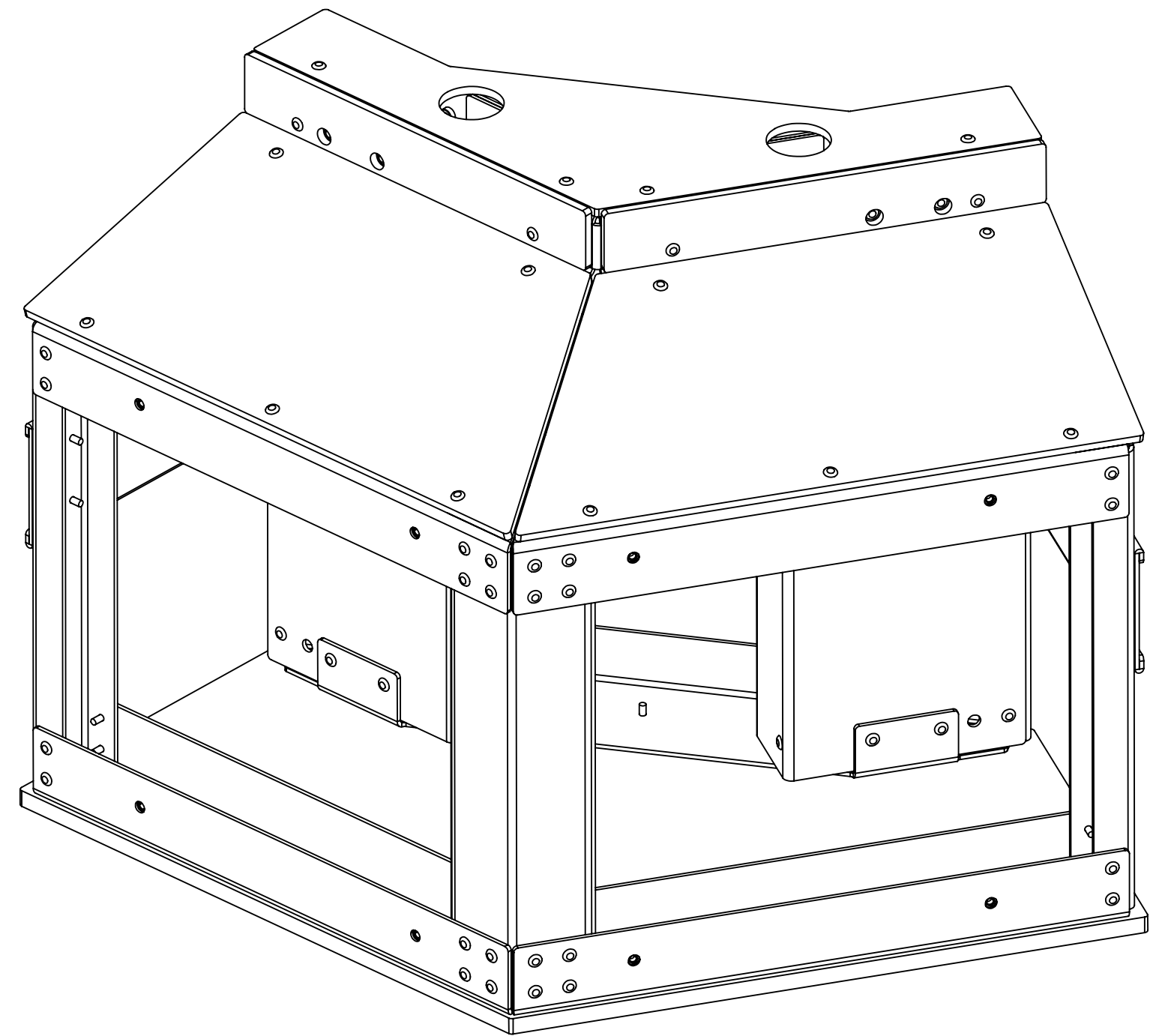
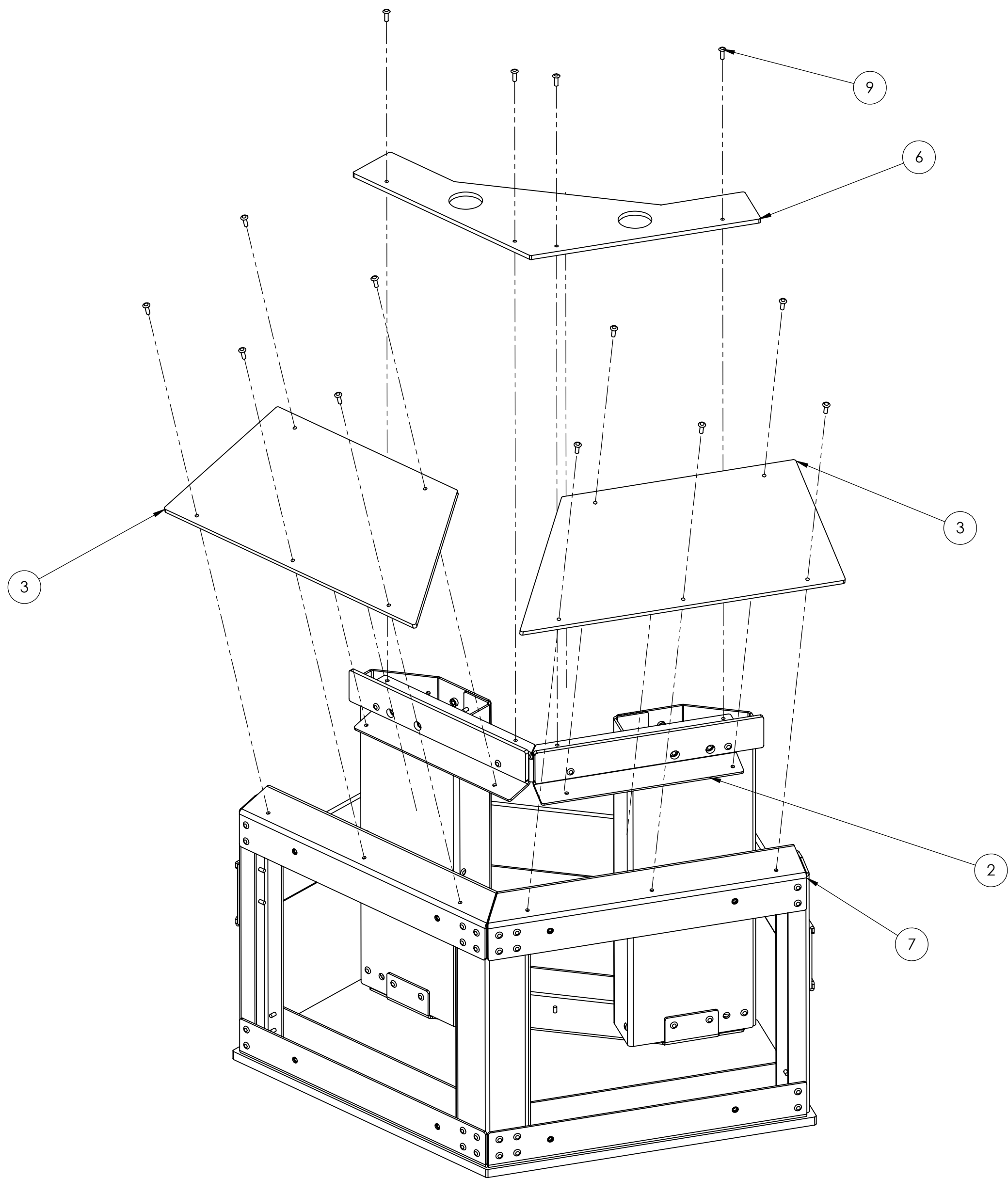
C

B

B

A

A



FASTEN 2X (3) TO (2) AND (7) WITH 5X (9)  
 EACH. FINALLY, ATTACH (6) TO (2) WITH 4X (9)

UNLESS OTHERWISE SPECIFIED:	VEND	NAME	DATE	TITLE:
	DRAWN	NE	10/1/2024	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005	<b>PROPRIETARY AND CONFIDENTIAL</b>			SIZE DWG. NO. REV
<b>MATERIAL/FINISH:</b>	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			
<b>COMMENTS:</b>	REMOVE ALL BURRS AND SHARP EDGES.			SCALE: 1:12 SHEET 4 OF 5
DO NOT SCALE DRAWING				

4

3

2

1

4

3

2

1

D

D

C

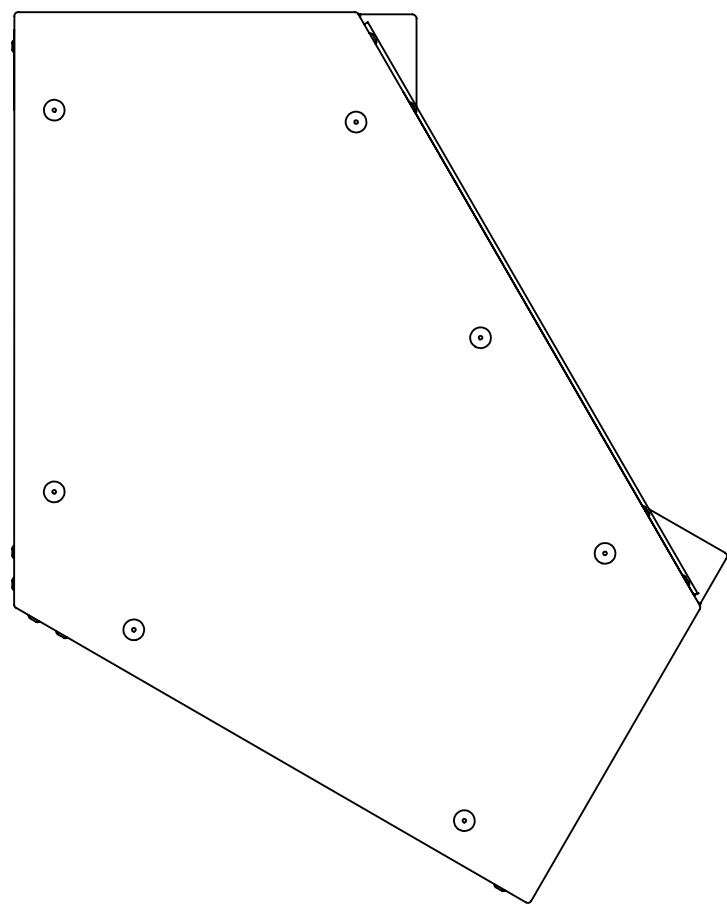
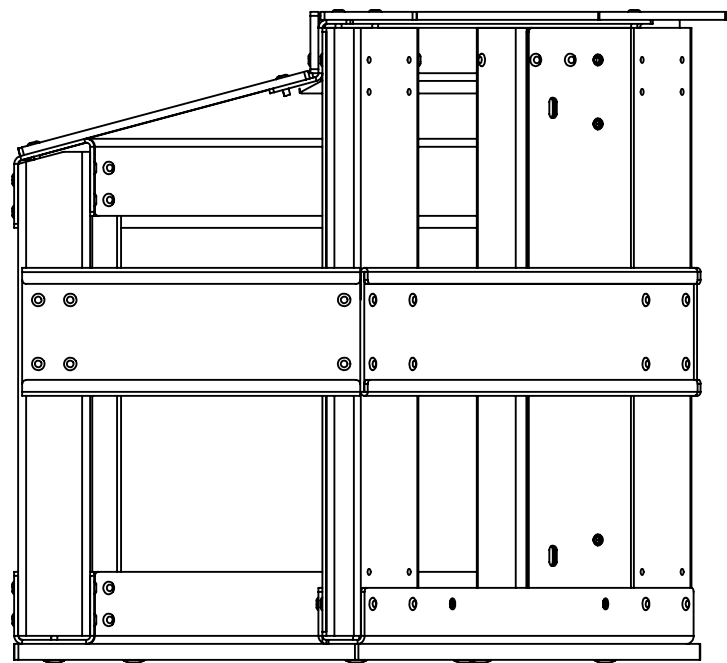
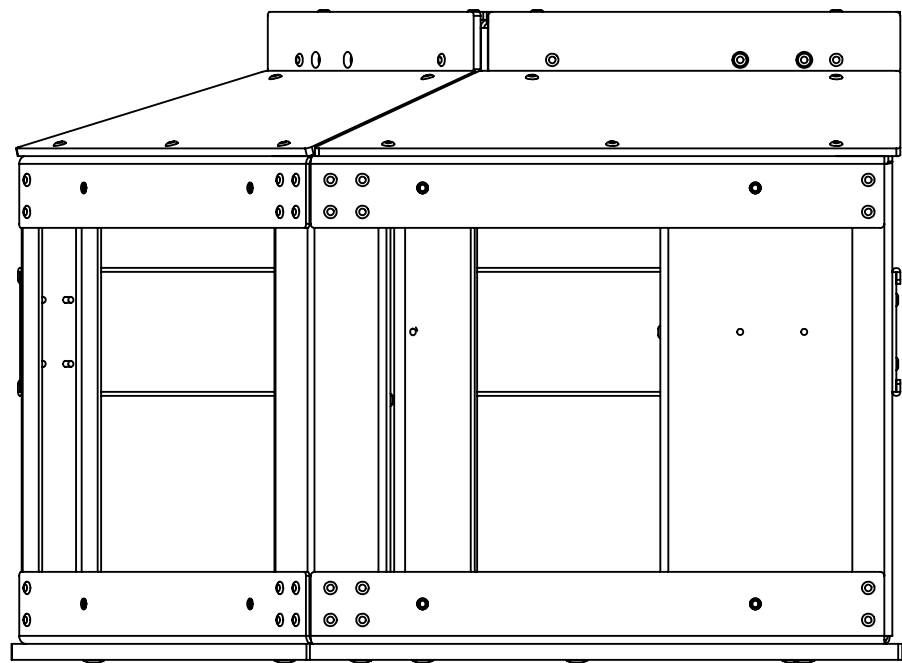
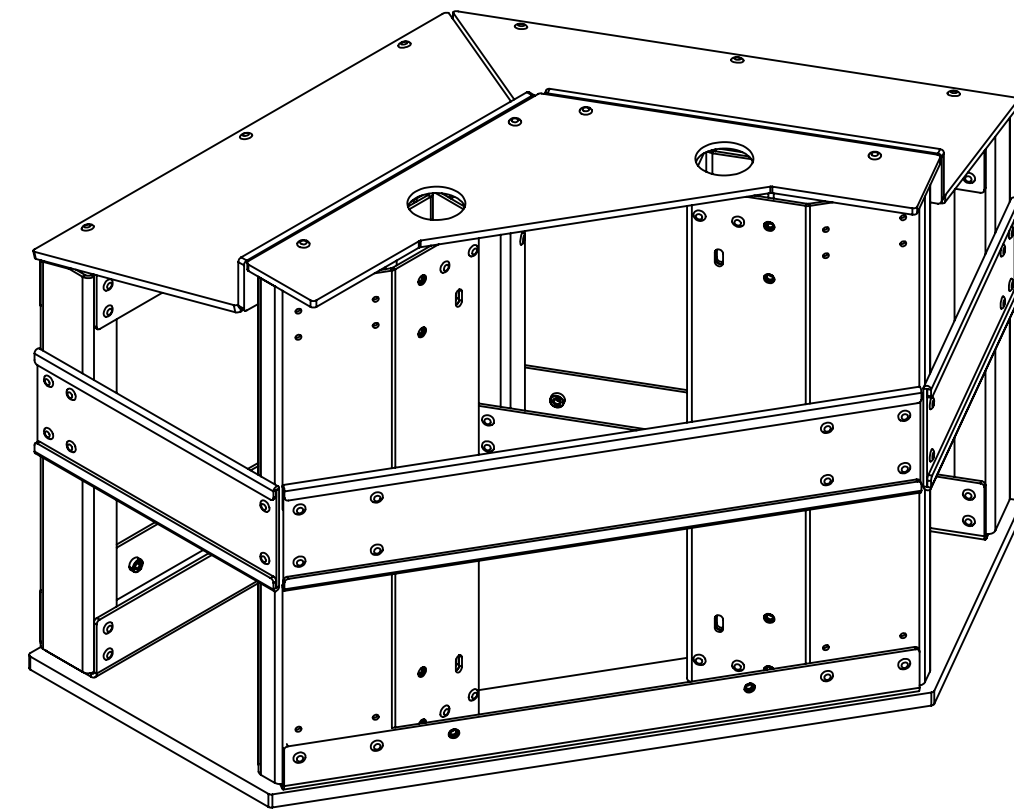
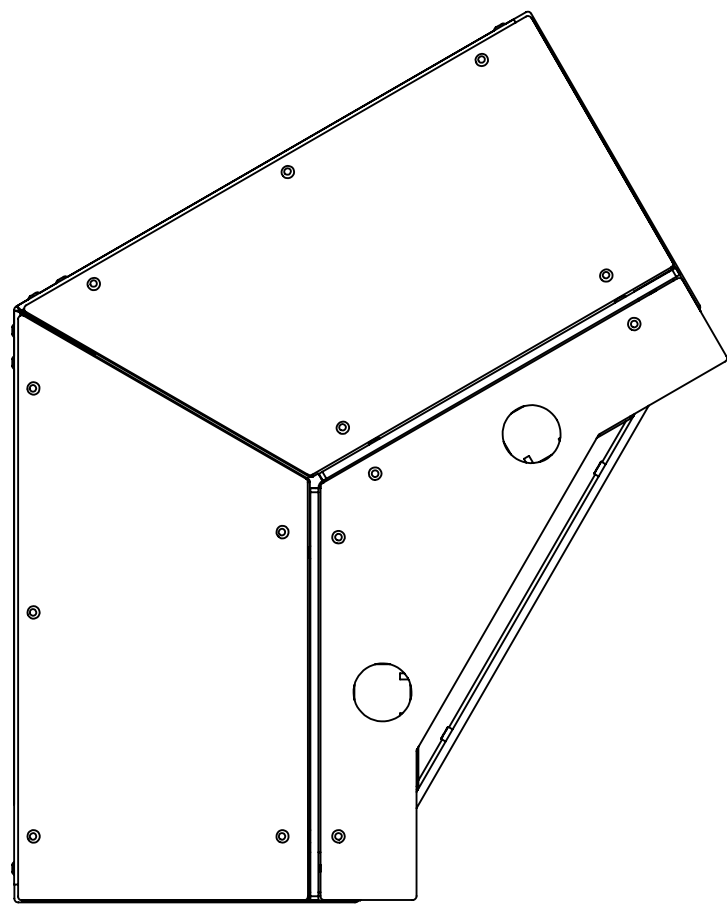
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL  $\pm 1/16$   
 ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
 TWO PLACE DECIMAL  $\pm .01$   
 THREE PLACE DECIMAL  $\pm .005$

**MATERIAL/FINISH:**

DO NOT SCALE DRAWING

VEND	NAME	DATE
DRAWN	NE	10/1/2024

**PROPRIETARY AND CONFIDENTIAL**  
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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.



TITLE:  
**Goal Slice Assembly**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25310	

SCALE: 1:6 SHEET 5 OF 5

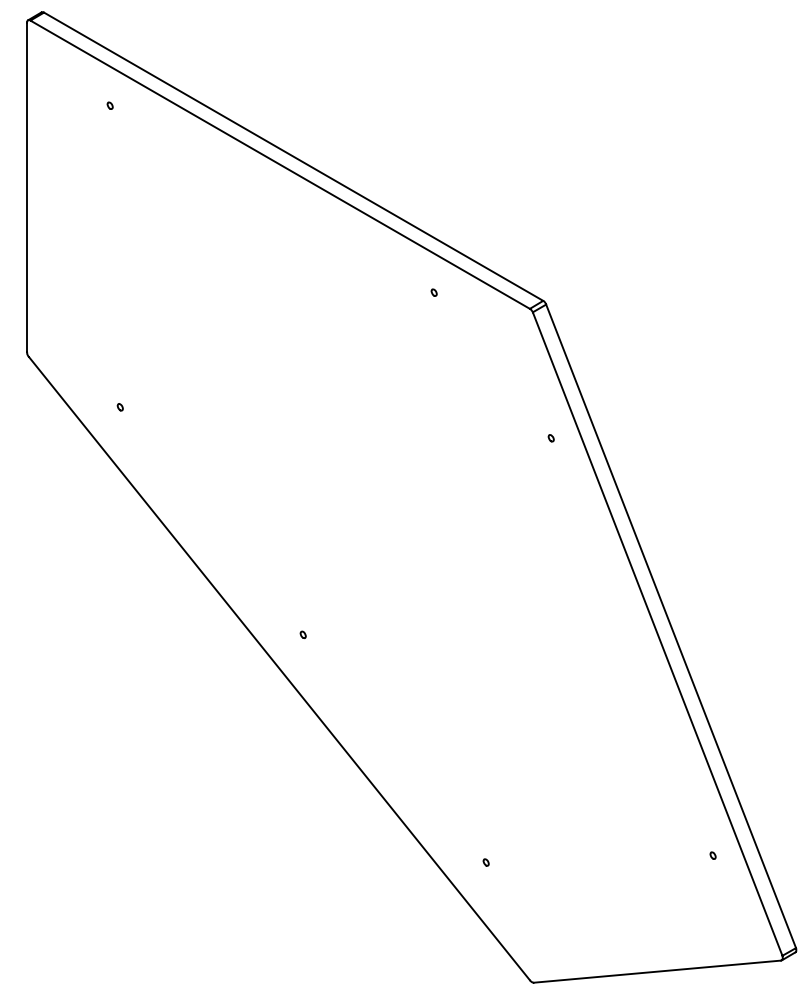
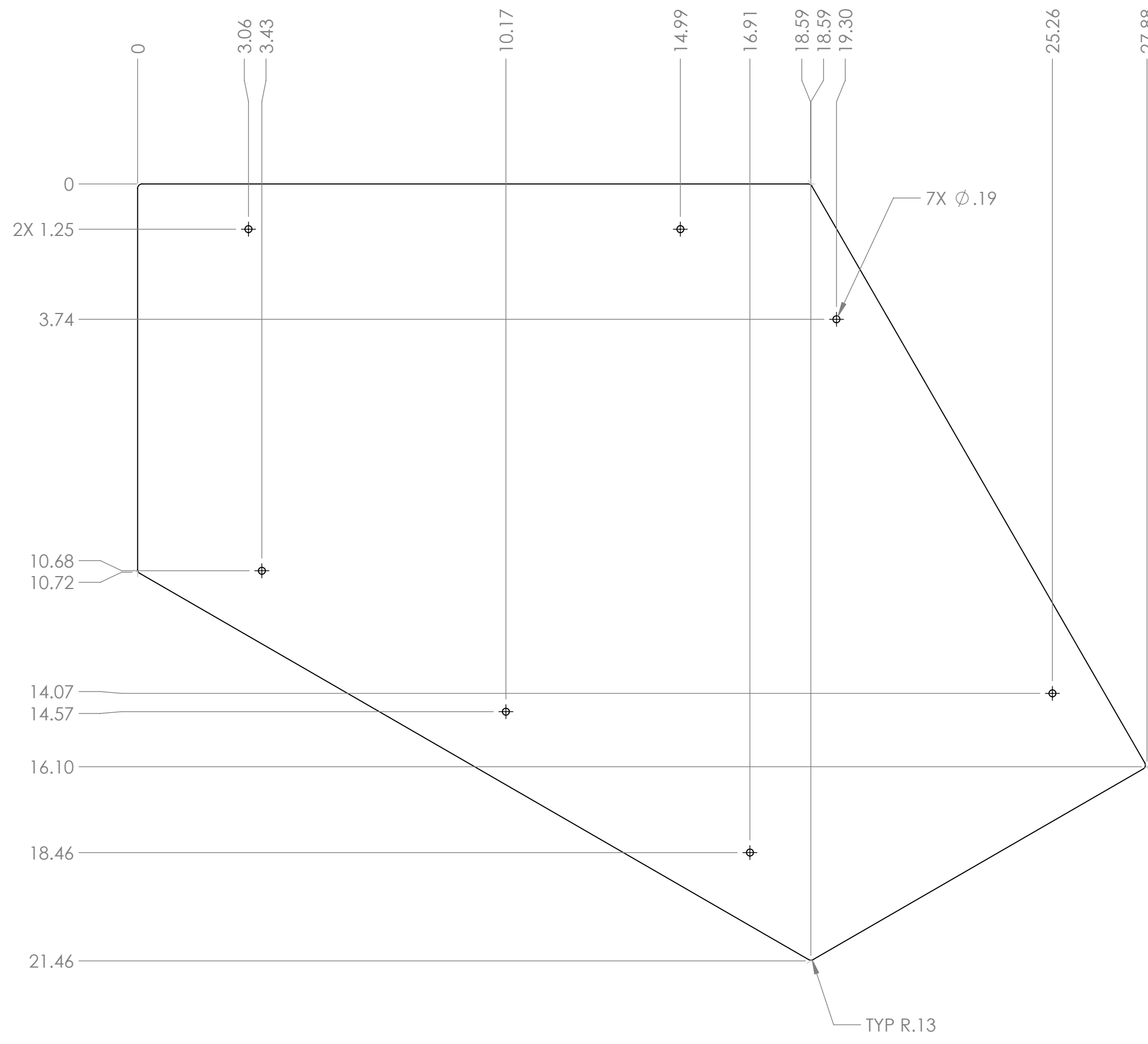
4


3

2

1





UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .005$  <b>MATERIAL/FINISH:</b> 0.5" HDPE, Black Matte Finish  DO NOT SCALE DRAWING	VEND	NAME	DATE		
	DRAWN	NE	10/1/2024		
	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.				TITLE:
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.				Slice Base  SIZE DWG. NO. REV <b>C</b> GE-25311 SCALE: 1:3 SHEET 1 OF 1

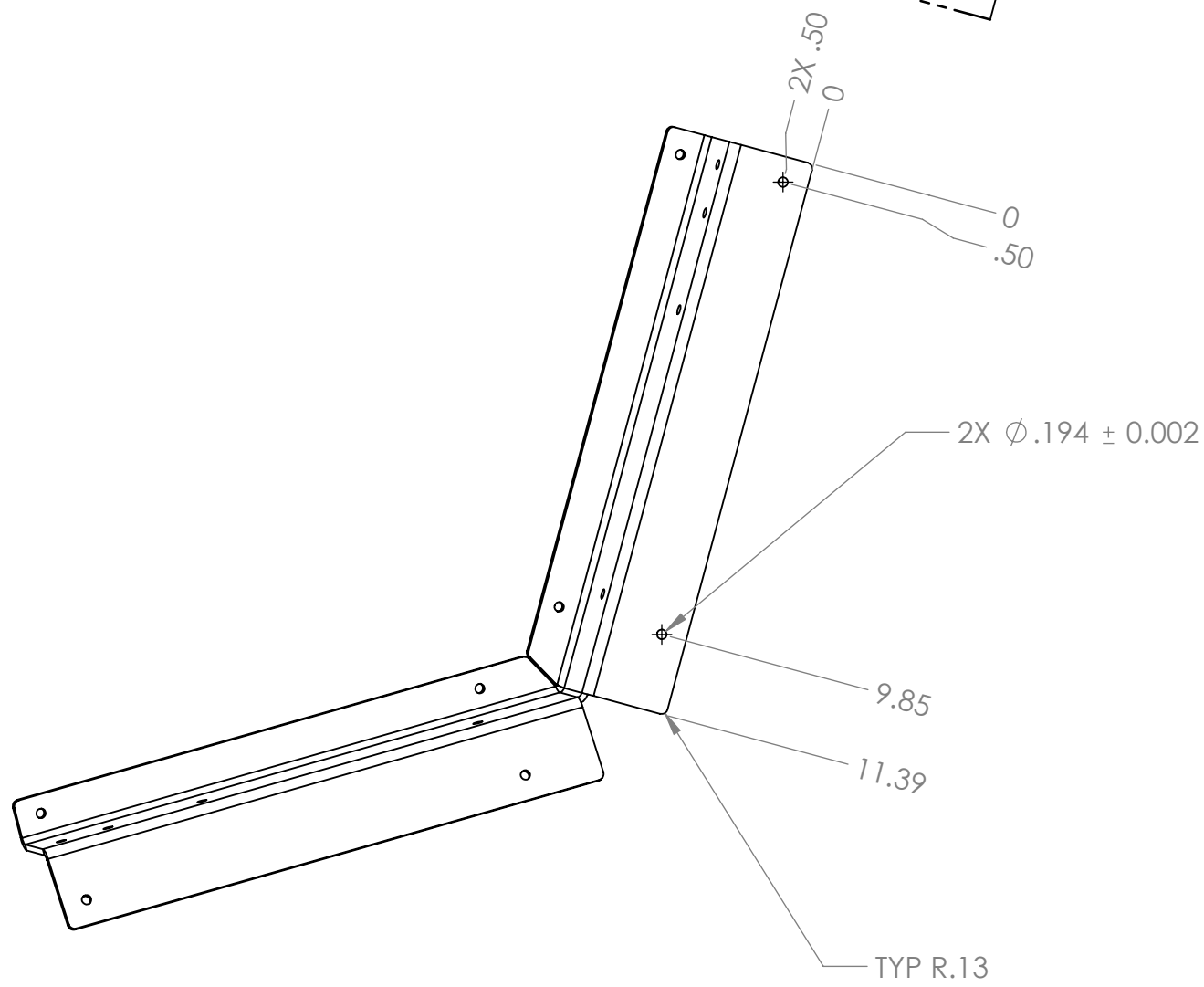
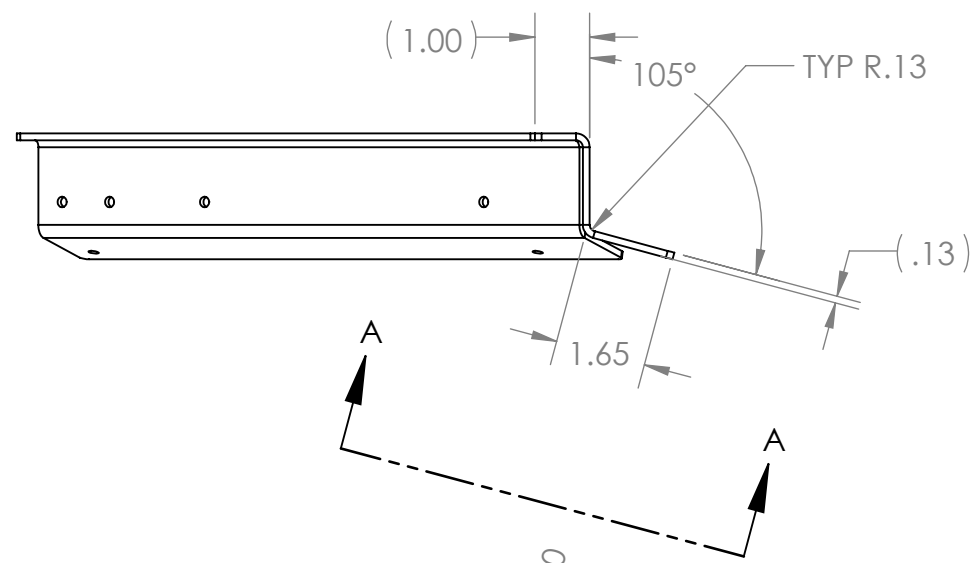
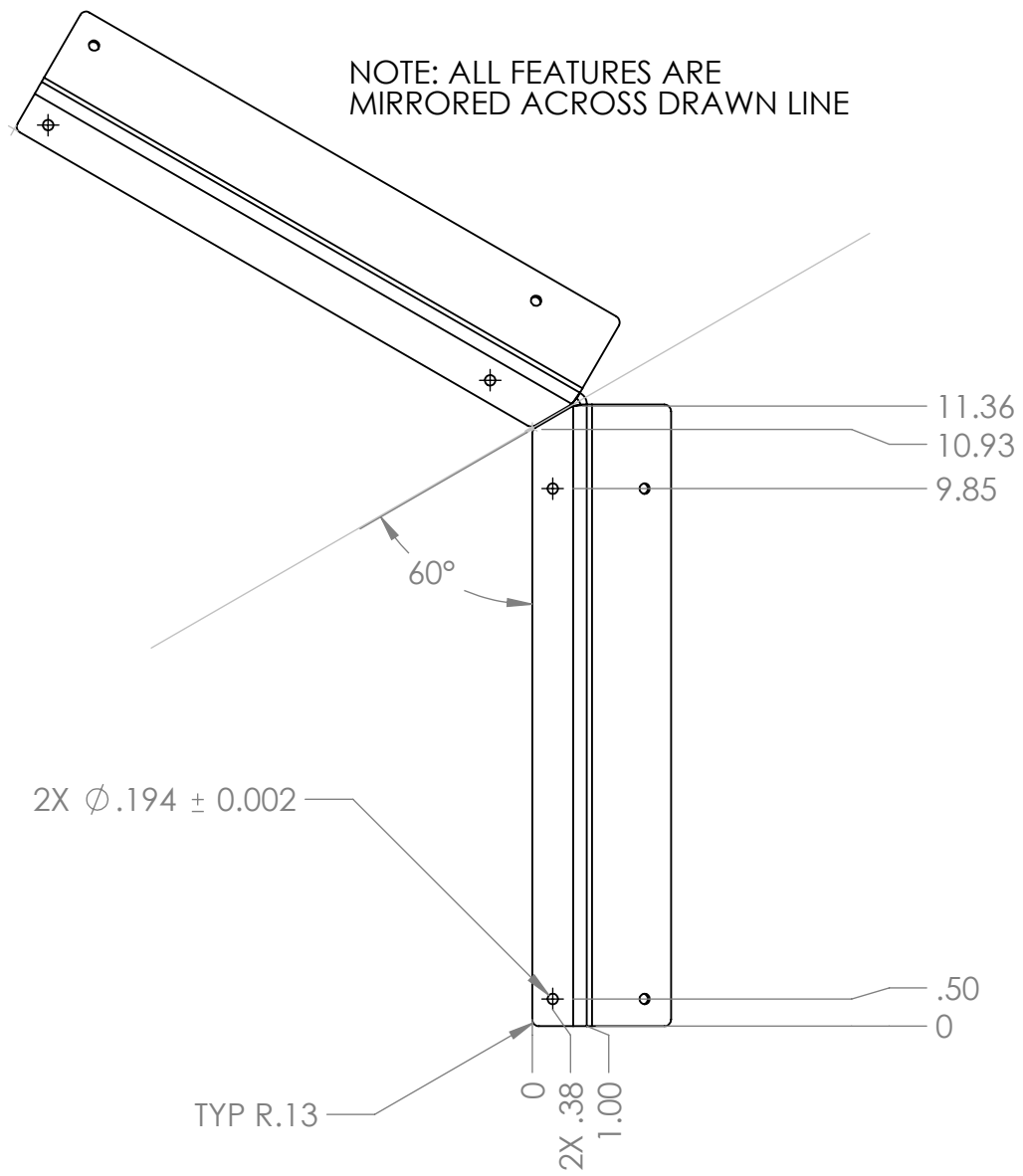
4

3

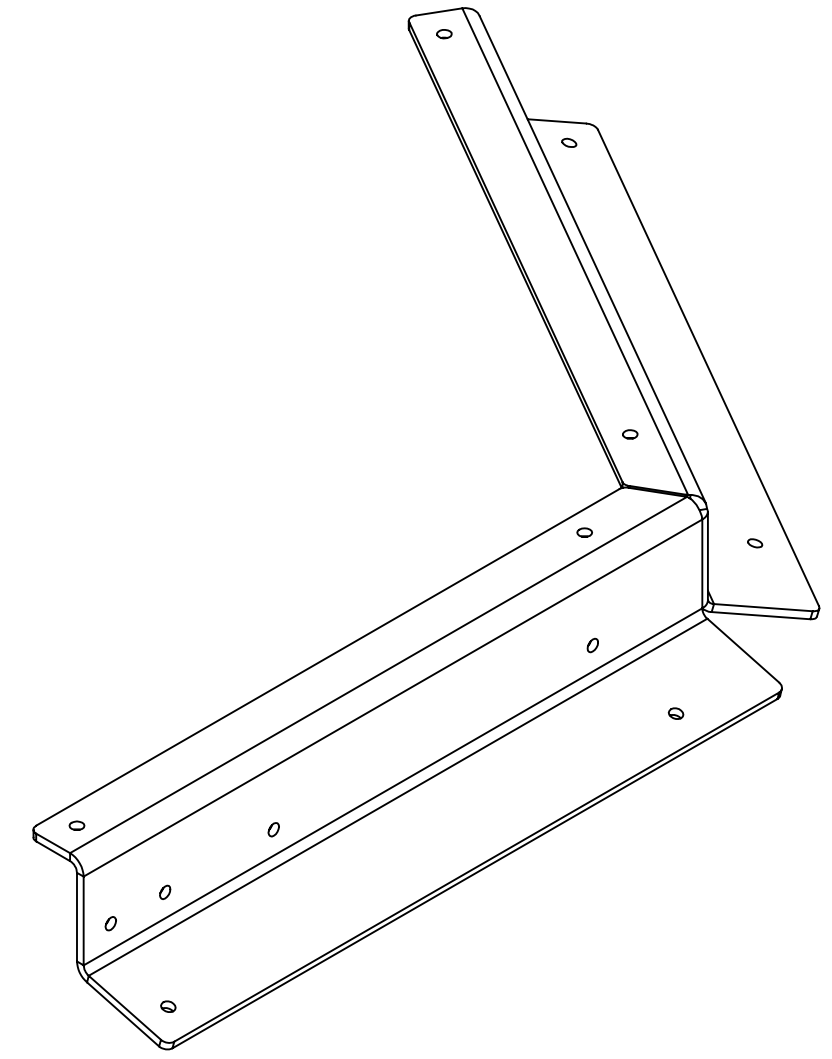
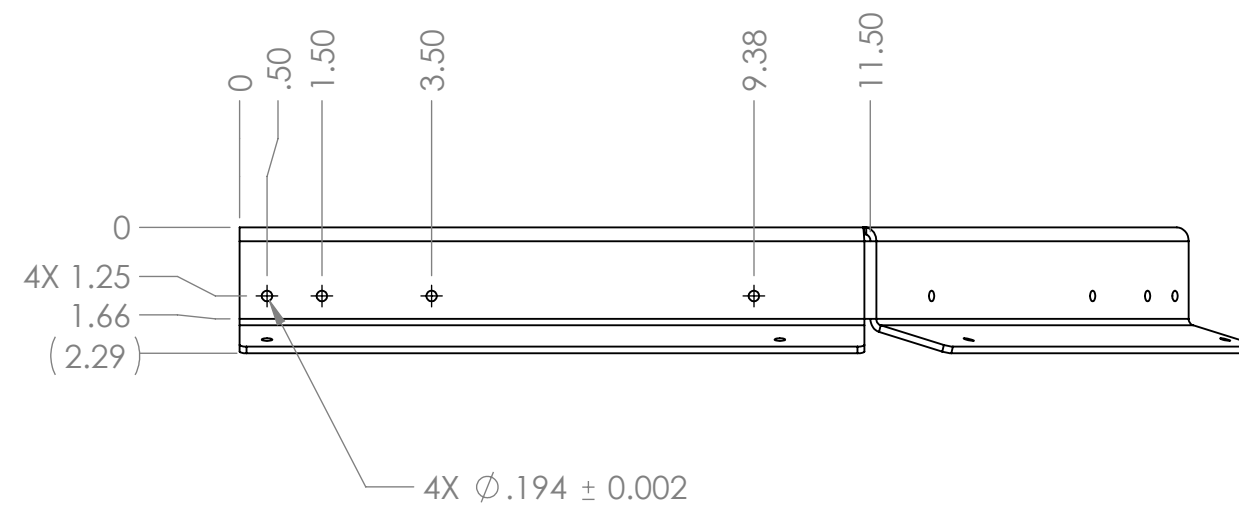
2

1

NOTE: ALL FEATURES ARE MIRRORED ACROSS DRAWN LINE



VIEW A-A



UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
TOLERANCES:  
FRACTIONAL ± 1/16  
ANGULAR: MACH ± 1° BEND ± 1°  
TWO PLACE DECIMAL ± .02  
THREE PLACE DECIMAL ± .010

**MATERIAL/FINISH:**  
8GA 5052 Aluminum

DO NOT SCALE DRAWING

BEND	NAME	DATE
DRAWN	NE	10/1/2024

**PROPRIETARY AND CONFIDENTIAL**  
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**COMMENTS:**  
REMOVE ALL BURRS AND SHARP EDGES.



TITLE: **Trough Floor Bracket**

SIZE	DWG. NO.	REV
<b>C</b>	<b>GE-25312</b>	

SCALE: 2:7 SHEET 1 OF 1

4

3

2

1

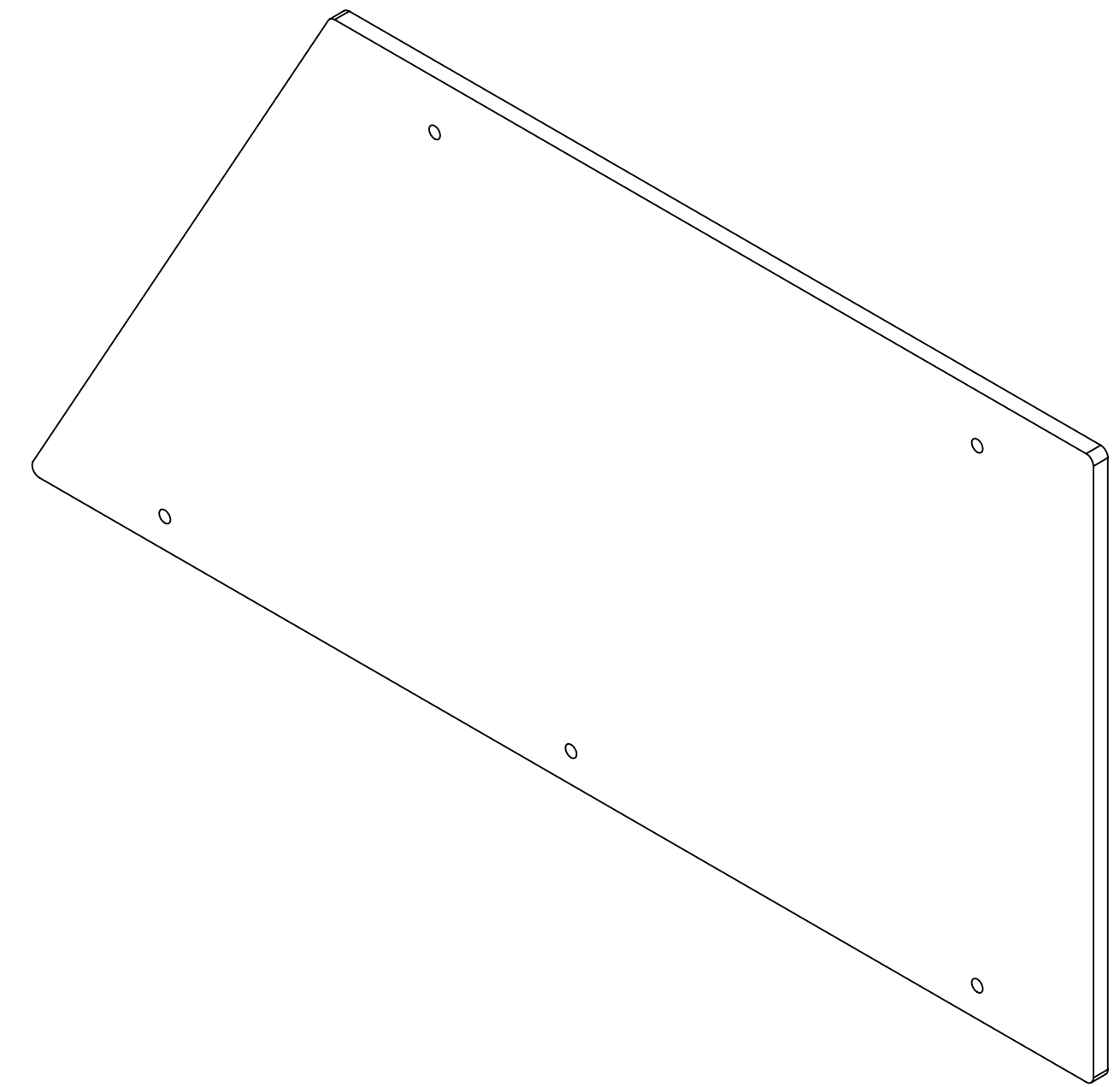
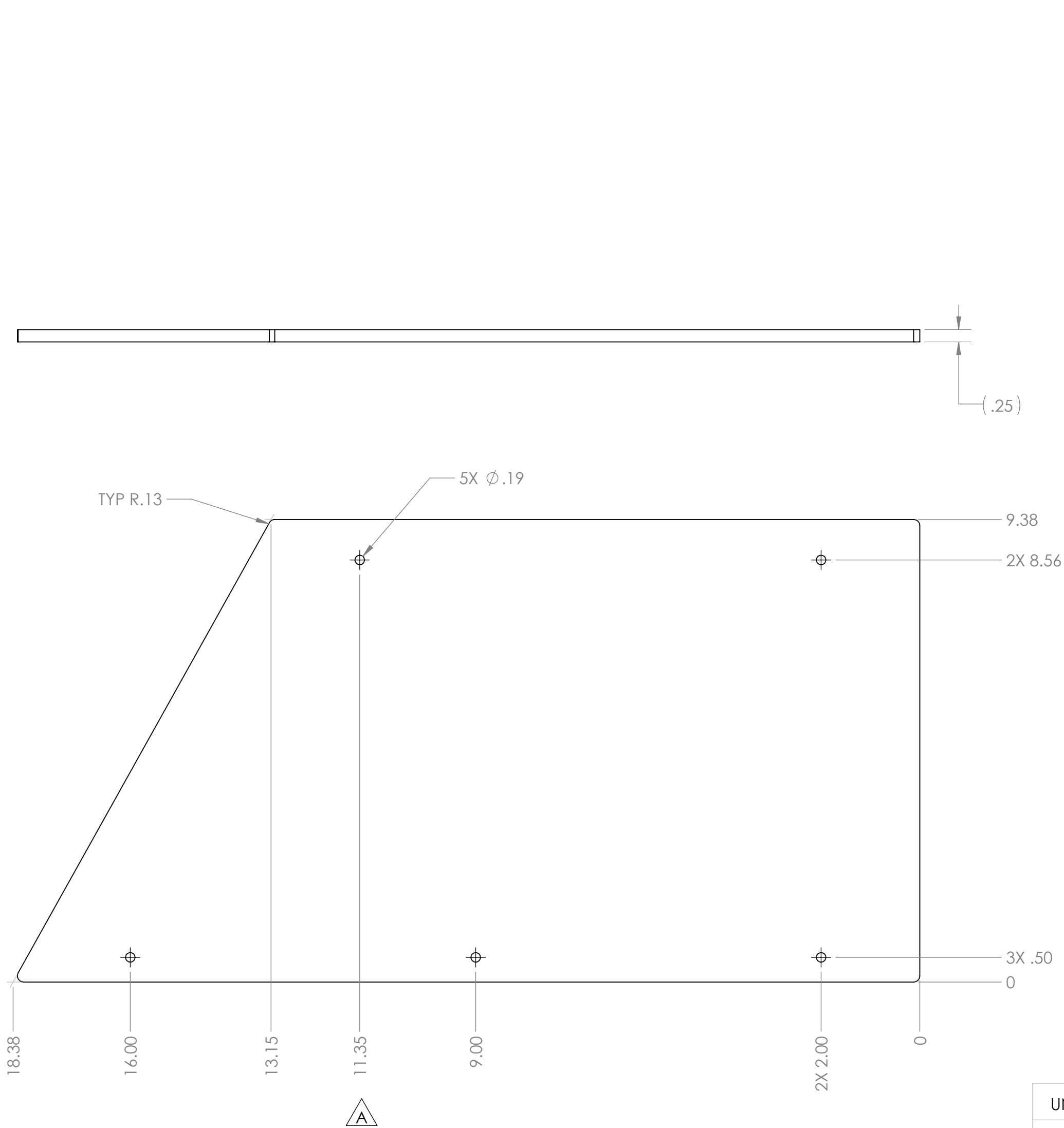
4

3

2

1

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
A3	A	GEOMETRY CHANGE FOR HOLE LOCATION	11/8/2024	NWE



UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL  $\pm 1/16$   
 ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
 TWO PLACE DECIMAL  $\pm .01$   
 THREE PLACE DECIMAL  $\pm .005$

**MATERIAL/FINISH:**  
 0.25" HDPE, Black Matte Finish

DO NOT SCALE DRAWING

VEND	NAME	DATE
DRAWN	NE	10/1/2024
<b>PROPRIETARY AND CONFIDENTIAL</b>		
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.		
<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		

 		
TITLE: Trough Floor		
SIZE	DWG. NO.	REV
<b>C</b>	GE-25313	<b>A</b>
SCALE: 1:2		SHEET 1 OF 1

4

3

2

1

D

D

C

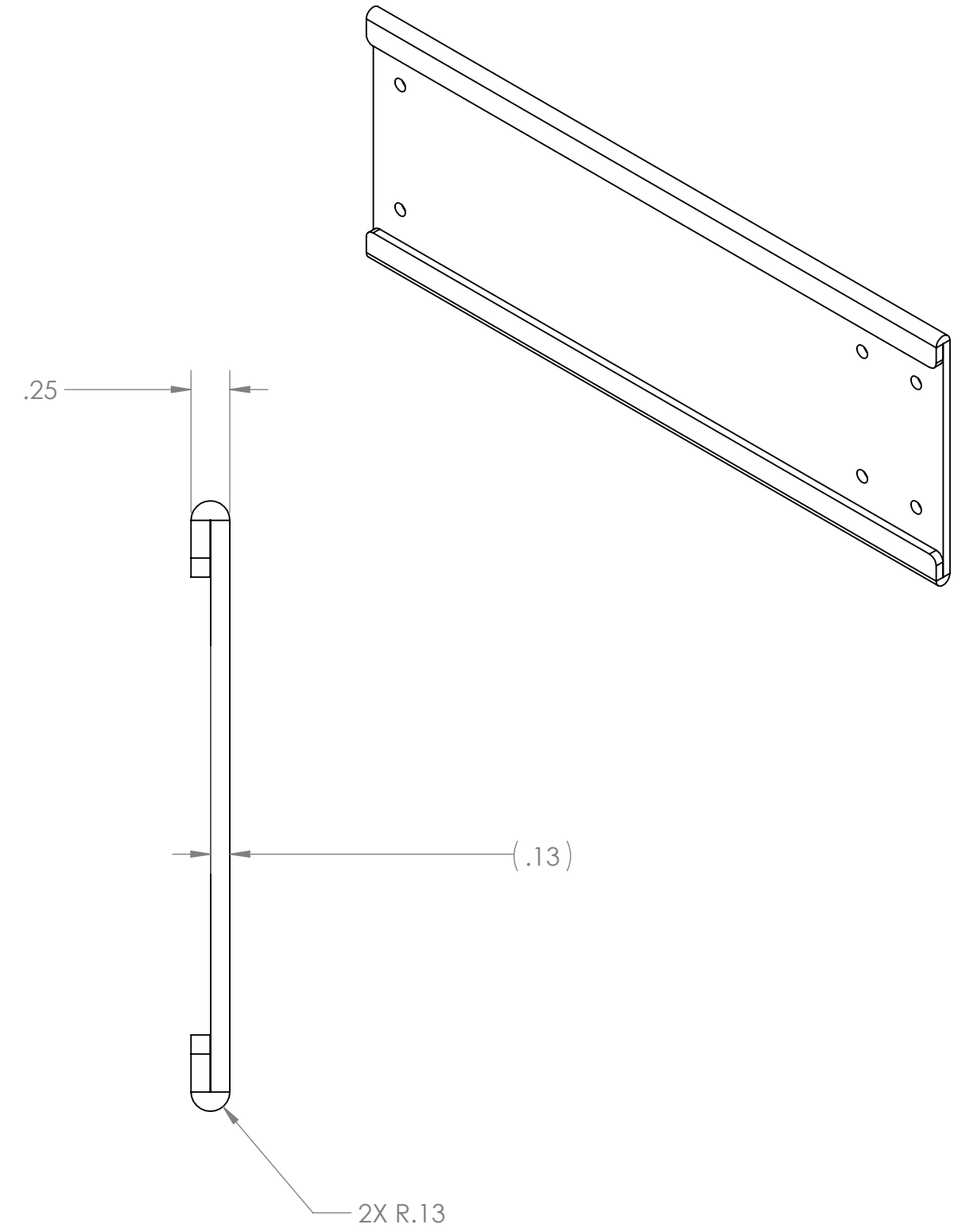
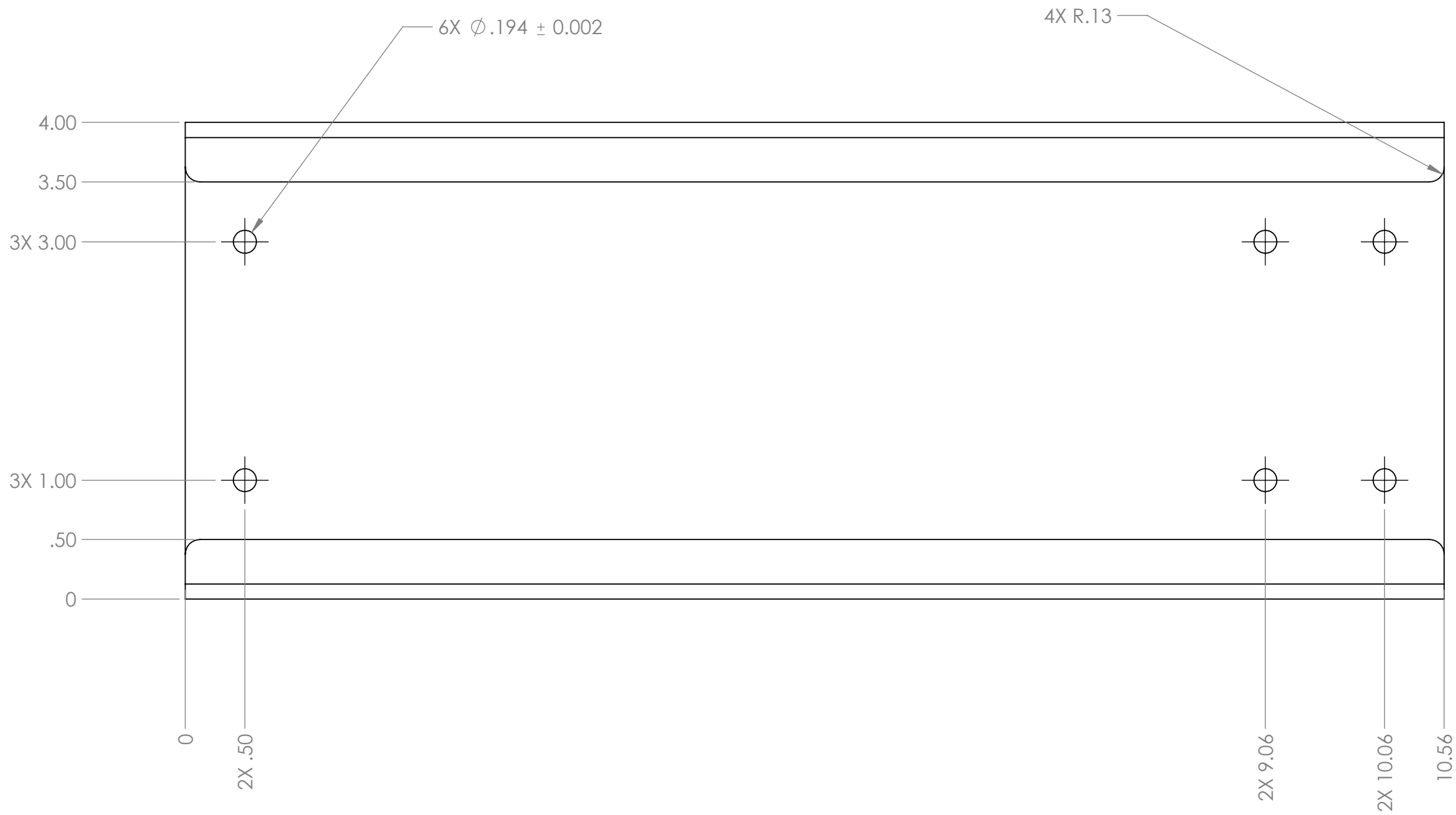
C



B

B

A

A



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .02$ THREE PLACE DECIMAL $\pm .010$	BEND	NAME	DATE	 
	DRAWN	NE	10/1/2024	
<b>MATERIAL/FINISH:</b> 8GA 5052 Alumimum	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.			TITLE: <b>Slice Outside Depth Support</b>
<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.	DO NOT SCALE DRAWING			SIZE: <b>C</b> DWG. NO.: <b>GE-25314</b> REV:
SCALE: 1:1			SHEET 1 OF 1	

4

3

2

1

D

D

C

C

B

B

A

A

4X R.13

2X  $\phi$ .194  $\pm$  0.002

2X  $\phi$ .50

1.91

4X .41

0

12.88

10.88



9.88

7.88

2.00

0

.25

<p>UNLESS OTHERWISE SPECIFIED:</p> <p>DIMENSIONS ARE IN INCHES  TOLERANCES:  FRACTIONAL <math>\pm</math> 1/16  ANGULAR: MACH <math>\pm</math> 1° BEND <math>\pm</math> 1°  TWO PLACE DECIMAL <math>\pm</math>.01  THREE PLACE DECIMAL <math>\pm</math>.005</p> <p><b>MATERIAL/FINISH:</b>  0.25" HDPE, Black Matte Finish</p> <p>DO NOT SCALE DRAWING</p>	VEND	NAME	DATE	 	
	DRAWN	NE	10/1/2024		
	<p><b>PROPRIETARY AND CONFIDENTIAL</b></p> <p>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b>. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.</p> <p><b>COMMENTS:</b>  REMOVE ALL BURRS AND SHARP EDGES.</p>				<p>TITLE:  Trough Back</p>
	<p>SIZE  <b>C</b></p>		<p>DWG. NO.  GE-25315</p>	<p>REV</p>	<p>SCALE: 1:1</p>
			<p>SHEET 1 OF 1</p>		

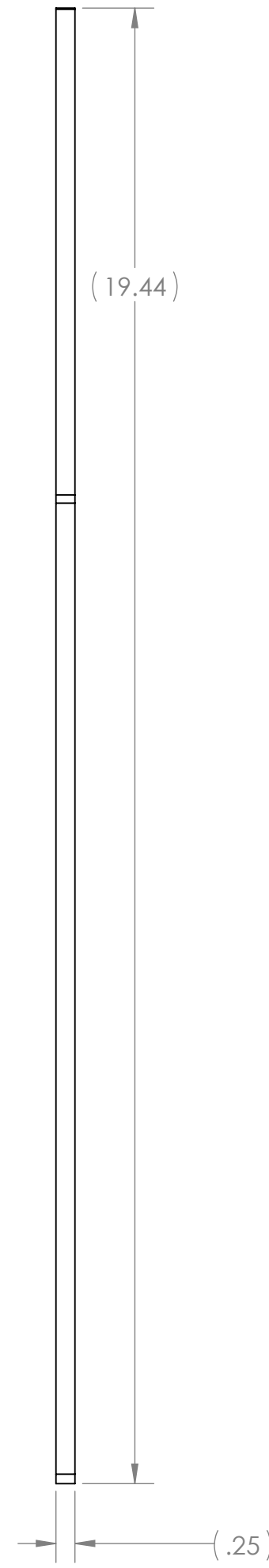
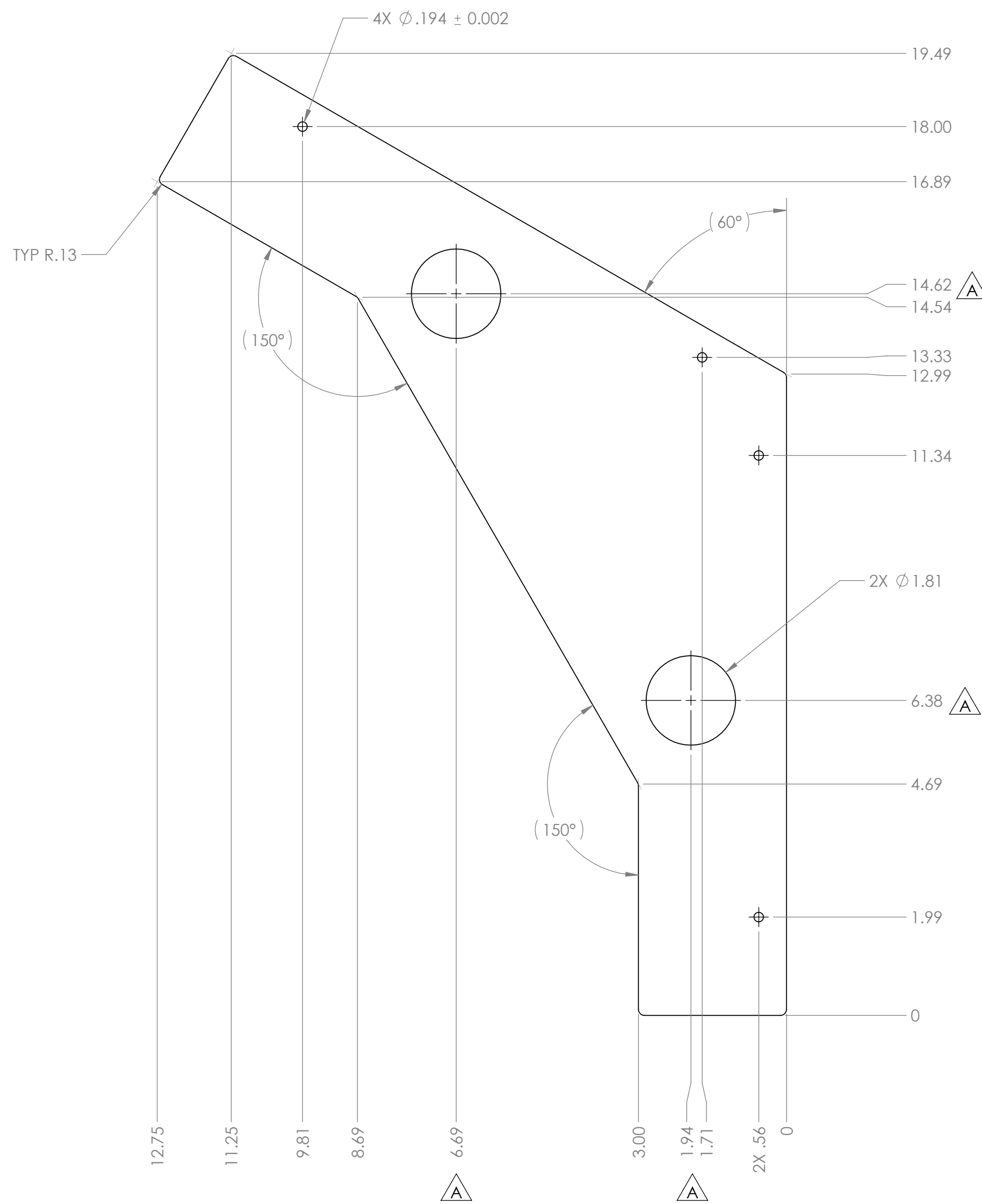
4



3

2

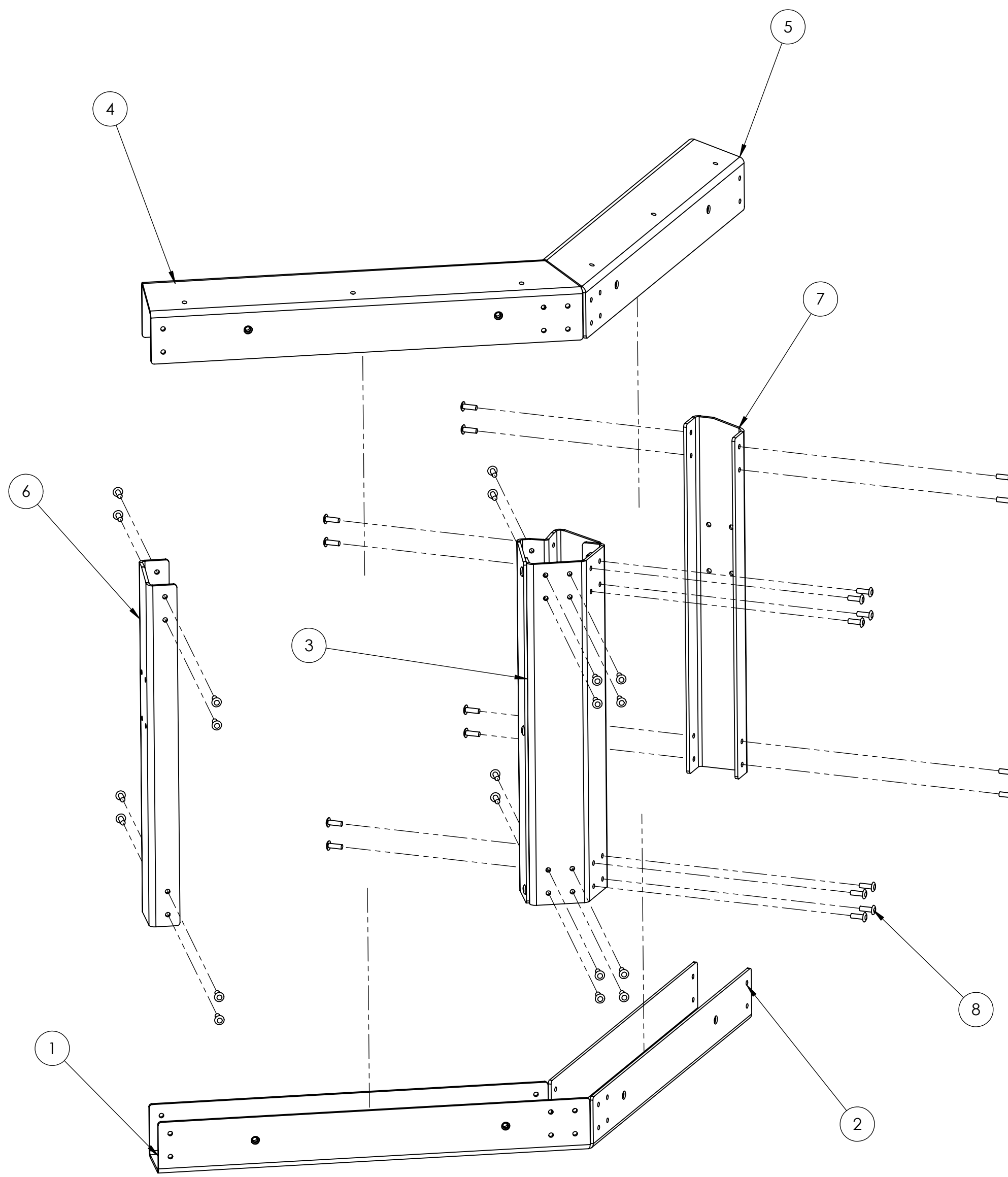
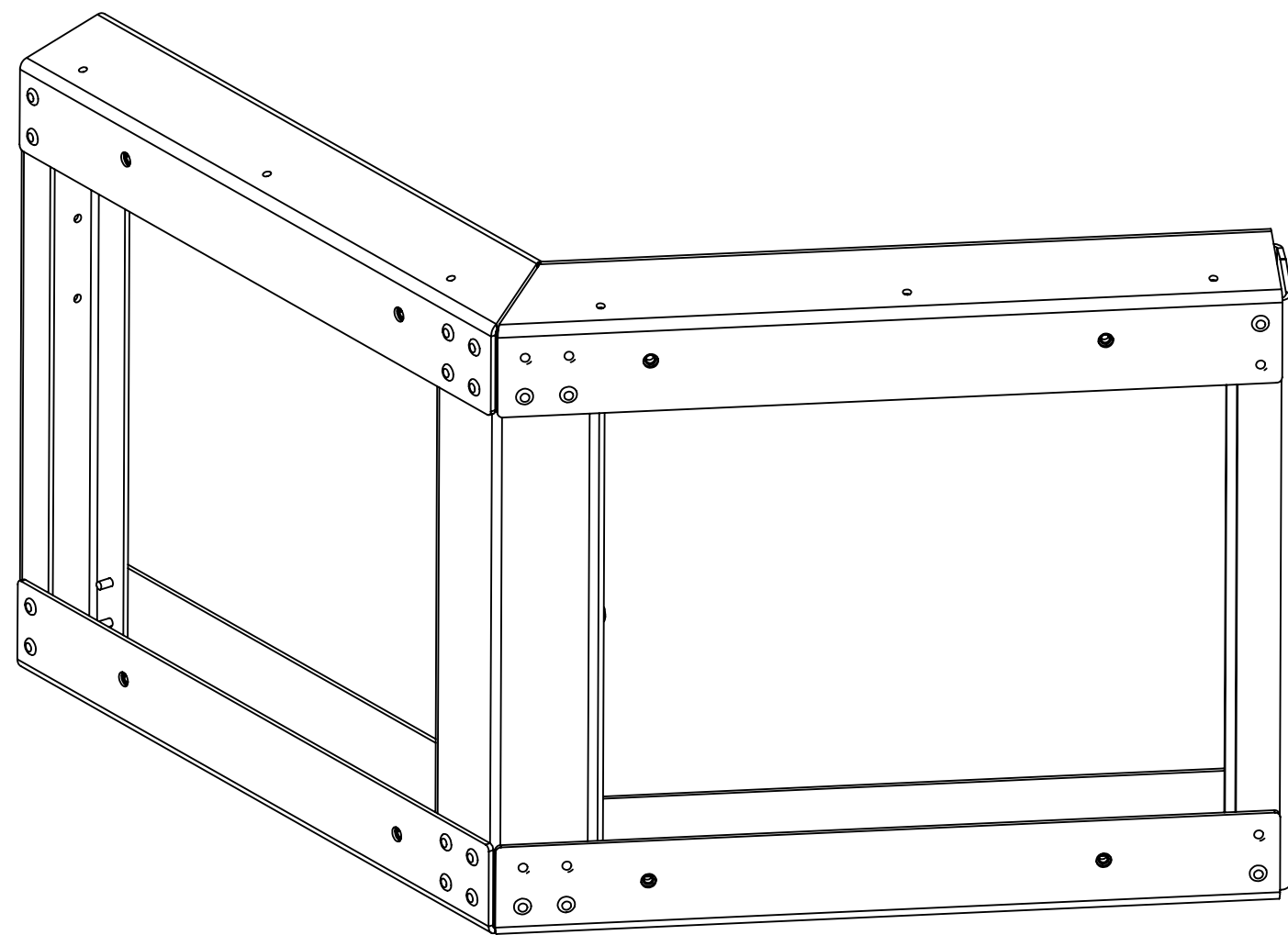
1

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
A3, B3, C3	A	ALTERED CLEARANCE HOLE LOCATION	11/4/2024	NWE





UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .005$	VEND	NAME	DATE	 						
	DRAWN	NE	10/1/2024							
<b>MATERIAL/FINISH:</b> 0.25" HDPE, Black Matte Finish	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.			TITLE: <b>Slice Top Cover</b>						
DO NOT SCALE DRAWING	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			<table border="1"> <tr> <td>SIZE</td> <td>DWG. NO.</td> <td>REV</td> </tr> <tr> <td><b>C</b></td> <td>GE-25316</td> <td><b>A</b></td> </tr> </table>	SIZE	DWG. NO.	REV	<b>C</b>	GE-25316	<b>A</b>
SIZE	DWG. NO.	REV								
<b>C</b>	GE-25316	<b>A</b>								
	SCALE: 1:2		SHEET 1 OF 1							





ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25321	Outer Slice Left Bottom Channel W PEMs	1
2	GE-25322	Outer Slice Right Bottom Channel W PEMs	1
3	GE-25323	Outer Slice Center Vertical	1
4	GE-25326	Outer Slice Left Top Channel W PEMs	1
5	GE-25327	Outer Slice Right Top Channel W PEMs	1
6	GE-25328	Outer Slice End Vertical Left	1
7	GE-25329	Outer Slice End Vertical Right	1
8	rivet_.1875_.251-.375	3/16" Aluminum Rivet, .251-.375 Grip Range	40

UNLESS OTHERWISE SPECIFIED:		VEND	NAME	DATE
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005		DRAWN	NE	10/1/2024
MATERIAL/FINISH:		<b>PROPRIETARY AND CONFIDENTIAL</b>		
DO NOT SCALE DRAWING		THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.		
		COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.		
		 		
		TITLE: <b>Outer Slice Assembly</b>		
SIZE	DWG. NO.	REV		
<b>C</b>	GE-25320			
SCALE: 1:4		SHEET 1 OF 1		

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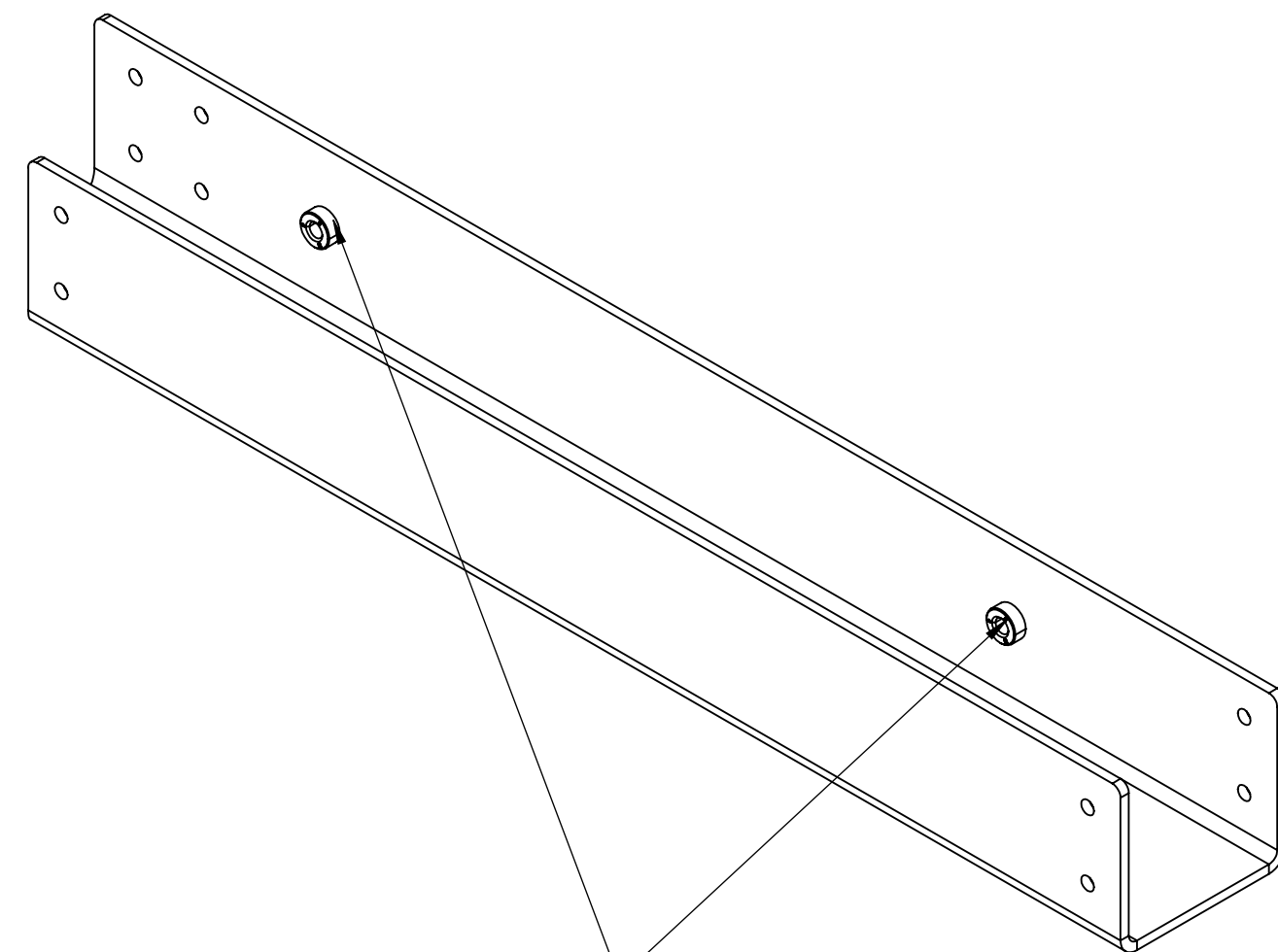
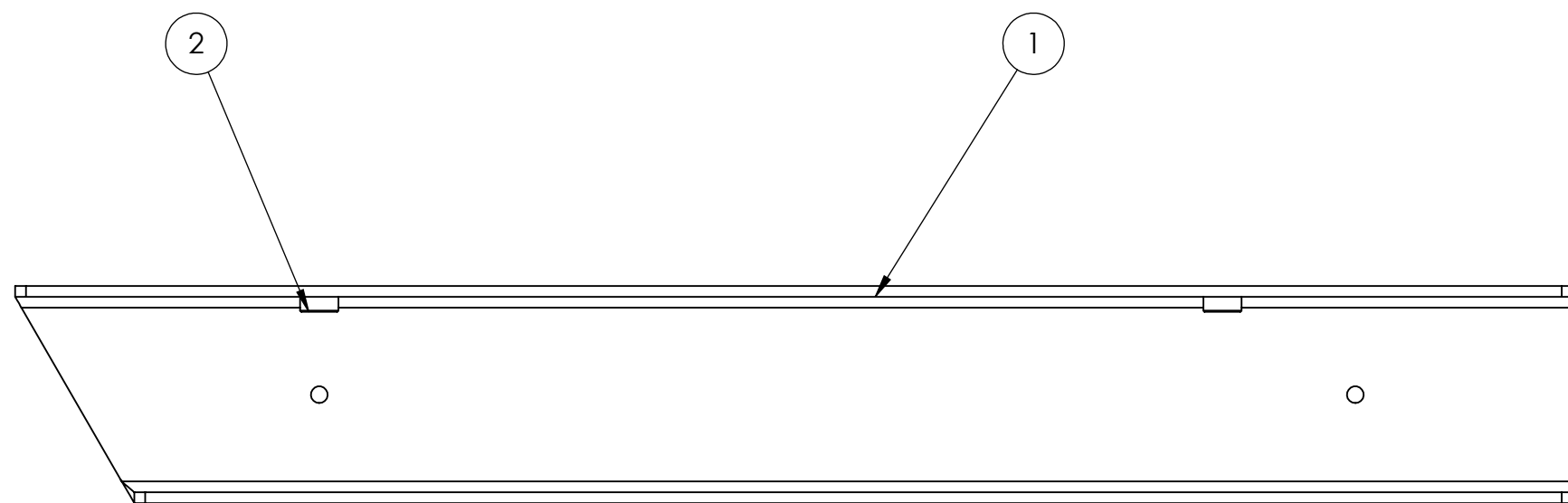
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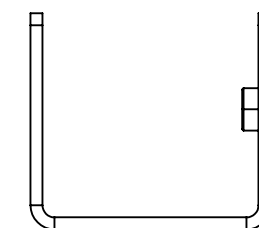
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2X PEM NUTS INSTALLED ON INTERIOR FACE



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25321-01	Outer Slice Left Bottom Channel	1
2	pem_clinchnut_.25_20 _.054	1/4-20 self-clinching nut, .054 shank	2

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ± 1/16  
 ANGULAR: MACH ± 1° BEND ± 1°  
 TWO PLACE DECIMAL ± .01  
 THREE PLACE DECIMAL ± .005

**MATERIAL/FINISH:**

DO NOT SCALE DRAWING

VEND NAME DATE  
 DRAWN NE 9/30/2024

**PROPRIETARY AND CONFIDENTIAL**  
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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.



TITLE:  
**Outer Slice Left Bottom Channel W PEMs**

SIZE DWG. NO. REV

**C** GE-25321

SCALE: 1:2 SHEET 1 OF 1

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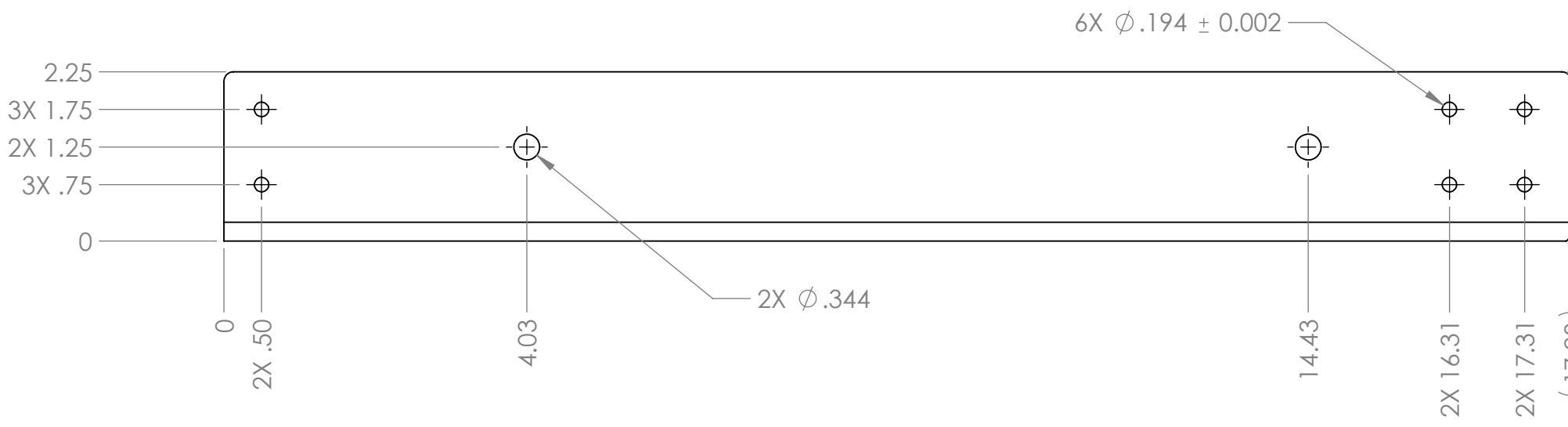
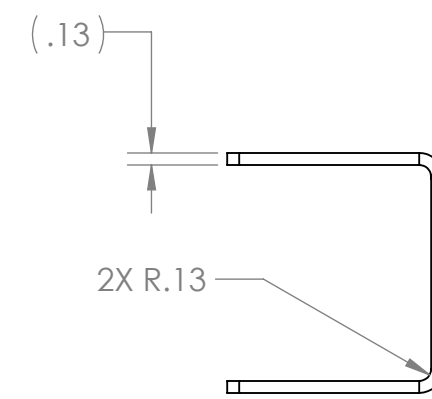
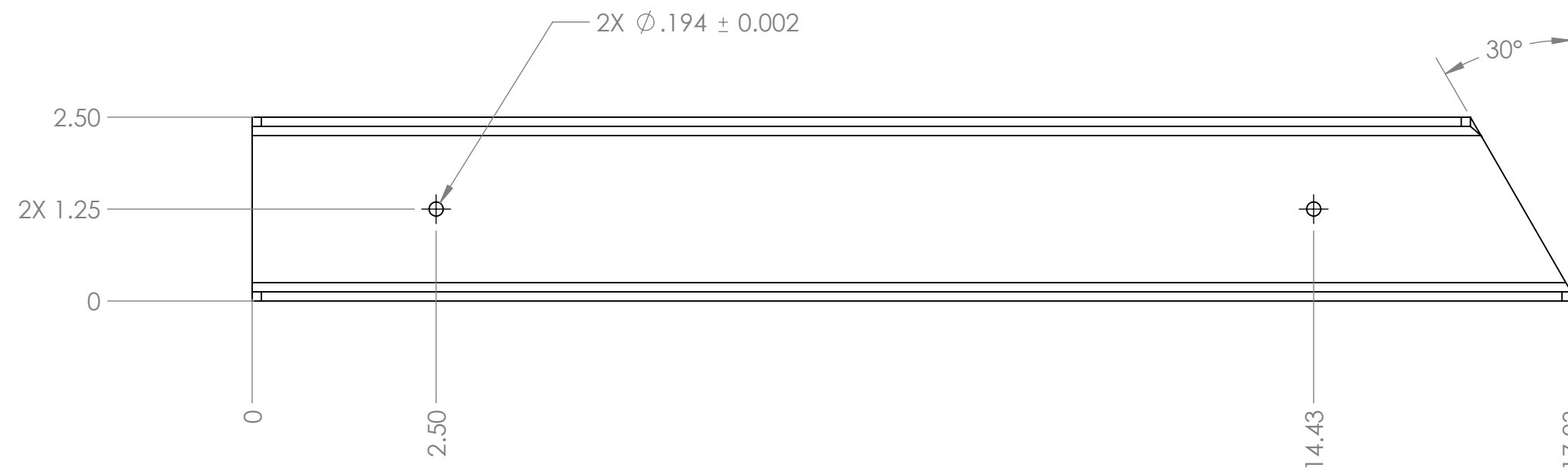
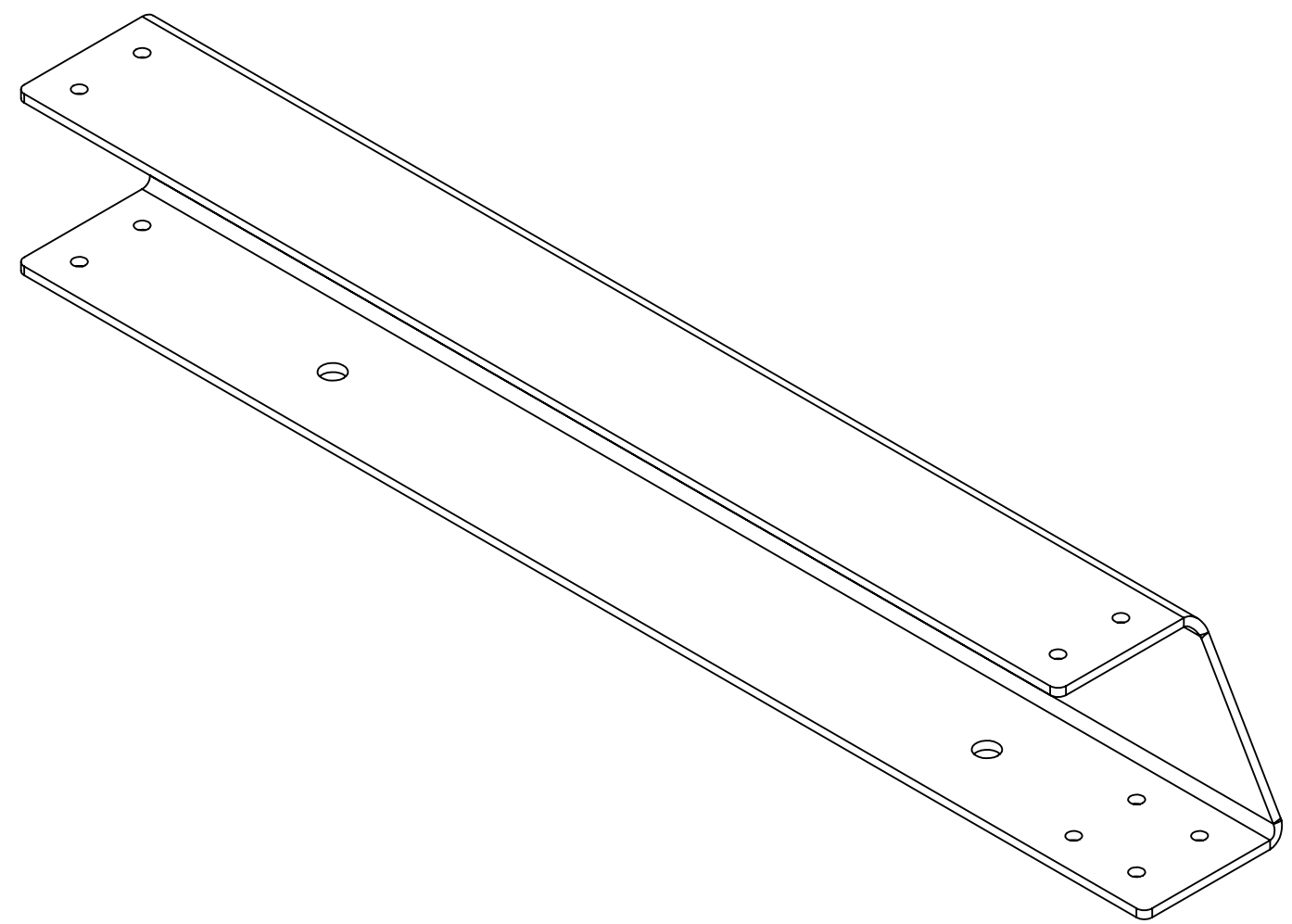
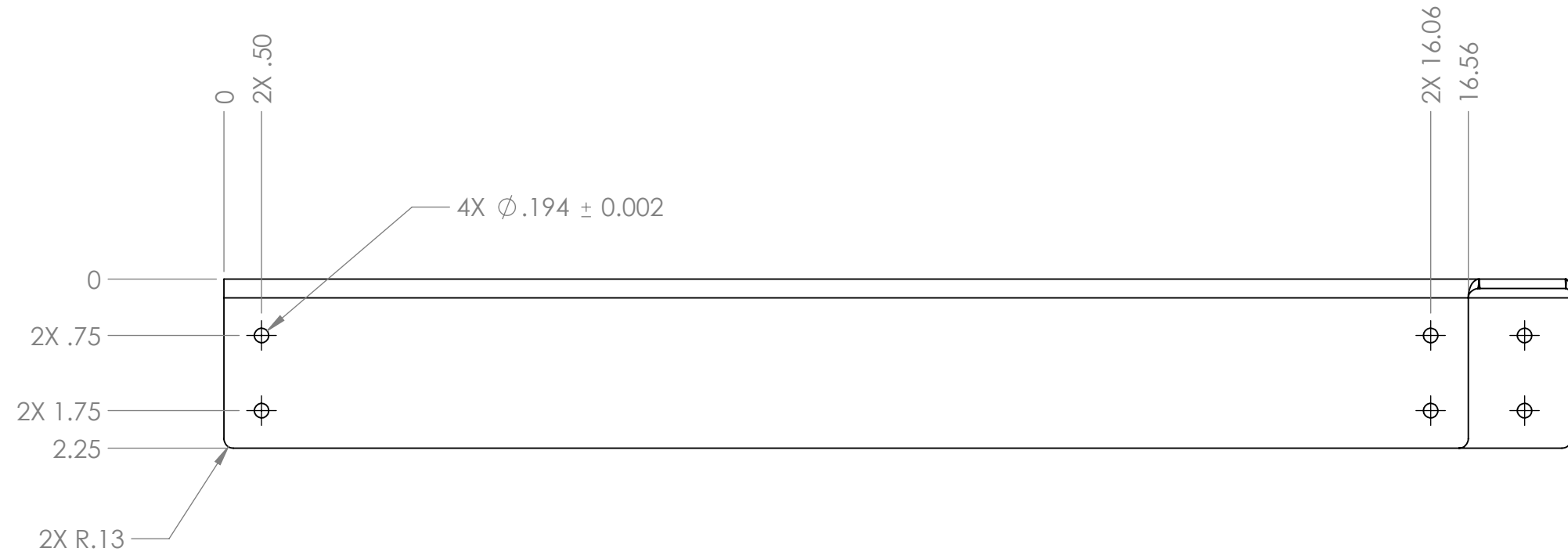
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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .02 THREE PLACE DECIMAL ± .010	BEND	NAME	DATE	 
	DRAWN	NE	9/30/2024	
<b>MATERIAL/FINISH:</b> 8GA 5052 Aluminum  <b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			TITLE: <h2>Outer Slice Left Bottom Channel</h2>
	DO NOT SCALE DRAWING			SIZE: <b>C</b> DWG. NO.: GE-25321-01 REV:
			SCALE: 1:2	SHEET 1 OF 1

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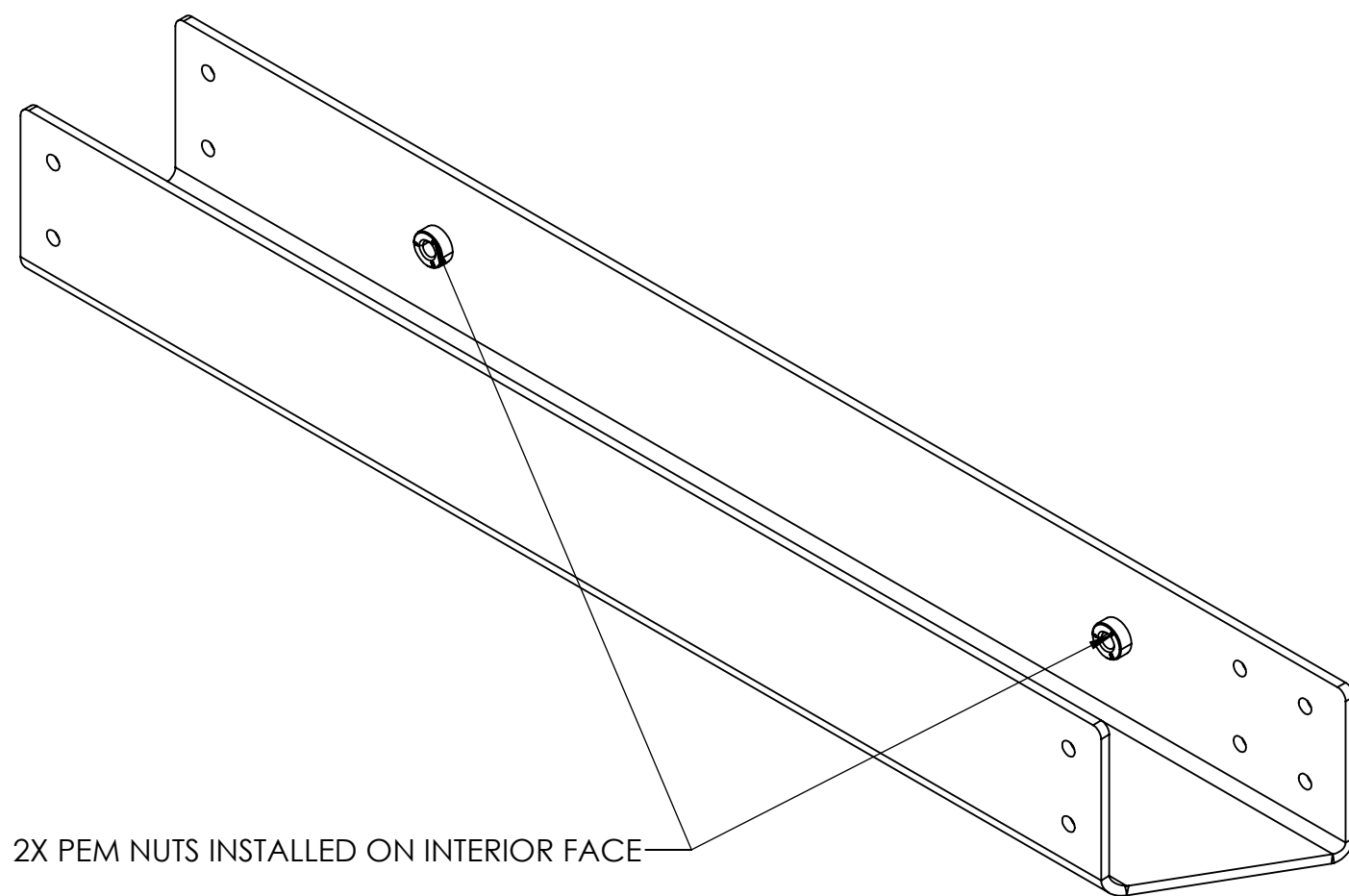
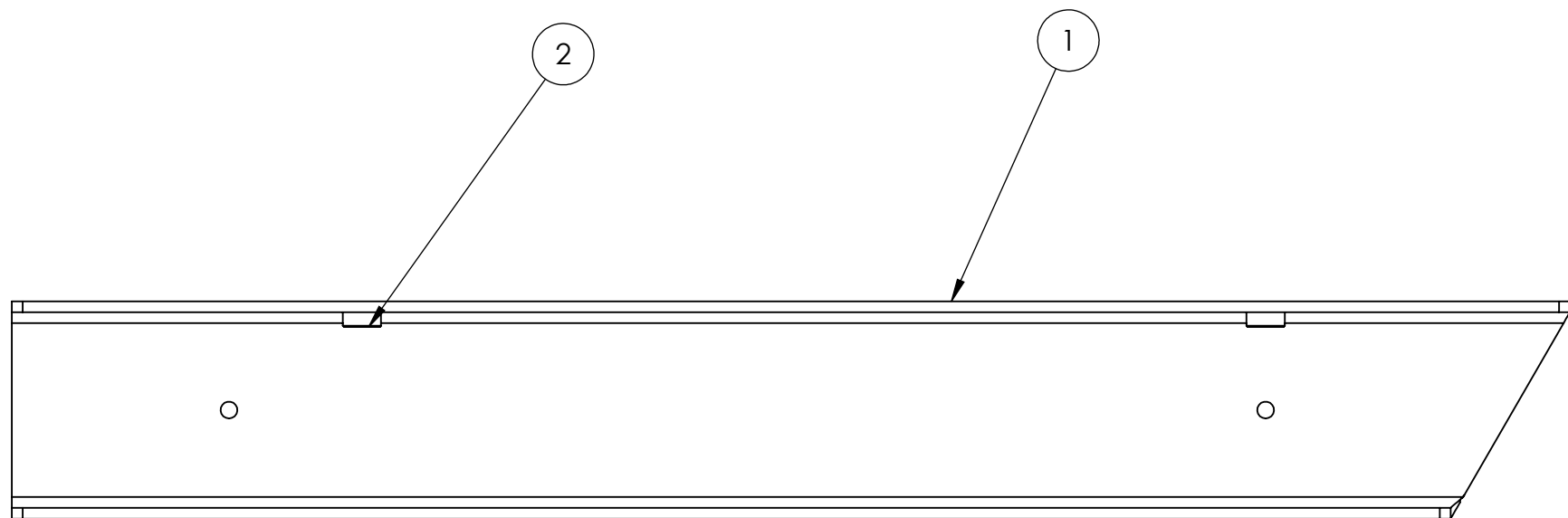
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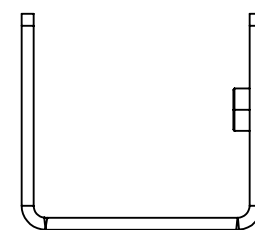
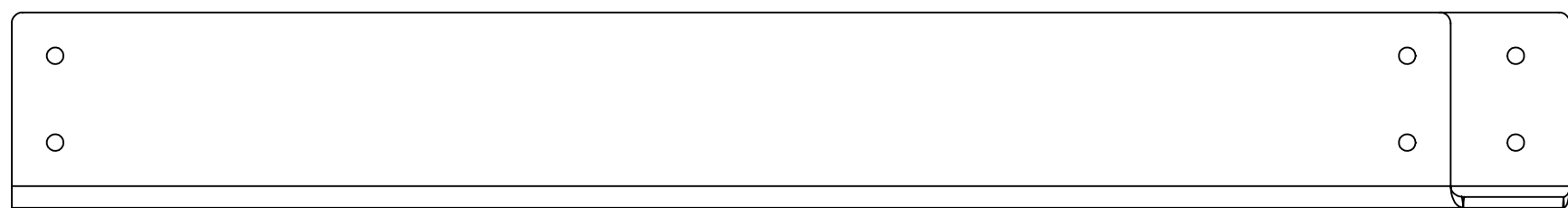
D



2X PEM NUTS INSTALLED ON INTERIOR FACE

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25322-01	Outer Slice Right Bottom Channel	1
2	pem_clinchnut_.25_20 _.054	1/4-20 self-clinching nut, .054 shank	2

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ±1/16  
 ANGULAR: MACH ±1° BEND ±1°  
 TWO PLACE DECIMAL ±.01  
 THREE PLACE DECIMAL ±.005

**MATERIAL/FINISH:**

DO NOT SCALE DRAWING

VEND	NAME	DATE
DRAWN	NE	9/30/2024

**PROPRIETARY AND CONFIDENTIAL**  
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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.



TITLE: Outer Slice Right Bottom Channel W PEMs

SIZE	DWG. NO.	REV
<b>C</b>	GE-25322	

SCALE: 1:2 SHEET 1 OF 1

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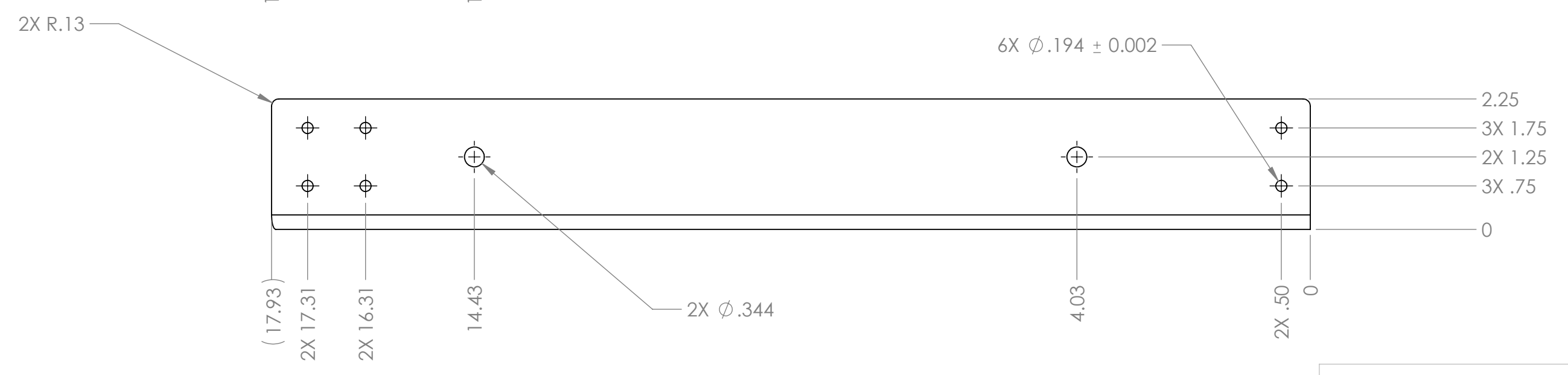
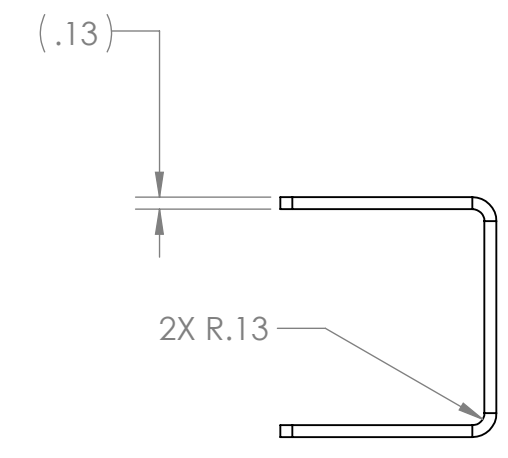
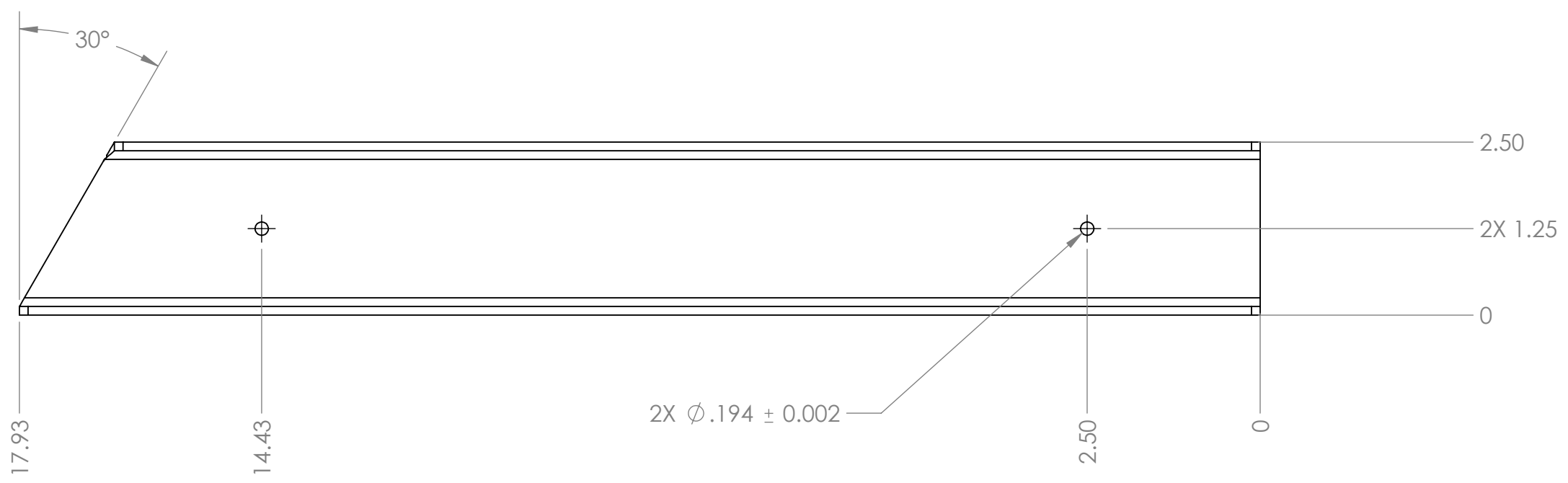
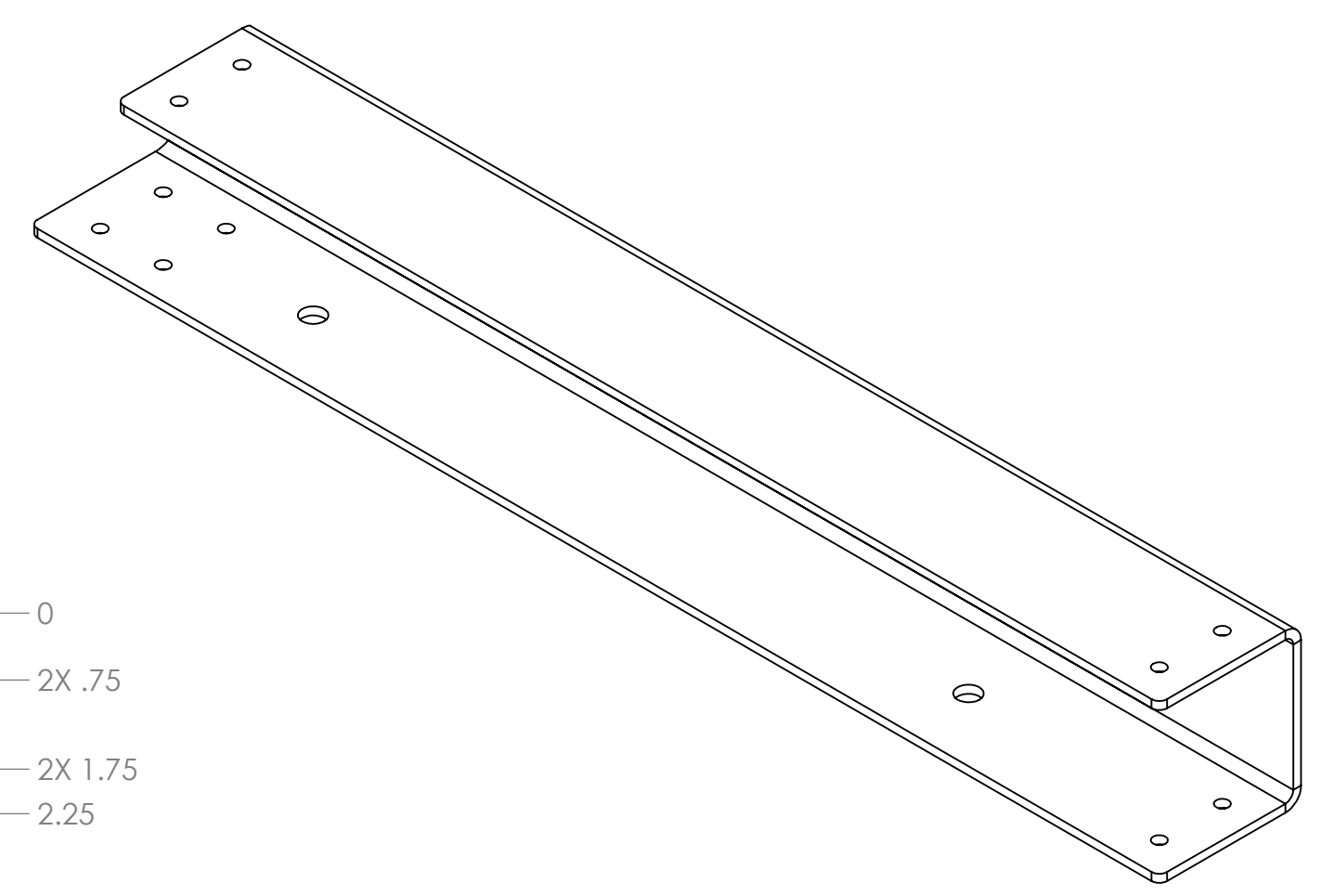
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UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm$ 1/16 ANGULAR: MACH $\pm$ 1° BEND $\pm$ 1° TWO PLACE DECIMAL $\pm$ .02 THREE PLACE DECIMAL $\pm$ .010  <b>MATERIAL/FINISH:</b> 8GA 5052 Aluminum  DO NOT SCALE DRAWING	BEND	NAME	DATE	 <b>FIRST ROBOTICS COMPETITION</b>  <small>Modeling Solutions Partner</small>
	DRAWN	NE	9/30/2024	
	<b>PROPRIETARY AND CONFIDENTIAL</b>			TITLE:
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> ®. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> ® IS PROHIBITED.			Outer Slice Right Bottom Channel
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			SIZE DWG. NO. REV
				<b>C</b> GE-25322-01
				SCALE: 1:2 SHEET 1 OF 1

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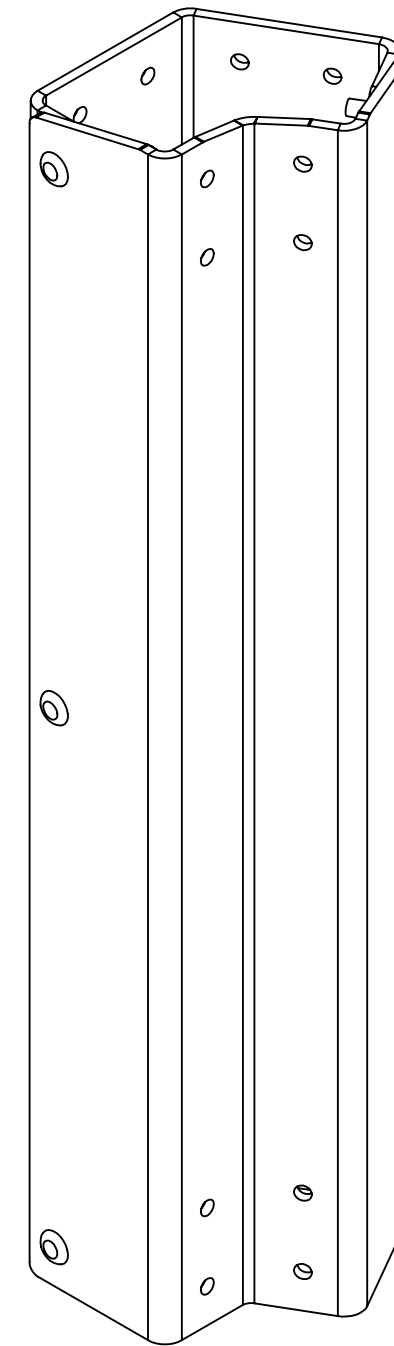
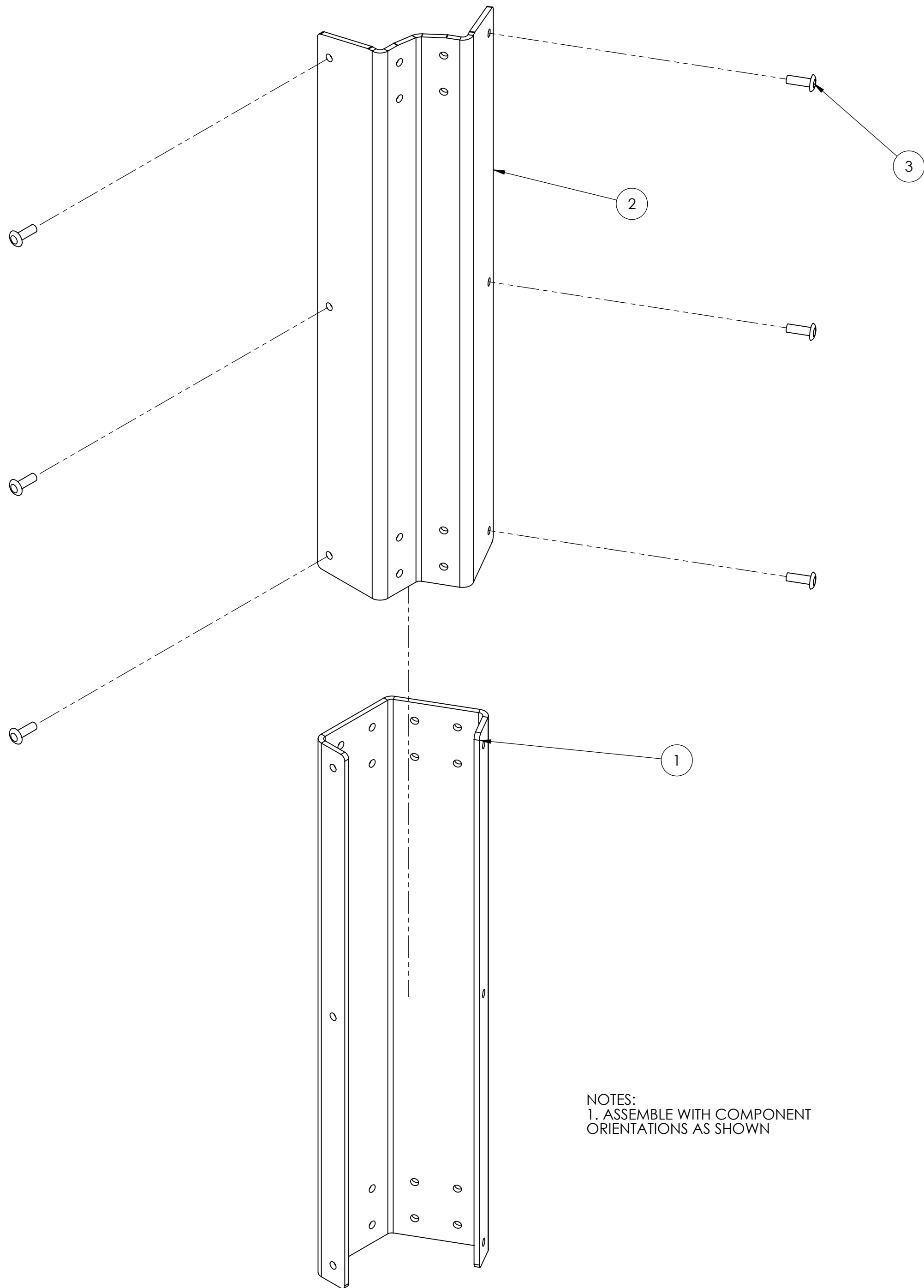
C

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NOTES:  
 1. ASSEMBLE WITH COMPONENT ORIENTATIONS AS SHOWN

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25324	Outer Slice Center Vertical Outer	1
2	GE-25325	Outer Slice Center Vertical Inner	1
3	rivet_.1875_.251-.375	3/16" Aluminum Rivet, .251-.375 Grip Range	6

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ±1/16  
 ANGULAR: MACH ±1° BEND ±1°  
 TWO PLACE DECIMAL ±.01  
 THREE PLACE DECIMAL ±.005

**MATERIAL/FINISH:**

DO NOT SCALE DRAWING

VEND	NAME	DATE
DRAWN	NE	9/30/2024

**PROPRIETARY AND CONFIDENTIAL**  
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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.



TITLE:  
**Outer Slice Center Vertical**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25323	

SCALE: 1:2 SHEET 1 OF 1

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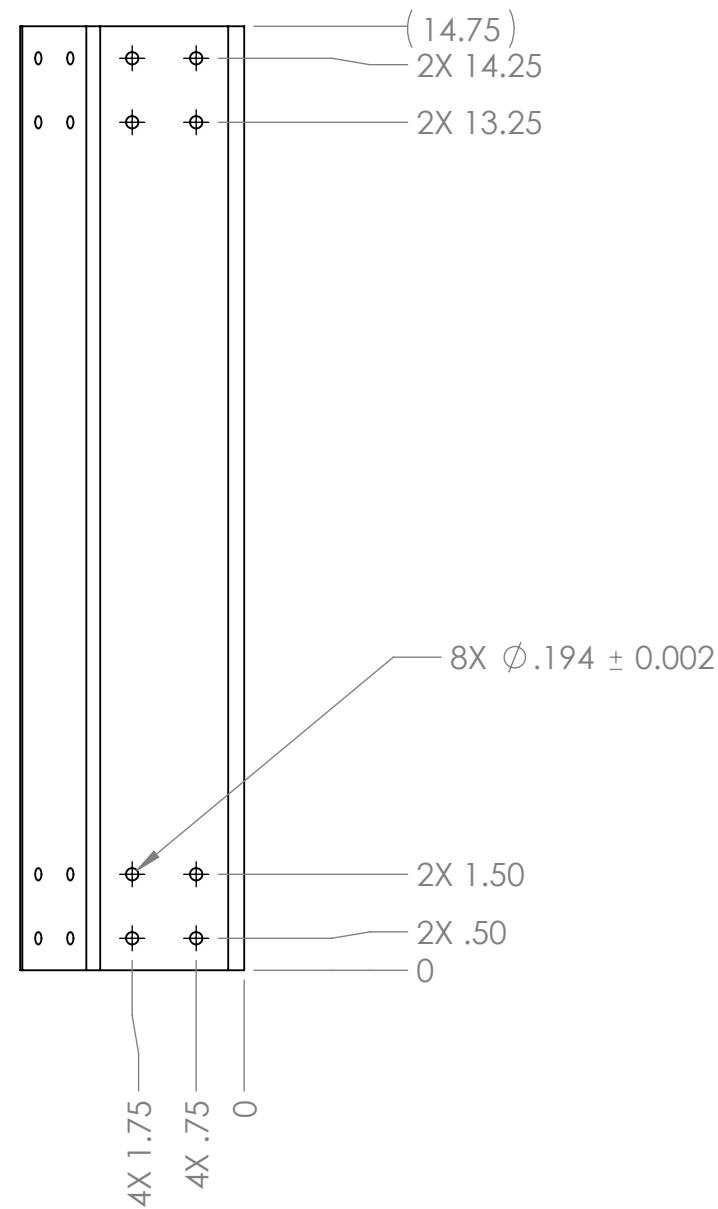
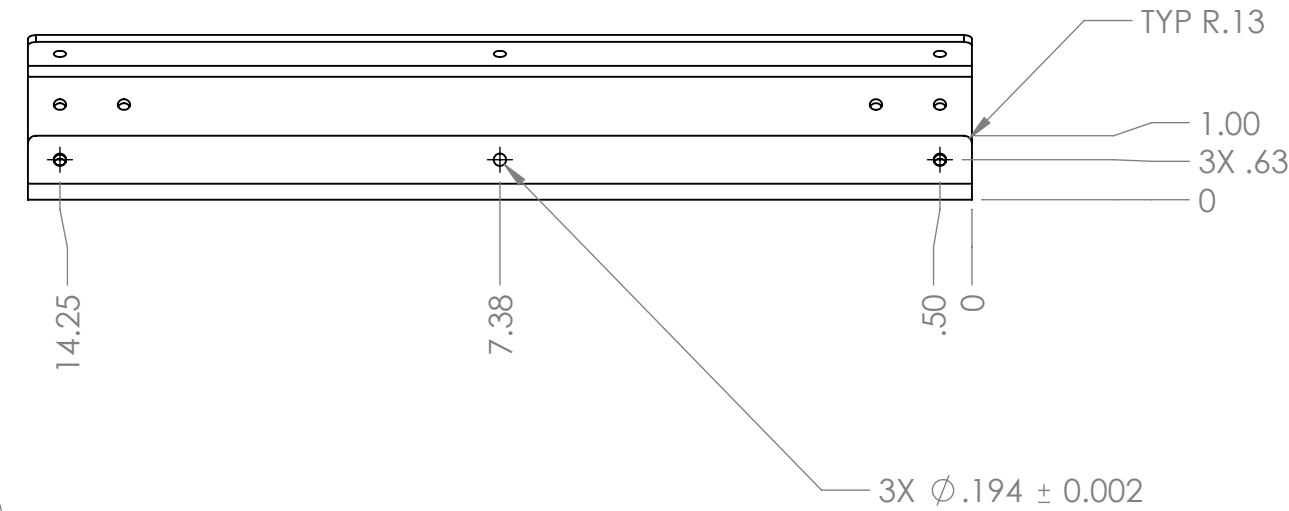
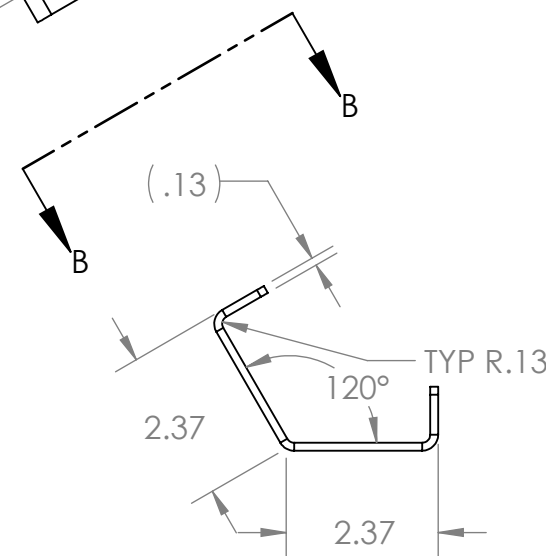
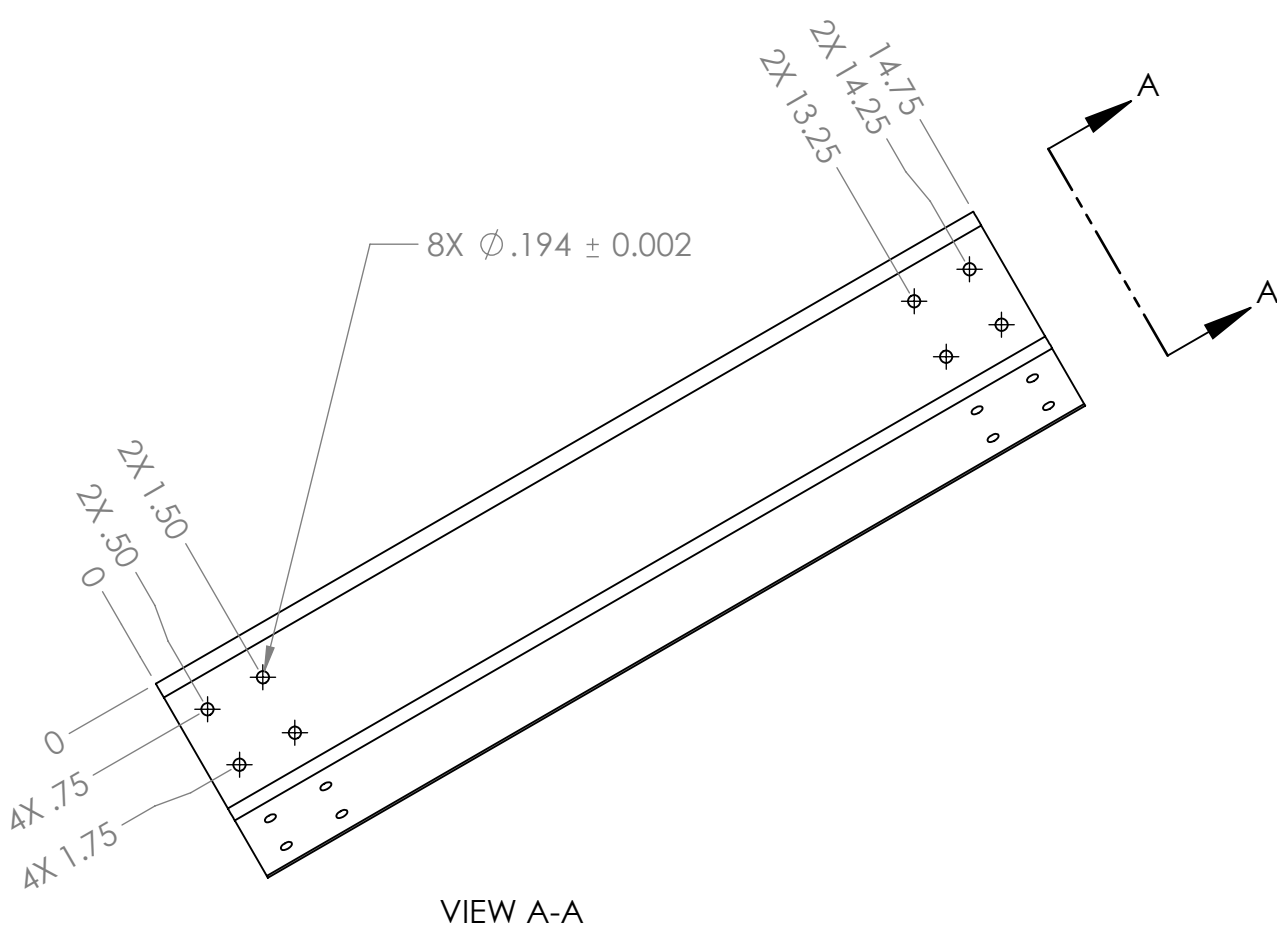
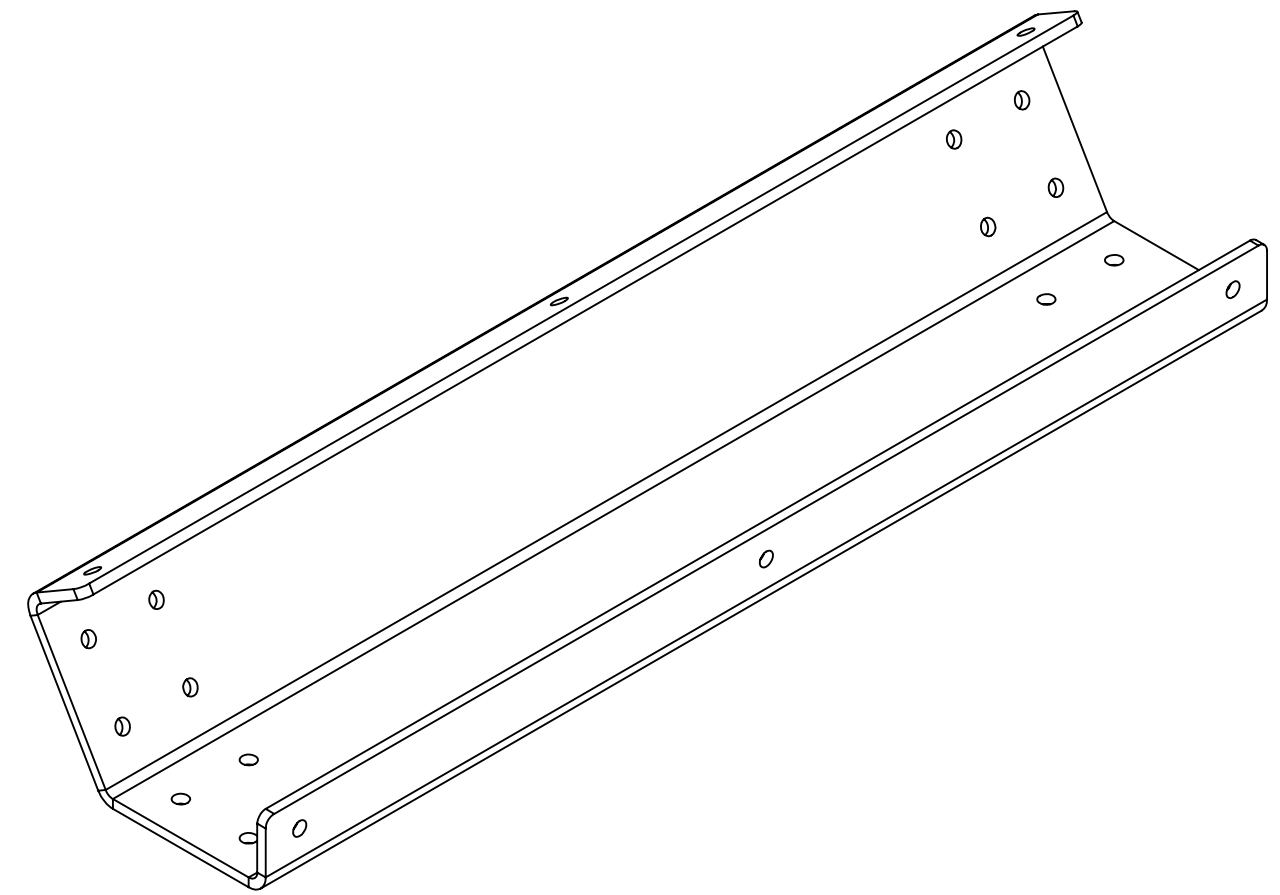
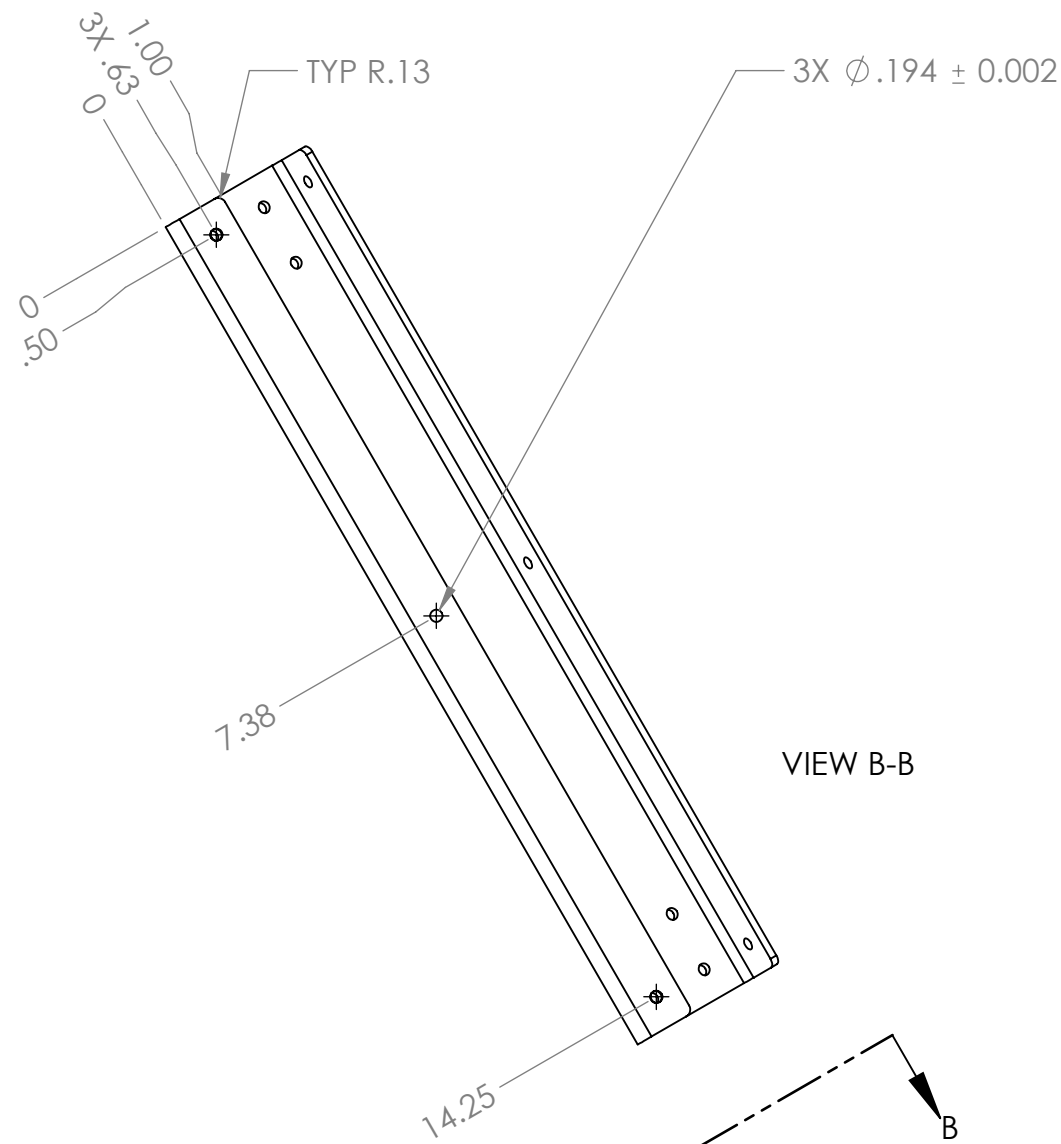


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UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ± 1/16  
 ANGULAR: MACH ± 1° BEND ± 1°  
 TWO PLACE DECIMAL ± .02  
 THREE PLACE DECIMAL ± .010

**MATERIAL/FINISH:**  
 8GA 5052 Aluminum

DO NOT SCALE DRAWING

BEND	NAME	DATE
DRAWN	NE	9/30/2024
<b>PROPRIETARY AND CONFIDENTIAL</b>		
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.		
<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		



TITLE: <b>Outer Slice Center Vertical Outer</b>		
SIZE	DWG. NO.	REV
<b>C</b>	<b>GE-25324</b>	
SCALE: 1:3		SHEET 1 OF 1

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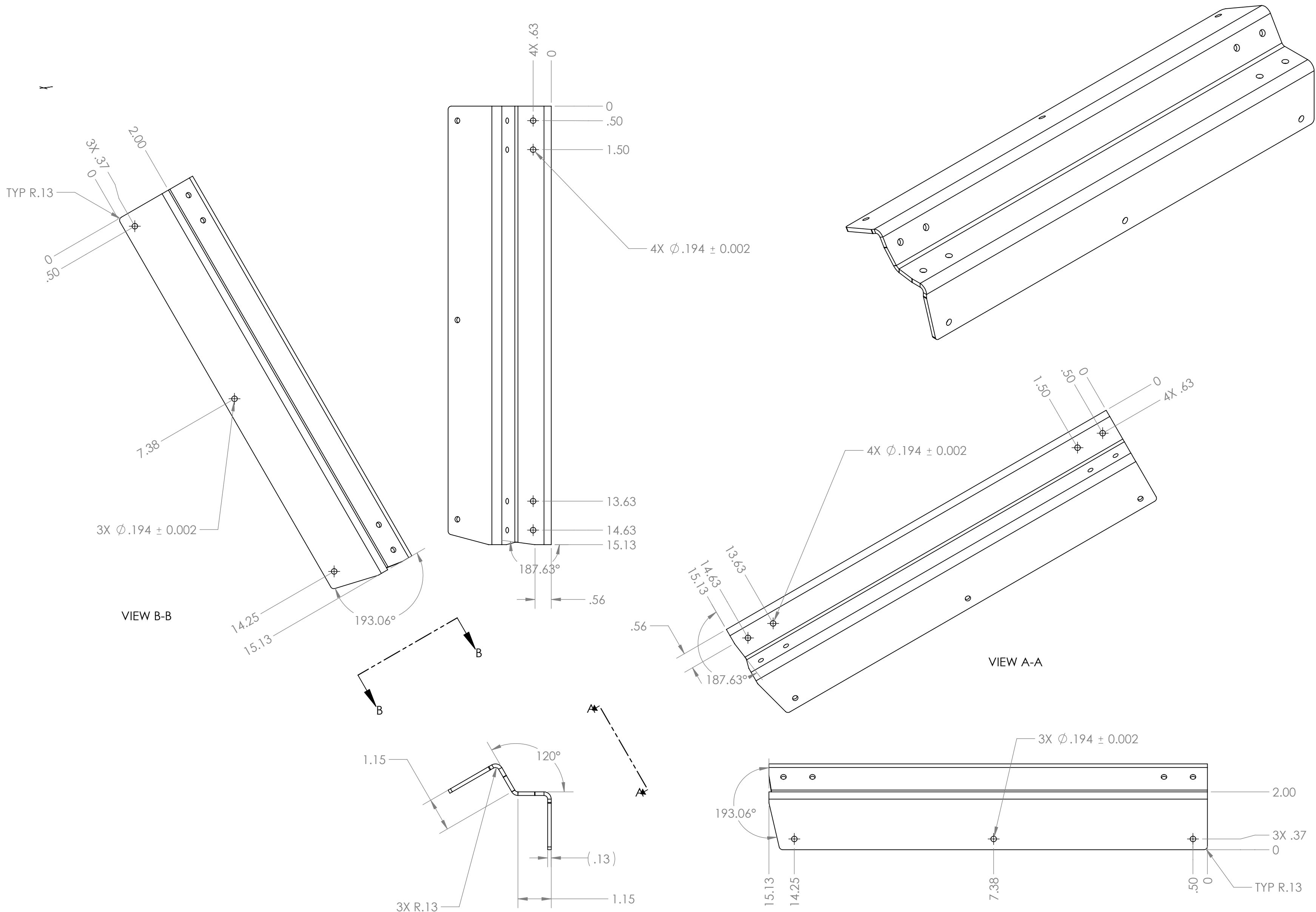
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UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .02 THREE PLACE DECIMAL ± .010  <b>MATERIAL/FINISH:</b> 8GA 5052 Aluminum  DO NOT SCALE DRAWING	BEND	NAME	DATE
	DRAWN	NE	9/30/2024
	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.		
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		



TITLE: <b>Outer Slice Center Vertical Inner</b>		
SIZE	DWG. NO.	REV
<b>C</b>	<b>GE-25325</b>	
SCALE: 2:5		SHEET 1 OF 1

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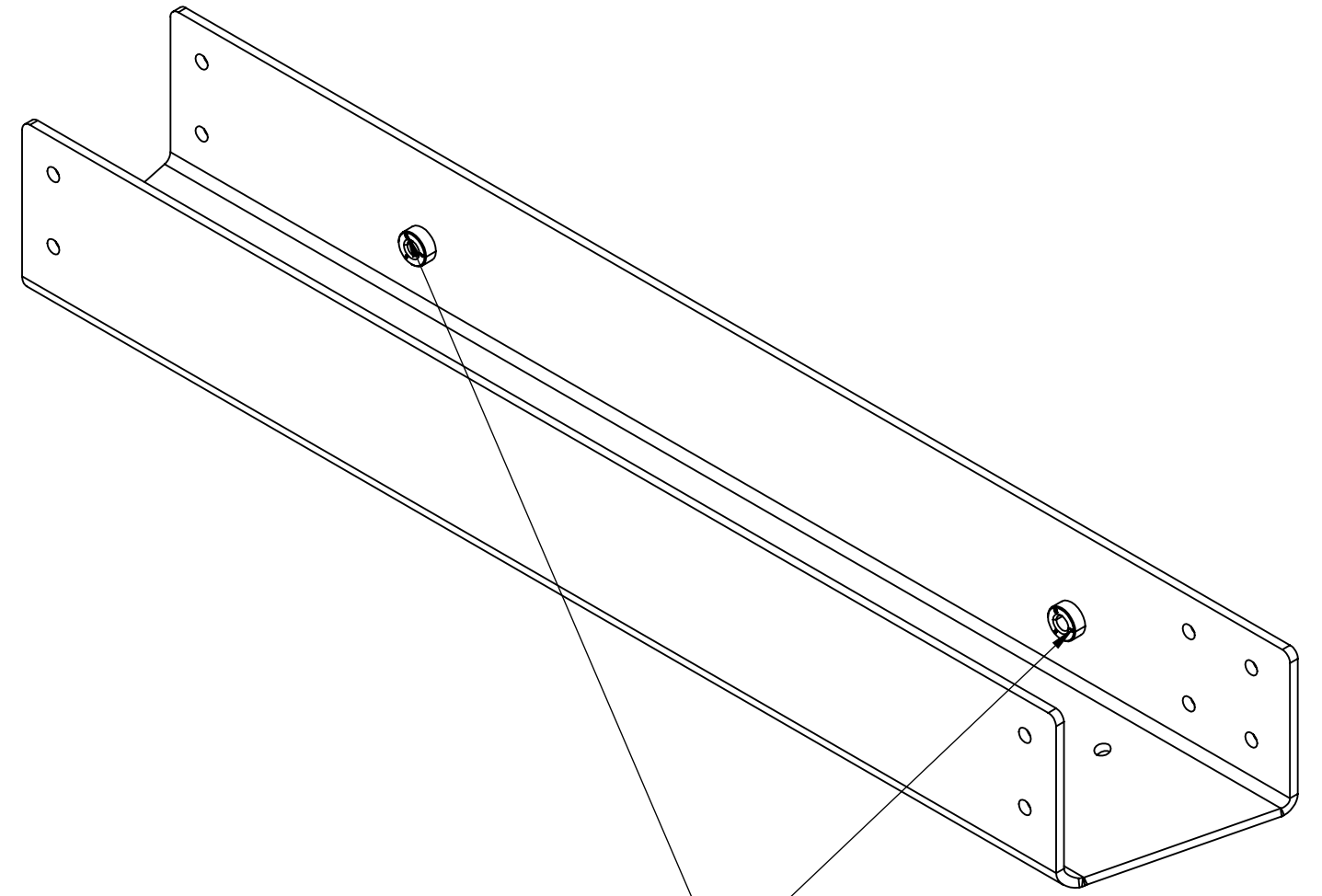
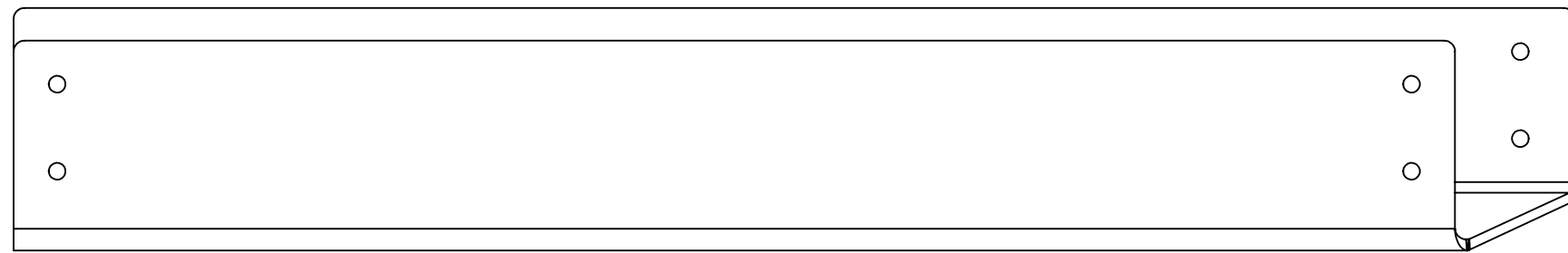
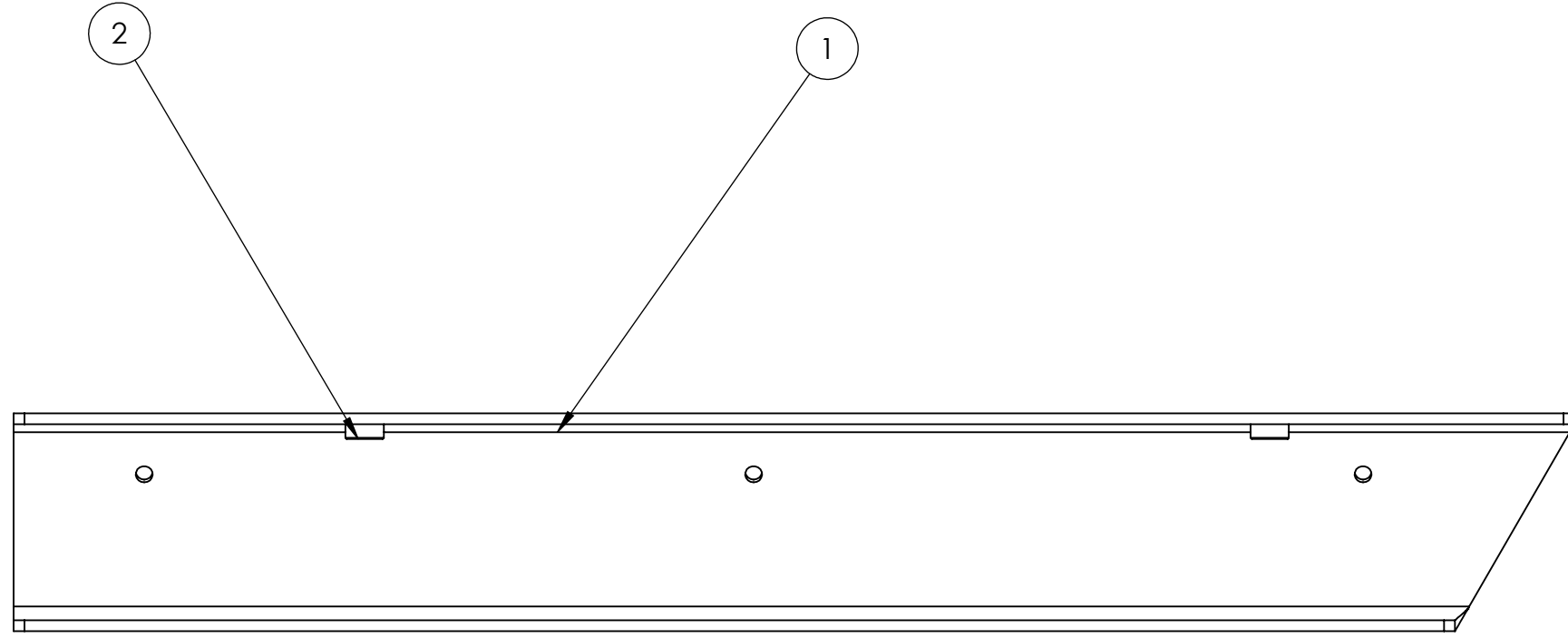
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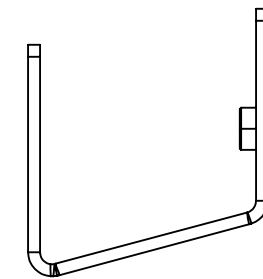
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2X PEM NUTS INSTALLED ON INTERIOR FACE



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25326-01	Outer Slice Left Top Channel	1
2	pem_clinchnut_.25_20 _.054	1/4-20 self-clinching nut, .054 shank	2

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ±1/16  
 ANGULAR: MACH ±1° BEND ±1°  
 TWO PLACE DECIMAL ±.01  
 THREE PLACE DECIMAL ±.005

**MATERIAL/FINISH:**

DO NOT SCALE DRAWING

VEND NAME DATE  
 DRAWN NE 9/30/2024

**PROPRIETARY AND CONFIDENTIAL**  
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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.

**FIRST ROBOTICS COMPETITION** **SOLIDWORKS** Modeling Solutions Partner

TITLE:  
**Outer Slice Left Top Channel W PEMs**

SIZE	DWG. NO.	REV
<b>C</b>	<b>GE-25326</b>	

SCALE: 1:2 SHEET 1 OF 1

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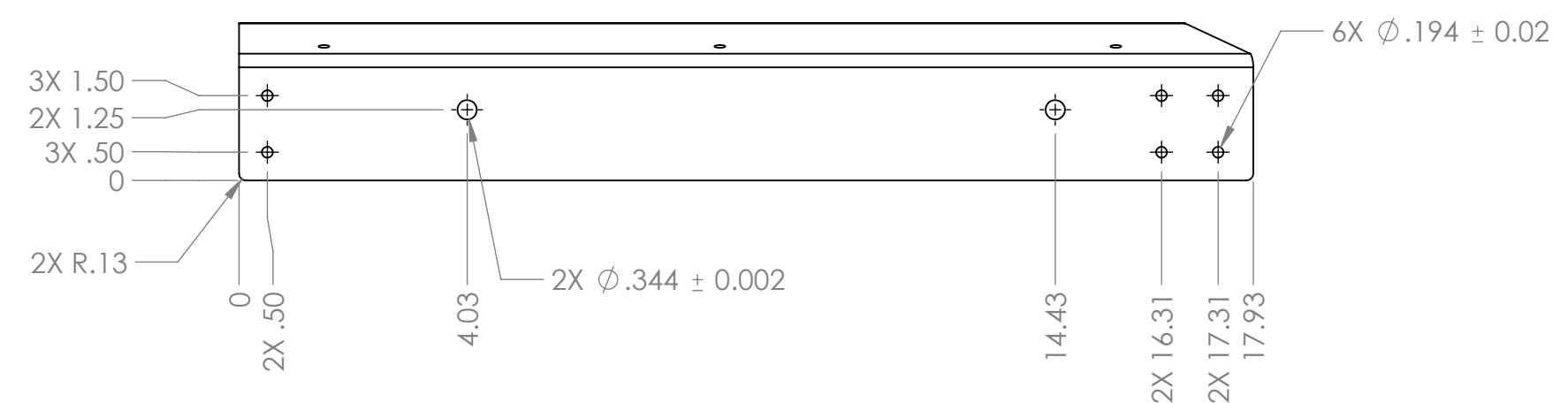
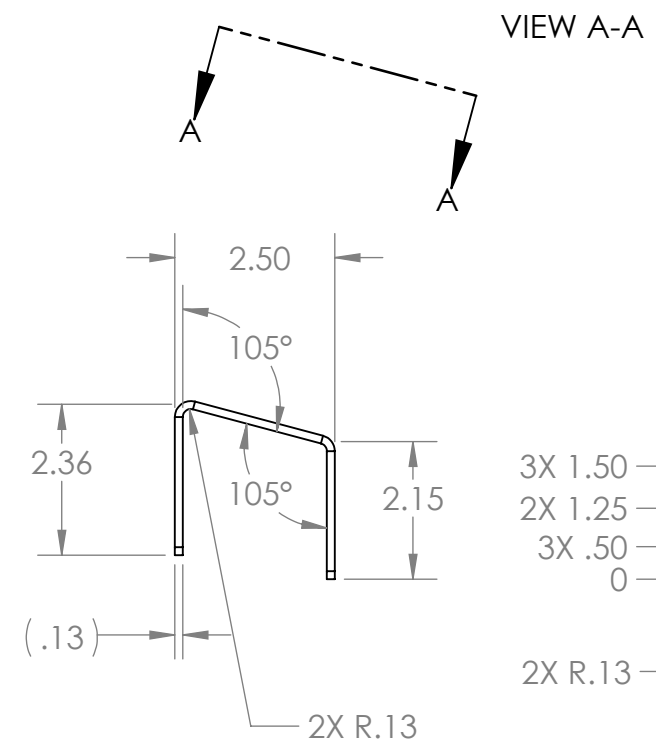
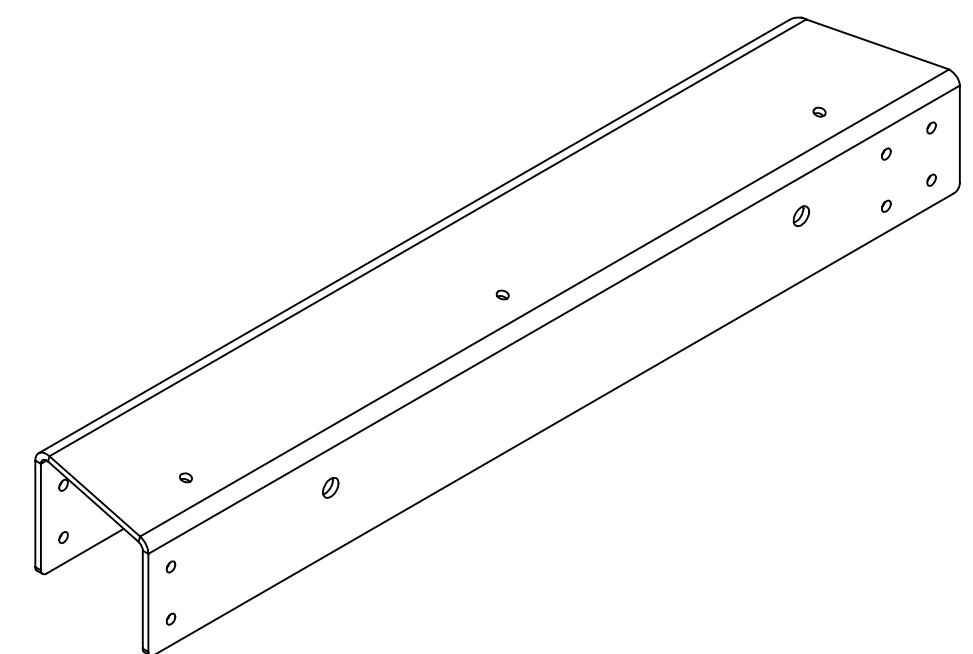
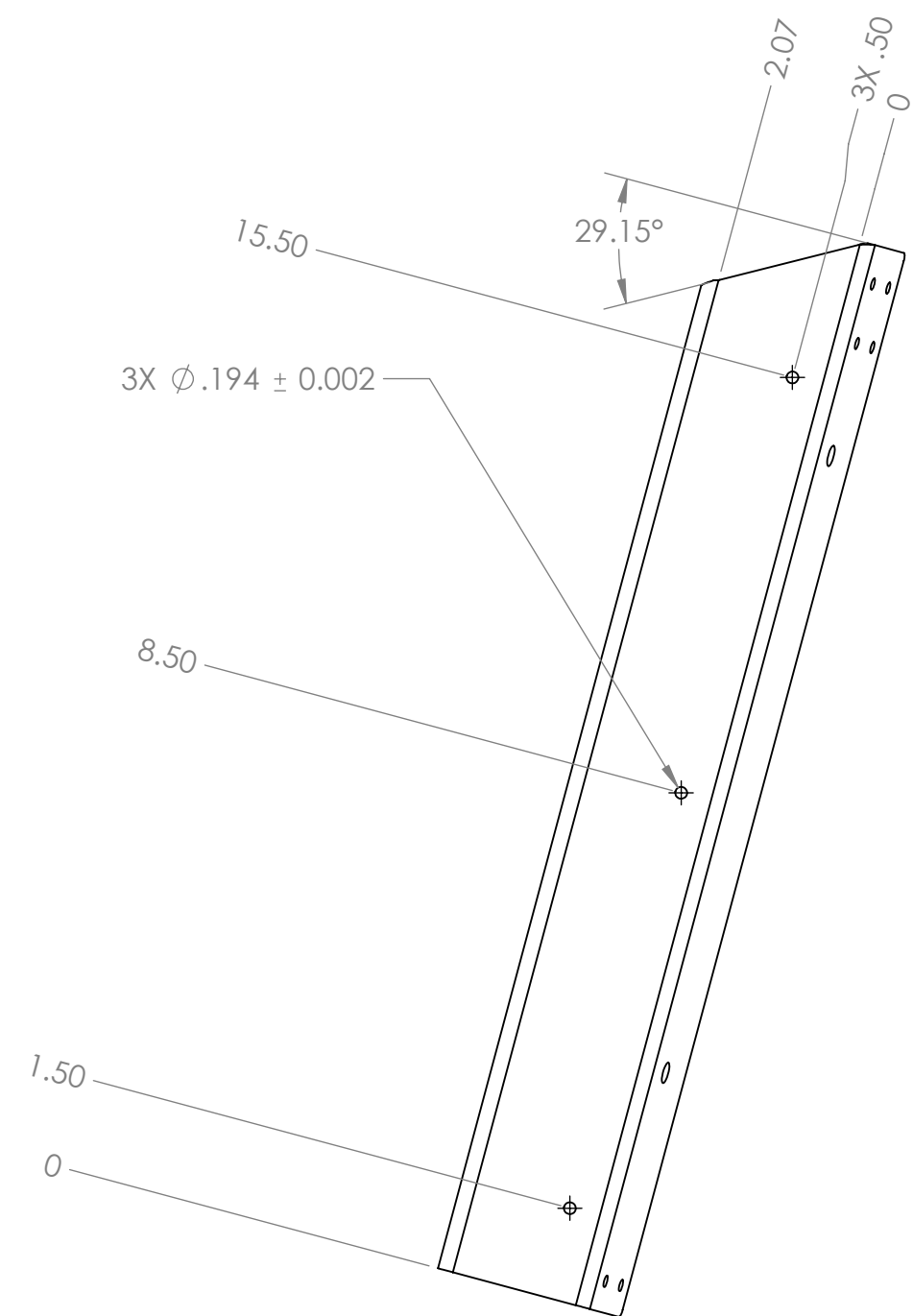
C



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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .02 THREE PLACE DECIMAL ± .010  <b>MATERIAL/FINISH:</b> 8GA 5052 Aluminum  DO NOT SCALE DRAWING	BEND	NAME	DATE	 
	DRAWN	NE	9/30/2024	
	<b>PROPRIETARY AND CONFIDENTIAL</b>			TITLE:
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	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			SIZE DWG. NO. REV
				<b>C</b> GE-25326-01
				SCALE: 1:3 SHEET 1 OF 1

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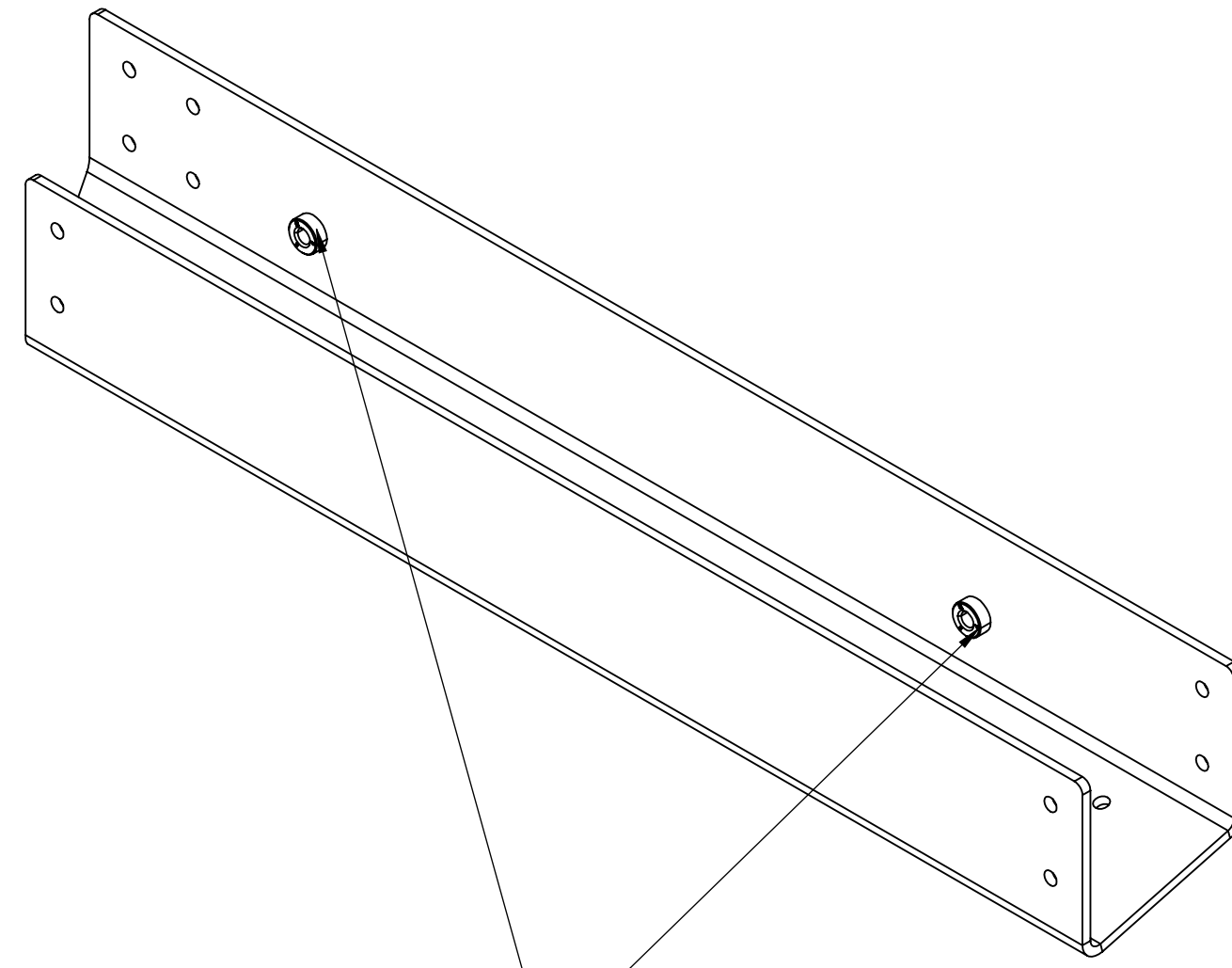
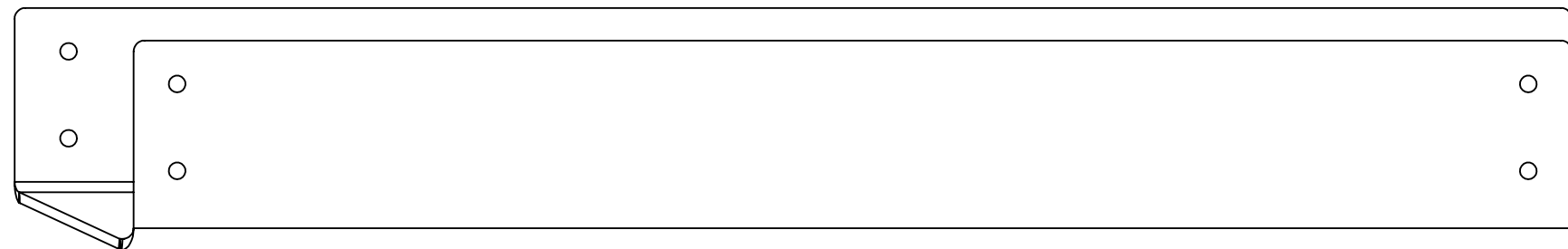
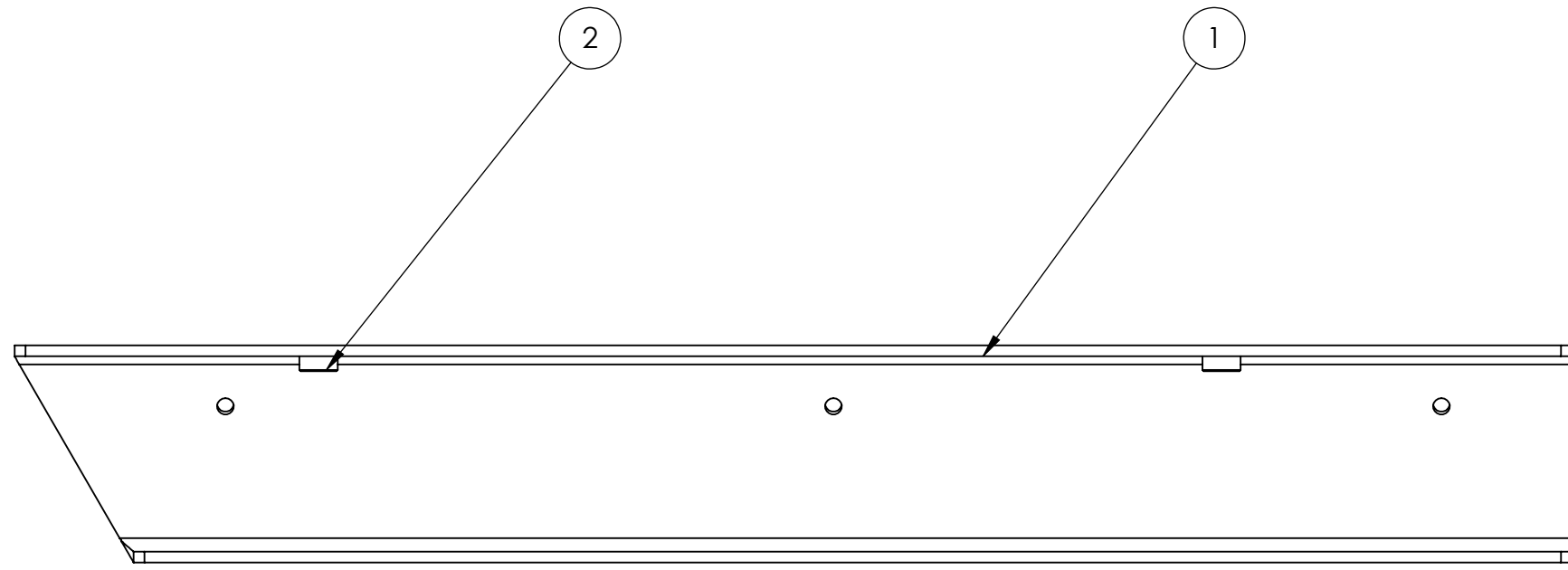
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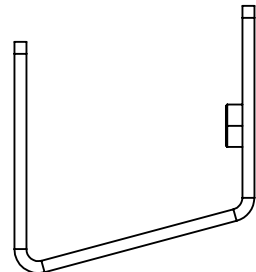
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2X PEM NUTS INSTALLED ON INTERIOR FACE



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25327-01	Outer Slice Right Top Channel	1
2	pem_clinchnut_.25_20 _.054	1/4-20 self-clinching nut, .054 shank	2

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ±1/16  
 ANGULAR: MACH ±1° BEND ±1°  
 TWO PLACE DECIMAL ±.01  
 THREE PLACE DECIMAL ±.005

**MATERIAL/FINISH:**

**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.

DO NOT SCALE DRAWING

VEND NAME DATE  
 DRAWN NE 9/30/2024

**PROPRIETARY AND CONFIDENTIAL**  
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**FIRST ROBOTICS COMPETITION** **SOLIDWORKS** Modeling Solutions Partner

TITLE:  
**Outer Slice Right Top Channel W PEMs**

SIZE	DWG. NO.	REV
<b>C</b>	<b>GE-25327</b>	

SCALE: 1:2 SHEET 1 OF 1

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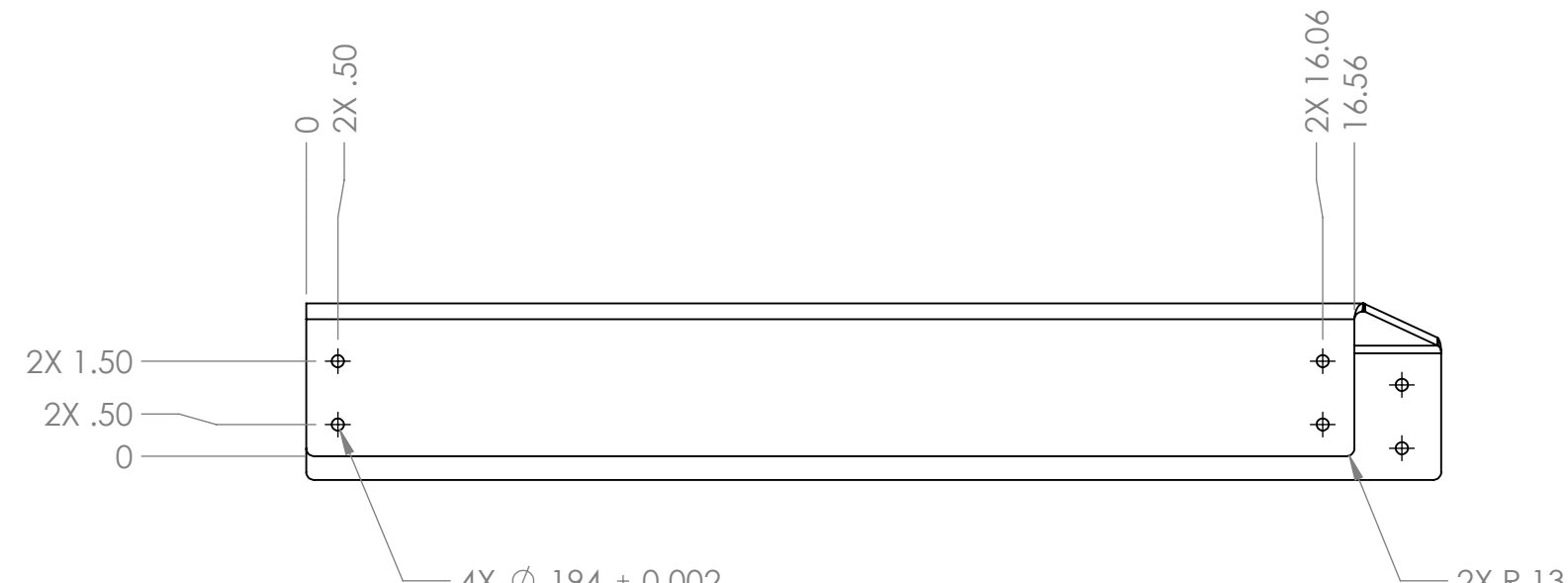
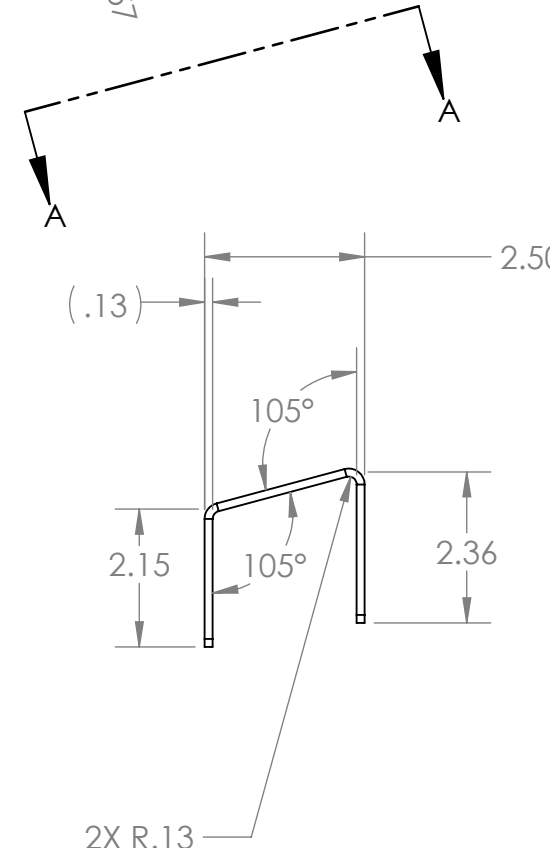
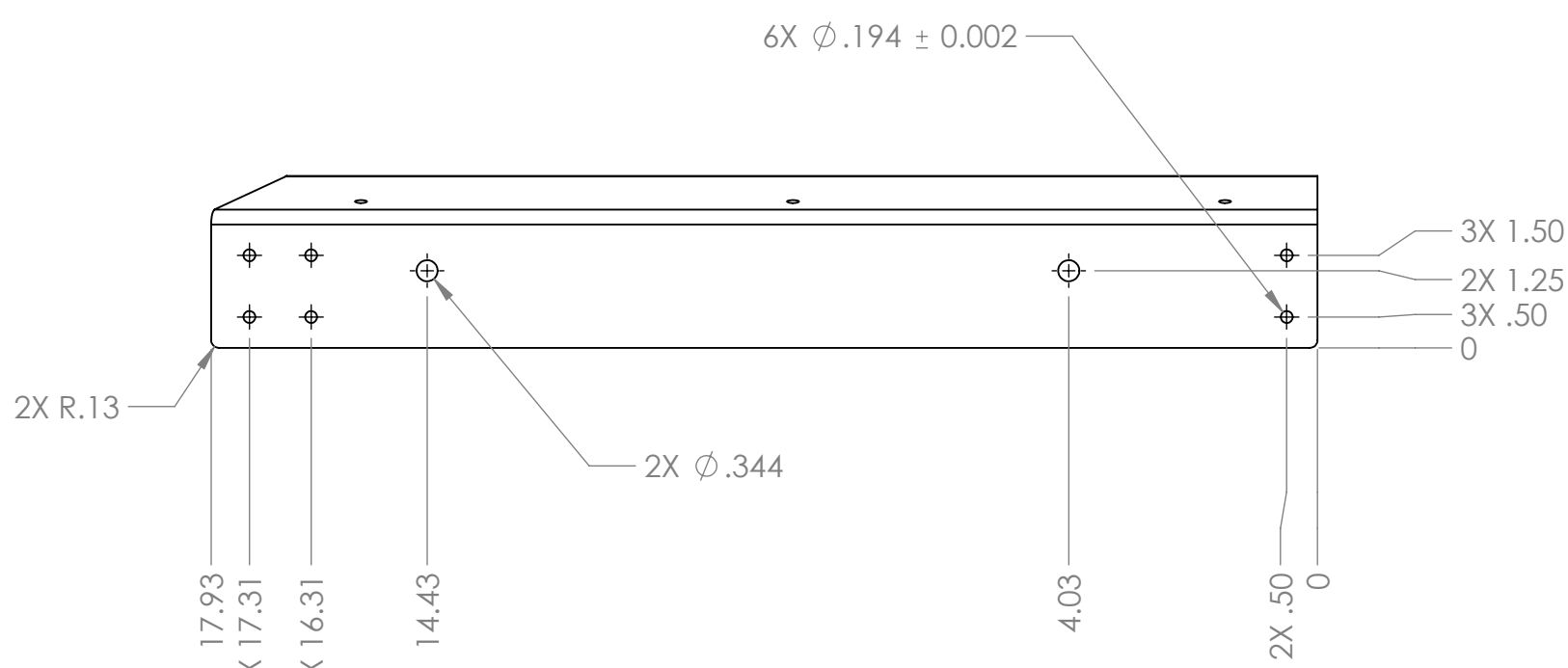
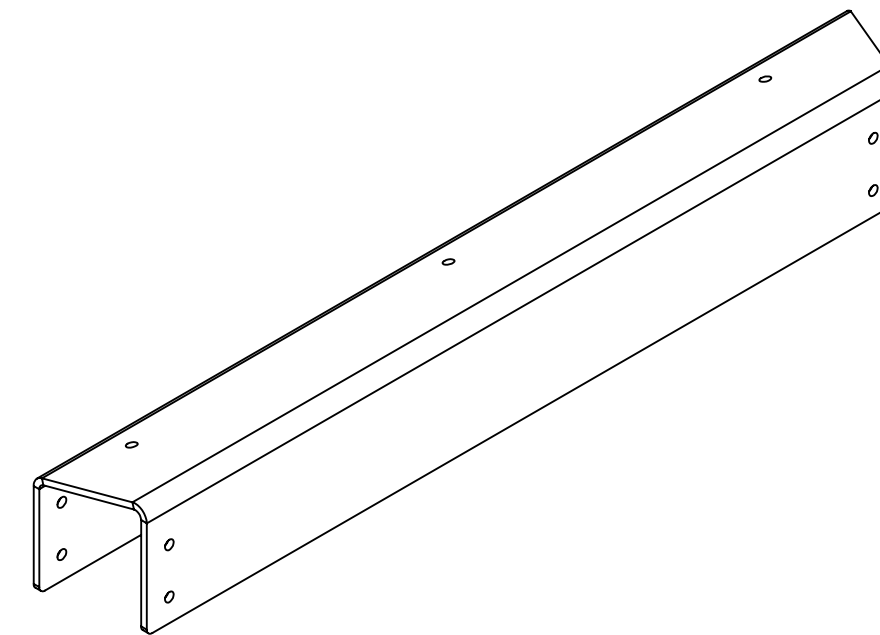
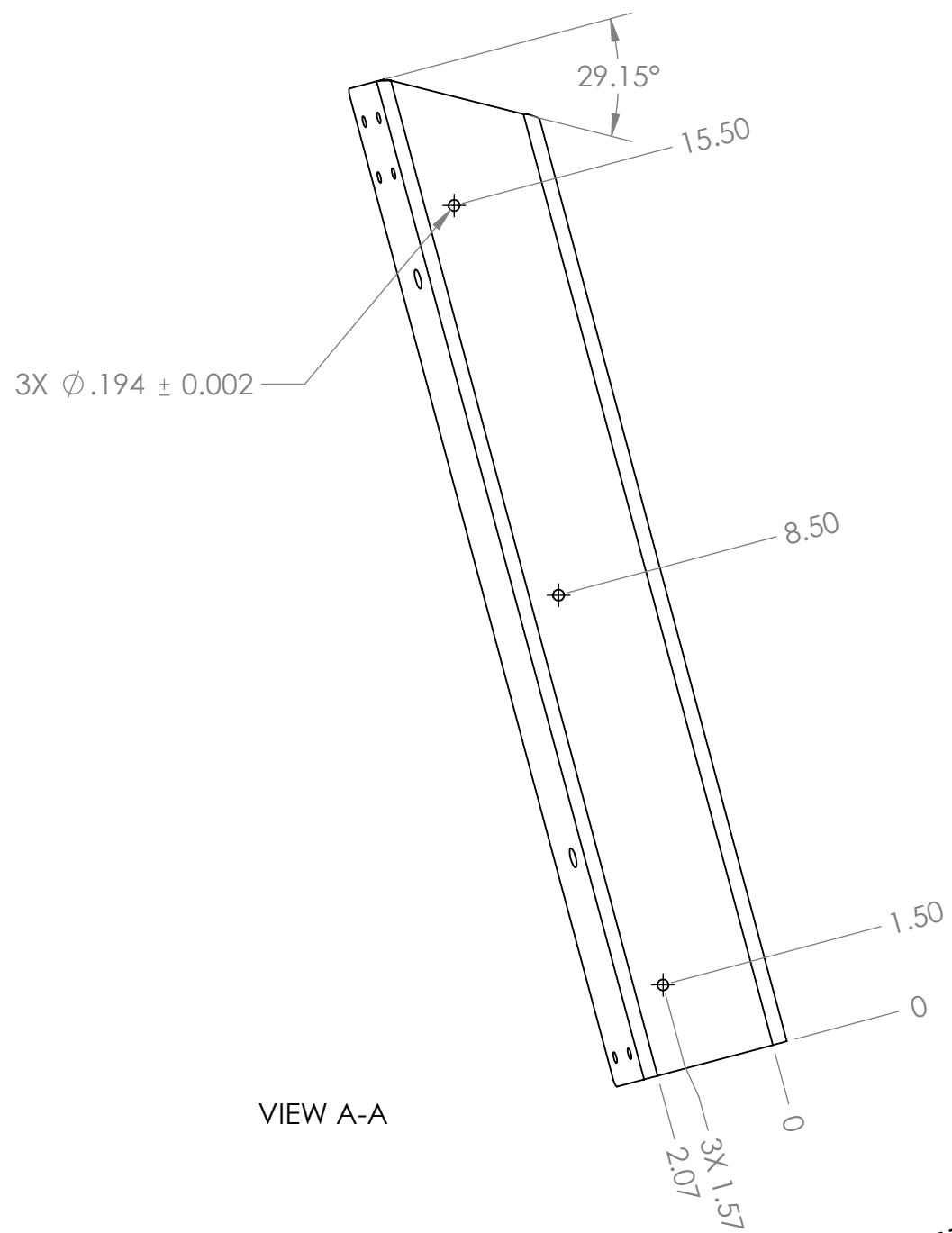




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UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .02 THREE PLACE DECIMAL ± .010  <b>MATERIAL/FINISH:</b> 8GA 5052 Aluminum  DO NOT SCALE DRAWING	BEND	NAME	DATE	 
	DRAWN	NE	9/30/2024	
	<b>PROPRIETARY AND CONFIDENTIAL</b>			TITLE:
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			Outer Slice Right Top Channel
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			SIZE DWG. NO. REV
				<b>C</b> GE-25327-01
	SCALE: 1:3		SHEET 1 OF 1	

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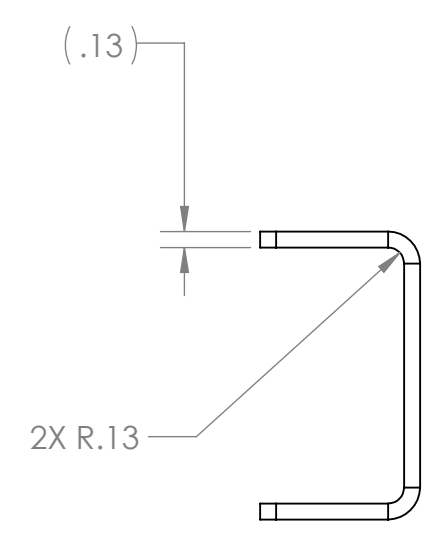
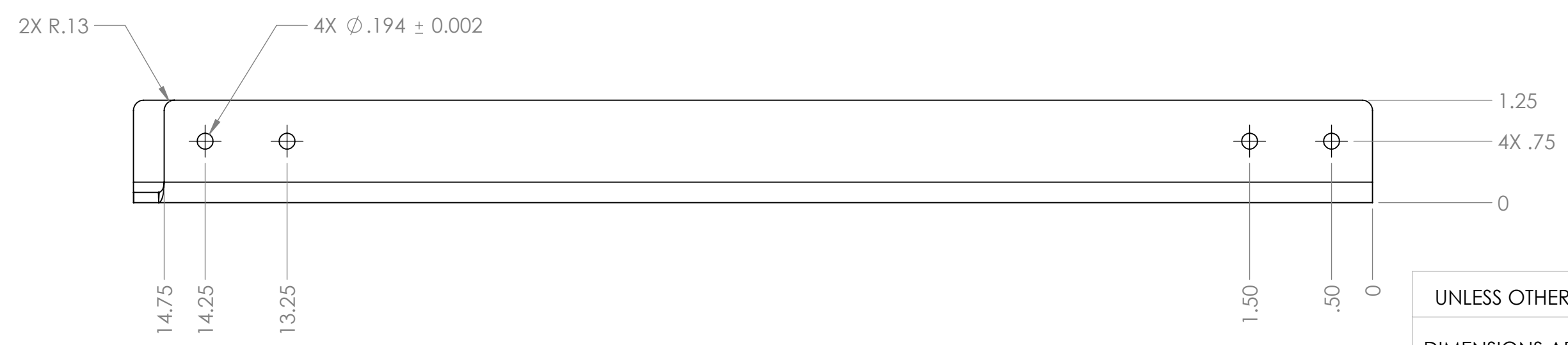
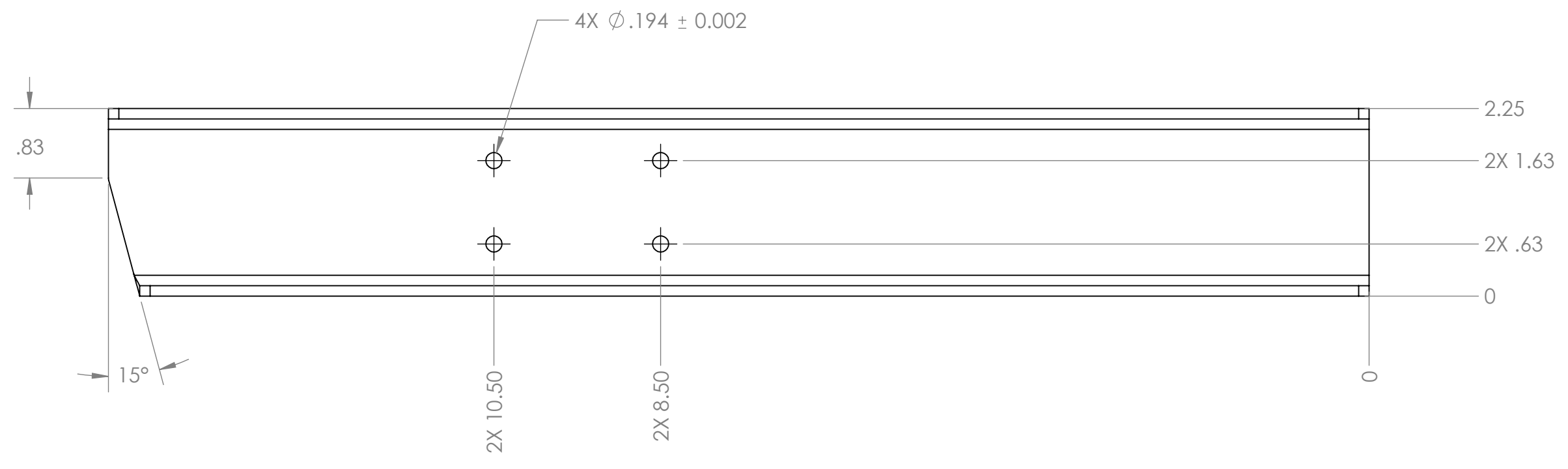
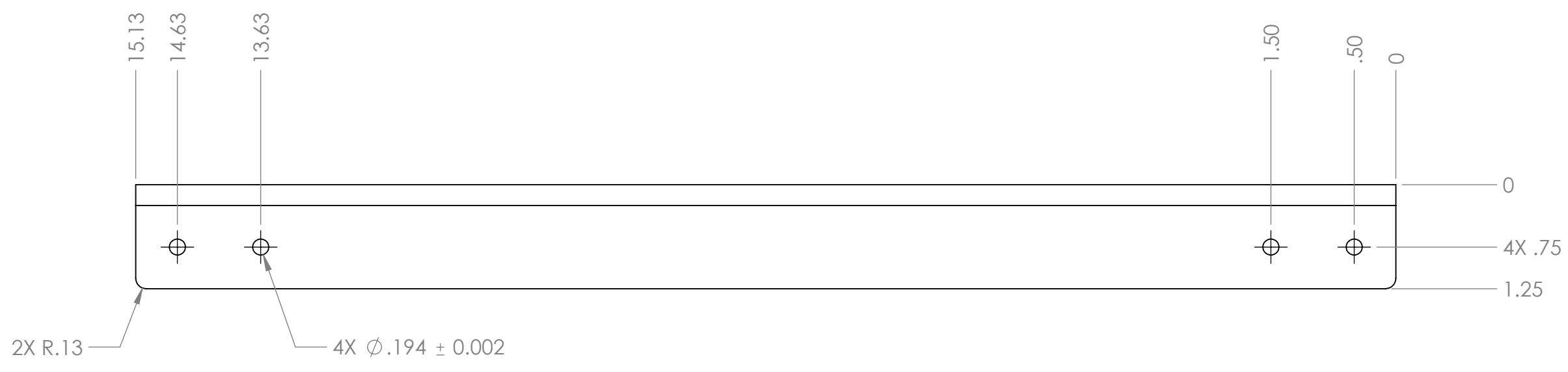
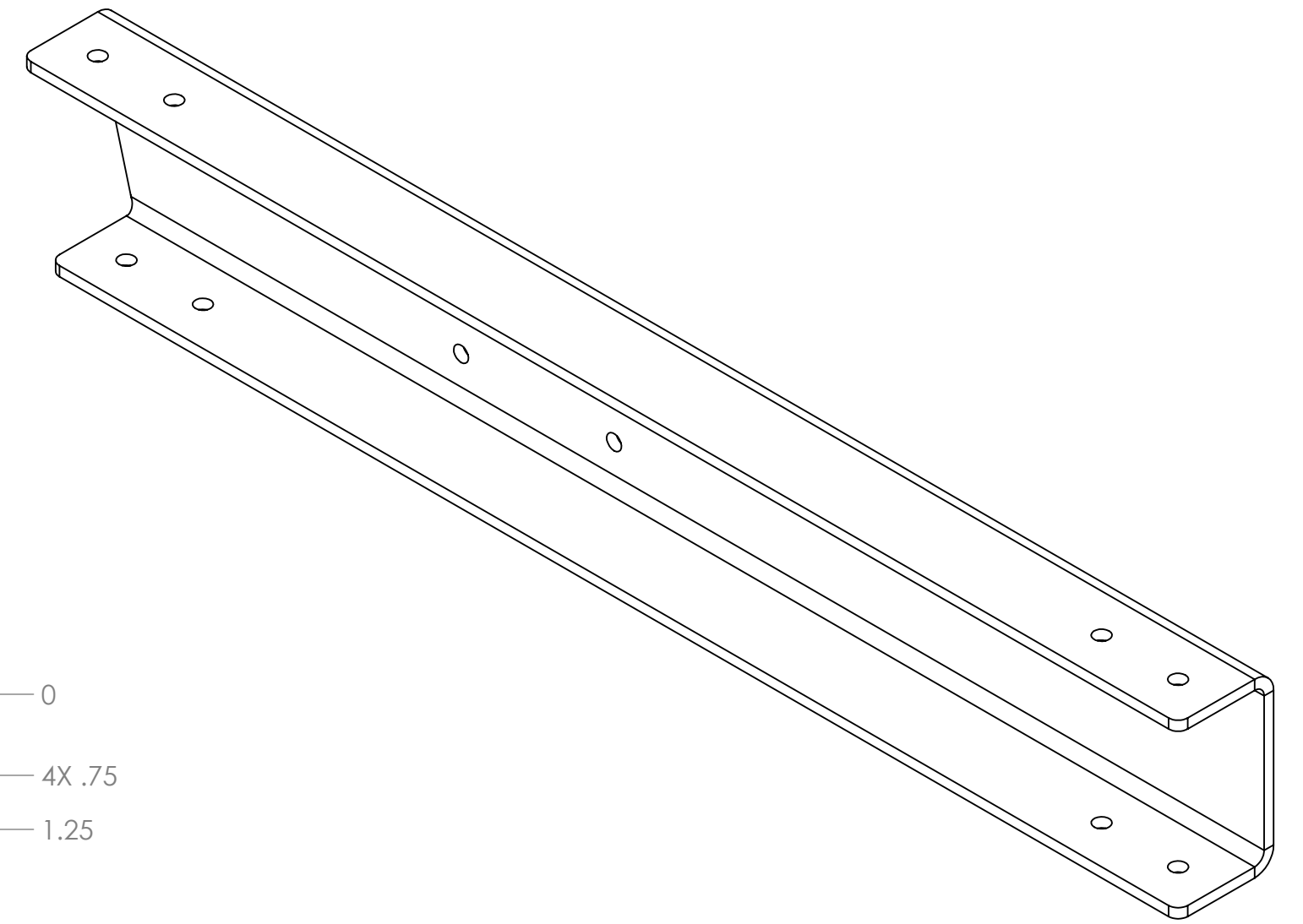
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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .02 THREE PLACE DECIMAL ± .010  <b>MATERIAL/FINISH:</b> 8GA 5052 Aluminum  DO NOT SCALE DRAWING	BEND	NAME	DATE
	DRAWN	NE	9/30/2024
	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.		
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		

 		
TITLE: Outer Slice End Vertical Left		
SIZE	DWG. NO.	REV
<b>C</b>	GE-25328	
SCALE: 2:3		SHEET 1 OF 1

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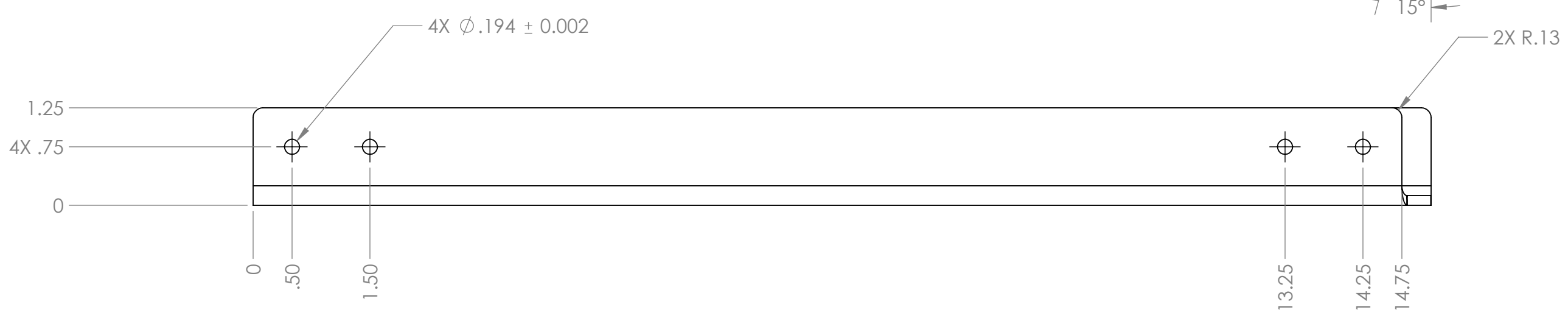
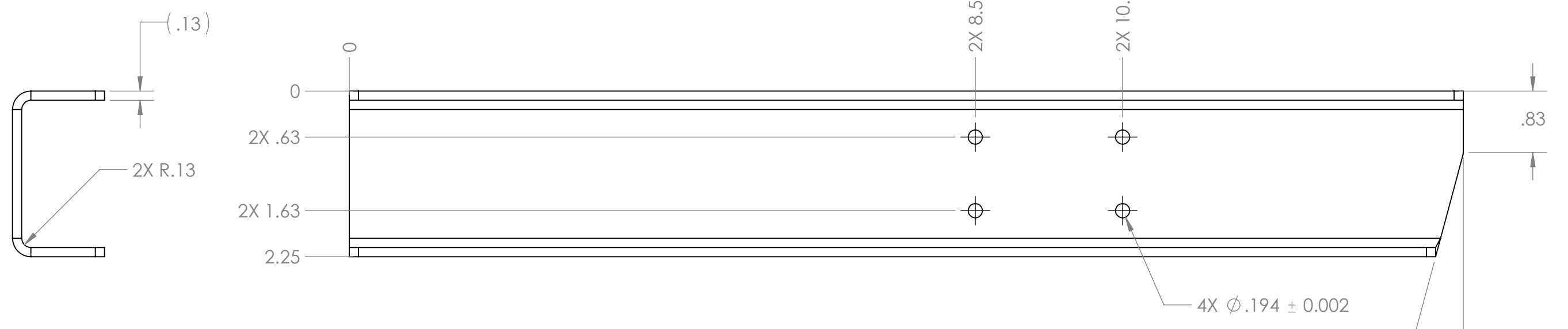
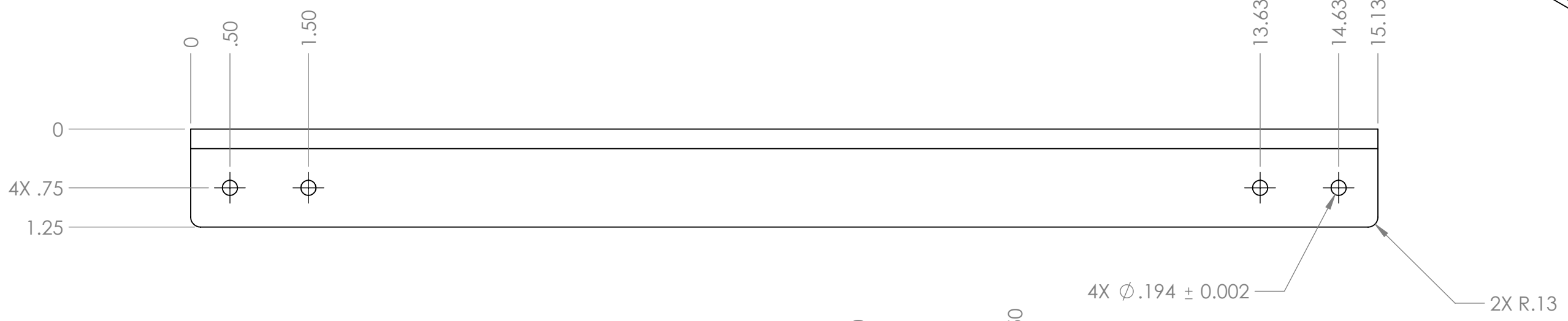
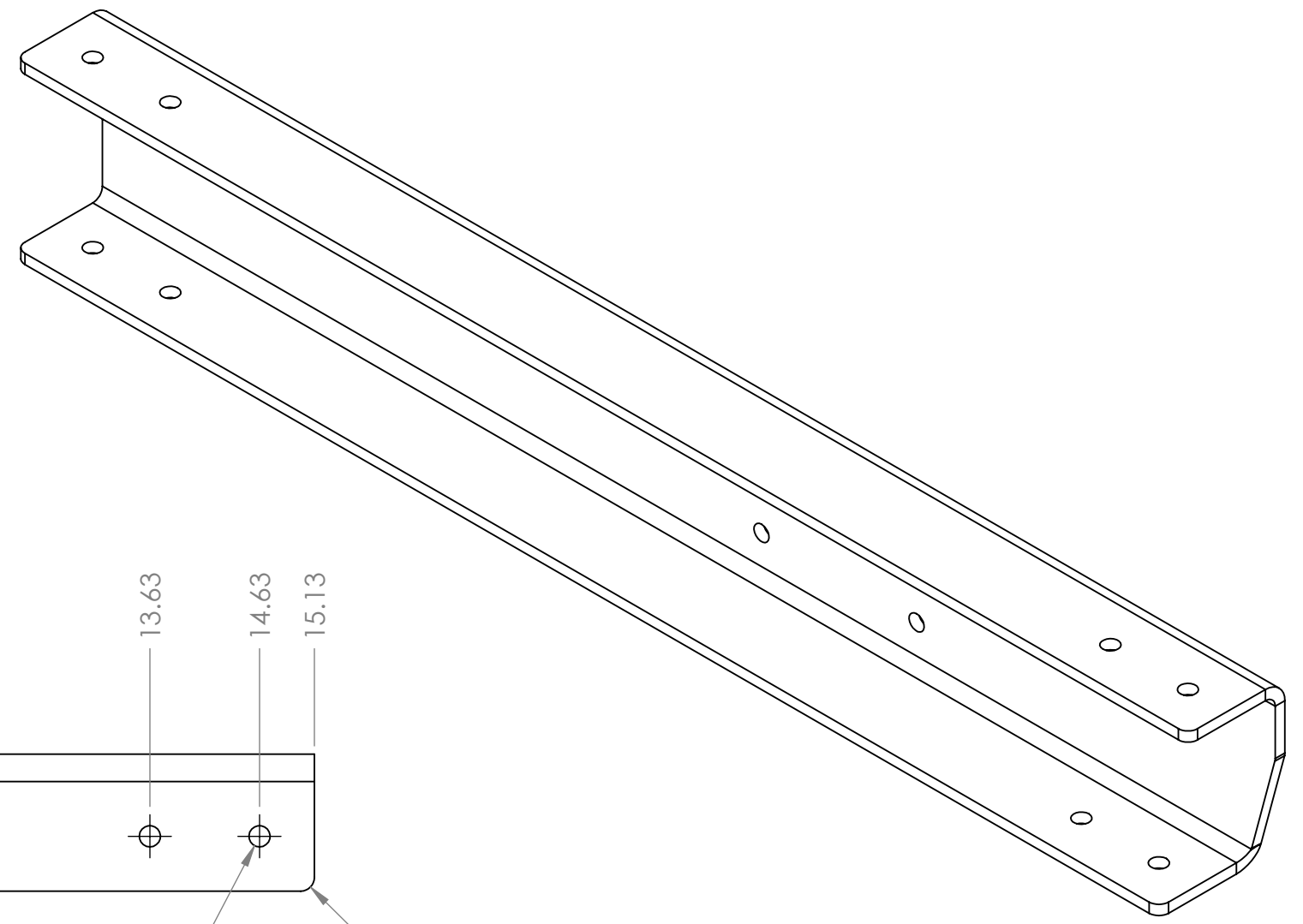
C



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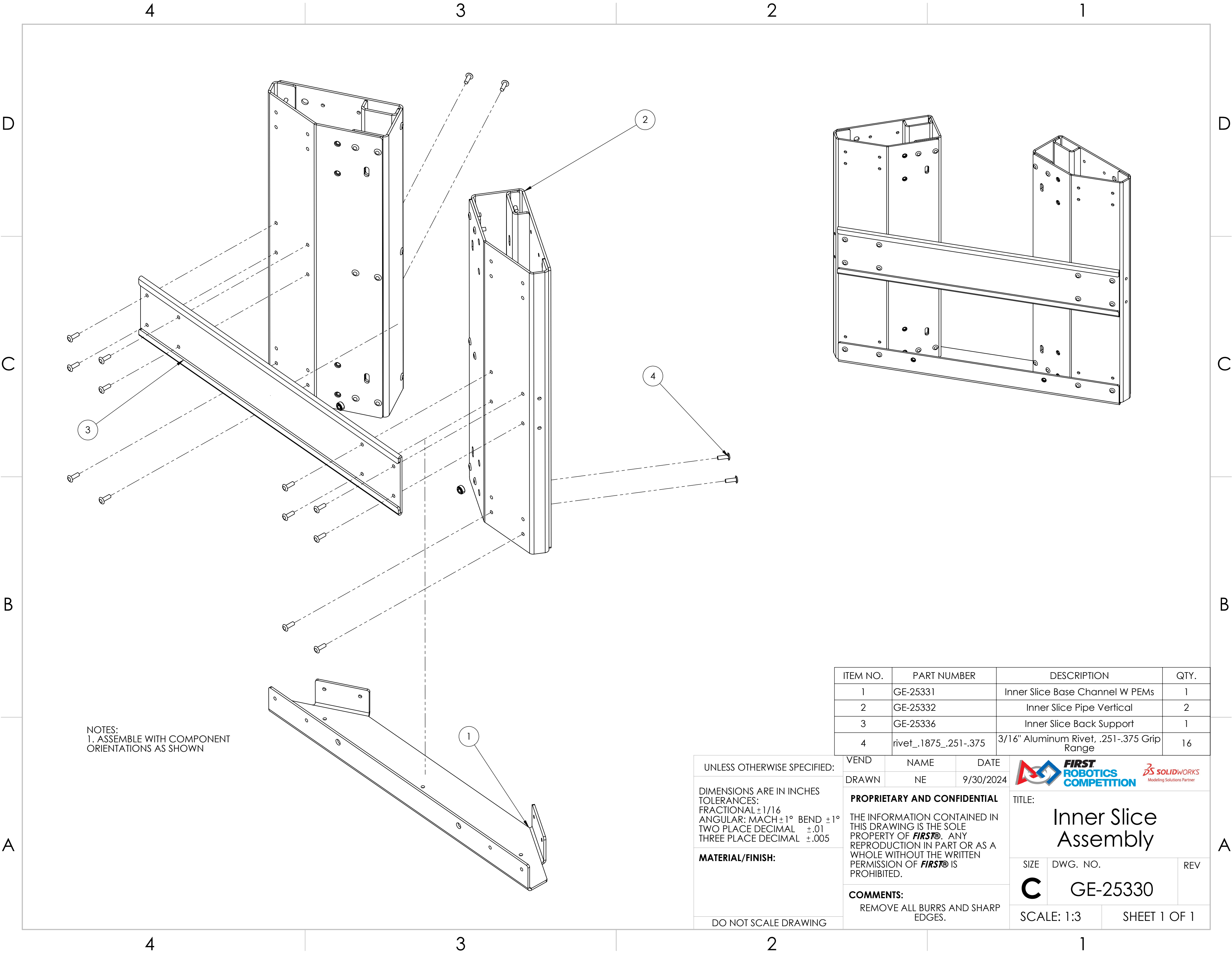
B

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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .02 THREE PLACE DECIMAL ± .010  <b>MATERIAL/FINISH:</b> 8GA 5052 Aluminum  DO NOT SCALE DRAWING	BEND	NAME	DATE	 
	DRAWN	NE	9/30/2024	
<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.				TITLE:
				Outer Slice End Vertical Right
SIZE		DWG. NO.	REV	
C		GE-25329		
SCALE: 2:3		SHEET 1 OF 1		



NOTES:  
1. ASSEMBLE WITH COMPONENT ORIENTATIONS AS SHOWN

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25331	Inner Slice Base Channel W PEMs	1
2	GE-25332	Inner Slice Pipe Vertical	2
3	GE-25336	Inner Slice Back Support	1
4	rivet_.1875_.251-.375	3/16" Aluminum Rivet, .251-.375 Grip Range	16

UNLESS OTHERWISE SPECIFIED:		VEND	NAME	DATE
DIMENSIONS ARE IN INCHES		DRAWN	NE	9/30/2024
TOLERANCES:		<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.		
FRACTIONAL ±1/16				
ANGULAR: MACH ±1° BEND ±1°				
TWO PLACE DECIMAL ±.01		TITLE: <h2 style="text-align: center;">Inner Slice Assembly</h2>		
THREE PLACE DECIMAL ±.005		SIZE DWG. NO. REV <h1 style="text-align: center;">C GE-25330</h1>		
<b>MATERIAL/FINISH:</b>		<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		
DO NOT SCALE DRAWING		SCALE: 1:3		SHEET 1 OF 1



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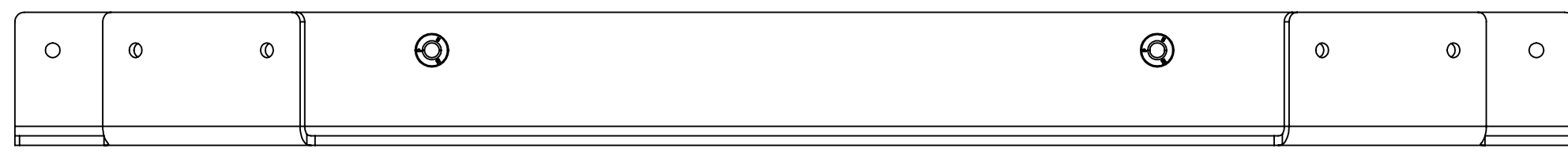
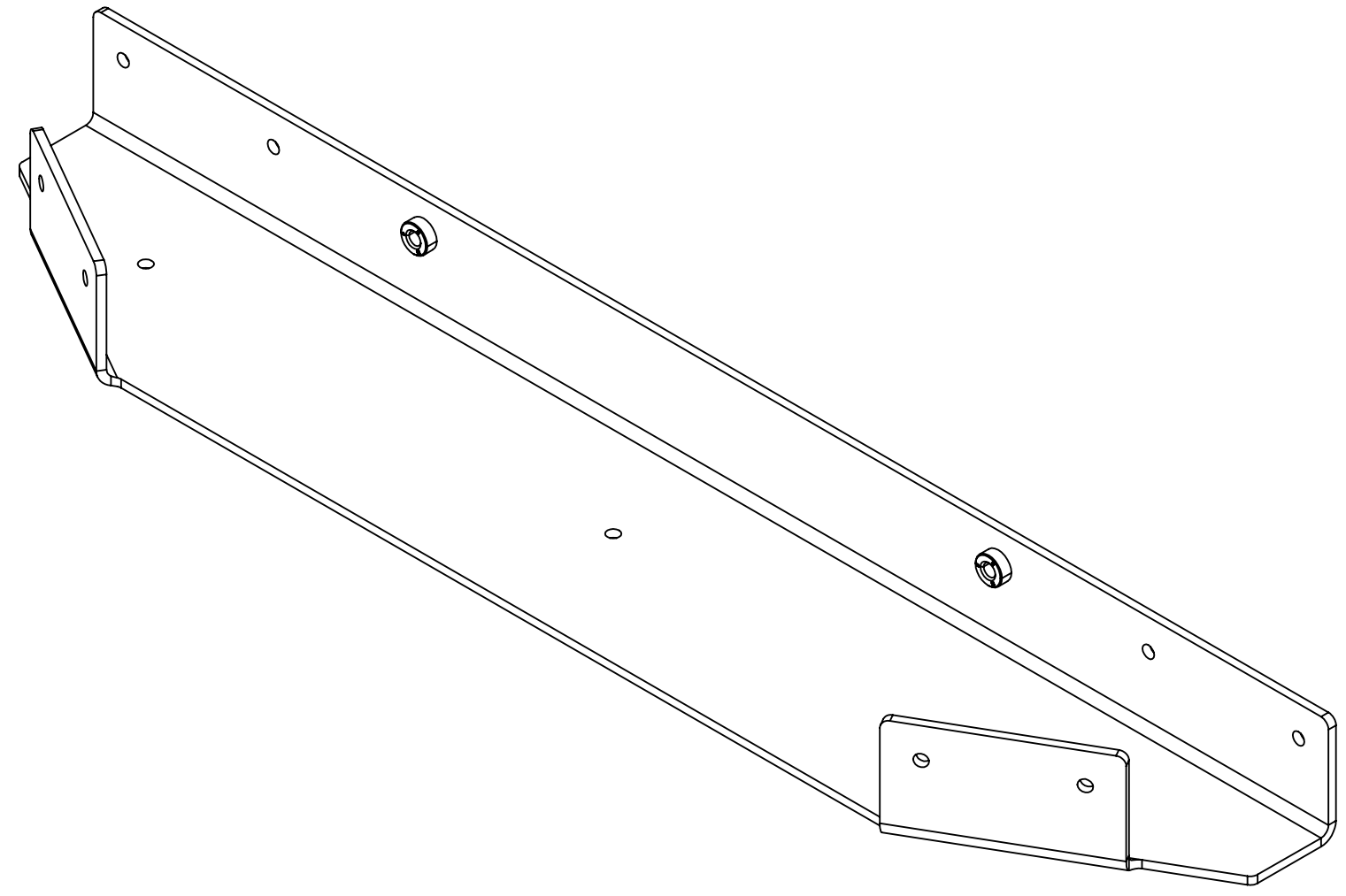
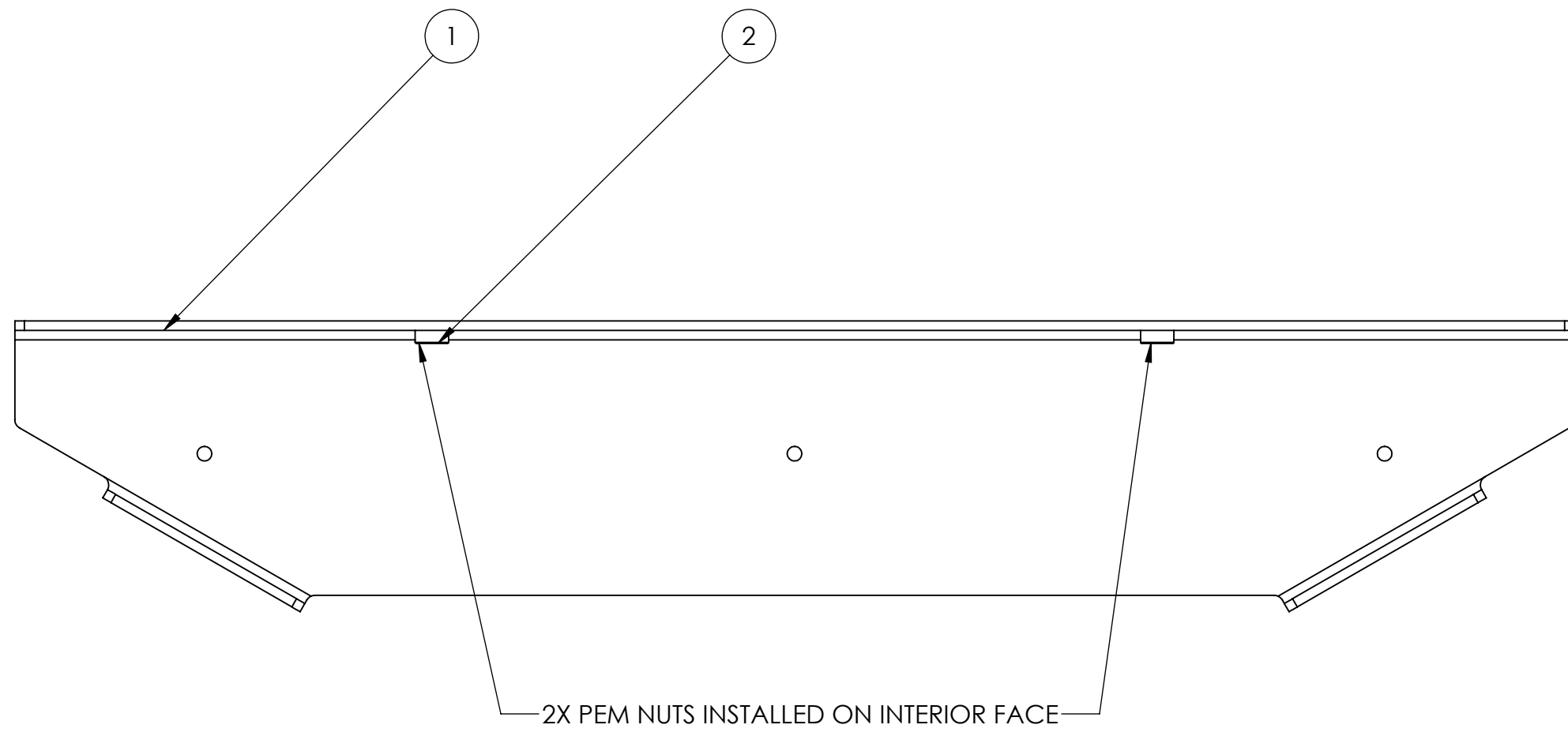
C

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NOTES:  
1. REMOVE ALL BUTTS AND SHARP EDGES

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25331-01	Inner Slice Base Channel	1
2	pem_clinchnut_.25_20 _.054	1/4-20 self-clinching nut, .054 shank	2

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ±1/16  
 ANGULAR: MACH ±1° BEND ±1°  
 TWO PLACE DECIMAL ±.01  
 THREE PLACE DECIMAL ±.005

**MATERIAL/FINISH:**

DO NOT SCALE DRAWING

VEND NAME DATE  
 DRAWN NE 9/30/2024

**PROPRIETARY AND CONFIDENTIAL**

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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.

**FIRST ROBOTICS COMPETITION** **SOLIDWORKS** Modeling Solutions Partner

TITLE:  
**Inner Slice Base Channel W PEMs**

SIZE	DWG. NO.	REV
<b>C</b>	<b>GE-25331</b>	

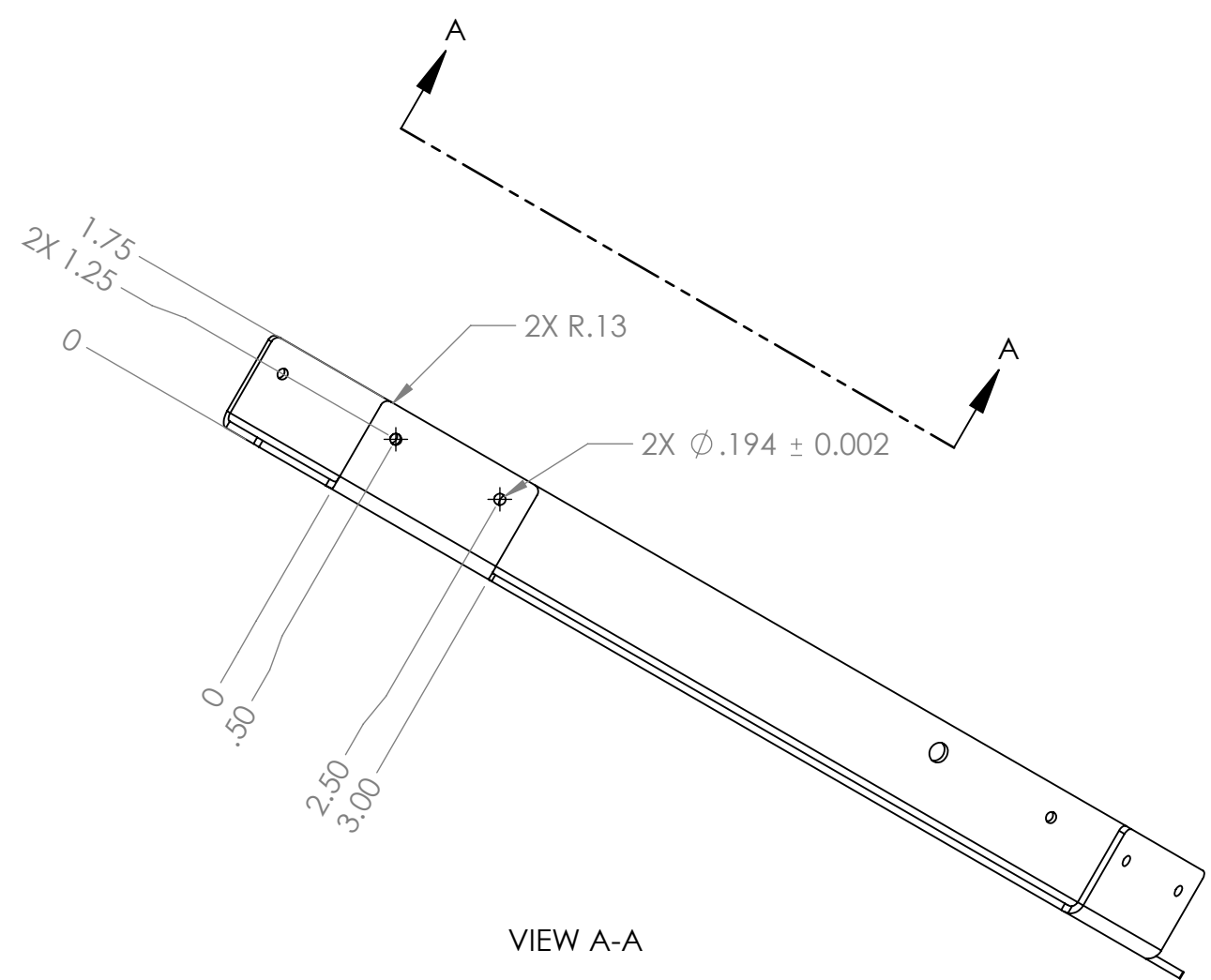
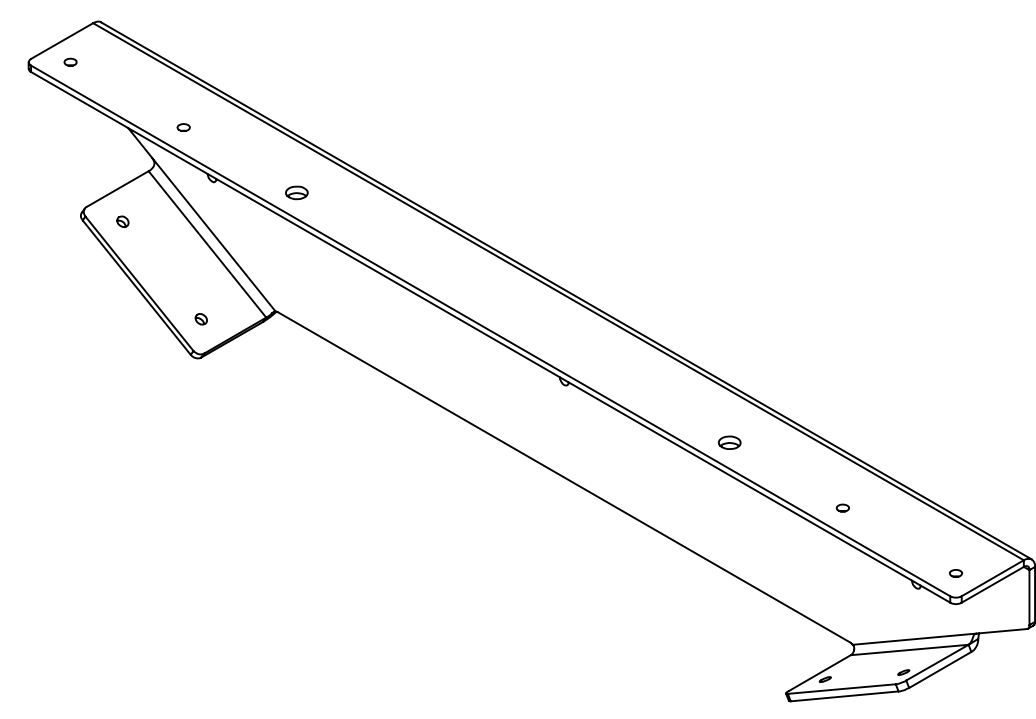
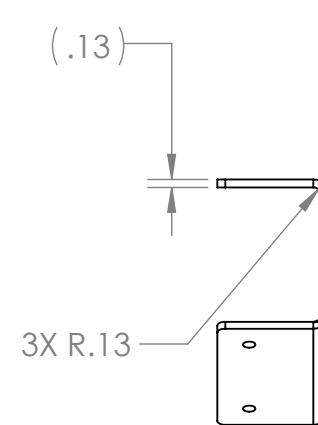
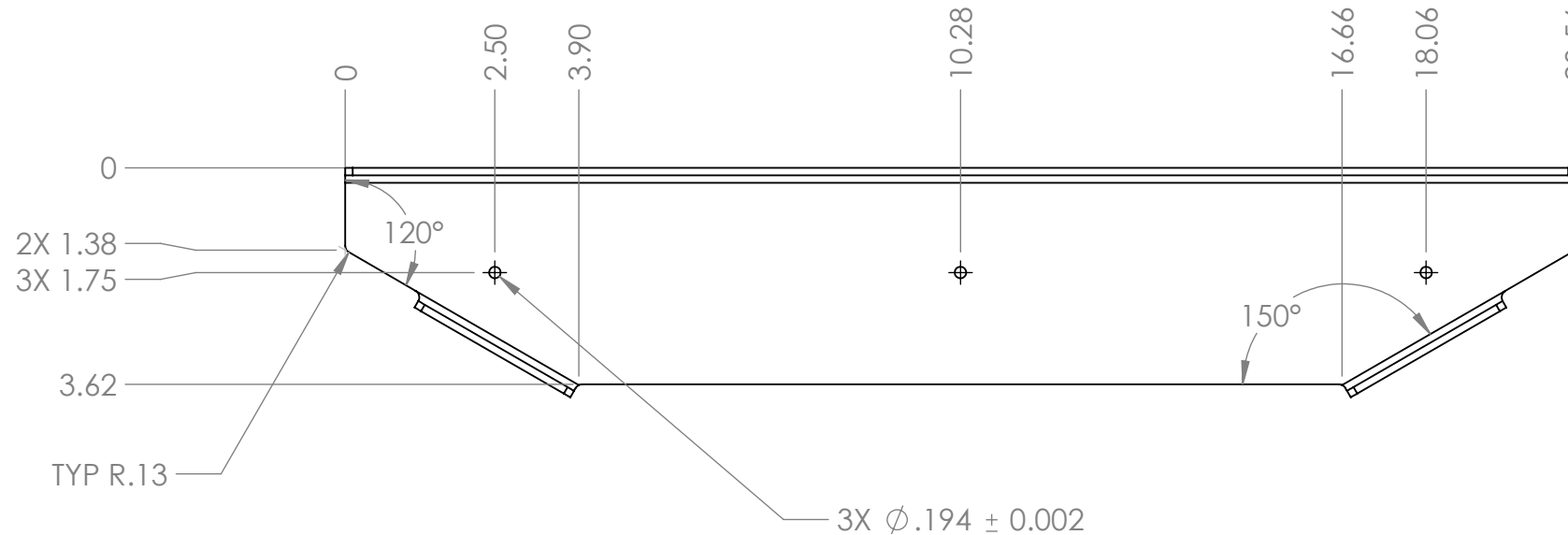
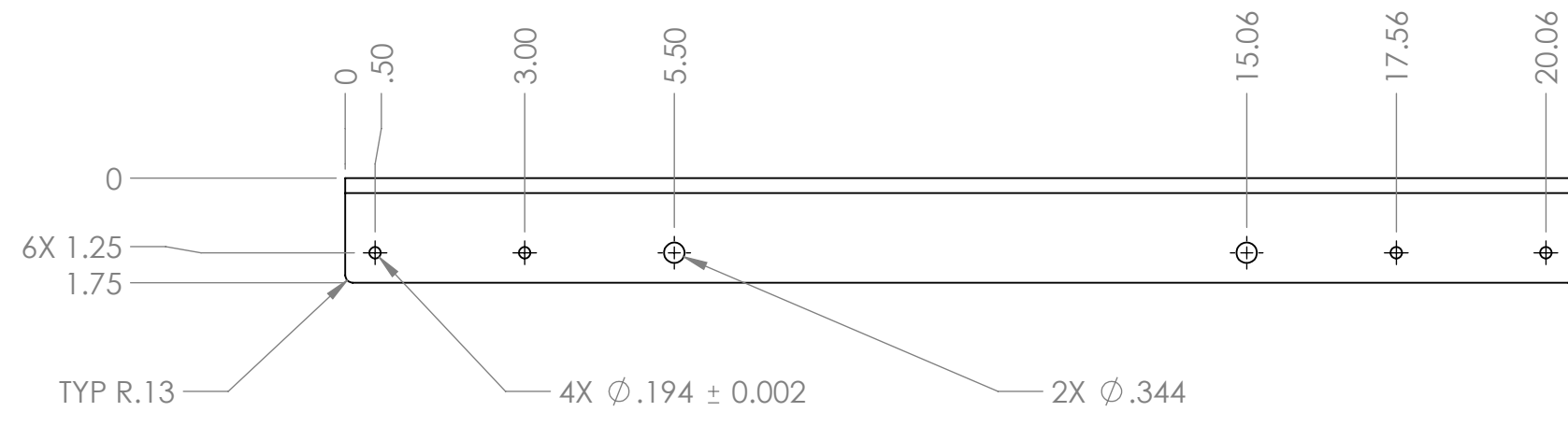
SCALE: 1:2 SHEET 1 OF 1

4

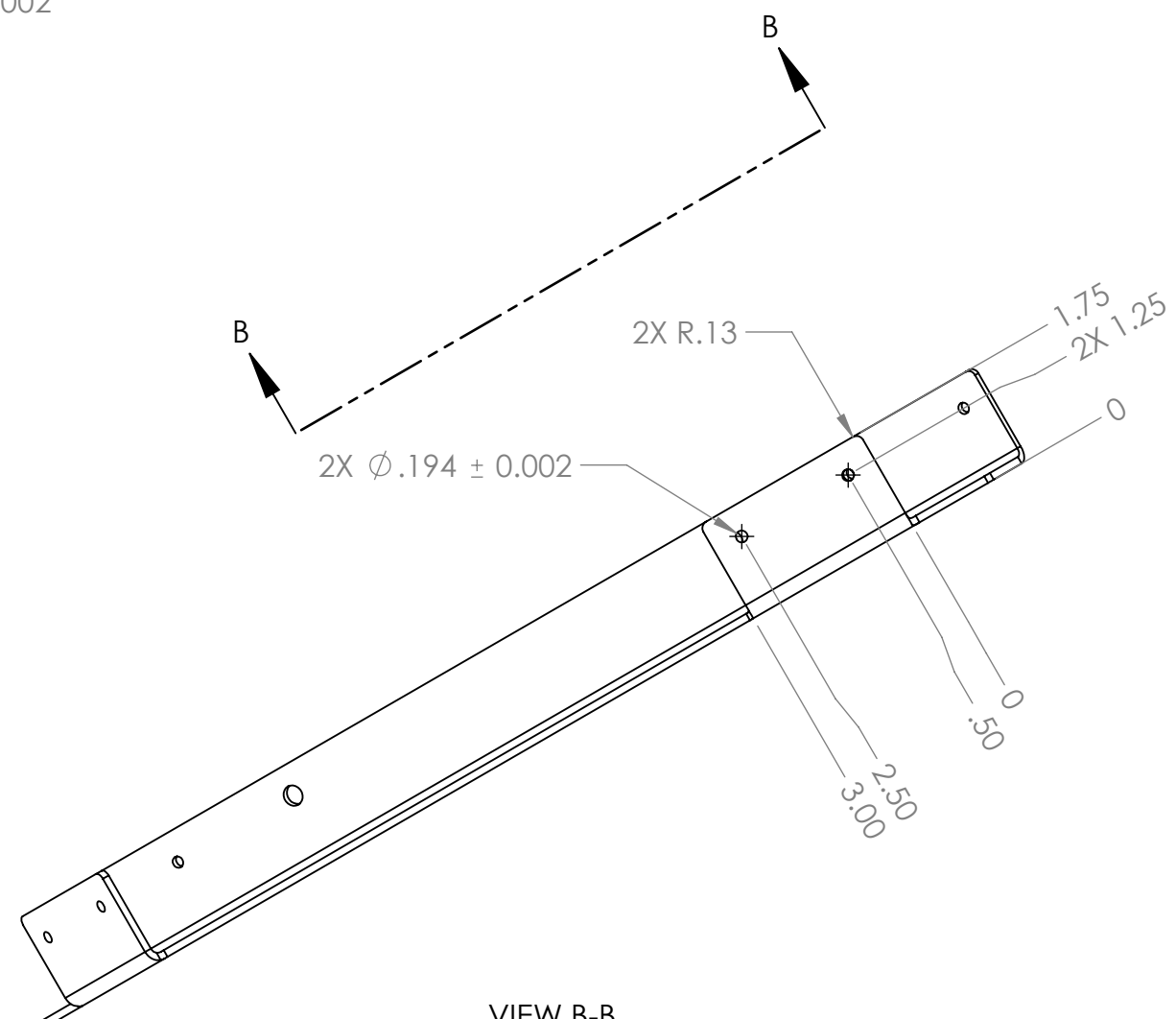
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VIEW A-A



VIEW B-B

UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .02 THREE PLACE DECIMAL ± .010  <b>MATERIAL/FINISH:</b> 8GA 5052 Aluminum  DO NOT SCALE DRAWING	BEND	NAME	DATE	
	DRAWN	NE	9/30/2024	
	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			TITLE: <b>Inner Slice Base Channel</b>
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			SIZE DWG. NO. REV <b>C</b> GE-25331-01
			SCALE: 1:3	SHEET 1 OF 1

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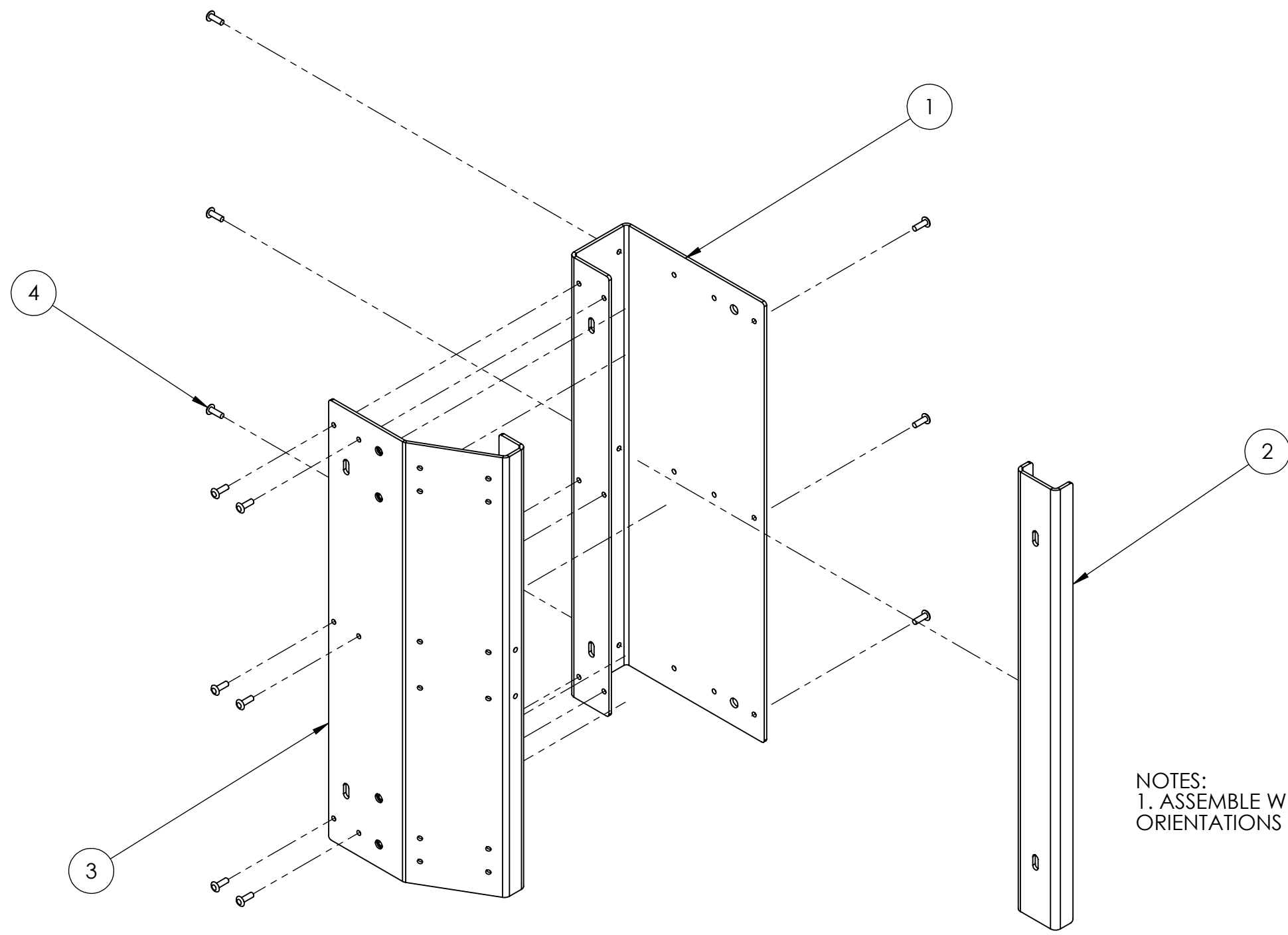
C

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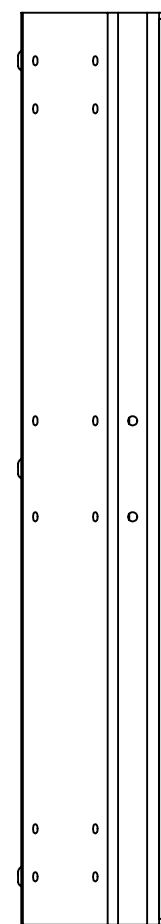
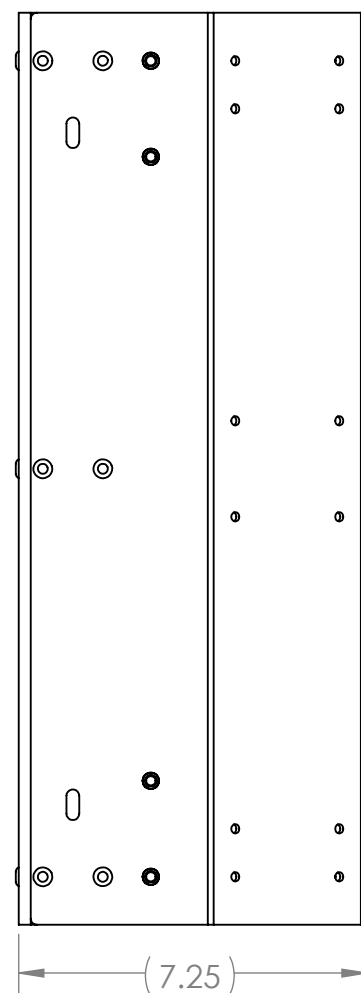
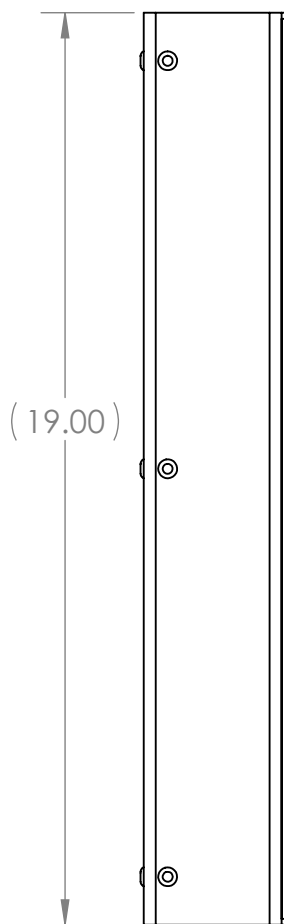
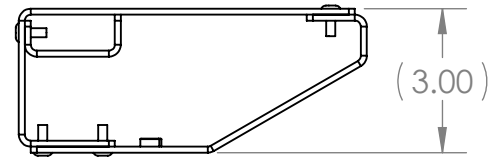
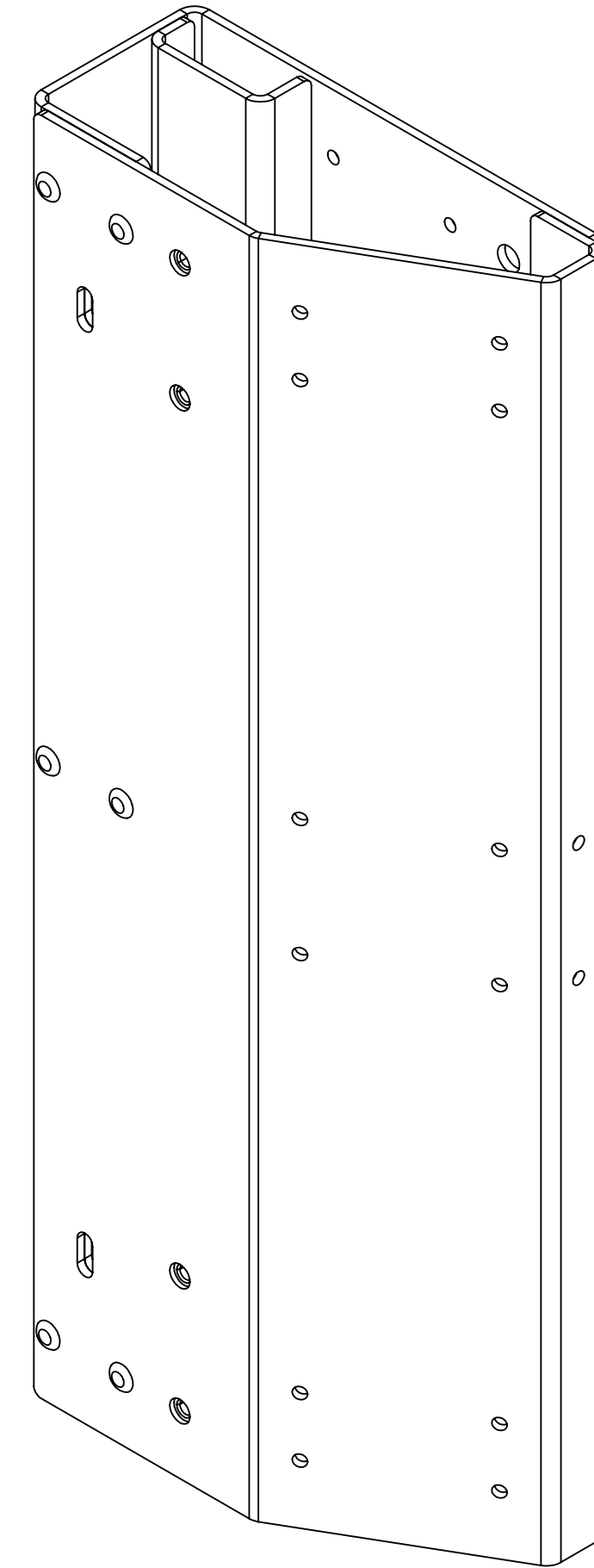
B

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A



NOTES:  
1. ASSEMBLE WITH COMPONENT ORIENTATIONS AS SHOWN



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25335	Inner Slice Pipe Vertical Inner Shell	1
2	GE-25333	Inner Slice Pipe Backing	1
3	GE-25334	Inner Slice Pipe Vertical Outer Shell W PEMs	1
4	rivet_.1875_.251-.375	3/16" Aluminum Rivet, .251-.375 Grip Range	12

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ±1/16  
 ANGULAR: MACH ±1° BEND ±1°  
 TWO PLACE DECIMAL ±.01  
 THREE PLACE DECIMAL ±.005

**MATERIAL/FINISH:**

DO NOT SCALE DRAWING

VEND NAME DATE  
 DRAWN NE 9/27/2024

**PROPRIETARY AND CONFIDENTIAL**

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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.

**FIRST ROBOTICS COMPETITION** **SOLIDWORKS** Modeling Solutions Partner

TITLE:  
**Inner Slice Pipe Vertical**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25332	

SCALE: 1:4 SHEET 1 OF 1

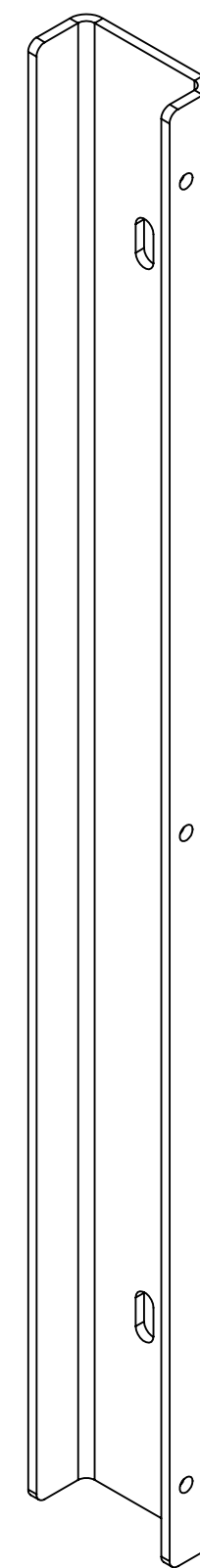
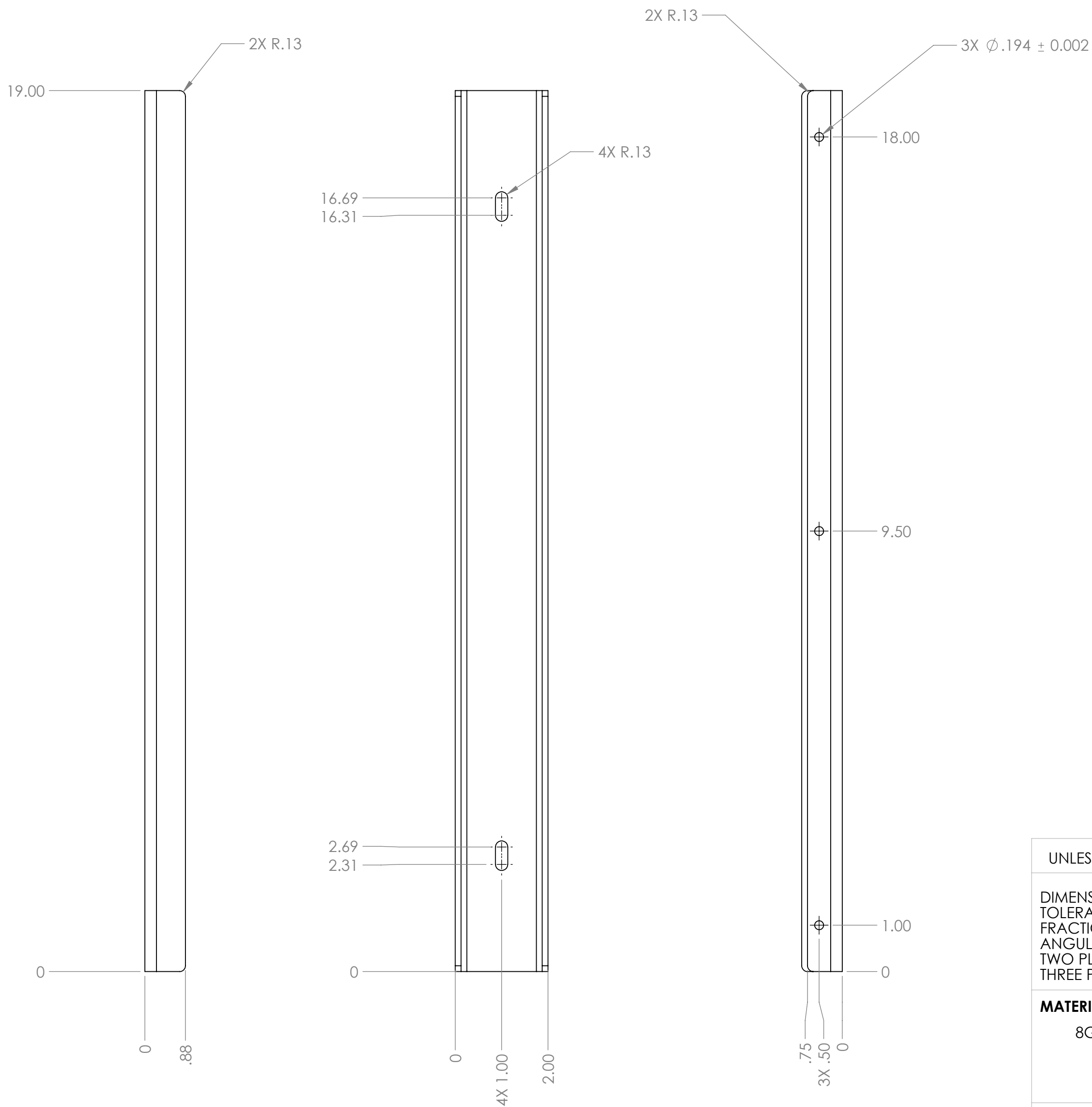
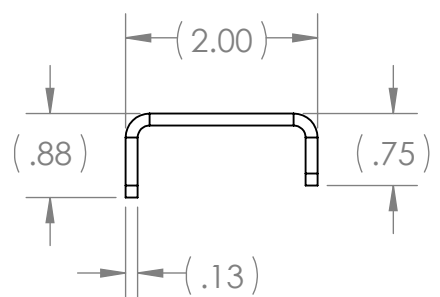


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UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ± 1/16  
 ANGULAR: MACH ± 1° BEND ± 1°  
 TWO PLACE DECIMAL ± .02  
 THREE PLACE DECIMAL ± .010

**MATERIAL/FINISH:**  
 8GA 5052 Aluminum

DO NOT SCALE DRAWING

BEND	NAME	DATE
DRAWN	NE	9/27/2024

**PROPRIETARY AND CONFIDENTIAL**  
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**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.



TITLE:  
**Inner Slice Pipe Backing**

SIZE	DWG. NO.	REV
<b>C</b>	GE-25333	

SCALE: 1:2 SHEET 1 OF 1

D

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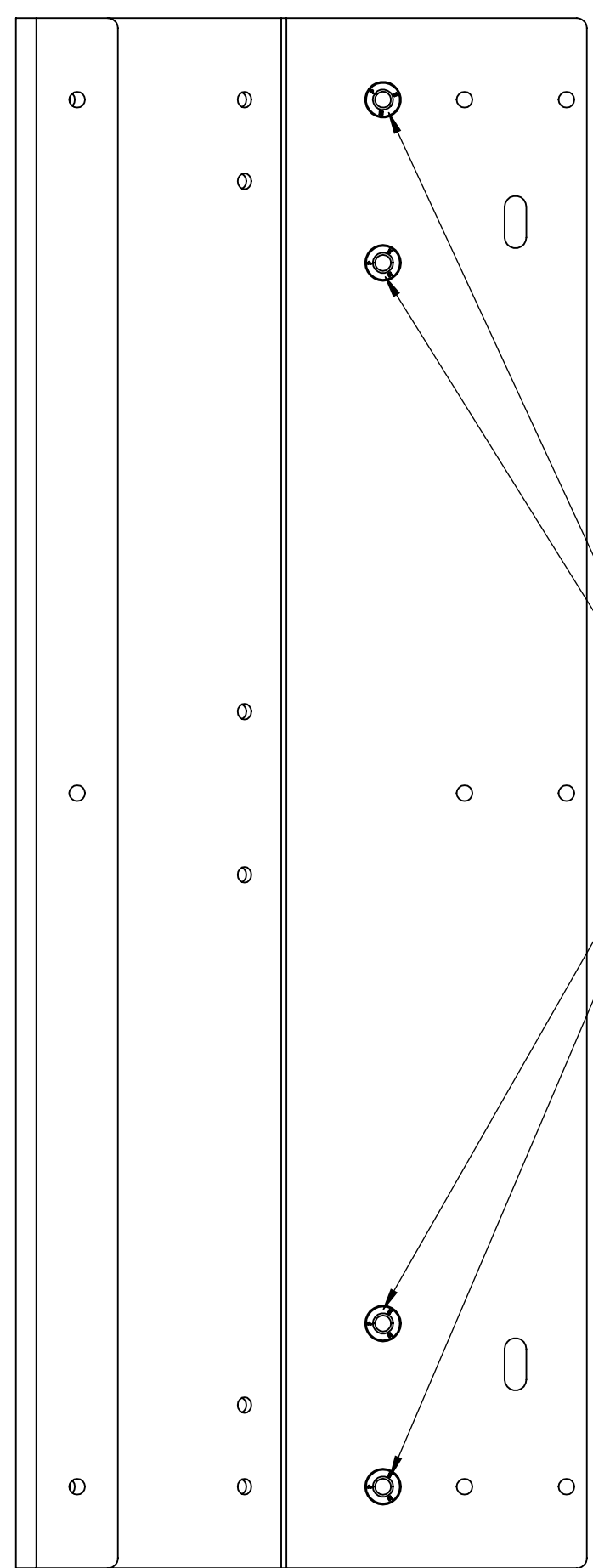
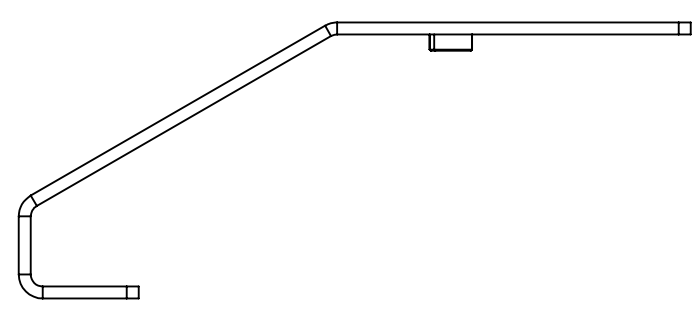
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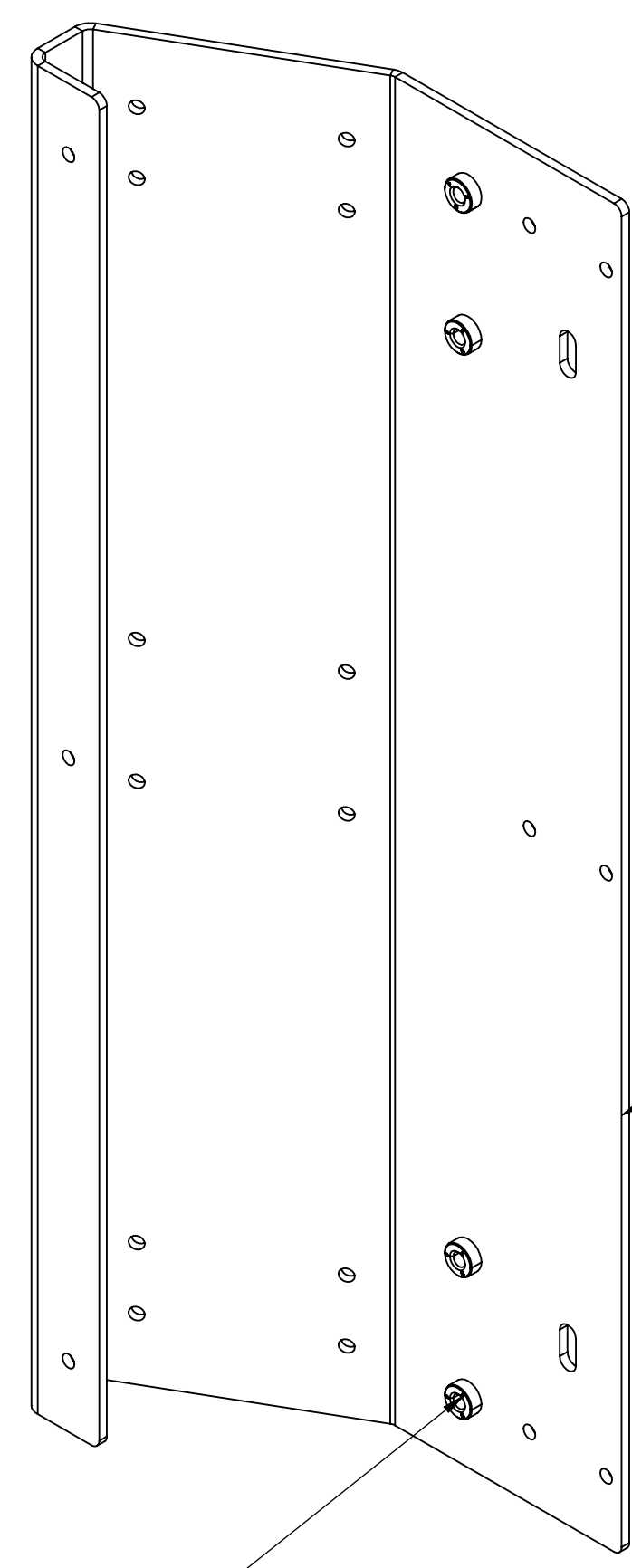
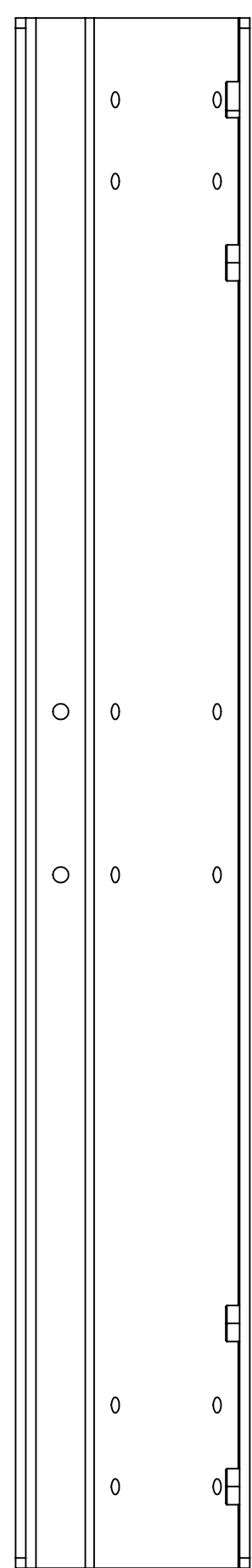
C

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4X INSTALL PEMS ON INTERIOR FACE



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25334-01	Inner Slice Pipe Vertical Outer Shell	1
2	pem_clinchnut_.25_20 _.054	1/4-20 self-clinching nut, .054 shank	4

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL  $\pm 1/16$   
 ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
 TWO PLACE DECIMAL  $\pm .01$   
 THREE PLACE DECIMAL  $\pm .005$

**MATERIAL/FINISH:**

DO NOT SCALE DRAWING

VEND NAME DATE  
 DRAWN NE 9/27/2024

**PROPRIETARY AND CONFIDENTIAL**

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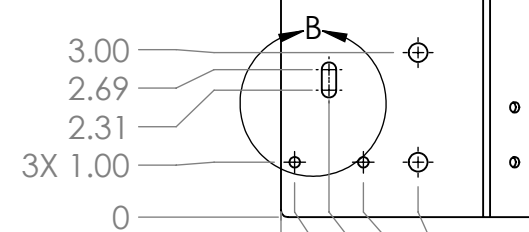
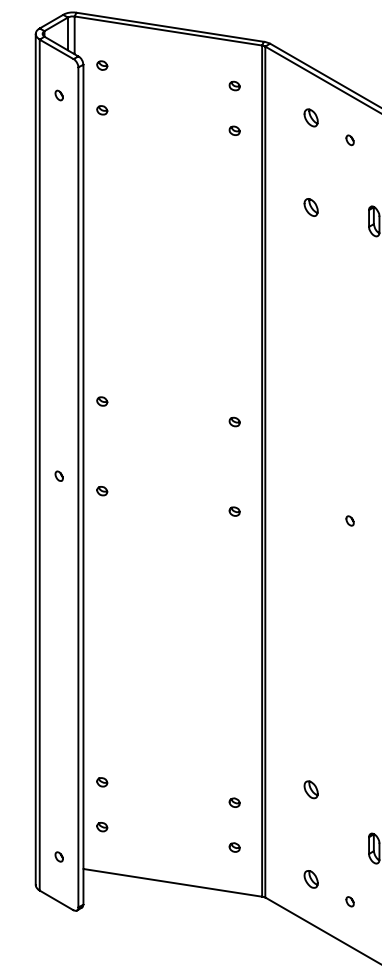
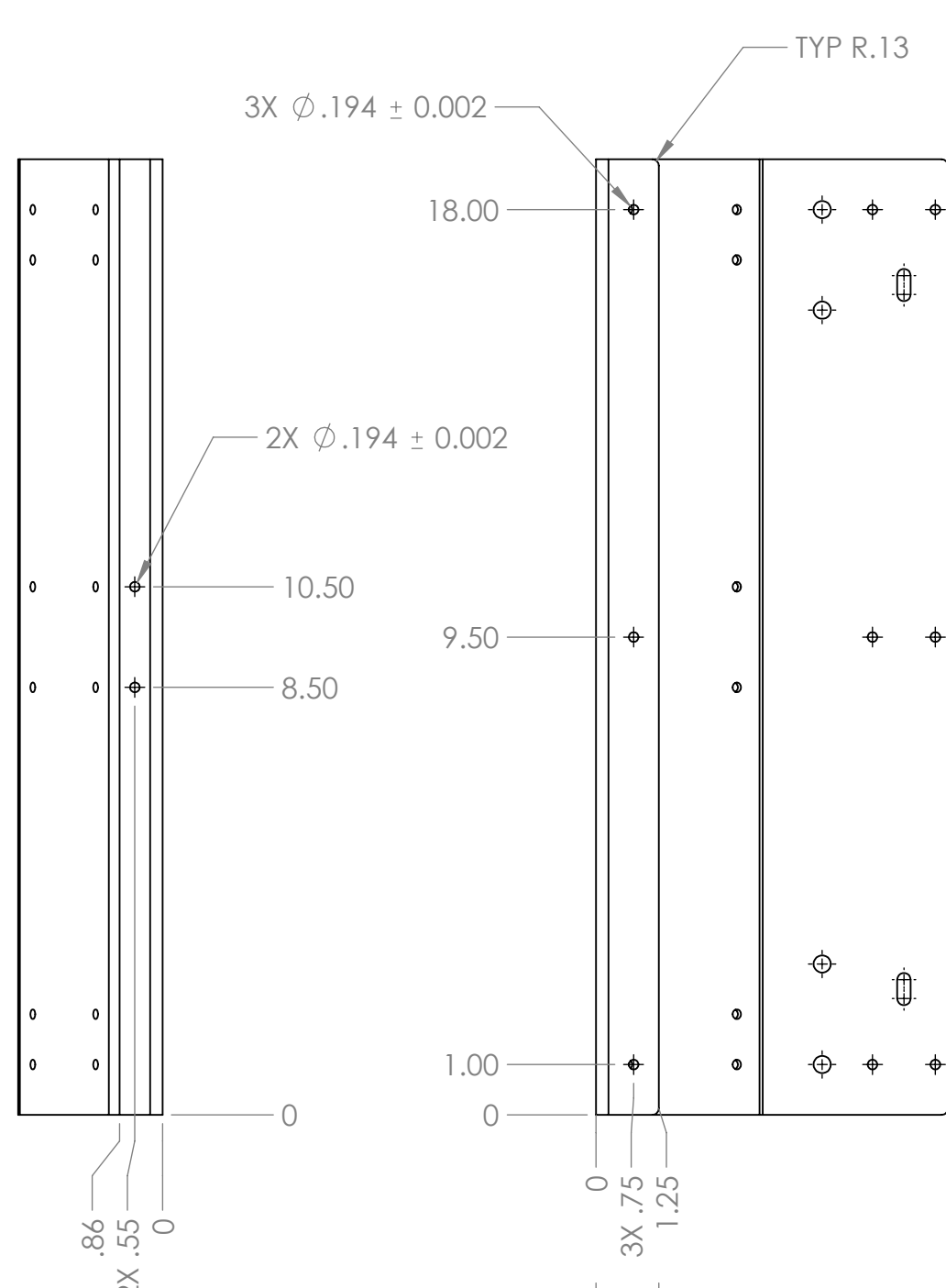
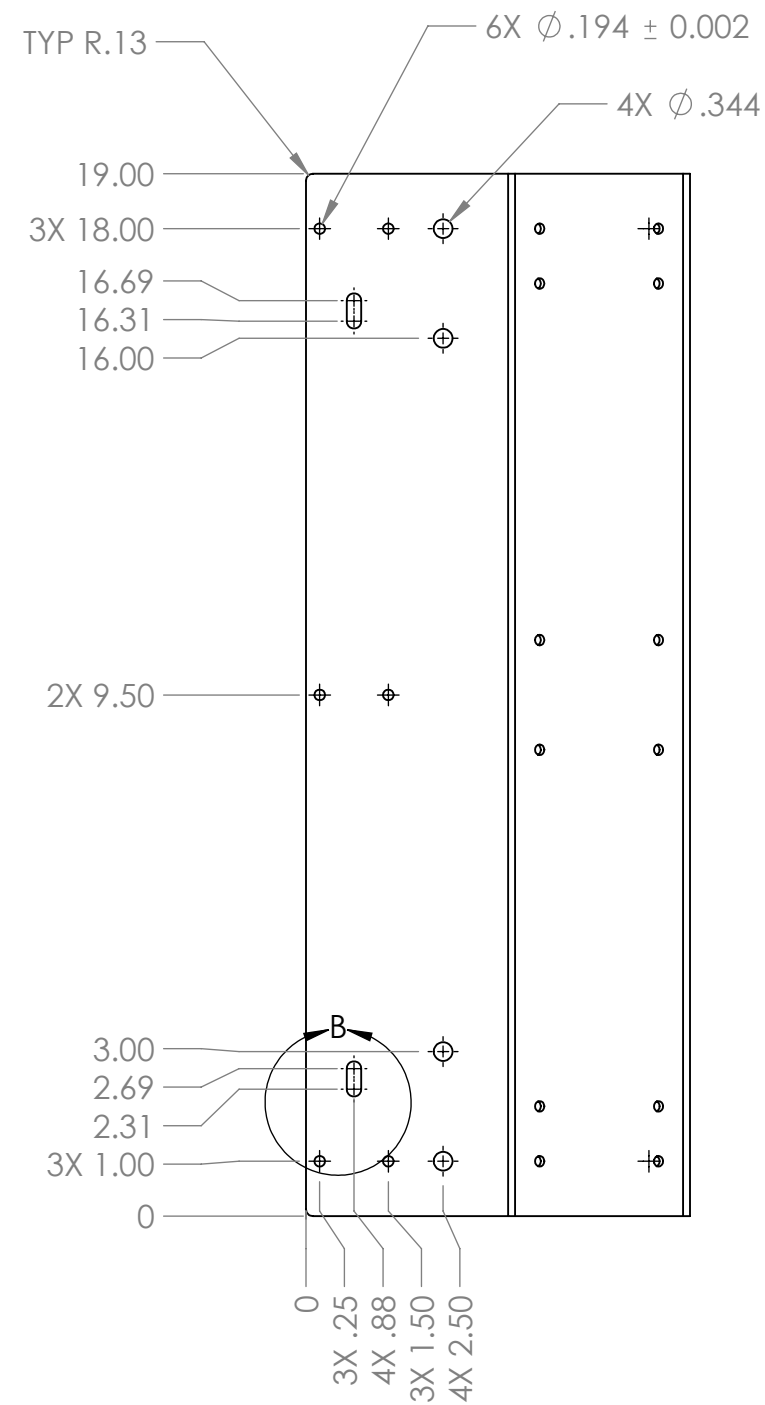
**COMMENTS:**  
 REMOVE ALL BURRS AND SHARP EDGES.

**FIRST ROBOTICS COMPETITION** **SOLIDWORKS** Modeling Solutions Partner

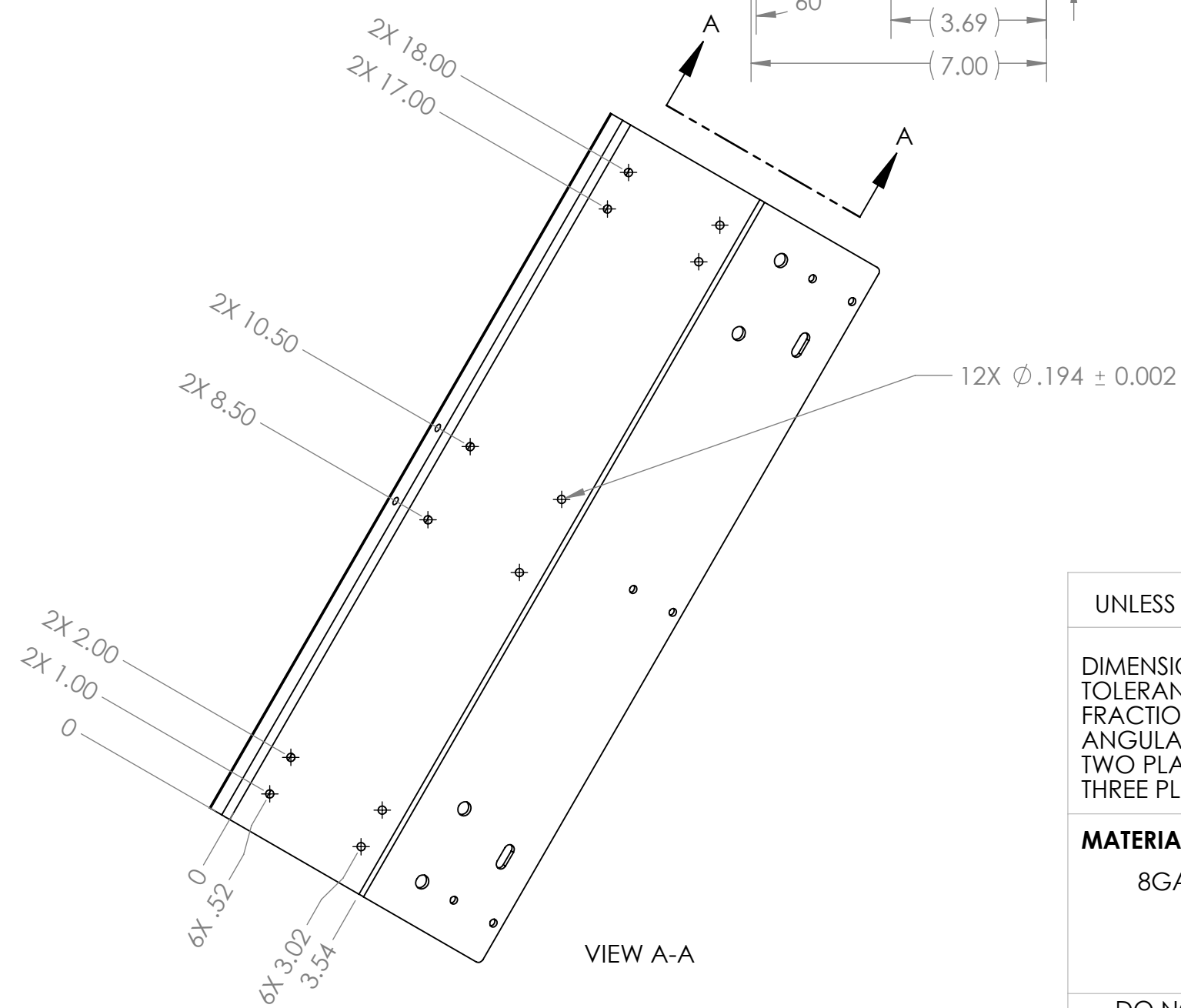
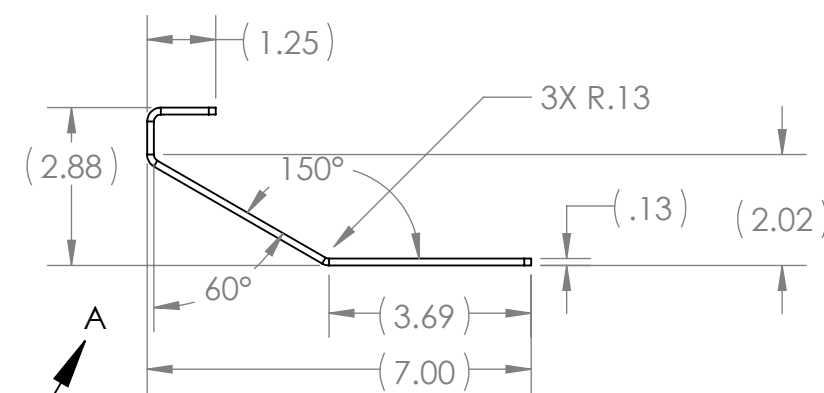
TITLE:  
**Inner Slice Pipe Vertical Outer Shell W PEMs**

SIZE	DWG. NO.	REV
<b>C</b>	<b>GE-25334</b>	

SCALE: 1:2 SHEET 1 OF 1





DETAIL B  
SCALE 4:7



VIEW A-A

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ± 1/16  
 ANGULAR: MACH ± 1° BEND ± 1°  
 TWO PLACE DECIMAL ± .02  
 THREE PLACE DECIMAL ± .010  
**MATERIAL/FINISH:**  
 8GA 5052 Aluminum  
 DO NOT SCALE DRAWING

BEND	NAME	DATE
DRAWN	NE	9/27/2024
<b>PROPRIETARY AND CONFIDENTIAL</b>		
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<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		

 		
TITLE: Inner Slice Pipe Vertical Outer Shell		
SIZE	DWG. NO.	REV
<b>C</b>	GE-25334-01	
SCALE: 2:7		SHEET 1 OF 1



4

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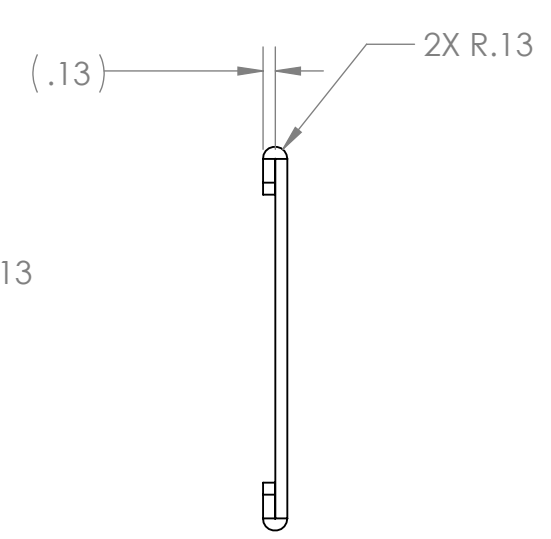
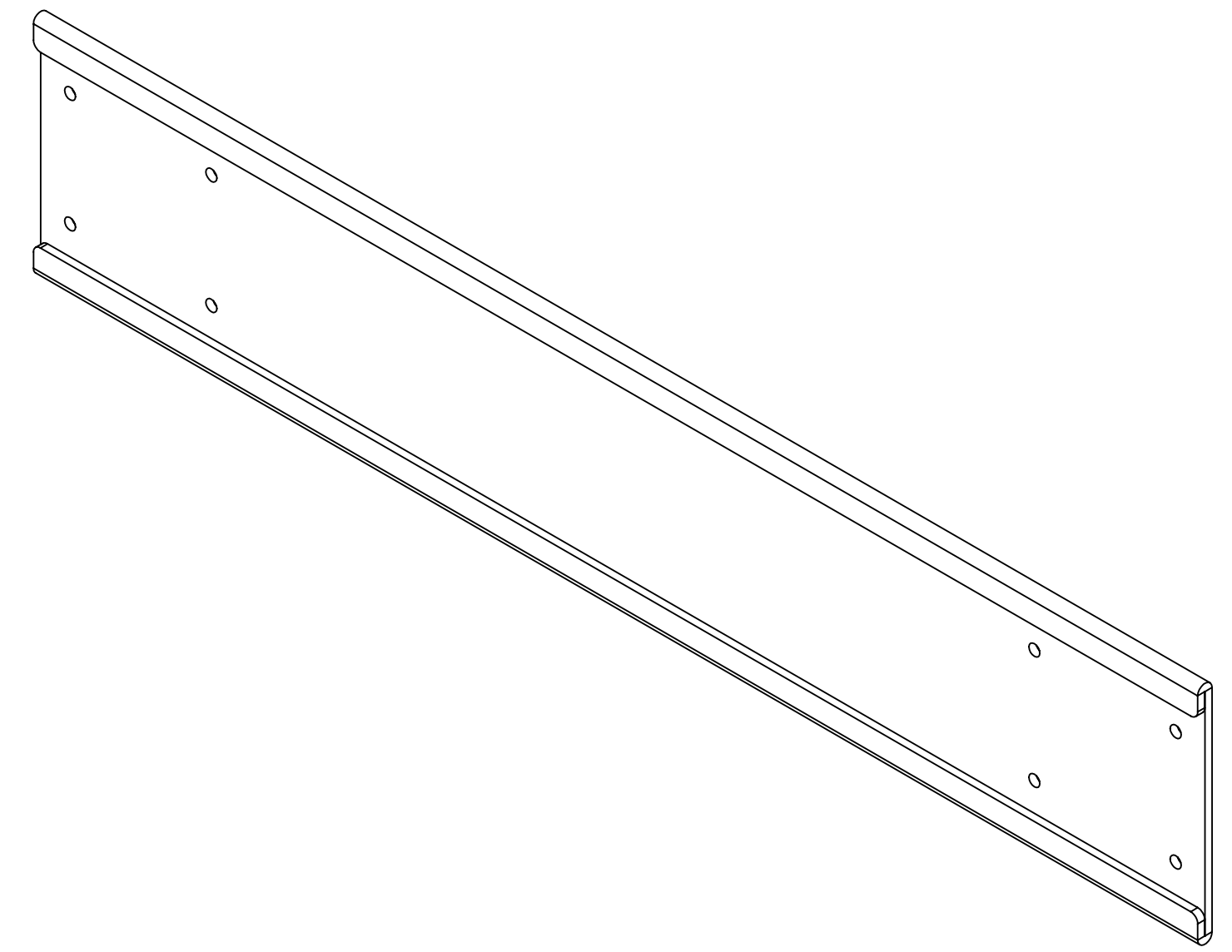
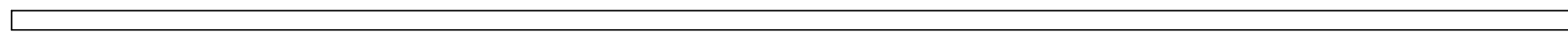
C


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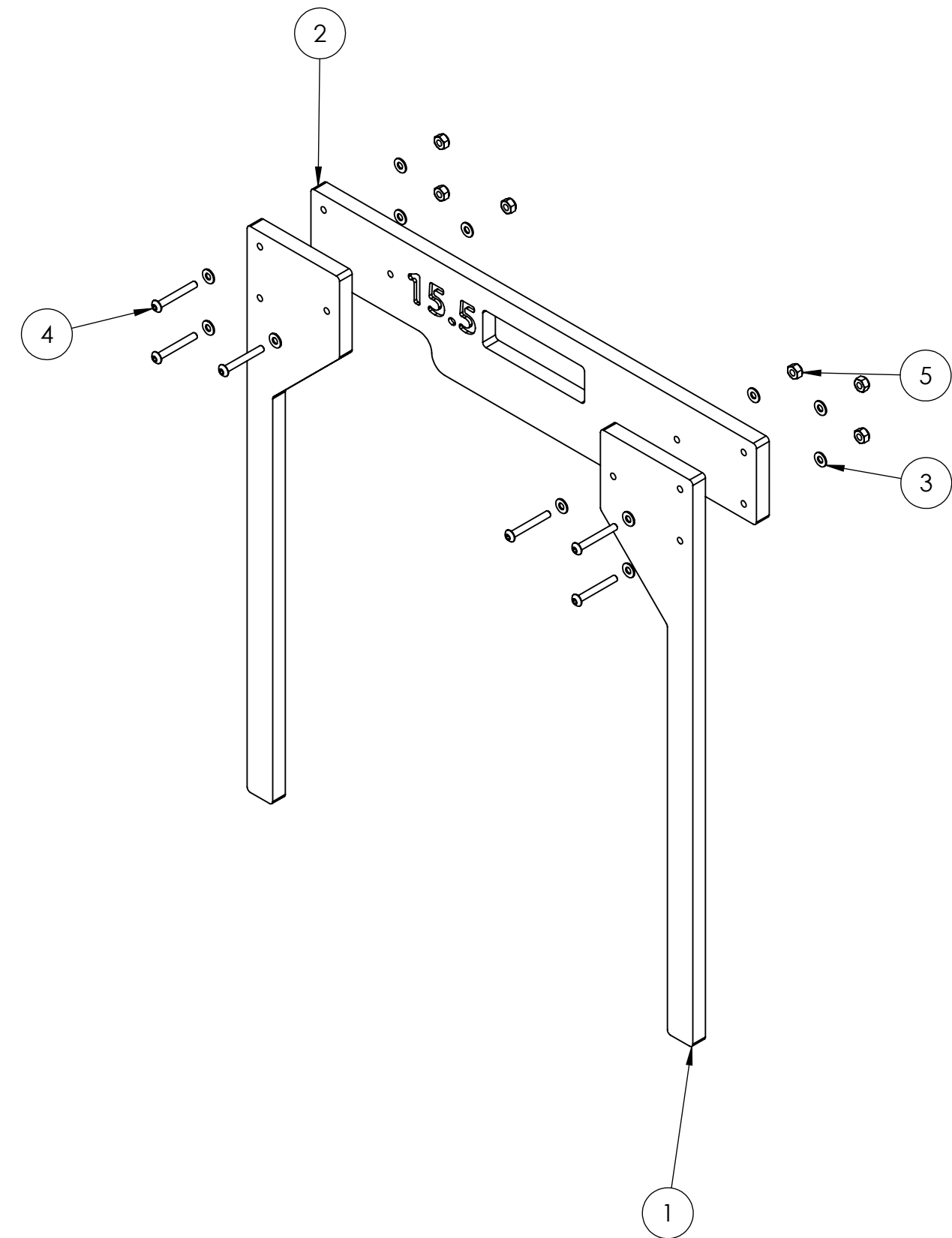
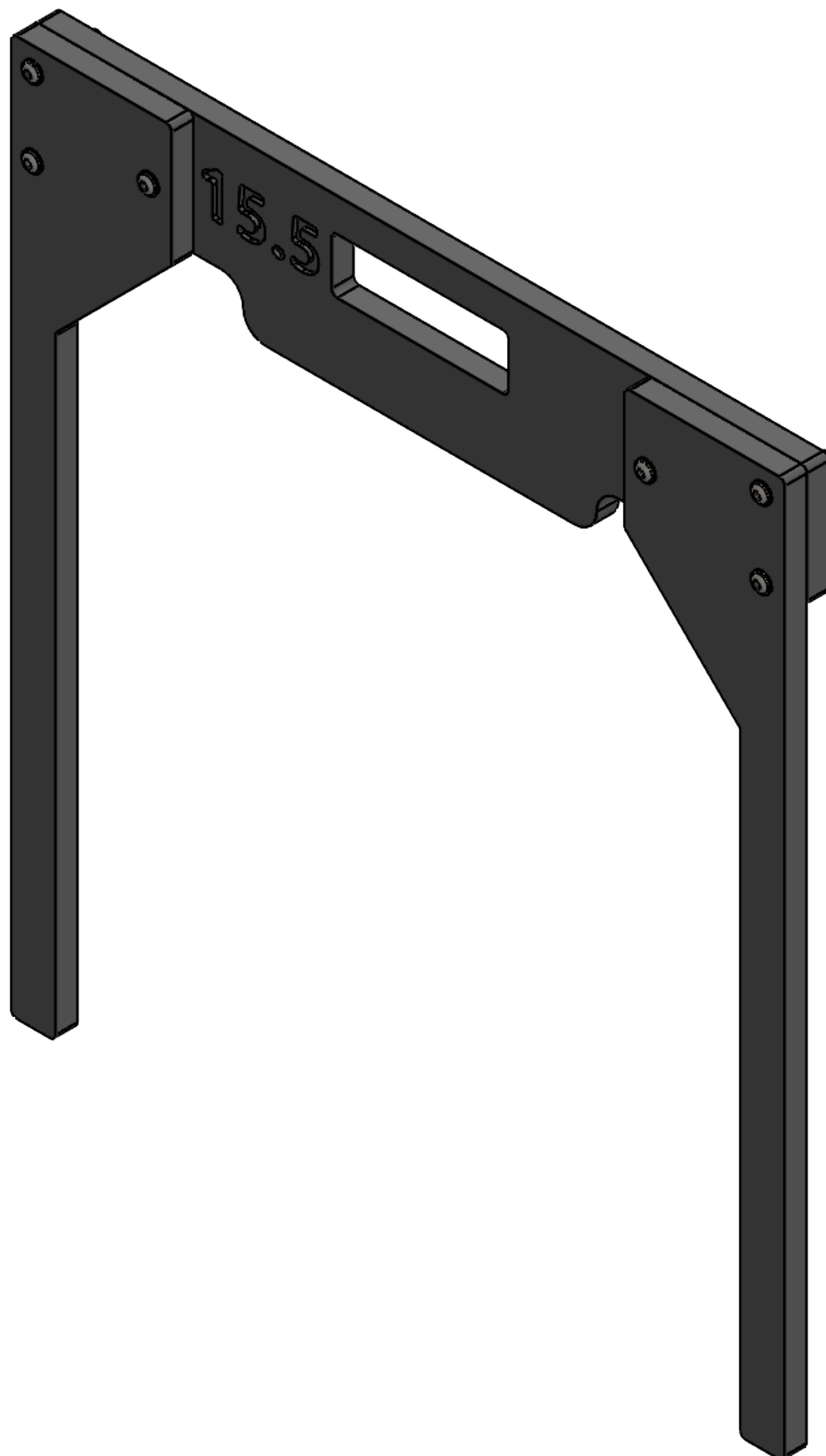
B

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A



UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .02$ THREE PLACE DECIMAL $\pm .010$  <b>MATERIAL/FINISH:</b> 8GA 5052 Aluminum  DO NOT SCALE DRAWING	BEND	NAME	DATE			
	DRAWN	NE	9/30/2024			
	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.			TITLE:	<b>Inner Slice Back Support</b>	
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			SIZE		DWG. NO.
			<b>C</b>	GE-25336		
			SCALE: 1:2	SHEET 1 OF 1		



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25402	Ball Inflation Jig Side	2
2	GE-25403	Ball Inflation Jig 15.5" Handle	1
3	washer_flat_10	Flat Washer for #10 Screw	12
4	Button_hex_10_32_1.5	Button Head Socket Screw, #10-32, 1.5" long	6
5	nylock_10_32	Low-Strength Steel Nylon-Insert Locknut, Zinc-Plated, 10-32 Thread Size	6

UNLESS OTHERWISE SPECIFIED:		VEND	NAME	DATE
DIMENSIONS ARE IN INCHES		DRAWN	BB	7/23/2024
TOLERANCES:		<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.		
FRACTIONAL ±1/16				
ANGULAR: MACH ±1° BEND ±1°				
TWO PLACE DECIMAL ±.01				
THREE PLACE DECIMAL ±.005		<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		
<b>MATERIAL/FINISH:</b>		<b>TITLE:</b> <h1>15.5" Ball Inflation Jig</h1>		
DO NOT SCALE DRAWING		SIZE	DWG. NO.	REV
		<b>C</b>	GE-25400	
		SCALE: 1:4		SHEET 1 OF 1



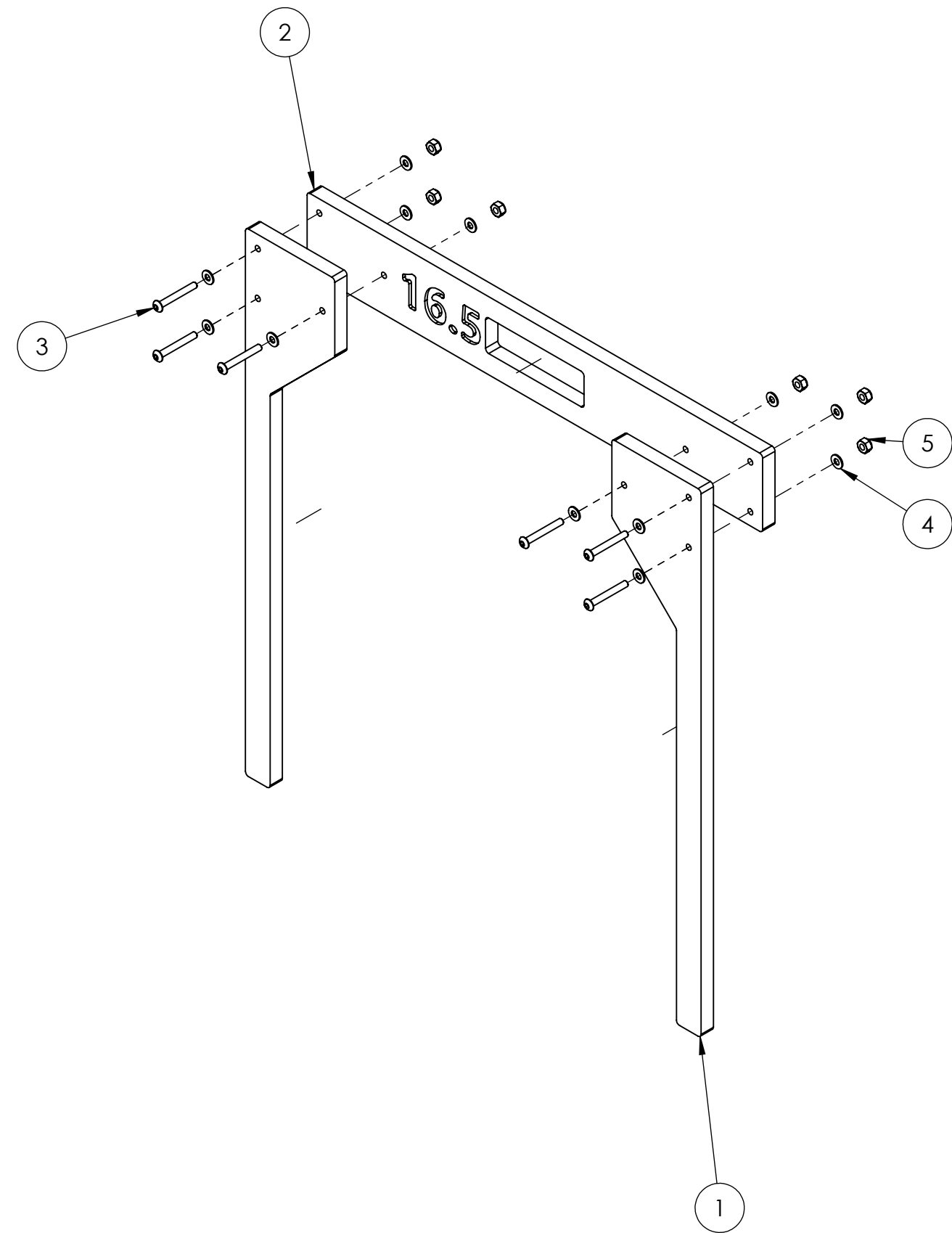
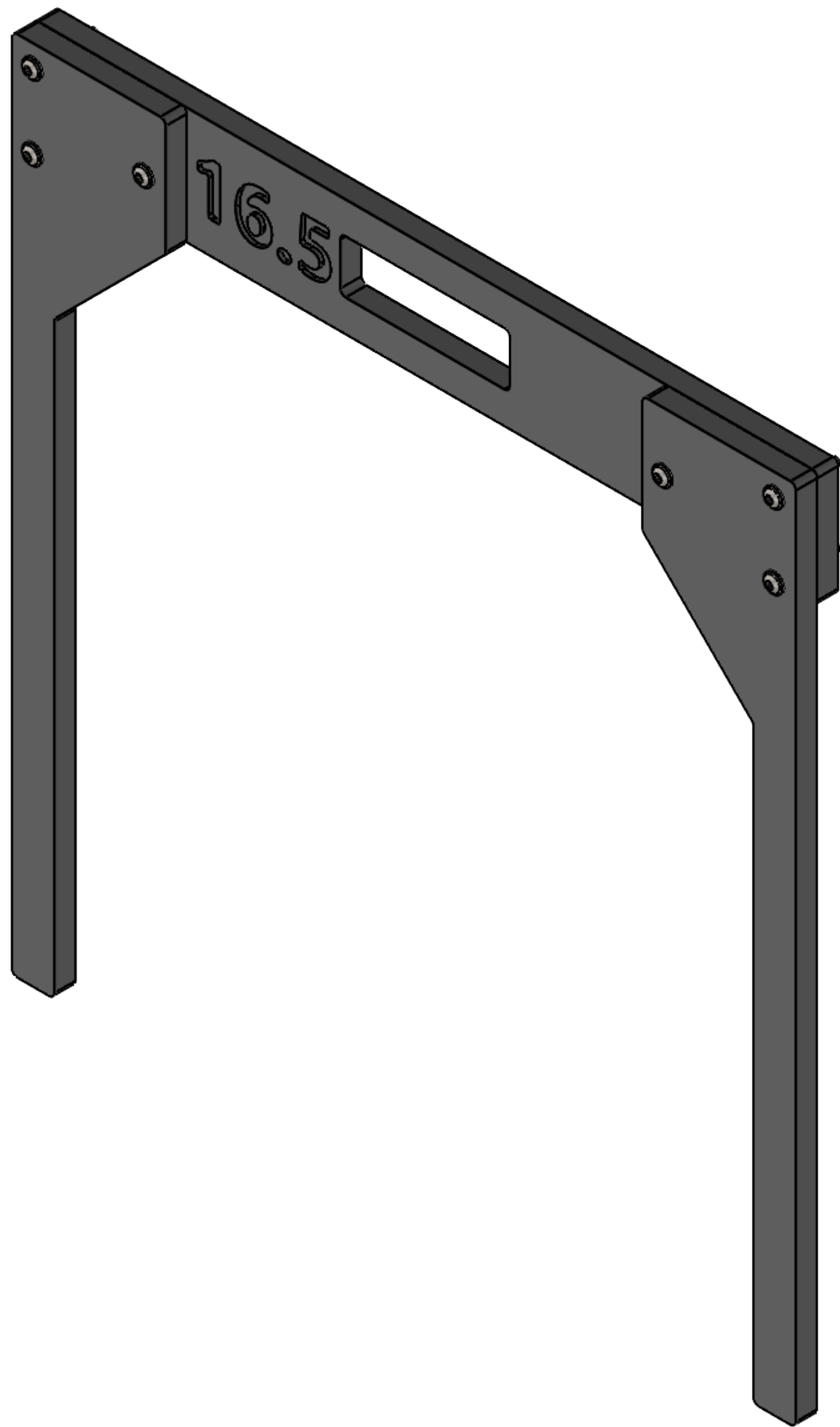


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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25402	Ball Inflation Jig Side	2
2	GE-25404	Ball Inflation Jig 16.5" Handle	1
3	Button_hex_10_32_1.5	Button Head Socket Screw, #10-32, 1.5" long	6
4	washer_flat_10	Flat Washer for #10 Screw	12
5	nylock_10_32	Low-Strength Steel Nylon-Insert Locknut, Zinc-Plated, 10-32 Thread Size	6

UNLESS OTHERWISE SPECIFIED:		VEND	NAME	DATE
DIMENSIONS ARE IN INCHES		DRAWN	BB	7/23/2024
TOLERANCES:		<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.		
FRACTIONAL ±1/16				
ANGULAR: MACH ±1° BEND ±1°				
TWO PLACE DECIMAL ±.01				
THREE PLACE DECIMAL ±.005		<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		
<b>MATERIAL/FINISH:</b>		<b>3S SOLIDWORKS</b> Modeling Solutions Partner		
DO NOT SCALE DRAWING		<b>FIRST ROBOTICS COMPETITION</b> TITLE: <h1>16.5" Ball Inflation Jig</h1>		
		SIZE	DWG. NO.	REV
		<b>C</b>	GE-25401	
		SCALE: 1:4		SHEET 1 OF 1

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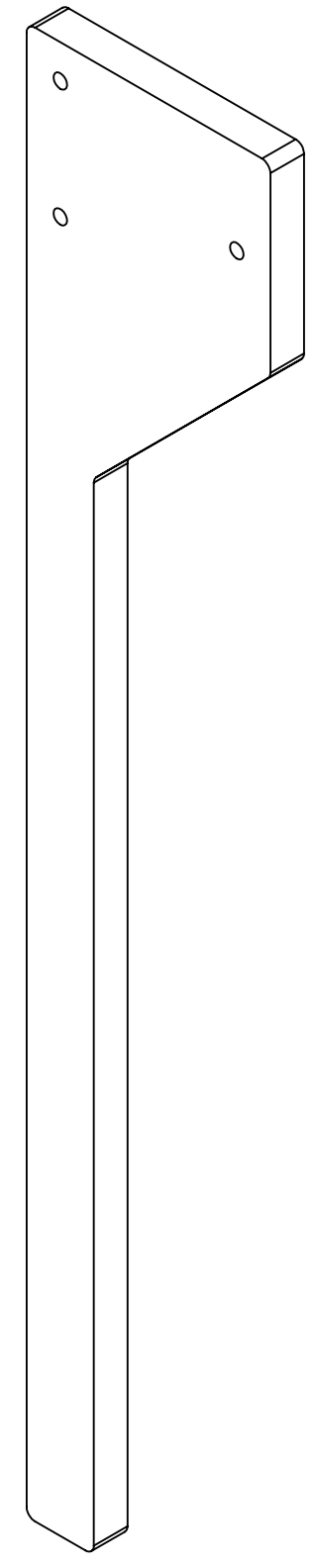
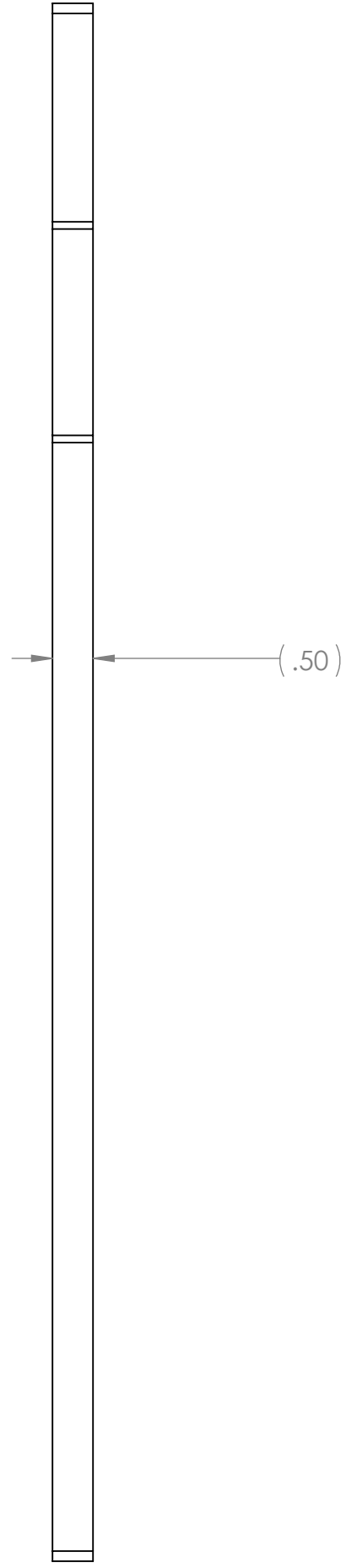
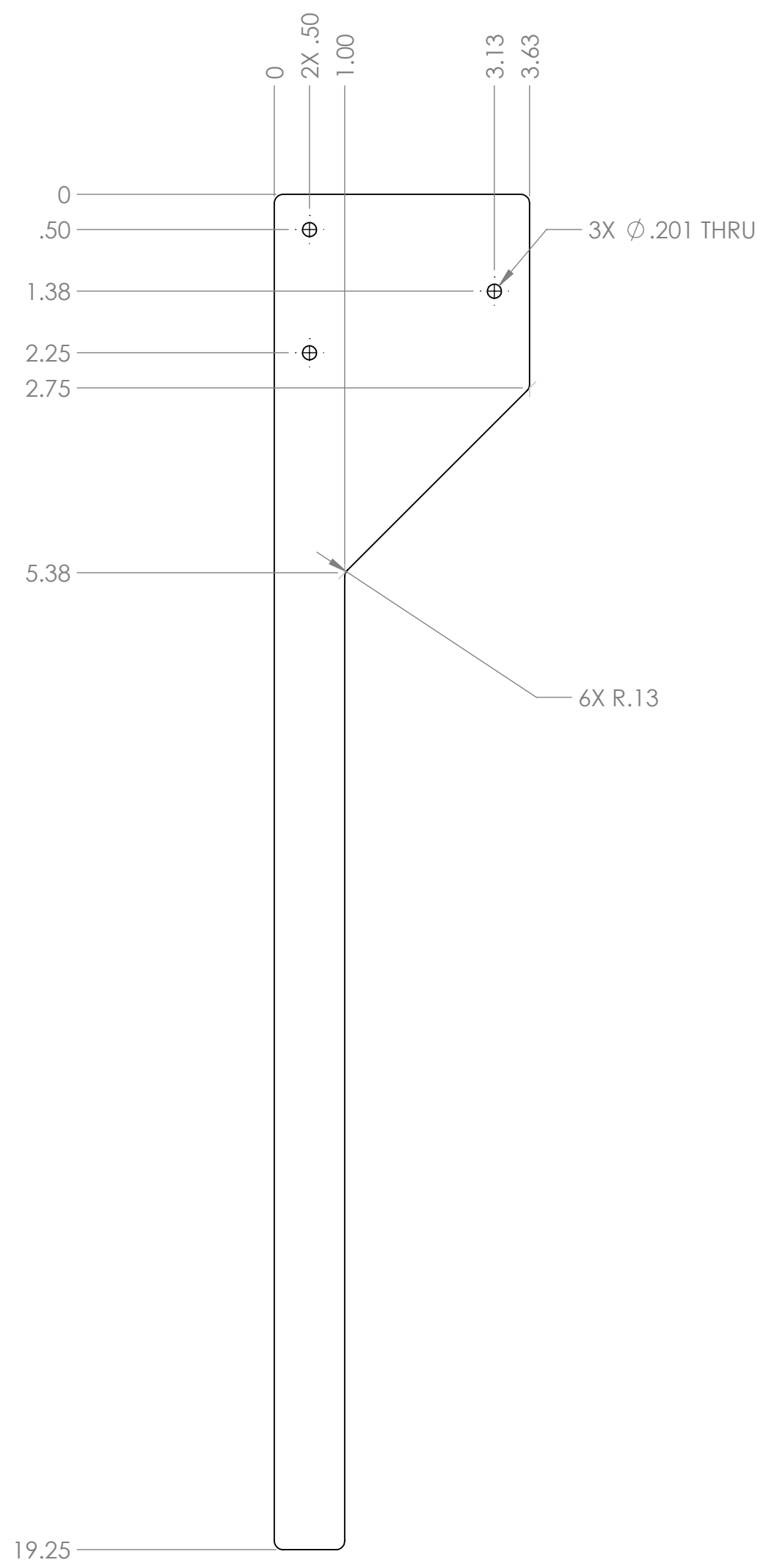
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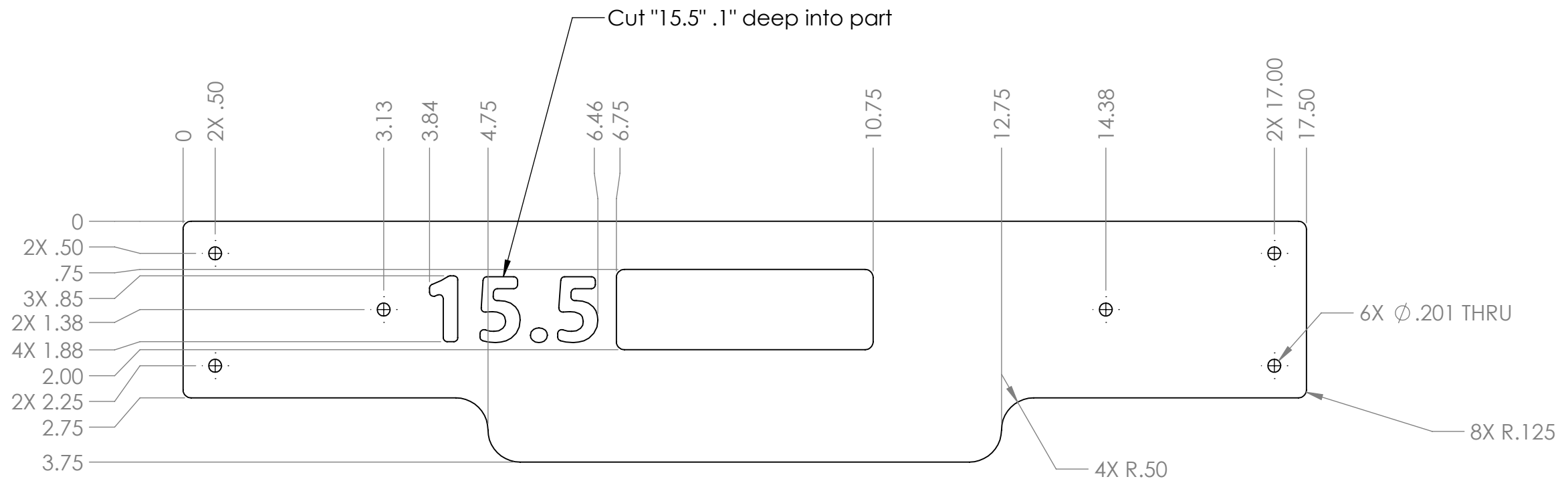
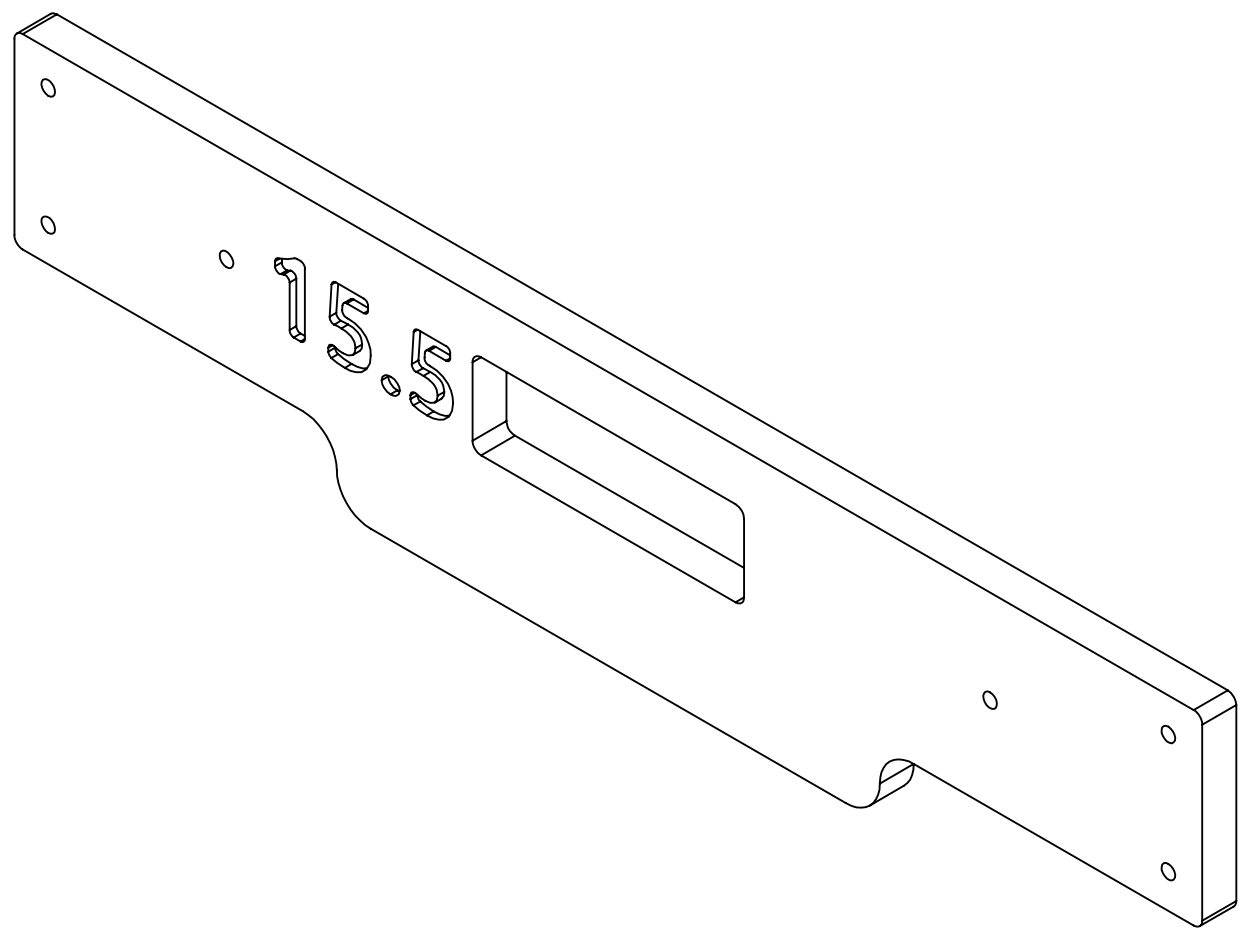
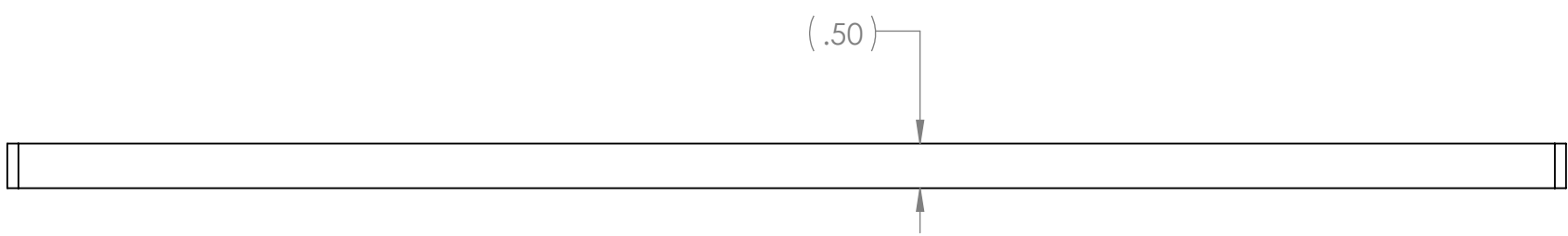
UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .01 THREE PLACE DECIMAL ± .005  <b>MATERIAL/FINISH:</b> 1/2" Black HDPE, Orange Peel Texture  DO NOT SCALE DRAWING	VEND	NAME	DATE	
	DRAWN	BB	7/22/2024	
	<b>PROPRIETARY AND CONFIDENTIAL</b>			TITLE:
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			Ball Inflation Jig Side
	COMMENTS:	REMOVE ALL BURRS AND SHARP EDGES.		SIZE
				DWG. NO.
				REV
				<b>C</b> GE-25402
				SCALE: 1:4
				SHEET 1 OF 1



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UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .005$  <b>MATERIAL/FINISH:</b> 1/2" Black HDPE, Orange Peel Texture  DO NOT SCALE DRAWING	VEND	NAME	DATE	 
	DRAWN	BB	7/22/2024	
	<b>PROPRIETARY AND CONFIDENTIAL</b>			TITLE:
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.			Ball Inflation Jig 15.5" Handle
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			SIZE DWG. NO. REV
				<b>C</b> GE-25403
				SCALE: 1:2 SHEET 1 OF 1

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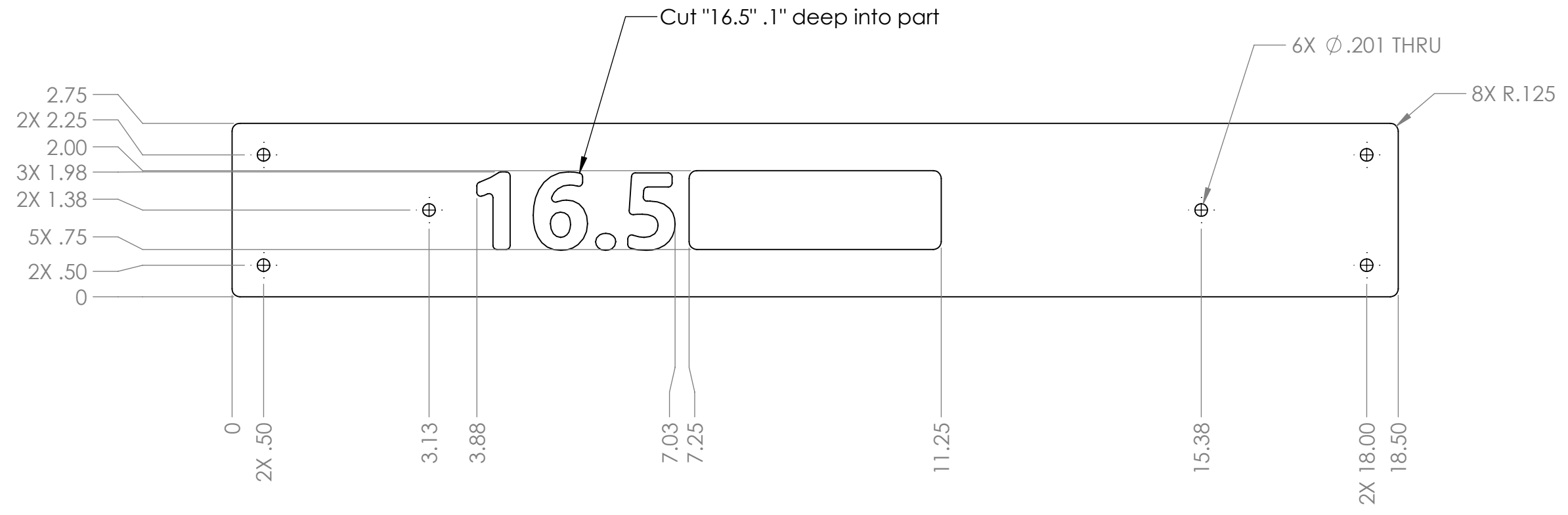
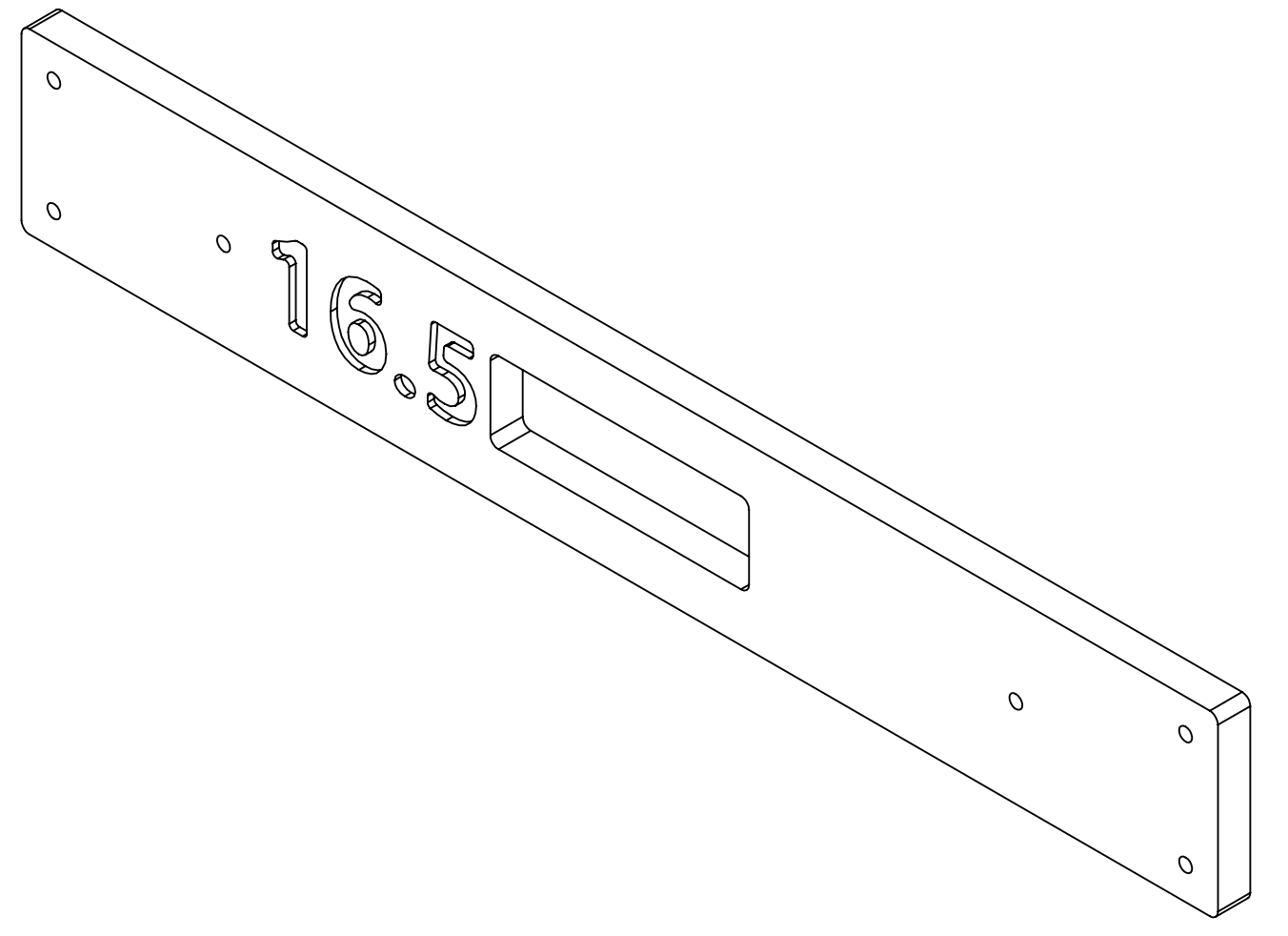
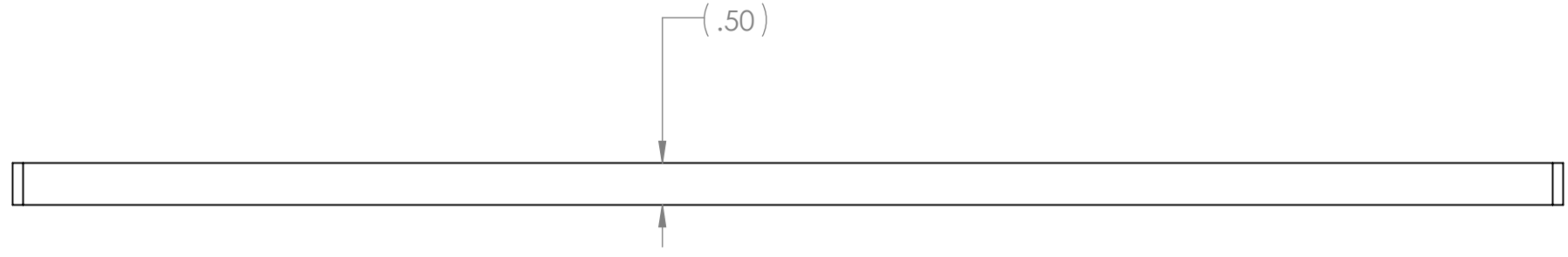
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UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .005$  <b>MATERIAL/FINISH:</b> 1/2" Black HDPE, Orange Peel Texture  DO NOT SCALE DRAWING	VEND	NAME	DATE	 	
	DRAWN	BB	7/22/2024		
	<b>PROPRIETARY AND CONFIDENTIAL</b>			TITLE: <b>Ball Inflation Jig 16.5" Handle</b>	
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.				
	<b>COMMENTS:</b>		SIZE	DWG. NO.	REV
	REMOVE ALL BURRS AND SHARP EDGES.		<b>C</b>	GE-25404	
			SCALE: 1:2	SHEET 1 OF 1	

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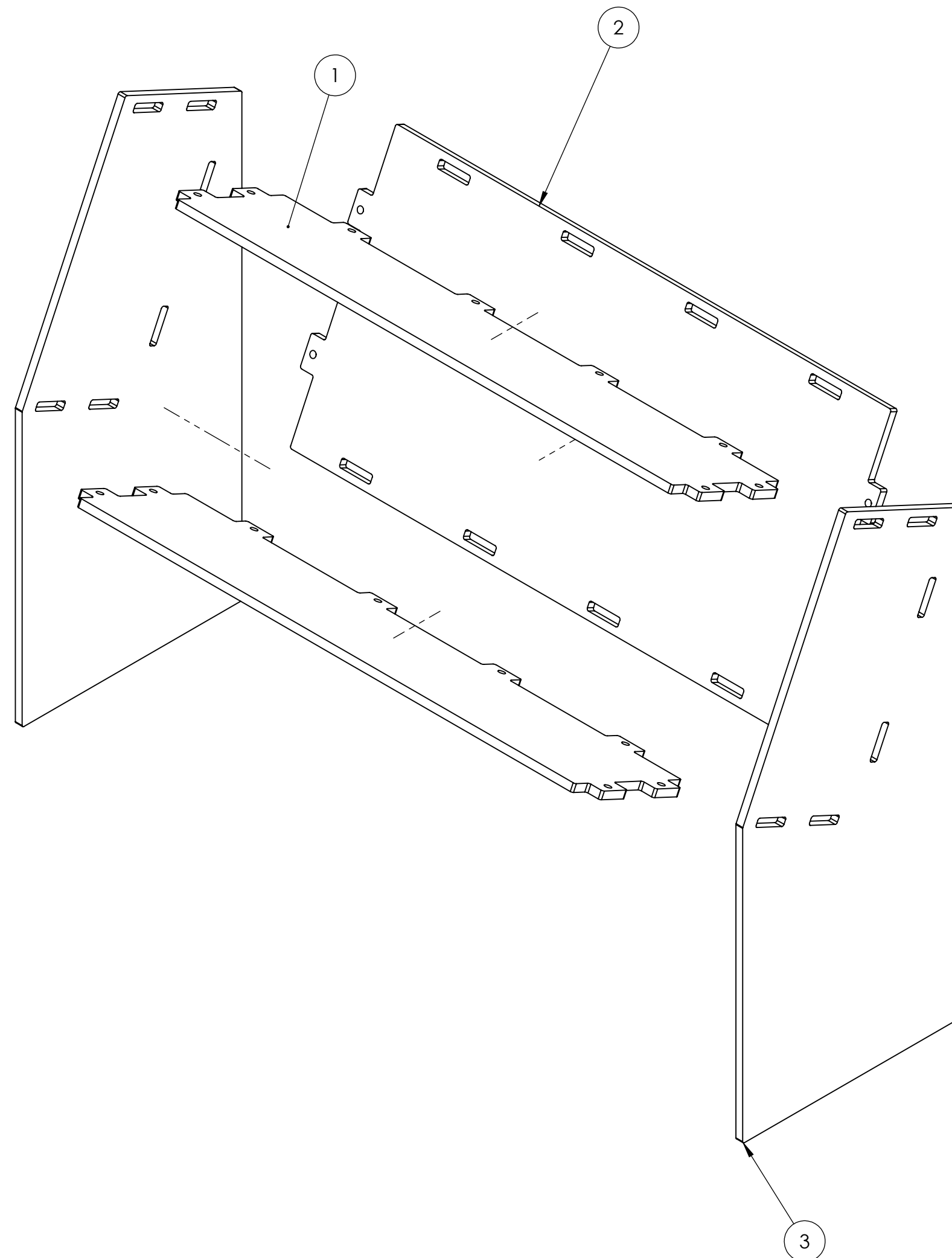
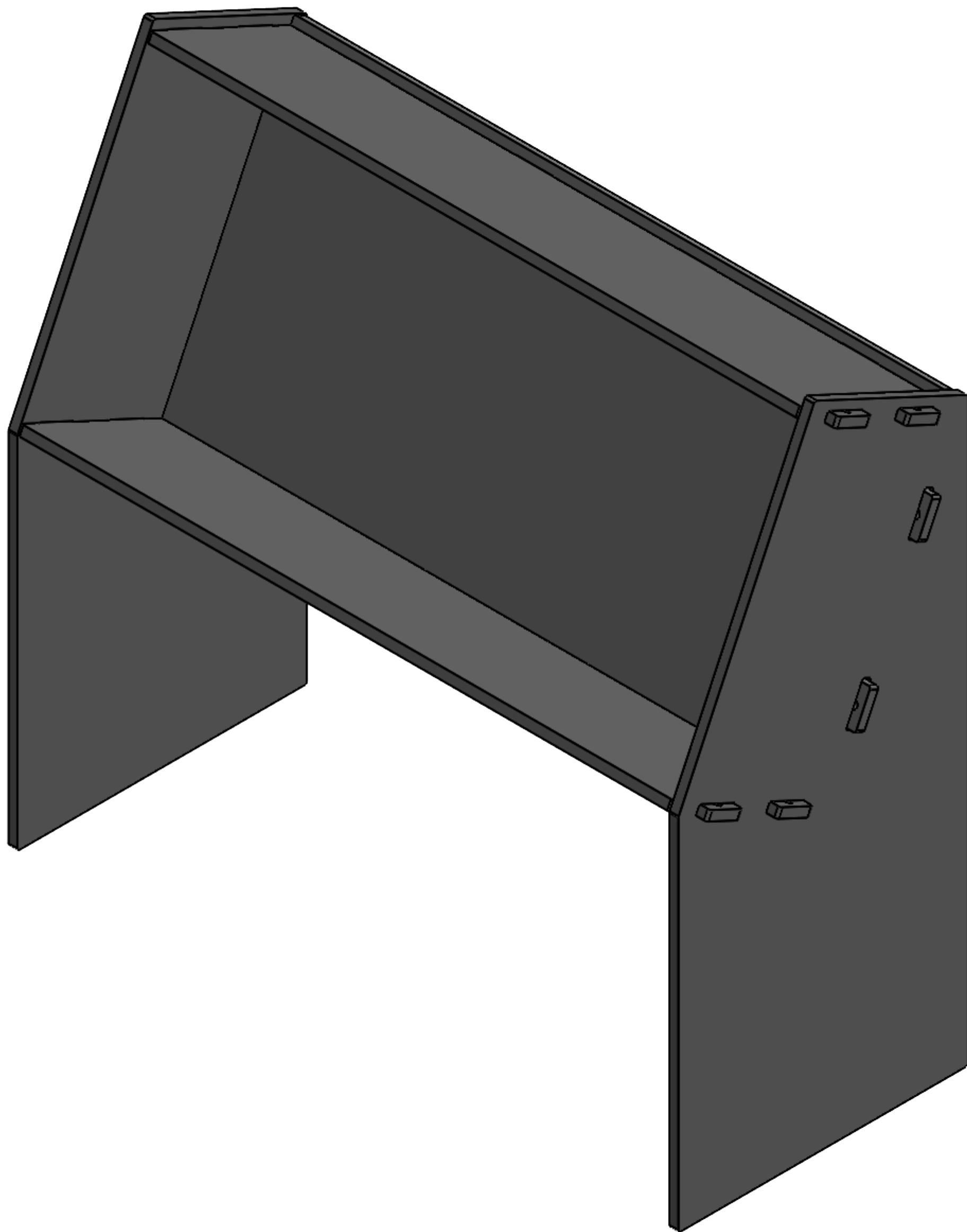
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Assemble with 120 lb. cable ties



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GE-25411	Coral Holder Top & Bottom Panel	2
2	GE-25412	Coral Holder Back Panel	1
3	GE-25413	Coral Holder Side Panel	2

UNLESS OTHERWISE SPECIFIED:		VEND	NAME	DATE	 
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .005$		DRAWN	BB	7/23/2024	
<b>MATERIAL/FINISH:</b>  DO NOT SCALE DRAWING		<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			<b>TITLE:</b> <h1>Coral Holder</h1>
		<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			SIZE DWG. NO. REV <b>C</b> GE-25410
		SCALE: 1:12			SHEET 1 OF 1

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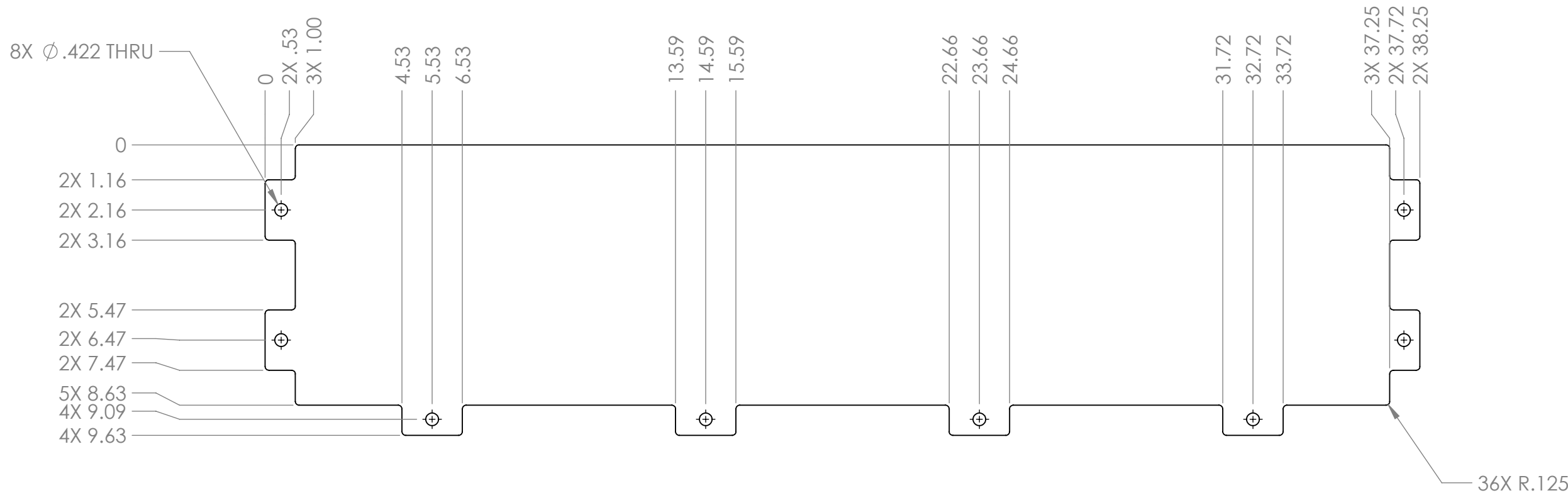
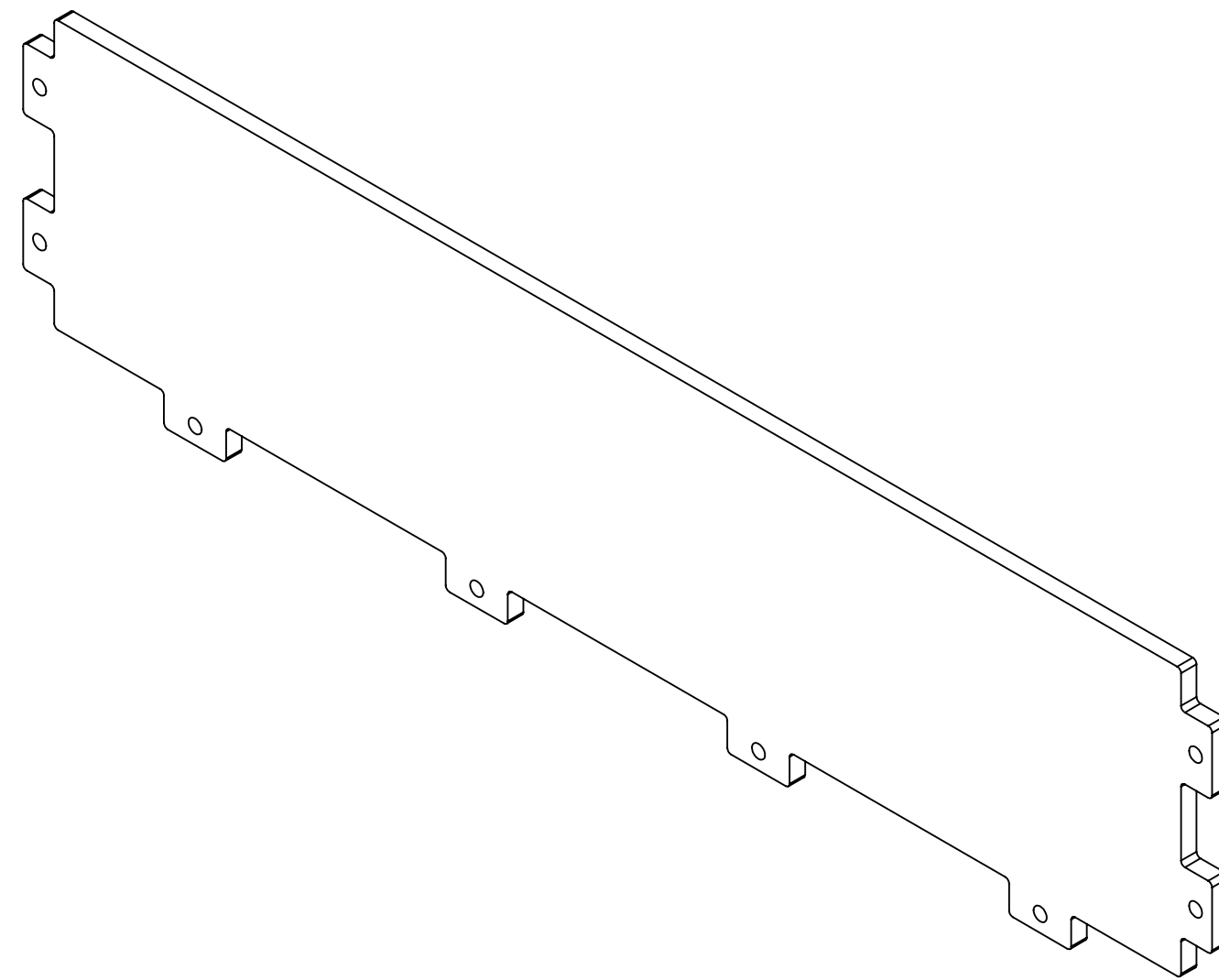
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UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .005$  <b>MATERIAL/FINISH:</b> 1/2" Black HDPE, Orange Peel Texture  DO NOT SCALE DRAWING	VEND	NAME	DATE	 
	DRAWN	BB	7/22/2024	
	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.			TITLE: Coral Holder Top & Bottom Panel
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			SIZE: C DWG. NO.: GE-25411 REV:
SCALE: 1:4		SHEET 1 OF 1		

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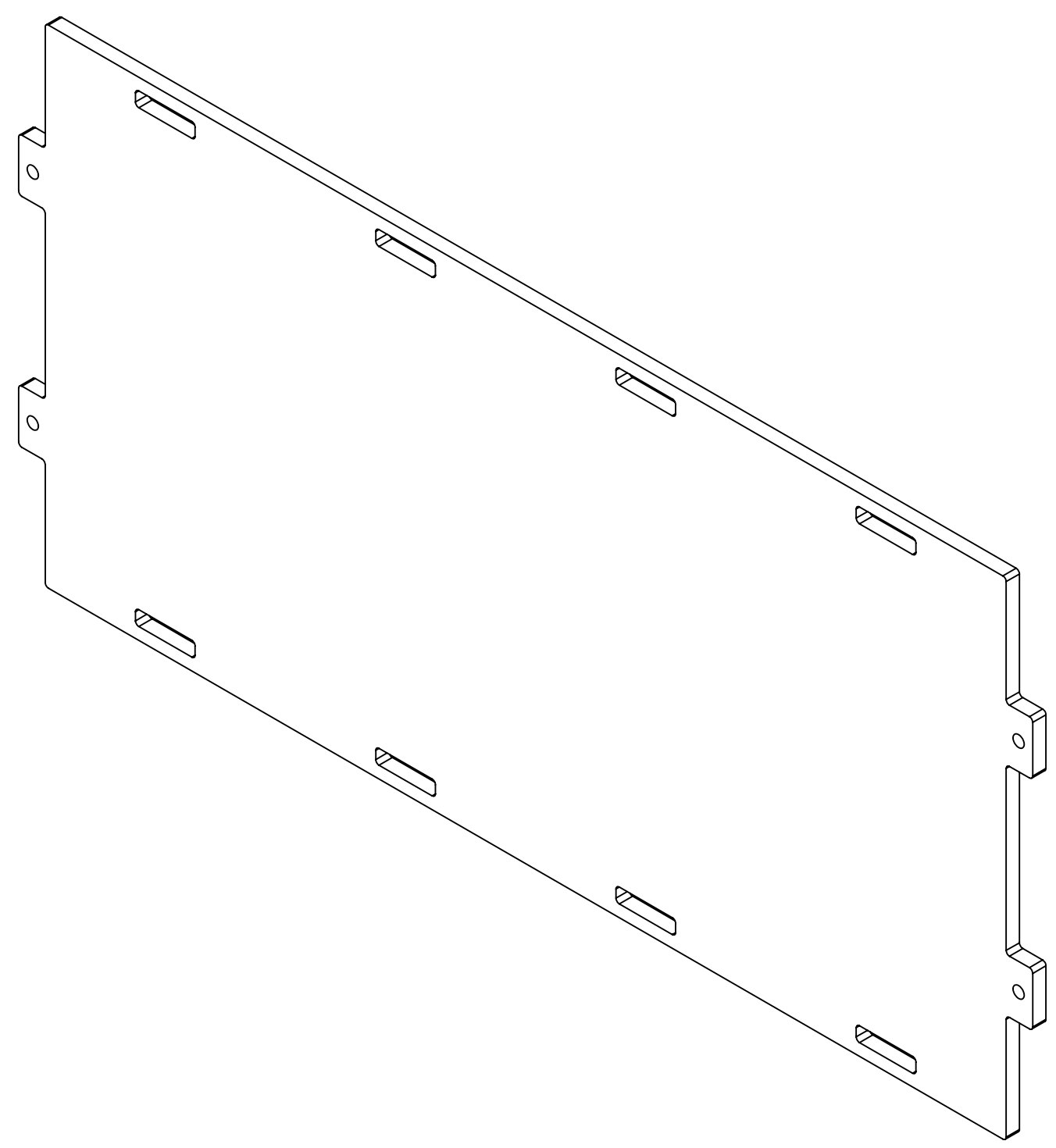
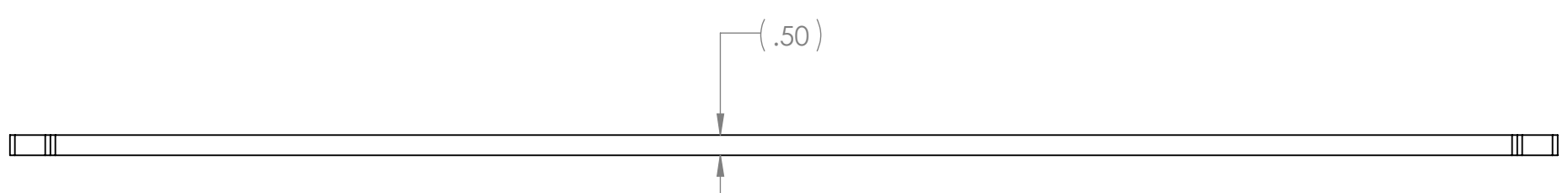
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UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 FRACTIONAL ± 1/16  
 ANGULAR: MACH ± 1° BEND ± 1°  
 TWO PLACE DECIMAL ± .01  
 THREE PLACE DECIMAL ± .005  
**MATERIAL/FINISH:**  
 1/2" Black HDPE, Orange Peel Texture  
 DO NOT SCALE DRAWING

VEND	NAME	DATE
DRAWN	BB	7/22/2024
<b>PROPRIETARY AND CONFIDENTIAL</b>		
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.		
<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		

TITLE: <b>Coral Holder Back Panel</b>	
SIZE <b>C</b>	DWG. NO. <b>GE-25412</b>
SCALE: 1:4	REV SHEET 1 OF 1

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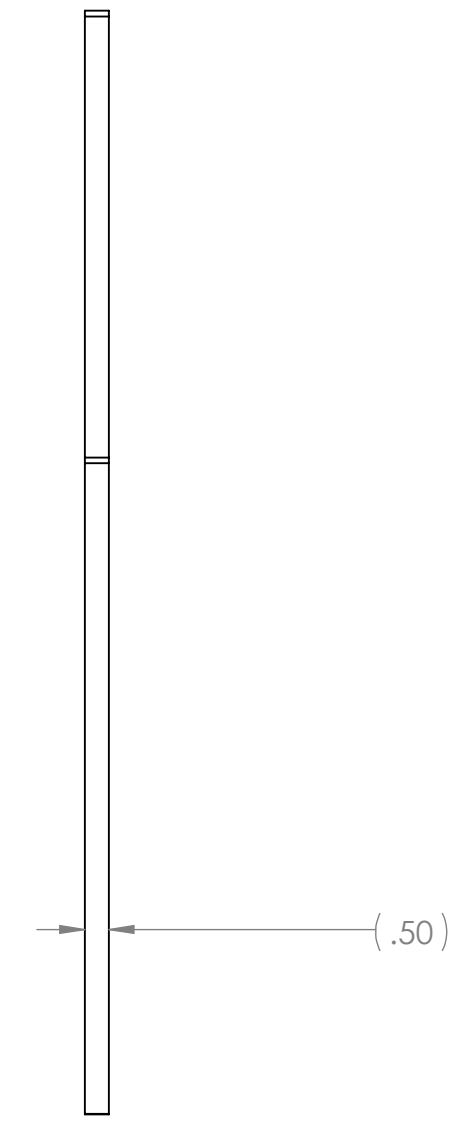
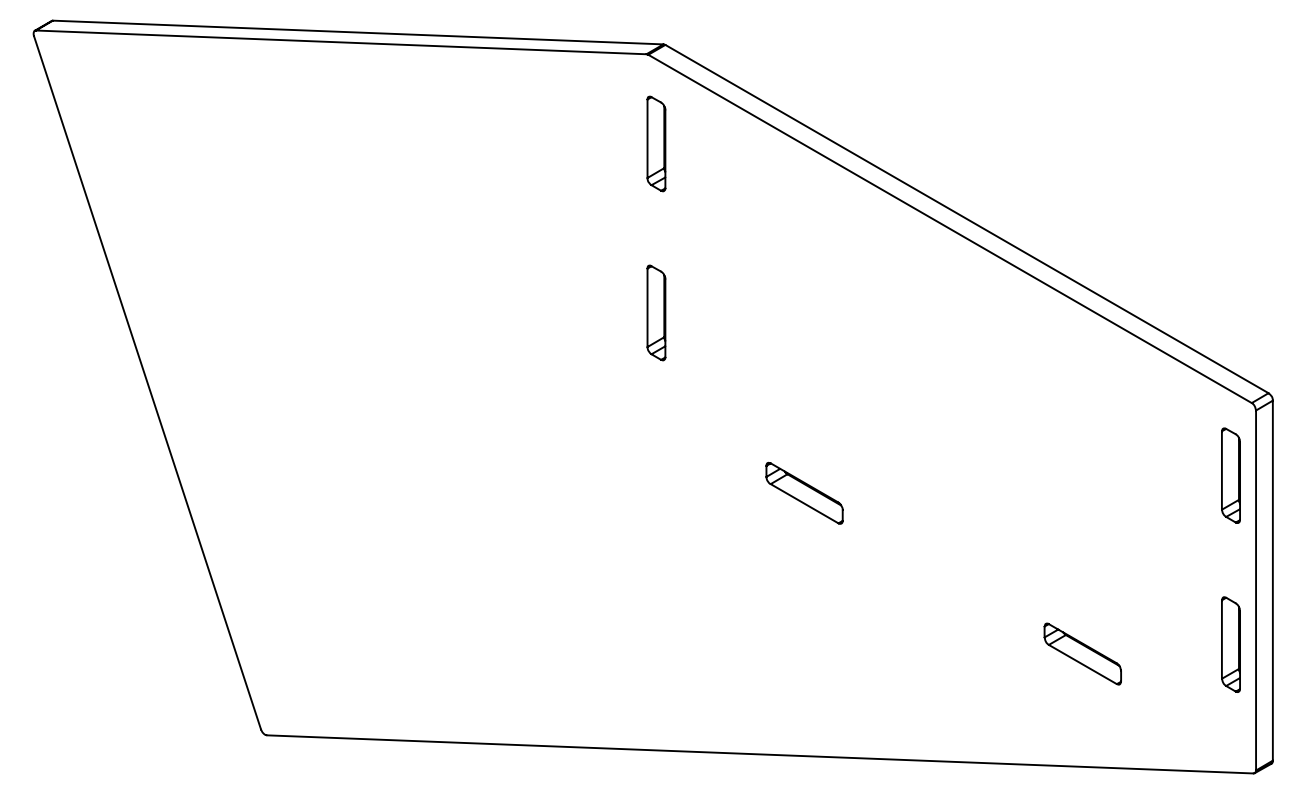
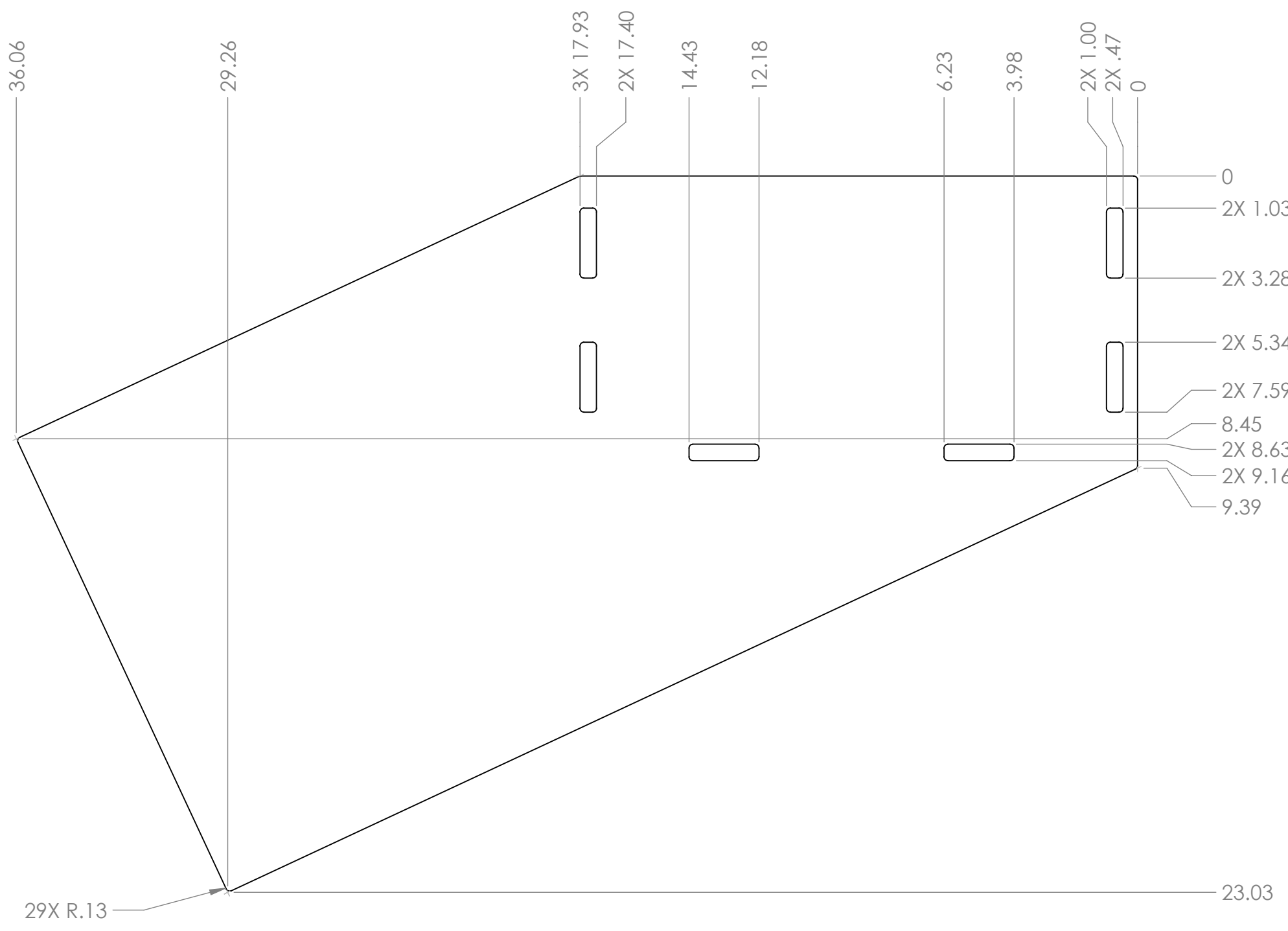
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UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .005$  <b>MATERIAL/FINISH:</b> 1/2" Black HDPE, Orange Peel Texture  DO NOT SCALE DRAWING	VEND	NAME	DATE		
	DRAWN	BB	7/22/2024		
	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.			TITLE:	<b>Coral Holder Side Panel</b>
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			SIZE <b>C</b>	
SCALE: 1:8		SHEET 1 OF 1			