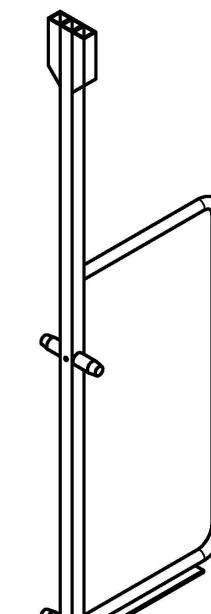
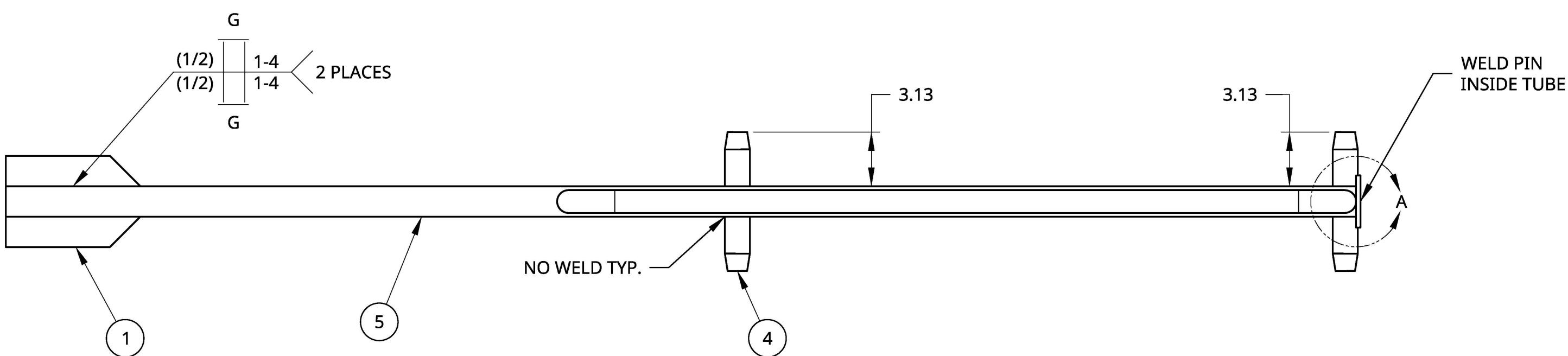
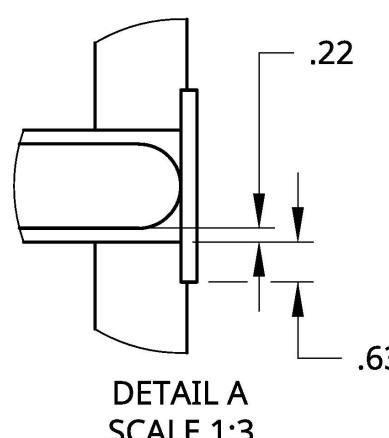
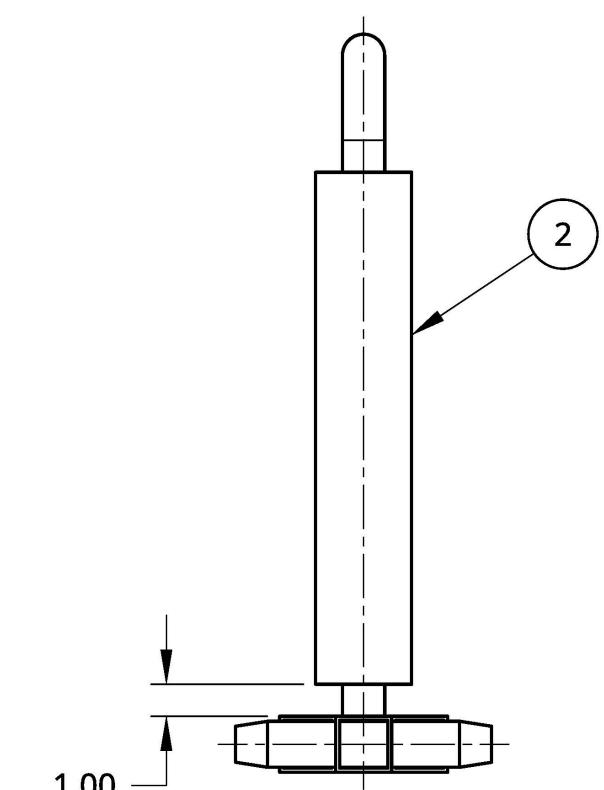
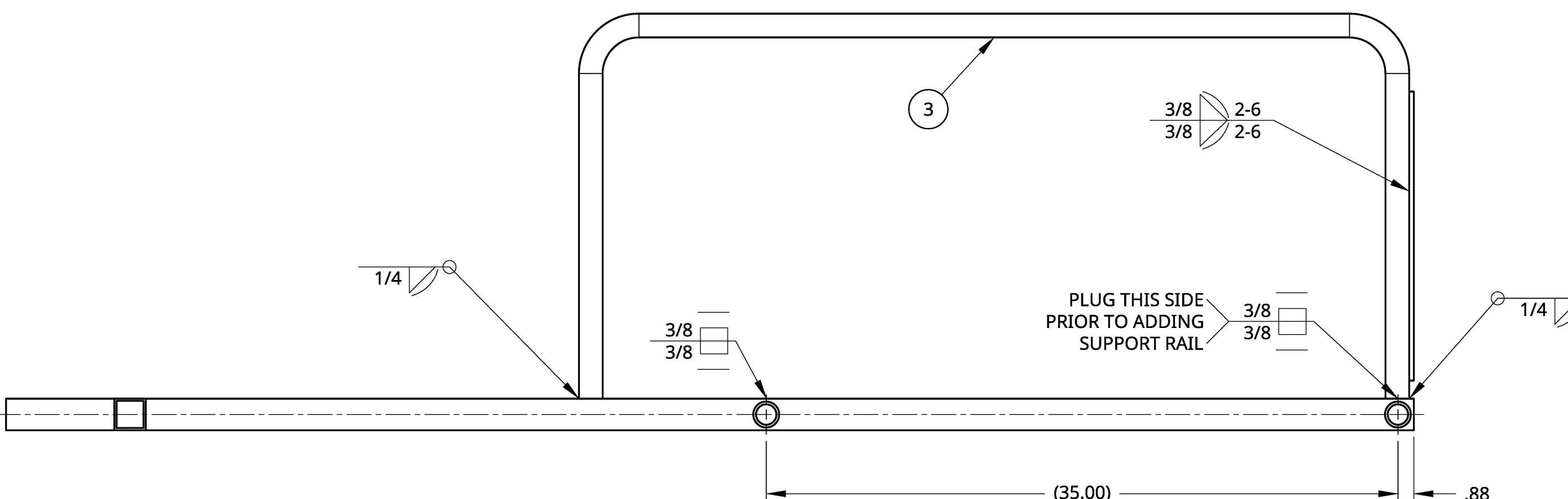


D

D



SCALE 1:20

DETAIL A
SCALE 1:3

1.00

NOTES:
REMOVE ALL SHARP EDGES.

Item	Quantity	Part number	Description
1	2	FE-00001-01	1-3/4" x 1-3/4" x 1/8" 6061 Aluminum Tubing
2	1	FE-00001-02	1/4" 6061 Aluminum Plate
3	1	FE-00001-03	1" Schedule 40 Aluminum Tube
4	2	FE-00001-04	1-7/16" Diameter 6061 Aluminum Rod
5	1	FE-00001-05	1-3/4" x 1-3/4" x 1/8" 6061 Aluminum Tubing

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.02 ANGULAR = ± 1° .XXX = ±.010		WELD	NAME	DATE	FIRST ROBOTICS COMPETITION		
DO NOT SCALE DRAWING		DRAWN	DF	12/23/2025			
BREAK ALL SHARP EDGES AND REMOVE BURRS		MATERIAL			TITLE DRIVERS STATION SUPPORT WELDMENT		
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.							
					C	FE-00001	
					SCALE	1:6	1 of 6

D

D

C

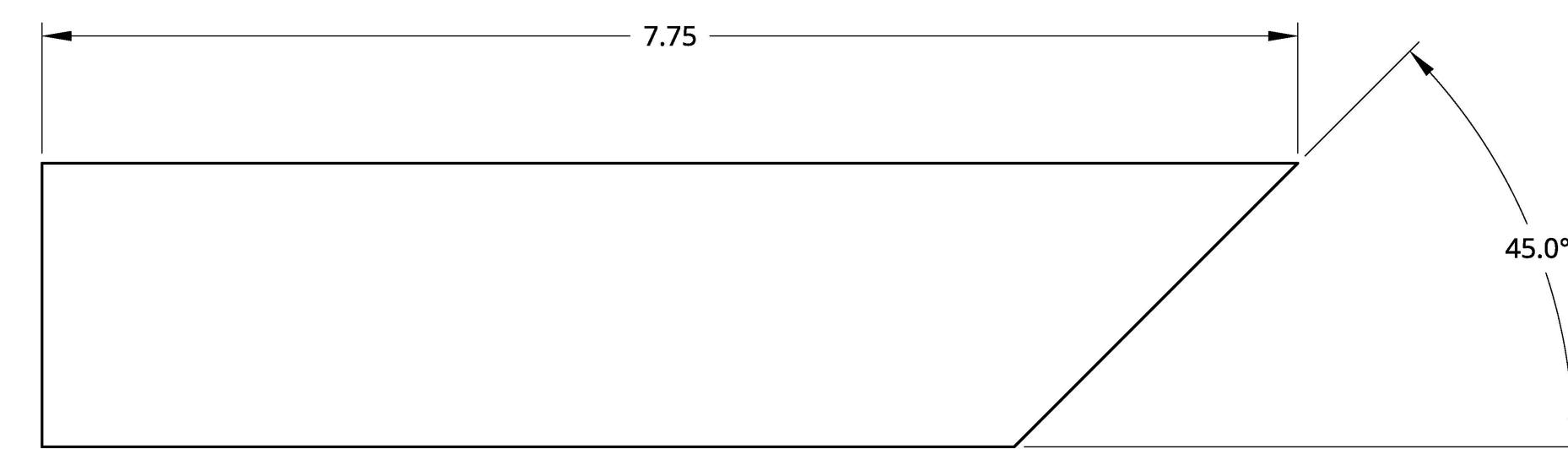
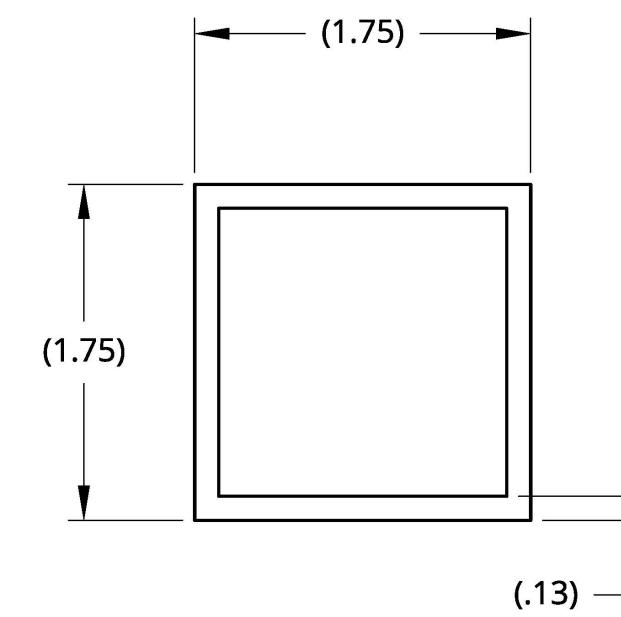
C

B

B

A

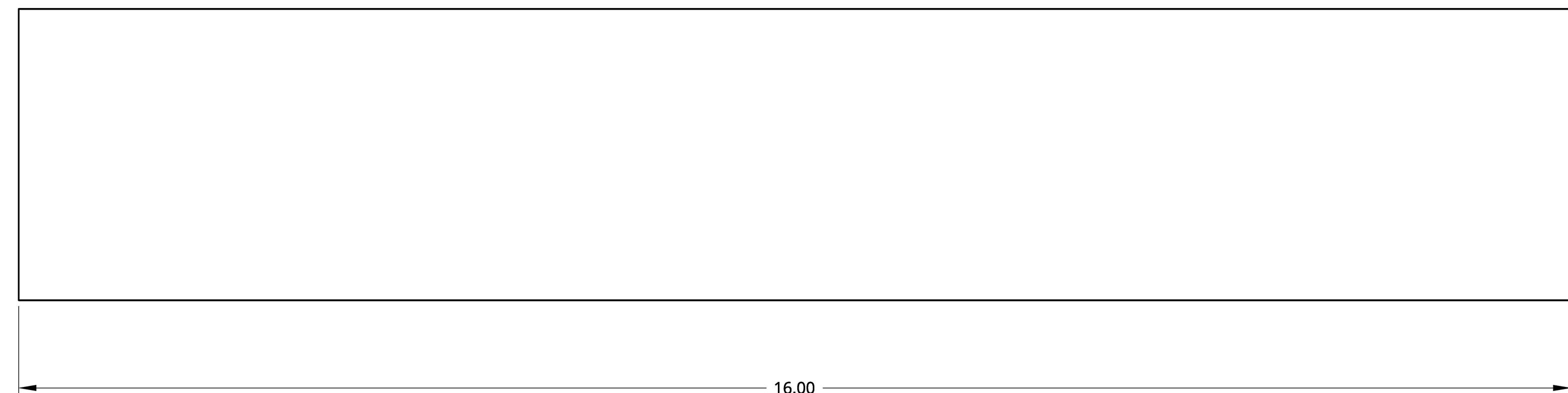
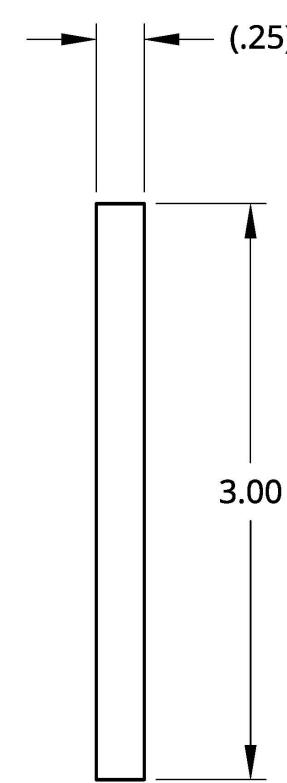
A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES XX = ±.02 ANGULAR = ± 1° XXX = ±.010		WELD	NAME	DATE	FIRST ROBOTICS COMPETITION	
DO NOT SCALE DRAWING		DRAWN	DF	12/23/2025	TITLE	
BREAK ALL SHARP EDGES AND REMOVE BURRS		MATERIAL			1-3/4" X 1-3/4" X 1/8" 6061 ALUMINUM TUBING	
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.			SIZE	DWG NO.	FE-00001-01	
			SCALE	1:1	REV. 2 of 6	

D

D



B

B

A

A

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.02 ANGULAR = ± 1° .XXX = ±.010	WELD DRAWN	NAME DF	DATE 12/23/2025	FIRST ROBOTICS COMPETITION
DO NOT SCALE DRAWING BREAK ALL SHARP EDGES AND REMOVE BURRS	MATERIAL 1/4" 6061 ALUMINUM PLATE	TITLE 1/4" 6061 ALUMINUM PLATE		
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.	SIZE C	DWG NO. FE-00001-02	REV.	
	SCALE 1:1	SHEET 3 of 6		

D

D

C

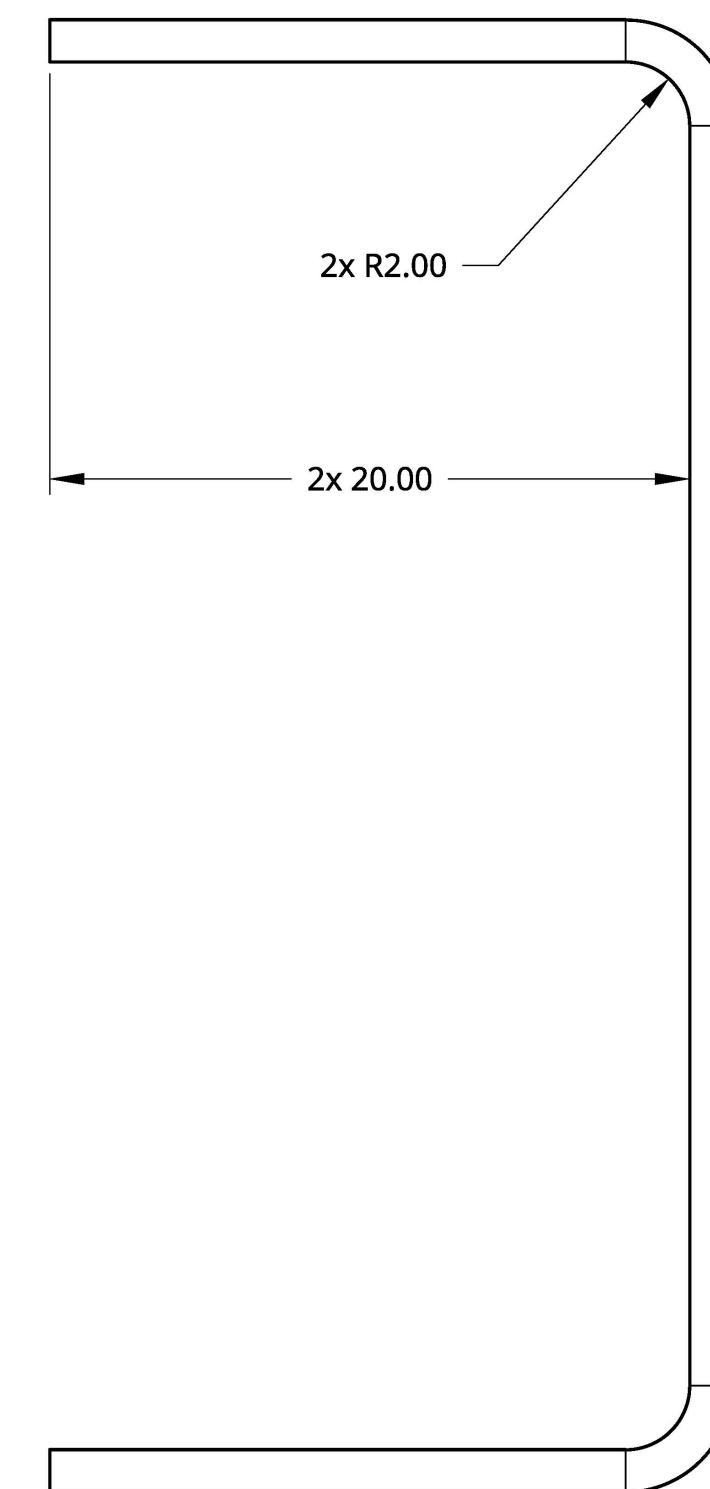
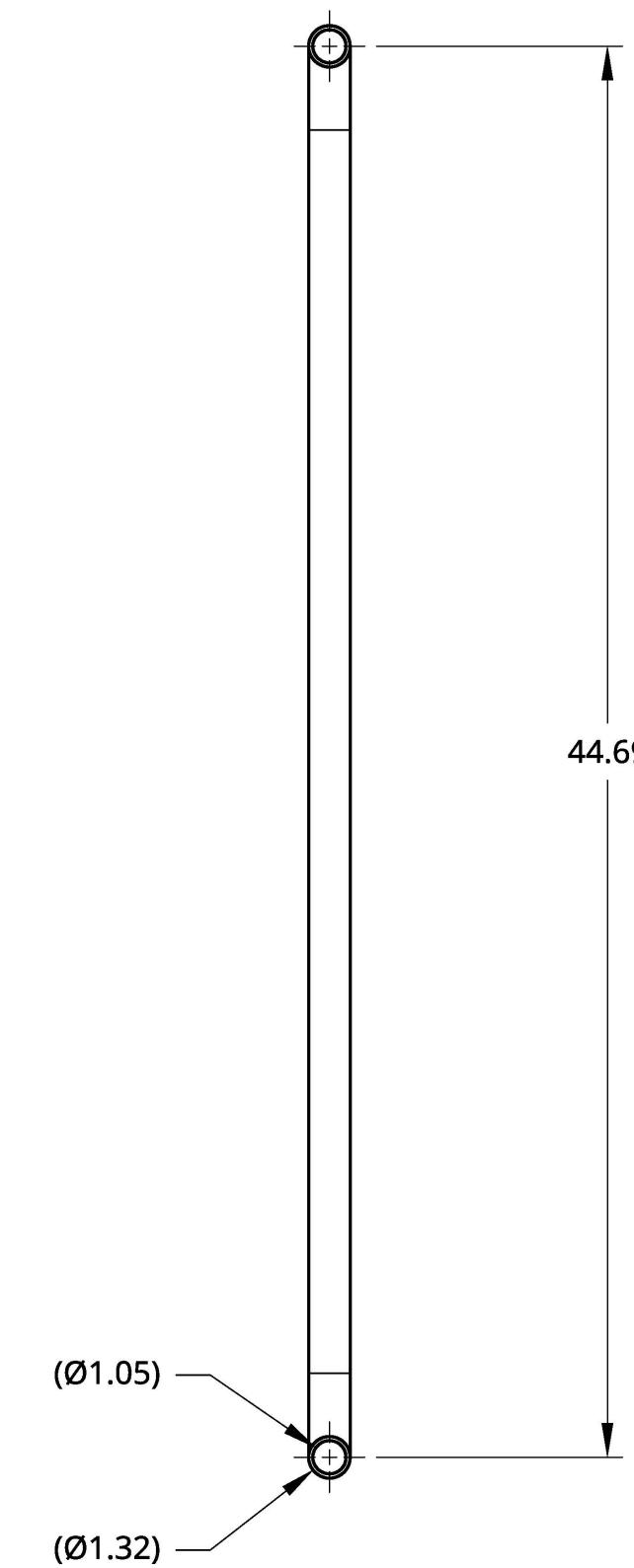
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES XX = ±.02 ANGULAR = ± 1° XXX = ±.010	WELD	NAME	DATE	FIRST ROBOTICS COMPETITION
	DRAWN	DF	12/23/2025	
DO NOT SCALE DRAWING				
BREAK ALL SHARP EDGES AND REMOVE BURRS				
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.	MATERIAL			
	1" SCHEDULE 40 ALUMINUM TUBE			
	SIZE	DWG NO.		
	C	FE-00001-03	REV.	
	SCALE	1:6		SHEET 4 of 6

D

D

C

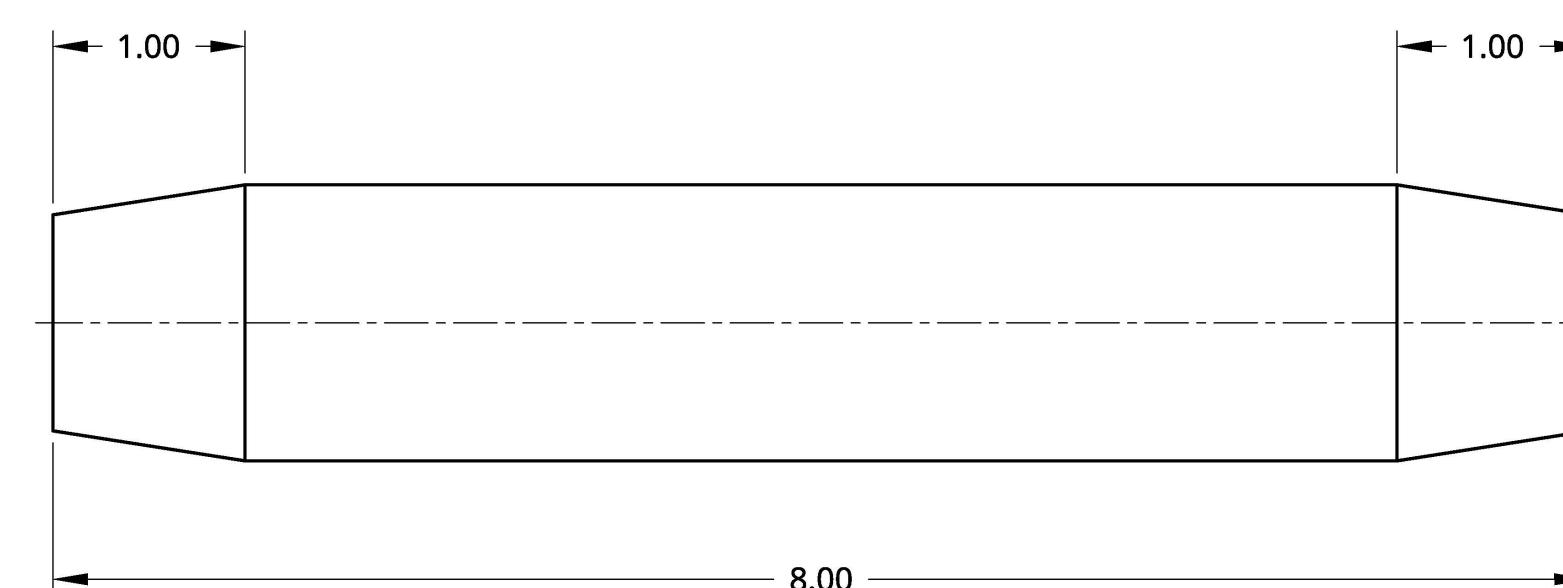
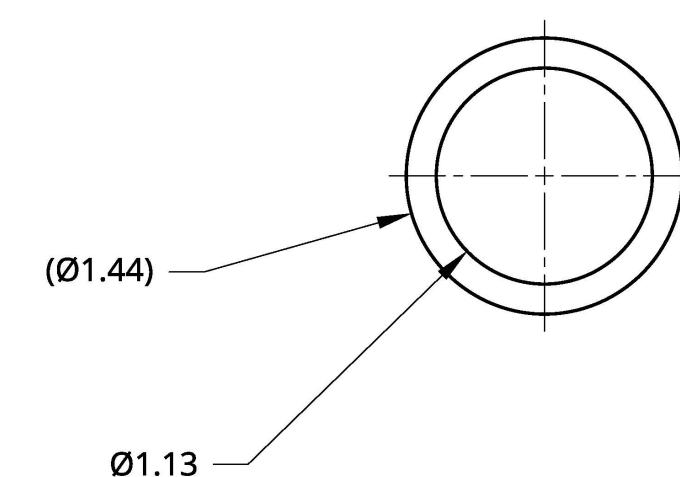
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.02 ANGULAR = ± 1° .XXX = ±.010	WELD	NAME	DATE	 FIRST ROBOTICS COMPETITION
	DRAWN	DF	12/23/2025	
DO NOT SCALE DRAWING	MATERIAL 1-7/16" DIAMETER 6061 ALUMINUM ROD	TITLE 1-7/16" DIAMETER 6061 ALUMINUM ROD	SIZE C DWG NO. FE-00001-04	REV. 1:1 SHEET 5 of 6
BREAK ALL SHARP EDGES AND REMOVE BURRS				
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.				

D

D

C

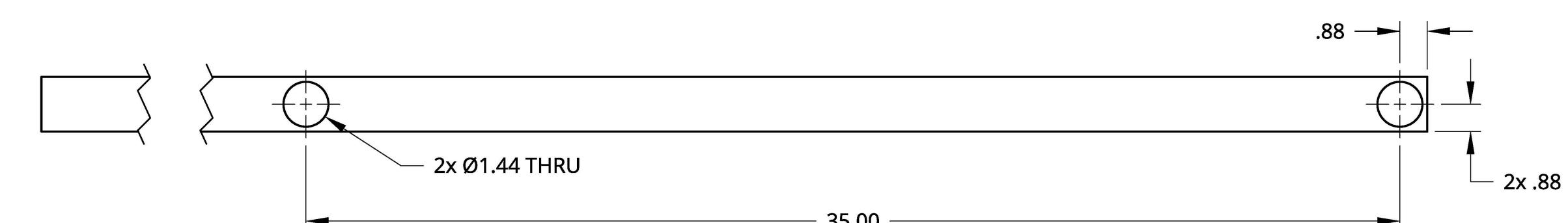
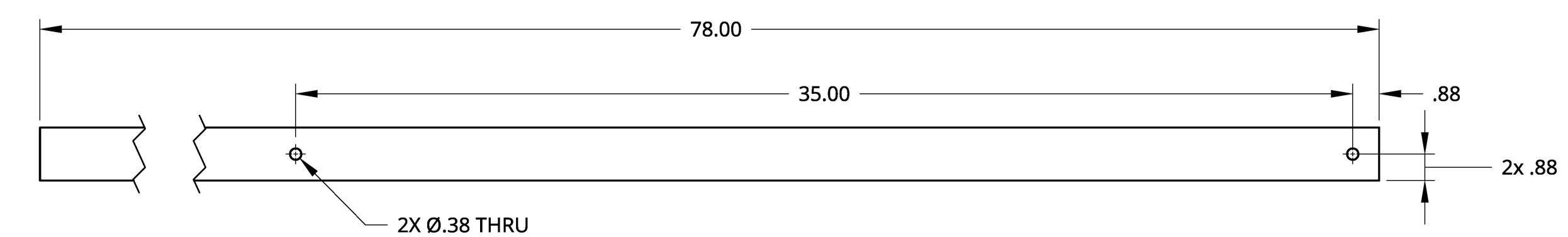
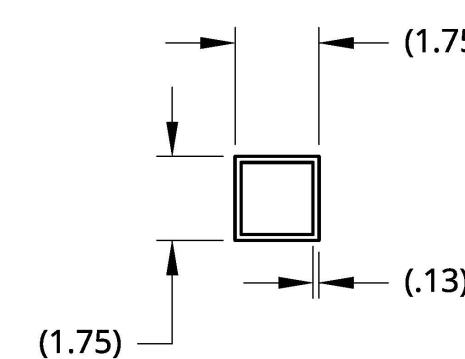
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES
XX = ±.02 ANGULAR = ± 1°
XXX = ±.010

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

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.

WELD	NAME	DATE
DRAWN	DF	12/23/2025

MATERIAL
1-3/4" X 1-3/4" X
1/8" 6061
ALUMINUM
TUBING

TITLE

1-3/4" X 1-3/4" X 1/8" 6061
ALUMINUM TUBING

SIZE C DWG NO.

FE-00001-05

REV.

SCALE 1:4 SHEET

6 of 6

D

D

C

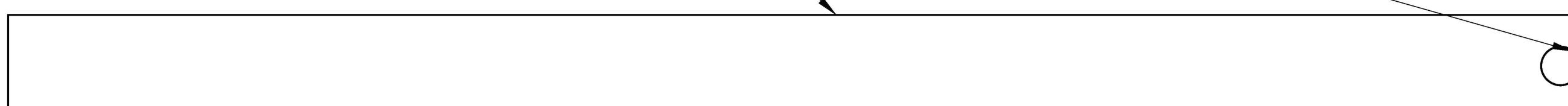
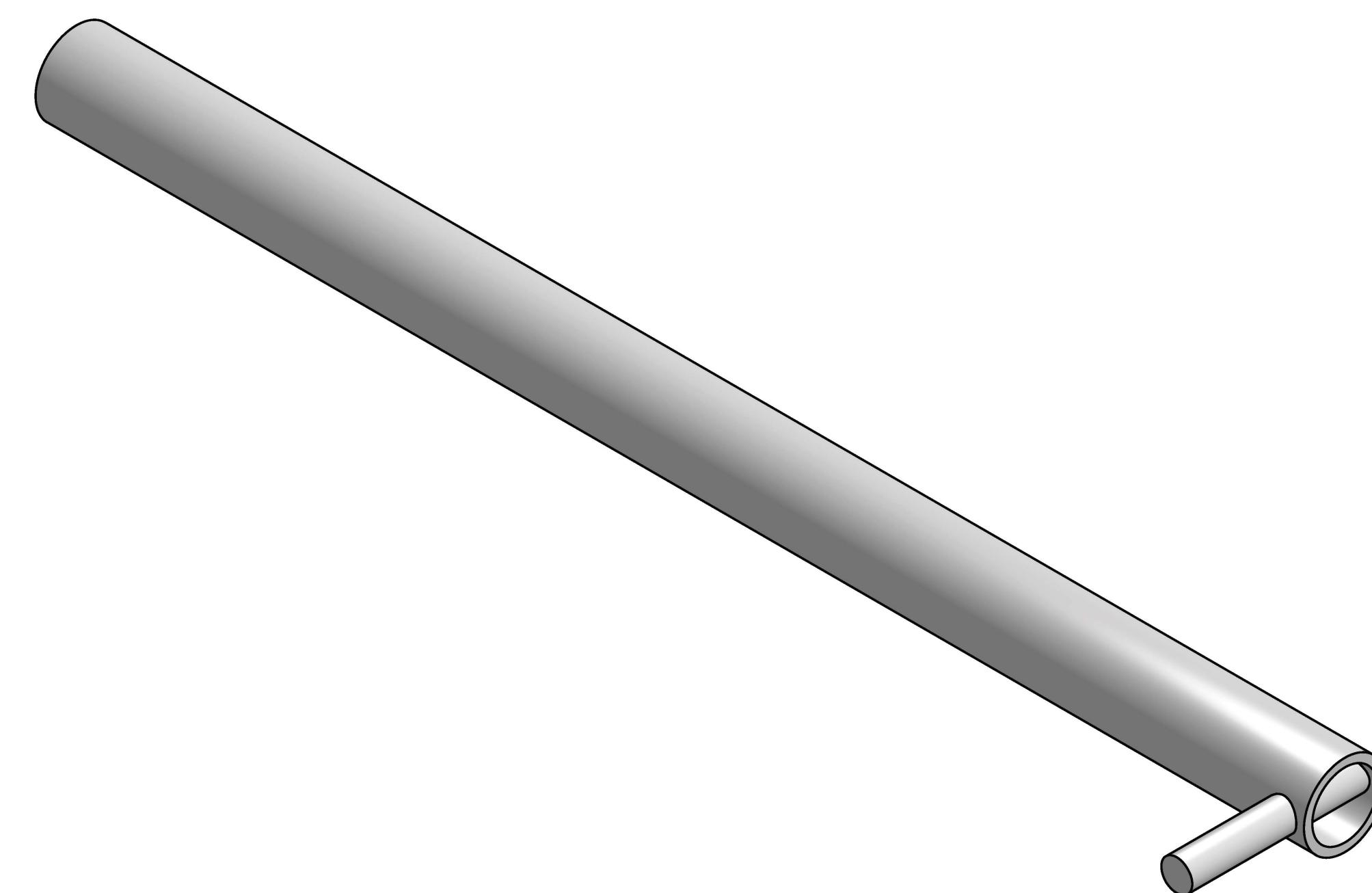
C

B

B

A

A



1/2

Item	Quantity	Part number	Description
1	1	FE-00003-01	1" Schedule 40 6061 Aluminum Tube
2	1	FE-00003-02	1/2" 6061 Aluminum Rod

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND	NAME	DATE	FIRST ROBOTICS COMPETITION
DRAWN	JO	12/16/2025		
DO NOT SCALE DRAWING	MATERIAL			
BREAK ALL SHARP EDGES AND REMOVE BURRS	TITLE			
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.	6061 ALUMINUM	SIZE	DWG NO.	REV.
		C	FE-00003	
	SCALE	1:1.5	SHEET	1 of 3

D

D

C

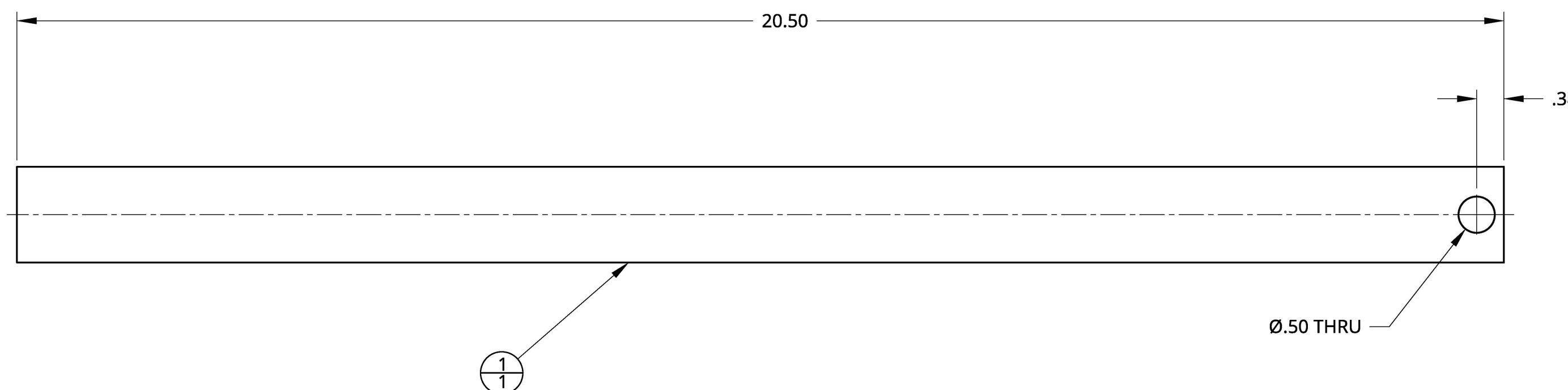
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND DRAWN	NAME JO	DATE 12/16/2025	FIRST ROBOTICS COMPETITION			
DO NOT SCALE DRAWING	MATERIAL 1" SCHEDULE 40 6061 ALUMINUM TUBE		TITLE 1" SCHEDULE 40 6061 ALUMINUM TUBE				
BREAK ALL SHARP EDGES AND REMOVE BURRS			SIZE C				
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.			DWG NO. FE-00003-01	REV.			
			SCALE 1:1.5	SHEET 2 of 3			

D

D

C

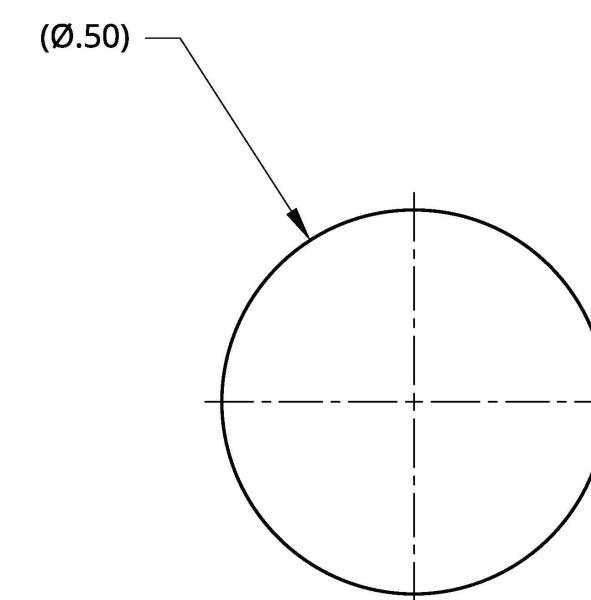
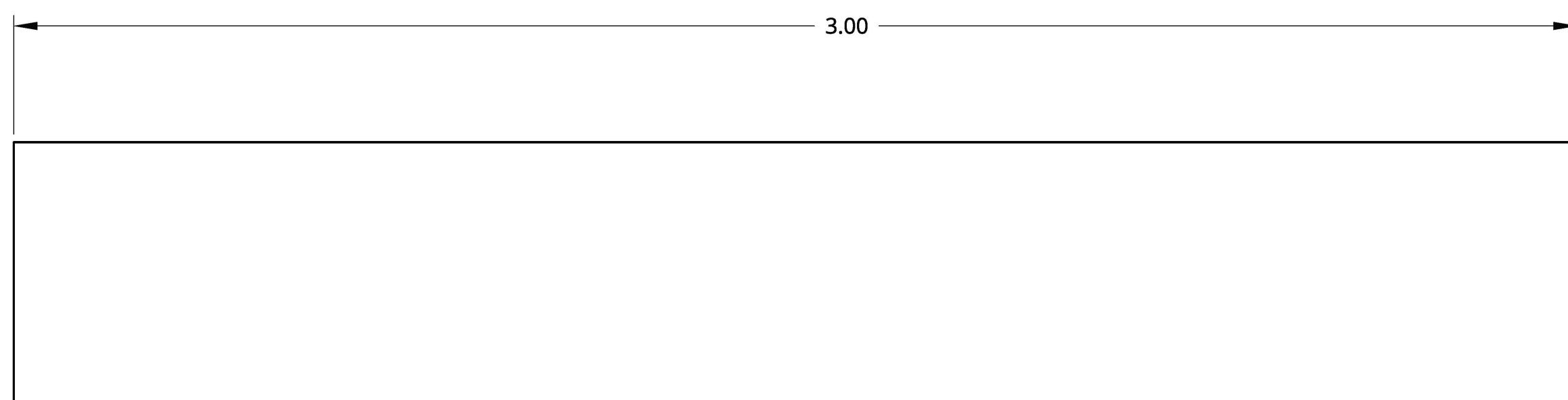
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005				VEND	NAME	DATE	 FIRST ROBOTICS COMPETITION		
				DRAWN	JO	12/16/2025			
DO NOT SCALE DRAWING				MATERIAL 1/2" 6061 ALUMINUM ROD	TITLE 1/2" 6061 ALUMINUM ROD				
BREAK ALL SHARP EDGES AND REMOVE BURRS									
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.									
					SIZE C	DWG NO. FE-00003-02	REV.		
				SCALE 4:1	SHEET 3 of 3				

CHANNEL SITS ON DIAMOND PLATE

5

3/8 $\sqrt{2.5-17.5}$

(.75)

3/8 $\sqrt{2.5-17.5}$

DETAIL B
SCALE 1:2

SCALE 1:2

34.00
TO BOTTOM
OF SHELF

90.0
WHEN OP

DIAMOND PLATE
THIS SIDE

B

C

4

HINGE TO PLATE CONNECTION

FLUSH WHEN OPENED

1.00

DETAIL C
SCALE 1:3

DETAIL A
SCALE 1:3

1.00

6.00

1/4 2.5-5.5

1/4 2.5-5

1/4 1 2 PLACES X 3 HINGES

2

3

D

D

35.00
CENTER TO CENTER
BOTH ENDS

1

A

Detailed description: This technical drawing shows a bridge structure with a central support column. The top horizontal beam is divided into three sections by vertical supports. Each section has a height of 1/4 and a width of 2.5-5.5. The central section has a height of 1/4 and a width of 1, with 2 places x 3 hinges. The vertical supports are labeled 2 and 3. The distance from the base to the top of the central support is 35.00, labeled as center to center for both ends. A callout labeled 1 points to a circular feature on the left. A callout labeled 2 points to the top of the central support. A callout labeled 3 points to the right side of the central support. A callout labeled A points to the top left corner of the bridge. A dimension of 1.00 is shown on the left, and a dimension of 6.00 is shown at the bottom left. A vertical dimension line on the right indicates a total height of 35.00 from the base to the top of the central support.

NOTE:
REMOVE ALL SHARP EDGES AND BURRS

Item	Quantity	Part number	Description
1	1	FE-00004-01	3/16" Diamond Plate Sheet, 6061 Aluminum
2	2	FE-00004-02	Hinge, Aluminum 3" x .09", 1/4" Pin
3	1	FE-00004-03	Hinge, Aluminum 3" x .09", 1/4" Pin
4	2	FE-00004-04	1-3/4" x 1/8" Square Tube, 6061 Aluminum
5	1	FE-00004-05	3/4" x 3/4" x 1/8" Channel, 6063 Aluminum
6	1	FE-00004-06	1/4" Sheet, 6061 Aluminum
7	2	FE-00004-07	Hinge, Aluminum 3" x .09", 1/4" Pin
8	2	FE-00004-08	Hinge, Aluminum 3" x .09", 1/4" Pin
9	2	FE-00004-09	1/8" Sheet, 6061 Aluminum
10	2	FE-00004-10	1/8" Sheet, 6061 Aluminum

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES

.XX = $\pm .01$ ANGULAR = $\pm 1^\circ$
.XXX = $\pm .005$

DO NOT SCALE DRAWING

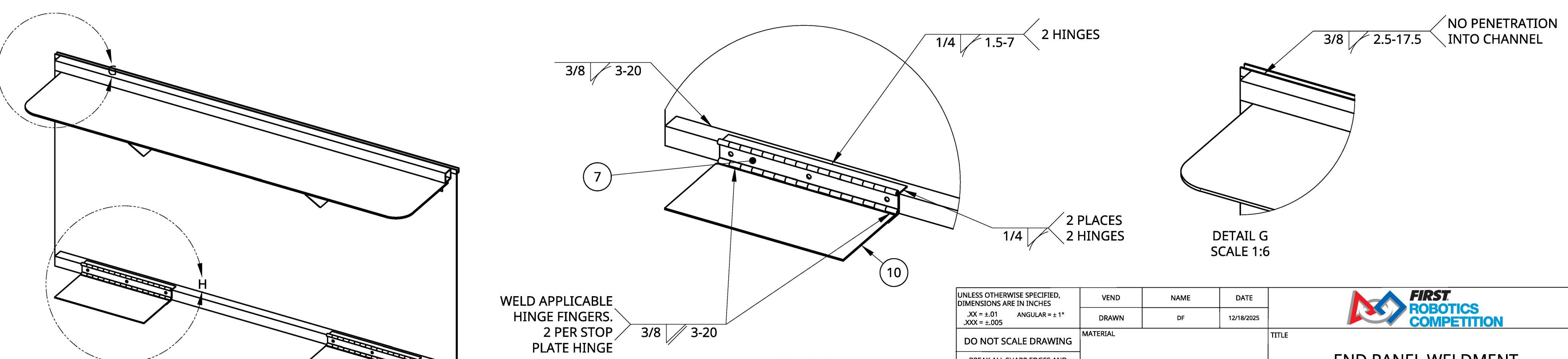
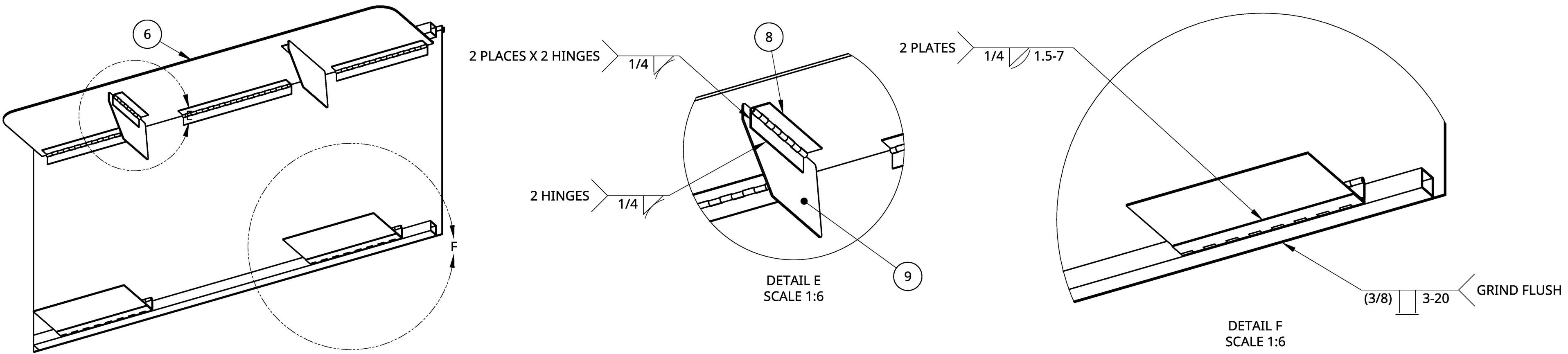
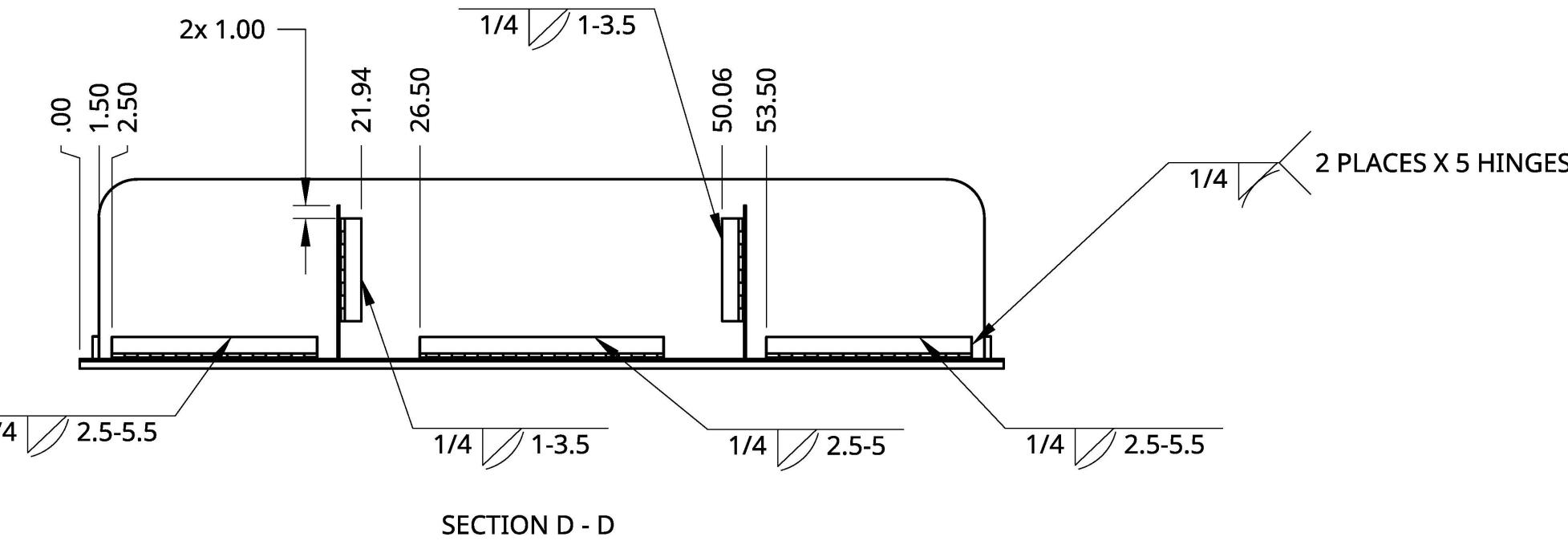
**BREAK ALL SHARP EDGES AND
REMOVE BURRS**

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

 FIRST
ROBOTICS
COMPETITION

END PANEL WELDMENT

DWG NO.	FE-00004	REV.
1:8	SHEET	1 of 12



UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES
XX = ±.01 ANGULAR = ± 1°
XXX = ±.005

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

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.

VEND
DRAWN
MATERIAL

NAME
DF

DATE
12/18/2025

FIRST
ROBOTICS
COMPETITION

TITLE
END PANEL WELDMENT

SIZE C DWG NO.
FE-00004

REV.

SCALE 1:12

SHEET 2 of 12

D

D

C

C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = $\pm .01$ ANGULAR = $\pm 1^\circ$.XXX = $\pm .005$	VEND DRAWN	NAME DF	DATE 12/18/2025	FIRST ROBOTICS COMPETITION
DO NOT SCALE DRAWING BREAK ALL SHARP EDGES AND REMOVE BURRS	MATERIAL 3/16" DIAMOND PLATE SHEET, 6061 ALUMINUM	TITLE 3/16" DIAMOND PLATE SHEET, 6061 ALUMINUM		
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.	SIZE C	DWG NO. FE-00004-01	REV.	
	SCALE 1:8	SHEET 3 of 12		

D

D

C

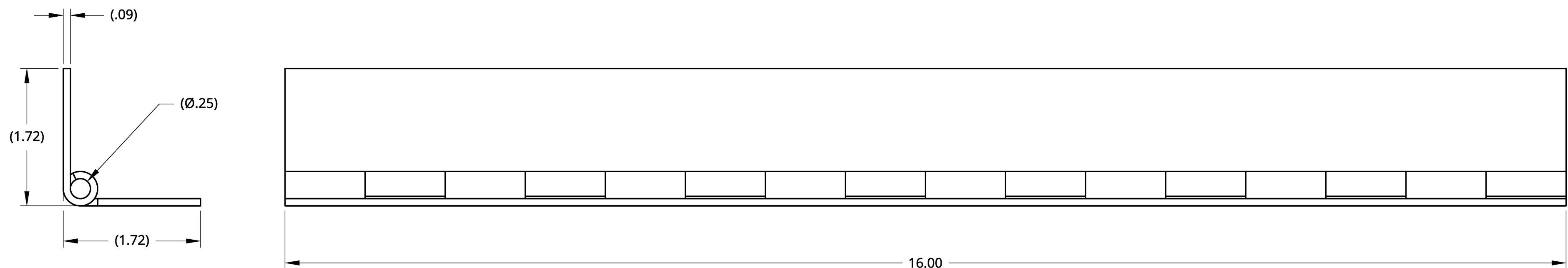
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = $\pm .01$ ANGULAR = $\pm 1^\circ$.XXX = $\pm .005$				VEND	NAME	DATE	FIRST ROBOTICS COMPETITION					
				DRAWN	DF	12/18/2025						
DO NOT SCALE DRAWING				MATERIAL	HINGE, ALUMINUM 3" X .09", 1/4" PIN		TITLE					
BREAK ALL SHARP EDGES AND REMOVE BURRS							HINGE, ALUMINUM 3" X .09", 1/4" PIN					
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.							SIZE	DWG NO.	REV.			
				C	FE-00004-02		SCALE	1:1	SHEET 4 of 12			

D

D

C

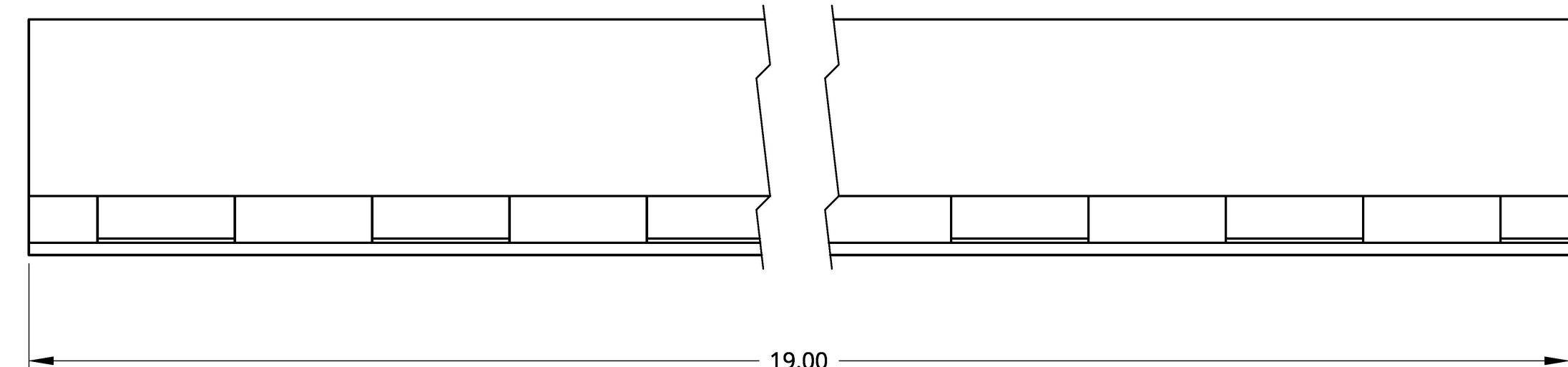
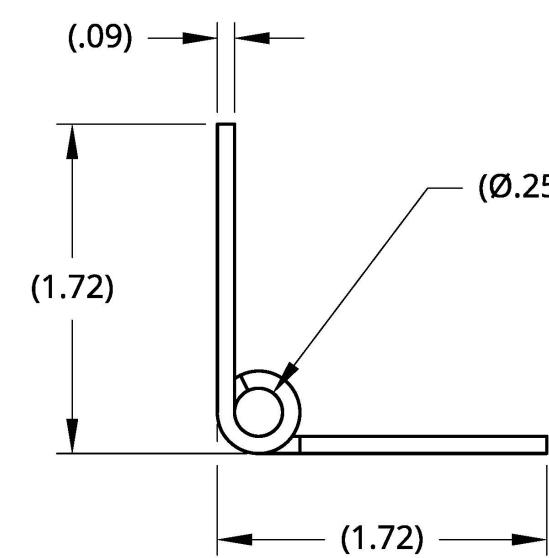
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = $\pm .01$ ANGULAR = $\pm 1^\circ$.XXX = $\pm .005$	VEND DRAWN	NAME DF	DATE 12/18/2025	 HINGE, ALUMINUM 3" X .09", 1/4" PIN	
DO NOT SCALE DRAWING	MATERIAL				
BREAK ALL SHARP EDGES AND REMOVE BURRS					
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.					
	SIZE C	DWG NO. FE-00004-03	REV.		
	SCALE 1:1	SHEET 5 of 12			

D

D

C

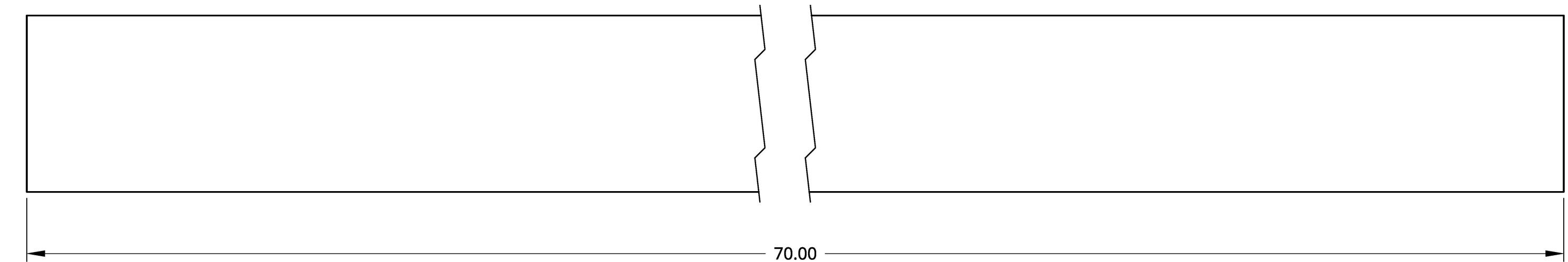
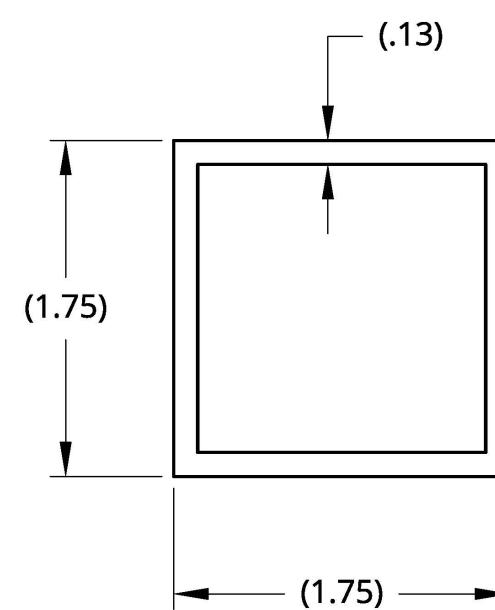
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = $\pm .01$ ANGULAR = $\pm 1^\circ$.XXX = $\pm .005$	VEND	NAME	DATE	 FIRST ROBOTICS COMPETITION
	DRAWN	DF	12/18/2025	
DO NOT SCALE DRAWING	MATERIAL 1-3/4" X 1/8" SQUARE TUBE, 6061 ALUMINUM		TITLE	1-3/4" X 1/8" SQUARE TUBE, 6061 ALUMINUM
BREAK ALL SHARP EDGES AND REMOVE BURRS			SIZE	DWG NO.
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.			C	FE-00004-04
SCALE	1:1		REV.	6 of 12

D

D

C

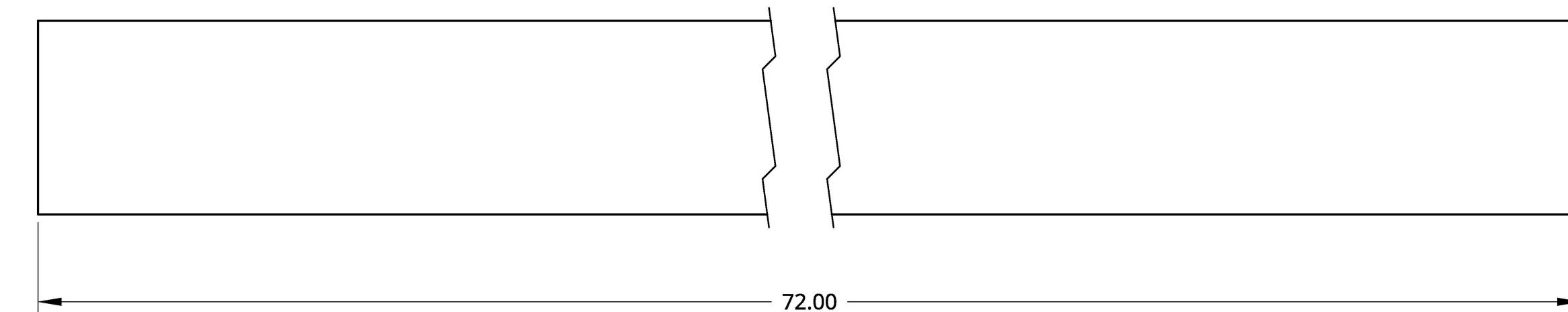
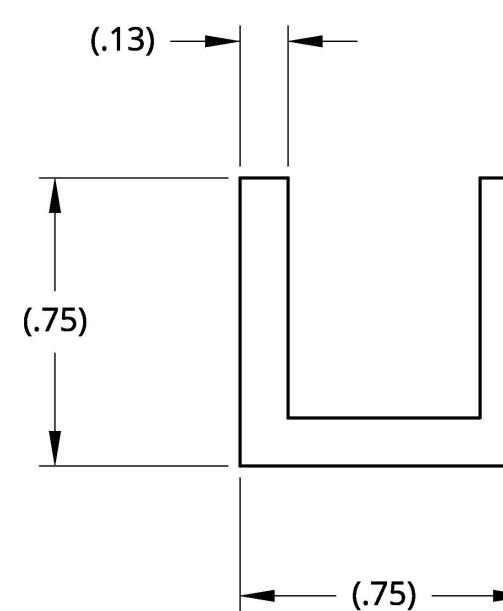
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = $\pm .01$ ANGULAR = $\pm 1^\circ$.XXX = $\pm .005$	VEND	NAME	DATE	 FIRST ROBOTICS COMPETITION
	DRAWN	DF	12/18/2025	
DO NOT SCALE DRAWING	MATERIAL 3/4" X 3/4" X 1/8" CHANNEL, 6063 ALUMINUM	TITLE 3/4" X 3/4" X 1/8" CHANNEL, 6063 ALUMINUM	SIZE C DWG NO. FE-00004-05 REV. 2:1 SCALE SHEET 7 of 12	
BREAK ALL SHARP EDGES AND REMOVE BURRS				
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.				

D

D

C

C

B

B

A

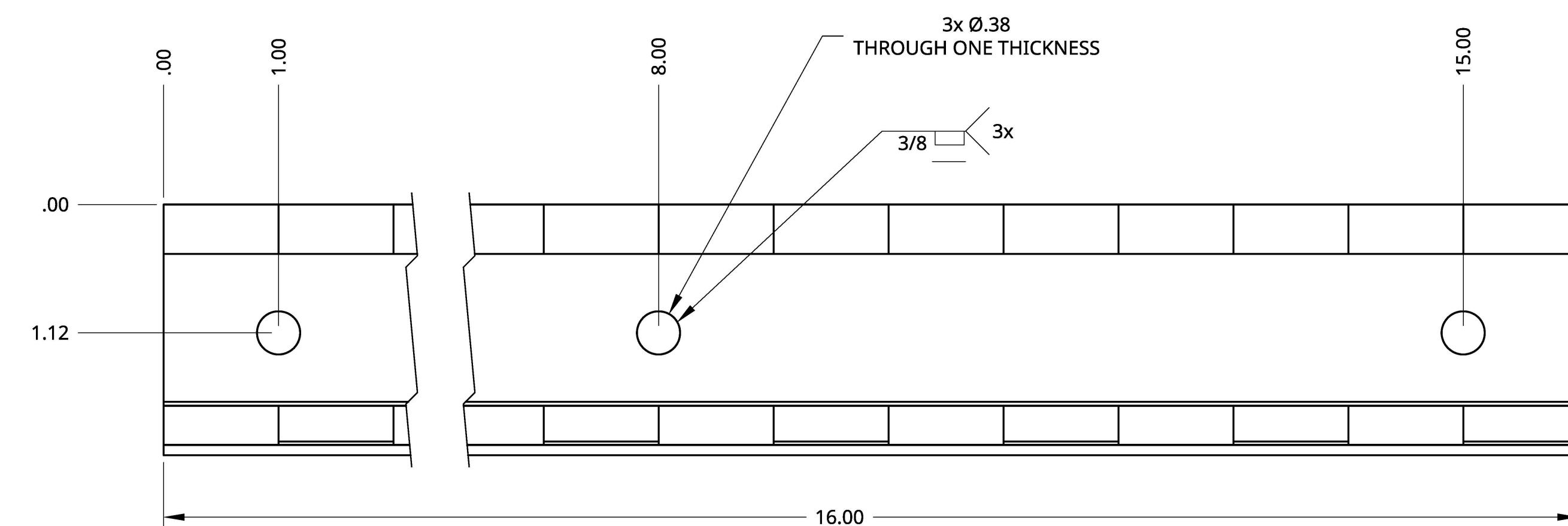
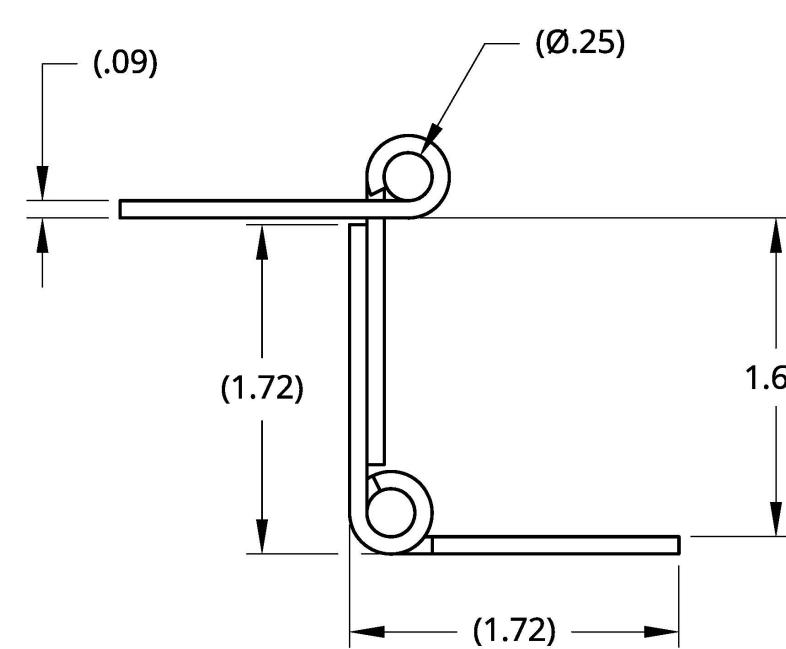
A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = $\pm .01$ ANGULAR = $\pm 1^\circ$.XXX = $\pm .005$	VEND	NAME	DATE	 FIRST ROBOTICS COMPETITION
	DRAWN	DF	12/18/2025	
DO NOT SCALE DRAWING	MATERIAL 1/4" SHEET, 6061 ALUMINUM	TITLE 1/4" SHEET, 6061 ALUMINUM	SIZE C DWG NO. FE-00004-06 REV. 1:5 SHEET 8 of 12	
BREAK ALL SHARP EDGES AND REMOVE BURRS				
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.				

D

D



C

C

B

B

A

A

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES $.XX = \pm .01$ ANGULAR $\pm 1^\circ$ $.XXX = \pm .005$	VEND	NAME	DATE	 FIRST ROBOTICS COMPETITION
	DRAWN	DF	12/18/2025	
DO NOT SCALE DRAWING	MATERIAL		TITLE	HINGE, ALUMINUM 3" X .09", 1/4" PIN
BREAK ALL SHARP EDGES AND REMOVE BURRS			SIZE	C DWG NO. FE-00004-07
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.			REV.	
	SCALE	1:1	SHEET	9 of 12

D

D

C

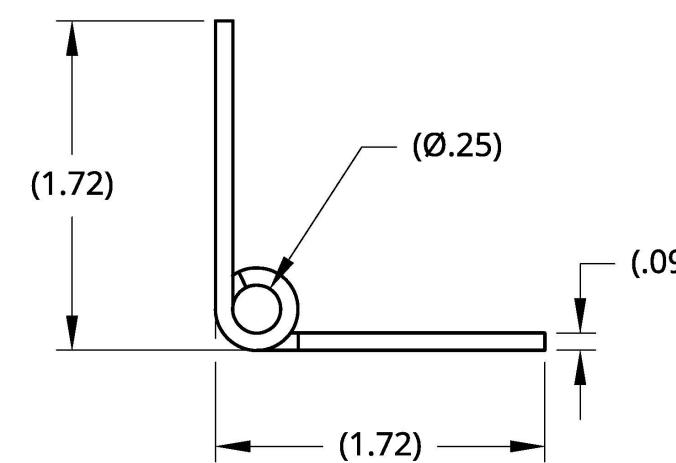
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES $.XX = \pm .01$ ANGULAR $\pm 1^\circ$ $.XXX = \pm .005$	VEND DRAWN	NAME DF	DATE 12/18/2025	 HINGE, ALUMINUM 3" X .09", 1/4" PIN	
DO NOT SCALE DRAWING BREAK ALL SHARP EDGES AND REMOVE BURRS					
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.	MATERIAL HINGE, ALUMINUM 3" X .09", 1/4" PIN	TITLE HINGE, ALUMINUM 3" X .09", 1/4" PIN	SIZE C	DWG NO. FE-00004-08	REV.
	SCALE 1:1	SHEET 10 of 12			

D

D

C

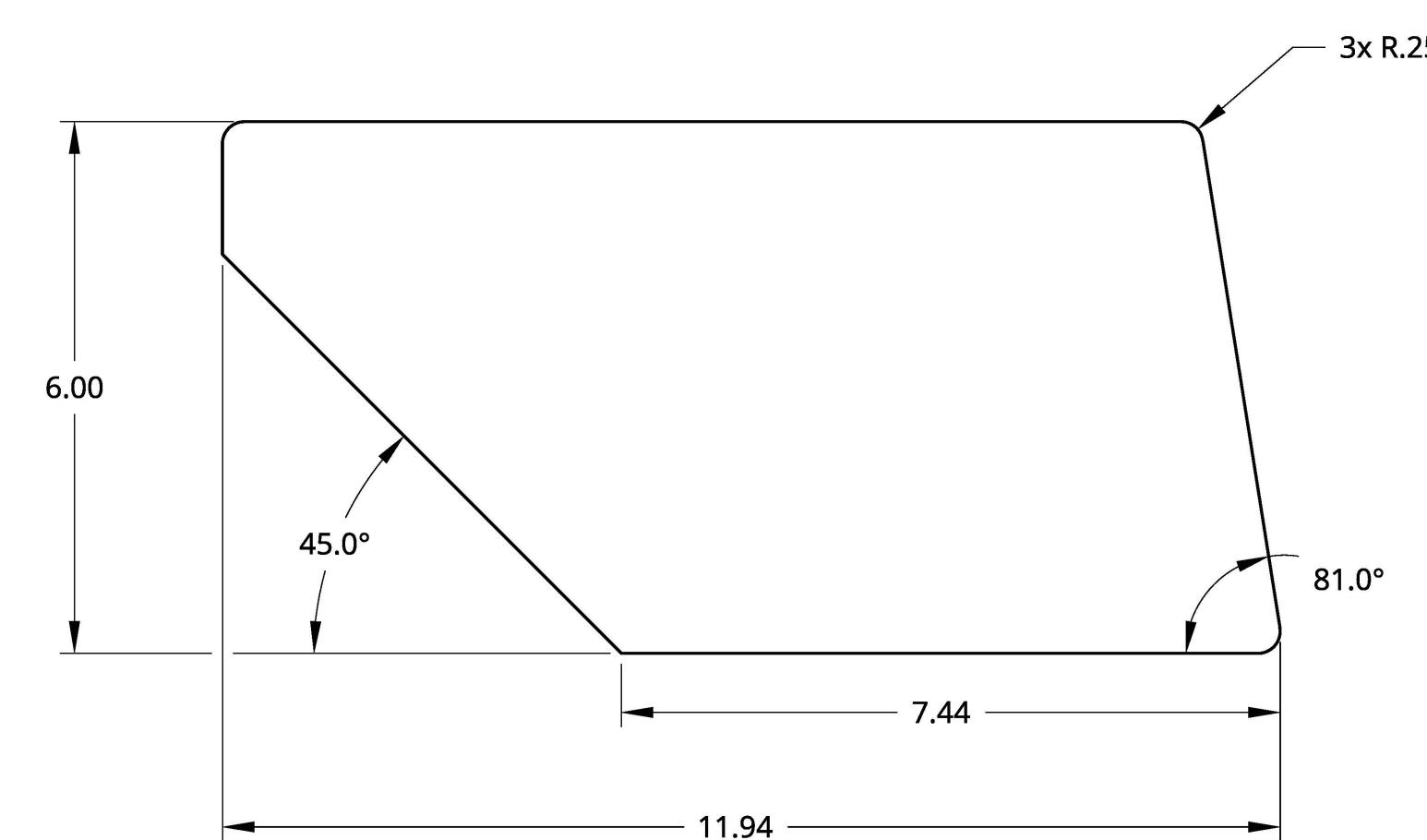
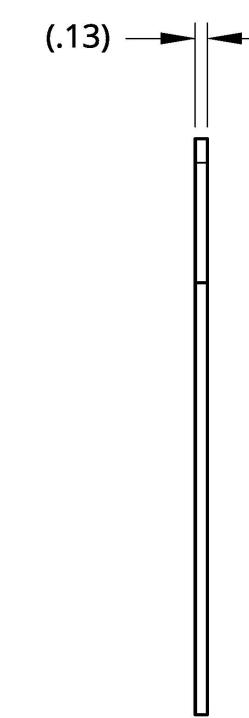
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND	NAME	DATE	FIRST ROBOTICS COMPETITION
	DRAWN	DF	12/18/2025	
DO NOT SCALE DRAWING	MATERIAL	1/8" SHEET, 6061 ALUMINUM	TITLE 1/8" SHEET, 6061 ALUMINUM	
BREAK ALL SHARP EDGES AND REMOVE BURRS				
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.				
SIZE	DWG NO.	FE-00004-09	REV.	
SCALE	1:2	SHEET	11 of 12	

D

D

C

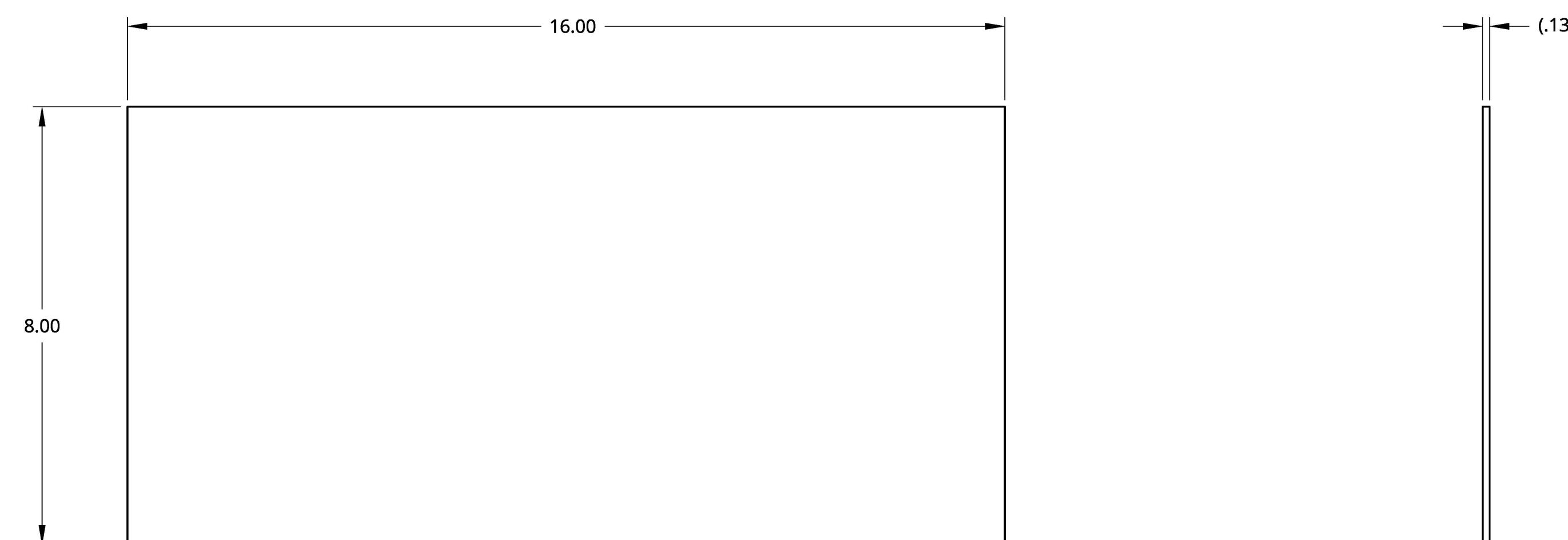
C

B

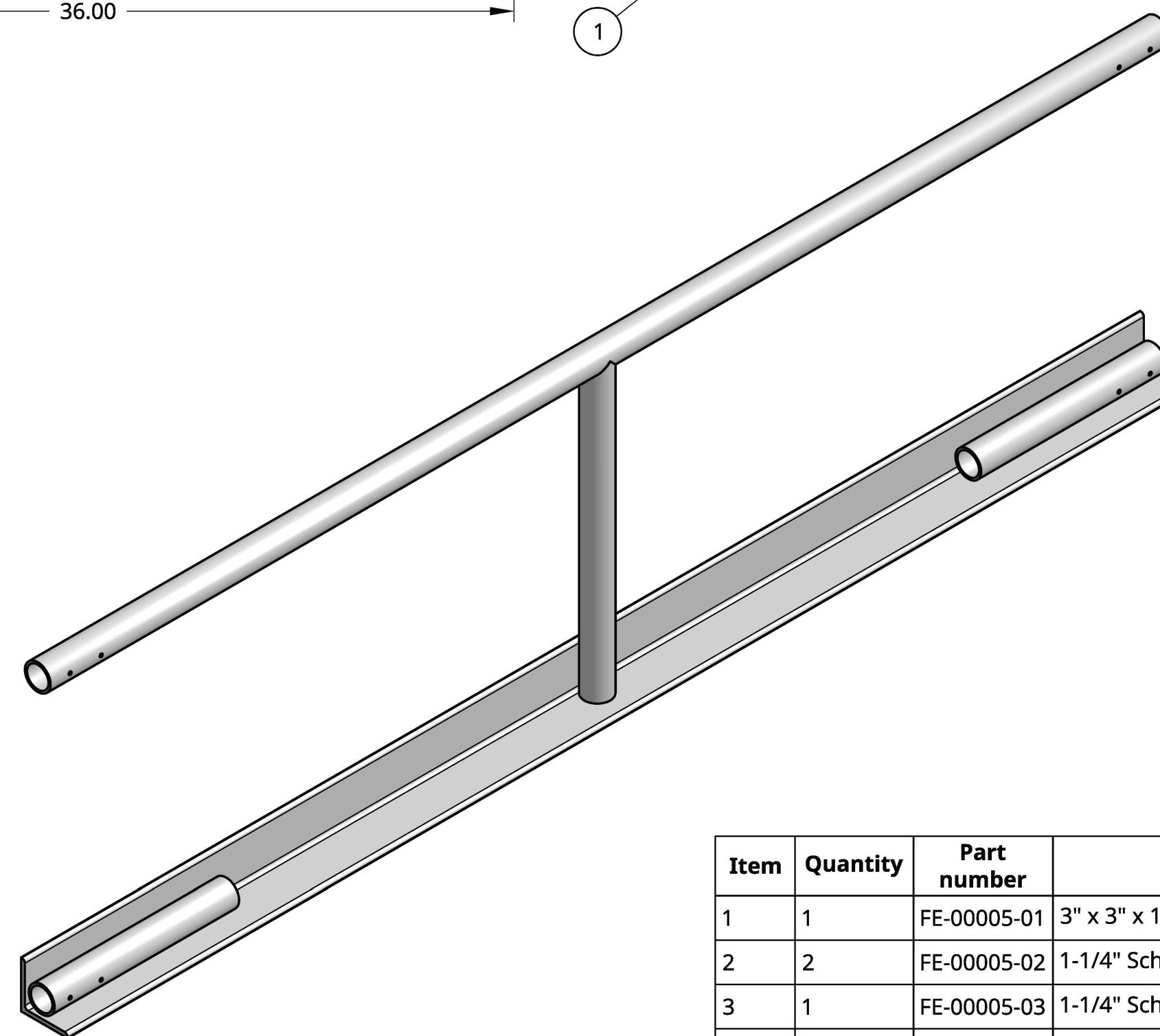
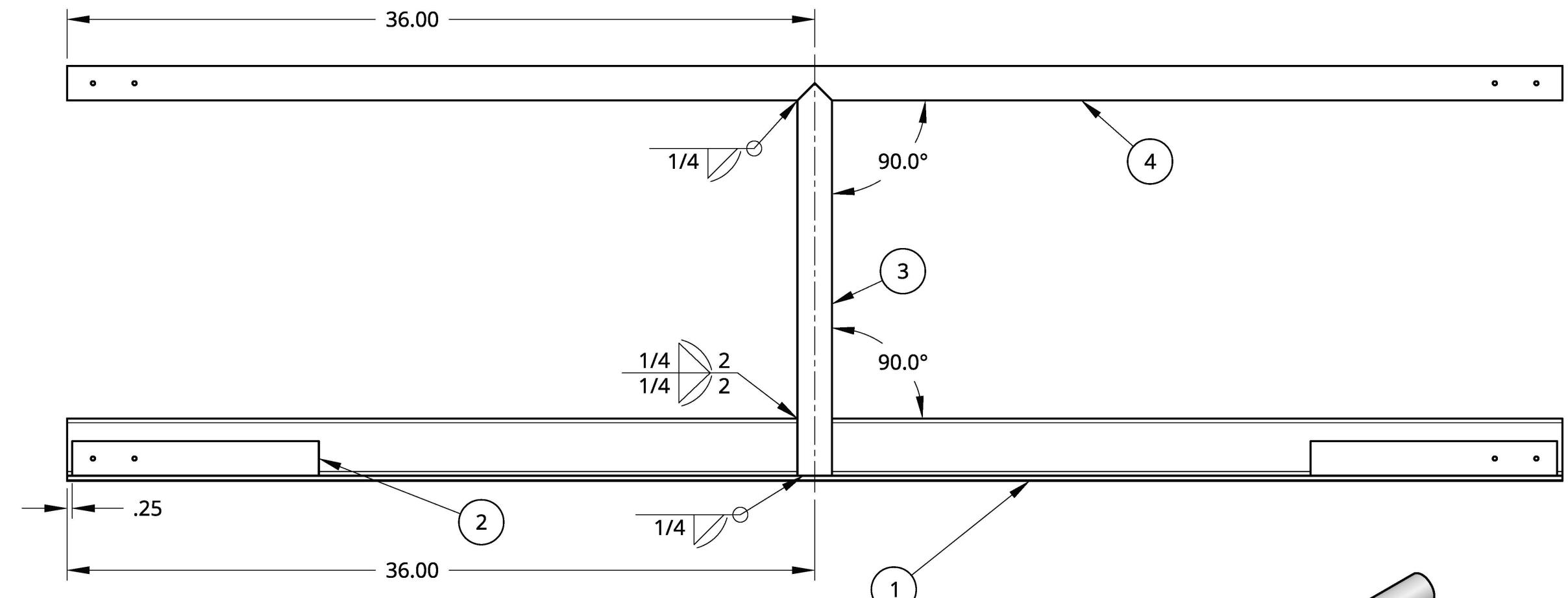
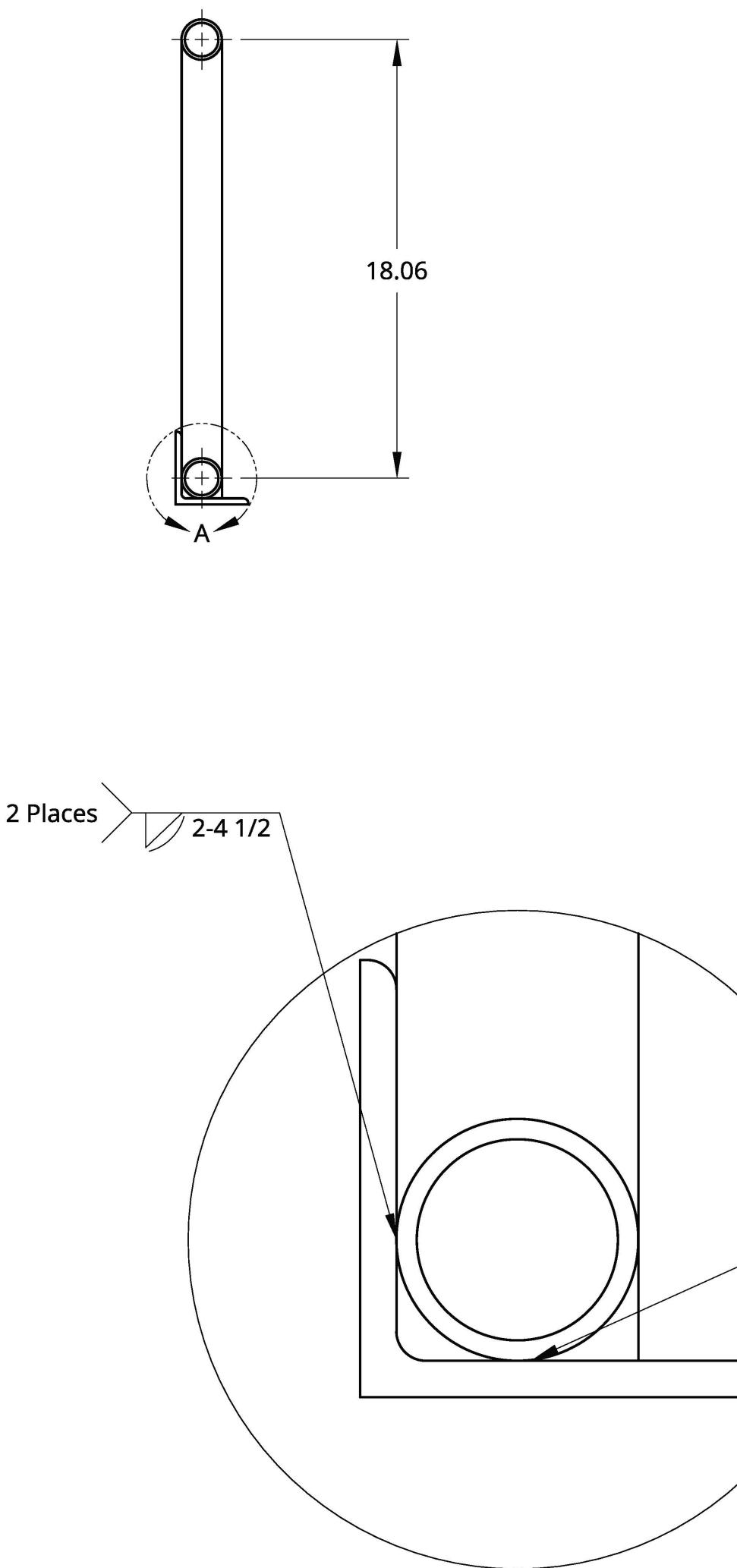
B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND	NAME	DATE	 FIRST ROBOTICS COMPETITION
	DRAWN	DF	12/18/2025	
DO NOT SCALE DRAWING	MATERIAL 1/8" SHEET, 6061 ALUMINUM	TITLE 1/8" SHEET, 6061 ALUMINUM	SIZE C	DWG NO. FE-00004-10
BREAK ALL SHARP EDGES AND REMOVE BURRS				
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.				
SCALE 1:2				REV. 12 of 12



Item	Quantity	Part number	Description
1	1	FE-00005-01	3" x 3" x 1/4" 6061 Aluminum Pipe
2	2	FE-00005-02	1-1/4" Schedule 40 6061 Aluminum Pipe
3	1	FE-00005-03	1-1/4" Schedule 40 6061 Aluminum Pipe
4	1	FE-00005-04	1-1/4" Schedule 40 6061 Aluminum Pipe

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = $\pm .01$ ANGULAR = $\pm 1^\circ$.XXX = $\pm .005$	VEND	NAME	DATE	FIRST ROBOTICS COMPETITION
DO NOT SCALE DRAWING	DRAWN	JO	12/17/2025	
MATERIAL				TITLE
				FIELD RAIL WELDMENT
SIZE	DWG NO.	FE-00005		REV.
SCALE	1:6			SHEET
				1 of 5

D

D

C

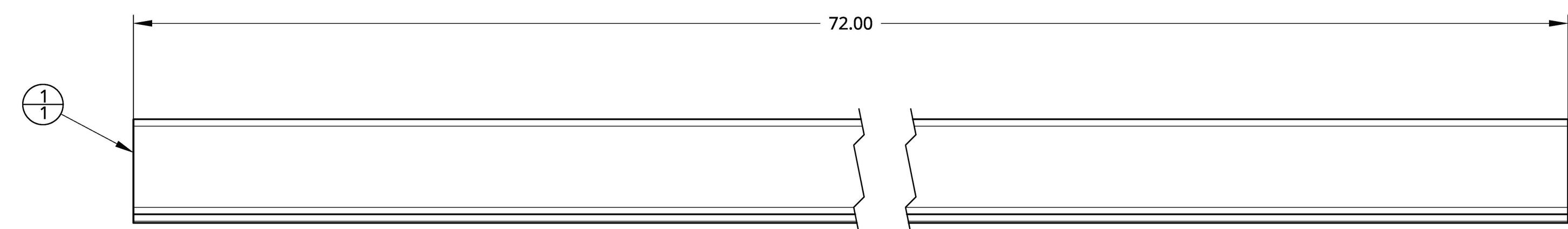
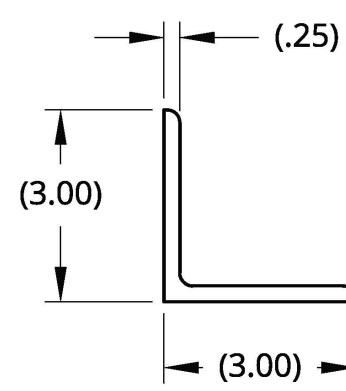
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = $\pm .01$ ANGULAR = $\pm 1^\circ$.XXX = $\pm .005$	VEND	NAME	DATE	 FIRST ROBOTICS COMPETITION
	DRAWN	JO	12/17/2025	
DO NOT SCALE DRAWING	MATERIAL	3" X 3" X 1/4" 6061 ALUMINUM PIPE	TITLE 3" X 3" X 1/4" 6061 ALUMINUM PIPE	
BREAK ALL SHARP EDGES AND REMOVE BURRS				
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.				
SIZE	DWG NO.	FE-00005-01	REV.	
SCALE	1:3		SHEET	2 of 5

D

D

C

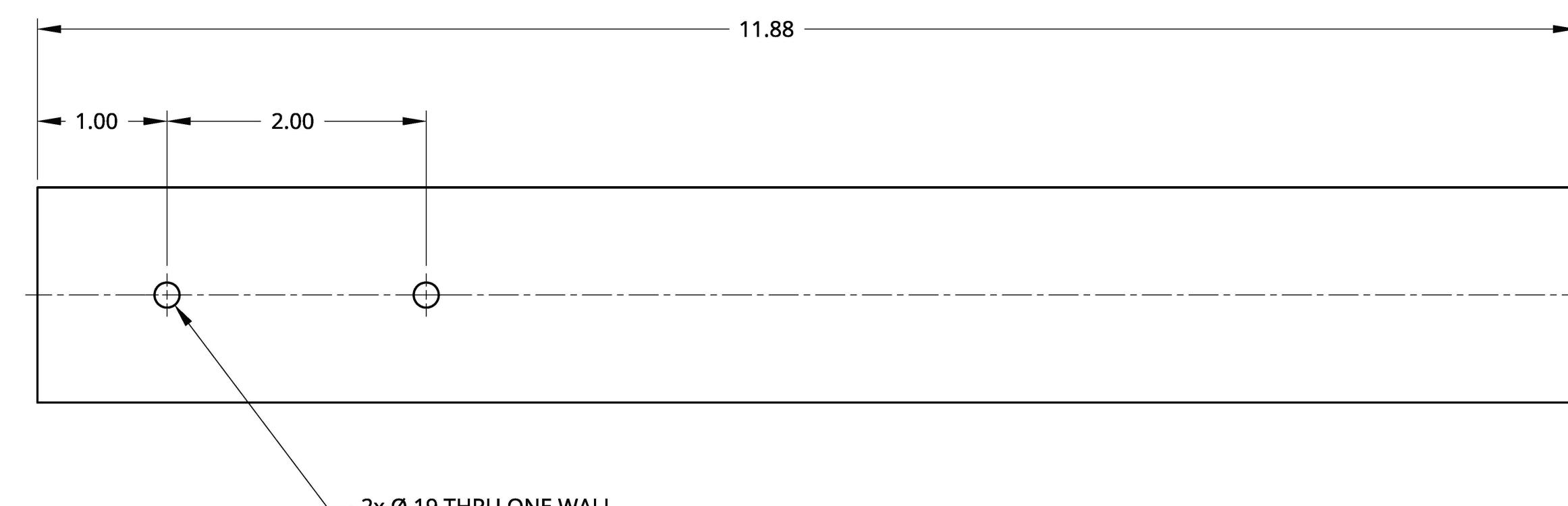
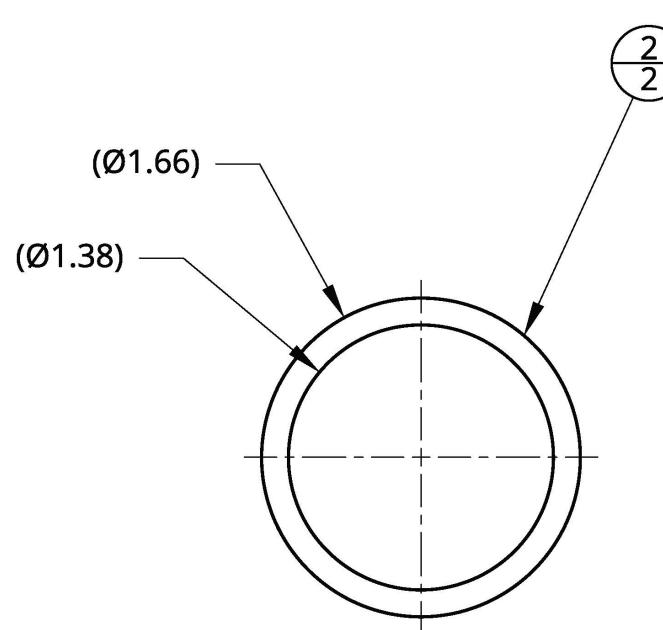
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES
.XX = ±.01 ANGULAR = ± 1°
.XXX = ±.005

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

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.

VEND	NAME	DATE
DRAWN	JO	12/17/2025

MATERIAL

1-1/4" SCHEDULE
40 6061
ALUMINUM PIPE

SIZE

DWG NO.

SCALE

REV.

FIRST
ROBOTICS
COMPETITION

1-1/4" SCHEDULE 40 6061
ALUMINUM PIPE

FE-00005-02

1:1

3 of 5

D

D

C

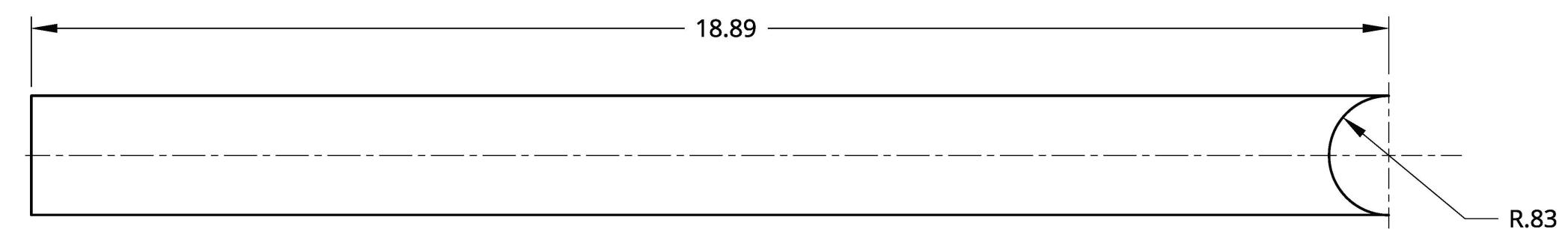
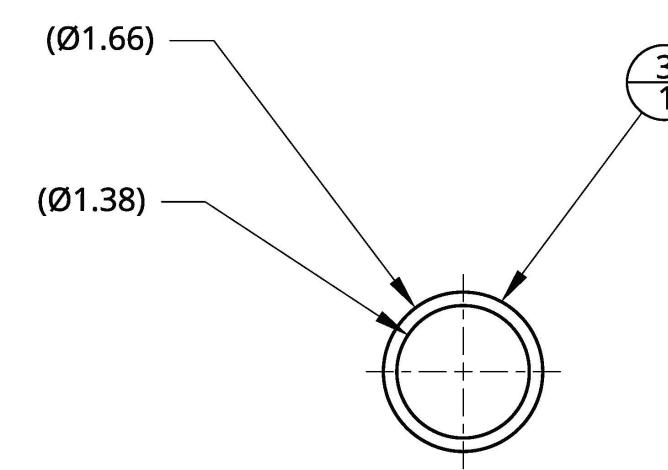
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND	NAME	DATE	 FIRST ROBOTICS COMPETITION
	DRAWN	JO	12/17/2025	
DO NOT SCALE DRAWING	MATERIAL 1-1/4" SCHEDULE 40 6061 ALUMINUM PIPE		TITLE	1-1/4" SCHEDULE 40 6061 ALUMINUM PIPE
BREAK ALL SHARP EDGES AND REMOVE BURRS			SIZE	C DWG NO. FE-00005-03
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.			REV.	
SCALE	1:2	SHEET	4 of 5	

D

D

C

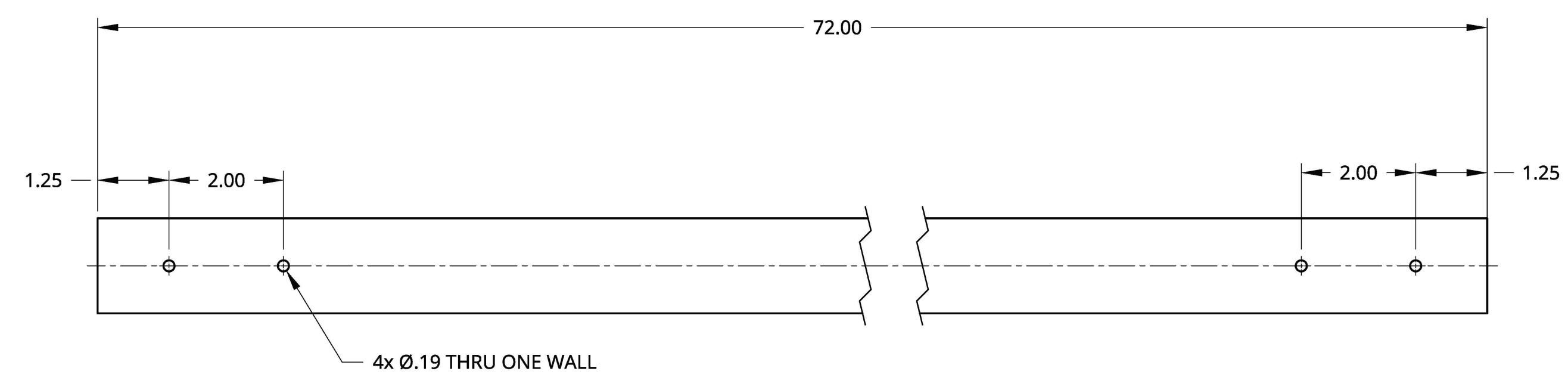
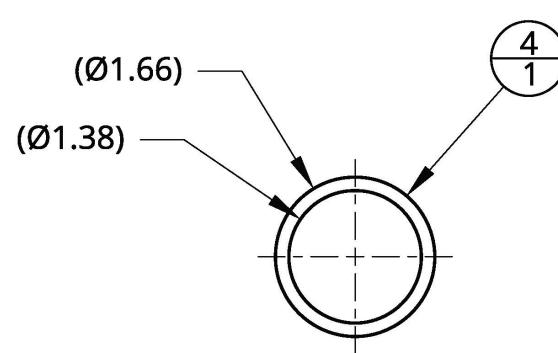
C

B

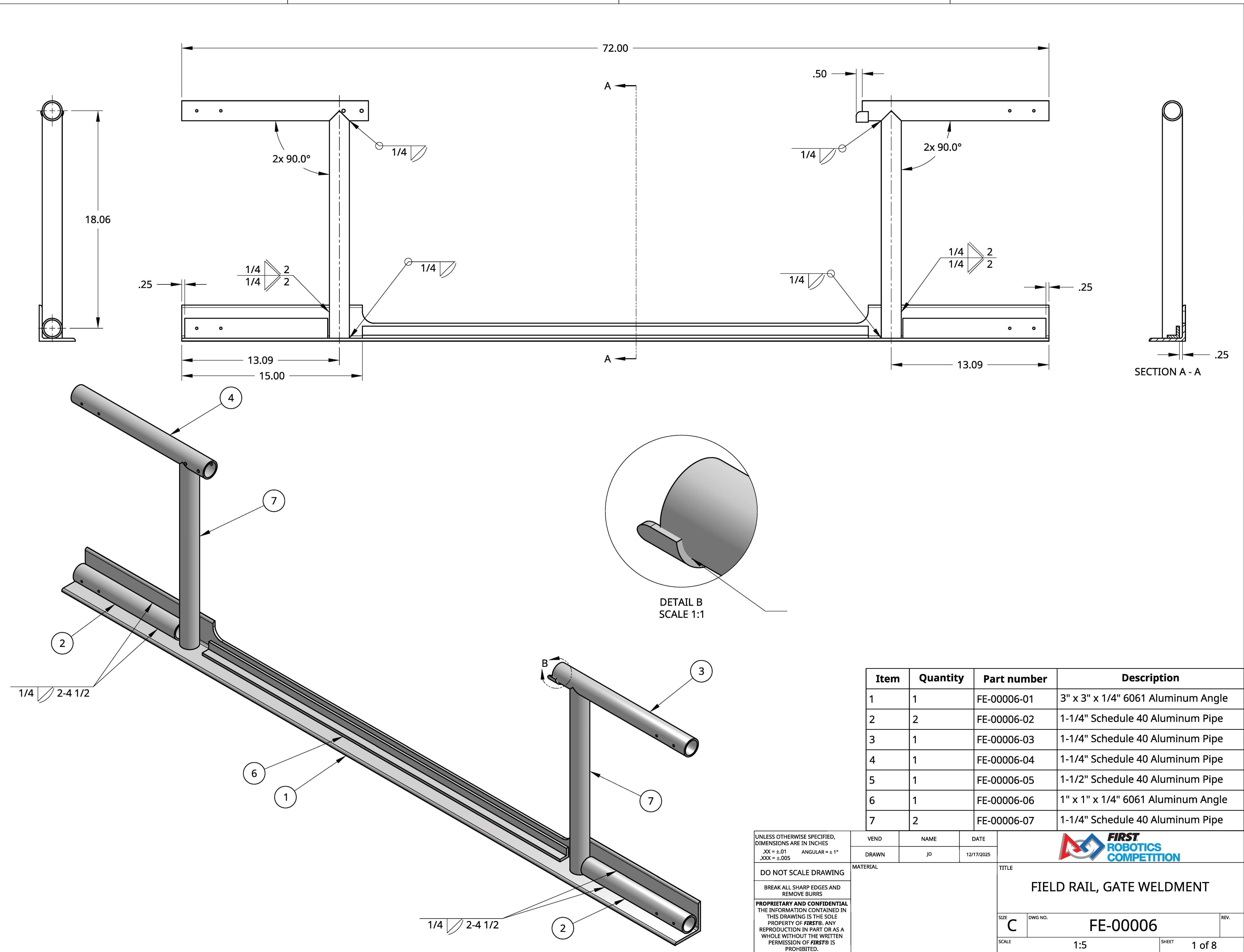
B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND	NAME	DATE	 FIRST ROBOTICS COMPETITION
	DRAWN	JO	12/17/2025	
DO NOT SCALE DRAWING	MATERIAL 1-1/4" SCHEDULE 40 6061 ALUMINUM PIPE	TITLE 1-1/4" SCHEDULE 40 6061 ALUMINUM PIPE	SIZE C DWG NO. FE-00005-04	REV. 1:2 SHEET 5 of 5
BREAK ALL SHARP EDGES AND REMOVE BURRS				
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.				



D

D

C

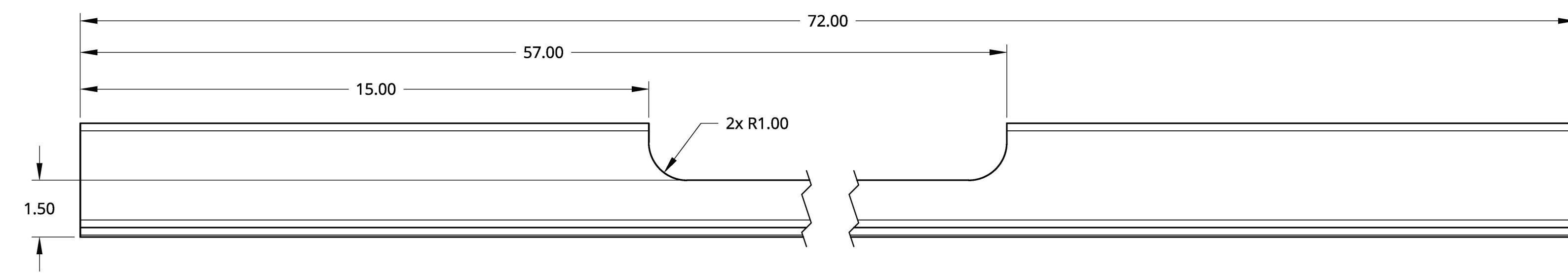
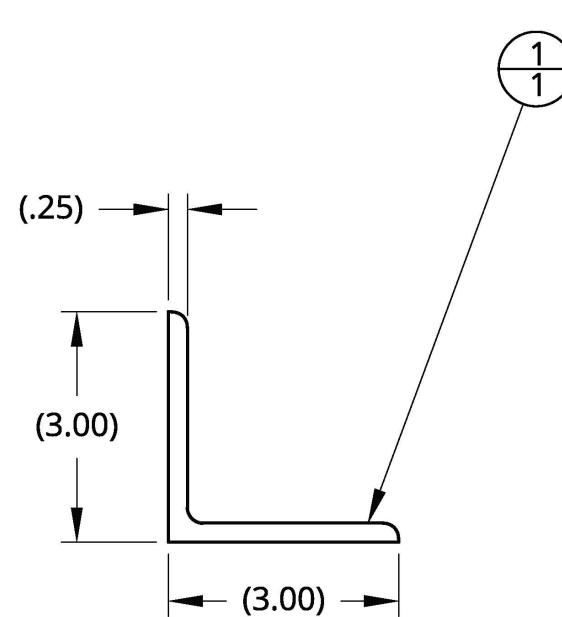
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005				VEND	NAME	DATE	 3" X 3" X 1/4" 6061 ALUMINUM ANGLE		
DRAWN	JO	12/17/2025							
DO NOT SCALE DRAWING BREAK ALL SHARP EDGES AND REMOVE BURRS 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.							TITLE		
3" X 3" X 1/4" 6061 ALUMINUM ANGLE							SIZE	DWG NO.	
C	FE-00006-01	REV.	1:2.5	SHEET	2 of 8				

D

D

C

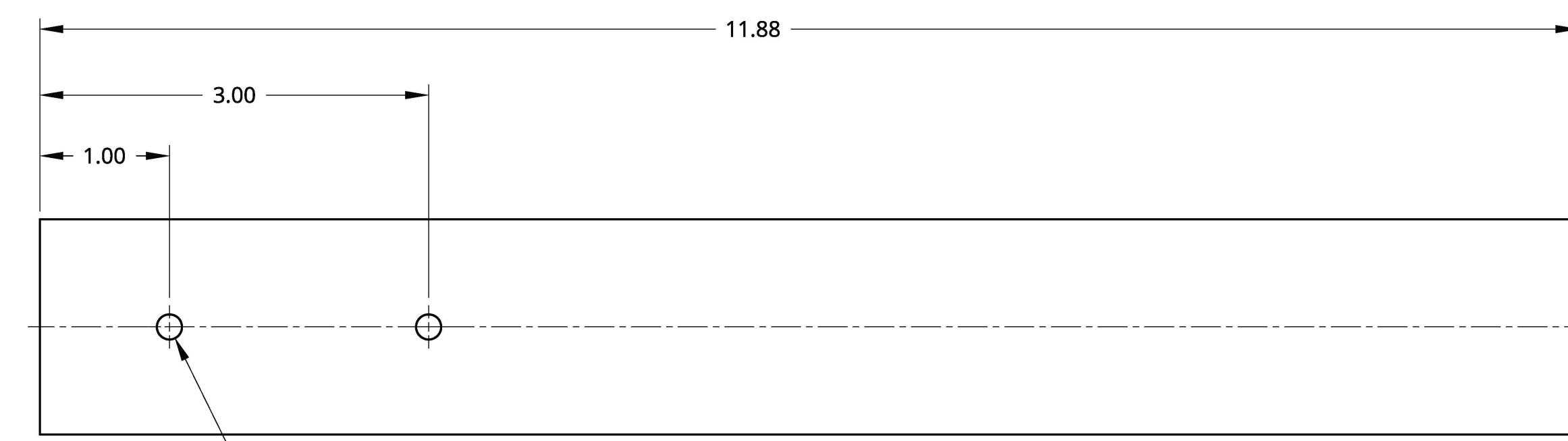
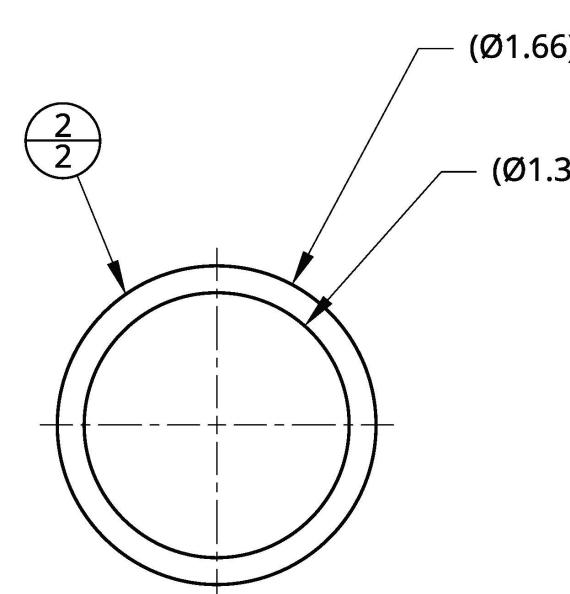
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES XX = ±.01 ANGULAR = ± 1° XXX = ±.005	VEND	NAME	DATE	 FIRST ROBOTICS COMPETITION
	DRAWN	JO	12/17/2025	
DO NOT SCALE DRAWING	MATERIAL 1-1/4" SCHEDULE 40 ALUMINUM PIPE	TITLE 1-1/4" SCHEDULE 40 ALUMINUM PIPE	SIZE	DWG NO.
BREAK ALL SHARP EDGES AND REMOVE BURRS			C	FE-00006-02
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.			REV.	
SCALE	1:1	SHEET	3 of 8	

D

D

C

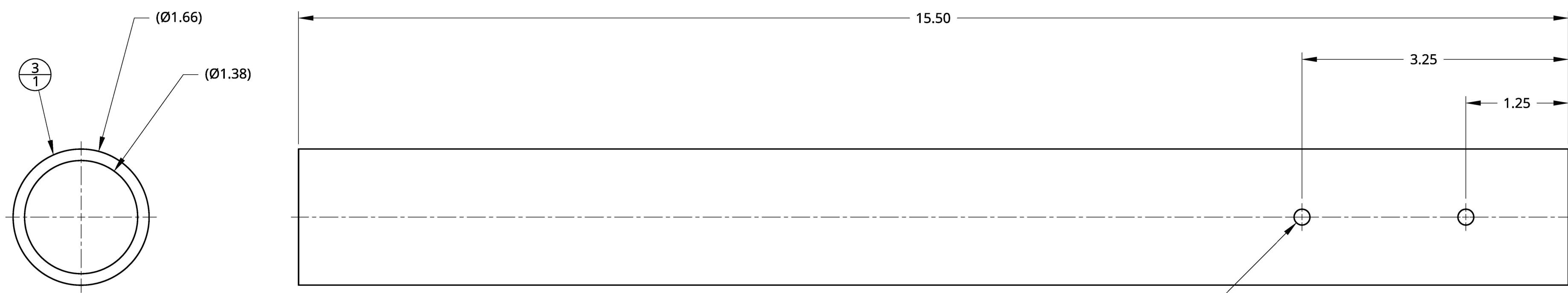
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES XX = ±.01 ANGULAR = ± 1° XXX = ±.005	VEND	NAME	DATE	 FIRST ROBOTICS COMPETITION
	DRAWN	JO	12/17/2025	
DO NOT SCALE DRAWING	MATERIAL 1-1/4" SCHEDULE 40 ALUMINUM PIPE	TITLE 1-1/4" SCHEDULE 40 ALUMINUM PIPE	SIZE	DWG NO.
BREAK ALL SHARP EDGES AND REMOVE BURRS			C	FE-00006-03
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.			REV.	
SCALE	1:1	SHEET	4 of 8	

4

3

2

1

D

D

C

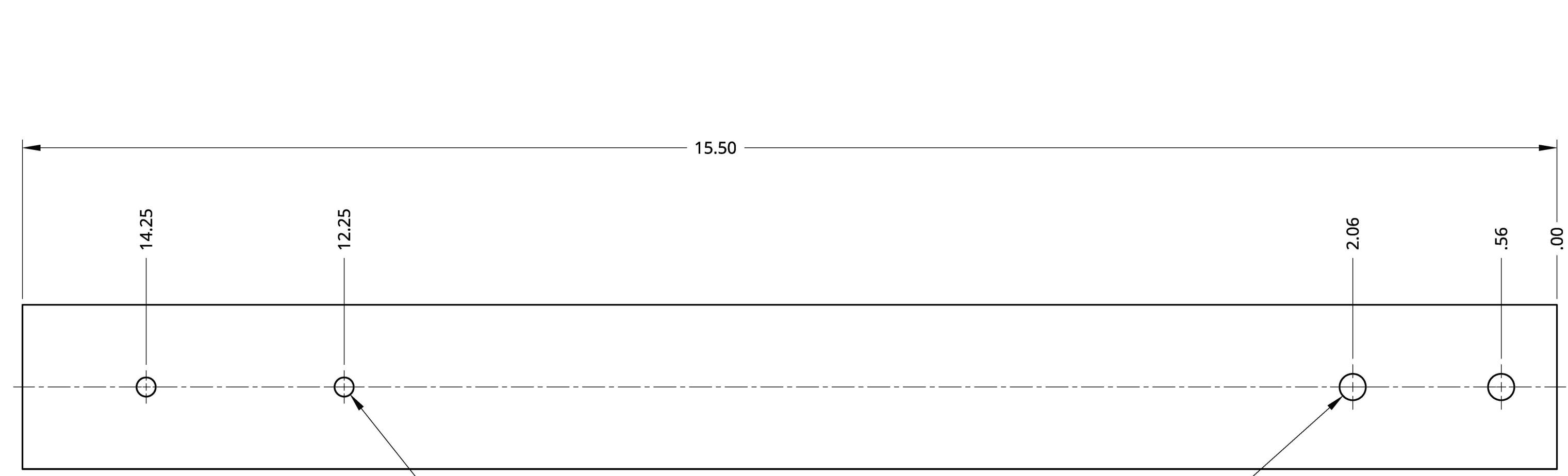
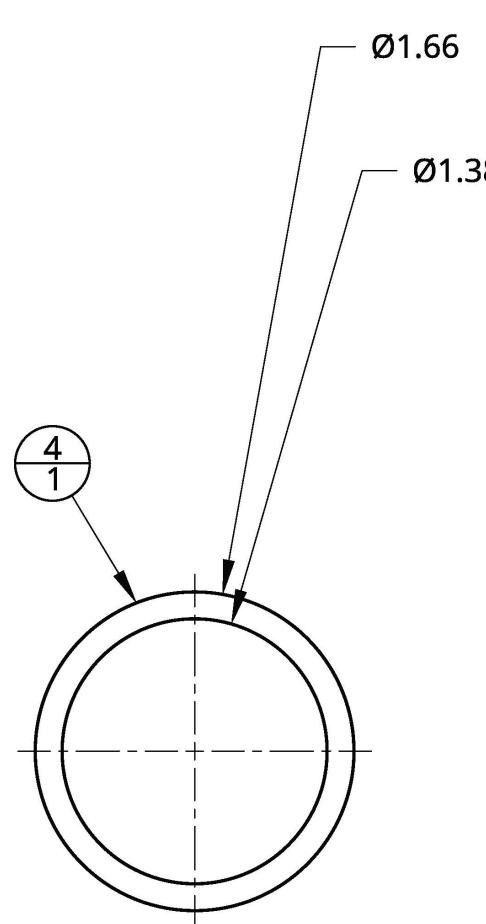
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND	NAME	DATE	 FIRST ROBOTICS COMPETITION
	DRAWN	JO	12/17/2025	
DO NOT SCALE DRAWING	MATERIAL 1-1/4" SCHEDULE 40 ALUMINUM PIPE		TITLE	1-1/4" SCHEDULE 40 ALUMINUM PIPE
BREAK ALL SHARP EDGES AND REMOVE BURRS			SIZE	C DWG NO. FE-00006-04
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.			REV.	
SCALE	1:1	SHEET	5 of 8	

4

3

2

1

D

D

C

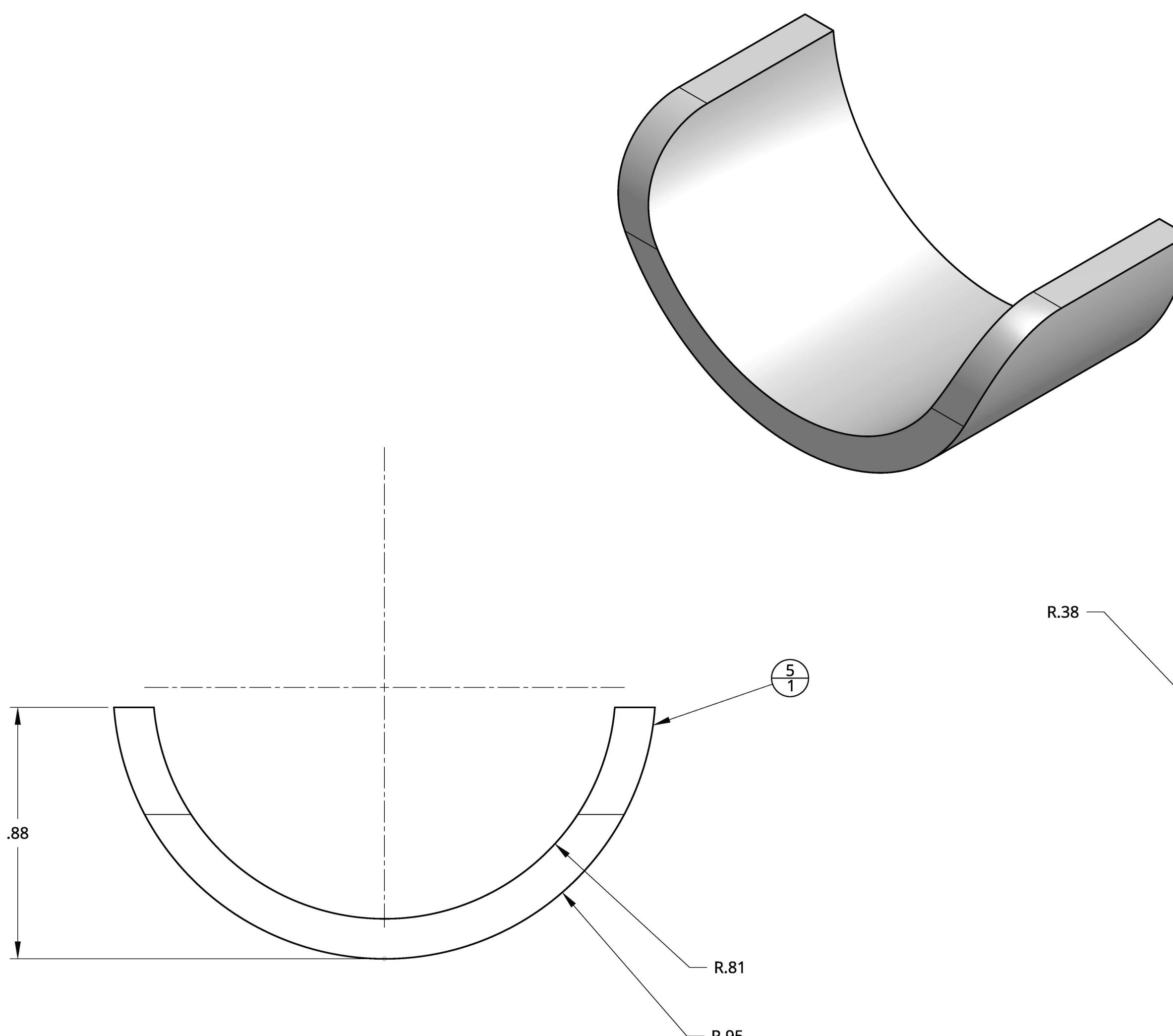
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES
.0X = $\pm .01$ ANGULAR = $\pm 1^\circ$
.00X = $\pm .005$

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

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.

VEND NAME DATE

DRAWN JO 12/17/2025

MATERIAL

1-1/2" SCHEDULE
40 ALUMINUM
PIPE1-1/2" SCHEDULE 40 ALUMINUM
PIPE

FE-00006-05

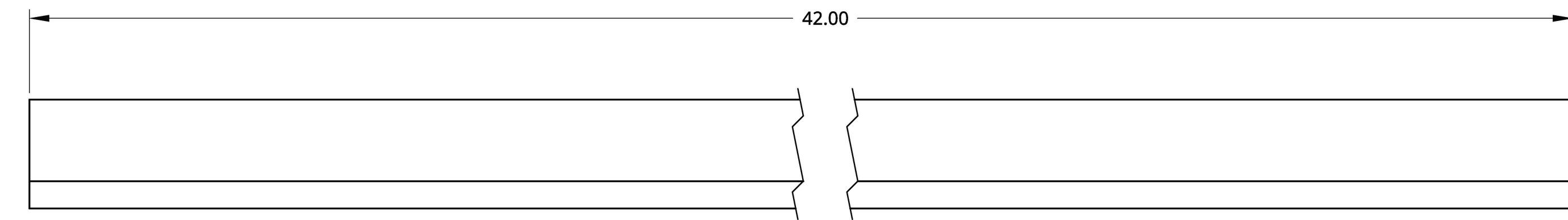
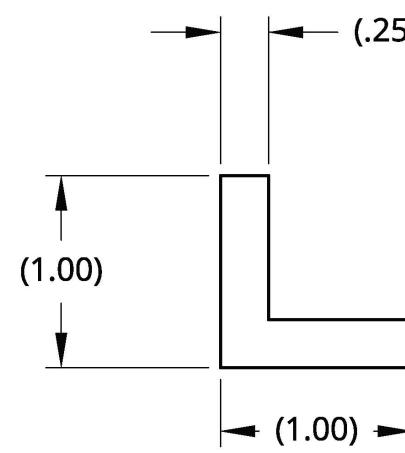
REV. 3:1 SHEET 6 of 8

D

D

C

C



B

B

A

A

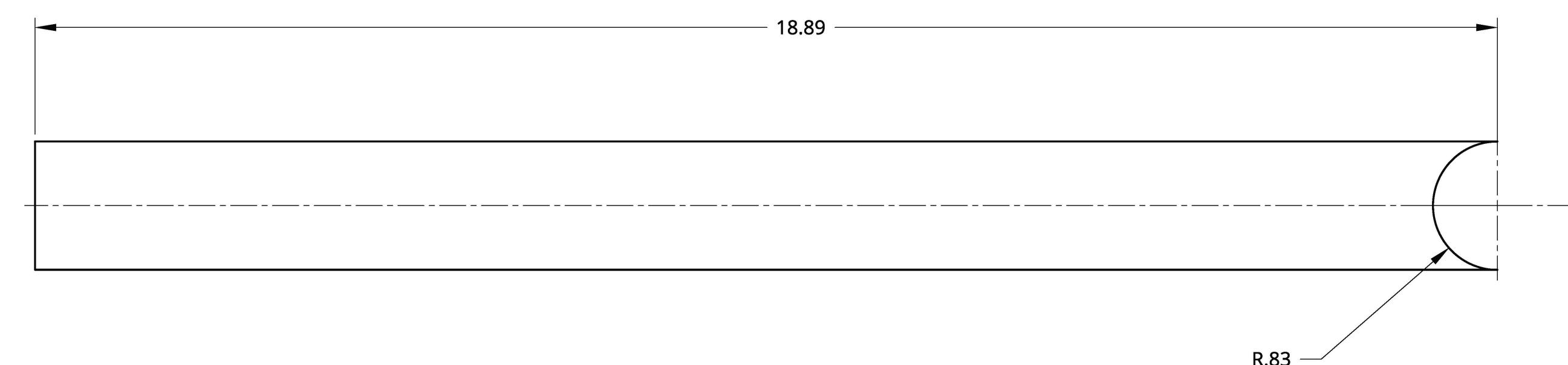
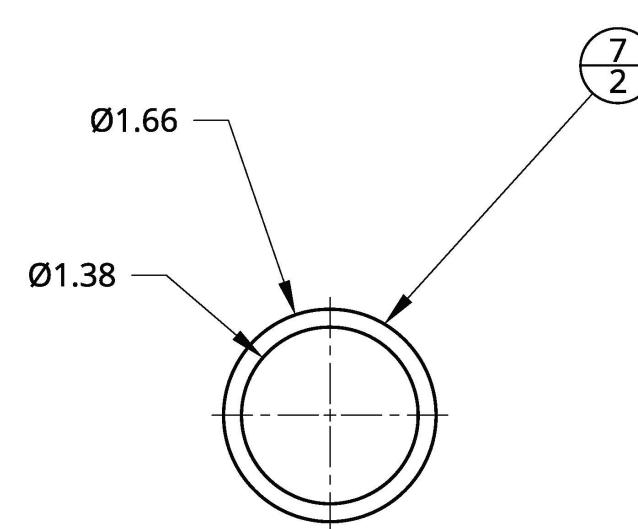
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = $\pm .01$ ANGULAR = $\pm 1^\circ$.XXX = $\pm .005$	VEND	NAME	DATE	 FIRST ROBOTICS COMPETITION
	DRAWN	JO	12/17/2025	
DO NOT SCALE DRAWING				
BREAK ALL SHARP EDGES AND REMOVE BURRS				
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST®. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED.	MATERIAL			
	1" X 1" X 1/4" 6061 ALUMINUM ANGLE			
	SIZE	DWG NO.		
	C	FE-00006-06	REV.	
	SCALE	1:1		SHEET 7 of 8

D

D

C

C



B

B

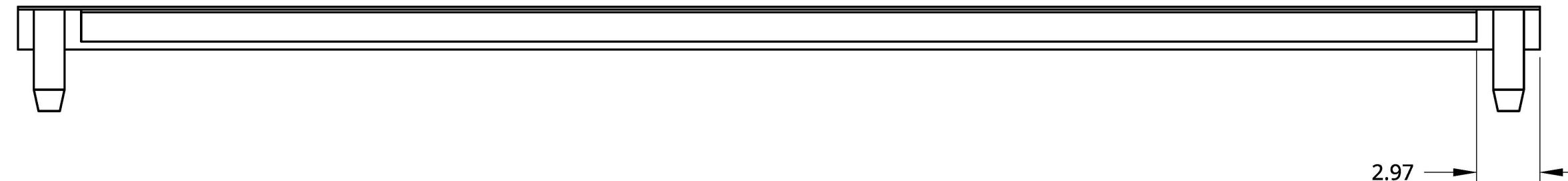
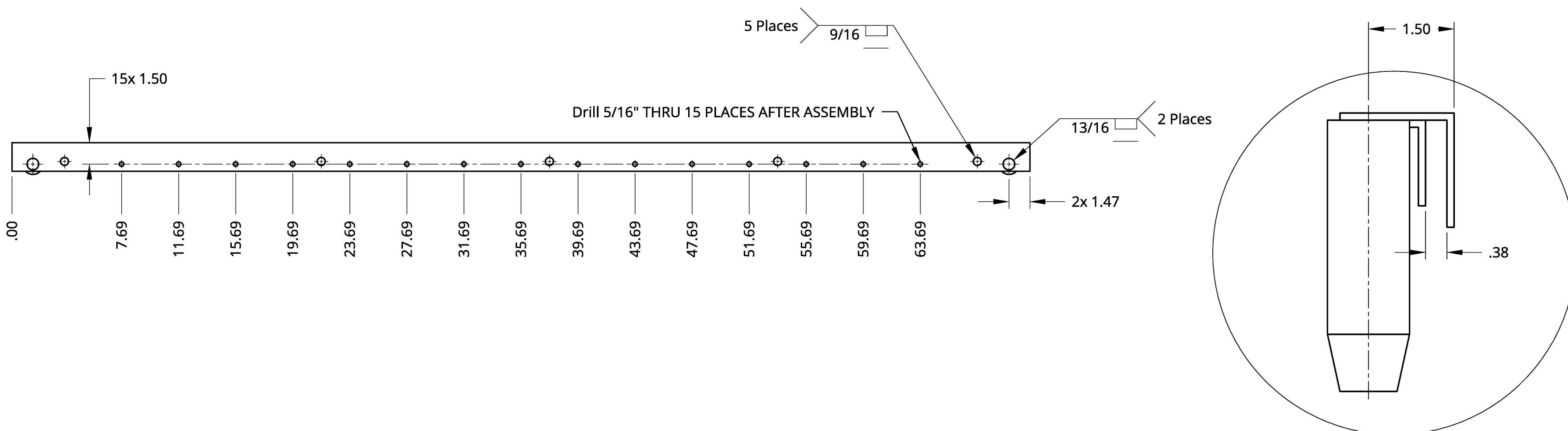
A

A

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND	NAME	DATE	 FIRST ROBOTICS COMPETITION
	DRAWN	JO	12/17/2025	
DO NOT SCALE DRAWING	MATERIAL 1-1/4" SCHEDULE 40 ALUMINUM PIPE	TITLE 1-1/4" SCHEDULE 40 ALUMINUM PIPE	SIZE	DWG NO.
BREAK ALL SHARP EDGES AND REMOVE BURRS			C	FE-00006-07
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.			REV.	
SCALE	2:3	SHEET	8 of 8	

D

D



Item	Quantity	Part number	Description
1	1	FE-00007-01	2" x 2" x 1/8" Square Corner 6063 Aluminum Angle
2	1	FE-00007-02	1-1/2" x 1-1/2" x 1/8" 6061 Aluminum Angle
3	2	FE-00007-03	1-7/16" 6061 Aluminum Round Stock

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND	NAME	DATE	FIRST ROBOTICS COMPETITION	
DO NOT SCALE DRAWING	DRAWN	JO	12/18/2025		
BREAK ALL SHARP EDGES AND REMOVE BURRS	MATERIAL				
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.	TITLE				
SIZE C	DWG NO.	FE-00007	REV.		
SCALE 1:6	SHEET	1 of 4			

D

D

C

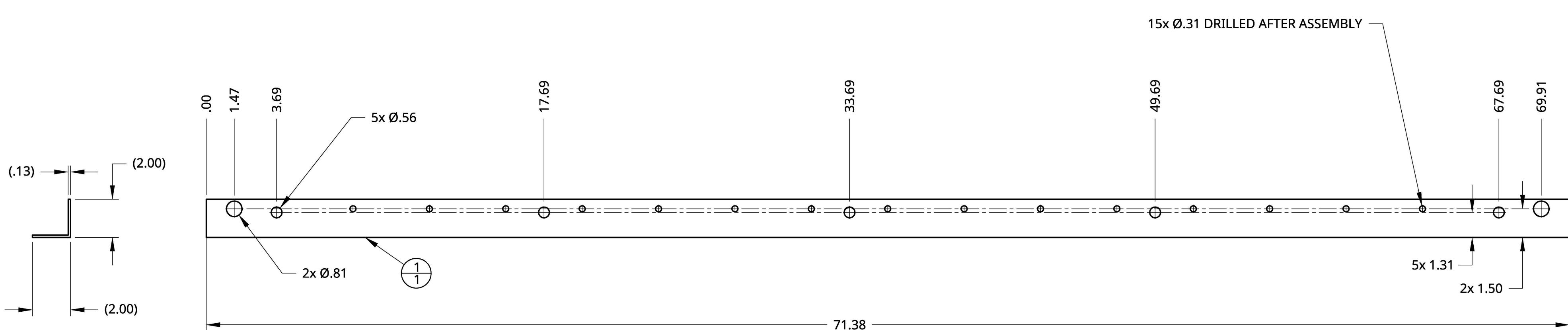
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND DRAWN	NAME JO	DATE 12/18/2025	FIRST ROBOTICS COMPETITION			
DO NOT SCALE DRAWING	MATERIAL						
BREAK ALL SHARP EDGES AND REMOVE BURRS	2" X 2" X 1/8" SQUARE CORNER 6063 ALUMINUM ANGLE						
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.	SIZE C	DWG NO. FE-00007-01	REV.				
SCALE 1:4	SHEET 2 of 4						

D

D

C

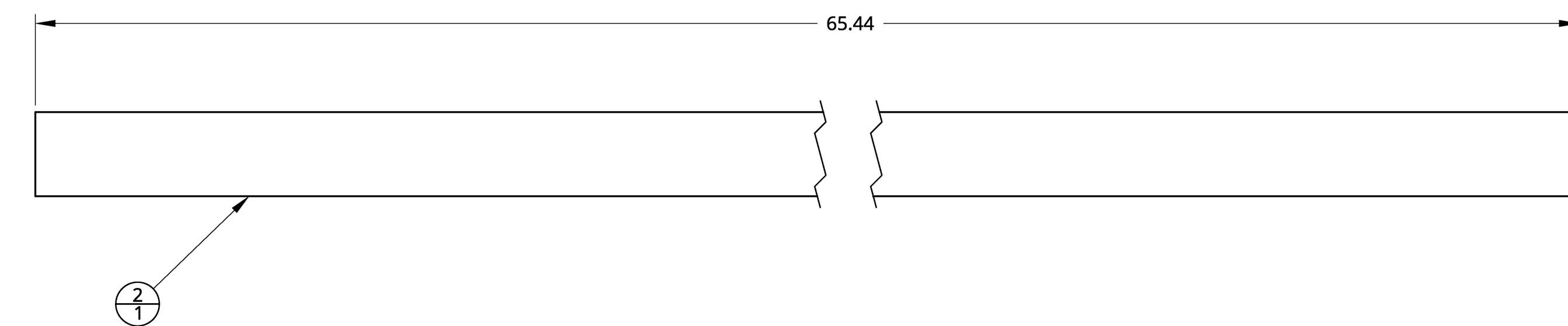
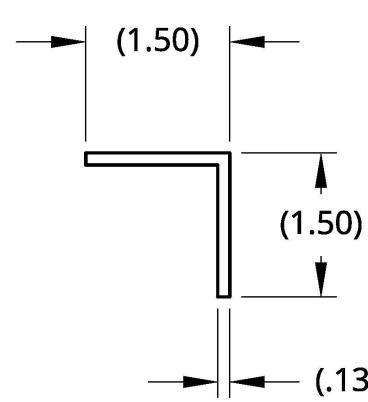
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = $\pm .01$ ANGULAR = $\pm 1^\circ$.XXX = $\pm .005$			VEND	NAME	DATE	FIRST ROBOTICS COMPETITION		
			DRAWN	JO	12/18/2025			
DO NOT SCALE DRAWING							TITLE	
BREAK ALL SHARP EDGES AND REMOVE BURRS							1-1/2" X 1-1/2" X 1/8" 6061 ALUMINUM ANGLE	
MATERIAL	SIZE	DWG NO.	REV.				SCALE	SHEET
1-1/2" X 1-1/2" X 1/8" 6061 ALUMINUM ANGLE	C	FE-00007-02		1:2	3 of 4			

D

D

C

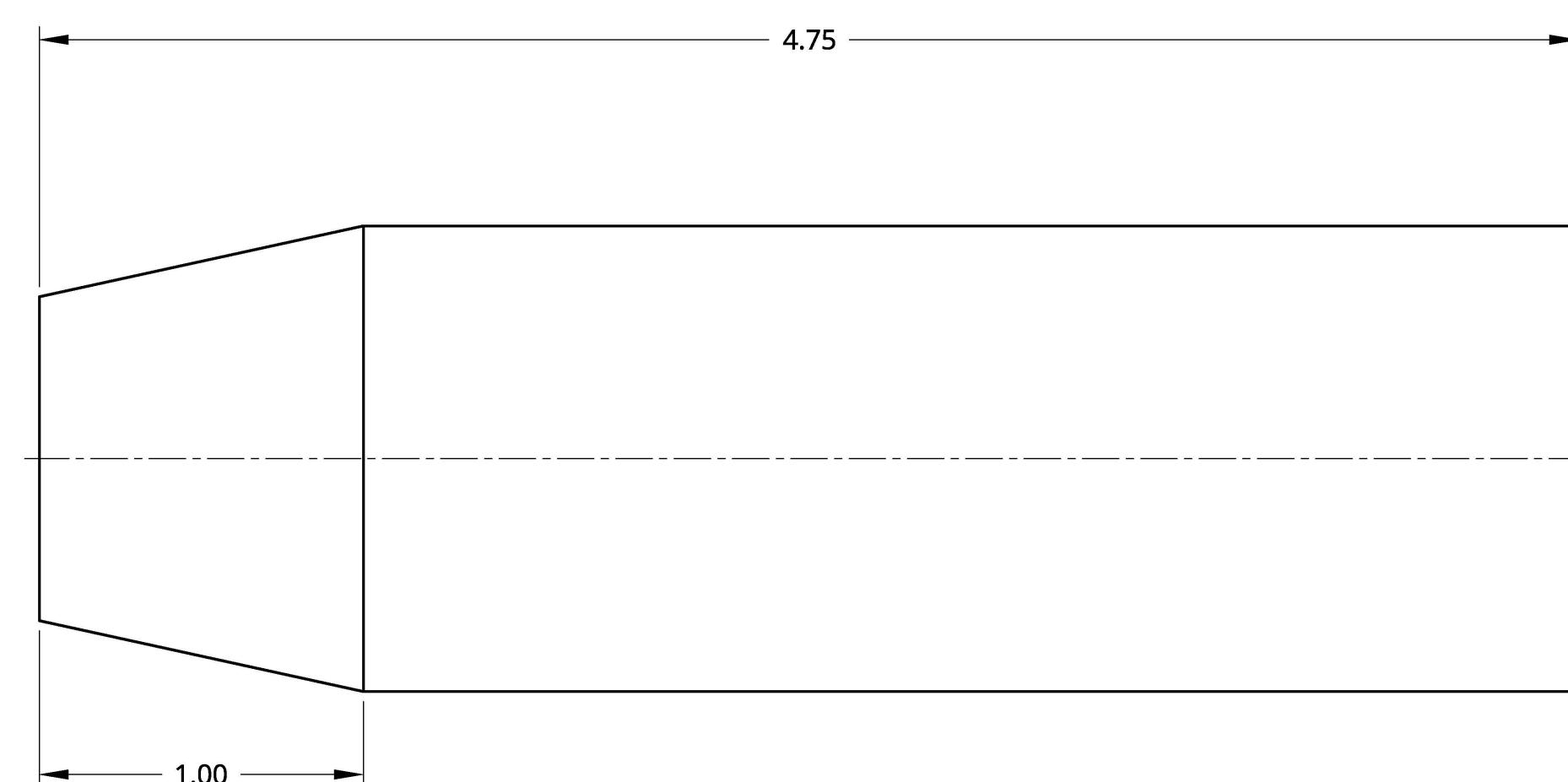
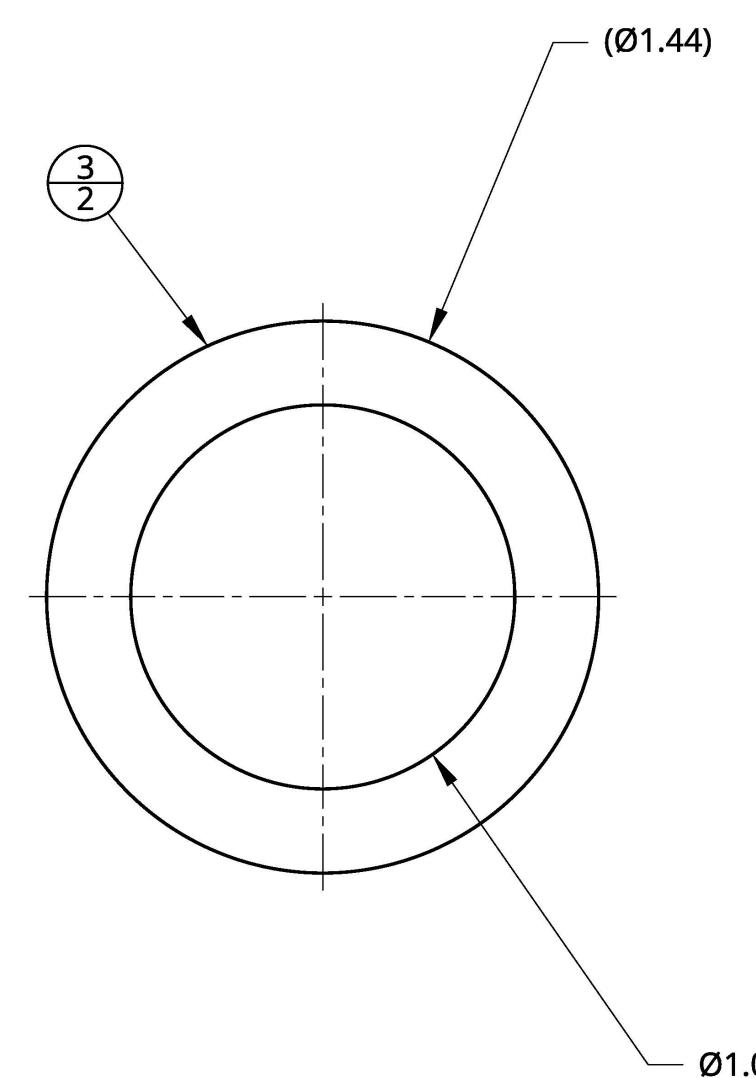
C

B

B

A

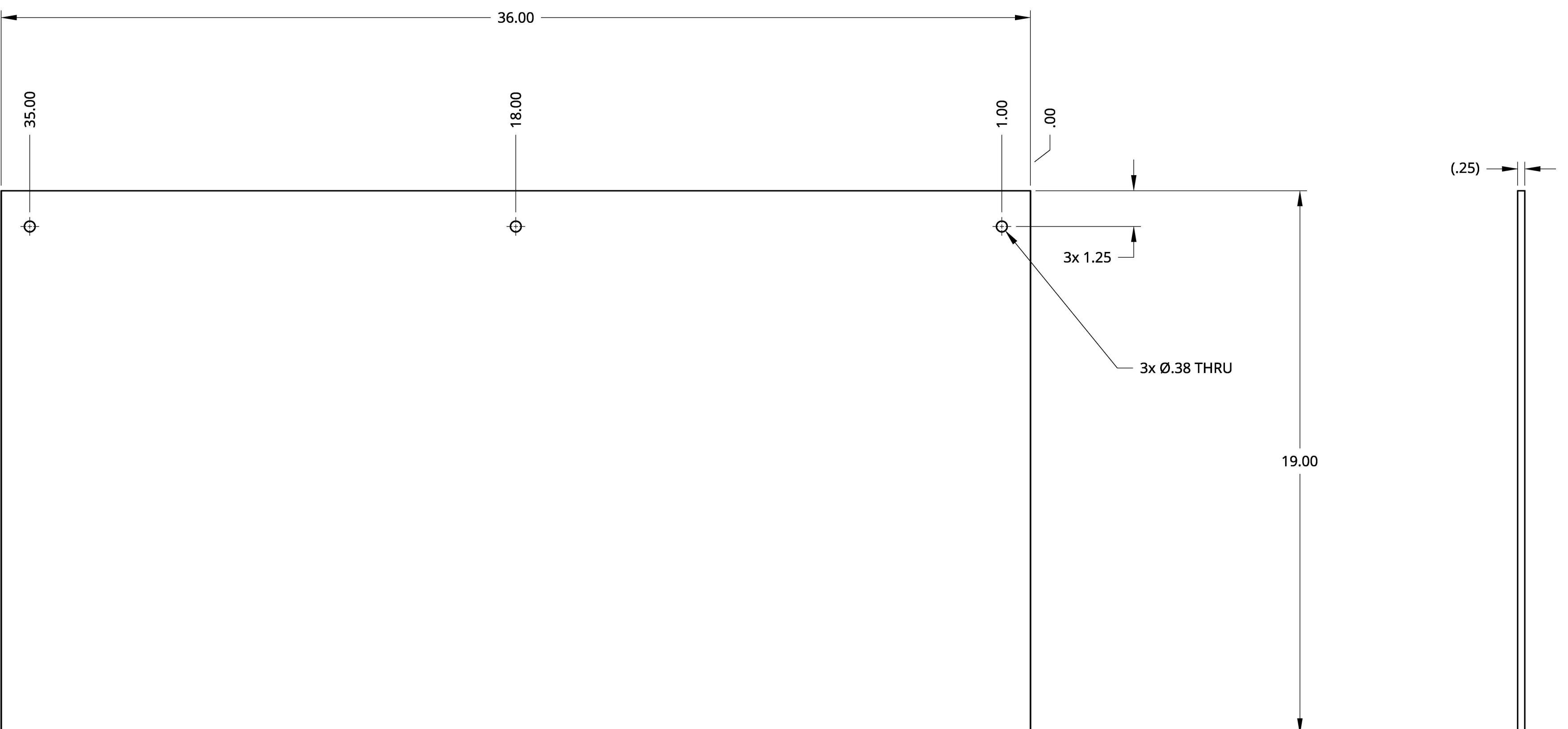
A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND DRAWN	NAME JO	DATE 12/18/2025	FIRST ROBOTICS COMPETITION	
DO NOT SCALE DRAWING	MATERIAL 1-7/16" 6061 ALUMINUM ROUND STOCK		TITLE 1-7/16" 6061 ALUMINUM ROUND STOCK		
BREAK ALL SHARP EDGES AND REMOVE BURRS			SIZE C	DWG NO. FE-00007-03	REV.
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.	SCALE 2:1		SHEET 4 of 4		

D

D



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND DRAWN	NAME JO	DATE 12/16/2025	FIRST ROBOTICS COMPETITION
DO NOT SCALE DRAWING	MATERIAL		TITLE	
BREAK ALL SHARP EDGES AND REMOVE BURRS	1/4" POLYCARBONATE, CLEAR		FIELD PLASTIC "A"	
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.	SIZE C	DWG NO. FE-00008	REV.	
SCALE 1:3	SHEET 1 of 1			

D

D

C

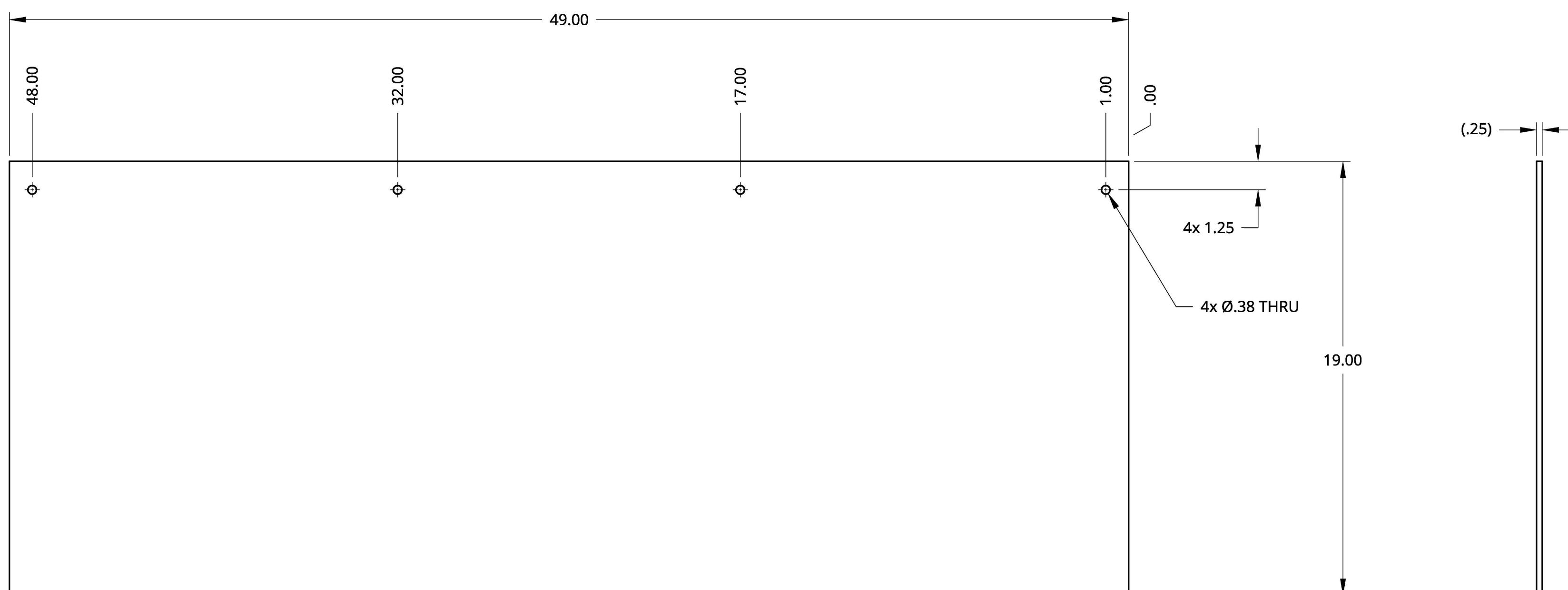
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005		VEND	NAME	DATE	 FIRST ROBOTICS COMPETITION								
DRAWN	JO	12/16/2025											
DO NOT SCALE DRAWING		MATERIAL 1/4" POLYCARBONATE, CLEAR											
BREAK ALL SHARP EDGES AND REMOVE BURRS													
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.													
SIZE	DWG NO.	FE-00009	REV.										
SCALE	1:4	SHEET	1 of 1										

D

D

C

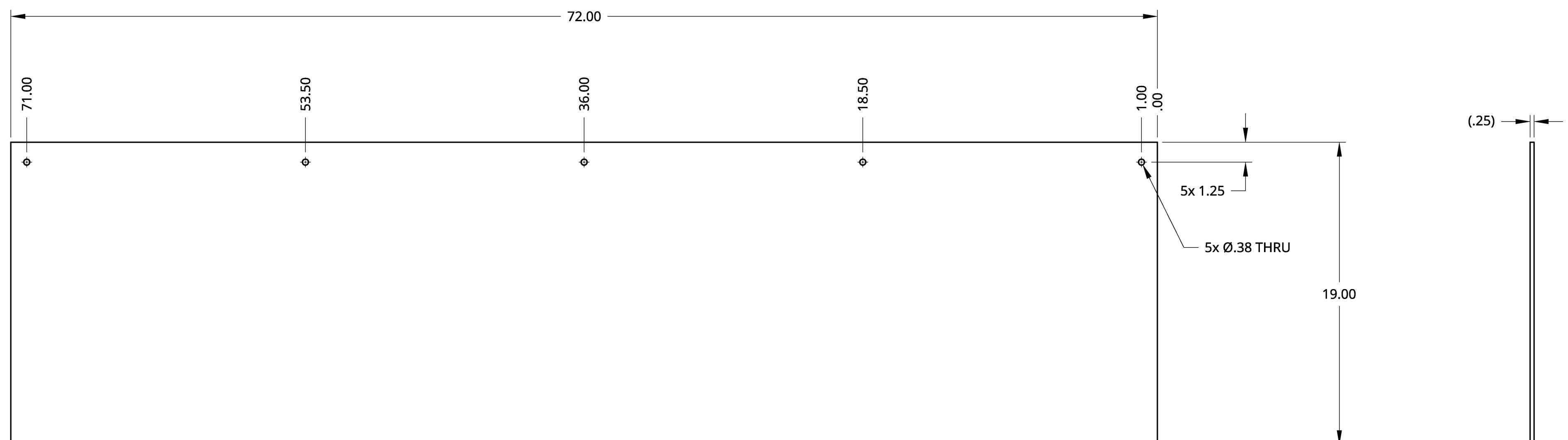
C

B

B

A

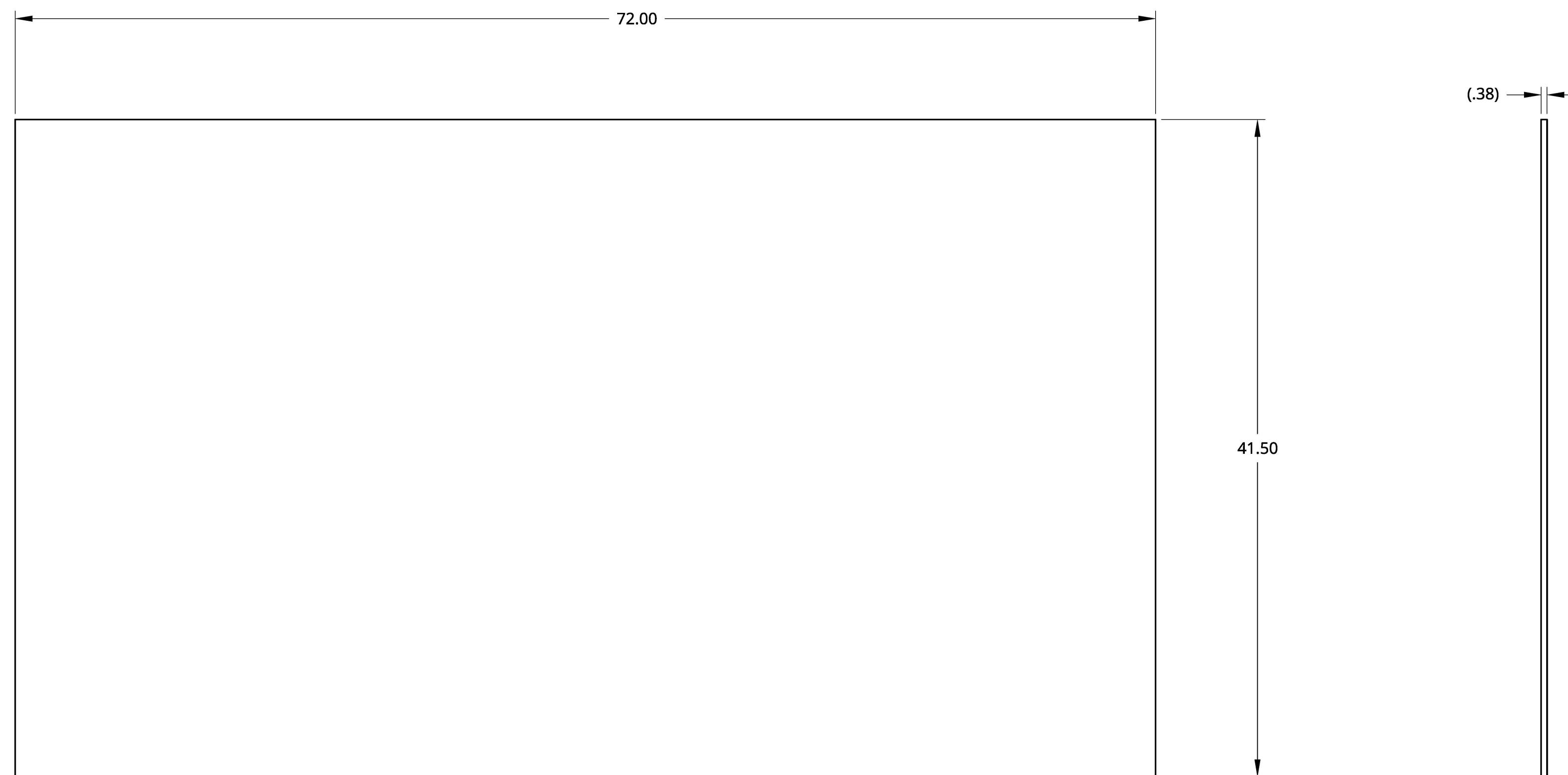
A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND DRAWN	NAME JO	DATE 12/16/2025	FIRST ROBOTICS COMPETITION
DO NOT SCALE DRAWING	MATERIAL 1/4" POLYCARBONATE, CLEAR	TITLE FIELD PLASTIC "C"		
BREAK ALL SHARP EDGES AND REMOVE BURRS			SIZE C	DWG NO. FE-00010
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.			REV.	
	SCALE 1:5	SHEET 1 of 1		

D

D



C

C

B

B

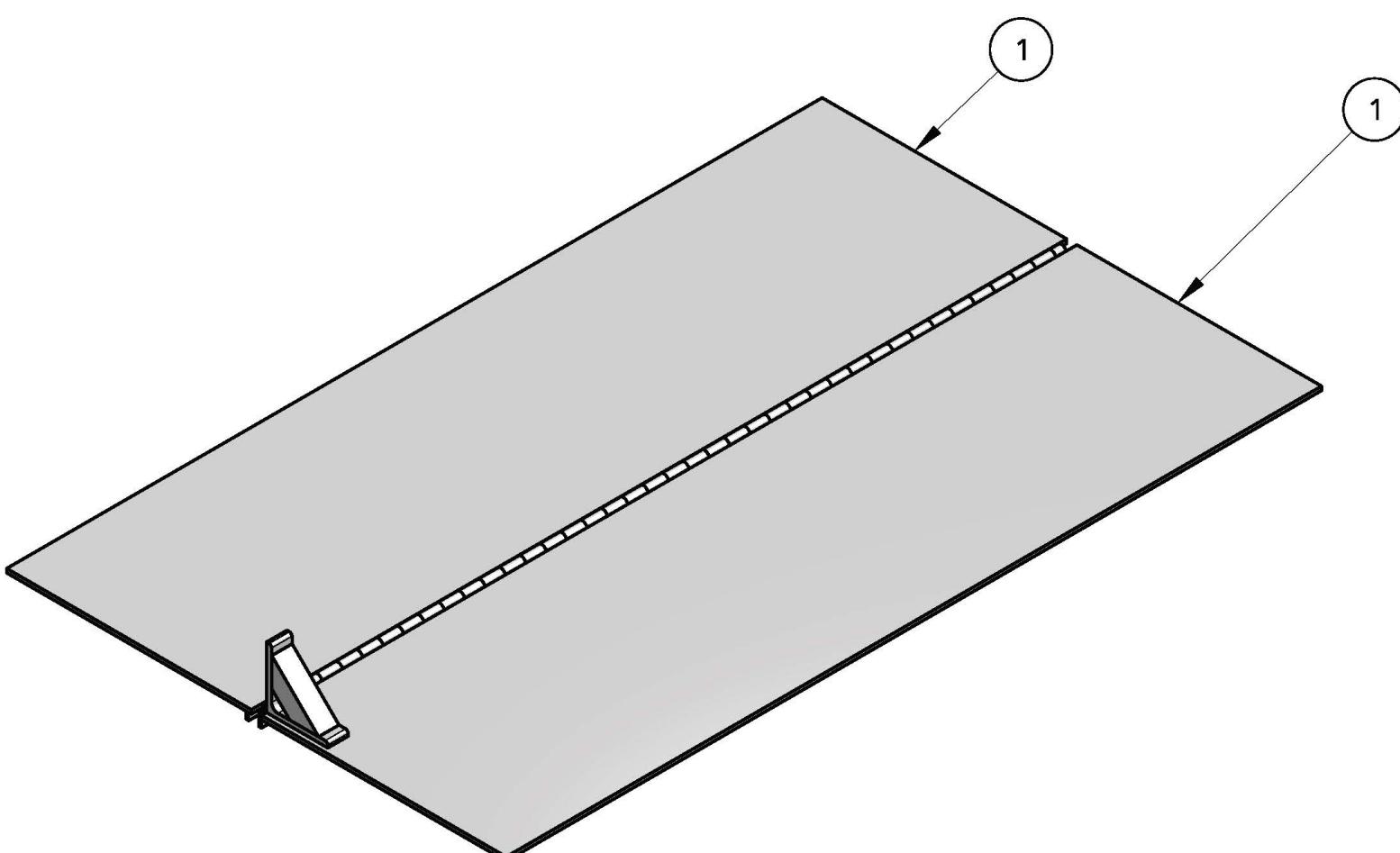
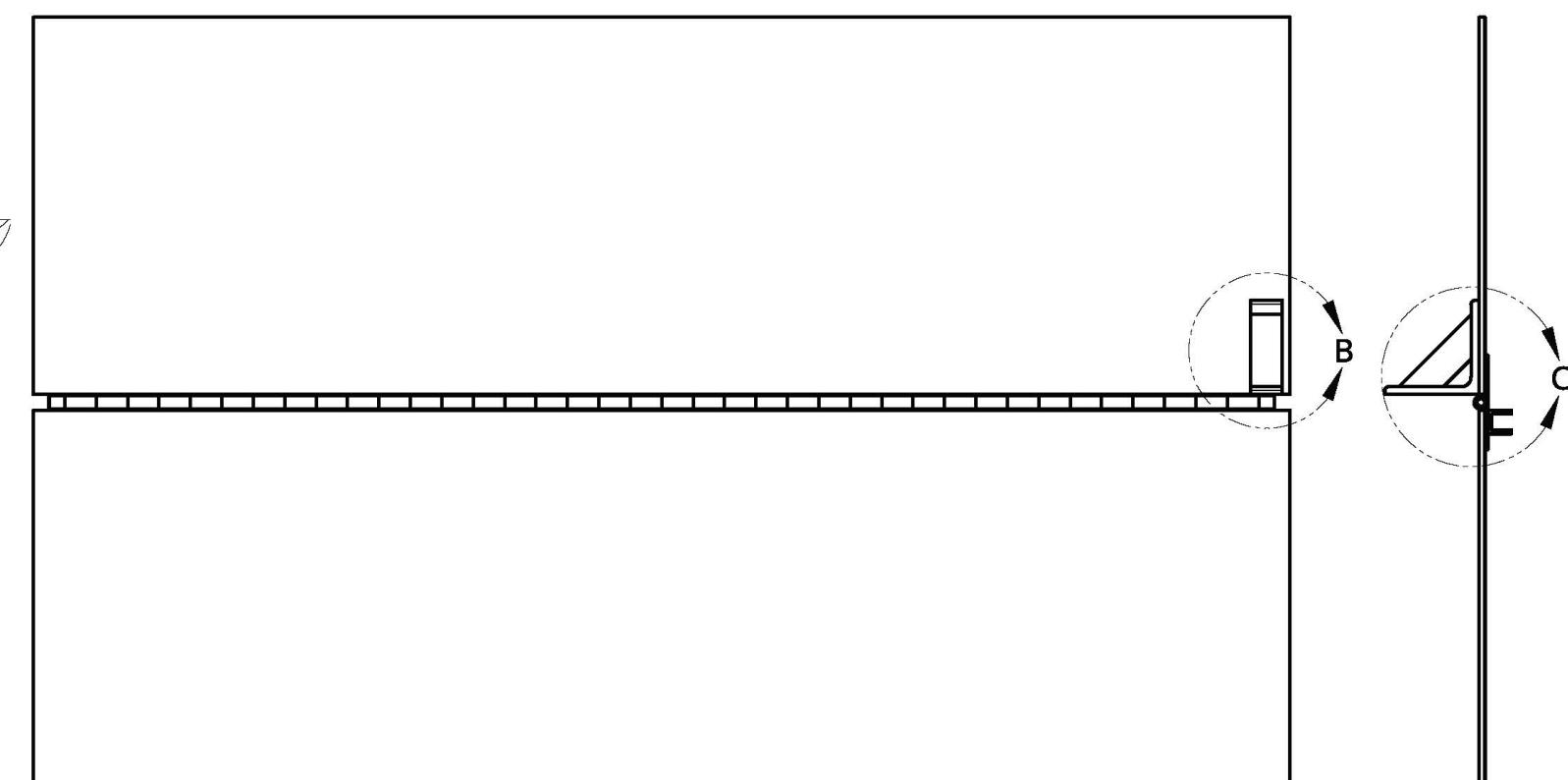
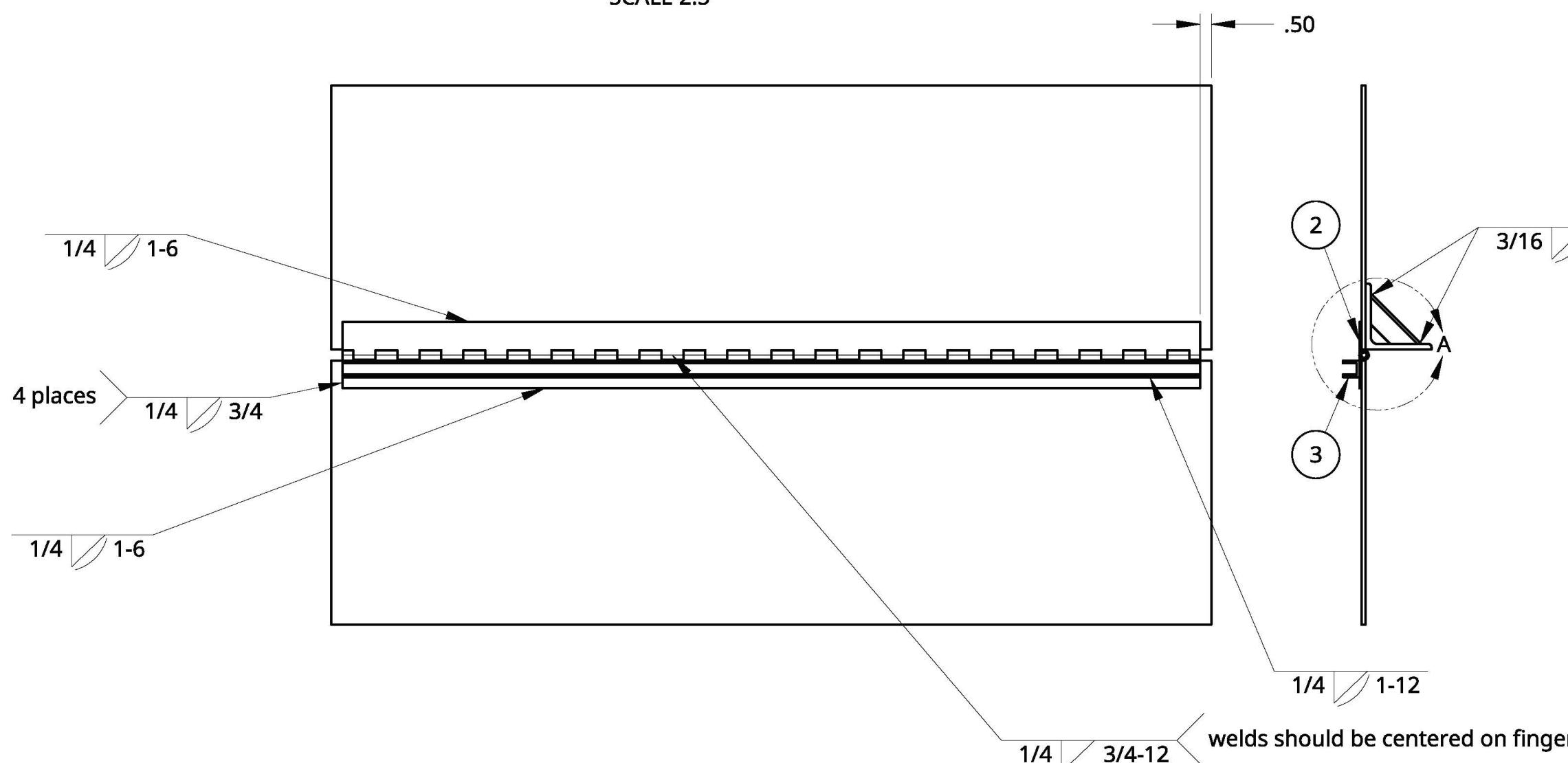
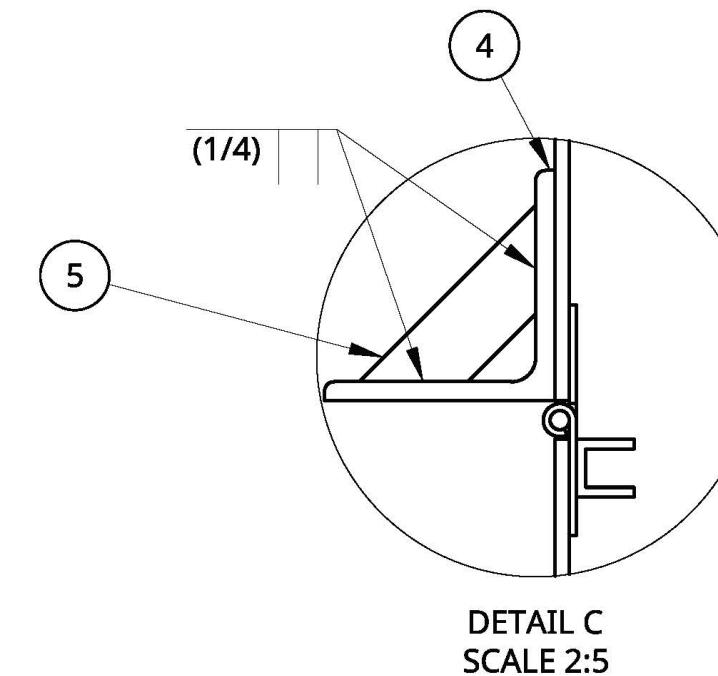
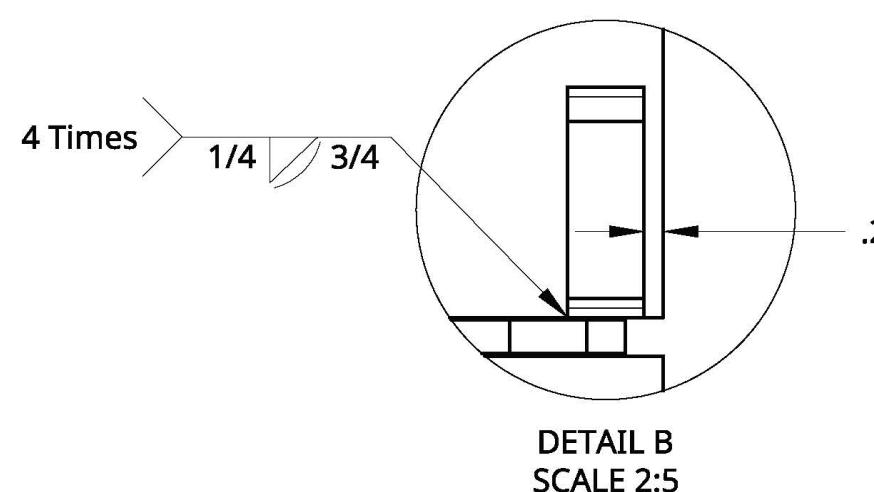
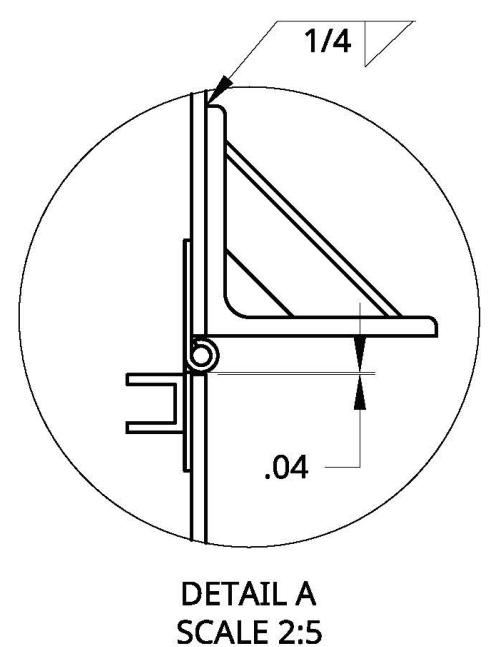
A

A

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND	NAME	DATE	 FIRST ROBOTICS COMPETITION
	DRAWN	JO	12/16/2025	
DO NOT SCALE DRAWING	MATERIAL 3/8" ACRYLIC CLEAR	TITLE DRIVER STATION ACRYLIC		
BREAK ALL SHARP EDGES AND REMOVE BURRS				
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.				
SIZE	DWG NO.	REV.		
C	FE-00012			
SCALE	1:6	SHEET	1 of 1	

D

D



Item	Quantity	Part number	Description
1	2	FE-00014-01	3/16" 3003 Aluminum Diamond Plate
2	1	FE-00014-02	Hinge, Aluminum 3" x .09", 1/4" Pin
3	1	FE-00014-03	3/4" x 3/4" x 1/8" 6061-T6 Aluminum 'U' Channel
4	1	FE-00014-04	3" x 3" x 1/4" 6061-T6 Aluminum Angle
5	1	FE-00014-05	1" x 1" x 1/8" 6061-T6 Aluminum Angle

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES
XX = ±.01 ANGULAR = ± 1°
XXX = ±.005

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

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.

VEND NAME DATE

DRAWN JO 12/22/2025

MATERIAL

TITLE

FIRST
ROBOTICS
COMPETITION

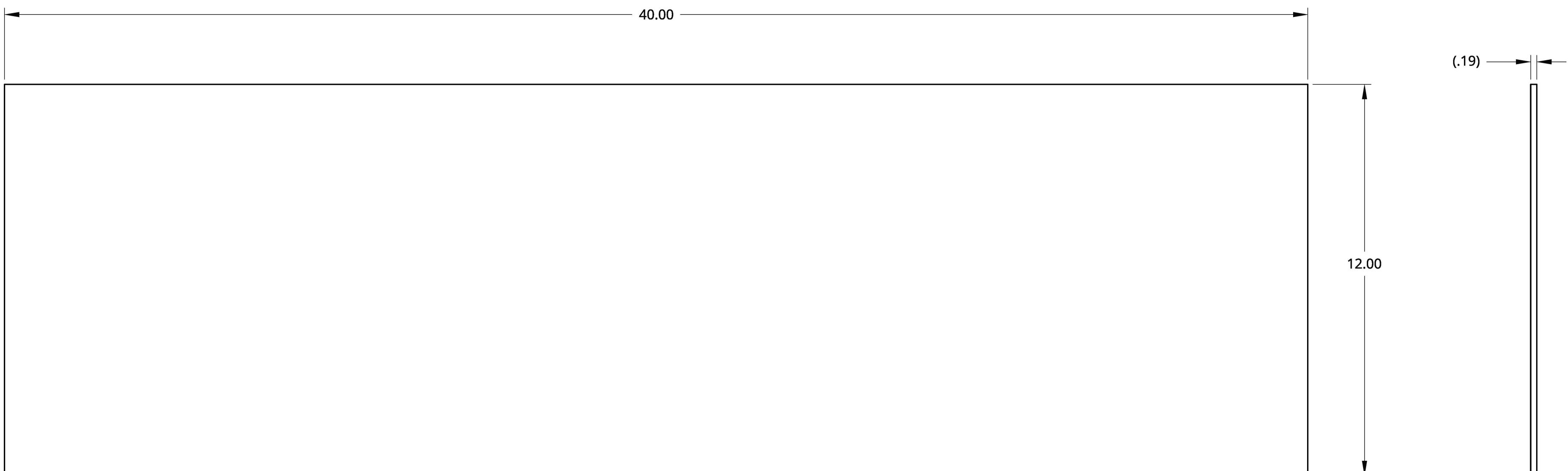
FIELD ENTRY RAMP

SIZE C DWG NO. FE-00014 REV.

SCALE 1:6 SHEET 1 of 6

D

D



C

C

B

B

A

A

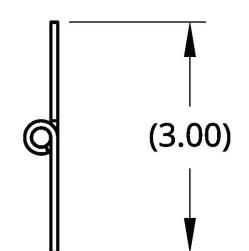
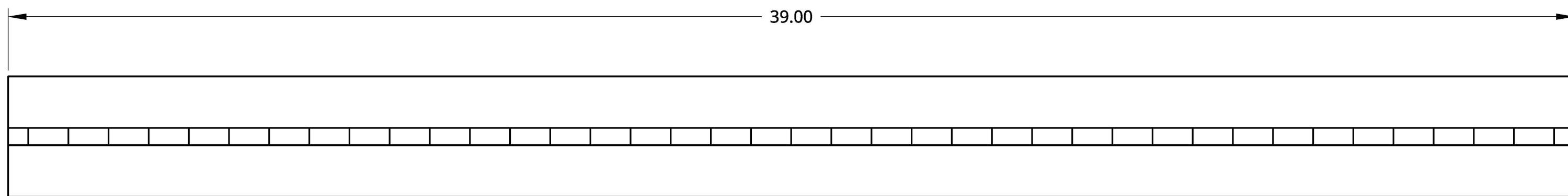
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND DRAWN	NAME JO	DATE 12/22/2025	 FIRST ROBOTICS COMPETITION
DO NOT SCALE DRAWING BREAK ALL SHARP EDGES AND REMOVE BURRS	MATERIAL	3/16" 3003 ALUMINUM DIAMOND PLATE	TITLE 3/16" 3003 ALUMINUM DIAMOND PLATE	
PROPRIETARY 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.	SIZE C	DWG NO. FE-00014-01	REV.	
	SCALE 1:2.5	SHEET 2 of 6		

D

D

C

C



B

B

A

A

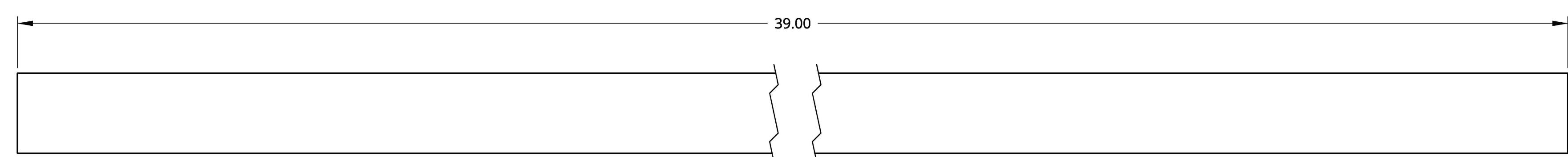
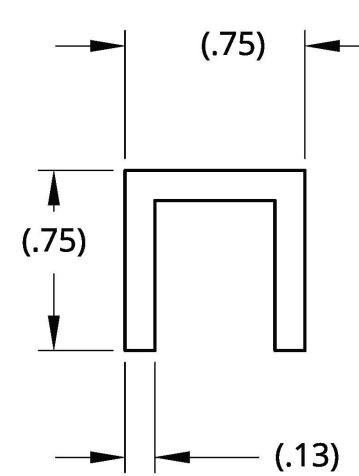
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = $\pm .01$ ANGULAR = $\pm 1^\circ$.XXX = $\pm .005$	VEND DRAWN	NAME JO	DATE 12/22/2025	 HINGE, ALUMINUM 3" X .09", 1/4" PIN	
DO NOT SCALE DRAWING	MATERIAL				
BREAK ALL SHARP EDGES AND REMOVE BURRS					
PROPRIETARY AND CONFIDENTIAL THE INFORMATION 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.	SIZE C	DWG NO. FE-00014-02	REV.		

D

D

C

C



B

B

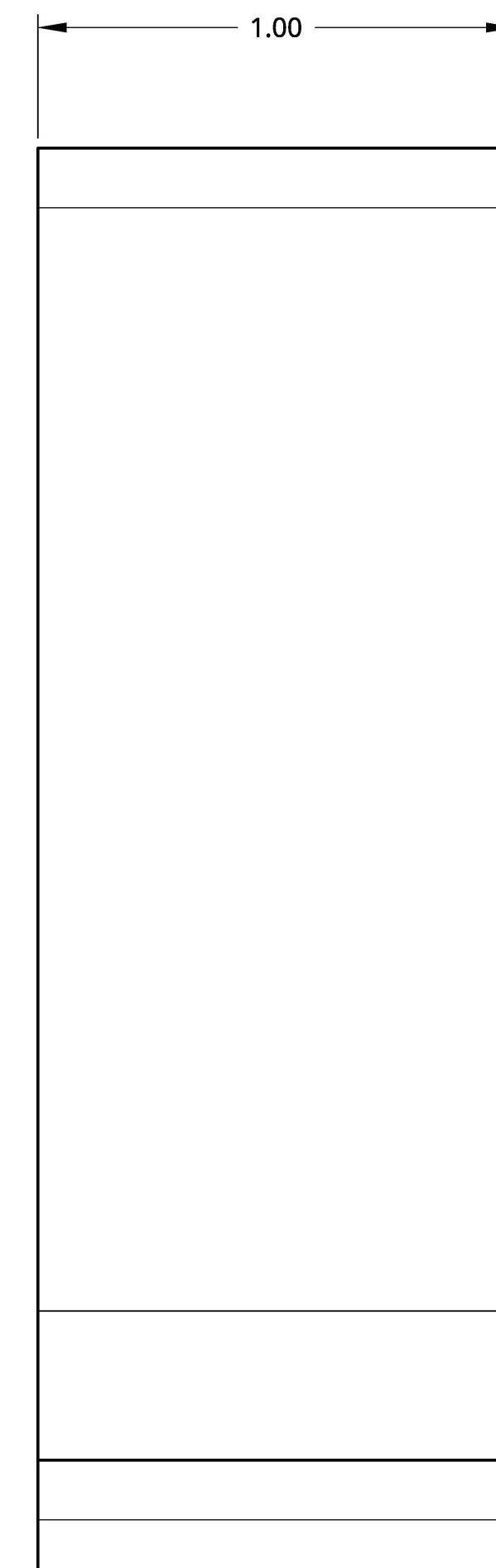
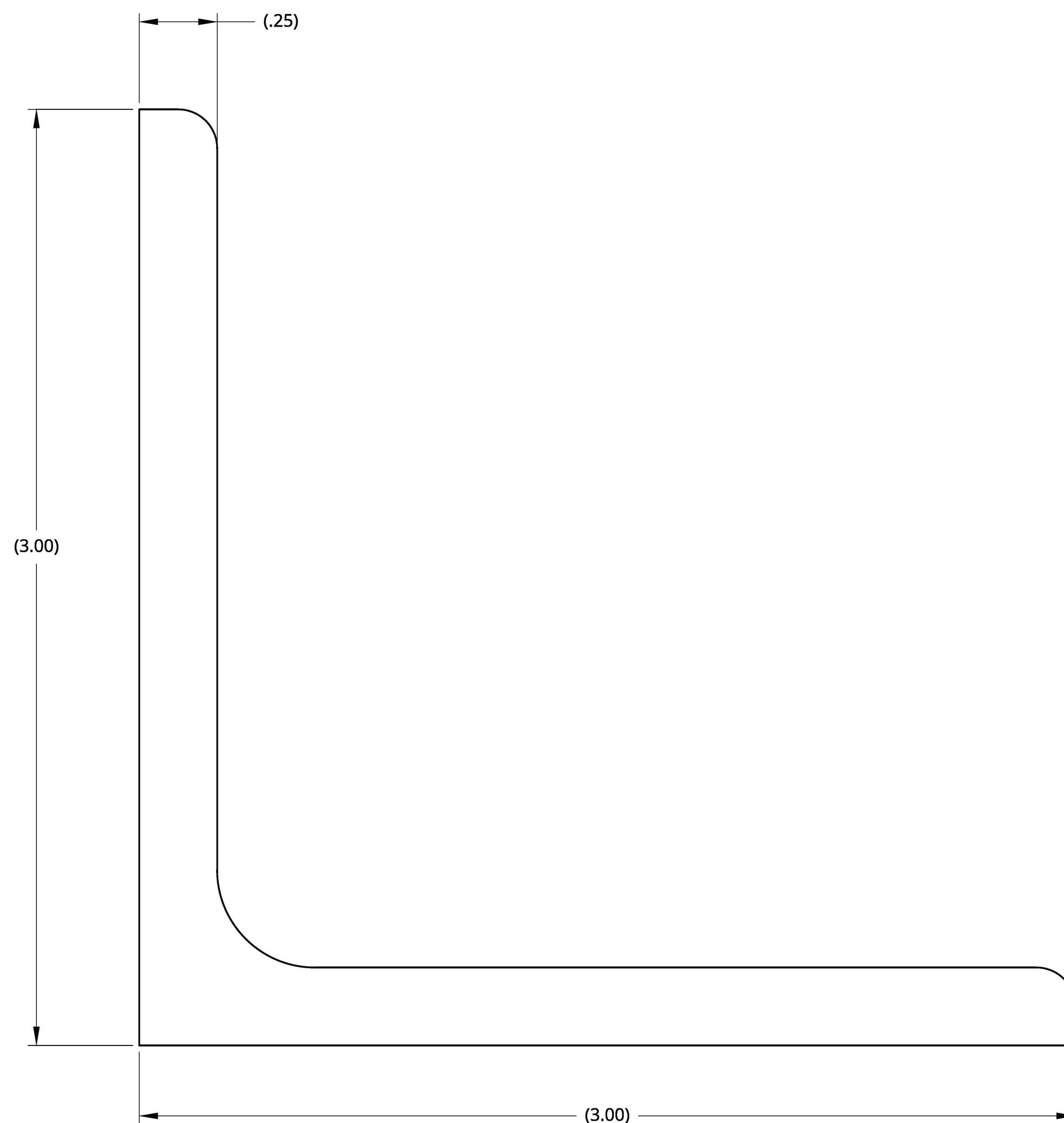
A

A

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = $\pm .01$ ANGULAR = $\pm 1^\circ$.XXX = $\pm .005$	VEND DRAWN	NAME JO	DATE 12/22/2025	 3/4" X 3/4" X 1/8" 6061-T6 ALUMINUM 'U' CHANNEL	
DO NOT SCALE DRAWING BREAK ALL SHARP EDGES AND REMOVE BURRS	MATERIAL 3/4" X 3/4" X 1/8" 6061-T6 ALUMINUM 'U' CHANNEL	TITLE SIZE C	DWG NO. FE-00014-03	REV.	
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.		SCALE 1.25:1	SHEET 4 of 6		

D

D



(3.00)

(.25)

(3.00)

B

B

A

A

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES
.0X = ±.01 ANGULAR = ± 1°
.00X = ±.005

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

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.

VEND NAME DATE
DRAWN JO 12/22/2025

MATERIAL

3" X 3" X 1/4"

6061-T6

ALUMINUM ANGLE

 FIRST
ROBOTICS
COMPETITION

TITLE

3" X 3" X 1/4" 6061-T6 ALUMINUM

ANGLE

SIZE C DWG NO.
FE-00014-04

REV.

SCALE 3:1 SHEET

5 of 6

D

D

C

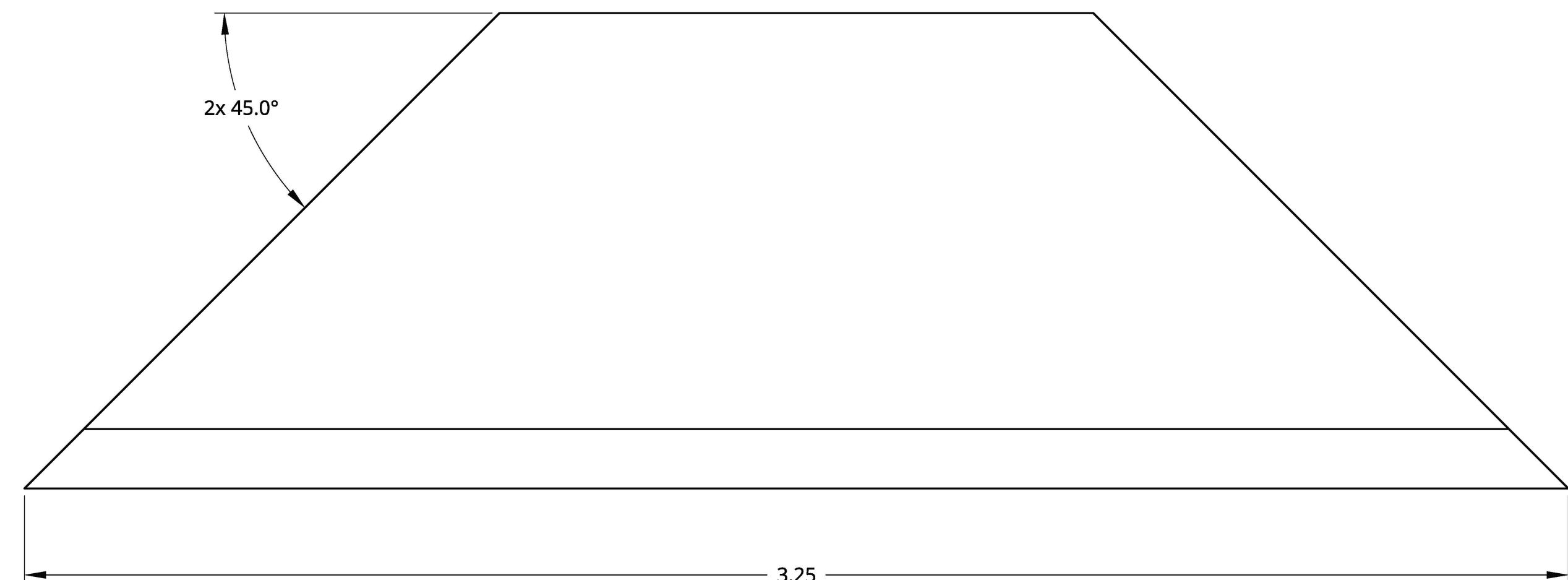
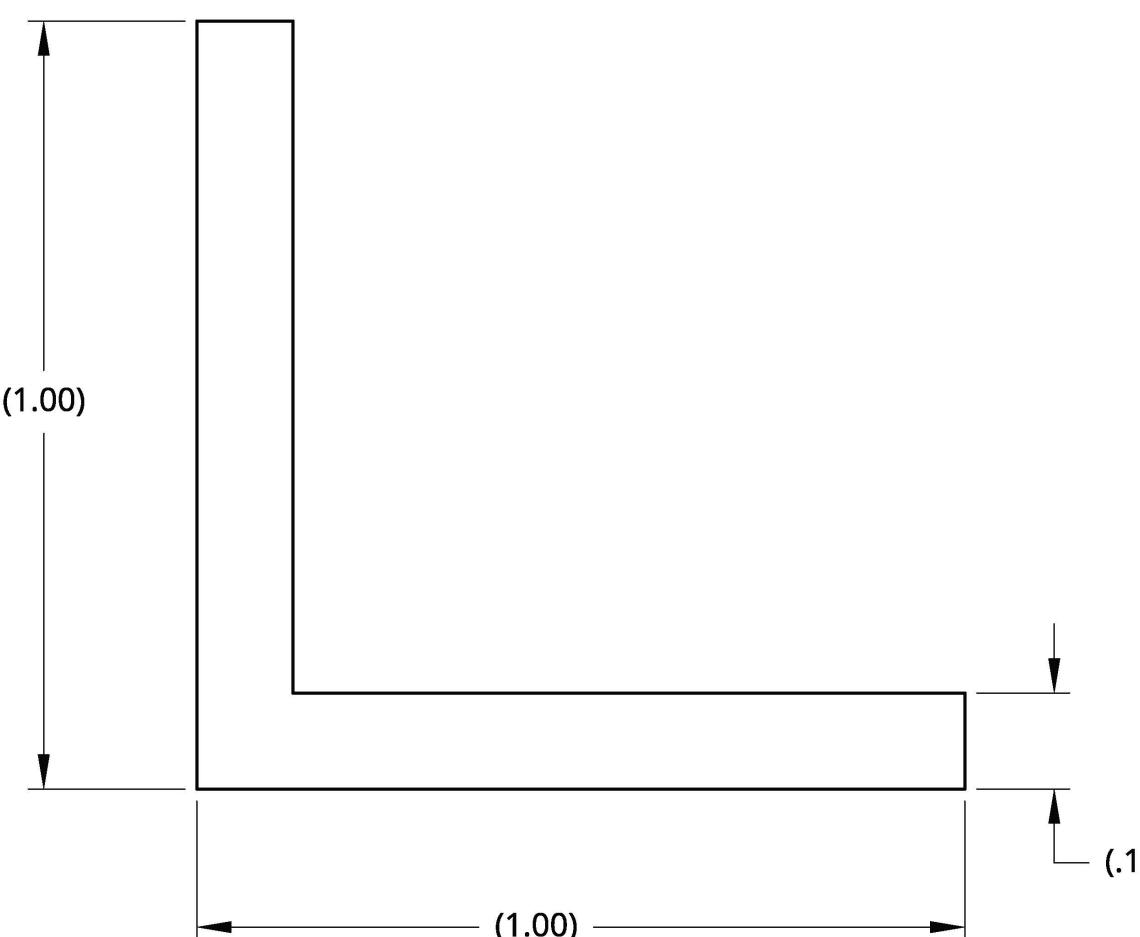
C

B

B

A

A

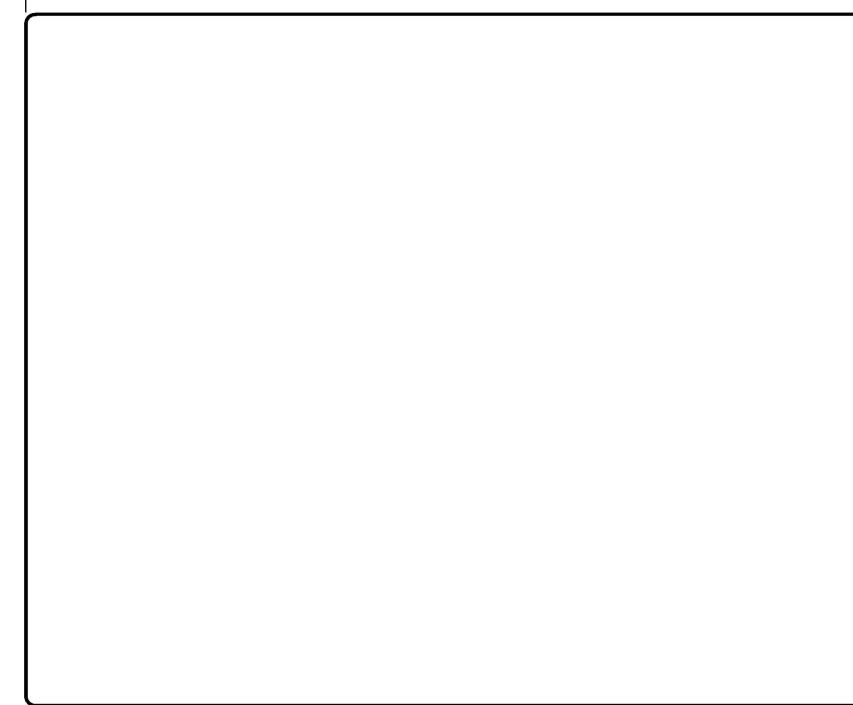


UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = $\pm .01$ ANGULAR = $\pm 1^\circ$.XXX = $\pm .005$	VEND DRAWN	NAME JO	DATE 12/22/2025	FIRST ROBOTICS COMPETITION	
DO NOT SCALE DRAWING	MATERIAL 1" X 1" X 1/8" 6061-T6 ALUMINUM ANGLE		TITLE 1" X 1" X 1/8" 6061-T6 ALUMINUM ANGLE		
BREAK ALL SHARP EDGES AND REMOVE BURRS			SIZE C	DWG NO. FE-00014-05	REV.
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.			SCALE 4:1	SHEET 6 of 6	

D

D

24.000



C

C

B

B

A

A

(.125)

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES
.XX = $\pm .01$ ANGULAR = $\pm 1^\circ$
.XXX = $\pm .005$

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

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.

BEND	NAME	DATE
DRAWN	JO	10/15/2025

MATERIAL

1/8" HDPE
SMOOTH -
YELLOW

FIRST ROBOTICS COMPETITION		
----------------------------------	--	--

TRIP GUARD

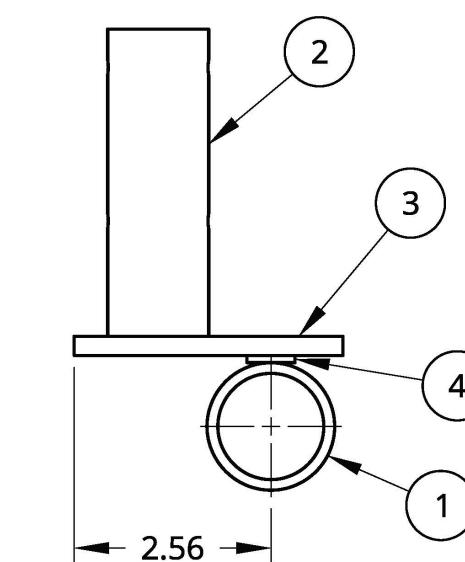
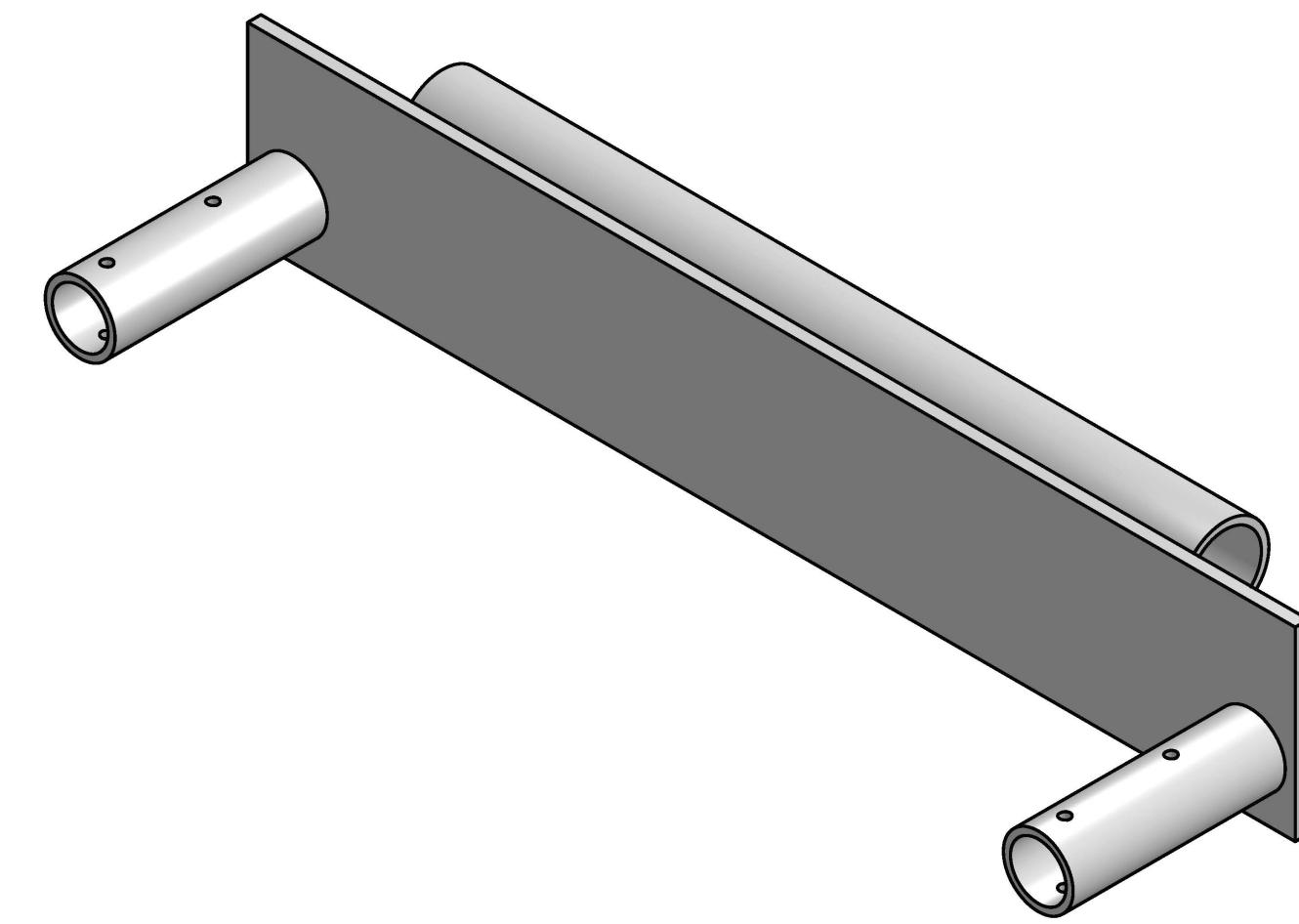
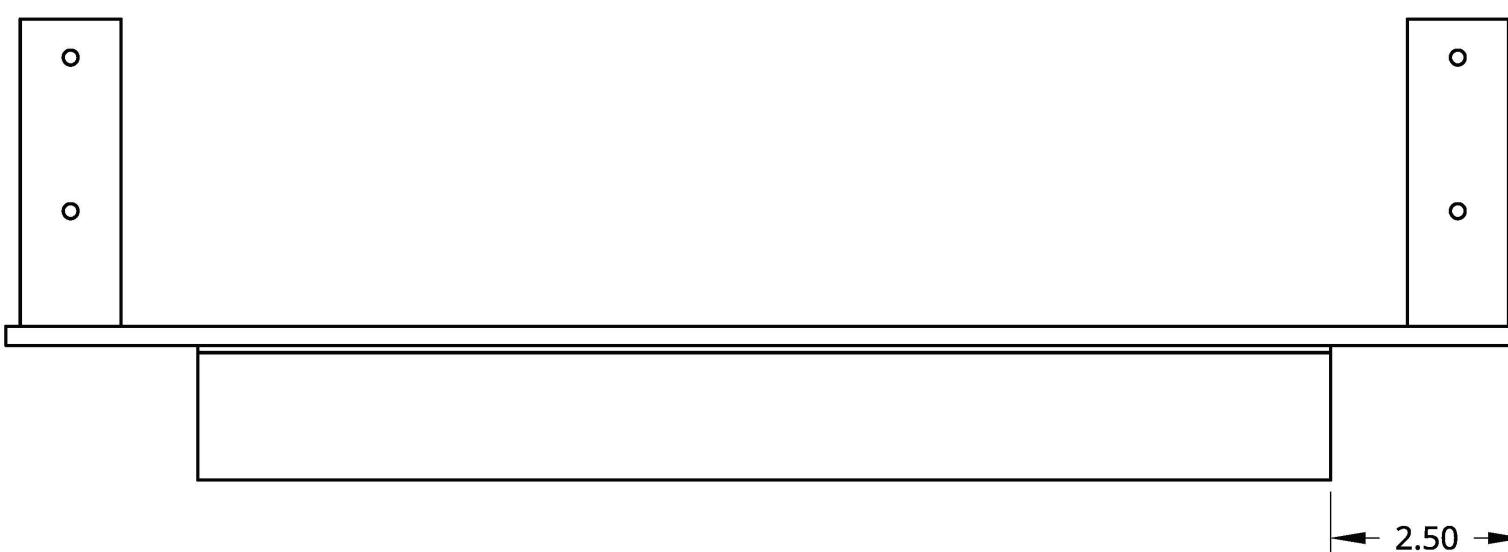
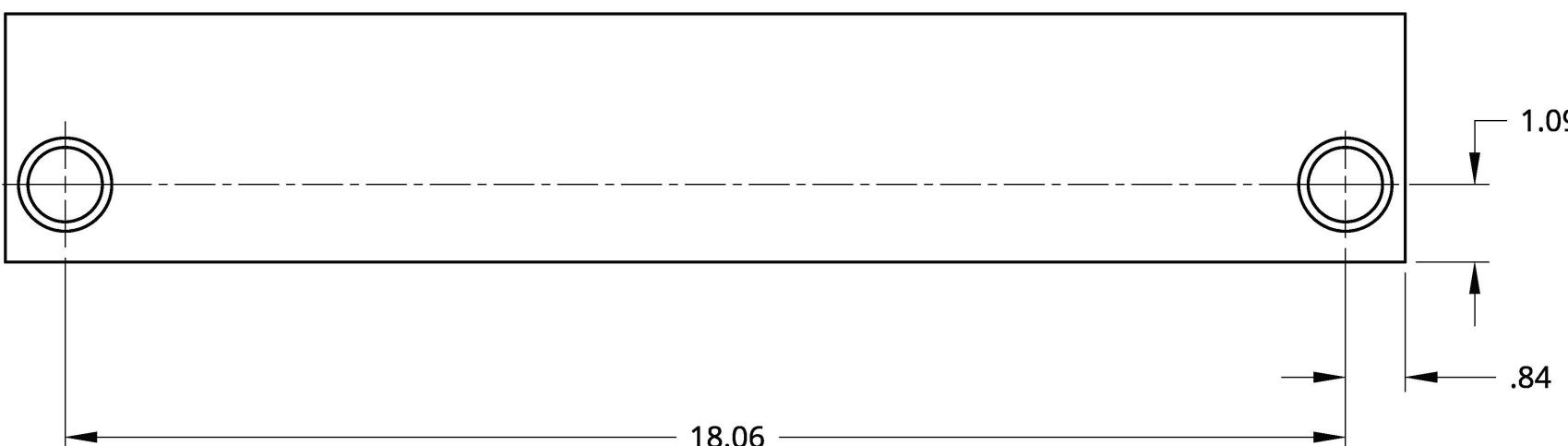
TITLE

SIZE C DWG NO.

FE-00015

REV.

SCALE 2:5 SHEET 1 of 1



Item	Quantity	Part number	Description
1	1	FE-00018-01	1-1/4" Schedule 40 6061 Aluminum Pipe
2	2	FE-00018-02	1" Schedule 40 6061 Aluminum Pipe
3	1	FE-00018-03	1/4" 6061 Aluminum Bar
4	1	FE-00018-04	3/32" 6061 Aluminum Bar

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND	NAME	DATE	FIRST ROBOTICS COMPETITION
	DRAWN	JO	12/16/2025	
DO NOT SCALE DRAWING	MATERIAL			TITLE CORNER CONNECTOR
BREAK ALL SHARP EDGES AND REMOVE BURRS				
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.	SIZE	DWG NO.	REV.	
	C	FE-00018		
SCALE	1:2.5	SHEET	1 of 5	

D

D

C

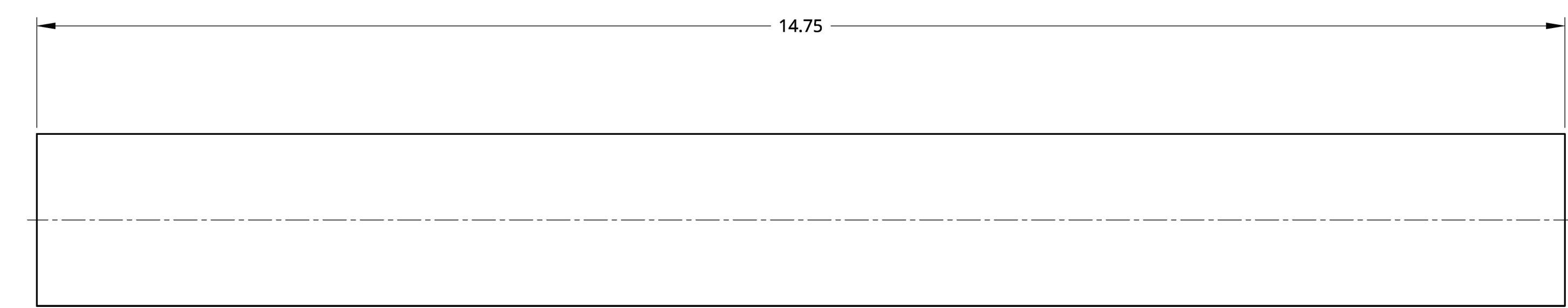
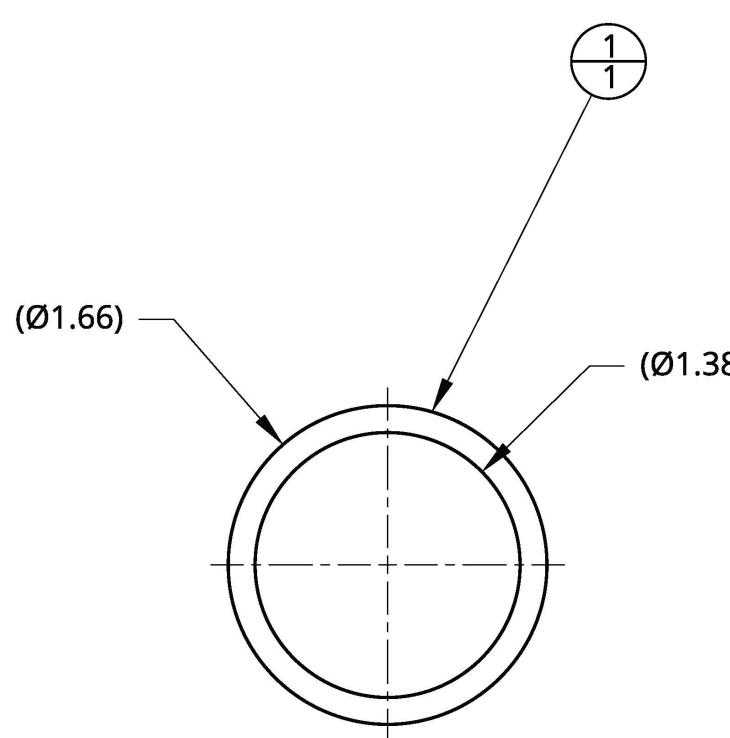
C

B

B

A

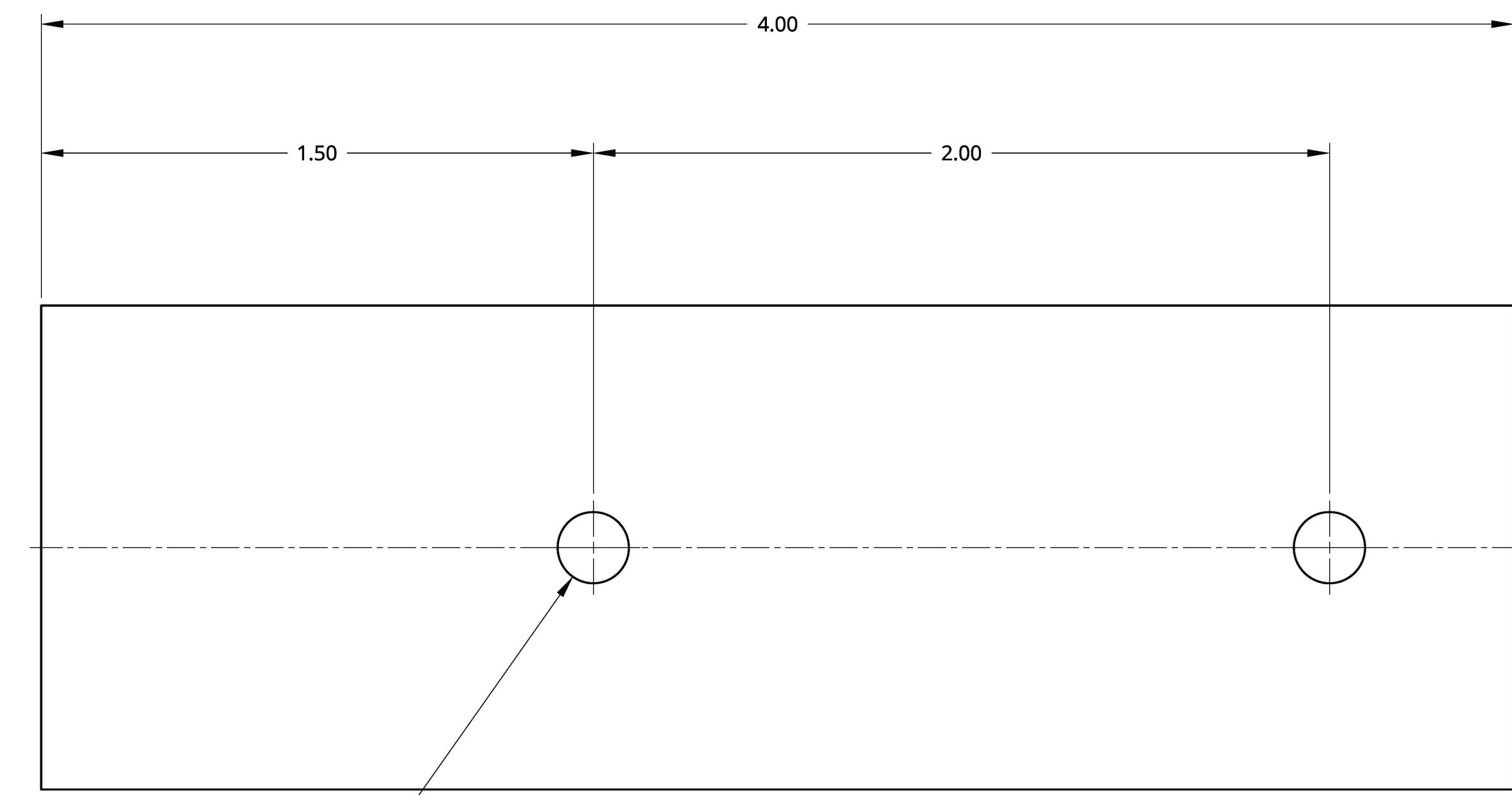
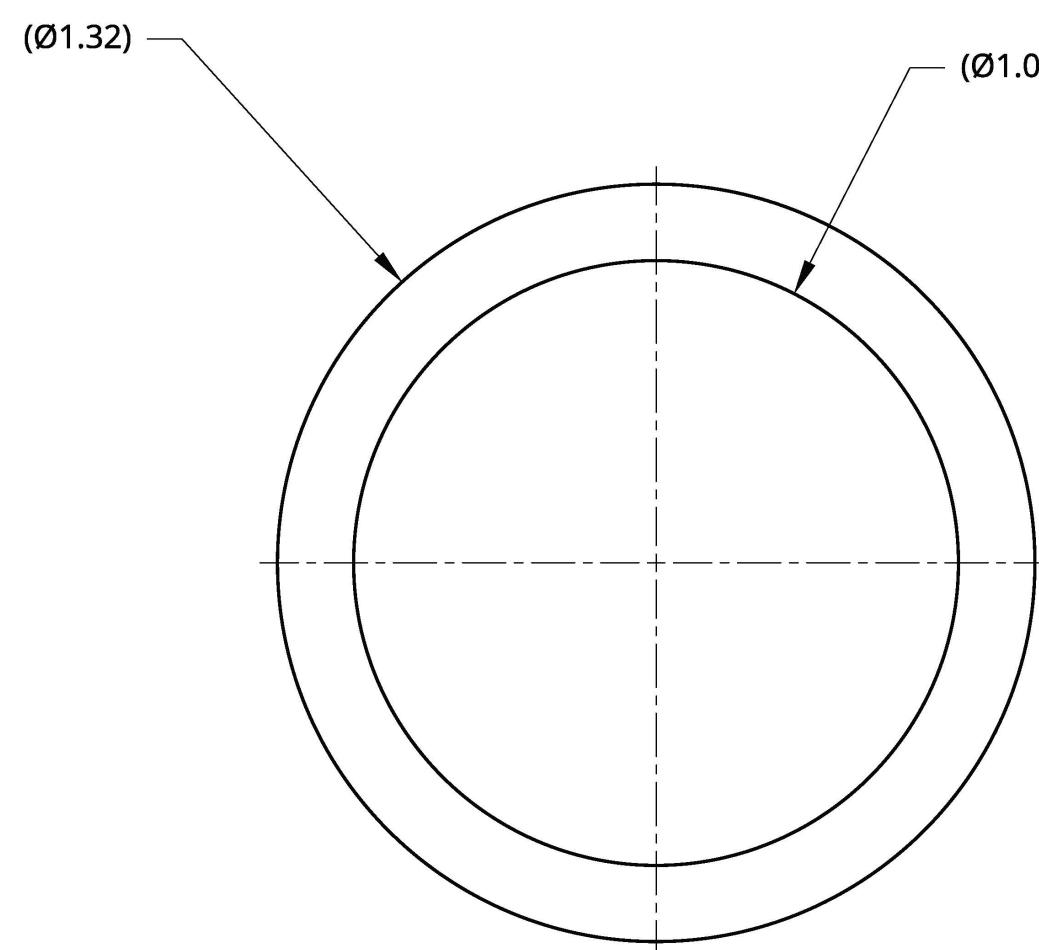
A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND	NAME	DATE	 FIRST ROBOTICS COMPETITION
	DRAWN	JO	12/16/2025	
DO NOT SCALE DRAWING	MATERIAL 1-1/4" SCHEDULE 40 6061 ALUMINUM PIPE	TITLE 1-1/4" SCHEDULE 40 6061 ALUMINUM PIPE	SIZE C DWG NO. FE-00018-01 REV.	
BREAK ALL SHARP EDGES AND REMOVE BURRS				
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.				
SCALE 1:1	SHEET 2 of 5			

D

D



C

C

B

B

A

A

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = $\pm .01$ ANGULAR = $\pm 1^\circ$.XXX = $\pm .005$	VEND DRAWN	NAME JO	DATE 12/16/2025	 1" SCHEDULE 40 6061 ALUMINUM PIPE	
DO NOT SCALE DRAWING BREAK ALL SHARP EDGES AND REMOVE BURRS	MATERIAL 1" SCHEDULE 40 6061 ALUMINUM PIPE	SIZE C	DWG NO. FE-00018-02	REV.	
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.	SCALE 3:1	SHEET 3 of 5			

D

D

(.25)

3.50

C

C

19.75

B

B

A

A

Vertical dimension line with a gap of (.25) between two tick marks.

Horizontal dimension line with a gap of 3.50 between two tick marks.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = $\pm .01$ ANGULAR $\pm 1^\circ$.XXX = $\pm .005$	VEND	NAME	DATE	 FIRST ROBOTICS COMPETITION
	DRAWN	JO	12/16/2025	
DO NOT SCALE DRAWING	MATERIAL	1/4" 6061 ALUMINUM BAR	TITLE 1/4" 6061 ALUMINUM BAR	
BREAK ALL SHARP EDGES AND REMOVE BURRS				
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.				
SIZE	DWG NO.	FE-00018-03	REV.	
SCALE	1:2		SHEET	4 of 5

D

D

C

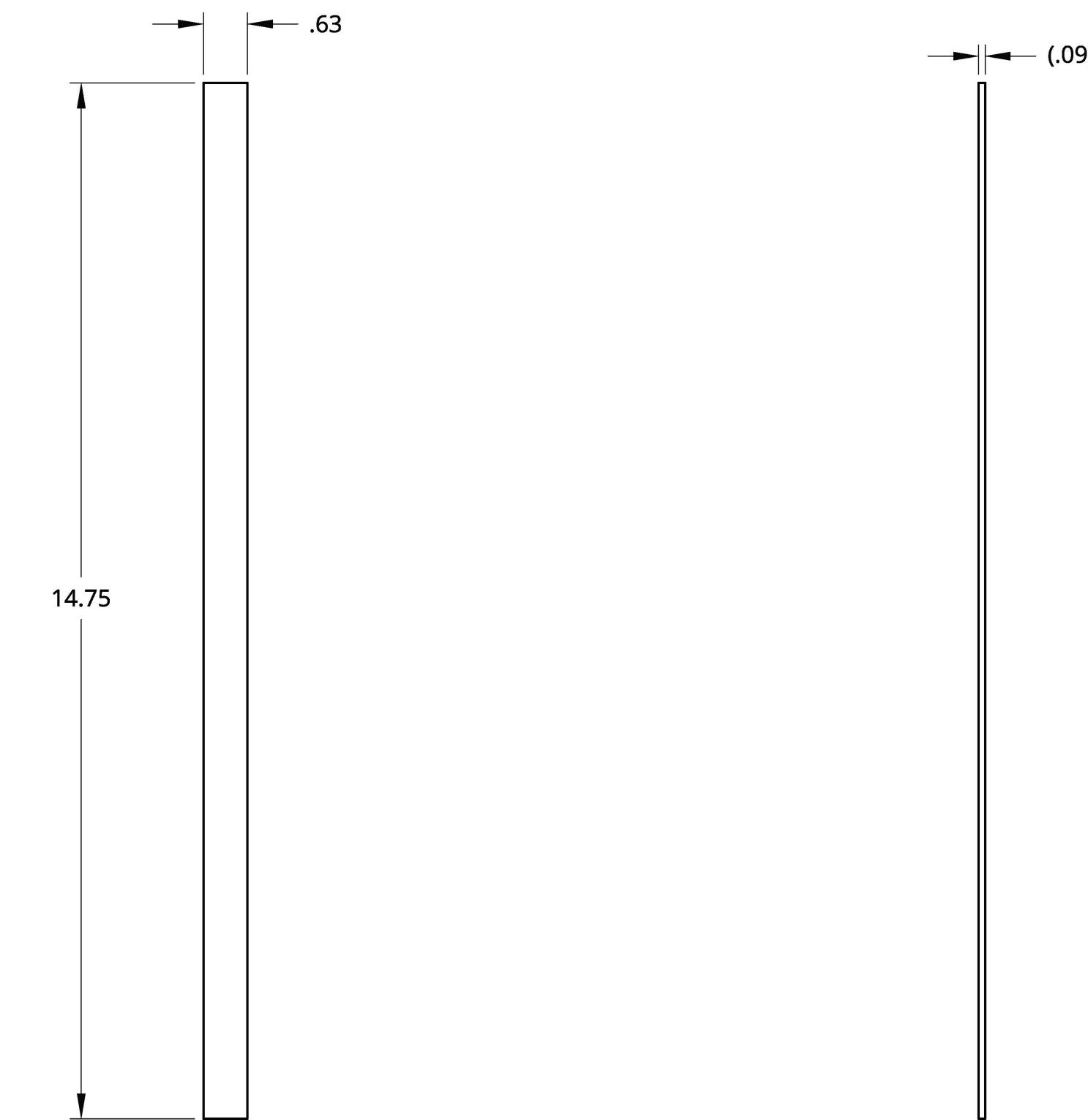
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = $\pm .01$ ANGULAR = $\pm 1^\circ$.XXX = $\pm .005$	VEND	NAME	DATE	 FIRST ROBOTICS COMPETITION
	DRAWN	JO	12/16/2025	
DO NOT SCALE DRAWING	MATERIAL 3/32" 6061 ALUMINUM BAR	TITLE 3/32" 6061 ALUMINUM BAR	SIZE C	DWG NO. FE-00018-04
BREAK ALL SHARP EDGES AND REMOVE BURRS				
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.				
SCALE 1:2				
				SHEET 5 of 5

4

3

2

1

D

D

C

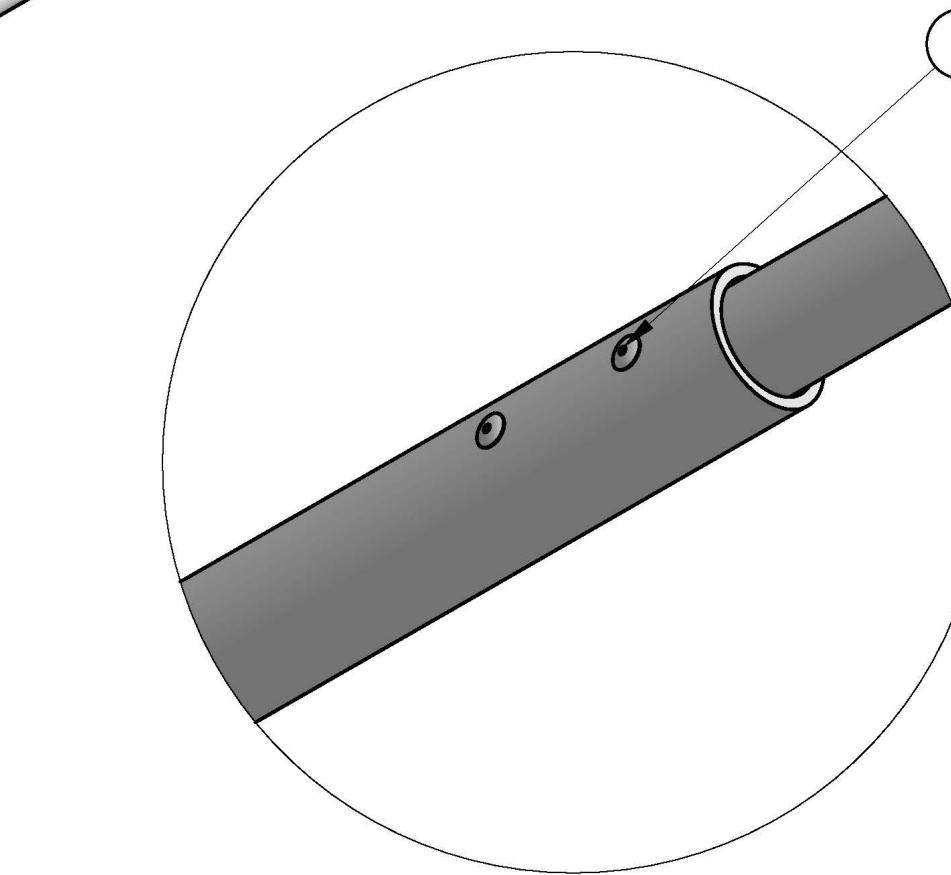
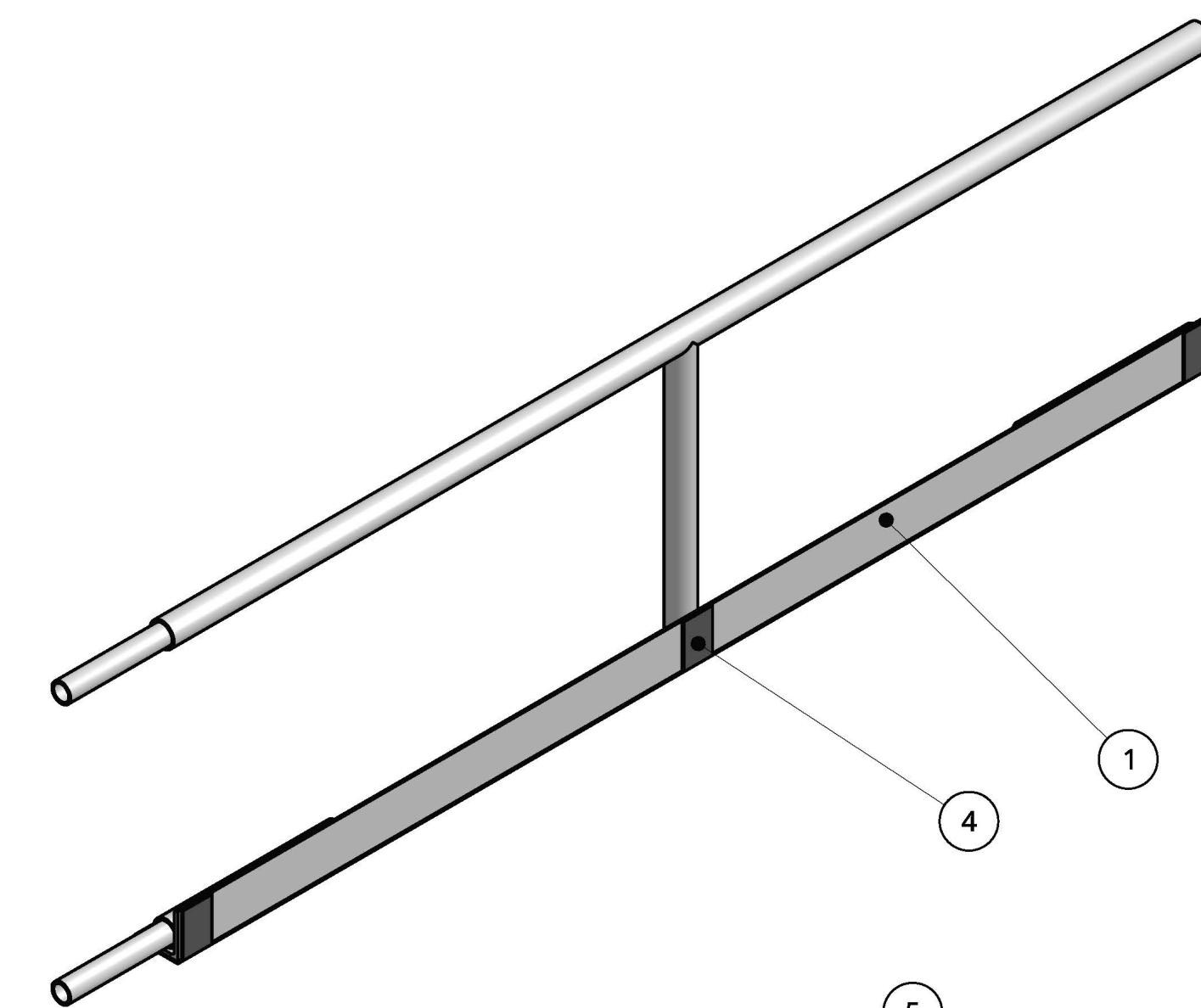
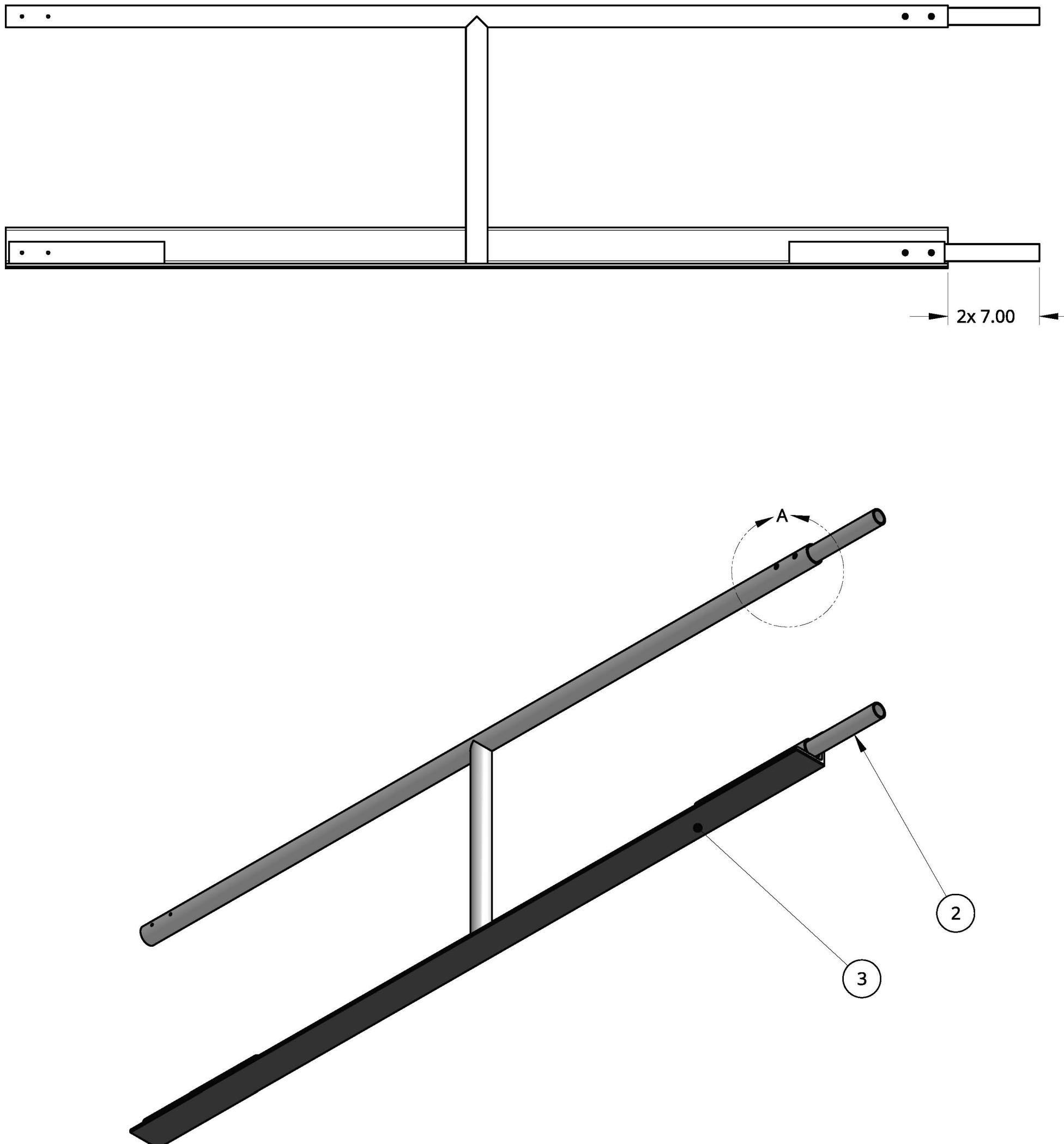
C

B

B

A

A



DETAIL A
SCALE 1:2

Item	Quantity	Part number	Description
1	1	FE-00005	Field Rail Weldment
2	2	FE-00026	Connector Pin
3	1		Hook Tape, 3in Wide, 72in Long
4	3		Loop Tape, 2in Wide, 3in Long
5	4		3/16in Rivet, 0.251-0.375in Grip Length

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES XX = ±.01 ANGULAR = ± 1° XXX = ±.005	VEND	NAME	DATE	FIRST ROBOTICS COMPETITION
DO NOT SCALE DRAWING	DRAWN	CO	12/24/2025	
BREAK ALL SHARP EDGES AND REMOVE BURRS				MATERIAL
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.				TITLE
SIZE	DWG NO.	FE-00022	REV.	
SCALE	1:8		SHEET	1 of 1

4

3

2

1

D

D

C

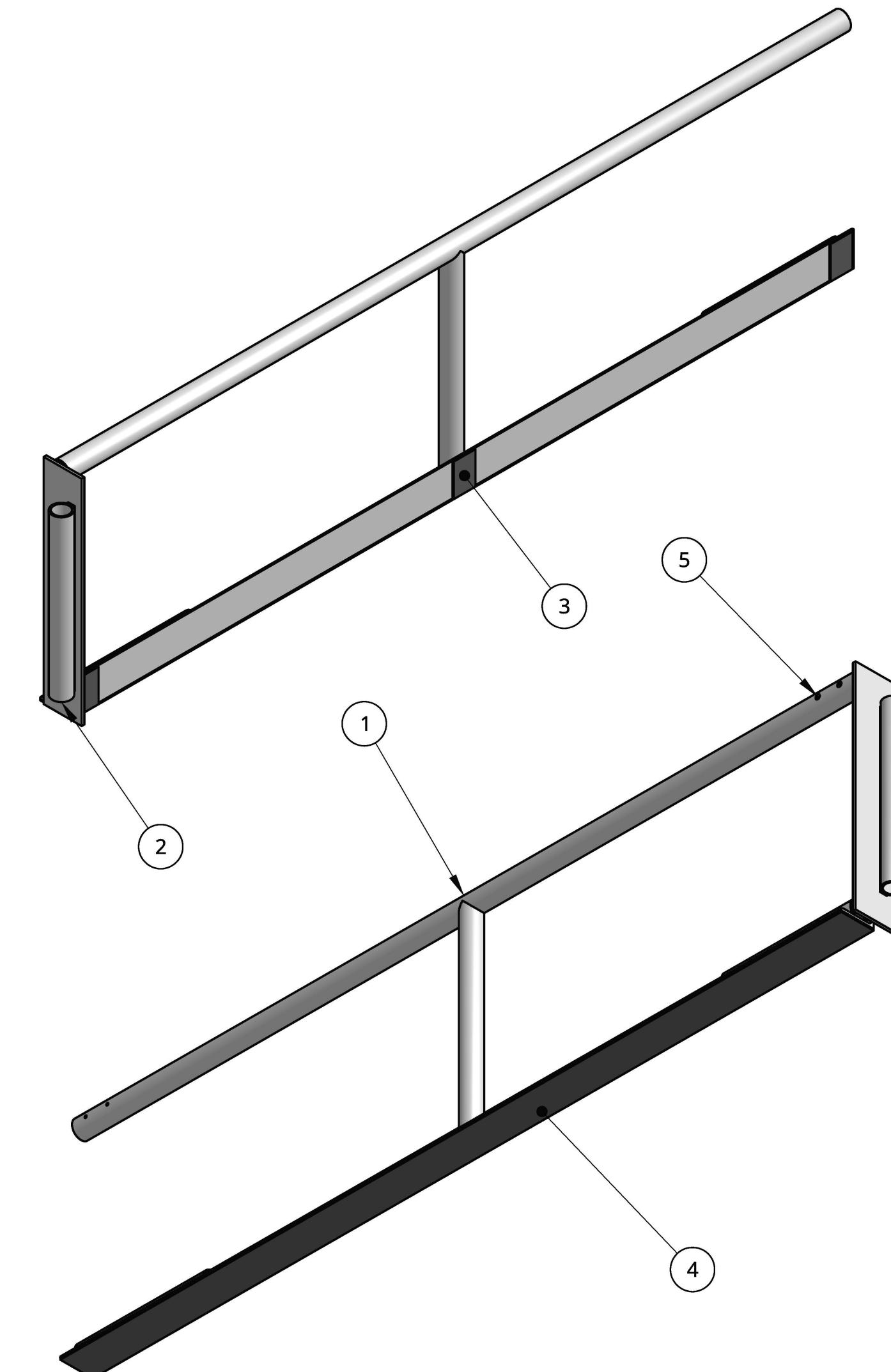
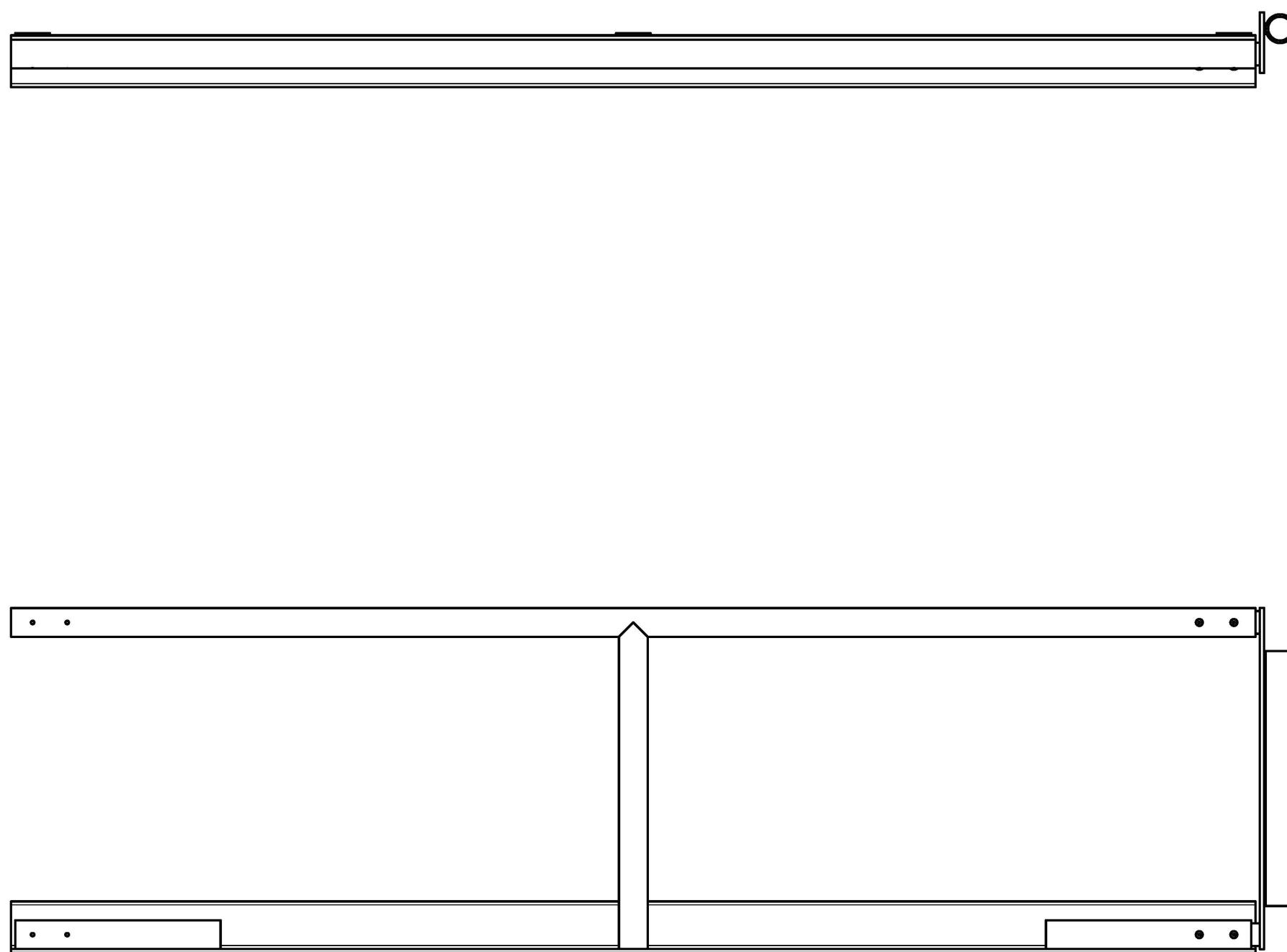
C

B

B

A

A



Item	Quantity	Part number	Description
1	1	FE-00005	Field Rail Weldment
2	1	FE-00018	Corner Connector
3	3		Loop Tape, 2in Wide, 3in Long
4	1		Hook Tape, 3in Wide, 72in Long
5	4		3/16in Rivet, 0.251-0.375in Grip Length

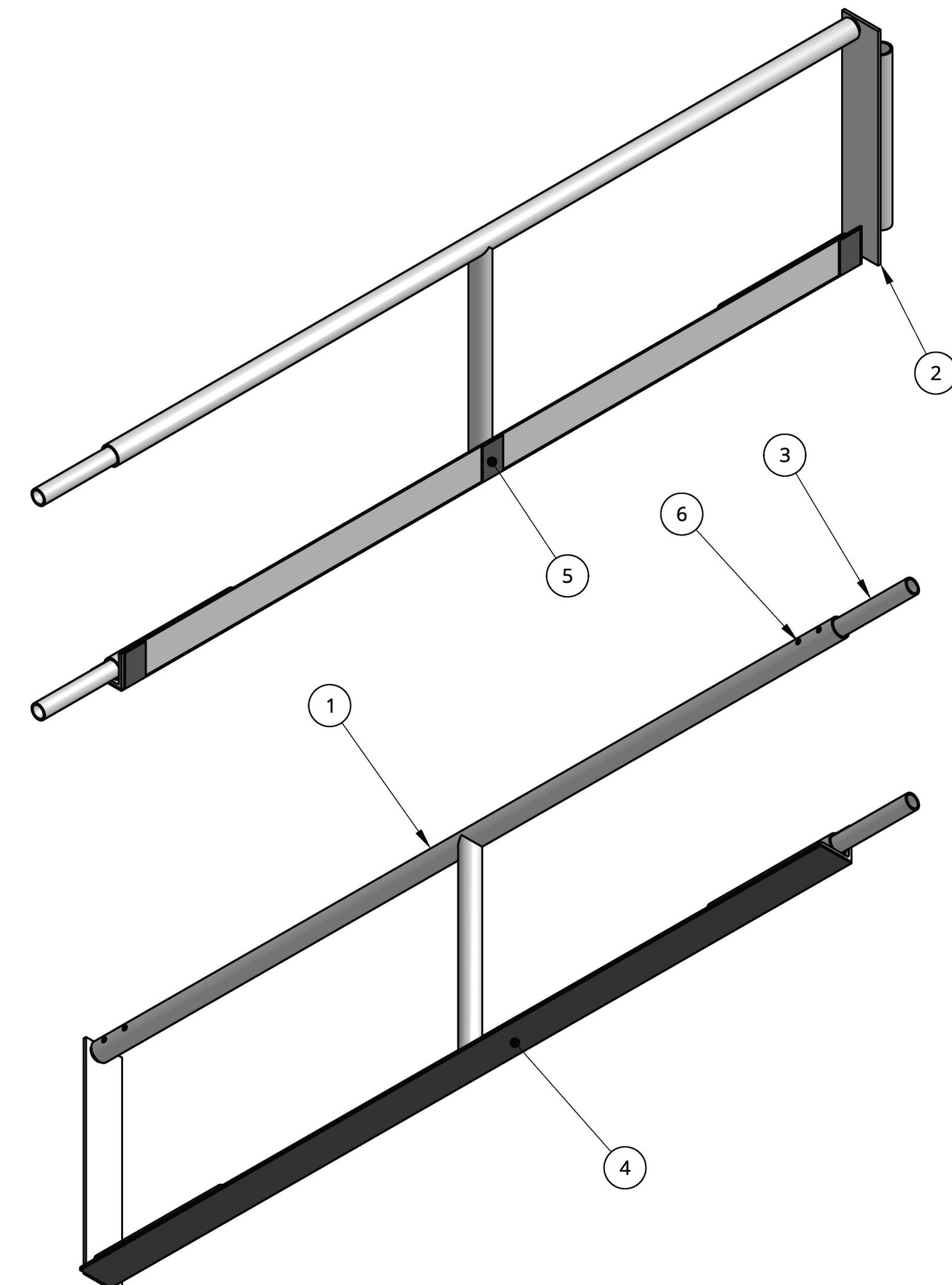
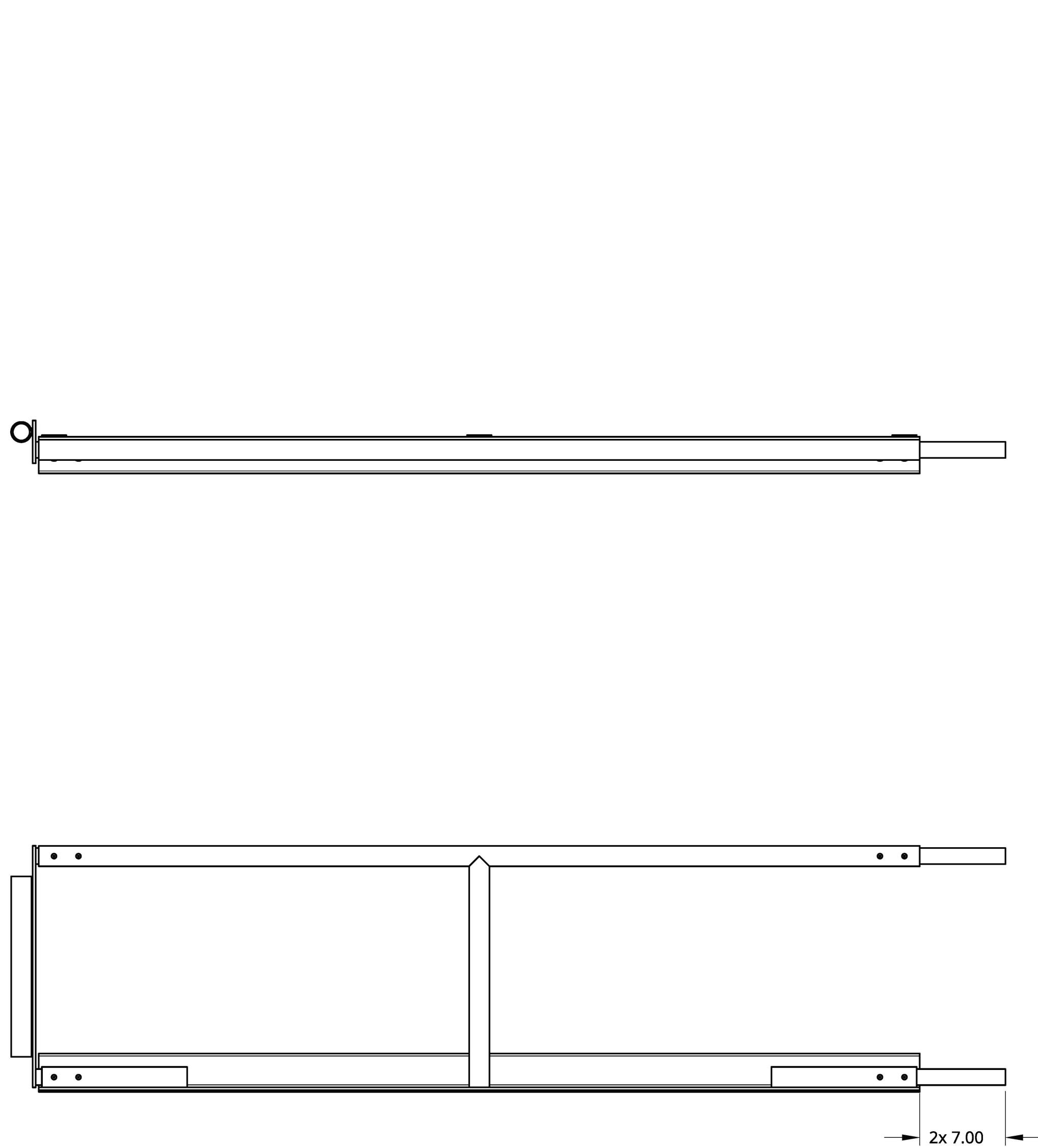
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND	NAME	DATE	 FIRST ROBOTICS COMPETITION	
DO NOT SCALE DRAWING	DRAWN	CO	12/24/2025		
MATERIAL				TITLE	
FIELD RAIL ASSY, LEFT					
SIZE C		DWG NO.		REV.	
SCALE		FE-00023		1 of 1	

4

3

2

1



Item	Quantity	Part number	Description
1	1	FE-00005	Field Rail Weldment
2	1	FE-00018	Corner Connector
3	2	FE-00026	Connector Pin
4	1		Hook Tape, 3in Wide, 72in Long
5	3		Loop Tape, 2in Wide, 3in Long
6	8		3/16in Rivet, 0.251-0.375in Grip Length

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = $\pm .01$ ANGULAR = $\pm 1^\circ$.XXX = $\pm .005$	VEND	NAME	DATE	 FIRST ROBOTICS COMPETITION	
DO NOT SCALE DRAWING	DRAWN	CO	12/24/2025		
MATERIAL				TITLE	
FIELD RAIL ASSY, RIGHT					
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.	SIZE	DWG NO.			REV.
	C	FE-00024			
SCALE	1:8		SHEET		1 of 1

D

D

C

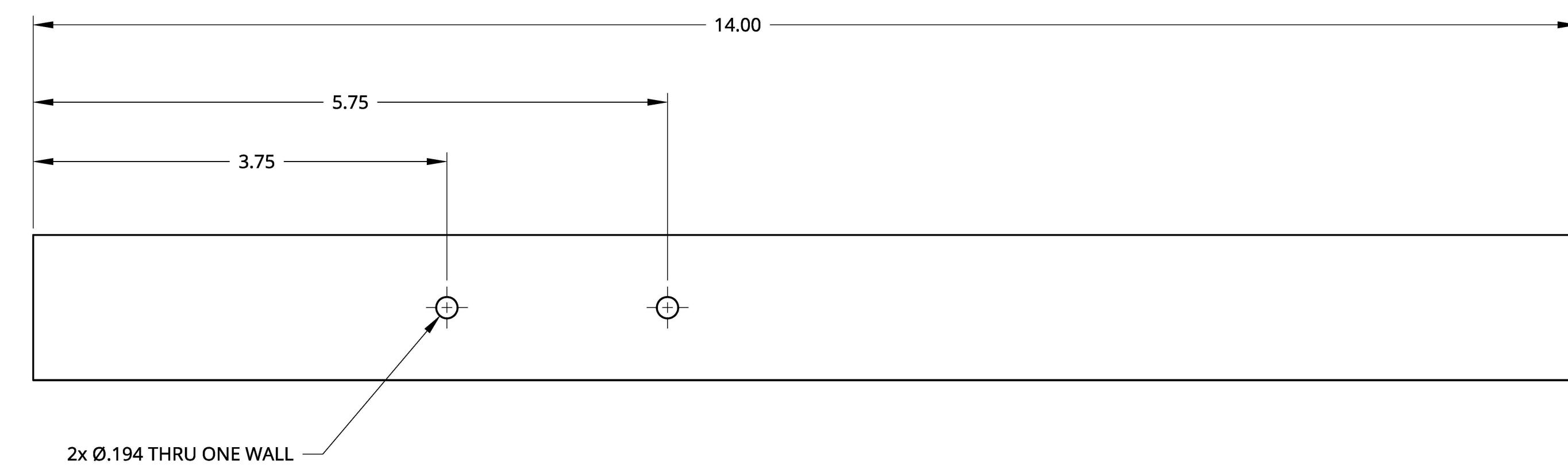
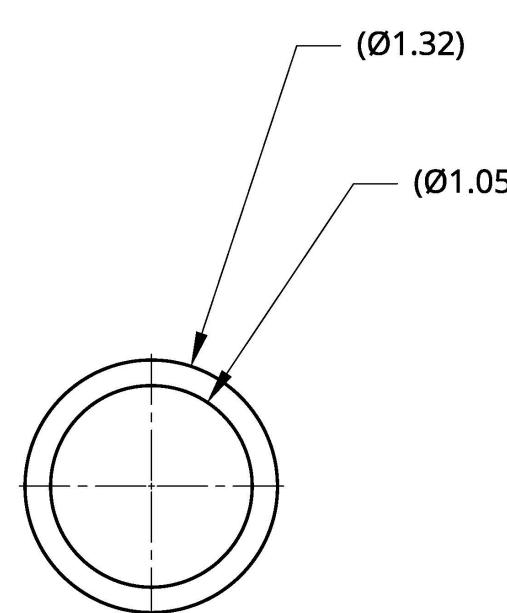
C

B

B

A

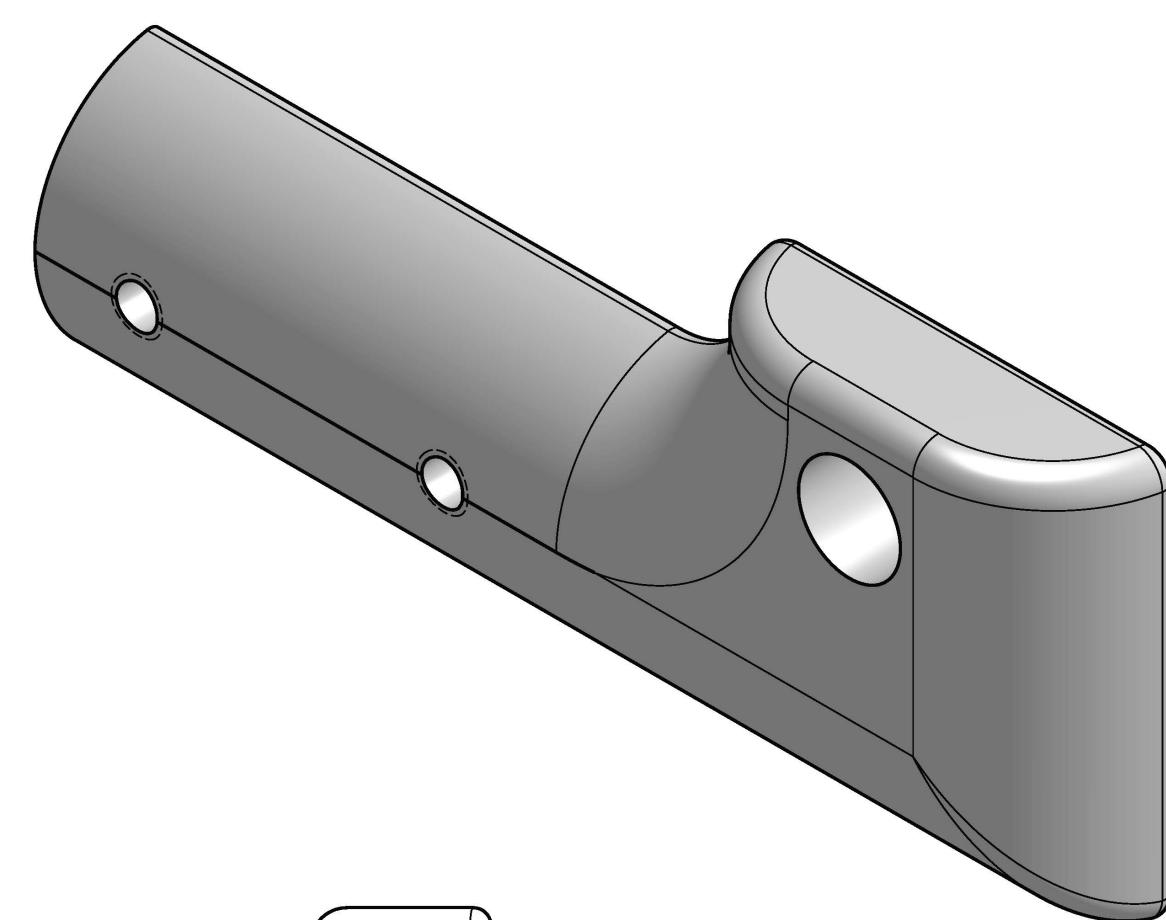
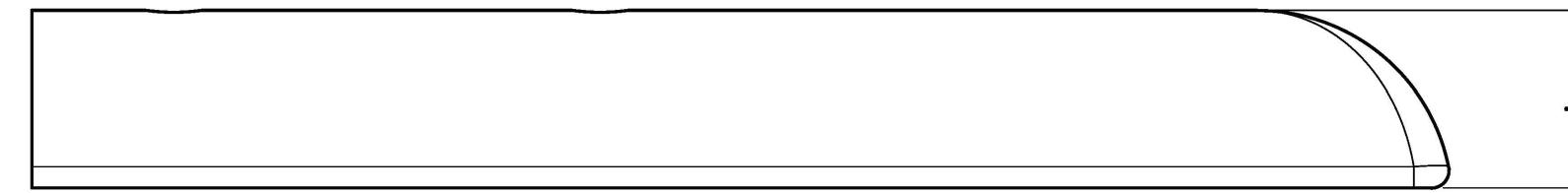
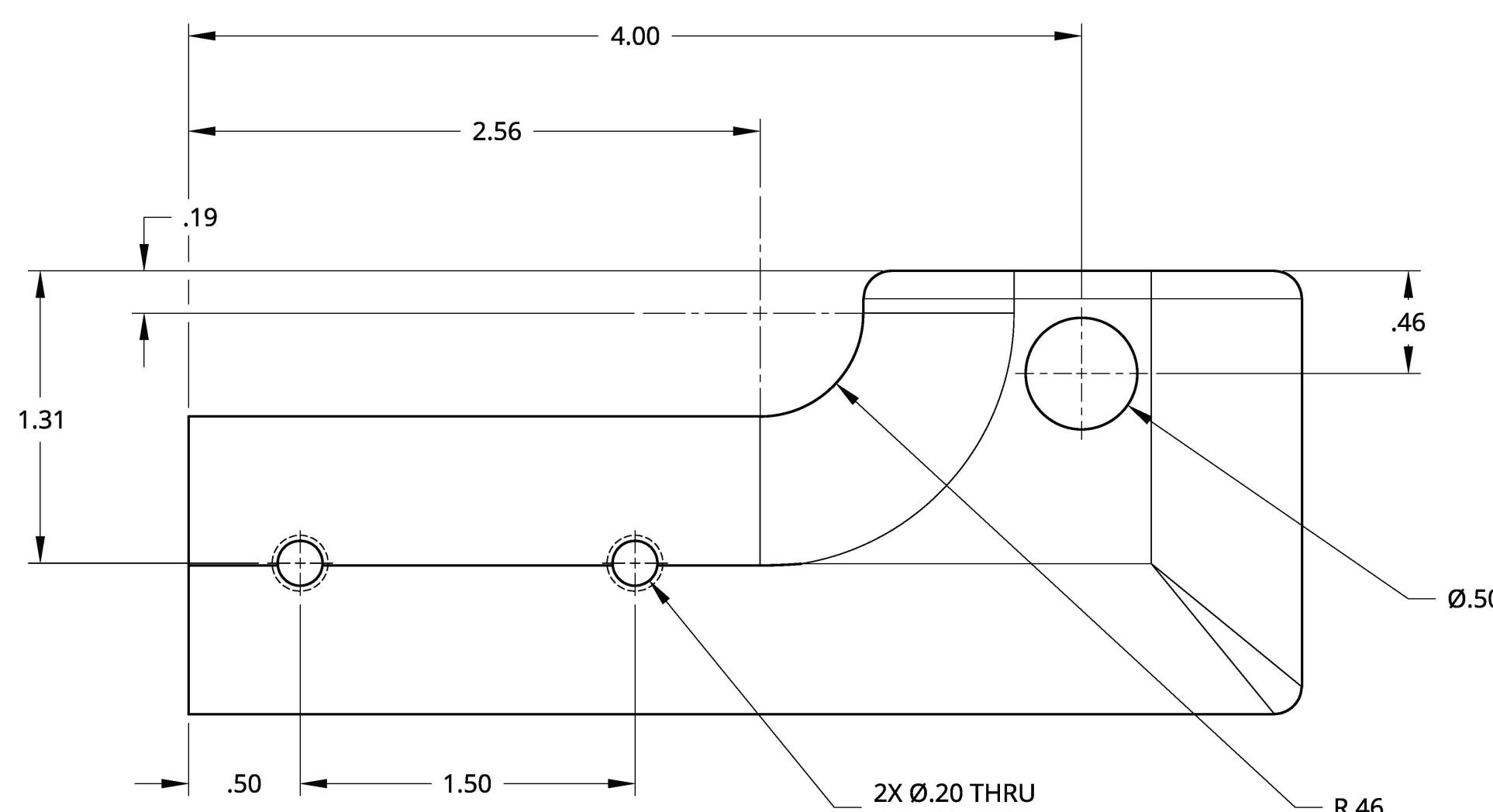
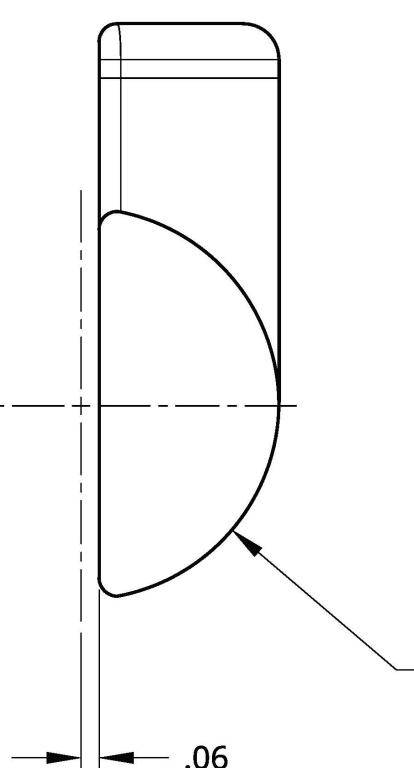
A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES XX = ±.01 ANGULAR = ± 1° XXX = ±.005	VEND	NAME	DATE	FIRST ROBOTICS COMPETITION
	DRAWN	JO	12/18/2025	
DO NOT SCALE DRAWING	MATERIAL 1" SCHEDULE 40 6061 ALUMINUM PIPE	TITLE CONNECTOR PIN		
BREAK ALL SHARP EDGES AND REMOVE BURRS				
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.				
SIZE C	DWG NO.	FE-00026	REV.	
SCALE 1:1	SHEET	1 of 1		

D

D



B

B

A

A

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES
.XX = $\pm .01$ ANGULAR = $\pm 1^\circ$
.XXX = $\pm .005$

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

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.

VEND	NAME	DATE
DRAWN	JO	12/19/2025

MATERIAL

6063 ALUMINUM

**FIRST
ROBOTICS
COMPETITION**

HINGE, INSERT

SIZE	DWG NO.
C	FE-00027

SCALE	1.5:1	SHEET	1 of 1
-------	-------	-------	--------

D

D

C

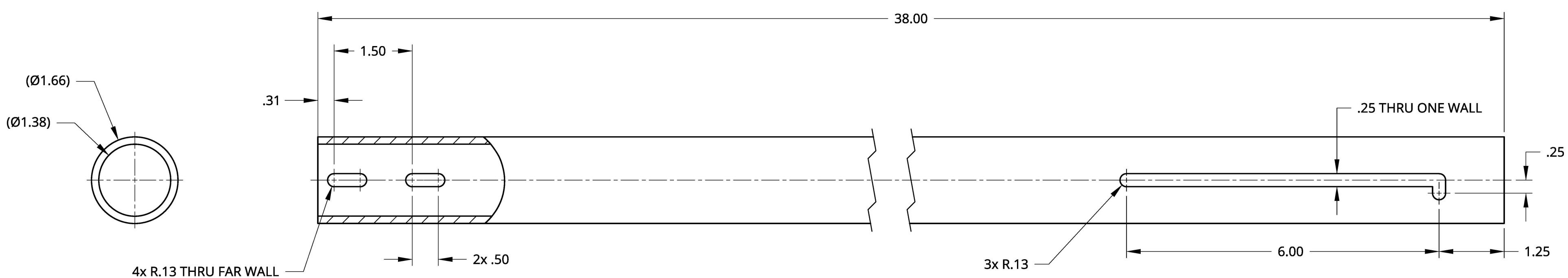
C

B

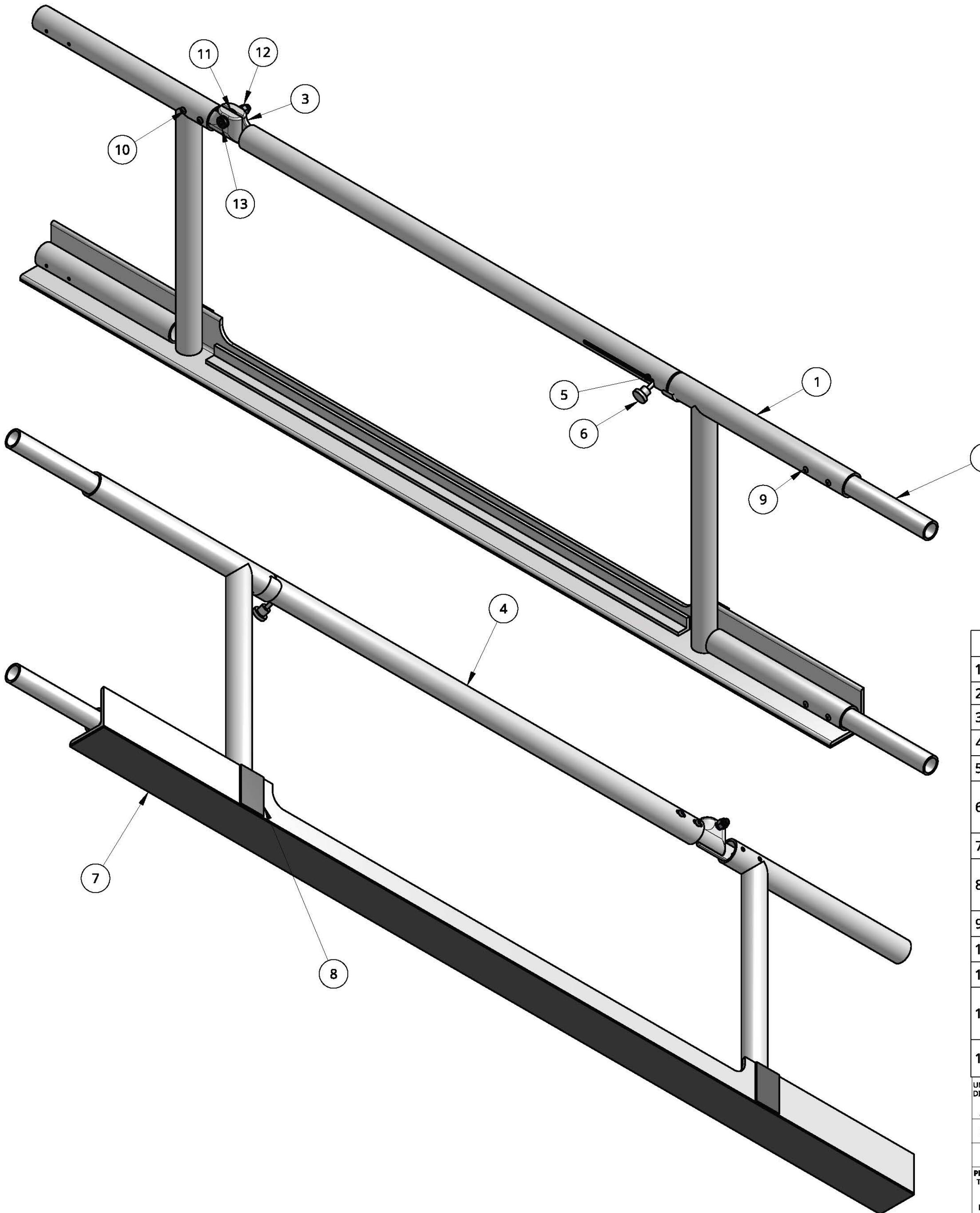
B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND	NAME	DATE	 FIRST ROBOTICS COMPETITION
	DRAWN	JO	12/18/2025	
DO NOT SCALE DRAWING	MATERIAL 1-1/4" SCHEDULE 40 6061 ALUMINUM PIPE		TITLE	ARM, FIELD GATE FE-00028
BREAK ALL SHARP EDGES AND REMOVE BURRS			SCALE	
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.			REV.	
SIZE	DWG NO.	1:1.5	SHEET	1 of 1



Item	Quantity	Part number	Description
1	1	FE-00006	Field Rail, Gate Weldment
2	2	FE-00026	Connector Pin
3	2	FE-00027	Hinge, Insert
4	1	FE-00028	Arm, Field Gate
5	1	FE-00031	Slide, Gate
6	1	FE-00054	Knob, Round Knurled with threaded Stud McMaster Carr 6091K61
7	1		Hook Tape, 3in Wide, 72in Long
8	2		Loop Tape, 2in Wide, 3in Long
9	4		3/16in Rivet, 0.251-0.375in Grip Length
10	4		Socket button head cap screw 1/4-20 x 0.75 Steel Black Oxide
11	1		Type A flat washer 1/2 Narrow Steel
12	1		Hex lock nut with nylon insert 3/8-16 Steel Grade 5
13	1		3/8-16 Socket Head Shoulder Screw, 1/2" x 1.5"

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .00 = ±.01 ANGULAR = ± 1° .005 = ±.005	VEND	NAME	DATE	FIRST ROBOTICS COMPETITION	
	DRAWN	JO	12/23/2025		
DO NOT SCALE DRAWING	MATERIAL			SIZE C DWG NO. FE-00029 REV.	
BREAK ALL SHARP EDGES AND REMOVE BURRS				SCALE	1:5
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.					

D

D

C

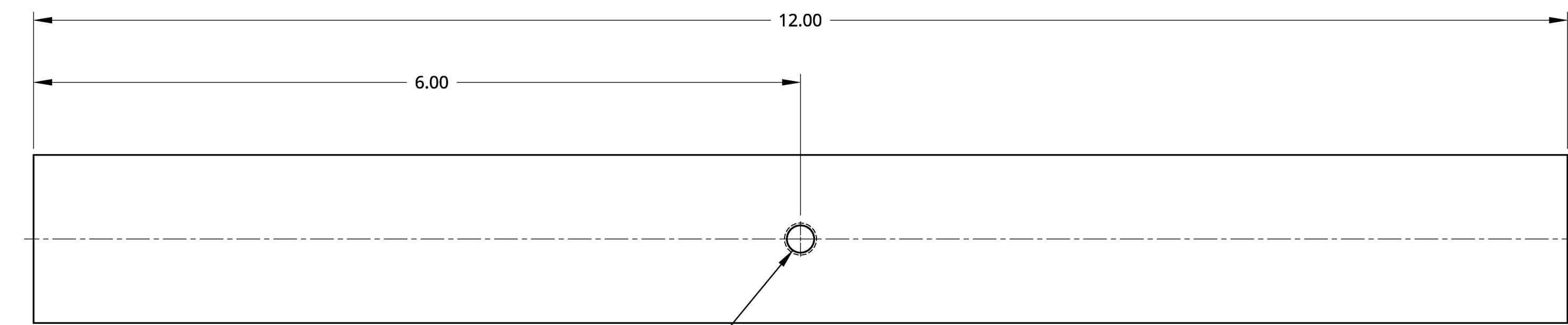
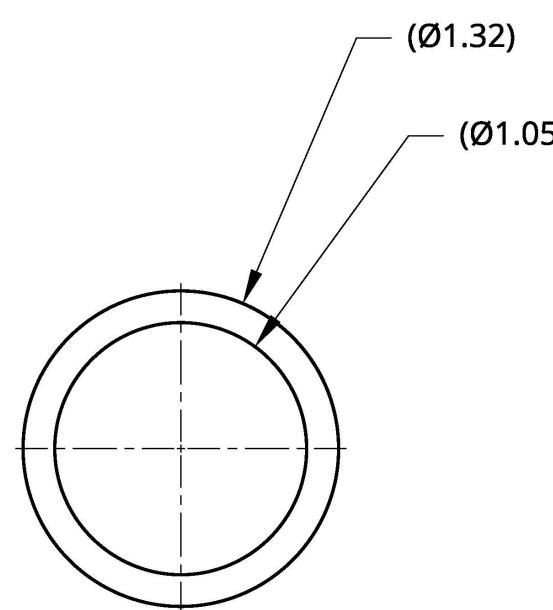
C

B

B

A

A



1/4-28 UNF-2B THRU ONE WALL

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES
.XX = $\pm .01$ ANGULAR = $\pm 1^\circ$
.XXX = $\pm .005$

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

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.

VEND	NAME	DATE
DRAWN	JO	12/19/2025

MATERIAL
1" SCHEDULE 40
6061 ALUMINUM
PIPE

TITLE	
SLIDE, GATE	

SIZE	DWG NO.
C	FE-00031

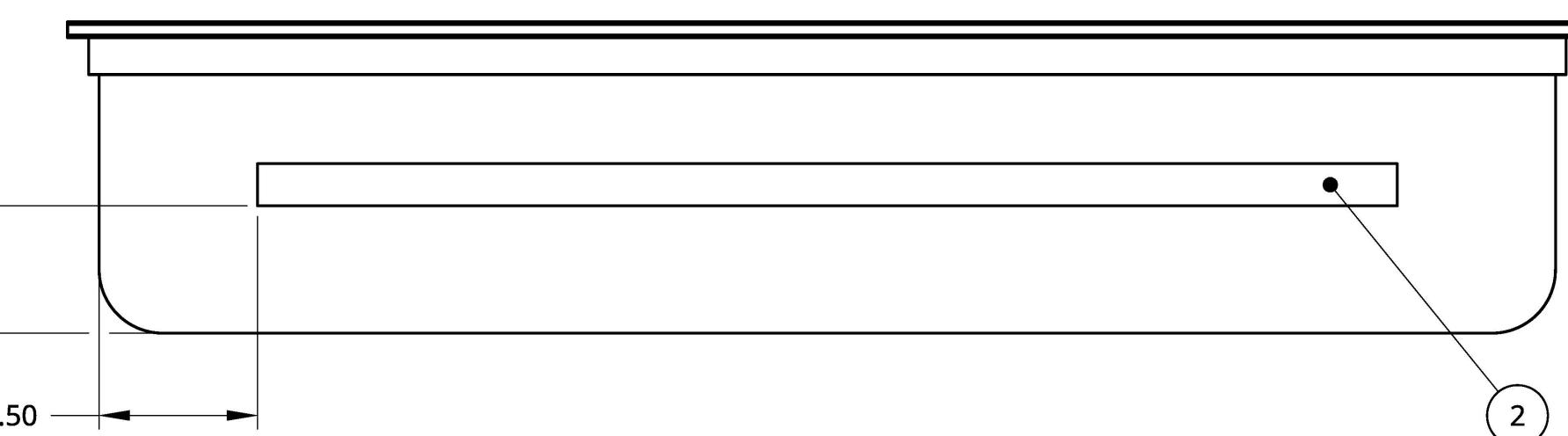
SCALE	REV.
-------	------

1.25:1	SHEET
--------	-------

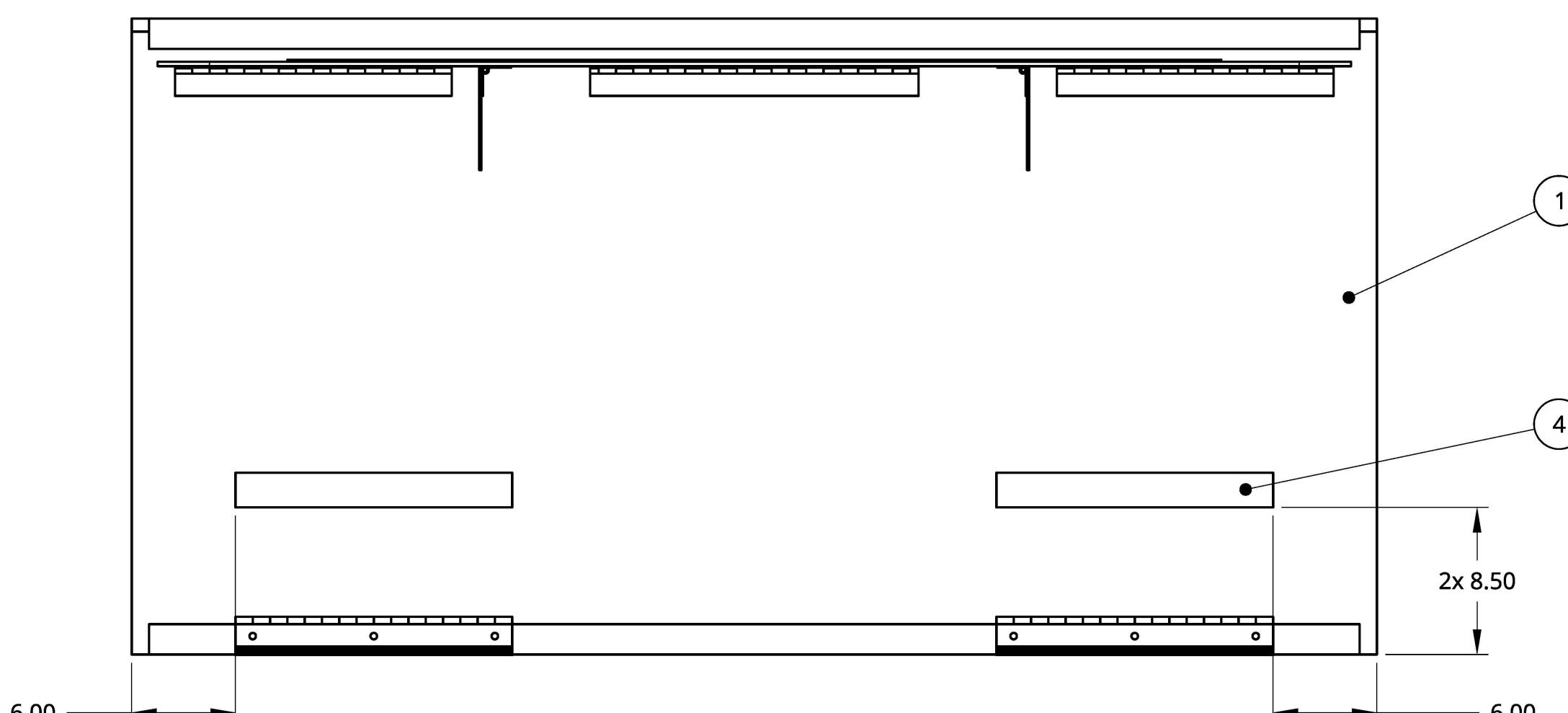
1 of 1	
--------	--



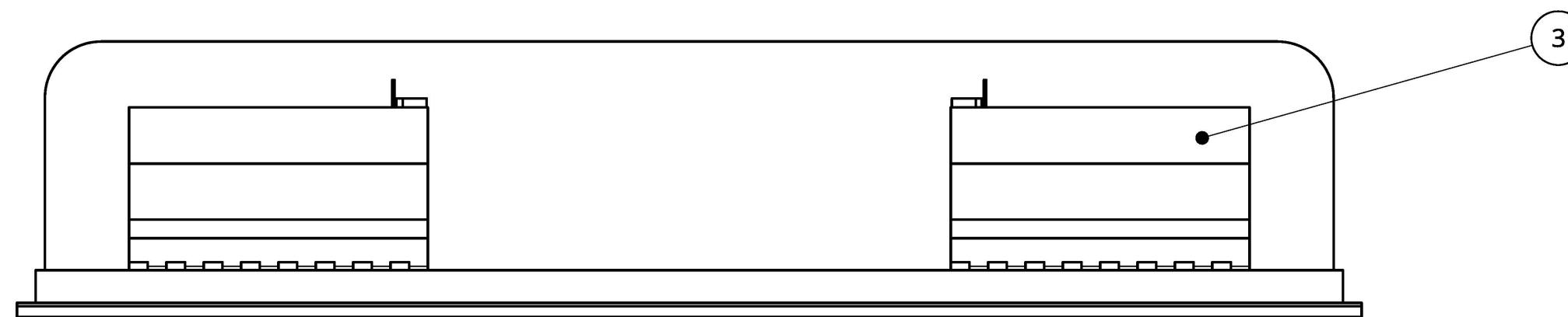
D



C



B



A

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES
.XX = $\pm .01$ ANGULAR = $\pm 1^\circ$
.XXX = $\pm .005$

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

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.

Item	Quantity	Part number	Description
1	1	FE-00004	End Panel Weldment
2	1		Loop Tape, 2in Wide, 54in Long
3	4		Hook Tape, 3in Wide, 16in Long
4	2		Hook Tape, 2in Wide, 16in Long
5	2		Loop Tape, 2in Wide, 16in Long

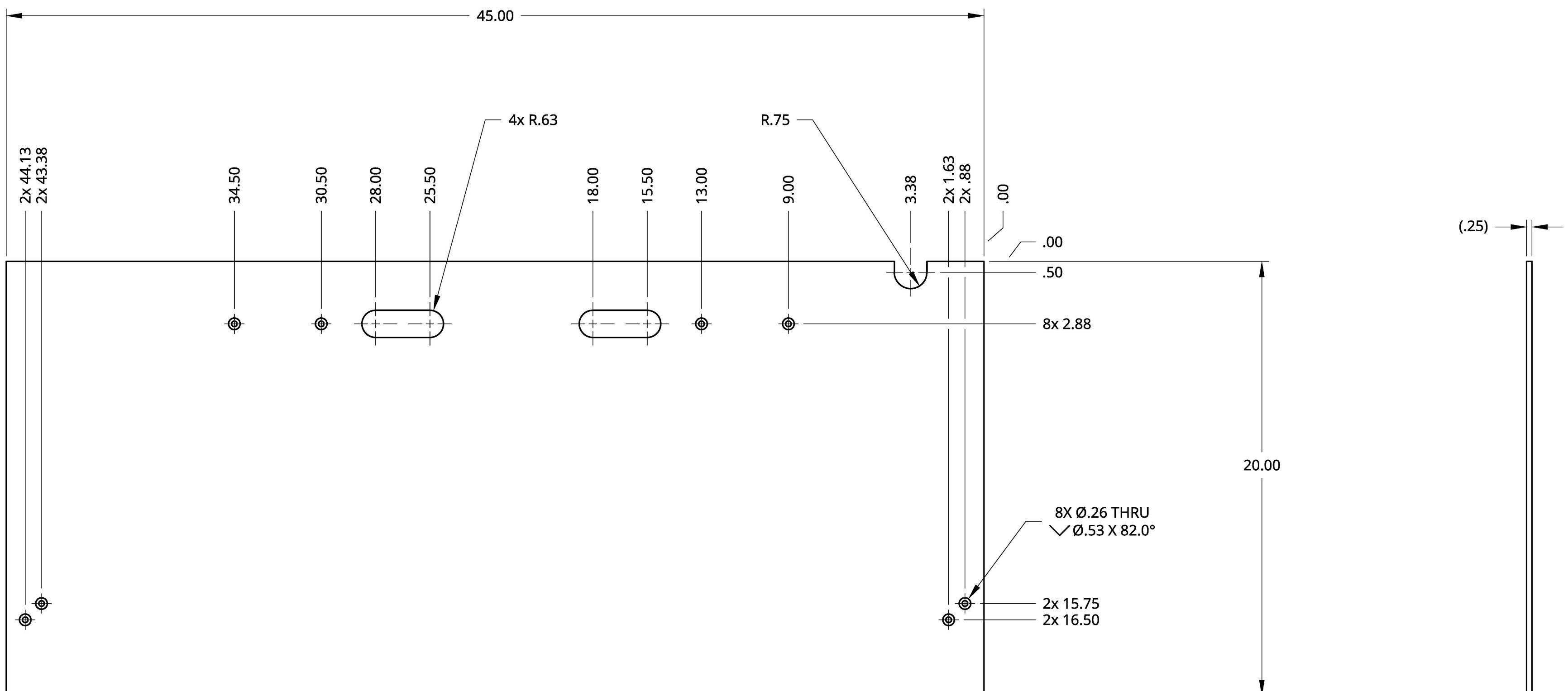
VEND	NAME	DATE	FIRST ROBOTICS COMPETITION
DRAWN	DF	12/18/2025	

MATERIAL	TITLE		
	SIZE	DWG NO.	REV.

SCALE	FE-00043	REV.
1:8		1 of 1

D

D



C

C

B

B

A

A

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES
XX = ±.01 ANGULAR = ± 1°
XXX = ±.005

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

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.

VEND NAME DATE

DRAWN JO 12/16/2025

MATERIAL

1/4"

POLYCARBONATE

CLEAR

FIRST
ROBOTICS
COMPETITION

FIELD PLASTIC "G"

FE-00044

1:4

1 of 1

D

D

C

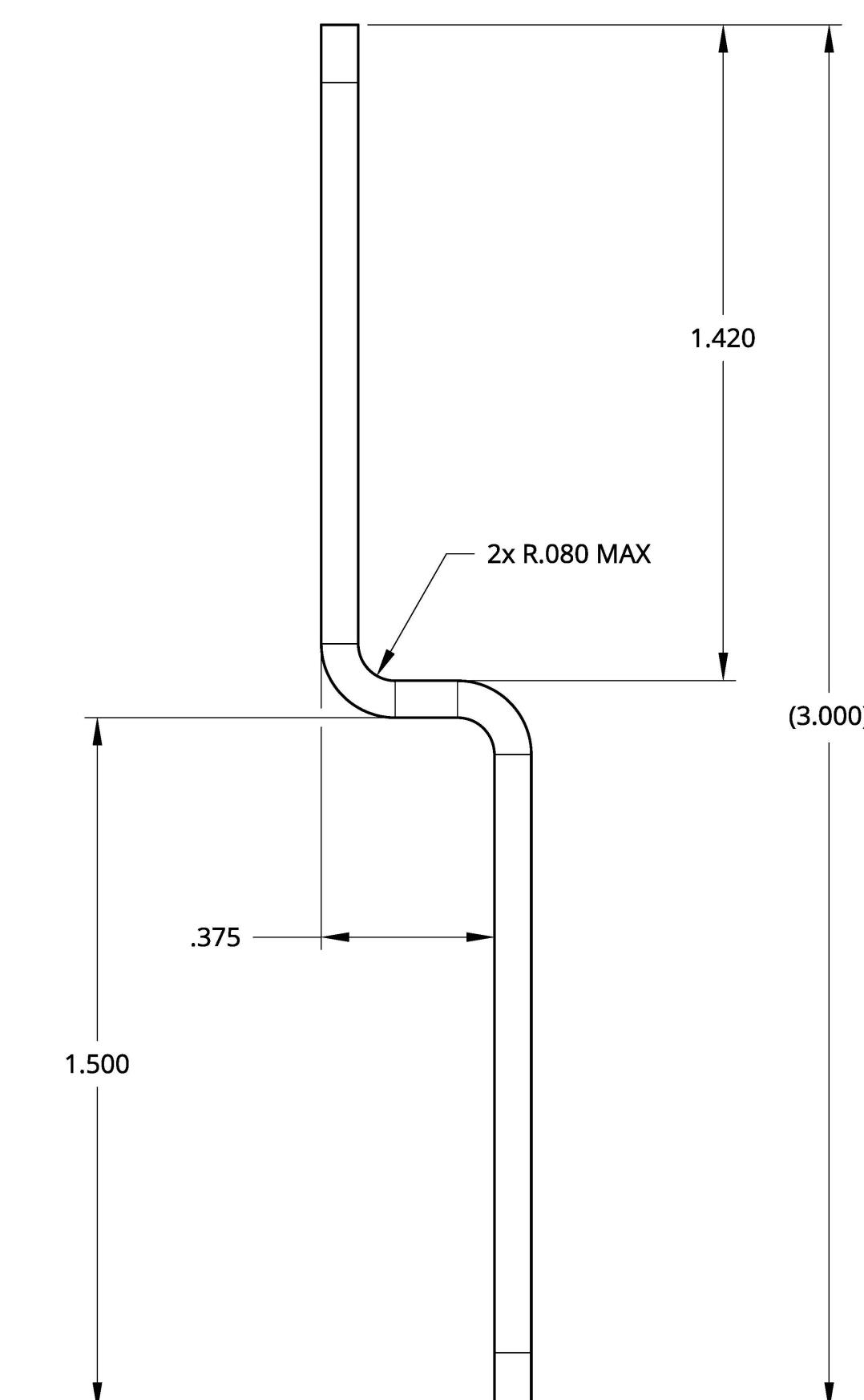
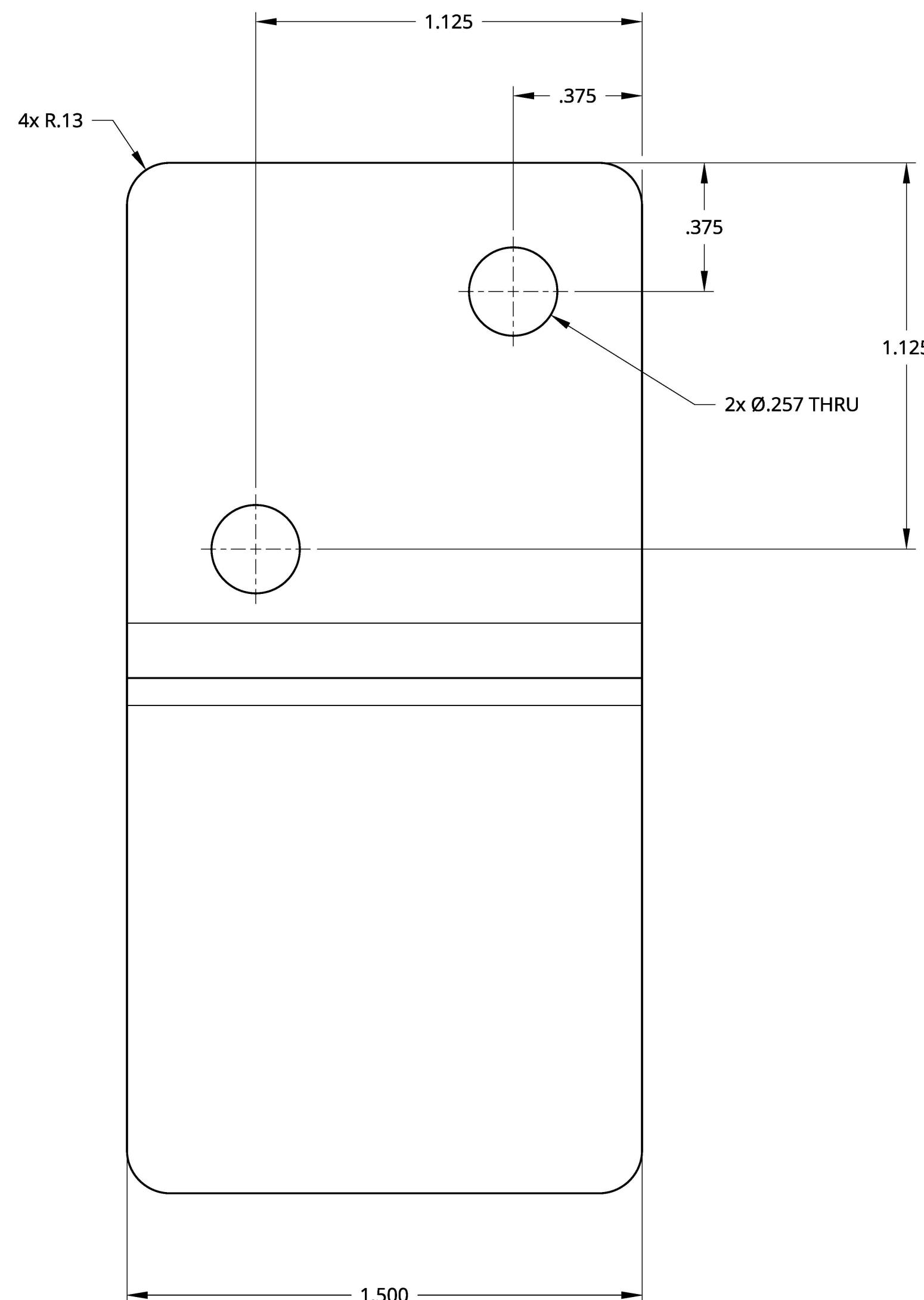
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES
XX = $\pm .01$ ANGULAR = $\pm 1^\circ$
XXX = $\pm .005$

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

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.

VEND NAME DATE
DRAWN JO 12/16/2025

MATERIAL

12 GAUGE 5052
ALUMINUM

FIRST[®]
ROBOTICS
COMPETITION

TITLE
LOWER Z-BRACKET, GATE PLASTIC

SIZE C DWG NO. FE-00045 REV.

SCALE 3:1 SHEET 1 of 1

D

D

C

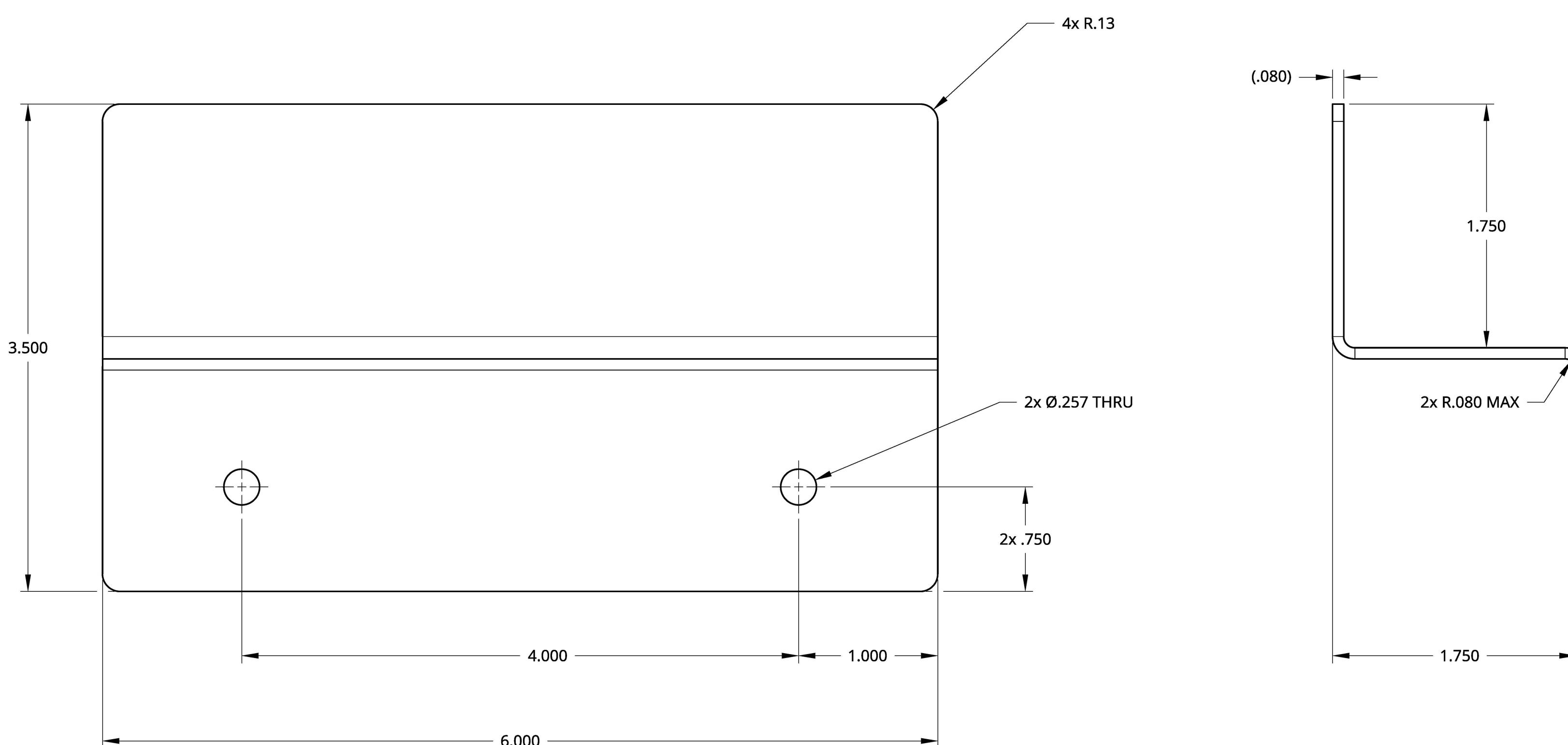
C

B

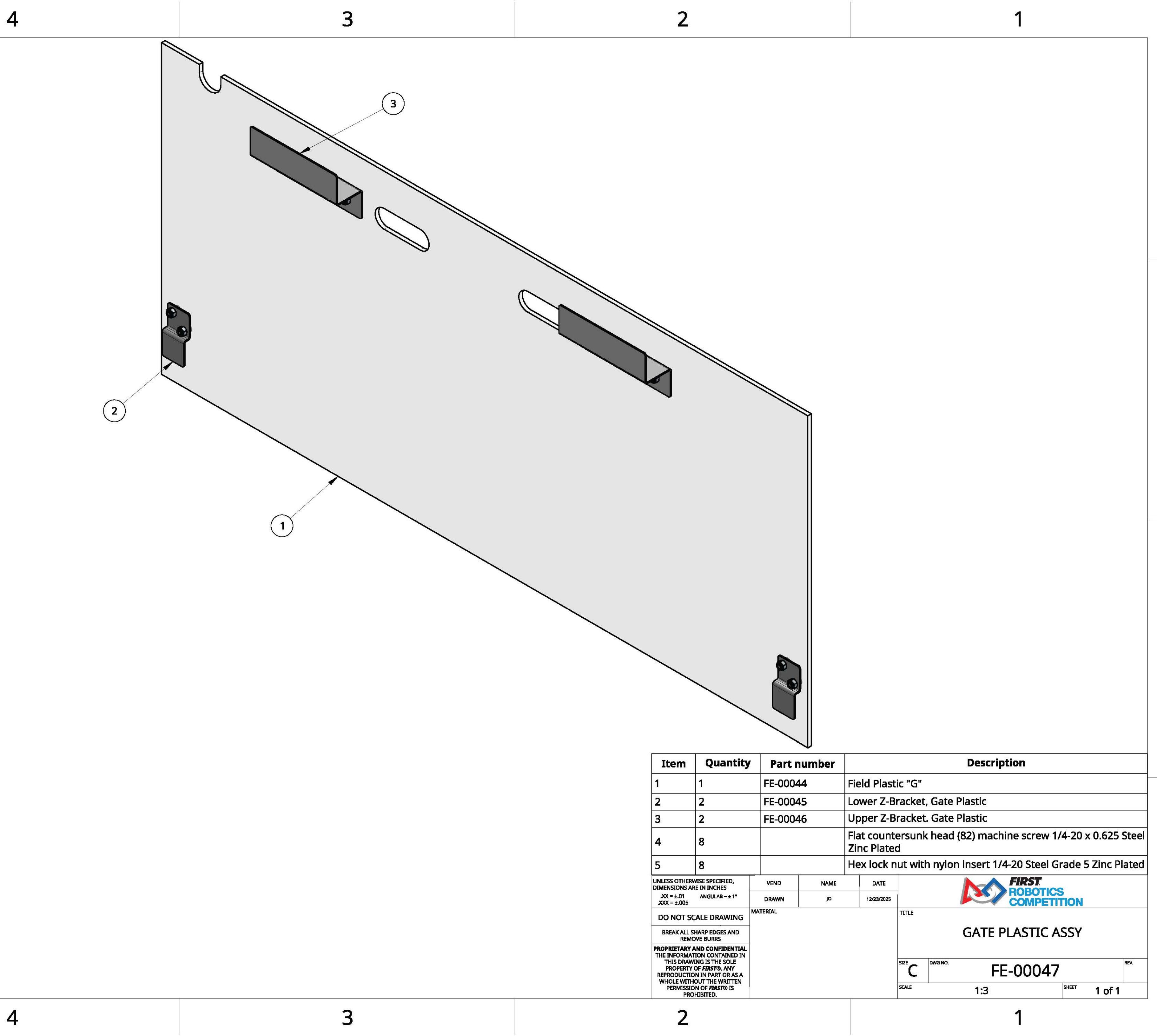
B

A

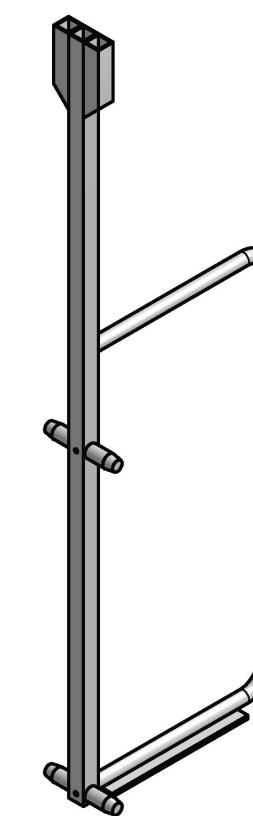
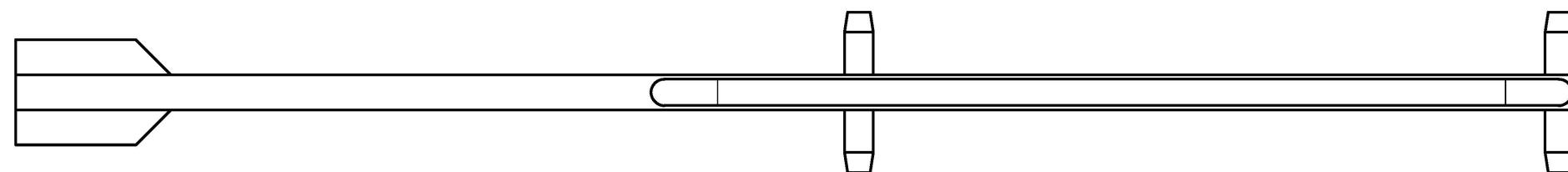
A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005		VEND	NAME	DATE	FIRST ROBOTICS COMPETITION	
		DRAWN	JO	12/16/2025		
DO NOT SCALE DRAWING						TITLE
BREAK ALL SHARP EDGES AND REMOVE BURRS						UPPER Z-BRACKET. GATE PLASTIC
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.						SIZE C DWG NO. FE-00046 REV.
12 GAUGE 5052 ALUMINUM						SCALE 1.5:1 SHEET 1 of 1

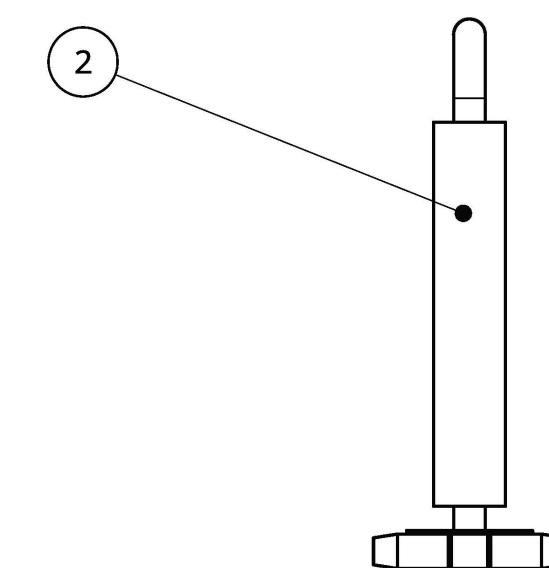
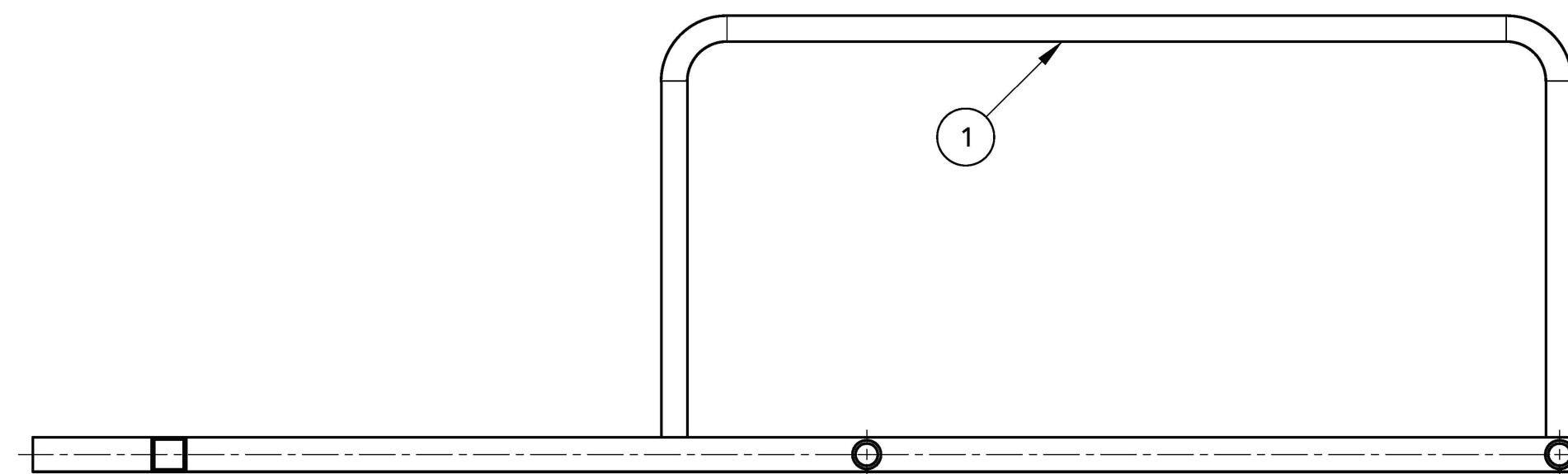


D



SCALE 1:16

C



B

A

D

C

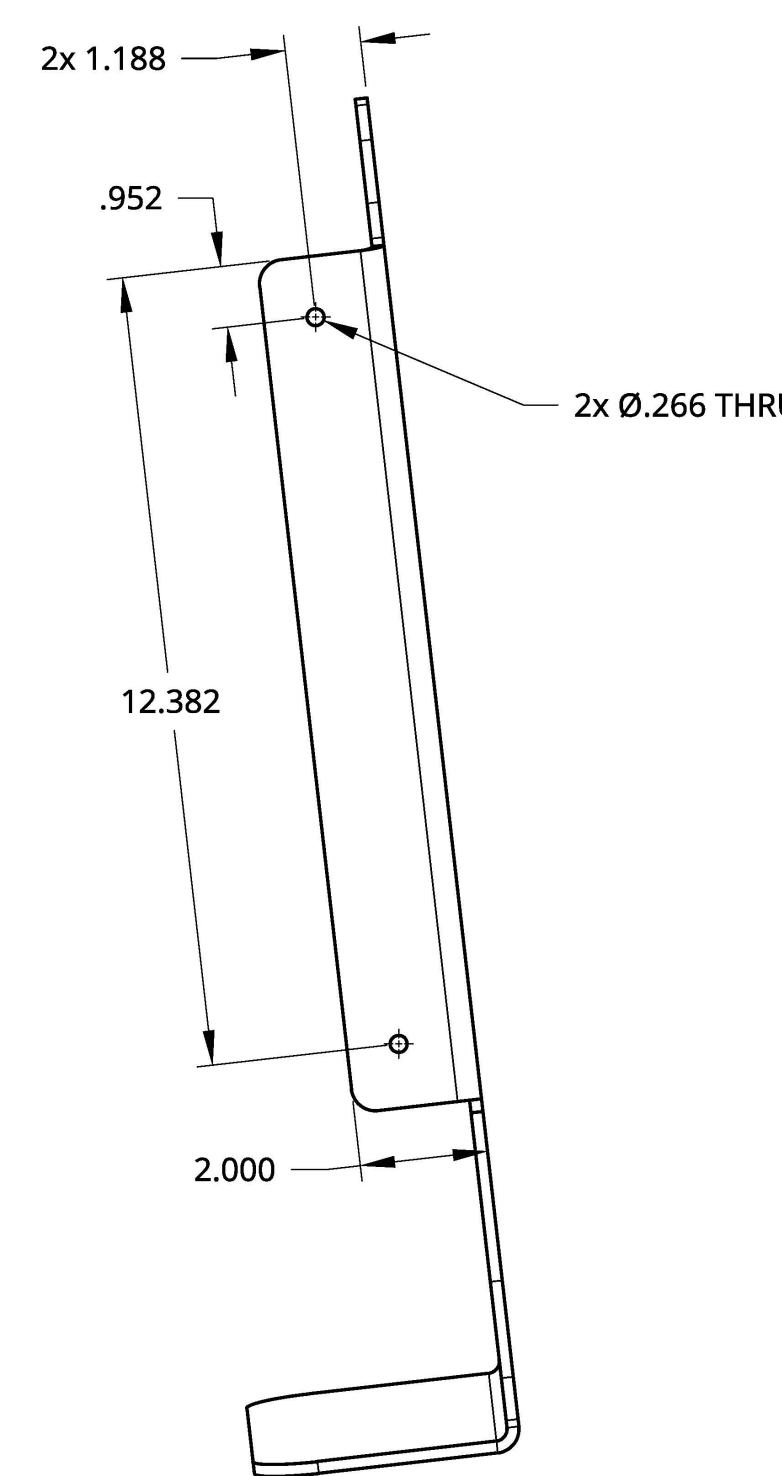
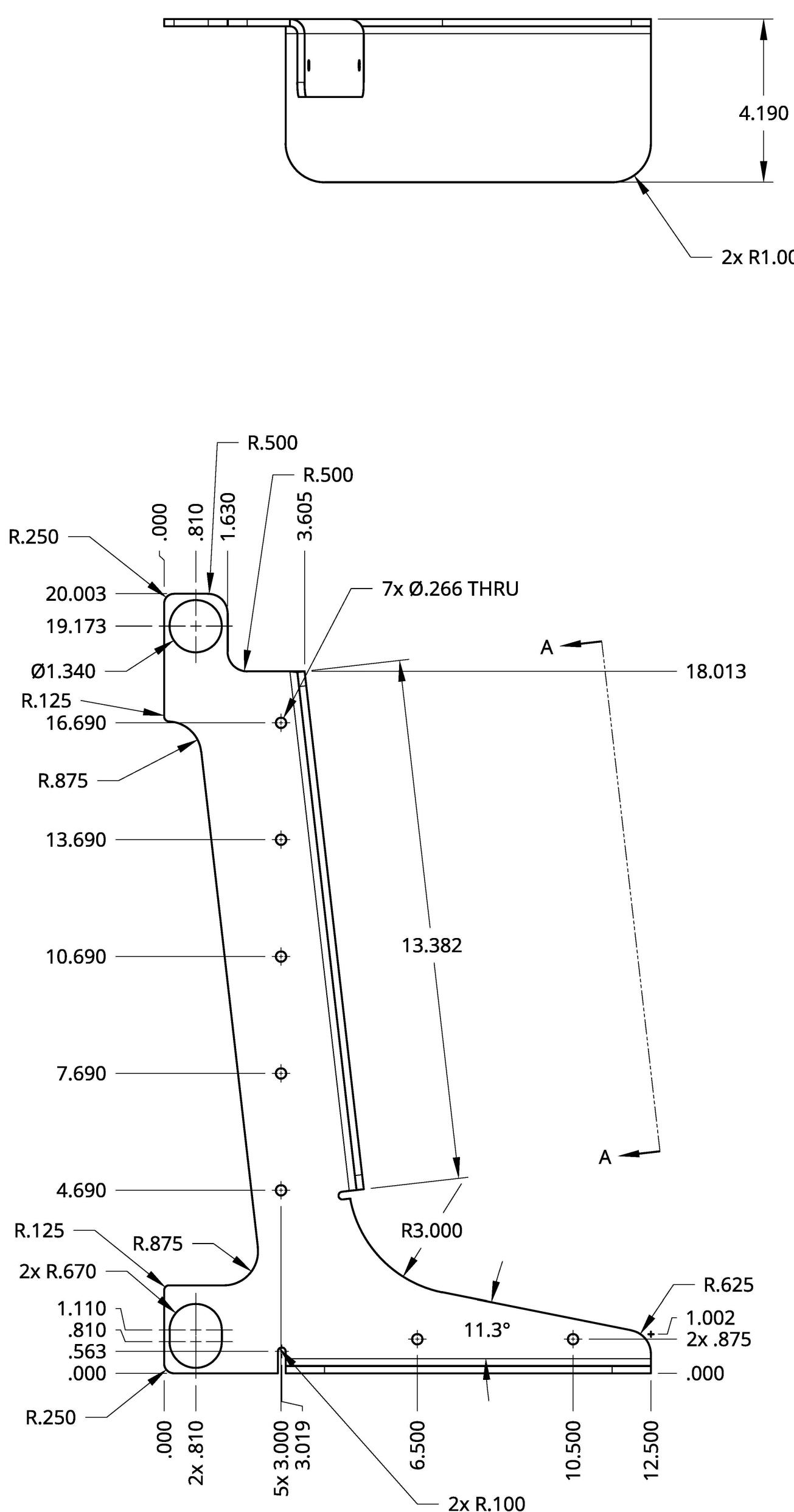
B

A

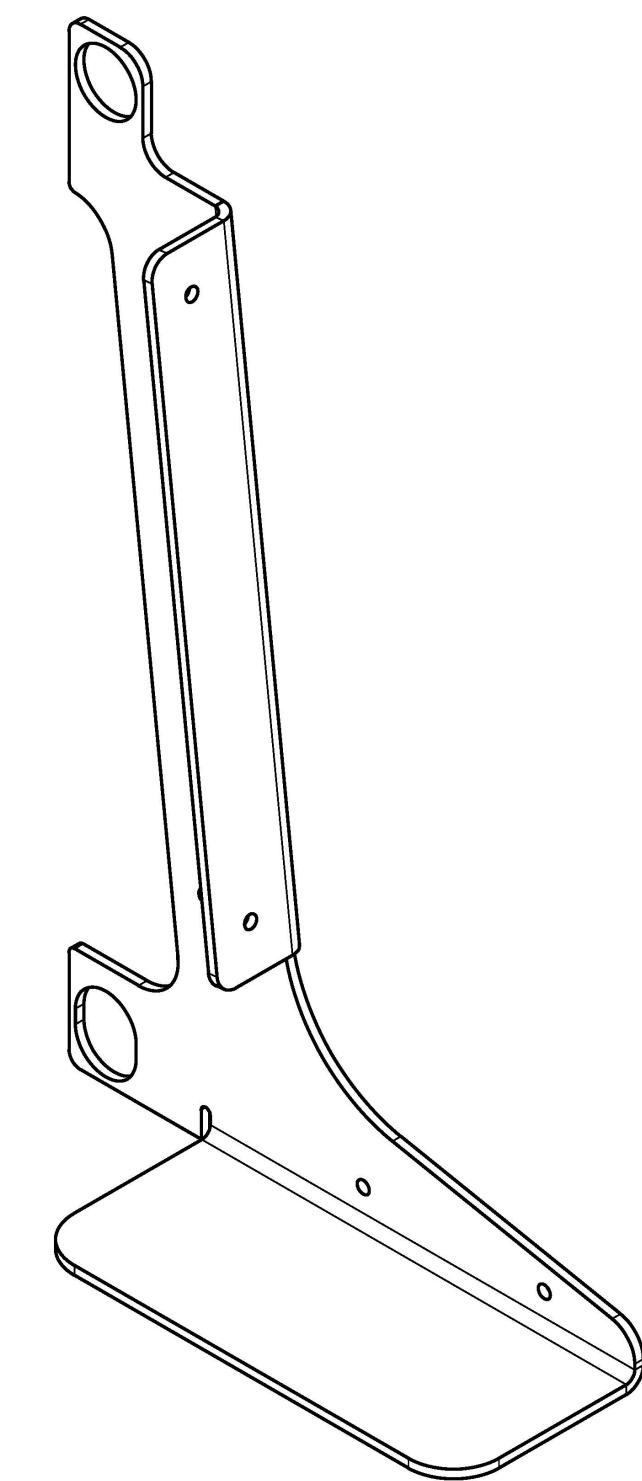
Item	Quantity	Part number	Description
1	1	FE-00001	Drivers Station Support Weldment
2	1		Hook Tape, 3in Wide, 16in Long

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND	NAME	DATE	FIRST ROBOTICS COMPETITION	
	DRAWN	JO	12/16/2025		
DO NOT SCALE DRAWING	MATERIAL		TITLE		
BREAK ALL SHARP EDGES AND REMOVE BURRS			DRIVER STATION SUPPORT ASSY		
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.	SIZE	DWG NO.	REV.		
	C	FE-00048			
SCALE	1:8	SHEET	1 of 1		

D



Auxiliary A - A



C

D

B

C

A

B

A

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES
XX = ±.01 ANGULAR = ± 1°
XXX = ±.005

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

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.

BEND NAME DATE
DRAWN JO 10/16/2025

MATERIAL

3/16" 5052
ALUMINUM

FIRST
ROBOTICS
COMPETITION

OUTRIGGER BASE

SIZE C DWG NO. FE-00050

REV.

SCALE 1:3

SHEET 1 of 1

4

3

2

1

D

D

C

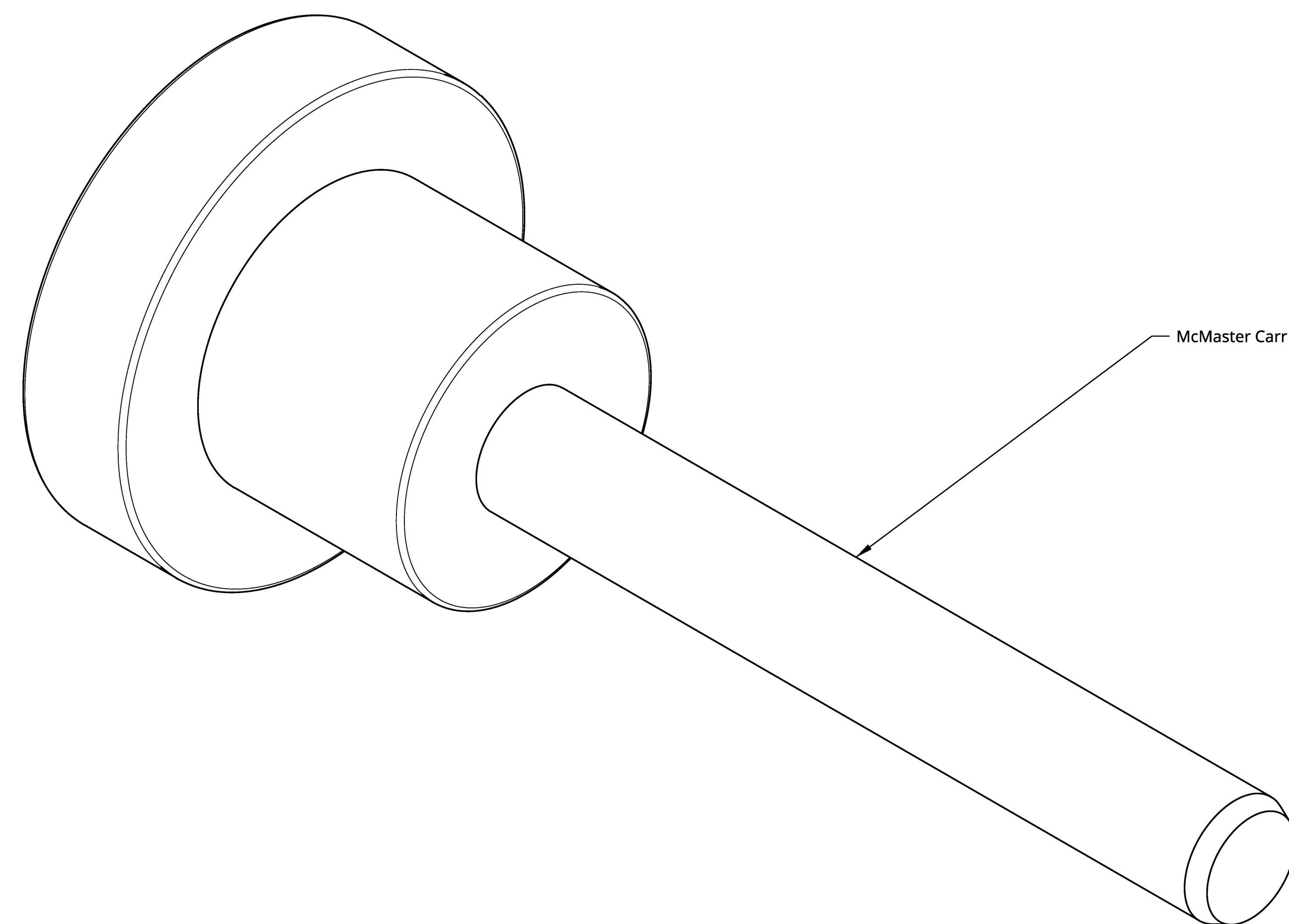
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .00 = ±.01 ANGULAR = ± 1° .000 = ±.005	VEND DRAWN	NAME JO	DATE 12/23/2025	FIRST ROBOTICS COMPETITION	
DO NOT SCALE DRAWING	MATERIAL			TITLE	KNOB, ROUND KNURLED WITH THREADED STUD MCMASTER CARR 6091K61
BREAK ALL SHARP EDGES AND REMOVE BURRS					
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.				SIZE C	DWG NO. FE-00054
				REV.	
	SCALE	6:1		SHEET	1 of 1

4

3

2

1

D

D

C

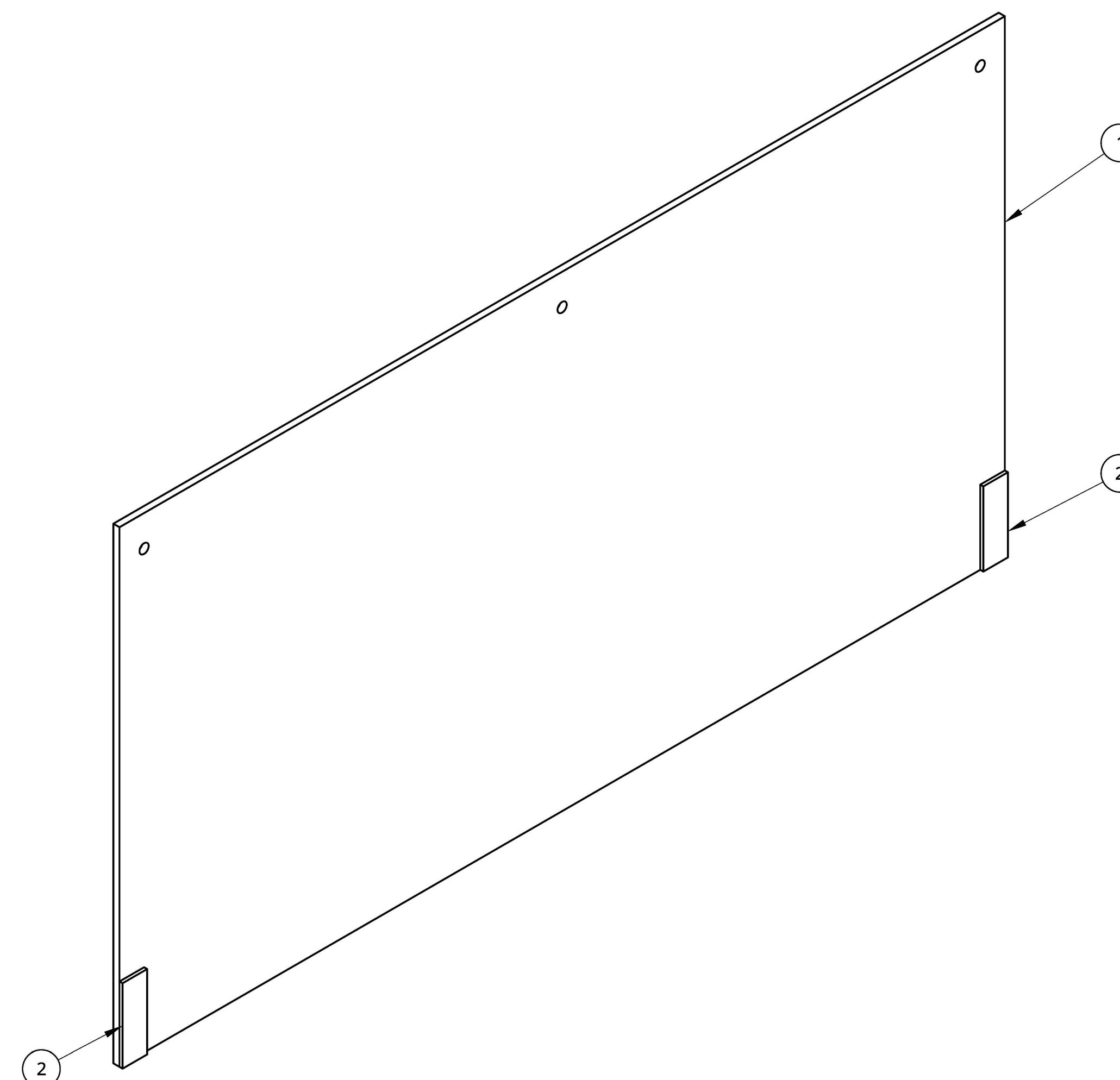
C

B

B

A

A



Item	Quantity	Part number	Description
1	1	FE-00008	Field Plastic "A"
2	2		Hook Tape, 1in Wide, 3in Long

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND DRAWN	NAME JO	DATE 12/23/2025	FIRST ROBOTICS COMPETITION
DO NOT SCALE DRAWING BREAK ALL SHARP EDGES AND REMOVE BURRS	MATERIAL	TITLE FIELD PLASTIC "A" WITH HOOK		
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.	SIZE C	DWG NO. FE-00055	REV.	
SCALE 1:3	SHEET 1 of 1			

4

3

2

1

D

D

C

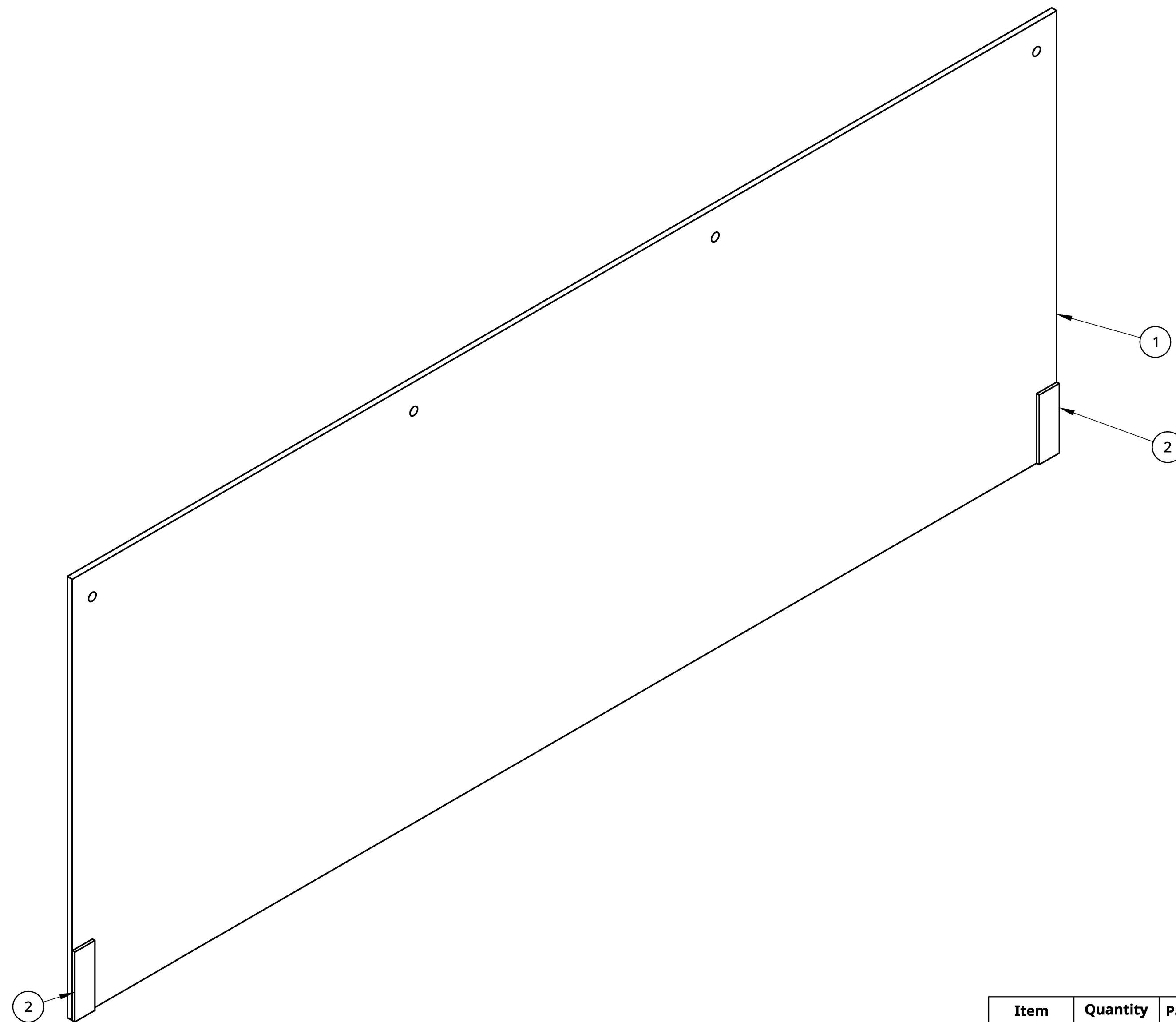
C

B

B

A

A



Item	Quantity	Part number	Description
1	1	FE-00009	Field Plastic "B"
2	2		Hook Tape, 1in Wide, 3in Long

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND	NAME	DATE	 FIRST ROBOTICS COMPETITION
DO NOT SCALE DRAWING	DRAWN	JO	12/23/2025	
BREAK ALL SHARP EDGES AND REMOVE BURRS				
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.				TITLE FIELD PLASTIC "B" WITH HOOK
SIZE	DWG NO.			
C	FE-00056			REV.
SCALE	1:3			SHEET 1 of 1

4

3

2

1

D

D

C

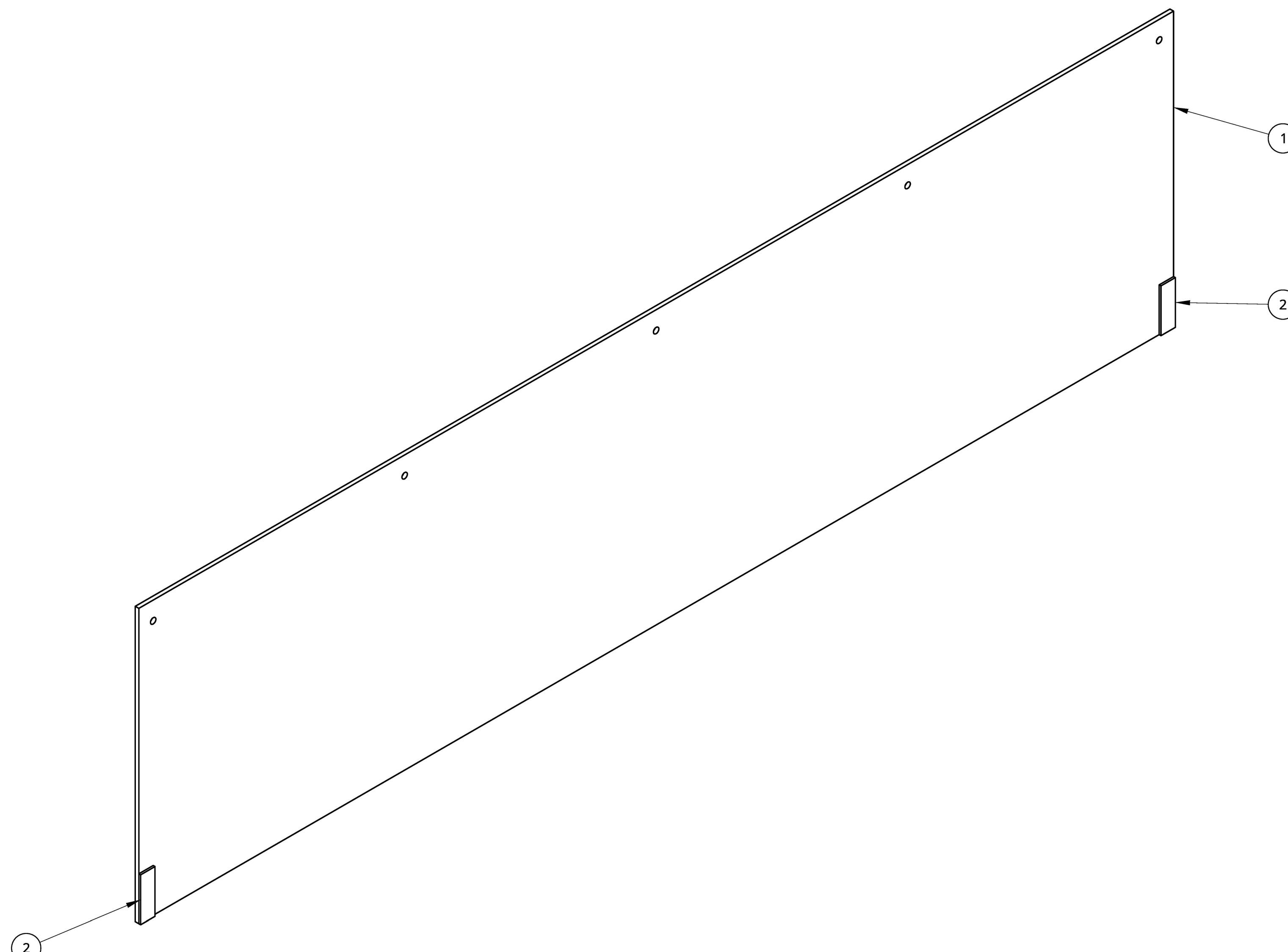
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES
.XX = ±.01 ANGULAR = ± 1°
.XXX = ±.005

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

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.

Item	Quantity	Part number	Description
1	1	FE-00010	Field Plastic "C"
2	2		Hook Tape, 1in Wide, 3in Long

 FIRST
ROBOTICS
COMPETITION

MATERIAL

TITLE

FIELD PLASTIC "C" WITH HOOK

SIZE C DWG NO. FE-00057 REV.

SCALE 1:4 SHEET 1 of 1

D

D

C

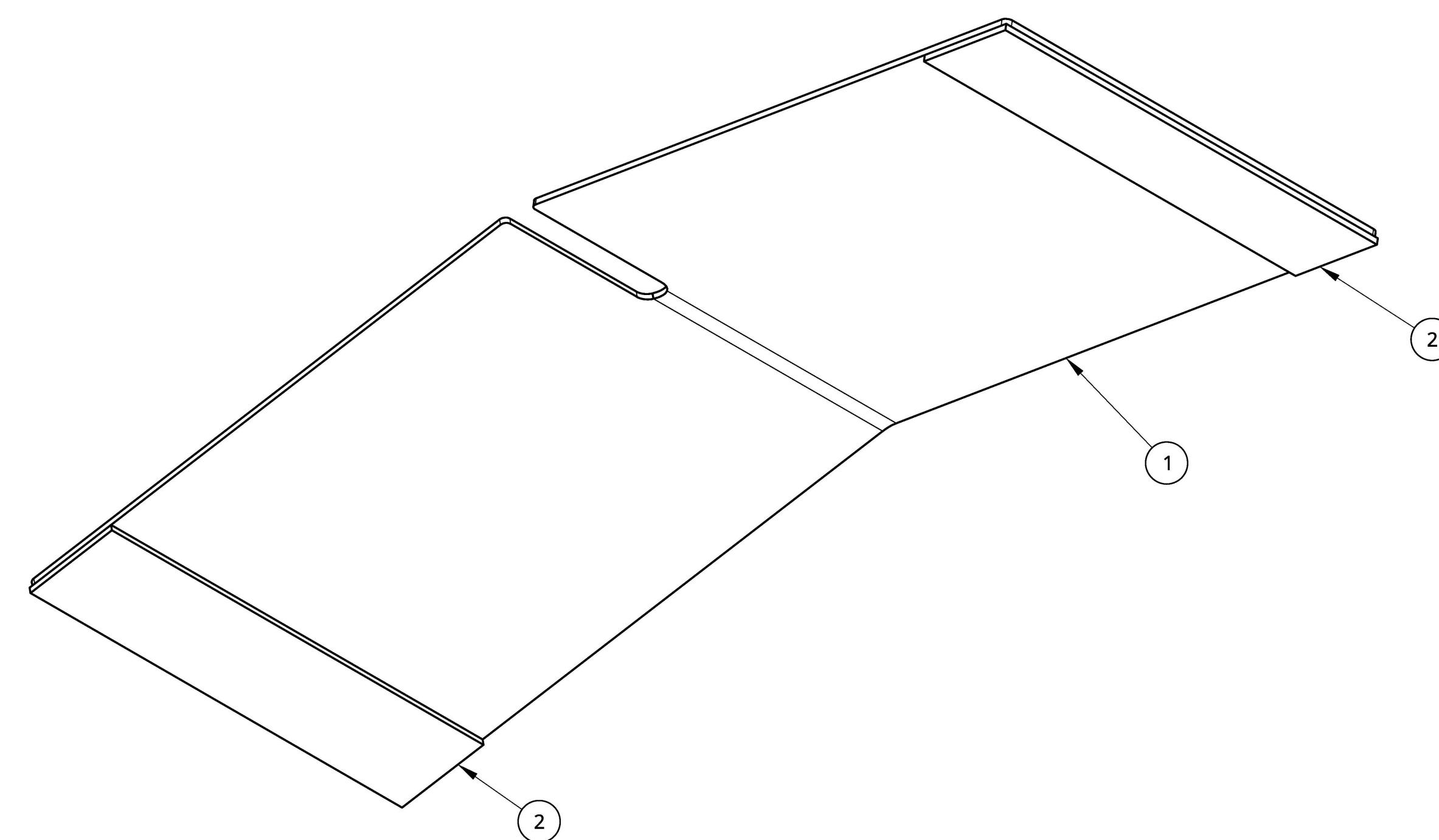
C

B

B

A

A



Item	Quantity	Part number	Description
1	1	FE-00015	Trip Guard
2	2		Hook Tape, 2in Wide, 9in Long

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND	NAME	DATE	 TRIP GUARD WITH HOOK
DO NOT SCALE DRAWING	DRAWN	JO	12/23/2025	
BREAK ALL SHARP EDGES AND REMOVE BURRS	MATERIAL			
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.	SIZE	DWG NO.	REV.	
	C	FE-00058		
SCALE	1:2	SHEET	1 of 1	

D

D

C

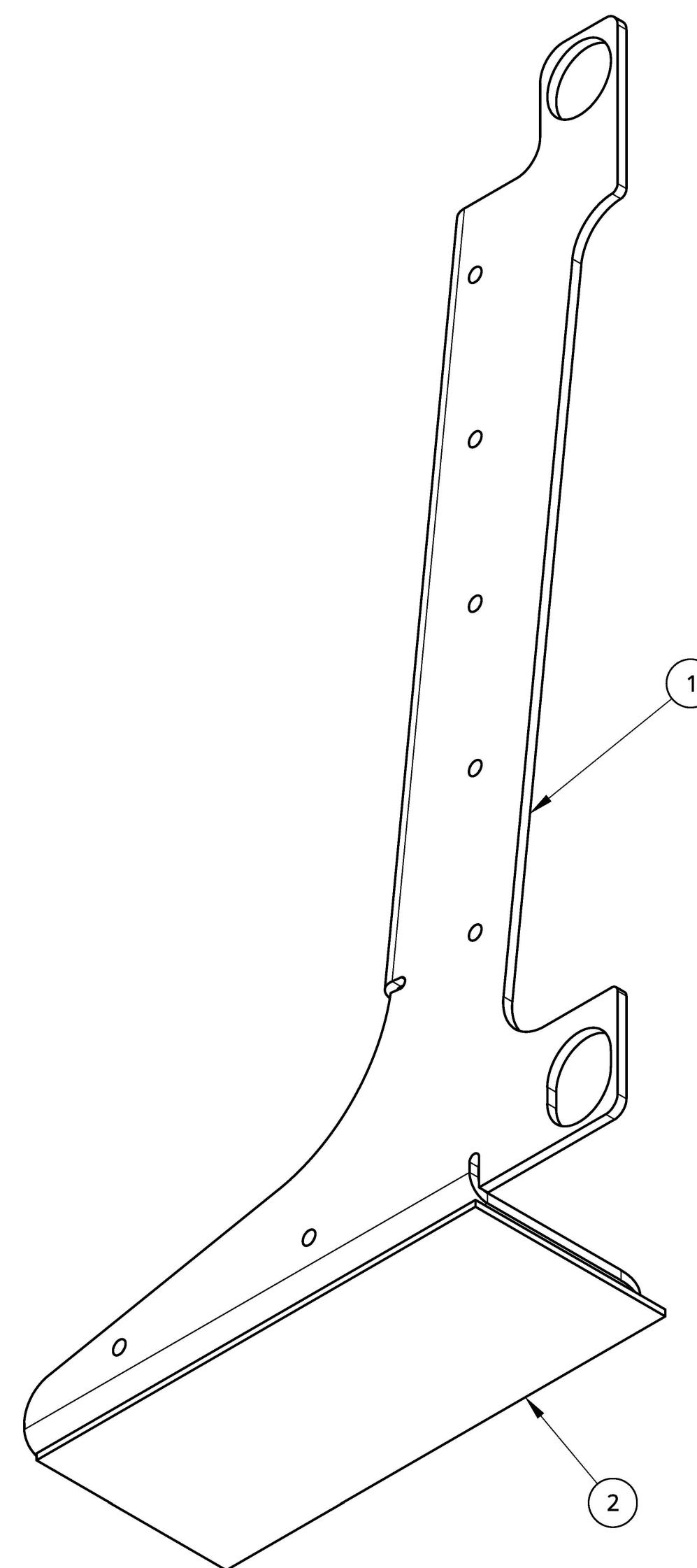
C

B

B

A

A



Item	Quantity	Part number	Description
1	1	FE-00050	Outrigger Base
2	1		Hook Tape, 4in Wide, 9.25in Long

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND	NAME	DATE	 OUTRIGGER ASSY
DO NOT SCALE DRAWING	DRAWN	JO	12/23/2025	
BREAK ALL SHARP EDGES AND REMOVE BURRS	MATERIAL			
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.	TITLE			
SIZE	DWG NO.			REV.
C	FE-00059			
SCALE	1:2	SHEET	1 of 1	

REVISIONS

REV	DESCRIPTION	DATE	APPROVED
A	Recreated drawing, loosened tolerances.	2025-09-25	OCD

D

D

C

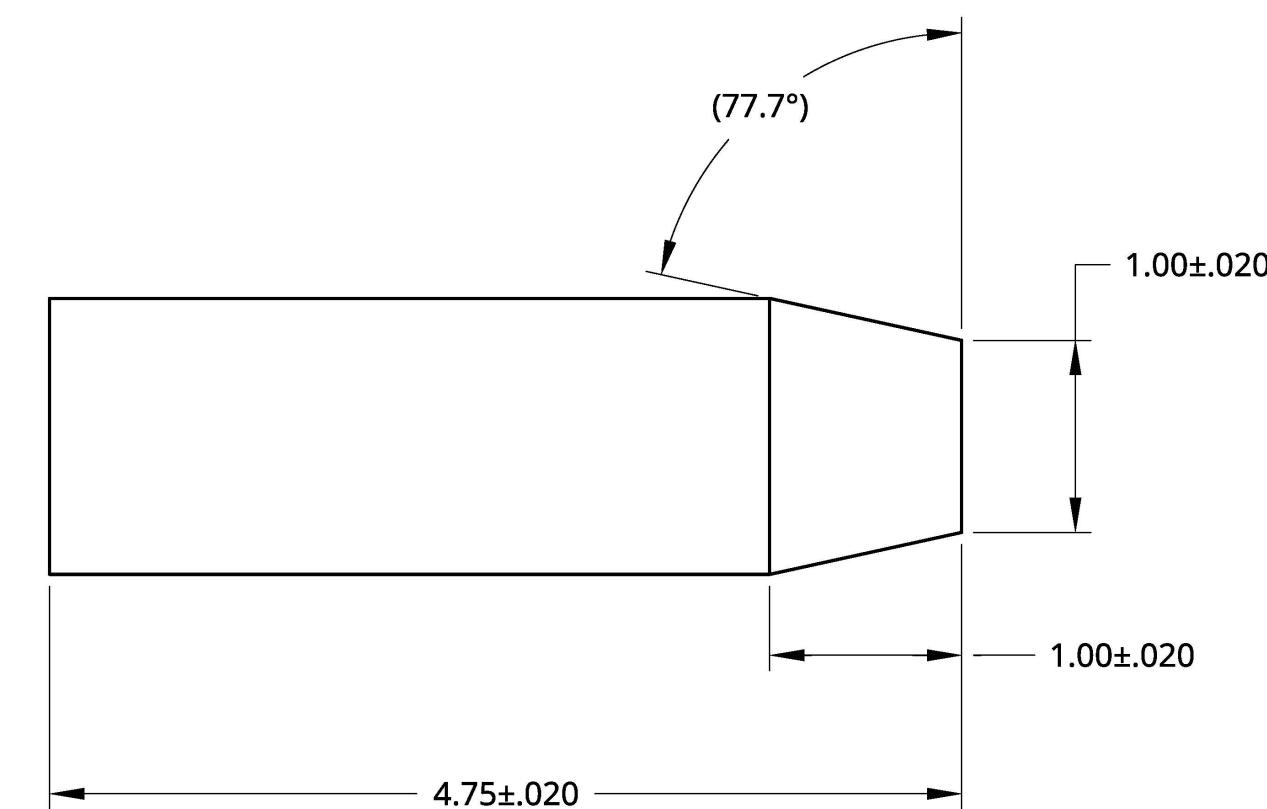
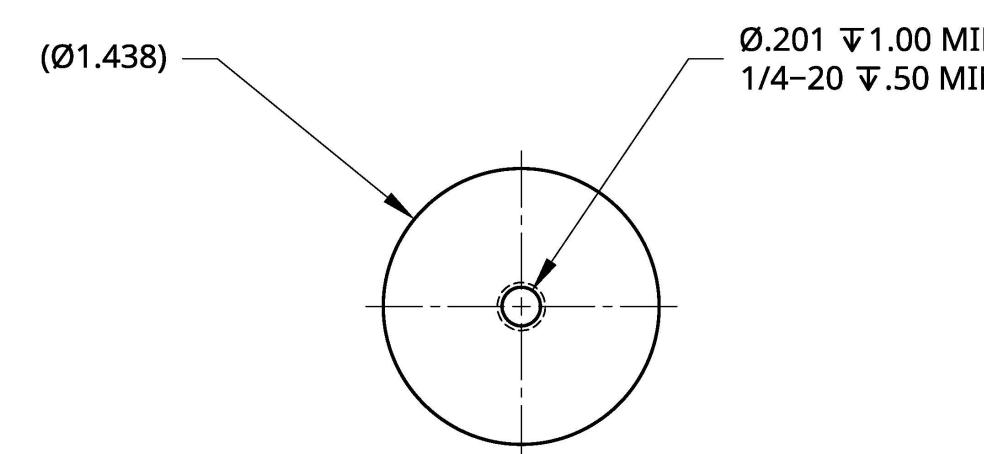
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES
.XX = ±.01 ANGULAR = ± 1°
.XXX = ±.005

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

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.

VEND
DRAWN

NAME
OCD

DATE
09/25/2025

MATERIAL
1-7/16IN ROUND
BAR, 6061
ALUMINUM

FIRST
ROBOTICS
COMPETITION

TITLE
TOP RAIL, POST

SIZE
C

DWG NO.
FE-00060

REV
A

SCALE
1:1

SHEET
1 of 1

D

D

C

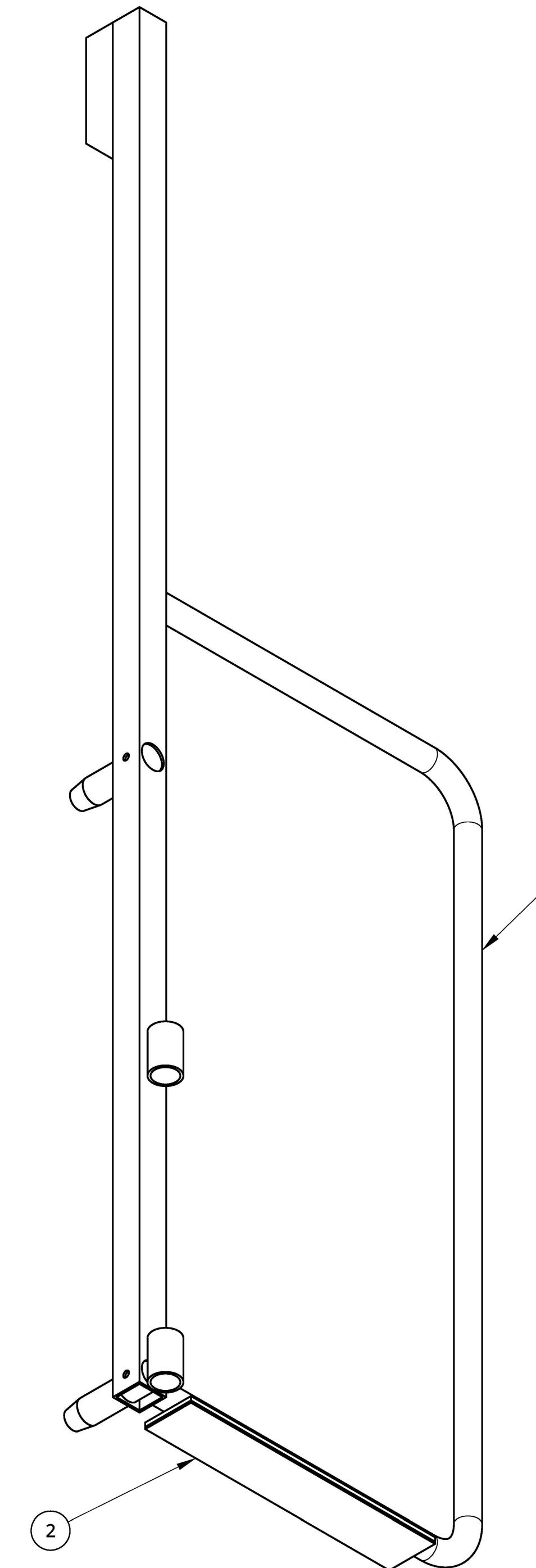
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES
.XX = ±.01 ANGULAR = ± 1°
.XXX = ±.005

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

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.

Item	Quantity	Part number	Description
1	1	FE-00062	Corner Support, Left Weldment
2	1		Hook Tape, 3in Wide, 16in Long

VEND NAME DATE

DRAWN JO 12/24/2025

MATERIAL

TITLE



CORNER SUPPORT, LEFT ASSEMBLY

SIZE DWG NO. REV.

C FE-00061

SCALE 1:5 SHEET 1 of 1

D

D

C

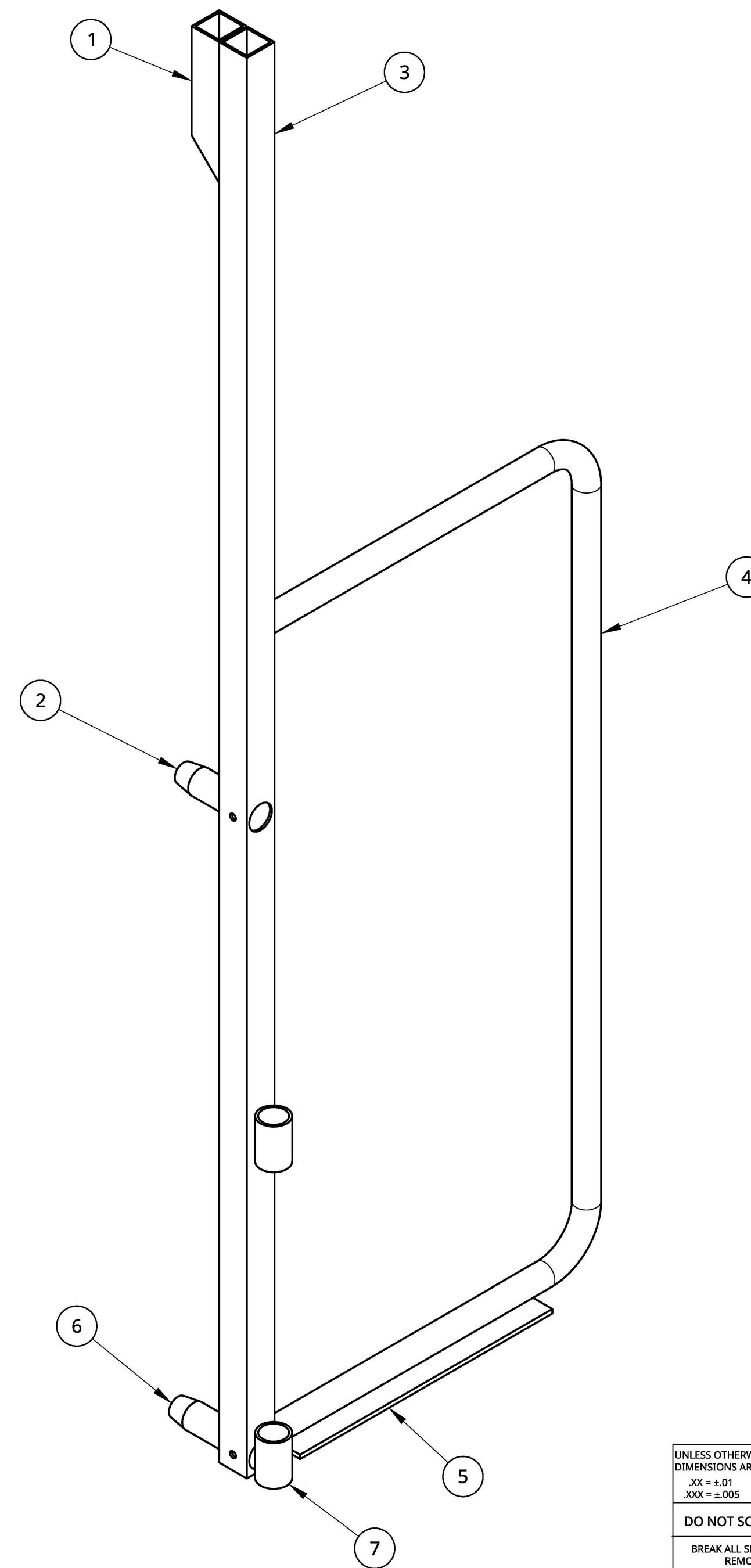
C

B

B

A

A



Item	Quantity	Part number	Description
1	1	FE-00062-01	1 3/4" x 1 3/4" x 1/8" 6061 Aluminum Tubing
2	1	FE-00062-02	1 7/16" Dia. 6061 Aluminum Solid Rod
3	1	FE-00062-03	1 3/4" x 1 3/4" x 1/8" 6061 Aluminum Tubing
4	1	FE-00062-04	1" Schedule 40 Aluminum Tube
5	1	FE-00062-05	3" x 1/4" 6061 Aluminum Bar
6	1	FE-00062-06	1 7/16" Dia. 6061 Aluminum Solid Rod
7	2	FE-00062-07	1 1/4" Schedule 40 Aluminum Tube

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES
.XX = $\pm .01$ ANGULAR = $\pm 1^\circ$
.XXX = $\pm .005$

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

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.

VEND NAME DATE
DRAWN JO 12/24/2025

MATERIAL

TITLE



CORNER SUPPORT, LEFT WELDMENT

SIZE C DWG NO. FE-00062 REV.

SCALE 1:5 SHEET 1 of 8

D

D

C

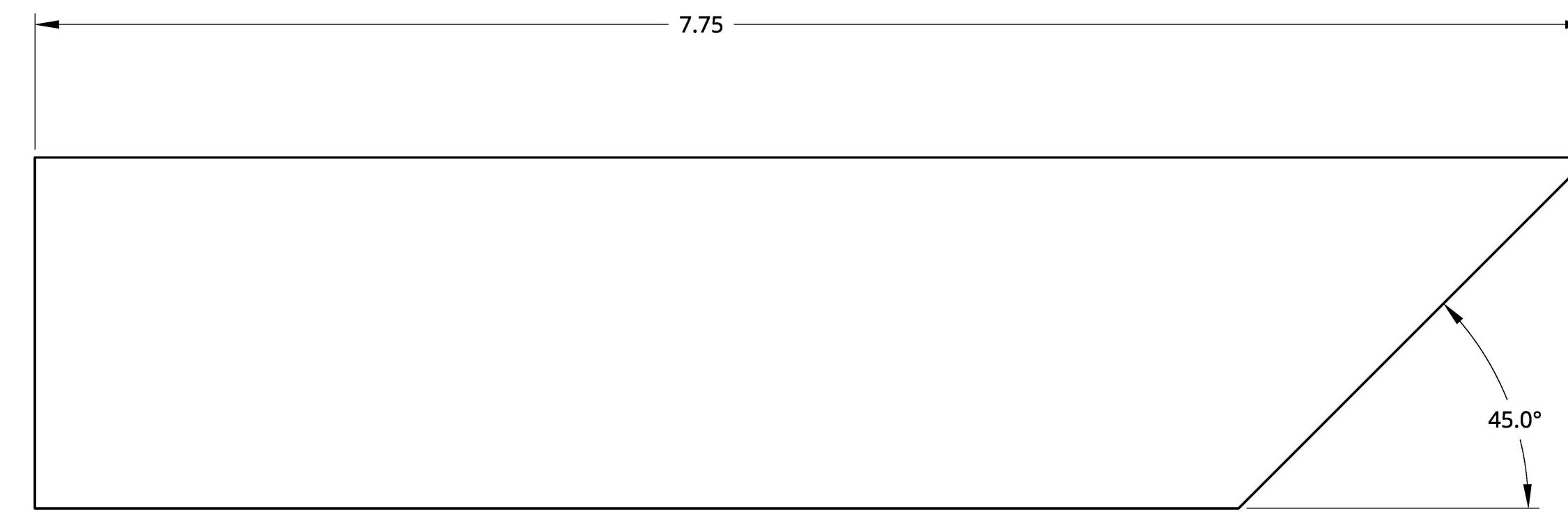
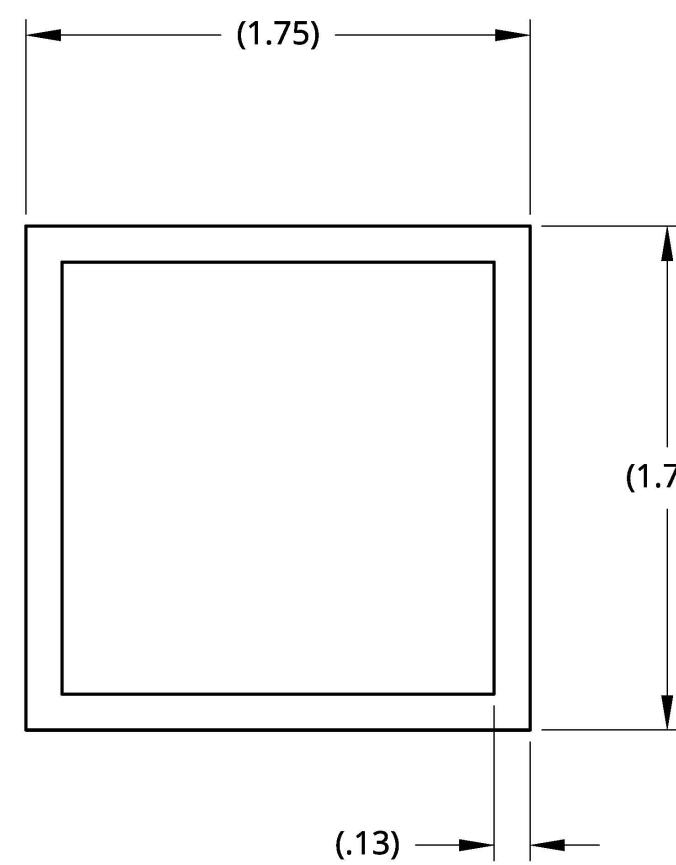
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005				VEND	NAME	DATE	FIRST ROBOTICS COMPETITION					
				DRAWN	JO	12/24/2025						
DO NOT SCALE DRAWING				MATERIAL 1 3/4" X 1 3/4" X 1/8" 6061 ALUMINUM TUBING			TITLE 1 3/4" X 1 3/4" X 1/8" 6061 ALUMINUM TUBING					
BREAK ALL SHARP EDGES AND REMOVE BURRS								SIZE	DWG NO.			
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.								FE-00062-01	REV.			
				SCALE	1.5:1		SHEET	2 of 8				

D

D

C

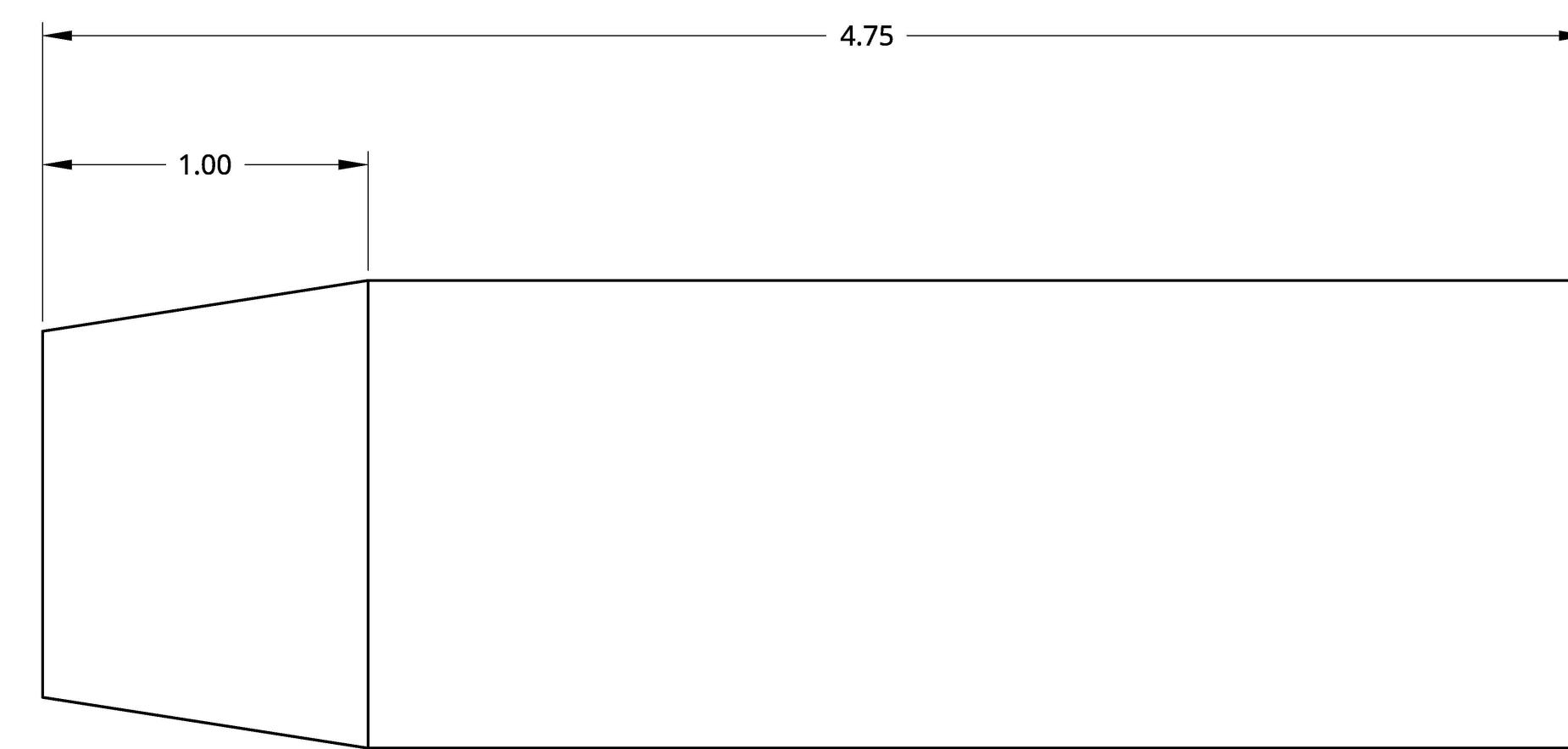
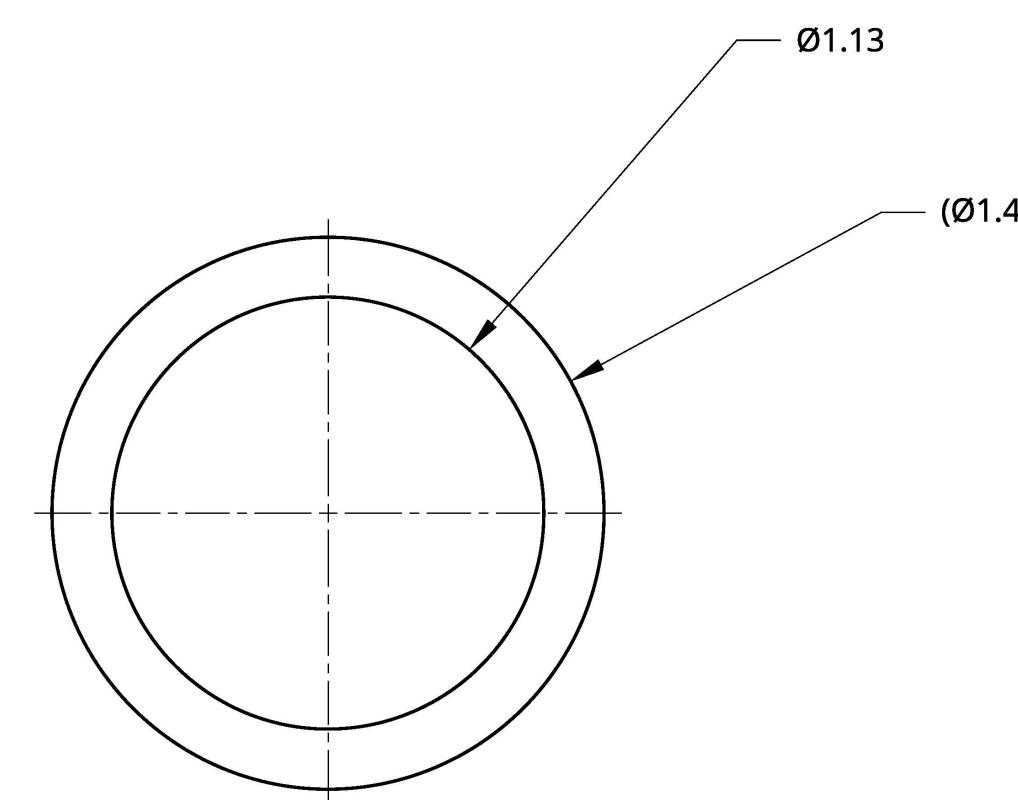
C

B

B

A

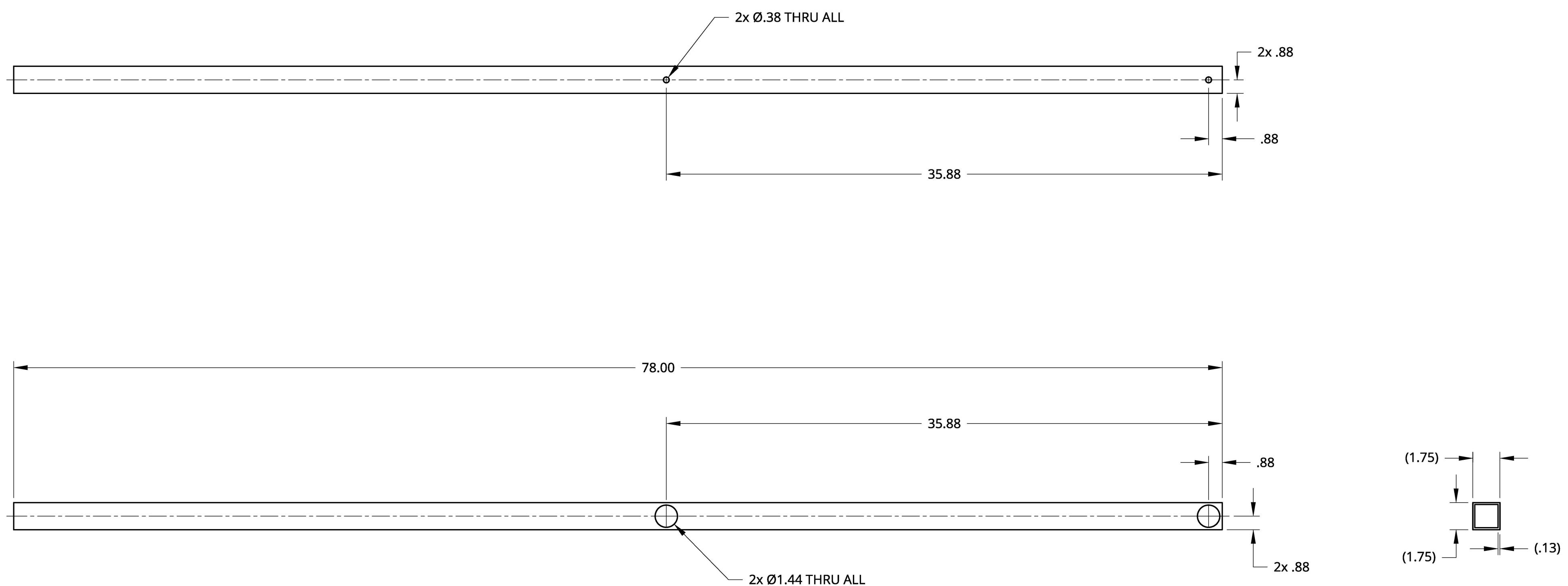
A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND DRAWN	NAME JO	DATE 12/24/2025	FIRST ROBOTICS COMPETITION			
DO NOT SCALE DRAWING	MATERIAL 1 7/16" DIA. 6061 ALUMINUM SOLID ROD		TITLE 1 7/16" DIA. 6061 ALUMINUM SOLID ROD				
BREAK ALL SHARP EDGES AND REMOVE BURRS			SIZE C DWG NO. FE-00062-02				
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.	SCALE 2:1		REV. SHEET 4 of 8				

D

D



C

C

B

B

A

A

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND DRAWN	NAME JO	DATE 12/24/2025	FIRST ROBOTICS COMPETITION	
DO NOT SCALE DRAWING			MATERIAL	TITLE	
BREAK ALL SHARP EDGES AND REMOVE BURRS			1 3/4" X 1 3/4" X 1/8" 6061 ALUMINUM TUBING	1 3/4" X 1 3/4" X 1/8" 6061 ALUMINUM TUBING	
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.			SIZE C	DWG NO. FE-00062-03	REV.
			SCALE 1:5	SHEET 5 of 8	

D

D

C

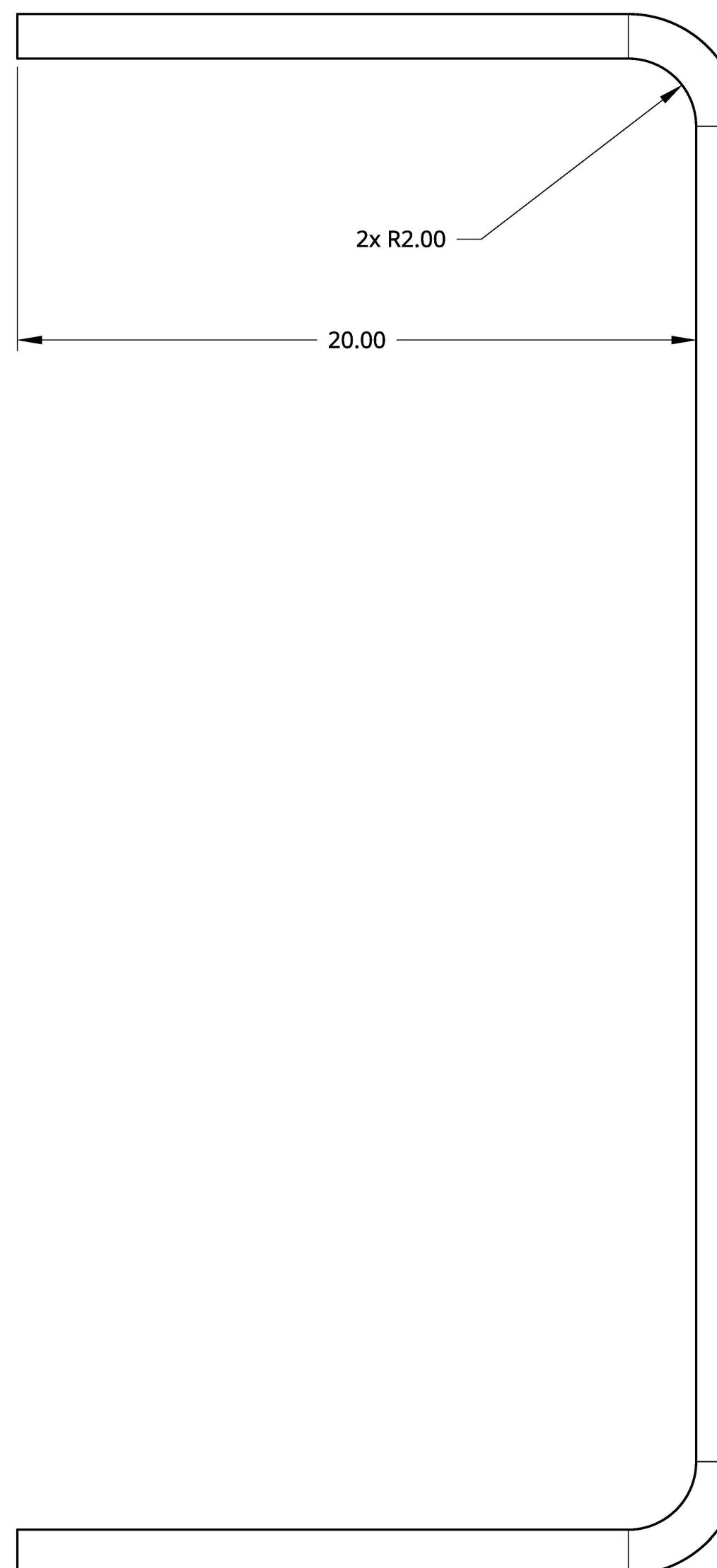
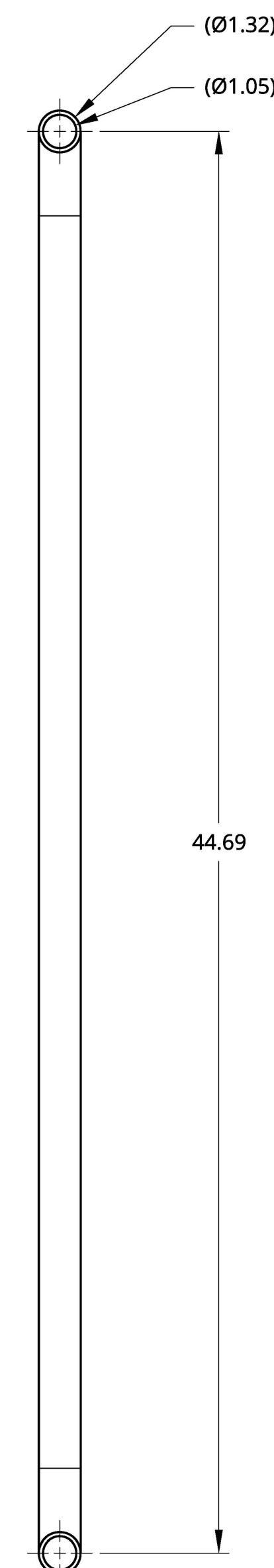
C

B

B

A

A



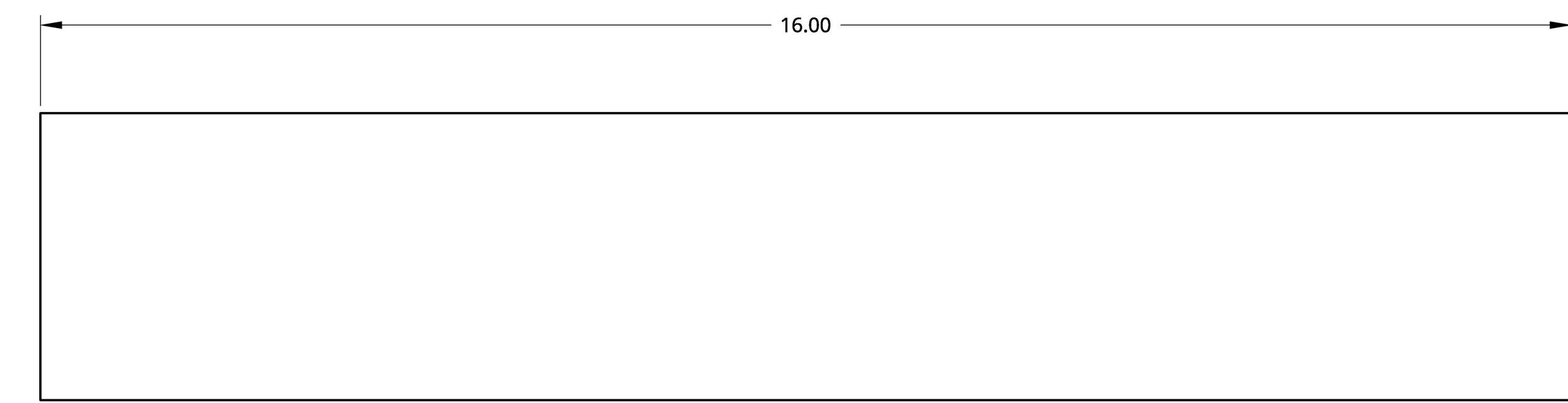
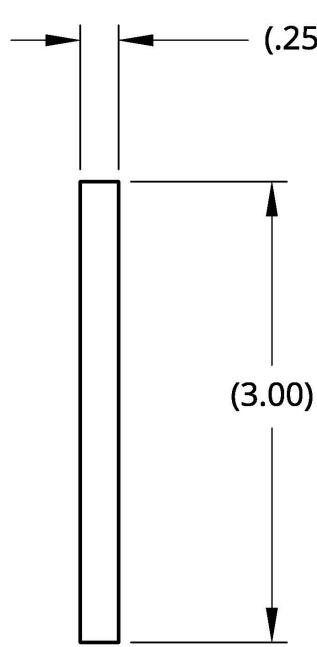
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005		VEND	NAME	DATE	 FIRST ROBOTICS COMPETITION			
DRAWN	JO	12/24/2025						
DO NOT SCALE DRAWING		MATERIAL 1" SCHEDULE 40 ALUMINUM TUBE						
BREAK ALL SHARP EDGES AND REMOVE BURRS								
PROPRIETARY AND CONFIDENTIAL 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.		SIZE	DWG NO.	REV.	TITLE 1" SCHEDULE 40 ALUMINUM TUBE			
SCALE	1:4	SHEET	6 of 8					

D

D

C

C



B

B

A

A

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = $\pm .01$ ANGULAR = $\pm 1^\circ$.XXX = $\pm .005$	VEND DRAWN	NAME JO	DATE 12/24/2025	 FIRST ROBOTICS COMPETITION	
DO NOT SCALE DRAWING	MATERIAL 3" X 1/4" 6061 ALUMINUM BAR		TITLE 3" X 1/4" 6061 ALUMINUM BAR		
BREAK ALL SHARP EDGES AND REMOVE BURRS			SIZE C	DWG NO. FE-00062-05	REV.
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.	SCALE 1:1.25		SHEET 7 of 8		

D

D

C

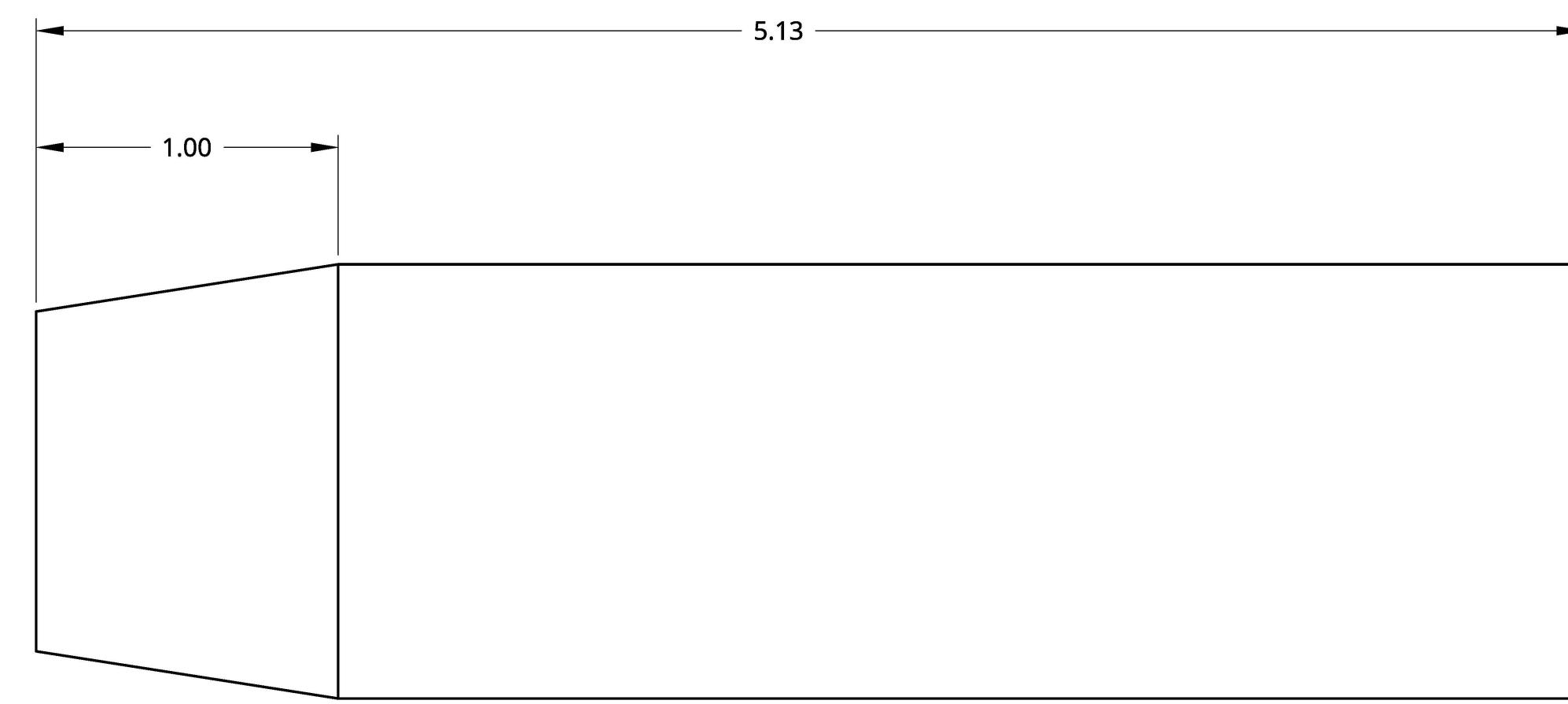
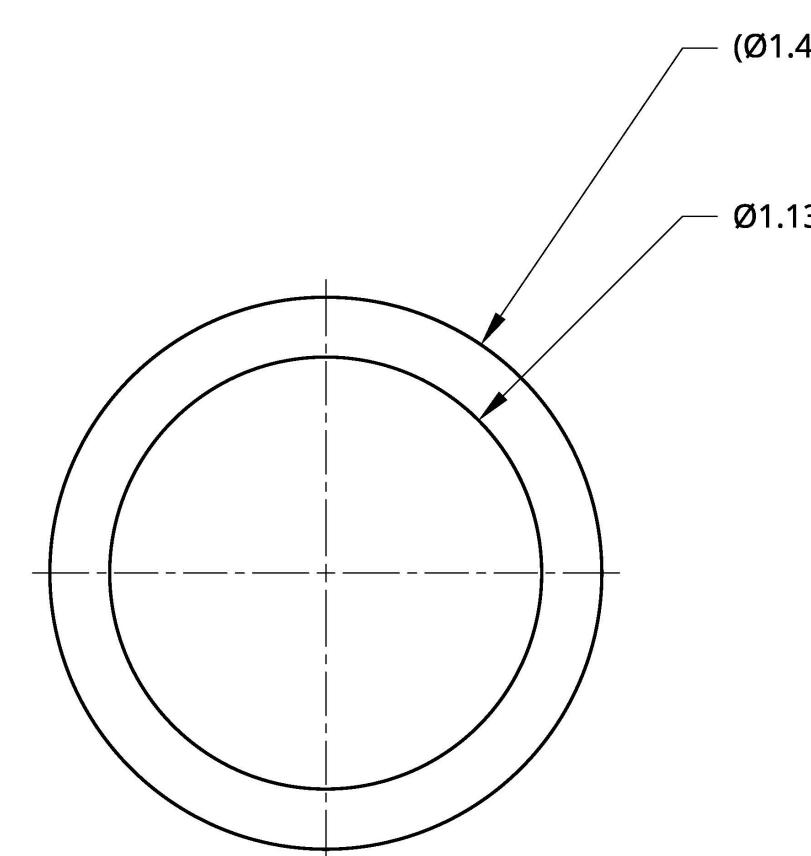
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND DRAWN	NAME JO	DATE 12/24/2025	 1 7/16" DIA. 6061 ALUMINUM SOLID ROD	
DO NOT SCALE DRAWING BREAK ALL SHARP EDGES AND REMOVE BURRS	MATERIAL 1 7/16" DIA. 6061 ALUMINUM SOLID ROD				
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.	SIZE C	DWG NO. FE-00062-06	REV.		
SCALE 2:1	SHEET 8 of 8				

D

D

C

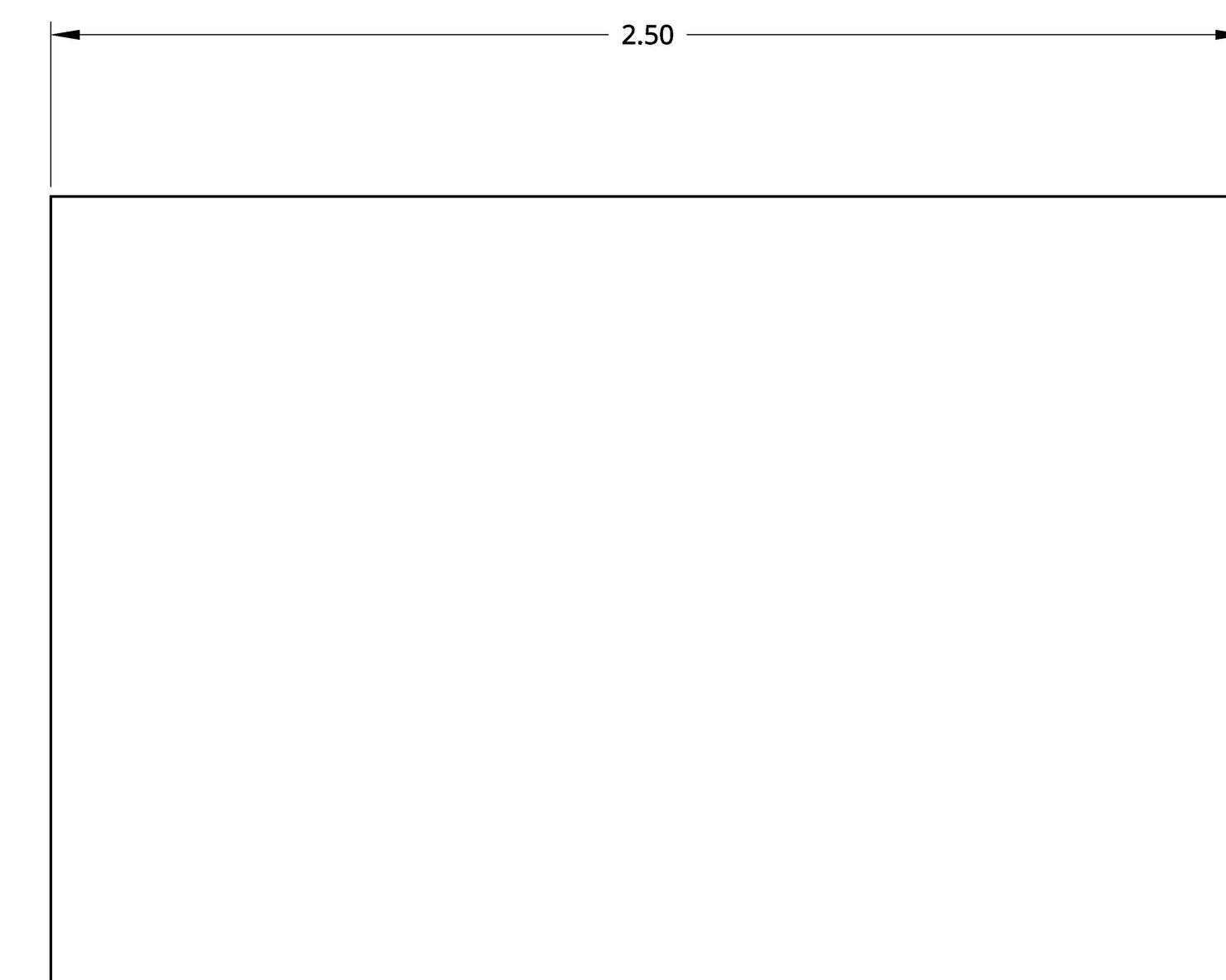
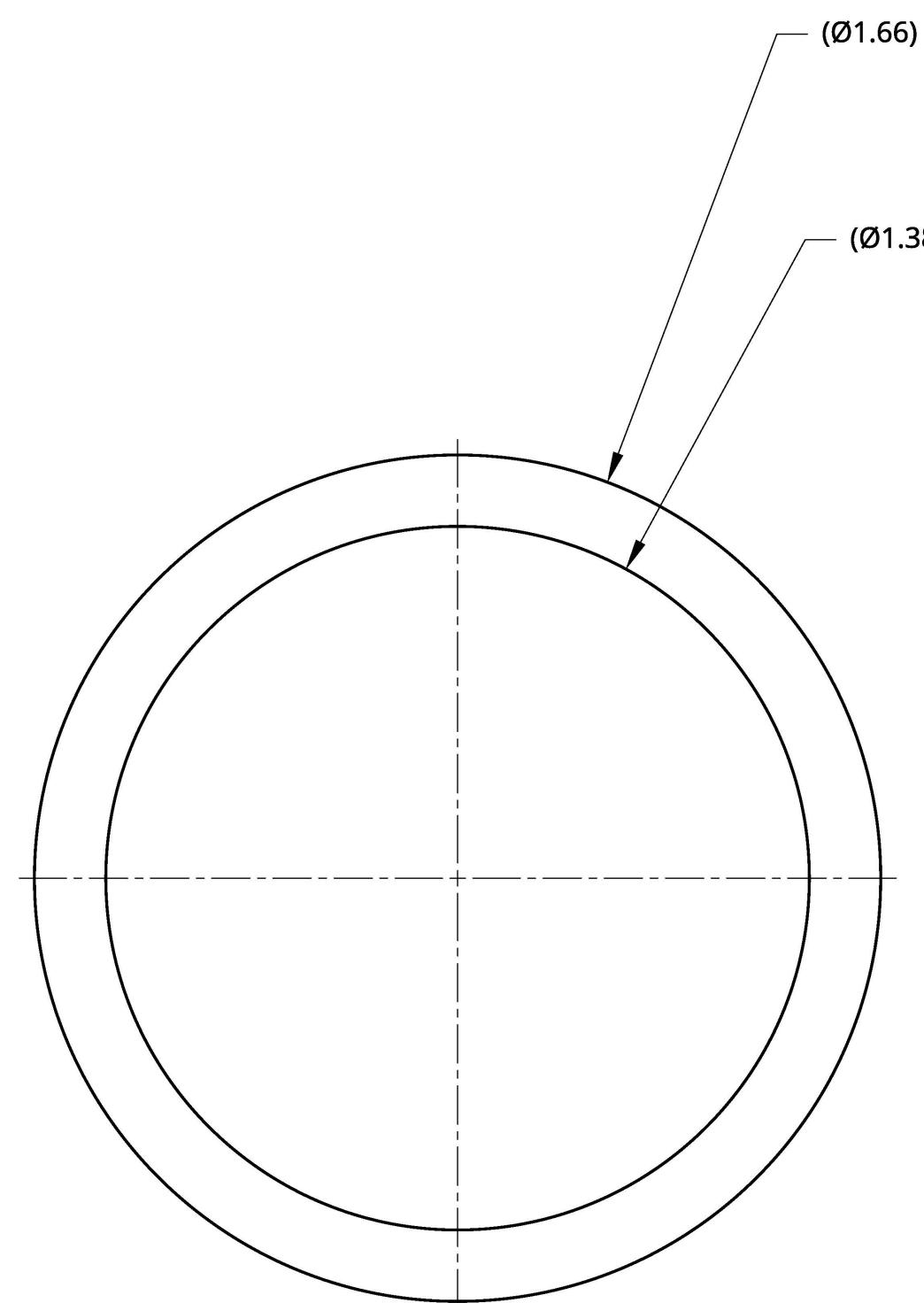
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES
._{XX} = $\pm .01$ ANGULAR = $\pm 1^\circ$
.XXX = $\pm .005$

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

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.

VEND

DRAWN

NAME

JO

DATE

12/24/2025

MATERIAL

TITLE

1 1/4 SCHEDULE 40
ALUMINUM TUBE

SIZE

DWG NO.

REV.

C

FE-00062-07

SCALE

3:1

SHEET

9 of 8



1 1/4 SCHEDULE 40 ALUMINUM
TUBE

D

D

C

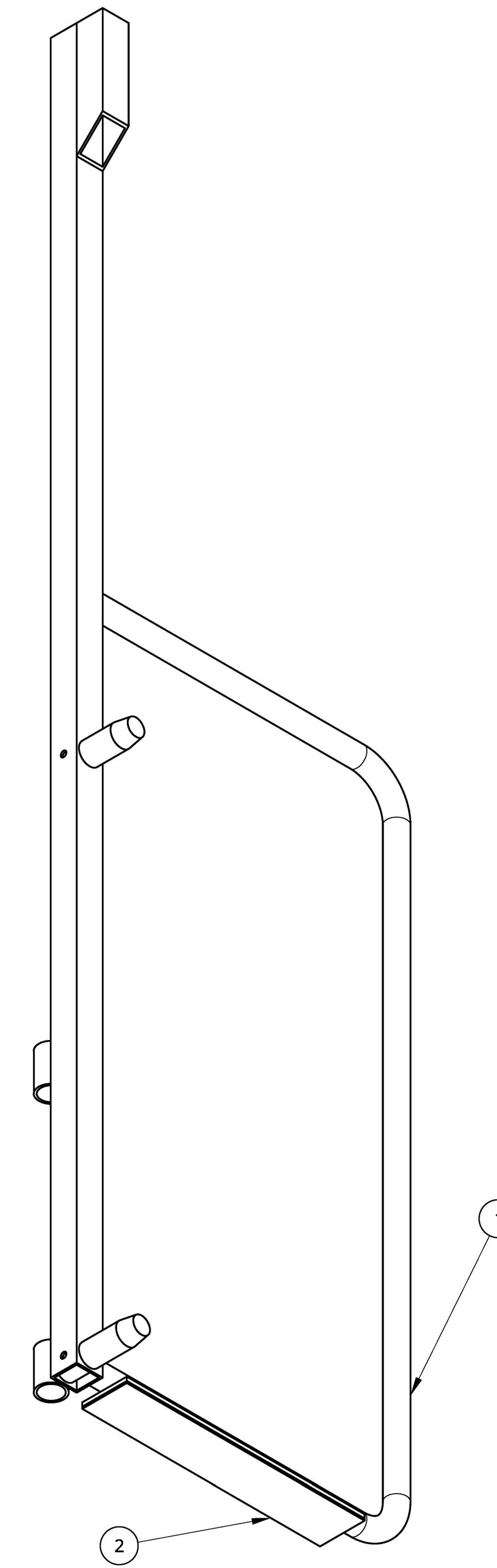
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES
.00 = ±.01 ANGULAR = ± 1°
.000 = ±.005

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

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.

Item	Quantity	Part number	Description
1	1	FE-00064	Corner Support, Right Weldment
2	1		Hook Tape, 3in Wide, 16in Long

VEND	NAME	DATE	FIRST ROBOTICS COMPETITION
DRAWN	JO	12/24/2025	
MATERIAL			TITLE
			CORNER SUPPORT, RIGHT ASSEMBLY
SIZE	DWG NO.	REV.	
C	FE-00063		
SCALE	1:5	SHEET	1 of 1

D

D

C

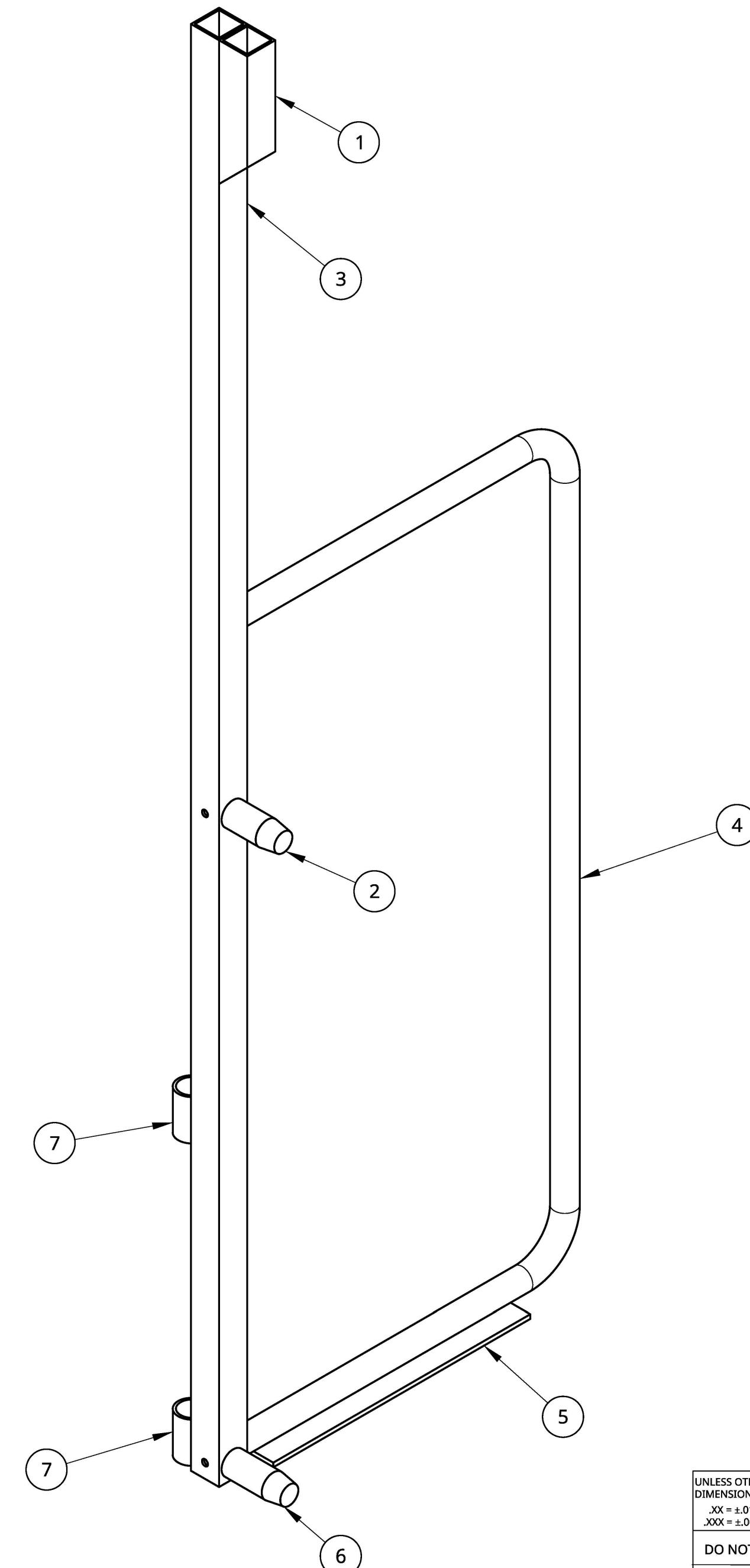
C

B

B

A

A



Item	Quantity	Part number	Description
1	1	FE-00064-01	1 3/4" x 1 3/4" x 1/8" 6061 Aluminum Tubing
2	1	FE-00064-02	1 7/16" Dia. 6061 Aluminum Solid Rod
3	1	FE-00064-03	1 3/4" x 1 3/4" x 1/8" 6061 Aluminum Tubing
4	1	FE-00064-04	1" Schedule 40 Aluminum Tube
5	1	FE-00064-05	3" x 1/4" 6061 Aluminum Bar
6	1	FE-00064-06	1 7/16" Dia. 6061 Aluminum Solid Rod
7	2	FE-00064-07	1 1/4" Schedule 40 Aluminum Tube

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES
.0X = ±.01 ANGULAR = ± 1°
.00X = ±.005

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

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.

VEND
DRAWN
MATERIAL

NAME
JODATE
12/24/2025

TITLE



CORNER SUPPORT, RIGHT
WELDMENT

SIZE C DWG NO.
FE-00064

REV.
SCALE 1:5 SHEET 1 of 8

D

D

C

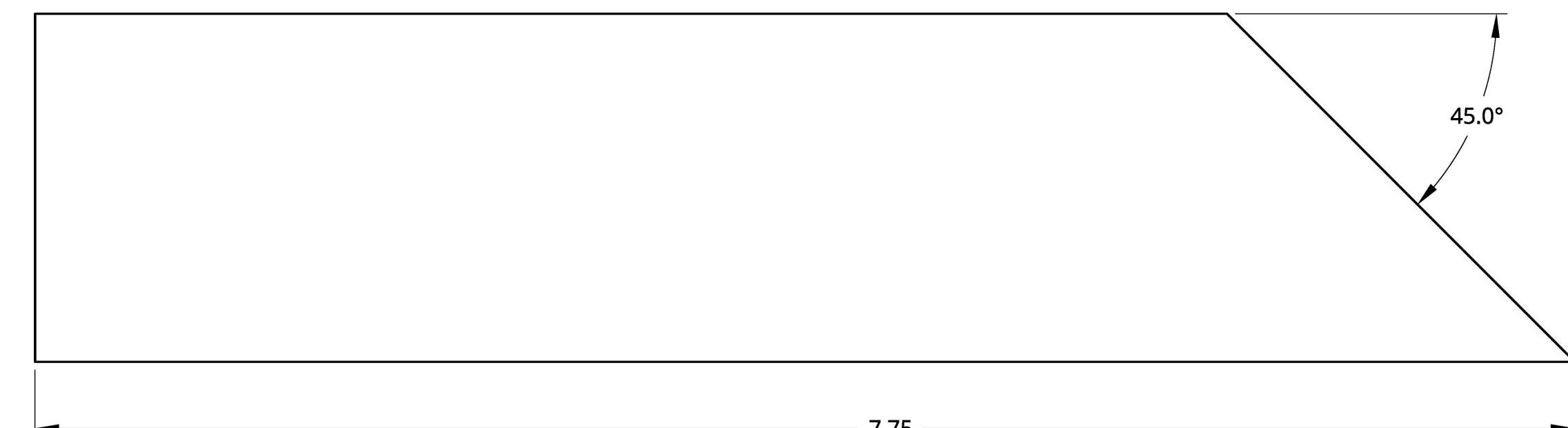
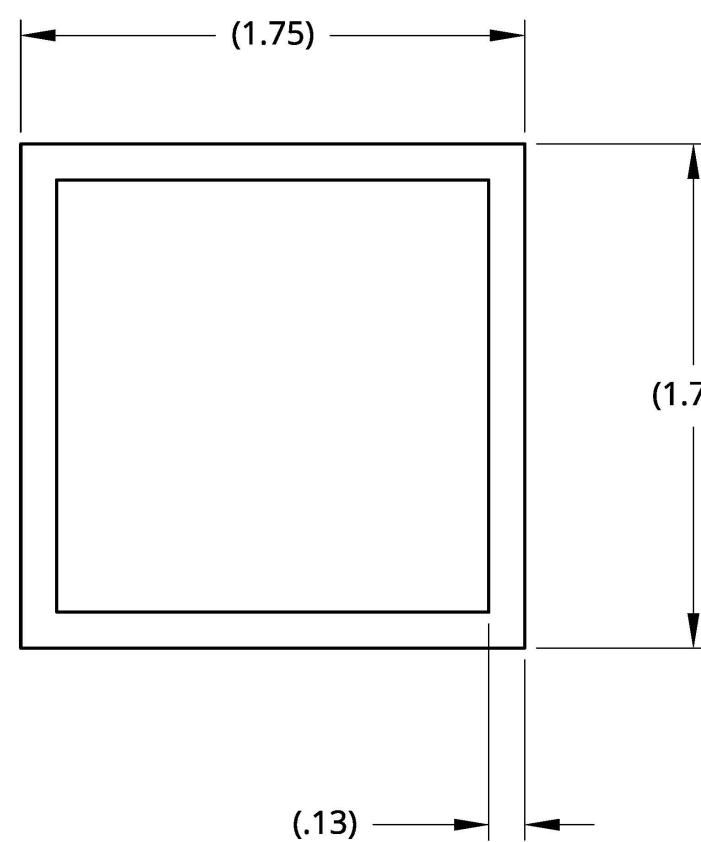
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND DRAWN	NAME JO	DATE 12/24/2025	FIRST ROBOTICS COMPETITION	
DO NOT SCALE DRAWING	MATERIAL 1 3/4" X 1 3/4" X 1/8" 6061 ALUMINUM TUBING		TITLE 1 3/4" X 1 3/4" X 1/8" 6061 ALUMINUM TUBING		
BREAK ALL SHARP EDGES AND REMOVE BURRS			SIZE C		DWG NO. FE-00064-01
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.			REV.		
	SCALE 1.5:1		SHEET 2 of 8		

D

D

C

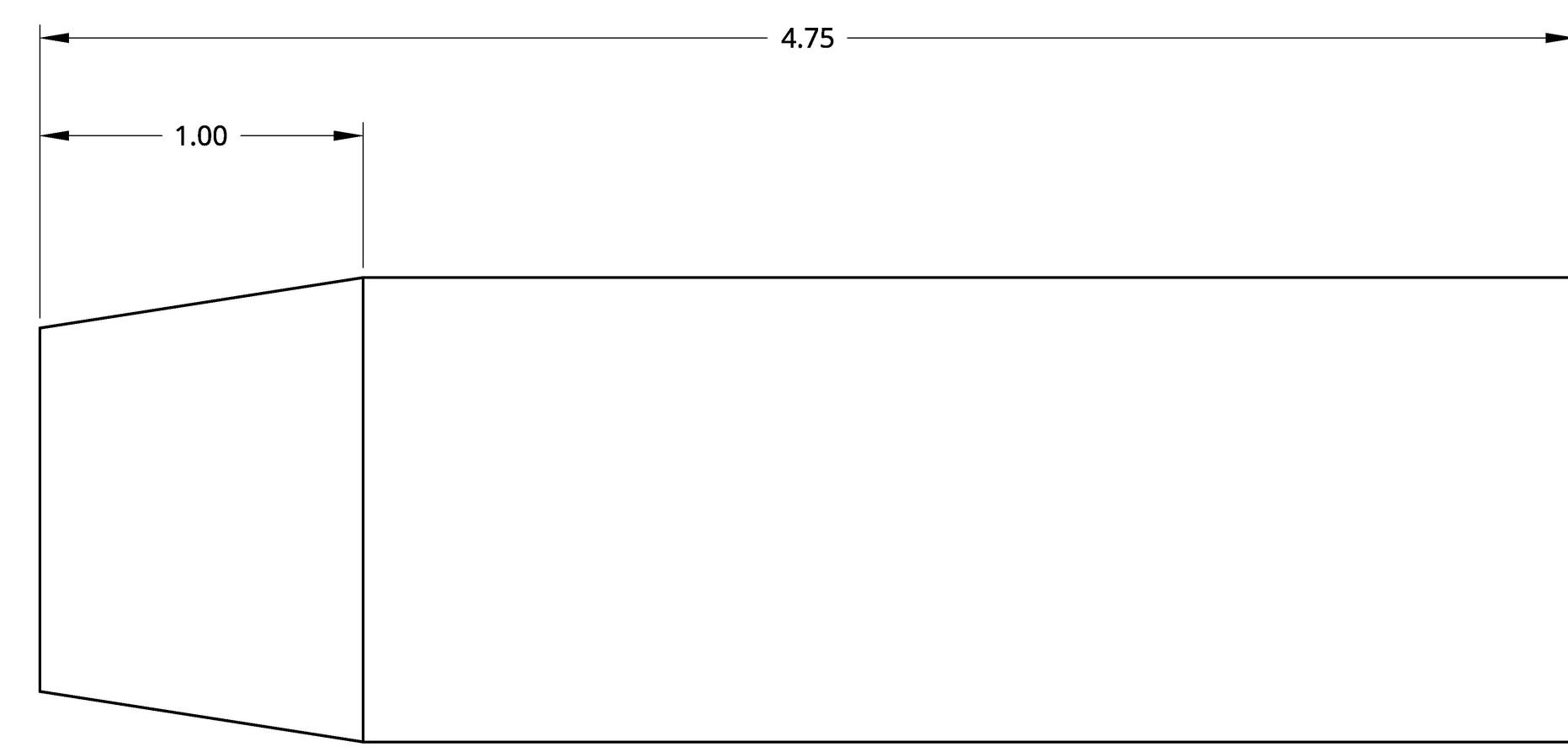
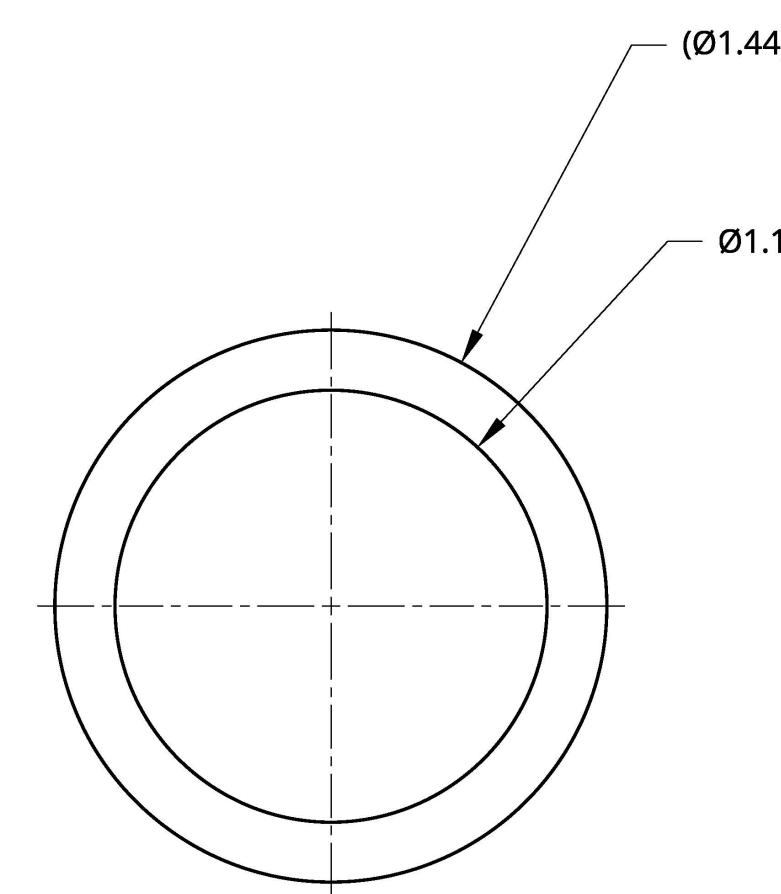
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES XX = ±.01 ANGULAR = ± 1° XXX = ±.005	VEND	NAME	DATE	 FIRST ROBOTICS COMPETITION
	DRAWN	JO	12/24/2025	
DO NOT SCALE DRAWING	MATERIAL 1 7/16" DIA. 6061 ALUMINUM SOLID ROD	TITLE 1 7/16" DIA. 6061 ALUMINUM SOLID ROD	SIZE C DWG NO. FE-00064-02	REV. 2:1 SHEET 4 of 8
BREAK ALL SHARP EDGES AND REMOVE BURRS				
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.				

D

D

C

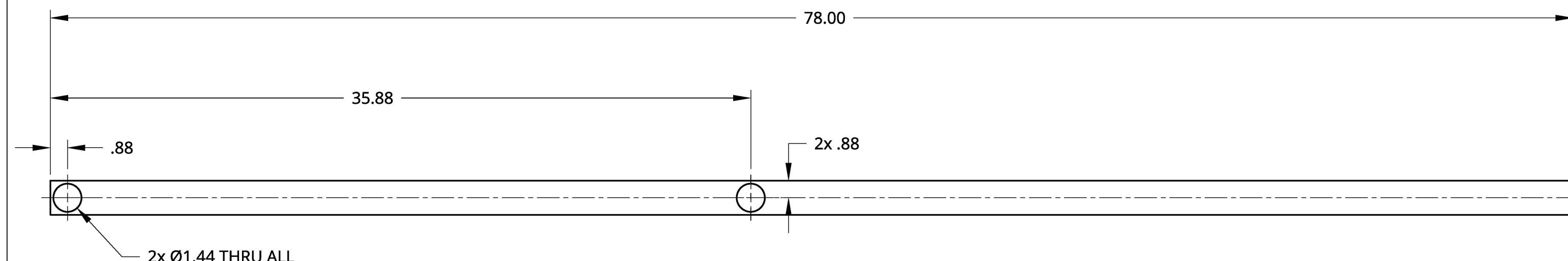
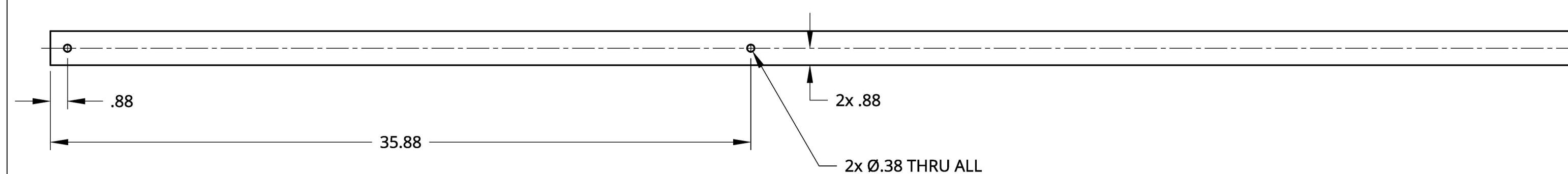
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND DRAWN	NAME JO	DATE 12/24/2025	FIRST ROBOTICS COMPETITION	
DO NOT SCALE DRAWING			MATERIAL	TITLE	
BREAK ALL SHARP EDGES AND REMOVE BURRS			1 3/4" X 1 3/4" X 1/8" 6061 ALUMINUM TUBING	1 3/4" X 1 3/4" X 1/8" 6061 ALUMINUM TUBING	
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.			SIZE C	DWG NO. FE-00064-03	REV.
			SCALE 1:5	SHEET 5 of 8	

4

3

2

1

D

D

C

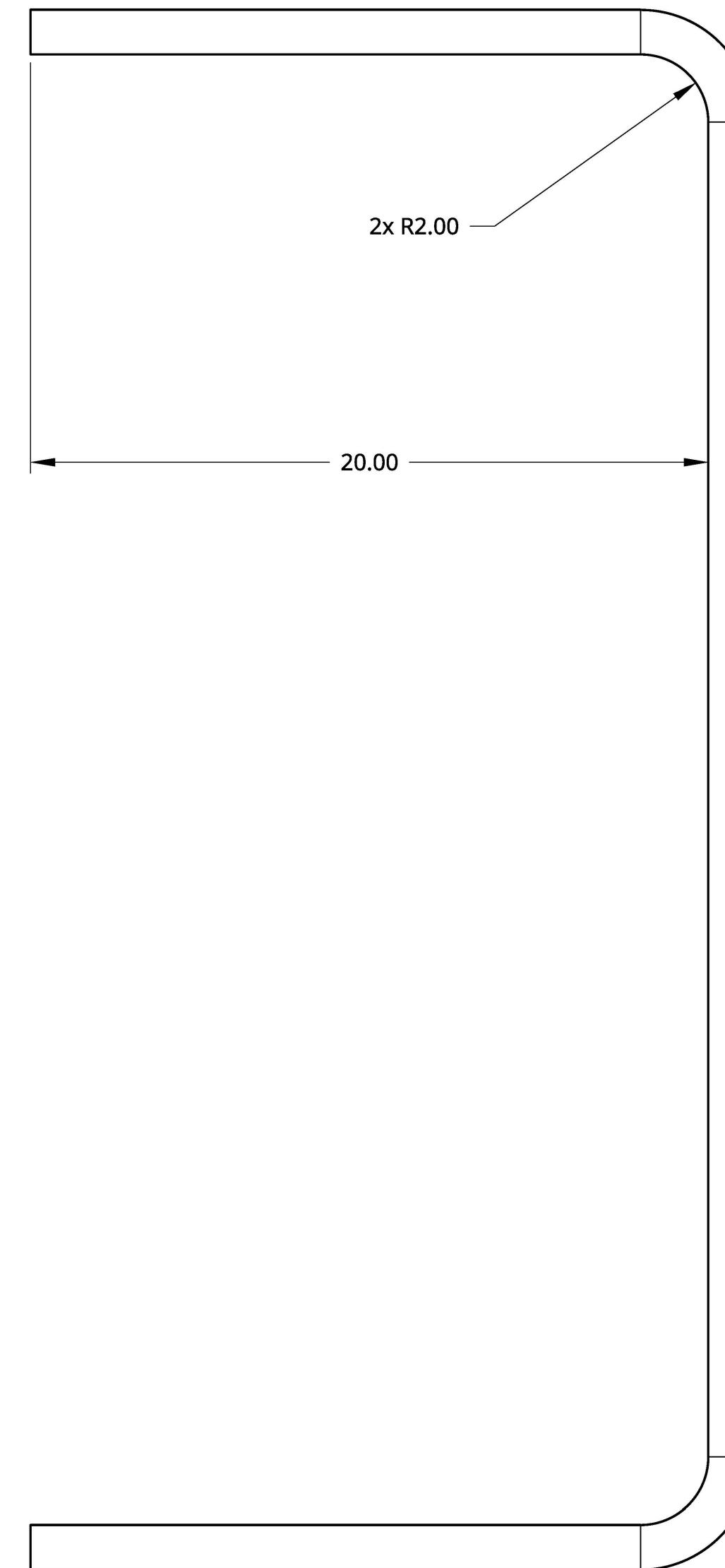
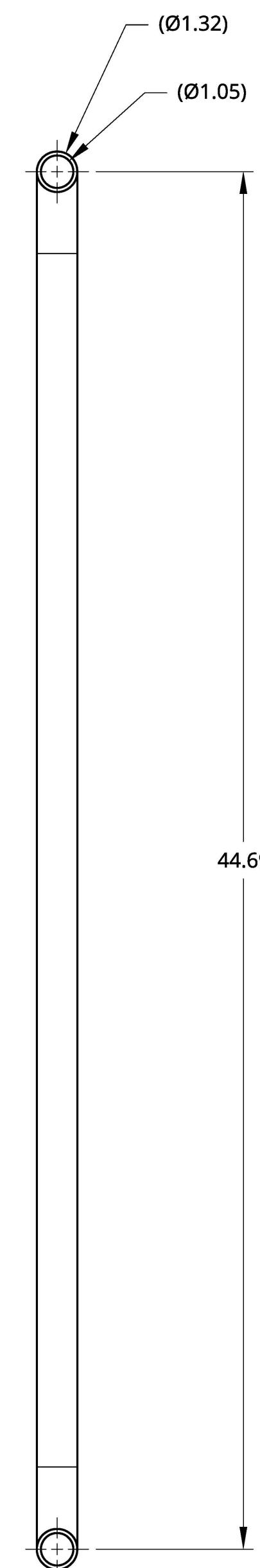
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND DRAWN	NAME JO	DATE 12/24/2025	FIRST ROBOTICS COMPETITION	
DO NOT SCALE DRAWING	MATERIAL 1" SCHEDULE 40 ALUMINUM TUBE		TITLE 1" SCHEDULE 40 ALUMINUM TUBE		
BREAK ALL SHARP EDGES AND REMOVE BURRS			SIZE C	DWG NO. FE-00064-04	REV.
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.	SCALE 1:4		SHEET 6 of 8		

D

D

(.25)

(3.00)

16.00

C

C

B

B

A

A

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = $\pm .01$ ANGULAR = $\pm 1^\circ$.XXX = $\pm .005$	VEND DRAWN	NAME JO	DATE 12/24/2025	 FIRST ROBOTICS COMPETITION
DO NOT SCALE DRAWING BREAK ALL SHARP EDGES AND REMOVE BURRS	MATERIAL			
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.	3" X 1/4" 6061 ALUMINUM BAR	TITLE 3" X 1/4" 6061 ALUMINUM BAR	SIZE C	DWG NO. FE-00064-05
	SCALE 1:1	REV.	7 of 8	

D

D

C

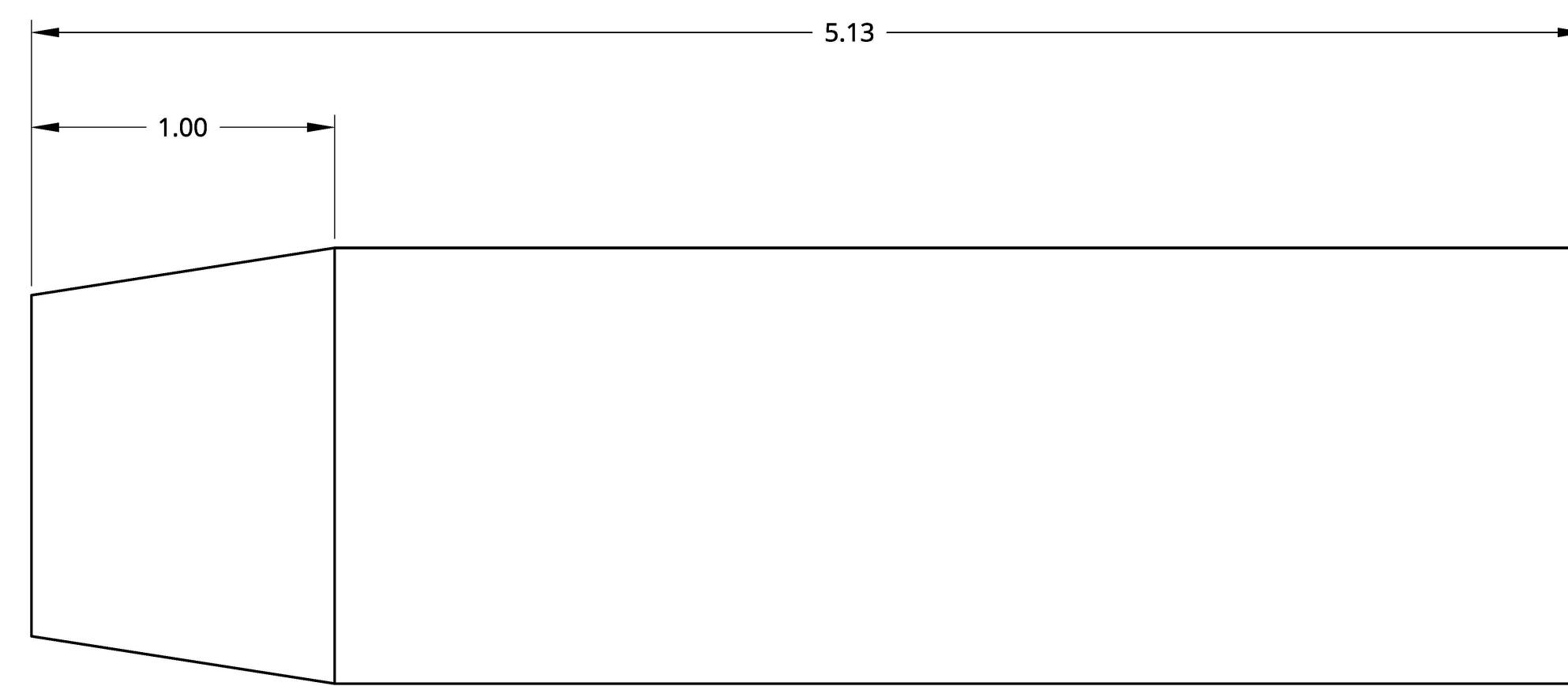
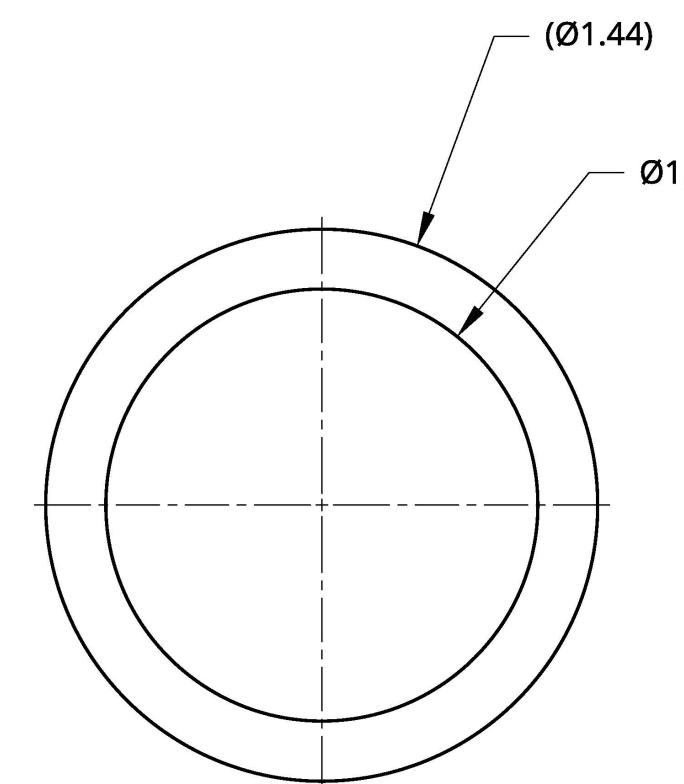
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND	NAME	DATE	 FIRST ROBOTICS COMPETITION
	DRAWN	JO	12/24/2025	
DO NOT SCALE DRAWING	MATERIAL 1 7/16" DIA. 6061 ALUMINUM SOLID ROD	TITLE 1 7/16" DIA. 6061 ALUMINUM SOLID ROD	SIZE C DWG NO. FE-00064-06 REV.	
BREAK ALL SHARP EDGES AND REMOVE BURRS				
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.				
SCALE 2:1				SHEET 8 of 8

D

D

C

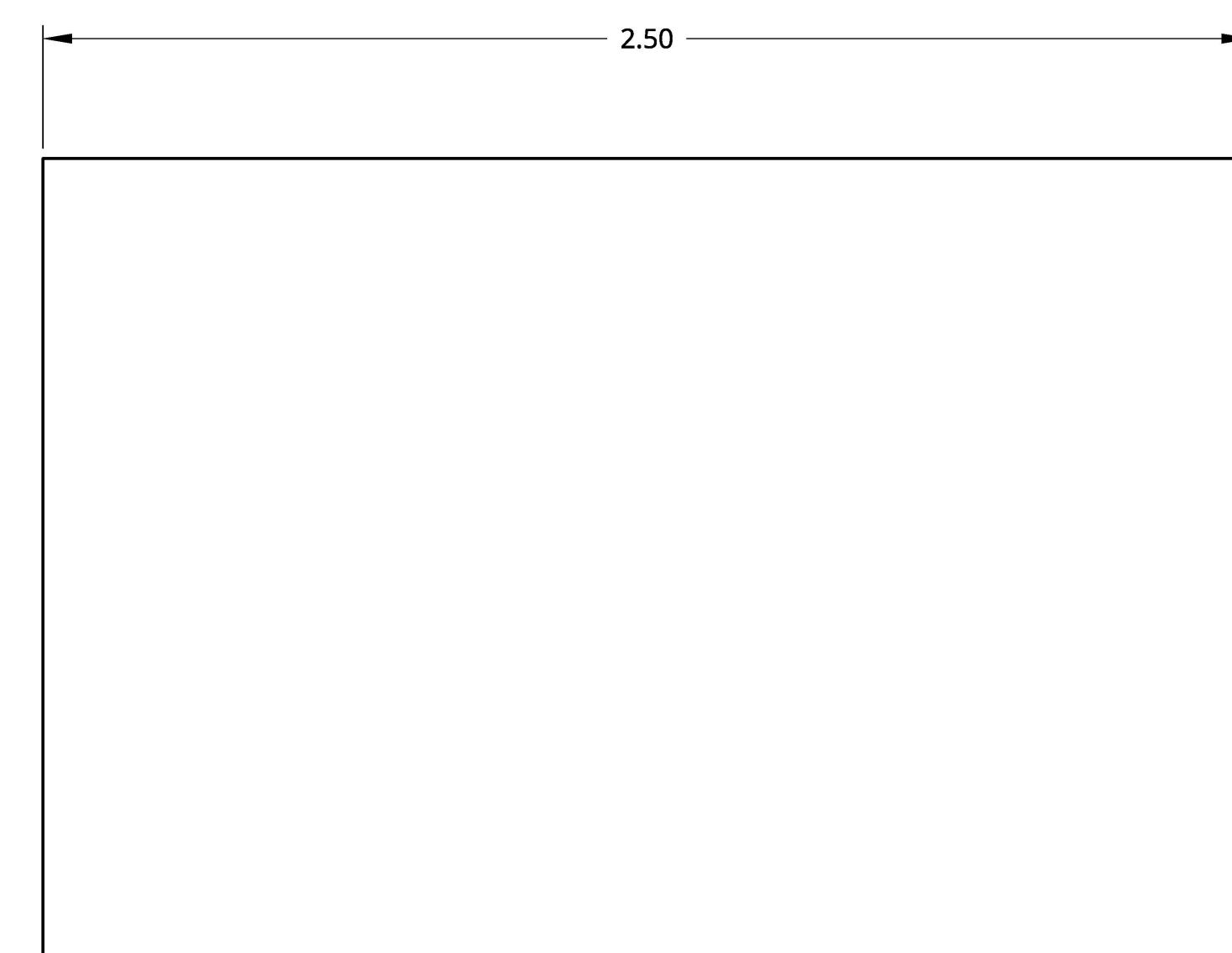
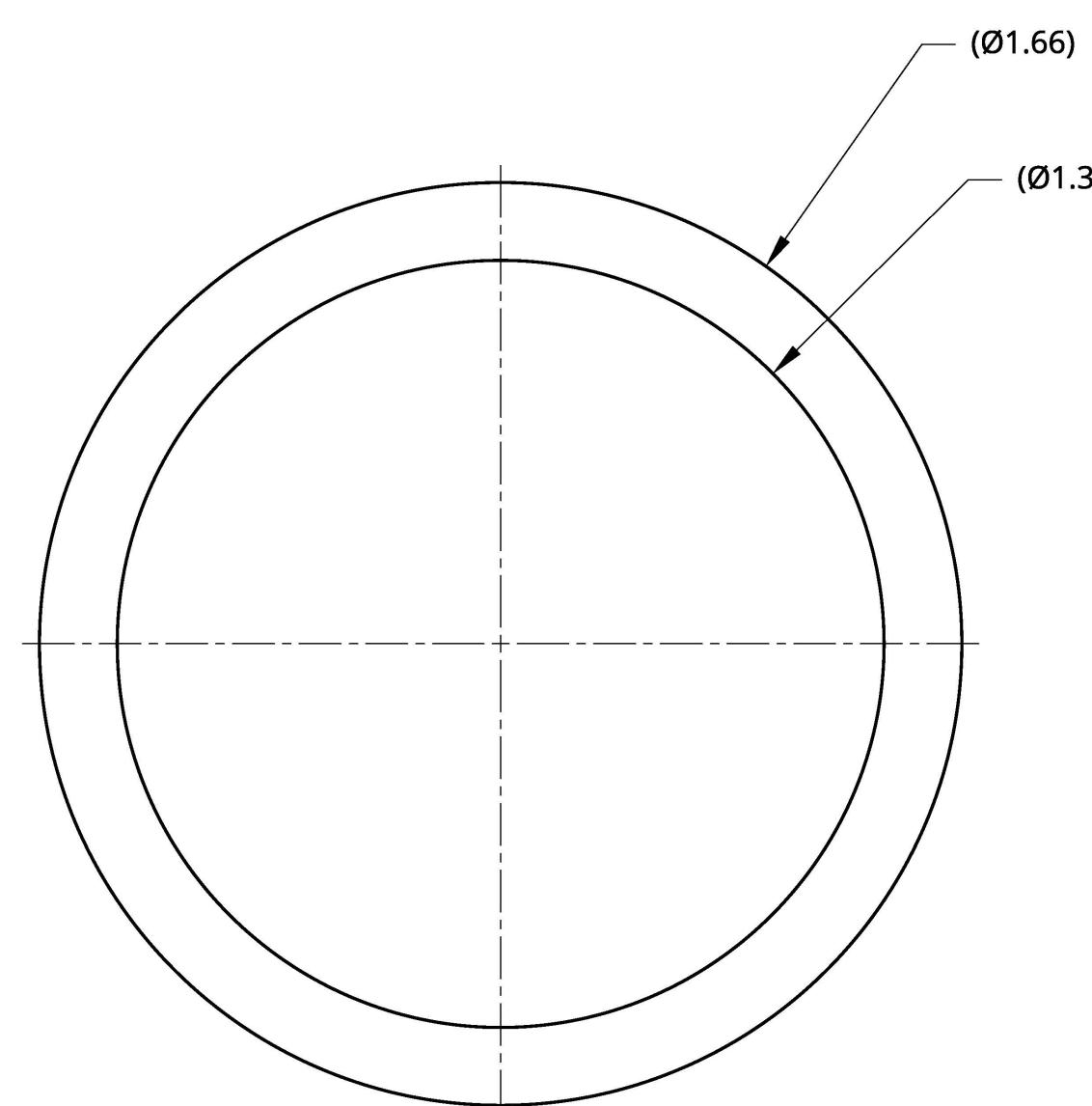
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES
.00 = ±.01 ANGULAR = ± 1°
.005 = ±.005

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

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.

VEND

DRAWN

MATERIAL

SIZE

SCALE

NAME

JO

TITLE

DWG NO.

REV.

3:1

9 of 8

1 1/4 SCHEDULE 40 ALUMINUM
TUBE
FE-00064-07

D

D

C

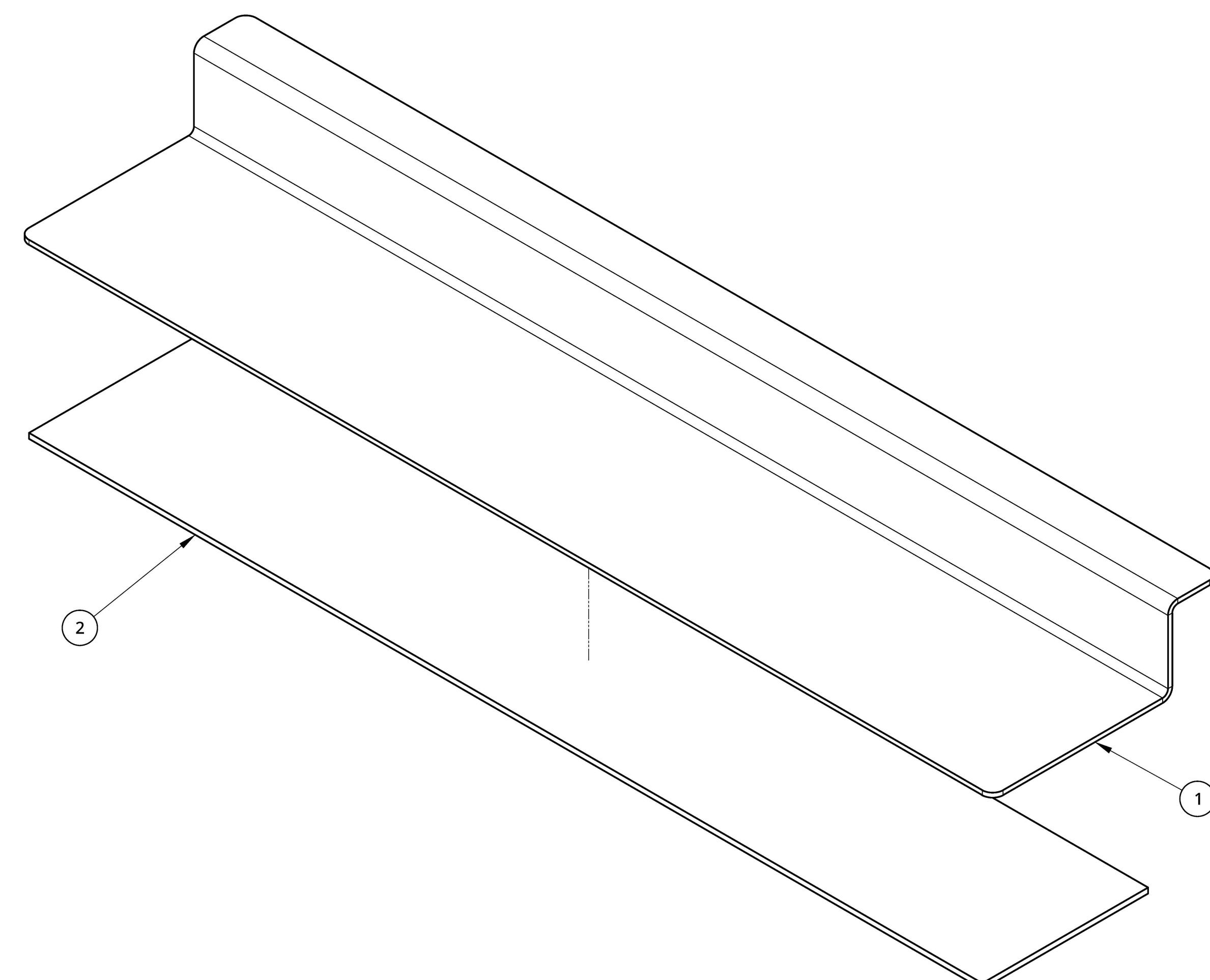
C

B

B

A

A



Item	Quantity	Part number	Description
1	1	FE-00070	Field Border Anchor Base
2	1		Hook Tape, 4in Wide, 23in Long

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES
.XX = ±.01 ANGULAR = ± 1°
.XXX = ±.005

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

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.

VEND
DRAWN

NAME
JODATE
10/08/2025

FIELD BORDER ANCHOR

SIZE C DWG NO. FE-00071 REV.

SCALE 3:5 SHEET 1 of 2

D

D

C

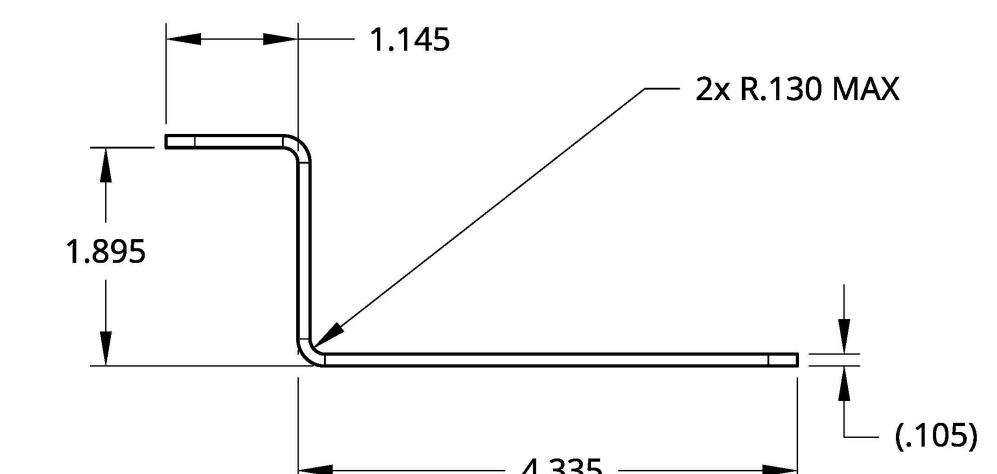
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	BEND	NAME	DATE	FIRST ROBOTICS COMPETITION
	DRAWN	JO	10/08/2025	
DO NOT SCALE DRAWING	MATERIAL 12 GA ZINC PLATED STEEL		TITLE	FIELD BORDER ANCHOR BASE
BREAK ALL SHARP EDGES AND REMOVE BURRS			SIZE	DWG NO.
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.			FE-00070	REV.
	SCALE	3:5	SHEET	2 of 2

4

3

2

1

D

D

C

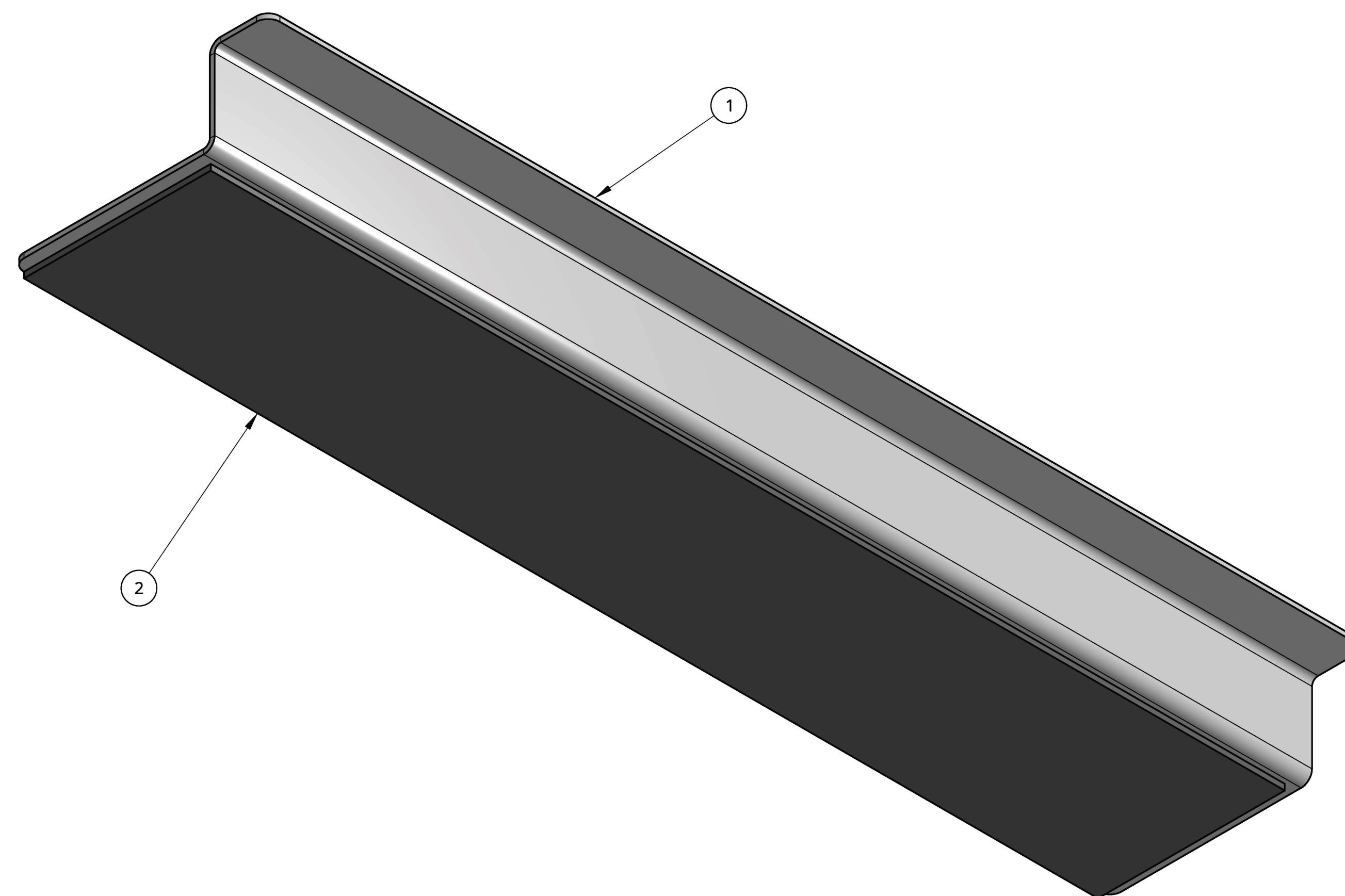
C

B

B

A

A



Item	Quantity	Part number	Description
1	1	FE-00070	Field Border Anchor Base
2	1		Hook Tape, 4in Wide, 23in Long

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND	NAME	DATE	FIRST ROBOTICS COMPETITION
DO NOT SCALE DRAWING	DRAWN	JO	12/23/2025	
BREAK ALL SHARP EDGES AND REMOVE BURRS				MATERIAL
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.				TITLE FIELD BORDER ANCHOR
SIZE	DWG NO.	FE-00071	REV.	
SCALE	1:1.5		SHEET	1 of 1

4

3

2

1

D

D

C

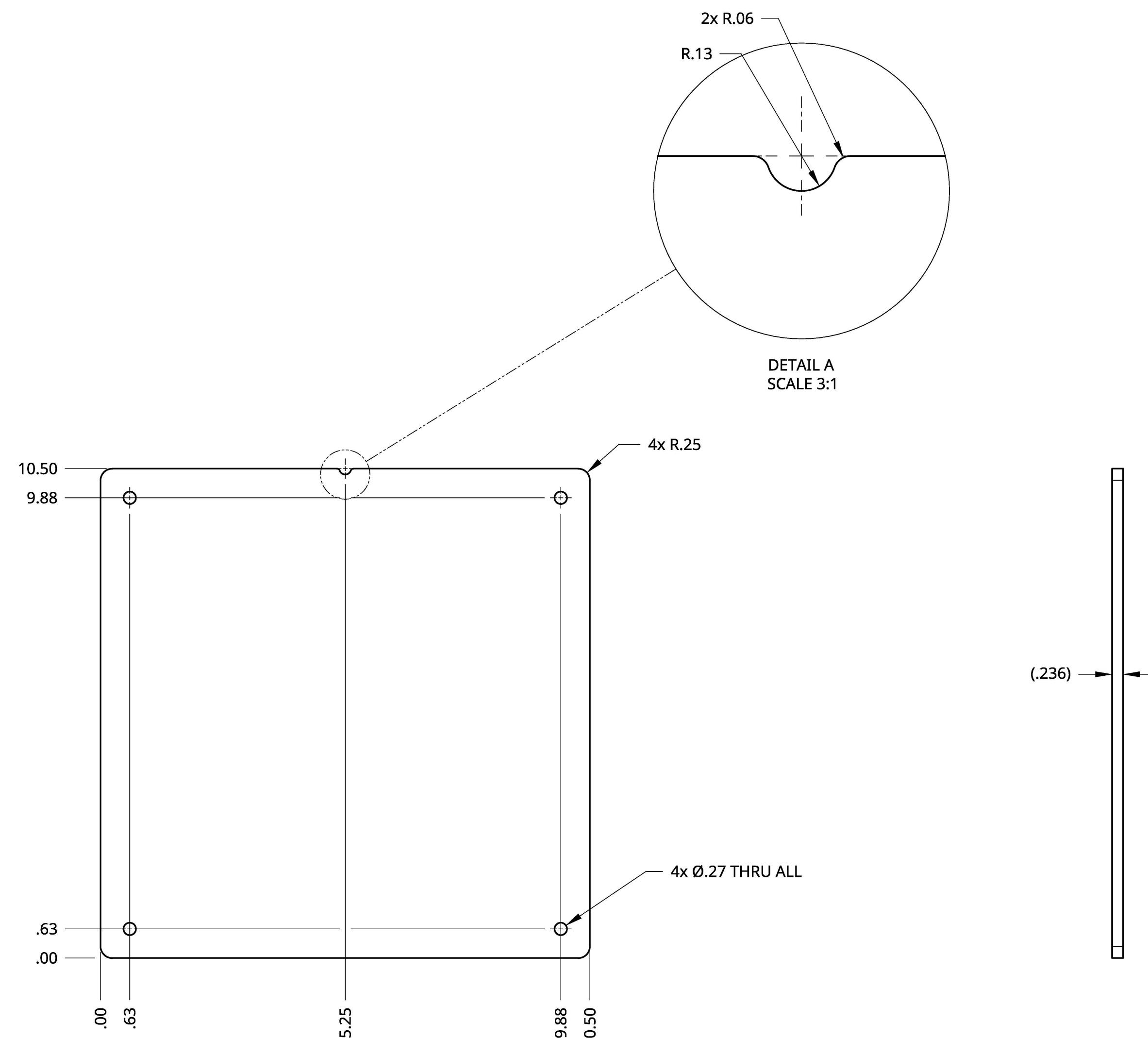
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND	NAME	DATE	FIRST ROBOTICS COMPETITION
DRAWN	OCD	09/02/2025		
DO NOT SCALE DRAWING	MATERIAL 1/4IN POLYCARBONATE, CLEAR		TITLE	APRILTAG BASE POLY
BREAK ALL SHARP EDGES AND REMOVE BURRS			SIZE	
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.			DWG NO.	
SCALE	1:2	REV.	1 of 1	

REVISIONS

Revision	Revision description	Date drawn	Drawn by
B	Added IDs 23-32	2025-09-04	OCD
C*		2025-09-04	OCD

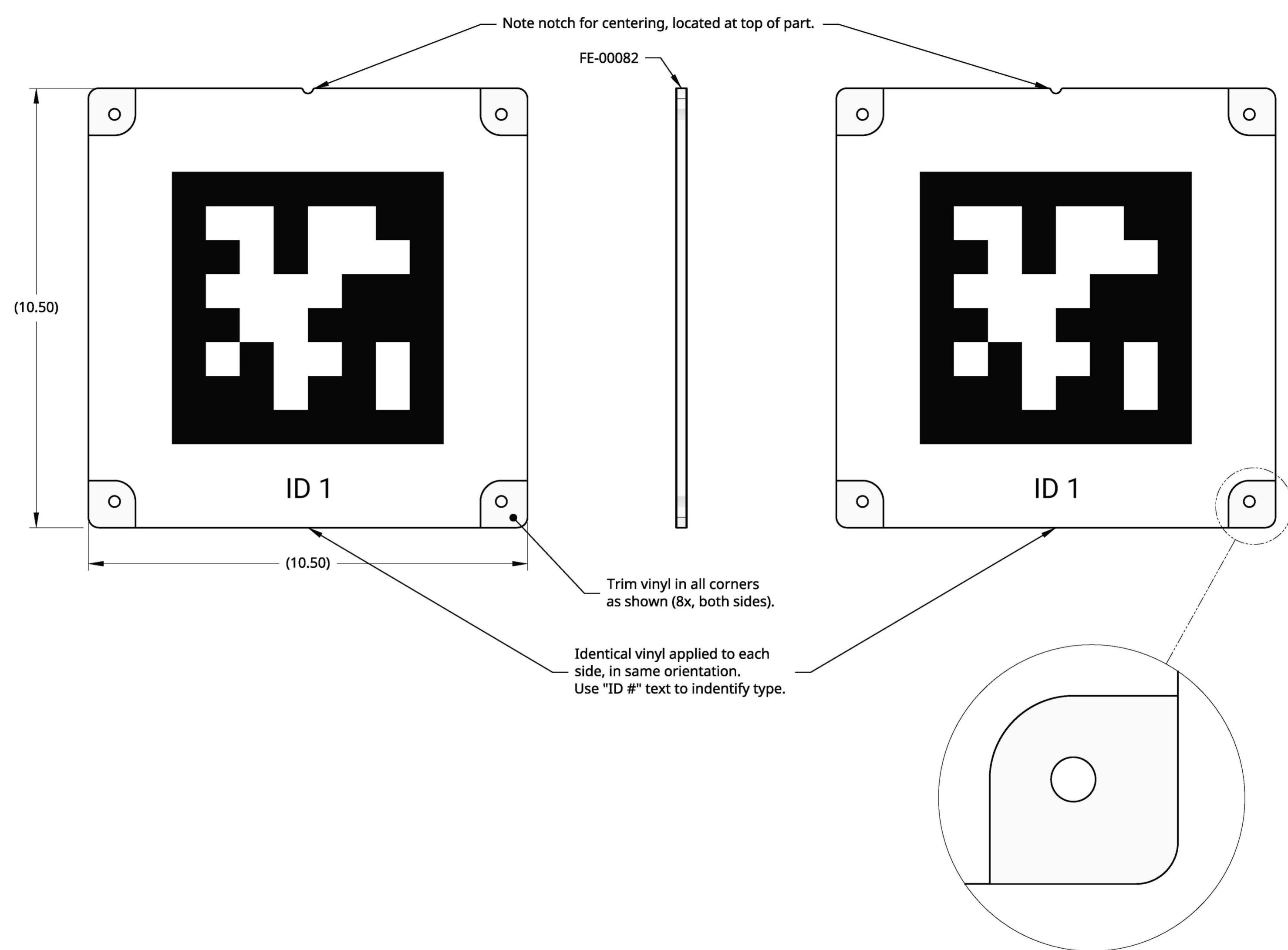
D

D

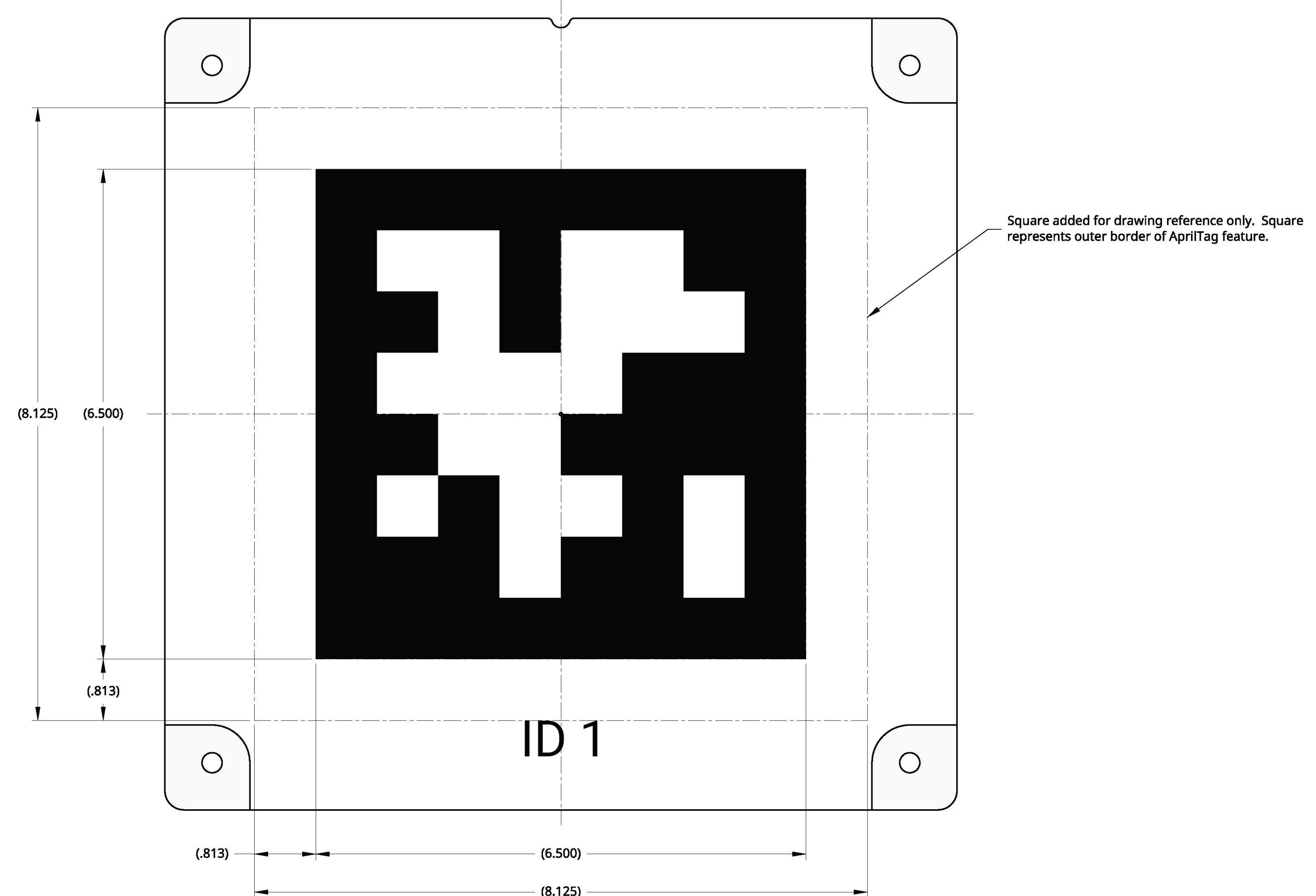
NOTES:
1. Matte vinyl

Tag Variations

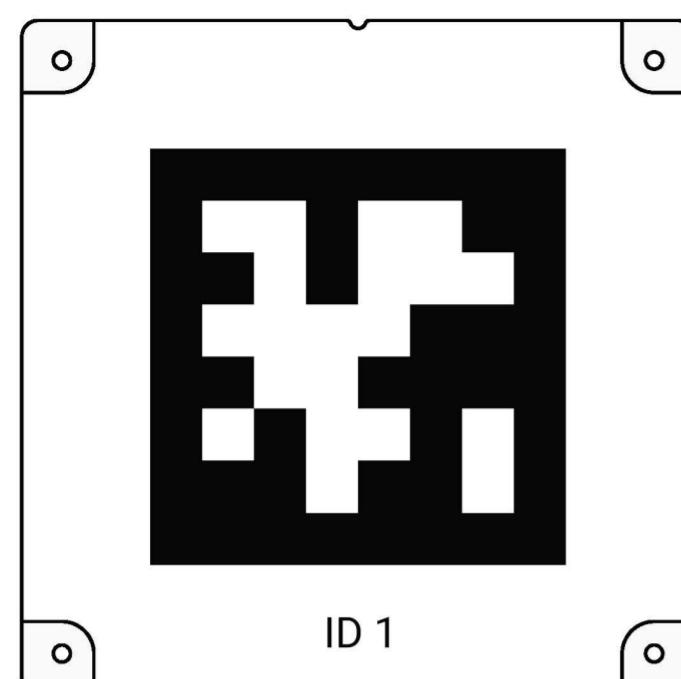
Part Number	Vinyl Image
FE-00083-ID1	tag36_11_00001
FE-00083-ID2	tag36_11_00002
FE-00083-ID3	tag36_11_00003
FE-00083-ID4	tag36_11_00004
FE-00083-ID5	tag36_11_00005
FE-00083-ID6	tag36_11_00006
FE-00083-ID7	tag36_11_00007
FE-00083-ID8	tag36_11_00008
FE-00083-ID9	tag36_11_00009
FE-00083-ID10	tag36_11_00010
FE-00083-ID11	tag36_11_00011
FE-00083-ID12	tag36_11_00012
FE-00083-ID13	tag36_11_00013
FE-00083-ID14	tag36_11_00014
FE-00083-ID15	tag36_11_00015
FE-00083-ID16	tag36_11_00016
FE-00083-ID17	tag36_11_00017
FE-00083-ID18	tag36_11_00018
FE-00083-ID19	tag36_11_00019
FE-00083-ID20	tag36_11_00020
FE-00083-ID21	tag36_11_00021
FE-00083-ID22	tag36_11_00022
FE-00083-ID23	tag36_11_00023
FE-00083-ID24	tag36_11_00024
FE-00083-ID25	tag36_11_00025
FE-00083-ID26	tag36_11_00026
FE-00083-ID27	tag36_11_00027
FE-00083-ID28	tag36_11_00028
FE-00083-ID29	tag36_11_00029
FE-00083-ID30	tag36_11_00030
FE-00083-ID31	tag36_11_00031
FE-00083-ID32	tag36_11_00032



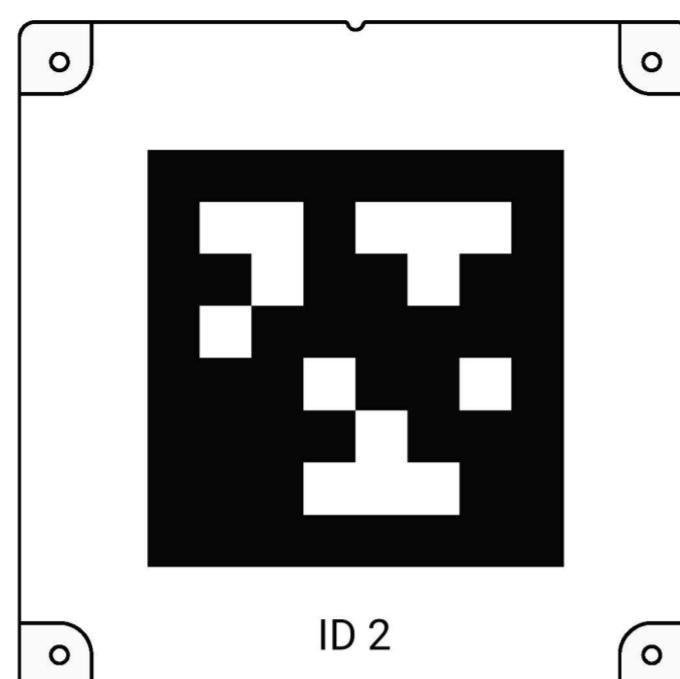
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .00 = ±.01 ANGULAR = ± 1° .000 = ±.005	VEND DRAWN	NAME OCD	DATE 09/04/2025	TITLE APRILTAG
DO NOT SCALE DRAWING BREAK ALL SHARP EDGES AND REMOVE BURRS	MATERIAL	POLYCARBONATE & VINYL	SIZE C	
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST®. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED.	DWG NO.	FE-00083	REV.	
SCALE 1:2	SHEET	1 of 5		



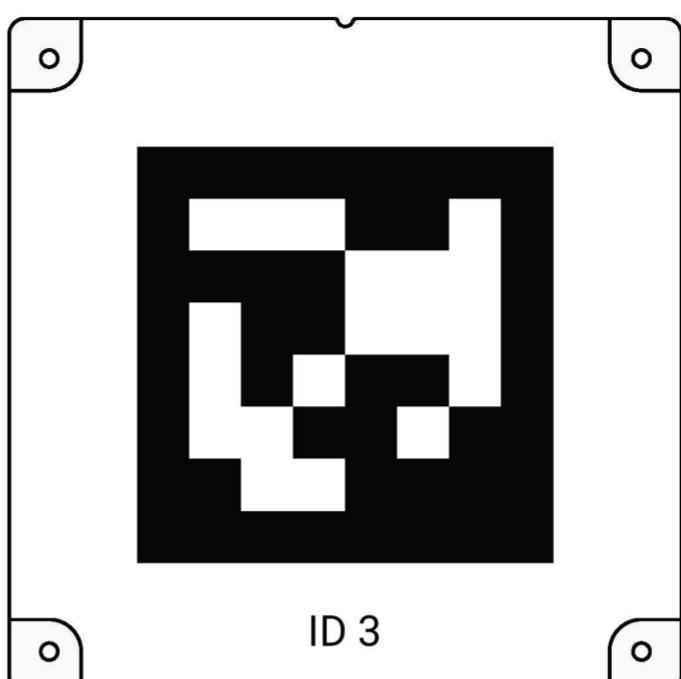
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES $.00X = \pm .01$ $ANGULAR = \pm 1^\circ$ $.00X = \pm .005$	VEND DRAWN	NAME OCD	DATE 09/04/2025	FIRST ROBOTICS COMPETITION
DO NOT SCALE DRAWING BREAK ALL SHARP EDGES AND REMOVE BURRS	MATERIAL POLYCARBONATE & VINYL	TITLE APRILTAG	SIZE C	
PROPRIETARY 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.	DWG NO. FE-00083	REV.	SCALE 1:1	SHEET 2 of 5



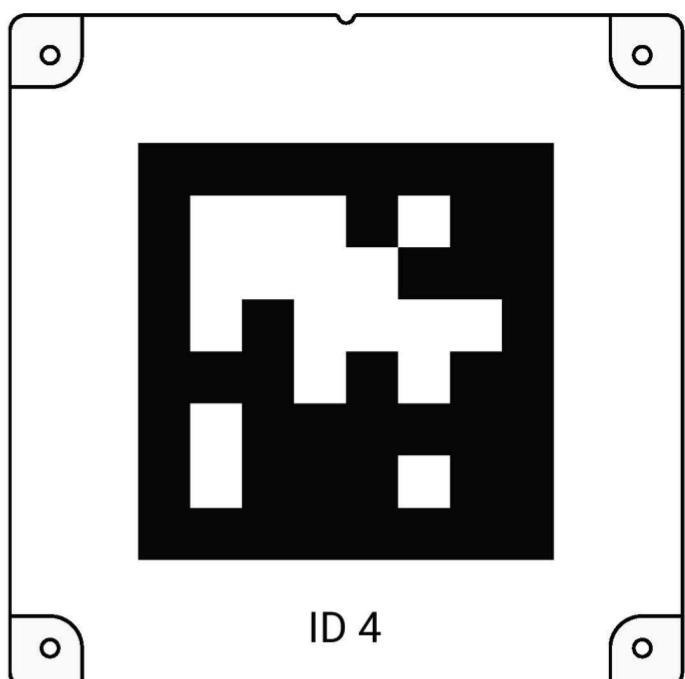
ID 1



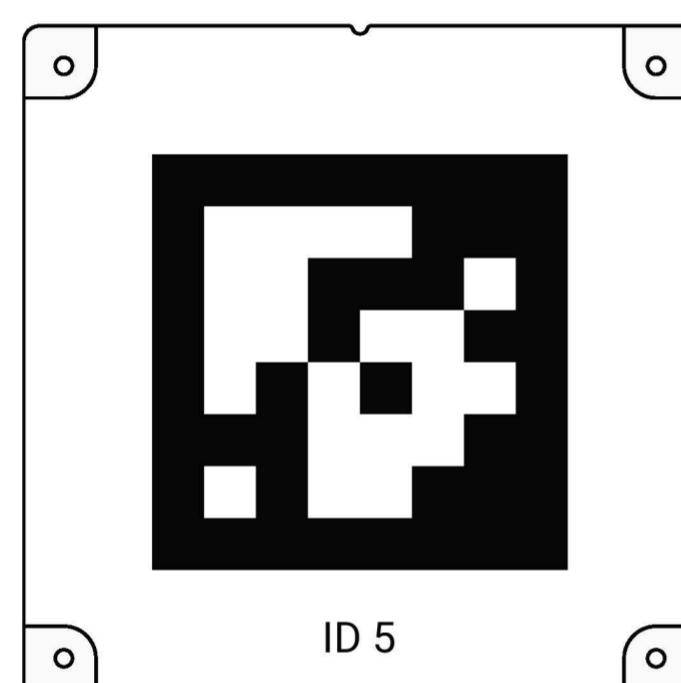
ID 2



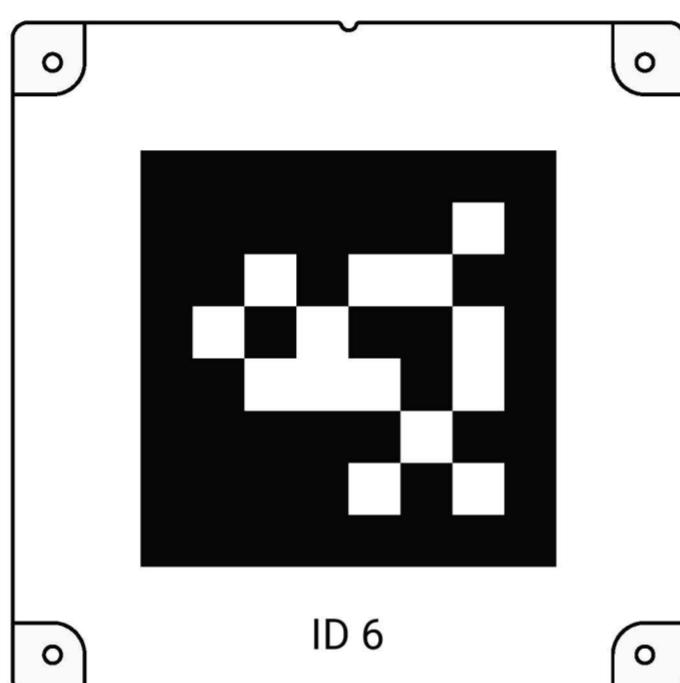
ID 3



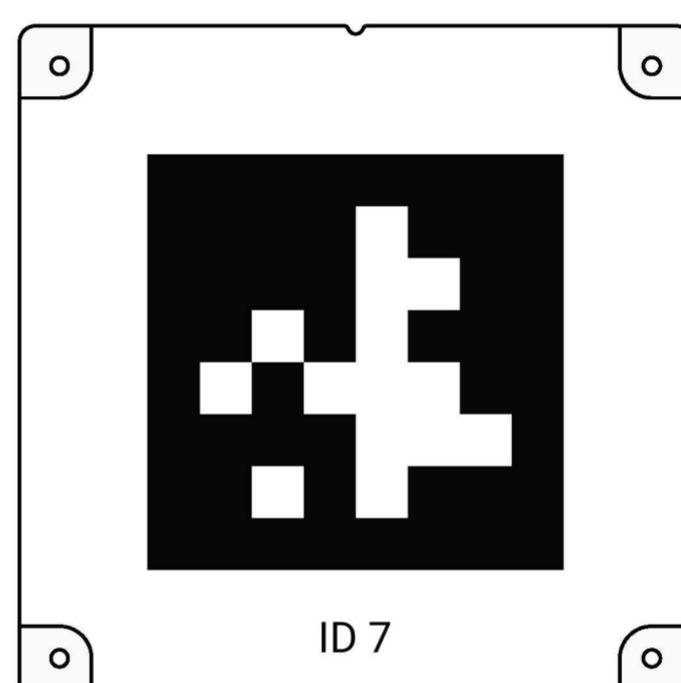
ID 4



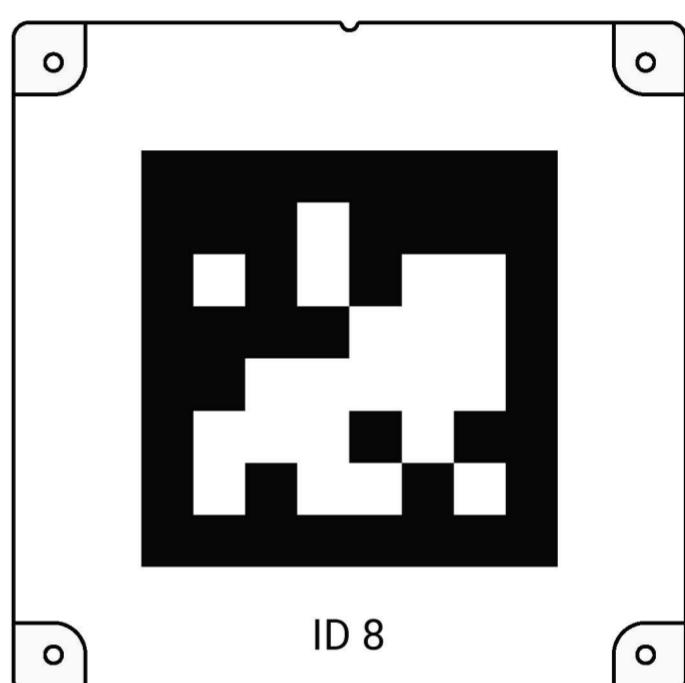
ID 5



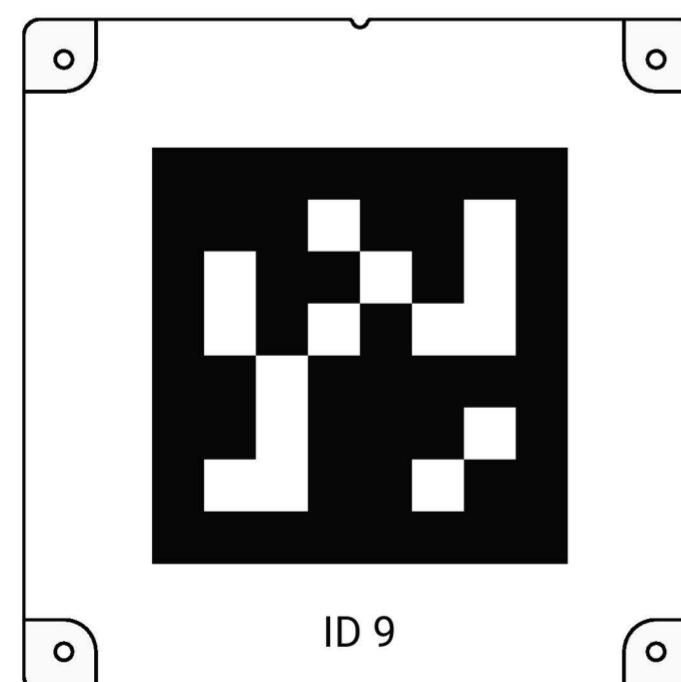
ID 6



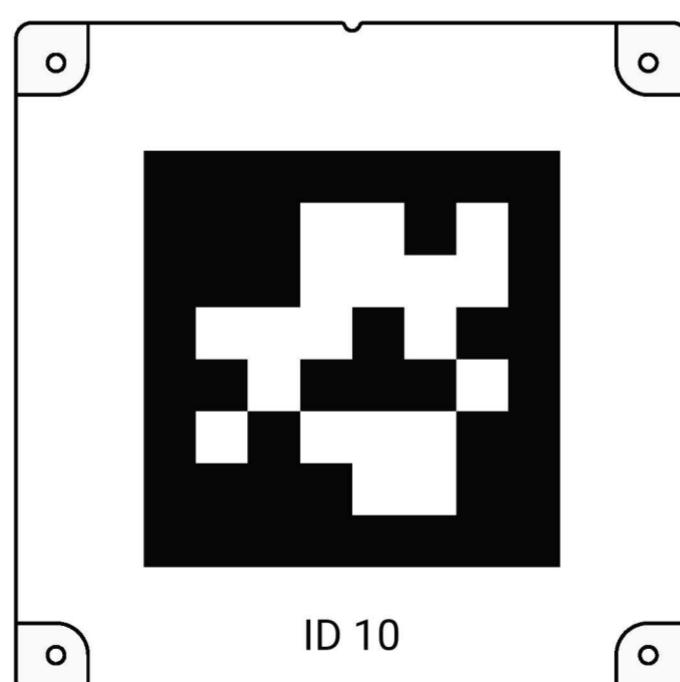
ID 7



ID 8



ID 9



ID 10

FE-00083-ID9

FE-00083-ID10

 UNLESS OTHERWISE SPECIFIED,
 DIMENSIONS ARE IN INCHES
 .XX = $\pm .01$ ANGULAR = $\pm 1^\circ$
 .XXX = $\pm .005$

DO NOT SCALE DRAWING

 BREAK ALL SHARP EDGES AND
 REMOVE BURRS
 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.

 VEND
 DRAWN
 MATERIAL

 NAME
 OCD
DATE
09/04/2025TITLE
APRILTAGPOLYCARBONATE
& VINYLSIZE
CDWG NO.
FE-00083

REV.

SCALE
1:3SHEET
3 of 5

APRILTAG

FE-00083

REV.

4

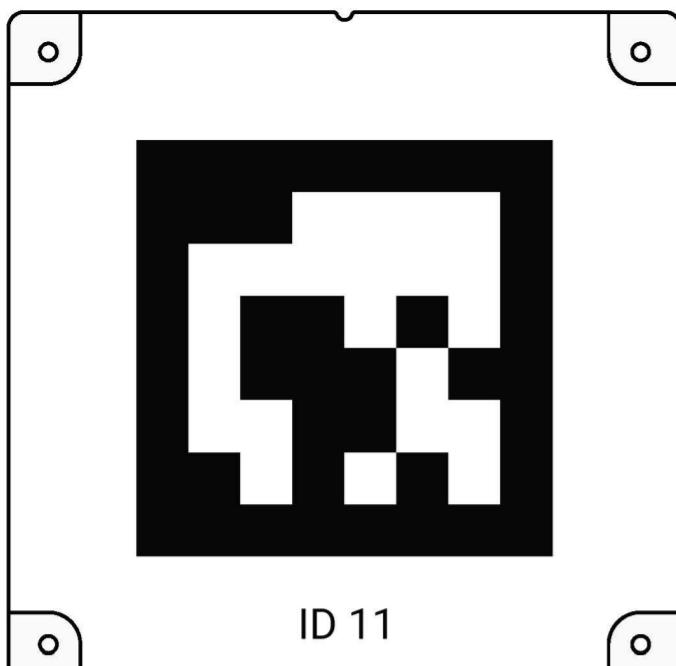
3

2

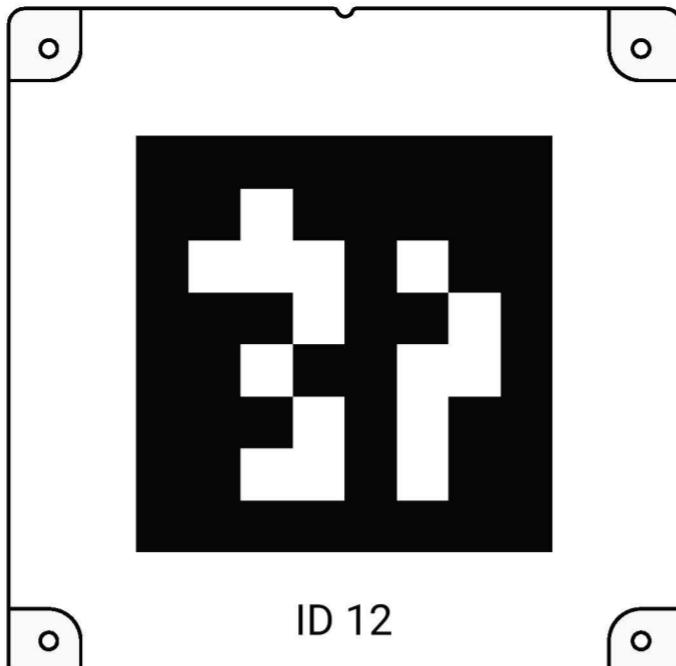
1

REVISIONS
See sheet 1

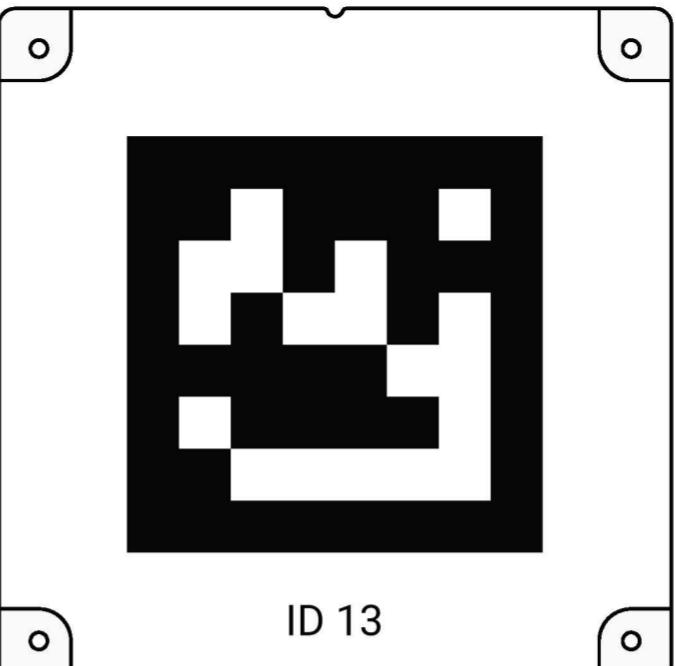
D



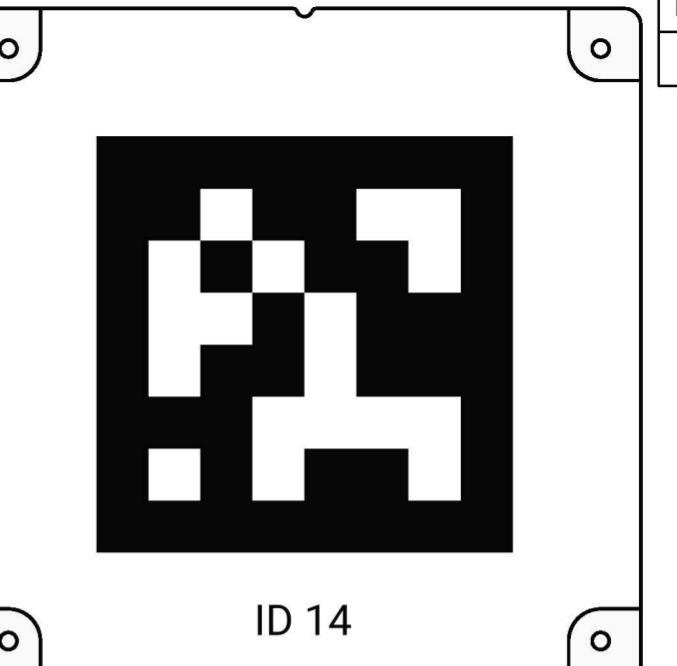
FE-00083-ID11



FE-00083-ID12

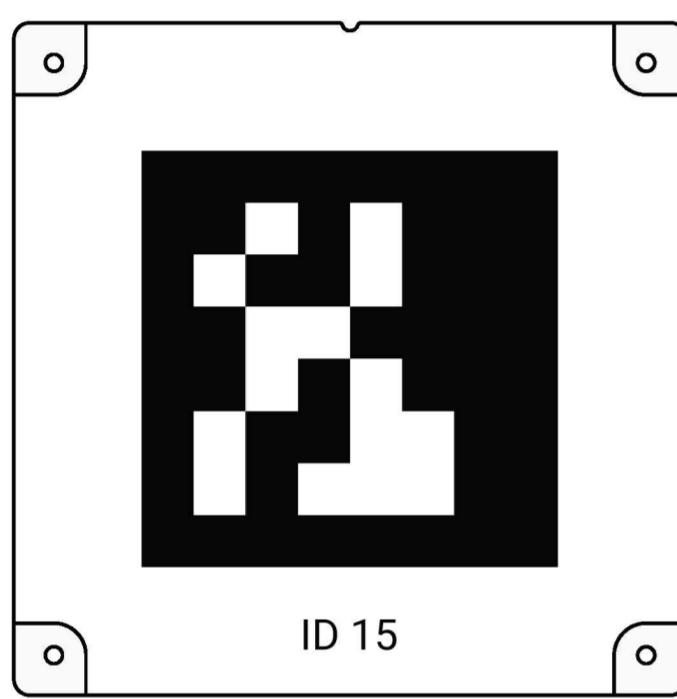


FE-00083-ID13

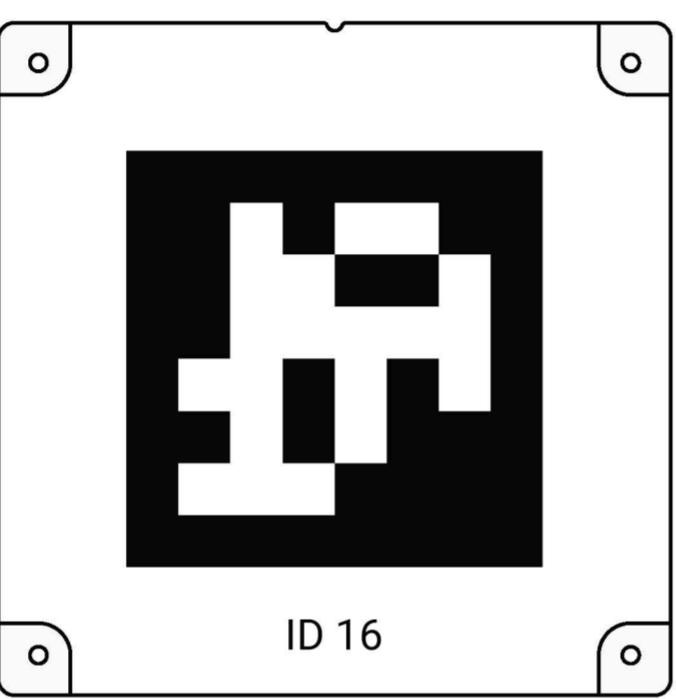


FE-00083-ID14

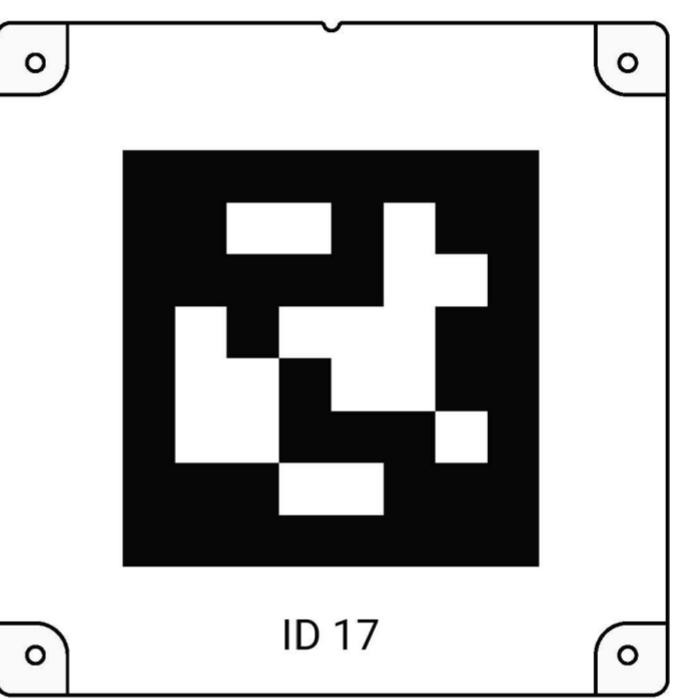
C



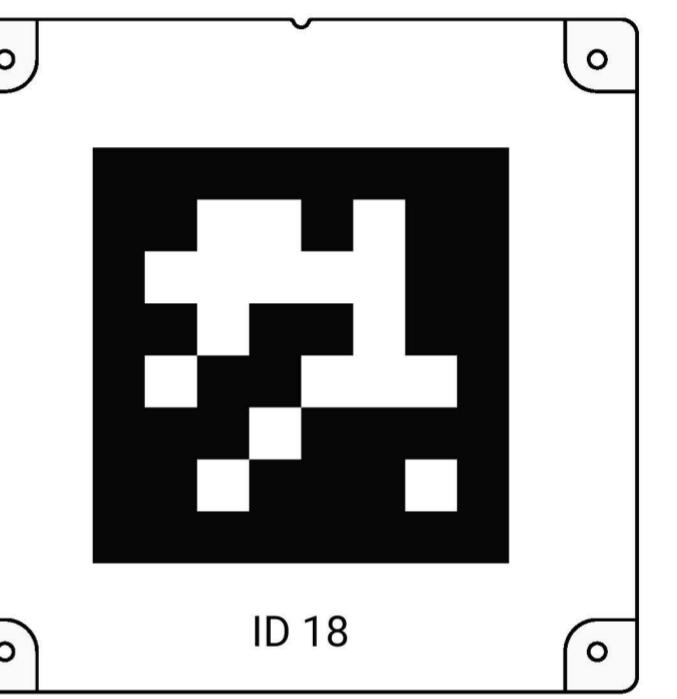
FE-00083-ID15



FE-00083-ID16

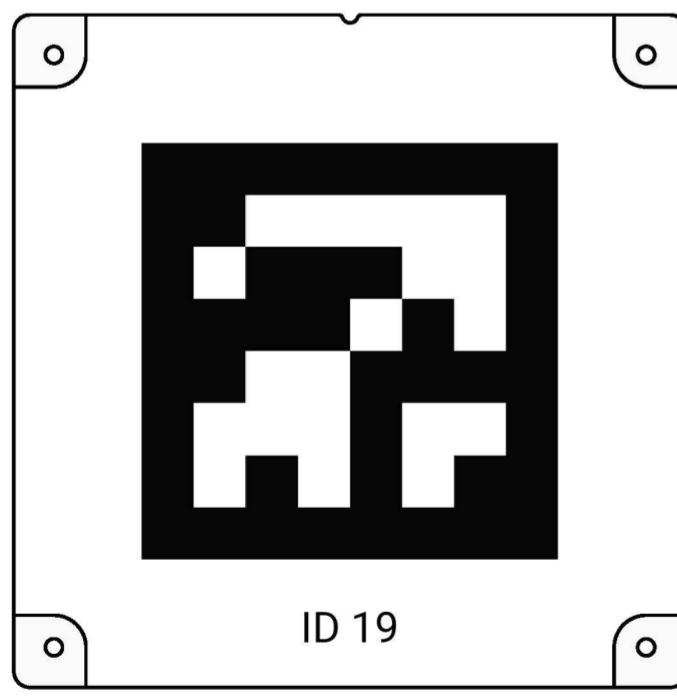


FE-00083-ID17

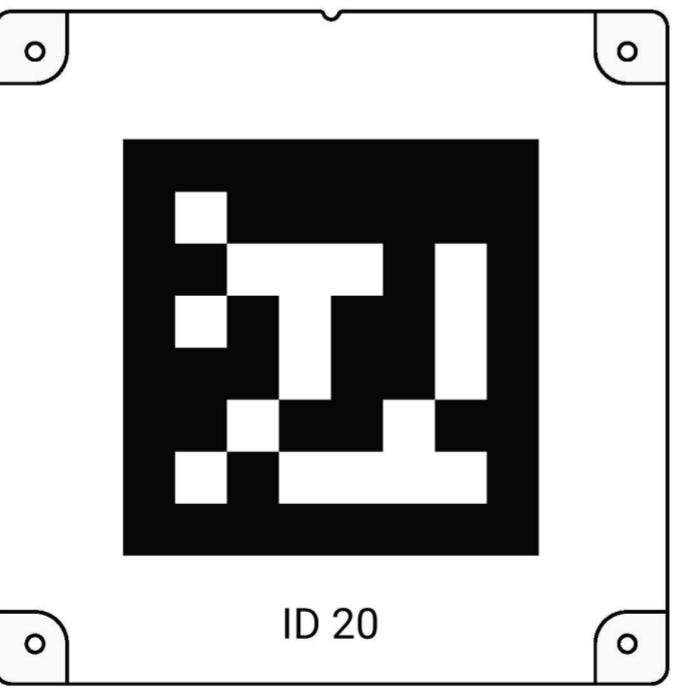


FE-00083-ID18

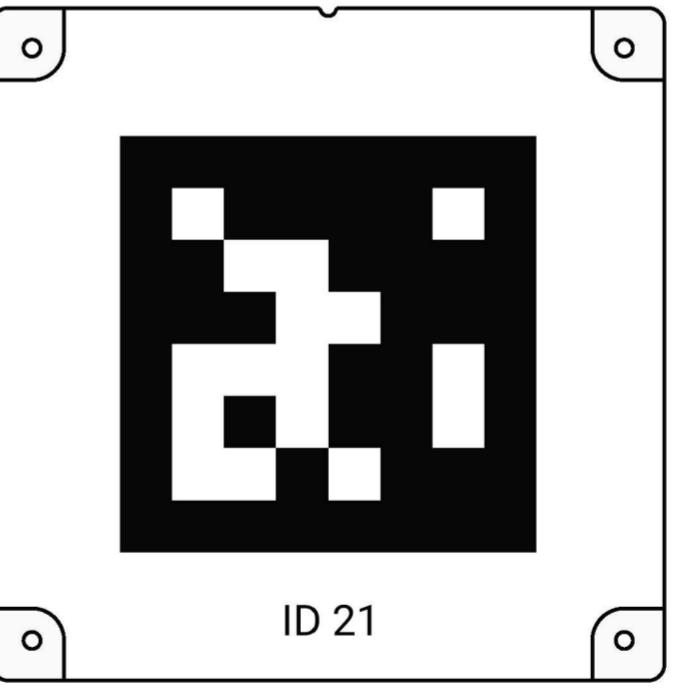
B



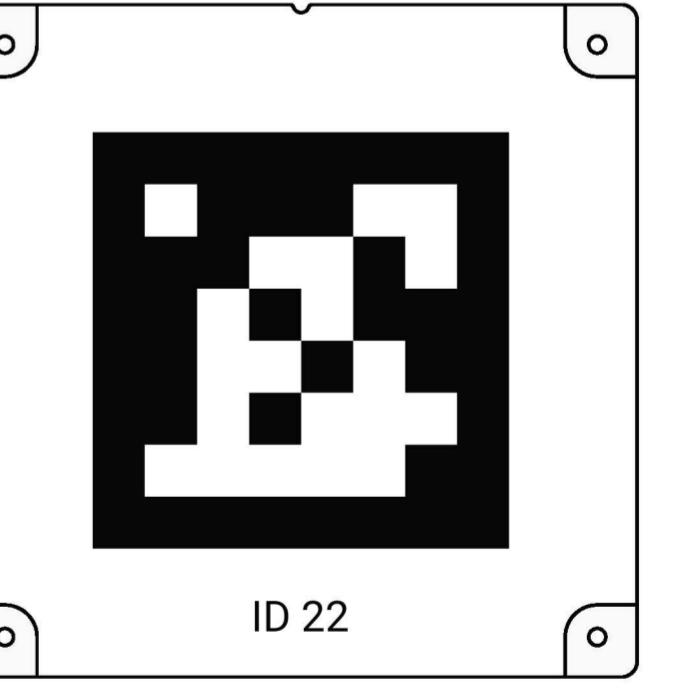
FE-00083-ID19



FE-00083-ID20



FE-00083-ID21



FE-00083-ID22

A

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES
.00 = ±.01 ANGULAR = ± 1°
.000 = ±.005

DO NOT SCALE DRAWING
BREAK ALL SHARP EDGES AND
REMOVE BURRS

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.

VEND
DRAWN
MATERIAL
POLYCARBONATE
& VINYL

NAME
OCD
TITLE
APRILTAG
DATE
09/04/2025
DWG NO.
FE-00083
REV.
1:3
SCALE
4 of 5
SHEET

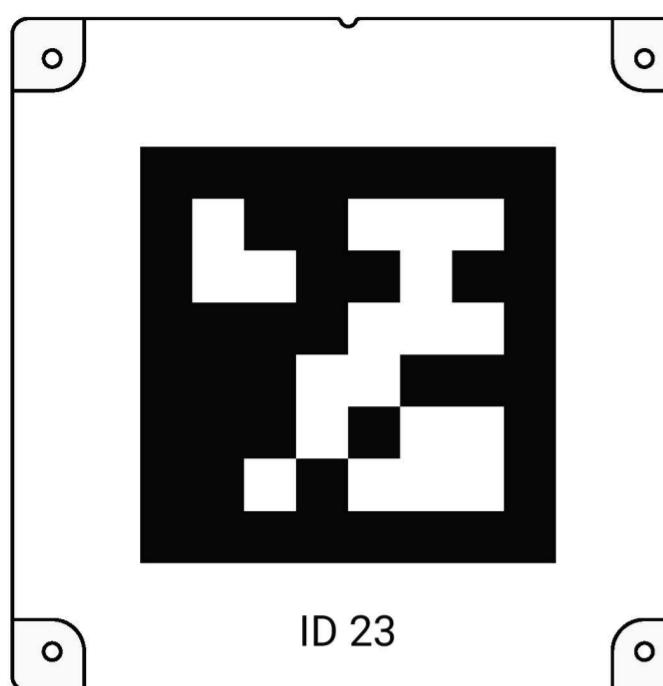
FIRST
ROBOTICS
COMPETITION

4

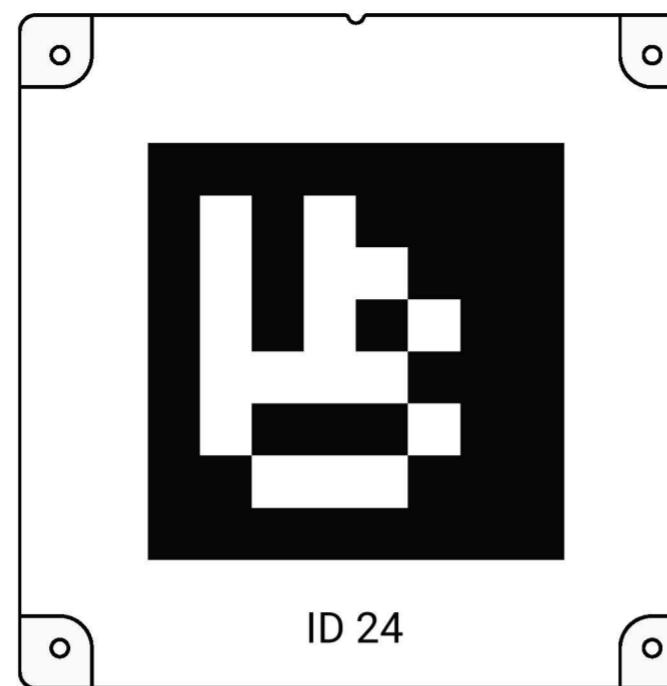
3

2

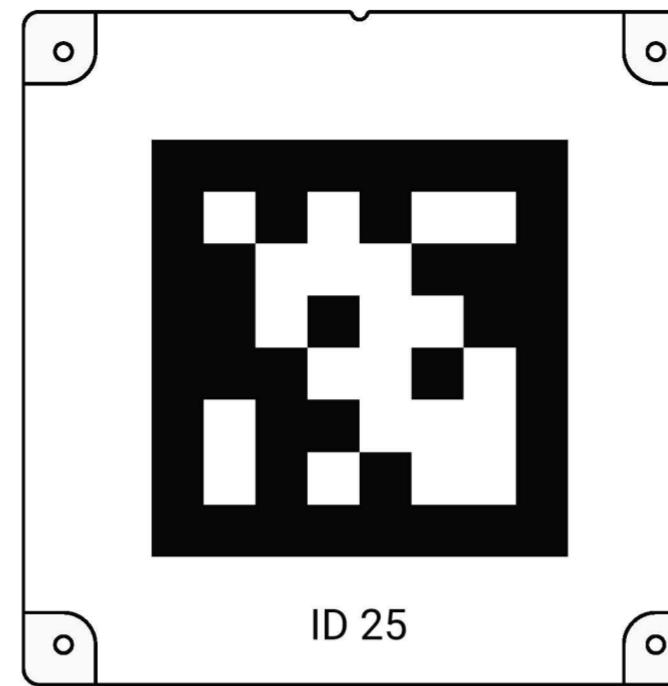
1



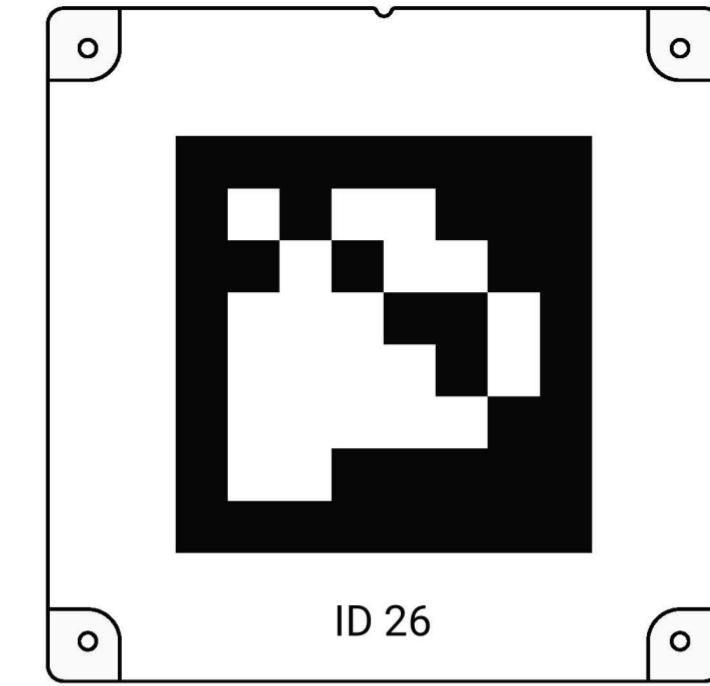
ID 23



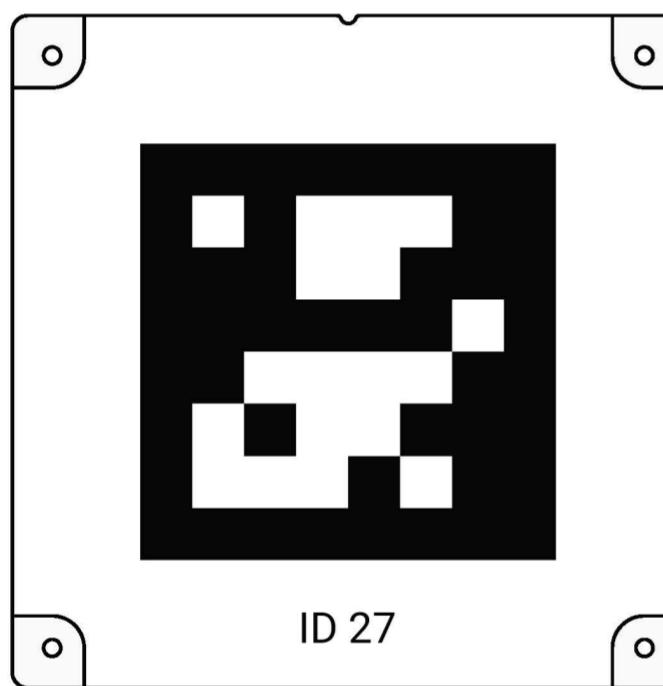
ID 24



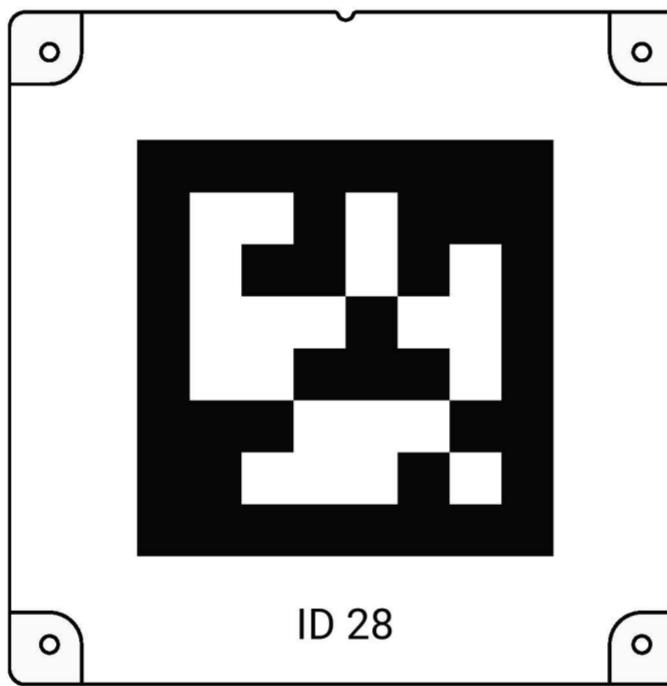
ID 25



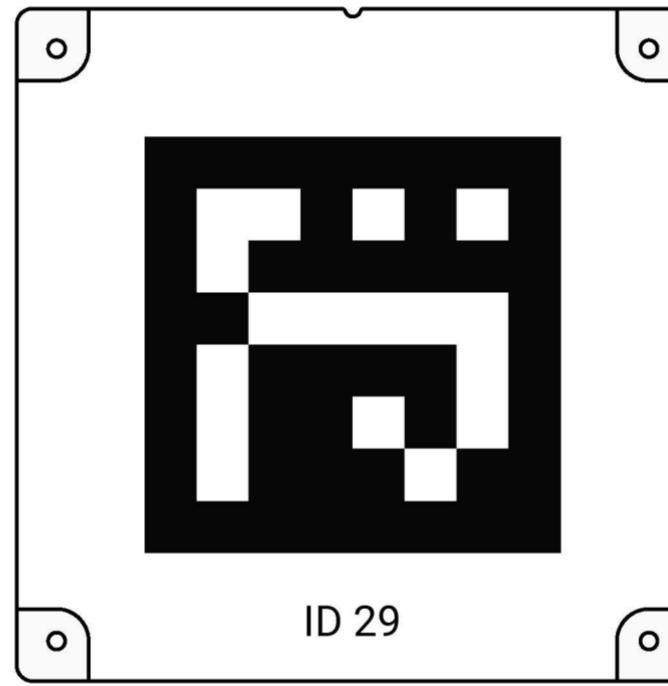
ID 26



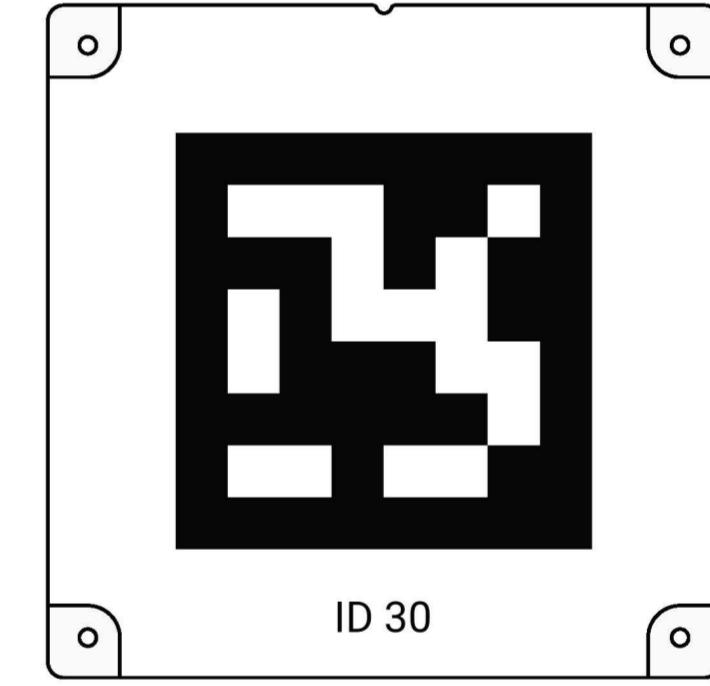
ID 27



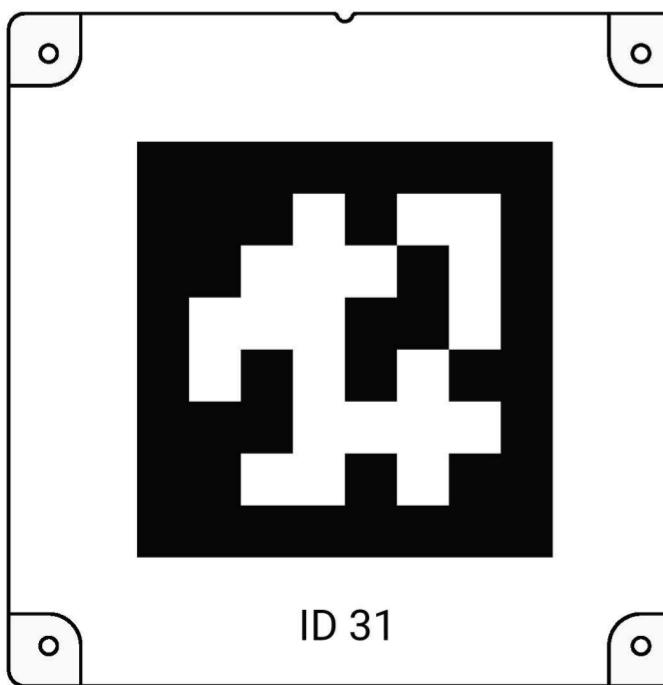
ID 28



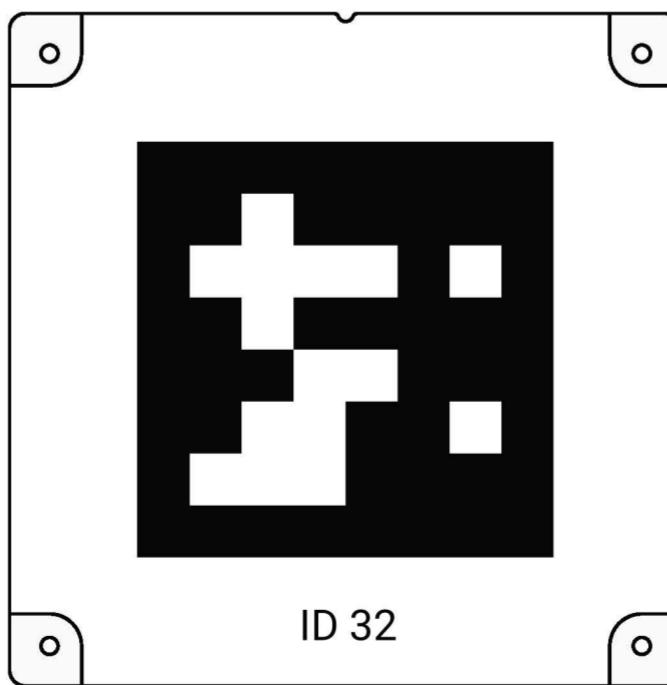
ID 29



ID 30



ID 31



ID 32

UNLESS OTHERWISE SPECIFIED,
 DIMENSIONS ARE IN INCHES
 $XX = \pm .01$ ANGULAR = $\pm 1^\circ$
 $XXX = \pm .005$

DO NOT SCALE DRAWING
 BREAK ALL SHARP EDGES AND
 REMOVE BURRS

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.

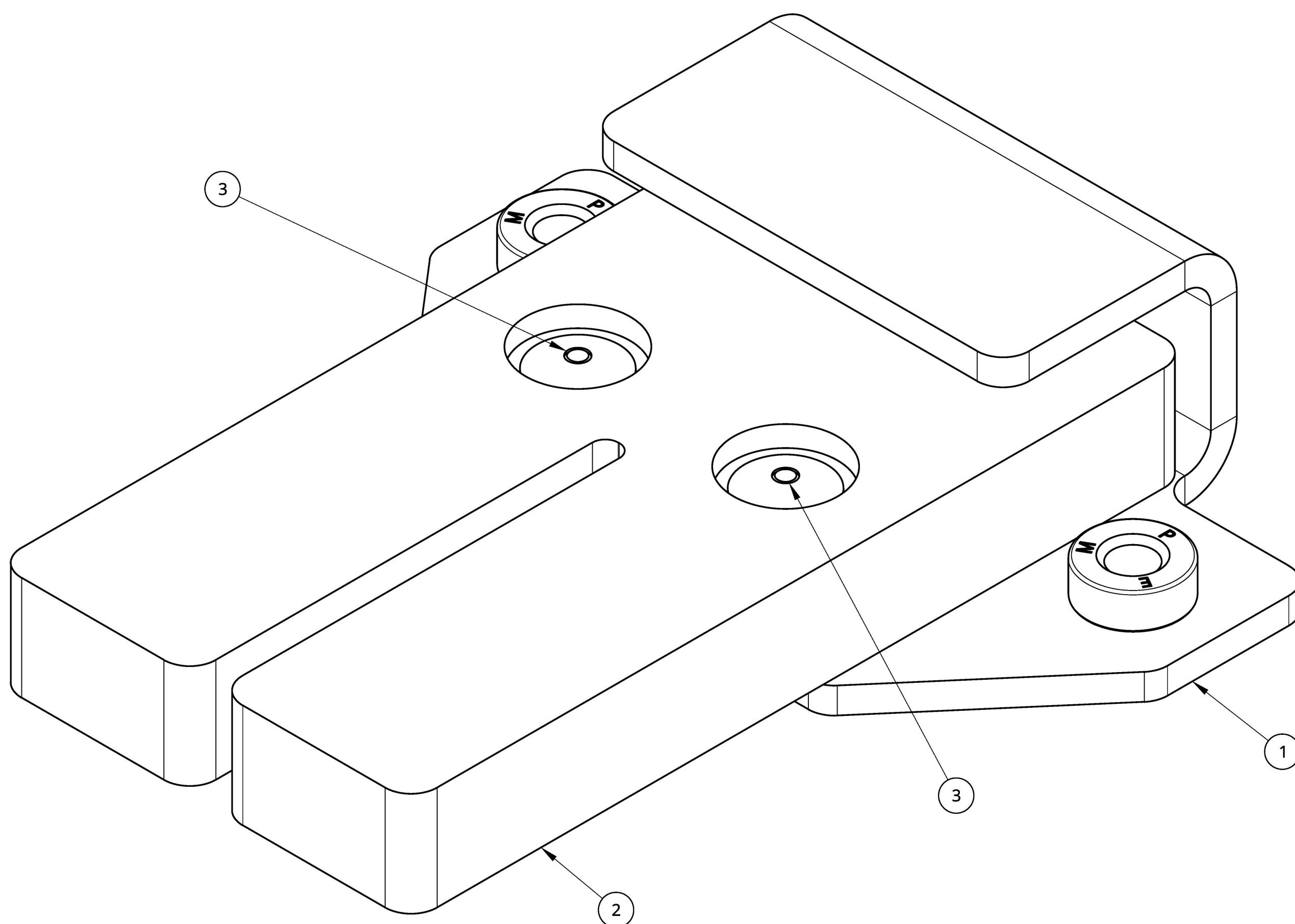
VEND	NAME	DATE
DRAWN	OCD	09/04/2025
MATERIAL		
POLYCARBONATE & VINYL		

FIRST
 ROBOTICS
 COMPETITION

APRILTAG

FE-00083

REV. 1:3 SHEET 5 of 5



Item	Quantity	Part number	Description
1	1	FE-00091	Driver Station Shelf Bracket w/ PEMs
2	1	FE-00092	Driver Station Shelf Support Plastic
3	2		3/16in Rivet, 0.501-0.625in Grip Length

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND	NAME	DATE	 FIRST ROBOTICS COMPETITION
DO NOT SCALE DRAWING	DRAWN	JO	10/08/2025	
MATERIAL				TITLE
DRIVER STATION SHELF SUPPORT				SIZE C DWG NO. FE-00090 REV.
SCALE 3:1	SHEET 1 of 1			

D

D

C

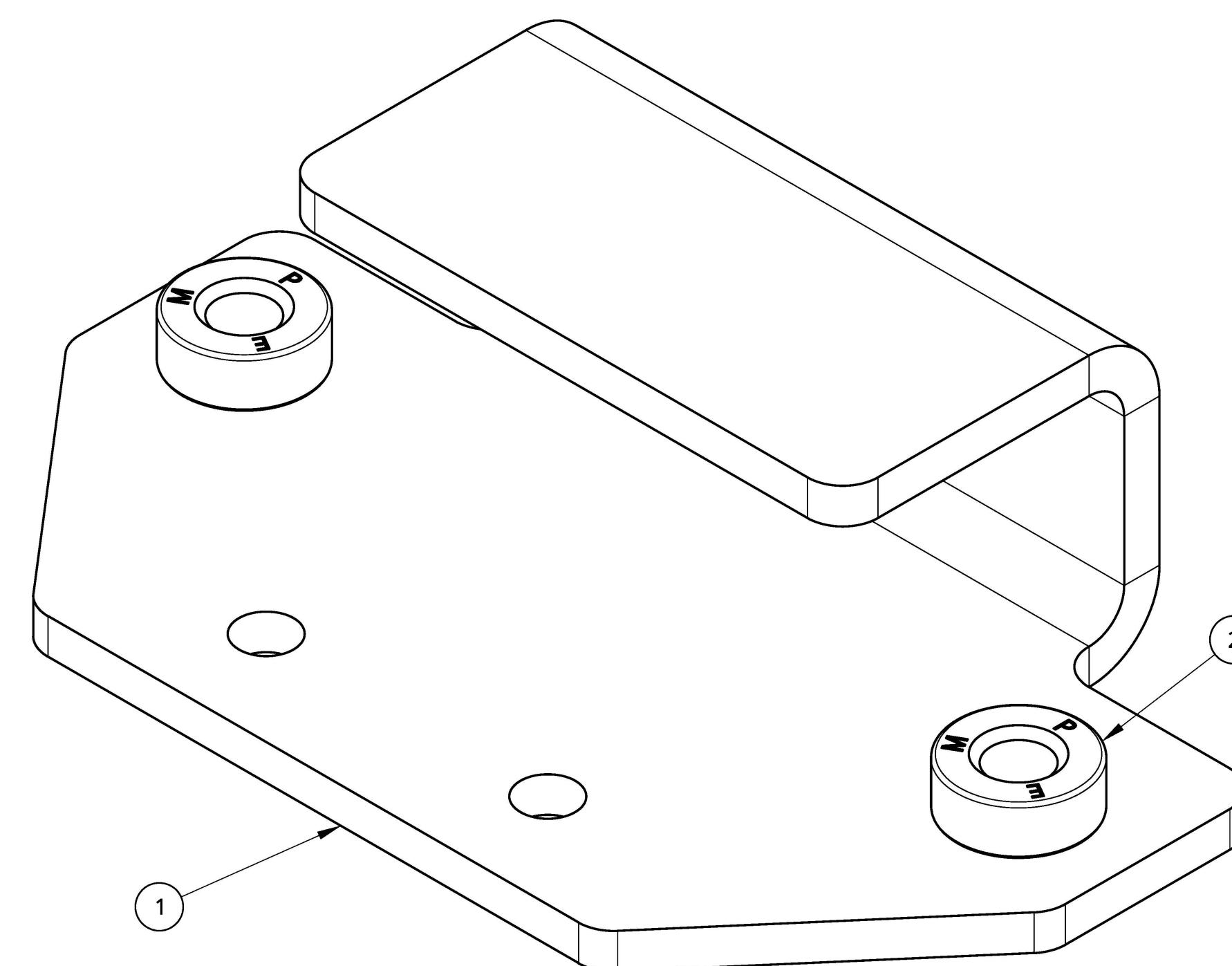
C

B

B

A

A

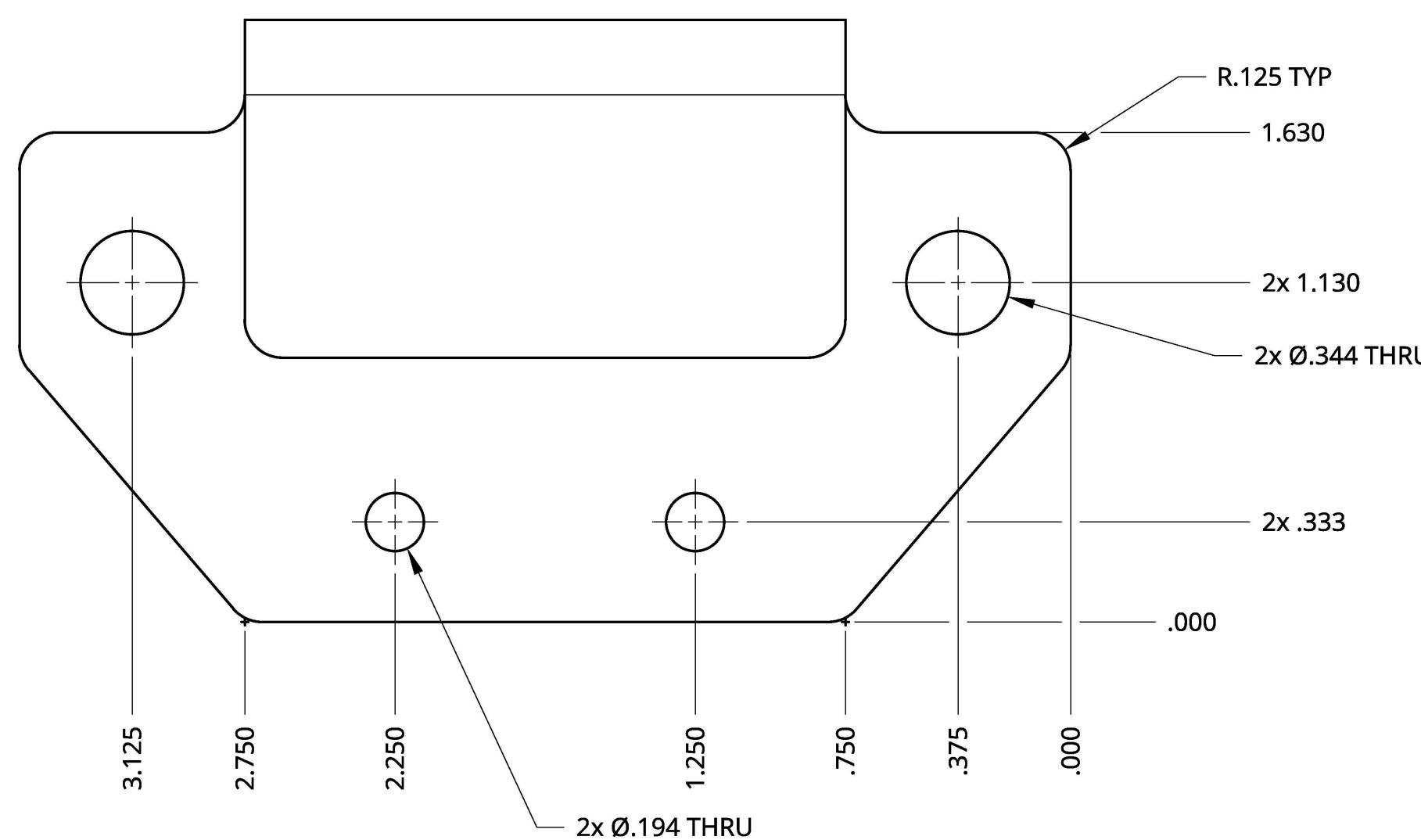


Item	Quantity	Part number	Description
1	1	FE-00091-01	Driver Station Shelf Bracket
2	2		PEM S-0420-3 ZI Carbon Steel Zinc plated

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	VEND	NAME	DATE	FIRST ROBOTICS COMPETITION
	DRAWN	JO	10/08/2025	
DO NOT SCALE DRAWING	MATERIAL			
BREAK ALL SHARP EDGES AND REMOVE BURRS	TITLE DRIVER STATION SHELF BRACKET W/ PEMS			
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.	SIZE	DWG NO.	REV.	
	C	FE-00091		
SCALE	3:1	SHEET	1 of 2	

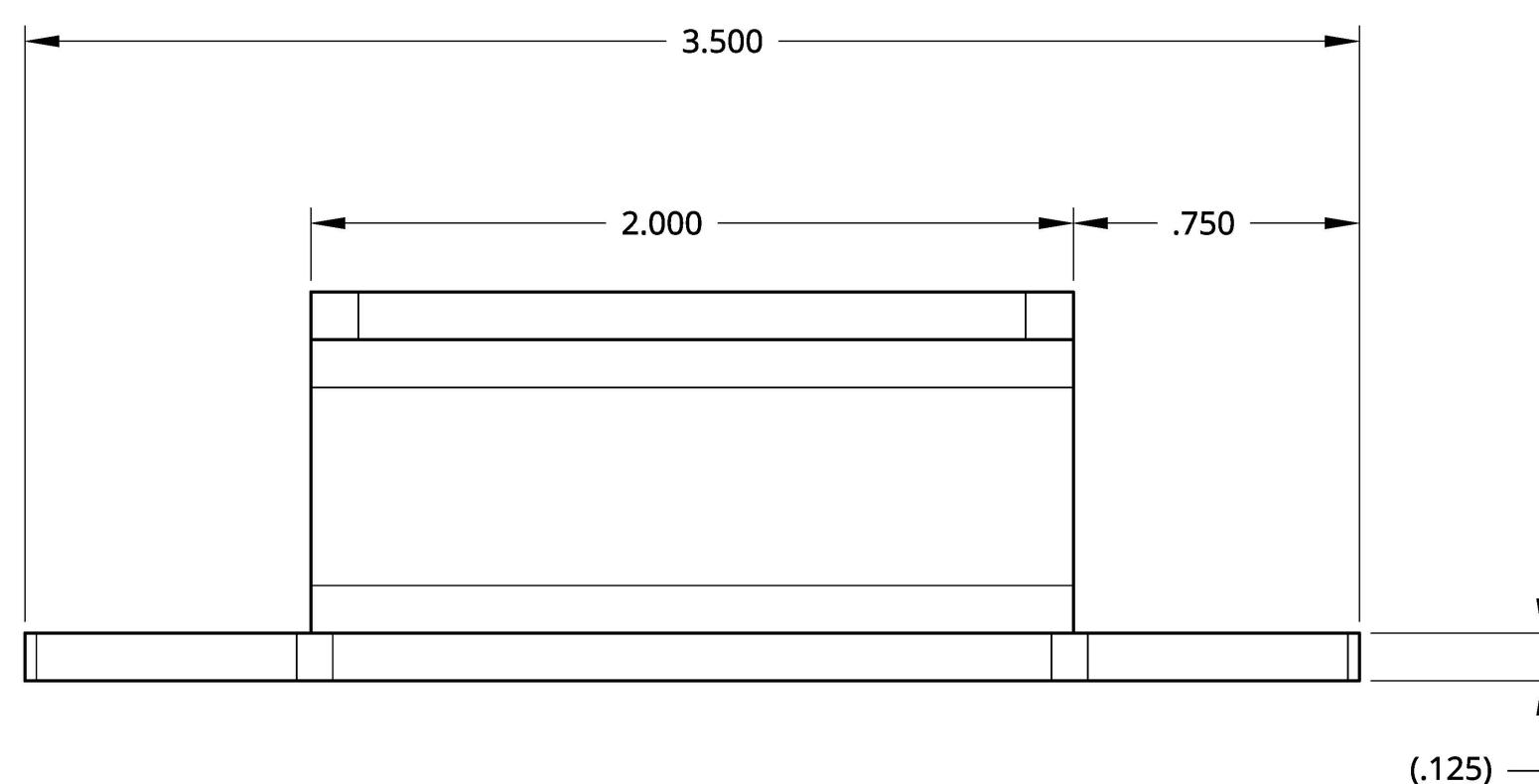
D

D



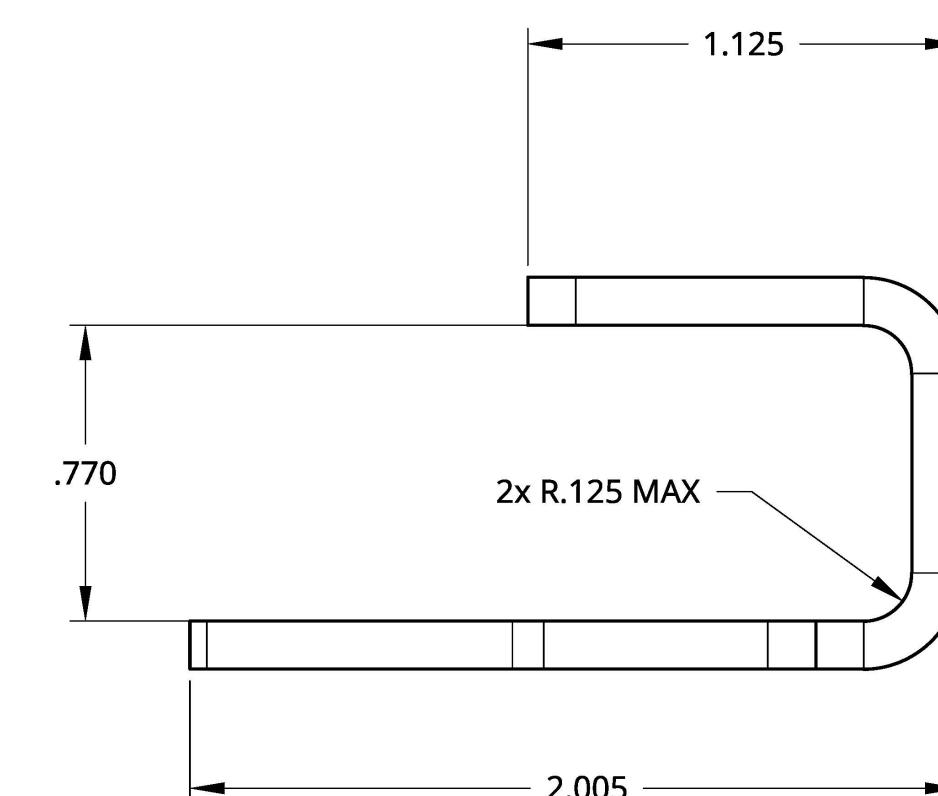
C

C



B

B



A

A

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	BEND DRAWN	NAME JO	DATE 10/08/2025	FIRST ROBOTICS COMPETITION	
DO NOT SCALE DRAWING BREAK ALL SHARP EDGES AND REMOVE BURRS	MATERIAL 1/8" 5052 ALUMINUM		TITLE DRIVER STATION SHELF BRACKET		
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.			SIZE C	DWG NO. FE-00091-01	REV.
SCALE 2:1	SHEET 2 of 2				

D

D

C

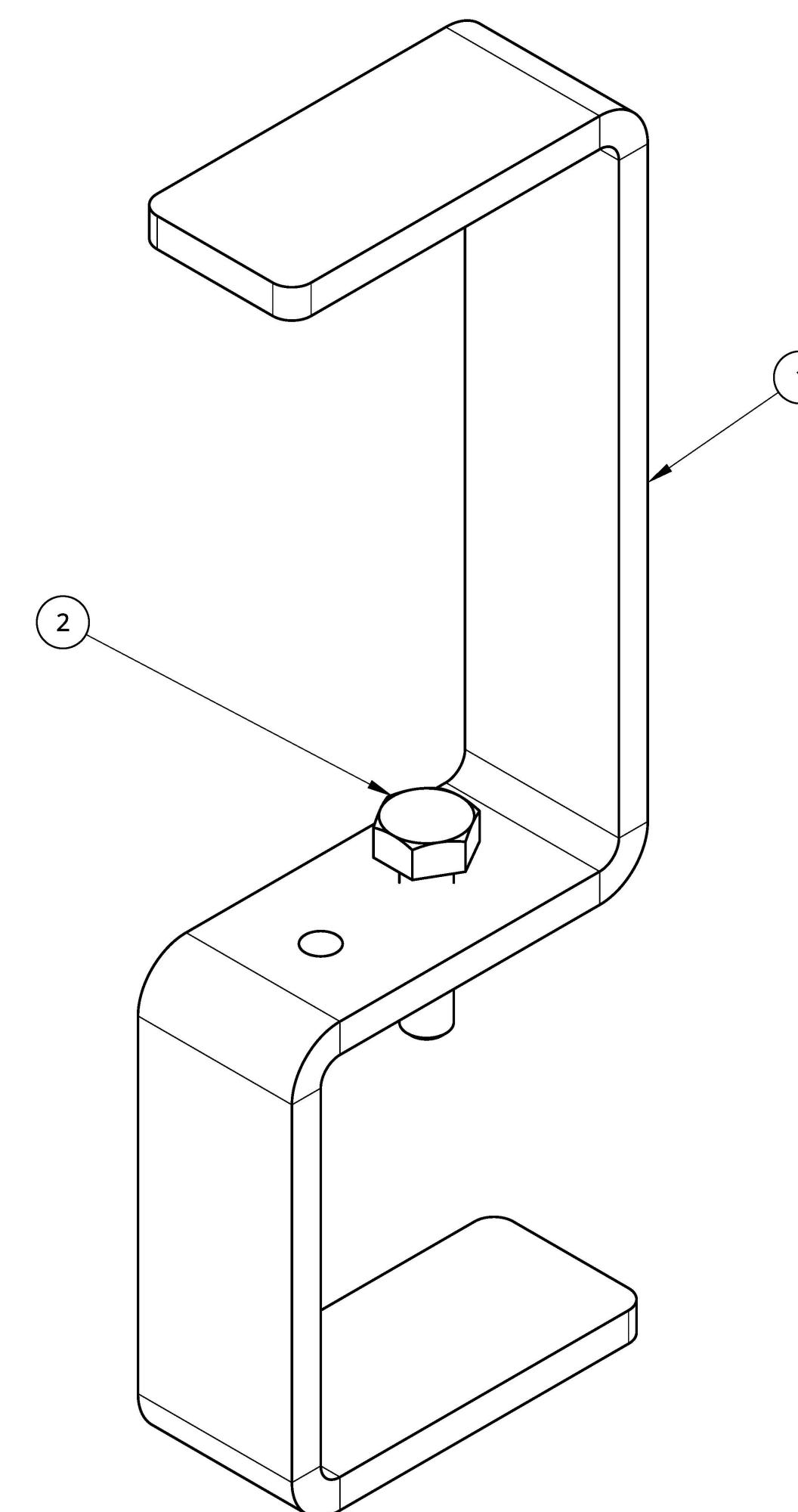
C

B

B

A

A

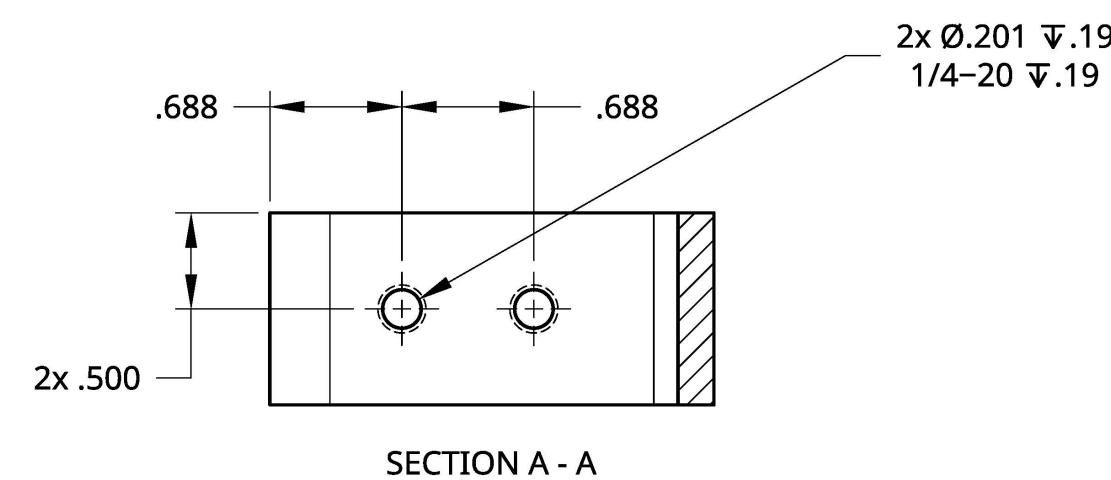


Item	Quantity	Part number	Description
1	1	FE-00321	Driver Station Sponsor Bracket
2	1		Hex bolt 1/4-20 x 1 x 0.75 Steel Zinc Plated

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01 ANGULAR = ± 1° .XXX = ±.005	BEND	NAME	DATE	FIRST ROBOTICS COMPETITION
	DRAWN	OCD	10/17/2025	
DO NOT SCALE DRAWING	MATERIAL			
BREAK ALL SHARP EDGES AND REMOVE BURRS	TITLE			
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.	AS ASSEMBLED			
	SIZE	DWG NO.		REV.
	C	FE-00320		
	SCALE	3:2	SHEET	1 of 1

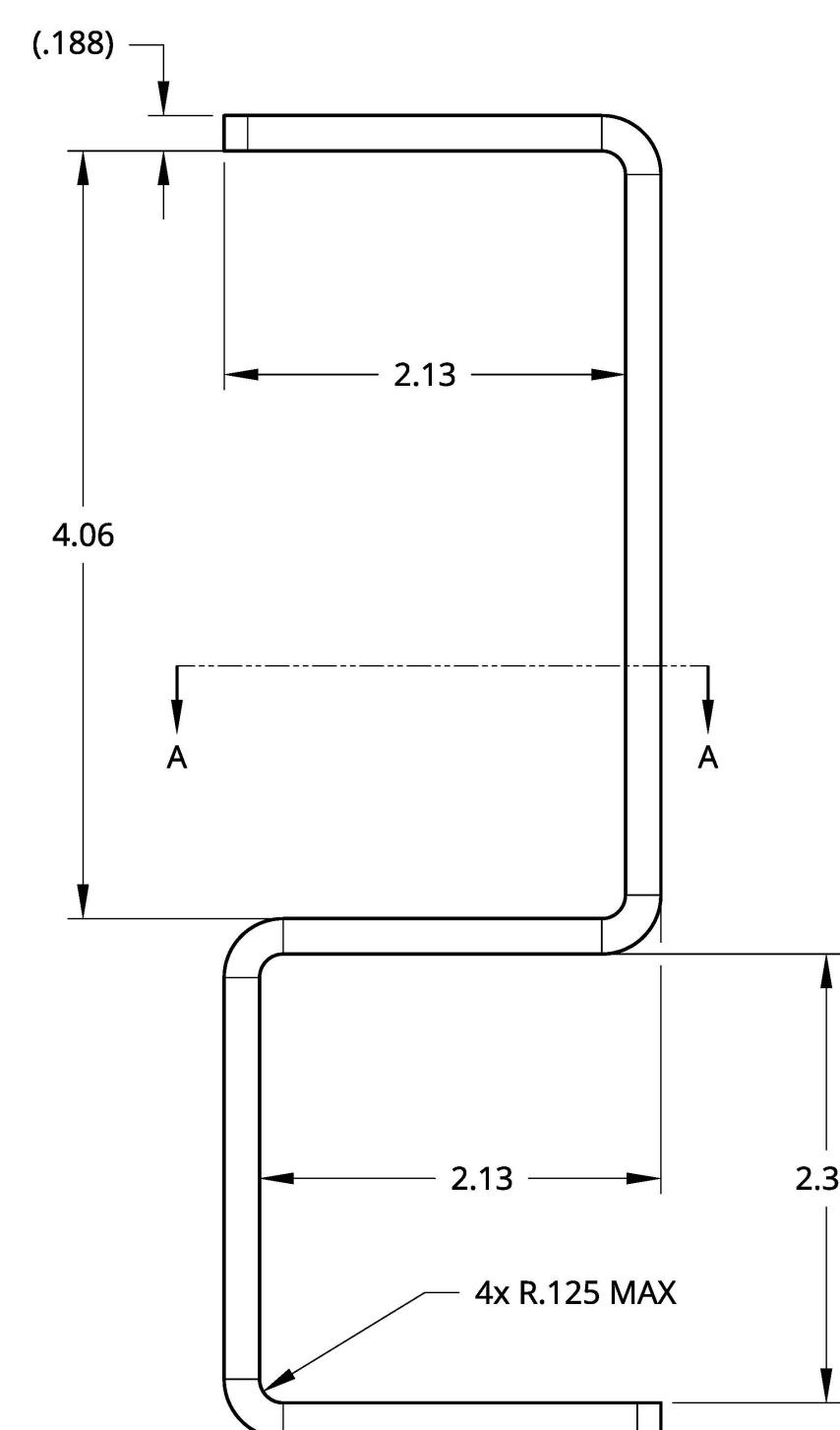
D

D



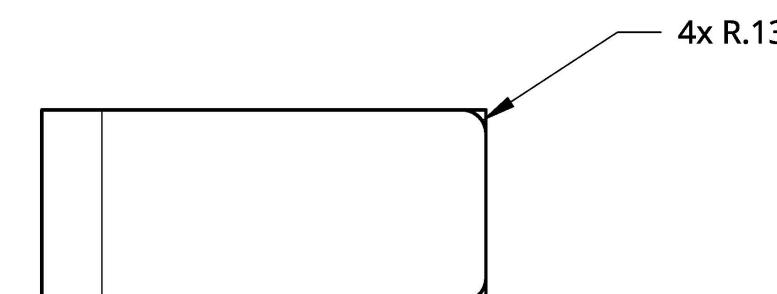
C

C



B

B



A

A

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES
XX = ±.01 ANGULAR = ± 1°
XXX = ±.005

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

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.

BEND
DRAWN

NAME
OCDDATE
10/17/2025

MATERIAL

0.188IN PLATE, LOW CARBON
STEEL, POWDER COATED
(POWDER TECHNOLOGY INC,
PT-ES03-BS13 BLACK MIDNIGHT
MAGIC, MATTE)

FIRST
ROBOTICS
COMPETITION

TITLE
DRIVER STATION SPONSOR BRACKETSIZE C DWG NO.
FE-00321

SCALE 1:1 SHEET 1 of 1