

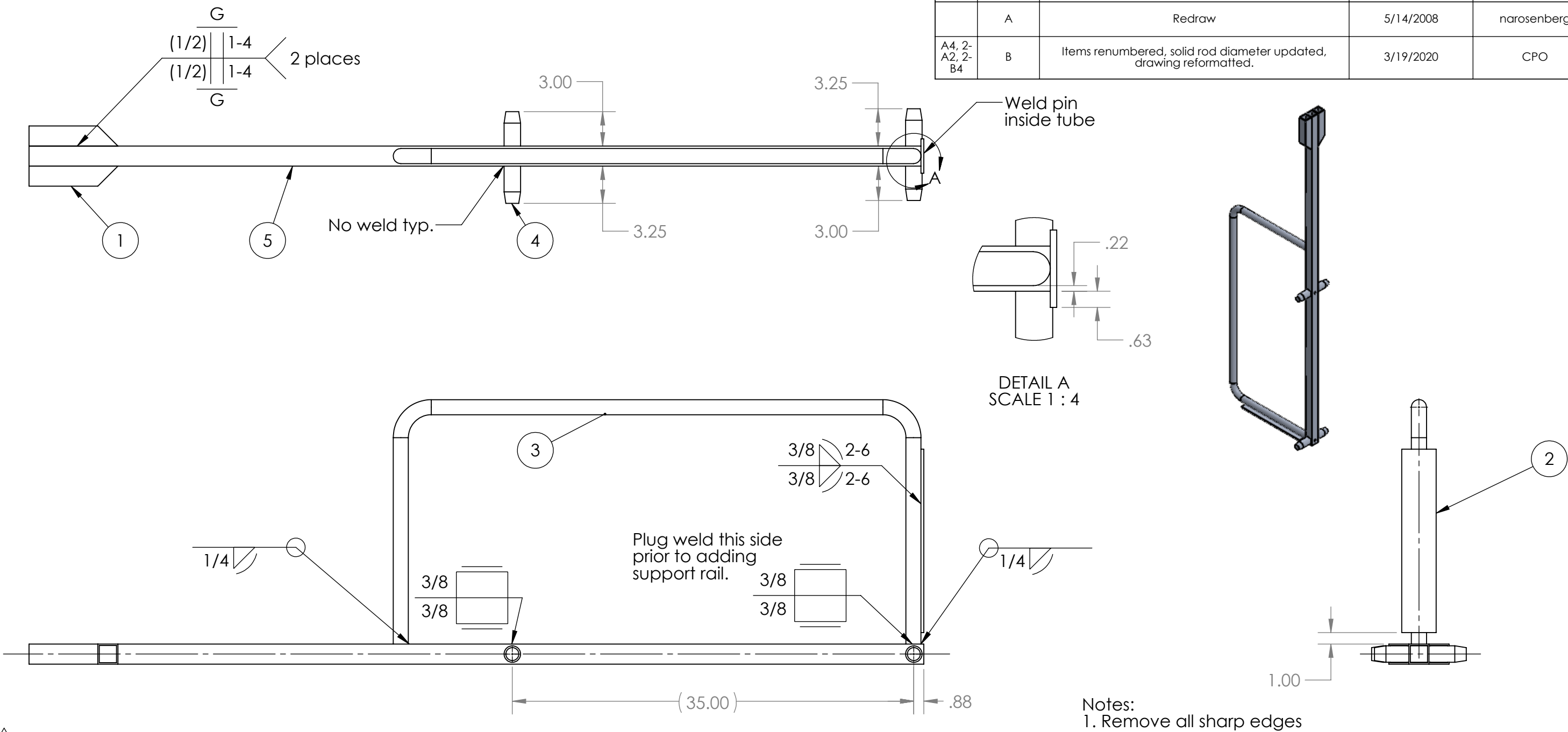
B

A

B

A



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	Redraw	5/14/2008	narosenberg
A4, 2-A2, 2-B4	B	Items renumbered, solid rod diameter updated, drawing reformatted.	3/19/2020	CPO



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FE-00001-01	1 3/4" x 1 3/4" x 1/8" 6061 Aluminum Tubing	2
2	FE-00001-02	1/4" 6061 Aluminum Plate	1
3	FE-00001-03	1" Schedule 40 Aluminum Tube	1
4	FE-00001-04	1 7/16" Dia. 6061 Aluminum Solid Rod	2
5	FE-00001-05	1 3/4" x 1 3/4" x 1/8" 6061 Aluminum Tubing	1

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DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL: ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.001  INTERPRET GEOMETRIC TOLERANCING PER: MATERIAL  FINISH		DRAWN	
		CHECKED	
		ENG APPR.	
		MFG APPR.	
		Q.A.	
NEXT ASSY		USED ON	
APPLICATION		DO NOT SCALE DRAWING	



TITLE:  

# Drivers Station Support

SIZE  
**B**

DWG. NO.  
**FE-00001**

REV  
**B**

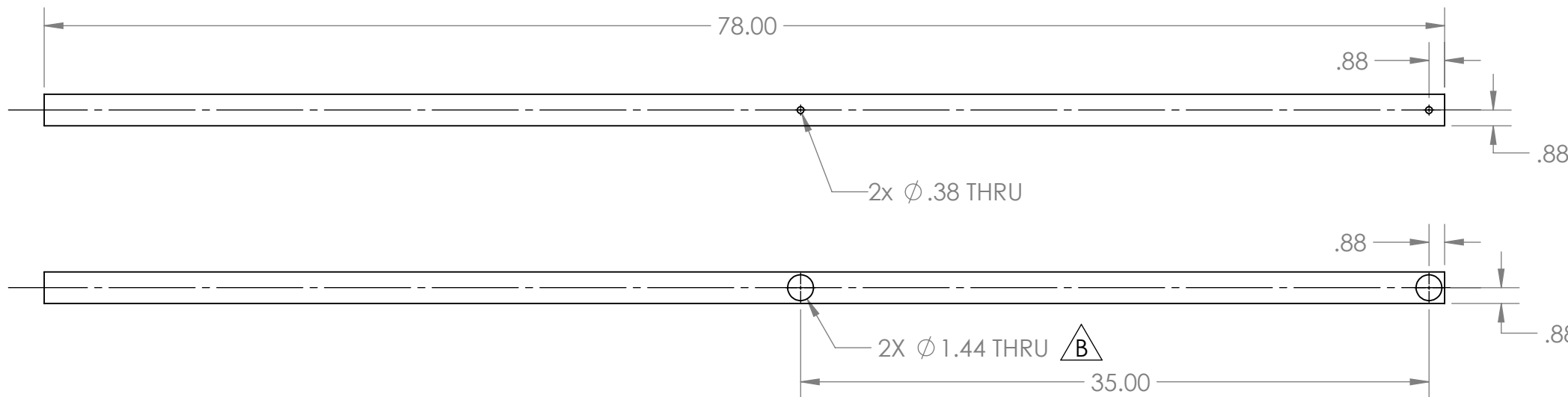
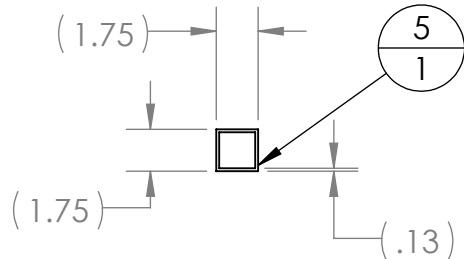
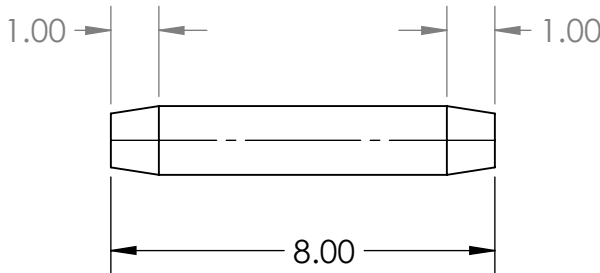
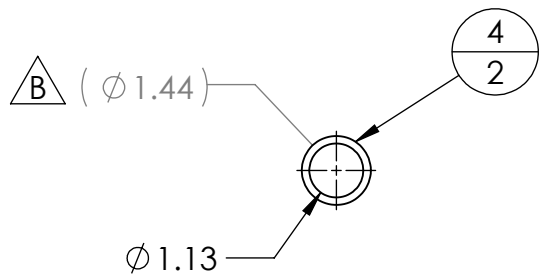
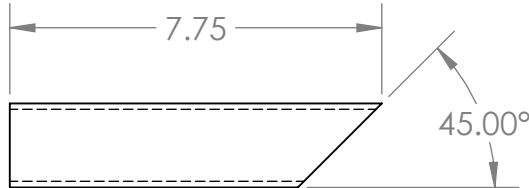
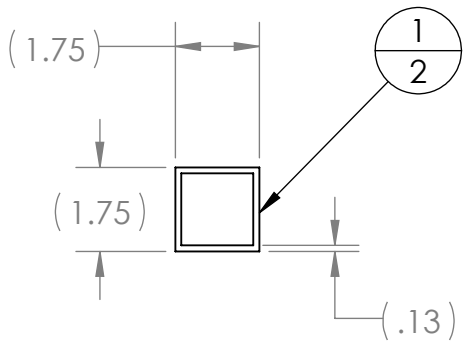
SCALE: 1:9 WEIGHT: SHEET 1 OF 3

4



3

2

1



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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	<div></div> <div>TITLE: <b>Drivers Station Support</b></div> <div>SIZE <b>B</b> DWG. NO. <b>FE-00001</b> REV <b>B</b></div> <div>SCALE: 1:2 WEIGHT: SHEET 2 OF 3</div>
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .001$	DRAWN			
			CHECKED			
			ENG APPR.			
			MFG APPR.			
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			COMMENTS:
		MATERIAL				
		FINISH				
NEXT ASSY	USED ON					
APPLICATION		DO NOT SCALE DRAWING				

4

3

2

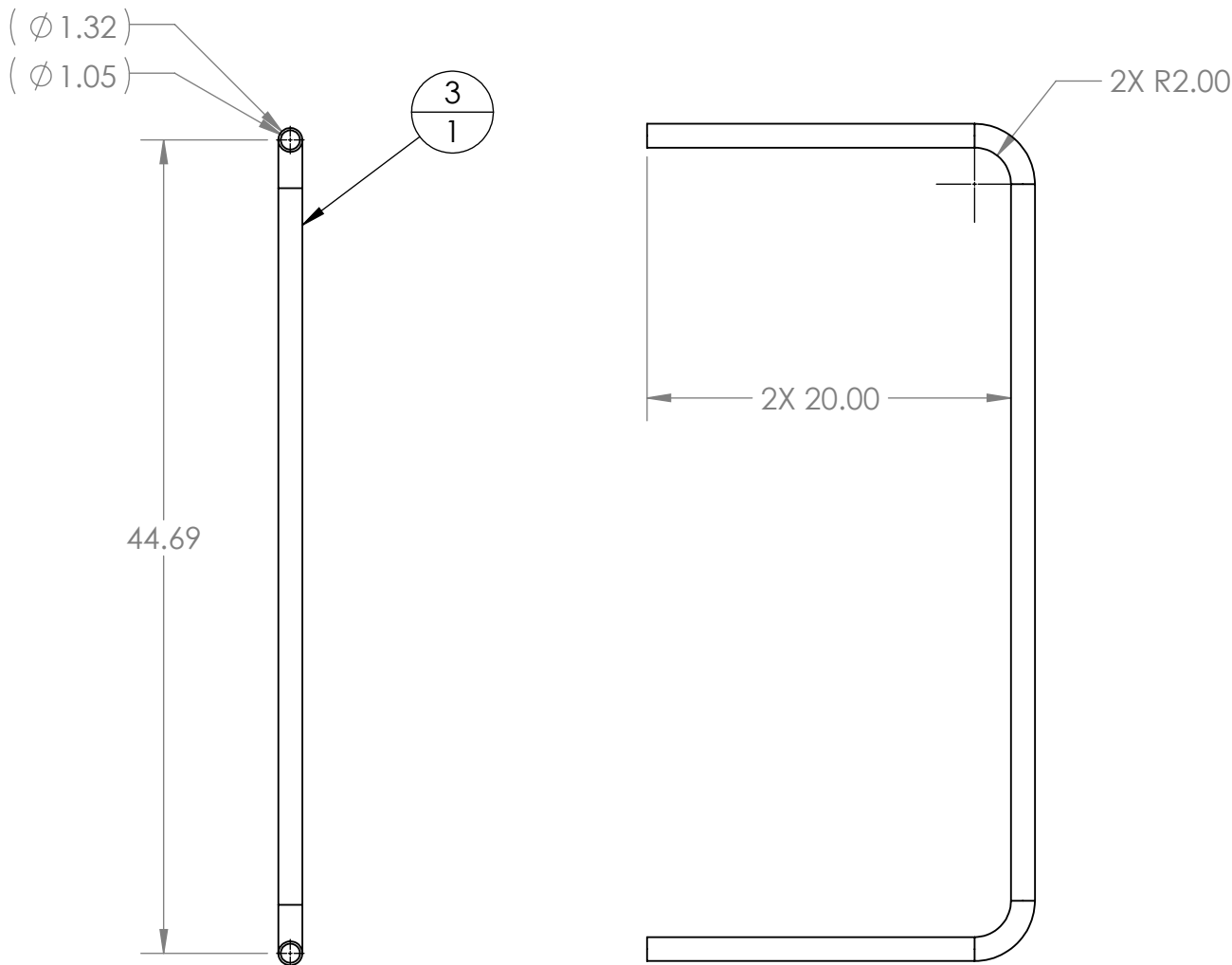
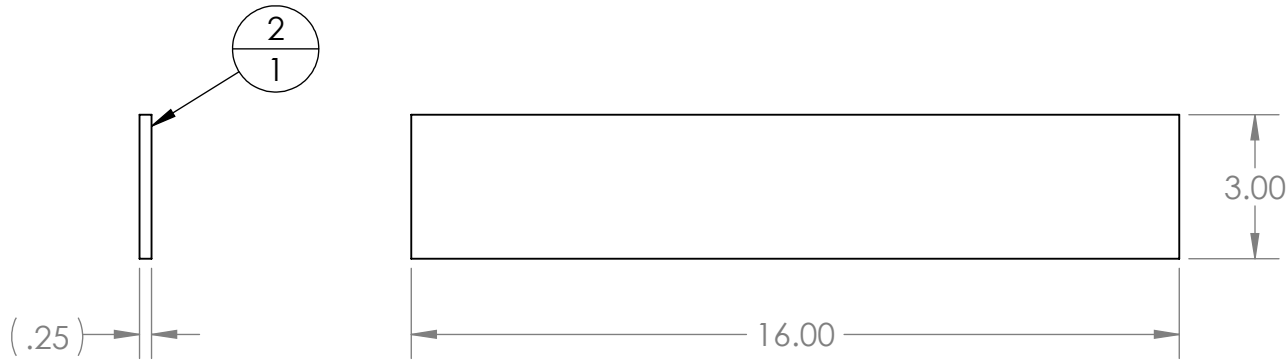
1

4



3

2

1



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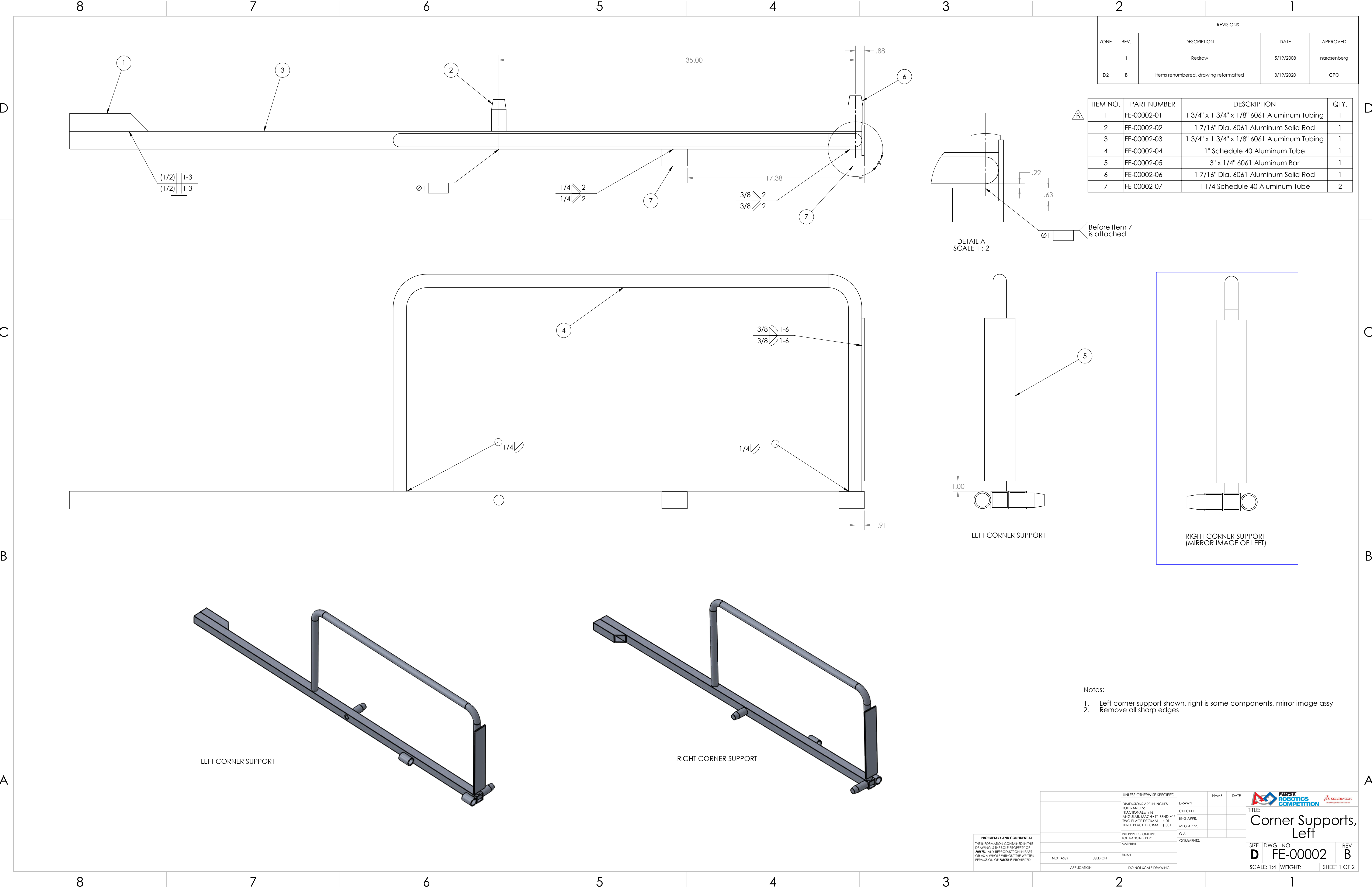
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			DRAWN				
			CHECKED				
			ENG APPR.				
			MFG APPR.			SIZE <b>B</b>	DWG. NO. <b>FE-00001</b>
			Q.A.				
			COMMENTS:			REV <b>B</b>	
NEXT ASSY	USED ON						
APPLICATION		DO NOT SCALE DRAWING				WEIGHT:	SHEET 3 OF 3

4

3

2

1



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	Redraw	5/19/2008	narosenberg
D2	B	Items renumbered, drawing reformatted	3/19/2020	CPO

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FE-00002-01	1 3/4" x 1 3/4" x 1/8" 6061 Aluminum Tubing	1
2	FE-00002-02	1 7/16" Dia. 6061 Aluminum Solid Rod	1
3	FE-00002-03	1 3/4" x 1 3/4" x 1/8" 6061 Aluminum Tubing	1
4	FE-00002-04	1" Schedule 40 Aluminum Tube	1
5	FE-00002-05	3" x 1/4" 6061 Aluminum Bar	1
6	FE-00002-06	1 7/16" Dia. 6061 Aluminum Solid Rod	1
7	FE-00002-07	1 1/4 Schedule 40 Aluminum Tube	2

Before Item 7  
is attached

LEFT CORNER SUPPORT

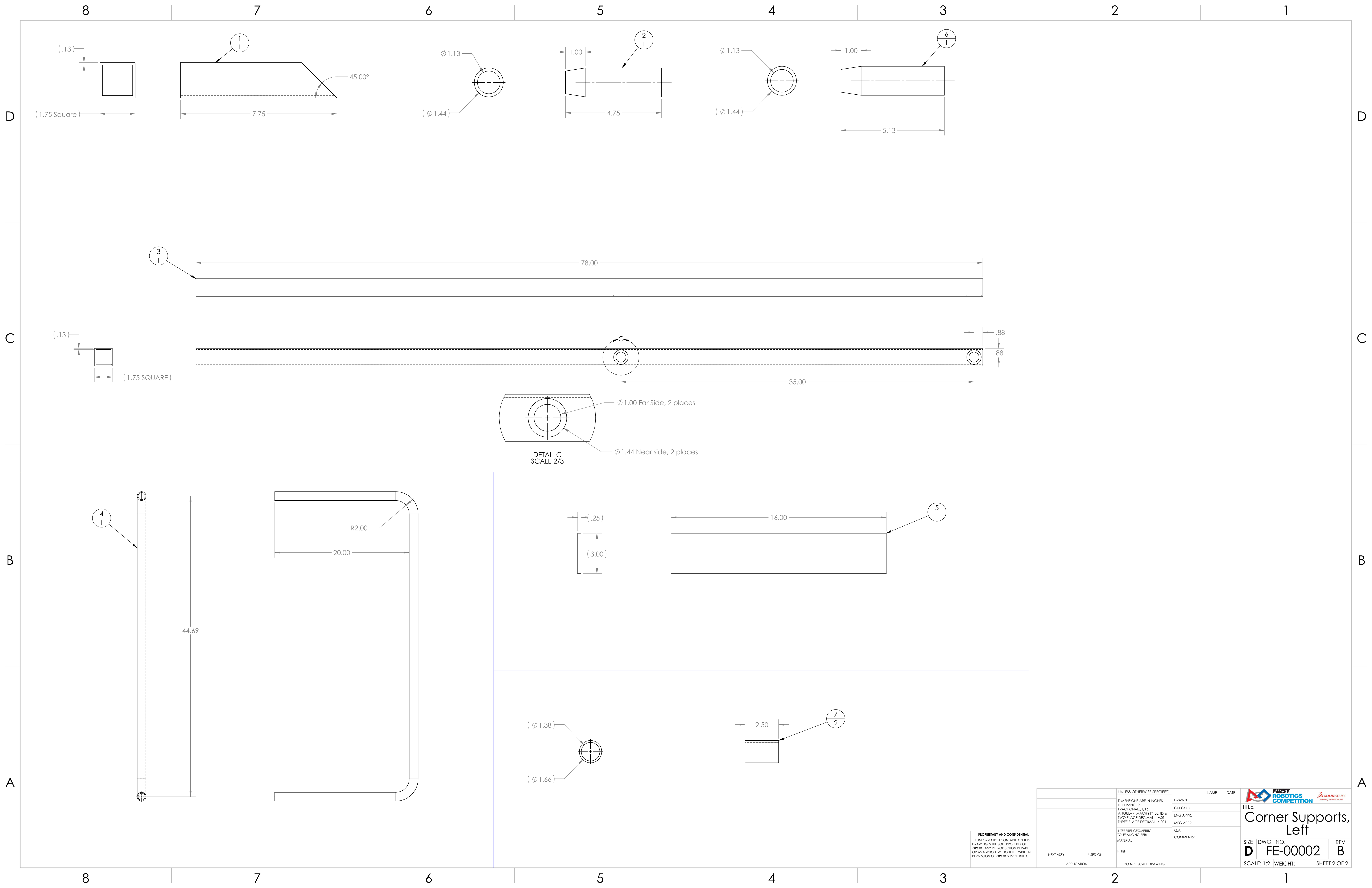
RIGHT CORNER SUPPORT  
(MIRROR IMAGE OF LEFT)

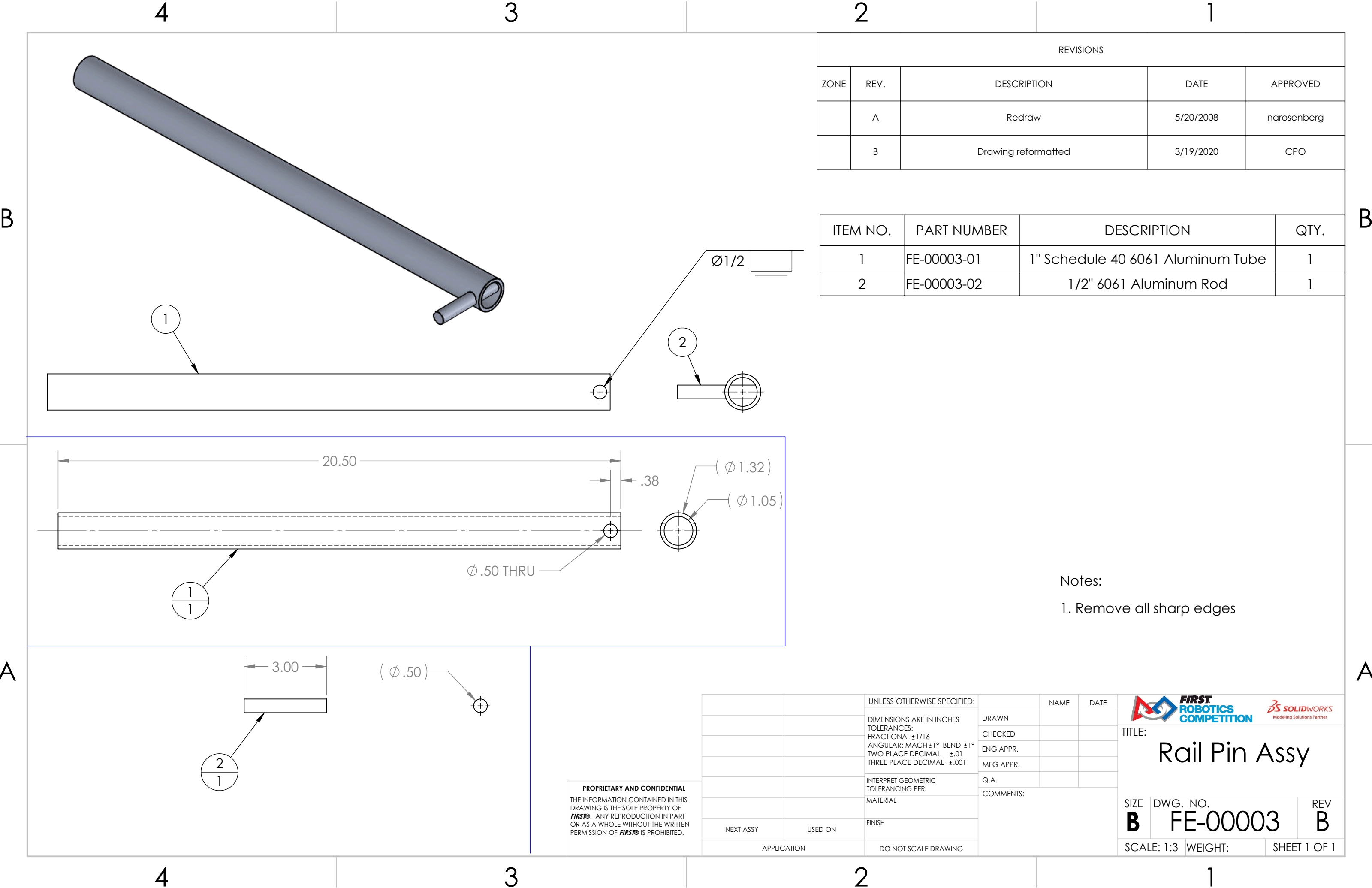
- Notes:
- Left corner support shown, right is same components, mirror image assy
  - Remove all sharp edges

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DIMENSIONS ARE IN INCHES	DRAWN		
TOLERANCES:	CHECKED		
FRACTIONAL: ±1/16	ENG APPR.		
ANGULAR: MACH ±1° BEND ±1°	MFG APPR.		
TWO PLACE DECIMAL ±.01	Q.A.		
THREE PLACE DECIMAL ±.001	COMMENTS:		
INTERPRET GEOMETRIC TOLERANCING PER:			
MATERIAL			
FINISH			
NEXT ASSY	USED ON		
APPLICATION	DO NOT SCALE DRAWING		

TITLE:		SIZE	DWG. NO.	REV
Corner Supports, Left		D	FE-00002	B
SCALE: 1:4		WEIGHT:	SHEET 1 OF 2	







D

C

B

A

D

C

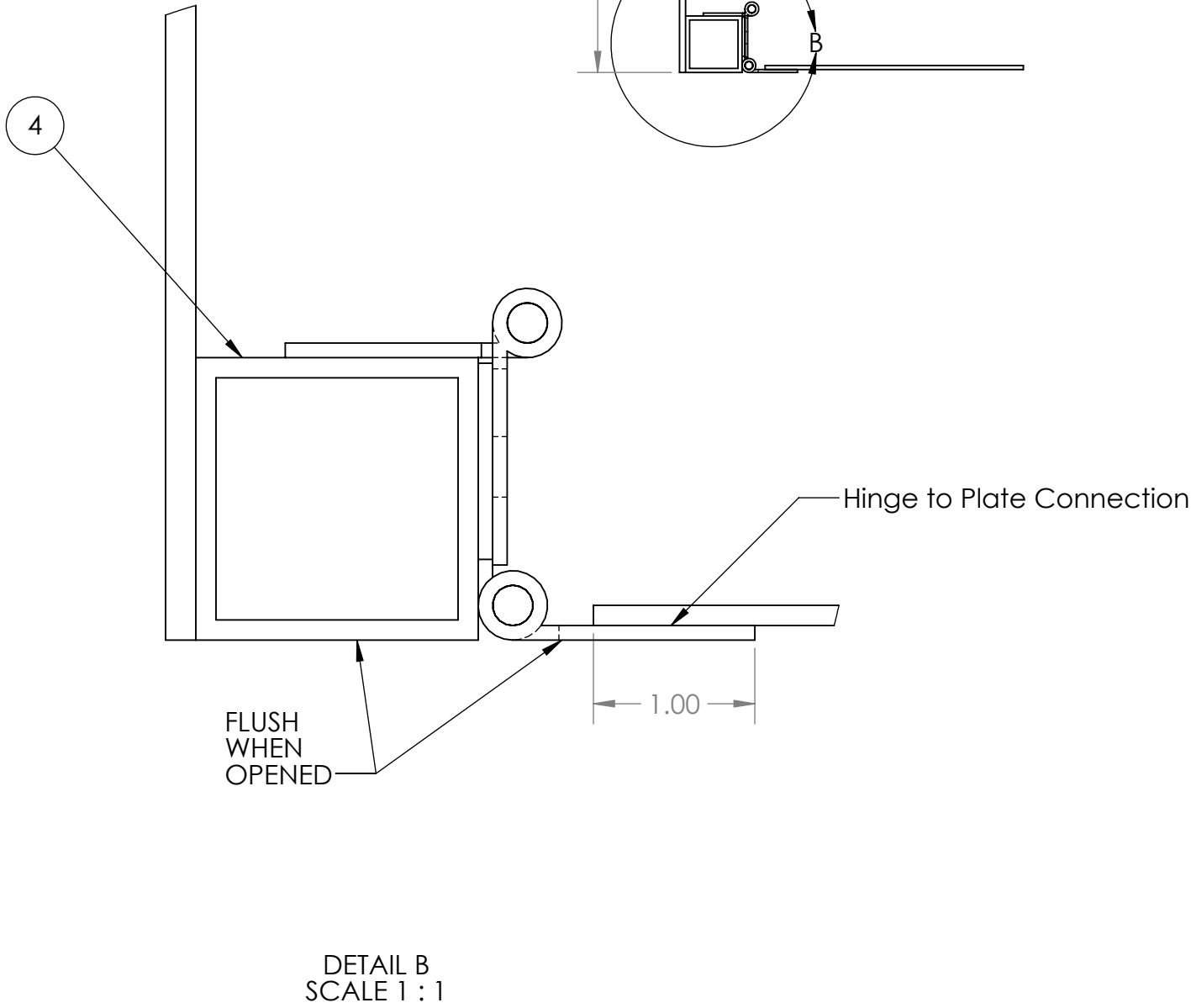
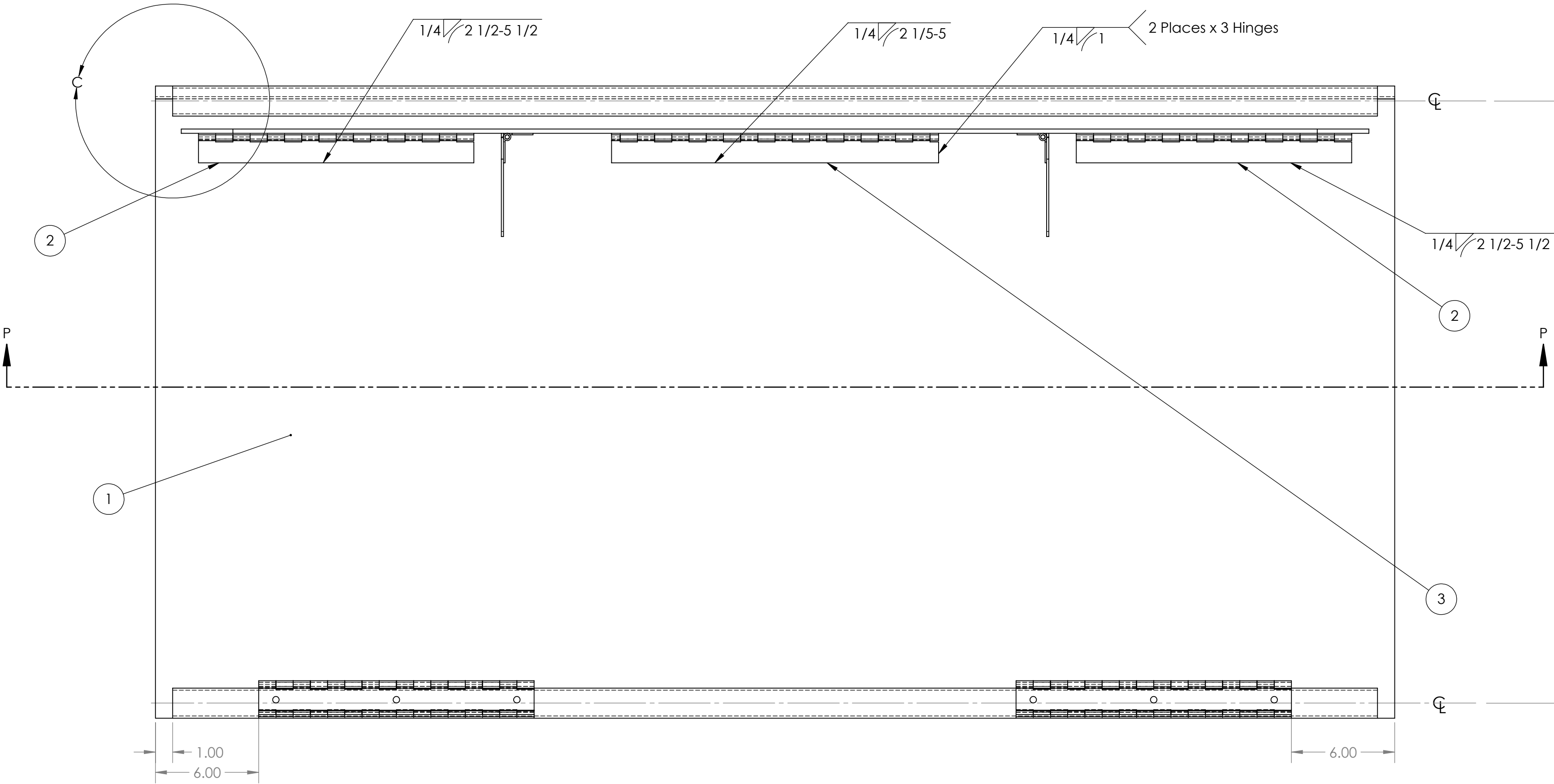
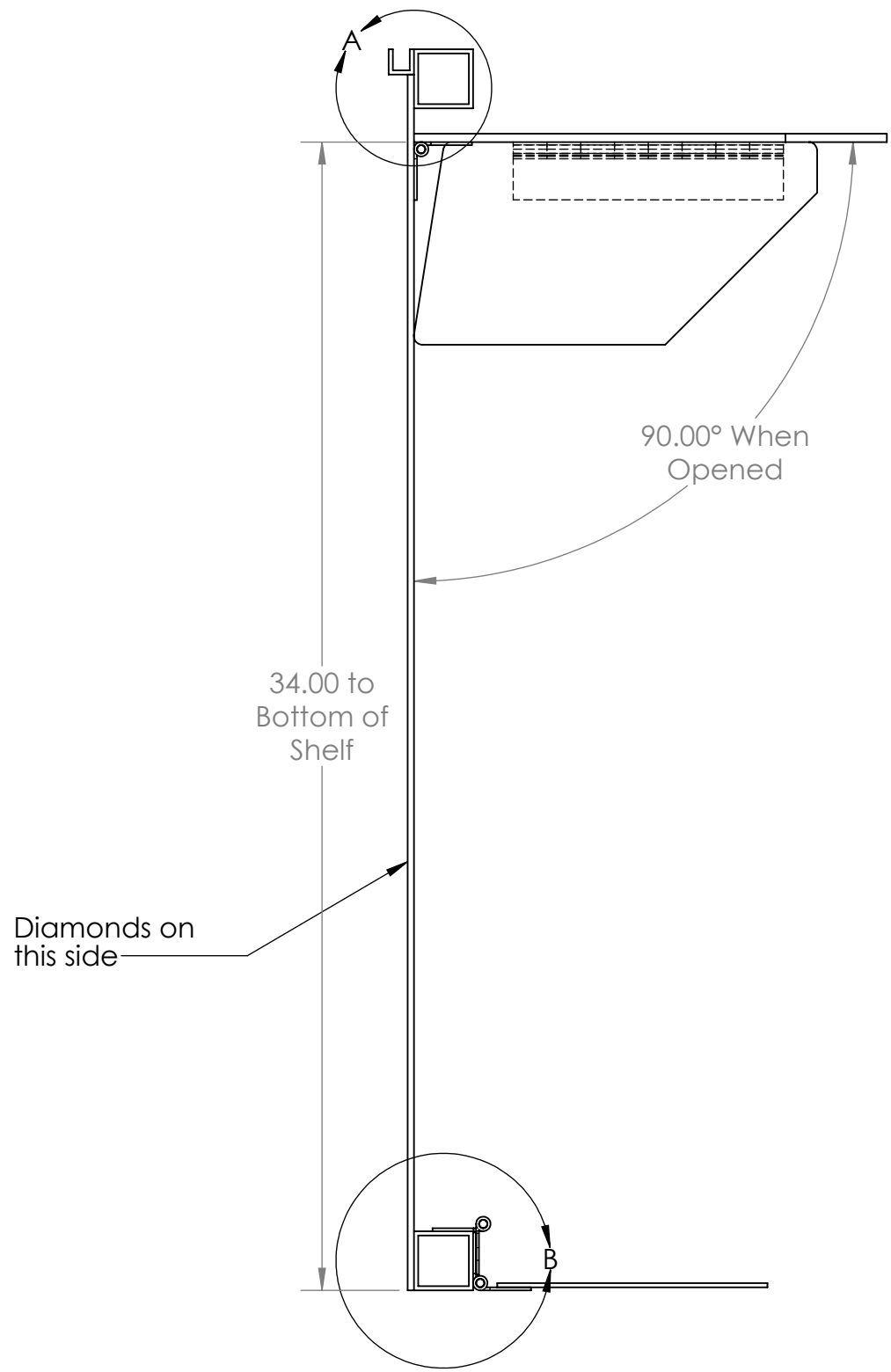
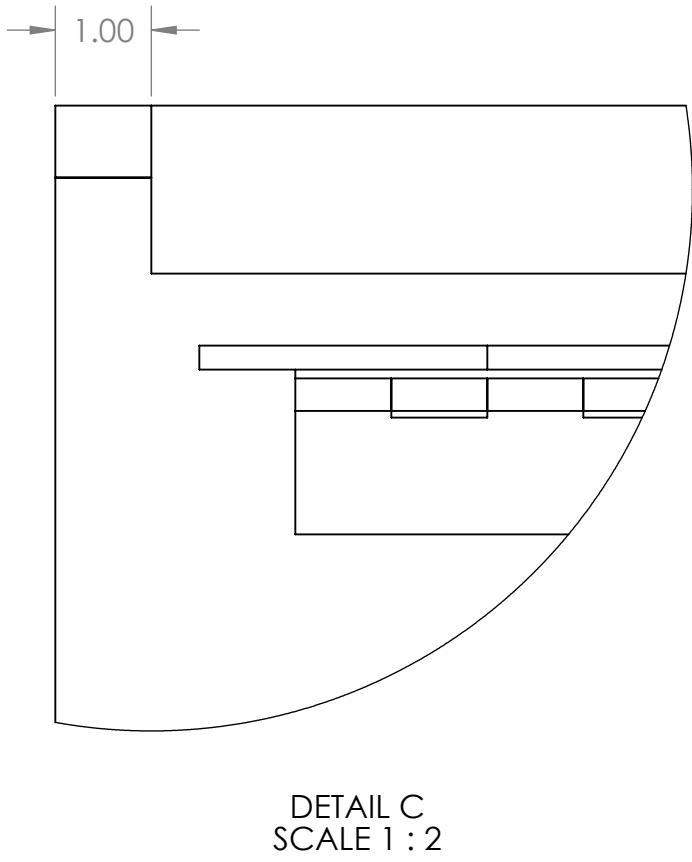
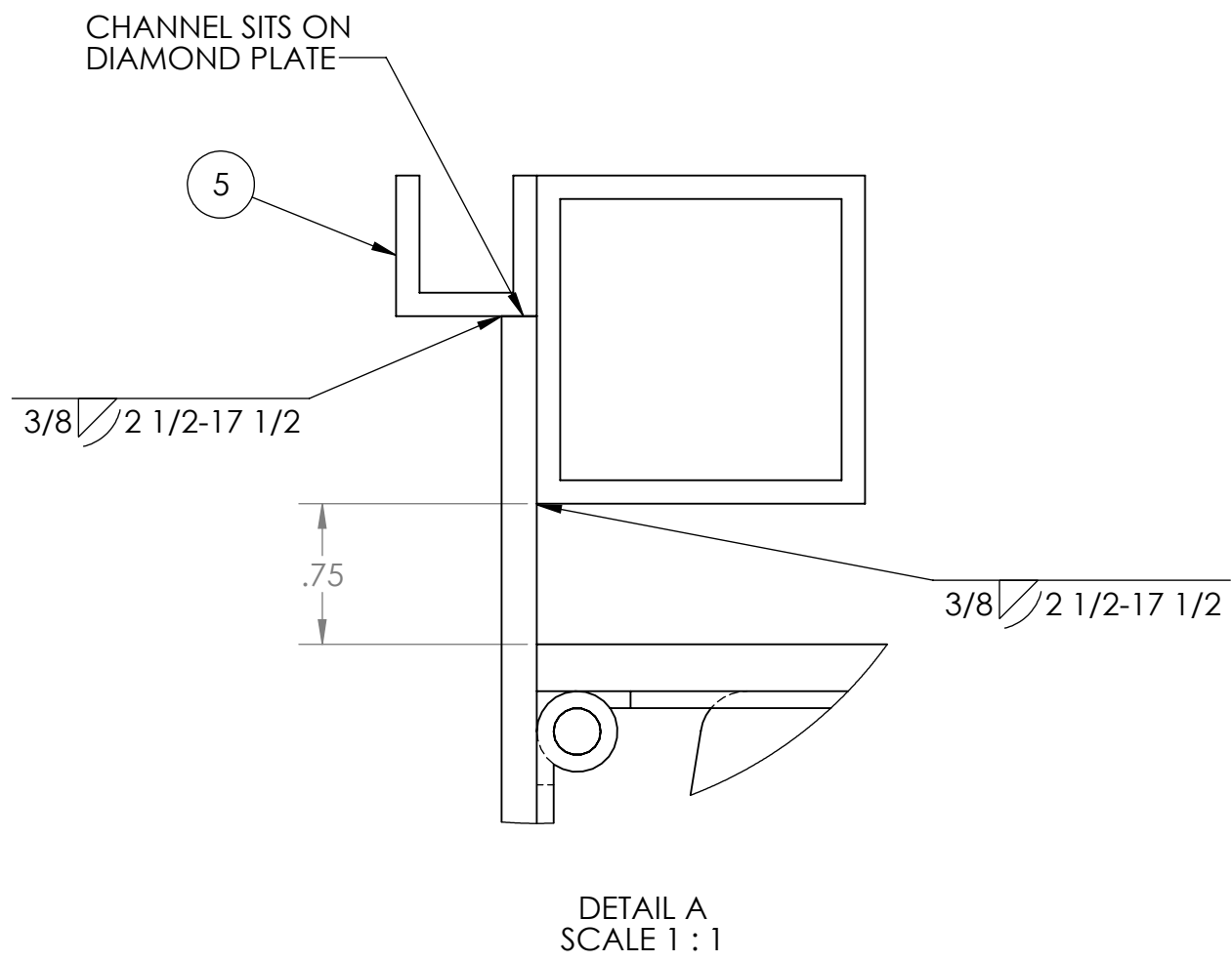
B

A

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	Redraw	5/20/2008	narosenberg
2-D7	2	Weld size changed for consistency, drawing reformatted.	3/19/2020	CPO

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FE-00004-01	3/16 Aluminum Diamond Plate	1
2	FE-00004-02	Hinge, Aluminum 3" x .09", 1/4" Pin	2
3	FE-00004-03	Hinge, Aluminum 3" x .09", 1/4" Pin	1
4	FE-00004-04	1 3/4" x 1 3/4" x 1/8" Square 6061 Aluminum Tubing	2
5	FE-00004-05	3/4" x 3/4" x 1/8" 6061 Aluminum 'U' Channel	1
6	FE-00004-06	1/4" 6061 Aluminum Plate	1
7	FE-00004-07	Hinge, Aluminum 3" x .09", 1/4" Pin (2 Pieces Welded)	2
8	FE-00004-08	Hinge, Aluminum 3" x .09", 1/4" Pin	2
9	FE-00004-09	1/8" 6061 Aluminum Plate	2
10	FE-00004-10	1/8" 6061 Aluminum Plate	2

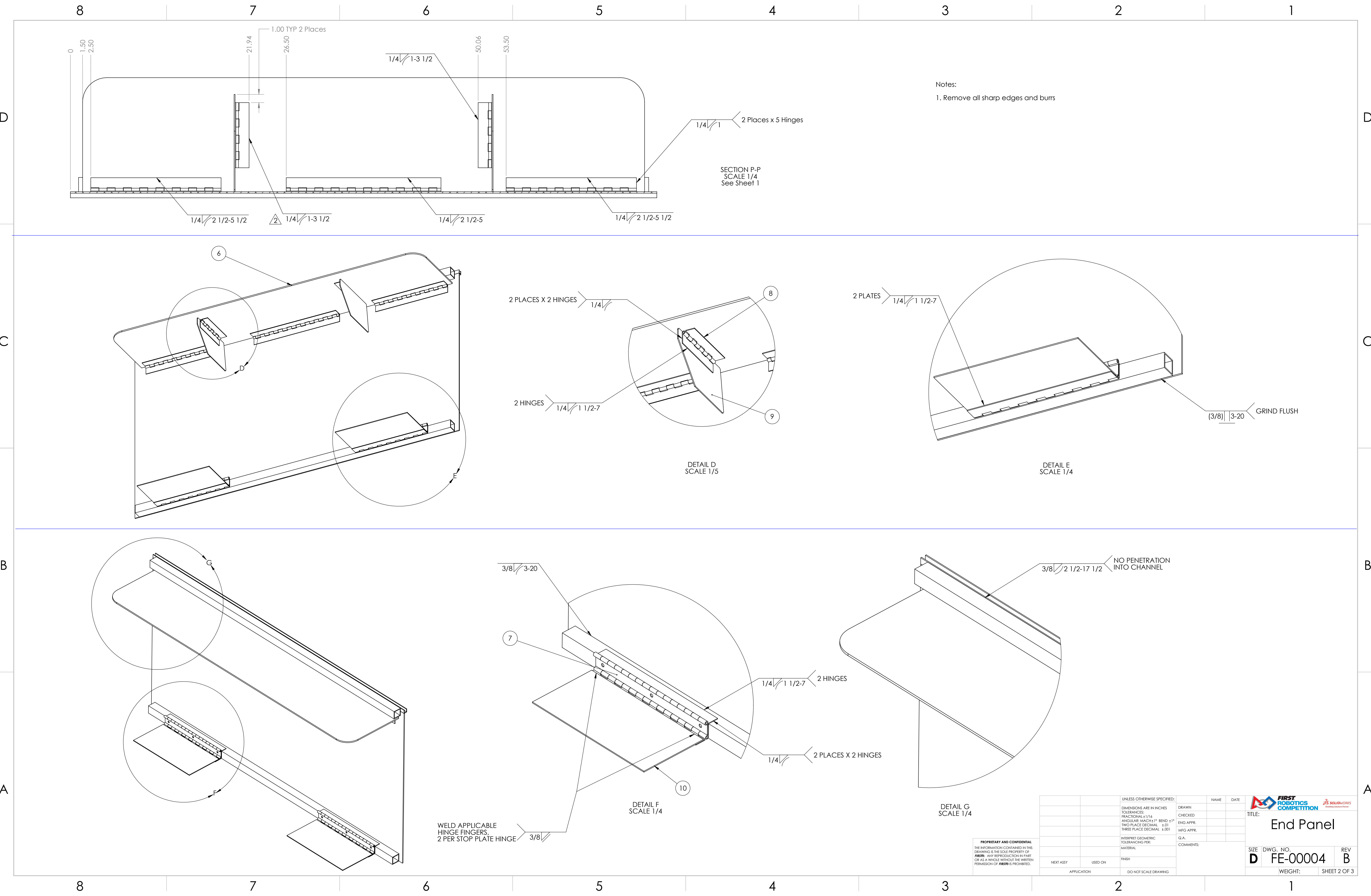
Notes:  
1. Remove all sharp edges and burrs



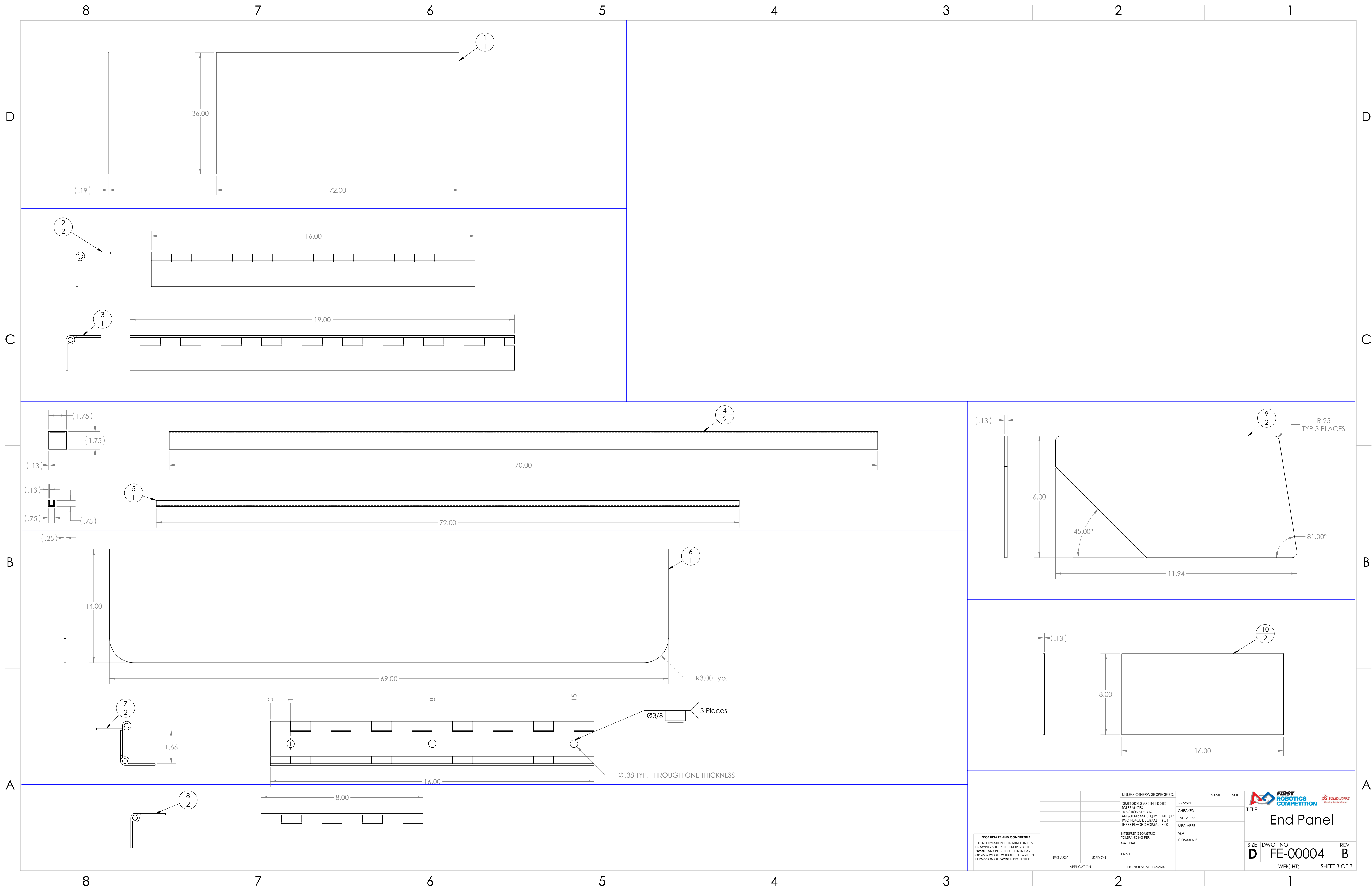
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		INTERPRET GEOMETRIC TOLERANCING PER: MATERIAL	Q.A. COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

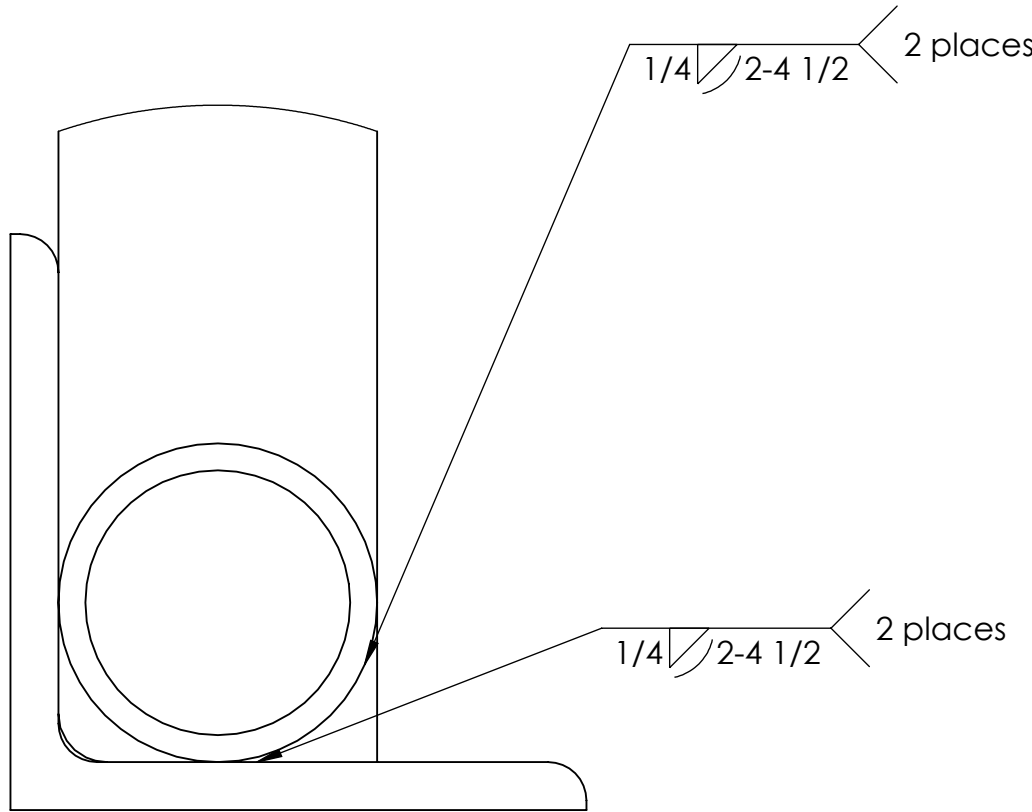
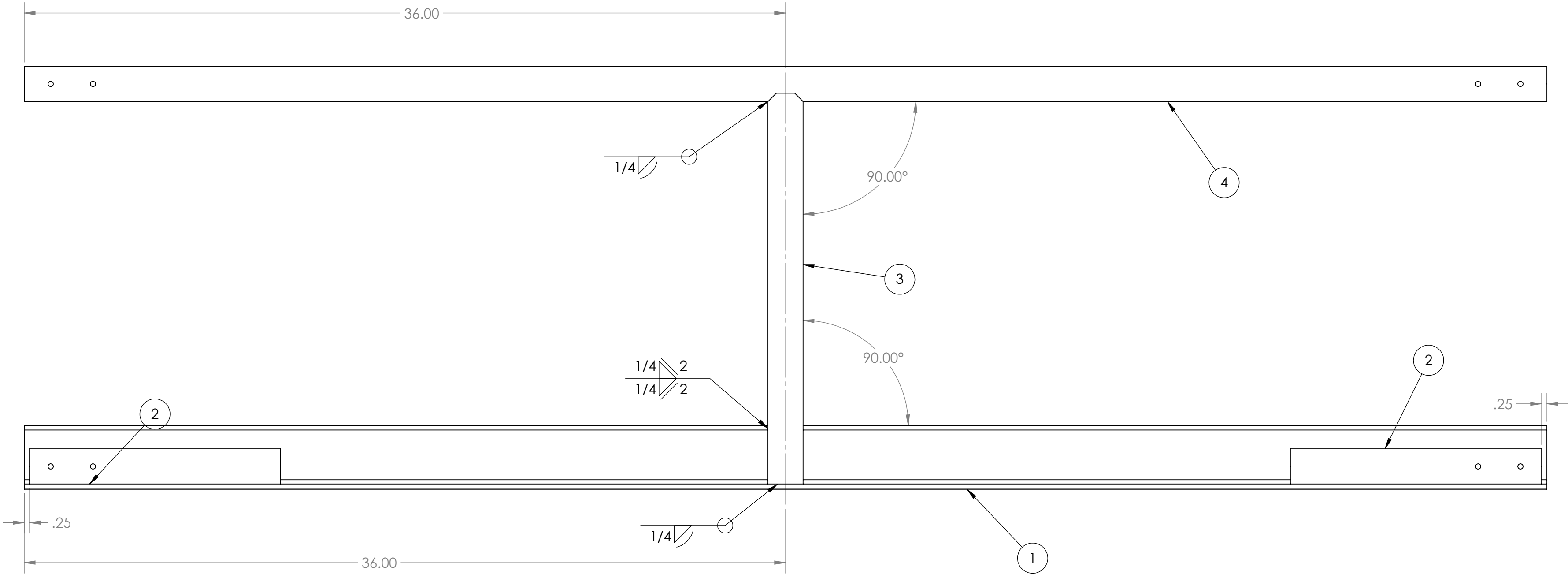
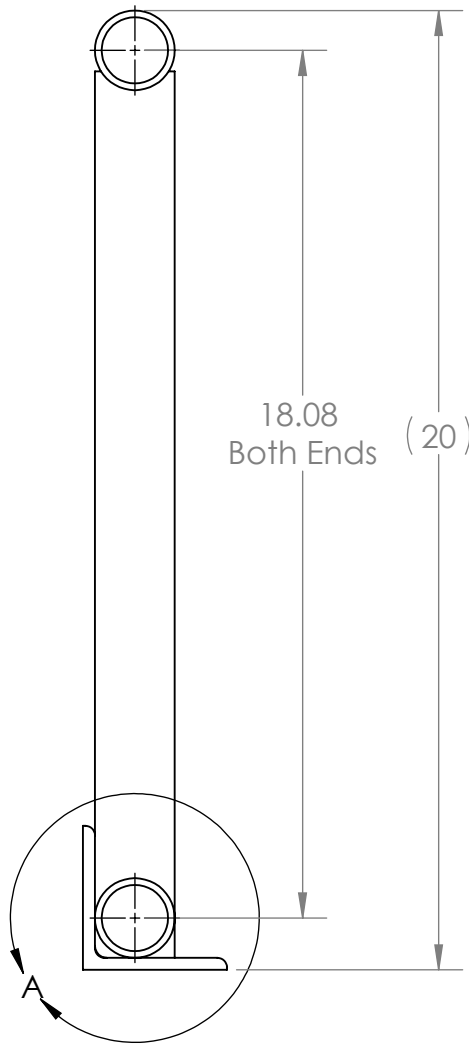
TITLE: <b>End Panel</b>		
SIZE <b>D</b>	DWG. NO. <b>FE-00004</b>	REV <b>B</b>
SCALE: 1:5	WEIGHT:	SHEET 1 OF 3



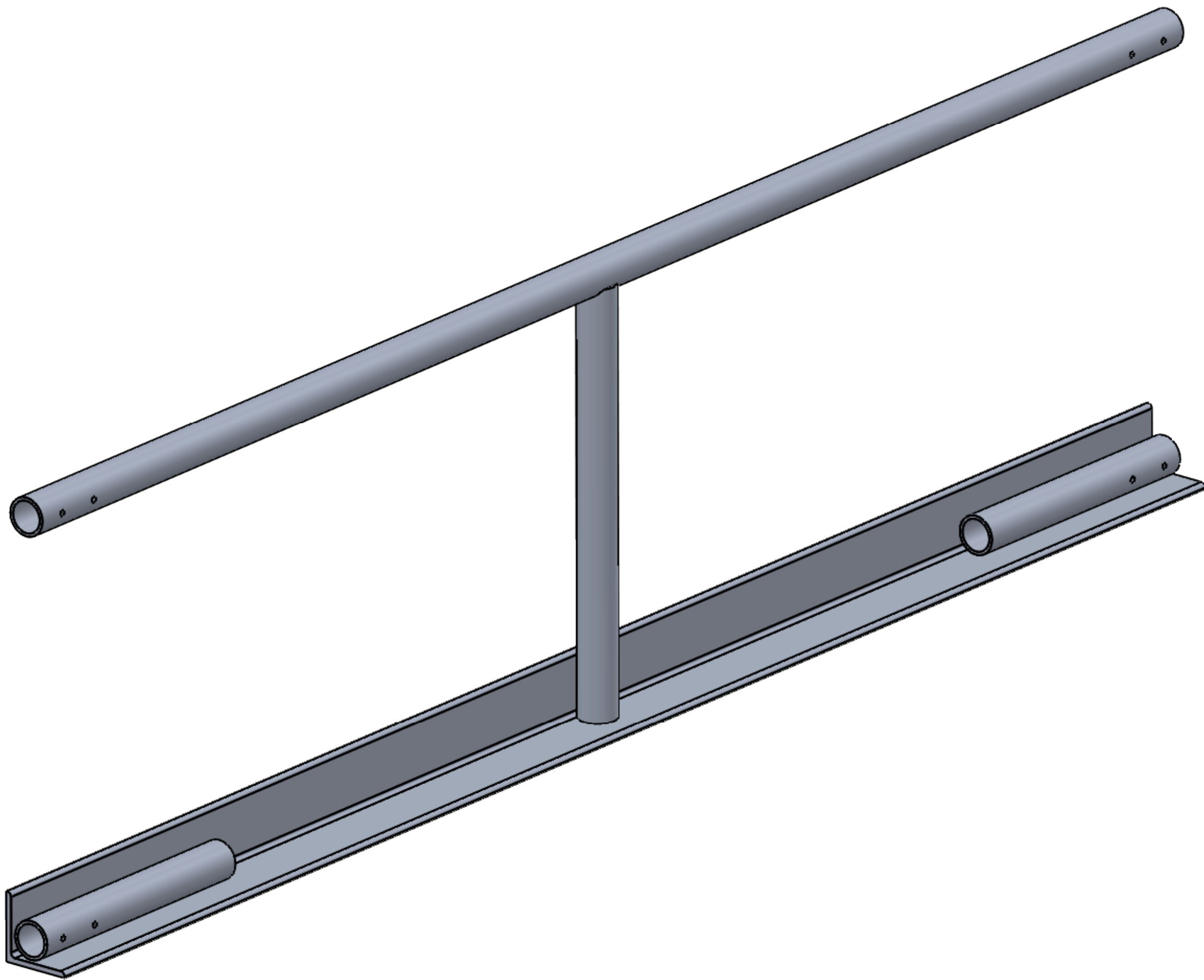




REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	Redrawn	5/28/2008	narosenberg
	B	Drawing reformatted	3/19/2020	CPO





DETAIL A  
SCALE 1 : 1

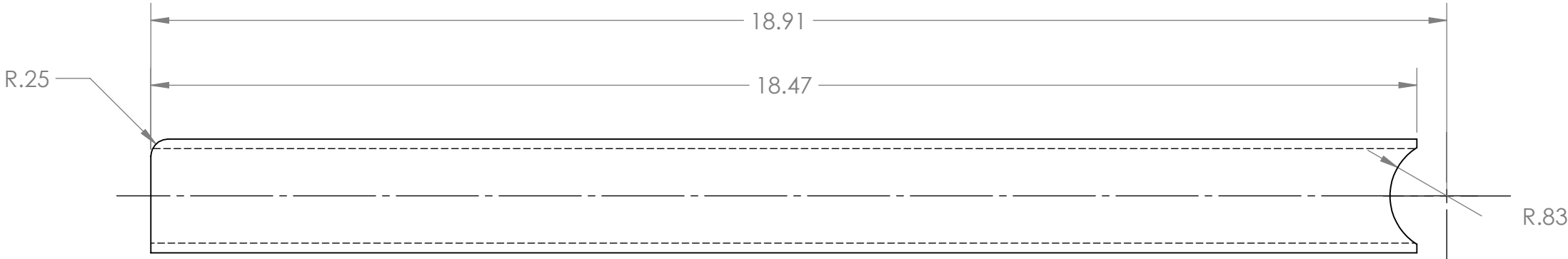
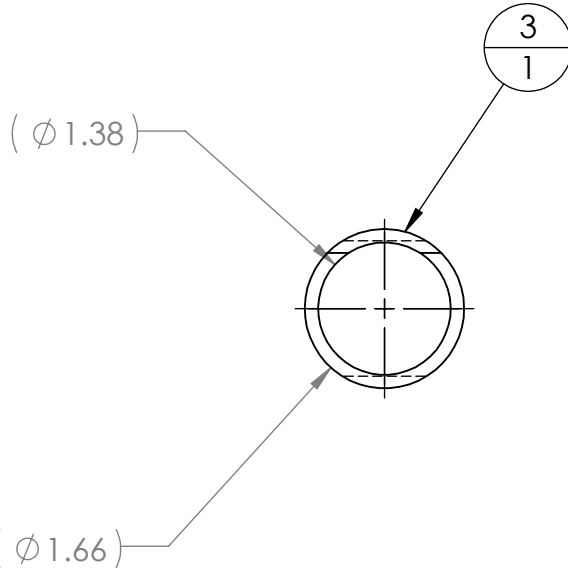
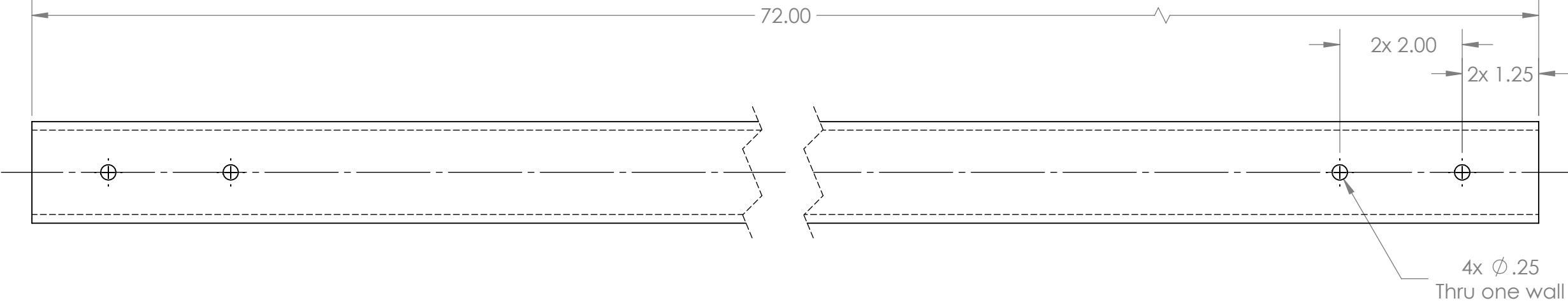
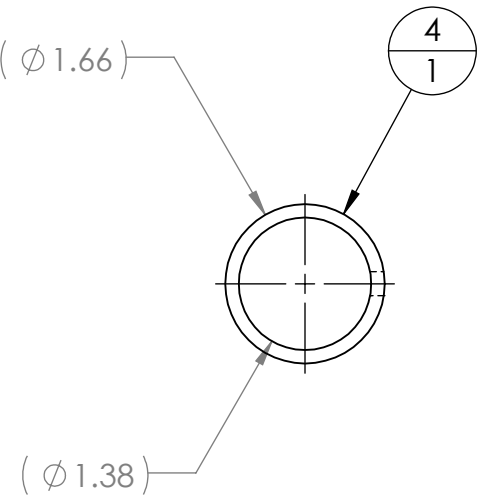
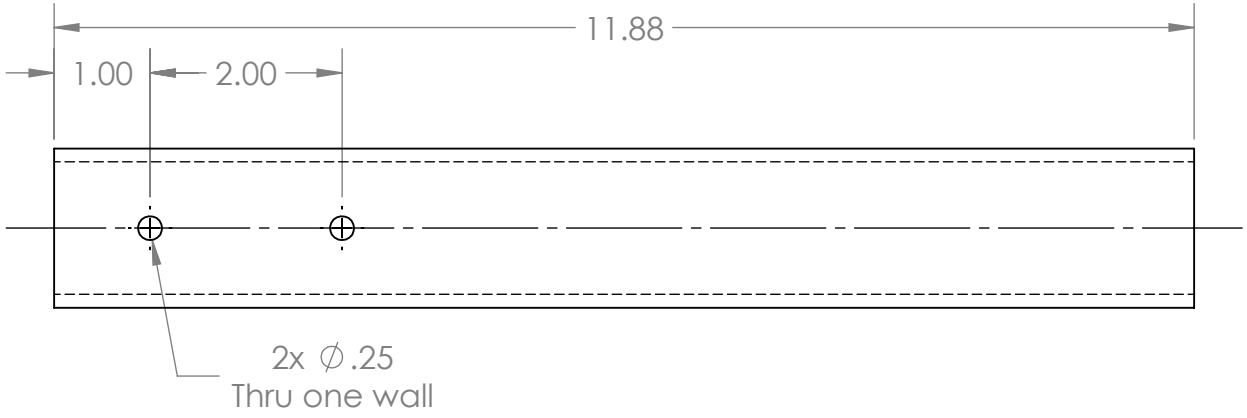
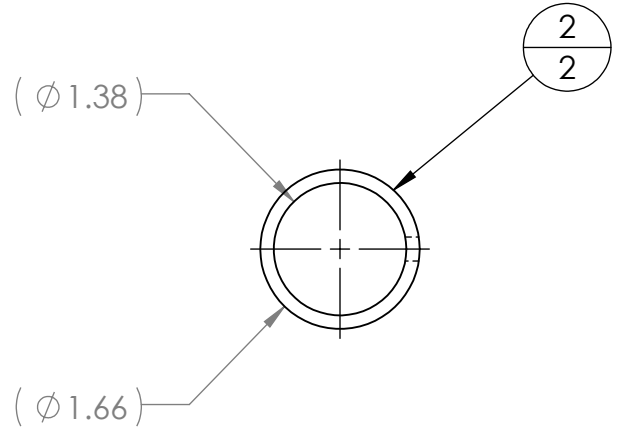
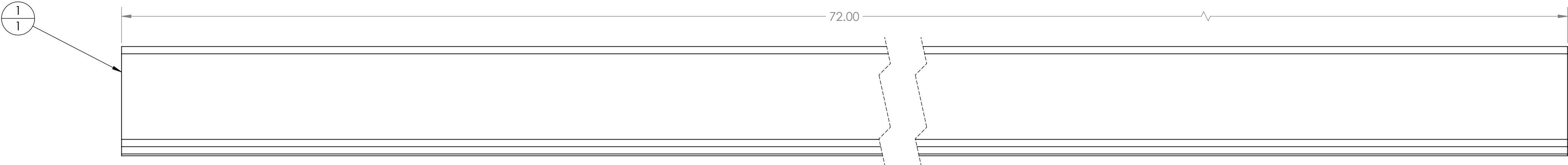
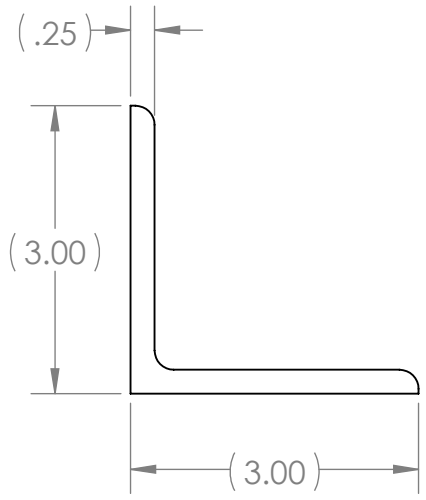
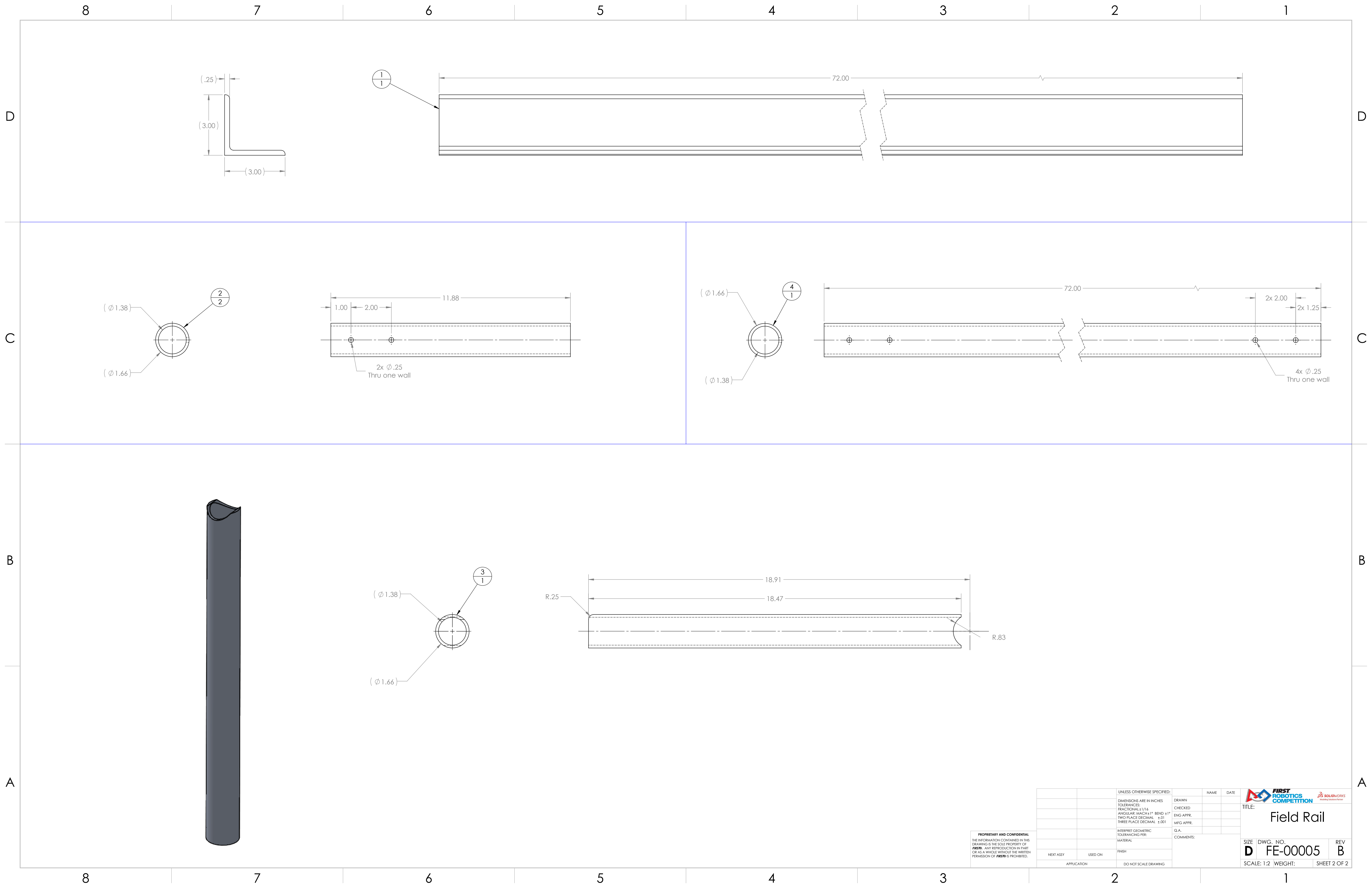


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FE-00005-01	3" x 3" x 1/4" 6061-T6 Aluminum Angle	1
2	FE-00005-02	1 1/4" Schedule 40 6061-T6 Aluminum Pipe	2
3	FE-00005-03	1 1/4" Schedule 40 6061-T6 Aluminum Pipe	1
4	FE-00005-04	1 1/4" Schedule 40 6061-T6 Aluminum Pipe	1

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	CHECKED		
	ENG APPR.		
	MFG APPR.		
INTERPRET GEOMETRIC TOLERANCING PER:		Q.A. COMMENTS:	
MATERIAL			
FINISH			
NEXT ASSY	USED ON		
APPLICATION		DO NOT SCALE DRAWING	

 		TITLE: <b>Field Rail</b>	
SIZE <b>D</b>	DWG. NO. <b>FE-00005</b>	REV <b>B</b>	
SCALE: 1:4 WEIGHT:		SHEET 1 OF 2	

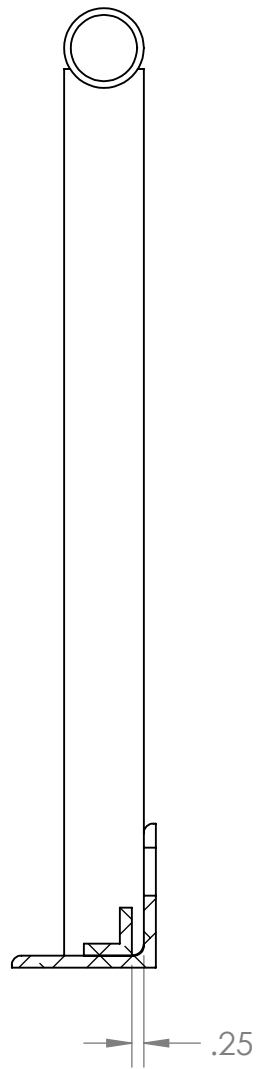


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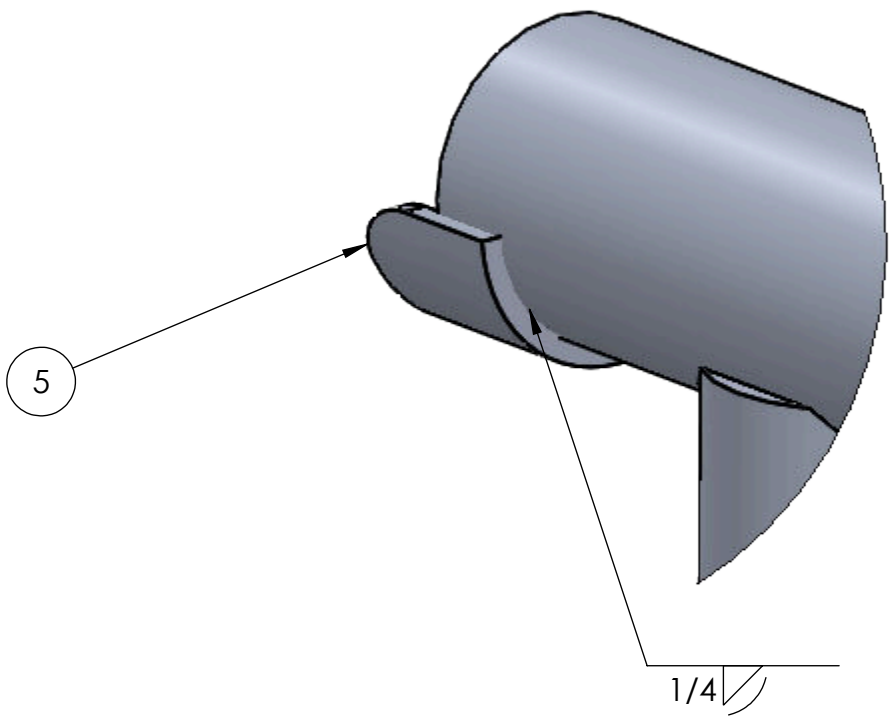
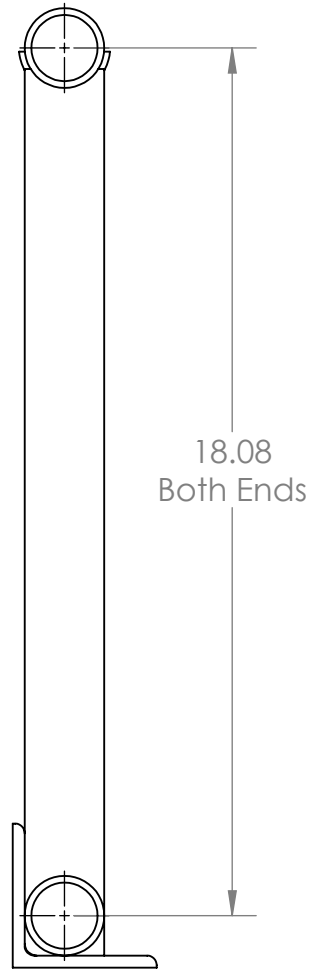
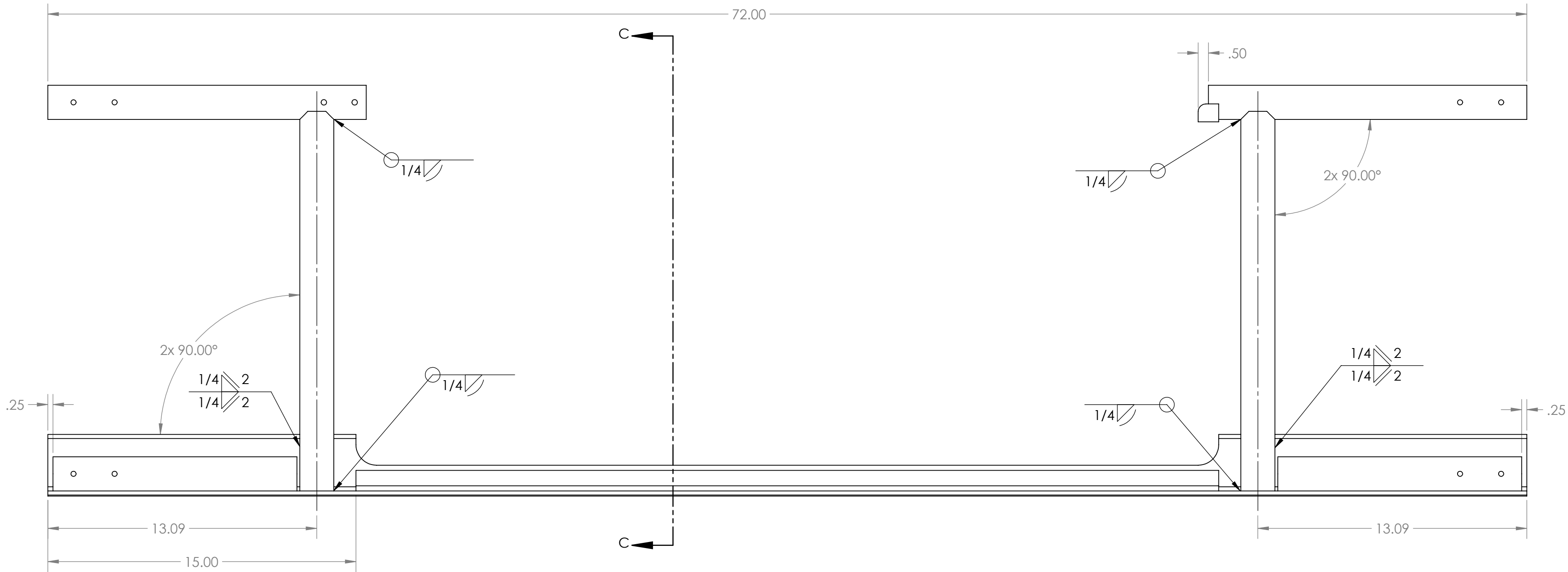
UNLESS OTHERWISE SPECIFIED:		DRAWN	NAME	DATE
DIMENSIONS ARE IN INCHES		CHECKED		
TOLERANCES:		ENG APPR.		
FRACTIONAL: ±1/16		MFG APPR.		
ANGULAR: MACH ±1° BEND ±1°				
TWO PLACE DECIMAL ±.01				
THREE PLACE DECIMAL ±.001				
INTERPRET GEOMETRIC TOLERANCING PER:		Q.A. COMMENTS:		
MATERIAL				
FINISH				
NEXT ASSY	USED ON			
APPLICATION		DO NOT SCALE DRAWING		

 		TITLE:	Field Rail	
SIZE	DWG. NO.	REV		
D	FE-00005	B		
SCALE: 1:2	WEIGHT:	SHEET 2 OF 2		

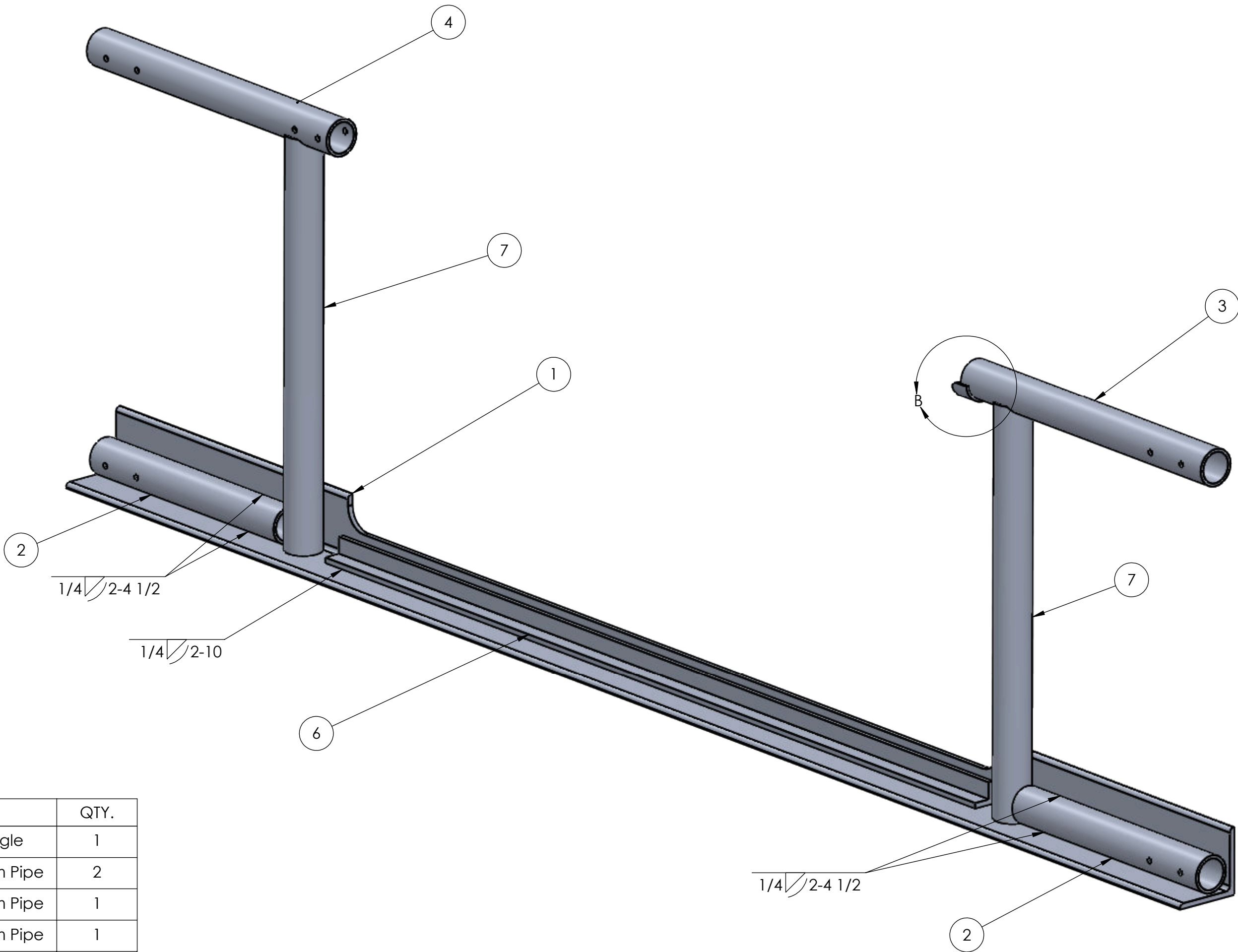
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	Redrawn	8/7/2008	narosenberg
A7, 2-B6, 3-C6	B	Parts renumbered, drawing reformatted, hole diameter updated, hole changed to thru one wall for consistency.	3/20/2020	CPO



SECTION C-C





DETAIL B  
SCALE 1 : 1



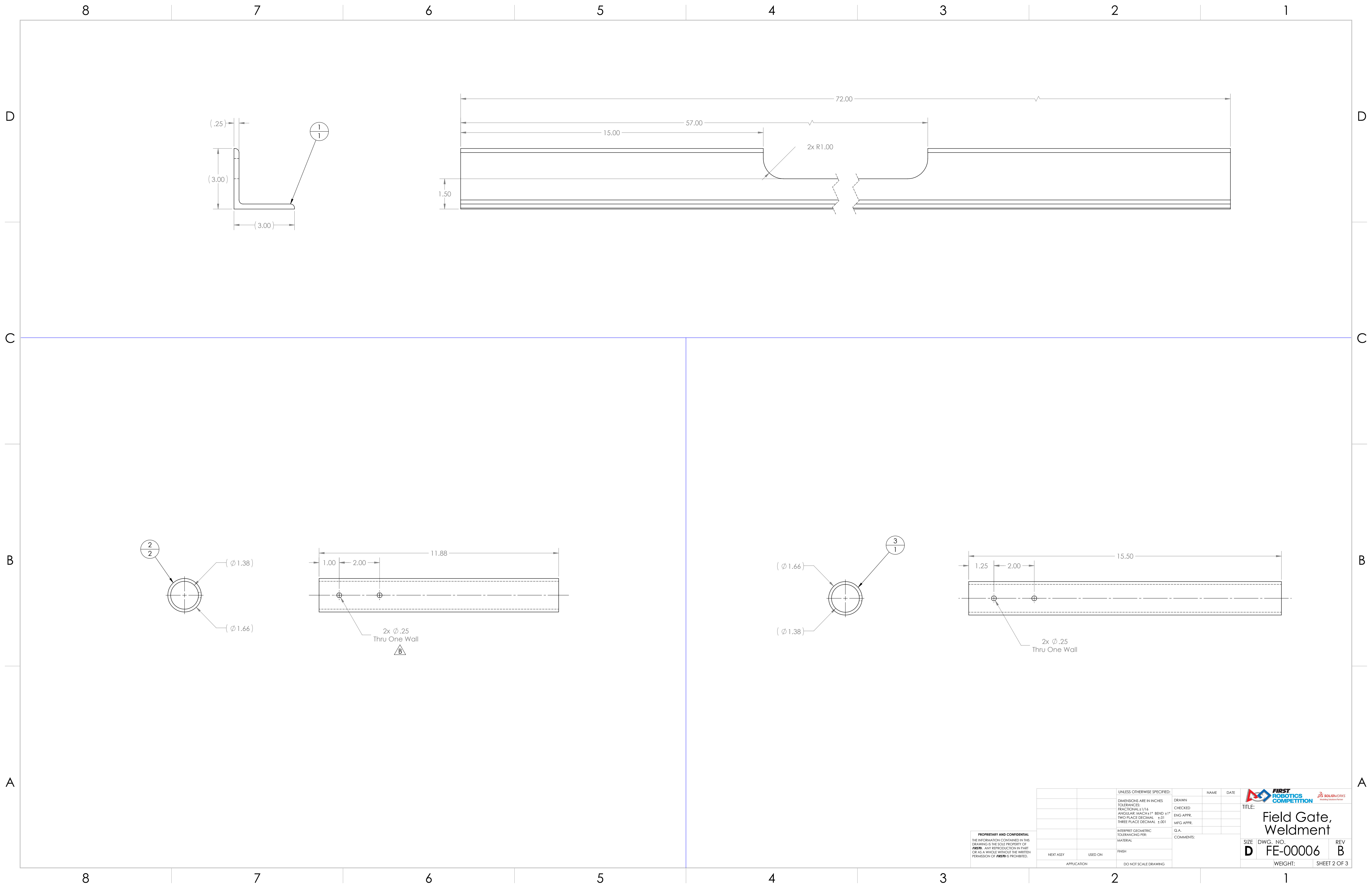
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FE-00006-01	3" x 3" x 1/4" 6061-T6 Aluminum Angle	1
2	FE-00006-02	1-1/4" Schedule 40 6061-T6 Aluminum Pipe	2
3	FE-00006-03	1-1/4" Schedule 40 6061-T6 Aluminum Pipe	1
4	FE-00006-04	1-1/4" Schedule 40 6061-T6 Aluminum Pipe	1
5	FE-00006-05	1-1/2" Schedule 40 6061-T6 Aluminum Pipe	1
6	FE-00006-06	1" x 1" x 1/4" 6061-T6 Aluminum Angle	1
7	FE-00006-07	1-1/4" Schedule 40 6061-T6 Aluminum Pipe	2

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DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL: ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.001	DRAWN		
	CHECKED		
	ENG APPR.		
	MFG APPR.		
INTERPRET GEOMETRIC TOLERANCING PER:		Q.A. COMMENTS:	
MATERIAL			
FINISH			
NEXT ASSY	USED ON		
APPLICATION		DO NOT SCALE DRAWING	



 		TITLE: <b>Field Gate, Weldment</b>	
SIZE <b>D</b>	DWG. NO. <b>FE-00006</b>	REV <b>B</b>	
SCALE: 1:4 WEIGHT:		SHEET 1 OF 3	



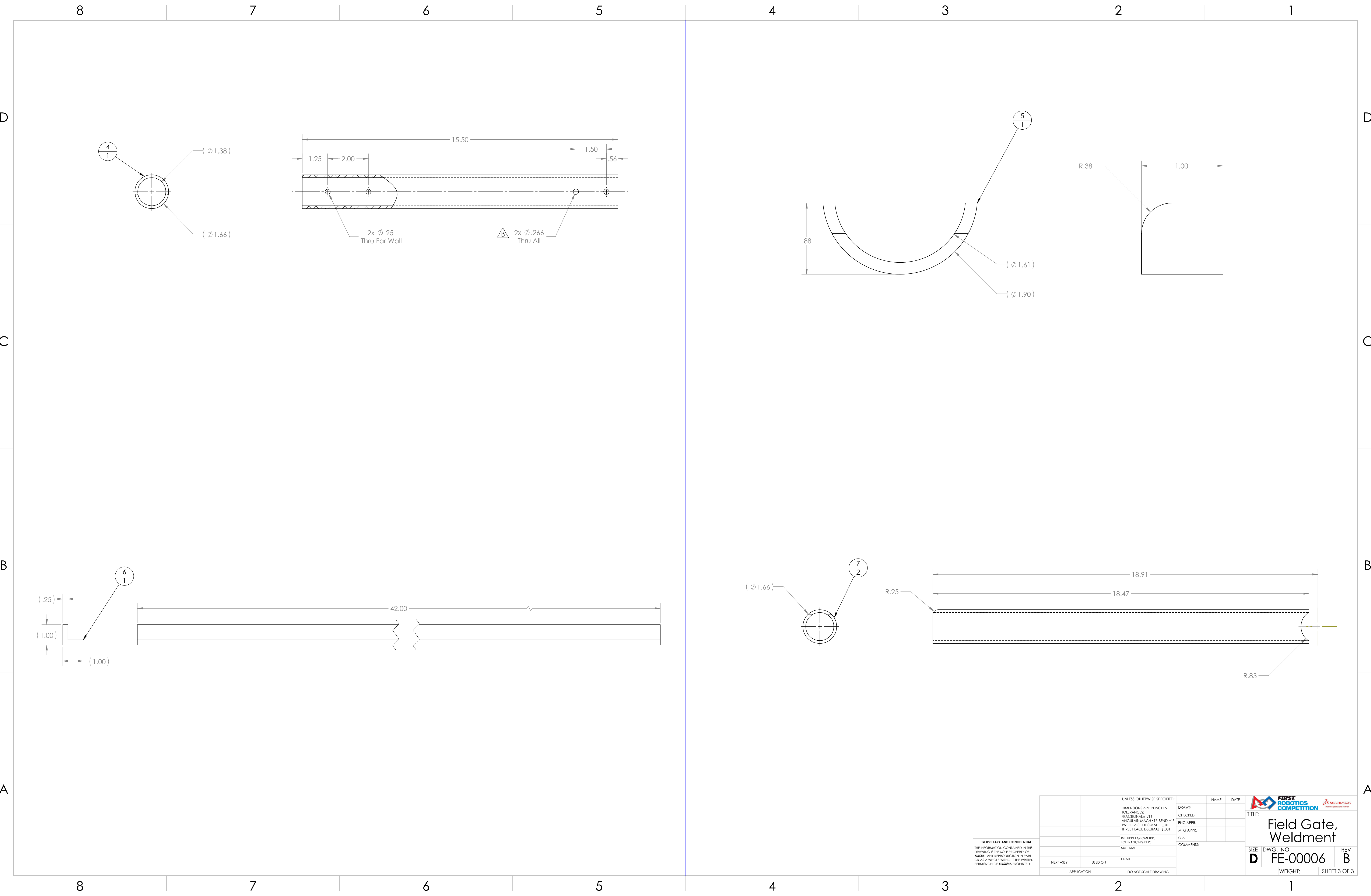


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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN		
		TOLERANCES:	CHECKED		
		FRACTIONAL: ±1/16	ENG APPR.		
		ANGULAR: MACH ±1° BEND ±1°	MFG APPR.		
		TWO PLACE DECIMAL ±.01			
		THREE PLACE DECIMAL ±.001			
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL			
		FINISH			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

			
TITLE: Field Gate, Weldment			
SIZE	DWG. NO.	REV	
D	FE-00006	B	
WEIGHT:		SHEET 2 OF 3	

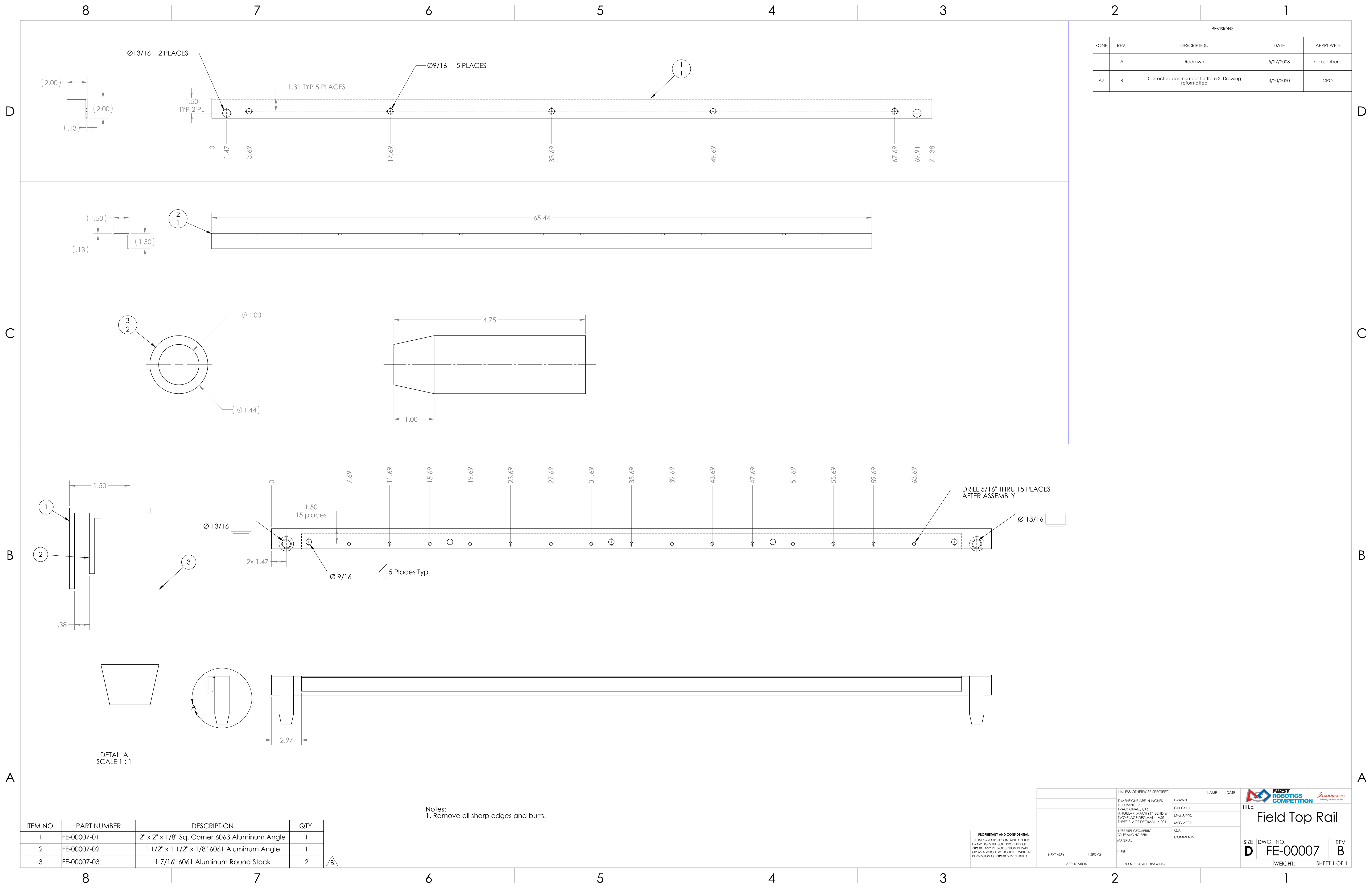




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		UNLESS OTHERWISE SPECIFIED:			NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN			
		TOLERANCES:	CHECKED			
		FRACTIONAL: $\pm 1/16$	ENG APPR.			
		ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$	MFG APPR.			
		TWO PLACE DECIMAL $\pm .01$	Q.A.			
		THREE PLACE DECIMAL $\pm .001$	COMMENTS:			
		INTERPRET GEOMETRIC TOLERANCING PER:				
		MATERIAL				
		FINISH				
NEXT ASSY	USED ON					
APPLICATION		DO NOT SCALE DRAWING				



		FIRST ROBOTICS COMPETITION		SOLIDWORKS Modeling Solutions Partner	
		TITLE:		Field Gate, Weldment	
SIZE	DWG. NO.	REV			
D	FE-00006	B			
WEIGHT:		SHEET 3 OF 3			

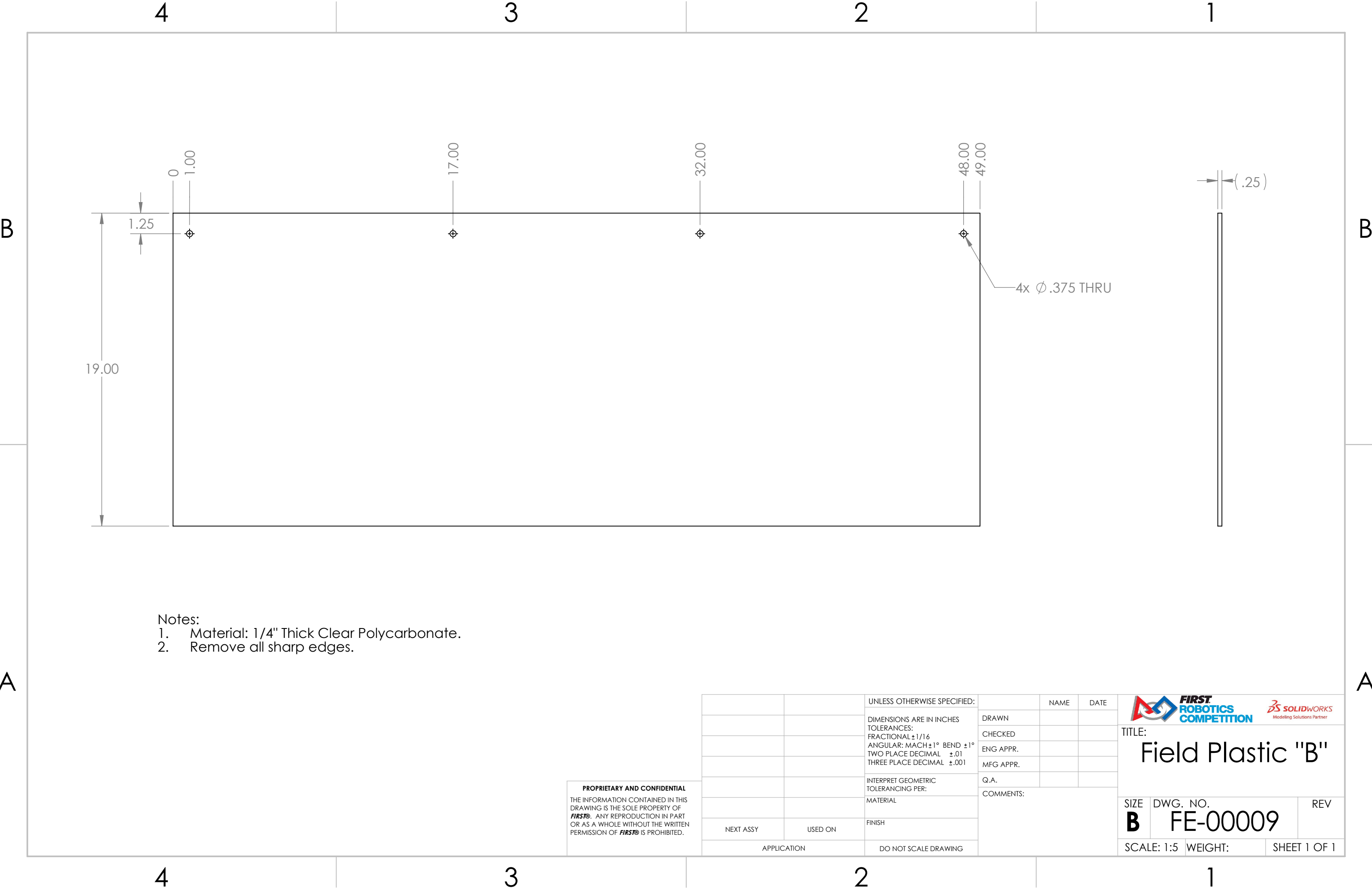




- Notes:
1. Material: 1/4" Thick Clear Polycarbonate.
  2. Remove all sharp edges.



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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	<div></div>		
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .001$	DRAWN			TITLE:  Field Plastic "A"		
			CHECKED					
			ENG APPR.					
			MFG APPR.					
			Q.A.					
		INTERPRET GEOMETRIC TOLERANCING PER:	COMMENTS:			SIZE DWG. NO. REV  B FE-00008		
		MATERIAL						
NEXT ASSY	USED ON	FINISH						
APPLICATION		DO NOT SCALE DRAWING	SCALE: 1:4 WEIGHT: SHEET 1 OF 1					

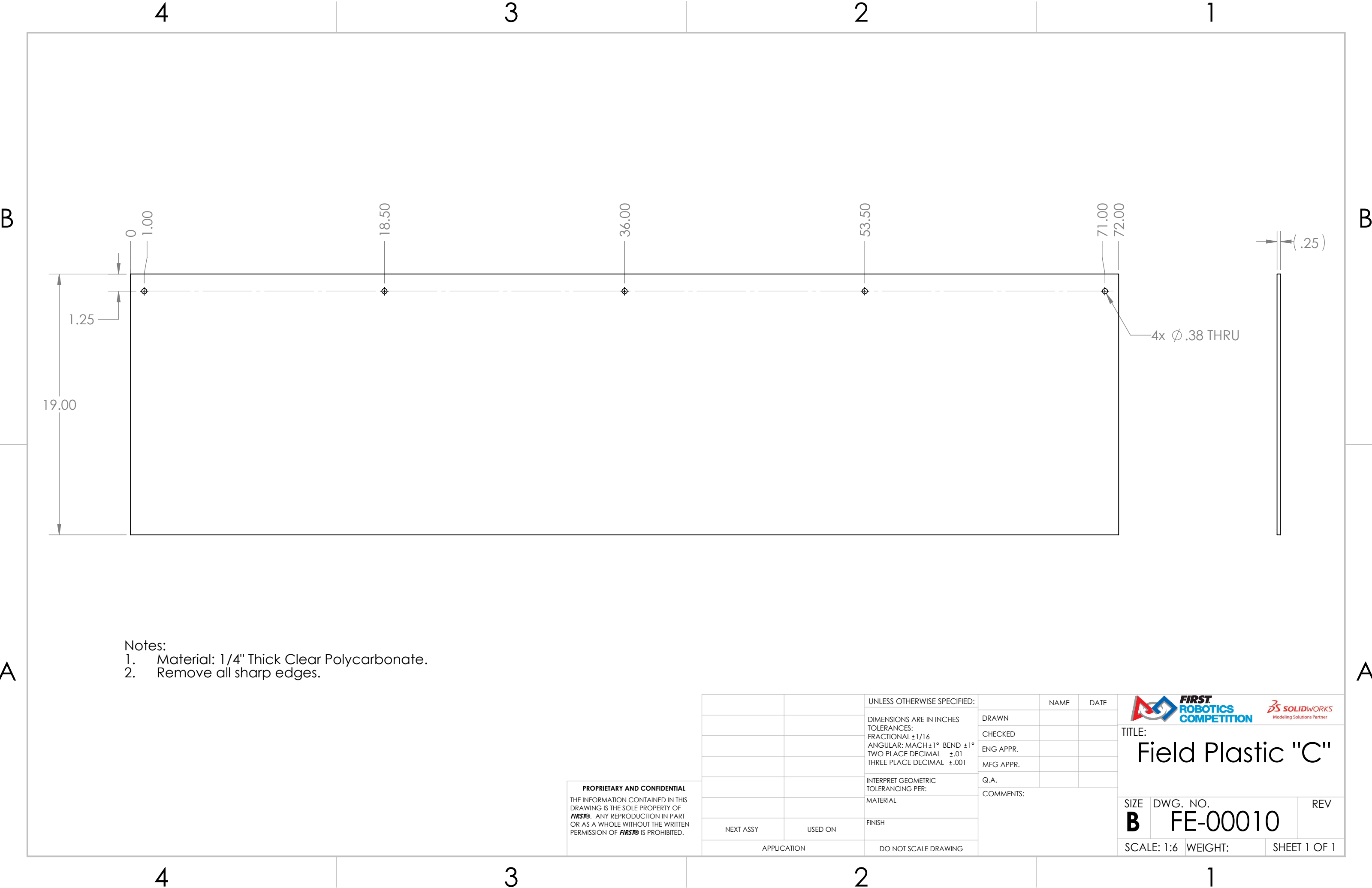


- Notes:
- 1. Material: 1/4" Thick Clear Polycarbonate.
  - 2. Remove all sharp edges.

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		UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.001	DRAWN	NAME	DATE	<div></div> <div>TITLE:  Field Plastic "B"</div>			
			CHECKED						
			ENG APPR.						
			MFG APPR.						
			Q.A.						
		INTERPRET GEOMETRIC TOLERANCING PER:	COMMENTS:			<div>SIZE DWG. NO. REV</div> <div>B FE-00009</div>			
		MATERIAL							
		FINISH							
NEXT ASSY	USED ON								
APPLICATION		DO NOT SCALE DRAWING							
			SCALE: 1:5			WEIGHT:		SHEET 1 OF 1	



APPLICATION DO NOT SCALE DRAWING



Notes:

- 1. Material: 1/4" Thick Clear Polycarbonate.
- 2. Remove all sharp edges.

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	<div></div>		
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .001$	DRAWN			TITLE:  Field Plastic "C"		
			CHECKED					
			ENG APPR.					
			MFG APPR.					
			Q.A.					
		INTERPRET GEOMETRIC TOLERANCING PER:	COMMENTS:			SIZE DWG. NO. REV  B FE-00010		
		MATERIAL						
		FINISH						
NEXT ASSY	USED ON							
APPLICATION		DO NOT SCALE DRAWING	SCALE: 1:6					



4

3

2

1

B

B

A

A

41.50



- 72.00

 $(.375)$ 

Notes:  
1. Material: 3/8" Thick Acrylic Sheet

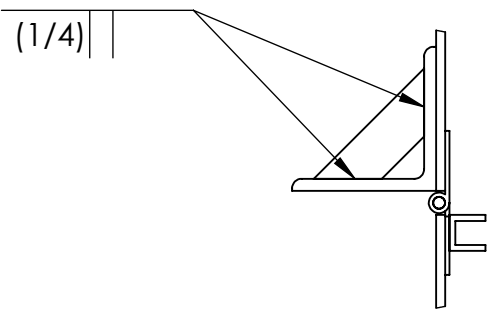
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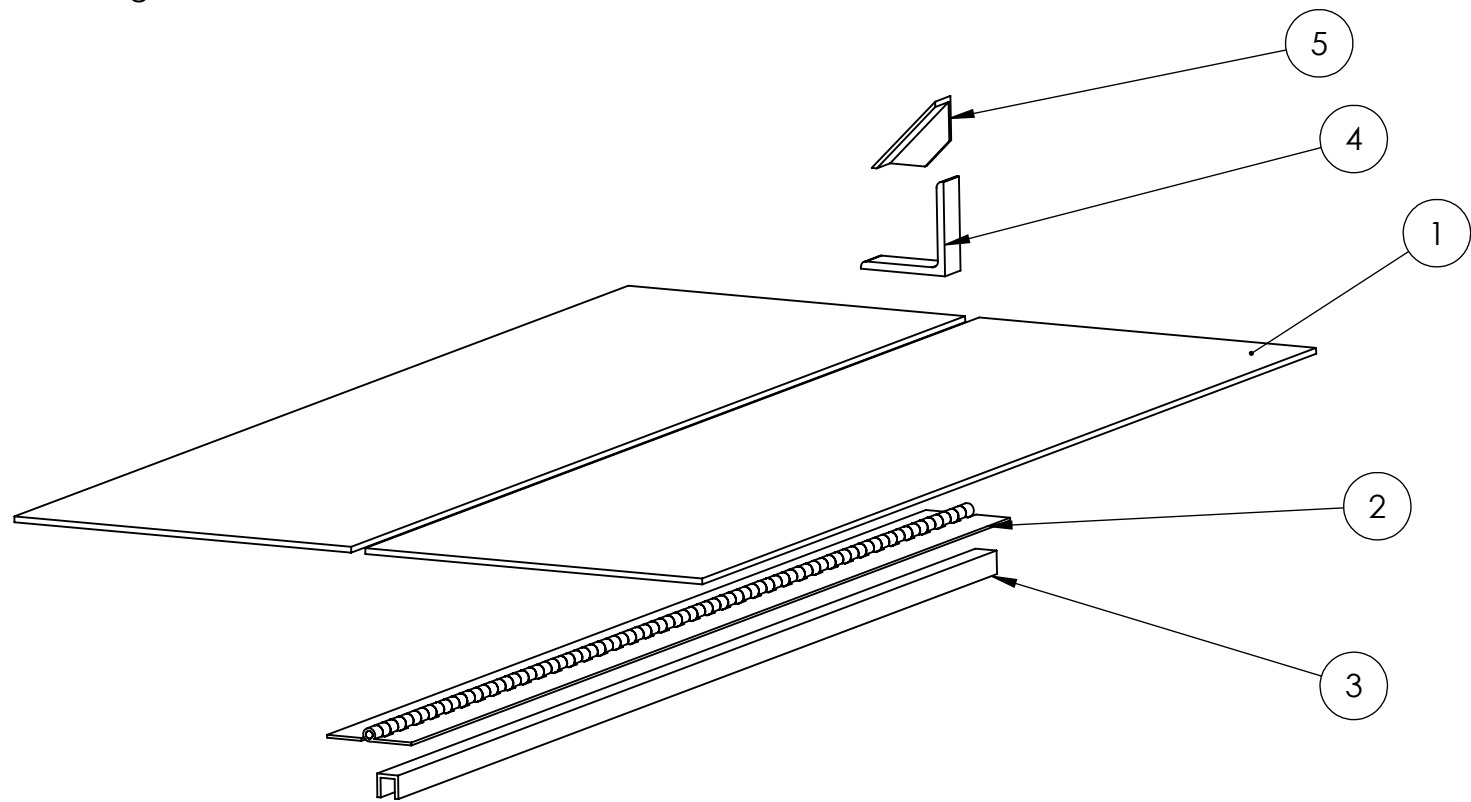
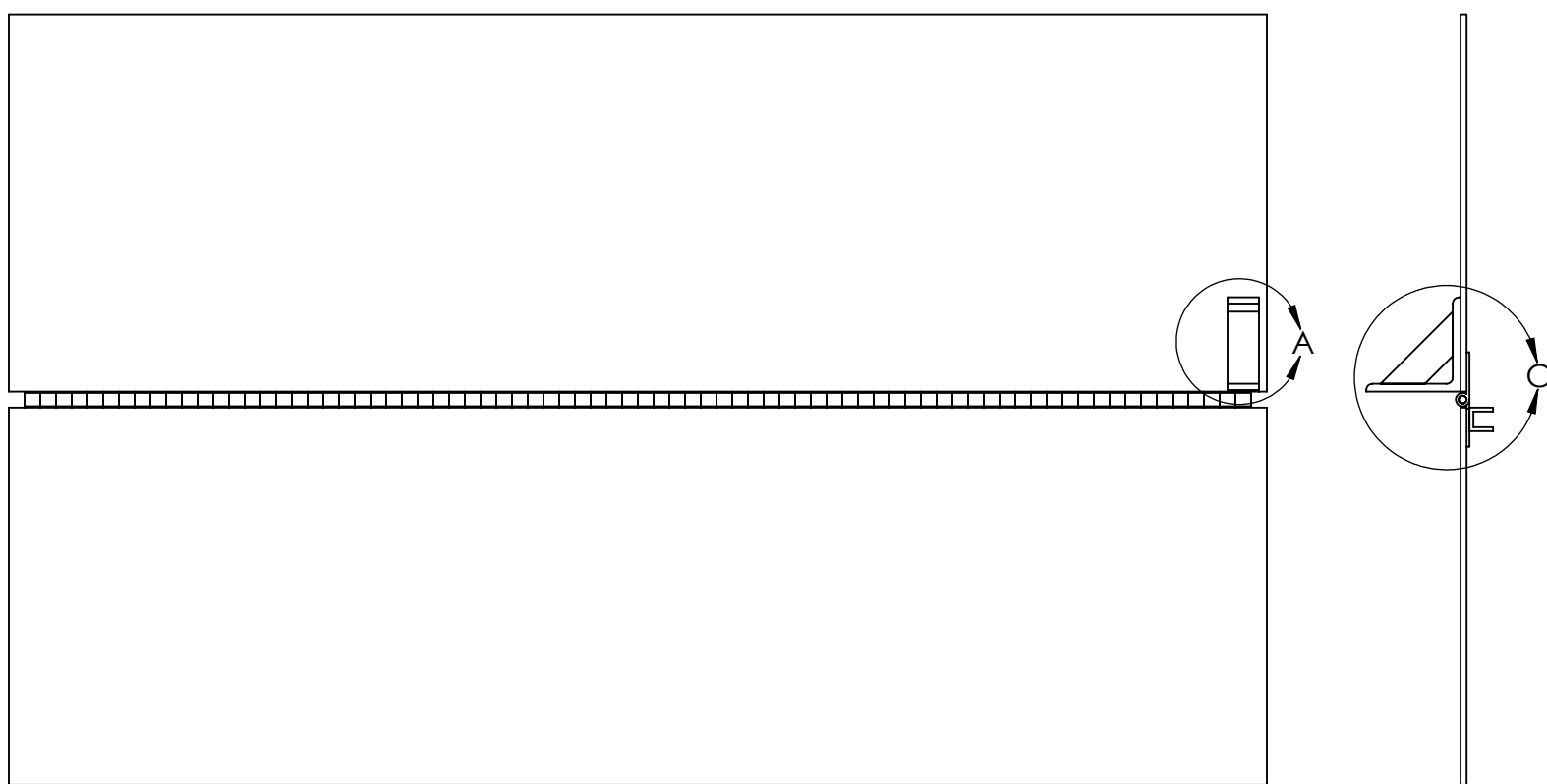
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	<div></div> <div>TITLE: <h1>Drivers Station Acrylic</h1></div>					
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .001$	DRAWN						SIZE <b>B</b>	DWG. NO. <b>FE-00012</b>	REV
			CHECKED								
			ENG APPR.								
		THREE PLACE DECIMAL $\pm .001$	MFG APPR.			SCALE: 1:8   WEIGHT:   SHEET 1 OF 1					
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.								
		MATERIAL	COMMENTS:								
NEXT ASSY	USED ON	FINISH									
APPLICATION		DO NOT SCALE DRAWING									

1



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	Redrawn	5/27/2008	narosenberg
	B	Drawing Reformatted	3/20/2020	CPO



DETAIL C  
SCALE 1 : 4



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FE-00014-01	3/16" 3003 Aluminum Diamond Plate	2
2	FE-00014-02	3" Aluminum Hinge, 1/4" Pin	1
3	FE-00014-03	3/4" x 3/4" x 1/8" 6061-T6 Aluminum 'U' Channel	1
4	FE-00014-04	3" x 3" x 1/4" 6061-T6 Aluminum Angle	1
5	FE-00014-05	1" x 1" x 1/8" 6061-T6 Aluminum Angle	1

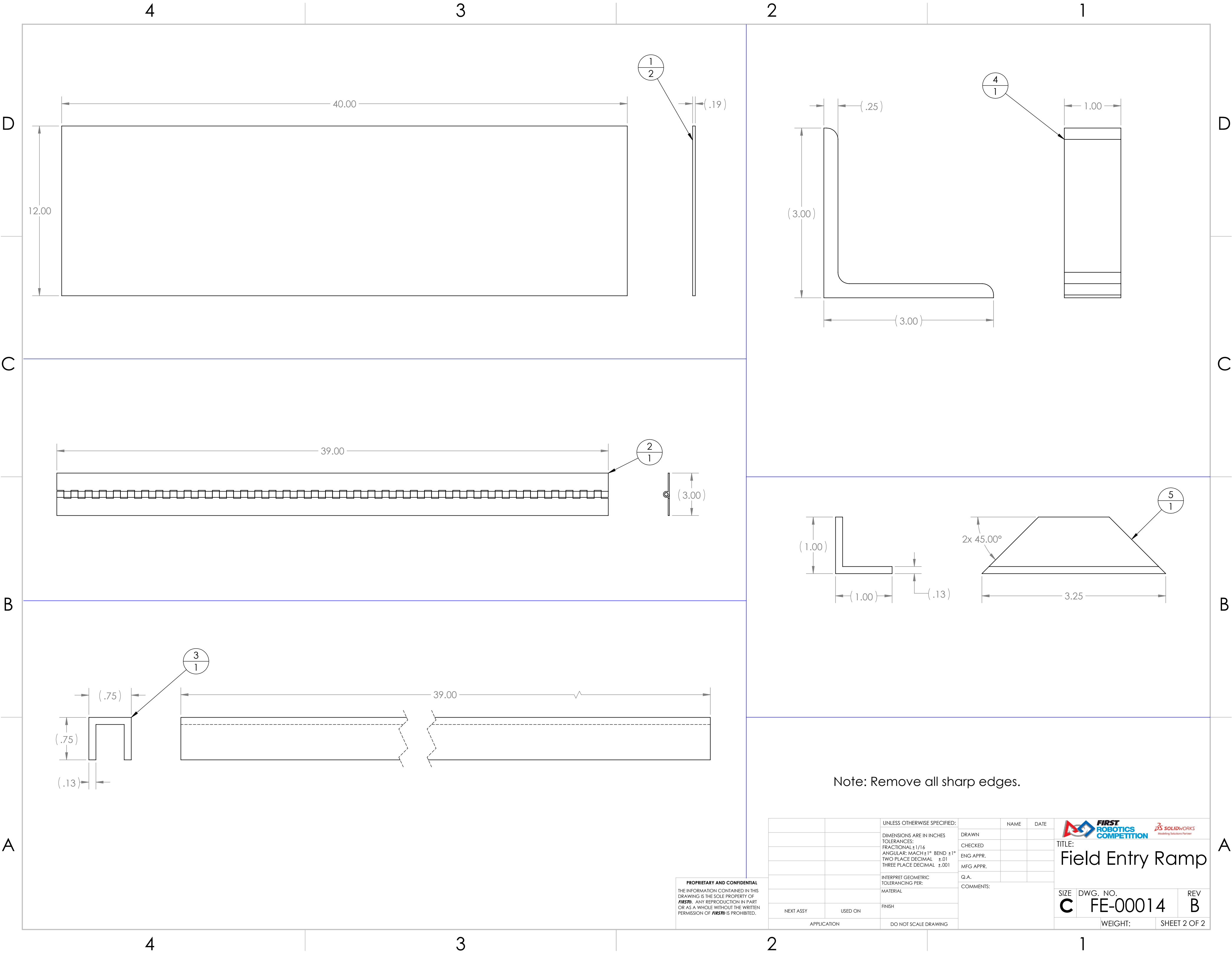



TITLE:



# Field Entry Ram

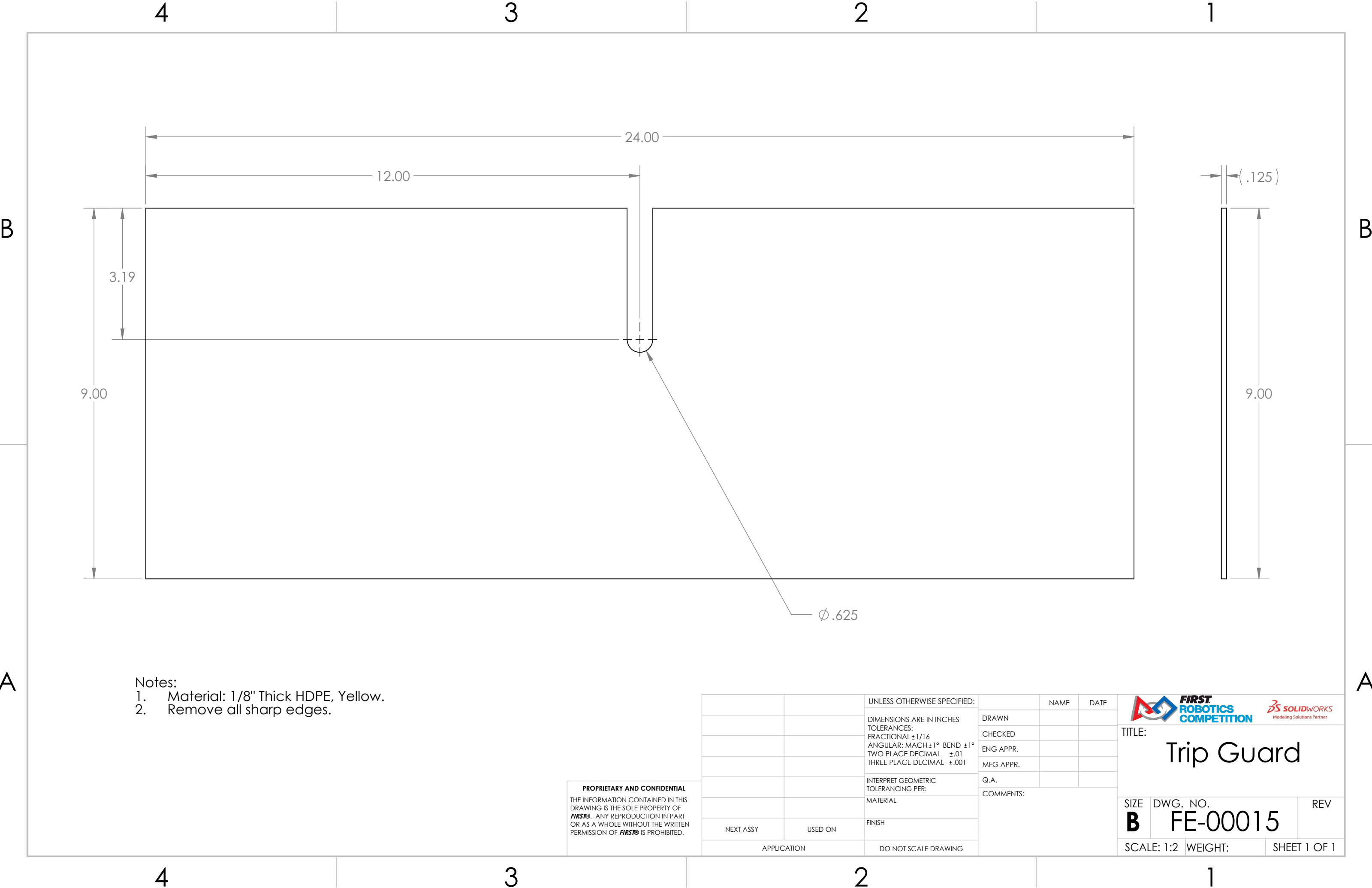
SIZE	DWG. NO.	REV
C	FE-00014	E
SCALE: 1:6	WEIGHT:	SHEET 1 OF

SIZE <b>C</b>	DWG. NO. <b>FE-00014</b>	REV <b>B</b>
SCALE: 1:6	WEIGHT:	SHEET 1 OF 2





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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	 
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .001$	DRAWN			
			CHECKED			
			ENG APPR.			
			MFG APPR.			
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			
		MATERIAL	COMMENTS:			
NEXT ASSY	USED ON	FINISH				
APPLICATION		DO NOT SCALE DRAWING				
TITLE: <h1>Field Entry Ramp</h1>						
SIZE		DWG. NO.			REV	
<b>C</b>		<b>FE-00014</b>			<b>B</b>	
WEIGHT:				SHEET 2 OF 2		



- Notes:
- 1. Material: 1/8" Thick HDPE, Yellow.
  - 2. Remove all sharp edges.

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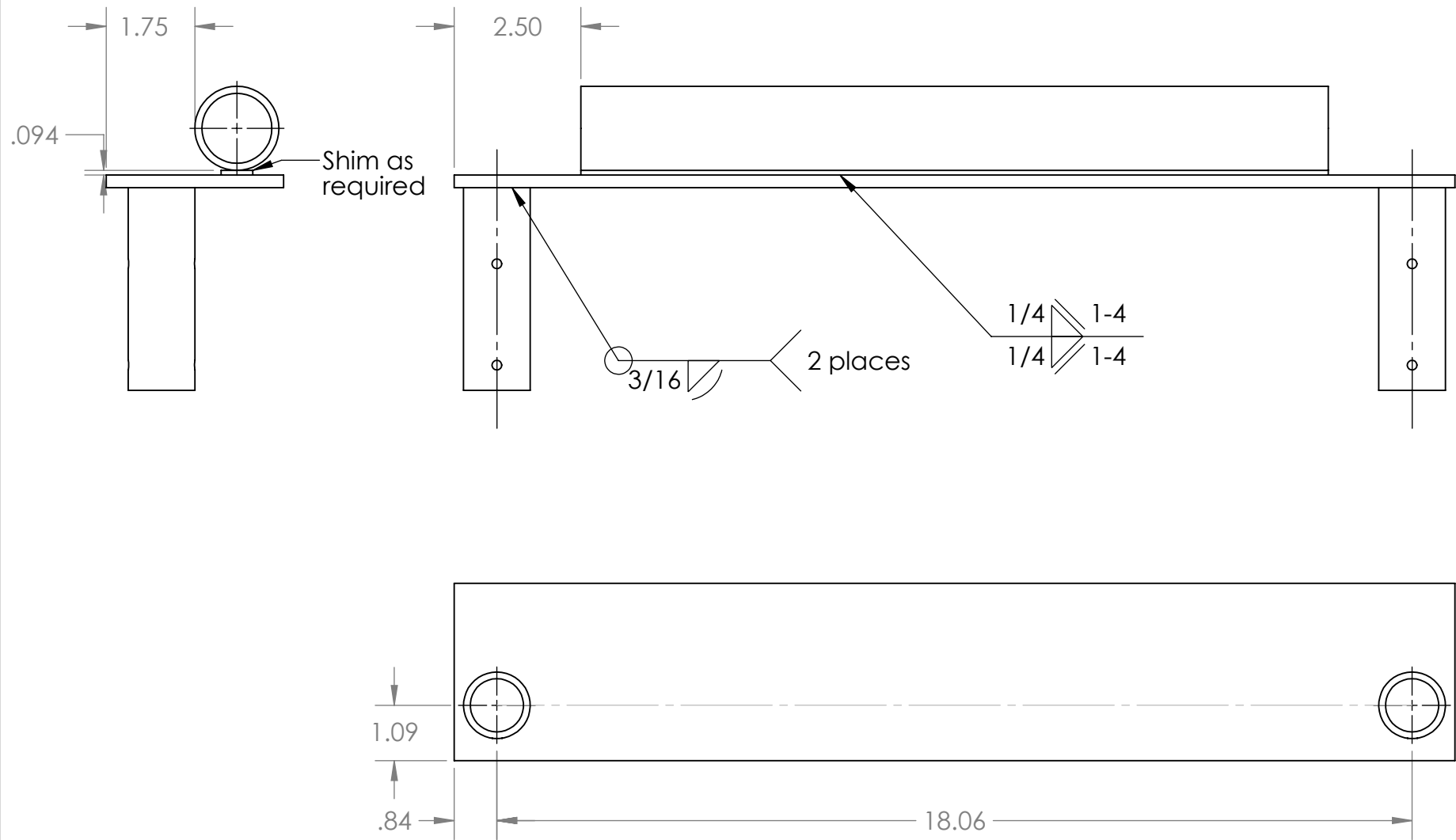
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	 		
		DIMENSIONS ARE IN INCHES	DRAWN			TITLE:  <h1>Trip Guard</h1>		
		TOLERANCES:	CHECKED					
		FRACTIONAL $\pm 1/16$	ENG APPR.					
		ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$	MFG APPR.					
		TWO PLACE DECIMAL $\pm .01$	Q.A.					
		THREE PLACE DECIMAL $\pm .001$	COMMENTS:			SIZE DWG. NO. REV <b>B</b> <b>FE-00015</b>		
		INTERPRET GEOMETRIC TOLERANCING PER:						
		MATERIAL						
		FINISH						
NEXT ASSY	USED ON							
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:2 WEIGHT: SHEET 1 OF 1		

B

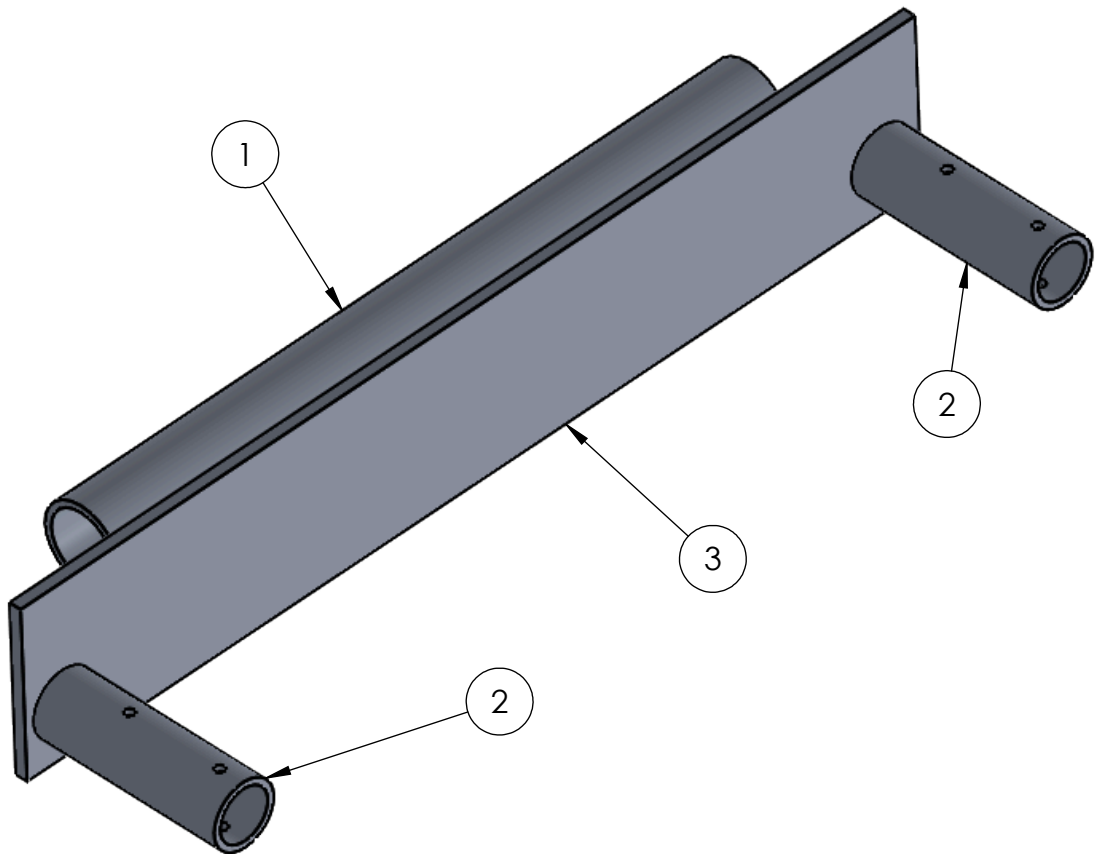
A

B

A





REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	Redrawn	5/30/2008	narosenberg
	B	Drawing reformatted.	3/20/2020	CPO

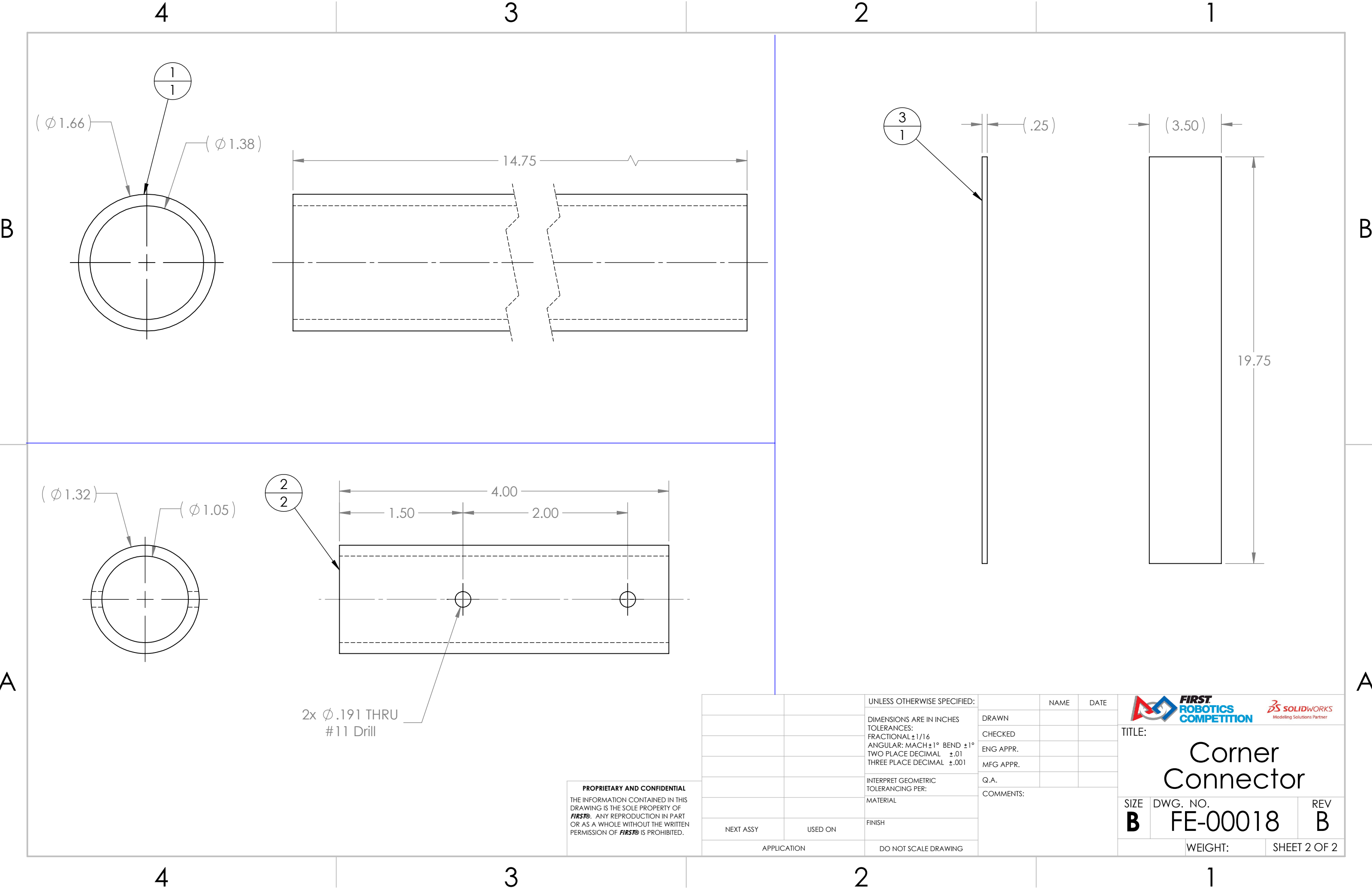


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FE-00018-01	1 1/4" Schedule 40 6061-T6 Aluminum Pipe	1
2	FE-00018-02	1" Schedule 40 6061-T6 Aluminum Pipe	2
3	FE-00018-03	3 1/2" x 1/4" 6061-T6 Aluminum Bar	1




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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	 			
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.001	DRAWN			TITLE:  <h1>Corner Connector</h1>			
			CHECKED						
			ENG APPR.						
			MFG APPR.						
			Q.A.						
		INTERPRET GEOMETRIC TOLERANCING PER:	COMMENTS:			SIZE DWG. NO. REV <b>B FE-00018 B</b>			
		MATERIAL							
		FINISH				SCALE: 1:3 WEIGHT: SHEET 1 OF 2			
NEXT ASSY	USED ON								
APPLICATION		DO NOT SCALE DRAWING							





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		DIMENSIONS ARE IN INCHES	DRAWN			TITLE:  <h1>Corner Connector</h1>			
		TOLERANCES:	CHECKED						
		FRACTIONAL $\pm 1/16$	ENG APPR.						
		ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$	MFG APPR.						
		TWO PLACE DECIMAL $\pm .01$	Q.A.						
		THREE PLACE DECIMAL $\pm .001$	COMMENTS:			SIZE DWG. NO. REV <b>B</b> <b>FE-00018</b> <b>B</b>			
		INTERPRET GEOMETRIC TOLERANCING PER:							
		MATERIAL							
		FINISH				WEIGHT: SHEET 2 OF 2			
NEXT ASSY	USED ON								
APPLICATION		DO NOT SCALE DRAWING							

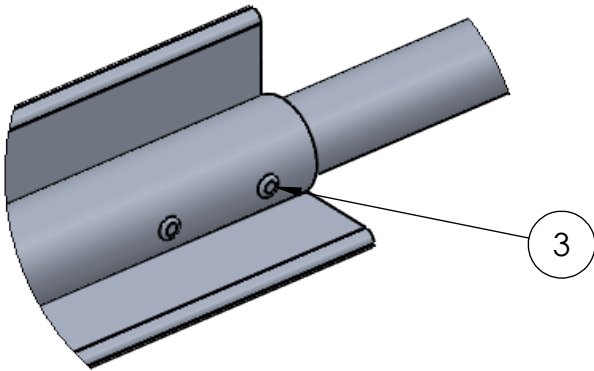
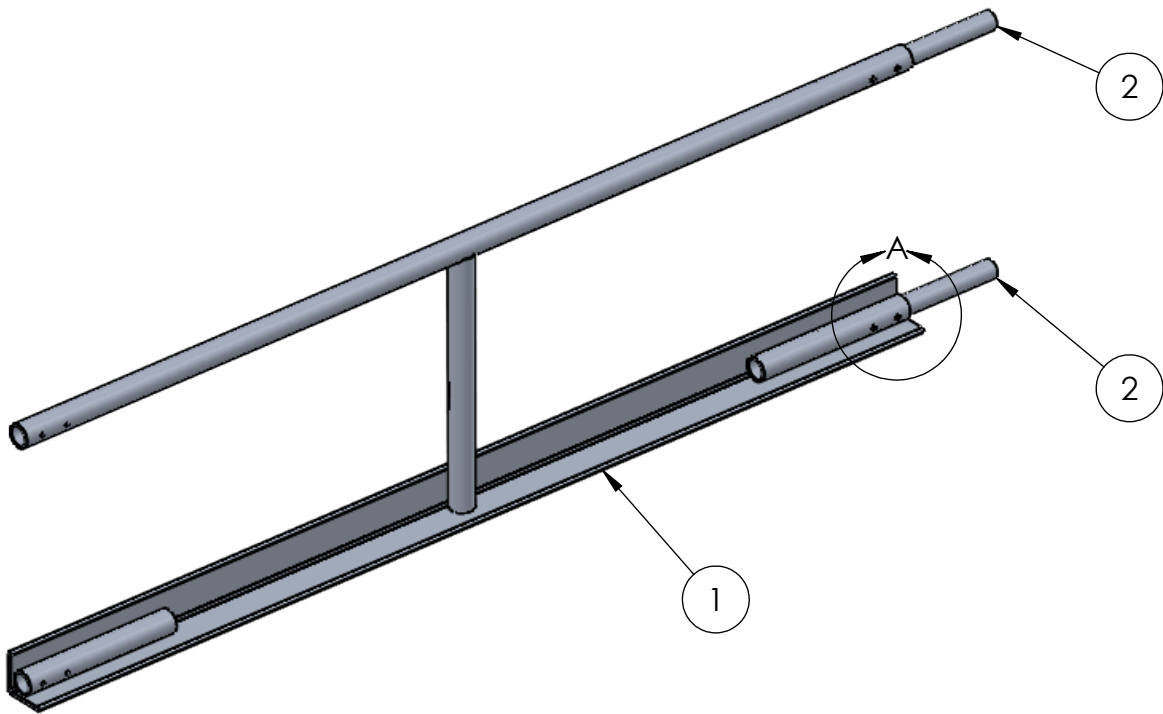
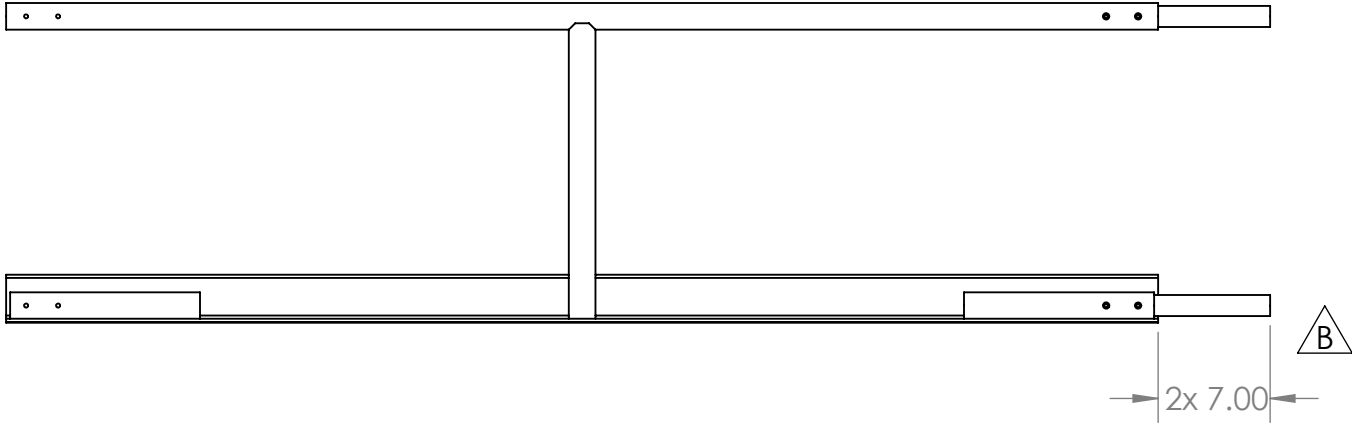
B

B

A

A

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
B2	B	Connector Pin moved so both are on same side of assembly	3/15/2018	CPO
A4	C	Rivet description and part number changed to add more detail.	3/20/2020	CPO





DETAIL A  
SCALE 1 : 3

C

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FE-00005	Field Rail	1
2	FE-00026	Connector Pin	2
3	rivet_.1875_.251-.375	3/16" Aluminum Rivet, .251-.375 Grip Range	4

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		DIMENSIONS ARE IN INCHES	DRAWN			TITLE:  <b>Field Rail Assy - Mid</b>						
		TOLERANCES:	CHECKED									
		FRACTIONAL $\pm 1/16$	ENG APPR.									
		ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$	MFG APPR.									
		TWO PLACE DECIMAL $\pm .01$	Q.A.									
		THREE PLACE DECIMAL $\pm .001$	COMMENTS:			SIZE DWG. NO. REV <b>B FE-00022 C</b>						
		INTERPRET GEOMETRIC TOLERANCING PER:								SCALE: 1:12 WEIGHT: SHEET 1 OF 1		
		MATERIAL										
		FINISH										
NEXT ASSY	USED ON											
APPLICATION		DO NOT SCALE DRAWING										

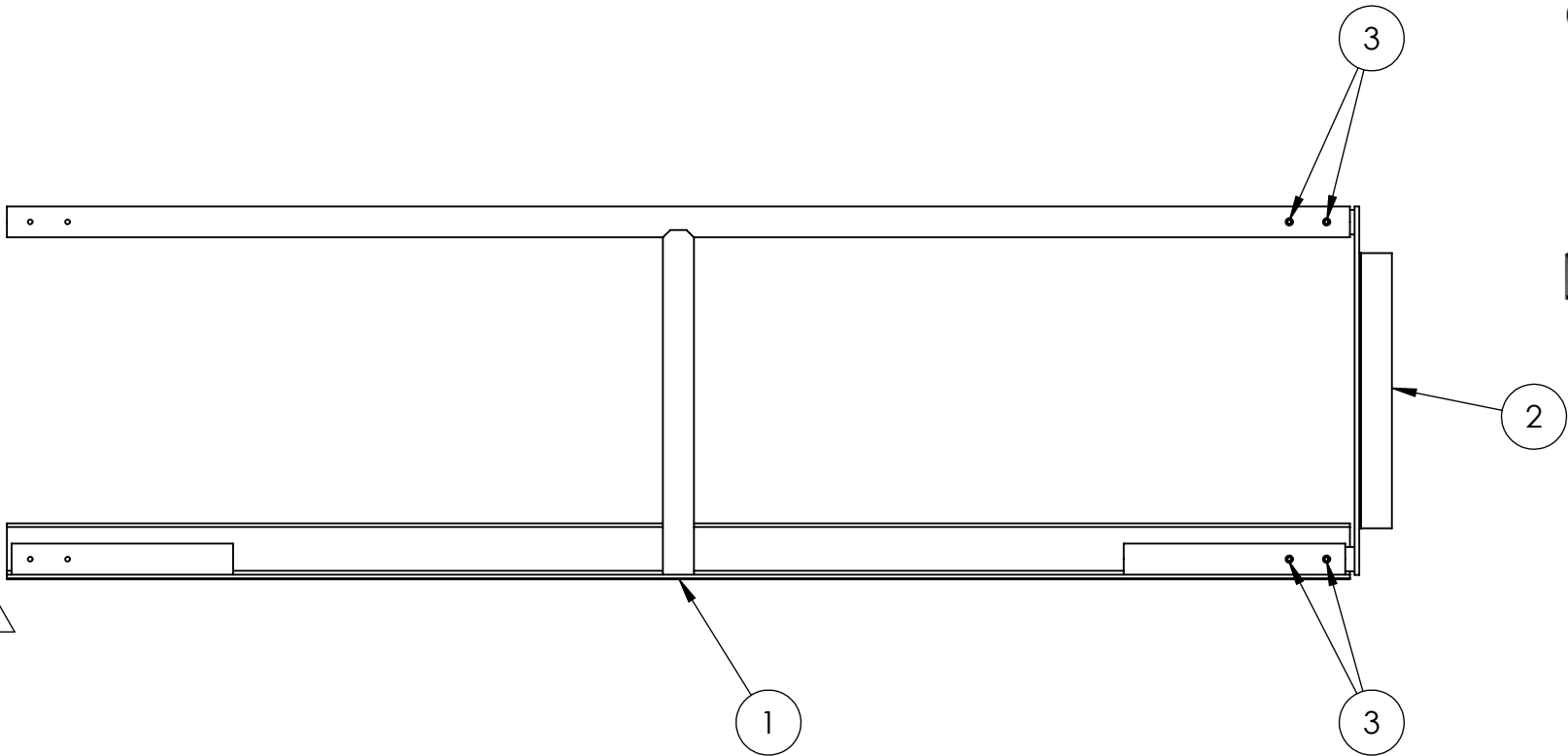
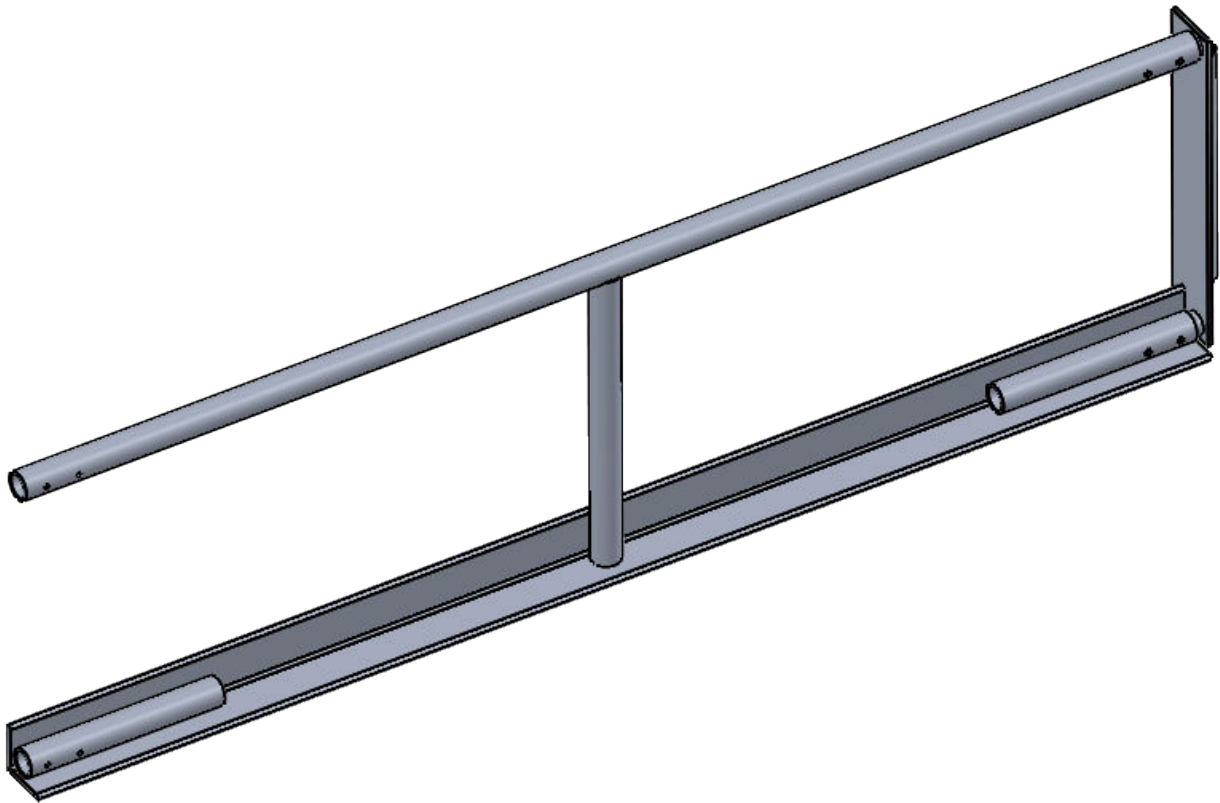
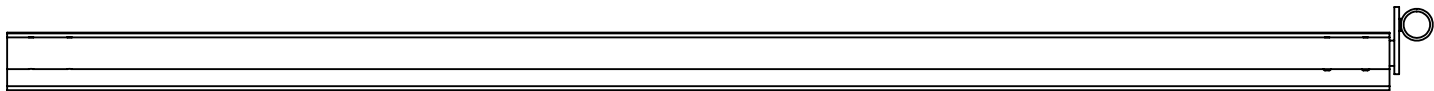
4

3

2

1

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
A4	B	Removed use of FE-00018 Connector Pin, modified rivet part number and description.	3/20/2020	CPO



B

B



A

A

B

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FE-00005	Field Rail	1
2	FE-00018	Corner Connector	1
3	rivet_.1875_.251-.375	3/16" Aluminum Rivet, .251-.375 Grip Range	4

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	<div></div>		
		DIMENSIONS ARE IN INCHES	DRAWN			TITLE: <div>Field Rail Assy - Left</div>		
		TOLERANCES:	CHECKED					
		FRACTIONAL $\pm 1/16$	ENG APPR.					
		ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$	MFG APPR.					
		TWO PLACE DECIMAL $\pm .01$						
		THREE PLACE DECIMAL $\pm .001$						
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.					
		MATERIAL	COMMENTS:					
		FINISH						
NEXT ASSY	USED ON							
APPLICATION		DO NOT SCALE DRAWING				SIZE <b>B</b>	DWG. NO. <b>FE-00023</b>	REV <b>B</b>
						SCALE: 1:10 WEIGHT:		SHEET 1 OF 1

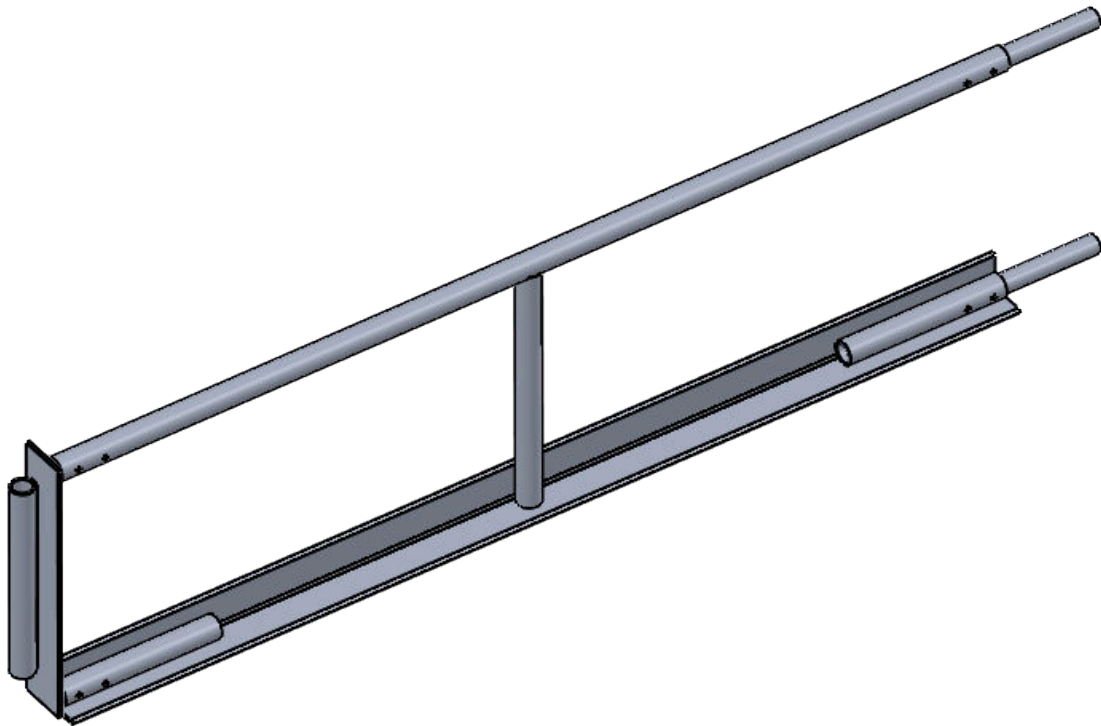
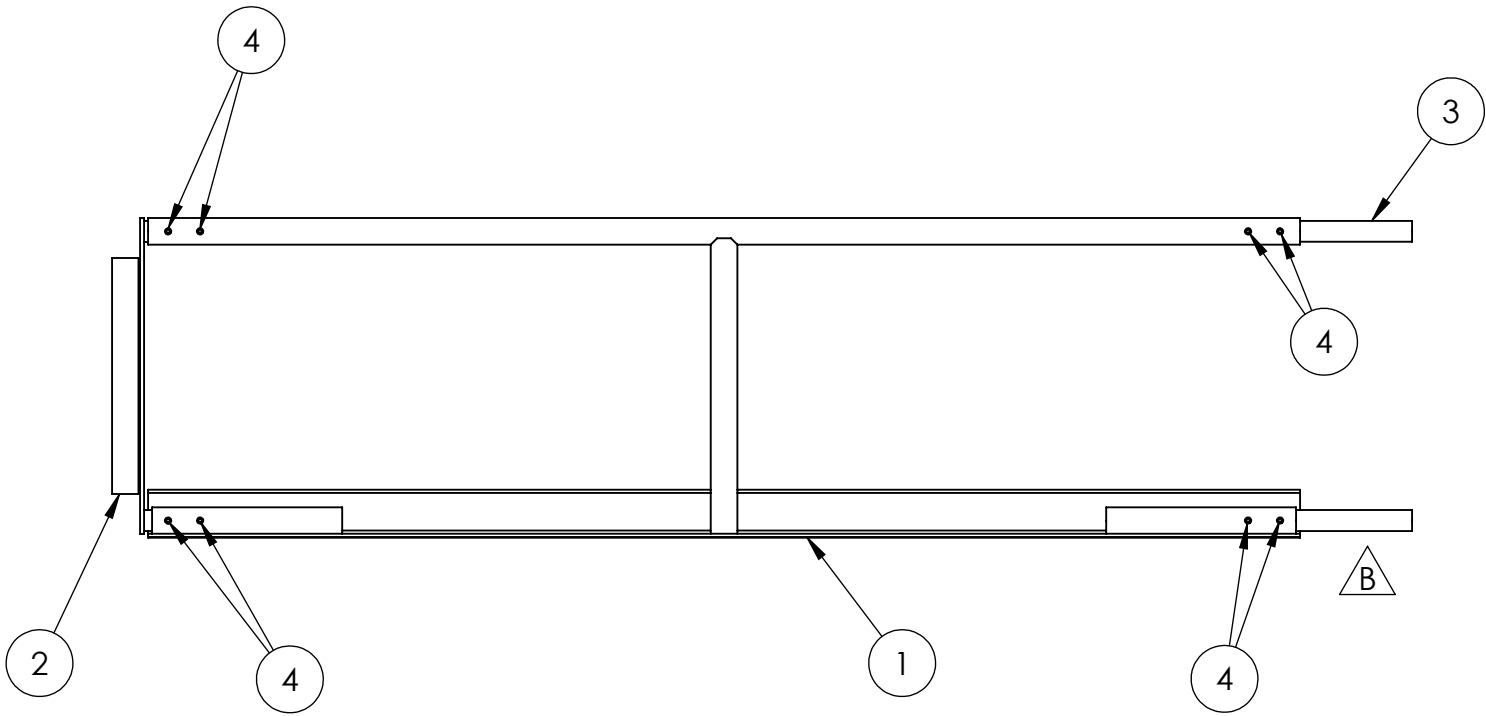
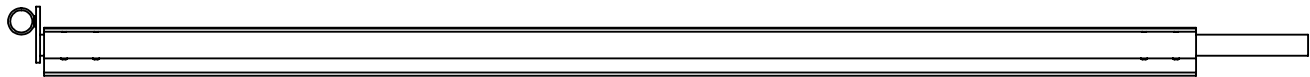
4

3

2

1



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
A3, A4	B	Additional FE-00026 Connector Pin added to assembly, rivet part number and description modified	3/20/2020	CPO



B

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FE-00005	Field Rail	1
2	FE-00018	Corner Connector	1
3	FE-00026	Connector Pin	2
4	rivet_.1875_.251-.375	3/16" Aluminum Rivet, .251-.375 Grip Range	8

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		DIMENSIONS ARE IN INCHES	DRAWN			TITLE:  <div>Field Rail Assy - Right</div>		
		TOLERANCES:	CHECKED					
		FRACTIONAL $\pm 1/16$	ENG APPR.					
		ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$	MFG APPR.					
		TWO PLACE DECIMAL $\pm .01$	Q.A.					
		THREE PLACE DECIMAL $\pm .001$	COMMENTS:			SIZE DWG. NO. REV <div>B FE-00024 B</div>		
		INTERPRET GEOMETRIC TOLERANCING PER:						
		MATERIAL						
		FINISH						
NEXT ASSY	USED ON							
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:12 WEIGHT: SHEET 1 OF 1		

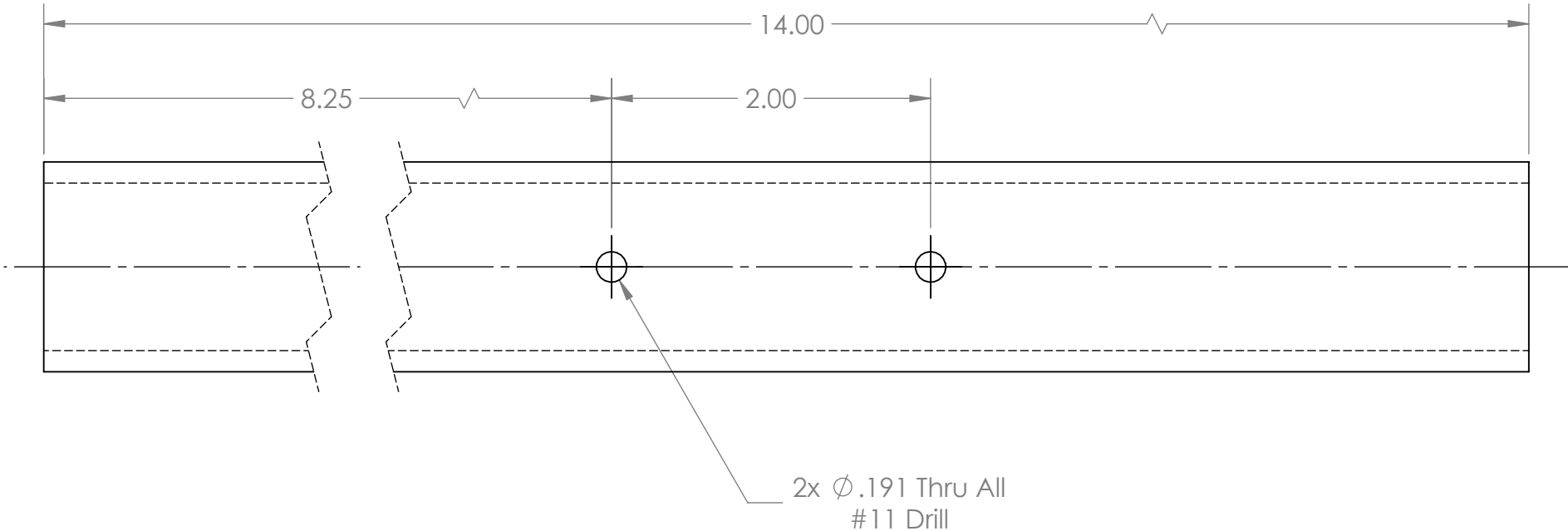
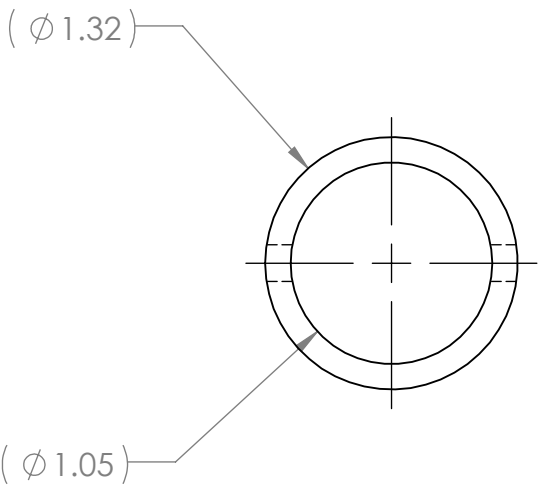
4

3

2



1

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	redrawn	6/5/2008	dfoster



- Notes:
1. Material: 1" Schedule 40 Pipe, 6061-T6 Aluminum
  2. Remove all sharp edges

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		UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.001	DRAWN	NAME	DATE	<div></div> <div>TITLE: <h1>Connector Pin</h1></div>		
			CHECKED					
			ENG APPR.					
			MFG APPR.					
			Q.A.					
		INTERPRET GEOMETRIC TOLERANCING PER:	COMMENTS:			<div>SIZE DWG. NO. REV</div> <div><b>B</b> <b>FE-00026</b> <b>A</b></div>		
		MATERIAL						
		FINISH						
NEXT ASSY	USED ON					SCALE: 1:1 WEIGHT: SHEET 1 OF 1		
APPLICATION		DO NOT SCALE DRAWING						



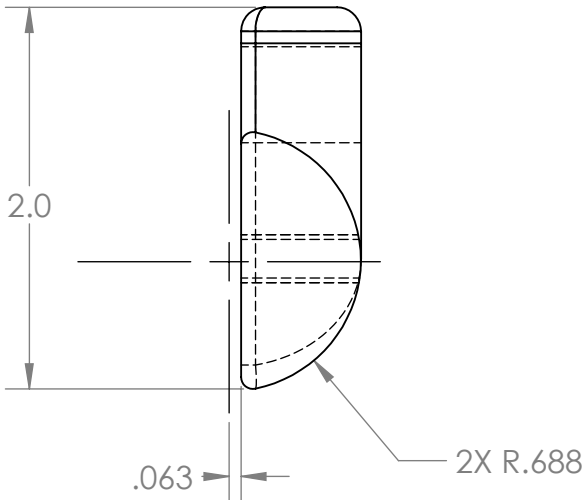
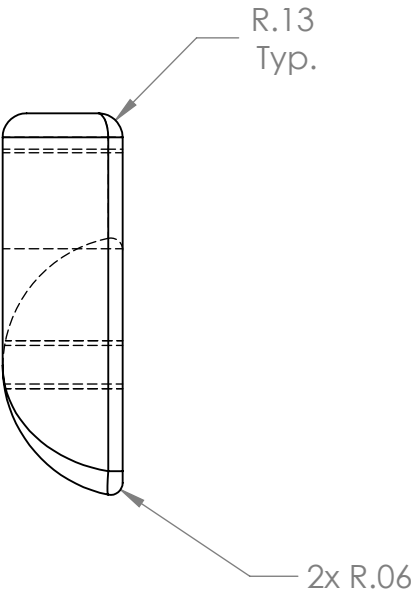
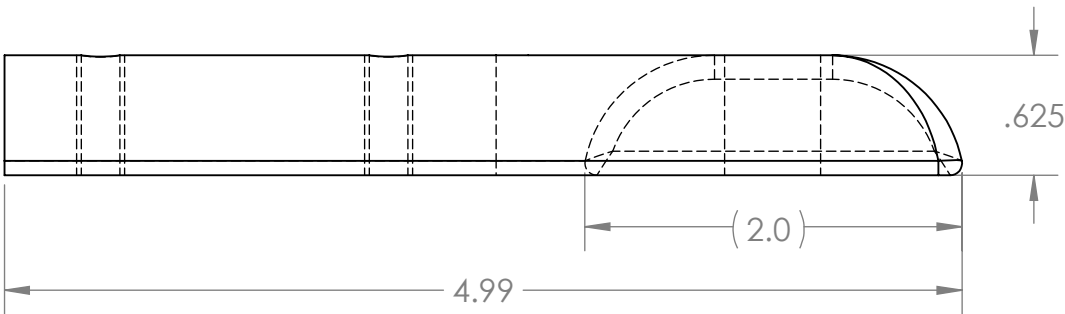
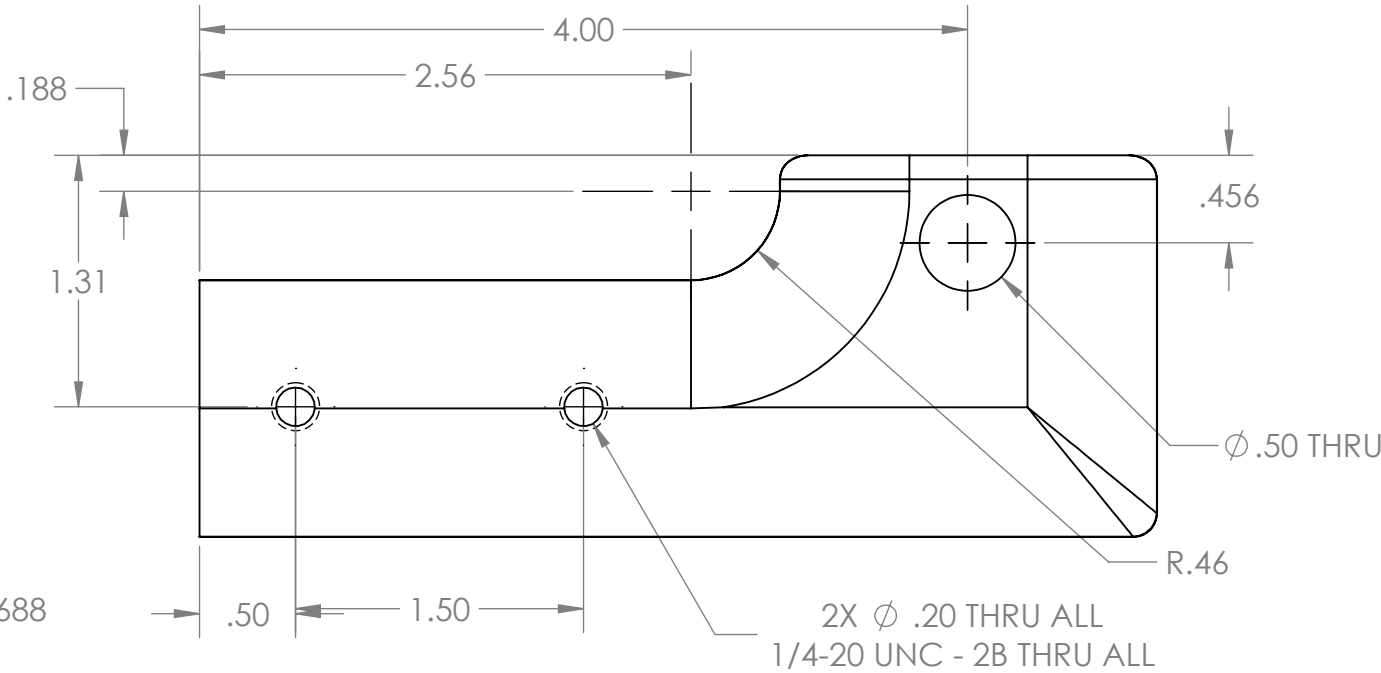
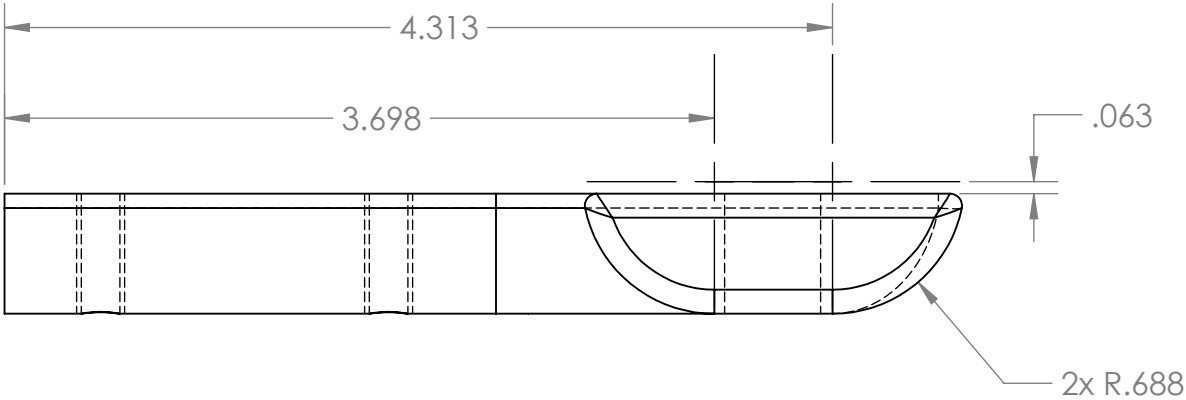
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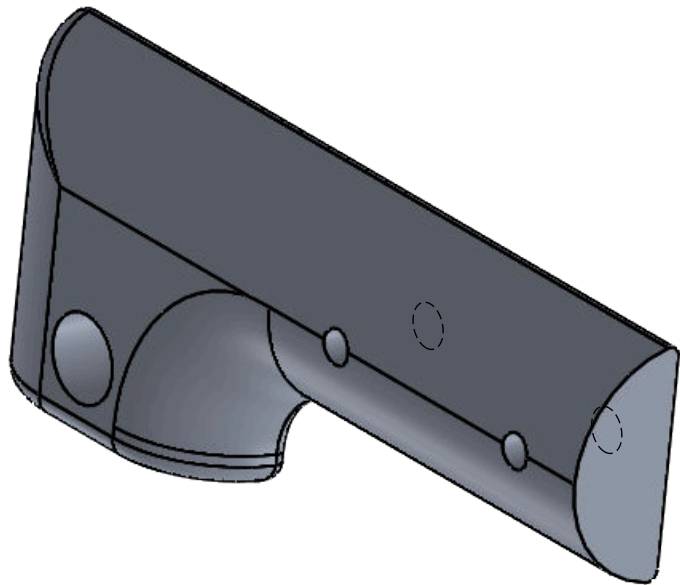
2

1

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	redrawn	8/8/2008	dfoster



- Notes:
1. Material: 6063 Aluminum
  2. Remove all sharp edges



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UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: <b>Hinge, Insert</b>	
DIMENSIONS ARE IN INCHES		DRAWN			
TOLERANCES:		CHECKED			
FRACTIONAL ±1/16		ENG APPR.			
ANGULAR: MACH ±1° BEND ±1°		MFG APPR.			
TWO PLACE DECIMAL ±.01		Q.A.		SIZE DWG. NO. REV <b>B FE-00027 A</b>	
THREE PLACE DECIMAL ±.001		COMMENTS:			
INTERPRET GEOMETRIC TOLERANCING PER:					
MATERIAL				SCALE: 1:1 WEIGHT: SHEET 1 OF 1	
FINISH					
NEXT ASSY	USED ON	DO NOT SCALE DRAWING			
APPLICATION					

4

3

2

1

4

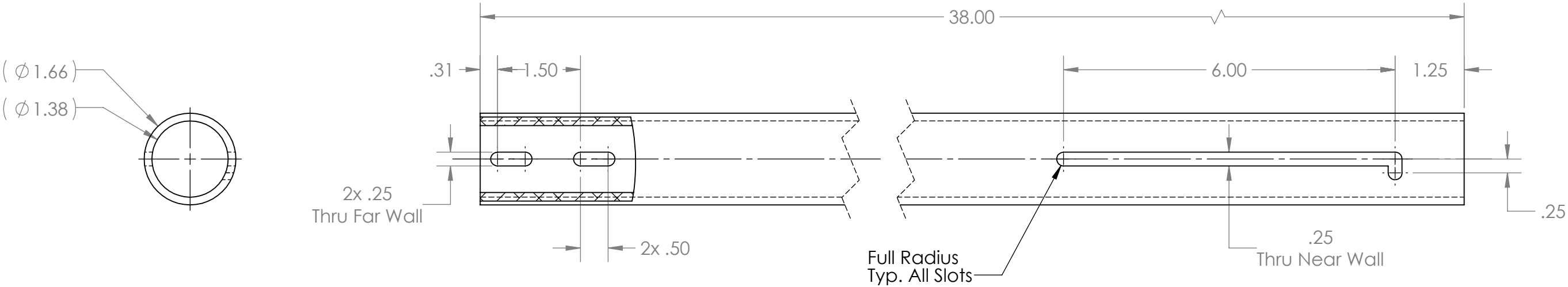
3

2

1

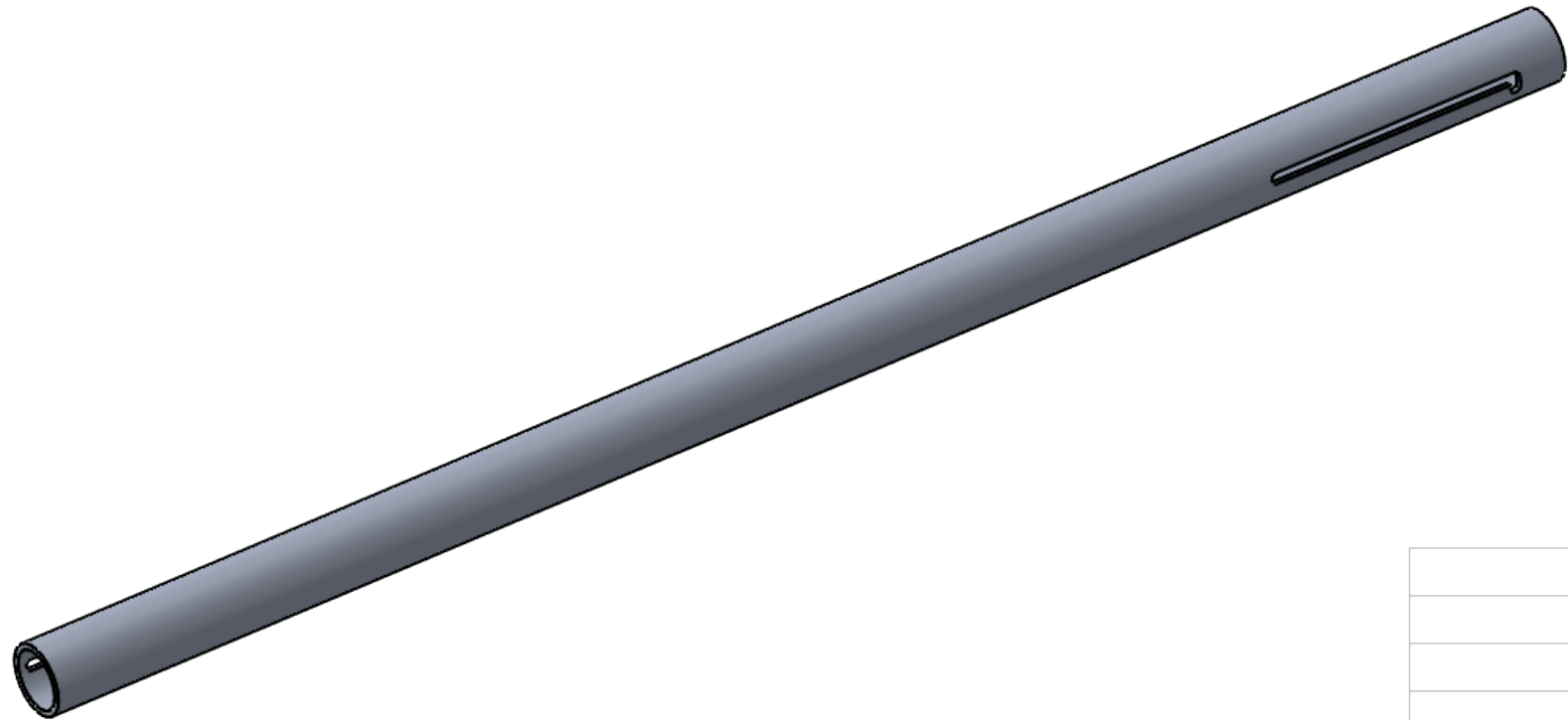
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	Redrawn	8/6/2008	dfoster

B



B



A



A

- Notes:
1. Material: 1-1/4" Aluminum 6061-T6 Schedule 40 Pipe
  2. Remove all sharp edges.

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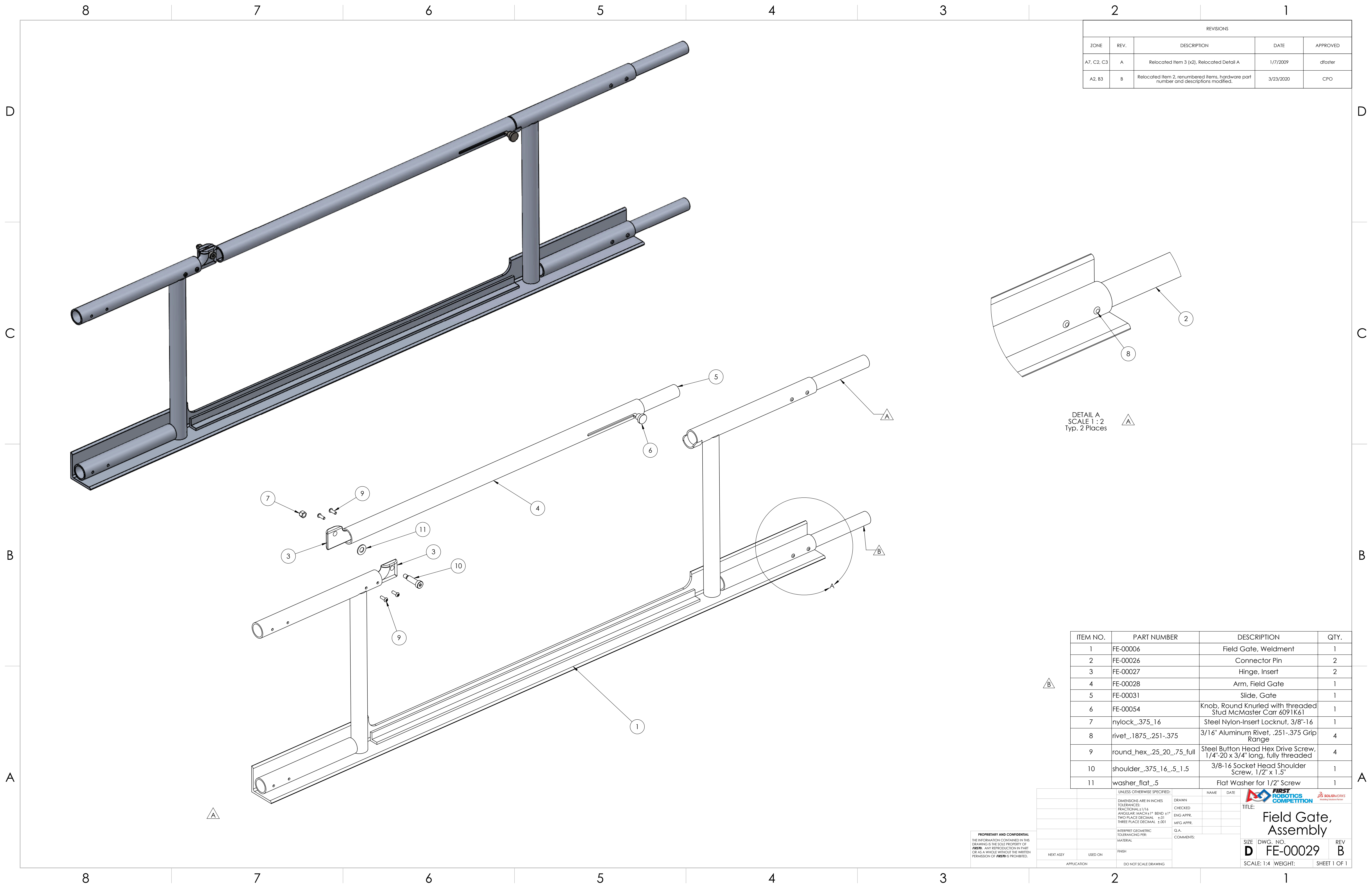
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	 		
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .001$	DRAWN			TITLE:  <h1>Arm, Field Gate</h1>		
			CHECKED					
			ENG APPR.					
			MFG APPR.					
			Q.A.					
		INTERPRET GEOMETRIC TOLERANCING PER:	COMMENTS:			SIZE DWG. NO. REV <b>B FE-00028 A</b>		
		MATERIAL						
NEXT ASSY	USED ON	FINISH						
APPLICATION		DO NOT SCALE DRAWING						
					WEIGHT:		SHEET 1 OF 1	

4

3

2

1



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
A7, C2, C3	A	Relocated Item 3 (x2), Relocated Detail A	1/7/2009	dfoster
A2, B3	B	Relocated Item 2, renumbered items, hardware part number and descriptions modified.	3/23/2020	CPO

DETAIL A  
SCALE 1 : 2  
Typ. 2 Places

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FE-00006	Field Gate, Weldment	1
2	FE-00026	Connector Pin	2
3	FE-00027	Hinge, Insert	2
4	FE-00028	Arm, Field Gate	1
5	FE-00031	Slide, Gate	1
6	FE-00054	Knob, Round Knurled with threaded Stud McMaster Carr 6091K61	1
7	nylock_.375_16	Steel Nylon-Insert Locknut, 3/8"-16	1
8	rivet_.1875_.251-.375	3/16" Aluminum Rivet, .251-.375 Grip Range	4
9	round_hex_.25_20_.75_full	Steel Button Head Hex Drive Screw, 1/4"-20 x 3/4" long, fully threaded	4
10	shoulder_.375_16_.5_1.5	3/8-16 Socket Head Shoulder Screw, 1/2" x 1.5"	1
11	washer_flat_.5	Flat Washer for 1/2" Screw	1

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DIMENSIONS ARE IN INCHES	DRAWN		
FRACTIONAL: ±1/16	CHECKED		
TOLERANCES:	ENG APPR.		
ANGULAR: MACH ±1° BEND ±1°	MFG APPR.		
TWO PLACE DECIMAL ±.01			
THREE PLACE DECIMAL ±.001			
INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
MATERIAL	COMMENTS:		
FINISH			
APPLICATION	DO NOT SCALE DRAWING		

TITLE:		FIRST ROBOTICS COMPETITION		SOLIDWORKS	
Field Gate, Assembly					
SIZE	DWG. NO.			REV	
D	FE-00029			B	
SCALE: 1:4		WEIGHT:		SHEET 1 OF 1	

4

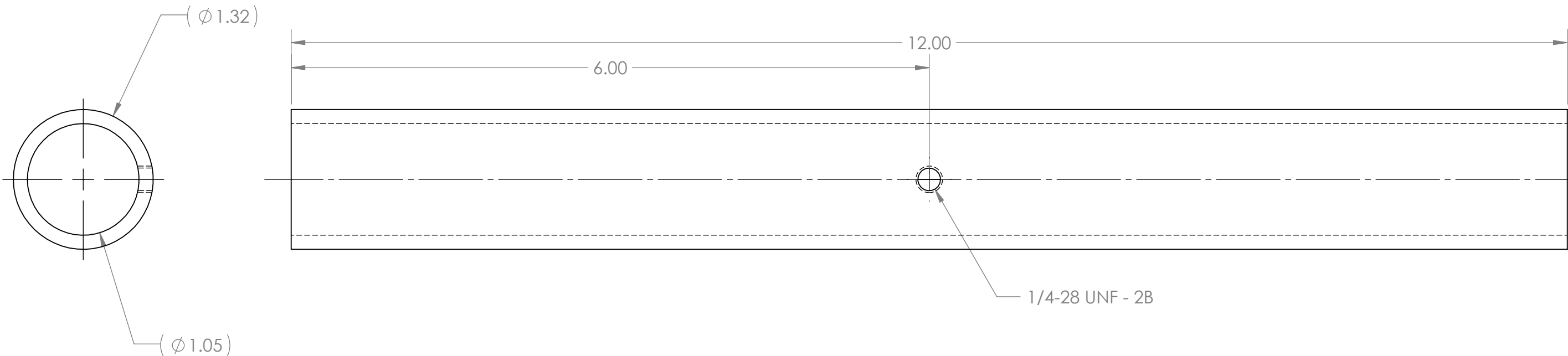
3

2

1

B

B





Notes:

1. Material: 1" Schedule 40 Aluminum 6061-T6.
2. Remove all sharp edges.

A

A

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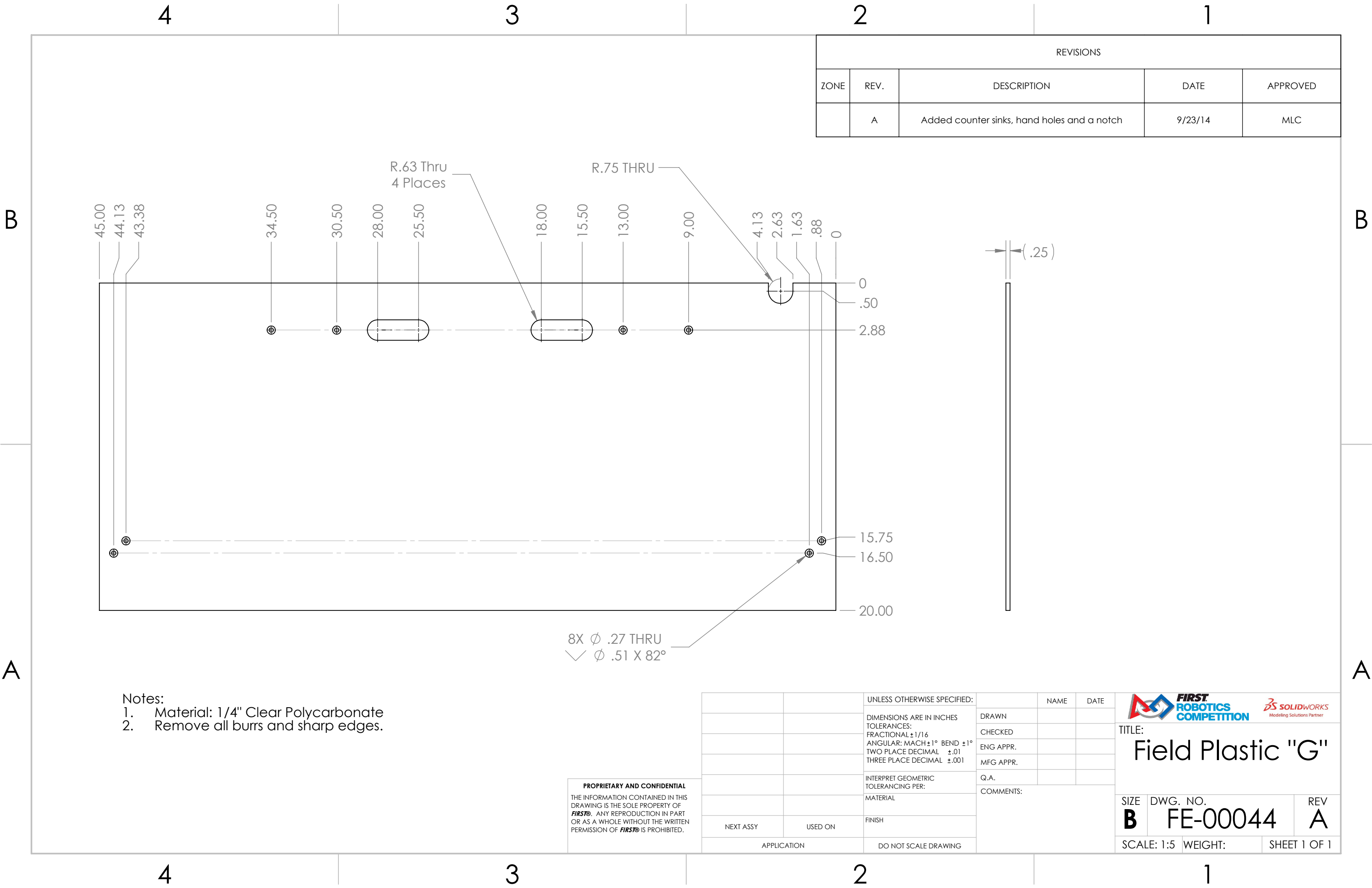
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			CHECKED						
			ENG APPR.						
			MFG APPR.						
			Q.A.						
		INTERPRET GEOMETRIC TOLERANCING PER:	COMMENTS:			<div>SIZE DWG. NO. REV</div> <div>B FE-00031</div>			
		MATERIAL							
		FINISH							
NEXT ASSY	USED ON								
APPLICATION		DO NOT SCALE DRAWING	SCALE: 1:1				WEIGHT:	SHEET 1 OF 1	

4

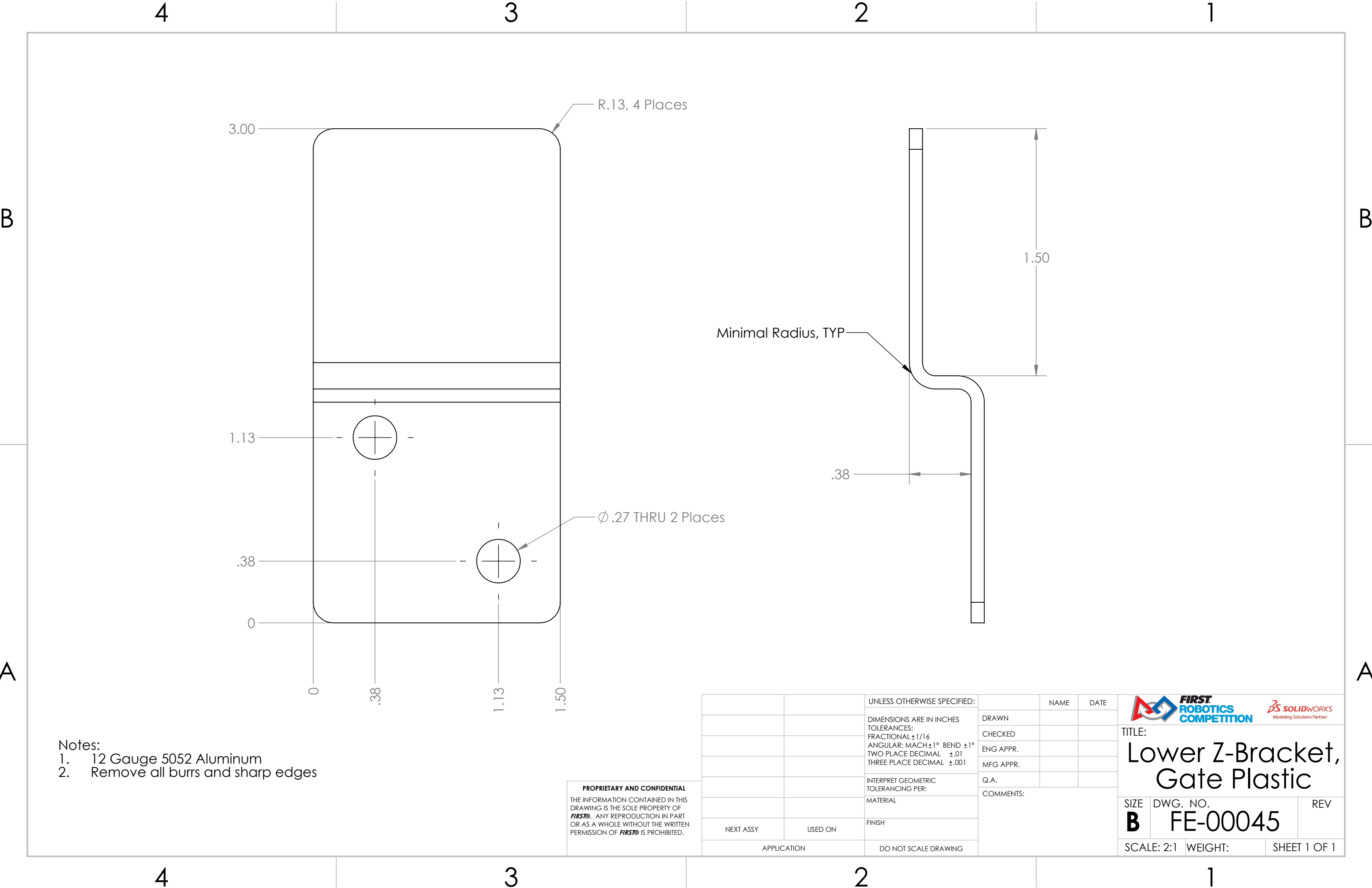
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2

1





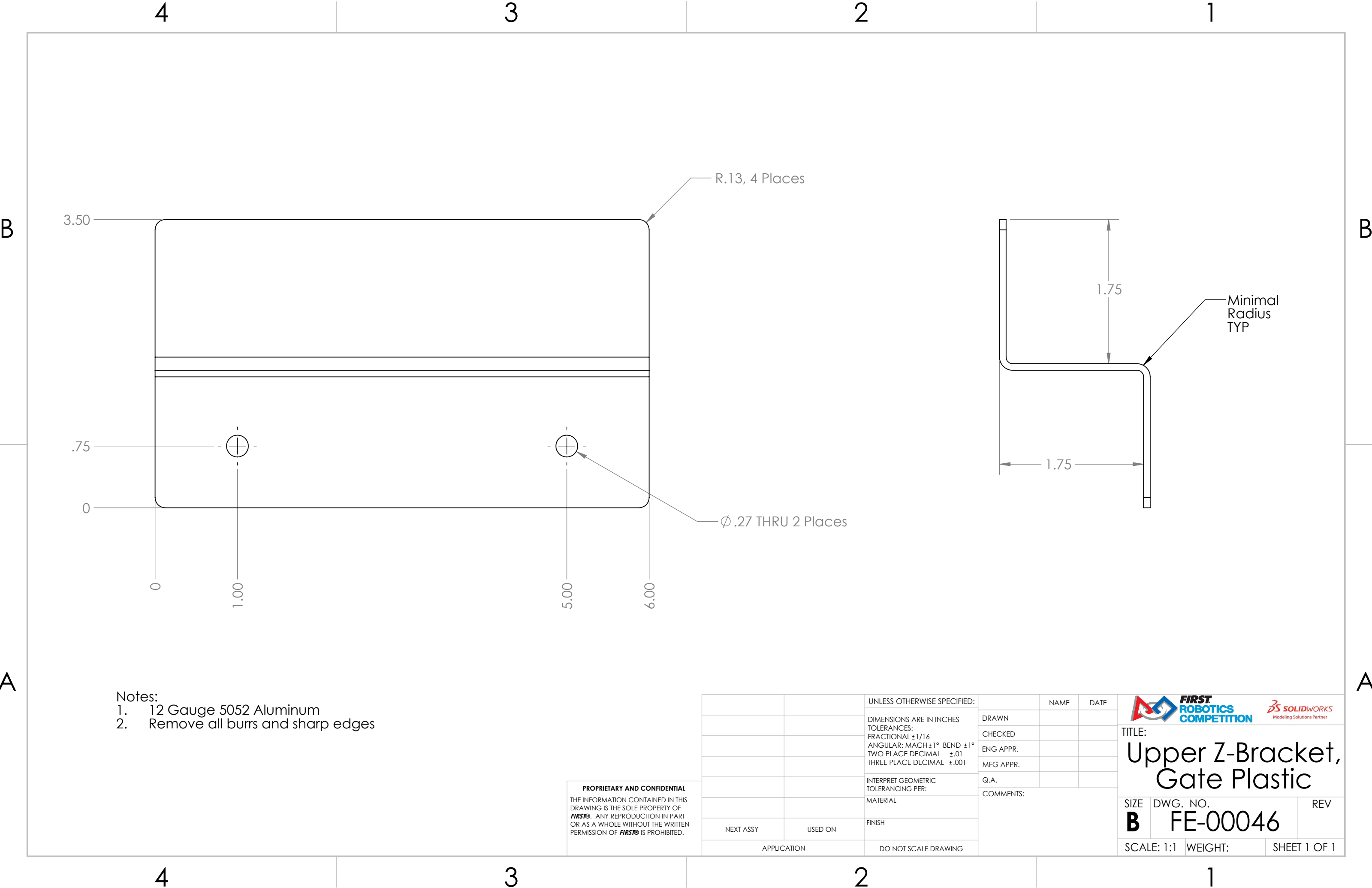




- Notes:
- 12 Gauge 5052 Aluminum
  - Remove all burrs and sharp edges

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		DIMENSIONS ARE IN INCHES	DRAWN			TITLE: <div>Lower Z-Bracket, Gate Plastic</div>				
		TOLERANCES:	CHECKED							
		FRACTIONAL $\pm 1/16$	ENG APPR.							
		ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$	MFG APPR.							
		TWO PLACE DECIMAL $\pm .01$	Q.A.							
		THREE PLACE DECIMAL $\pm .001$	COMMENTS:			SIZE		DWG. NO.		REV
		INTERPRET GEOMETRIC TOLERANCING PER:				B		FE-00045		
		MATERIAL								
		FINISH								
NEXT ASSY	USED ON									
APPLICATION		DO NOT SCALE DRAWING				SCALE: 2:1		WEIGHT:		SHEET 1 OF 1





4

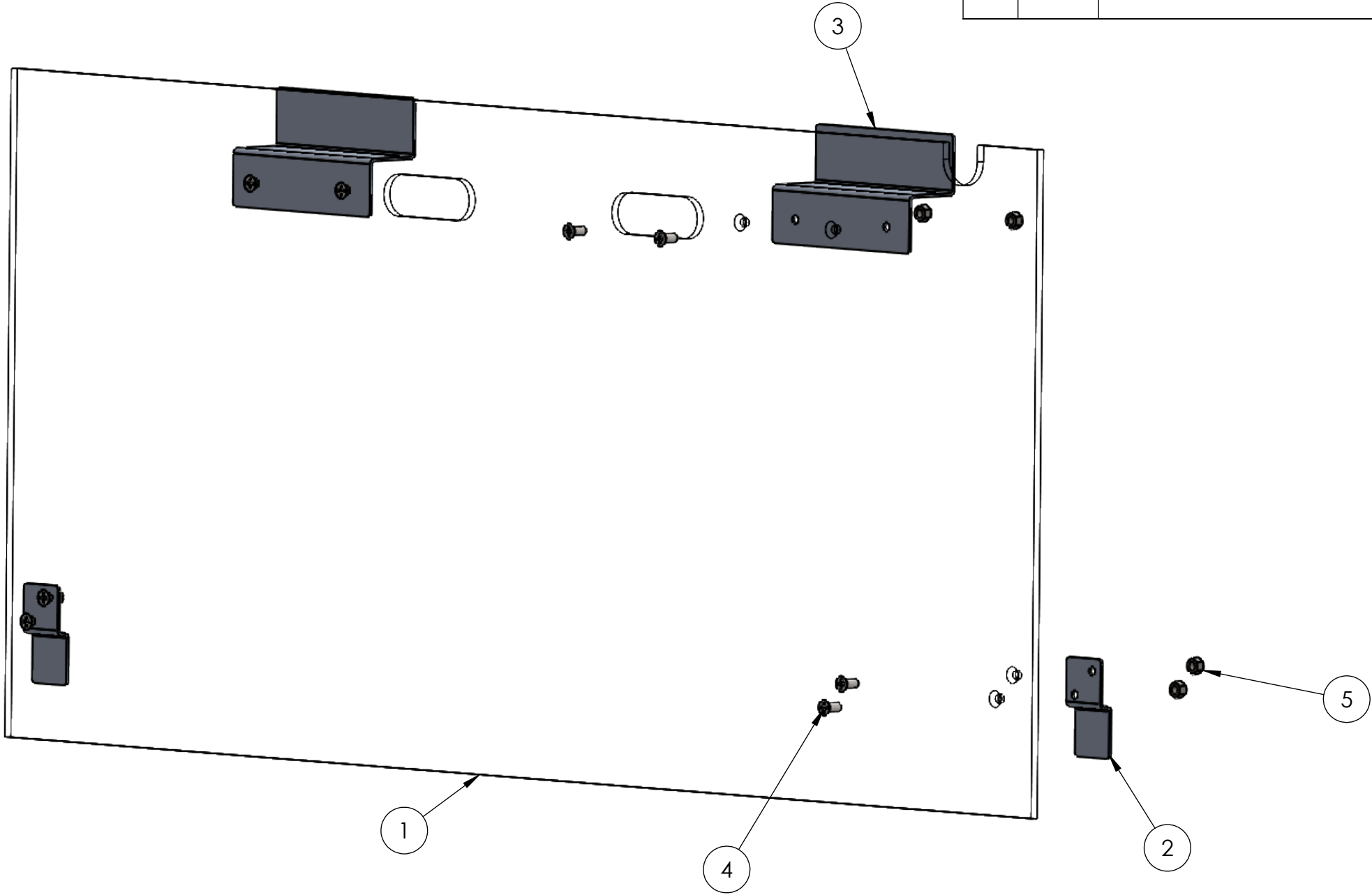
3

2

1

REVISIONS

ZONE	REV.	DESCRIPTION	DATE	APPROVED
A4	A	Fastener part number and descriptions modified.	3/23/2020	CPO





A

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FE-00044	Field Plastic "G"	1
2	FE-00045	Lower Z-Bracket, Gate Plastic	2
3	FE-00046	Upper Z-Bracket, Gate Plastic	2
4	flat_phil_.25_20_.625	Steel Phillips Flat Head Screw, 1/4"x20 x 5/8" long, fully threaded	8
5	nylock_.25_20	Steel Nylon-Insert Locknut, 1/4"-20	8

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	CHECKED		
	ENG APPR.		
	MFG APPR.		
INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
MATERIAL	COMMENTS:		
FINISH			
NEXT ASSY	USED ON		
APPLICATION		DO NOT SCALE DRAWING	



TITLE:  

# Gate Plastic Assembly

SIZE  
**B**

DWG. NO.  
**FE-00047**

REV  
**A**

SCALE: 1:4    WEIGHT:    SHEET 1 OF 1

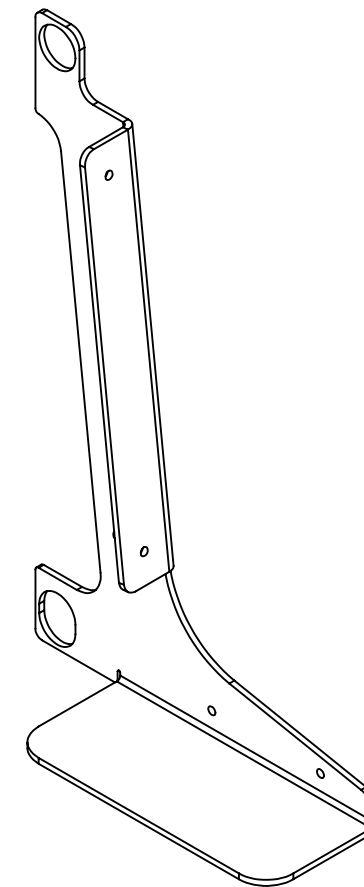
4

3

2

1

1



This drawing represents overall dimensions for AndyMark AM-2810. Please see the AndyMark website for more details regarding part dimensions.

SHEET 1 OF 1

1

4

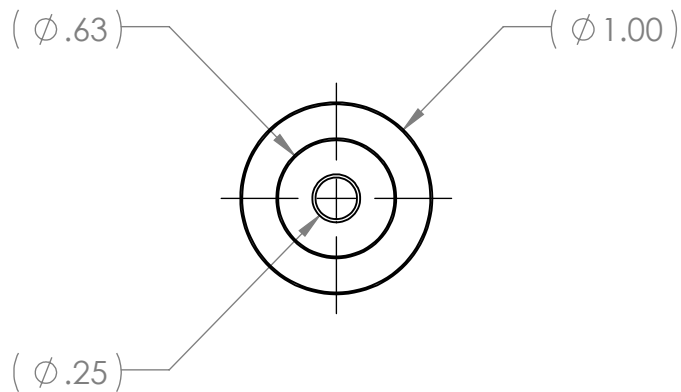
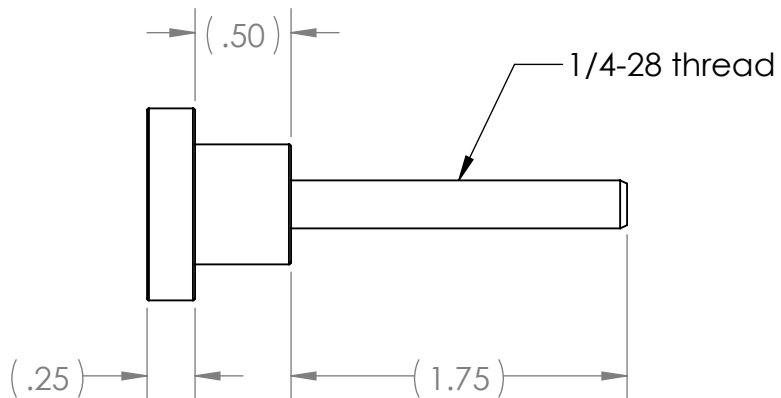
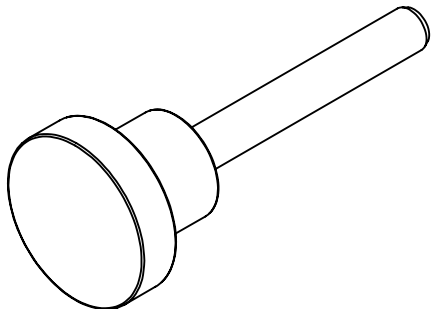
3

2

1

B



B



Notes:

1. Description: 303 Stainless Steel Knurled Knob with 1/4"-28 Thread 1-3/4" Long Stud, 1" Head Diameter
2. Vendor: McMaster-Carr
3. Part Number: 6091K61
4. Equivalent substitutions allowed

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		TOLERANCES:	CHECKED			
		FRACTIONAL $\pm 1/16$	ENG APPR.			
		ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$	MFG APPR.			
		TWO PLACE DECIMAL $\pm .01$	Q.A.			TITLE: Knob, Round Knurled with threaded Stud McMaster Carr 6091K61
		THREE PLACE DECIMAL $\pm .001$	COMMENTS:			
		INTERPRET GEOMETRIC TOLERANCING PER:				SIZE DWG. NO. REV
		MATERIAL				<b>B</b> FE-00054
		FINISH				SCALE: 1:1 WEIGHT: SHEET 1 OF 1
NEXT ASSY	USED ON	DO NOT SCALE DRAWING				
APPLICATION						

4

3

2

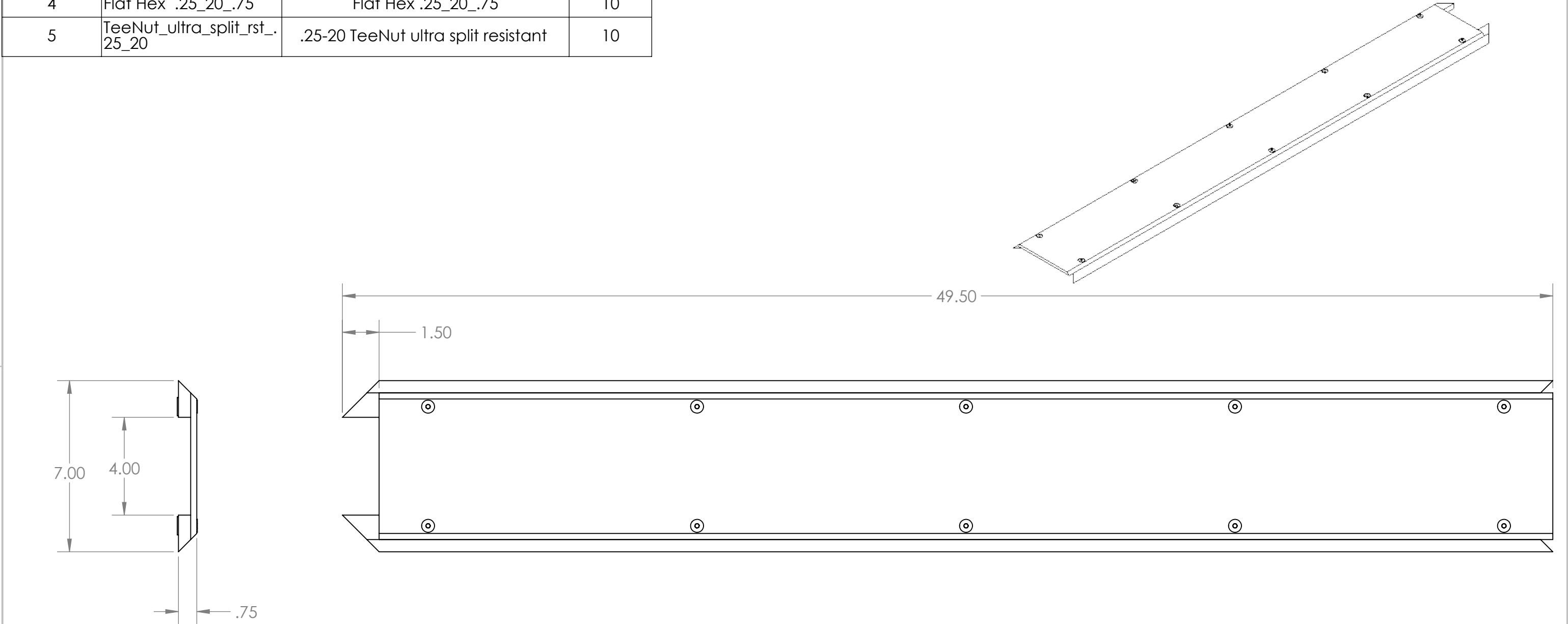
1

A



A

4				3				2				1			
ITEM NO.	PART NUMBER	DESCRIPTION													
1	FE-00301	Side angle left		1											
2	FE-00303	Side angle right		1											
3	FE-00302	Cable protector top		1											
4	Flat Hex .25_20_.75	Flat Hex .25_20_.75		10											
5	TeeNut_ultra_split_rst_.25_20	.25-20 TeeNut ultra split resistant		10											

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	Added sheet 3	1/5/2022	DAF



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			CHECKED			TITLE:  HDPE Cable Protector		
			ENG APPR.					
			MFG APPR.					
			Q.A.					
		INTERPRET GEOMETRIC TOLERANCING PER:	COMMENTS:			SIZE DWG. NO. REV <b>B FE-00300 A</b>		
		MATERIAL						
		FINISH						
NEXT ASSY	USED ON					SCALE: 1:12 WEIGHT: SHEET 1 OF 3		
APPLICATION		DO NOT SCALE DRAWING						

4

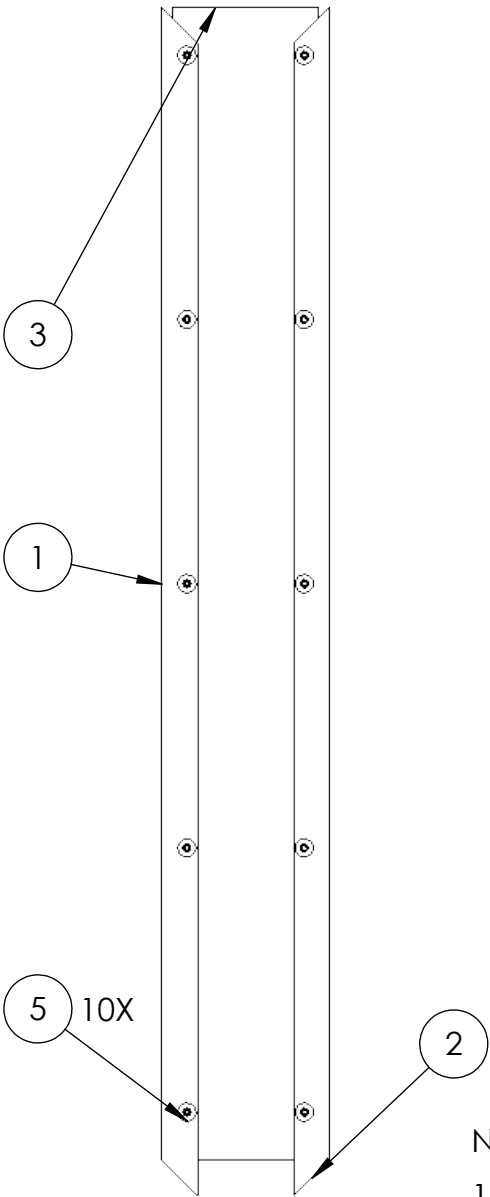
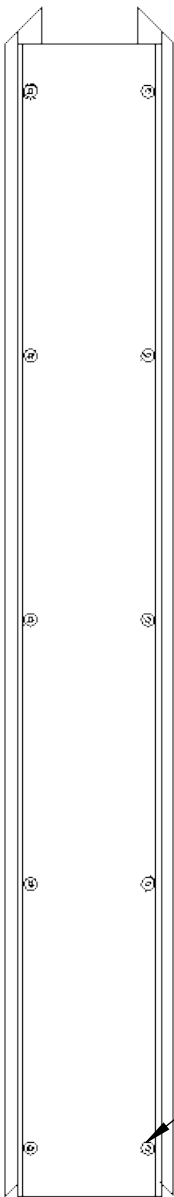
3

2

1

B

B





- Notes:
1. Insert (5) 10X in to the bottom of (1) and (2) .
  2. Attach (3) to (1) an (2) with (4) 10X .

A

A

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	<div></div>		
		DIMENSIONS ARE IN INCHES	DRAWN			TITLE: <div>HDPE Cable Protector</div>		
		TOLERANCES:	CHECKED					
		FRACTIONAL $\pm 1/16$	ENG APPR.					
		ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$	MFG APPR.					
		TWO PLACE DECIMAL $\pm .01$	Q.A.					
		THREE PLACE DECIMAL $\pm .001$	COMMENTS:			SIZE DWG. NO. REV <div>B FE-00300 A</div>		
		INTERPRET GEOMETRIC TOLERANCING PER:						
		MATERIAL				SCALE: 1:12 WEIGHT: SHEET 2 OF 3		
		FINISH						
NEXT ASSY	USED ON							
APPLICATION		DO NOT SCALE DRAWING						

4

3

2

1

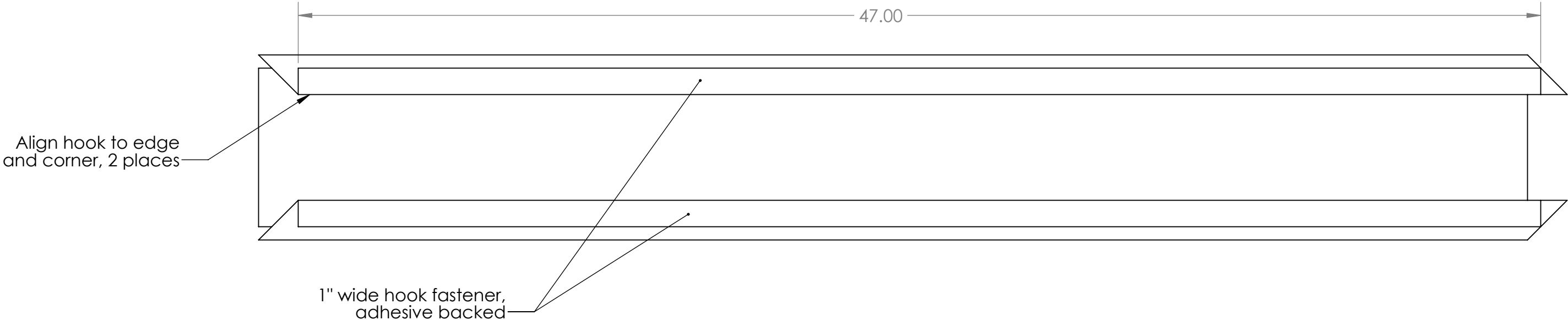
4

3

2

1

Post Manufacturing Instructions





B

B

A

A

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		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .001$	DRAWN			TITLE:  HDPE Cable Protector		
			CHECKED					
			ENG APPR.					
			MFG APPR.					
			Q.A.					
		INTERPRET GEOMETRIC TOLERANCING PER:	COMMENTS:			SIZE DWG. NO. REV <b>B FE-00300 A</b>		
		MATERIAL						
		FINISH						
NEXT ASSY	USED ON							
APPLICATION		DO NOT SCALE DRAWING	SCALE: 1:12					

4

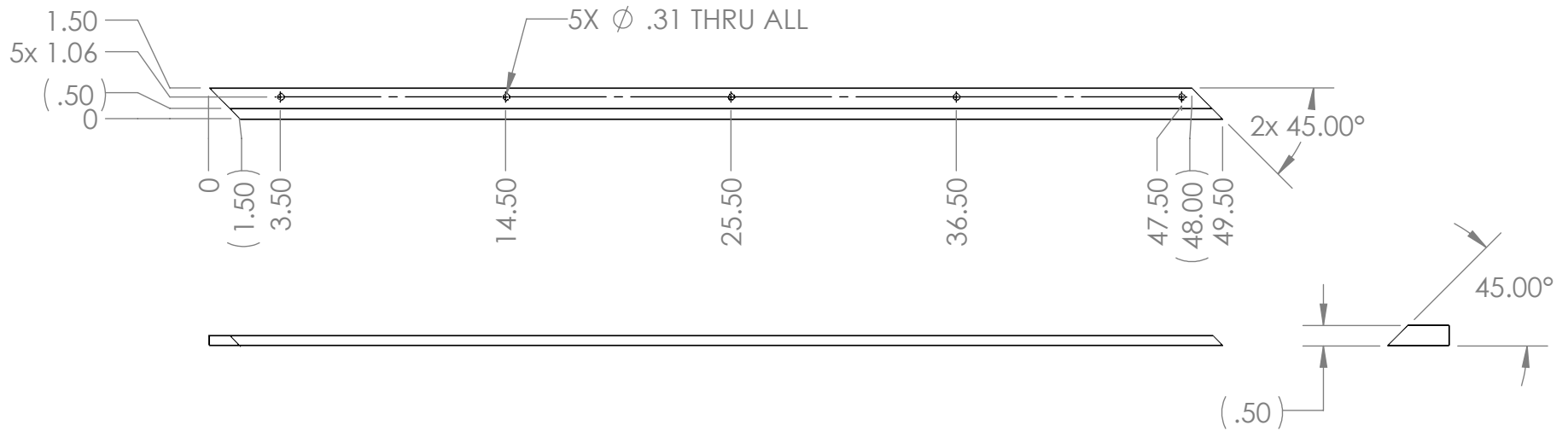
3

2

1

B

B



A

A

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		DIMENSIONS ARE IN INCHES
		TOLERANCES:
		FRACTIONAL $\pm 1/16$
		ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$
		TWO PLACE DECIMAL $\pm .01$
		THREE PLACE DECIMAL $\pm .001$
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL
		HDPE Black
		FINISH
NEXT ASSY	USED ON	
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		



TITLE:  
**Side angle left**

SIZE	DWG. NO.	REV
<b>A</b>	<b>FE-00301</b>	
SCALE: 1:12		WEIGHT:
SHEET 1 OF 1		

2

1



1



SHEET 1 OF 1

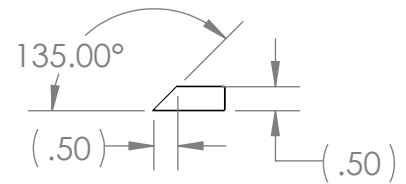
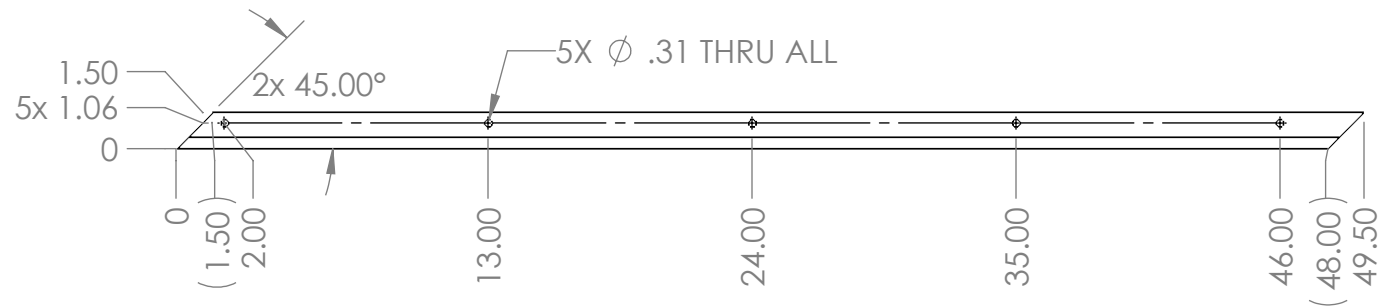
1

A

A

B

B



A

A

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		TOLERANCES:
		FRACTIONAL $\pm 1/16$
		ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$
		TWO PLACE DECIMAL $\pm .01$
		THREE PLACE DECIMAL $\pm .001$
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL
		HDPE Black
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		



**FIRST  
ROBOTICS  
COMPETITION**

**SOLIDWORKS**  
Modeling Solutions Partner

TITLE:

Side angle right

SIZE	DWG. NO.	REV
<b>A</b>	<b>FE-00303</b>	
SCALE: 1:12 WEIGHT:		SHEET 1 OF 1

2

1

4

3

2

1

D

D

C

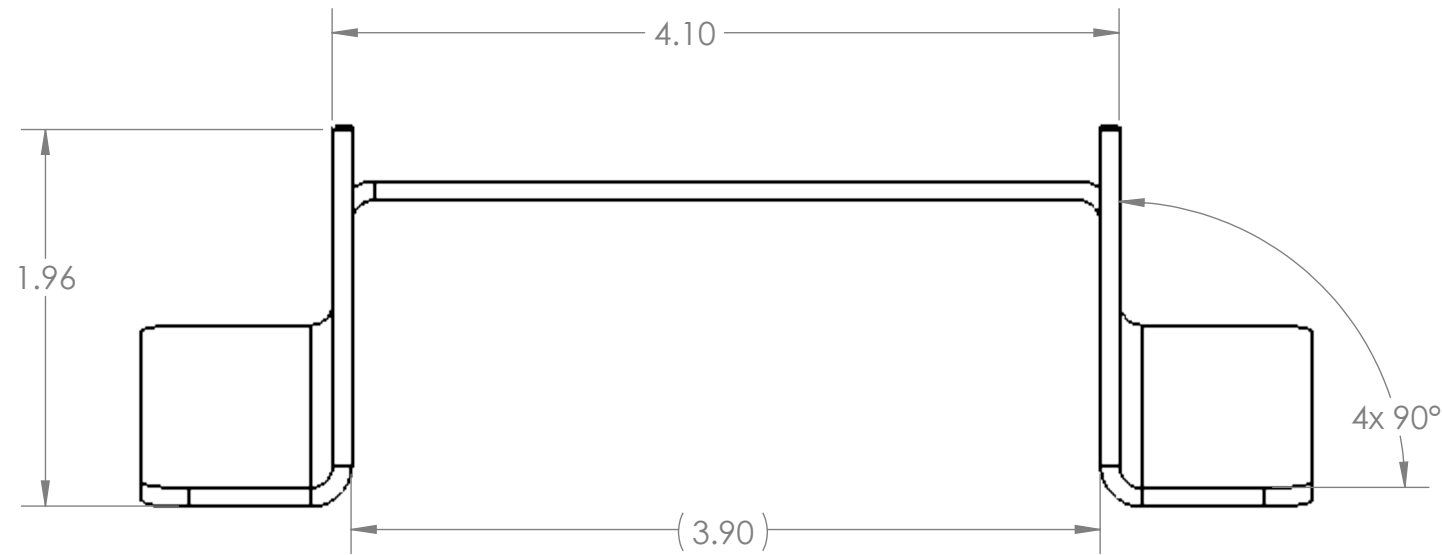
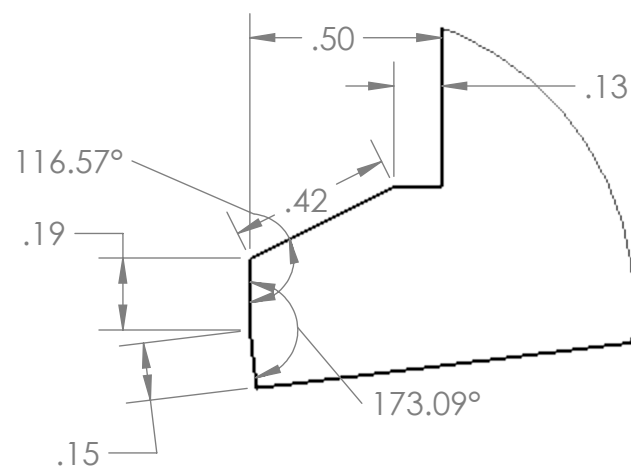
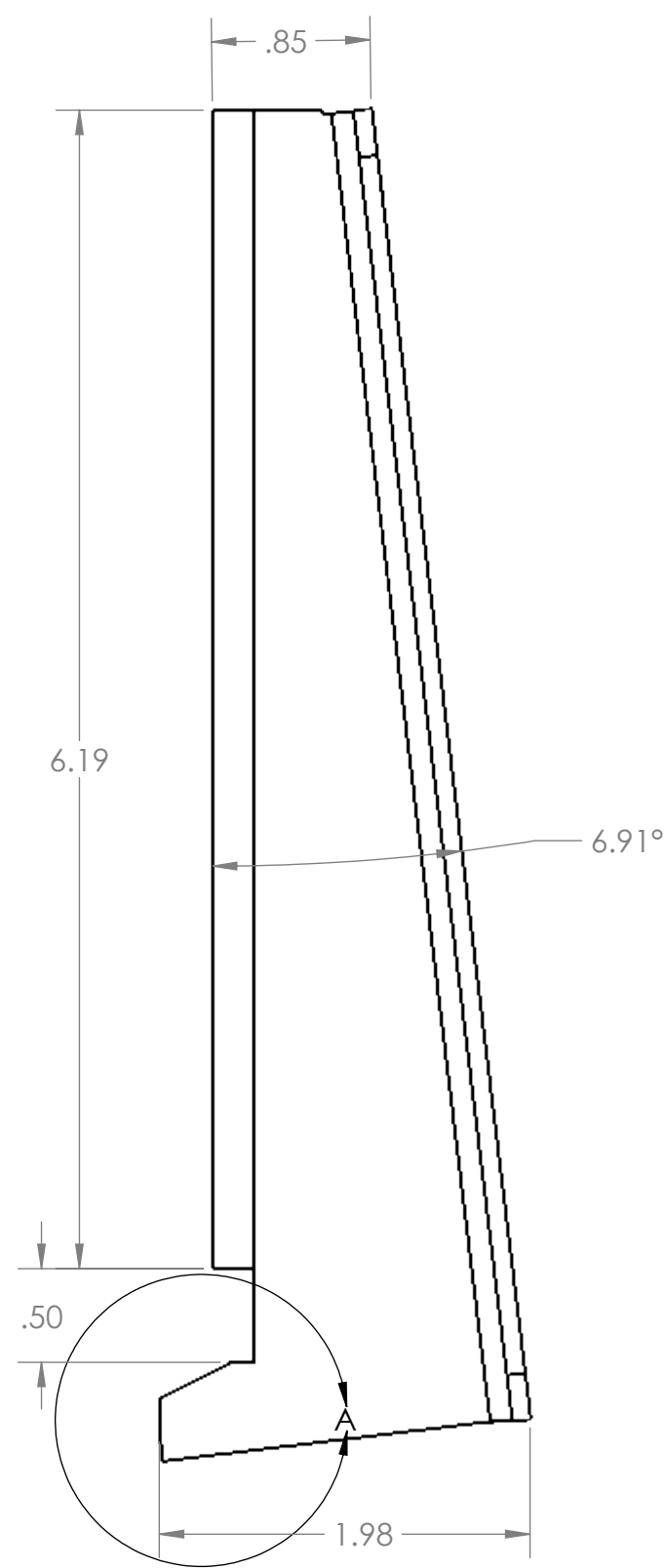
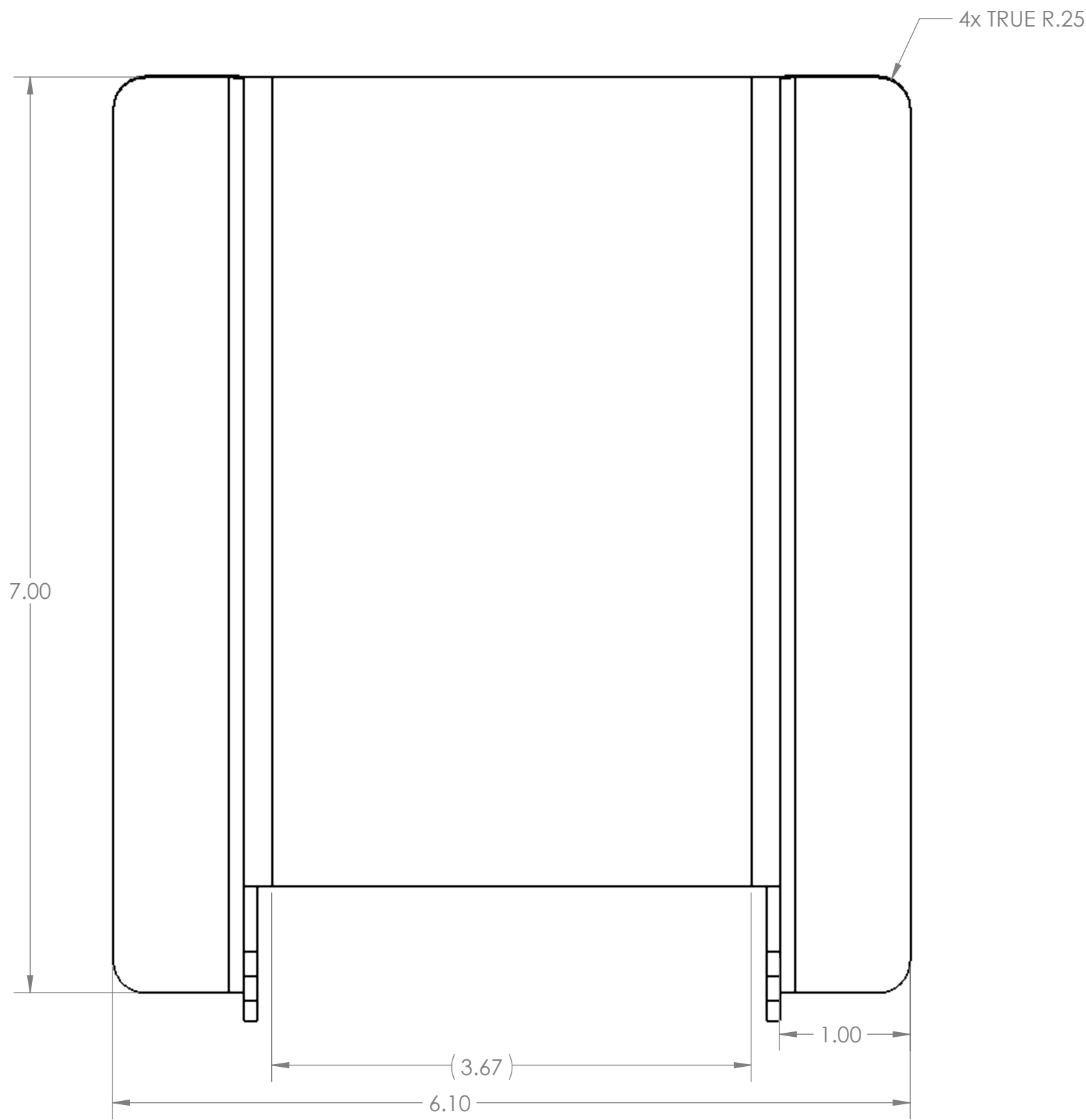
C

B

B

A

A



DETAIL A  
SCALE 2 : 1

UNLESS OTHERWISE SPECIFIED:

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

**MATERIAL/FINISH:**  
12 gau steel podwer coated  
black

DO NOT SCALE DRAWING

BEND

DRAWN

NAME

NW

DATE

7/8/2021

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**COMMENTS:**

REMOVE ALL BURRS AND SHARP  
EDGES.



**FIRST  
ROBOTICS  
COMPETITION**

**3D SOLIDWORKS**  
Modeling Solutions Partner

TITLE:

Cable protector  
exit segment

SIZE

**C**

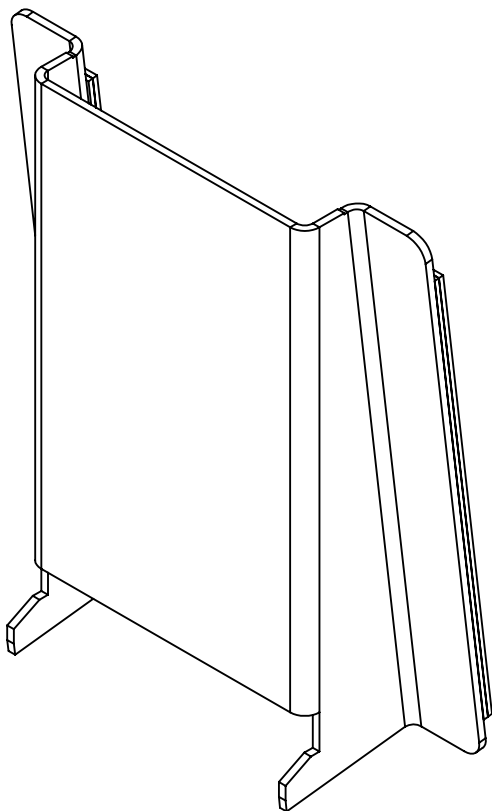
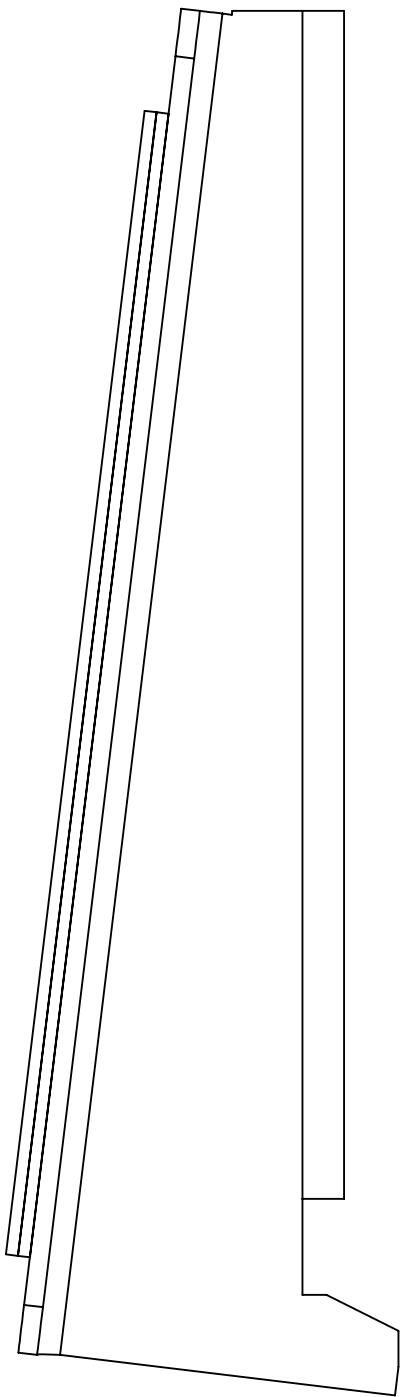
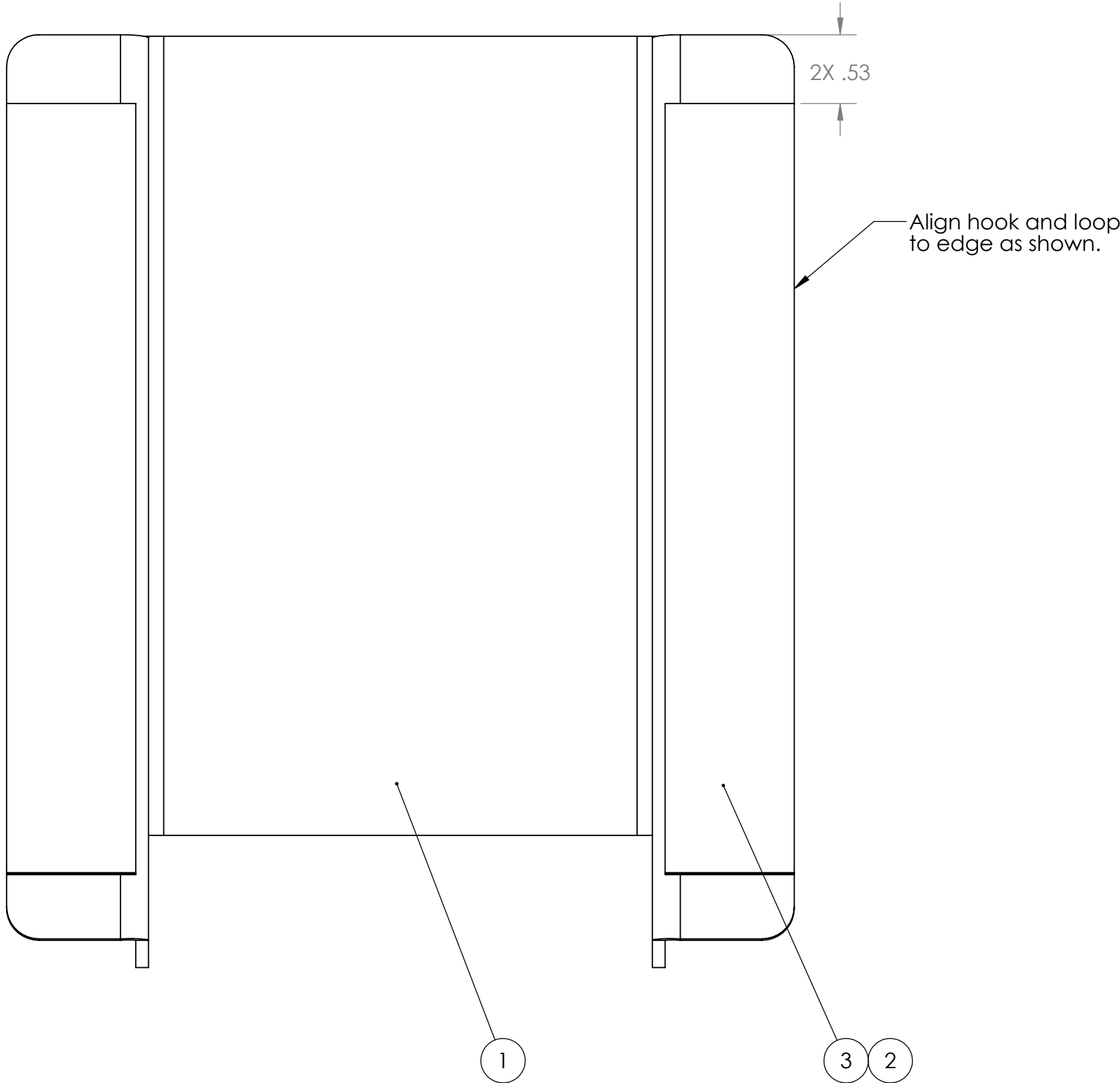
DWG. NO.

FE-00304

REV


SCALE: 1:1

SHEET 1 OF 1



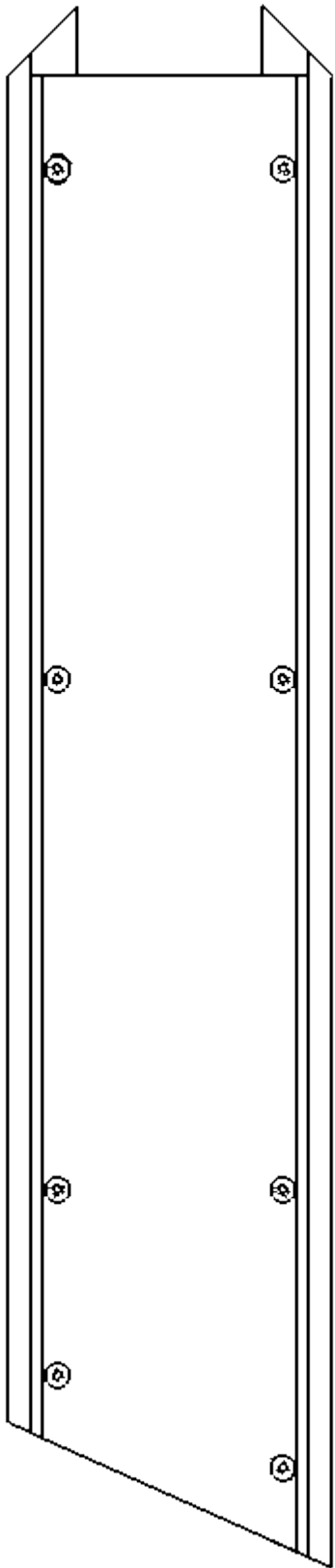
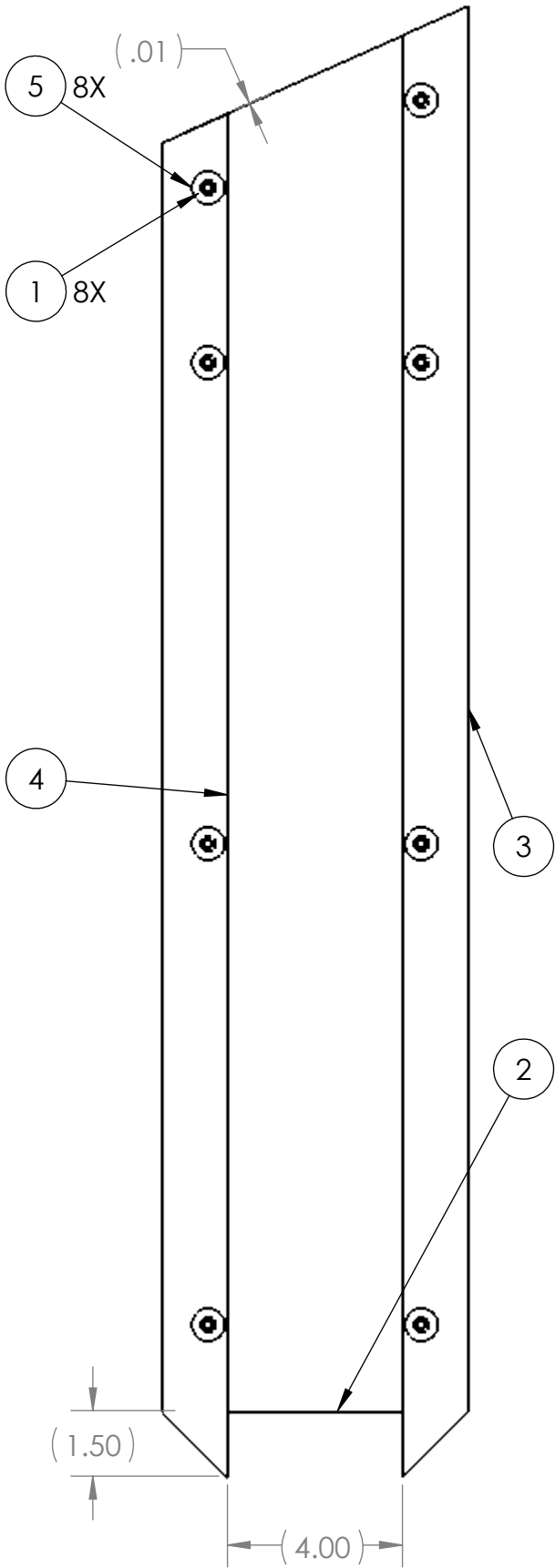
- Assembly Notes:
1. Apply hook fastener to FE-00304.
  2. Apply loop fastener to the hook fastener, but leave the plastic backing on the adhesive until assembly on the field

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FE-00304	Cable protector exit segment	1
2	Hook_1_6	1" x 6" Hook, Adhesive Backed	2
3	Loop_1_6	1" x 6" Loop, Adhesive Backed	2



UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/2$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .50$  <b>MATERIAL/FINISH:</b>     <b>DO NOT SCALE DRAWING</b>	FIELD	NAME	DATE	 TITLE: Cable protector exit segment with hook	
	DRAWN	DF	1/5/2022		
	<b>PROPRIETARY AND CONFIDENTIAL</b>  THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			SIZE	DWG. NO.
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			<b>C</b>	FE-00305
SCALE: 1:1		SHEET 1 OF 1			

4			
ITEM NO.	PART NUMBER	DESCRIPTION	
1	Flat Hex .25_20_.75	Flat Hex .25_20_.75	8
2	GE-22601	Cable protector top angled	1
3	GE-22602	Cable protector side right angled	1
4	GE-22603	Cable protector side left angled	1
5	TeeNut_ultra_split_rst_.25_20	.25-20 TeeNut ultra split resistant	8

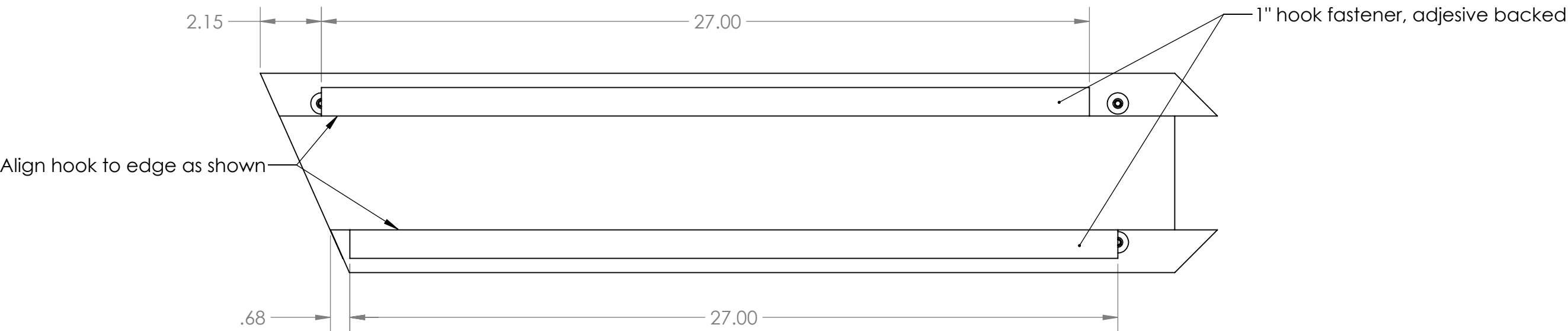
1				
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	Added sheet 2	1/5/2022	DAF





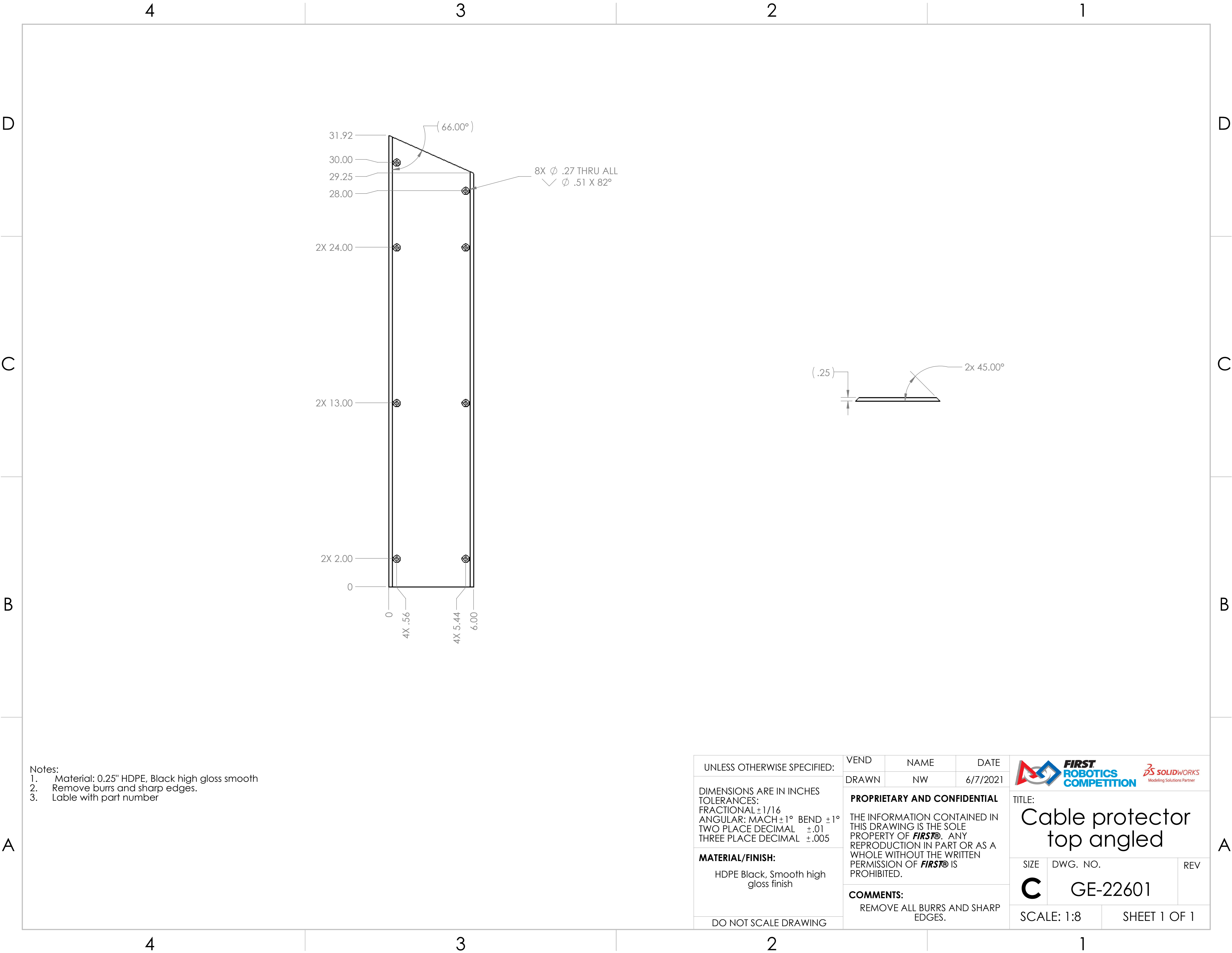
- Notes:
- Insert 5 8X to 4 and 3 .
  - Attach 2 to 4 and 3 with 1 8X .

UNLESS OTHERWISE SPECIFIED:	VEND	NAME	DATE	<div></div> <div>TITLE: <h1>Angled cable protector</h1></div> <div><div>SIZE</div><div>DWG. NO.</div><div>REV</div><div>C</div><div>GE-22600</div><div>A</div></div> <div>SCALE: 1:4</div> <div>SHEET 1 OF 2</div>
	DRAWN	NW	7/29/2021	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005	PROPRIETARY AND CONFIDENTIAL			
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			
	COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			
MATERIAL/FINISH:				
DO NOT SCALE DRAWING				



# Post Manufaturing Instructions



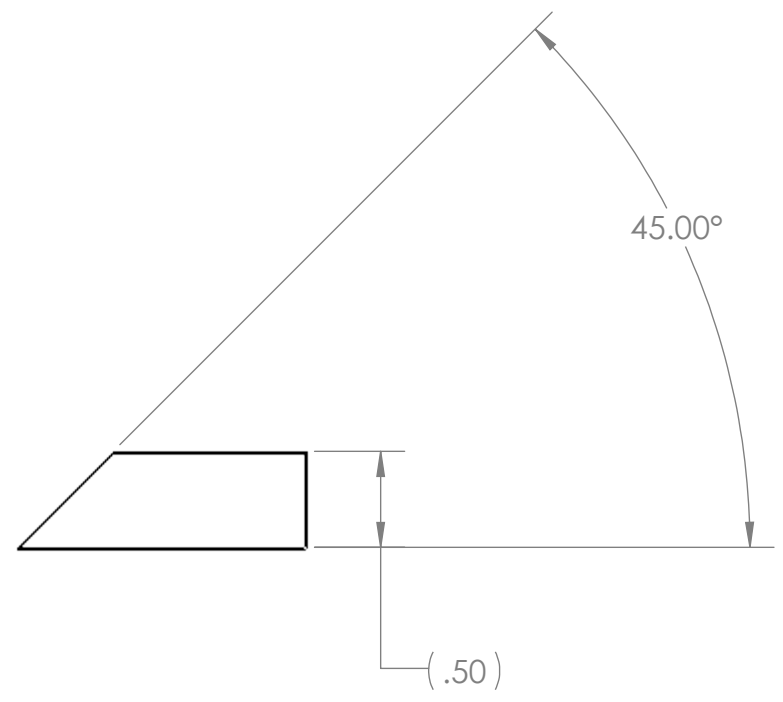
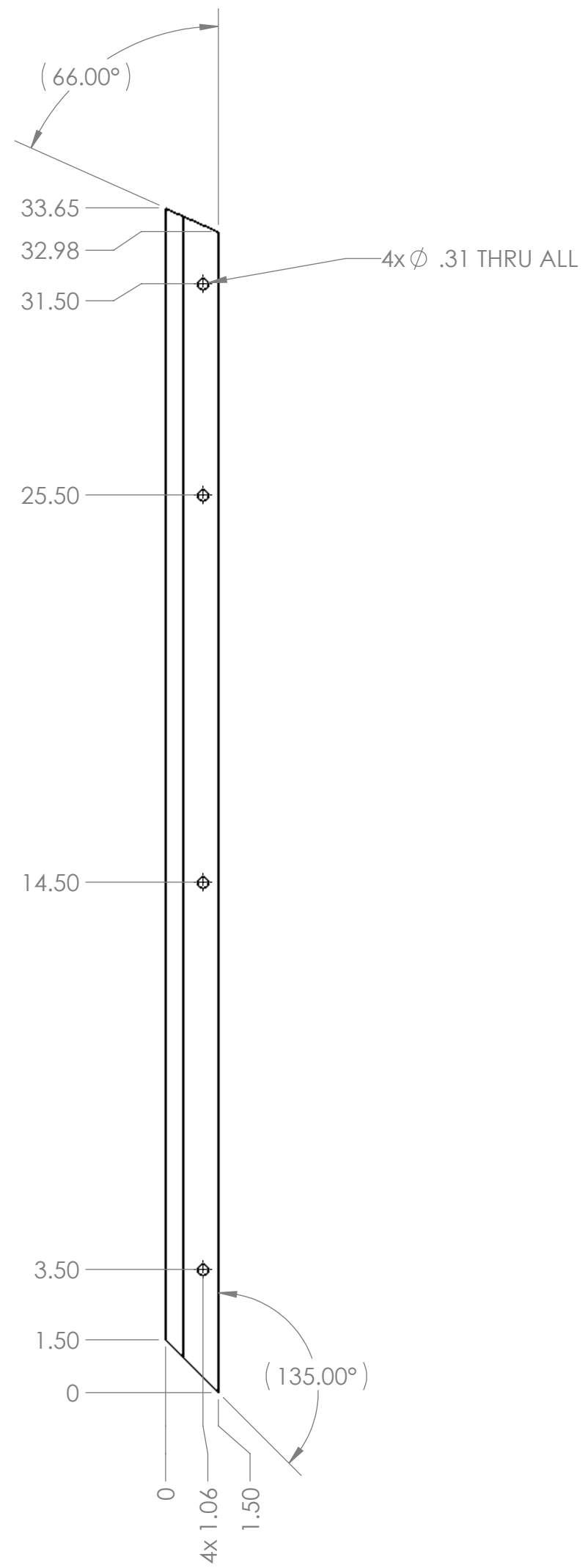
UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005  MATERIAL/FINISH:     DO NOT SCALE DRAWING	VEND	NAME	DATE	<div></div> <div>TITLE: <b>Angled cable protector</b></div> <div><div>SIZE</div><div>DWG. NO.</div><div>REV</div><div><b>C</b></div><div>GE-22600</div><div>A</div></div> <div>SCALE: 1:4</div> <div>SHEET 2 OF 2</div>		
	DRAWN	NW	7/29/2021			
	PROPRIETARY AND CONFIDENTIAL					
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.				COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.		





- Notes:
- 1. Material: 0.25" HDPE, Black high gloss smooth
  - 2. Remove burrs and sharp edges.
  - 3. Lable with part number

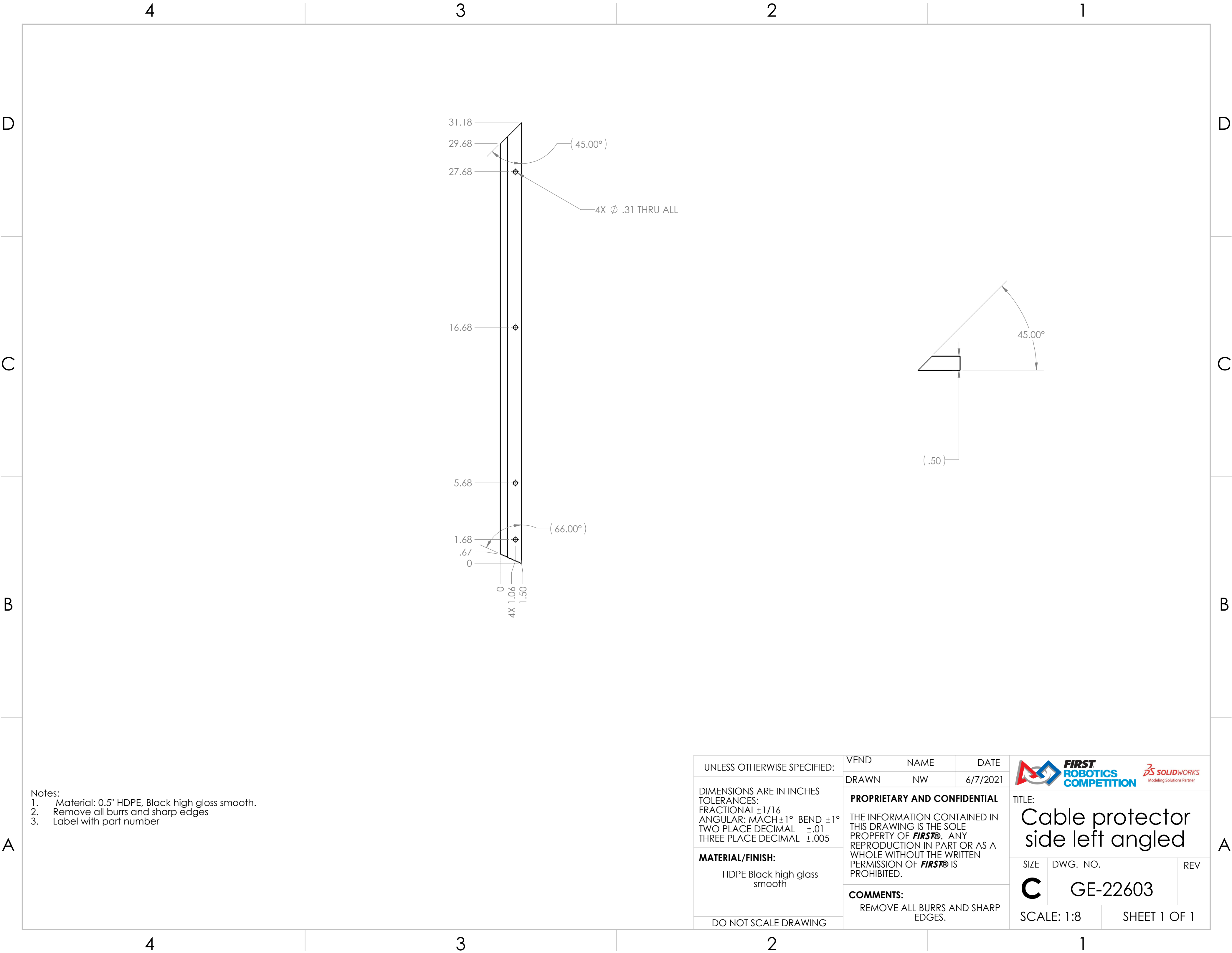
UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005  <b>MATERIAL/FINISH:</b>  HDPE Black, Smooth high gloss finish  DO NOT SCALE DRAWING	VEND	NAME	DATE	<div></div> <div>TITLE: Cable protector top angled</div>		
	DRAWN	NW	6/7/2021			
	<b>PROPRIETARY AND CONFIDENTIAL</b>  THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			SIZE	DWG. NO.	REV
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			<b>C</b>	GE-22601	
		SCALE: 1:8		SHEET 1 OF 1		







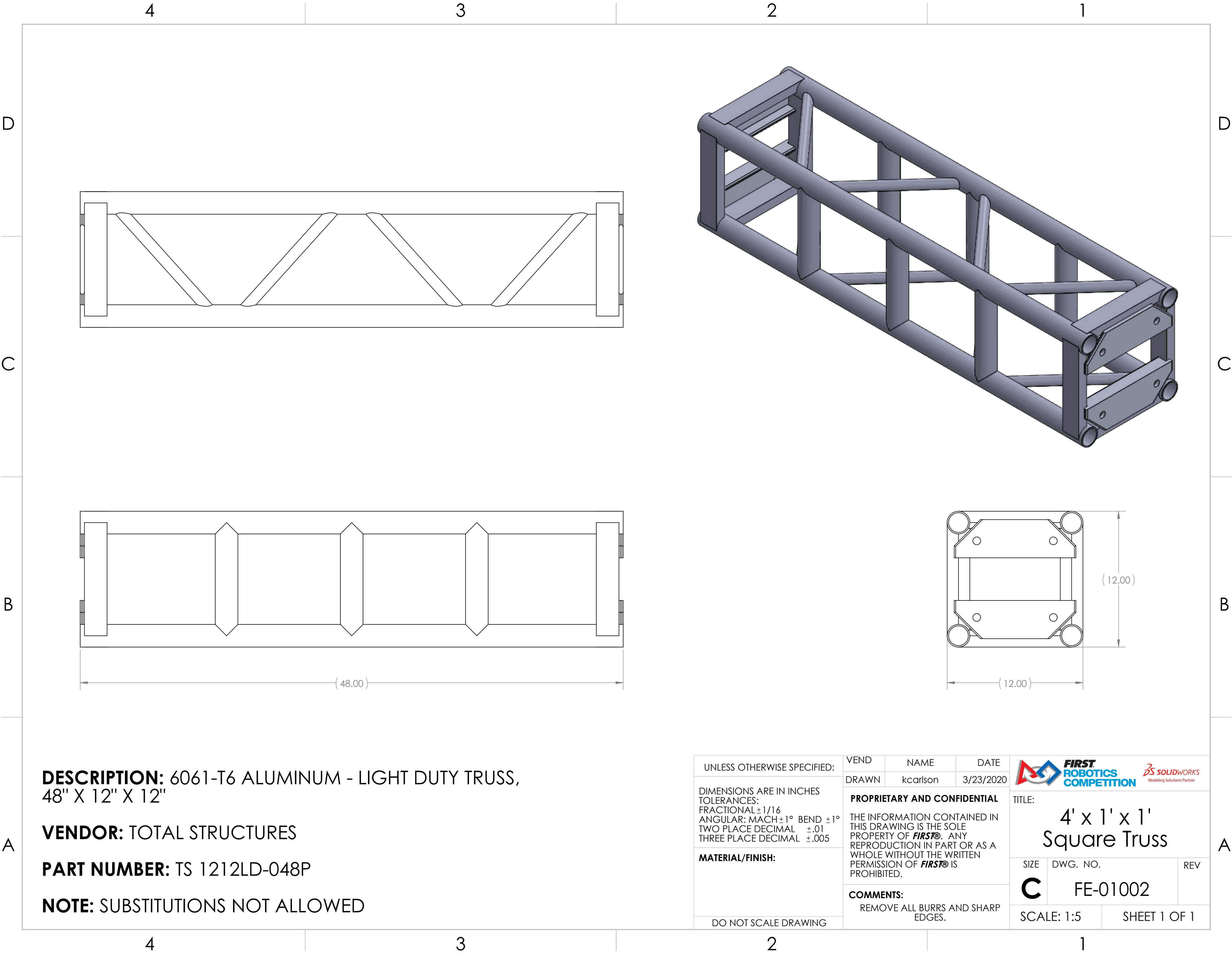
Notes:  
1. Material: 0.5" HDPE,Black high gloss smooth.  
2. Remove all burrs and sharp edges.  
3. Label with part number.

UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005  <b>MATERIAL/FINISH:</b>  HDPE Black high gloss smooth  DO NOT SCALE DRAWING	VEND	NAME	DATE	<div></div> <div>TITLE: <h1>Cable protector side right angled</h1></div>		
	DRAWN	NW	6/8/2021			
	<b>PROPRIETARY AND CONFIDENTIAL</b>  THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			SIZE	DWG. NO.	REV
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			<b>C</b>	GE-22602	
			SCALE: 1:8		SHEET 1 OF 1	



Notes:  
1. Material: 0.5" HDPE, Black high gloss smooth.  
2. Remove all burrs and sharp edges  
3. Label with part number

UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005  <b>MATERIAL/FINISH:</b>  HDPE Black high glass smooth  DO NOT SCALE DRAWING	VEND	NAME	DATE	<div></div> <div>TITLE: Cable protector side left angled</div>		
	DRAWN	NW	6/7/2021			
	<b>PROPRIETARY AND CONFIDENTIAL</b>  THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.  <b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.					
				SIZE	DWG. NO.	REV
				C	GE-22603	
				SCALE: 1:8		SHEET 1 OF 1





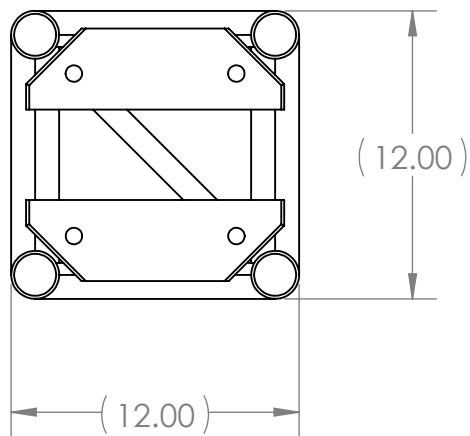
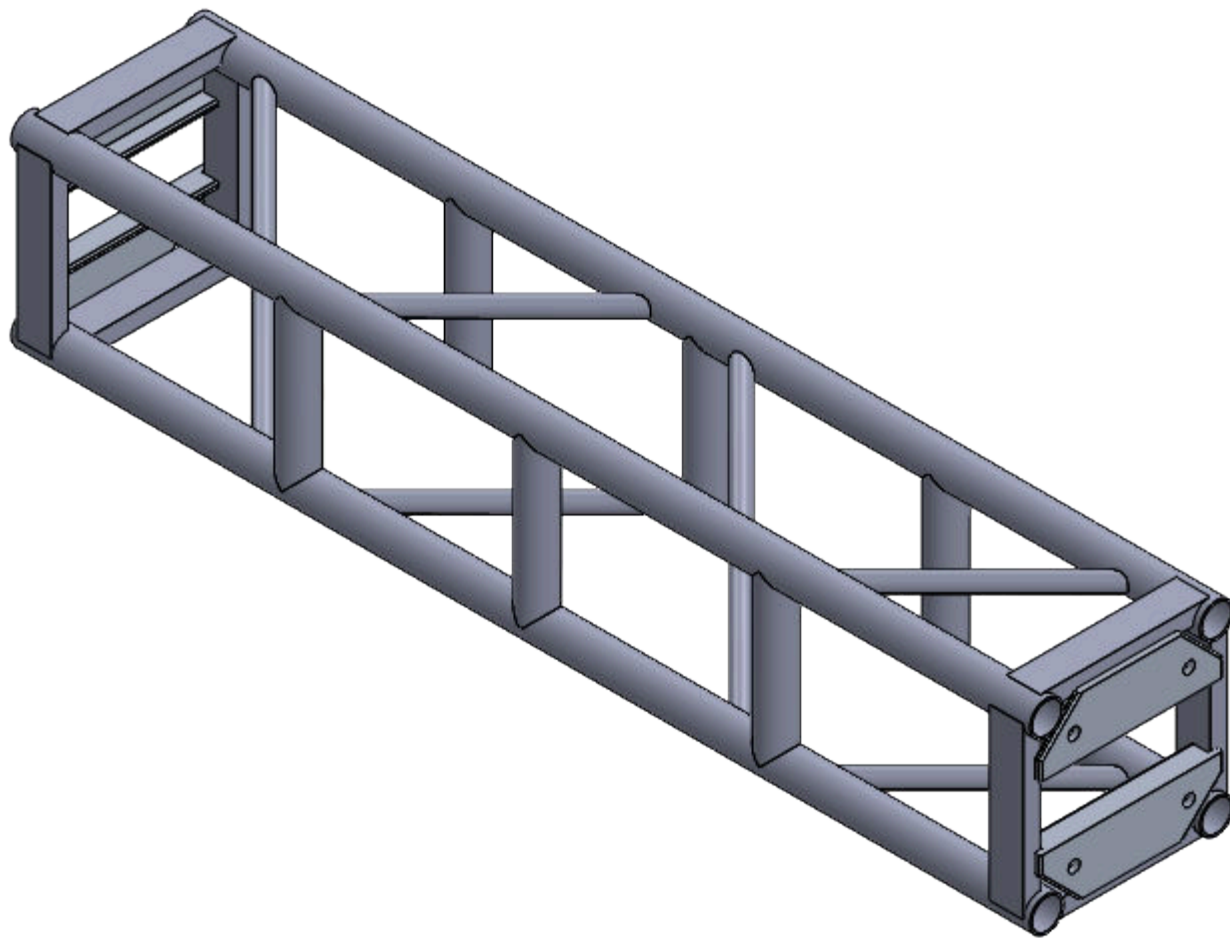
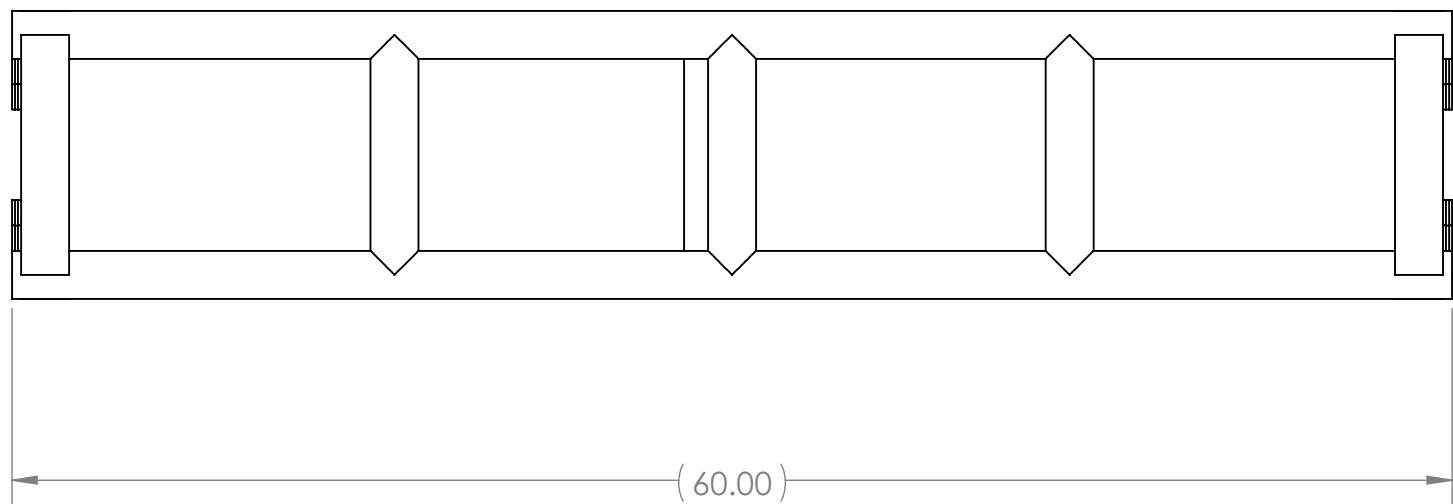
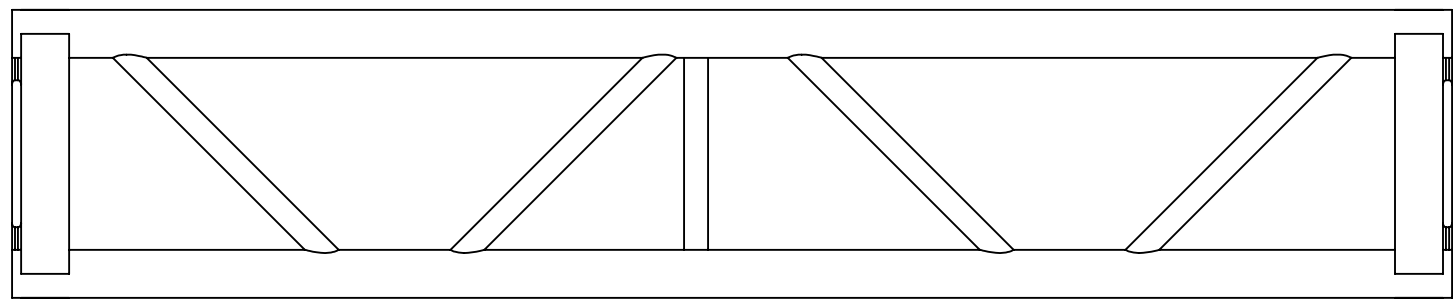
**DESCRIPTION:** 6061-T6 ALUMINUM - LIGHT DUTY TRUSS,  
48" X 12" X 12"

**VENDOR:** TOTAL STRUCTURES

**PART NUMBER:** TS 1212LD-048P

**NOTE:** SUBSTITUTIONS NOT ALLOWED

UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005  <b>MATERIAL/FINISH:</b>    DO NOT SCALE DRAWING	VEND		NAME		DATE		 	
	DRAWN		kcarlson		3/23/2020			
	<b>PROPRIETARY AND CONFIDENTIAL</b>  THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.						TITLE:  4' x 1' x 1'  Square Truss	
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.							
		SIZE		DWG. NO.		REV		
		C		FE-01002				
SCALE: 1:5				SHEET 1 OF 1				





**DESCRIPTION:** 6061-T6 ALUMINUM - LIGHT DUTY TRUSS,  
60" X 12" X 12"

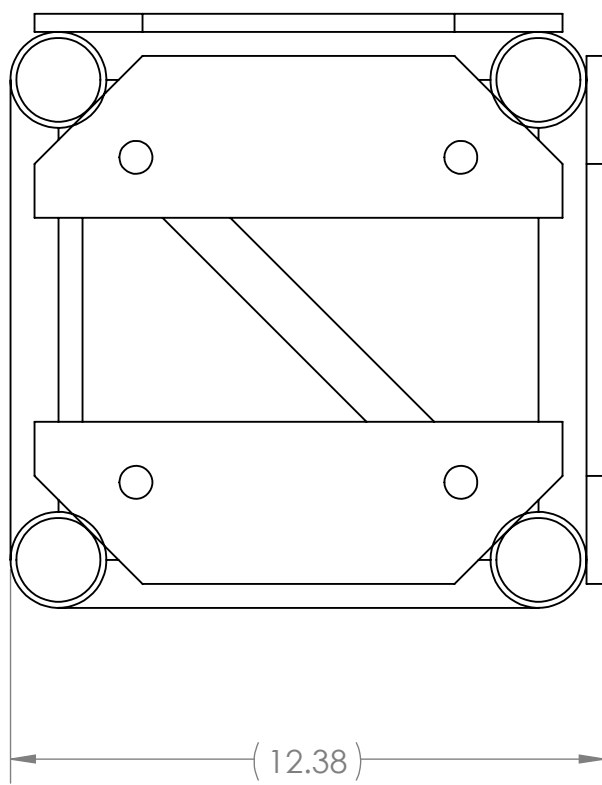
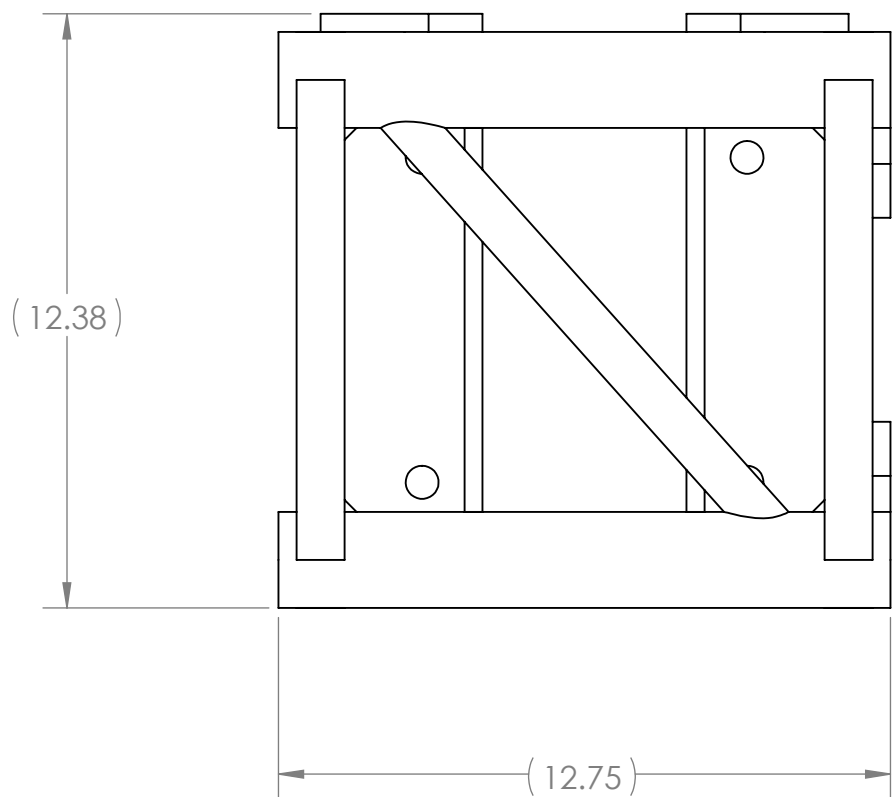
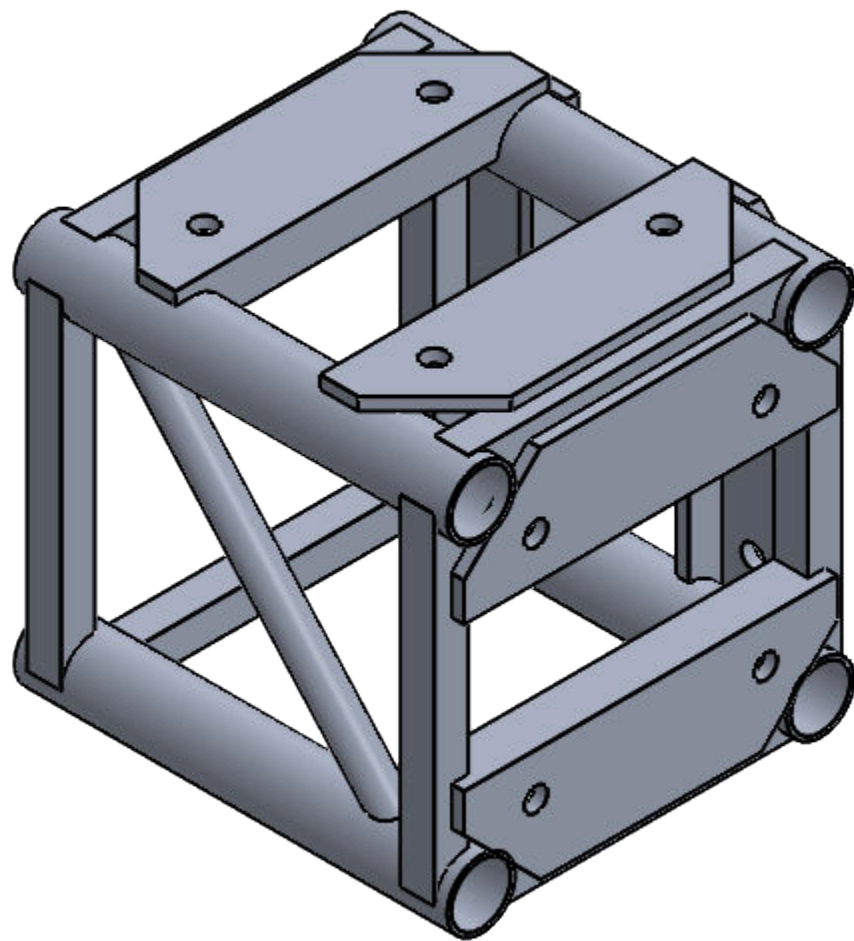
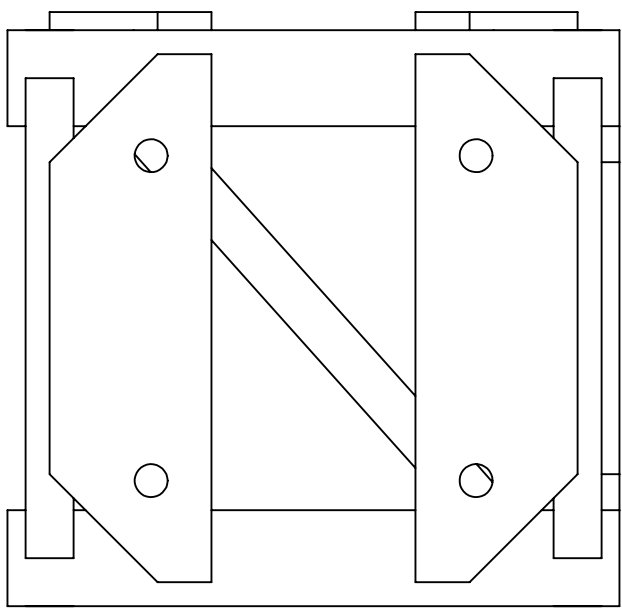
**VENDOR:** TOTAL STRUCTURES

**PART NUMBER:** TS 1212LD-060P

**NOTE:** SUBSTITUTIONS NOT ALLOWED

UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .005$  <b>MATERIAL/FINISH:</b>     DO NOT SCALE DRAWING	VEND	NAME	DATE	  TITLE: <b>5' x 1' x 1'</b> <b>Square Truss</b>	
	DRAWN	kcarlson	3/23/2020		
	<b>PROPRIETARY AND CONFIDENTIAL</b>  THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST</b> IS PROHIBITED.			SIZE	DWG. NO.
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			<b>C</b>	FE-01003
SCALE: 1:8		SHEET 1 OF 1			







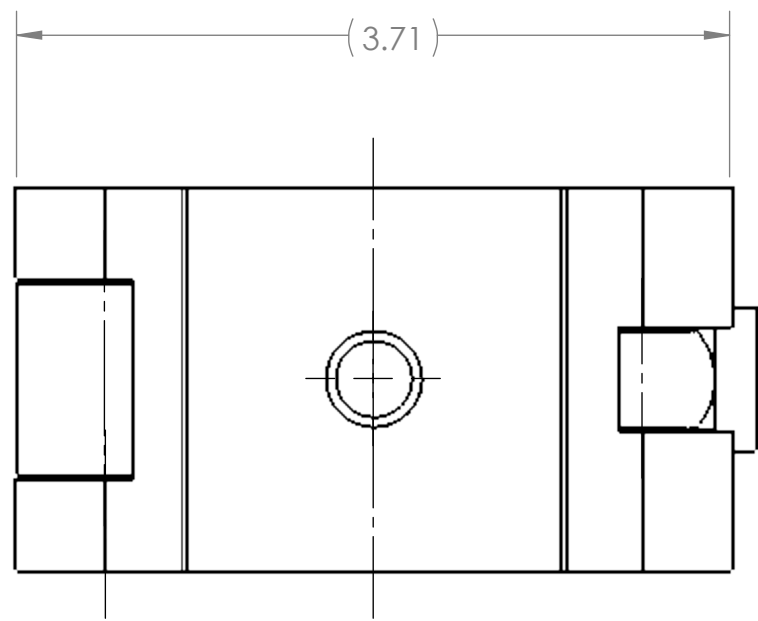
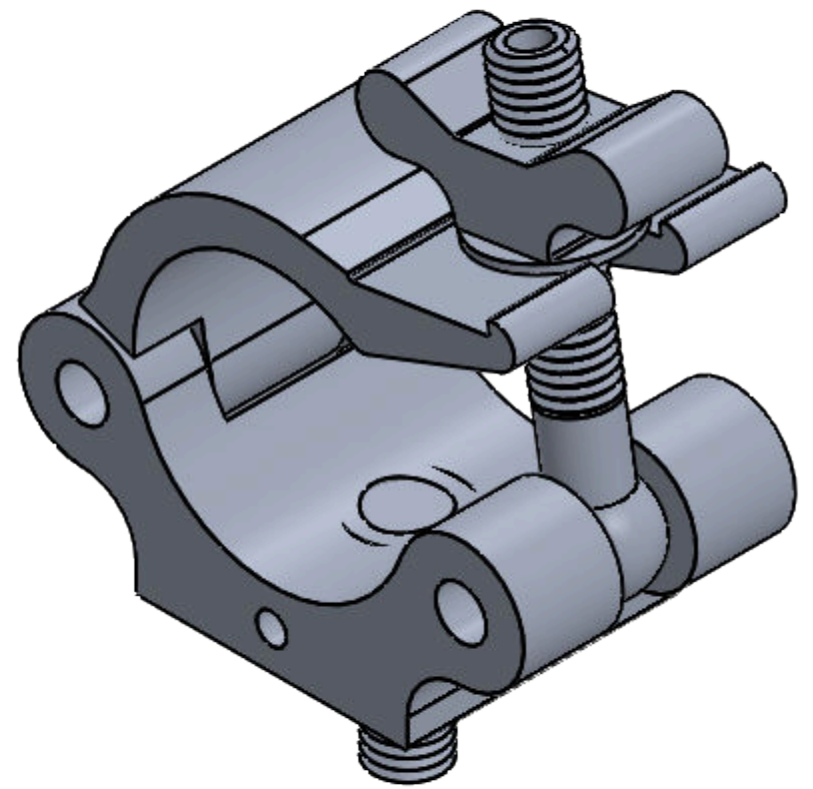
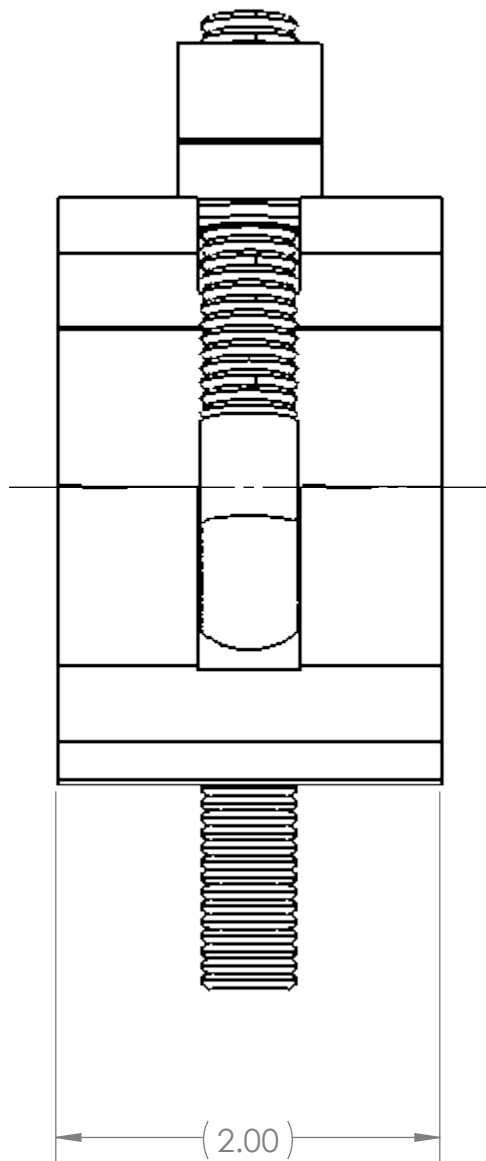
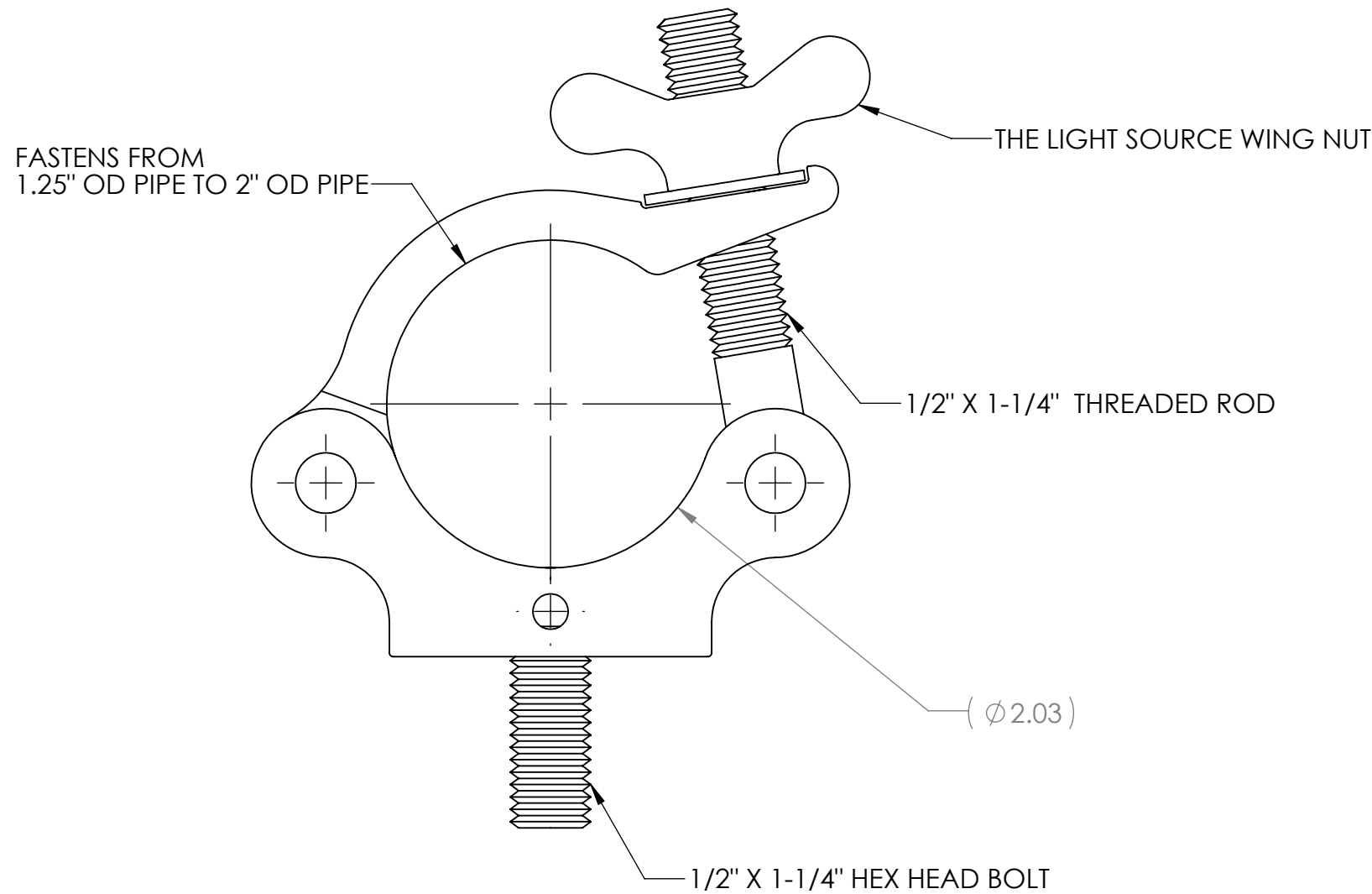
**DESCRIPTION:** 6061-T6 ALUMINUM - LIGHT DUTY TRUSS,  
3-SIDED CORNER BLOCK

**VENDOR:** TOTAL STRUCTURES

**PART NUMBER:** TS 1212LD-C3P

**NOTE:** SUBSTITUTIONS NOT ALLOWED

UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .005$  <b>MATERIAL/FINISH:</b>          DO NOT SCALE DRAWING	VEND	NAME	DATE	<div><div></div><div>TITLE: <b>3 Way Corner Block</b></div></div>	
	DRAWN	kcarlson	3/23/2020		
	<b>PROPRIETARY AND CONFIDENTIAL</b>  THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			SIZE	DWG. NO.
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			<b>C</b>	FE-01012
SCALE: 1:4		SHEET 1 OF 1			





**DESCRIPTION:** CHEESE BOROUGH FOR TRUSS - MLM MEGA COUPLER, SILVER

**VENDOR:** TOTAL STRUCTURES VIA THE LIGHT SOURCE

**PART NUMBER:** MLM MEGA COUPLER

**NOTE:** SUBSTITUTIONS NOT ALLOWED

UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005  <b>MATERIAL/FINISH:</b>   DO NOT SCALE DRAWING	VEND	NAME	DATE	 	
	DRAWN	kcarlson	3/23/2020		
	<b>PROPRIETARY AND CONFIDENTIAL</b>  THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			TITLE:  Cheeseborough for Truss _ Single	
	<b>COMMENTS:</b>  REMOVE ALL BURRS AND SHARP EDGES.			SIZE <b>C</b>	DWG. NO.  FE-01016
			SCALE: 1:1		SHEET 1 OF 1