

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TE-24301	Speaker Front Frame	1
2	TE-24302	Speaker Back Frame	1
3	TE-24307	Lower Side Wall	2
4	TE-24308	Floor Beam	2
5	TE-24309	April Tag Panel	1
6	TE-24310	Speaker Top Assembly	1
7	TE-24330	Subwoofer Assembly	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  $\pm .13$   
THREE PLACE DECIMAL  $\pm .125$

MATERIAL/FINISH:

DO NOT SCALE DRAWING

TEAM	NAME	DATE
DRAWN	JO	12/11/2023

PROPRIETARY AND CONFIDENTIAL

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COMMENTS:

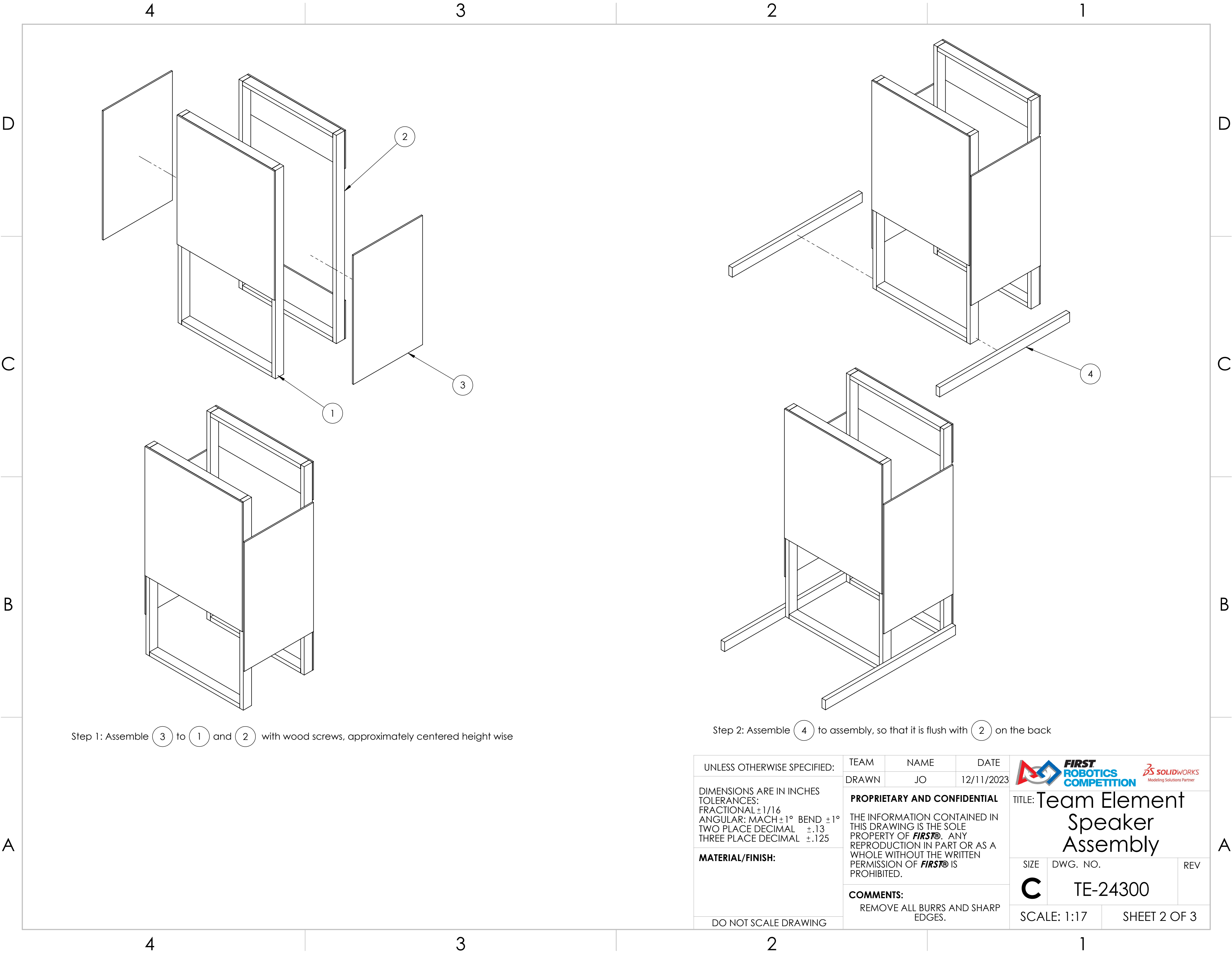
REMOVE ALL BURRS AND SHARP EDGES.



TITLE: Team Element  
Speaker  
Assembly



SIZE	DWG. NO.	REV
C	TE-24300	

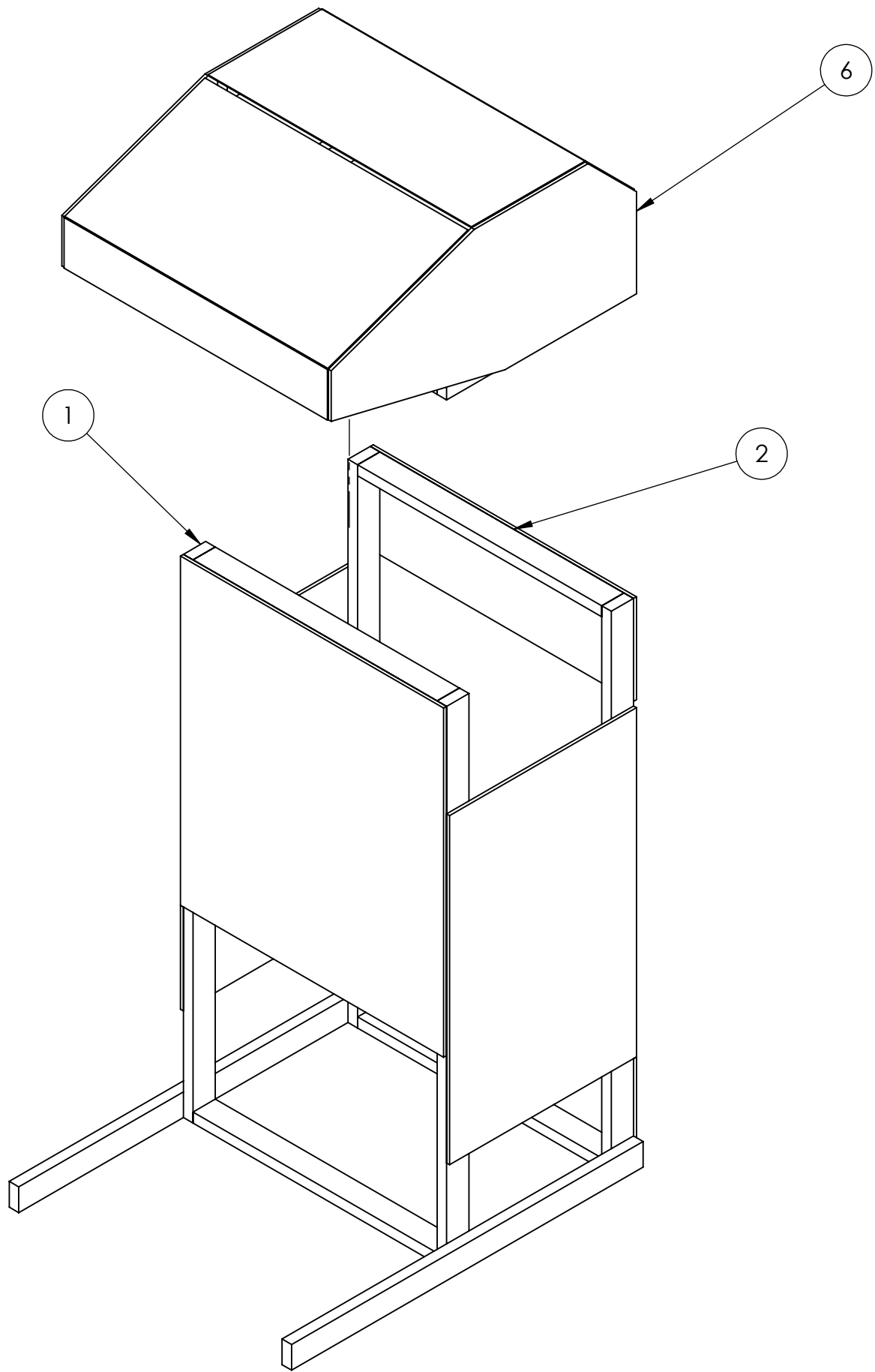
SCALE: 1:10      SHEET 1 OF 3



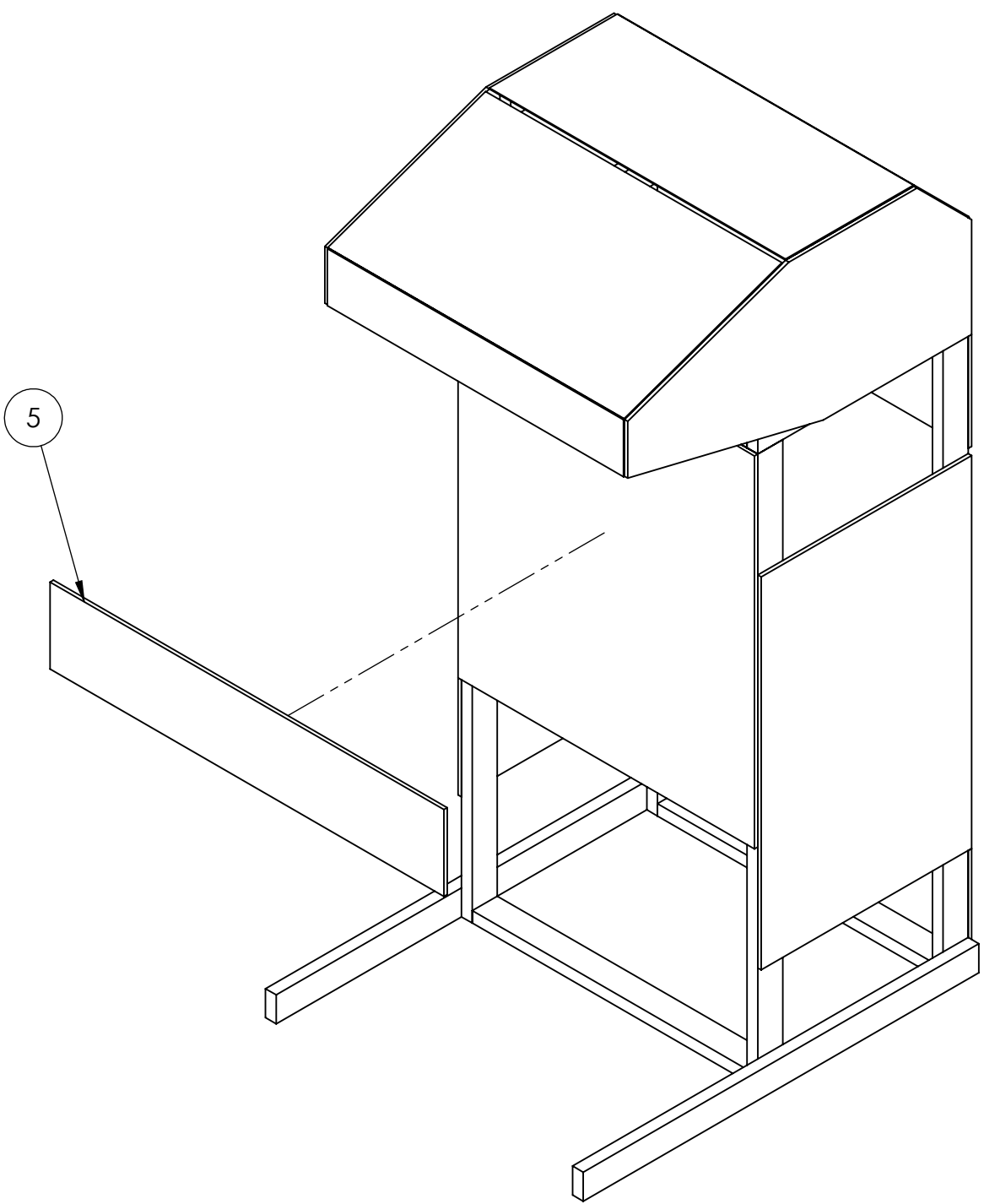
Step 1: Assemble (3) to (1) and (2) with wood screws, approximately centered height wise

Step 2: Assemble (4) to assembly, so that it is flush with (2) on the back

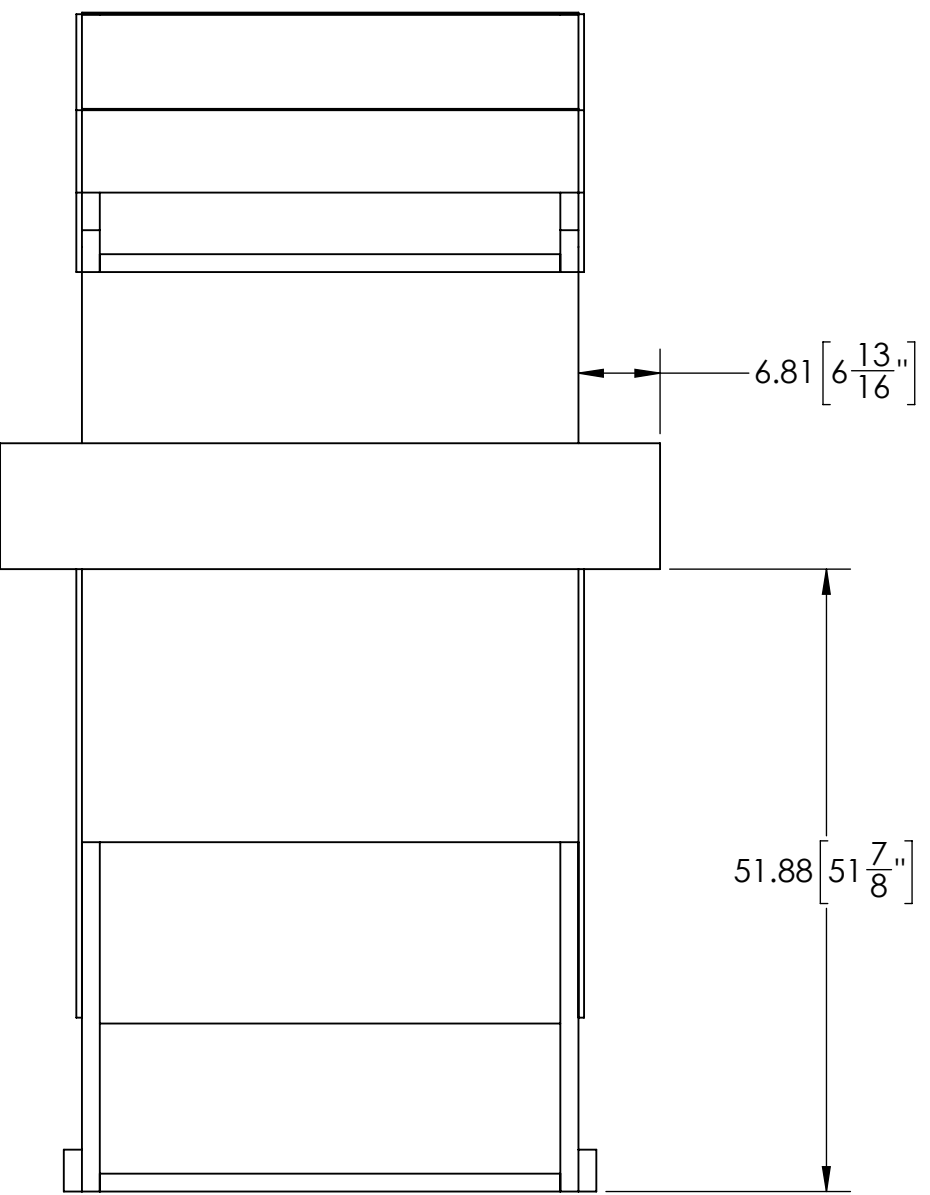
UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$  <b>MATERIAL/FINISH:</b>     <b>DO NOT SCALE DRAWING</b>	TEAM	NAME	DATE	 	
	DRAWN	JO	12/11/2023		
	<b>PROPRIETARY 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: Team Element Speaker Assembly	
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			SIZE <b>C</b>	DWG. NO. TE-24300
		SCALE: 1:17		SHEET 2 OF 3	





Step 3: Assemble (6) on the top of the assembly with either wood screws or bolts (holes will need to be added for bolts)  
The crossbars on (6) should line up with the top beams on (1) and (2)

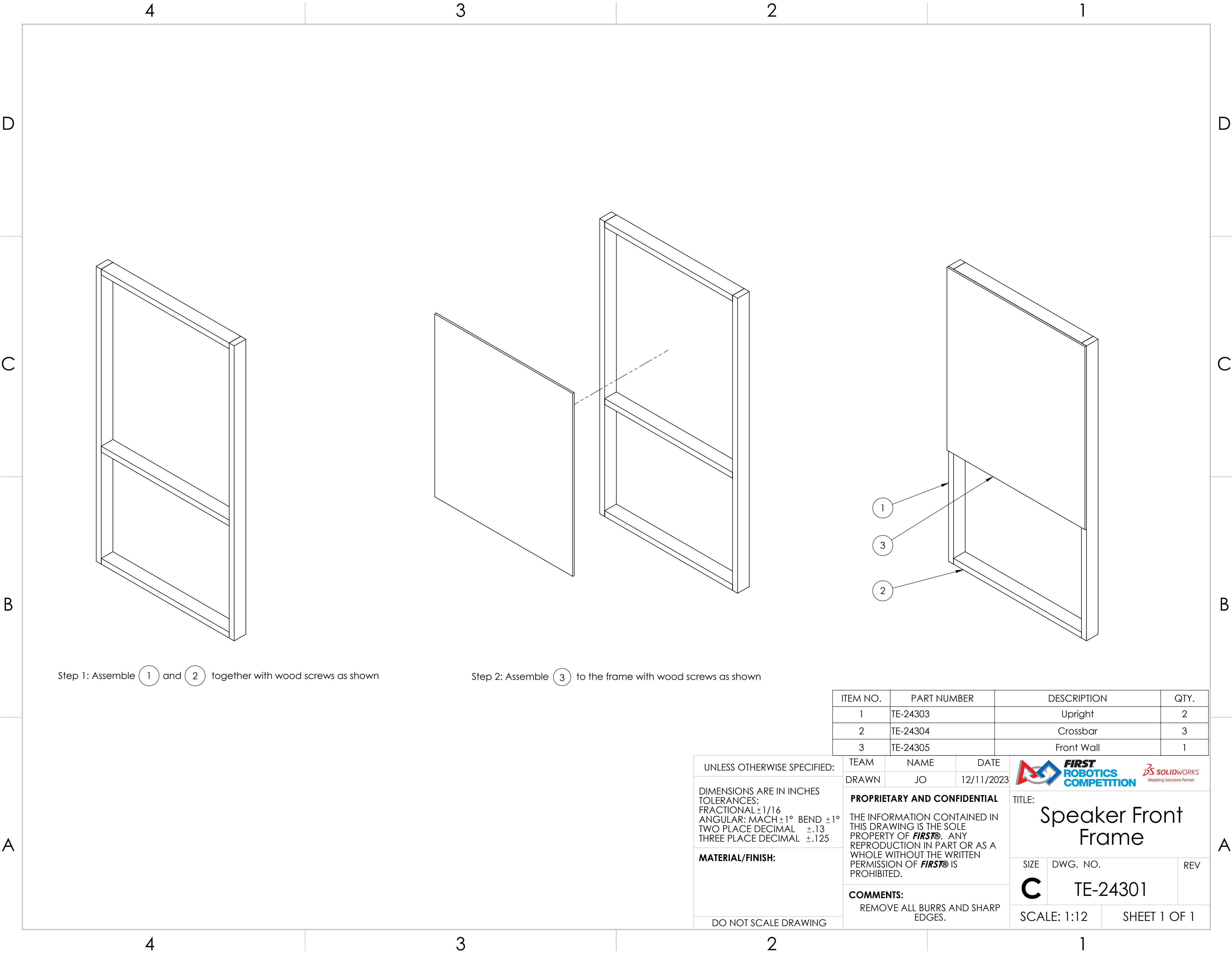


Step 4: Attach (5) to the assembly with wood screws as shown above. This part is for attaching printouts of April Tags



Step 5: Slide TE-24330 into place, as shown on front page



UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE	<div> <b>FIRST ROBOTICS COMPETITION</b></div> <div> <b>SOLIDWORKS</b> Modeling Solutions Partner</div>	
	DRAWN	JO	12/11/2023		
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	<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: Team Element Speaker Assembly	
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			SIZE	DWG. NO.
C				TE-24300	
DO NOT SCALE DRAWING				SCALE: 1:16	SHEET 3 OF 3



Step 1: Assemble 1 and 2 together with wood screws as shown

Step 2: Assemble 3 to the frame with wood screws as shown

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TE-24303	Upright	2
2	TE-24304	Crossbar	3
3	TE-24305	Front Wall	1

UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE	<div></div>		
	DRAWN	JO	12/11/2023			
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	<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:  Speaker Front Frame		
	<b>MATERIAL/FINISH:</b>			SIZE	DWG. NO.	REV
DO NOT SCALE DRAWING	<b>COMMENTS:</b>  REMOVE ALL BURRS AND SHARP EDGES.			C	TE-24301	
				SCALE: 1:12		SHEET 1 OF 1

4

3

2

1

D

D

C

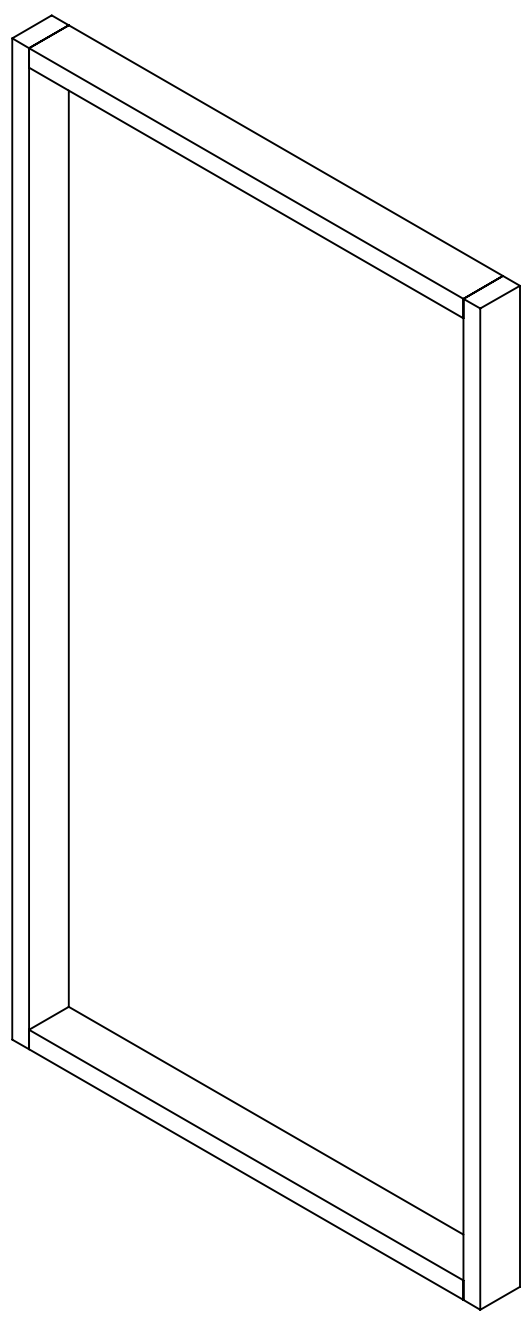
C

B

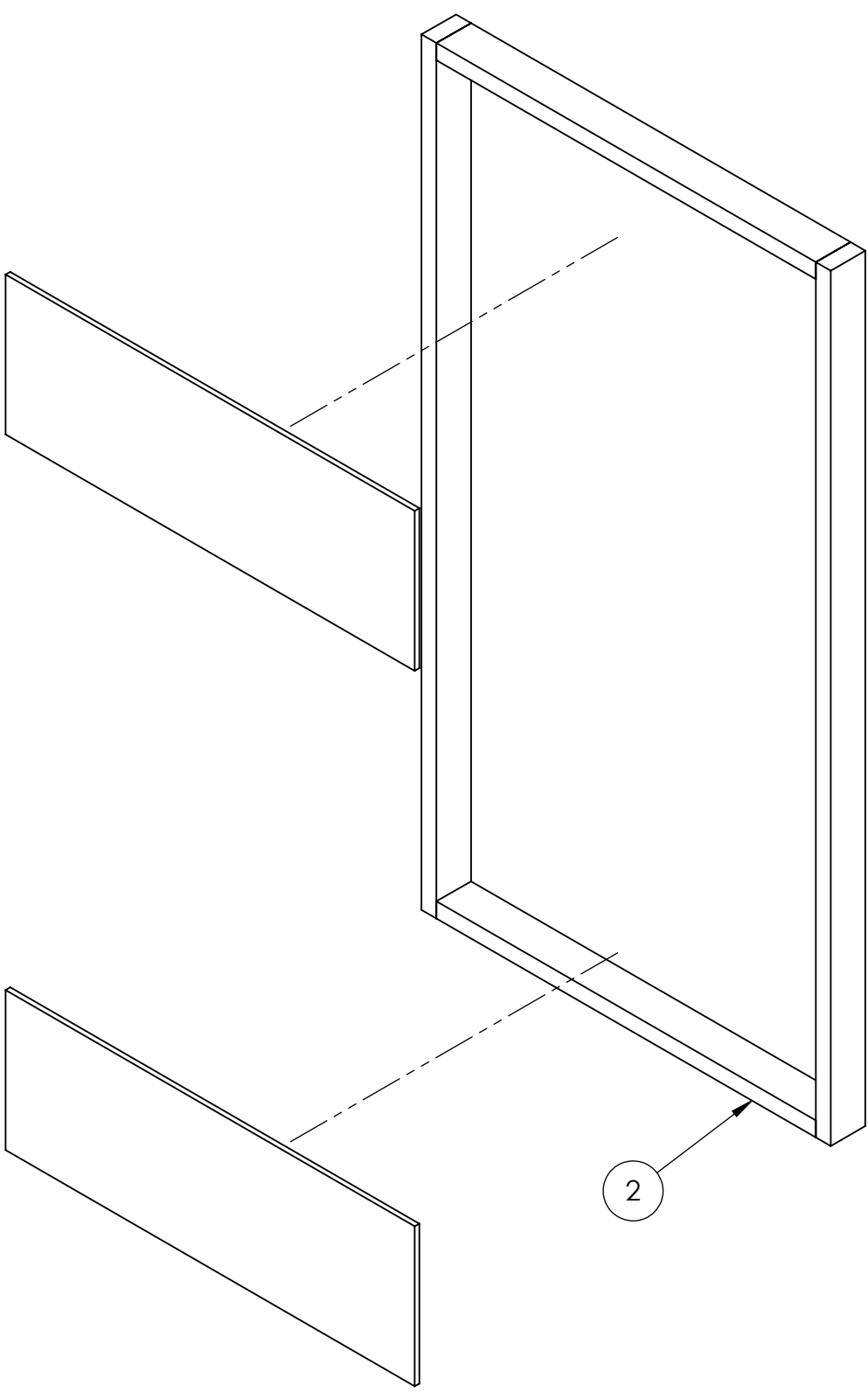
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A

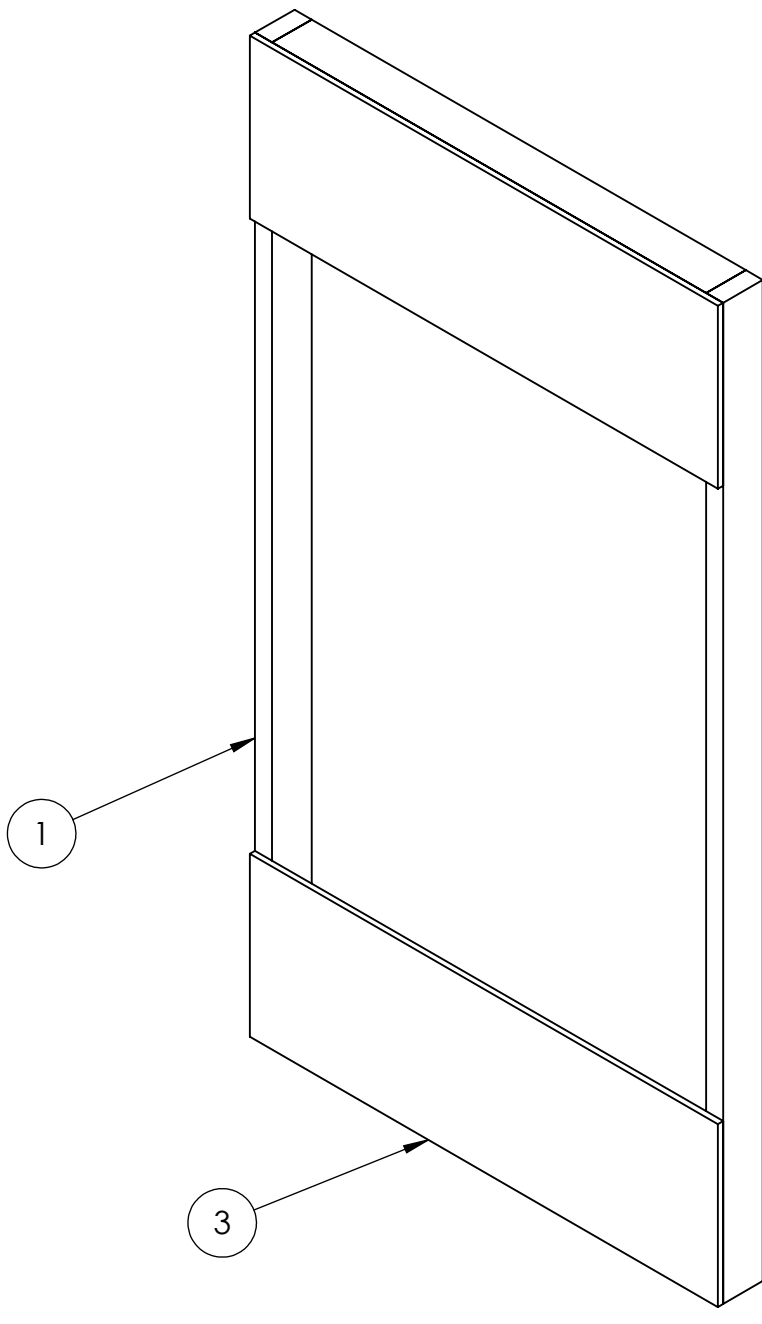
A



Step 1: Assemble 1 and 2 as shown with wood screws



Step 2: Assemble 3 to frame as shown with wood screws



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TE-24303	Upright	2
2	TE-24304	Crossbar	2
3	TE-24306	Rear Gusset Plate	2

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
TOLERANCES:  
FRACTIONAL  $\pm 1/16$   
ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
TWO PLACE DECIMAL  $\pm .13$   
THREE PLACE DECIMAL  $\pm .125$

MATERIAL/FINISH:

DO NOT SCALE DRAWING

TEAM  
DRAWN



NAME  
JO

DATE  
12/11/2023

PROPRIETARY AND CONFIDENTIAL

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COMMENTS:  
REMOVE ALL BURRS AND SHARP EDGES.



TITLE:  
**Speaker Back Frame**

SIZE  
**C**

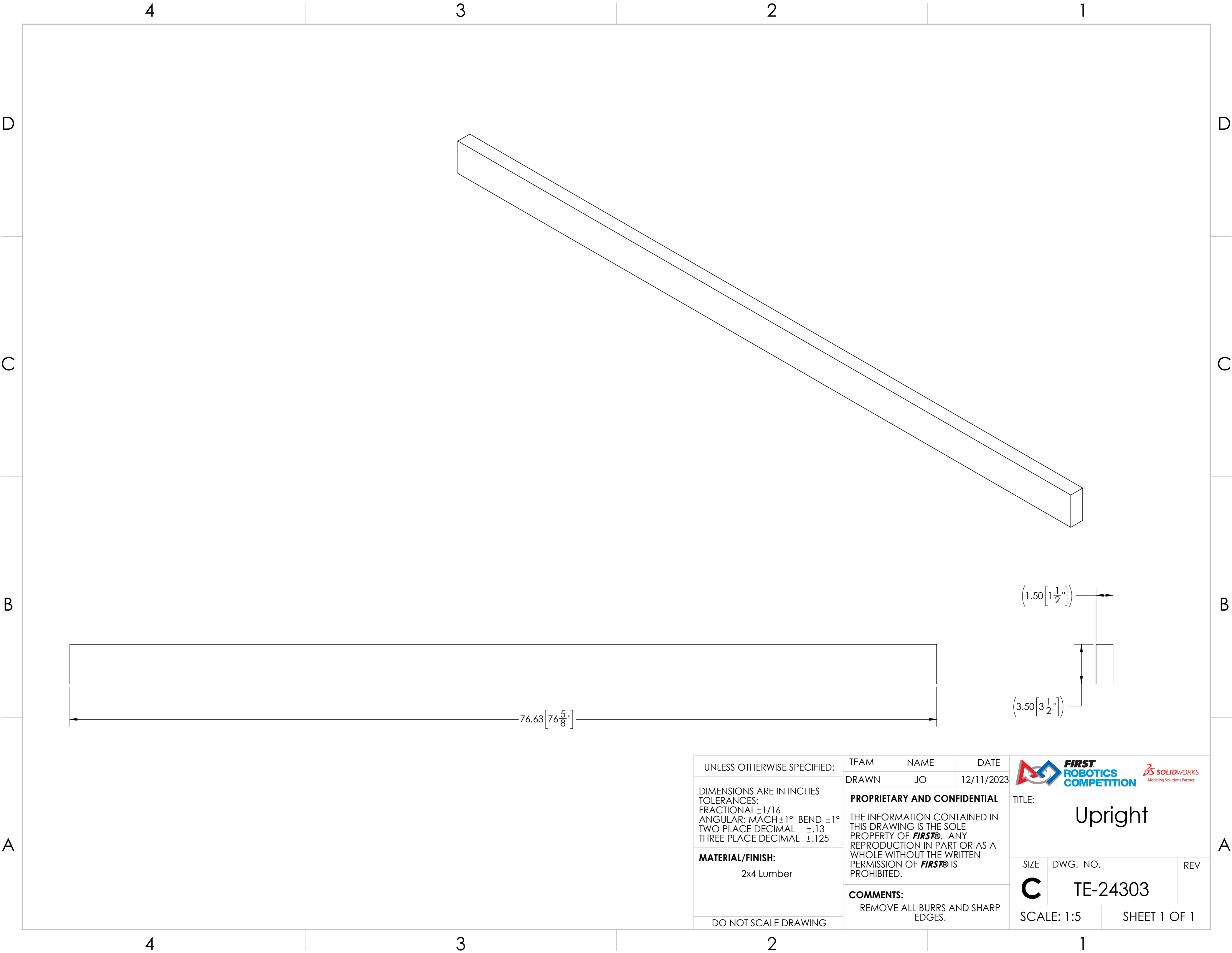
DWG. NO.  
**TE-24302**



REV

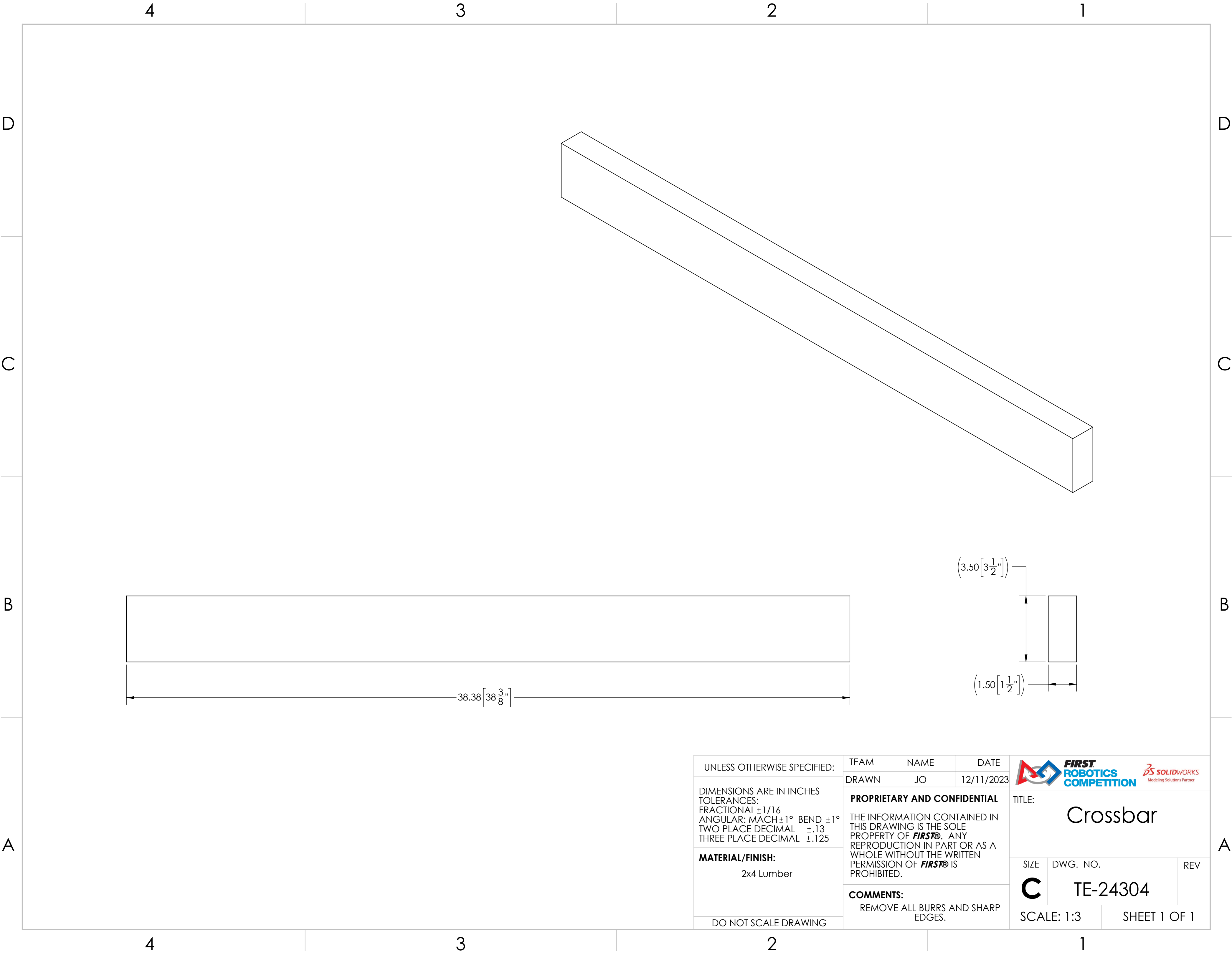
SCALE: 1:12



SHEET 1 OF 1

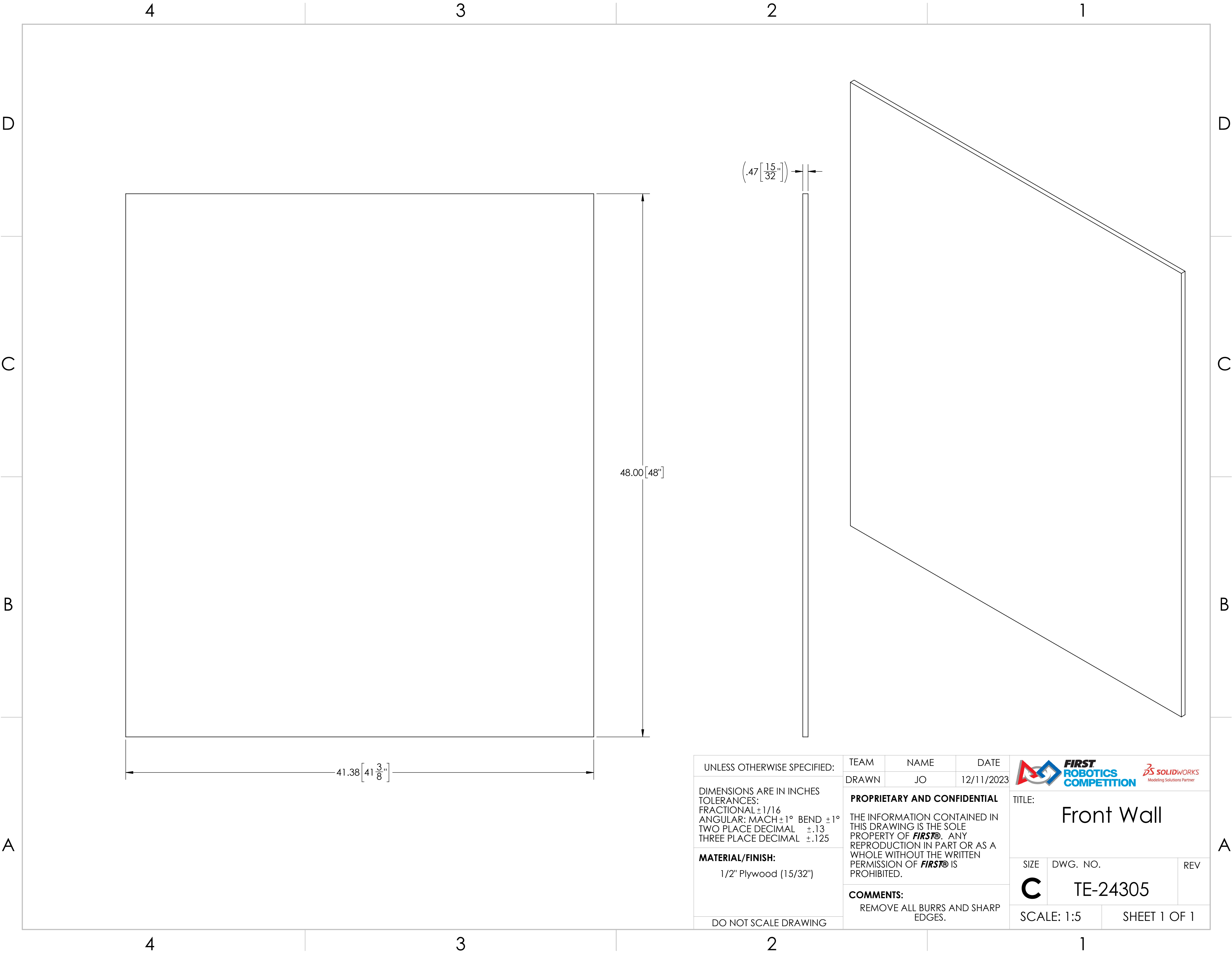






UNLESS OTHERWISE SPECIFIED:		TEAM	NAME	DATE	 			
<p>DIMENSIONS ARE IN INCHES</p> <p>TOLERANCES:</p> <p>FRACTIONAL <math>\pm 1/16</math></p> <p>ANGULAR: MACH <math>\pm 1^\circ</math> BEND <math>\pm 1^\circ</math></p> <p>TWO PLACE DECIMAL <math>\pm .13</math></p> <p>THREE PLACE DECIMAL <math>\pm .125</math></p>		DRAWN	JO	12/11/2023	<p>TITLE:</p> <p>Upright</p>			
		<p><b>PROPRIETARY AND CONFIDENTIAL</b></p> <p>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b>. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.</p>						
		<p><b>MATERIAL/FINISH:</b></p> <p>2x4 Lumber</p>		<p><b>COMMENTS:</b></p> <p>REMOVE ALL BURRS AND SHARP EDGES.</p>			<p>SIZE</p> <p><b>C</b></p>	<p>DWG. NO.</p> <p>TE-24303</p>
DO NOT SCALE DRAWING					<p>SCALE: 1:5</p>		<p>SHEET 1 OF 1</p>	

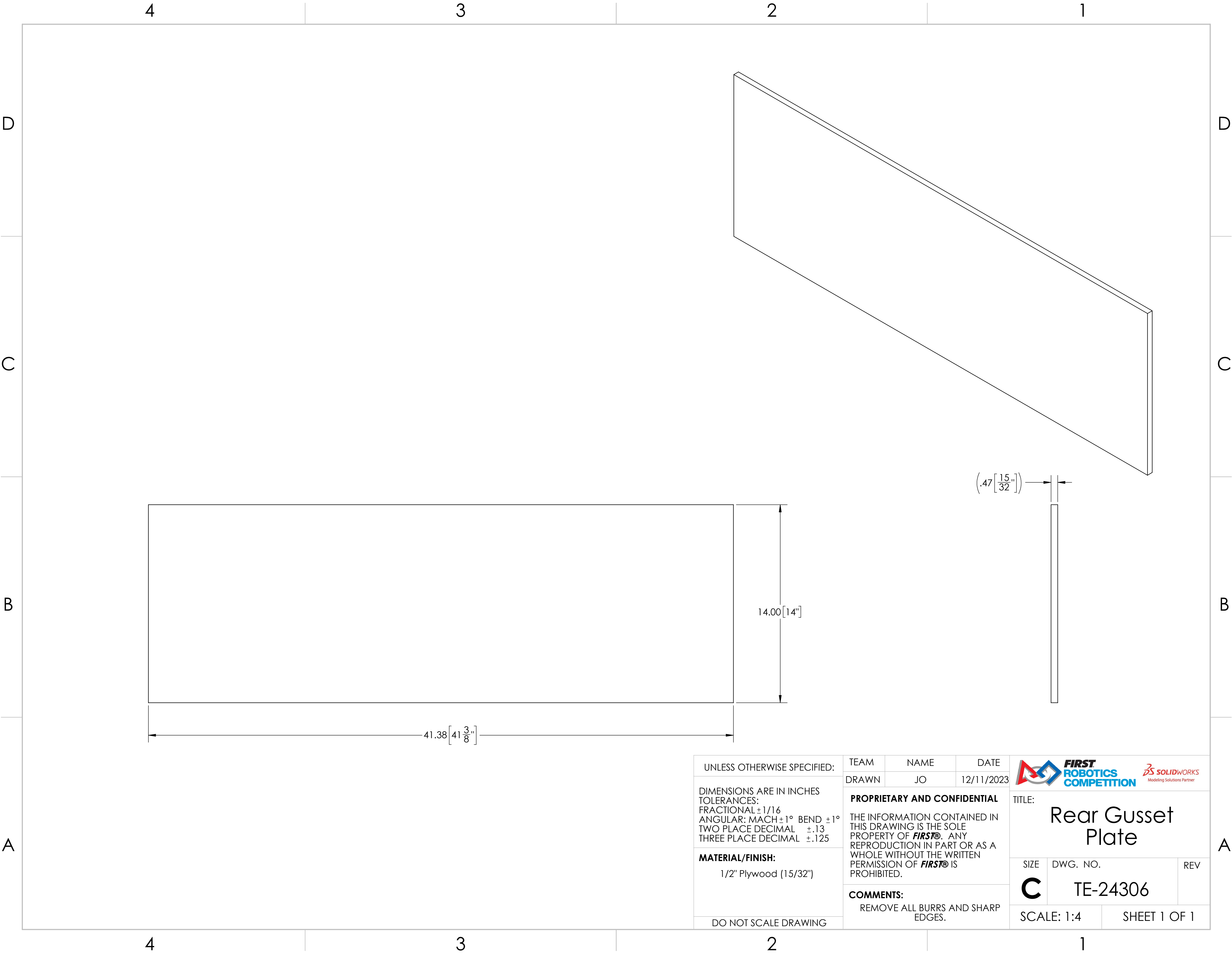




UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$  <b>MATERIAL/FINISH:</b>  2x4 Lumber   DO NOT SCALE DRAWING	TEAM	NAME	DATE	<div></div> <div>TITLE:  Crossbar</div>		
	DRAWN	JO	12/11/2023			
	<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>	TE-24304	
		SCALE: 1:3		SHEET 1 OF 1		

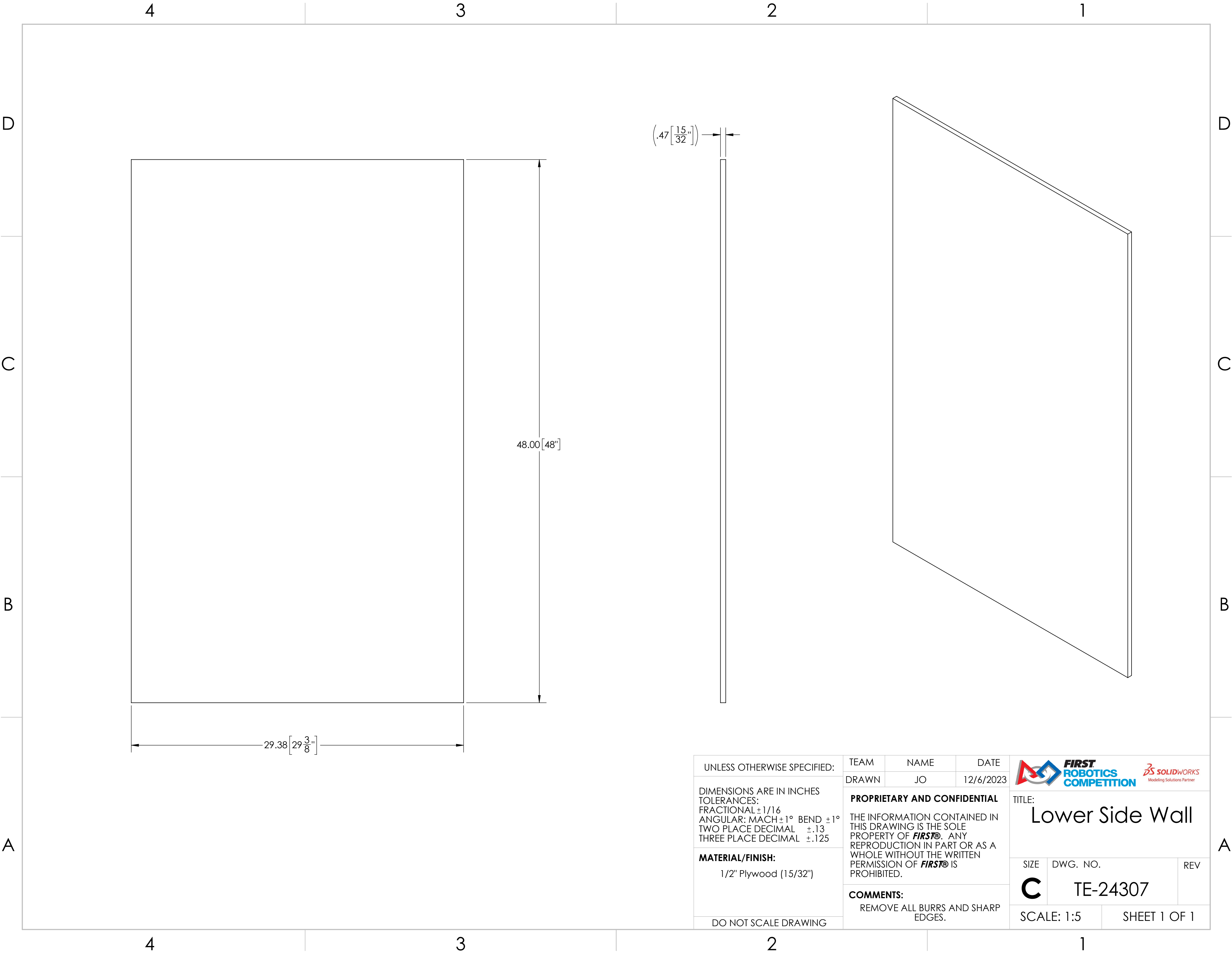




UNLESS OTHERWISE SPECIFIED:		TEAM	NAME	DATE	<div></div>				
		DRAWN	JO	12/11/2023					
<p>DIMENSIONS ARE IN INCHES</p> <p>TOLERANCES:</p> <p>FRACTIONAL ±1/16</p> <p>ANGULAR: MACH ±1° BEND ±1°</p> <p>TWO PLACE DECIMAL ±.13</p> <p>THREE PLACE DECIMAL ±.125</p>		<b>PROPRIETARY AND CONFIDENTIAL</b>			TITLE:  Front Wall				
		THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.							
		<b>MATERIAL/FINISH:</b>		<b>COMMENTS:</b>			SIZE <b>C</b>		
		1/2" Plywood (15/32")		REMOVE ALL BURRS AND SHARP EDGES.					
DO NOT SCALE DRAWING					SCALE: 1:5				
					SHEET 1 OF 1				

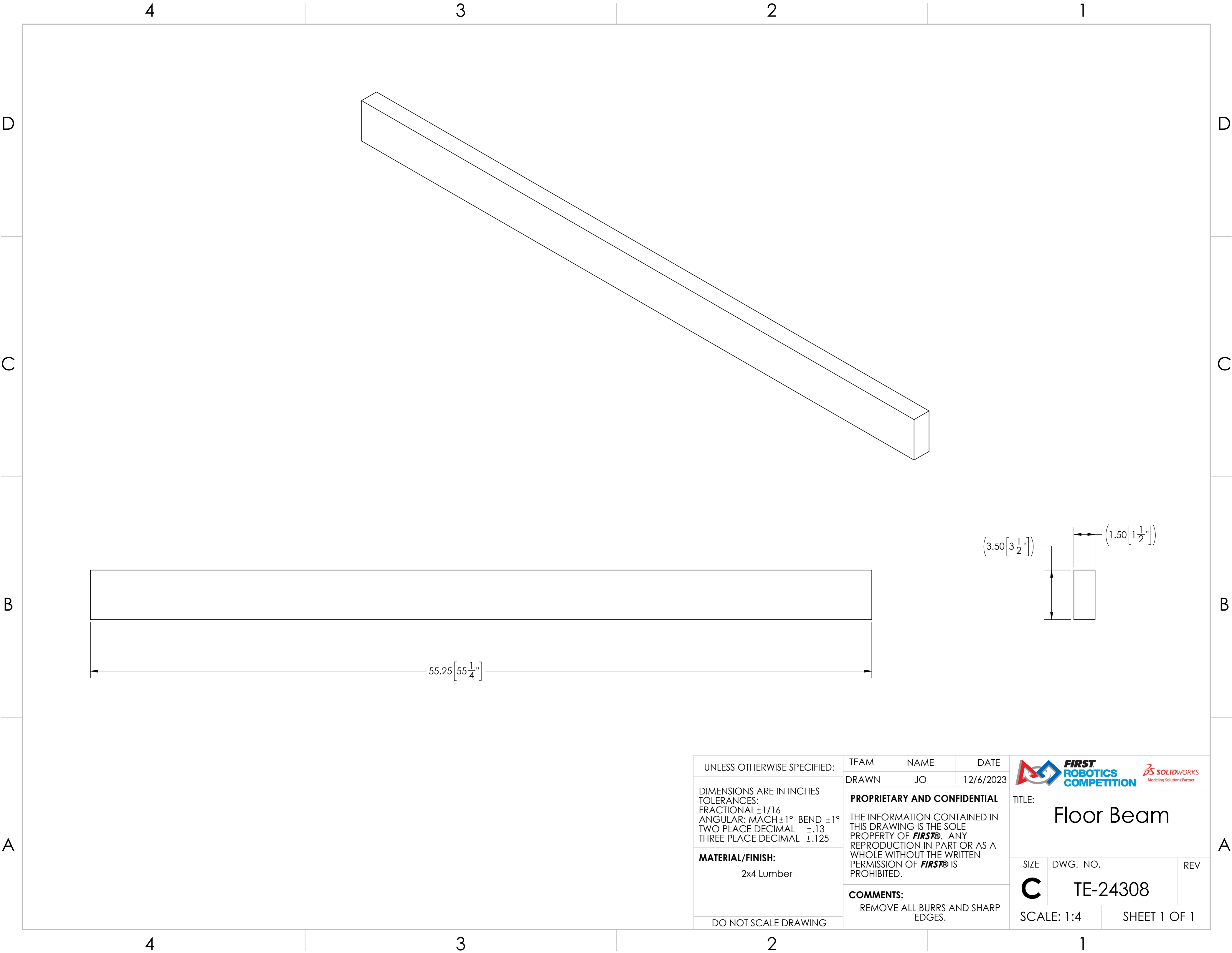






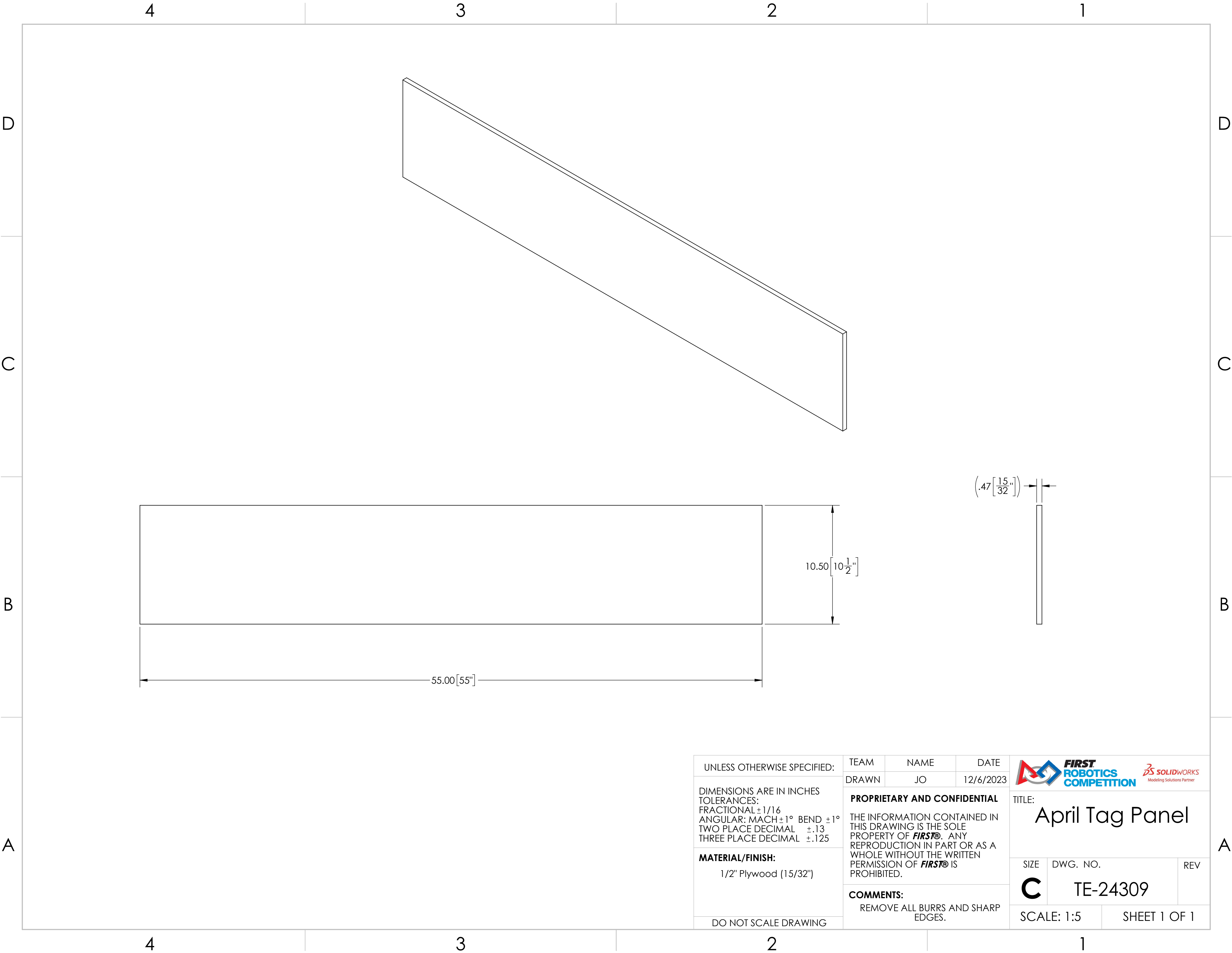
UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125  <b>MATERIAL/FINISH:</b>  1/2" Plywood (15/32")  DO NOT SCALE DRAWING	TEAM	NAME	DATE	<div></div>		
	DRAWN	JO	12/11/2023			
	<b>PROPRIETARY AND 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:  Rear Gusset Plate		
	<b>COMMENTS:</b>  REMOVE ALL BURRS AND SHARP EDGES.			SIZE	DWG. NO.	REV
C				TE-24306		
			SCALE: 1:4		SHEET 1 OF 1	





UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ± .13 THREE PLACE DECIMAL ± .125  <b>MATERIAL/FINISH:</b>  1/2" Plywood (15/32")  DO NOT SCALE DRAWING	TEAM	NAME	DATE	<div></div> <div>TITLE: Lower Side Wall</div>		
	DRAWN	JO	12/6/2023			
	<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>	TE-24307	
SCALE: 1:5		SHEET 1 OF 1				



UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE	<div><div></div><div>TITLE: <h1>Floor Beam</h1></div></div>		
	DRAWN	JO	12/6/2023			
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	<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>	TE-24308	
	DO NOT SCALE DRAWING			SCALE: 1:4		SHEET 1 OF 1
<b>MATERIAL/FINISH:</b> 2x4 Lumber						



UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE	<div></div> <div>TITLE: <h1>April Tag Panel</h1></div>		
	DRAWN	JO	12/6/2023			
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	<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>	TE-24309	
	DO NOT SCALE DRAWING			SCALE: 1:5		SHEET 1 OF 1
<b>MATERIAL/FINISH:</b> 1/2" Plywood (15/32")						



4

3

2

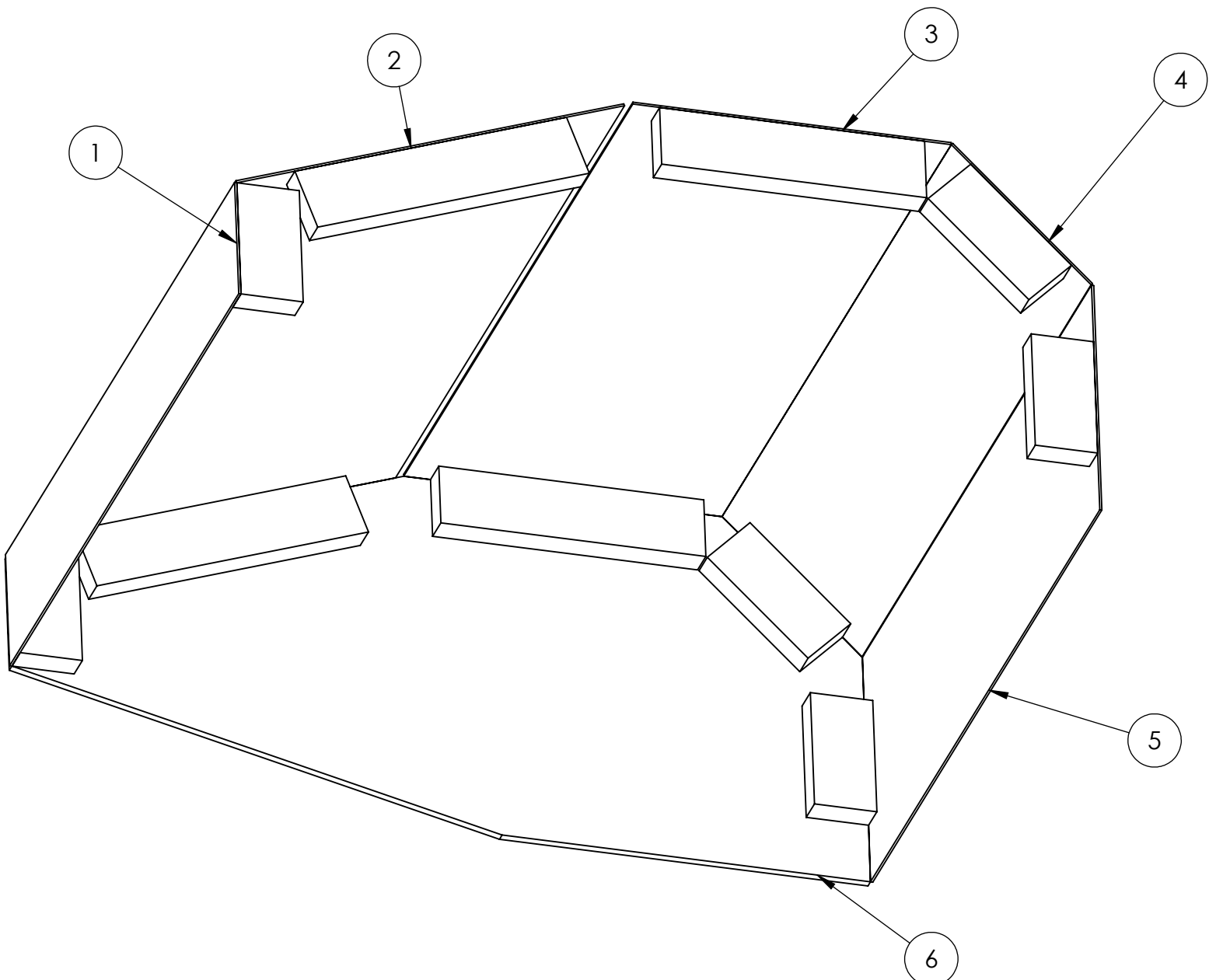
1

D

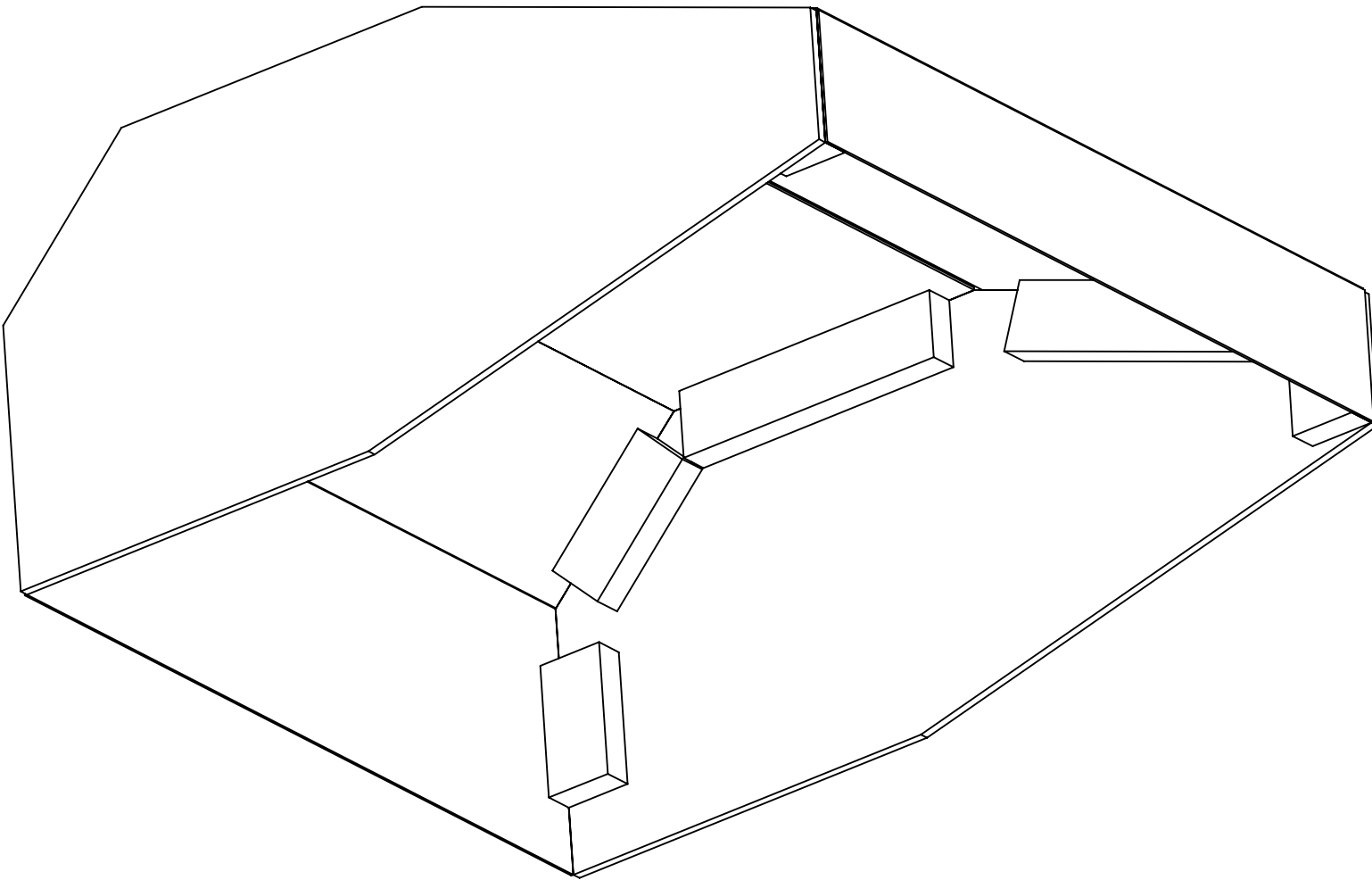
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D

C



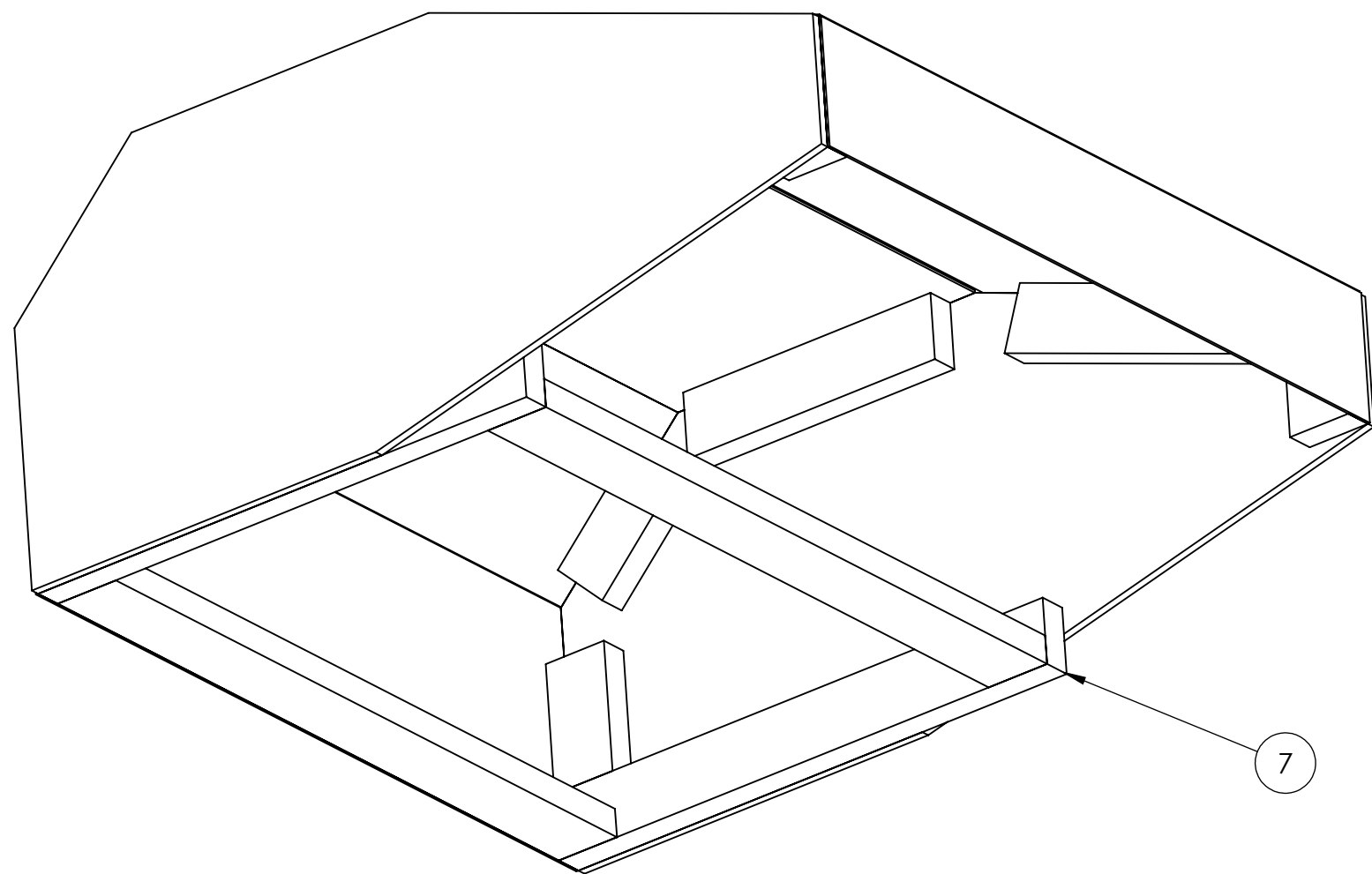
Step 1: Attach 1 2 3 4 and 5 to 6 with wood screws, with each being roughly centered on the corresponding edge of 6



Step 2: Repeat Step 1 on the opposite side

B



B



Step 3: Attach 7 to the assembly with wood screws so that it is lined up with the bottom corner of 6

A

A

UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125  <b>MATERIAL/FINISH:</b>    DO NOT SCALE DRAWING	TEAM	NAME	DATE	 	
	DRAWN	JO	12/11/2023		
	<b>PROPRIETARY AND CONFIDENTIAL</b>  THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.  <b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.				TITLE:  <b>Speaker Top Assembly</b>
		SIZE		DWG. NO.	REV
		<b>C</b>		<b>TE-24310</b>	
SCALE: 1:8			SHEET 2 OF 2		

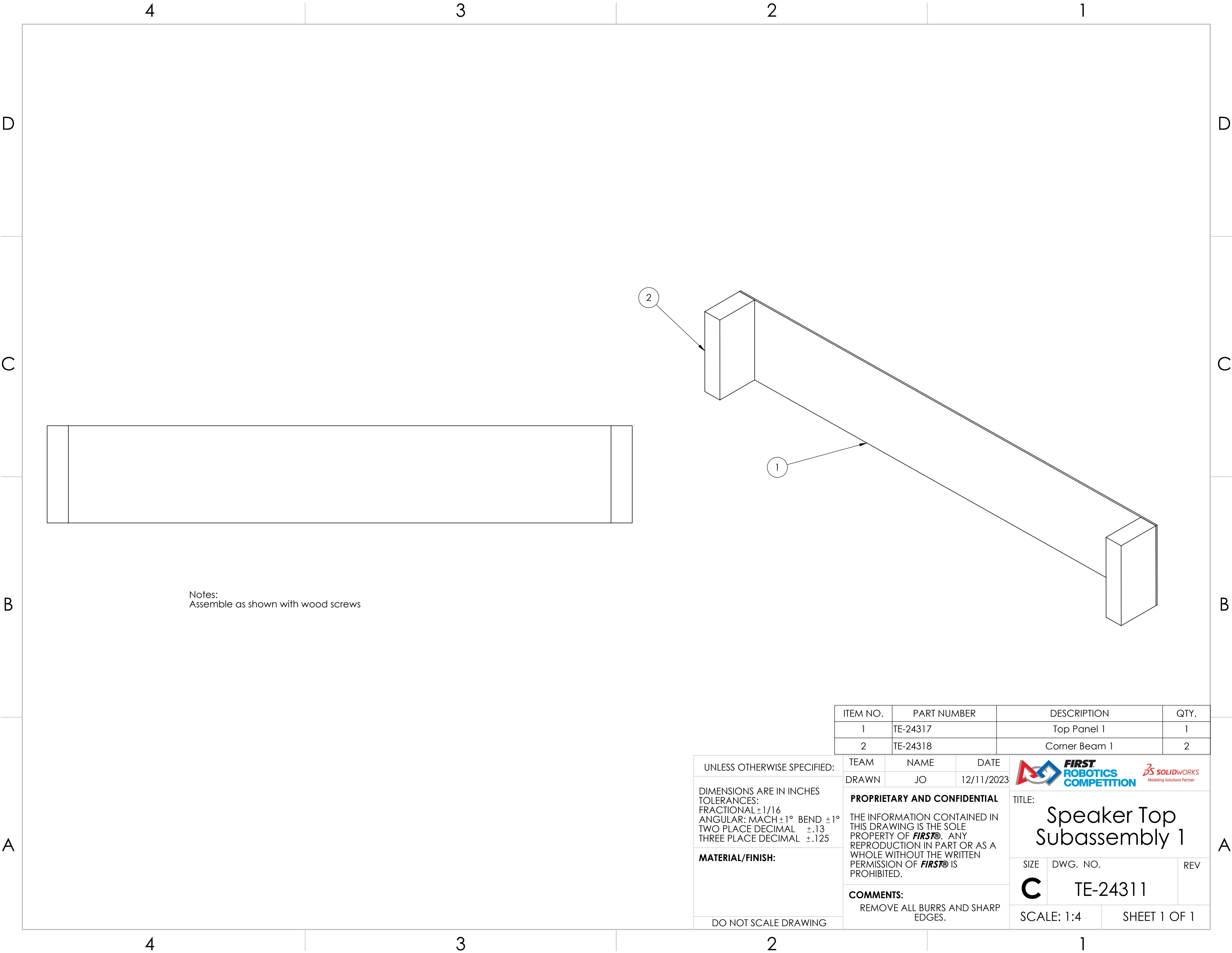
4

3

2

1





Notes:  
Assemble as shown with wood screws

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TE-24317	Top Panel 1	1
2	TE-24318	Corner Beam 1	2

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
TOLERANCES:  
FRACTIONAL  $\pm 1/16$   
ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
TWO PLACE DECIMAL  $\pm .13$   
THREE PLACE DECIMAL  $\pm .125$

MATERIAL/FINISH:

DO NOT SCALE DRAWING

TEAM  
DRAWN



NAME  
JO

DATE  
12/11/2023

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COMMENTS:  
REMOVE ALL BURRS AND SHARP EDGES.



TITLE:  
**Speaker Top Subassembly 1**

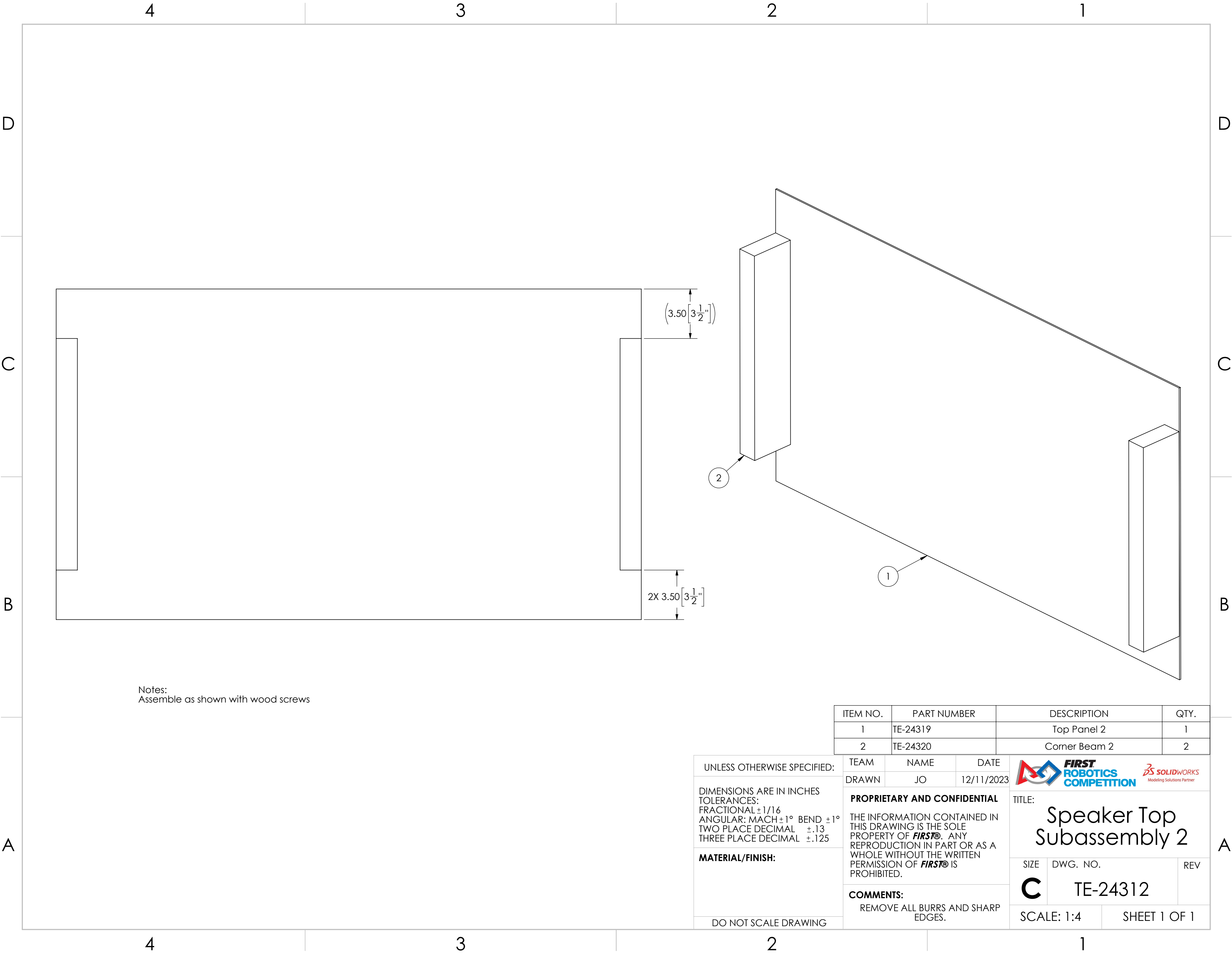
SIZE  
**C**

DWG. NO.  
**TE-24311**

REV

SCALE: 1:4

SHEET 1 OF 1



Notes:  
Assemble as shown with wood screws

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TE-24319	Top Panel 2	1
2	TE-24320	Corner Beam 2	2

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
TOLERANCES:  
FRACTIONAL  $\pm 1/16$   
ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
TWO PLACE DECIMAL  $\pm .13$   
THREE PLACE DECIMAL  $\pm .125$

MATERIAL/FINISH:

DO NOT SCALE DRAWING

TEAM  
DRAWN



NAME  
JO

DATE  
12/11/2023

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COMMENTS:  
REMOVE ALL BURRS AND SHARP EDGES.



TITLE:  
**Speaker Top Subassembly 2**

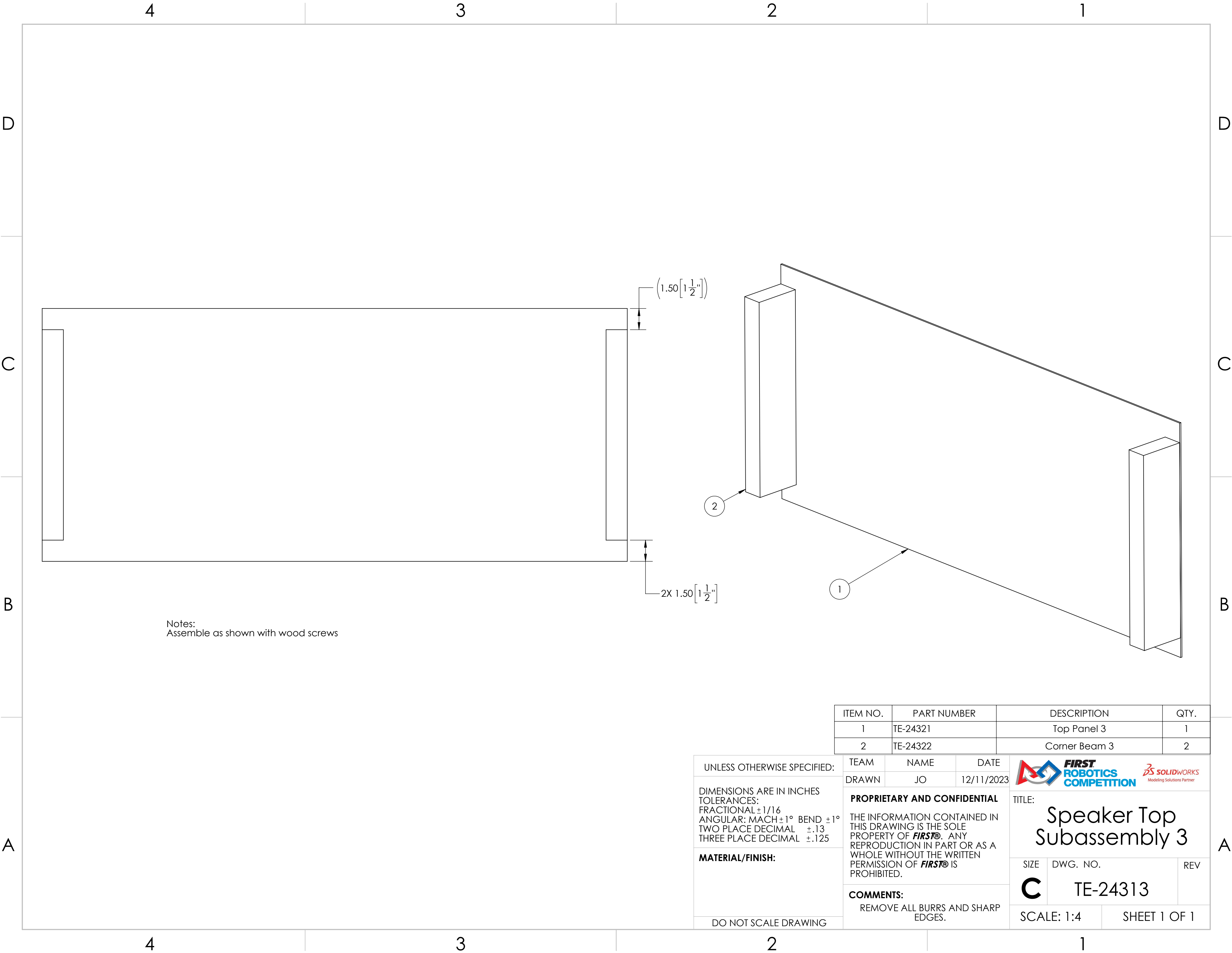
SIZE  
**C**

DWG. NO.  
**TE-24312**

REV

SCALE: 1:4

SHEET 1 OF 1



Notes:  
Assemble as shown with wood screws

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TE-24321	Top Panel 3	1
2	TE-24322	Corner Beam 3	2

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
TOLERANCES:  
FRACTIONAL  $\pm 1/16$   
ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
TWO PLACE DECIMAL  $\pm .13$   
THREE PLACE DECIMAL  $\pm .125$

MATERIAL/FINISH:

DO NOT SCALE DRAWING

TEAM  
DRAWN



NAME  
JO

DATE  
12/11/2023

PROPRIETARY AND CONFIDENTIAL

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COMMENTS:  
REMOVE ALL BURRS AND SHARP EDGES.



TITLE:  

# Speaker Top Subassembly 3

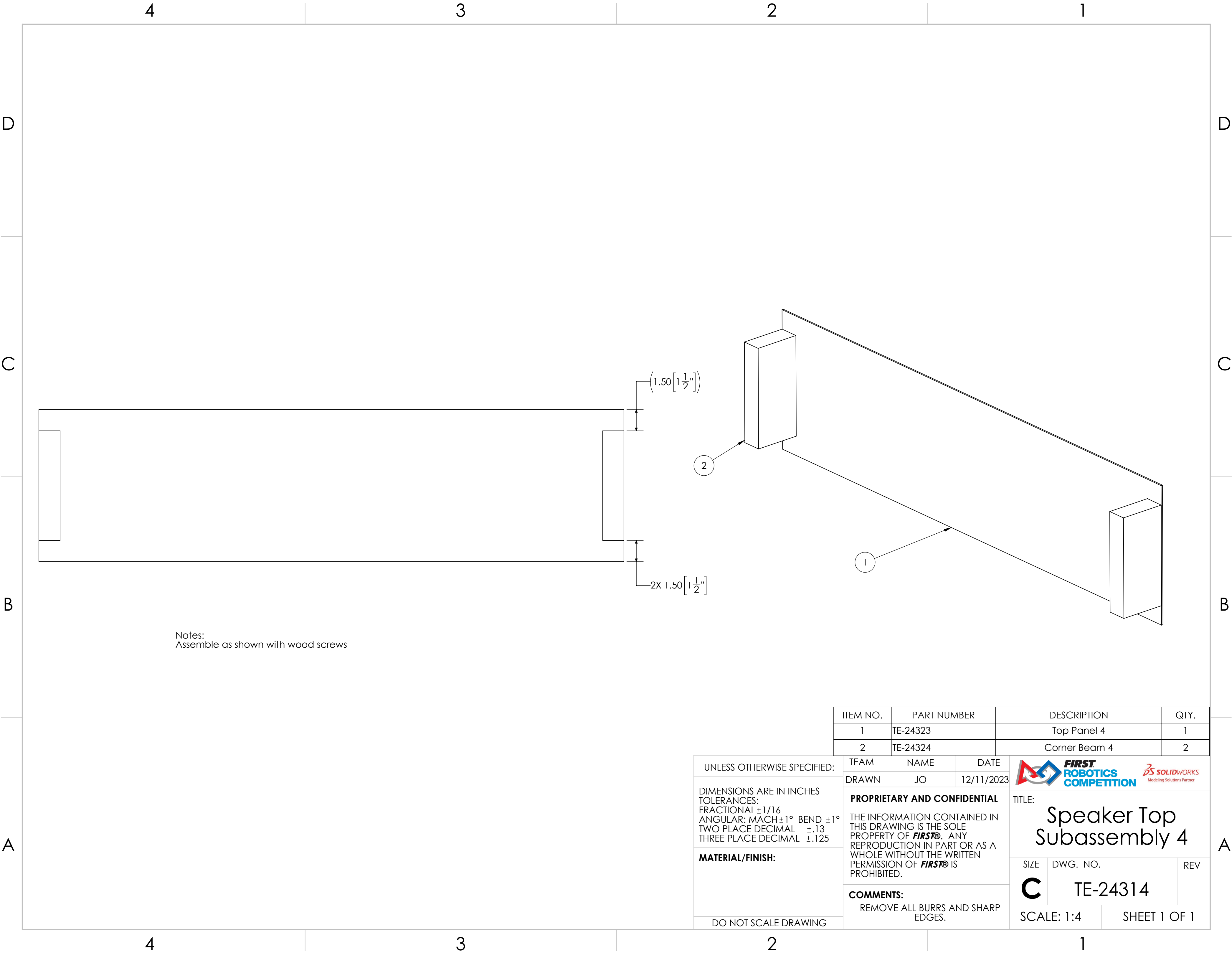
SIZE  
**C**

DWG. NO.  
TE-24313

REV



SCALE: 1:4

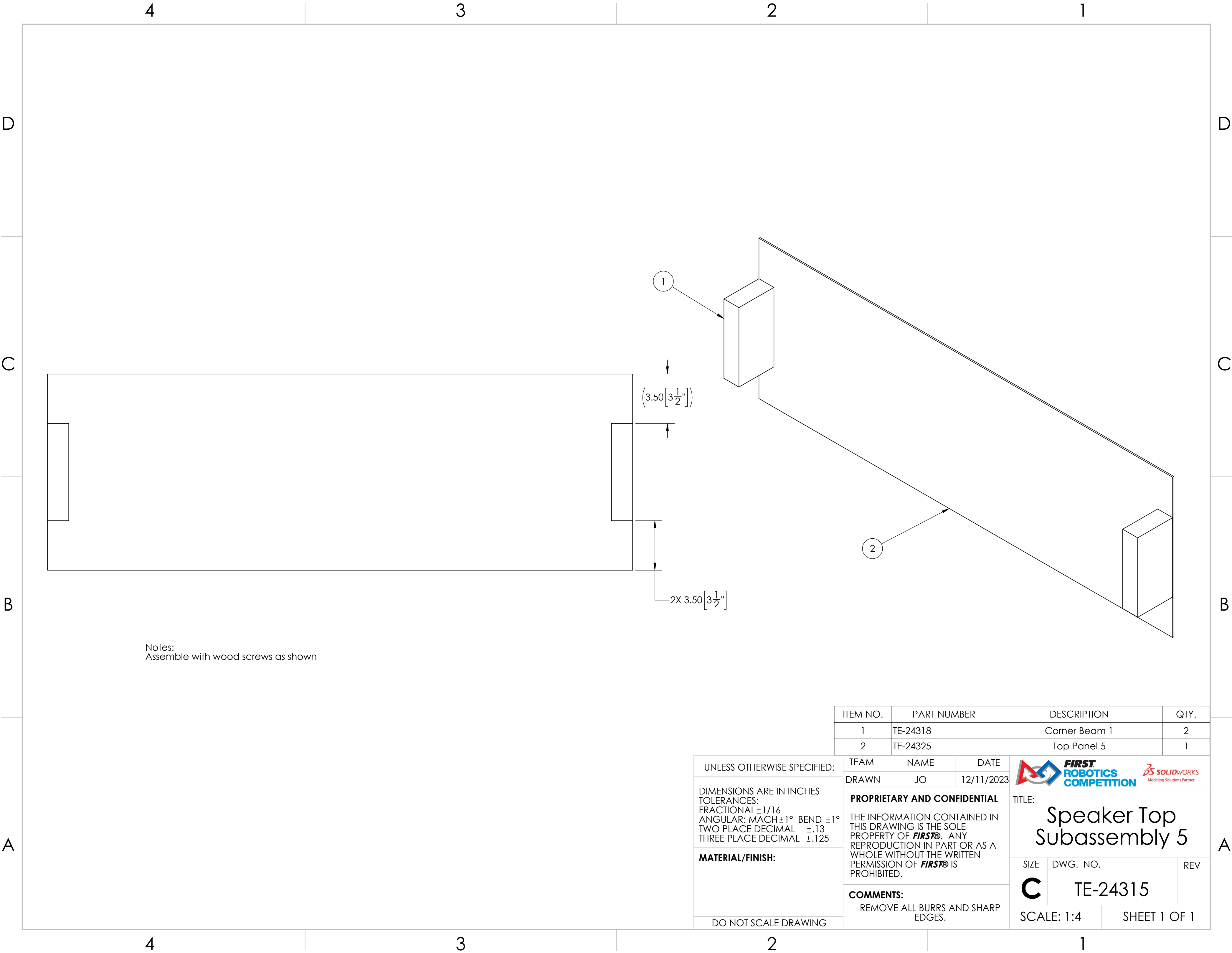
SHEET 1 OF 1



Notes:  
Assemble as shown with wood screws



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TE-24323	Top Panel 4	1
2	TE-24324	Corner Beam 4	2

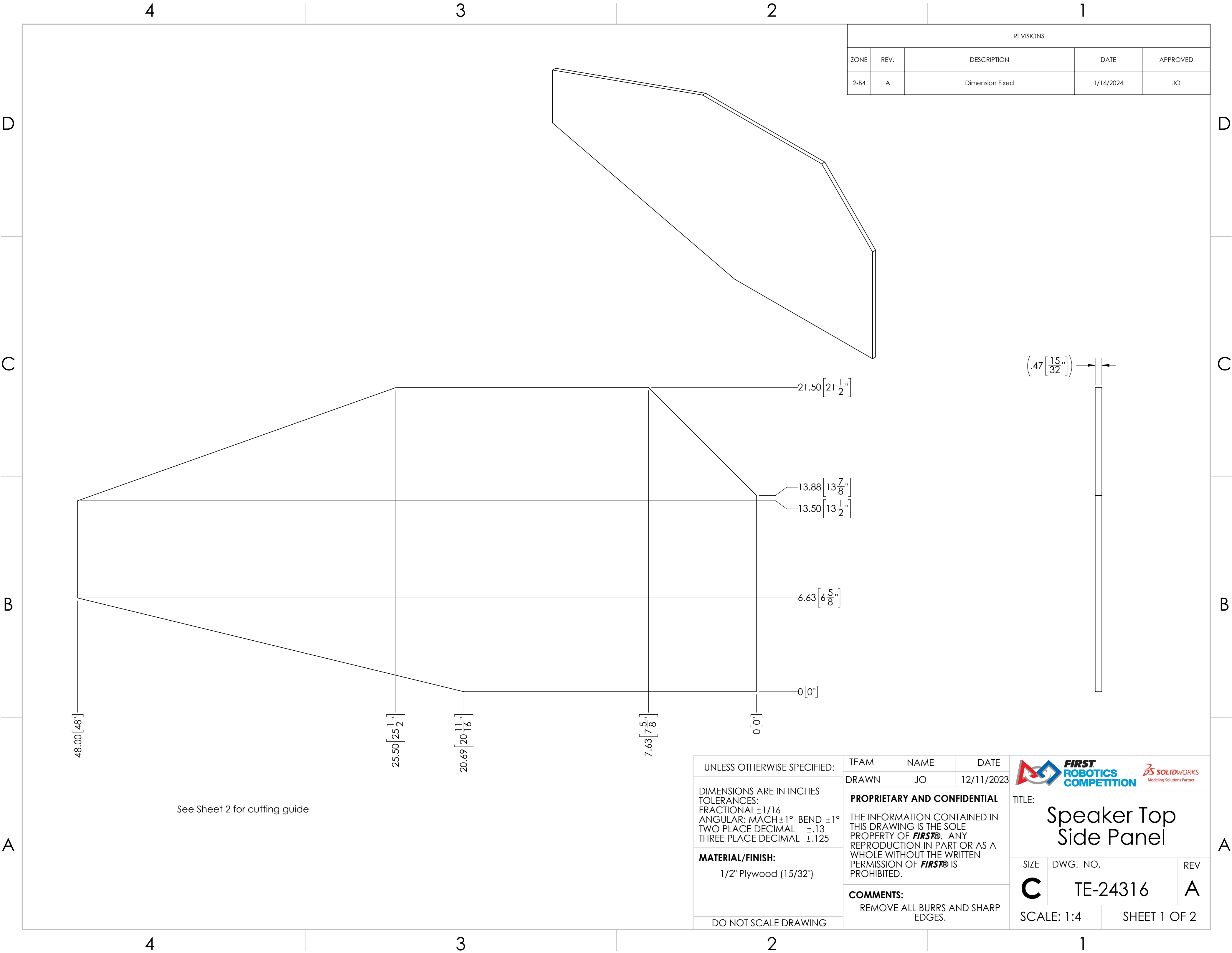
UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE	<div></div>	
	DRAWN	JO	12/11/2023		
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	PROPRIETARY AND CONFIDENTIAL			TITLE:	
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			Speaker Top Subassembly 4	
	MATERIAL/FINISH:			SIZE DWG. NO. REV	
DO NOT SCALE DRAWING	COMMENTS:			C TE-24314	
	REMOVE ALL BURRS AND SHARP EDGES.			SCALE: 1:4 SHEET 1 OF 1	





Notes:  
Assemble with wood screws as shown

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TE-24318	Corner Beam 1	2
2	TE-24325	Top Panel 5	1

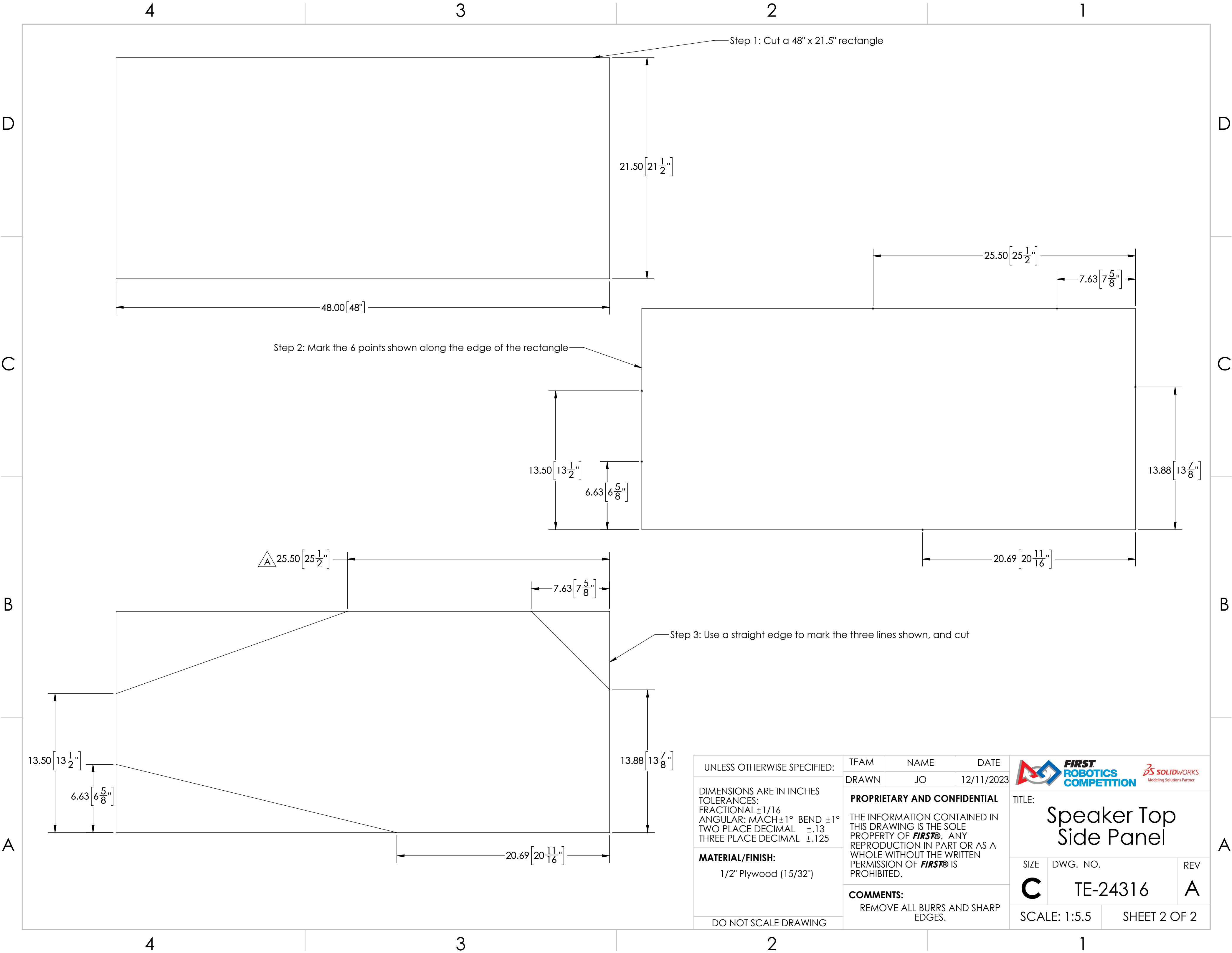
UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$  <b>MATERIAL/FINISH:</b>     <b>DO NOT SCALE DRAWING</b>	TEAM DRAWN	NAME JO	DATE 12/11/2023	 	
	<b>PROPRIETARY 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:  Speaker Top Subassembly 5	
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			SIZE <b>C</b>	DWG. NO. TE-24315
				SCALE: 1:4	SHEET 1 OF 1





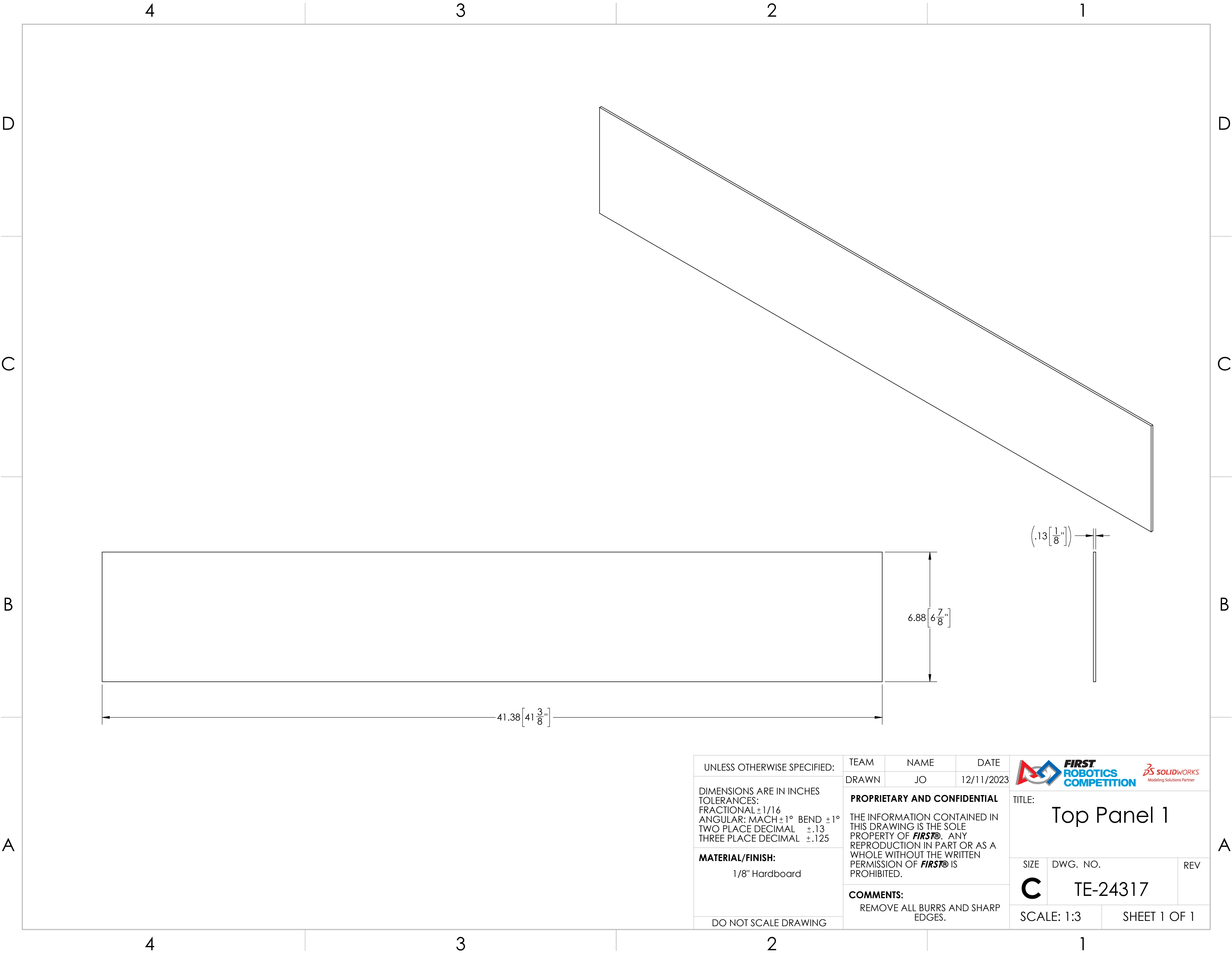
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
2-B4	A	Dimension Fixed	1/16/2024	JO



UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE	<div></div> <div>TITLE: <h1>Speaker Top Side Panel</h1></div>	
	DRAWN	JO	12/11/2023		
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	PROPRIETARY AND CONFIDENTIAL			SIZE <b>C</b>	
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.				
MATERIAL/FINISH:  1/2" Plywood (15/32")	COMMENTS:  REMOVE ALL BURRS AND SHARP EDGES.			DWG. NO.  TE-24316	
DO NOT SCALE DRAWING				REV  A	
			SCALE: 1:4		SHEET 1 OF 2

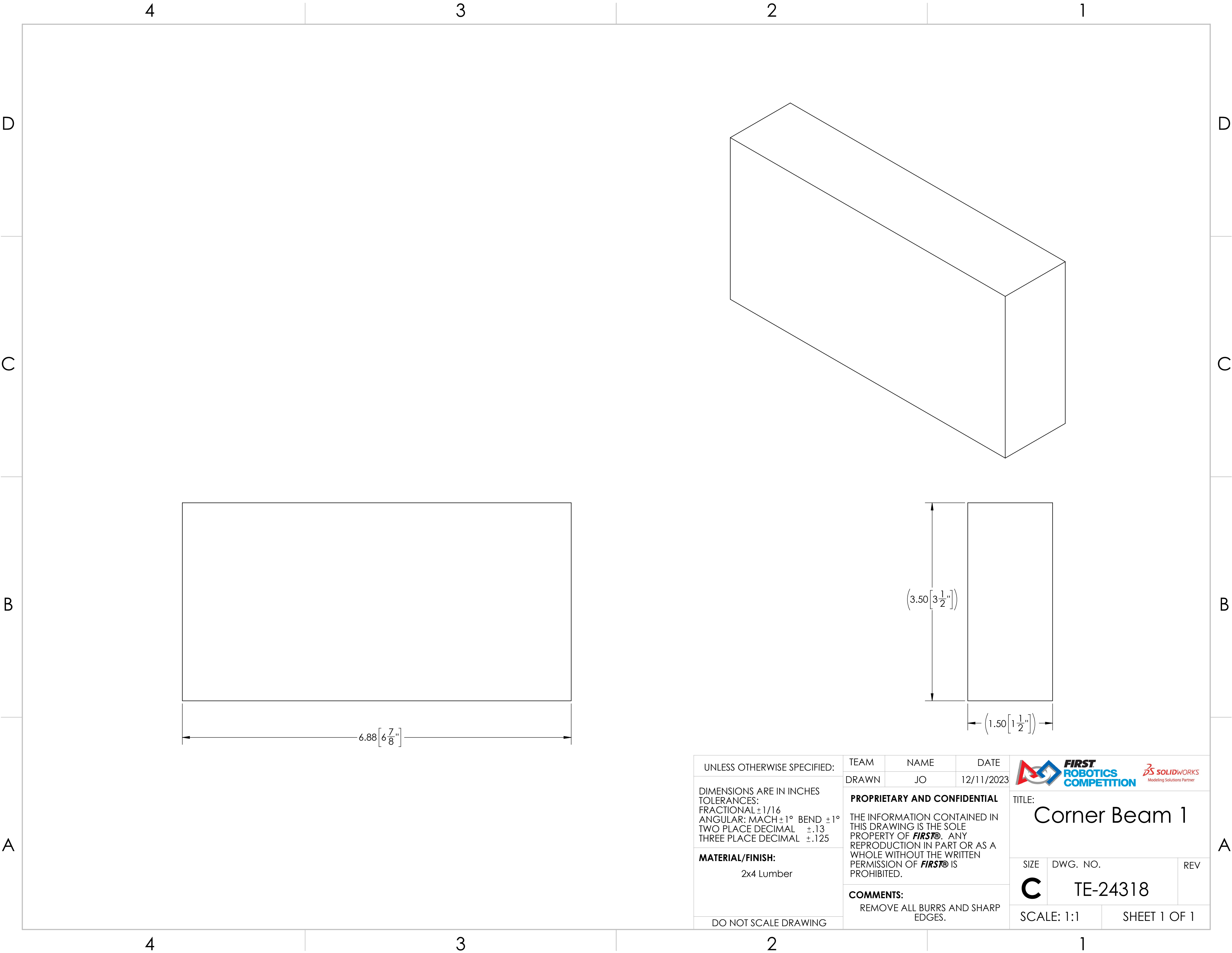






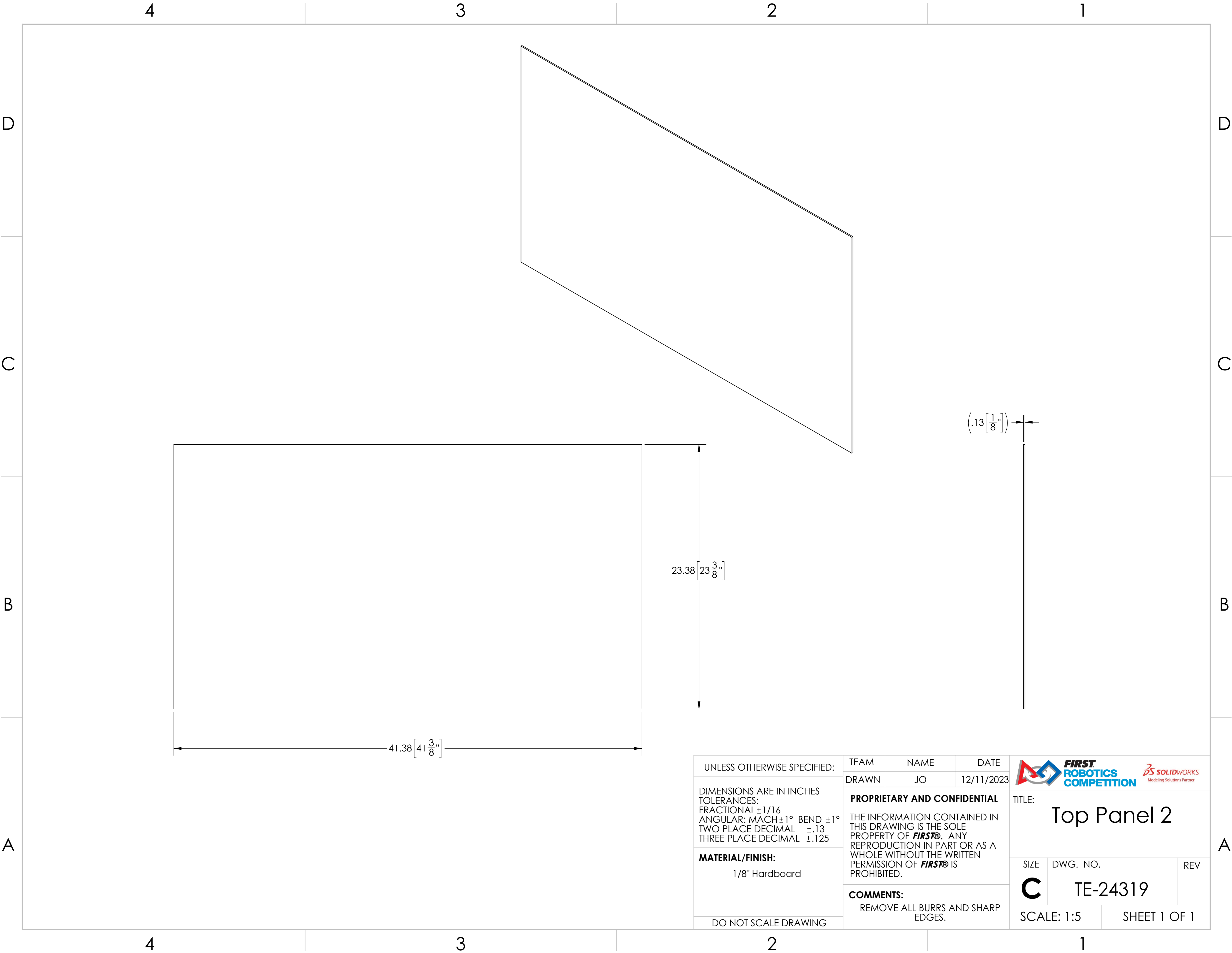
UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE	<div></div>		
	DRAWN	JO	12/11/2023			
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	<b>PROPRIETARY AND CONFIDENTIAL</b>  THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			TITLE:  Speaker Top Side Panel		
	<b>MATERIAL/FINISH:</b>  1/2" Plywood (15/32")	<b>COMMENTS:</b>  REMOVE ALL BURRS AND SHARP EDGES.			SIZE	DWG. NO.
	C				TE-24316	A
DO NOT SCALE DRAWING				SCALE: 1:5.5		SHEET 2 OF 2





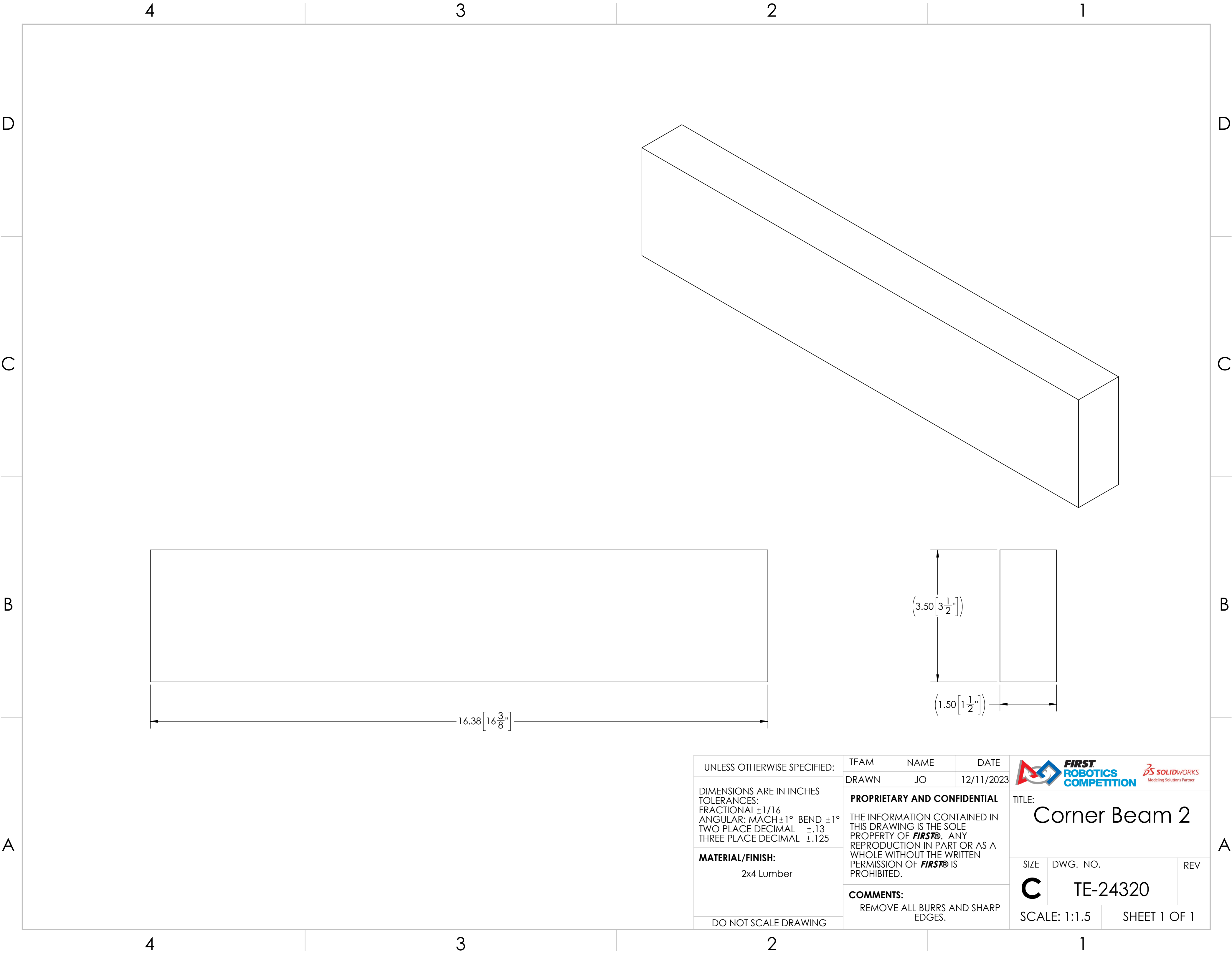
UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$  <b>MATERIAL/FINISH:</b>  1/8" Hardboard   DO NOT SCALE DRAWING	TEAM	NAME	DATE	<div></div> <div>TITLE: <h1>Top Panel 1</h1></div>		
	DRAWN	JO	12/11/2023			
	<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
SCALE: 1:3		SHEET 1 OF 1				





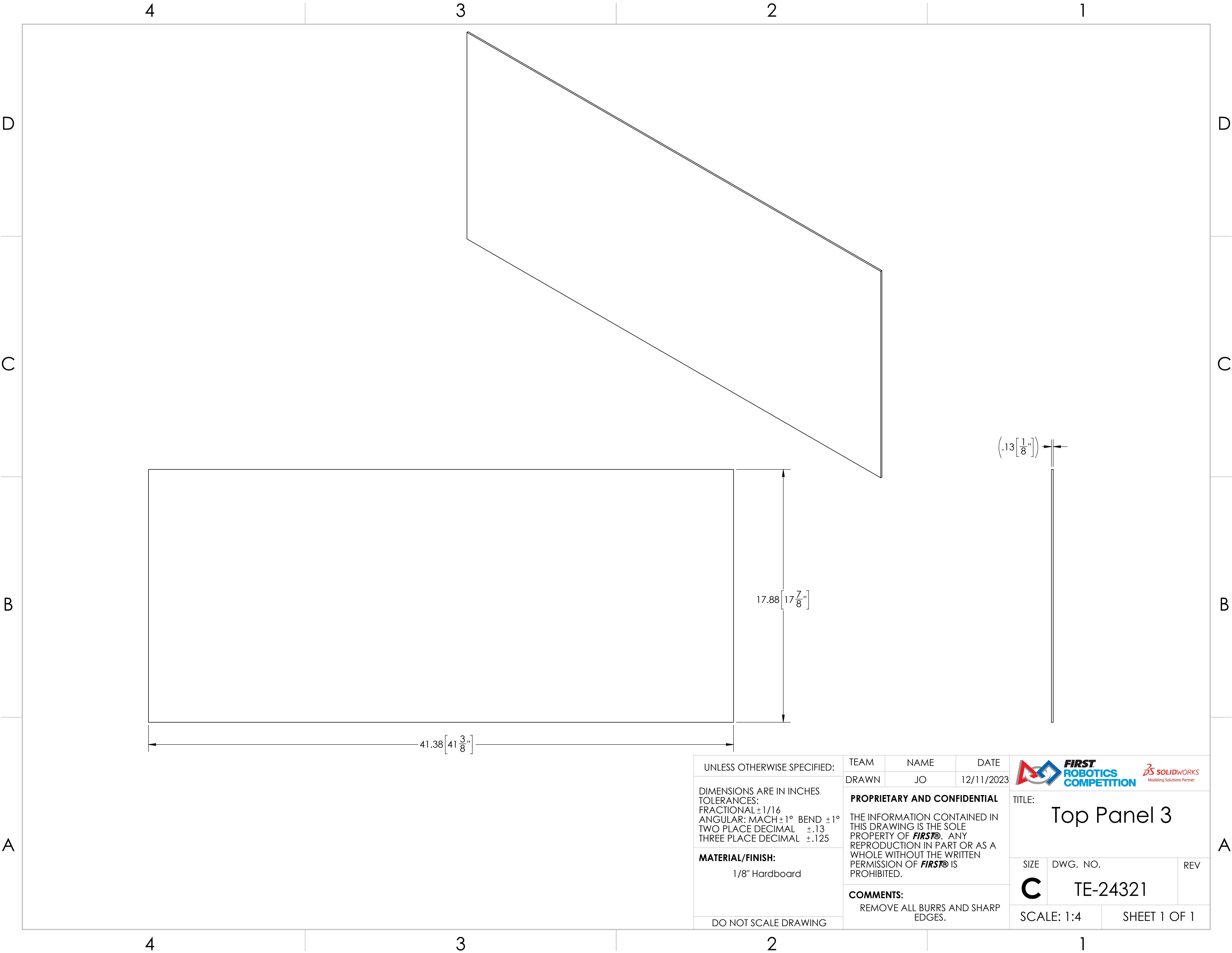
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	DRAWN	JO	12/11/2023			
	<b>PROPRIETARY AND CONFIDENTIAL</b>  THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.  <b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			SIZE <b>C</b>	DWG. NO. TE-24318	REV
SCALE: 1:1		SHEET 1 OF 1				



UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$  <b>MATERIAL/FINISH:</b>  1/8" Hardboard   DO NOT SCALE DRAWING	TEAM	NAME	DATE	<div></div>		
	DRAWN	JO	12/11/2023			
	<b>PROPRIETARY AND CONFIDENTIAL</b>			TITLE:		
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			Top Panel 2		
<b>COMMENTS:</b>		REMOVE ALL BURRS AND SHARP EDGES.		SIZE	DWG. NO.	REV
				<b>C</b>	TE-24319	
				SCALE: 1:5		SHEET 1 OF 1



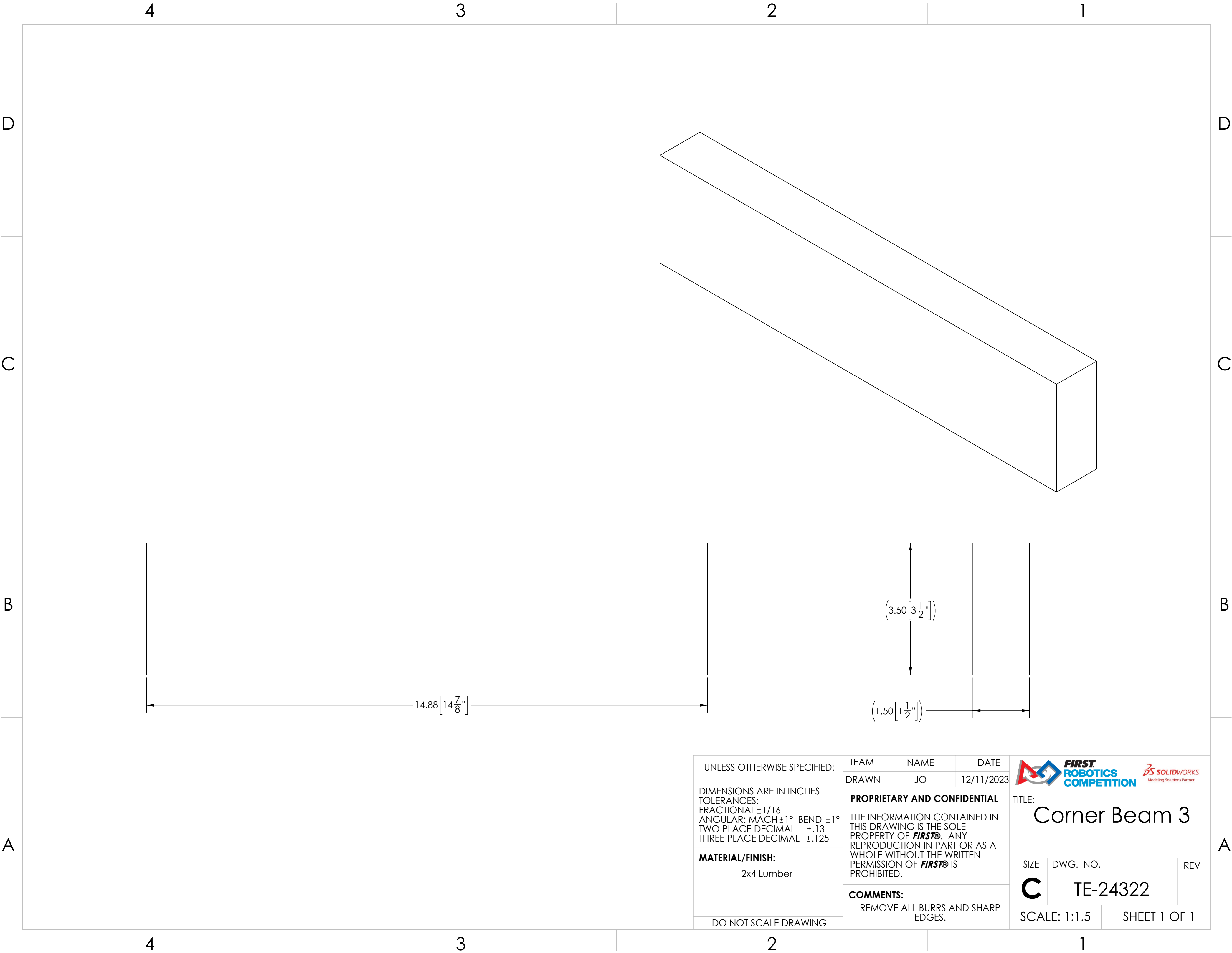
UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125  <b>MATERIAL/FINISH:</b>  2x4 Lumber   DO NOT SCALE DRAWING	TEAM	NAME	DATE	<div><div></div><div>TITLE: Corner Beam 2</div></div>		
	DRAWN	JO	12/11/2023			
	<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>	TE-24320	
		SCALE: 1:1.5		SHEET 1 OF 1		





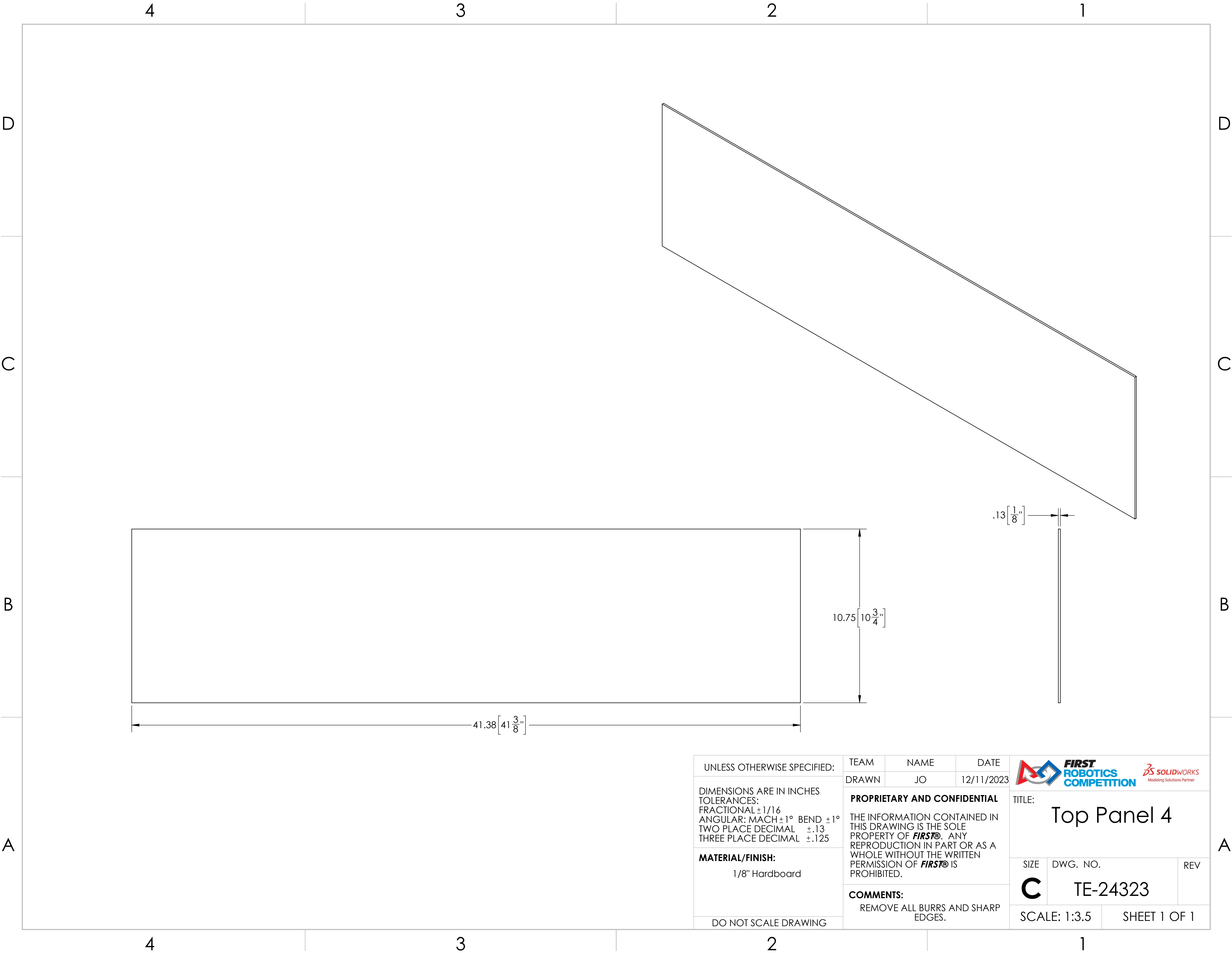
UNLESS OTHERWISE SPECIFIED:		TEAM	NAME	DATE
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$		DRAWN	JO	12/11/2023
<b>MATERIAL/FINISH:</b> 1/8" Hardboard		<b>PROPRIETARY AND CONFIDENTIAL</b>  THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.		
DO NOT SCALE DRAWING		<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		
		TITLE: <b>Top Panel 3</b>		
		SIZE <b>C</b>	DWG. NO. <b>TE-24321</b>	REV
		SCALE: 1:4		SHEET 1 OF 1





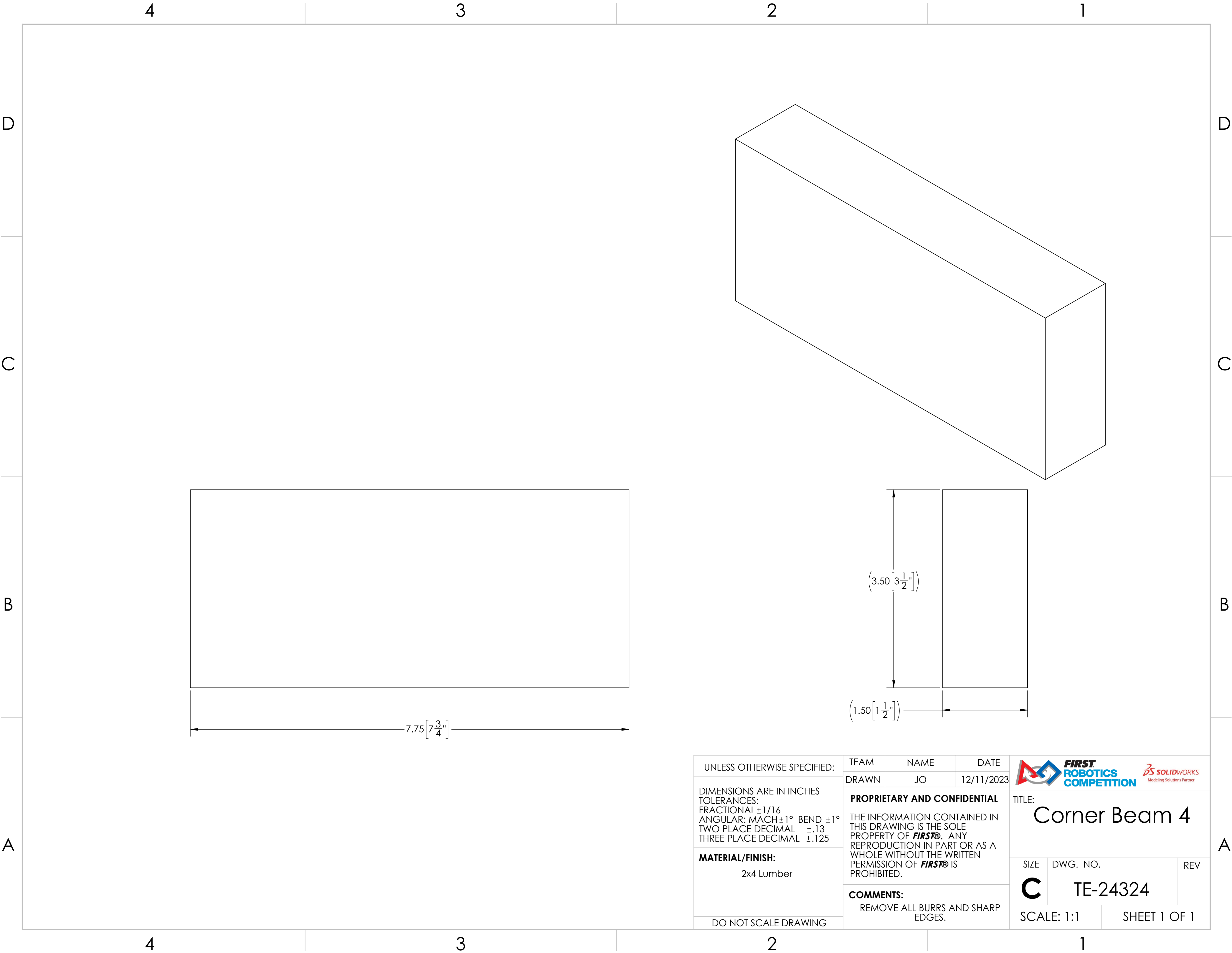






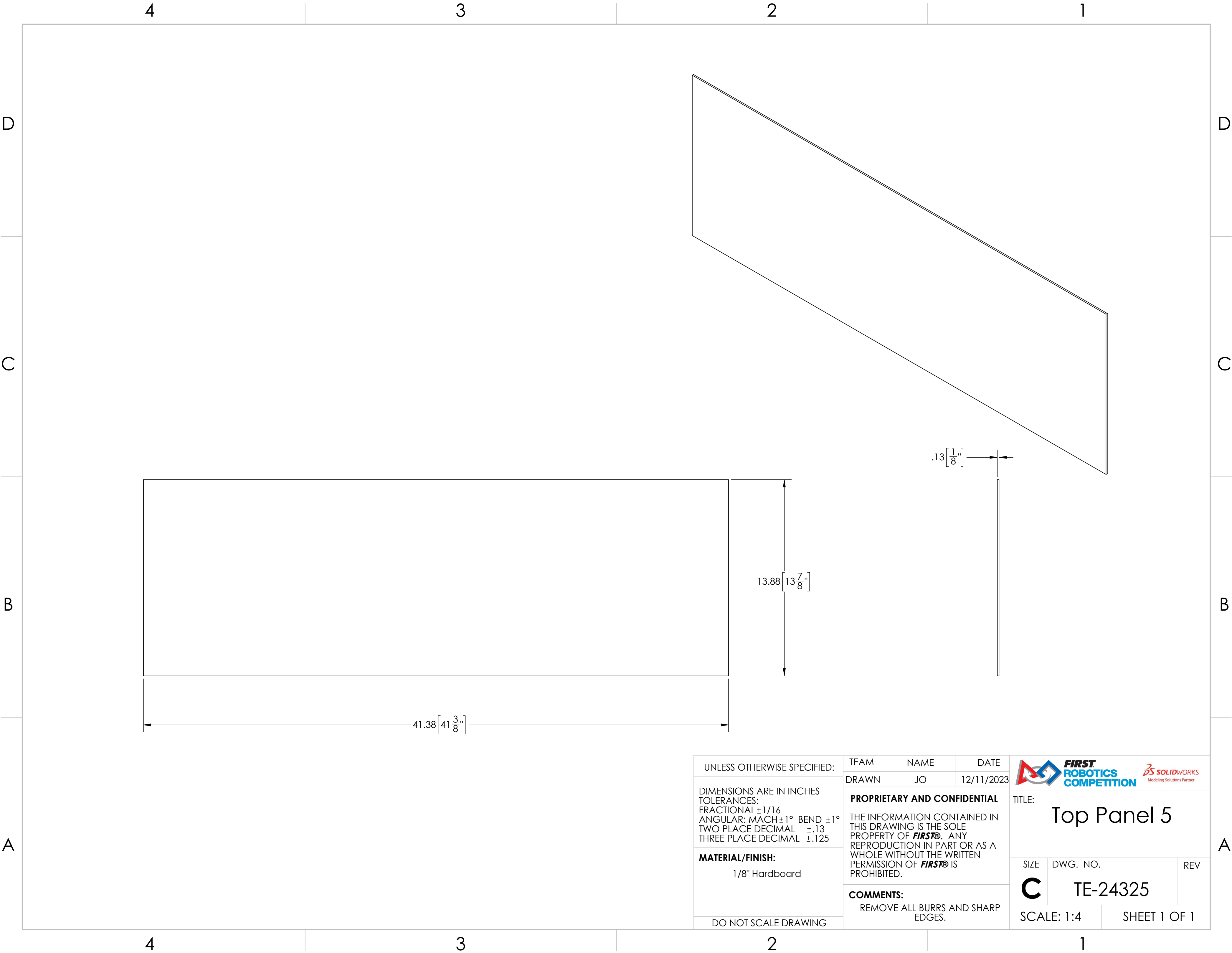
UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125  <b>MATERIAL/FINISH:</b>  2x4 Lumber   DO NOT SCALE DRAWING	TEAM	NAME	DATE	<div></div> <div>TITLE: <b>Corner Beam 3</b></div>		
	DRAWN	JO	12/11/2023			
	<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	TE-24322	
				SCALE: 1:1.5		SHEET 1 OF 1





UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE	<div></div> <div>TITLE: Top Panel 4</div>		
	DRAWN	JO	12/11/2023			
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	PROPRIETARY AND CONFIDENTIAL			SIZE C		
	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:			DWG. NO.		REV
MATERIAL/FINISH:  1/8" Hardboard	REMOVE ALL BURRS AND SHARP EDGES.			TE-24323		
	DO NOT SCALE DRAWING			SCALE: 1:3.5		
			SHEET 1 OF 1			



UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE	<div><div></div><div>TITLE: Corner Beam 4</div></div>		
	DRAWN	JO	12/11/2023			
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	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:					
MATERIAL/FINISH:  2x4 Lumber	REMOVE ALL BURRS AND SHARP EDGES.			SIZE	DWG. NO.	REV
				C	TE-24324	
DO NOT SCALE DRAWING				SCALE: 1:1		SHEET 1 OF 1



UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE	<div></div>		
	DRAWN	JO	12/11/2023			
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	<b>PROPRIETARY AND CONFIDENTIAL</b>			TITLE:		
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			Top Panel 5		
	<b>MATERIAL/FINISH:</b>  1/8" Hardboard			SIZE	DWG. NO.	REV
DO NOT SCALE DRAWING	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			C	TE-24325	
				SCALE: 1:4		SHEET 1 OF 1

4

3

2

1

D

C

B

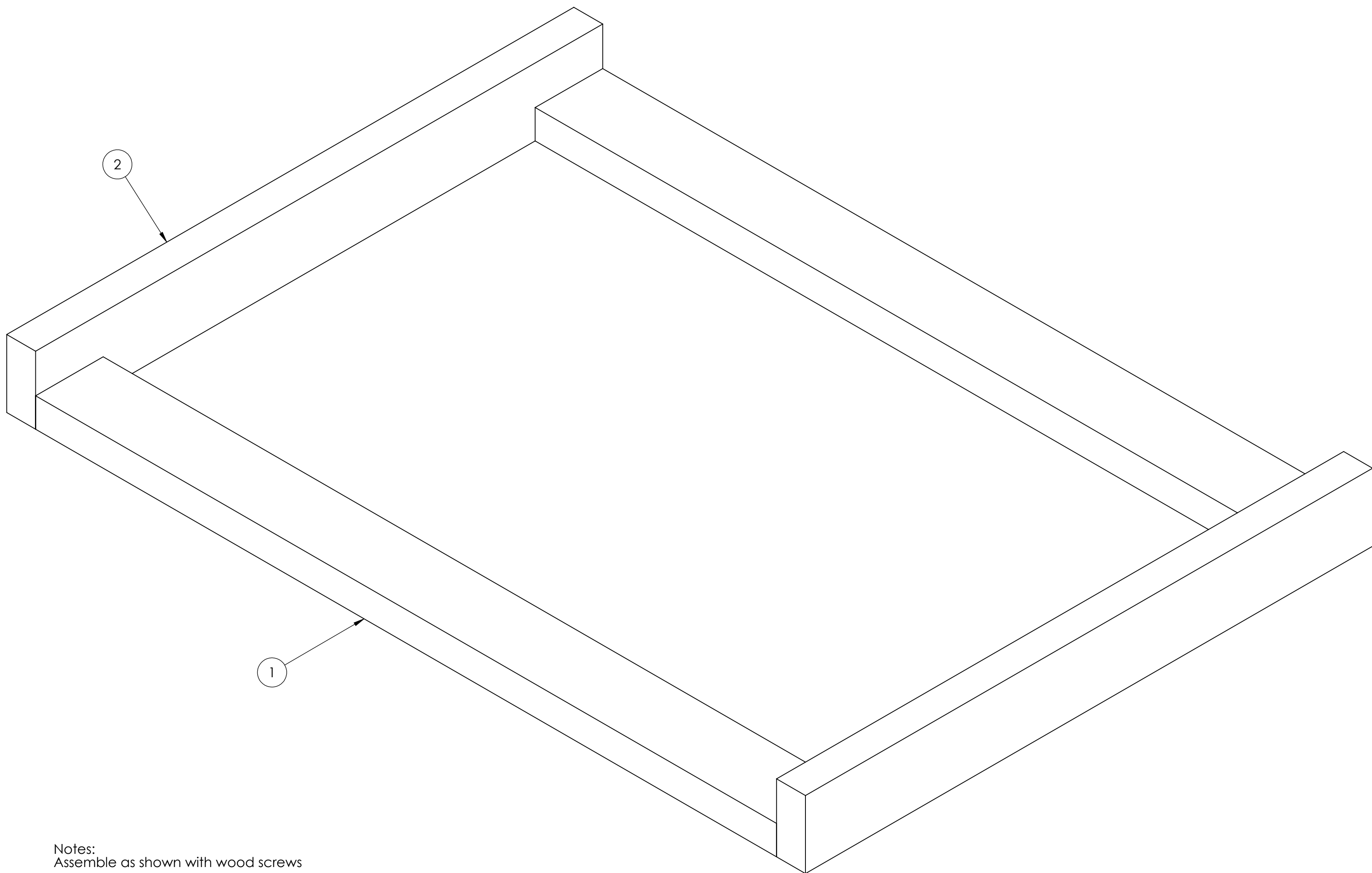
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4

3



2

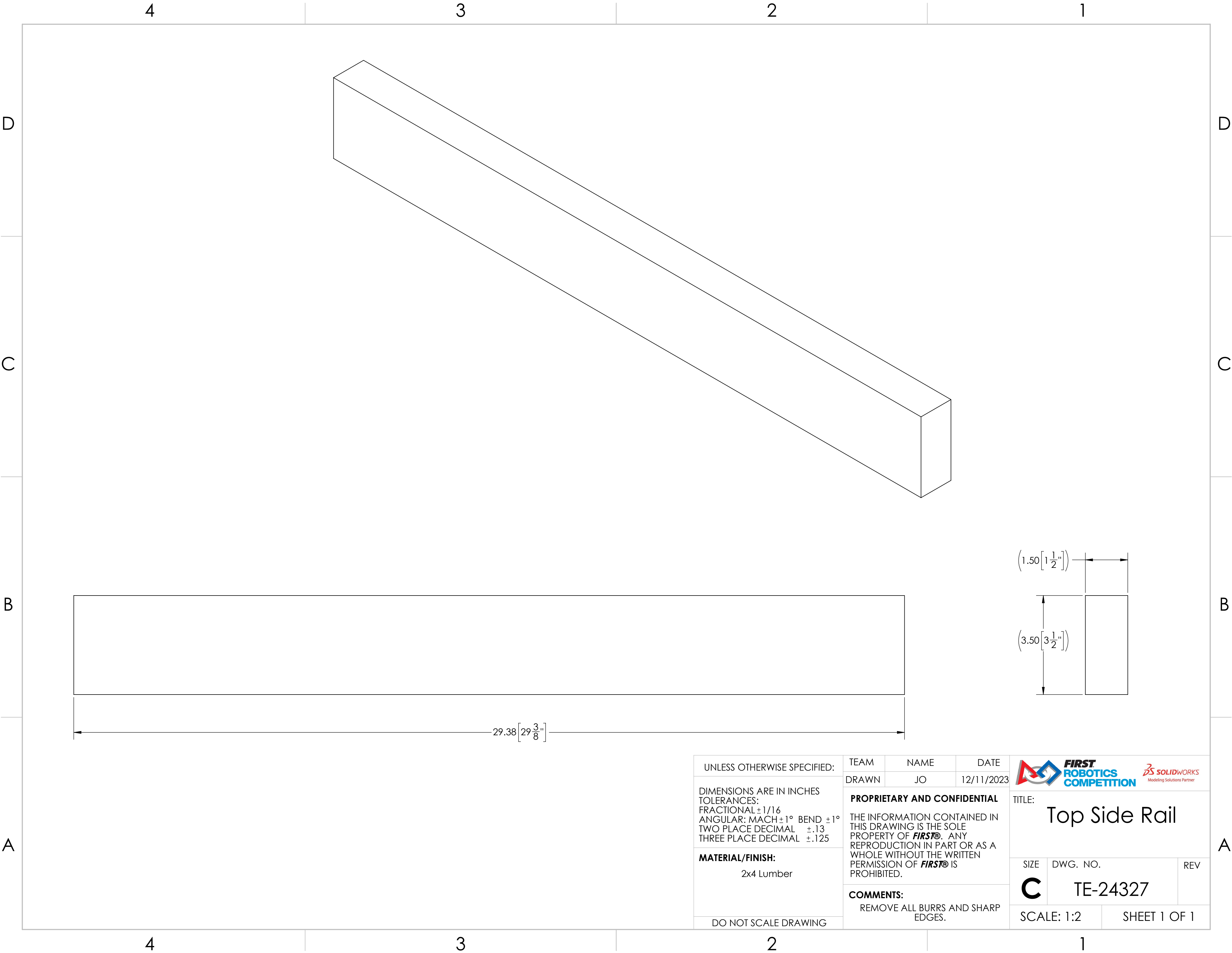
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Notes:  
Assemble as shown with wood screws

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TE-24304	Crossbar	2
2	TE-24327	Top Side Rail	2

UNLESS OTHERWISE SPECIFIED:		TEAM		NAME		DATE	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$		DRAWN		JO		12/11/2023	
		<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.					
MATERIAL/FINISH:		 <b>FIRST ROBOTICS COMPETITION</b> 					
DO NOT SCALE DRAWING							
		TITLE: <h1>Top Flat Frame</h1>					
		SIZE		DWG. NO.		REV	
		C		TE-24326			
		SCALE: 1:3			SHEET 1 OF 1		





4

3

2

1

D

D

C

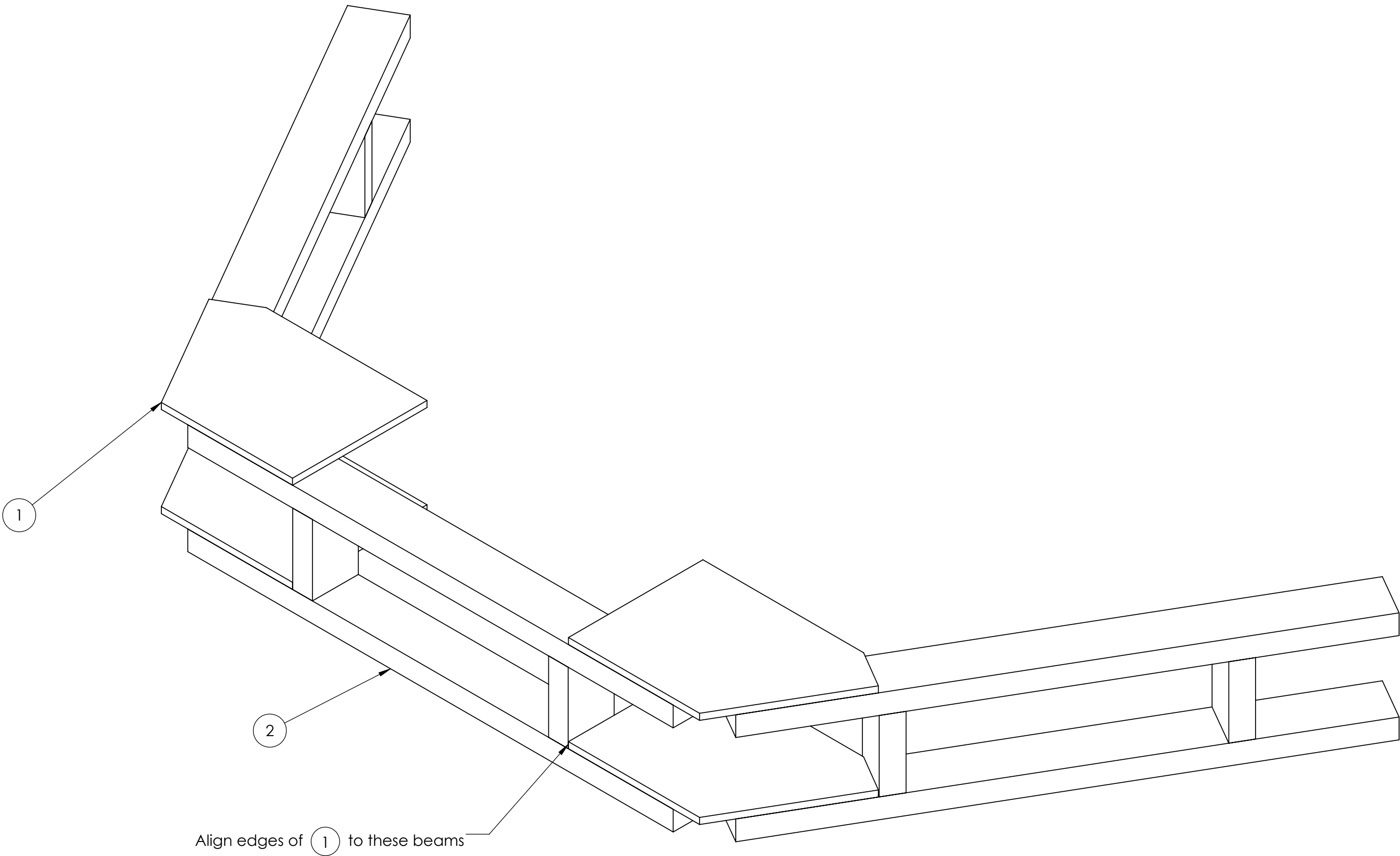
C

B

B



A

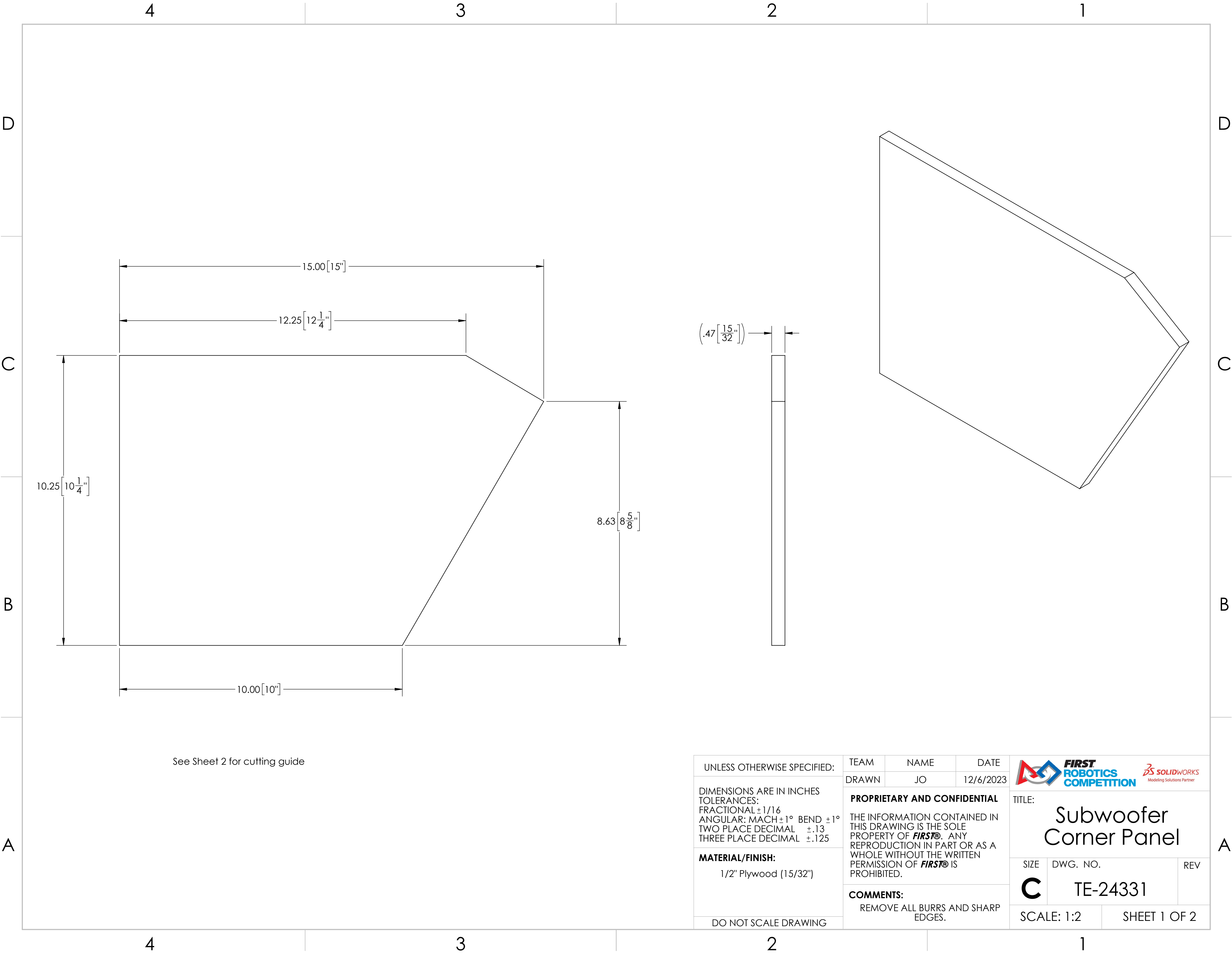
A





Notes:  
Assemble as shown with wood screws. (2) may need to be disassembled slightly to access some screw head locations.

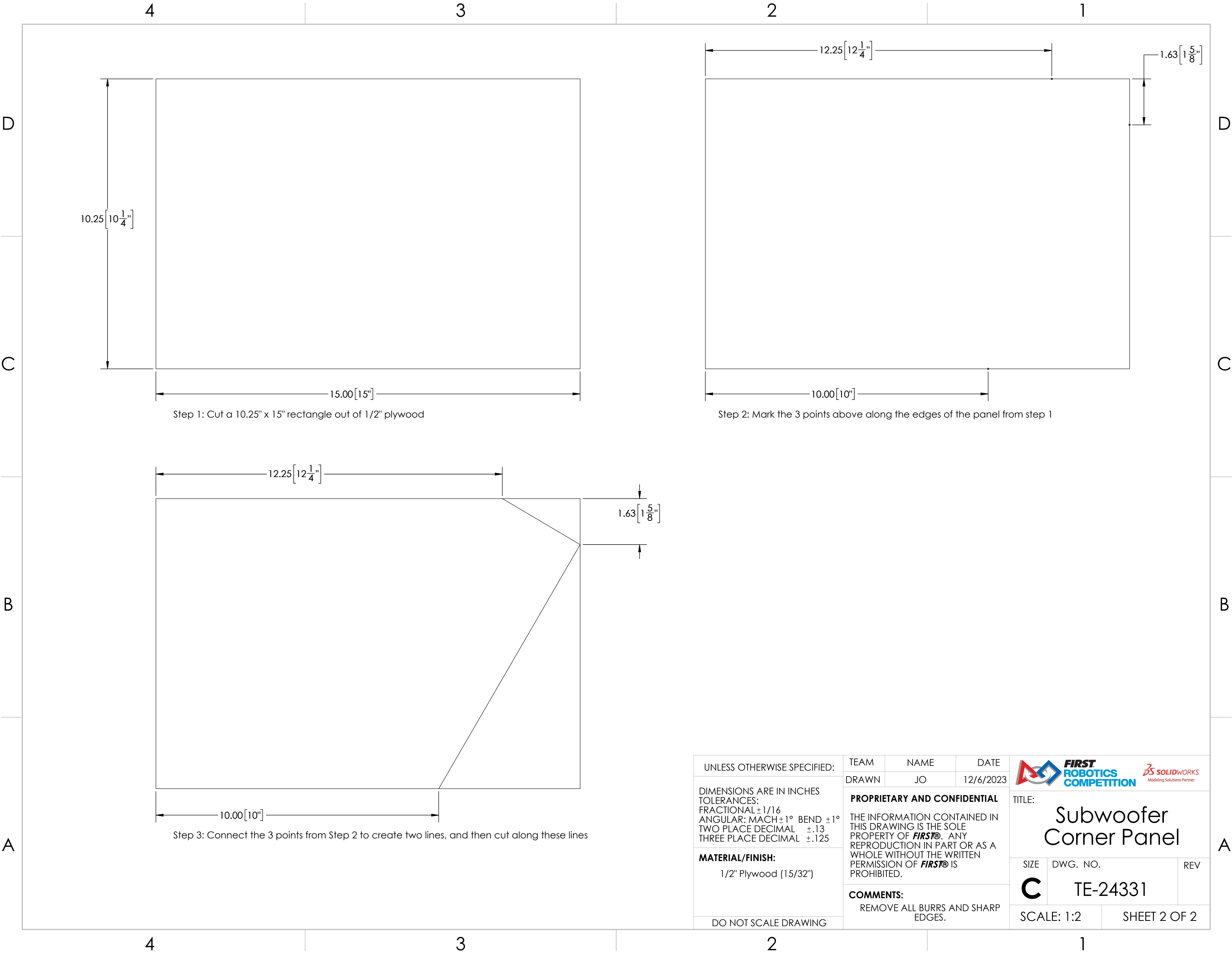
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TE-24331	Subwoofer Corner Panel	4
2	TE-24332	Subwoofer Frame	3



UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$  <b>MATERIAL/FINISH:</b>          DO NOT SCALE DRAWING	TEAM DRAWN	NAME JO	DATE 12/11/2023	 		
	<b>PROPRIETARY AND CONFIDENTIAL</b>  THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			TITLE:  <b>Subwoofer Assembly</b>		
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			SIZE <b>C</b>	DWG. NO. <b>TE-24330</b>	REV
				SCALE: 1:5		SHEET 1 OF 1

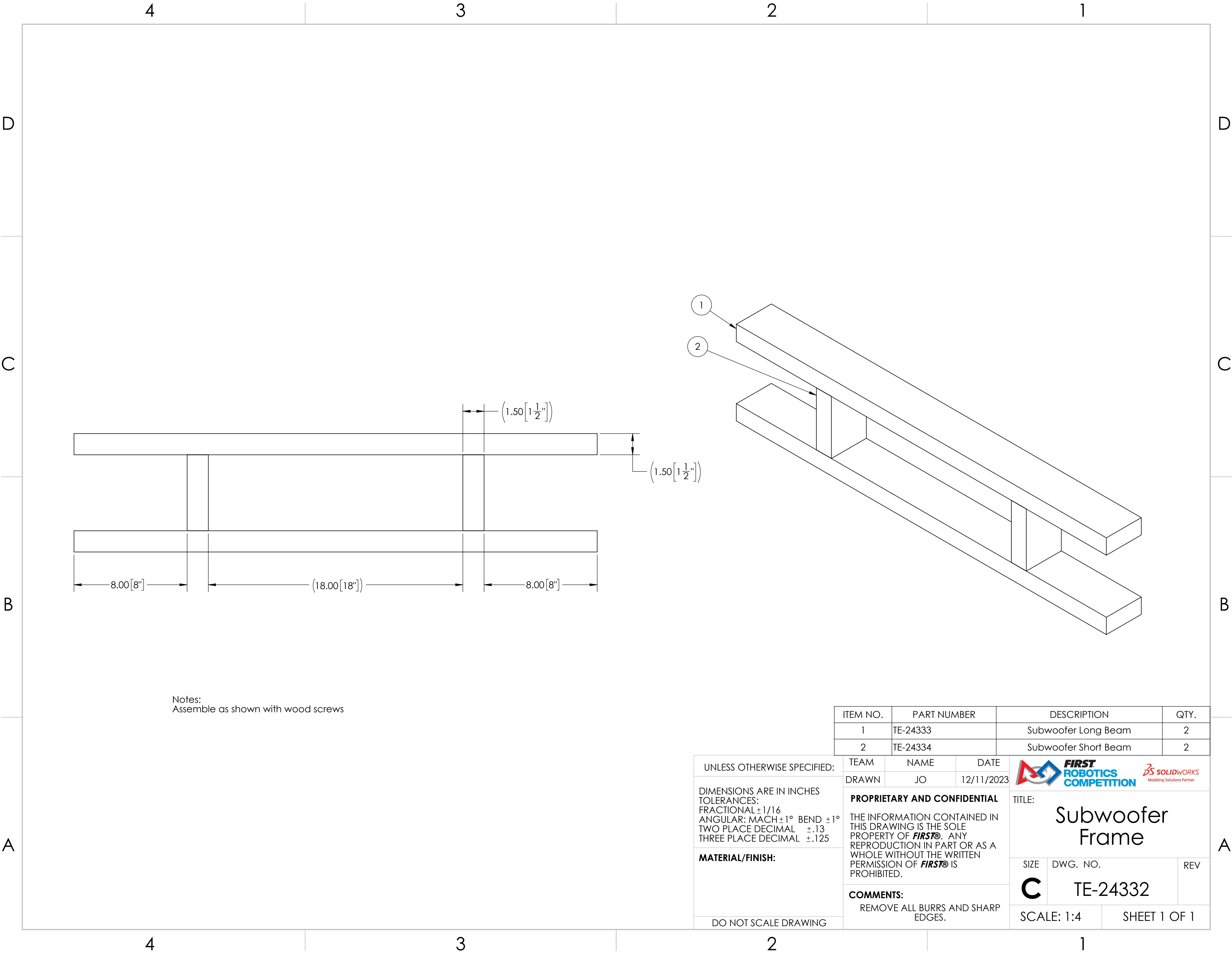


See Sheet 2 for cutting guide

UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE	<div></div> <div>TITLE: <h1>Subwoofer Corner Panel</h1></div>	
	DRAWN	JO	12/6/2023		
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	PROPRIETARY AND CONFIDENTIAL			SIZE <b>C</b>	
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.				
MATERIAL/FINISH:  1/2" Plywood (15/32")	COMMENTS:			DWG. NO.	
	REMOVE ALL BURRS AND SHARP EDGES.			REV	
DO NOT SCALE DRAWING				TE-24331	
			SCALE: 1:2		SHEET 1 OF 2





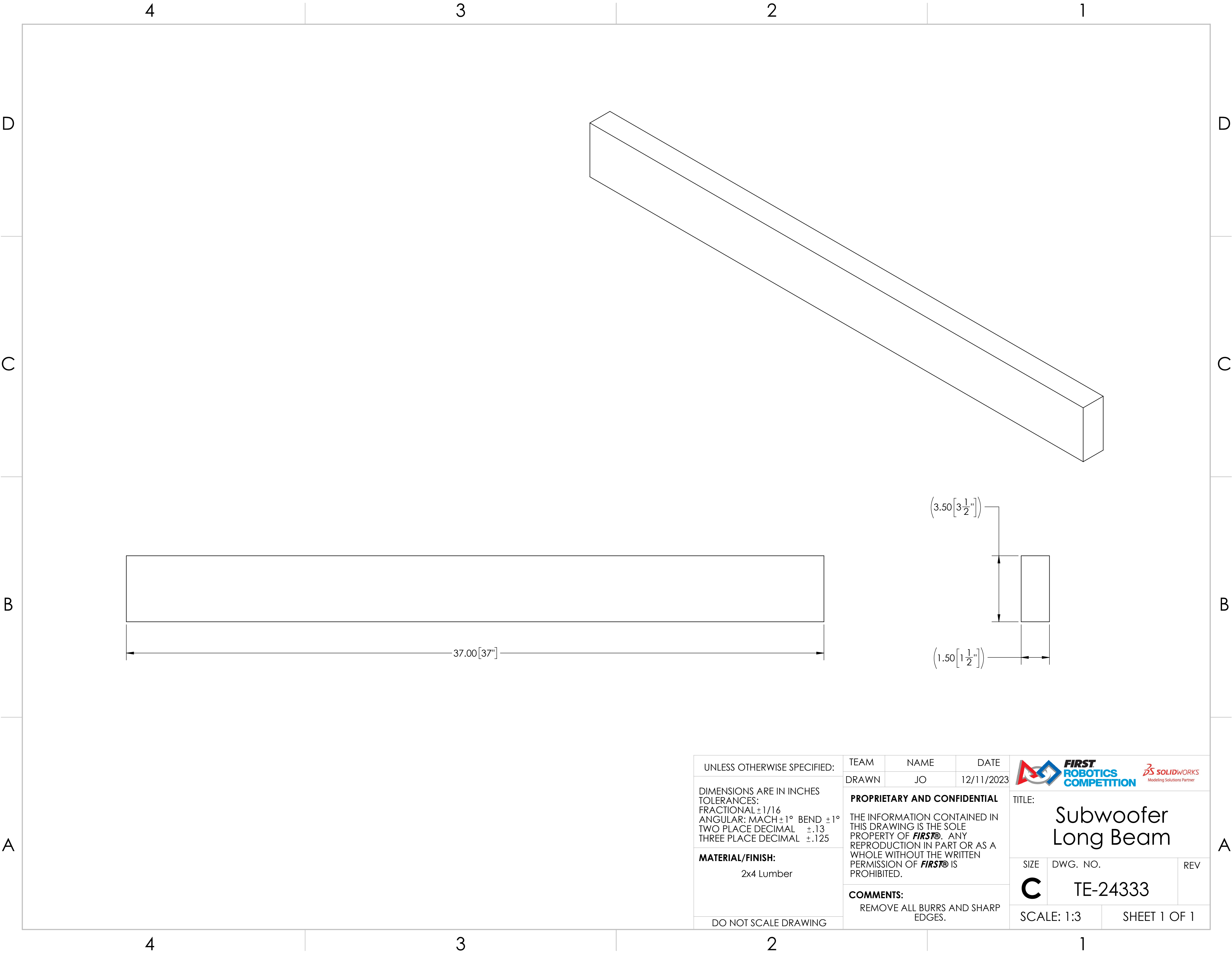
UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE	<div></div>		
	DRAWN	JO	12/6/2023			
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	<b>PROPRIETARY AND CONFIDENTIAL</b>			TITLE:  Subwoofer Corner Panel		
	THE INFORMATION CONTAINED 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.					
<b>MATERIAL/FINISH:</b>  1/2" Plywood (15/32")				SIZE <b>C</b>	DWG. NO.  TE-24331	REV
DO NOT SCALE DRAWING				SCALE: 1:2		SHEET 2 OF 2





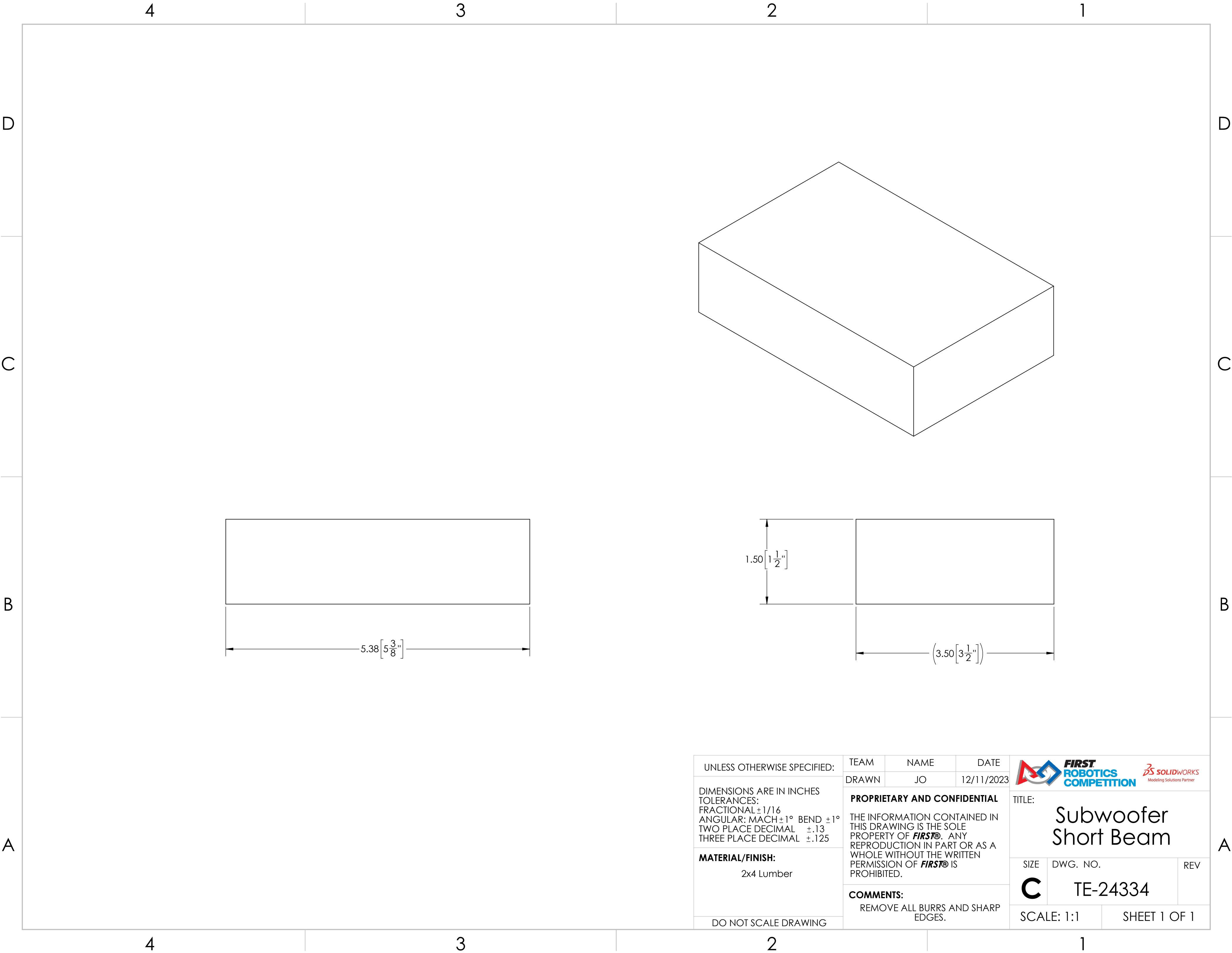
Notes:  
Assemble as shown with wood screws



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TE-24333	Subwoofer Long Beam	2
2	TE-24334	Subwoofer Short Beam	2

UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE	<div><div>FIRST ROBOTICS COMPETITION</div></div> <div><div>SOLIDWORKS Modeling Solutions Partner</div></div>		
	DRAWN	JO	12/11/2023			
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$	<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:  Subwoofer Frame		
	<b>MATERIAL/FINISH:</b>			SIZE	DWG. NO.	REV
DO NOT SCALE DRAWING	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			C	TE-24332	
				SCALE: 1:4		SHEET 1 OF 1



UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$  <b>MATERIAL/FINISH:</b>  2x4 Lumber   DO NOT SCALE DRAWING	TEAM	NAME	DATE	<div></div>		
	DRAWN	JO	12/11/2023			
	<b>PROPRIETARY AND CONFIDENTIAL</b>			TITLE:		
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>FIRST®</b> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <b>FIRST®</b> IS PROHIBITED.			<div>Subwoofer Long Beam</div>		
<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.		SIZE	DWG. NO.	REV		
		<b>C</b>	TE-24333		SCALE: 1:3	SHEET 1 OF 1



UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125  <b>MATERIAL/FINISH:</b> 2x4 Lumber  DO NOT SCALE DRAWING	TEAM	NAME	DATE	<div></div>		
	DRAWN	JO	12/11/2023			
	<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: <div>Subwoofer Short Beam</div>		
	<b>COMMENTS:</b> REMOVE ALL BURRS AND SHARP EDGES.			SIZE <b>C</b>	DWG. NO. TE-24334	REV
SCALE: 1:1		SHEET 1 OF 1				