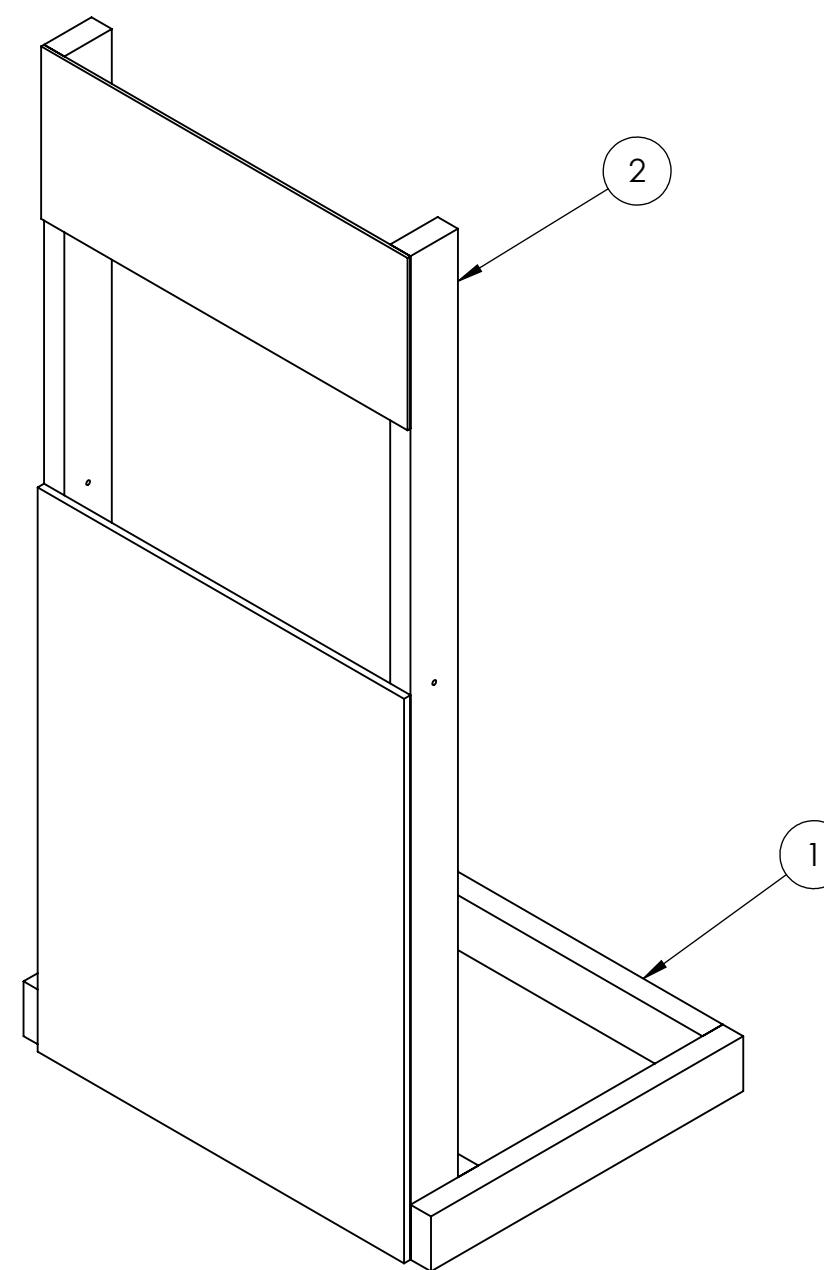


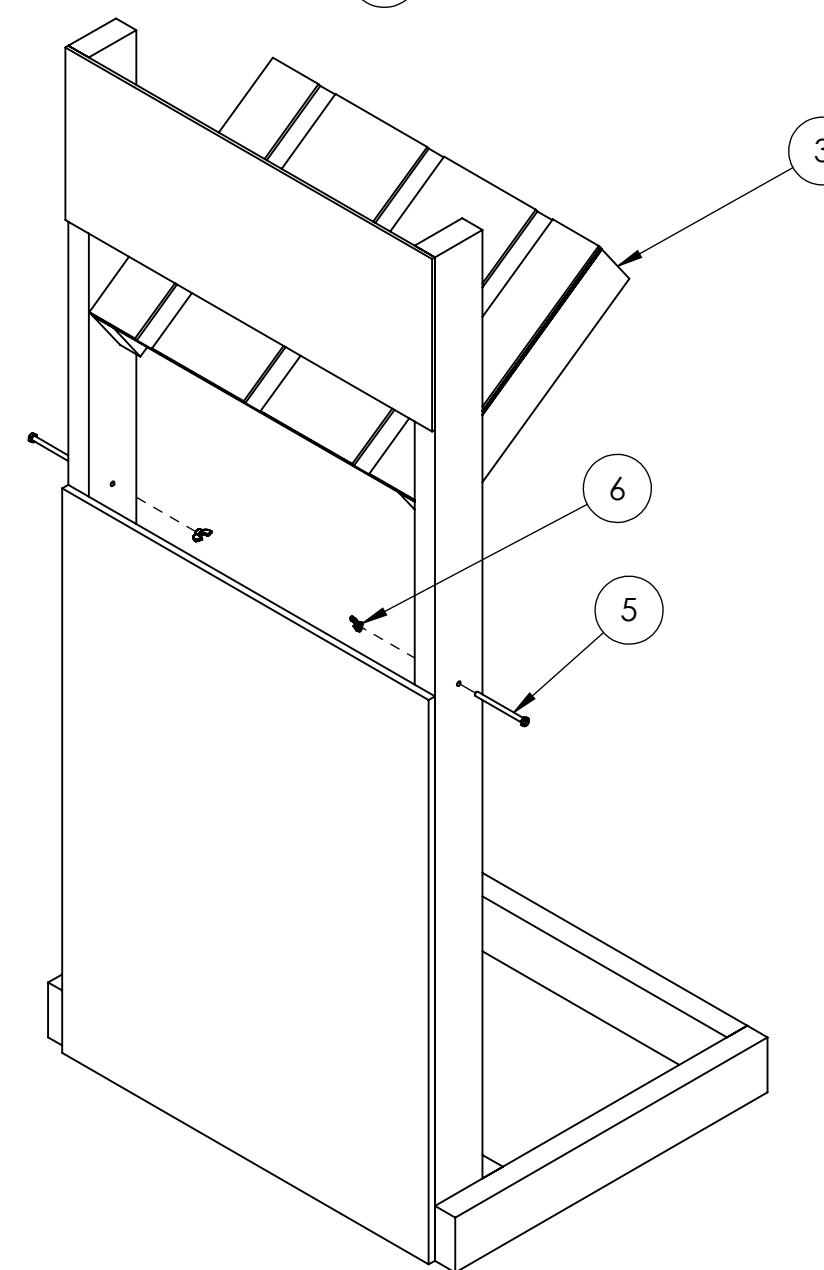
Step 1: Cut and assemble all subassemblies and parts shown in the Bill of Materials.

Step 2: Attach (1) to (2) with wood screws as shown.



Step 3: Attach (3) to the assembly using (5) and (6) through the drilled holes in each part.

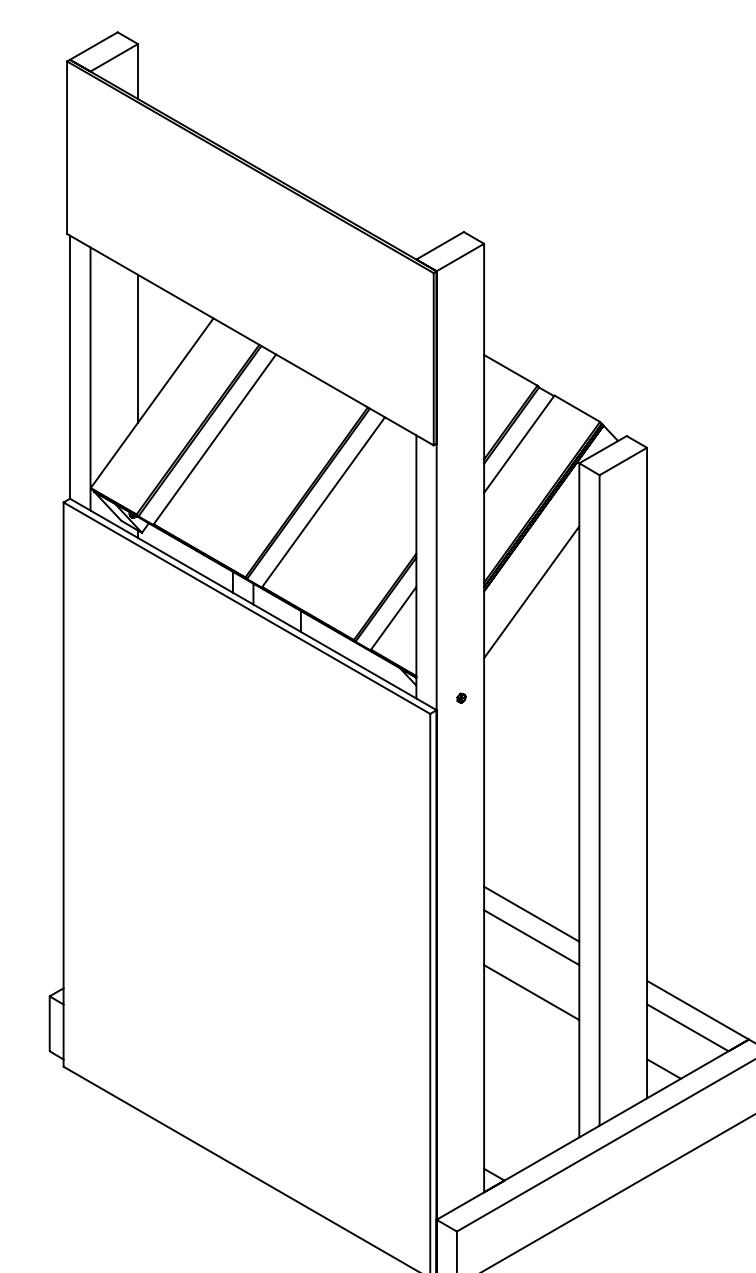
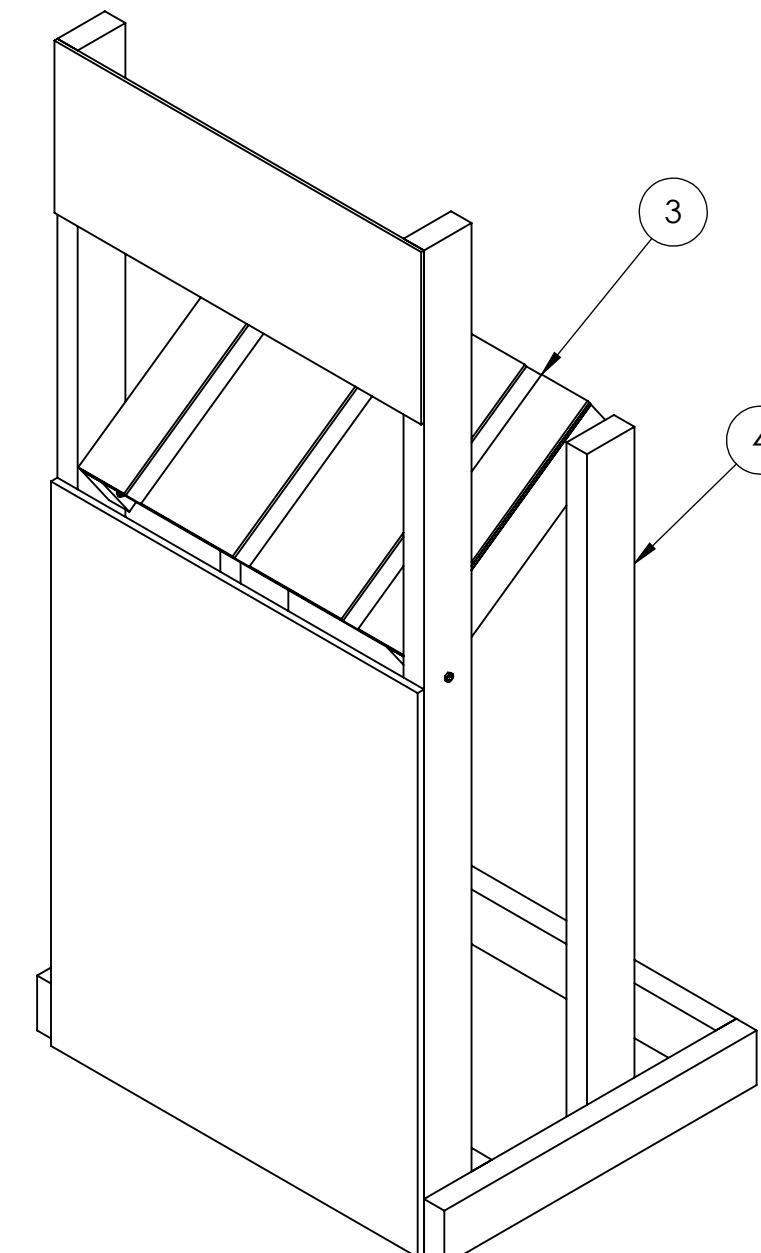
Leave this loose enough that (3) can rotate freely.



Step 4: Using a Leveling App on your phone, rotate (3) until it is at a 35 degree angle from the floor.

Then use both (4)s to lock (3) into place by attach them with wood scres to the rest of the assembly.

Go back and tighten (5) and (6) after confirming the angle of (3) is correct.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TE-25001	Coral Station Floor Frame	1
2	TE-25004	Coral Station Front Frame	1
3	TE-25007	Coral Station Ramp Frame	1
4	TE-25010	Coral Station Back Height Beam	2
5	Configurable Bolt	1/4-20 Hex Head 3.5" Long	2
6	wing_.25_20	Steel Wing Nut, 1/4"-20, 31/64" Base Diameter	2

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		DRAWN	JO	12/13/2024
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COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.				
DO NOT SCALE DRAWING				

FIRST ROBOTICS COMPETITION **SOLIDWORKS**
Modeling Solutions Partner

TITLE: TE Coral Station

SIZE DWG. NO. REV

C TE-25000

SCALE: 1:10 **SHEET** 1 OF 1

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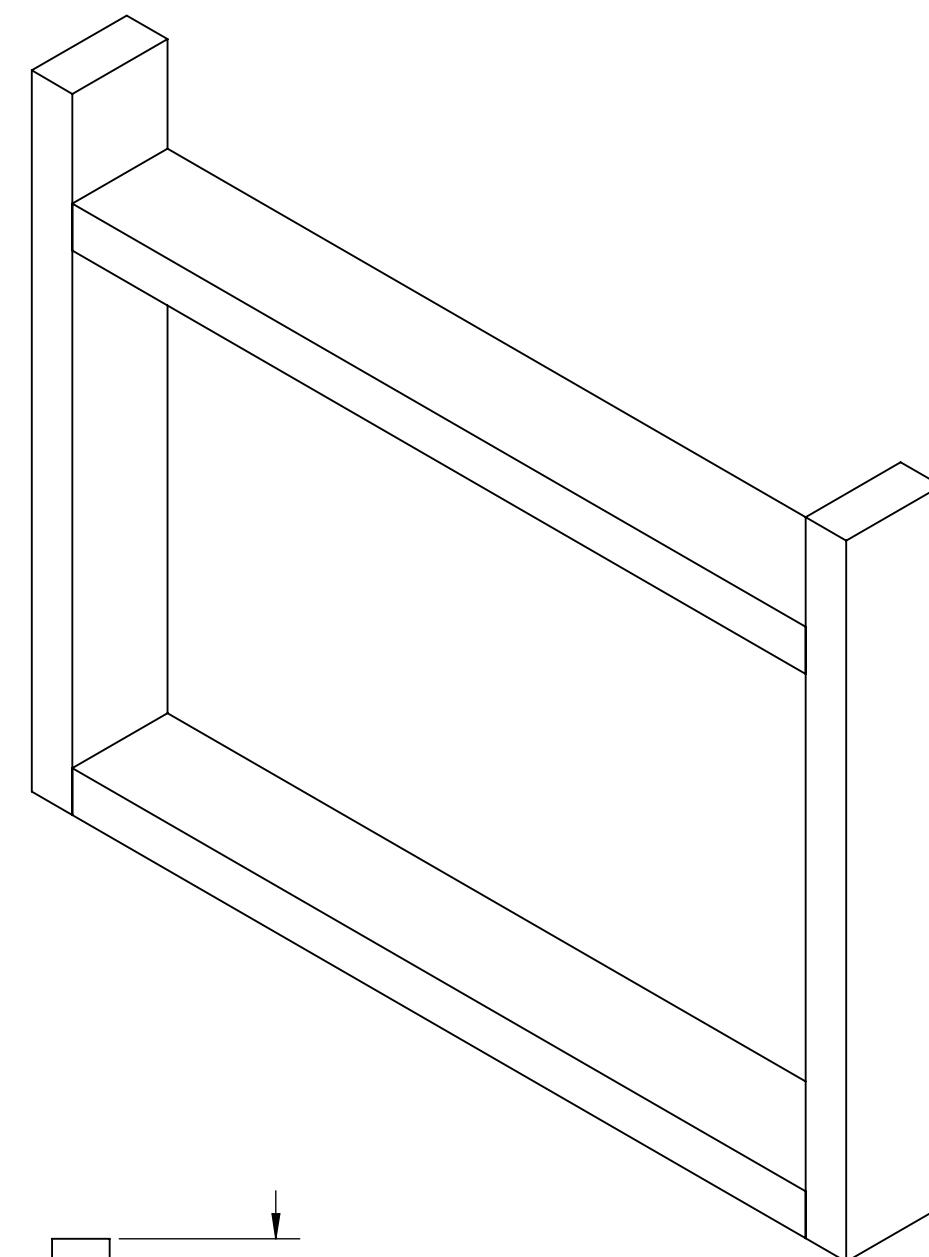
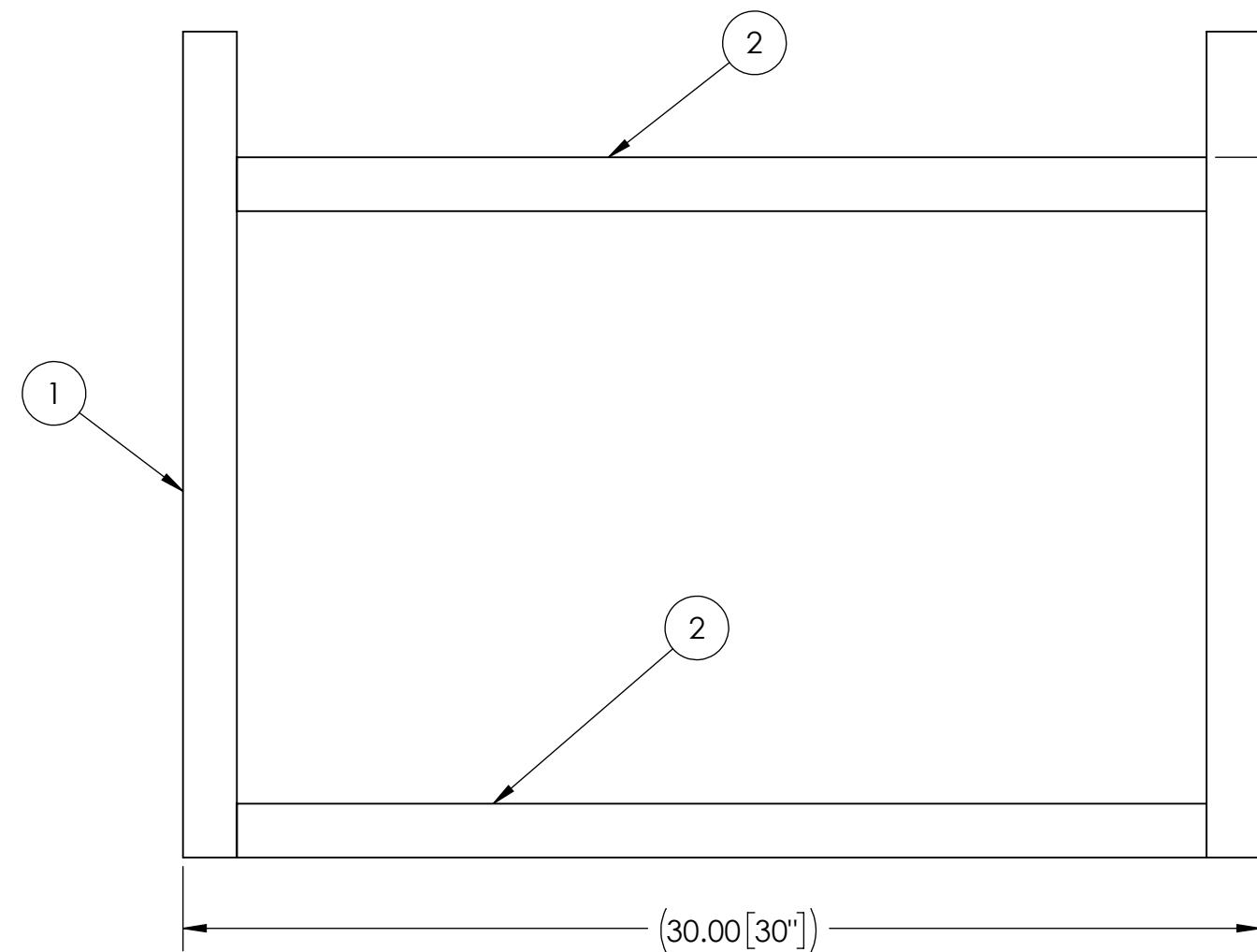
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TE-25002	Coral Station Floor Depth Beam	2
2	TE-25003	Coral Station Floor Width Beam	2

UNLESS OTHERWISE SPECIFIED:			TEAM	NAME	DATE
			DRAWN	JO	12/12/2024
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 $\pm .125$					
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MATERIAL/FINISH:					
COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.					
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 **FIRST
ROBOTICS
COMPETITION**  **SOLIDWORKS**
 Modeling Solutions Partner

TITLE: **Coral Station Floor Frame**
 SIZE: DWG. NO. **C TE-25001** REV

SCALE: 1:5 SHEET 1 OF 1

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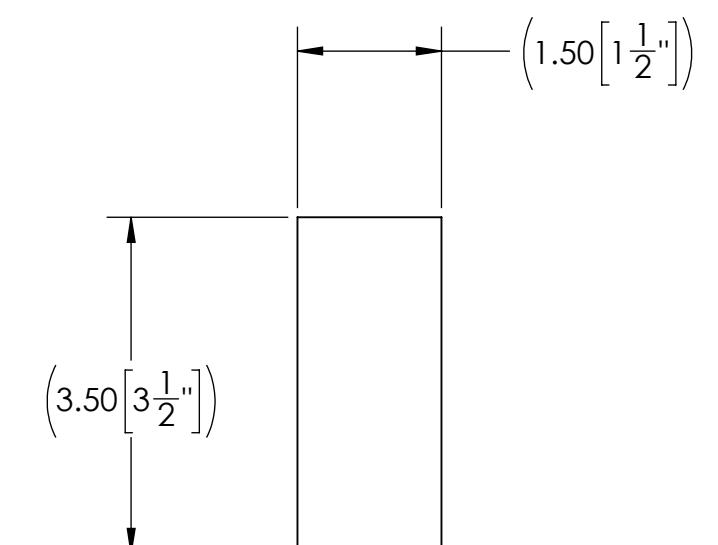
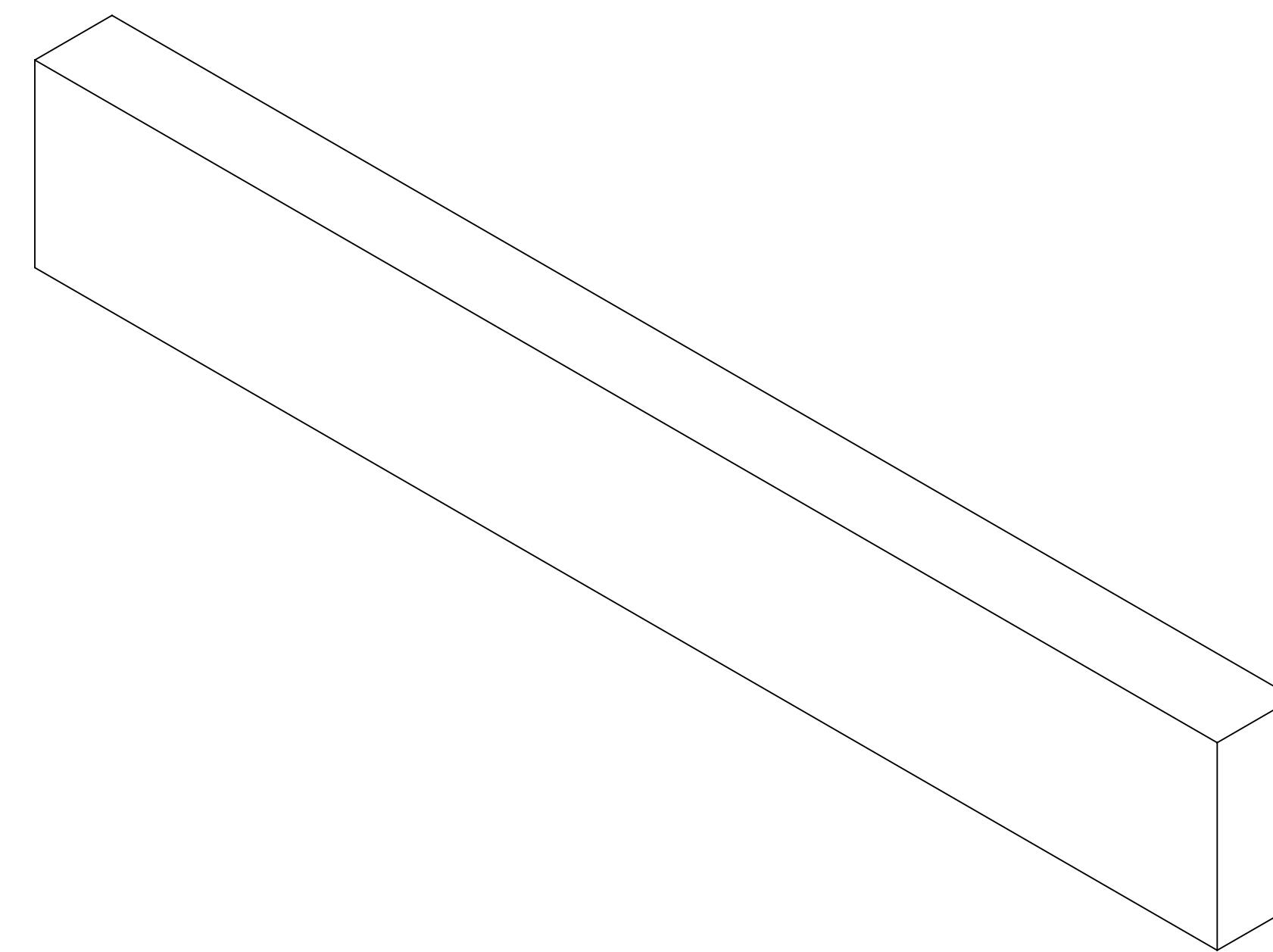
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DRAWN	JO	12/6/2024	
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MATERIAL/FINISH: 2x4 Lumber			
COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			
DO NOT SCALE DRAWING			

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COMPETITION**  **SOLIDWORKS**
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TITLE: **Coral Station
Floor Depth
Beam**

SIZE DWG. NO. REV
C TE-25002

SCALE: 1:2 SHEET 1 OF 1

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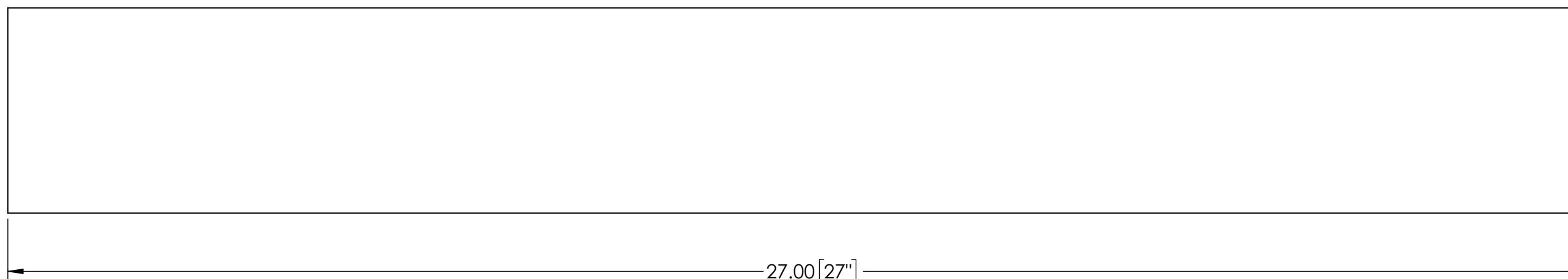
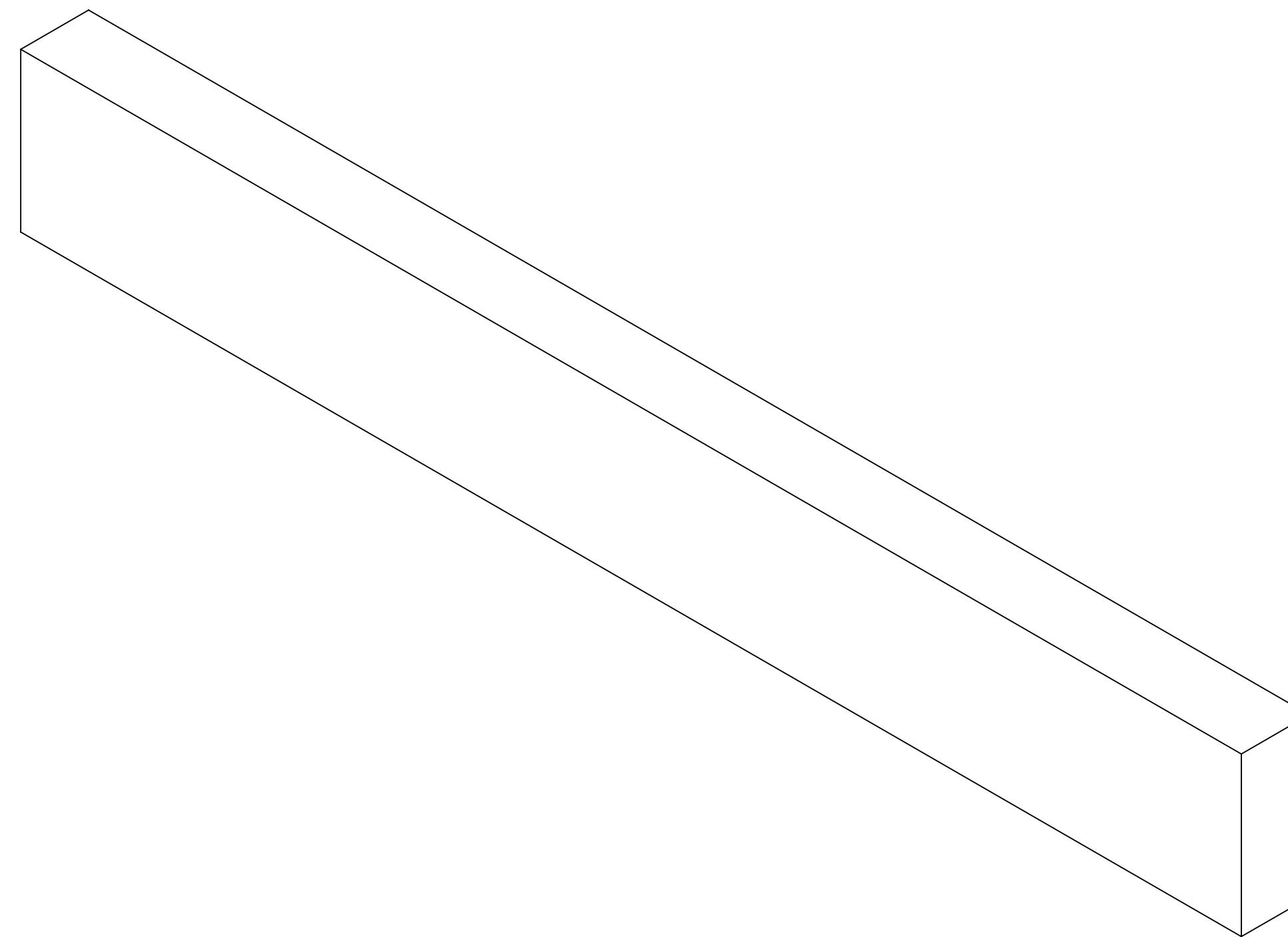
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DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$	DRAWN	JO	12/6/2024
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MATERIAL/FINISH: 2x4 Lumber			
COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			
DO NOT SCALE DRAWING			

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TITLE: **Coral Station Floor Width Beam**
SIZE DWG. NO. REV
C TE-25003

SCALE: 1:2 SHEET 1 OF 1

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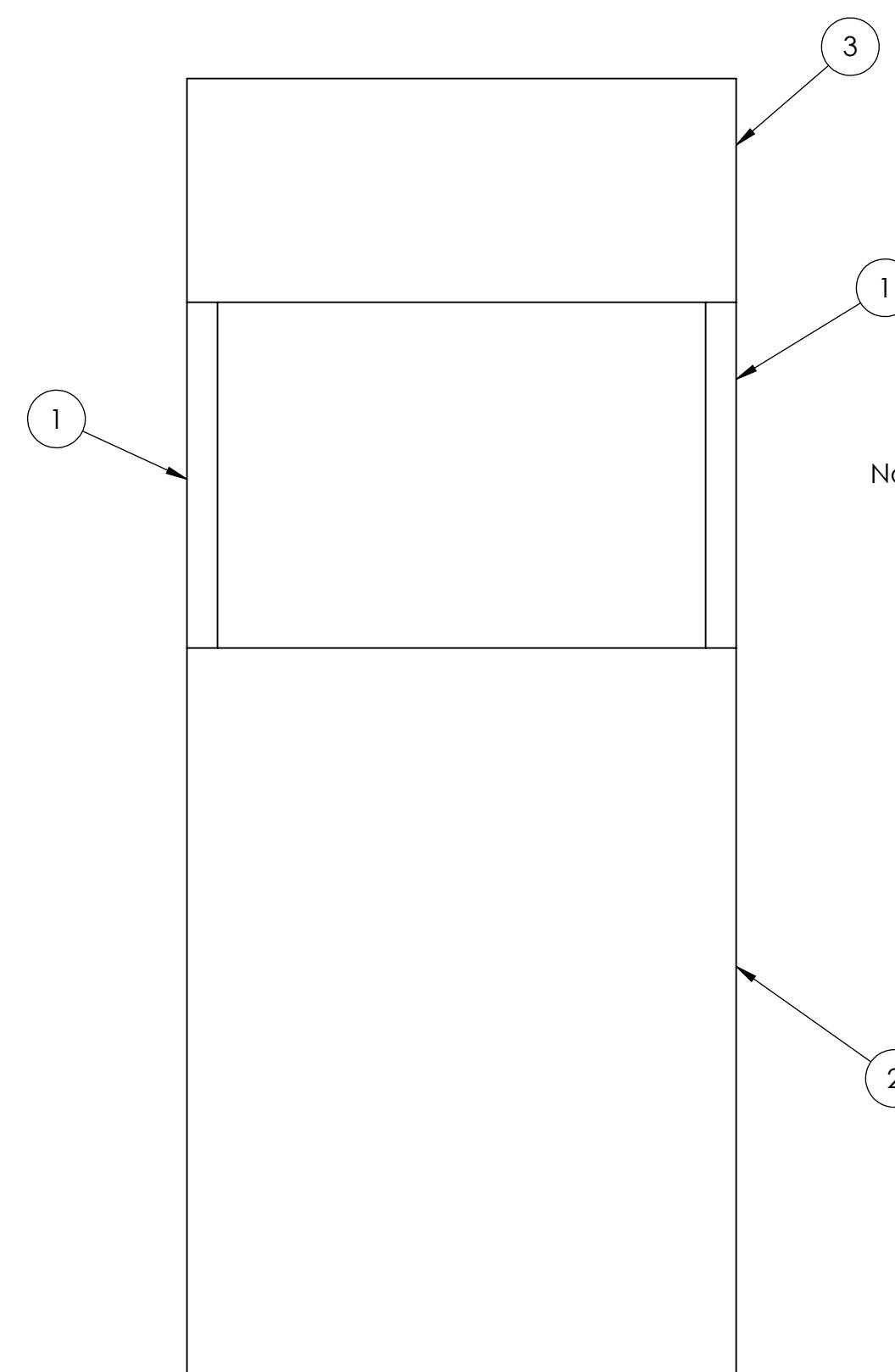
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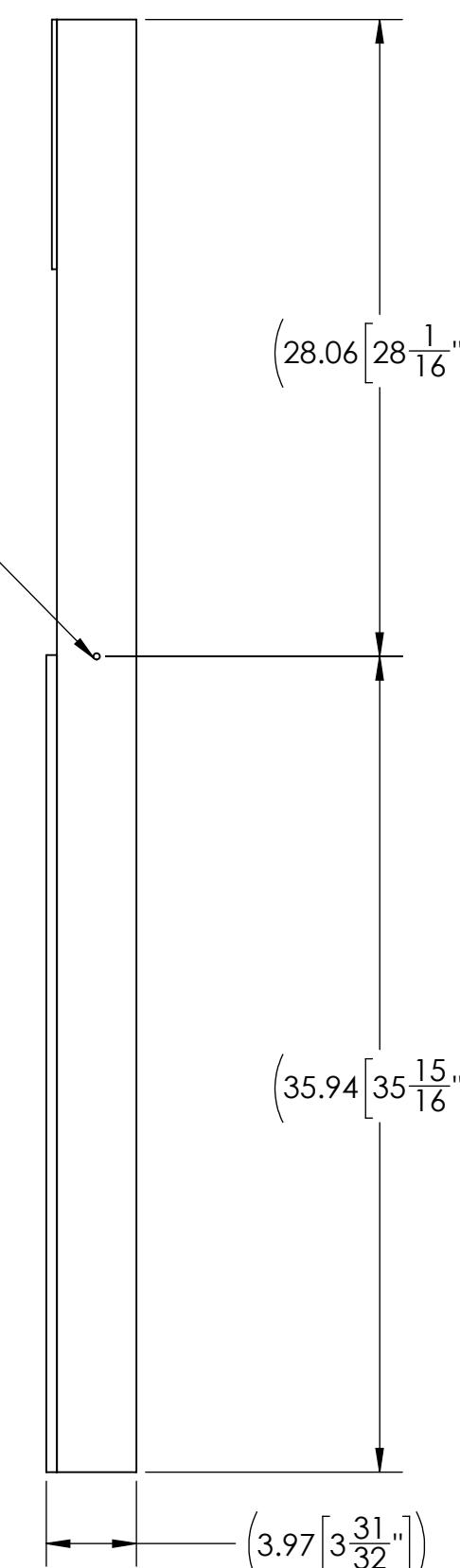
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Note which panel this hole is closer to

Assemble with Wood Screws



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TE-25005	Coral Station Front Height Beam	2
2	TE-25006	Coral Station Front Wall	1
3	TE-25013	Coral Station April Tag Panel	1

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			DRAWN	JO	12/12/2024
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 $\pm .125$					
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MATERIAL/FINISH:					
COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.					
DO NOT SCALE DRAWING					

FIRST
ROBOTICS
COMPETITION

SOLIDWORKS
Modeling Solutions Partner

TITLE:
**Coral Station
Front Frame**

SIZE DWG. NO. REV
C TE-25004

SCALE: 1:8 SHEET 1 OF 1

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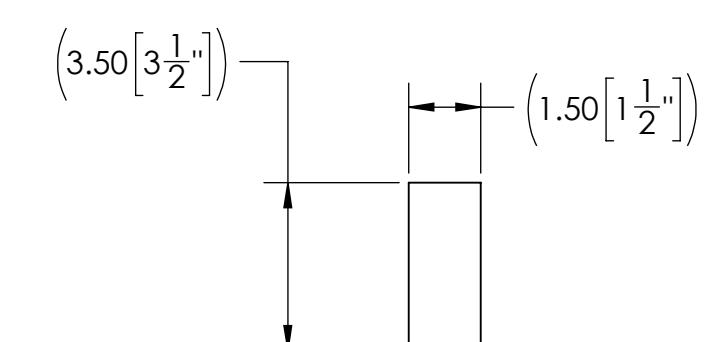
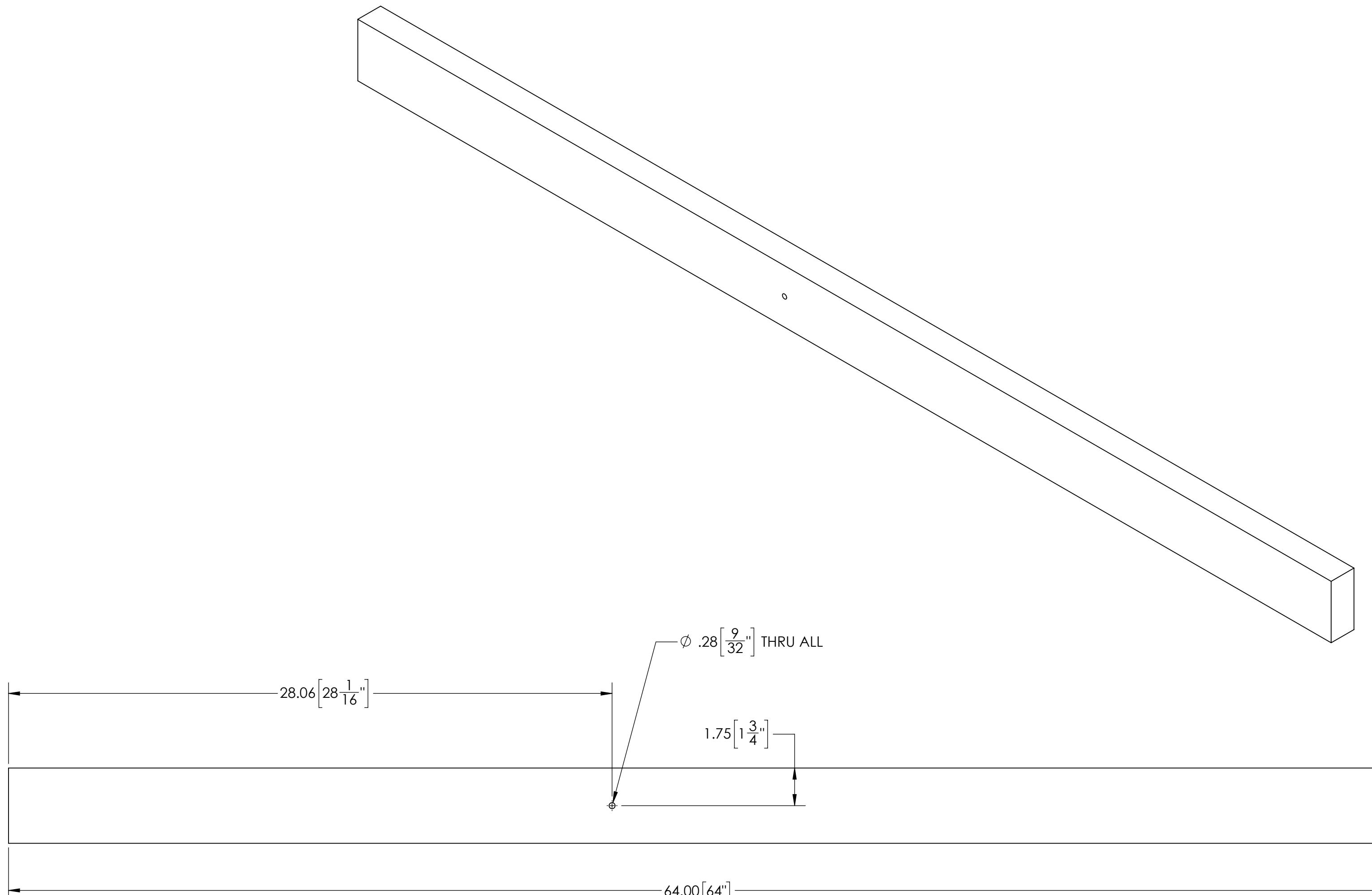
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DIMENSIONS ARE IN INCHES	DRAWN	JO	12/6/2024
TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$			
TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$			
MATERIAL/FINISH:	SIZE	DWG. NO.	REV
2x4 Lumber	C	TE-25005	
COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			
DO NOT SCALE DRAWING			

FIRST
ROBOTICS
COMPETITION

SOLIDWORKS
Modeling Solutions Partner

TITLE: Coral Station
Front Height
Beam

SIZE DWG. NO. REV
C TE-25005
SCALE: 1:4 SHEET 1 OF 1

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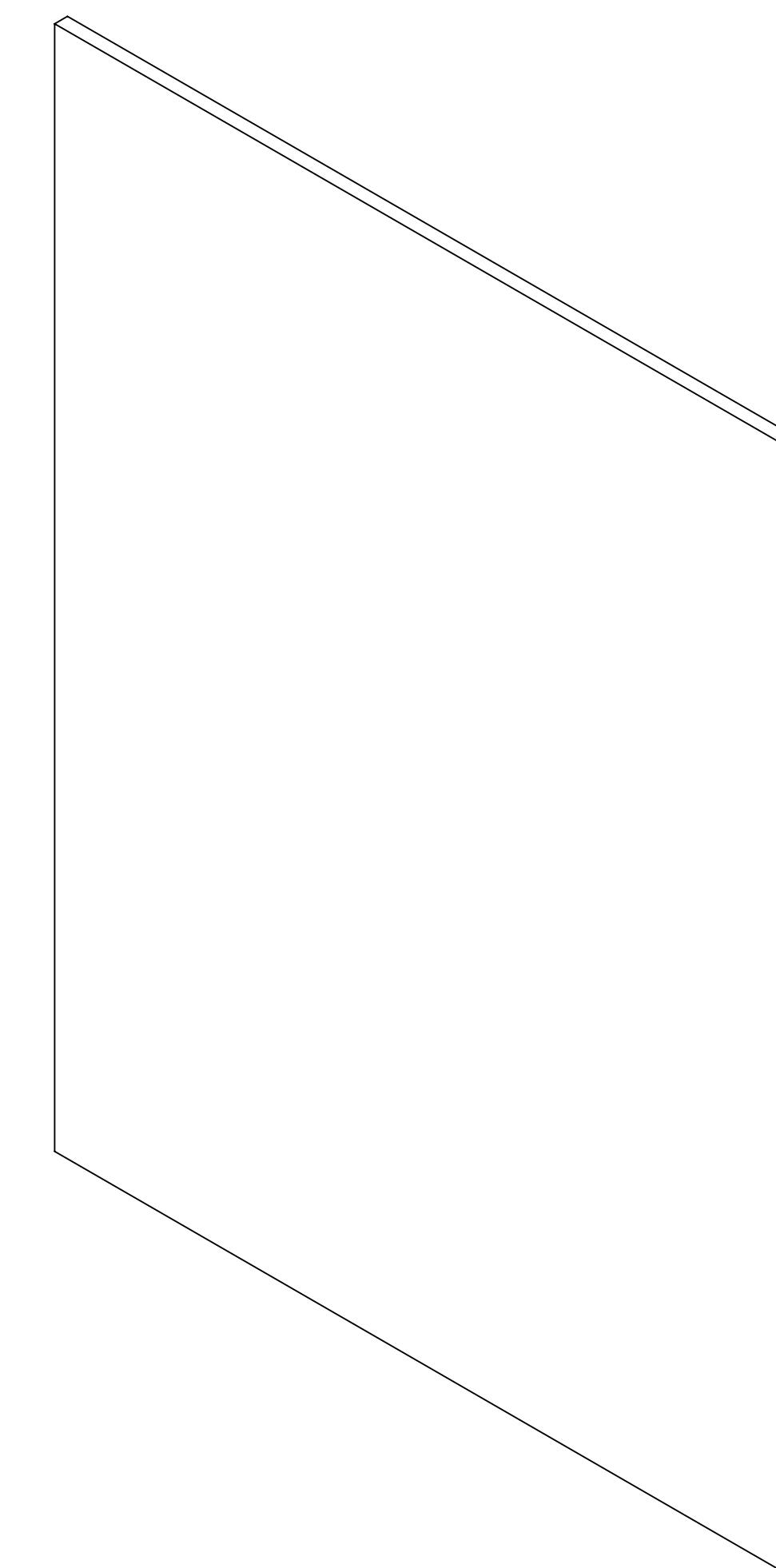
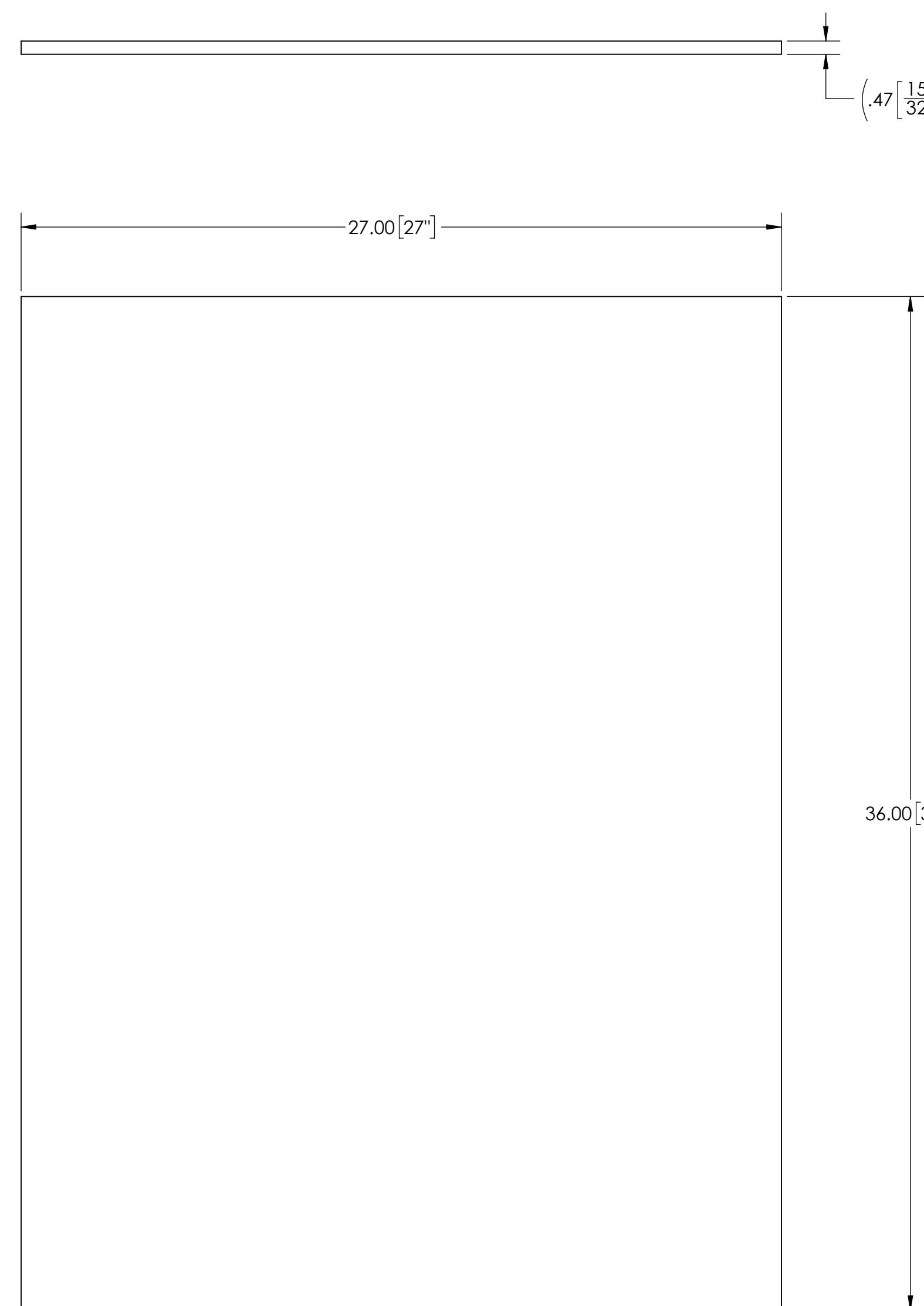
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UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$	DRAWN	JO	12/6/2024
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MATERIAL/FINISH:	SIZE	DWG. NO.	REV
1/2" Plywood (15/32")	C	TE-25006	
COMMENTS:		SCALE: 1:4	
REMOVE ALL BURRS AND SHARP EDGES.		SHEET 1 OF 1	
DO NOT SCALE DRAWING			

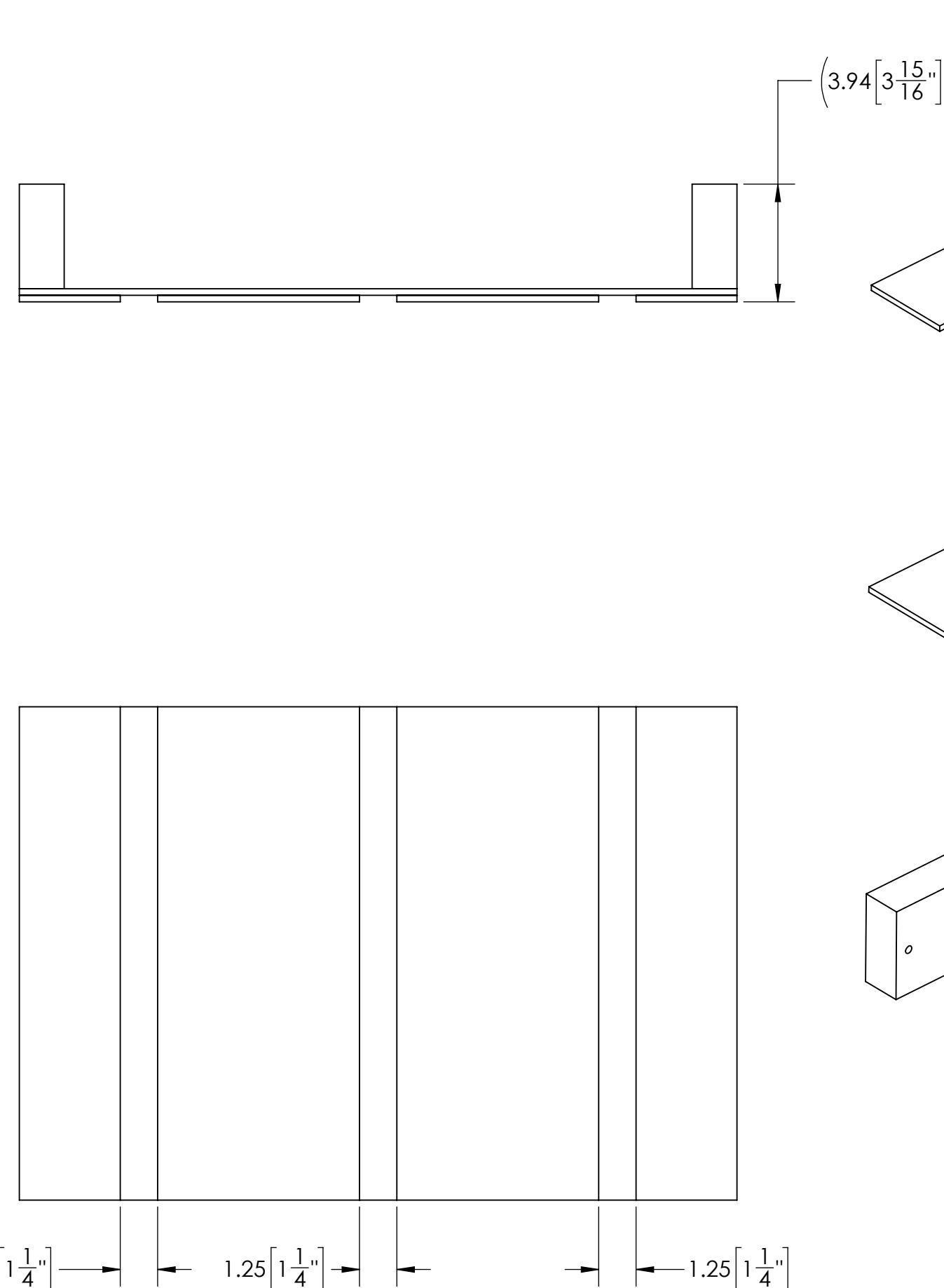
 **FIRST
ROBOTICS
COMPETITION**  **SOLIDWORKS**
Modeling Solutions Partner

TITLE:
**Coral Station
Front Wall**

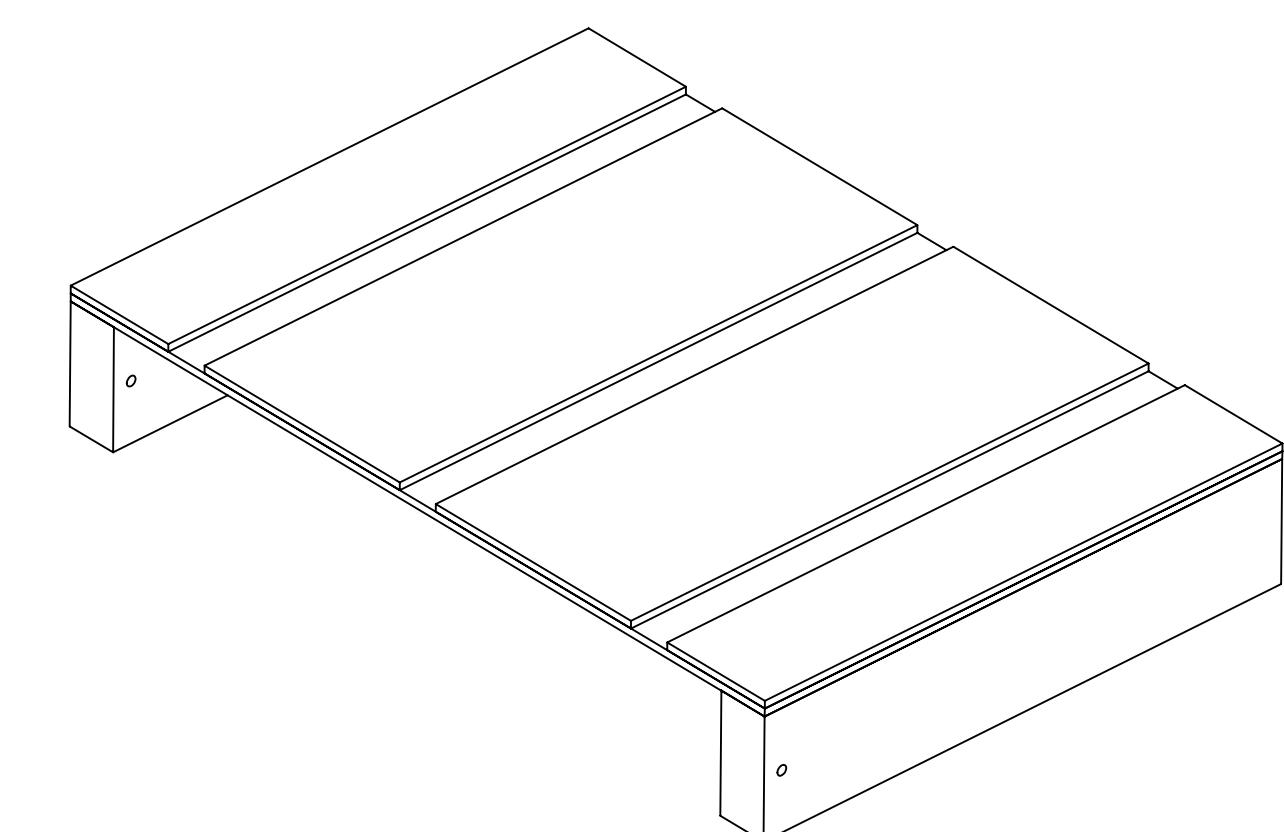
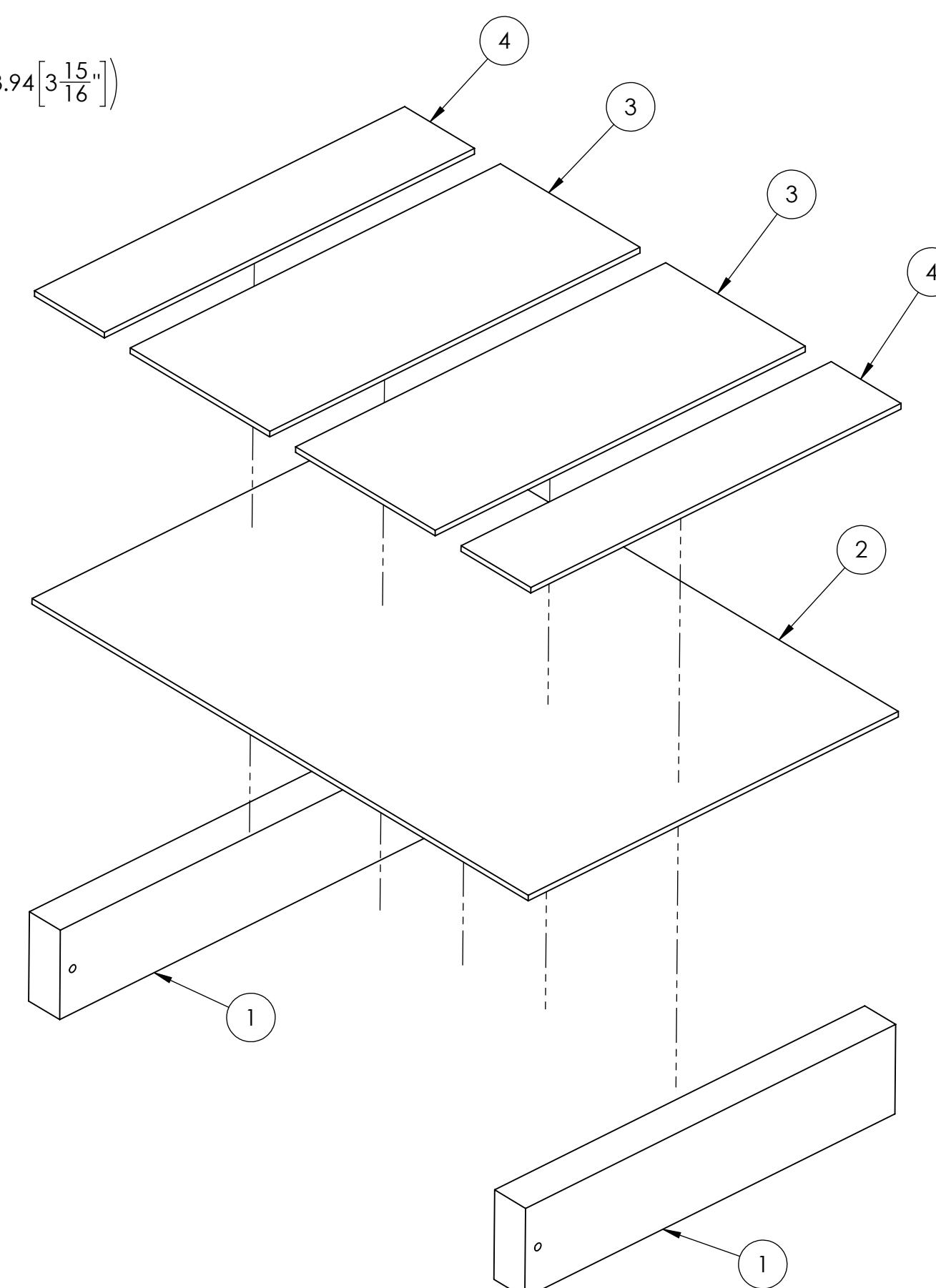
SIZE DWG. NO. REV
C TE-25006

SCALE: 1:4 SHEET 1 OF 1

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Step 1: Attach (3) and (4) to (2) using wood glue with gaps as shown above
(other fasteners such as wood screws can work, but may stick out bottom of assembly).
Step 2: Attach the glued assembly to both (1)s.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TE-25008	Coral Station Ramp Beam	2
2	TE-25009	Coral Station Ramp Panel	1
3	TE-25011	Coral Station Groove Panel 1	2
4	TE-25012	Coral Station Groove Panel 2	2

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COMMENTS:		
REMOVE ALL BURRS AND SHARP EDGES.		
DO NOT SCALE DRAWING		

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Modeling Solutions Partner

TITLE: Coral Station Ramp Frame

SIZE DWG. NO. REV

C TE-25007

SCALE: 1:4.5 **SHEET** 1 OF 1

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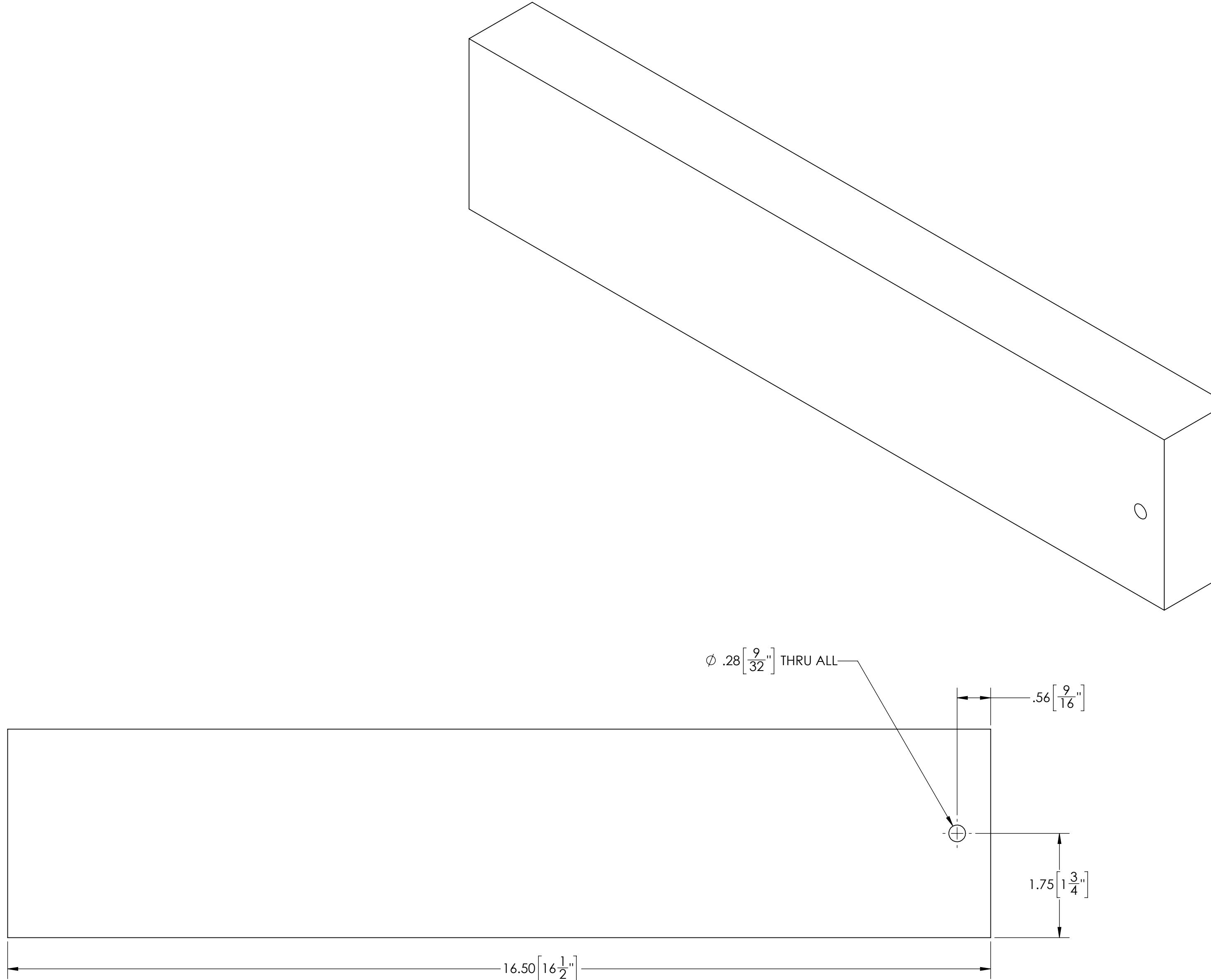
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$(1.50\left[1\frac{1}{2}\right])$

$(3.50\left[3\frac{1}{2}\right])$

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	12/6/2024
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MATERIAL/FINISH:	SIZE	DWG. NO.	REV
2x4 Lumber	C	TE-25008	
COMMENTS:		SCALE: 3:4	
REMOVE ALL BURRS AND SHARP EDGES.		SHEET 1 OF 1	
DO NOT SCALE DRAWING			

FIRST
ROBOTICS
COMPETITION

SOLIDWORKS
Modeling Solutions Partner

TITLE:
**Coral Station
Ramp Beam**

SIZE DWG. NO. REV
C TE-25008

SCALE: 3:4 SHEET 1 OF 1

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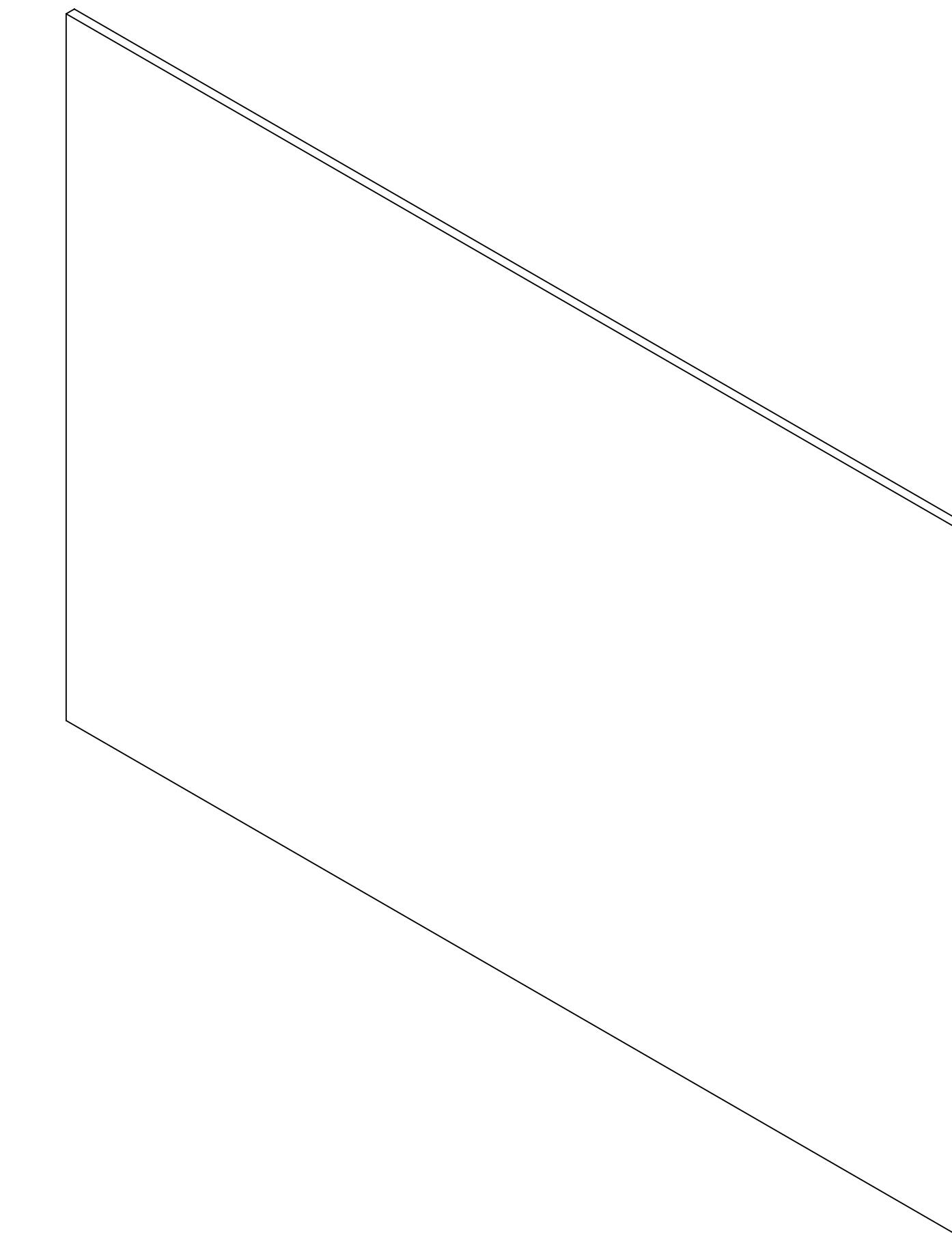
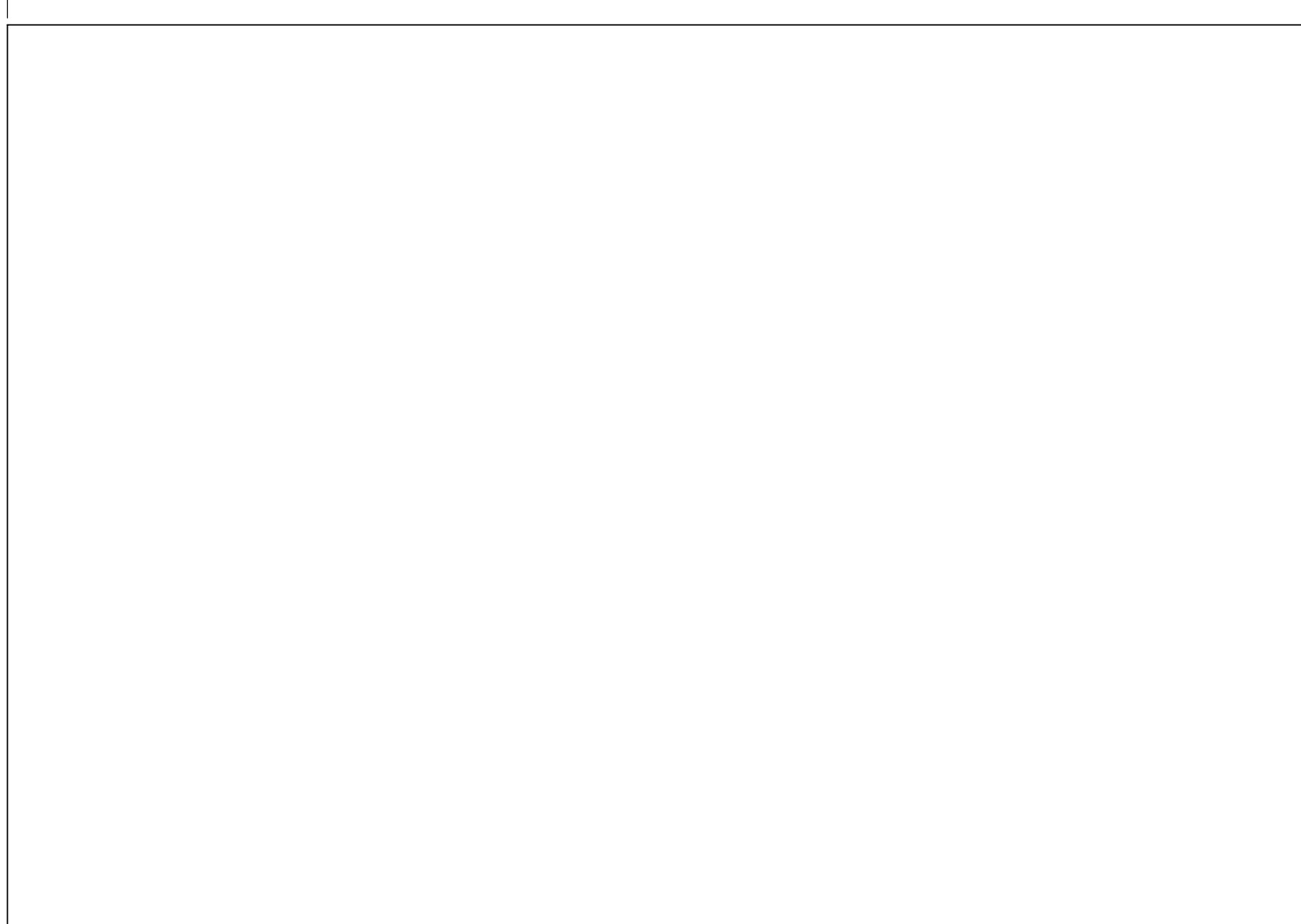
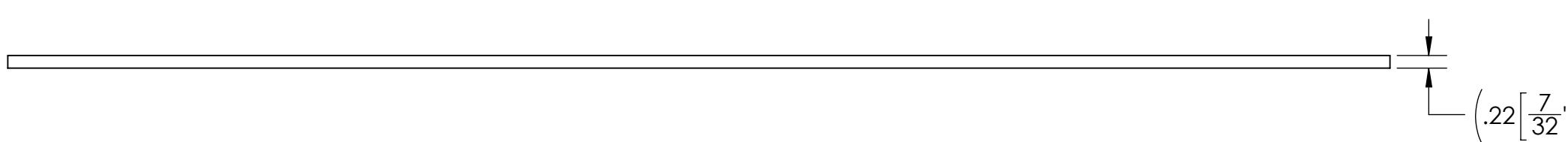
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MATERIAL/FINISH:	SIZE	DWG. NO.	REV
1/4" Plywood (7/32")	C	TE-25009	
COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			
DO NOT SCALE DRAWING	SCALE: 2:5	SHEET 1 OF 1	

 **FIRST
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Modeling Solutions Partner

TITLE:
**Coral Station
Ramp Panel**

SIZE DWG. NO. REV
C TE-25009

SCALE: 2:5 SHEET 1 OF 1

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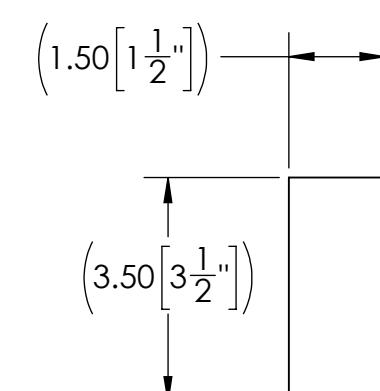
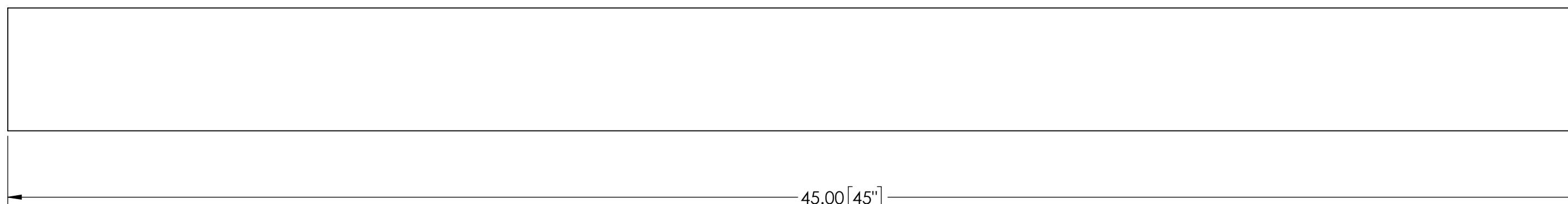
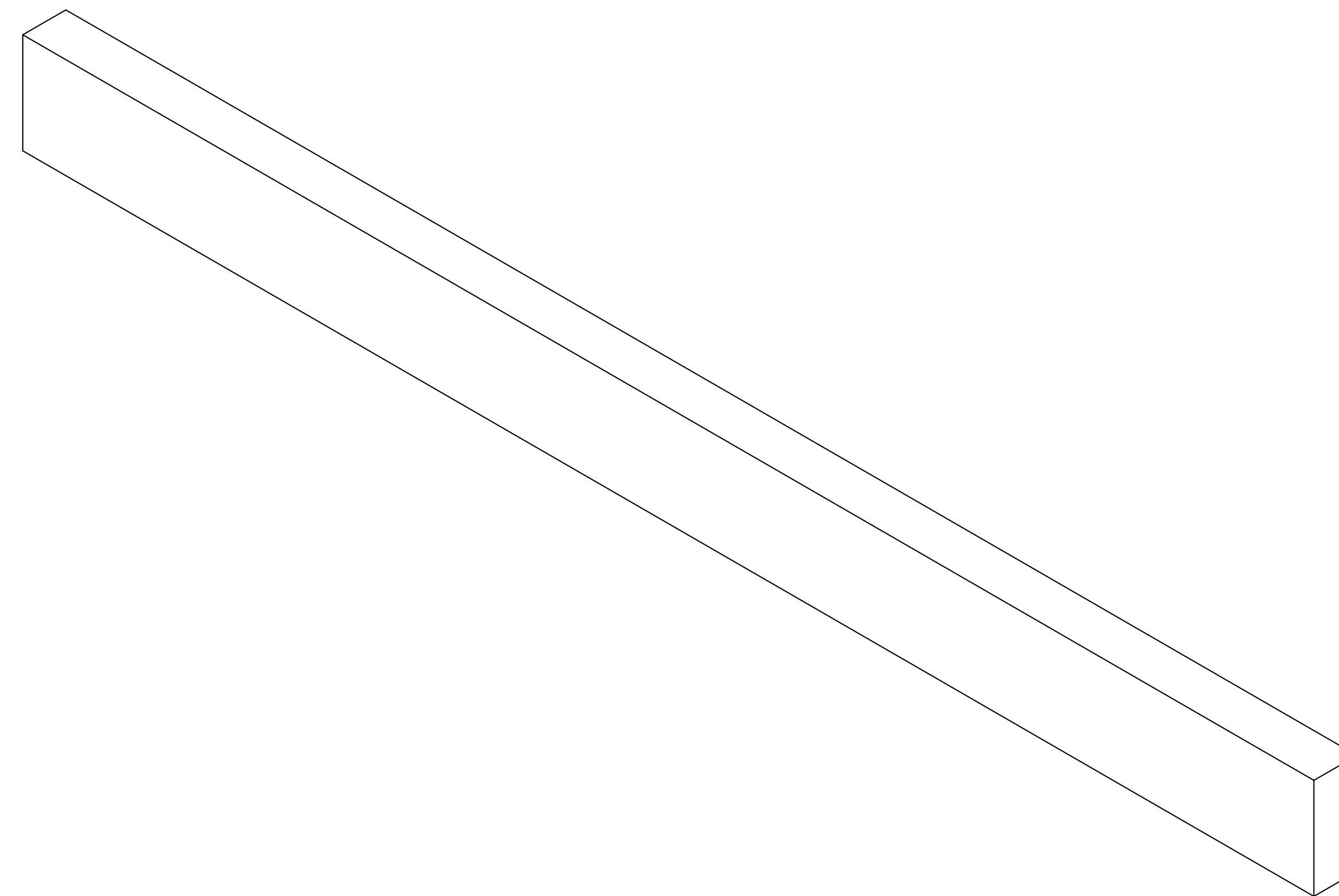
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UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$	DRAWN	JO	12/6/2024
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MATERIAL/FINISH: 2x4 Lumber			
COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			
DO NOT SCALE DRAWING			

 **FIRST ROBOTICS COMPETITION**  SOLIDWORKS Modeling Solutions Partner

TITLE: **Coral Station Back Height Beam**
SIZE DWG. NO. REV
C TE-25010

SCALE: 1:3 SHEET 1 OF 1

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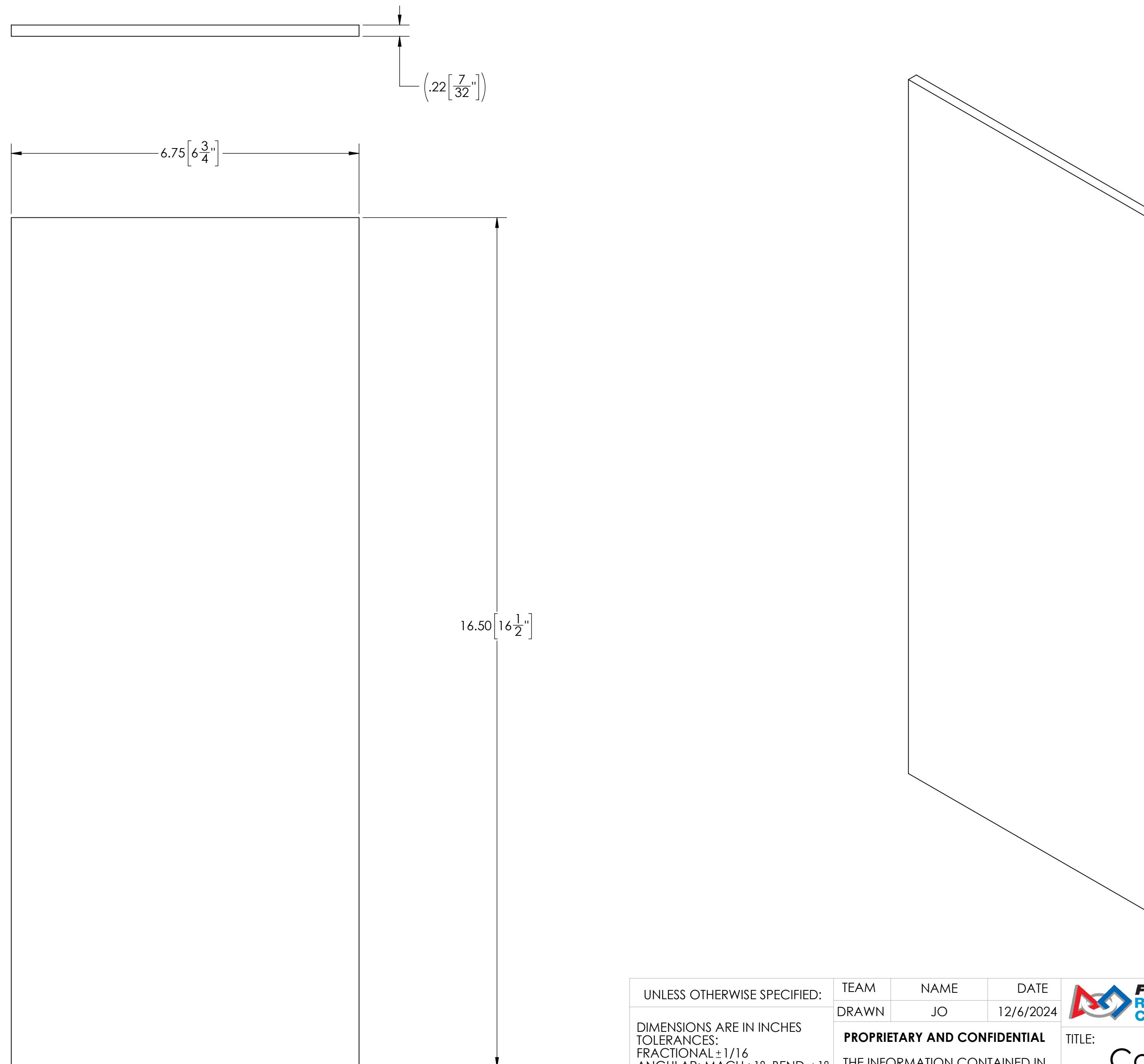
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MATERIAL/FINISH: 1/4" Plywood (7/32" Thick)			
COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			
DO NOT SCALE DRAWING			

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COMPETITION**  SOLIDWORKS
Modeling Solutions Partner

TITLE: **Coral Station
Groove Panel 1**

SIZE DWG. NO. REV
C TE-25011

SCALE: 2:3 SHEET 1 OF 1

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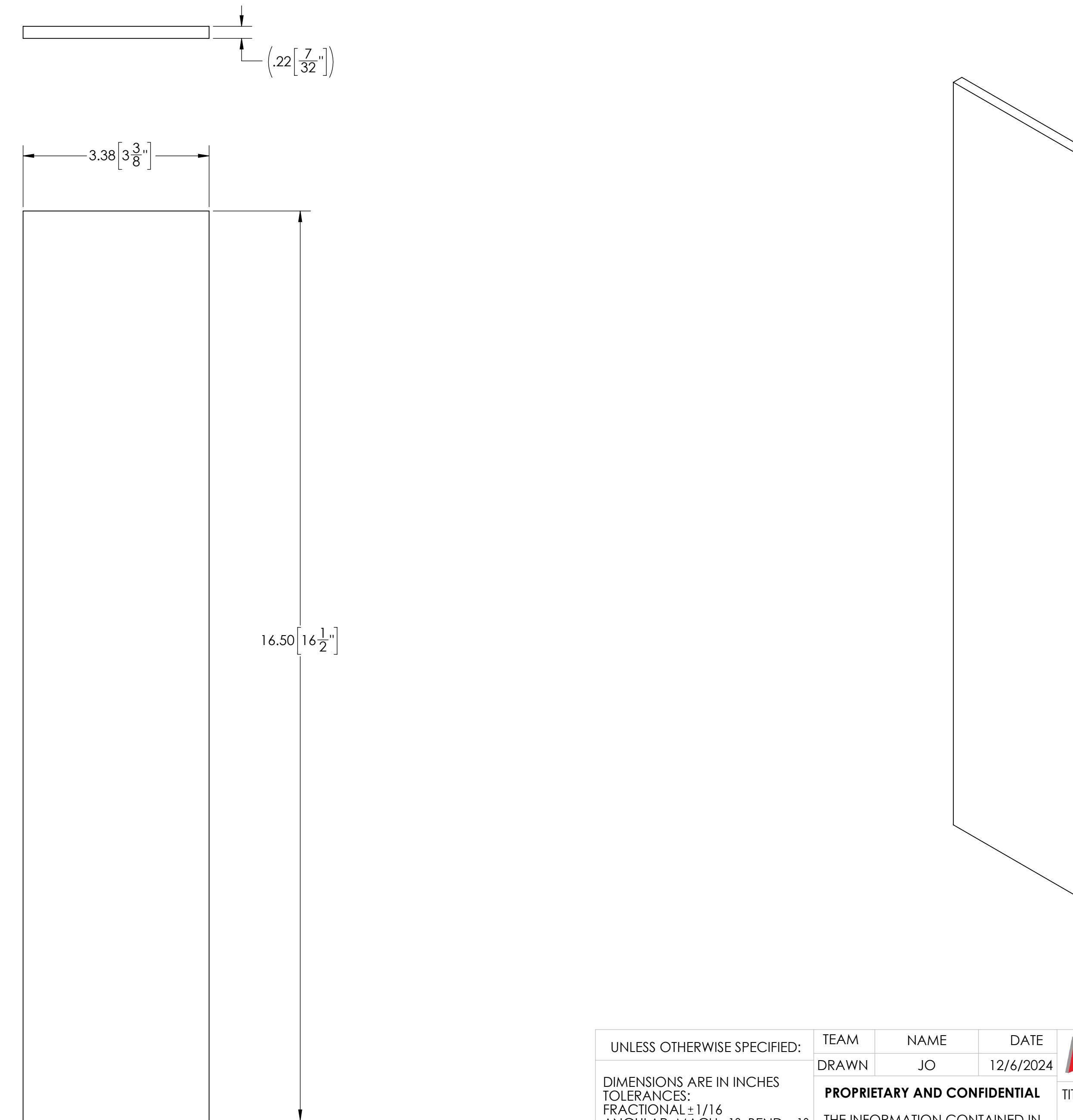
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MATERIAL/FINISH:	SIZE	DWG. NO.	REV
1/4" Plywood (7/32" Thick)	C	TE-25012	
COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			
DO NOT SCALE DRAWING		SCALE: 2:3	SHEET 1 OF 1

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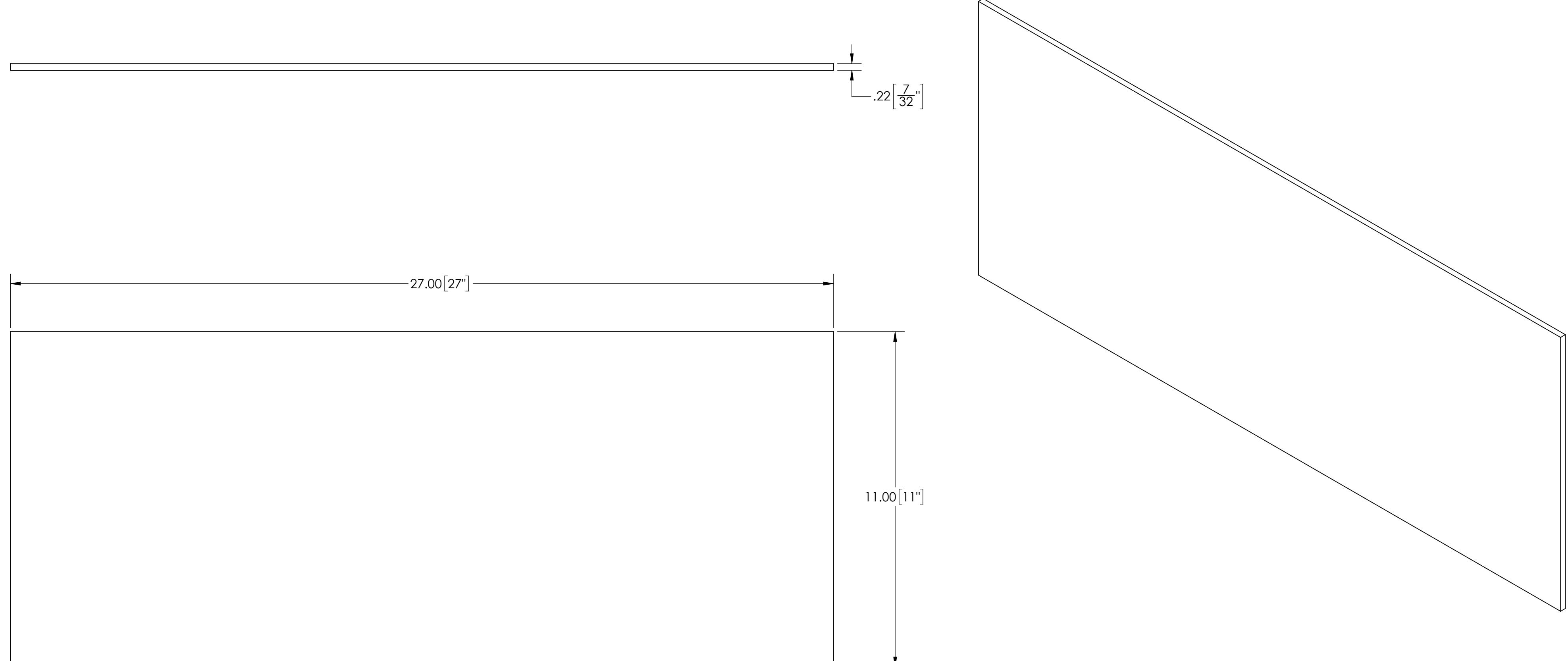
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MATERIAL/FINISH:	SIZE	DWG. NO.	REV
1/4" Plywood (7/32" Thick)	C	TE-25013	
COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			
DO NOT SCALE DRAWING		SCALE: 2:5	SHEET 1 OF 1

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