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		Hardware N #8 x 1.2 #8 x 2.9 #10 x 3	leeded: 25" Long S 5" Long Sc 5.5" Long S	crew - G crew - Qt crew - G	λty 16 y 20 λty 8		В
-	ITEM NO.	PART NUN TE-22010	1BER	Hub	DESCRIPTION - Simple Build - Fender Assembly	1	
-	2	TE-22040			Assembly nple Build - Upper Hub Base Assembly		
_	3	TE-22030-AM		Hub - Sim	nple Build - Upper Hub Goa Ibly for AM Ring AM-4672		
UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE		FIRST 7	OLID WORKS	l
	DRAWN	КАМС	1/4/202	2		ng Solutions Partner	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1' TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125 MATERIAL/FINISH:	 THE INFORMATION THIS DRAY PROPERTY REPRODU WHOLE W PERMISSION 	ARY AND CON RMATION CON WING IS THE SO Y OF <i>FIRST</i> ®. AI ICTION IN PART VITHOUT THE WE ON OF <i>FIRST</i> ® IS	TAINED IN ILE NY OR AS A RITTEN	А	Hub - Simple Build Upper Hub for AndyMark Ring AM + 1/4 Fender Asser	-4672	А
	PROHIBITE	Ξ U .				A	

SCALE: 1:12

C TE-22002-AM

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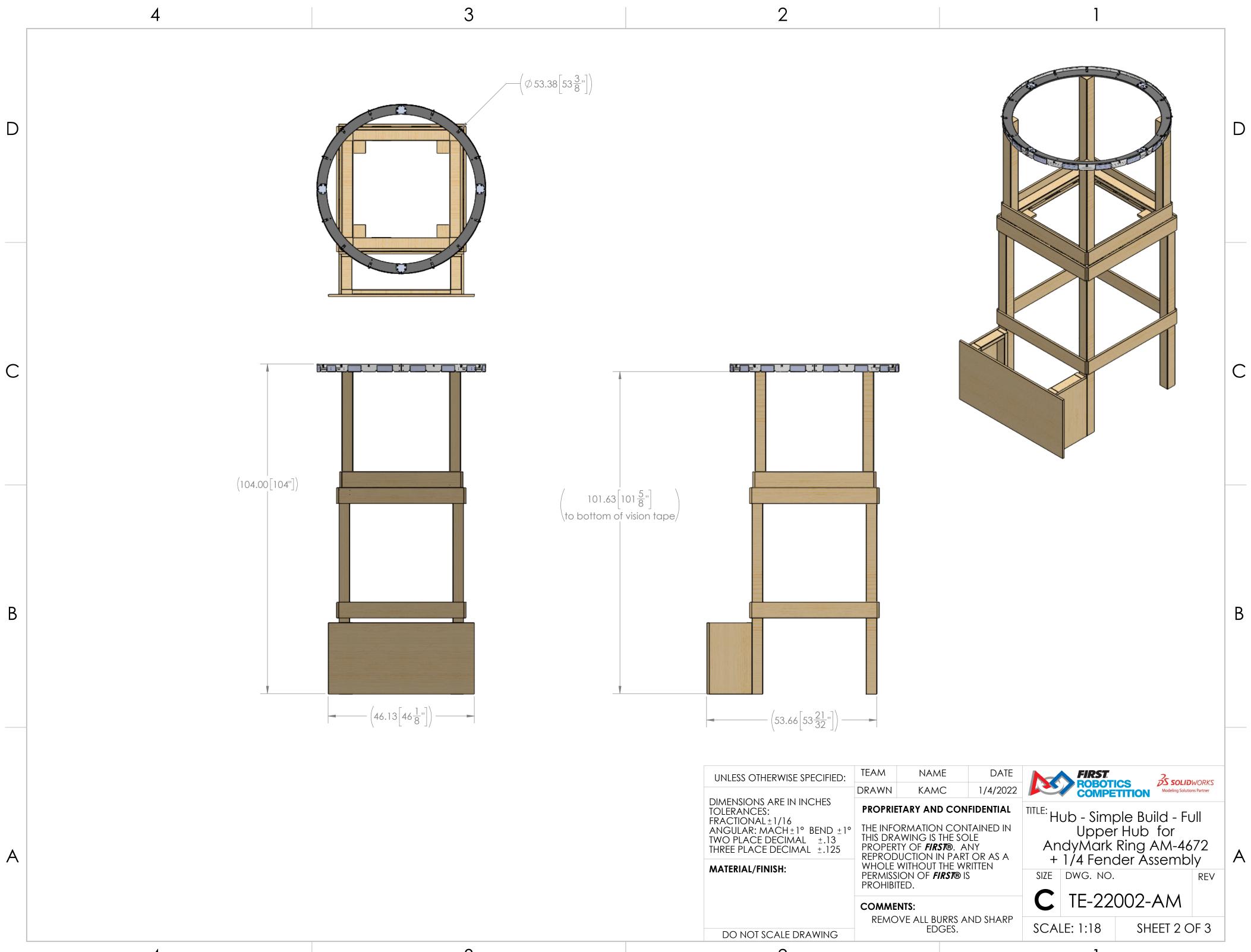
SHEET 1 OF 3

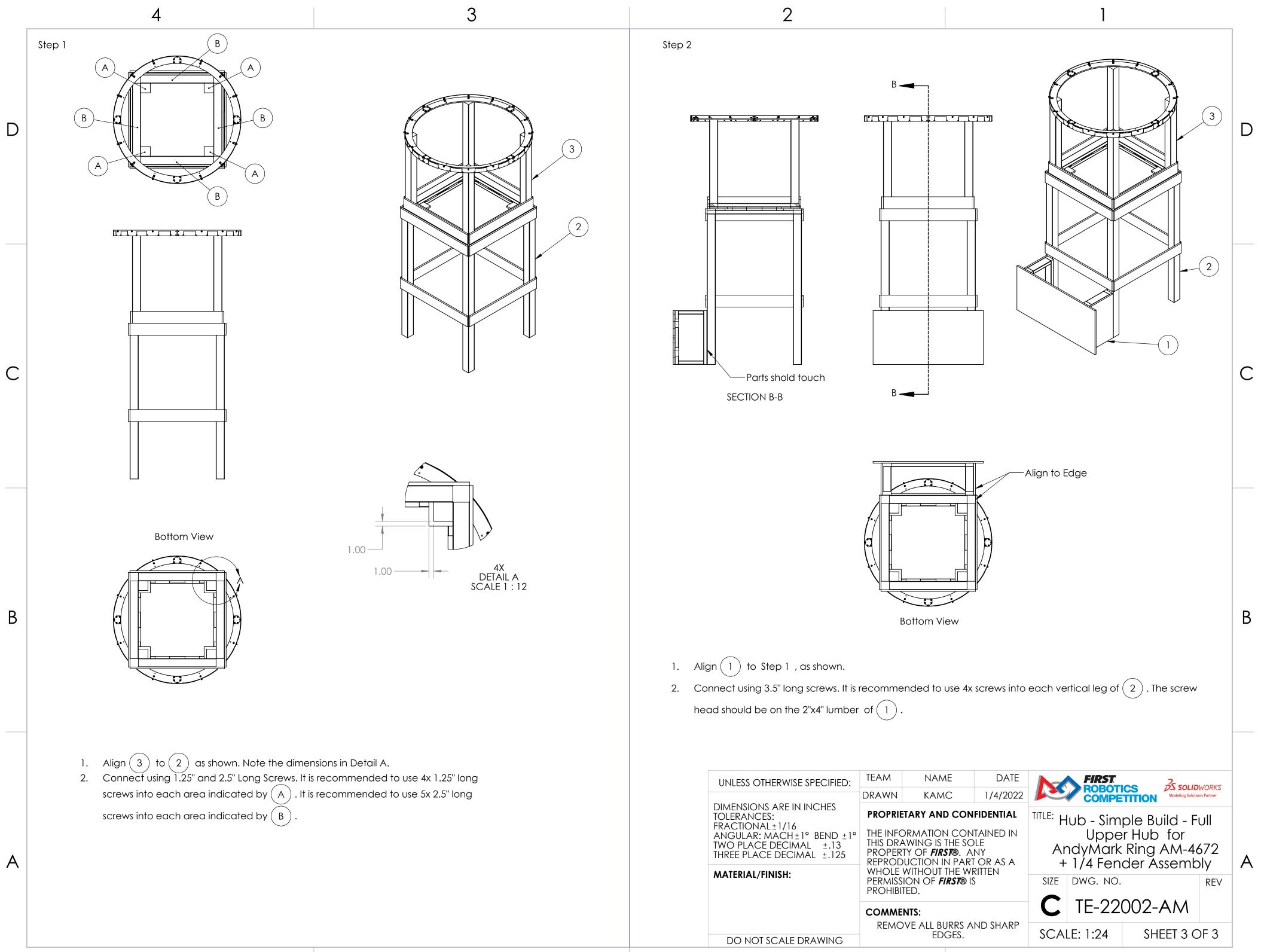
DO NOT SCALE DRAWING

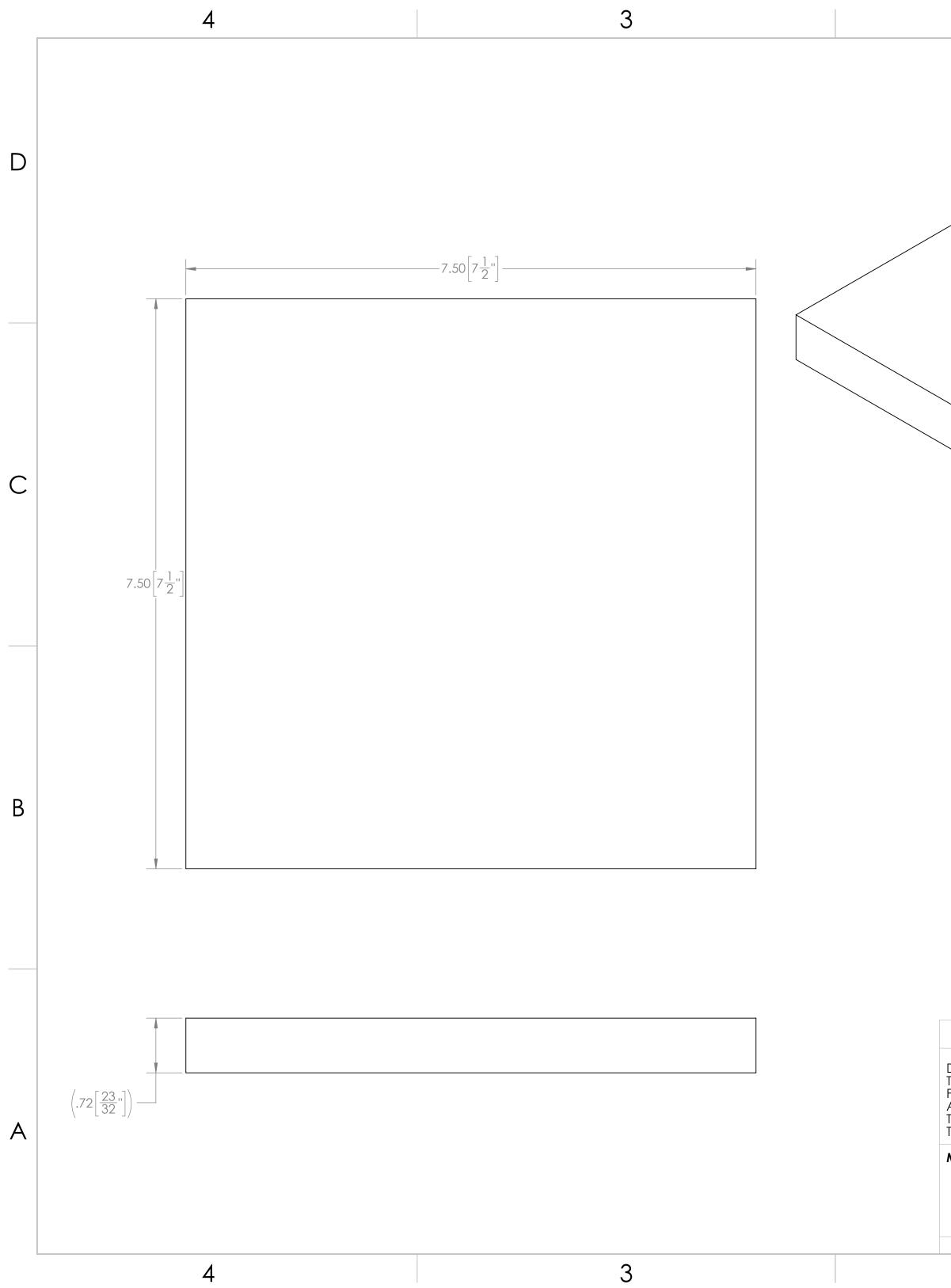
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COMMENTS:

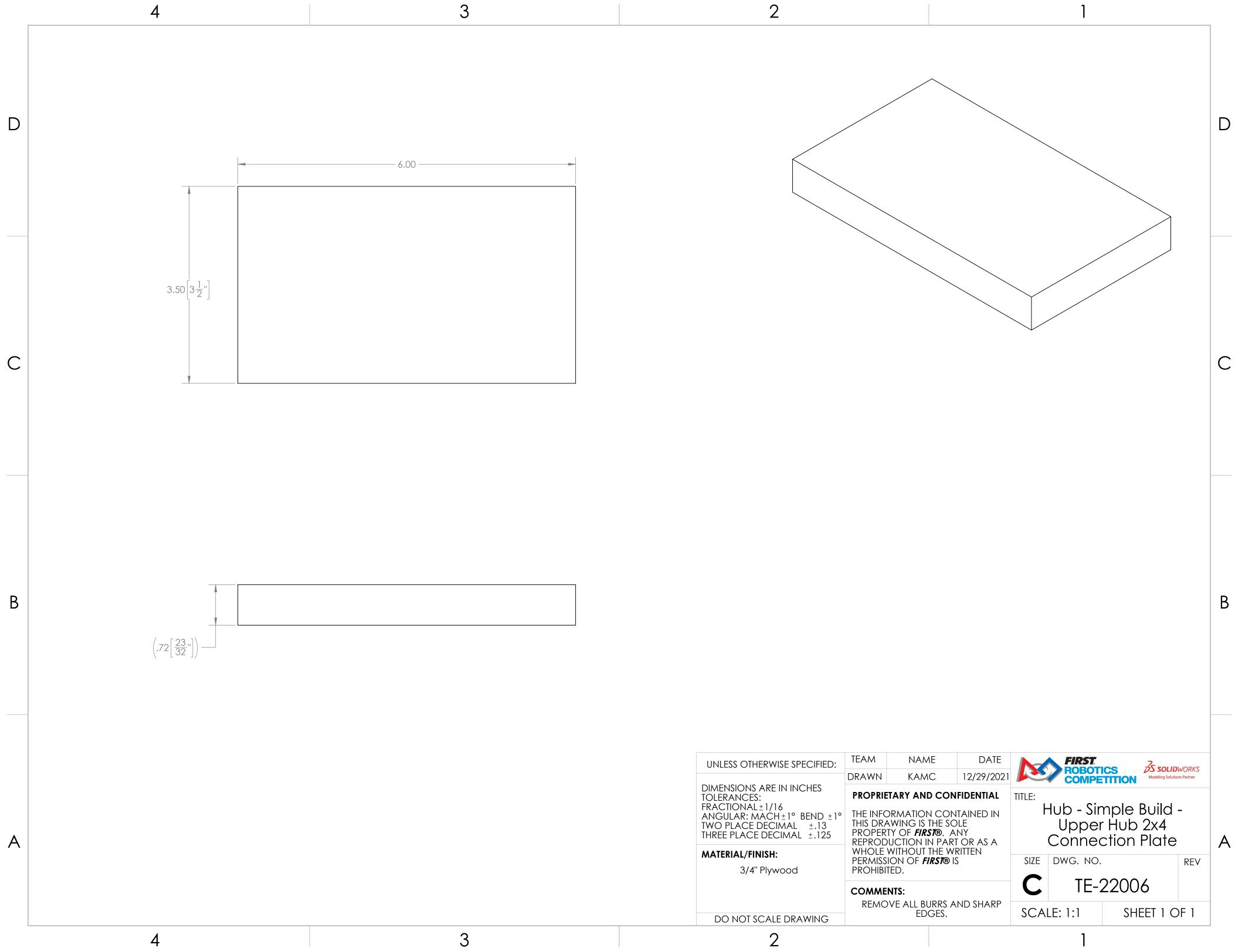
REMOVE ALL BURRS AND SHARP EDGES.

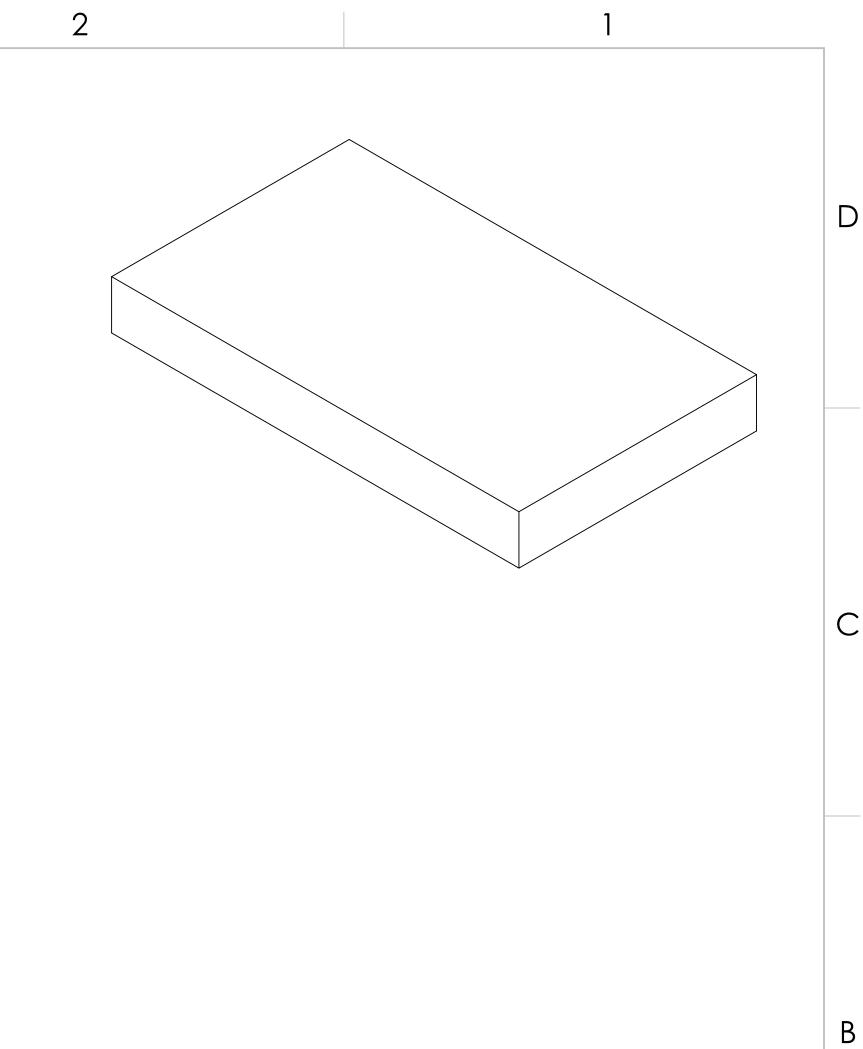


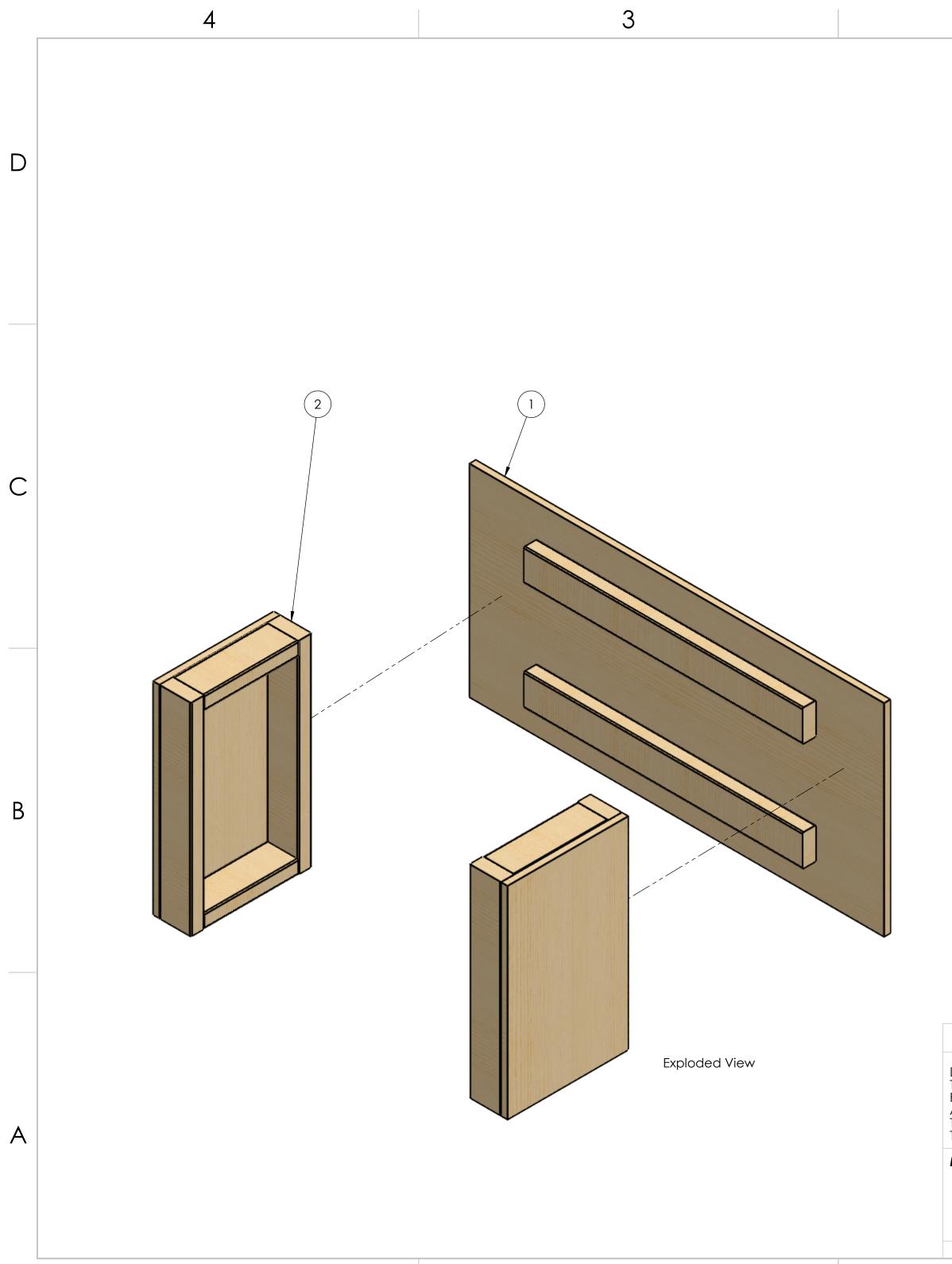




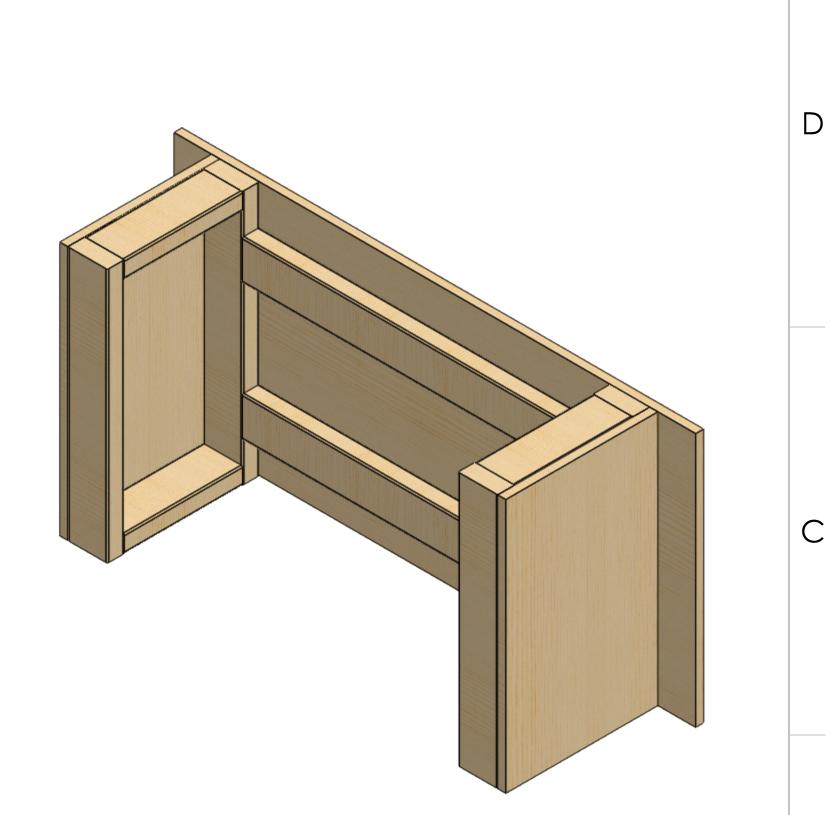
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UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE	FIRST. ROBOTICS SOLIDWORKS	
DIMENSIONS ARE IN INCHES	DRAWN	КАМС	12/29/2021	COMPETITION Modeling Solutions Partner	_
TOLERANCES: FRACTIONAL±1/16				Hub - Simple Build -	
ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	THIS DRA	DRMATION CON AWING IS THE SC TY OF FIRST ®. A	DLE	Hub - Simple Build - Upper Hub Square	
MATERIAL/FINISH:	REPROD WHOLE	UCTION IN PART WITHOUT THE WI	i or as a Ritten	Connection Plate	A
3/4" Plywood	PERMISS PROHIBI	ION OF <i>FIRST</i> ® IS	5	SIZE DWG. NO. REV	
	COMME			C TE-22005	
do not scale drawing	REMC	VE ALL BURRS A EDGES.	ND SHARP	SCALE: 1:1 SHEET 1 OF 1	
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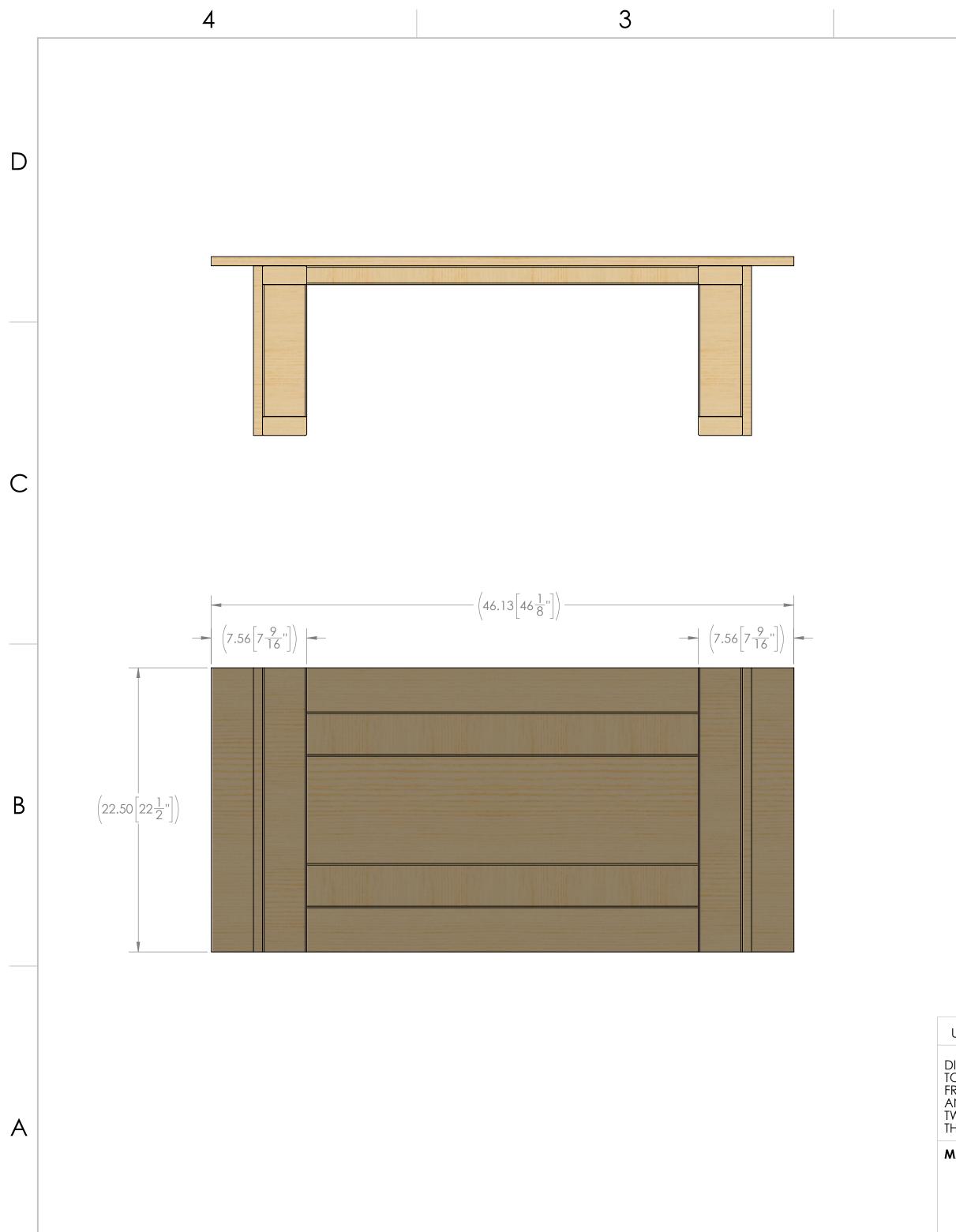


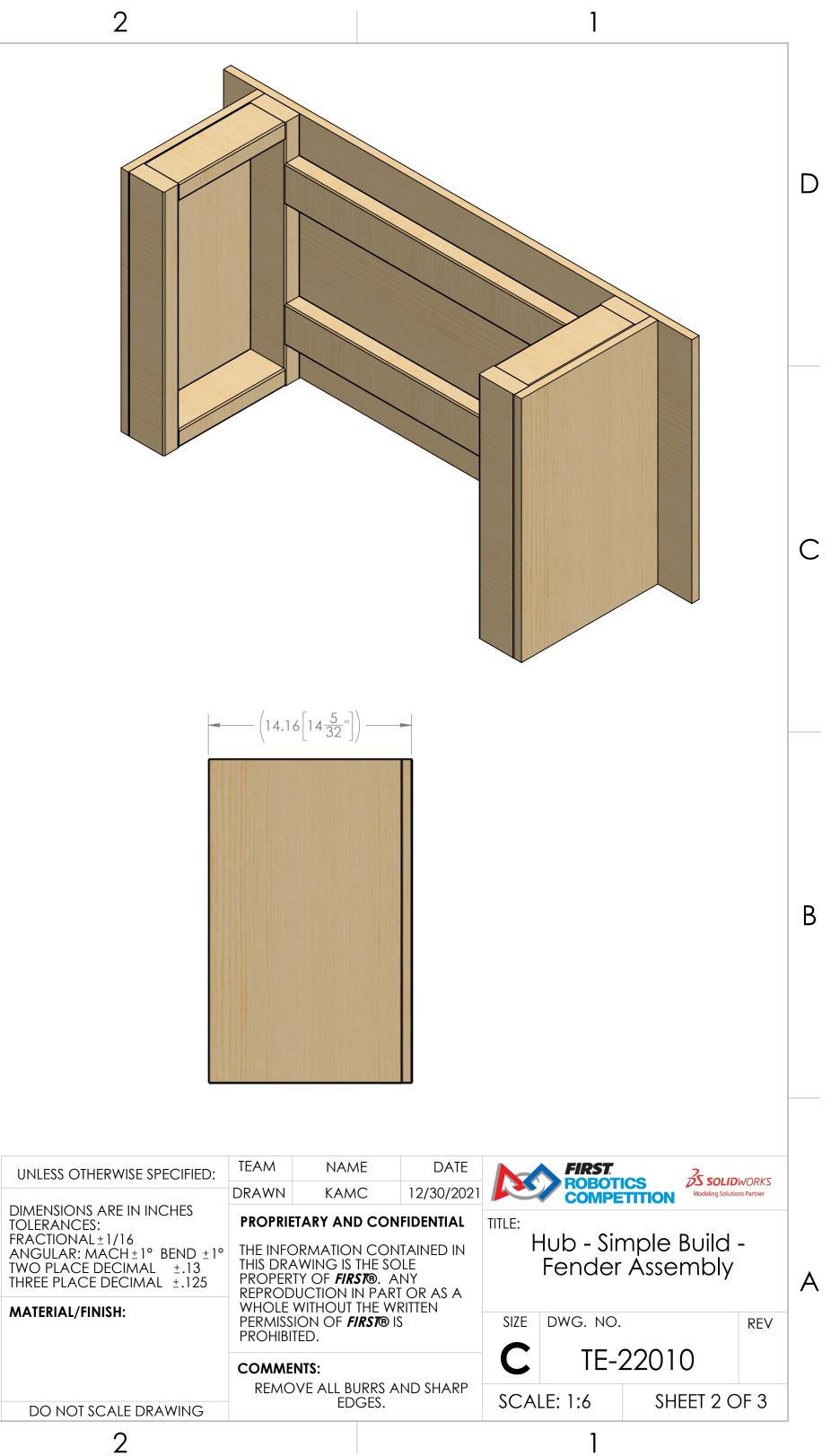
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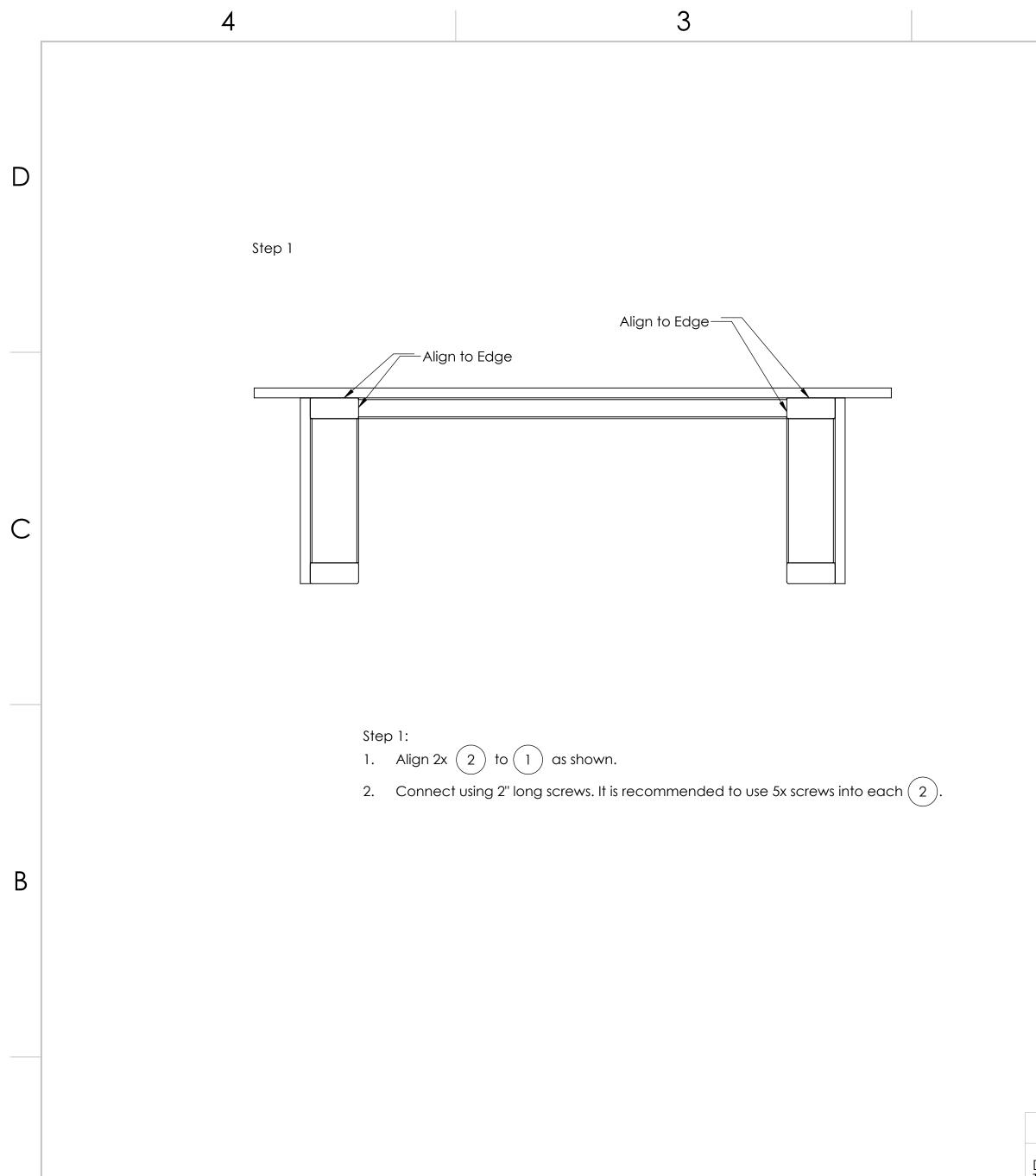
Hardware Needed: #8 x 2" Long Screw - Qty 10

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	ITEM NO.	PART NUN	ABER		DESCRIPTIO	N	(QTY.	
	1 TE-22013			HUB - Bc	sic Build - Fe Assembly	nder Fror	nt	1	
	2	2 TE-22017 HUB - Bas				nder Side	e	2	
UNLESS OTHERWISE SPECIFIED:	TEAM	TEAM NAME DATE							
	DRAWN	КАМС	12/30/202	1	ROBOTI COMPE		S SOLIDI Modeling Solution		
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1 TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125 MATERIAL/FINISH:	 THE INFO THIS DRA PROPERT REPRODI WHOLE V 	RMATION CON WING IS THE SC Y OF FIRST® . A UCTION IN PART WITHOUT THE WI	FIRST® . ANY N IN PART OR AS A		lub - Sin Fender				A
	PERMISSI	on of first ® is Ed.)	SIZE	DWG. NO.		_	REV	
	COMMENTS:		TS:		C TE-22010)		
do not scale drawing	REMO	REMOVE ALL BURRS AND SHARP EDGES.		SCALE: 1:6 SHEET		et 1 o	F 3		
2				1	1				-
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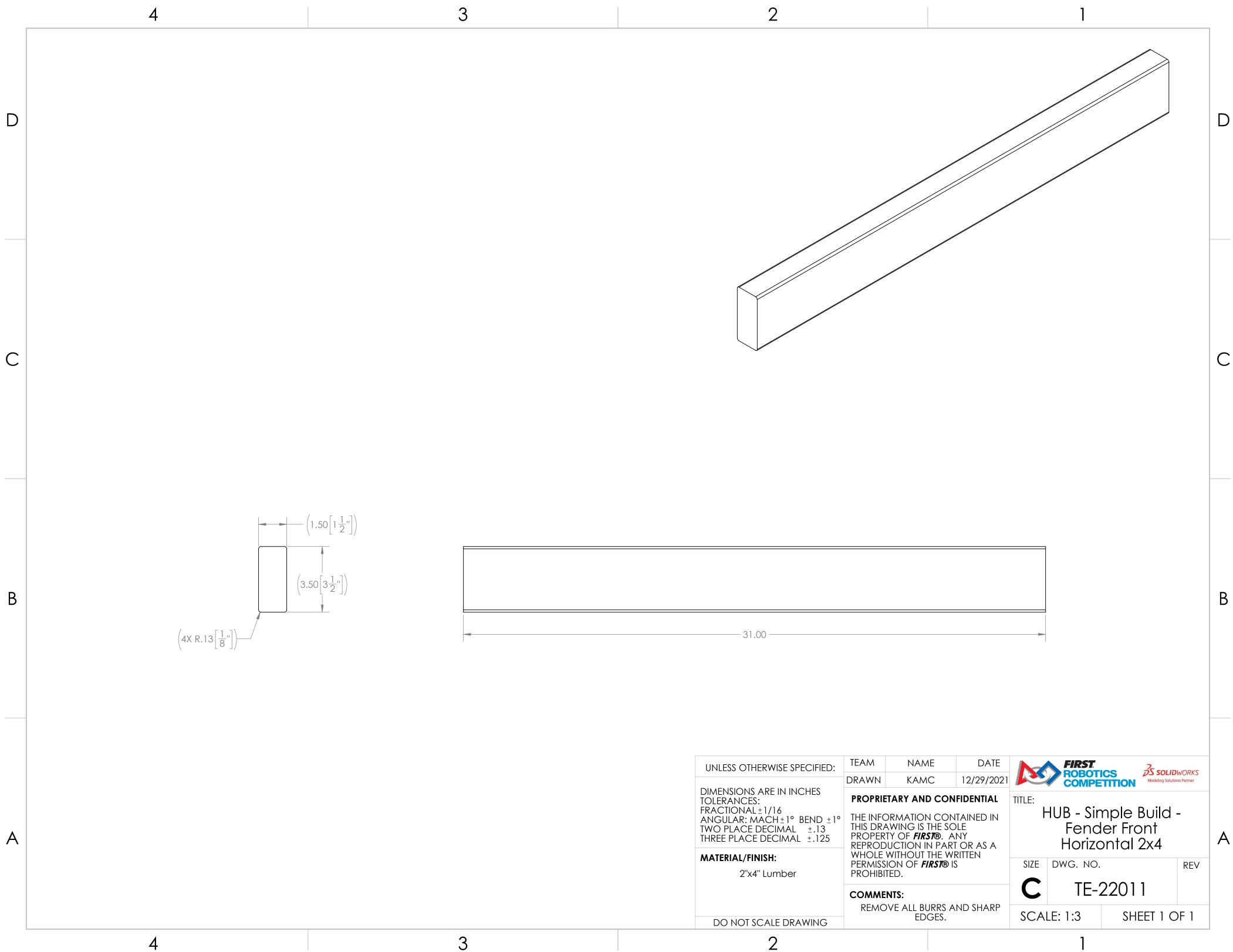


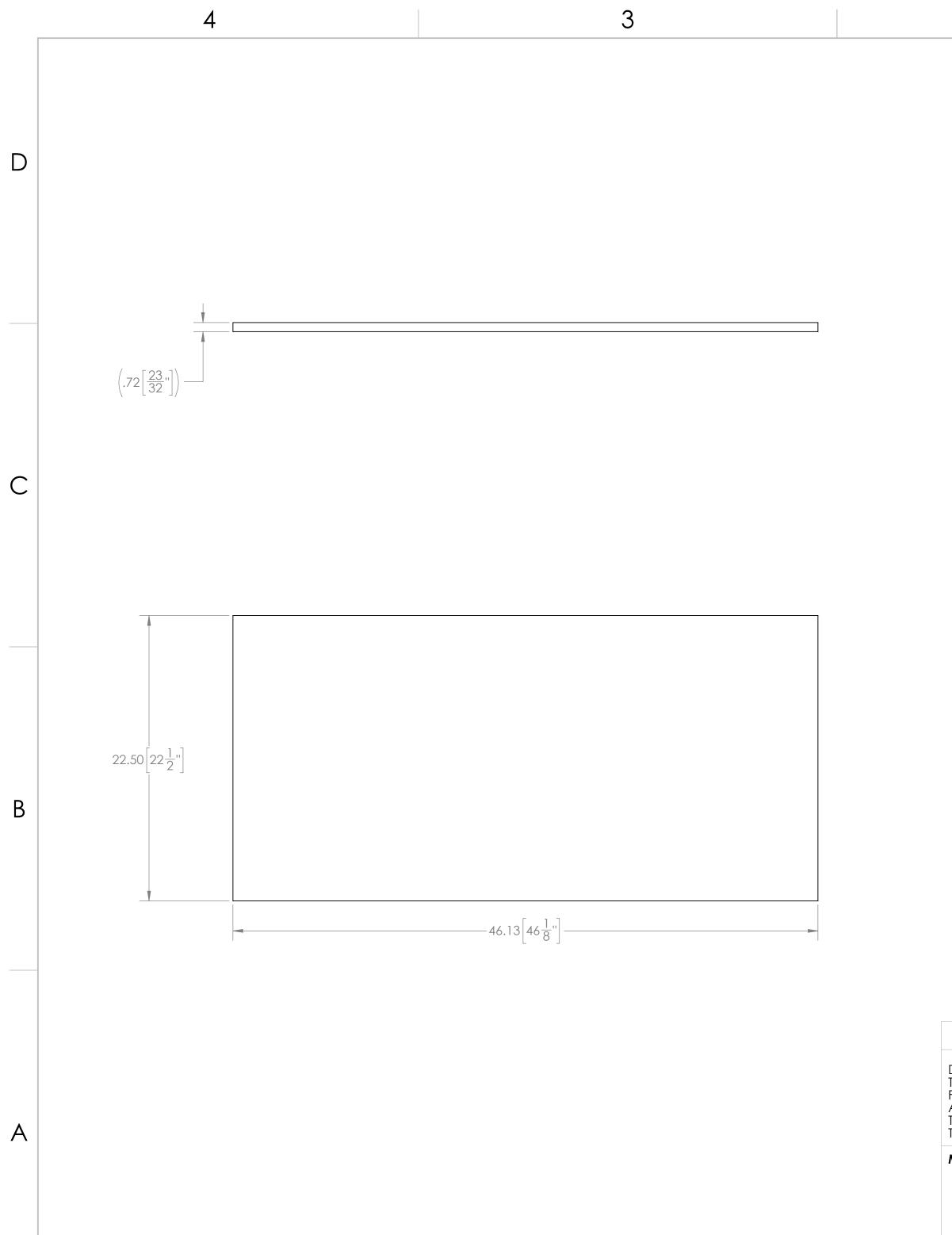




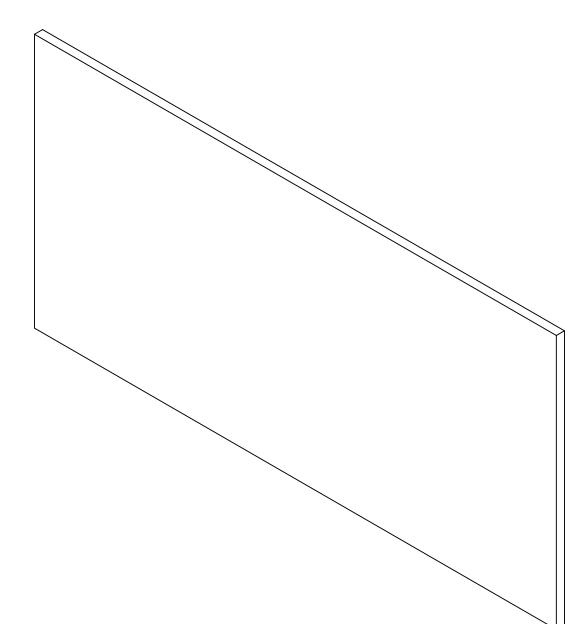
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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES	TEAM NAN DRAWN KAM		FIRST. ROBOTIC COMPET	S SOLIDWORKS Modeling Solutions Partner	-
TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	PROPRIETARY AN THE INFORMATION THIS DRAWING IS PROPERTY OF <i>FIR</i> REPRODUCTION I	N CONTAINED IN THE SOLE ST® . ANY N PART OR AS A	Hub - Sim Fender A	ple Build - Assembly	A
MATERIAL/FINISH:	WHOLE WITHOUT PERMISSION OF F PROHIBITED.	ITTE VYKIIIEN V IRST ® IS	size dwg. no.	REV	-
do not scale drawing		urrs and sharp Ges.	SCALE: 1:6	SHEET 3 OF 3	-
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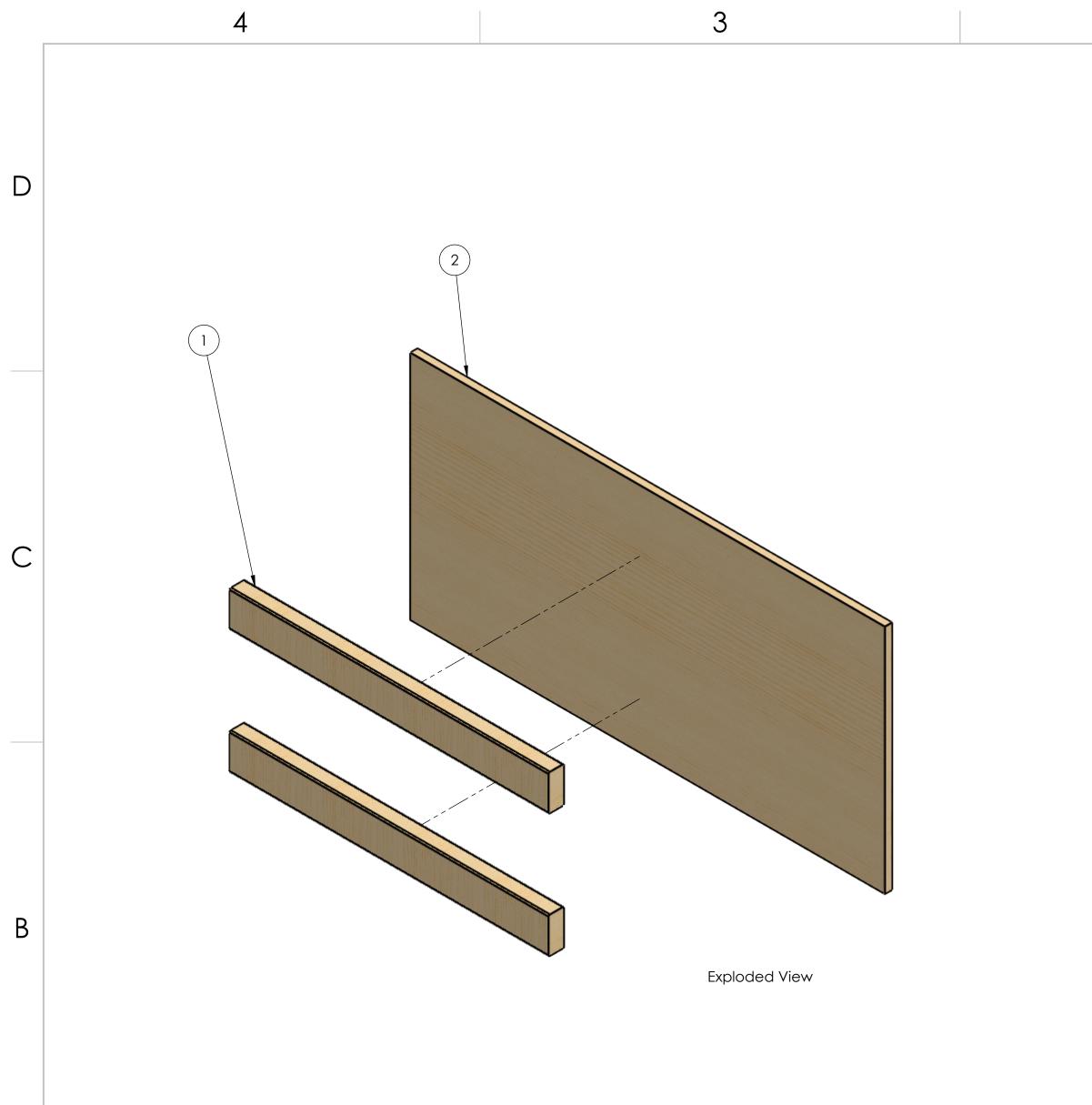


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UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE		FIRST		25 50117		
	DRAWN	КАМС	ROBOTICS COMPETITION						
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND±1° TWO PLACE DECIMAL±.13 THREE PLACE DECIMAL±.125	THE INFO THIS DRA PROPER REPROD	TARY AND CON DRMATION CON AWING IS THE SC TY OF <i>FIRST</i> ®. A DUCTION IN PART WITHOUT THE WI	TAINED IN DLE NY I OR AS A	HUB - Simple Build - Fender Front					A
MATERIAL/FINISH: 3/4" Plywood		ION OF <i>FIRST</i> ® IS	SIZE DWG. NO.			•	REV		
	COMME	NTS:		C	IE-	2201	2		
do not scale drawing	REMOVE ALL BURRS AND SHARP EDGES.			SCALE: 1:6 SHEET 1 OF 1			DF 1		
2					1				-

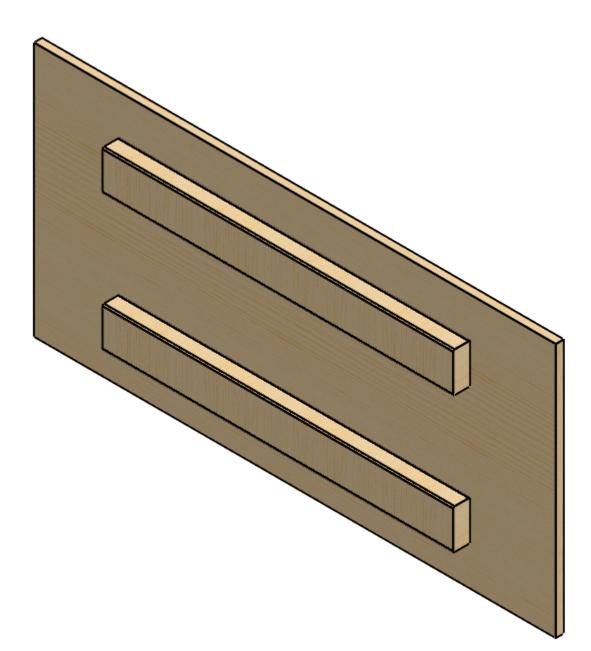


Step 1:

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- 1. Align 2x (1) to (2) as shown, using dimensions provided on Sheet 2.
- 2. Connect using 2" long screws. It is recommended to use 7x screws into each (1).

3



2

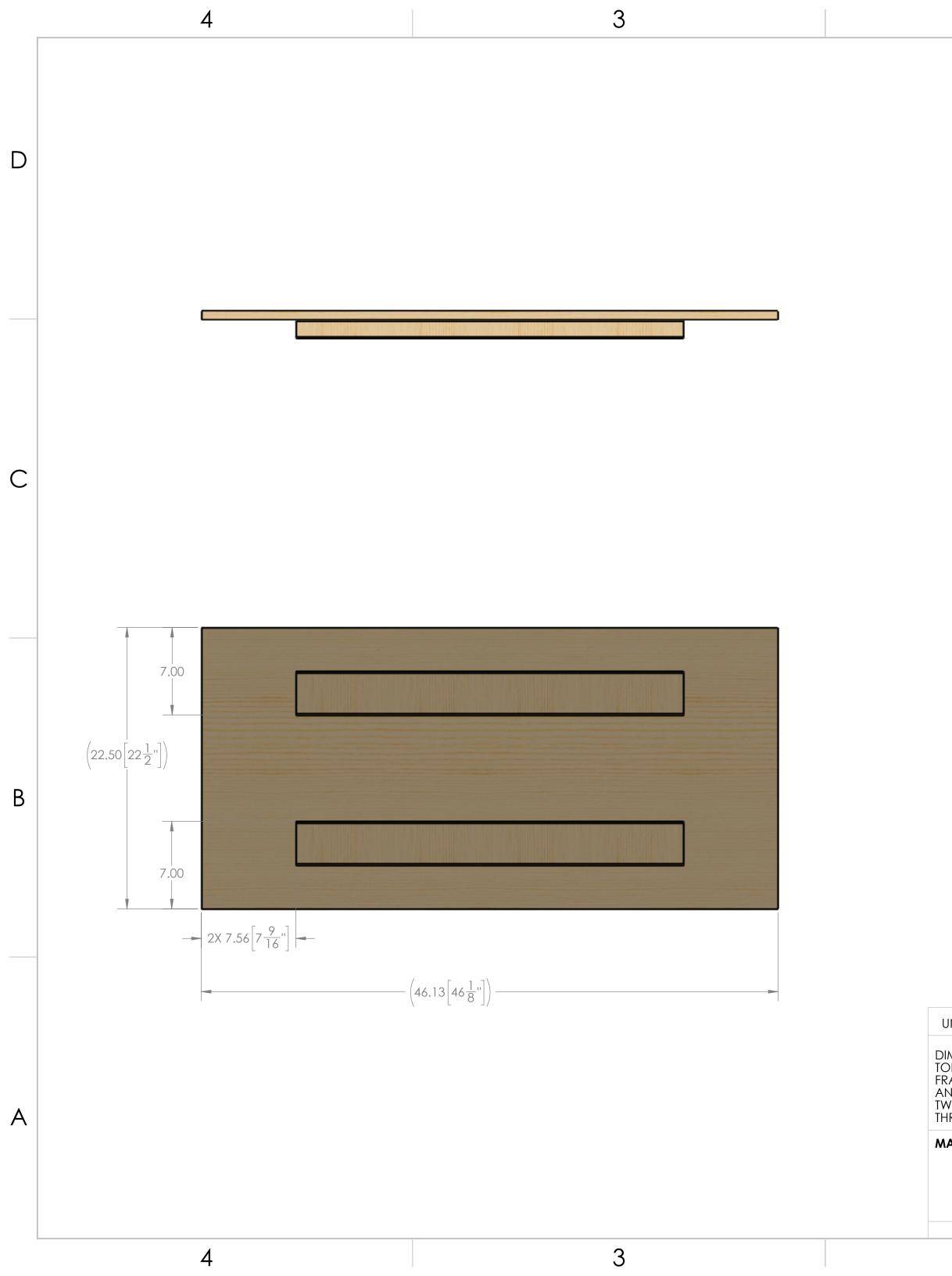
Hardware Needed: #8 x 2" Long Screws - Qty 14

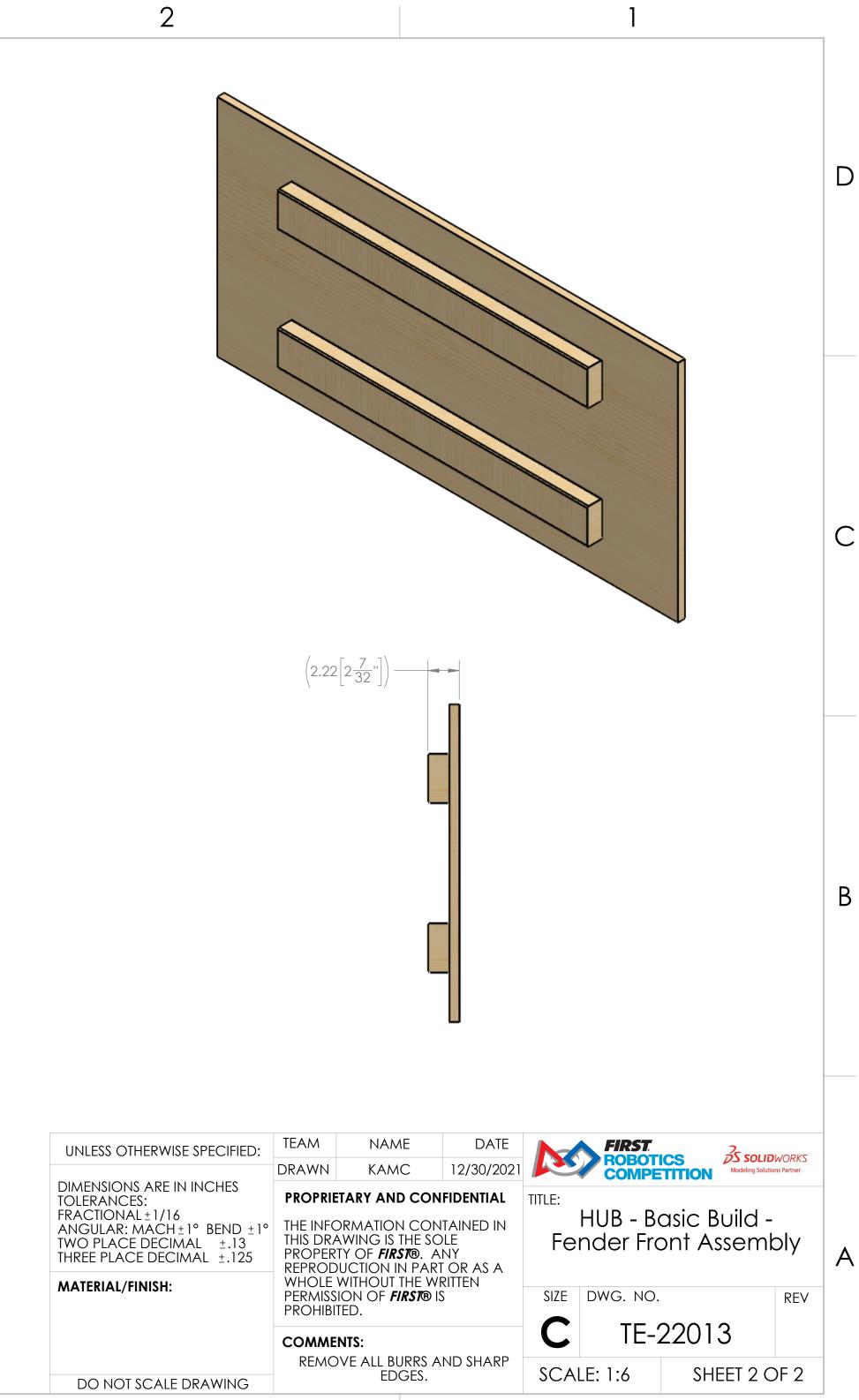
								_
	ITEM NO.	PART NUM	1BER		DESCRIPTIO	Ν	QTY.	
	1	TE-22011 HUB		HUB - Si	HUB - Simple Build - Fender Front Horizontal 2x4		2	
	2	TE-22012		HUB - Si	mple Build - Fe	1		
UNLESS OTHERWISE SPECIFIED	TEAM	NAME	DATE		FIRST	350	OLID WORKS	-
	DRAWN	КАМС	12/30/20	21 尾	ROBOT COMPE		ng Solutions Partner	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ± TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125 MATERIAL/FINISH:	THE INFC THIS DRA PROPERT REPROD WHOLE V	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <i>FIRST</i> ®. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <i>FIRST</i> ® IS PROHIBITED.			ender Fro			A
					DWG. NO.		REV	
		COMMENTS:			TE-	22013		
DO NOT SCALE DRAWING	KLMO	REMOVE ALL BURRS AND SHARP EDGES.			ALE: 1:6	SHEET	1 OF 2	
2					1	1		_

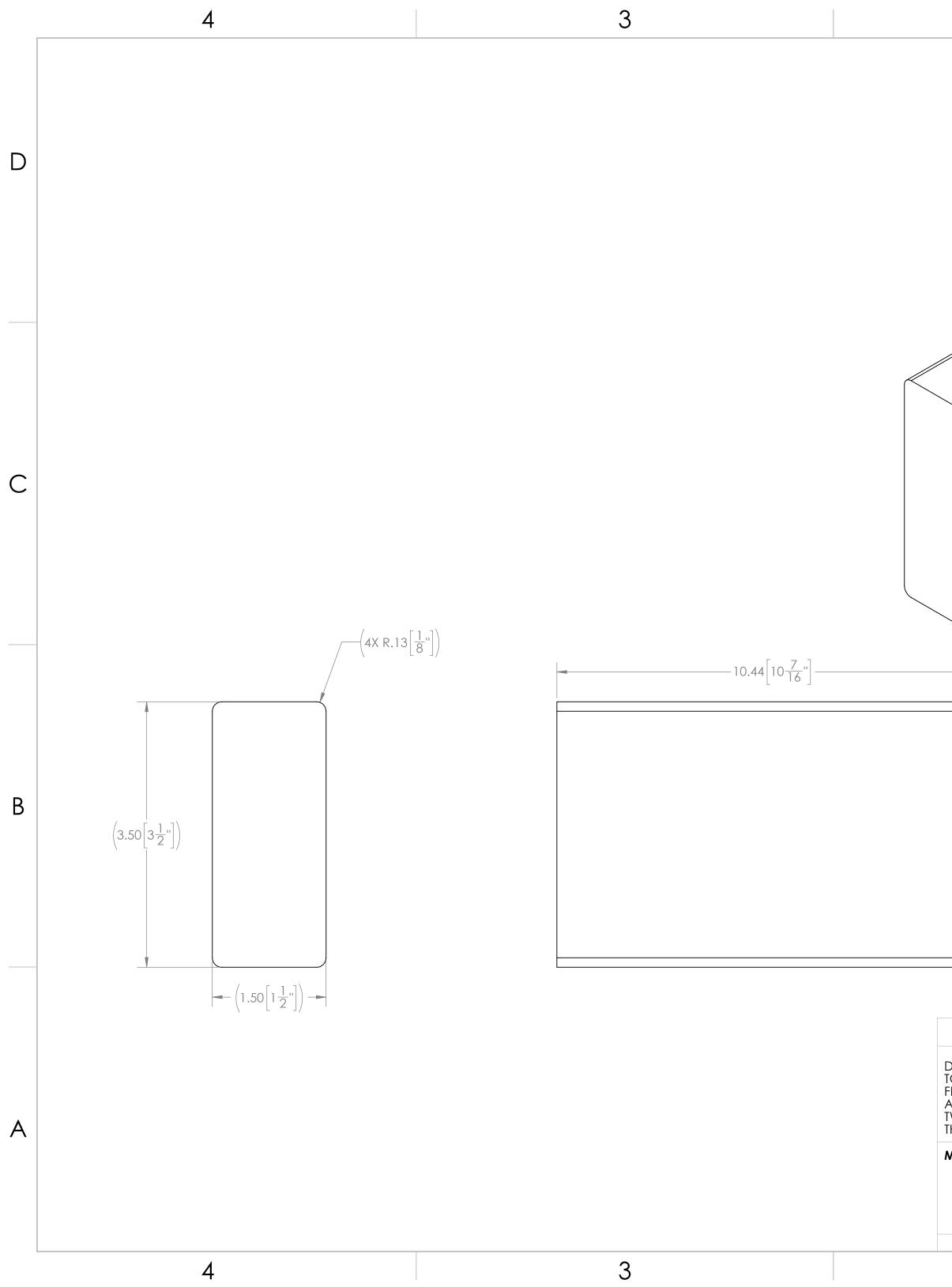
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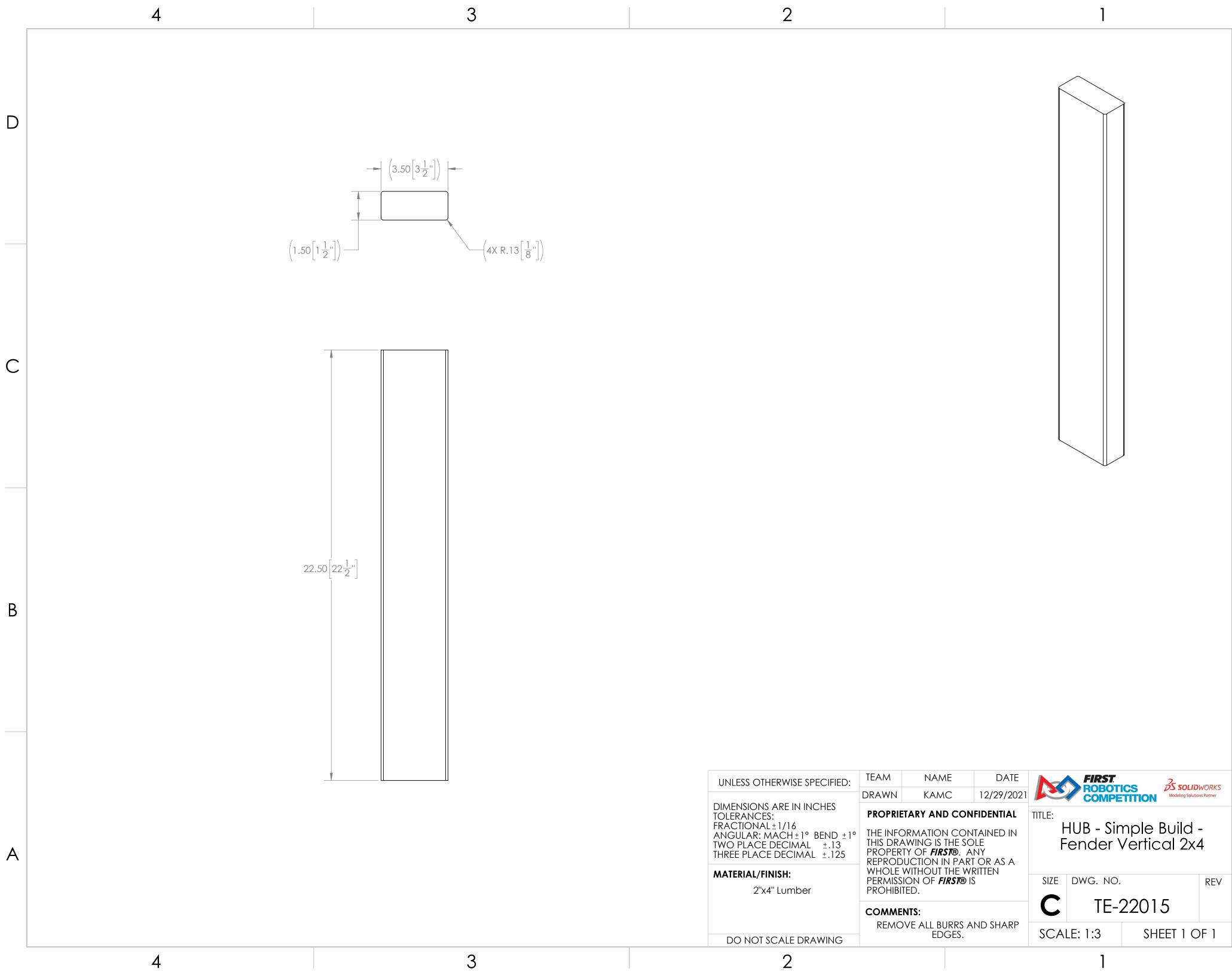
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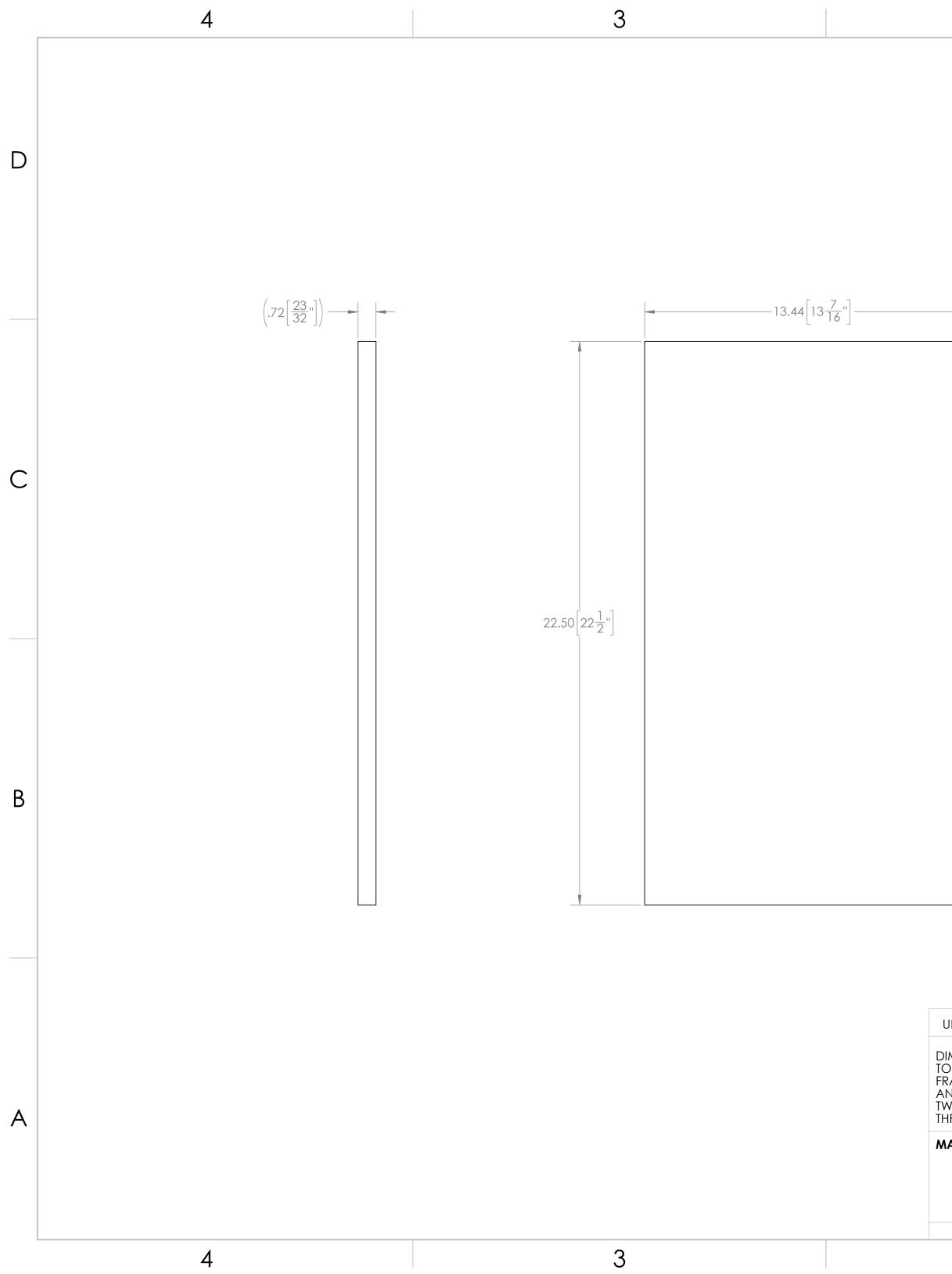
2				1			
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UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE	FIRST ROBO	TICS	S SOLID WORKS	
DIMENSIONS ARE IN INCHES			12/29/2021		ETITION	Modeling Solutions Partner	-
TOLERANCES: FRACTIONAL±1/16		ARY AND CON RMATION CON		TITLE: HUB - S	imple	Build -	
ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ±.13	THIS DRAV	VING IS THE SC (OF FIRST ®. A	LE	HUB - S Fender S	ide Ho	prizontal	•
THREE PLACE DECIMAL ±.125	reprodu	CTION IN PART	OR AS A		2x4		A
MATERIAL/FINISH: 2"x4" Lumber	PERMISSIO	ON OF FIRST ® IS		SIZE DWG. NO	Э.	REV	
	COMMEN			C TE	-2201	4	
		'E ALL BURRS A	ND SHARP				_
DO NOT SCALE DRAWING		EDGES.		SCALE: 1:1	SH	EET 1 OF 1	
2				1			

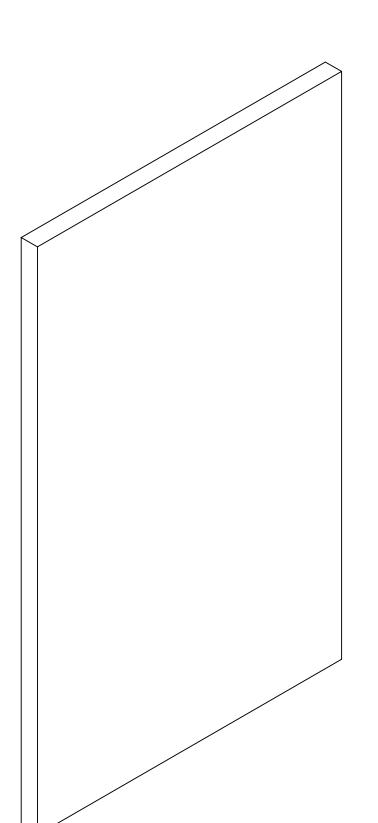


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UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE				S SOLID WORKS	
	DRAWN	КАМС	12/29/2021		Modeling Solutions Partner			
DIMENSIONS ARE IN INCHES OLERANCES: RACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1° WO PLACE DECIMAL ±.13 HREE PLACE DECIMAL ±.125	THE INFC THIS DRA PROPER REPROD	TARY AND CON DRMATION CON AWING IS THE SC TY OF <i>FIRST</i> ®. A DUCTION IN PART WITHOUT THE WI	ITAINED IN DLE .NY T OR AS A	HUB - Simple Build - Fender Side				
AATERIAL/FINISH: 3/4'' Plywood	-	ION OF FIRST® IS	SIZE DWG. NO.		· REV		_	
				C	TE-2	2201	6	_
	REMO	VE ALL BURRS A EDGES.	IND SHARP	SCA	LE: 1:3	SHF	et 1 of 1	
DO NOT SCALE DRAWING				SCALE. 1.5 SHEET I OI				

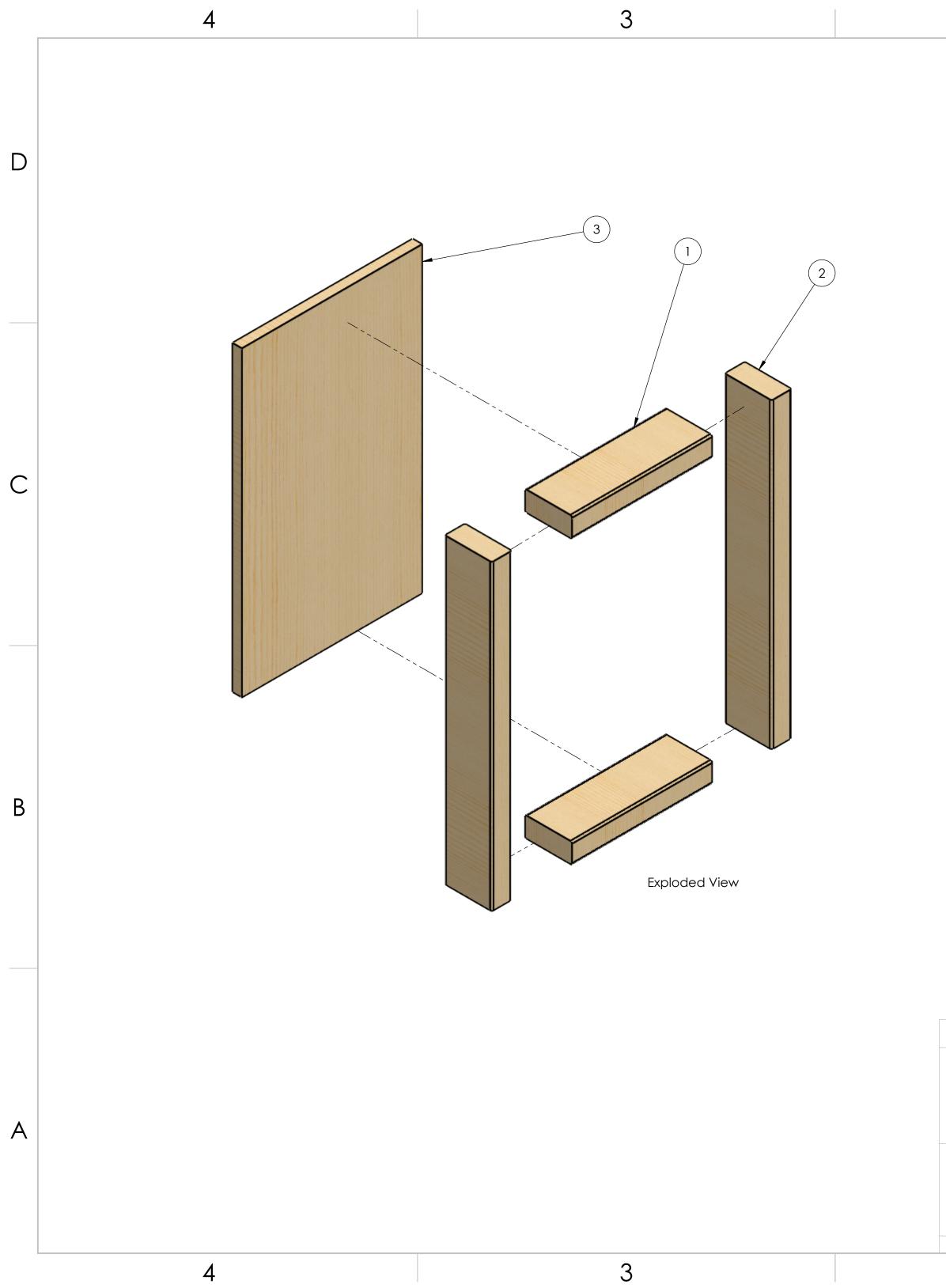
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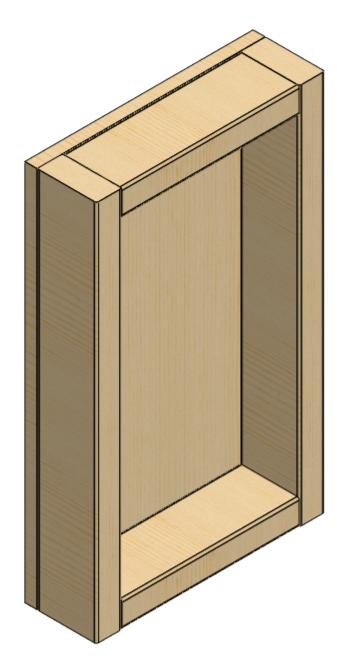
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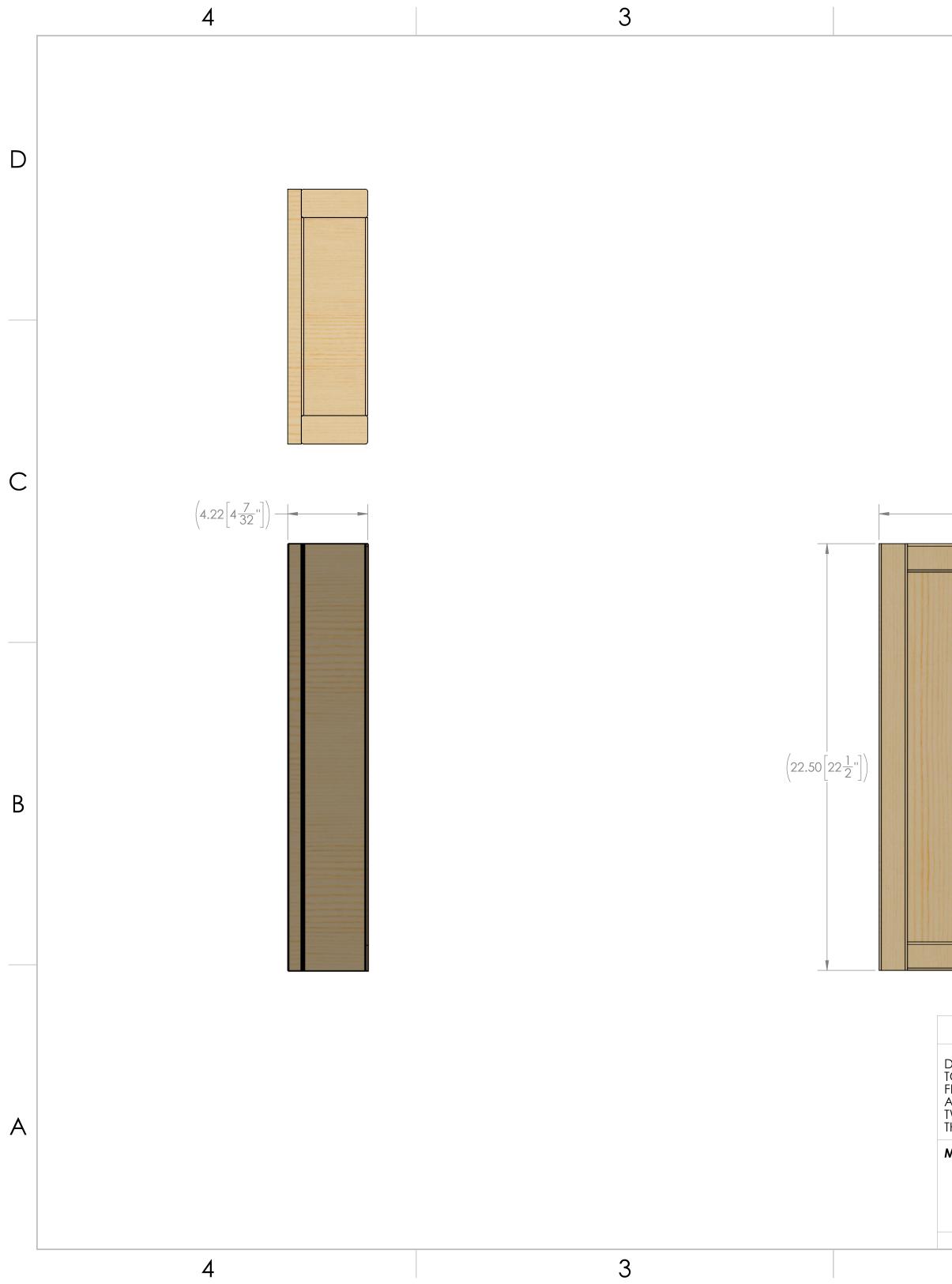
Hardware: #8 x 2" Long Screw - Qty 16 #8 x 2.5" Long Screw - Qty 8

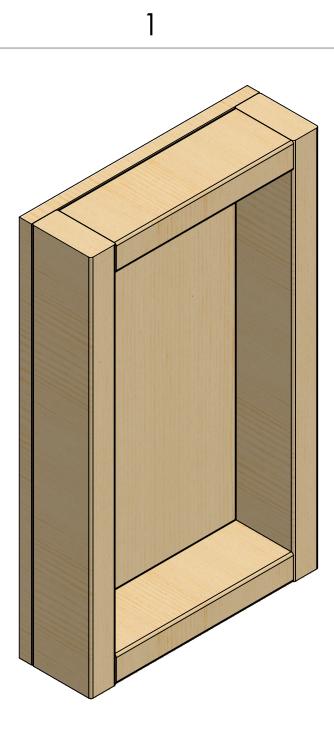
		- T						4
	ITEM NO.	PART NUM	/BER		DESCRIPTIO	N		
	1	TE-22014		HUB - Sim	nple Build - Fe Horizontal 2>	ender Side 4	2	
	2	TE-22015		HUB - Simp	le Build - Fer 2x4	der Vertical	2	
	3	TE-22016		HUB - Sirr	HUB - Simple Build - Fender Side]
UNLESS OTHERWISE SPECIFIED:	TEAM	EAM NAME DATE			FIRST.	25-		1
	DRAWN	КАМС	12/30/20)21	ROBOTI		DLID WORKS g Solutions Partner	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1 TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	 THE INFO THIS DRA PROPERT REPRODU 	FARY AND CON RMATION CON WING IS THE SC Y OF FIRST® . A JCTION IN PART WITHOUT THE WE	TAINED IN DLE NY I OR AS A			asic Builc de Assen	•	A
MATERIAL/FINISH:	PERMISSI	PERMISSION OF FIRST® IS PROHIBITED.			SIZE DWG. NO.		REV	-
	COMMEN	NTS:		C	IE-2	22017		
do not scale drawing	REMO	REMOVE ALL BURRS AND SHARP EDGES.			SCALE: 1:4 SHEET		OF 3	
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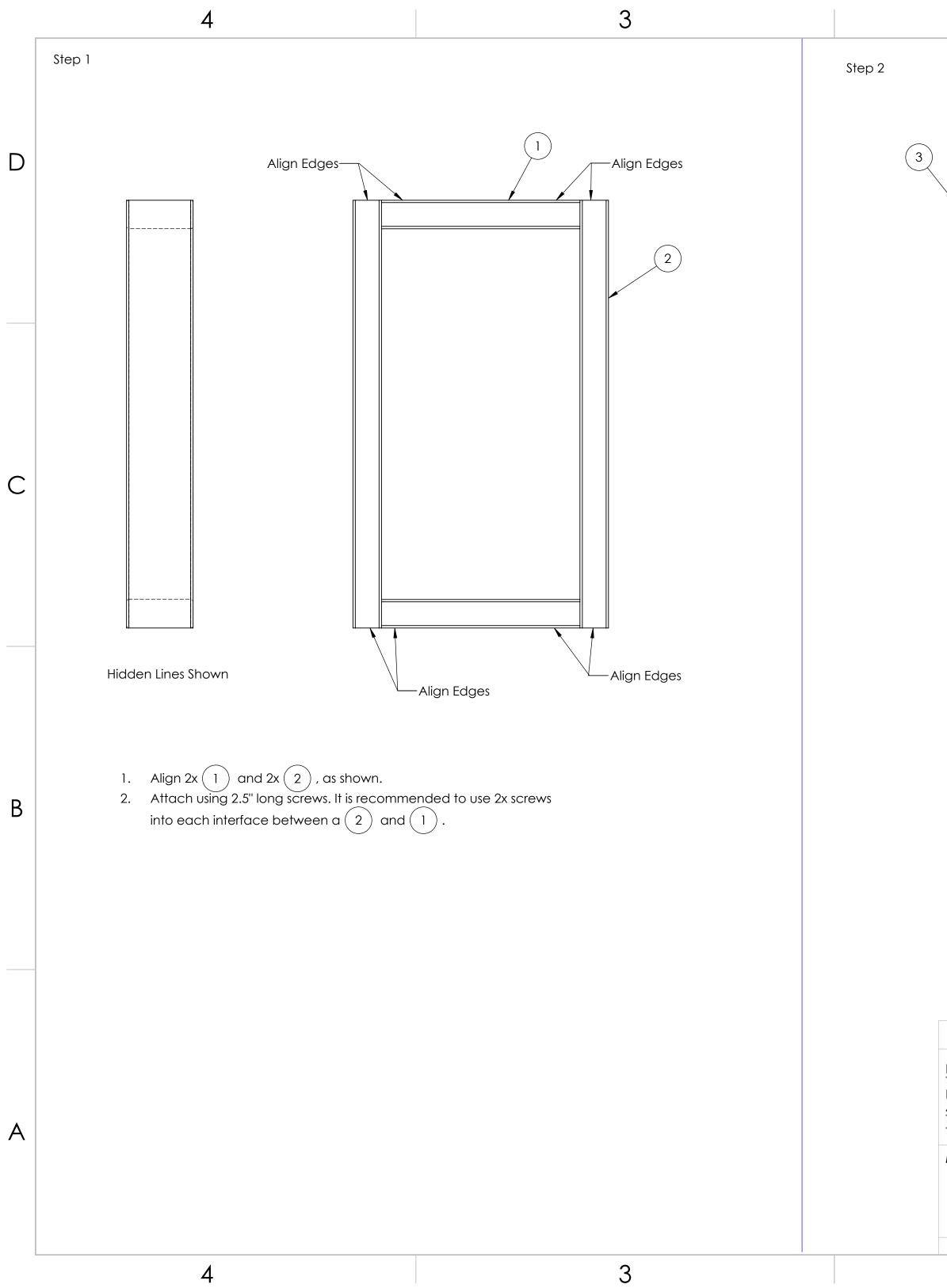


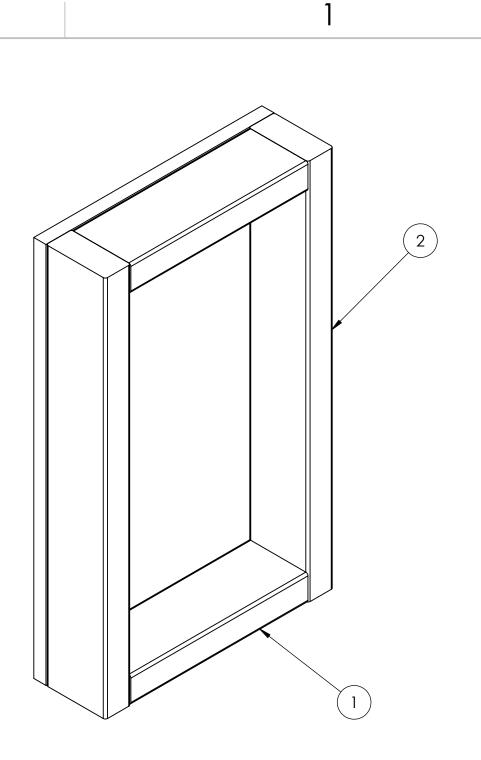
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$(13.44 \left[13\frac{7}{16}''\right])$								

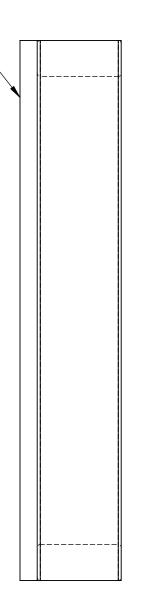
UNLESS OTHERWISE SPECIFIED:	TEAM	NAME		FIRST.		25 50117			
	DRAWN	KAMC	12/30/2021	ROBOTICS COMPETITION					
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND±1° TWO PLACE DECIMAL±.13 THREE PLACE DECIMAL±.125 MATERIAL/FINISH:	THE INFO THIS DRA PROPER REPROD WHOLE	TARY AND CON DRMATION CON WING IS THE SC TY OF <i>FIRST</i> ®. A UCTION IN PAR WITHOUT THE W ION OF <i>FIRST</i> ®	TITLE: HUB - Basic Build - Fender Side Assembly					А	
	PROHIBITED.			C TE-22017					
	COMME						/		
	REMO	REMOVE ALL BURRS AND SHARP EDGES.			SCALE: 1:4 SH		EET 2 C)F 3	
do not scale drawing									
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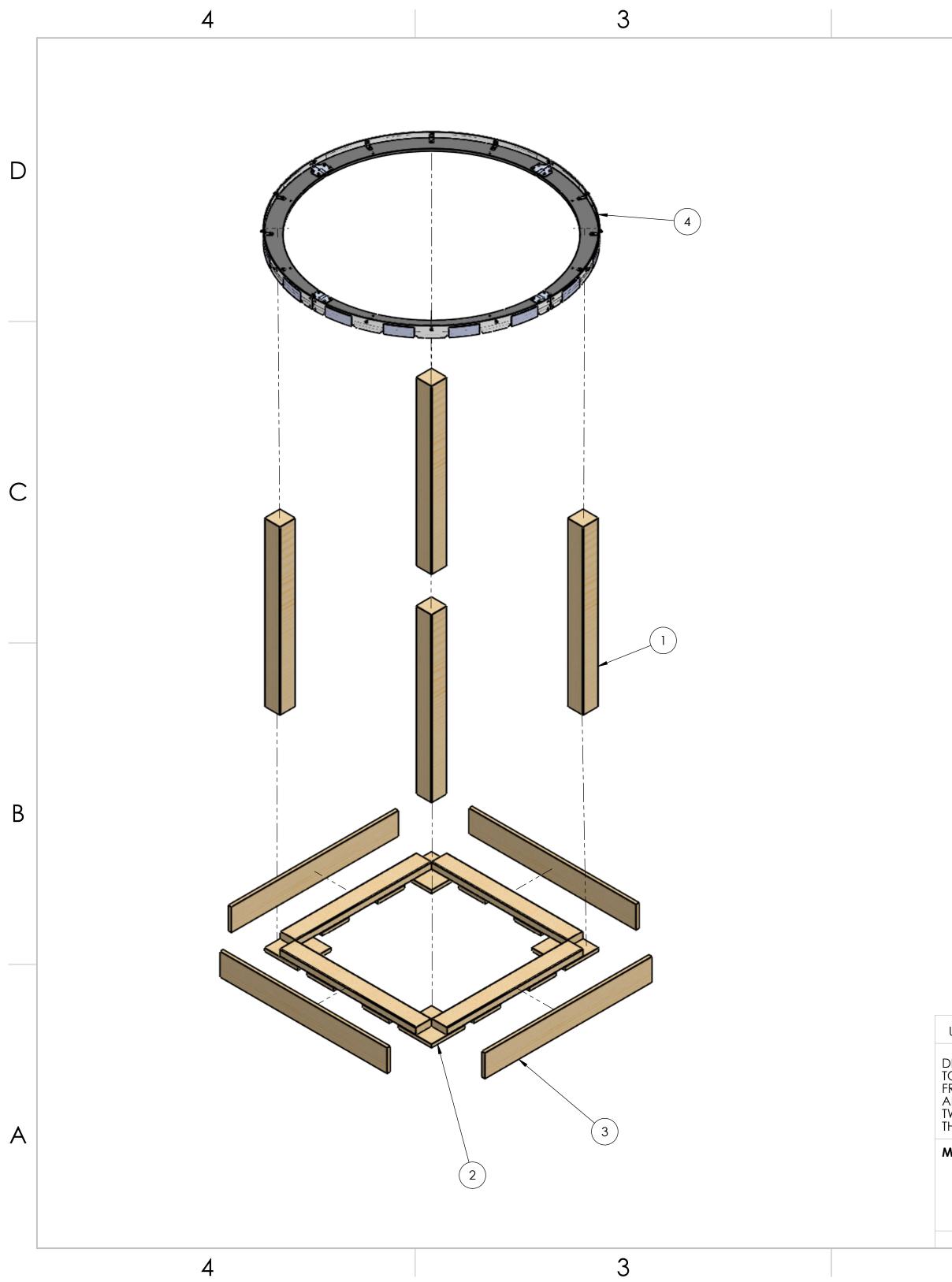


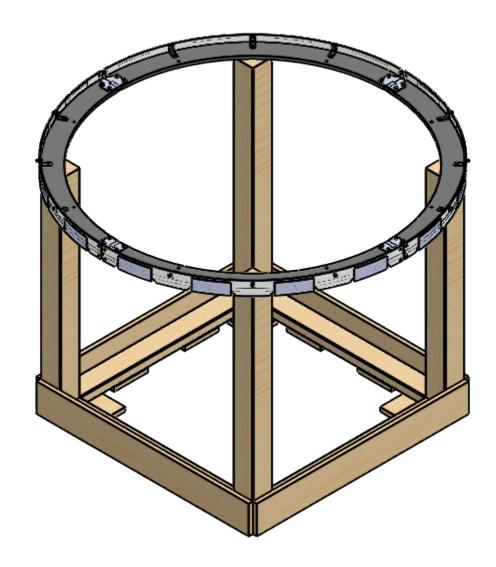
2

Hidden Lines Shown

- Align 3 to the assembly made in Step 1, as shown.
 Attach using 2" Long Screws. It is recommended to use 5x screws into
- 2. Attach using 2" Long Screws. It is recommended to use 5x screws into each $\begin{pmatrix} 2 \end{pmatrix}$ and 3x screws into each $\begin{pmatrix} 1 \end{pmatrix}$.

UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE		FIRST.	35.50		
	DRAWN KAMC 12/30/2021				ROBOTI		LIDWORKS Solutions Partner	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	THE INFO THIS DRA PROPERT REPRODI	TARY AND CON RMATION CON WING IS THE SC Y OF FIRST ®. A JCTION IN PAR	NTAINED IN DLE ANY T OR AS A	HUB - Basic Build - Fender Side Assemb				
MATERIAL/FINISH:	PERMISSI	WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED.			DWG. NO.		REV	-
	COMMENTS:				IE-2	22017		
do not scale drawing	REMO'	VE ALL BURRS A EDGES.	and sharp	SCALE: 1:4		SHEET 3	OF 3	
2					1			_





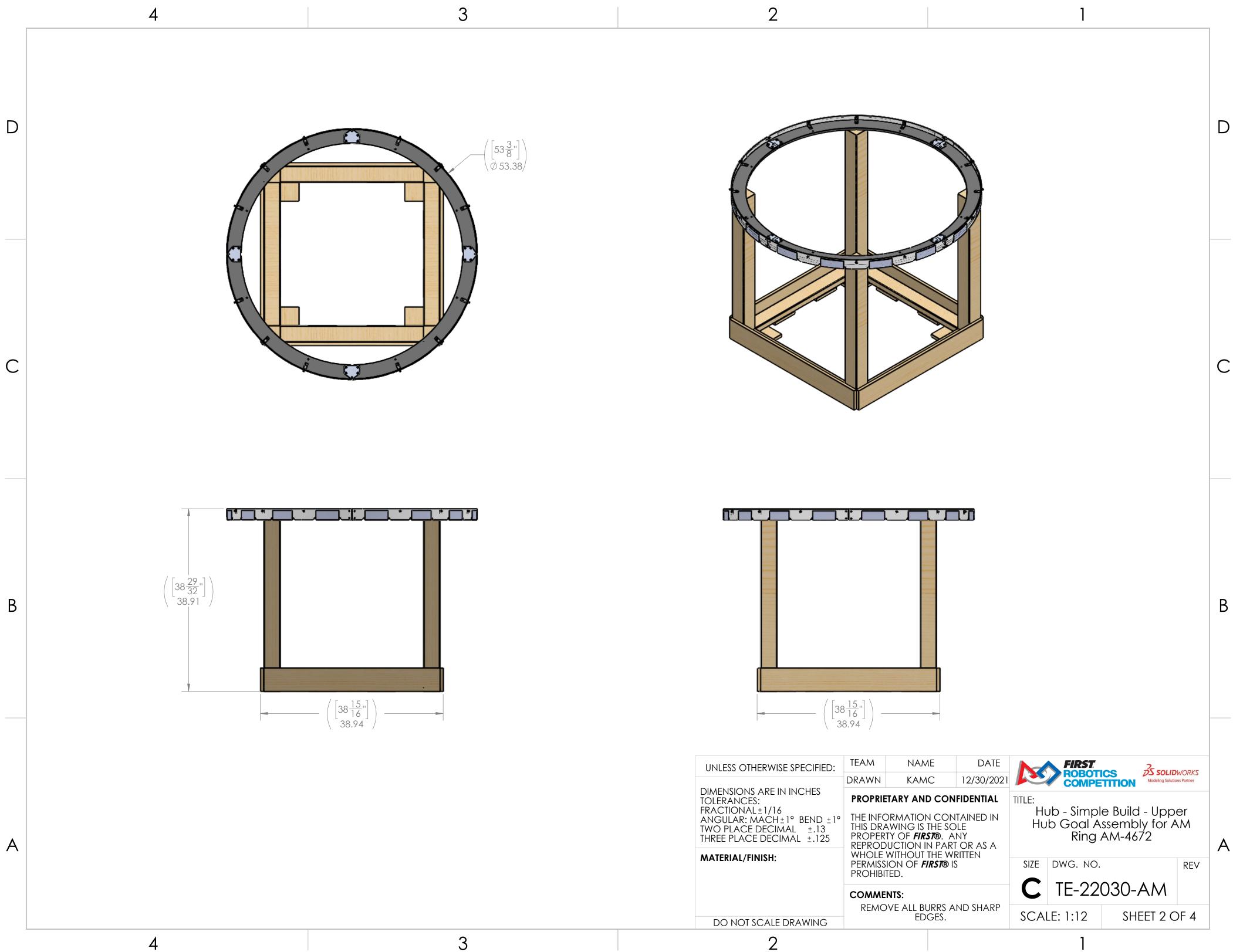
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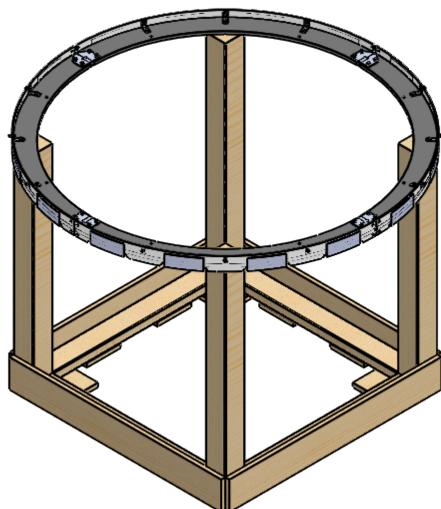
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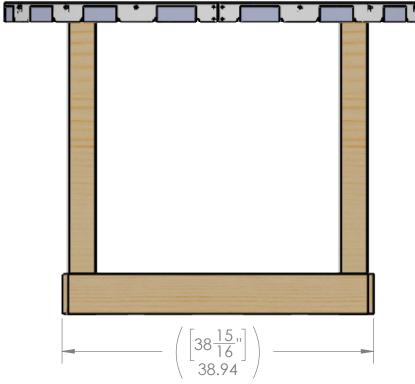
Note: Use Assembly TE-22030-AM if pairing with AndyMark's AM-4672 Assembly

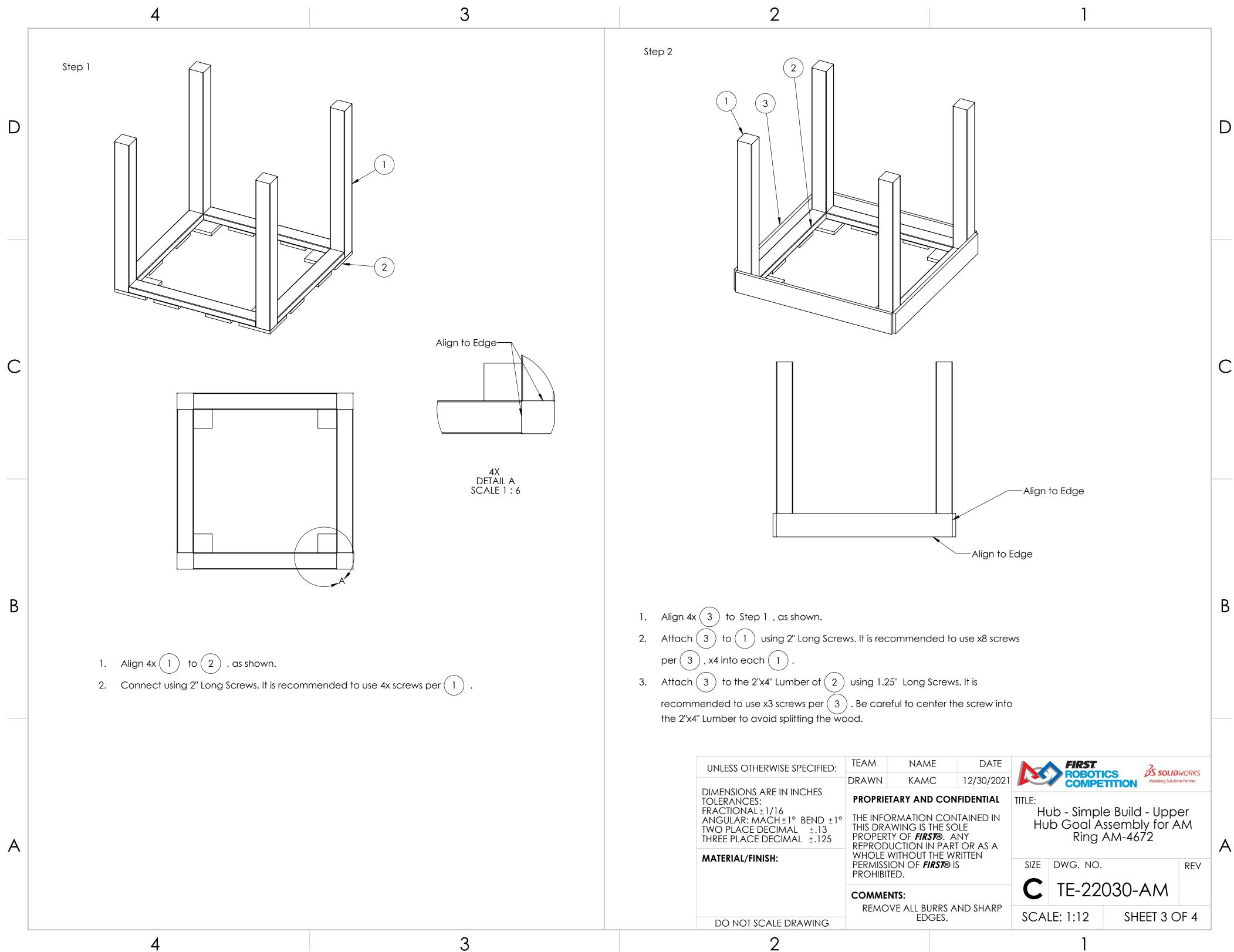
Hardware Needed: #8 x 1.25" Long Screw - Qty 12 #8 x 2" Long Screw - Qty 60

	ITEM NO.	PAR		\BER			DESCRIPTIO	N	(QTY.	1
-	1	TE-22036	-AM		Hub -	Simpl 4x4 fo	e Build - Upp or AM Ring A	oer Hub M-4672	Goal	4	
_	2	TE-22038	5		Hub -		e Build - Upp ottom Assem		Goal	1	
	3	TE-22037	,		Hub - R€	Simple Simple	e Build - Upp gle Connec	per Hub tion Plat	Goal e	4	
	4	AM-4672	AM-4672		And	AndyMark Produced - Upper Hub Vision Ring			Hub	1	
UNLESS OTHERWISE SPECIFIED:	TEAM	NAM	E	DAT	E		FIRST.	00	25 SOLID	MORKS	
	DRAWN	KAMO	2	12/30/20	021 丿	D21 COMPETITION DS SOLIDWORKS Modeling Solutions Partner					
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND±1° TWO PLACE DECIMAL±.13 THREE PLACE DECIMAL±.125	 THE INFC THIS DRA PROPERT 	PROPERTY OF FIRST® . ANY REPRODUCTION IN PART OR AS A			Hub - Simple Build - Upper Hub Goal Assembly for AM Ring AM-4672					A	
MATERIAL/FINISH:	-	ION OF FII				SIZE	DWG. NO.			REV	
		COMMENTS:			D	C	TE-22030-AN		AM		_
do not scale drawing	KEMO	REMOVE ALL BURRS AND SHARP EDGES.				SCAL	LE: 1:12 SHEET 1)F 4	
2							1				

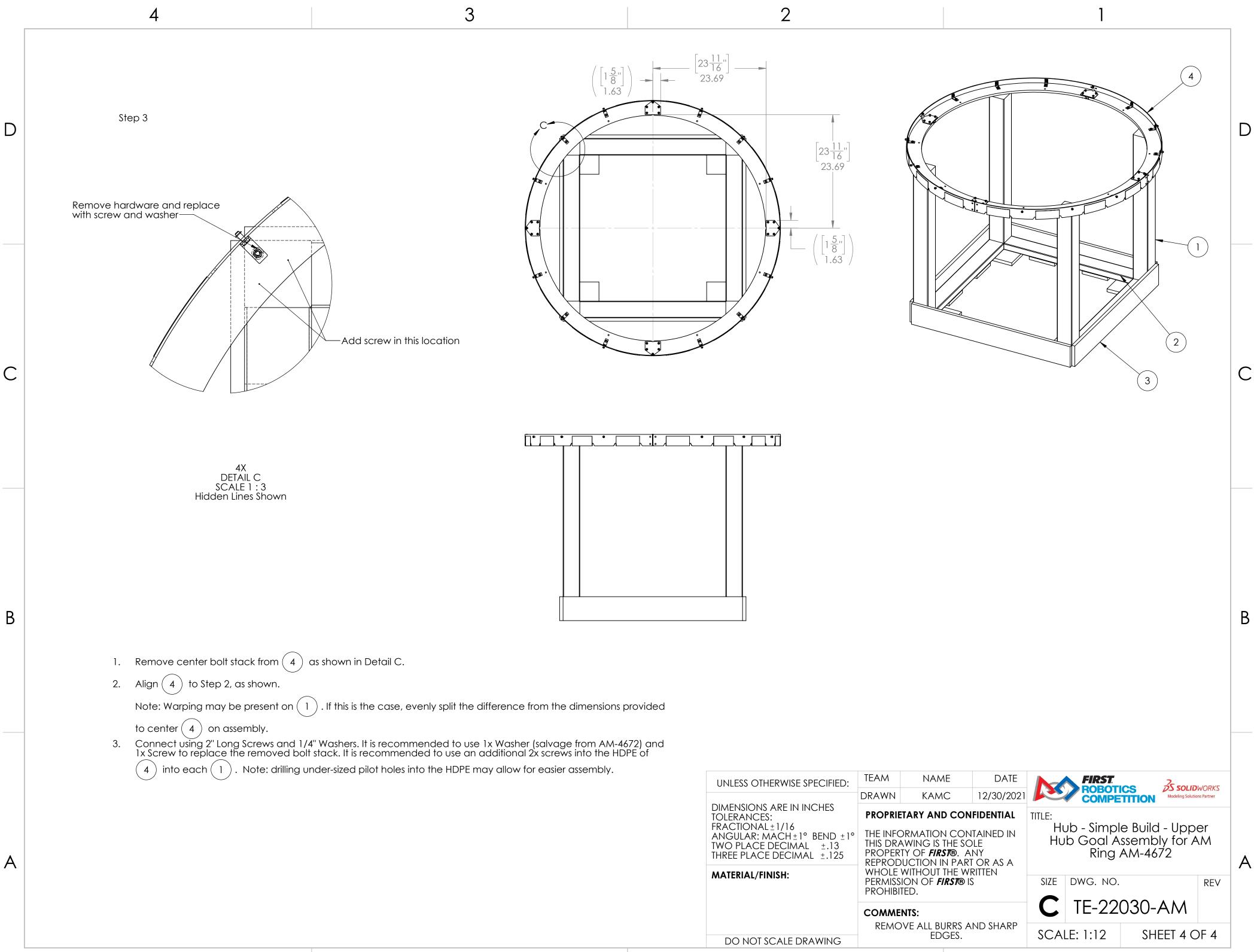


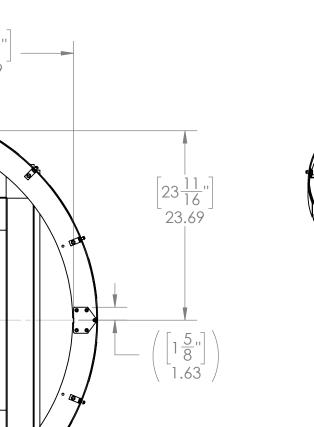


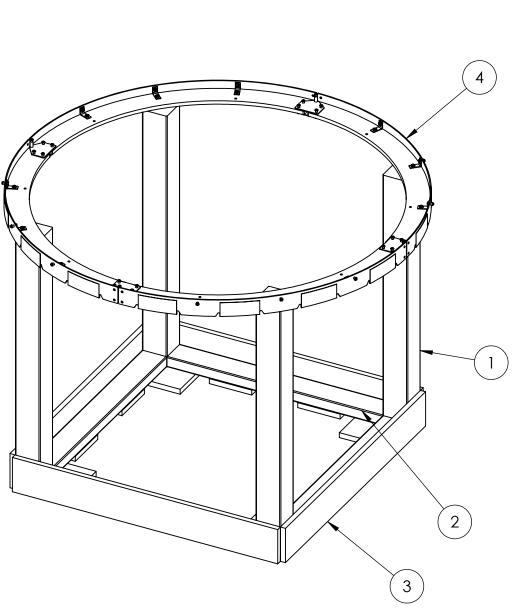




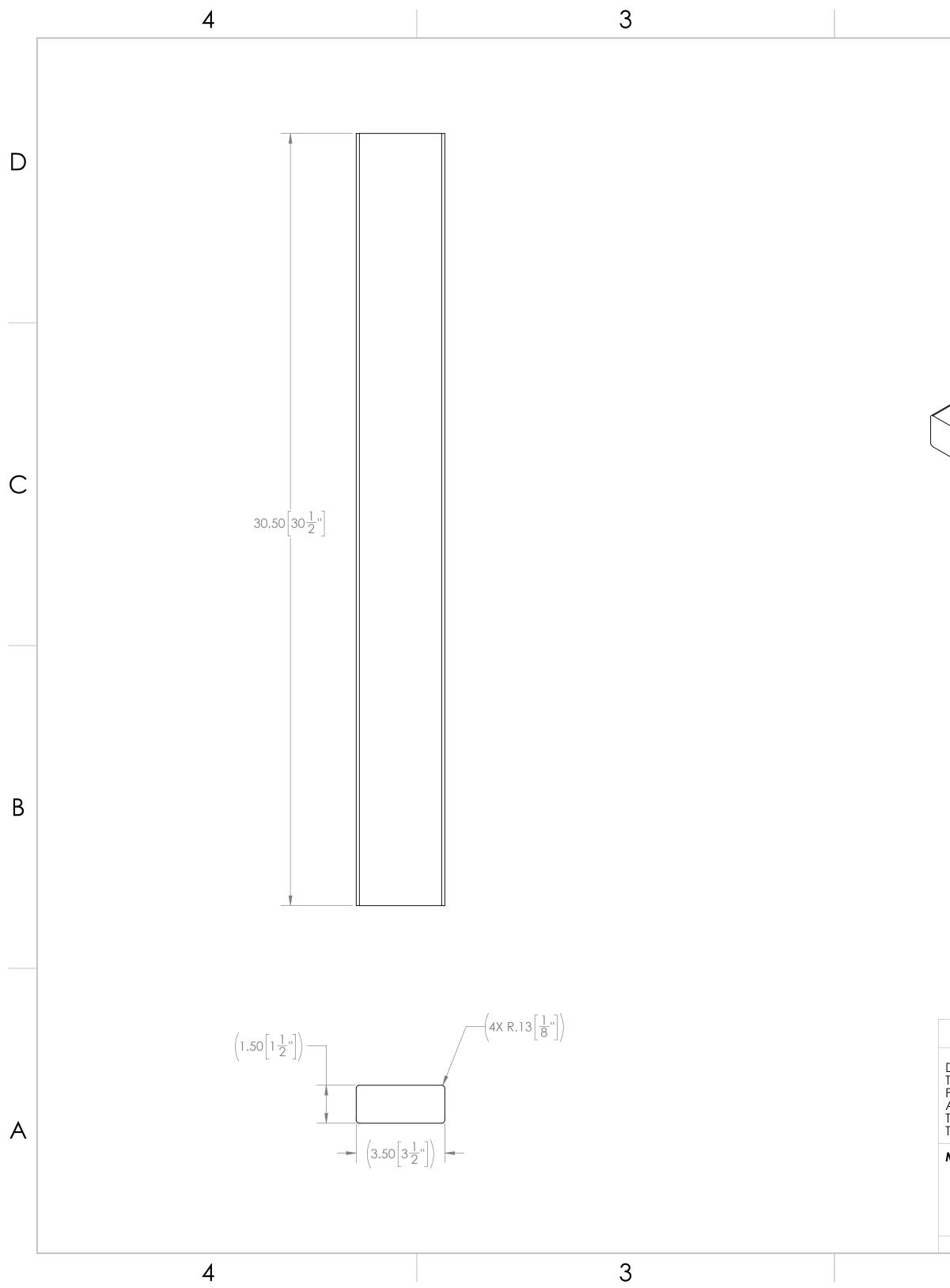
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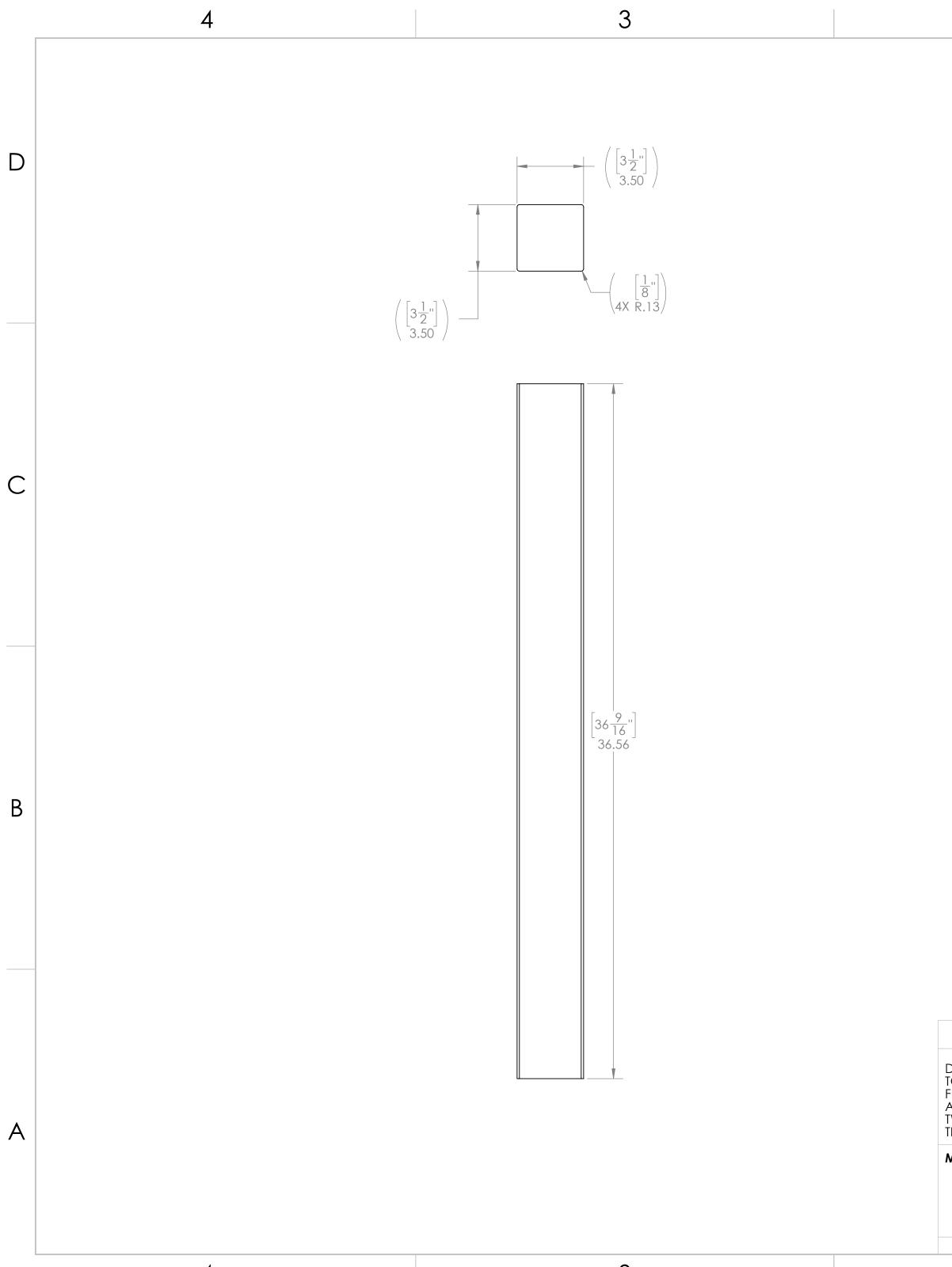








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UNLESS OTHERWISE SPECIFIED:	TEAM NAN DRAWN KAM		FIRST. ROBOTI	S SOLIDWORKS	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	PROPRIETARY AN THE INFORMATIO THIS DRAWING IS PROPERTY OF <i>FIR</i> REPRODUCTION I	D CONFIDENTIAL N CONTAINED IN THE SOLE ST®. ANY N PART OR AS A	TITLE: Hub - Sin Upper Hu	nple Build - b Goal 2x4	A
MATERIAL/FINISH: 2"x4" Lumber	WHOLE WITHOUT PERMISSION OF F PROHIBITED.	ihe wriifen F irst ® Is	size dwg. no.	22035	
DO NOT SCALE DRAWING	REMOVE ALL B	URRS AND SHARP GES.	SCALE: 1:3	Sheet 1 of 1	



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FIRST. ROBOTICS COMPETITION TEAM NAME DATE UNLESS OTHERSTOR DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND±1° TWO PLACE DECIMAL±.125 MATERIAL/FINISH: ""-4" Lumber ""-4" Lumber ""-4" Lumber DIMENSION OF FIRST® IS PROHIBITED. UNLESS OTHERWISE SPECIFIED: S SOLIDWORKS Modeling Solutions Partner PROPRIETARY AND CONFIDENTIAL TITLE:

COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.

Hub - Simple Build -Upper Hub Goal 4x4 for AM Ring AM-4672 SIZE DWG. NO. REV С TE-22036-AM SCALE: 1:4 SHEET 1 OF 1

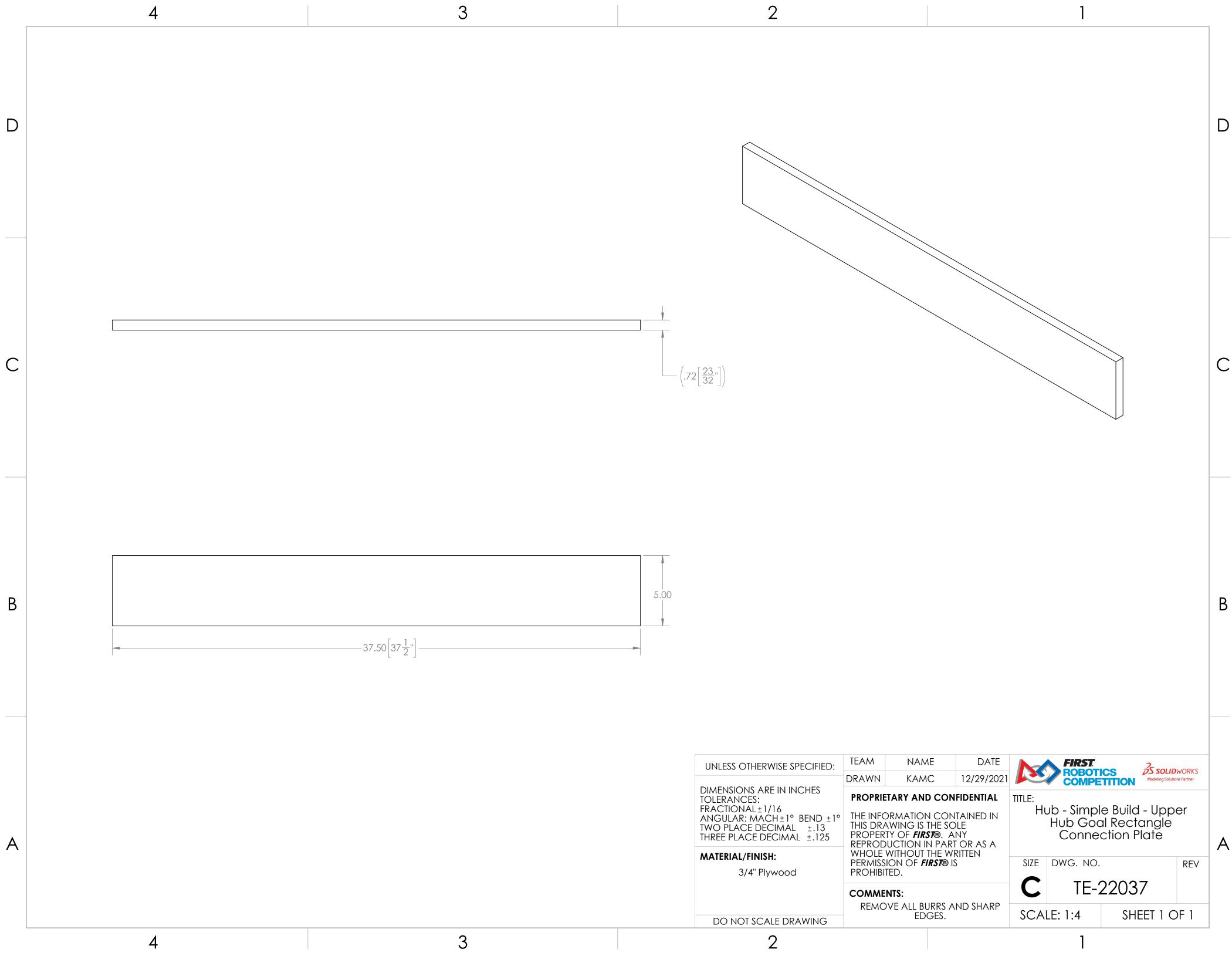
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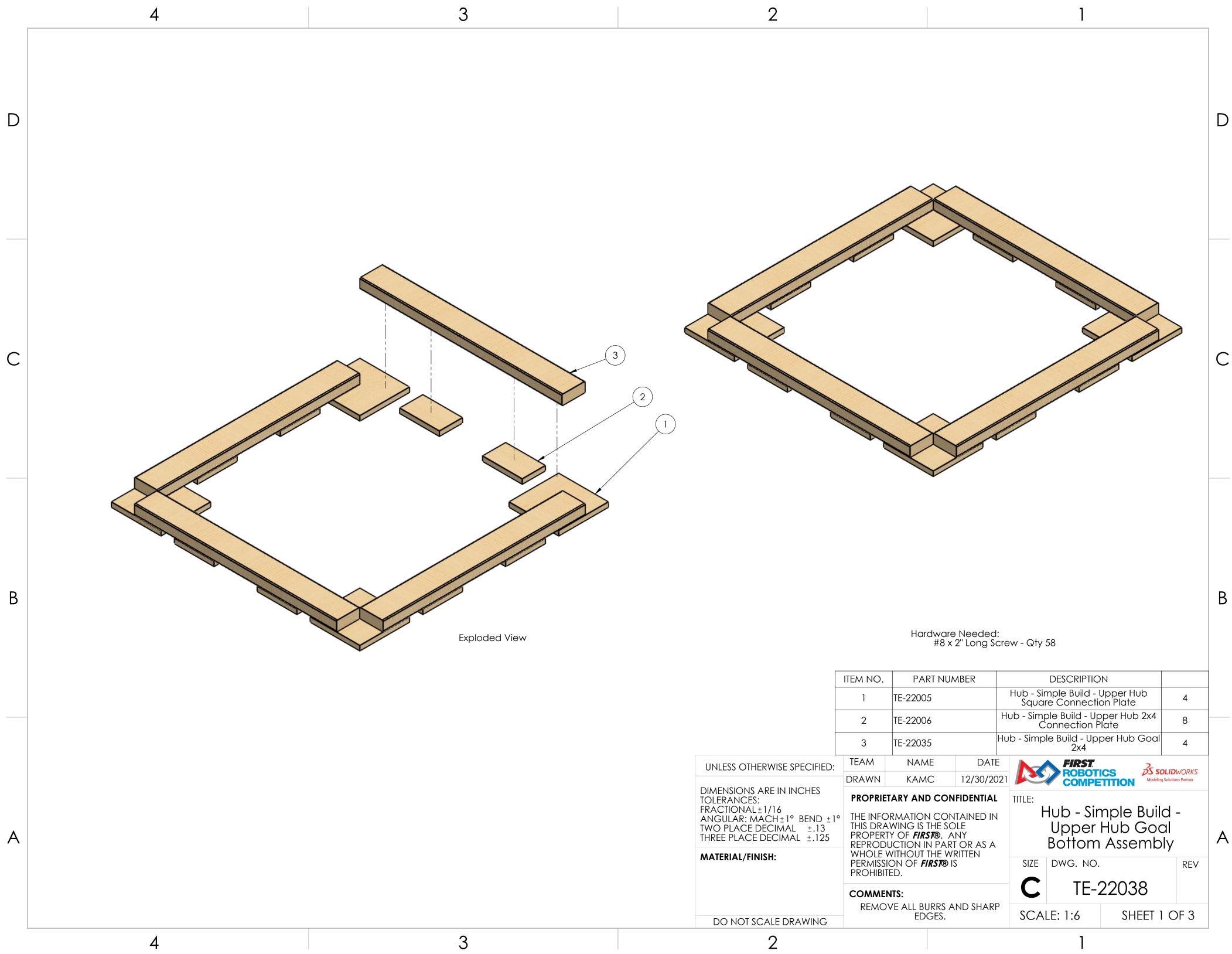
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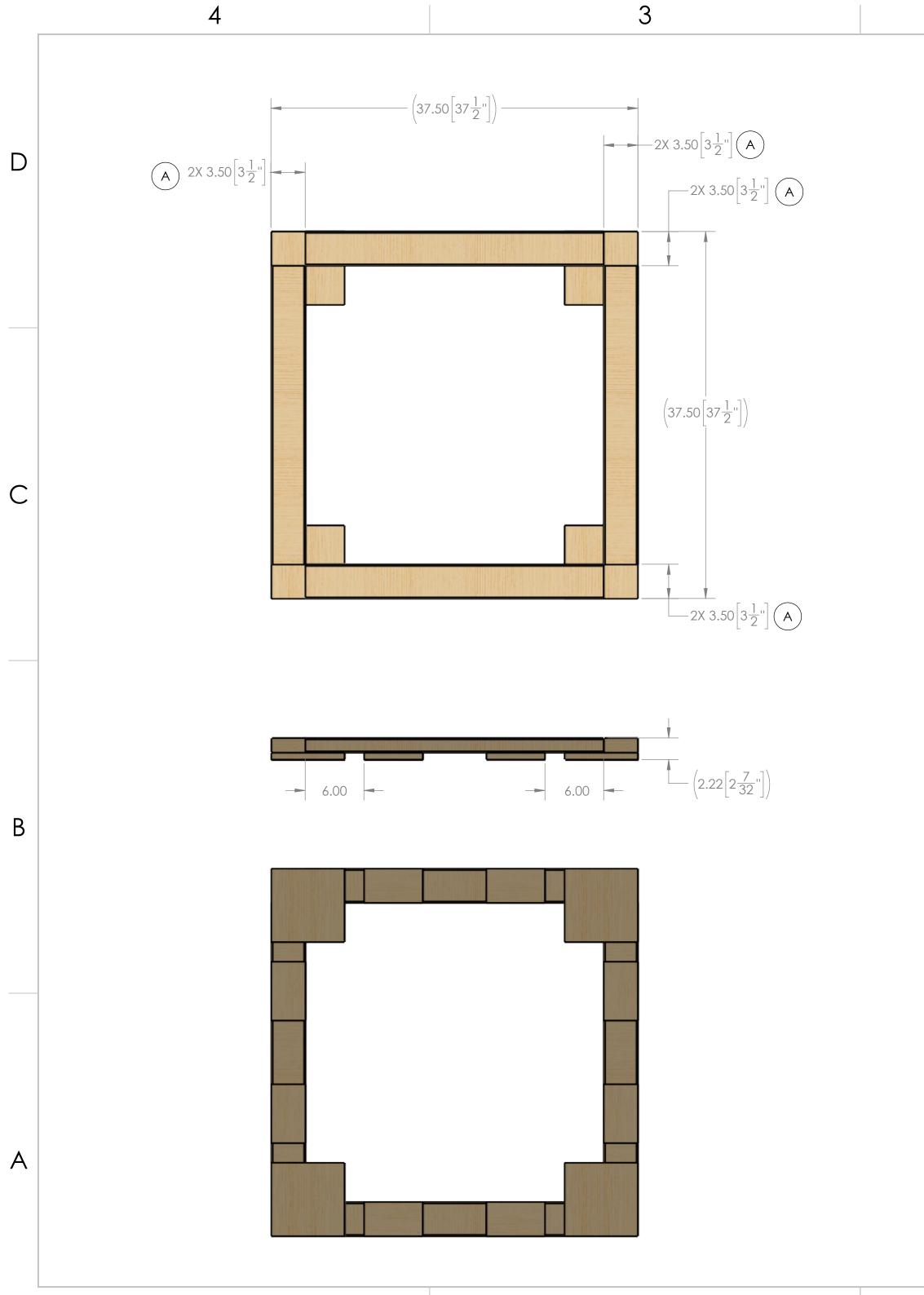
DO NOT SCALE DRAWING



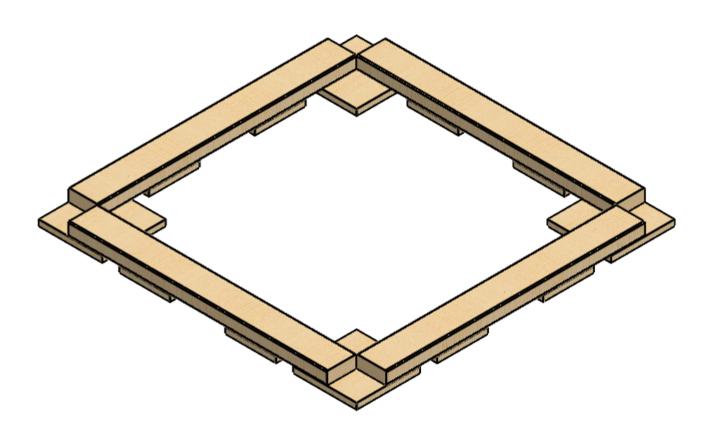
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	ITEM NO.	PAI	rt num	/ BER		DESCRIPTIO	N]
	1	TE-2200	5		Hub - Si Squc	mple Build - I ire Connectio	Jpper Hu on Plate	du	4	
	2	TE-2200	6		Hub - Sim (ple Build - Up Connection P	per Hub late	o 2x4	8]
	3	TE-2203	5		Hub - Simp	lub - Simple Build - Upper Hub Goal 2x4			4	
UNLESS OTHERWISE SPECIFIED:	TEAM	NAM	۱E	DATE		FIRST.		ZS SOLI]
	DRAWN	KAM	С	12/30/20	21 🏴	21 ROBOTICS COMPETITION				
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1 TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125 MATERIAL/FINISH:	 THE INFO THIS DRA PROPERT REPRODU 	PROPRIETARY AND CON THE INFORMATION CON THIS DRAWING IS THE SO PROPERTY OF FIRST® . AI REPRODUCTION IN PART WHOLE WITHOUT THE WE			Hub - Simple Build - Upper Hub Goal					А
MATERIAL/FINIST.	PERMISSI PROHIBIT	on of f			SIZE	DWG. NO.		0	REV	
	COMMEN						2203	8		
			SURRS AND SHARP DGES.		SCA	SCALE: 1:6 SHEET		EET 1 C	1 OF 3	
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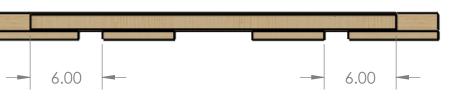
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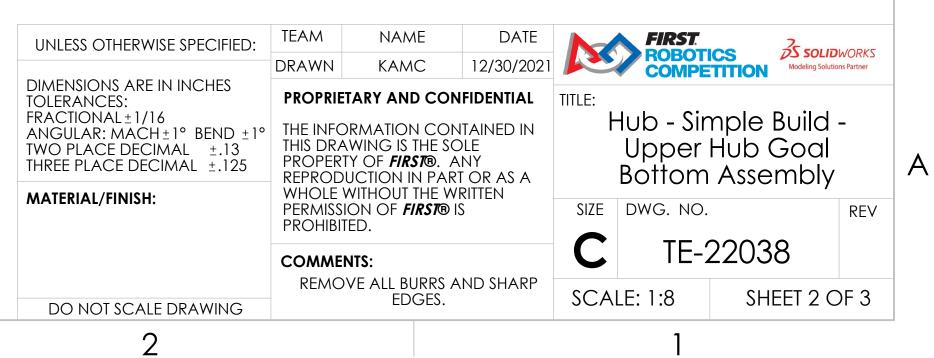
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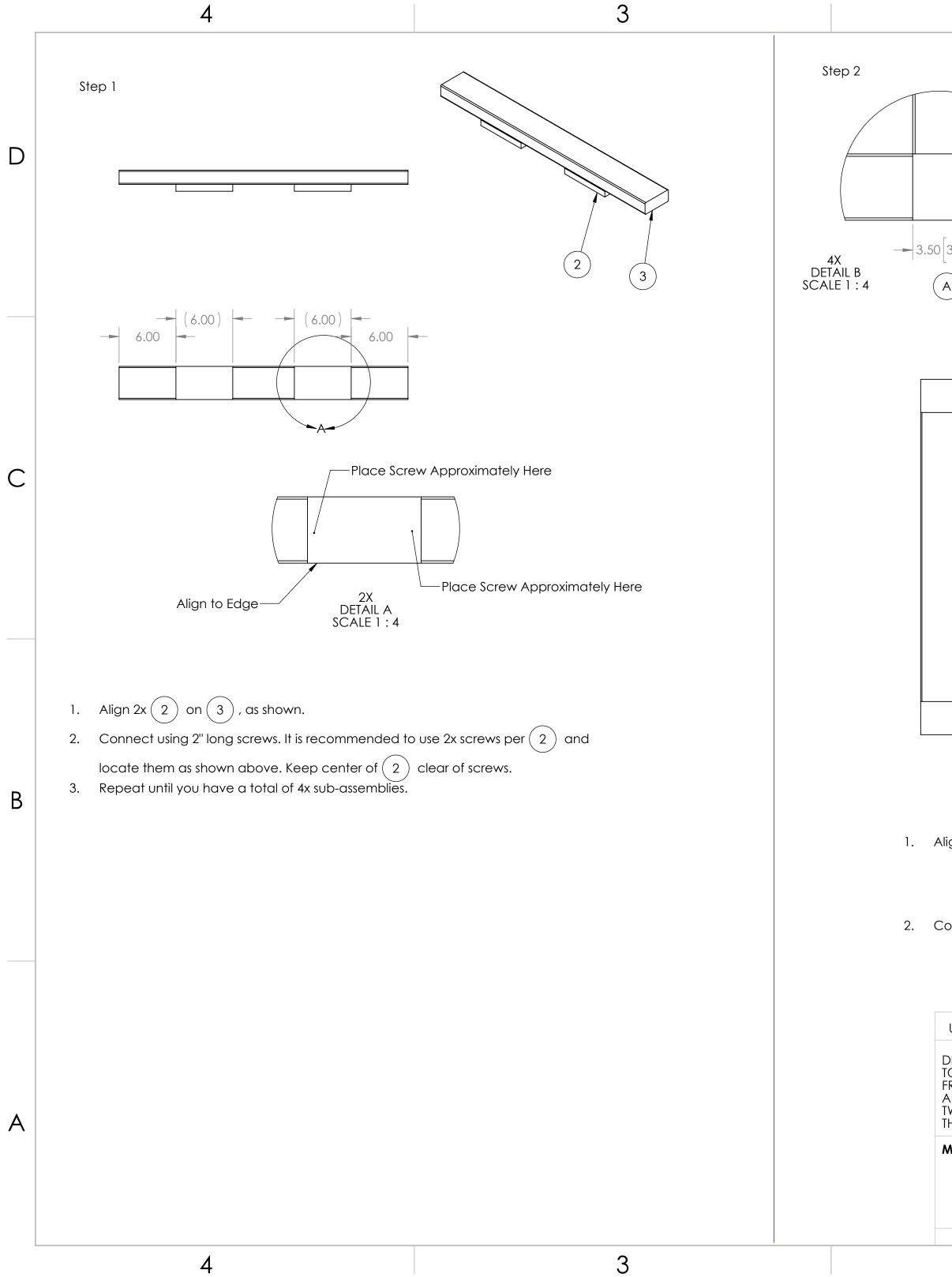


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Note:

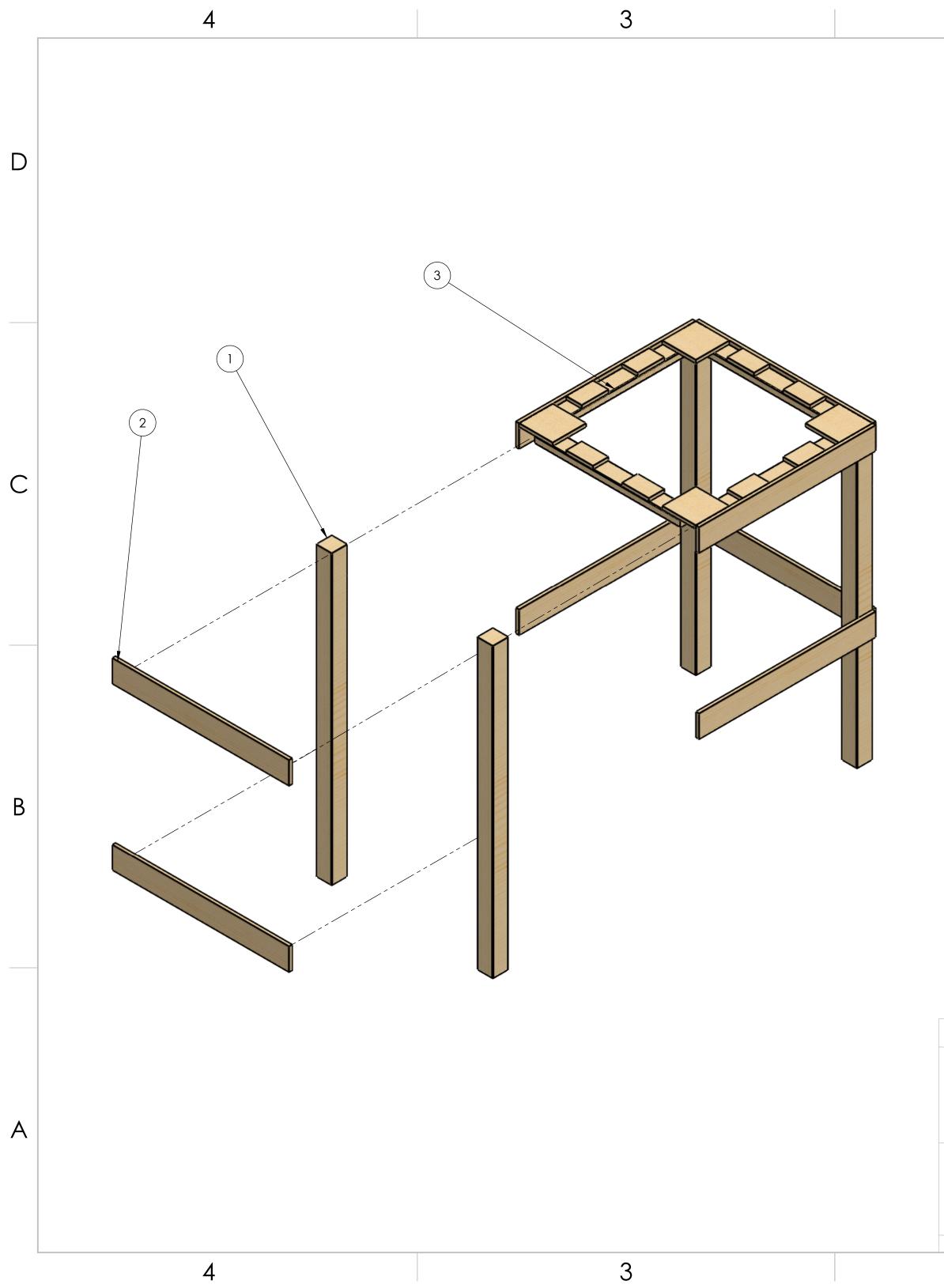
Dimensions with (A) indicate spacing for 4"x4" lumber from TE-22036 (or TE-22036-AM if you are connecting to AndyMark's Upper Hub Vision Ring AM-4672). It is recommended to measure the cross section of TE-22036 (or TE-22036-AM) and modify these dimensions as needed.

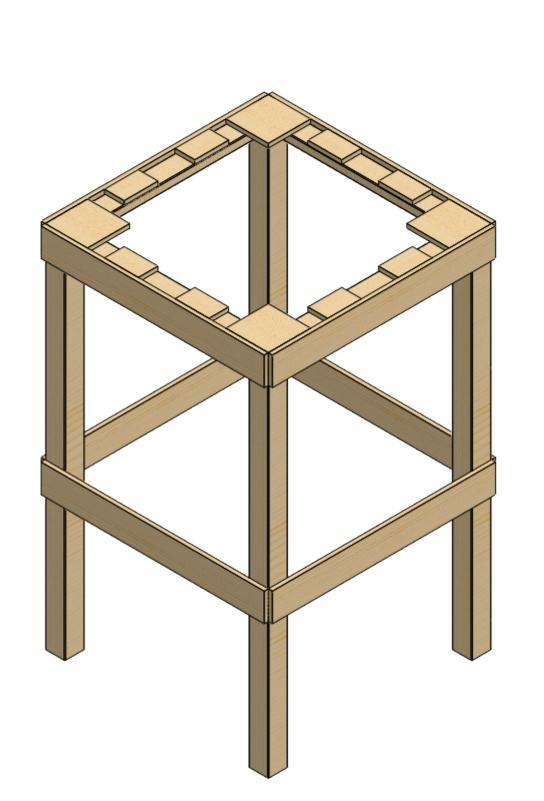




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lign 4x (1) to the 4x Step 1 assemblies, as shown. Dimensions with (A) indicate spacing for 4"x4" lumber from TE-22036 (or TE-22036-AM if you are connecting to AndyMark's Upper Hub Vision Ring AM-4672). It is recommended to measure the cross section of TE-22036 (or TE-22036-AM) and modify these dimensions as needed. onnect using 2" long screws. It is recommended to use 8x screws per (3), 4x into each end.	В
UNLESS OTHERWISE SPECIFIED: TEAM NAME DATE DIMENSIONS ARE IN INCHES TOLERANCES: DRAWN KAMC 12/30/2021 Image: Completion of the second of the	A

DO NOT SCALE DRAWING





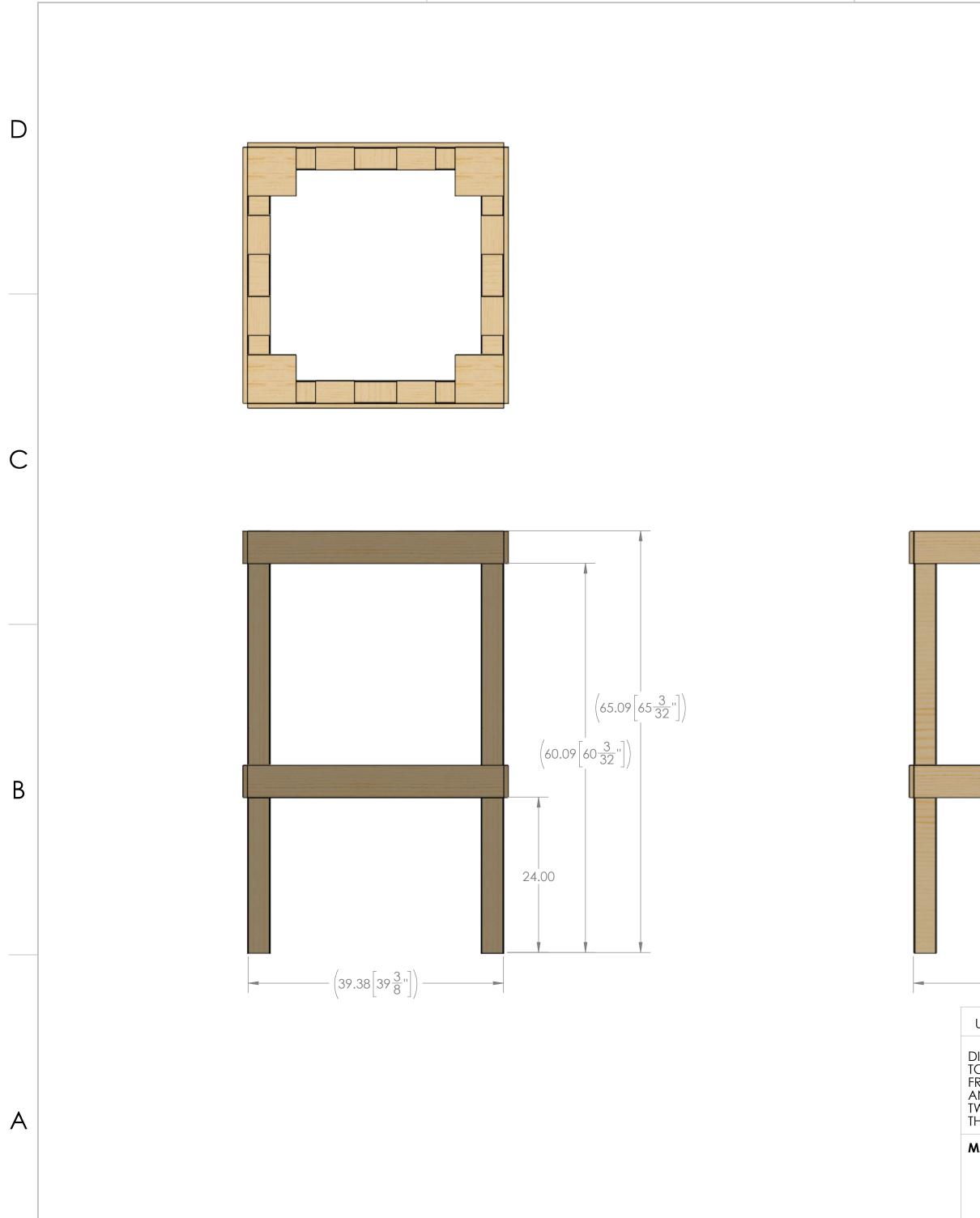
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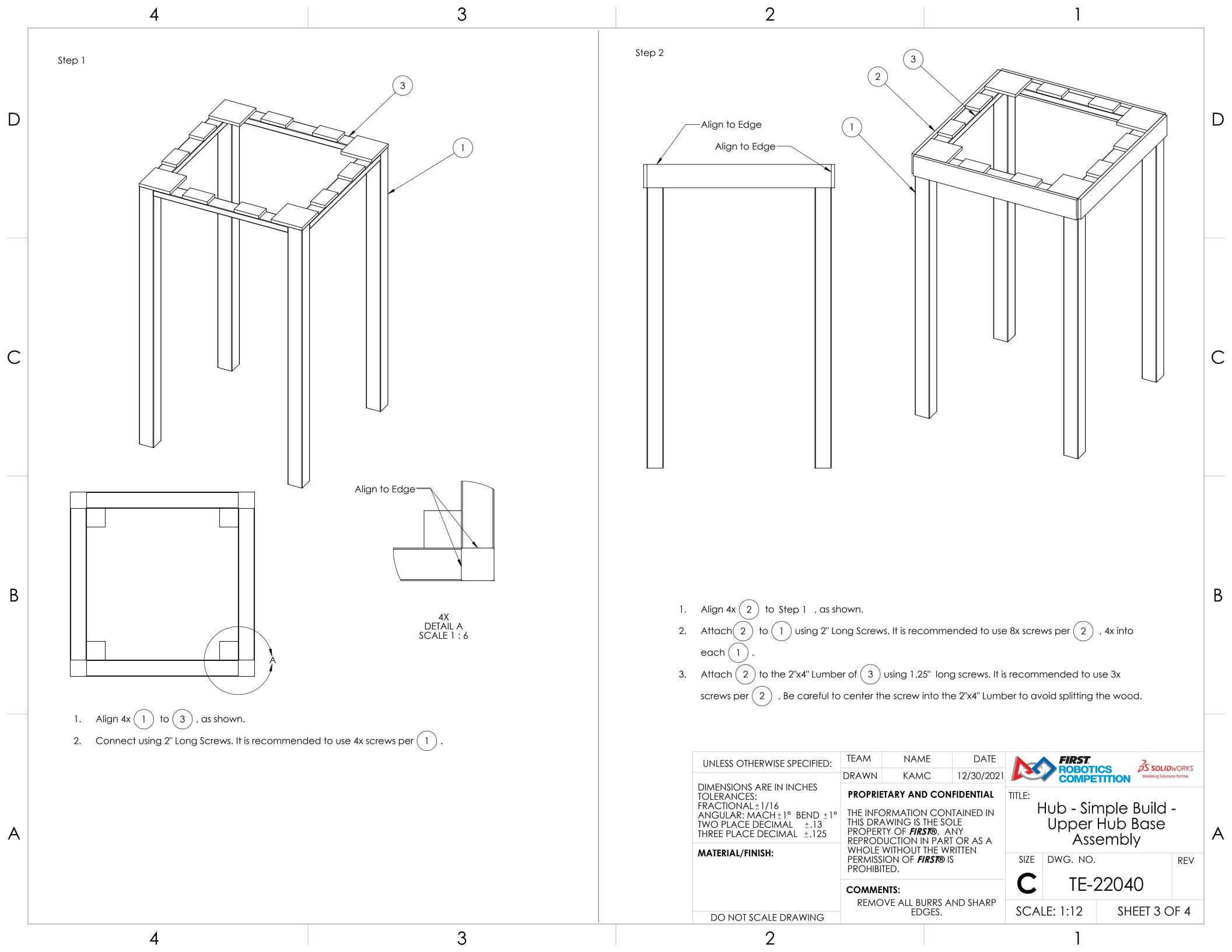
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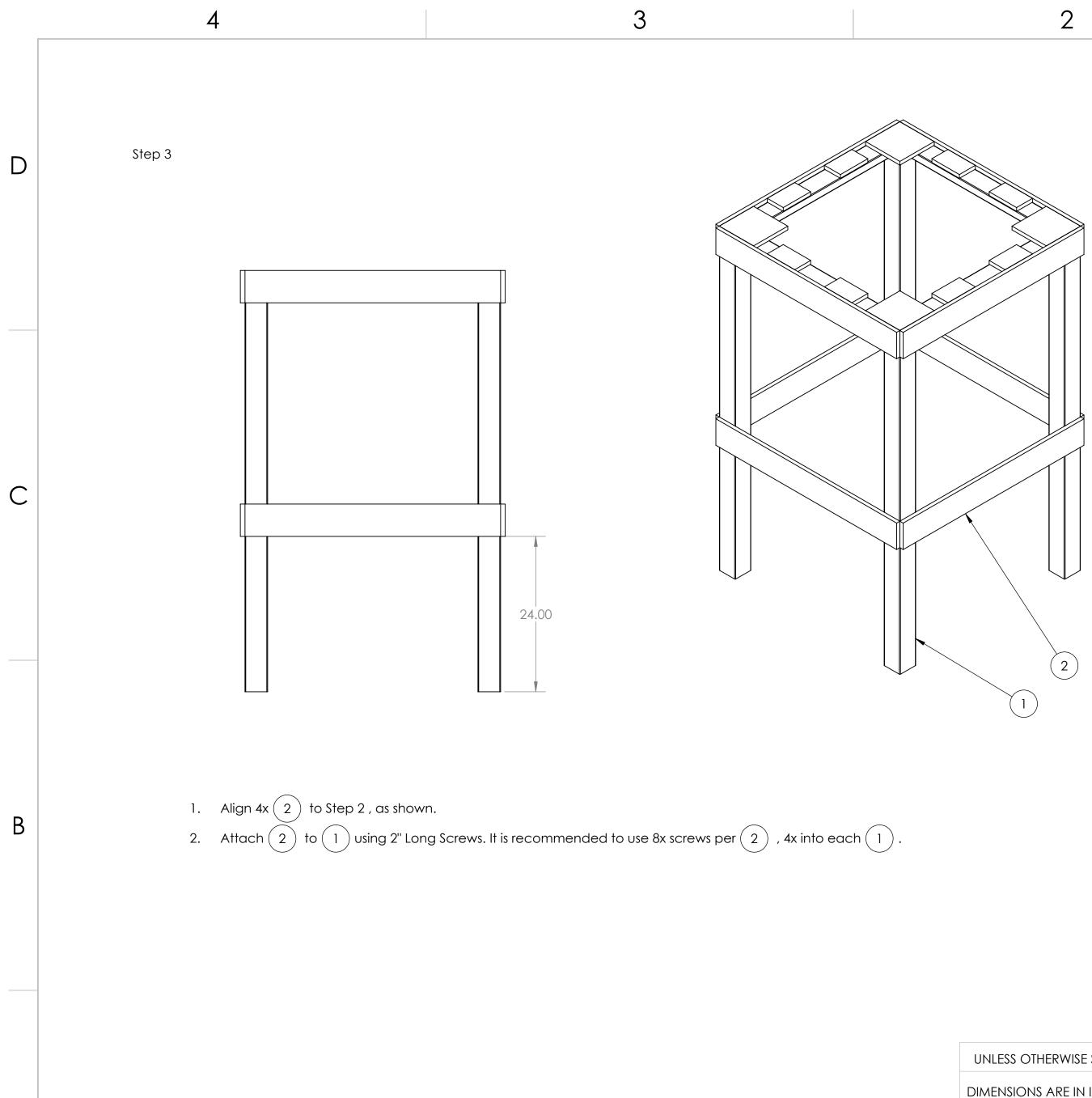
Hardware Needed: #8 x 1.25" Long Screw - Qty 12 #8 x 2" Long Screw - Qty 80

	ITEM NO.	PART NUA	ABER		DESCRIPTION	I		
_	1	TE-22042		Hub - Simp	le Build - Upp 4x4	er Hub Base	4	
_	2	TE-22043		Hub - Simp Recta	le Build - Upp ngle Connetic	er Hub Base on Plate	8	
_	3	TE-22044	44 Hu		ub - Simple Build - Upper Hub Base Top Assembly			
UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DAT	E	FIRST.	25.50	DLIDWORKS	
DIMENSIONS ARE IN INCHES	DRAWN	КАМС	12/30/20	021	ROBOTIC COMPET		Solutions Partner	
TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	THE INFO THIS DRA PROPER REPROD	TARY AND CON DRMATION CON WING IS THE SC IY OF FIRST® . A UCTION IN PART WITHOUT THE WI	TAINED IN DLE NY I OR AS A	, F	Hub Simple Ruild			
MATERIAL/FINISH:		ION OF FIRST® IS		SIZE	DWG. NO.		REV	
	COMME			C	TE-2	2040		
do not scale drawing	REMO	VE ALL BURRS A EDGES.	ND SHAR	SCA	CALE: 1:12 SHEET 1		OF 4	
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TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND±1° TWO PLACE DECIMAL±.13 THREE PLACE DECIMAL±.125 MATERIAL/FINISH:		N CONTAINED IN THE SOLE ST® . ANY N PART OR AS A THE WRITTEN	Upper I Asse	nple Build - Hub Base embly 22040 SHEET 2 OF 4	A
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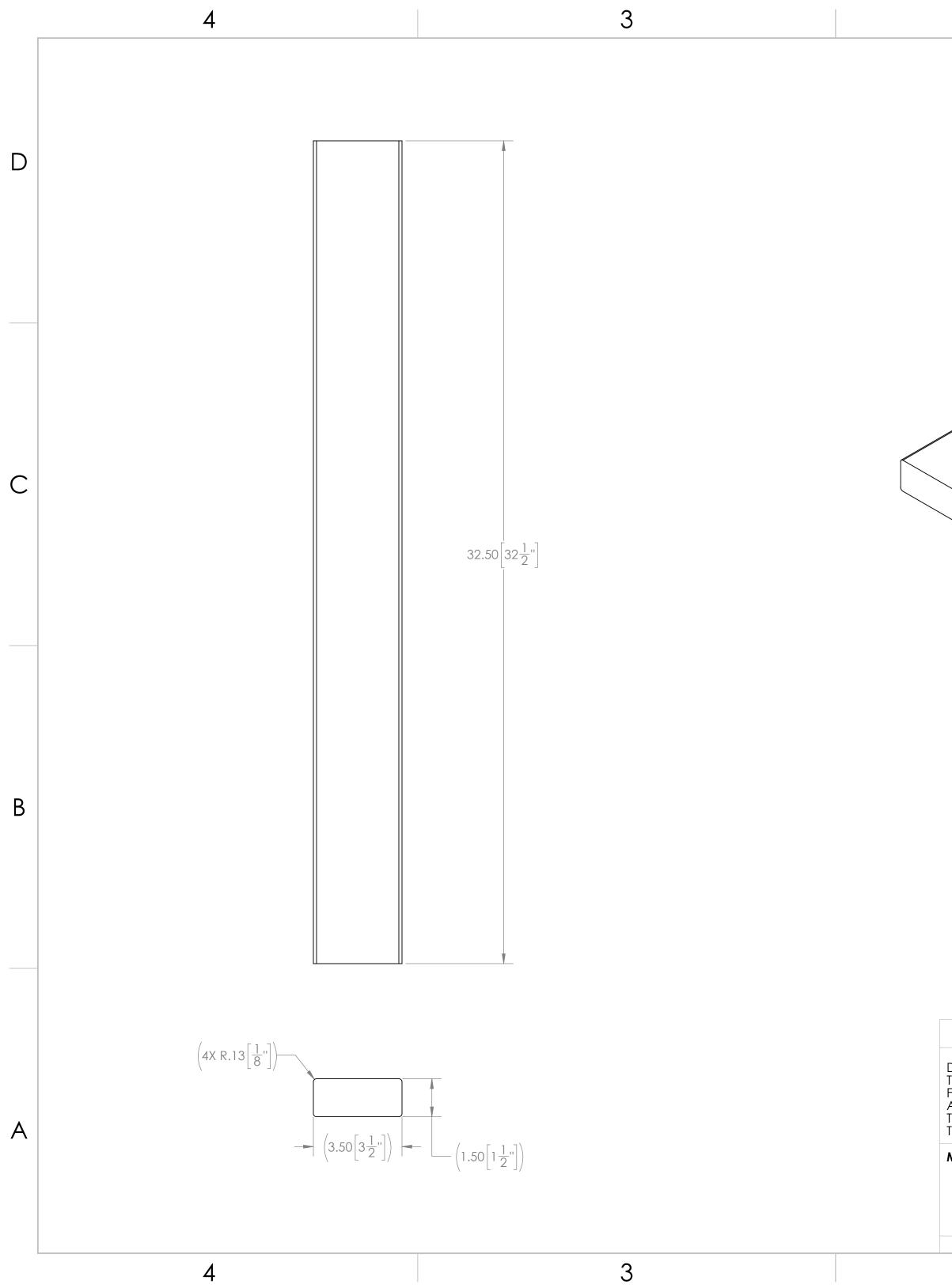
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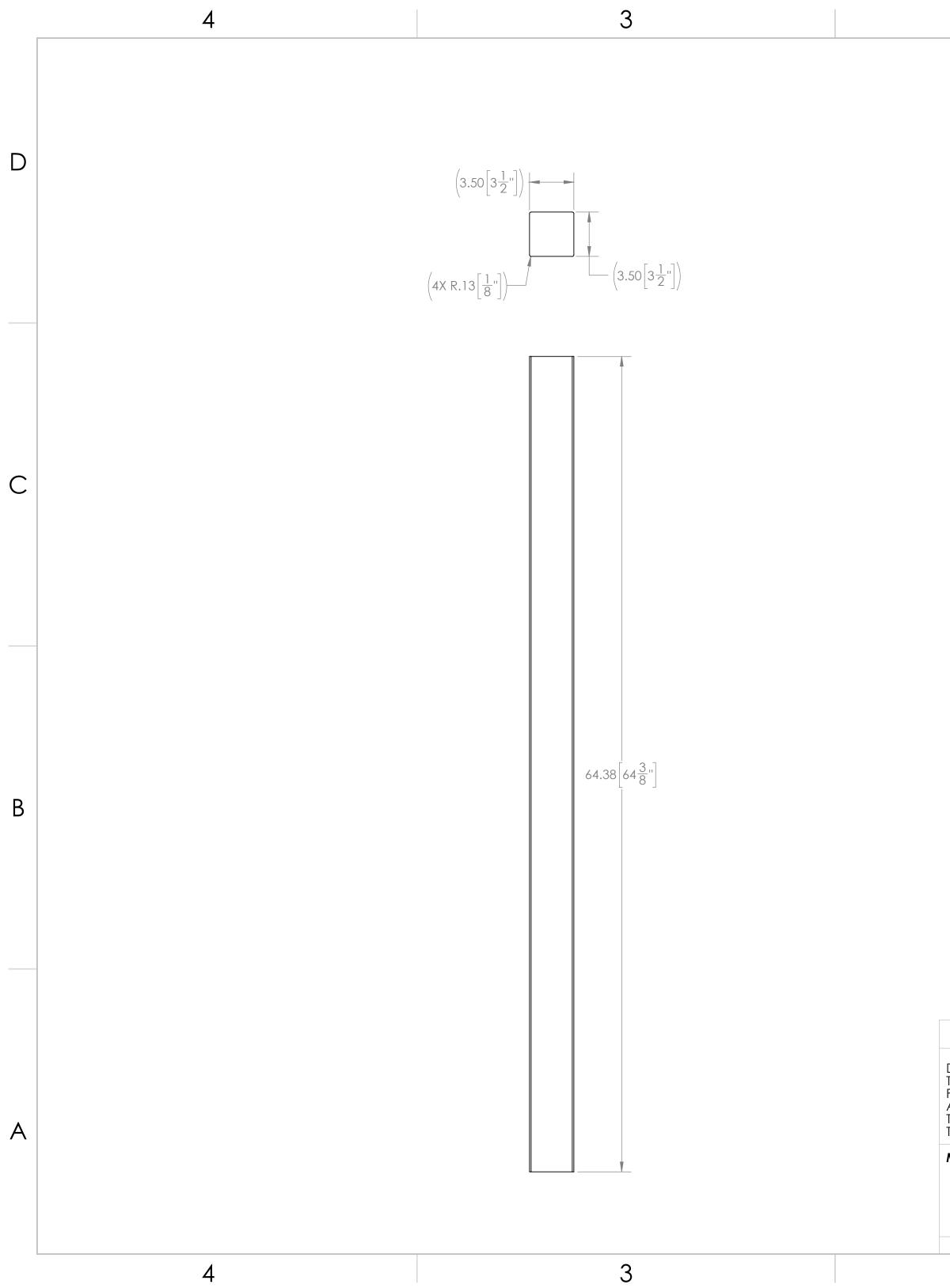
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	DRAWN	КАМС	12/30/2021	ROBOTICS COMPETITION					
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <i>FIRST</i> ®. ANY REPRODUCTION IN PART OR AS A			Hub - Simple Build - Upper Hub Base Assembly					A
MATERIAL/FINISH:	PERMISS	WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED.			DWG. NO.		•	REV	
	COMMENTS:			C	IE-2	2204	.()		
	REMC	REMOVE ALL BURRS AND SHARP							
DO NOT SCALE DRAWING		EDGES.	SCALE: 1:12 SHEET 4				/1 4		

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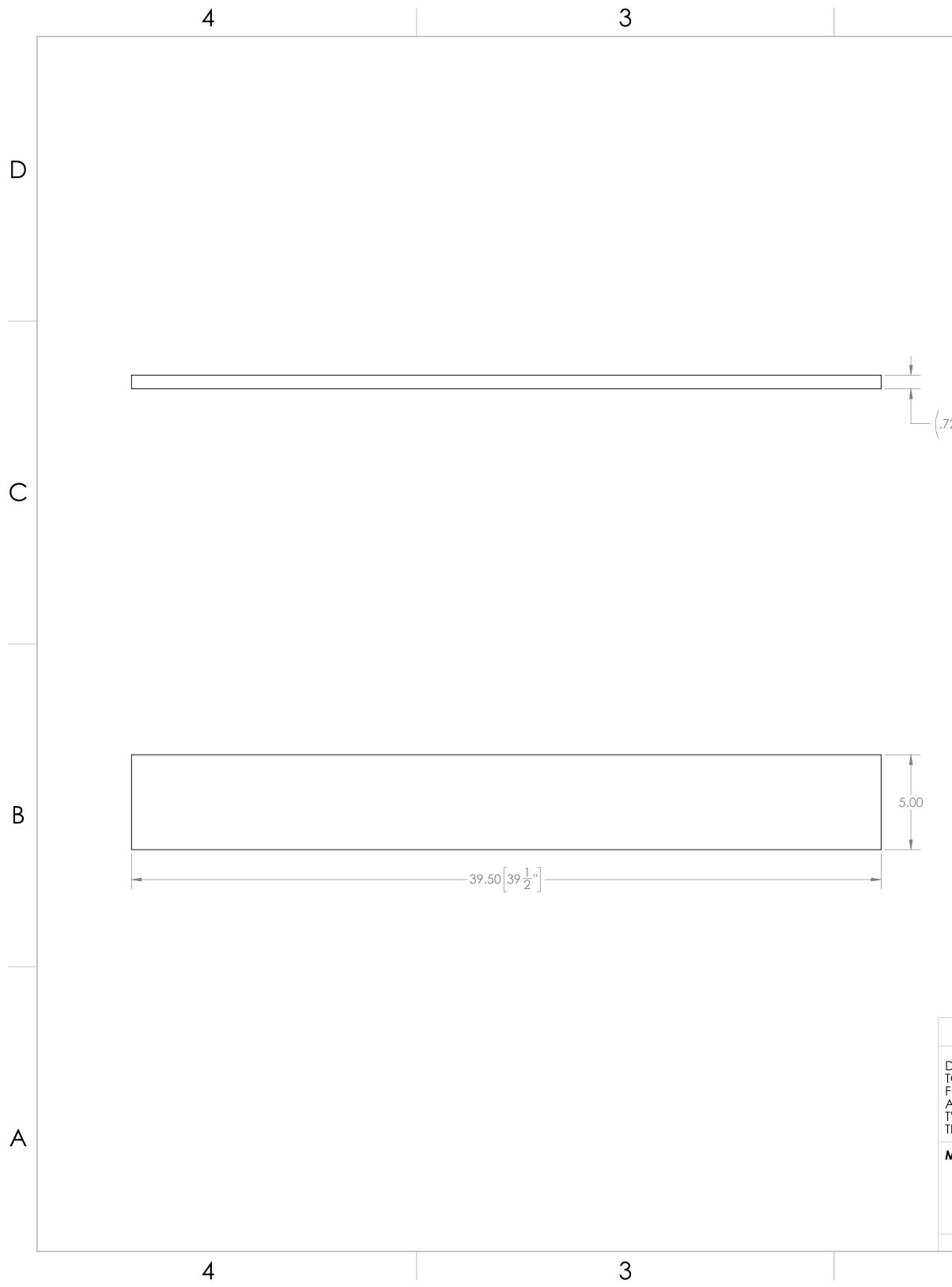
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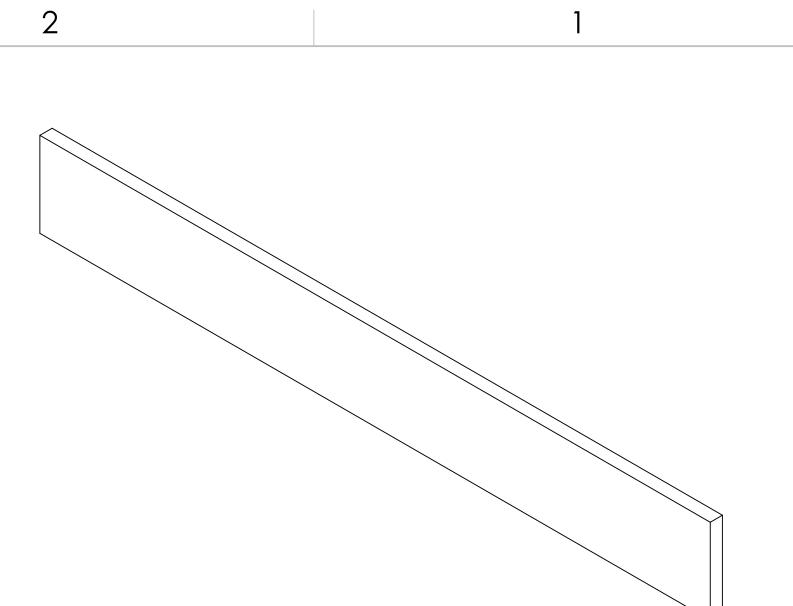


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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND±1° TWO PLACE DECIMAL±.13 THREE PLACE DECIMAL±.125 MATERIAL/FINISH: 2"x4" Lumber DO NOT SCALE DRAWING	TEAMNAMEDRAWNKAMCPROPRIETARY AND CTHE INFORMATION CTHIS DRAWING IS THEPROPERTY OF FIRST®REPRODUCTION IN PWHOLE WITHOUT THEPERMISSION OF FIRSTPROHIBITED.COMMENTS:REMOVE ALL BURREDGE	CONTAINED IN E SOLE D. ANY PART OR AS A E WRITTEN T® IS	SIZE DWG. NO.	CSSON Solutions Partner Apple Build - Jb Base 2x4 REV 22041 SHEET 1 OF 1	A



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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND±1° TWO PLACE DECIMAL±.13 THREE PLACE DECIMAL±.125	THE INFC THIS DRA PROPER	NAME KAMC TARY AND CON ORMATION CON WING IS THE SC IY OF FIRST® . A	TAINED IN DLE NY	TITLE: Hu Up	b - Sir	nple l	Build se 4x	ns Partner	A
MATERIAL/FINISH: 4"x4" Lumber DO NOT SCALE DRAWING	WHOLE PERMISSI PROHIBIT		RITTEN S	size dwg. no. C TE-22042			2 Eet 1 C	REV	
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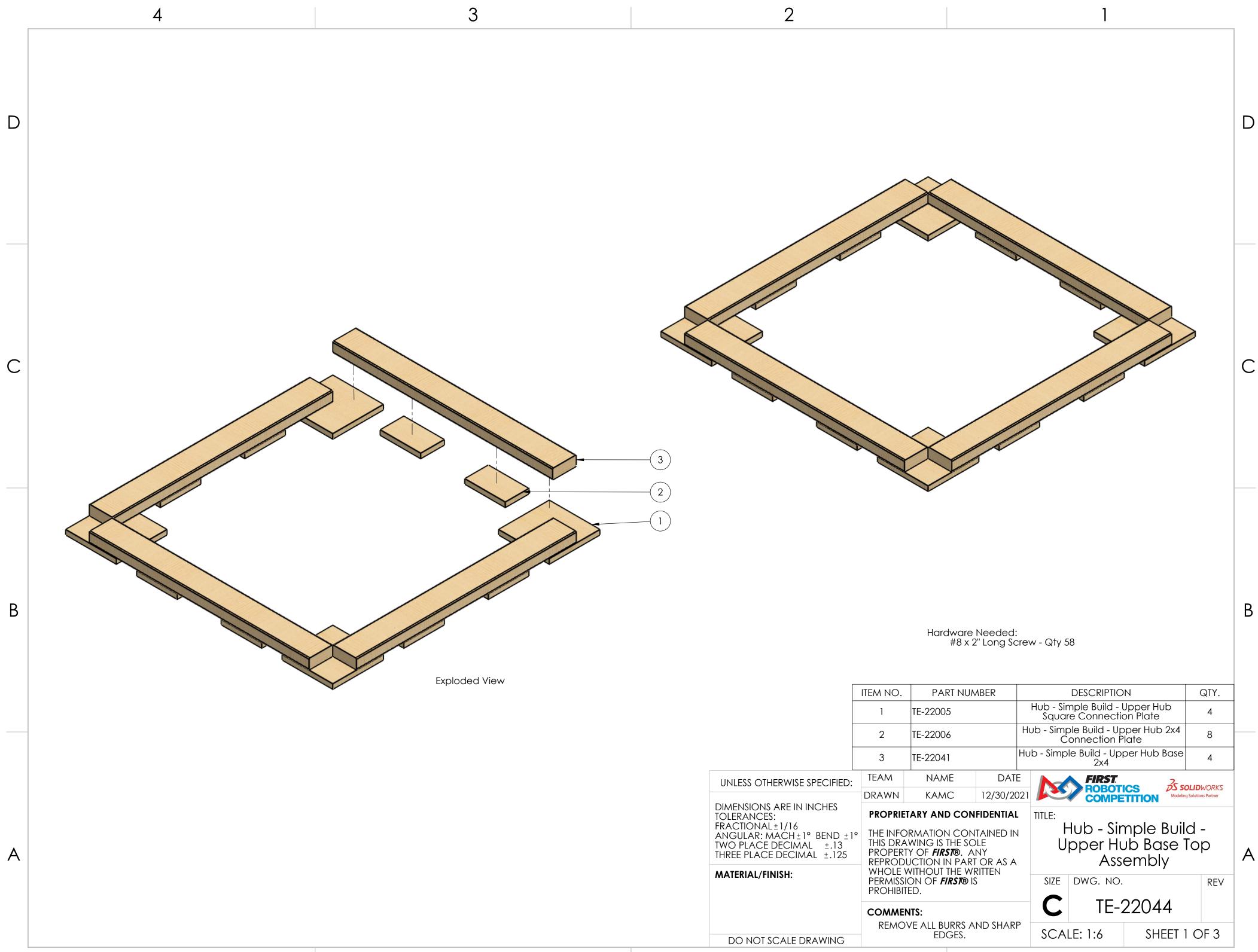


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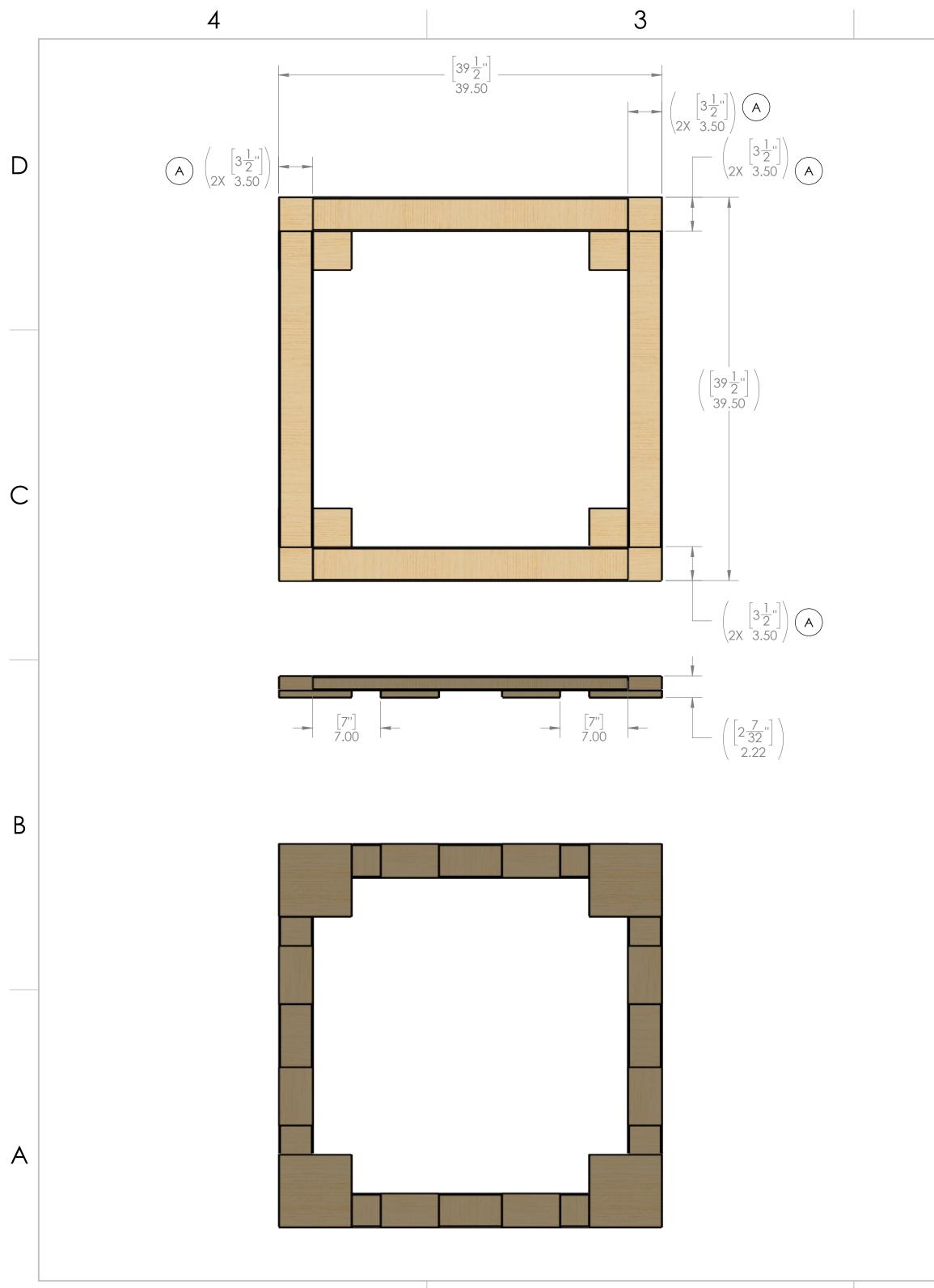
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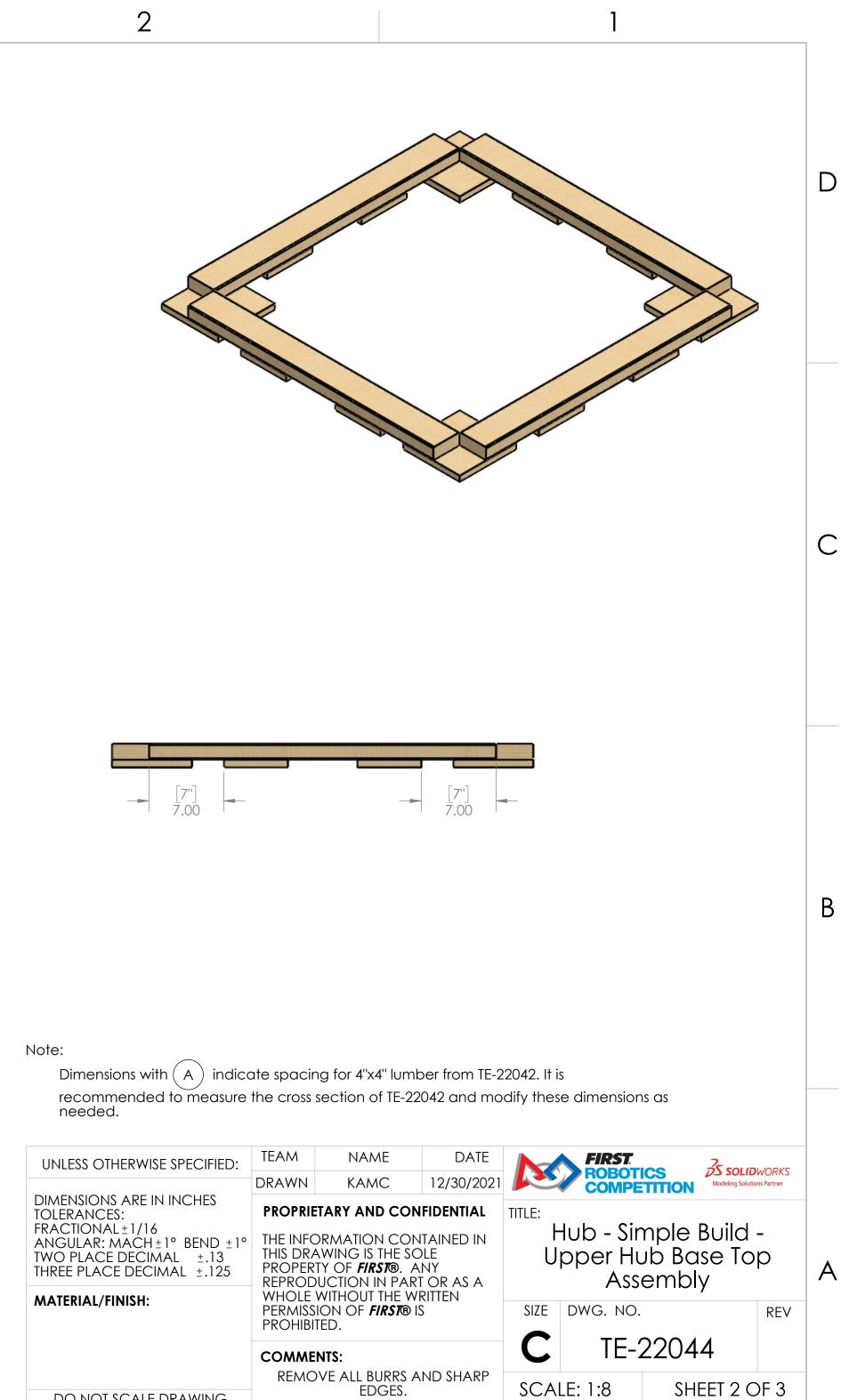
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UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE		FIRST		25 50117		
	DRAWN		12/29/2021	ROBOTICS COMPETITION					
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	THE INFO THIS DR/ PROPER REPROD	ETARY AND CON DRMATION CON AWING IS THE SC TY OF <i>FIRST</i> ®. A DUCTION IN PART	TITLE: Hub - Simple Build - Upper Hub Base Rectangle Connetion Plate					A	
MATERIAL/FINISH: 3/4" Plywood	PERMISS	WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED.			DWG. NO.			REV	-
	COMME				C TE-220		.3		
DO NOT SCALE DRAWING	REMC	OVE ALL BURRS A EDGES.	ND SHARP	SCALE: 1:4		Sheet 1 O)F 1	
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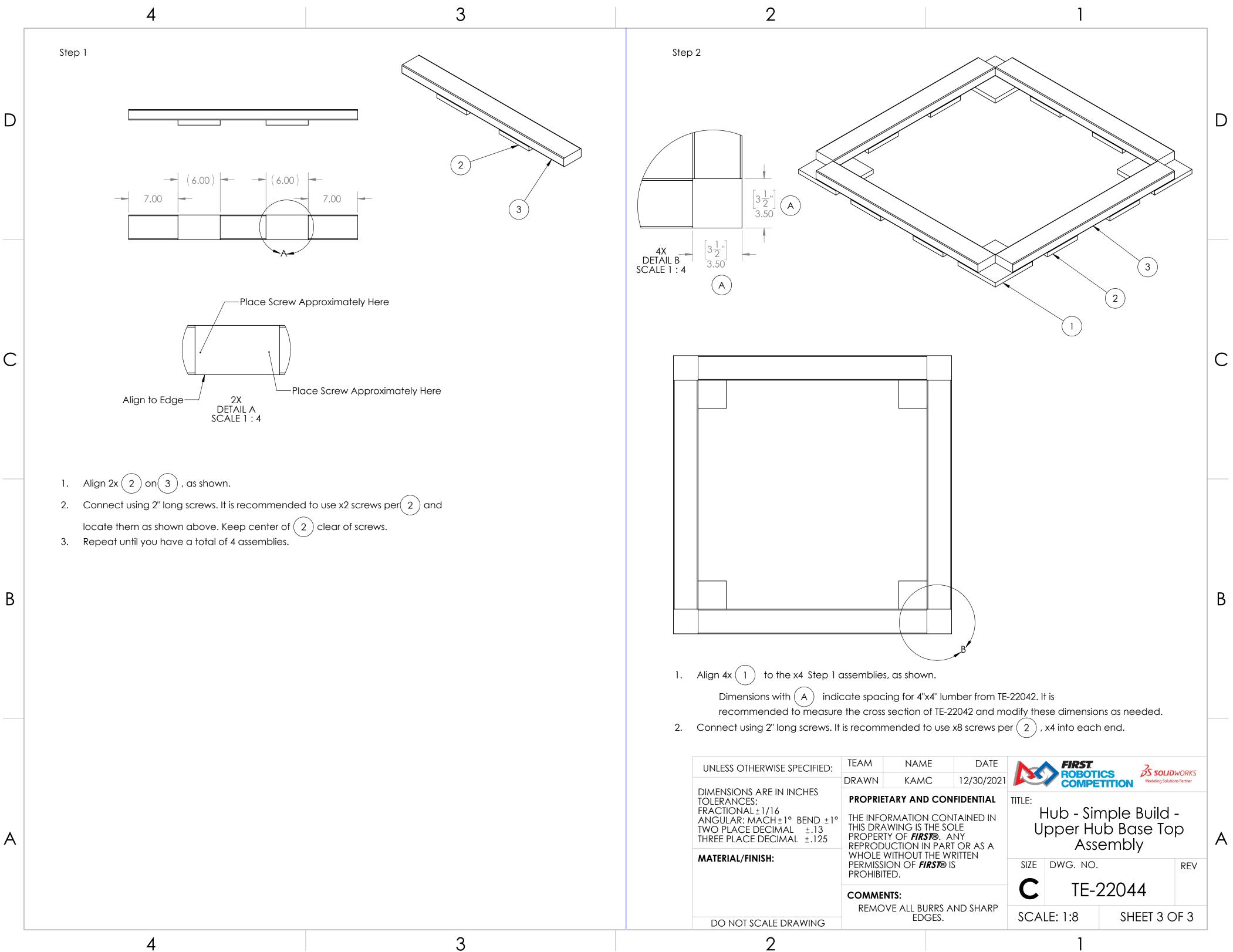


	ITEM NO.	TE-22003			DESCRIPTION			
	1			Hub - Simple Build - Upper Hub Square Connection Plate			4	
	2				Hub - Simple Build - Upper Hub 2x4 Connection Plate]
	3			Hub - Simp	ub - Simple Build - Upper Hub Base 2x4]
UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DAT	E	FIRST.			1
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MATERIAL/FINISH:		on of Firs		SIZE	DWG. NO.		REV	-
	COMME	NTS:			TE-22044			
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DO NOT SCALE DRAWING								
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