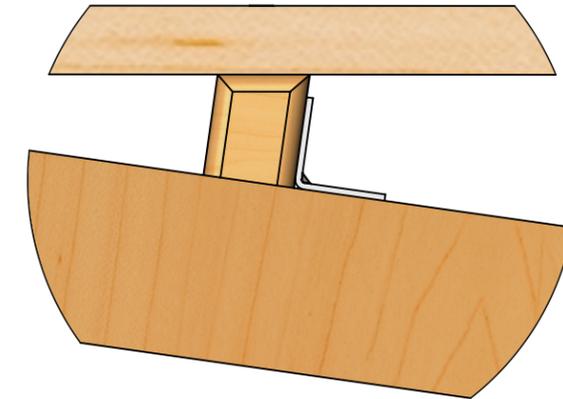
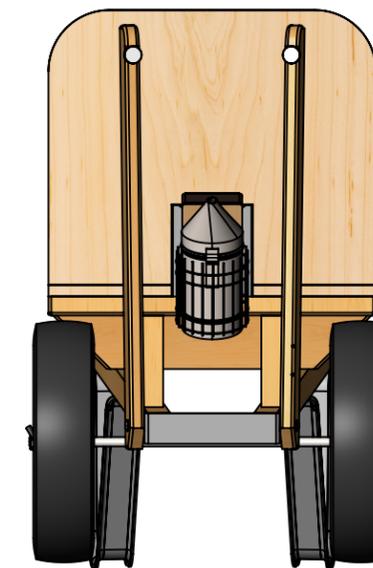
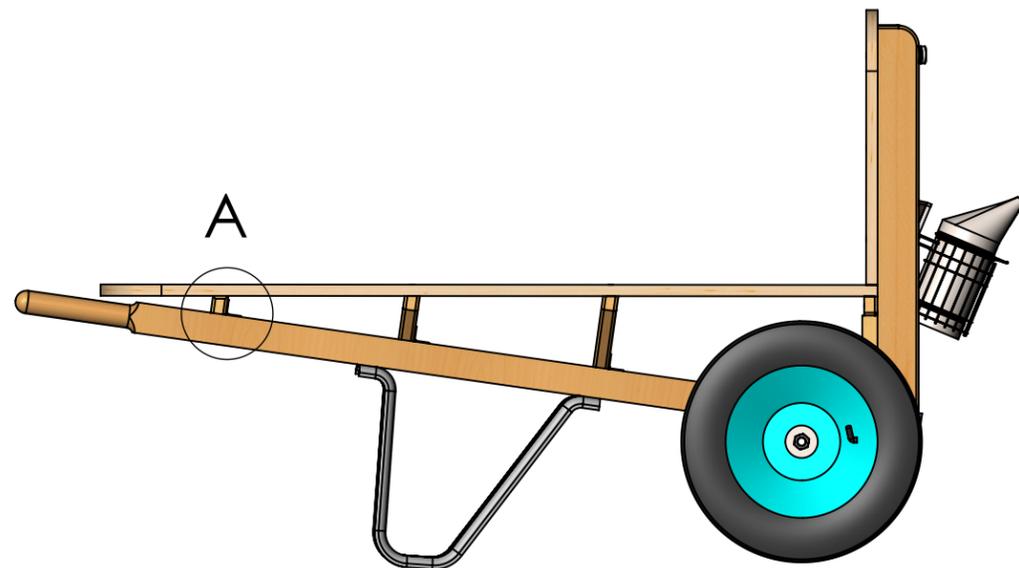


10016_2	01	FLATBED WHEELBARROW
PART NUMBER	REV	DESCRIPTION

<b>UNLESS OTHERWISE SPECIFIED</b> DO NOT SCALE DRAWING INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994 DIMENSIONS ARE IN INCHES TOLERANCES APPLY AS SHOWN BELOW 0 PL DEC ± 0.03 1 PL DEC ± 0.02 2 PL DEC ± 0.01 3 PL DEC ± 0.005 ANGLES ± .1° SURFACE ROUGHNESS 63 µ in		SolidWorks MAINTAINED DATA CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN ACTIVITY  <b>PROPRIETARY</b> NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF YOUR COMPANY  CUSTOMER BEE KEEPERS  PROJECT HIVE PRODUCTS		 THE MIDDLE OF NOWHERE  TITLE <b>FLATBED WHEELBARROW</b>	
THIRD ANGLE PROJECTION 		DRAWN BY F. FULKERSON  CHECKED BY P.G. KELLY  APPROVED P.G. KELLY	DATE 2022-03-23  DATE 2022-03-23  DATE 2022-03-23	SIZE <b>B</b>  SCALE 1:8	DRAWING NO.  WEIGHT 86.034 lbs  SHEET 1 OF 13
			REVISION <b>10016_2 -</b>		



**DETAIL A**  
**SCALE 1 : 2**



10016_2	01	FLATBED WHEELBARROW
PART NUMBER	REV	DESCRIPTION

**UNLESS OTHERWISE SPECIFIED**  
DO NOT SCALE DRAWING  
INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994  
DIMENSIONS ARE IN INCHES  
TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	± 0.03
1 PL DEC	± 0.02
2 PL DEC	± 0.01
3 PL DEC	± 0.005
ANGLES	± .1°
SURFACE ROUGHNESS	63 µ in

**THIRD ANGLE PROJECTION**

SolidWorks MAINTAINED DATA  
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ELECTRONICALLY BY THE DESIGN ACTIVITY

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YOUR COMPANY

CUSTOMER  
BEE KEEPERS

PROJECT  
HIVE PRODUCTS

DRAWN BY  
F. FULKERSON

CHECKED BY  
P.G. KELLY

APPROVED  
P.G. KELLY

DATE  
2022-03-23

DATE  
2022-03-23

DATE  
2022-03-23

 THE MIDDLE OF NOWHERE

TITLE  
**FLATBED WHEELBARROW**

SIZE  
**B**

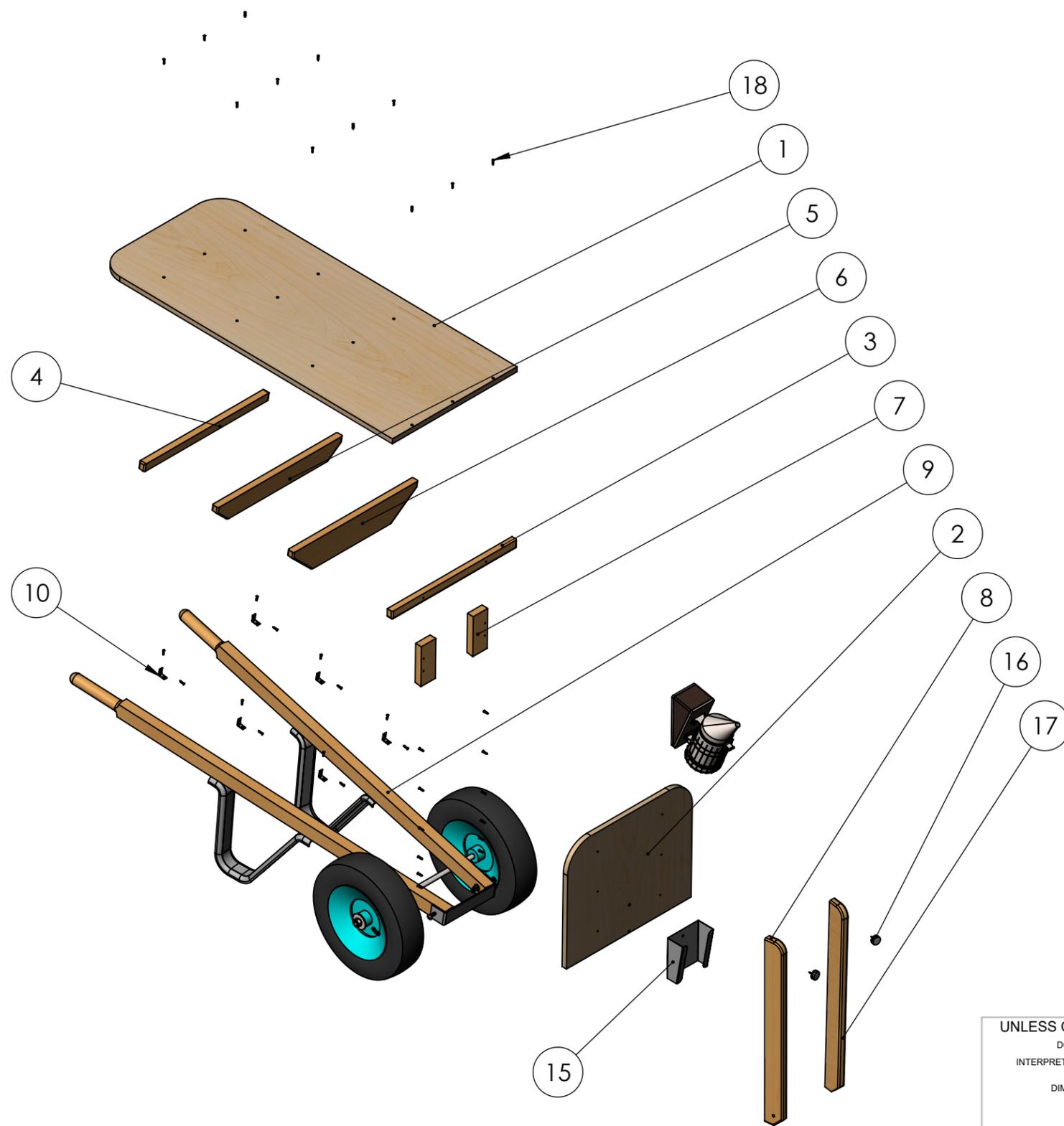
DRAWING NO  
**10016\_2**

SCALE  
1:12

WEIGHT  
86.034 lbs

REVISION  
**-**

SHEET 2 OF 13



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	1054	BASE BOARD	1
2	1053	END BOARD	1
3	1055	END BOARD SUPPORT	1
4	1050	BACK SUPPORT	1
5	1051	MIDDLE SUPPORT	1
6	1052	FRONT SUPPORT	1
7	1049	FRONT SPACER	2
8	1047	FRONT SUPPORT POST - LEFT	1
9	Wheelbarrow Frame	PURCHASED WHEELBARROW	1
10	1556A61	Zinc-Plated Steel Corner Bracket	6
15	1057	SMOKER HOLDER	1
16	2513T52	Hammer-on Feet	2
17	Mirror1047	FRONT SUPPORT POST - RIGHT	1
18	90610A151	Square-Drive Flat Head Screws for Wood	38

10016_2	01	FLATBED WHEELBARROW
PART NUMBER	REV	DESCRIPTION

UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING  
INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5-2018  
DIMENSIONS ARE IN INCHES

THIRD ANGLE PROJECTION



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ELECTRONICALLY BY THE DESIGN ACTIVITY

PROPRIETARY  
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CUSTOMER  
BEE KEEPERS  
PROJECT  
HIVE PRODUCTS

DRAWN BY F. FULKERSON	DATE 2022-03-23
CHECKED BY P.G. KELLY	DATE 2022-03-23
APPROVED P.G. KELLY	DATE 2022-03-23

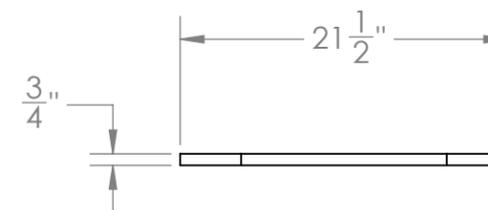


HONEY BEE RESEARCH CENTRE  
THE UNIVERSITY OF GUELPH

TITLE  
**FLATBED WHEELBARROW**

SIZE <b>B</b>	DRAWING NO.	REVISION <b>10016_2 -</b>
SCALE 1:16	WEIGHT 86.034 lbs	SHEET 3 OF 13

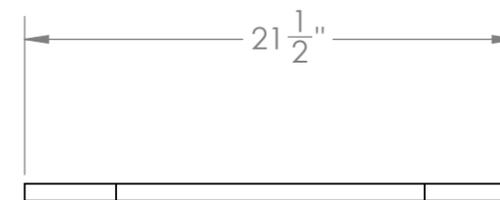
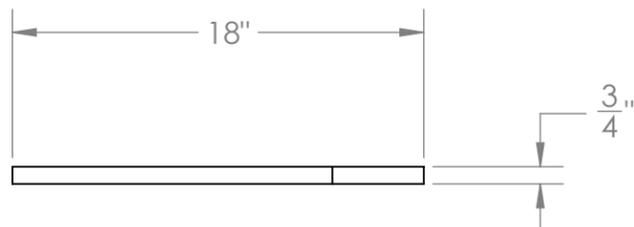
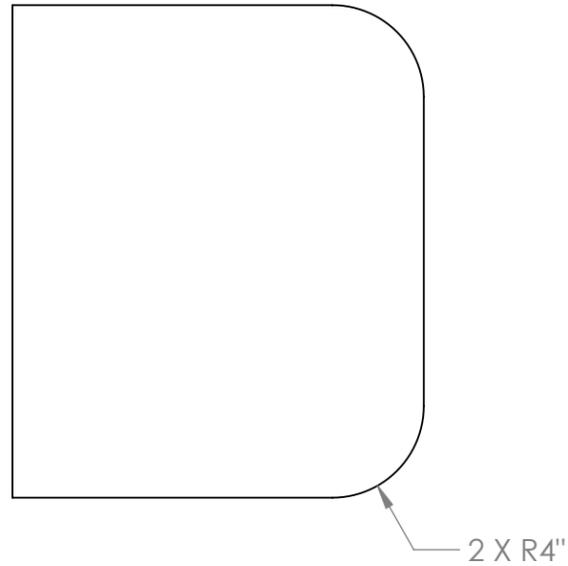
- NOTES:  
 1. MATERIAL: Plywood  
 2. FINISH: STAIN  
 3. REMOVE ALL SHARP EDGES



1054_2	-	BASE BOARD
PART NUMBER	REV	DESCRIPTION

UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5-2018 DIMENSIONS ARE IN INCHES		SolidWorks MAINTAINED DATA CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN ACTIVITY <b>PROPRIETARY</b> NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT WRITTEN PERMISSION.		 <b>HONEY BEE RESEARCH CENTRE          THE UNIVERSITY OF GUELPH</b>	
THIRD ANGLE PROJECTION 		CUSTOMER BEE KEEPERS PROJECT HIVE PRODUCTS		<b>BASE BOARD</b>	
DRAWN BY F. FULKERSON CHECKED BY P.G. KELLY APPROVED P.G. KELLY		DATE 2022-03-23 DATE 2022-03-23 DATE 2022-03-23		TITLE <b>10016_2</b>	
		SCALE 1:12		WEIGHT 10.038 lbs	
				SHEET 4 OF 13	

- NOTES:  
 1. MATERIAL: Plywood  
 2. FINISH: STAIN  
 3. REMOVE ALL SHARP EDGES

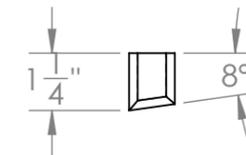
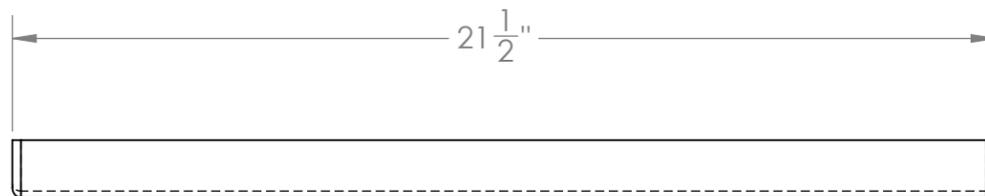
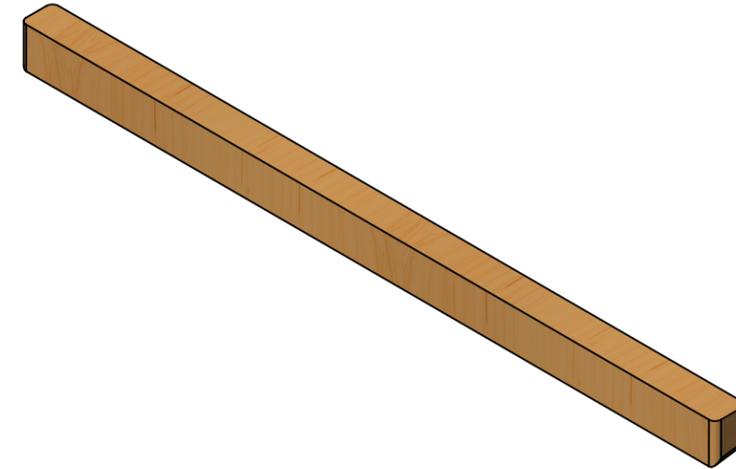
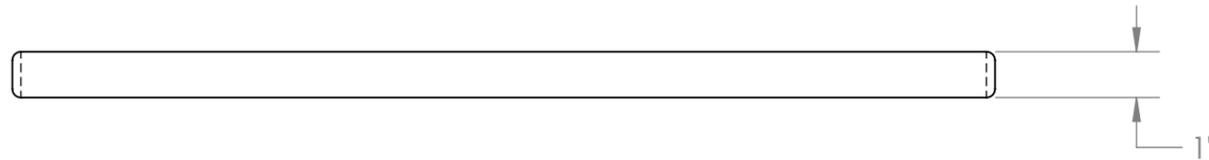


1053_2	-	END BOARD
PART NUMBER	REV	DESCRIPTION

UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5-2018 DIMENSIONS ARE IN INCHES	SolidWorks MAINTAINED DATA CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN ACTIVITY	 HONEY BEE RESEARCH CENTRE THE UNIVERSITY OF GUELPH	TITLE <h1>END BOARD</h1>		
	<b>PROPRIETARY</b> NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT WRITTEN PERMISSION.		CUSTOMER BEE KEEPERS	SIZE <b>B</b>	DRAWING NO <b>10016_2</b>
THIRD ANGLE PROJECTION 	DRAWN BY F. FULKERSON	DATE 2022-03-23	SCALE 1:8	WEIGHT 3.502 lbs	SHEET 5 OF 13
	CHECKED BY P.G. KELLY	DATE 2022-03-23			
	APPROVED P.G. KELLY	DATE 2022-03-23			

NOTES:

1. MATERIAL: HARDWOOD.
2. ALL ROUNDS AND FILLETS 3/16 UOS.
3. FINISH: STAIN.
4. REMOVE ALL SHARP EDGES.



1050_2	-	BACK SUPPORT
PART NUMBER	REV	DESCRIPTION

UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING  
INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5-2018  
DIMENSIONS ARE IN INCHES

THIRD ANGLE PROJECTION



SolidWorks MAINTAINED DATA  
CHANGES SHALL BE INCORPORATED  
ELECTRONICALLY BY THE DESIGN ACTIVITY

PROPRIETARY

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CUSTOMER  
BEE KEEPERS

PROJECT  
HIVE PRODUCTS

DRAWN BY  
F. FULKERSON

DATE  
2022-03-23

CHECKED BY  
P.G. KELLY

DATE  
2022-03-23

APPROVED  
P.G. KELLY

DATE  
2022-03-23



HONEY BEE RESEARCH CENTRE  
THE UNIVERSITY OF GUELPH

BACK SUPPORT

TITLE

SIZE  
B

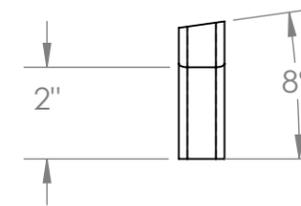
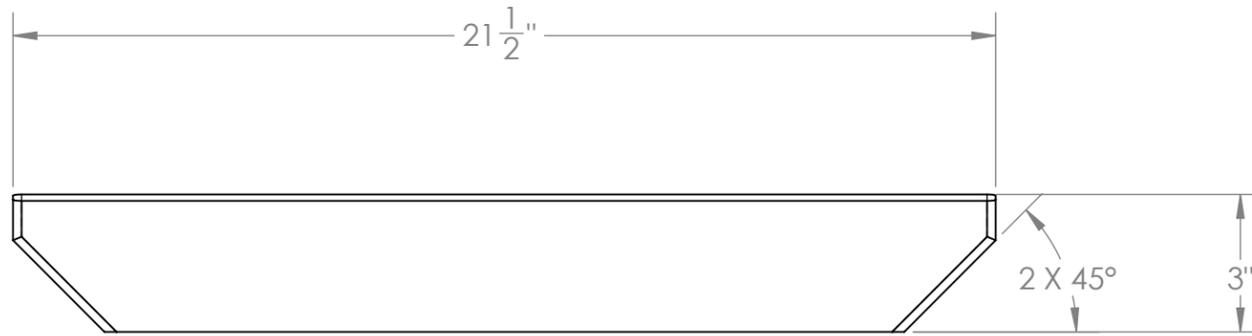
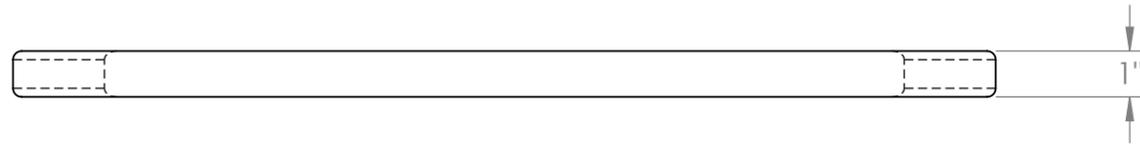
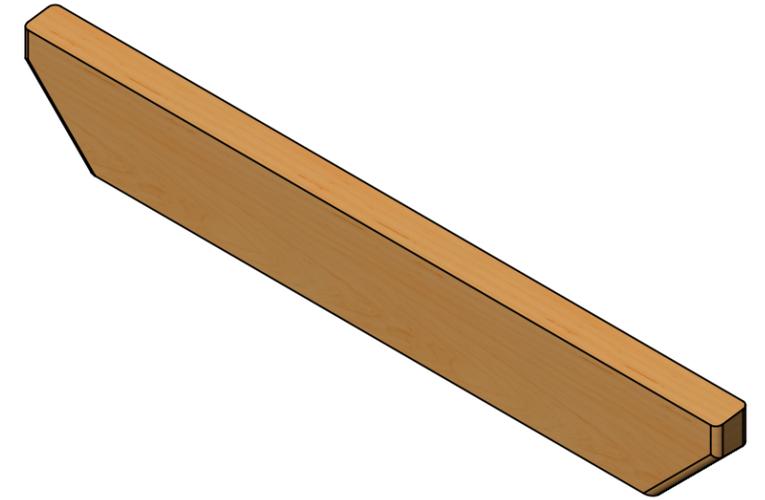
SCALE  
1:4

WEIGHT  
0.448 lbs

10016\_2 -

SHEET 6 OF 13

- NOTES:  
 1. MATERIAL: HARDWOOD.  
 2. ALL ROUNDS AND FILLETS 3/16 UOS.  
 3. FINISH: STAIN.  
 4. REMOVE ALL SHARP EDGES.



1051_2	-	MIDDLE SUPPORT
PART NUMBER	REV	DESCRIPTION

UNLESS OTHERWISE SPECIFIED  
 DO NOT SCALE DRAWING  
 INTERPRET DIMENSIONS AND TOLERANCES  
 PER ASME Y14.5-2018  
 DIMENSIONS ARE IN INCHES

THIRD ANGLE PROJECTION



SolidWorks MAINTAINED DATA  
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 ELECTRONICALLY BY THE DESIGN ACTIVITY

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 ANY FORM, WITHOUT WRITTEN PERMISSION.

CUSTOMER  
 BEE KEEPERS  
 PROJECT  
 HIVE PRODUCTS

DRAWN BY F. FULKERSON	DATE 2022-03-23
CHECKED BY P.G. KELLY	DATE 2022-03-23
APPROVED P.G. KELLY	DATE 2022-03-23

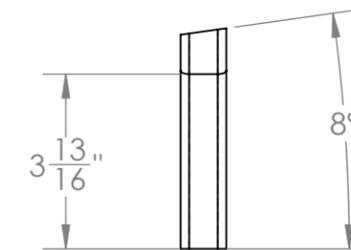
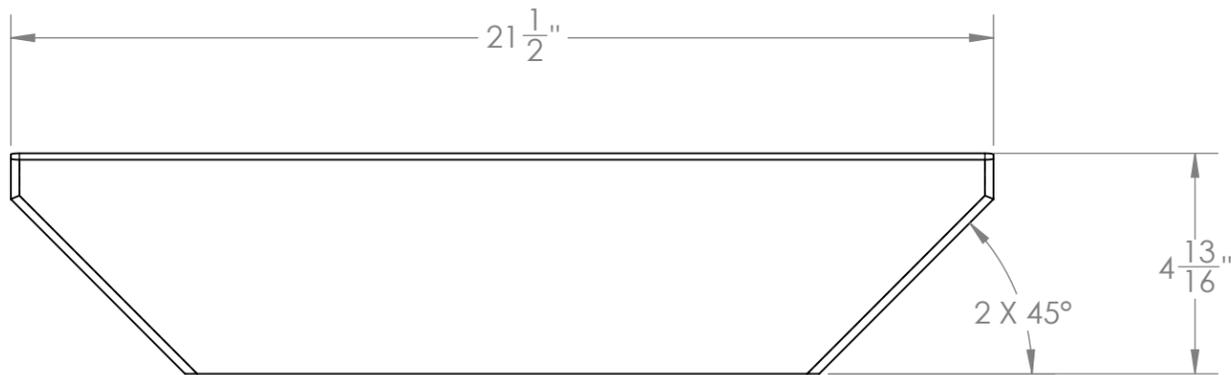
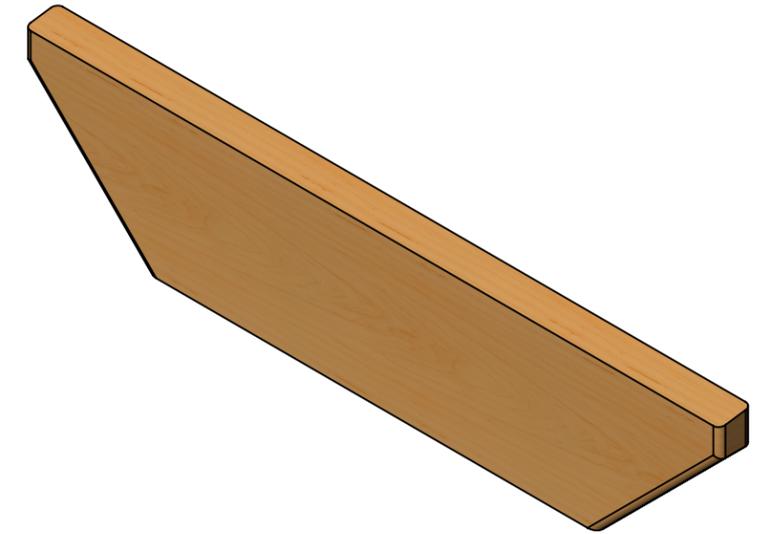
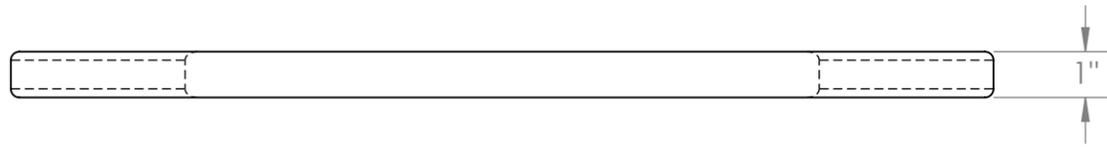


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**MIDDLE SUPPORT**

SIZE <b>B</b>	DRAWING NO.	REVISION <b>10016_2 -</b>
SCALE 1:4	WEIGHT 1.042 lbs	SHEET 7 OF 13

- NOTES:  
 1. MATERIAL: HARDWOOD  
 2. ALL ROUNDS AND FILLETS 3/16 UOS.  
 3. FINISH: STAIN  
 4. REMOVE ALL SHARP EDGES

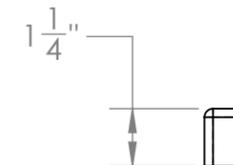
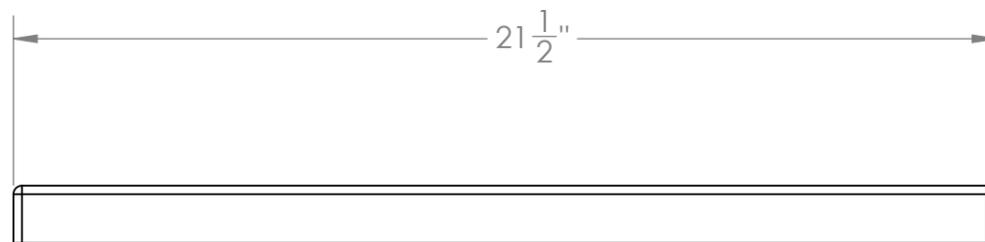
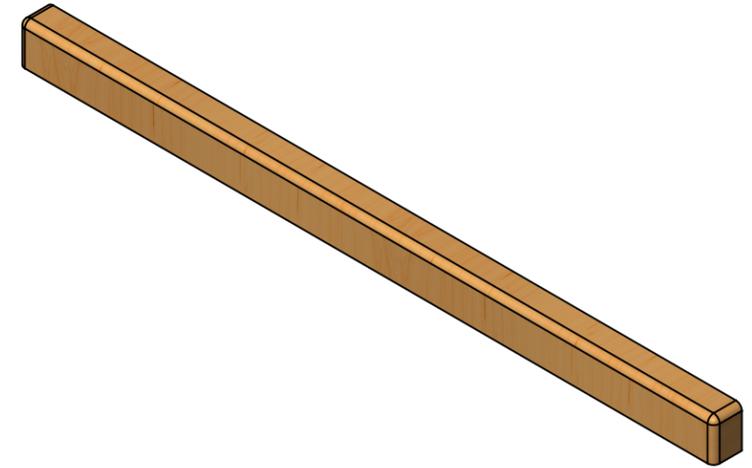


1052_2	-	FRONT SUPPORT
PART NUMBER	REV	DESCRIPTION

UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5-2018 DIMENSIONS ARE IN INCHES		SolidWorks MAINTAINED DATA CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN ACTIVITY <b>PROPRIETARY</b> NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT WRITTEN PERMISSION.		 <b>HONEY BEE RESEARCH CENTRE          THE UNIVERSITY OF GUELPH</b>	
THIRD ANGLE PROJECTION 		CUSTOMER BEE KEEPERS PROJECT HIVE PRODUCTS		<b>FRONT SUPPORT</b>	
DRAWN BY F. FULKERSON CHECKED BY P.G. KELLY APPROVED P.G. KELLY		DATE 2022-03-23 DATE 2022-03-23 DATE 2022-03-23		TITLE <b>10016_2</b>	
		SCALE 1:4		WEIGHT 1.544 lbs	
				SHEET 8 OF 13	

NOTES:

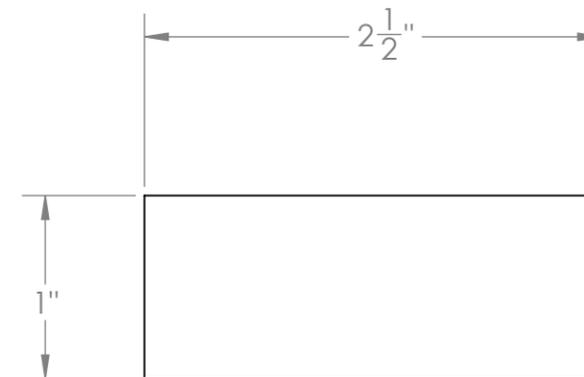
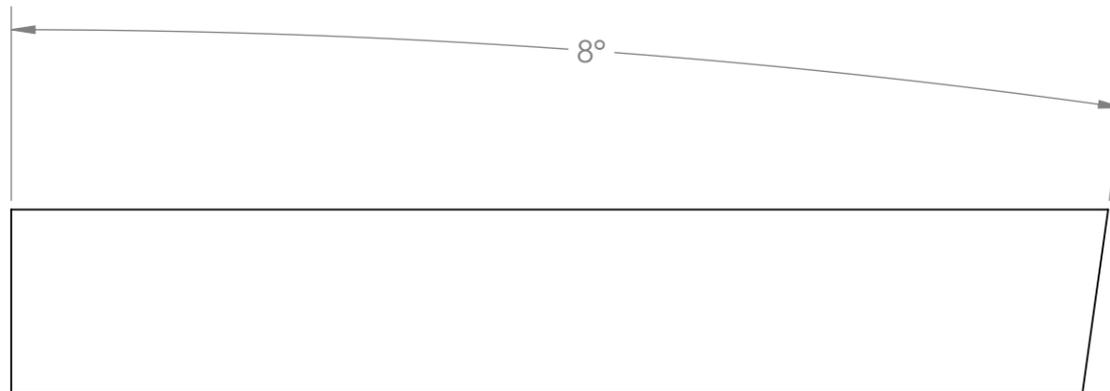
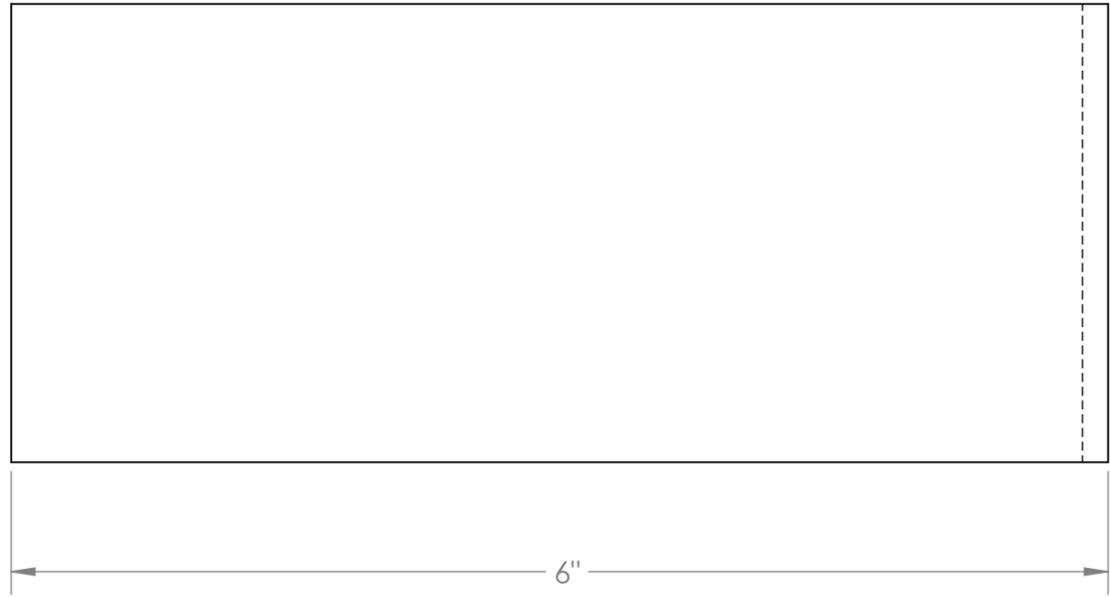
1. MATERIAL: HARDWOOD
2. ALL ROUNDS AND FILLETS 3/16 UOS.
3. FINISH: STAIN
4. REMOVE ALL SHARP EDGES



1055_2	-	END BOARD SUPPORT
PART NUMBER	REV	DESCRIPTION

<p>UNLESS OTHERWISE SPECIFIED</p> <p>DO NOT SCALE DRAWING</p> <p>INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5-2018</p> <p>DIMENSIONS ARE IN INCHES</p>		<p>SolidWorks MAINTAINED DATA CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN ACTIVITY</p> <p><b>PROPRIETARY</b></p> <p>NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT WRITTEN PERMISSION.</p>		 <p>HONEY BEE RESEARCH CENTRE THE UNIVERSITY OF GUELPH</p>	
<p>THIRD ANGLE PROJECTION</p> 		<p>CUSTOMER BEE KEEPERS</p> <p>PROJECT HIVE PRODUCTS</p>		<p>TITLE <b>END BOARD SUPPORT</b></p>	
<p>DRAWN BY F. FULKERSON</p> <p>CHECKED BY P.G. KELLY</p> <p>APPROVED P.G. KELLY</p>		<p>DATE 2022-03-23</p> <p>DATE 2022-03-23</p> <p>DATE 2022-03-23</p>		<p>SIZE <b>B</b></p> <p>SCALE 1:4</p>	
		<p>WEIGHT 0.413 lbs</p>		<p>REVISION <b>10016_2 -</b></p> <p>SHEET 9 OF 13</p>	

- NOTES:  
 1. MATERIAL: HARDWOOD  
 2. 2 PCS REQ'D  
 3. FINISH: STAIN  
 4. REMOVE ALL SHARP EDGES



1049_2	-	FRONT SPACER
PART NUMBER	REV	DESCRIPTION

UNLESS OTHERWISE SPECIFIED  
 DO NOT SCALE DRAWING  
 INTERPRET DIMENSIONS AND TOLERANCES  
 PER ASME Y14.5-2018  
 DIMENSIONS ARE IN INCHES

THIRD ANGLE PROJECTION



SolidWorks MAINTAINED DATA  
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 ELECTRONICALLY BY THE DESIGN ACTIVITY

**PROPRIETARY**  
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 ANY FORM, WITHOUT WRITTEN PERMISSION.

CUSTOMER  
 BEE KEEPERS  
 PROJECT  
 HIVE PRODUCTS

DRAWN BY F. FULKERSON	DATE 2022-03-23
CHECKED BY P.G. KELLY	DATE 2022-03-23
APPROVED P.G. KELLY	DATE 2022-03-23

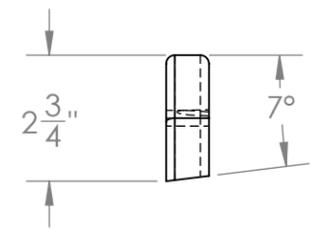
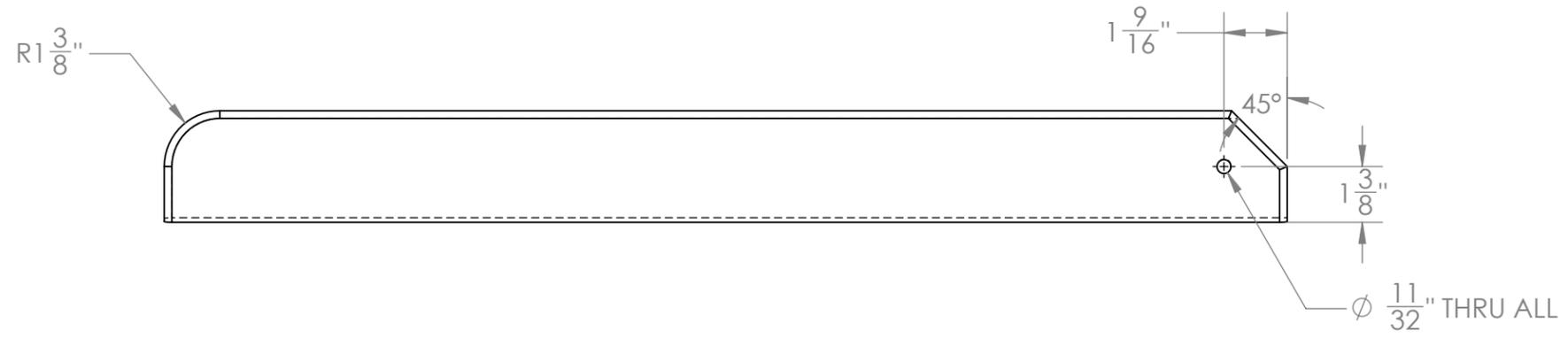
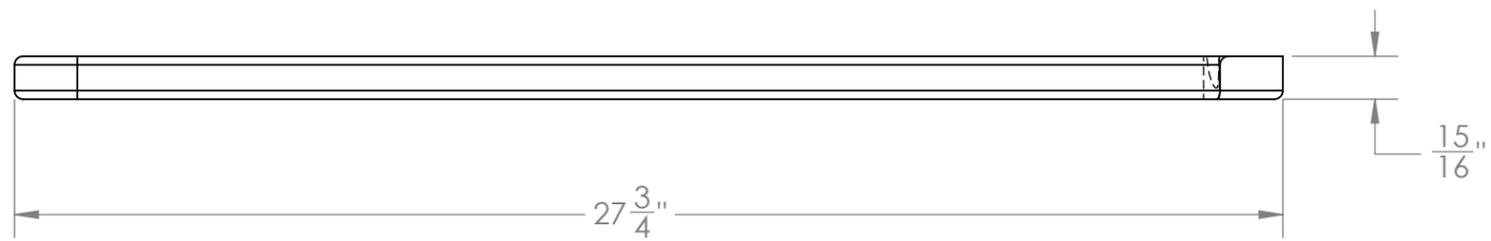
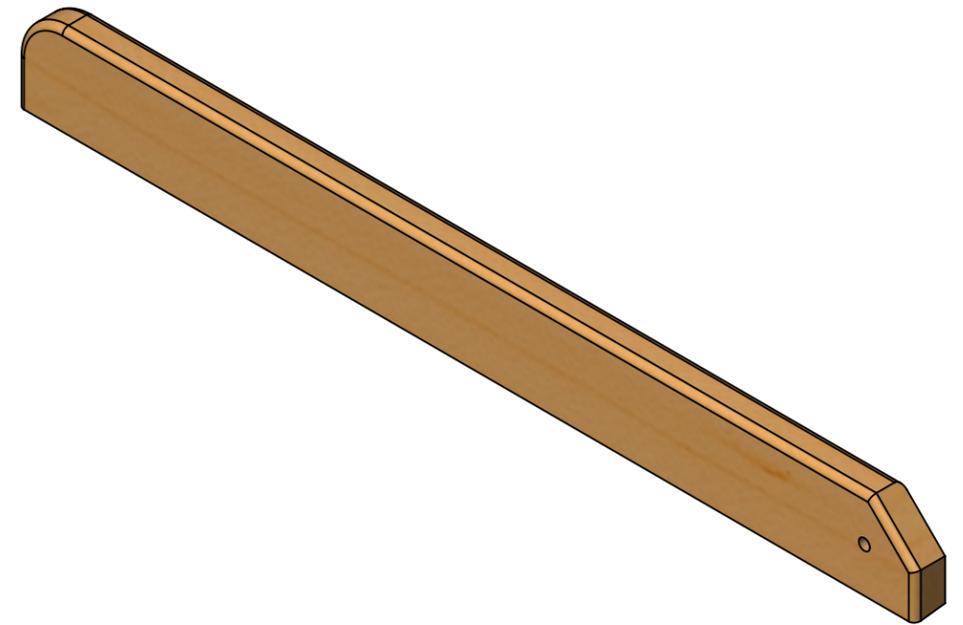


HONEY BEE RESEARCH CENTRE  
 THE UNIVERSITY OF GUELPH

**FRONT SPACER**

TITLE	SIZE	DRAWING NO	REVISION
	<b>B</b>		<b>10016_2 -</b>
SCALE	WEIGHT	SHEET	
1:1	0.262 lbs	10 OF 13	

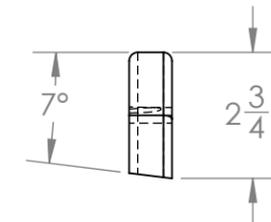
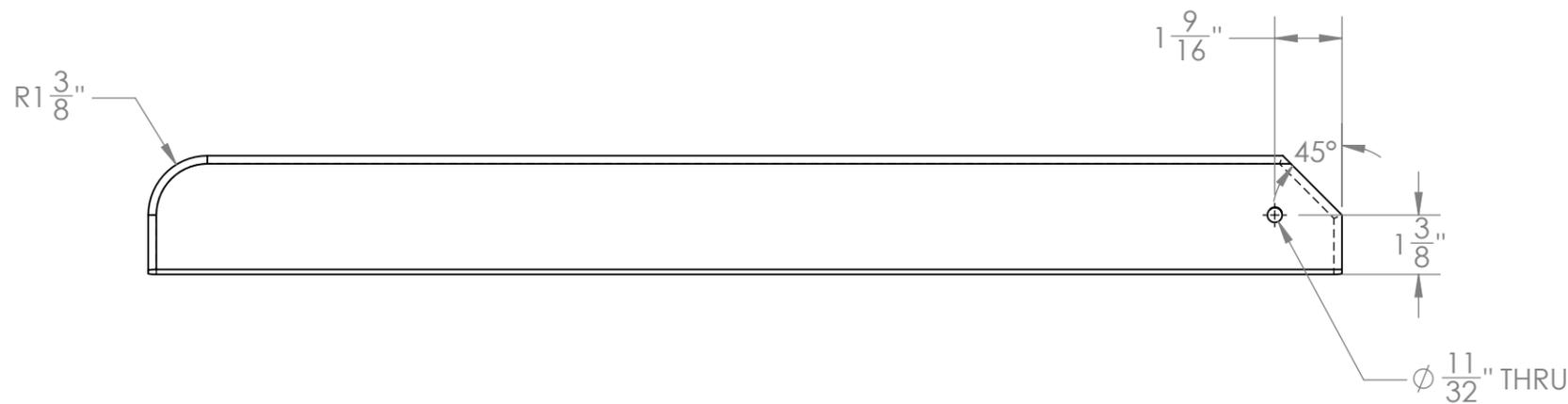
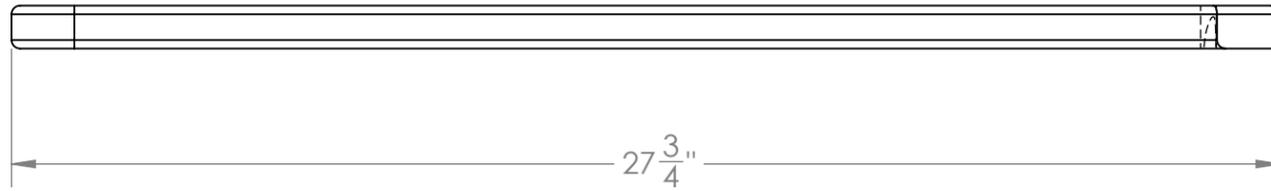
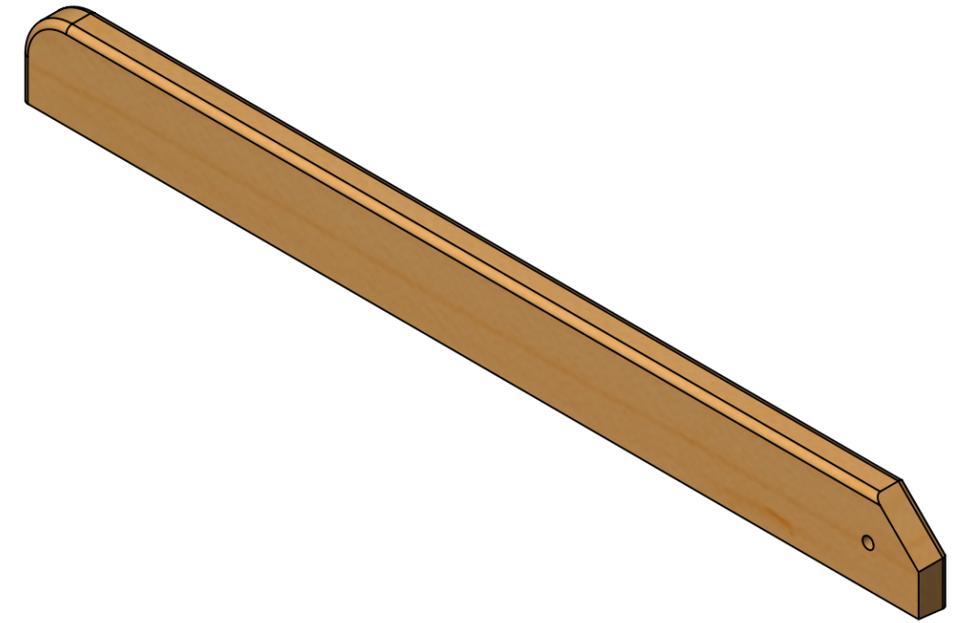
- NOTES:  
 1. MATERIAL: HARDWOOD  
 2. ALL ROUNDS AND FILLETS 3/16 UOS.  
 3. FINISH: NONE  
 4. REMOVE ALL SHARP EDGES



1047	01	FRONT SUPPORT POST - LEFT
PART NUMBER	REV	DESCRIPTION

UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5-2018 DIMENSIONS ARE IN INCHES		SolidWorks MAINTAINED DATA CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN ACTIVITY <b>PROPRIETARY</b> NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT WRITTEN PERMISSION.		 <b>HONEY BEE RESEARCH CENTRE          THE UNIVERSITY OF GUELPH</b>	
THIRD ANGLE PROJECTION 		CUSTOMER BEE KEEPERS PROJECT HIVE PRODUCTS		<b>FRONT SUPPORT POST - LEFT</b>	
DRAWN BY F. FULKERSON CHECKED BY P.G. KELLY APPROVED P.G. KELLY		DATE 2022-03-23 DATE 2022-03-23 DATE 2022-03-23		TITLE <b>10016_2</b>	
		SCALE 1:4		WEIGHT 1.208 lbs	
				SHEET 11 OF 13	

- NOTES:  
 1. MATERIAL: HARDWOOD  
 2. ALL ROUNDS AND FILLETS 3/16 UOS.  
 3. FINISH: NONE  
 4. REMOVE ALL SHARP EDGES

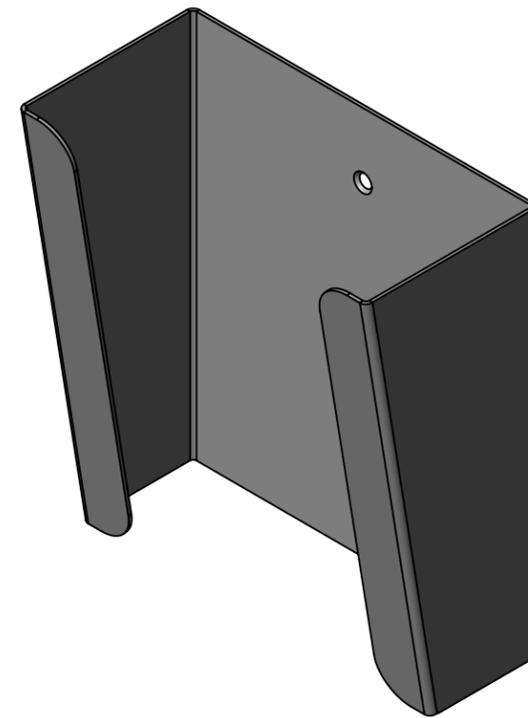
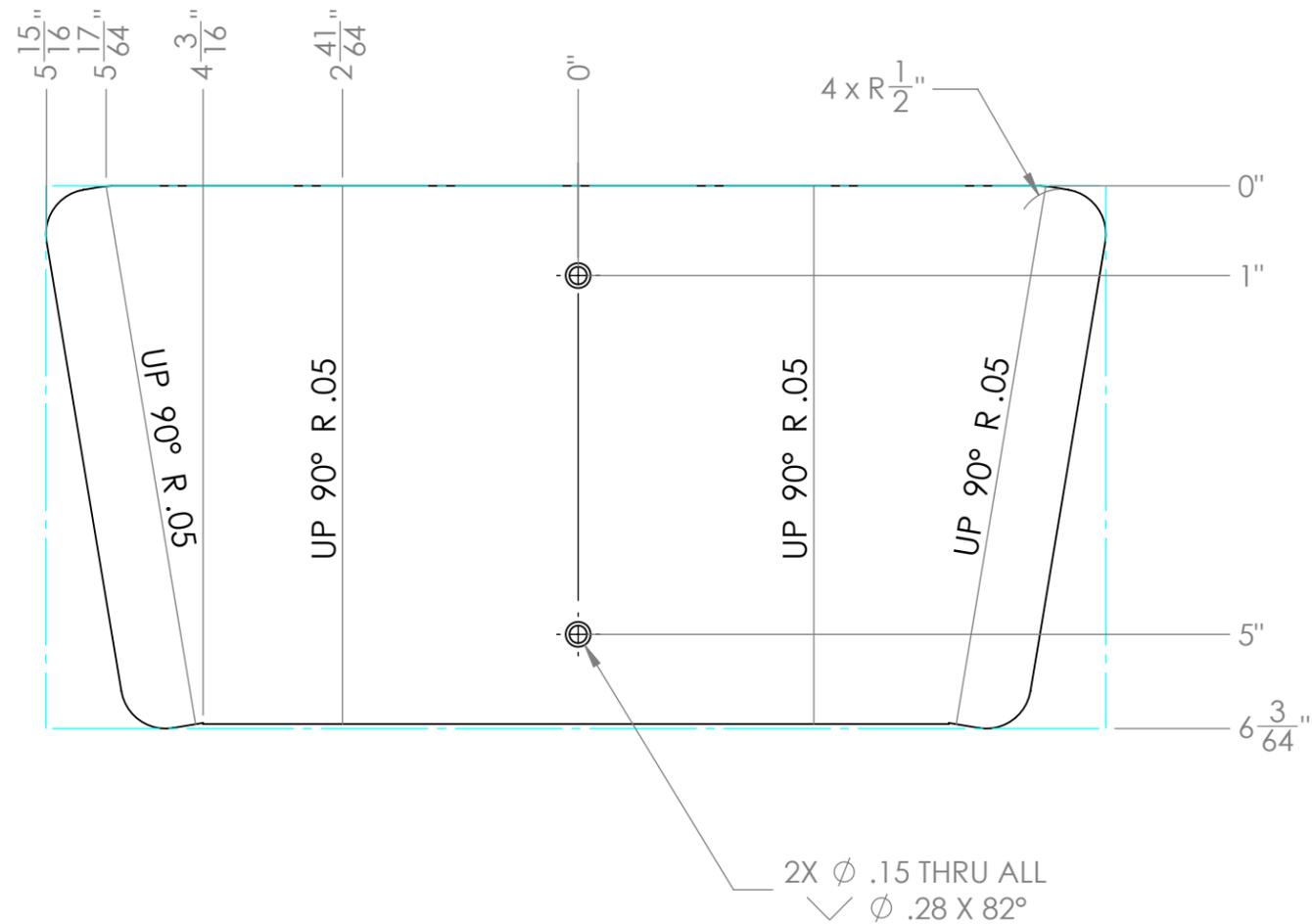


1048	-	FRONT SUPPORT POST - RIGHT
PART NUMBER	REV	DESCRIPTION

UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5-2018 DIMENSIONS ARE IN INCHES		SolidWorks MAINTAINED DATA CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN ACTIVITY <b>PROPRIETARY</b> NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT WRITTEN PERMISSION.		 <b>HONEY BEE RESEARCH CENTRE          THE UNIVERSITY OF GUELPH</b>	
THIRD ANGLE PROJECTION 		CUSTOMER BEE KEEPERS PROJECT HIVE PRODUCTS		<b>FRONT SUPPORT POST - RIGHT</b>	
DRAWN BY F. FULKERSON CHECKED BY P.G. KELLY APPROVED P.G. KELLY		DATE 2022-03-23 DATE 2022-03-23 DATE 2022-03-23		TITLE <b>10016_2</b>	
		SCALE 1:4		WEIGHT 1.208 lbs	
				SHEET 12 OF 13	

NOTES:

1. MATERIAL: Galvanized Steel
2. ANY GAUGE SHEET METAL CAN BE USED.
3. REMOVE ALL SHARP EDGES.



1057	-	SMOKER HOLDER
PART NUMBER	REV	DESCRIPTION

UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING  
INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5-2018  
DIMENSIONS ARE IN INCHES

THIRD ANGLE PROJECTION



SolidWorks MAINTAINED DATA  
CHANGES SHALL BE INCORPORATED  
ELECTRONICALLY BY THE DESIGN ACTIVITY

PROPRIETARY

NO PART OF THIS DOCUMENT MAY BE REPRODUCED,  
STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN  
ANY FORM, WITHOUT WRITTEN PERMISSION.

CUSTOMER  
BEE KEEPERS

PROJECT  
HIVE PRODUCTS

DRAWN BY  
F. FULKERSON

DATE  
2022-03-23

CHECKED BY  
P.G. KELLY

DATE  
2022-03-23

APPROVED  
P.G. KELLY

DATE  
2022-03-23



HONEY BEE RESEARCH CENTRE  
THE UNIVERSITY OF GUELPH

SMOKER HOLDER

SIZE DRAWING NO

B

SCALE 1:2

WEIGHT 0.896 lbs

10016\_2 -

SHEET 13 OF 13