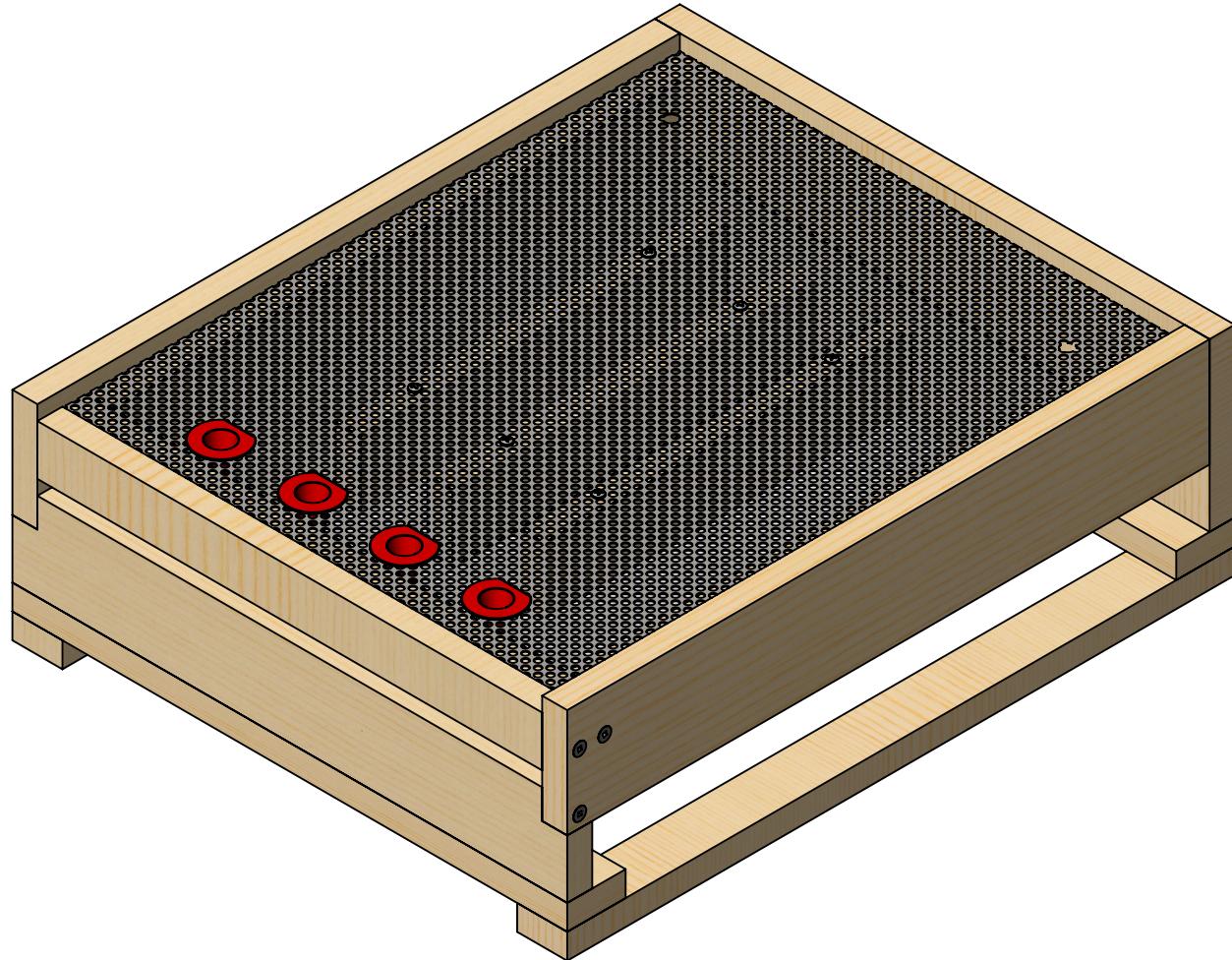
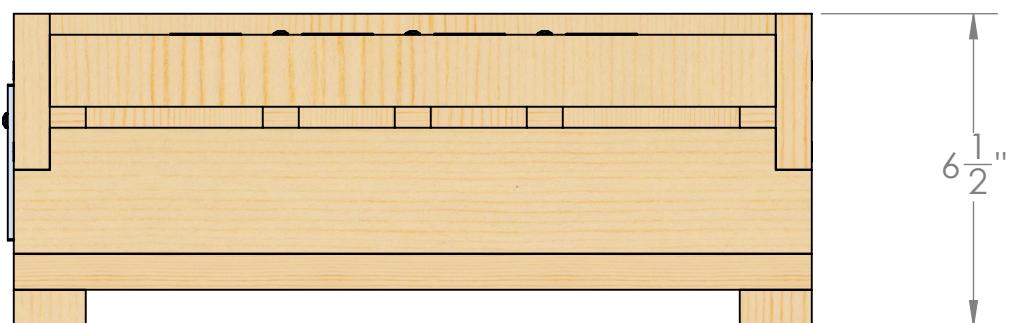


16 $\frac{5}{8}$ "



20"



|             |     |             |
|-------------|-----|-------------|
| 10019       | 01  | BOX         |
| PART NUMBER | REV | DESCRIPTION |

UNLESS OTHERWISE SPECIFIED  
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INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5-2018  
DIMENSIONS ARE IN INCHES

THIRD ANGLE PROJECTION  
 

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BEE KEEPERS  
PROJECT  
HIVE PRODUCTS

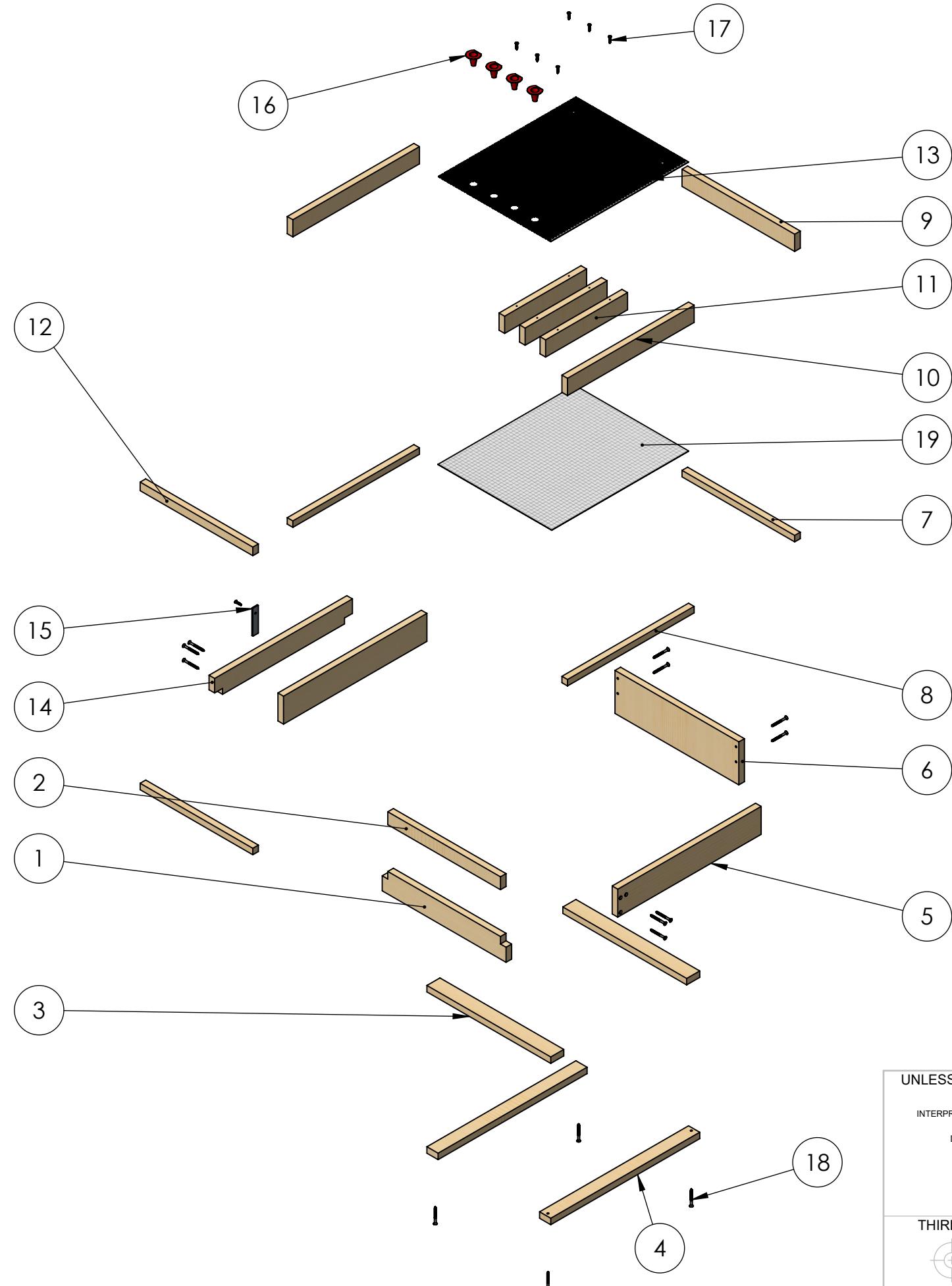
DRAWN BY  
F. FULKERSON DATE  
2022-03-23  
CHECKED BY  
P.G. KELLY DATE  
2022-03-23  
APPROVED  
P.G. KELLY DATE  
2022-03-23



HONEY BEE RESEARCH CENTRE  
THE UNIVERSITY OF GUELPH

BOX

SIZE DRAWING NO  
B 10017 2 -  
SCALE 1:4 WEIGHT 10.213 lbs SHEET 1 OF 20  
REVISION



| ITEM NO. | PART NUMBER | DESCRIPTION                              | QTY. |
|----------|-------------|--|------|
| 1        | 1074        | FRONT BOTTOM                             | 1    |
| 2        | 1073        | FRONT TOP                                | 1    |
| 3        | 1070        | DRAWER RUNNER                            | 2    |
| 4        | 1071        | LEG                                      | 2    |
| 5        | 1072        | SIDE                                     | 2    |
| 6        | 1069        | BACK                                     | 1    |
| 7        | 1075        | SHORT SCREEN SUPPORT                     | 2    |
| 8        | 1076        | LONG SCREEN SUPPORT                      | 2    |
| 9        | 1077        | SHORT STRIPPING SCREEN SUPPORT           | 1    |
| 10       | 1078        | LONG STRIPPING SCREEN SUPPORT            | 2    |
| 11       | 1079        | SUPPORT                                  | 3    |
| 12       | 1084        | SHORT STRIPPING SCREEN SUPPORT - SMALLER | 1    |
| 13       | 1080        | STRIPPING SCREEN                         | 1    |
| 14       | 1081        | DRAWER OPENING COVER                     | 1    |
| 15       | 1082        | COVER STOP                               | 1    |
| 16       | 1083        | DRONE ESCAPE CONE                        | 4    |
| 17       | 91070A254   | Rounded Head Screws for Plywood and OSB  | 7    |
| 18       | 90610A728   | Square-Drive Flat Head Screws for Wood   | 14   |
| 19       | 0026        | NO8 HARDWARE MESH                        | 1    |

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PROPRIETARY

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PROJECT

HIVE PRODUCTS

THIRD ANGLE PROJECTION

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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



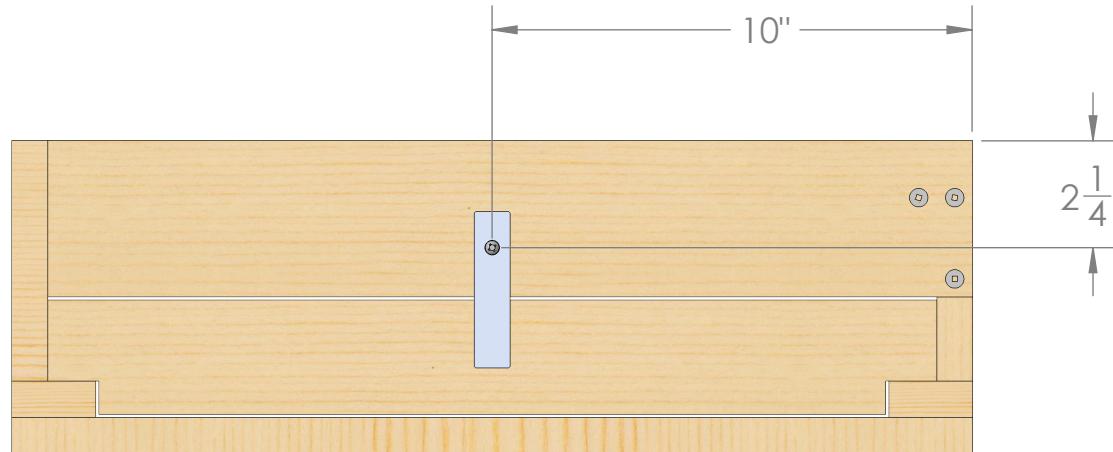
HONEY BEE RESEARCH CENTRE  
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BOX

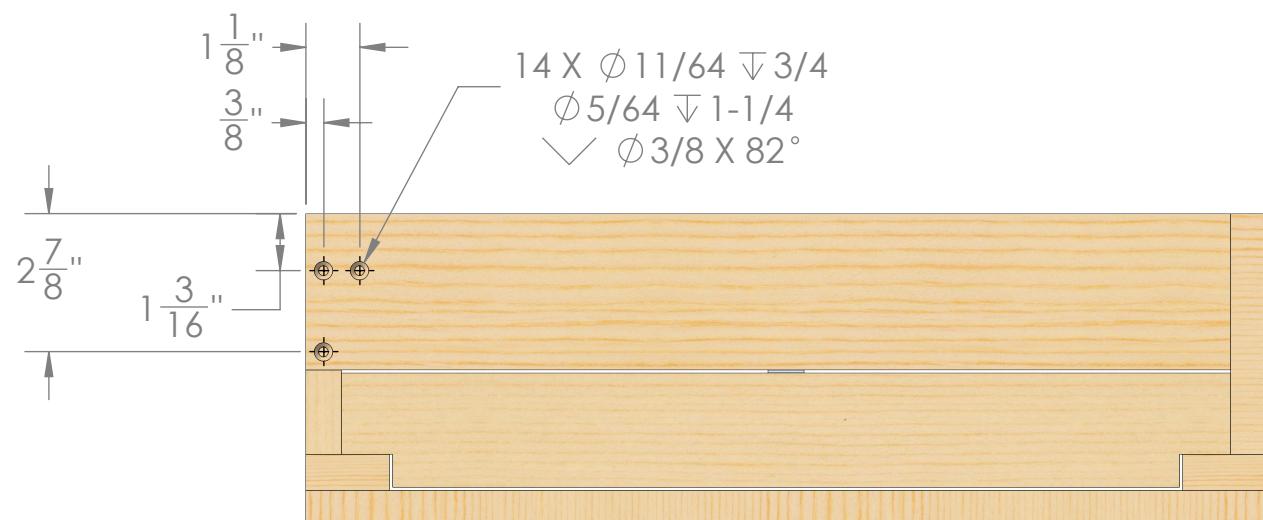
10017 2 -

NOTES:

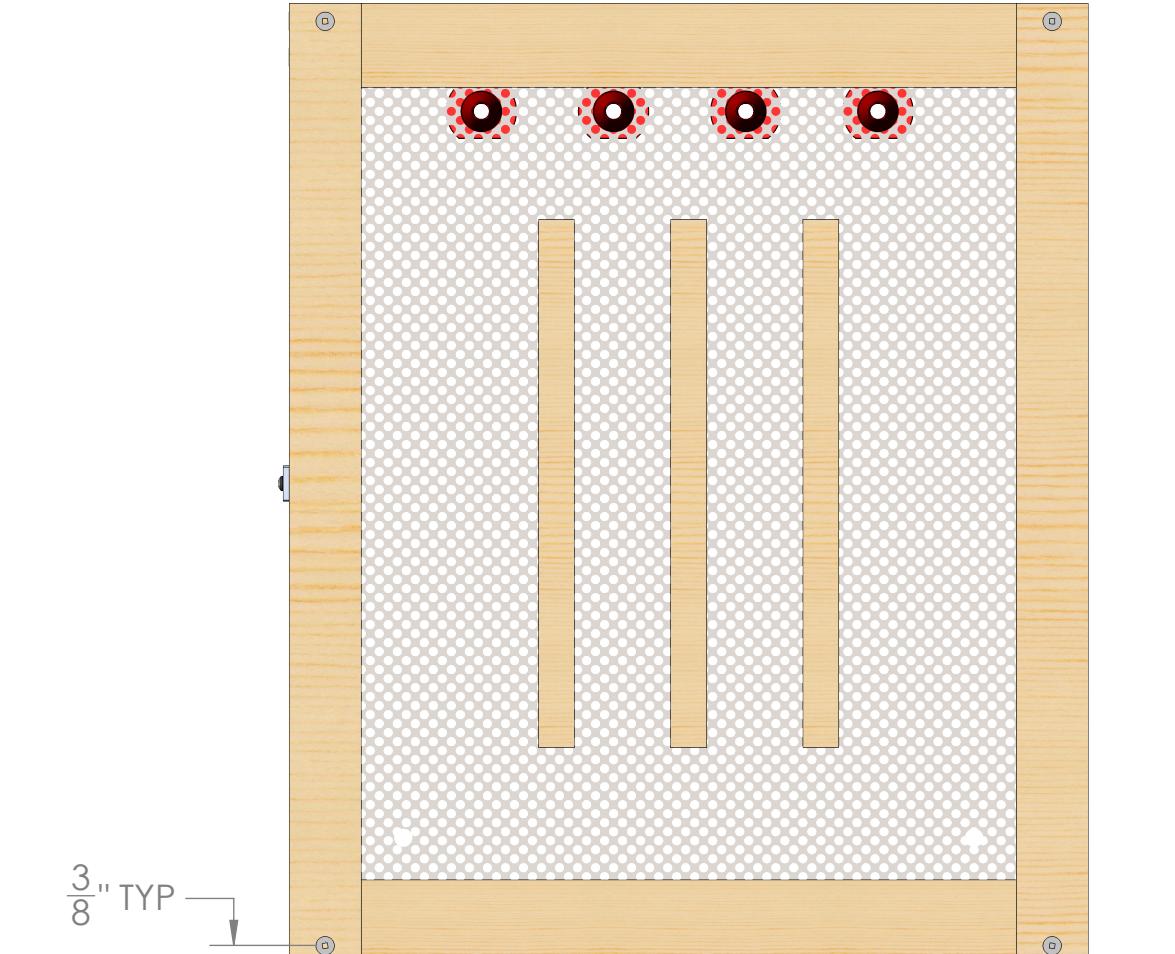
1. GLUE AND CLAMP ALL BOARDS SQUARE.
2. STAPLE SCREEN SUPPORTS IN PLACE.
3. ADD SCREEN.
4. STAPLE STRIPPING SCREEN SUPPORTS IN PLACE.
5. PREDRILL ALL HOLES AND ADD SCREWS.
6. REMOVE ALL SHARP EDGES.



LEFT SIDE



RIGHT SIDE



BOTTOM



BACK

|             |     |             |
|-------------|-----|-------------|
| 10019       | 01  | BOX         |
| PART NUMBER | REV | DESCRIPTION |

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THIRD ANGLE PROJECTION



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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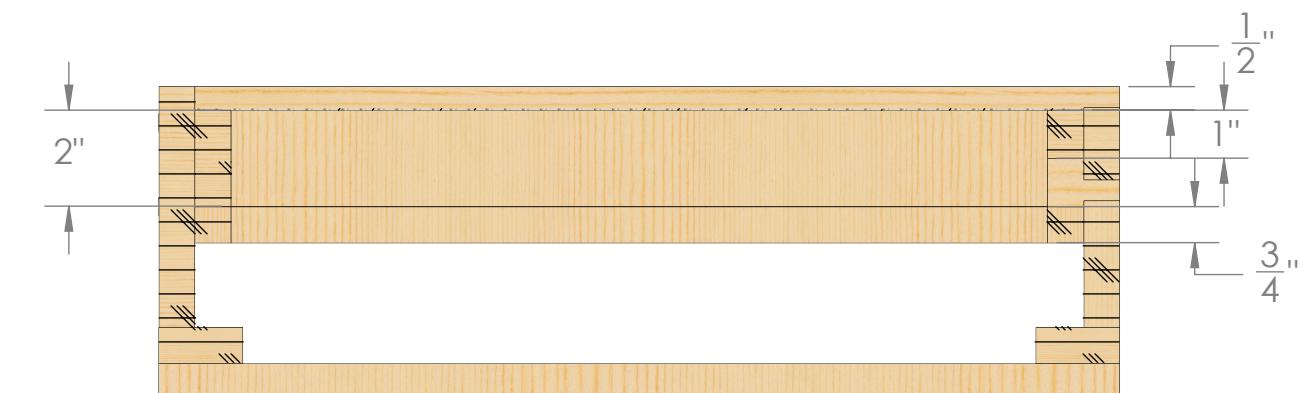
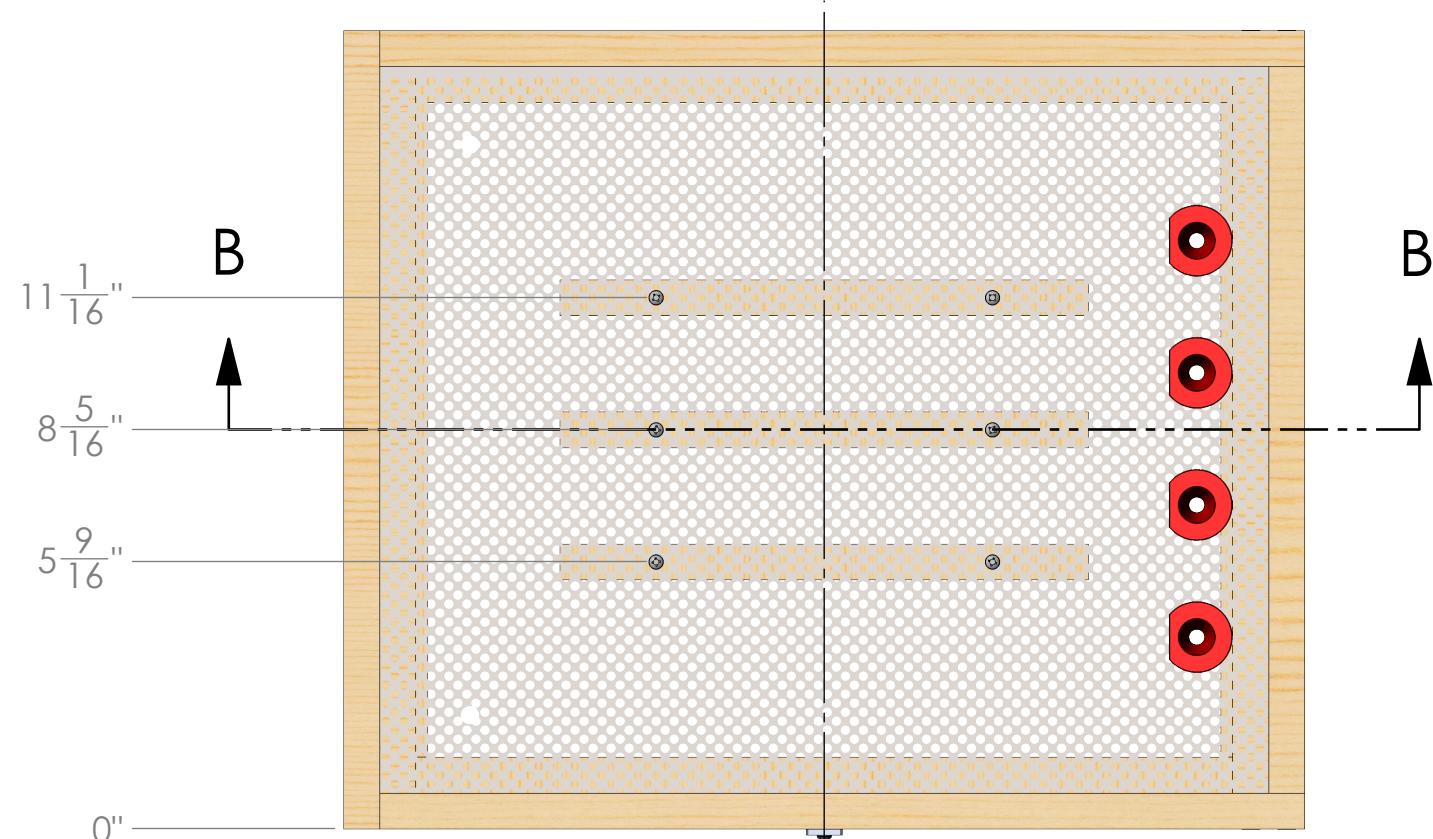
BOX

SIZE DRAWING NO  
B 1:4  
SCALE 1:4  
WEIGHT 10.213 lbs  
SHEET 3 OF 20

10017 2

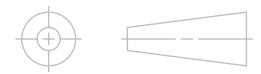
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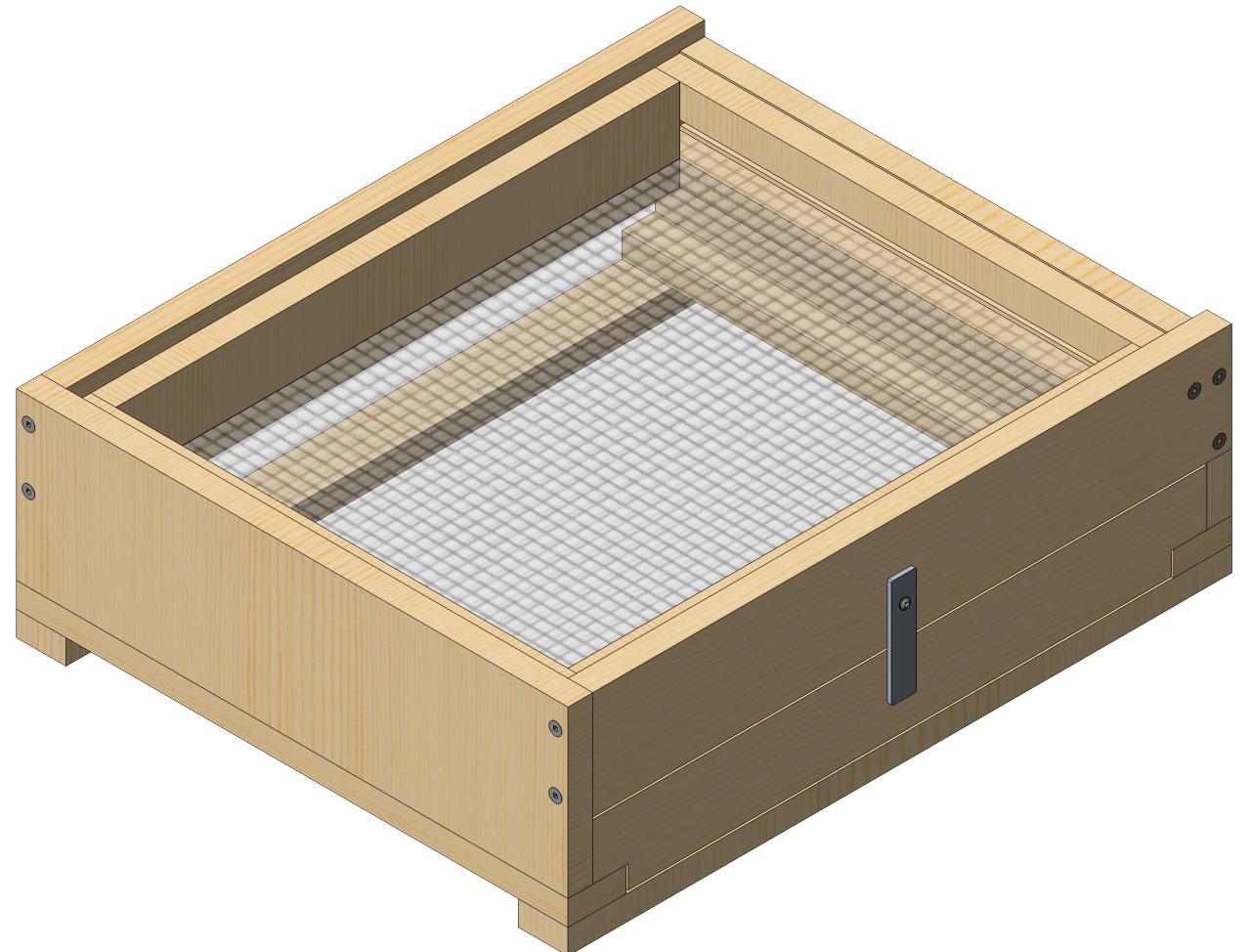
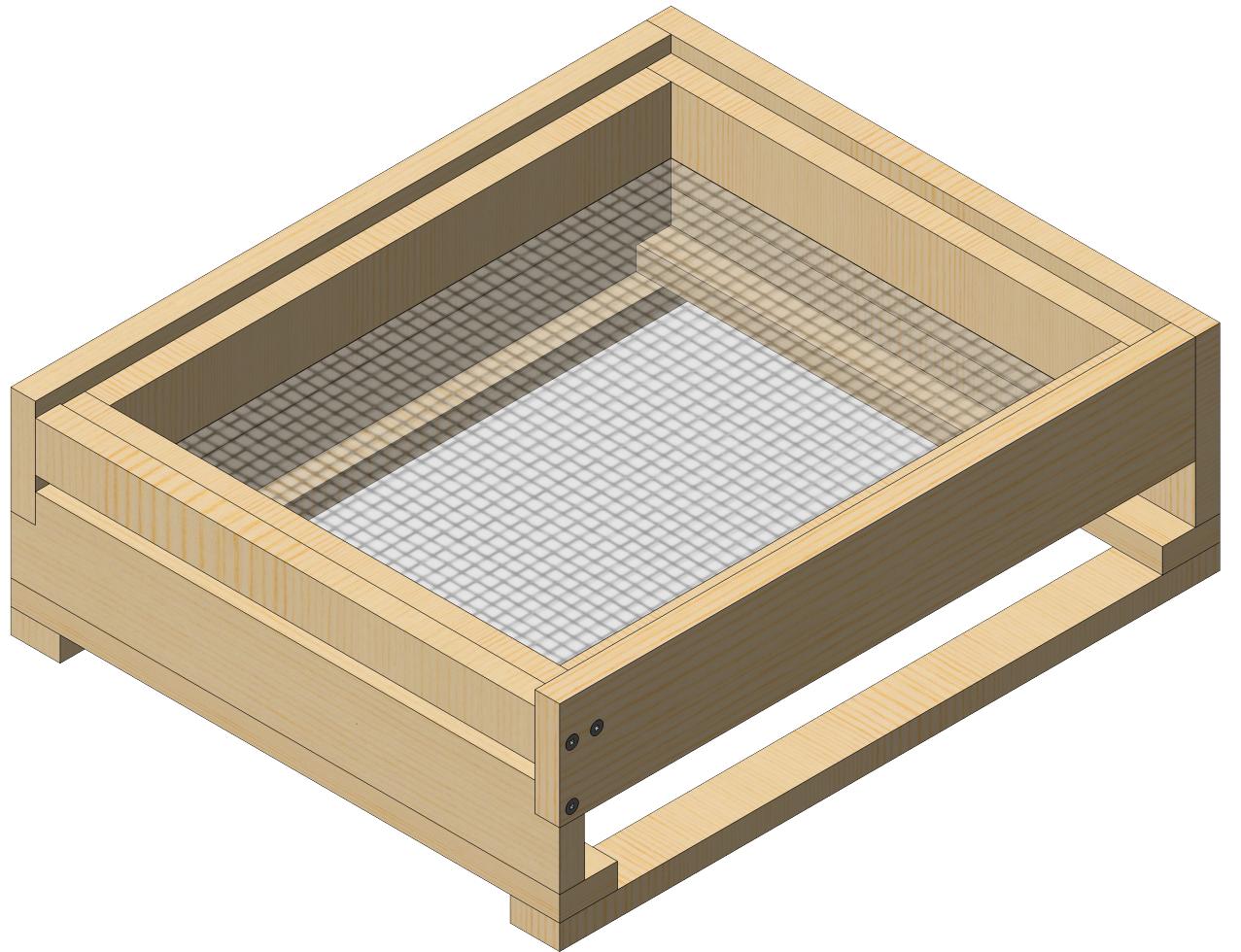
1. ADD WOOD SCREW THROUGH EXISTING HOLES TO FASTEN SUPPORTS IN APPROXIMATE LOCATION, CENTER SUPPORTS VERTICALLY.
2. CLAMP, GLUE AND STAPLE LOWER SUPPORTS.
3. ADD SCREEN.
4. CLAMP, GLUE AND STAPLE UPPER SUPPORTS.



SECTION B-B

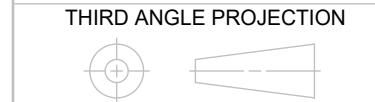
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|-------------|-----|-------------|
| 10019       | 01  | BOX         |
| PART NUMBER | REV | DESCRIPTION |

|  |  |  |  |  |
|--|--|--|--|--|
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| PROPRIETARY<br>NO PART OF THIS DOCUMENT MAY BE REPRODUCED,<br>STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN<br>ANY FORM, WITHOUT WRITTEN PERMISSION. |  | CUSTOMER<br>BEE KEEPERS<br>PROJECT<br>HIVE PRODUCTS  |  |  |
| THIRD ANGLE PROJECTION<br>  |  |  | DRAWN BY<br>F. FULKERSON<br>DATE<br>2022-03-23 | SIZE<br>B  |
| CHECKED BY<br>P.G. KELLY<br>DATE<br>2022-03-23   |  |  | APPROVED<br>P.G. KELLY<br>DATE<br>2022-03-23   | DRAWING NO<br>10017 2 -  |
| SCALE<br>1:4   |  |  | WEIGHT<br>7.703 lbs                            | SHEET 4 OF 20  |



|             |     |             |
|-------------|-----|-------------|
| 10019       | 01  | BOX         |
| PART NUMBER | REV | DESCRIPTION |

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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

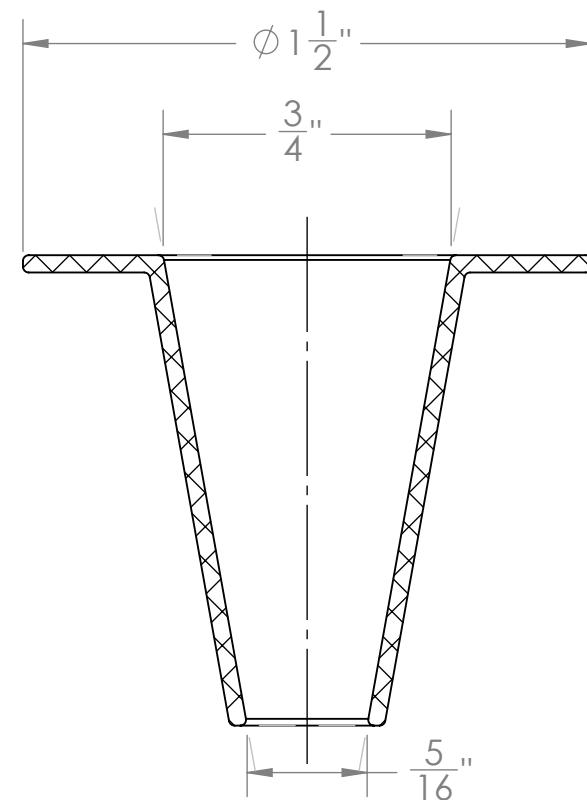
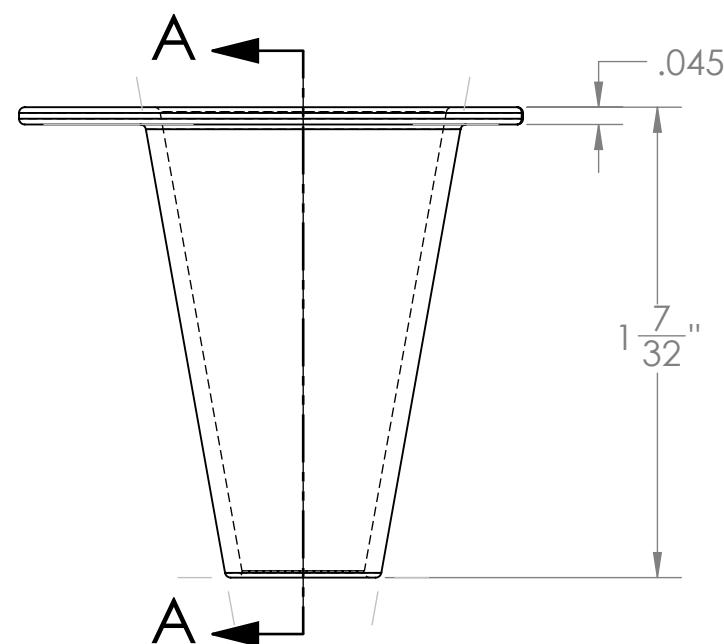
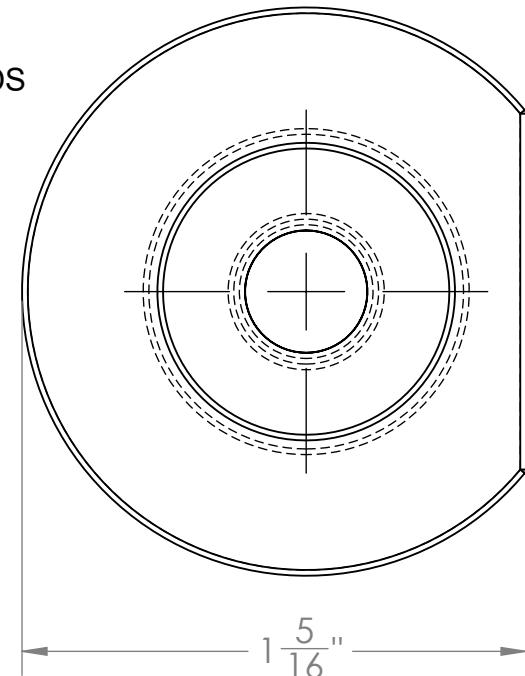


HONEY BEE RESEARCH CENTRE  
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BOX

|       |            |                   |
|-------|------------|-------------------|
| SIZE  | DRAWING NO | REVISION          |
| B     |            | 10017 2 -         |
| SCALE | 1:4        | WEIGHT 10.213 lbs |

NOTES:  
 1. MATERIAL: ABS  
 2. USE STL FILE FOR 3D PRINTING  
 3. ALL ROUNDS AND FILLETS ARE 1/64 UOS  
 4. 4 PCS REQ'D



SECTION A-A

|             |     |                   |
|-------------|-----|-------------------|
| 1083        | 01  | DRONE ESCAPE CONE |
| PART NUMBER | REV | DESCRIPTION       |

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 PROJECT  
 HIVE PRODUCTS

THIRD ANGLE PROJECTION



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

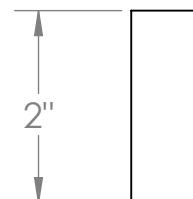
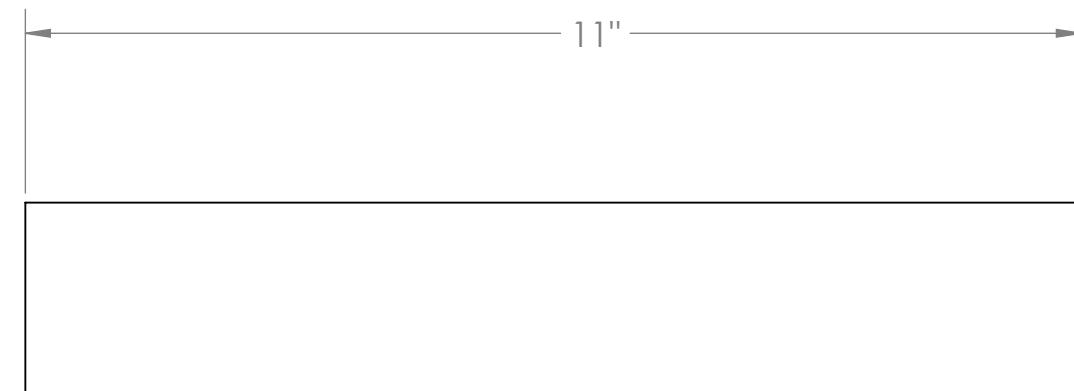
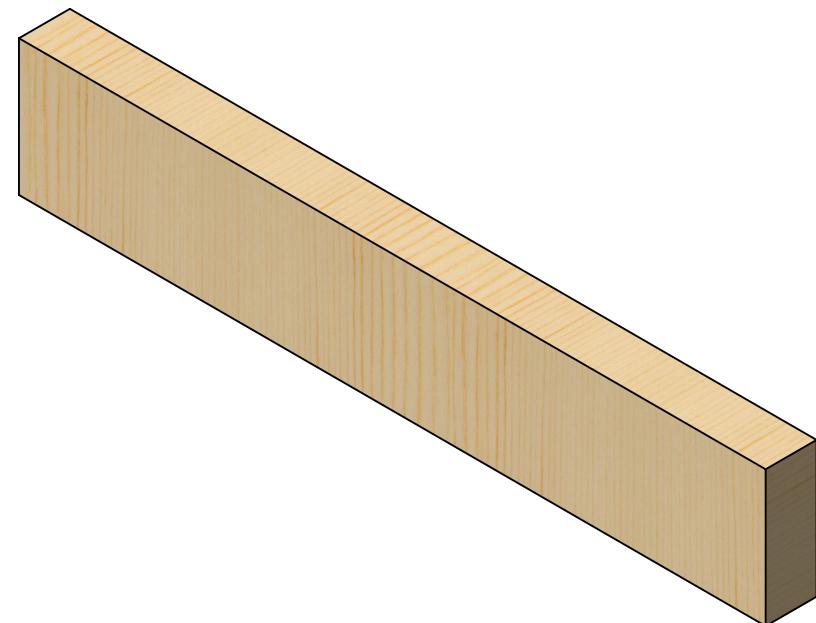
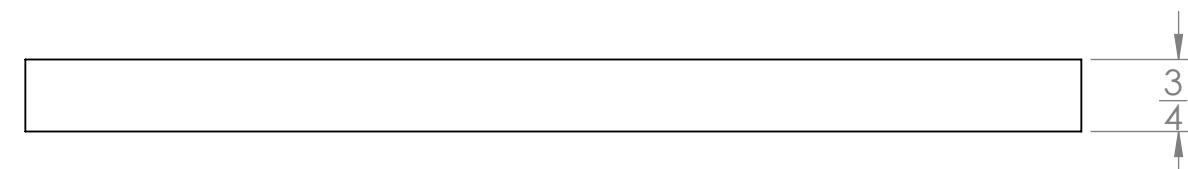


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## DRONE ESCAPE CONE

|       |            |                  |               |
|-------|------------|------------------|---------------|
| SIZE  | DRAWING NO | 10017 2          | REVISION      |
| SCALE | 2:1        | WEIGHT 0.005 lbs | SHEET 6 OF 20 |

NOTES:  
 1. MATERIAL: Pine  
 2. 3 PCS REQ'D  
 3. REMOVE ALL SHARP EDGES



|             |     |             |
|-------------|-----|-------------|
| 1079        | -   | SUPPORT     |
| PART NUMBER | REV | DESCRIPTION |

UNLESS OTHERWISE SPECIFIED  
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 DIMENSIONS ARE IN INCHES

THIRD ANGLE PROJECTION



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 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

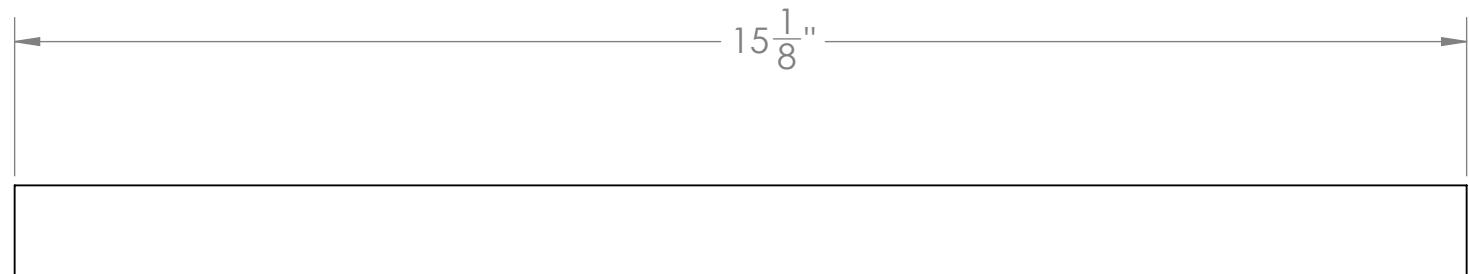
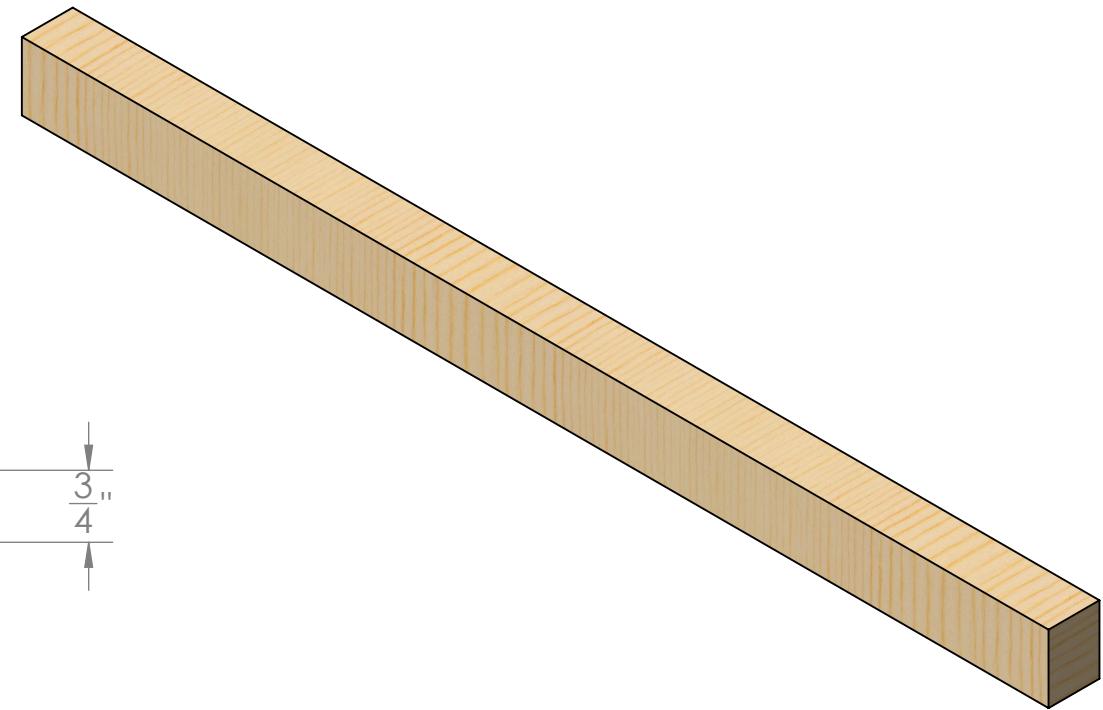
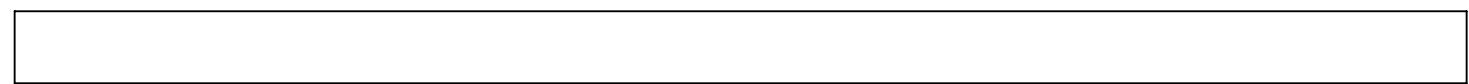


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**SUPPORT**

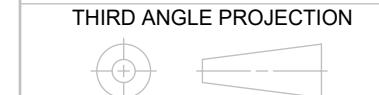
SIZE DRAWING NO  
**B** 10017 2 -  
 REVISION  
 SCALE 1:2 WEIGHT 0.203 lbs SHEET 7 OF 20

NOTES:  
 1. MATERIAL: Pine  
 2. REMOVE ALL SHARP EDGES



|             |     |  |
|-------------|-----|--|
| 1084        | 01  | SHORT STRIPPING SCREEN SUPPORT - SMALLER |
| PART NUMBER | REV | DESCRIPTION                              |

UNLESS OTHERWISE SPECIFIED  
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 INTERPRET DIMENSIONS AND TOLERANCES  
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 PROJECT  
 HIVE PRODUCTS

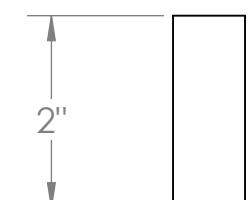
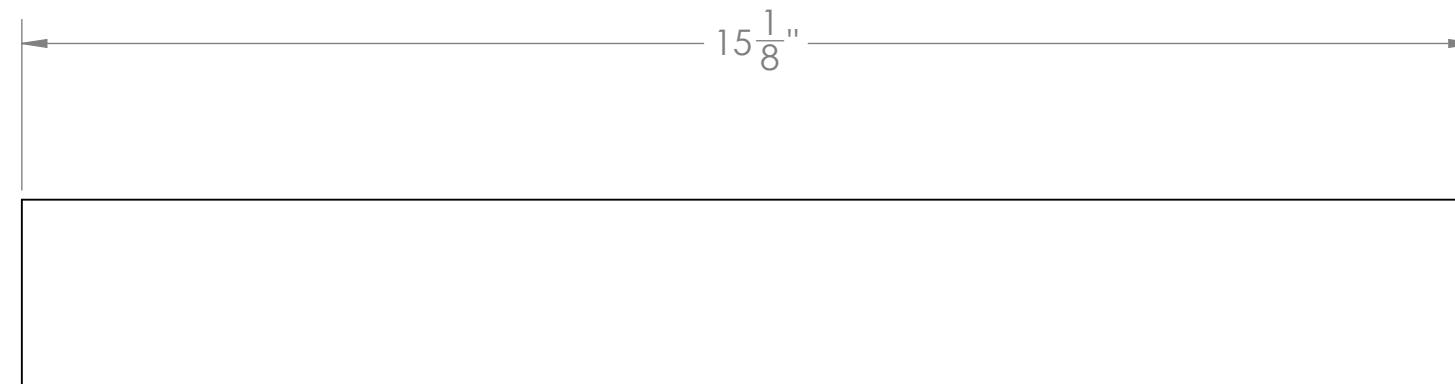
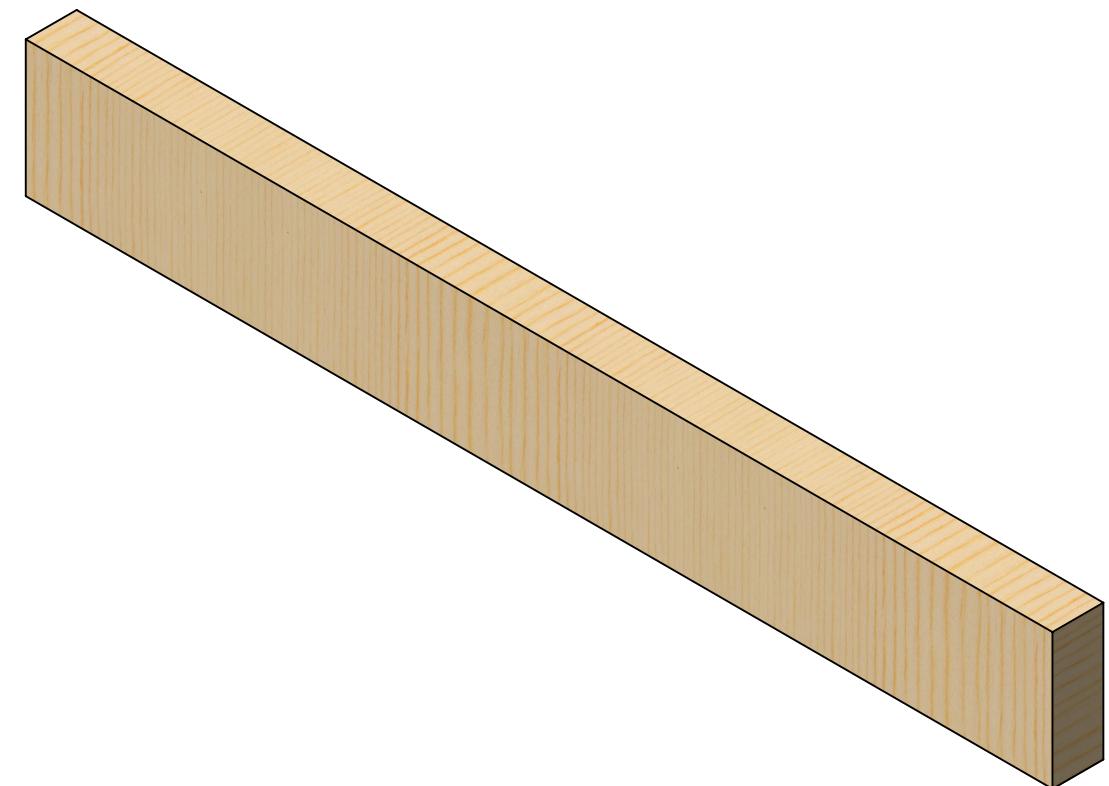
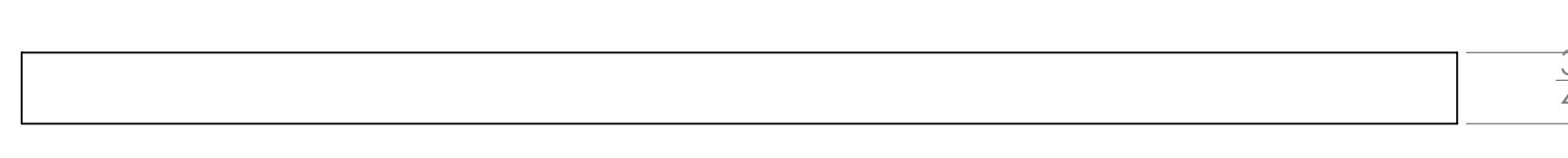
DRAWN BY  
 F. FULKERSON  
 DATE  
 3/29/2024  
 CHECKED BY  
 P.G. KELLY  
 DATE  
 3/29/2024  
 APPROVED  
 P.G. KELLY  
 DATE  
 3/29/2024



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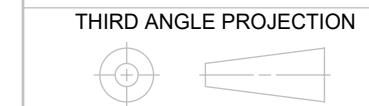
SHORT STRIPPING SCREEN SUPPORT - SMALLER  
 SIZE B DRAWING NO 10017 2 -  
 REVISION  
 SCALE 1:2 WEIGHT 0.139 lbs SHEET 8 OF 20

NOTES:  
 1. MATERIAL: Pine  
 2. REMOVE ALL SHARP EDGES



|             |     |                                |
|-------------|-----|--------------------------------|
| 1077        | 01  | SHORT STRIPPING SCREEN SUPPORT |
| PART NUMBER | REV | DESCRIPTION                    |

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 F. FULKERSON  
 DATE  
 3/29/2024  
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 DATE  
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 APPROVED  
 P.G. KELLY  
 DATE  
 3/29/2024



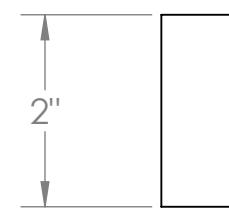
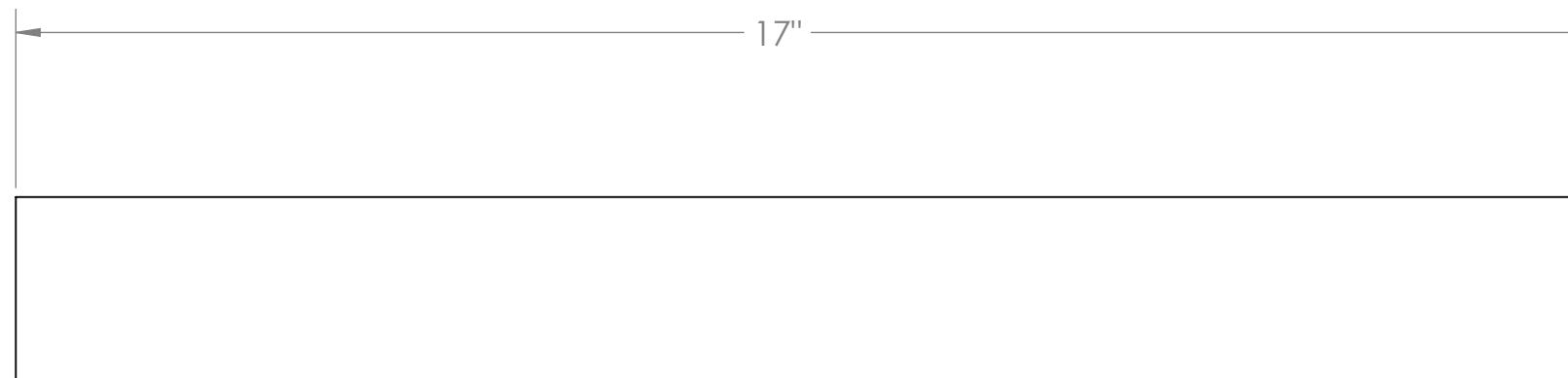
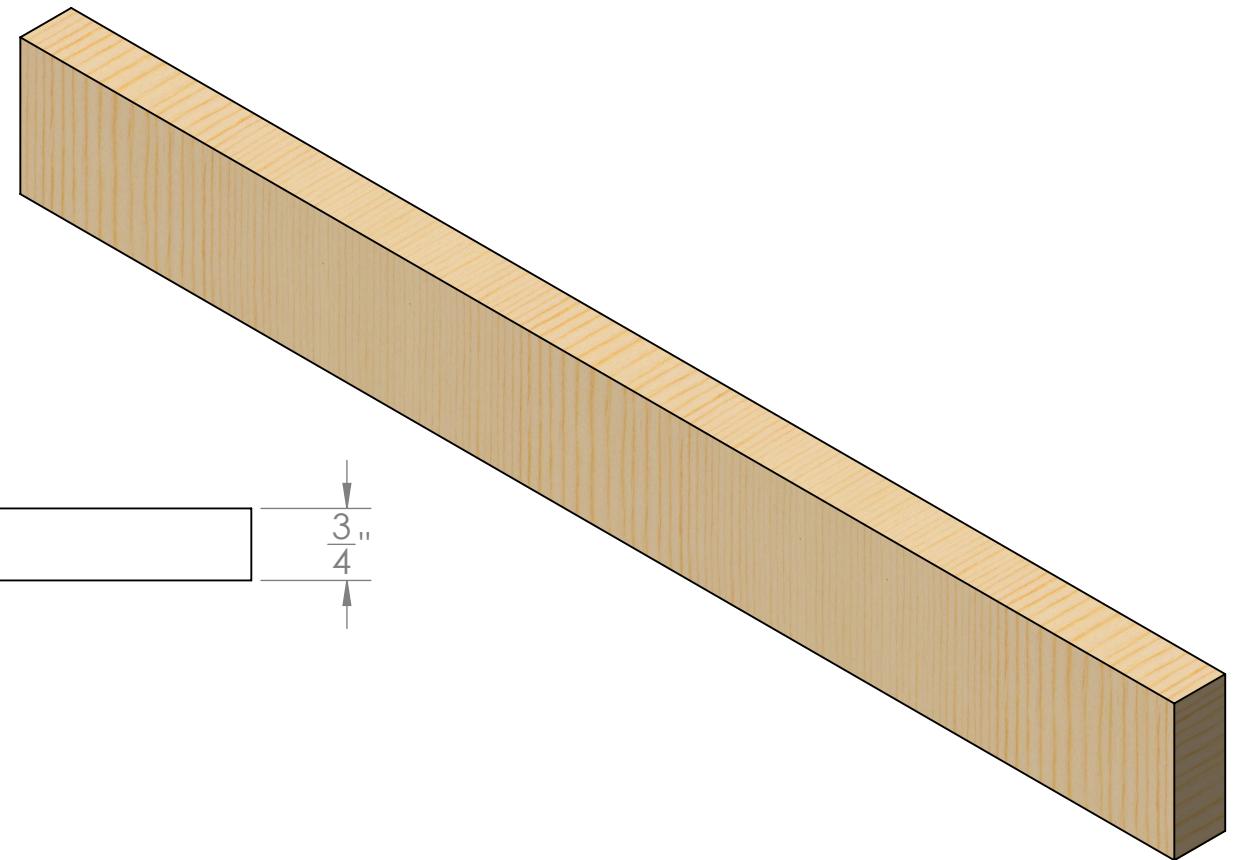
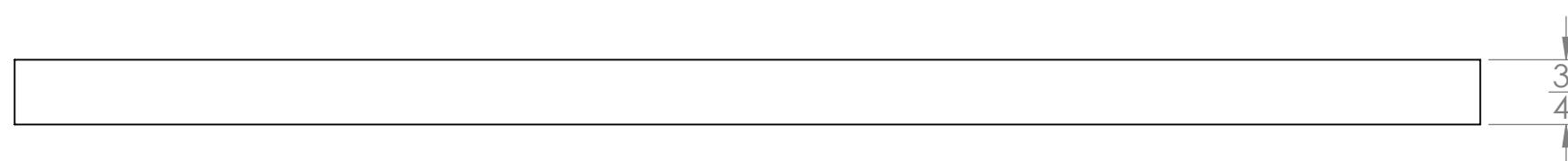
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## SHORT STRIPPING SCREEN SUPPORT

| SIZE  | DRAWING NO | REVISION         |
|-------|------------|------------------|
| B     | 10017 2    | -                |
| SCALE | 1:2        | WEIGHT 0.279 lbs |

SHEET 9 OF 20

NOTES:  
 1. MATERIAL: Pine  
 2. 2 PCS REQ'D  
 3. REMOVE ALL SHARP EDGES



|             |     |                               |
|-------------|-----|-------------------------------|
| 1078        | 01  | LONG STRIPPING SCREEN SUPPORT |
| PART NUMBER | REV | DESCRIPTION                   |

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CUSTOMER  
 BEE KEEPERS  
 PROJECT  
 HIVE PRODUCTS

THIRD ANGLE PROJECTION



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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## LONG STRIPPING SCREEN SUPPORT

SIZE  
**B**

DRAWING NO  
**10017 2**

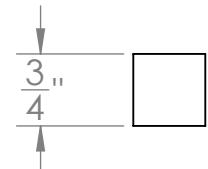
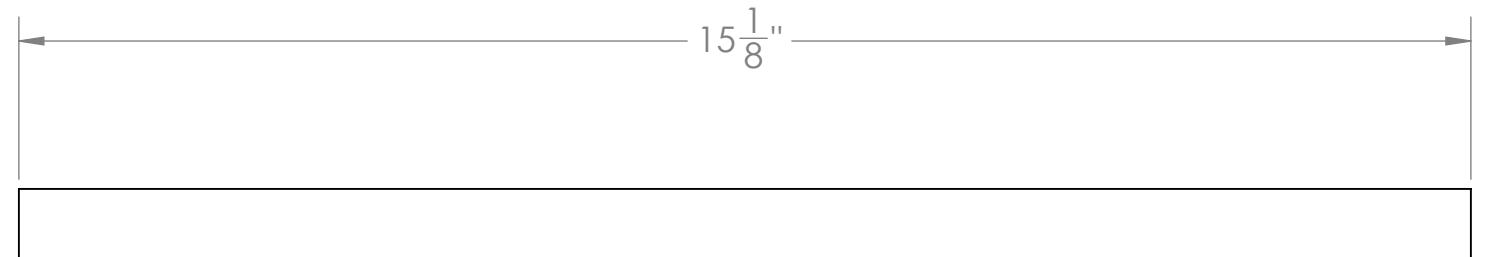
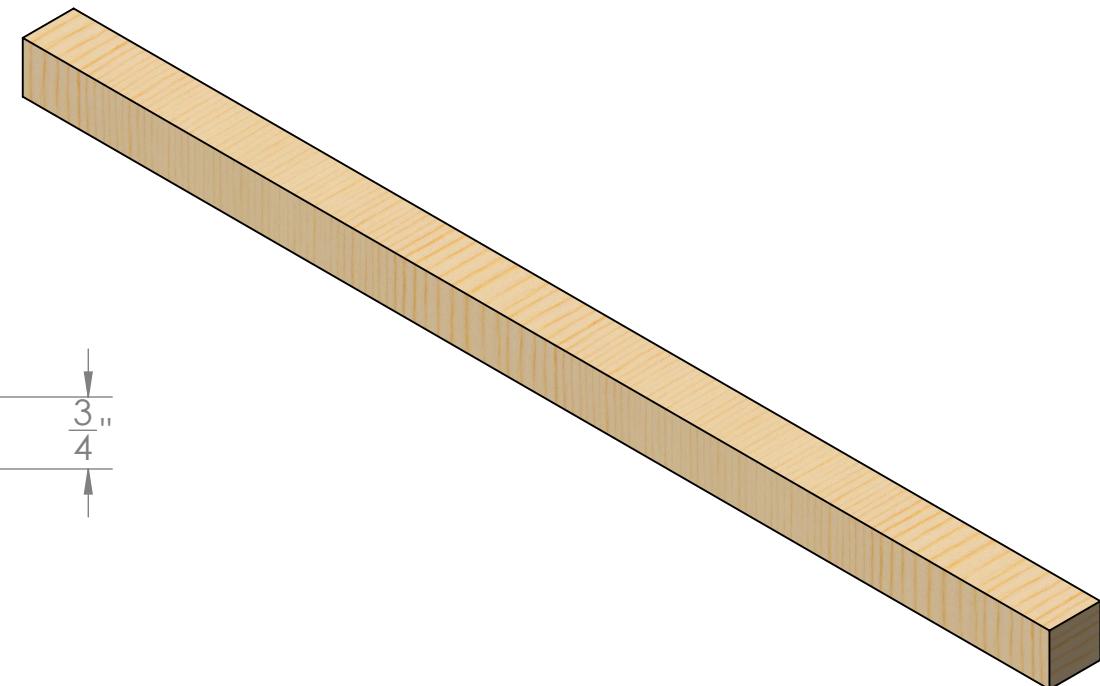
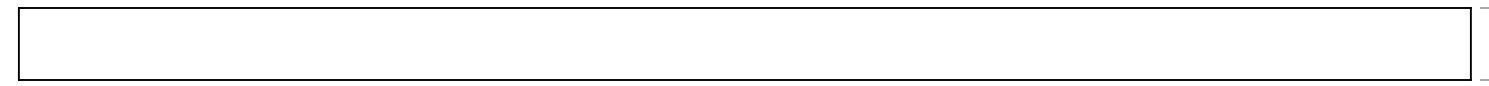
REVISION  
 -

SCALE  
 1:2

WEIGHT  
 0.313 lbs

SHEET 10 OF 20

NOTES:  
 1. MATERIAL: Pine  
 2. 2 PCS REQ'D  
 3. REMOVE ALL SHARP EDGES



|             |     |  |
|-------------|-----|--|
| 1084        | 01  | SHORT STRIPPING SCREEN SUPPORT - SMALLER |
| PART NUMBER | REV | DESCRIPTION                              |

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 BEE KEEPERS  
 PROJECT  
 HIVE PRODUCTS

THIRD ANGLE PROJECTION



DRAWN BY  
 F. FULKERSON  
 DATE  
 3/29/2024  
 CHECKED BY  
 P.G. KELLY  
 DATE  
 3/29/2024  
 APPROVED  
 P.G. KELLY  
 DATE  
 3/29/2024

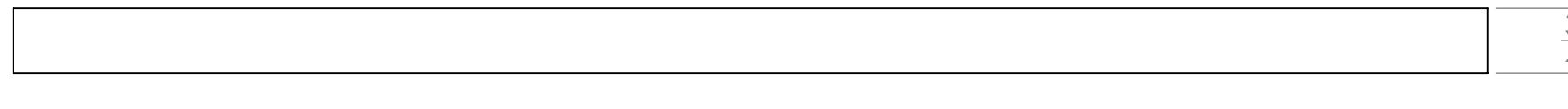


HONEY BEE RESEARCH CENTRE  
 THE UNIVERSITY OF GUELPH

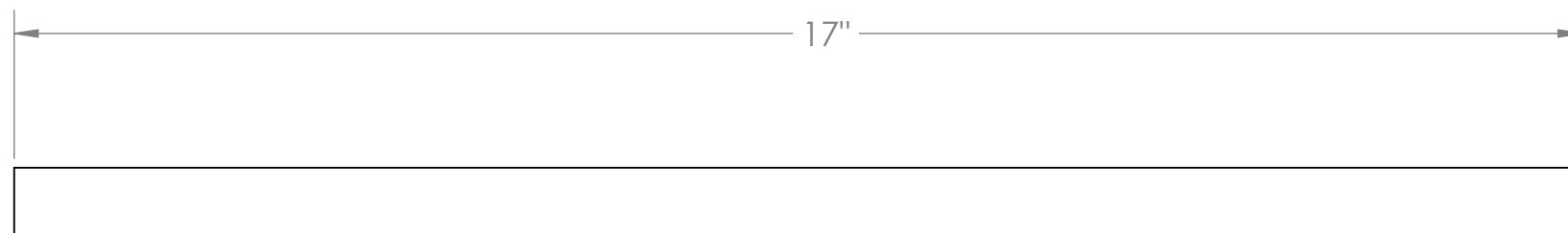
SHORT STRIPPING SCREEN SUPPORT - SMALLER

SIZE DRAWING NO  
**B** 10017 2 -  
 REVISION  
 SCALE 1:2  
 WEIGHT 0.139 lbs  
 SHEET 11 OF 20

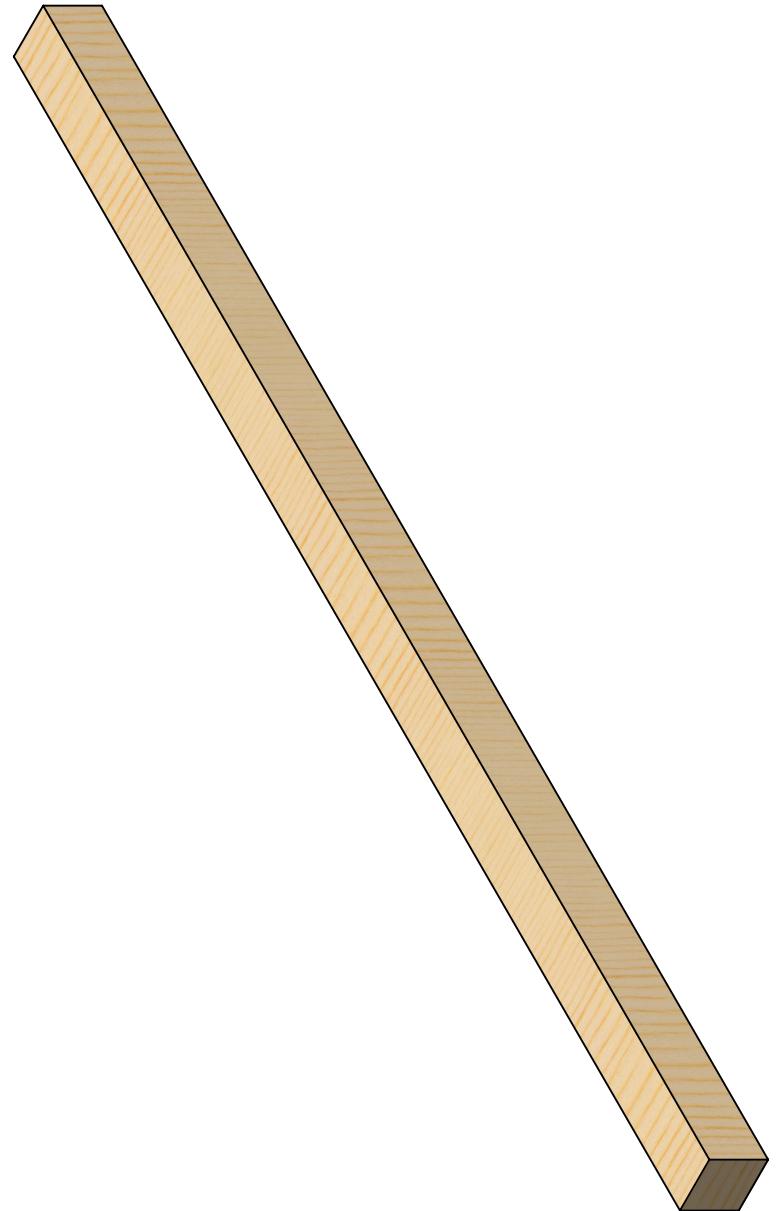
NOTES:  
 1. MATERIAL: Pine  
 2. 2 PCS REQ'D  
 3. REMOVE ALL SHARP EDGES



3/4



17"



3/4

|             |     |                     |
|-------------|-----|---------------------|
| 1076        | -   | LONG SCREEN 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

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CUSTOMER  
 BEE KEEPERS  
 PROJECT  
 HIVE PRODUCTS

THIRD ANGLE PROJECTION



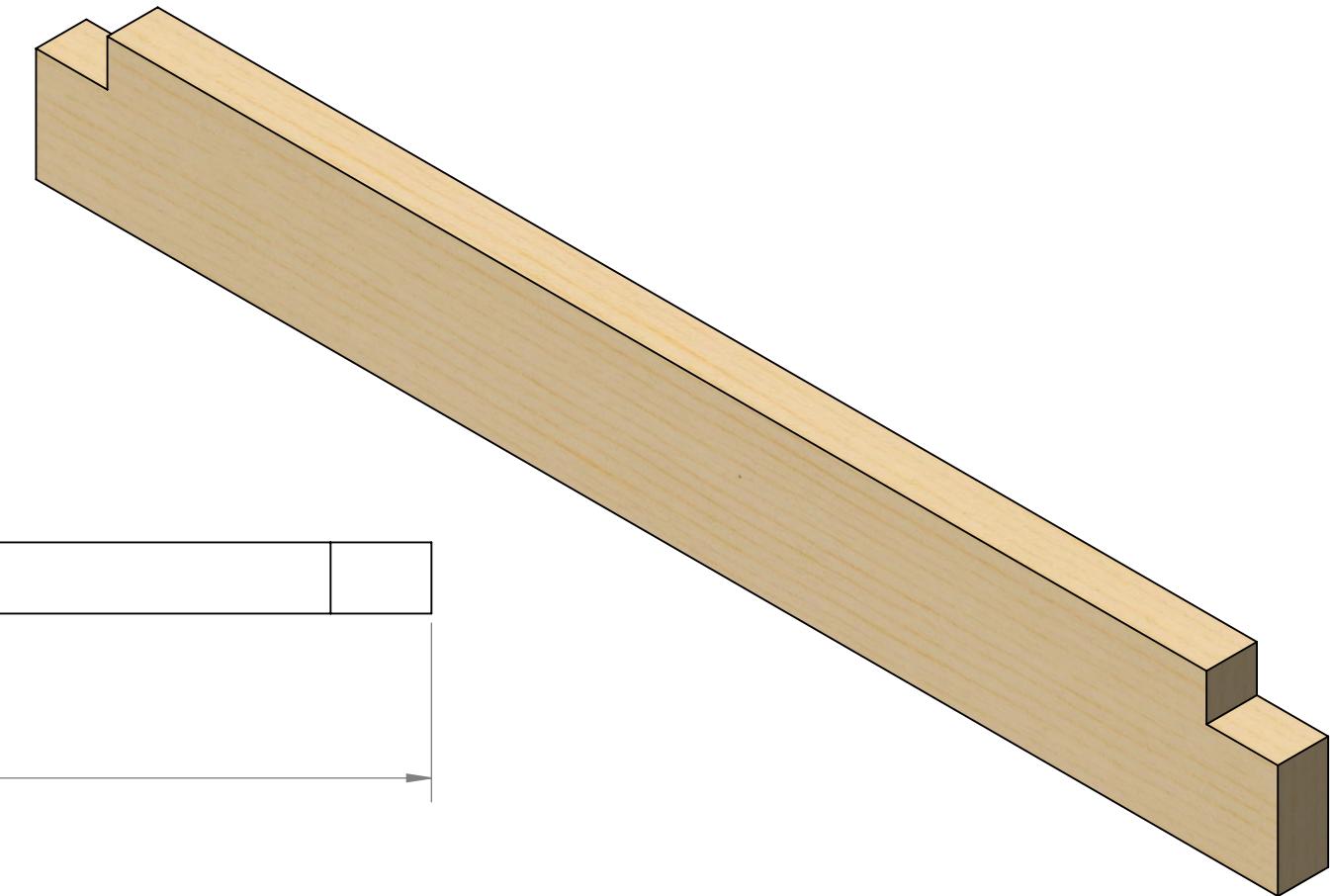
DRAWN BY  
 F. FULKERSON  
 DATE  
 2022-03-23  
 CHECKED BY  
 P.G. KELLY  
 DATE  
 2022-03-23  
 APPROVED  
 P.G. KELLY  
 DATE  
 2022-03-23



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TITLE: **LONG SCREEN SUPPORT**  
 SIZE: **B** DRAWING NO: **10017 2** -  
 REVISION: **-**  
 SCALE: **1:2** WEIGHT: **0.117 lbs** SHEET **12 OF 20**

NOTES:  
 1. MATERIAL: Pine  
 2. REMOVE ALL SHARP EDGES



|             |     |                      |
|-------------|-----|----------------------|
| 1081        | -   | DRAWER OPENING COVER |
| PART NUMBER | REV | DESCRIPTION          |

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

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CUSTOMER  
 BEE KEEPERS  
 PROJECT  
 HIVE PRODUCTS

THIRD ANGLE PROJECTION  

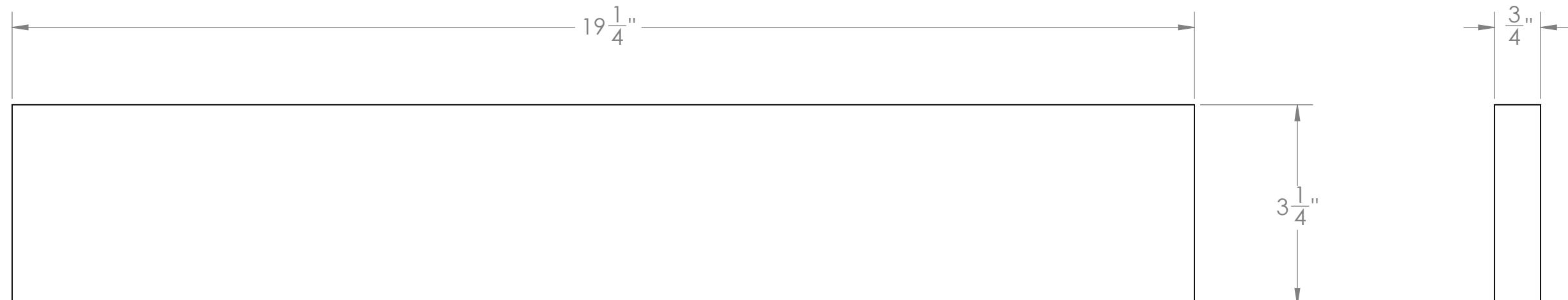
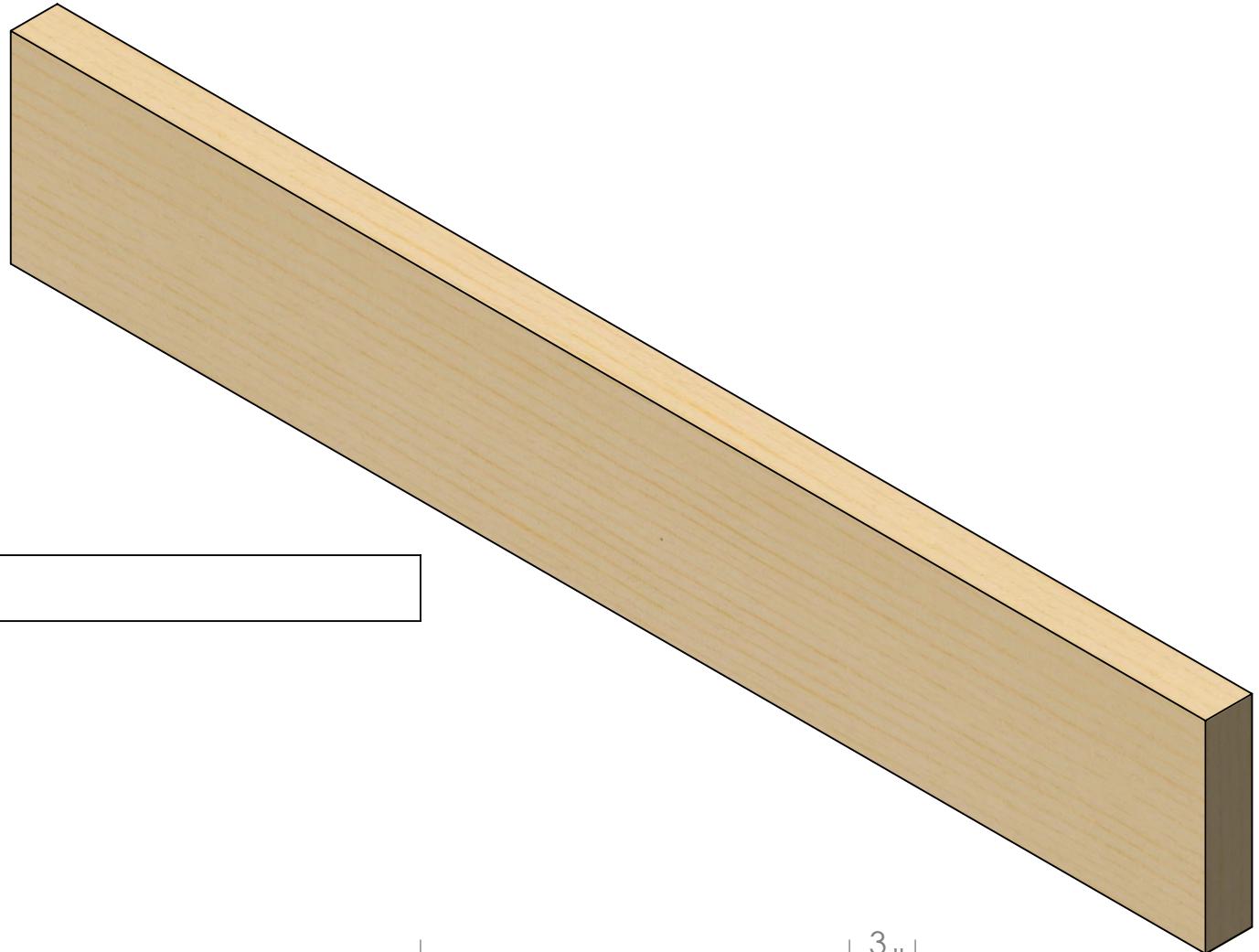

DRAWN BY  
 F. FULKERSON DATE  
 2022-03-23  
 CHECKED BY  
 P.G. KELLY DATE  
 2022-03-23  
 APPROVED  
 P.G. KELLY DATE  
 2022-03-23



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**DRAWER OPENING COVER**  
 DRAWING NO  
**B** 10017 2 -  
 REVISION  
 SCALE 1:2 WEIGHT 0.391 lbs SHEET 13 OF 20

NOTES:  
 1. MATERIAL: Pine  
 2. 2 PCS REQ'D  
 3. REMOVE ALL SHARP EDGES



|             |     |  |
|-------------|-----|--|
| 1084        | 01  | SHORT STRIPPING SCREEN SUPPORT - SMALLER |
| 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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CUSTOMER  
 BEE KEEPERS  
 PROJECT  
 HIVE PRODUCTS

DRAWN BY  
 F. FULKERSON  
 DATE  
 3/29/2024  
 CHECKED BY  
 P.G. KELLY  
 DATE  
 3/29/2024  
 APPROVED  
 P.G. KELLY  
 DATE  
 3/29/2024



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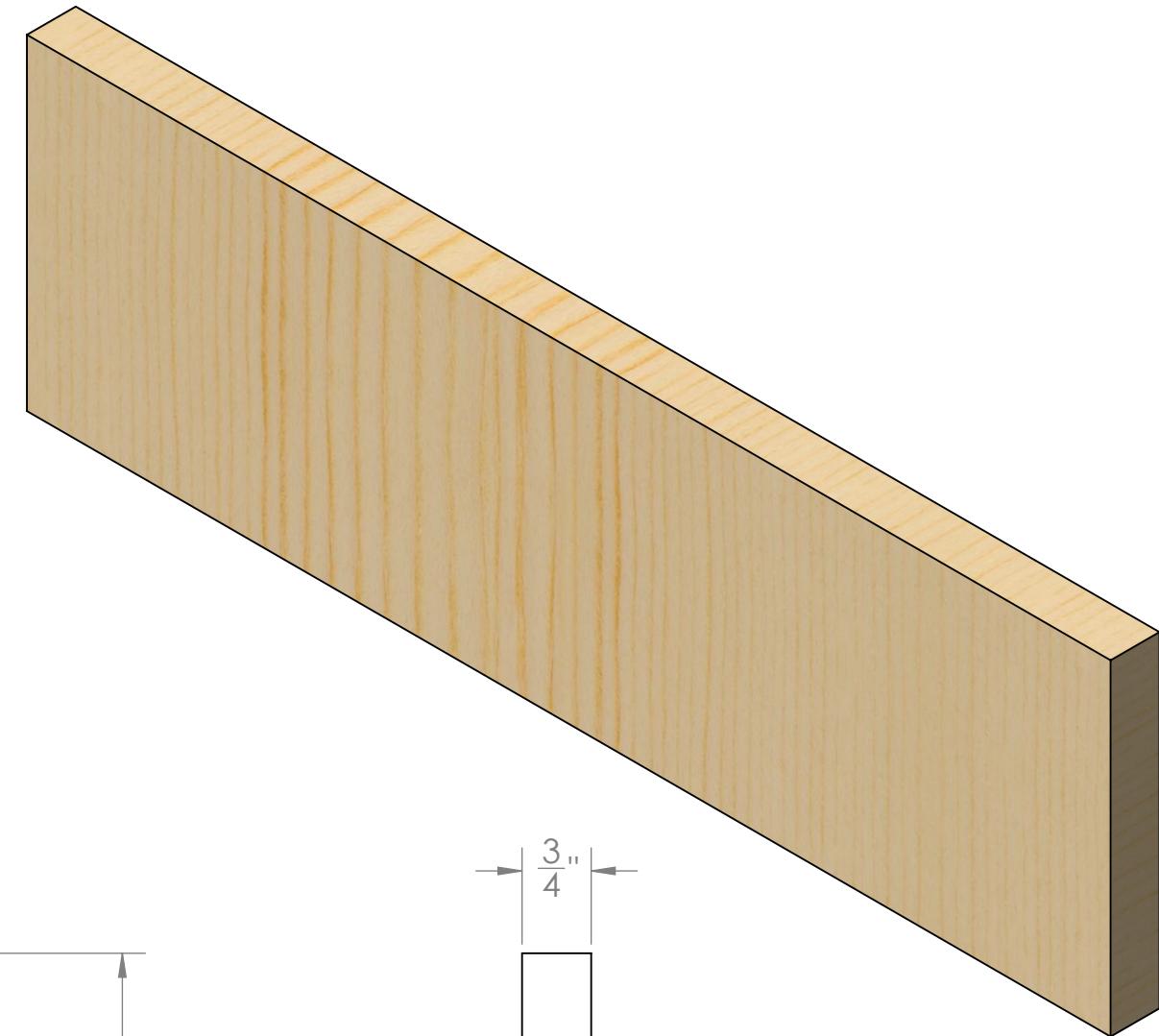
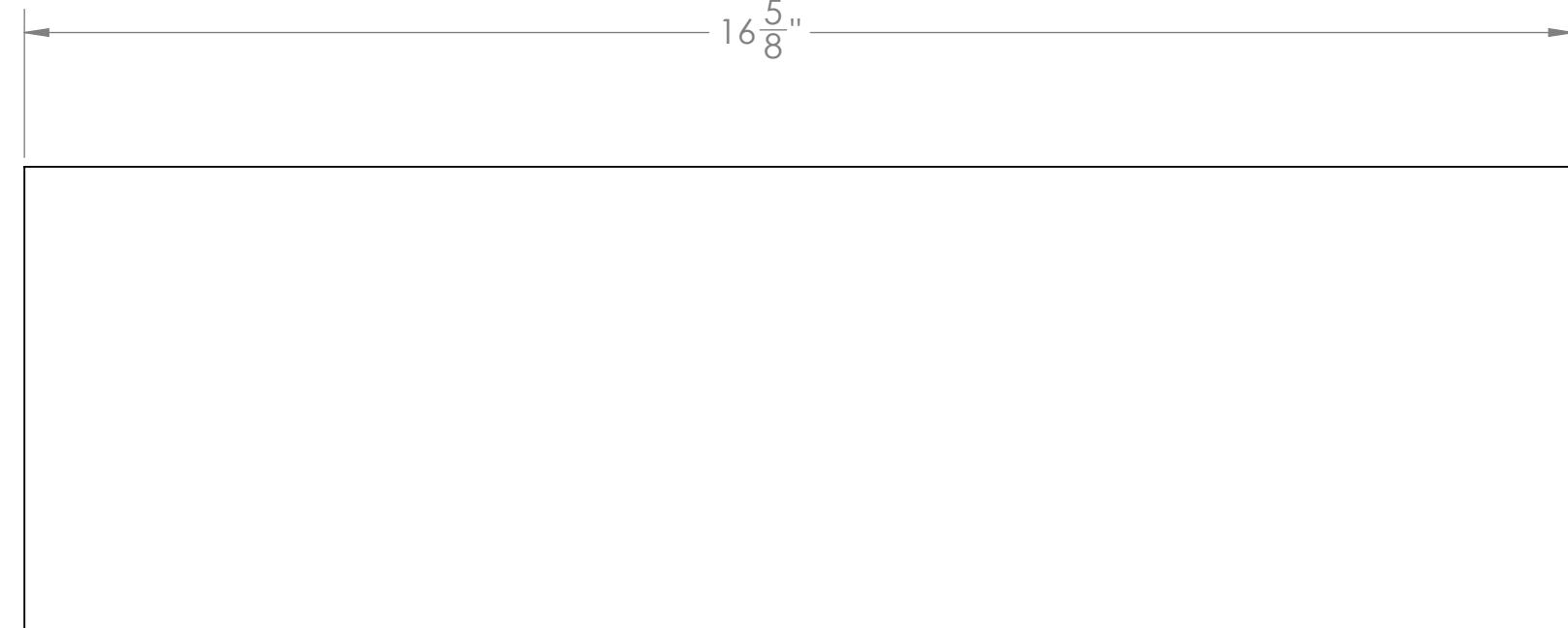
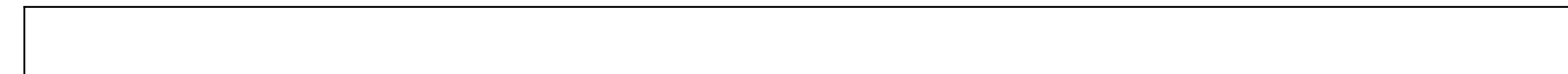
SHORT STRIPPING SCREEN SUPPORT - SMALLER

SIZE DRAWING NO  
 B 10017 2 -

REVISION  
 -

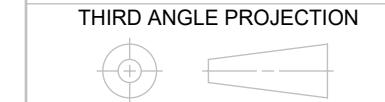
SCALE 1:2  
 WEIGHT 0.139 lbs  
 SHEET 14 OF 20

NOTES:  
 1. MATERIAL: Pine  
 2. REMOVE ALL SHARP EDGES



|             |     |             |
|-------------|-----|-------------|
| 1069        | -   | BACK        |
| PART NUMBER | REV | DESCRIPTION |

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



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CUSTOMER  
 BEE KEEPERS  
 PROJECT  
 HIVE PRODUCTS

DRAWN BY  
 F. FULKERSON DATE  
 3/29/2024  
 CHECKED BY  
 P.G. KELLY DATE  
 3/29/2024  
 APPROVED  
 P.G. KELLY DATE  
 3/29/2024

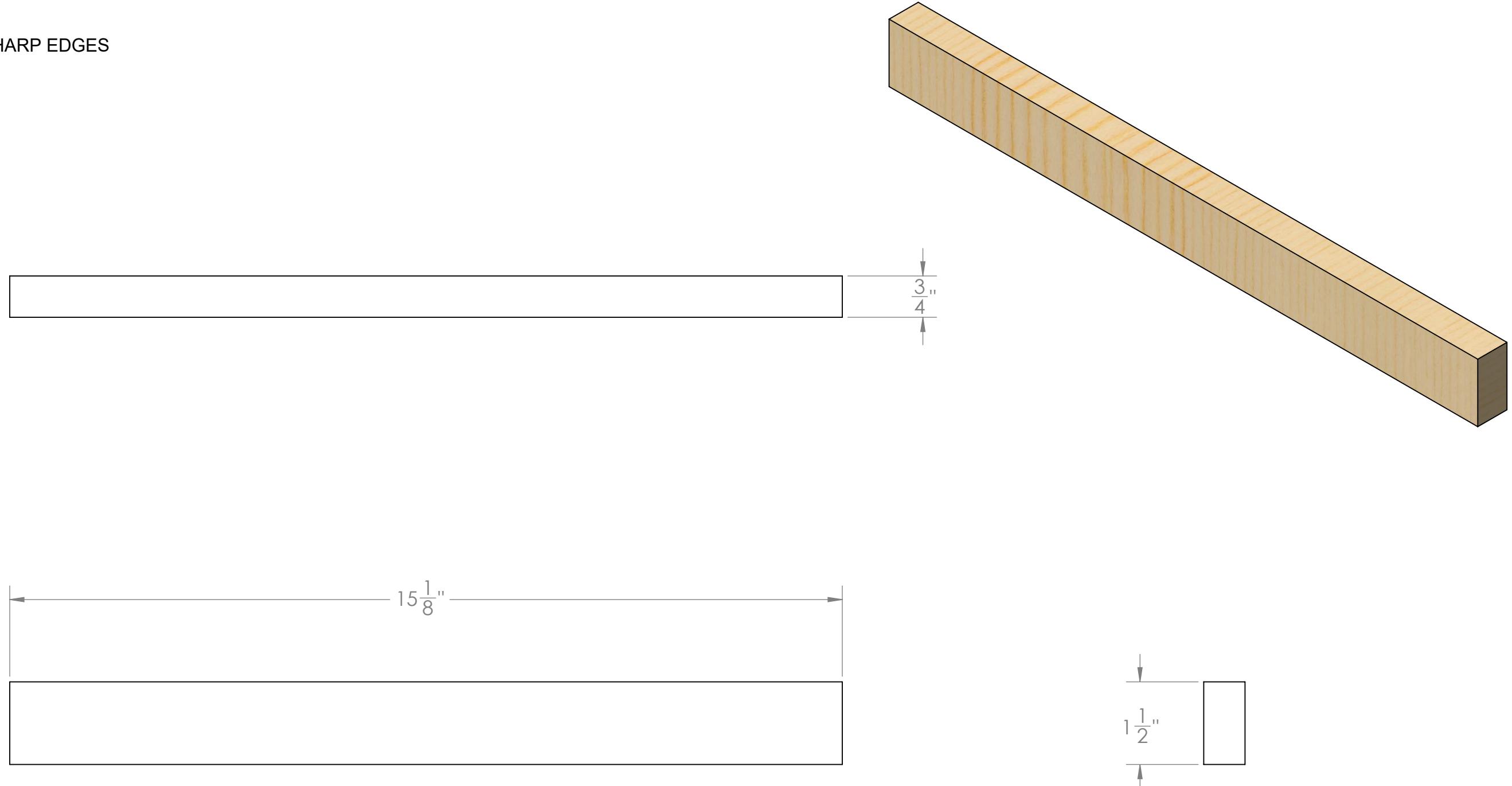


HONEY BEE RESEARCH CENTRE  
 THE UNIVERSITY OF GUELPH

**BACK**

| SIZE     | DRAWING NO | REVISION         |
|----------|------------|------------------|
| <b>B</b> | 10017 2    | -                |
| SCALE    | 1:2        | WEIGHT 0.766 lbs |

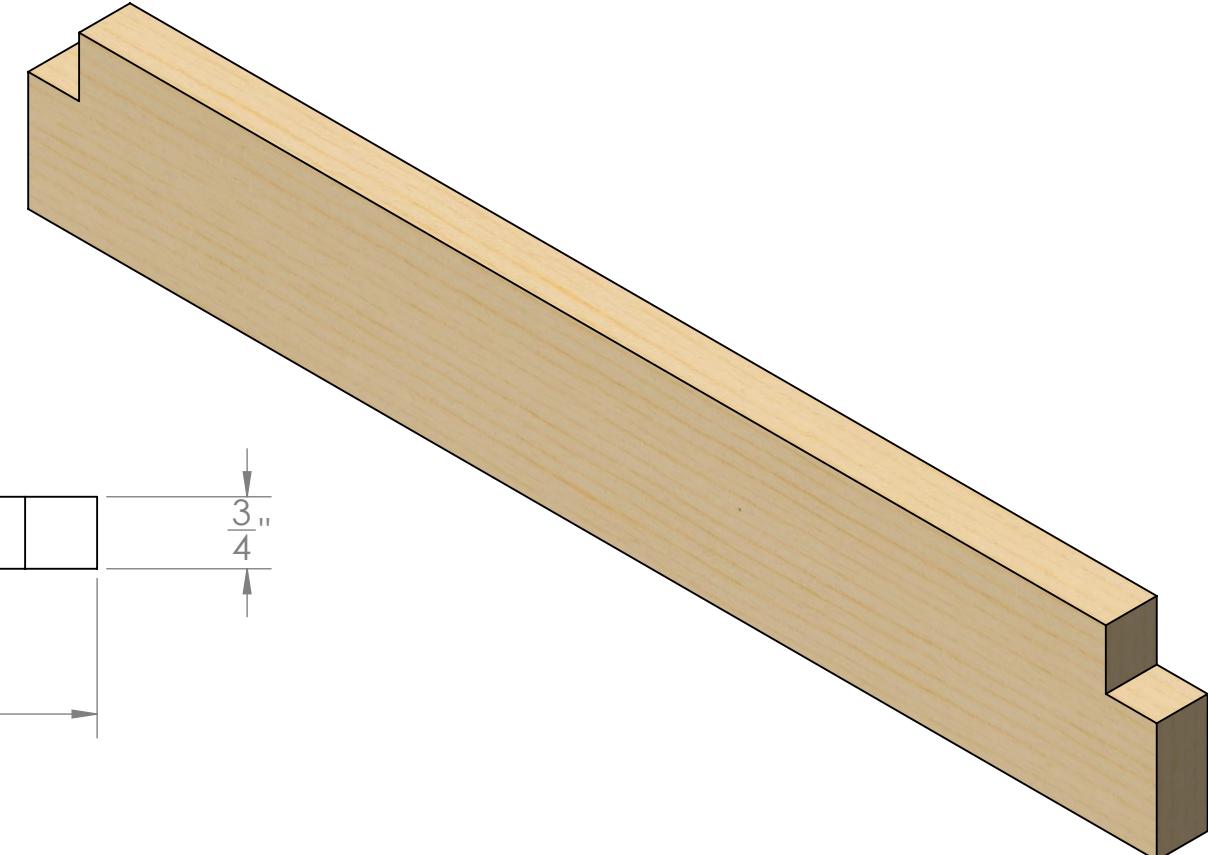
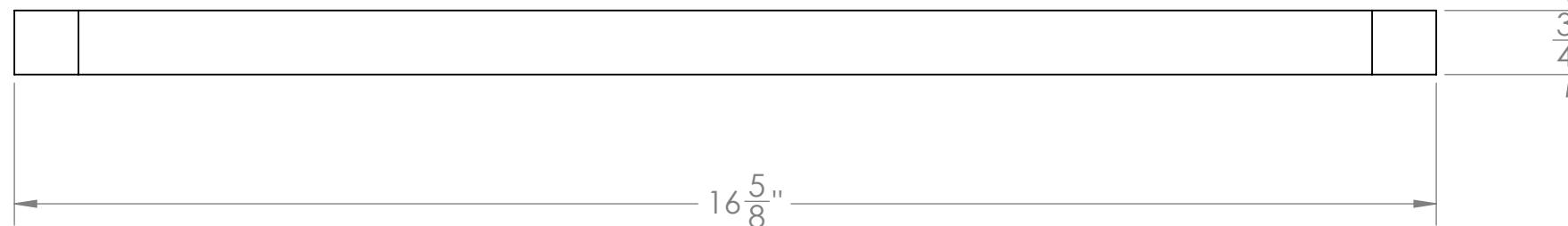
NOTES:  
 1. MATERIAL: Pine  
 2. REMOVE ALL SHARP EDGES



|             |     |             |
|-------------|-----|-------------|
| 1073        | -   | FRONT TOP   |
| PART NUMBER | REV | DESCRIPTION |

|  |  |  |                         |  |
|--|--|--|-------------------------|--|
| UNLESS OTHERWISE SPECIFIED<br>DO NOT SCALE DRAWING<br>INTERPRET DIMENSIONS AND TOLERANCES<br>PER ASME Y14.5-2018<br>DIMENSIONS ARE IN INCHES           |  | SolidWorks MAINTAINED DATA<br>CHANGES SHALL BE INCORPORATED<br>ELECTRONICALLY BY THE DESIGN ACTIVITY |                         | TITLE<br> HONEY BEE RESEARCH CENTRE<br>THE UNIVERSITY OF GUELPH |
| PROPRIETARY<br>NO PART OF THIS DOCUMENT MAY BE REPRODUCED,<br>STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN<br>ANY FORM, WITHOUT WRITTEN PERMISSION. |  |  |                         |  |
| CUSTOMER<br>BEE KEEPERS  |  | PROJECT<br>HIVE PRODUCTS   |                         |  |
| DRAWN BY<br>F. FULKERSON<br>DATE<br>3/29/2024  |  | CHECKED BY<br>P.G. KELLY<br>DATE<br>3/29/2024  |                         |  |
| APPROVED<br>P.G. KELLY<br>DATE<br>3/29/2024  |  | SIZE<br><b>B</b>   | DRAWING NO<br>10017 2 - | REVISION<br>-  |
|  |  | SCALE<br>1:2   | WEIGHT<br>0.209 lbs     | SHEET 16 OF 20   |

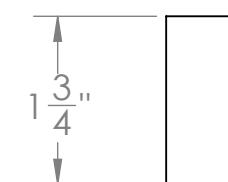
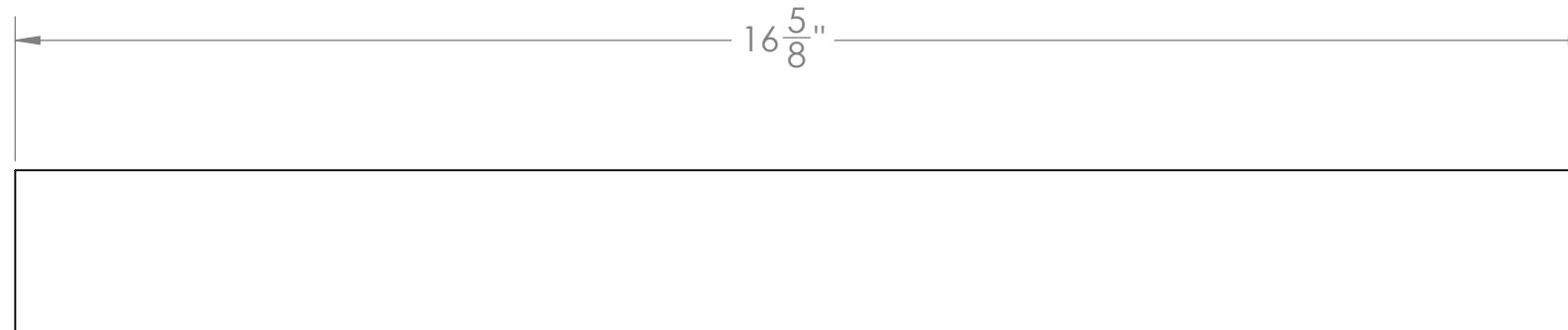
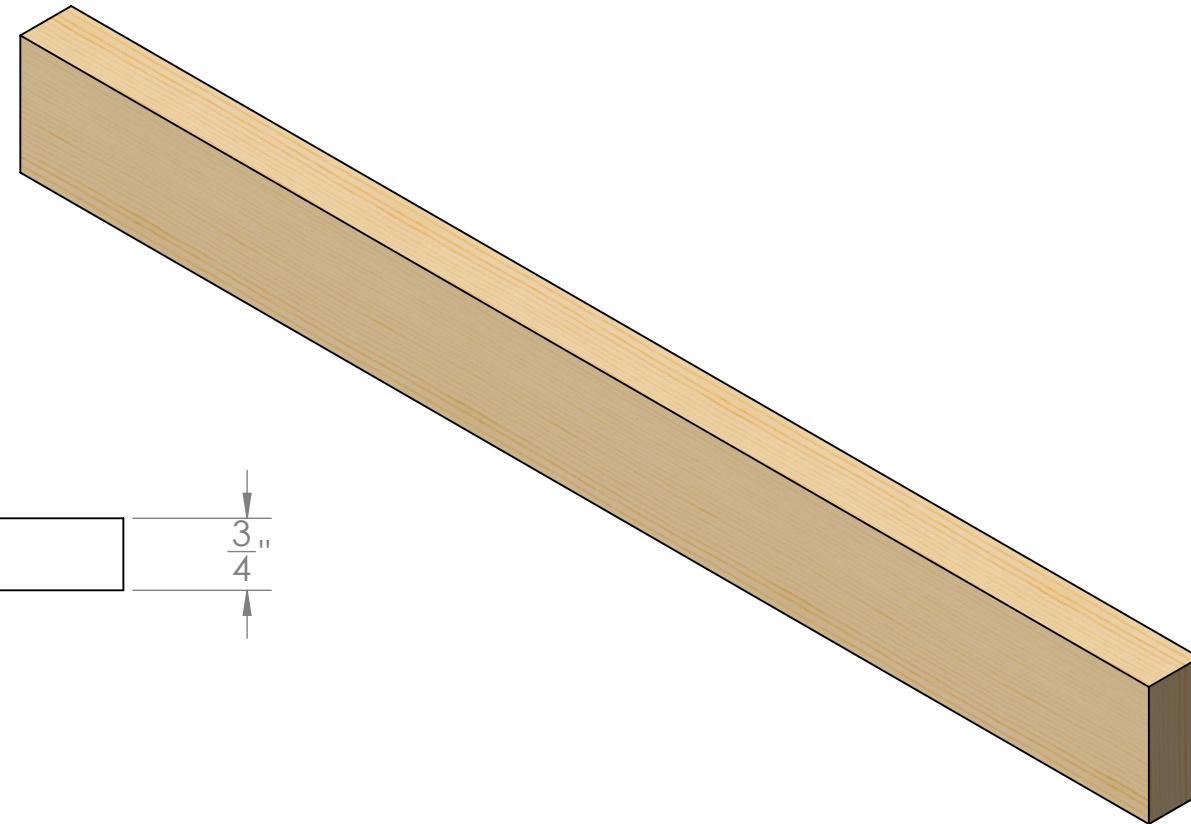
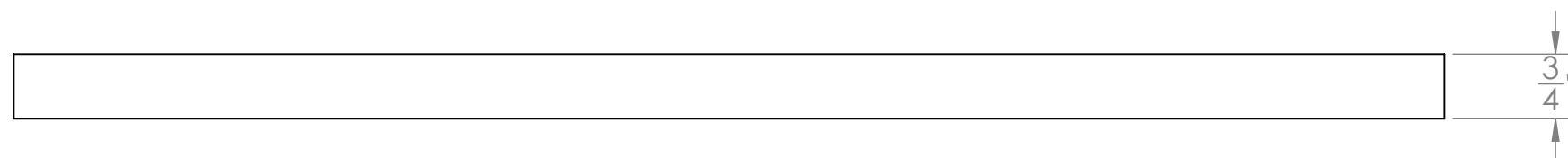
NOTES:  
 1. MATERIAL: Pine  
 2. REMOVE ALL SHARP EDGES



|             |     |              |
|-------------|-----|--------------|
| 1074        | -   | FRONT BOTTOM |
| PART NUMBER | REV | DESCRIPTION  |

|  |  |  |  |  |   |                |  |
|--|--|--|--|--|---|----------------|--|
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| PROJECT<br>HIVE PRODUCTS   |  |  |  |  |   |                |  |
| DRAWN BY<br>F. FULKERSON<br>DATE<br>3/29/2024  |  | DRAWN BY<br>P.G. KELLY<br>DATE<br>3/29/2024  |  | SIZE<br><b>B</b> DRAWING NO<br><b>10017 2</b> -  |   |                |  |
| APPROVED<br>P.G. KELLY<br>DATE<br>3/29/2024  |  | APPROVED<br>P.G. KELLY<br>DATE<br>3/29/2024  |  | SCALE<br>1:2   | WEIGHT<br>0.390 lbs                                   | SHEET 17 OF 20 |  |

NOTES:  
 1. MATERIAL: Pine  
 2. 2 PCS REQ'D  
 3. REMOVE ALL SHARP EDGES



|             |     |               |
|-------------|-----|---------------|
| 1070        | -   | DRAWER RUNNER |
| PART NUMBER | REV | DESCRIPTION   |

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

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CUSTOMER  
 BEE KEEPERS  
 PROJECT  
 HIVE PRODUCTS

THIRD ANGLE PROJECTION



DRAWN BY  
 F. FULKERSON DATE  
 3/29/2024  
 CHECKED BY  
 P.G. KELLY DATE  
 3/29/2024  
 APPROVED  
 P.G. KELLY DATE  
 3/29/2024



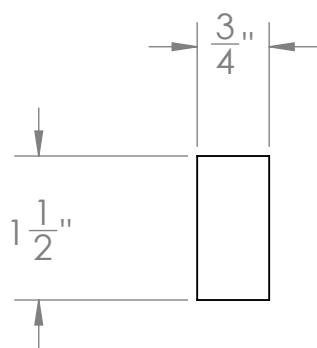
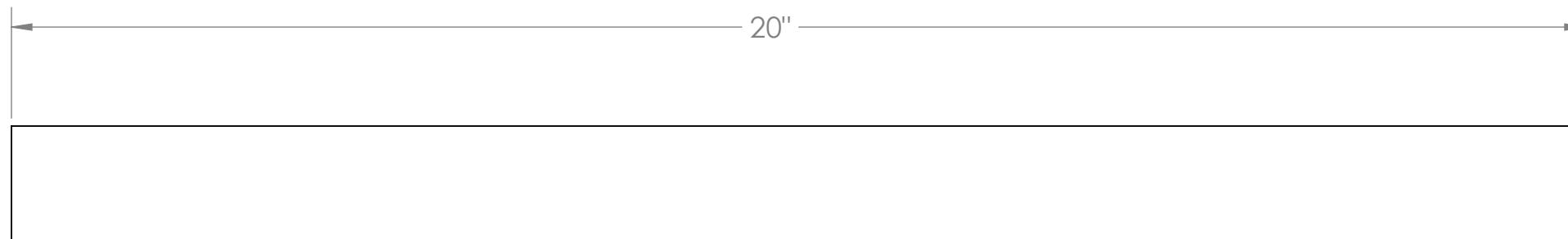
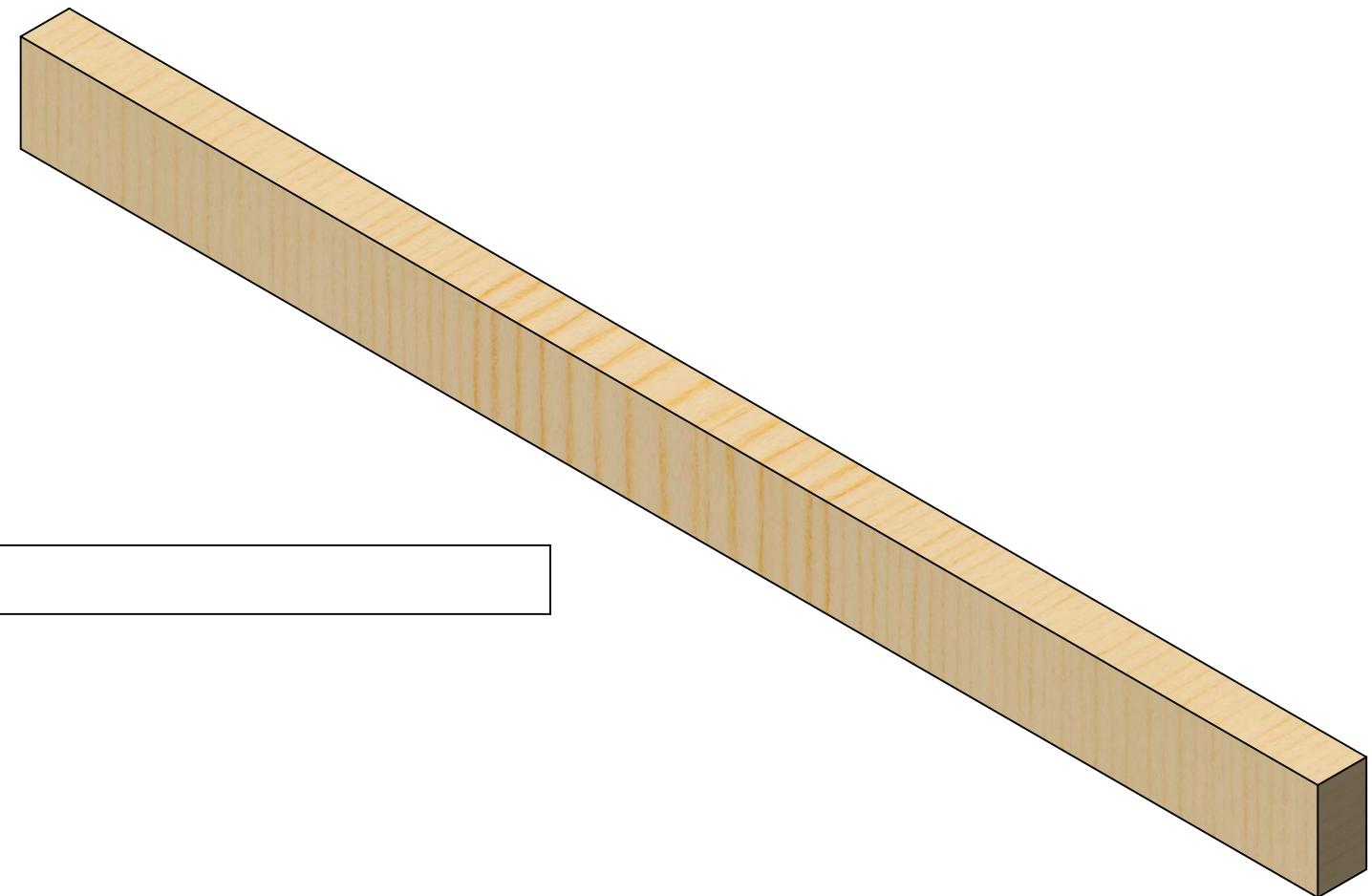
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 THE UNIVERSITY OF GUELPH

## DRAWER RUNNER

10017 2 -

SIZE DRAWING NO  
**B** 1:2 WEIGHT 0.268 lbs SHEET 18 OF 20  
 REVISION

NOTES:  
 1. MATERIAL: Pine  
 2. 2 PCS REQ'D  
 3. REMOVE ALL SHARP EDGES



|             |     |             |
|-------------|-----|-------------|
| 1071        | -   | LEG         |
| PART NUMBER | REV | DESCRIPTION |

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



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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

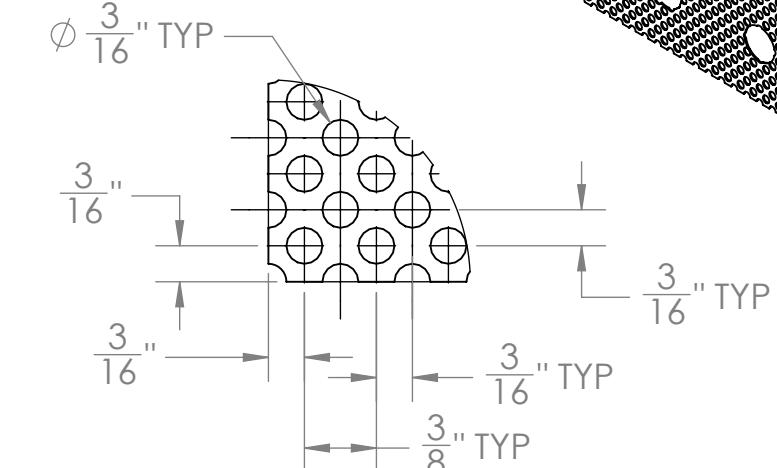
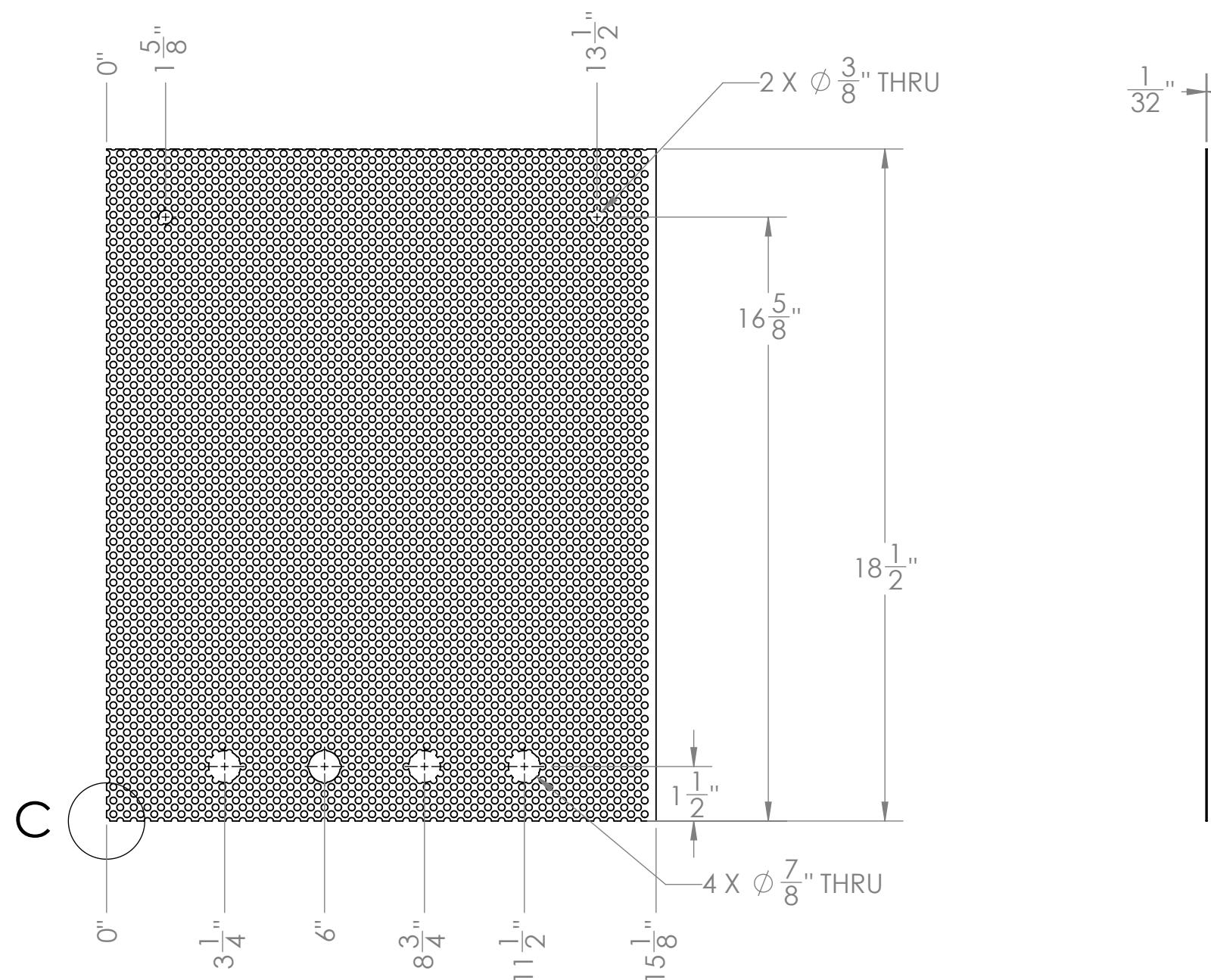


HONEY BEE RESEARCH CENTRE  
 THE UNIVERSITY OF GUELPH

**LEG**

|      |            |           |   |                |
|------|------------|-----------|---|----------------|
| SIZE | DRAWING NO | 10017     | 2 | REVISION       |
| B    | 1:2        | 0.276 lbs |   | SHEET 19 OF 20 |

NOTES:  
1. MATERIAL: AISI 304 STAINLESS STEEL or ALUMINIUM  
2. REMOVE ALL SHARP EDGES  
3. HOLES LOCATIONS ARE APPROXIMATE,  
EXISTING HOLE CENTER LOCATIONS MAY BE USED.



DETAIL C

SCALE 1 : 1

|             |     |                  |
|-------------|-----|------------------|
| 1080        | 01  | STRIPPING SCREEN |
| PART NUMBER | REV | DESCRIPTION      |

UNLESS OTHERWISE SPECIFIED  
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INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5-2018  
DIMENSIONS ARE IN INCHES

THIRD ANGLE PROJECTION



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CUSTOMER  
BEE KEEPERS  
PROJECT  
HIVE PRODUCTS

DRAWN BY  
F. FULKERSON  
DATE  
3/29/2024  
CHECKED BY  
P.G. KELLY  
DATE  
3/29/2024  
APPROVED  
P.G. KELLY  
DATE  
3/29/2024



TITLE

HONEY BEE RESEARCH CENTRE  
THE UNIVERSITY OF GUELPH

STRIPPING SCREEN

SIZE DRAWING NO  
B 10017 2 -  
SCALE 1:4  
WEIGHT 1.535 lbs  
SHEET 20 OF 20