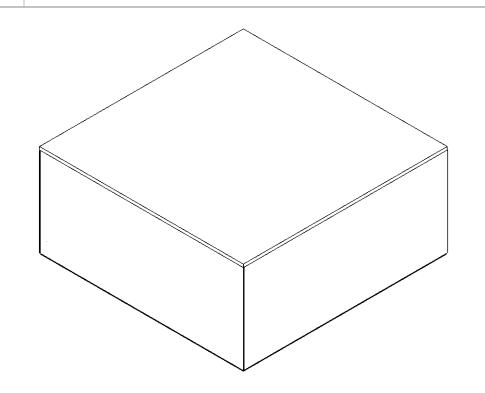
| ITEM NO. | PART NUMBER | QTY. |
|----------|-------------|------|
| 1 | TE-19102-01 | 4 |
| 2 | TE-19102-02 | 5 |
| 3 | TE-19102-03 | 8 |
| 4 | TE-19102-04 | 1 |
| 5 | TE-19102-05 | 3 |
| 6 | TE-19102-06 | 4 |

| | _ |
|-------------------------------------|------------|
| Material | QTY |
| 23/32" (3/4") A/C or CDX Plywood | 0.5 sheet |
| 1/8" Hardboard | 0.75 sheet |
| 2"x 4"x 8" | 8 |
| 1.25" wood screws | ~40 |
| 2.5" wood screws | ~60 |

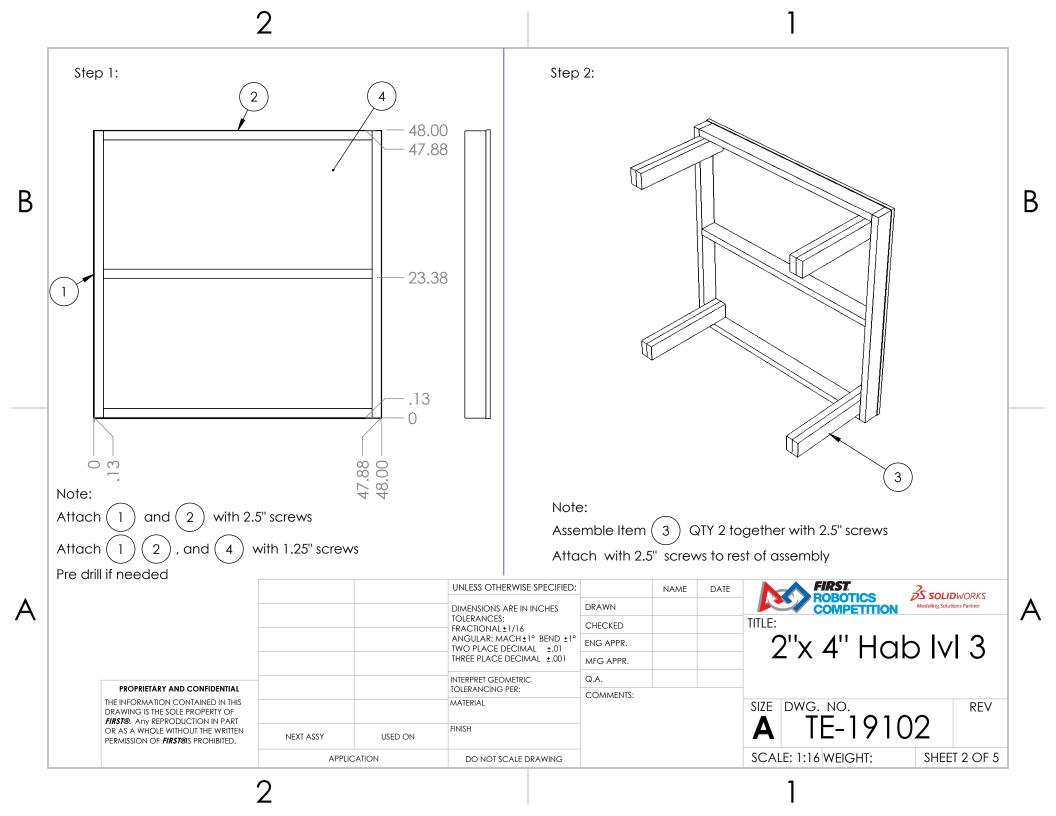


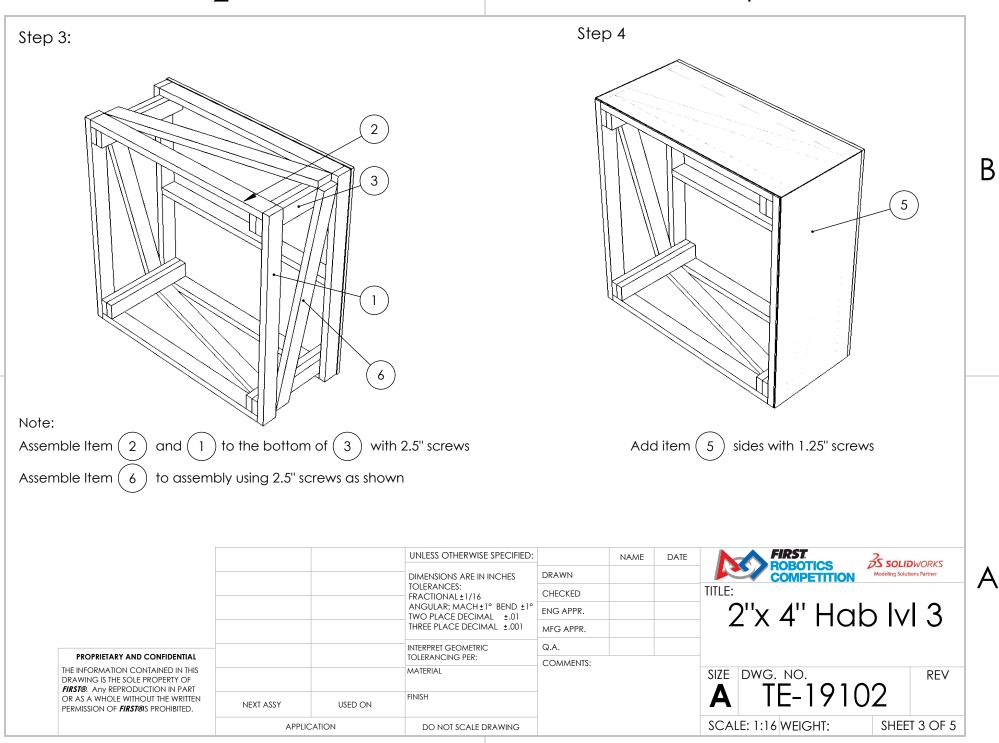
| | | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | FIRST. POROTICS 25 SOLIDWORKS |
|--|-----------|---------|--|-----------|------|------|--|
| | | | DIMENSIONS ARE IN INCHES | DRAWN | | | COMPETITION Modeling Solutions Partner |
| - | | | TOLERANCES: FRACTIONAL±1/16 | CHECKED | | | TITLE: |
| | | | ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 | ENG APPR. | | | 2"x 4" Hab IvI 3 |
| | | | THREE PLACE DECIMAL ±.001 | MFG APPR. | | | ZXTIMDIVIO |
| | | | INTERPRET GEOMETRIC | Q.A. | | | |
| PROPRIETARY AND CONFIDENTIAL | | | TOLERANCING PER: | COMMENTS: | | | |
| THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST®. ANY REPRODUCTION IN PART | | | MATERIAL | | | | SIZE DWG. NO. |
| OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <i>FIRST</i> ® IS PROHIBITED. | NEXT ASSY | USED ON | FINISH | | | | A TE-19102 |
| | APPLIC | CATION | DO NOT SCALE DRAWING | | | | SCALE: 1:16 WEIGHT: SHEET 1 OF 5 |

A

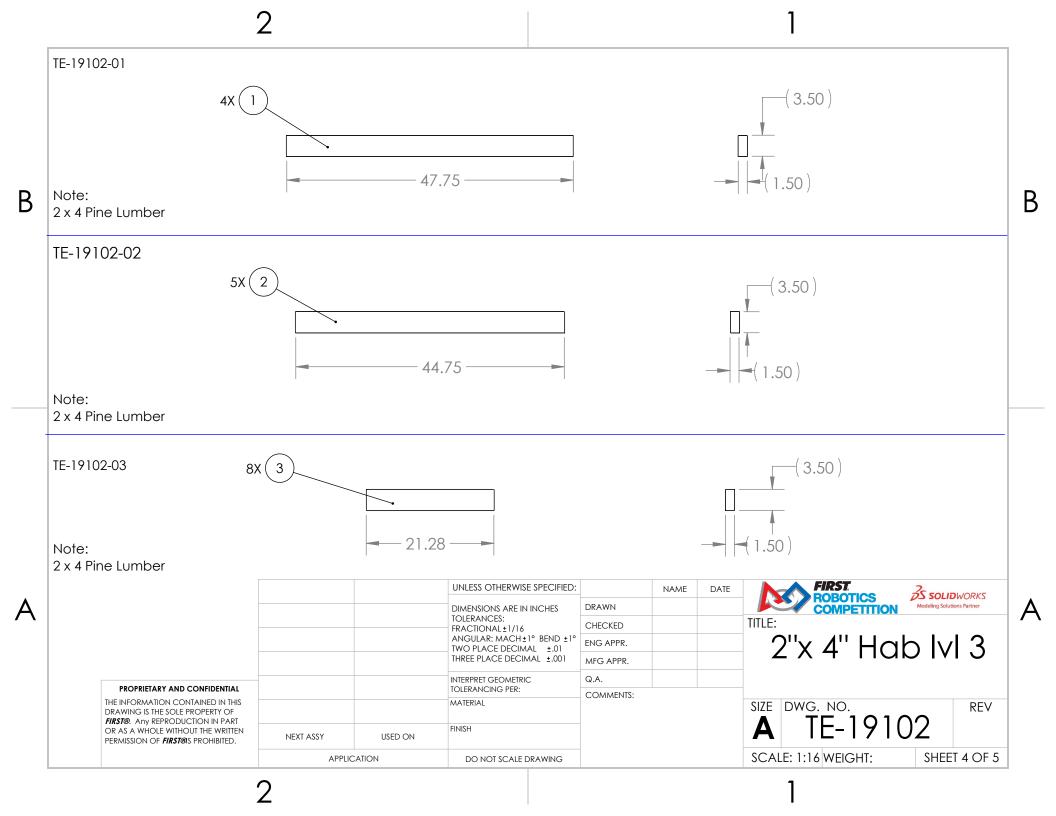
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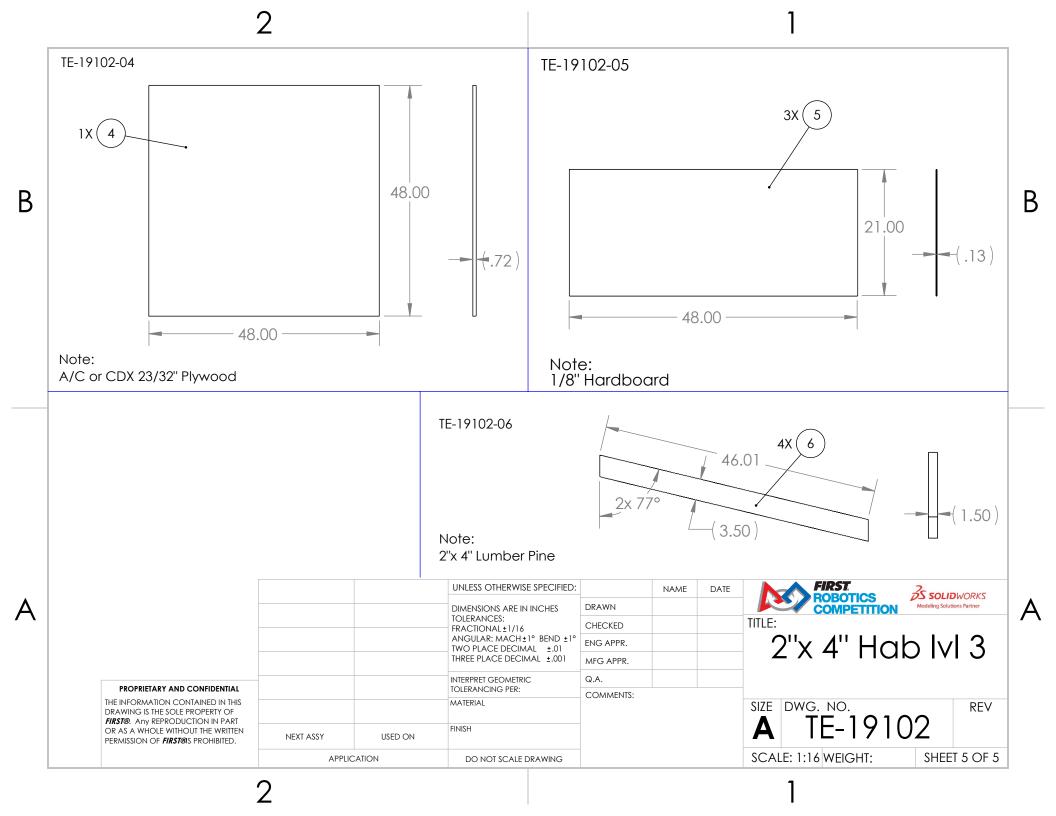
2





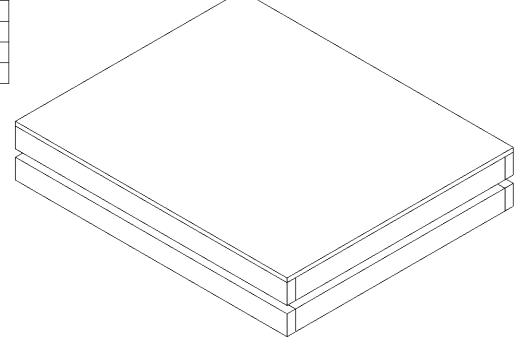
В





| ITEM NO. | PART NUMBER | QTY. |
|----------|-------------|------|
| 1 | TE-19103-01 | 1 |
| 2 | TE-19103-02 | 8 |
| 3 | te-19103-03 | 4 |
| 4 | TE-19103-04 | 5 |

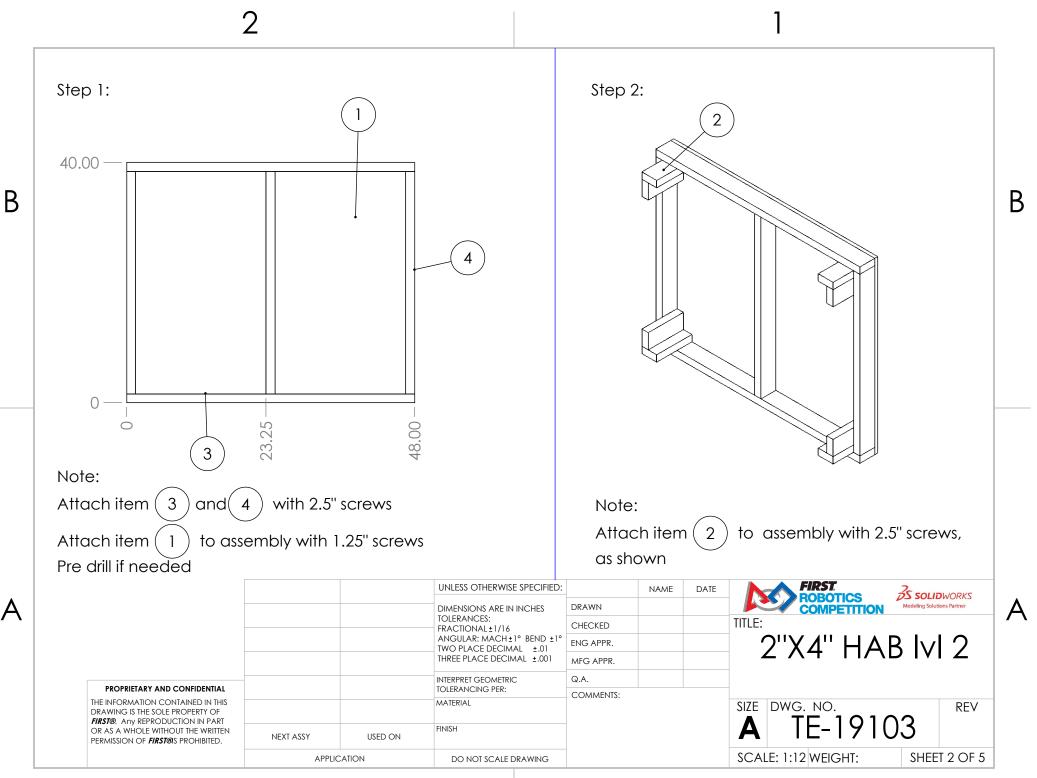
| Material | QTY |
|-------------------------------------|-----------|
| 23/32" (3/4") A/C or CDX Plywood | 0.5 sheet |
| 2"x 4"x 8' | 5 |
| 1.25" wood screws | ~20 |
| 2.5" wood screws | ~48 |



В

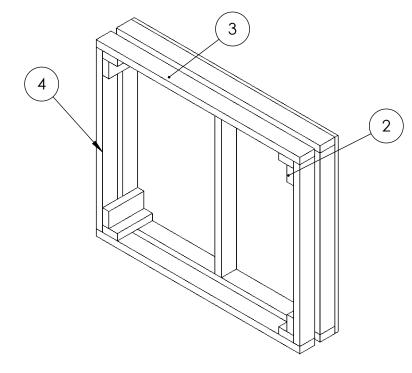
Note: To build the entire Hab, build QTY 2 of the TE-19103

| | | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | FIRST. 2- |
|--|-----------|---------|--|-----------|------|------|---|
| | | | DIMENSIONS ARE IN INCHES | DRAWN | | | ROBOTICS COMPETITION Solid Solutions Partner |
| | | | TOLERANCES: FRACTIONAL±1/16 | CHECKED | | | TITLE: |
| | | | ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 | ENG APPR. | | | 2"X4" HAB IVI 2 |
| | | | THREE PLACE DECIMAL ±.001 | MFG APPR. | | | |
| PROPRIETARY AND CONFIDENTIAL | | | INTERPRET GEOMETRIC | Q.A. | | | |
| THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST®. ANY REPRODUCTION IN PART | | | TOLERANCING PER: MATERIAL | COMMENTS: | | | SIZE DWG. NO. REV |
| OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED. | NEXT ASSY | USED ON | FINISH | | | | A TE-19103 |
| | APPLIC | CATION | DO NOT SCALE DRAWING | | | | SCALE: 1:12 WEIGHT: SHEET 1 OF |



Step 3:

В



Note:

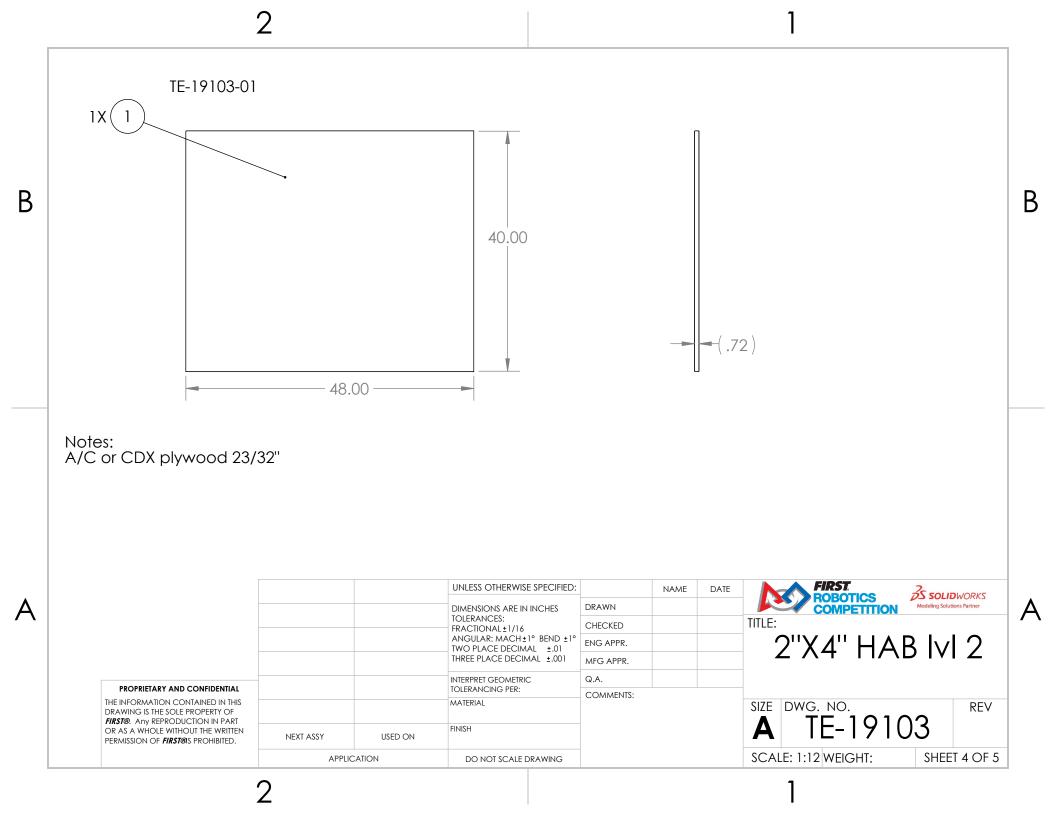
Attach item 4 and 3 to the lower part of item 2 with pre drilled 2.5" screw

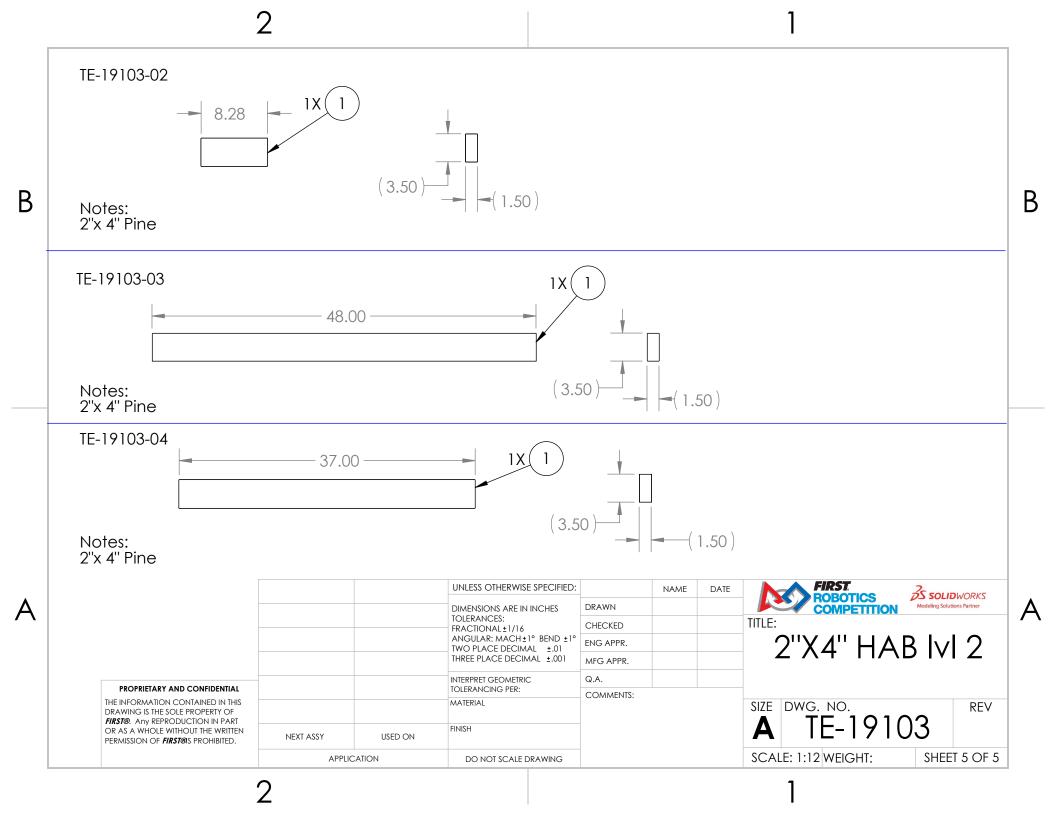
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| | | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | FIRST. | S SOLIDWORKS |
|--|-----------|---------|--|-----------|------|------|---------------------|----------------------------|
| | | | DIMENSIONS ARE IN INCHES | DRAWN | | | | Modeling Solutions Partner |
| | | | TOLERANCES: FRACTIONAL±1/16 | CHECKED | | | TITLE: | |
| | | | ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 | ENG APPR. | | | 2"X4" HAB | M 2 |
| | | | THREE PLACE DECIMAL ±.001 | MFG APPR. | | | | 1 4 1 7 |
| DDGDDIFTA DV AND GONFIDENTIAL | | | INTERPRET GEOMETRIC | Q.A. | | | | |
| PROPRIETARY AND CONFIDENTIAL | | | TOLERANCING PER: | COMMENTS: | | | | |
| THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST® . Any REPRODUCTION IN PART | | | MATERIAL | | | | SIZE DWG. NO. | REV |
| OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <i>FIRST®</i> S PROHIBITED. | NEXT ASSY | USED ON | FINISH | | | | A TE-19103 | 3 |
| | APPLIC | CATION | DO NOT SCALE DRAWING | | | | SCALE: 1:12 WEIGHT: | SHEET 3 OF 5 |

2

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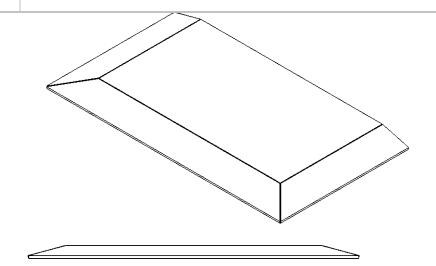


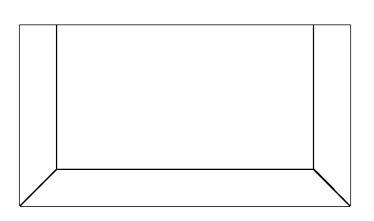


| ITEM NO. | PART NUMBER | QTY. |
|----------|-------------|------|
| 1 | TE-19105-01 | 1 |
| 2 | TE-19105-02 | 2 |
| 3 | TE-19105-03 | 1 |
| 4 | TE-19105-04 | 1 |
| 5 | TE-19105-05 | 4 |
| 6 | TE-19105-06 | 2 |
| 7 | TE-19105-07 | 2 |

Α

| Material | QTY |
|-------------------------------------|---------|
| 23/32" (3/4") A/C or CDX Plywood | 1 sheet |
| 2''x 4''x 8' Lumber Pine | 5 |
| 1.25" Wood screw | ~40 |
| 2.5" wood screw | ~30 |



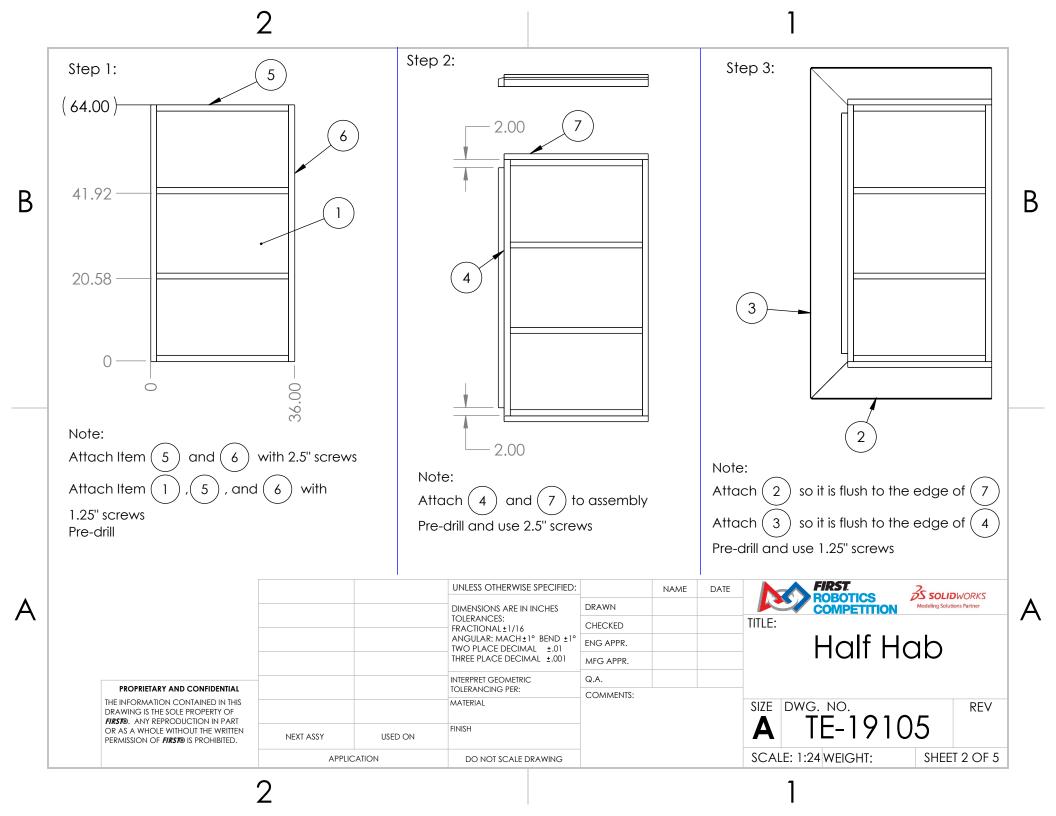


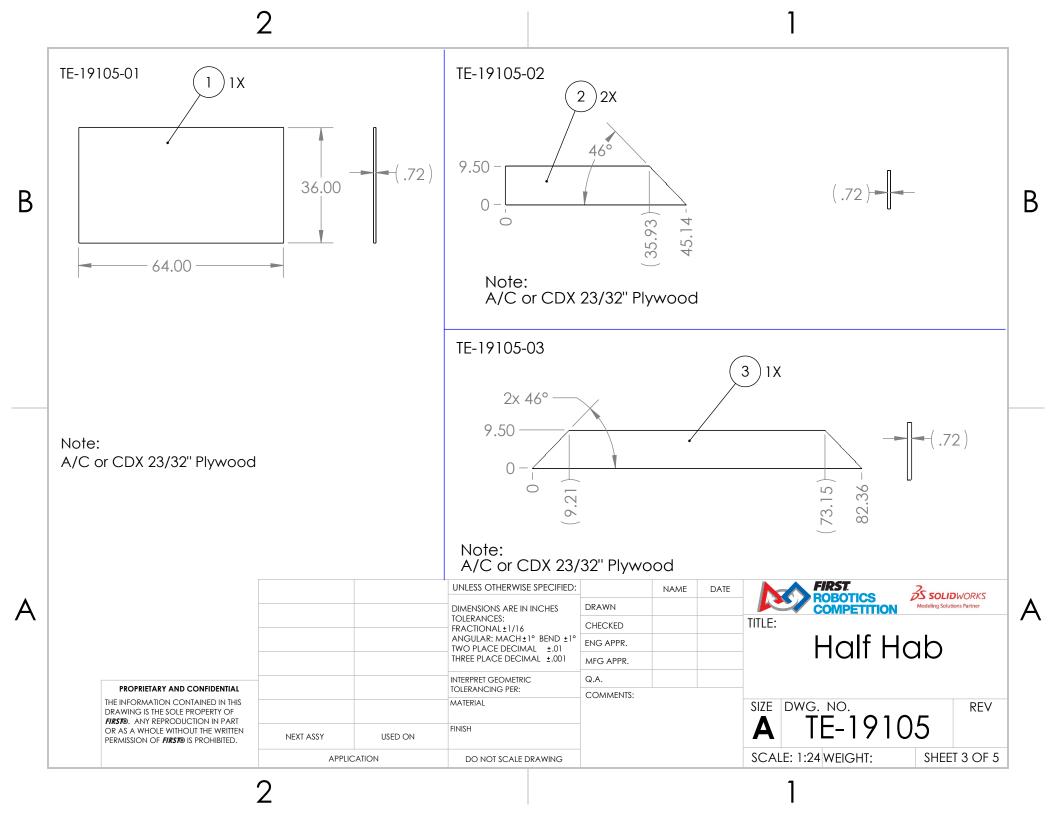
| | | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | FIRST. ROBOTICS 25 SOLIDWORKS |
|--|-----------|---------|--|-----------|------|------|--|
| | | | DIMENSIONS ARE IN INCHES | DRAWN | | | COMPETITION Modeling Solutions Partner |
| _ | | | TOLERANCES: FRACTIONAL ± 1/16 | CHECKED | | | TITLE: |
| | | | ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 | ENG APPR. | | | Half Hab |
| | | | THREE PLACE DECIMAL ±.001 | MFG APPR. | | | Hallitab |
| | | | INTERPRET GEOMETRIC | Q.A. | | | |
| PROPRIETARY AND CONFIDENTIAL | | | TOLERANCING PER: | COMMENTS: | | | |
| THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST®. ANY REPRODUCTION IN PART | | | MATERIAL | | | | SIZE DWG. NO. REV |
| OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED. | NEXT ASSY | USED ON | FINISH | | | | A TE-19105 |
| | APPLIC | CATION | DO NOT SCALE DRAWING | | | | SCALE: 1:24 WEIGHT: SHEET 1 OF 5 |

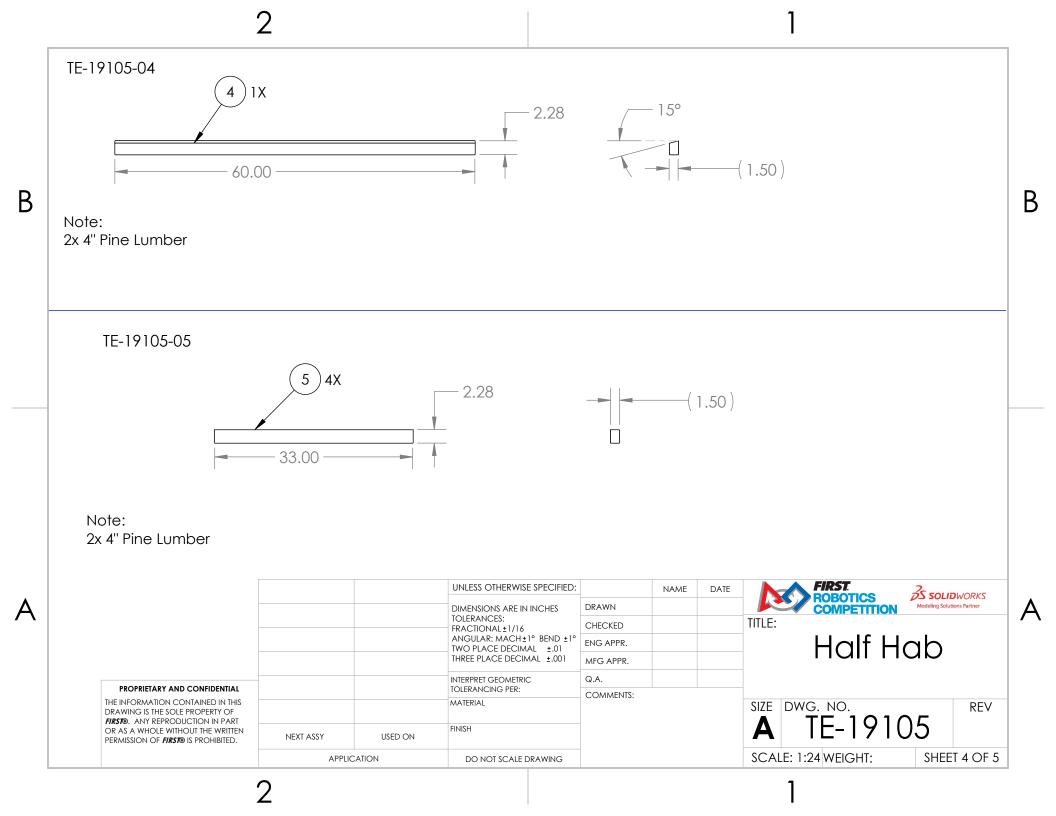
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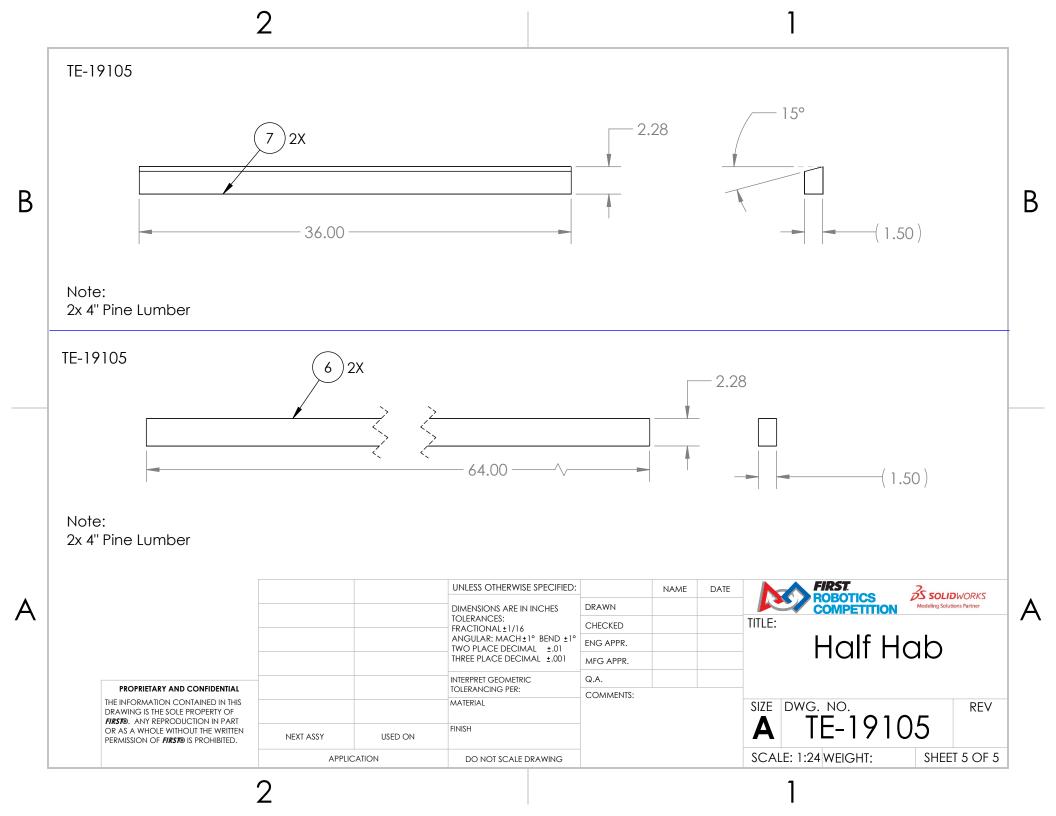
1

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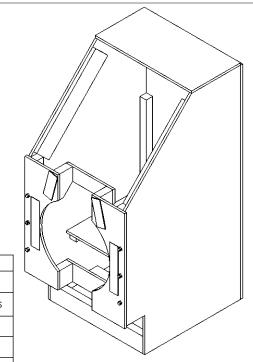






| ITEM NO. | PART NUMBER | QTY. |
|----------|-----------------|------|
| 1 | TE-19106-01 | 2 |
| 2 | TE-19106-02 | 1 |
| 3 | TE-19106-03 | 1 |
| 4 | TE-19106-04 | 2 |
| 5 | TE-19106-05 | 1 |
| 6 | TE-19106-06 | 4 |
| 7 | TE-19106-07 | 6 |
| 8 | TE-19106-08 | 2 |
| 9 | TE-19106-09 | 2 |
| 10 | TE-19106-10 | 3 |
| 11 | TE-19106-11 | 1 |
| 12 | TE-19106-12 | 2 |
| 13 | TE-19106-13 | 2 |
| 14 | TE-19106-14 | 1 |
| 15 | TE-19106-15 | 2 |
| 16 | TE-19106-18 | 2 |
| 17 | TE-19106-19 | 2 |
| 18 | Tee nut .375_16 | 6 |
| 19 | hex nut375_16 | 6 |
| 20 | hex375_16625 | 6 |

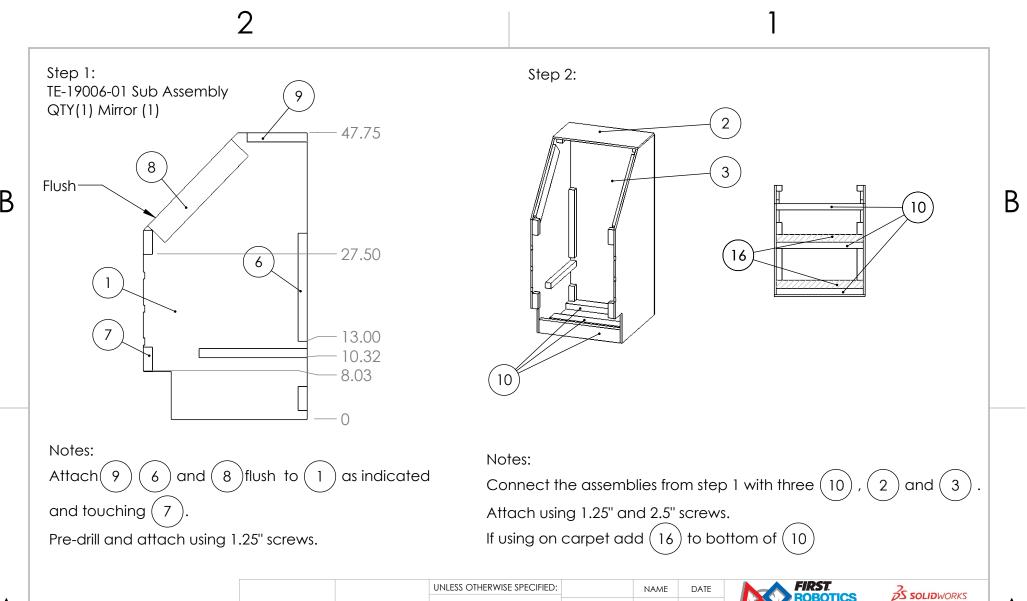
| .5sheets |
|-------------|
| 25 sheets |
| 20 31 10013 |
| 1.25 |
| 1 |
| 6 |
| 6 |
| 6 |
| 80 |
| 20 |
| 11" |
| 63.5" |
| |



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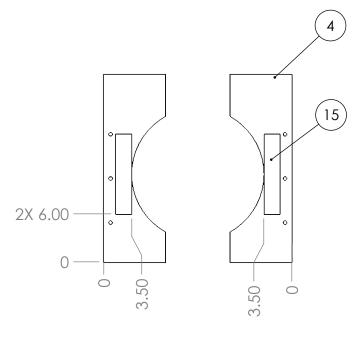
| | | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | FIRST. ROBOTICS 25 SOLIDWORKS | | |
|--|-----------|---------|--------------------------------|-----------|------|------|---|---|--|
| | | | DIMENSIONS ARE IN INCHES | DRAWN | | | ROBOTICS COMPETITION SOLIDWORKS Modeling Solutions Partner | | |
| | | | TOLERANCES: FRACTIONAL±1/16 | CHECKED | | | TITLE: | 7 | |
| | | | TWO PLACE DECIMAL ±.01 | ENG APPR. | | | Single Bay Side | | |
| | | | THREE PLACE DECIMAL ±.001 | MFG APPR. | | | single bay side | | |
| | | | INTERPRET GEOMETRIC | Q.A. | | | | | |
| PROPRIETARY AND CONFIDENTIAL | | | TOLERANCING PER: | COMMENTS: | | | | | |
| THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST®. ANY REPRODUCTION IN PART | | | MATERIAL | | | | SIZE DWG. NO. | | |
| OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED. | NEXT ASSY | USED ON | FINISH | | | | A TE-19106 | | |
| | APPLI | CATION | DO NOT SCALE DRAWING | | | | SCALE: 1:24 WEIGHT: SHEET 1 OF 1 | 2 | |



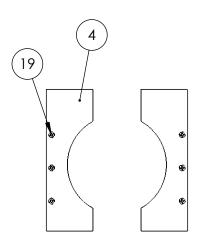
DRAWN DIMENSIONS ARE IN INCHES **TOLERANCES:** CHECKED FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1° Single Bay Side ENG APPR. TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.001 MFG APPR. INTERPRET GEOMETRIC Q.A. PROPRIETARY AND CONFIDENTIAL TOLERANCING PER: COMMENTS: THE INFORMATION CONTAINED IN THIS MATERIAL SIZE DWG. NO. REV DRAWING IS THE SOLE PROPERTY OF TE-19106 FIRST®. Any REPRODUCTION IN PART FINISH OR AS A WHOLE WITHOUT THE WRITTEN USED ON **NEXT ASSY** PERMISSION OF FIRST®IS PROHIBITED. Notes: SCALE: 1:24 WEIGHT: SHEET 2 OF 12 APPLICATION DO NOT SCALE DRAWING

2

Step 3:



Step 4:



Notes:

Attach(15) to (4)

(15) should be tangent to circular cutout.

Mirror for the second.

Notes:

Flip assembly from Step 3 over .

Insert (19) to all holes on (4), hammer in to seat.

A

В

| | | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | FIRST. ROBOTICS 25 SOLIDWORKS | | |
|--|-----------|---------|----------------------------------|-----------|------|------|---|--|--|
| | | | DIMENSIONS ARE IN INCHES | DRAWN | | | ROBOTICS COMPETITION SOLIDWORKS Modeling Solutions Partner | | |
| _ | | | TOLERANCES: FRACTIONAL ± 1/16 | CHECKED | | | TITLE: | | |
| | | | TWO PLACE DECIMAL ±.01 | ENG APPR. | | | Single Bay Side | | |
| | | | THREE PLACE DECIMAL ±.001 | MFG APPR. | | | single bay side | | |
| DDODDIFTA DV. AND. CONFIDENTIAL | | | INTERPRET GEOMETRIC | Q.A. | | | | | |
| PROPRIETARY AND CONFIDENTIAL | | | TOLERANCING PER: | COMMENTS: | | | | | |
| THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST®. Any REPRODUCTION IN PART | | | MATERIAL | | | | SIZE DWG. NO. | | |
| OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED. | NEXT ASSY | USED ON | FINISH | | | | A TE-19106 | | |
| | APPLIC | CATION | DO NOT SCALE DRAWING | 1 | | | SCALE: 1:24 WEIGHT: SHEET 3 OF 1 | | |

2

DO NOT SCALE DRAWING

2

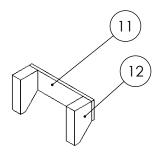
APPLICATION

1

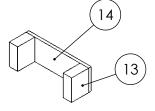
SCALE: 1:24 WEIGHT:

SHEET 4 OF 12

Step 6:



Step 7:



Notes:

Attach(12) to(11)

Pre-drill and attach using 1.25" long screws

Notes:

Attach(13) to(14)

Pre-drill and attach using 1.25" long screws

Α

В

| | | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | FIRST. ROBOTICS SOLIDWORKS | | |
|---|-------------|---------|--------------------------------|-----------|------|------|--|--|--|
| | | | DIMENSIONS ARE IN INCHES | DRAWN | | | COMPETITION Modeling Solutions Partner | | |
| | | | TOLERANCES: FRACTIONAL±1/16 | CHECKED | | | TITLE: | | |
| | | | IWO PLACE DECIMAL ±.01 | ENG APPR. | | | Single Bay Side | | |
| | | | | MFG APPR. | | | on gic bay side | | |
| DECORDIFIA BY AND CONFIDENTIAL | | | INTERPRET GEOMETRIC | Q.A. | | | | | |
| PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS | | | TOLERANCING PER: MATERIAL | COMMENTS: | | | | | |
| DRAWING IS THE SOLE PROPERTY OF | | | | | | | SIZE DWG. NO. | | |
| FIRST®. Any REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST®IS PROHIBITED. | NEXT ASSY | USED ON | FINISH | | | | A TE-19106 | | |
| | APPLICATION | | DO NOT SCALE DRAWING | | | | SCALE: 1:24 WEIGHT: SHEET 5 OF 12 | | |

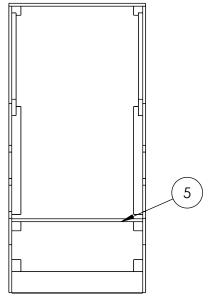
2

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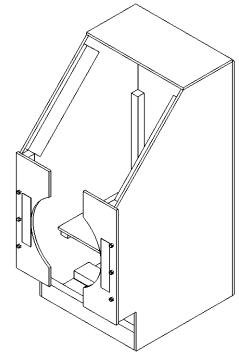


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Step 9:



.41



Notes:

Attach (5) flush to the cleats of step 2.

Pre drill and attach with 1.25" screws.

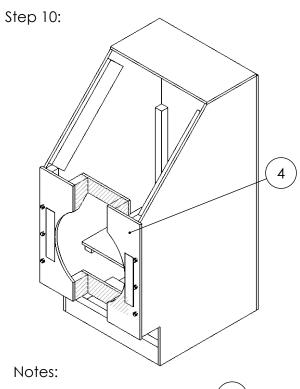
Notes:

Attach assemblies from Step 5 to Step 8 Pre drill and use 1.25" screws. Step 5 over hangs .41 on both sides.

A

| | | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | FIRST. ROBOTICS | S solidworks | | |
|--|-----------|---------|--------------------------------|-----------|------|------|--|---------------|--|--|
| | | | DIMENSIONS ARE IN INCHES | DRAWN | | | COMPETITION Modeling Solutions Partner | | | |
| | | | TOLERANCES: FRACTIONAL±1/16 | CHECKED | | | Single Bay Side | | | |
| | | | TWO PLACE DECIMAL ±.01 | ENG APPR. | | | | | | |
| | | | | MFG APPR. | | | Jiligic Day Jide | Side | | |
| | | | INTERPRET GEOMETRIC | Q.A. | | | | | | |
| PROPRIETARY AND CONFIDENTIAL | | | TOLERANCING PER: | COMMENTS: | | | | | | |
| THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST®. Any REPRODUCTION IN PART | | | MATERIAL FINISH | | | | SIZE DWG. NO. TE-19106 | | | |
| OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED. | NEXT ASSY | USED ON | | | | | | | | |
| | APPLIC | CATION | DO NOT SCALE DRAWING | | | | SCALE: 1:24 WEIGHT: | SHEET 6 OF 12 | | |

2



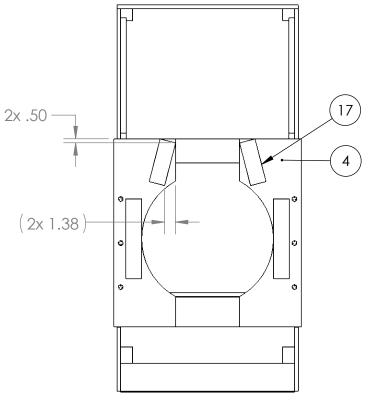
Attach Step 6 and Step 7 to (4)

Step 6 Flush to opening and to Top of (4

Step 7 Flush to opening and to bottom of (4

Pre drill and attach using 2.5" wood screws.

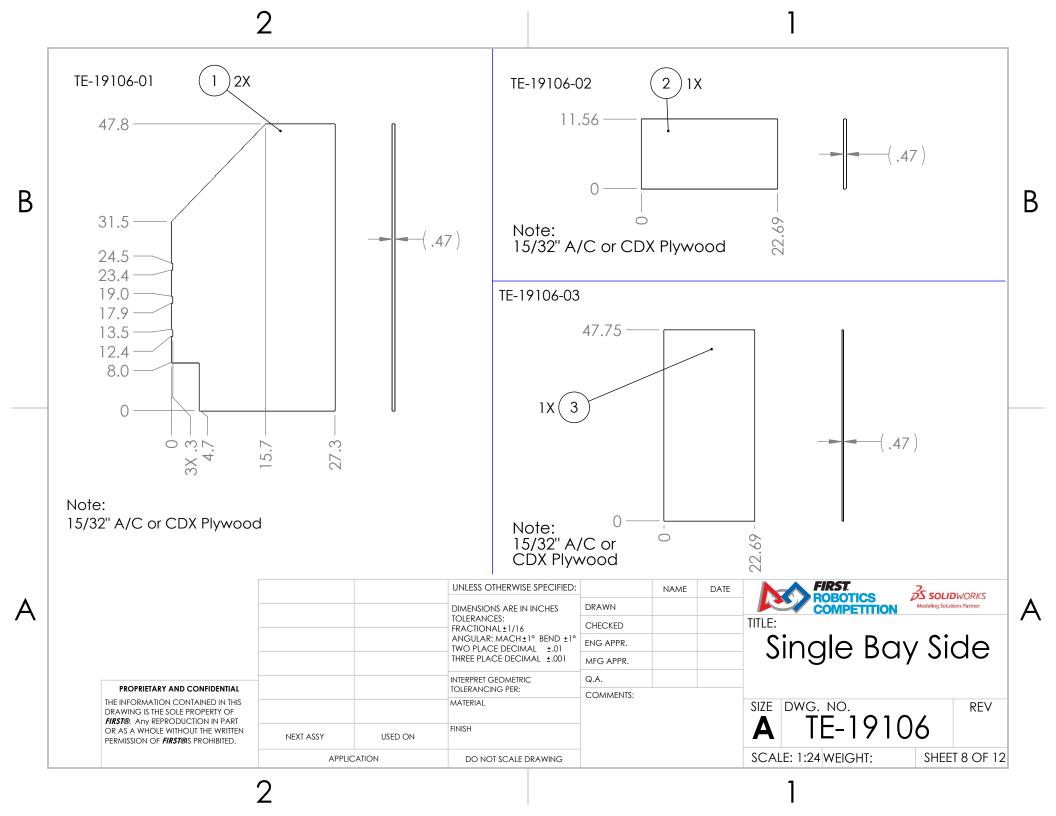
Step 11:

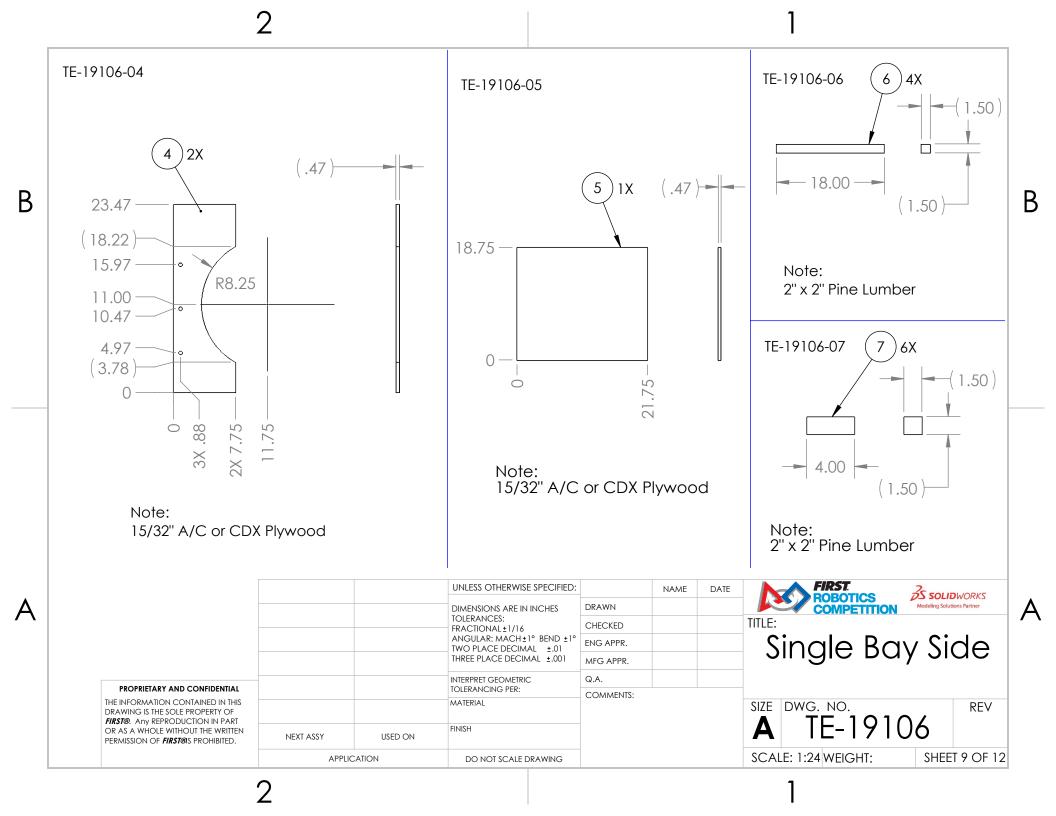


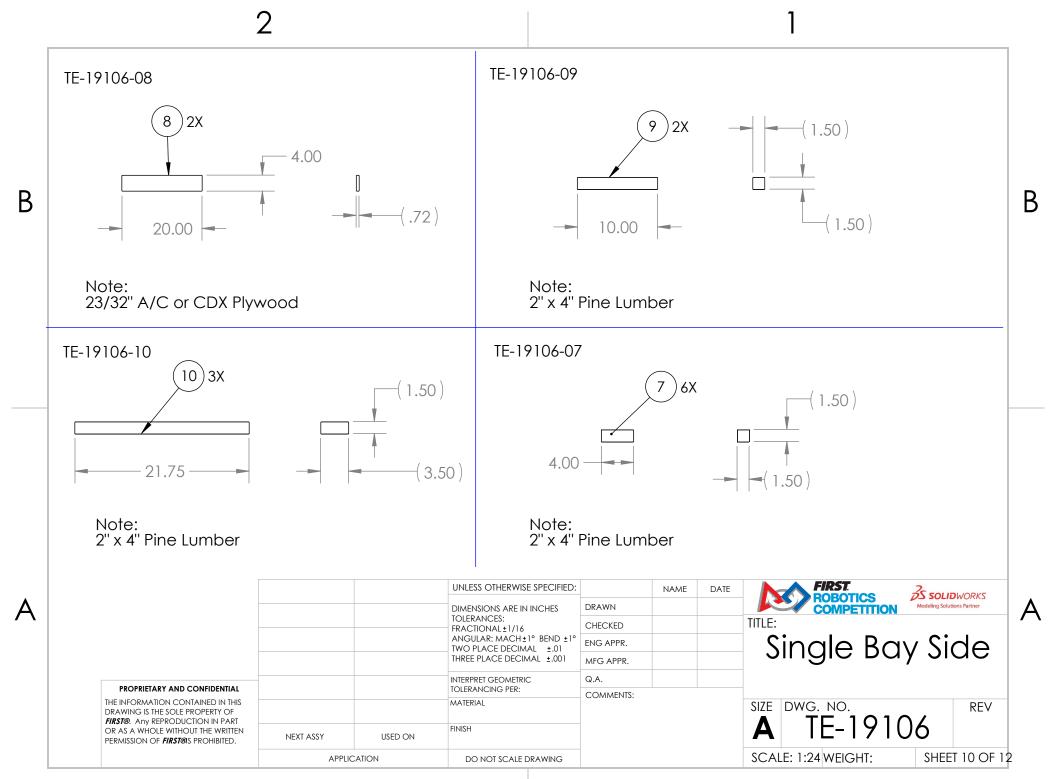
Notes:

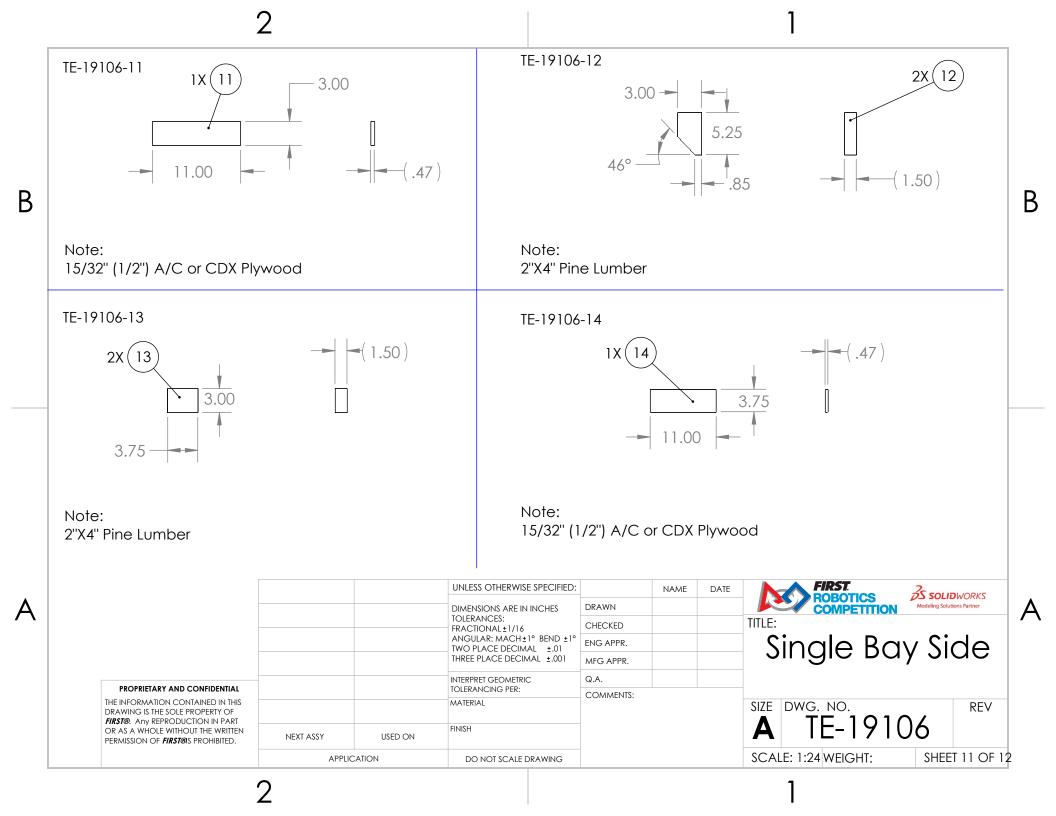
Attach (17)), mirror for the other side to (4

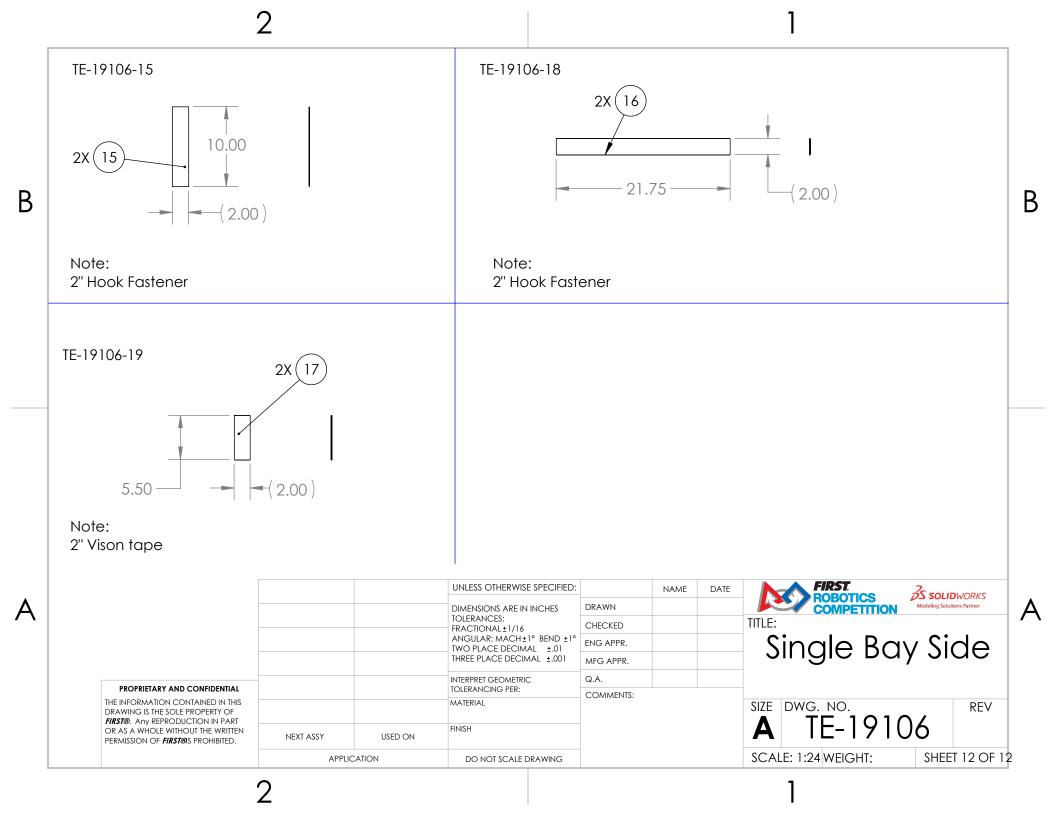
| | | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | FIRST. | 3S SOLID WORKS | | |
|--|-----------|---------|--|-----------|------|------|--|-----------------------|--|--|
| | | | DIMENSIONS ARE IN INCHES | DRAWN | | | COMPETITION Modeling Solutions Partner | | | |
| | | | TOLERANCES: FRACTIONAL±1/16 | CHECKED | | | TITLE: | | | |
| | | | ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 | ENG APPR. | | | Single Bay | v Side | | |
| | | | THREE PLACE DECIMAL ±.001 | MFG APPR. | | | on igic bay oras | y Jiac | | |
| PROPRIETARY AND CONFIDENTIAL | | | INTERPRET GEOMETRIC TOLERANCING PER: | Q.A. | | | | | | |
| THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST®, Any REPRODUCTION IN PART | | | MATERIAL | COMMENTS: | | | SIZE DWG. NO. | REV | | |
| OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED. | NEXT ASSY | USED ON | FINISH | | | | A TE-1910 | 16 | | |
| | APPLIC | CATION | DO NOT SCALE DRAWING | | | | SCALE: 1:24 WEIGHT: | SHEET 7 OF 12 | | |





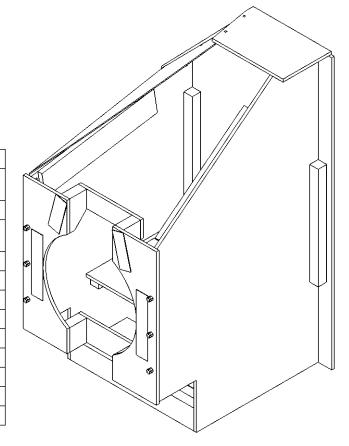






| ITEM NO. | PART NUMBER | QTY. |
|-------------|-----------------|------|
| 1 | TE-19107-01 | 1 |
| 2 | TE-19107-02 | 1 |
| 3 | TE-19107-03 | 1 |
| 4 | TE-19107-04 | 1 |
| 5 | TE-19107-05 | 1 |
| 6 | TE-19107-06 | 2 |
| 7 | TE-19107-07 | 1 |
| 8 | TE-19107-08 | 6 |
| 9 | TE-19107-09 | 2 |
| 10 | TE-19107-10 | 9 |
| 11 | TE-19107-11 | 3 |
| 12 | TE-19107-12 | 2 |
| 13 | TE-19107-13 | 4 |
| 14 | TE-19107-14 | 4 |
| 15 | TE-19107-15 | 2 |
| 16 | TE-19107-16 | 2 |
| 17 | TE-19107-19 | 2 |
| 18 | TE-19107-20 | 2 |
| 19 | Tee nut .375_16 | 6 |
| 20 | hex nut375_16 | 6 |
| 21 | hex375_16625 | 6 |

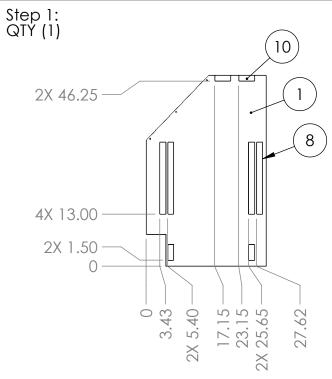
| Material QTY 15/32" (1/2") A/C or CDX Plywood 1.5 sheets 1/8" Hardboard .25 sheet 23/32"(3/4") A/C or CDX Plywood .125 sheet 2"x 2"x 8" 1.5 2"x 4"x 8" 1 TEE nut 3/8"-16 6 Hex Nut 3/8"-16 6 Hex Head 3/8"-16 x .75 6 2" Hook Fastener 63.5" 2" Vison Tape 11" 1.25" wood screws 50 2.5" wood screws 25 | | |
|---|-------------------------------------|------------|
| CDX Plywood 1/8" Hardboard 23/32"(3/4") A/C or CDX Plywood 2"x 2"x 8" 1.5 2"x 4"x 8" TEE nut 3/8"-16 Hex Nut 3/8"-16 Hex Head 3/8"-16 x .75 2" Hook Fastener 2" Vison Tape 1.25" wood screws 50 | | QTY |
| 23/32"(3/4") A/C or CDX Plywood .125 sheet 2"x 2"x 8" 1.5 2"x 4"x 8" 1 TEE nut 3/8"-16 6 Hex Nut 3/8"-16 6 Hex Head 3/8"-16 x .75 6 2" Hook Fastener 63.5" 2" Vison Tape 11" 1.25" wood screws 50 | 15/32" (1/2") A/C or CDX Plywood | 1.5 sheets |
| CDX Plywood 2"x 2"x 8" 1.5 2"x 4"x 8" 1 TEE nut 3/8"-16 Hex Nut 3/8"-16 Hex Head 3/8"-16 x .75 2" Hook Fastener 2" Vison Tape 1.25" wood screws 50 | | .25 sheet |
| 2"x 4"x 8" 1 TEE nut 3/8"-16 6 Hex Nut 3/8"-16 6 Hex Head 3/8"-16 x .75 6 2" Hook Fastener 63.5" 2" Vison Tape 11" 1.25" wood screws 50 | | .125 sheet |
| TEE nut 3/8"-16 6 Hex Nut 3/8"-16 6 Hex Head 3/8"-16 x .75 6 2" Hook Fastener 63.5" 2" Vison Tape 11" 1.25" wood screws 50 | 2"x 2"x 8' | 1.5 |
| Hex Nut 3/8"-16 6 Hex Head 3/8"-16 x .75 6 2" Hook Fastener 63.5" 2" Vison Tape 11" 1.25" wood screws 50 | 2"x 4"x 8" | 1 |
| Hex Head 3/8"-16 x .75 6 2" Hook Fastener 63.5" 2" Vison Tape 11" 1.25" wood screws 50 | TEE nut 3/8"-16 | 6 |
| 2" Hook Fastener 63.5" 2" Vison Tape 11" 1.25" wood screws 50 | Hex Nut 3/8"-16 | 6 |
| 2" Vison Tape 11" 1.25" wood screws 50 | Hex Head 3/8"-16 x .75 | 6 |
| 1.25" wood screws 50 | 2" Hook Fastener | 63.5" |
| | 2" Vison Tape | 11" |
| 2.5" wood screws 25 | 1.25" wood screws | 50 |
| | 2.5" wood screws | 25 |

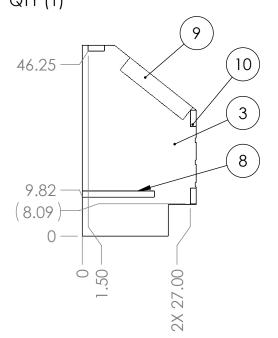


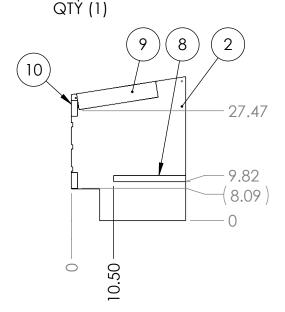
| | | | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | FIRST. ROBOTICS SOLIDWORKS | | |
|---|--|-----------|---------|--|-----------|------|------|--|--|--|
| | | | | DIMENSIONS ARE IN INCHES | DRAWN | | | COMPETITION Modeling Solutions Partner | | |
| ` | | | | TOLERANCES: FRACTIONAL±1/16 | CHECKED | | | TITLE: | | |
| | | | | ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 | ENG APPR. | | | Cargo Front | | |
| | | | | TURES BUT OF BEOUTER | MFG APPR. | | | Cargo i Torri | | |
| | | | | INTERPRET GEOMETRIC | Q.A. | | | Single | | |
| | PROPRIETARY AND CONFIDENTIAL | | | TOLERANCING PER: | COMMENTS: | | | | | |
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| | | APPLIC | CATION | DO NOT SCALE DRAWING | | | | SCALE: 1:24 WEIGHT: SHEET 1 OF 14 | | |

Α











Attach 10 8 to 1

Spacing between (8) is for 1/2" Plywood

Use a scrap piece of plywood help set spacing Pre-drill and use 1.25" wood screws

Note:

Attach 8 10 9 to 3

Pre-drill and use 1.25" wood screws

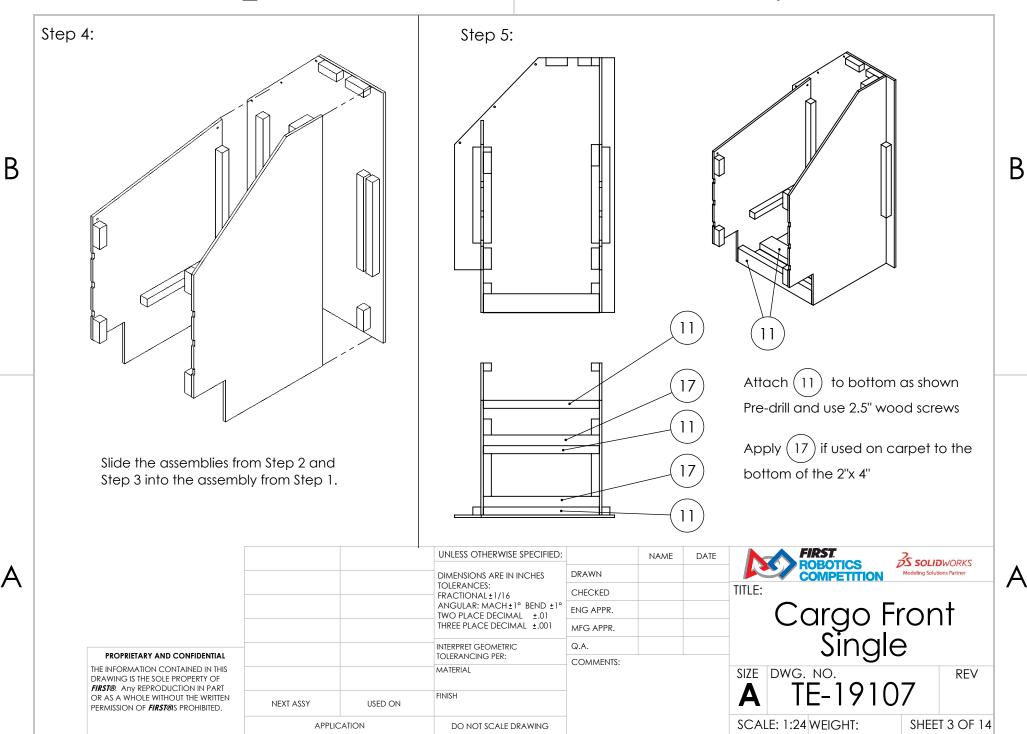
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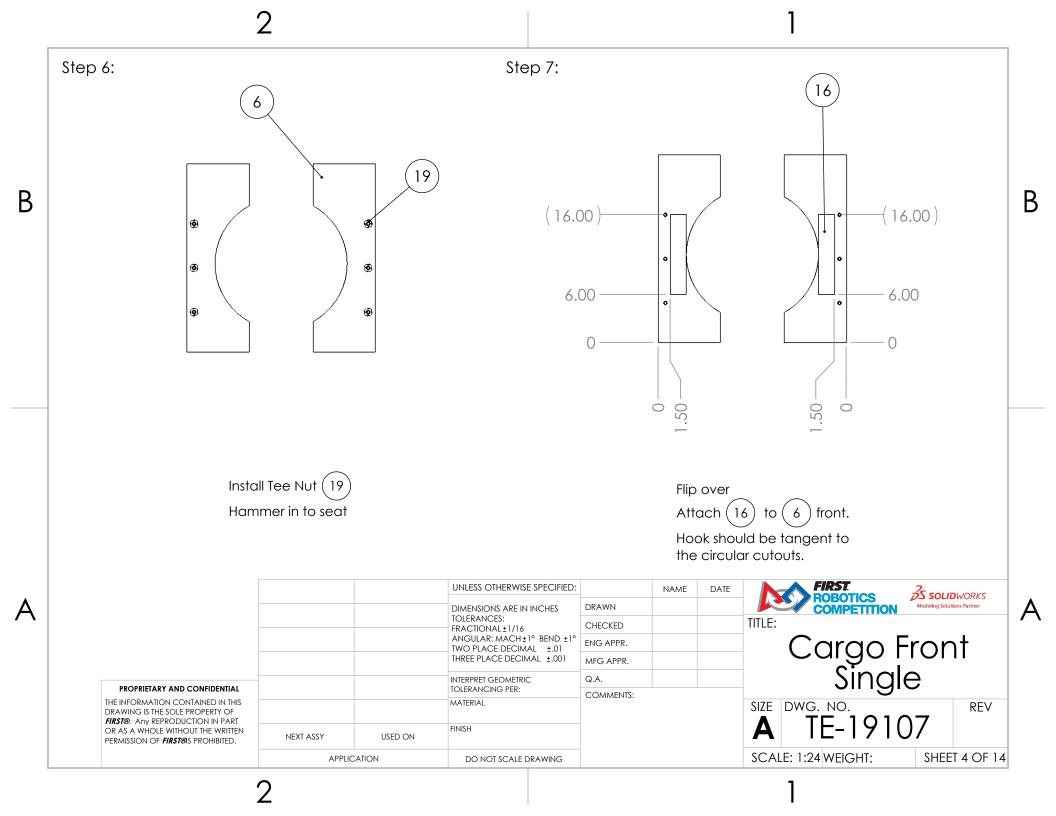
Attach (10)(9)(8) to (2)

Pre-drill and use 1.25" wood screws

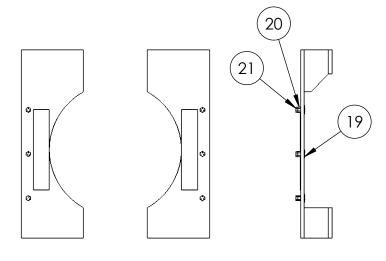
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|--|-----------|---------|---|-----------|------|------|------------------------|-------------------|--|
| | | | DIMENSIONS ARE IN INCHES | DRAWN | | | | Solutions Partner | |
| _ | | | TOLERANCES: FRACTIONAL±1/16 | CHECKED | | | Cargo Front Single | | |
| | | | IWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.001 INTERPRET GEOMETRIC TOLERANCING PER: | ENG APPR. | | | | | |
| | | | | MFG APPR. | | | | | |
| DRODDIFTA BY AND CONFIDENTIAL | | | | Q.A. | | | | | |
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| | APPLI | CATION | DO NOT SCALE DRAWING | | | | SCALE: 1:24 WEIGHT: SH | EET 2 OF 14 | |







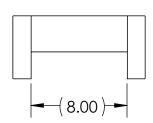


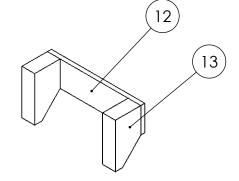
Note:

Attach(21) (20), then attach to (19)

Repeat for all instances

Step 9:



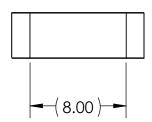


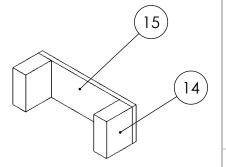
Note:

Attach (13) to (12) as shown

Pre-drill and use 1.25" screws

Step 10:





В

Α

Note:

Attach (14) to (15) as shown Pre-drill and use 1.25" screws

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|-----------|---------|--|----|--|--|--|
| | | DIMENSIONS ARE IN INCHES | DF | | | |
| | | TOLERANCES: FRACTIONAL±1/16 | Cł | | | |
| | | ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 | EN | | | |
| | | THREE PLACE DECIMAL ±.001 | MI | | | |
| | | INTERPRET GEOMETRIC | Q. | | | |
| | | TOLERANCING PER: | C | | | |
| | | MATERIAL | | | | |
| NEXT ASSY | USED ON | FINISH | | | | |
| APPLIC | CATION | DO NOT SCALE DRAWING | | | | |

| D: | | NAME | DATE | |
|----|-----------|------|------|-----|
| l° | DRAWN | | | |
| | CHECKED | | | TIT |
| | ENG APPR. | | | |
| | MFG APPR. | | | |
| | Q.A. | | | |
| | COMMENTS: | | | |
| | | | | SI |

ROBOTICS COMPETITION



Cargo Front Single

SIZE DWG. NO. TE-19107

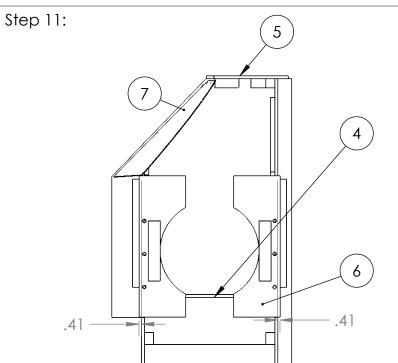
SCALE: 1:24 WEIGHT:

SHEET 5 OF 14

REV

2

В



Note:

Attach (6) to assembly, with an overhang of .41 "; pre-drill and

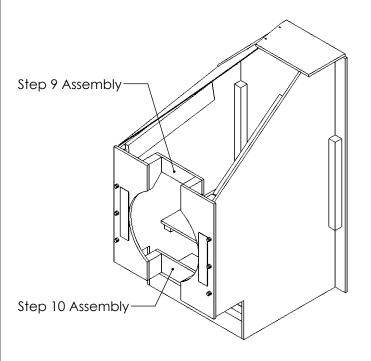
use 1.25" screws

Attach 5 to assembly; pre-drill and use 1.25" screws

Attach (7) to (5) and rest of assembly with cable ties

Attach (4) to (8); pre-drill and use 1.25" screws

Step 12:



Note:

Attach assembly from Step 9 flush to the opening and top of 6

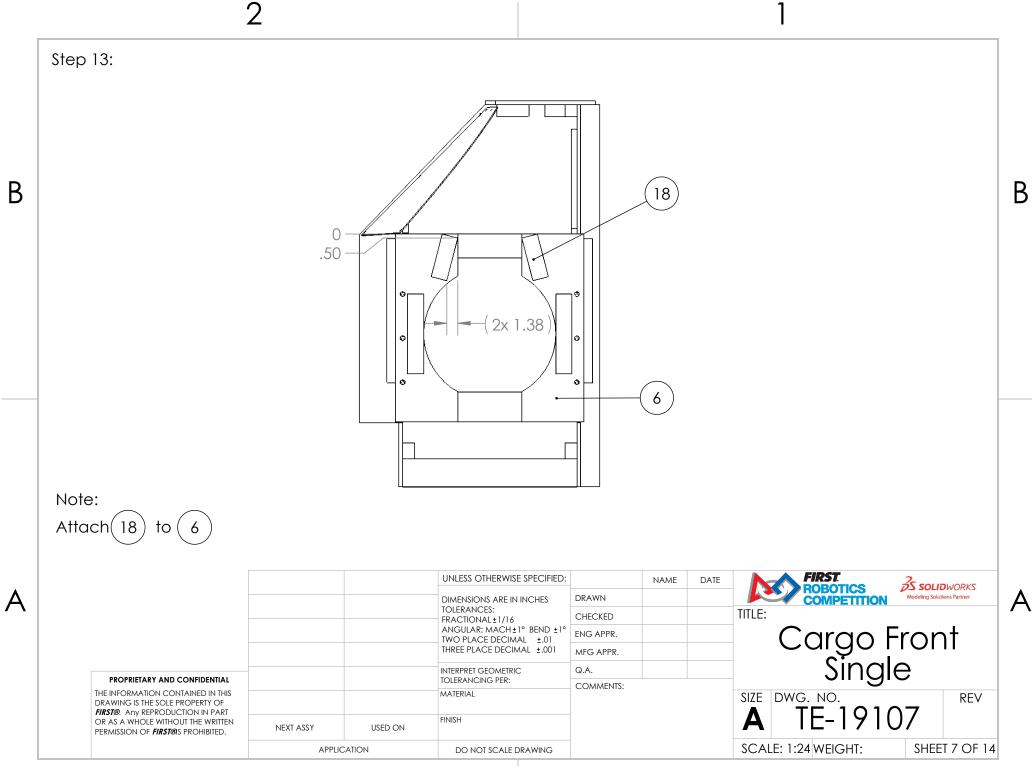
Attach assembly from Step 10 flush to the opening and bottom of

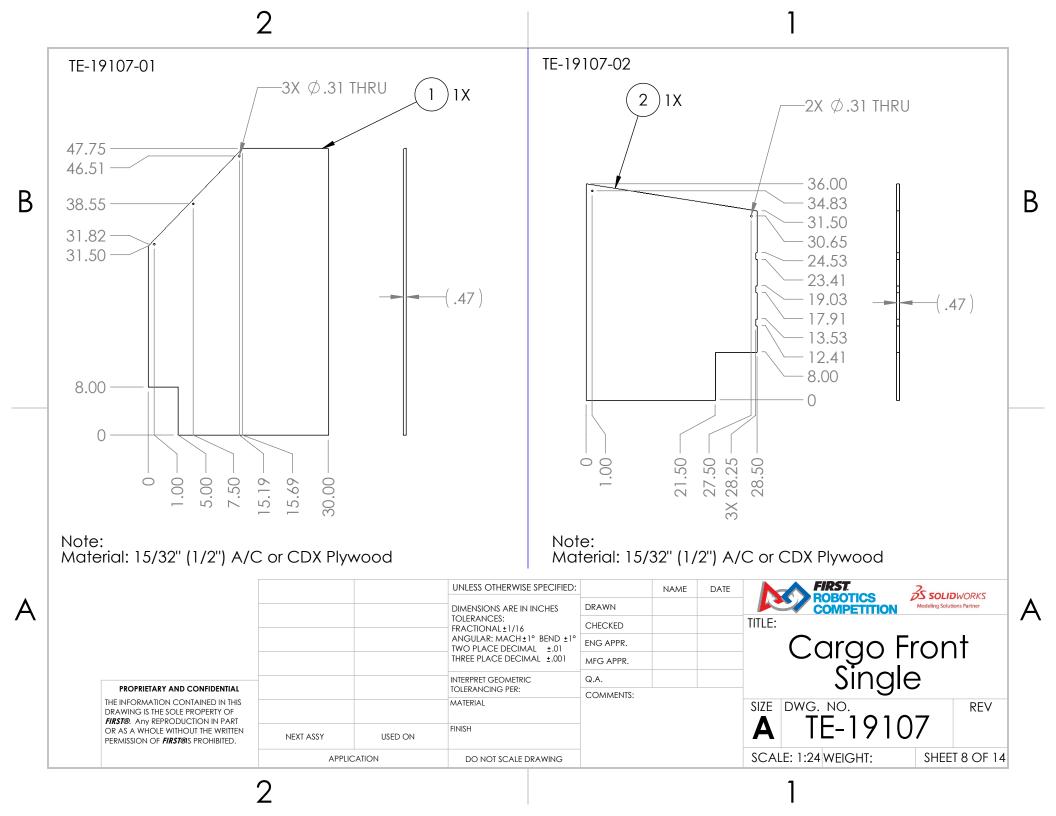
(6)

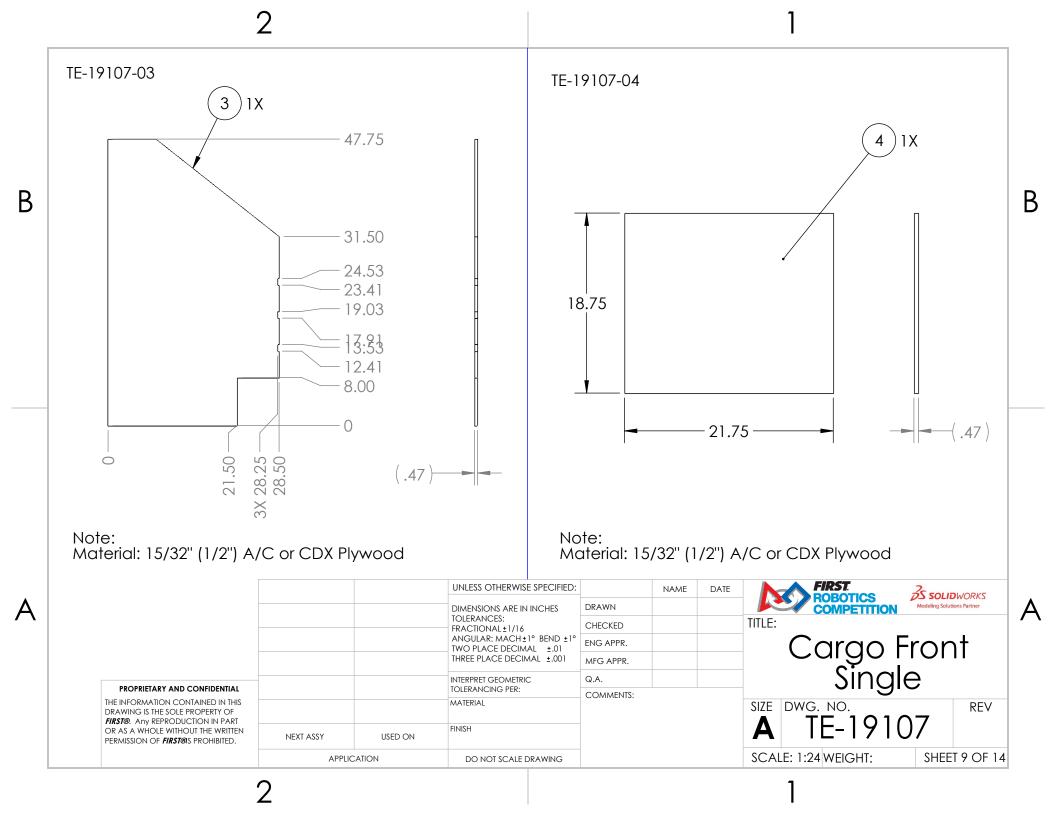
Pre-drill and use 2.5" screws

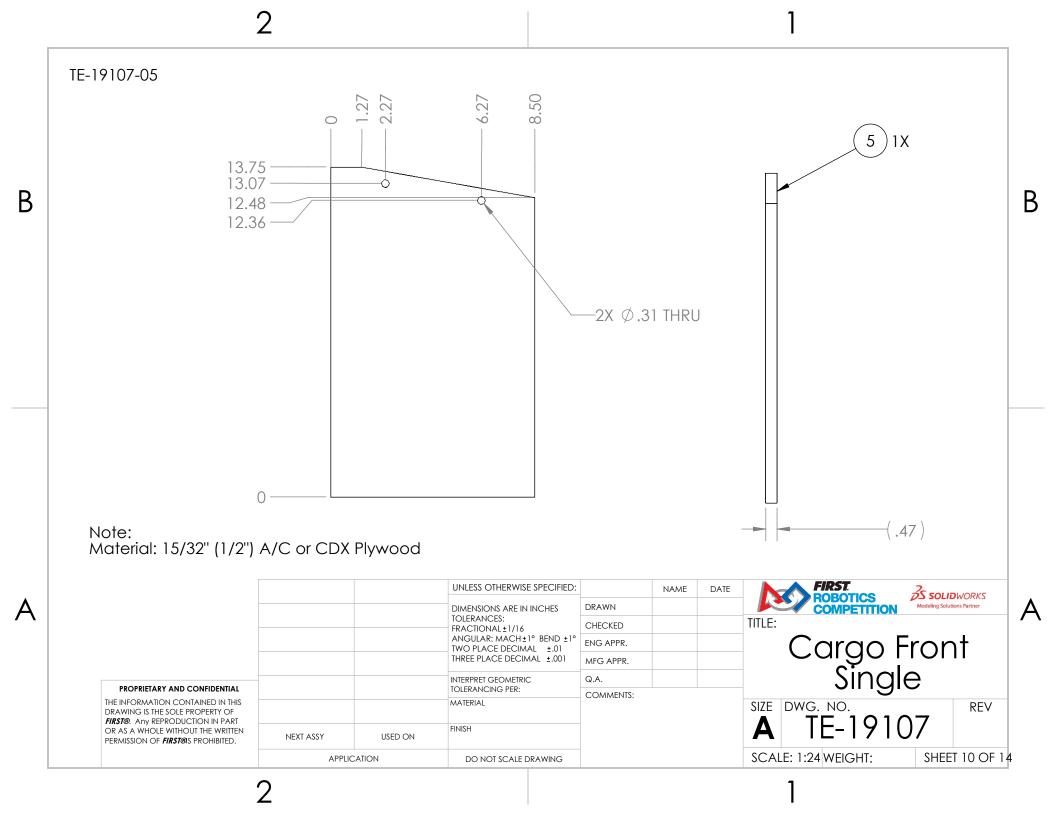
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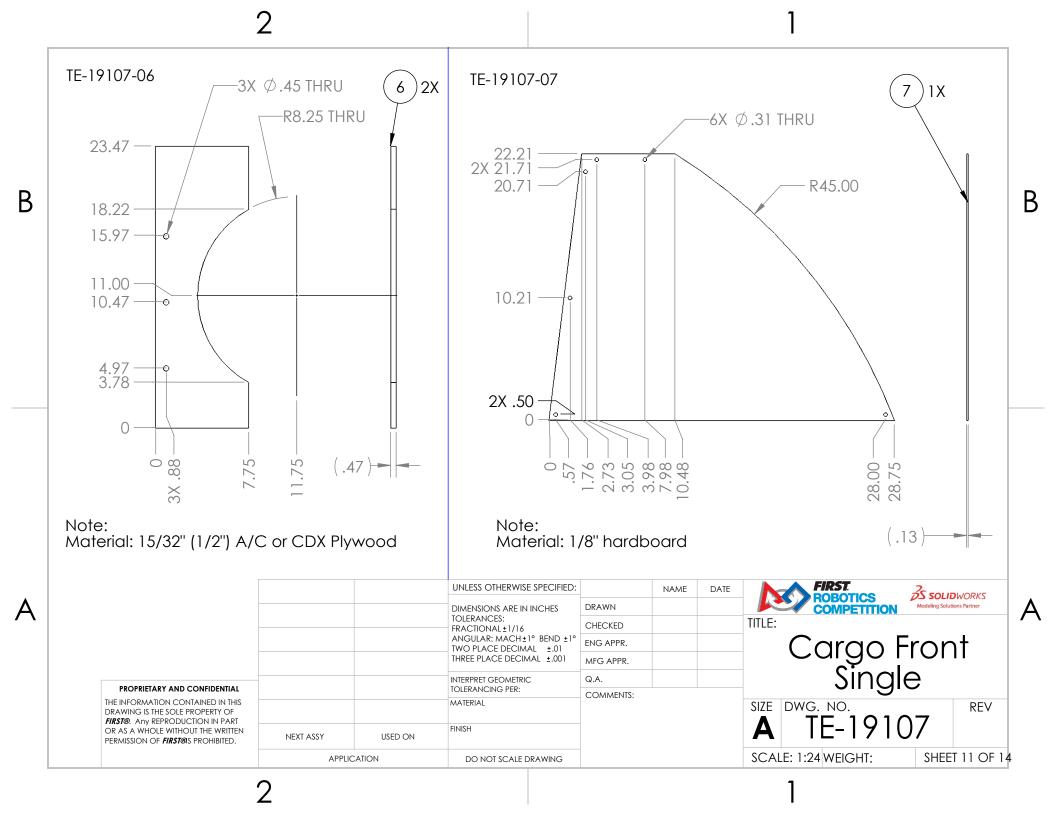
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|--|-----------|---------|--------------------------------------|-----------|------|------|---------------------|----------------------------|--|
| | | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | FIRST. | S SOLIDWORKS | |
| | | | DIMENSIONS ARE IN INCHES | DRAWN | | | | Modeling Solutions Partner | |
| | | | TOLERANCES: FRACTIONAL±1/16 | CHECKED | | | TITLE: | | |
| | | | TWO PLACE DECIMAL ±.01 | ENG APPR. | | | Cargo Front | | |
| | | | | MFG APPR. | | | | | |
| PROPRIETARY AND CONFIDENTIAL | | | INTERPRET GEOMETRIC TOLERANCING PER: | Q.A. | | | Single |) | |
| | | | | COMMENTS: | | | 3 11 13 1 | | |
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| | APPLI | CATION | DO NOT SCALE DRAWING | | | | SCALE: 1:24 WEIGHT: | SHEET 6 OF 14 | |

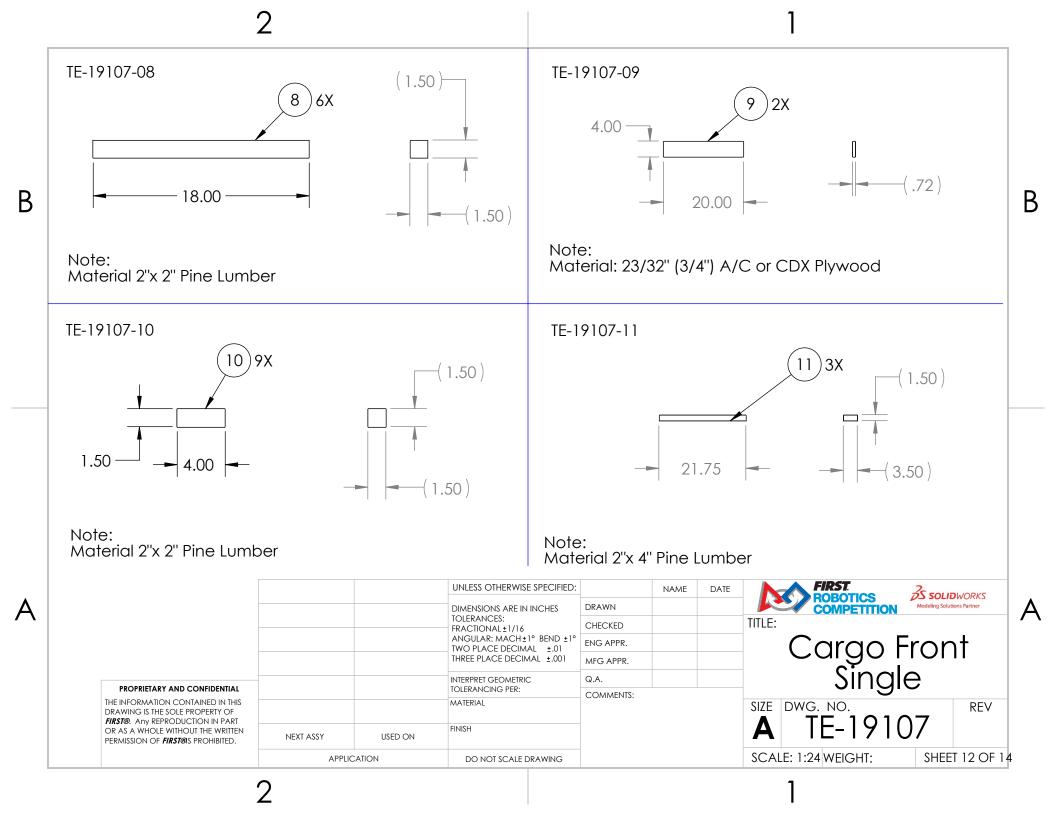


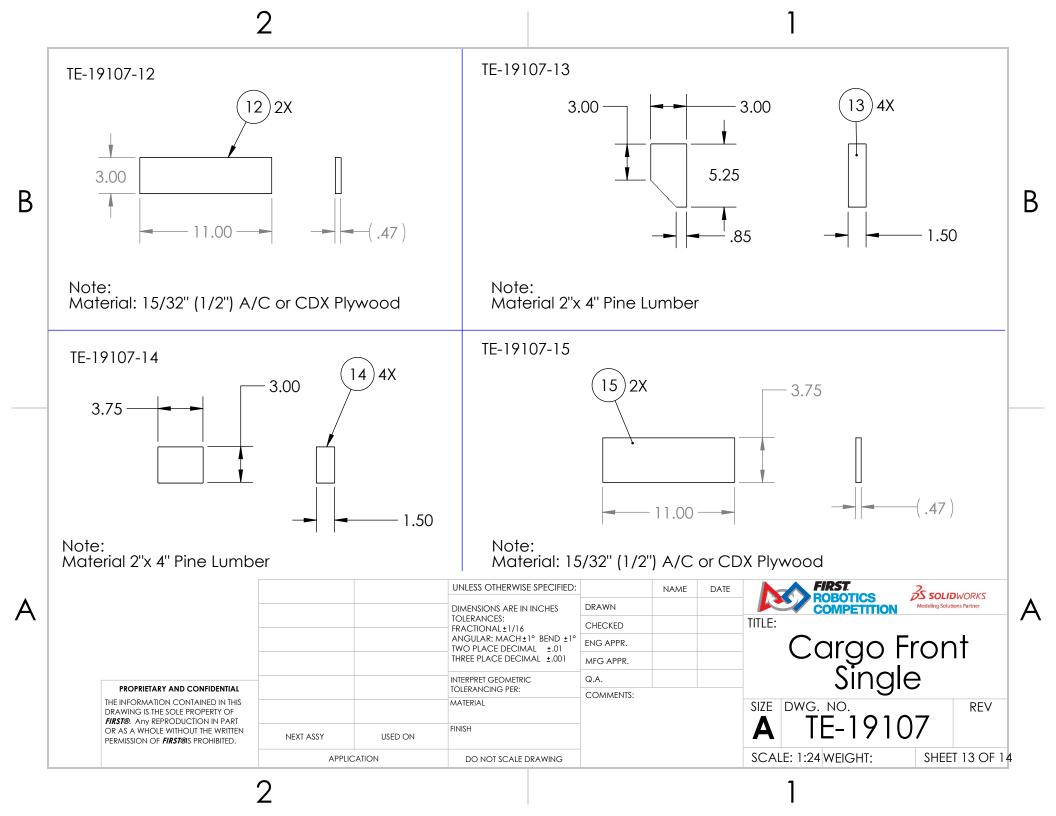


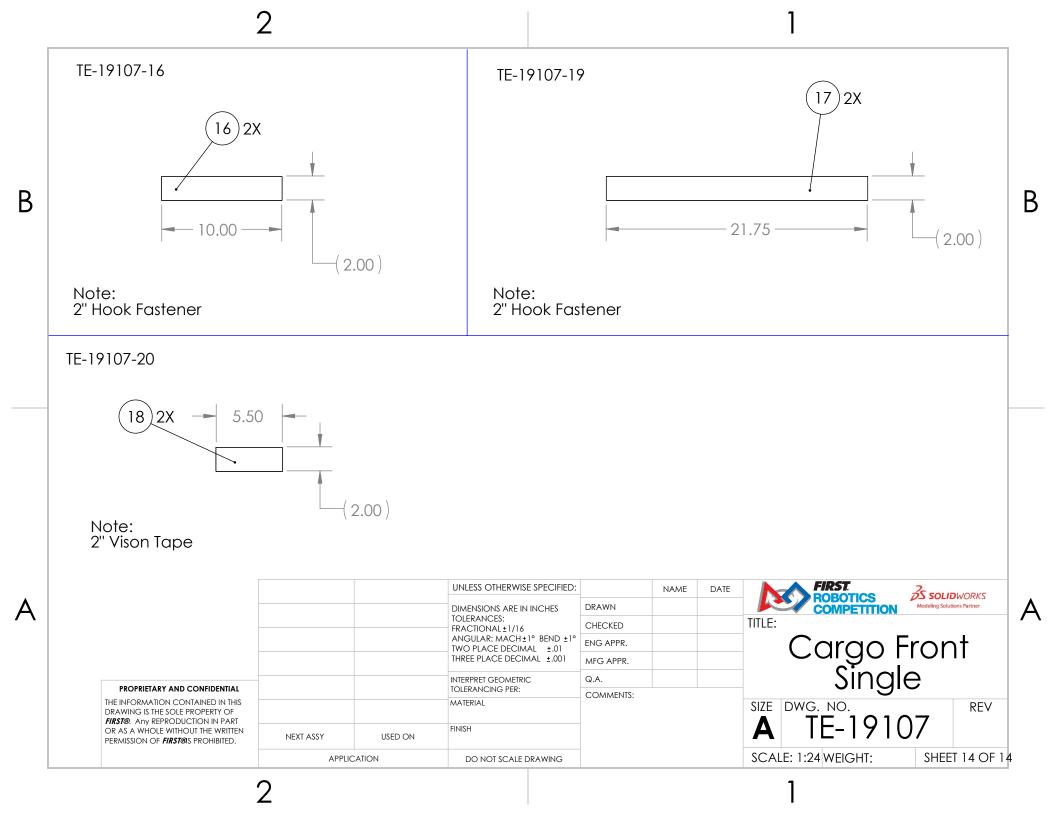










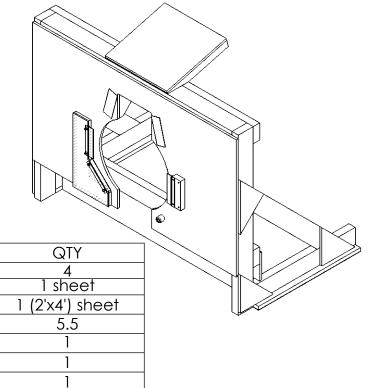


| ITEM NO. | PART NUMBER | QTY. |
|----------|----------------------|------|
| 1 | TE-19108-01 | 1 |
| 2 | TE-19108-02 | 1 |
| 3 | TE-19108-03 | 6 |
| 4 | TE-19108-04 | 1 |
| 5 | TE-19108-05 | 2 |
| 6 | TE-19108-06 | 1 |
| 7 | TE-19108-07 | 2 |
| 8 | TE-19108-08 | 1 |
| 9 | TE-19108-09 | 2 |
| 10 | TE-19108-10 | 2 |
| 11 | TE-19108-11 | 2 |
| 12 | TE-19108-12 | 2 |
| 13 | TE-19108-13 | 2 |
| 14 | TE-19108-14 | 1 |
| 15 | TE-19108-15 | 2 |
| 16 | TE-19108-16 | 1 |
| 17 | TE-19108-17 | 1 |
| 18 | TE-19108-18 | 2 |
| 19 | TE-19108-19 | 3 |
| 20 | TE-19108-20 | 2 |
| 21 | TE-19108-21 | 2 |
| 22 | button_hex25_20_1.25 | 1 |
| 23 | flat_hex_10_24625 | 4 |
| 24 | nylock25_20 | 1 |
| 25 | nylock_10_24 | 4 |
| 26 | MMC# 9540K953 | 1 |
| | | • |

В

Note: Set up for one side Mirror Assembly for Half Field for the opposite side

Material



| Flat head 10-24 X0.625" | 4 |
|---------------------------------|-----------------|
| 15/32"(1/2") A/C or CDX Plywood | 1 sheet |
| 1/4" Hardboard | 1 (2'x4') sheet |
| 2"x 4"x 8" | 5.5 |
| Frost King C35PH | 1 |
| McMaster 9540K953 | 1 |
| Button Head 1/4"-20 x 1.25 | 1 |
| Nylock 1/4"-20 | 1 |
| Nylock 10-24 | 4 |
| Frost King door sweep | 1 |
| 2" Hook Fastener | 48" |
| 2" Vison Tape | 11" |
| 1.25" wood screws | ~90 |
| 2.5" wood screws | ~40 |

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| | | DIMENSIONS ARE IN INCHES | DRAWN | | | | |
| | | TOLERANCES: FRACTIONAL±1/16 | CHECKE |) | | | TI |
| | | ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 | ENG APP | R. | | | |
| | | THREE PLACE DECIMAL ±.001 | MFG APF | PR. | | | |
| | | INTERPRET GEOMETRIC | Q.A. | | | | |
| | | TOLERANCING PER: | COMME | NTS: | | | |
| | | MATERIAL | COMMENTS. | | | S | |
| NEXT ASSY | USED ON | FINISH | | | | | 4 |
| APPLIC | CATION | DO NOT SCALE DRAWING | | | | | 3 |

FIRST.
ROBOTICS
COMPETITION

TITLE:

SOLIDWORKS
Modeling Solutions Partner

Loading Station

SIZE DWG. NO. REV TE-19108

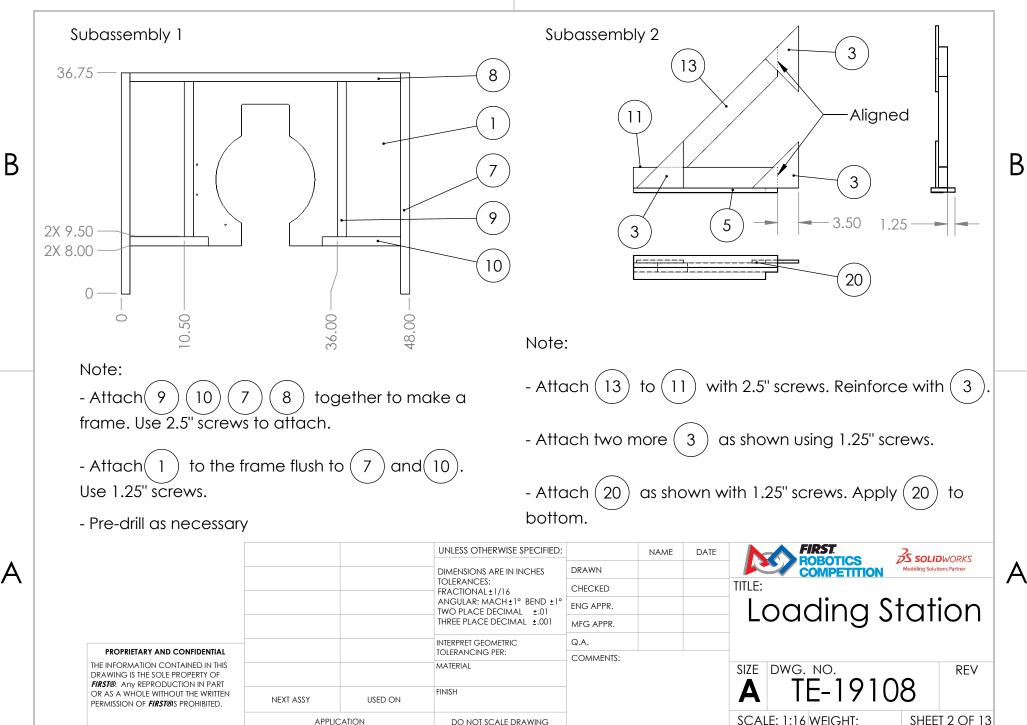
SCALE: 1:16 WEIGHT: SHEET 1 OF 13

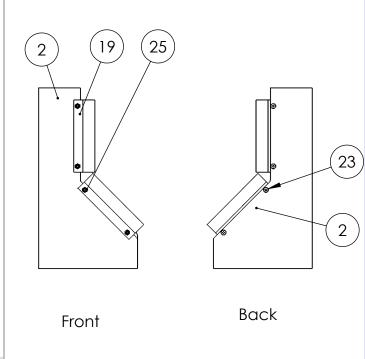
1

2

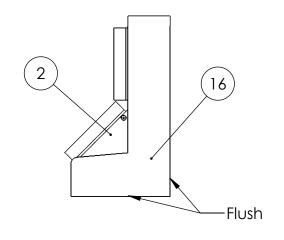
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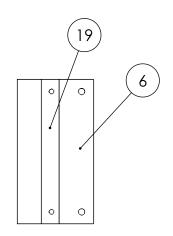




Subassembly 3:



Subassembly 4:



В

Note:

Attach(19) to (2) with (23) and (25)

Note:

- Attach(16) to the back of (2) flush on indicated edges.

- Use 1.25" screws, but do not screw in all the way.

Note:

Attach (19) to (6) with 1.25" screws

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В

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| FIR | ST® . Any REPRODUCTION | I IN PART |
| OR | AS A WHOLE WITHOUT TH | E WRITTEI |
| PER | MISSION OF <i>FIRST®</i> IS PRO | HIBITED. |

| | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE |
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| | | DIMENSIONS ARE IN INCHES | DRAWN | | |
| | | TOLERANCES: FRACTIONAL±1/16 | CHECKED | | |
| | | ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 | ENG APPR. | | |
| | | THREE PLACE DECIMAL ±.001 | MFG APPR. | | |
| | | INTERPRET GEOMETRIC | Q.A. | | |
| | | TOLERANCING PER: | COMMENTS: | | |
| | | MATERIAL | | | |
| NEXT ASSY | USED ON | FINISH | | | |

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FIRST.
ROBOTICS
COMPETITION



Loading Station

SIZE DWG. NO. REV TE-19108

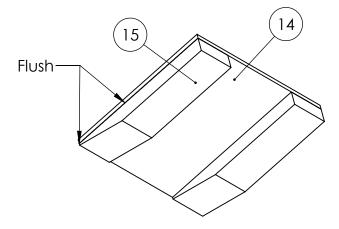
SCALE: 1:16 WEIGHT: SHEET 3 OF 13

1

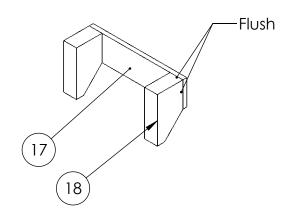
2

APPLICATION

Subassembly 5:



Subassembly 6:



В

Note:

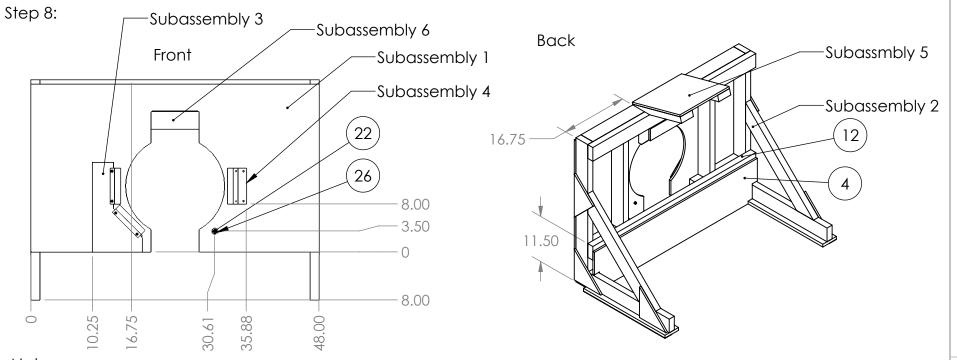
- Attach (14) to (15) with 1.25" screws.
- Keep flush at indicated edges.

Note:

- with 1.25" screws - Attach (17)
- Keep flush at indicated edges.

| | | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | FIRST. | S SOLIDWORKS |
|---|-----------|---------|--|-----------|------|------|---------------------|----------------------------|
| | | | DIMENSIONS ARE IN INCHES | DRAWN | | | | Modeling Solutions Partner |
| | | | TOLERANCES: FRACTIONAL±1/16 | CHECKED | | | TITLE: | |
| | | | ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 | ENG APPR. | | | Loading St | ation |
| | | | THREE PLACE DECIMAL ±.001 | MFG APPR. | | | Lodding 31 | dilori |
| | | | INTERPRET GEOMETRIC | Q.A. | | | | |
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| | APPLI | CATION | DO NOT SCALE DRAWING | | | | SCALE: 1:16 WEIGHT: | SHEET 4 OF 13 |

В



Note:

- Attach Subassembly 3 to Subassembly 1 using 1.25" screws.
- Attach Subassembly 4 to Subassembly 6 using 1.25" screws.
- Attach Subasssembly 6 using 2.5" screws. Keep sides and top flush to opening.

Notes:

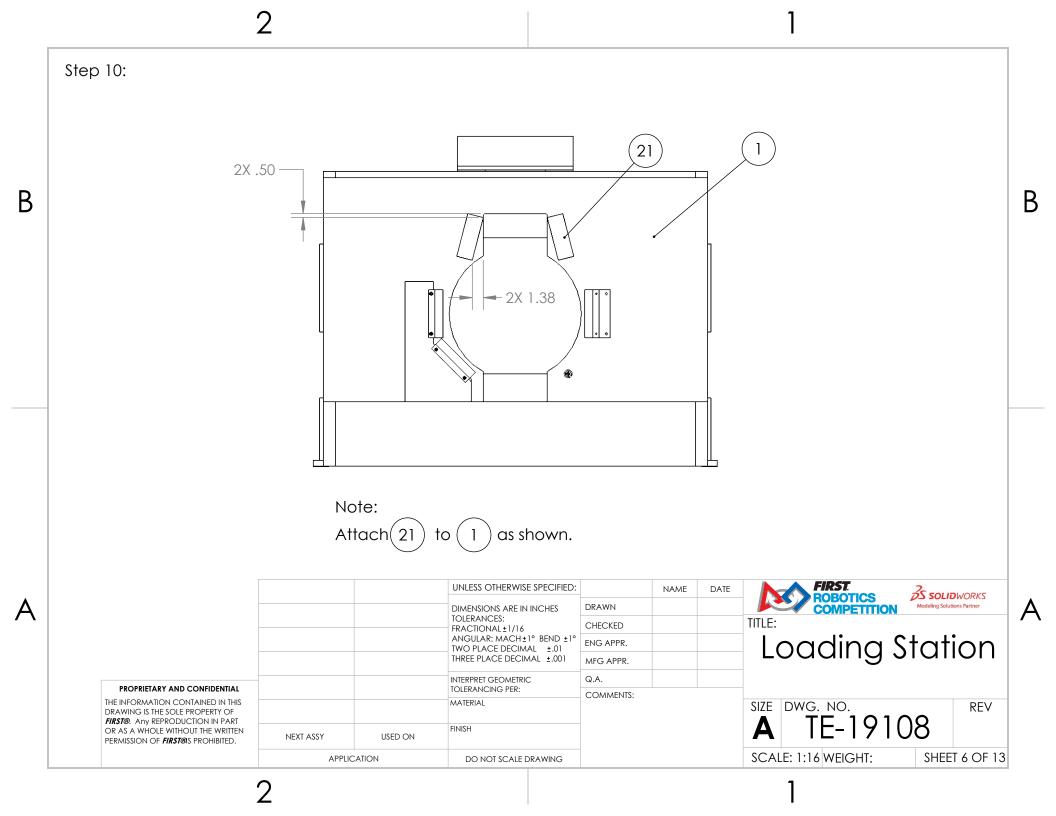
- Attach Subassembly 2 to the sides of Subassembly 1.
- Attach Subassembly 5 as shown. Use 2.5" screws to attach.
- Attach(12) using 2.5" screws.
- Attach (4) to (12) using 1.25" screws

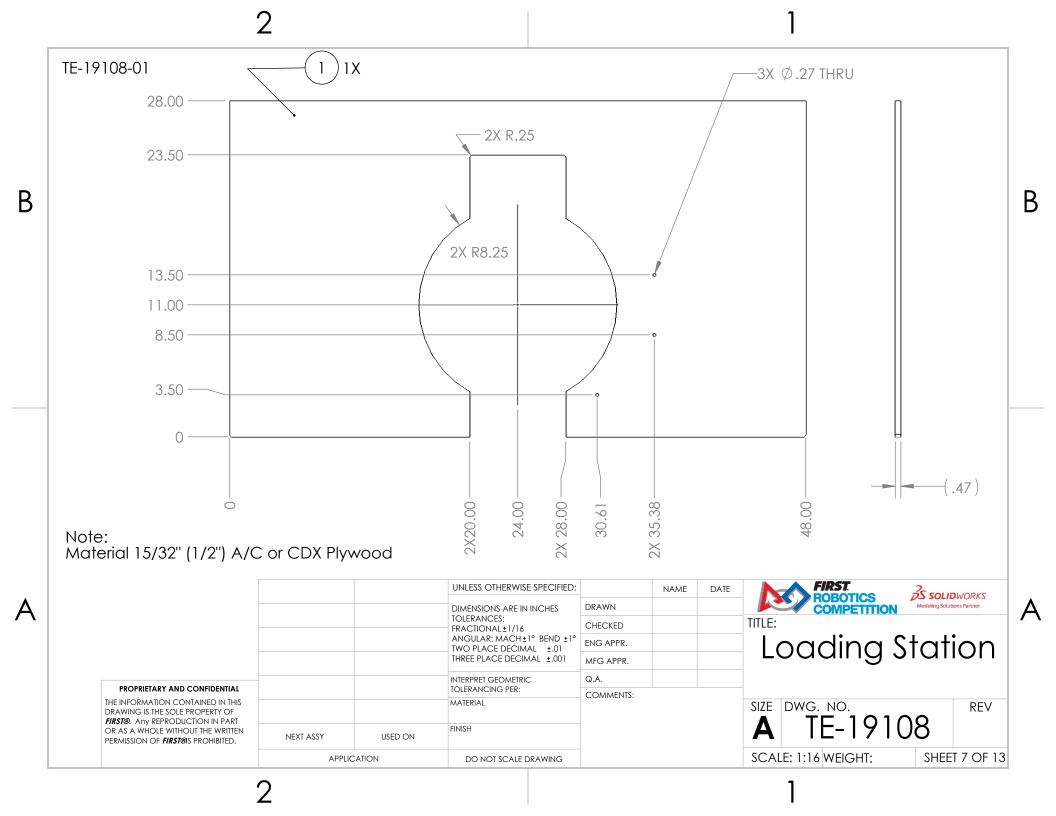
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|--|-----------|---------|--|-----------|------|------|---------------------|----------------------------|
| | | | DIMENSIONS ARE IN INCHES | DRAWN | | | COMPETITION | Modeling Solutions Partner |
| | | | TOLERANCES: FRACTIONAL±1/16 | CHECKED | | | TITLE: | |
| | | | ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 | ENG APPR. | | | Loading St | tation |
| | | | THREE PLACE DECIMAL ±.001 | MFG APPR. | | | Lodding 51 | |
| DRODDIFTA DV. A ND. CONFIDENTIAL | | | INTERPRET GEOMETRIC | Q.A. | | | | |
| PROPRIETARY AND CONFIDENTIAL | | | TOLERANCING PER: | COMMENTS: | | | | |
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| OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <i>FIRST®</i> S PROHIBITED. | NEXT ASSY | USED ON | FINISH | | | | A TE-1910 | 8 |
| | APPLI | CATION | DO NOT SCALE DRAWING | | | | SCALE: 1:16 WEIGHT: | SHEET 5 OF 13 |

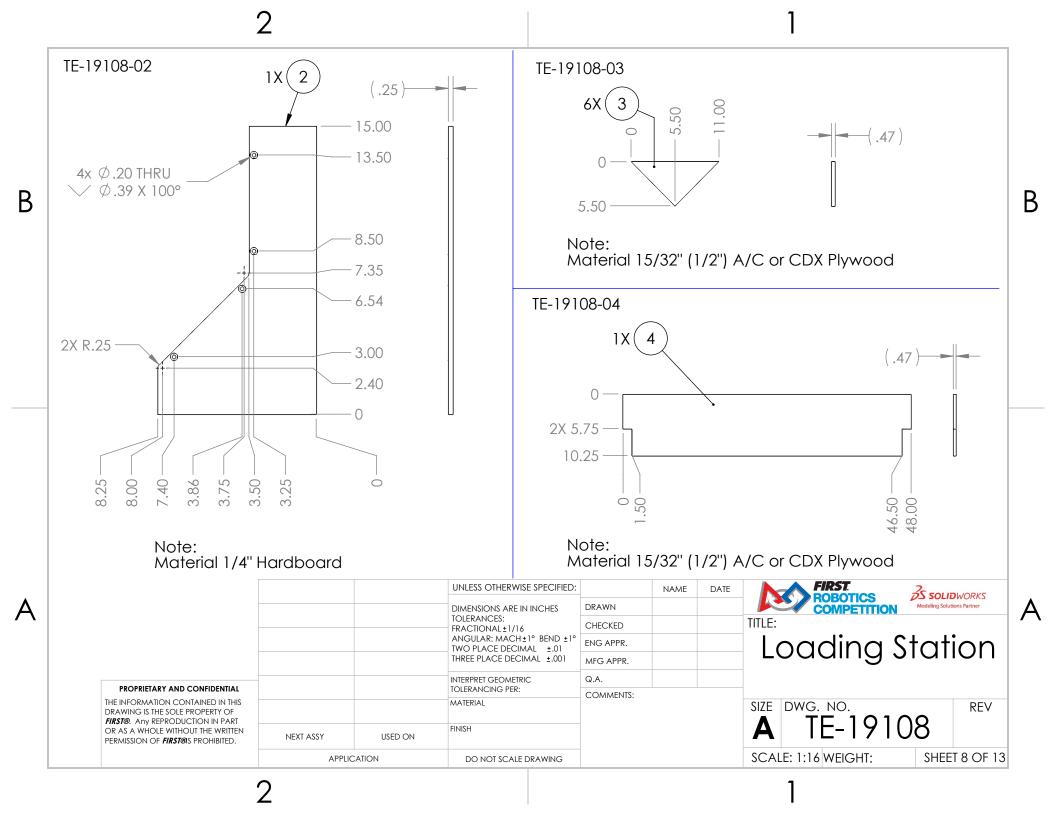
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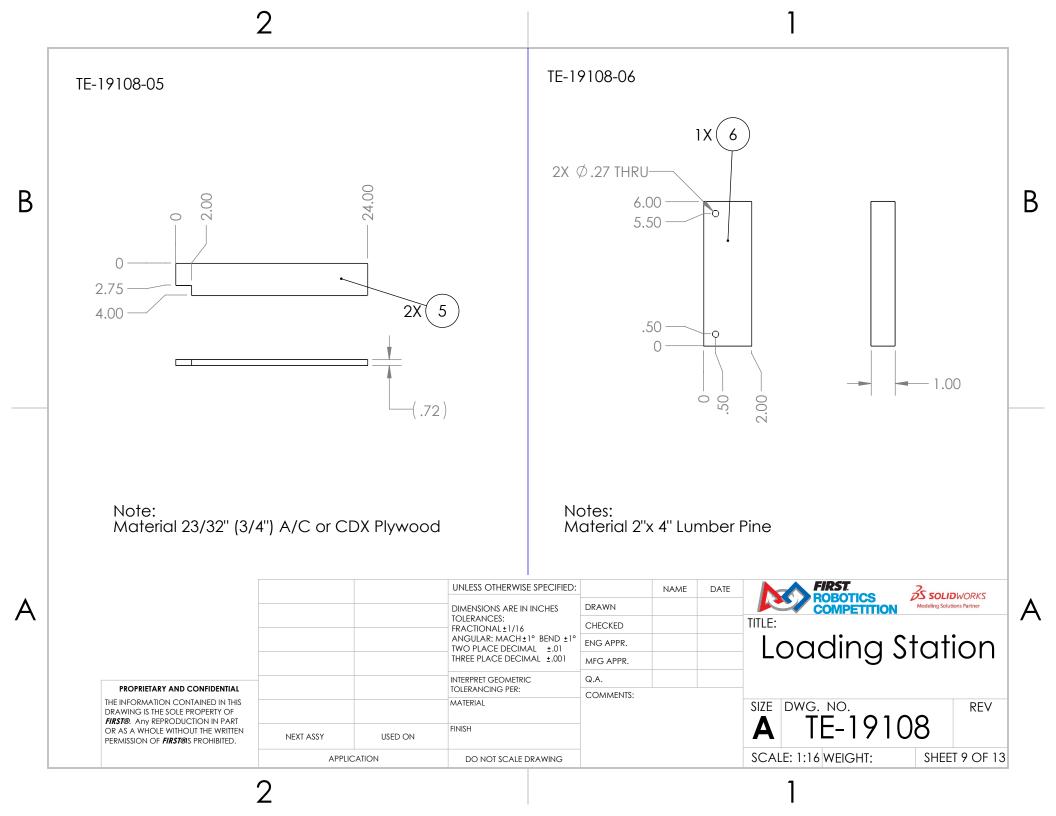
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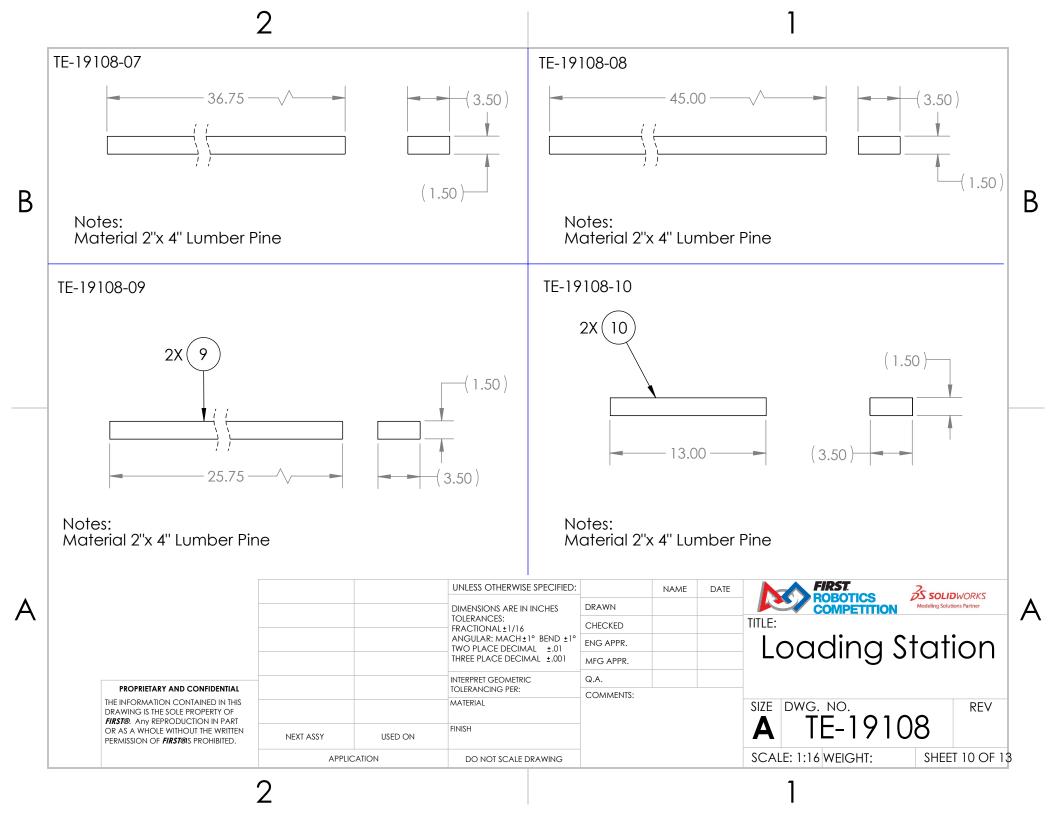
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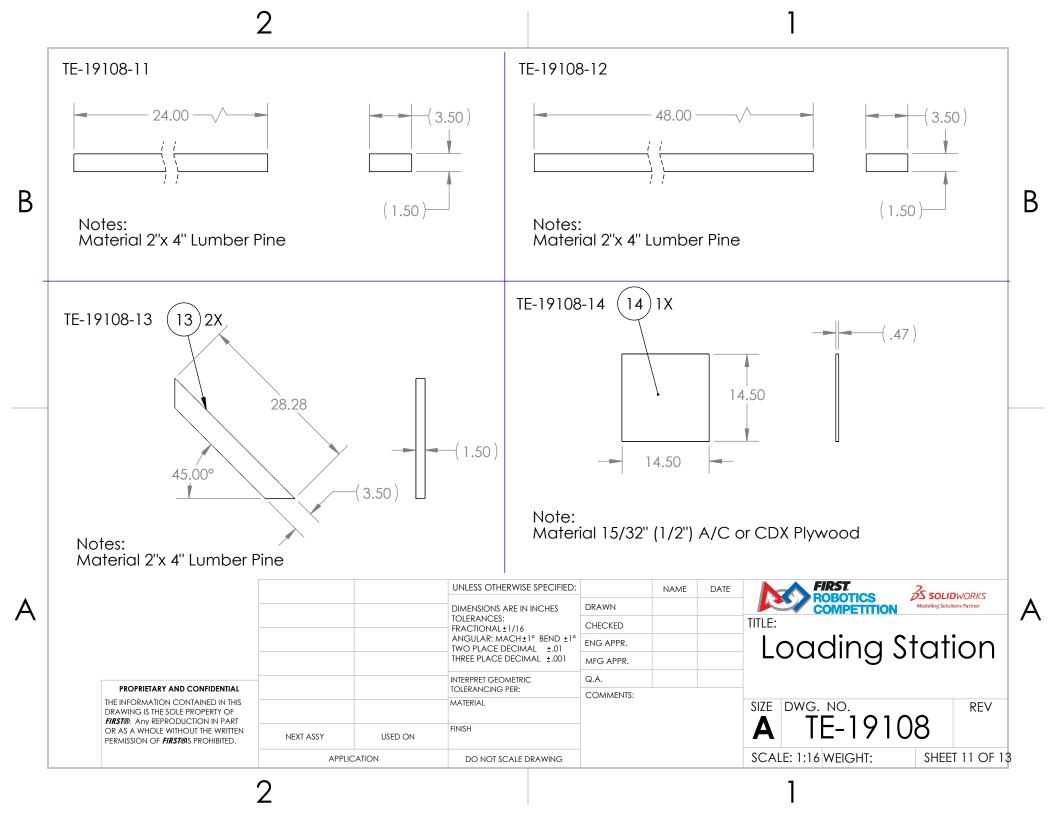


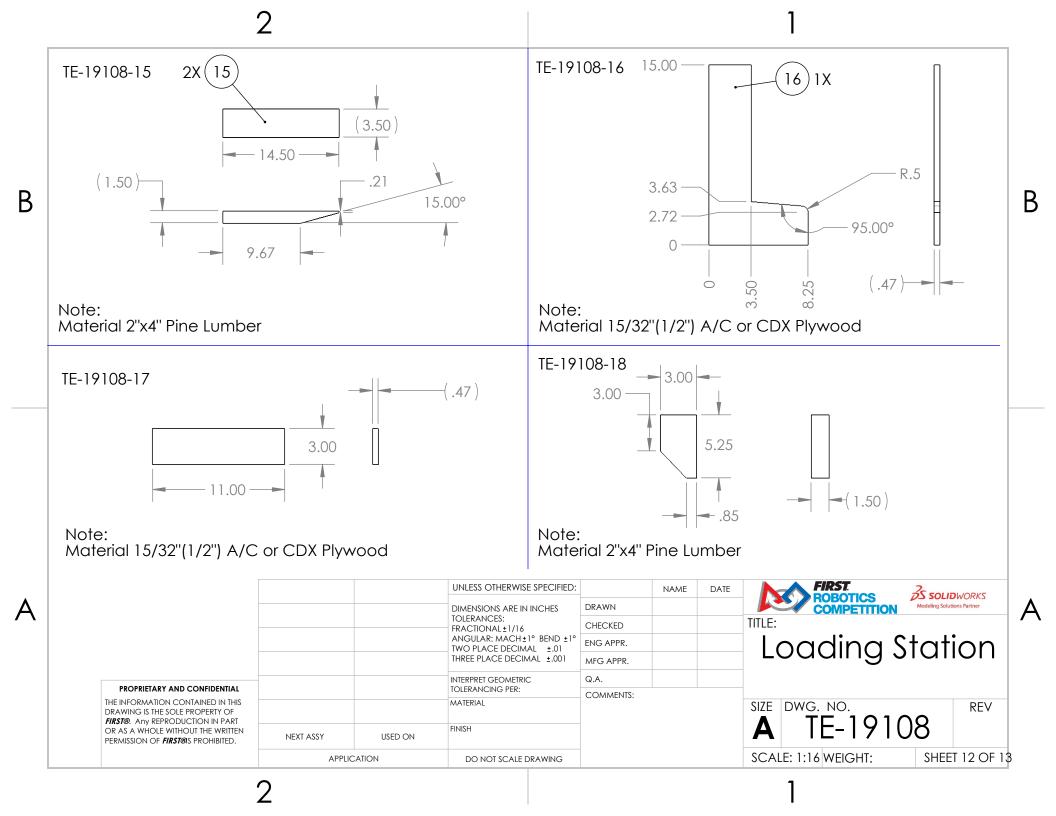


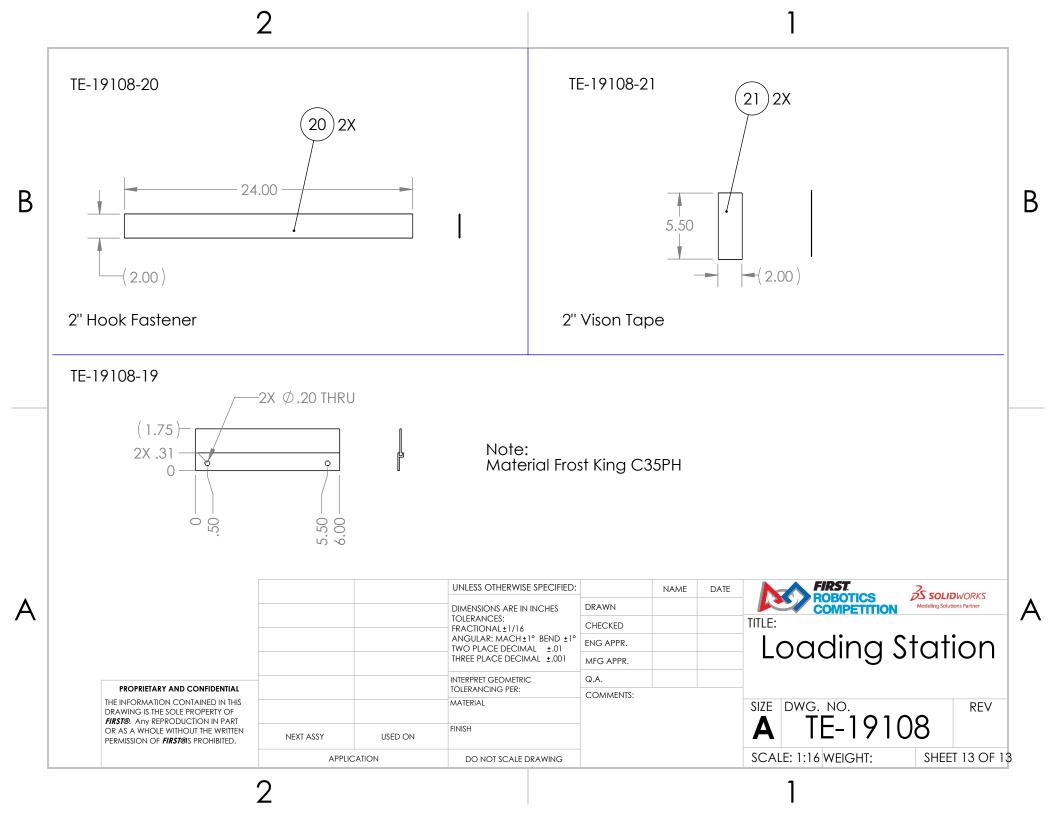




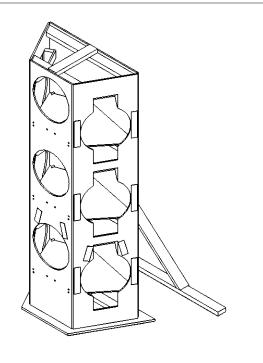








| ITEM NO. | PART NUMBER | QTY. |
|----------|---------------------|------|
| 1 | TE-19113-01 | 1 |
| 2 | TE-19113-02 | 2 |
| 3 | TE-19113-03 | 1 |
| 4 | TE-19113-04 | 6 |
| 5 | TE-19113-05 | 2 |
| 6 | TE-19113-06 | 1 |
| 7 | TE-19113-07 | 4 |
| 8 | TE-19113-08 | 4 |
| 9 | TE-19113-09 | 4 |
| 10 | TE-19113-10 | 1 |
| 11 | TE-19113-11 | 6 |
| 12 | TE-19113-12 | 12 |
| 13 | TE-19113-13 | 12 |
| 14 | TE-19113-15 | 6 |
| 15 | TE-19113-16 | 1 |
| 16 | TE-19113-17 | 3 |
| 17 | flat_phil25_20_1.75 | 36 |



В

| QTY |
|-------------|
| 0.25 sheets |
| 3 sheets |
| 4 |
| 18 |
| 267" |
| 33" |
| ~60 |
| ~100 |
| |

| | | | | | 2.5 SCIEV | NS . | | ~100 | |
|--|-----------|---------|------------------------|-----------------------------------|-----------|------|------|---------------------|-----------------------|
| | | | UNLESS OTI | HERWISE SPECIFIED: | | NAME | DATE | FIRST. ROBOTICS | 3S SOLID WORKS |
| | | | | S ARE IN INCHES | DRAWN | | | COMPETITION | |
| | | | TOLERANCE FRACTIONA | | CHECKED | | | TITLE: | |
| | | | | MACH±1° BEND ±1° EDECIMAL ±.01 | ENG APPR. | | | Full Roo | ~kot |
| | | | | CE DECIMAL ±.001 | MFG APPR. | | | | SKCI |
| DRODDIETA DV. AND. CONFIDENTIAL | | | INTERPRET GE | | Q.A. | | | | |
| PROPRIETARY AND CONFIDENTIAL | | | TOLERANCIN | G PER: | COMMENTS: | | | | |
| THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST®. ANY REPRODUCTION IN PART | | | MATERIAL | | | | | SIZE DWG. NO. | 1 O |
| OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED. | NEXT ASSY | USED ON | FINISH | | | | | A TE-191 | 13 |
| | APPLI | CATION | DO NOT | SCALE DRAWING | | | | SCALE: 1:32 WEIGHT: | SHEET 1 OF 11 |

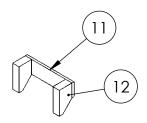
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Subassembly 1: QTY 4

(9.4)

Subassembly 2: QTY 6



В

(8.00)

Notes:

- Attach (7) to (8) and (9).

- (7) is centered on top of (8) and (9)

- Pre-drill and attach items with 2.5" screws.

Note:

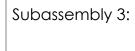
-Attach(11) to (12)2X.

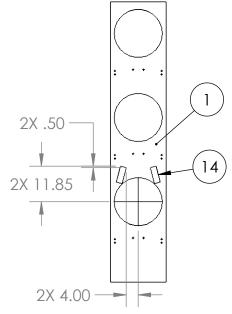
-(12) should be flush to top edge and side faces of (11)

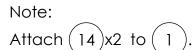
- Pre drill and attach using 1.25" screws

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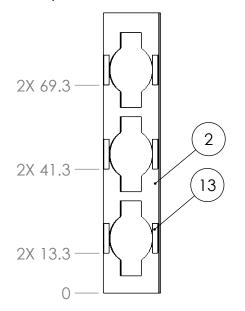
| | | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | FIRST. | 3S SOLID WORKS |
|--|-----------|---------|--|-----------|------|------|---------------------|----------------------------|
| | | | DIMENSIONS ARE IN INCHES | DRAWN | | | COMPETITION | Modeling Solutions Partner |
| | | | TOLERANCES: FRACTIONAL±1/16 | CHECKED | | | TITLE: | |
| | | | ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 | ENG APPR. | | | Full Roc | ket |
| | | | THREE PLACE DECIMAL ±.001 | MFG APPR. | | | 1011100 | IKC I |
| PROPRIETARY AND CONFIDENTIAL | | | INTERPRET GEOMETRIC TOLERANCING PER: | Q.A. | | | | |
| THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST®, Any REPRODUCTION IN PART | | | MATERIAL MATERIAL | COMMENTS: | | | SIZE DWG. NO. | REV |
| OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED. | NEXT ASSY | USED ON | FINISH | | | | A TE-1911 | 3 |
| | APPLIC | CATION | DO NOT SCALE DRAWING | | | | SCALE: 1:32 WEIGHT: | SHEET 2 OF 11 |

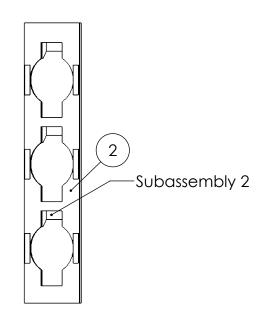






Subassembly 4: Qty. 2





В

Note:

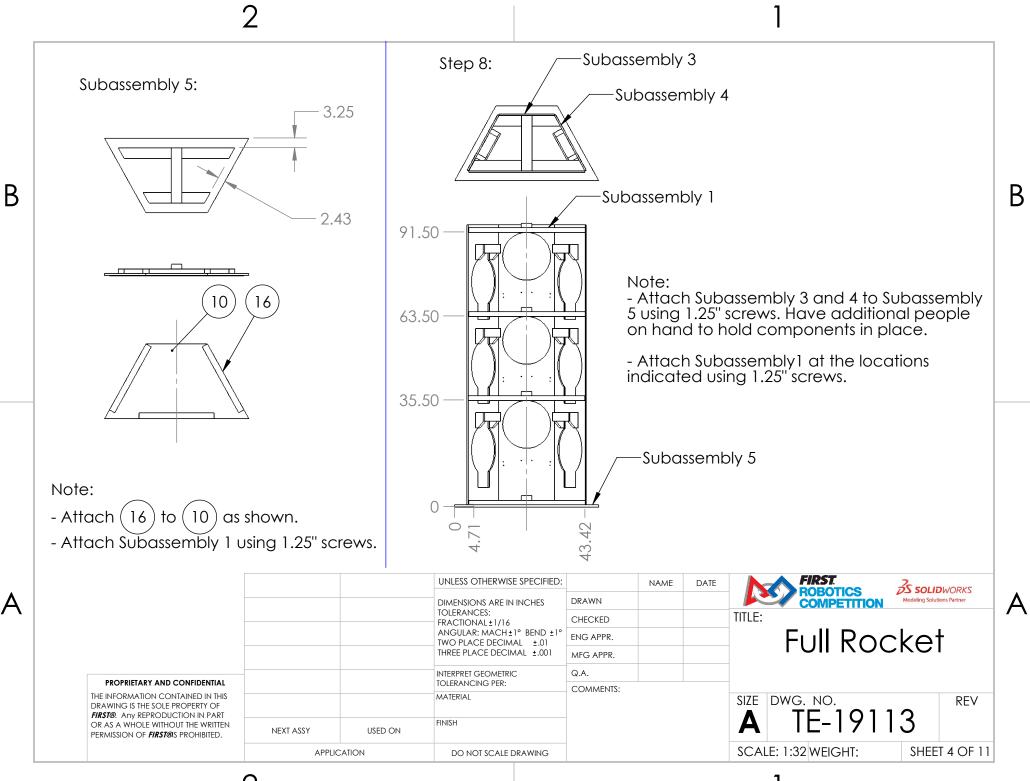
- Attach (13) x6 to (2) . (13) should be tangent to openening.
- Attach Suabassembly 2 (qty.3) to 2. It should be flush to the top opening edges.
- Use 1.25" or 2.5" screws to attach items.

| | | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | FIRST. ROBOTICS | S SOLIDWORKS | |
|--|-------------|---------|--|-----------|------|------|---------------------|----------------------------|--|
| | | | DIMENSIONS ARE IN INCHES | DRAWN | | | | Modeling Solutions Partner | |
| | | | TOLERANCES: FRACTIONAL±1/16 | CHECKED | | | | | |
| | | | ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.001 | ENG APPR. | | | | kot | |
| | | | | MFG APPR. | | | | KC1 | |
| DECEMBER AND CONFIDENTIAL | | | INTERPRET GEOMETRIC | Q.A. | | | | | |
| PROPRIETARY AND CONFIDENTIAL | | | TOLERANCING PER: | COMMENTS: | | | | | |
| THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST®. Any REPRODUCTION IN PART | | | MATERIAL | | | | SIZE DWG. NO. | REV | |
| OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED. | NEXT ASSY | USED ON | FINISH | | | | A TE-1911 | 3 | |
| | APPLICATION | | DO NOT SCALE DRAWING | | | | SCALE: 1:32 WEIGHT: | SHEET 3 OF 11 | |

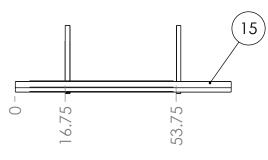
A

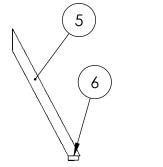
В

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Subassembly 6:

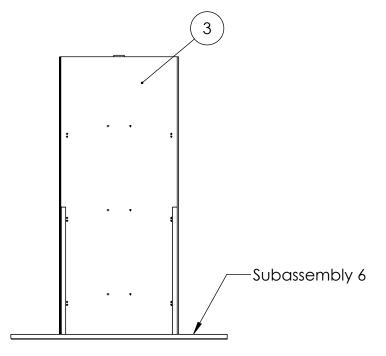




Notes:

- Attach (5) to (6) at the two locations indicated. Pre-drill and use 2.5" screws.
- Attach (15) to (6)

Step 10:



Note:

- Attach (3) to Step 8 pre drill 2.5" screws
- Attach Step 9 to (3) pre drill and 2.5" screw Step 9 sits flush to floor

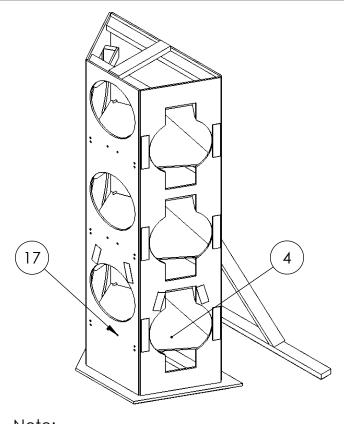
| | | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | FIRST. | 3S SOLID WORKS | |
|--|-------------|---------|-----------------------------|-----------|------|------|--|-----------------------|--|
| PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST®. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST®IS PROHIBITED. | | | TWO PLACE DECIMAL ±.01 | DRAWN | | | ROBOTICS SOLIDWO Modeling Solutions Pair | | |
| | | | | CHECKED | | | TITLE: | | |
| | | | | ENG APPR. | | | Full Rocket | | |
| | | | | MFG APPR. | | | | | |
| | | | | Q.A. | | | | | |
| | | | | COMMENTS: | | | | | |
| | | | MATERIAL | | | | SIZE DWG. NO. REV | | |
| | NEXT ASSY | USED ON | FINISH | | | | A TE-19113 | | |
| | APPLICATION | | DO NOT SCALE DRAWING | | | | SCALE: 1:32 WEIGHT: | SHEET 5 OF 11 | |

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В

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2X .50

Note:

В

- Insert (17)x36 into all countersunk holes

- Lay (4) onto (17). One of the (17) will be on top of (4)

Note:

- Attach (14) 2X as shown. Repeat on other side.

UNLESS OTHERWISE SPECIFIED: NAME DATE S SOLIDWORKS DRAWN DIMENSIONS ARE IN INCHES TOLERANCES: TITLE: CHECKED FRACTIONAL±1/16 Full Rocket ANGULAR: MACH±1° BEND ±1° ENG APPR. TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.001 MFG APPR. INTERPRET GEOMETRIC Q.A. PROPRIETARY AND CONFIDENTIAL TOLERANCING PER: COMMENTS: THE INFORMATION CONTAINED IN THIS MATERIAL SIZE DWG. NO. REV DRAWING IS THE SOLE PROPERTY OF TE-19113 FIRST®. Any REPRODUCTION IN PART FINISH OR AS A WHOLE WITHOUT THE WRITTEN **USED ON NEXT ASSY** PERMISSION OF FIRST®IS PROHIBITED. SHEET 6 OF 11 SCALE: 1:32 WEIGHT: APPLICATION DO NOT SCALE DRAWING

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