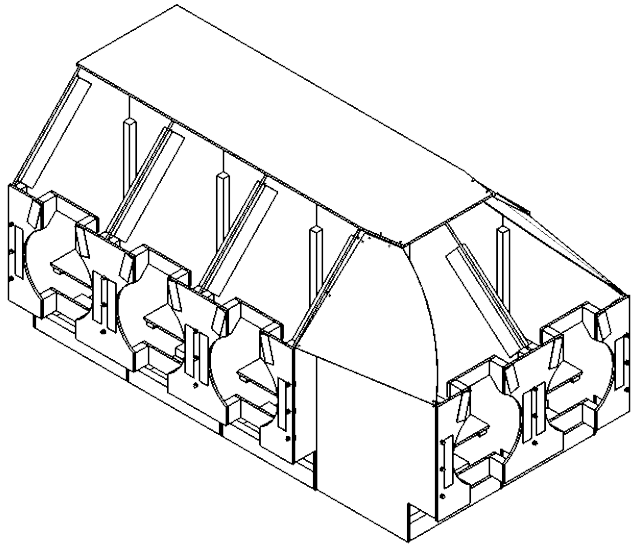
ITEM NO.	PART NUMBER	QTY.
1	TE-19112-01	1
2	TE-19112-02	4
3	TE-19112-03	1
4	TE-19112-04	6
5	TE-19112-05	8
6	TE-19112-06	2
7	TE-19112-07	5
8	TE-19112-08	32
9	TE-19112-09	34
10	TE-19112-10	2
11	TE-19112-11	14
12	TE-19112-12	16
13	TE-19112-13	8
14	TE-19112-14	16
15	TE-19112-15	16
16	TE-19112-16	8
17	Tee nut .375_16	33
18	hex nut_.375_16	33
19	hex_.375_16_.625	33
20	TE-19112-19	16
21	TE-19112-20	16
22	TE-19112-21	8



Material	QTY
15/32"(1/2" A/C or CDX Plywood	6 sheets
23/32"(3/4") A/C or CDX Plywood	.5 sheet
2"x 4"x 8'	4.5
2"x 2"x 8'	5
1/8" Hardboard	0.5 sheet
2" Vison Tape	88"
2" Hook Fastener	334"
1.25" screws	~200
2.5" screws	~100

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NEXT ASSY	USED ON	
APPLICATION		DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±1/16
ANGULAR: MACH ±1° BEND ±1°
TWO PLACE DECIMAL ±.01
THREE PLACE DECIMAL ±.001

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

FIRST ROBOTICS COMPETITION

SOLIDWORKS Modeling Solutions Partner

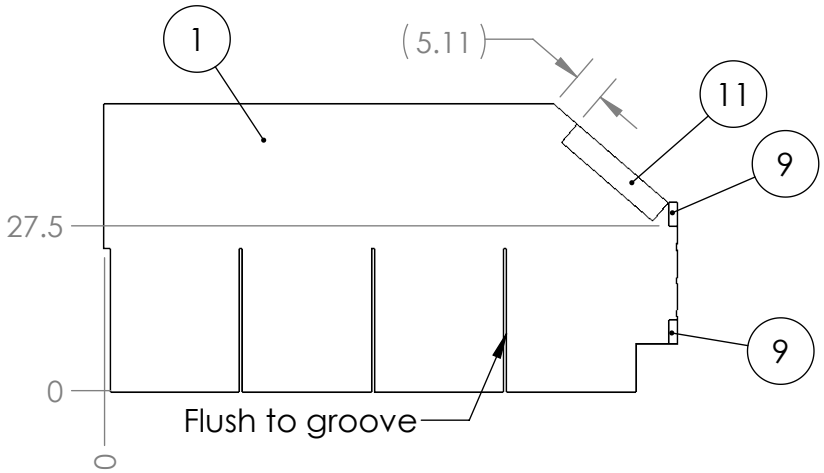
TITLE:

Full Cargo Ship

SIZE	DWG. NO.	REV
A	TE-19112	

SCALE: 1:32 WEIGHT: SHEET 1 OF 17

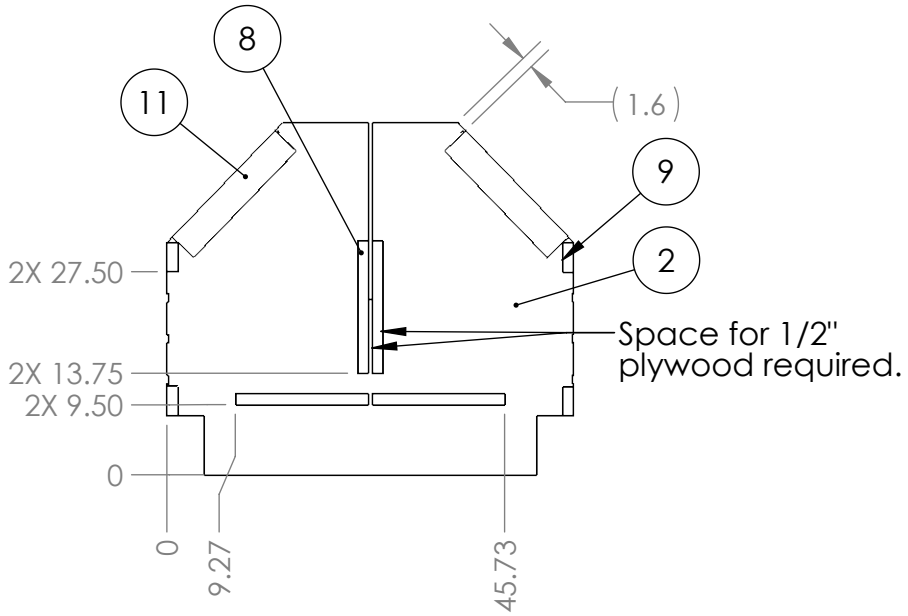
Subassembly 1:



Notes:

- Attach Items (9), and (11) to Item (1) as shown.
- Repeat on opposite side.
- Pre-drill and use 1.25 and 2.5" screws as necessary.

Subassembly 2:
QTY 1



Notes:

- Attach Items (8), (9) and (11) to Item (2) as shown.
- Pre-drill and use 1.25" screws as necessary.

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.001	DRAWN		
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
		MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

FIRST ROBOTICS COMPETITION

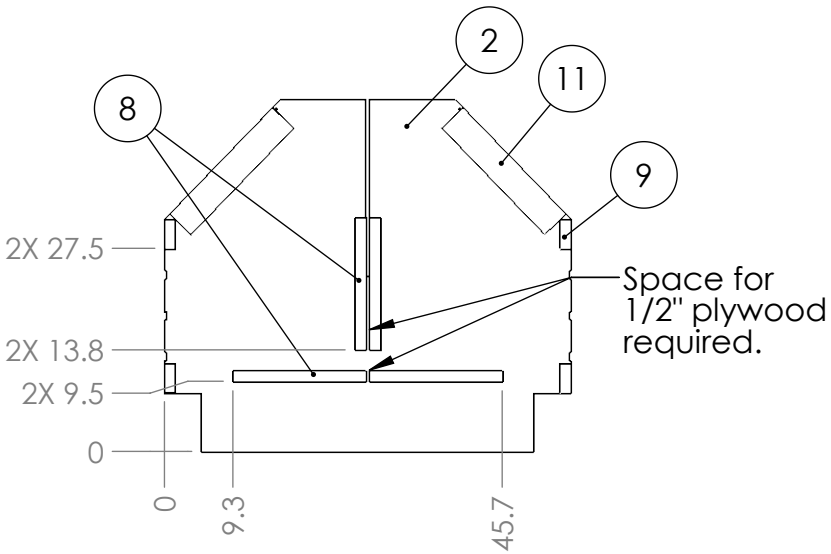
SOLIDWORKS Modeling Solutions Partner

TITLE:

Full Cargo Ship

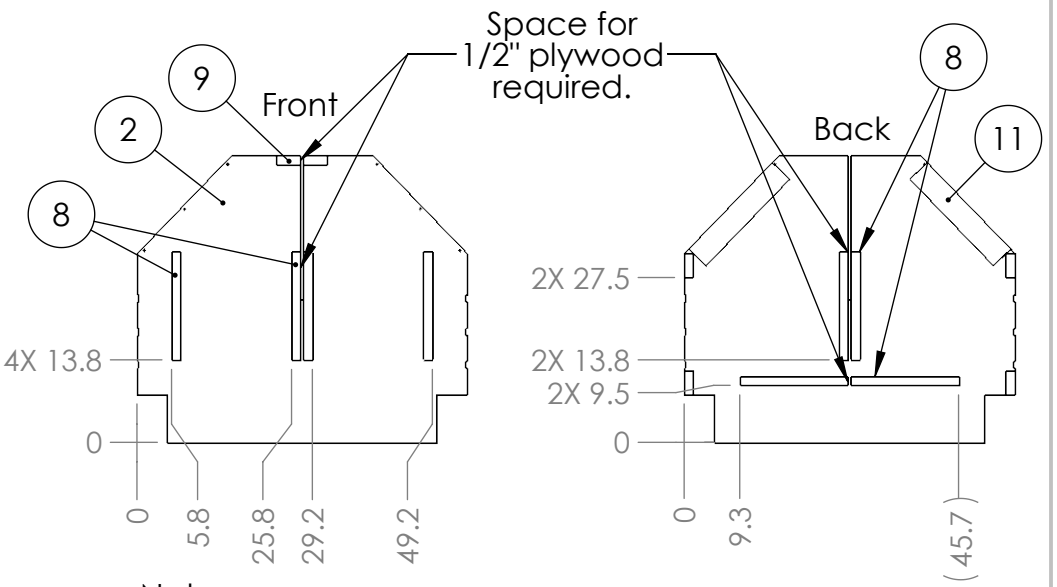
SIZE	DWG. NO.	REV
A	TE-19112	
SCALE: 1:32	WEIGHT:	SHEET 2 OF 17

Subassembly 3:
QTY(2)



Notes:
- Repeat on both sides
- Attach (9) x4 flush to surfaces of (2) as shown.
- Attach (11) x4 flush to surfaces of (2) as shown.
- Attach (8) x4 to (2) vertical flush to cutout
- Pre-drill and attach with 1.25" and 2.5" screws

Subassembly 4:
QTY(1)



Notes:
- Attach (9) to (2) flush to top and cutout.
- Attach (8) to (2) as shown. Middle items to be flush with cutout.
- Attach (11) flush to angled surfaces of (2).
- Pre-drill and attach with 1.25" and 2.5 " screws

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.001	DRAWN		
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
		MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

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FIRST ROBOTICS COMPETITION

SOLIDWORKS Modeling Solutions Partner

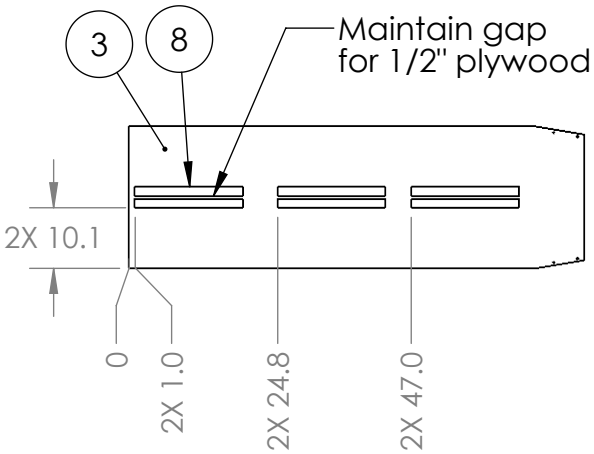
TITLE:

Full Cargo Ship

SIZE	DWG. NO.	REV
A	TE-19112	

SCALE: 1:32 | WEIGHT: | SHEET 3 OF 17

Subassembly 5:

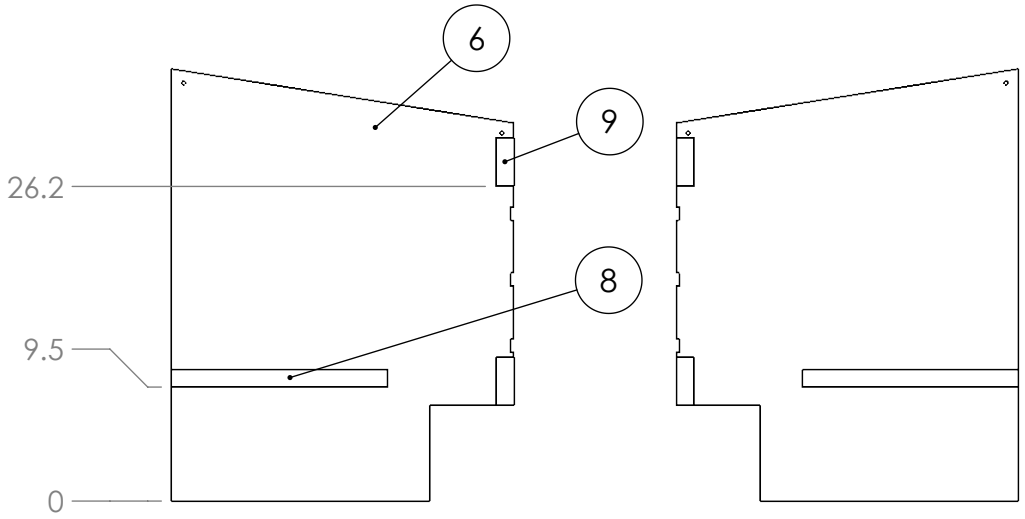


Notes:

- Attach (8) x6 to (3) as shown using 1.25" screws.

- Pre-drill as necessary.

Subassembly 6:



Mirrored Version

Notes:

- Attach (9) flush to surfaces of (6) as shown using 1.25" screws.

- Attach (8) to (6) as shown using 1.25" screws.

- Pre-drill as necessary.

- Repeat process to create a mirrored version of subassembly.

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		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.001	DRAWN		
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
		MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

FIRST ROBOTICS COMPETITION

SOLIDWORKS Modeling Solutions Partner

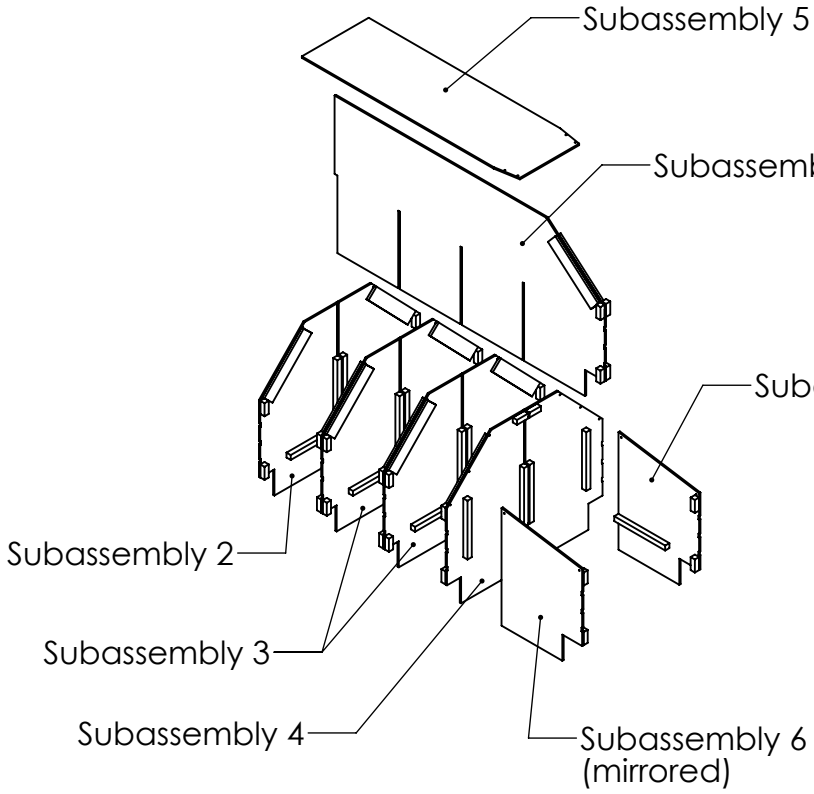
TITLE:

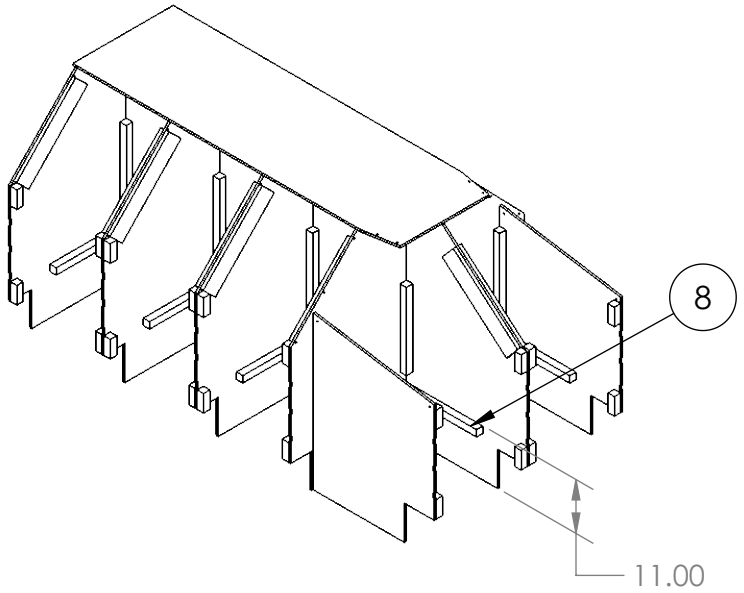
Full Cargo Ship

SIZE	DWG. NO.	REV
A	TE-19112	

SCALE: 1:32	WEIGHT:	SHEET 4 OF 17

Subassembly 9:





Notes:

- Lower Subassembly 1 onto Subassemblies 2, 3 and 4. Cutouts of the subassemblies should intersect. Secure with 2.5" screws at available cleats.

- Lower Subassembly 5 so that Subassembly 1 sits inside the cleats mounted on the bottom. Secure with 2.5" screws.

- Align Subassembly 6 (and mirrored) with the cleats on Subassembly 4. Secure with 1.25" screws.

- Attach Item (8) as shown on both sides of suSubassembly 1. Secure with 2.5" screws.

Step 9:

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			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
		MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

FIRST ROBOTICS COMPETITION

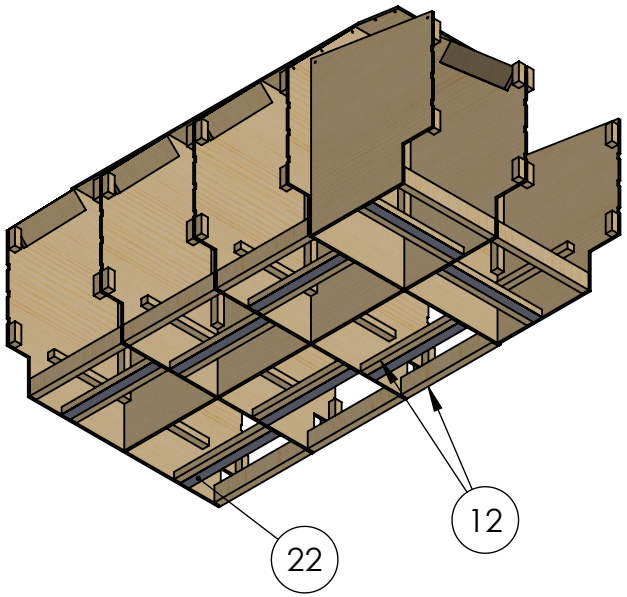
SOLIDWORKS Modeling Solutions Partner

TITLE:

Full Cargo Ship

SIZE	DWG. NO.	REV
A	TE-19112	

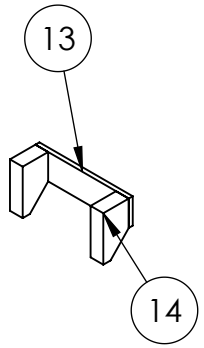
SCALE: 1:32	WEIGHT:	SHEET 5 OF 17



Note:

- Attach (12) 16X as shown using 1.25" screws. Stagger inner 2x4's for easy attachment. Outer 2x4's will require pre-drilling at an angle to attach.All 2x4's should be flush with the bottom of frames.

- Add (22) to the bottom of the inner 2x4's.

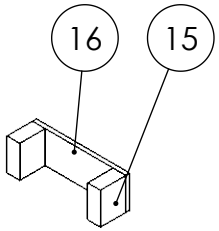


Subassembly 10:
QTY 8

Note:

- Attach (14) to (13) using 1.25" screws. Top surfaces should be flush.

- Pre-drill as necessary



Subassembly 11:
QTY 8

Note:

- Attach (15) to (16) using 1.25" screws. Top surfaces should be flush.

- Pre-drill as necessary.

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			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
		MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

FIRST ROBOTICS COMPETITION

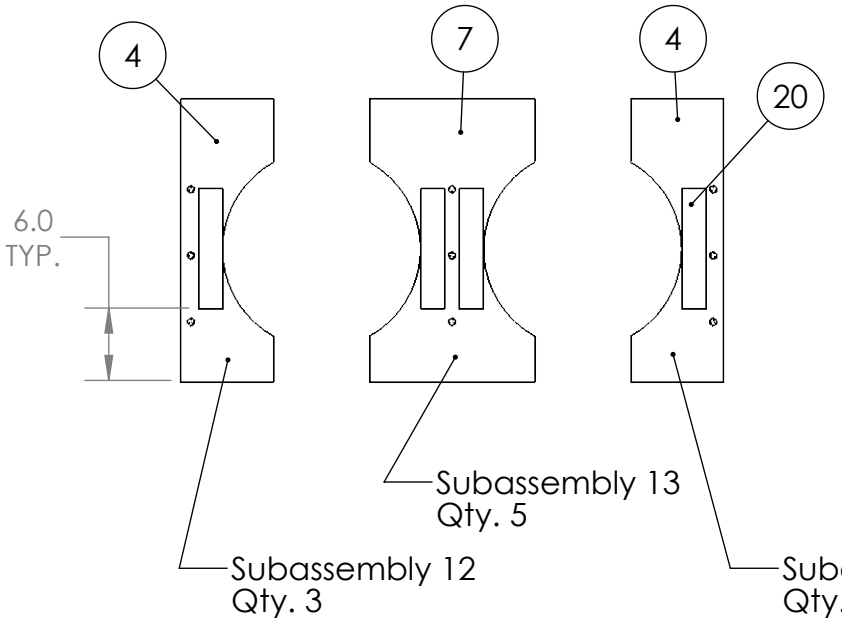
SOLIDWORKS Modeling Solutions Partner

TITLE:

Full Cargo Ship

SIZE	DWG. NO.	REV
A	TE-19112	

SCALE: 1:32 | WEIGHT: | SHEET 6 OF 17

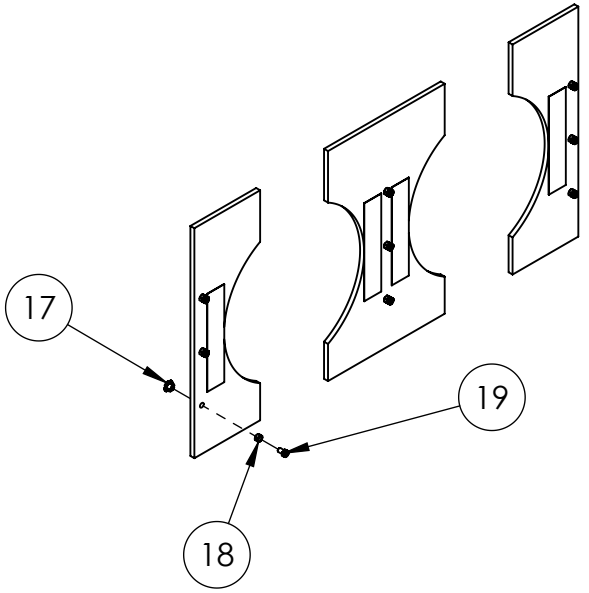


Note:

-Apply (20) to (4) and (7) as shown.

(20) should be tangent to the curve.

-Create the quantities listed.



Note:

-Press in (17) into each hole in subassembly 12, 13 and 14. Flange should be on the non-hook side of plywood. Use hammer if necessary.

-Thread (18) (19) into (17)

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		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.001	DRAWN		
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
		MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

FIRST ROBOTICS COMPETITION

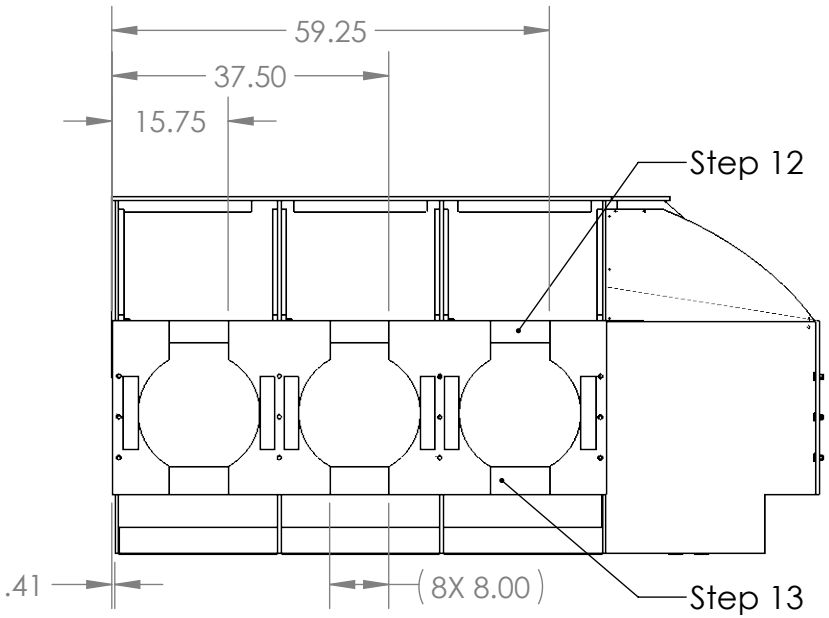
SOLIDWORKS Modeling Solutions Partner

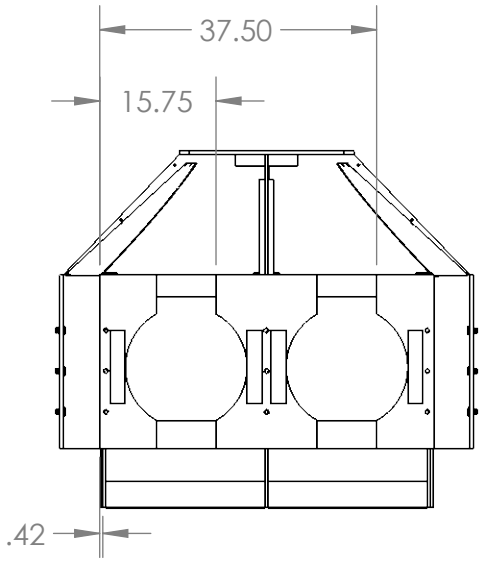
TITLE:

Full Cargo Ship

SIZE	DWG. NO.	REV
A	TE-19112	

SCALE: 1:32 | WEIGHT: | SHEET 7 OF 17





Note:
- Attach Subassemblies 12, 13 and 14 as shown using 1.25" screws.
- Attach Subassemblies 10 and 11 as shown using 1.25" screws.
-Pre-drill as necessary.

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NEXT ASSY	USED ON	
APPLICATION		DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±1/16
ANGULAR: MACH ±1° BEND ±1°
TWO PLACE DECIMAL ±.01
THREE PLACE DECIMAL ±.001

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

FIRST ROBOTICS COMPETITION

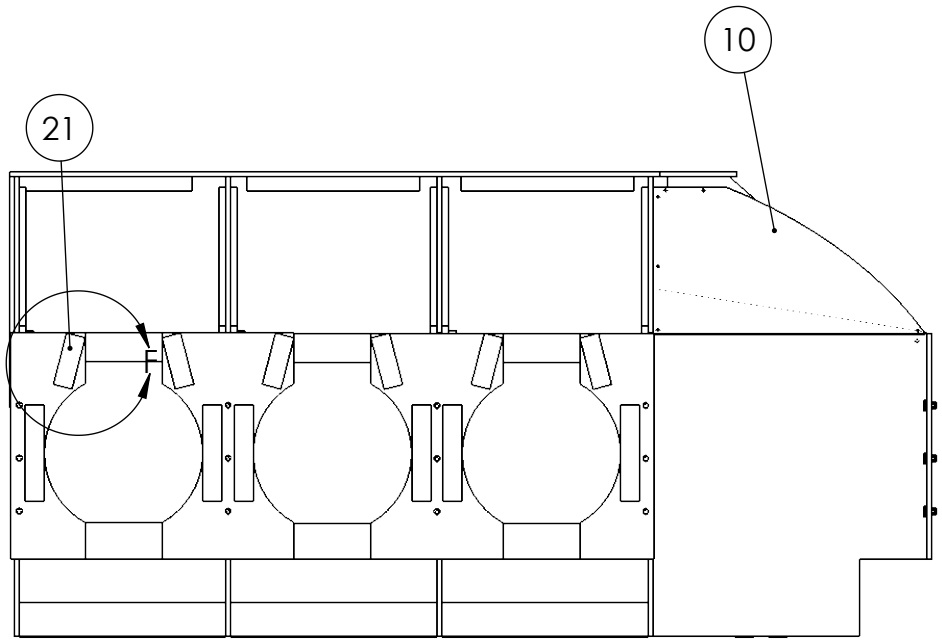
SOLIDWORKS Modeling Solutions Partner

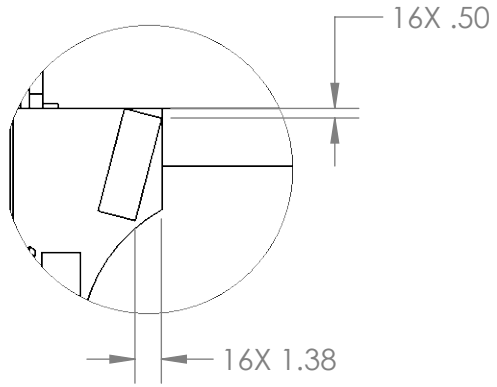
TITLE:

Full Cargo Ship

SIZE	DWG. NO.	REV
A	TE-19112	

SCALE: 1:32 | WEIGHT: | SHEET 8 OF 17





DETAIL F
SCALE 1 : 10

Notes:

- Apply (21) as shown.
- Attach (10) with cable ties. Quantity 2.

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		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.001	DRAWN		
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
		MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

FIRST ROBOTICS COMPETITION

SOLIDWORKS Modeling Solutions Partner

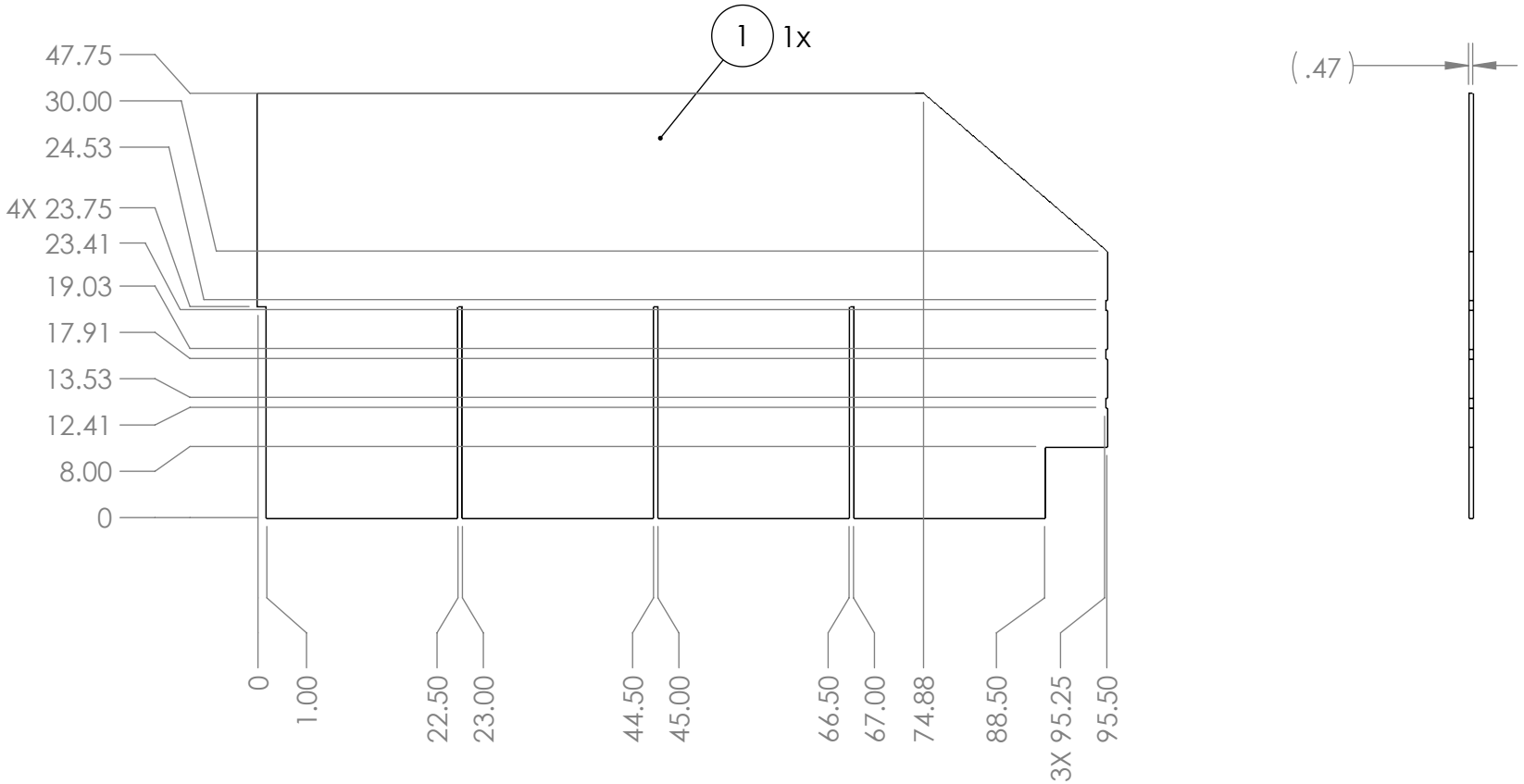
TITLE:

Full Cargo Ship

SIZE	DWG. NO.	REV
A	TE-19112	

SCALE: 1:32	WEIGHT:	SHEET 9 OF 17

TE-19112-01



Note:
Material 15/32" (1/2") A/C or CDX Plywood

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.001	DRAWN		
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
		MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

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FIRST ROBOTICS COMPETITION

SOLIDWORKS Modeling Solutions Partner

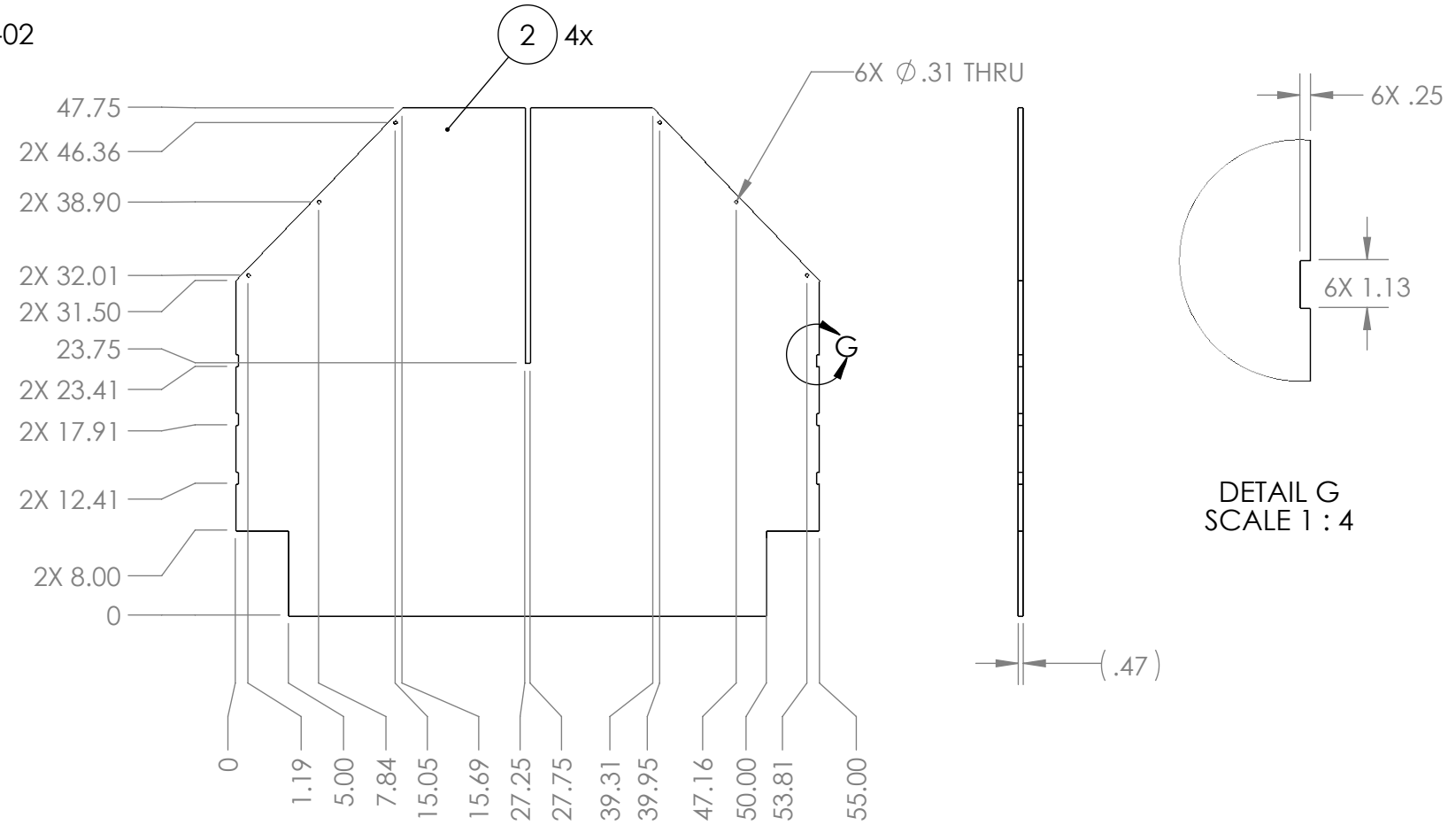
TITLE:

Full Cargo Ship

SIZE	DWG. NO.	REV
A	TE-19112	

SCALE: 1:32 | WEIGHT: | SHEET 10 OF 17

TE-19112-02



DETAIL G
SCALE 1 : 4

Note:
Material 15/32" (1/2") A/C or CDX Plywood

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.001	DRAWN		
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
		MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

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FIRST ROBOTICS COMPETITION

SOLIDWORKS Modeling Solutions Partner

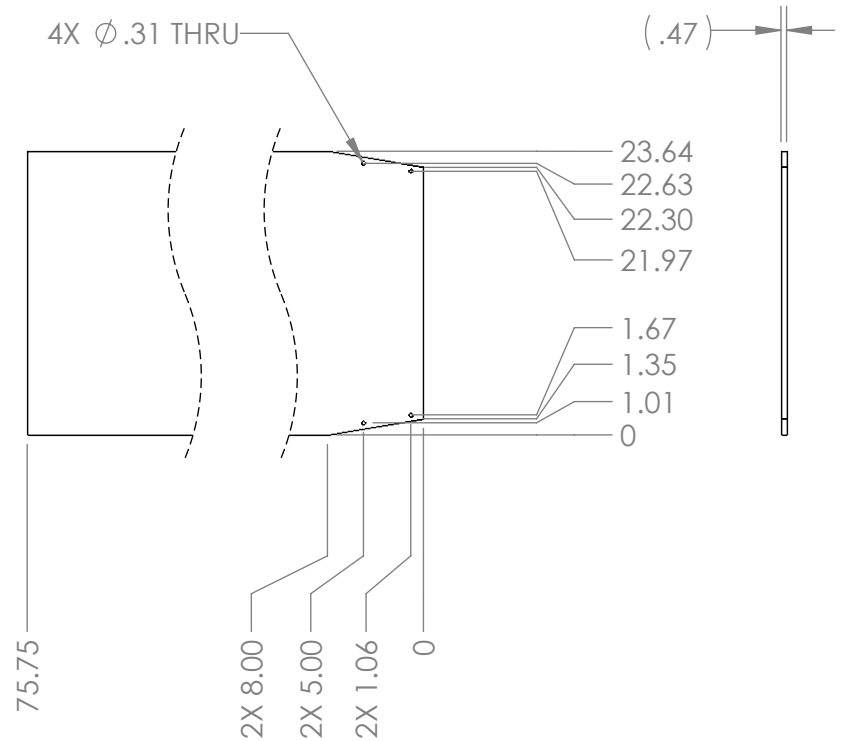
TITLE:

Full Cargo Ship

SIZE	DWG. NO.	REV
A	TE-19112	

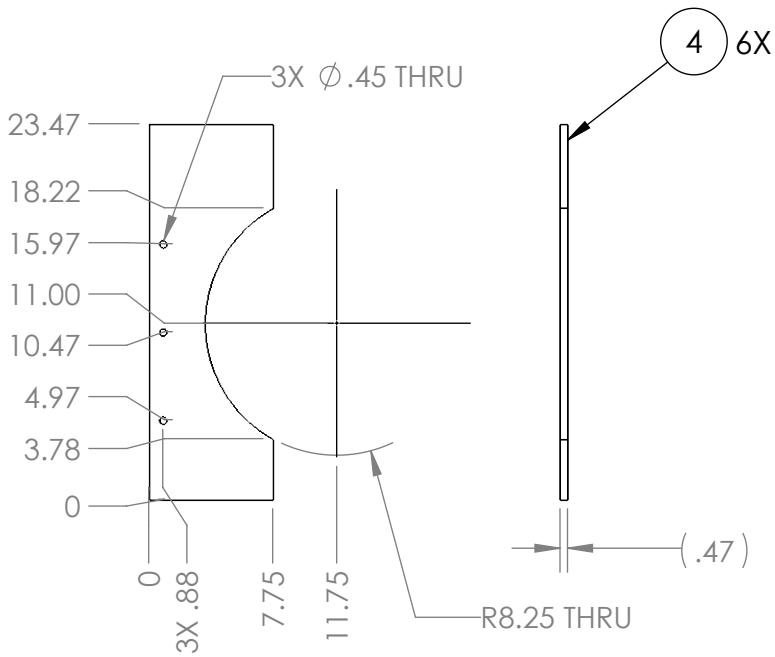
SCALE: 1:32 WEIGHT: SHEET 11 OF 17

TE-19112-03



Note:
Material 15/32" (1/2") A/C or CDX Plywood

TE-19112-04



Note:
Material 15/32" (1/2") A/C or CDX Plywood

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.001	DRAWN		
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
		MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

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FIRST ROBOTICS COMPETITION

SOLIDWORKS Modeling Solutions Partner

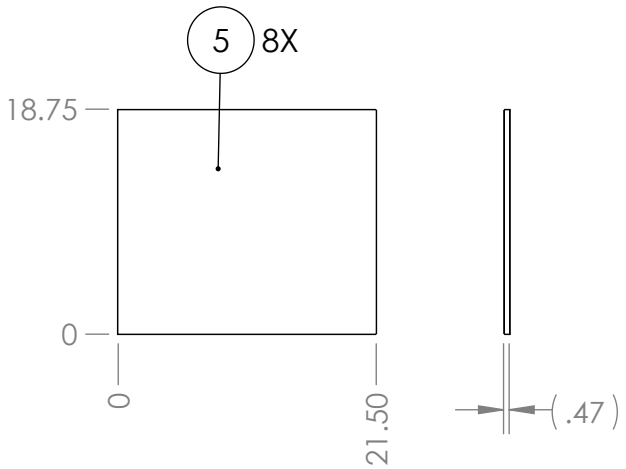
TITLE:

Full Cargo Ship

SIZE	DWG. NO.	REV
A	TE-19112	

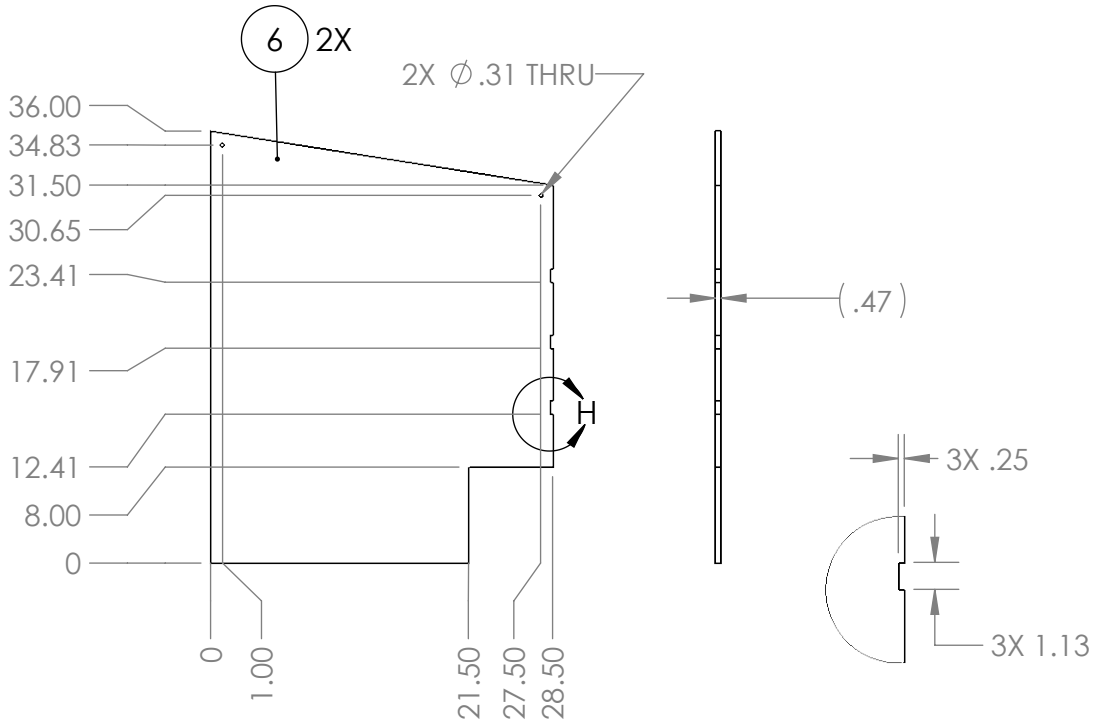
SCALE: 1:32 | WEIGHT: | SHEET 12 OF 17

TE-19112-05



Note:
Material 15/32" (1/2") A/C or CDX Plywood

TE-19112-06



DETAIL H
SCALE 1 : 8

Note:
Material 15/32" (1/2") A/C or CDX Plywood

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.001	DRAWN		
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
		MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

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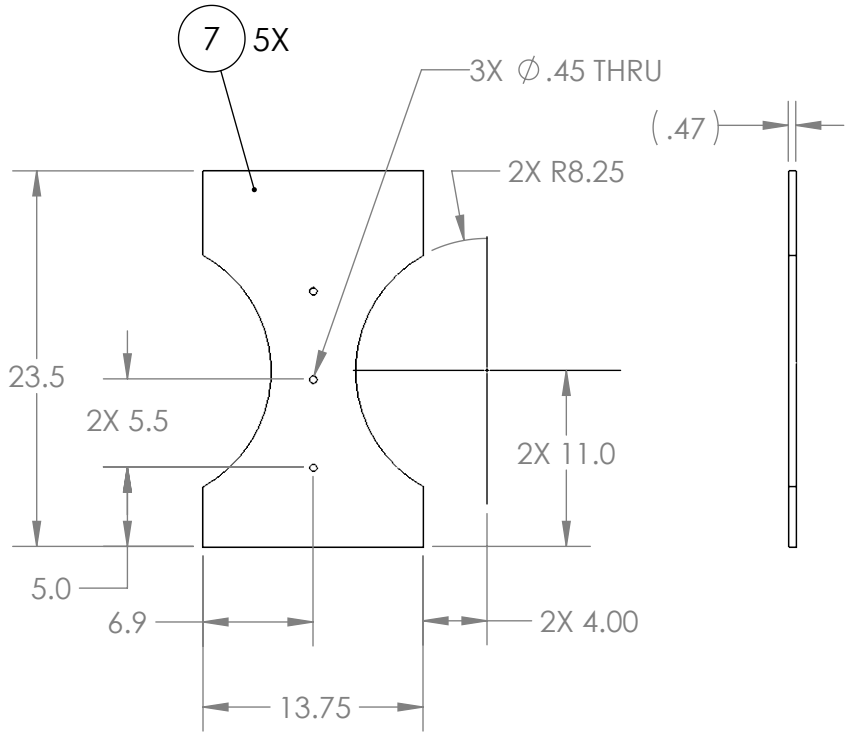
FIRST ROBOTICS COMPETITION
SOLIDWORKS Modeling Solutions Partner

TITLE:
Full Cargo Ship

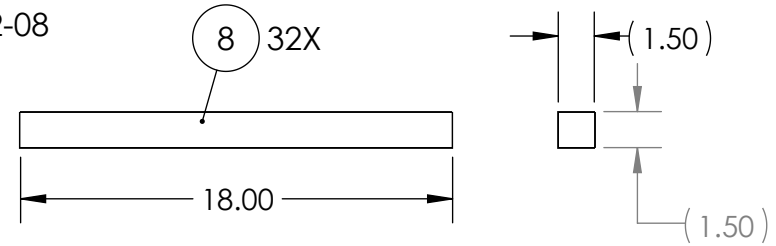
SIZE	DWG. NO.	REV
A	TE-19112	
SCALE: 1:32	WEIGHT:	SHEET 13 OF 17

TE-19112-07



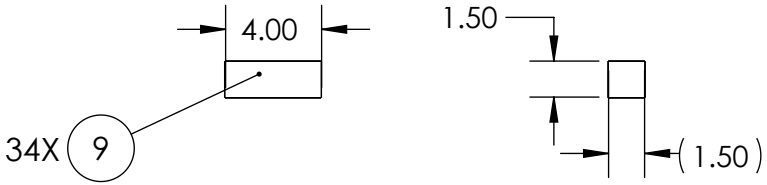
Note:
Material 15/32" (1/2") A/C or CDX Plywood

TE-19112-08



Note:
Material 2"x 2" Lumber Pine

TE-19112-09



Note:
Material 2"x 2" Lumber Pine

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.001	DRAWN		
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
		MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

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FIRST ROBOTICS COMPETITION

SOLIDWORKS Modeling Solutions Partner

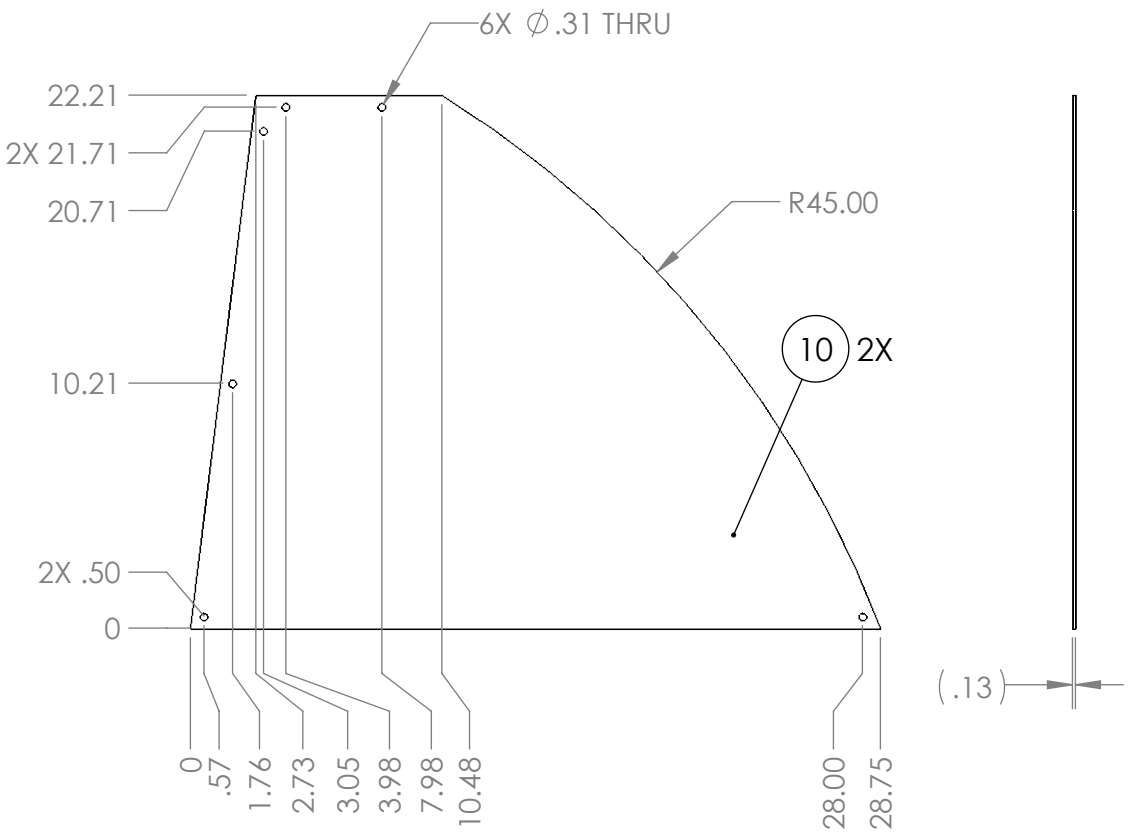
TITLE:

Full Cargo Ship

SIZE	DWG. NO.	REV
A	TE-19112	

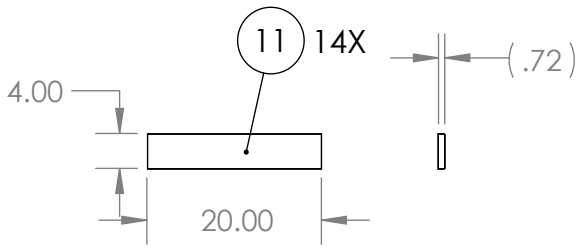
SCALE: 1:32 | WEIGHT: | SHEET 14 OF 17

TE-19112-10



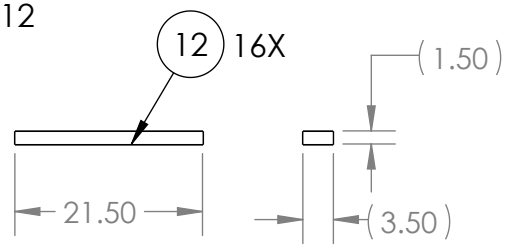
Note:
Material 1/8" Hardboard

TE-19112-11



Note:
23/32"(3/4") A/C or CDX Plywood

TE-19112-12



Note:
2"x4" Pine Lumber

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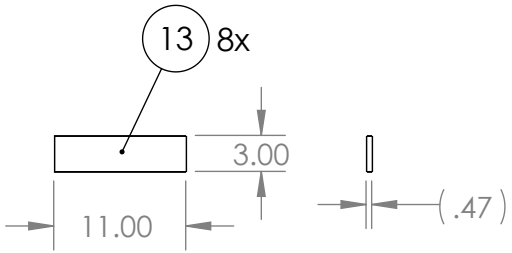
TITLE:

Full Cargo Ship

SIZE	DWG. NO.	REV
A	TE-19112	

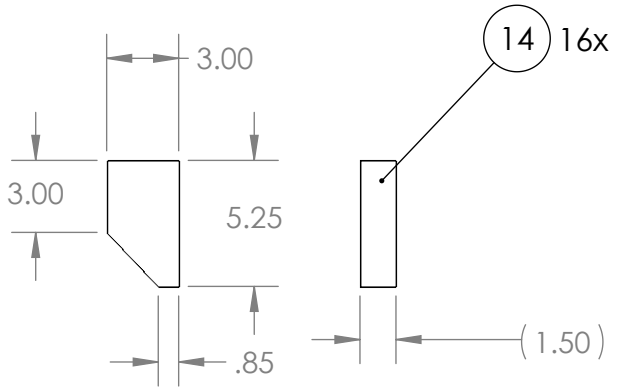
SCALE: 1:32 | WEIGHT: | SHEET 15 OF 17

TE-19112-13



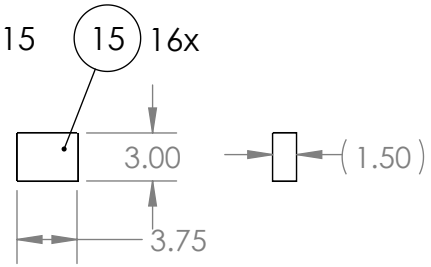
Note:
15/32" (1/2") A/C or CDX Plywood

TE-19112-14



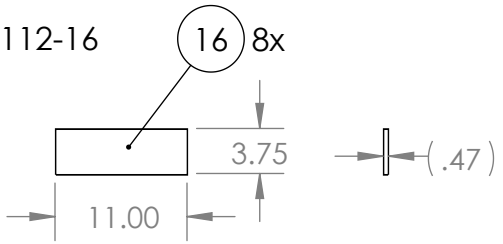
Note:
2"x 4" Pine lumber

TE-19112-15



Note:
2"x 4" Pine lumber

TE-19112-16



Note:
15/32" (1/2") A/C or CDX Plywood

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.001	DRAWN		
			CHECKED		
			ENG APPR.		
			MFG APPR.		
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FIRST ROBOTICS COMPETITION

SOLIDWORKS Modeling Solutions Partner

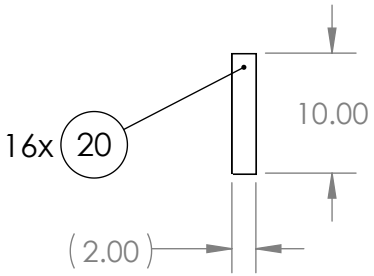
TITLE:

Full Cargo Ship

SIZE	DWG. NO.	REV
A	TE-19112	

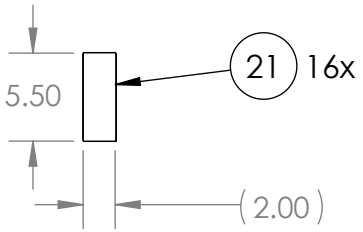
SCALE: 1:32 | WEIGHT: | SHEET 16 OF 17

TE-19112-19



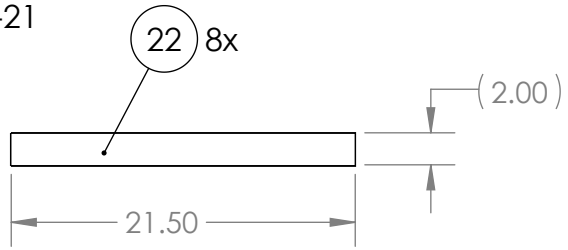
2" Hook Fastener

TE-19112-20



2" Vison Tape

TE-19112-21



2" Hook Fastener

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.001	DRAWN		
			CHECKED		
			ENG APPR.		
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		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
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FIRST ROBOTICS COMPETITION

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TITLE:

Full Cargo Ship

SIZE	DWG. NO.	REV
A	TE-19112	

SCALE: 1:32 | WEIGHT: | SHEET 17 OF 17