

2

PART NUMBER	DESCRIPTION	QTY.
Particle Board 4' x 4' x 3/8" thick	or similar - can be cut from two 4' x 8' sheets	4
FRP 4' x 4'	White, Lowes Item #8566 - can be cut from two 4' x 8' sheets	4
FRP Divider 48" long	White - can be cut from one 8' long part	2
10' PVC Pipe	1" ID SCH 40	6
2' PVC Pipe	3" ID SCH 40 Cellular Core PVC-DWV Non-Pressure	1
PVC Elbow	1" ID SCH 40	12
PVC Coupler	1" ID SCH 40	2
PVC T Connector	1" ID SCH 40	20
PVC Coupler	1.5" ID SCH 40	2
PVC Coupler	3" ID SCH 40	2
Corrugated Plastic	18" x 24" x 3/16"(or 4mm) thick	6

1

PART NUMBER	DESCRIPTION	QTY.
96" of 2 x 4 Wood (Actual: 1.5" x 3.5")	Will be cut into 3.5" segments	1
3/4" x 1" x 3/16" Ceramic Block Magnets	Lowes #542020 (Pack of 3)	2
3/8 Flat Washers - Steel	0.447" ID, 1" OD 0.071" Thick	4
8 lb Twisted Mason Twine	Lowes #0349289 325' x #15 - White	1
Black Duct tape	Duck Brand Duct tape	1 Roll
White Duct tape	Duck Brand Duct tape	1 Roll
Silver Duct tape	Duck Brand - Silver - 394475	1 Roll
Blue Duct tape	Duck Brand - Blue - 1304959	1 Roll
Neon Orange Duct tape	Duck Brand - Neon Orange - 1265019	1 Roll
Red Mini Duct tape	Duck Brand - Red - MDT-2327	1 Roll
Green Mini Duct tape	Duck Brand - Green - MDT-1477	1 Roll

B

B

A

A

TITLE:

2019 Botball Game Materials

SIZE

**A**

DWG. NO.

REV

SCALE: 1:50 WEIGHT:

SHEET 1 OF 1

2

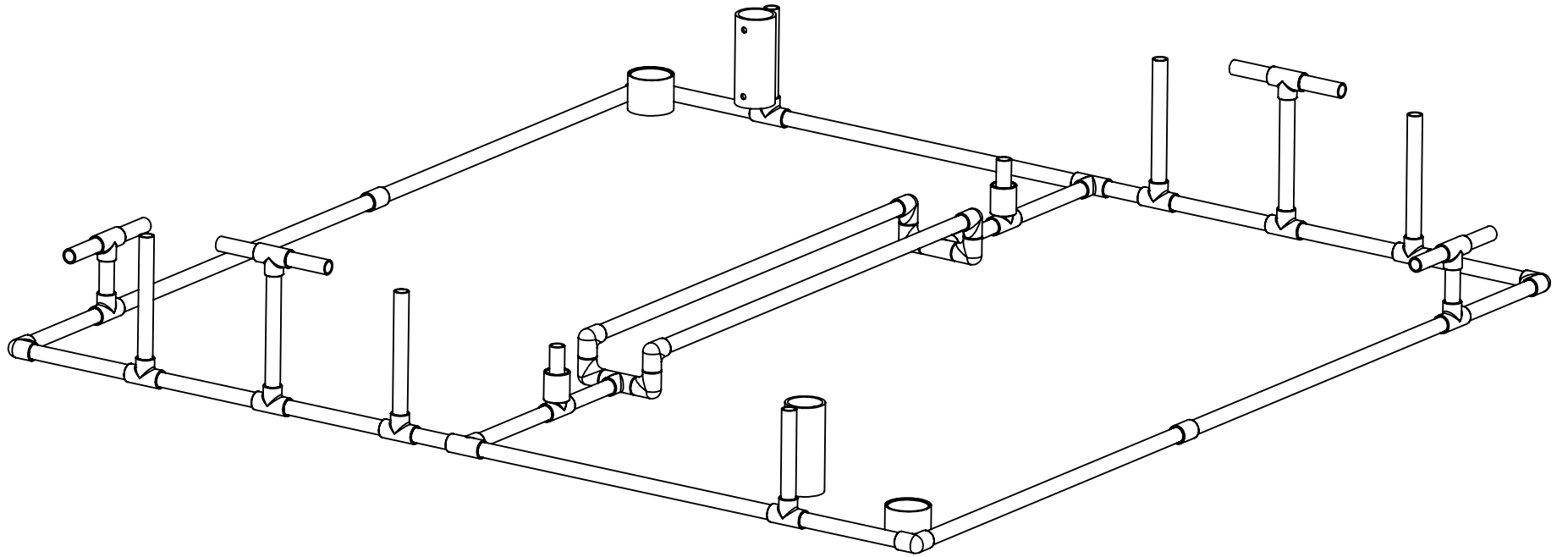
1

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B

B



A

A

TITLE:

# 2019 PVC Assembly

SIZE	DWG. NO.	REV
<b>A</b>	PVC Assembly	
SCALE: 1:14	WEIGHT:	SHEET 1 OF 6

2

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	1.875 inch PVC	1" ID SCH 40	8
2	5.000 inch PVC	1" ID SCH 40	12
3	5.625 inch PVC	1" ID SCH 40	2
4	8.000 inch PVC	3" ID SCH 40 Cellular Core PVC-DWV Non-Pressure	2
5	8.125 inch PVC	1" ID SCH 40	2
6	9.000 inch PVC	1" ID SCH 40	2
7	12.000 inch PVC	1" ID SCH 40	18
8	32.375 inch PVC	1" ID SCH 40	2
9	39.750 inch PVC	1" ID SCH 40	4
10	47.000 inch PVC	1" ID SCH 40	2
11	PVC Coupler	1" ID SCH 40	2
12	PVC Coupler	1.5" ID SCH 40	2
13	PVC Coupler	3 " ID SCH 40	2
14	PVC Elbow	1" ID SCH 40	12
15	PVC T Connector	1"ID SCH 40	20

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TITLE:

### Build of Materials

SIZE	DWG. NO.	REV
<b>A</b>	PVC Assembly	
SCALE: 1:50	WEIGHT:	SHEET 2 OF 6

2

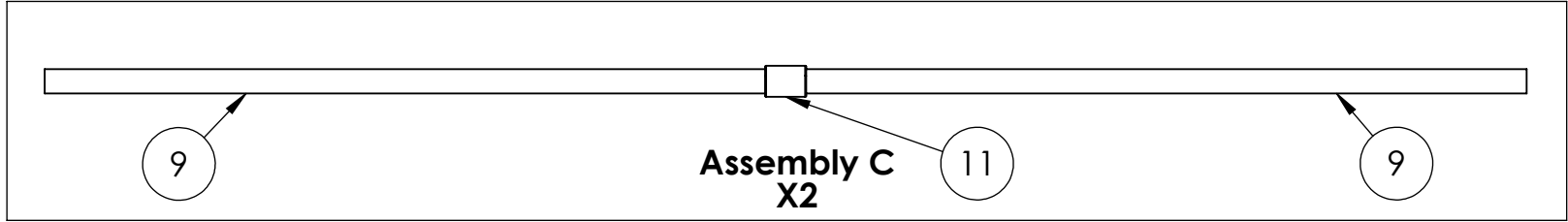
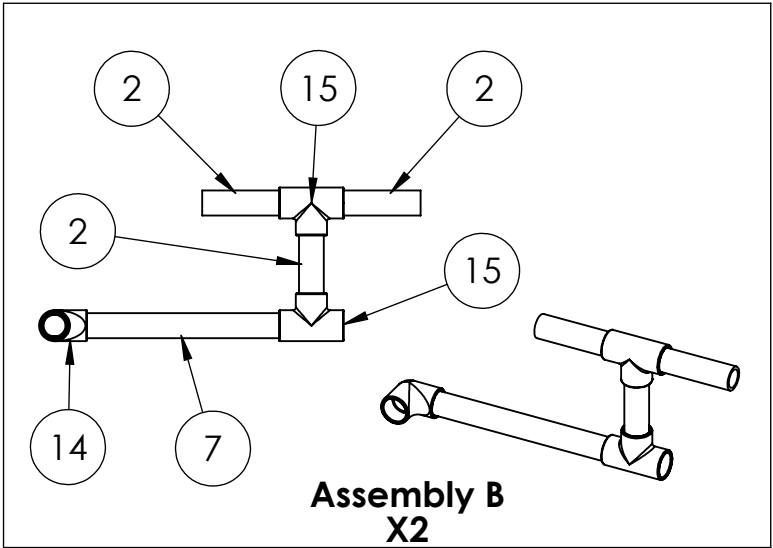
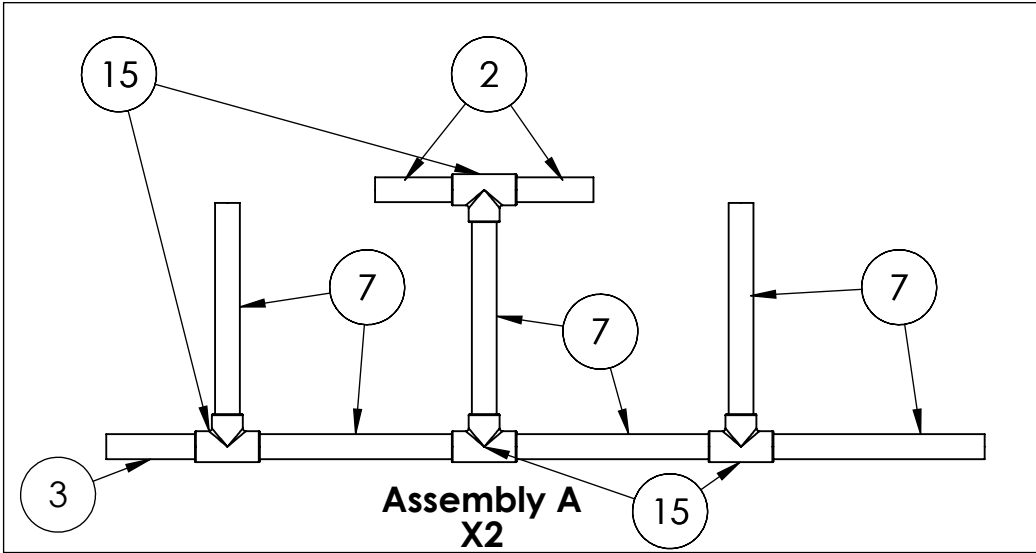
1

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B

B

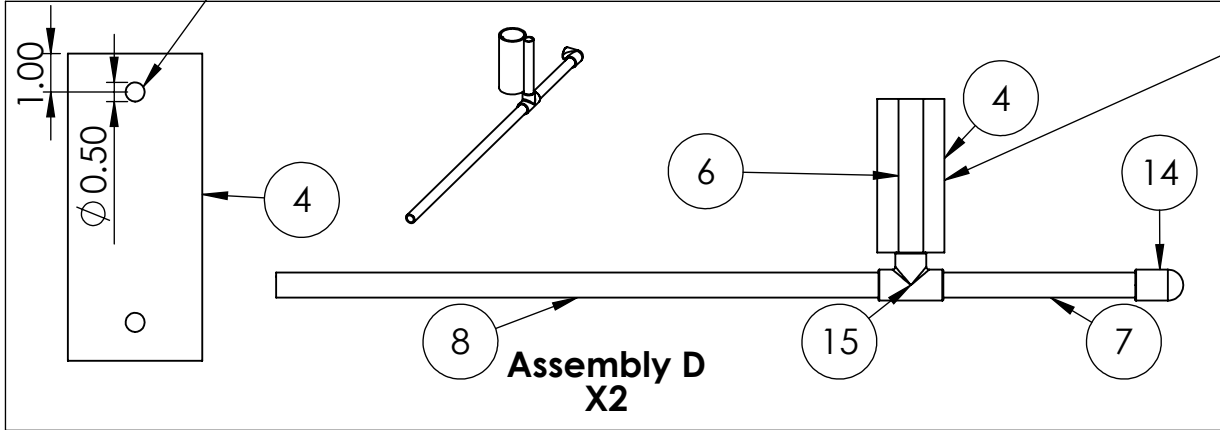


Holes should be drilled in piece 4 so that screws can be used to attach this piece to 6.

Screw 4 onto 6 facing into the the board tangent to 6's edge of the board.

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A



TITLE:		
<b>Assemblies A - D</b>		
SIZE	DWG. NO.	REV
<b>A</b>	PVC Assembly	
SCALE: 1:10	WEIGHT:	SHEET 3 OF 6

2

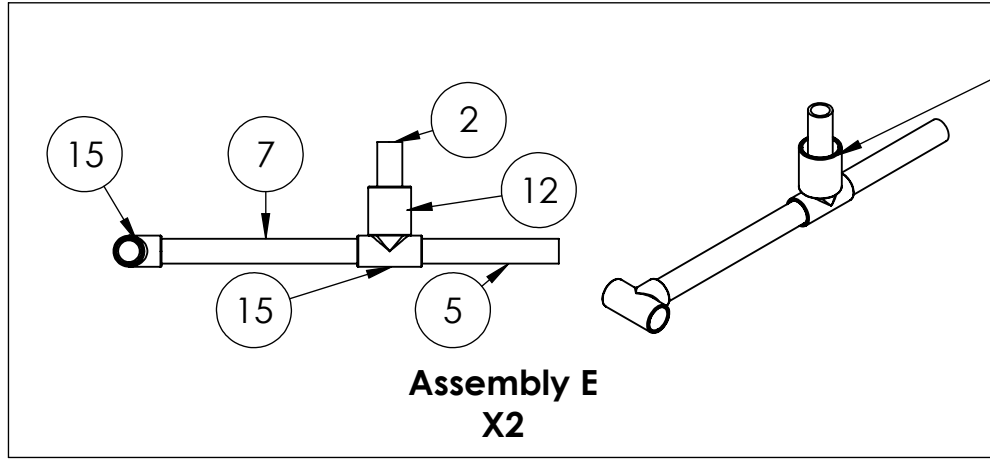
1

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B

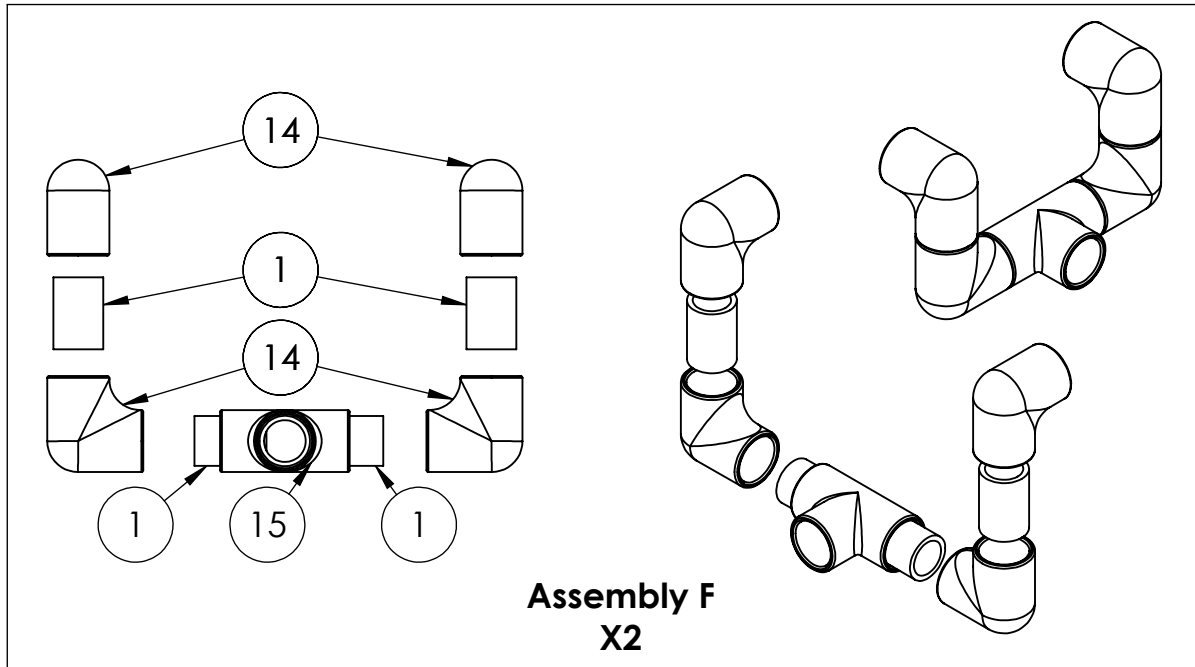
B



Piece 12 freely sitting, not attached

A

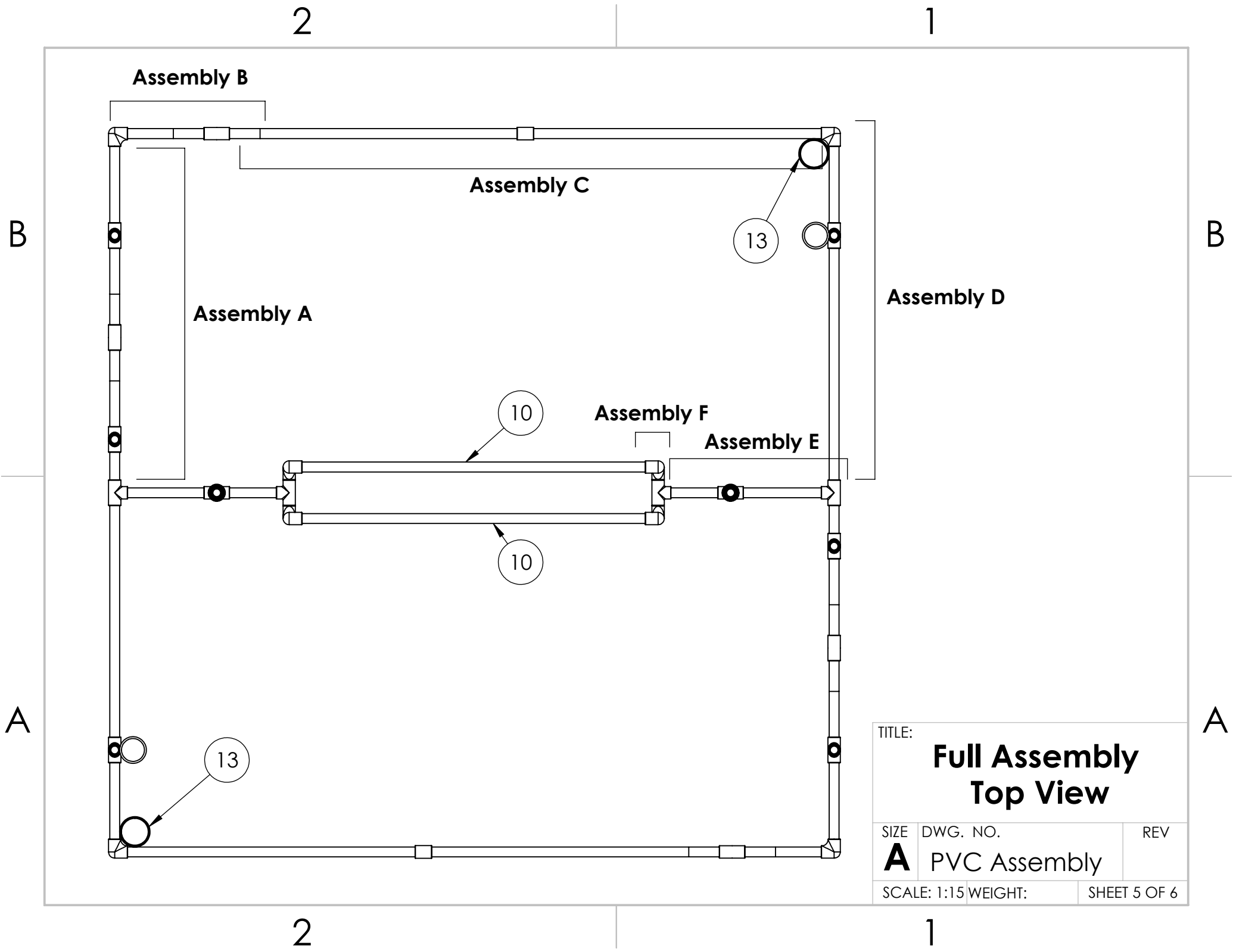
A



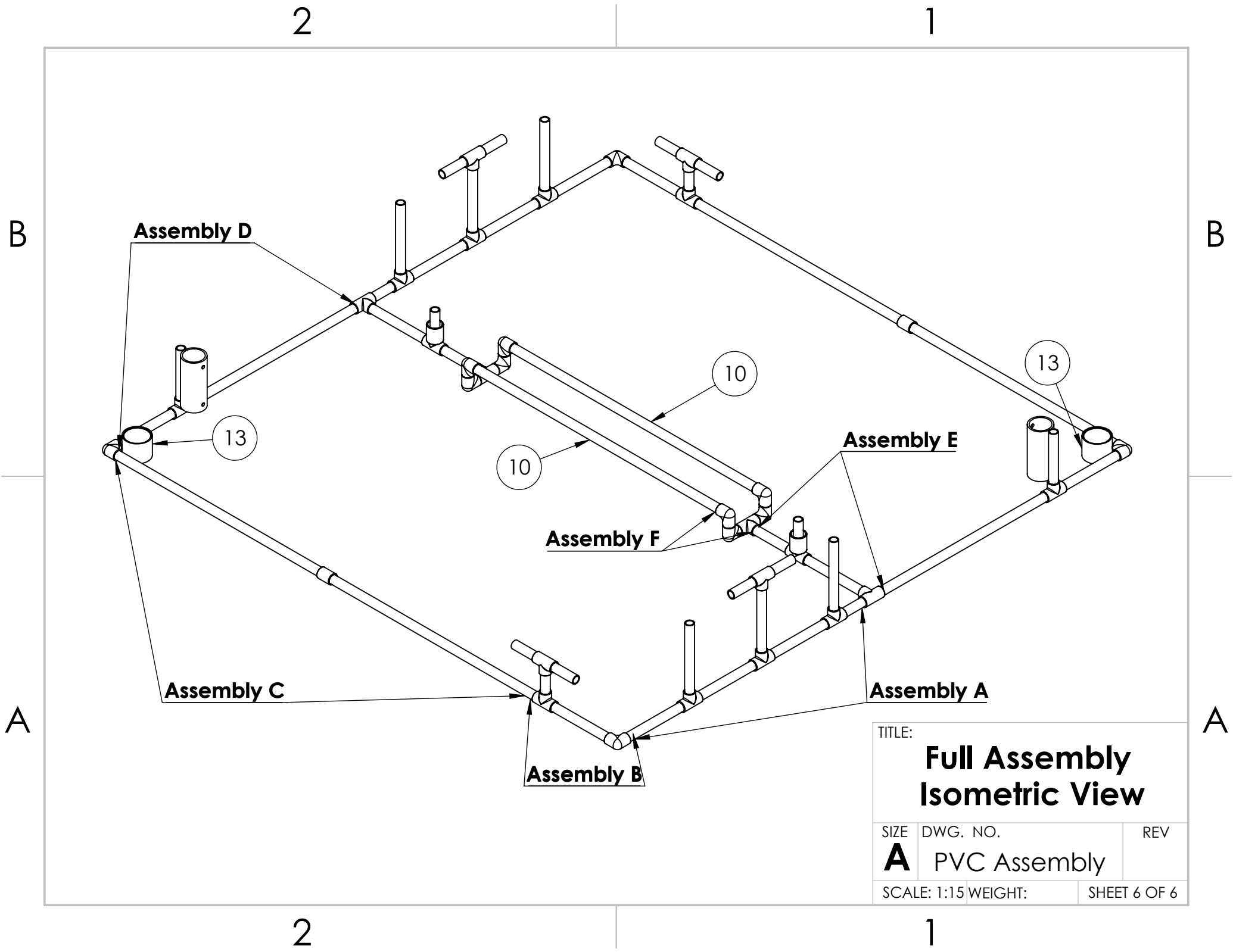
TITLE:		
<b>Assemblies E-F</b>		
SIZE	DWG. NO.	REV
<b>A</b>	PVC Assembly	
SCALE: 1:5-1:10	WEIGHT:	SHEET 4 OF 6

2

1



TITLE:		
<b>Full Assembly Top View</b>		
SIZE	DWG. NO.	REV
<b>A</b>	PVC Assembly	
SCALE: 1:15	WEIGHT:	SHEET 5 OF 6



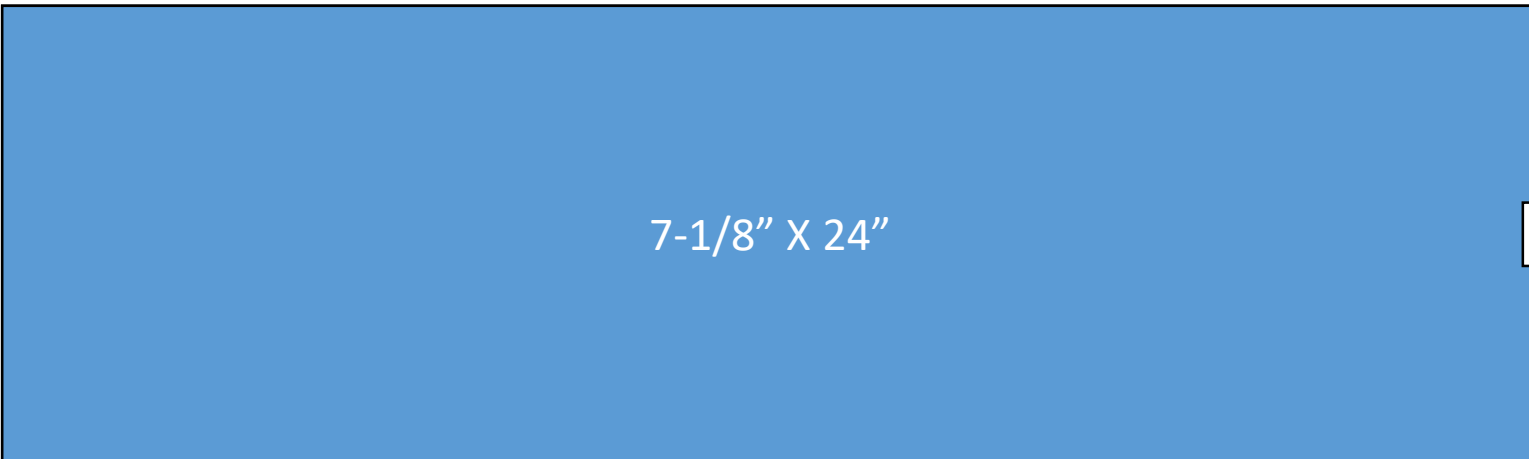
TITLE:		
<b>Full Assembly Isometric View</b>		
SIZE	DWG. NO.	REV
<b>A</b>	PVC Assembly	
SCALE: 1:15	WEIGHT:	SHEET 6 OF 6

# Instructions

- Each cut sheet will need to be done twice
- Blue cuts form the 24" building with the 7-1/8" X 5" pieces 1" from the top and bottom of the building.
- Green cuts form the 18" buildings with the 7-1/8" X 5" pieces 1" from the top and bottom of the building.
- Yellow cuts form the 6" building with the 3-1/2" X 3-1/2" pieces 1" from the top and bottom of the building. The 2x4 wood specified in the Game Board Materials document is used as the base of this building so that the building can be attached to the PVC at the edge of the board with screws.
- Red cuts are the platforms to be placed on the sides of the buildings.



24"



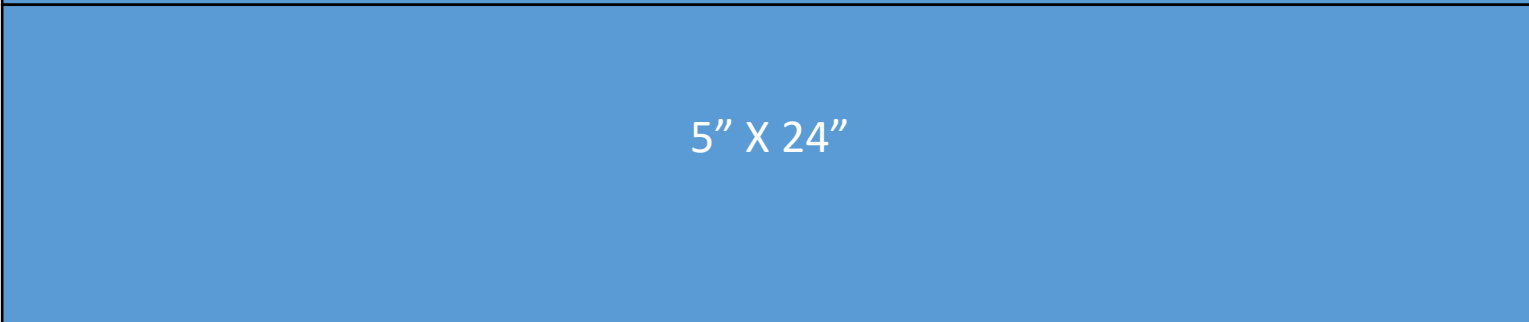
$7\frac{1}{8}'' \times 24''$

$\frac{1}{4}'' \times 1''$

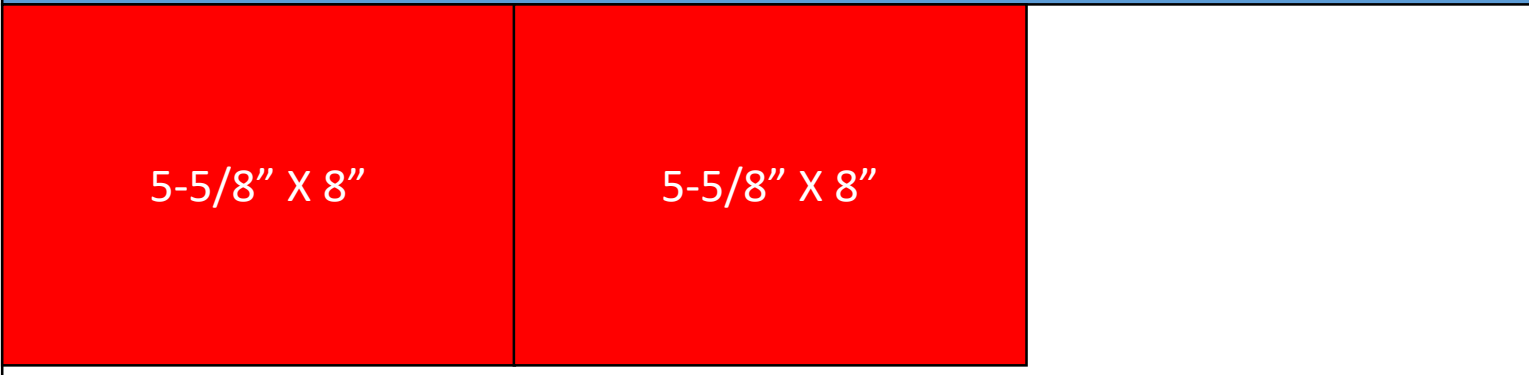
Centered



18"



$5'' \times 24''$

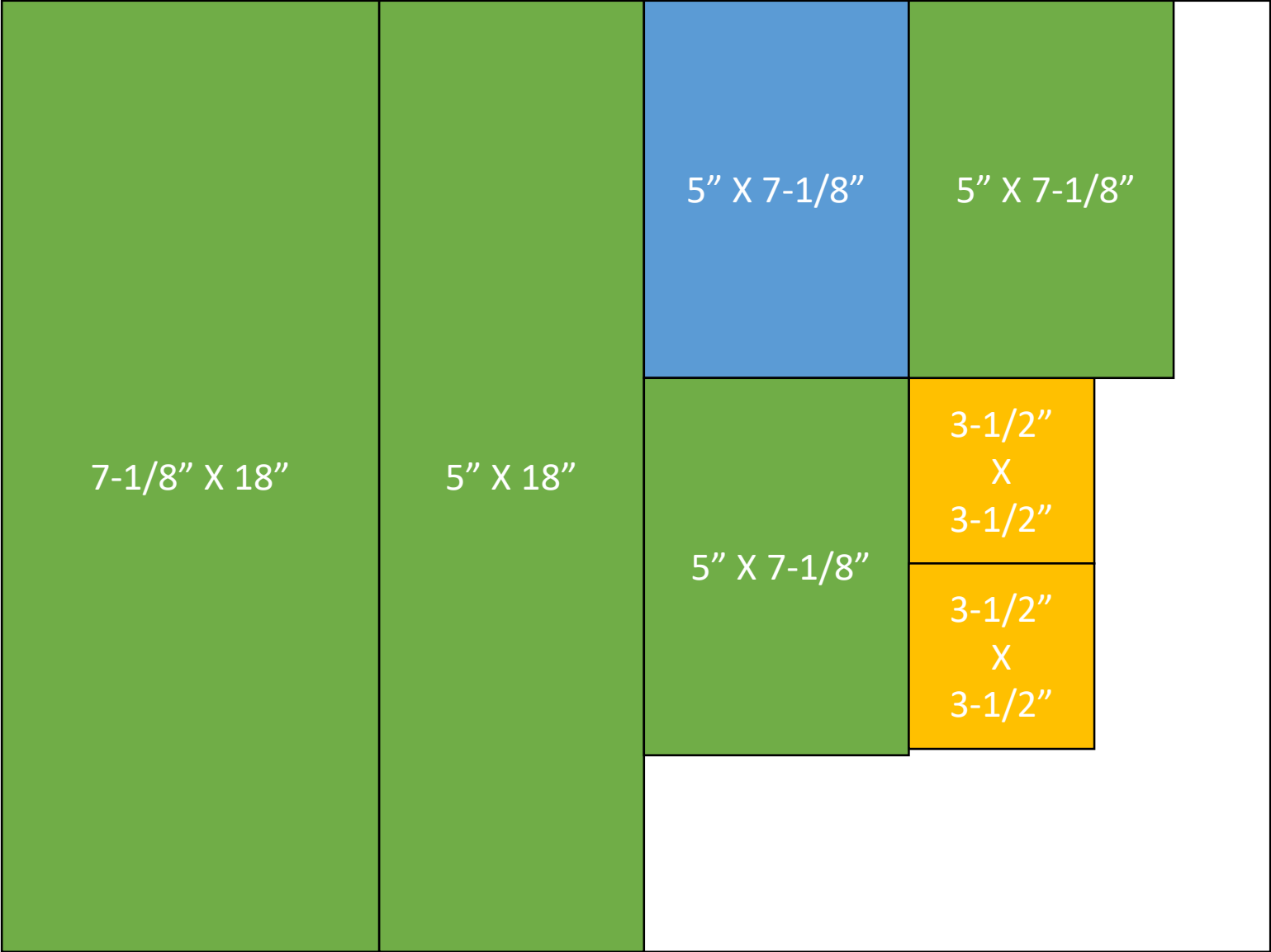


$5\frac{5}{8}'' \times 8''$

$5\frac{5}{8}'' \times 8''$

24"

18"



24"

18"

7-1/8" X 18"

5" X 18"

3-1/2"  
X  
6"

3-1/2"  
X  
6"

3-1/2"  
X  
6"

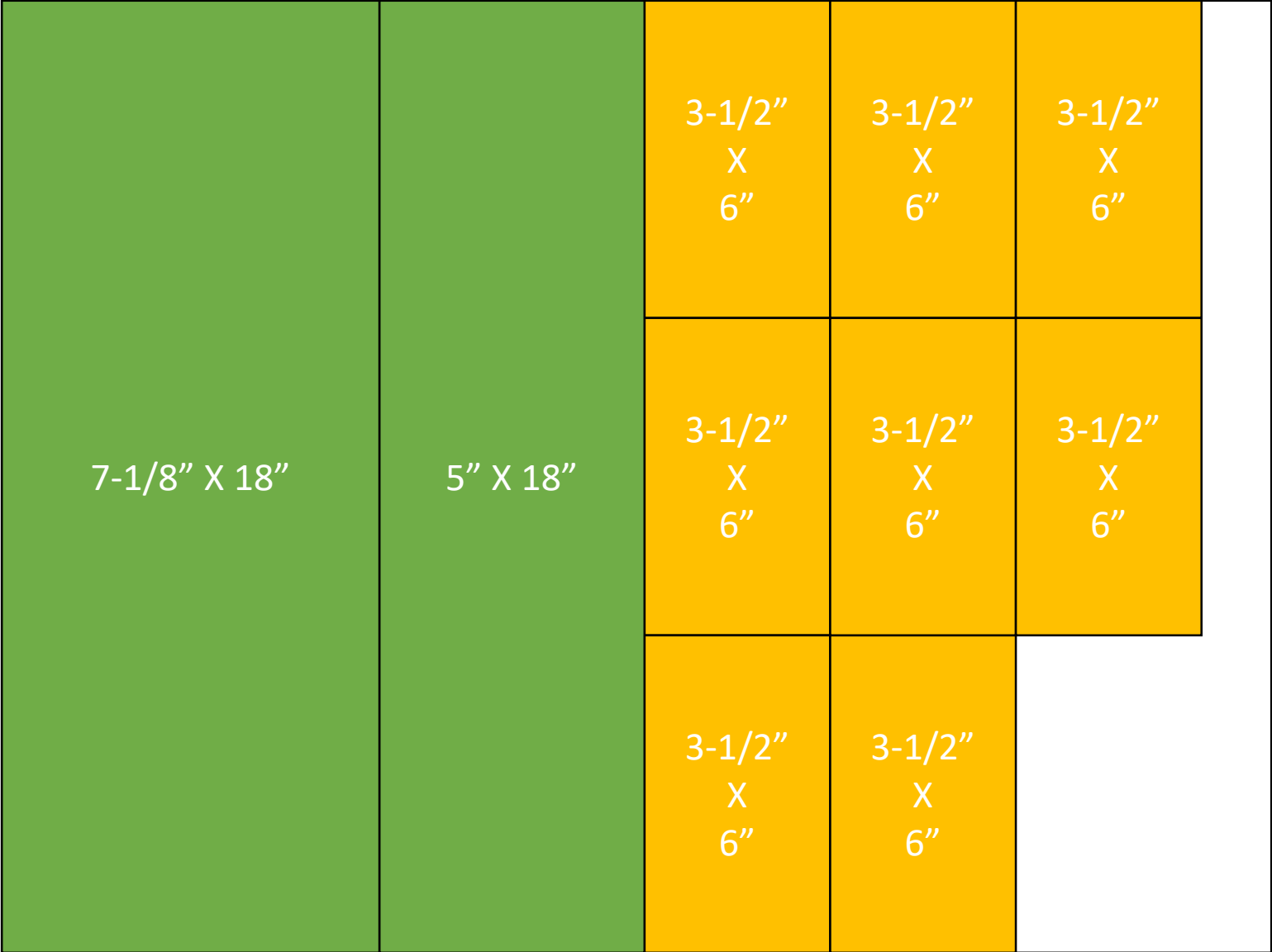
3-1/2"  
X  
6"

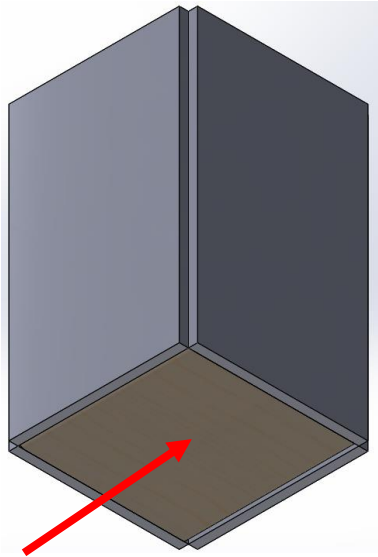
3-1/2"  
X  
6"

3-1/2"  
X  
6"

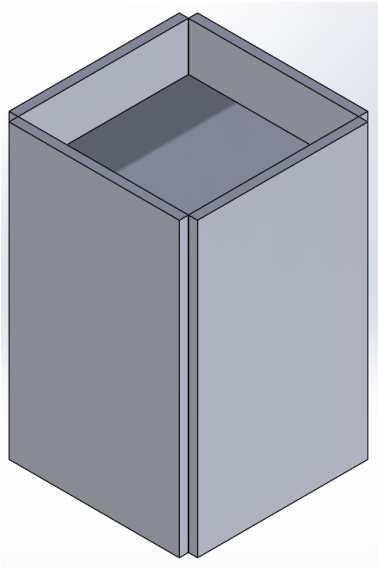
3-1/2"  
X  
6"

3-1/2"  
X  
6"

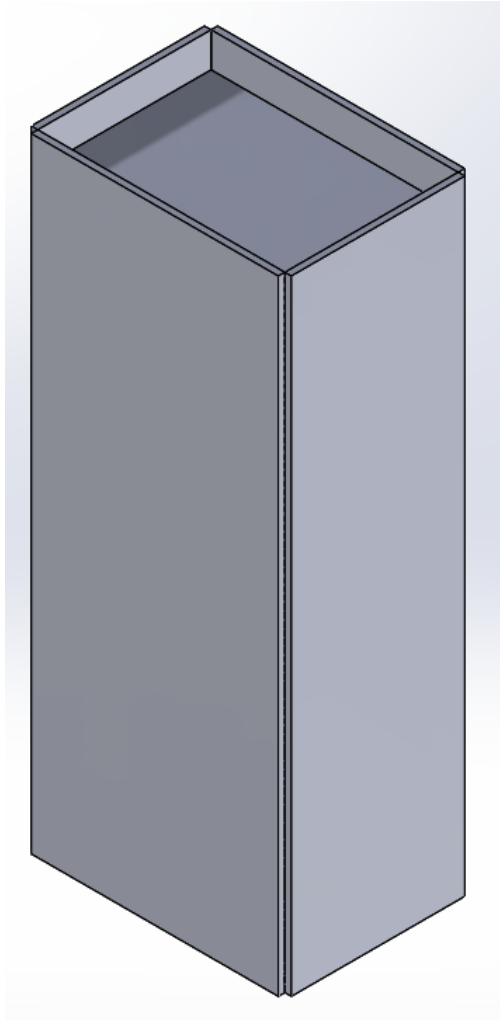




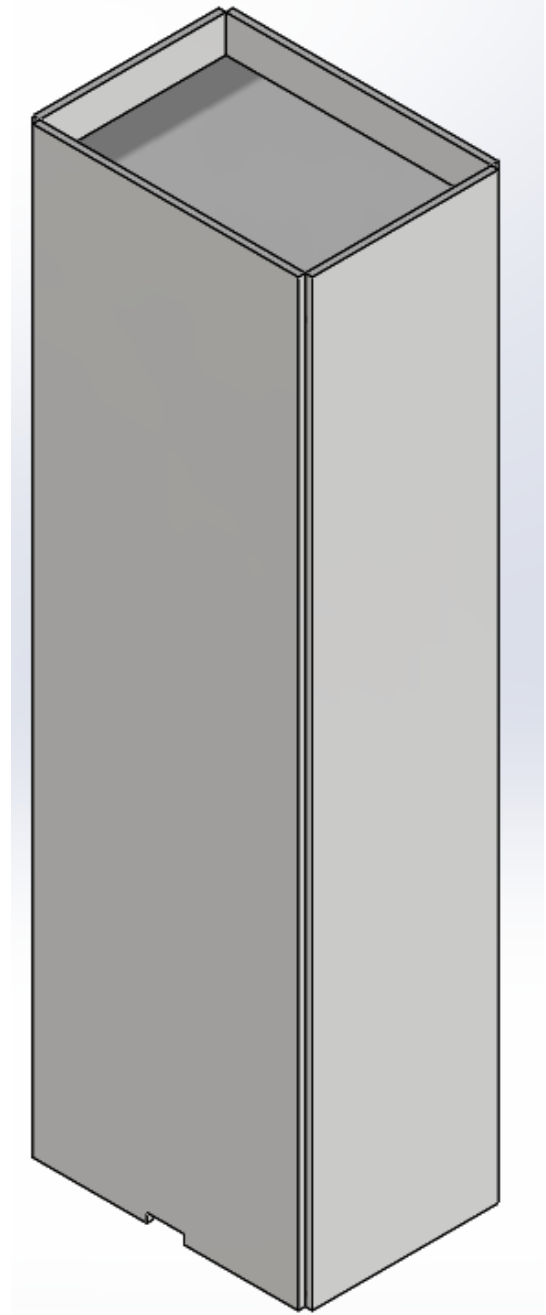
2x4  
Wood



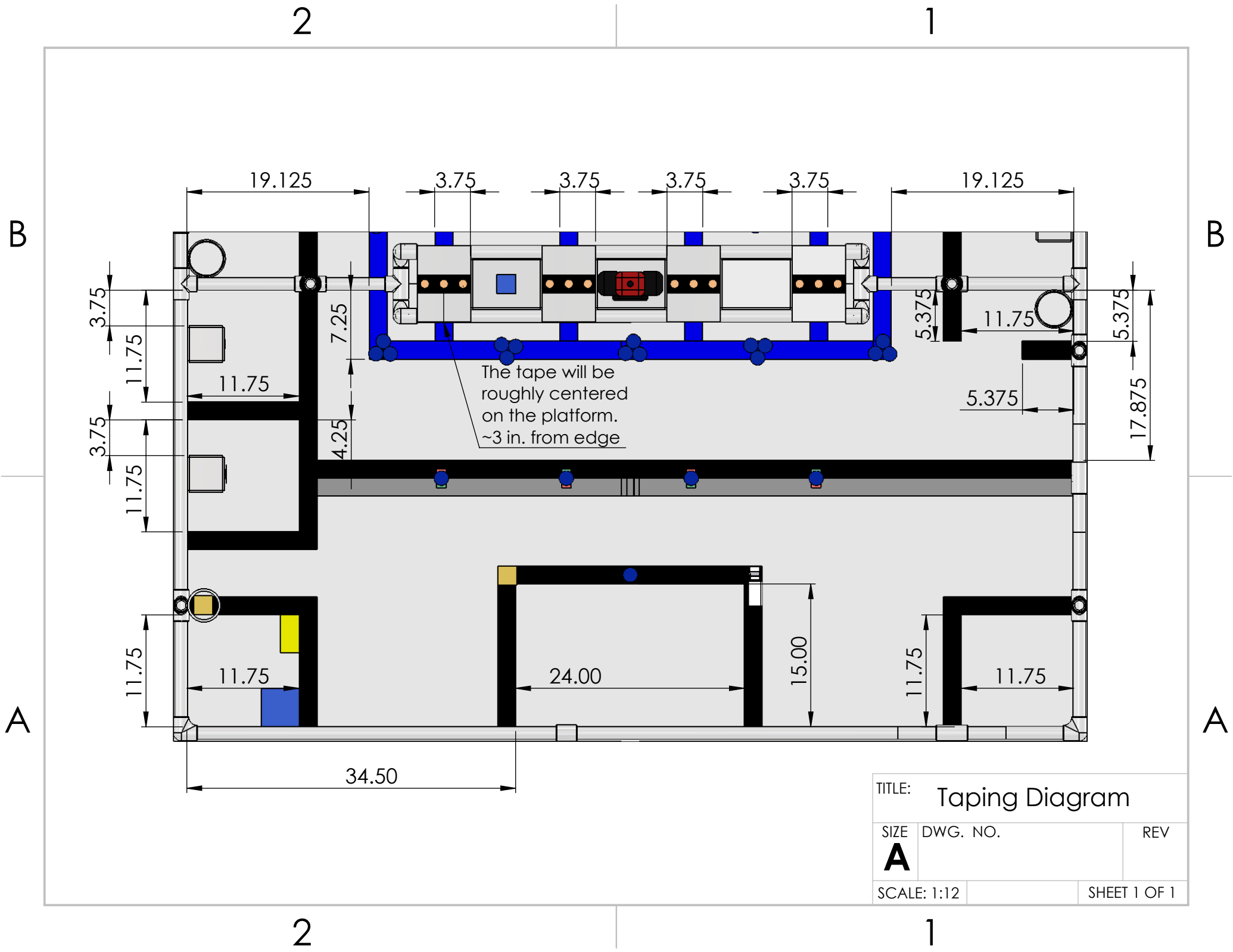
6" Building



18" Building



24" Building



The tape will be roughly centered on the platform. ~3 in. from edge

TITLE: Taping Diagram		
SIZE	DWG. NO.	REV
<b>A</b>		
SCALE: 1:12	SHEET 1 OF 1	

2

1

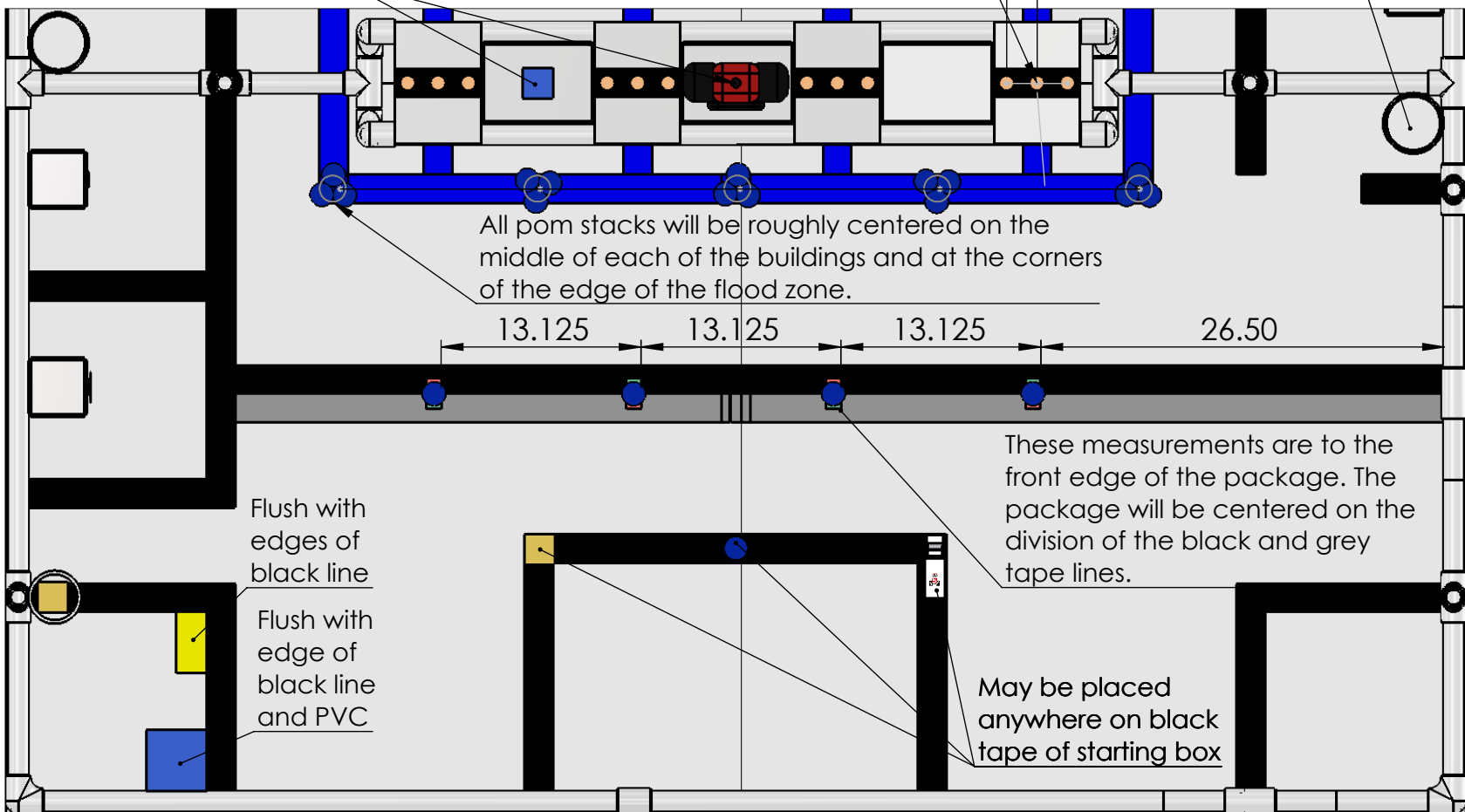
Botguy and the Mayor of Botopia will be roughly centered on their buildings

All center peg people will be roughly centered in the vertical projection of the platform with the adjacent peg people centered 2" away parallel to the tape line

May be placed anywhere on Side not touching black tape.

B

B



All pom stacks will be roughly centered on the middle of each of the buildings and at the corners of the edge of the flood zone.

13.125 13.125 13.125 26.50

These measurements are to the front edge of the package. The package will be centered on the division of the black and grey tape lines.

Flush with edges of black line

Flush with edge of black line and PVC

May be placed anywhere on black tape of starting box

A

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TITLE: Game Piece Positions

SIZE	DWG. NO.	REV
<b>A</b>		

SCALE: 1:12	SHEET 1 OF 1
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