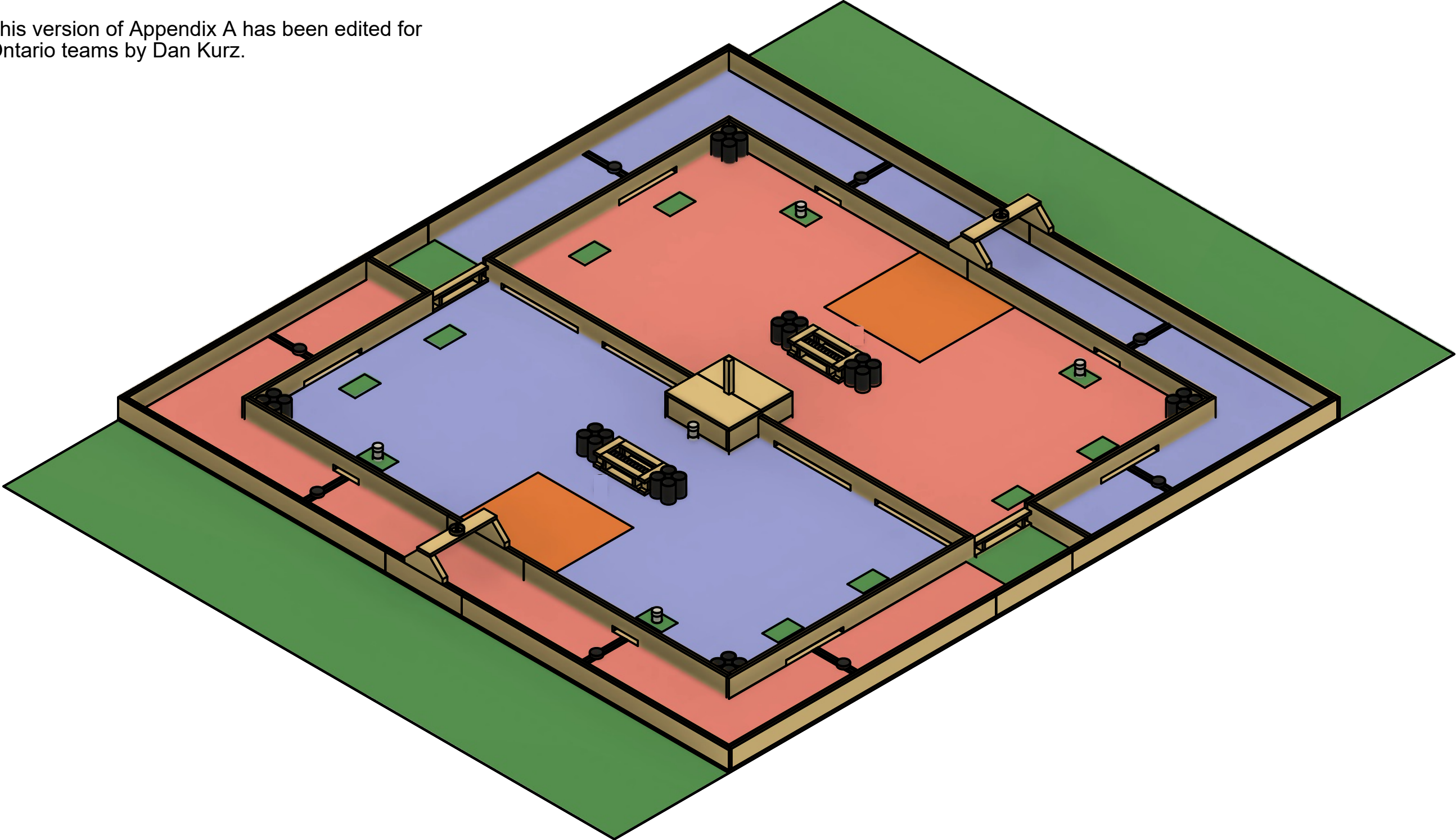
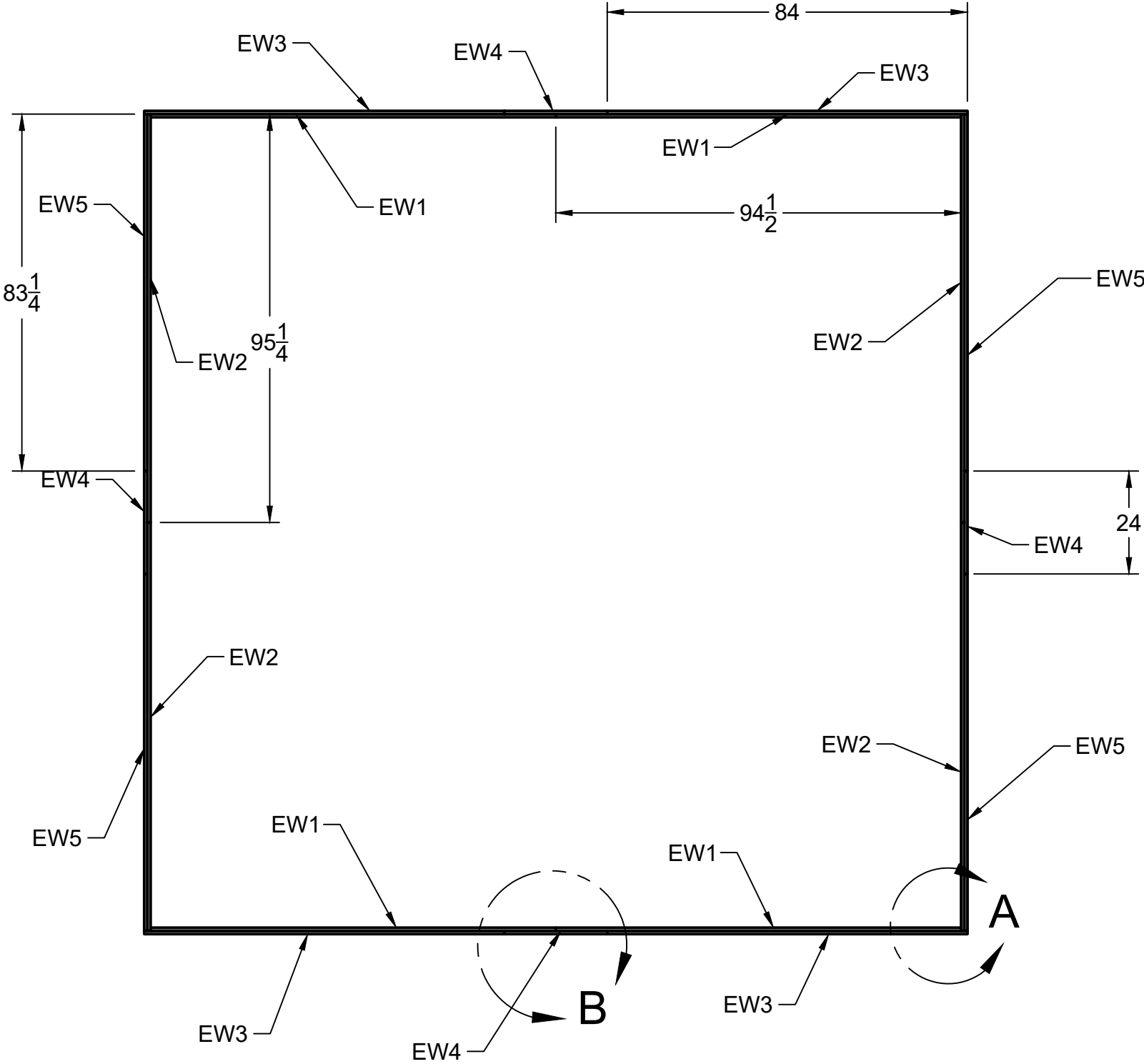


This version of Appendix A has been edited for Ontario teams by Dan Kurz.

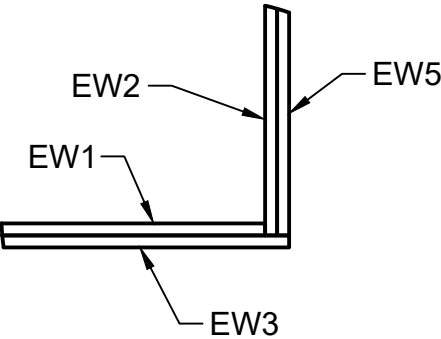


PROJECT: Skills Canada Robotics 2027	DRAWING NUMBER: 1/2	SCALE: 1:24		Mobile Robotics National Drawings Calgary, Alberta May 26 - May 28, 2027
DRAWING TITLE: 2027 Court	DRAWN BY: Steve Claassen	DATE: 2026-05-23		

Exterior Wall Layout



Corner (Detail A)



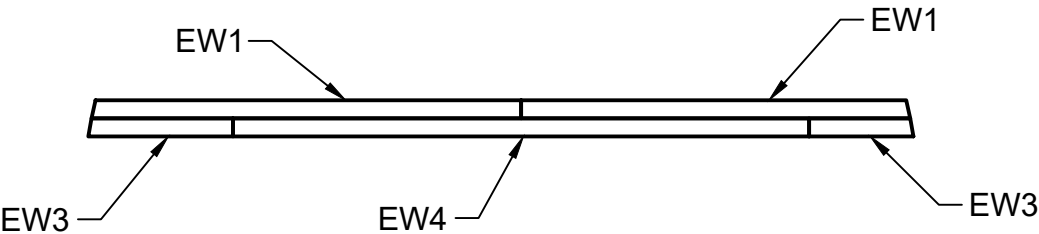
Note: This is a diagram of only the exterior court walls.

All pieces are made from 3/4 inch plywood

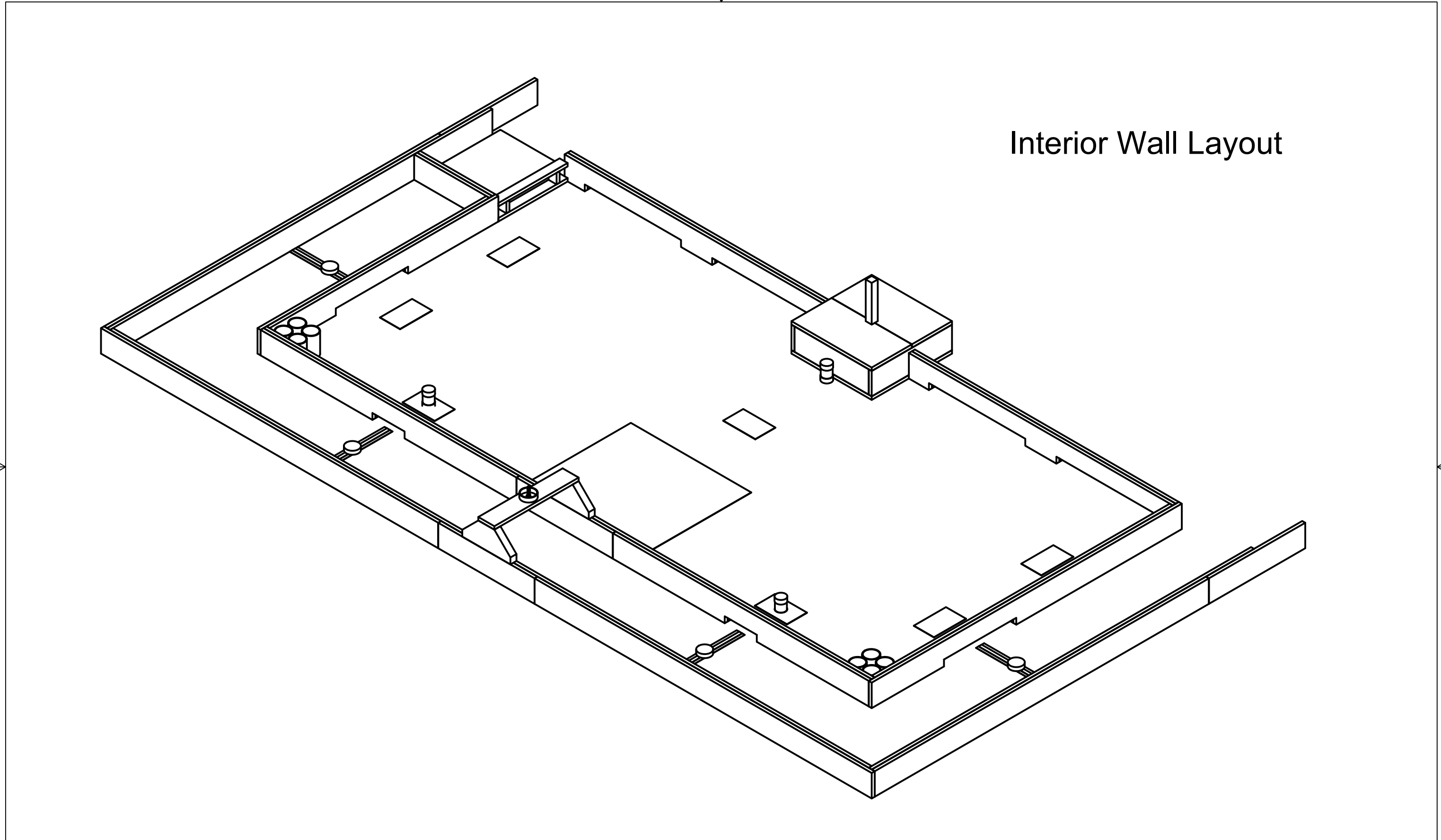
Walls are constructed by overlapping 2 pieces of plywood to achieve a 1 1/2 inch thick wall

ALL WALLS ARE 5 1/2 INCHES IN HEIGHT, CUT FROM 3/4 INCH PLYWOOD

Mid-Wall Connection (Detail B)



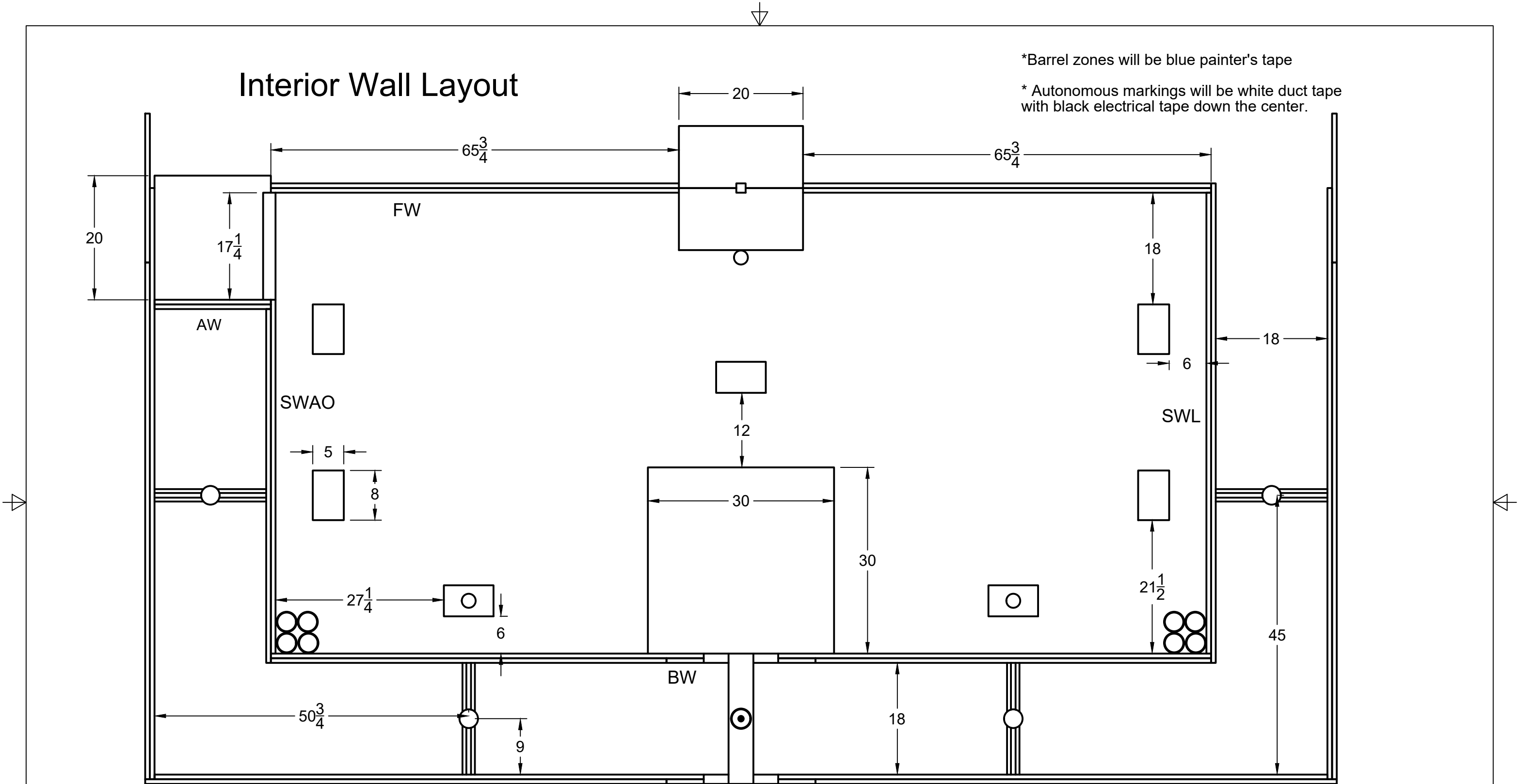
ITEM	QTY	Description	SIZE
EW1	4	3/4 inch Plywood	3/4" x 5 1/2" X 94 1/2"
EW2	4	3/4 inch Plywood	3/4" x 5 1/2" X 95 1/4"
EW3	4	3/4 inch Plywood	3/4" x 5 1/2" X 84"
EW4	4	3/4 inch Plywood	3/4" x 5 1/2" X 24"
EW5	4	3/4 inch Plywood	3/4" x 5 1/2" X 83 1/4"



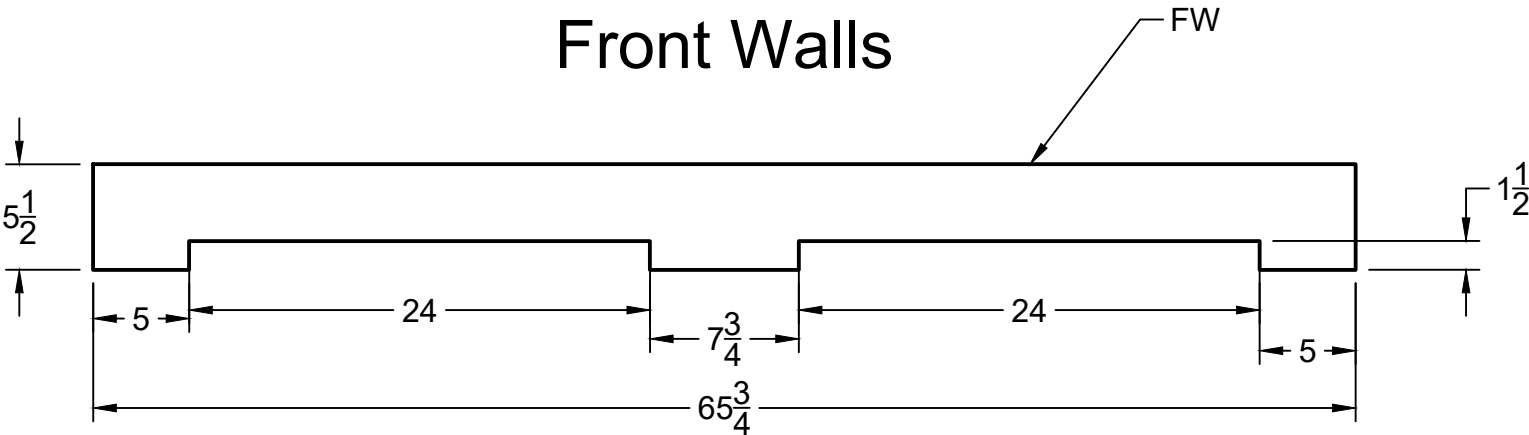
PROJECT: Skills Canada Robotics 2027	DRAWING NUMBER: 1/5	SCALE: 1:16		Mobile Robotics National Drawings Calgary, Alberta May 26 - May 28, 2027
DRAWING TITLE: 2027 Final Court	DRAWN BY: Steve Claassen	DATE: 2026-02-19		

Interior Wall Layout

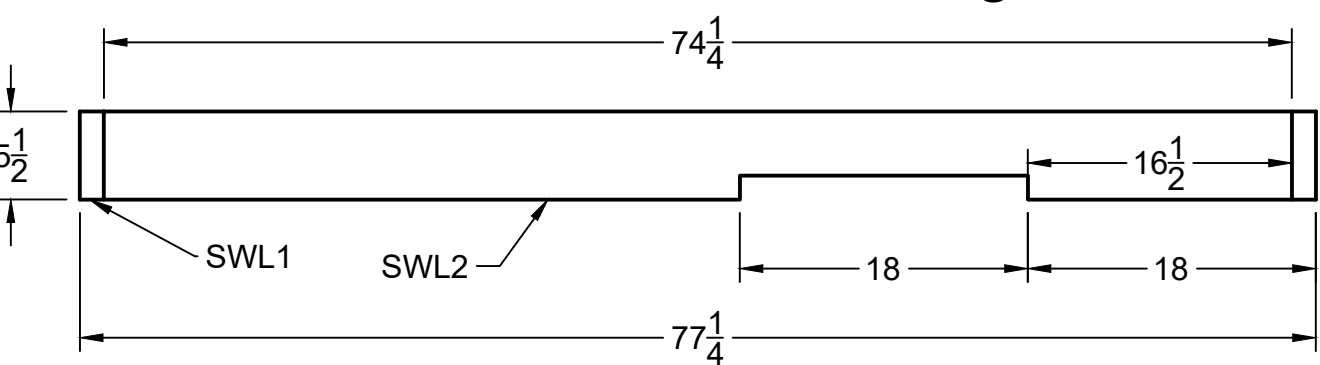
*Barrel zones will be blue painter's tape
* Autonomous markings will be white duct tape with black electrical tape down the center.



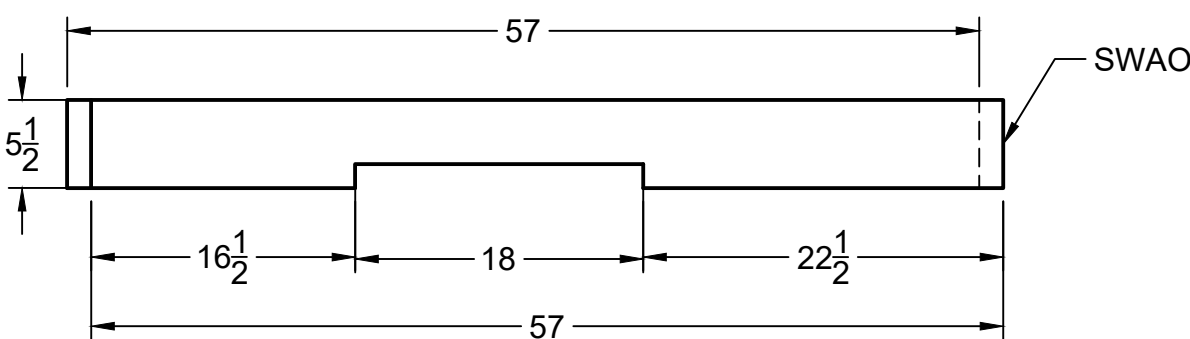
Front Walls



Side Wall - Long



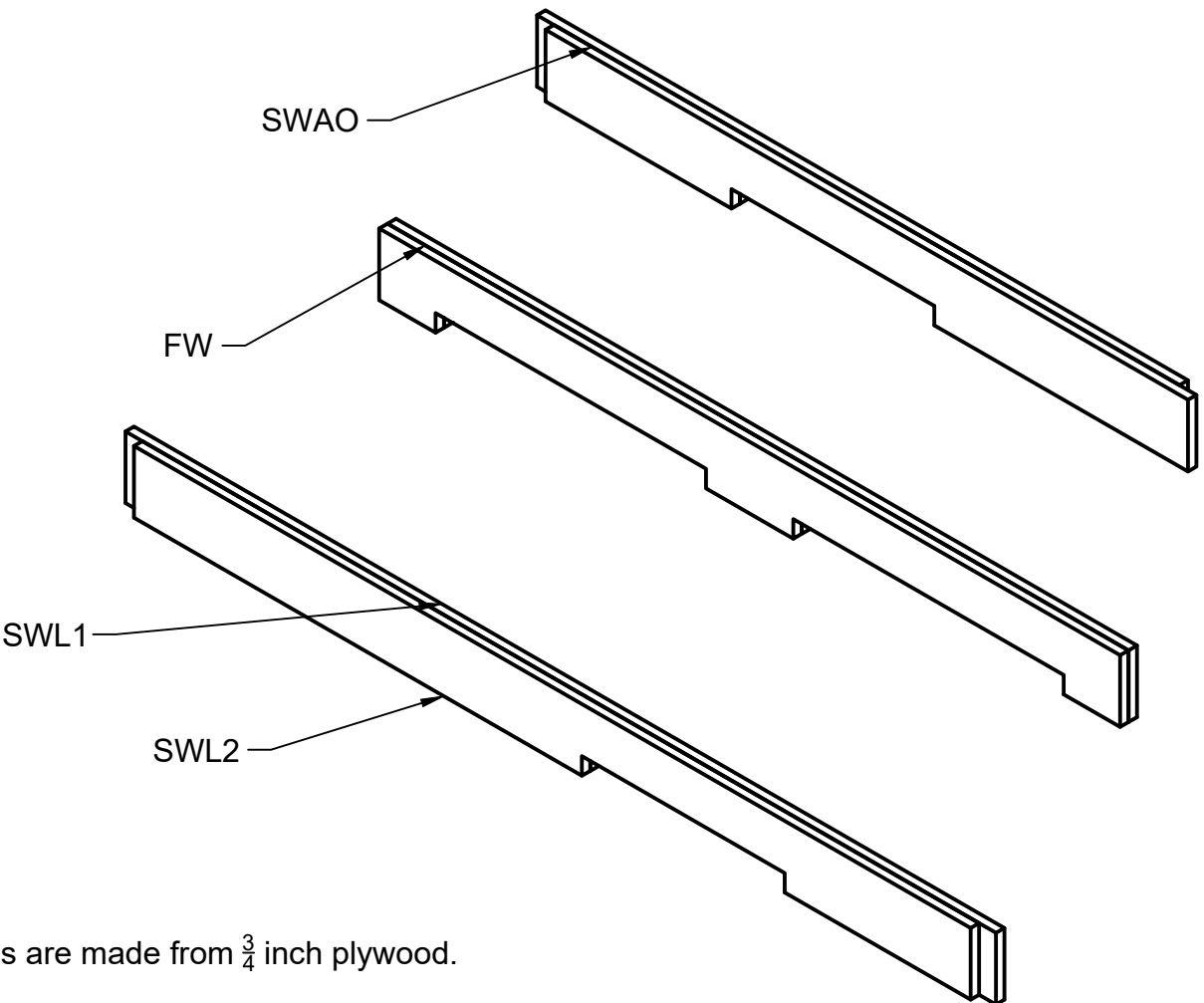
Side Wall - Autonomous Opening



NOTE: All pieces are made from $\frac{3}{4}$ inch plywood.

Walls are constructed by overlapping 2 pieces of plywood to achieve a $1\frac{1}{2}$ inch thick wall.

ALL WALLS ARE $5\frac{1}{2}$ INCHES IN HEIGHT, CUT FROM $\frac{3}{4}$ INCH PLYWOOD.



ITEM	QTY	Description	SIZE
FW	4	Front Walls	$\frac{3}{4}$ " X $5\frac{1}{2}$ " X $65\frac{3}{4}$ "
SWAO	4	Side Wall - Autonomous	$\frac{3}{4}$ " x $5\frac{1}{2}$ " x 57"
SWL1	2	Side Wall Long	$\frac{3}{4}$ " X $5\frac{1}{2}$ " X $77\frac{1}{4}$ "
SWL2	2	Side Wall Long	$\frac{3}{4}$ " x $5\frac{1}{2}$ " x $74\frac{1}{4}$ "

PROJECT:
Skills Canada Robotics 2027

DRAWING TITLE:
2027 Final Court

DRAWING NUMBER:

3/5

DRAWN BY:

Steve Claassen

SCALE:

1:10

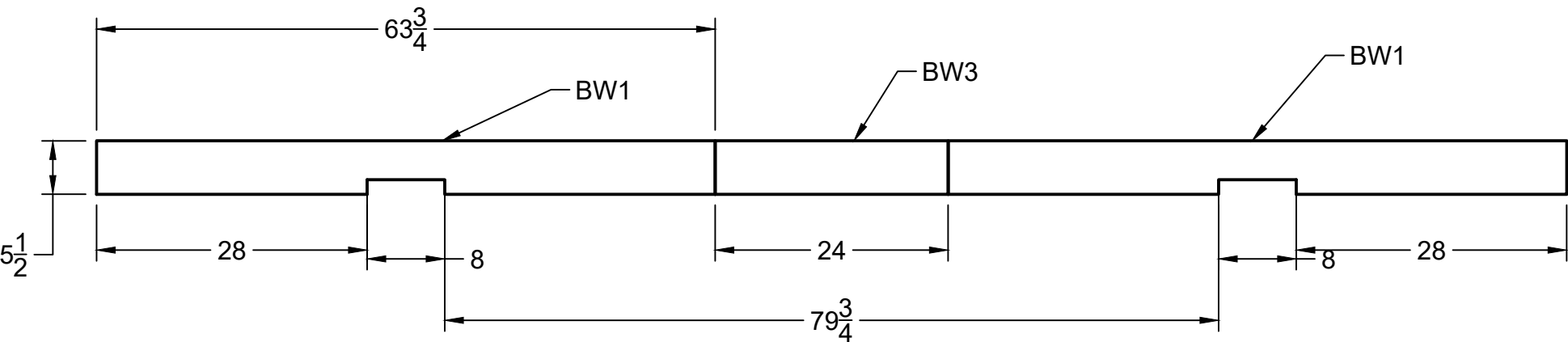
DATE:

2026-02-19



Mobile Robotics National Drawings
Calgary, Alberta May 26 - May 28, 2027

Back Interior Wall (Faces Into Court)

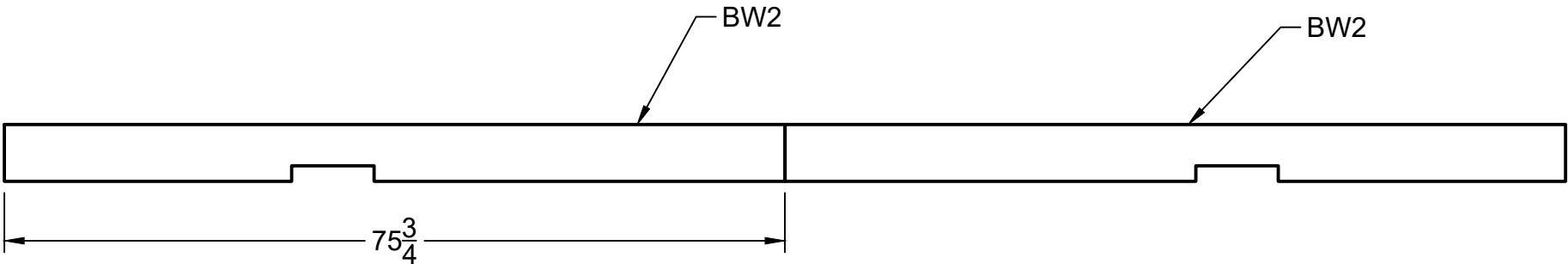


NOTE: All pieces are made from $\frac{3}{4}$ inch plywood.

Walls are constructed by overlapping 2 pieces of plywood to achieve a $1\frac{1}{2}$ inch thick wall.

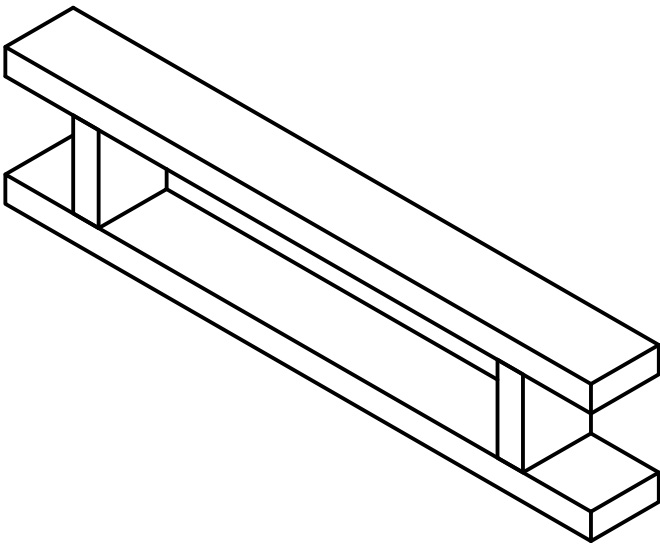
ALL WALLS ARE $5\frac{1}{2}$ INCHES IN HEIGHT, CUT FROM $\frac{3}{4}$ INCH PLYWOOD.

Back Interior Wall (Faces Out)



ITEM	QTY	Description	SIZE
BW1	4	Back Interior Wall	$\frac{3}{4}$ " X $5\frac{1}{2}$ " X $63\frac{3}{4}$ "
BW2	4	Back Interior Wall	$\frac{3}{4}$ " x $5\frac{1}{2}$ " x $75\frac{3}{4}$ "
BW3	2	Back Wall - Plate	$\frac{3}{4}$ " x $5\frac{1}{2}$ " x 24"

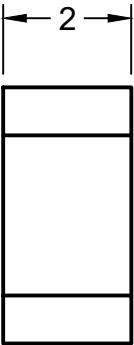
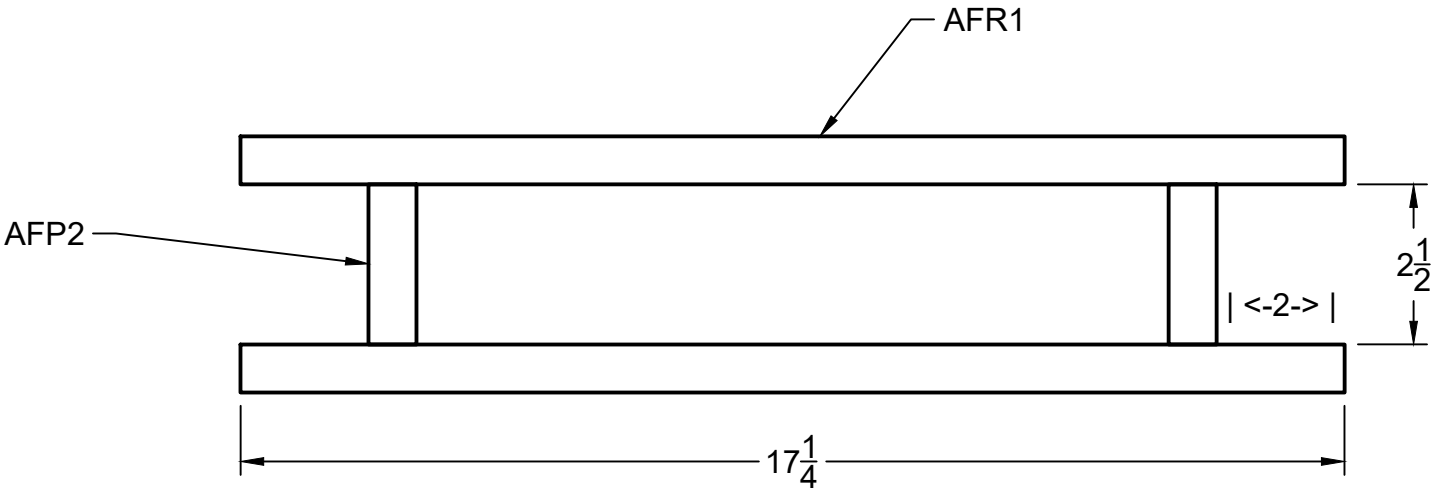
Transfer Zone Fence



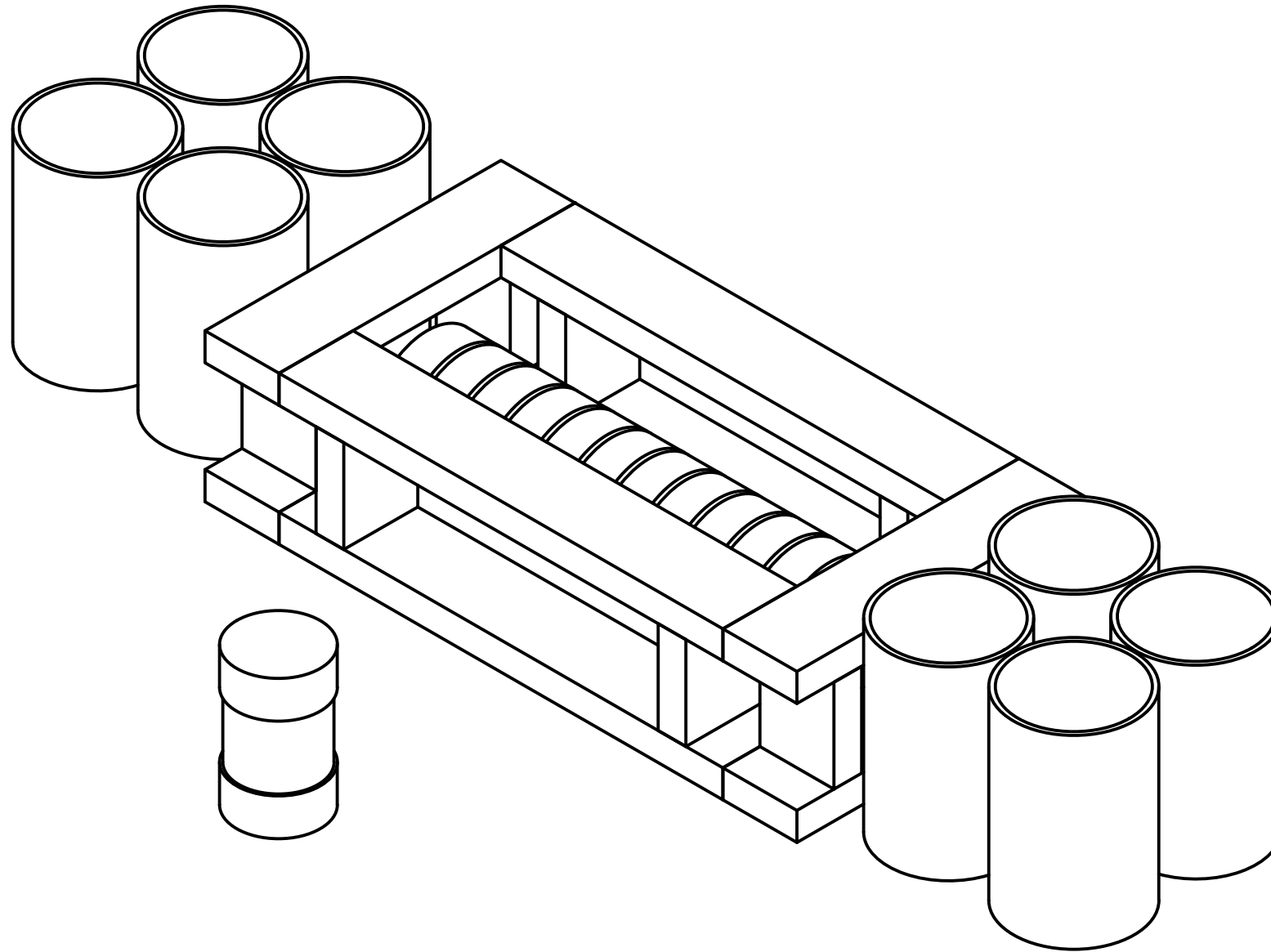
NOTE: All pieces are made from $\frac{3}{4}$ inch plywood.

Rails and Posts are to be screwed together with 2" wood screws.

The Transfer Fence is to be secured between the arena and the Autonomous Zone.



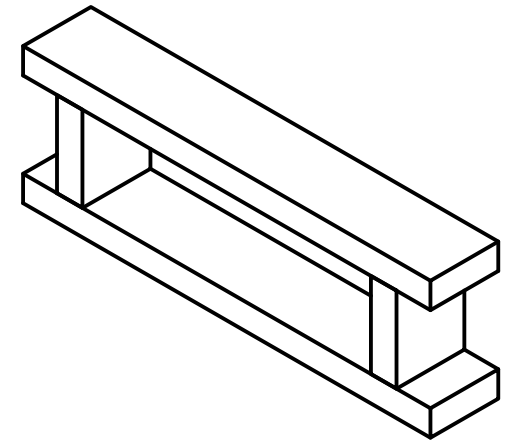
ITEM	QTY	Description	SIZE
AFR1	4	Autonomous Fence Rail	$\frac{3}{4}$ " X 2" X $17\frac{1}{4}$ "
AFP2	4	Autonomous Fence Post	$\frac{3}{4}$ " x 2" x $2\frac{1}{2}$ "



PROJECT: Skills Canada Robotics 2027	DRAWING NUMBER: 1/4	SCALE: 1:3	 Skills Compétences Canada	Mobile Robotics National Drawings Calgary, Alberta May 26 - May 28, 2027
DRAWING TITLE: Bull Coral/Barrels/Clowns	DRAWN BY: Steve Claassen	DATE: 2026-05-23		

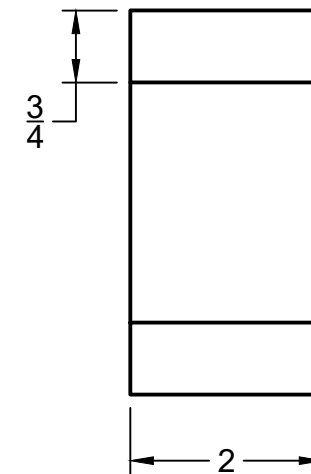
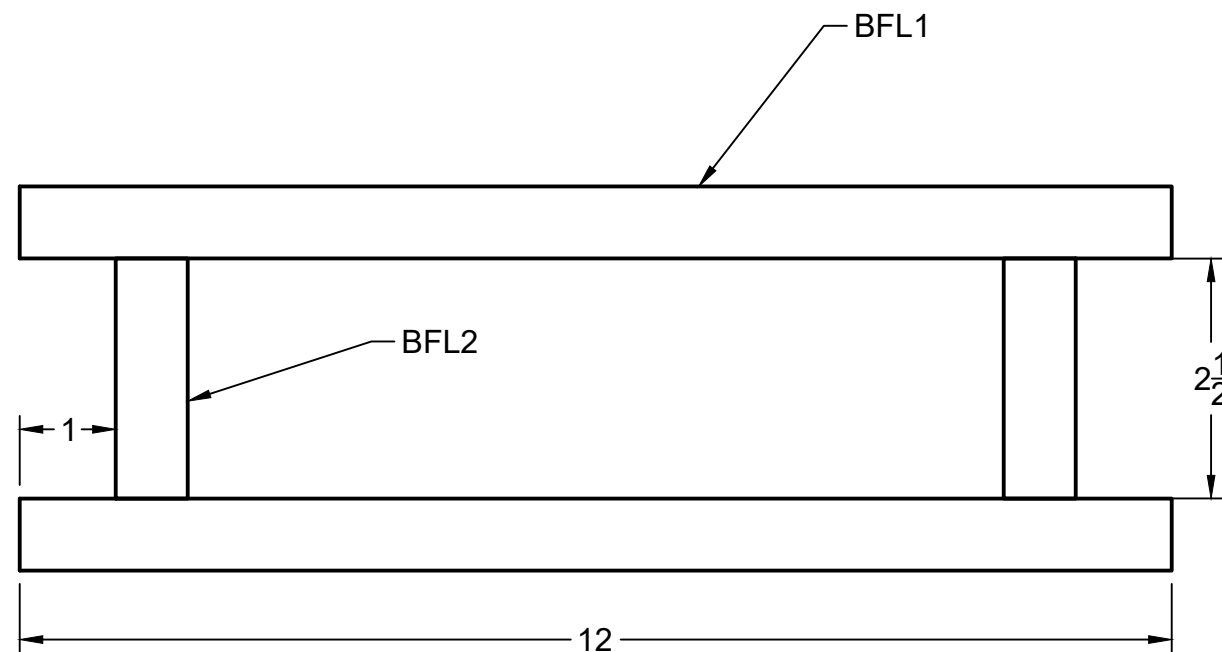


Long Bull Fence



NOTE: All pieces are made from $\frac{3}{4}$ inch plywood.

Rails and Posts are to be screwed together with 2" wood screws.



ITEM	QTY	Description	SIZE
BFL1	8	Long Bull Fence Rail	$\frac{3}{4}$ " X 2" X 12"
BFL2	8	Bull Fence Posts	$\frac{3}{4}$ " x 2" x 2 $\frac{1}{2}$ "

PROJECT:
Skills Canada Robotics 2027

DRAWING NUMBER:
2/4

SCALE:
1:2

DRAWING TITLE:
Bull Coral/Barrels/Clowns

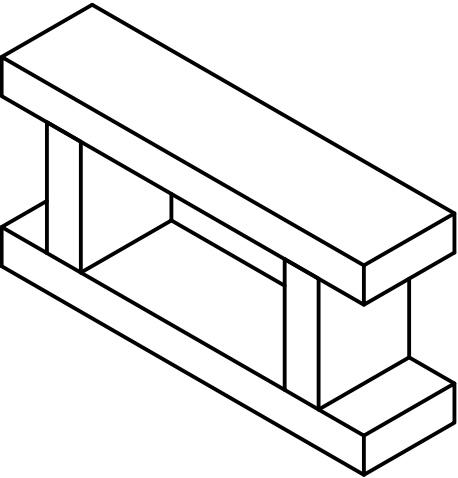
DRAWN BY:
Steve Claassen

DATE:
2026-05-23



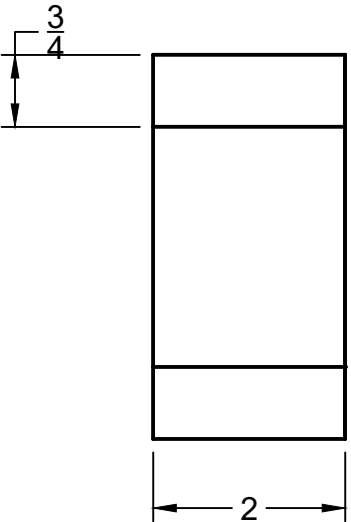
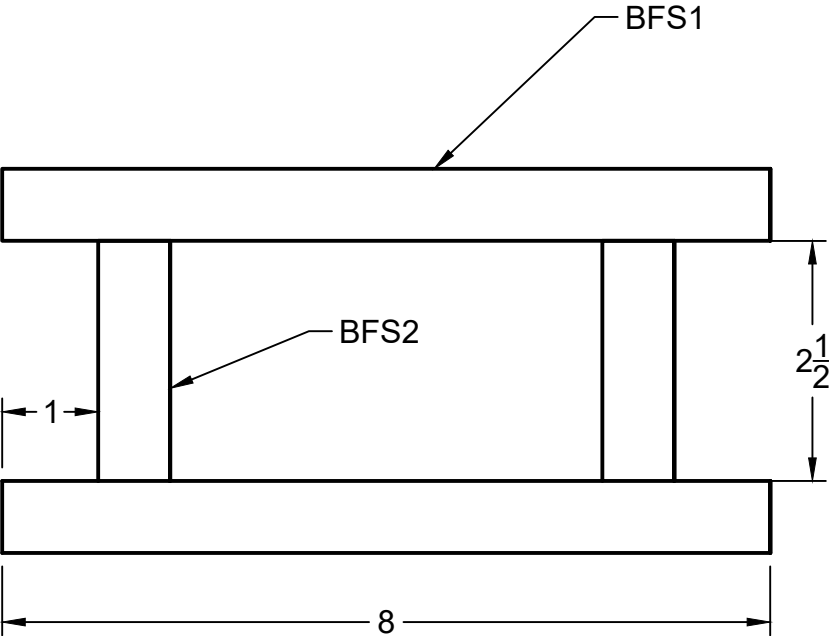
Mobile Robotics National Drawings
Calgary, Alberta May 26 - May 28, 2027

Short Bull Fence



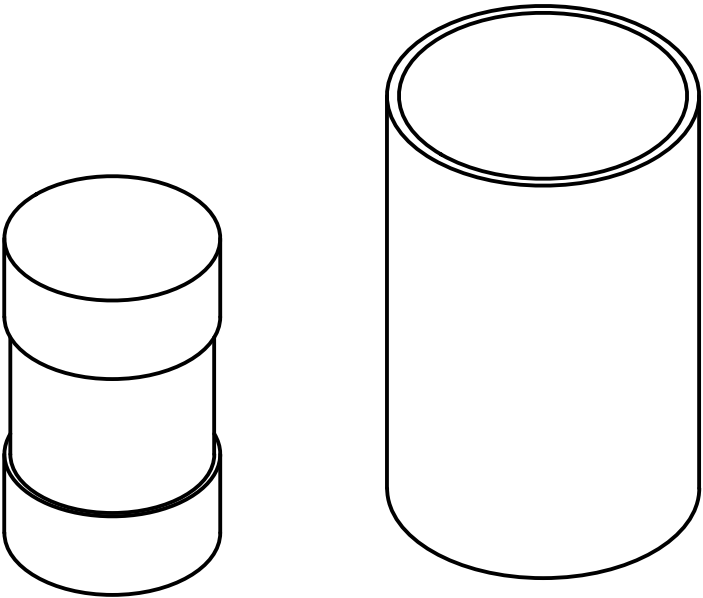
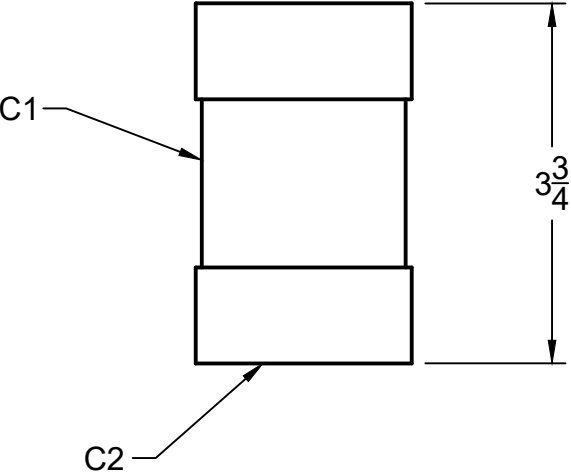
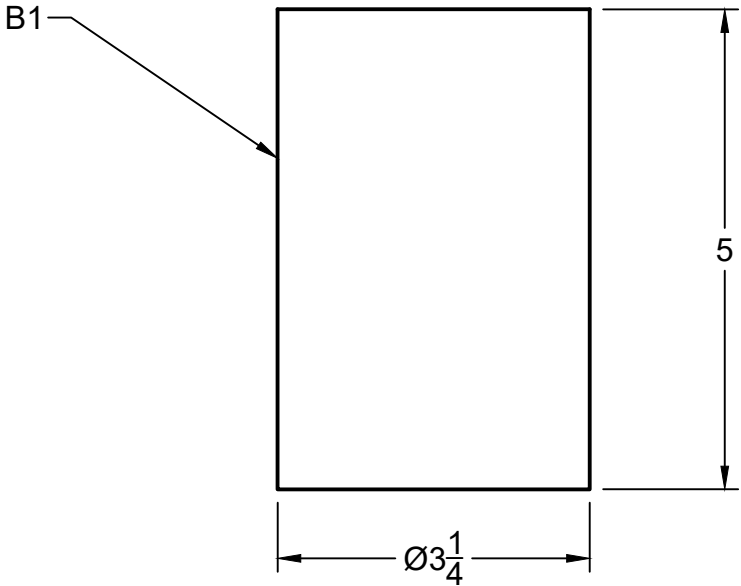
NOTE: All pieces are made from $\frac{3}{4}$ inch plywood.

Rails and Posts are to be screwed together with 2" wood screws.

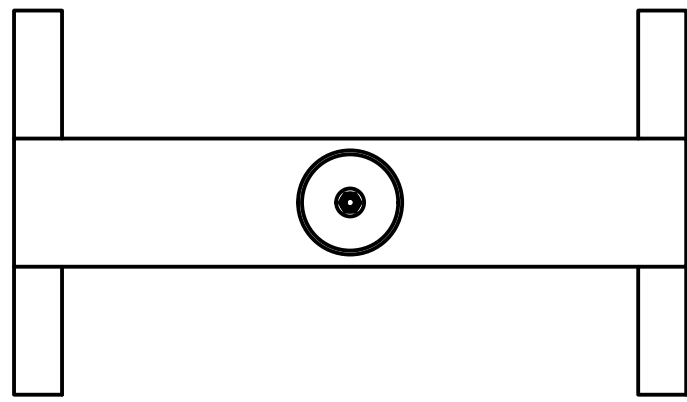


ITEM	QTY	Description	SIZE
BFS1	8	Short Bull Fence Rails	$\frac{3}{4}$ " X 2" X 8"
BFS2	8	Bull Fence Posts	$\frac{3}{4}$ " x 2" x 2 $\frac{1}{2}$ "

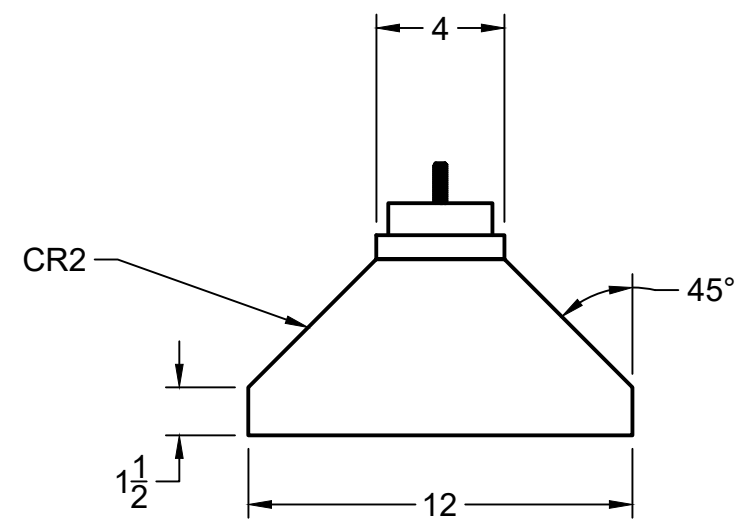
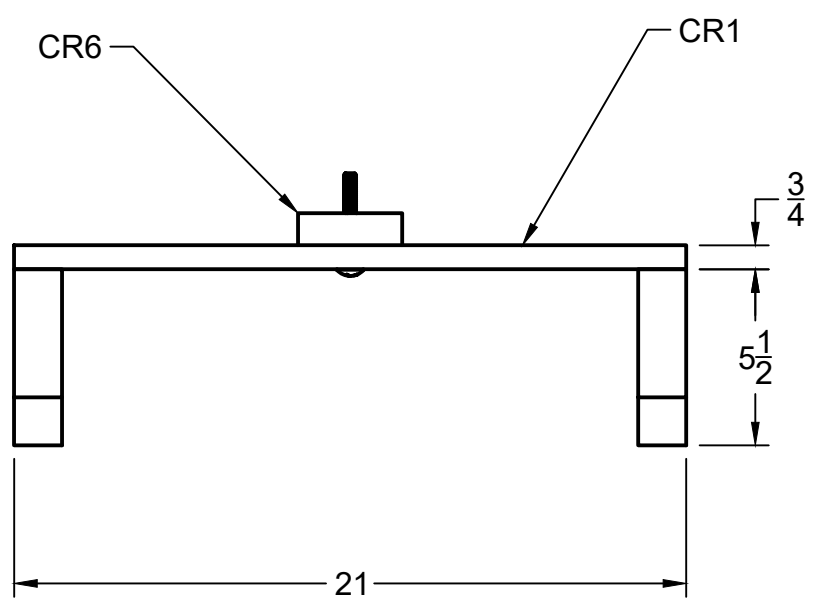
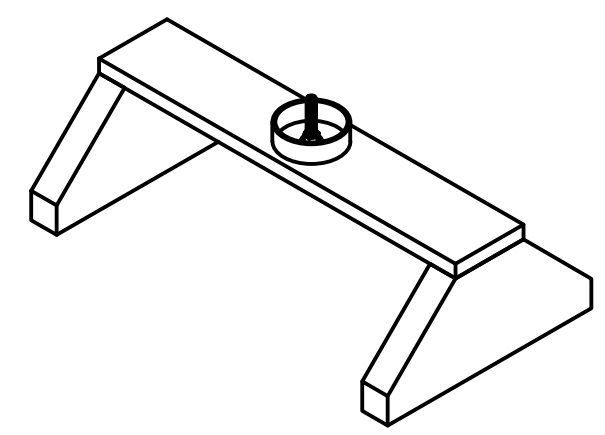
Barrels & Clowns



ITEM	QTY	Description	SIZE
B1	32	Barrel - 3in Black ABS Pipe	$3\frac{1}{4}$ x 5"
C1	6	2" Vacuum Pipe	2" x $3\frac{1}{2}$ "
C2	12	2" Vacuum Pipe Cap	2"

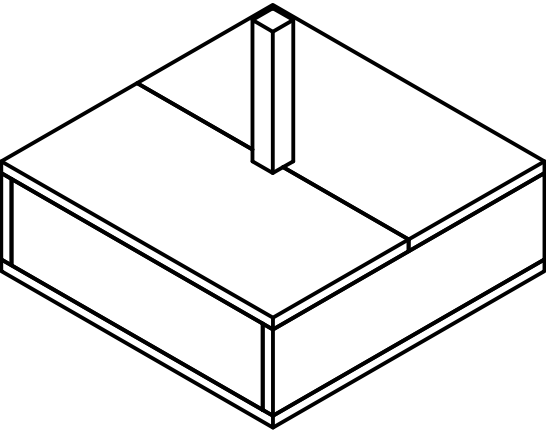
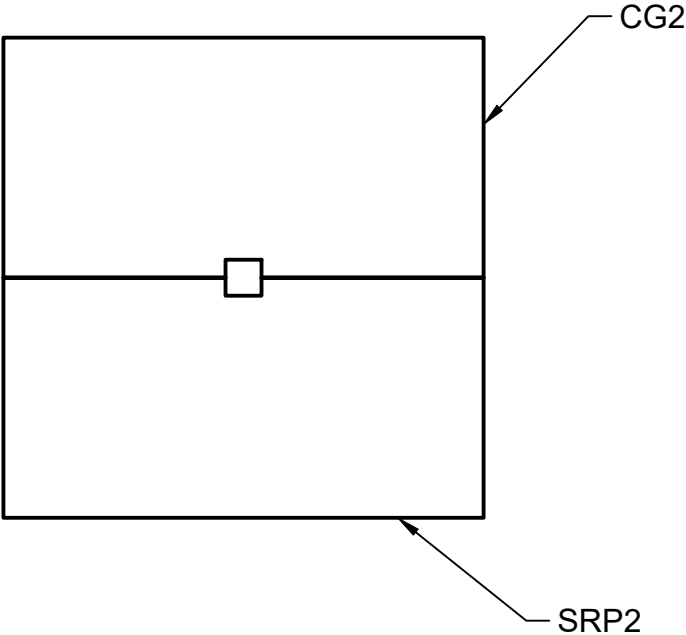


Autonomous Calf Roping Platform

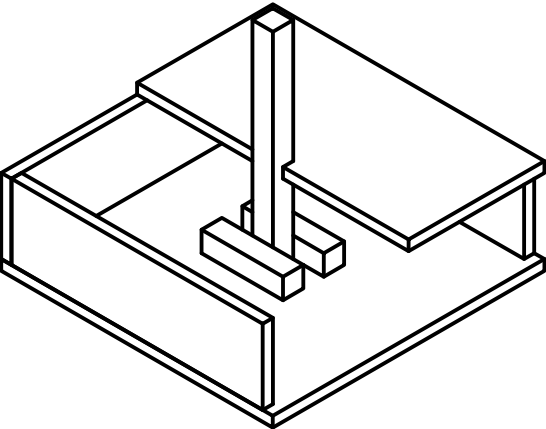
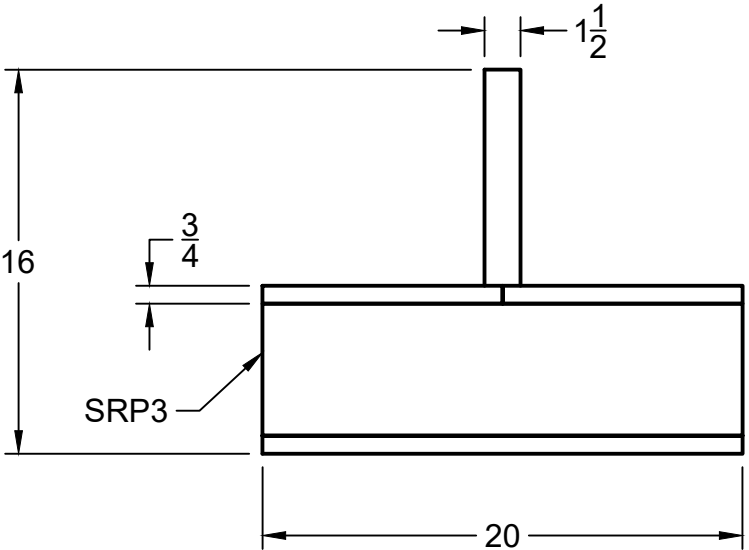
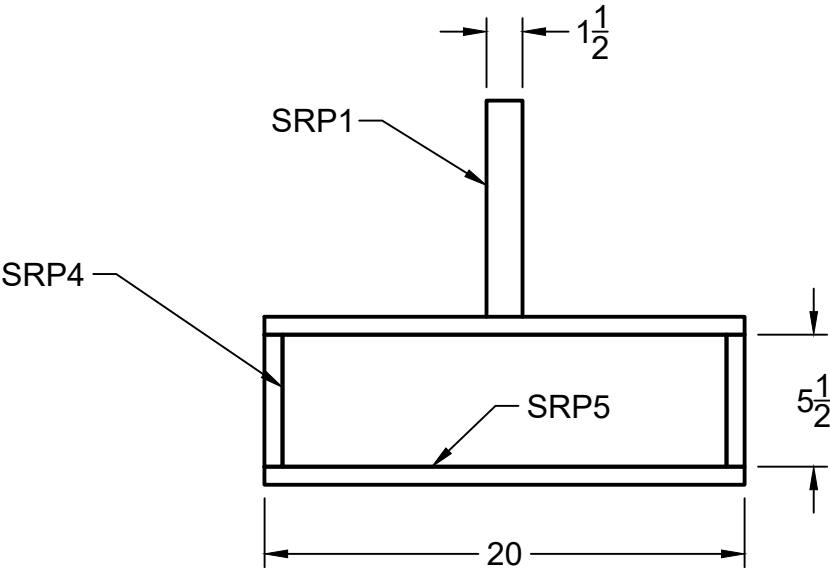


ITEM	QTY	Description	SIZE
CR1	2	Top Plate	$\frac{3}{4}$ " X 4" X 21"
CR2	8	Side Supports (Can use 2" x 6")	$1\frac{1}{2}$ " x $5\frac{1}{2}$ " x 12"
CR3	2	$\frac{3}{8}$ " Carriage Bolt	3"
CR4	2	$\frac{3}{8}$ " Lock Nut	$\frac{3}{8}$ "
CR5	2	$\frac{3}{8}$ " washer	$\frac{3}{8}$ "
CR6	2	3" Black ABS Pipe	1" long

Steer Roping Platform



Note from Dan: To keep the post from wobbling, add an additional 2x2 under the top of the steer head platform that is screwed to the post and both planks.



ITEM	QTY	Description	SIZE
SRP1	2	Post	1 1/2" X 1 1/2" X 15 1/4"
SRP2	2	Top Plate	3/4" X 10" X 20"
SRP3	2	Sides	3/4" X 5 1/2" X 20"
SRP4	2	Ends	3/4" X 5 1/2" X 18 1/2"
SRP5	1	Bottom Plate	3/4" X 20" X 20"

Suggested Plywood Layout for Exterior Walls, Interior Walls and Court Elements
(Sheets 1 - 4)

EW1 (5 1/2 X 94 1/2)
EW1 (5 1/2 X 94 1/2)
EW1 (5 1/2 X 94 1/2)
EW1 (5 1/2 X 94 1/2)
EW2 (5 1/2 X 95 1/4)
EW2 (5 1/2 X 95 1/4)
EW2 (5 1/2 X 95 1/4)
EW2 (5 1/2 X 95 1/4)

96	
EW3 (5 1/2 X 84)	
EW3 (5 1/2 X 84)	
EW3 (5 1/2 X 84)	
EW3 (5 1/2 X 84)	
EW5 (5 1/2 X 83 1/4)	
EW5 (5 1/2 X 83 1/4)	
EW5 (5 1/2 X 83 1/4)	
EW5 (5 1/2 X 83 1/4)	

SWL1 (5 1/2 X 77 1/4)	CR2 (5 1/2" x 12")
SWL1 (5 1/2 X 77 1/4)	CR2 (5 1/2" x 12")
SWL2 (5 1/2 X 74 1/4)	CR2 (5 1/2" x 12")
SWL2 (5 1/2 X 74 1/4)	CR2 (5 1/2" x 12")
FW (5 1/2 X 65 3/4)	SRP5 20" x 20"
FW (5 1/2 X 65 3/4)	
FW (5 1/2 X 65 3/4)	
FW (5 1/2 X 65 3/4)	

SWAO (5 $\frac{1}{2}$ X 57)			EW4 (5 $\frac{1}{2}$ X 24)			CR2 (5 $\frac{1}{2}$ " x 12")		
SWAO (5 $\frac{1}{2}$ X 57)			EW4 (5 $\frac{1}{2}$ X 24)			CR2 (5 $\frac{1}{2}$ " x 12")		
SWAO (5 $\frac{1}{2}$ X 57)			EW4 (5 $\frac{1}{2}$ X 24)			CR2 (5 $\frac{1}{2}$ " x 12")		
SWAO (5 $\frac{1}{2}$ X 57)			EW4 (5 $\frac{1}{2}$ X 24)			CR2 (5 $\frac{1}{2}$ " x 12")		
SRP3 (5 $\frac{1}{2}$ " x 20")		SRP3 (5 $\frac{1}{2}$ " x 20")		SRP4 (5 $\frac{1}{2}$ " x 18 $\frac{1}{2}$ ")		SRP4 (5 $\frac{1}{2}$ " x 18 $\frac{1}{2}$ ")		
SRP2 (10" x 20")		SRP2 (10" x 20")		CR1 (4" x 21")		AW 5 1/2 x 18 3/4		
				CR1 (4" x 21")				
				AW 5 1/2 x 18 3/4				
		AFR1 (2" x 17 $\frac{1}{4}$ ") x 4						
BFL1 (2" x 12") x 8								
		BFS1 (2" x 8") x 8						
All Fence Posts (2" x 2 $\frac{1}{2}$ ") x 20								

Suggested Plywood Layout for Exterior Walls, Interior Walls and Court Elements
(Sheet 5)

BW2 (5½ X 75 ¾)		
BW2 (5½ X 75 ¾)		
BW2 (5½ X 75 ¾)		
BW2 (5½ X 75 ¾)		
BW1 (5½ X 63 ¾)	BW3 (5½ X 24)	
BW1 (5½ X 63 ¾)	BW3 (5½ X 24)	
BW1 (5½ X 63 ¾)		
BW1 (5½ X 63 ¾)		

Materials List

ITEM	QTY	Description	Link/Size
Bulls	32	3in Light weight Sponge Pucks	https://www.amazon.ca/dp/B0D2P7LF4B
Lasso	4	Chew Proof Dog Leash	https://amzn.to/4fgtkPK
Plywood	5	Court Walls/Game Elements	¾" x 4ft x 8ft
Barrels	32	3" Black ABS Pipe (5" Long Barrels)	3in x 14ft https://bit.ly/ABSBarrels
Calf Rope	2	3" Black ABS Pipe (cut from Barrel pieces)	1" x 3" https://bit.ly/ABSBarrels
Clowns	6	2" Central Vacuum PVC Pipe (3 ½" Long Body)	2" x 2ft https://bit.ly/CVacPipe
Clown Caps	12	2" Central Vaccum Pipe Cap	2" https://bit.ly/CVacCap
Roping Post	1	2 x 2 Roping Post	1 ½" x 1 ½" x 16"
CR3	2	¾" Carriage Bolt - Autonomous Calf Roping	https://bit.ly/CalfBolt
CR4	2	¾ Lock Nut - Autonomous Calf Roping	https://bit.ly/CalfLockNut
CR5	2	¾ washer - Autonomous Calf Roping	https://bit.ly/CalfWasher