Portable Obstacle

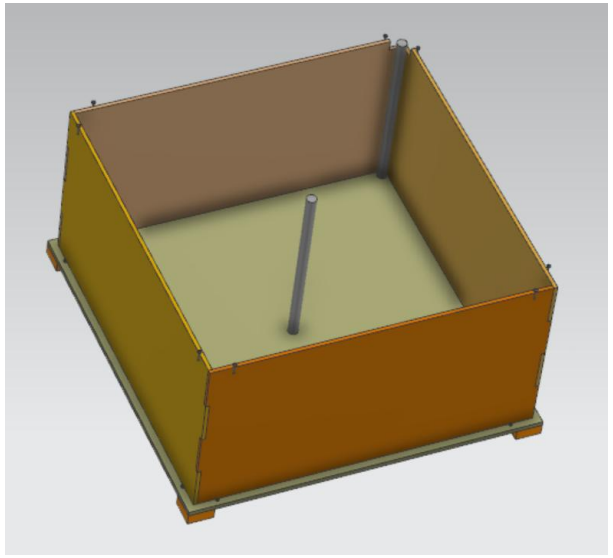
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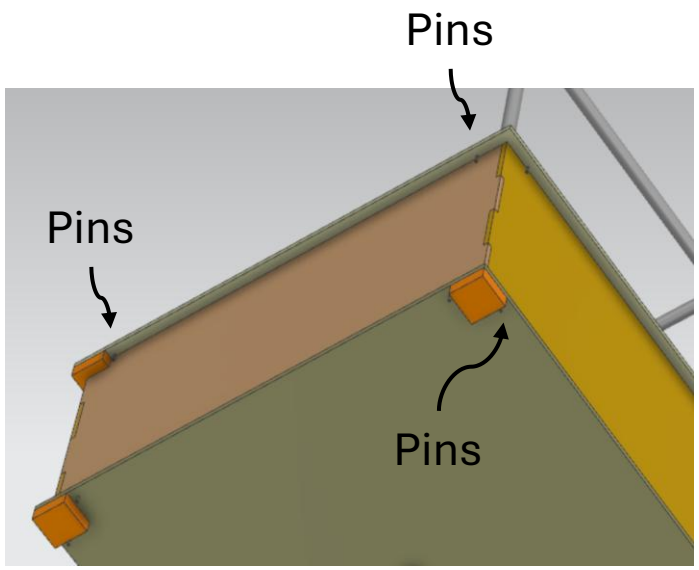
Nathaniel Fife & Miles Fife

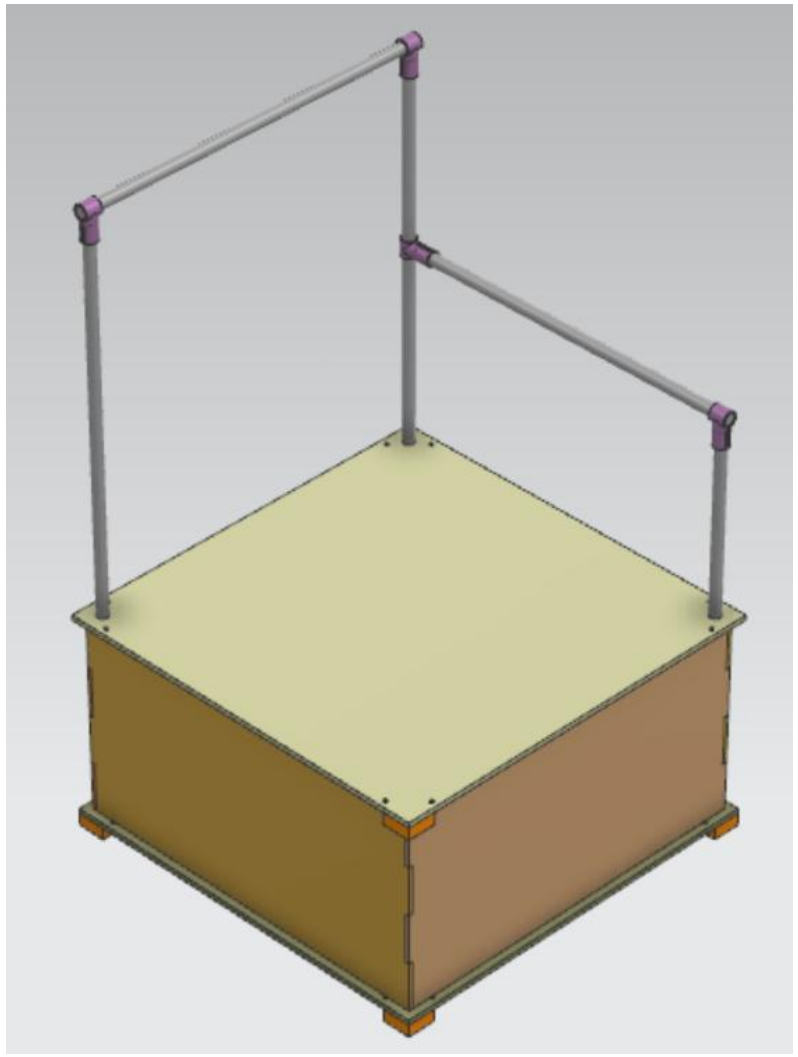
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Bill of Materials

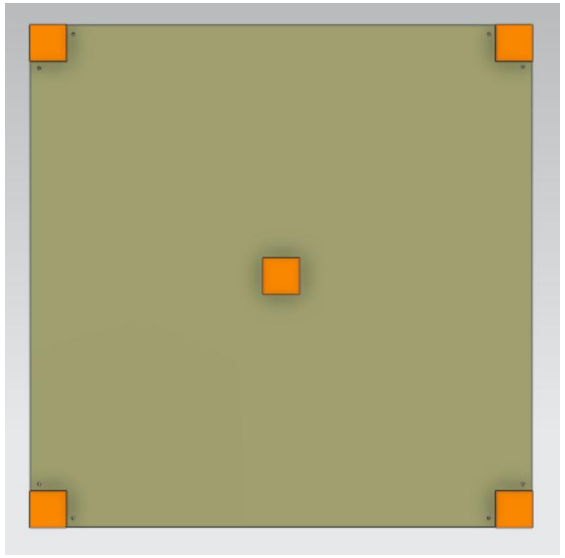
Item	Nomenclature	Description	Quantity
1	Tall Vertical	1-3/8” Dia x 72”	2
2	Medium Vertical	1-3/8” Dia x 48”	1
3	Short Vertical	1-3/8” Dia x 24-5/8”	2
4	High Horizontal	1-3/8” Dia x 45-5/8”	1
5	Low Horizontal	1-3/8” Dia x 23-1/8”	1
6	Top Rail T	Maker Pipe	4
7	Screws	1.5 inch	28
8	Top Plate	See Drawing	1
9	Bottom Plate	See Drawing	1
10	Foot Blocks	3.5” x 3.5” x 1.5” (Optional rubber pad glued to bottom)	5
11	Corner Support	See Drawing	1
12	Middle Support	See Drawing	1
13	Regular Side Wall	See Drawing	2
14	Irregular Side Wall 1	See Drawing	1
15	Irregular Side Wall 2	See Drawing	1
16	Door Hinge Pin	Door Hinge Pin	8
17	Modified Doot Hinge Pin	See Drawing	8



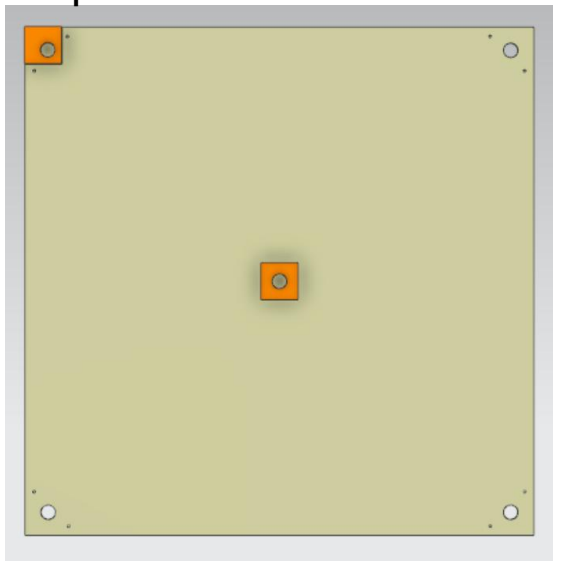




Bottom Plate

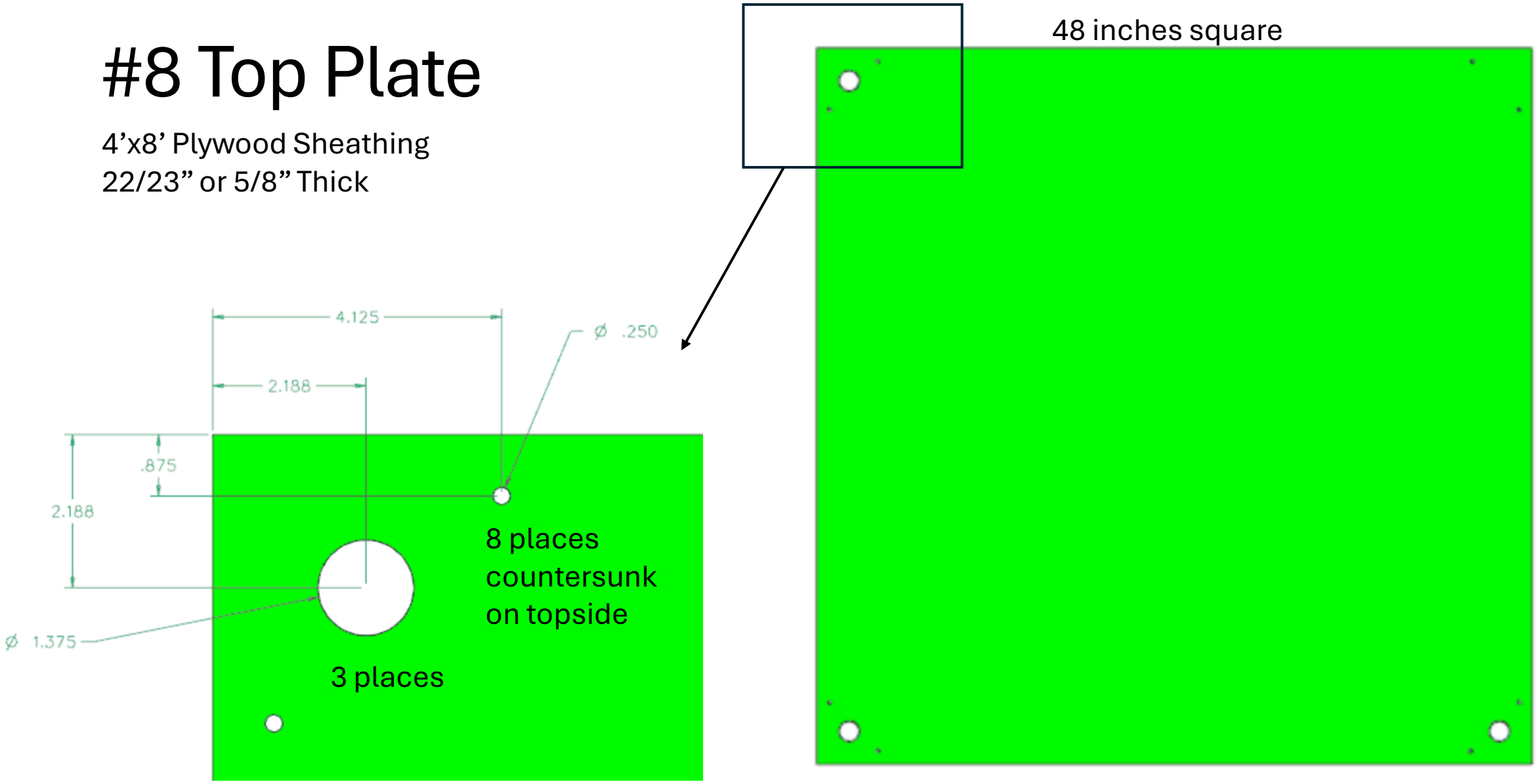


Top Plate



#8 Top Plate

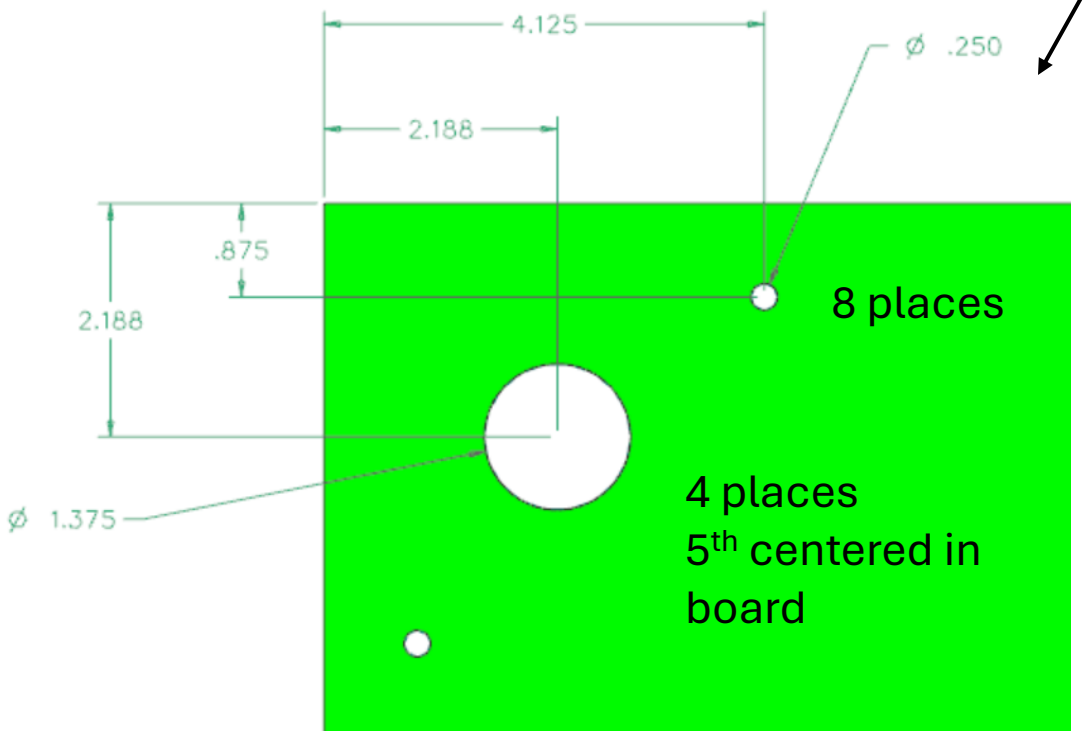
4’x8’ Plywood Sheathing
22/23” or 5/8” Thick

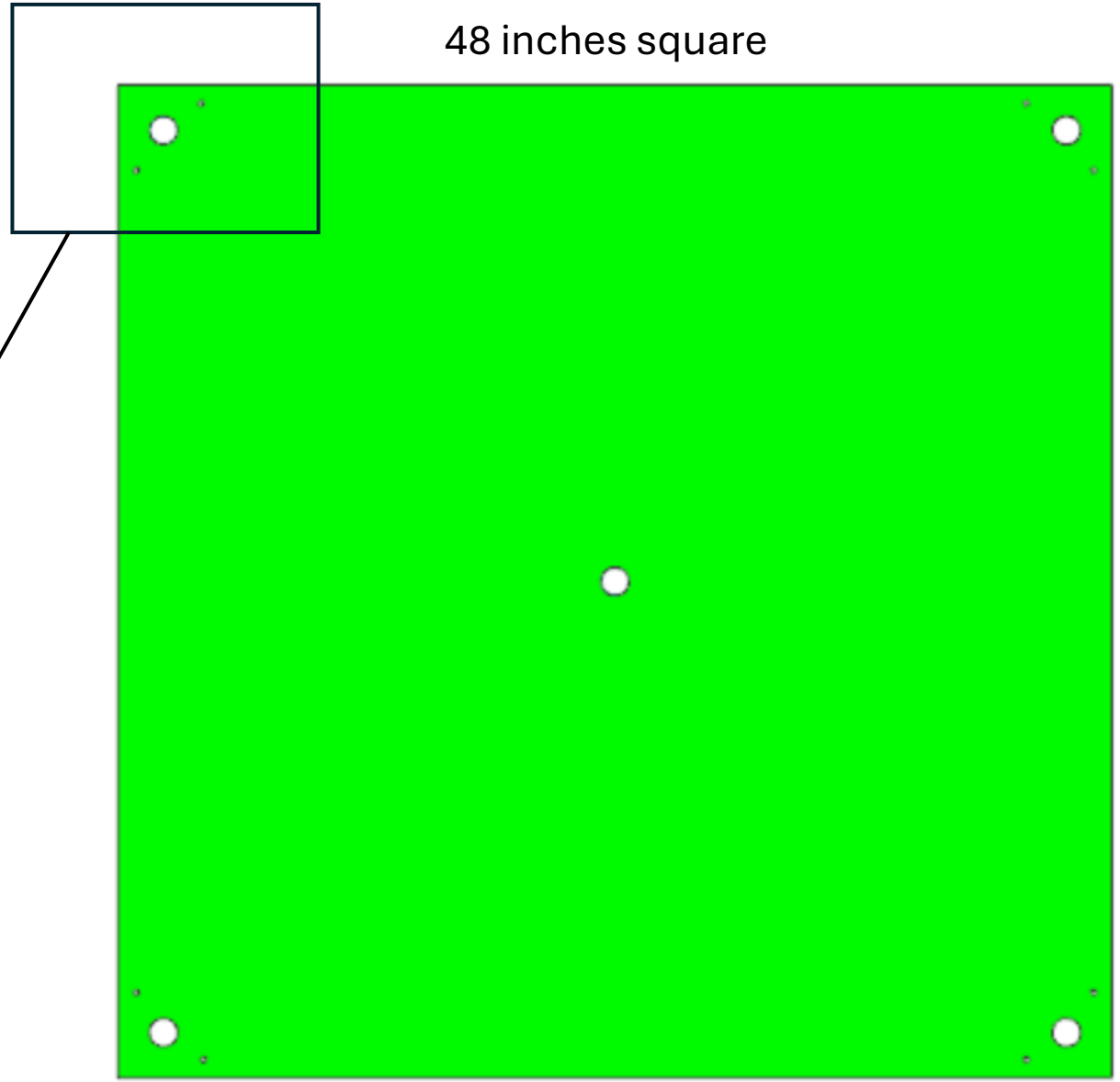


Supports are screwed to the corner and the center of underside of the top plate and counter sunk with 4 screws each.

#9 Bottom Plate

4’x8’ Plywood Sheathing
22/23” or 5/8” Thick

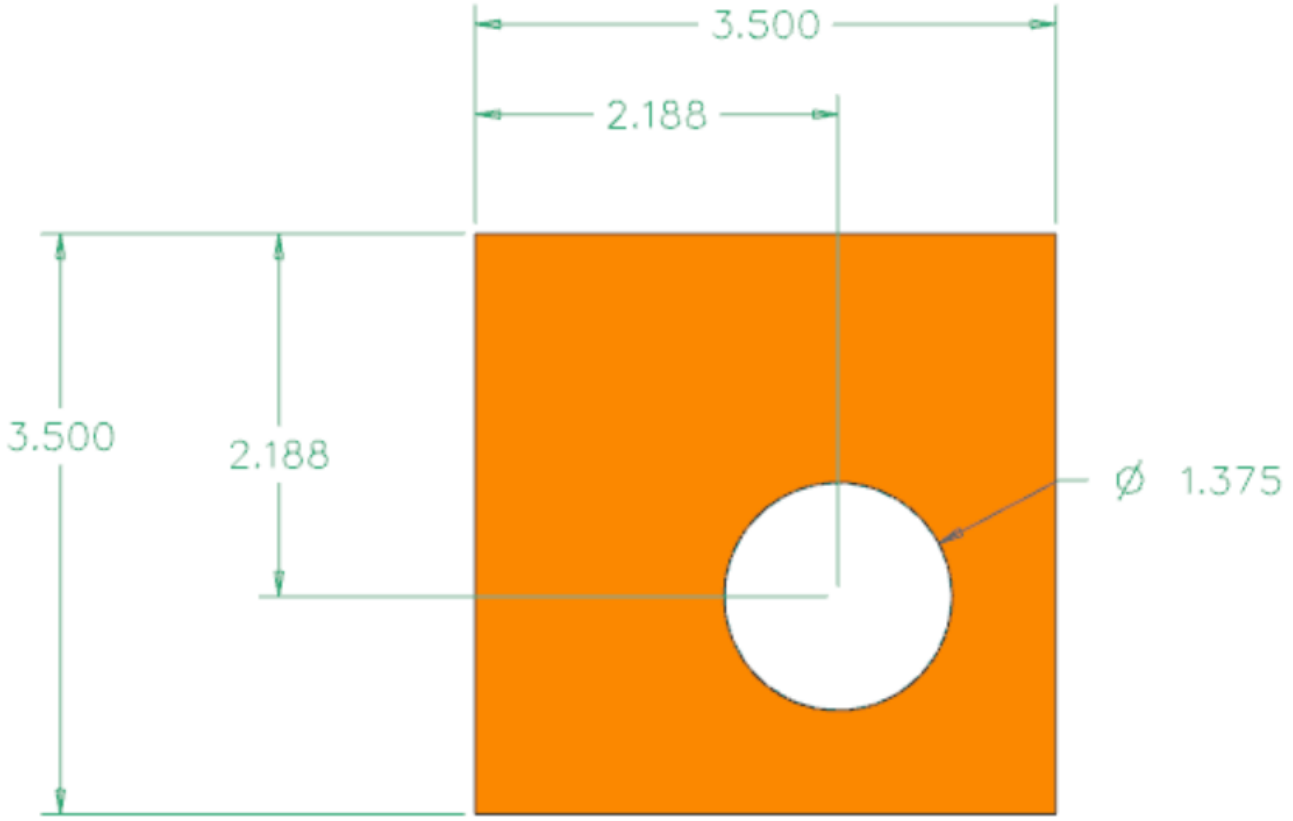




Footers are screwed to the corners and the center of the underside of the bottom plate and counter sunk with 4 screws each.

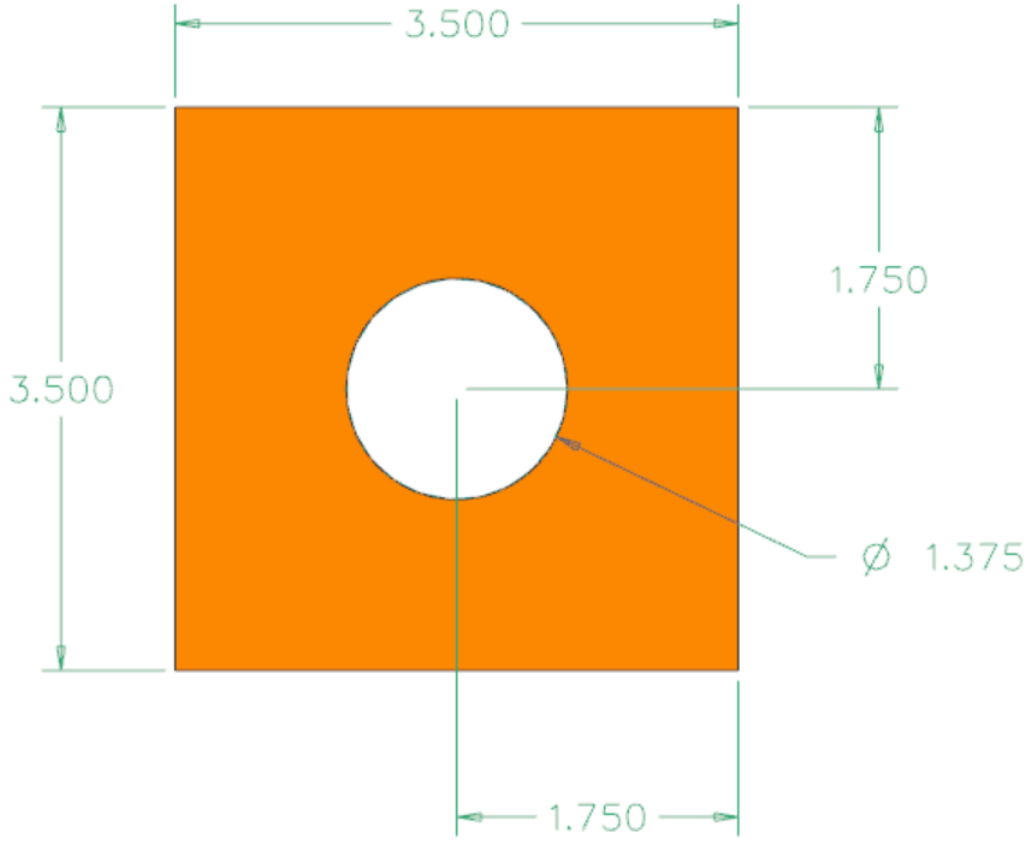
#11 Corner Support

2”x4” Lumber
1.5” Thick



#12 Middle Support

2”x4” Lumber
1.5” Thick



#13 Regular Side Wall

4’x8’ OBS Sheathing
1/2” Thick



#14 Irregular Side Wall 1

4’x8’ OBS Sheathing
1/2” Thick
Make From Regular Side Wall



#15 Irregular Side Wall 2

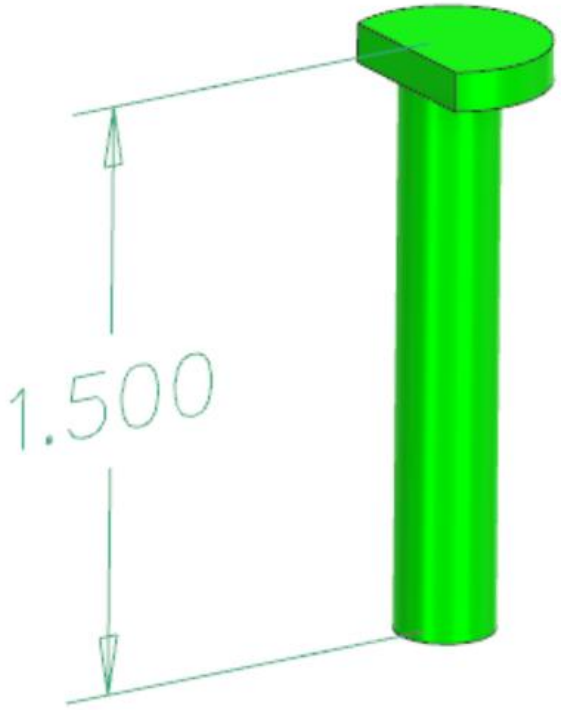
4’x8’ OBS Sheathing
1/2” Thick
Make From Regular Side Wall



#17 Modified Door Hinge Pin

One Side of Head
Cut Flat

Cut to 1.5” Length



Assembly Instructions (Takes 2 People)

- Place bottom plate at desired location with footers facing down.
- Place sandbags on the bottom plate.
- Place #3 at middle hole.
- Place #3 at corner hole.
- Place top plate corner support hole on #3 corner pipe.
- Rotate top plate middle support hole to align with the #3 middle pipe.
- Place both #1 and #2 pipes in the top plate holes and down into the bottom plate holes.
- Place the #14 and #15 irregular side walls at the #3 corner.
- Place the #13 regular side walls at the other walls.
- Fit side walls into each other and slide in pins to lock in place.
- For other additional support wrap in 2 webbing straps.
- For further additional support consider drilling corresponding holes on each side of the top and bottom plates and tie them together.

Modifications

- Other sized obstacles can be made using this same pattern but changing the overall dimensions of the top and bottom plates, and the height and length of the side walls.