
Backyard Deck

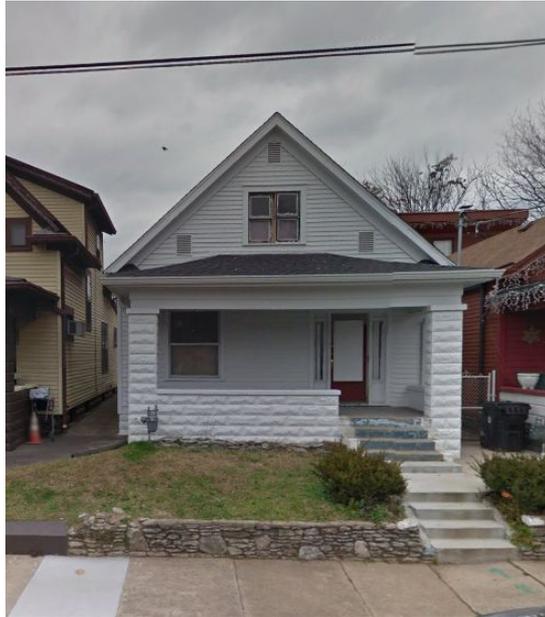
715 Shelby Parkway

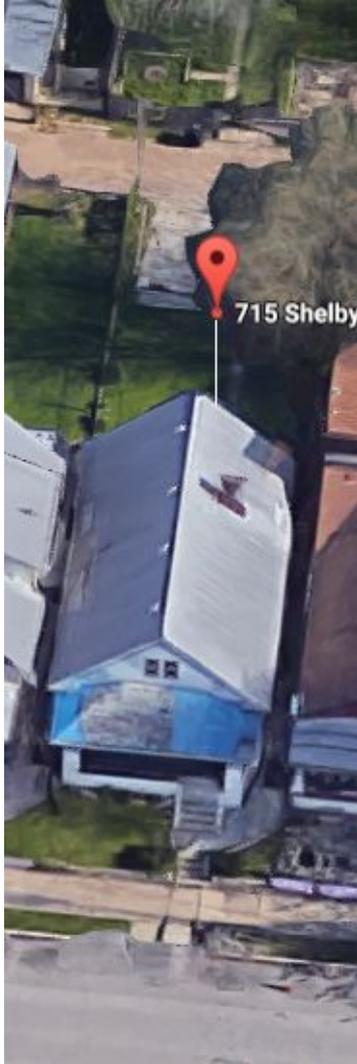
Special Considerations:

- Variance needed for placement of decking over 2' setback
-

Property

715 Shelby Parkway Louisville, KY 40203

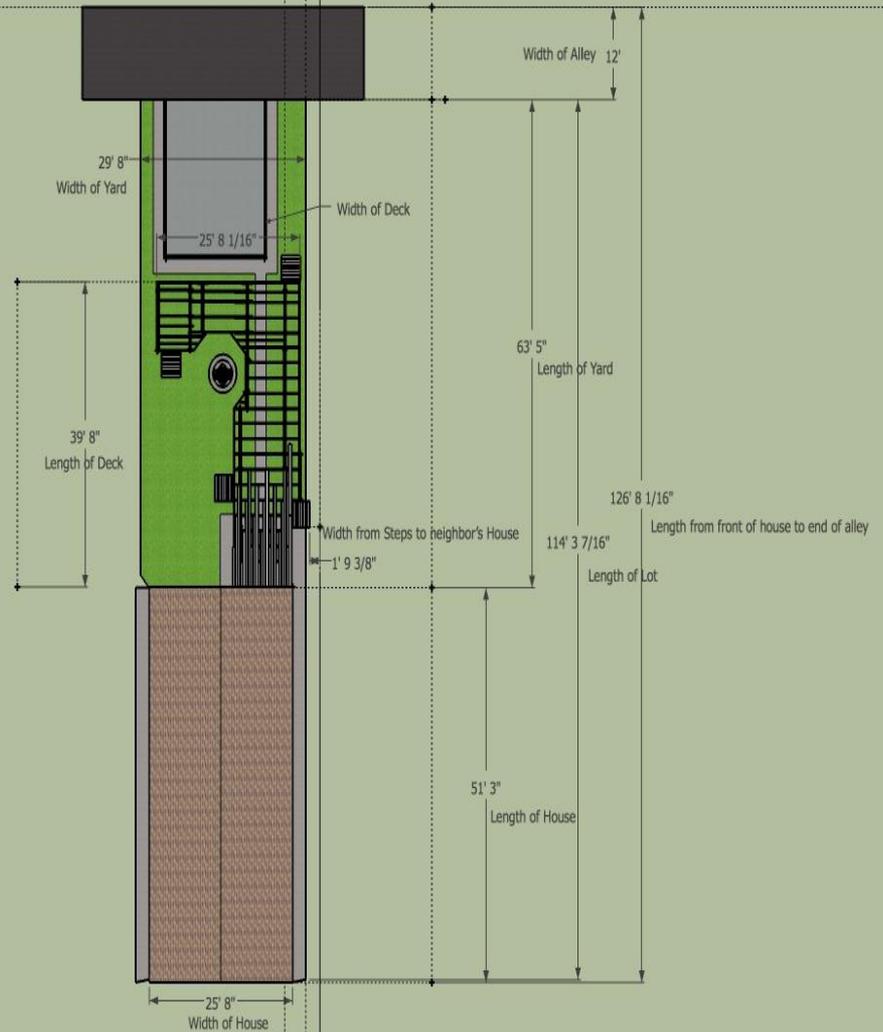


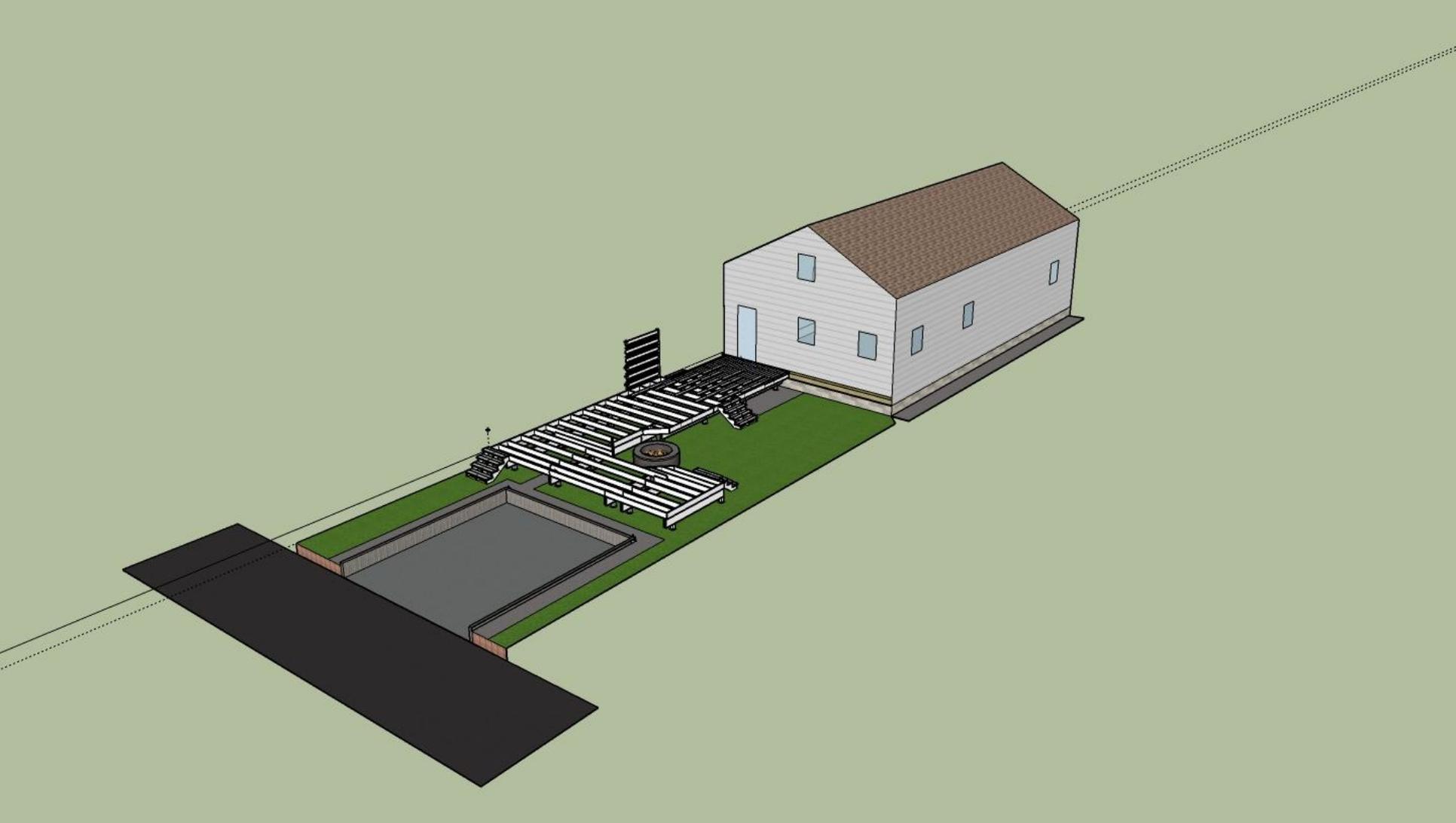


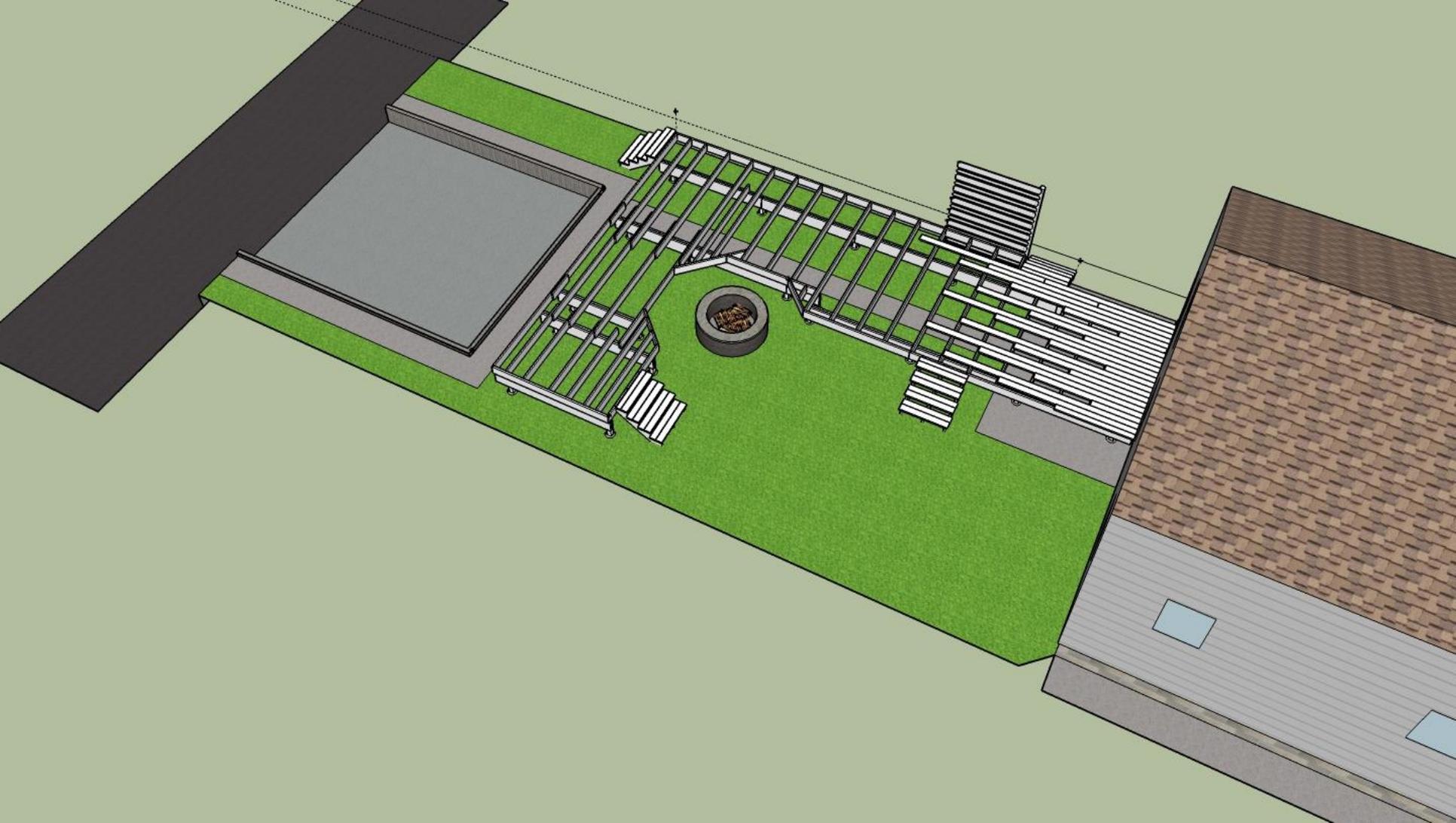
Free Standing Deck

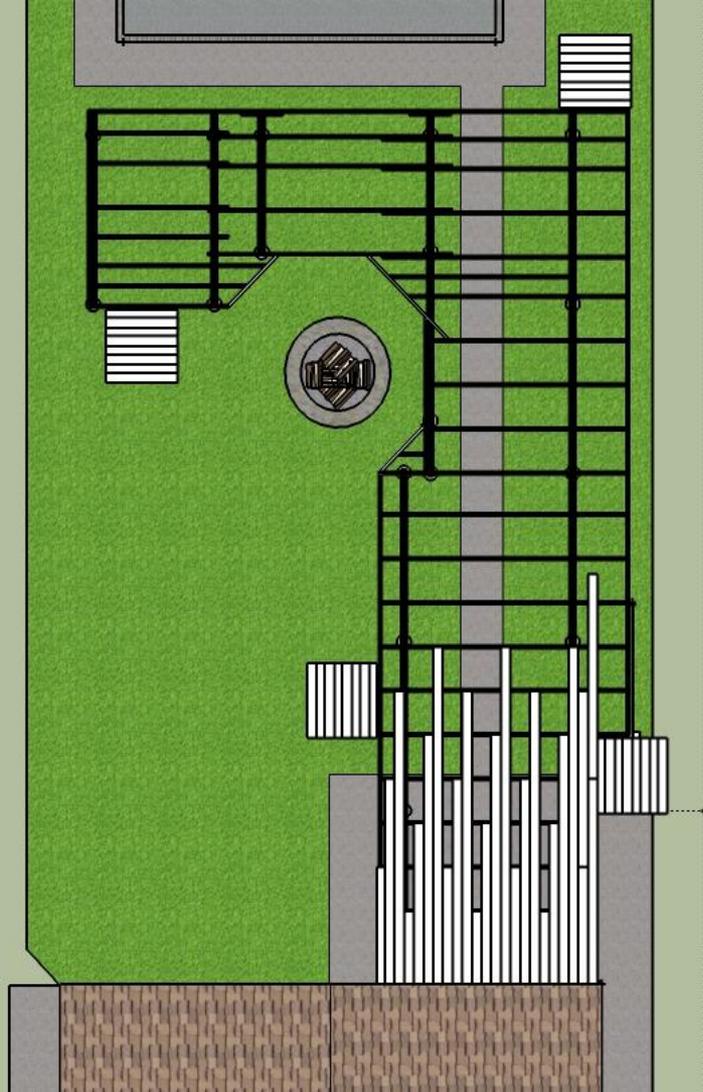
- **Wood Deck: Southern Yellow Pine**
- **24" Deep Footer/Pier Combo**
Connected Using #4 Rebar with L Bend
- **Pier - J-Bolt - Steel Post Base - 4x4 Post Connection**
- **2-2x12 Beams spliced with ½" Plywood - Steel Post Cap - 2x8 Joist Connections**
- **5/4x6 Decking Boards**

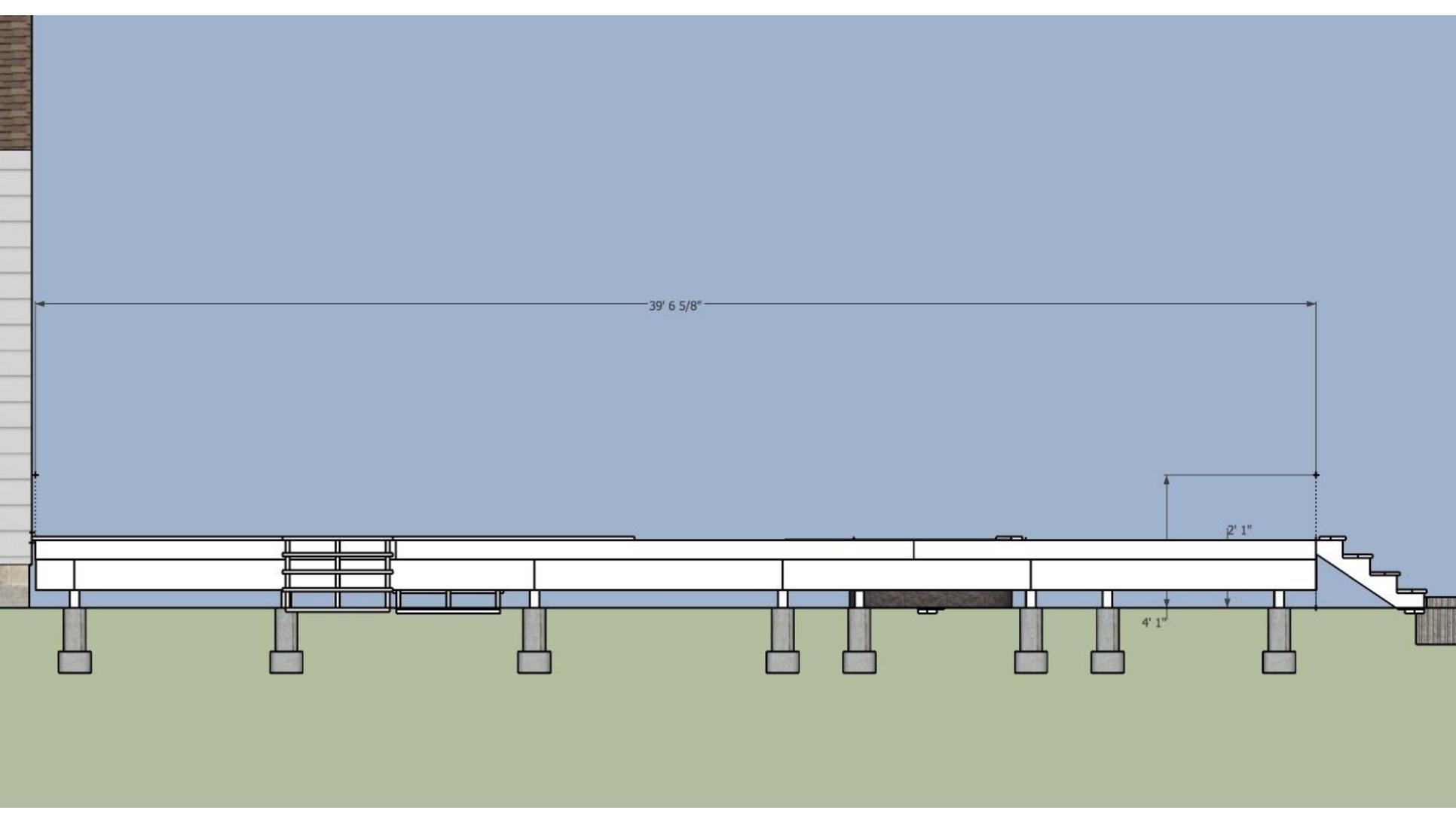
Design Layout







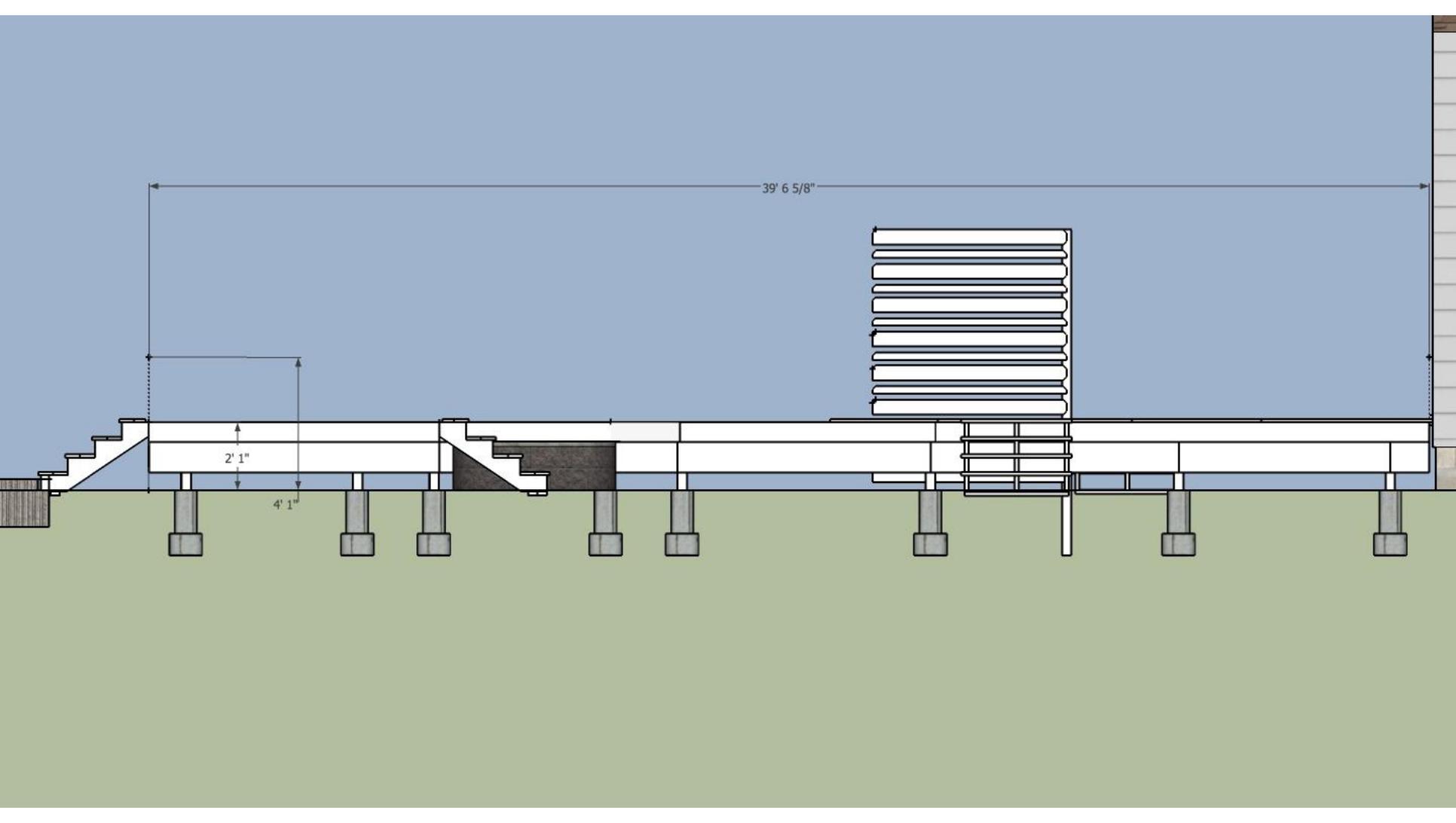




39' 6 5/8"

2' 1"

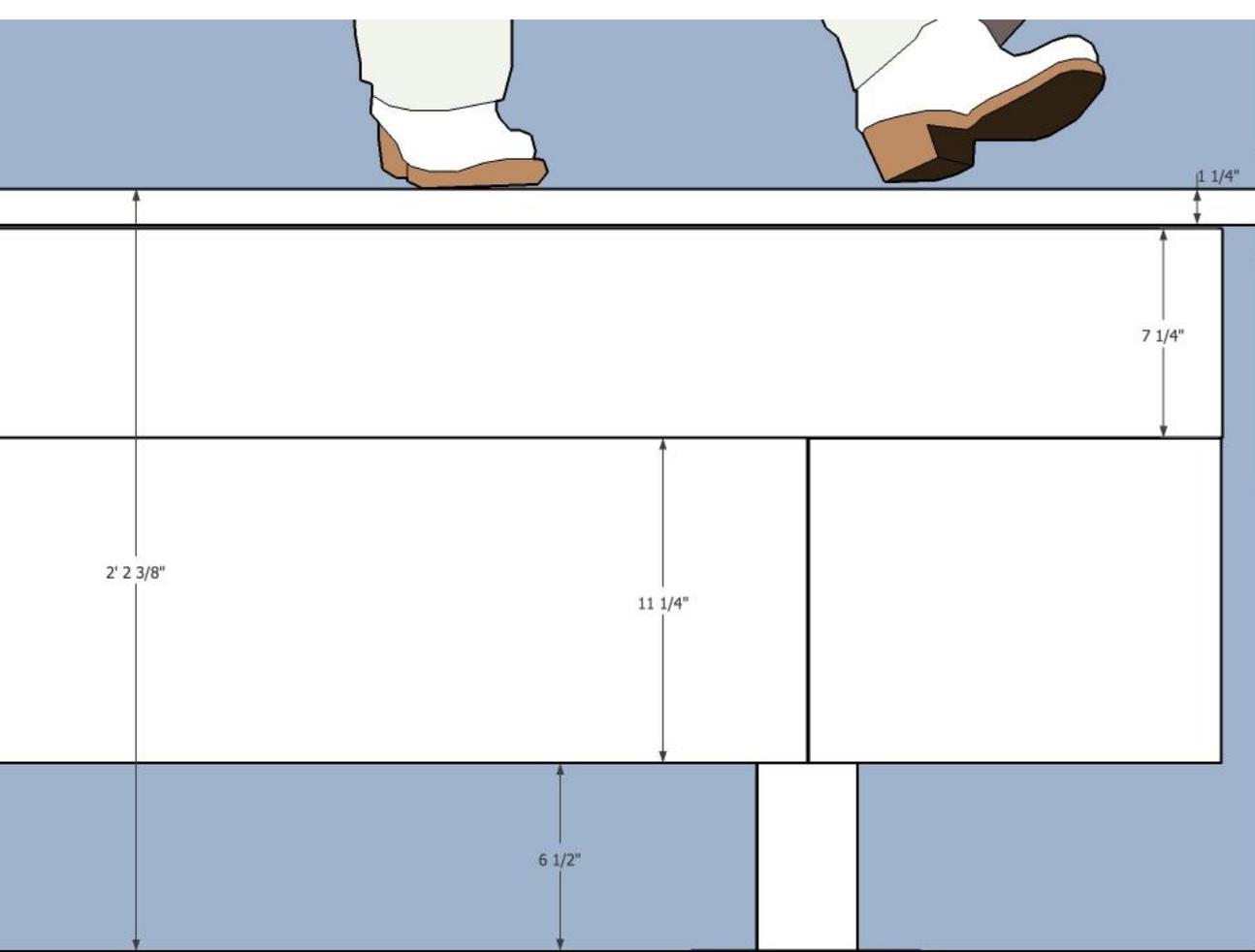
4' 1"





25' 8 1/16"

2' 1"





1. Foundation

→ **8" Thick Footers with 12" Diameter**

Set 24" Deep with 6" Long pieces of #4 Rebar in an X pattern within.

→ **16" Thick Piers with 8" Diameter**

Set directly on top of footers and tied together using #4 Rebar with L-Bend; shaped using pier forms tubes secured to batter boards

→ **Total Design Load of 70PSF**

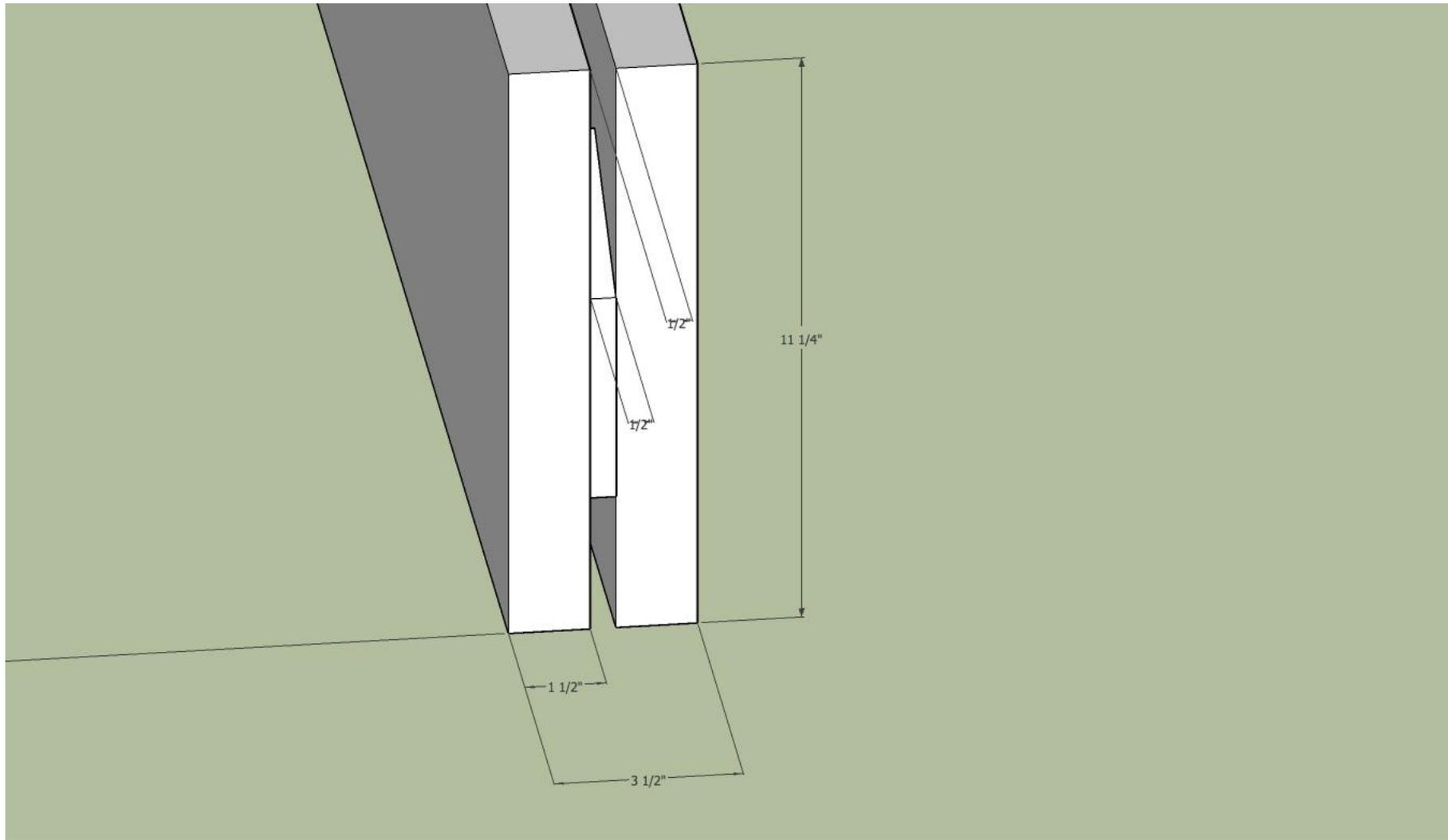
60 PSF Live Load and 10 PSF Dead Load.

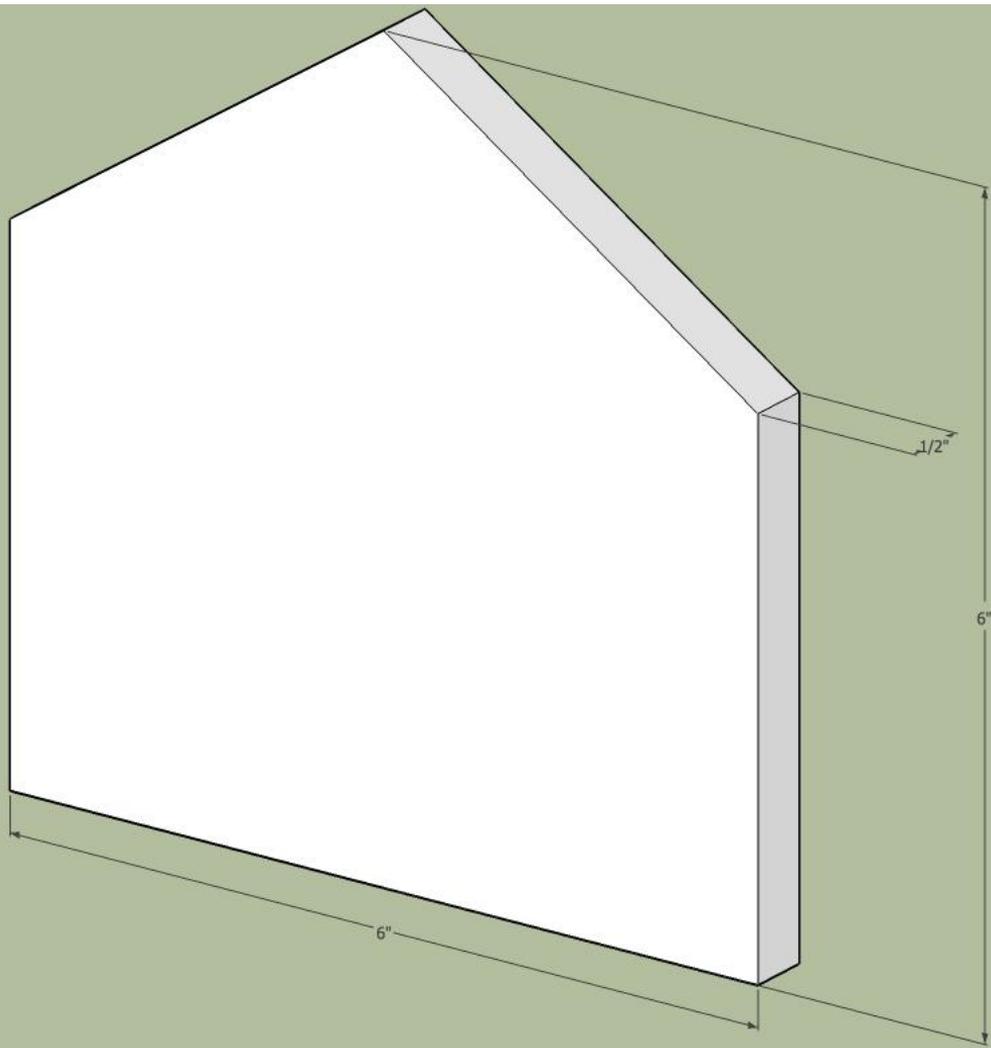
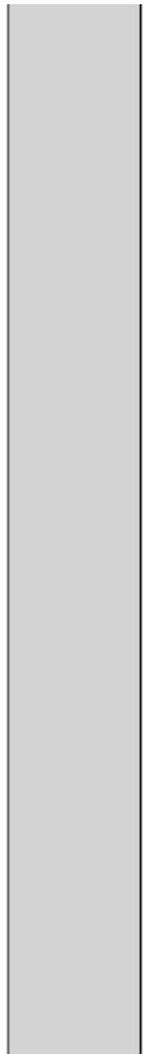


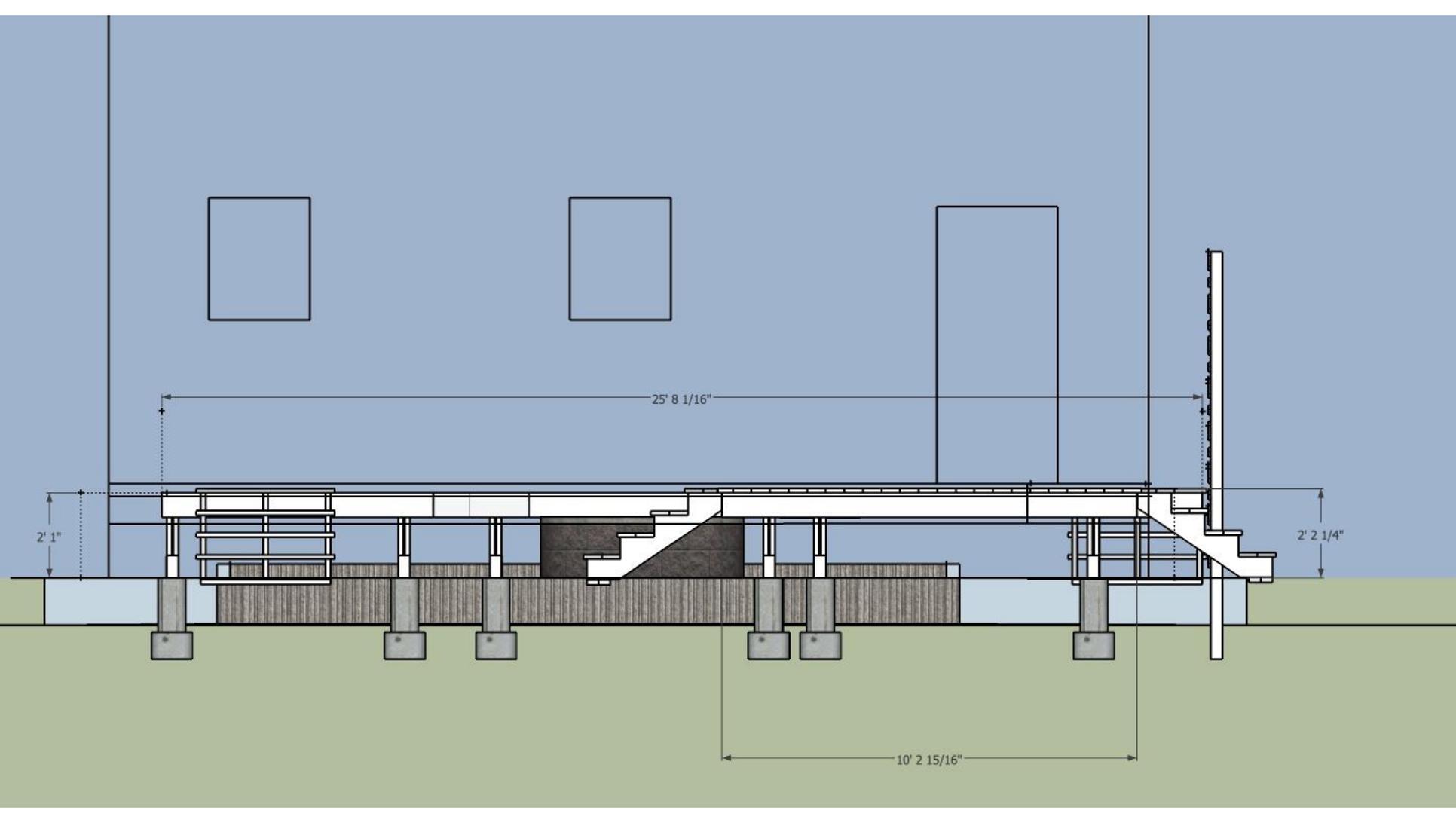
2. Beam System

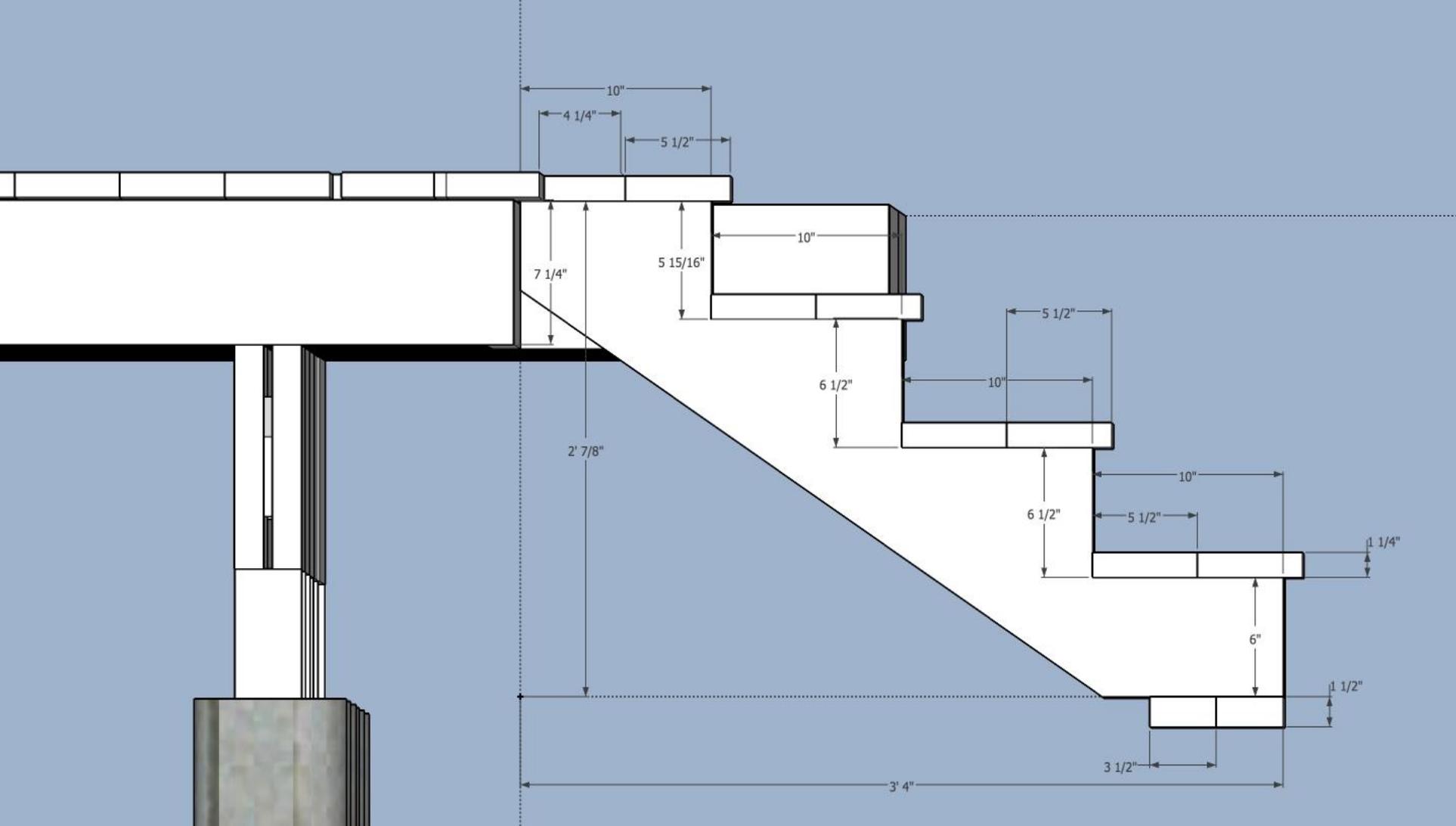
I plan on creating built-up beams consisting of 2-2x12 spliced together using $\frac{1}{2}$ " plywood spacers set every 24". I also plan on connecting beams where necessary using the $\frac{1}{2}$ " piece of plywood as a tongue for a slip-joint application with connected beams breaking over posts and secured using post caps. Beams will be fastened together using 12 D hot dip galvanized nails.

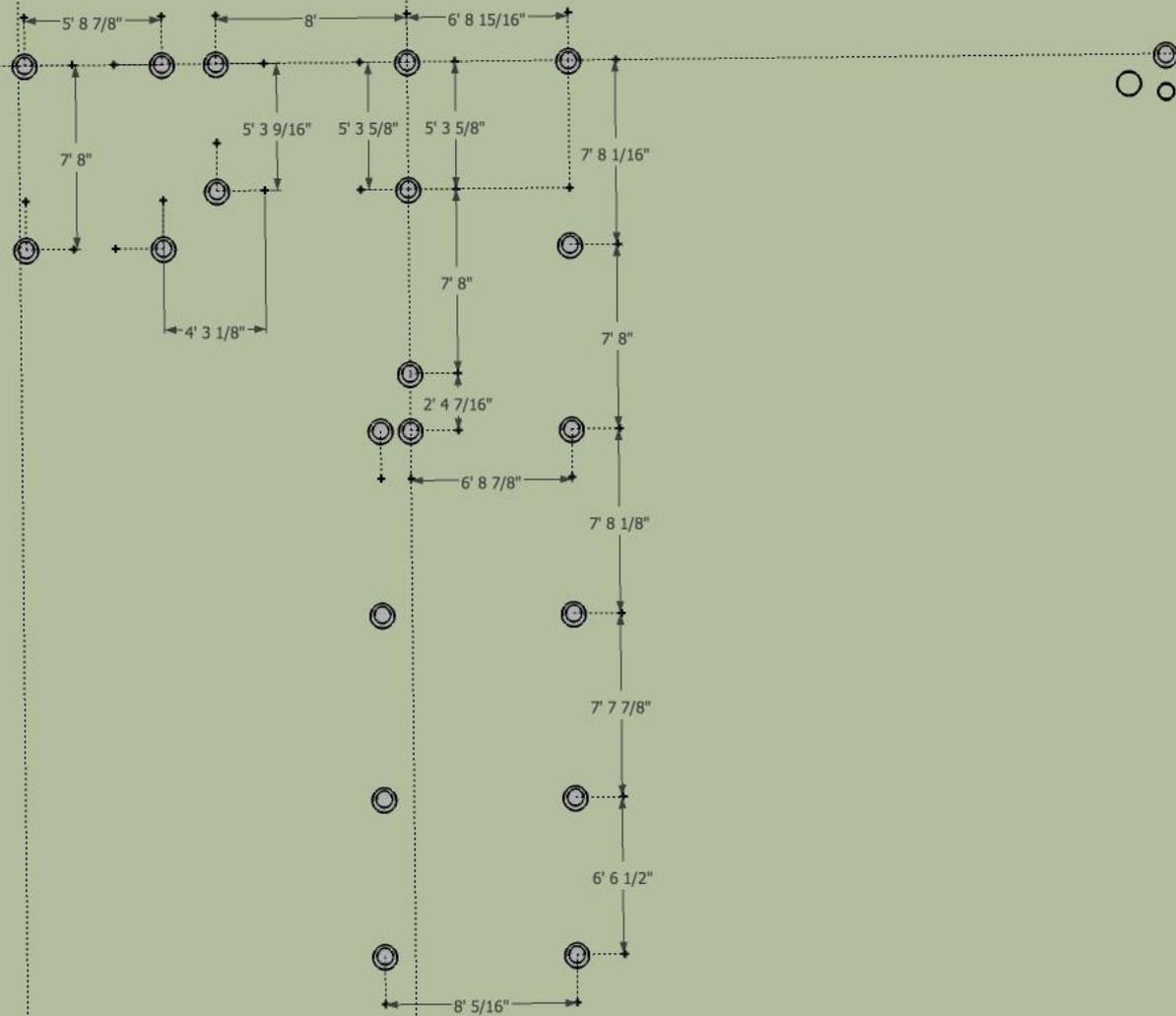
Posts will be spaced so that beams will span will be 7'8" between posts anticipating a maximum joist span of 6' using 2x8 lumber,

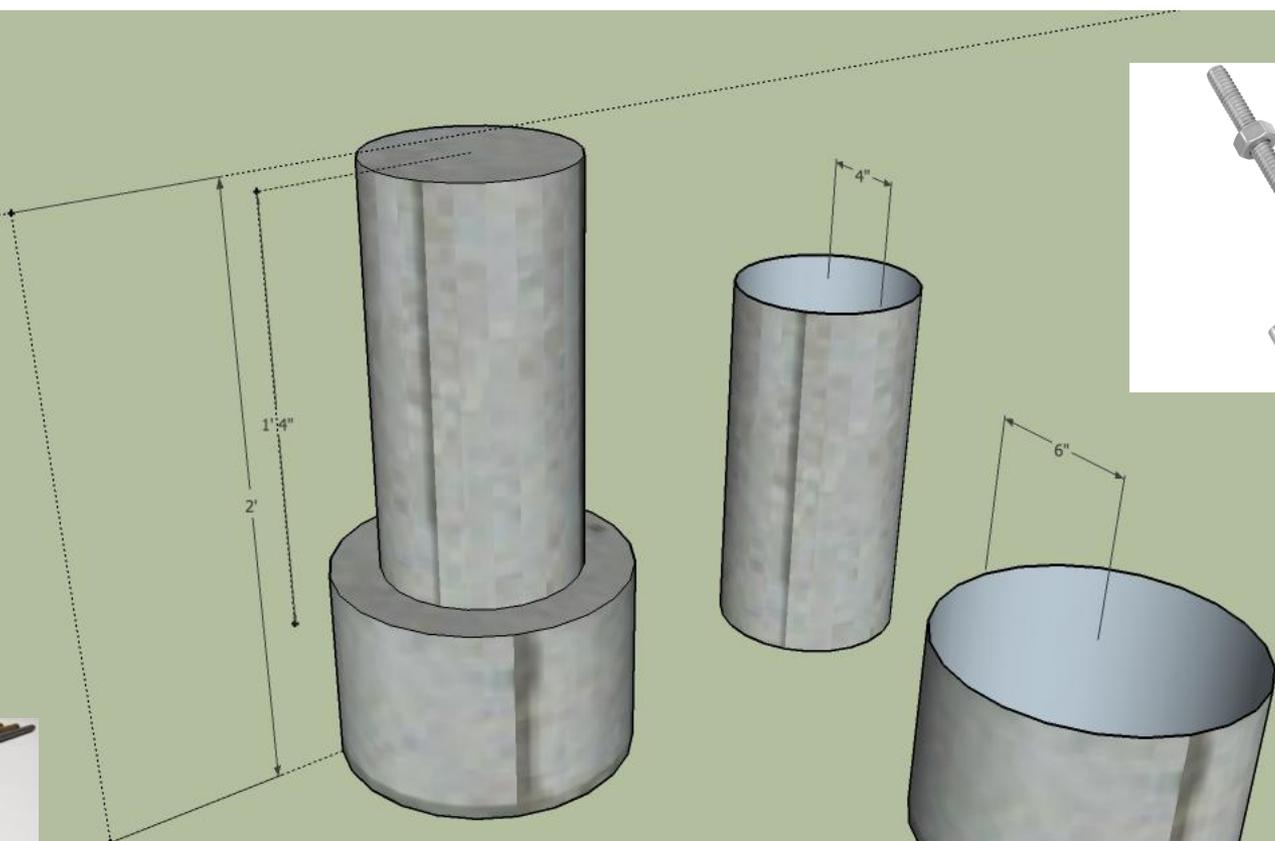
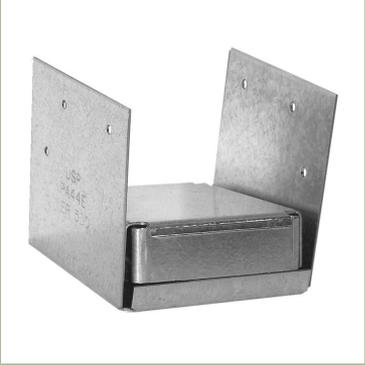




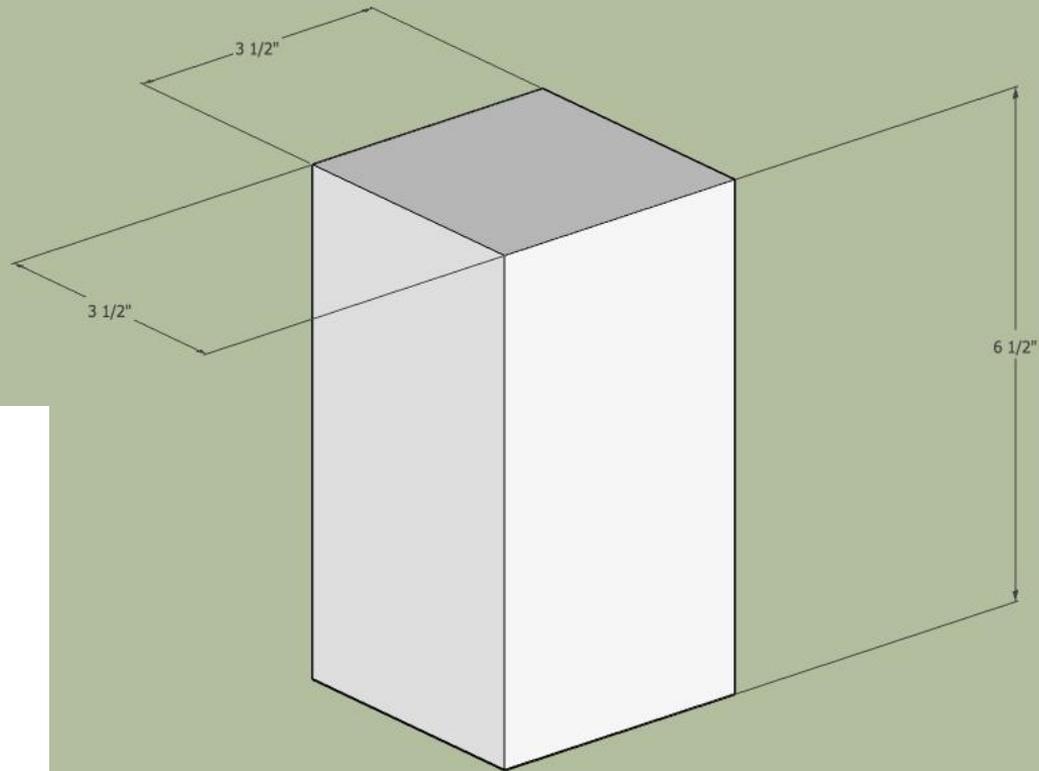


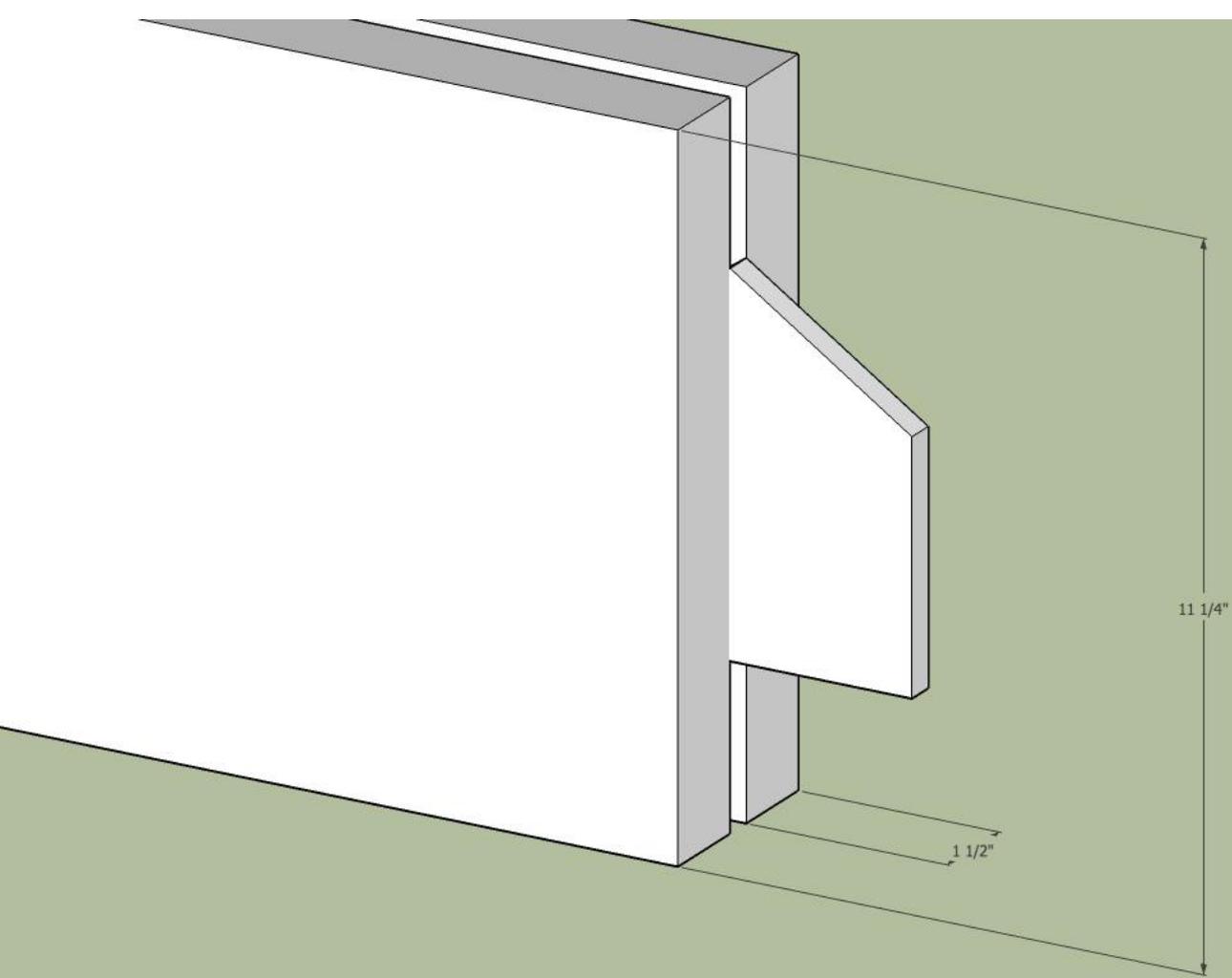


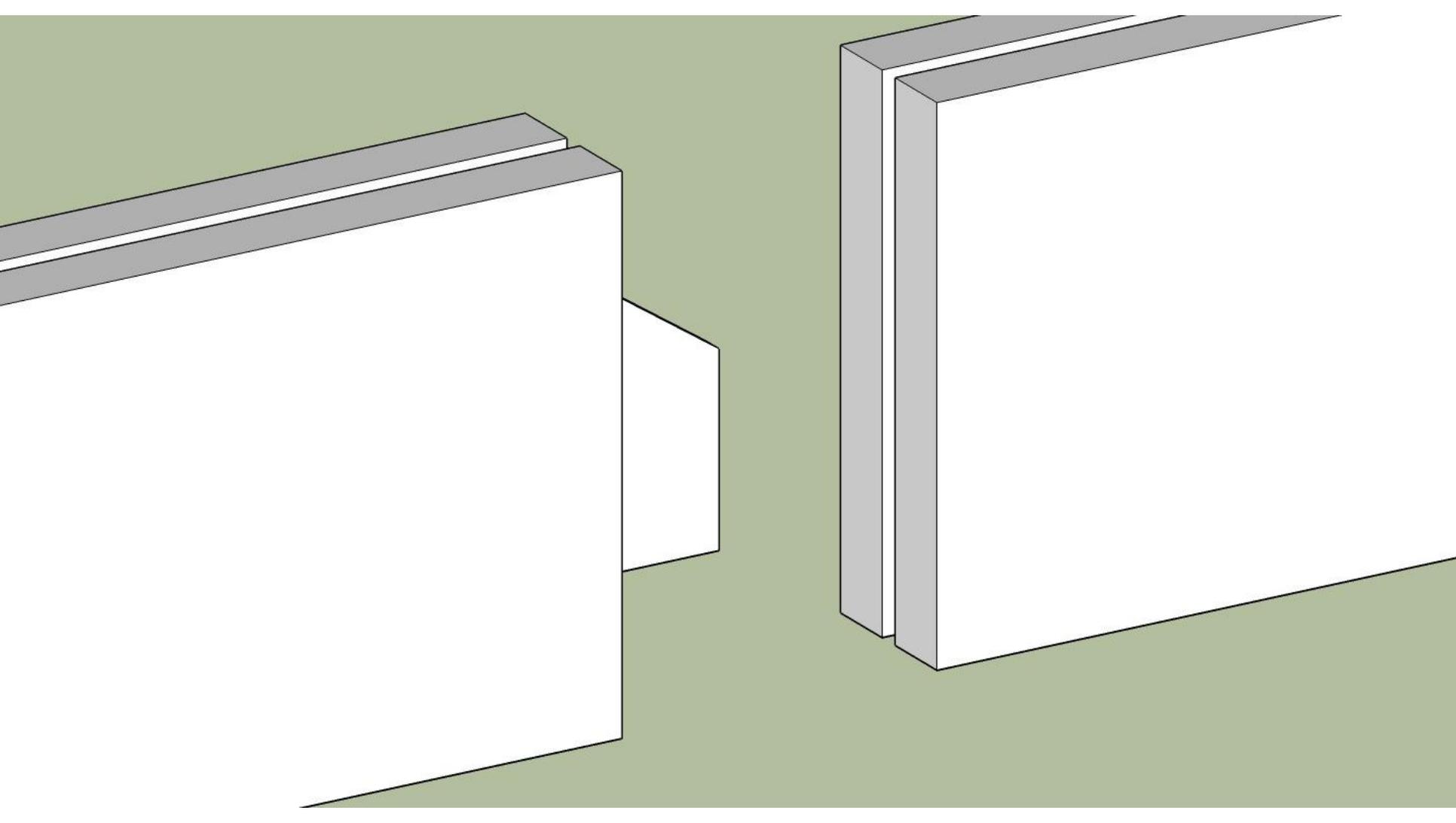


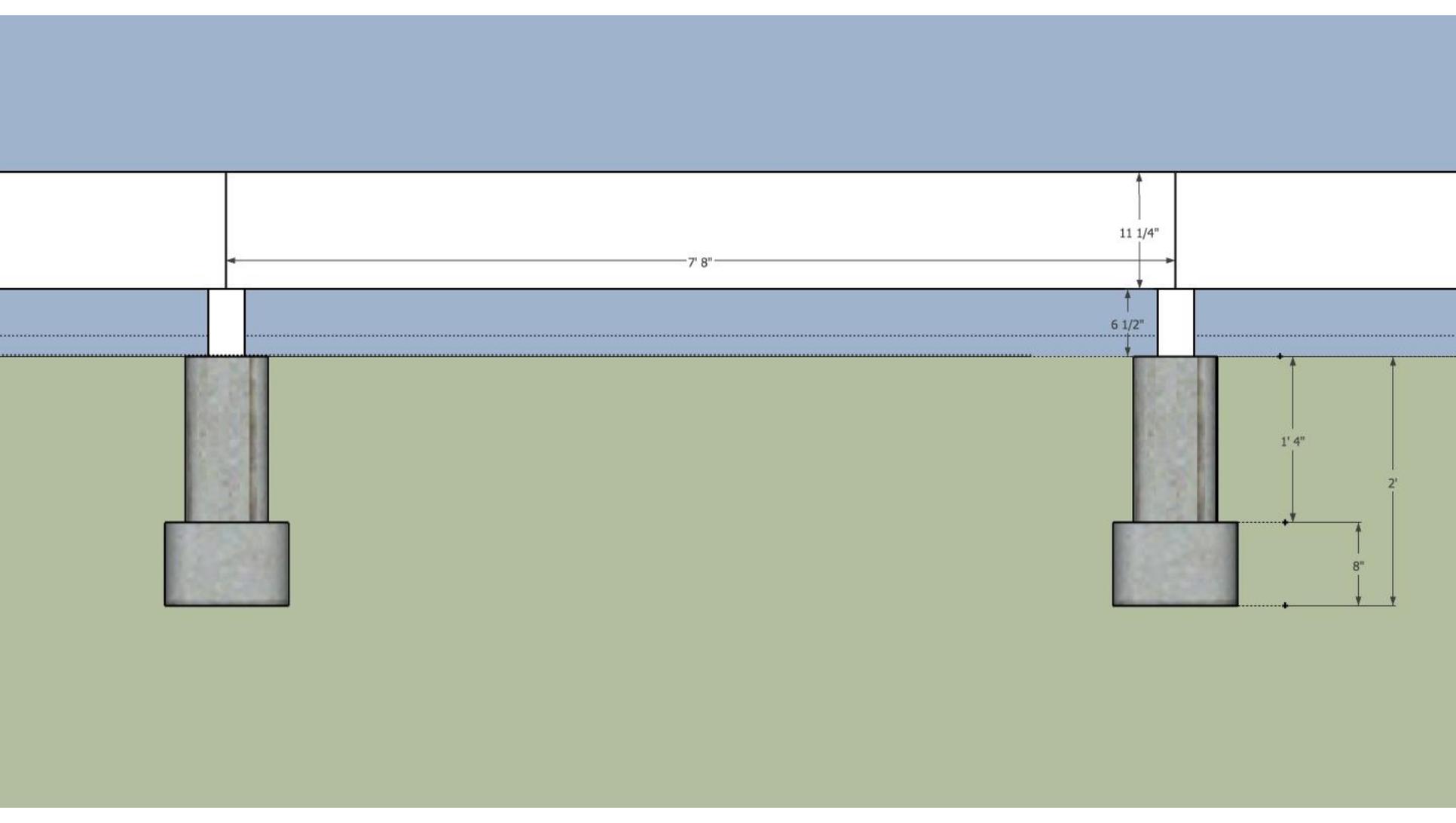


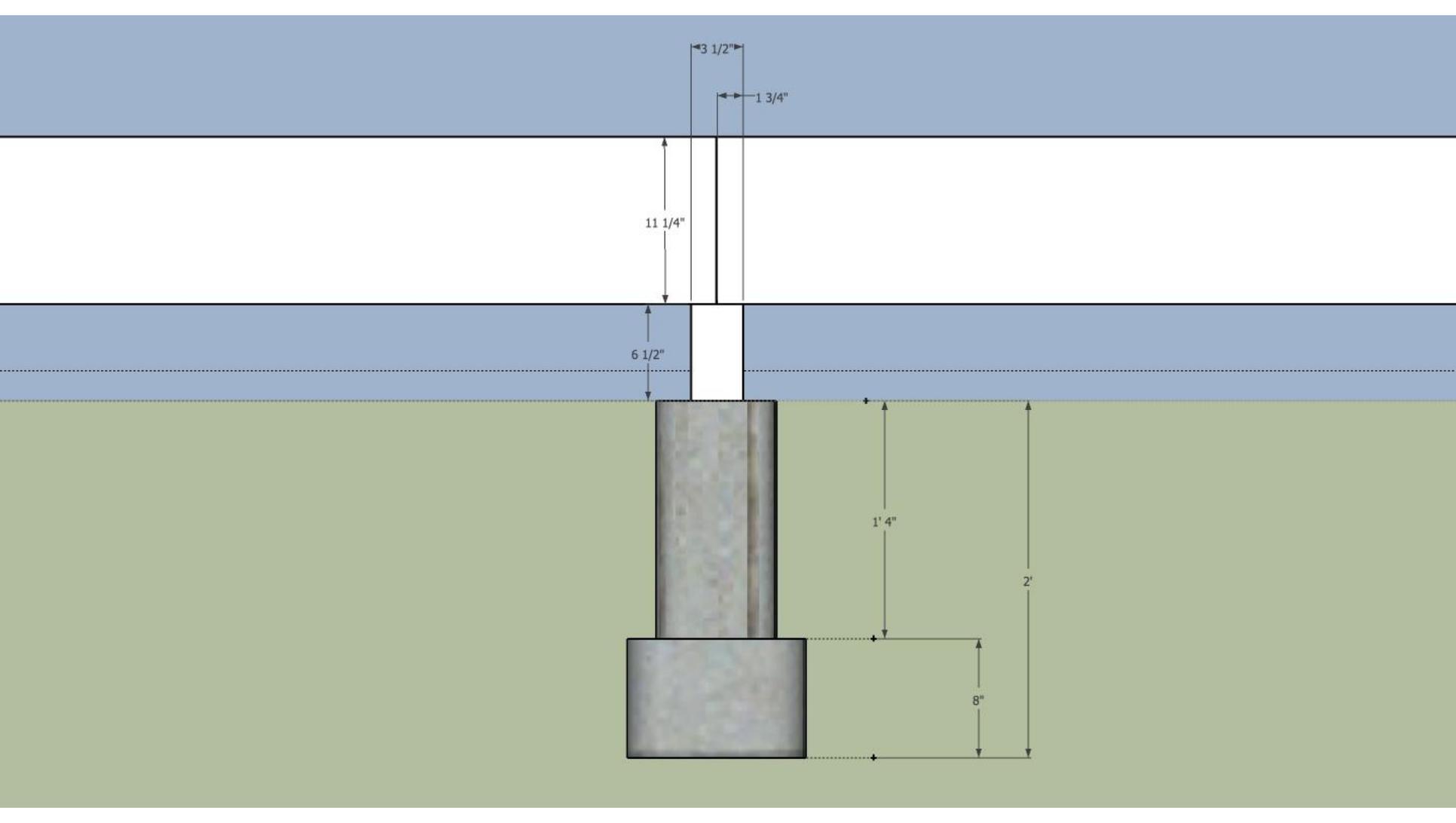
Using fasteners as prescribed by post cap manufacturer

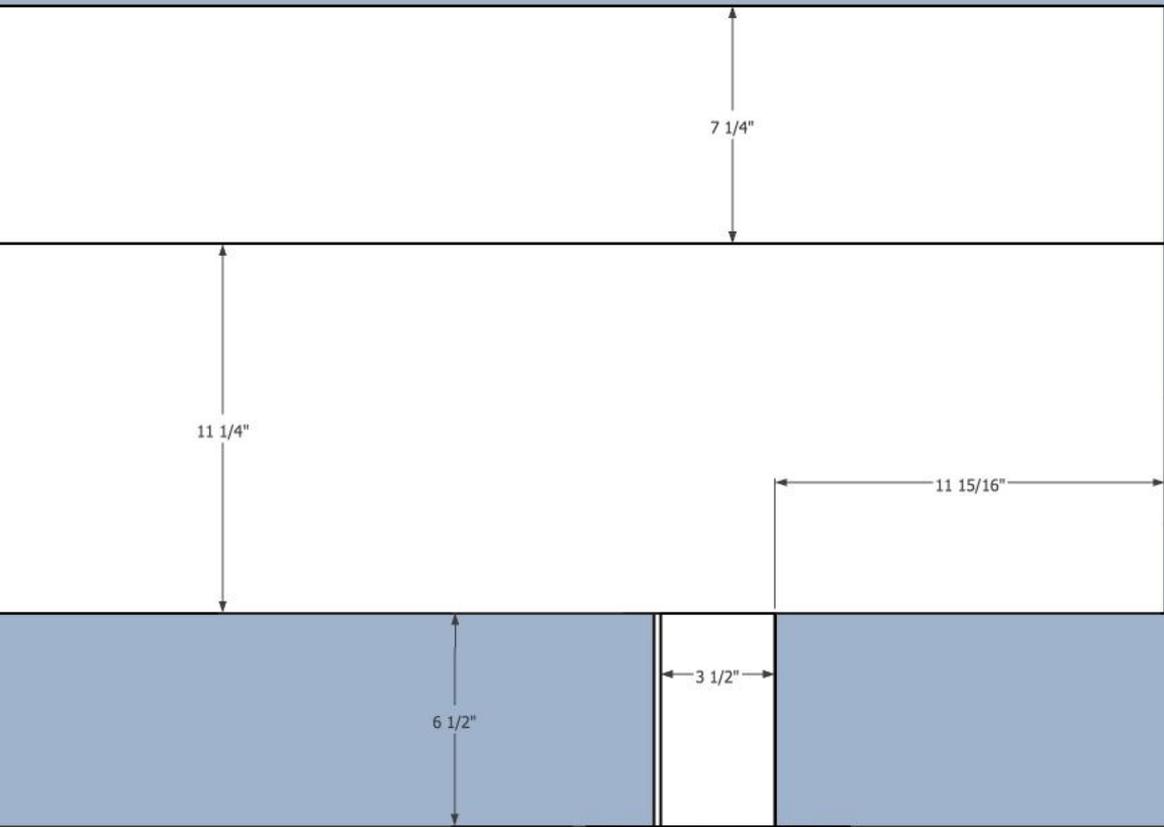


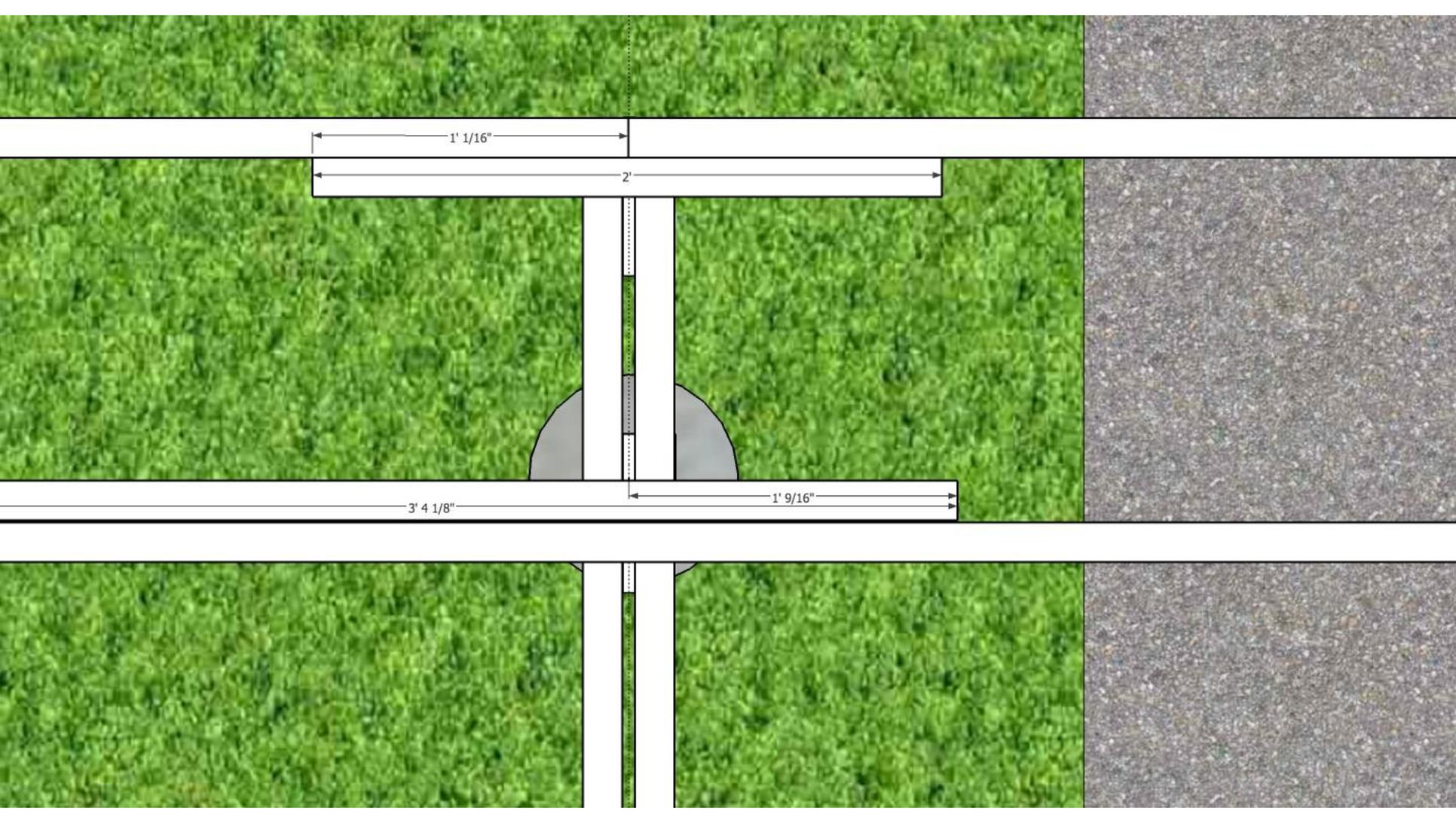










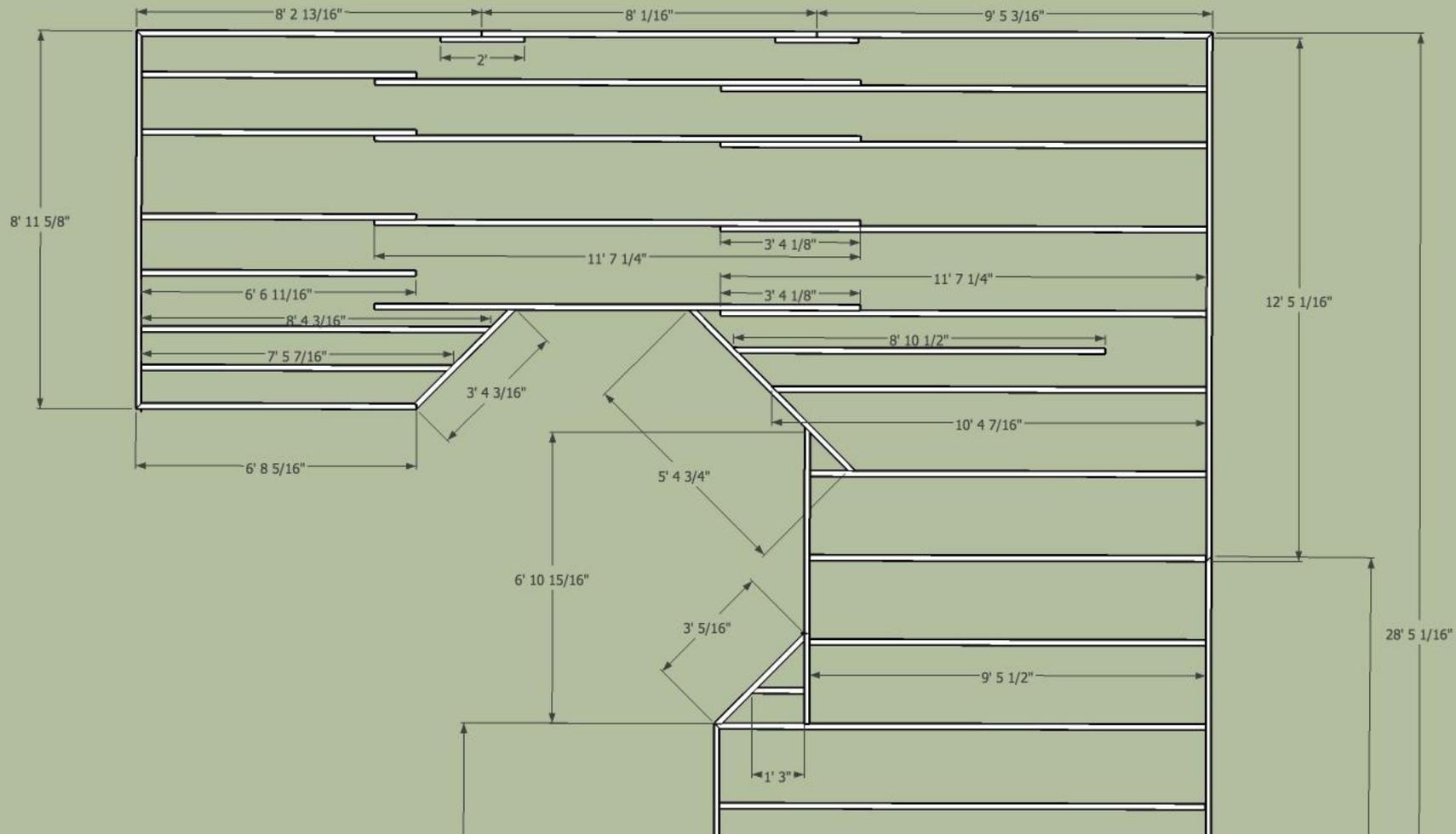


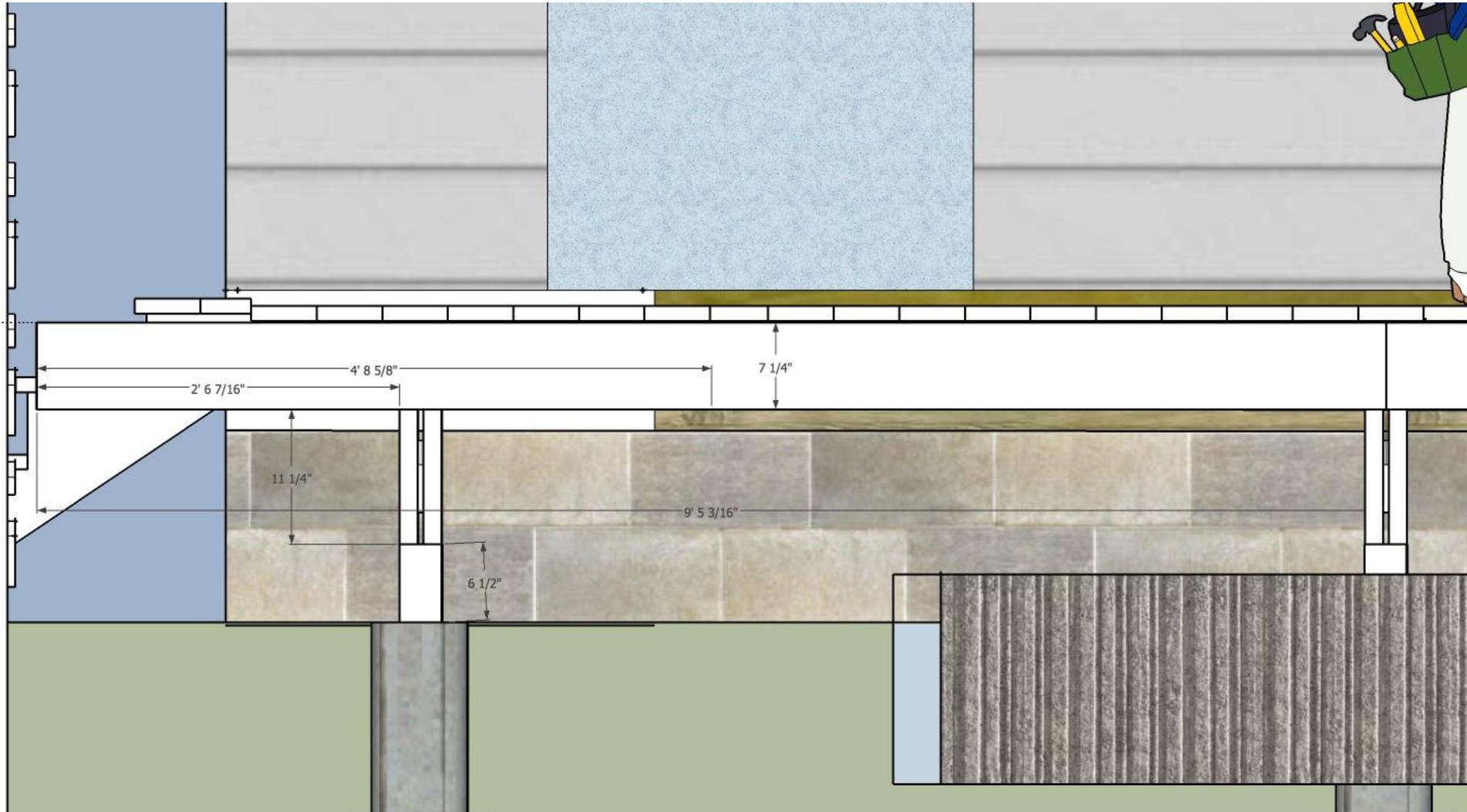


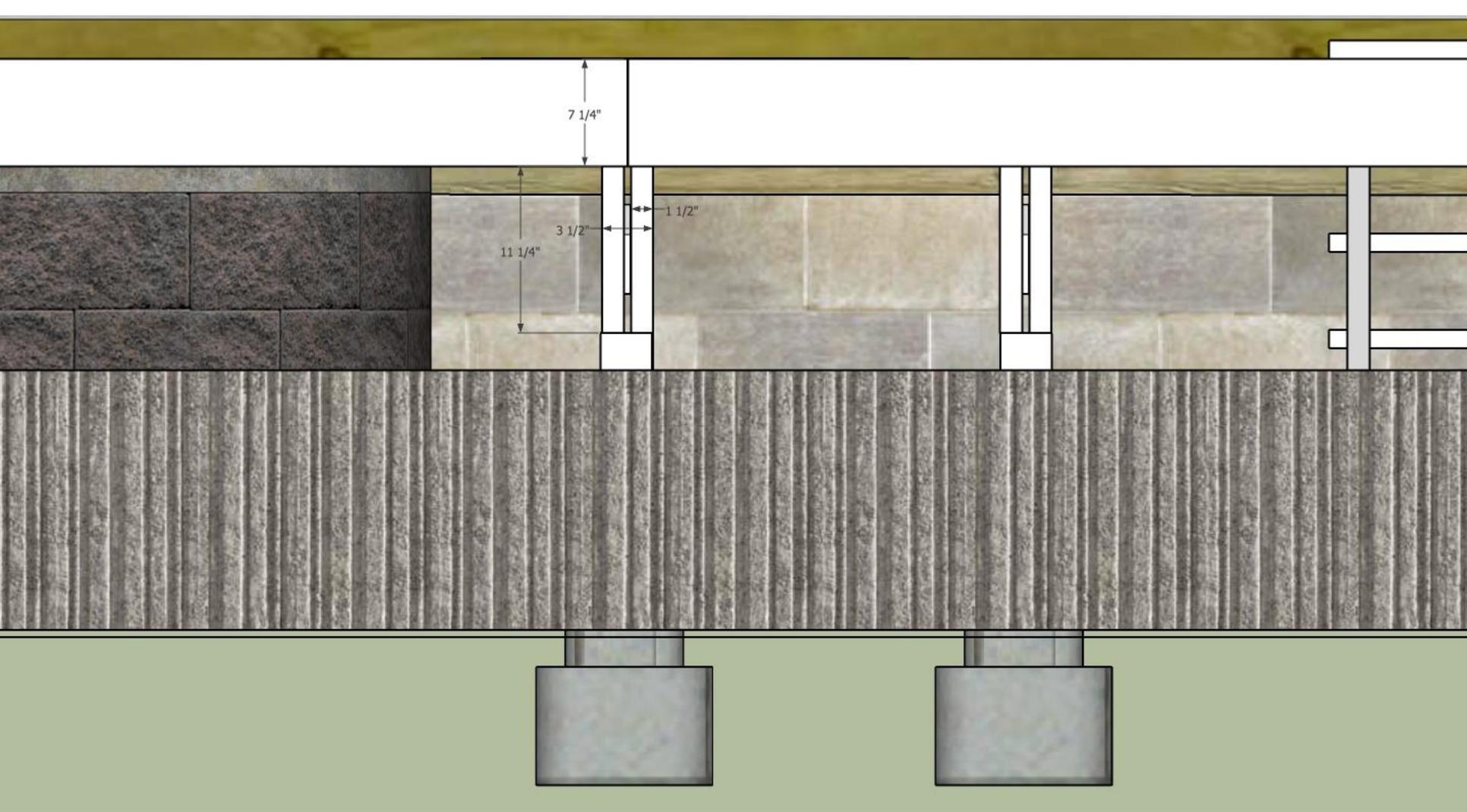
3. Joist System

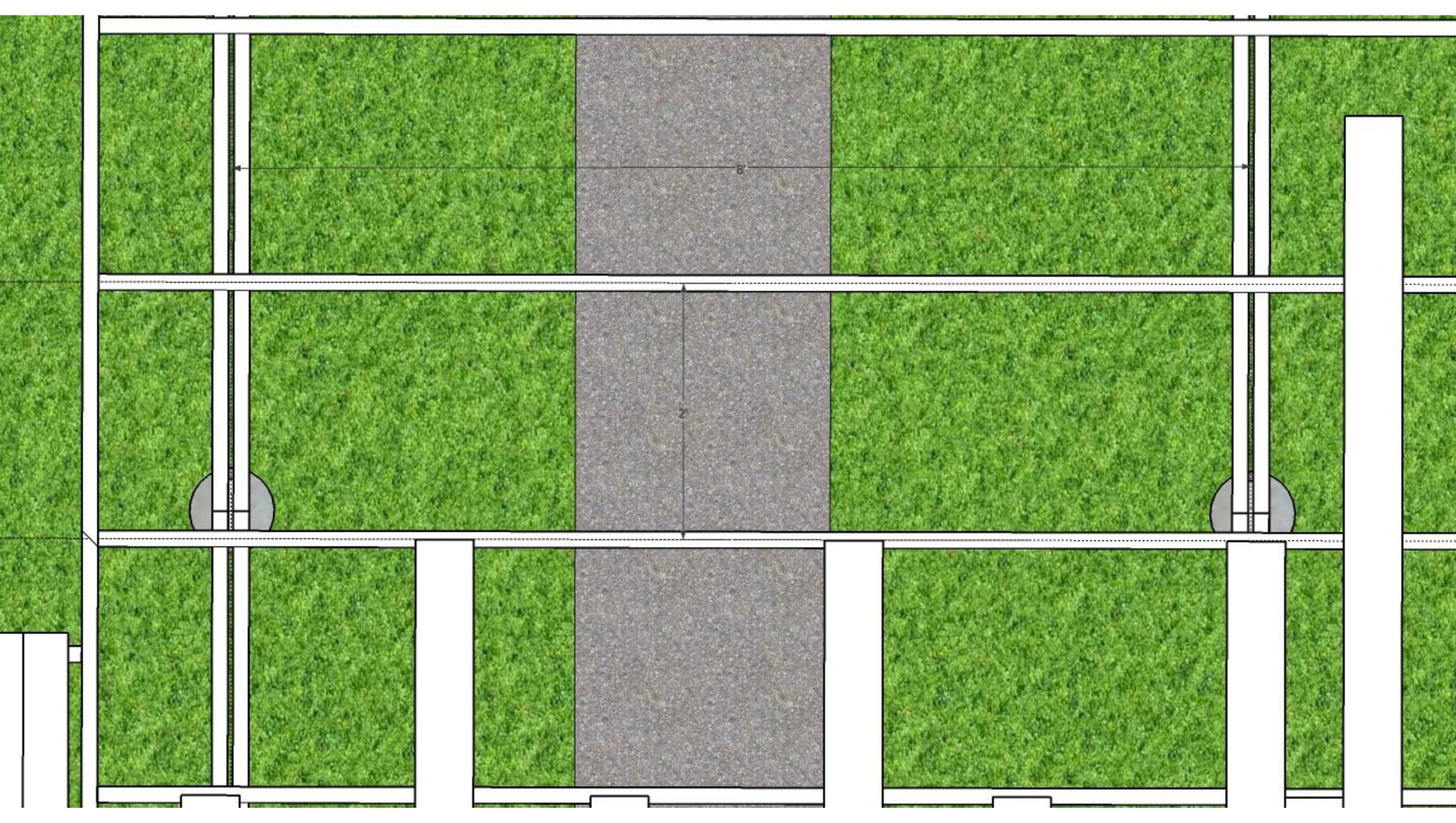
Joists consist of 2x8 boards of varying lengths fastened using 1 ½" hot dipped galvanized nails and betal ties/straps.

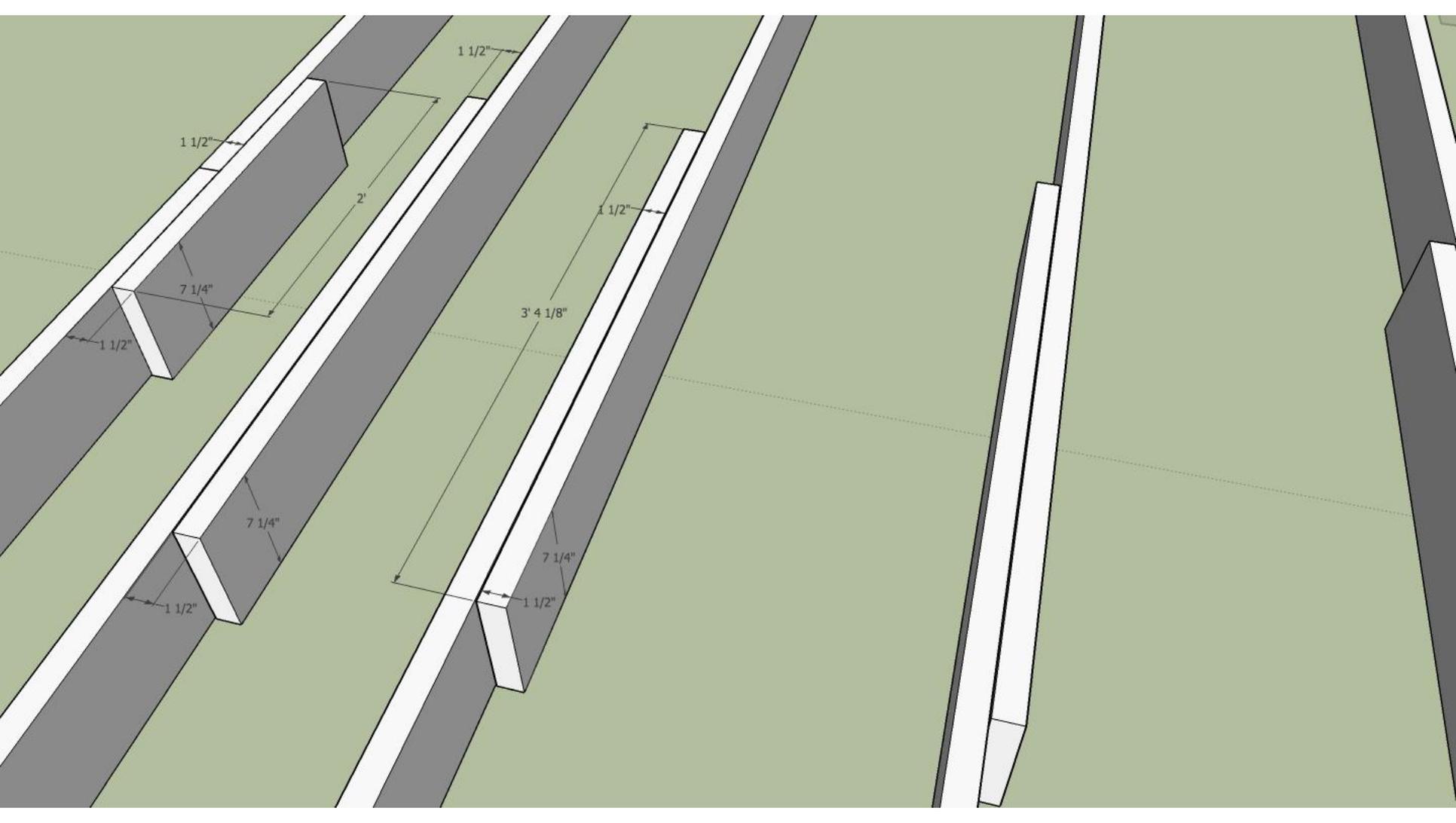
- **Max Joist Span: 6'; spaced 24"OC**
- **Connecting Joists overlap min. Of 12" and break over post.**
- **Butt joints break over post and are tied together using a 24" scrap piece of 2x8 centered over post.**
- **Joists cantilever max. Of 29"**









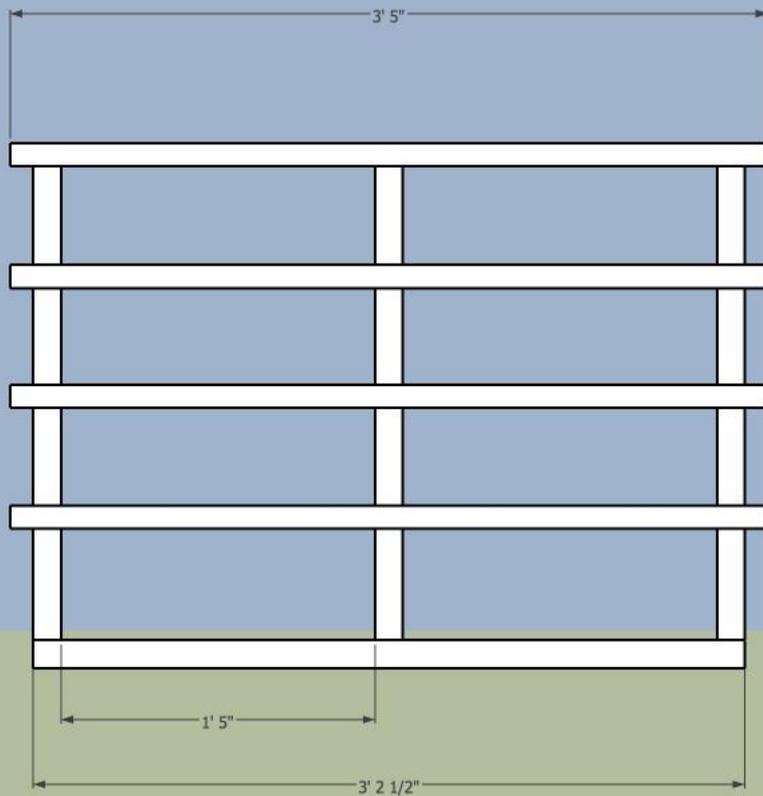


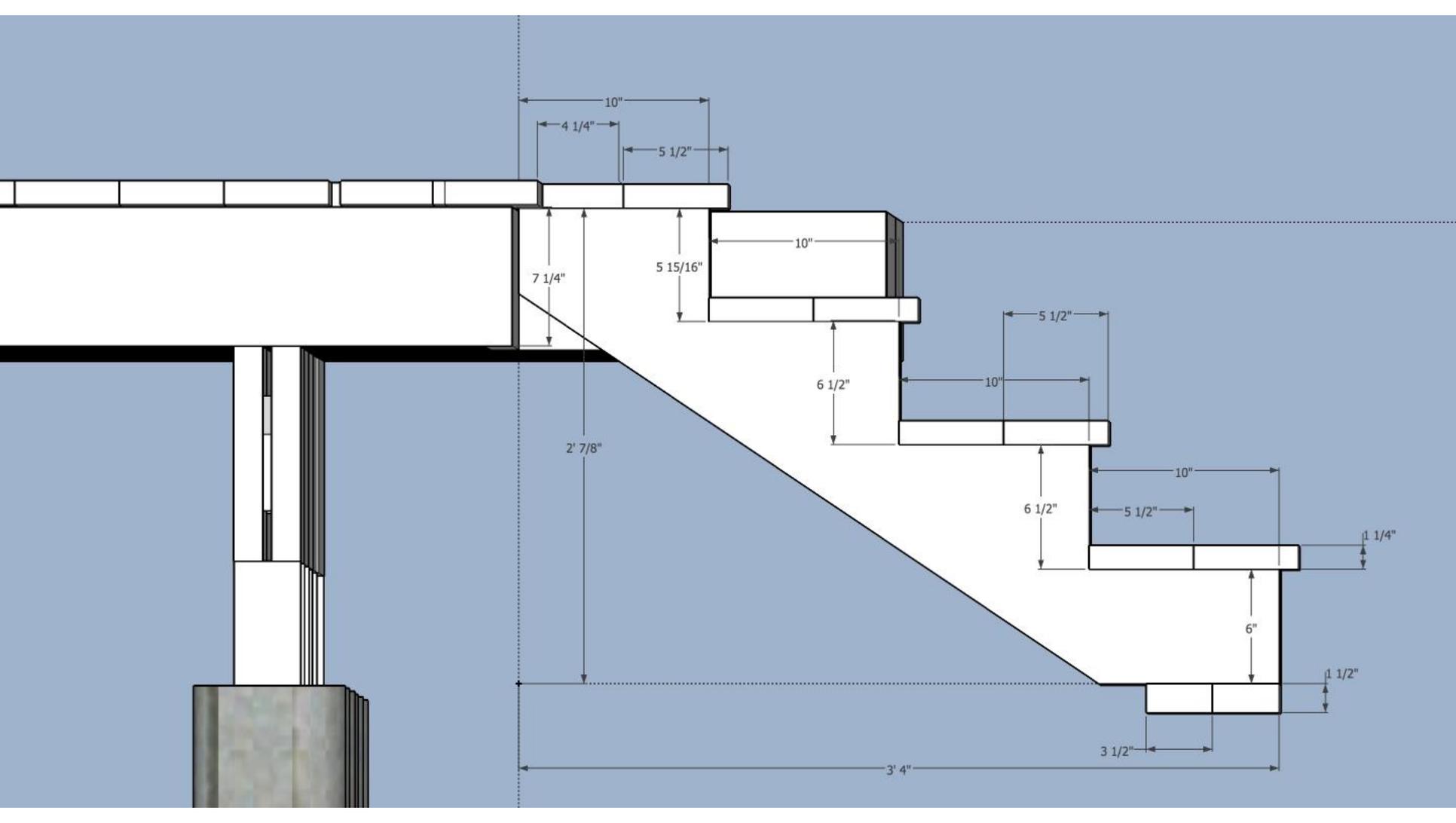


4. Stairs

Using 3 pre-fabricated 4-Step Stringers designed for steps that are 3'5" wide.

- **Attached to rim joist using joist hangers and fastened according to manufacturer specifications.**
- **Steps composed of 5/4x 6 decking boards fastened using 2 1/2" exterior rated screws.**



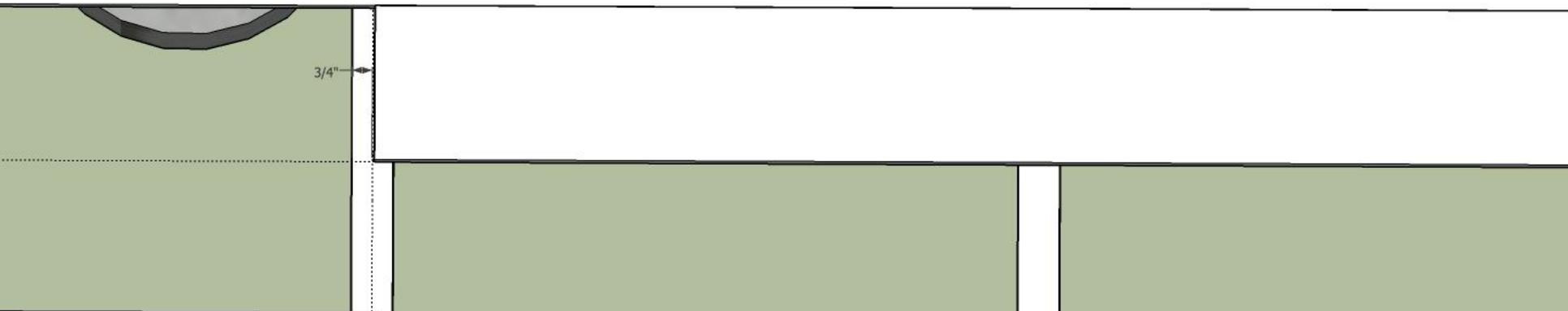
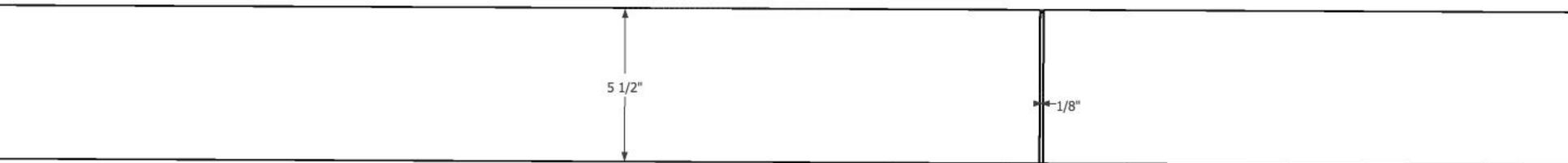


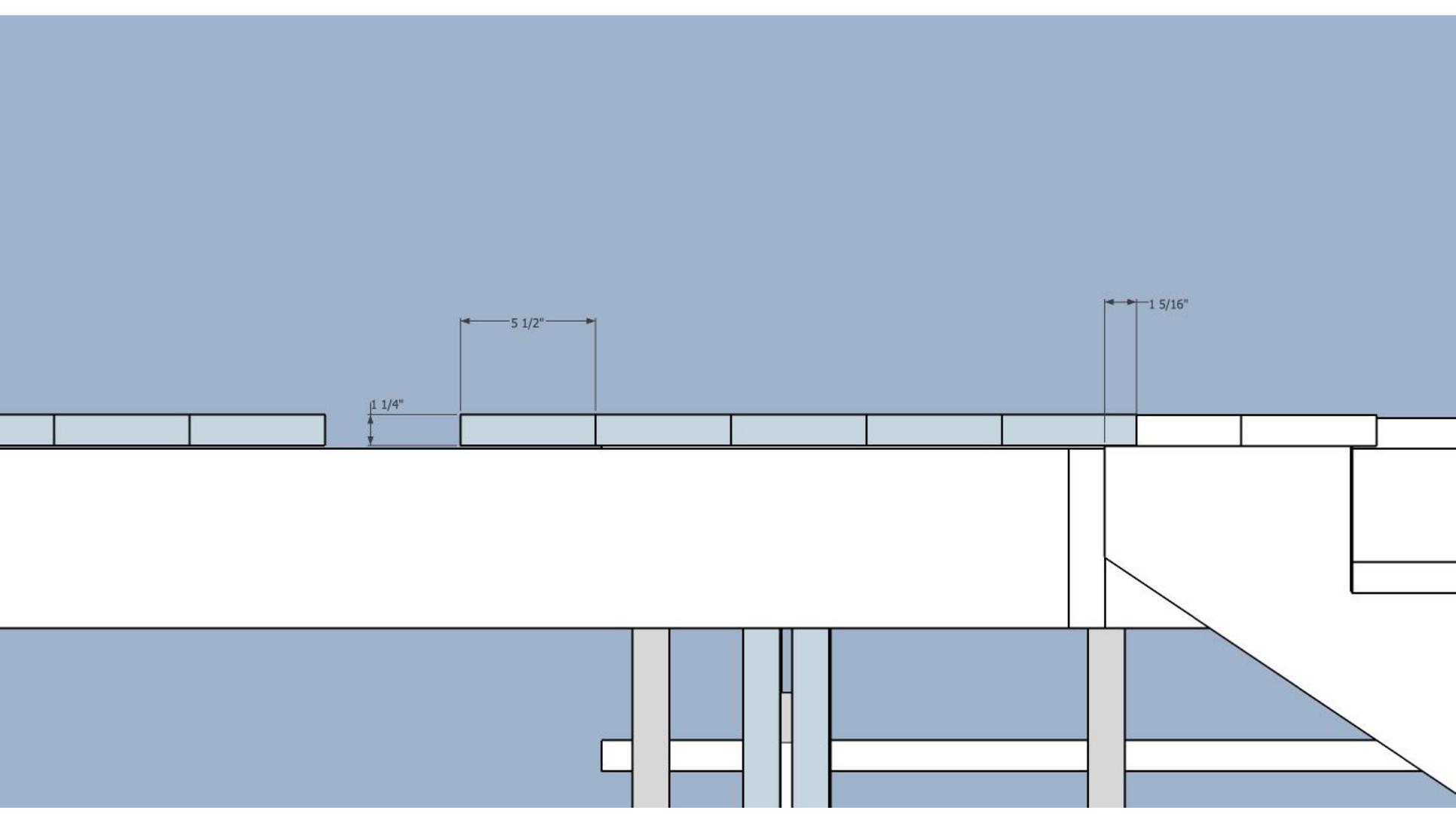


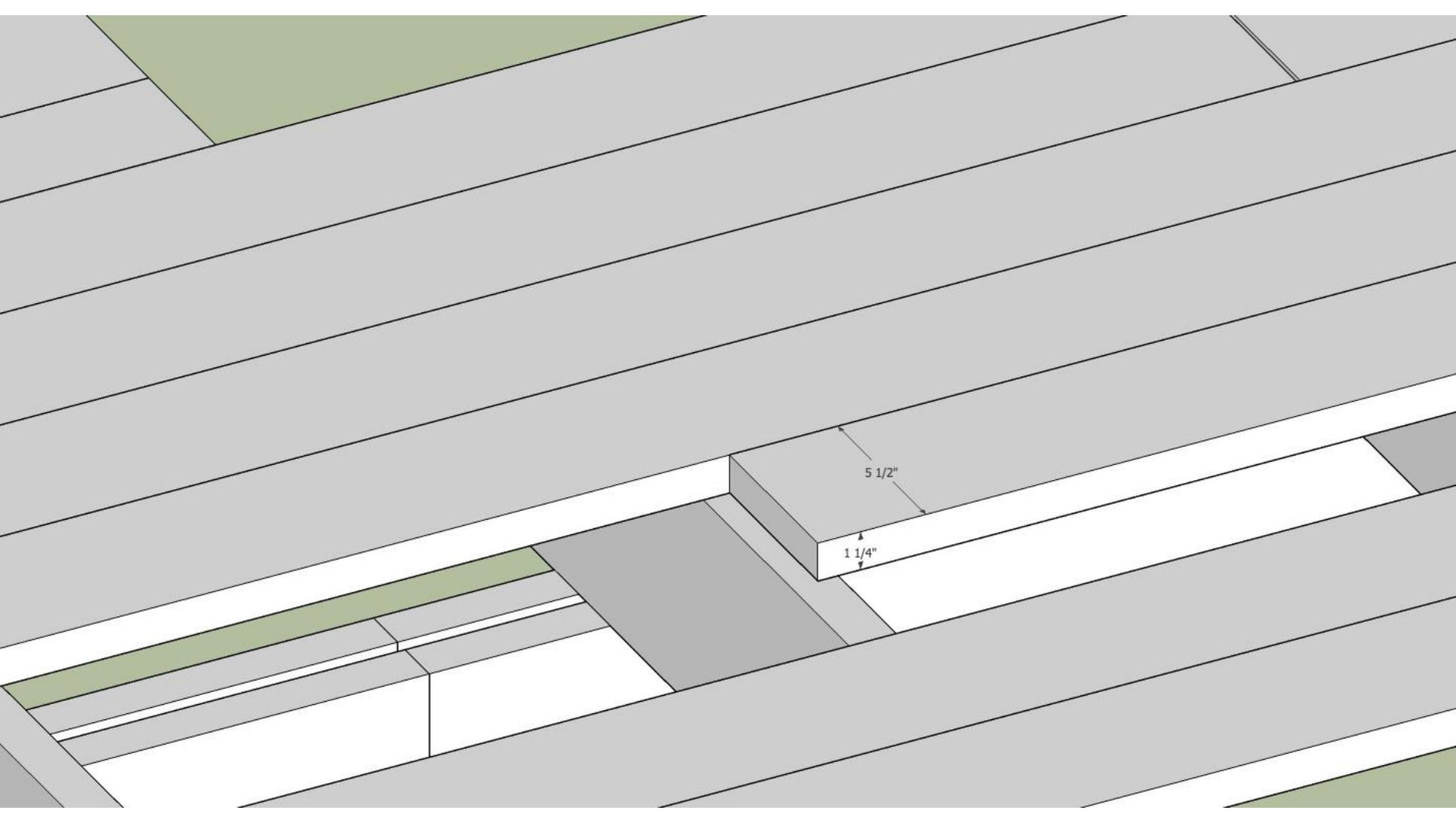
5. Decking

Using 5/4 x 6 pressure treated southern pine decking fastened using 2 1/2" long exterior rated decking screws.

- **Decking fastened every 24"**
- **Butt joints are spaced 1/8" and break over joists.**
- **Decking will over hang rim joist by 1 1/4"**









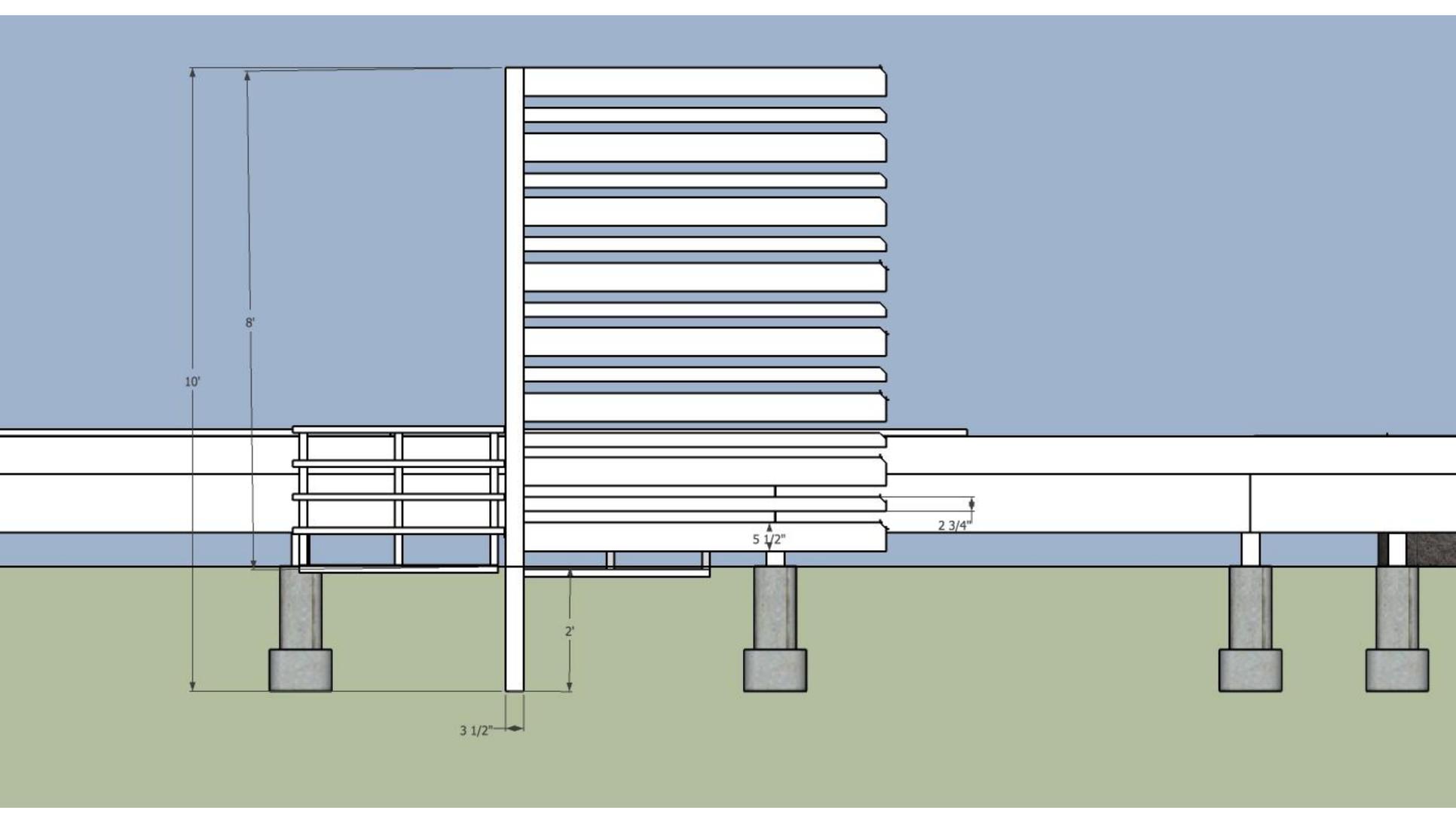
5. Fencing

Desire to extending decking to fencing crossing over 2' setback and also desiring to extend fence height from 6' to 8'.

→ **4x4 Fence Posts and 6x6 posts for gate posts.**

Fence Posts will be sunk 24" below grade on top of compacted drain gravel and backfilled with 75lbs of concrete.

→ **Pickets will be set Horizontally fastened using exterior rated screws.**





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Thank You.