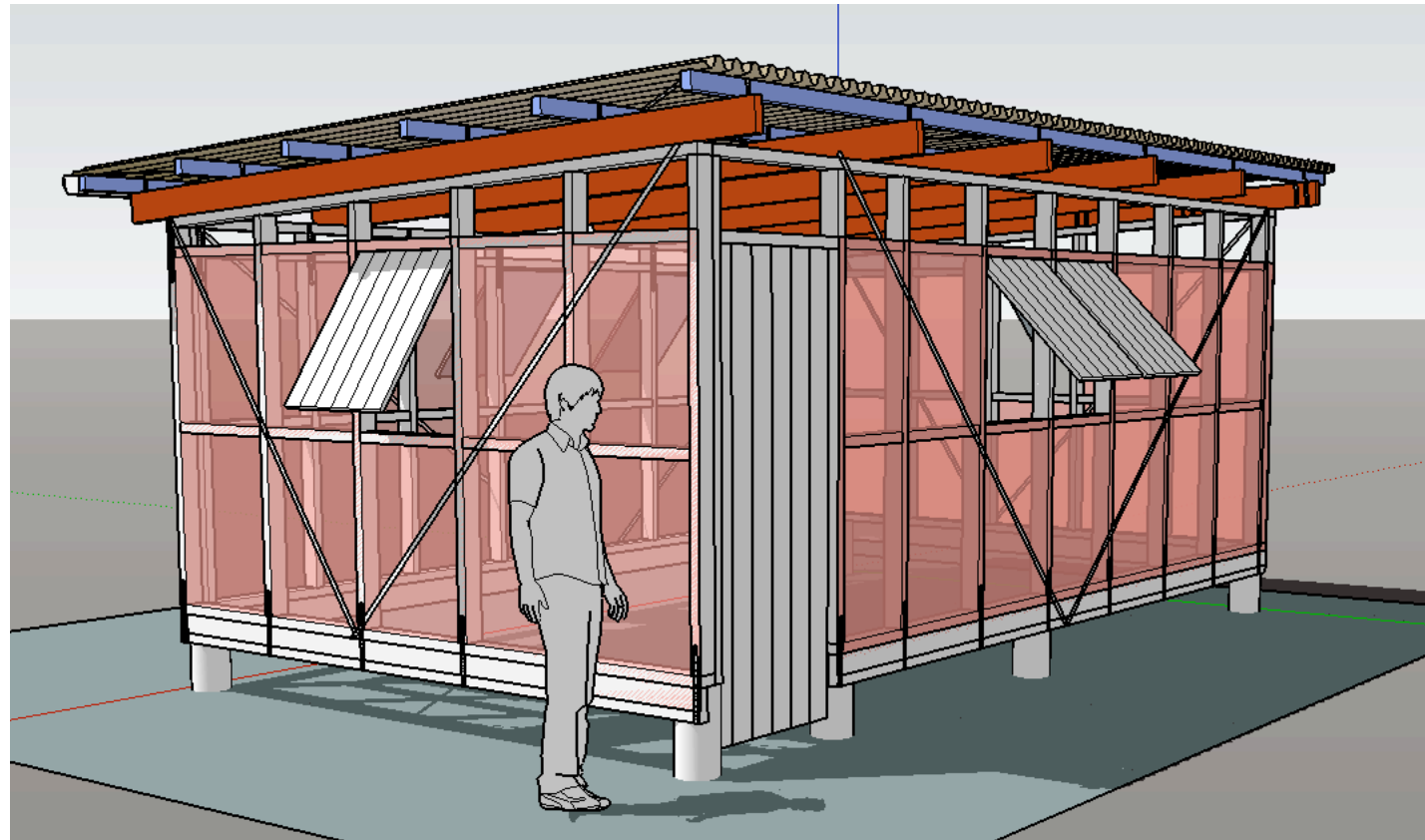


Construction Manual

Transitional Shelter

Prepared by Habitat for Humanity Fiji for the Fiji Shelter Cluster
May 2013



Pre-construction Preparation

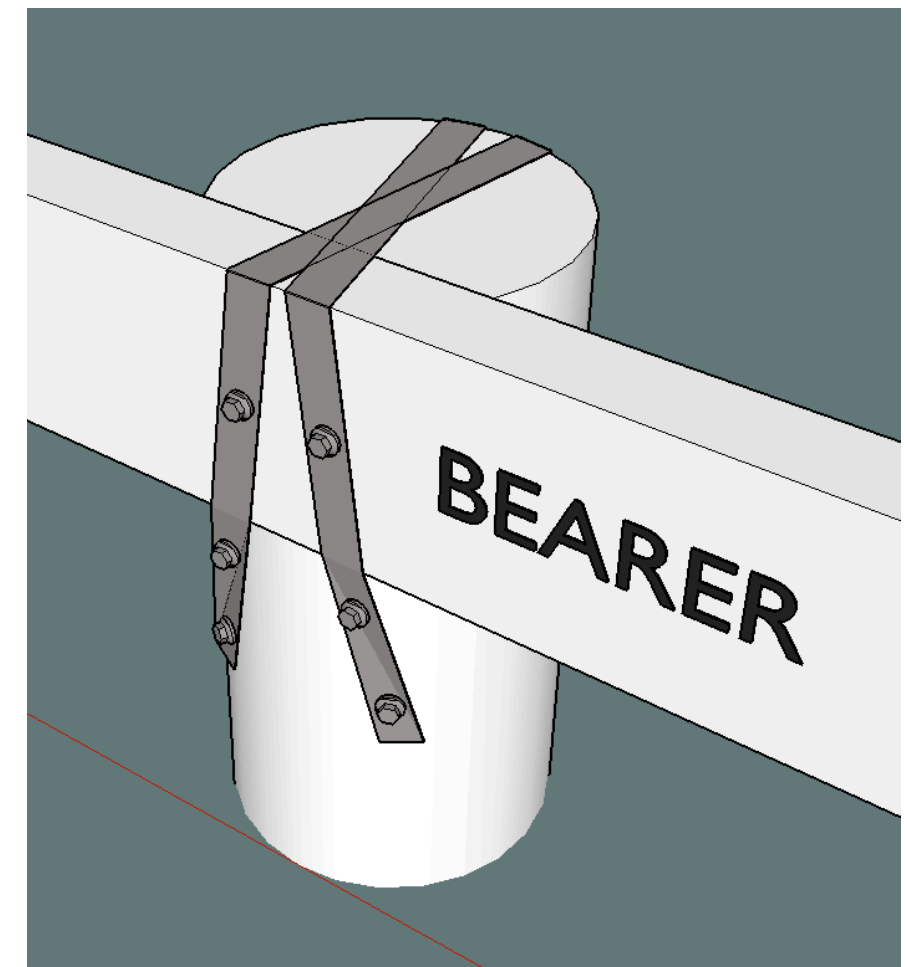
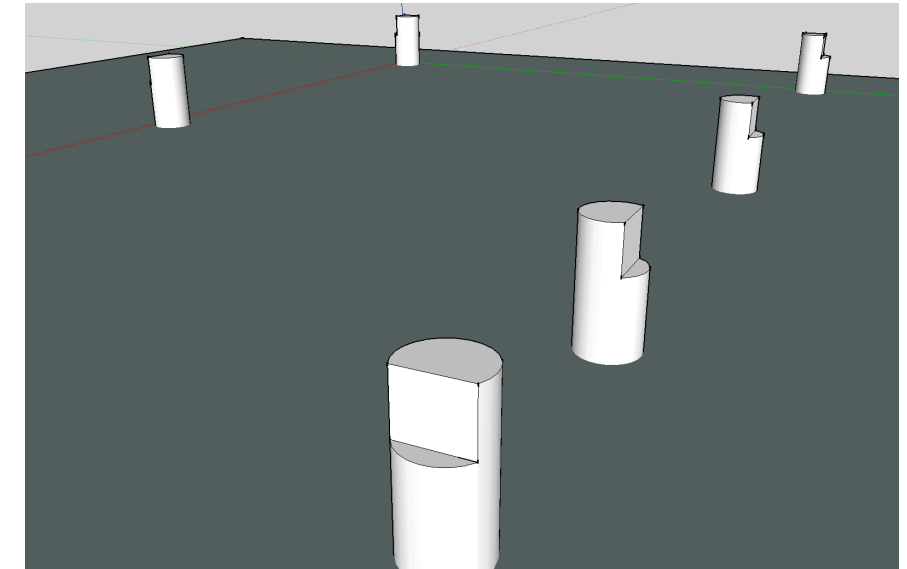
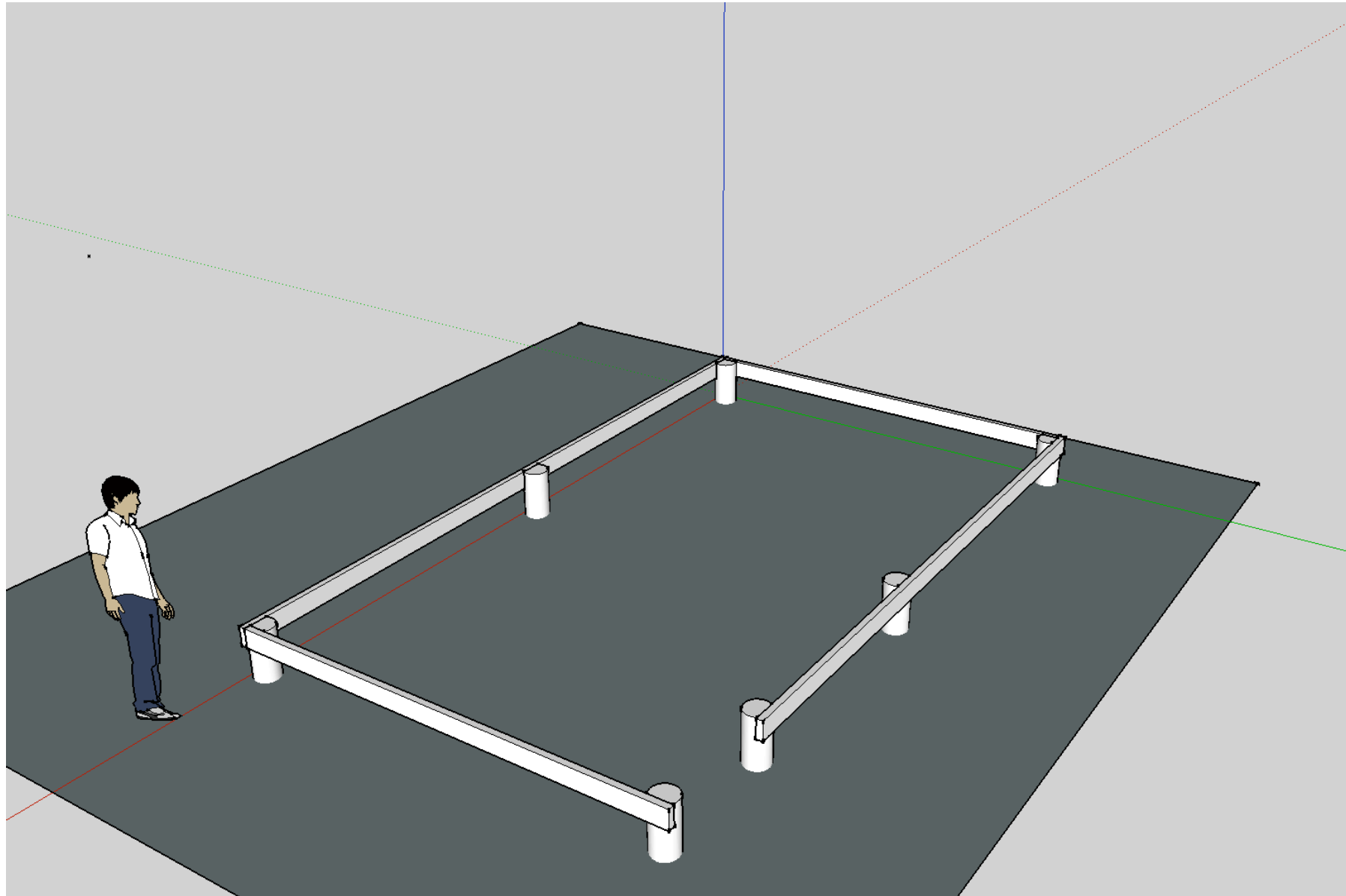
This structure is designed around a construction time of 3 days.

1. All window and door panels to be fabricated offsite prior to commencement of house construction.
2. Site is to be profiled and all holes to be dug by the home-partner prior to commencement.
3. Sand and gravel to be delivered to site before Day 1.
4. Locate water for mixing concrete before Day 1.

Framing list

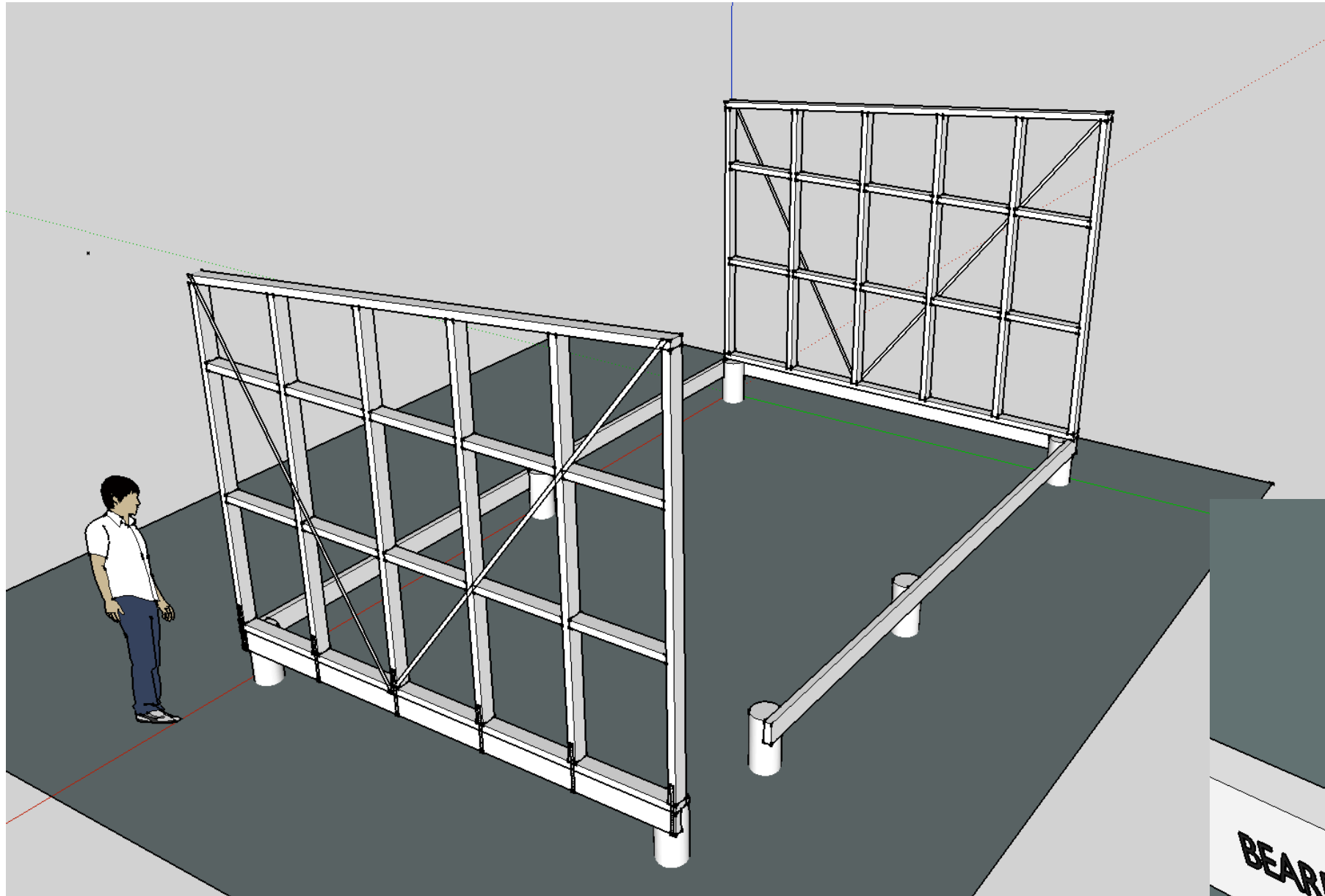
| Member | Size | Remarks |
|--------------|-------------------------|---|
| Pine Post | 1m x 150mm dia | Embed 600mm in ground in 400 x 400 hole. Spike posts and fill with concrete. Notch posts for bearer seat. |
| Bearers | 150 x 50 | Nailed & Strapped to post. |
| Bottom plate | 100 x 50 | Nailed to top of bearer. |
| Wall studs | 100 x 50 @ 800crs | Nailed & strapped to top plate and bearer |
| Noggins | 100 x 50 @ 800crs | |
| Top plate | 100 x 50 | Strapped to stud |
| Rafter | 150 x 50 @ 600crs | Strapped to top plate |
| Purlin | 75 x 50 @ 800crs | On edge. Strapped to top plate with Pryda strapping |
| Facia | 200 x 25 | Attached to gutter end only |
| Strapping | Galv. Pryda strapping | |
| Roof | Galv. CGI roofing | Nailed to purlins with galv twisted roofing nails |
| Flashing | Galv. Sheet metal | |
| Gutter | Typhoon gutter w/ clips | |
| Canvas | 2m x 17m | |
| Downpipe | 75mm dia PVC | |

DAY 1

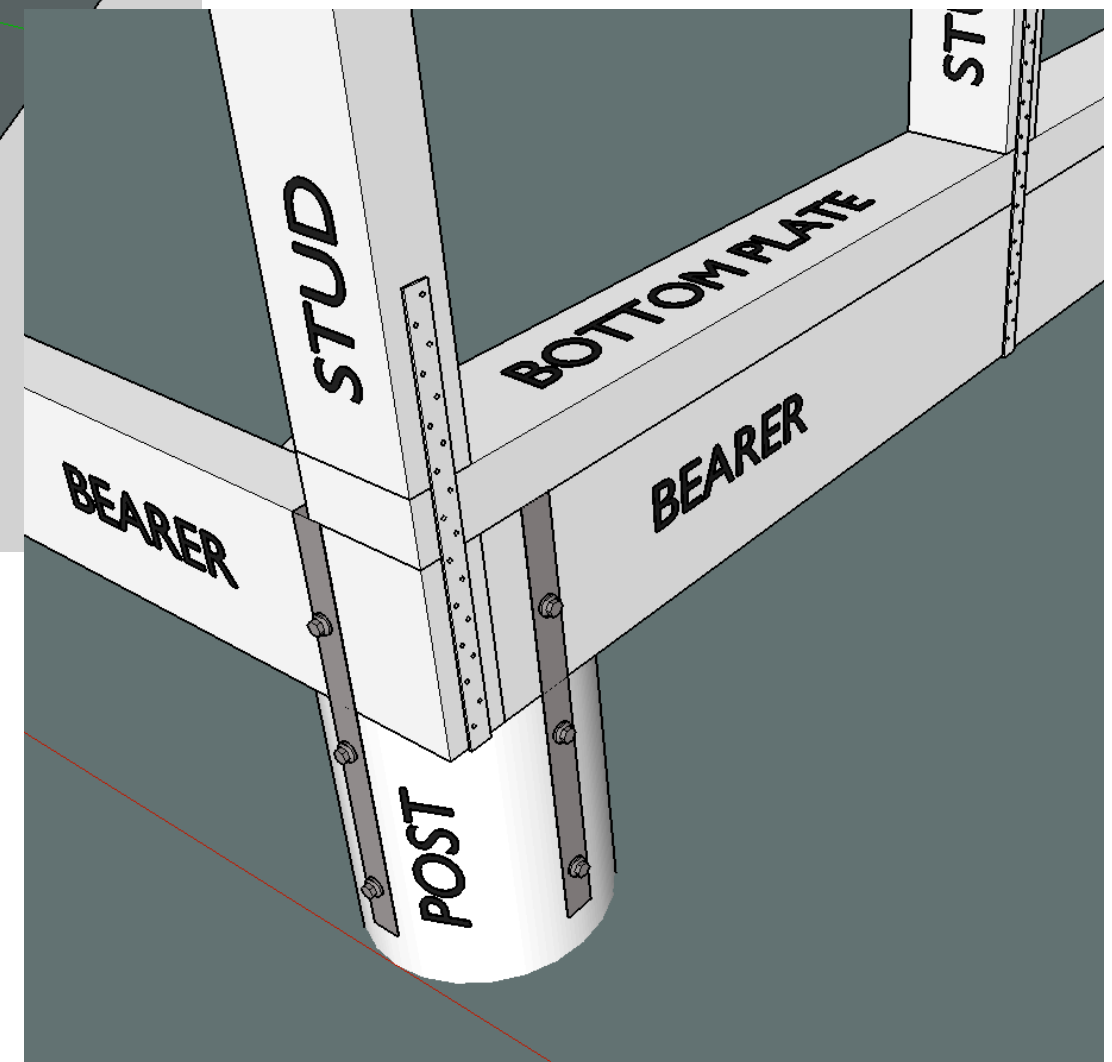


1. Posts to be spiked and set in concrete footing 600 below ground level.
2. 150x50 bearer to be nailed and strapped to post. Use 3 roofing screws to each strapping leg.
3. Posts to be notched for bearer seat.

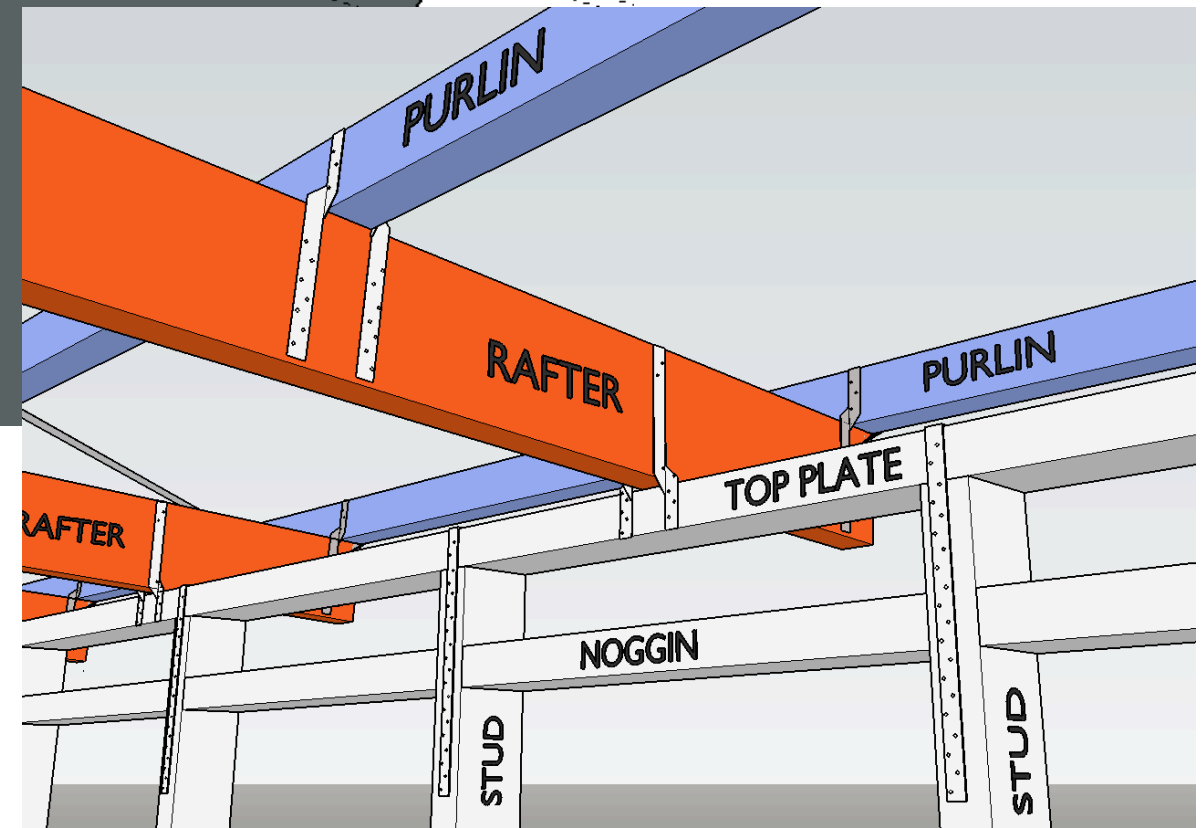
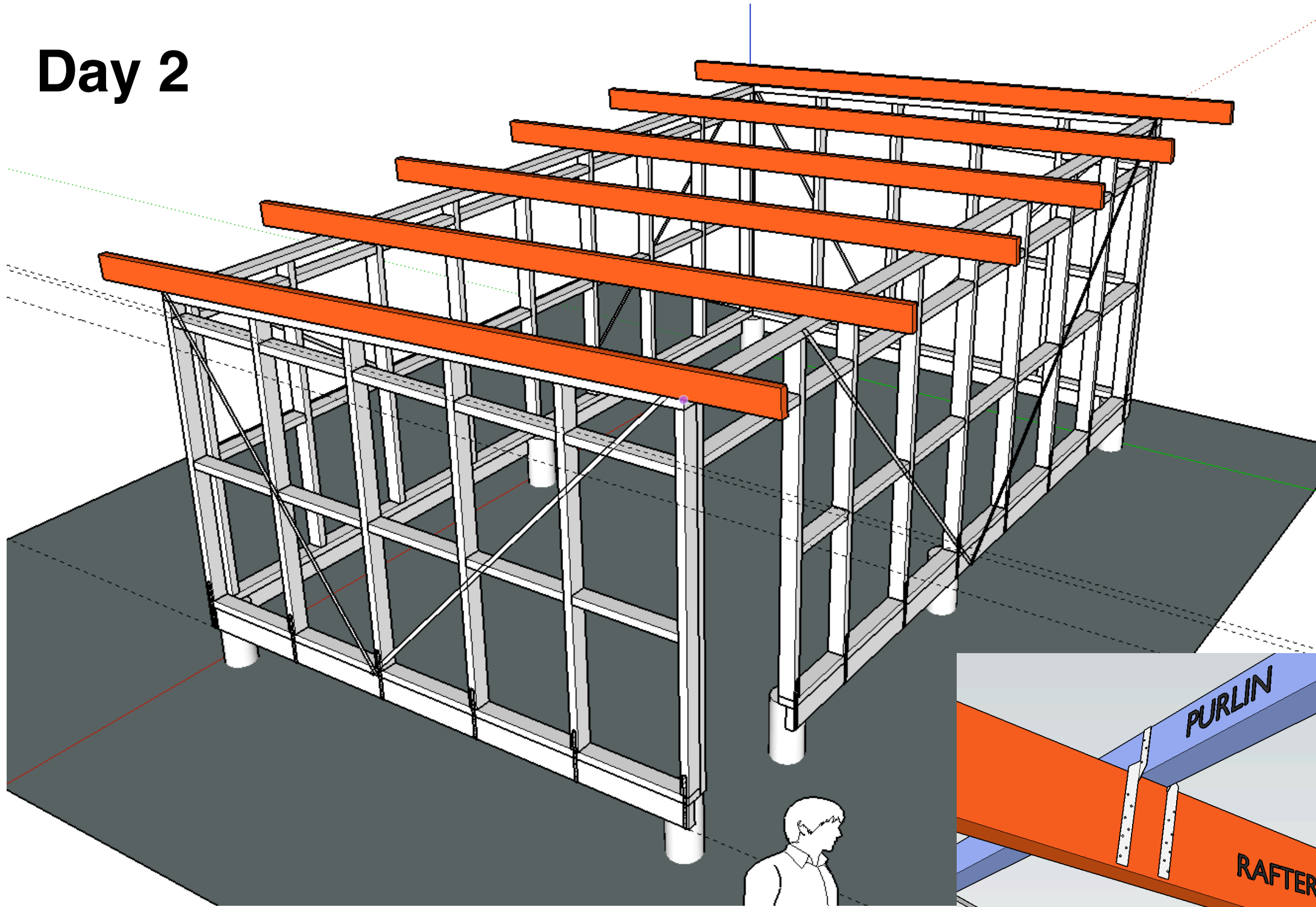
DAY 1



1. Fabricate and erect end wall panels. Brace in place while fabrication of side panels takes place.
2. Make all necessary strapping as required.
3. Strap wall panels to the underside of bearers at all stud intervals.

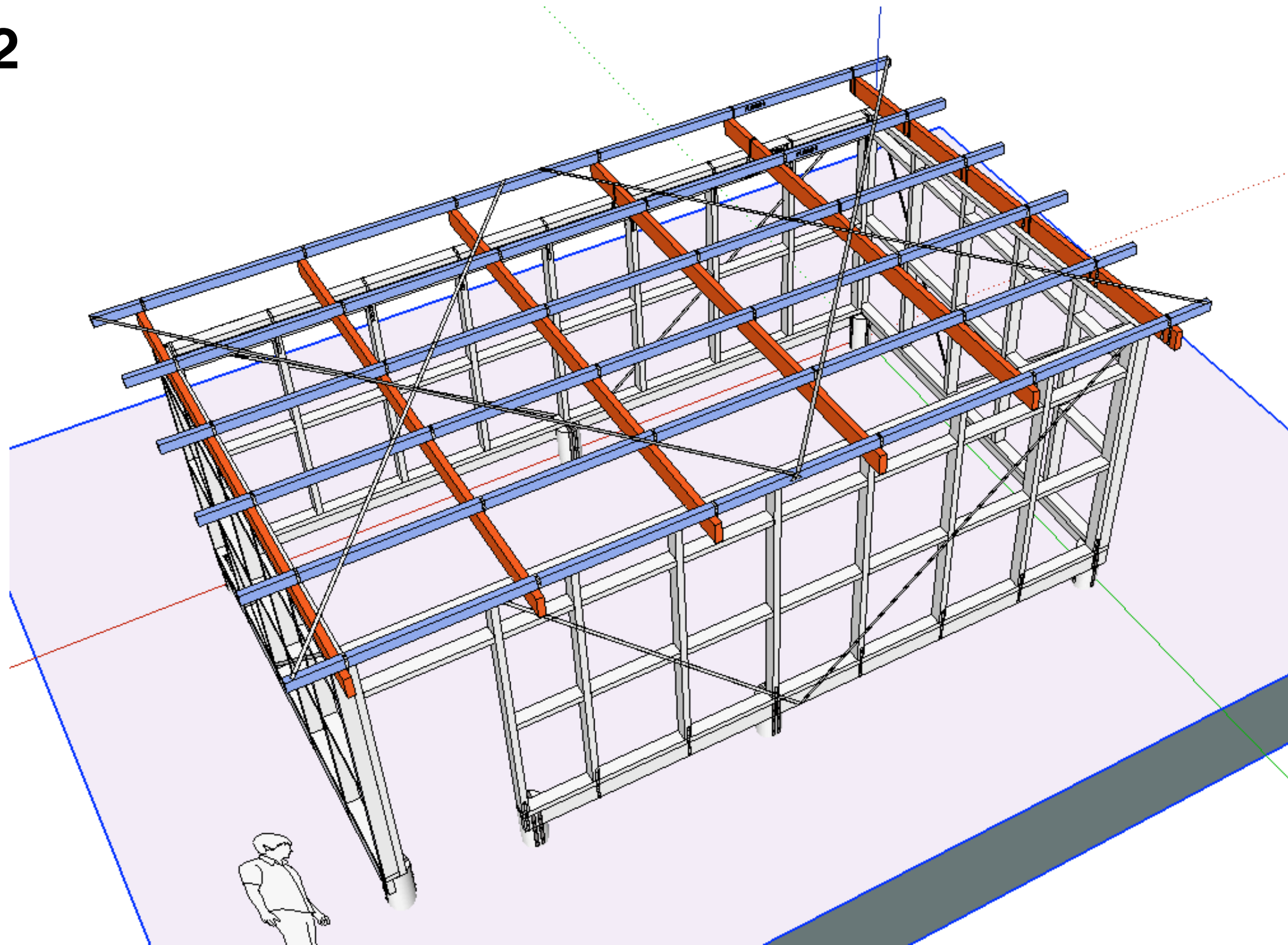


Day 2



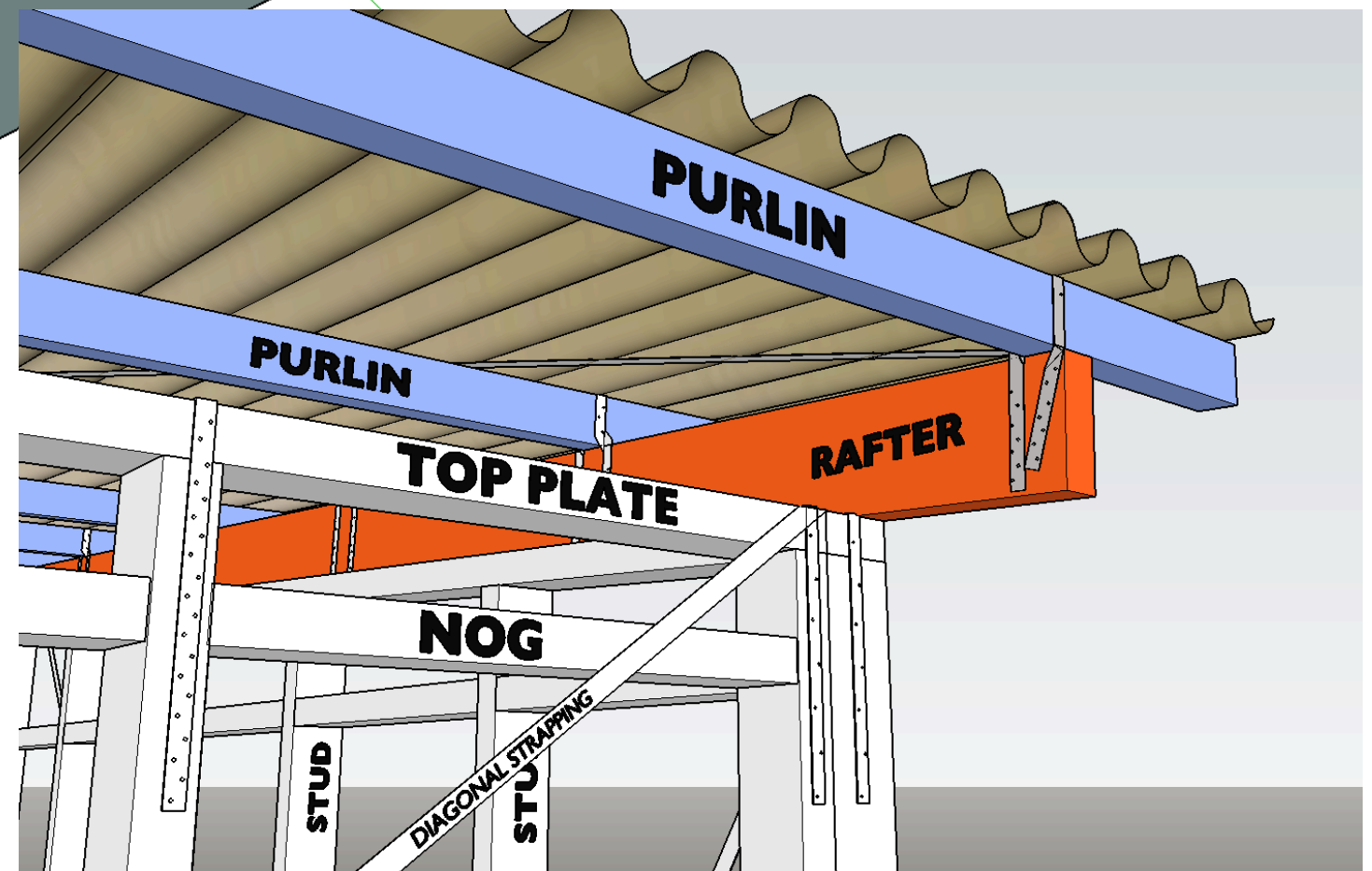
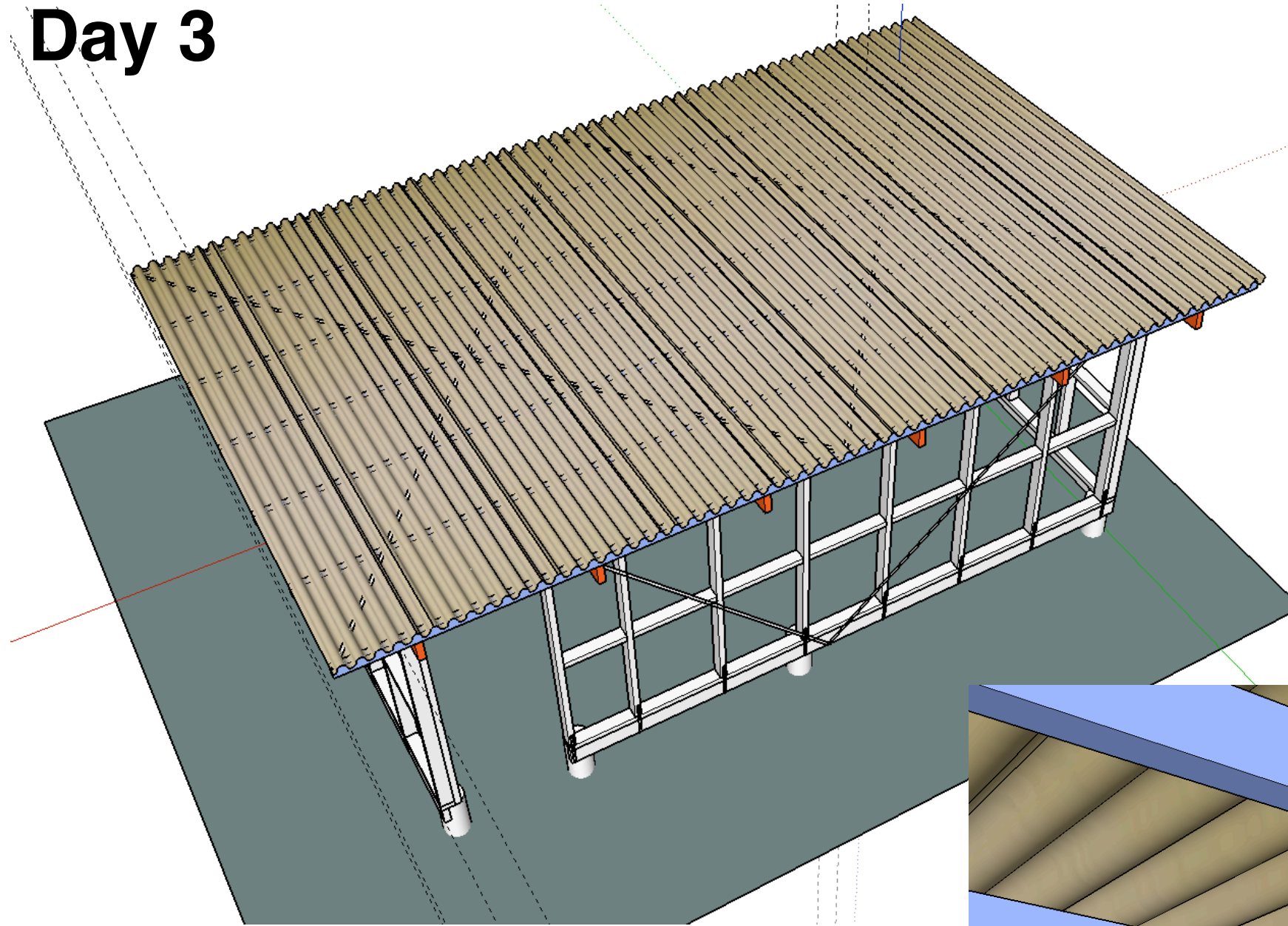
1. Fabricate and erect side wall panels.
2. Make all necessary strapping as required.

Day 2



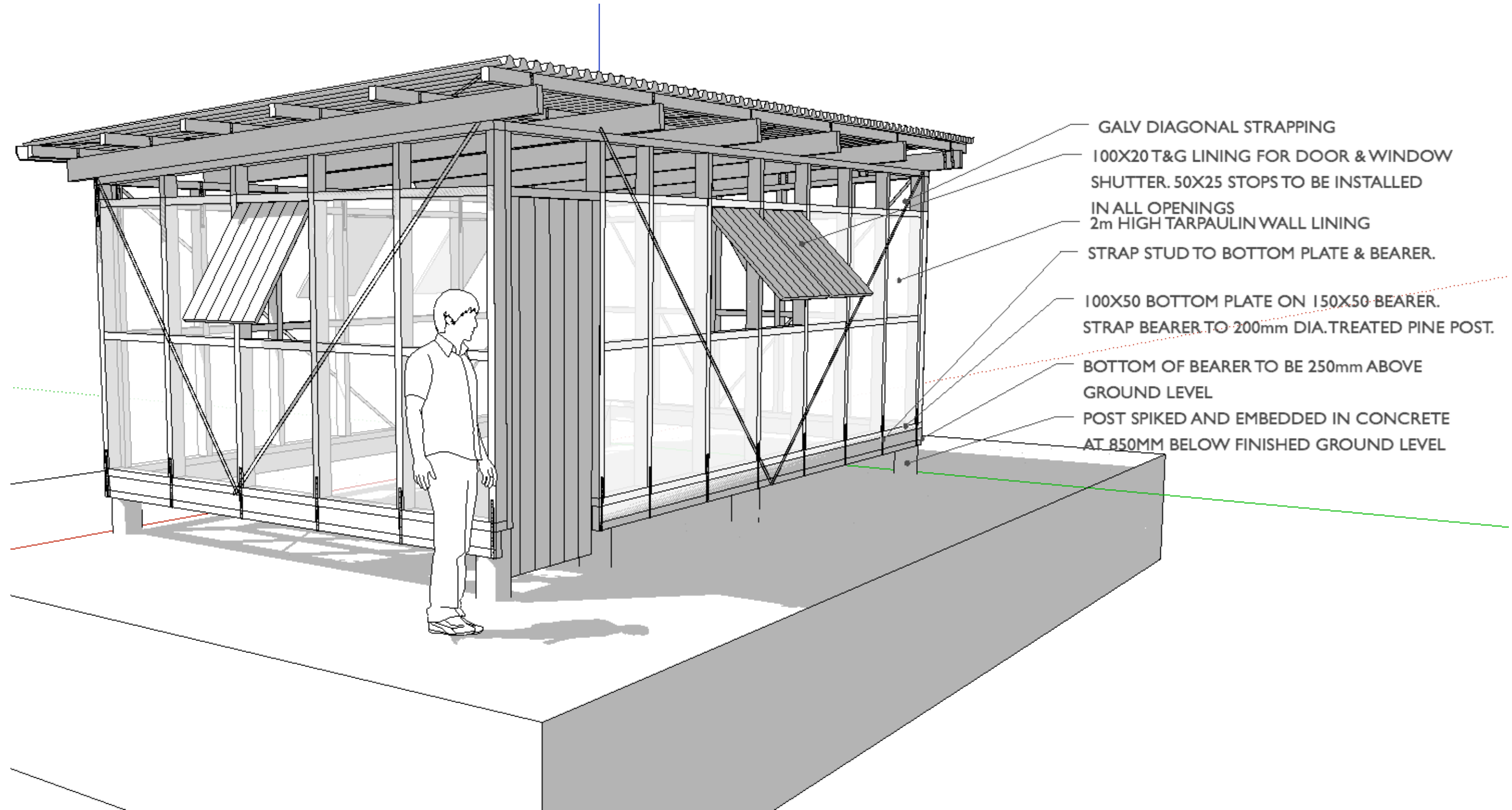
1. Strap all rafters to top plate
2. Strap all purlins to rafters
3. Make all necessary strapping as required.

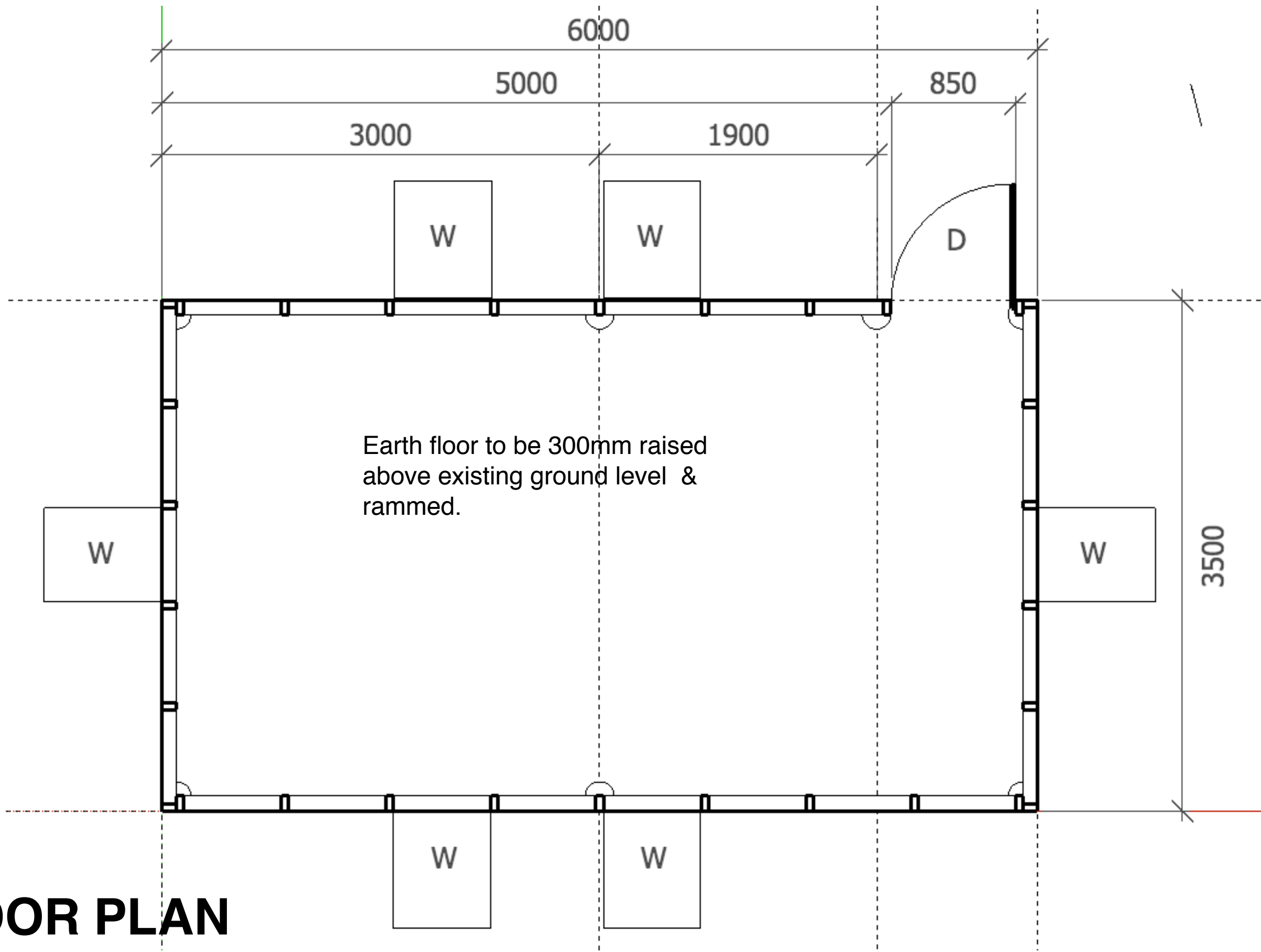
Day 3



1. Secure CGI roofing with cyclone twisted nails with neoprene washers on every crest.
2. Install fascia board for gutter only
3. Install gutter and down pipe

Notes





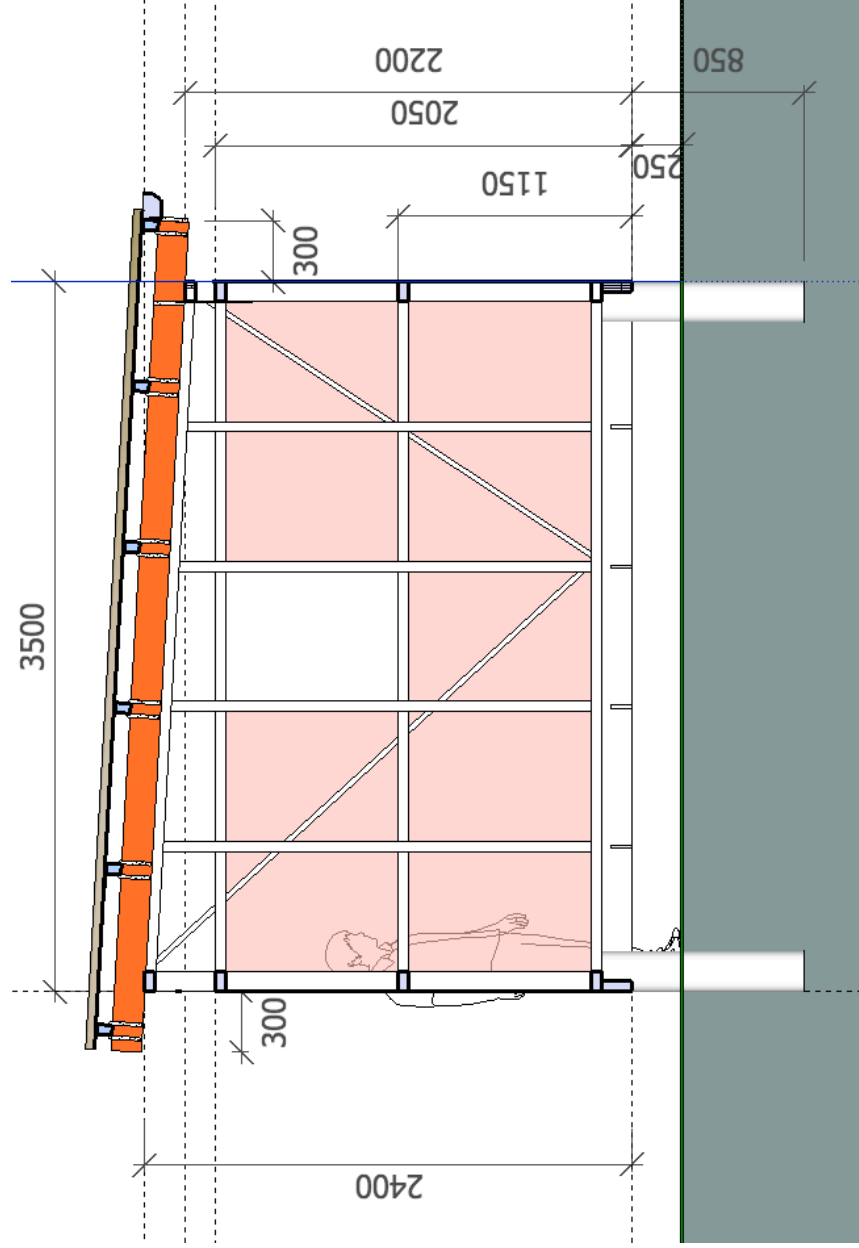
Earth floor to be 300mm raised above existing ground level & rammed.

FLOOR PLAN

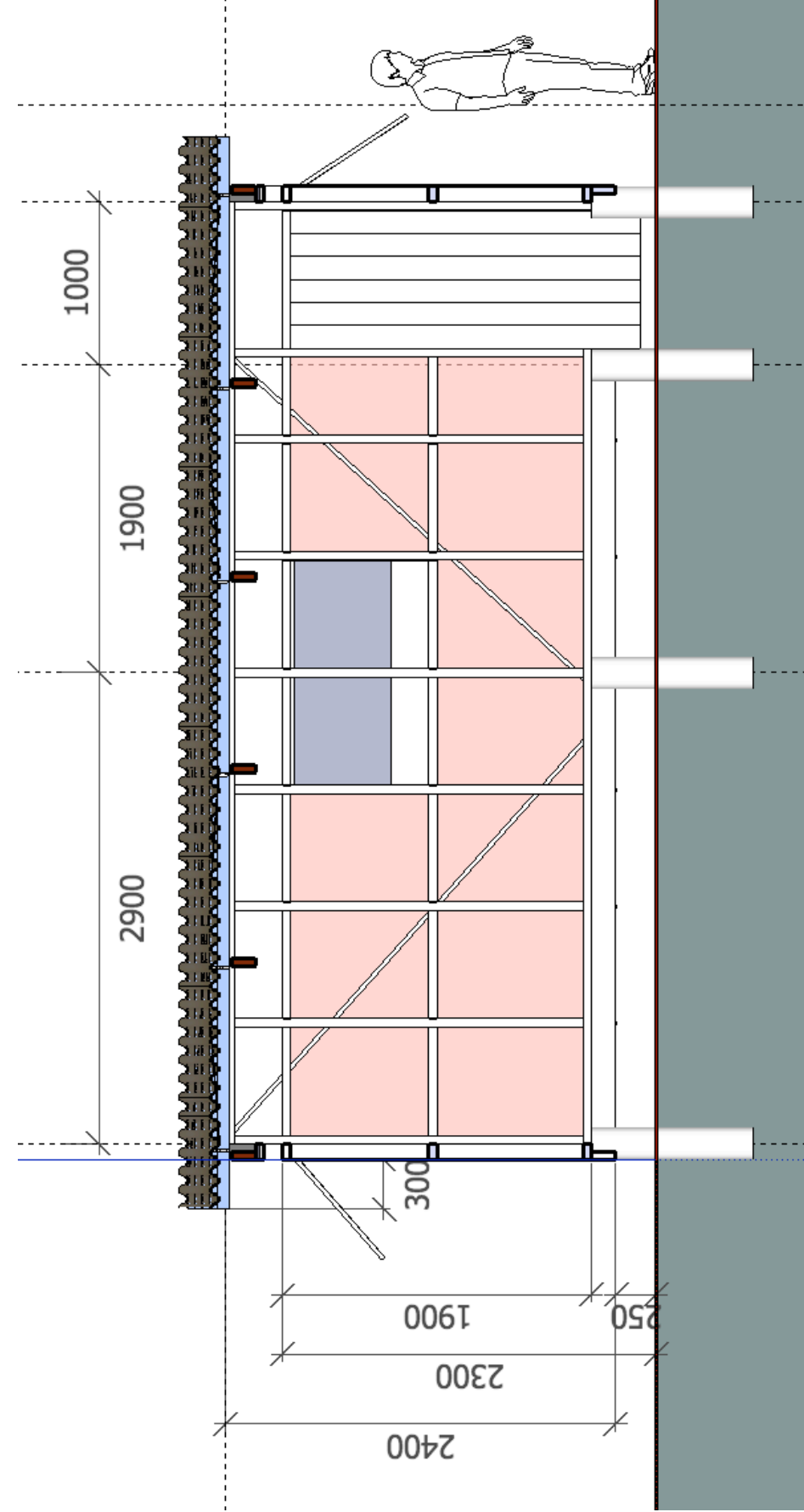
NTS

SECTIONS

NTS



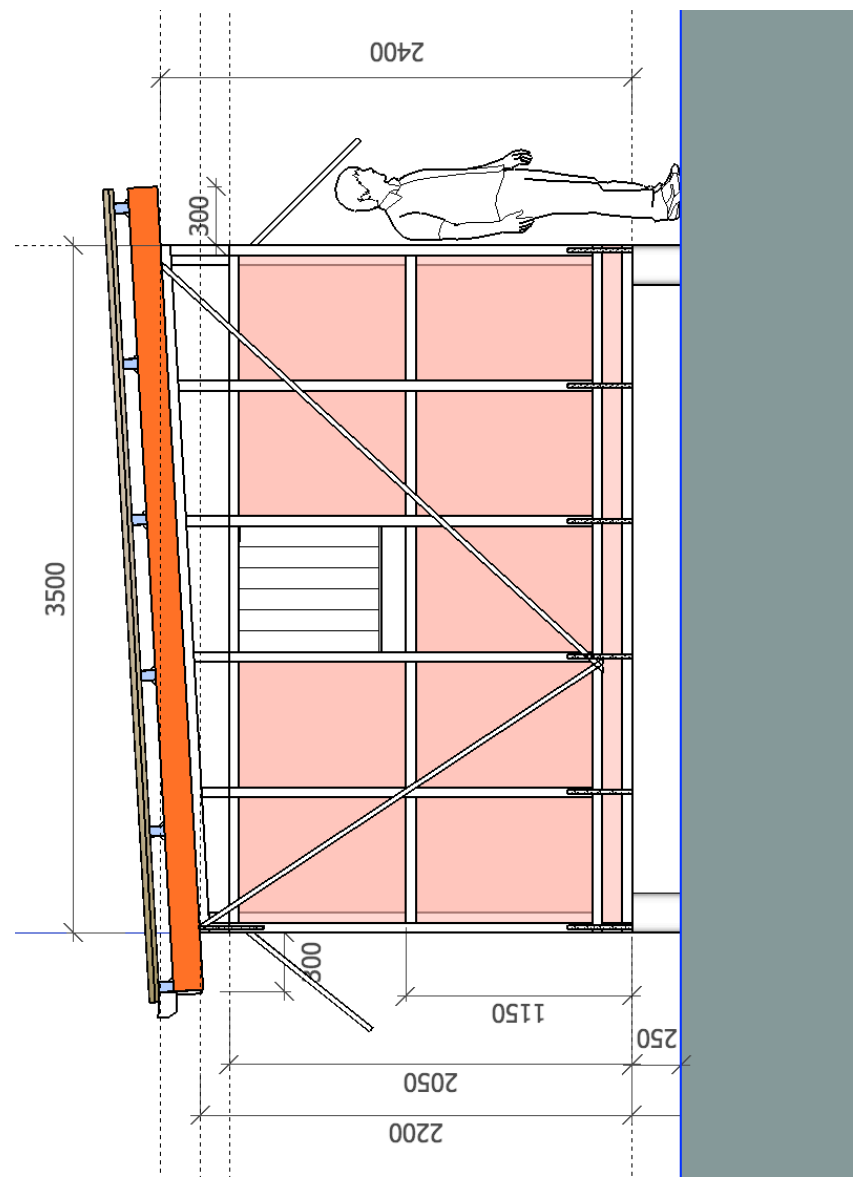
SHORT SECTION



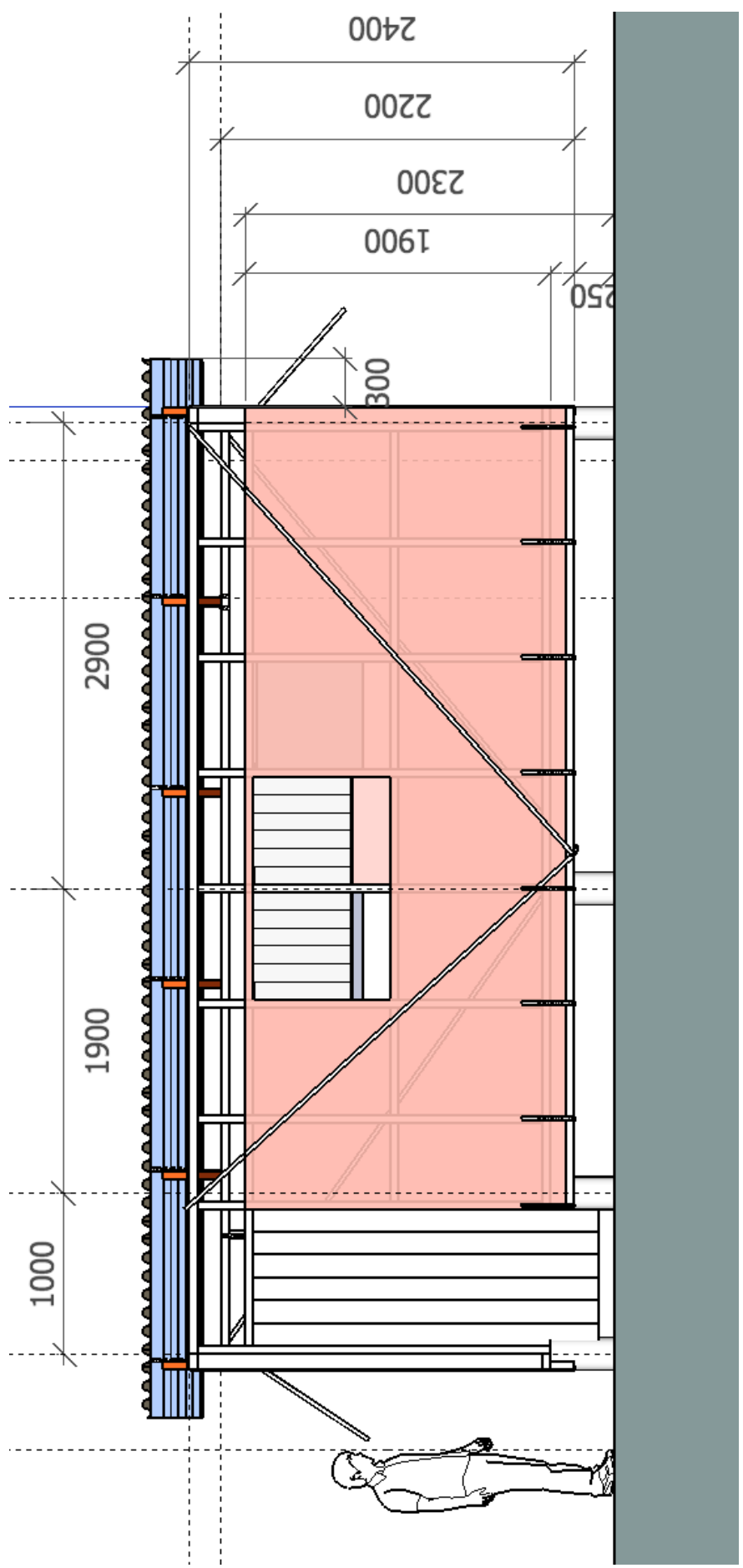
LONG SECTION

ELEVATIONS

NTS



SIDE ELEVATION



FRONT ELEVATION