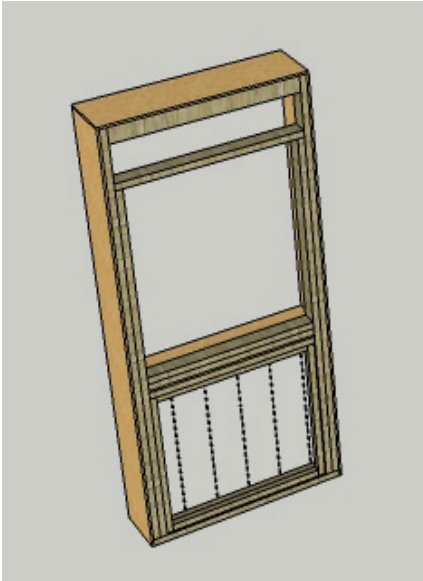




Microhouse v1 uses 3 of these modules

Window Module Materials List

1 sheet of 1/2" plywood

1 2x2 @ 8'

7 2x4 @ 8'

1 2x6 @ 8'

6 1/2" rebar @ 3'

approx. 60 3" screws (2 1/2" works)

approx. 30 1 1/2" screws



Microhouse v1 uses 1 of these modules

Door Partition Module Materials List

2 sheets of 1/2" plywood

9 2x4 @ 8'

approx. 40 3" screws (2 1/2" works)

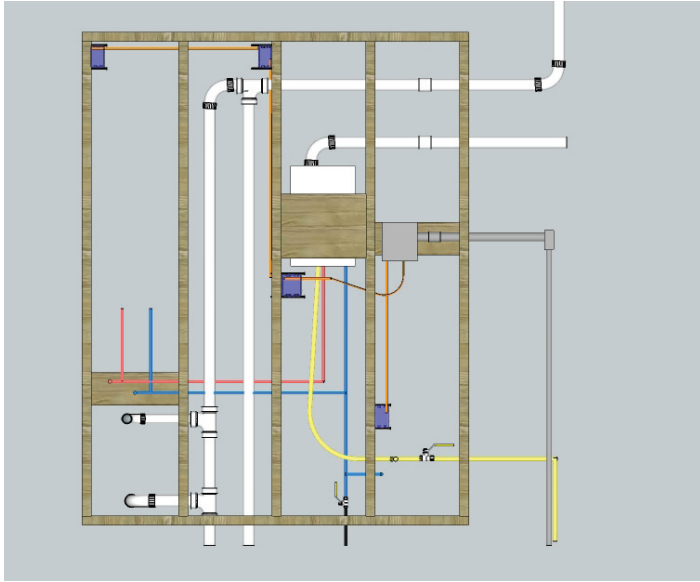
approx. 75 1 1/2" screws

1 6' pigtail

1 single-gang receptacle box

1 receptacle

1 switchplate cover



Microhouse v1 uses 1 of these modules

Elec./Plumb. Partition Module Materials List

8 2x6 @ 8'

approx. 36 3" screws (2 1/2" works)

approx. 80 1 1/2" screws

4 single-gang elec. box

25' 12-2 romex

1 1" PVC conduit @ 10'

1 pull elbow 1" PVC conduit

1 bag wire-nuts

1 roll electrical tape

4 receptacles

1 small circuit box (70A or similar)

2 GFCI 20A circuits

2 1/2" PEX blue @ 10'

2 1/2" PEX red @ 10'

3 1/2" PEX slip-fit 90s

4 1/2" PEX slip-fit TEEs

1 1/2" barb-to-MPT polypipe connector

1 1/2" PEX FPT-to-slip connector

1 1/2" PEX slip-fit ball valve

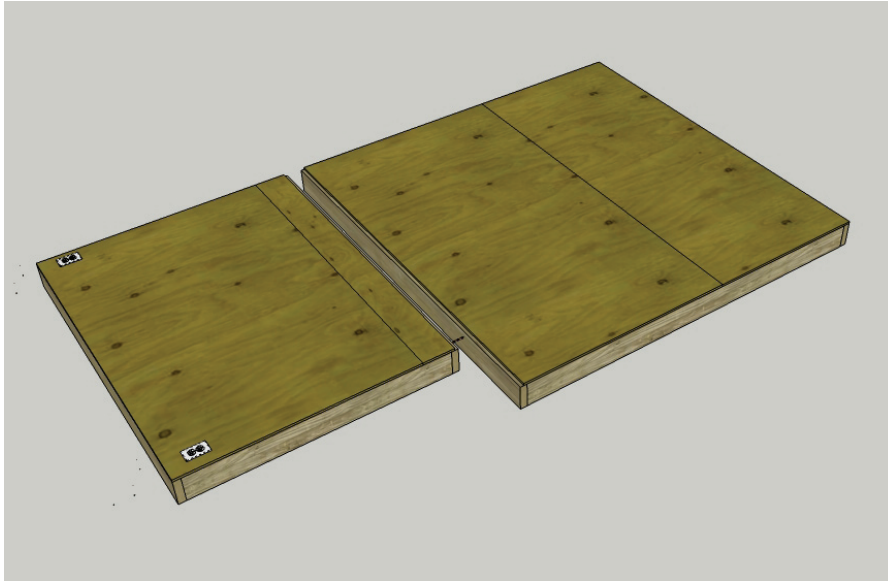
2 2" SCH 40 PVC @ 2'

3 2" PVC sanitary TEE

5 2" PVC 90

1 PVC primer, 8 oz.

1 PVC cement, 8 oz.

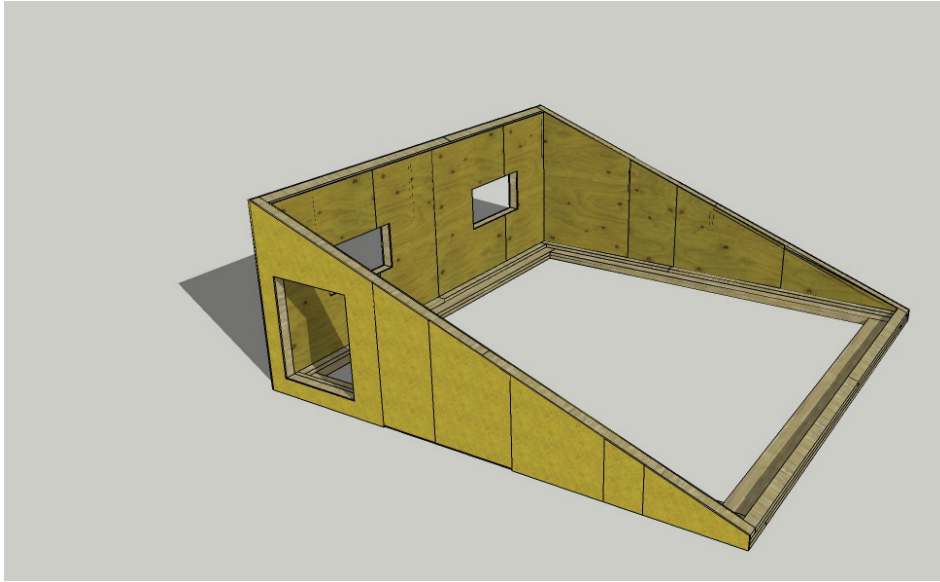


Microhouse v1 uses 1 of each of these modules

Loft Floor Modules Materials List

- 3 sheets of 1/2" plywood
- 5 2x6 @ 12'
- 6 2x6 @ 8'

- 1 6' pigtail
- 3 single-gang receptacle boxes
- 2 receptacles
- 11 ft. 12-2 romex
- 9 wire-nuts
- 2 receptacle covers
- 1 blank cover



Microhouse v1 uses one of each of these modules

Upstairs Wall Modules Materials List

5 sheets of 1/2" OSB (for exterior)
 5 sheets of 1/2" plywood (for interior)
 2 2x8 @ 10'
 4 2x8 @ 8'
 2 2x6 @ 8'
 2 2x4 @ 10'
 28 2x4 @ 8'

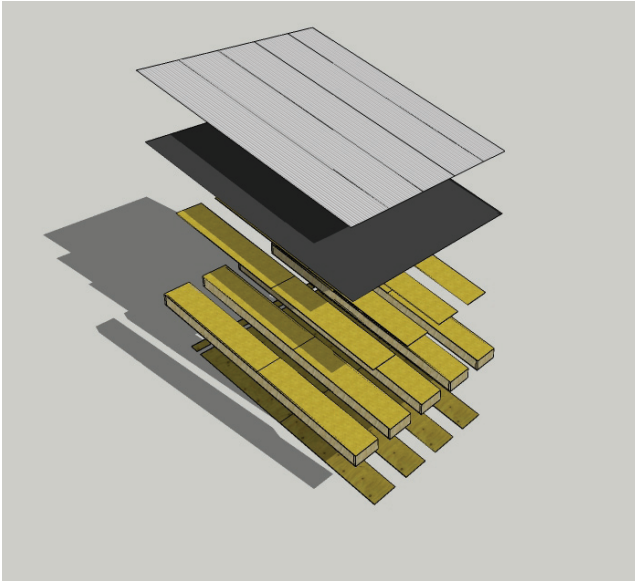
approx. 120 3" screws (2 1/2" works)
 approx. 120 1 1/2" screws

Bond Beam / Top Plate Materials List

8 2x12 @ 14'
 4 2x6 @ 8'
 4 2x4 @ 8'

12 1/2" rebar stakes @ 2' each
 approx. 160 3" screws (2 1/2" works)

52' 2x12 "sill-seal" foam gasket



Roof Module / Infill Materials List

9 sheets of 3/8" plywood
 10 sheets of 5/8" OSB
 10 2x8 @ 16'
 2 2x8 @ 8'
 4 2x4 @ 8'
 8 1x10 @ 8'

 approx. 80 3" screws (2 1/2" works)
 approx. 290 1 1/2" screws

Underlayment / Metal / Other Materials List

128 ft. roofing underlayment (2' coverage)
 500 staples 3/8"
 64 ft. drip edge
 15' gutter w/ 2 end caps
 7 gutter nails
 6-10' downspout
 (6' to barrel, 10' to ground)

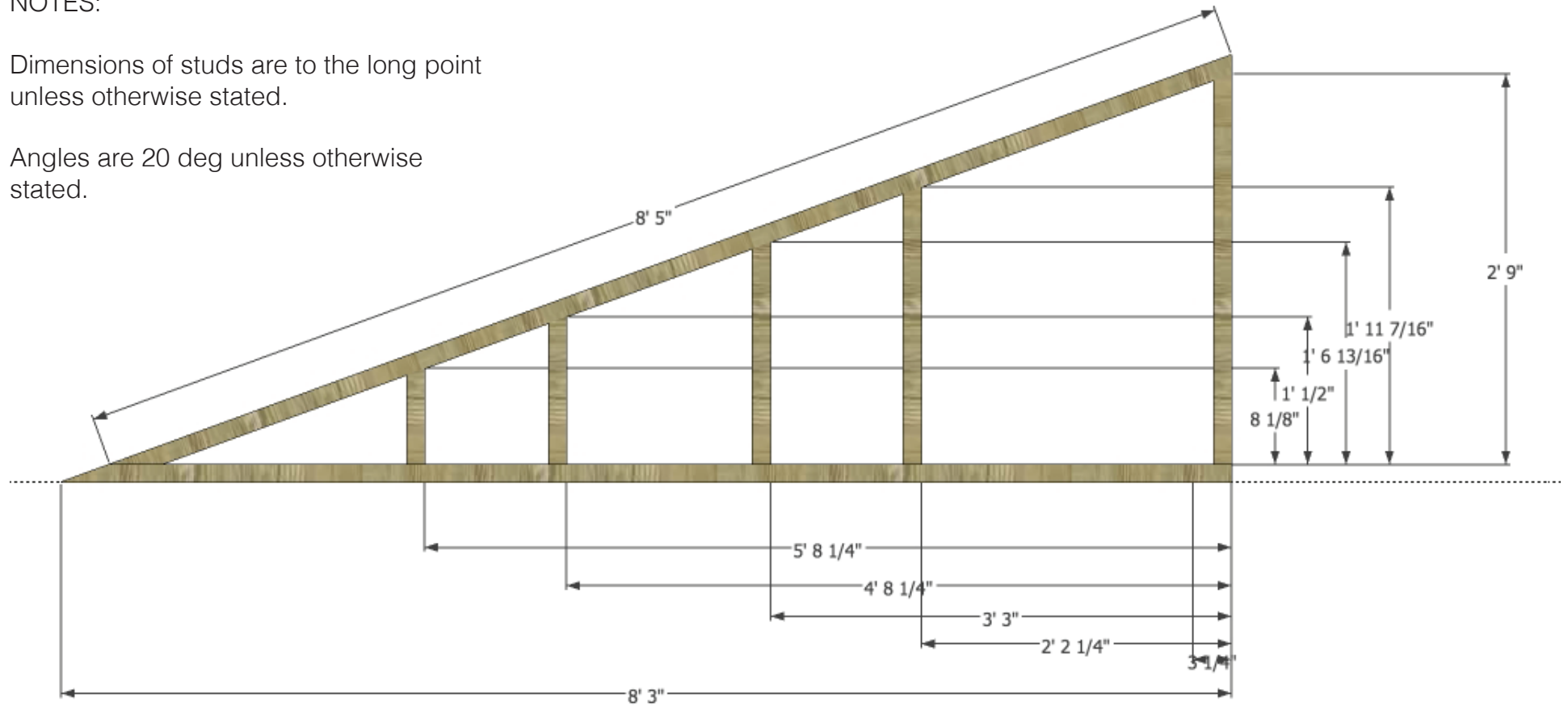
Small Angle Panel (SW corner in MH v1)

- 1 2x4 @ 10'
- 2 2x4 @ 8'
- 1 2x8 @ 8'
- 3" screws

NOTES:

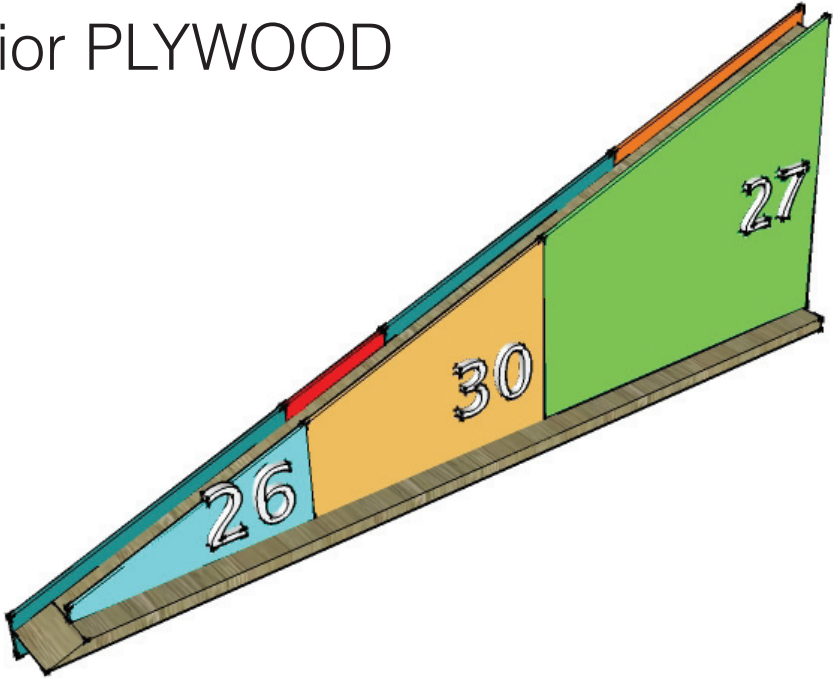
Dimensions of studs are to the long point unless otherwise stated.

Angles are 20 deg unless otherwise stated.

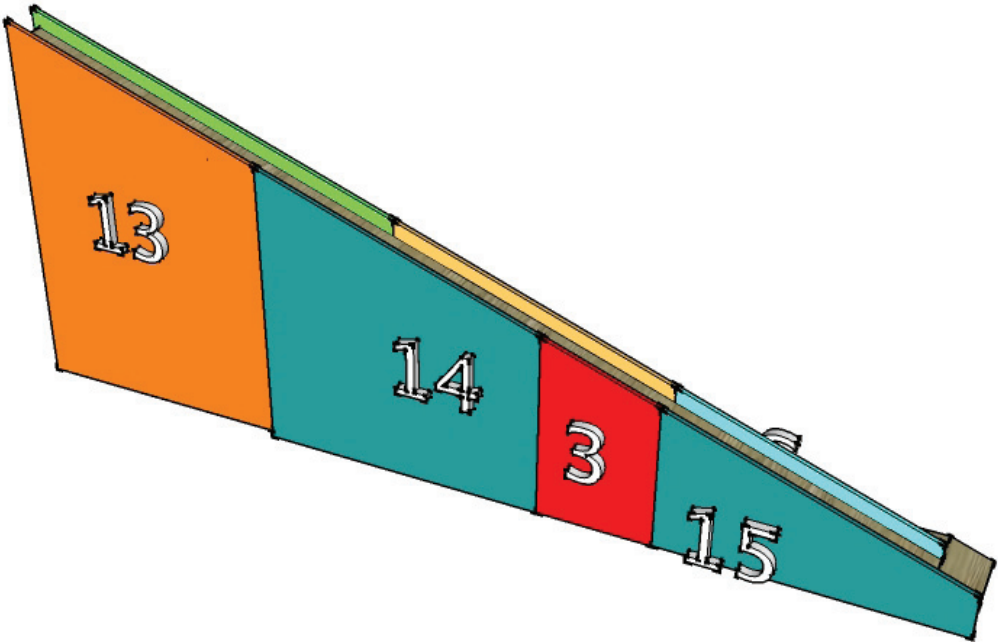


South-West

interior PLYWOOD

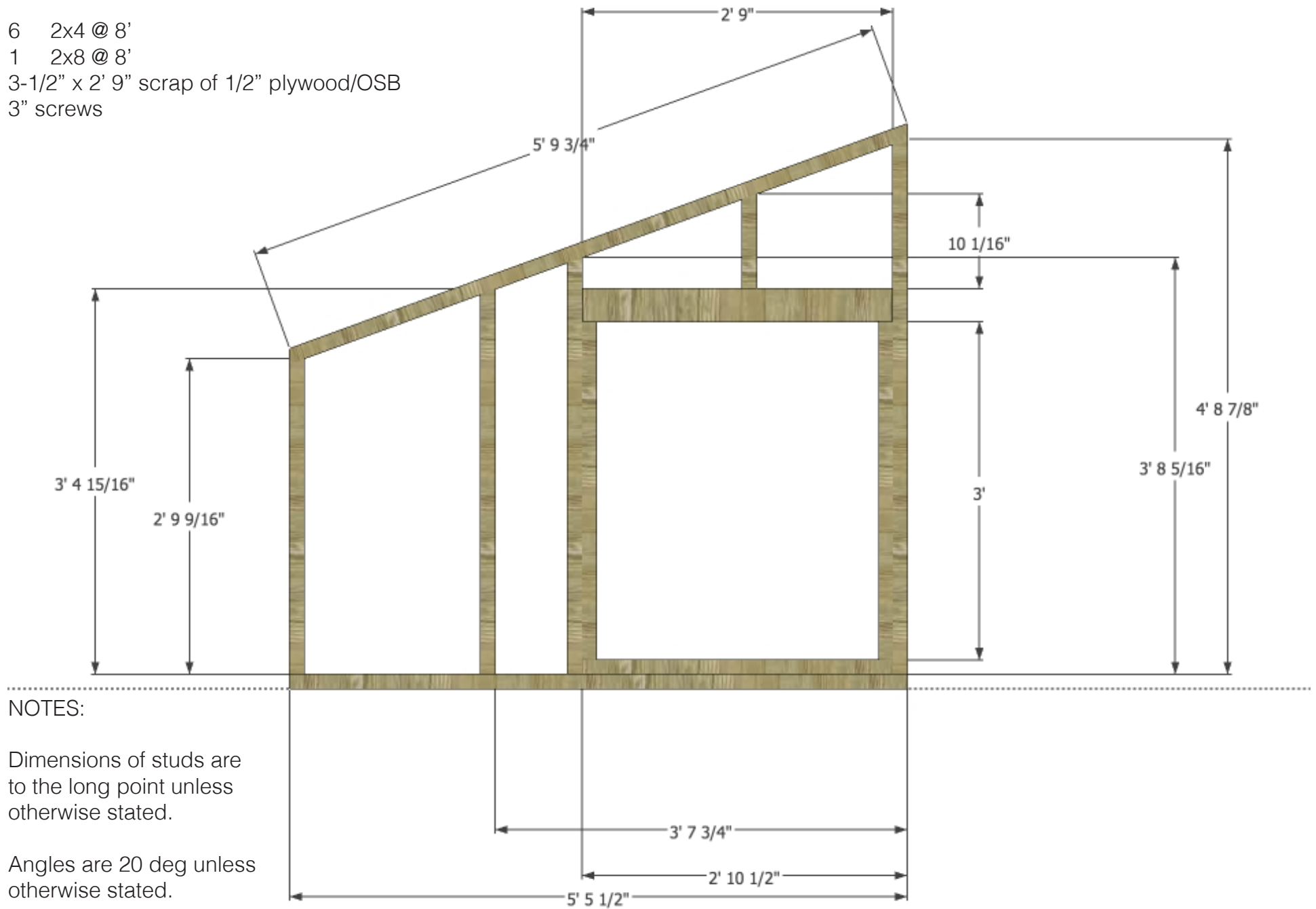


exterior OSB



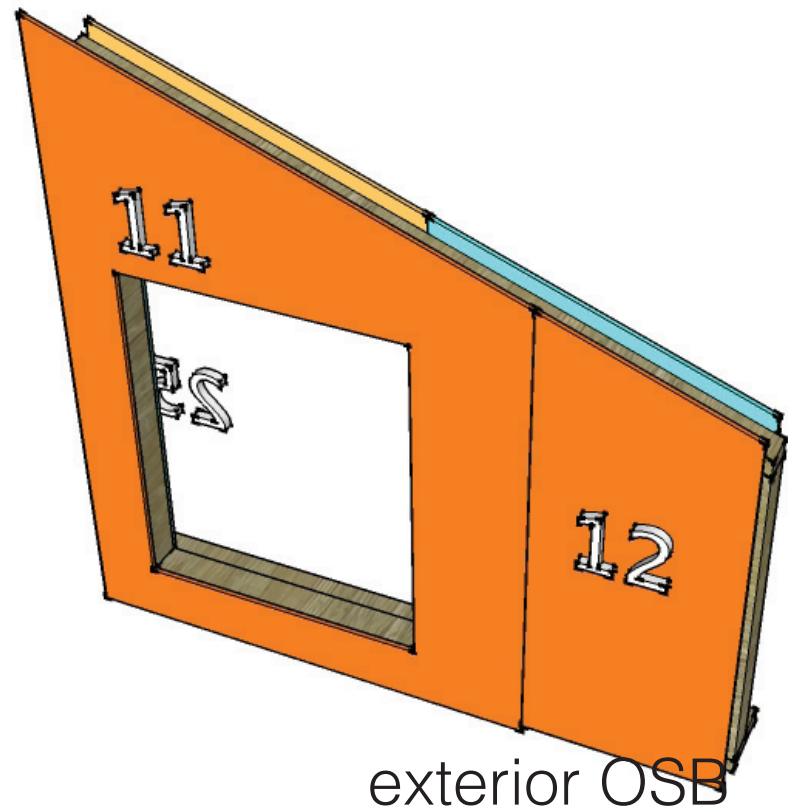
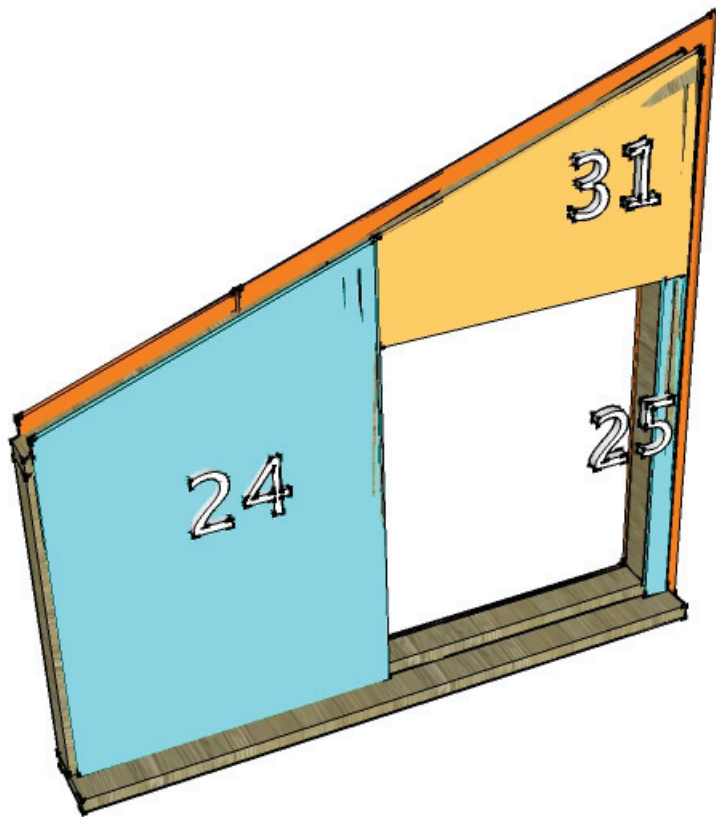
Large Angle Panel with window
(NW corner in MH v1)

6 2x4 @ 8'
1 2x8 @ 8'
3-1/2" x 2' 9" scrap of 1/2" plywood/OSB
3" screws



North-West Angle

interior PLYWOOD



exterior OSB

measurement is for this stud

4' 8 7/8" to short

1' 7 9/16"

1' 5"

2' 9"

3' 2 1/16"

North-West Box Panel

(NW corner in MH v1)

10 2x4 @ 8'

1 2x8 @ 8'

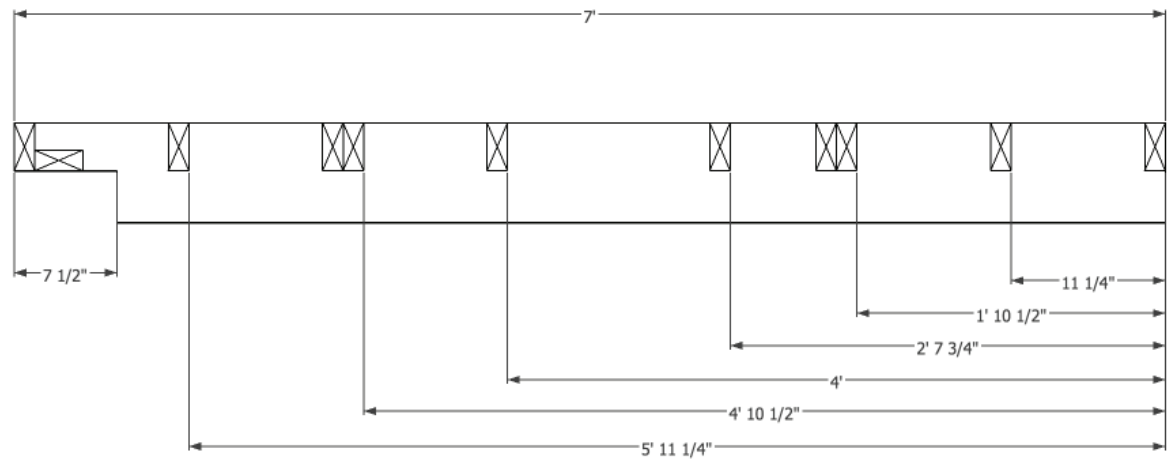
3-1/2" x 2' 9" scrap of 1/2" plywood/OSB

3" screws

NOTES:

Dimensions of studs are to the long point unless otherwise stated.

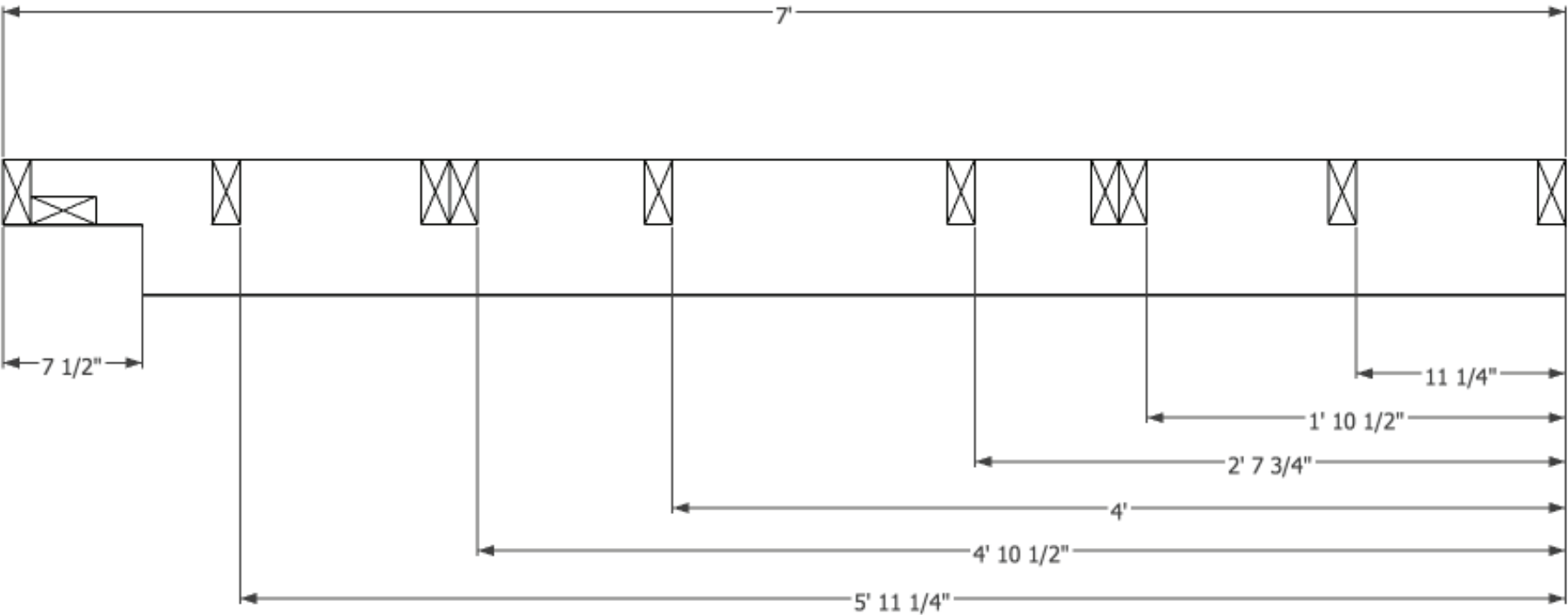
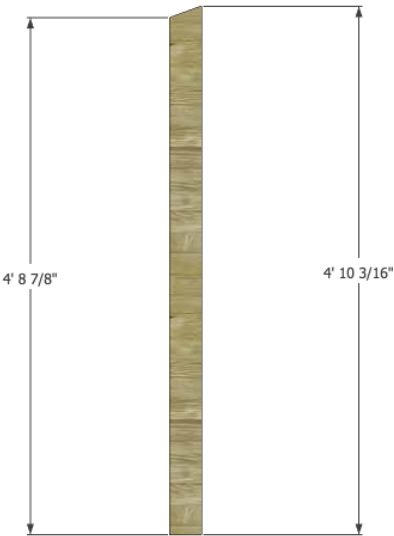
Angles are 20 deg unless otherwise stated.



North-West Box Panel

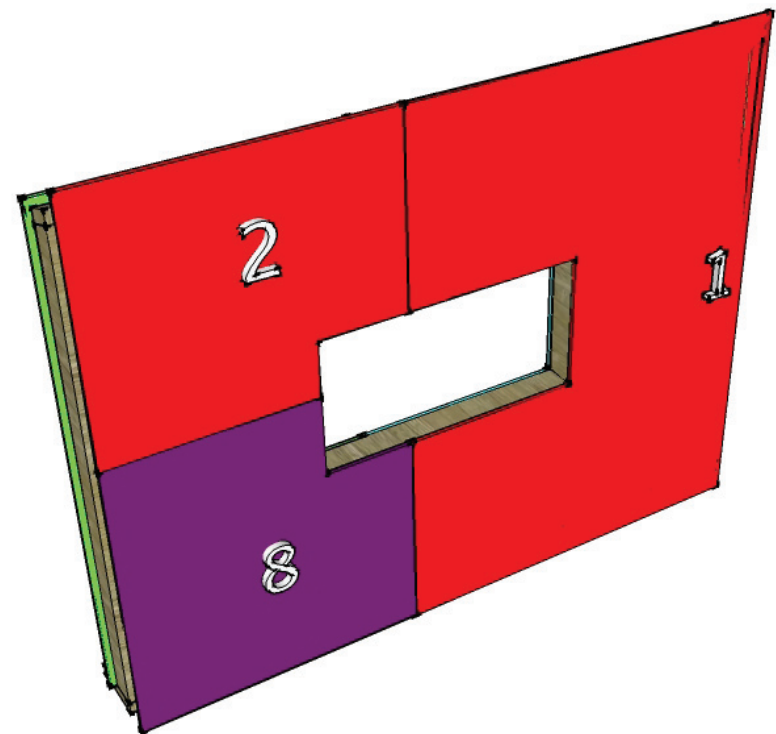
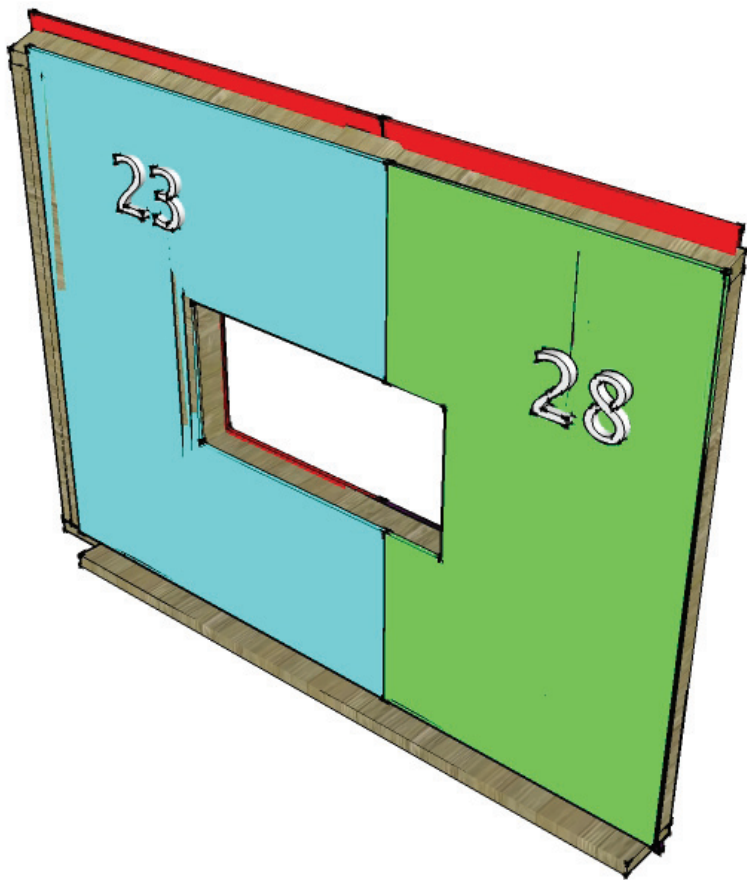
(NW corner in MH v1)

Bottom Plate Layout
and Common Stud

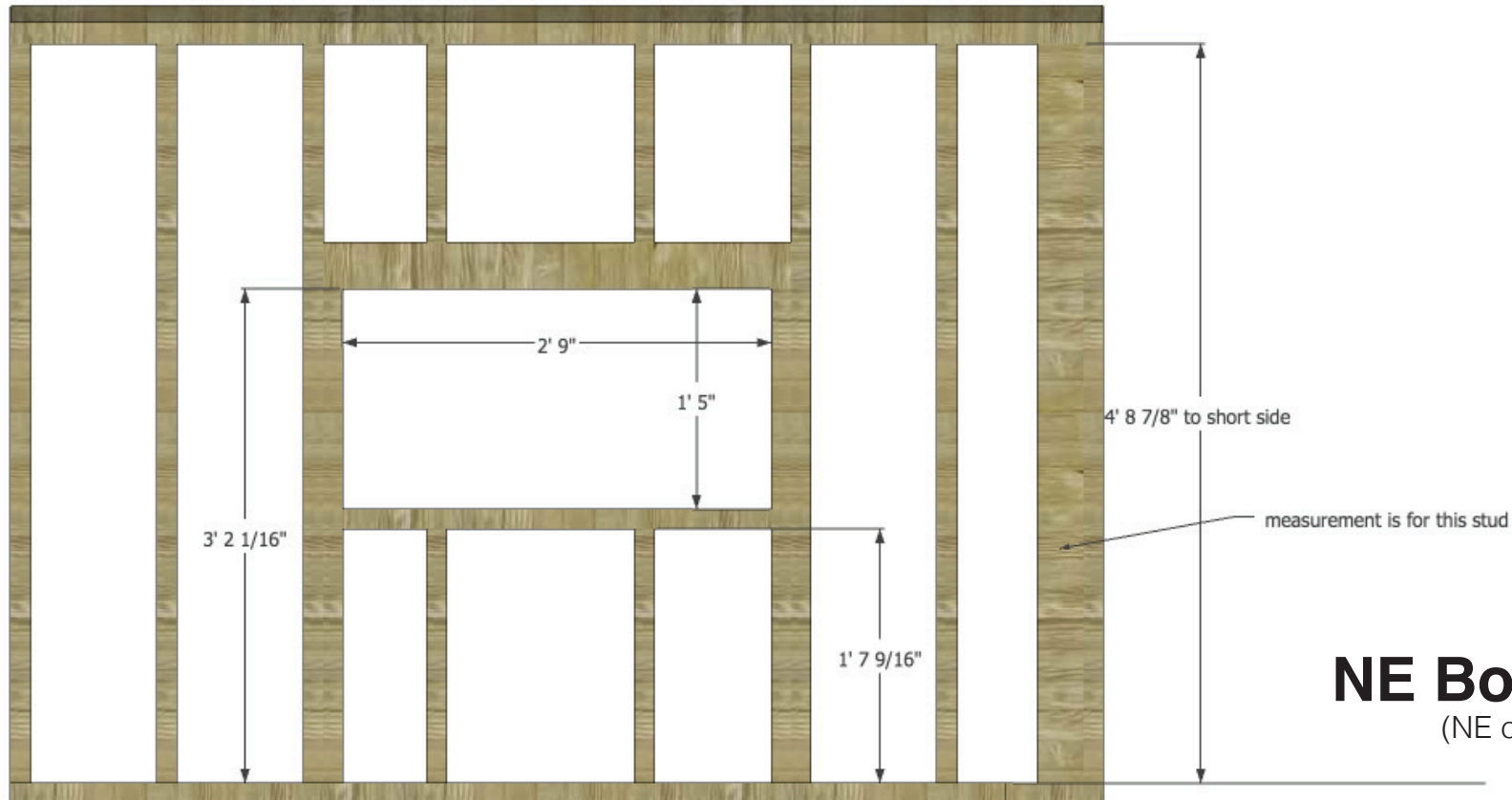


North-West Box

interior PLYWOOD



exterior OSB



NE Box Panel

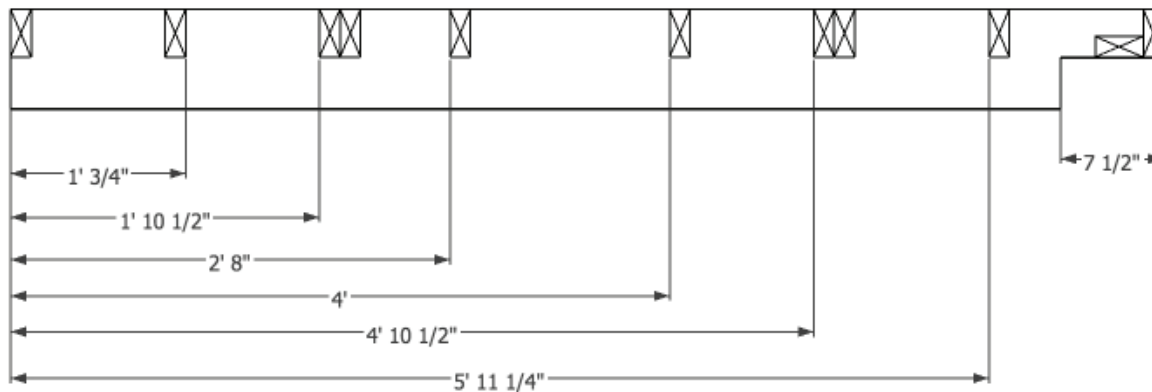
(NE corner in MH v1)

10 2x4 @ 8'

1 2x8 @ 8'

3-1/2" x 2' 9" scrap of 1/2" plywood/OSB

3" screws



NOTES:

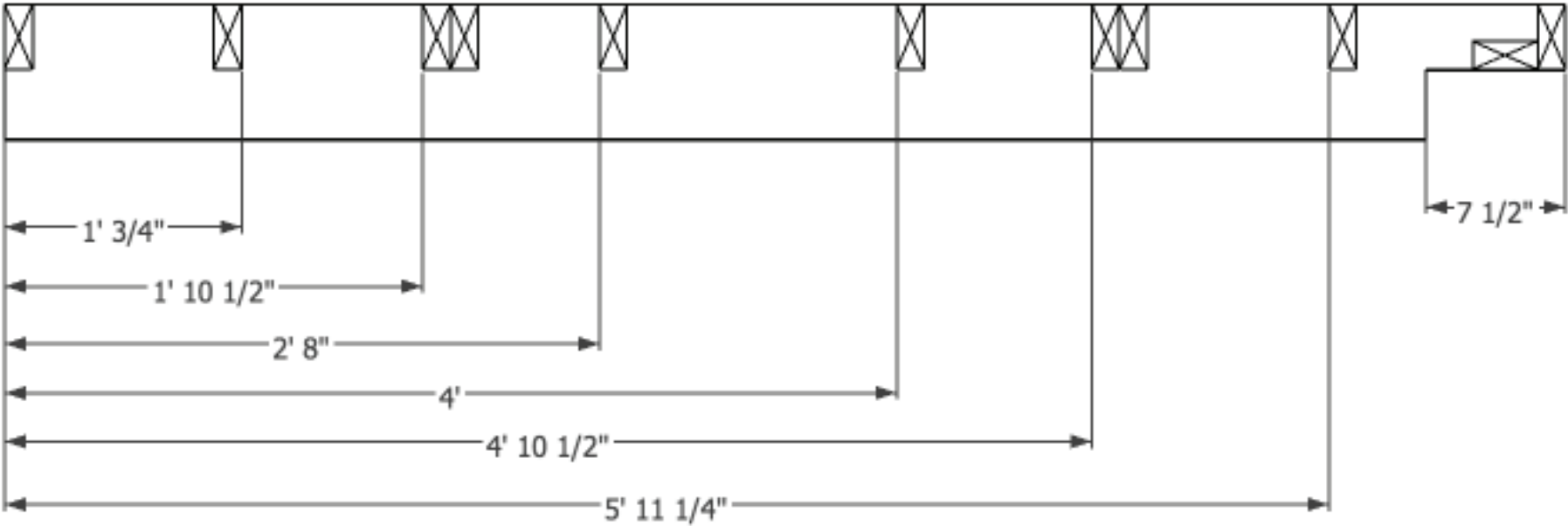
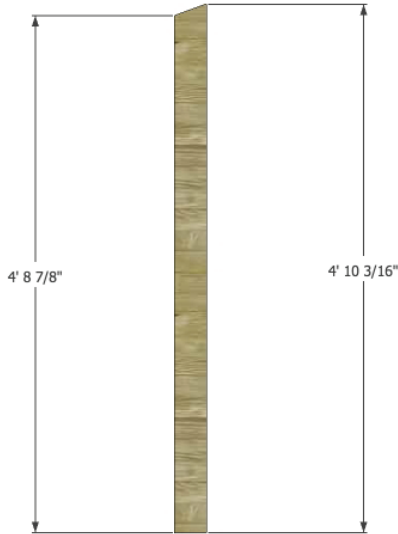
Dimensions of studs are to the long point unless otherwise stated.

Angles are 20 deg unless otherwise stated.

North-East Box Panel

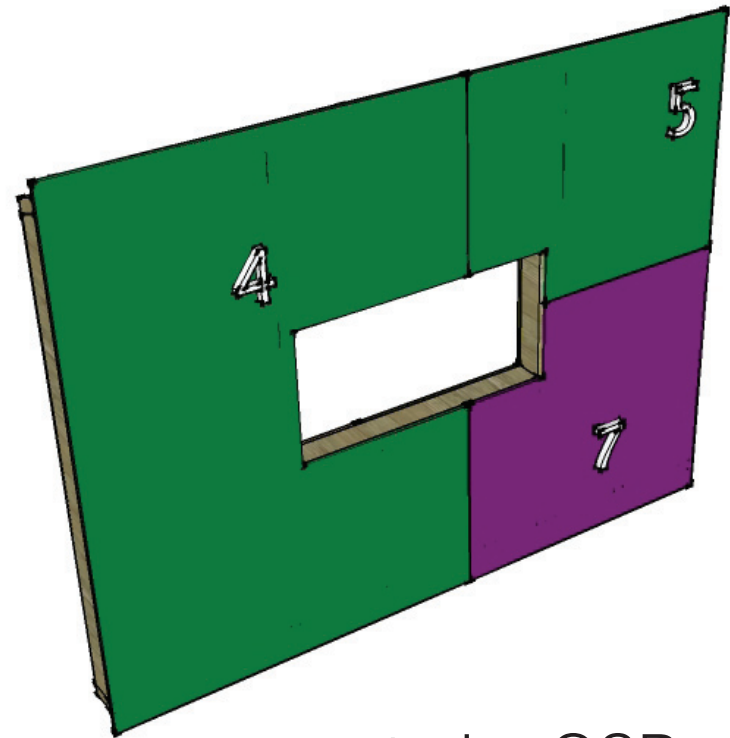
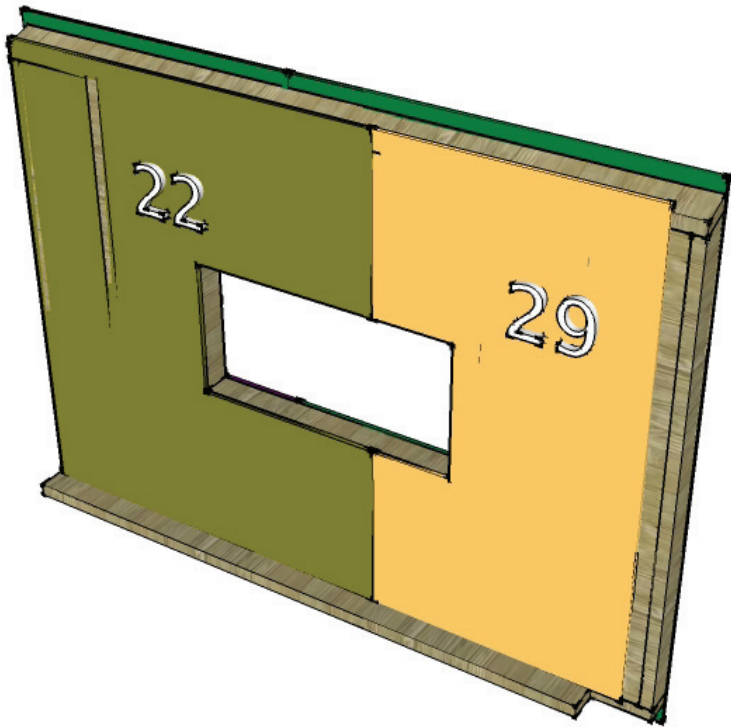
(NE corner in MH v1)

Bottom Plate Layout and common stud



North-East Box

interior PLYWOOD



exterior OSB

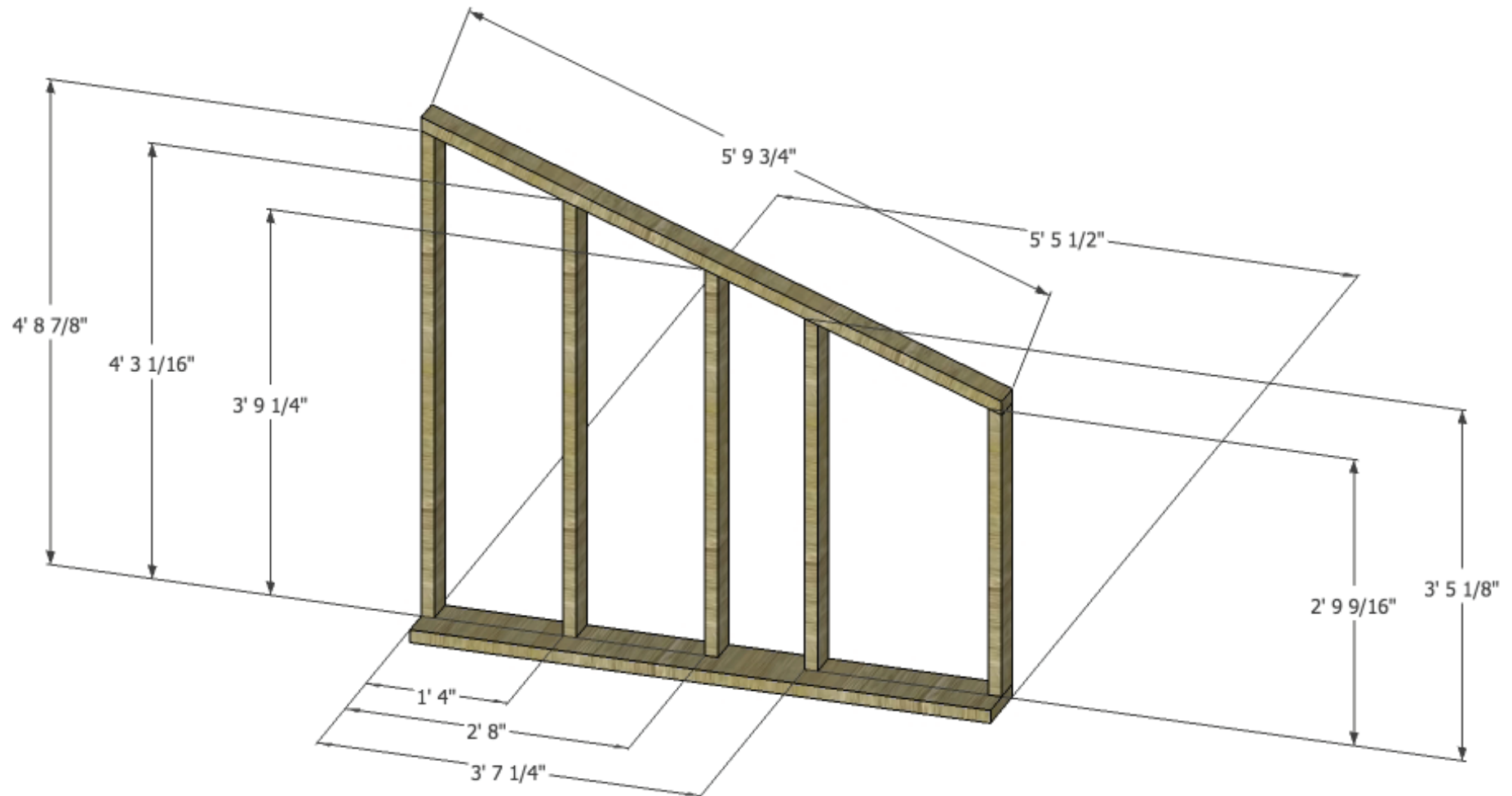
NE angle

4 2x4 @ 8'

1 2x8 @ 8'

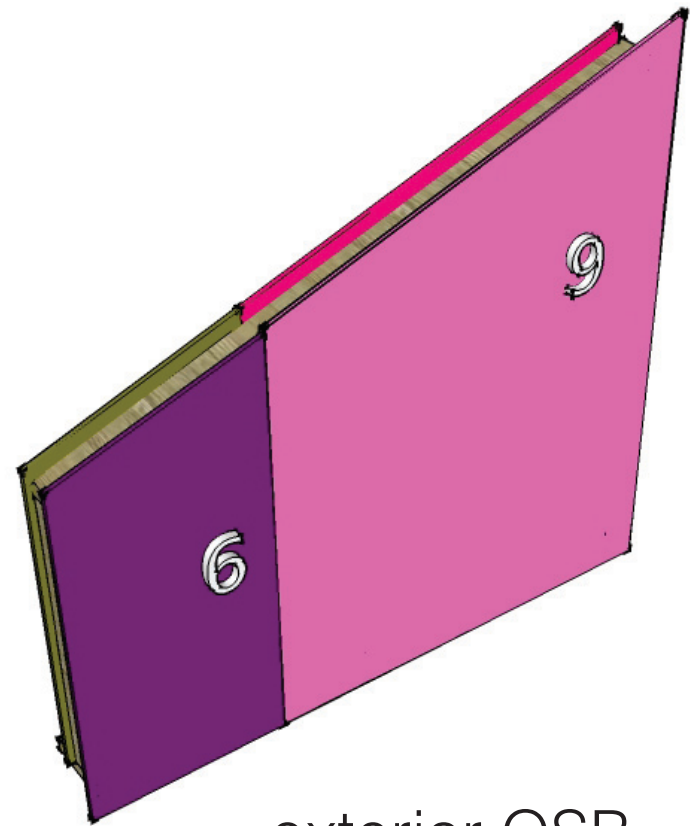
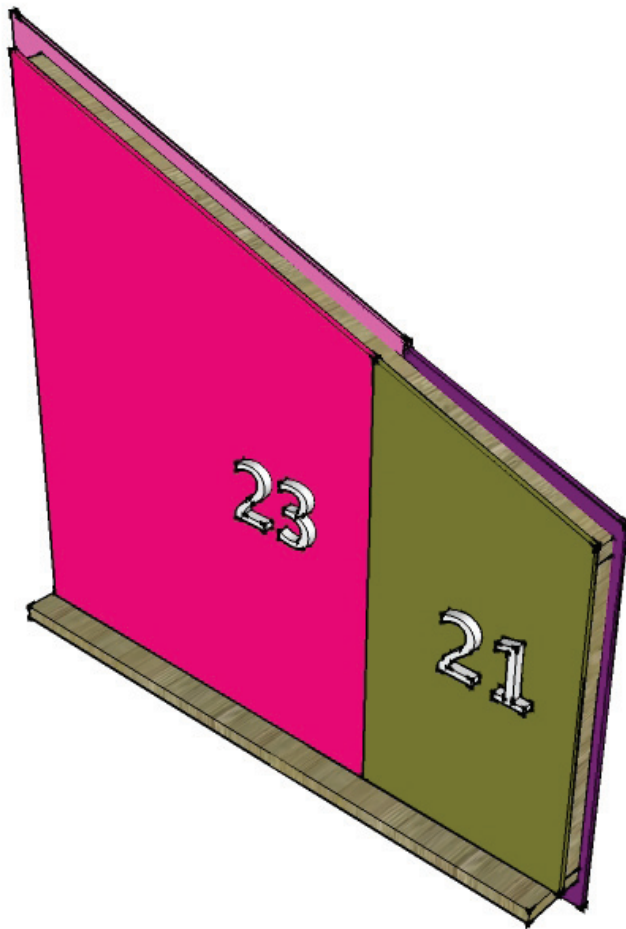
3-1/2" x 2'-9" scrap of 1/2" plywood/OSB

3" screws



North-East Angle

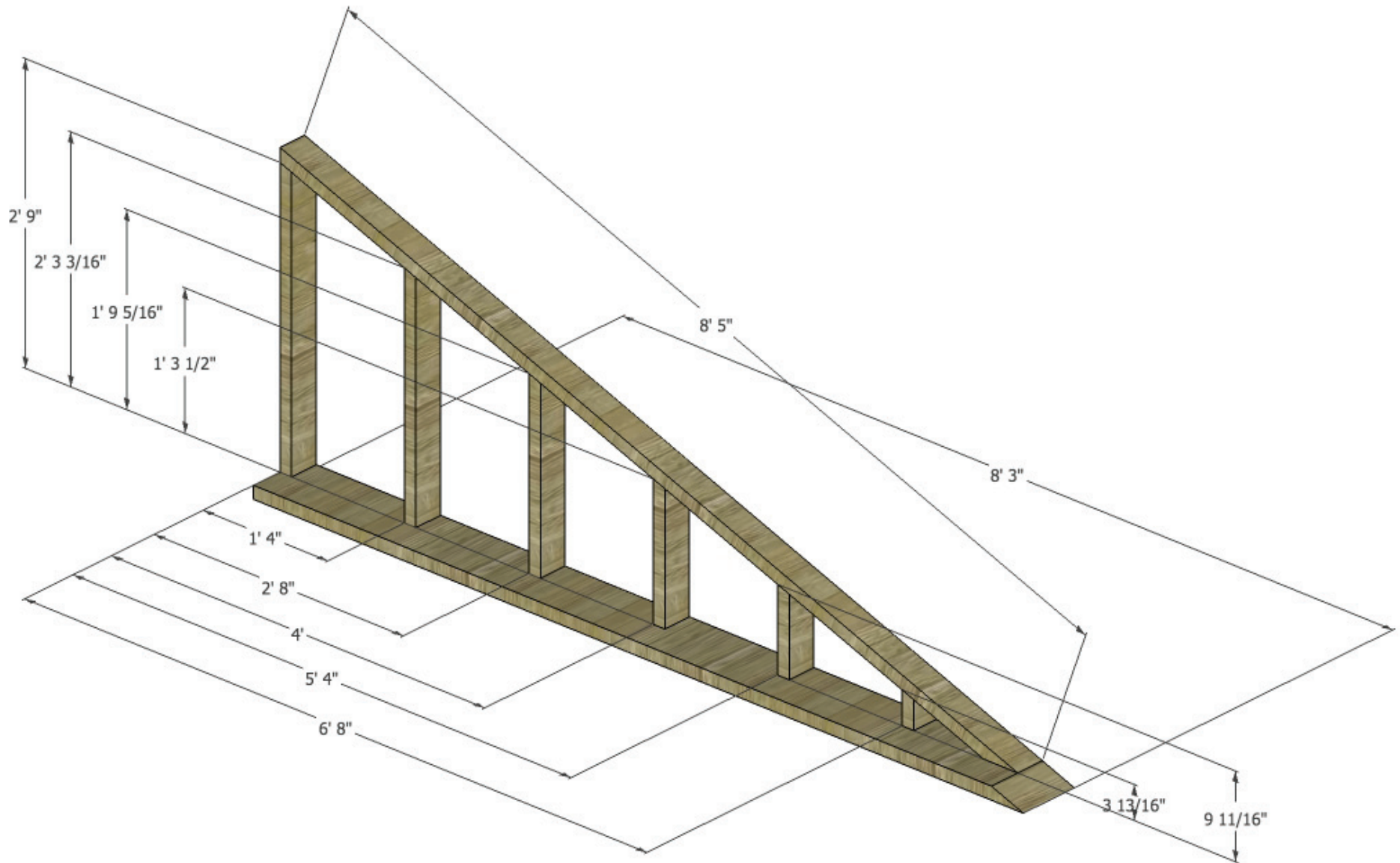
interior PLYWOOD



exterior OSB

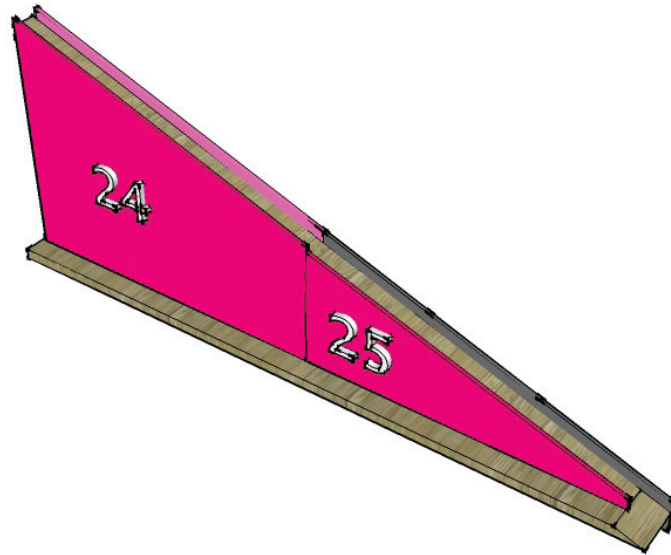
NE angle

- 1 2x4 @ 10'
- 2 2x4 @ 8'
- 1 2x8 @ 8'
- 3" screws

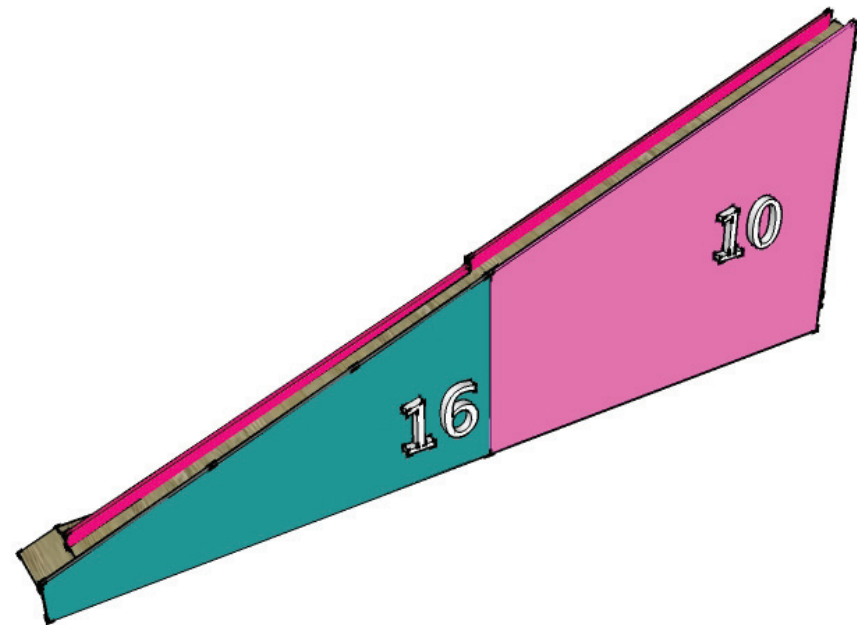


interior PLYWOOD

South-East

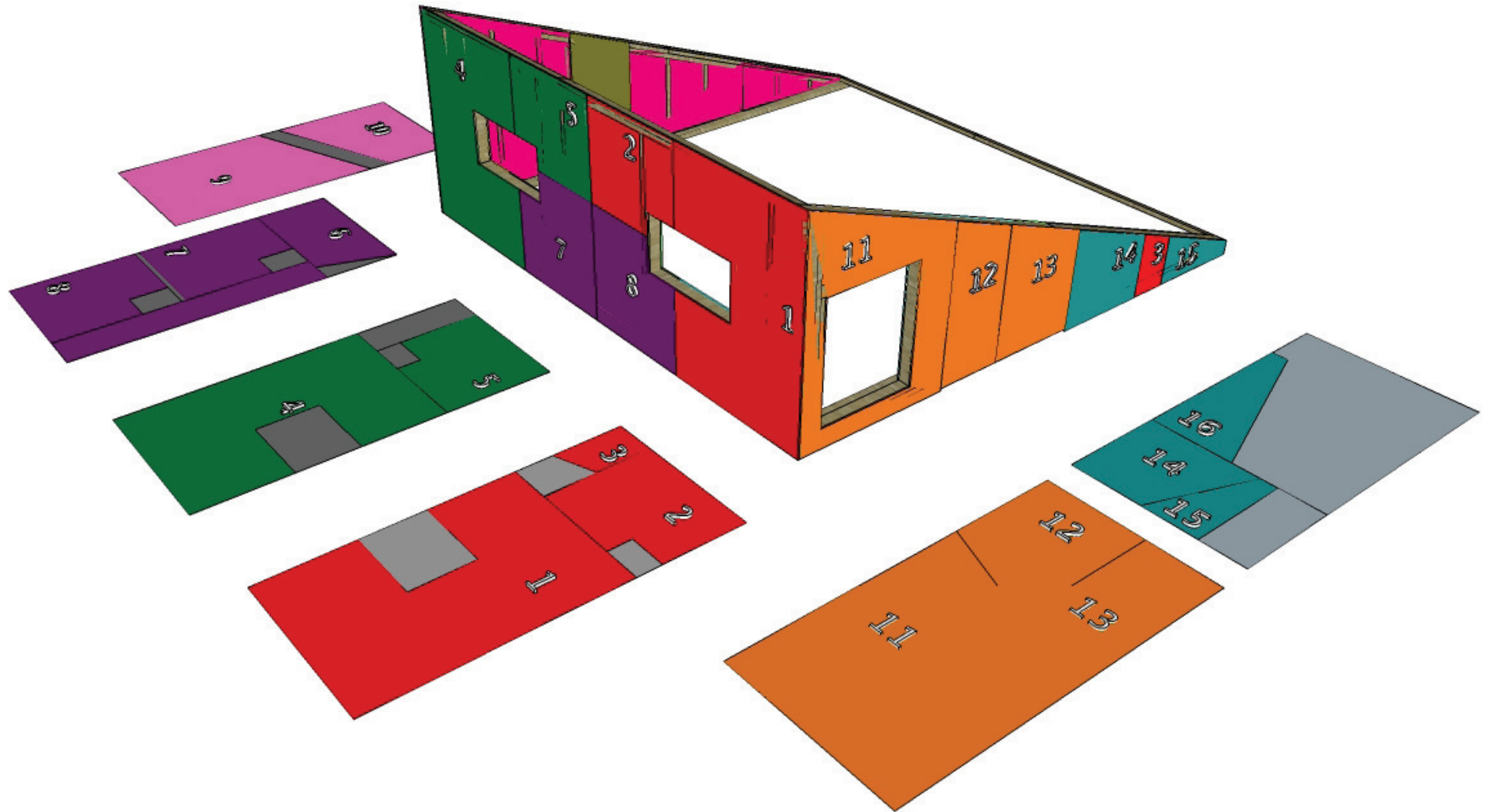


exterior OSB



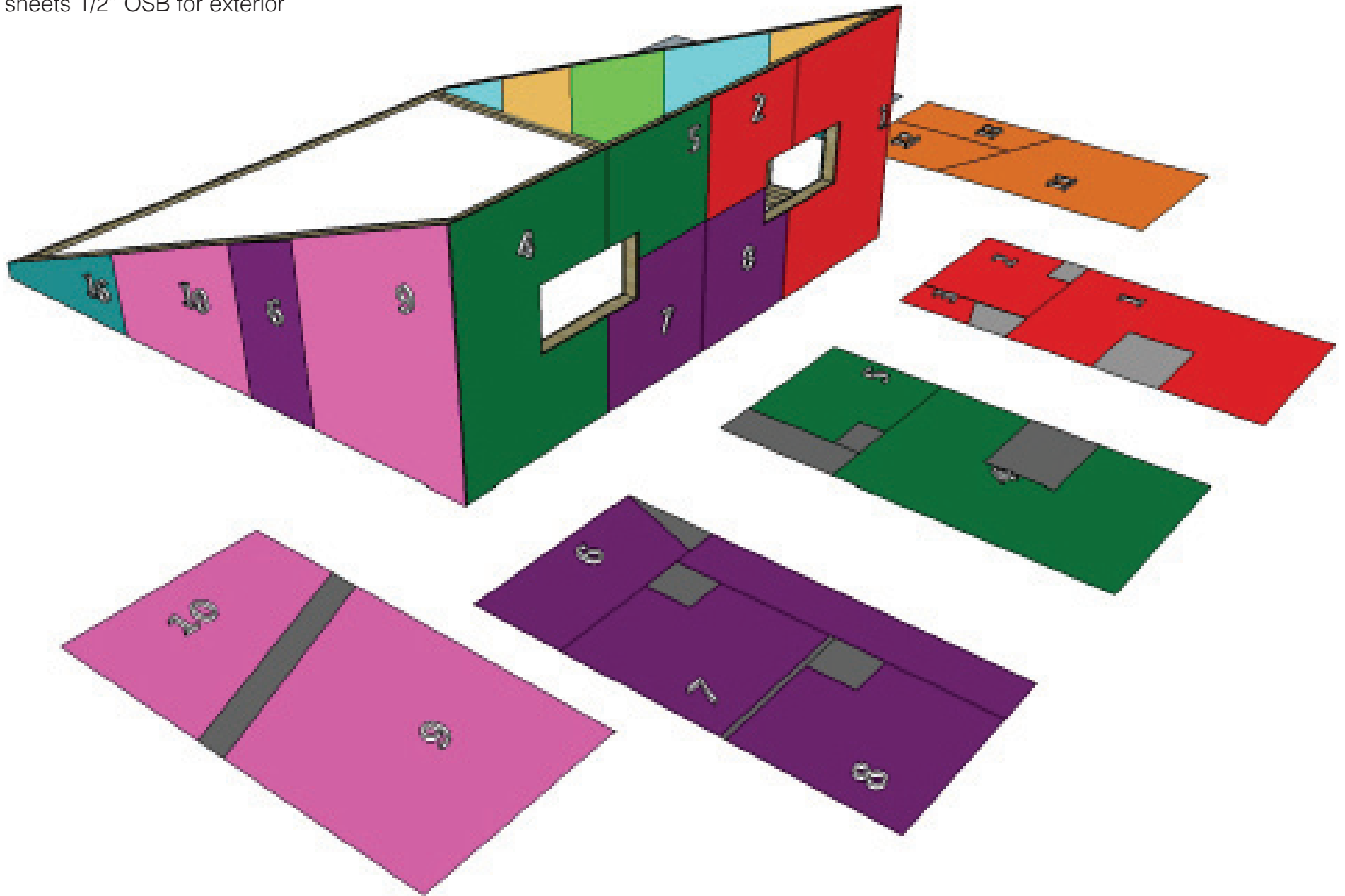
OSB

6 sheets 1/2" OSB for exterior



OSB

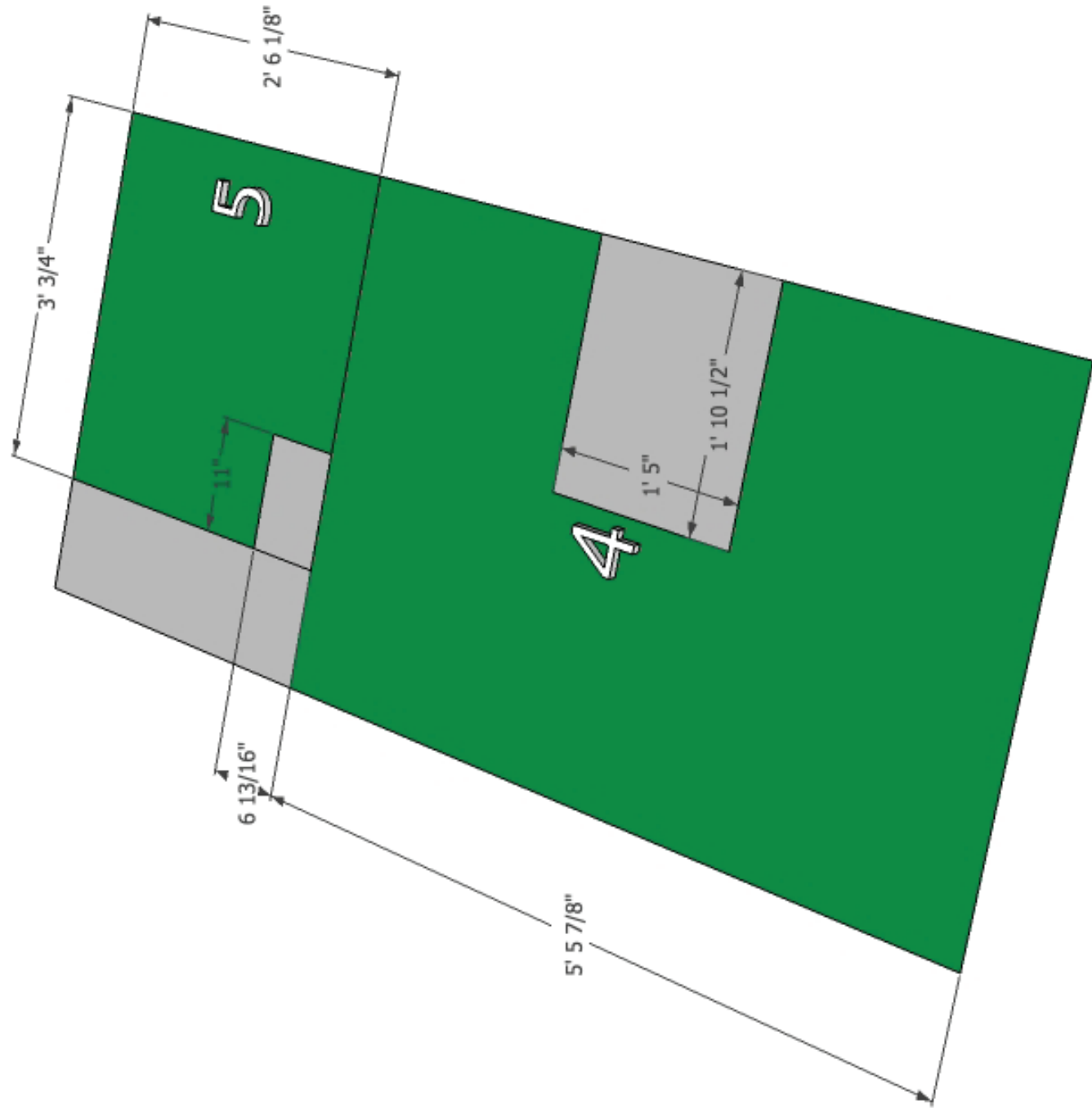
6 sheets 1/2" OSB for exterior



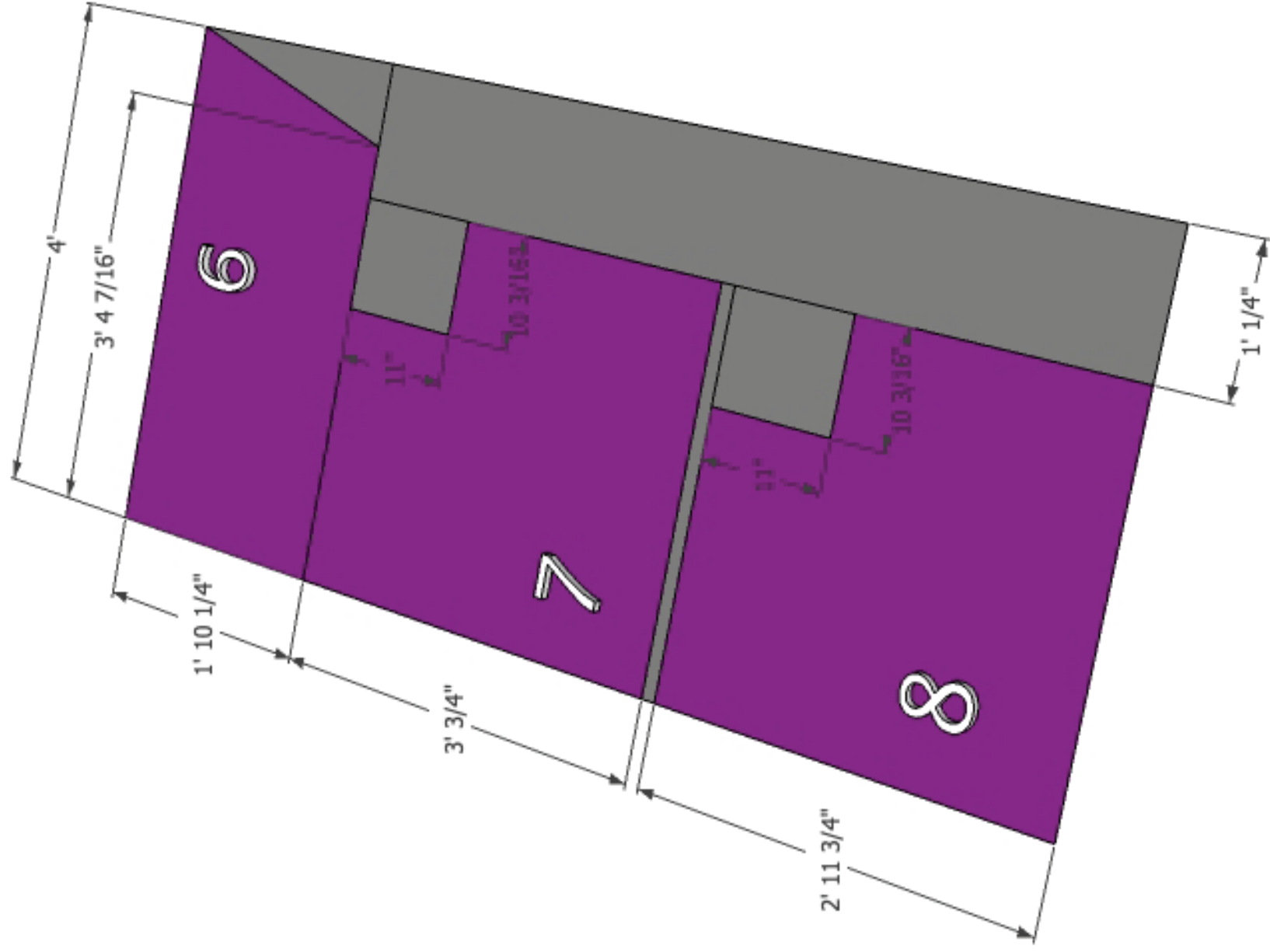
OSB



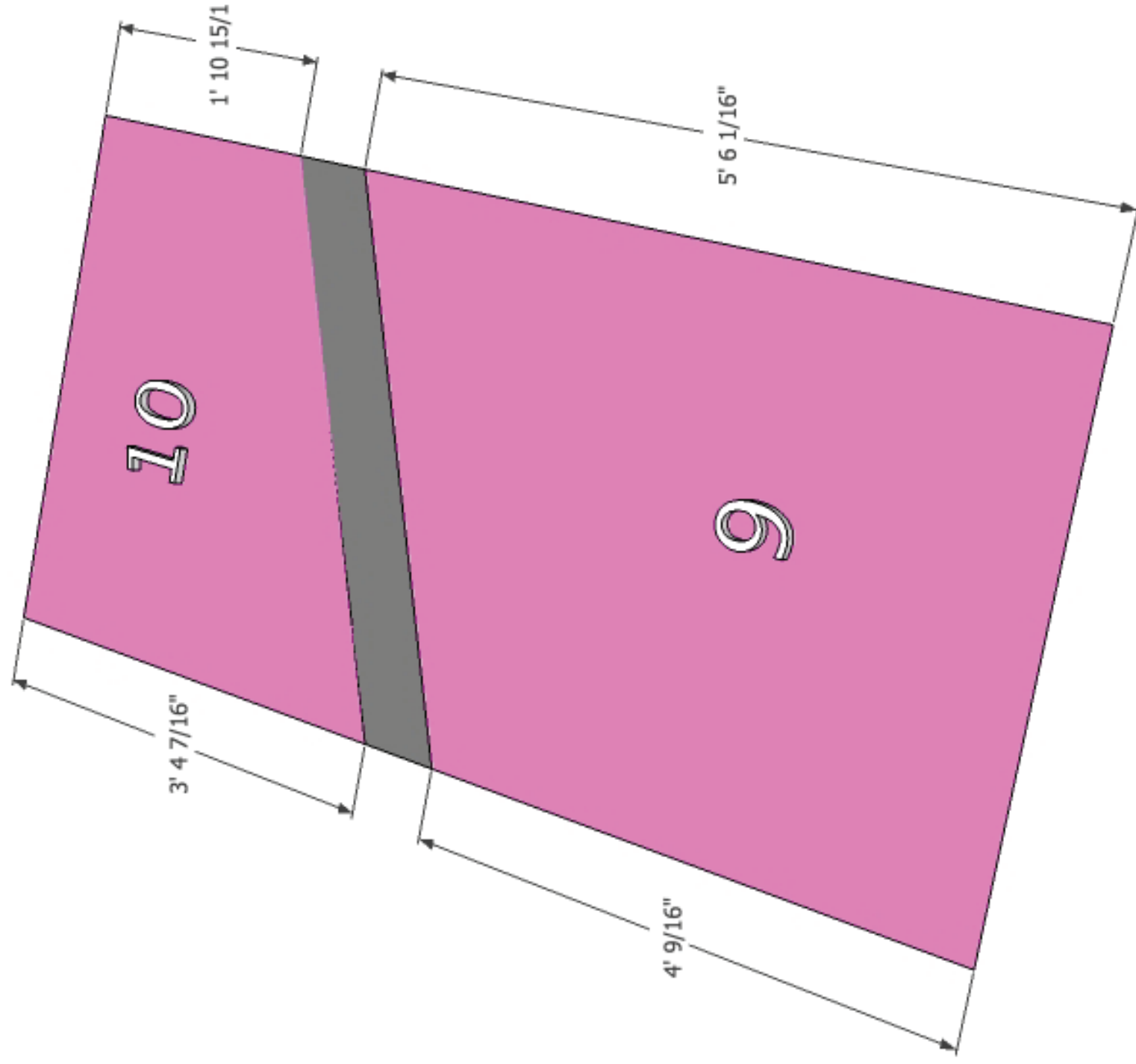
OSB



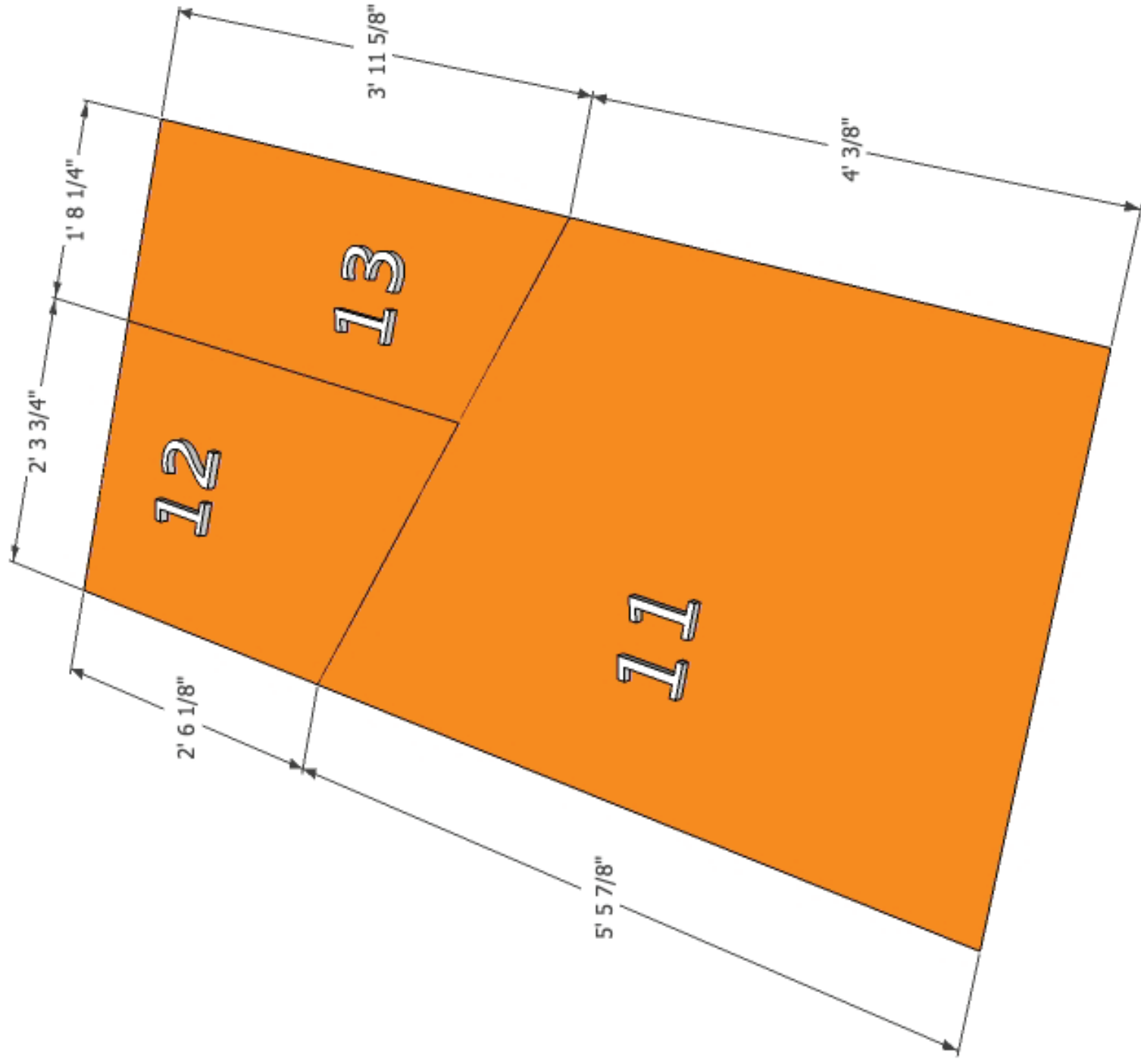
OSB



OSB

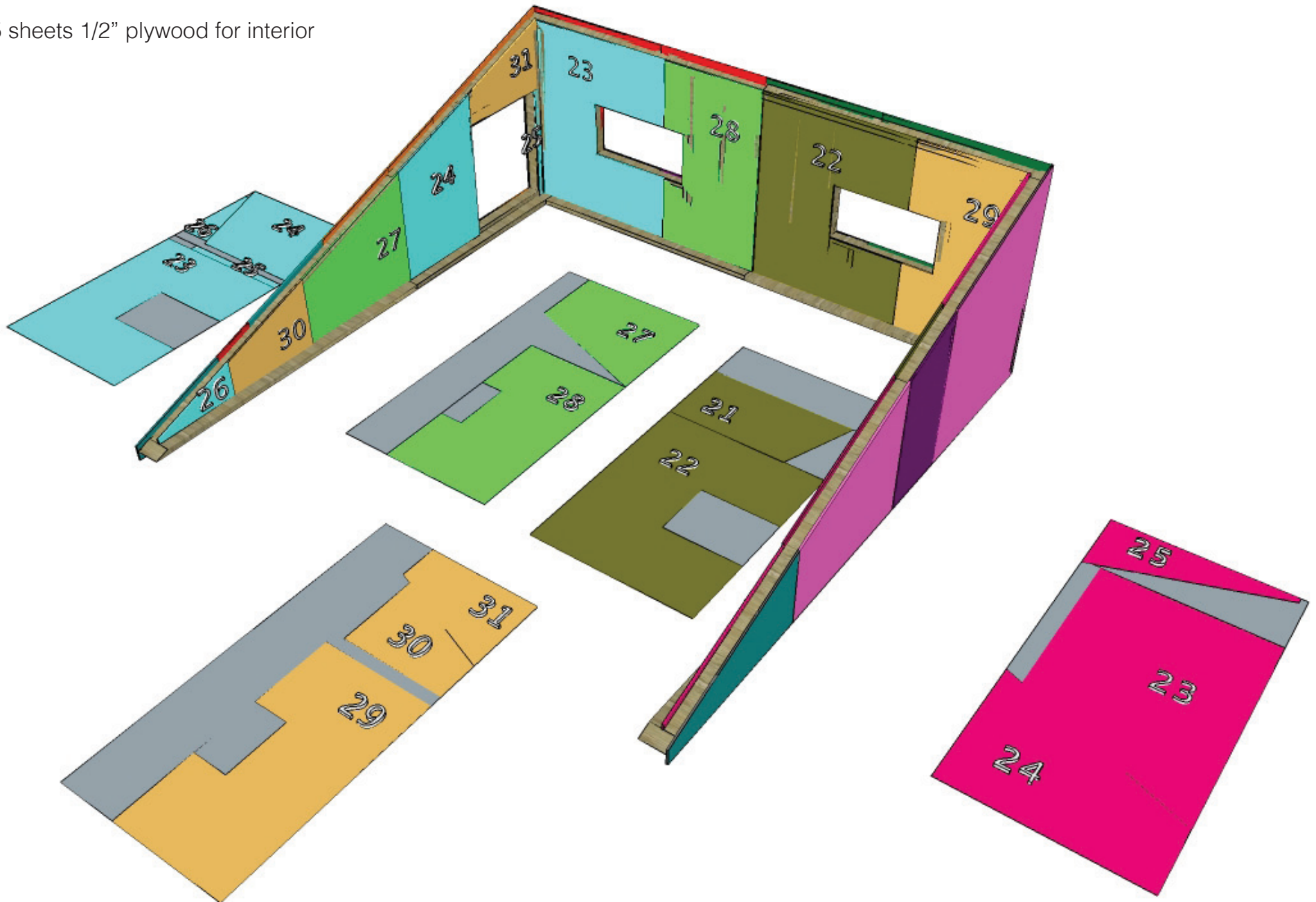


OSB



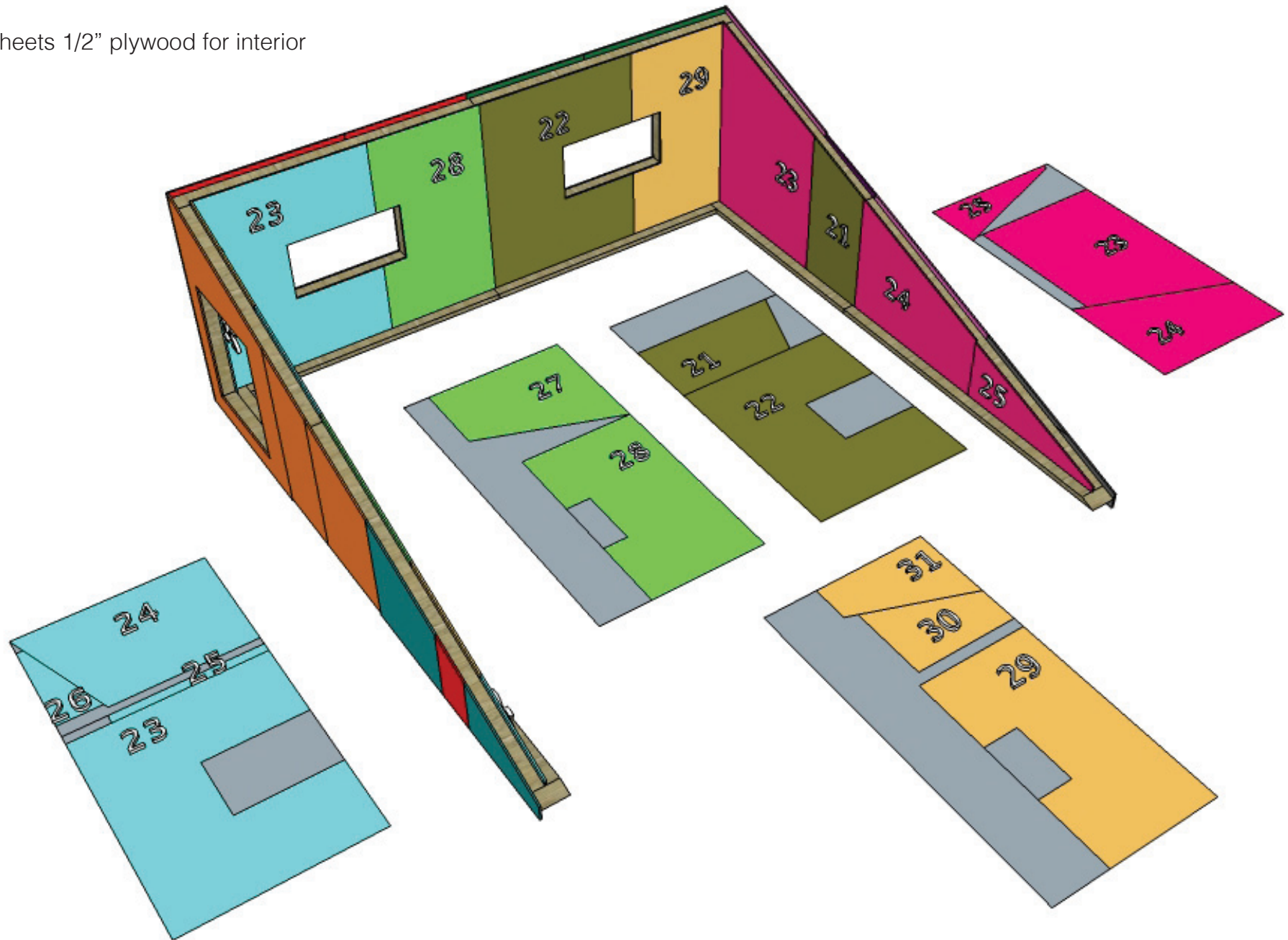
PLYWOOD

5 sheets 1/2" plywood for interior

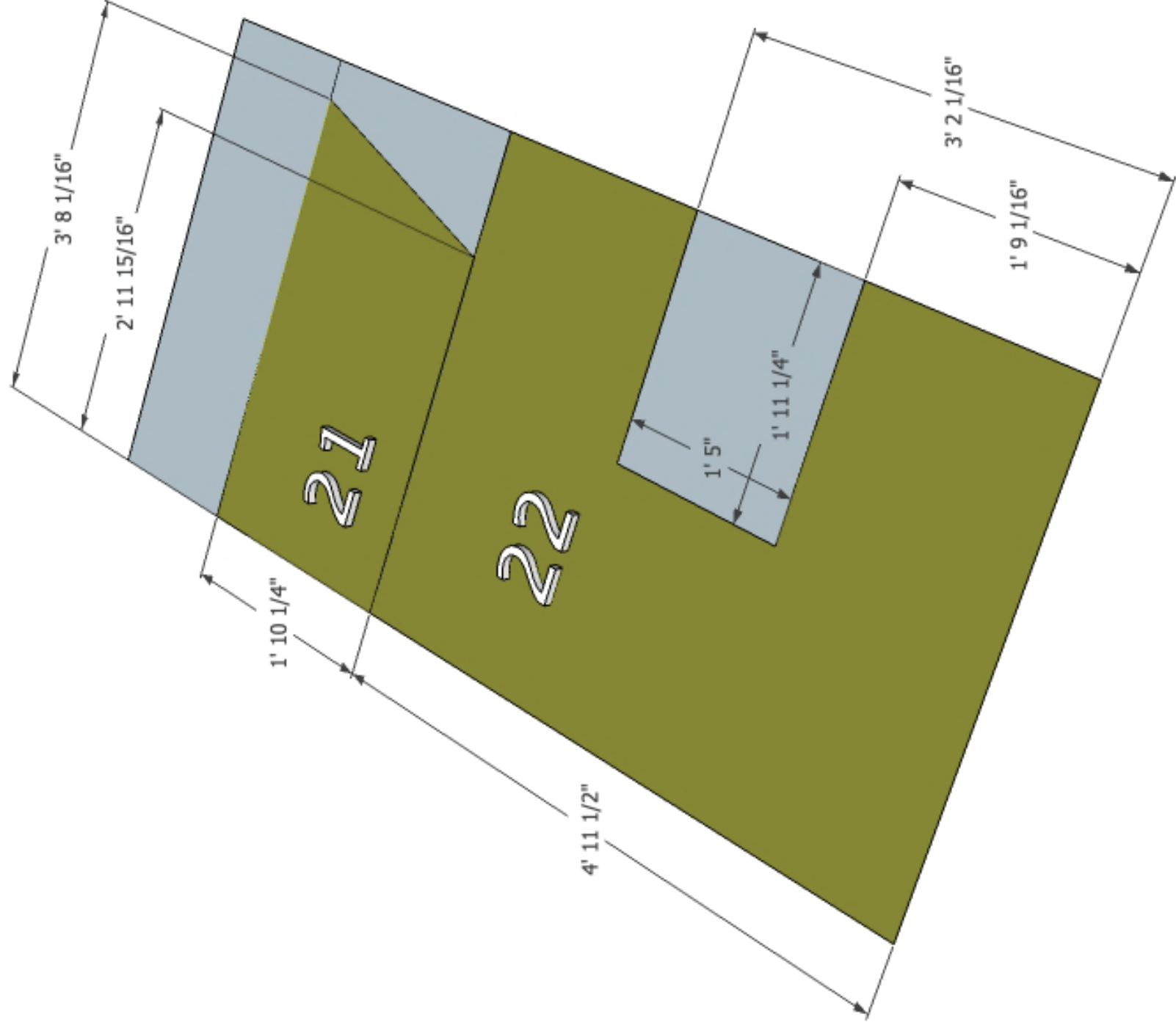


PLYWOOD

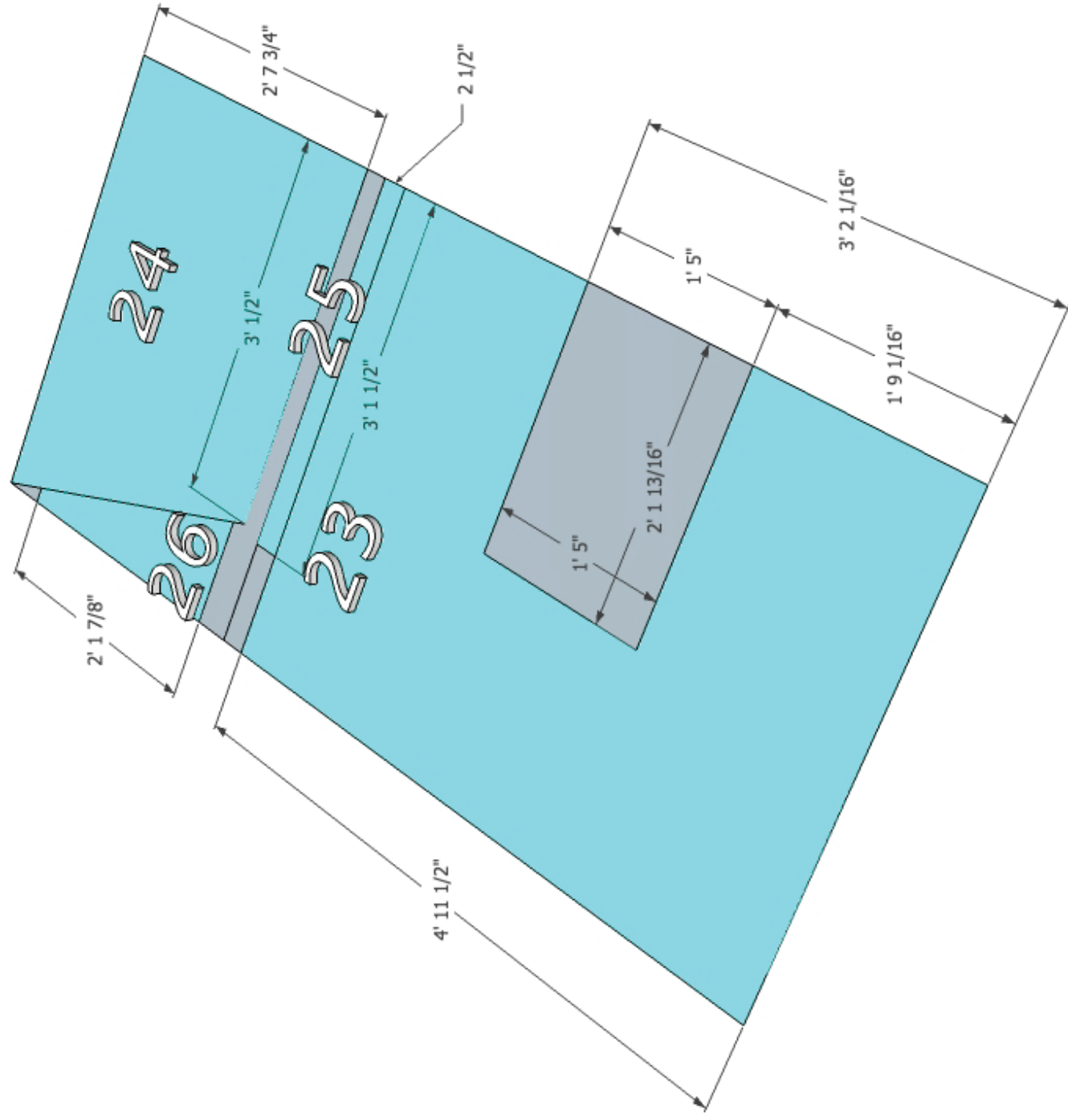
5 sheets 1/2" plywood for interior



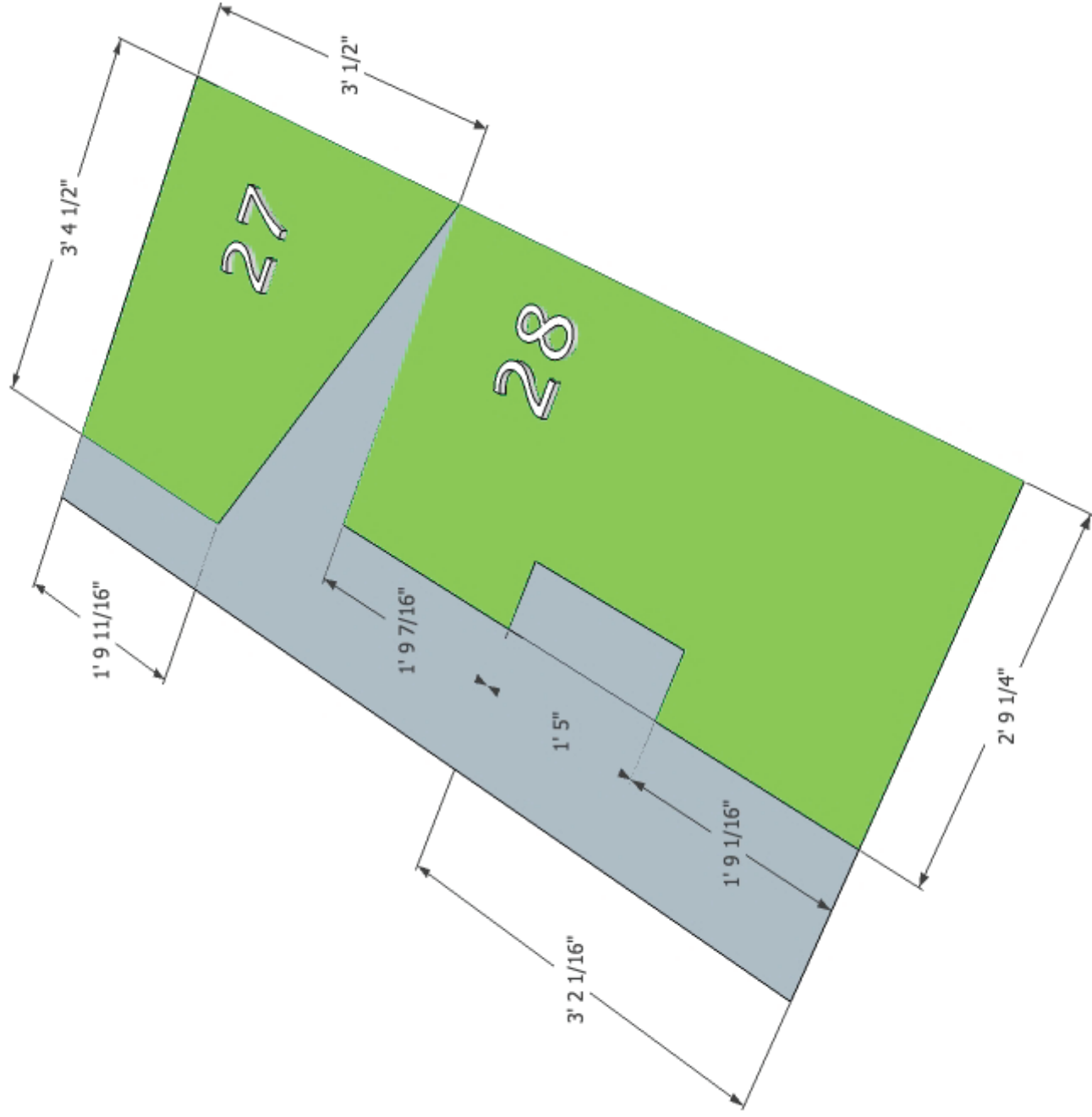
PLYWOOD



PLYWOOD



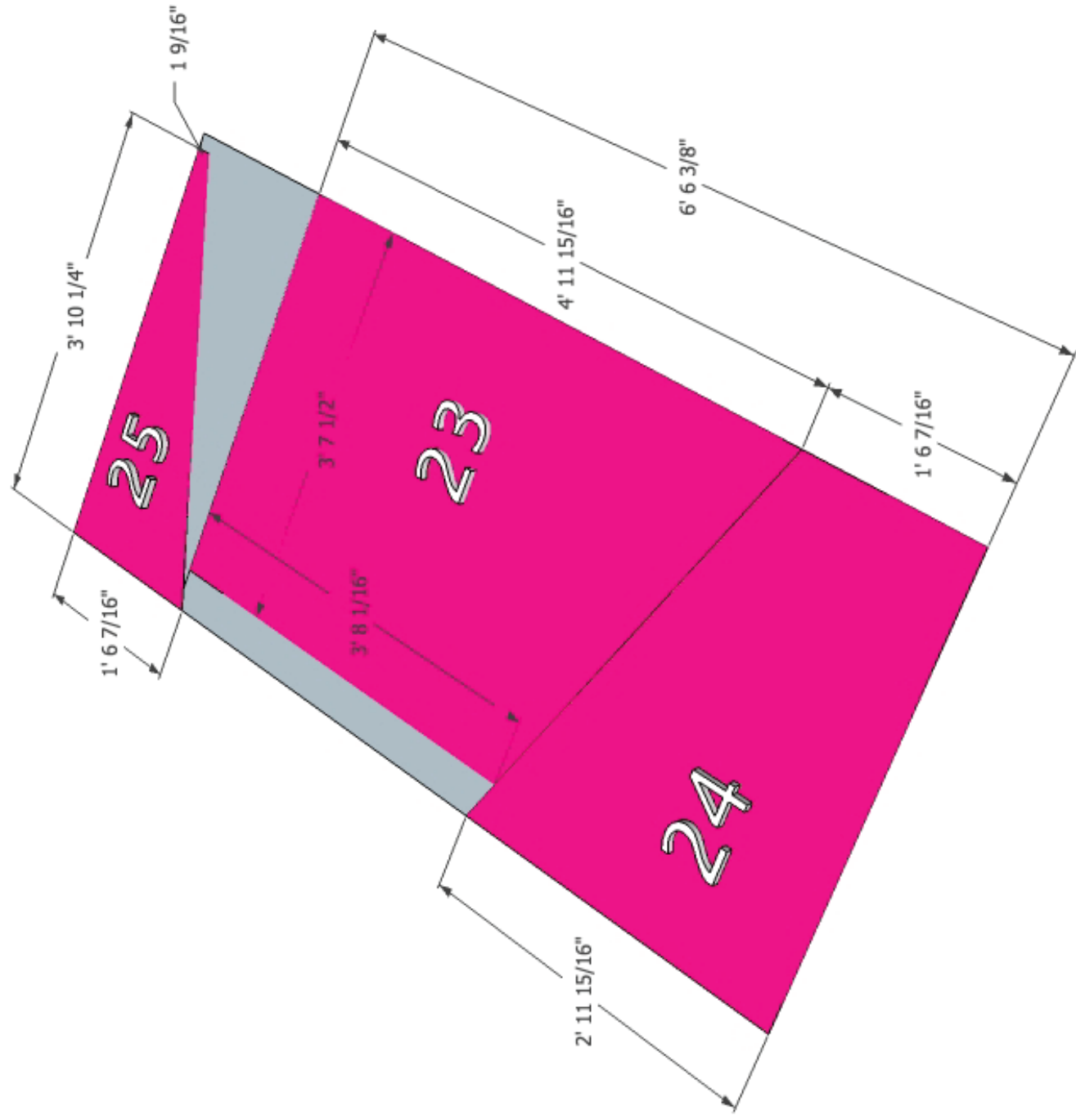
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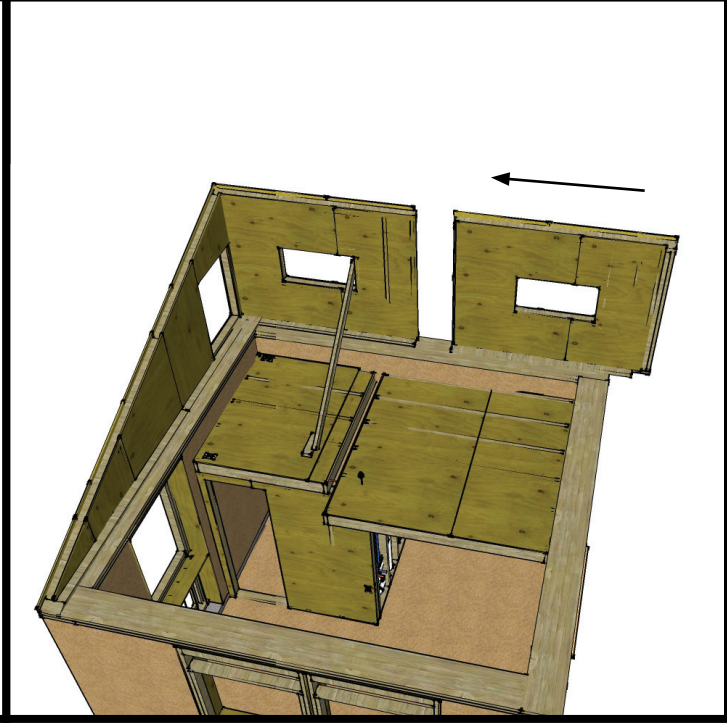
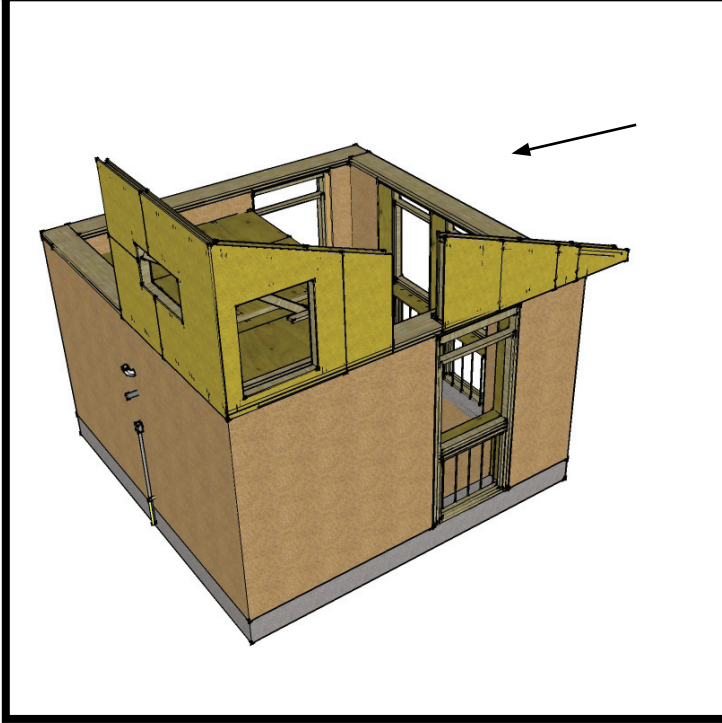
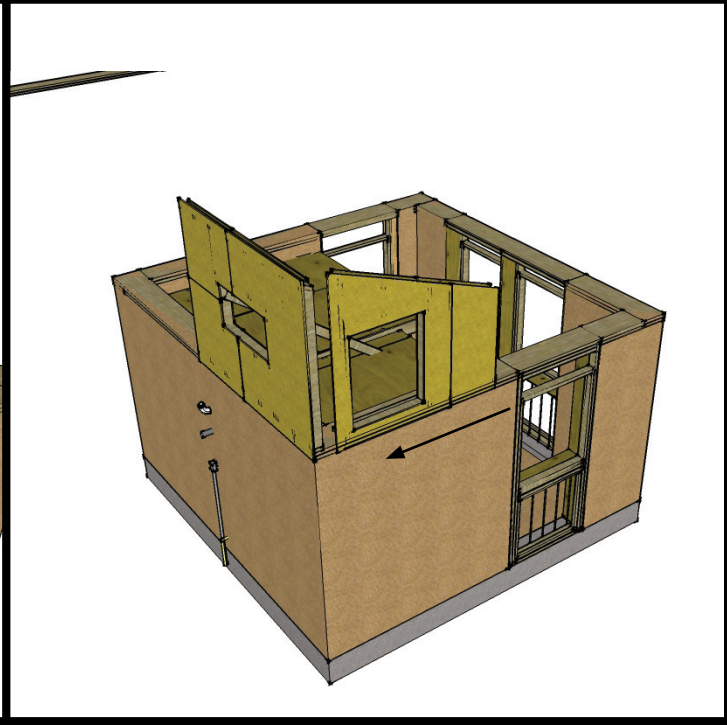
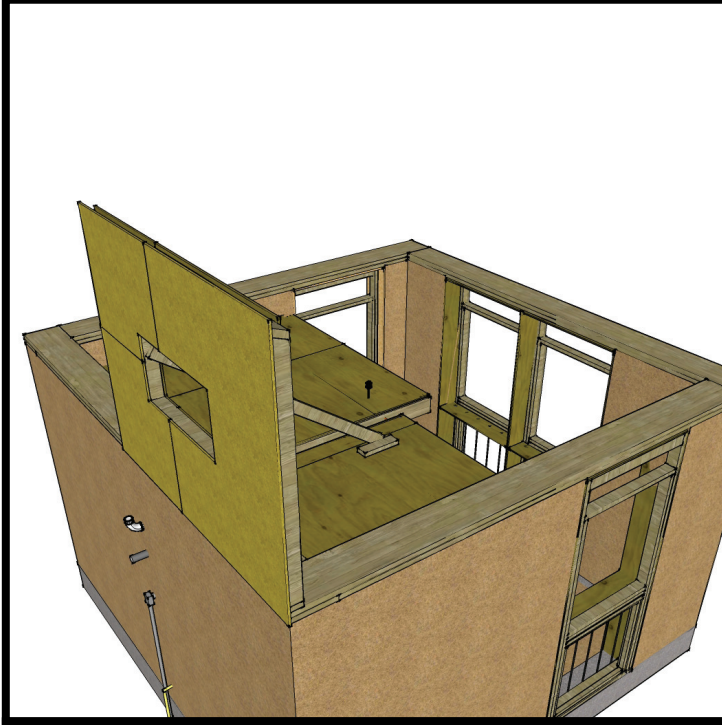
PLYWOOD



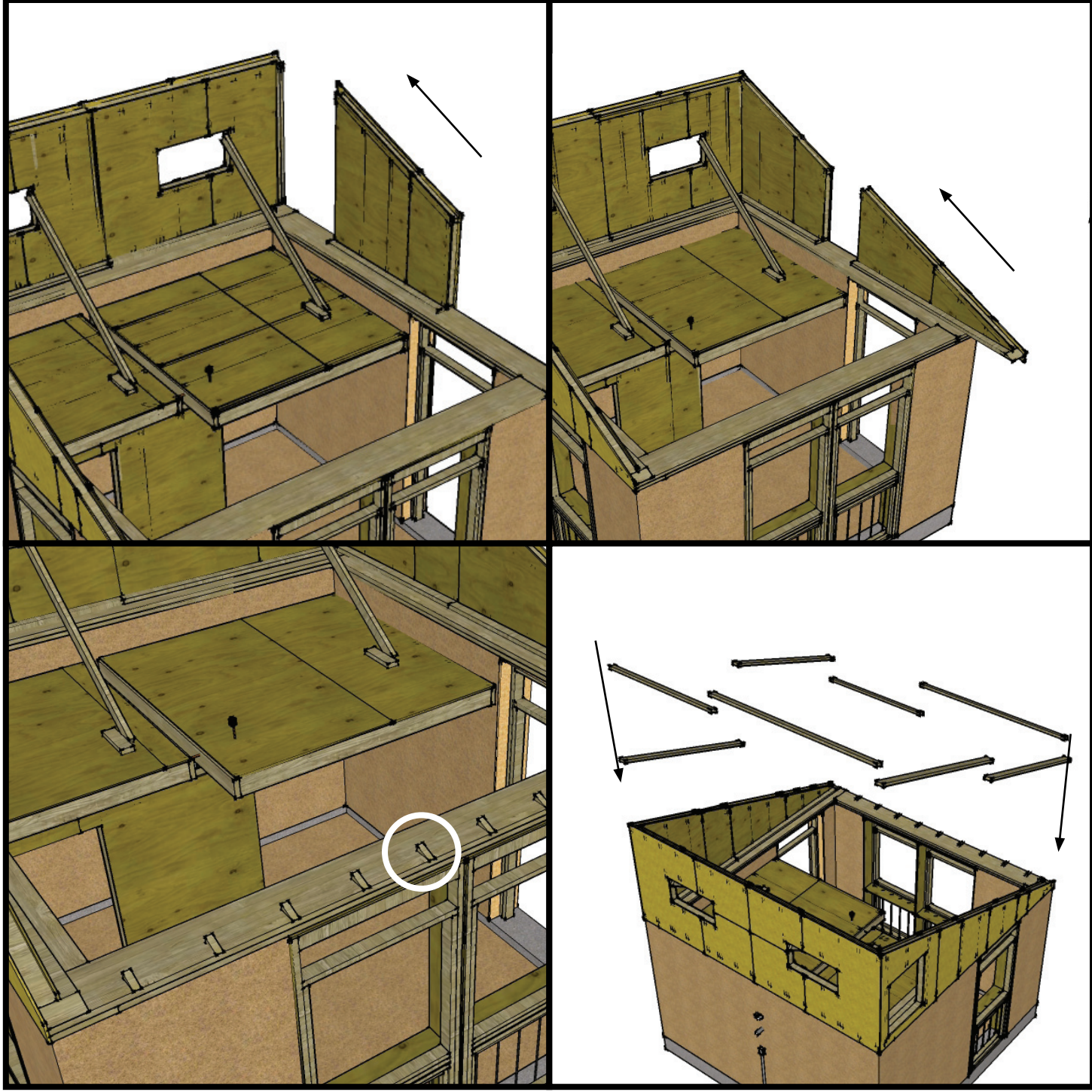
PLYWOOD



Exterior Panel Module Assembly (1 of 2)



Exterior Panel Module Assembly (2 of 2)



Loft Large Panel

(materials are for both panels)

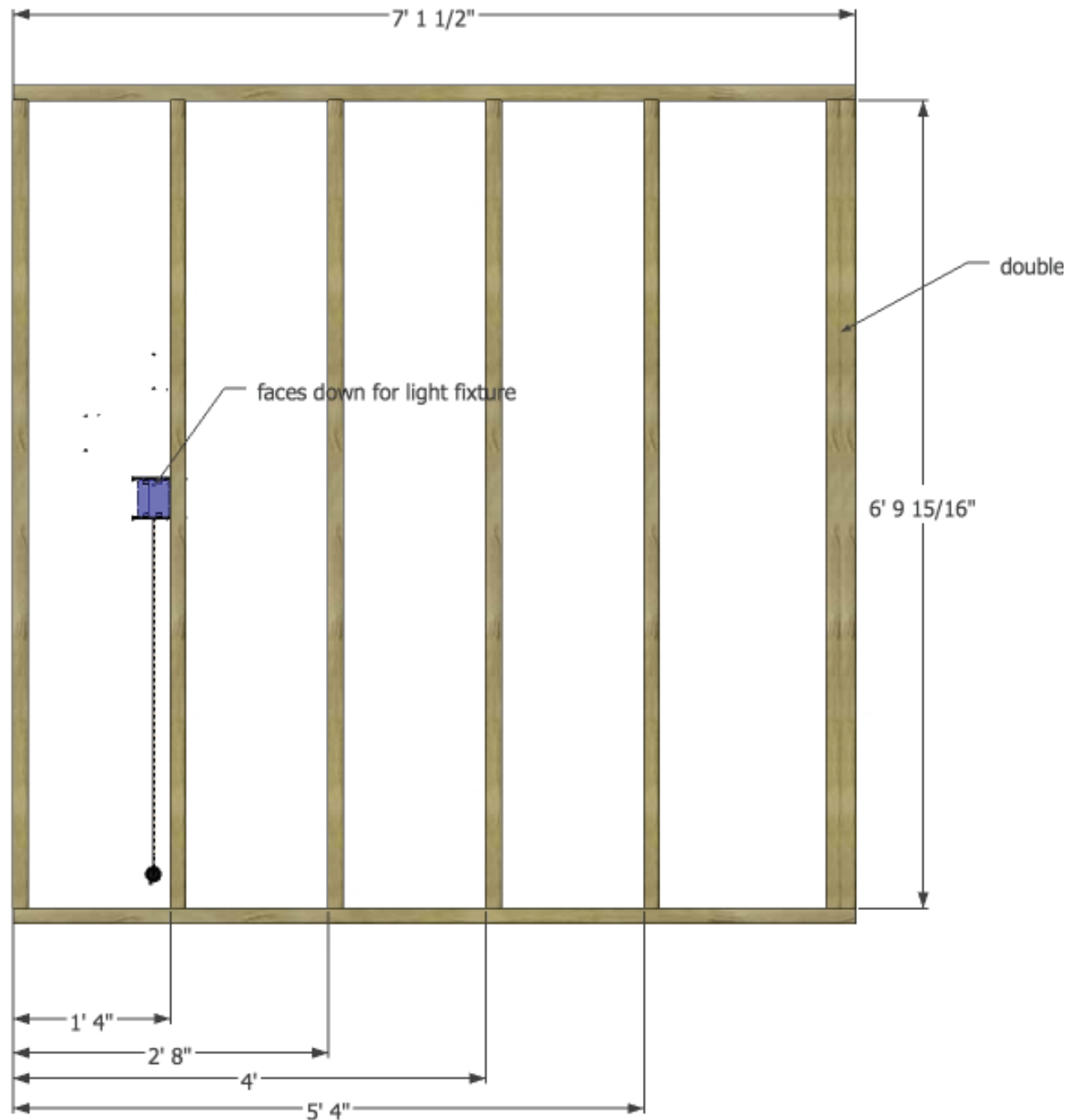
- 3 sheets of 1/2" plywood
- 5 2x6 @ 12'
- 6 2x6 @ 8'

- 2 6' pigtail
- 3 single-gang receptacle boxes
- 2 ceiling mount fixture boxes
- 2 receptacles
- 12-2 romex
- 12 wire-nuts

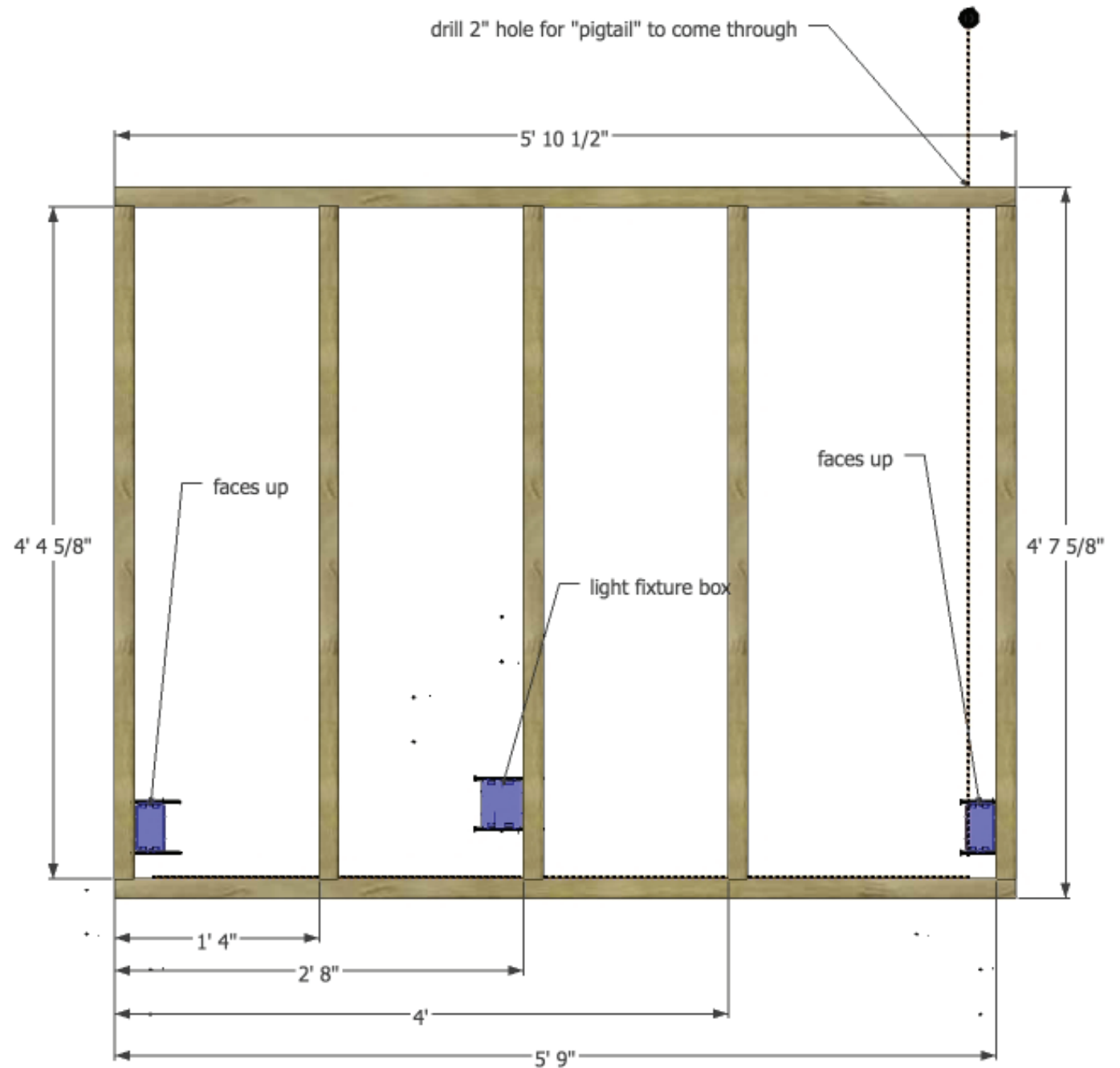
NOTES:

Dimensions of studs are to the long point unless otherwise stated.

Angles are 20 deg unless otherwise stated.



Loft Small Panel



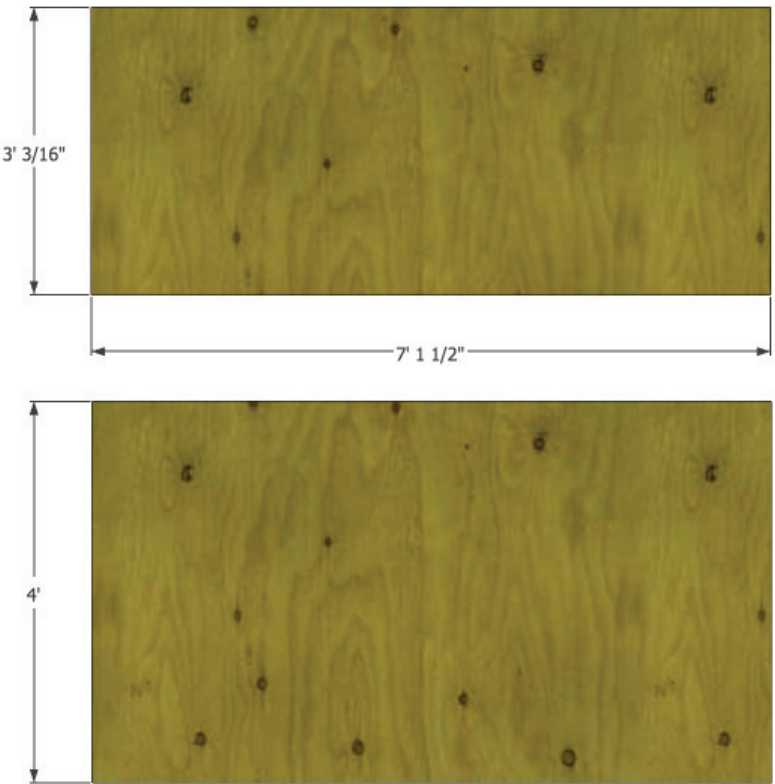
NOTES:

Dimensions of studs are to the long point unless otherwise stated.

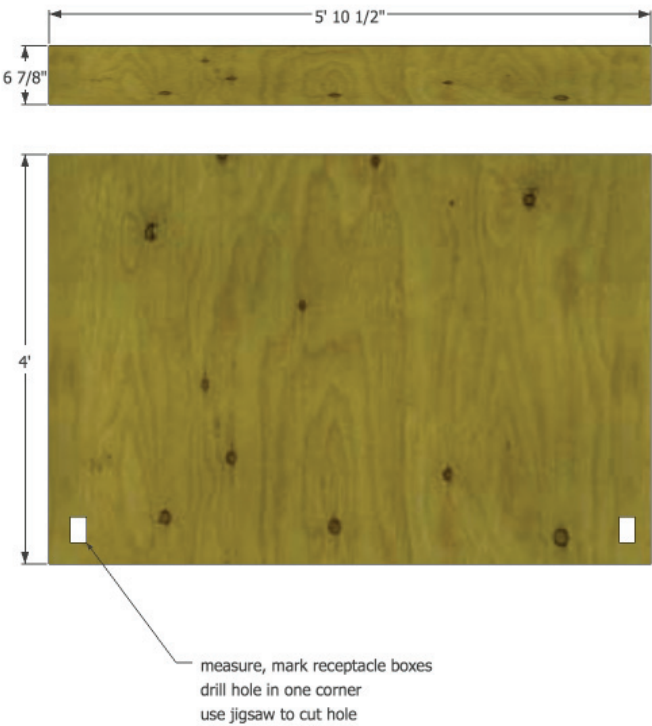
Angles are 20 deg unless otherwise stated.

Loft Plywood Pieces

Large Panel



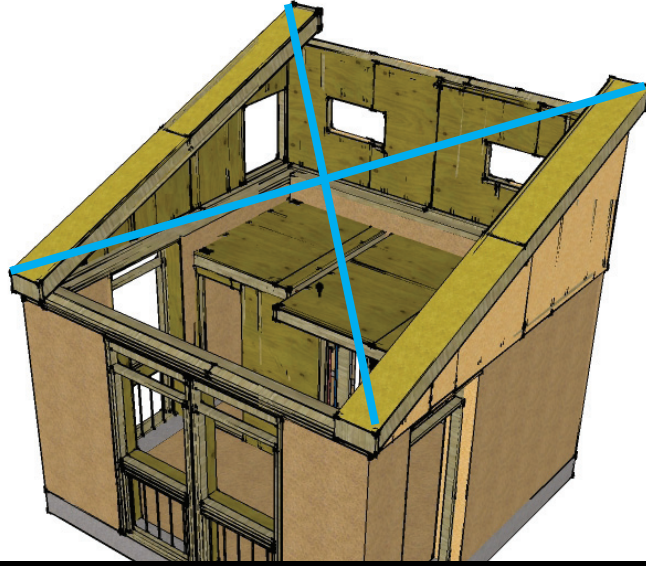
Small Panel



Roof Assembly (1 of 2)

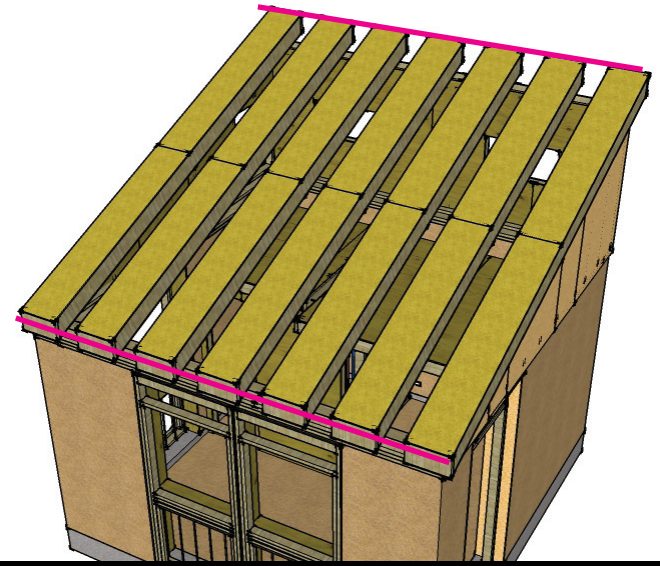
1

install side panels with about 4" overhang on outside edges
measure and even out diagonals



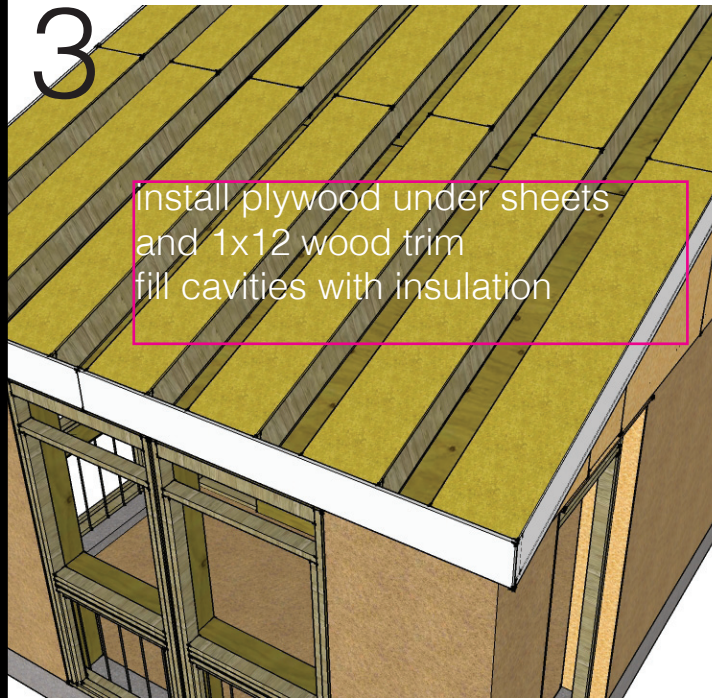
2

string lines across top and bottom
install other panels with about 10" space between panels



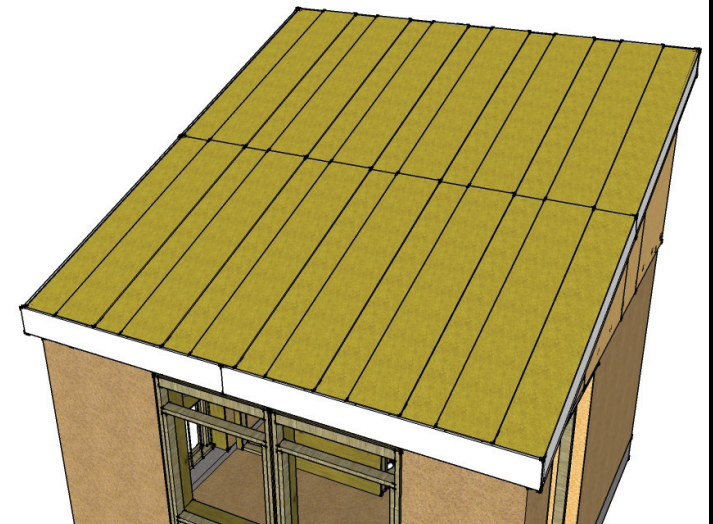
3

install plywood under sheets
and 1x12 wood trim
fill cavities with insulation

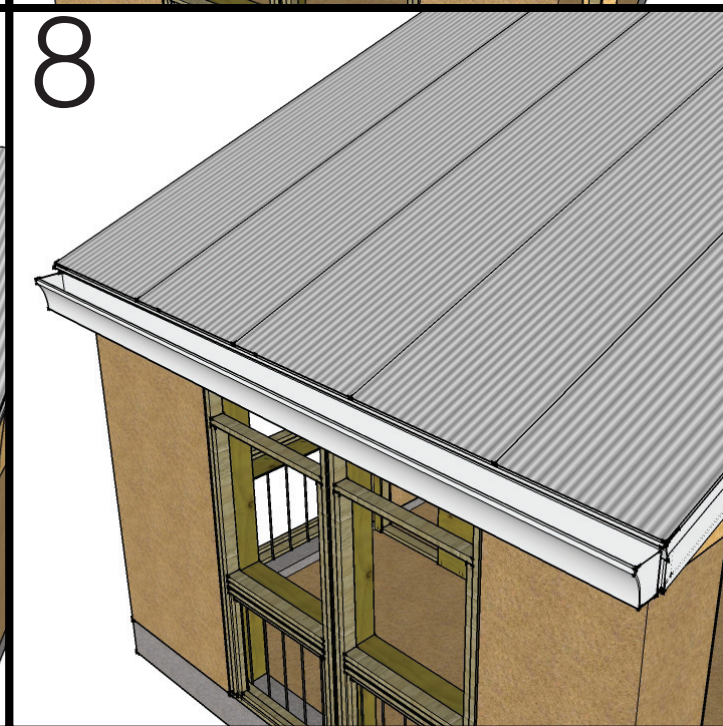
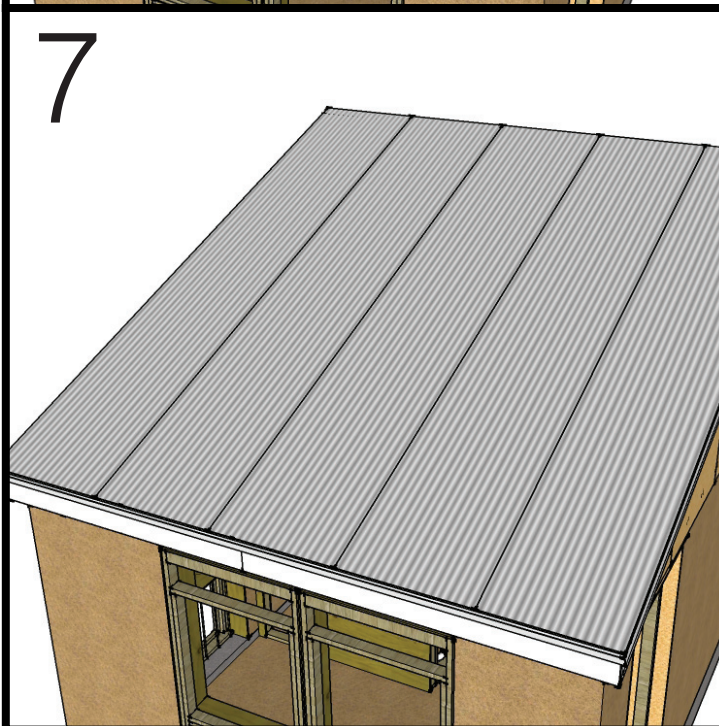
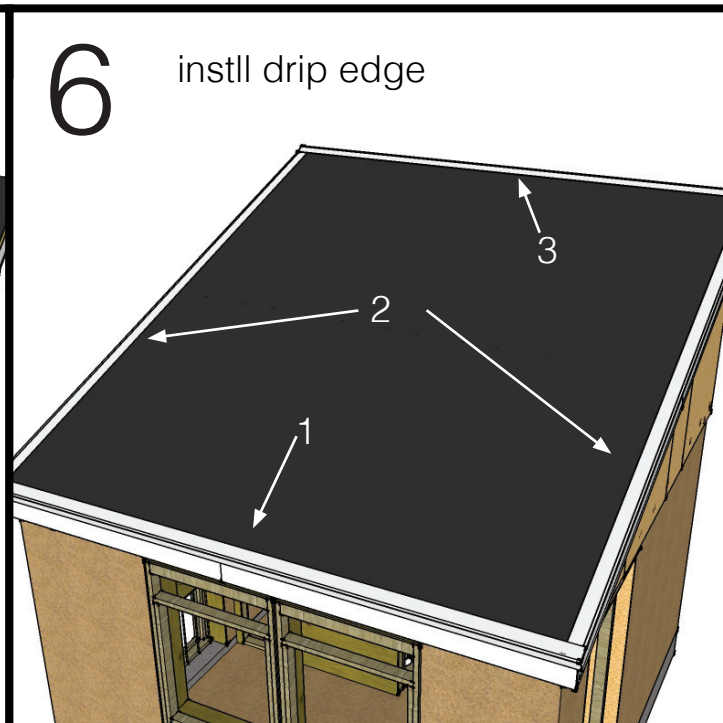
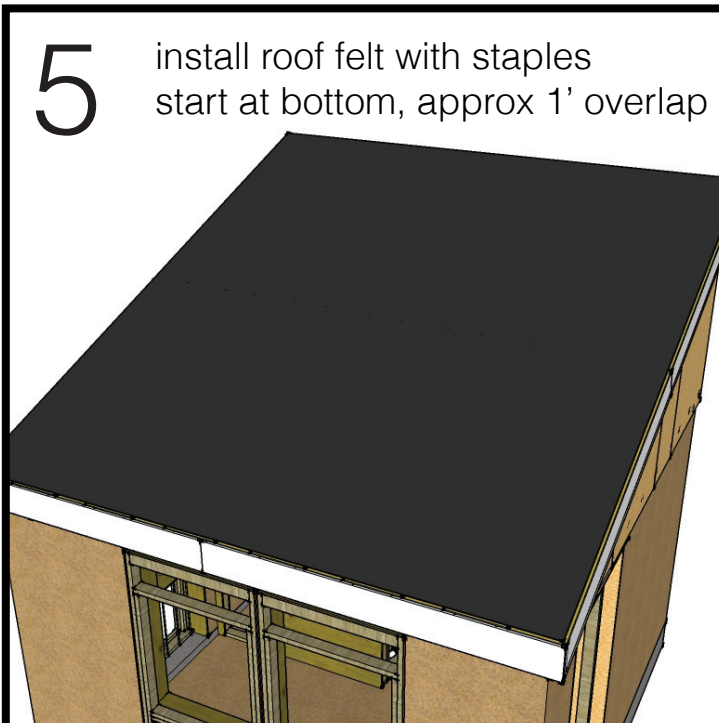


4

install OSB top sheets

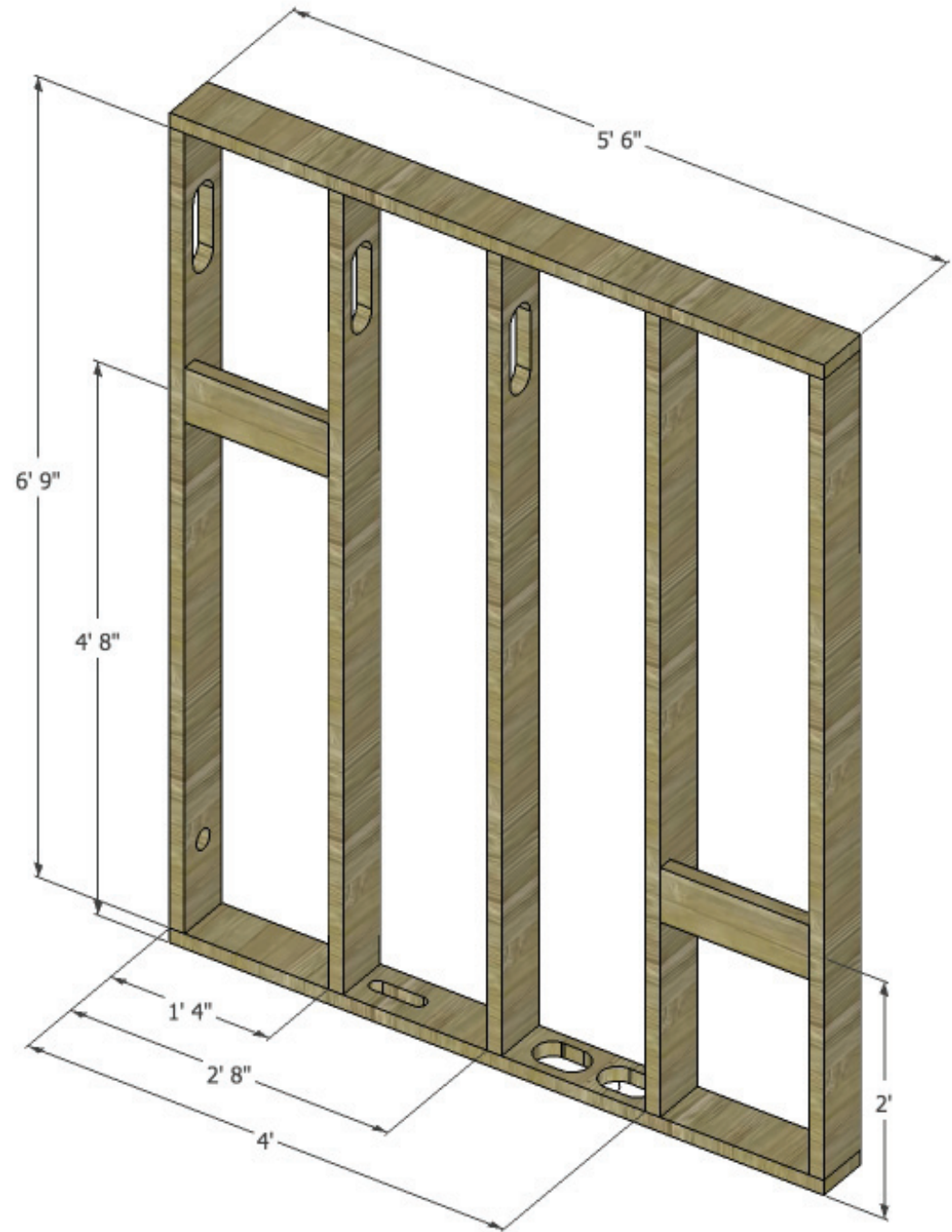


Roof Assembly (2 of 2)

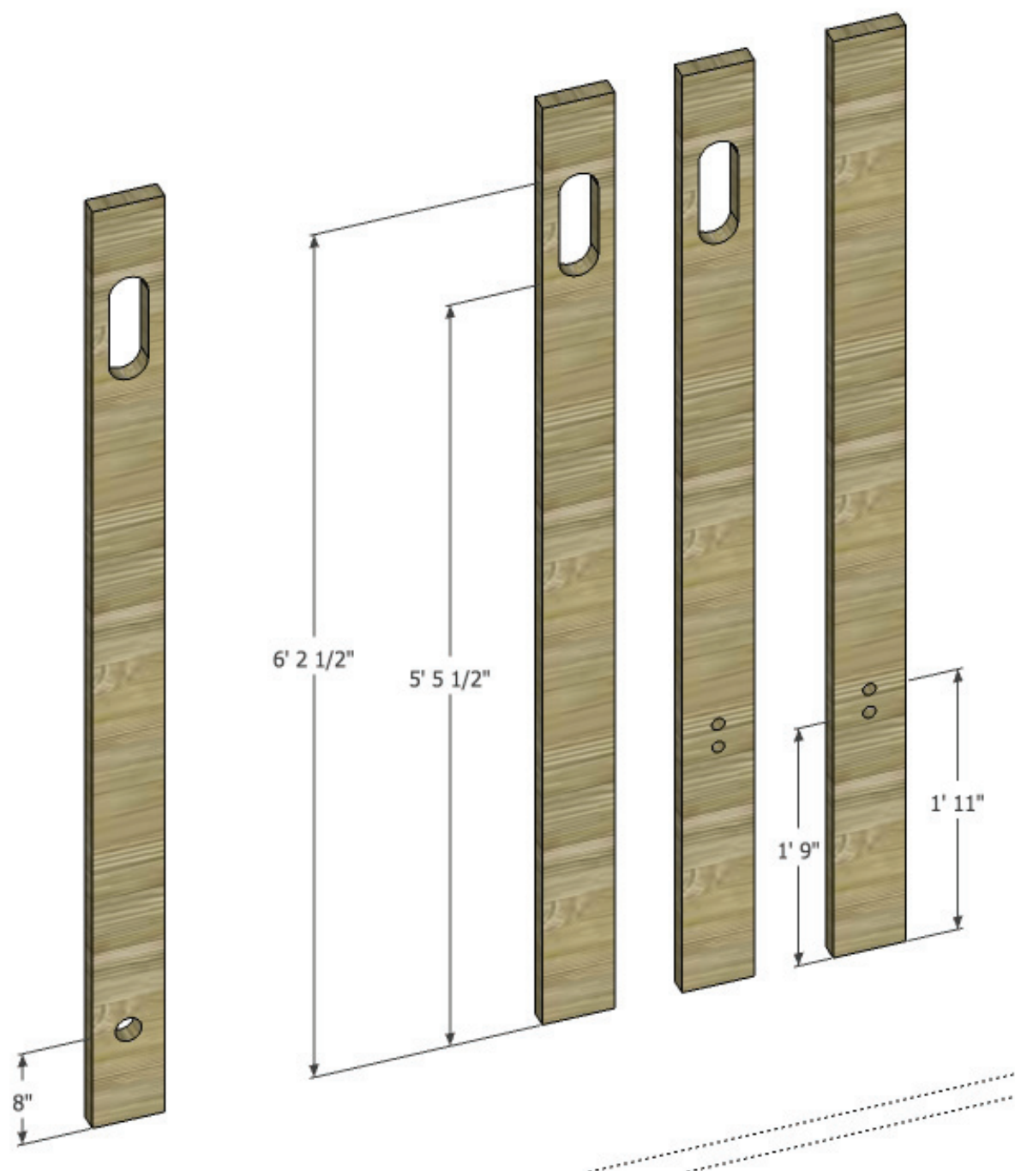


Utility Module Frame

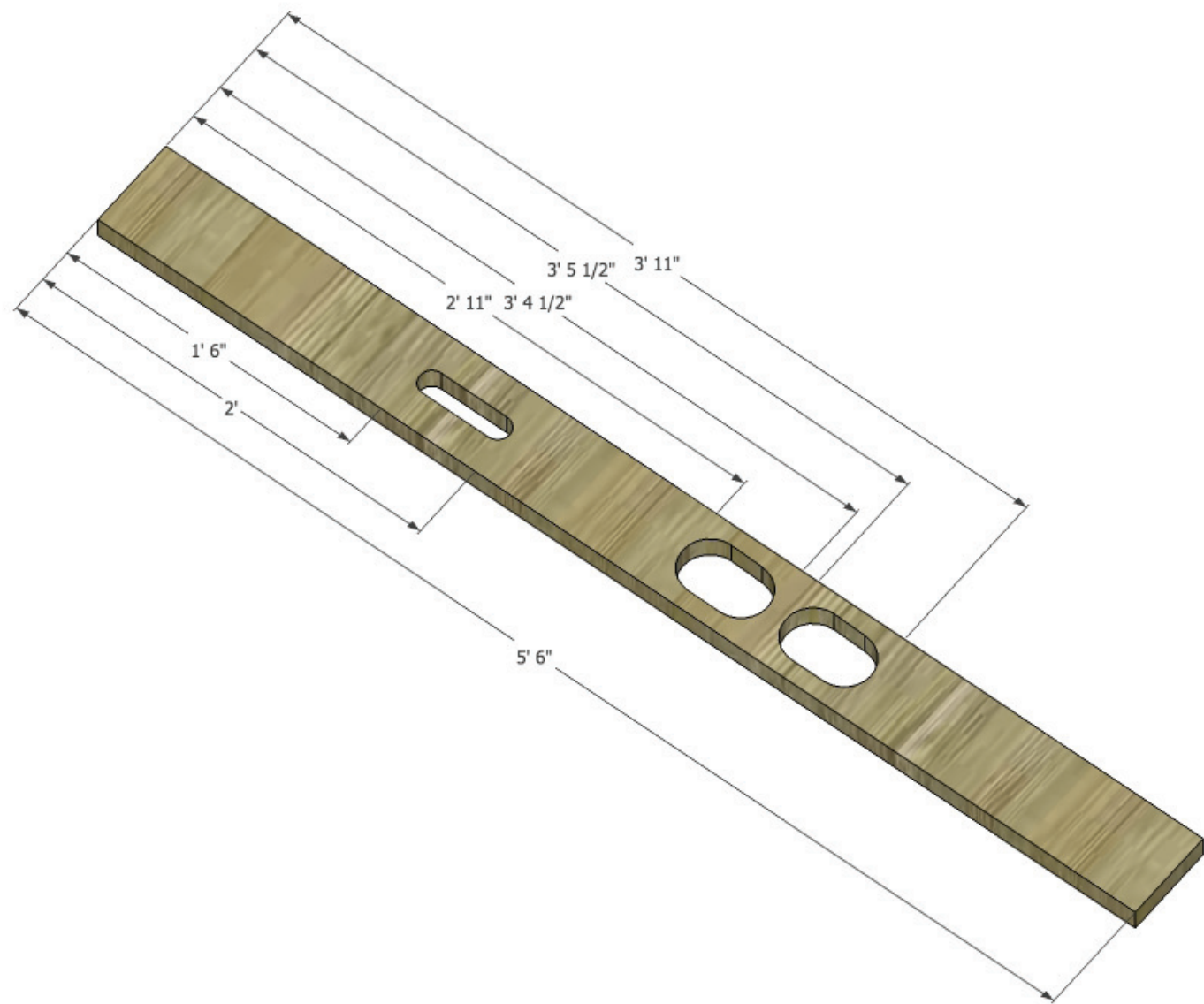
- 3 sheets of 1/2" plywood
- 7 2x6 @ 8'
- 6 2x6 @ 8'



Utility Module Studs



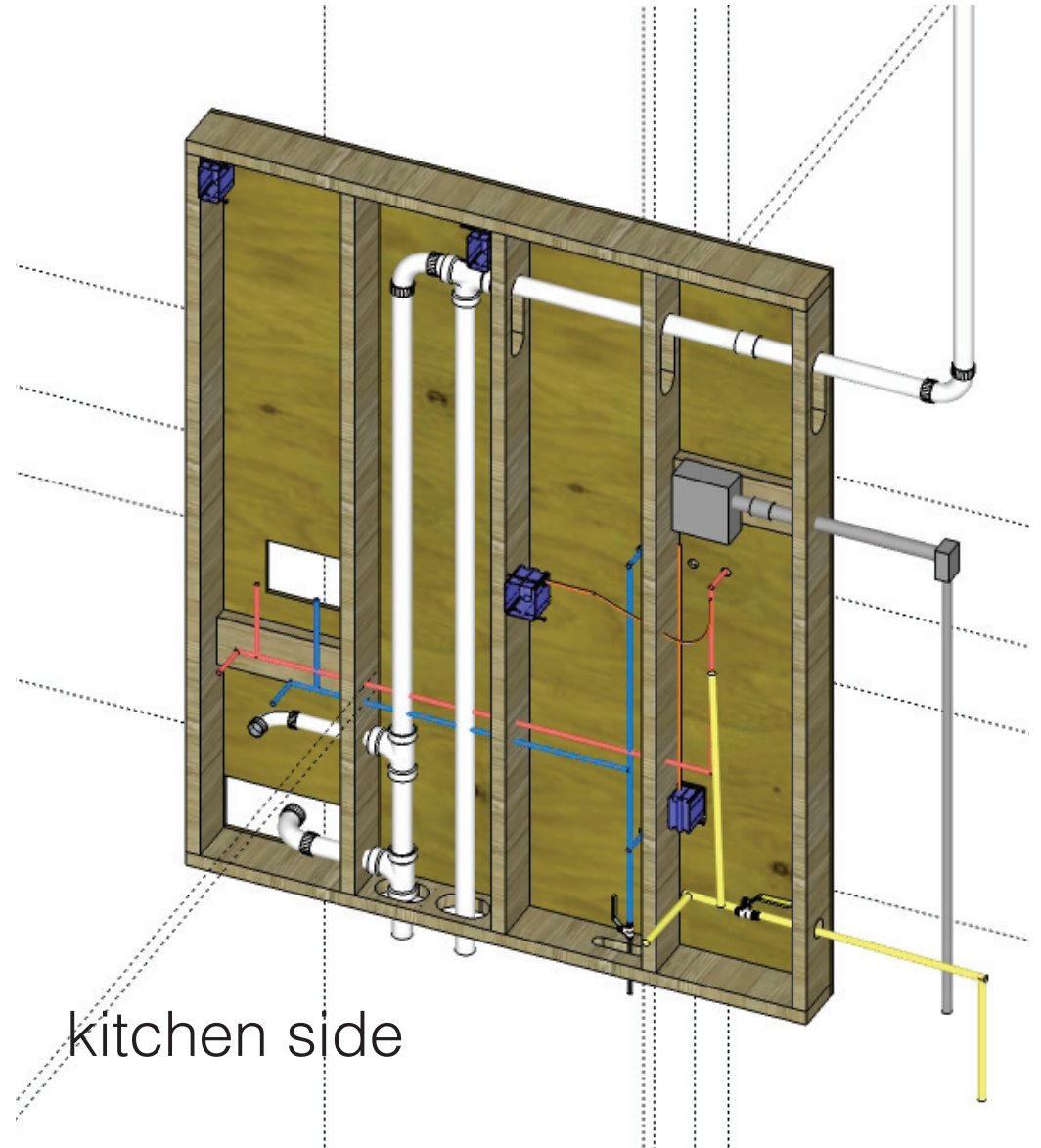
Utility Module Bottom Plate



Utility Module Bottom Plate



bathroom side



kitchen side

Door Partition Module

