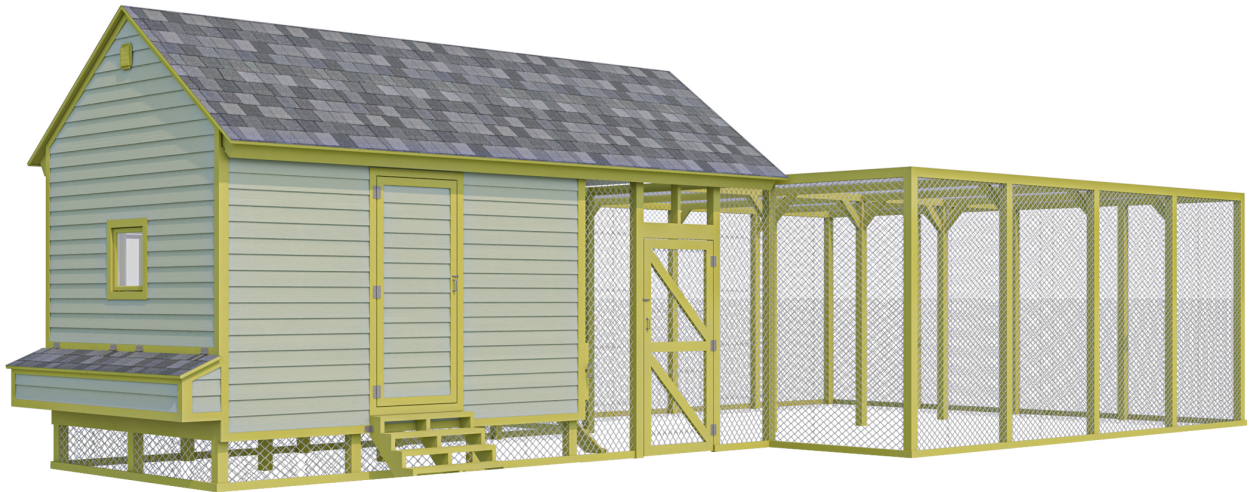




20'x40' Chicken Coop Plan

Up to 50 chickens



Compare Free vs. Premium plan

| | Free plan | Premium edition |
|----------------------------------|-----------|-----------------|
| Pages | 22 | 81 |
| Illustrations for Each Step | ✓ | ✓ |
| Print Ready | ✓ | ✓ |
| Step By Step Instructions | ✓ | ✓ |
| Full Materials and Cuttings List | ✗ | ✓ |
| Additional Illustrations | ✗ | ✓ |
| Additional Blueprints | ✗ | ✓ |
| Tools List | ✗ | ✓ |
| Fastening Elements List | ✗ | ✓ |
| Technical Support | ✗ | ✓ |

[TRY PREMIUM](#)

20'x40' chicken coop material list

Site Preparation

- Concrete
- Bricks

Bottom Frame

- Pressure-Treated Lumber
- Plywood

Walls Frames

- Pressure-Treated Lumber

Shed's Roof

- Pressure-Treated Lumber
- Pressure-Treated Board
- Plywood
- Building paper
- Asphalt shingles
- Metal drip edge

Front/Side Shed's Window

- Pressure-Treated Lumber
- Window beading
- Glass

Walls Exterior Siding

- Pressure-Treated Lumber
- Wood siding boards

Top Frame

- Pressure-Treated Lumber

Fasteners & Hardware

- Corner braces
- Galvanized nails
- Wood screws

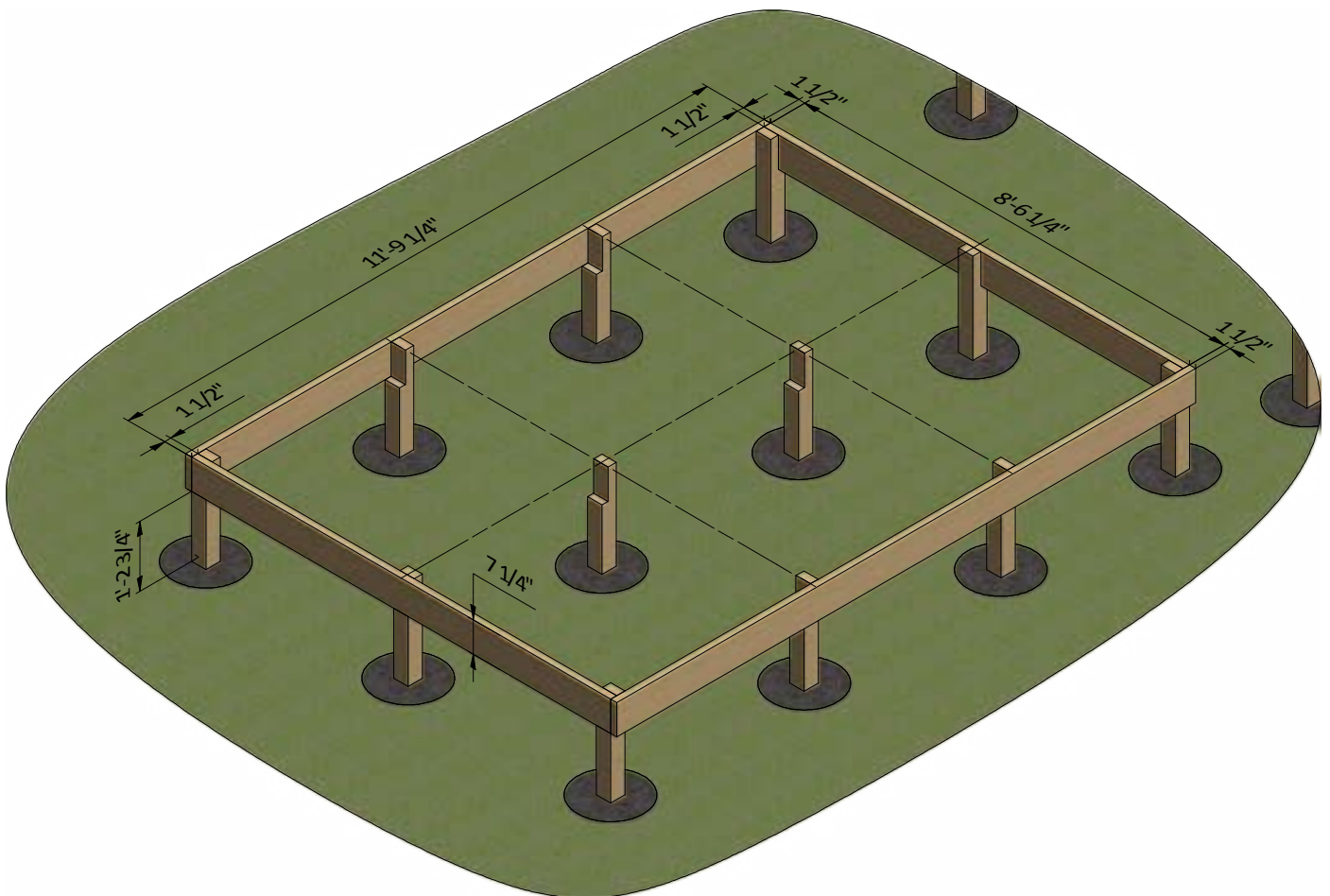
STEP 1

Framing the Coop's Floor

1.1 Assemble the frame using 1 1/2" x 7 1/4" pressure-treated lumber. You will need two boards cut to 11'-9 1/4" that will be the rim joists and two boards cut to 8'-6 1/4" that will be the joists.

1.2 Secure the beams with 3" wood screws.

1.3 Using a speed square or carpenter's square, check the corners to make sure they are 90°.



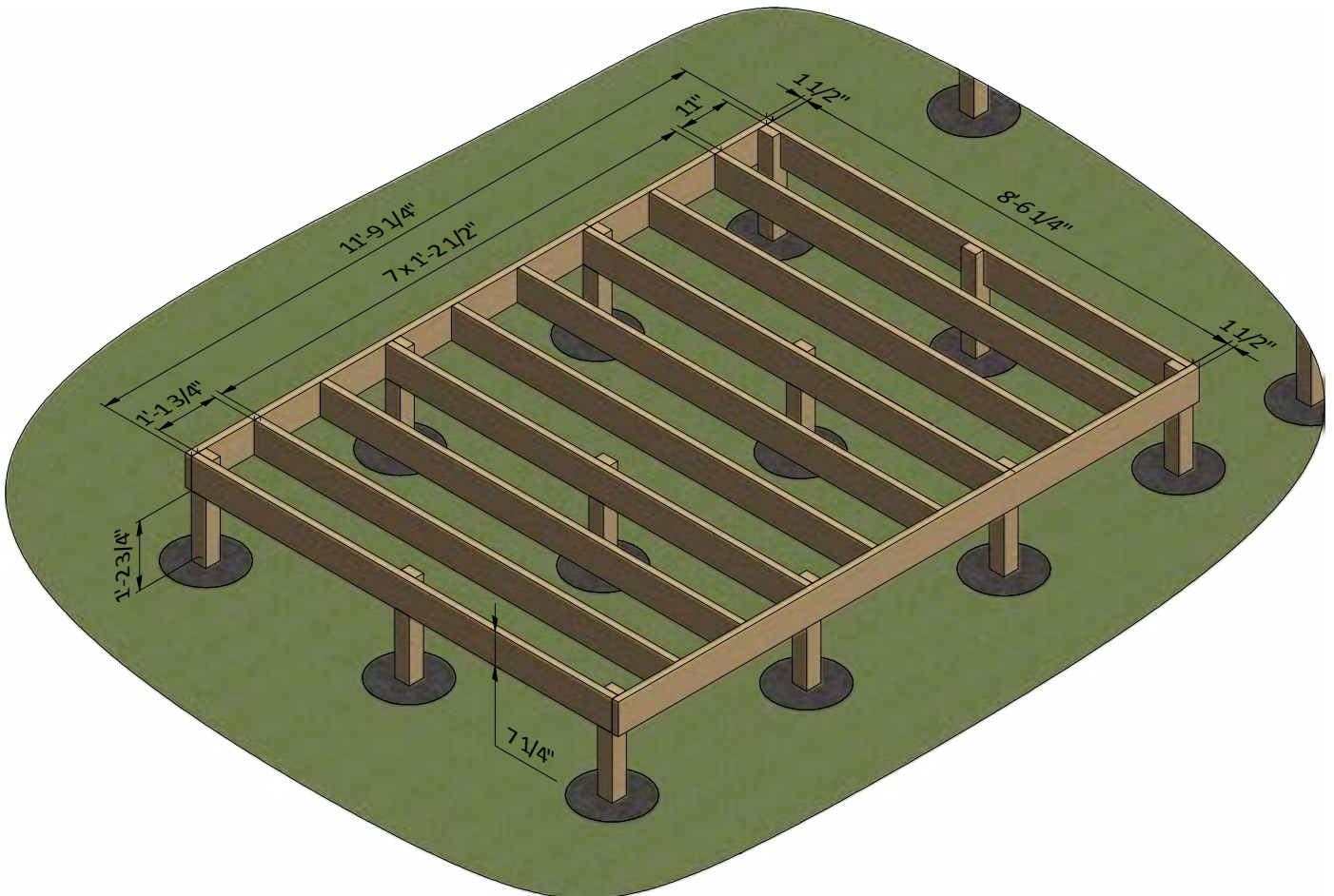
STEP 2

Framing the Floor

2.1 Assemble the frame using 1 1/2" x 7 1/4" pressure-treated lumber. You will need eight boards cut to 8'-6 1/4" that will be the joist.

2.2 Secure the beams with 3" wood screws.

2.3 Using a speed square or carpenter's square, check the corners to make sure they are 90°.



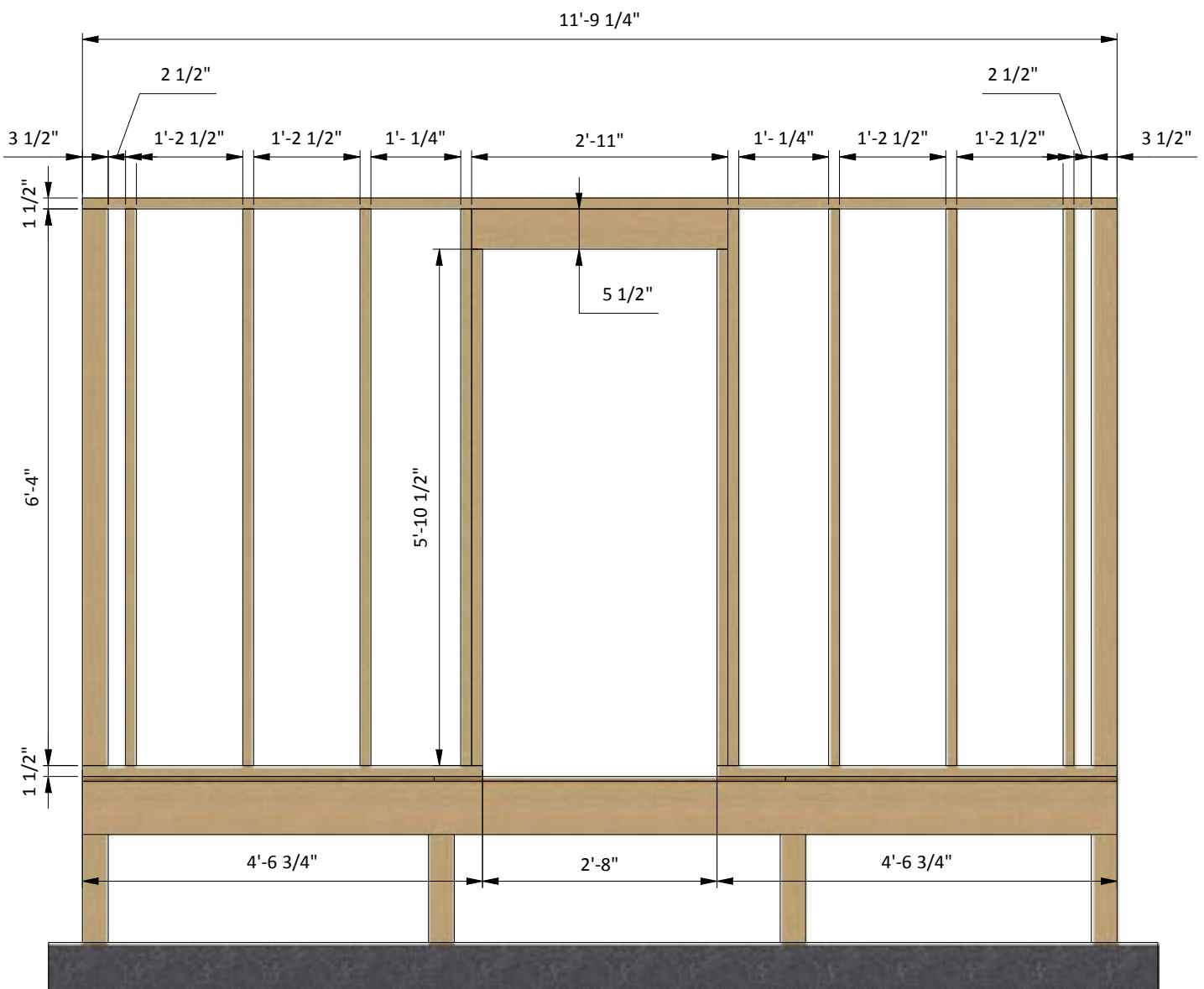
STEP 3

Assemble Front Wall Frame

3.1 Using 1 1/2" x 3 1/2", 1 1/2" x 5 1/2" and 3 1/2" x 3 1/2" pressure-treated lumber, construct front wall frame using the drawing below as a reference. You will need ten boards cut to 6'-4" and two boards cut to 5'-10 1/2" that will be studs, two boards cut to 4'-6 3/4" that will be the bottom beams, one board cut to 11'-9 1/4" that will be the top beam and two boards cut to 2'-11" that will be the door header.

3.2 Connect the beams with 3" wood screws.

3.3 Using a speed square or carpenter's square, check the corners to make sure they are 90°.



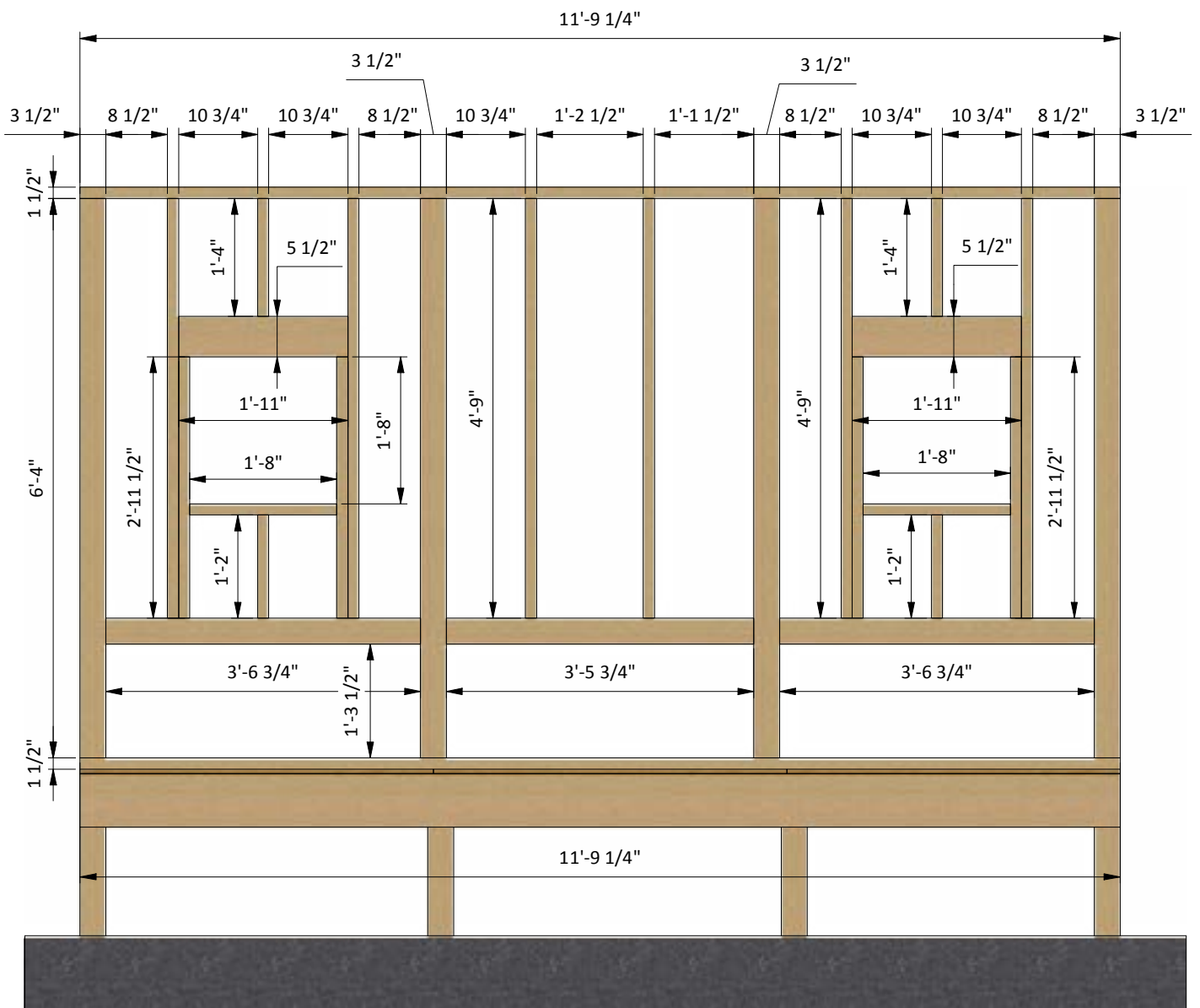
STEP 4

Assemble Back Wall Frame

4.1 Using 1 1/2" x 3 1/2", 1 1/2" x 5 1/2" and 3 1/2" x 3 1/2" pressure-treated lumber, construct back wall frame using the drawing below as a reference. You will need four boards cut to 6'-4", six boards cut to 4'-9", four boards cut to 2'-11 1/2" and two boards cut to 1'-2" that will be studs, one board cut to 11'-9 1/4", two boards cut to 3'-6 3/4" and one board cut to 3'-5 3/4" that will be the bottom beams, one board cut 11'-9 1/4" that will be the top beam, four boards cut to 1'-11" that will be the window headers, two boards cut to 1'-8" that will be rough sills and two boards cut to 1'-4" that will be cripple studs.

4.2 Connect the beams with 3" and 5" wood screws.

4.3 Using a speed square or carpenter's square, check the corners to make sure they are 90°.



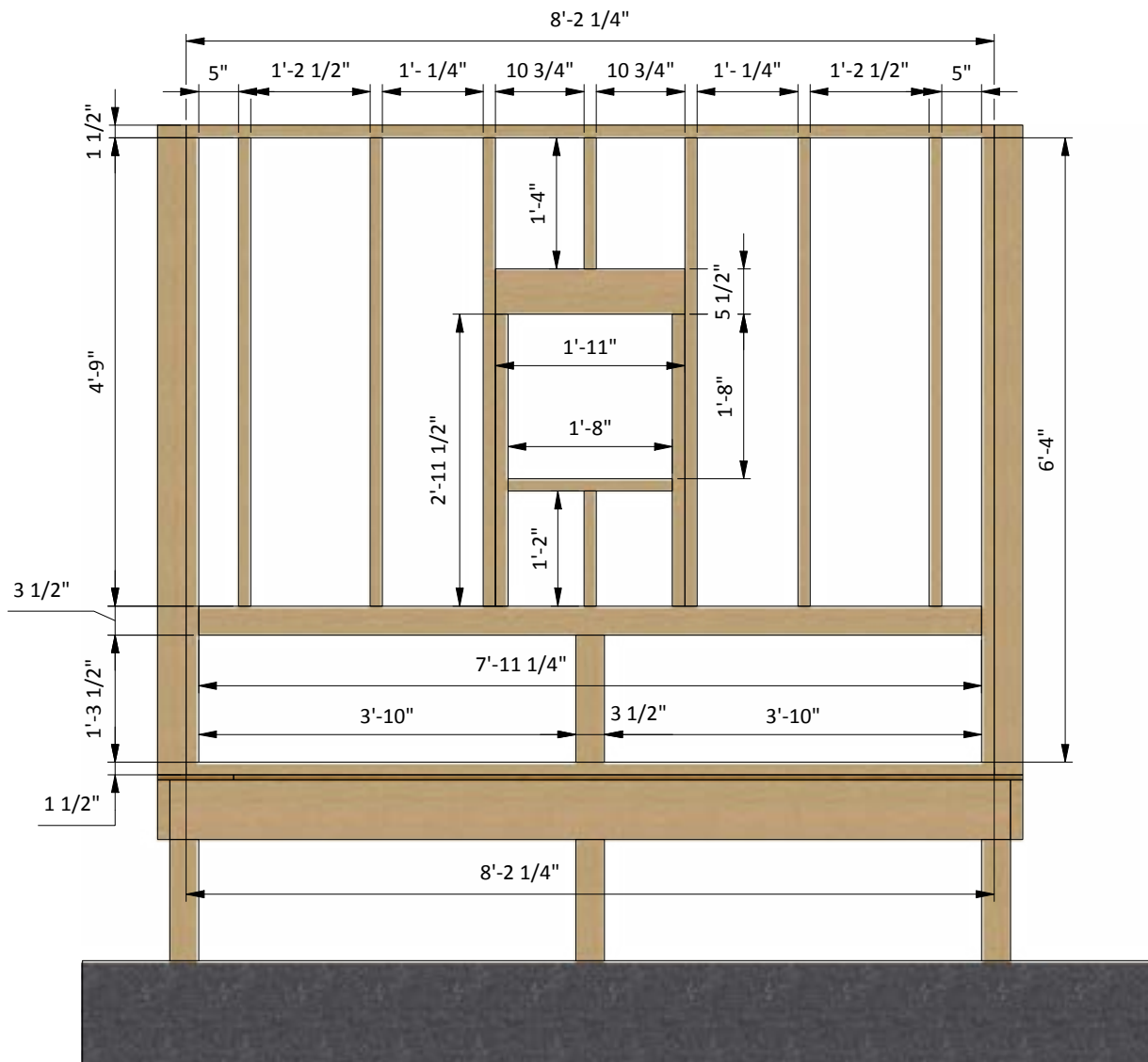
STEP 5

Assemble Left Side Wall Frame

5.1 Using 1 1/2" x 3 1/2", 1 1/2" x 5 1/2" and 3 1/2" x 3 1/2" pressure-treated lumber, construct left wall frame using the drawing below as a reference. You will need six boards cut to 4'-9", two boards cut to 6'-4", two boards cut to 2'-11 1/2", one board cut to 1'-3 1/2" and one board cut to 1'-2" that will be studs, one board cut to 8'-2 1/4" and one board cut to 7'-11 1/4" that will be the bottom beams, one board cut 8'-2 1/4" that will be the top beam, two boards cut to 1'-11" that will be the door header, one board cut to 1'-8" that will be rough sill and one board cut to 1'-4" that will be cripple stud.

5.2 Connect the beams with 3" and 5" wood screws.

5.3 Using a speed square or carpenter's square, check the corners to make sure they are 90°.



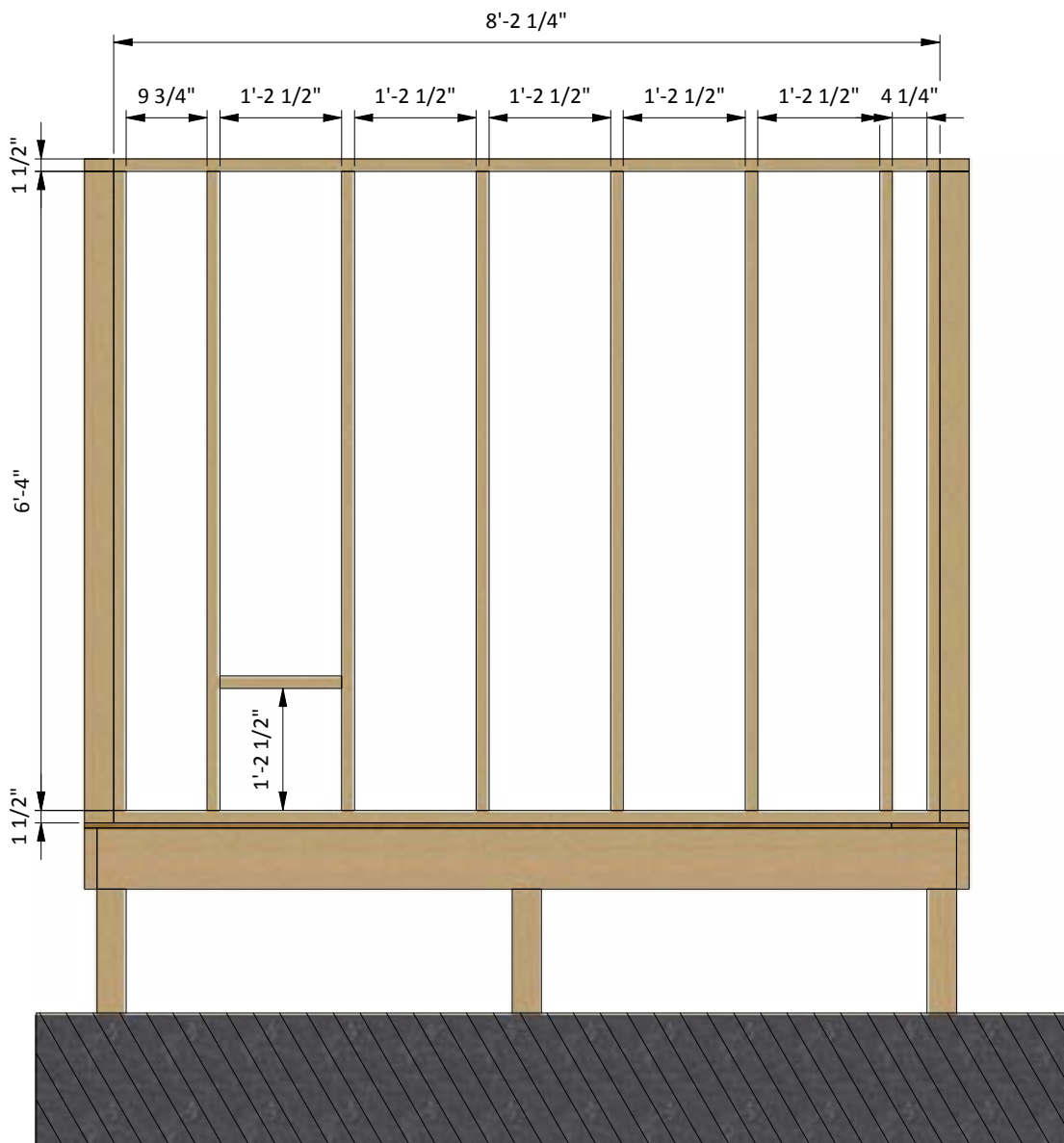
STEP 6

Assemble Right Side Wall Frame

6.1 Using 1 1/2" x 3 1/2" pressure-treated lumber, construct right side wall frame using the drawing below as a reference. You will need eight boards cut to 6'-4" that will be studs, one board cut to 1'-2 1/2" that will be chicken door header and two boards cut to 8'-2 1/4" that will be top and bottom beams.

6.2 Connect the beams with 3" and 5" wood screws.

6.3 Using a speed square or carpenter's square, check the corners to make sure they are 90°.



STEP 7

Assemble Aviary's Top Frame

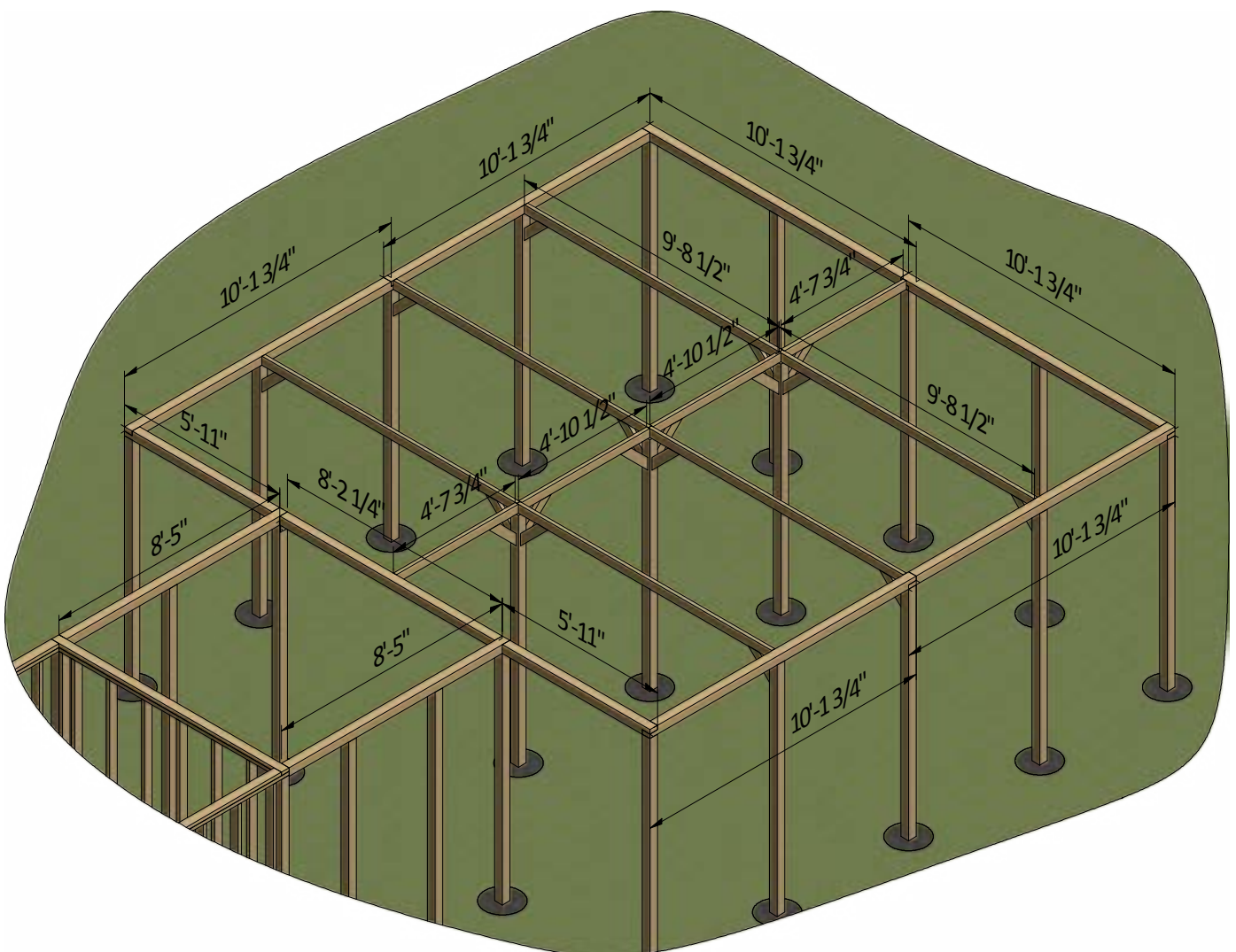
7.1 Using and 3 1/2" x 3 1/2" pressure-treated lumber, provide the main top frame for aviary using the drawing below as a reference. You will need two boards cut to 8'-5", two boards cut to 5'-11", one board cut to 8'-2 1/4" and six boards cut to 10'-1 3/4".

7.2 Using 1 1/2" x 3 1/2" pressure-treated lumber, provide the inner frame for aviary using the drawing below as a reference. You will need six boards cut to 9'-8 1/2", two boards cut to 4'-7 3/4" and two boards cut to 4'-10 1/2".

7.3 Using 1 1/2" x 3 1/2" pressure-treated lumber, provide the cross braces using the drawing below as a reference. You will need eighteen boards cut to 1'-5 1/2" (node B on page 28). Cut the corners in 45 degrees to fit studs and top beams.

7.4 To connect 8'-5" beams to the coop's frame and for connection of 8'-2 1/4" beam from both sides use 3"x3" corner braces (node D on page 28). To connect other top beams between themselves use half lap connection (nodes B, C on page 28).

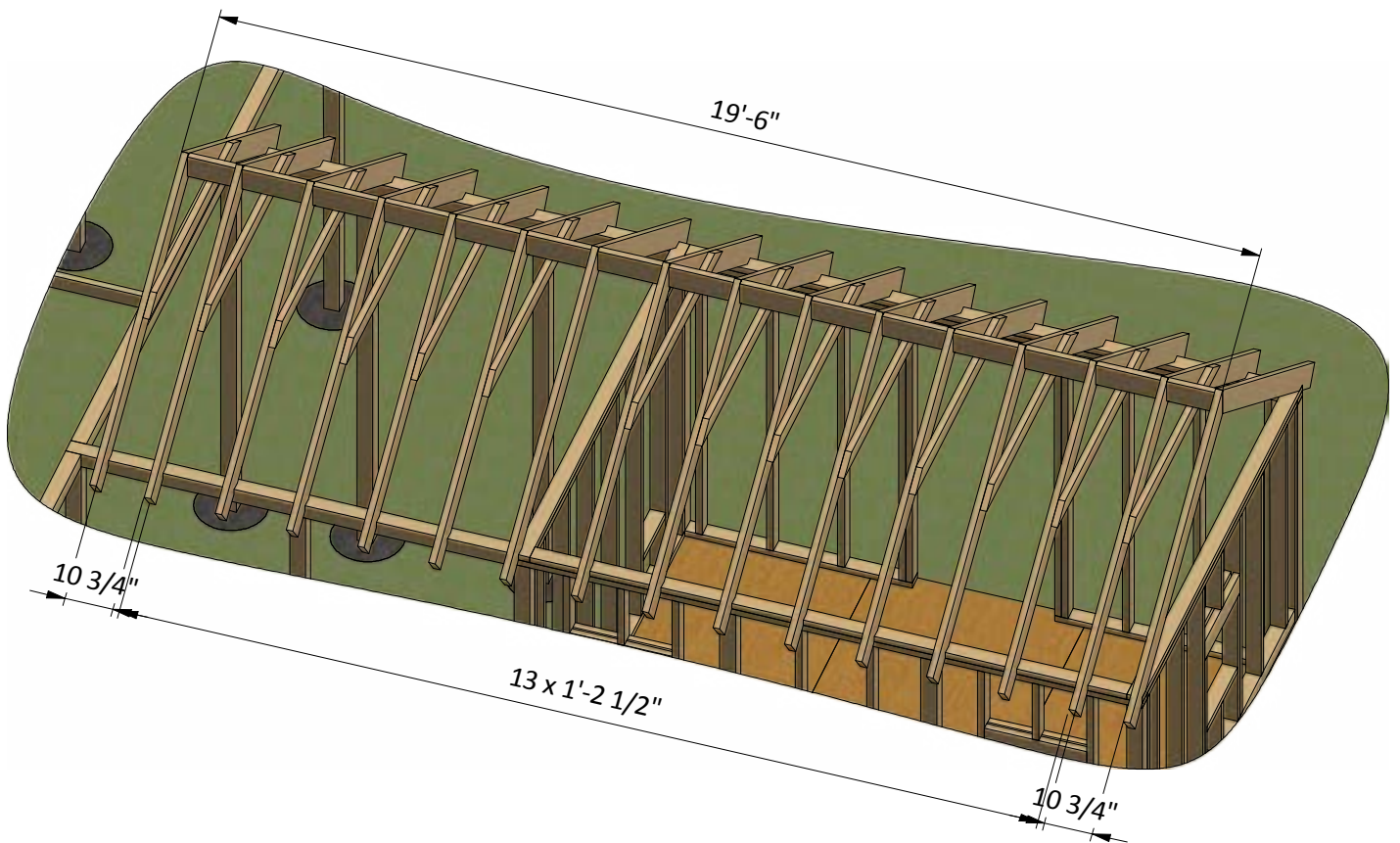
7.5 Connect the beams with 5" wood screws.



STEP 8

Assemble the Roof Frame

- 8.1** Using 1 1/2" x 5 1/2" pressure-treated lumber, cut thirty two rafters 6'-2 3/4" long according to the dimensions in drawings below.
- 8.2** Using 1 1/2" x 3 1/2" pressure-treated lumber, cut fourteen collar ties 5' long according to the dimensions in drawings below.
- 8.3** Using 1 1/2" x 5 1/2" pressure-treated board cut two boards 10 3/4" long and thirteen boards cut to 1'-2 1/2" long that will be ridge boards according the illustration below.
- 8.4** Connect the beams with 3" and 5" wood screws.

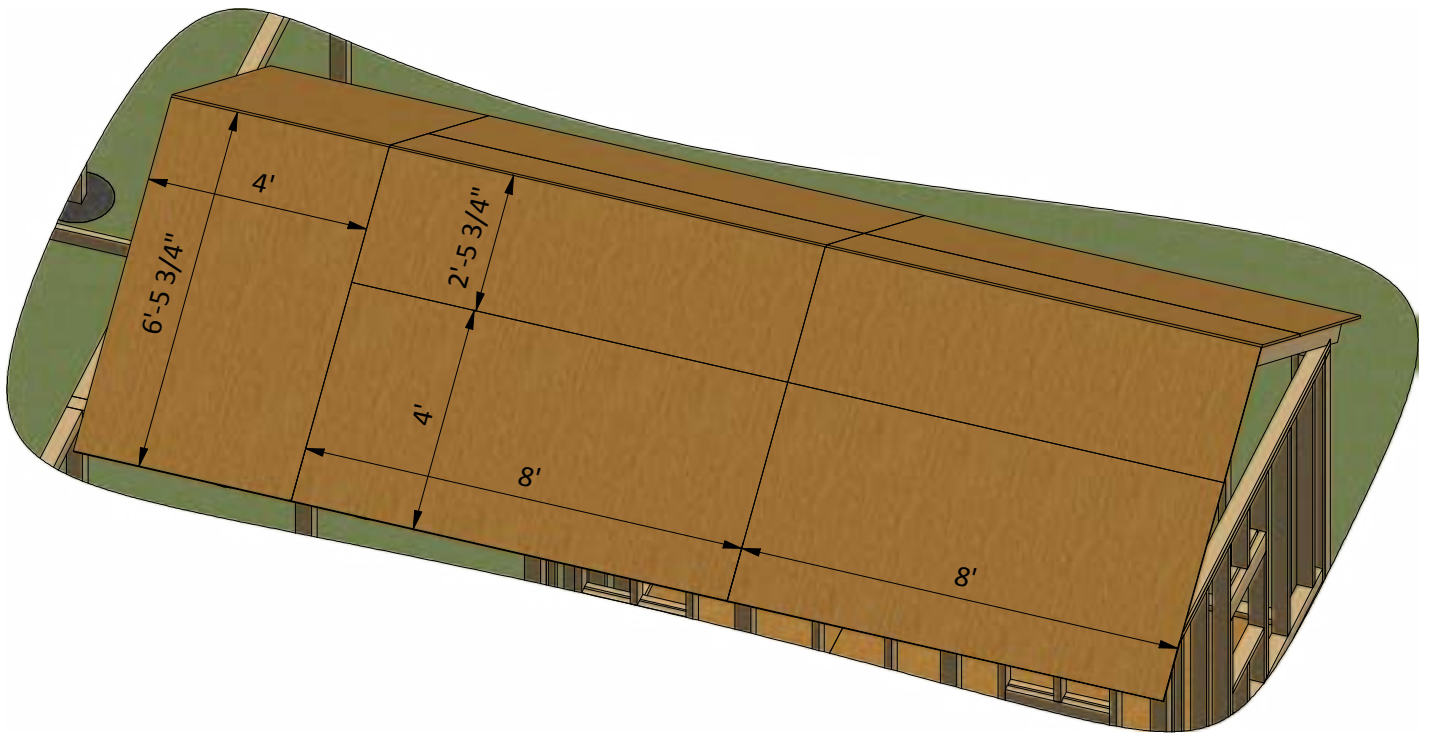


STEP 9

Install Plywood for the Roof

9.1 Cut sheets of 5/8" plywood for the roof sheathing using the drawing below as a guide. You will need two 4' x 6'-5 3/4" sheets, four 4' x 8" sheets and four 2'-5 3/4" x 8" sheets.

9.2 Secure the plywood with 2" wood screws.

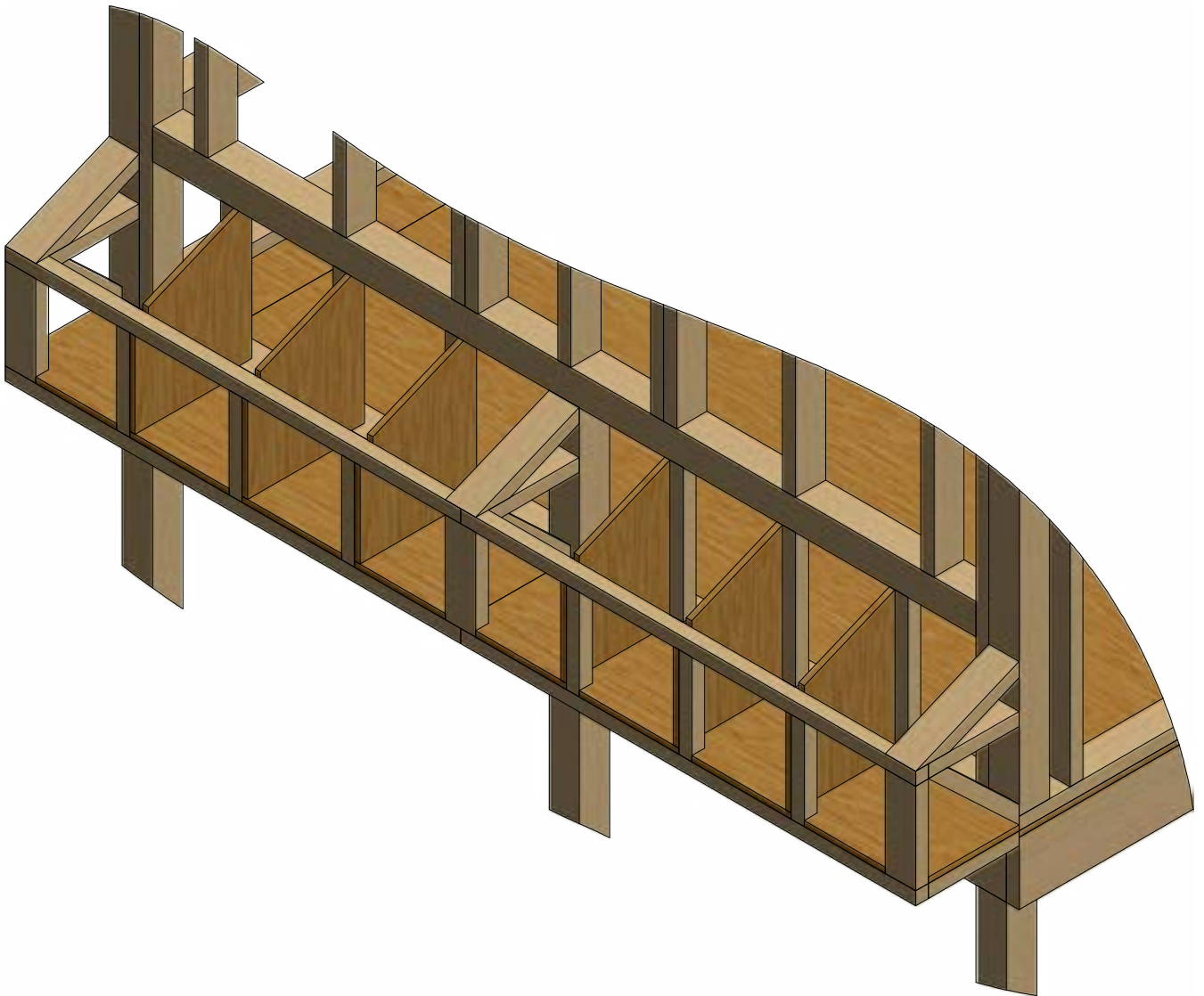


STEP 10

Install Plywood for the Left Wall Nesting Box

10.1 Cut sheet of 5/8" plywood for the nesting box sheathing using the drawing below as a guide. You will need two 1' x 4'-4 3/4" sheets for the floor and six 1'-1 1/2" x 1'-4 1/2" sheets for inner partitions.

10.2 Secure the plywood with 1" wood screws.

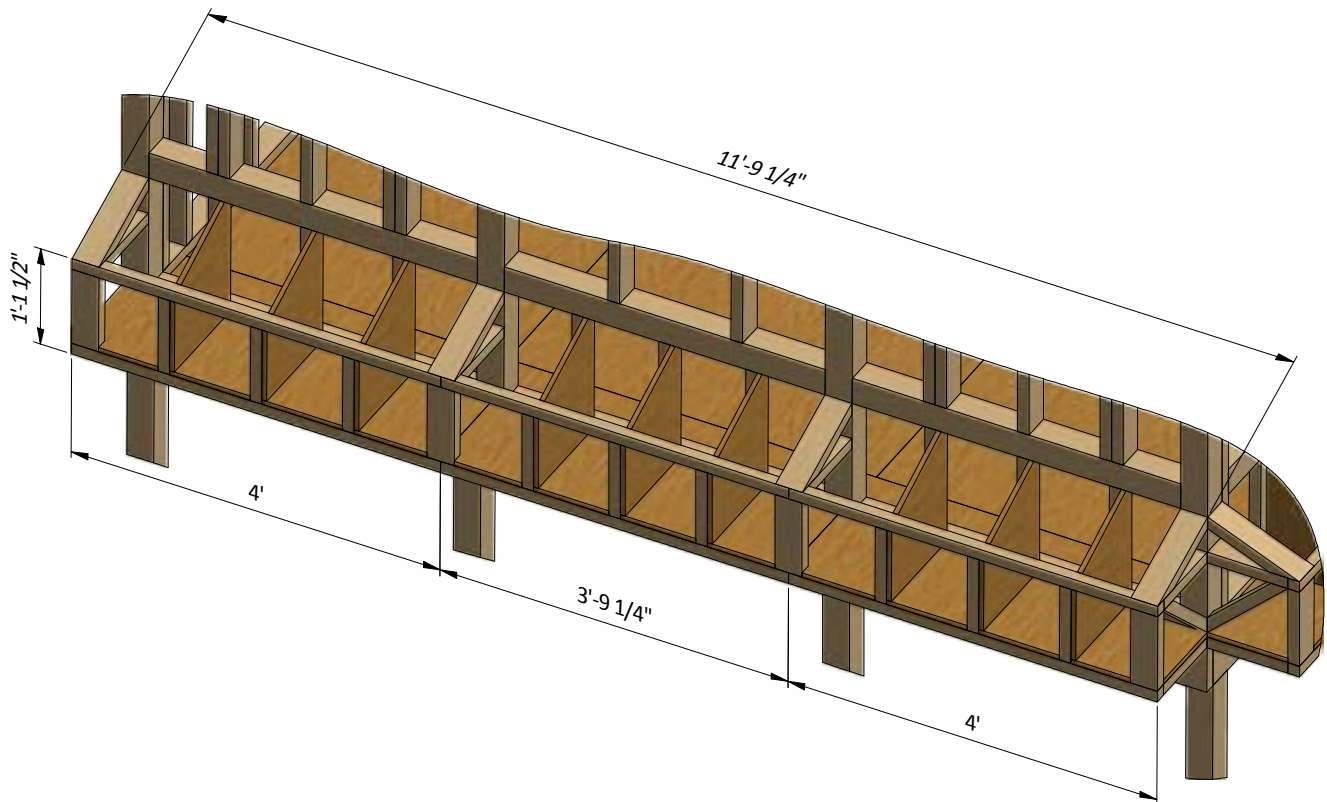


STEP 11

Install Plywood for the Back Wall Nesting Box

11.1 Cut sheet of 5/8" plywood for the nesting box sheathing using the drawing below as a guide. You will need two 1' x 4' sheets and one 1' x 3'-9 1/4" sheet for the floor and nine 1'- 1 1/2" x 1'-4 1/2" sheets for inner partitions.

11.2 Secure the plywood with 1" wood screws.



STEP 12

Assemble and Install Front Door

12.1 Build the door frame using 3/4" x 3 1/2" pressure-treated lumber.

You will need two boards cut to 5'-11 1/2" that will be the vertical girts, two boards cut to 2'-1/2" that will be the horizontal girts and one board cut to 5'-9" that will be cross brace.

12.2 Prepare the 5/8" plywood sheet with dimensions 2'-7 1/2" x 5'-11 1/2" for the door according to the drawing.

12.3 Use 3/4" x 2 1/2" pressure-treated lumber for the door trim and fasten with 2" wood screws.

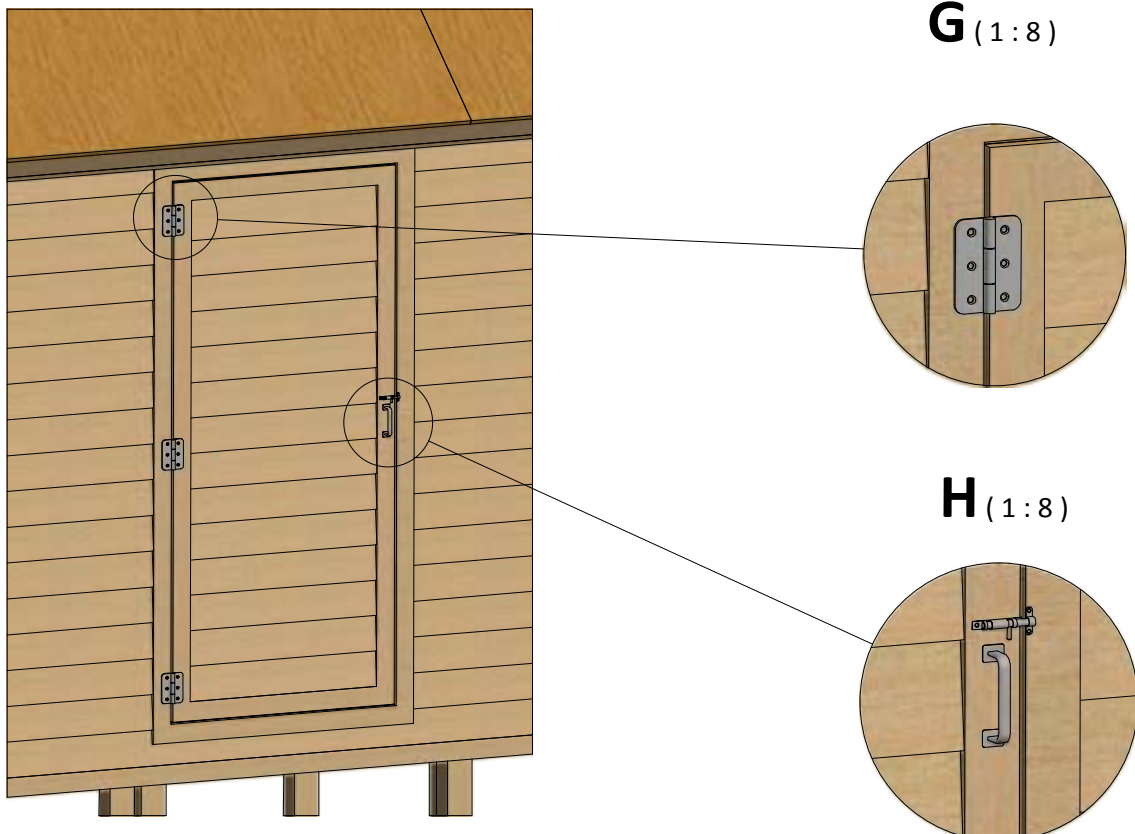
You will need two boards cut to 2'-2 1/2" and two boards cut to 5'-11 1/2".

12.4 Using 1/4" x 3/4" pressure-treated lumber, cut and install a starter course 2'-2 1/2" long using node E on page 47 as a reference.

12.5 For the exterior siding on the door, use 1/2" x 6" wood siding boards and the illustration below as a reference. Assemble siding shields with 2" galvanized nails.

12.6 Install three 3" door hinges using 6x1" wood screws.

Finish the door installation by attaching 6" door pull and 3" surface bolt (see nodes **G**, **H**).



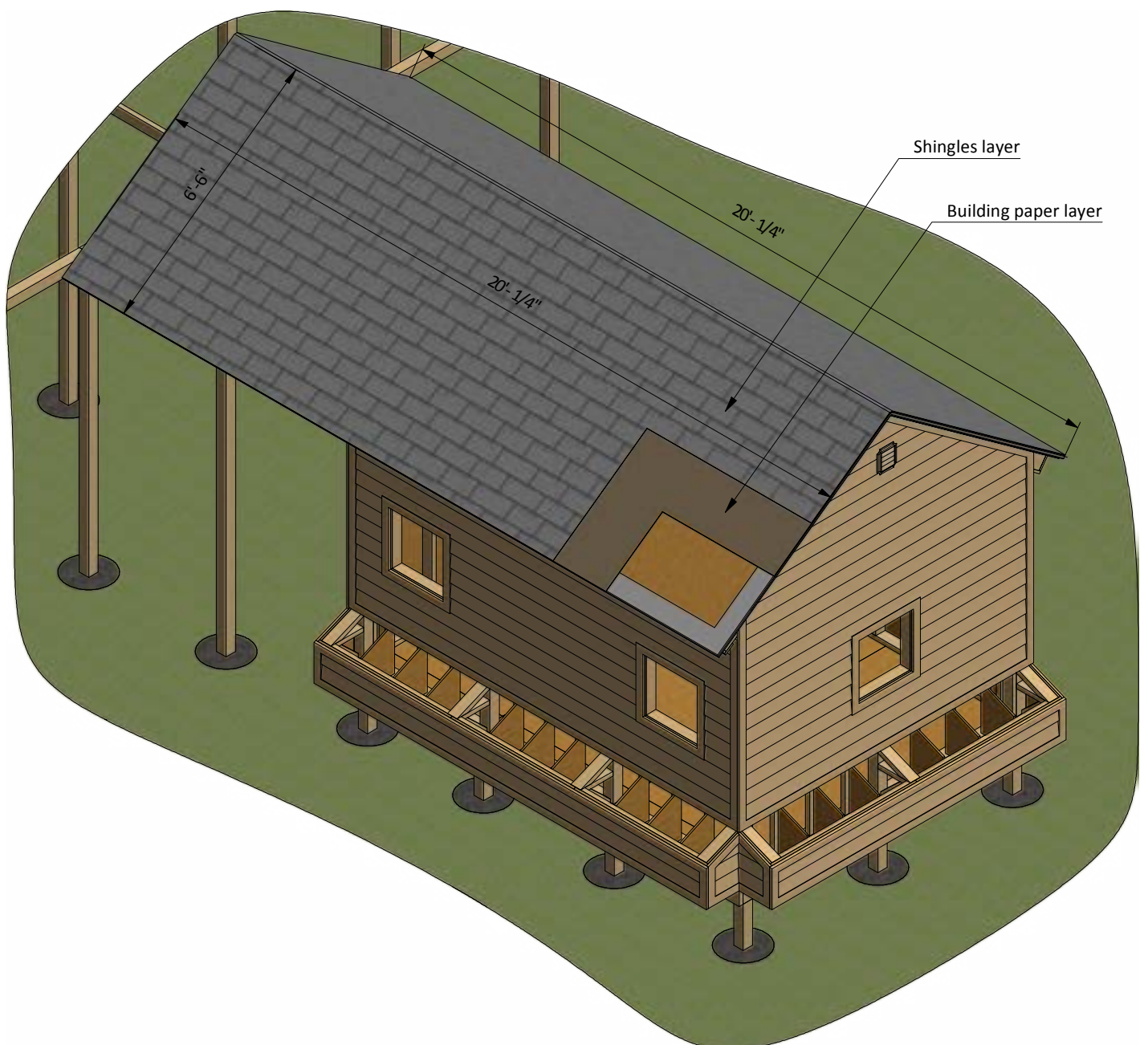
STEP 13

Coop's Roof Sheathing Installation

13.1 You will need 265 Sq Ft of building paper and asphalt shingle roofing.

13.2 Cover the plywood and drip edge with building paper. Try to install sheets with 1" overlapping. Use 2" nails to secure the sheets.

13.3 Install asphalt shingle roofing using an industrial stapler.



STEP 14

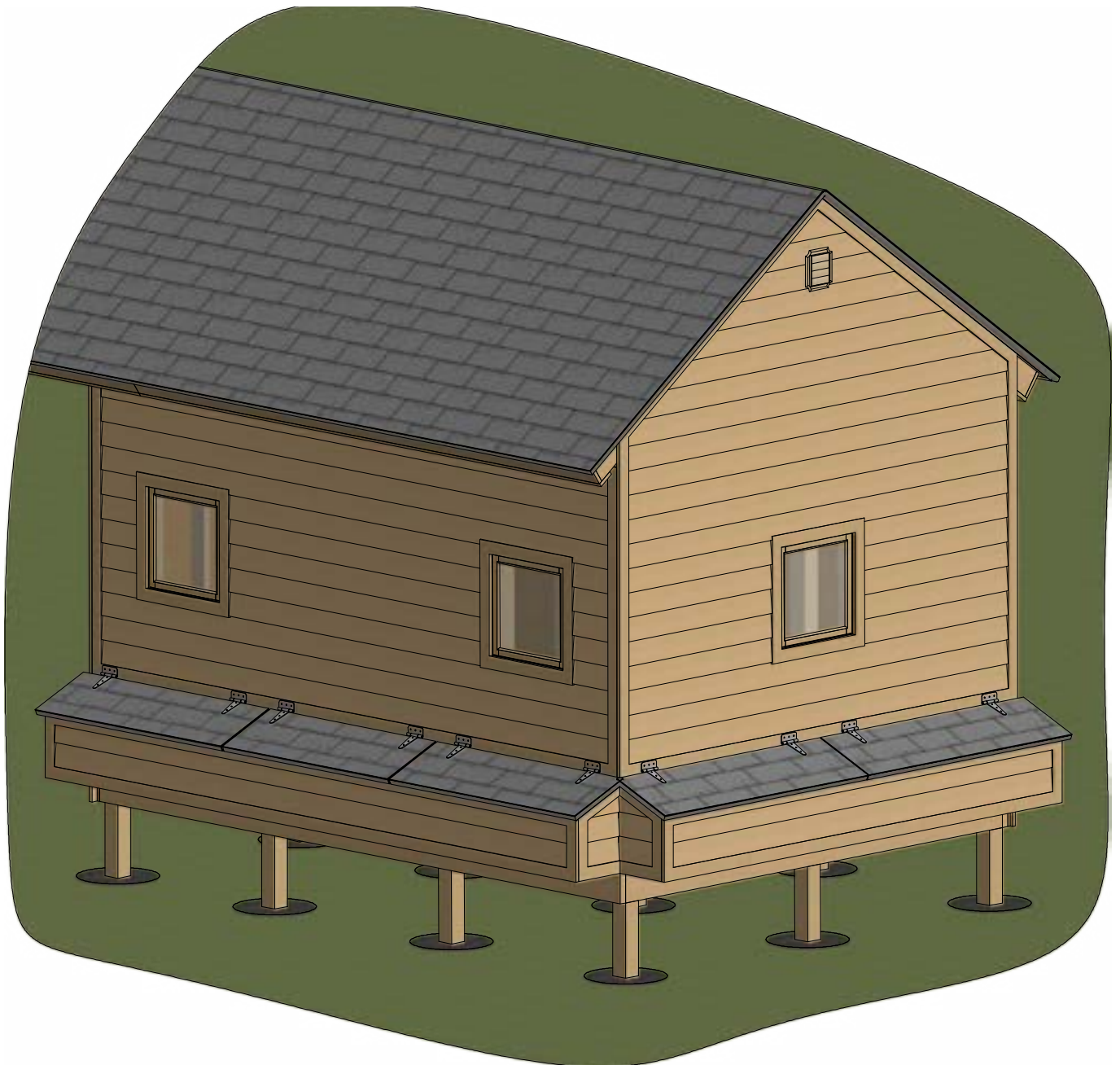
Assemble and Install Windows

You will need to prepare three windows.

14.1 Using 1 1/2" x 1 1/2" pressure-treated lumber, assemble the outer frame for the window as shown in the drawing below. You will need four boards cut to 1'-7 1/2" that will be the vertical and horizontal girts. Cut the recesses in each beam for splicing connection and mill a recess for the glass.

14.2 Prepare and install 1'-5 1/4" x 1'-5 1/4" glass into inner frame groove and fasten it by window beading from four sides. Use 1/2" galvanized nails.

14.3 Insert window into wall openings and connect them with 3" wood screws to the wall beams.



STEP 15

Mesh Wall Installation

15.1 Cover the walls with 1/4" wire mesh with the help of industrial stapler. You will need 1100 sq ft.



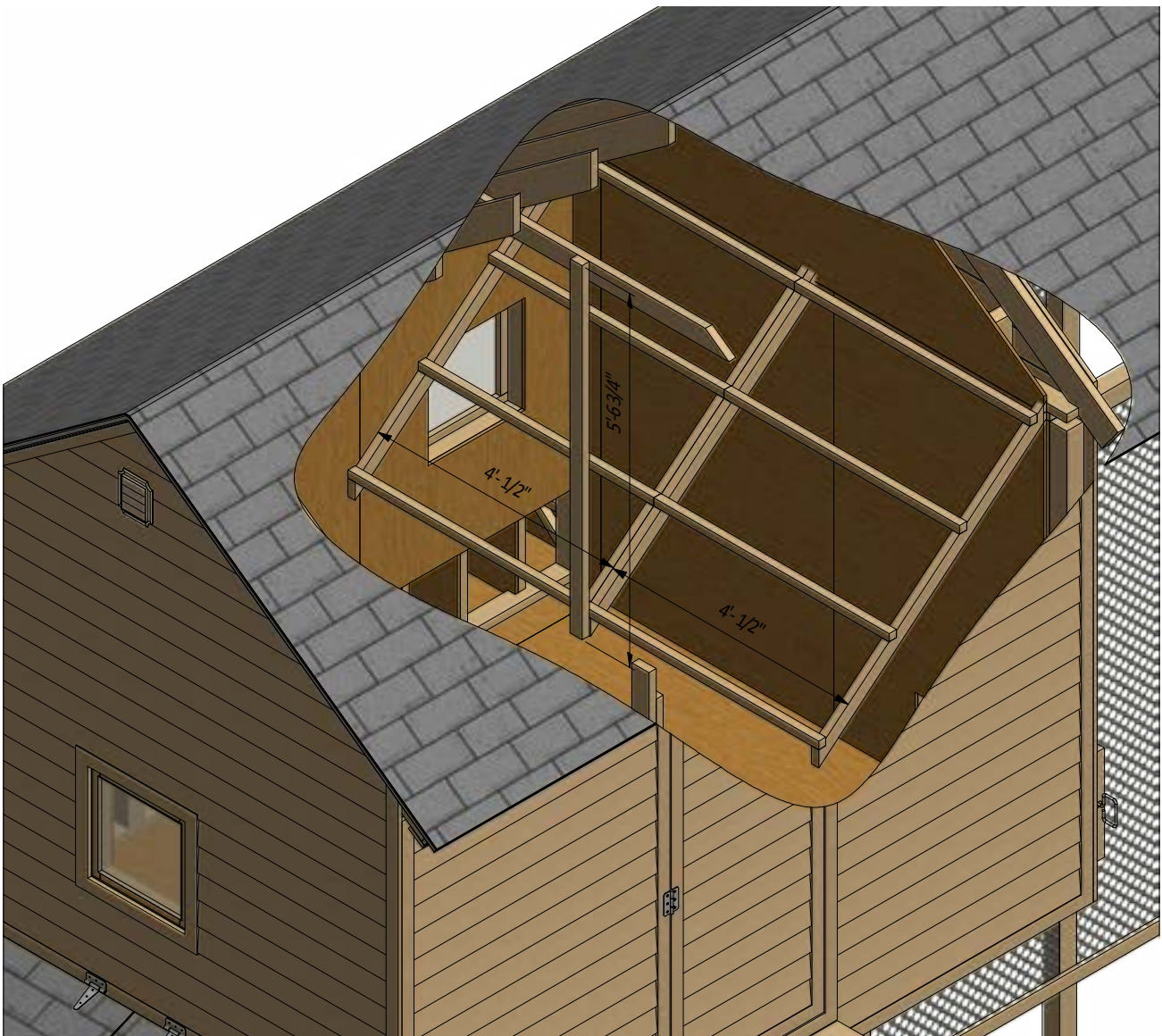
STEP 16

Assemble The Roost

16.1 Assemble the roost using 1 1/2" x 1 1/2" and 1 1/2" x 2 1/2" pressure-treated material. You will need four boards cut to 5'-3" that will be the stringers and eight boards cut to 4'-1/2" that will be treads.

16.2 Connect the beams with 2" wood screws.

16.3 Install the roost at the walls and to the collar tie with the help of 1 1/2" x 2 1/2" beam. You will need to cut one 5'-6 3/4" board.

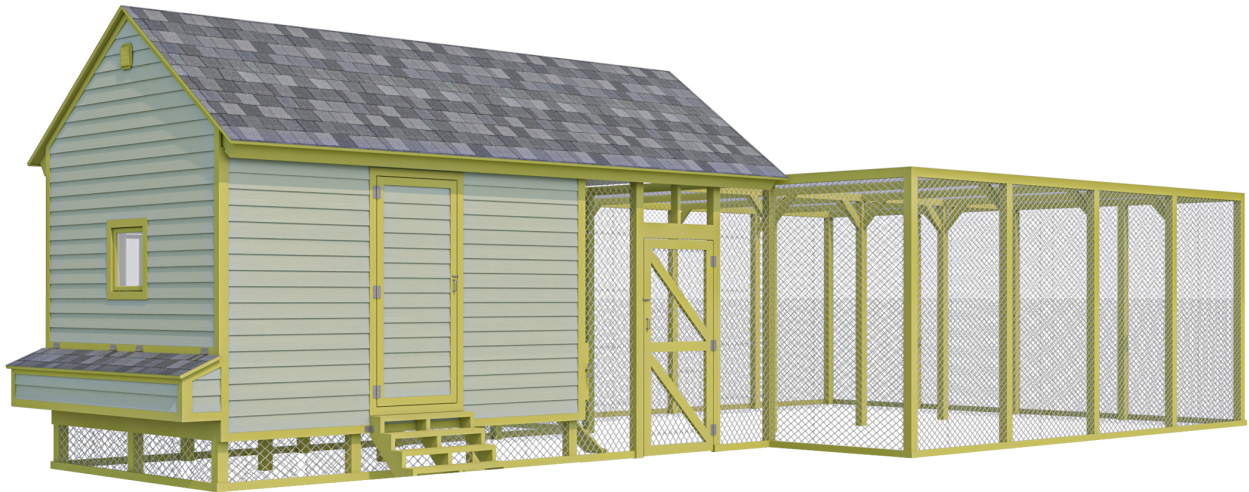


STEP 17

Final Touches

Now that your chicken coop is all done, you are ready to decorate it any way you want using your favorite paint, stain, or preservative.





Compare Free vs. Premium plan

| | Free plan | Premium edition |
|----------------------------------|-----------|-----------------|
| Pages | 22 | 81 |
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| Print Ready | ✓ | ✓ |
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| Additional Illustrations | ✗ | ✓ |
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