BEST BARNS
PREMIUM STORAGE STRUCTURES

Maker's Loft XL   16'x24'

Manufactured by RBS Holdings, LLC
205 Arlington Drive   Greenville, PA   16125

IMPORTANT INFORMATION ABOUT YOUR KIT

Building Permits: Check with your local HOA or building code office for any requirements, restrictions or permits necessary for construction.

Foundation: By owner. Refer to next page for foundation suggestions and size.

What's Included: Our package includes pre-cut materials for the 2nd floor roof gables, roof trusses and gable trim. See back page for material list. The nails and hardware are packed in the top of 'A' pallet. The other materials on the pallet will not be used until the first floor walls and loft floor are completed.

Framing lumber for the first floor walls and loft floor, exterior siding, loft flooring and roof sheathing will be delivered by a local supplier. See back pages for material list.

Owner Supplied: Overhead 8' x 6/6 garage door with low headroom hardware. Walk-in man door, roof shingles, metal roof edge, felt and ventilation accessories. Paint for siding and trim. Additional lumber for framing additional window and door openings.

Assembly Help: Monday thru Friday   800-245-1577   8:00 to 5:00 ET

Weekend - after hours   724-866-4357

email to: *help@barnkits.com*

Care of product prior to assembly: Do not expose lumber and sheet goods to inclement weather. Assembly should begin promptly to prevent the twisting of lumber. Notify our company within 30 days of any damage or missing items for full replacement.

Building Tips: Follow the assembly Steps in sequence. Skipping steps will result in components not fitting properly. Before beginning construction do a complete inventory and group items by size and type of material.

Tools Required:

❒ Hand or Circular Saw   ❒ Level   ❒ Phillips Screwdriver
❒ Cordless Drill   ❒ Measuring Tape   ❒ Framing Square
❒ Caulking Gun   ❒ 8' & 10' Ladder(s)   ❒ Hammer
❒ Safetyglasses: Always wear safety glasses when cutting or nailing!
❒ * Scaffolding

* It is highly recommended to rent (6) six sections of scaffolding to safely install the second floor material. Use safety harnesses when on the scaffolding. Consider hiring a professional roofer to install the shingles or metal roof.
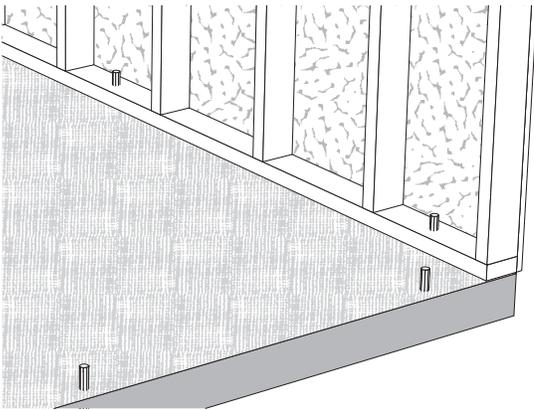
Foundation Types & Measurements

Important: You will need to have a proper foundation installed to support the building. Depending on the intended use determines what type of foundation is best.

Do Not make the foundation larger than the building size. When installing the building on a concrete slab, install the siding flush with the bottom plate. When installing on a wood floor, extend the siding 3/4" below the bottom plate to cover the edge of the flooring.

Foundation Types: What foundation is best depends on what type of items will be stored. The building code in your area will also determine what type of foundation can be used. A few different types of foundations are shown below. Check the zoning and building code requirements in your area.
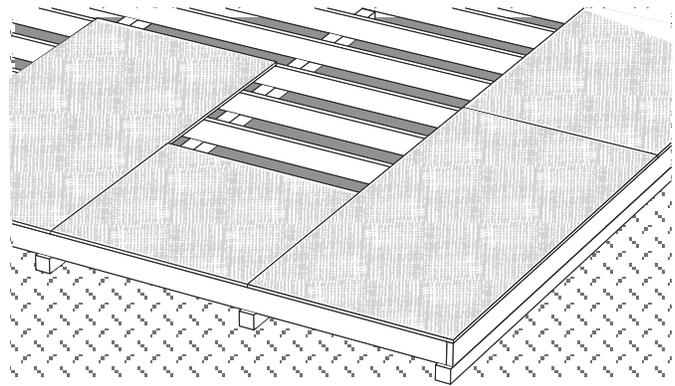
Foundation Types

Floating Slab A concrete slab is ideal for storage of cars or other types of heavy items.

Wood Floor on Runners: Suitable for storage or workshop. Treated 6x6 lumber over a bed of gravel Floor joist should be treated 2x6 spaced 16" on center and covered with 3/4" tongue and groove wood flooring.

Floating Cement Slab

Wood Floor on Wood Runners

Exterior Siding Information

LP siding has a 50 year warranty and is already primed. Apply two coats of latex acrylic paint for the finish coat. Paint the bottom edge of the siding, *this is important*. Maintain 6" to 8" of clearance from the bottom edge of the siding and the ground. Don't allow garden mulch to build up and keep shrubs a minimum of 1' away from the building.

LAP Edge

Tongue Edge
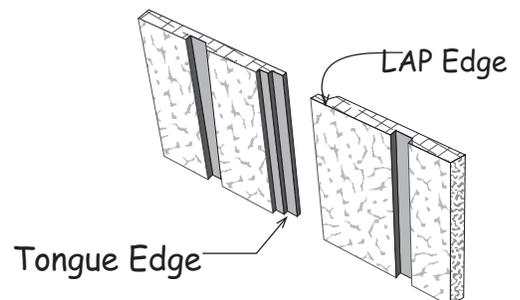
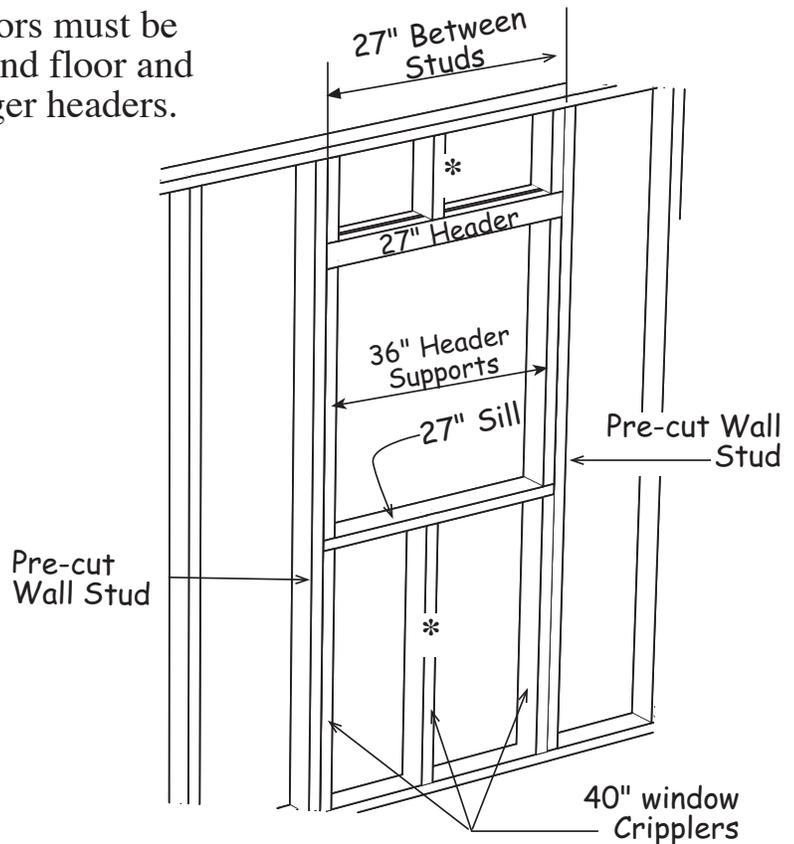# Rough Opening Details for Windows and Doors (not included)

☞ *If installing seperately purchased windows and doors follow the manufacturers instructions for correct rough opening size*. The below examples are for reference only and may need to be modified depending on style and size of your windows and doors..

Headers above windows and doors must be sufficient to support weight of 2nd floor and trusses. Wider spans require larger headers.

24" x 36" Window Opening

1. Select a wall stud where you want to start installing the window opening. Install another wall stud spaced 27" away.

2. Cut (3) three 2x4s to a length of 40". Cut one to a length of 27".

3. Install these 2x4s as shown on right.

4. Cut (2) two 2x4s to 36". Install as header supports under header.

5. Cut 2x4s to fit and install between header and top wall plate.

* Maintain 16" stud spacing so the siding will meet on a stud.

*(Diagram labels: 27" Between Studs, * , 27" Header, 36" Header Supports, 27" Sill, Pre-cut Wall Stud, Pre-cut Wall Stud, * , 40" window Cripplers)*

32" x 80" Door Opening

1. Select a wall stud where you want to start installing the door opening. Install a another wall stud spaced 37-1/2" away.

2. Cut (2) two 2x4s to a length of 80-1/2. Install these as header supports under header.

3. Cut 2x4s to fit and install between header and top wall plate.
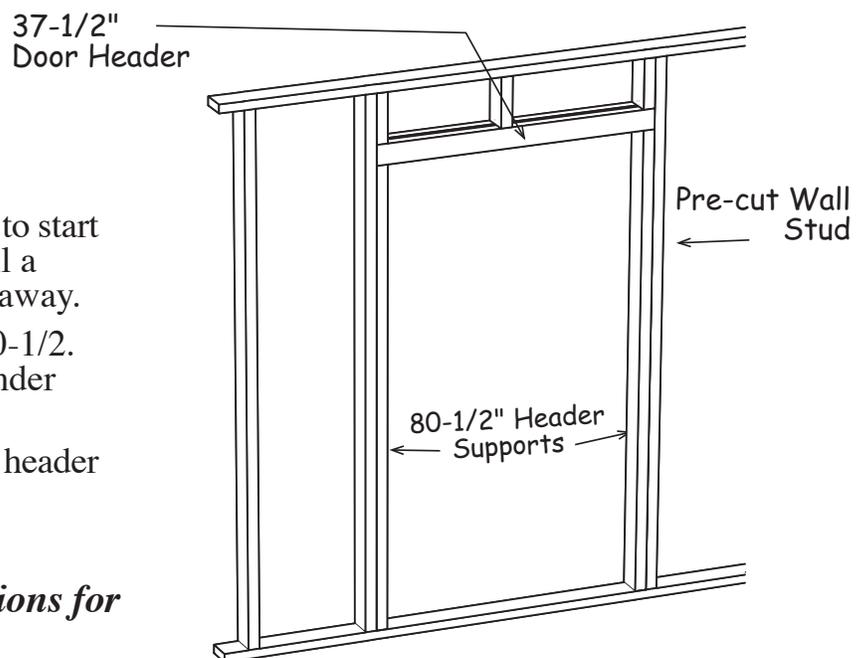
☞ *Alter the following instructions for rough openings as needed.*

*(Diagram labels: 37-1/2" Door Header, Pre-cut Wall Stud, 80-1/2" Header Supports)*

Step 1   Assemble (2) Two 92-1/2" Rear Wall Frames

1. Cut (2) two 2x4-8' (one will be treated) to a length of 92-1/2". Position the boards together and indicate with 'X' marks where the wall studs will be located.

2. Mark a 'C' anywhere between first two stud marks. This is referenced in a later step.

92-1/2 Top Wall Plate	X C X	X	X
92-1/2" Treated Bottom Plate	X X	X	X
Stud Spacing - - - - - - - - ->	11-3/4"	16"	16"
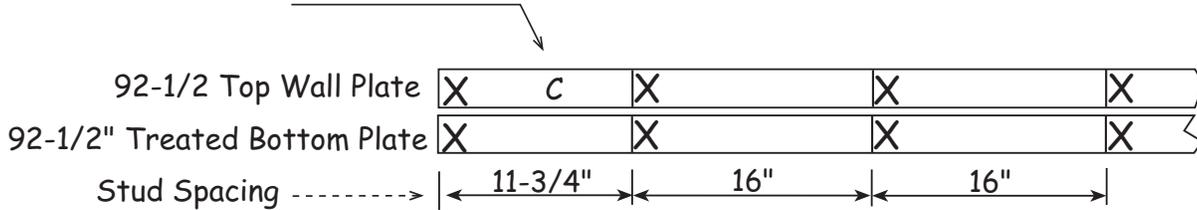
👉 *The length of pre-cut wall studs will vary from 92-1/4" to 93" depending on your locality.*

Note: *When building the lower walls, use treated 2x4s for the bottom wall plates.*
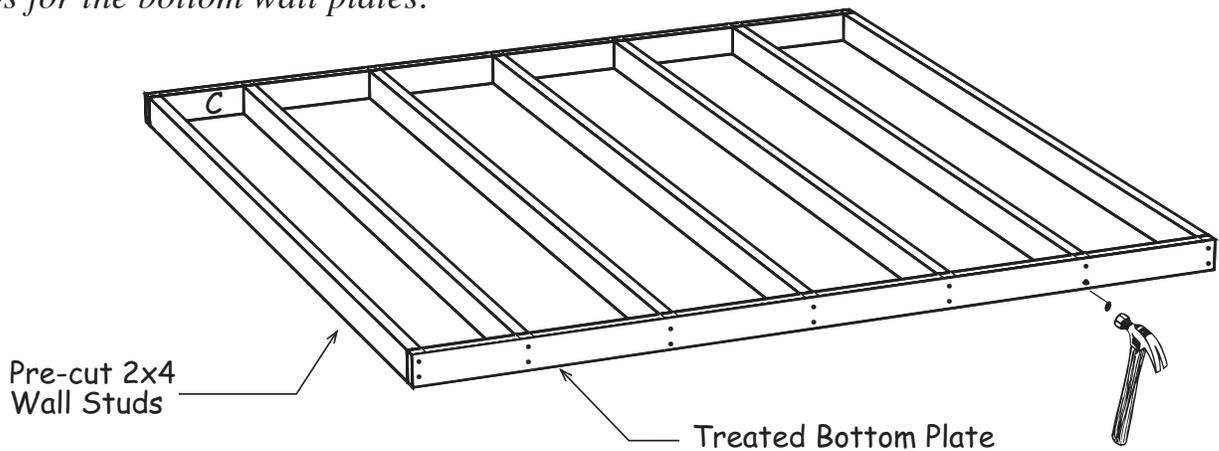
Pre-cut 2x4 Wall Studs

Treated Bottom Plate

2. Install (7) seven pre-cut wall studs between the top and bottom plates. Nail the treated bottom plate to each wall stud with (2) two 16d galvanized deck nails. Use (2) two 10d coated sinker nails per stud to secure the top plate.

3. Repeat to build another 92-1/2" long wall frame.

4. Mark both frames '**Rear Wall Frames**' and set frames aside.

Step 2A   Assemble (6) Six 8' Side Wall Frames

1. Select (2) two 2x4-8' (one will be treated) if necessary trim to a length of 96". Position the boards together and indicate with 'X' marks where the wall studs will be located.

96" Top Wall Plate	X	X	X	X
96" Treated Bottom Plate	X	X	X	X
Stud Spacing - - - - - - - - ->	15-1/4"	16"	16"
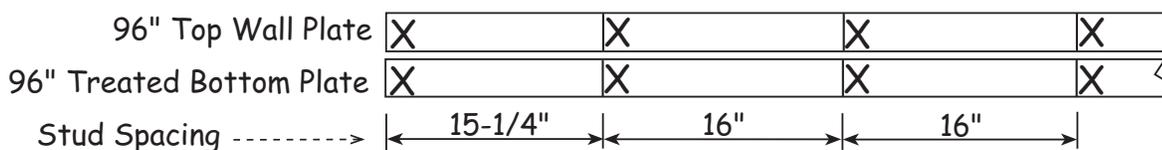
## Step 2B   Assemble (6) Six 8' Side Wall Frames continued

👉 *If you are adding additional windows or doors, frame-in rough opening(s) per manufacturer's instructions.*

2. Install (7) seven pre-cut wall studs between the top and bottom plates. Nail the treated bottom plate to each wall stud with (2) two 16d galvanized deck nails. Use (2) two 10d coated sinker nails per stud to secure the top plate.

3. Repeat to build (5) five more 8' long wall frame.

4. Mark frames '**Side Wall Frames**' and set frames aside.

Pre-cut 2x4
Wall Studs

Treated Bottom Plate
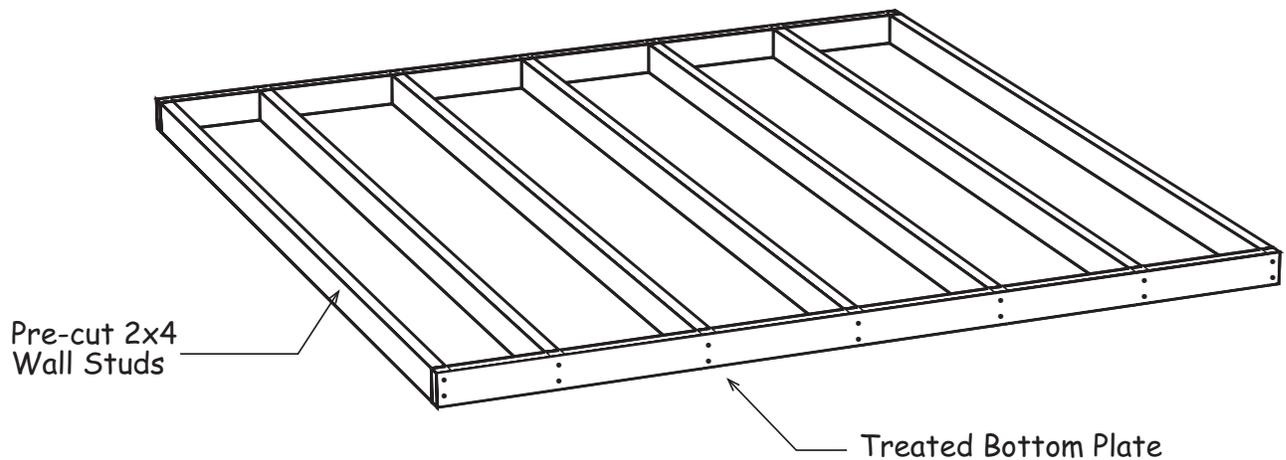
Step 3   Assemble Door Header

1. Cut (2) two 10' long 2x8 boards to a length of 99".
2. Locate a 24" x 48" OSB (oriented strand board) panel packed in our kit. Cut (2) two 7-1/2" x 48" fillers to fit between the 2x8 boards.
3. Take OSB filler and install in the center of the 2x8 boards. Nail together using 10d coated sinkers. Use (12) twelve nails spaced evenly on each side.
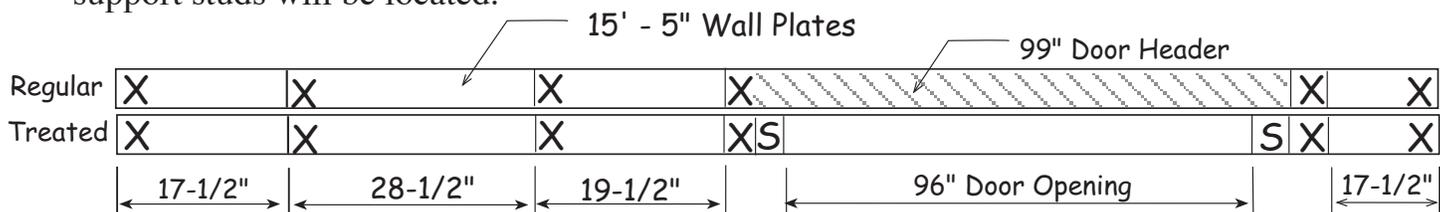
99" Long 2x8

GLUE

48" OSB Filler

OSB 1-1/2"
from End

99" Long 2x8
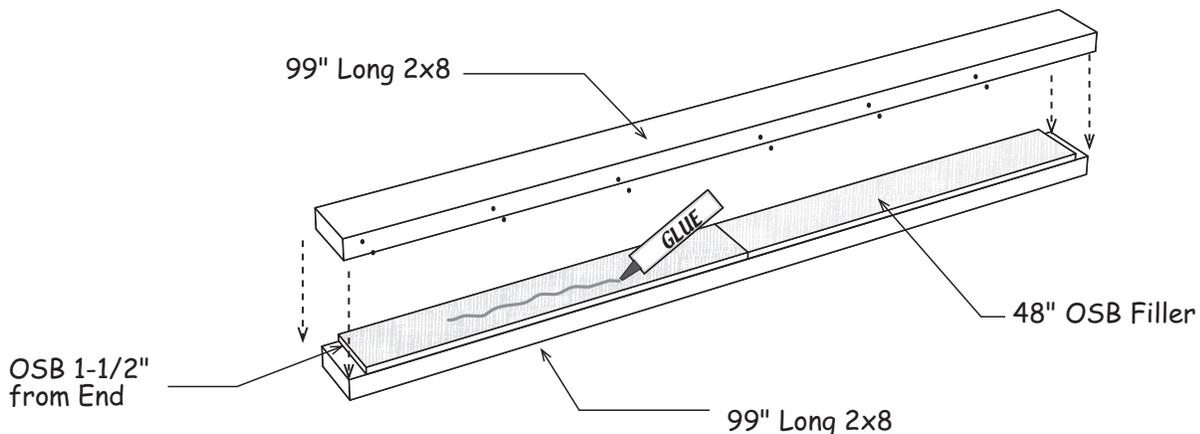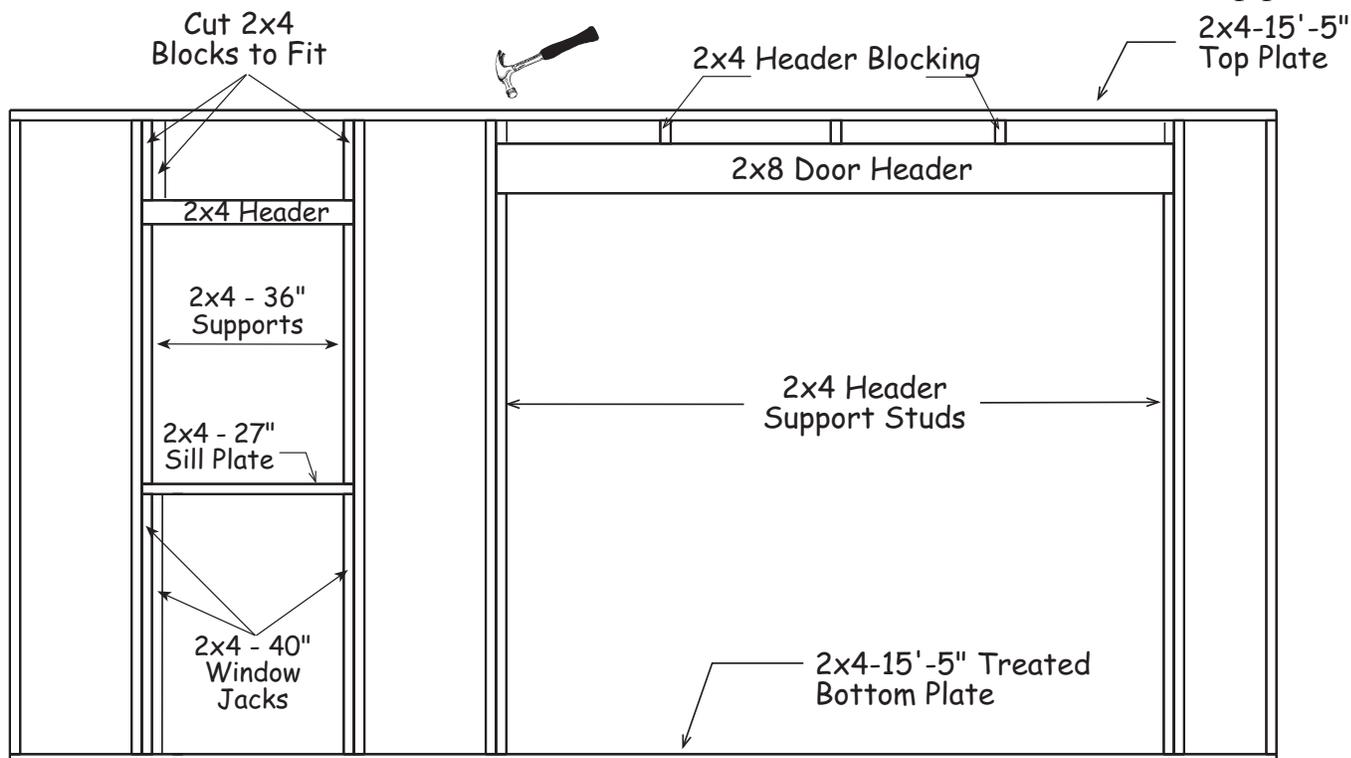
Step 4   Assemble 15'-5" Front wall Door Frame

☞ *Instructions show a suggested location for a 24"x36" window.* Adjust stud spacing if no window or if a different size window was purchased. A walk-in door can also be installed if desired.

1. Cut (2) two 2x4-16' (one will be treated) to a length of 185". Position the boards together and indicate with 'X' marks where the wall studs will be located and an 'S' where the door header support studs will be located.

15' - 5" Wall Plates

99" Door Header

| Regular | X | | X | | X | | X | | | X | | X |
| Treated | X | | X | | X | | XS | | | SX | | X |

| 17-1/2" | 28-1/2" | 19-1/2" | 96" Door Opening | 17-1/2" |

☞ *When setting the wall panels the door opening can be positioned on the right, as shown below, or reverse framing to position on the left end of the wall.*
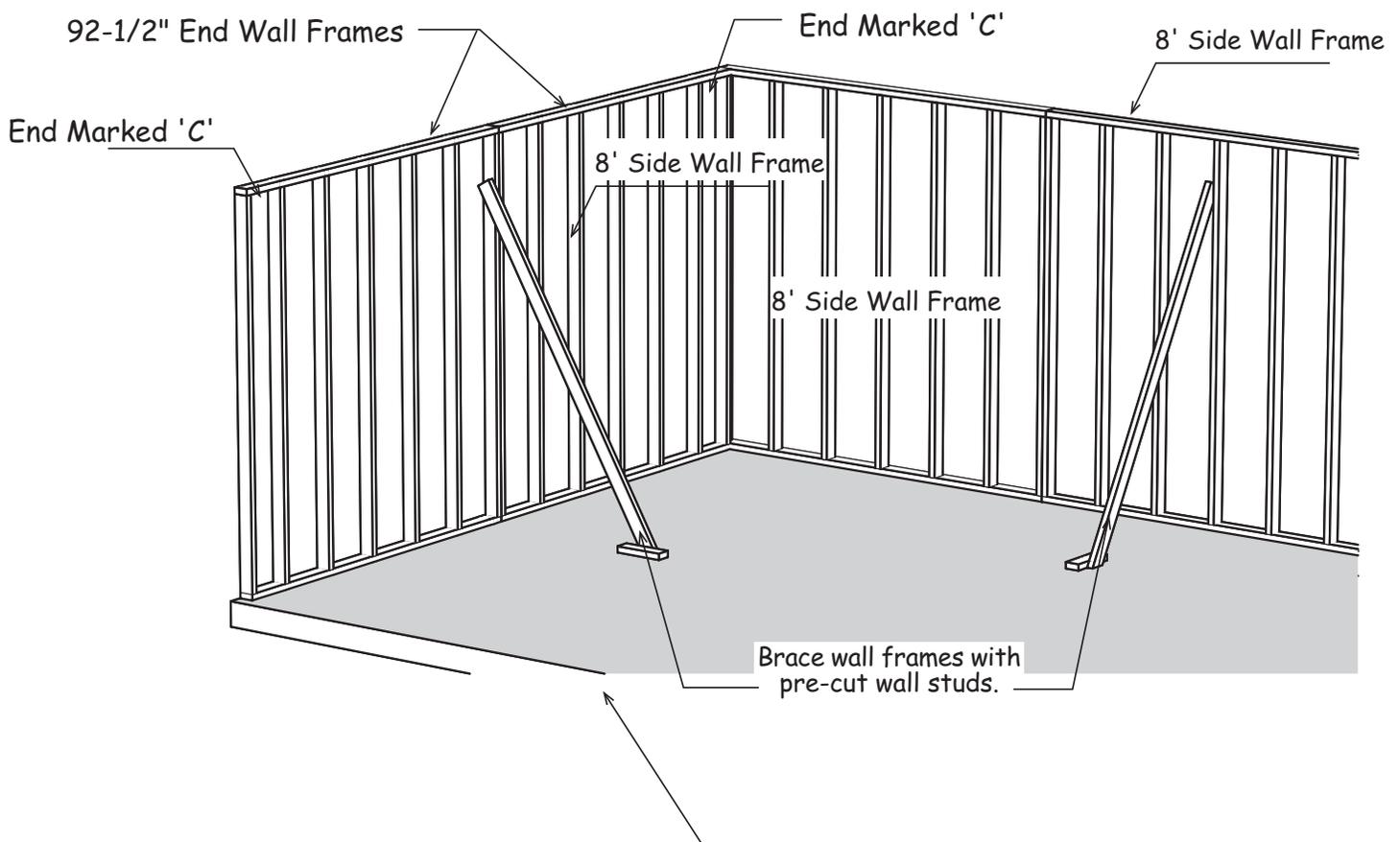
2. Assemble the front wall frame using the wall plates cut above and installing (6) six pre-cut wall studs over the 'X' marks.

3. Refer to the garage door specifications to determine the height of the rough opening. Cut (2) two pre-cut studs to this height less 1-1/2" and install them as header supports using (10) ten 10d sinkers. Install the 2x8 header by toe-nailing the ends to the adjacent studs with 10d sinkers.

4. Cut (5) five pieces from a pre-cut stud to fit between header and top 2x4 plate. Install with 10d sinkers through top plate and toenail into header. Save cutoff for next step.

5. Cut (3) three 2x4s to 40". Nail one board to 2nd stud and bottom plate. Nail another 40" board next to first 40" board. Install last 2x4 to 3rd stud and bottom plate.

6. Cut (1) one 2x4 to 27" as a sill plate and (2) two 2x4s to 36" as header supports. Install as shown. Install header above 36" boards. Cut (3) three 2x4s to fit between header and top plate.

Cut 2x4
Blocks to Fit

2x4 Header Blocking

2x4-15'-5"
Top Plate

2x4 Header

2x8 Door Header

2x4 - 36"
Supports

2x4 - 27"
Sill Plate

2x4 Header
Support Studs

2x4 - 40"
Window
Jacks

2x4-15'-5" Treated
Bottom Plate

Step 5　　Install Wall Frames

☞ *Front and back wall frames are positioned between long side walls.*

1. Install one of the 92-1/2" rear wall frames against inside of a 8' side wall frame.**IMPORTANT:** Orient end marked with a 'C' to corner. Secure frames together at the corner using (4) four 10d sinkers. Brace walls with pre-cut studs.

2. Install the other 92-1/2" rear wall frame to the rear wall frame. Nail the <u>rear wall frames</u> together where they butt with (8) eight 10d sinker (stagger nails on each side of the studs).

3. Install another 8' frame, next to the first 8' side wall frame. Nail frames together where they butt with (8) eight 10d sinkers (stagger nails on each side of the studs).

92-1/2" End Wall Frames — End Marked 'C' — 8' Side Wall Frame

End Marked 'C'

8' Side Wall Frame

8' Side Wall Frame

Brace wall frames with pre-cut wall studs.

4. Install (2) two 8' wall frames on the opposite side.

5. Nail frames to the floor using 16d Galv. spiral nails or, if erecting on a cement slab, concrete anchor bolts (*not included*) spaced 24" on center.

Step 6   Install Wall Frames continued

6.   Install 8' side wall frames at the front corners.

8' Side Wall Frame

15'-5" Front Wall Frame
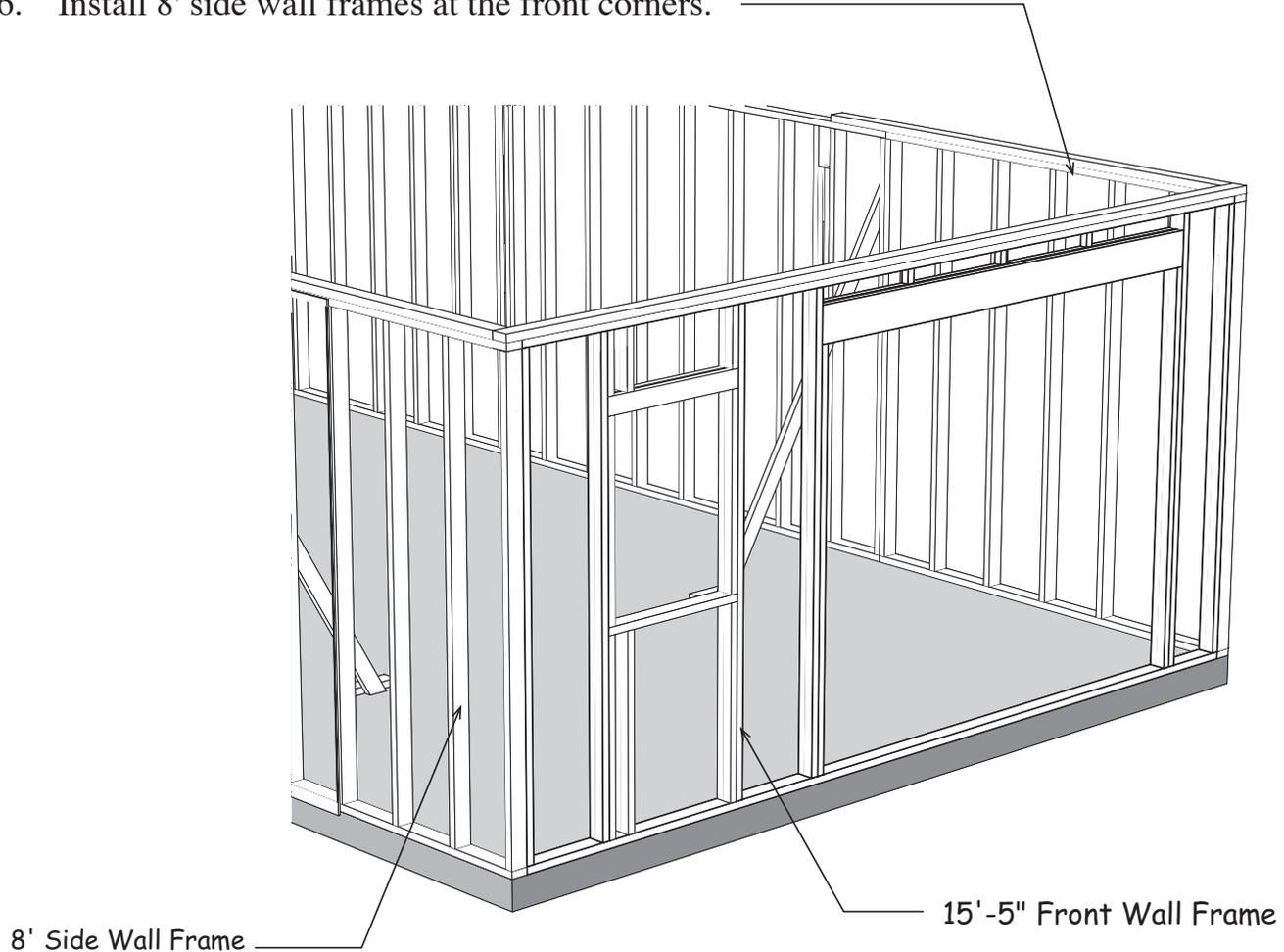
7.   Install the front wall frame between the side wall frames. Turn the wall frame around if you want the window located on the right. Secure frames together at the corner using (4) four 10d sinkers.

8.   Nail frames to the floor using 16d Galv. spiral nails or, if erecting on a cement slab, concrete anchor bolts (*not included*) spaced 24" on center. Do not nail the 2x4 plate in the door opening.

Step 7   Install 2x4 Tie Plates

1. Install a 16' long 2x4 on the back wall. Use 10d sinkers space 16" apart to secure tie plates.
2. Repeat to install a 16' long 2x4 tie plate on the opposite front wall.

12' Long 2x4 Tie Plate

16' Long 2x4 Tie Plate
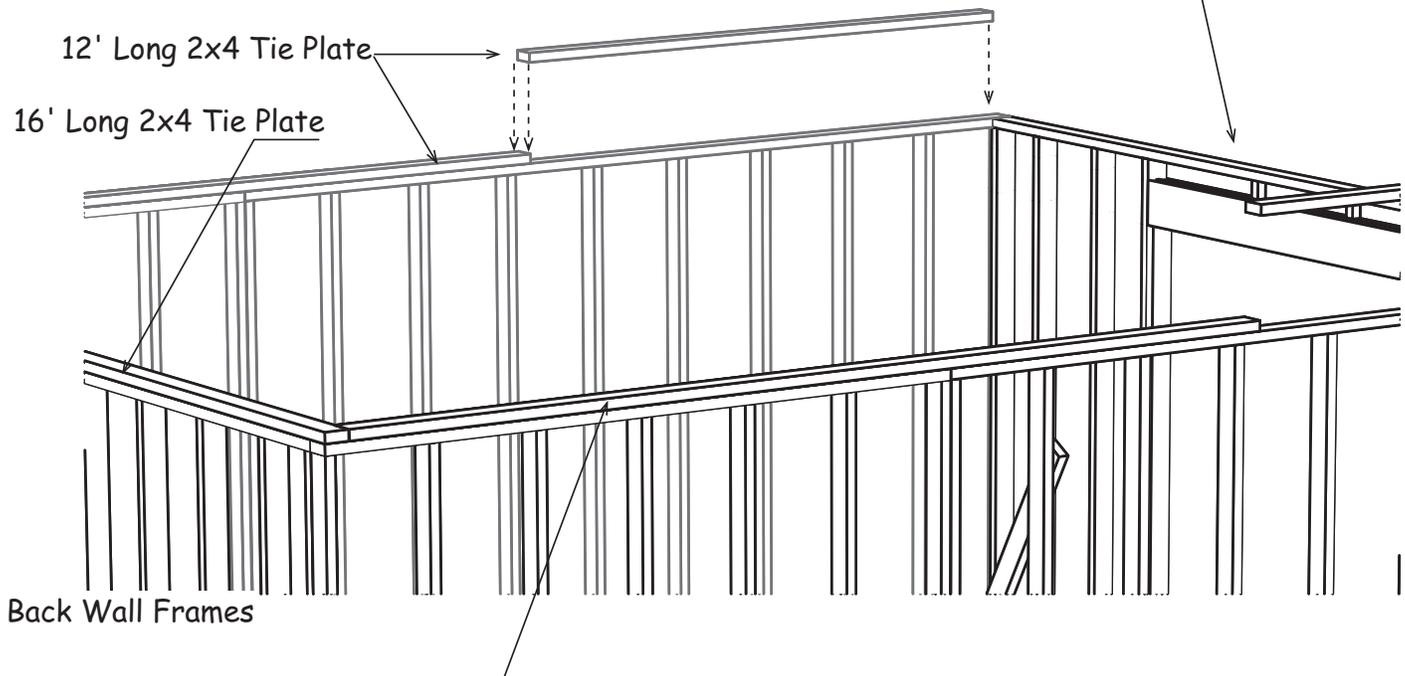
Back Wall Frames

3. Install a 2x4-12' board on the side wall frame. The 2x4 side wall tie plate will butt against the 16' long tie plate on the back wall. Use 10d sinkers.
4. Cut to fit and install a 2x4-12' board on the same side wall frame.
5. Repeat to install 2x4 tie plates on the opposite side wall frames.

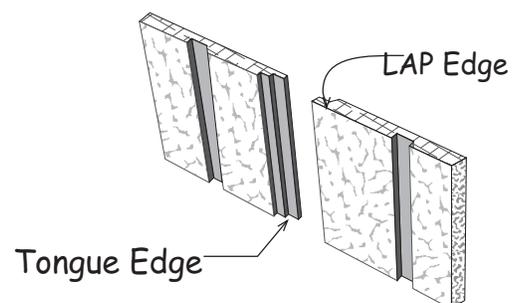# Step 8A   Install Siding on Wall Frames

☞ *If a siding panel has a damaged edge, install this edge at a corner where it will be covered with corner trim.*

Concrete Slab Foundation: Install siding flush with the bottom plate.

Wood Floor Foundation: Extend the siding 3/4" below the bottom plate.

Exterior Siding Information

LP siding has a 50 year warranty and is already primed. Apply two coats of latex acrylic paint for the finish coat. Paint the bottom edge of the siding, *this is important*. Maintain 6" to 8" of clearance from the bottom edge of the siding and the ground. Don't allow garden mulch to build up and keep shrubs a minimum of 1' away from the building.

LAP Edge

Tongue Edge

# Step 8B Install Siding on Wall Frames continued

1. Install a full width siding panel on the side wall with the 'LAP' edge flush with the 2x4s on the back wall. Install (5) five more siding panels. If necessary cut last panel flush with 2x4s on front wall. Use 8d galv. box nails spaced 8" apart.

2. Install a siding panel on the back wall with the 'LAP' edge flush with the siding on the side wall. Install 3 more panels.

3. Install siding on opposite side wall.

LAP
Edge

Back Wall

Side Wall

Install This Panel First
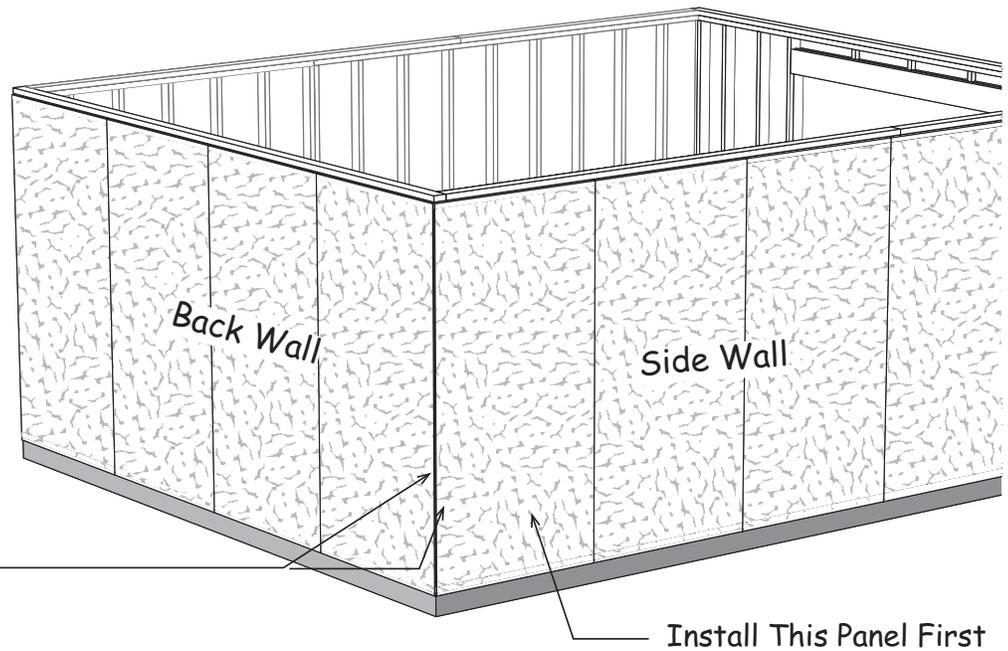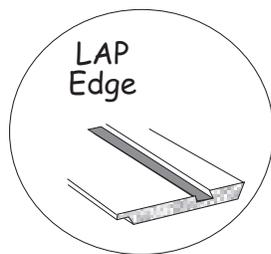
☞ If suggested 24"x36" window was *NOT* installed adjust width of first siding accordingly.

4. Measuring from the 'tongue' edge, cut a siding panel to a width of 28". Install this siding panel on the front wall with the 'cut' edge flush with the siding on the side wall. Cut and remove the siding that extends over the window opening.

5. Install a 4x8 siding panel. Remove siding that extends over the window opening.

6. Locate (2) two 14-1/2" x 48" siding panels. Cut these to fit above door opening, flush with bottom of door header.

7. Install the remaining siding panel on the wall frame.

8. Cut and remove 2x4 plate that extends across the door opening. Save the 2x4, it will be used in a later step.

Cut & remove
2x4 Plate

Cut Edge
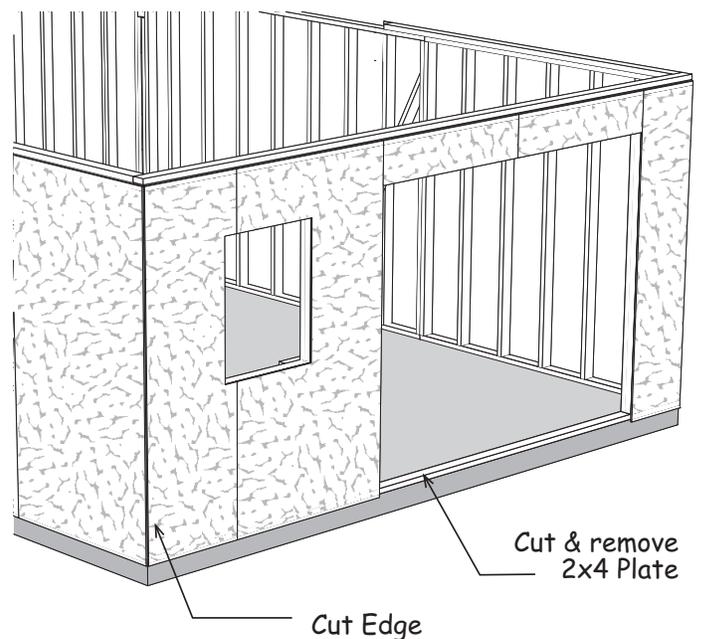
Step 9 thru 11

☞ *Steps not needed with this size and model.*

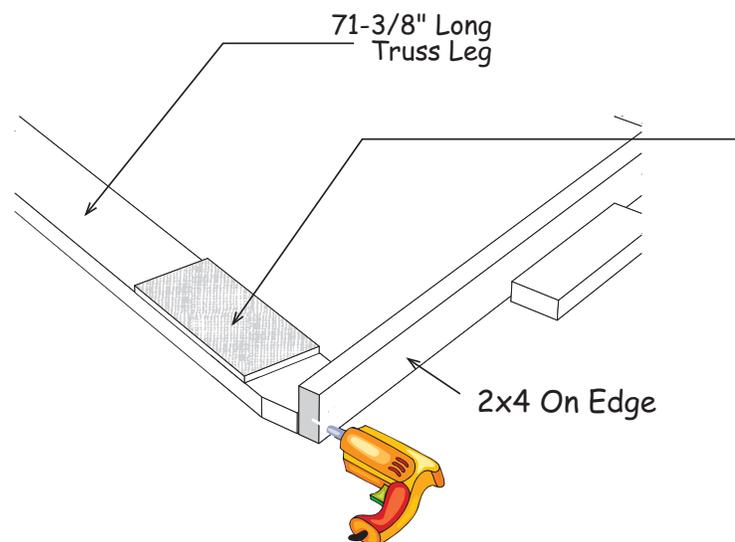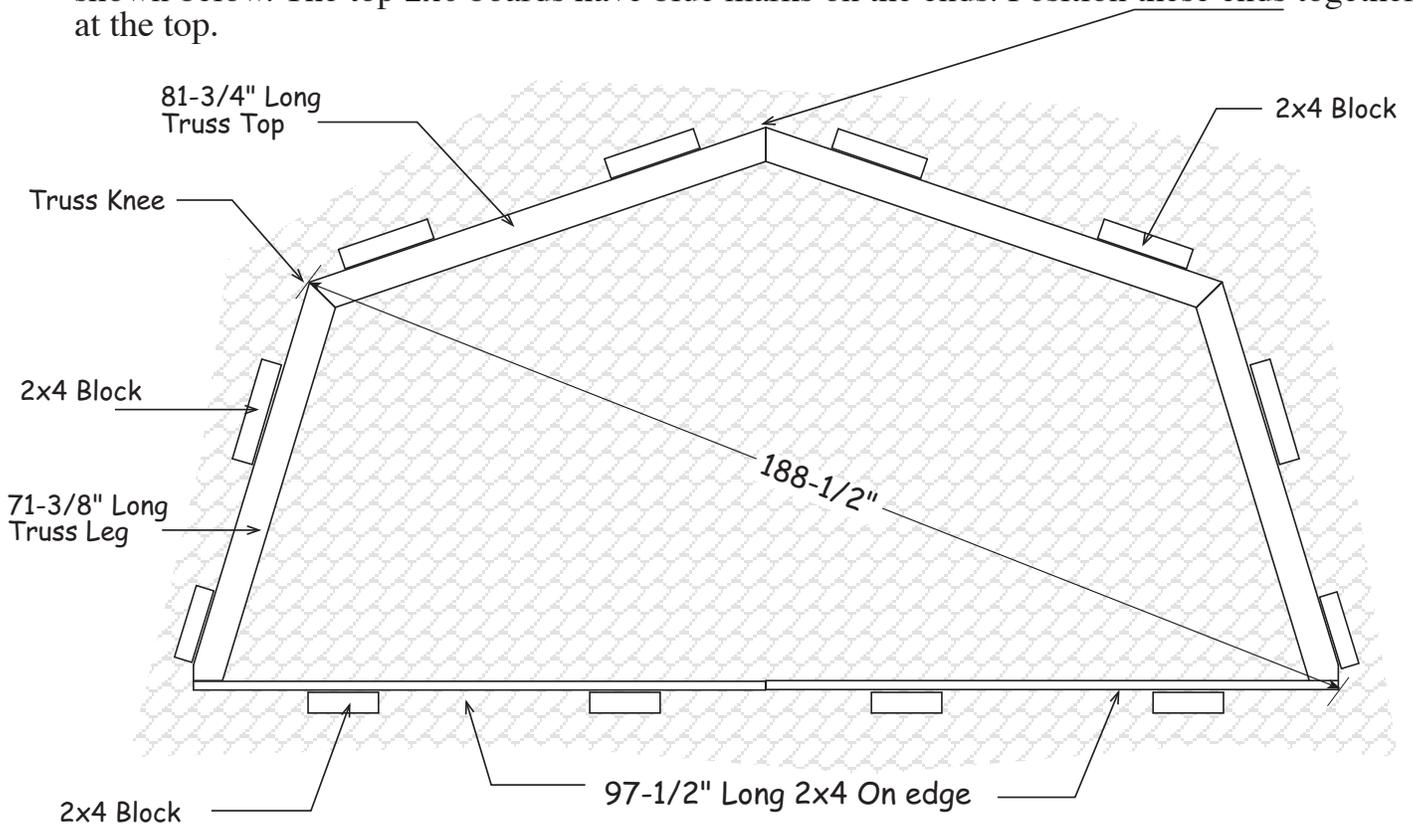## Step 12   Install Stairs

☞ **IMPORTANT:** <u>Go now</u> to the instructions in the stair kit book to install the stairs, floor joist and flooring.

Step 13A   Assemble Rear Gable

👉 *Assemble the roof gables and trusses on the center of the loft floor. This will make it easier to stand the gable upright over the lower wall.*

1. Cut (2) two 2x4-10' boards to a length of 97-1/2". Position these 2x4s, *on edge* and butt together.
2. Position (2) two 81-3/4" long 2x6s and (2) two 71-3/8" long 2x6 boards on the 2x4 plates as shown below. The top 2x6 boards have blue marks on the ends. Position these ends together at the top.

81-3/4" Long
Truss Top

2x4 Block

Truss Knee

2x4 Block

71-3/8" Long
Truss Leg

188-1/2"

2x4 Block

97-1/2" Long 2x4 On edge

71-3/8" Long
Truss Leg

2x4 On Edge

3. Secure the truss leg to the 2x4 plate with (2) two 2-1/2" long deck screws.
4. Install 5-1/2" x 12" OSB fillers on the 2x6 truss legs near 2x4 with 6d common nails. Exact spacing isn't important.
5. Square truss. Measure diagonally from the knee of the 2x6 truss to the bottom corner of the 2x4 plate. The measurements will be the same (188-1/2") when the truss is square.
6. Cut 2x4 removed from door opening into 8" long blocks. Tack nail or screw the blocks around the perimeter of the gable frame to prevent the gable from moving.
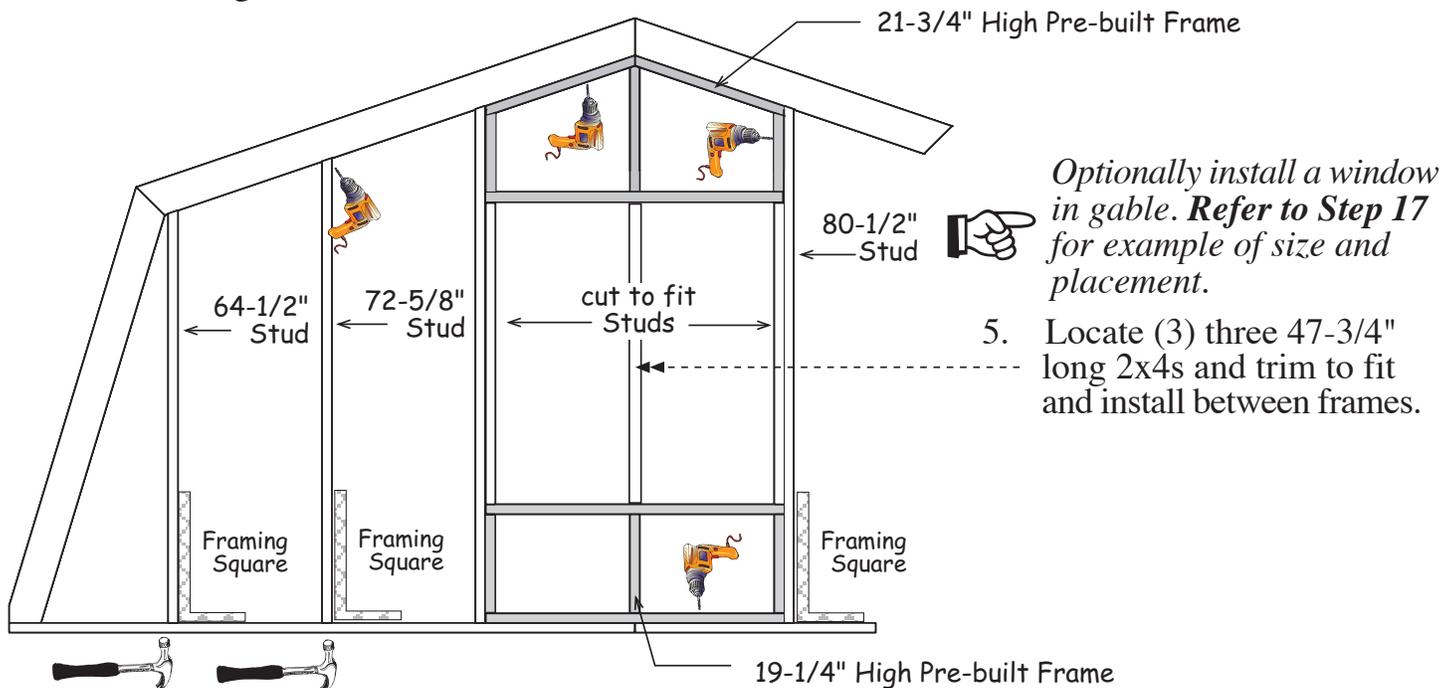
Step 13B   Assemble Rear Gable continued

☞ *The Ridge Gussets have equal length angle cuts. The Knee Gussets have unequal length cuts.*

1. Secure the 2x6 boards together at the knee and ridge with 1/2" OSB gussets.
    Use 6d common nails. Nail 5-1/4" x 12" OSB fillers where shown below.

1/2" Gusset
at Ridge

5-1/4" x 12"
OSB Filler

5/1/4" x 12"
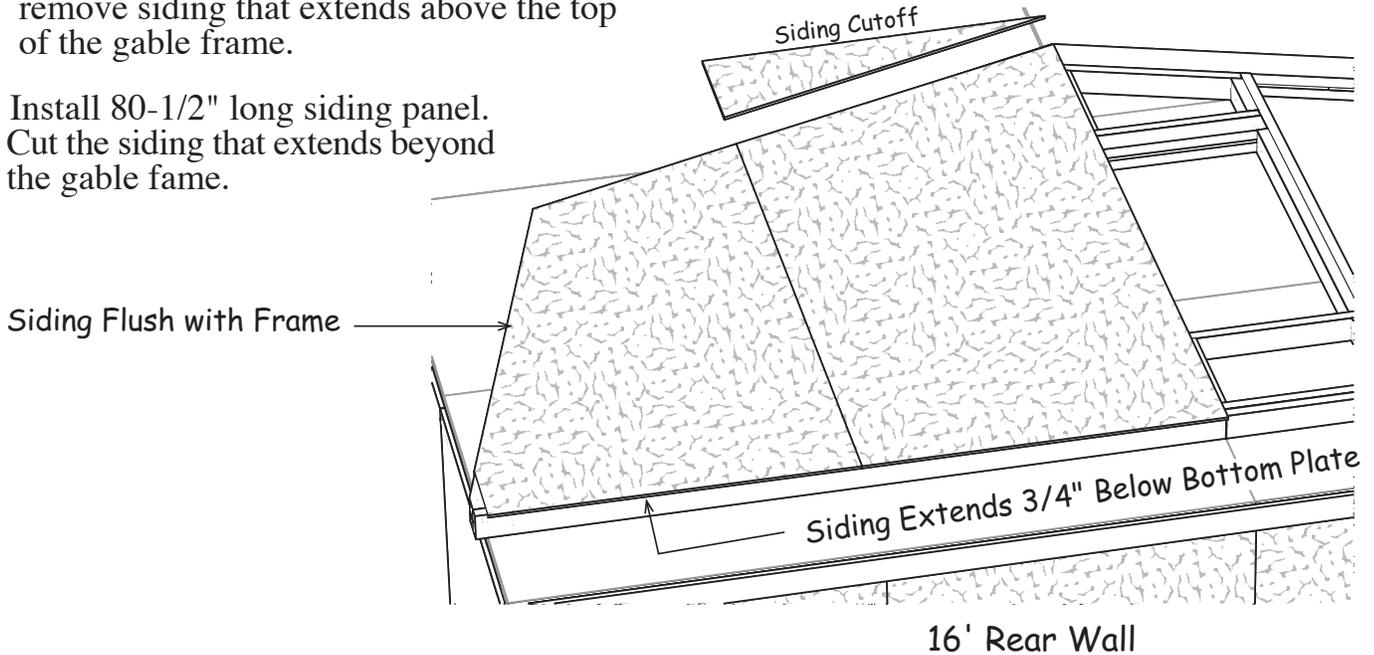OSB Gusset
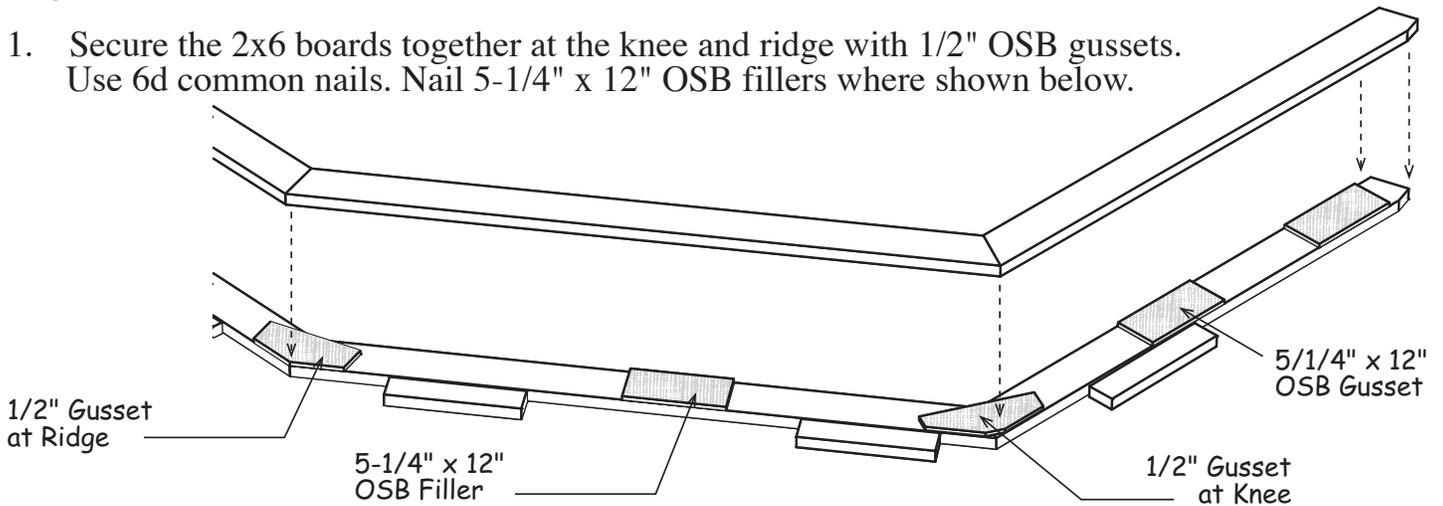
1/2" Gusset
at Knee

2. Place (2) two 81-3/4" and (2) two 71-3/8" 2x6s over the fillers. Secure using (6) six 10d sinkers
    where fillers and gussets are located.

3. Install a 21-3/4" high pre-built gable frame at the peak of the double row of trusses. Secure the
    frame to the 2x6 truss boards with (6) six 2-1/2" deck screws.

4. Position a 19-1/4" pre-built frame directly below the top frame. Use (2) two 80-1/2" long studs
    to help align the upper and lower frames. Use a framing square to ensure the studs are plumb.
    Screw bottom frame to 2x4 plate using 2-1/2" screws. Secure the 80-1/2" studs to the pre-built
    frames using 2-1/2" screws.

21-3/4" High Pre-built Frame

64-1/2"
Stud

72-5/8"
Stud

cut to fit
Studs

80-1/2"
Stud

Framing
Square

Framing
Square

Framing
Square

19-1/4" High Pre-built Frame

*Optionally install a window
in gable.* **Refer to Step 17**
*for example of size and
placement.*

5. Locate (3) three 47-3/4"
    long 2x4s and trim to fit
    and install between frames.

6. Install a 72-5/8" and a 64-1/2" wall stud on the left side of the gable frame. Use a square to
    ensure the studs are plumb. Nail to 2x4 bottom plate with 10d sinkers and screw to 2x6s with
    2-1/2" screws. Repeat to install studs on right side of gable frame.

Step 14   Install Siding on Rear Gable Frame

1. Stand up the gable frame and slide it to the rear of the building. Position the frame with the bottom towards the rear wall so it can be erected after the siding is applied.

2   Install a pre-cut siding panel with the 'cut edge' flush with the left side of the gable frame. The siding should extend 3/4" below the bottom 2x4 gable plate. Install siding with 8d galv. nails.

3   Install (2) two 4x8 siding panels. Cut and remove siding that extends above the top of the gable frame.

4.   Install 80-1/2" long siding panel. Cut the siding that extends beyond the gable fame.

Siding Flush with Frame

Siding Cutoff

Siding Extends 3/4" Below Bottom Plate

16' Rear Wall

Step 15   Install Trim on Front and Back Walls

IMPORTANT: Trim Must Be Installed Before Installing Roof Gables!

All trim is installed using 8d galvanized box nails spaced 12" apart.

1. Locate (4) four 1-1/2" x 48-3/4" siding filler strips. Install these on back wall flush with top of flooring. There may be a gap between top of siding and strips. Use a few 8d galv. nails. Additional nails are applied below.

2. Cut and install (2) two 1x4 -10' trim boards flush with top of floor and bottom of the siding. Install trim flush with the siding on the side walls. Use 8d galv. nails spaced 12" apart.

Siding Filler
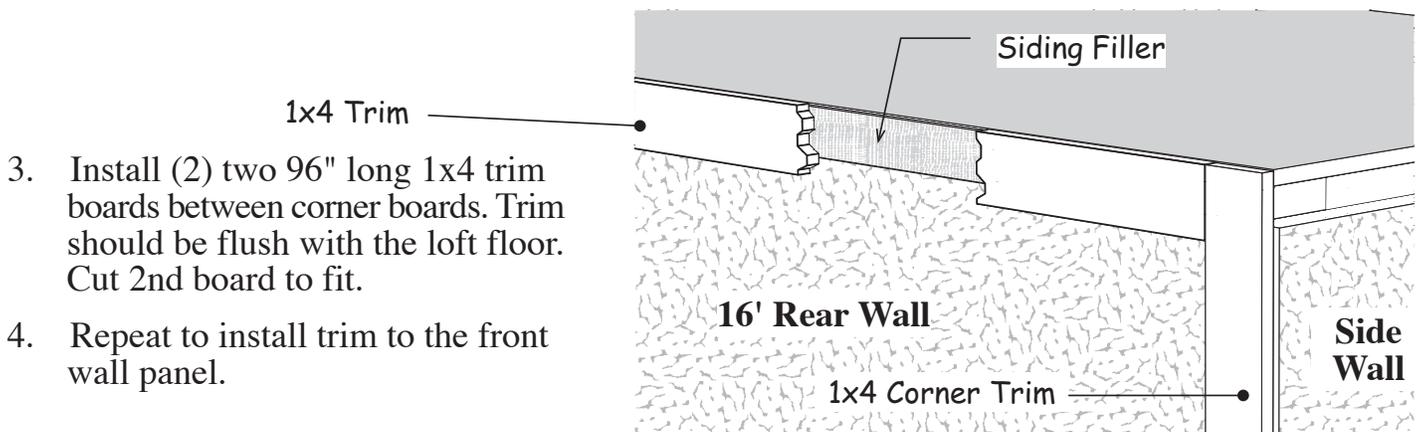
1x4 Trim

3. Install (2) two 96" long 1x4 trim boards between corner boards. Trim should be flush with the loft floor. Cut 2nd board to fit.

4. Repeat to install trim to the front wall panel.

16' Rear Wall

Side Wall

1x4 Corner Trim

Step 16   Install Rear Roof Gable

1. Install (2) two 2x4-12' boards on the back wall to prevent the gable from falling off during gable installation. Install (2) two more 2x4-12 boards to brace the vertical 2x4 in place.

   Before bracing the vertical 2x4s in place attach (2) two 2x4 blocks to the back of the 2x4s. This will create the proper spacing to set the gable over the lower wall.

2x4-12' Vertical Boards

2x4 Block

2x4 Block

2x4-12'

2x4-12' Brace

2x4 Stake
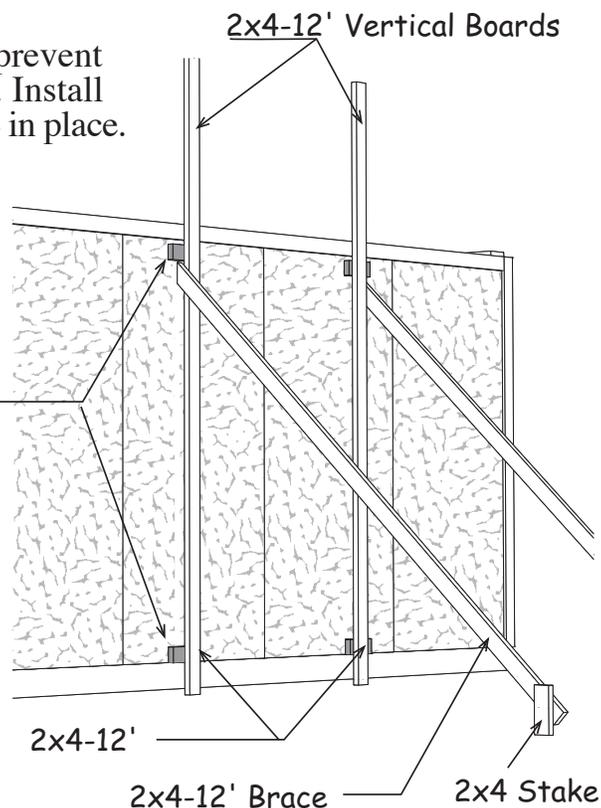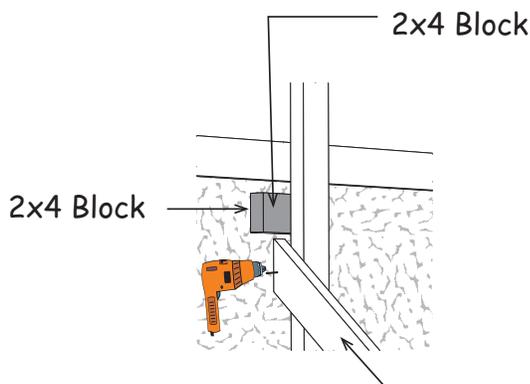
2. Erect the gable on back wall. Be cautious and ensure gable siding extends over trim on back wall. Center gable with bottom 2x4 extending 1-1/2" past lower wall 2x4s on both sides. Nail to floor using 10d sinkers.

3. Remove the wall braces from interior walls and use them to brace the gable to the loft floor.
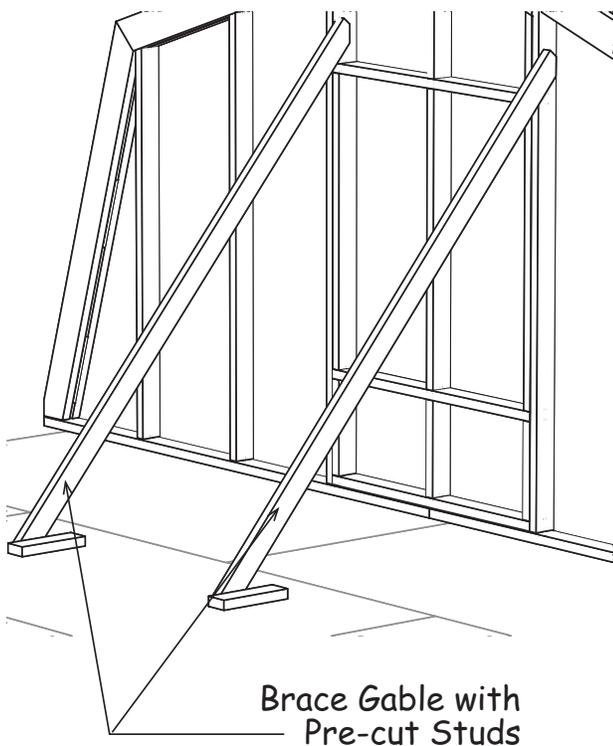
4. Nail bottom edge of siding to 1x4 trim with 8d galvanized box nails.

Brace Gable with Pre-cut Studs

Siding Extends Over Trim. Paint edge
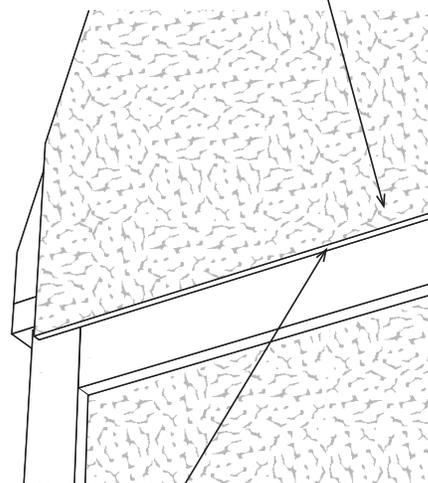
Step 17   Assemble & Install Front Gable

☞ *Instructions show a suggested location for a 36"x36" window.*
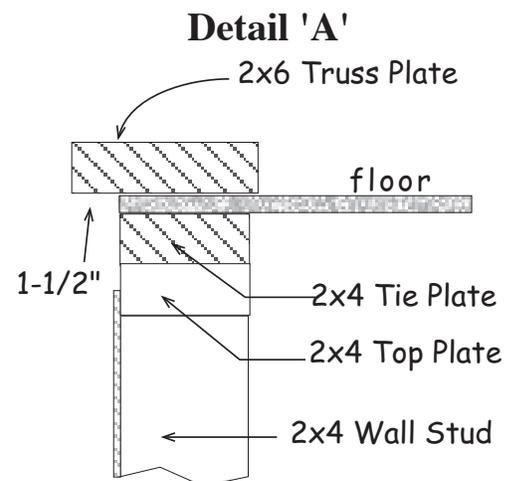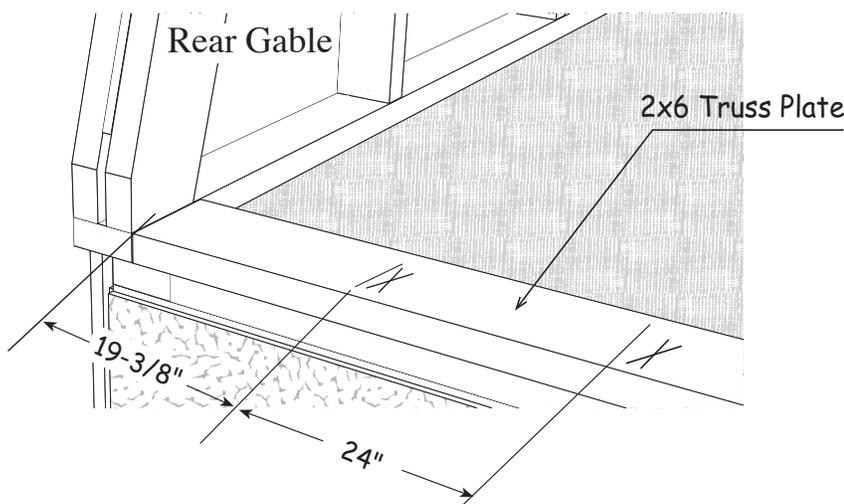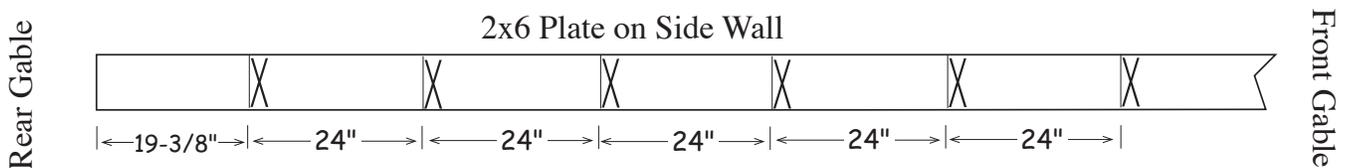Follow Steps 13 - 14 to build without a window.

1. Repeat **Step 13** to assemble front gable. Alter stud framing for window opening. Locate (3) three 47-3/4" long 2x4s. Cut (1) one to 36". Position these boards as shown below. Measure distance to bottom gable frame and cut (3) three 2x4s to this length and install under 36" board. Install 2x4s with 10d sinkers.

2. Slide gable to the front of the building. Position the frame with the bottom towards the front wall so it can be erected after the siding is applied.

3. Repeat **Step 14** to apply gable siding. Cut and remove siding from the window opening.

4. Remove the 2x4-12' boards used for bracing on back gable and repeat **Step 16** to install the front gable.
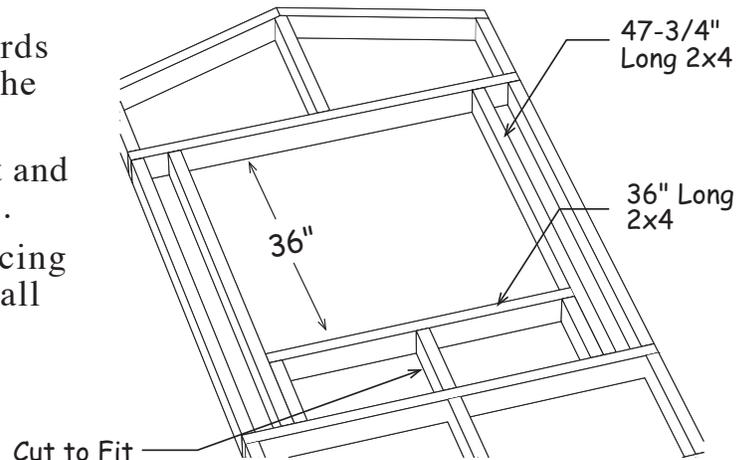
☞ *Do not remove 2x4 blocks from floor. They will be used to assemble trusses.*
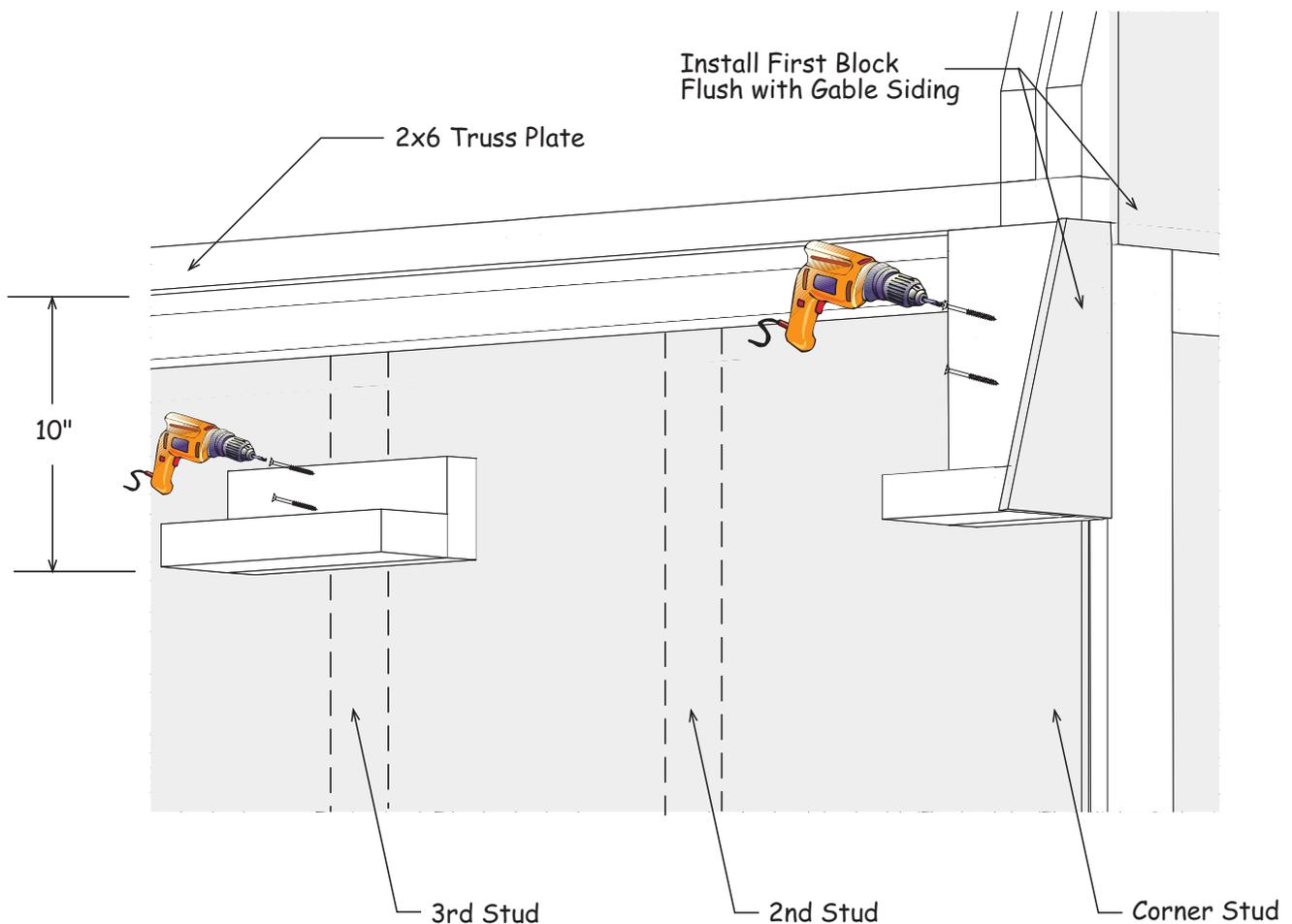
47-3/4" Long 2x4

36" Long 2x4

36"

Cut to Fit

Step 18   Install 2x6 Truss Plates

1. Install (3) three 2x6-7' and (1) one 2x6-8' as truss plates between the front and rear gable wall panels on one side wall. Cut the last 2x6 to fit saving the cut-off. The 2x6 plates should project 1-1/2" past the 2x4 tie plate (see Detail 'A'). Nail 2x6s to the floor with 10d coated sinker nails double row spaced 4" apart.

2. Repeat on opposite side wall using cut-off to finish.

3. Starting at the rear gable indicate with 'X' marks where the trusses will be located. The last space will be wider than the first (19-3/8") space.

Rear Gable

2x6 Plate on Side Wall

Front Gable

|←19-3/8"→|←   24"   →|←   24"   →|←   24"   →|←   24"   →|←   24"   →|

Rear Gable

2x6 Truss Plate

19-3/8"

24"

Detail 'A'

2x6 Truss Plate

floor
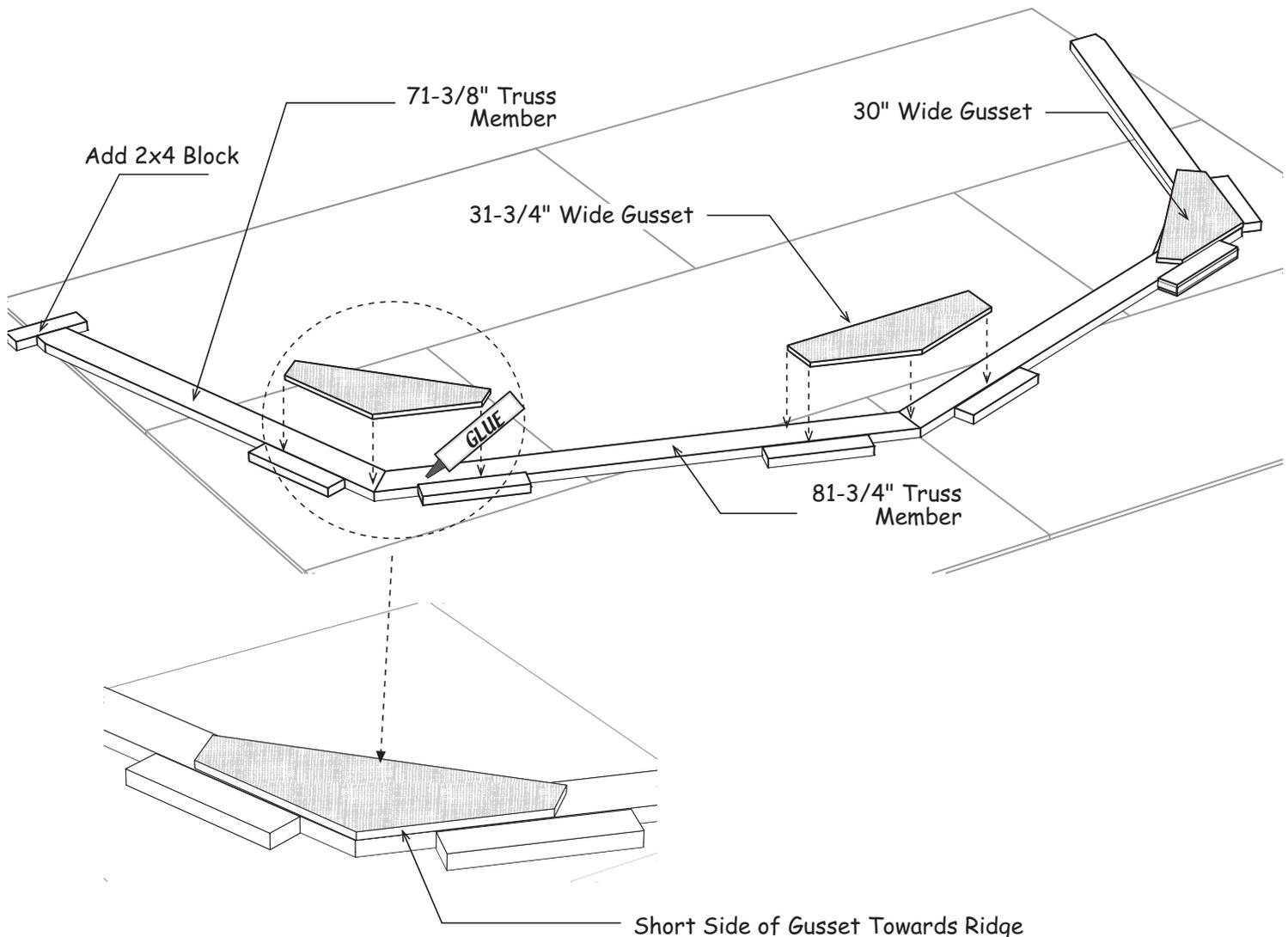
1-1/2"

2x4 Tie Plate

2x4 Top Plate

2x4 Wall Stud

Step 19   Install 2x6 Soffit Blocks

1. Locate (4) four pre-built 2x6 soffit blocks with siding attached. Starting from corner of the back wall position a soffit block with attached siding under bottom plate of gable and flush with face of gable siding. Secure to wall using (2) two 3" deck screws.

2. Locate 10" long pre-built 2x4 soffit blocks. Locate the third stud from the corner on the back wall. Center a soffit block over this stud with the 5" wide side facing down. Bottom of soffit block should be 10" from the underside of the 2x6"truss plate. Secure to stud with (2) two 3" deck screws. TIP: Use a 2x6 soffit block with siding as a gauge for proper distance.

3. Continue installing soffit blocks on every other stud down the length of the wall.

4. Install last block with attached siding flush with face of front gable siding.

5. Repeat on opposite wall.

Install First Block
Flush with Gable Siding

2x6 Truss Plate

10"

3rd Stud

2nd Stud

Corner Stud

Step 20   Assemble Roof Trusses

1. Lay truss parts inside the 2x4 blocks used around gable frames. One end of the 81-3/4" long 2x6 boards have a blue mark. Place these ends together at the ridge. Add a 2x4 block at the bottom of the truss legs to keep this 2x6 from moving.

2. Secure the 2x6 boards together using pre-cut gussets. Knee gussets are 30" wide. Ridge gusset is 31-3/4" wide. Take the gussets and the 2x6 boards and secure gussets with (3) three rows of 6d common nails spaced 6" apart. **Important**: when installing the gusset at the knee, install gusset with the shortest angled side towards the ridge. *See detail at bottom of page*.

3. Turn truss over and apply gussets to the other side. Set truss aside.

4. Assemble (10) ten more trusses. Remove 2x4 blocks from floor.

71-3/8" Truss Member

30" Wide Gusset

Add 2x4 Block

31-3/4" Wide Gusset

GLUE

81-3/4" Truss Member

Short Side of Gusset Towards Ridge

Step 21 Install Roof Trusses

1. Install 2x6 hangers over the 'X' marks on the truss plate and flush with outside edge of 2x6. Use 1-1/2" joist hanger nails. Set truss legs into hanger. Use 10d coated sinker nails to secure the truss to the metal hanger (use hanger eyelets to guide the nails at the correct angle).

2x4-12' Board

2. Remove the 2x4-12' boards used to brace the front gable. As you progress setting trusses tack these boards to keep trusses plumb. Don't remove the 2x4s until the roof sheathing is applied.

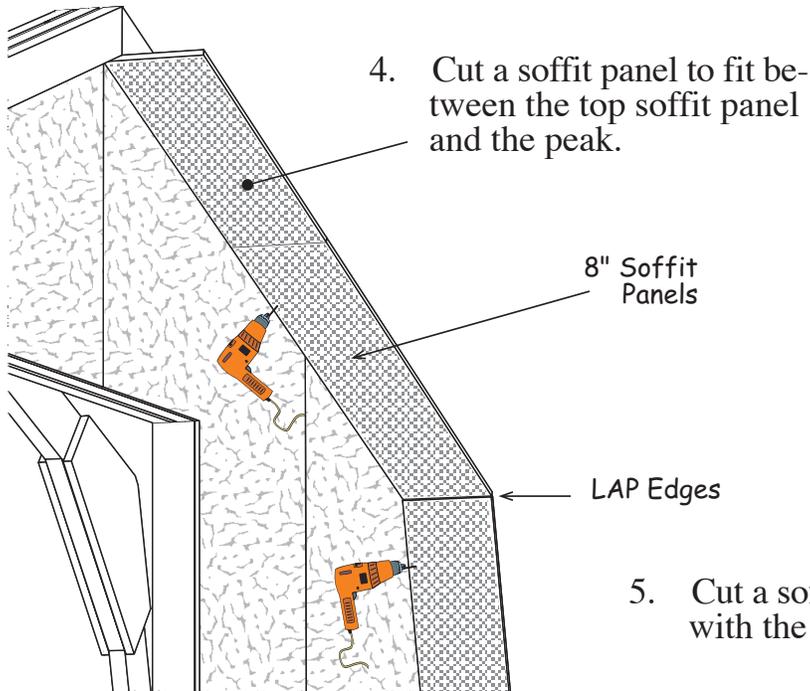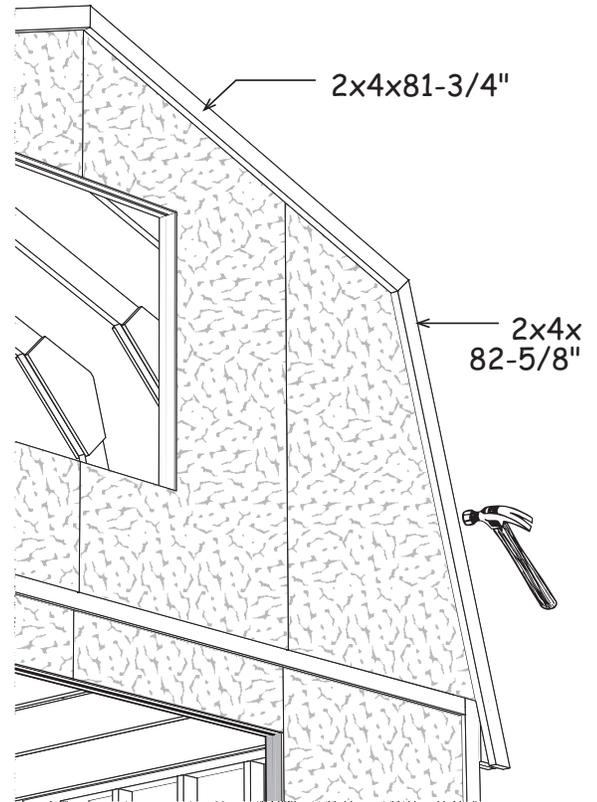2x6 Metal Hanger
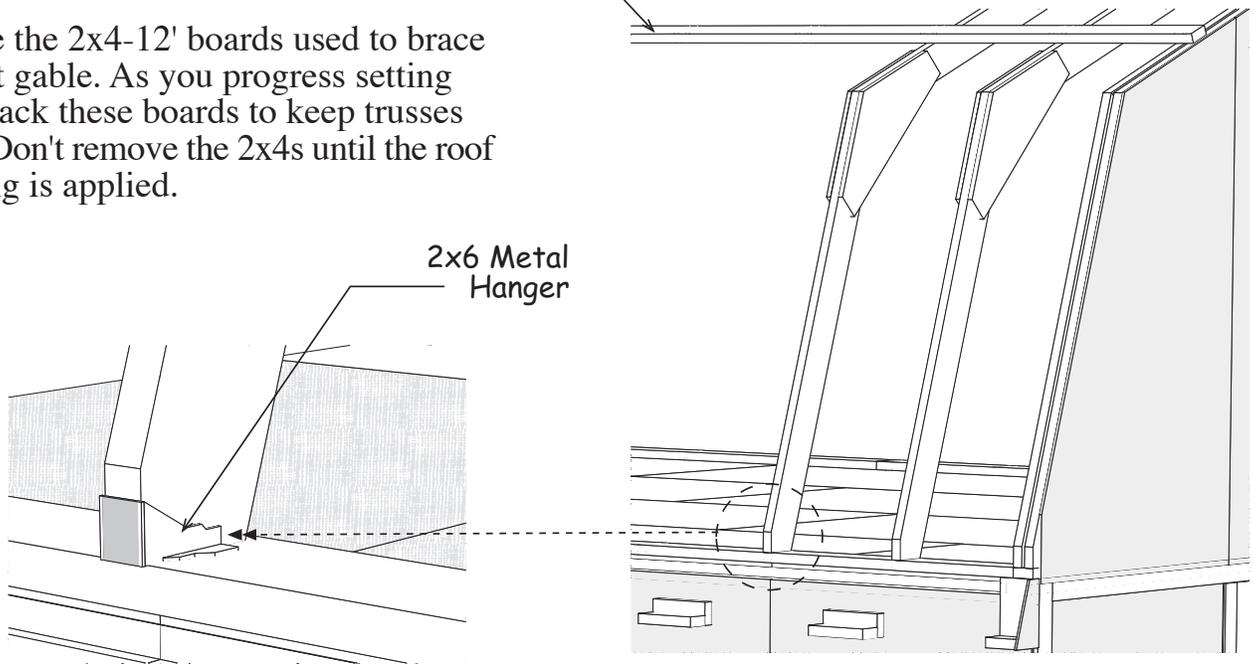
Step 22 Install Soffit & Corner Trim

1. Gather (8) eight 5-1/2" x 48-3/4" primed soffit panels. Select (1) one soffit panel and measure from 'Tongue' edge and cut to a length of 33". Install primed side down with cut edge flush with face of siding on first soffit block. Secure to each block using (2) two 1-1/4" stainless trim screws.

2. Install full length soffit panels along the side wall. At every other seam secure a short 2x4 from cut offs with trim screws. Cut the last soffit panel flush with the face of siding of last soffit block.

3. Install soffit panels on the opposite wall.
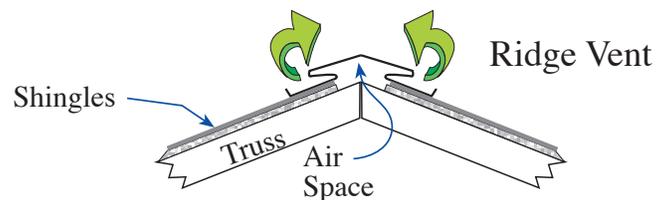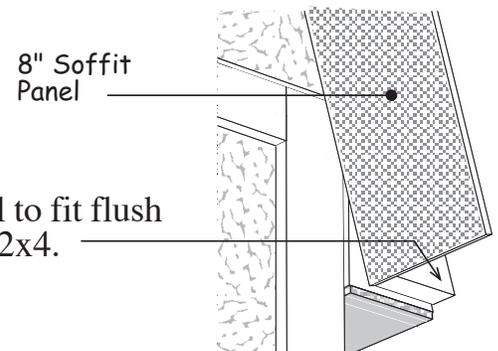
Cut Edge

'Tongue' Edge

Short 2x4
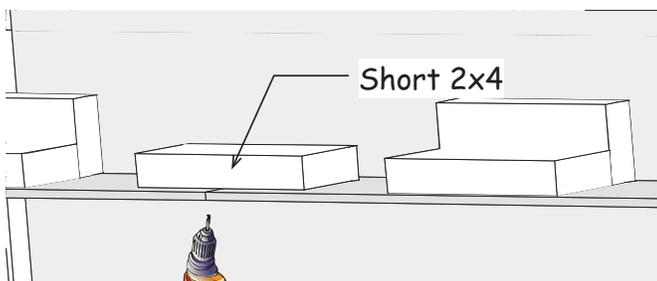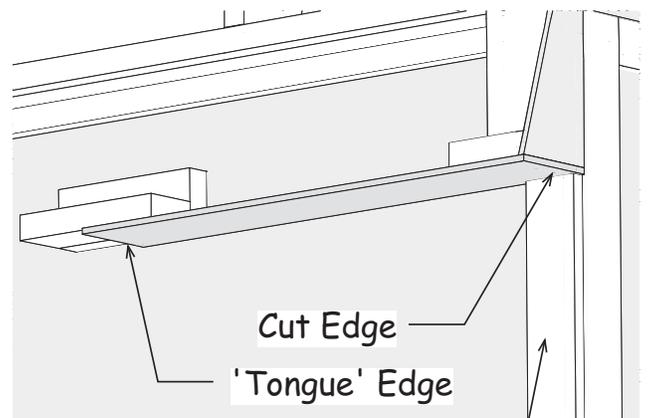
4. Install (4) four 1x4 corner trim under soffit on side walls flush with front and back wall trim. Cut 1x4-8' trim boards flush with the bottom of the siding.

Step 23   Install Front Gable Soffit

1.   Install 81-3/4" long 2x4s on the top of the front gable, flush with the top of the gable frame. Install the ends with the blue mark together at the peak of the gable. Use 10d sinkers spaced 12" apart.

2.   Install 82-5/8" long 2x4s on the side of the front gable, flush with the side of the gable frame.

3.   Install (2) two 8" wide x 48-3/4" primed soffit panels under the 2x4s with primed side down and the 'LAP' edges together at the knee of the gable. Use 1-1/4" stainless trim screws spaced 12" apart.

2x4x81-3/4"

2x4x 82-5/8"

4.   Cut a soffit panel to fit between the top soffit panel and the peak.

8" Soffit Panels

LAP Edges

8" Soffit Panel

5.   Cut a soffit panel to fit flush with the bottom 2x4.

Ridge Vent

Shingles

Truss   Air Space

Step 24A Install Roof Sheathing

1.   Refer to next page for the proper layout of the 7/16" OSB sheathing. Make certain the trusses and the gables are plumb. Install a plyclip between each truss on the top row of sheathing. If you are installing a ridge vent, cut the top row of roof sheathing 1" below the peak of the truss to allow air circulation through the ridge vent. *See detail above*. Install sheathing using 6d common nails spaced 9" apart.

Step 24B Install Roof Sheathing continued

Straight Edge

48"x59" Roof Sheathing

Gsble Knee

48"x83" Roof Sheathing
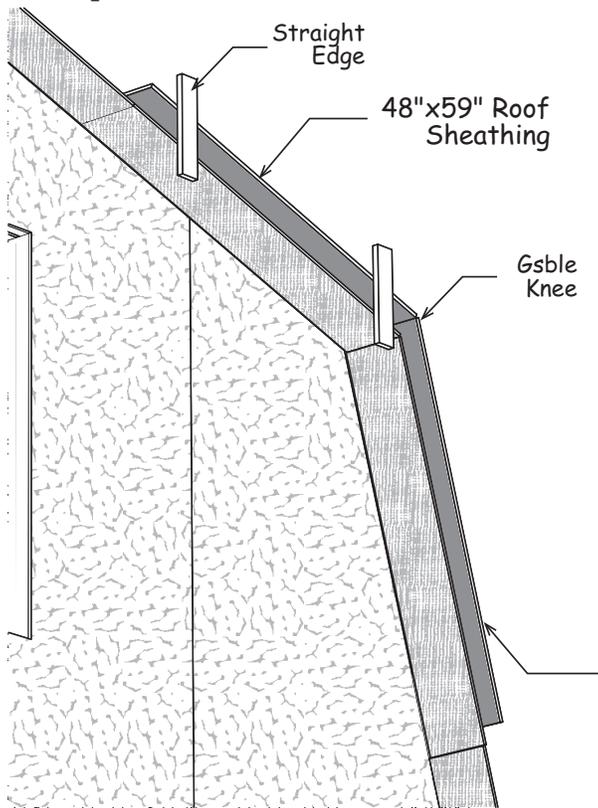
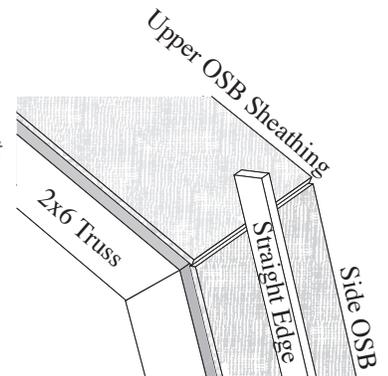2. Cut (2) two 48"x96" OSB sheets in half to make (4) four 48"x48" sheets.

3. Starting at gable knee install roof sheathing at the front of the building, *refer to the sheathing layout below*. Using a straight edge position the first sheets plumb with the soffit panels. The roof sheathing should meet at center of the trusses.

4. Cut OSB flush with back gable siding.

5. Cut the bottom row of sheathing to a width of 36" per layout.

6. Cut top row of sheathing to fit. Or, cut 1" narrower to allow for venting. Install (1) one plyclip between each truss for this row.

7. Repeat on opposite side of building.

Upper sheathing should rest on lower sheathing

Upper OSB Sheathing

2x6 Truss

Straight Edge

Side OSB

Cut Top Row Width
Install Upper Sheathing Last

Plyclip

| 83" Long | 48" Long | 96" Long | 72" Long |

| 48"x 59" | 48"x 96" | 48"x 96" | 48"x 48" |
Install this Row Second

Front Gable

| 48"x 83" | 48"x 48" | 48"x 96" | 48"x 72" |
Install this Row First

| 59" Long | 96" Long | 96" Long | 48" Long |

8" Roof Overhang

Cut This Row to 36" Width
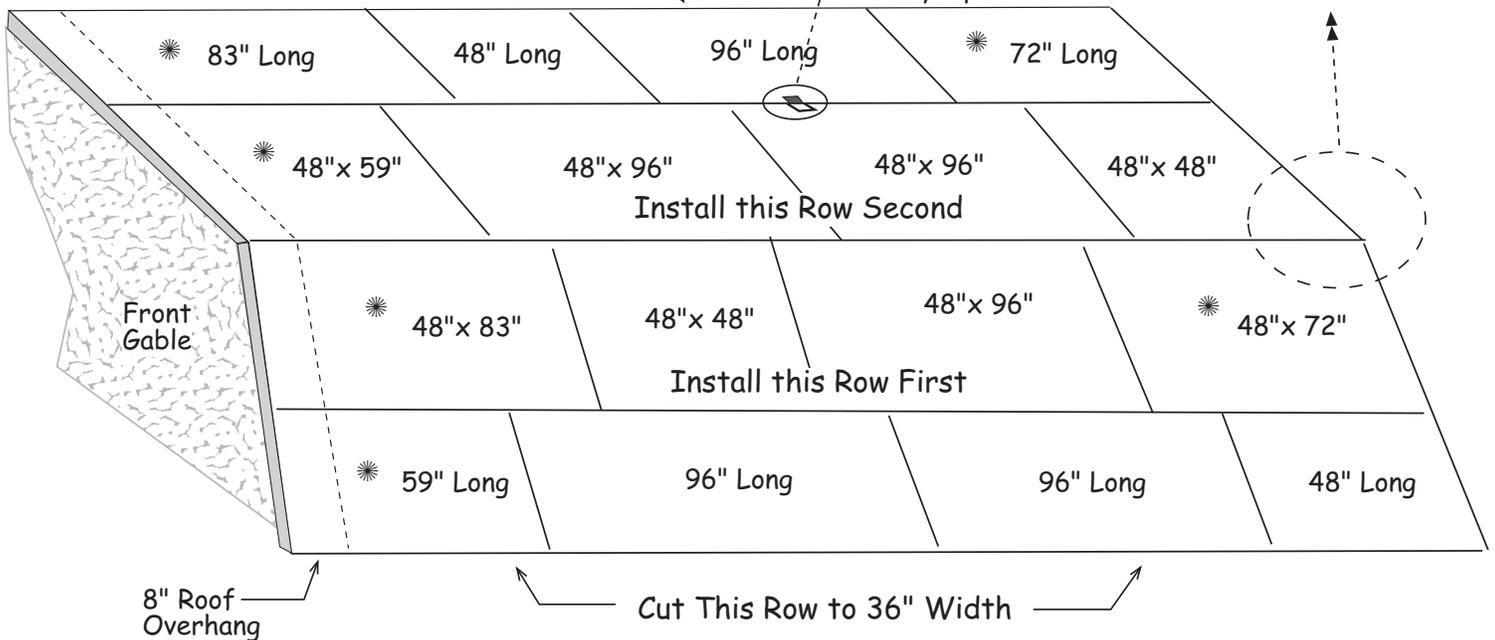
✳ Sheathing packed in Pallets

Step 25A Install Gable Trim

1. Insert a 81-3/4" long 2x4 between the soffit panels and the roof sheathing on the upper gable. Use 1-1/4" trim screws to secure the soffit panels to the 2x4s. Use 6d common to secure the roof sheathing to the 2x4s.

2. Insert and secure 82-5/8" long 2x4s between the soffit panels and the roof sheathing on the side of the gable.

2x4x81-3/4"

2x4x81-3/4"

2x4x82-5/8"

2x4x82-5/8"
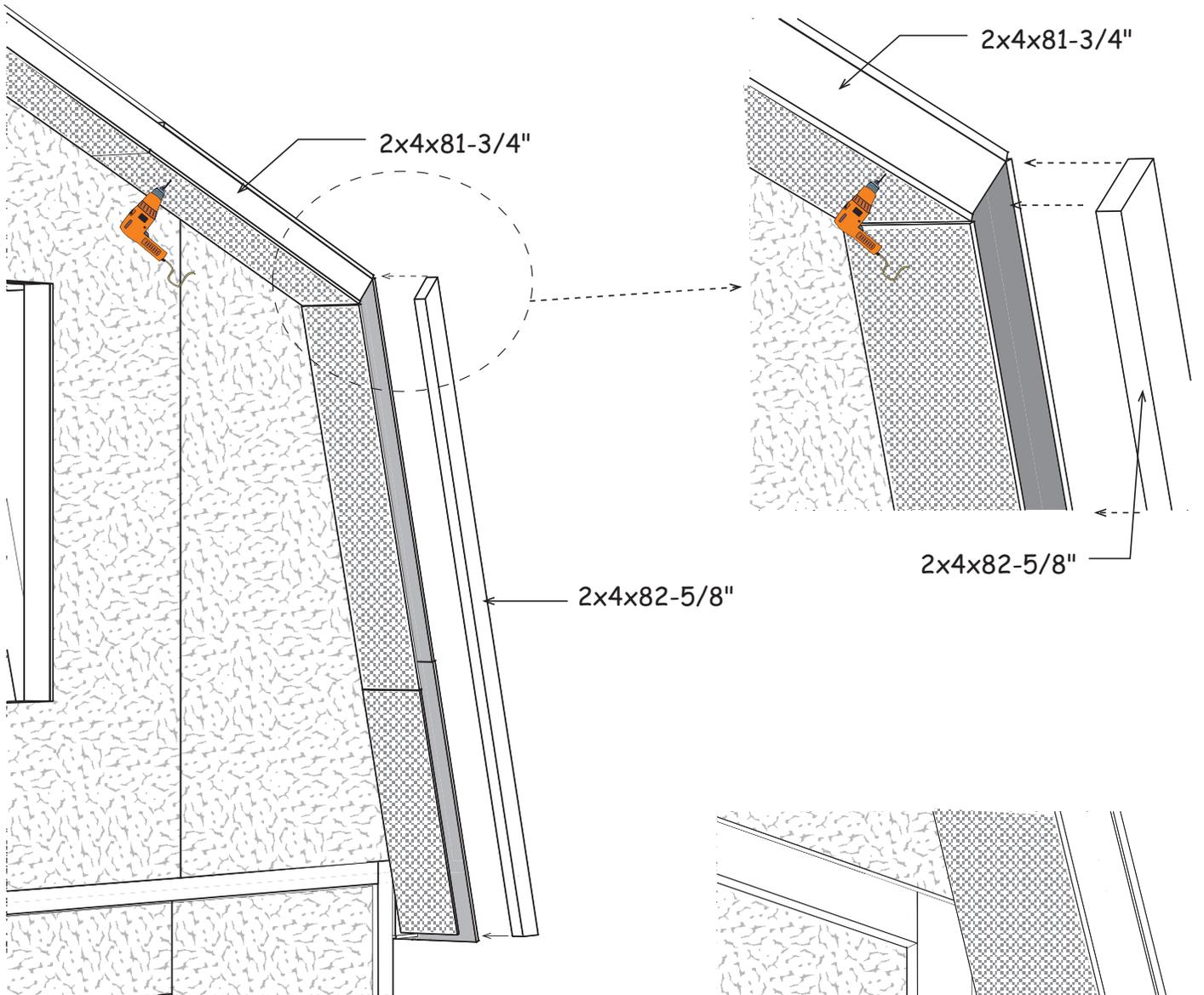
3. Install a 3-1/2" x 8" trim board to the bottom of the 2x4s using 1-1/4" trim screws.
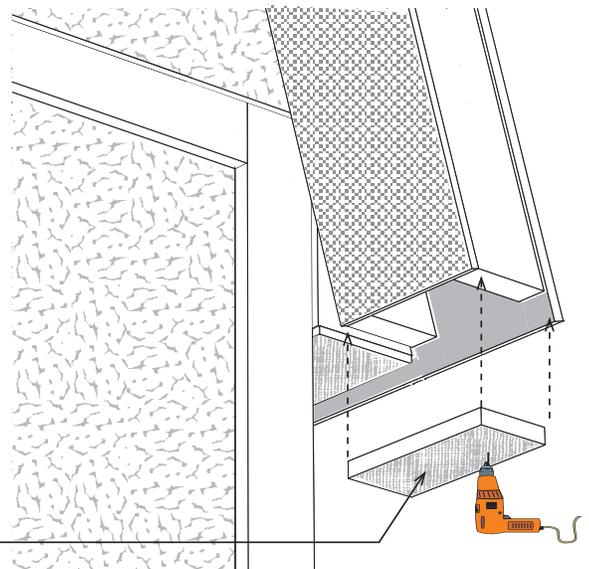
Step 25B Install Front Gable Trim continued

4. Install 82-1/4" long 1x6 trim boards at the top of the gable. Install the end with the blue marking at the ridge. Install 1x6 flush with the top of the roof sheathing. Use 8d galv. nails.

Blue Ends Together

82-1/4" long 1x6 Trim

5. Install 84" long 1x6 trim boards at the side of the gable, flush with the roof sheathing.

82-1/4" long 1x6 Trim

6. There is no overhang on the back gable. Apply trim directly to the siding flush with top of OSB roof sheathing.
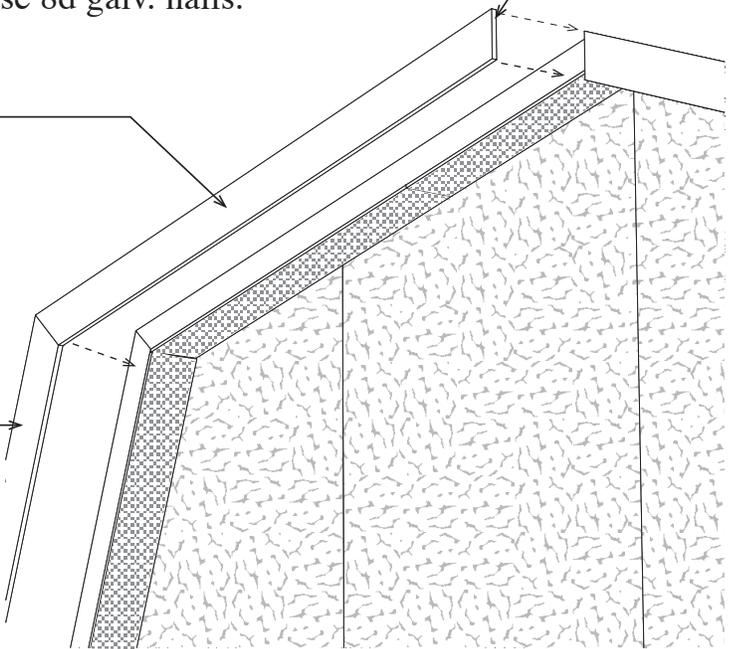
Step 26   Install 1x6 Door Jamb

1. Cut a 8' long 1x6 board to length and install under the door header, flush with the siding. Use 8d galv. nails.

2. Cut and install 1x6 x 8' boards on the sides of the door opening.

Step 27   Install 1x4 Trim Around Door Opening

1x4 Door Trim

1. Cut to length and install 1x4-8' trim boards on the sides of the door opening, flush with the 1x6 jamb . Use 8d galv. nails.

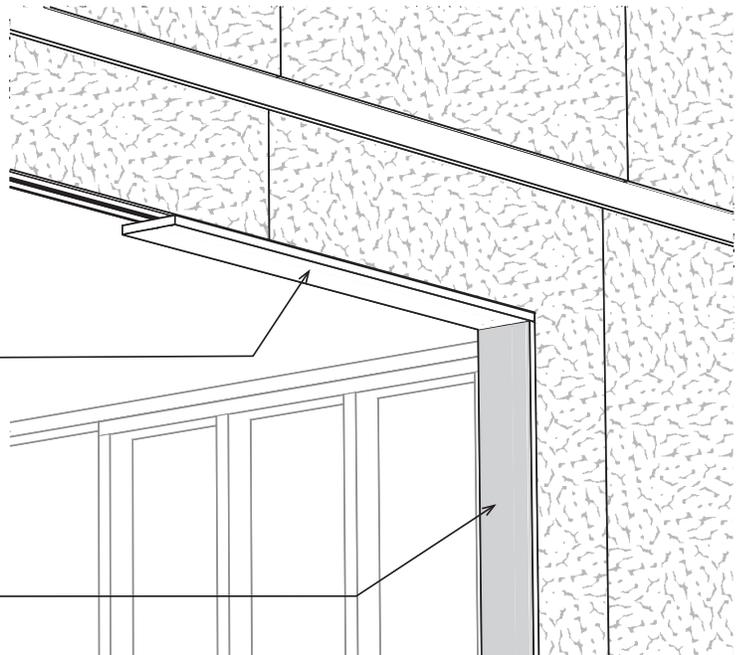2. Cut a 1x4-10' trim board to length and install centered across the door opening above the side door trim.
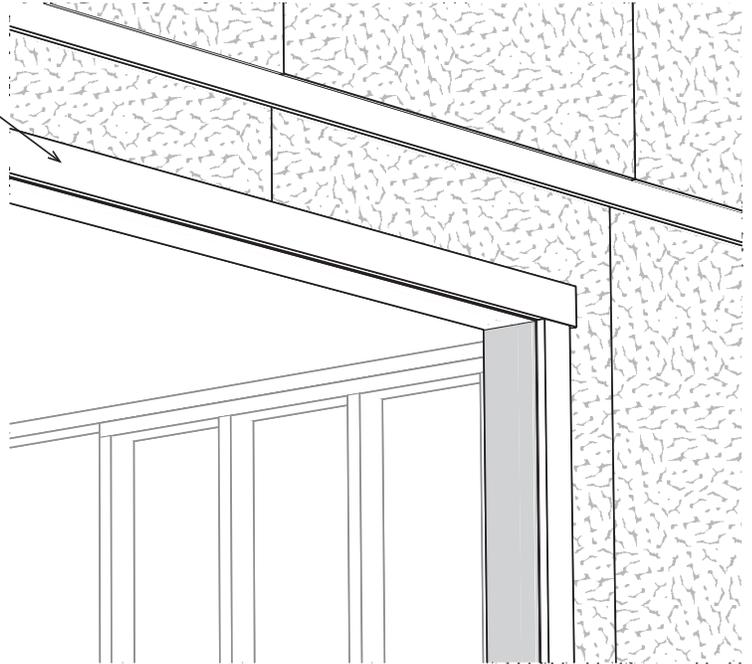
Step 28   Install 2x4s Around Door Jamb

1. Gather 2x4 boards that were used for wall and gable bracing. Cut to fit and install on the inside of the door opening. Install 2x4s on each side and across the top of door opening. Secure to stud and header with 10d sinkers.

1x6 Door Jamb

2x4 Cut to Fit

1x6 Door Jamb

2x4 Cut to Fit

VIEW FROM INSIDE
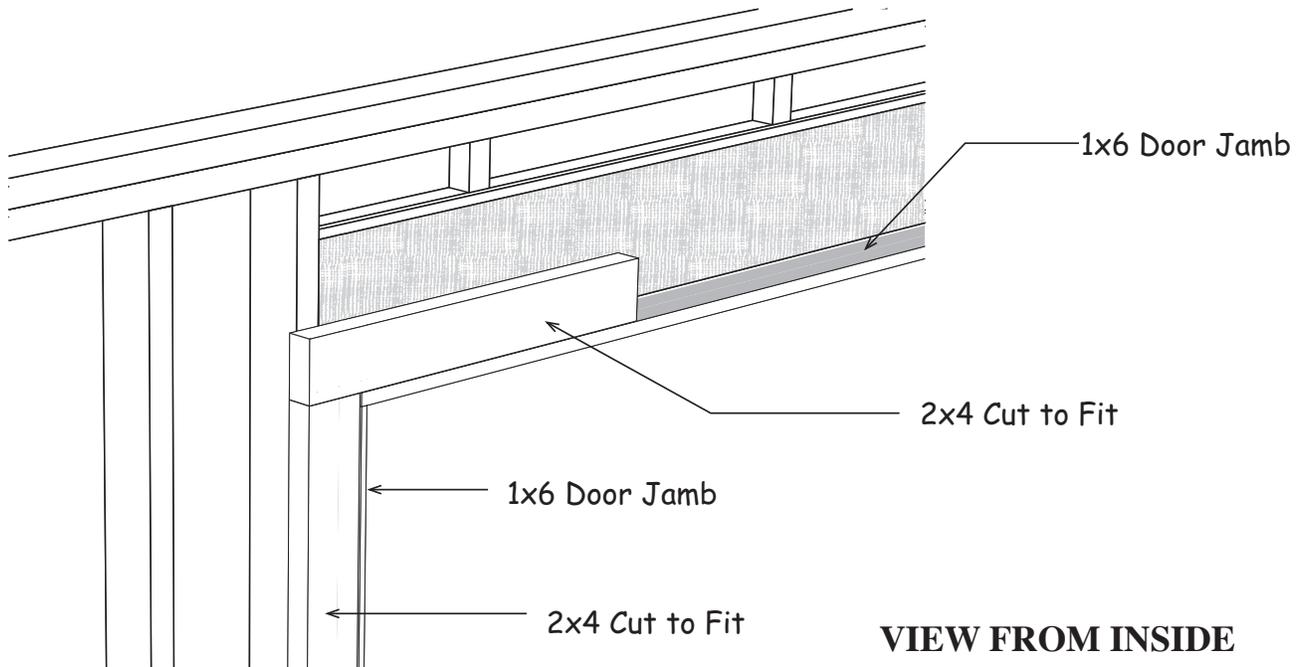
Install Roofing — Not Supplied in Kit

1. Install metal roof 'drip' edging along the perimeter of the roof.

2. Install shingles according to the instructions on the wrapper.

Optional Roof Covering		
22	bdl.	Roof Shingles
12	pcs.	Roof 'drip' Edge-10'
800	sq. ft.	Felt Paper

Packing List 16'x24'

Qty.	Hardware Breakdown 'A' Pallet		
5	lbs.	16d	Galvanized Spiral Nails
10	lbs.	10d	Coated Sinkers
15	lbs.	8d	Galvanized Nails
7	lbs.	8d	Galvanized Spiral Nails
15	lbs.	6d	Common Nails
6	lb.	1-1/2"	Hanger Nails
150	1-5/8"	Stainless Soffit Screws	
75	2-1/2"	Wood Screws	
100	3"	Wood Screws	
18	2x6	Joist Hangers	
28	2x10	Joist Hangers	
40	7/16"	Plyclips for roof sheathing	

Qty.	Material Shipped by Local Supplier		
89	2x4	-	Pre-cut Wall Studs
10	2x4	8'	Wall Plates (treated)
1	2x4	16'	Wall plates (treated)
8	2x4	8'	Framing Lumber
4	2x4	10'	Framing Lumber
8	2x4	12'	Framing Lumber
3	2x4	16'	Framing Lumber
10	1x4	8'	Trim Boards
5	1x4	10'	Trim Boards
3	1x6	8'	Door Jamb
1	2x6	8'	Tie Plate
2	2x8	10'	Door Header
3	2x10	8'	Floor Joist & Headers
5	2x10	12'	Floor Joist & Headers
13	2x10	16'	Floor Joist
12	4x8	3/4"	T&G Loft Flooring
22	4x8	3/8"	LP Primed Siding
16	4x8	7/16"	OSB Sheathing

Packing List 16'x24'

Qty.	Material Shipped on 'A' Pallet			
2	Pre-built Gable Frames	21-3/4" x		48"
2	Pre-built Gable Frames	19-1/4" x		48"
26	Truss - Legs	2x6	x	71-3/8"
6	Truss Plates	2x6	x	84"
4	Gable Overhang	2x4	x	82-5/8"
4	Gable Wall Studs	2x4	x	80-1/2"
4	Gable Wall Studs	2x4	x	72-5/8"
1	Gable Wall Studs	2x4	x	64-1/2"
6	Gable Wall Framing	2x4	x	47-3/4"
2	Front Gable Overhang Trim	1x4	x	8"
14	Soffit Blocks	2x4	x	10"
4	Soffit Blocks w/Siding	2x6	x	10"
3	7/16" OSB Sheathing	48"	x	83"
2	7/16" OSB Sheathing	48"	x	72"
4	7/16" OSB Sheathing	48"	x	59"
1	OSB Header Filler	23-3/4" x		48"
4	Truss Gussets	11-3/4" x		30"
8	LP 3/8" Siding Fillers	1-1/2"	x	48-3/4"
18	1/2" OSB Gable Fillers	(see detail below)		

1/2" OSB Gable Fillers

2 Ridge	4 Knee	12 Straight

Qty.	Material Shipped on 'B' Pallet			
26	Truss - Top Cord	2x6	x	81-3/4"
4	Gable Overhang	2x4	x	81-3/4"
3	Gable Wall Studs	2x4	x	64-1/2"
4	Gable Trim	1x6	x	84"
4	Gable Trim	1x6	x	82-1/4"
4	LP Siding Panels	80-1/2"	x	48-3/4"
2	LP Siding Panels	14-1/2"	x	48-3/4"
14	LP Primed Soffit Panels	5-1/4"	x	48-3/4"
8	LP Primed Soffit Panels	8"	x	48-3/4"
1	7/16" OSB Sheathing	48"	x	83"
2	7/16" OSB Sheathing	48"	x	72"
18	Truss Gussets	10-1/2"	x	31-3/4"
32	Truss Gussets	11-3/4"	x	30"

Qty.	Material in 4' Extension Kit	
4 ea.	2x6 x 81-3/4"	Truss Top Cord
4 ea.	2x6 x 71-3/8"	Truss Leg
4 ea.	2x4 x 10"	Truss Soffit Blocks
4 ea.	10-1/2" x 31-3/4"	Truss Gusset
8 ea.	11-3/4" x 30"	Truss Gusset
2 ea.	5-1/4" x 48"	Primed Soffit Panels
4 ea.	2x6	Metal Hangers
6 ea.	2x10	Metal Hangers