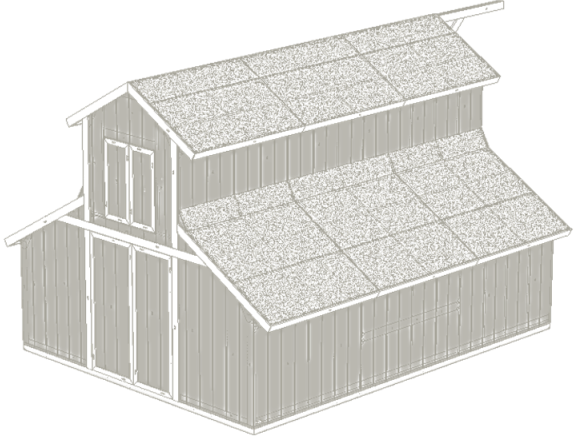


# WELCOME TO BEND A SHED



If we do not have what you are looking for, contact us. We are currently building our library and would be glad to add your design to that library.

**NOTE:**

- COSTS ARE BASED ON INTERNET PRICES AS OF 07/25/2011
- READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE STARTING
- IF YOU HAVE QUESTIONS EMAIL OR CALL BEND-A-SHED FOR ASSISTANCE

ORDER QTY	DESCRIPTION	LOWES Item	HOME DEPOT MODEL		TOTAL MATERIAL COST
	18 ft X 24 ft Shed-Barn				<b>\$ 4,292.11</b>
	MATERIAL REQUIREMENTS				
				\$ EACH	TOTAL \$
1	Shed-Barn Kit (28 Angle-Bracket's and 65 Edge-Bracket's)				\$ 995.00
1	SHIPPING (Average)				\$ 195.00
54	2 x 6 x 8 FT	30820	161713 (5.12)	\$ 4.95	\$ 267.30
13	2 x 6 x 10 FT	31100	161721 (6.23)	\$ 5.86	\$ 76.18
14	2 x 6 x 12 FT	31878	161756 (7.29)	\$ 7.05	\$ 98.70
11	2 x 6 x 14 FT	N/A	161772 (8.73)	\$ 8.73	\$ 96.03
1	2 x 6 x 16 FT	33789	161799 (9.98)	\$ 9.38	\$ 9.38
4	2 x 10 x 8 FT	43393	852481 (5.47)	\$ 7.96	\$ 31.84
85	2 x 4 x 8 FT	6005	161640 (2.72)	\$ 2.62	\$ 222.70
12	2 x 4 x 10 FT	27172	161659 (4.07)	\$ 4.07	\$ 48.84
49	2 x 4 x 12 FT	28349	161667 (4.88)	\$ 4.88	\$ 239.12
18	1 X 4 x 10 FT	941	914703 (5.82)	\$ 5.82	\$ 104.76
2	1 x 6 x 12 FT	953	914797 (9.98)	\$ 9.98	\$ 19.96
20	1 x 6 x 8 FT	951	914770 (6.57)	\$ 7.15	\$ 143.00
4	4 x 6 x 12 FT PRESSURE TREATED	9438	260430 (18.97)	\$ 17.97	\$ 71.88
4	4 X 6 X 10 FT PRESSURE TREATED	7561	N/A	\$ 14.97	\$ 59.88
8	4 X 6 X 8 FT PRESSURE TREATED	6118	N/A	\$ 11.97	\$ 95.76
12	2 X 2 X 8 FT	204231	165360 (1.48)	\$ 2.43	\$ 29.16
3	SOFFIT X 12 FT	N/A	217544 (19.47)	\$ 19.47	\$ 36.00
20	15/32 X 4 FT X 8 FT SHEATING	12247	166073 (13.67)	\$ 12.97	\$ 259.40
6	23/32 X 4 FT X 8 FT PLYWOOD	12244	166103 (16.97)	\$ 16.97	\$ 101.82
25	96 in COMPOSIT PANEL SIDING	55897	29055 (18.47)	\$ 21.88	\$ 547.00
24	BUNDLES 3 TAB SHINGLES	202050	0202350 (23.50)	\$ 21.25	\$ 510.00
2	ROLLS FELT ROOFING PAPER	N/A	258830 (16.70)	\$ 16.70	\$ 33.40

**NOTE:**

- PRICES WILL VARY FROM AREA TO AREA
- COSTS SHOWN HERE ARE BASED ON COSTS IN THE 27518 ZIP CODE

**18 ft x 24 ft Shed-Barn**

**Bend-A-Shed**

Email: [www.bendashed/contact.php](mailto:www.bendashed/contact.php)  
 Web Site: [www.bendashed.com](http://www.bendashed.com)

ORDER QTY	Item NO.	CUT QTY	DESCRIPTION	CUT LENGTH		
				FT	IN	FRAC
			<b>18 ft x 24 ft Shed-Barn</b>			
			<b>CUT LIST</b>			
<b>54</b>			<b>2 x 6 x 8 ft</b>			
	2-6-03	4	PIECES CUT AT	7	6	1/4
	2-6-05	49	PIECES CUT AT	7	10	
	2-6-13	1	PIECES CUT AT	6	0	
<b>13</b>			<b>2 x 6 x 10 ft</b>			
	2-6-10	2	PIECES CUT AT	9	1	
	2-6-12	8	PIECES CUT AT	8	0	9/16
	2-6-07	12	PIECES CUT AT	1	7	5/16
	<b>2-6-11</b>	<b>4</b>	PIECES CUT AT	7	11	1/2
	<b>2-6-15</b>	<b>4</b>	PIECES CUT AT	1	10	1/2
	<b>2-6-13</b>	<b>1</b>	PIECES CUT AT	6	0	
	<b>2-6-14</b>	<b>1</b>	PIECES CUT AT	3	8	7/16
<b>14</b>			<b>2 x 6 x 12 ft</b>			
	2-6-03	4	PIECES CUT AT	7	6	1/4
	2-6-02	<b>12</b>	PIECES CUT AT	6	0	
	2-6-04	8	PIECES CUT AT	5	4	1/4
	2-6-06	4	PIECES CUT AT	4	3	
<b>11</b>			<b>2 X 6 X 14 ft</b>			
	2-6-01	11	PIECES CUT AT	14	0	
<b>1</b>			<b>2 X 6 X 16 ft</b>			
1	2-6-09	1	PIECES CUT AT	16	0	
<b>4</b>			<b>2 X 10 X 8 ft</b>			
	2-10-01	4	PIECES CUT AT	6	6	
<b>85</b>			<b>2 x 4 x 8 ft</b>			
	2-4-11		PIECES CUT AT	7	10	
	<b>D2-4-05</b>	<b>8</b>	PIECES CUT AT	<b>4</b>	<b>2</b>	<b>1/2</b>
	<b>D2-4-03</b>	<b>8</b>	PIECES CUT AT	<b>3</b>	<b>1</b>	<b>3/8</b>
<b>12</b>			<b>2 x 4 10 ft</b>			
	<b>D2-4-02</b>	<b>8</b>	PIECES CUT AT	<b>7</b>	<b>8</b>	<b>1/2</b>
	<b>D2-4-01</b>	<b>8</b>	PIECES CUT AT	<b>3</b>	<b>1</b>	<b>1/8</b>
	<b>D2-4-04</b>	<b>8</b>	PIECES CUT AT	<b>2</b>	<b>0</b>	<b>1/8</b>
	<b>D2-4-06</b>	<b>8</b>	PIECES CUT AT	<b>1</b>	<b>10</b>	<b>1/8</b>

ORDER QTY	Item NO.	CUT QTY	DESCRIPTION	CUT LENGTH		
				FT	IN	FRAC
<b>49</b>			<b>2 x 4 12 ft</b>			
	2-4-07	4	PIECES CUT AT	8	0	1/4
	2-4-01	6	PIECES CUT AT	7	5	
	2-4-10	4	PIECES CUT AT	6	11	1/8
	2-4-05	2	PIECES CUT AT	6	4	1/4
	2-4-03	4	PIECES CUT AT	5	11	7/16
	2-4-08	4	PIECES CUT AT	5	9	
	2-4-06	4	PIECES CUT AT	5	1	
	2-4-12	12	PIECES CUT AT	5	0	7/16
	2-4-09	12	PIECES CUT AT	4	8	
	2-4-20	4	PIECES CUT AT	4	6	
	2-4-25	2	PIECES CUT AT	4	3	
	2-4-15	<b>6</b>	PIECES CUT AT	2	11	3/8
	2-4-27	4	PIECES CUT AT	2	7	3/16
	2-4-21	<b>12</b>	PIECES CUT AT	2	3	1/2
	<b>2-4-16</b>	<b>6</b>	PIECES CUT AT	<b>1</b>	<b>10</b>	<b>1/2</b>
	2-4-17	12	PIECES CUT AT	1	10	
	2-4-13	6	PIECES CUT AT	1	6	9/16
	2-4-19	4	PIECES CUT AT	1	6	
	2-4-14	6	PIECES CUT AT	1	4	3/4
	2-4-04	4	PIECES CUT AT	1	1	3/8
	<b>2-4-02</b>	<b>8</b>	PIECES CUT AT	<b>1</b>	<b>0</b>	
	<b>2-4-26</b>	<b>4</b>	PIECES CUT AT		<b>11</b>	<b>15/16</b>
	<b>2-4-18</b>	<b>50</b>	PIECES CUT AT		<b>6</b>	
<b>18</b>			<b>1 x 4 x 10 ft</b>			
	<b>D-4-04</b>	<b>8</b>	PIECES CUT AT	<b>7</b>	<b>11</b>	<b>1/2</b>
	<b>D-4-06</b>	<b>8</b>	PIECES CUT AT	<b>4</b>	<b>5</b>	<b>1/2</b>
	<b>D-4-01</b>	<b>8</b>	PIECES CUT AT	<b>3</b>	<b>1</b>	<b>1/8</b>
	<b>D-4-05</b>	<b>8</b>	PIECES CUT AT	<b>1</b>	<b>11</b>	<b>5/8</b>
	<b>D-4-03</b>	<b>8</b>	PIECES CUT AT	<b>3</b>	<b>1</b>	<b>3/8</b>
<b>6</b>			<b>4x6x12 PRESSURE TREATED</b>			
	<b>4-6-01</b>	<b>4</b>	Cut to a total of	<b>18</b>	<b>0</b>	
	<b>4-6-02</b>	<b>4</b>	Cut to a total of	<b>24</b>	<b>0</b>	

# Bend-A-Shed 18 ft x 24 ft Shed-Barn

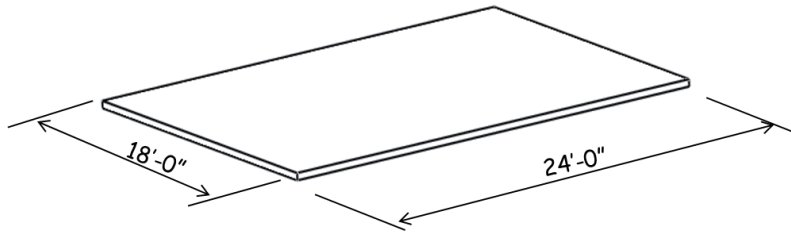
## BOM Cut List

**Bend-A-Shed**

Email: [www.bendashed/contact.php](mailto:www.bendashed/contact.php)  
Web Site: [www.bendashed.com](http://www.bendashed.com)

**NOTE:**

- If the Shed-Barn is erected on a concrete slab, consult your local concrete contractor for the specifications required for the slab
- Ask your contractor if footings will be required for this structure
- The Shed-Barn weighs about 13,000 pounds
- You will need to have a drill that will drill at least a ½ diameter hole in concrete
- Check your local tool rental outlets for a hammer drill and bits for the anchor bolts you have selected
- One source for purchase or reference is Red Head Anchors (Link Below)
- [http://www.itw-redhead.com/rh\\_as\\_intro.asp](http://www.itw-redhead.com/rh_as_intro.asp)



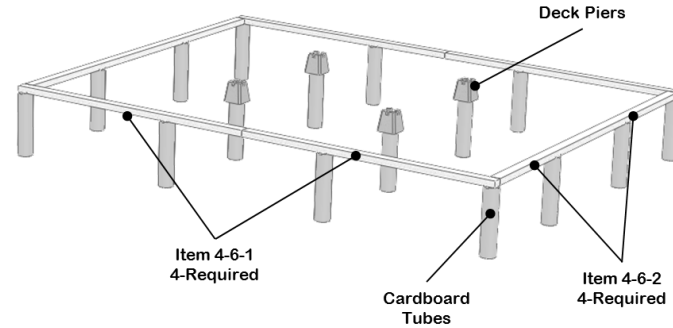
**CONCRETE CALCULATIONS**

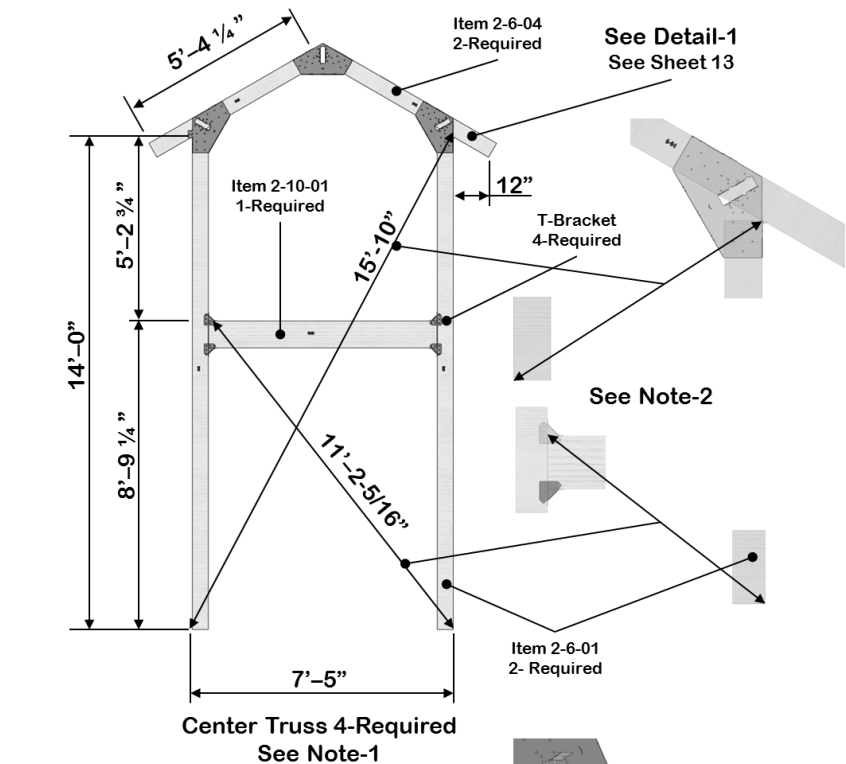
WIDTH IN FEET DIVIDED BY 3	$18/3=6$
LENGTH IN FEET DIVIDED BY 3	$24/3=8$
THICKNESS IN FEET DIVIDED BY 3 ( $4"/12=0.33$ )	$0.33/3=.11$
MULTIPLY EACH TIMES THE OTHER	$6 \times 8 \times 0.11 = 5.3$

YOU WOULD NEED TO ORDER 5 ½ TO 6 YARDS OF CONCRETE

**NOTE:**

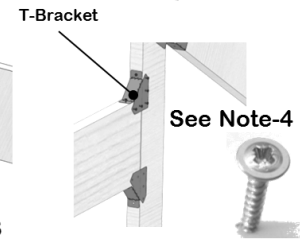
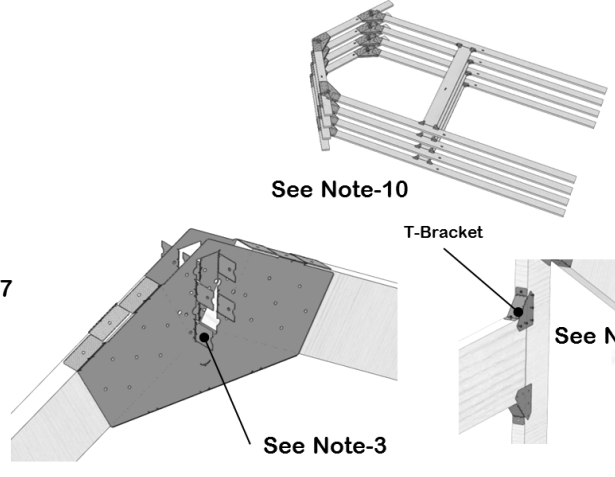
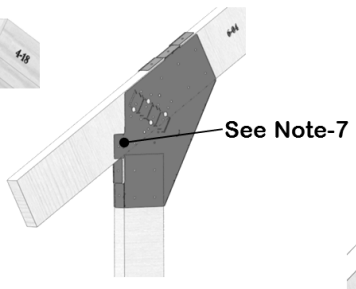
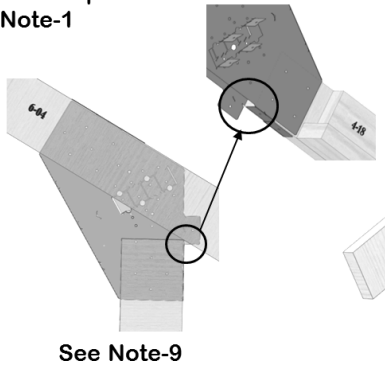
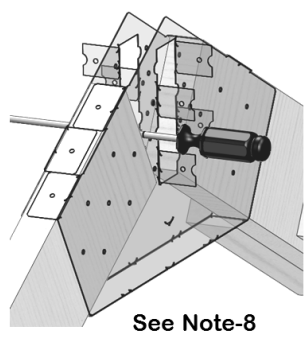
- If your shed is not going to have a concrete floor, this option may be for you
- The use of cardboard tubes filled with concrete works well and is easy to level (These can be found at any lumber store that sells concrete supplies. Cut to the length required and set in place)
- After the tubes are set, level and fill with concrete.
- Anchor bolts can be set in the concrete as well
- Then placing pressure treated 4x6's on the footings will set up the perimeter of the shed-barn
- Deck piers can be set on the center tubes for the center frame posts
- The floor may be earth or stone dust
- A concrete pad can be poured at a later date

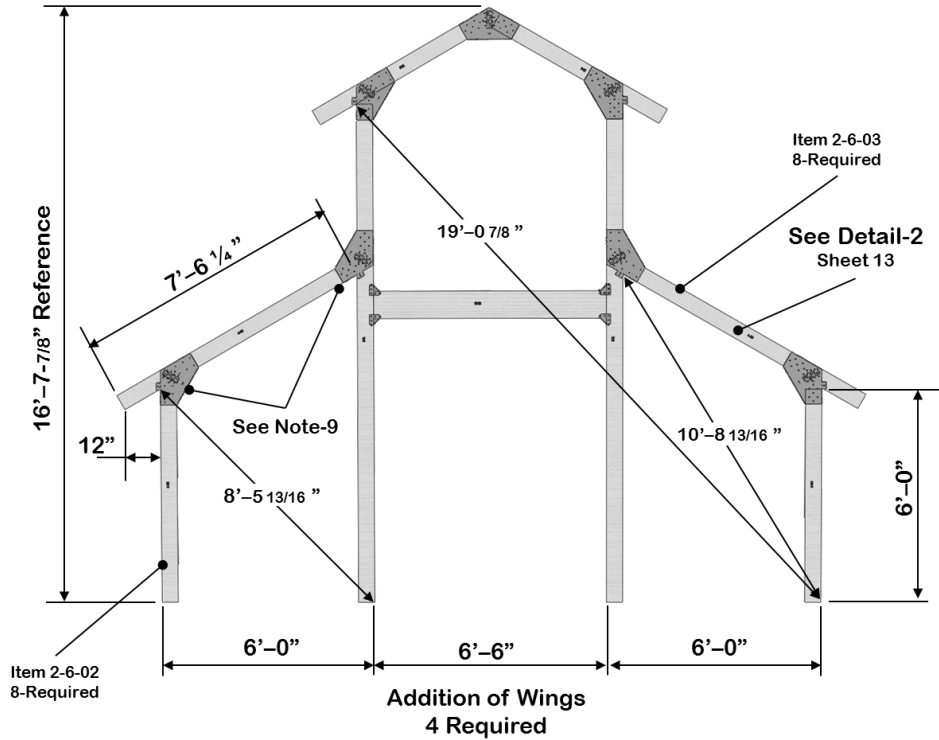




**Note:**

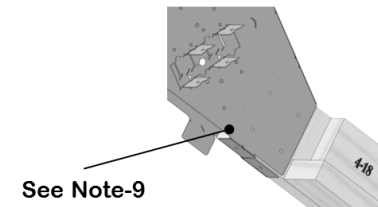
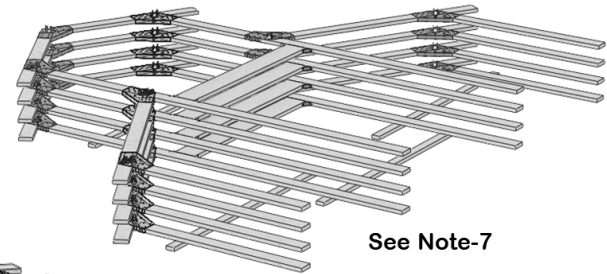
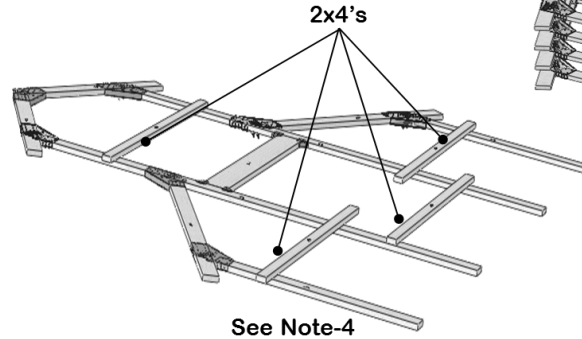
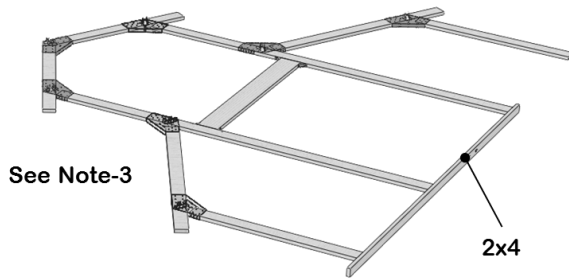
1. You will need to make 4 of these frames
2. Cross corner measurements are critical for the first unit. This will insure that you will stay square throughout the build. Your dimensions may vary slightly (see appendices sheet 28)
3. Do not fold these tabs on all Angle-Brackets until you are ready to attach the mating board
4. Flush Head #8x1 1/2 screws are recommended. They provide a low profile that will allow mating parts to set as close as possible to the bracket. Typical all brackets.
5. Make sure you watch the video on the Bend-A-Shed web site showing you how to fold the Angle-Bracket and T-Bracket. There is also an instructional document that can be downloaded or printed and is also included in the kit
6. When all of the members are square and at their proper location secure all members with screws.
7. This tab needs to stay flat to allow the mating board to pass through the Angle-Bracket
8. In order to maintain designed dimensions insert screw driver as shown and butt the mating board against screw driver
9. In order to maintain designed dimensions align Item 2-6-01 with the edge of the Angle-Bracket flange
10. Use the first frame as a template to build the next three

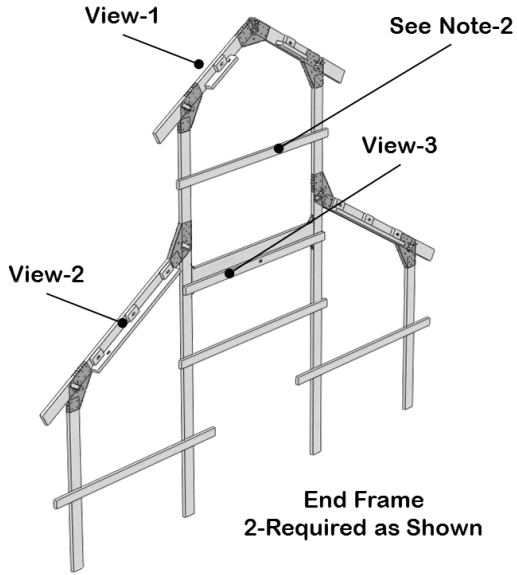




**Note:**

1. You will need to make 4 of these frames to this state
2. Cross corner measurements are critical for the first unit. This will insure that you will stay square throughout the build (see appendices sheet 28)
3. Use a 2x4 tacked to the center frame to assist in getting the wings square and in the right position
4. When you have the frame square and screwed together tack 2x4's as shown to make handling of the frame easier
5. The frame will weigh about 140 pounds at this point
6. Use the first frame as a template to build the next three
7. Turn the frame over to expose the flat side of the frame as a template to build the other three frames
8. Tack 2x4's to the frames as you build them
9. Align the end of Item 2-6-03 and 2-6-02 with the edge of the Angle-Bracket flange as shown

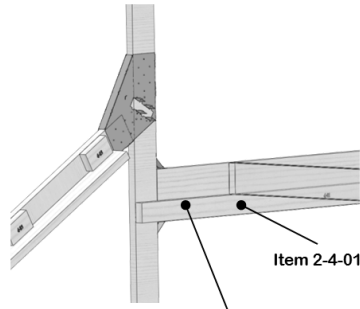




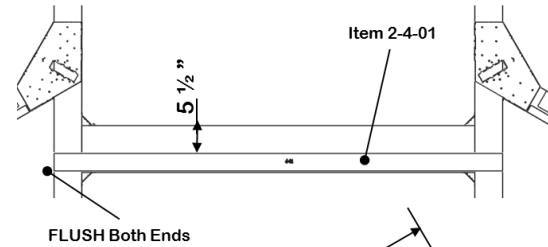
End Frame  
2-Required as Shown

**Note:**

1. You will need two of these frames for front and back.
2. Do not remove temporary 2x4's until the frame has been erected
3. These 2x4's are positioned to make installing the roof rafter easy and more accurate, because you have done it on the ground instead of hanging off a ladder trying to measure and hold the boards in place
4. Item 2-4-09 and 2-4-19 is flush with the bottom of Item 2-6-04 and 2-6-03. This is added to be able to have a place to nail the wall studs
5. 2x4-01 is for a ledge for the floor joists. This makes installation easier and creates a stronger mounting point

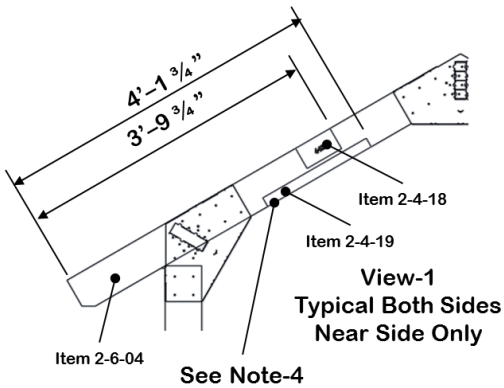


See Note-5

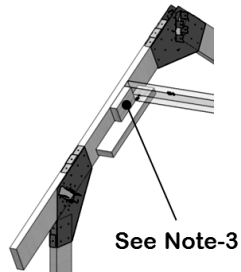


FLUSH Both Ends

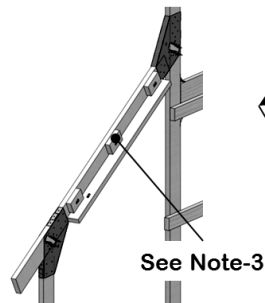
View-3  
Near Side Only



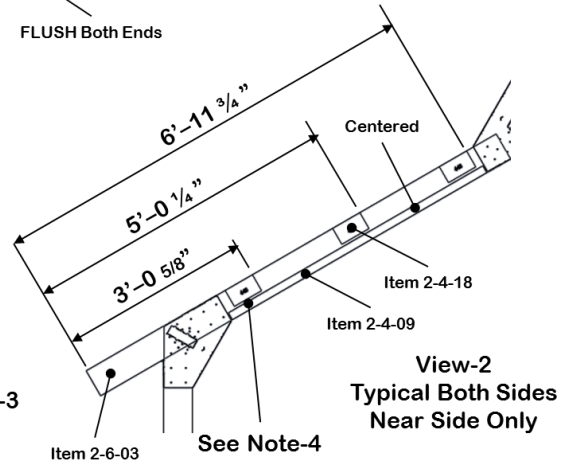
View-1  
Typical Both Sides  
Near Side Only



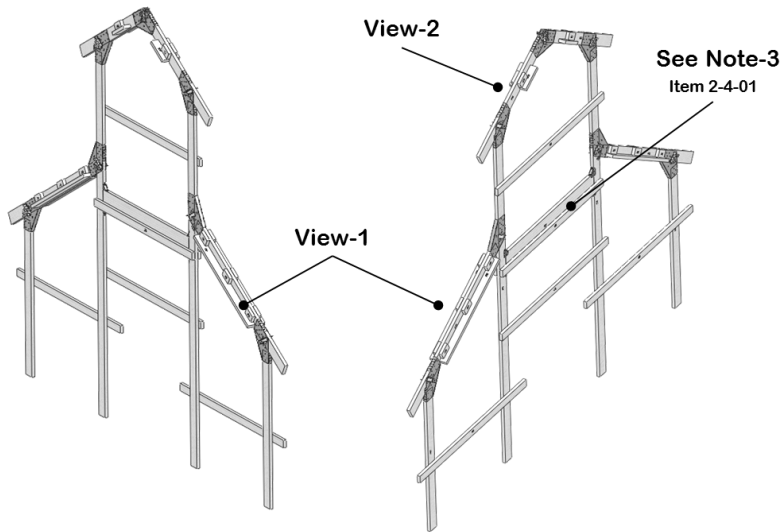
See Note-3



See Note-3



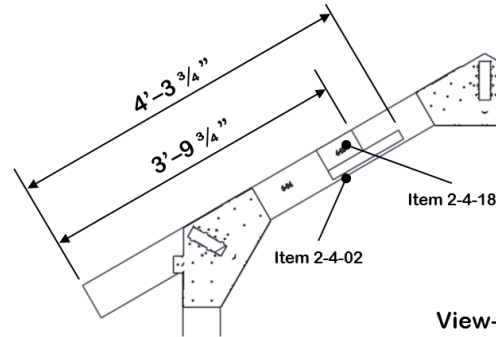
View-2  
Typical Both Sides  
Near Side Only



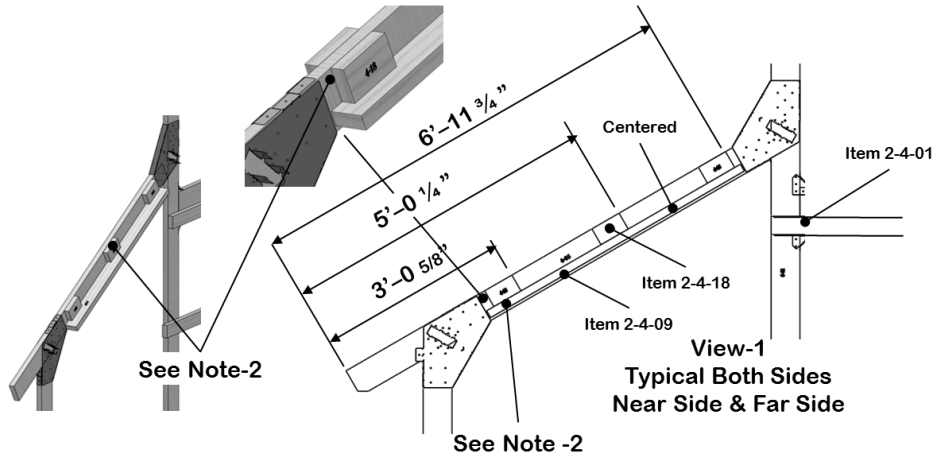
Center Frame  
2-Required as Shown

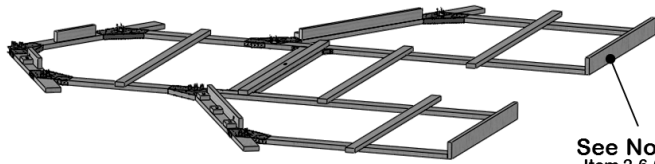
**Note:**

1. You will need two of these frames
2. Item-2-4-09 on the center sections is flush with the bottom of Item-2-4-18. Its only purpose here is to support one end of the rafter while it is nailed in place
3. Floor joist ledge Item-2-4-01 is positioned the same as the end frame
4. Rafter and joist supports and locators are nailed to both sides of the frame
5. Leave temporary 2x4's in place until the frame is installed and secure
6. See appendices sheet 28 for nailing suggestions

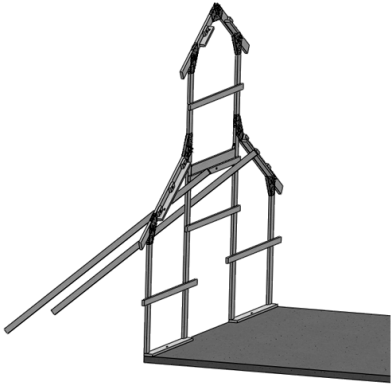


View-2  
Typical Both Sides  
Near Side & Far Side



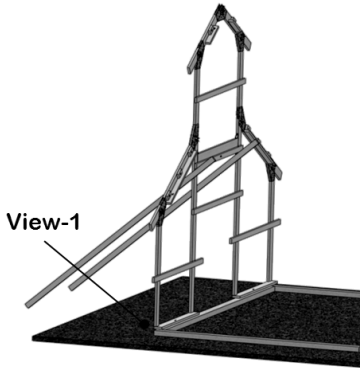


See Note-1  
Item 2-6-02

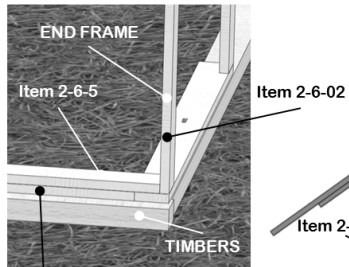


On Slab  
See Note-2

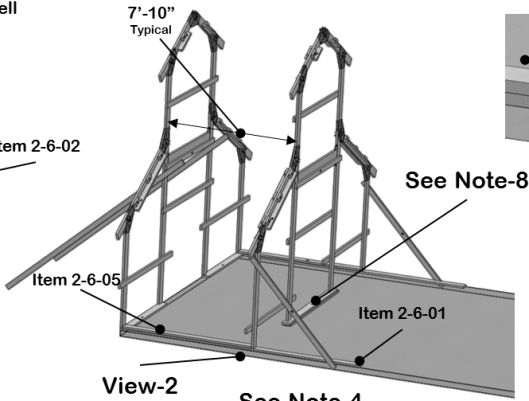
It is recommended to use 4x6 PT timbers on concrete as well



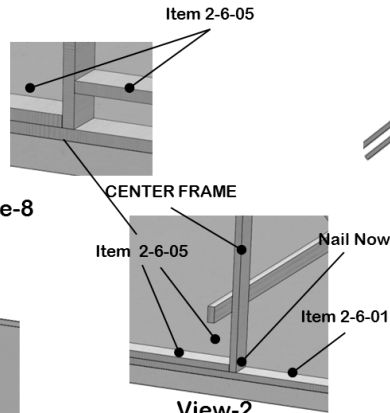
On Timbers  
See Note-2



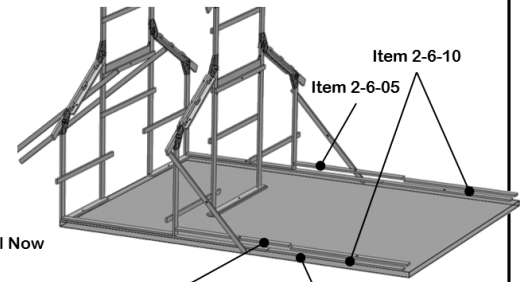
Item 2-6-01  
View-1  
See Note 3



View-2  
See Note-4



View-2  
See Note-5

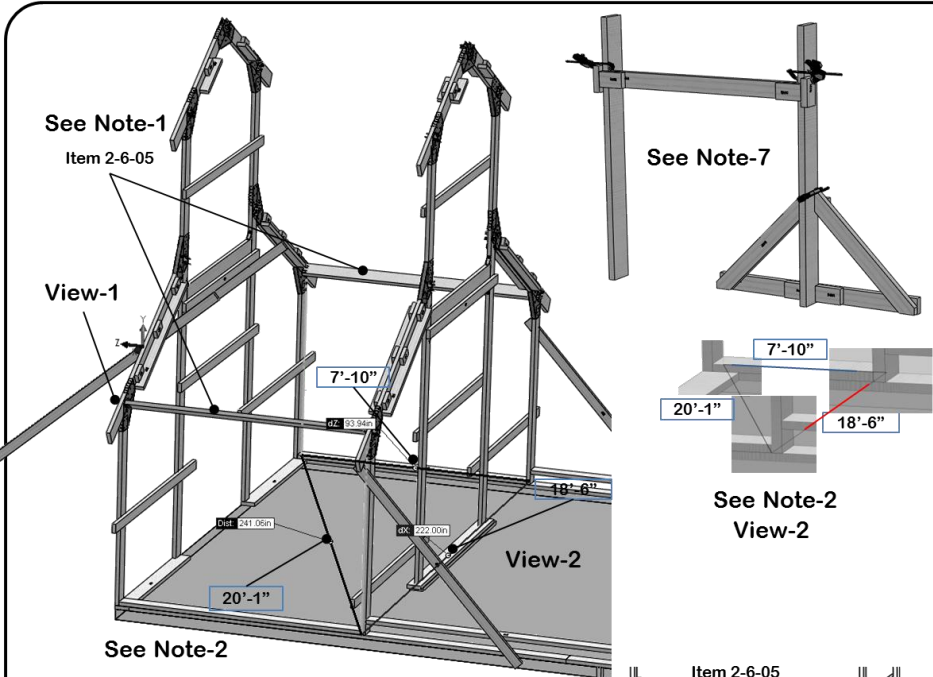


See Note-11  
See Note-10

**Note:**

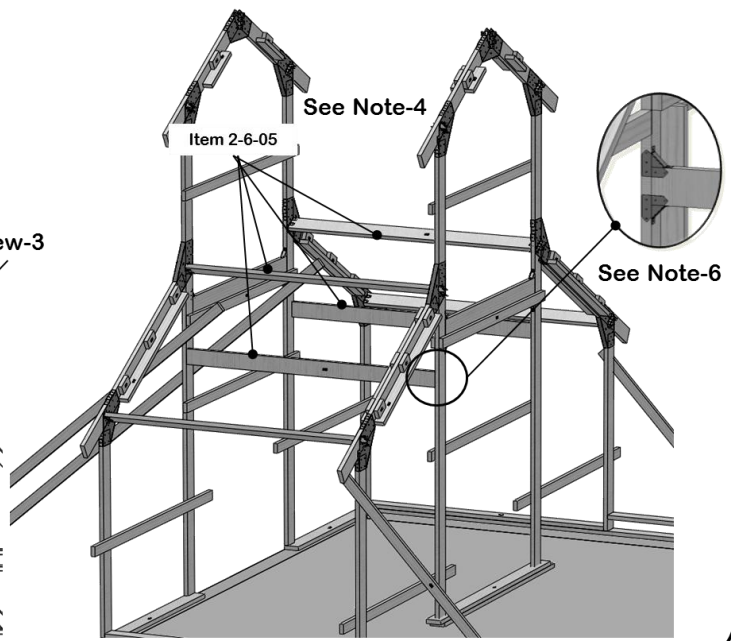
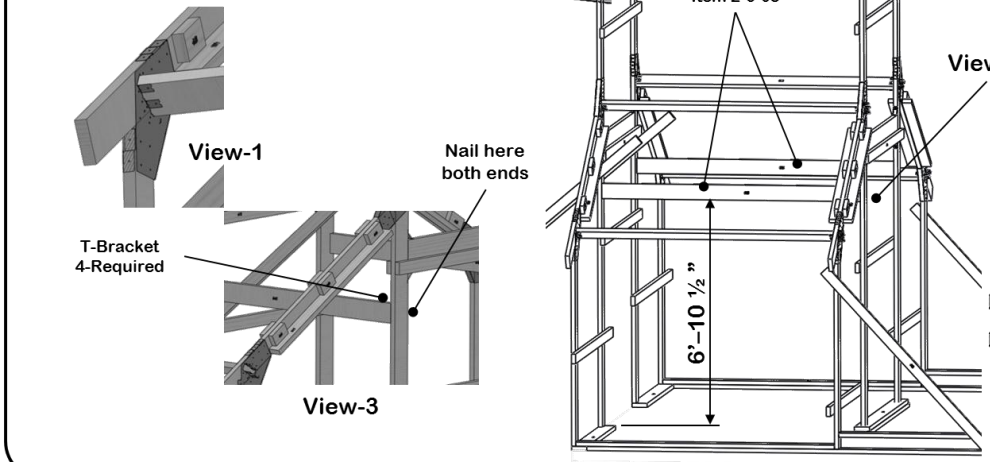
1. Nail Item-2-6-02 as shown flush with the inside and outside edge of truss legs. Repeat this for the opposite end
2. Use two 2x4's as push poles to push the first end frame upright onto the timbers. Use a pointed short 2x4 to drive into the ground and tack to the 2x4 push pole holding up the end frame (note when doing this it helps to back up the nailing process with another hammer)
3. Lay Item-2-6-01 down on pad or timber butting up against Item 2-6-02 on both sides. Then lay Item 2-6-05 on top of Item 2-6-01 up against end frame and tack in place (note concrete could be poured inside timbers at a later date)
4. When standing up the second center frame brace it the same as the end frame
5. When standing center frame use Item 2-6-05 as a stop to bump up against. This will keep the frame from sliding and establish the 7'-10" dimension
6. When in position nail the center frame to Item 2-6-05 as shown in View-2
7. Repeat for the opposite side
8. Use two 2x6's to shore up the distance of the center frame members to the floor
9. Make sure that all personal are out of the way of a frame possibly falling over
10. Position Item 2-6-10 on the slab or timbers butted up against Item 2-6-01
11. The four Item 2-6-05's will be positioned and nailed in place as the other frames are stood up

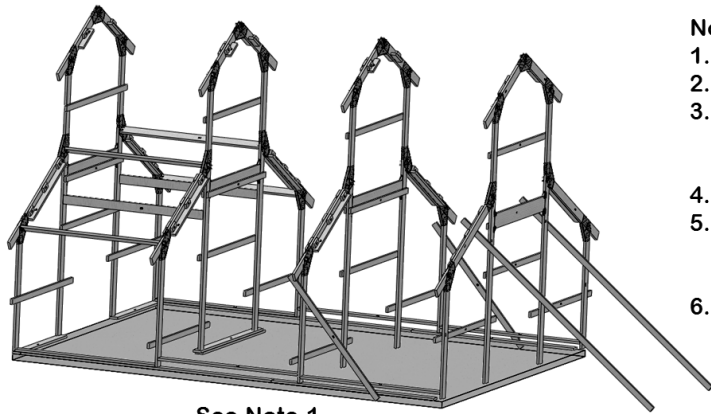




**Note:**

1. Install two Item 2-6-5's as shown and make sure that end frame is square with sill plates as shown in View-2. Position as shown in View-1 and screw in place
2. Again it's time to do some cross corner measurements. The measurements here are accurate if taken from the same points as shown. If yours are slightly different don't worry just make sure that they are the same from one side to the other.
3. This process will have to be repeated with the standing of each frame member. Pick you points to measure and make them the same from corner to corner
4. Install 4 more Item 2-6-5's as shown
5. Remove support bracing to use on the other frames
6. Secure this Item 2-6-05 with 4 T-Brackets
7. For additional assembly clamps see Support Tools on Bend-A-Shed web site Instruction Tab

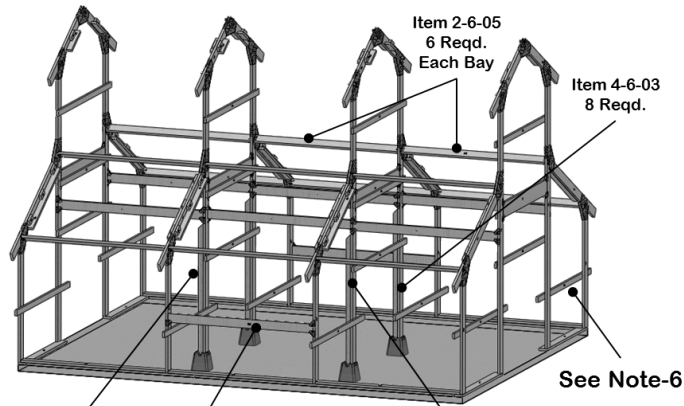




See Note-1

**Note:**

1. Repeat for the last two frames
2. View-2 shows the end result of the frame erection
3. Install 4x6 post Item 4-6-01 on each side of the 4 center frame legs and lag screw together. Mount hard on the concrete floor or footing. The interior legs need additional support to protect from possible impact
4. Install Item-2-6-5 as shown and secure with 4 T-Brackets this side and far side
5. Install the remaining Item-2-6-5's in each bay and secure with 4 T-Bracket each end. The center bay will have to be installed on the inside of frame leg as shown in View-3
6. Remove the 2x4 braces when they prevent you from installing other items

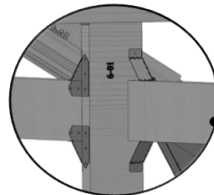
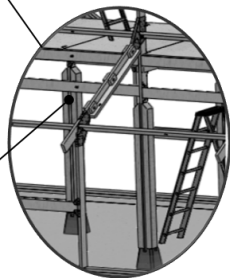


View-1

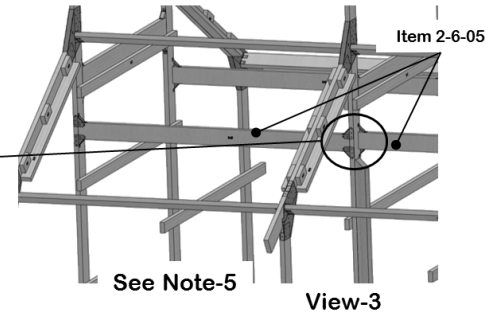
View-2

See Note-2

See Note-3

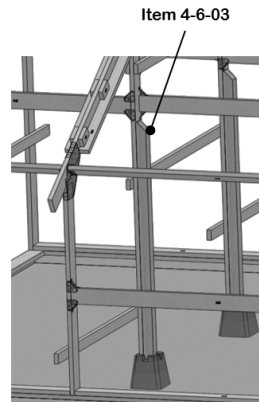


See Previous Page For Dimensions



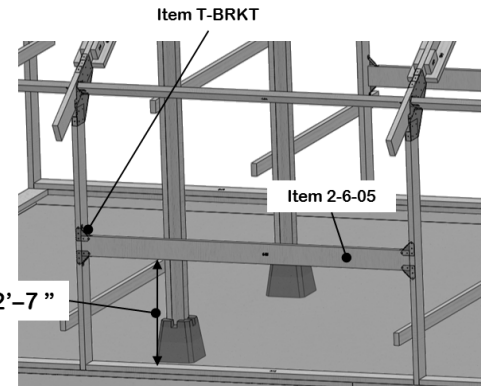
See Note-5

View-3



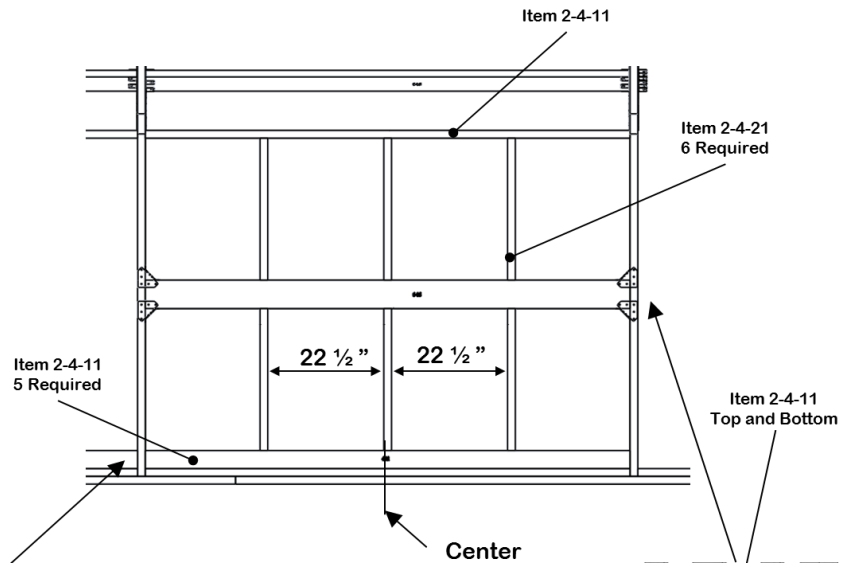
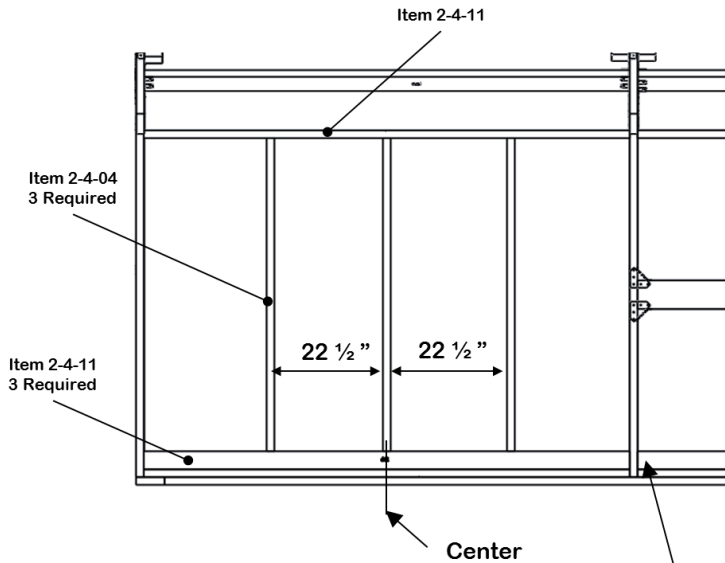
View-1

See Note-3



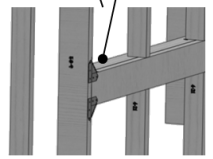
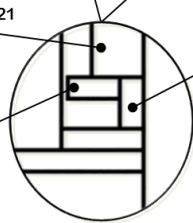
View-2

See Note-4



**Detail-03**  
4 Places

**Detail-04**  
2 Places



**Materials Required this sheet:**

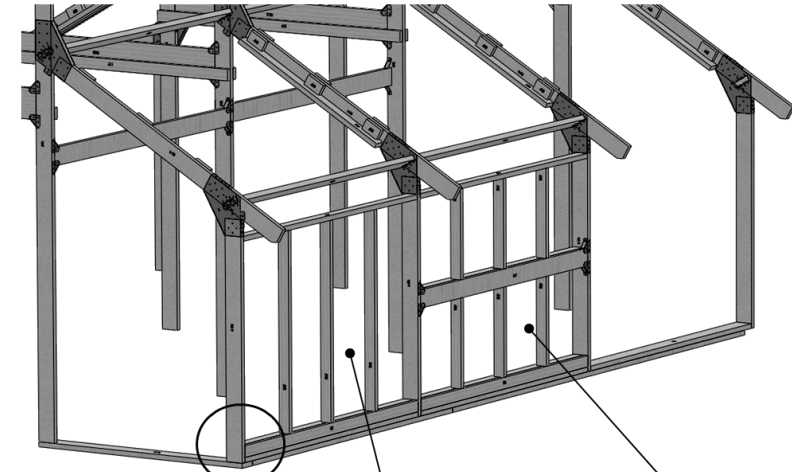
22	Item 2-4-11	2x4x 7'-10"
12	Item 2-4-04	2x4x 5'-0 1/2 "
12	Item 2-4-21	2x4x 2'-3 1/2 "

**Part Details**  
**18 ft x 24 ft Shed-Barn**

**Bend-A-Shed**  
Email: [www.bendashed/contact.php](mailto:www.bendashed/contact.php)  
Web Site: [www.bendashed.com](http://www.bendashed.com)

**Note:**

1. Erect the stud walls at each corner and the center section on the lower walls
2. This view demonstrates how Bend-A-Shed design builds strength where it does the most good. This is typical where ever possible
3. The T-Brackets here are part of building strength into the structure of the Shed-Barn. Install 4 T-Brackets as shown on each corner

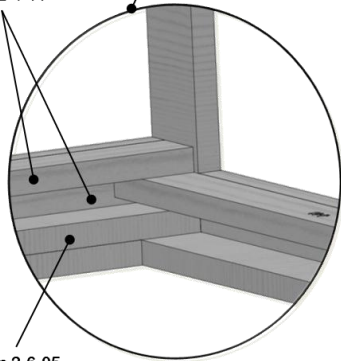


See Note-1

Detail-03  
4-Places

Detail-04  
2-Places

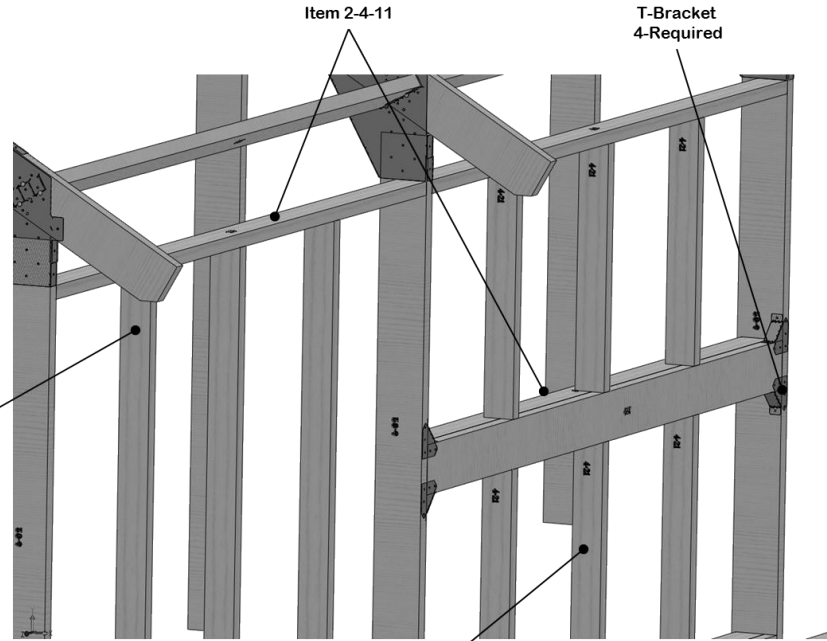
Item 2-4-11



Item 2-6-05

See Note-2

Item 2-4-12  
3-Required

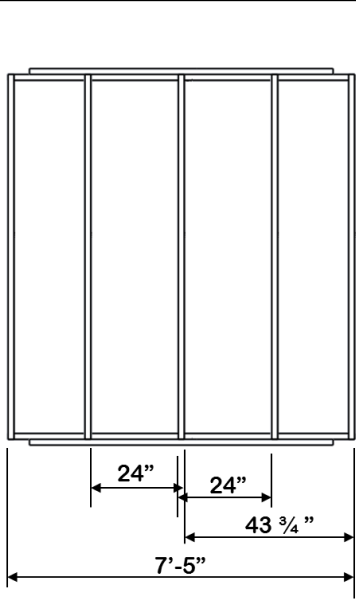


Item 2-4-21  
6-Required

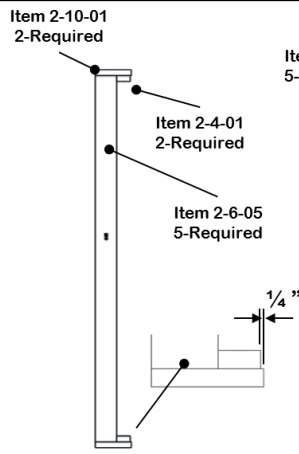
**Barn Wall Studs**  
**18 ft x 24 ft Shed-Barn**

**Bend-A-Shed**  
Email: [www.bendashed/contact.php](mailto:www.bendashed/contact.php)  
Web Site: [www.bendashed.com](http://www.bendashed.com)

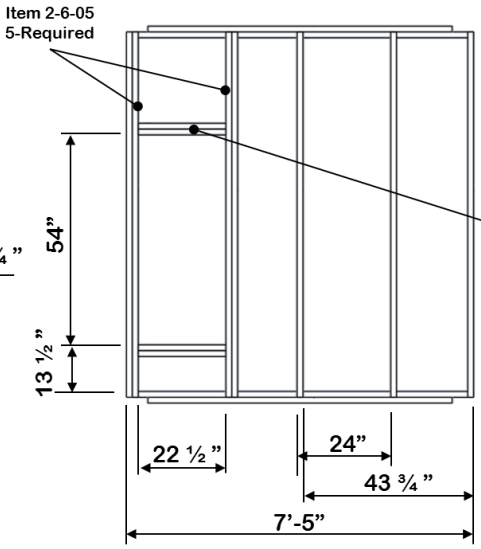
Sheet  
12 of 29



**Detail-05**  
Attic Floor Joist  
2-Required



Typical  
For Detail-05 & 06

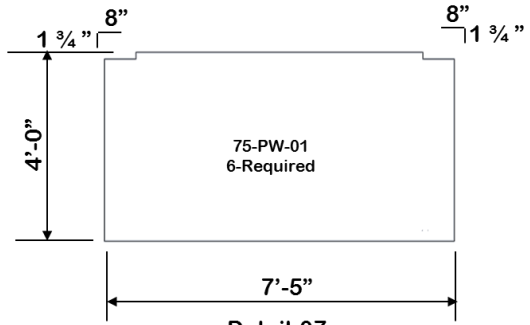


**Detail-06**  
Attic Floor Joist  
1-Required

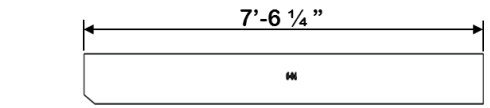
**Note:**  
The plywood flooring will not have the cutout for the stairs. You may want to relocate the stairs. Just remember to double up on the boards around the opening.

Item 2-6-15  
4-Required

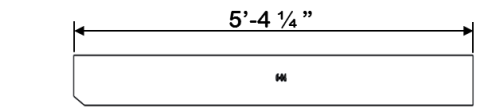
For attic stair installation video go to the link below  
<http://www.thisoldhouse.com/toh/video/0,,20047183,00.html>



**Detail-07**  
Plywood Floor  
6-Required



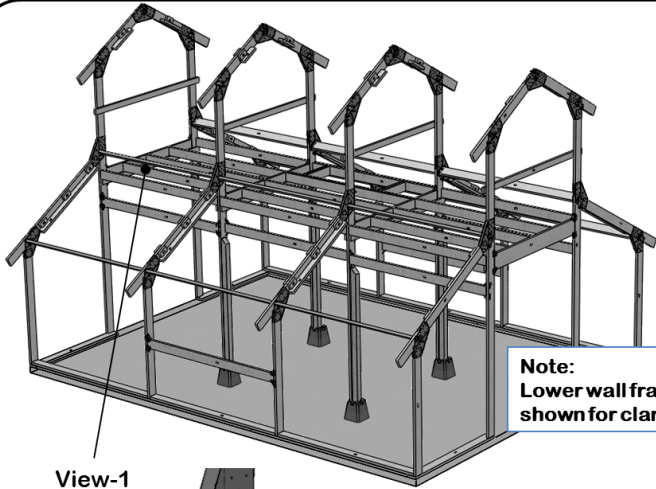
**Detail-02**  
Item 2-6-03  
Typical 8 Places



**Detail-01**  
Item 2-6-04  
Typical 8 Places

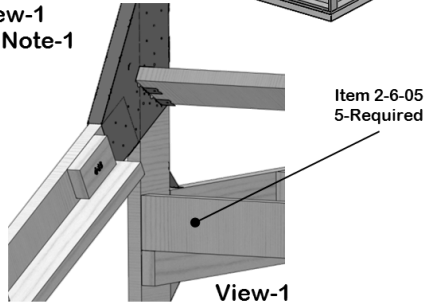
**Materials Required this sheet:**

17	Item 2-6-05	2x6x 7'-10"
4	Item 2-6-15	2x4x 22 1/2"
6	Item 75-PW-01	3/4 x 4' x 8'
8	Item 2-6-3	7'-6 1/4"
8	Item 2-6-4	5'-4 1/4"



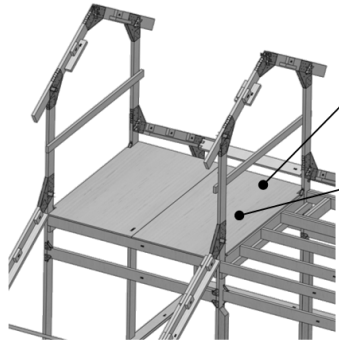
**Note:**  
Lower wall framing not shown for clarity

View-1  
See Note-1



Item 2-6-05  
5-Required

View-1



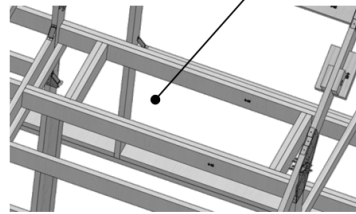
75-PW-01  
6-Required

See Detail-07

**Note:**

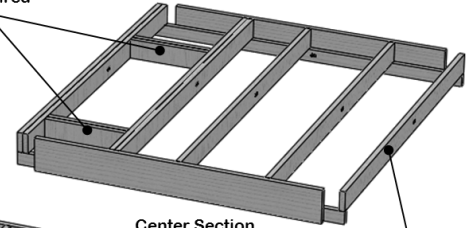
1. Make Item 2-6-05 flush with end of 2x10 and resting on 2x4 ledge. Typical both sides and all 3 bays
2. Opening is framed for a standard Attic Stairs. 2x6's are doubled at the opening. Extra 2x6's are placed on the inside and outside of the joists detailed in the front and rear bay
3. Now that the structure of the floor is in place the plywood floor can be laid on the joists as a platform to check the squariness of the upper frames.
4. When you have confirmed the frames are square nail down the plywood. The center bay will have to have the cut out for the attic stairs

See Detail-06



View-2

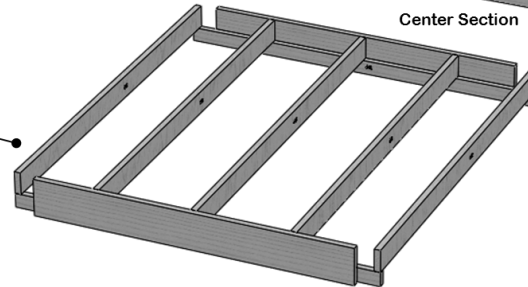
Item 2-6-15  
4-Required



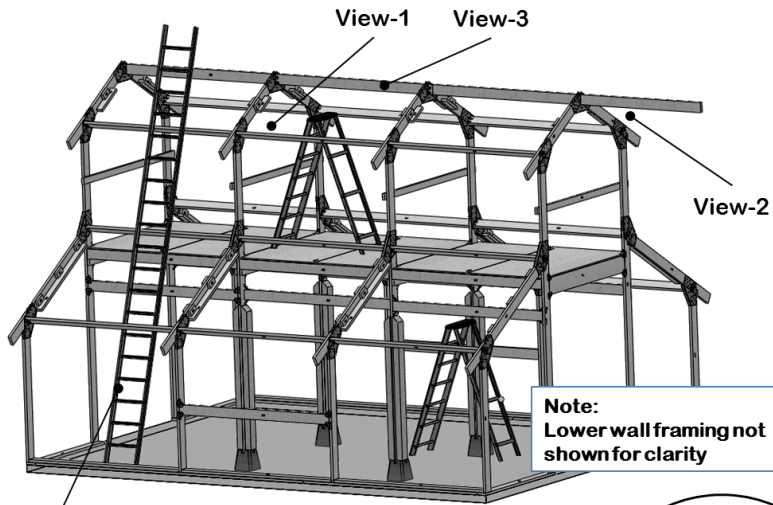
Center Section

Item 2-6-05  
7-Required

See Detail-05



Typical Each End



**Note:**

1. Ladder shown is 20 ft long and the step ladders are 6 ft tall. You should be able to manage everything with 1 ladder and 2 step ladders
2. Install ridge beam by passing the 2x6 through the two center Angle-Brackets and then butting-up against the inside face of the end Angle-Bracket. When Item 2-6-09 is in place install ridge Item 2-6-01
3. The ridge beam is designed to pass through the Angle-Bracket with room to tilt where required
4. View-3 shows the typical ridge beam splice. Cut Item-2-6-09 enough to create this splice on the opposite side of the Angle-Bracket from the over hanging beam Item 2-6-01
5. Next install the 6 Item 2-6-05's
6. Screw Item 2-6-5 in place as shown
7. Ridge beam is shown extending past the end of the Shed-Barn for a hoist if desired. Additional details will be shown later on sheet 17

Note:  
Lower wall framing not shown for clarity

If it helps the ridge beam flanges can be bent open and closed after the ridge beam is in place

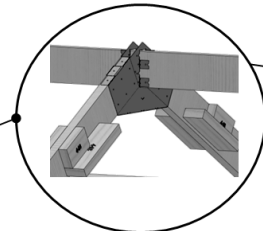
See Note-1

See Note-2  
Item 2-6-09

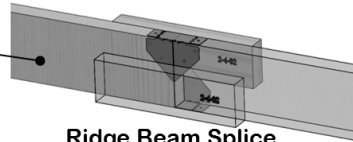
See Note-6  
Item 2-6-05

Brace  
See Note-8

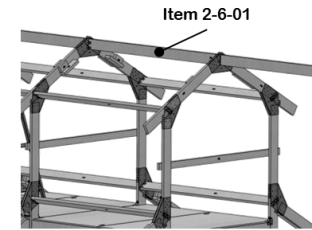
View-1



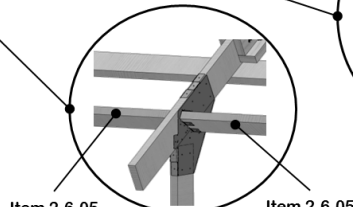
See Note-3



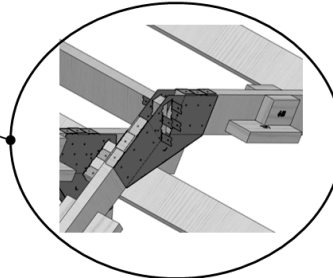
Ridge Beam Splice  
View-3  
See Note-4



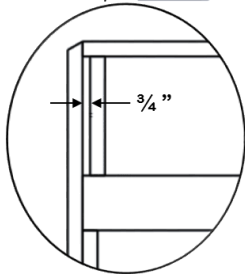
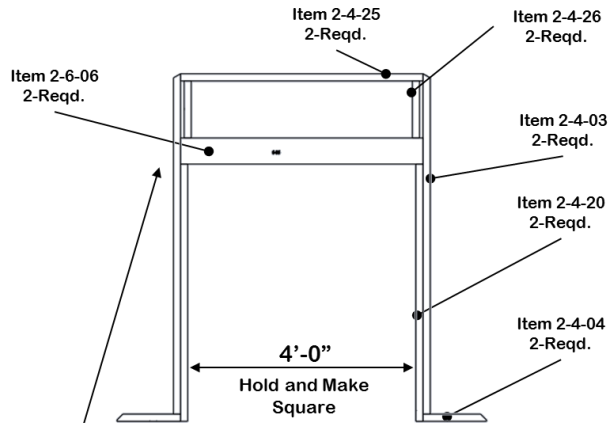
View-2  
See Note-7



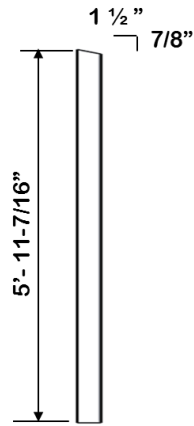
Item 2-6-05  
See Note-6  
Item 2-6-05



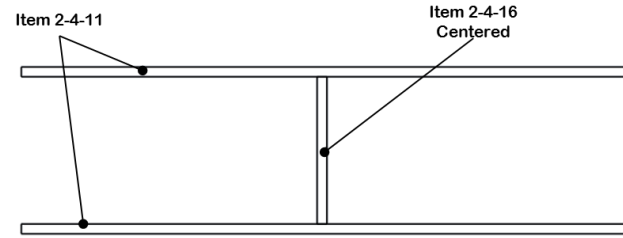
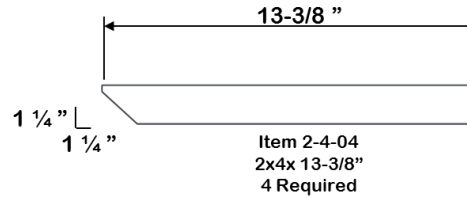
See Note-4



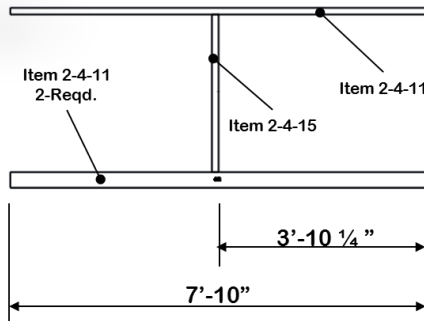
**Detail-08**  
Typical both ends



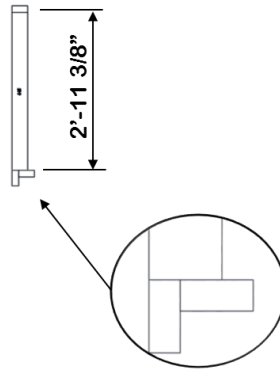
Item 2-4-03  
2x4x 5' - 11-7/16"  
4 Required



**Detail-11**  
Typical 6 Places



**Detail-09**  
Typical 6 Places



**Materials Required this sheet:**

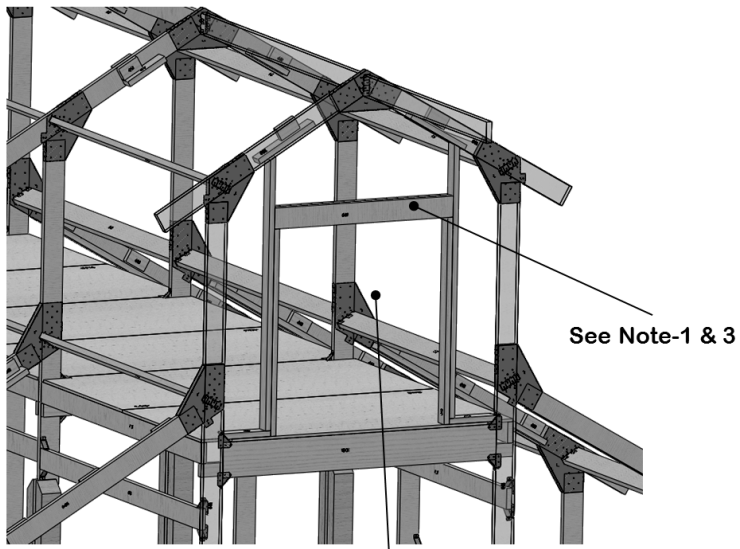
4	Item 2-6-06	2x6x 4'-3"
4	Item 2-4-20	2x4x 4'-6"
4	Item 2-4-03	2x4x 6'-0"
4	Item 2-4-04	2x4x 1'-2"
30	Item 2-4-11	2x4x 7'-10"
6	Item 2-4-15	2x4x 2'-11 3/8"
6	Item 2-4-16	2x4x 1'-10 1/2"
2	Item 2-4-25	2x4x 4'-3"
4	Item 2-4-26	2x4x 1'-0"

**Upper Roof Details**  
**18 ft x 24 ft Shed-Barn**

**Bend-A-Shed**

Email: [www.bendashed/contact.php](mailto:www.bendashed/contact.php)  
Web Site: [www.bendashed.com](http://www.bendashed.com)

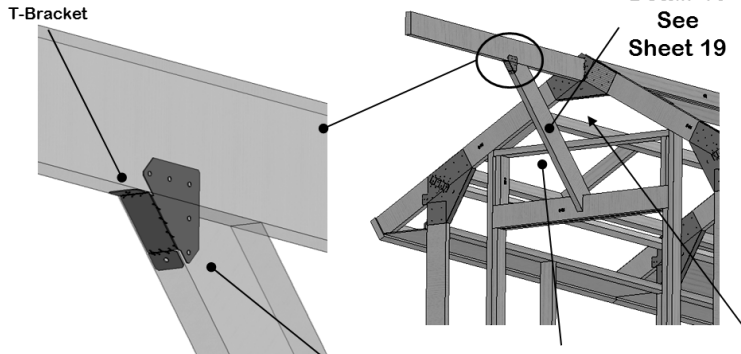




View-1

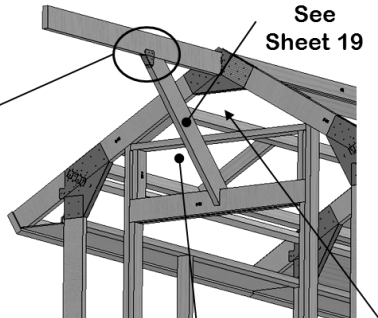
Detail-08 See Note-2  
2-Places-  
Front and Back

Item 2-6-14  
Detail-10  
See  
Sheet 19

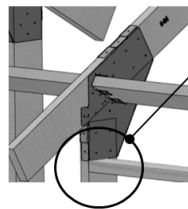


View-4

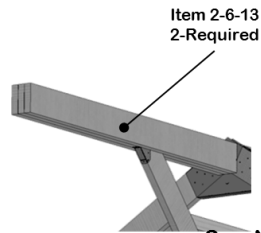
See Note-7



See Note-6



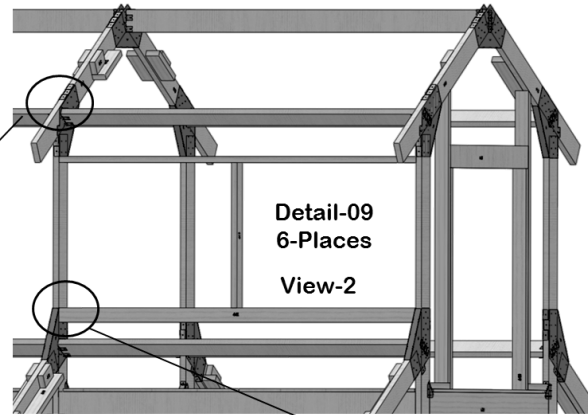
View-2



See Note-8

**Note:**

1. Double 2x6 header Item 2-6-06 nailed flush with the front and back of Item 2-4-03
2. The end frames can be built as assemblies and then put in place
3. There will be a space between the two 2x6 headers number 6. This can be filled with plywood or left as an empty space
4. Locate Item 2-4-11 even with the bottom of the Angle-Bracket on top and even with the top of the Angle-Bracket on the bottom as shown in View-2 and 3
5. Repeat the assembly in View-2, 6 times
6. Mount support member Item 2-6-14. It will self-align when notch and bevel cut are mated to joining surfaces.
7. Bend the T-Bracket as shown in View-4 and fasten first.
8. Secure 2 Item 2-6-13 on each side with bolts or lag screws

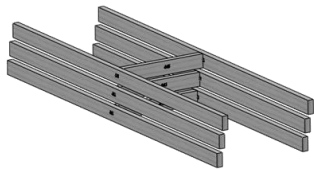
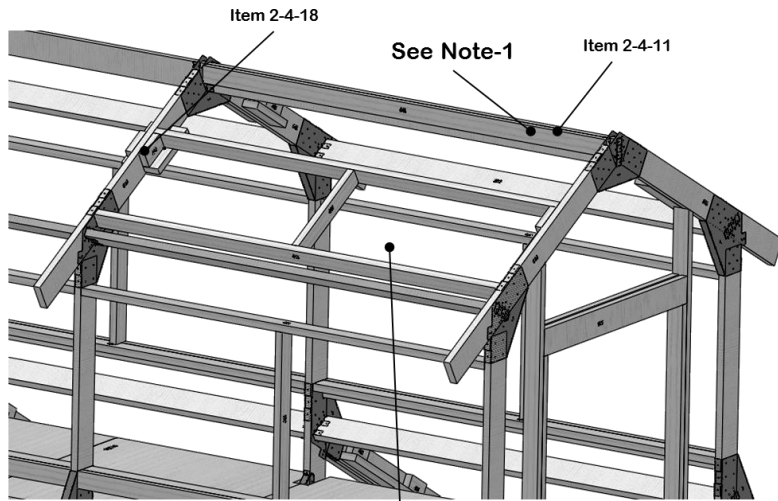


Detail-09  
6-Places  
View-2

See Note-4



View-3



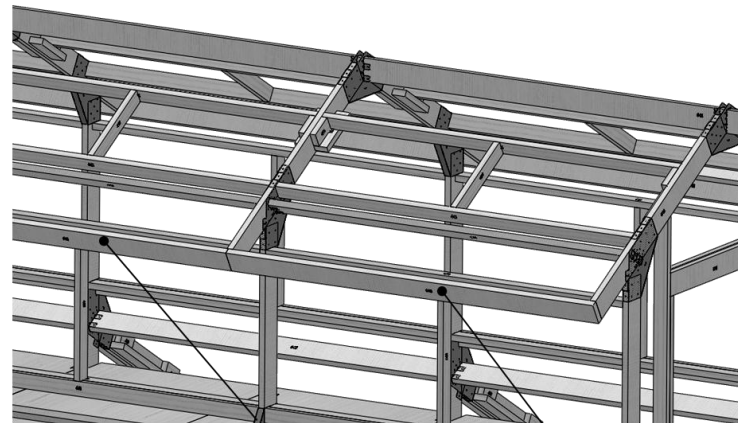
Roof rafters stacked  
ready to install

See Note-2

Detail-11

**Note:**

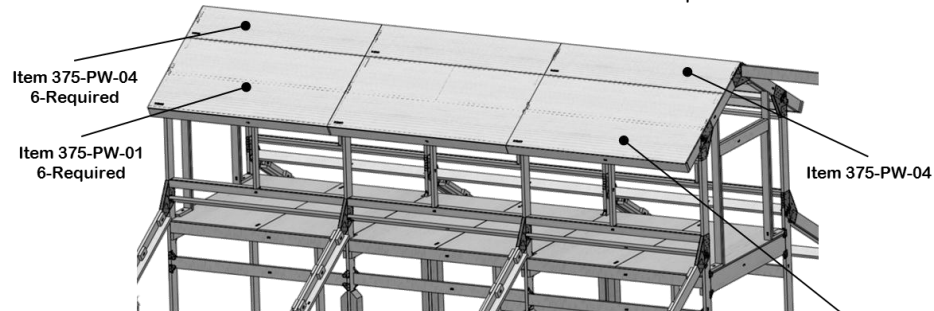
1. Item 2-4-11 is nailed flush with the top if the ridge beam near side and far side to have a nailer for the roof plywood
2. This assembly can be nailed together and lifted into place as a unit
3. Item 2-4-18 is intended as a stop and locator for the roof rafter that makes assembly easy and accurate
4. Install the fascia boards Item 2-6-11 and 2-6-12 as shown in View-2
5. Install roof sheeting at this point. There are fewer things in the way now. See View-3
6. Cover roof sheeting with tar paper and shingles if you want



Item 2-6-11  
2-Required

View-2

Item 2-6-12  
4-Required



Item 375-PW-04  
6-Required

Item 375-PW-01  
6-Required

Item 375-PW-04

Item 375-PW-01

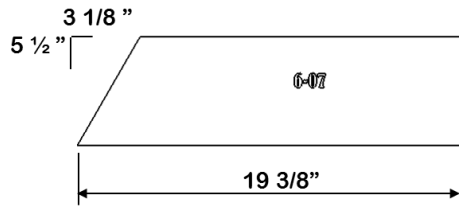
View-3

**Loft Framing**  
**18 ft x 24 ft Shed-Barn**

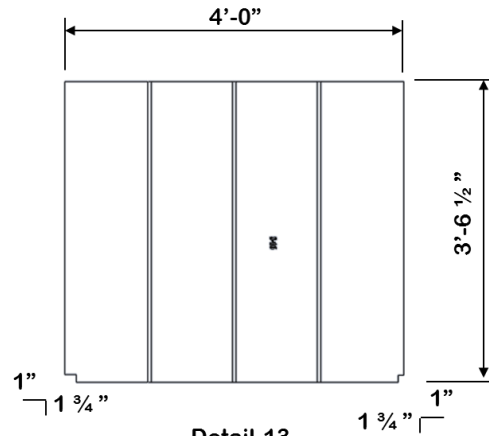
**Bend-A-Shed**

Email: [www.bendashed/contact.php](mailto:www.bendashed/contact.php)  
 Web Site: [www.bendashed.com](http://www.bendashed.com)

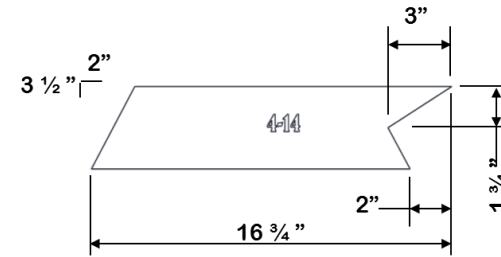
Sheet  
 18 of 29



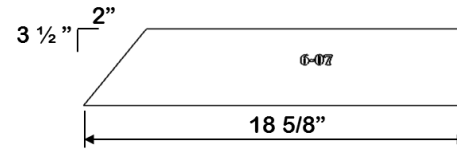
Detail-14  
Item 2-6-07  
6-Required



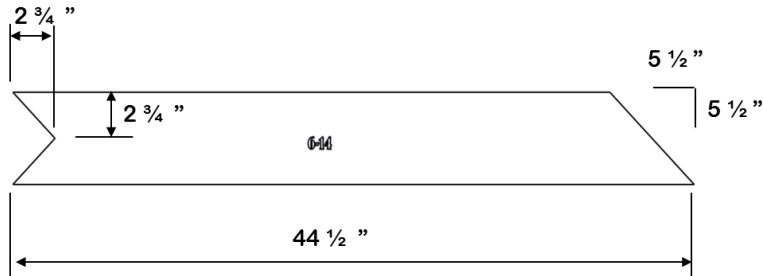
Detail-13  
Item S-16  
12 Required



Detail 12  
Item 2-4-14  
6 Required



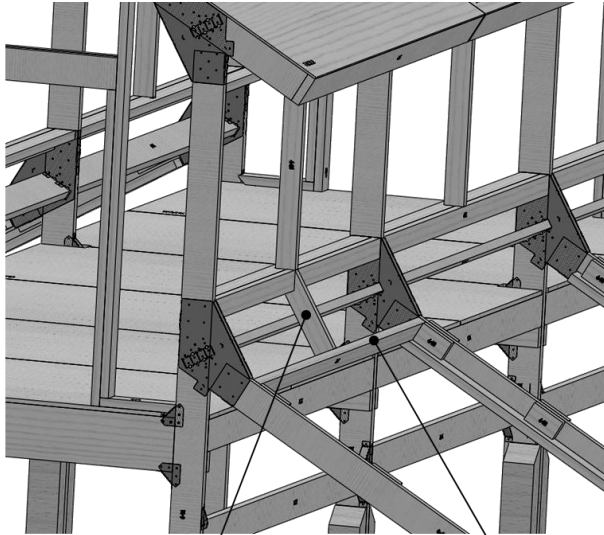
Detail-15  
Item 2-4-13  
6-Required



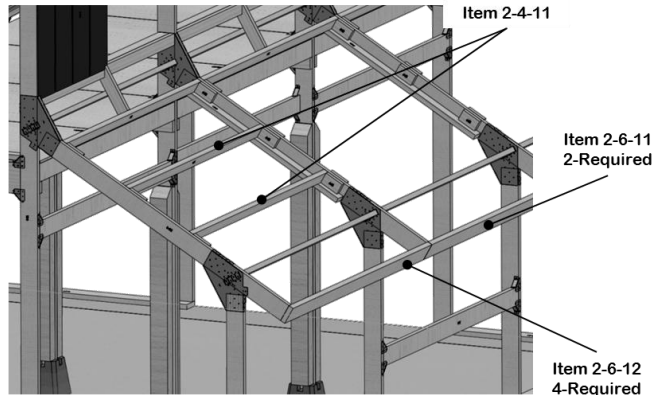
Detail 10  
Item 2-6-04  
2 Required

Materials Required this sheet:

6	Item 2-4-14	2x4x 16 3/4"
12	Item S-16	4 ft x 3'-6 1/2 "
6	Item 2-6-07	19 3/8"
6	Item 2-4-13	18 5/8"
2	Item 2-6-04	44 1/2"



Item 2-4-14  
View-1  
Detail-12  
See Note-1  
Item 2-4-11



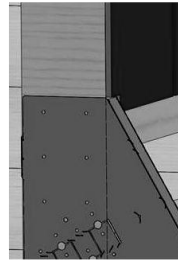
View-4  
See Note 4 & 5

**Note:**

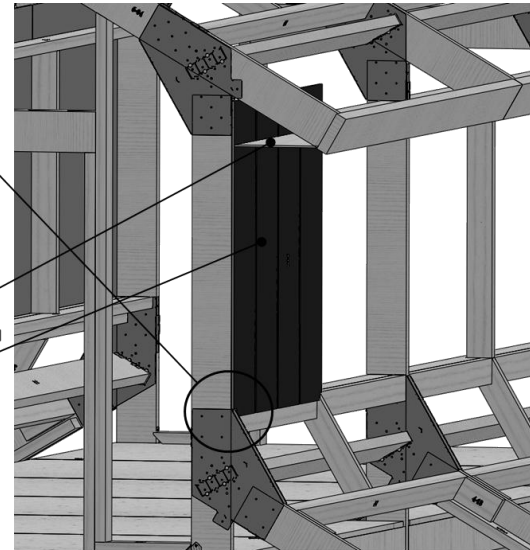
1. Lay Item 2-4-11 in its pocket and then center Item 2-4-14 as shown and nail in place. Repeat this 6 times
2. Install siding by setting the notches on Item S-16 onto Item 2-4-14 and the Angle-Bracket (12 Places)
3. SOFFIT-01 will be discussed later when the siding and trim is installed on the ends of the Shed-Barn
4. Finishing installing the roof rafters Item 2-4-11 total of 4 per bay
5. Install the remaining soffit boards

**OPTION:**

By installing everything you can to the upper part of the Shed-Barn gives you the greatest access to the area. When the lower framing is complete access will be restricted and harder to do. However if you want to work off of the lower roof instead of a ladder you can wait until all of the Shed-Barn is framed.

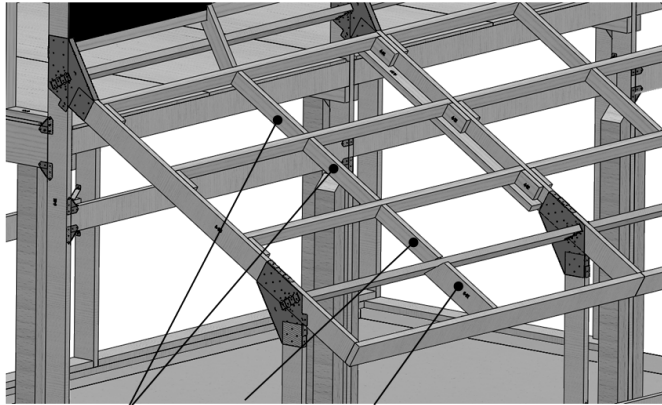


View-3



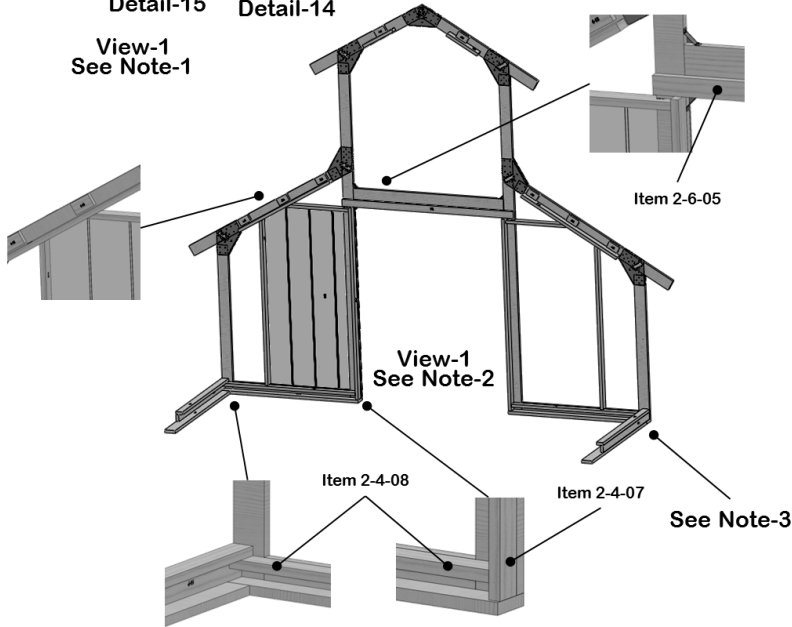
Item SOFFIT-01  
Item S-16  
Detail-13  
See Note-2

View-2



Item 2-4-17  
 Item 2-4-13  
 Detail-15  
 Item 2-6-07  
 Detail-14

View-1  
 See Note-1

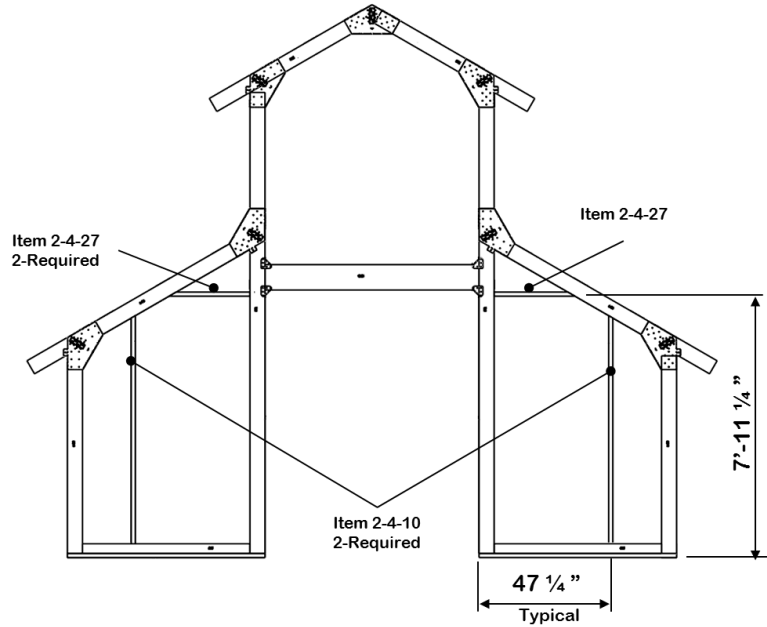


View-1  
 See Note-2

See Note-3

**Note:**

1. Install the bridge boards as shown in View-1. (2 Item 2-4-17, 1 Item 2-4-13 and 1 Item 2-6-07 per bay )
2. Frame both ends as shown
3. These Items are shown or omitted for clarity for clarity only



Item 2-4-27  
 2-Required

Item 2-4-27

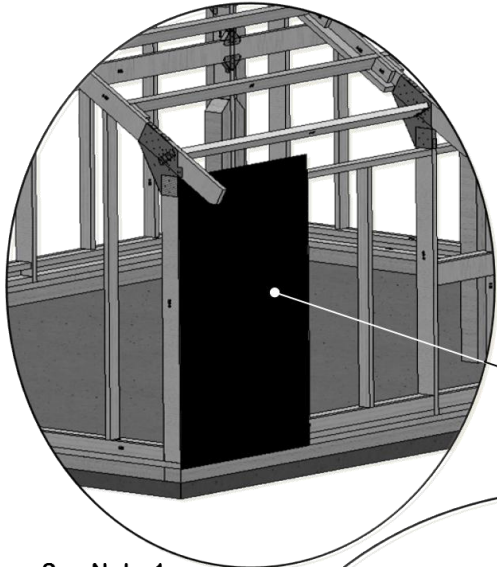
Item 2-4-10  
 2-Required

7'-11 1/4"

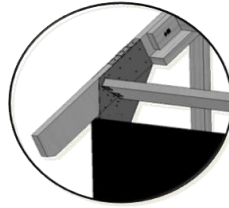
47 1/4"  
 Typical

**Front & Rear Framing**  
**18 ft x 24 ft Shed-Barn**

**Bend-A-Shed**  
 Email: [www.bendashed/contact.php](mailto:www.bendashed/contact.php)  
 Web Site: [www.bendashed.com](http://www.bendashed.com)



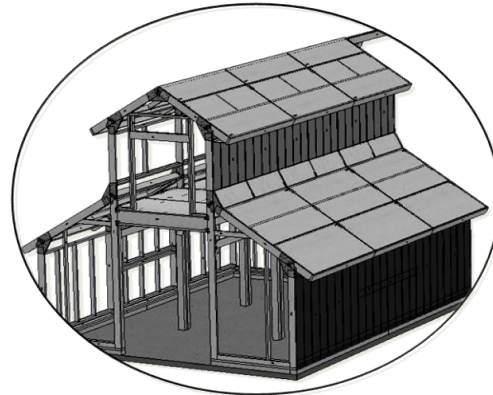
Item S-13  
6-Required  
Each Side



**Note:**

1. Install S-13 siding 12 places
2. Install roof sheeting as shown
3. Install wall siding as shown
4. Repeat opposite side

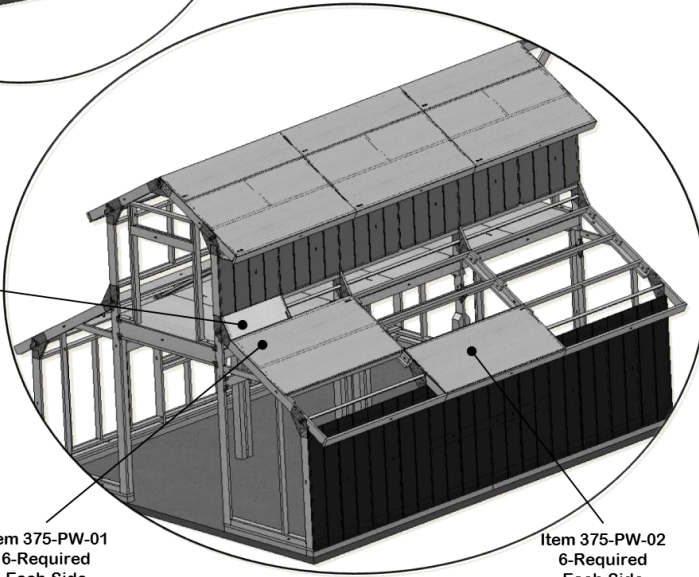
See Note-1



Item 375-PW-03  
6-Required  
Each Side



Item 375-PW-01  
6-Required  
Each Side

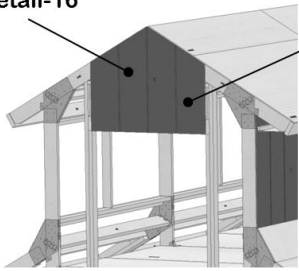


Item 375-PW-02  
6-Required  
Each Side

**Materials Required this sheet:**

12	Item S-13	4 ft x 6'-2"
6	Item 375-PW-01	4 ft x 8 ft
6	Item 375-PW-02	3'-2" x 8'-0"
12	Item 375-PW-03	1'-2" x 4'-0"

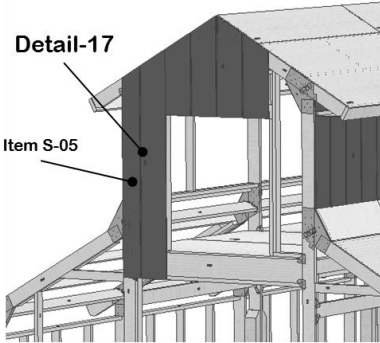
Detail-16



Item S-03

See Note-1

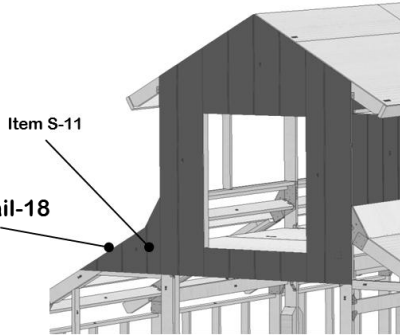
Detail-17



Item S-05

See Note-2

Detail-18

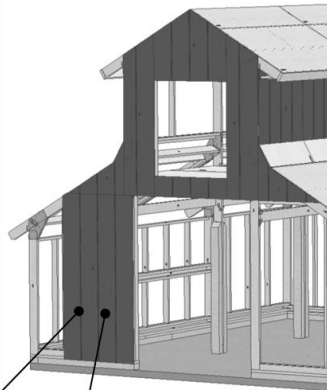


Item S-11

See Note-3

Item S-08

Detail-19

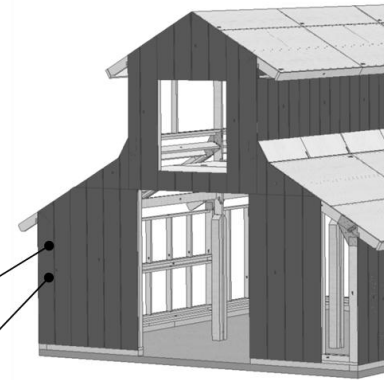


**Note:**

1. Install S-03 flush with the edges of the door opening
2. Install S-05 & S-06 flush with the edges of the door opening
3. Install S-08 flush with the edges of the door opening
4. Repeat on the opposite end

Item S-10

Detail-20

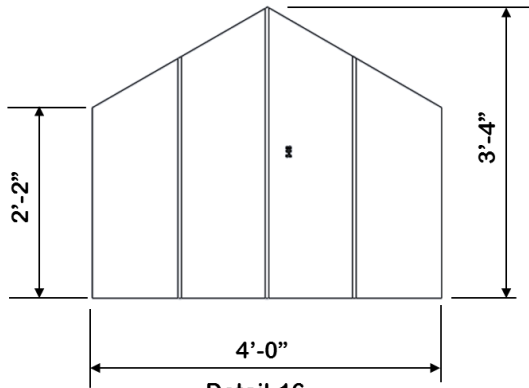


**Materials Required this sheet:**

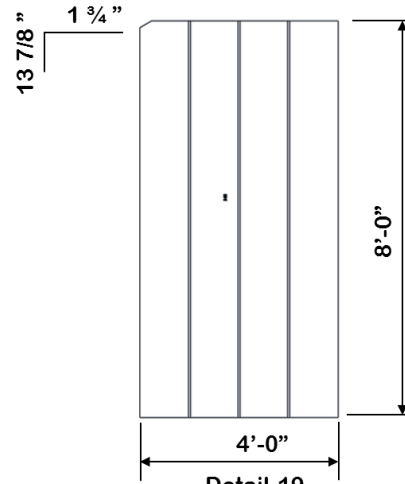
2

Item S-06

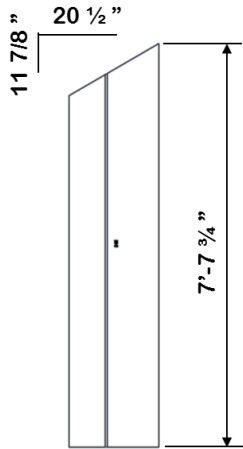
11 1/2" x 4'-0"



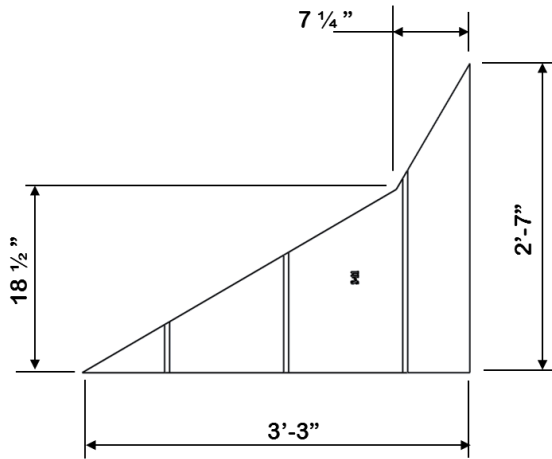
Detail-16  
S-03  
2 As Shown



Detail-19  
S-08  
2 As Shown 2 Opposite

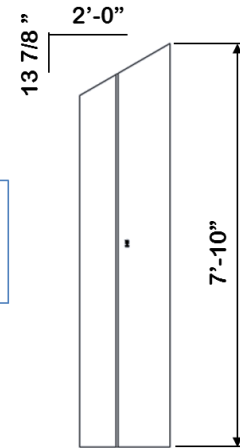


Detail-17  
S-05  
2 As Shown 2 Opposite



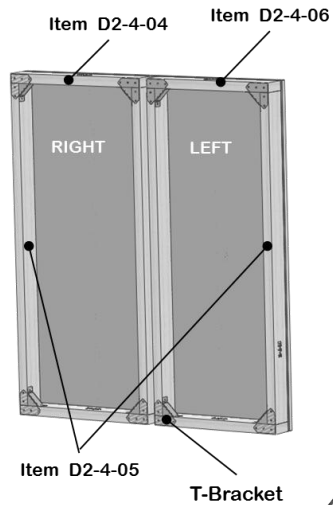
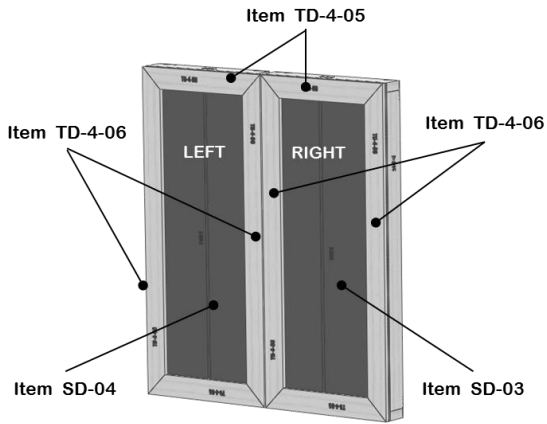
Detail-18  
S-11  
2 As Shown 2 Opposite

**NOTE**  
To make an opposite hand turn  
the as shown part upside down  
on the opposite hand part and  
mark as needed



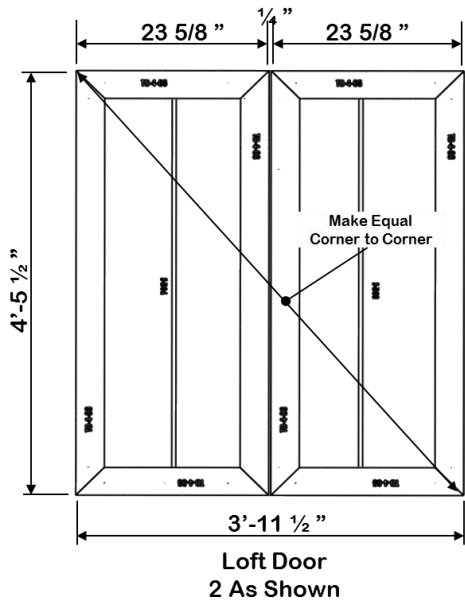
Detail-20  
S-10  
2 As Shown 2 Opposite



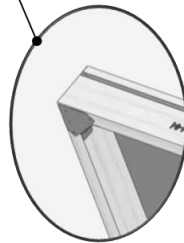


**Note:**

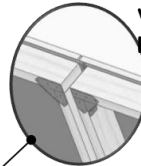
1. Build the doors together as shown to make sure that the over all measurements are accurate.
2. Remember to do your cross corner measurements to make sure your doors are square and accurate
3. All parts are aligned flush with each other on the outside, top and bottom edges
4. The sizes of the parts will create an overlap and seal on the center edges of the doors as shown in View-1



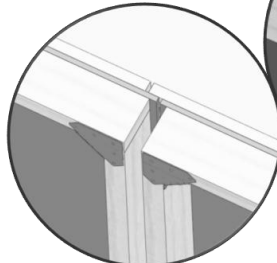
See Note-3



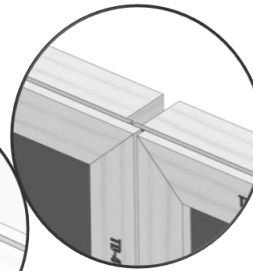
See Note-4



See Note-3



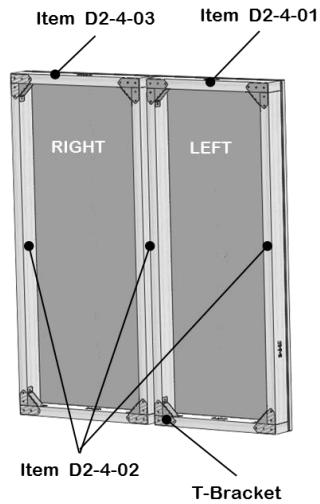
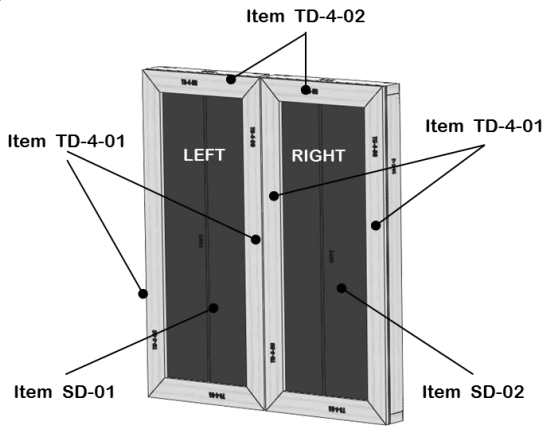
**View-1  
INSIDE**



**View-1  
OUTSIDE**

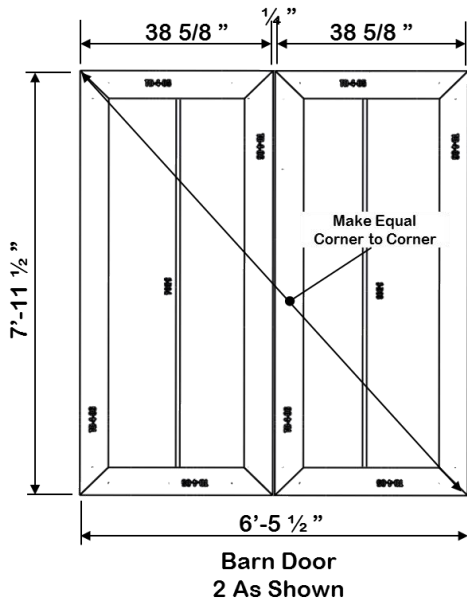
**Materials Required this sheet:**

2	Item SD-04	22 5/8 x 4'-5 1/2 "
2	Item SD-03	24 5/8 x 4'-5 1/2 "
8	Item TD-4-05	23 5/8 " (45° Bev)
8	Item TD-4-06	4"-5 1/2 (45° Bev)
8	Item D2-4-04	24 1/8 "
8	Item D2-4-05	4'-2 1/2 "
8	Item D2-4-06	22 1/8 "
16	T-Bracket	.

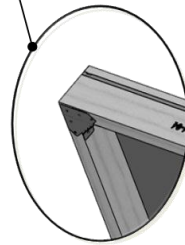


**Note:**

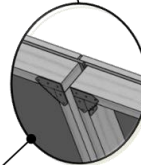
1. Build the doors together as shown to make sure that the over all measurements are accurate.
2. Remember to do your cross corner measurements to make sure your doors are square and accurate
3. All parts are aligned flush with each other on the outside, top and bottom edges
4. The sizes of the parts will create an overlap and seal on the center edges of the doors as shown in View-1



See Note-3

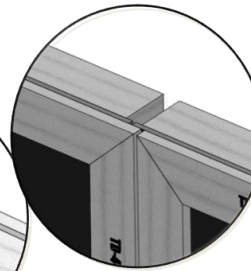


See Note-4



See Note-3

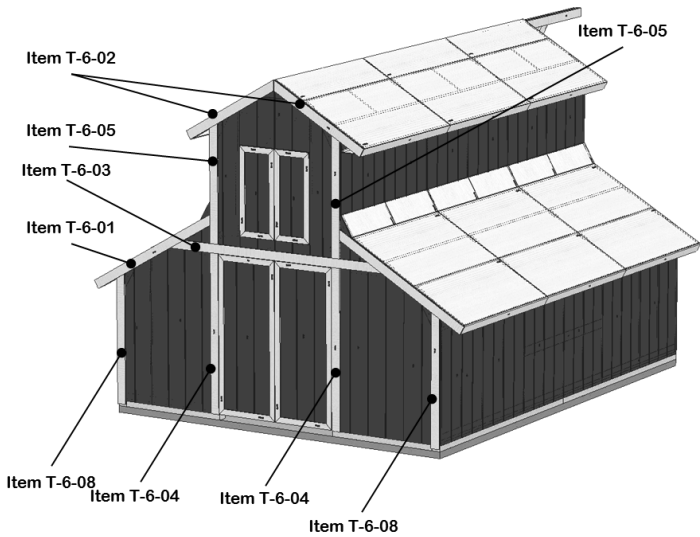
**View-1  
INSIDE**



**View-1  
OUTSIDE**

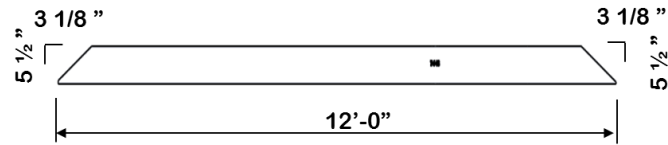
**Materials Required this sheet:**

2	Item SD-01	37 5/8 x 7'-11 1/2 "
2	Item SD-02	39 5/8 x 7'-11 1/2 "
8	Item TD-4-02	38 5/8 " (45° Bev)
8	Item TD-4-01	7'-11 1/2 (45° Bev)
8	Item D2-4-01	37 1/8 "
8	Item D2-4-02	7'-8 1/2 "
8	Item D2-4-03	37 3/8 "
16	T-Bracket	.

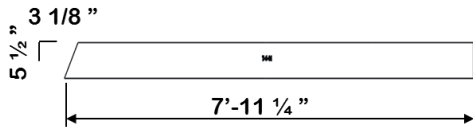


**Note:**

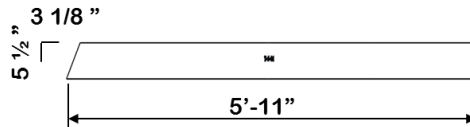
1. Trim is consistent on both ends.
2. All parts are cut the same and can be turned over to make the opposite hand part
3. Your dimensions may vary slightly so check each dimension before cutting
4. All angles are 30° from the long side of the board



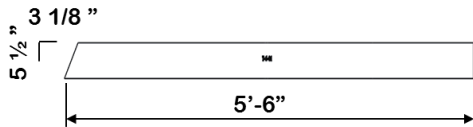
Item T-6-03



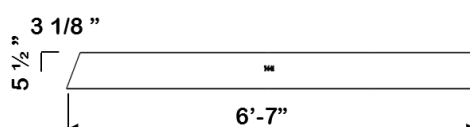
Item T-6-01



Item T-6-05



Item T-6-02



Item T-6-08

**Materials Required this sheet:**

4	Item T-6-01	7'-11 1/4"
4	Item T-6-02	5'-10"
2	Item T-6-03	12'-0"
4	Item T-6-04	8'-0"
4	Item T-6-05	5'-11"
4	Item T-6-08	6'-7"

# Appendices:

## Cross Corner Squaring

This is probably the most important part of building anything. If the structure you are building is not square or have 90° angles you will have problems throughout your project.

The 10x12 shed we are using for an example has a cross corner dimension of 15'- 7½". (See Fig-2)

When you take your measurements they will not be the same. Take note of the first measurement and then measure the second corner to corner. While holding the tape measure in place, bump the corner to move the frame to a dimension half way between the first measurement and the second measurement.

Example:

Your first measurement is 15'-10" and your second is 15'-5". The difference in the measurement is 5" so you will have to move one of the corners 2½" to split the difference. Now with a hammer bump the second corner in a direction that will make the measurement larger by 2½". Now recheck cross both corners until you have equal measurement of 15'-7½".

You will not always use a corner for your measuring point, examples will be shown later. As long as you pick two points that are the same on both sides and can move them to make equal you will be fine.

This process will be used throughout the building process.

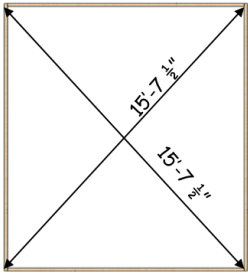


Fig-2

## Proper Nailing

The outside bands are nailed together using 3-16d nails as shown in fig-4. Space the nails equal distance apart. This is typical every time you have a joint like this where the edge of a 2x6 butts up against the face of another 2x6. For 2x4's use 2-16d nails.



Fig-4

There is another nail pattern here that we need to discuss. On the rear of the shed floor you have two adjacent joists meeting at the same location on a perpendicular joist see Fig-9. Where an "X" intersection, see Fig-10.1, happens you will have to toe the nail the second joist in place see Fig-10.2 and 10.3

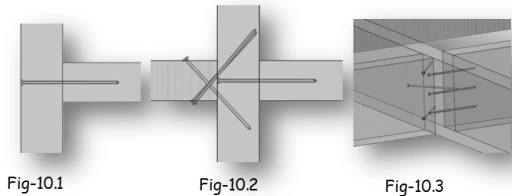


Fig-10.1

Fig-10.2

Fig-10.3

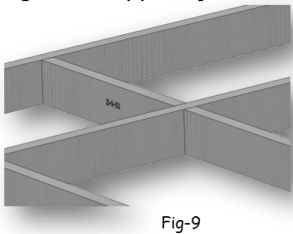


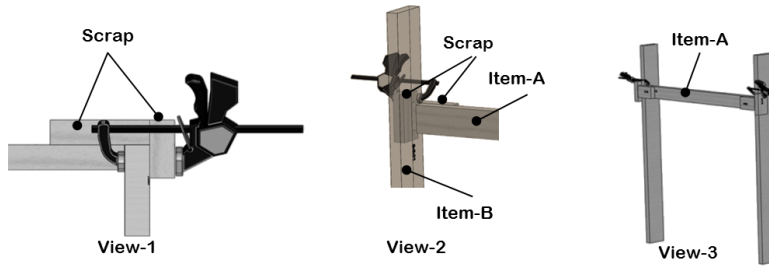
Fig-9

# Appendices:

## Support Fixture

---

Figure 4 shows two simple fixtures that will hold the A-Frames in place until they can be secured.



Item-A is equal to the distance from inside to inside of the A-Frame

Item-B is equal to the distance from inside to inside of the A-Frame

The scrap pieces are tacked in place as shown in View-1 with enough clearance for a snug fit