

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	10ft 6 x 6	6 x 6 Lumber x 120" Long	6
2	Front Stringer	2 x 10 Lumber x 216" Long	2
3	Side Stringer	2 x 10 Lumber x 165" Long	2
4	Base Front Inside Stringer	2 x 10 Lumber x 98-1/4" Long	4
5	Base Inside Stringer	2 x 10 Lumber x 154" Long	2
6	Brace 001	2 x 6 Lumber x 48" Long	12
7	Center Rafter	2 x 8 Lumber x 75-1/16" Long	16
8	Lower Roof Top Board 01	2 x 8 Lumber x 96" Long	2
9	Lower Roof Top Board 02	2 x 8 Lumber x 45" Long	2
10	Rafter 001	2 x 8 x 102-1/16" Long	4
11	Rafter 002	2 x 8 Lumber x 50-13/16" Long	4
12	Rafter 003	2 x 8 Lumber x 50-13/16" Long	4
13	Rafter 004	2 x 8 Lumber x 26-1/16" Long	4
14	Rafter 005	2 x 8 Lumber x 26-1/16" Long	4
15	Top Roof Support Base	2 x 4 Lumber x 48" Long	4
16	Top Roof Long Support Base	2 x 4 Lumber x 96" Long	4
17	Top Roof Support Stud	2 x 4 Lumber x 9" Long	20
18	Top Roof Stringer	2 x 6 Lumber x 48" Long	2
19	Top Rafter 001	2 x 6 Lumber x 37-7/16" Long	2
20	Top Rafter 002	2 x 6 Lumber x 49-1/16" Long	4
21	Top Rafter 003	2 x 6 Lumber x 36-3/16" Long	6
22	Top Rafter 004	2 x 6 Lumber x 21-1/16" Long	4
23	Top Rafter 005	2 x 6 Lumber x 21-1/16" Long	4
24	Lower Eave Trim	2 x 8 Lumber x 240" Long	2
25	Lower Eave Trim - Short	2 x 8 Lumber x 189" Long	2
26	Top Eave Trim	2 x 6 Lumber x 120" Long	2
27	Top Eave Trim - Short	2 x 6 Lumber x 69" Long	2
28	RHSNBOLT 0.5-13x8x8-N	1/2 x 8" Carriage Bolt	20
29	Regular FW 0.5	1/2" Flat Washer	20
30	HNUT 0.5-13-D-N	1/2" Hex Nut	20

Raw Materials Needed

6 x 6 x 10ft Long	- 6 pcs
2 x 10 x 18ft Long	- 2 pcs
2 x 10 x 14ft Long	- 4 pcs
2 x 10 x 10ft Long	- 2 pcs
2 x 8 x 20ft Long	- 2 pcs
2 x 8 x 16ft Long	- 2 pcs
2 x 8 x 10ft Long	- 10 pcs
2 x 8 x 8ft Long	- 19 pcs
2 x 6 x 10ft Long	- 6 pcs
2 x 6 x 8ft Long	- 12 pcs
2 x 4 x 8ft Long	- 8 pcs
1 x 8 x 10ft Long	- 70 pcs
#9 x 2-1/2" Exterior Screws	- 20 lbs
#9 x 1-3/4" Exterior Screws	- 20 lbs
1/2" x 8" Carriage Bolts	- 20 pcs
1/2" Flat Washers	- 20 pcs
1/2" Flange Nuts	- 20 pcs
Alum. Drip Edge	- 110 ft
Roofing Underlayment	- 1 Roll
Shingles	- 400 Sq. Ft.
Ridge Cap	- 60 ft
Roofing Nails	- 20 lbs

Tools Required

Saw
Drill
Stapler
Hammer

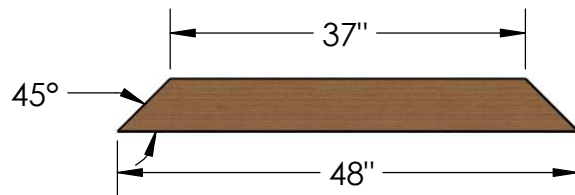


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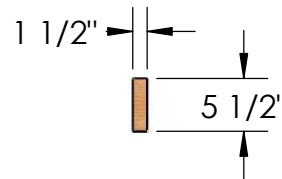
In spite of these plans, specifications, and or advice and construction guides provided by Sandmann Specialties it becomes by building, the owners sole responsibility to apply for all required permits, to build so that it is in accordance with all required skill, standards and in a safe and skillful manner that suits the intended purpose in that area.

- Items #1, 2, 8, 24, & 26 do not need to be cut
- Cut 2 pcs 165" Long out of two of the 14ft 2 x 10's (Item #3)
- Cut 4 pcs 98-1/4" Long out of four of the 10ft 2 x 10's (Item #4)
- Cut 2 pcs 154" Long out of two of the 14ft 2 x 10's (Item #5)
- See pages 2-5 for instructions for cutting Items #6,7,10-16, & 19-23
- Cut 2 pcs 45" Long out of one of the 8ft 2 x 8's (Item #9)
- Cut 20 pcs 9" Long out of two of the 8ft 2 x 4's (Item #17)
- Cut 2 pcs 48" Long out of one of the 8ft 2 x 6's (Item #18)
- Cut 2 pcs 189" Long out of two of the 16ft 2 x 8's (Item #25)
- Cut 2 pcs 69" Long out of two of the 8ft 2 x 6's (Item #27)

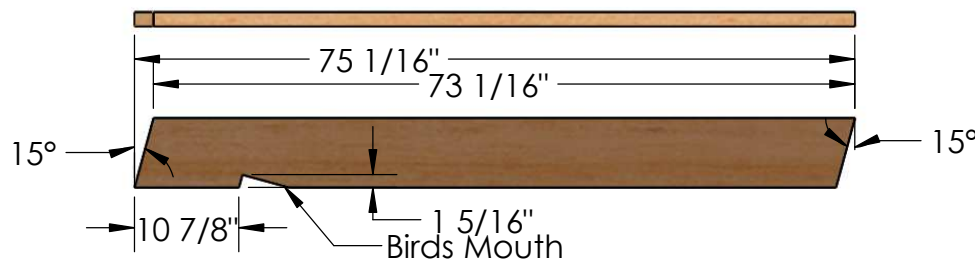
Item No. 6 Material: 2 x 6 Lumber x 48" Long
Qty.: 12



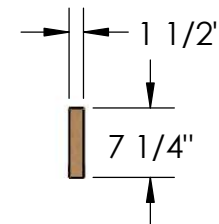
Using the six 8ft 2 x 6's cut twelve pcs 48" long with a 45° angle on each end as shown below.



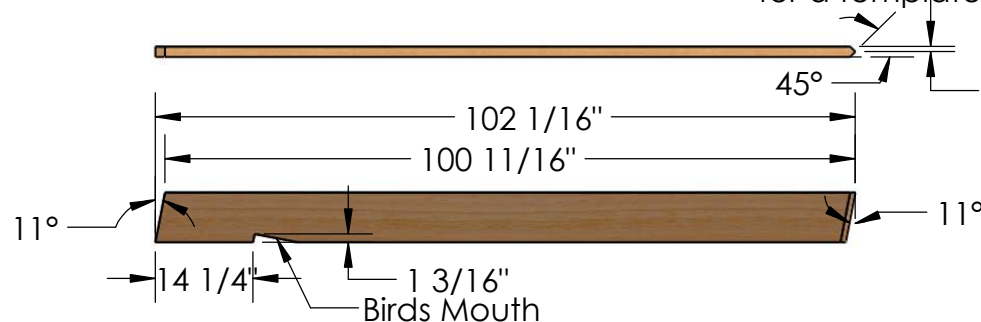
Item No. 7 Material: 2 x 8 Lumber x 75-1/16" Long
Qty.: 16



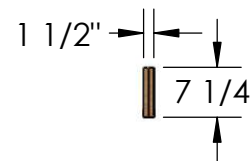
Using sixteen of the 8ft 2 x 8's, cut sixteen pcs 75-1/16" long with a 15° angle on each end as shown. Then cut a bird's mouth as shown below in each one. See Attachment 001 at the end of these plans for a template for cutting the bird's mouth.



Item No. 10 Material: 2 x 8 Lumber x 102-1/16" Long
Qty.: 4

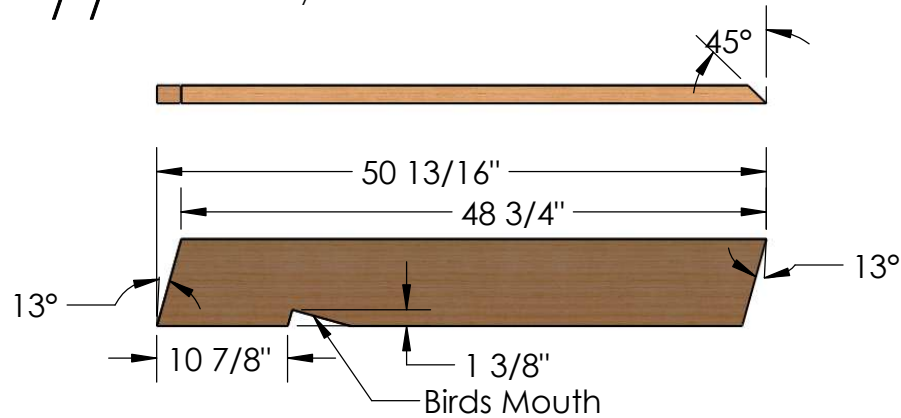


Using four of the 10ft 2 x 8's, cut four pcs 102-1/16" long with an 11° angle on each end as shown, and a 45° compound miter on each side of the top end as shown. Then cut a bird's mouth as shown below in each one. See Attachment 002 at the end of these plans for a template for cutting the bird's mouth.

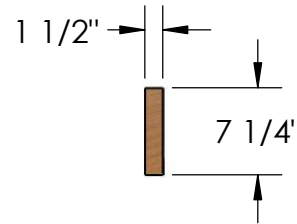


Step 1 cont. - Cut Boards to Length

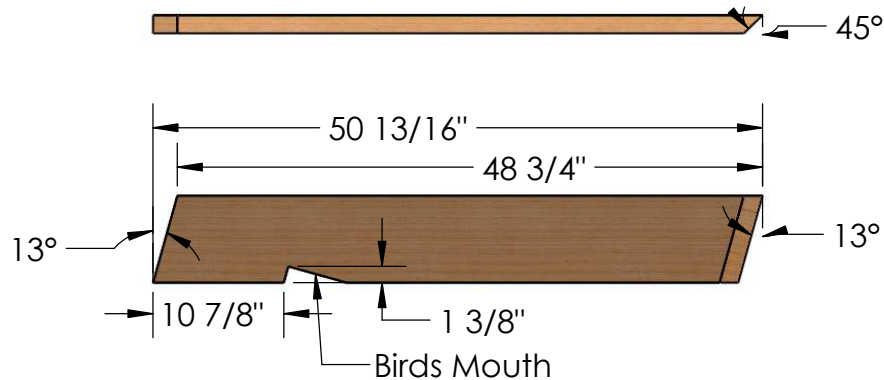
Item No. 11 Material: 2 x 8 x 50-13/16" Long
Qty.: 4



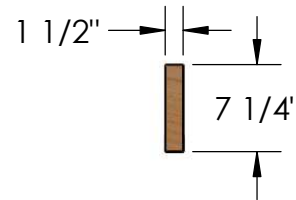
Using two of the 10ft 2 x 6's cut four pcs 50-13/16" long with a 13° angle on each end as shown below, the top end must have a 45° compound angle as shown. Then cut a bird's mouth as shown in the bottom side of each rafter. See Attachment 001 at the end of these instructions for templates for the birds mouth.



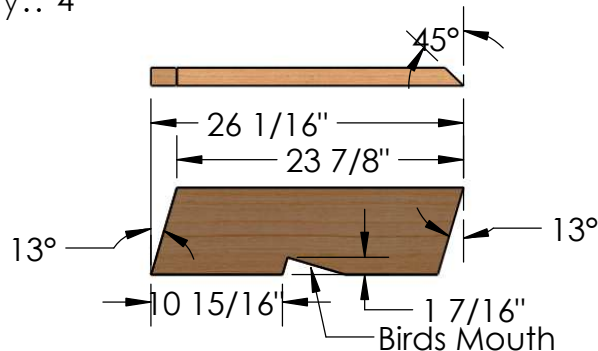
Item No. 12 Material: 2 x 8 x 50-13/16" Long
Qty.: 4



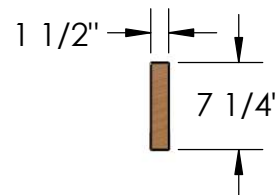
Using two of the 10ft 2 x 6's cut four pcs 50-13/16" long with a 13° angle on each end as shown below, the top end must have a 45° compound angle as shown. Then cut a bird's mouth as shown in the bottom side of each rafter. See Attachment 001 at the end of these instructions for templates for the birds mouth.



Item No. 13 Material: 2 x 8 x 26-1/16" Long
Qty.: 4

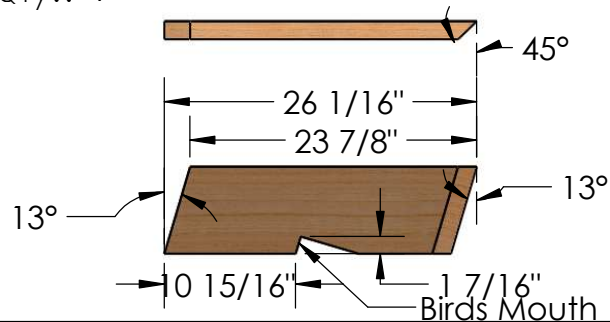


Using one of the 10ft 2 x 6's cut four pcs 26-1/16" long with a 13° angle on each end as shown below, the top end must have a 45° compound angle as shown. Then cut a bird's mouth as shown in the bottom side of each rafter. See Attachment 001 at the end of these instructions for templates for the birds mouth.

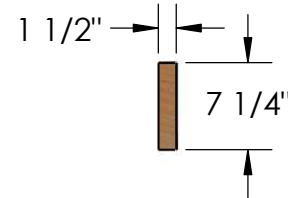


Step 1 cont. - Cut Boards to Length

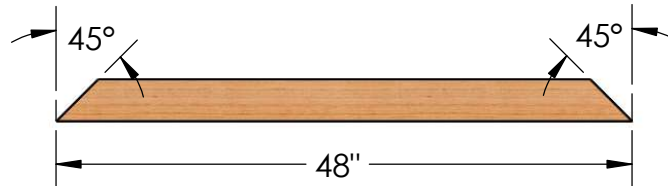
Item No. 14 Material: 2 x 8 x 26-1/16" Long
Qty.: 4



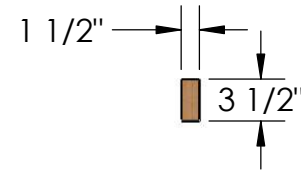
Using one of the 10ft 2 x 6's cut four pcs 26-1/16" long with a 13° angle on each end as shown below, the top end must have a 45° compound angle as shown. Then cut a bird's mouth as shown in the bottom side of each rafter. See Attachment 001 at the end of these instructions for templates for the birds mouth.



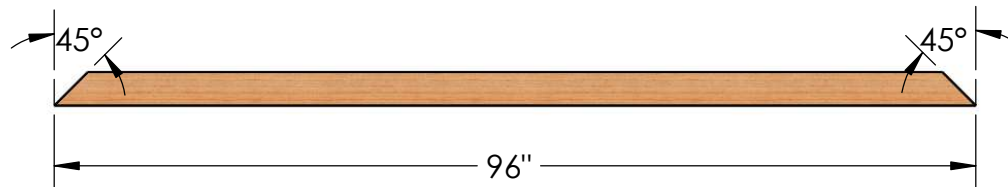
Item No. 15 Material: 2 x 4 x 48" Long
Qty.: 4



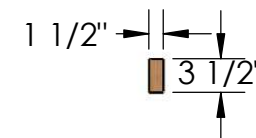
Using two of the 8' 2 x 4's, cut four pcs 48" long with a 45° angle on each end as shown below.



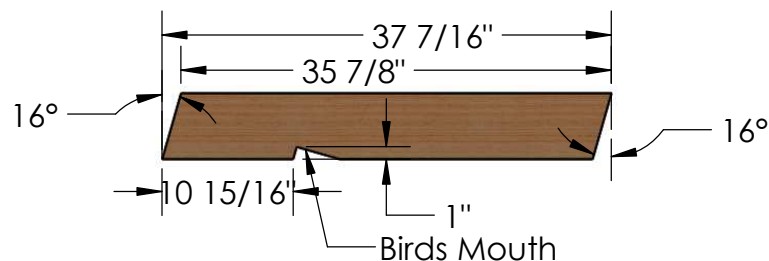
Item No. 16 Material: 2 x 4 x 96" Long
Qty.: 4



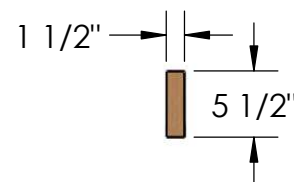
Using four of the 8' 2 x 4's, cut eight pcs 96" long with a 45° angle on each end as shown below.



Item No. 19 Material: 2 x 6 x 37-7/16" Long
Qty.: 2

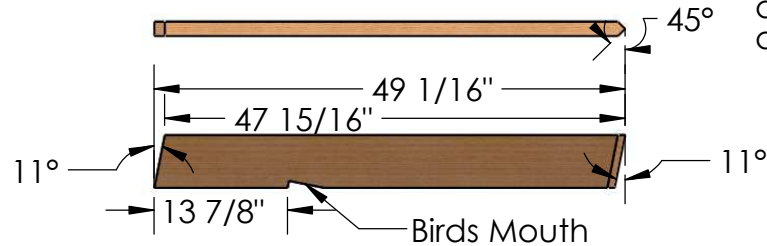


Using one of the 8ft 2 x 6's cut two pcs 37-7/16" long with a 16° angle on each end as shown below. Then cut a bird's mouth as shown in the bottom side of each rafter. See Attachment 003 at the end of these instructions for templates for the birds mouth.

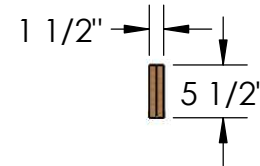


Step 1 cont. - Cut Boards to Length

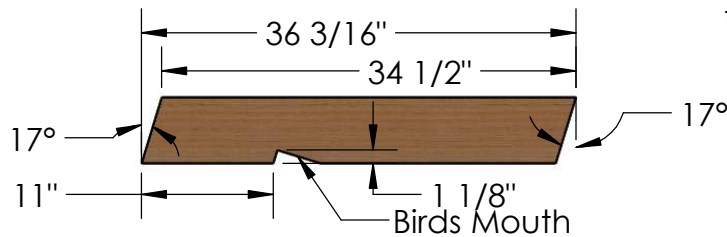
Item No. 20 Material: 2 x 6 x 49-1/16" Long
Qty.: 4



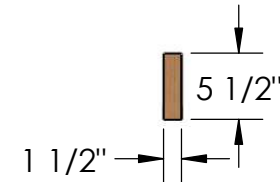
Using two of the 10ft 2 x 6's cut four pcs 49-1/16" long with an 11° angle on each end, and a 45° compound miter on each side of the top end as shown. Then cut a bird's mouth as shown in the bottom side of each rafter. See Attachment 003 at the end of these instructions for templates for the bird's mouth.



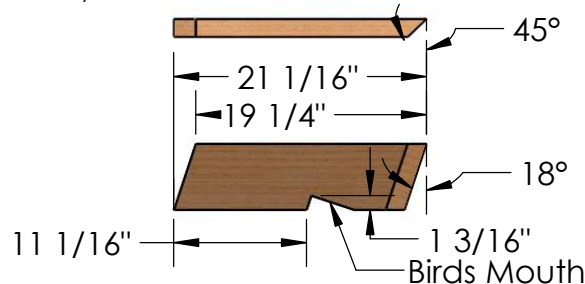
Item No. 21 Material: 2 x 6 x 36-3/16" Long
Qty.: 6



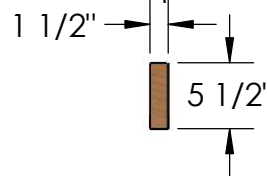
Using two of the 10ft 2 x 6's, cut six pcs 36-3/16" long with a 17° angle on each end as shown. Then cut a bird's mouth as shown below in each one. See Attachment 004 at the end of these plans for a template for cutting the bird's mouth.



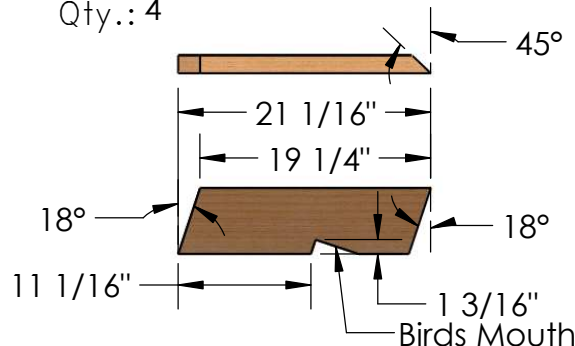
Item No. 22 Material: 2 x 6 x 21-1/16" Long
Qty.: 4



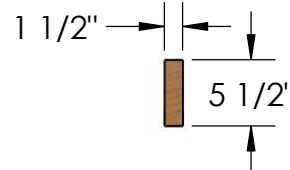
Using one of the 8ft 2 x 6's, cut four pcs 21-1/16" long with an 18° angle on each end as shown, and a 45° compound miter on one side of the top end as shown. Then cut a bird's mouth as shown below in each one. See Attachment 004 at the end of these plans for a template for cutting the bird's mouth.



Item No. 23 Material: 2 x 6 x 21-1/16" Long
Qty.: 4

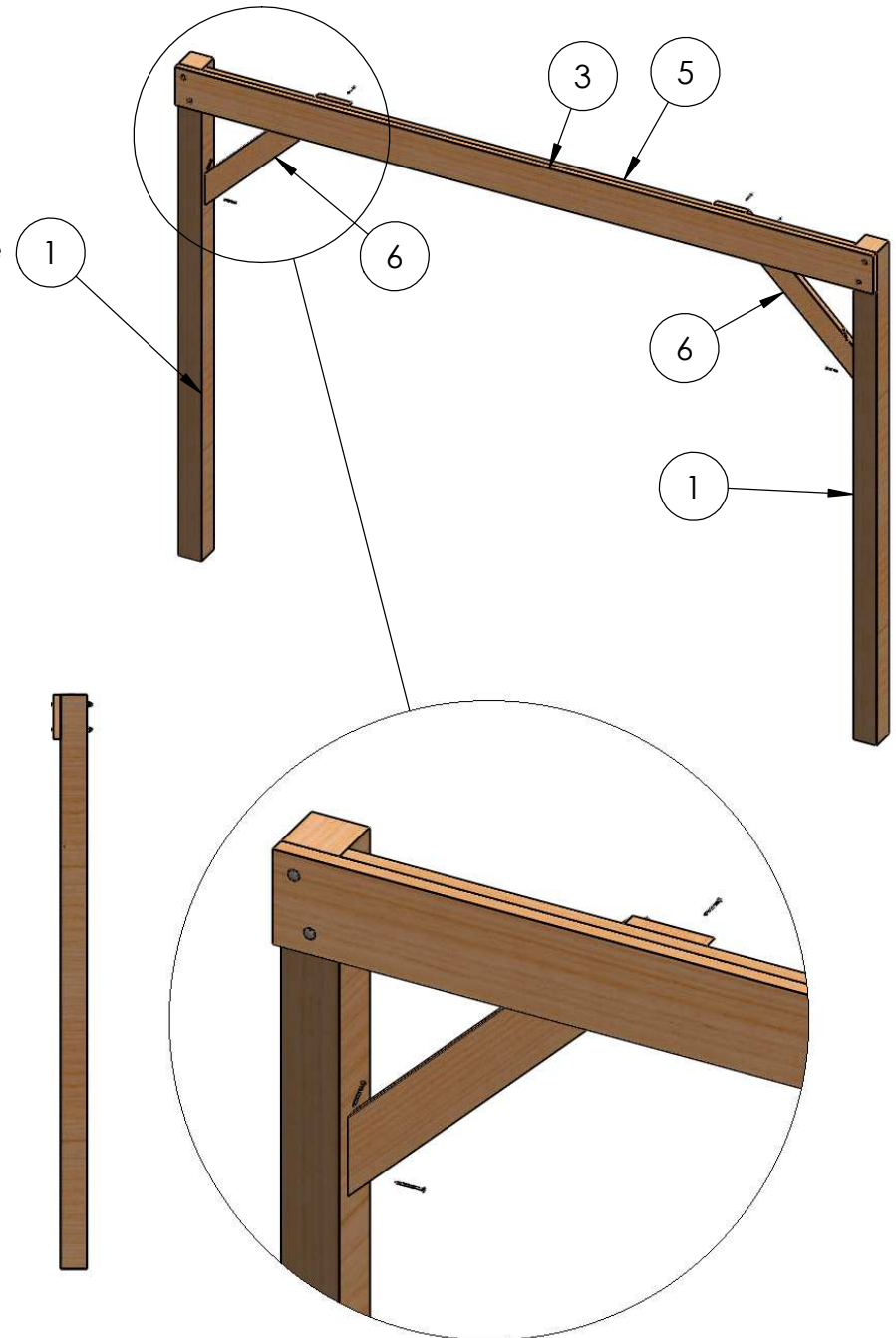
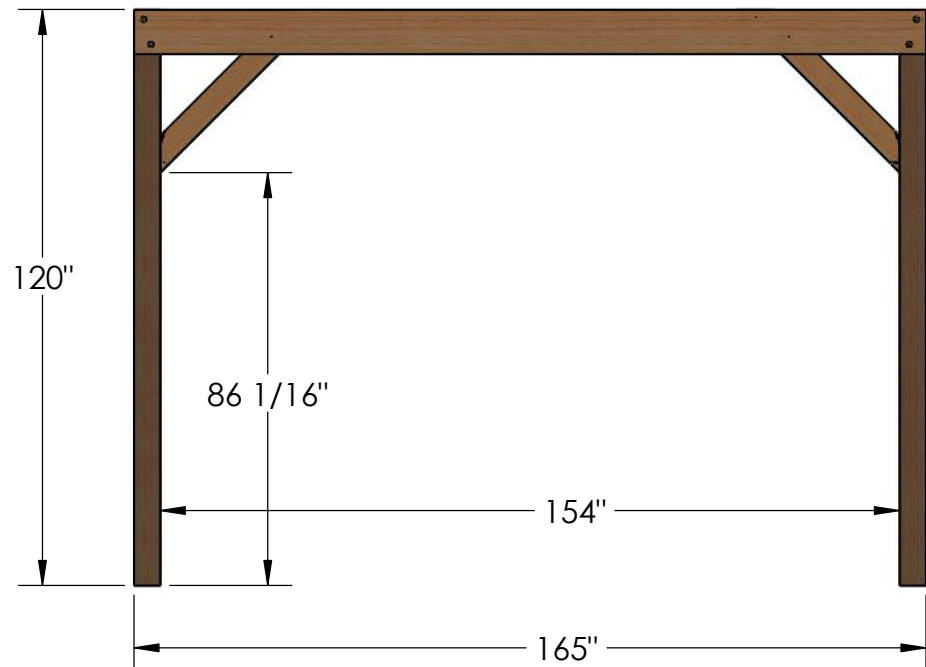
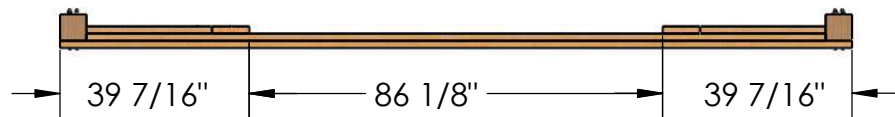


Using one of the 8ft 2 x 6's, cut four pcs 21-1/16" long with an 18° angle on each end as shown, and a 45° compound miter on one side of the top end as shown. Then cut a bird's mouth as shown below in each one. See Attachment 004 at the end of these plans for a template for cutting the bird's mouth.



Item No. Material: Gazebo End
1A Qty.: 2

Lay out 2 of the 10' 6 x 6's (Item #1) 154" apart and lay a 165" 2 x 10 (Item #3) across the top of them. Start with one side and square up the 2 x 10 and make sure it is flush with the edge and top of the 6 x 6. Then drill two 1/2" holes through both boards in a diagonal pattern. See illustration below. Bolt boards together using two 1/2" x 8" Carriage Bolts and nuts and washers. Repeat with the other side. Next screw the inside stringer (Item #5) to the inside of the top stringer as shown. Finally screw in braces (Item #6) using 2-1/2" Deck Screws. Screw brace to top board first, then make sure end is square before screwing brace to 6 x 6 leg. See illustration below.

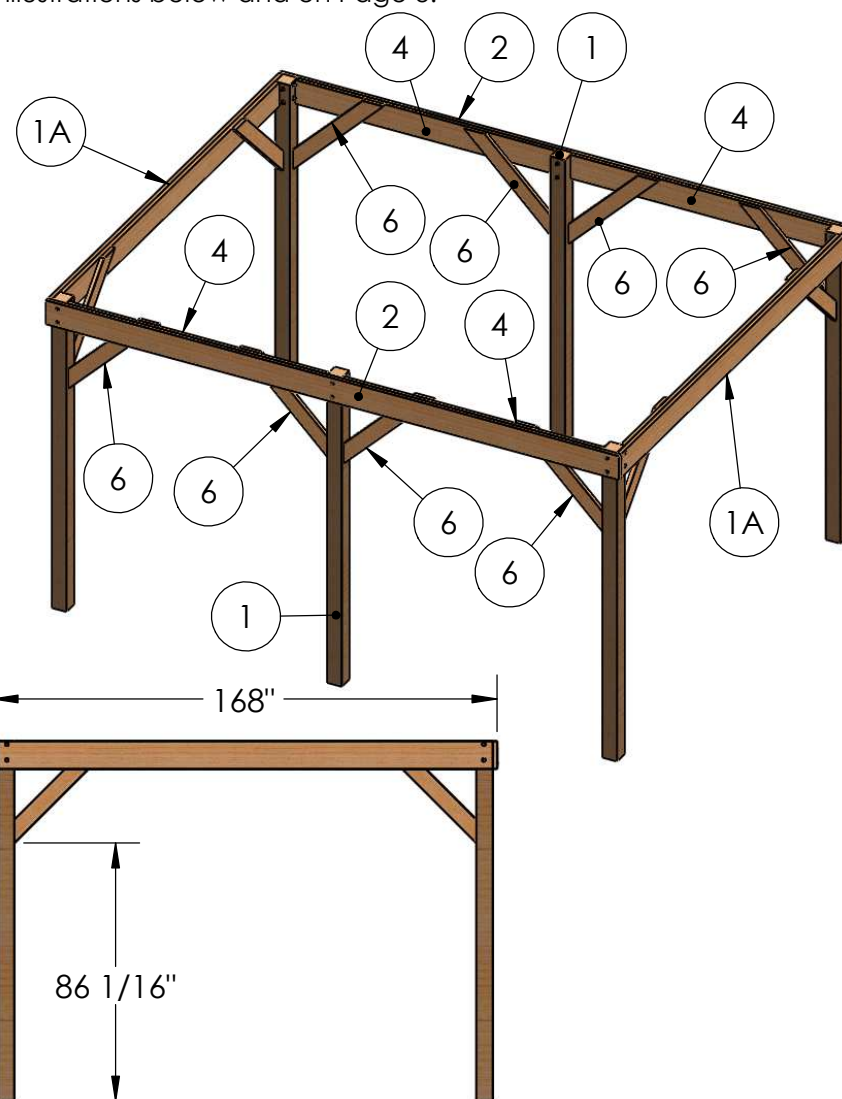
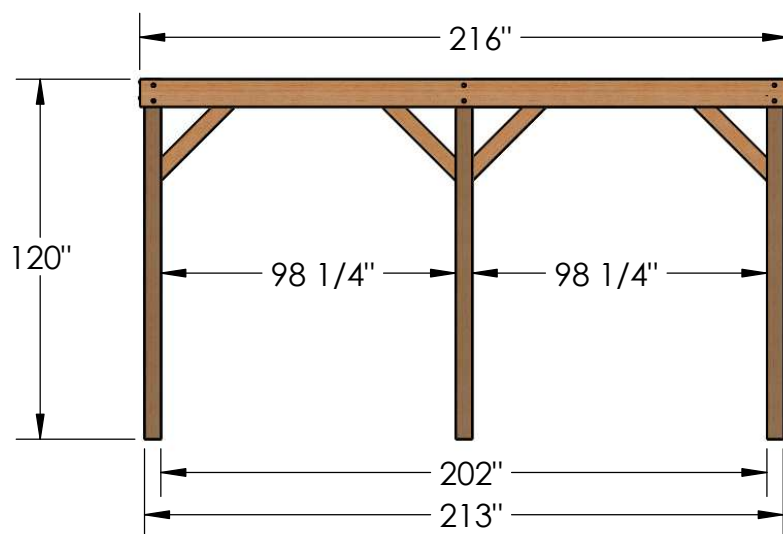
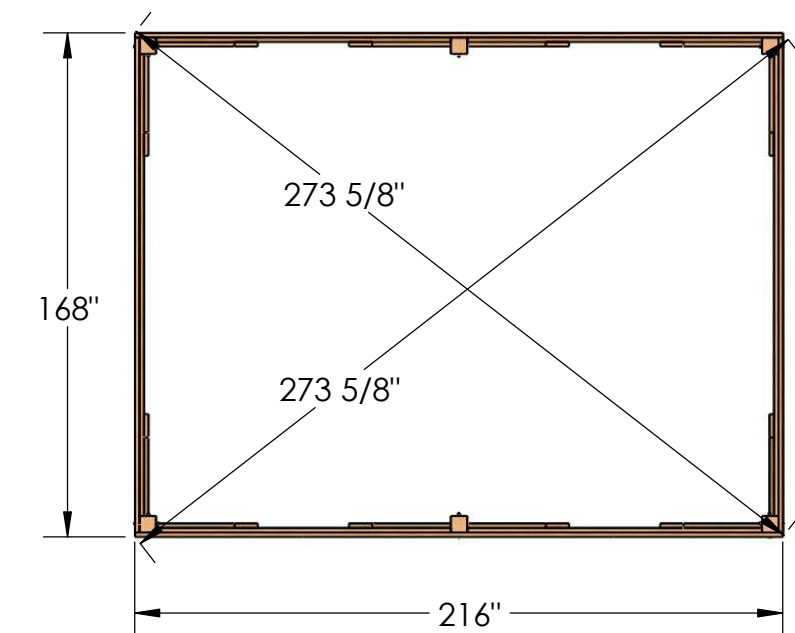


Item No. Material: Gazebo Base

1B

Qty.: 1

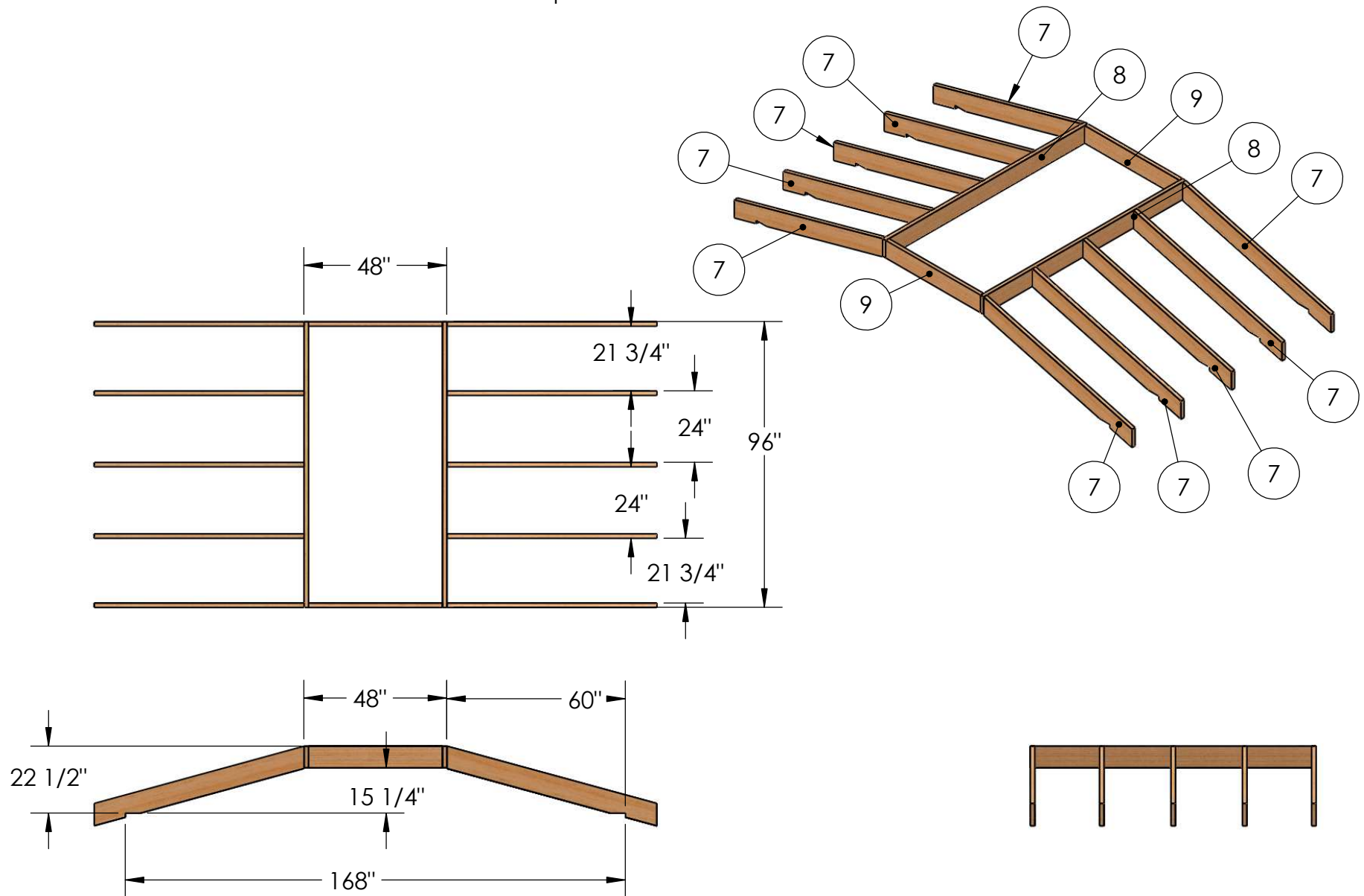
Stand up the 2 Gazebo Ends (Item #1A) that you assembled in Step 3 (this will require more than one person). Then clamp the Front Stringers (Item #2) to each side and drill and bolt with 1/2" x 8" Carriage Bolts the same way you did in Step 3. Then stand up the remaining 6 x 6 posts (Item #1) in the center of the assembly as shown. Bolt the posts to the front stringers using 1/2 x 8" carriage bolts. Next, screw the Inside Stringers (Item #4) to the inside of the base. Finally, make sure the sides and top are square by cross measuring and screw the Leg Braces (Item #6) to the sides the same way you did in Step 3. See illustrations below and on Page 3.



Step 4 - Assemble Rafter

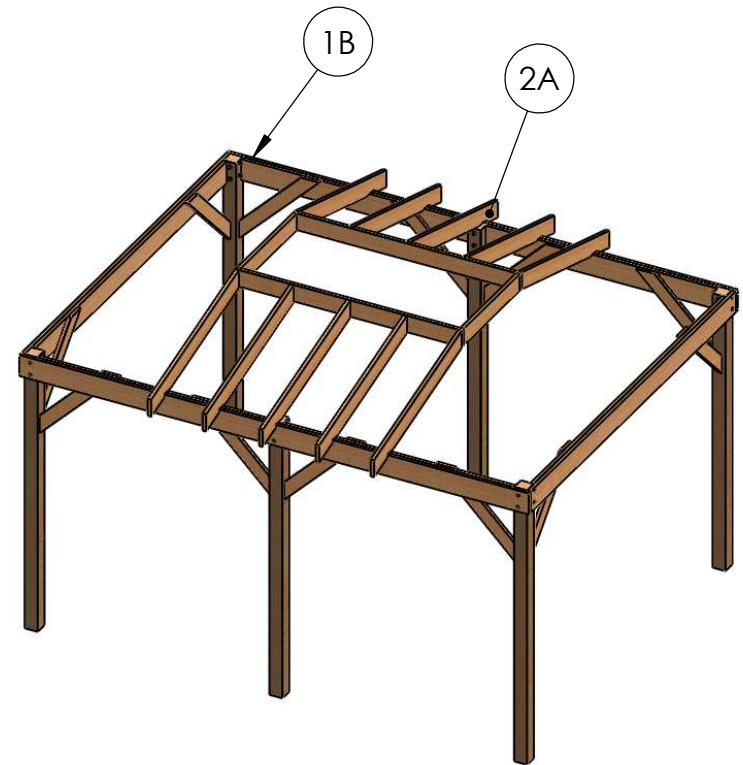
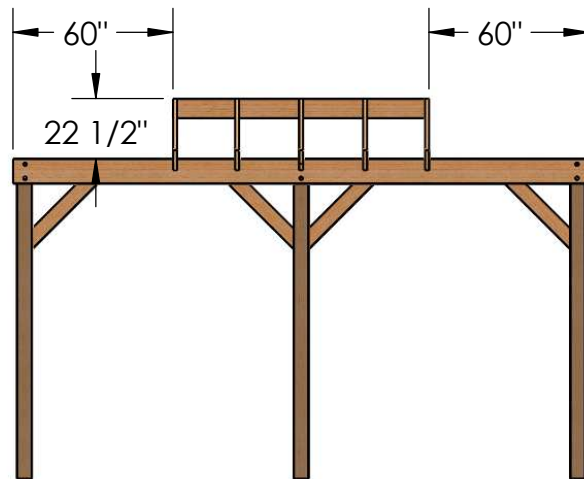
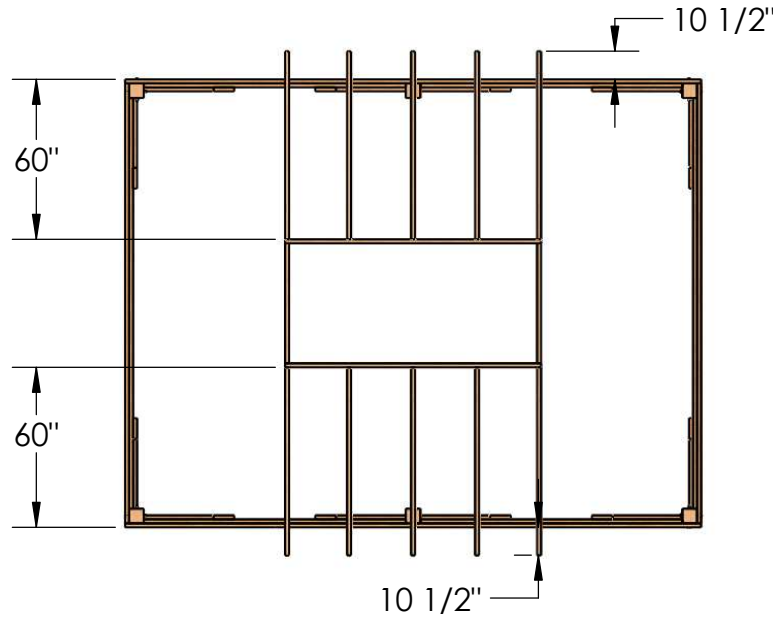
Item No. 2A Material: Rafter Sub-Assembly
Qty.: 1

Assemble the main rafter sub-assembly as shown below. Fasten securely using 2-1/2" wood screws. Take care to keep the assembly square.

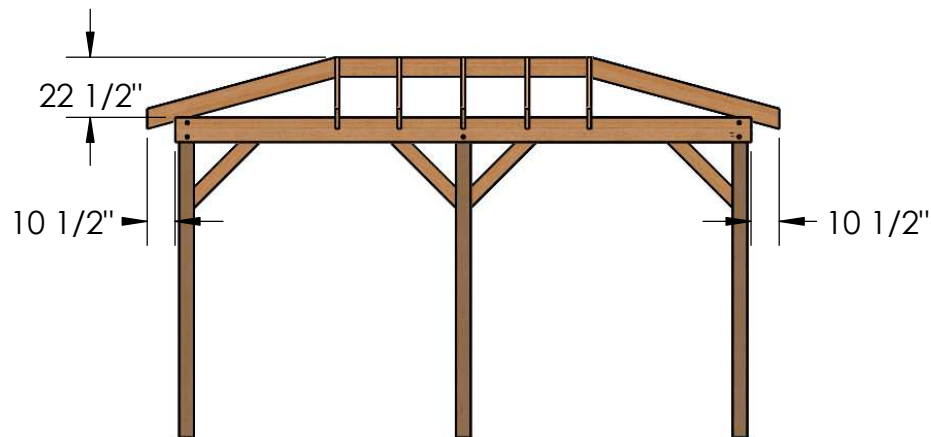
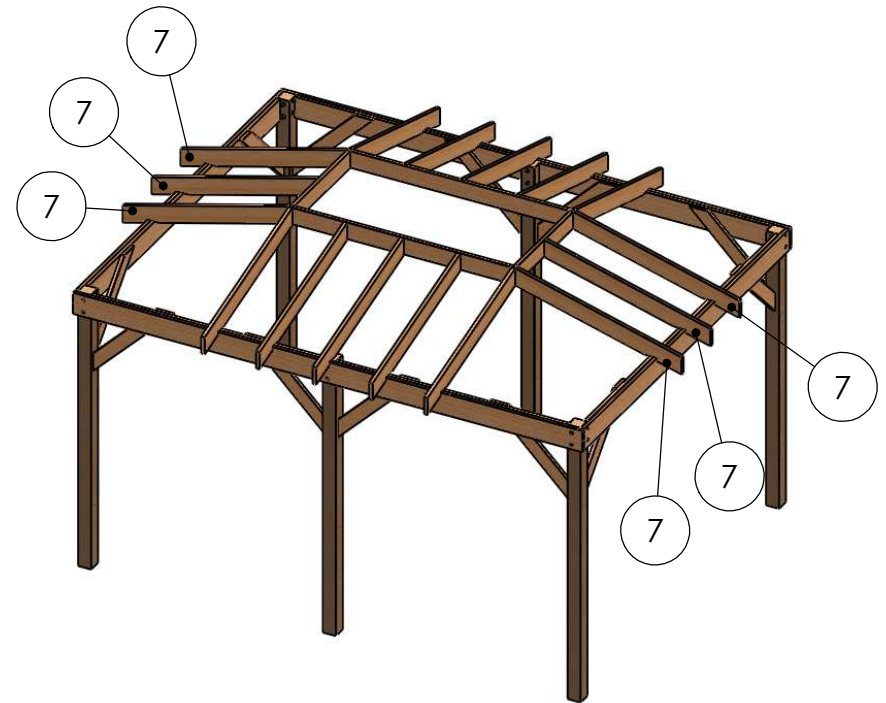
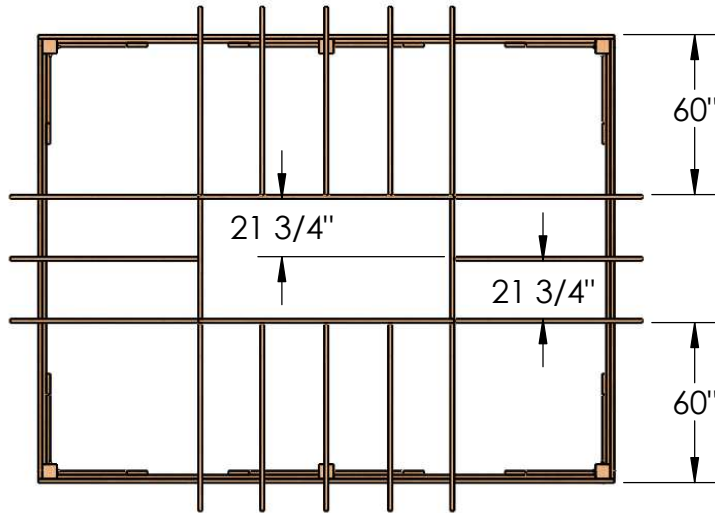


Step 5 - Install 1st Rafter

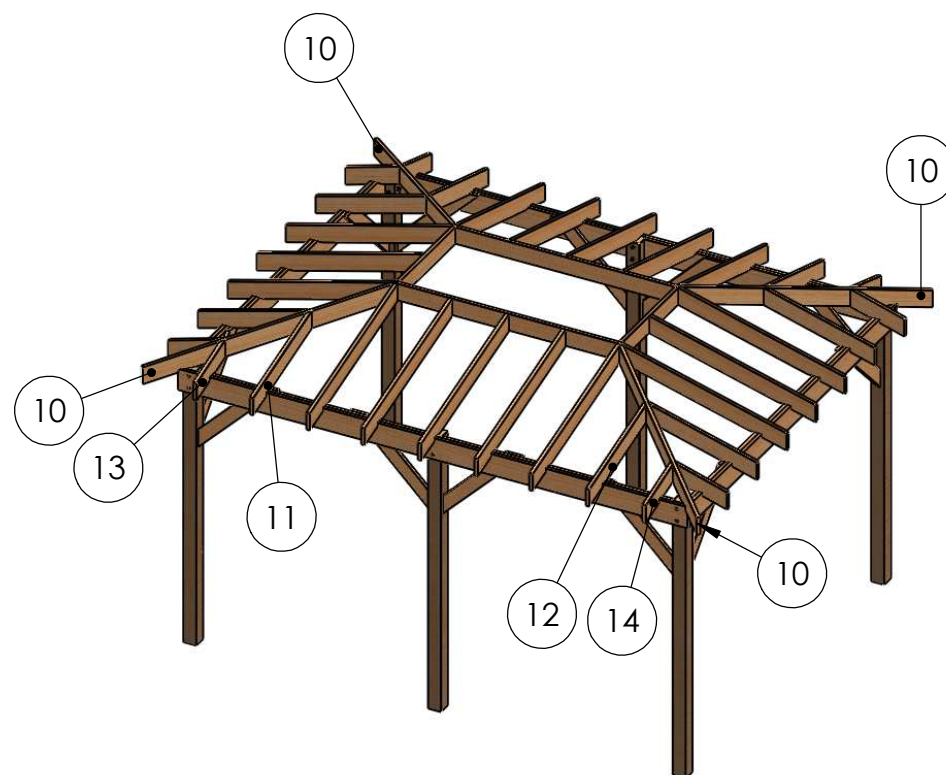
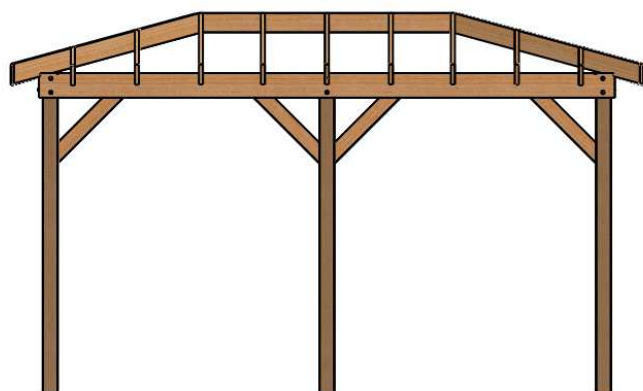
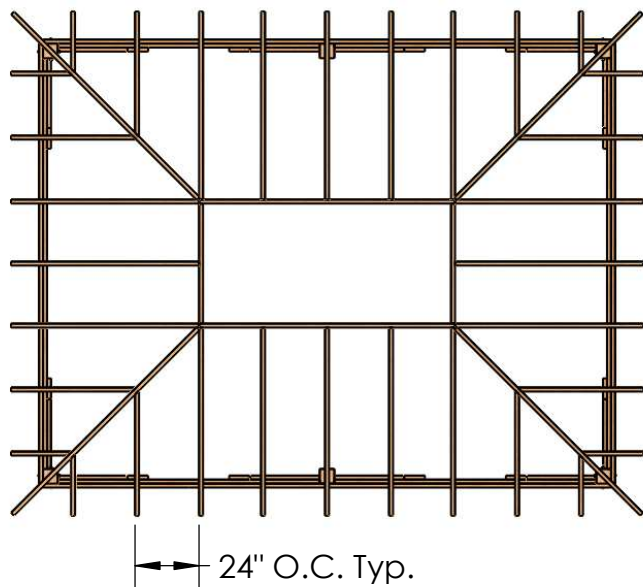
Attach rafter sub-assembly (Item #2A) to the gazebo base as shown below using 2 screws on each side of the board driven in at an angle. See illustration below.



Attach the six remaining center rafters (Item #7) to the gazebo base as shown below using 2 screws on each side of the board at each corner screwed in at an angle the same way you attached the rafter sub-assembly in Step 7. Screw rafters to rafter sub-assembly at the top using 2 screws screwed in at an angle on each side of each rafter. See illustration below.



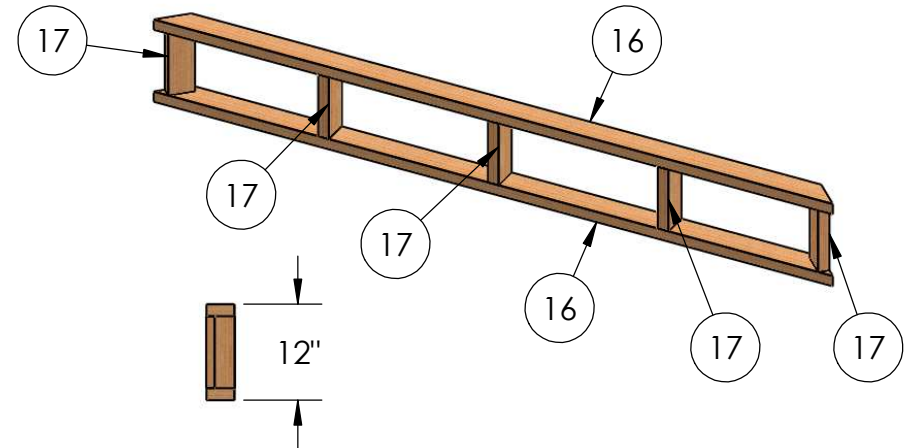
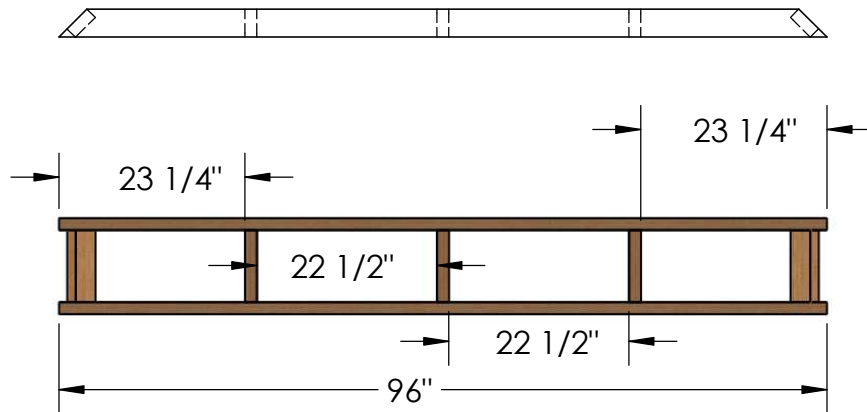
Attach the remaining lower rafters (Items #10-14) to the gazebo base as shown below using 2 screws on each side of the board at each corner screwed in at an angle the same way you attached the first rafters sub-assembly. Screw rafters to rafter sub-assembly at the top using 2 screws screwed in at an angle on each side of each rafter. See illustration below.



Step 7 - Assemble Upper Roof Base

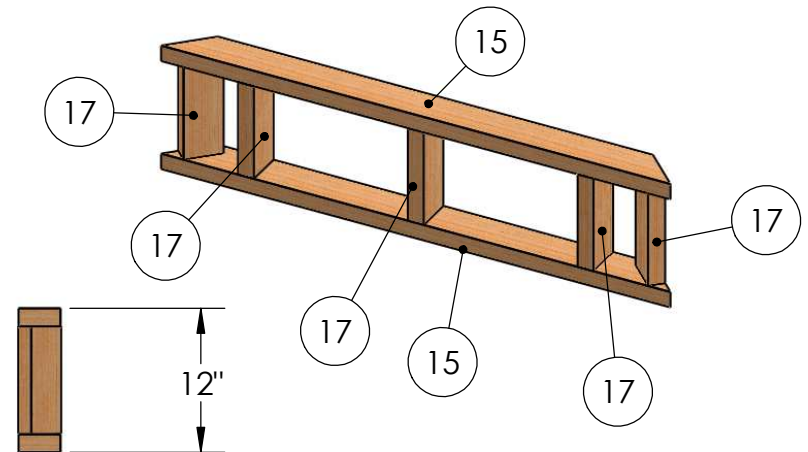
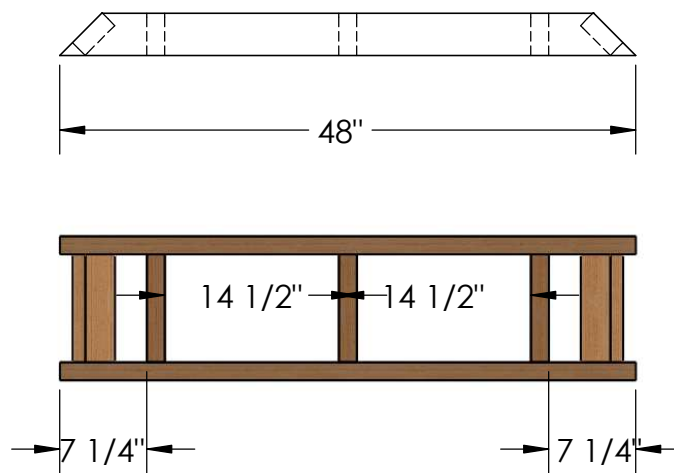
Item No. 3A Material: Long Upper Roof Support Frame
Qty.: 2

Assemble the Upper Roof Support Frame as shown below using Items # 16 and 17. Secure using 2-1/2" wood screws. Build two of these.

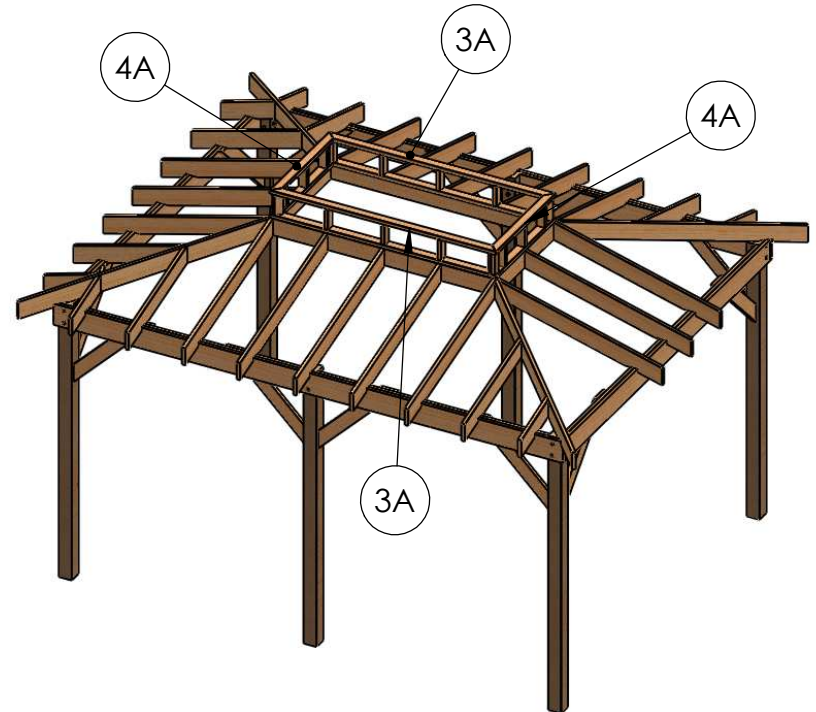
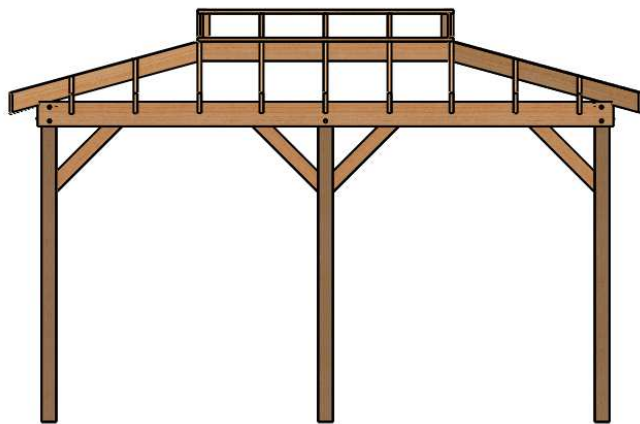
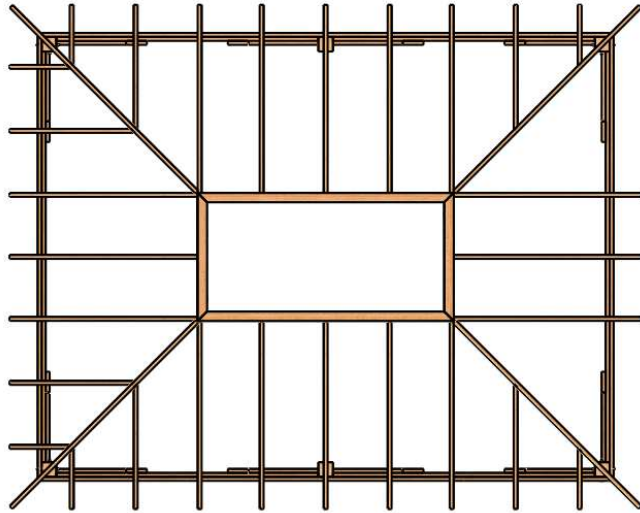


Item No. 4A Material: Upper Roof Support Frame
Qty.: 2

Assemble the Upper Roof Support Frame as shown below using Items # 15 and 17. Secure using 2-1/2" wood screws. Build two of these.



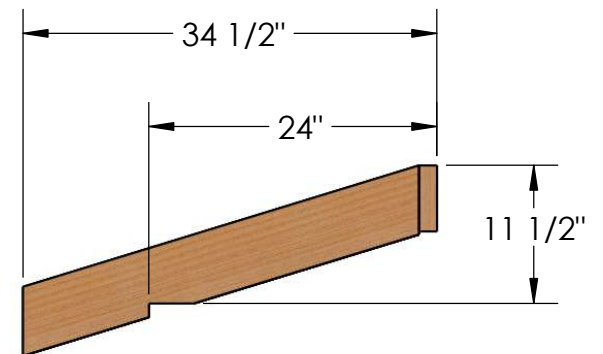
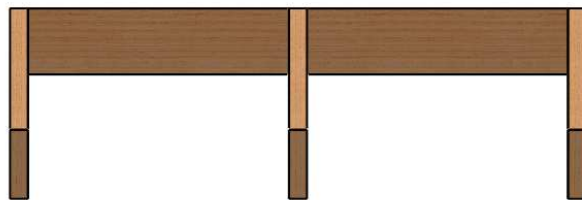
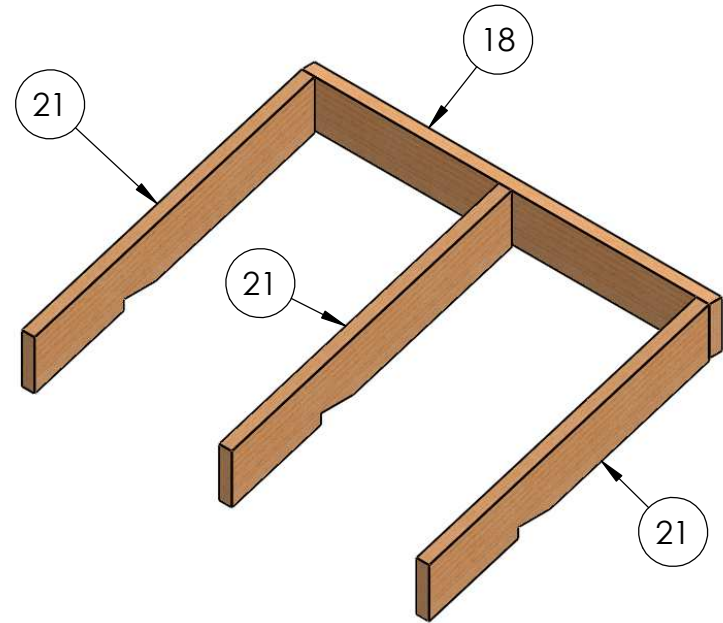
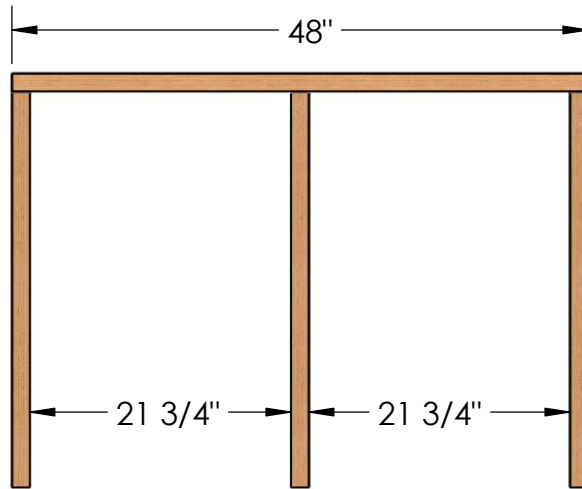
Attach the four upper roof supports (Item #3A&4A) to the top of the lower rafters as shown to make a box on the top of the gazebo. Secure using 2-1/2" wood screws. See illustration below.



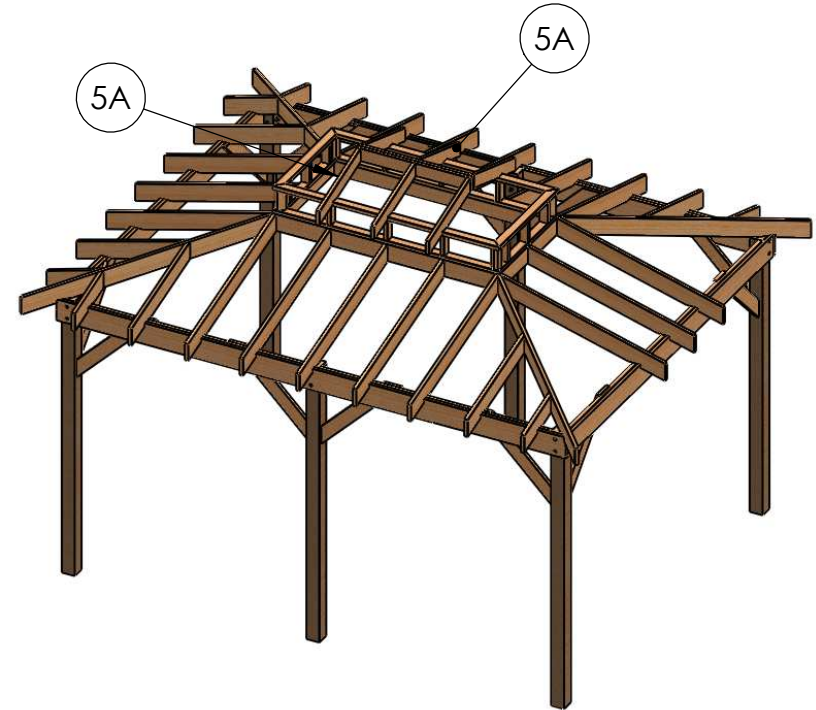
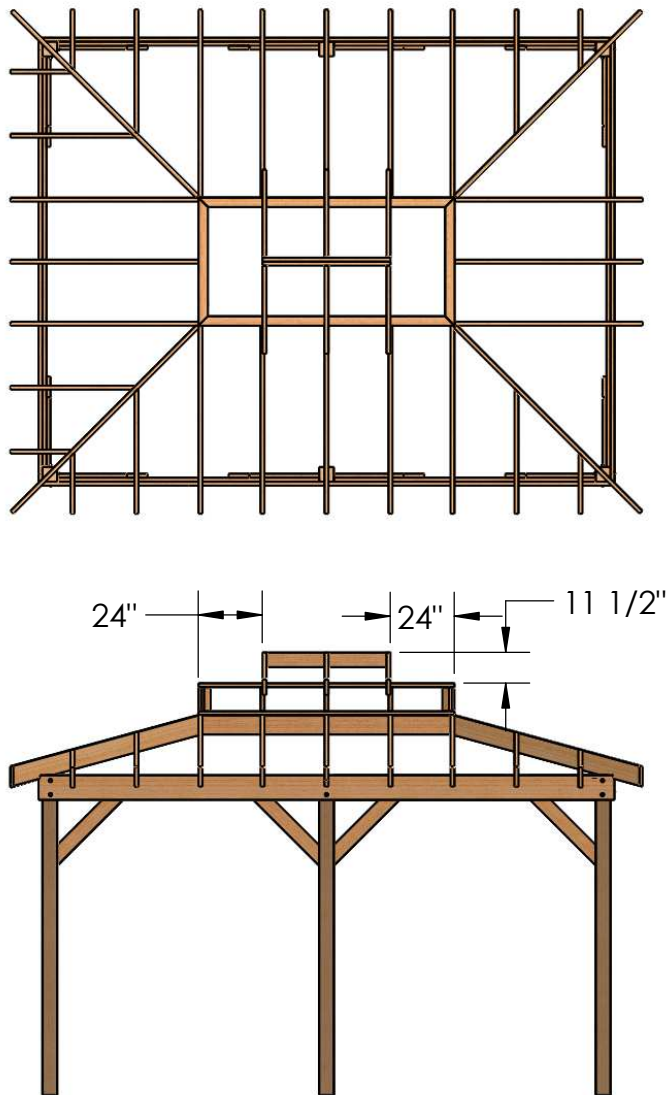
Step 9 - Assemble Upper Center Rafters

Item No. 5A Material: Upper Center Rafter Assembly
Qty.: 2

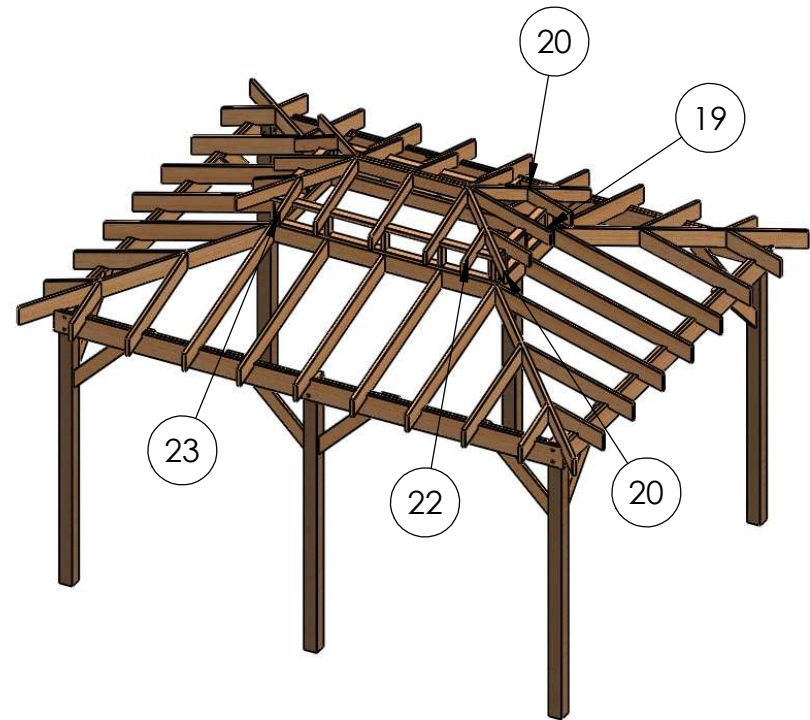
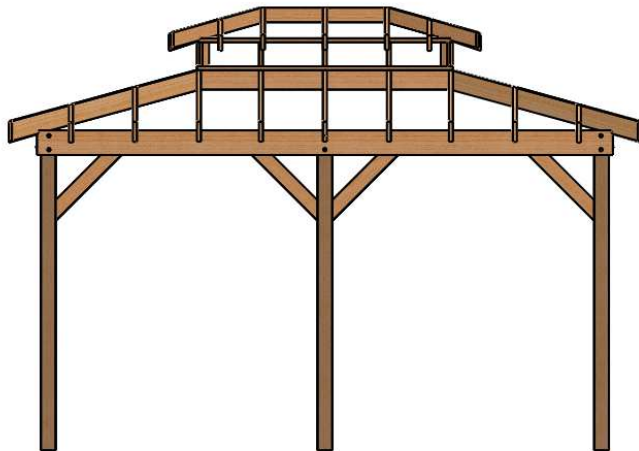
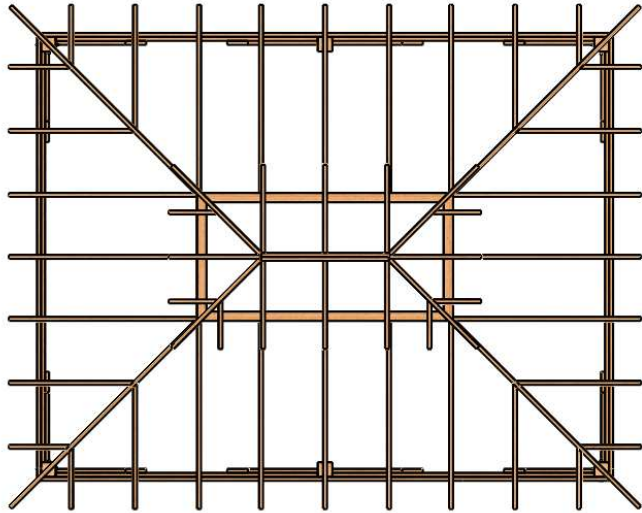
Assemble the Upper Roof Center Rafter as shown below using Items # 18 and 21. Secure using 2-1/2" wood screws. Build two of these.



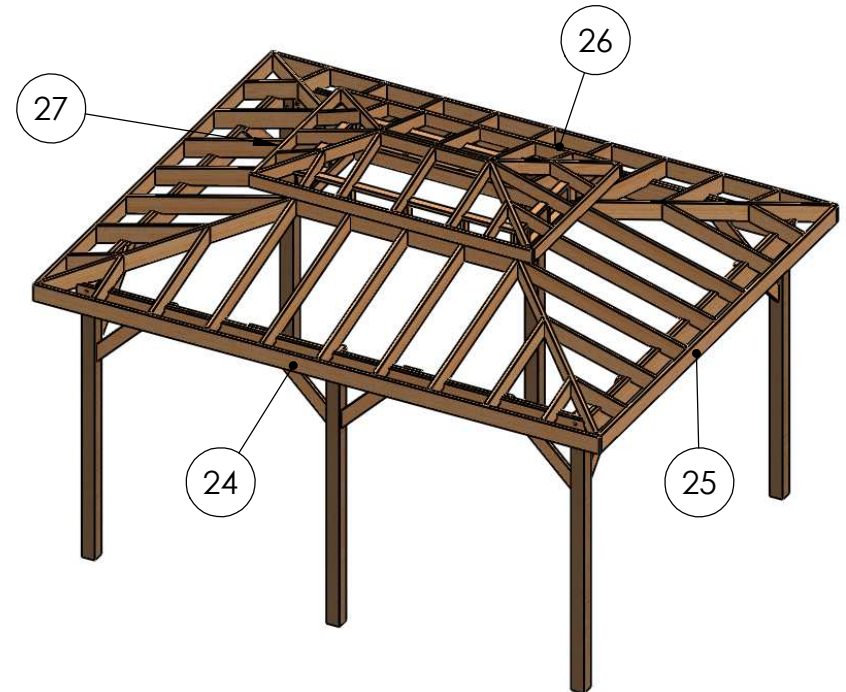
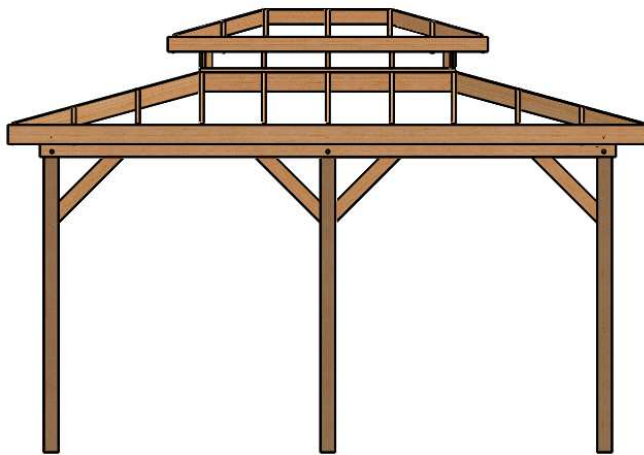
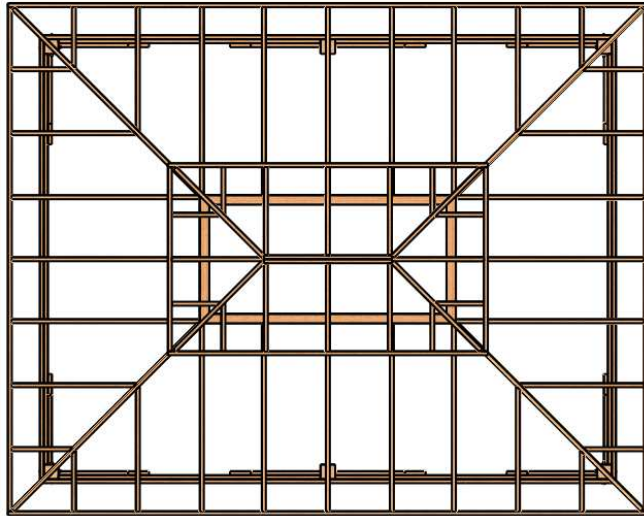
Install the first two upper rafters (Item #5A) on the top of the square frame diagonally as shown below using 2 screws on each side of the board at each corner screwed in at an angle the same way you attached the lower rafters. Screw rafters to each other at the top and using 2 screws screwed in at an angle on each side of each rafter. See illustration below.



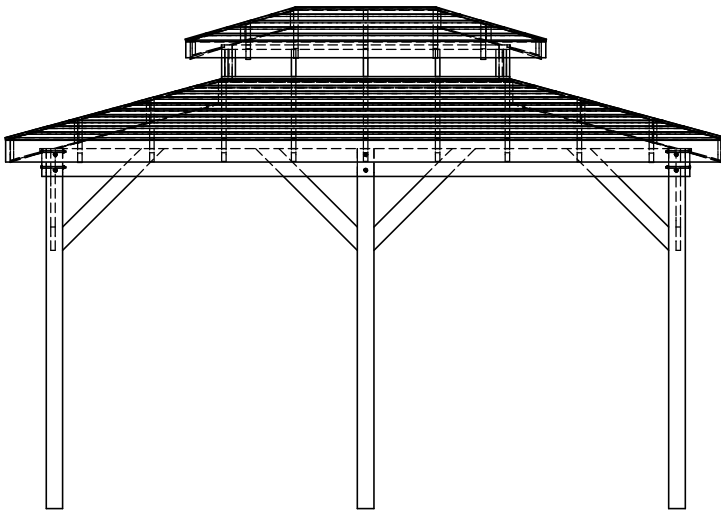
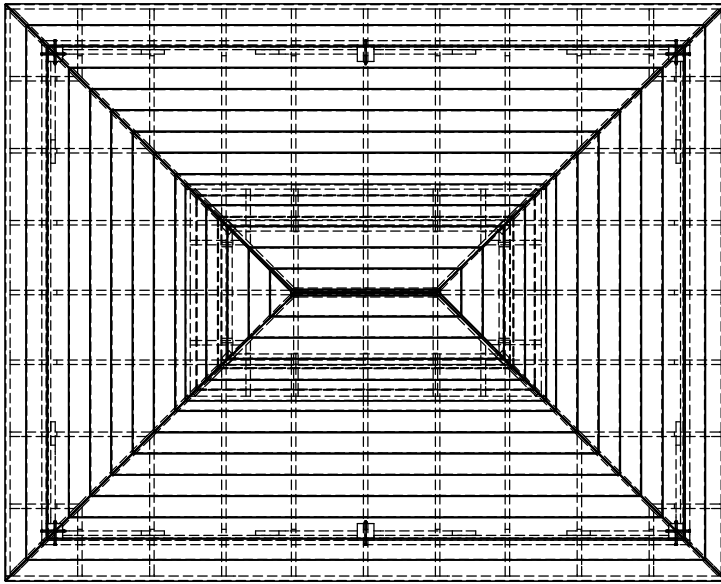
Install the remaining upper rafters (Items #19,20,22,&23) on the top of the square frame diagonally as shown below using 2 screws on each side of the board at each corner screwed in at an angle the same way you attached the lower rafters. Screw rafters to the first rafters at the top using 2 screws screwed in at an angle on each side of each rafter. See illustration below.



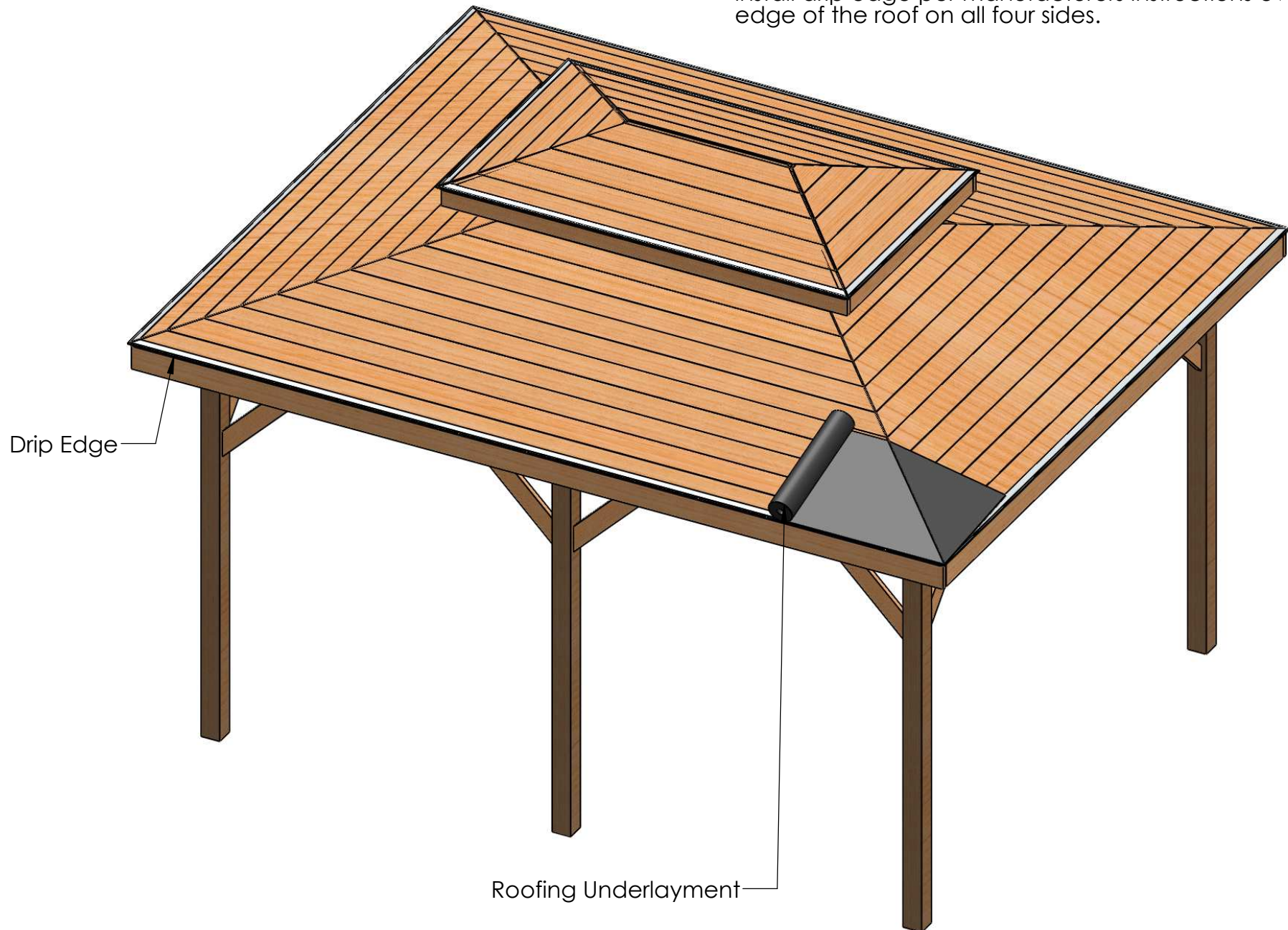
Attach the Eave Boards (Items #24 - 27) around the perimeter of the upper and lower roof as shown below using 2 screws into each rafter. See illustration below.



Field fit and cut the 1 x 8 planks to fit and attach to the roof as shown using 1-3/4" wood screws.



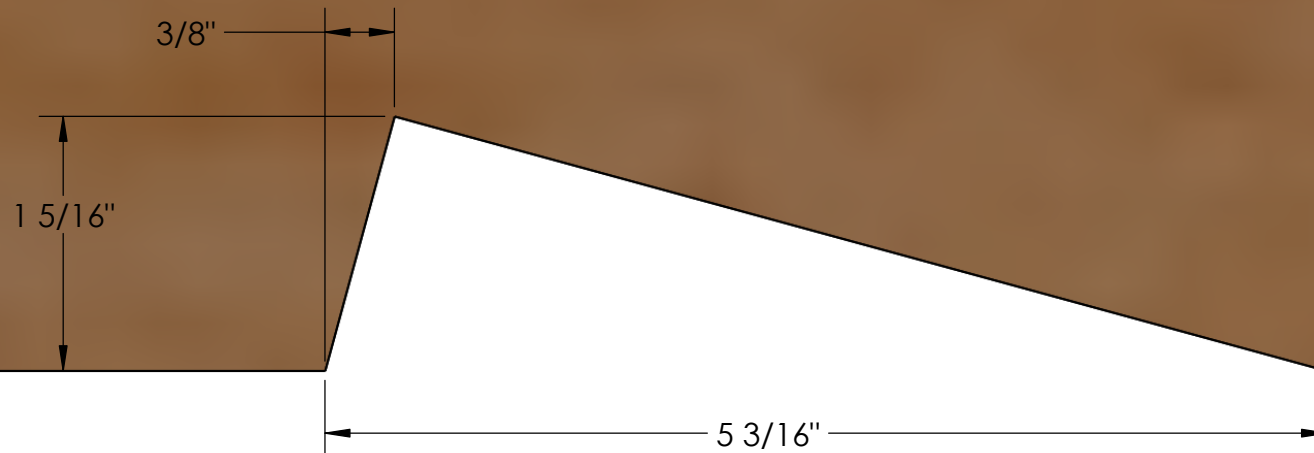
Roll out roofing underlayment onto roof as shown below. Be sure to overlap the corners. Attach using staples. Then install drip edge per manufacturers instructions over the edge of the roof on all four sides.



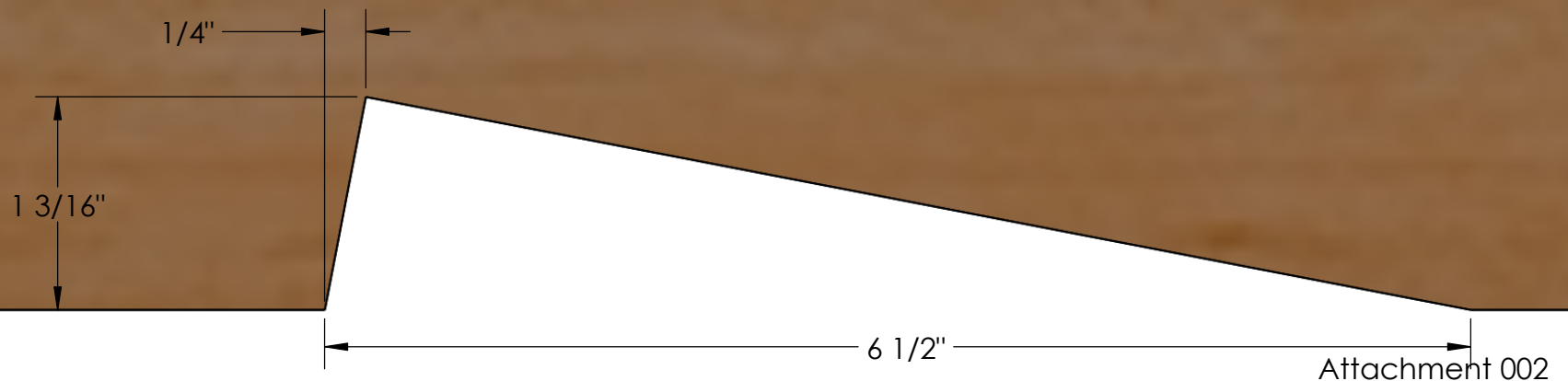
Cover the roof with desired shingles being sure to follow shingle manufacturers instructions. Cover each corner with ridge cap. Finish the wood frame as desired and you are ready to start enjoying your gazebo.



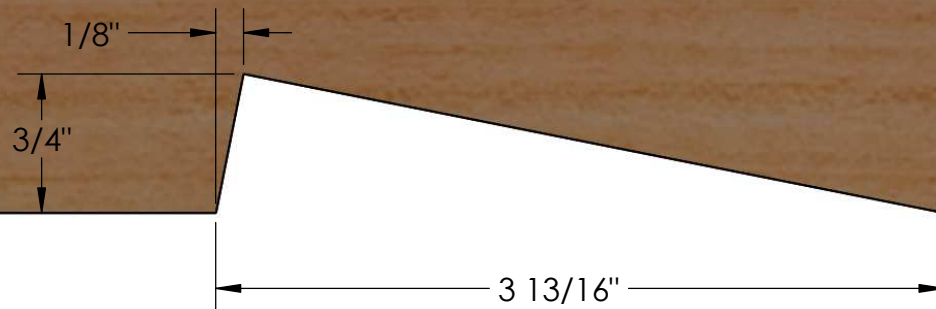
Item # 7, 11, 12, 13 & 14 Birds Mouth Template
Actual Size
Cut notch shown and
use to mark out rafters

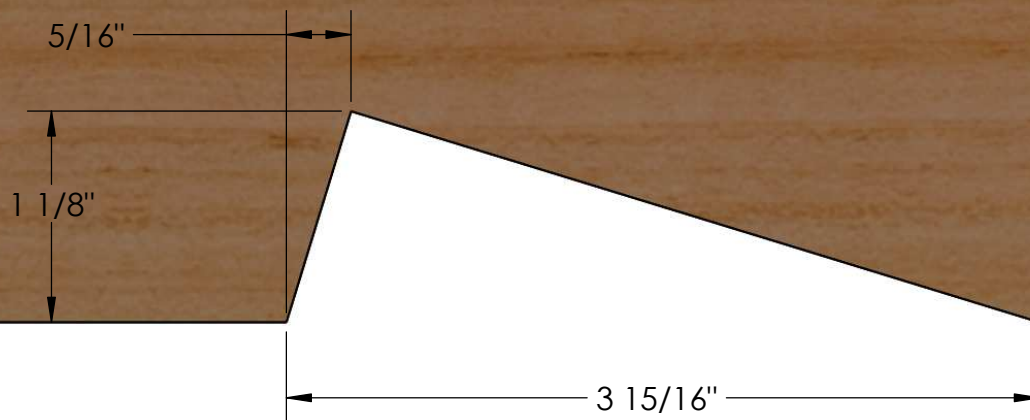


Item # 10 Bird's Mouth Template
Actual Size
Cut angle shown and
use to mark out rafters



Item # 19 & 20 Birds Mouth Template
Actual Size
Cut notch shown and
use to mark out rafters





Items # 22 &23 Template
Actual Size
Use to cut bird's mouth