

Creating Exposed Rafter Tails

Reference Number: **KB-00488**

Last Modified: **June 7, 2024**

The information in this article applies to:



QUESTION

I would like to create and display exposed rafter tails in designs. How can I do this?



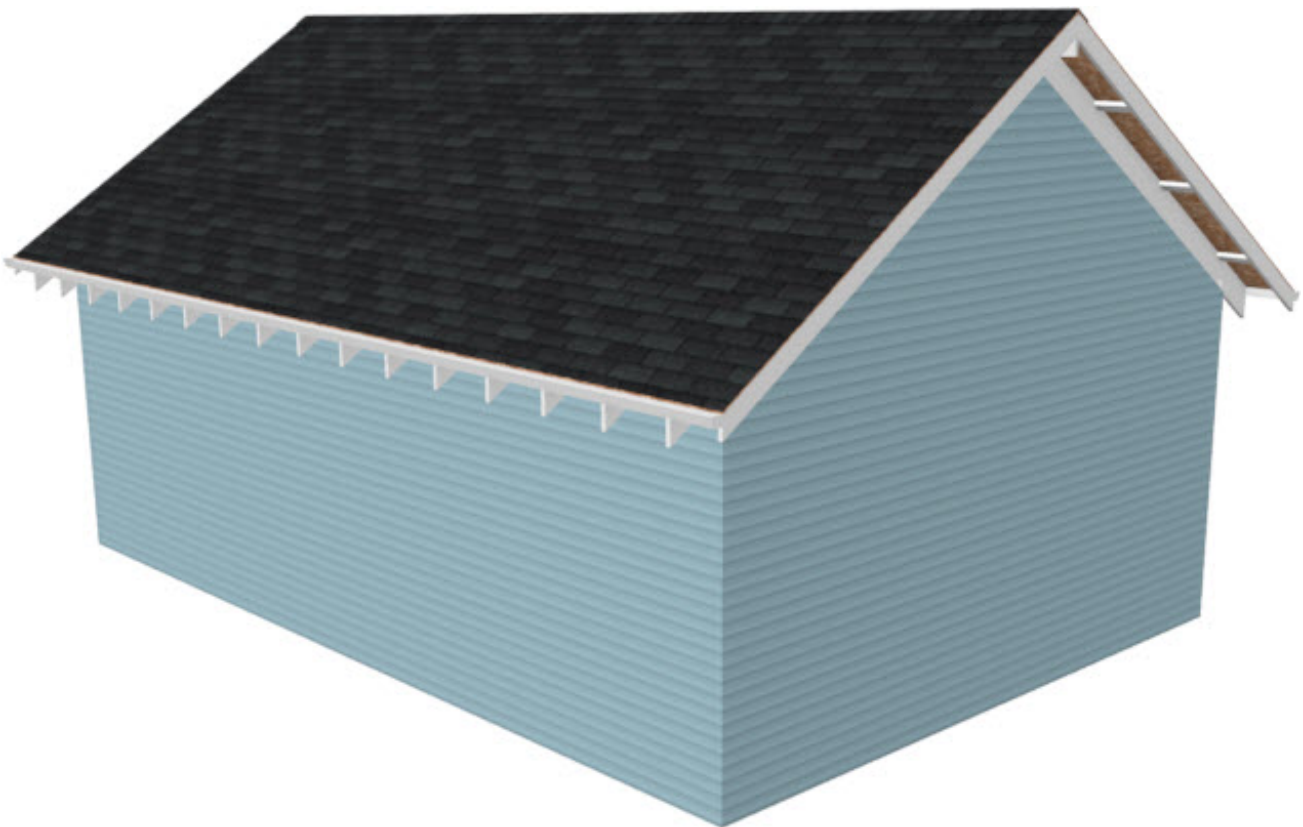
ANSWER

Rafter tails are rafter ends that overhang the bearing walls and are located under the eaves. They can be the full rafter depth or trimmed to the depth of the soffits and sometimes feature decorative profiles. Rafter tails can also be fully exposed, or partially enclosed by soffits.

- To create fully exposed rafter tails
- To create partially exposed rafter tails

This article assumes you have already specified your Roof Framing Defaults, but you have not yet created roof planes. If your plan already has a roof built and Auto Rebuild Roofs is disabled, group select all of the roof planes that will have exposed rafters and complete the steps described below in the Roof Plane Specification instead of the Build Roof dialog.

To create fully exposed rafter tails

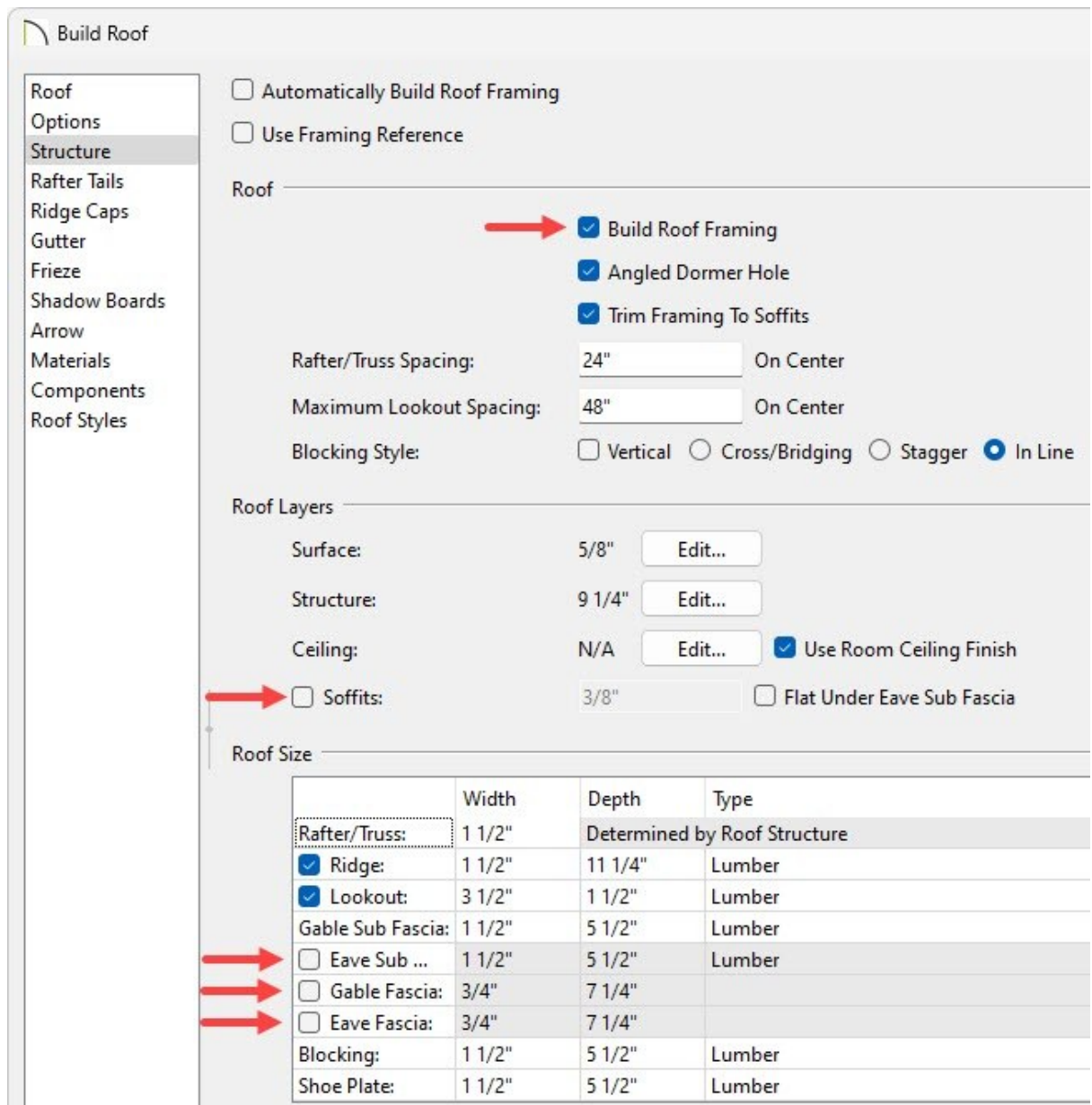


1. In your desired plan select **Build> Roof> Build Roof**  and in the **Build Roof** dialog that displays:

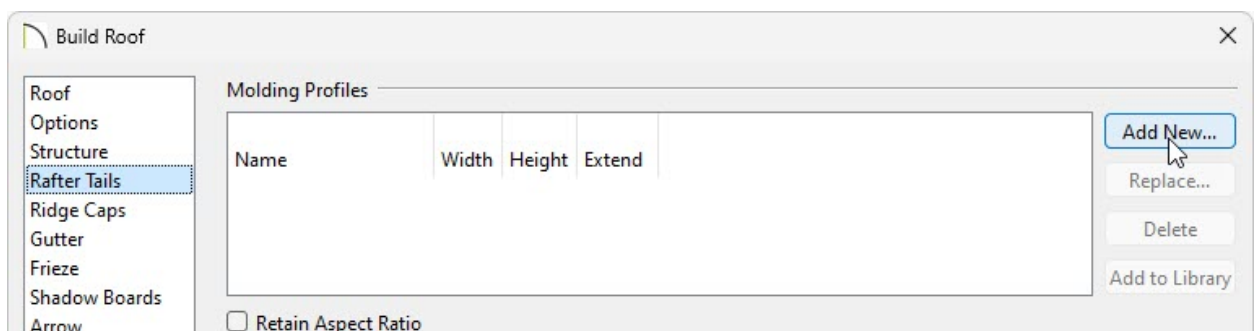
- On the **Roof** panel, check the **Build Roof Planes** box.

Heel height/birdsmouth cut properties can also be adjusted on this panel. For more information, click the Help button located at the bottom of the dialog to open your program's documentation.

- On the **STRUCTURE** panel:
 - Check **Build Roof Framing**.
 - Remove the check from **Soffits**.
 - Remove the check from **Eave Sub Fascia**.
 - Remove the check from **Gable Fascia** or **Eave Fascia**. Unchecking one will also uncheck the other.





- If a decorative rafter end is going to be used, select the **RAFTER TAILS** panel and click **Add New** to browse the library for a suitable rafter tail profile.



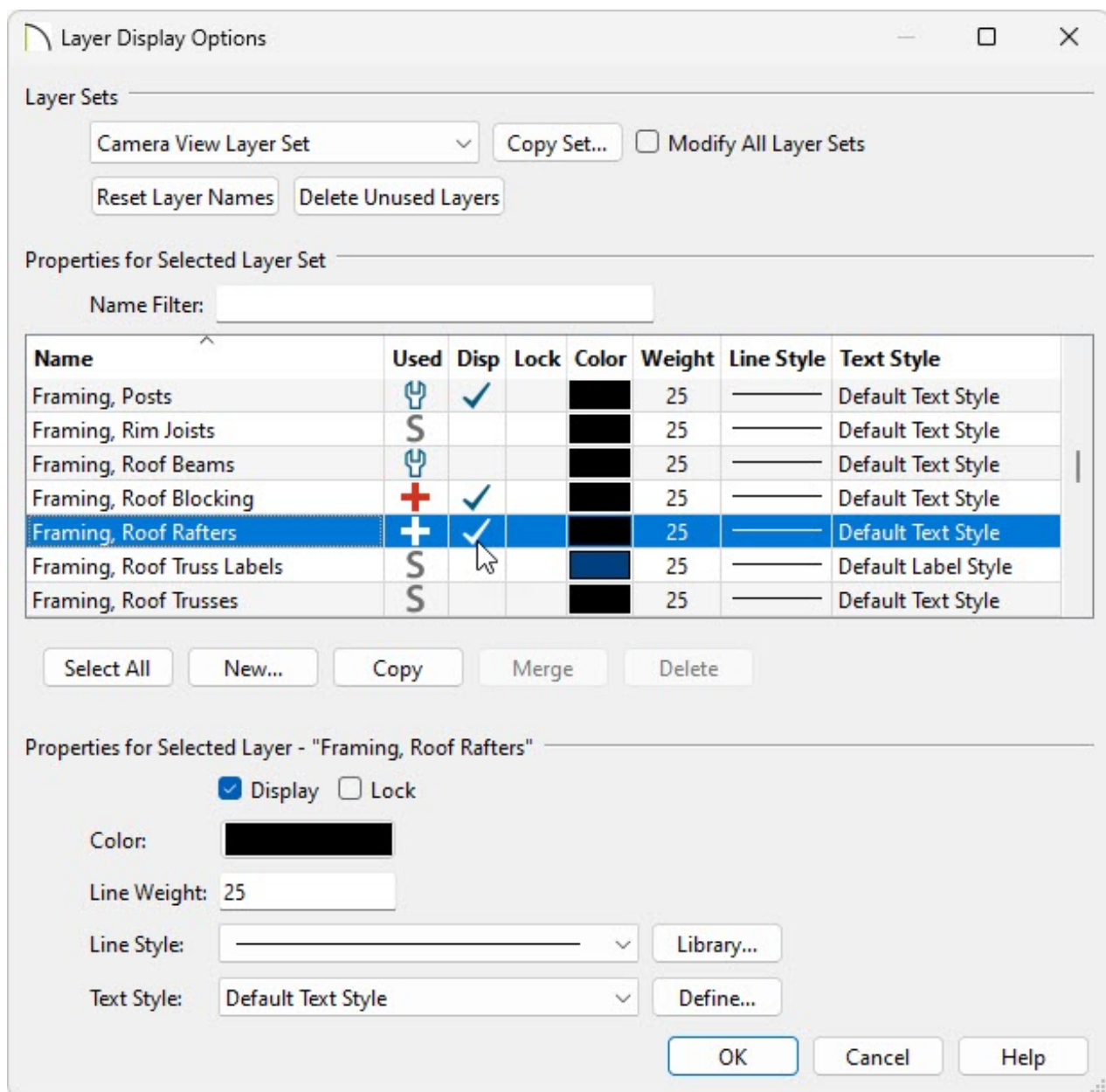
- Click **OK** to close the dialog and generate the roof.

Note: If a Question dialog appears, click Yes if you want to see the rafters displayed in the plan view, or click No if you don't want to see the rafters in

the plan view.

2. Select **3D> Create Perspective View> Perspective Full Overview**  to create a 3D view of the structure.
3. Framing layers are not displayed in this type of camera view by default. To turn on roof rafters, select **Tools> Layer Settings> Display Options**  and in the **Layer Display Options** dialog that opens:

The Active Layer Display Options side window can also be used to toggle the display of layers on or off. For more information, please watch [Video 5302: Active Layer Display Options Side Window](https://www.chiefarchitect.com/videos/watch/5302/active-layer-display-options-side-window.html?playlist=100) (<https://www.chiefarchitect.com/videos/watch/5302/active-layer-display-options-side-window.html?playlist=100>).

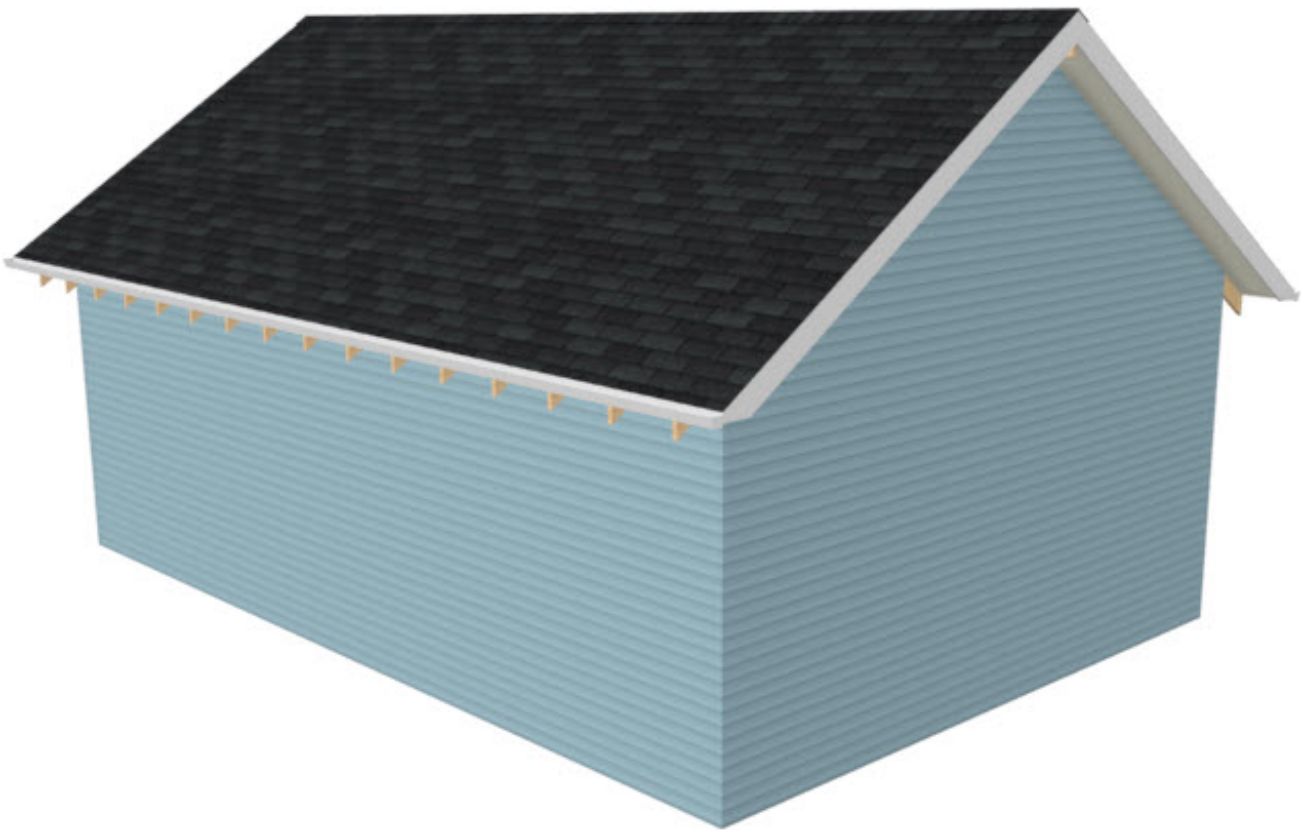


- Verify that the correct Layer Set is selected.

In this example, the Camera View Layer Set is selected, which is the default for the Perspective Full Overview tool.

- Locate the "Framing, Roof Rafters" layer and place a check in the **Disp** column.
- Click **OK** to confirm the change and close the dialog.

To create partially exposed rafter tails



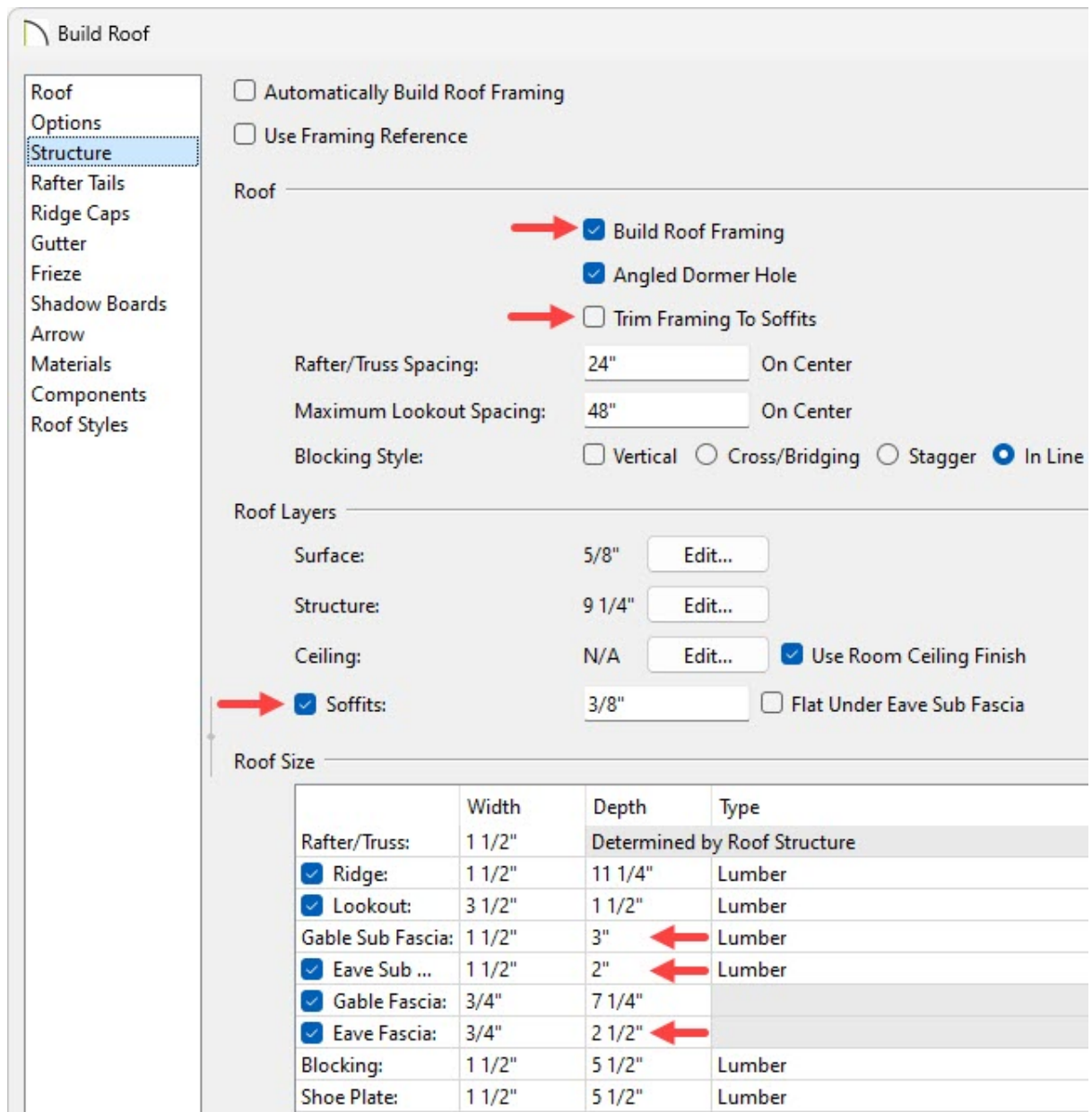
1. In your desired plan select **Build> Roof> Build Roof**  and in the **Build Roof** dialog that displays:

- On the **Roof** panel, check the **Build Roof Planes** box.

Heel height/birdsmouth cut properties can also be adjusted on this panel. For more information, click the Help button located at the bottom of the dialog to open your program's documentation.

- On the **STRUCTURE** panel:
 - Check **Build Roof Framing**.
 - Remove the check from **Trim Framing to Soffits**.
 - Check **Soffits**.
 - Check and specify the **Fascia** and **Sub Fascia Depths**, if desired.

In this example, the Gable Sub Fascia Depth is set to 3", the Eave Sub Fascia Depth is set to 2", and the Eave Fascia Depth is set to 2 1/2", though these will likely vary for your roof, depending on what you want to show.





The Soffit height, along with its elevation, is determined by the depth of the Gable Sub Fascia.

- If a decorative rafter end is going to be used, select the **RAFTER TAILS** panel and click **Add New** to browse the library for a suitable rafter tail profile.

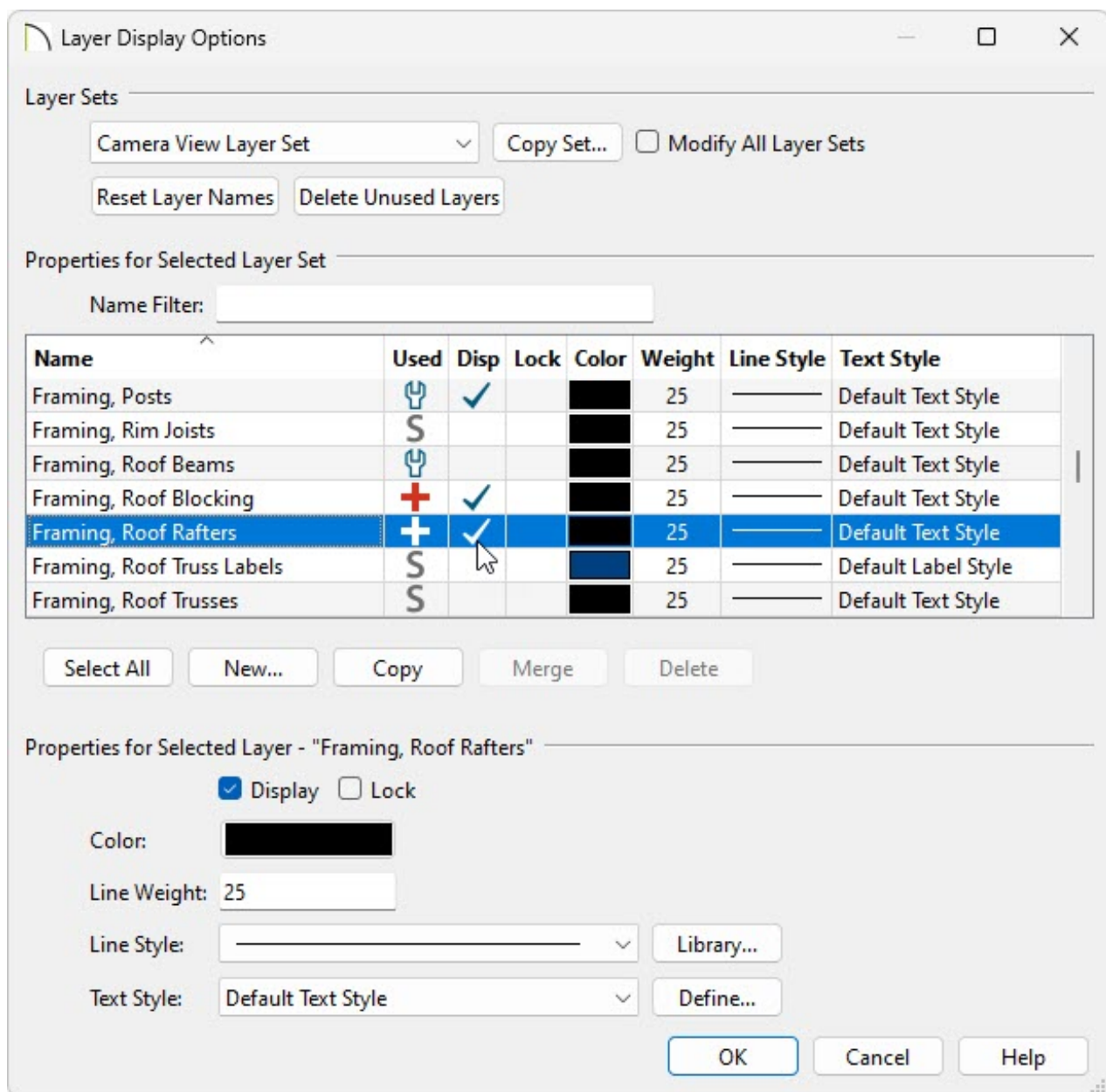


- Click **OK** to confirm the changes and close the dialog.

Note: If a Question dialog appears, click Yes if you want to see the rafters displayed in the plan view, or click No if you don't want to see the rafters in the plan view.

2. Select **3D> Create Perspective View> Perspective Full Overview**  to create a 3D view of the structure.
3. Framing layers are not displayed in this type of camera view by default. To turn on roof rafters, select **Tools> Layer Settings> Display Options**  and in the **Layer Display Options** dialog that opens:

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- Verify that the correct Layer Set is selected.

In this example, the Camera View Layer Set is selected, which is the default for the Perspective Full Overview tool.

- Locate the "Framing, Roof Rafters" layer and place a check in the **Disp** column.
- Click **OK** to confirm the change and close the dialog.

Related Articles

[Creating a Beam or Joist with a Decorative End \(/support/article/KB-00894/creating-a-beam-or-joist-with-a-decorative-end.html\)](/support/article/KB-00894/creating-a-beam-or-joist-with-a-decorative-end.html)

[Creating Roof Trusses \(/support/article/KB-00981/creating-roof-trusses.html\)](/support/article/KB-00981/creating-roof-trusses.html)

[📄 General Framing Guidelines \(/support/article/KB-00465/general-framing-guidelines.html\)](/support/article/KB-00465/general-framing-guidelines.html)

[📄 Generating Automatic Hip and Gable Roofs \(/support/article/KB-00758/generating-automatic-hip-and-gable-roofs.html\)](/support/article/KB-00758/generating-automatic-hip-and-gable-roofs.html)

[📄 Group Selecting Objects \(/support/article/KB-00623/group-selecting-objects.html\)](/support/article/KB-00623/group-selecting-objects.html)

[📄 Manually Drawing Framing Members \(/support/article/KB-00727/manually-drawing-framing-members.html\)](/support/article/KB-00727/manually-drawing-framing-members.html)



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