

Manually Editing Wall Framing

Reference Number: **KB-00571**

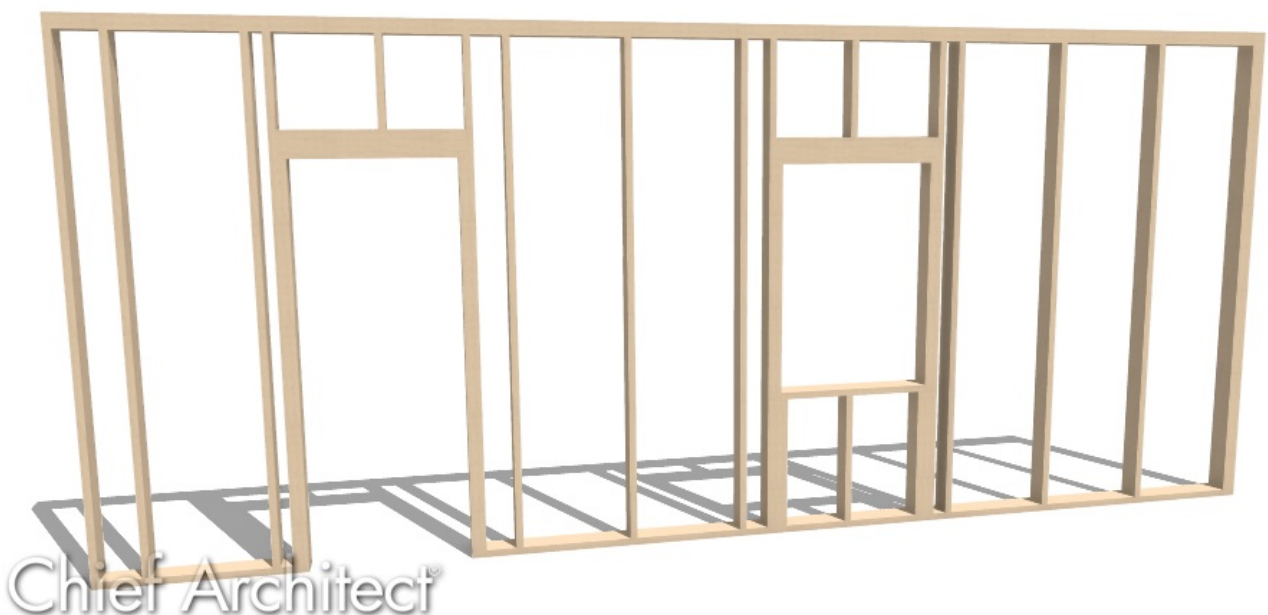
Last Modified: **February 10, 2022**

The information in this article applies to:



QUESTION

I have generated wall framing in my plan and would like to make some changes to it.
How is this accomplished?




ANSWER

You can select and edit most wall framing in any 2D or 3D view.

There are a number of steps in order to manually edit wall framing which includes the following steps:

- Verifying the wall type definition
- Creating wall framing
- Editing wall framing in plan view
- Editing framing member roles
- Editing the position of wall framing using Framing Reference Markers
- Editing wall framing in Wall Detail views

To verify the wall type definition

1. Select **Build> Wall> Define Wall Types** .
2. In the drop-down menu at top left of the **Wall Type Definitions** dialog, select a Wall Type used in the plan and verify that the Main Layer, which should typically have a framing material applied, has the **Framing** box checked under the Material Layer section. If it is not, adjust the wall accordingly. Repeat this process for each wall type in use.

In X12 and prior versions, this Material Layer section was not available. Instead, verify that the Main Layer has a framing material applied, such as Fir Stud 24" OC.

Wall Type Definitions

Siding-6 New Copy Rename Delete Delete All Unused

Wall Layers

Layer #	Line Color	Line Style	Weight	Material	Pattern	Texture	Fill	Thickness
Exterior Layers								
1			1	Lap Siding				1/2"
2			1	Housewrap				0"
3			1	OSB-Hrz				7/16"
Main Layers								
4			35	Fir Framing 2				5 1/2"
Interior Layers								
5			35	Drywall		No Texture		1/2"
6			1					

Insert Above
Insert Below
Move Up
Move Down
Delete
Total Thickness: 6 15/16"

Material Layer

☒ Framing

☐ Use Default Framing Material

Type: Lumber

Stud Spacing: 24" On Center

Stud Width: 1 1/2"

Top Plate Count: 2

Top Plate Width: 1 1/2"

Bottom Plate Count: 1

Bottom Plate Width: 1 1/2"

☐ Max Plate Length: 144"

☐ Horizontal Framing

Bottom Run Elevation: 0"

☐ Max Girt Length: 144"

☒ Auto Detail as Insulation

☐ Air Gap

Number Style...

Selected Wall Layer Line

Line Color: ☒ By Layer

Line Weight: ☒ By Layer 35

Line Style: ☒ By Layer Library...

Energy Values

Wall Type: Framed

Cavity R-Value: 21.0

Continuous R-Value: 0.0

Wall Settings

Brick Ledge Depth: 0"

Build Platform to Exterior of Layer: 4 - Fir Framing 2

Dimension to Exterior of Layer: 4 - Fir Framing 2

Foundation to Exterior of Layer: 4 - Fir Framing 2

Foundation Offset: 0"

☐ Partition Wall

OK Cancel Help

3. Make any other desired framing changes, such as to the **Type**, **Spacing**, **Width**, and **Plate*** fields, then click **OK**.

**Applies to X14 and newer program versions.*

To create wall framing

1. Select **Build> Framing> Build Framing** .
2. On the **WALL** panel of the **Build Framing** dialog that displays, check **Build Wall Framing**.

Build Framing [X]

Foundation
1st
Wall
Openings
Fireplaces
Beams
Posts
Roof
Trusses
Plan Display
Materials

☐ Automatically Build Wall Framing

Wall

☒ Build Wall Framing

Default Stud Thickness:

Default Stud Spacing: On Center

Stud Depth:

☒ Allow Automatic Balloon Framing

Wall Connections

Wall Corners:

☒ Standard Connections
☐ Reduced Stud Connections
☐ Laddered Connections

Wall Intersections:

☒ Standard Connections
☐ Reduced Stud Connections
☐ Laddered Connections

Plates

Top Plate Count:

Top Plate Thickness:

Bottom Plate Count:

Bottom Plate Thickness:

Blocking

☐ Exterior ☐ Interior

☐ In Line
☒ Stagger

Miter Ends of Angled Walls

☒ Miter Plate Ends
☒ Rotate End Studs
☐ Horizontal Frame Through

Wall Detail Views


☒ Build Wall Framing Details from Exterior

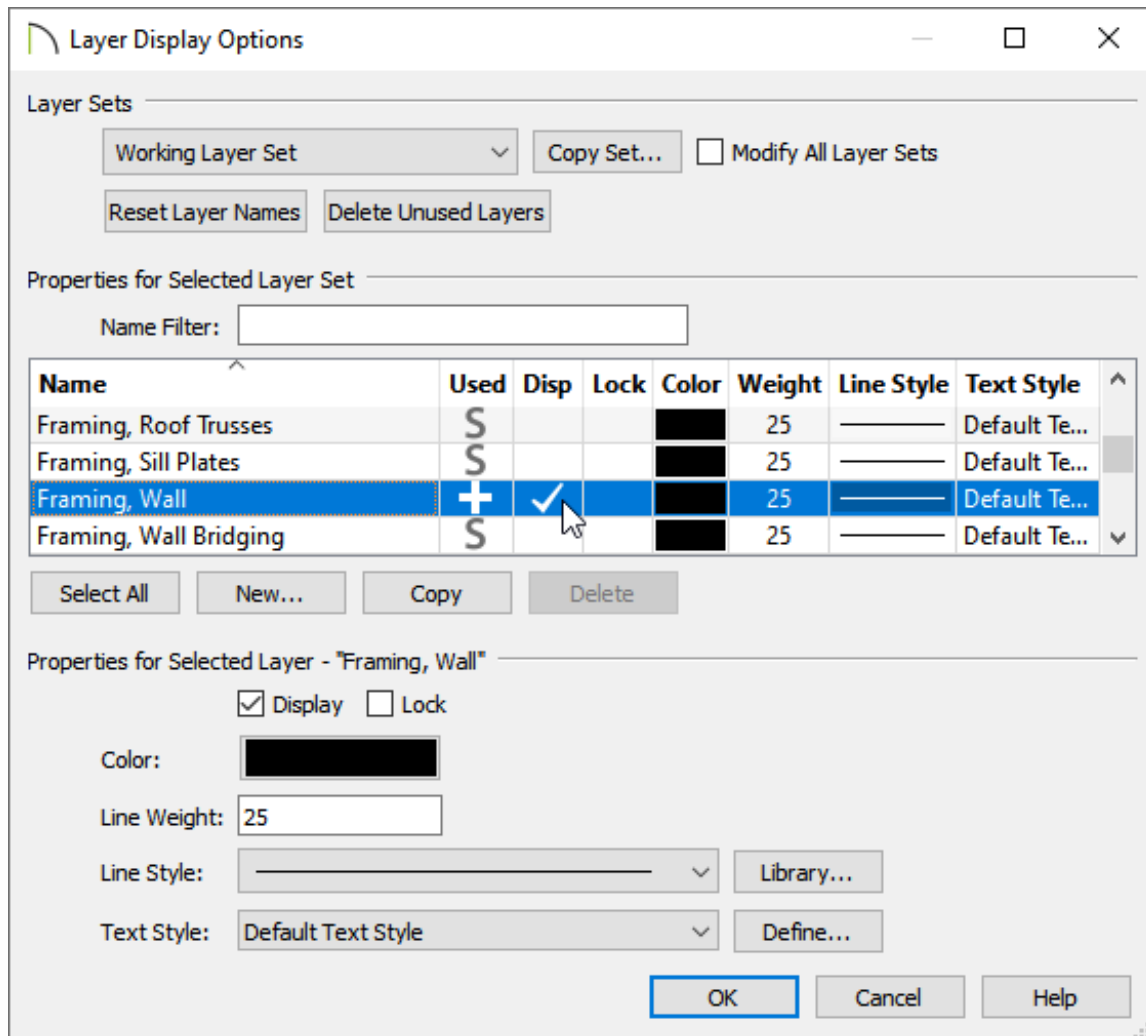
Default Fill Style:


3. Make any other desired changes on this panel including **Wall Corners***, **Wall Intersections***, **Plates**, and **Blocking**, then click **OK** to generate wall framing.

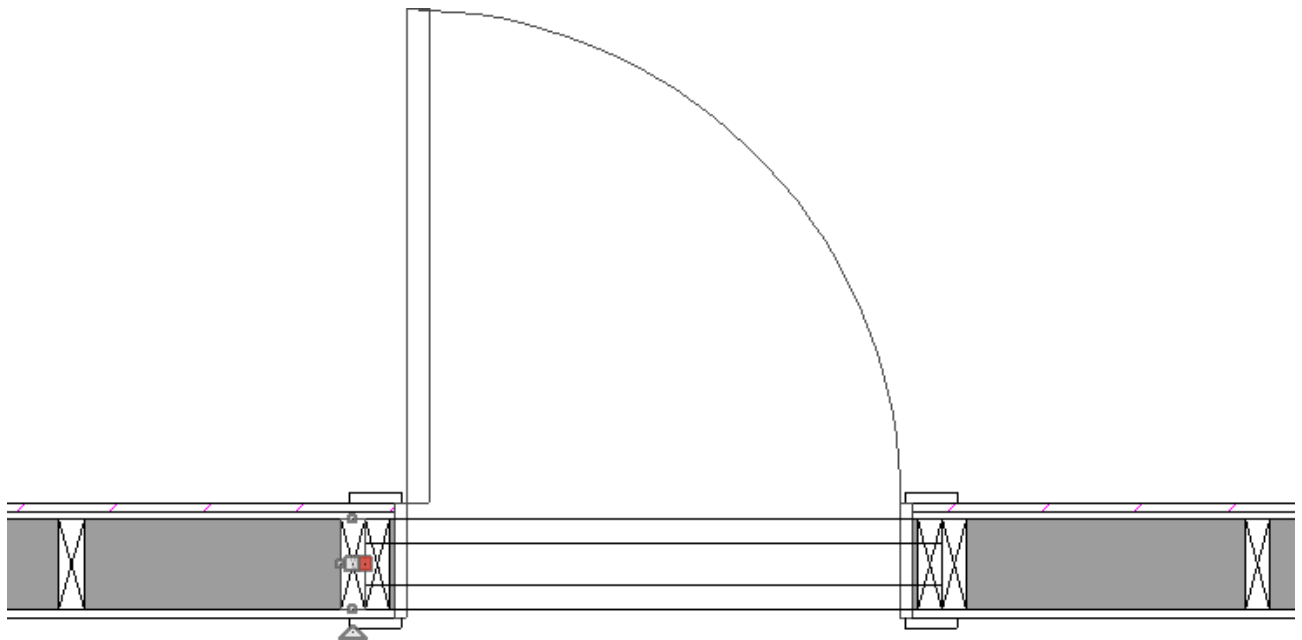
*Applies to X13 and newer program versions.

To edit wall framing in floor plan view

1. Select **Tools> Layer Settings> Display Options** .
2. Scroll down to the "Framing, Wall" layer and place a check in the **Disp** column or **Display** checkbox, as shown in the image below.



3. Perform the same procedure for the "Framing, Headers" layer, then click **OK** to display these layers in the current plan view.
4. In floor plan view, click the **Select Objects**  tool, then click on a wall stud or header to select it.





If the wall or opening is selected first when attempting to select a stud or header, click the Select Next Object edit button or press the Tab key on your keyboard as many times as needed until the framing component is selected.

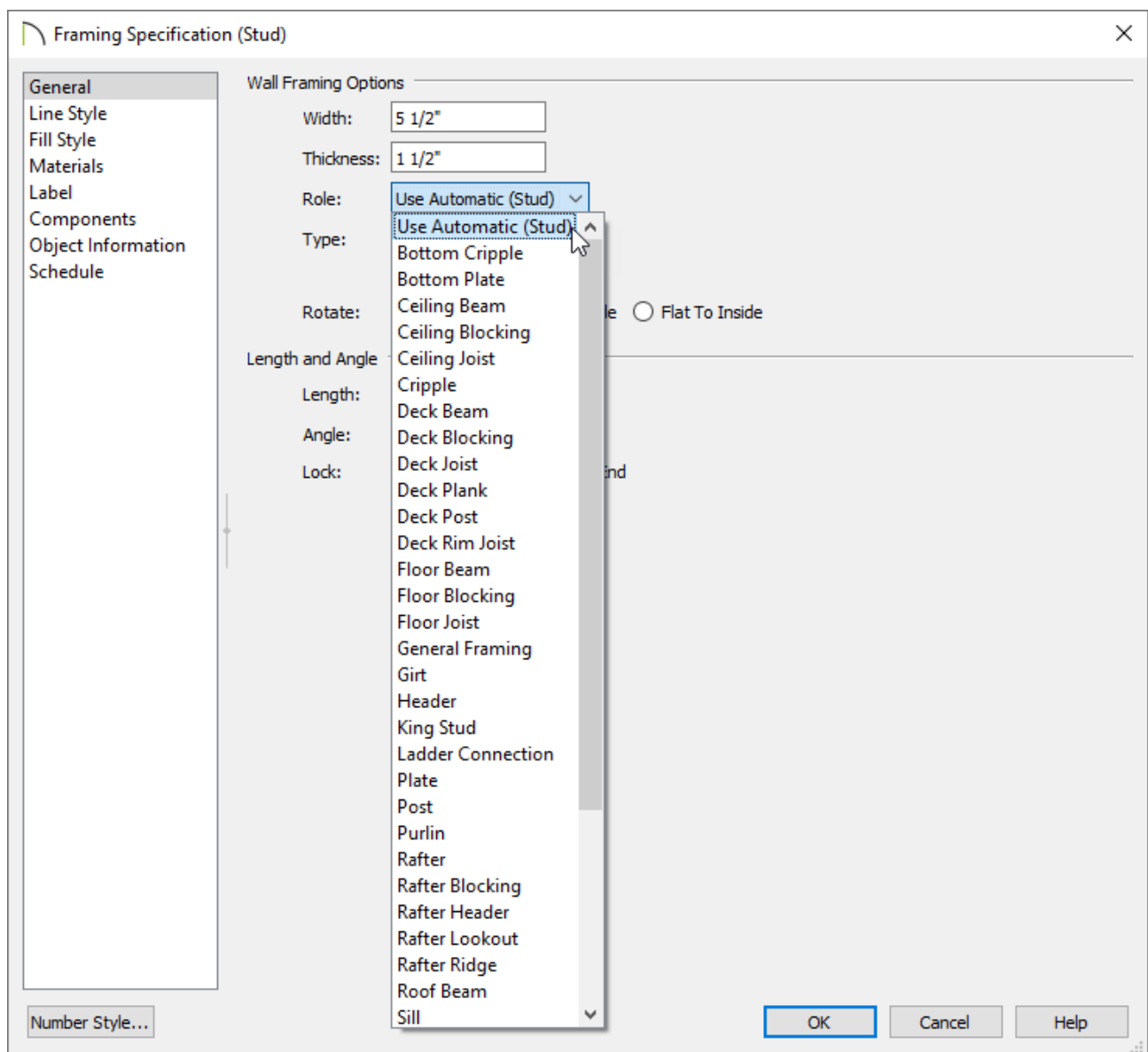
5. Once selected, the framing member can be edited either using its edit handles, edit toolbar buttons, or by opening its **Framing Specification** dialog.

To edit framing member roles*

**Available in X14 and newer program versions.*


Changing the role of a framing member can assist you when creating framing or custom schedules.

1. To control the member role of a framing member select it with the **Select Objects**  tool and then click on **Open Object** .
2. On the **General** panel of the **Framing Specification** dialog, change the **Role** to match your needs.



3. Click **OK** to confirm the change.

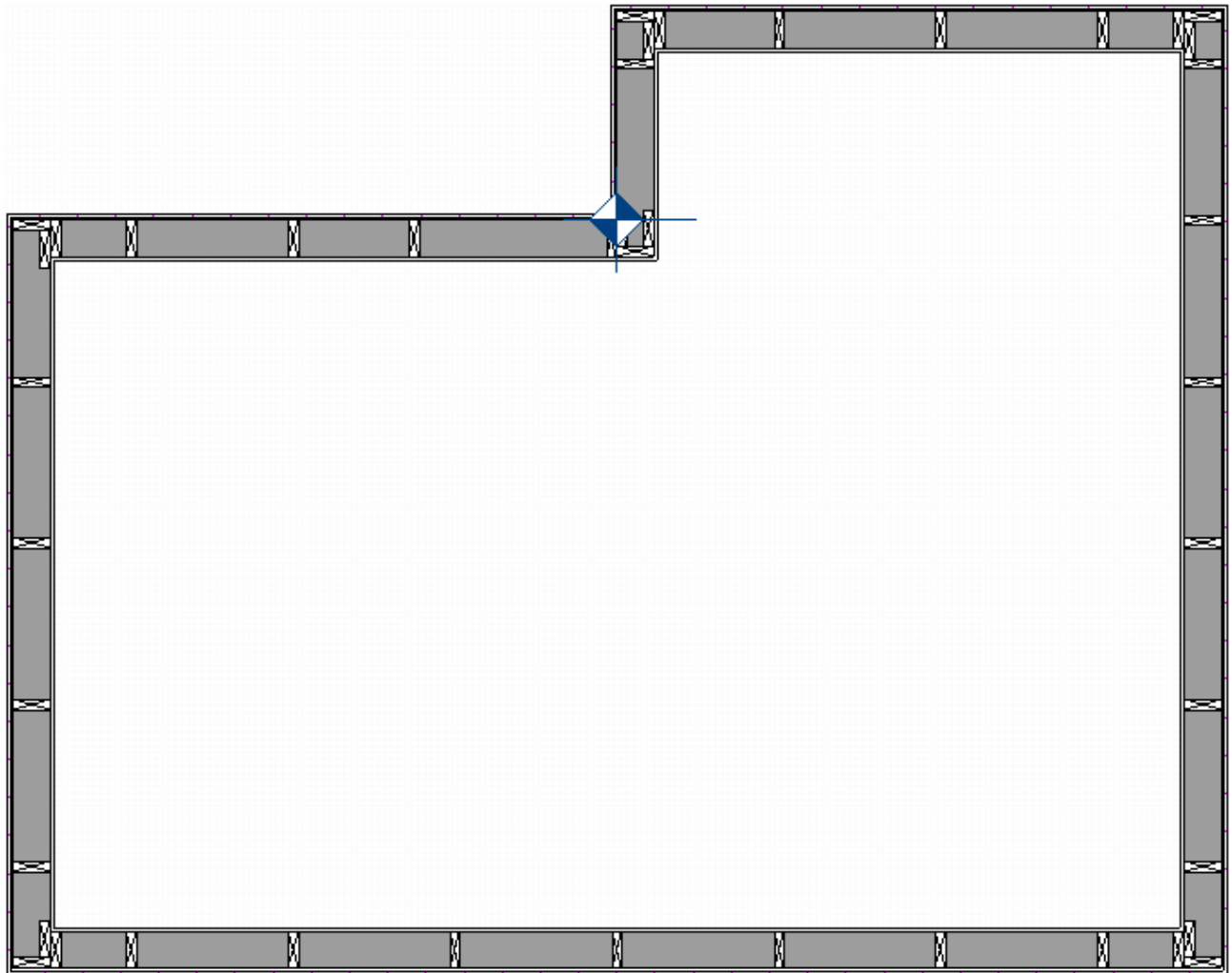
To edit the position of wall framing using Framing Reference Markers

1. In the floor plan view, go to **Build> Framing> Framing Reference Marker** .
 - Framing Reference Markers can be placed anywhere, but a typical location is the corner of two exterior walls, at the exterior of their framing layer.

In X14 and newer versions, Framing Reference Markers can be created for each level of your design to control where framing originates and choose which types of framing members reference the marker.

- Framing Reference Markers snap to framing members and other CAD-based objects first, and then to a wall Main Layer surface or corner if possible.
- Once placed, Framing Reference Markers can be modified just like other markers.

2. Click in the plan where you'd like the Framing Reference Marker to be placed.





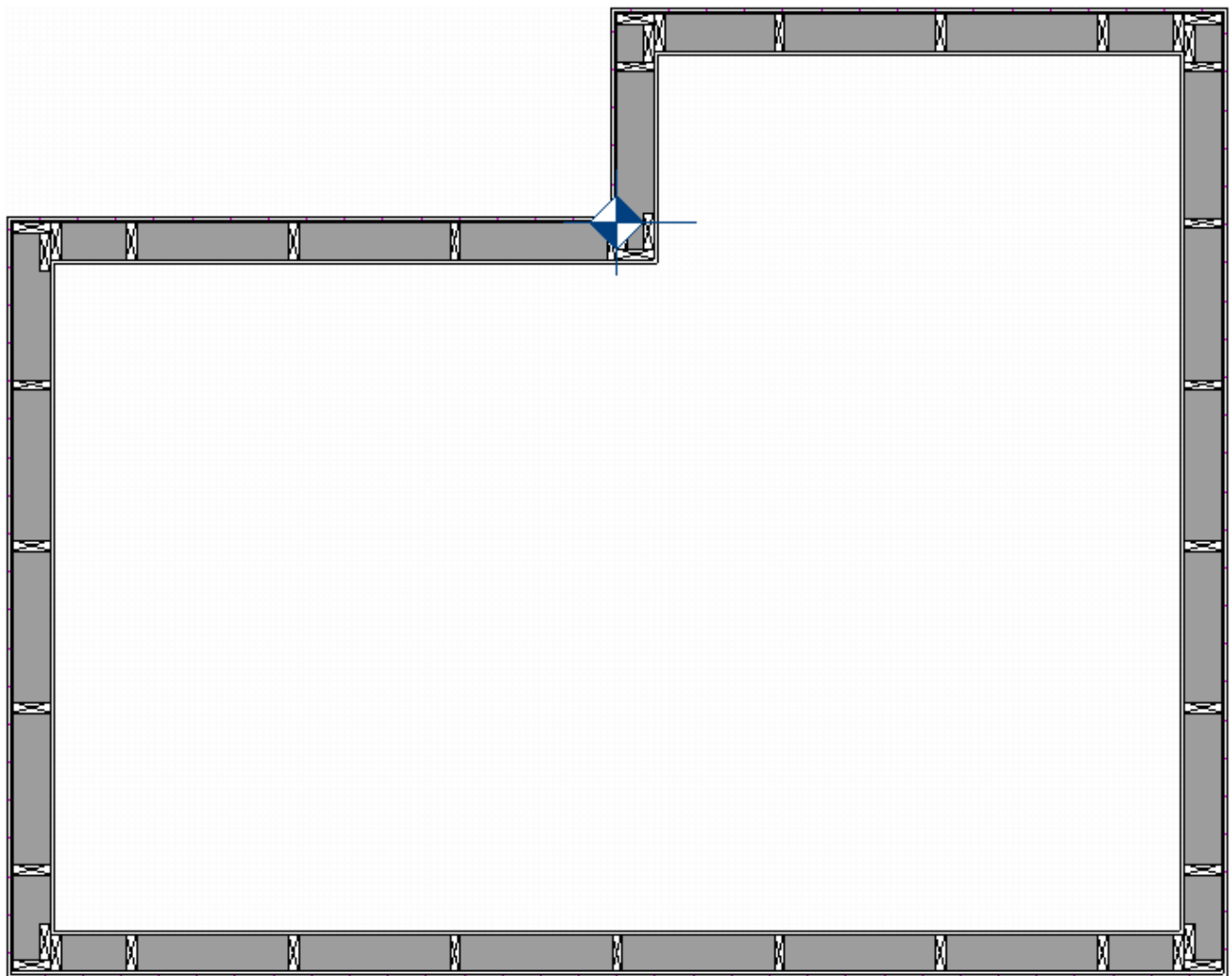
When framing is generated using a Framing Reference Marker, the first framing member of a given type snaps to this point and all other framing members are laid out from there.

- Wall and roof framing snap to the Framing Reference Marker at their centers.
- Floor and ceiling framing snaps to the Framing Reference Marker at their centers when it is set to Butt Over Support in the Build Framing dialog.
- Floor and ceiling framing snaps to the Framing Reference Marker along an edge when it is set to Lap over a supporting beam or wall. If Lap is selected, the

surfaces where the joists lap are placed at reference spacing, so that joists are placed on either side of the framing reference locations.

- In X14 and newer program versions, use Stud Rollout controls in the Wall Specification dialog to manage the framing start point for walls.



3. With **Select Objects** , select all the framing that needs to be moved to the Framing Reference Marker and then click on the **Move to Framing Ref.**  tool on the Edit toolbar.

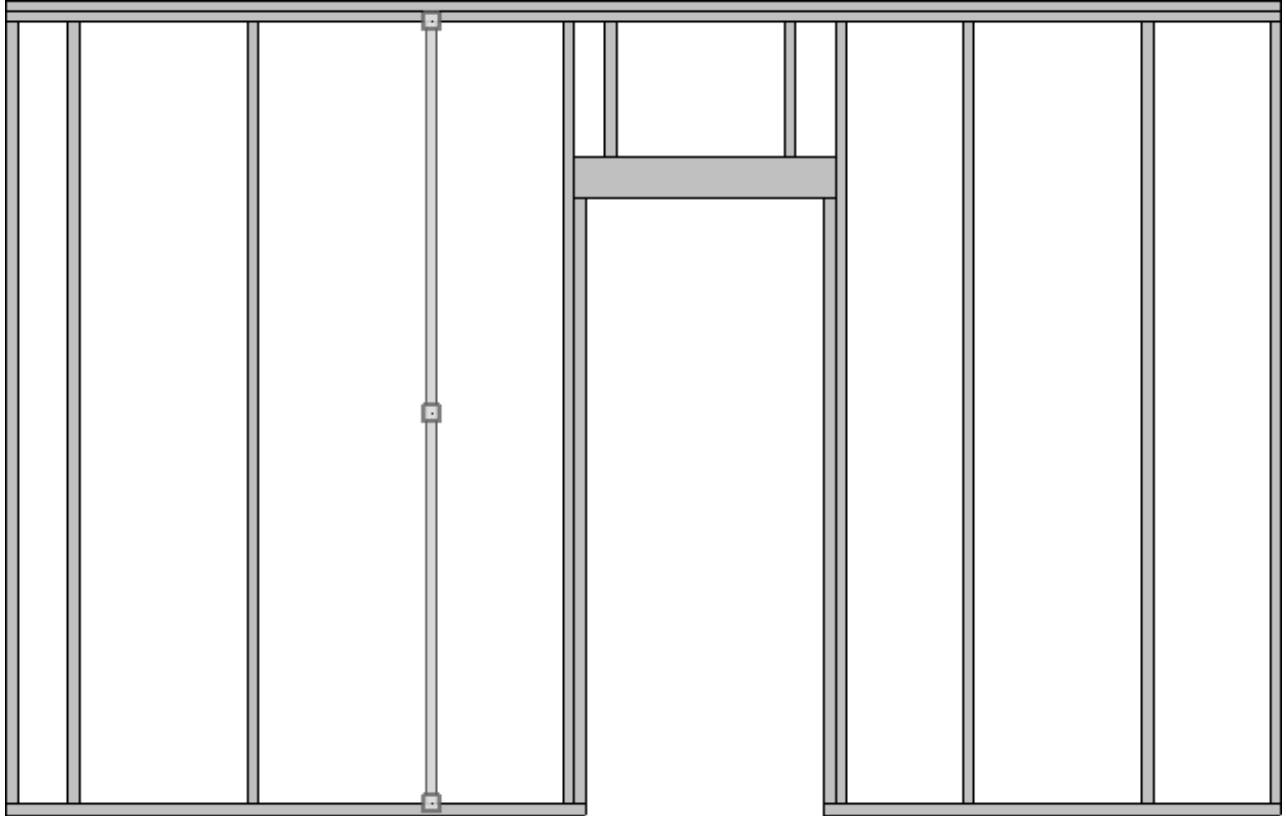


Framing members can also be edited in a Wall Detail or Cross Section view.

To edit wall framing in a Wall Detail view


1. Return to your 2D floor plan view, if you have not already.

2. Using the **Select Objects**  tool, click on a wall to select it.
3. With the wall selected, click the **Open Wall Detail**  edit button.



The Open Wall Detail edit tool will not be available unless you have previously generated wall framing using the Build Framing dialog.

Wall Details can also be accessed from the Project Browser.

4. A Wall Detail elevation view of the wall framing for that wall - and that wall only - will generate.
 - In this Wall Detail view, you can select and edit individual framing members such as studs, headers, trimmers and cripples using the edit handles, edit toolbar buttons, and specification dialogs.
 - New framing members can be added by selecting an existing framing member and clicking **Edit> Copy and Paste in Place** , after which you can move the

duplicated framing member as needed.

- If a wall has multiple framing layers, they will display in the same Wall Detail view, but in separate locations.

5. Once you are finished modifying the framing members, select **File> Close View** from the menu to close the Wall Detail view.

Note: If you rebuild wall framing after manually editing in a Wall Detail, your changes will be lost. To protect changes made to a wall's framing, check Retain Wall Framing in the Wall Specification dialog.

6. The framing changes you made will now be visible in floor plan view

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- 📄 [Displaying Framing in a Cross Section/Elevation View \(/support/article/KB-00017/displaying-framing-in-a-cross-section-elevation-view.html\)](/support/article/KB-00017/displaying-framing-in-a-cross-section-elevation-view.html)
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- 📄 [Troubleshooting Wall Framing Issues \(/support/article/KB-00335/troubleshooting-wall-framing-issues.html\)](/support/article/KB-00335/troubleshooting-wall-framing-issues.html)



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