# ARCHITECTURAL MODELING USING REVIT

LEVEL CREATION

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In addition to creating a level for each story in a building, you can also create reference levels, such as sill level.

1. Open the section or elevation view to add levels to.
2. On the ribbon, click ⁺✦ (Level).
   - Architecture tab ➤ Datum panel ➤ ⁺✦ (Level)
   - Structure tab ➤ Datum panel ➤ ⁺✦ (Level)
3. Place the cursor in the drawing area and click.
   Note: As you place the cursor to create a level, if the cursor aligns to an existing level line, a temporary vertical dimension displays between the cursor and that level line.
4. Draw level lines by moving the cursor horizontally.
   On the Options Bar, Make Plan View is selected by default. As a result, each level you create is a story level and has an associated floor plan view and a reflected ceiling plan view. If you click Plan View Types on the Options Bar, you can choose to create only the view types that you specify in the Plan View Types dialog. If you clear Make Plan View, the level is considered to be a non-story level or a reference level; no associated plan view is created. Walls and other level-based elements can use reference levels as their top or base constraint.
   As you draw level lines, the heads and tails of the lines can align to one another. When you select a level line that is aligned with others, a lock appears to show the alignment. If you move the level line horizontally, all aligned level lines move with it.
5. Click when the level line is the correct length.
   You can change the name of the level by clicking the number to select it. You can also change the height of the level by clicking the dimension.

Revit assigns the label (for example, Level 1) and the level symbol to the new level. Use the Project Browser to rename the level, if desired. If you rename the level, you are asked if you would like to re-name corresponding plan views as well.

Copy Elements to the Clipboard

The Copy to Clipboard tool copies one or more elements to the clipboard. You can then use the Paste from Clipboard or Paste Aligned tools to paste copies of the elements in the drawing or in another project.

The Copy to Clipboard tool is different from the Copy tool. Use the Copy tool when you want to copy a selected element and place it immediately (for example, in the same view). Use the Copy to Clipboard tool, for example, when you need to switch views before placing the copies.

1. Select one or more elements in the drawing area.
2. Click Modify | <Element> tab ➤ Clipboard panel ➤ ▢ (Copy).
3. Note: When editing text notes, click Modify | Text Notes ➤ Clipboard panel ➤ ▢ (Copy).
   Paste the elements using either of the following tools:
   - Paste from Clipboard: To copy the elements to another area of the drawing, or to another project. See Paste Elements from the Clipboard.
   - Paste Aligned: To copy the elements to another level exactly above or below the original location of the elements. See Paste Aligned Elements.
     You cannot copy
   - An interior elevation arrow without copying its adjoined elevation symbol
     - Some combination of elements
       For example, you cannot copy curtain panels and mullions without copying the entire curtain system.
   - Certain elements in any context (for example, you cannot copy the reference level in the Family Editor)

Paste Elements from the Clipboard

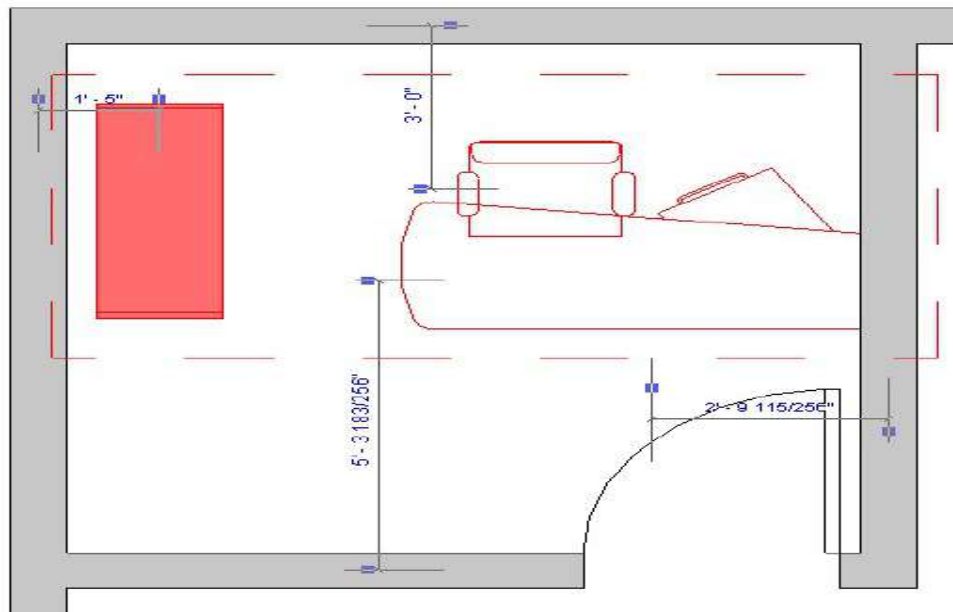Paste elements from the clipboard into the current view.
1. Cut or copy elements to the clipboard.
2. Place the cursor in the view where you want to paste the elements.
3. Click Modify tab ➤ Clipboard panel ➤ Paste drop-down ➤ ▢ (Paste from Clipboard).
   Note: When editing text notes, click Modify | Text Notes ➤ Clipboard panel ➤ ▢ (Paste from Clipboard).
   In Paste mode, a preview image of the elements displays in the drawing area, similar to the following. Temporary dimensions and witness lines display to help position the elements.
   Note: You can also use the keyboard shortcut Ctrl+V to paste elements.

Example

4. Click to place the preview image in the desired location. The pasted elements appear in the drawing area. They are selected so that you can adjust them if needed.

5. Refine placement of the pasted elements, if desired. While the elements are selected, you can modify them as desired. Depending on the type of elements being pasted, you may be able to use the Move, Rotate, and Mirror tools. You can also use tools on the Modify | <Element> tab. The available options depend on the pasted elements. For example, for building components (such as windows), you can use the Pick Host or Edit Family tools. For other types of elements, you can use the Activate Dimensions (on the Options Bar) or Edit Pasted Elements tools.

6. To finish the paste operation, click in the drawing area away from the pasted elements to deselect them. (For some types of elements, click Modify | <Elements> tab ➤ Tools panel ➤ ✔ (Finish).)

If you want to quit Paste mode, discarding the pasted elements, click ✖ (Cancel) on the Modify | <Elements> tab.

26.4 Paste Aligned Elements:

After copying elements to the clipboard, pick one of the Paste Aligned tools to paste the elements aligned as specified.

1. Cut or copy elements to the clipboard.
2. Click Modify tab ➤ Clipboard panel ➤ Paste drop-down, and select one of the following options:

- Aligned to Selected Levels: If you copy all model elements, you can paste them into one or more levels. In the dialog that displays, choose the levels by name. To select more than one, press Ctrl while selecting the names.
- Aligned to Selected Views: If you copy view-specific elements (such as dimensions) or model and view-specific elements, you can paste them into similar types of views.
- Aligned to Current View: Pastes the elements to the current view. For example, you can paste elements from a plan view to a callout view. The view must be different from the view where the elements were cut or copied.
- Aligned to Same Place: Pastes the elements into the same place from where you cut or   copied   them.
  This option is useful for pasting elements between worksets or design options. Also, you can use it to paste between 2 files that have shared coordinates.
- Aligned to Picked Level: Pastes the elements in an elevation view. You must be in an elevation view to use this tool, because it requires that you select a level line on which   to   paste   the   elements.
  Note: Do not pick levels using the Project Browser.