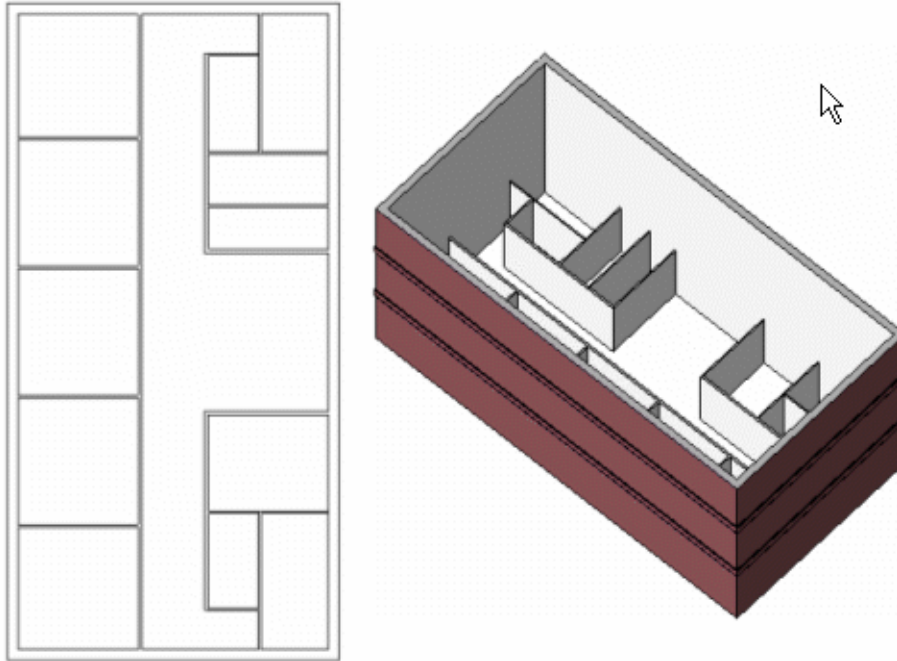


## **2 - Adding the Interior Walls of the West Wing**

In this exercise, you add the interior walls of the west wing. When finished, the interior walls resemble the following illustration.



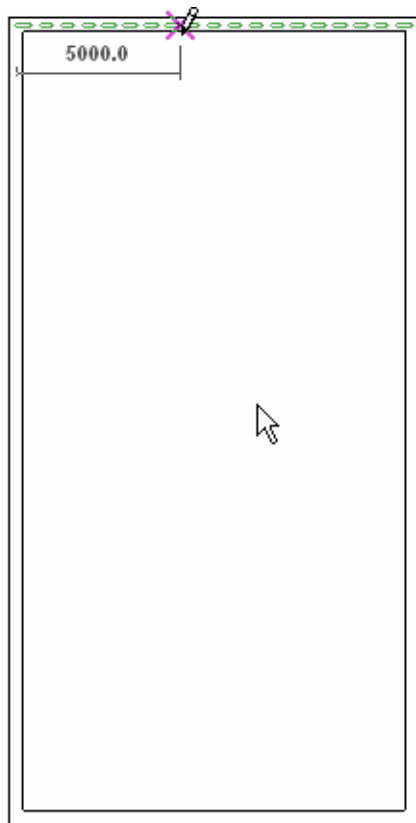
This exercise requires the completion of the previous exercise. You must use the project you saved at the end of that exercise.

### **Sketch the main corridor**

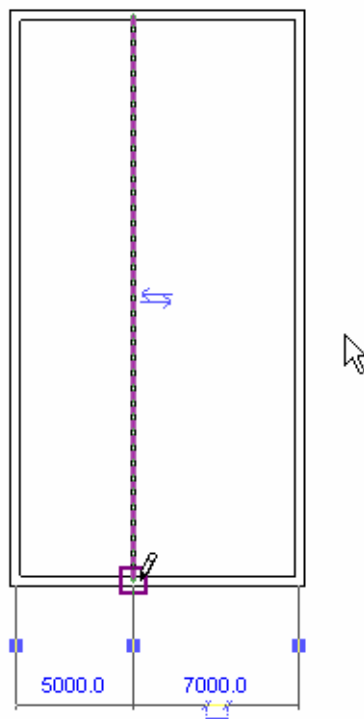
1. In the Project Browser, under Views (all), under Floor Plans, double-click Level 1.
2. On the Basics tab of the Design Bar, click Wall.
3. In the Type Selector, select Basic Wall: Interior - 135mm Partition (2-hr).
4. In the Options Bar, specify the following options:
  - Verify that Level 2 is selected for Height.
  - Verify that Wall Centreline is selected for Loc Line.
  - Select the Lines sketching tool. 

Placing a wall requires two mouse clicks: the first specifies the wall start point and the second specifies the wall end point.

5. Using the following illustration as a guide, place the cursor over the north wall, 5000 mm from the centreline of the west exterior wall, and click.



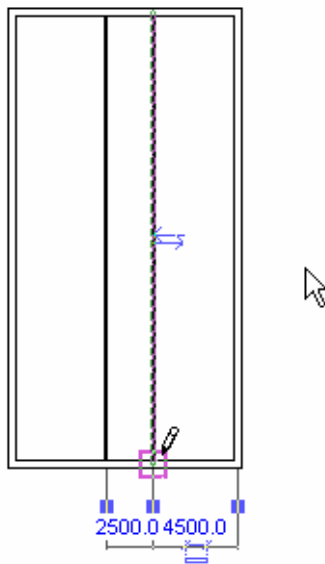
6. Move the cursor down, and click when it intersects the centreline of the south exterior wall.



7. Move the cursor over the north exterior wall and 2500 mm to the right of the wall you added in the previous step. Click to specify the wall start point.

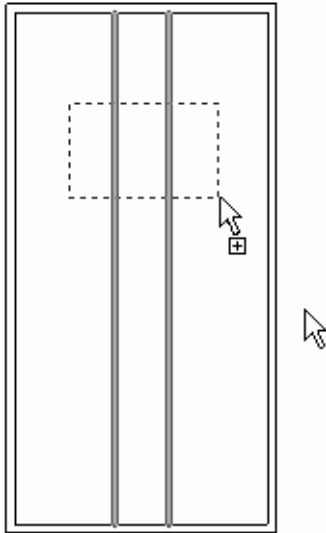
**Tip:** The temporary dimension snap values are dependent on your zoom settings. If you zoom into the model, the snap values decrease.

8. Move the cursor down, and click when it intersects the centreline of the south exterior wall.



9. On the Basics tab of the Design Bar, click Modify.

10. Select both interior walls using one of the following three methods:
- Select one of the interior walls, press and hold *Ctrl*, and select the second interior wall.
  - Draw a box from the lower-right to the upper-left that crosses both interior walls.



- Draw a box from the upper-left to the lower-right that includes both interior walls in their entirety.

Once the walls are selected, they are displayed in red. Notice that temporary dimensions do not display when multiple components are selected.

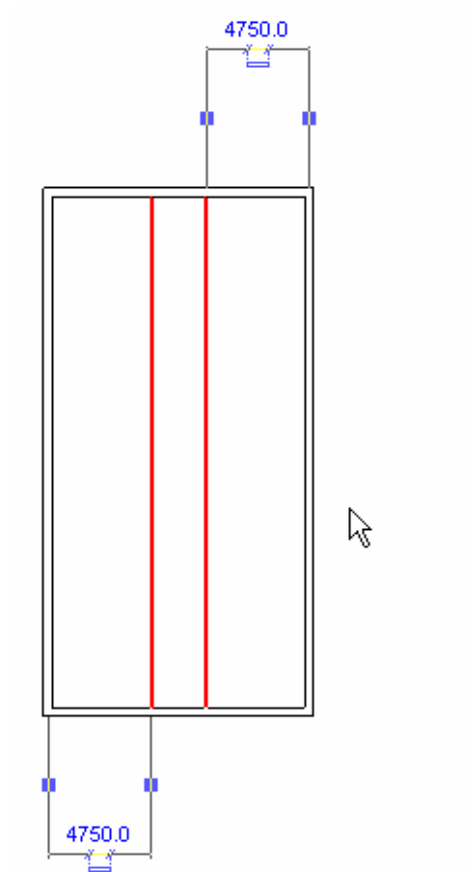
**Tip:** You can change the selection colour by modifying the system settings. On the Settings menu, select Options, click the General tab, and under Graphics, specify the selection colour.

11. On the Options Bar, click Activate Dimensions.

The temporary dimensions are displayed for both walls. This allows you to analyze their location in relationship to each other and modify the location of both walls at the same time.

12. Using the following illustration as a guide, click a temporary dimension value, and enter 4750 mm.

This places both interior walls 4750 mm from the centreline of the closest exterior wall.



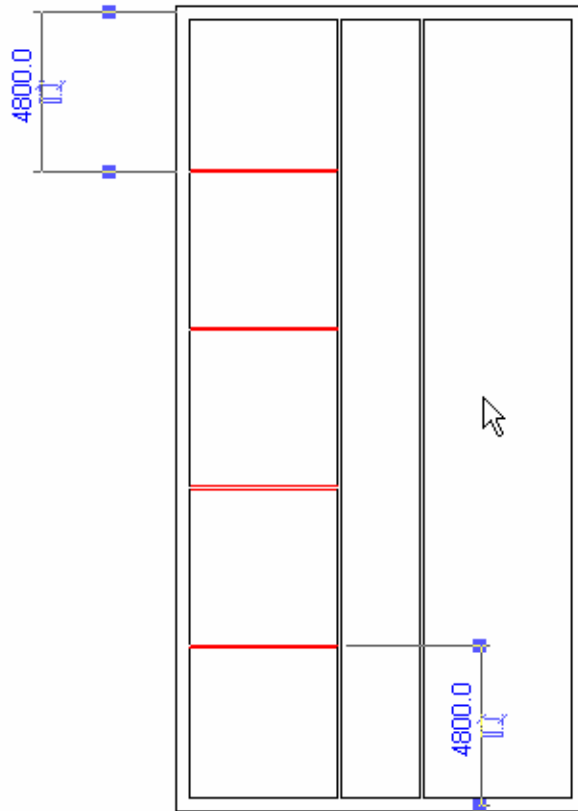
13. On the Basics tab of the Design Bar, click Modify.

**Add remaining interior walls**

14. On the Basics tab of the Design Bar, click Wall.

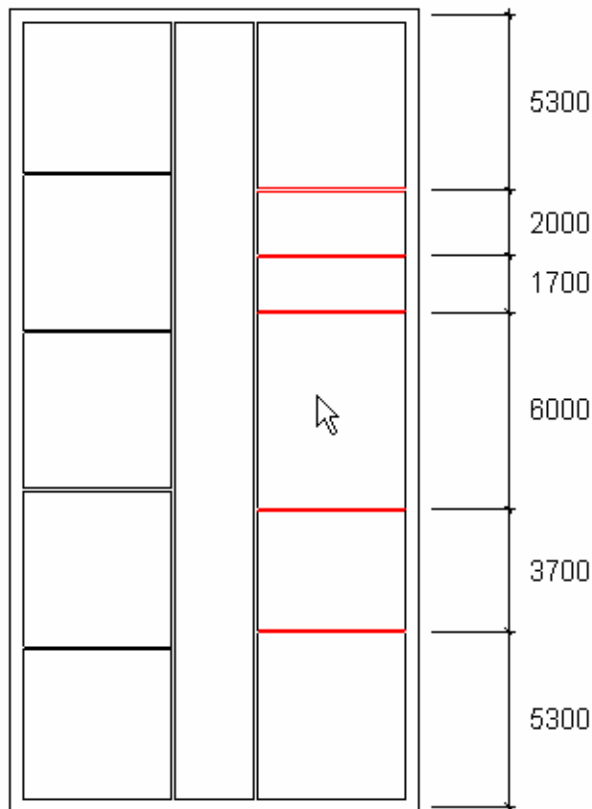
15. In the Type Selector, select Basic Wall: Interior - 79mm Partition (1-hr).

16. Add four horizontal interior walls stretching from the centreline of the left exterior wall to the centreline of the left wall of the corridor. Each wall should be 4800 mm from the previous wall, as shown.



17. Add five horizontal interior walls stretching from the centreline of the right wall of the corridor to the centreline of the right exterior wall. Use the dimensions shown in the following illustration when adding the walls.

The dimension lines have been provided for training purposes. If necessary, modify temporary dimension values to obtain exact placement.



18. Add the final four interior walls in each corner of the right side of the building model, as shown.

Dimension lines have been added for training purposes.

**Use split tool to modify walls**

19. On the Basics tab of the Design Bar, click Modify.

20. Enter **ZR**, which is the keyboard shortcut for Zoom in Region, and sketch a zoom region around the upper right corner. of the building model.

21. On the Tools toolbar, click. 

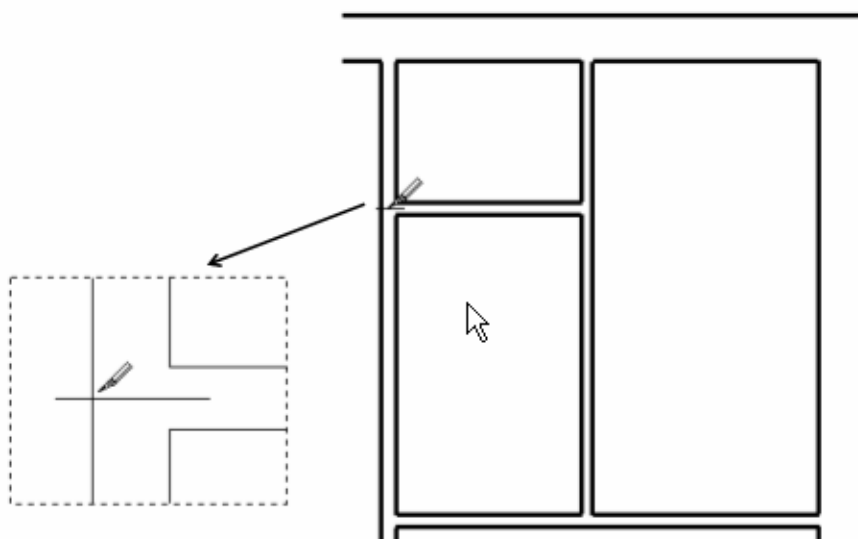
The cursor displays as a cutting tool, and you can now split walls and lines.

**Note:** If the Tools toolbar is not available, you can activate it by opening the Windows menu and clicking Toolbar - Tools.

22. In the drawing area, place the cursor over the intersection of the right wall of the corridor and the short horizontal wall that intersects it.

As you move the cursor over the wall, a thin line appears at the tip of the cursor. This line represents where the underlying object is to be split. In the following illustration and callout, notice the exact placement of the cursor and the location of the proposed wall split.

23. Click to split the wall.

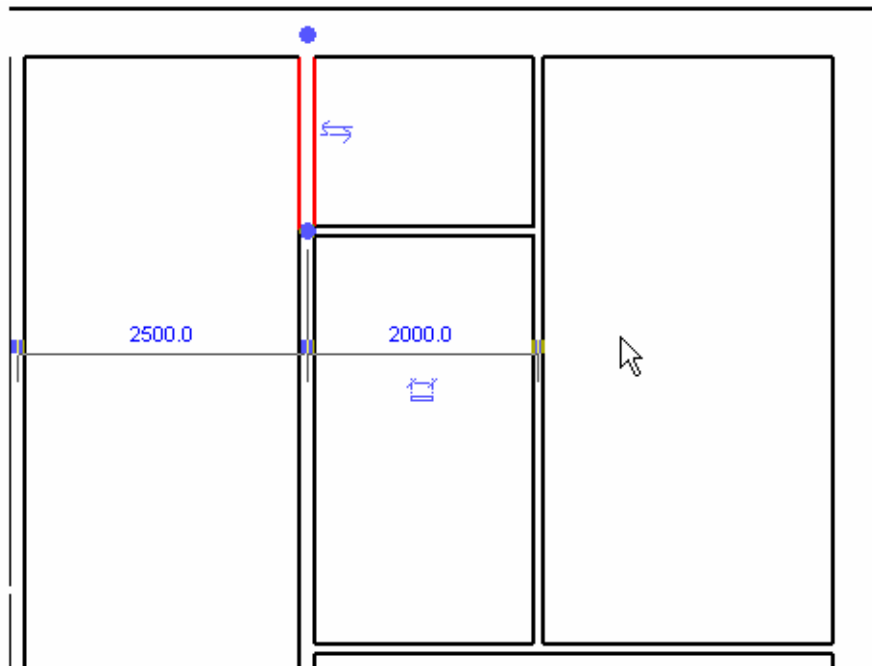


**Tip:** If the lines appear too thick within the floor plank, you can  click on the View toolbar. This places the view in thin lines mode. When you are finished splitting the walls, click the tool a second time to turn thin lines mode off.

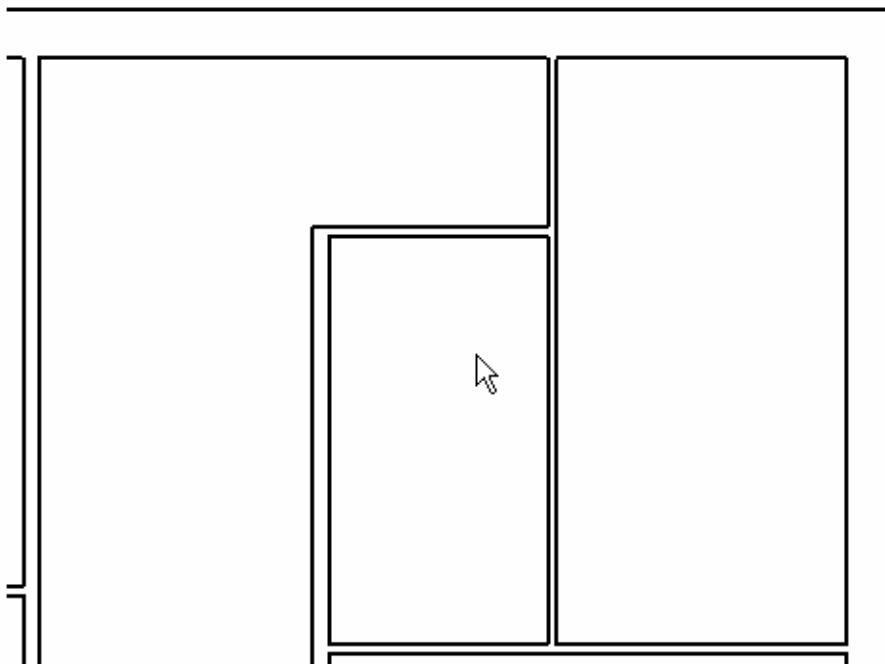
After splitting the wall, there is no immediate and obvious indication of the split location.

24. On the Basics tab of the Design Bar, click Modify.

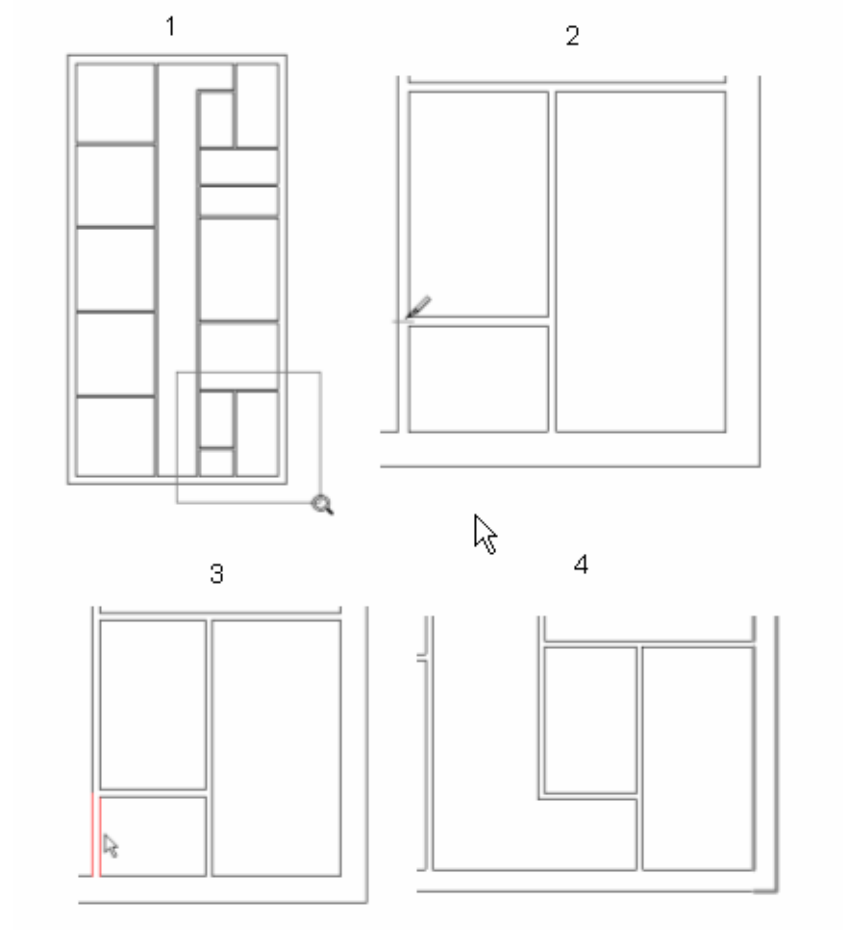
25. Select the short wall segment that you split from the right wall of the corridor.



26. On the Standard toolbar, click. 

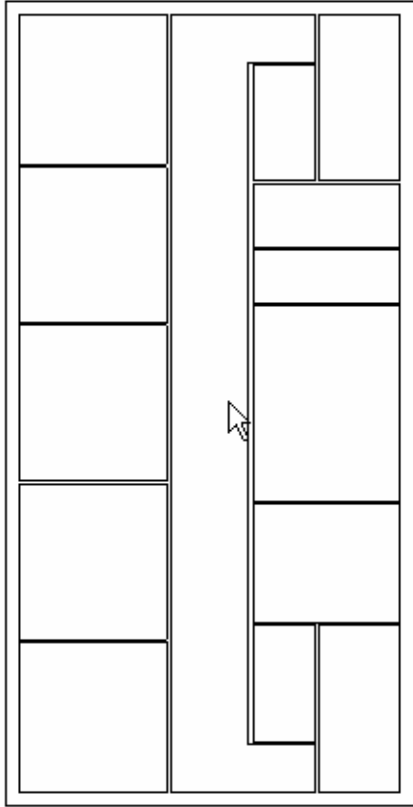


27. Using the same techniques learned in previous steps, zoom in to the bottom right corner of the building model, split the right corridor wall, and delete the segment.



28. On the Basics tab of the Design Bar, click Modify.

29. Enter **ZF**, which is the keyboard shortcut for Zoom To Fit.



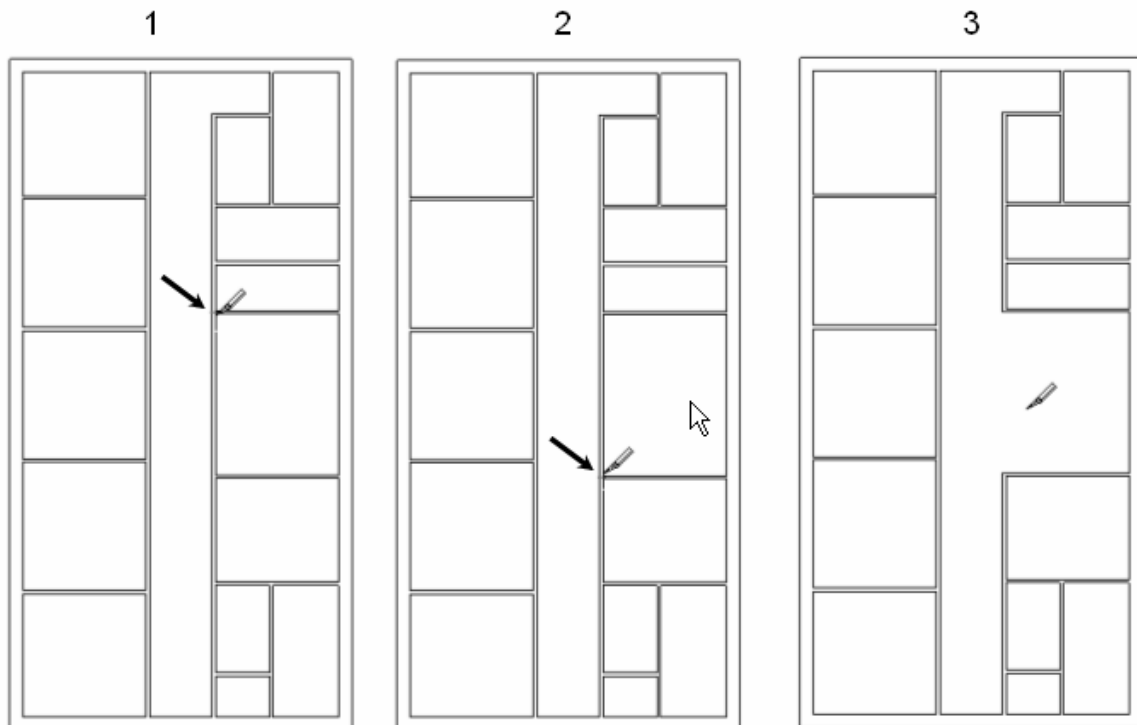
There are two remaining splits to create.

30. On the Tools toolbar, click. 

31. On the Options Bar, select Delete Inner Segment.

32. Using the following illustration as a guide, split the right wall of the corridor at the intersection of the two centre horizontal interior walls.

Arrows have been added at the location of the two splits.



After the second split, the inner segment is deleted automatically.

33. Press ESC to end the Split command.

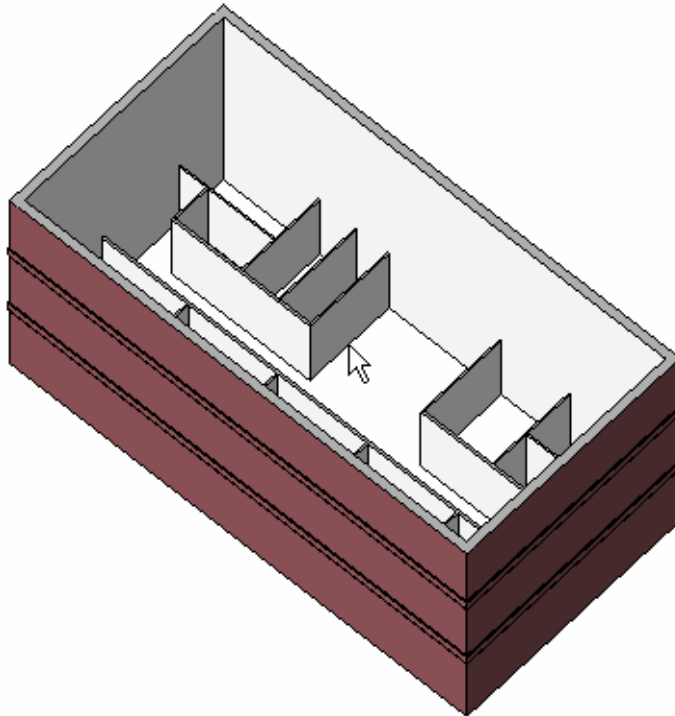
34. On the View toolbar, click. 

35. On the View toolbar, click. 

This tool allow you to spin the model in any direction.

36. Press and hold SHIFT and spin the building model by dragging one of the corners in any direction.

Notice the interior walls that you added.



37. On the File menu, click Save.

You have completed the interior walls of the west wing. After you add the floors later in this tutorial, you use the Paste Aligned tool to duplicate these walls on the remaining floors. In the next exercise, you add dimensions to the building model.