AUTODESK® REVIT® the basics

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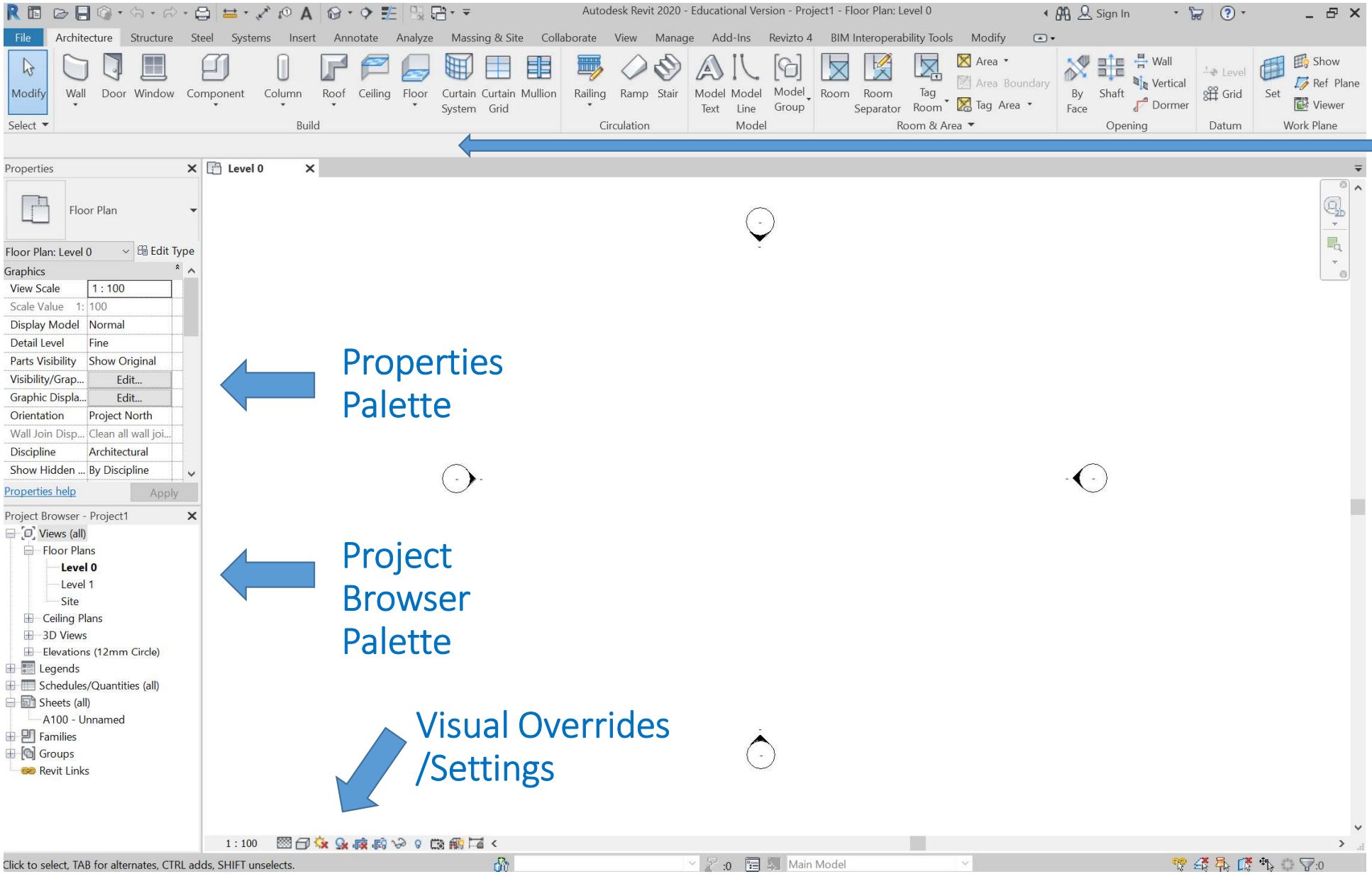
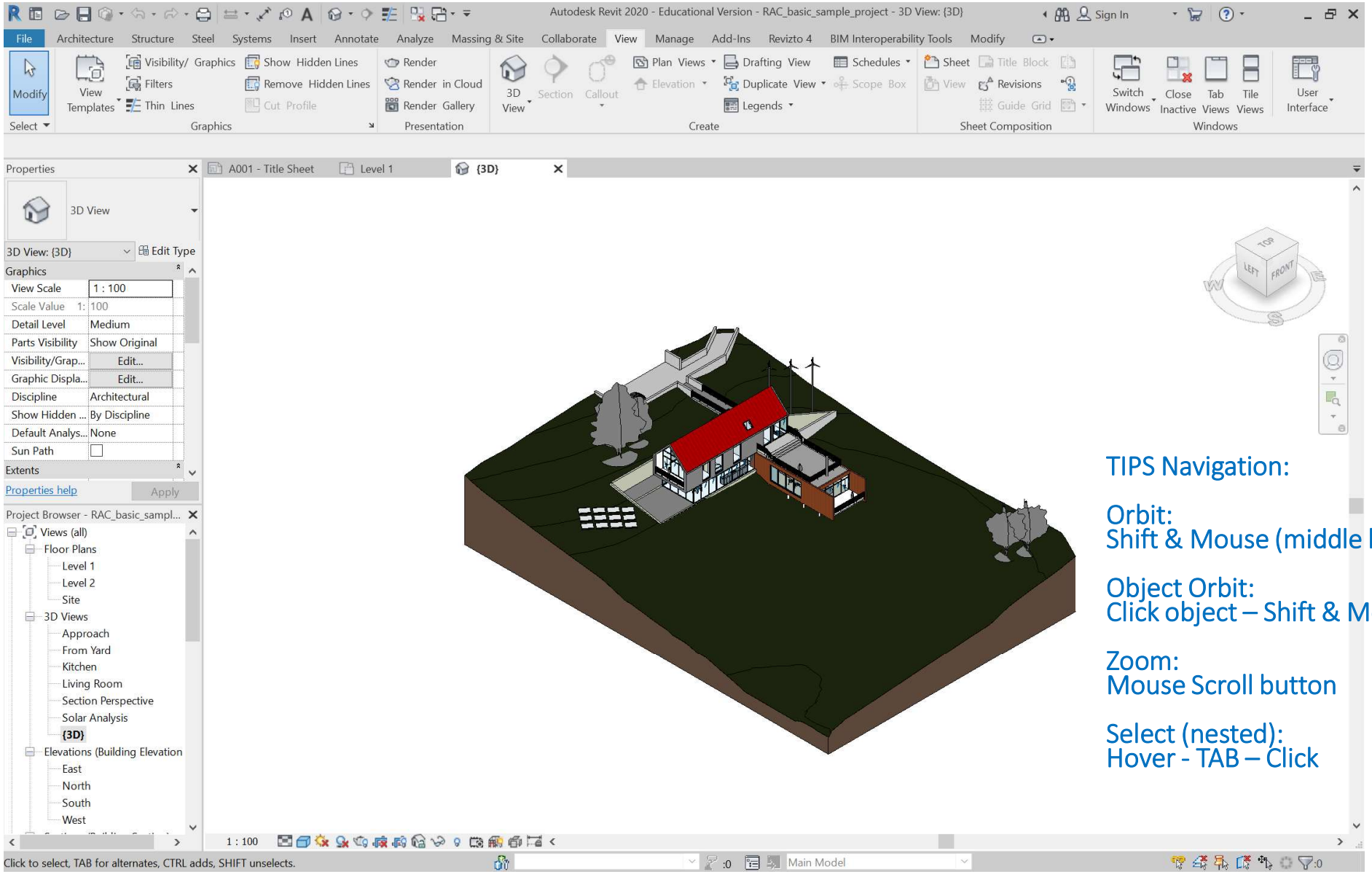
https://revitpure.com/basics
https://academy.autodesk.com/



RIBBON

Sub options

AUTODESK® REVIT®



1-INTERFACE

2-SELECT

3-MODIFY

TIPS Navigation:

Orbit:
Shift & Mouse (middle button)

Object Orbit:
Click object – Shift & Mouse (middle button)

Zoom:
Mouse Scroll button

Select (nested):
Hover - TAB – Click

AUTODESK® REVIT®

Set up Levels

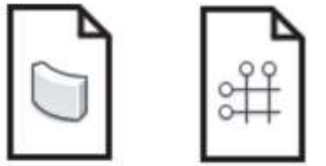
Exercise 1

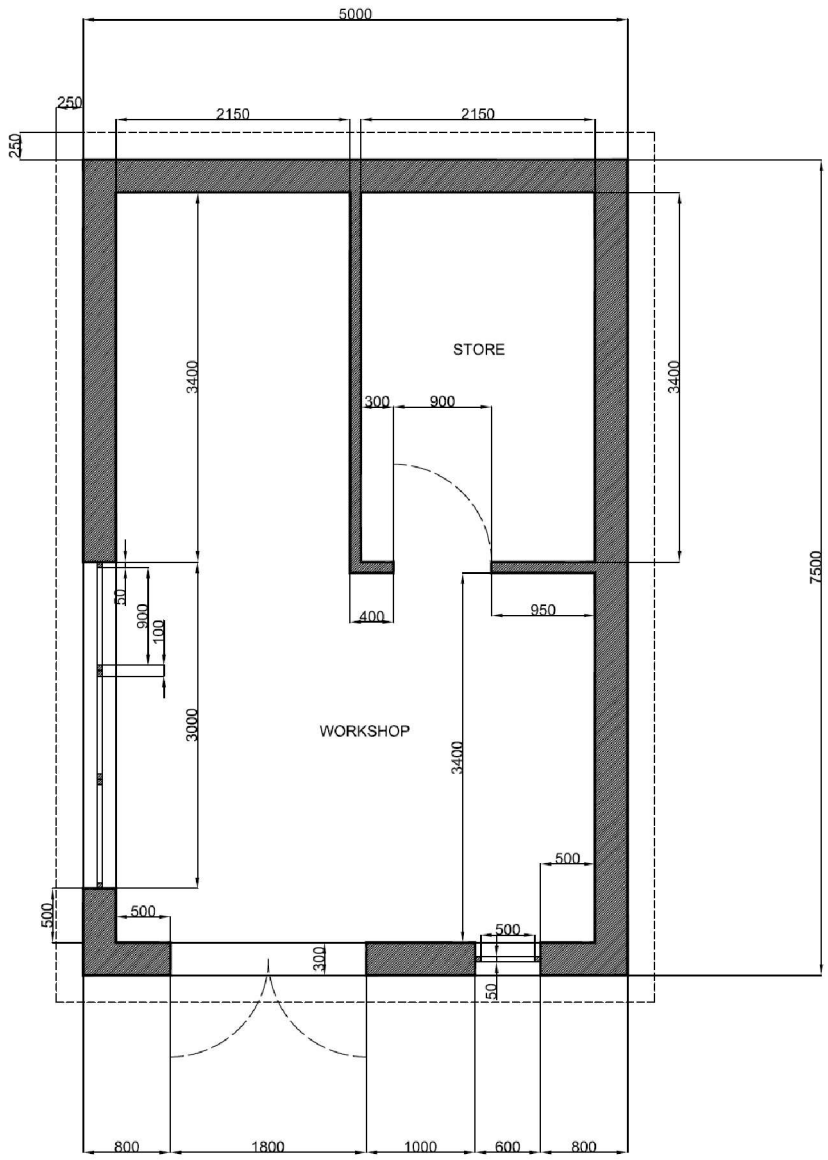
It's the Workshop again only this time in REVIT.
Set up your levels in Elevation view.
Distance between levels of 2500mm

EASY?

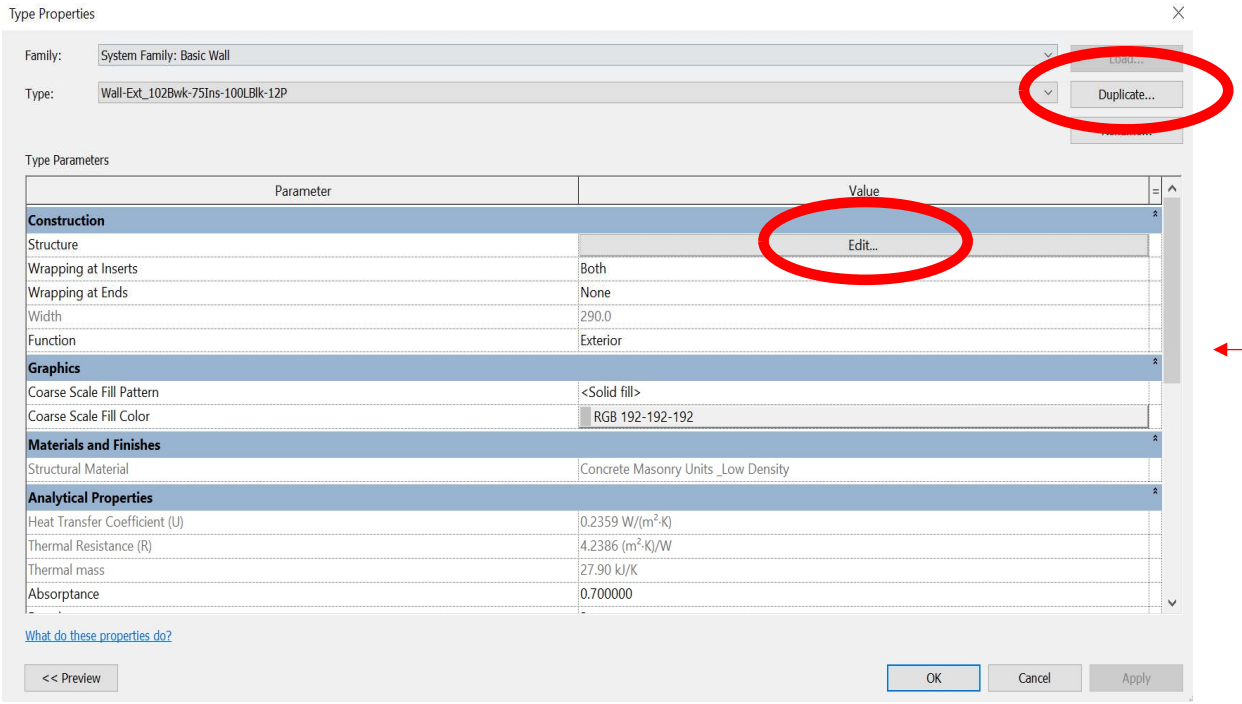
Assume the following:

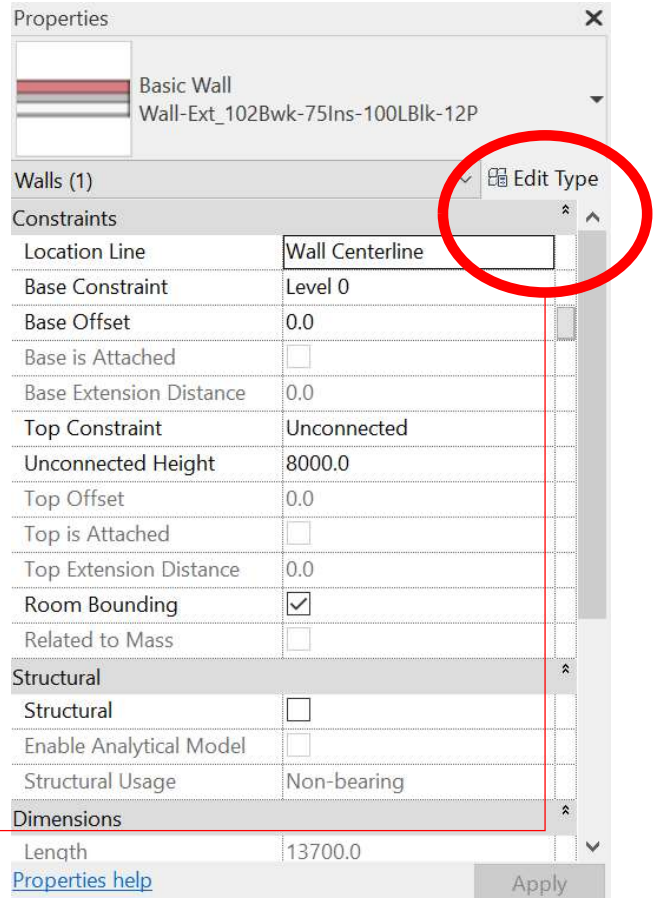
- High to Apex of roof is 5m
- Floor to ceiling height is 2.5m
- Floor slab is 300mm,
- Roof is 300mm thick
- Cill heights are 900mm
- Add Grid Lines



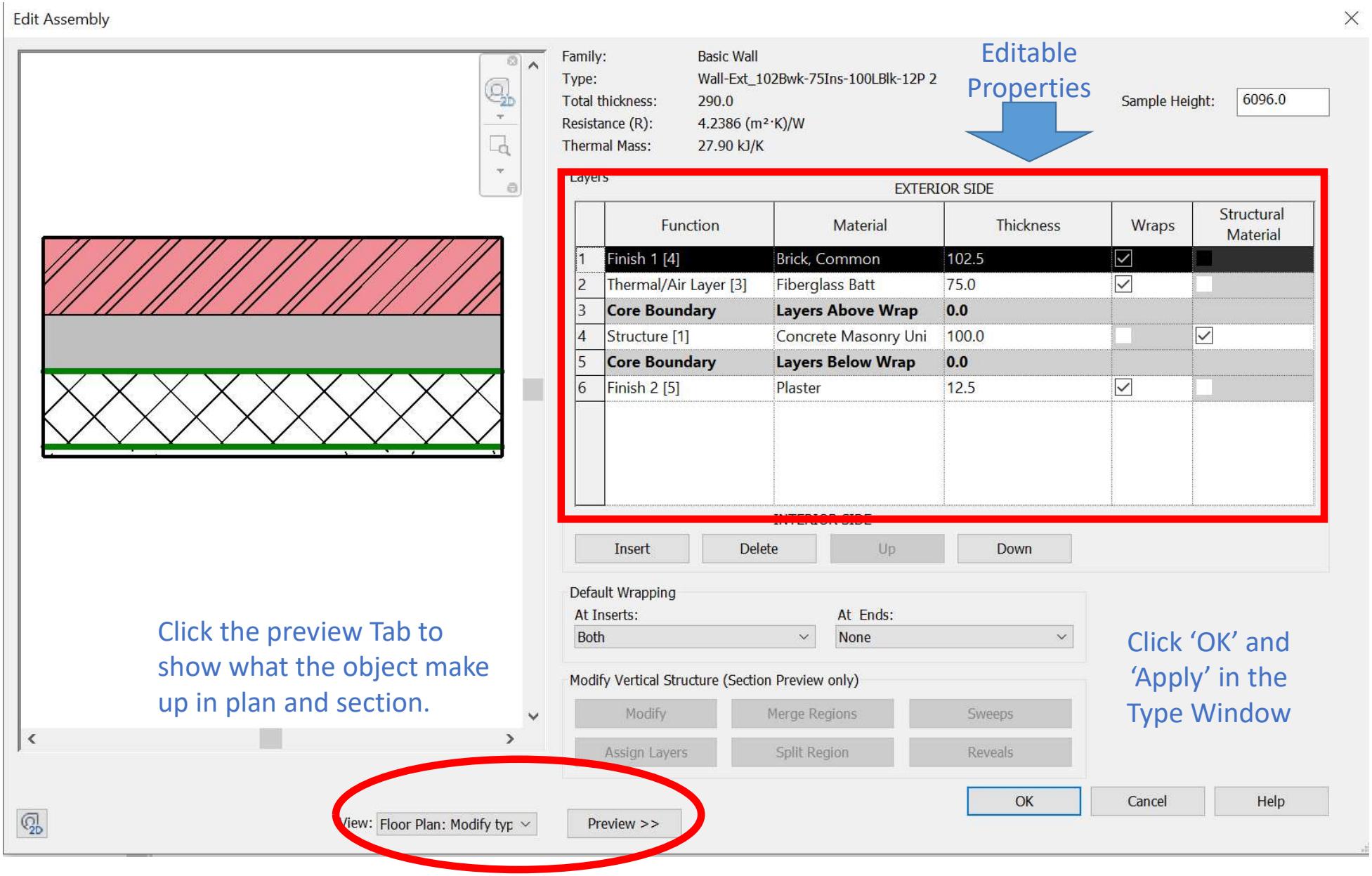


Creating /Editing





It is the same process for all fabric objects.
Select an object you want to edit.
In the properties click 'Edit Type'
In the 'Type Properties' Window click 'Duplicate'
Click Edit.. tab


Edit Assembly
Family: Basic Wall
Type: Wall-Ext_102Bwk-75Ins-100LBlk-12P 2
Total thickness: 290.0
Resistance (R): 4.2386 (m²·K)/W
Thermal Mass: 27.90 kJ/K
Editable Properties
Sample Height: 6096.0
Layers
EXTERIOR SIDE
Function
Material
Thickness
Wraps
Structural Material
1 Finish 1 [4] Brick, Common 102.5
2 Thermal/Air Layer [3] Fiberglass Batt 75.0
3 Core Boundary Layers Above Wrap 0.0
4 Structure [1] Concrete Masonry Uni 100.0
5 Core Boundary Layers Below Wrap 0.0
6 Finish 2 [5] Plaster 12.5
Insert
Delete
Up
Down
Default Wrapping
At Inserts: Both
At Ends: None
Modify Vertical Structure (Section Preview only)
Modify
Merge Regions
Sweeps
Assign Layers
Split Region
Reveals
Click the preview Tab to show what the object make up in plan and section.
Click 'OK' and 'Apply' in the Type Window
View: Floor Plan: Modify typ
Preview >>
OK
Cancel
Help

11-CURTAIN WALLS

12-STAIRS

13-RAILINGS

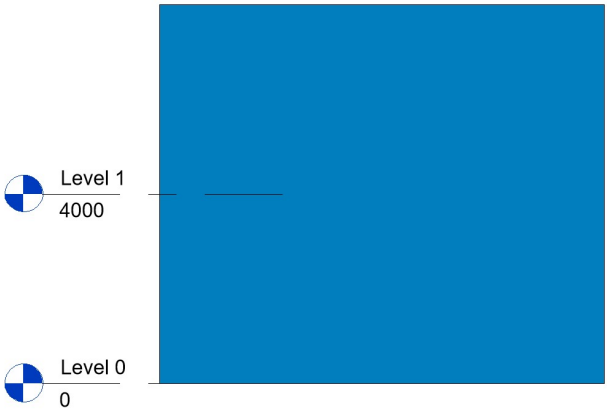
14-COLUMNS

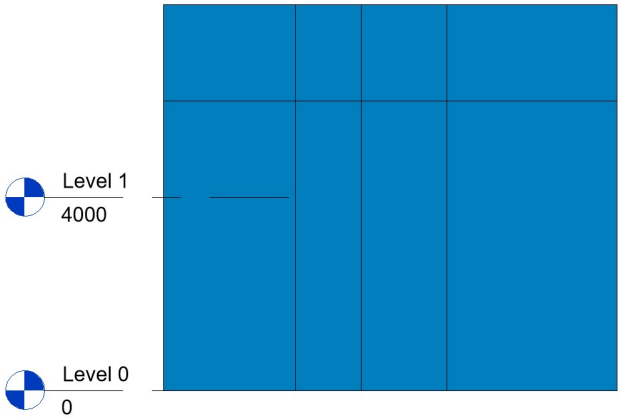
11-CURTAIN WALLS

Curtain Walling – By Wall

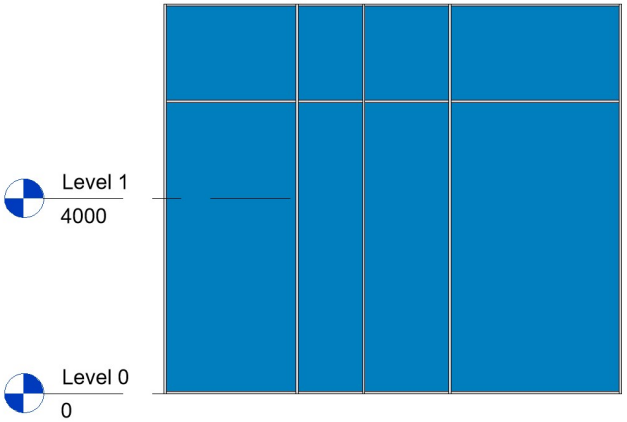
Draw a wall to set height (unconnected or to level) Using Curtain Wall EMPTY

Go to elevation view – change visibility to shaded



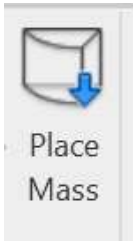


Add a Curtain Grid to your curtain wall to required horizontal and vertical spacing.

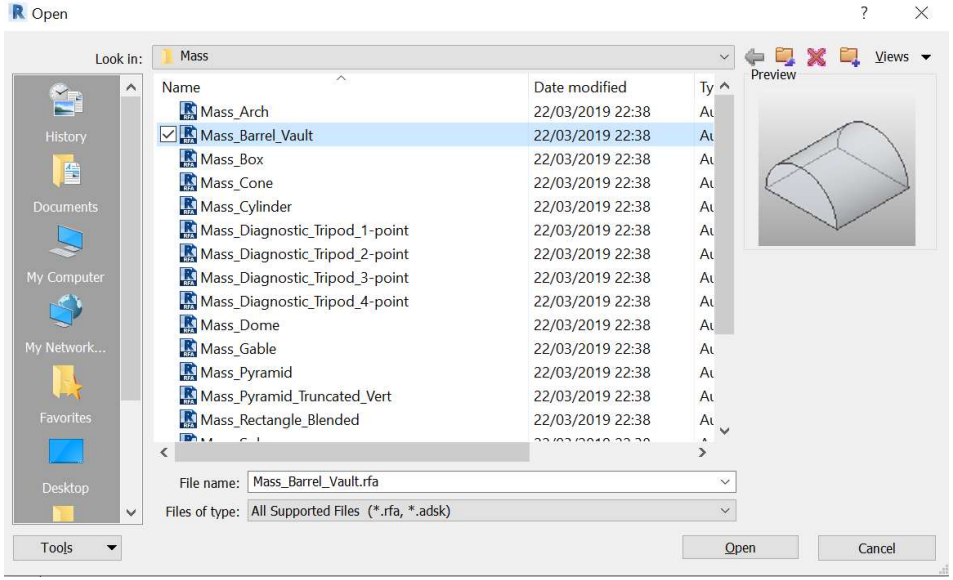


Change grid lines to Mullions by clicking the mullion icon.

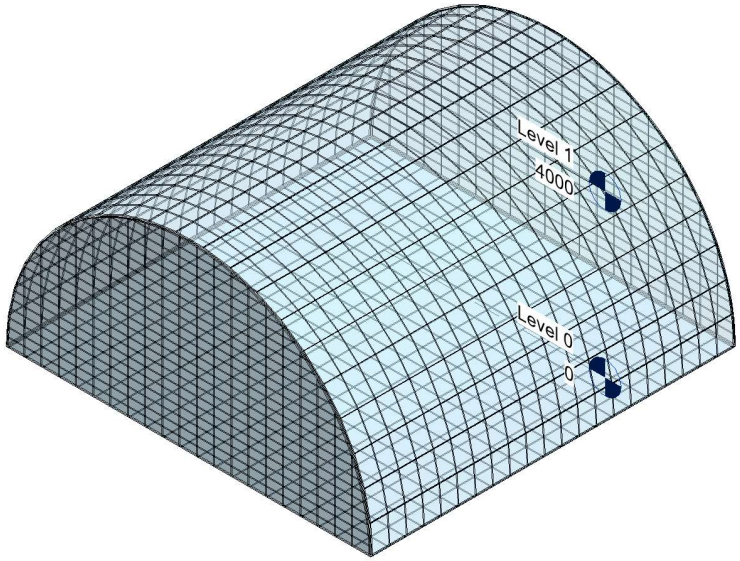
Load appropriate Mullion families.



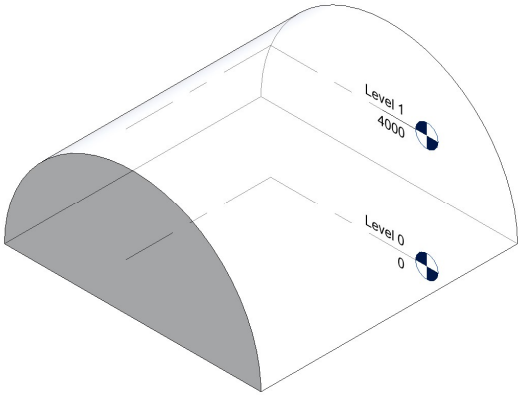
Curtain System by Mass.
Under Massing & Site selected Place Mass



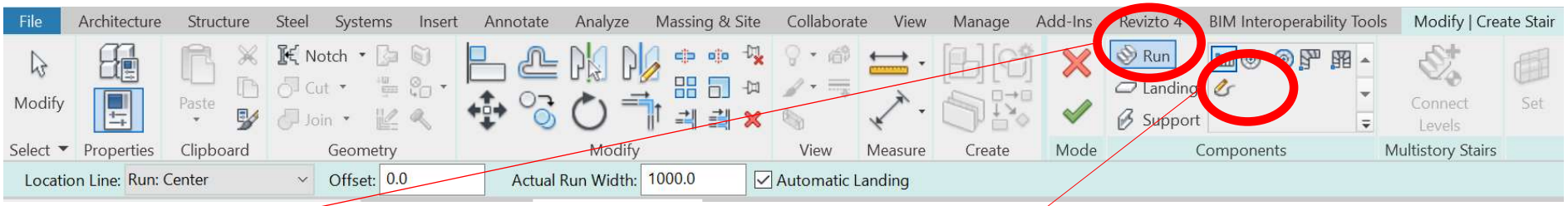
Click 'Curtain System' Select all faces of the mass. In the properties palette change the number of grids of the system. Once you have the appropriate number of grids click 'Create System'



Place the Mass in the appropriate Plan view.
Double Click the 3D view



12-STAIRS

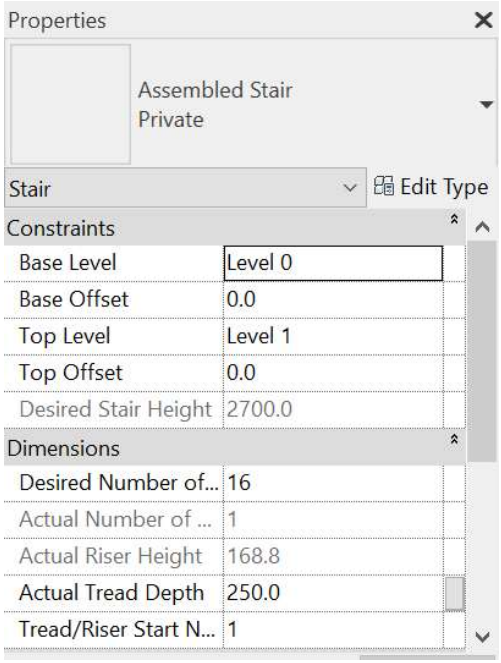


Create a Stair by Run.

Check Base level and top level in the Properties Palette. Change stair type as appropriate.

Click to start run and click to finish run once 0 risers remain.

Click the TICK



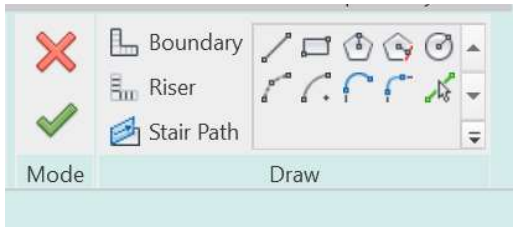
Create a Stair Sketch.

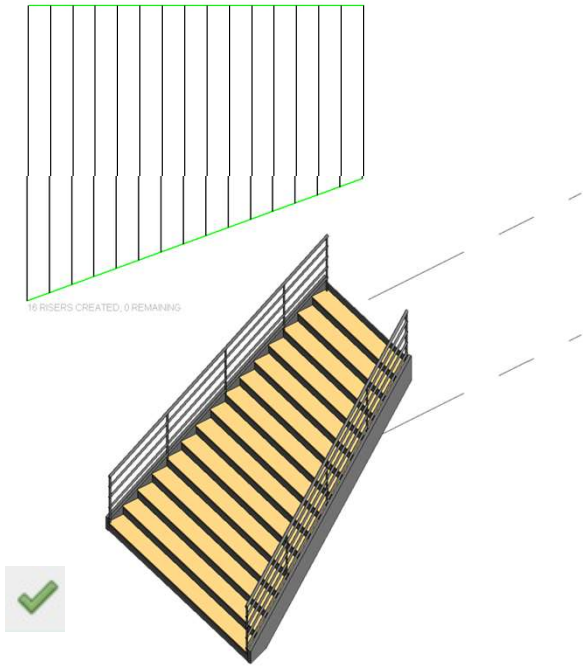
Check Base level and top level in the Properties Palette. Change stair type as appropriate.

Click Boundary (green lines) and draw boundary lines.

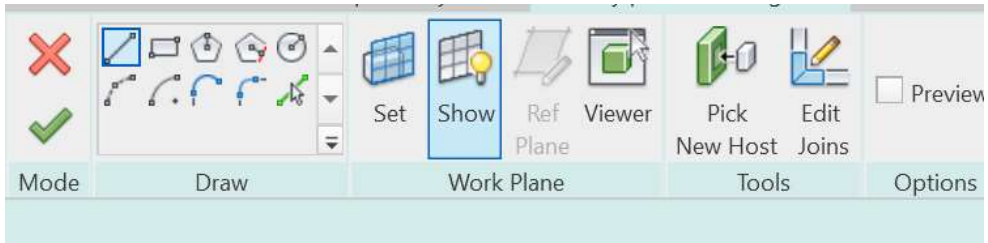
Click Riser (black lines) and draw risers until 0 risers remain.

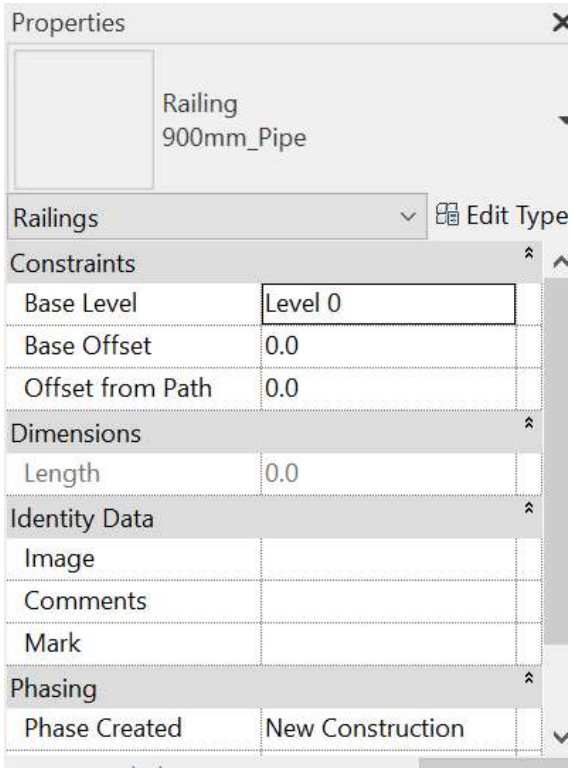
Note: risers must touch boundary lines.





13-RAILINGS



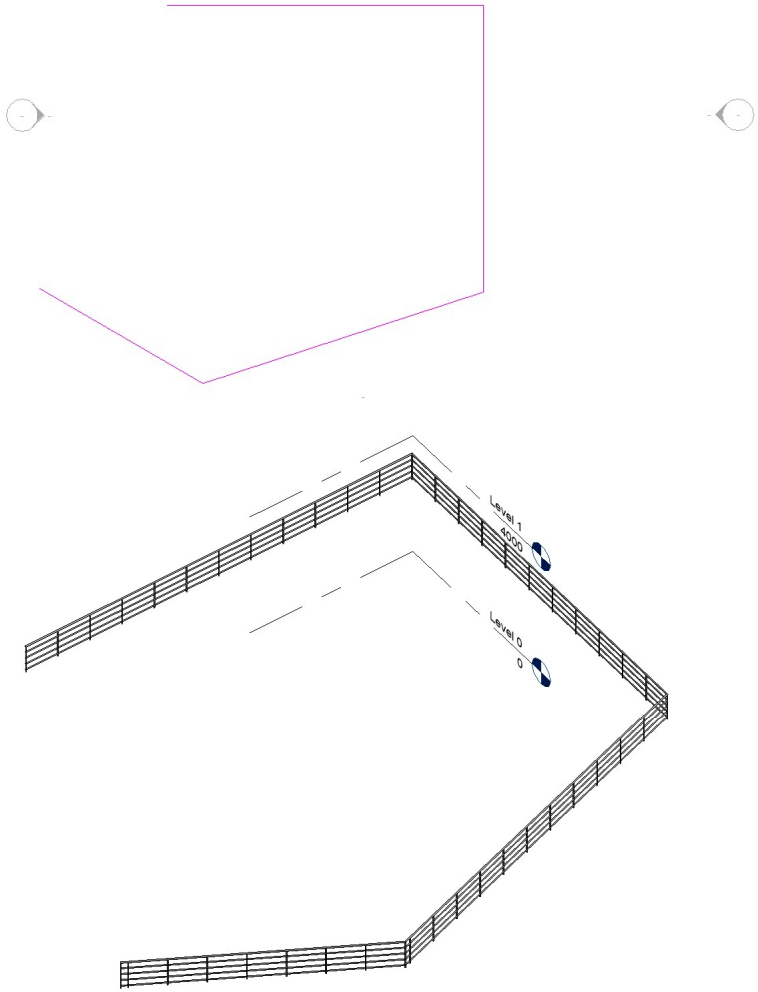


Create Railings by sketching lines

Check Base level in the Properties Palette. Change railing type as appropriate.

Draw a 'Chain' of lines in the sketch (magenta)

Click the TICK

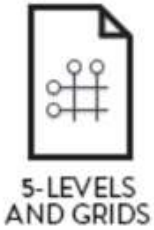


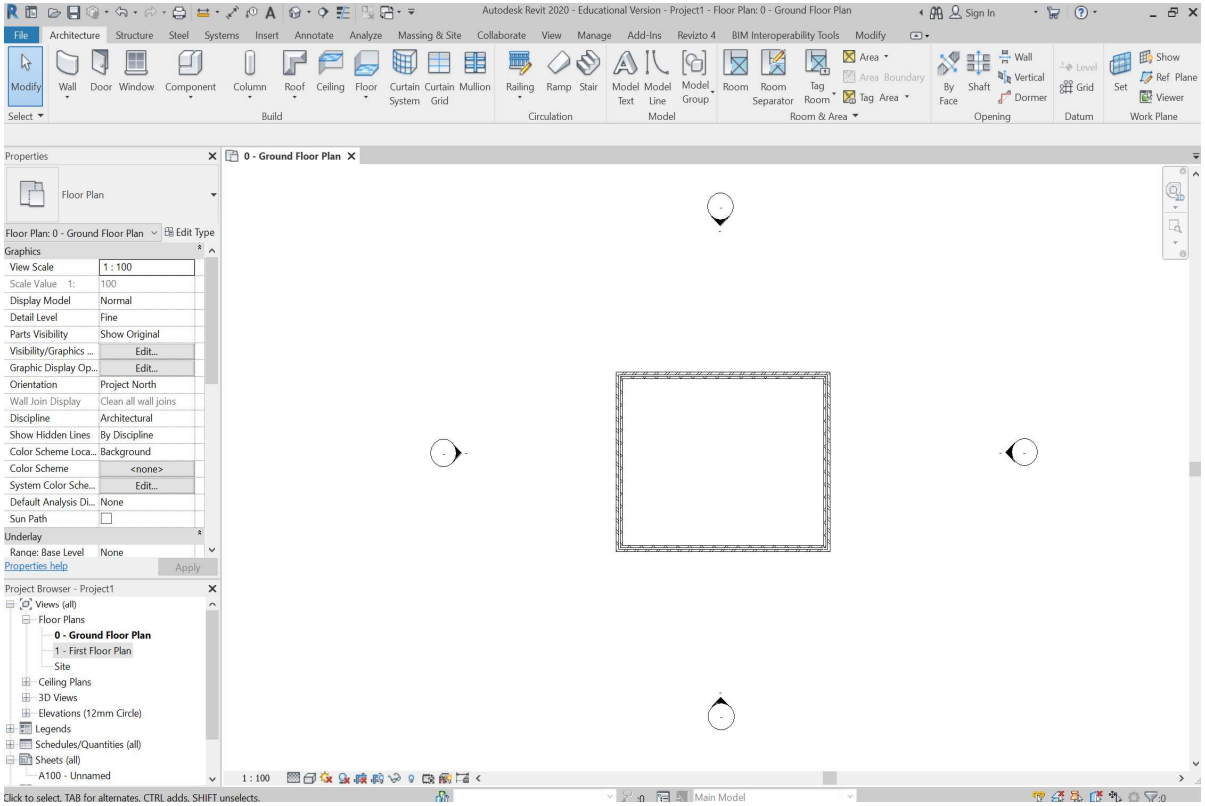
Exercise 2

Draw a 2 storey House.

Set up your levels in Elevation view.
Distance between levels of 2700mm

Rename your levels.
0 – Ground Floor Plan
1 – First Floor Plan



Draw a plan 10m wide by 8m deep, select or create your own wall type.

- Add internal walls to create rooms to the ground floor, such as Lounge, Kitchen diner, hallway, WC.
- Add internal walls to create rooms to the first floor, bedrooms, bathroom, landing – (make sure you leave some room for a staircase)
- Add, floors, ceilings, windows, doors and a roof.