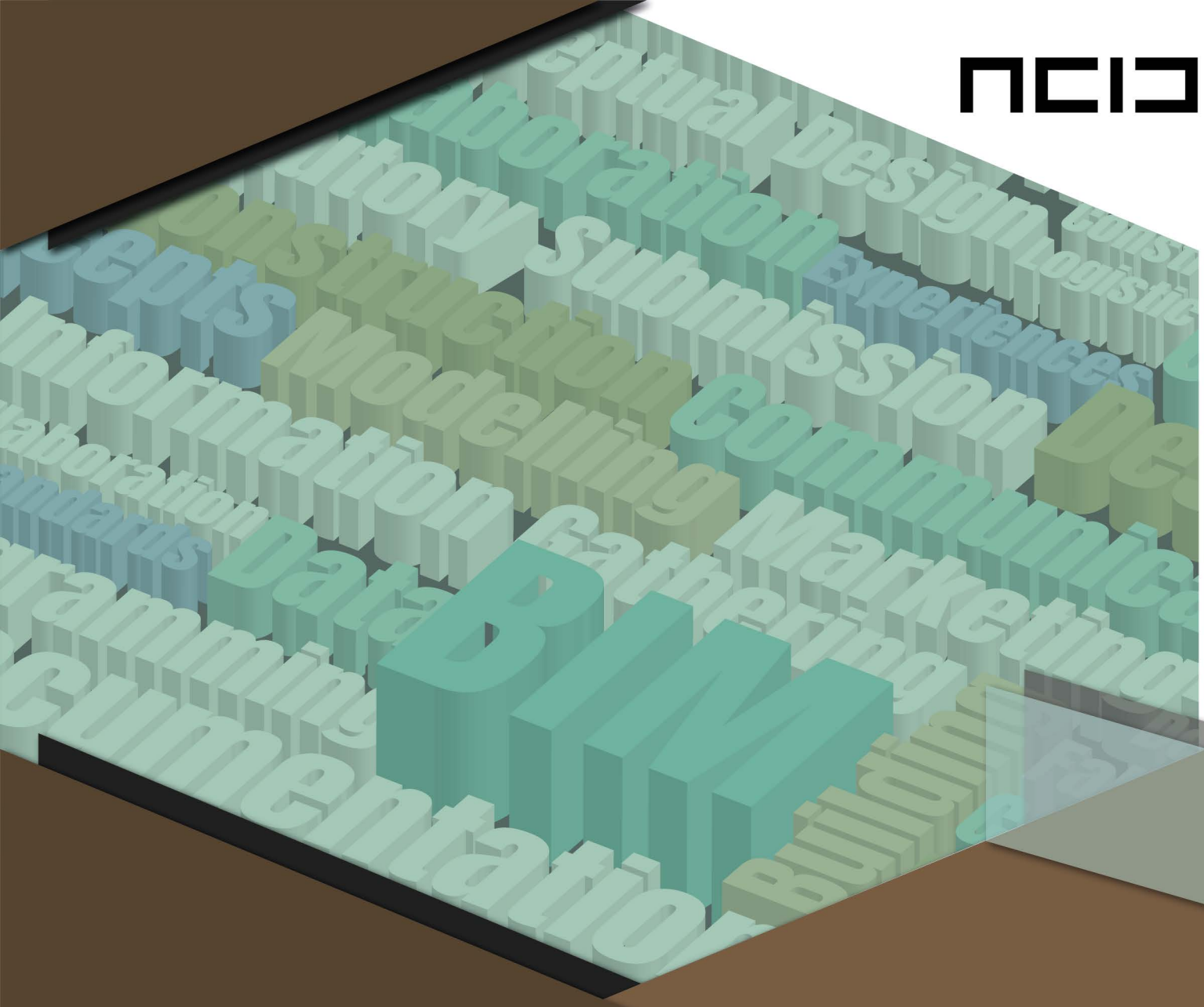


BUILDING INFORMATION MODELLING

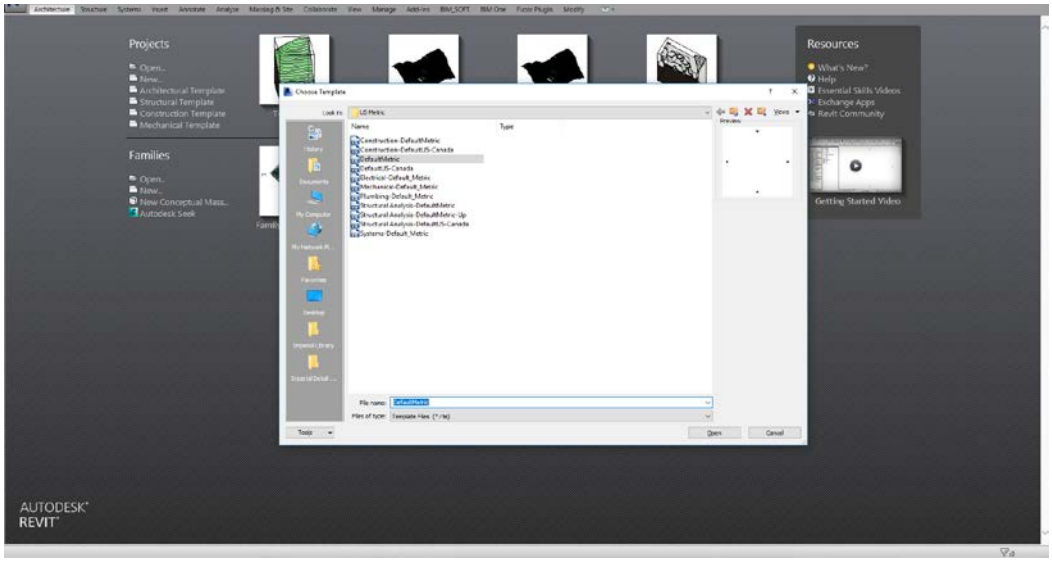
Training Materials

Conceptual Design (Revit)

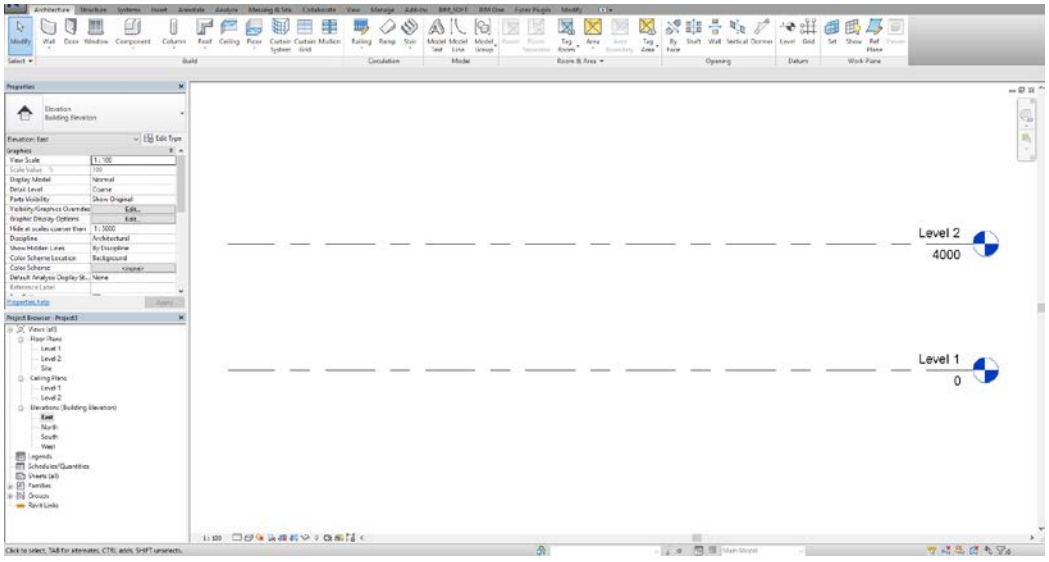
Advanced Construction Information Development Ltd.

Set Up

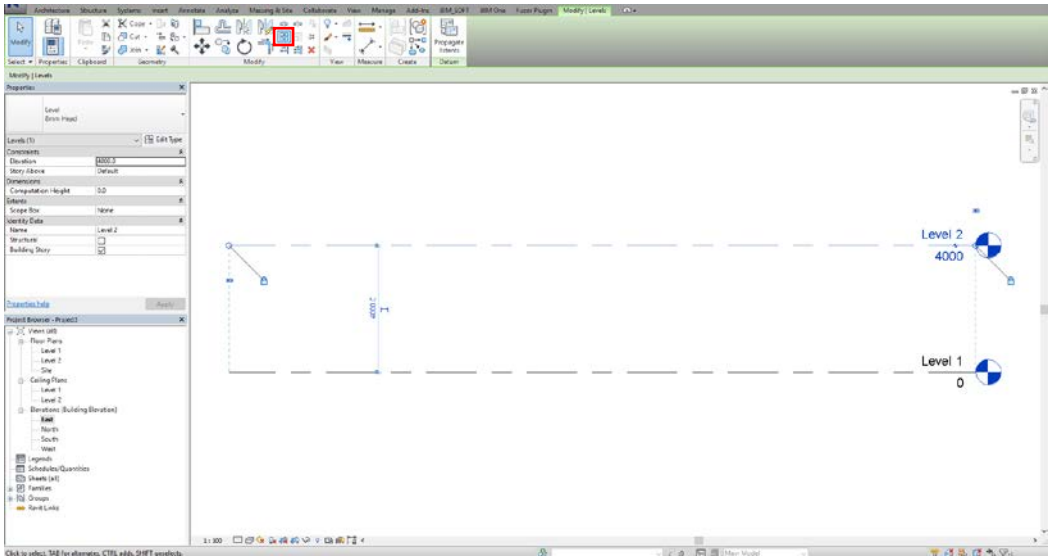
Open a **New Project**



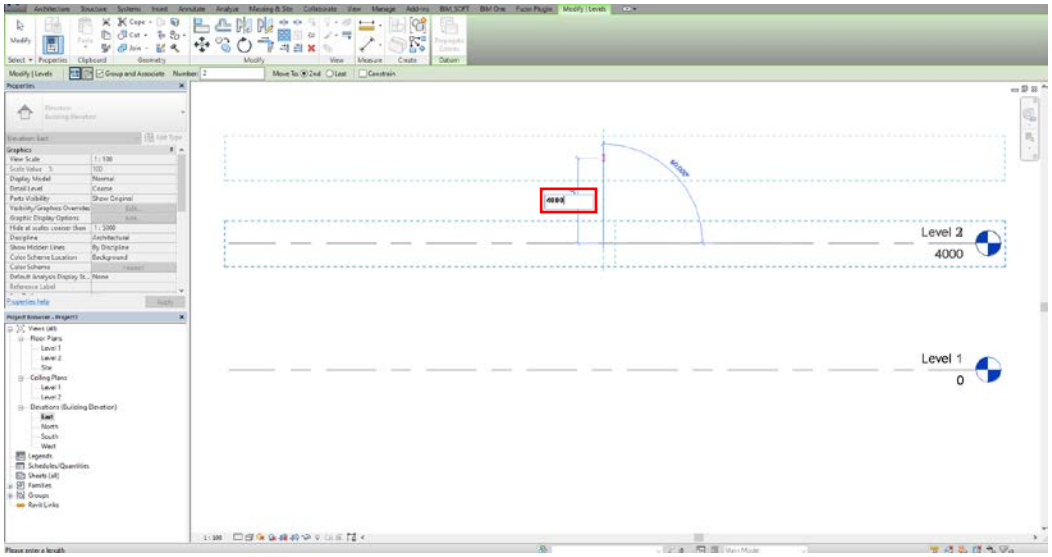
Go to any **Elevations**



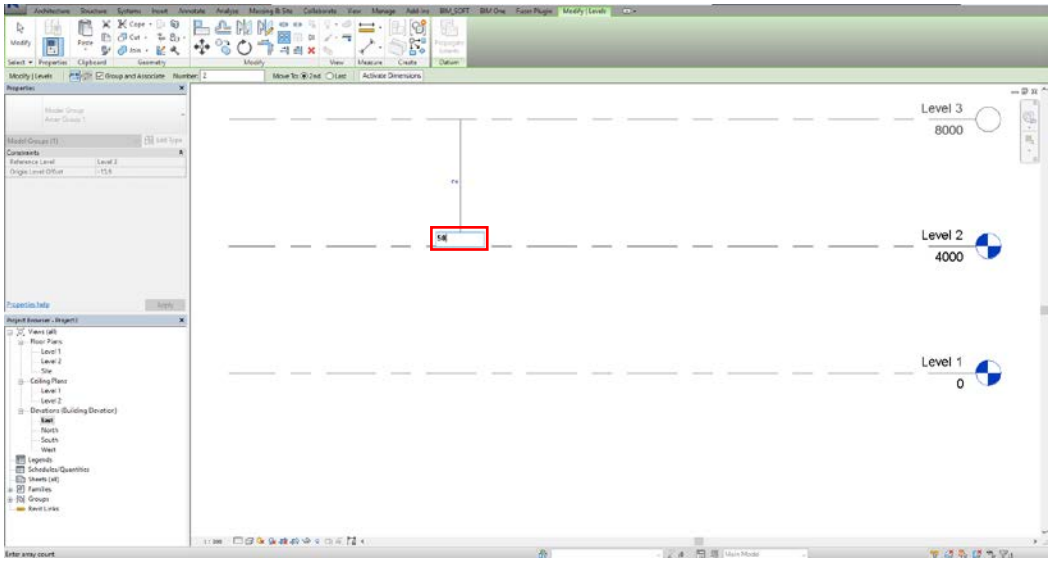
Select the higher level then click on the **Array** tool



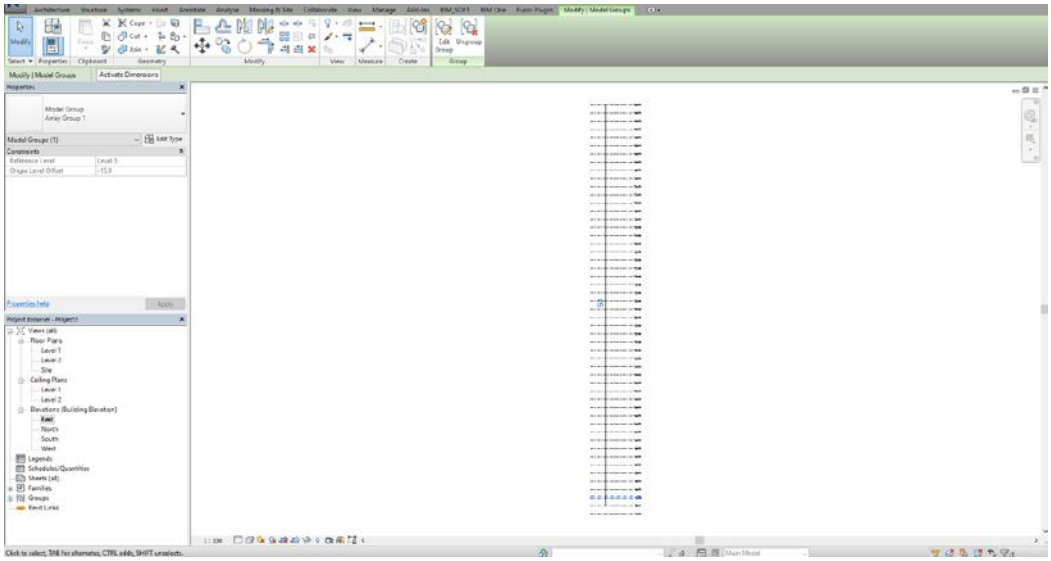
The **Height** of **Level** can be set



The **Number** of **Levels** can also be set

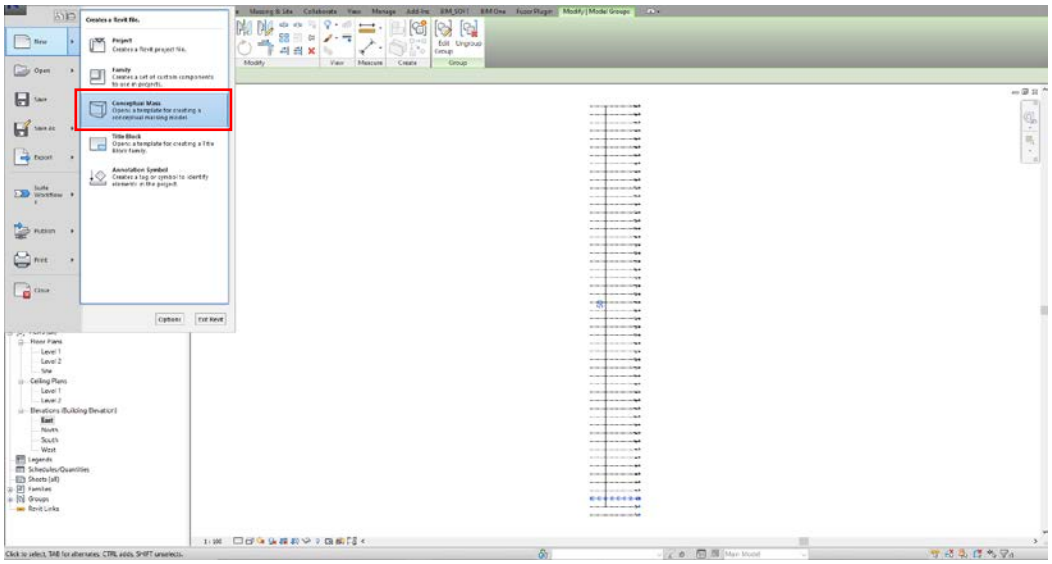


The result should be similar to this image

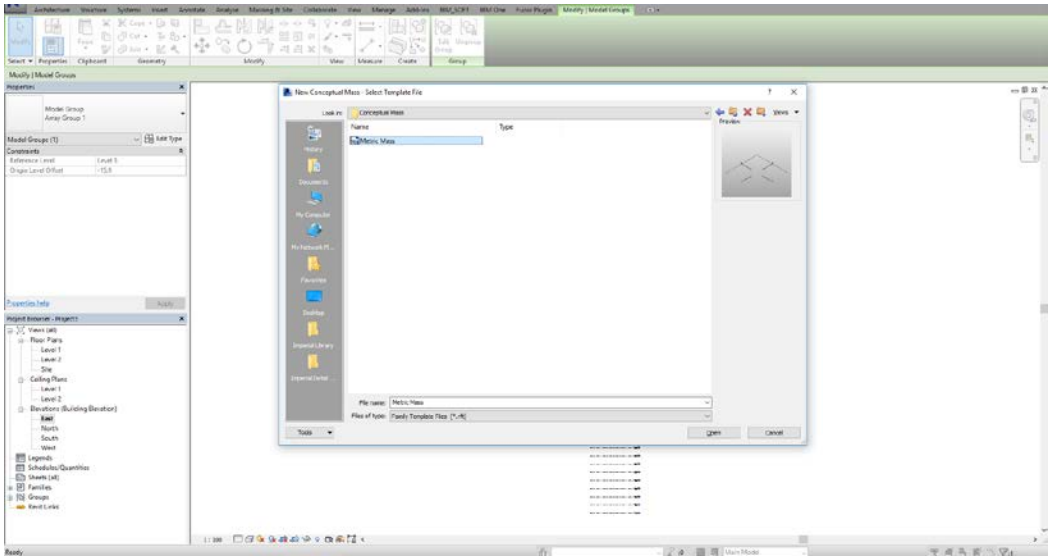


Conceptual Mass to Project

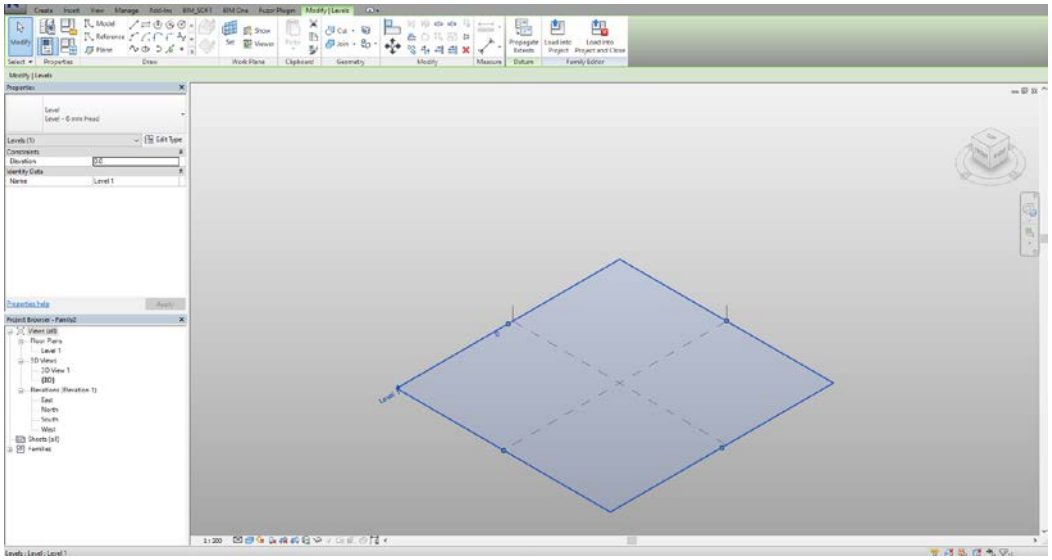
Create **New Conceptual Mass**



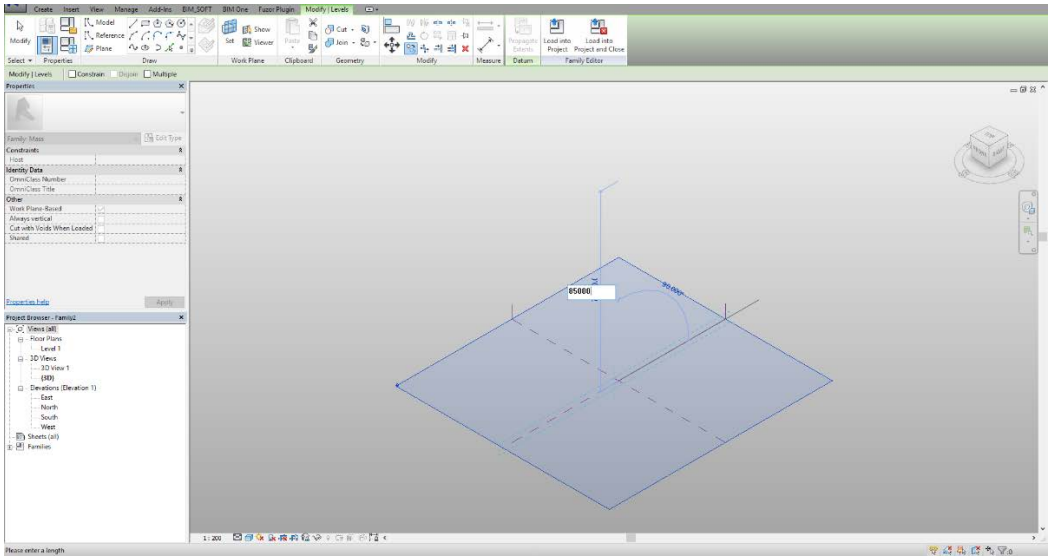
Be sure to select Metric Mass



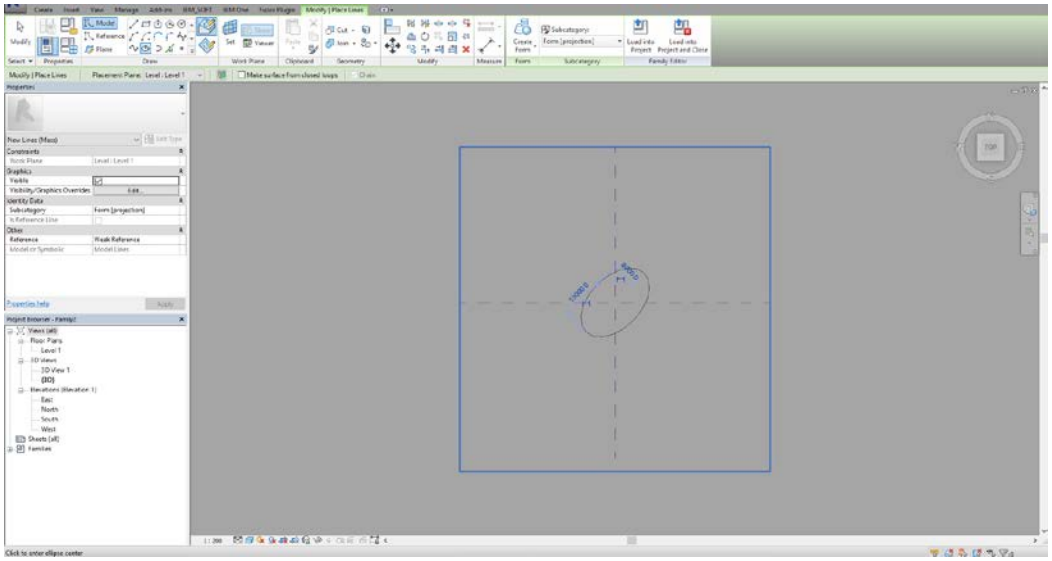
Hover the **Plane** and double click to set as **Working Plane**



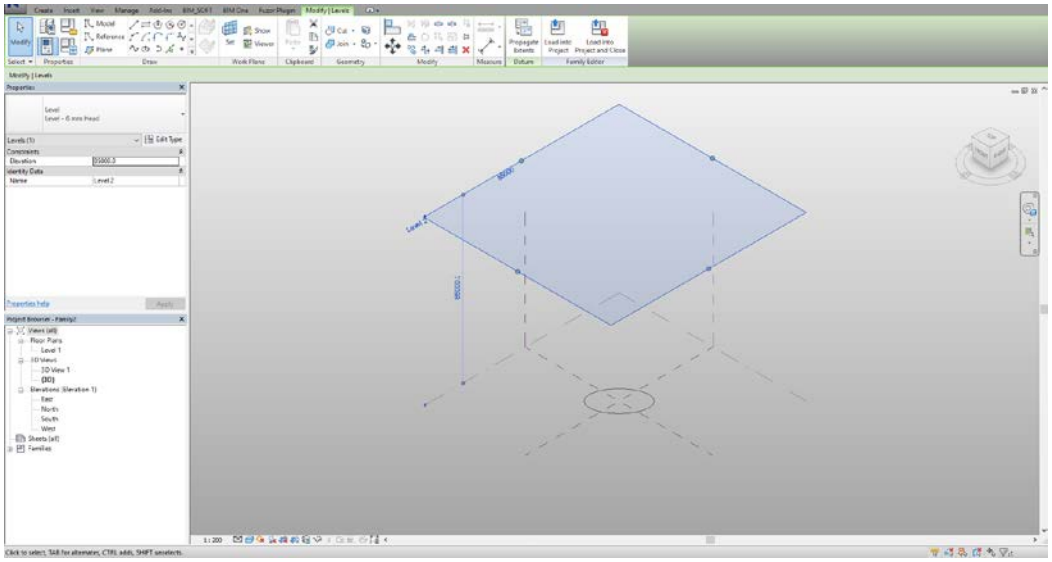
Use the **Copy** tool (**CC**) to create a higher **Work Plane**



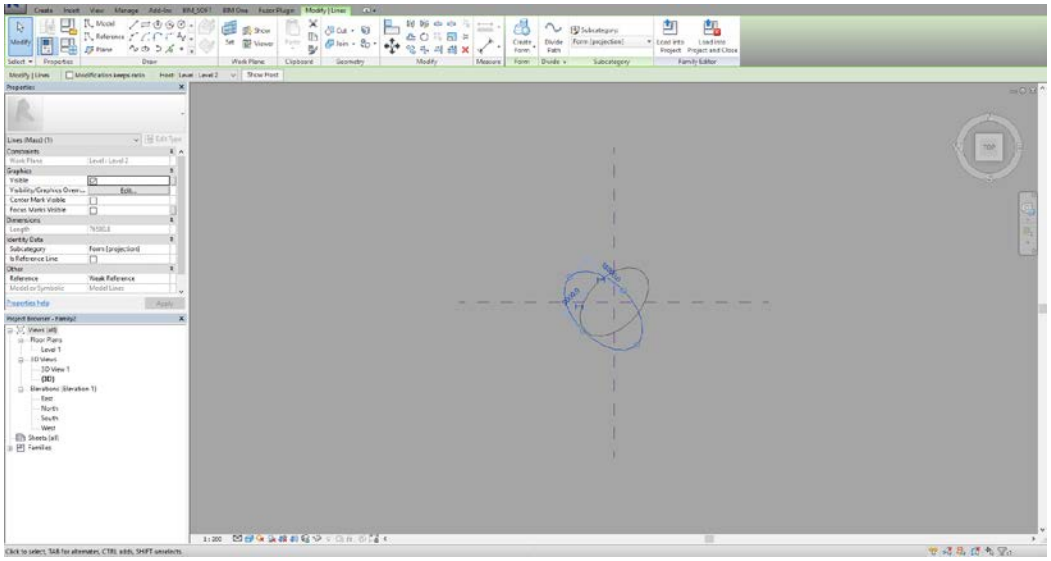
With the bottom plane set as **Work Plane**, create any geometry



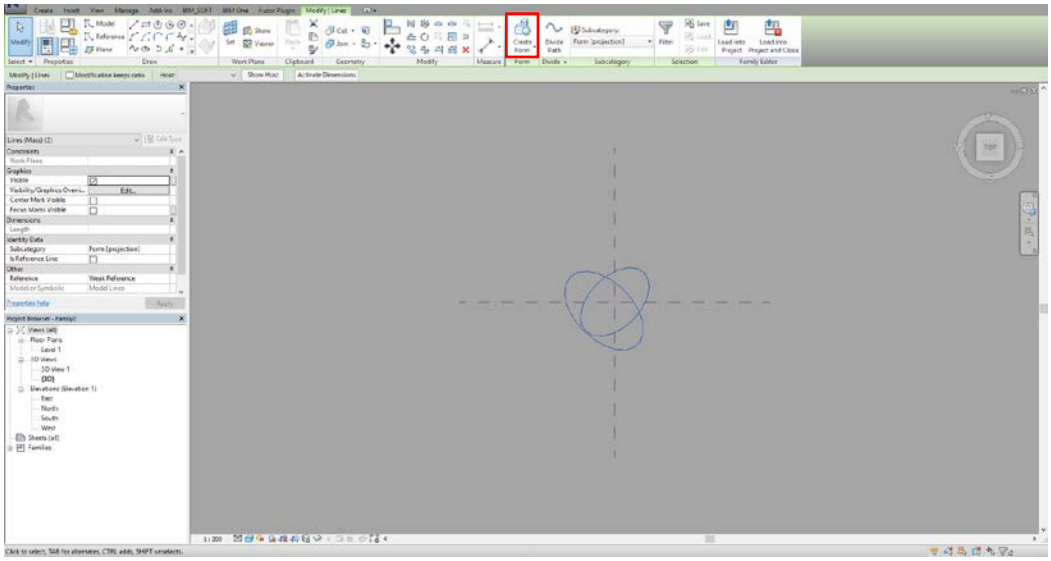
Go to another view and set the higher Plane as Work Plane



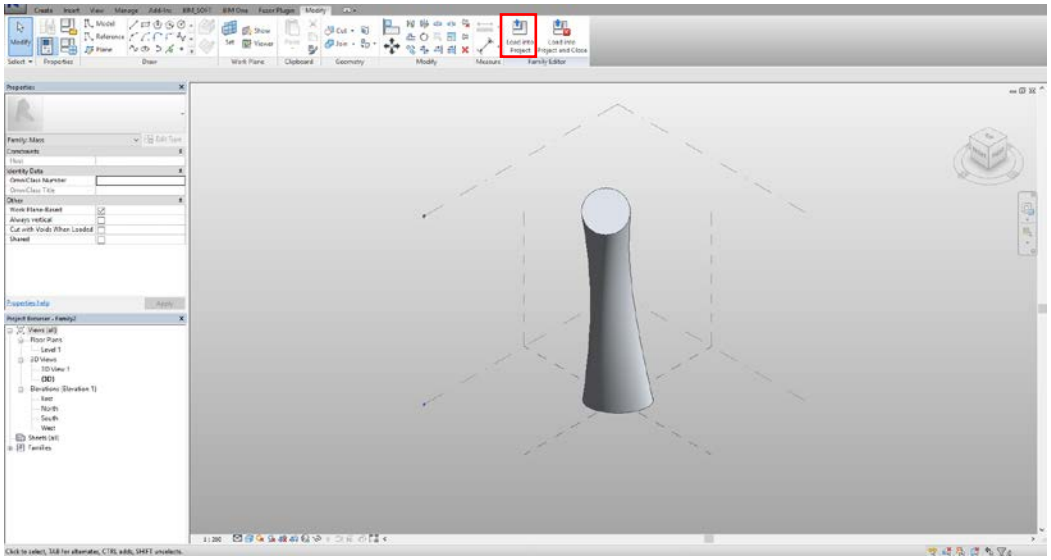
Create another geometry on top



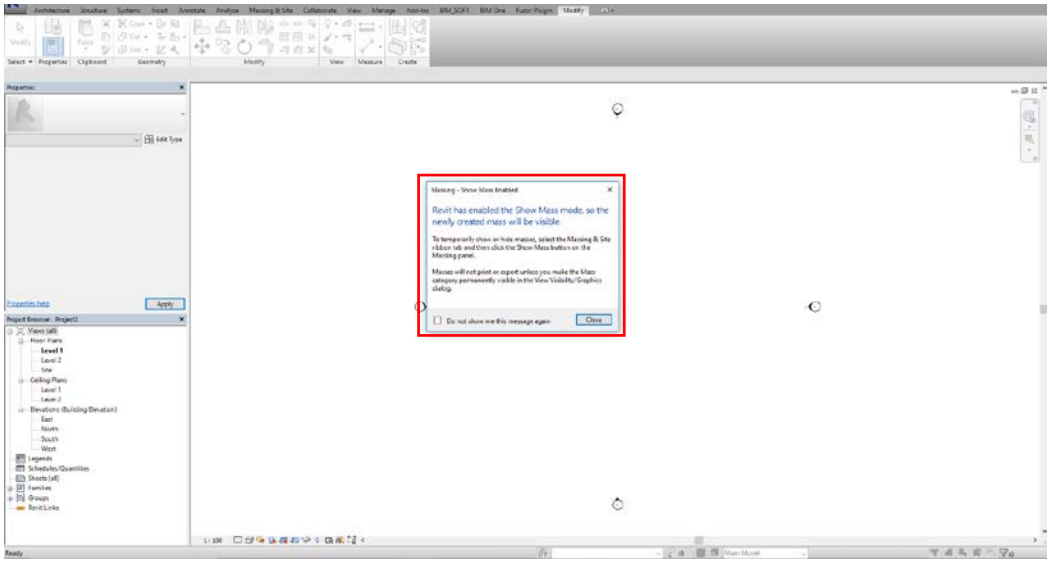
Highlight both geometries then click on **Create Form**



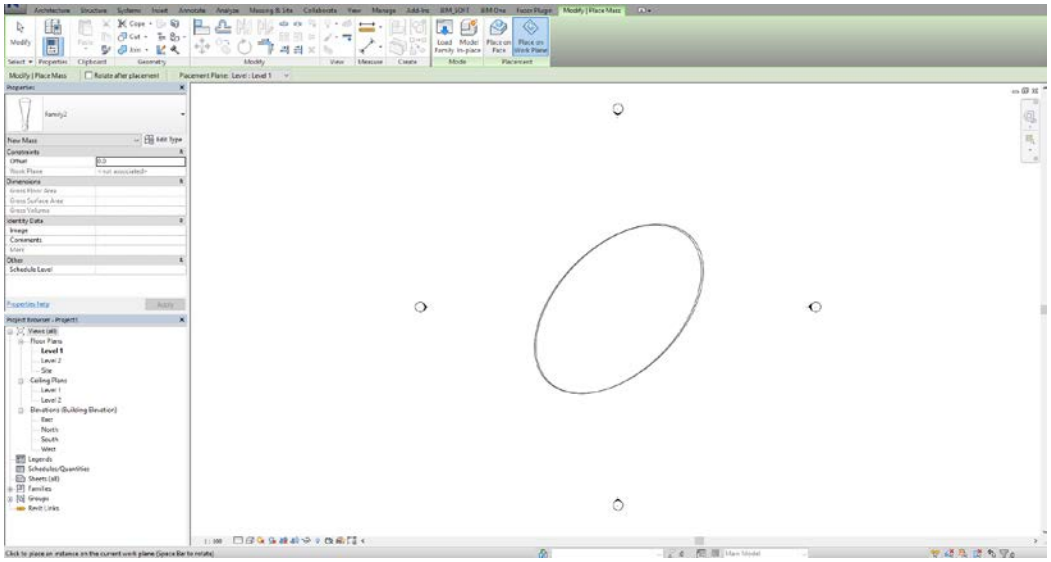
This should be the result. Click **Load into Project**



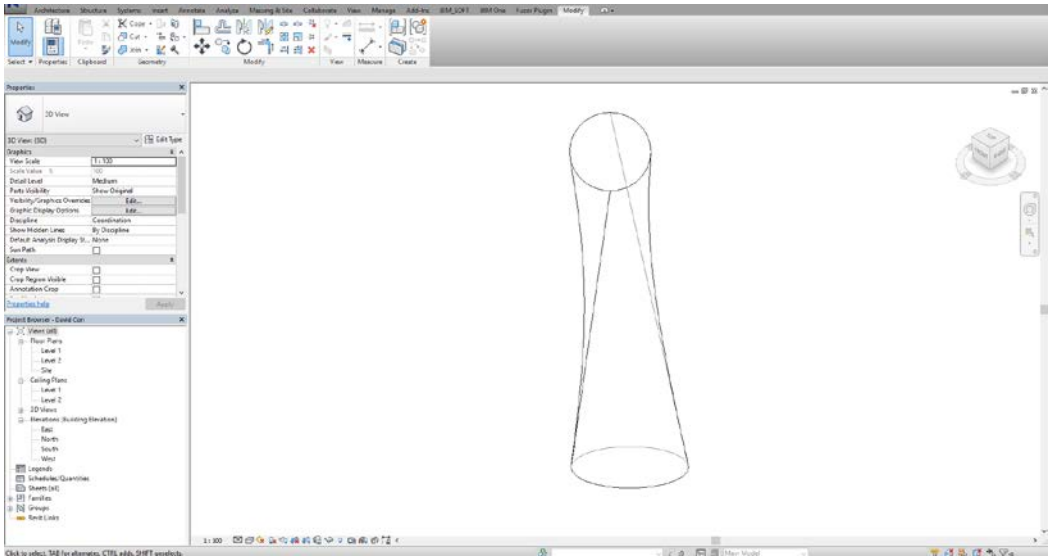
A warning should appear due to default settings of **Revit**



Place the **Mass** in the desired location

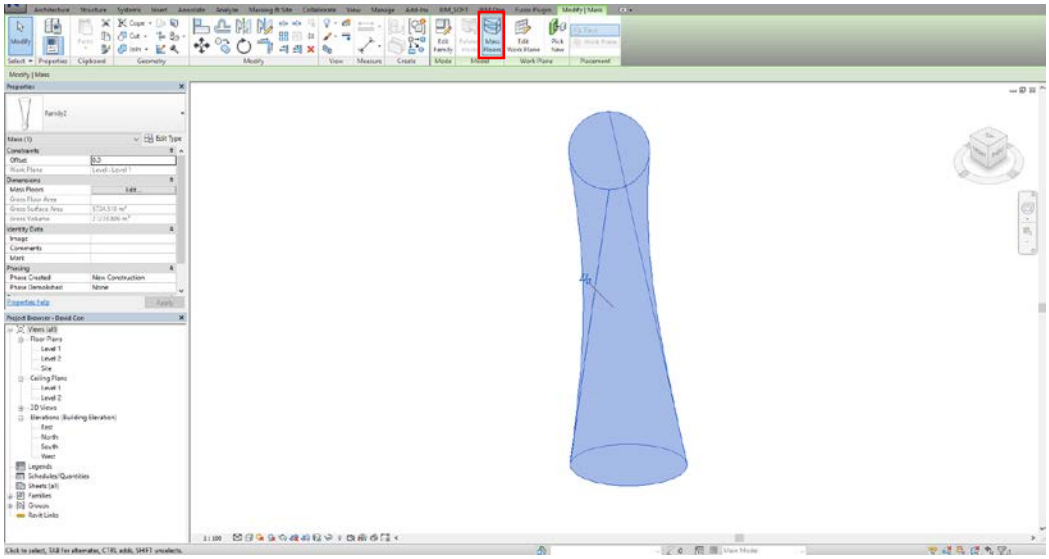


This should be the result

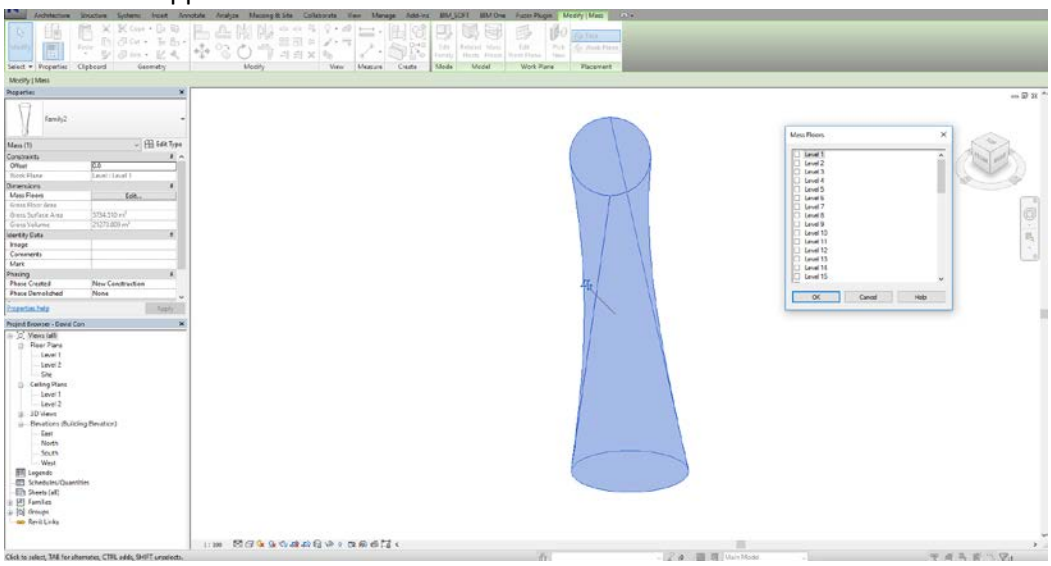


Creating Floors

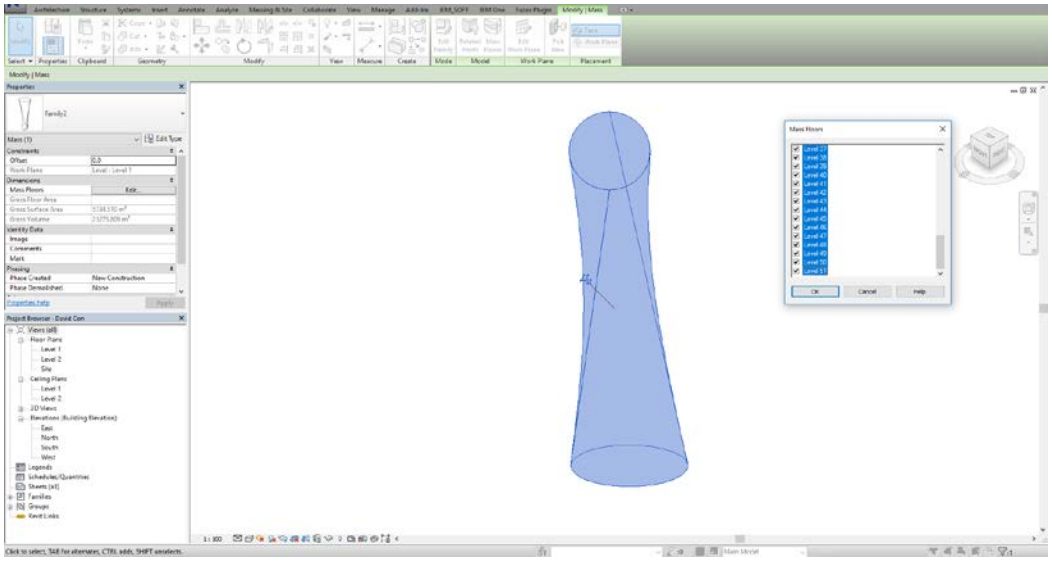
Select the model then click on **Mass Floors**



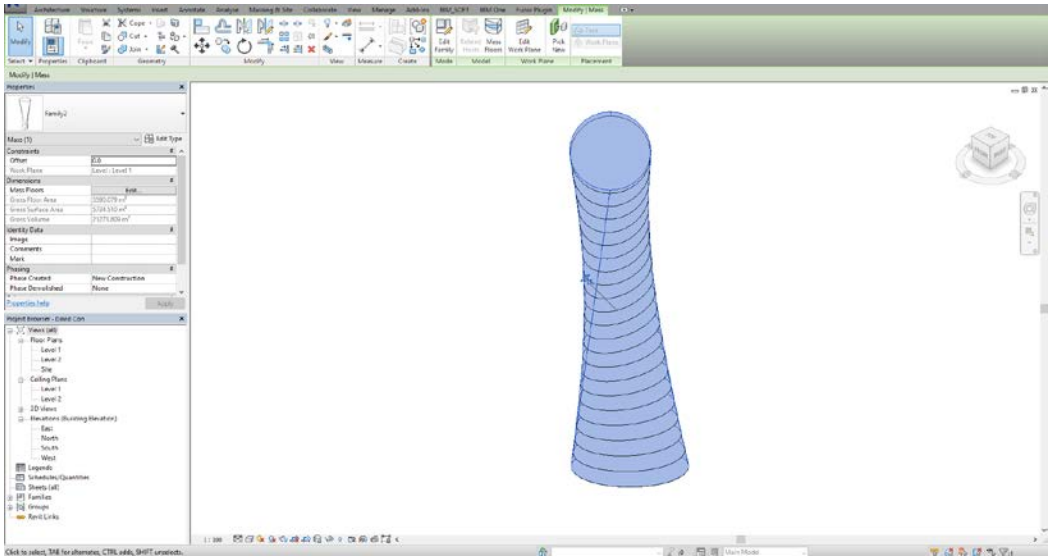
A list should appear if the **Levels** were set



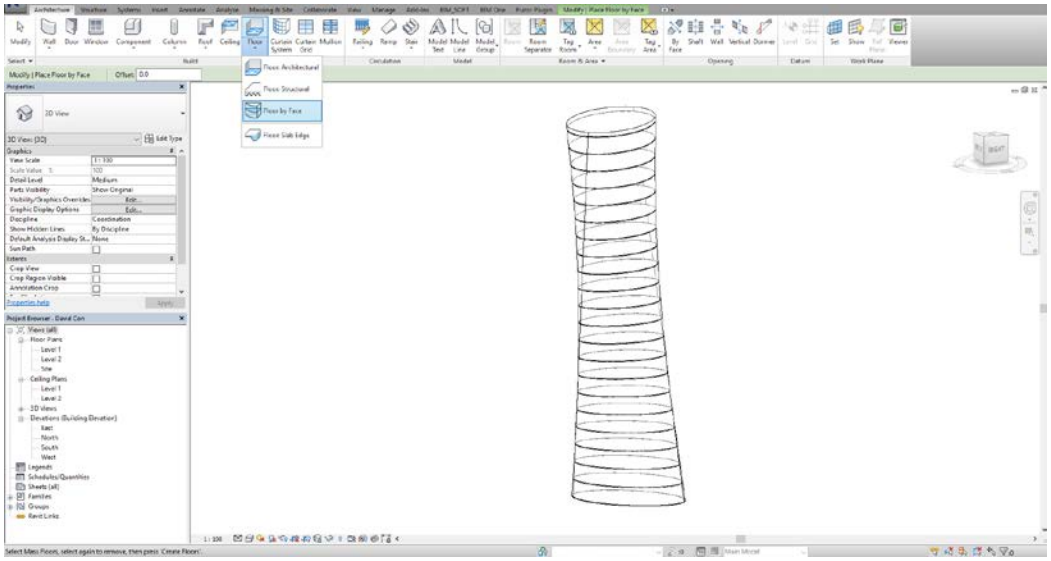
Using the **Shift** key, highlight all and select all the **Levels**



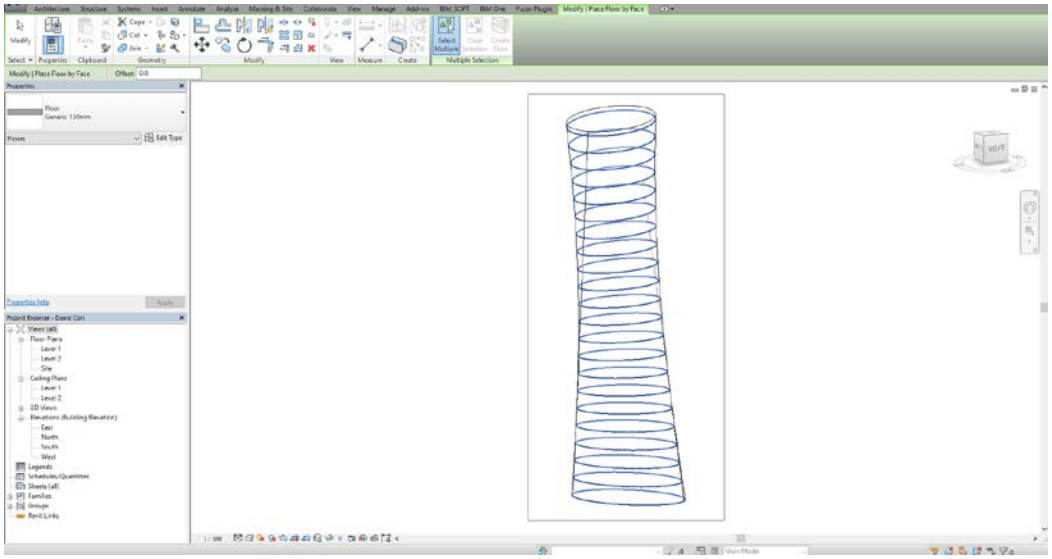
This should be the result



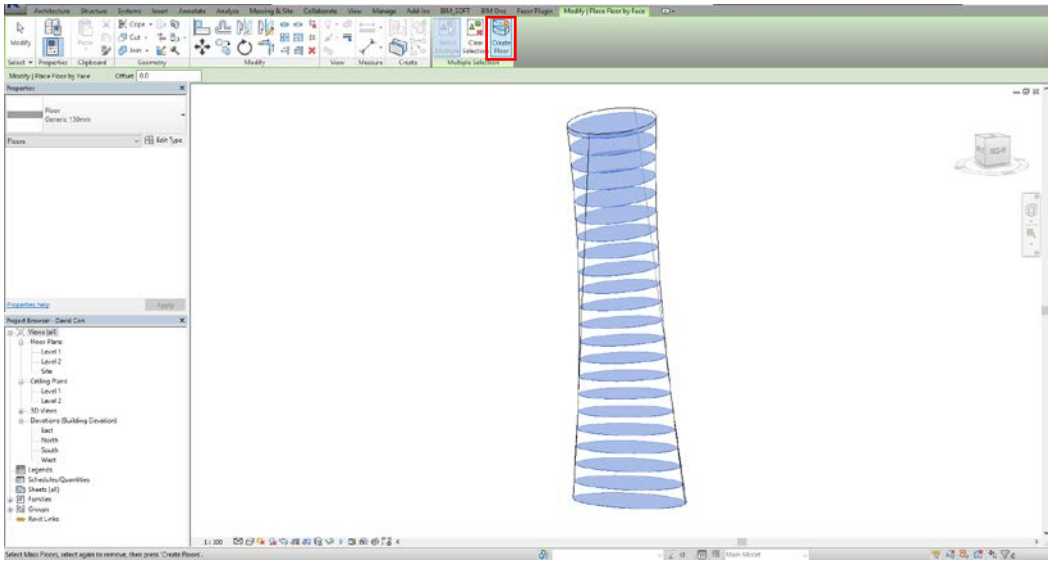
Go to the **Architecture Tab** and click on the drop-down menu of **Floor** then select **Floor by Face**



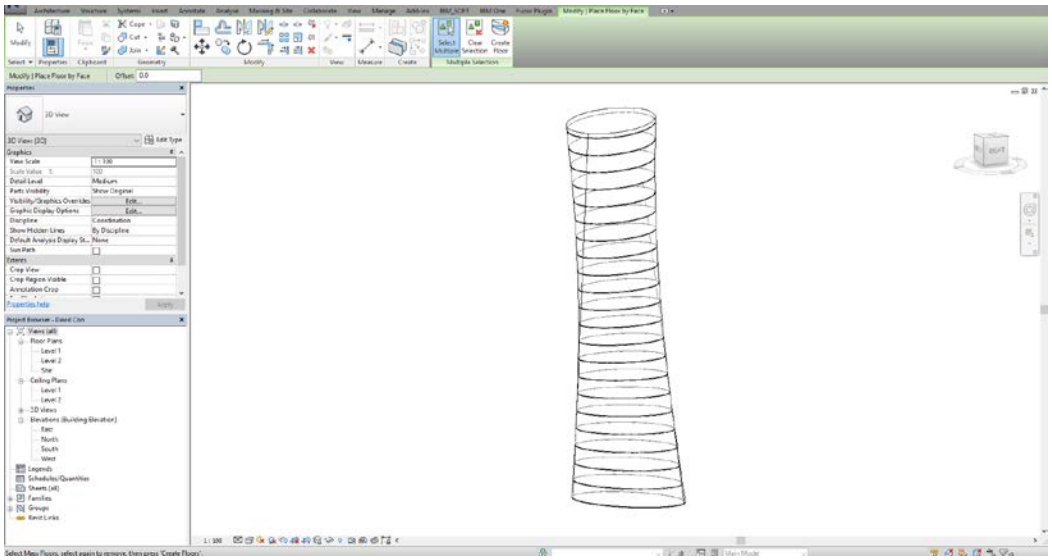
Select all the **Levels**



Click on **Create Floor**

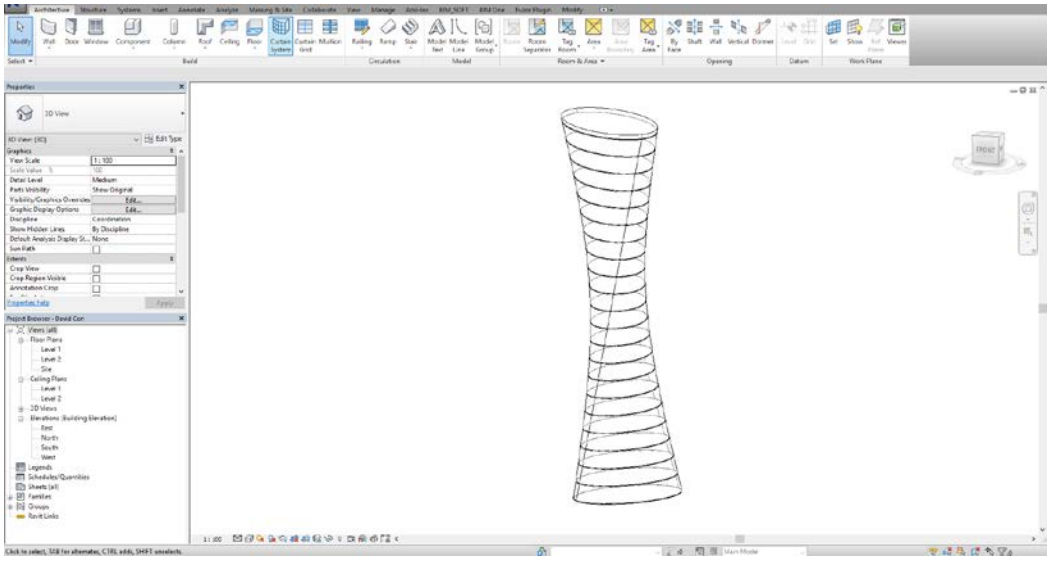


This should be the result

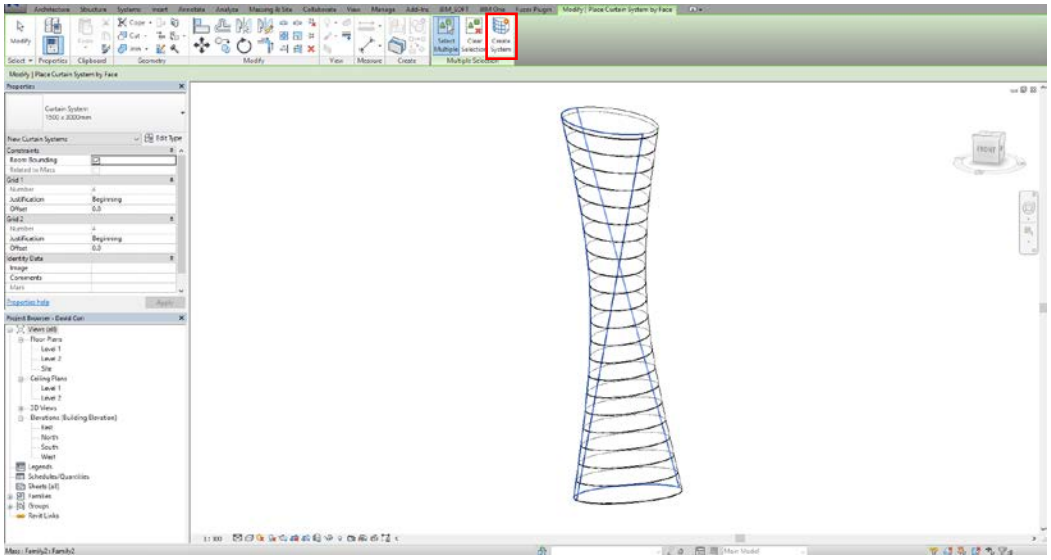


Creating Curtain Wall

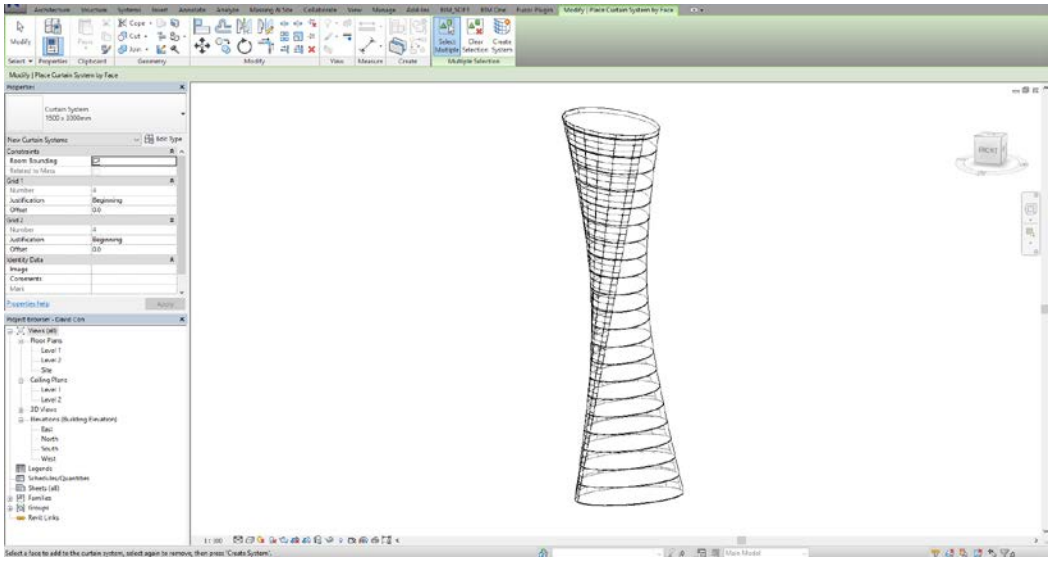
Go to the **Architecture Tab,** click on **Curtain System**



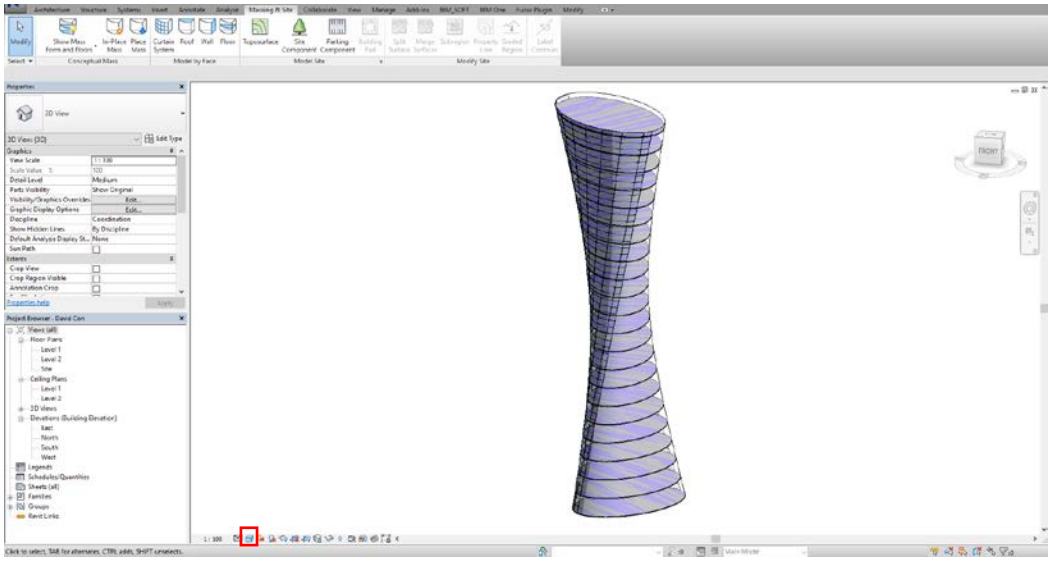
Select the surface that a **Curtain Wall** is needed, then click on **Create System**



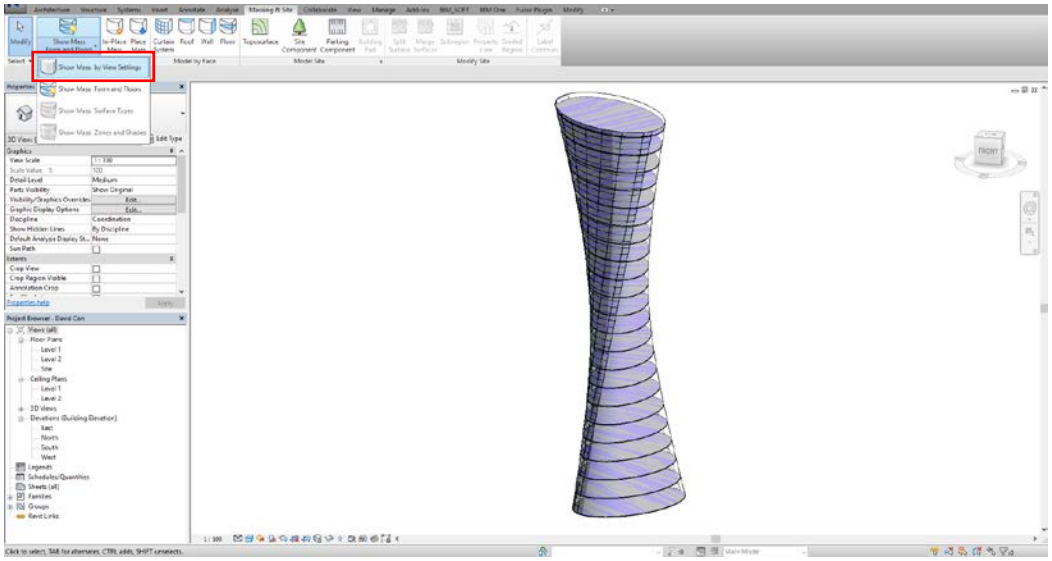
This should be the result



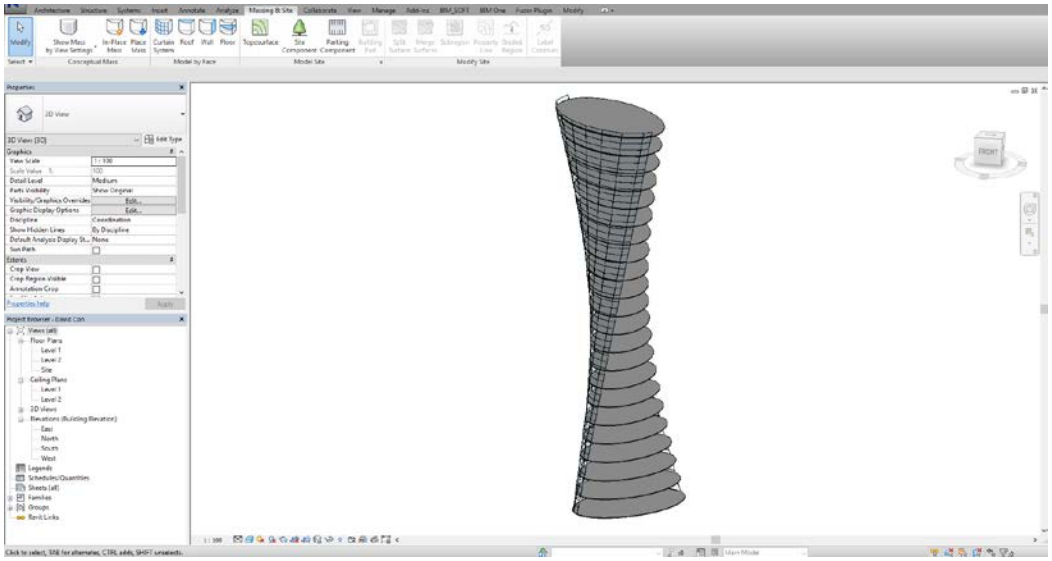
When switched to Shaded mode, the **Model** overlaps with the **Mass**



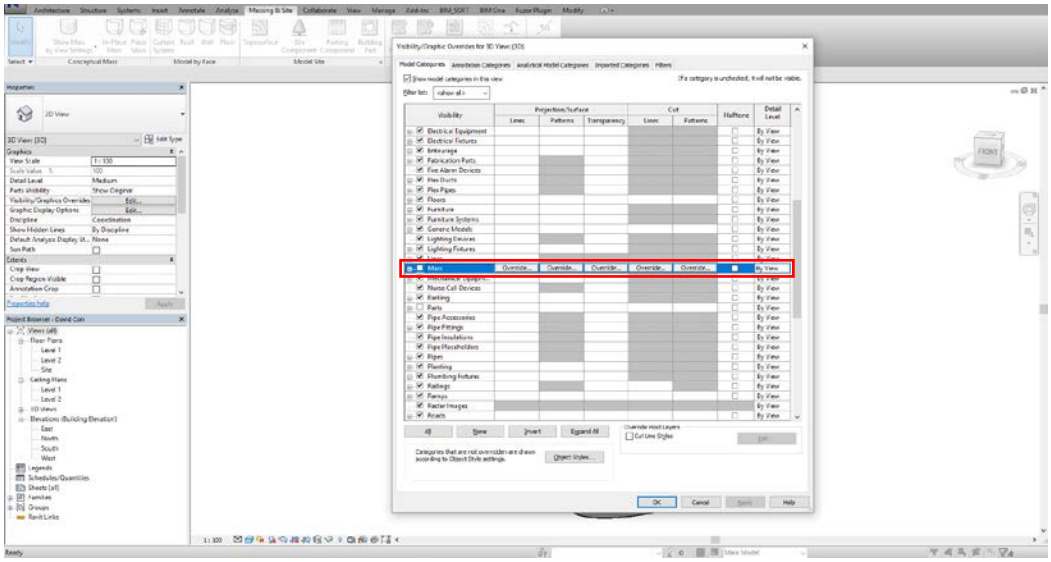
This can be avoided by switching from **Show Mass Form and Floors** to **Show Mass by View Settings**



This should be the result

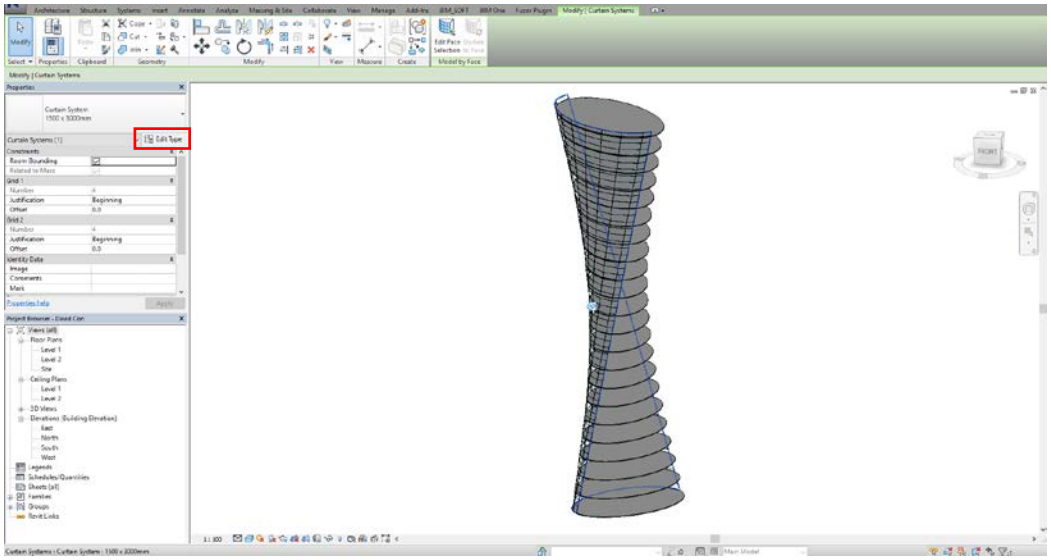


If they still collide, go into **View Settings** (**VV/VG**) and uncheck **Mass**

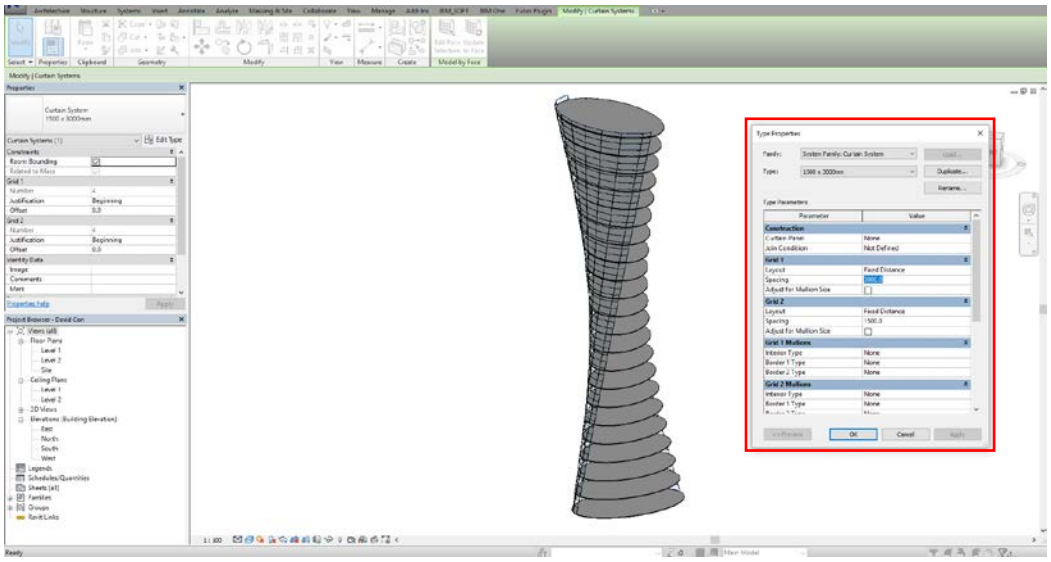


Edit Type

The Curtain Wall added to the surface can be edited just as other Family objects

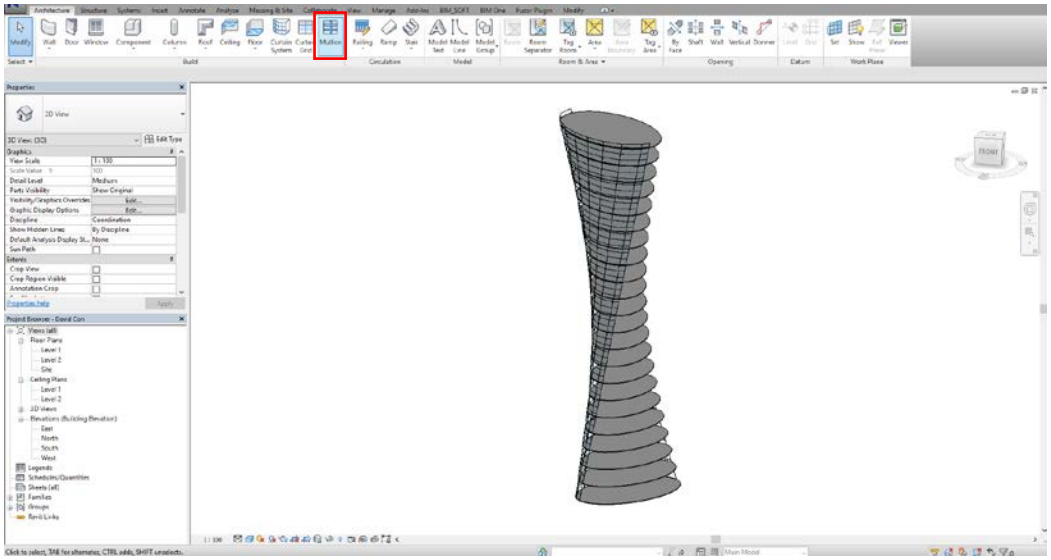


Edit to desirable result

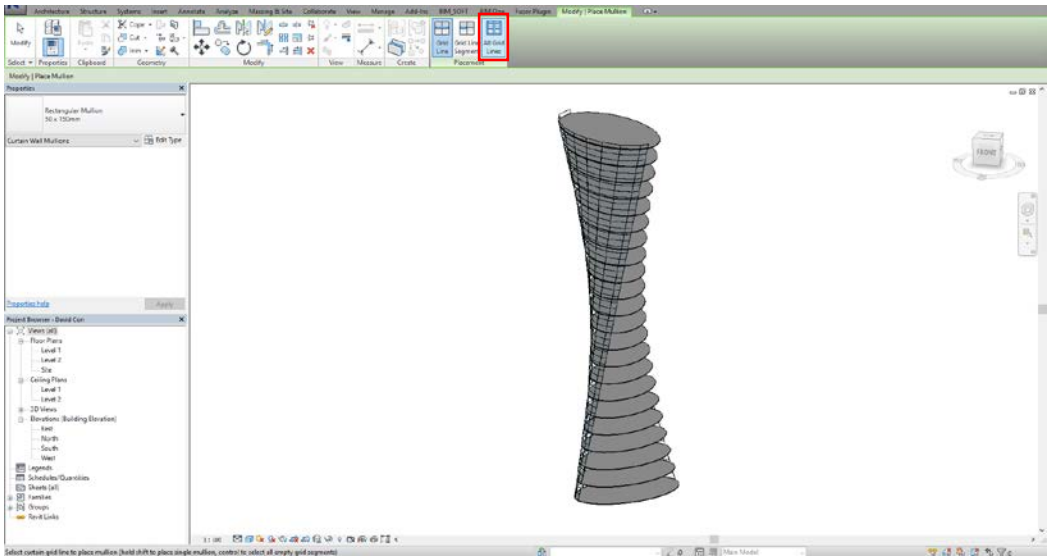


Creating Mullion

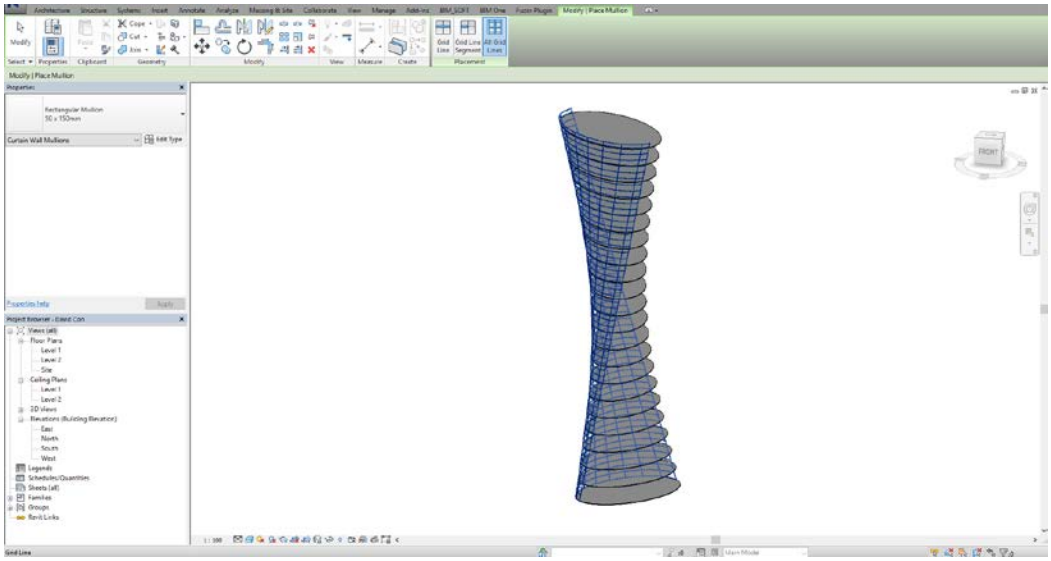
To add **Mullion,** go to the **Architecture Tab**



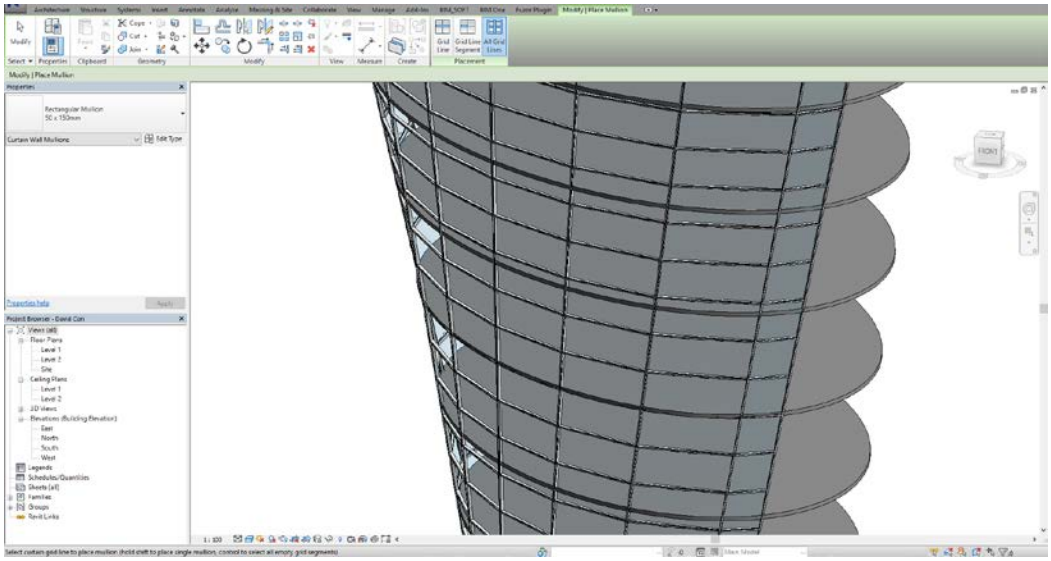
Select **All Grid Lines**



Select the **Curtain Wall** previously created

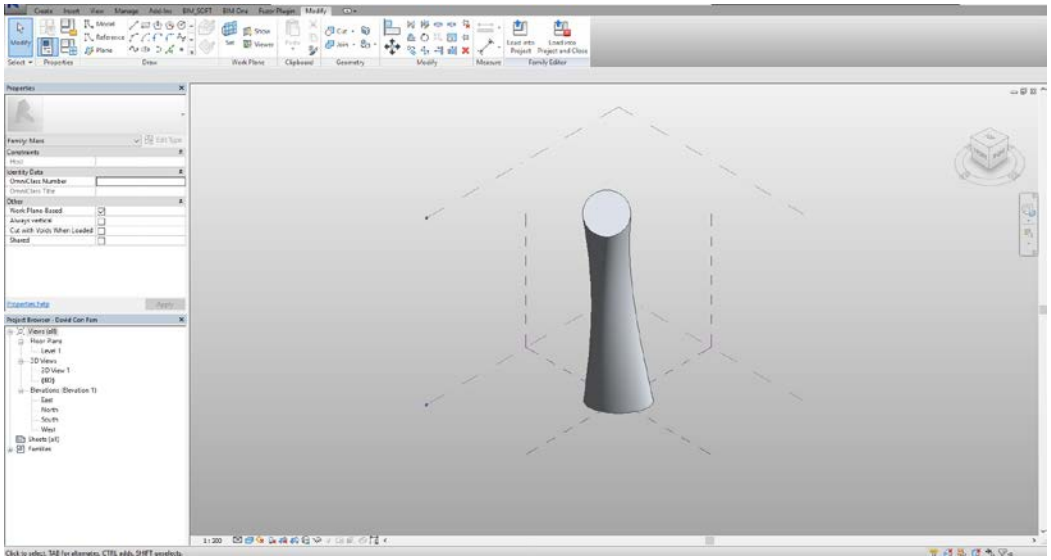


This should be the result

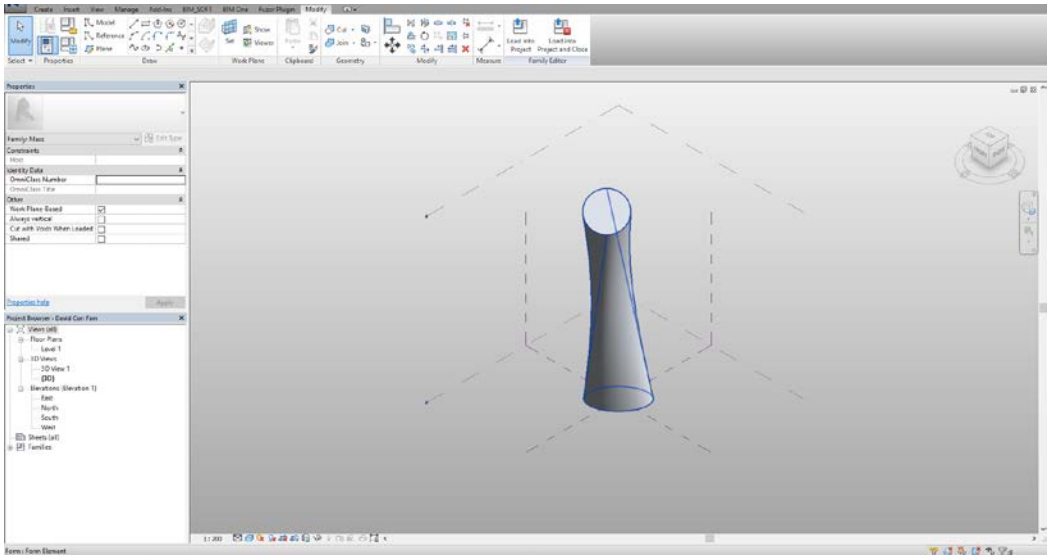


Editing Mass

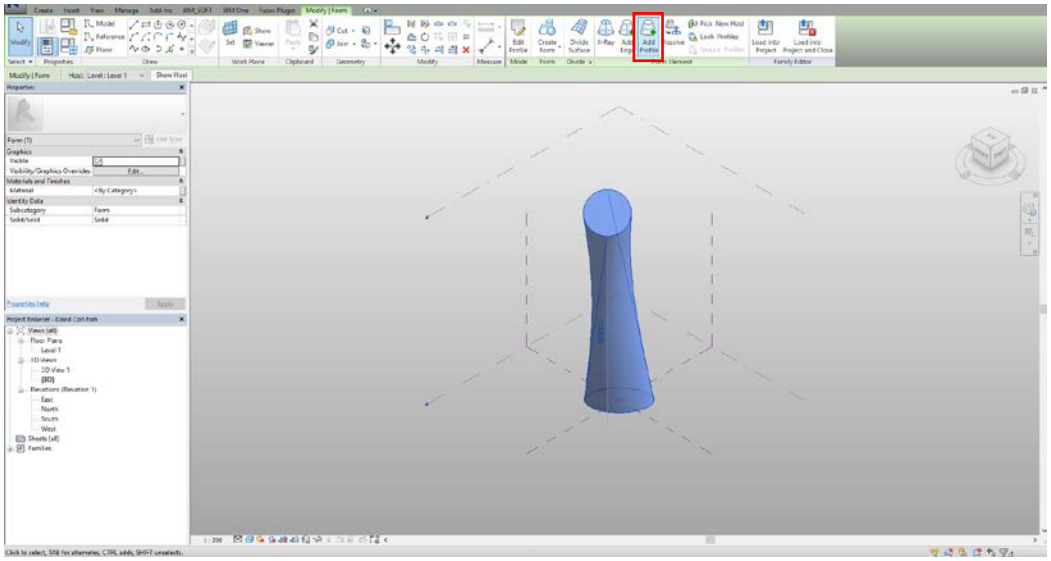
Go back to the **Conceptual Massing Environment**



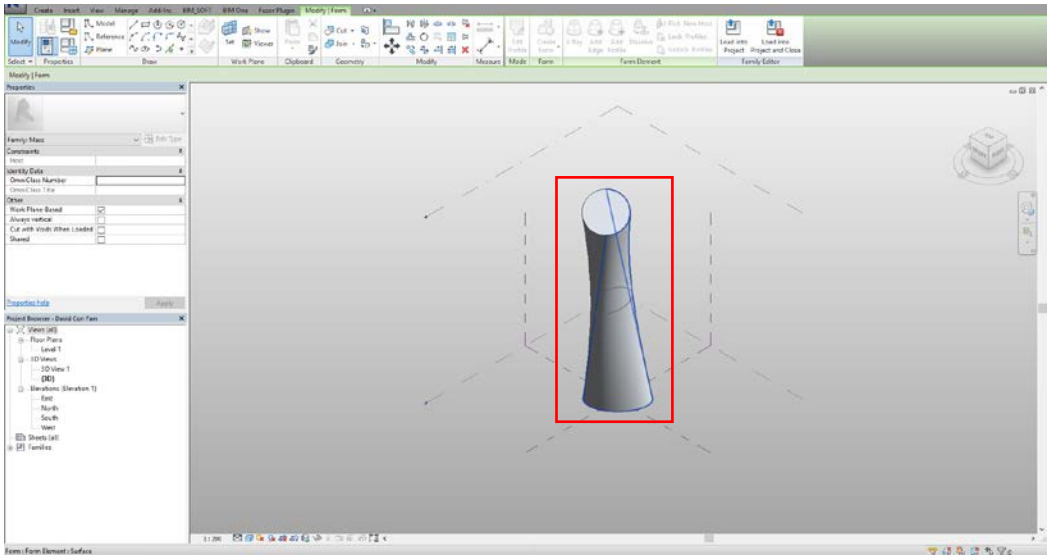
Select the whole **Mass** with the **Tab** key



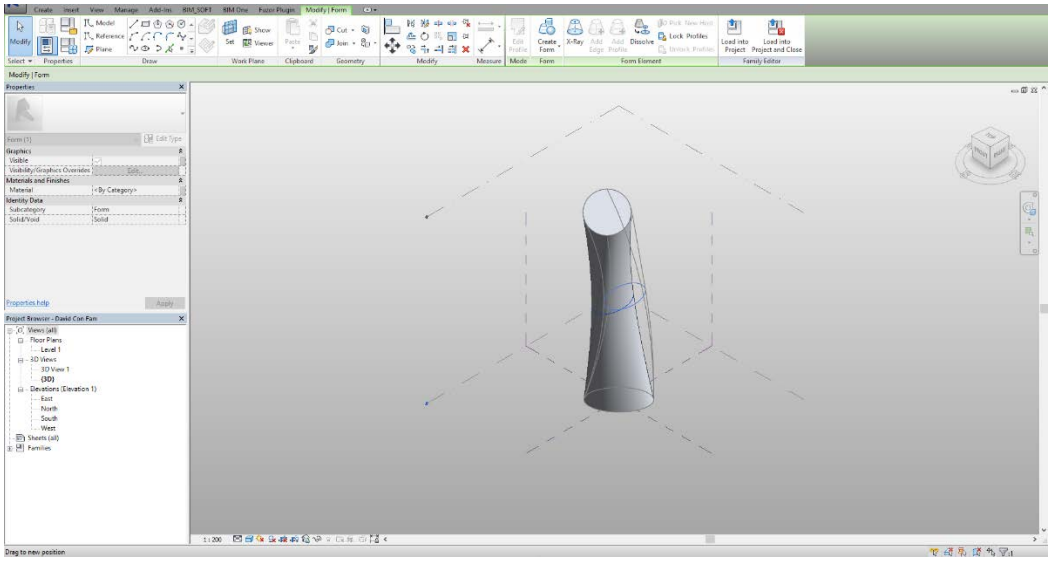
Click on **Add Profile**



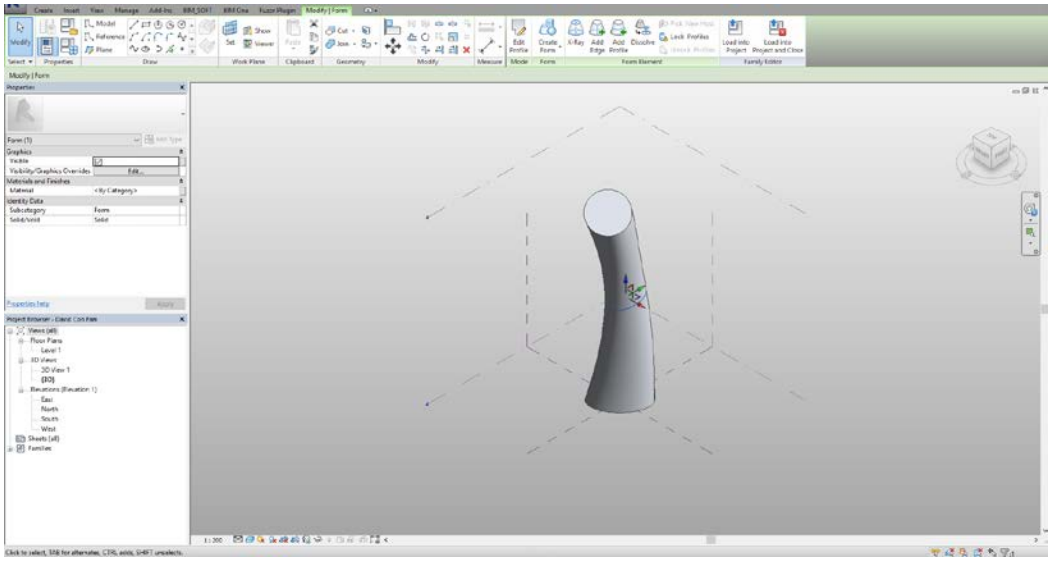
Add Profile to the desired position



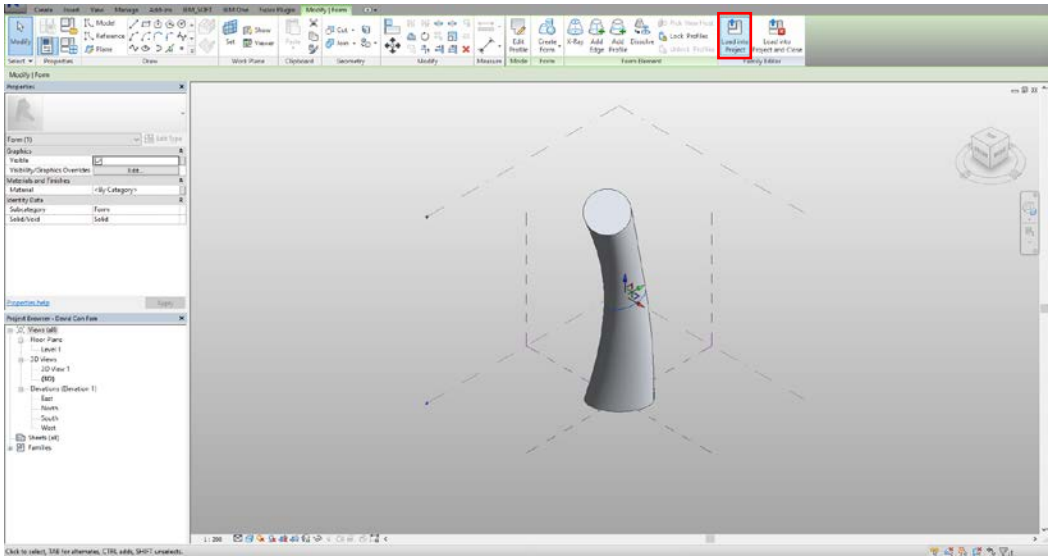
Drag to modify the form



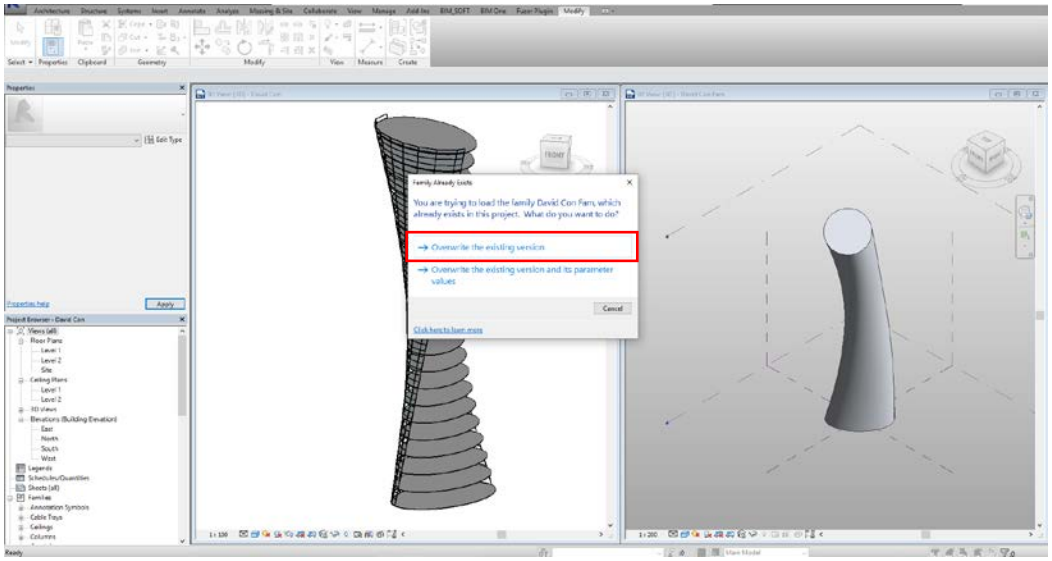
The form can also be edited with the **Dimension Arrows**



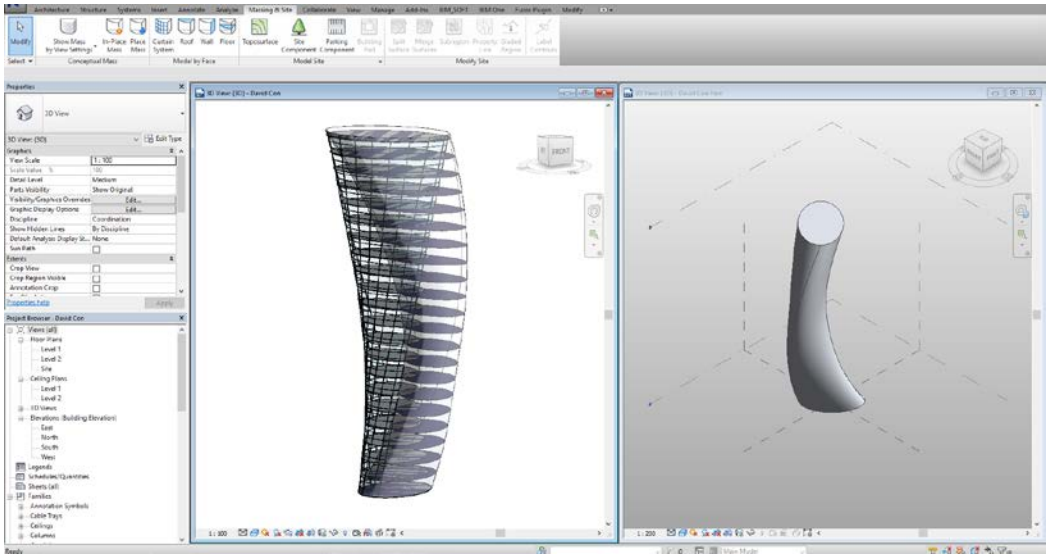
Click on **Load into Project**



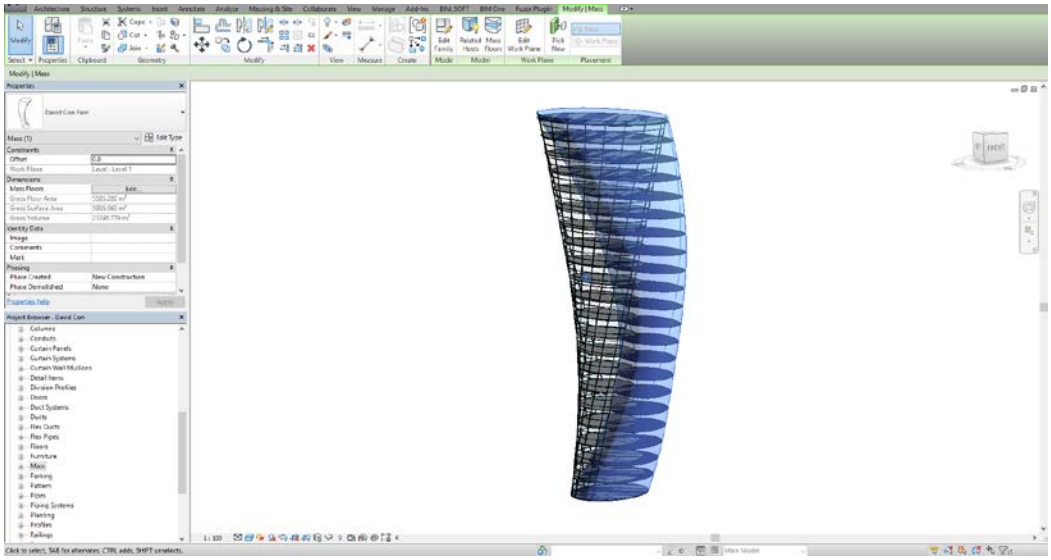
Choose **Overwrite the existing version**



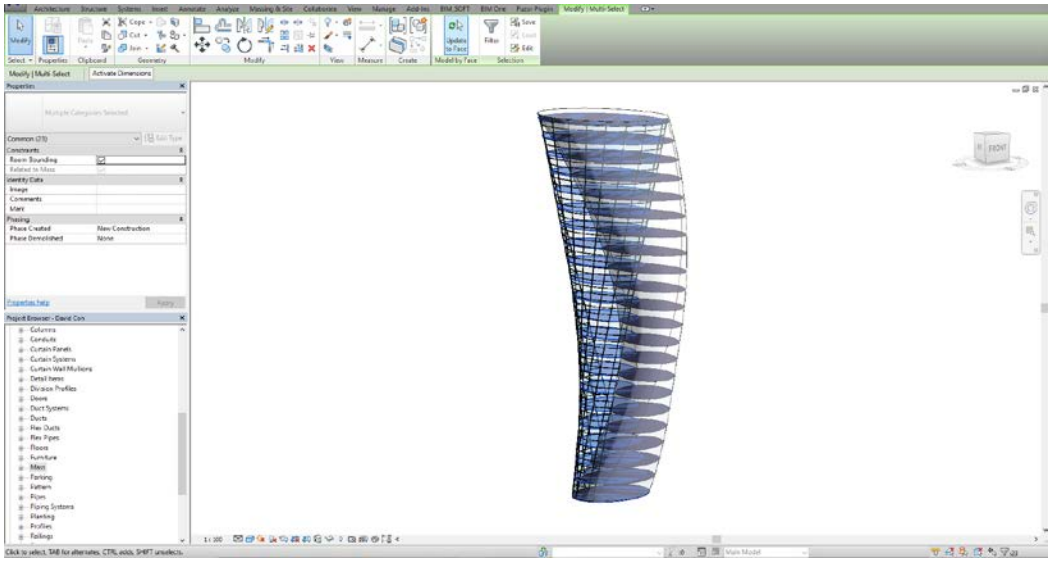
This should be the result



Select the **Mass** then click on **Related Hosts**



Click on **Update to Face**



This should be the result