

HOW-TO GUIDE: BOSCH VIDEO SYSTEMS REVIT FAMILIES

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BOSCH VIDEO SYSTEMS REVIT FAMILIES

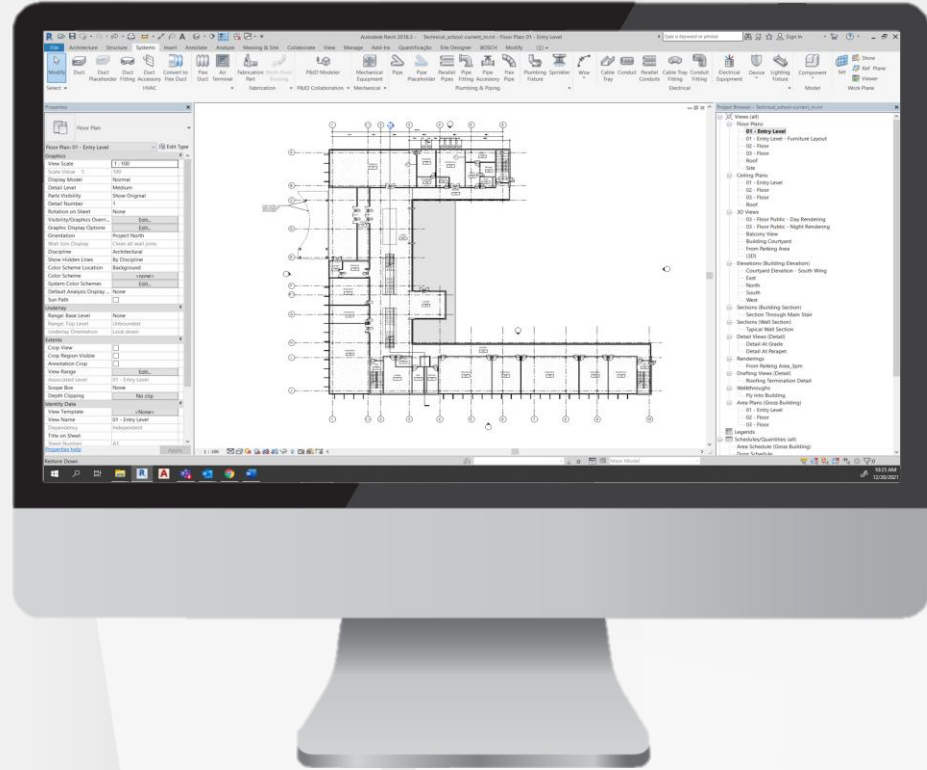
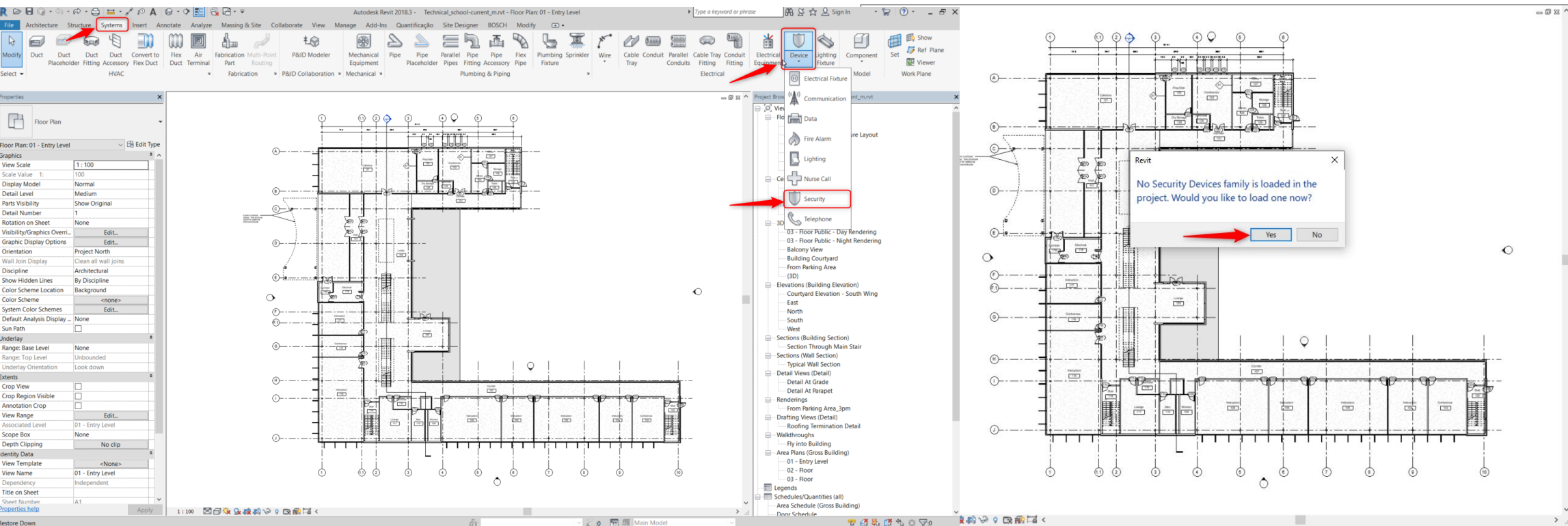


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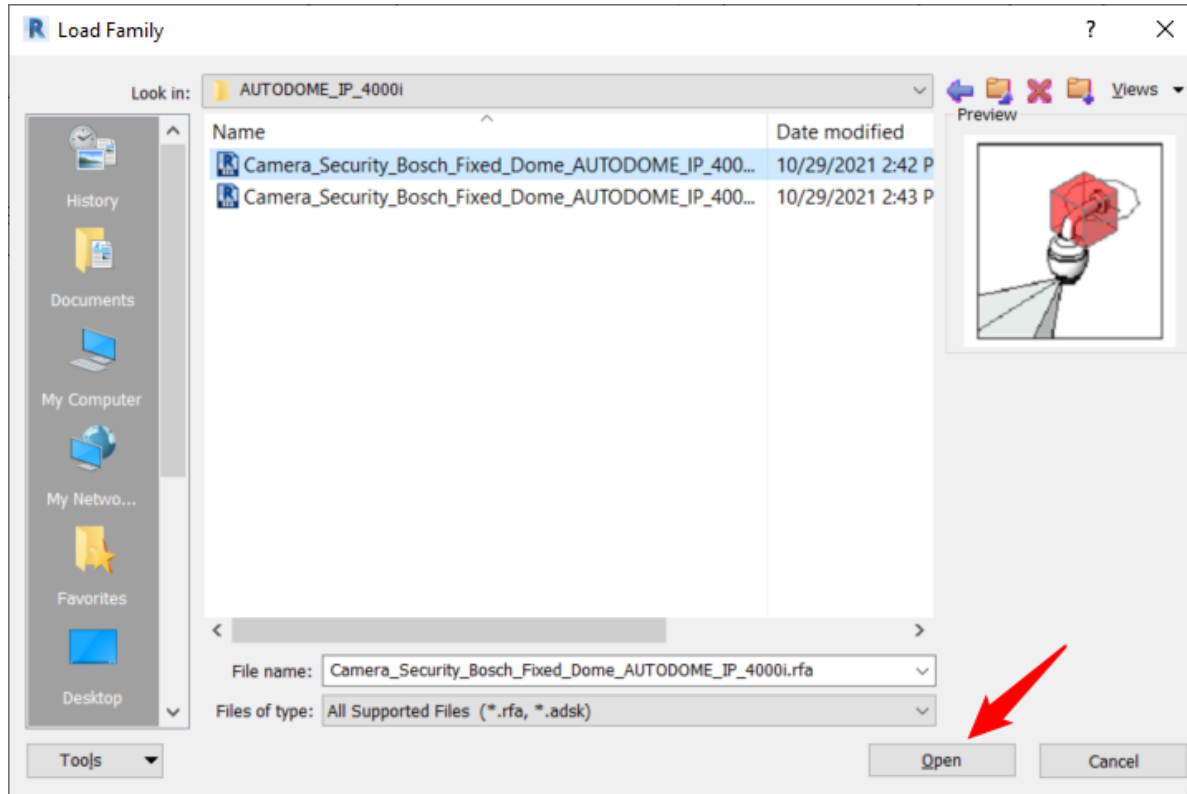
1) Loading a Revit family for a Bosch camera

1. In the ribbon bar, select **Systems > Device > Security**.
2. To load a family, select **Yes**.



1) Loading a Revit family for a Bosch camera

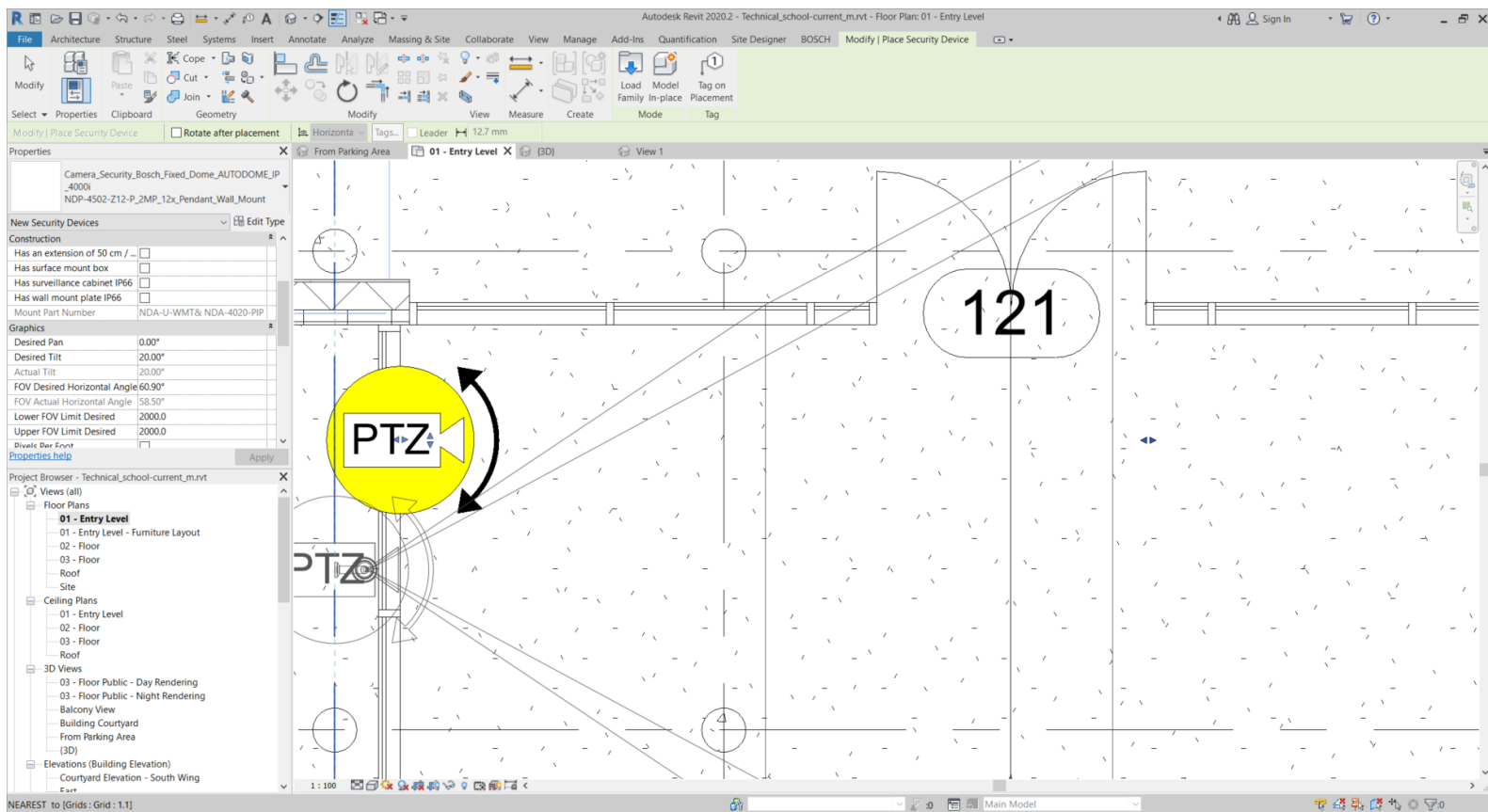
3. Browse to the family that you want to load and click **Open**.



The family is loaded into Revit.

1) Loading a Revit family for a Bosch camera

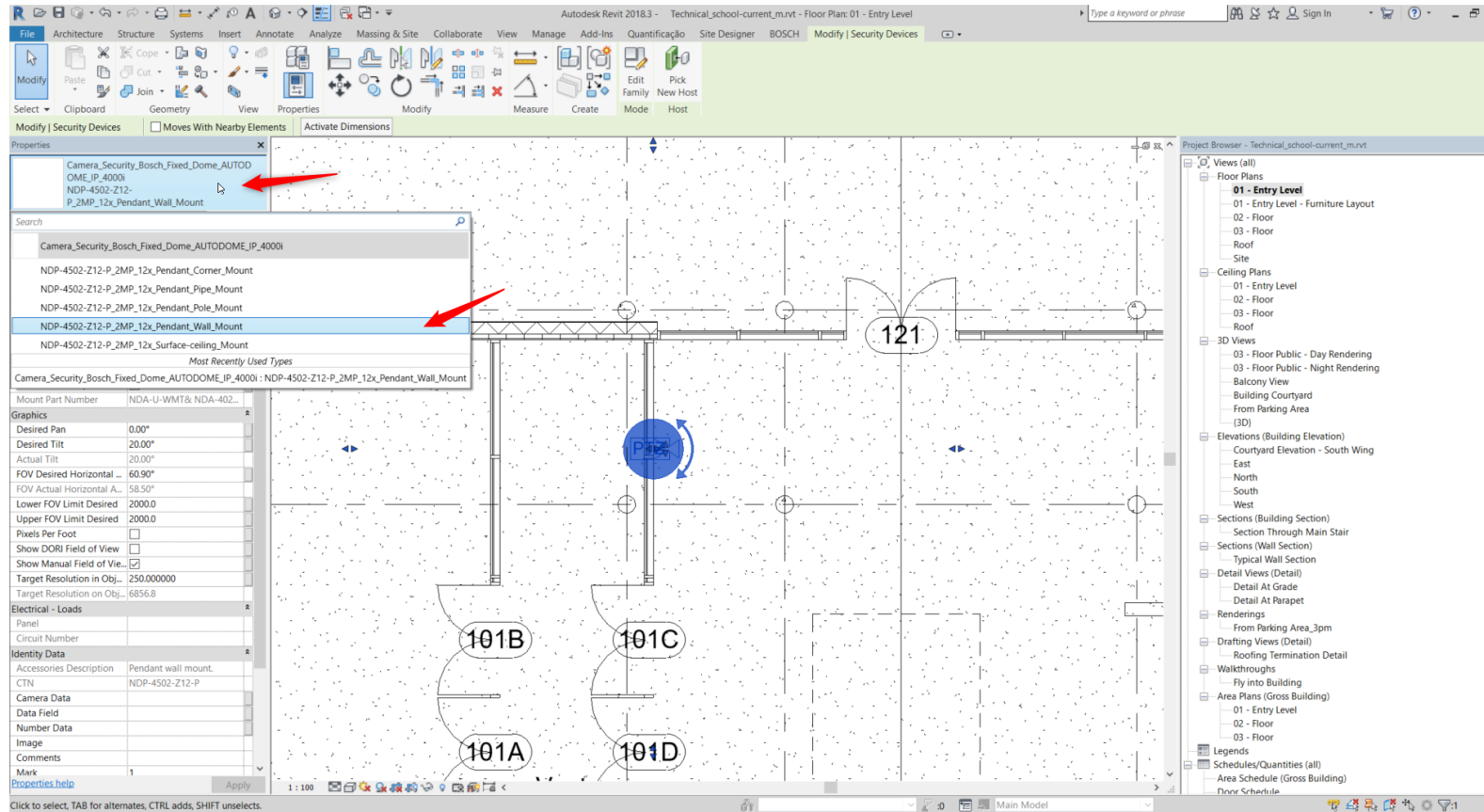
4. Left click to place the family in the desired location.



2) Selecting the mounting type

1. In the **Properties** viewlet select the family.

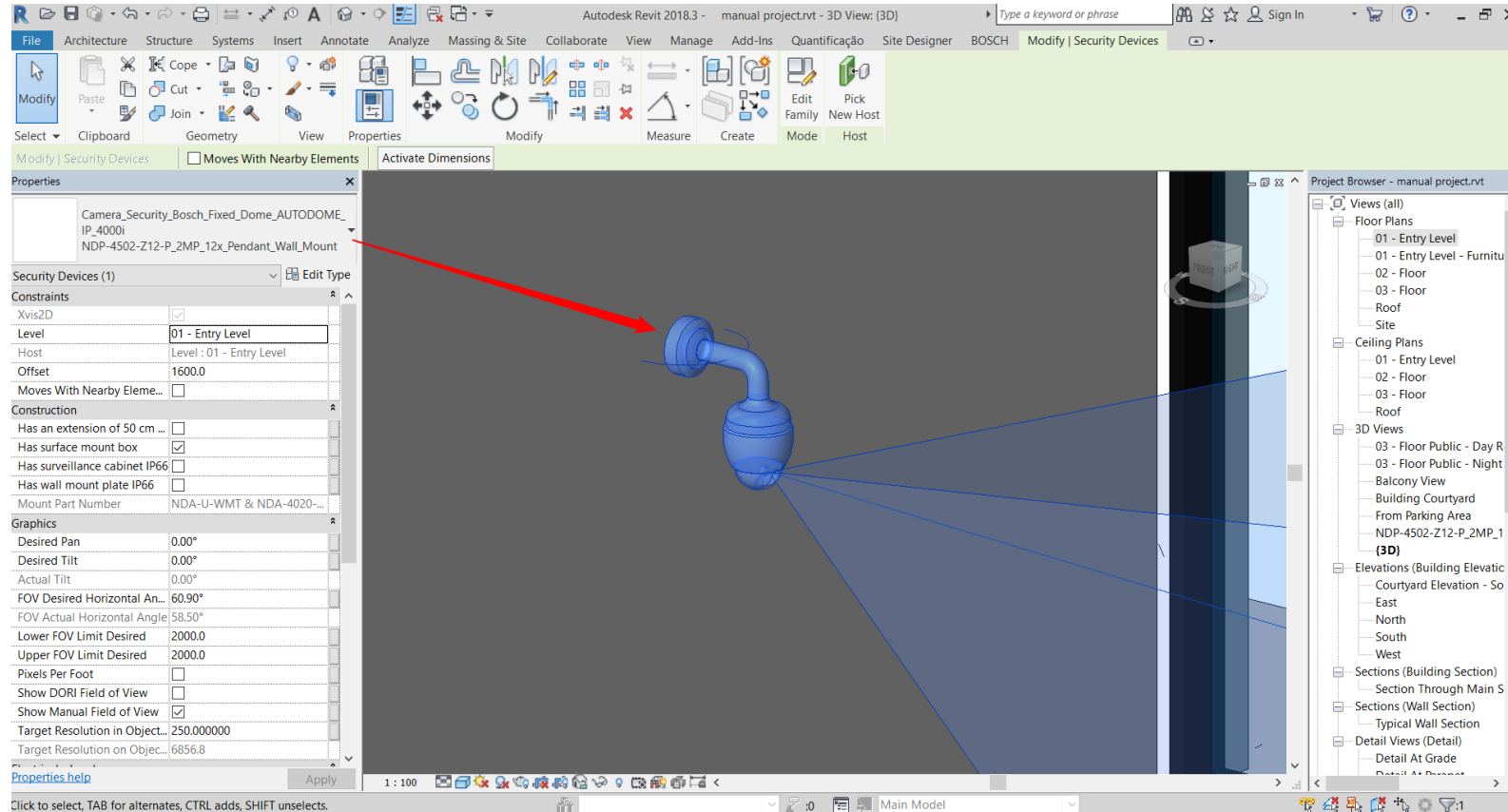
A window opens, showing the different mounting possibilities.



2) Selecting the mounting type

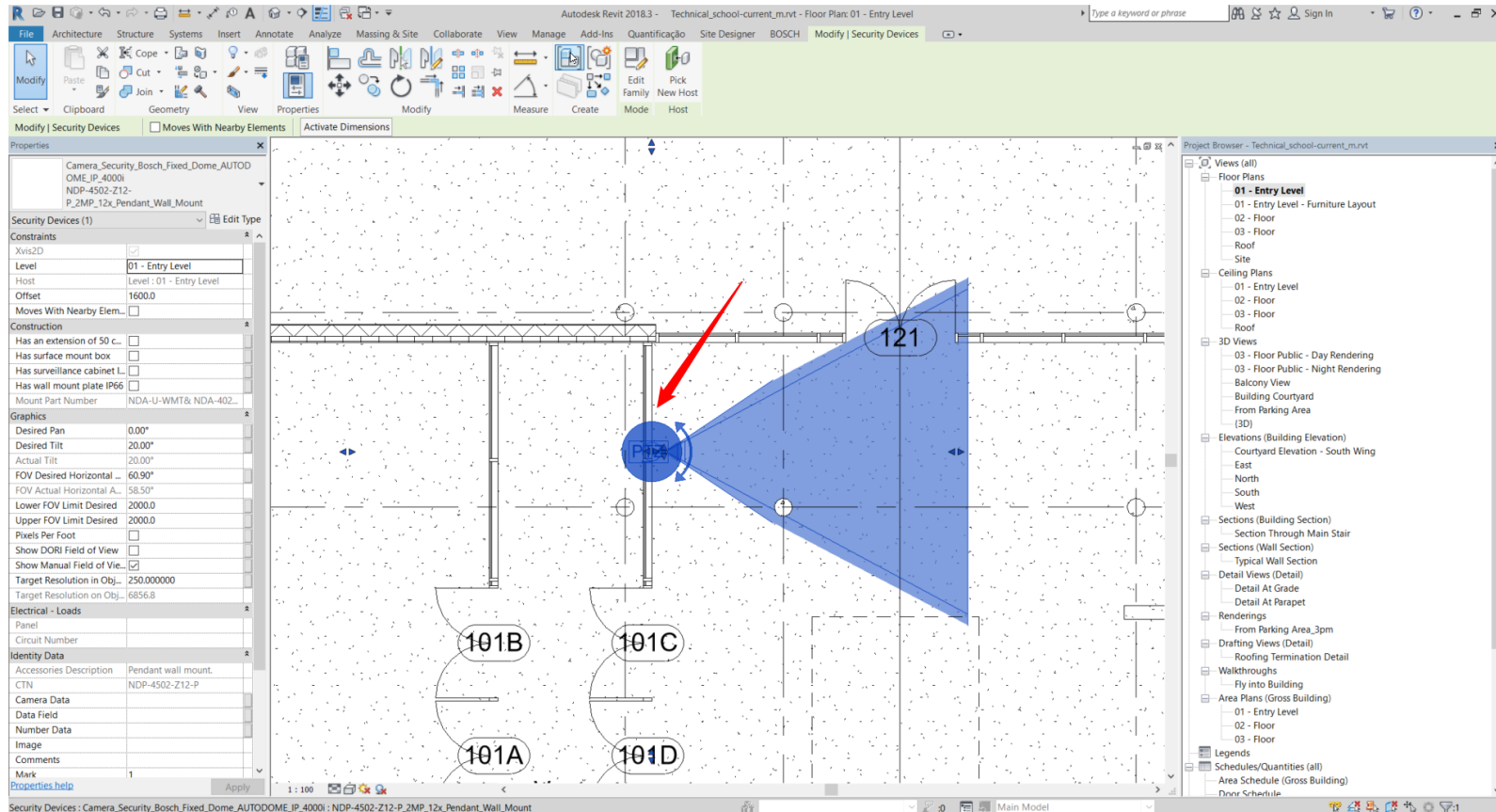
2. Select a mounting option.

The selected mounting option is displayed in the project.



3) Viewing and editing the family data

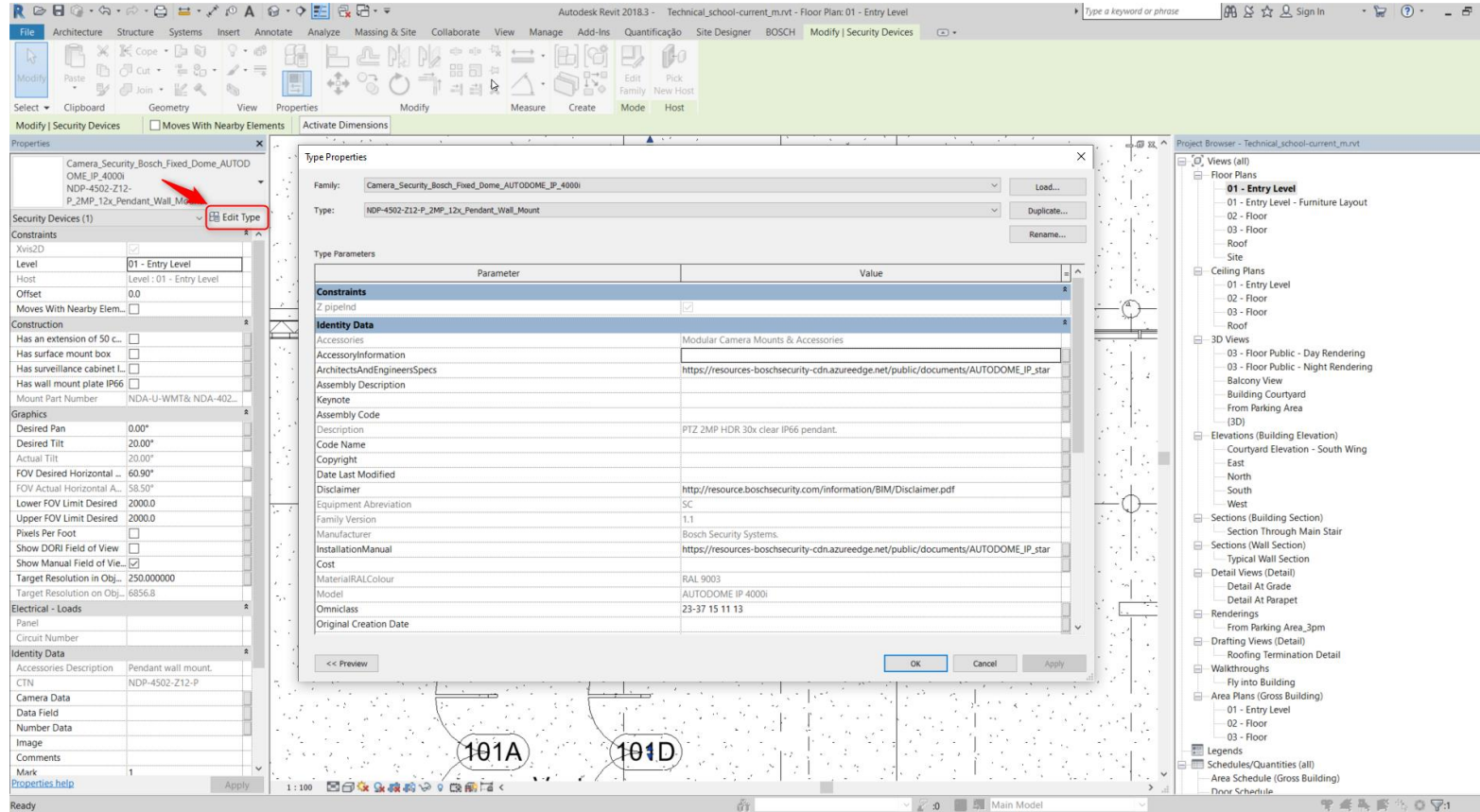
1. Select the family.



3) Viewing and editing the family data

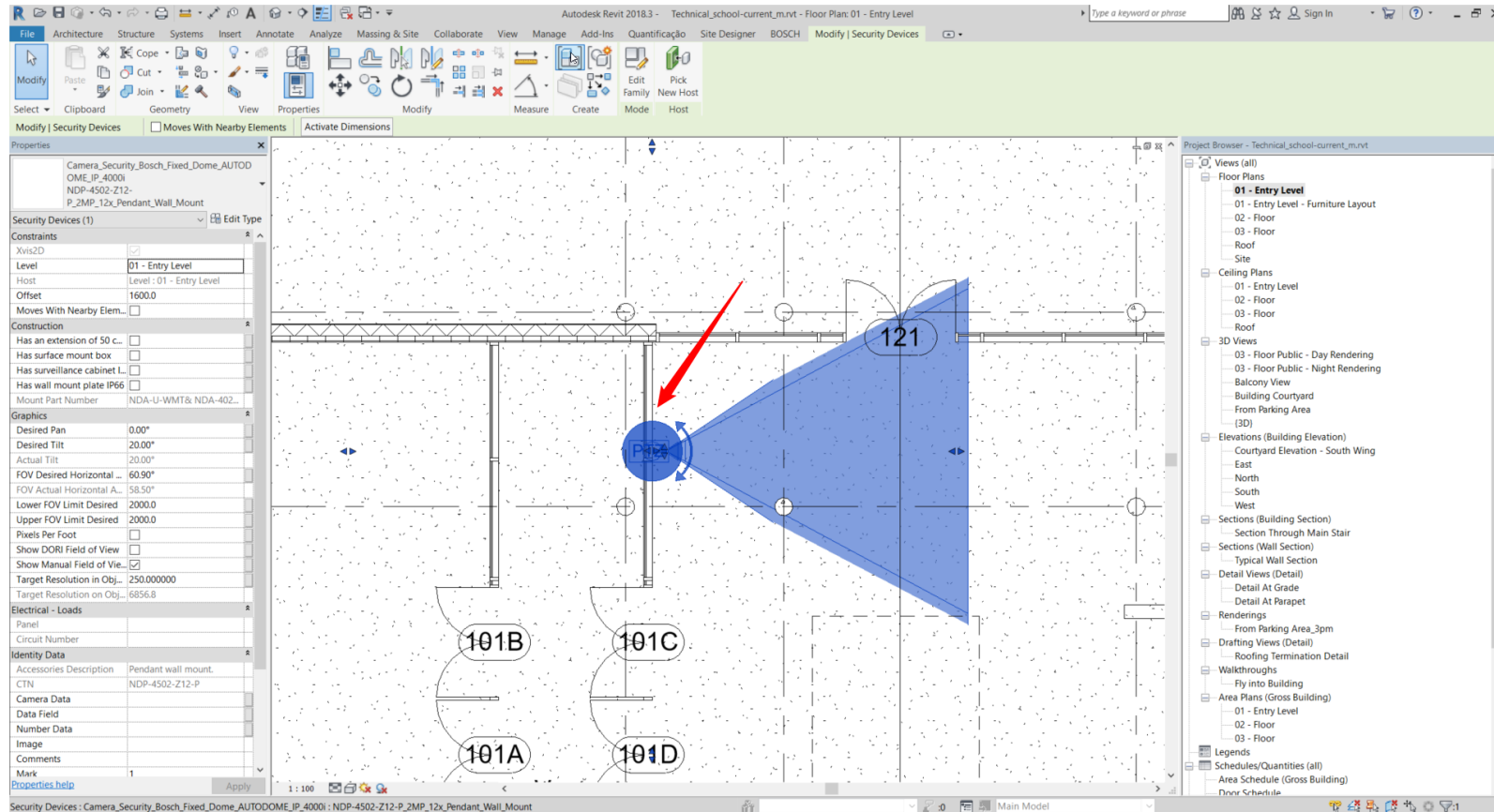
2. In the **Properties** viewlet select **Edit Type**.

The **Type Properties** windows opens and displays **Identity Data** information.



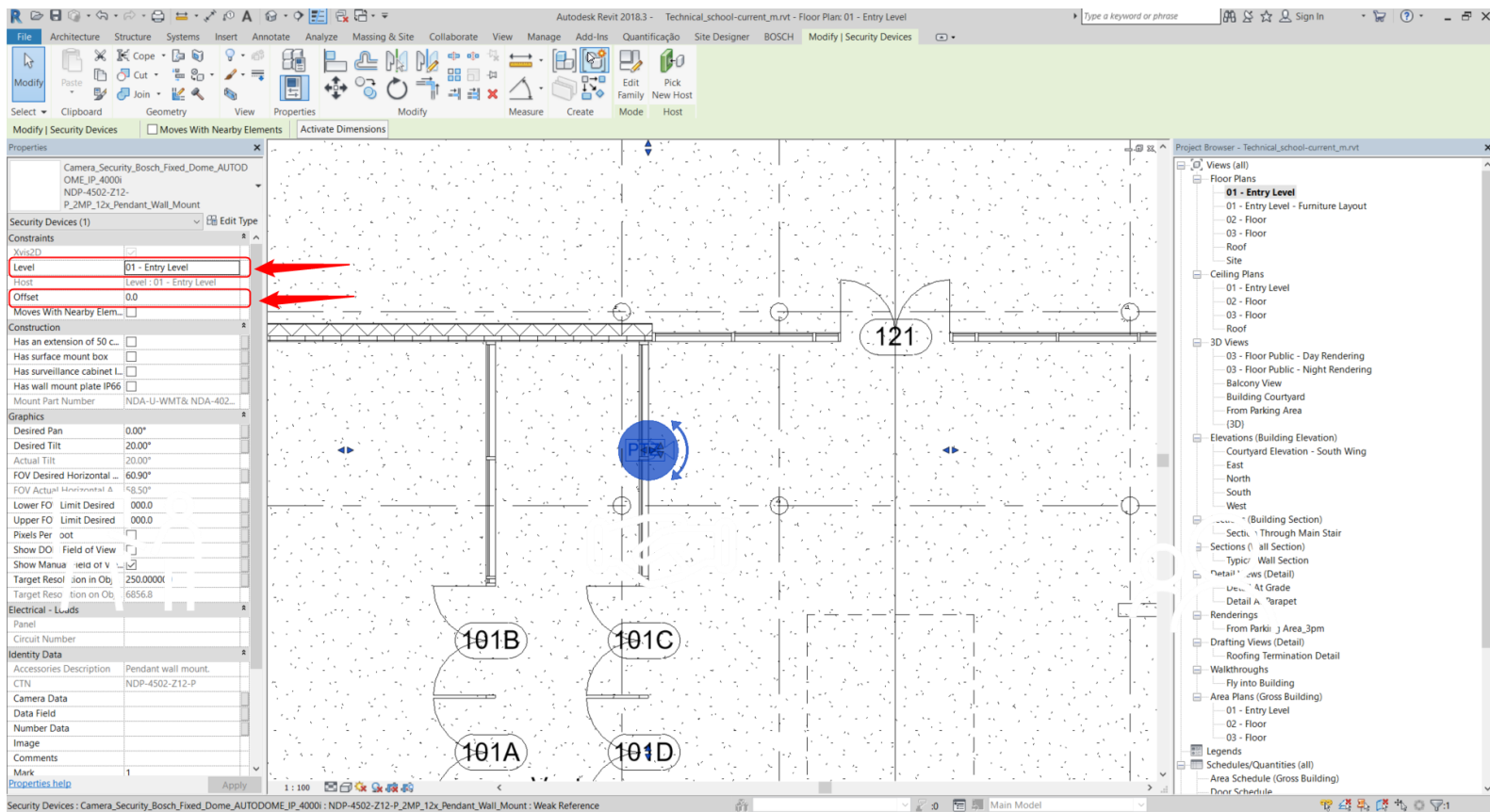
4) Editing the camera height

1. Select the family.



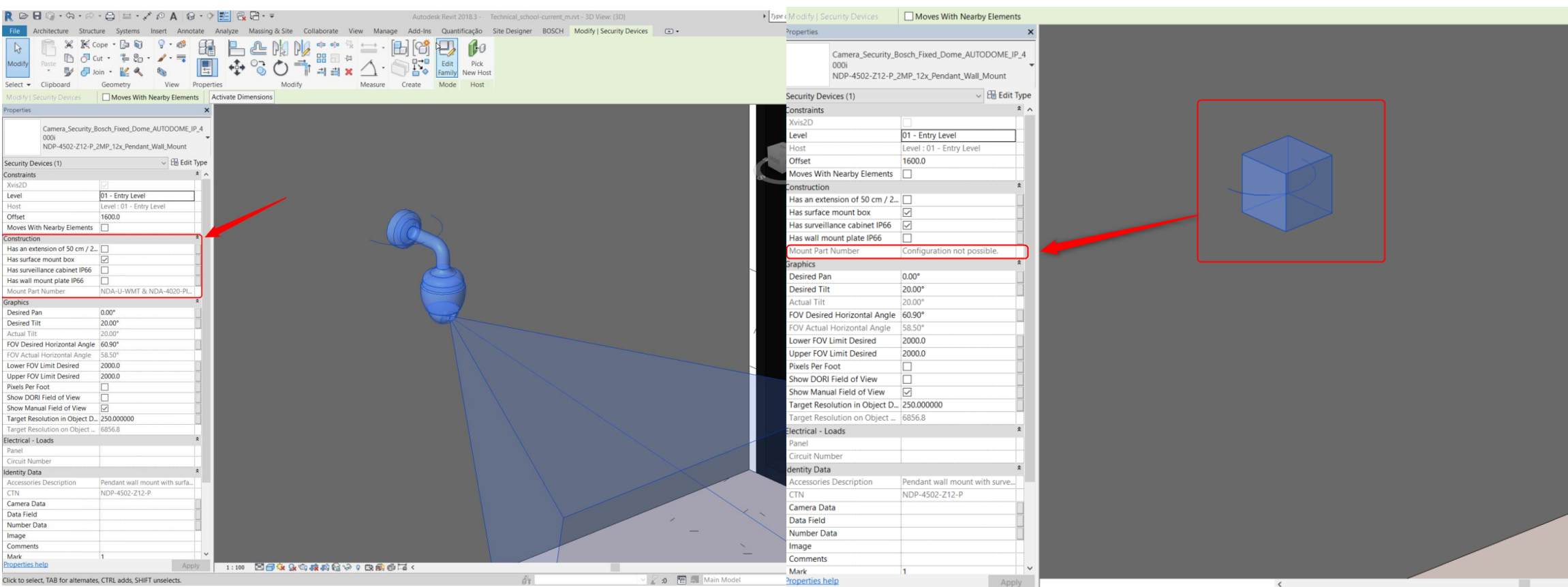
4) Editing the camera height

2. In the **Constraints** viewlet select **Level** to choose the level of the camera.
3. In the **Constraints** viewlet insert **Offset** value and enter the desired height of the camera.



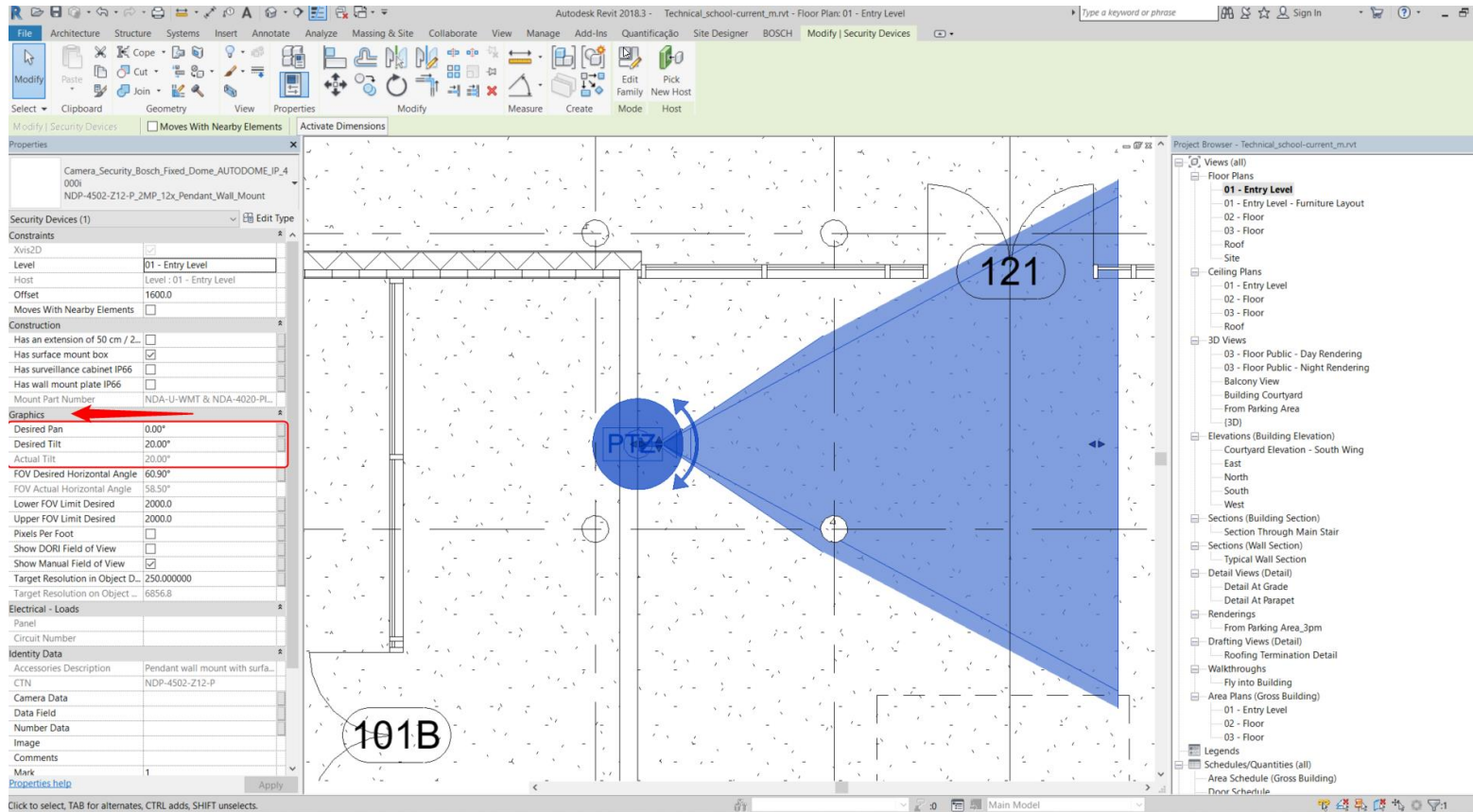
5) Bosch camera accessories selection

1. In the **Properties** viewlet under **Construction** category click on the check box to select an accessory.
In case of incompatibility, **ERROR** message will appear under **Mount Part Number**.



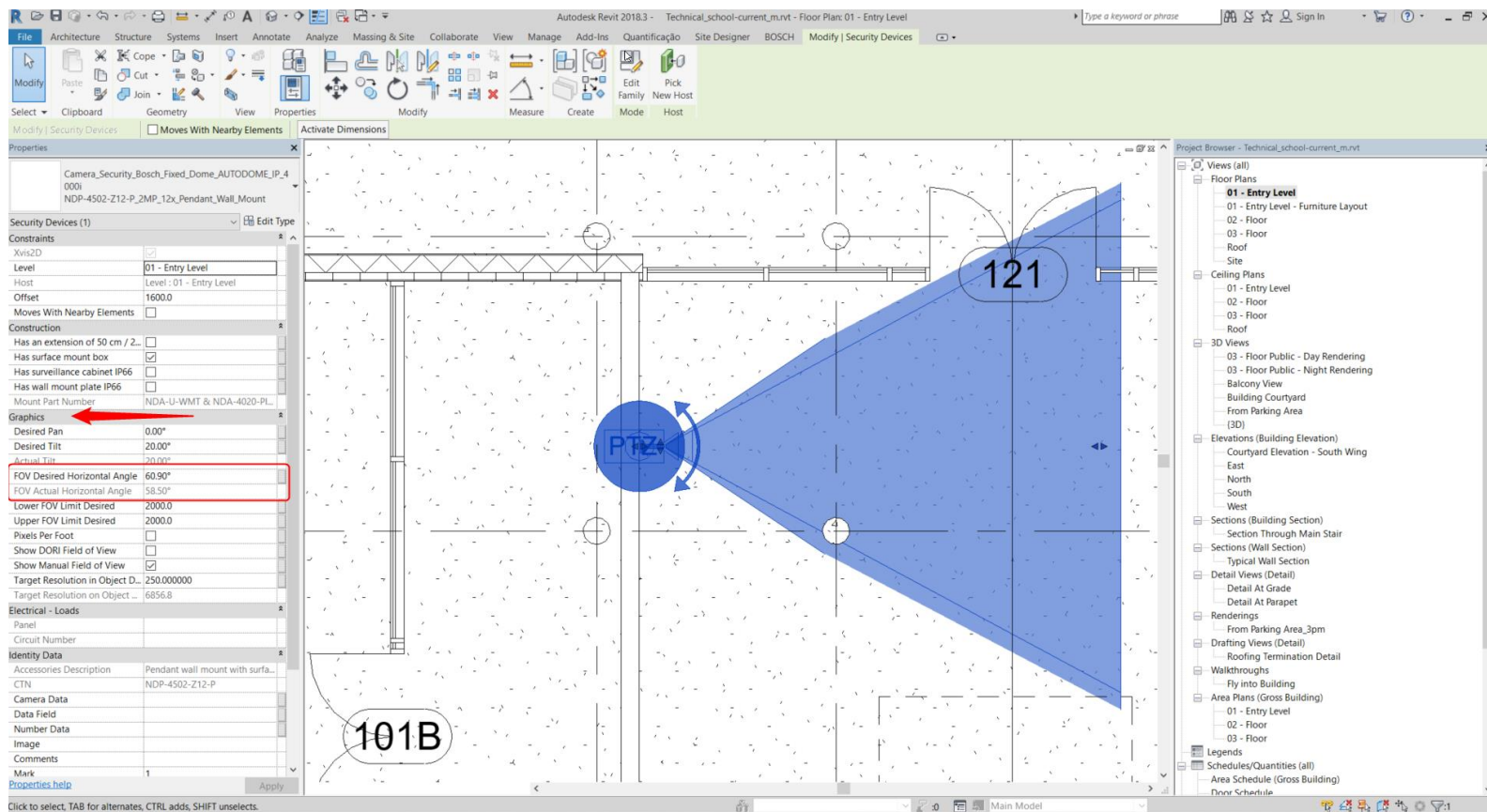
6) Field of view properties

1. In the **Properties** viewlet **Graphics** category insert the desired values for **Tilt** and **Pan**.
In case the inserted value for **Tilt** is not applicable, the appropriate values will appear under **Actual Tilt**.



6) Field of View Properties

2. In the **Properties** viewlet, **Graphics** category, insert the desired value in **FOV Desired Horizontal Angle**.
In case the inserted value for FOV is not applicable, the appropriate value will appear under **FOV Actual Horizontal Angle**.



7) Field of view (graphics panel tabs)

Camera_Security_Bosch_Fixed_Dome_FLEXIDOME_IP_indoor_8000i_2MP_3-9mm
NDV-8502-R_2MP_3-9mm_Pendant_Wall_Mount

Security Devices (1) Edit Type

Construction

Has Pendant pipe mount 11 ...	<input type="checkbox"/>
Has an extension of 50 cm / ...	<input type="checkbox"/>
Has plenum-rated In-ceiling...	<input type="checkbox"/>
Has surface mount box	<input type="checkbox"/>
Has surveillance cabinet IP66	<input type="checkbox"/>
Mount Part Number	NDA-WMT & NDA-8000-PIPW

Graphics

Desired Pan	0.00°
Desired Tilt	20.00°
Actual Tilt	20.00°
FOV Desired Horizontal Angle	117.00°
FOV Actual Horizontal Angle	117.00°
Lower FOV Limit Desired	2000.0
Upper FOV Limit Desired	2000.0
Pixels Per Foot	<input type="checkbox"/>
Show DORI Field of View	<input type="checkbox"/>
Show Manual Field of View	<input checked="" type="checkbox"/>
Target Resolution in Object ...	250.000000
Target Resolution on Object...	2353.2
Upright Mode	<input type="checkbox"/>

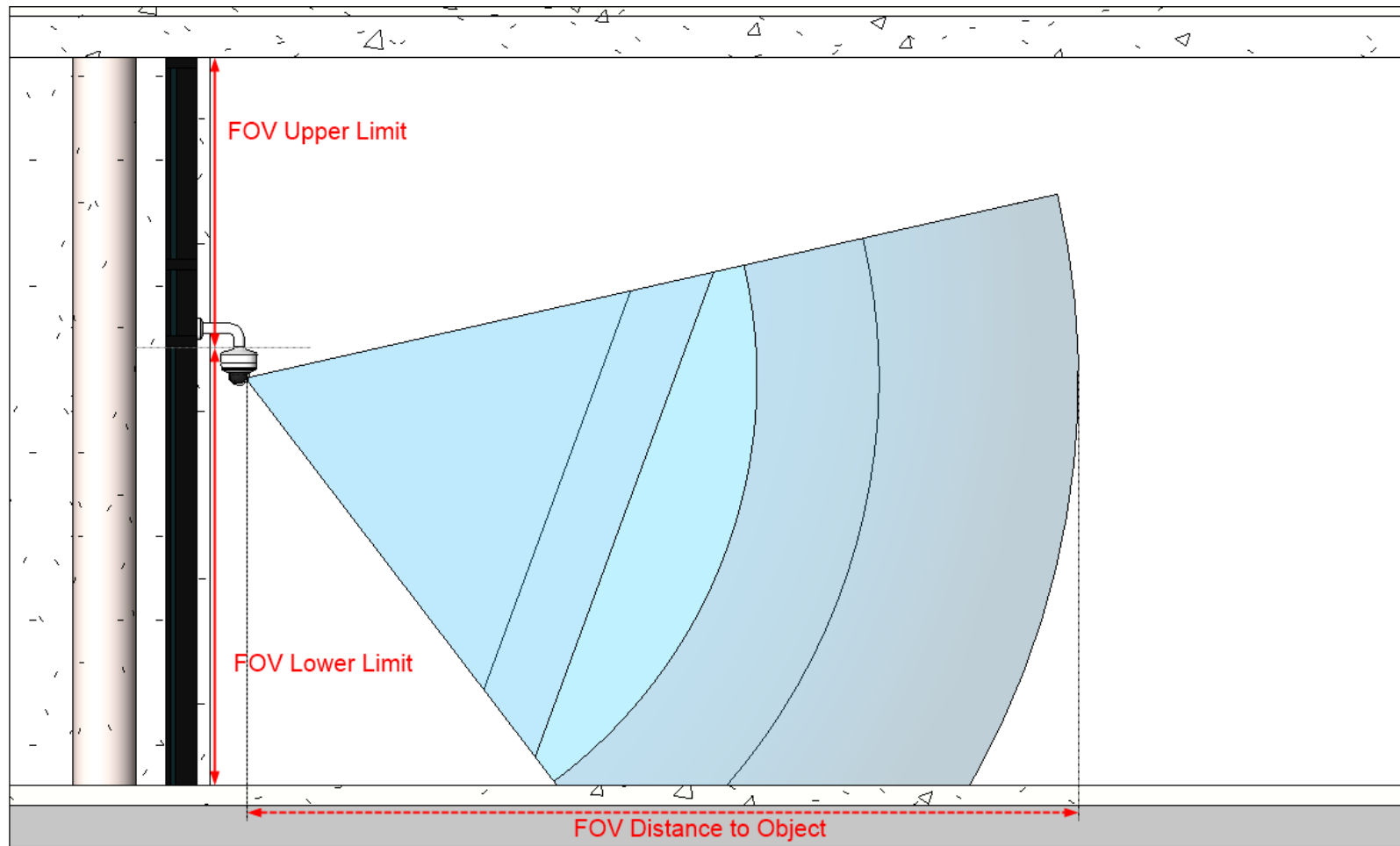
Electrical - Loads

Panel	
Circuit Number	

[Properties help](#) Apply

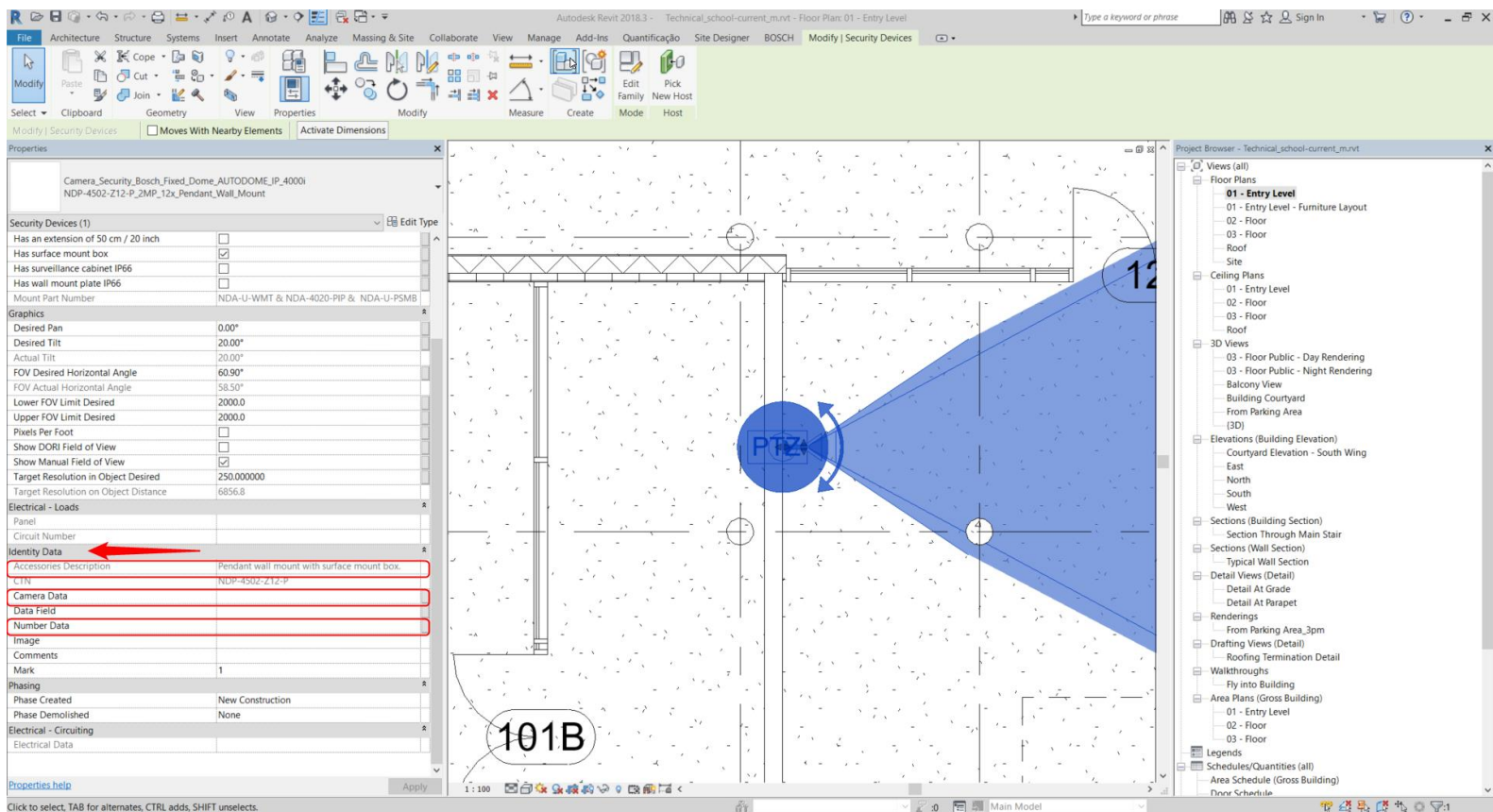
1. **Desired pan:** controls the FOV rotation on the floorplan/XY plan, using Z-axis as its center point
2. **Desired tilt:** controls the FOV tilting angle XY plan
3. **FOV Desired horizontal angle:** controls the aperture angle for the FOV of the camera, and is restricted by the lens limitations
4. **FOV Actual Horizontal angle:** shows the current FOV angle based on Desired FOV horizontal angle and lens restrictions
5. **Lower FOV Limit Desired:** the distance where the FOV Visualization is cut off below the camera
6. **Upper FOV Limit Desired:** the distance where the FOV Visualization is cut off above the camera
7. **Pixels per foot:** converts the units from metric to imperial
8. **Show Dori Field of view:** controls the visibility for the DORI FOV, DORI FOV indicate the distance that camera is covering to Detect, Observe, Recognize, and Identify. By pulling the arrows of the DORI FOV, the user will be able to visualize the maximum coverage of the camera
9. **Show Manual Field of view:** controls the visibility for the manual FOV
10. **Target Resolution in Object Desired:** controls the resolution, in pixels per meter, establishing a bound for the image resolution
11. **Target resolution on object distance:** displays in meters the distance limit for the identification of elements using the specific target resolution desired
12. **Upright Mode:** rotates the FOV from horizontal to vertical position, 90° rotation using the Y-axis as its center point

7) Field of view (graphics panel tabs)



8) Viewing camera data

1. In the **Properties** viewlet > **Identity Data** category, the **Accessory Description** shows the selected accessories for the camera.
2. Under **Camera Data** and **Number Data** insert a custom name for the 3D View that will be generated with Bosch add-in.



9) 3D view creation

1. Install Revit (Bosch_3D_View_Creator) add-in.
The **Bosch** tap will appear in the **Ribbon**.
2. To generate a 3D view displaying the field of view for Bosch camera, click on Bosch create 3D view, then click on the camera.
The 3D view will pop up on the screen.

