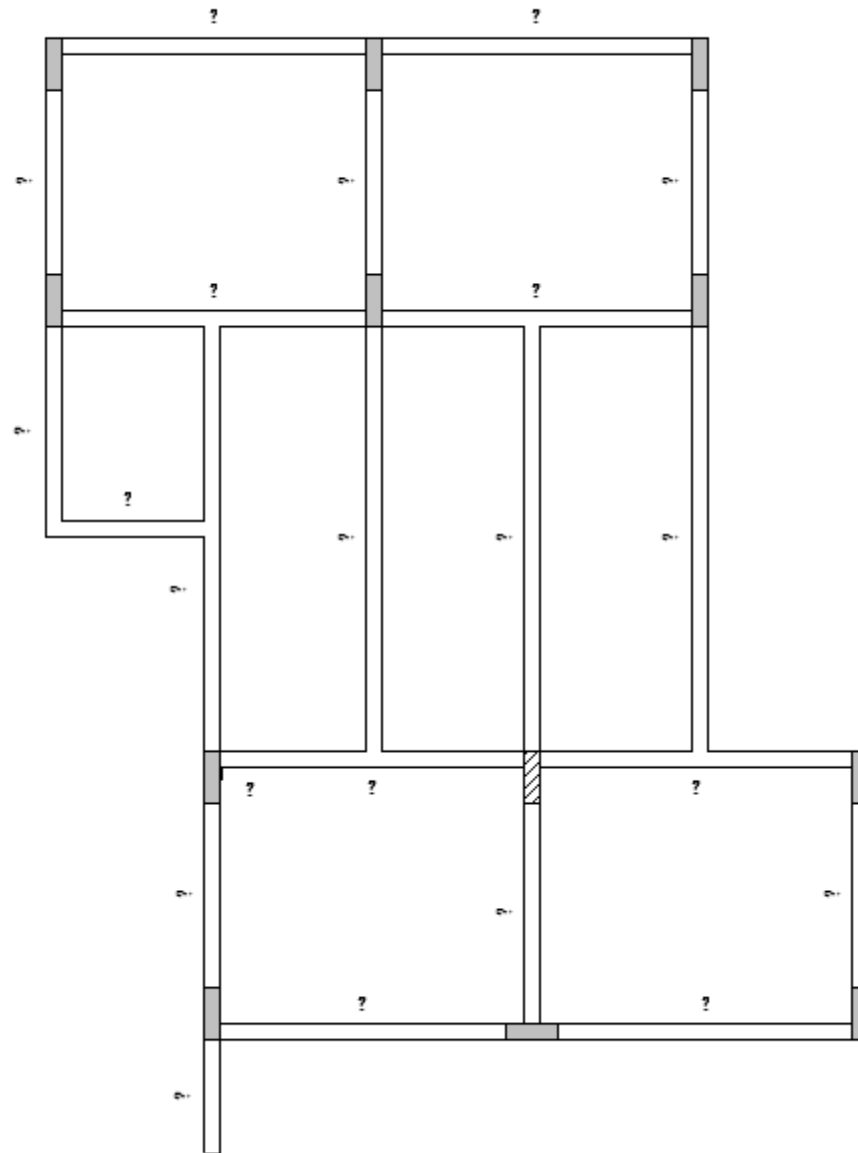


# BEAM ANNOTATION AUTOMATION



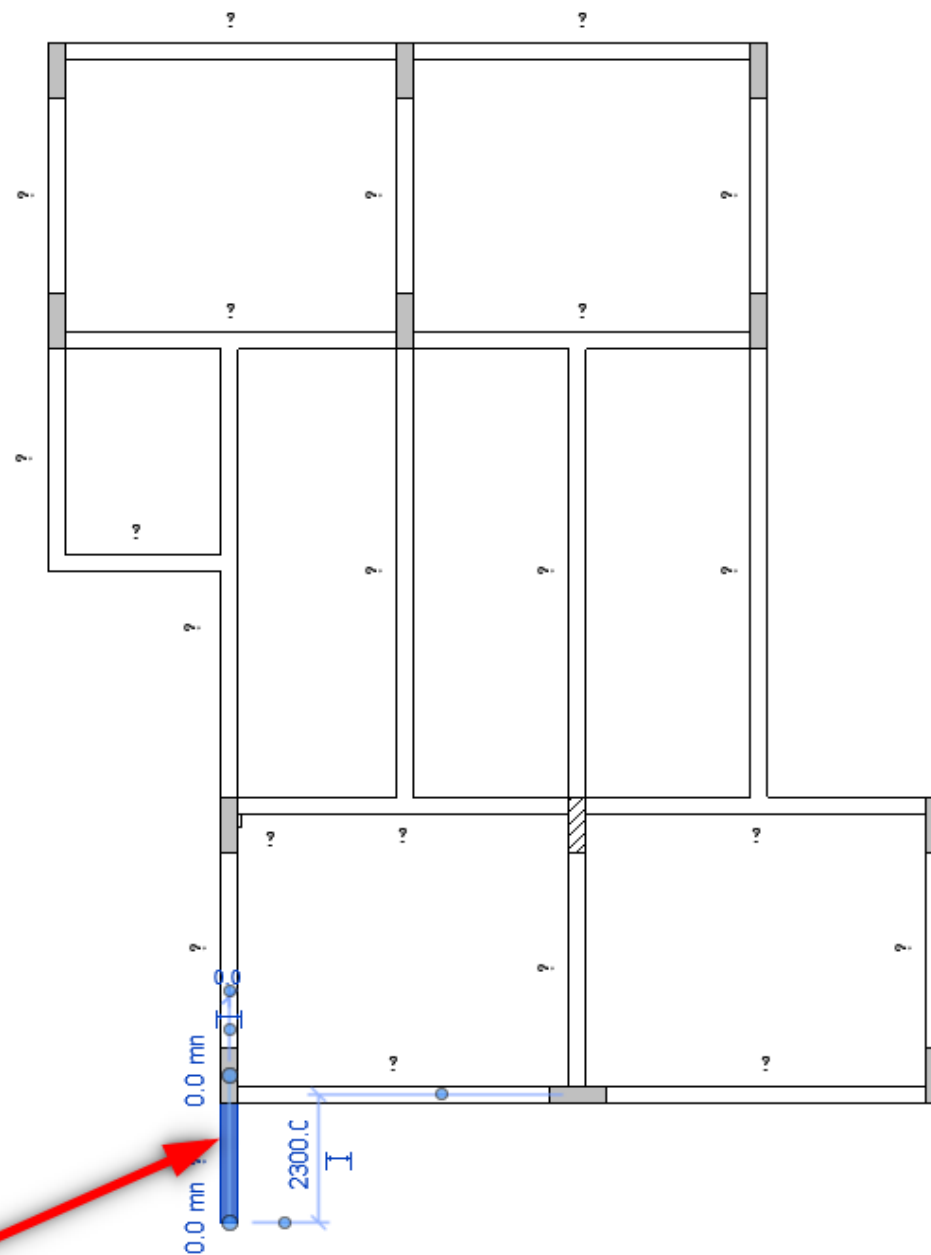
Assign Tags to all Structural Framing  
that contains "Mark" parameter

M\_Concrete-Rectangular  
Beam  
300x900

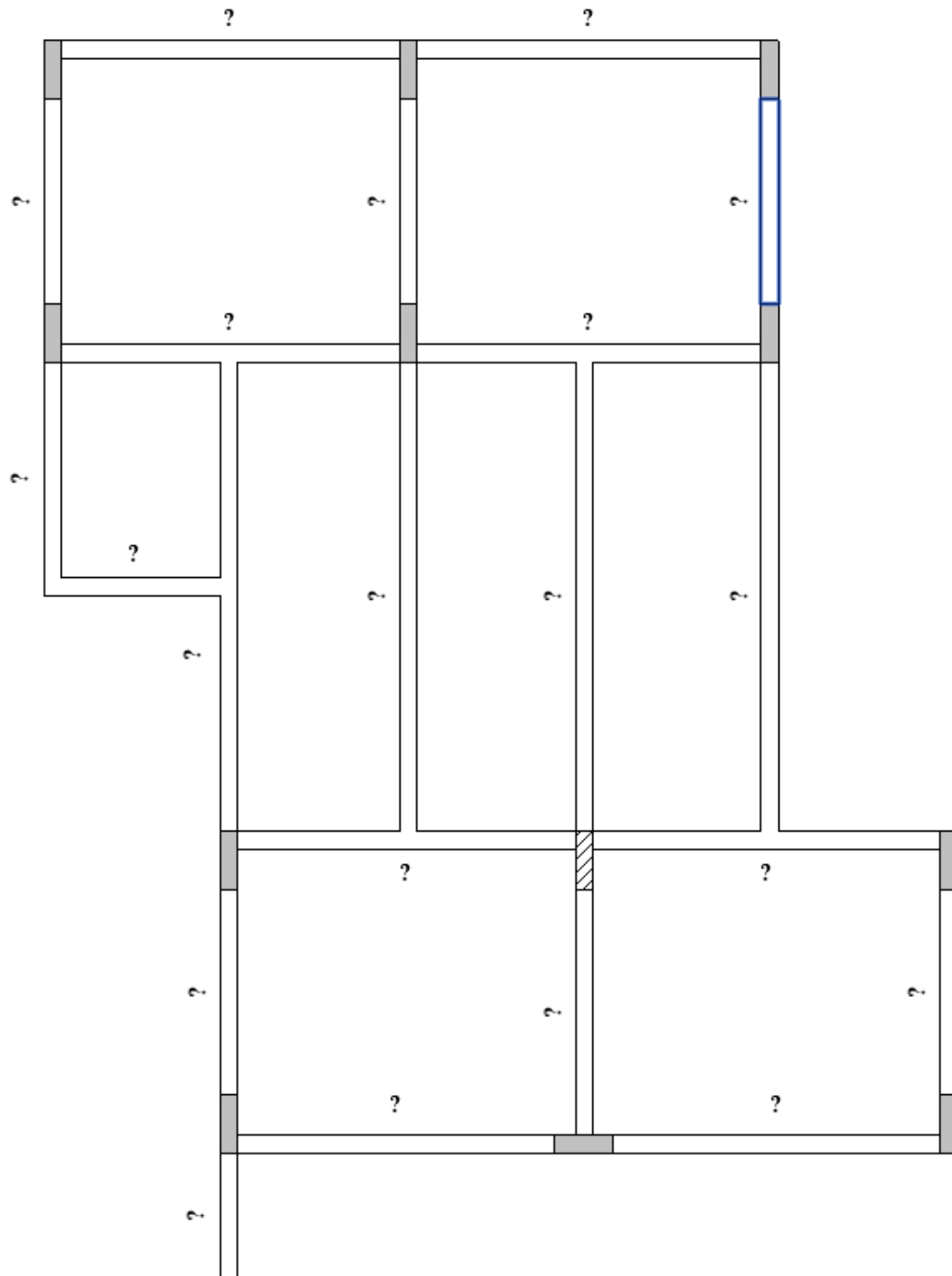
Structural Framing (C) Edit Type

Identity Data

Image	
Comments	
Mark	
Is Cantilever	y



Assign 'y' to "Is Cantilever" Parameter to skip it from numbering



**Dynamo Player**

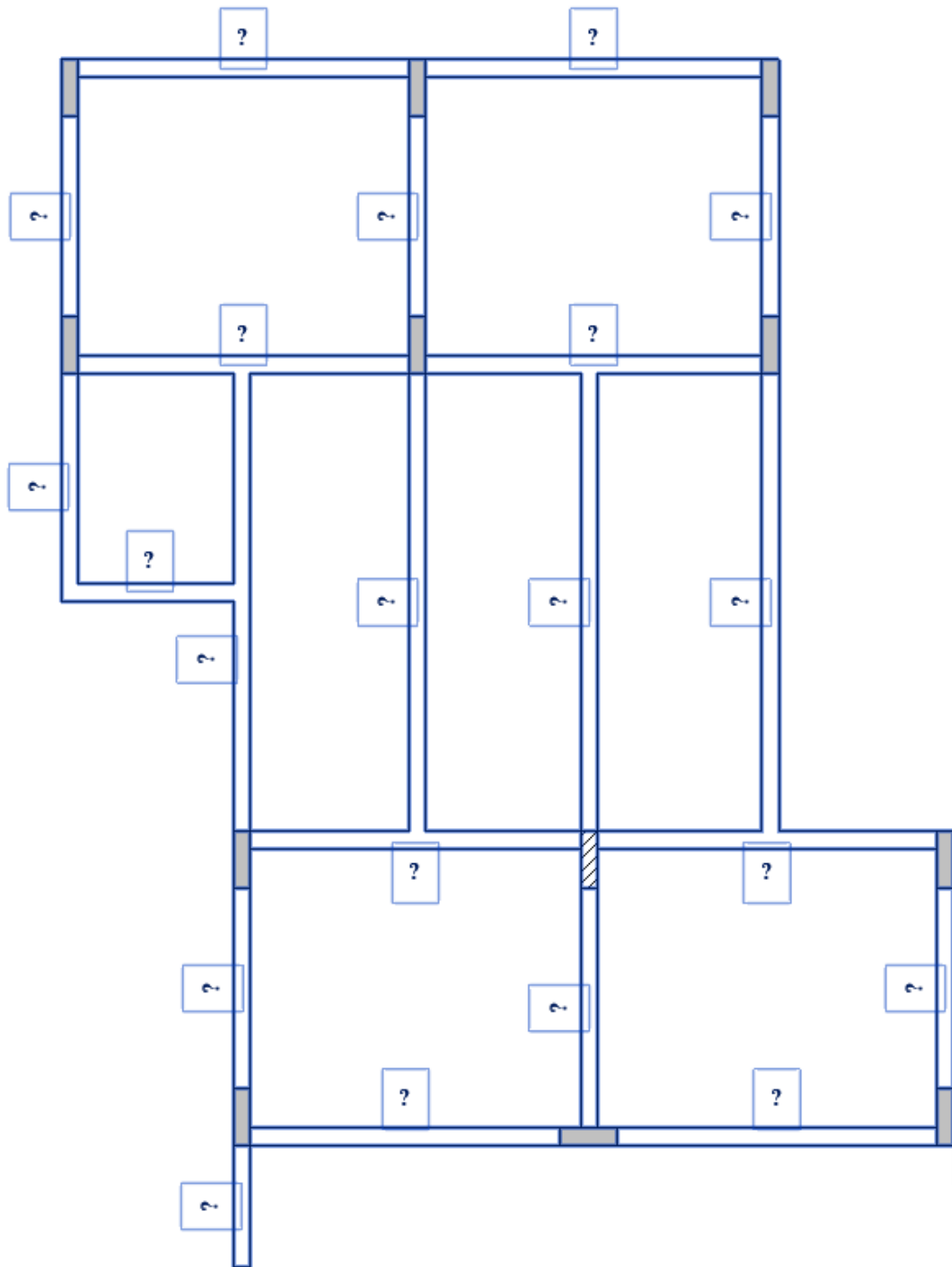
**Beam1\_RUN BEAM ANNOTATION SCRIPT ON ALL BEAMS** Ready

- Enter name for Cantilever Beams!! :
- Enter Suffix for the steel beam!! :
- Enter Level Number! :
- Enter Suffix for Horizontal beam! :
- Enter Suffix for Vertical Beams!! :
- Number Slider For horizontal Beams :
- Number Slider Gor Vertical Beams :
- Select Model Elements :

Count: 8 [...show more](#)

**Assign Values as required**

3rd level\_Manilla demonstration\_SWAMI\_VISHWA.rvt



## Dynamo Player



Beam1\_RUN BEAM ANNOTATION SCRIPT ON ALL BEAMS

Inputs needed

Enter name for Cantilever Beams!! :

CANT.

Enter Suffix for the steel beam!! :

ST

Enter Level Number! :

Waiting for selection in Revit

Select all Elements

Number Slider For horizontal Beams :

1

Number Slider For Vertical Beams :

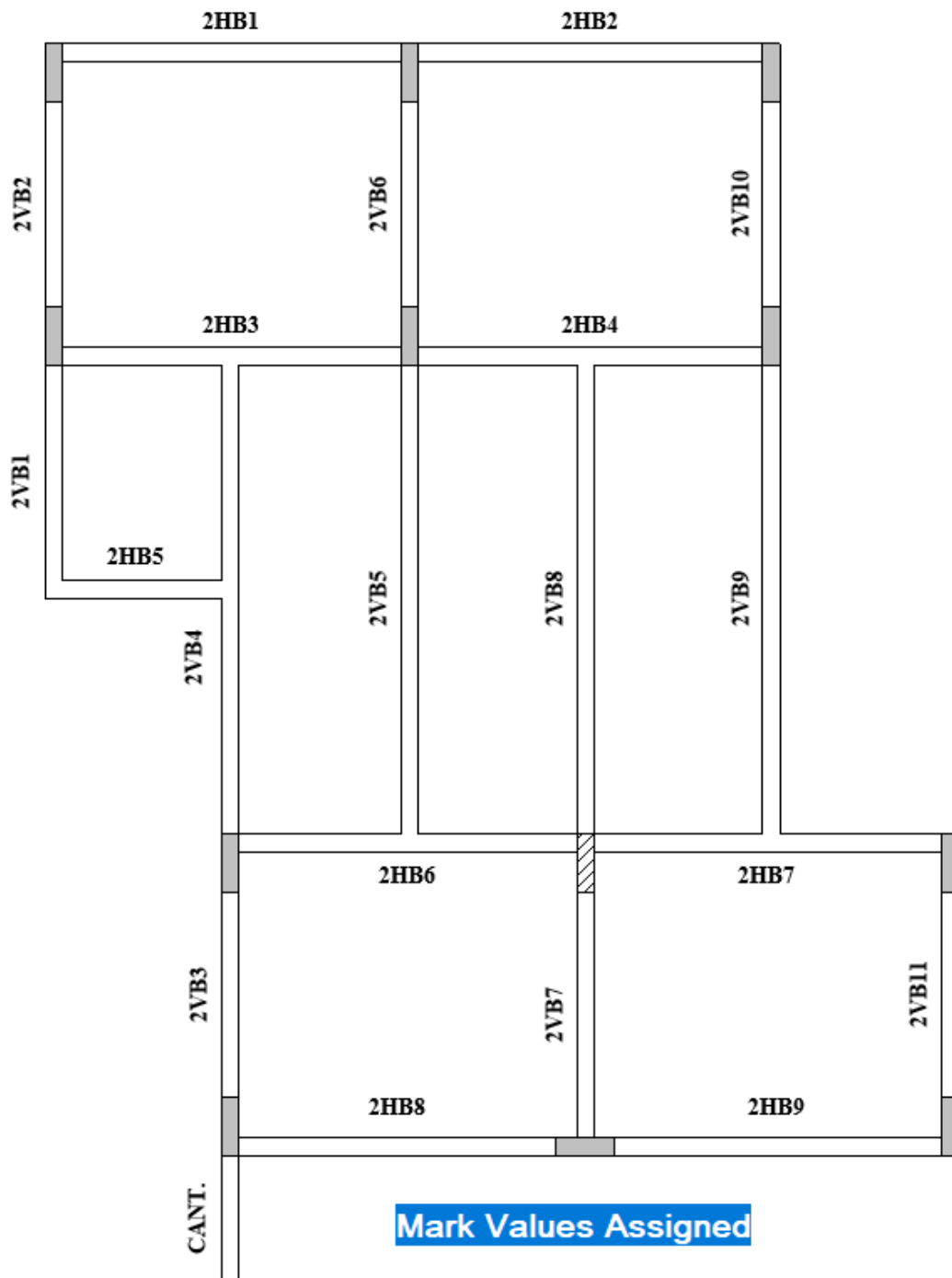
1

Select Model Elements :

Selecting...

Waiting for selection in Revit

3rd level\_Manilla demonstration\_SWAMI\_VISHWA.rvt



### Dynamo Player

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**Beam1\_RUN BEAM ANNOTATION SCRIPT ON ALL BEAMS**  
 Run completed

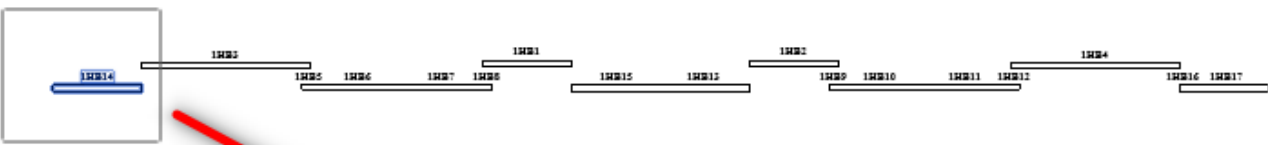
- ✓ Enter name for Cantilever Beams!! :
- ✓ Enter Suffix for the steel beam!! :
- ✓ Enter Level Number! :
- ✓ Enter Suffix for Horizontal beam! :
- ✓ Enter Suffix for Vertical Beams!! :
- ✓ Number Slider For horizontal Beams :
- ✓ Number Slider Gor Vertical Beams :
- ✓ Select Model Elements :  
  
 Count: 73 [...show more](#)

3rd level\_Manilla demonstration\_SWAMI\_VISHWA.rvt

Correction is applied to horizontal and vertical beams if numbering is not as per expectations



Since, the script number the beams on basis on starting coordinate, the output numbering did not come as per requirement.



To overcome above problem, run Script "Beam2\_CORRECTION DONE TO HORIZONTAL BEAMS"

Select one beam from which you wanna calculate offset. Enter range of distance(in meter), within which you want to include the beams. (-number to +number)

This correction can be applied to various group of beams

Dynamo Player

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✓

Enter name for Cantilever Beams!! :

CANT.

✓

Enter Suffix for the steel beam!! :

✓

Enter Level Number! :

✓

Enter Suffix for Horizontal beam! :

Waiting for selection in Revit

✓

Selecting...

Waiting for selection in Revit

✓

Select element from which offset is calculated :

Select

Elements : 611866 665927

✓

Offset Value (Negative) :

1

✓

Offset value(Positive) :

1

Select all beams you want to apply correction to.

Enter Offset Distance

Block 5 - Test Project (1).rvt



## Correction applied to horizontal beams



**Dynamo Player**

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**Beam2\_CORRECTION DONE TO HORIZONTAL BEAMS**  
Run completed

- ✓ Enter name for Cantilever Beams!! :  
CANT.
- ✓ Enter Suffix for the steel beam!! :  
ST
- ✓ Enter Level Number! :  
1
- ✓ Enter Suffix for Horizontal beam! :  
HB
- ✓ Number Slider For horizontal Beams :  
1
- ✓ Select Model Elements :  
Select  
Count: 34 ...show more
- ✓ Select element from which offset is calculated :  
Select

Same method is applied to vertical beams with scripts “Beam3\_ CORRECTION DONE TO VERTICAL BEAMS” scripts