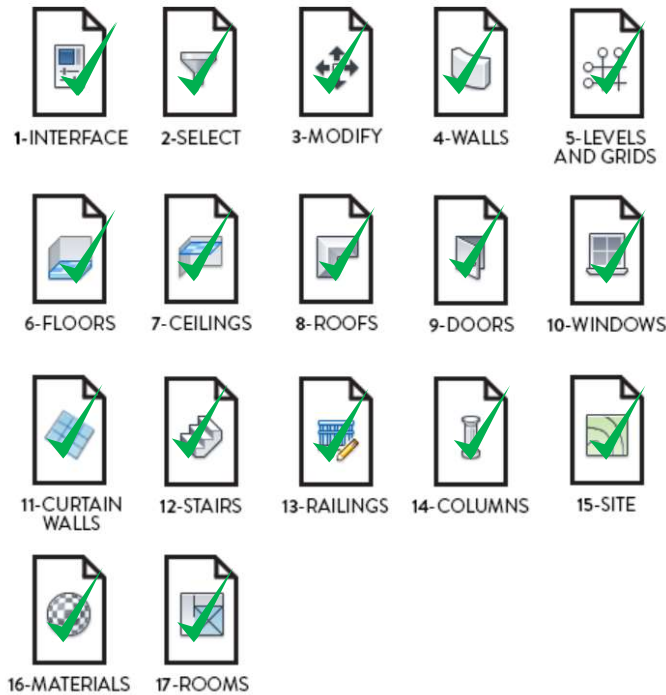


AUTODESK® REVIT® the basics

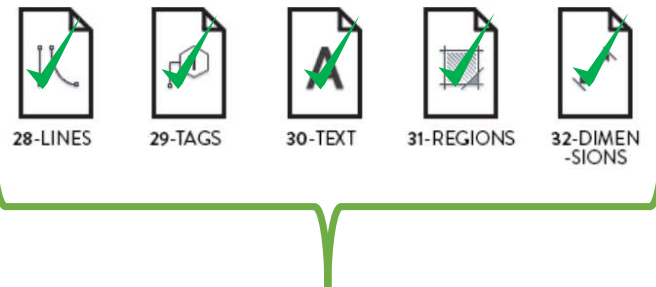
PART 1: MODEL



PART 2: VIEWS

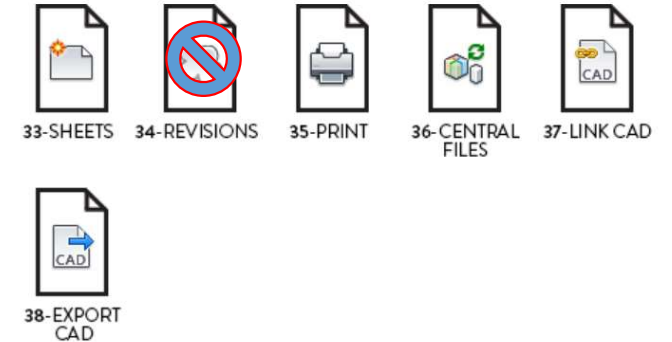


PART 3: ANNOTATE

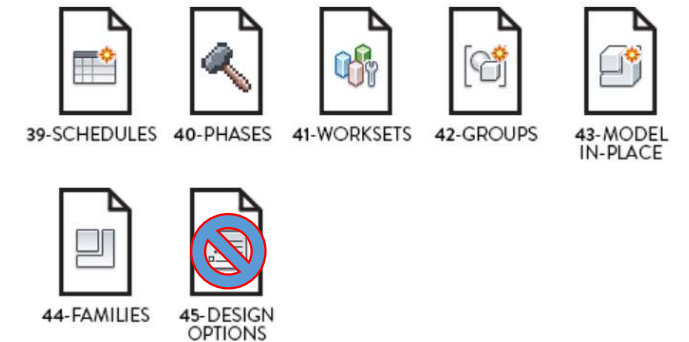


Covered in notes:

PART 4: PUBLISH AND COLLABORATE



PART 5: ADVANCED TOOLS

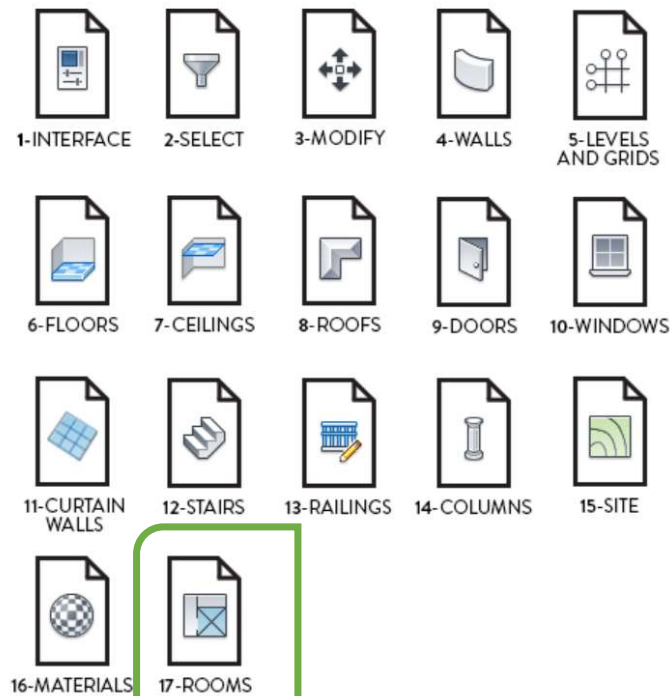


<https://revitpure.com/basics>

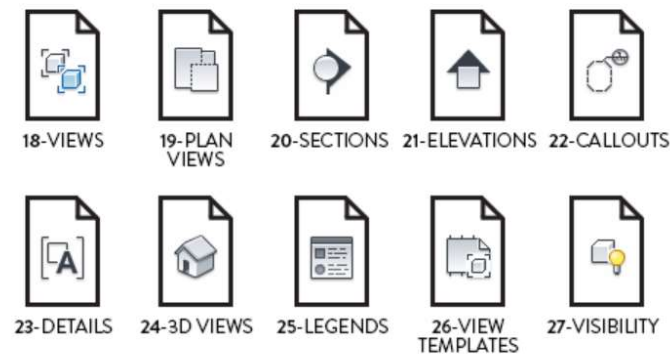
<https://academy.autodesk.com/>

the basics: plus

PART 1: MODEL



PART 2: VIEWS



PART 5: ADVANCED TOOLS



- Creating Schedules for pricing
- Phased Works
- Central Models / Worksets / Federated Models
- Families
- Advanced Modelling: Sweeps Reveals and Model In Place
- Collaboration and interoperability
- VR Visualisation

PART 5: ADVANCED TOOLS



39-SCHEDULES



40-PHASES



41-WORKSETS



42-GROUPS



43-MODEL
IN-PLACE



44-FAMILIES



45-DESIGN
OPTIONS

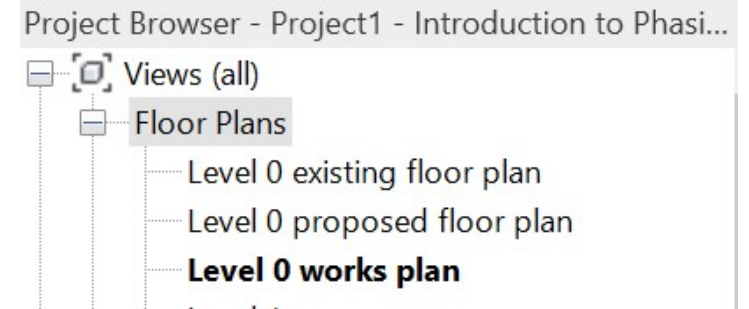


- Creating Schedules for pricing
- Phased Works
- Central Models / Worksets / Federated Models
- Families
- Advanced Modelling:
Sweeps Reveals and Model In Place
- *Collaboration and interoperability*
- *VR Visualisation*

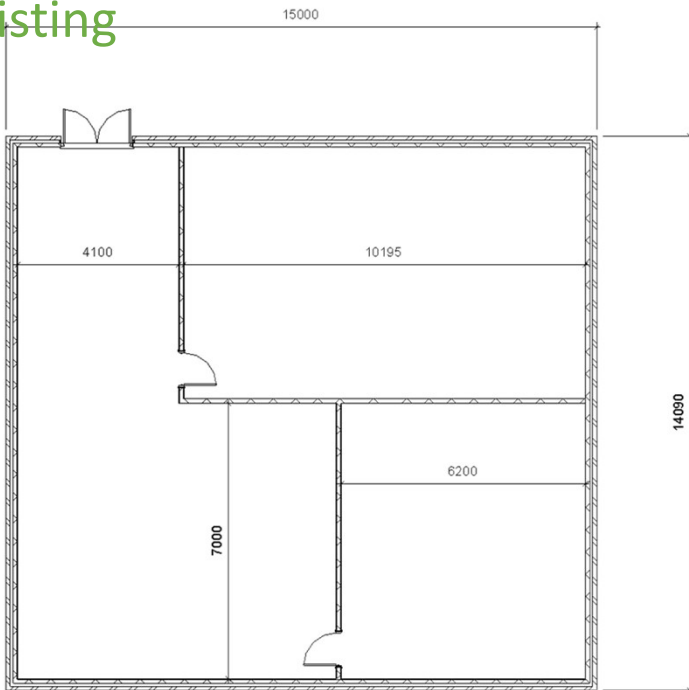


Phasing in Revit (Exercise 4)

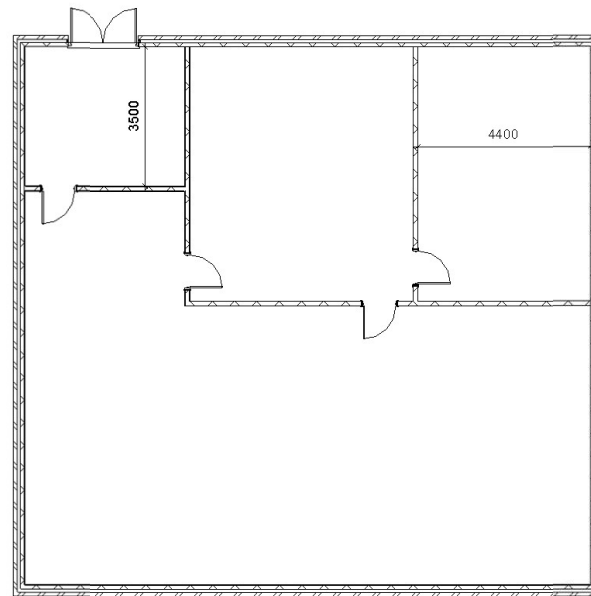
Revit enables you to show both existing and proposed plans using Phase Filters and Graphical Overrides



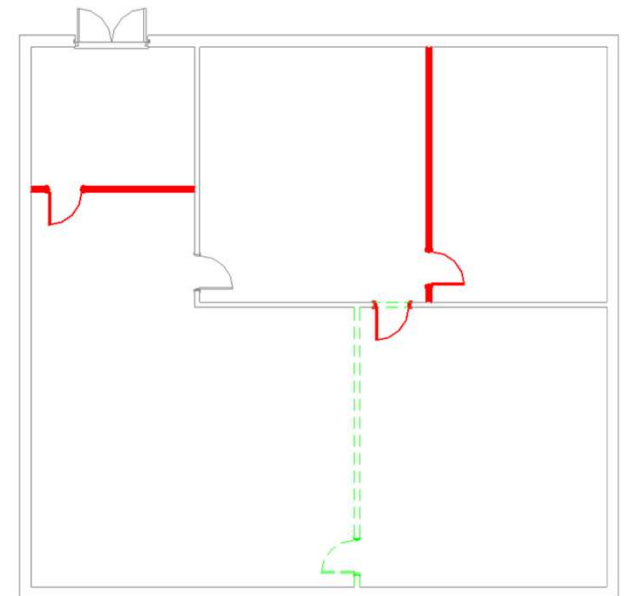
Existing



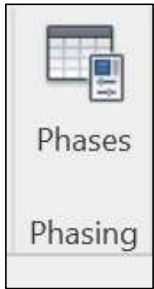
Proposed



Works Plan



Manage



Phasing

Project Phases Phase Filters Graphic Overrides

PAST

	Name	Description
1	Existing	
2	New Construction	

Insert

Before

After

Combine with:

Previous

Next

Phasing

Project Phases Phase Filters Graphic Overrides

	Filter Name	New	Existing	Demolished	Temporary
1	Show All	By Category	Overridden	Overridden	Overridden
2	Show Complete	By Category	By Category	Not Displayed	Not Displayed
3	Show Demo + New	By Category	Not Displayed	Overridden	Overridden
4	Show New	Overridden	Overridden	Overridden	Not Displayed
5	Show Previous + Demo	Not Displayed	Overridden	Overridden	Not Displayed
6	Show Previous + New	By Category	Overridden	Not Displayed	Not Displayed
7	Show Previous Phase	Not Displayed	Overridden	Not Displayed	Not Displayed

New Delete

OK Cancel Apply Help

Phasing

Project Phases Phase Filters Graphic Overrides

Phase Status	Projection/Surface		Cut		Halftone	Material
	Lines	Patterns	Lines	Patterns		
Existing				Hidden	☐	Phase - Exist
Demolished				Hidden	☐	Phase - Demo
New					☐	Phase - New
Temporary					☐	Phase - Temporary

OK Cancel Apply Help

Phasing in Revit

Revit enables you to show both existing and proposed plans using Phasing Filters and Graphical Overrides

Existing

Floor Plan

Floor Plan: Level 0 existing floor plan

Edit Type

Depth Clipping

No clip

Identity Data

View Template

<None>

View Name

Level 0 existing floor p...

Dependency

Independent

Title on Sheet

Referencing Sheet

Referencing Detail

Phasing

Phase Filter

Show All

Phase

Existing

Proposed

Floor Plan

Floor Plan: Level 0 proposed floor pl...

Edit Type

Depth Clipping

No clip

Identity Data

View Template

<None>

View Name

Level 0 proposed floo...

Dependency

Independent

Title on Sheet

Referencing Sheet

Referencing Detail

Phasing

Phase Filter

Show Complete

Phase

New Construction

Works Plan

Floor Plan

Floor Plan: Level 0 works plan

Edit Type

Depth Clipping

No clip

Identity Data

View Template

<None>

View Name

Level 0 works plan

Dependency

Independent

Title on Sheet

Referencing Sheet

Referencing Detail

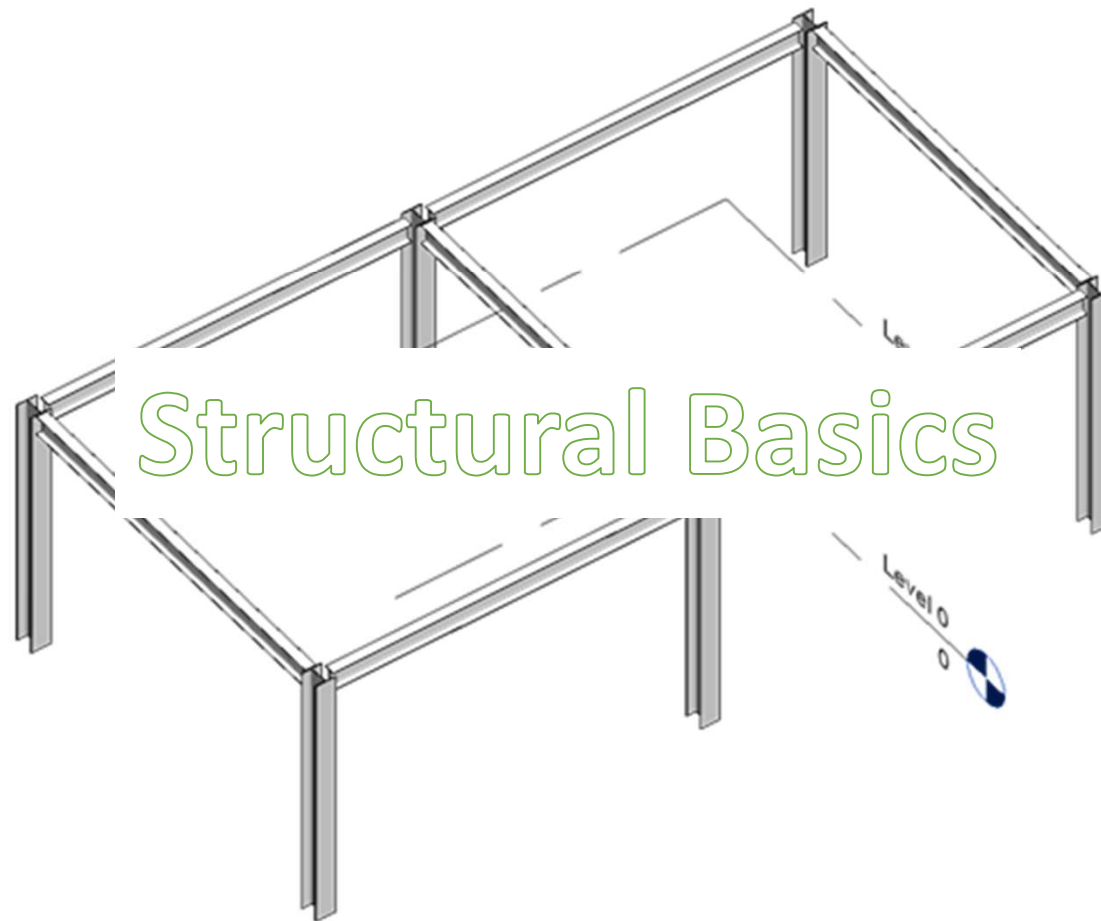
Phasing

Phase Filter

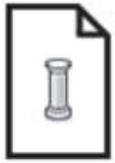
Show New

Phase

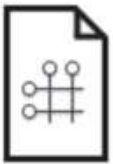
New Construction



Structural Basics



14- COLUMNS



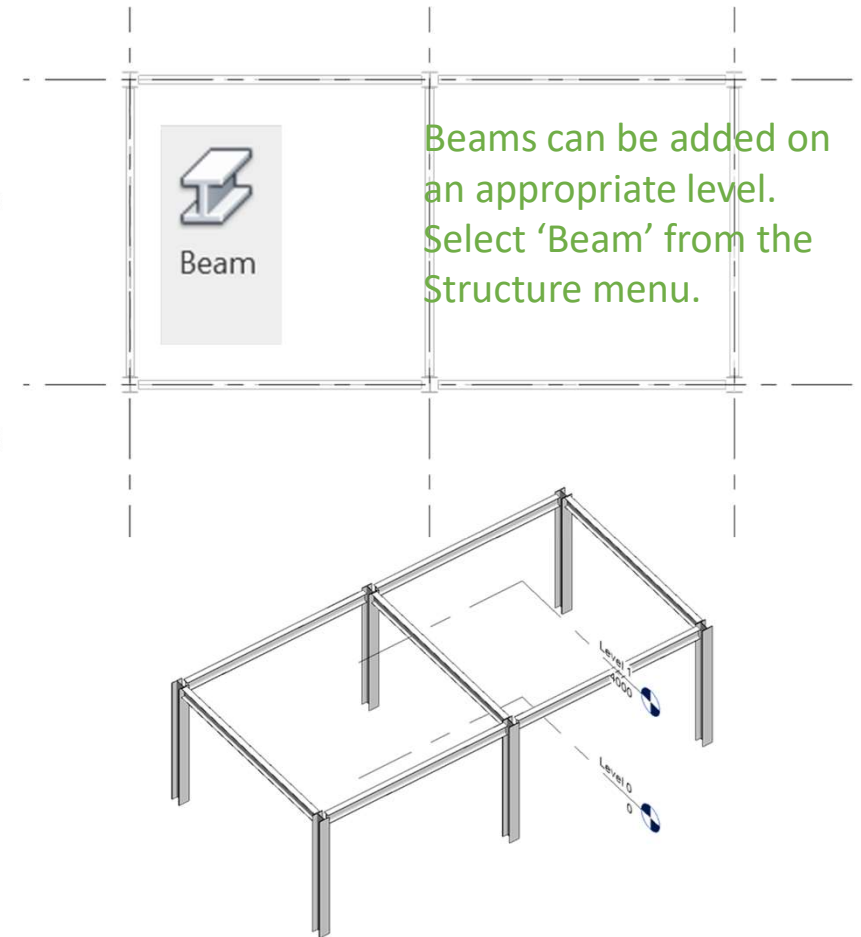
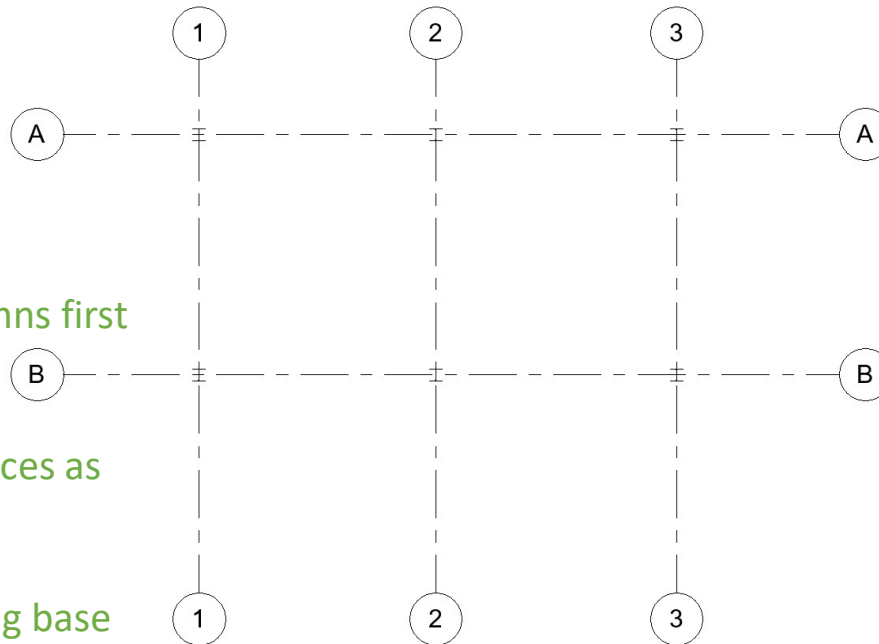
5-LEVELS AND GRIDS

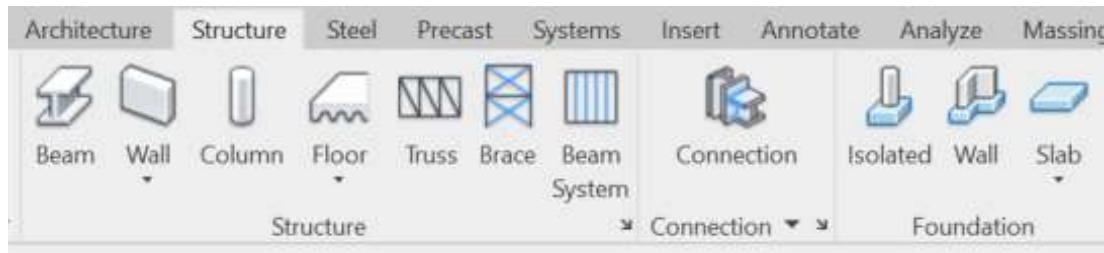
Before placing Columns first
start with a GRID

Rename grid references as
appropriate.

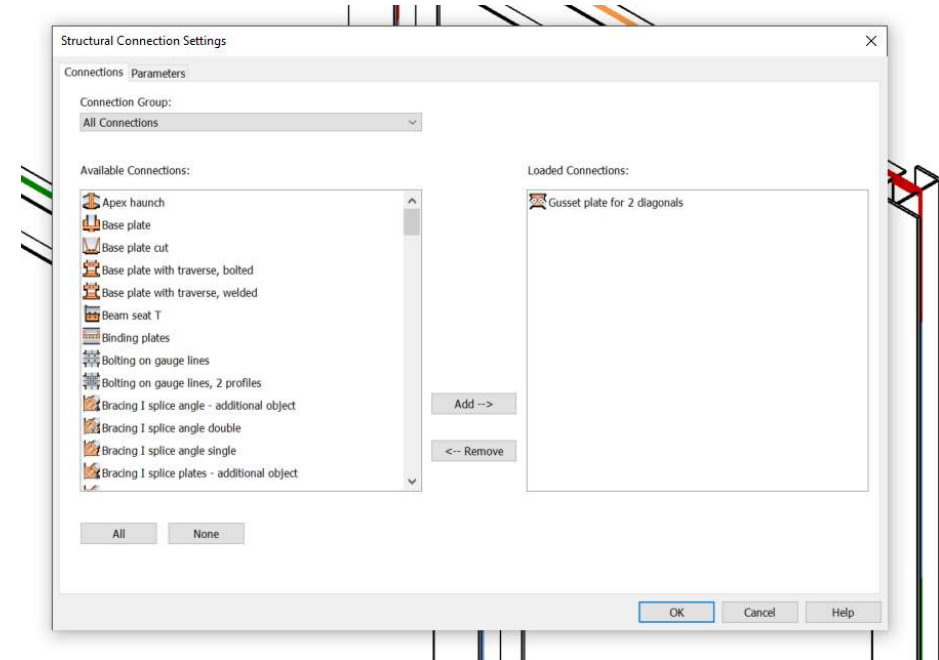
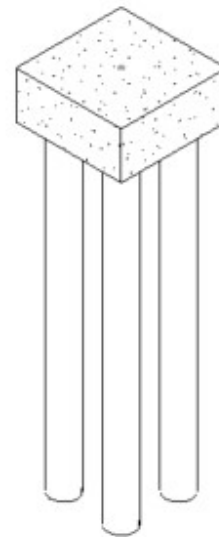
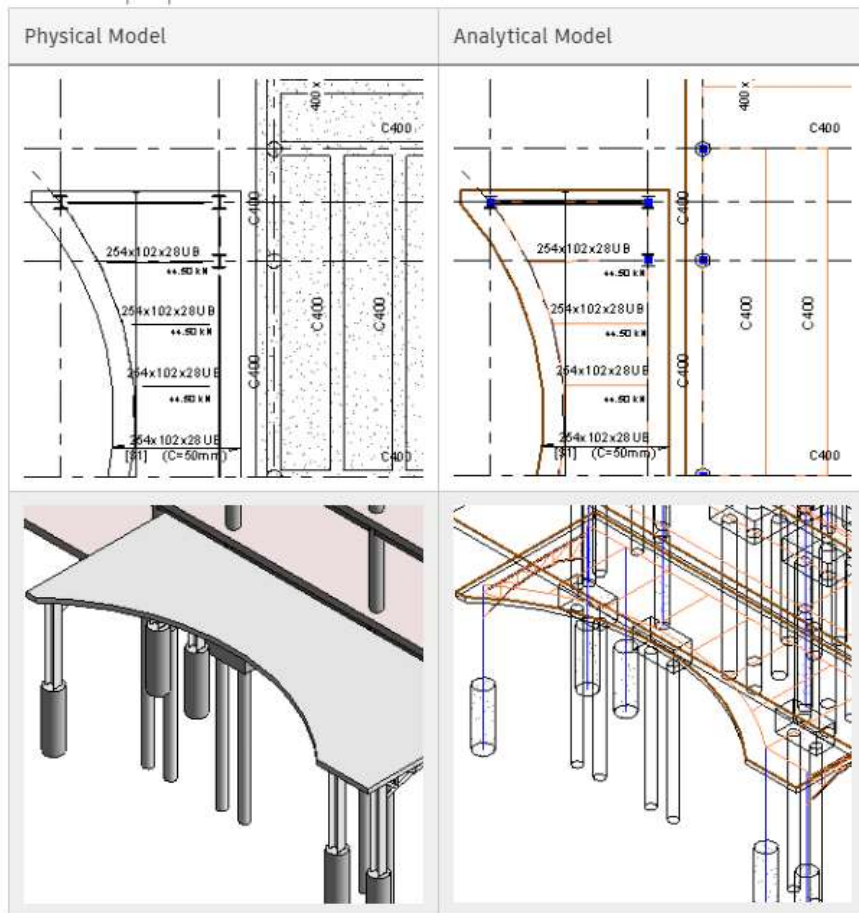
Click Column - noting base
level in the properties palette.

In the sub menu select 'Height'
and Top Constraint (eg Level 1)



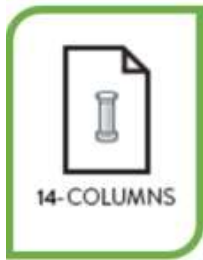


Structural Elements can be created from the Structures Tab. When using the Structural template you are able to view structural elements in both Physical and Analytical mode. Analytical mode can help understand the properties of the structure and element can be set to specific design parameters.

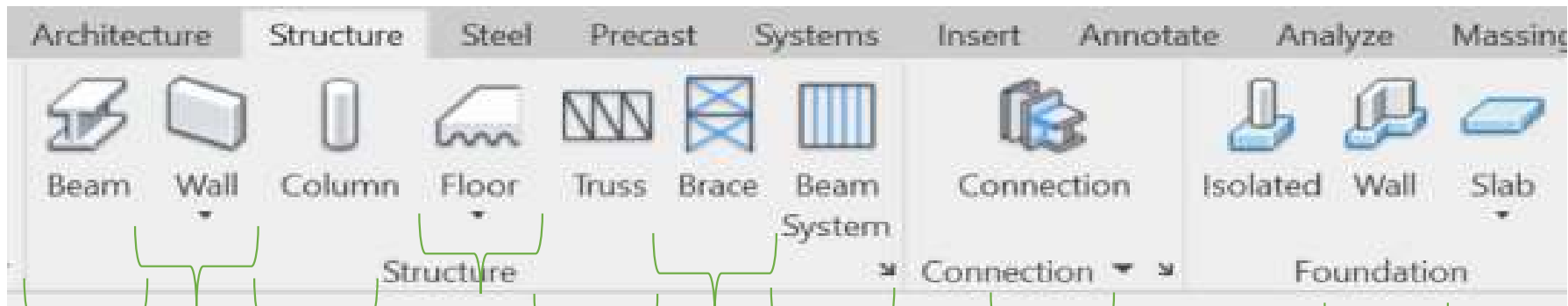


For more on Analytics see the AutoDesk Knowledge Hub;

<https://knowledge.autodesk.com/support/revit-products/learn-explore/caas/CloudHelp/cloudhelp/2021/ENU/Revit-Analyze/files/GUID-05CA5628-12C6-456C-B0B9-D922D22B67D0-htm.html>



Structural Basic:
Columns, Beams, bracing and connections.
Foundations: Pile, Raft, Strip



Structural Basics Class Exercise

Start a New Project and use the 'Structural Template'

- Draw columns and beams and change the connection details.
- Draw some walls, and place a strip footings underneath
- Draw a raft foundation and apply an edge strip to each side.
- Draw A beam system – 20m wide by 10m deep.
- Draw a 3 Pile foundation.
- Draw a Fink truss

