# 3D MODELING (STR)

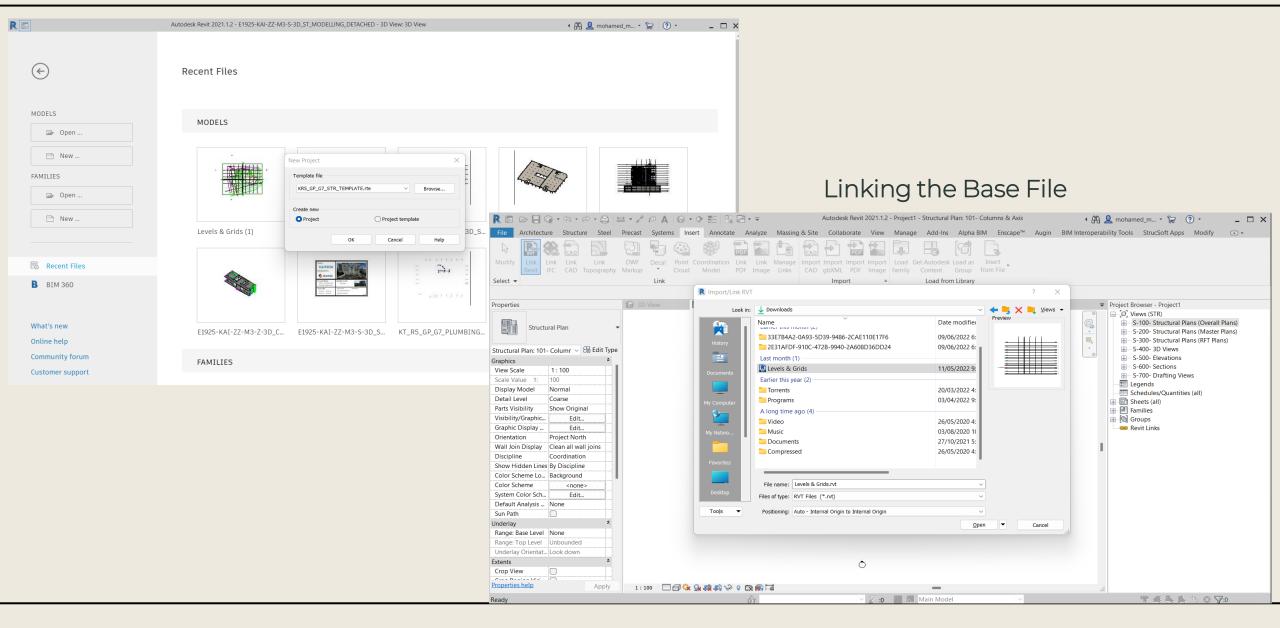
- 1. Environment Setup
- 2. Modeling Process



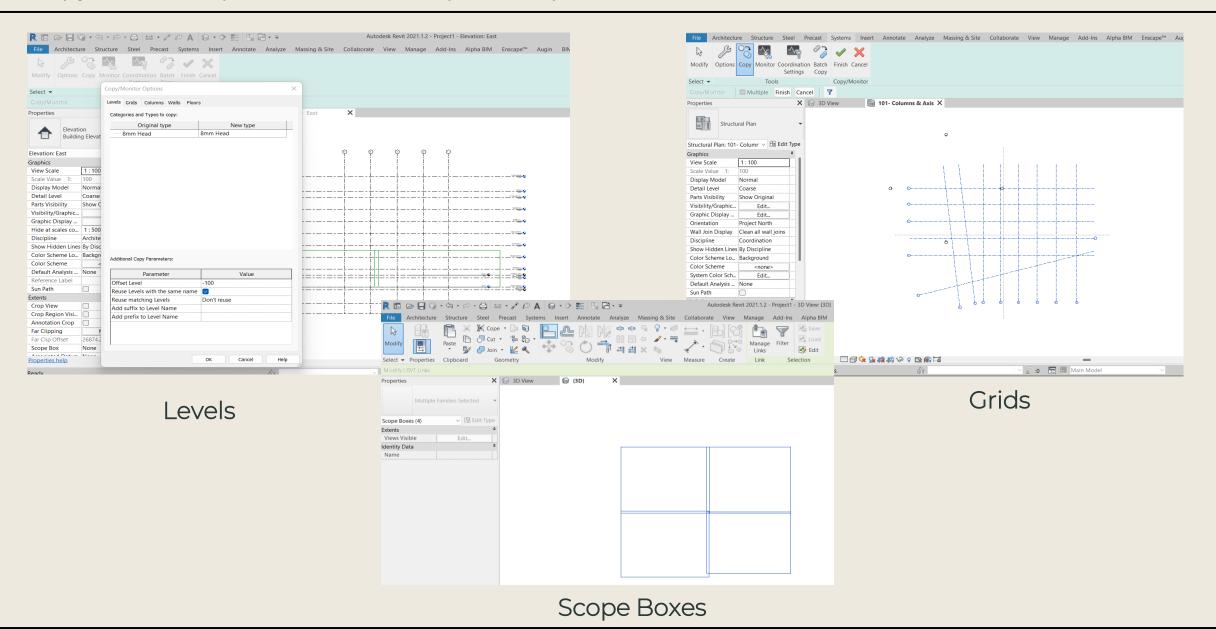
## 1. Environment Setup (Worksharing)

- Creating STR Central File using the STR Temp.
- Linking the Base File.
- Copy & Monitor (Levels Grids Scope Boxes).
- Creating different family types.

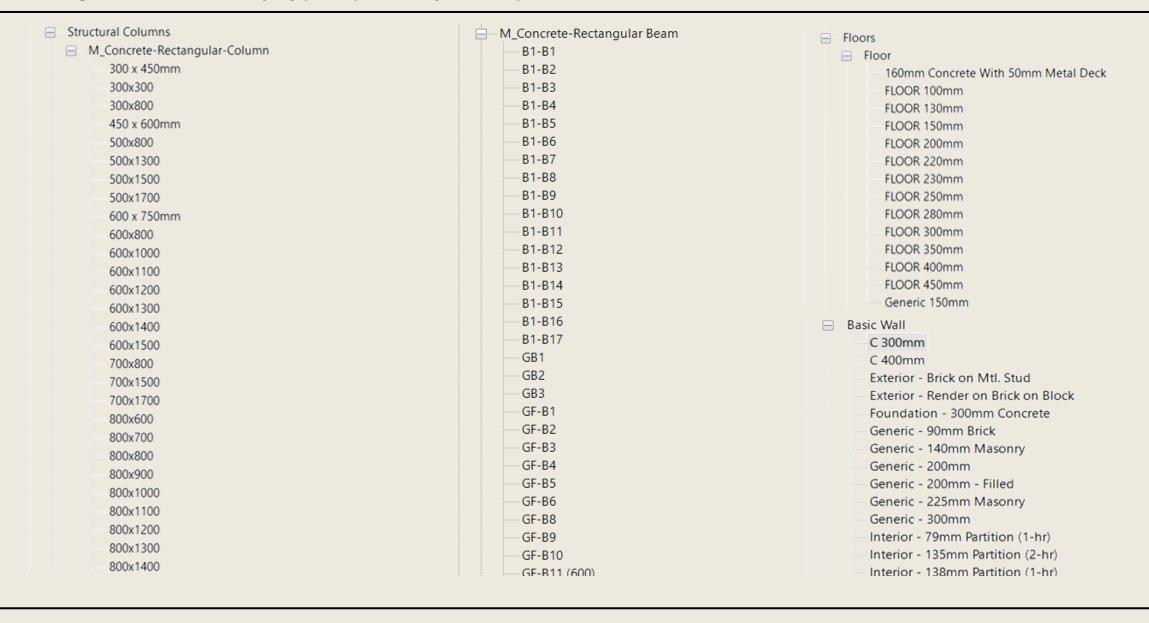
#### Creating STR central file using the STR template



#### Copy & monitor (Levels - Grids – Scope Boxes)

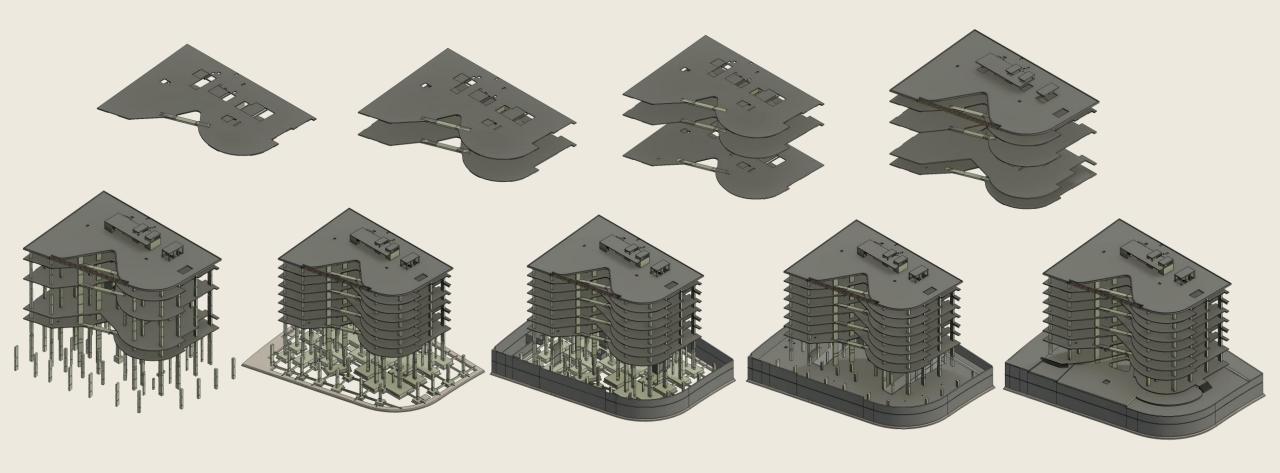


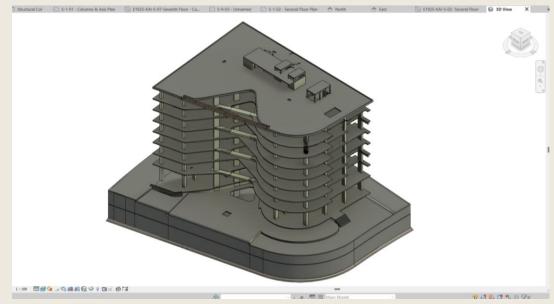
#### Creating different family types (with Dynamo).



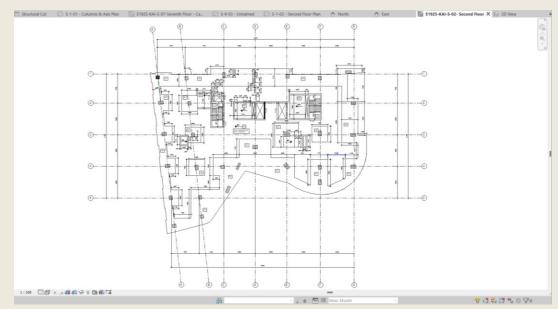
### 2. Modeling Process

- To gain momentum, We started by the upper levels first.
- Then Columns & Shear Walls, Foundations, Basement, SOG, GF, and any other elements (Stairs, Ramps,..)

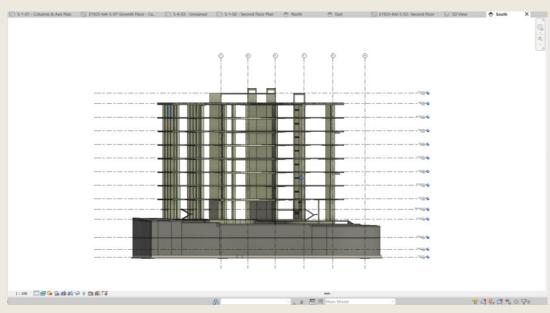




3D View



Second Floor Structural Plan



Elevation: South

	Structural C	olumn Schedule			
Family	Base Level	Top Level	Type	bxh	Volu
	Firm Firm	format films	C1	900x1500	1 470
M_Concrete-Rectangular-Column	First Floor	Second Floor		00001000	4.79
M_Concrete-Rectangular-Column	First Floor	Second Floor	C2	800×900	2.63
M_Concrete-Rectangular-Column	First Floor	Second Floor	C3	800×1000	2.92
M_Concrete-Rectangular-Column	First Floor	Second Floor	C4	500x1700	3.10
M_Conorete-Reotangular-Column	First Floor	Second Floor	C9	800×900	13.14
M_Concrete-Rectangular-Column	First Floor	Second Floor	C10	800x1200	7.01
M_Concrete-Rectangular-Column	First Floor	Second Floor	C11	800x1200	7.01
M_Concrete-Rectangular-Column	First Floor	Second Floor	C12	800×1000	5.84
M_Concrete-Rectangular-Column	First Floor	Second Floor	C14	800x1200	3.50
M_Concrete-Rectangular-Column	First Floor	Second Floor	C15	900x1200	3.94
M_Concrete-Rectangular-Column	First Floor	Second Floor	C16	900x1500	4.93
M_Concrete-Rectangular-Column	First Floor	Second Floor	C17	600x1500	3.29
M_Conorete-Rectangular-Column	First Floor	Second Floor	C18	700x1700	4.34
M_Conorete-Rectangular-Column	First Floor	Second Floor	C19	600x1400	3.07
M_Concrete-Rectangular-Column	First Floor	Second Floor	C21	800×1000	2.84
M_Concrete-Rectangular-Column	First Floor	Second Floor	C25	800x1200	3.50
M_Concrete-Rectangular-Column	First Floor	Second Floor	C26	800x1100	3.21
M_Concrete-Rectangular-Column	First Floor	Second Floor	C27	800×900	2.63
M_Concrete-Rectangular-Column	First Floor	Second Floor	C28	800x1300	7.59
M_Concrete-Rectangular-Column	First Floor	Second Floor	C29	800x1100	3.21
M_Concrete-Rectangular-Column	First Floor	Second Floor	C34	800x1000	2.92

Structural Column Schedule

	F	loor Schedule	
Family	Level	Type	Volume
Floor	Second Floor	Slab 130mm	2.08 m²
Floor	Second Floor	Slab 130mm	2.08 m <sup>x</sup>
Floor	Second Floor	Slab 130mm	2.08 m*
Floor	Second Floor	Slab 130mm	86.96 m*
Floor	Second Floor	Slab 200mm	0.54 m*
Floor	Second Floor	Slab 200mm	0.65 m*
Floor	Second Floor	Slab 200mm	0.72 m*
Floor	Second Floor	Slab 200mm	0.95 m*
Floor	Second Floor	Slab 200mm	1.23 m <sup>x</sup>
Floor	Second Floor	Slab 200mm	1.24 m*
Floor	Second Floor	Slab 200mm	1.34 m*
Floor	Second Floor	Slab 200mm	1.35 m*
Floor	Second Floor	Slab 220mm	0.55 m*
Floor	Second Floor	Slab 220mm	0.98 m*
Floor	Second Floor	Slab 220mm	2.89 m*
Floor	Second Floor	Slab 220mm	5.78 m*
Floor	Second Floor	Slab 220mm	326.18 m*
Floor	Second Floor	Slab 230mm	3.16 m <sup>x</sup>
Floor	Second Floor	Slab 230mm	6.39 m*
Floor	Second Floor	Slab 250mm	5.08 m*
Floor	Second Floor	Slab 350mm	2.63 m*
otal			454.86 m*

Structural Floor Schedule

