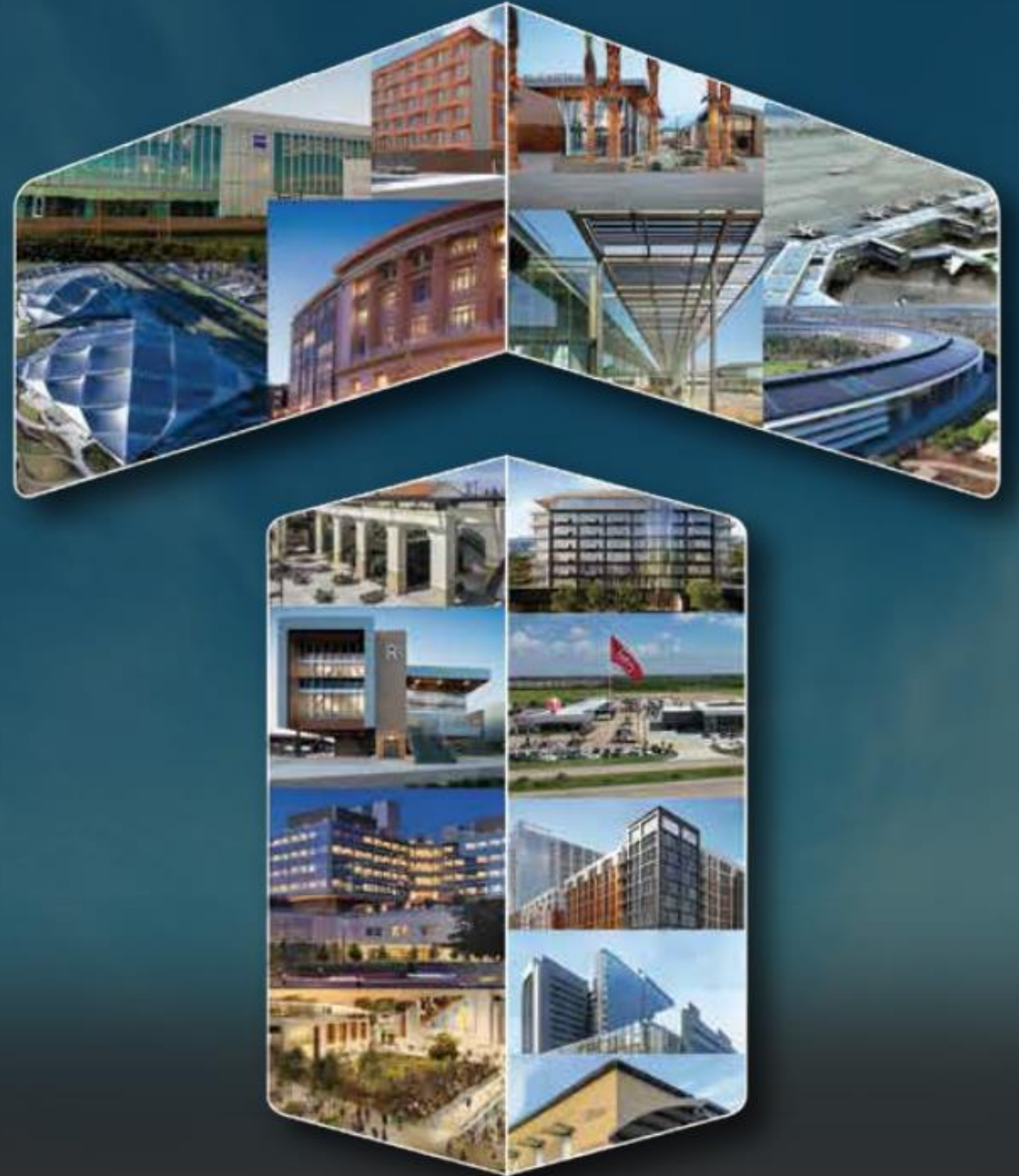


BIM PORTFOLIO

PRASIDHA T G





Work Experience

TechnoStruct LLC

1 June 2024 -Present/ BIM Intern

PA Associates & Engineering Consultancy

1st October-Present/ Structural Engineer

Leviat MENA

1 February 2021 - 30 June 2024 |

Structural Specification Engineer

Islamic Architects & Consultants

1 October 2019 - 30 December 2020 | Structural Engineer



PRASIDHA T G

BIM Structural Engineer

Education

- **Michigan State University**
2024 | Post Graduation in BIM
- **APJ Abdul Kalam Technological University**
2018 | Masters in Structural Engineering
- **University of Calicut**
2009 | Bachelors in Civil Engineering

ABOUT ME!

- A Civil/Structures & BIM Engineer skilled in Autodesk Revit Architecture, Structures, MEP and cloud platforms in AEC industry. Specialized in the complete lifecycle of structural design—ranging from the initial concept and structural analysis to incorporating BIM for in-depth design evolution and construction coordination.

Contact

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🌐 www.linkedin.com/in/

[prasidha-gopinath-999b5167](https://www.linkedin.com/in/prasidha-gopinath-999b5167)

📍 Dubai, UAE

Software Proficiency



Revit



Navisworks



Construction Cloud



Enscape



Robot Structural Analysis



BIM TRACK



Staad pro



CONTENTS

- 1. Downtown Davie -**
Architectural & Structural Internship
- 2. Hunters point Shipyard Block 52&54**
MEPF Internship
- 3. Hunters point Shipyard Block 52&54**
Clash detection, BIM Track and 4D Timeliner simulation
- 4. Dynamo Scripting**
- 5. Enscape, ROBOT Structural Analysis, Scan to BIM**

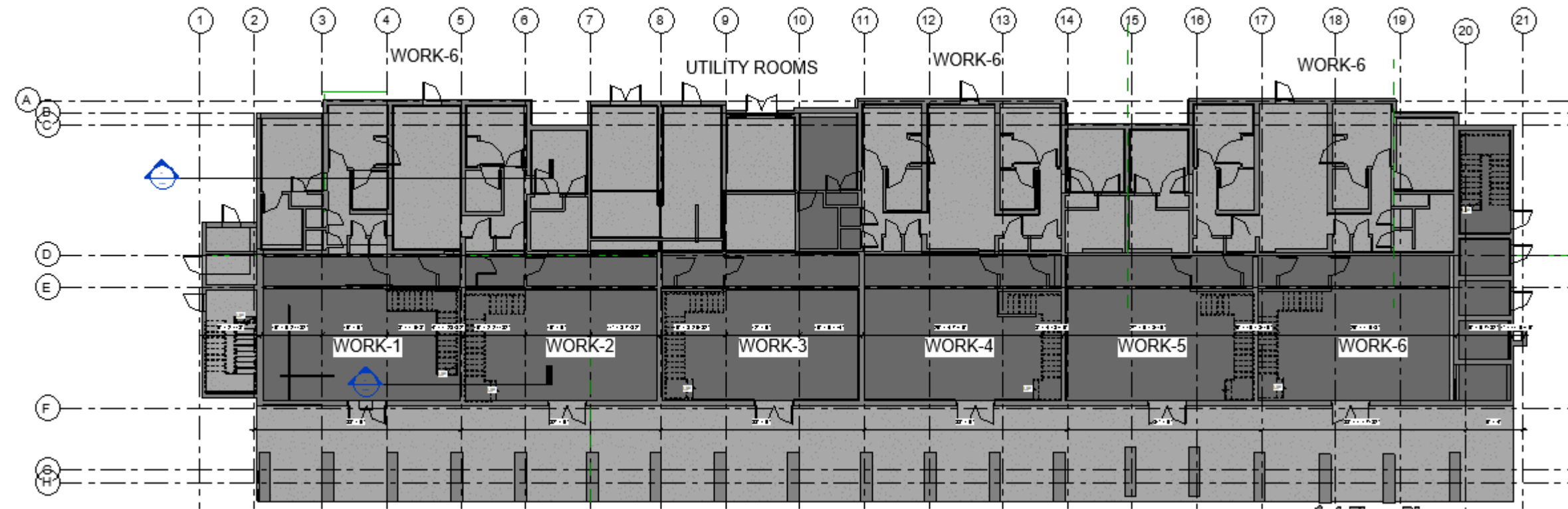
Project-1 Downtown Davie Student Housing, Davie, Florida



Downtown Davie is a mixed use, medium to high density development project located in the heart of the Town of Davie is the first major development. The project consists of 870 student housing rooms, 6 live-work units, 35,400 square feet of ground floor commercial use, and a 7-story parking garage all located on a 9.59-acre site. It emphasizes selective amenities and convenience for student living due to the close proximity to the Nova Southeastern University, Florida Atlantic University-Davie, and Broward College campuses.



Architectural Models



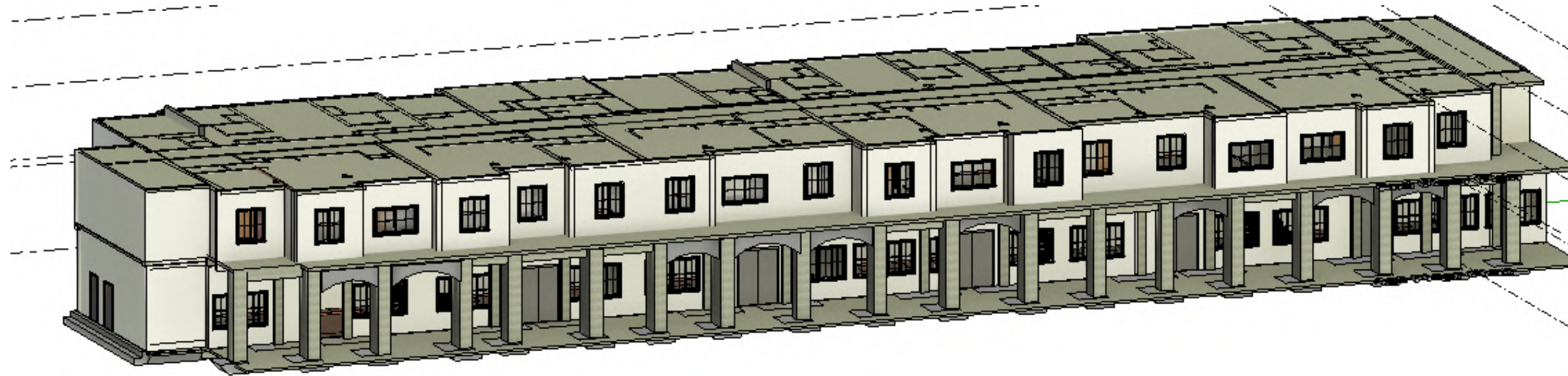
First Floor Architectural Plan



Second Floor Architectural Plan

Scope of work-
Created Architecture & Structural
Shop drawings and Schedules

Architectural Models

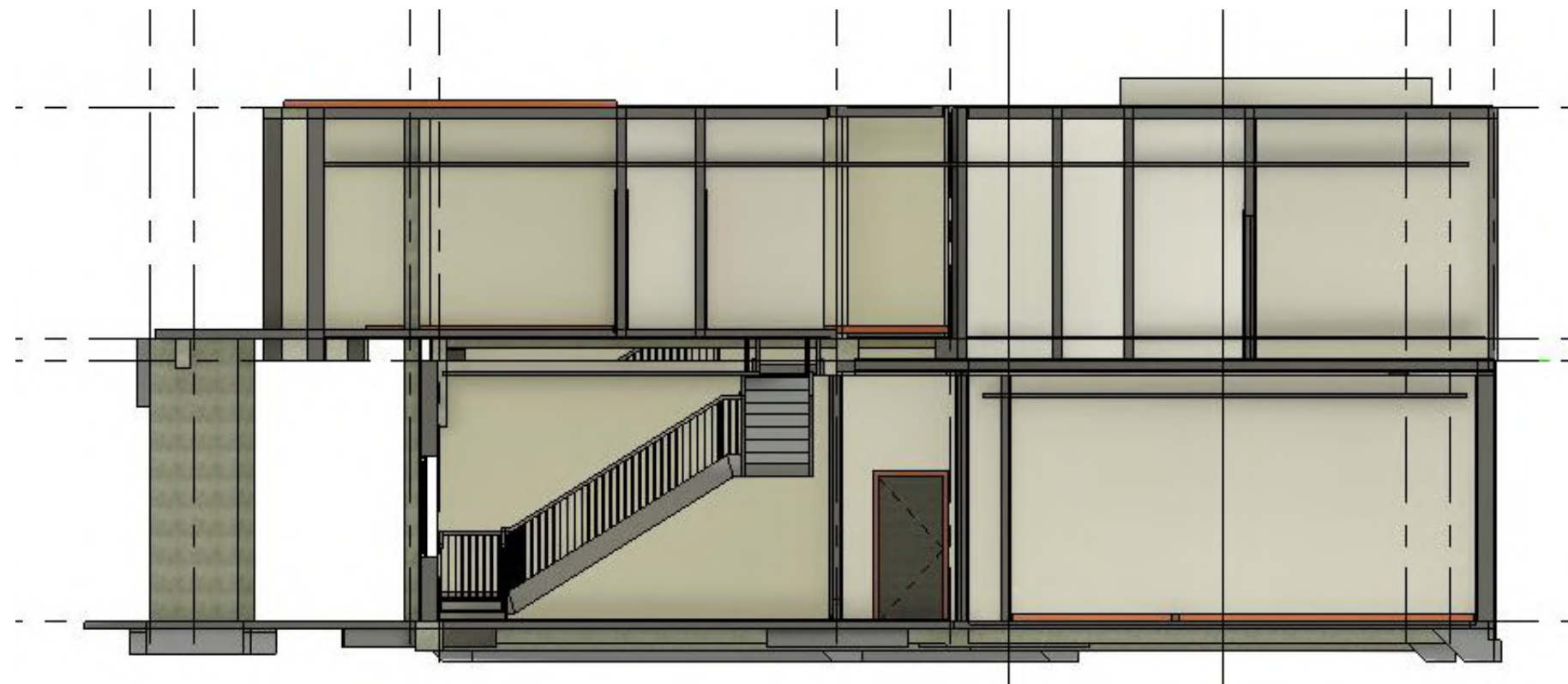
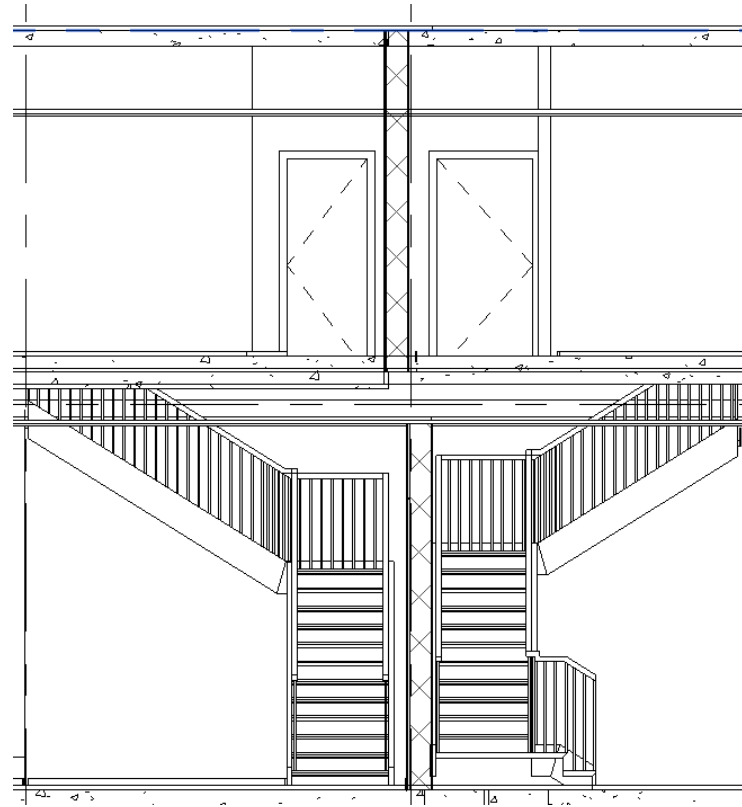


3D view- Downtown Davie

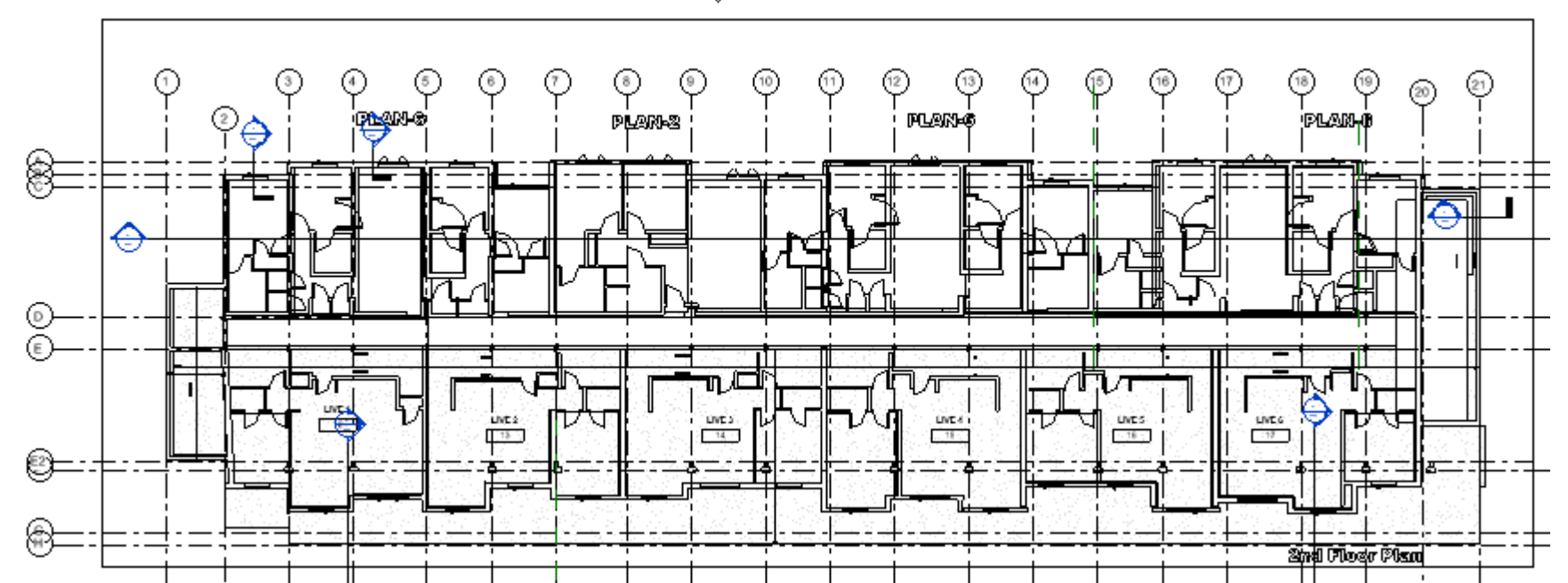
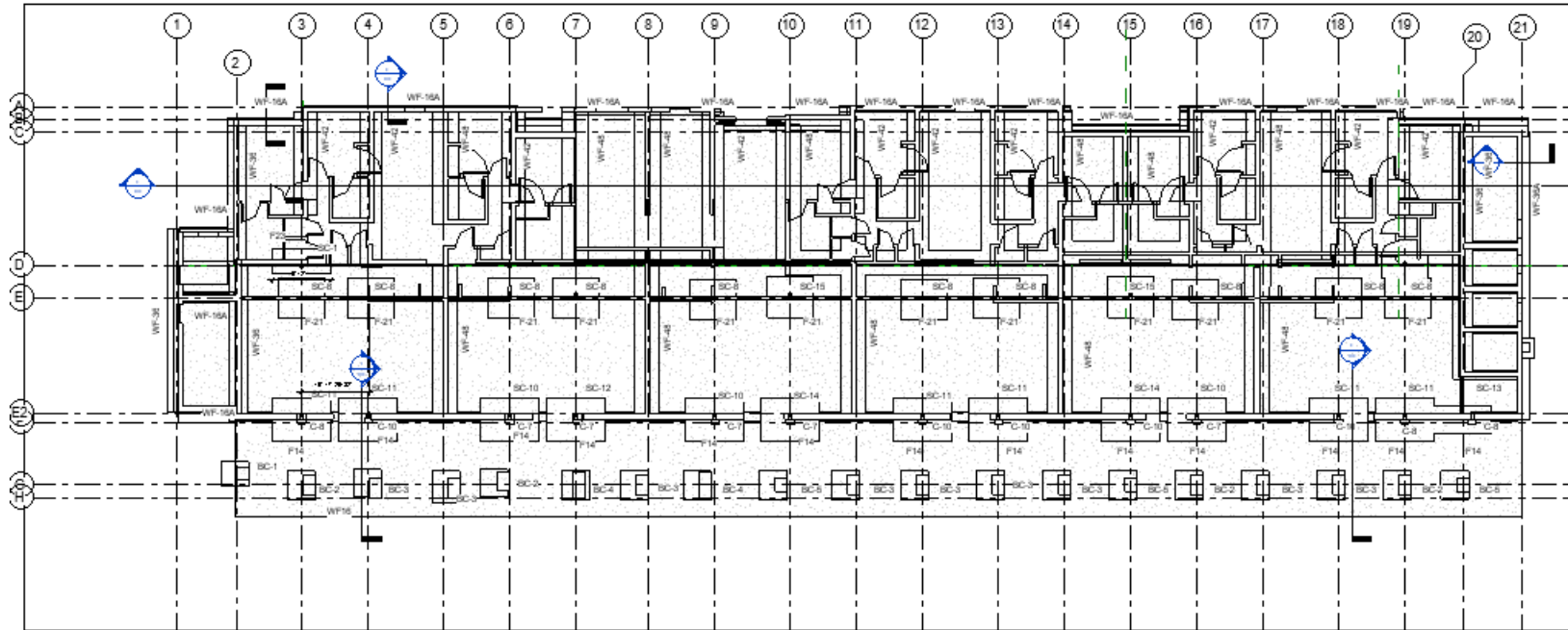


Rendered view- Downtown Davie

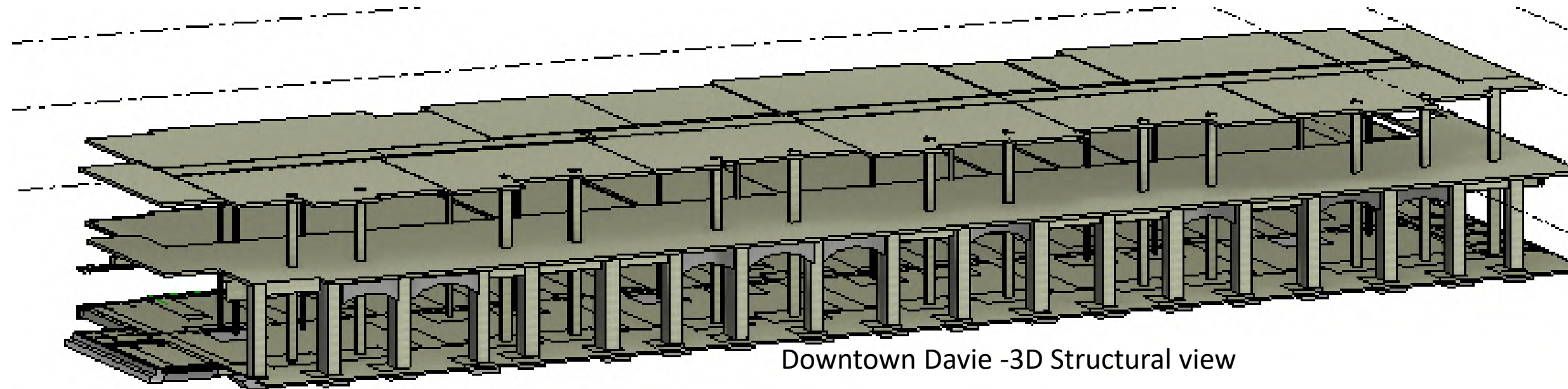
Architectural Models



Structural Models

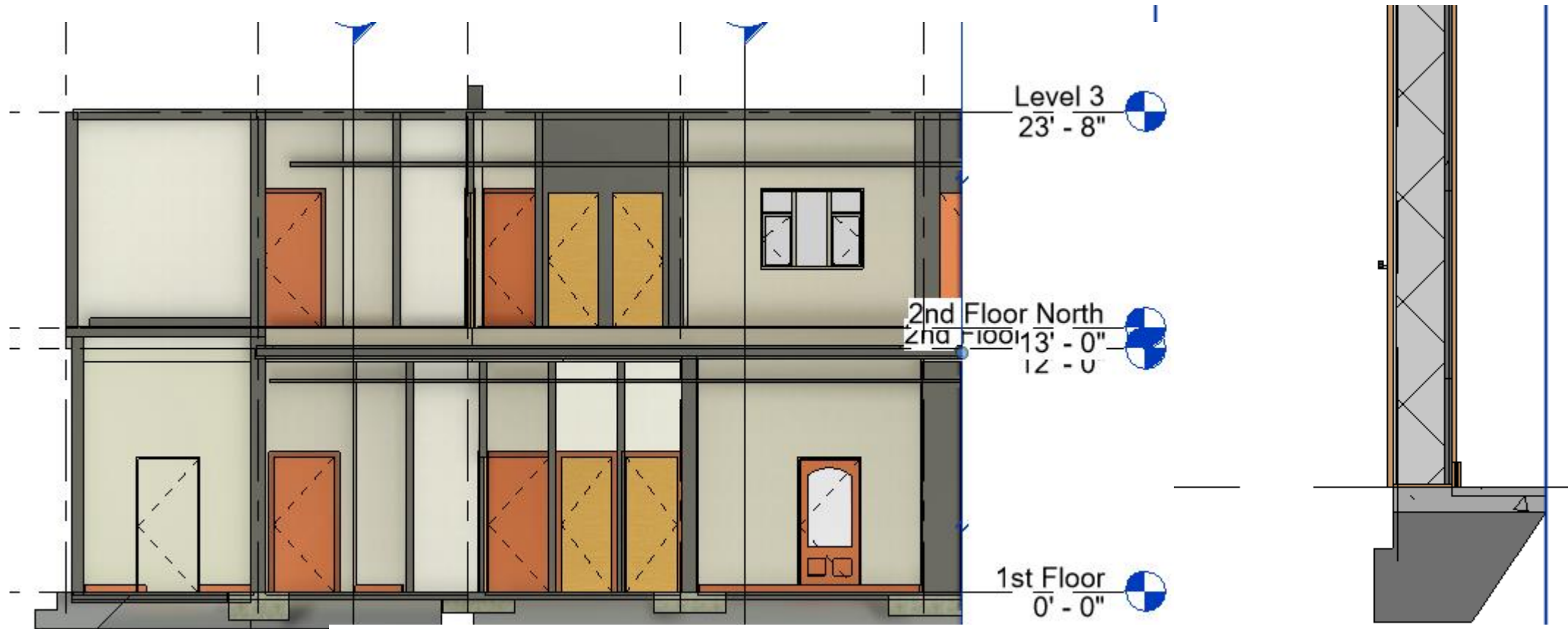


First floor&Second floor plan



Downtown Davie -3D Structural view

Structural Footings and Schedules

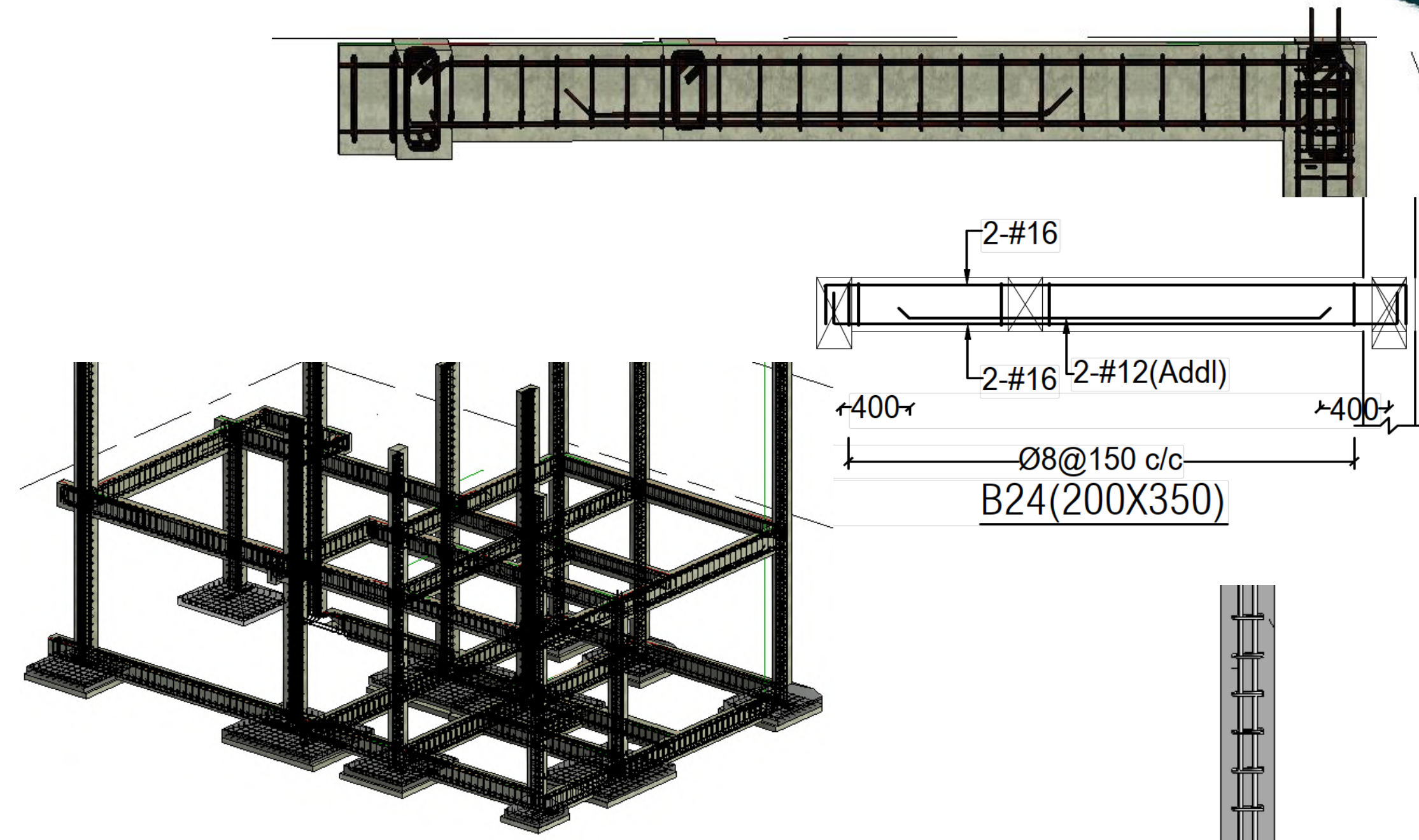
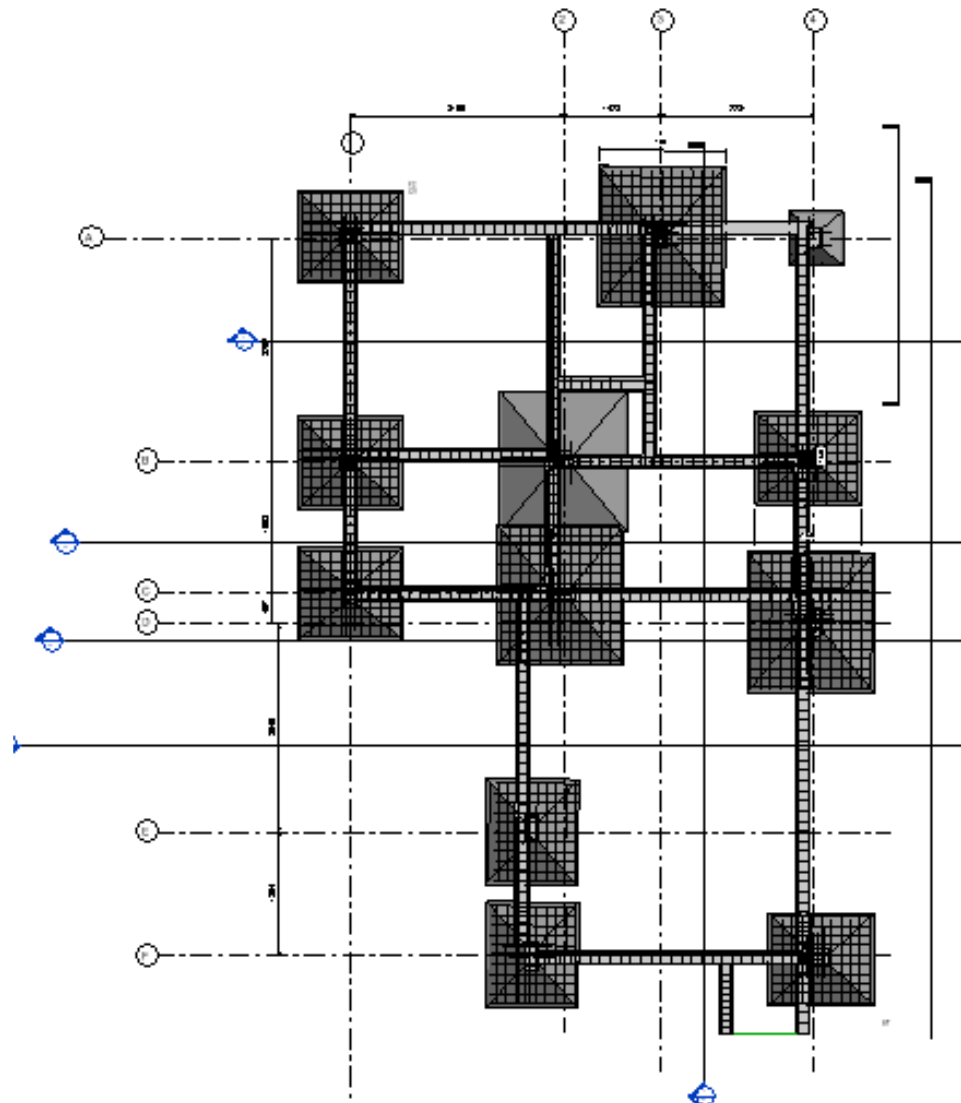


qs-Structural Framing Schedule									
Assembly Code	Assembly Description	Family and Type	Count	Length	Description	Volume	Level	Type	Comments
B10	Superstructure	Concrete-Rectangular Beam: Beam 300	1	202.89		201.60		Beam 300	
B10	Superstructure	Concrete-Rectangular Beam: 2B-3 8'x18"	1	203.66		388.96		2B-3 8'x18"	
B10	Superstructure	Concrete-Rectangular Beam: 2B-2A 8'x16"	1	8.50		7.52		2B-2A 8'x16"	
		arch beam 2: arch beam 2	1	8.58		17.94		arch beam 2	
		arch beam 2: arch beam 2	1	10.42		17.78		arch beam 2	
B10	Superstructure	Concrete-Rectangular Beam: 2B-2A 8'x16"	1	6.85		5.20		2B-2A 8'x16"	
B10	Superstructure	Concrete-Rectangular Beam: 2B-2A 8'x16"	1	10.75		8.89		2B-2A 8'x16"	
		arch beam 2: arch beam 2	1	9.50		18.19		arch beam 2	
B10	Superstructure	Concrete-Rectangular Beam: 2B-2A 8'x16"	1	8.00		7.07		2B-2A 8'x16"	
		arch beam 2: arch beam 2	1	8.00		17.81		arch beam 2	
		arch beam 2: arch beam 2	1	0.50		1.53		arch beam 2	

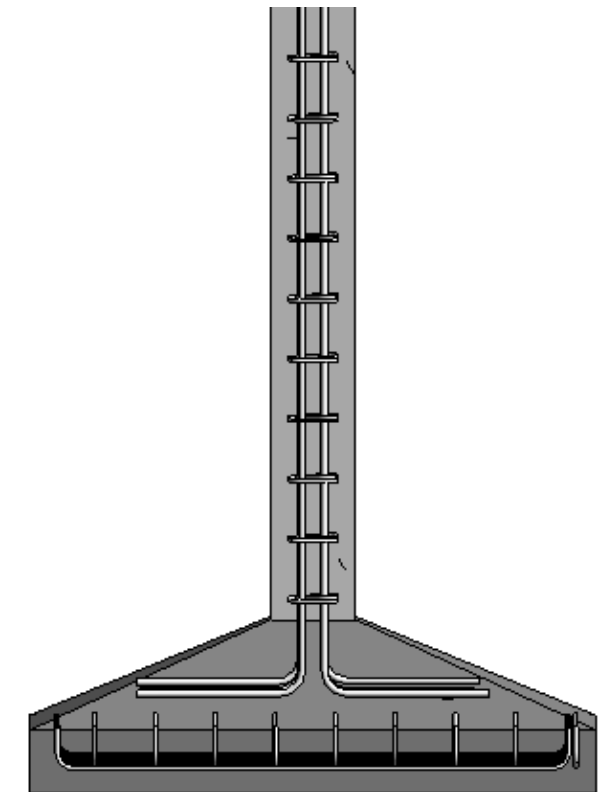
qs-Structural Column Schedule						
Assembly Code	Count	Length	Description	Assembly Description	Type	Comments
B10	1	13.00		Superstructure BC-1		1st Floor
B10	3	13.00		Superstructure BC-5		1st Floor
B10	4	13.00		Superstructure BC-2		1st Floor
B10	5	13.00		Superstructure BC-3		1st Floor
B10	2	13.00		Superstructure BC-4		1st Floor
B10	5	23.67		Superstructure C-7		1st Floor
B10	3	23.67		Superstructure C-8		1st Floor
B10	5	23.67		Superstructure C-10		1st Floor
	2	23.67		SC-1		1st Floor
	9	23.67		SC-8		1st Floor
	3	23.67		SC-10		1st Floor
	6	23.67		SC-11		1st Floor
	1	23.67		SC-12		1st Floor
	2	23.67		SC-13		1st Floor
	2	23.67		SC-14		1st Floor
	3	23.67		SC-15		1st Floor
Grand Total: 55						

qs-Structural Beams & Bracing Quantities									
Assembly Code	Assembly Description	Structural Members	Type	Description	Manufacturer	Model	Level	Length	Comments
2B-2A 8'x16"									
B10	Superstructure	Concrete-Rectangular Beam	2B-2A 8'x16"					8'-8"	
B10	Superstructure	Concrete-Rectangular Beam	2B-2A 8'x16"					8'-10 5/32"	
B10	Superstructure	Concrete-Rectangular Beam	2B-2A 8'x16"					10'-5"	
B10	Superstructure	Concrete-Rectangular Beam	2B-2A 8'x16"					8'-0"	
B10	Superstructure	Concrete-Rectangular Beam	2B-2A 8'x16"					9'-0"	
B10	Superstructure	Concrete-Rectangular Beam	2B-2A 8'x16"					8'-3 1/32"	
B10	Superstructure	Concrete-Rectangular Beam	2B-2A 8'x16"					8'-6"	
B10	Superstructure	Concrete-Rectangular Beam	2B-2A 8'x16"					8'-11 3/4"	
B10	Superstructure	Concrete-Rectangular Beam	2B-2A 8'x16"					7'-0"	
								18'-9 25/32"	
2B-3 8'x18"									
B10	Superstructure	Concrete-Rectangular Beam	2B-3 8'x18"					202'-7 1/2"	
2B-3 8'x18": 1									

Project 2-Structural Elements



Modelled RCC footing, column and beams



Structural Schedules



Structural Foundation Schedule			
Family and Type	Area	Length	Width
M_Footing-Rectangular: F3-2050x1850	8 m²	1850	2050
M_Footing-Rectangular: Footing_PCC	4 m²	1650	1350
M_Footing-Rectangular: Footing_PCC	4 m²	1650	1350
M_Footing-Rectangular: Footing_PCC	4 m²	1650	1350
M_Footing-Rectangular: F2-1650x1350	4 m²	1350	1650
M_Footing-Rectangular: Footing_PCC	4 m²	1650	1350
M_Footing-Rectangular: Footing_PCC	4 m²	1650	1350
M_Footing-Rectangular: F3-2050x1850	7 m²	1850	2050
M_Footing-Rectangular: F3-2050x1850	8 m²	1850	2050
M_Footing-Rectangular: F3-2050x1850	8 m²	1850	2050
M_Footing-Rectangular: Footing_PCC	4 m²	1650	1350
M_Pile Cap-Rectangular: f2 poc	2 m²	1450	1650
M_Pile Cap-Rectangular: f2 poc	2 m²	1450	1650
M_Pile Cap-Rectangular: f2 poc	2 m²	1450	1650
M_Pile Cap-Rectangular: f2 poc	2 m²	1450	1650
M_Pile Cap-Rectangular: f2 poc	2 m²	1450	1650
M_Pile Cap-Rectangular: f2 poc	2 m²	1450	1650
M_Pile Cap-Rectangular: f2 poc	2 m²	1450	1650
M_Pile Cap-Rectangular: f3 poc	4 m²	1920	2120
M_Pile Cap-Rectangular: f3 poc	4 m²	1920	2120
M_Pile Cap-Rectangular: f3 poc	4 m²	1920	2120
M_Pile Cap-Rectangular: f3 poc	4 m²	1920	2120
M_Footing-Rectangular: F1-800x800	1 m²	800	800
M_Pile Cap-Rectangular: F1PCC	1 m²	880	880

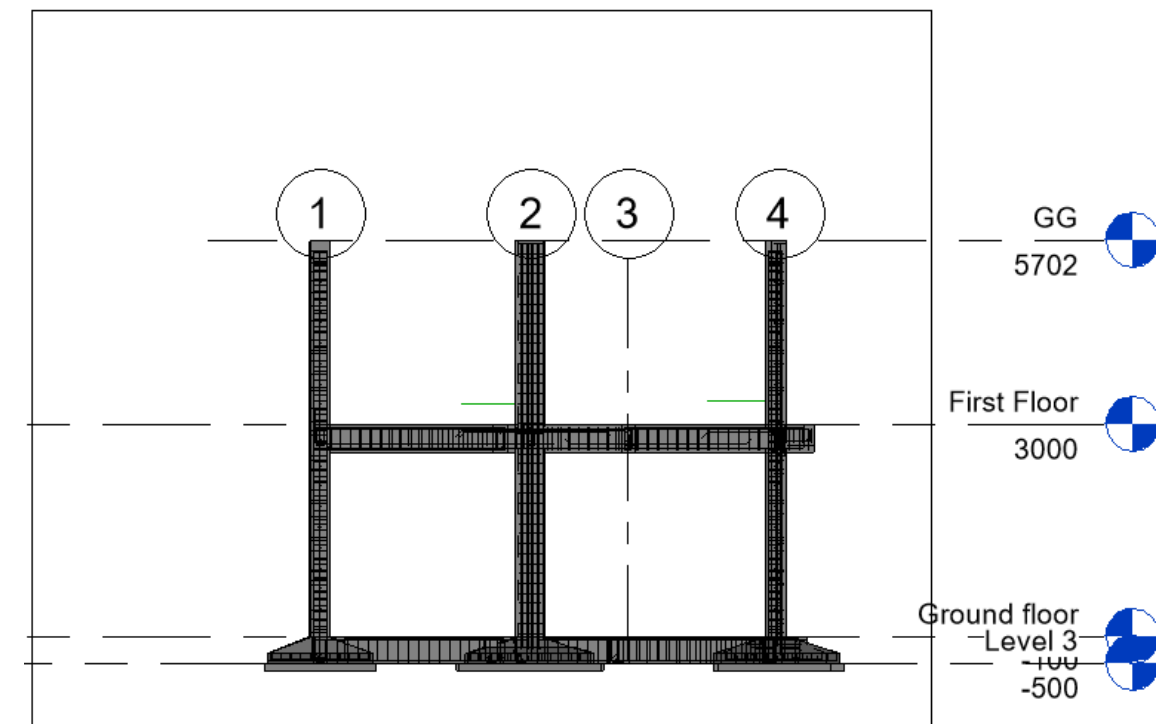
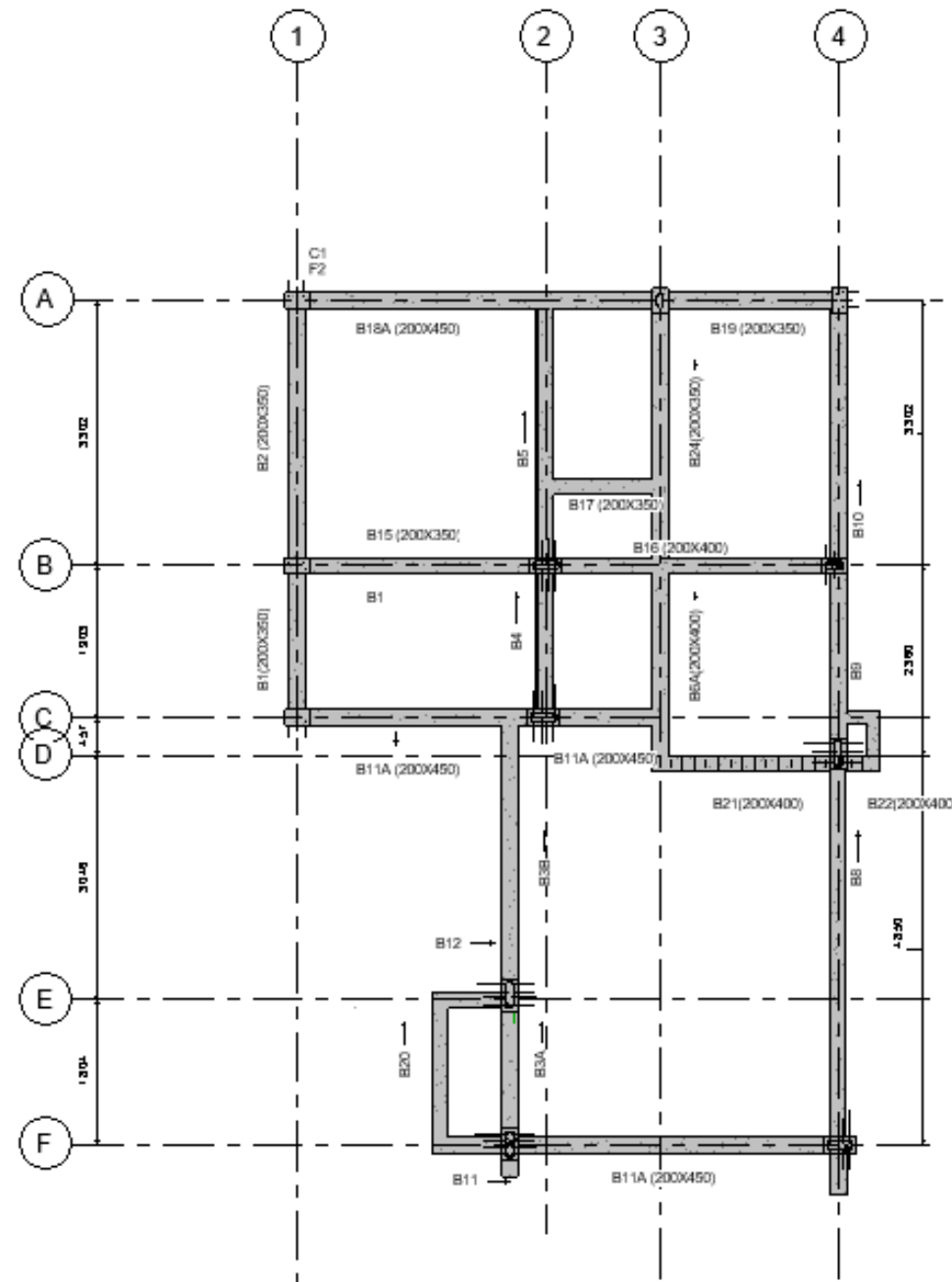
Structural Column Schedule		
Family and Type	Length	Volume
M_Concrete-Rectangular-Column: C3	5802	0.35 m³
M_Concrete-Rectangular-Column: C3	3100	0.19 m³
M_Concrete-Rectangular-Column: C3	8302	0.50 m³
M_Concrete-Rectangular-Column: C3	5802	0.35 m³
M_Concrete-Rectangular-Column: C3	5802	0.35 m³
M_Concrete-Rectangular-Column: C3	5802	0.35 m³
M_Concrete-Rectangular-Column: C5,8,9,10,11,12	5802	0.46 m³
M_Concrete-Rectangular-Column: C5,8,9,10,11,12	3100	0.25 m³
M_Concrete-Rectangular-Column: C5,8,9,10,11,12	5802	0.46 m³
M_Concrete-Rectangular-Column: C5,8,9,10,11,12	5802	0.46 m³
M_Concrete-Rectangular-Column: C5,8,9,10,11,12	5802	0.46 m³
M_Concrete-Rectangular-Column: C5,8,9,10,11,12	5802	0.46 m³

Analytical Beam Schedule		
Family Type	Count	Length

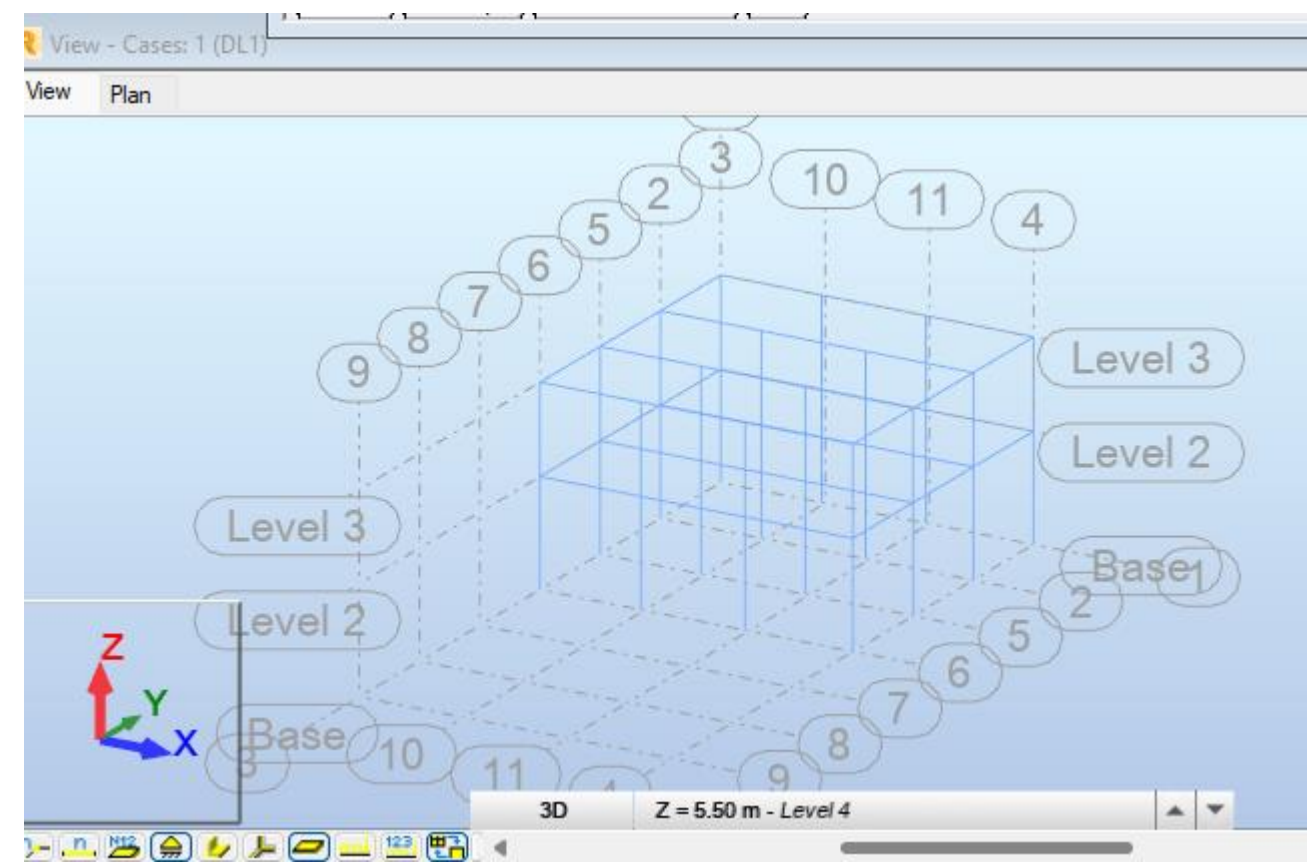
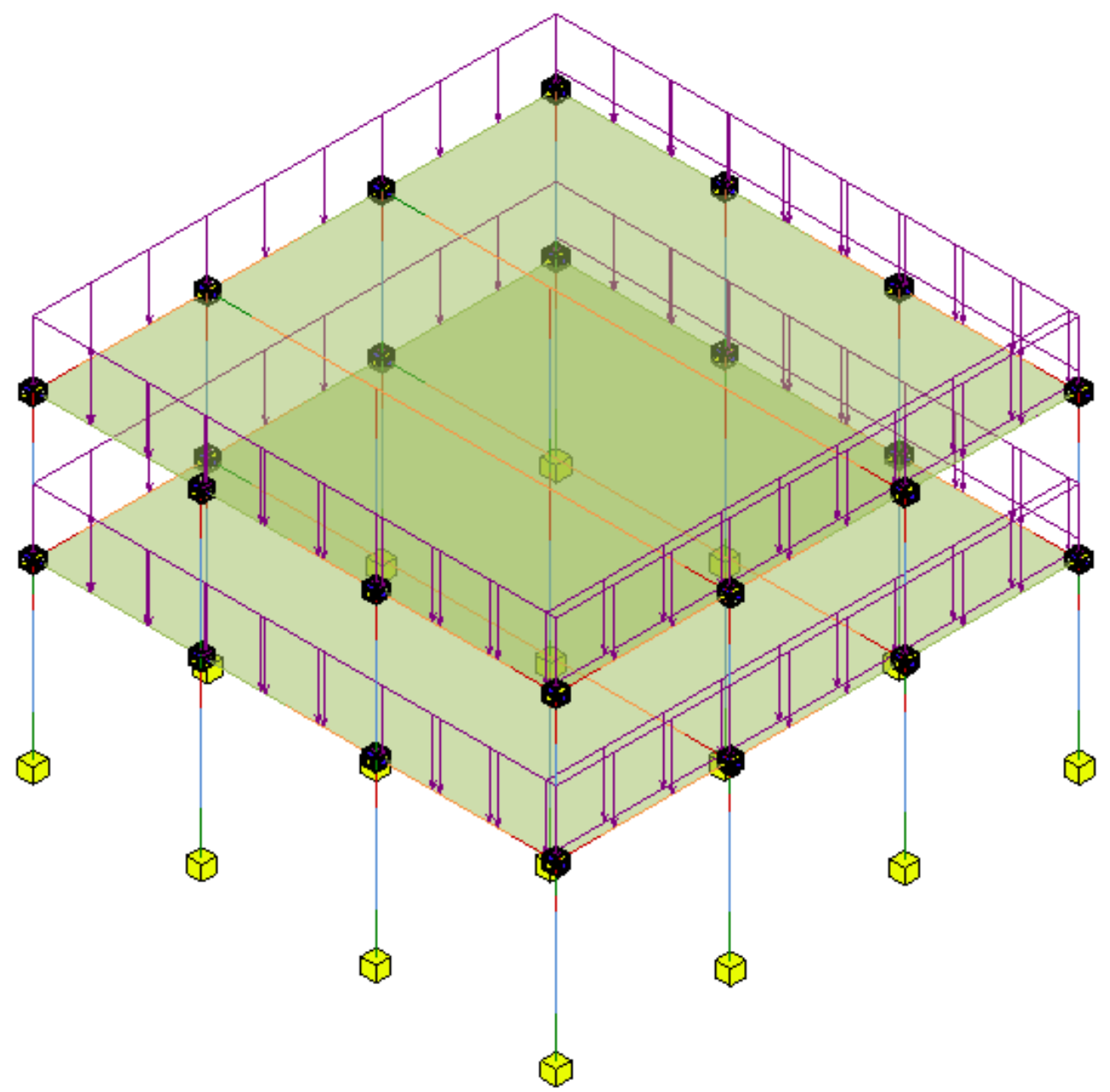
M_Concrete-Rectangular Beam : PB 200X400	1	2229
M_Concrete-Rectangular Beam : PB 200X400	1	4526
M_Concrete-Rectangular Beam : PB 200X400	1	3590
M_Concrete-Rectangular Beam : PB 200X400	1	3099
M_Concrete-Rectangular Beam : PB 200X400	1	3070
M_Concrete-Rectangular Beam : PB 200X400	1	4090
M_Concrete-Rectangular Beam : B1-200x350	1	1894
M_Concrete-Rectangular Beam : PB 200X400	1	3302
M_Concrete-Rectangular Beam : PB 200X400	1	3302
M_Concrete-Rectangular Beam : PB 200X400	1	3453
M_Concrete-Rectangular Beam : PB 200X400	1	6000
M_Concrete-Rectangular Beam : PB 200X400	1	3302
M_Concrete-Rectangular Beam : PB 200X400	1	4094
M_Concrete-Rectangular Beam : PB 200X400	1	2267
M_Concrete-Rectangular Beam : PB 200X400	1	1895
M_Concrete-Rectangular Beam : PB 200X400	1	2346
M_Concrete-Rectangular Beam : PB 200X400	1	1400
M_Concrete-Rectangular Beam : PB 200X400	1	1108
M_Concrete-Rectangular Beam : B1-200x350	1	3302
M_Concrete-Rectangular Beam : B1-200x350	1	5196
M_Concrete-Rectangular Beam : B1-200x350	1	2229

Rebar Schedule					
Bar Diameter	Rebar Number	Bar Length	Quantity	Total Bar Length	Bend Diameter

16 mm	135	6230 mm	1	6230 mm	95 mm
16 mm	4	6220 mm	1	6220 mm	95 mm
16 mm	4	6220 mm	1	6220 mm	95 mm
16 mm	4	6220 mm	1	6220 mm	95 mm
8 mm	191	800 mm	40	32000 mm	40 mm
12 mm	190	6170 mm	1	6170 mm	80 mm
12 mm	189	6130 mm	1	6130 mm	80 mm
8 mm	12	470 mm	1	470 mm	60 mm
8 mm	16	470 mm	1	470 mm	60 mm
8 mm	16	470 mm	58	27260 mm	60 mm
8 mm	16	470 mm	1	470 mm	60 mm
8 mm	17	170 mm	39	6630 mm	60 mm
10 mm	20	2120 mm	13	27560 mm	60 mm
10 mm	19	1380 mm	11	15180 mm	60 mm
10 mm	18	1580 mm	10	15800 mm	60 mm
10 mm	19	1380 mm	11	15180 mm	60 mm
10 mm	18	1580 mm	10	15800 mm	60 mm
10 mm	19	1380 mm	11	15180 mm	60 mm
10 mm	18	1580 mm	10	15800 mm	60 mm
10 mm	19	1380 mm	11	15180 mm	60 mm
10 mm	18	1580 mm	10	15800 mm	60 mm
10 mm	19	1380 mm	11	15180 mm	60 mm
10 mm	18	1580 mm	10	15800 mm	60 mm
10 mm	19	1380 mm	11	15180 mm	60 mm
10 mm	18	1580 mm	10	15800 mm	60 mm
10 mm	19	1380 mm	11	15180 mm	60 mm
10 mm	18	1580 mm	10	15800 mm	60 mm
10 mm	19	1380 mm	11	15180 mm	60 mm
10 mm	18	1580 mm	10	15800 mm	60 mm
10 mm	19	1380 mm	11	15180 mm	60 mm
10 mm	18	1580 mm	10	15800 mm	60 mm
10 mm	19	1380 mm	11	15180 mm	60 mm
10 mm	18	1580 mm	10	15800 mm	60 mm
10 mm	19	1380 mm	9	14220 mm	60 mm



Structural Analysis



Reactions in the coordinate system: global - Cases: 1to10

Node/Case	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)	MY (kNm)	MZ (kNm)
26/ 10 (C)	0.0	0.0	154.21	0.0	0.0	0.0
27/ 1	0.0	0.0	158.91	0.0	0.0	0.0
27/ 2	0.0	0.0	0.0	0.0	0.0	0.0
27/ 3	0.0	0.0	0.0	0.0	0.0	0.0
27/ 4	0.0	0.0	0.0	0.0	0.0	0.0
27/ 5	0.0	0.0	0.0	0.0	0.0	0.0
27/ 6	0.0	0.0	0.0	0.0	0.0	0.0
27/ 7	0.0	0.0	0.0	0.0	0.0	0.0
27/ 8	0.0	0.0	0.0	0.0	0.0	0.0
27/ 9 (C)	0.0	0.0	190.70	0.0	0.0	0.0
27/ 10 (C)	0.0	0.0	158.91	0.0	0.0	0.0
28/ 1	0.0	0.0	116.10	0.0	0.0	0.0
28/ 2	0.0	0.0	0.0	0.0	0.0	0.0
28/ 3	0.0	0.0	0.0	0.0	0.0	0.0
28/ 4	0.0	0.0	0.0	0.0	0.0	0.0
28/ 5	0.0	0.0	0.0	0.0	0.0	0.0
28/ 6	0.0	0.0	0.0	0.0	0.0	0.0
28/ 7	0.0	0.0	0.0	0.0	0.0	0.0
28/ 8	0.0	0.0	0.0	0.0	0.0	0.0
28/ 9 (C)	0.0	0.0	139.33	0.0	0.0	0.0
28/ 10 (C)	0.0	0.0	116.10	0.0	0.0	0.0
29/ 1	-0.10	0.10	-0.00	-24.42	-22.12	-0.00

Values Envelope Global extremes Info

Project-3 Hunters Point Shipyard Phase 1 Blocks 52&54

Hunters Point Shipyard Phase 1 Block 52&54
151 and 351 Friedell Street, San Francisco, California
(HPSY)

Community room and lounge, fitness room and a
restaurant service office
The development

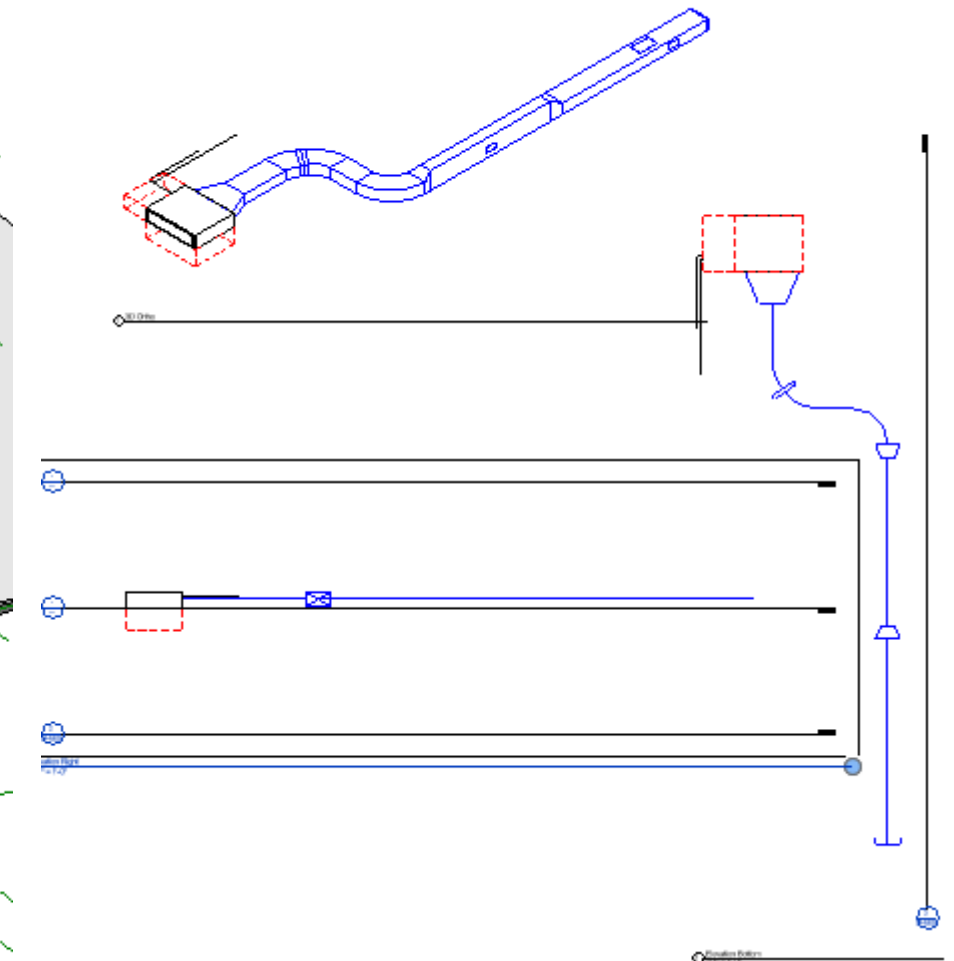
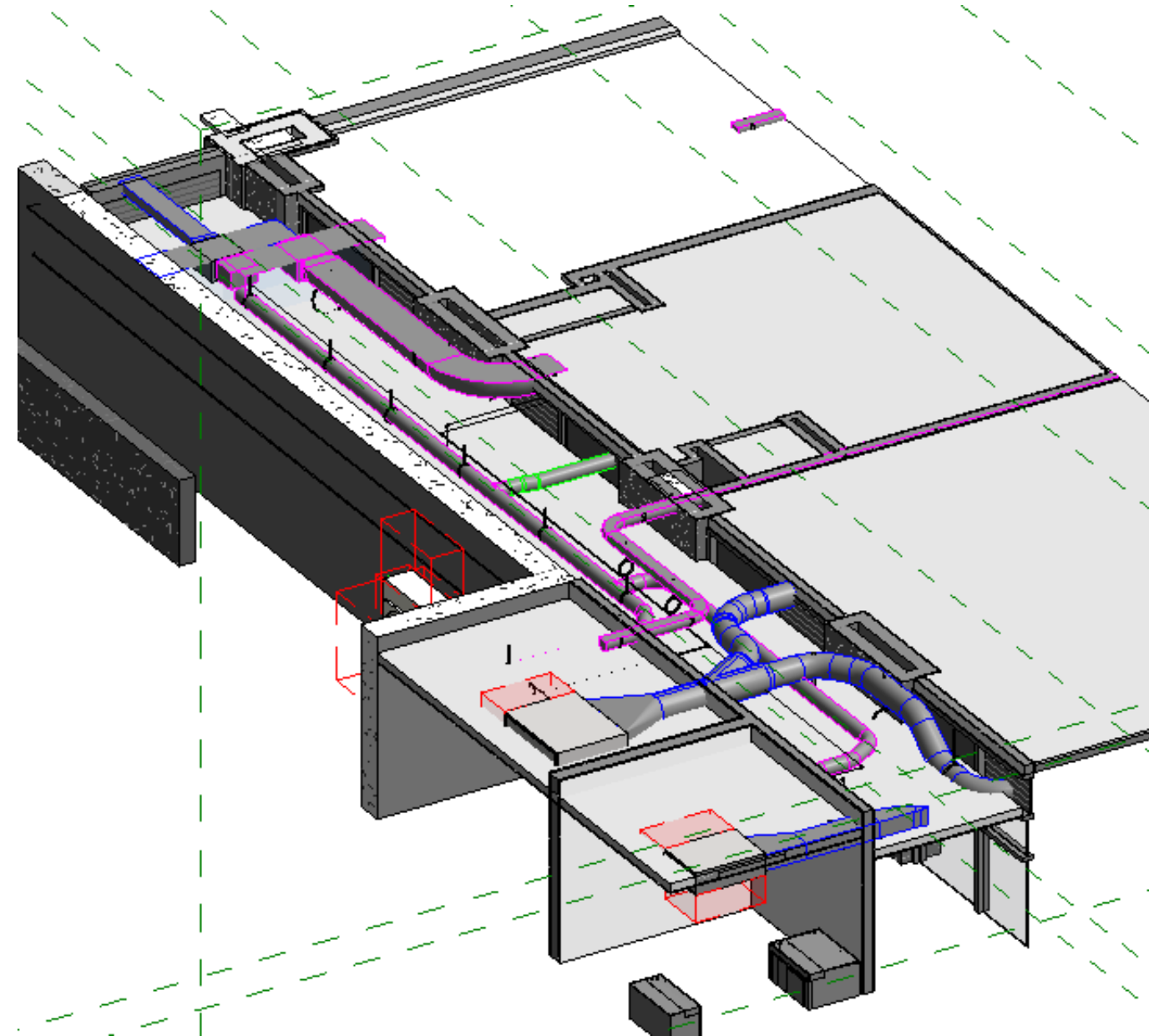
Started May 2023
Completion June 2025



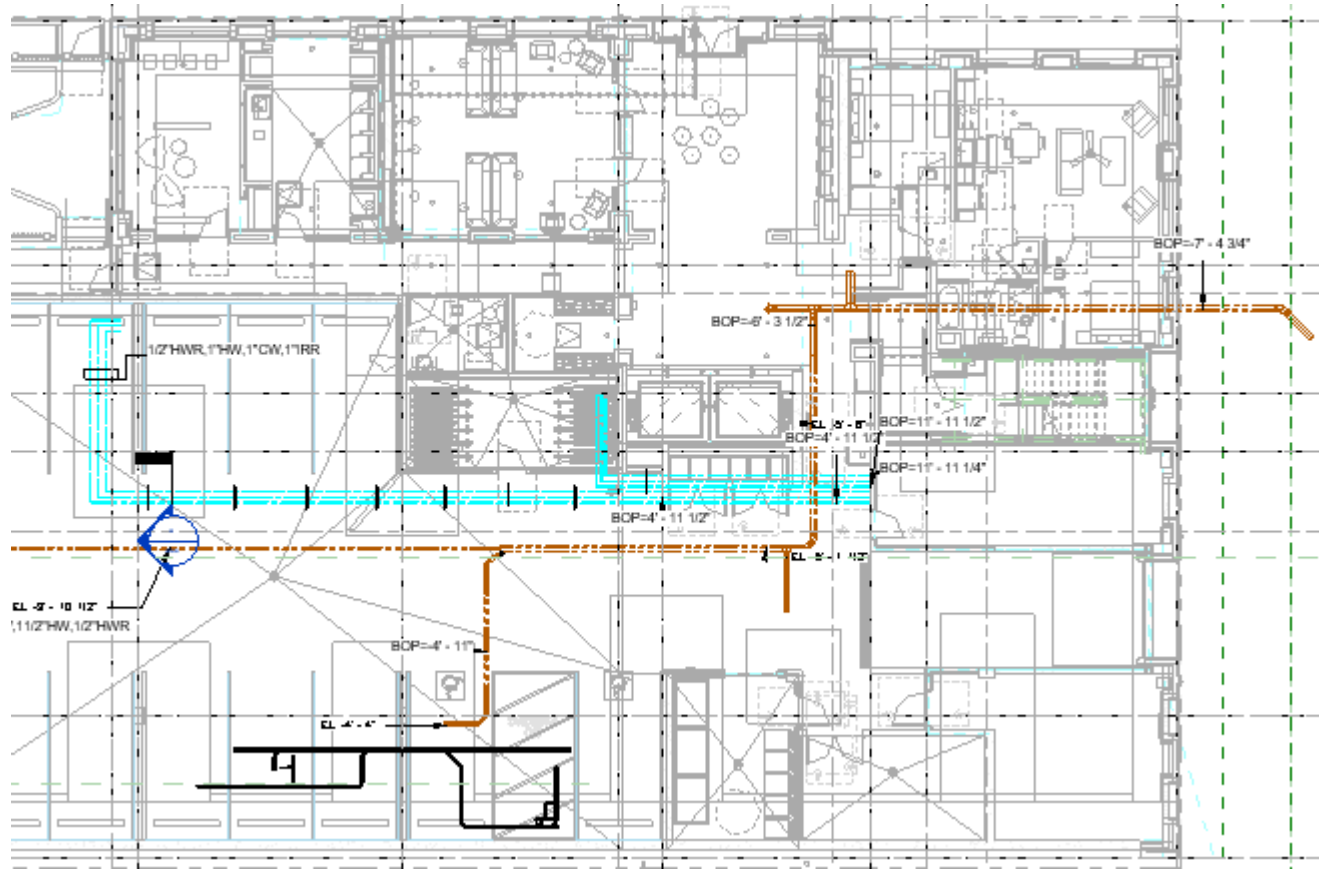
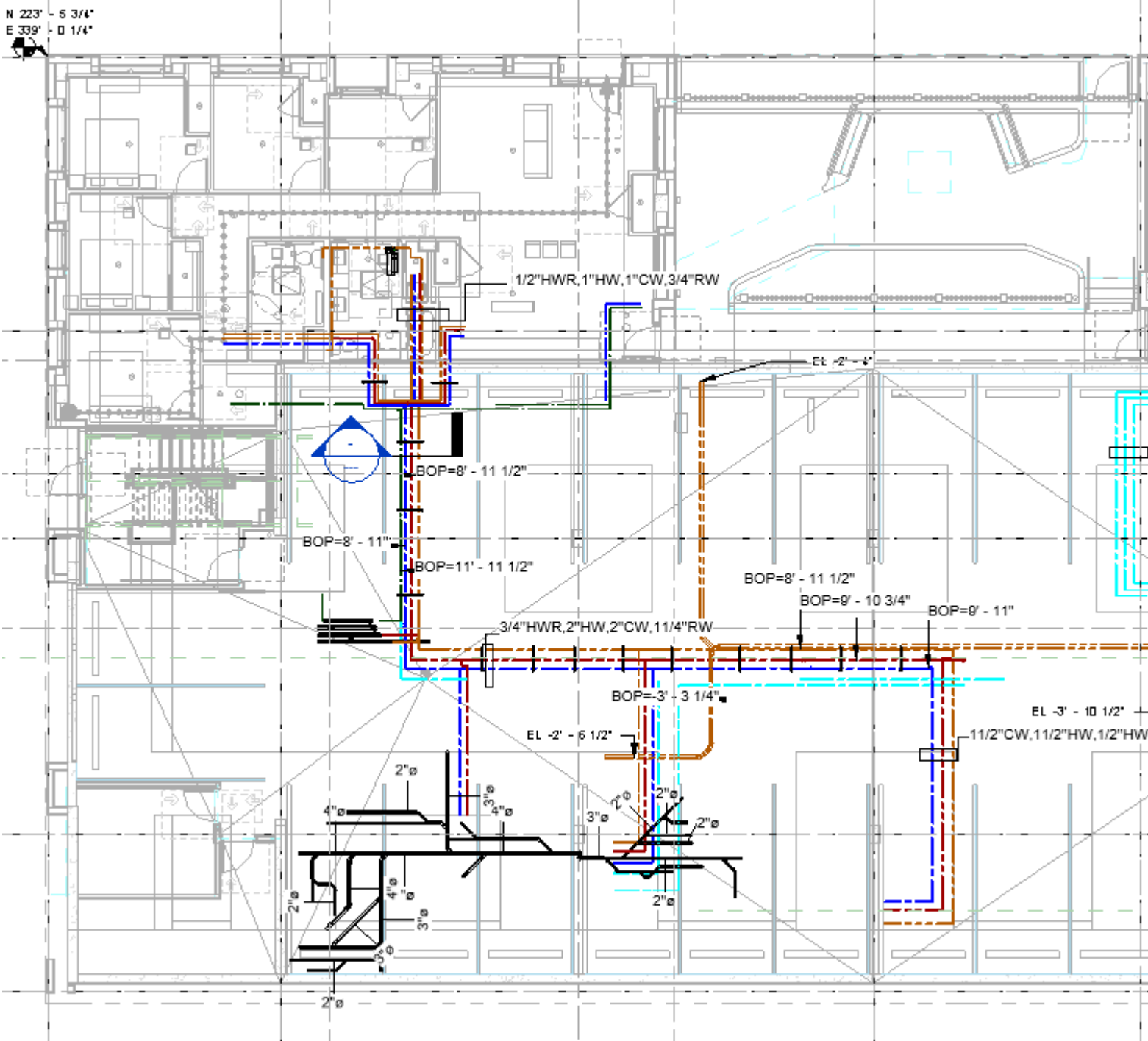
HVAC modeling

Air Terminal Schedule			
Family and Type	Elevation from Level	CFM	Core Velocity max.
Titus 300, 301 - Louvered Supply Grilles: SG-2	0' - 9 1/16"	0 CFM	0 FPM
Titus 300, 301 - Louvered Supply Grilles: SG-2	9' - 3 3/8"	0 CFM	0 FPM
Titus 300, 301 - Louvered Supply Grilles: SG-2	84' - 5 5/32"	0 CFM	0 FPM
Louver - Extruded: LVR-E	10' - 8 29/32"		
Titus 300, 301 - Louvered Supply Grilles: SG-2	0' - 0"	315 CFM	0 FPM
Titus 350 (F, R, Z) - Louvered Return Grilles, Face Base, Revit 2017, R1.2: 350RL	10' - 8 29/32"		0 FPM
Titus 350 (F, R, Z) - Louvered Return Grilles, Generic, Revit 2017, R1.2: 350RL	60' - 0"		0 FPM
Louver - Extruded: 56"x16"louver	4' - 0"		
M_Supply Diffuser - Sidewall: 48X18 EG2	10' - 5"		
M_Supply Diffuser - Sidewall: 48X18 EG2	10' - 5"		
M_Supply Diffuser - Sidewall: 48X18 EG2	0' - 0"		
Titus 300, 301 - Louvered Supply Grilles: SG-2	-1' - 9 31/32"	315 CFM	0 FPM
Supply Titus OMNI (AA): SG-1-6"	0' - 0"		
Supply Titus OMNI (AA): SG-1-4"	10' - 5"		
Supply Titus OMNI (AA): SG-1-4"	10' - 5"		
Louver - Extruded: LVR-S	-113' - 8 17/32"		
Louver - Extruded: LVR-E	10' - 10"		
Titus 300, 301 - Louvered Supply Grilles: SG-2	-1' - 9 31/32"	315 CFM	0 FPM

Duct System Schedule			
Count	Family and Type	Number of Elements	Type
1	Duct System: Supply Air	1	Supply Air
1	Duct System: Supply Air	1	Supply Air
1	Duct System: Supply Air	2	Supply Air
1	Duct System: Return Air	0	Return Air
1	Duct System: Supply Air	1	Supply Air
1	Duct System: Exhaust Air	1	Exhaust Air
1	Duct System: Exhaust Air	0	Exhaust Air
1	Duct System: Return Air	1	Return Air
1	Duct System: Return Air	1	Return Air



Plumbing System



Modelled Plumbing system,CW,HWR,RE,HW and UG pipes

Plumbing System



GENERAL SHEET NOTES

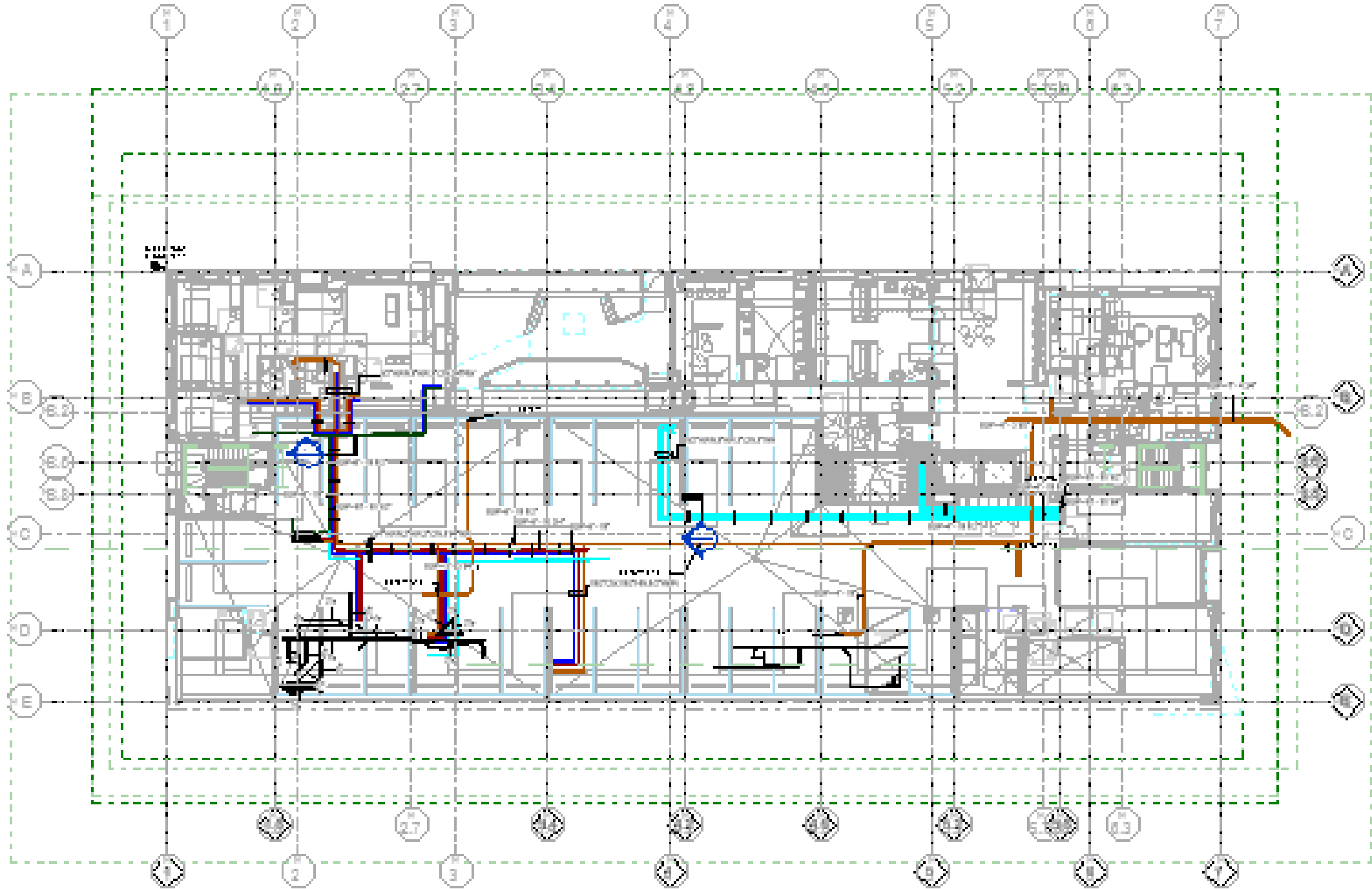
1. PIPE SEISMIC AS PER SMACNA.
2. ALL TRAP PRIMERS FROM RECLAIMED WATER SERVICE
3. PIPE HANGER SUPPORTS PER PIPING DETAILS
4. PIPE INSULATION PER CA ENERGY CODE T-24
5. PIPE SUPPORT SPACING PER CODE
6. ALL RECYCLED NON-POTABLE WATER PIPE AND FITTINGS TO BE CONTINUOUSLY WRAPPED WITH PURPLE COLOURED MYLAR TAPE AND LABELLED "CAUTION RECYCLED WATER, DO NOT DRINK"
7. ALL IRRIGATION SERVED FROM NON-POTABLE WATER SOURCE
8. TYPICAL UNIT SHUT-OFF ISOLATION VALVES, PROVIDE WITH 18"X18" CEILING ACCESS PANEL, REFERENCE PLANS FOR LOCATIONS, TYPICALLY WITHIN UNIT CLOSET SPACE.

SHEET NOTES

1. IRRIGATION DOWN TO UNDERGROUND
2. CAP IRRIGATION LINE ABOVE BOTTOM OF PLANTER, FOR CONTINUATION BY OTHERS.
3. ASHP MULTI-UNIT CONTROLLER COORDINATE POWER
4. REDUCED BACKFLOW PREVENTER INSTALLATIONS, PIPE DRAIN LINE TO ADJACENT FLOOR SINK.

FIXTURE NOTES

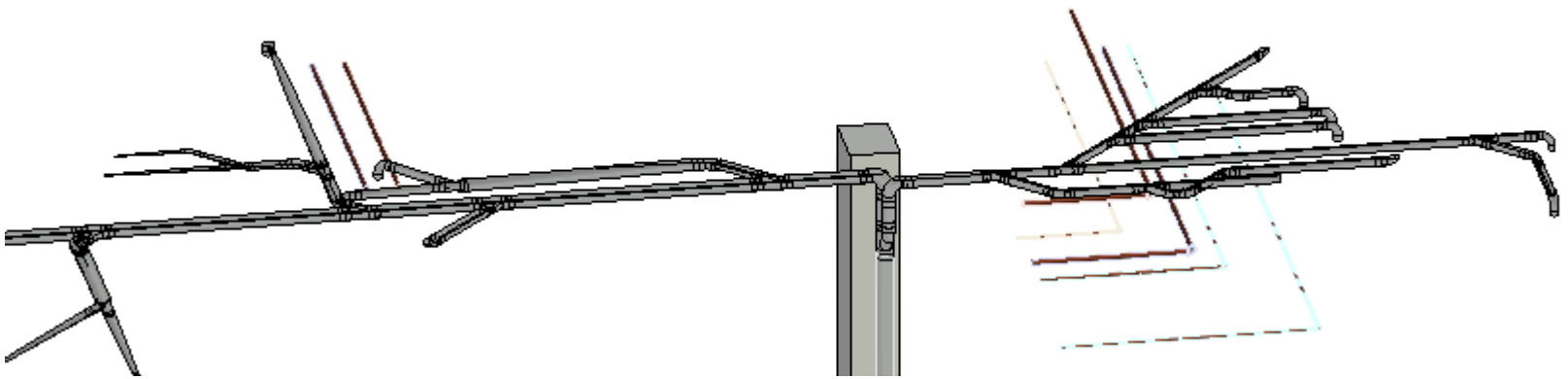
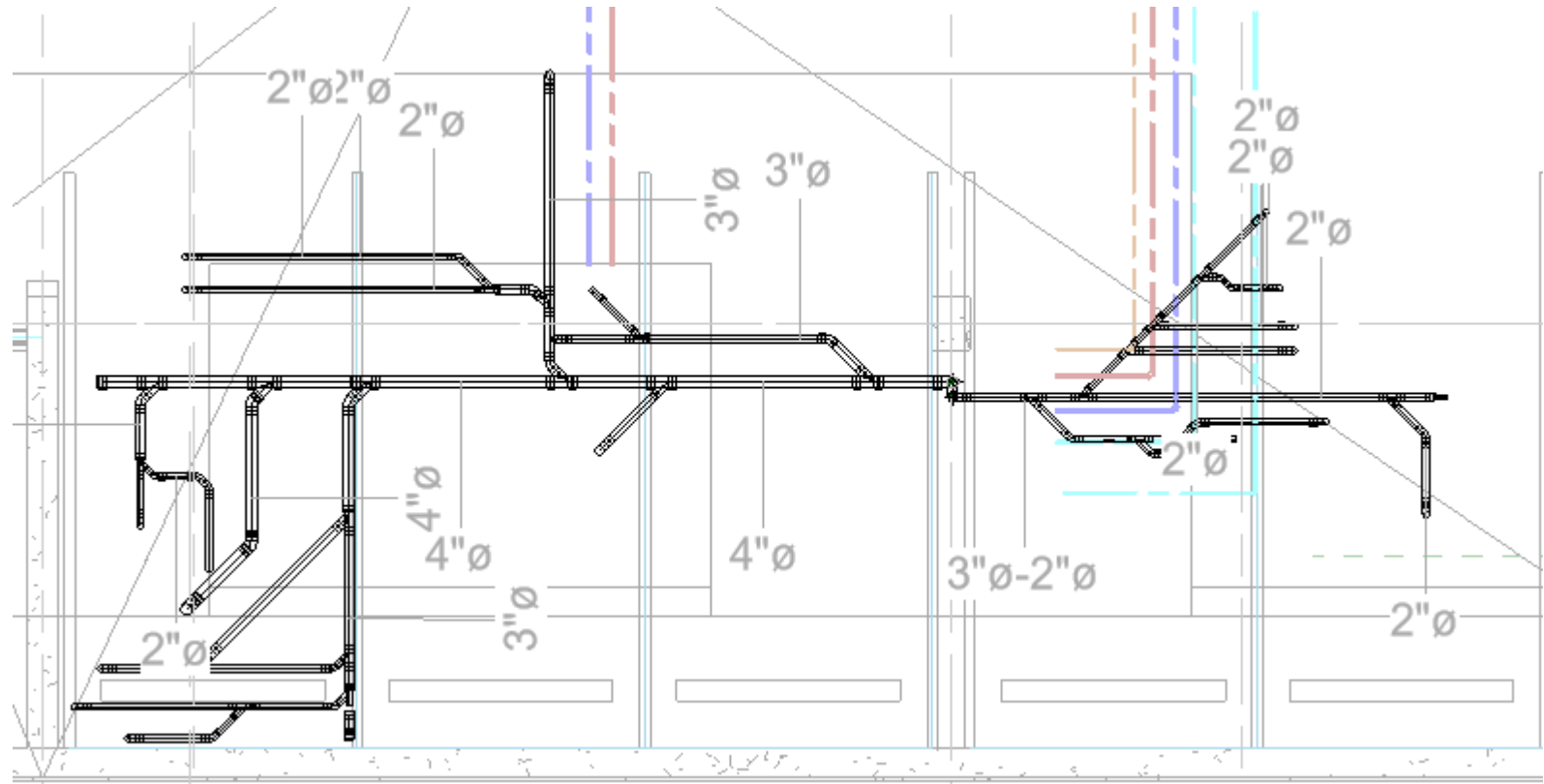
1. ALL TRAP PRIMERS FROM RECLAIMED WATER SERVICE
2. ALL WATER CLOSETS SERVED FROM RECLAIMED WATER



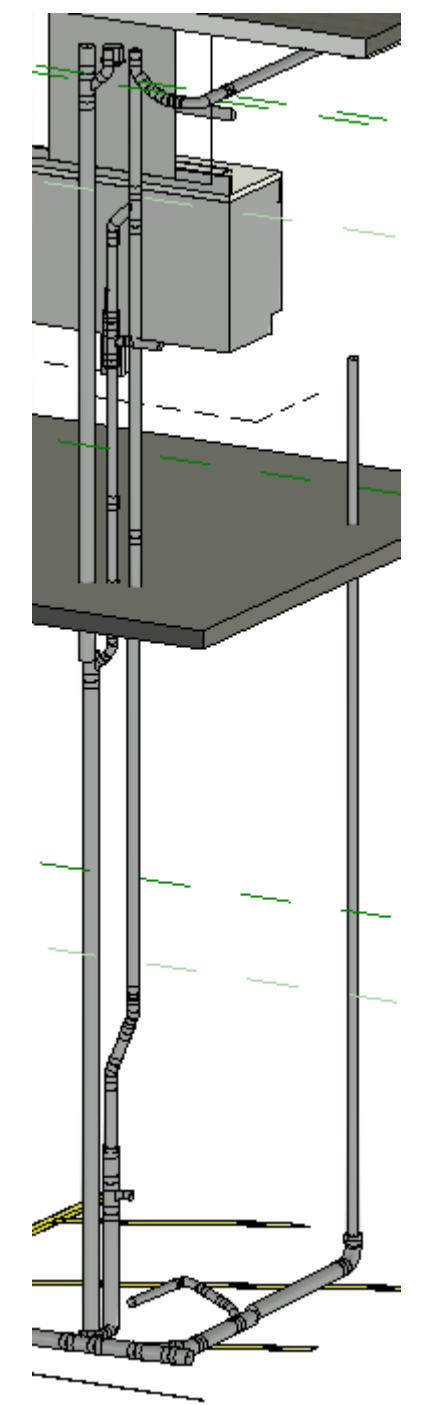
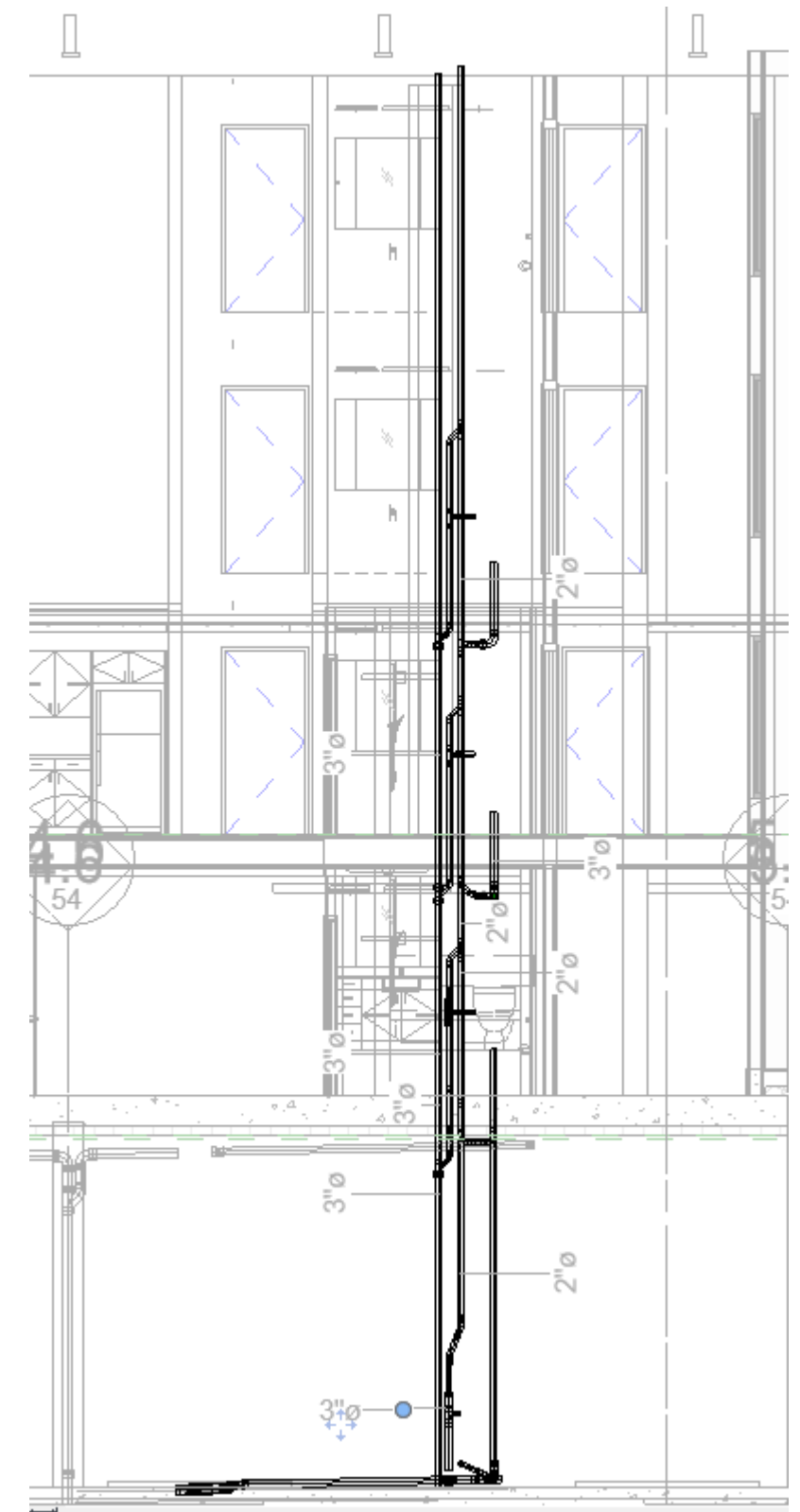
Plumbing System

<Pipe Schedule>

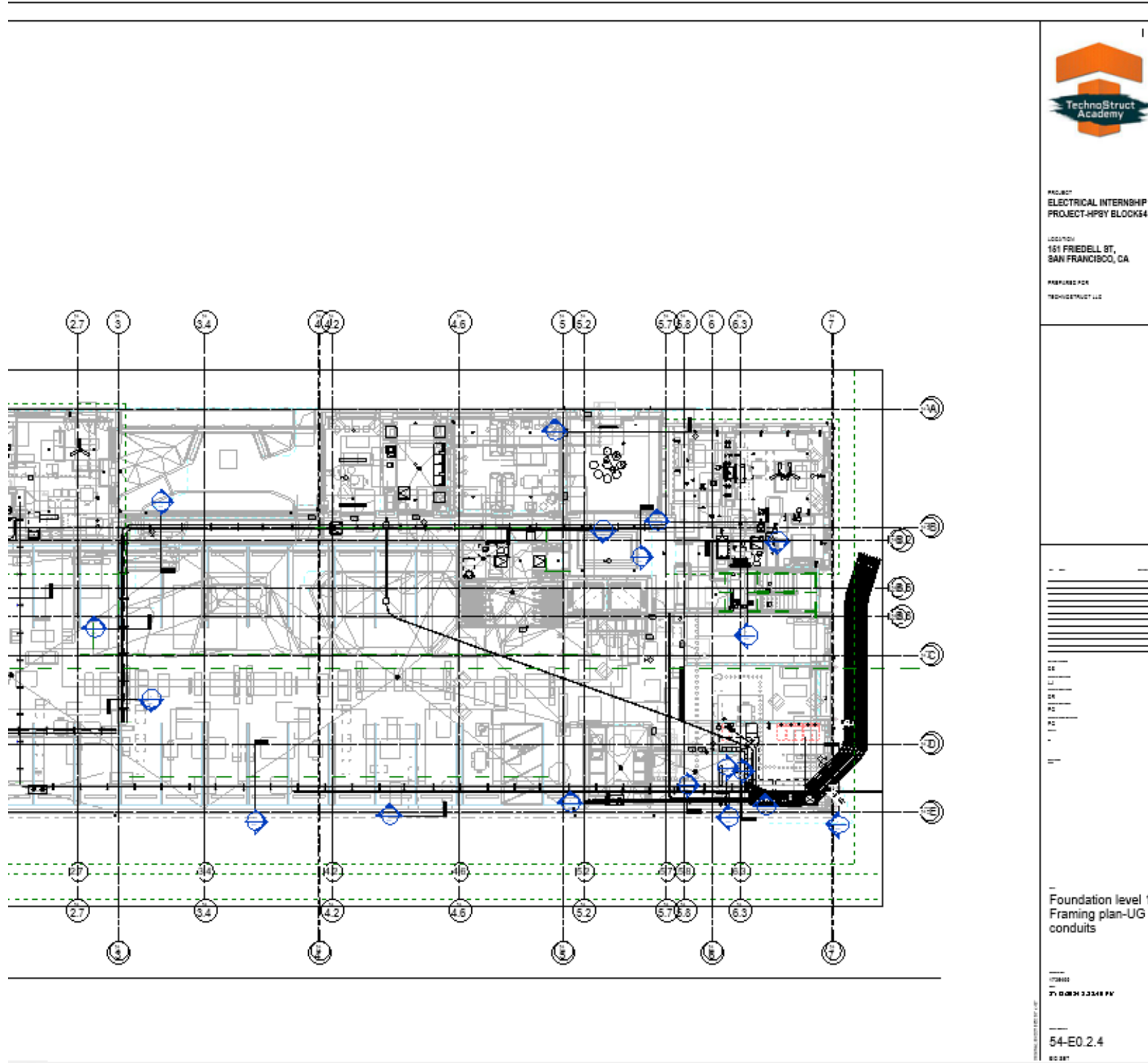
A	B
Length	Family and Type
13' - 6 1/2"	Pipe Types: I copper
12' - 3 1/2"	Pipe Types: I copper
12' - 4 3/4"	Pipe Types: I copper
28' - 2"	Pipe Types: I copper
28' - 6 1/2"	Pipe Types: I copper
29' - 1 1/4"	Pipe Types: I copper
82' - 2 1/2"	Pipe Types: I copper
83' - 0 1/4"	Pipe Types: I copper
21' - 3 1/2"	Pipe Types: I copper
16' - 11 3/4"	Pipe Types: I copper
19' - 2 1/2"	Pipe Types: I copper
81' - 4 1/4"	Pipe Types: I copper
16' - 9 1/2"	Pipe Types: I copper
22' - 6 1/4"	Pipe Types: I copper
10' - 2 1/4"	Pipe Types: I copper
10' - 1"	Pipe Types: I copper
13' - 5 3/4"	Pipe Types: I copper
12' - 6 3/4"	Pipe Types: I copper
10' - 9 1/4"	Pipe Types: I copper
18' - 6 1/4"	Pipe Types: I copper
14' - 2"	Pipe Types: I copper
13' - 11"	Pipe Types: I copper
18' - 4"	Pipe Types: I copper
18' - 4"	Pipe Types: I copper
18' - 2"	Pipe Types: I copper
19' - 4 3/4"	Pipe Types: I copper
27' - 1 1/4"	Pipe Types: I copper



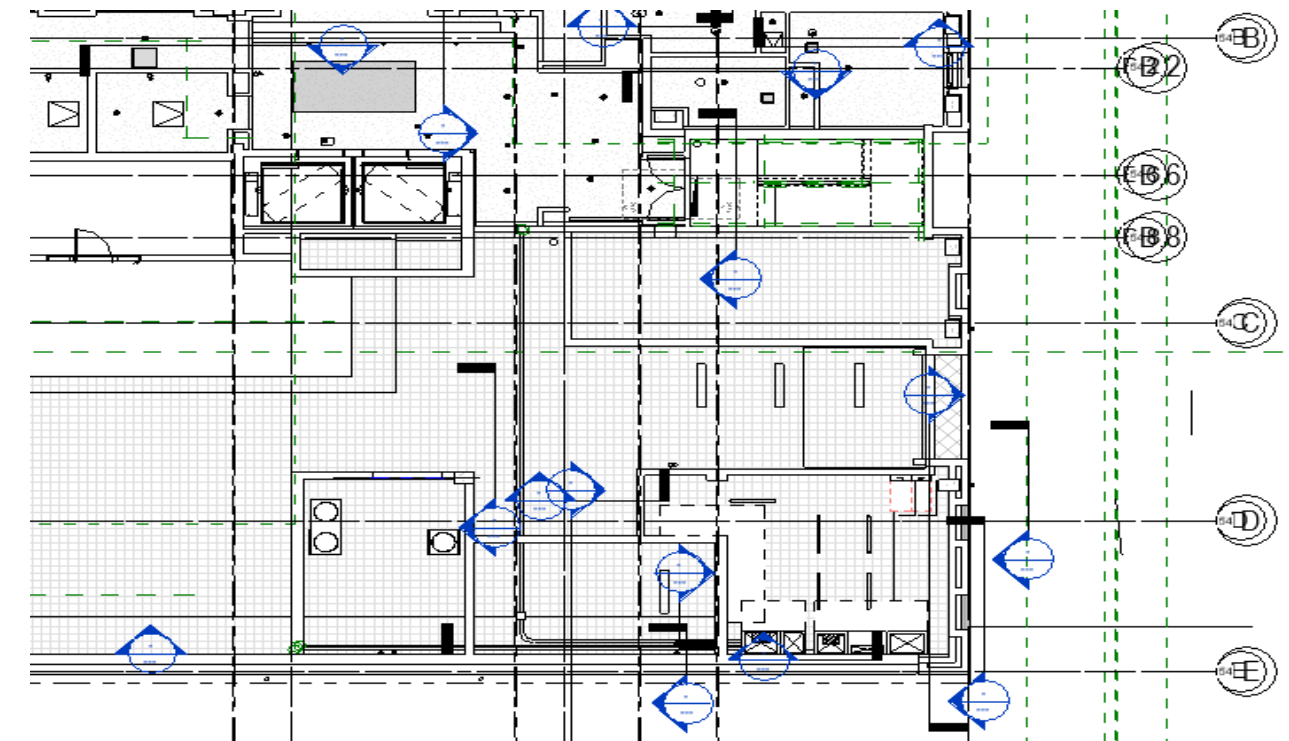
Modelled Riser Diagram and prepared schedules



Electrical System

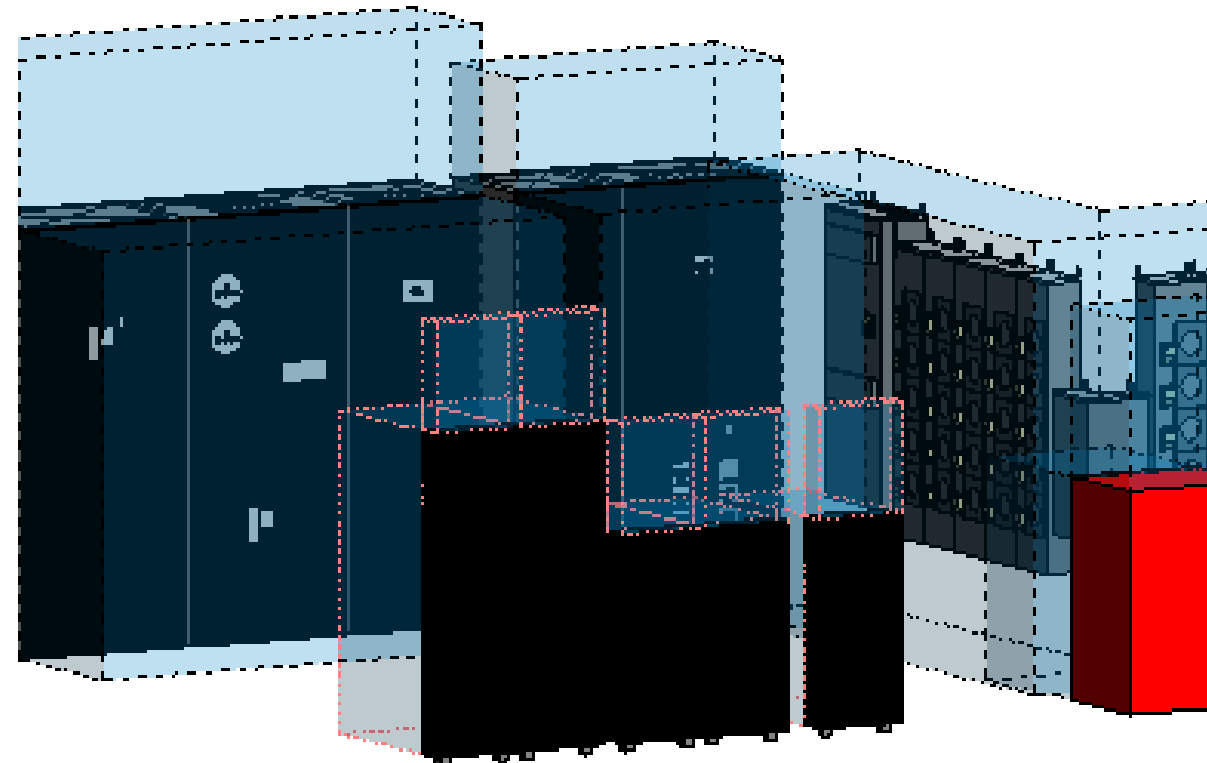


Conduit Run Schedule 2		
Diameter (Trade Size)	Family and Type	Length
5"	Conduit without Fittings: PVC Conduit	9' - 4 3/4"
3"	Conduit without Fittings: PVC Conduit	12' - 10 7/8"
3"	Conduit without Fittings: PVC Conduit	17' - 1 7/8"
3"	Conduit without Fittings: PVC Conduit	17' - 4 7/8"
1 1/2"	Conduit without Fittings: Electrical Metallic Tubing (EMT)	46' - 8 3/4"
1 1/2"	Conduit without Fittings: Electrical Metallic Tubing (EMT)	12' - 0"
1 1/2"	Conduit without Fittings: Electrical Metallic Tubing (EMT)	10' - 11"
1 1/2"	Conduit without Fittings: Electrical Metallic Tubing (EMT)	19' - 3 1/4"
2 1/2"	Conduit without Fittings: Electrical Metallic Tubing (EMT)	15' - 6 5/8"
1 1/2"	Conduit without Fittings: Electrical Metallic Tubing (EMT)	98' - 8"
2 1/2"	Conduit without Fittings: Electrical Metallic Tubing (EMT)	23' - 8 1/2"
1 1/2"	Conduit without Fittings: Electrical Metallic Tubing (EMT)	74' - 0 5/8"
1 1/2"	Conduit without Fittings: Electrical Metallic Tubing (EMT)	69' - 9 1/4"
1 1/2"	Conduit without Fittings: Electrical Metallic Tubing (EMT)	69' - 11 1/8"
1 1/2"	Conduit without Fittings: Electrical Metallic Tubing (EMT)	79' - 6 3/8"
5"	Conduit without Fittings: PVC Conduit	48' - 5 5/8"
5"	Conduit without Fittings: PVC Conduit	14' - 11 1/2"

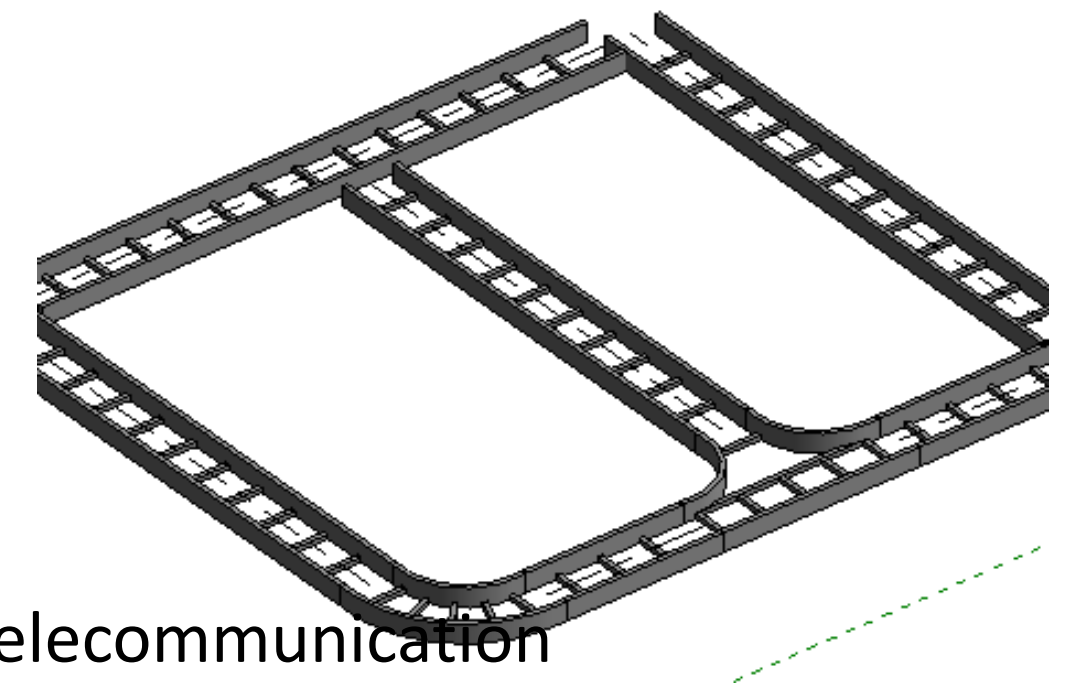
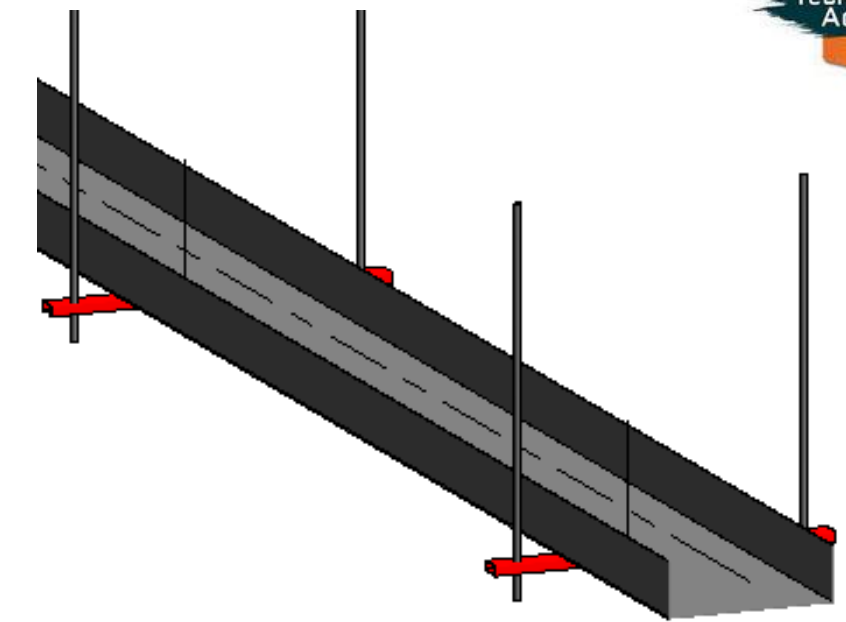


Electrical Equipments

Cable Tray Schedule		
Size	Type	Length
12"x4"	Wire Mesh Cable Tray	41' - 6 1/8"
12"x4"	Wire Mesh Cable Tray	118' - 2 1/8"
12"x4"	Ladder Cable Tray	2' - 9 3/4"
12"x4"	Ladder Cable Tray	8' - 11 7/8"
12"x4"	Ladder Cable Tray	10' - 6"
12"x4"	Ladder Cable Tray	10' - 0"
12"x4"	Ladder Cable Tray	7' - 11 7/8"
12"x4"	Ladder Cable Tray	3' - 5 3/4"
12"x4"	Wire Mesh Cable Tray	43' - 6"

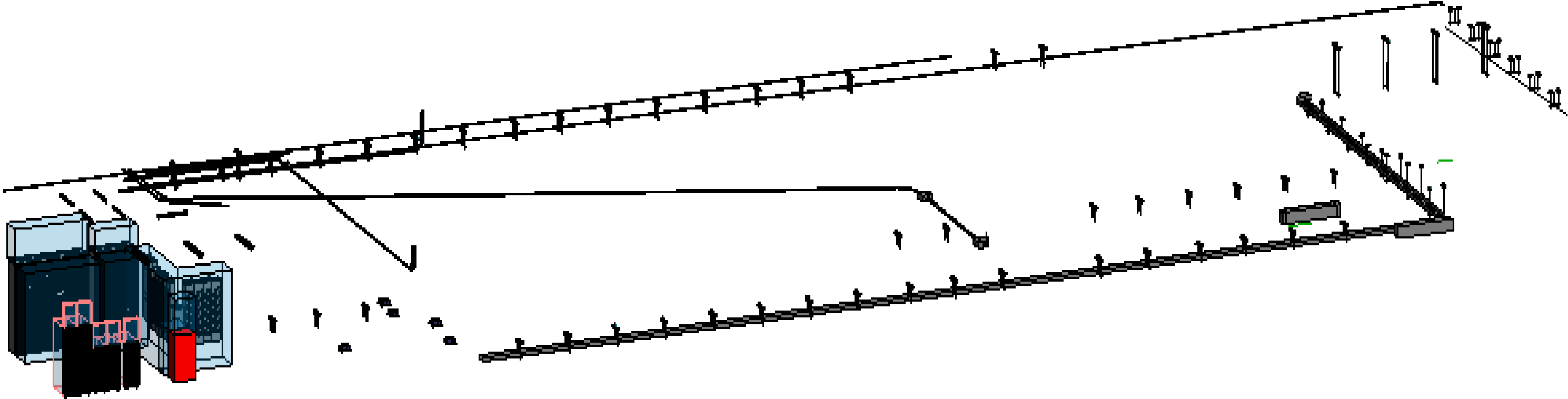


Cable Tray Run Schedule		
Family and Type	Height	Length
Cable Tray without Fittings: Wire Mesh Cable Tray	4"	208' - 10 7/8"

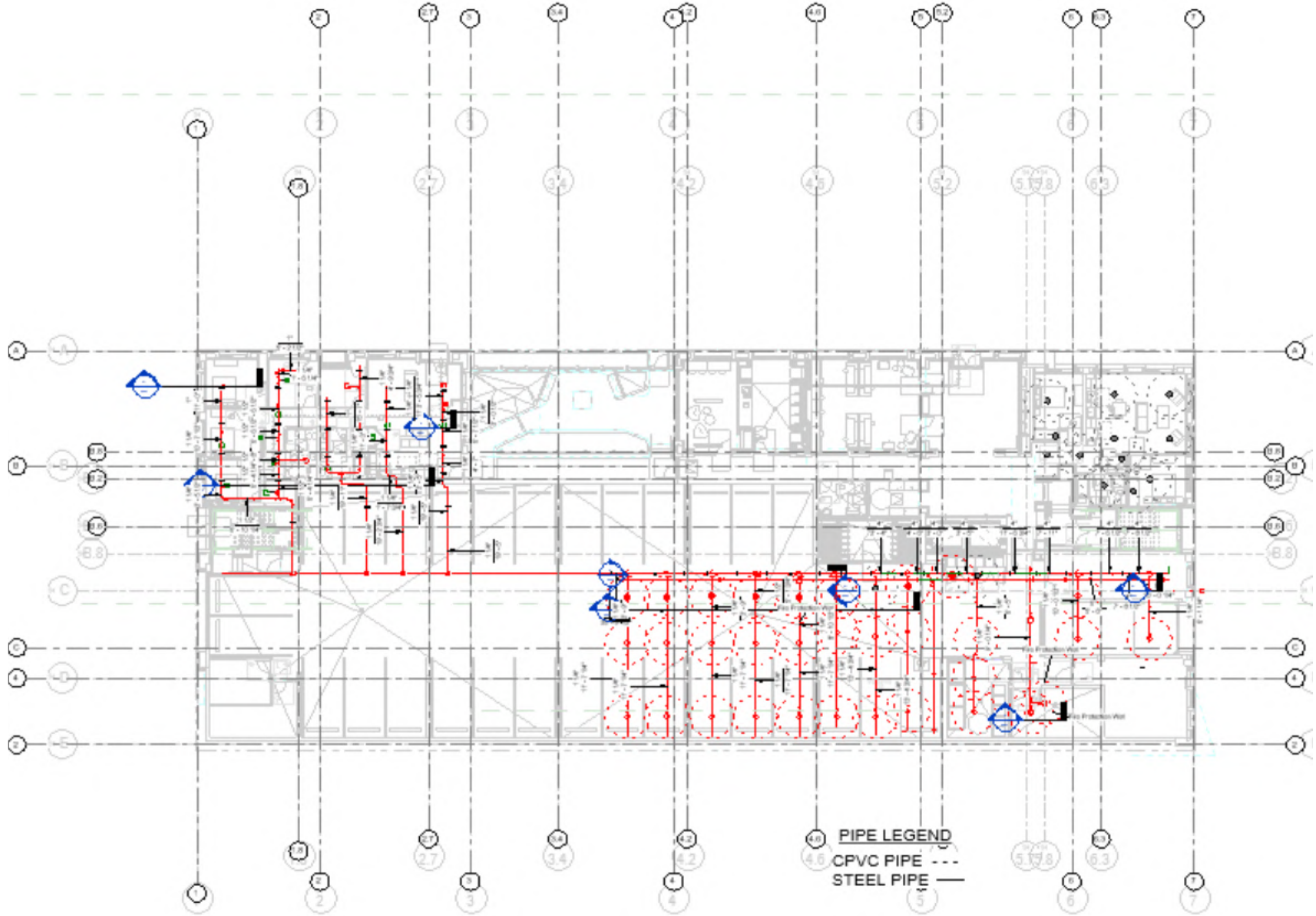


Modelled equipments, cabletray, lighting and telecommunication devices

Electrical Equipments-3D view



Fire fighting System

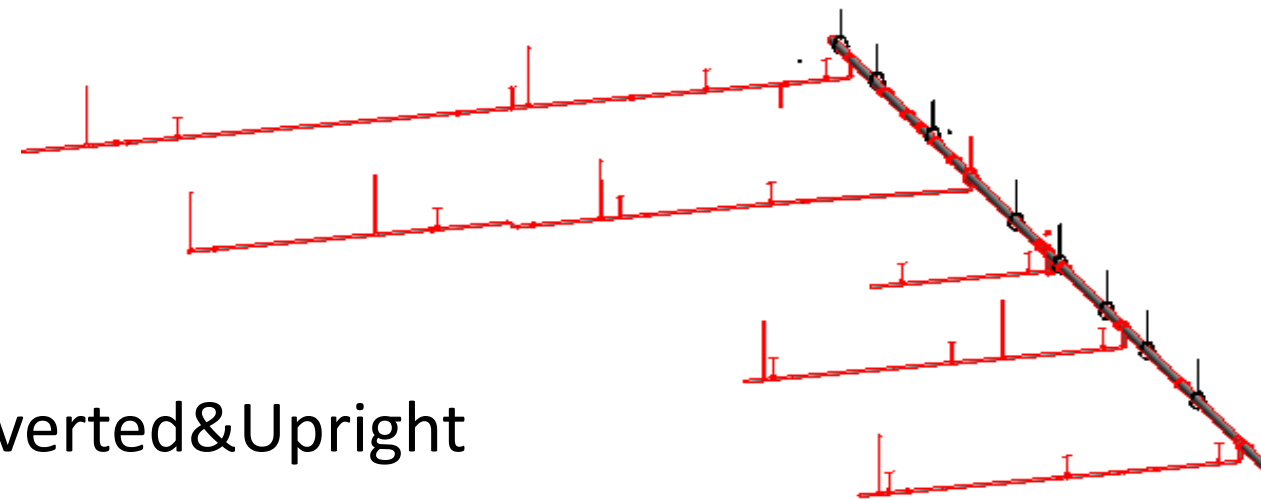
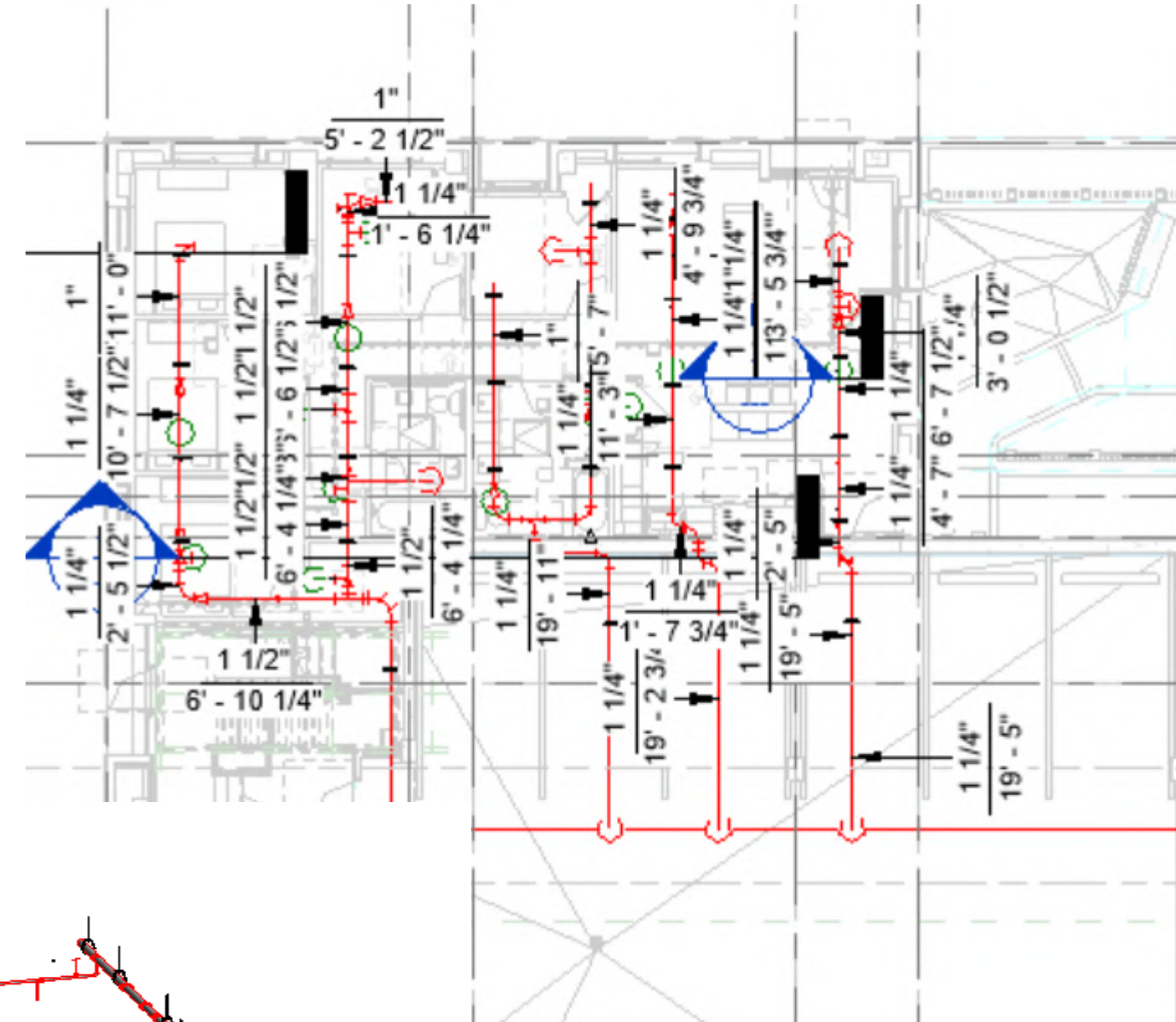


Firefighting Equipments

Sprinkler Schedule		
Family	Type	Count
AB_Sprinkler_Pendent Reces_QR-SC_W	DN 15 Temp 72 60 Orif 13 mm	12
AB_Sprinkler_Pendent_SR-SC_W_White	DN 15 Temp 57 Orif 13 mm	1
AB_Sprinkler_Pendent_SR-SC_W_White	DN 15 Temp 68 Orif 13 mm	10
AB_Sprinkler_Upright_SR-SC_W-D-P	12	2
AB_Sprinkler_Upright_SR-SC_W-D-P	DN 15 Temp 68 Orif 13 mm	26
G51B	RASCO G556 CONCEALED	22
Mking Sprinkler_Pendent	DN 15 Temp 57 Orif 13 mm	1

Pipe Fitting Schedule		
Family	Type	Count
Bend - PVC - Sch 40 - DWV	Standard	1
M_Coupling Concentric Reducing - Threaded - MI - Class 150	Standard	61
M_Elbow - Threaded - MI - Class 150	Standard	60
M_Tee Reducing - Threaded	Standard	66
Tee Sanitary - PVC - Sch 40 - DWV	Standard	1
Metaulic-FP-Elbow No 001-003	Standard	2
Metaulic-FP-FireLock EZ Rigid Coupling Style 009N_Union	Standard	79
Metaulic-FP-FireLock Rigid Coupling Style 005	Standard	39
Metaulic-FP-Reducer No 50-51	Standard	1

Cable Tray Schedule		
Size	Type	Length
12"x4"	Wire Mesh Cable Tray	41' - 6 1/8"
12"x4"	Wire Mesh Cable Tray	118' - 2 1/8"
12"x4"	Ladder Cable Tray	2' - 9 3/4"
12"x4"	Ladder Cable Tray	8' - 11 7/8"
12"x4"	Ladder Cable Tray	10' - 6"
12"x4"	Ladder Cable Tray	10' - 0"
12"x4"	Ladder Cable Tray	7' - 11 7/8"
12"x4"	Ladder Cable Tray	3' - 5 3/4"
12"x4"	Wire Mesh Cable Tray	43' - 6"



Modelled various Sprinklers(inverted&Upright Sprinklers) and Schedules

Clash Detection



Navisworks

Clash Detective

ARCH-STR

Last Run: Saturday, 28 December 2024 4:13:21 PM
Clashes - Total: 1 (Open: 1 Closed: 0)

Name	Status	Clashes	New	Active	Reviewed	Approved	Resolved
PL-STR	Done	1	0	1	0	0	0
ARCH-ELE	Done	1	0	1	0	0	0
ARCH-PL	Done	1	0	1	0	0	0
ARCH-FP	Done	1	0	1	0	0	0
STR-FP	Done	1	0	1	0	0	0

Saved Viewpoints

- General View
 - Home
 - LUG
 - L01
 - L02
- CLASHES
 - LUG
 - STR vs EL UG
 - STR vs P UG
 - L01
 - FP vs P L01
 - M vs FP
 - STR vs M
 - STR vs FP
 - STR vs P L01
 - EL L01 vs EL UG
 - EL L01 vs Arch
 - EL L01 vs STR
 - L02
 - FP L02 vs ARCH
 - M L02 vs ARCH
 - EI L02 vs ARCH
 - FP L02 vs M L02
 - M L02 vs M L02
 - M L02 vs P L02
 - EL L02 vs ME L02
 - P L02 vs FP L02
 - Framing vs STR wall
 - Framing vs ARCH
 - Framing vs E L02
 - Framing vs M L02
 - Framing vs P L02
- CLASHES ASSIGN
 - ELE
 - PL
 - FP
 - ME
 - STR
 - ARCH
 - Framing
 - BIM Track Viewpoint



Multiple Test

Clash Detective

STR vs P UG

Last Run: 31 March 2024
Clashes - Total: 1 (Open: 1 Closed: 0)

Name	Status	Clashes	New	Active	Reviewed	Approved	Resolved
M L02 vs M L02	Done	1	0	1	0	0	0
M L02 vs P L01	Done	0	0	0	0	0	0
M L02 vs P L02	Done	1	0	1	0	0	0
M L02 vs P UG	Done	0	0	0	0	0	0
M L02 vs STR	Done	0	0	0	0	0	0
M vs EL UG	Done	0	0	0	0	0	0
M vs FP	Done	1	0	1	0	0	0
M vs P L01	Done	0	0	0	0	0	0
M vs P UG	Done	0	0	0	0	0	0
P L01 vs P L01	Done	2	0	2	0	0	0
P L01 vs P UG	Done	0	0	0	0	0	0

Navisworks View

Clash Assign

Clash Detection



HPSY Block 52 54

BIM Track

Issue Report

Summary

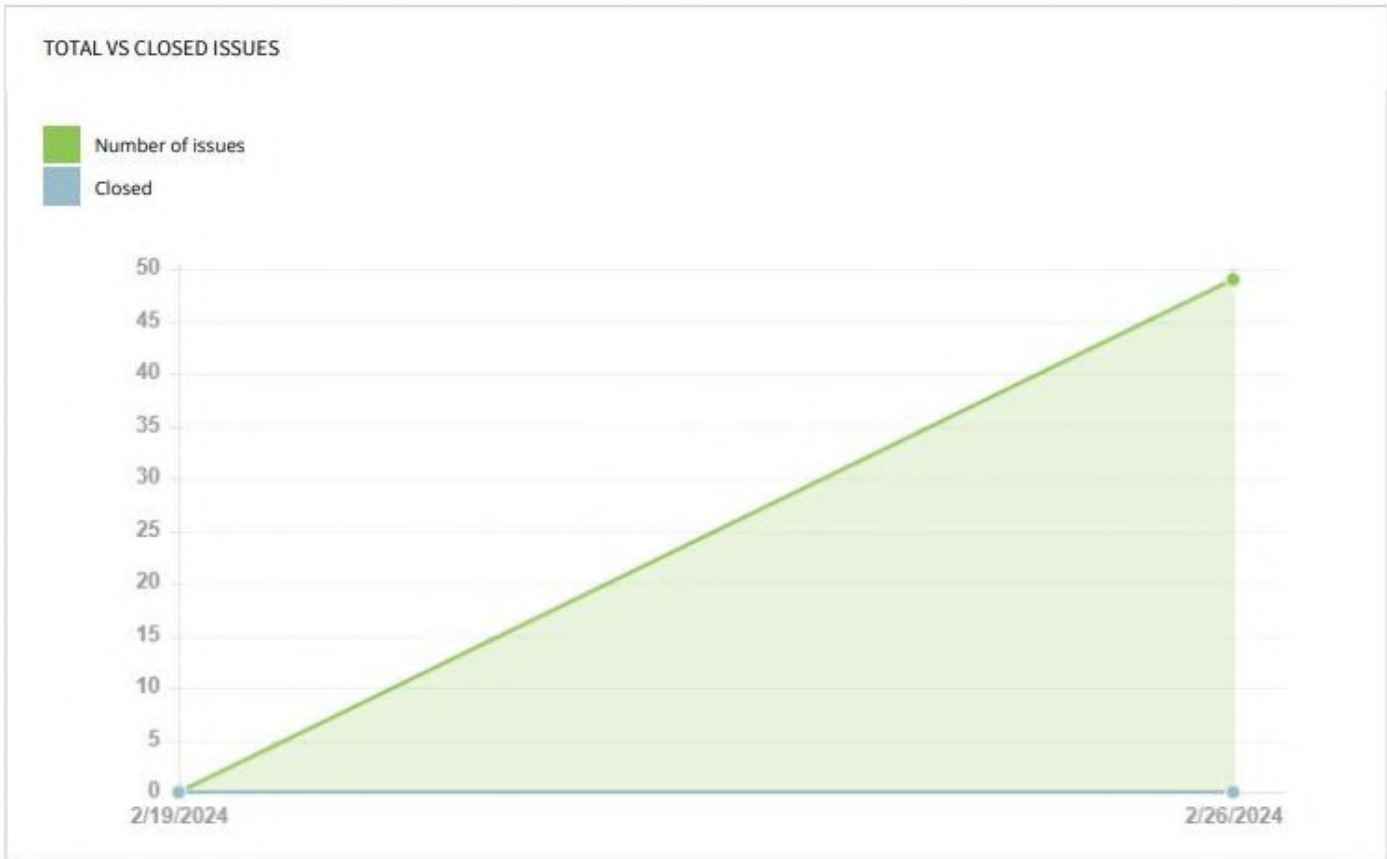
Total project issues : 49

Total printed issues : 49

Title	All	Description	All
Assigned to	All	Zone	All
Type	All	Phase	All
Priority	All	Discipline	All
Status	All	Group	All
Team involved	All	Author	All
Number	All	Visibility	All

0 days
AVERAGE TIME TO CLOSE AN ISSUE





2.7 days
AVERAGE OPENED ISSUE AGE

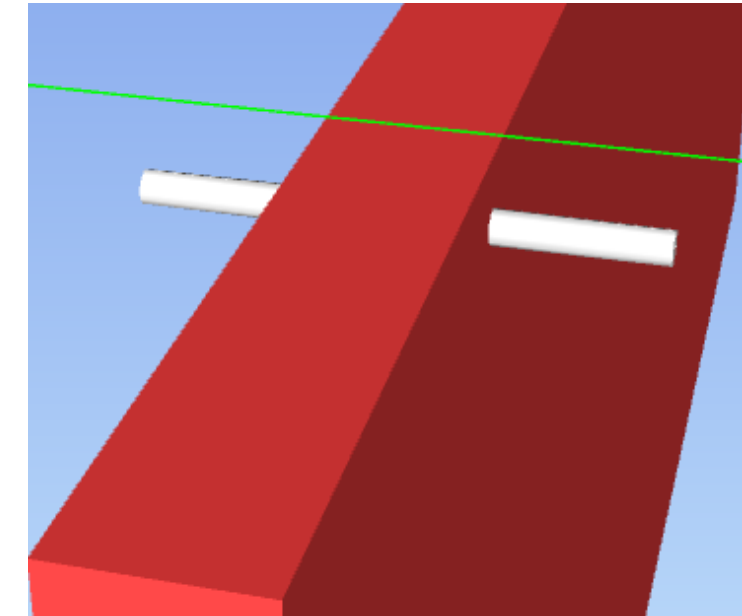
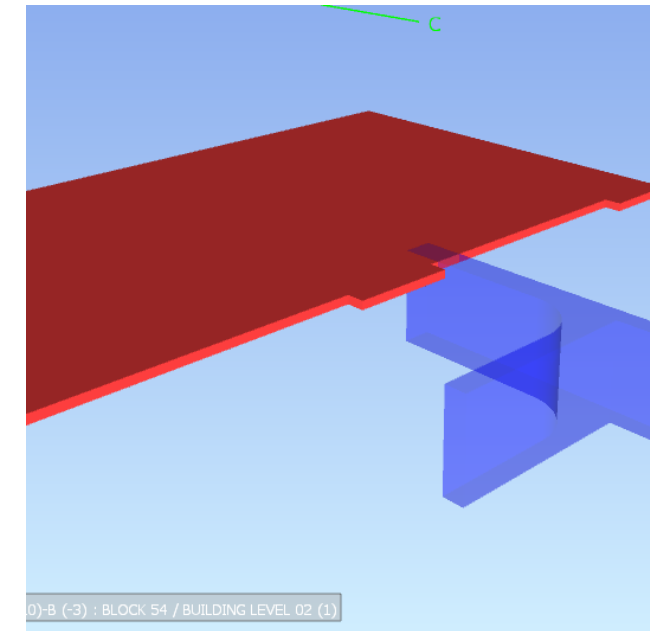


Clash Detection

AUTODESK NAVISWORKS Clash Report




STR-FPC	Tolerance	Clashes	New	Active	Reviewed	Approved	Resolved	Type	Status
	0.025m	1	0	1	0	0	0	Hard	OK

Image	Clash Group	Clash Name	Status	Distance	Grid Location	Description	Date Found	Clash Point	Item 1			Item 2			
									Item ID	Layer	Item Name	Item Type	Item ID	Layer	Item Name
	New Group	Clash1	Active	-0.185	5-B.8 : BLOCK 54 / BUILDING LEVEL 01	Hard	2024/12/1 16:31	x:118.038, y:115.600, z:21.908	Element ID: 380TfRz97P80Izui2pV5	Undefined	CMU WALL BY OTHERS	IfcWall: 7 5/8"X152 11/16"	Element ID: 1648375	Carbon Steel	Line
	New Group	Clash2	Active	-0.185	5-B.8 : BLOCK 54 / BUILDING LEVEL 01	Hard	2024/12/1 16:31	x:118.038, y:115.600, z:21.908	Element ID: 380TfRz97P80Izui2pV5	Undefined	CMU WALL BY OTHERS	IfcWall: 7 5/8"X152 11/16"	Element ID: 1648375	Carbon Steel	Line
	New Group	Clash3	Active	-0.108	2-B.2 : BLOCK 54 / BUILDING LEVEL 01	Hard	2024/12/1 16:31	x:112.534, y:77.549, z:22.048	Element ID: 0371rEL7r80ukfMqg5U\$y5	Undefined	WALL	IfcWall: 12"X190"	Element ID: 1390783	Carbon Steel	Line
	New Group	Clash3	Active	-0.108	8.2-4.2 : BLOCK 54 / BUILDING LEVEL 01	Hard	2024/12/1 16:31	x:112.230, y:101.184, z:22.034	Element ID: 0uU1us6yHAQx189Tfe8bwS	Undefined	WALL	IfcWall: 12"X152 11/16"	Element ID: 1654421	Pipe Types	Line







AUTODESK NAVISWORKS Clash Report

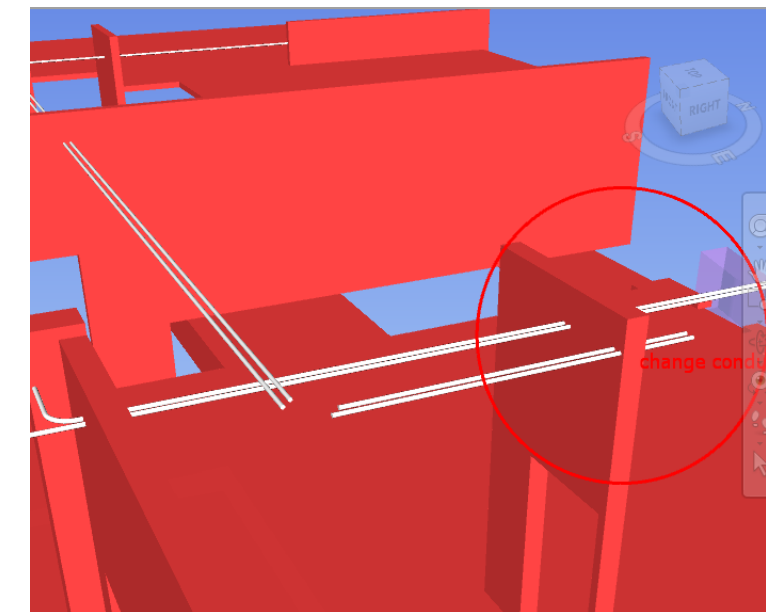
STR-ELEC	Tolerance	Clashes	New	Active	Reviewed	Approved	Resolved	Type	Status
	0.025m	12	0	12	0	0	0	Hard	Old

Image	Clash Group	Clash Name	Status	Distance	Grid Location	Description	Date Found	Clash Point	Item 1			Item 2				
									Item ID	Layer	Item Name	Item Type	Item ID	Layer	Item Name	Item Type
		Clash1	Active	0.546		Hard	2024/11/29 08:35	x:125.480, y:68.057, z:17.469	Element ID: 2650uIzYf7vVvYvBuH27a	Undefined	FOOTING	IfcFootings	Element ID: 1371846	TRENCH	Solid	
		Clash2	Active	0.480	7 E : BLOCK 54 / BUILDING LEVEL 01	5BR	Hard	2024/11/29 08:35	x:128.714, y:133.726, z:18.059	Element ID: 39YgxNWx7M9GKHbscPufD	Undefined	FOOTING	IfcFootings	Element ID: 1399220	Clearance(1)	Solid
		Clash3	Active	0.475	7 E : BLOCK 54 / BUILDING LEVEL 01	5BR	Hard	2024/11/29 08:35	x:128.714, y:133.726, z:18.051	Element ID: 0Mrvu6P77BvFhYIXYkubH	Undefined	FOOTING	IfcFootings	Element ID: 1399220	Clearance(1)	Solid

AUTODESK NAVISWORKS Clash Report

PL-STR	Tolerance	Clashes	New	Active	Reviewed	Approved	Resolved	Type	Status
	0.025m	1	0	1	0	0	0	Hard	OK

Image	Clash Group	Clash Name	Status	Distance	Grid Location	Description	Date Found	Clash Point	Item 1			Item 2			
									Item ID	Layer	Item Name	Item Type	Item ID	Layer	Item Name
	New Group2	Clash1	Active	-0.615	2-B.2 : BLOCK 54 / BUILDING LEVEL 01	Hard	2024/11/29 08:48	x:112.230, y:77.602, z:21.890	Element ID: 1143538	Default(1)	Solid	Element ID: 0371rEL7r80ukfMqg5U\$y5	Undefined	WALL	IfcWall: 12"X190"
	New Group2	Clash1	Active	0.615	2-B.2 : BLOCK 54 / BUILDING LEVEL 01	Hard	2024/11/29 08:48	x:112.230, y:77.602, z:21.890	Element ID: 1143538	Default(1)	Solid	Element ID: 0371rEL7r80ukfMqg5U\$y5	Undefined	WALL	IfcWall: 12"X190"
	New Group2	Clash2	Active	0.594	2-B.2 : BLOCK 54 / BUILDING LEVEL 01	Hard	2024/11/29 08:48	x:112.230, y:77.586, z:21.911	Element ID: 1143536	Type L Hard	Copper: 4" - 7 3/4"	Element ID: 0371rEL7r80ukfMqg5U\$y5	Undefined	WALL	IfcWall: 12"X190"
	New Group2	Clash3	Active	0.585	2-B.2 : BLOCK 54 / BUILDING LEVEL 01	Hard	2024/11/29 08:48	x:112.230, y:77.500, z:21.926	Element ID: 1143563	Default(1)	Solid	Element ID: 0371rEL7r80ukfMqg5U\$y5	Undefined	WALL	IfcWall: 12"X190"

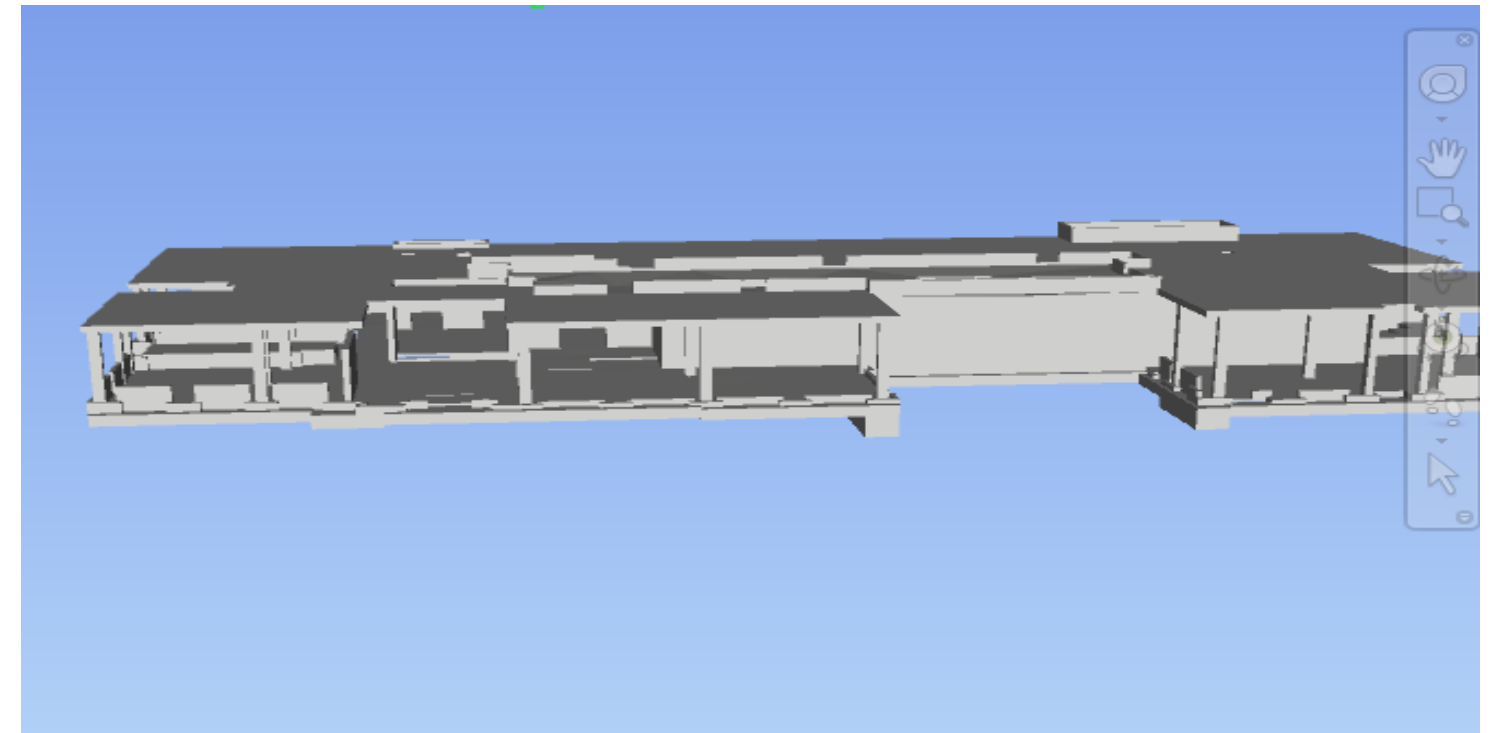
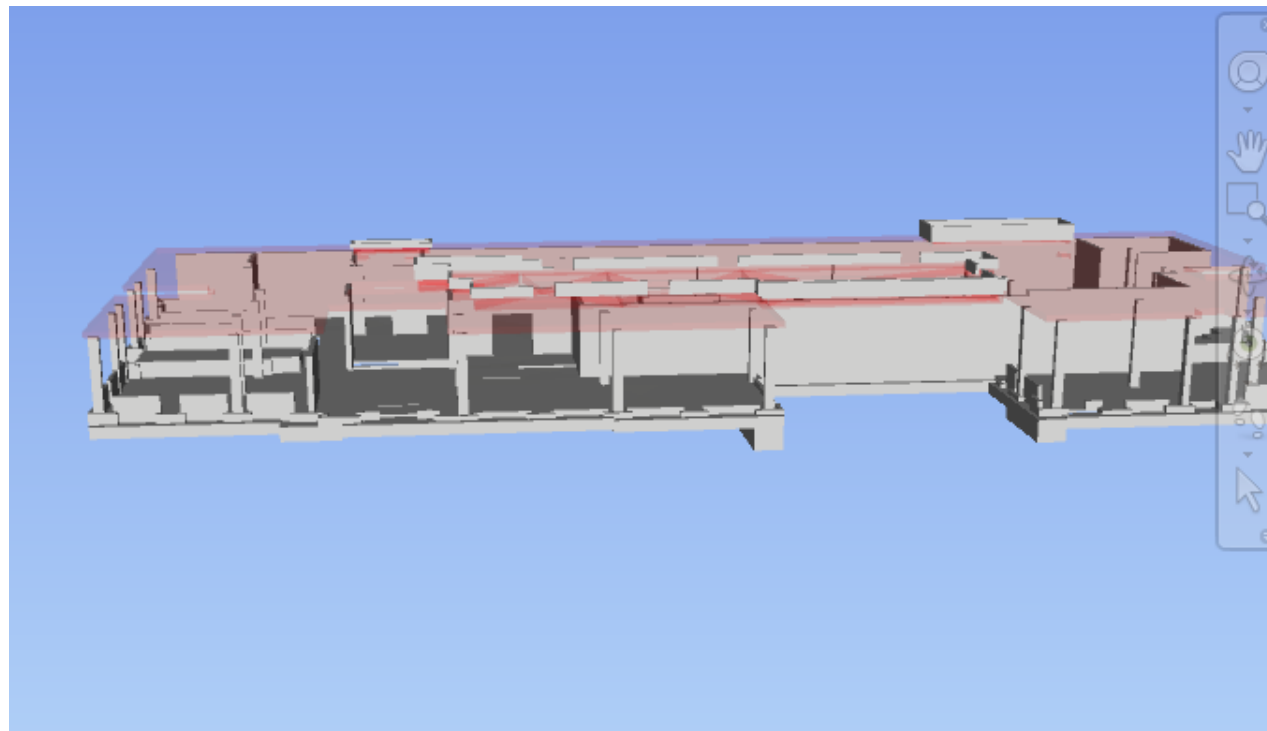
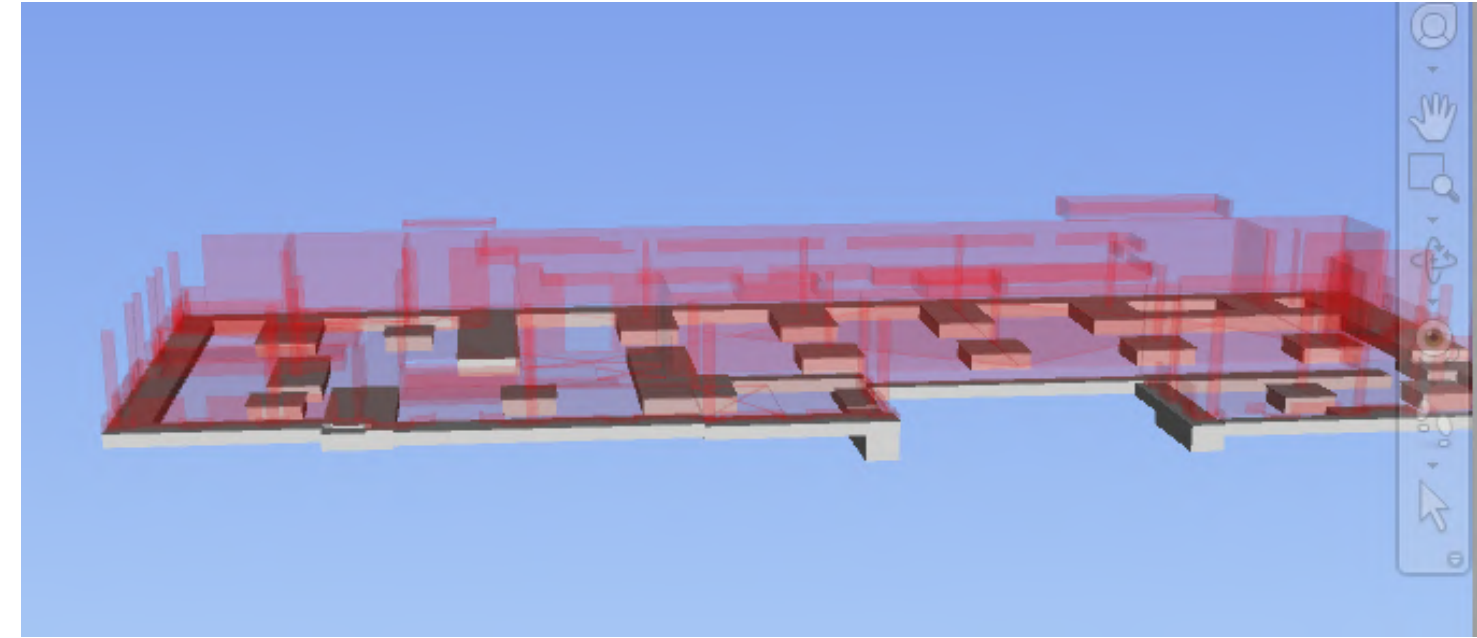
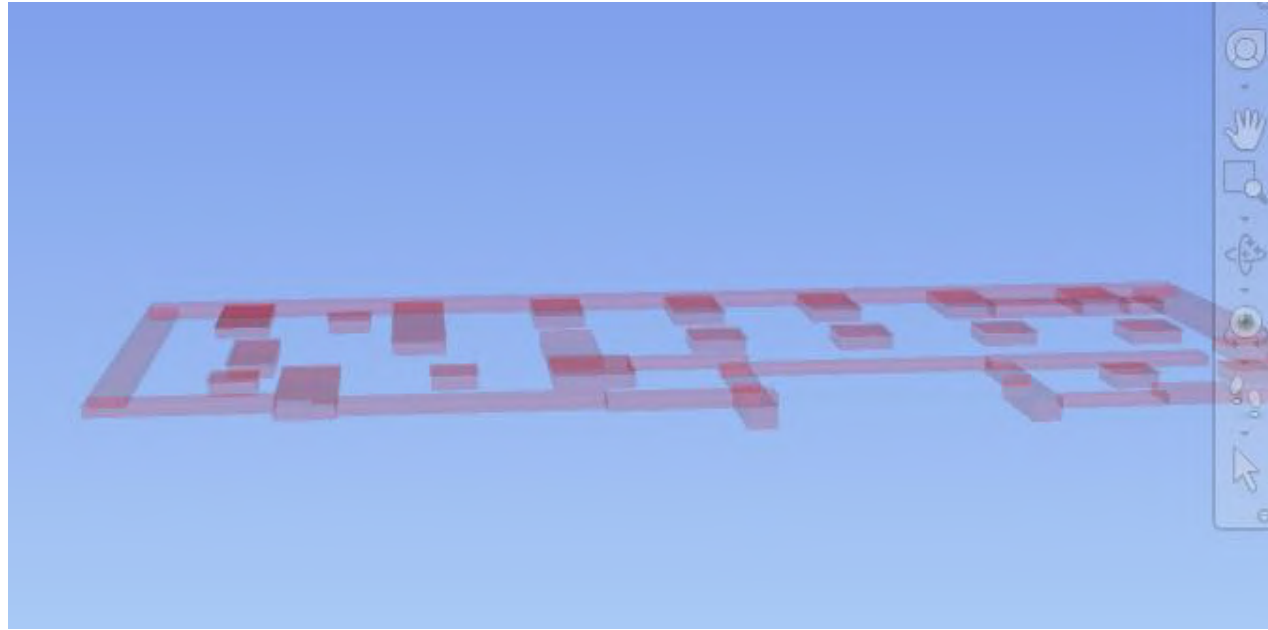


4D Simulation

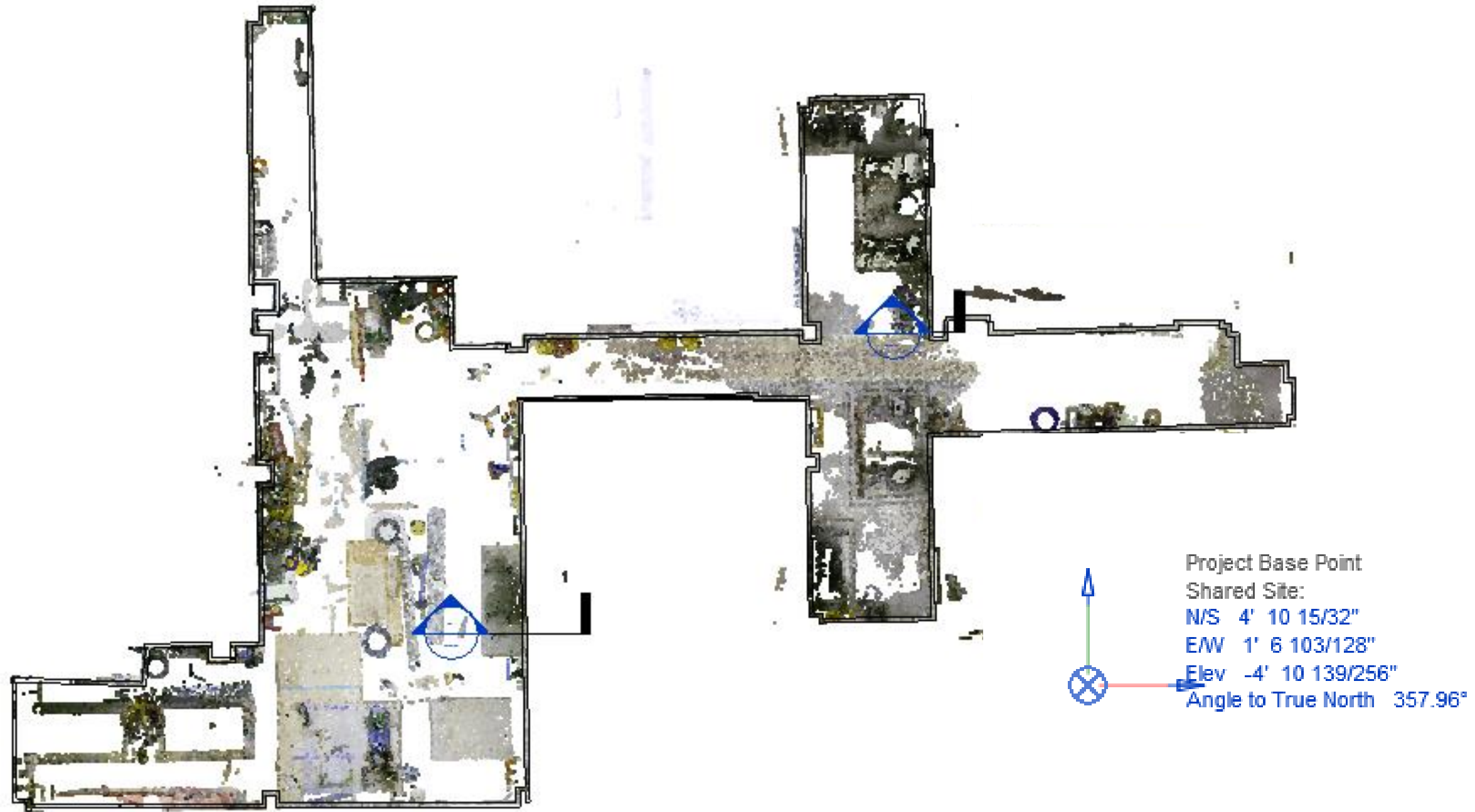


Active	Name	Status	Planned Start	Planned End	Actual Start	Actual End	Task Type	Attached	Total	Qtr 2, 2024		Qtr 3, 2024			Qtr 4, 2024	
										May	June	July	August	September	October	
<input checked="" type="checkbox"/>	Footing	📅	01-03-2024	15-03-2024	N/A	N/A	Construct	📁 Sets->L01->Footing								
<input checked="" type="checkbox"/>	Columns	📅	16-03-2024	25-03-2024	N/A	N/A	Construct	📁 Sets->L01->Column								
<input checked="" type="checkbox"/>	Beam	📅	26-03-2024	30-03-2024	N/A	N/A	Construct	📁 Sets->L01->Beam								
<input checked="" type="checkbox"/>	Planter Beam	📅	30-03-2024	31-03-2024	N/A	N/A	Construct	📁 Sets->L01->Planter Beam								
<input checked="" type="checkbox"/>	Slab Lvl 1	📅	01-04-2024	10-04-2024	N/A	N/A	Construct	📁 Sets->L01->Lvl 1 Slab								
<input checked="" type="checkbox"/>	Electrical Lvl 1	📅	11-04-2024	18-04-2024	N/A	N/A	Construct	📁 Sets->L01->Electrical Lvl 1								
<input checked="" type="checkbox"/>	Plumbing Lvl 1	📅	19-04-2024	23-04-2024	N/A	N/A	Construct	📁 Sets->L01->Plumbing Lvl1								
<input checked="" type="checkbox"/>	Mechanical Lvl 1	📅	24-04-2024	30-04-2024	N/A	N/A	Construct	📁 Sets->L01->Mechanical Lvl1								
<input checked="" type="checkbox"/>	Fire Protection Lvl 1	📅	01-05-2024	05-05-2024	N/A	N/A	Construct	📁 Sets->L01->Fire Protection Lvl1								
<input checked="" type="checkbox"/>	Walls	📅	01-05-2024	14-05-2024	N/A	N/A	Construct	📁 Sets->L01->Walls								
<input checked="" type="checkbox"/>	Topography All	📅	09-04-2024	12-04-2024	N/A	N/A	Construct	📁 Sets->Topography								
<input checked="" type="checkbox"/>	Slab Lvl 2	📅	06-05-2024	14-05-2024	N/A	N/A	Construct	📁 Sets->L02->Lvl 2 Slab								
<input checked="" type="checkbox"/>	Framing Lvl 2	📅	15-05-2024	20-05-2024	N/A	N/A	Construct	📁 Sets->L02->Frame Lvl 2								
<input checked="" type="checkbox"/>	Electrical Lvl 2	📅	21-05-2024	28-05-2024	N/A	N/A	Construct	📁 Sets->L02->Electrical Lvl 2								
<input checked="" type="checkbox"/>	Plumbing Lvl 2	📅	29-05-2024	02-06-2024	N/A	N/A	Construct	📁 Sets->L02->Plumbing Lvl2								
<input checked="" type="checkbox"/>	Mechanical Lvl 2	📅	03-06-2024	06-06-2024	N/A	N/A	Construct	📁 Sets->L02->Mechanical Lvl 2								
<input checked="" type="checkbox"/>	Fire Protection Lvl 2	📅	07-06-2024	10-06-2024	N/A	N/A	Construct	📁 Sets->L02->Fire Protection Lvl 2								
<input checked="" type="checkbox"/>	Slab Lvl 3	📅	11-06-2024	20-06-2024	N/A	N/A	Construct	📁 Sets->L03->Lvl 3 Slab								
<input checked="" type="checkbox"/>	Framing Lvl 3	📅	21-06-2024	26-06-2024	N/A	N/A	Construct	📁 Sets->L03->Frame Lvl 3								
<input checked="" type="checkbox"/>	Electrical Lvl 3	📅	27-06-2024	03-07-2024	N/A	N/A	Construct	📁 Sets->L03->Electrical Lvl 3								
<input checked="" type="checkbox"/>	Plumbing Lvl 3	📅	04-07-2024	09-07-2024	N/A	N/A	Construct	📁 Sets->L03->Plumbing Lvl 3								
<input checked="" type="checkbox"/>	Mechanical Lvl 3	📅	10-07-2024	15-07-2024	N/A	N/A	Construct	📁 Sets->L03->Mechanical Lvl 3								
<input checked="" type="checkbox"/>	Fire Protection Lvl 3	📅	16-07-2024	21-07-2024	N/A	N/A	Construct	📁 Sets->L03->Fire Protection Lvl 3								
<input checked="" type="checkbox"/>	Slab Lvl 4	📅	22-07-2024	01-08-2024	N/A	N/A	Construct	📁 Sets->L04->Lvl 4 Slab								
<input checked="" type="checkbox"/>	Framing Lvl 4	📅	02-08-2024	08-08-2024	N/A	N/A	Construct	📁 Sets->L04->Frame Lvl 4								
<input checked="" type="checkbox"/>	Electrical Lvl 4	📅	09-08-2024	12-08-2024	N/A	N/A	Construct	📁 Sets->L04->Electrical Lvl 4								
<input checked="" type="checkbox"/>	Plumbing Lvl 4	📅	13-08-2024	16-08-2024	N/A	N/A	Construct	📁 Sets->L04->Plumbing Lvl 4								
<input checked="" type="checkbox"/>	Mechanical Lvl 4	📅	17-08-2024	22-08-2024	N/A	N/A	Construct	📁 Sets->L04->Mechanical Lvl 4								
<input checked="" type="checkbox"/>	Fire Protection Lvl 4	📅	23-08-2024	28-08-2024	N/A	N/A	Construct	📁 Sets->L04->Fire Protection Lvl 4								
<input checked="" type="checkbox"/>	Slab Lvl 5	📅	29-08-2024	08-09-2024	N/A	N/A	Construct	📁 Sets->L05->Lvl 5 Slab								
<input checked="" type="checkbox"/>	Framing Lvl 5	📅	09-09-2024	14-09-2024	N/A	N/A	Construct	📁 Sets->L05->Frame Lvl 5								
<input checked="" type="checkbox"/>	Electrical Lvl 5	📅	15-09-2024	20-09-2024	N/A	N/A	Construct	📁 Sets->L05->Electrical Lvl 5								
<input checked="" type="checkbox"/>	Plumbing Lvl 5	📅	21-09-2024	28-09-2024	N/A	N/A	Construct	📁 Sets->L05->Plumbing Lvl 5								
<input checked="" type="checkbox"/>	Mechanical Lvl 5	📅	29-09-2024	03-10-2024	N/A	N/A	Construct	📁 Sets->L05->Mechanical Lvl 5								
<input checked="" type="checkbox"/>	Fire Protection Lvl 5	📅	04-10-2024	10-10-2024	N/A	N/A	Construct	📁 Sets->L05->Fire Protection Lvl 5								
<input checked="" type="checkbox"/>	Steel Str All	📅	11-10-2024	18-10-2024	N/A	N/A	Construct	📁 Sets->Steel All Lvl								
<input checked="" type="checkbox"/>	Str Roof	📅	19-10-2024	24-10-2024	N/A	N/A	Construct	📁 Sets->Roof->Structure Roof								
<input checked="" type="checkbox"/>	Plumbing Roof	📅	30-10-2024	04-11-2024	N/A	N/A	Construct	📁 Sets->Roof->Plumbing Roof								
<input checked="" type="checkbox"/>	Mechanical Roof	📅	05-11-2024	11-11-2024	N/A	N/A	Construct	📁 Sets->Roof->Mechanical Roof								
<input checked="" type="checkbox"/>	Fire Protection Roof	📅	12-11-2024	16-11-2024	N/A	N/A	Construct	📁 Sets->Roof->Fire Protection Roof								
<input checked="" type="checkbox"/>	Architecture All	📅	17-11-2024	30-11-2024	N/A	N/A	Construct	📁 Sets->Architecture All Lvl								
<input checked="" type="checkbox"/>	Electrical Roof	📅	30-11-2024	05-12-2024	N/A	N/A	Construct	📁 Sets->Roof->Electrical Roof								

Timeliner 4D Simulation

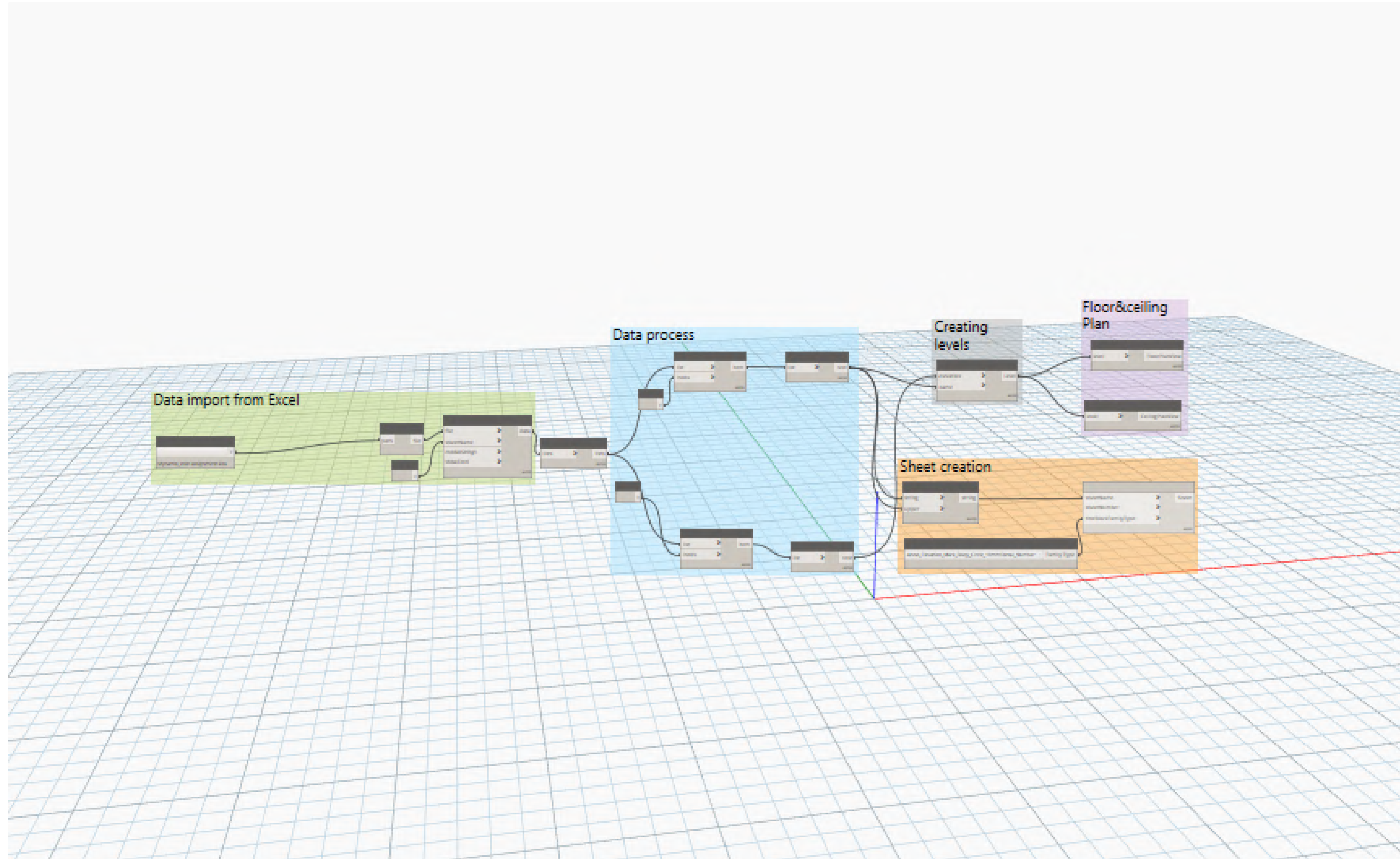


Scan to BIM

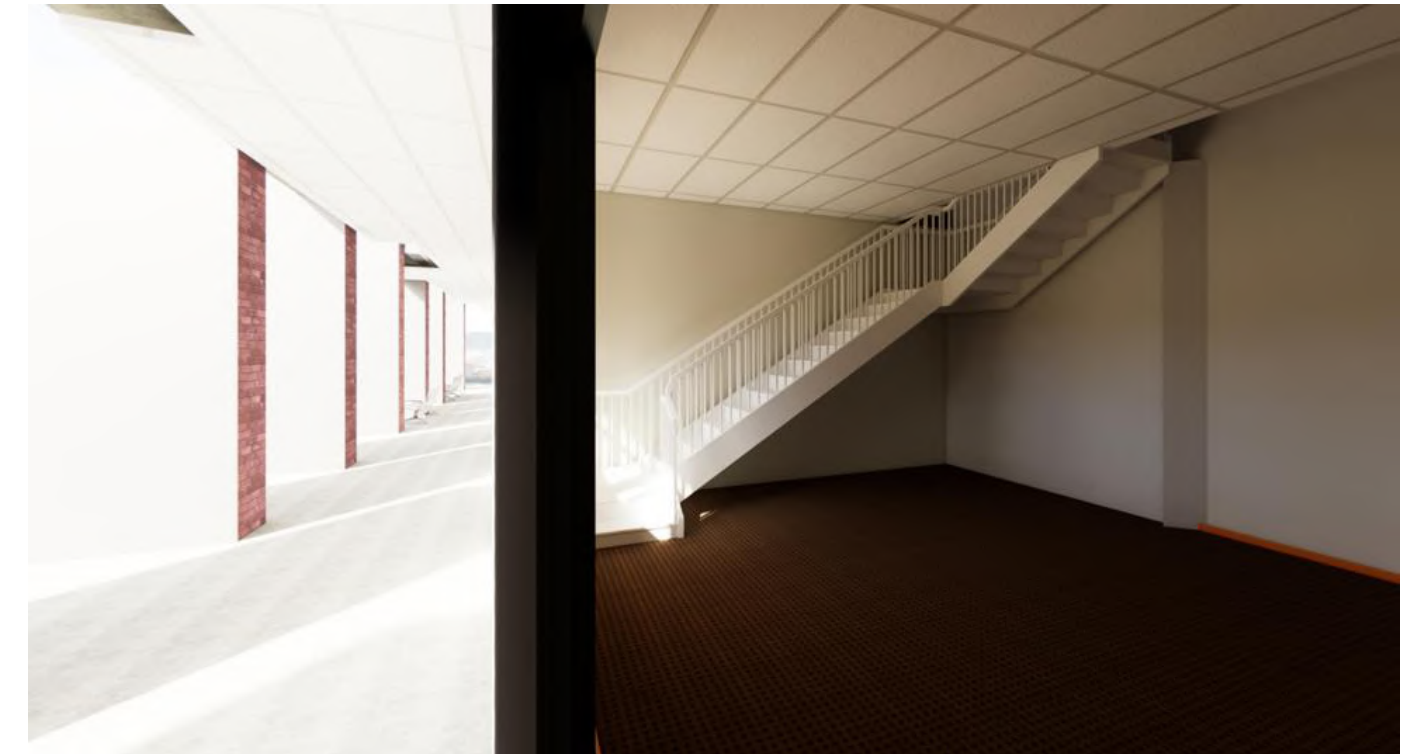


RCS to RVT file

Dynamo Script



Render Images-Enscape QR code





THANK YOU!!

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 Dubai, UAE