

What does BIM mean to Developers

BIM Practices

1. BIM office infrastructure
2. In-house Setup - Local Office > International Office
3. External Collaboration Setup
4. Cloud Base Project Collaboration Setup

B

= Building

建築

I

= Information

資訊

M

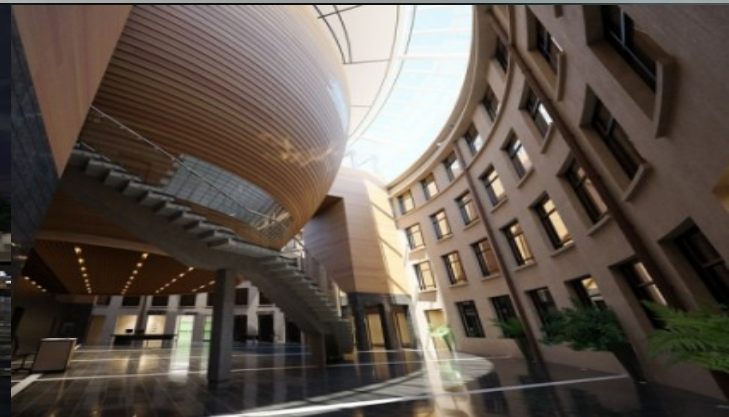
= Modelling

模型/ 模擬

Fake BIM

M + ?

JUST 3D MODEL – NOT BIM

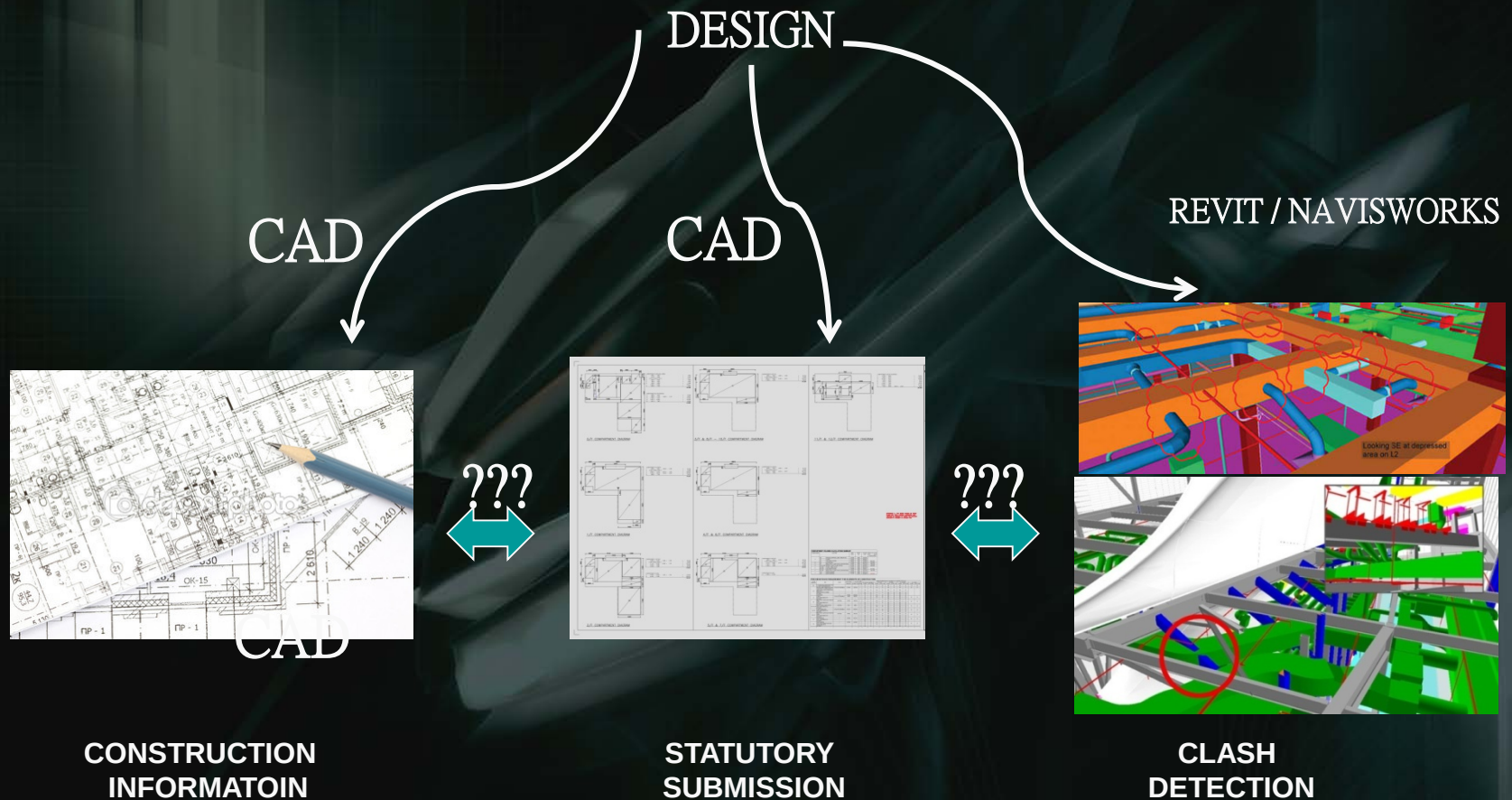


HALF-BIM

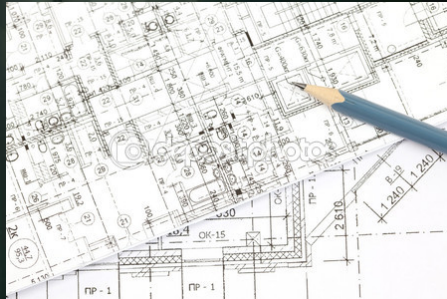
I <> M

3D MODEL >> QTO , CLASH ANALYSIS

HALF BIM

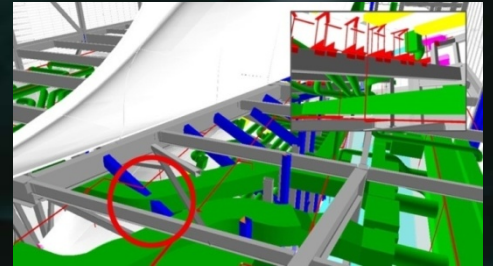
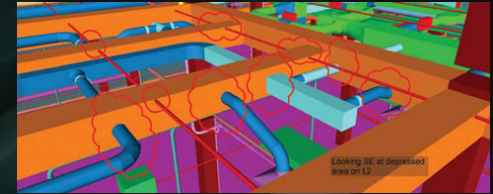


REAL BIM

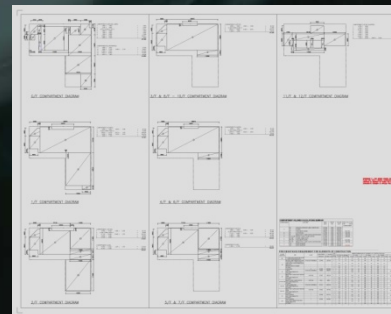


CONSTRUCTION
INFORMATOIN

DESIGN
in
BIM



CLASH
DETECTION



STATUTORY
SUBMISSION

REAL BIM

I = M

I > M

INFORMATION FROM MODEL,
INFORMATION MORE IMPORTANT

B I M

=



=

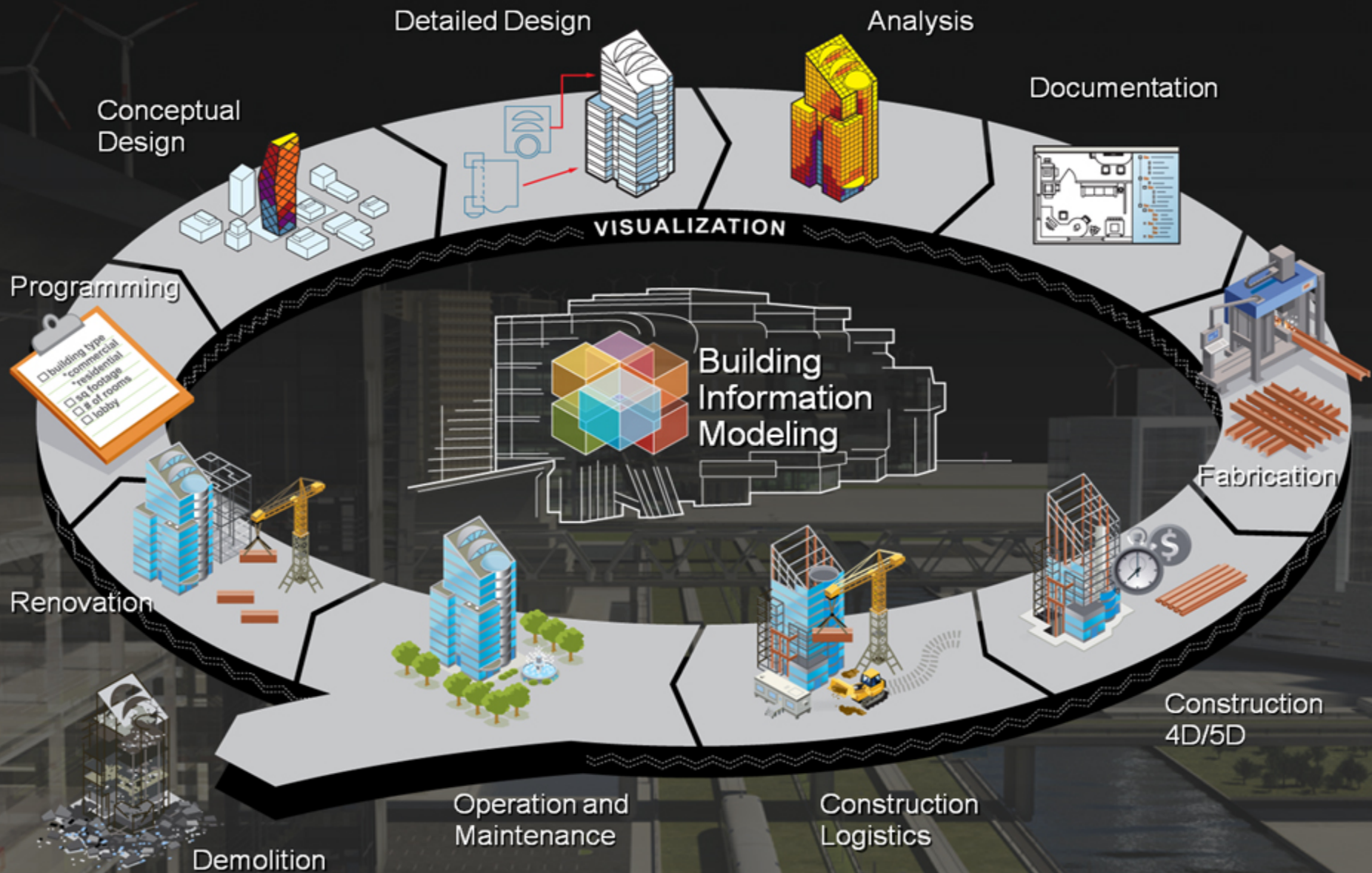
Modelling **Information** **Business**

REAL BIM

$$M + I = B$$

BIM is a process, Business is the objective

Use of Building Information Modeling (BIM)



Building Projects

Modelling

Plan
Section
Elevation
Area Diagrams
Schematic Designs
General Building Plan
Structural Plans
E/M Drawings
Schematics
Details
Other Diagrams...

Information

Area Schedule
Finishing Schedules
Door/Window/Louvre
Schedules
Beam/ Column Schedule
Equipment Schedule...

Program

Cost Estimate
Quantity Take Off
Bills of Quantities
Variation Assessments

As a result.....

Inefficiencies（低生産性）, mistakes(エラー) and delays（工期延長） account for \$200 billion of the \$650 billion spent on construction in America every year.

New wiring, The Economist, January 13th, 2000

In the UK alone, the annual cost of rectifying construction defects(デフエク) caused by poorly detailed drawings and operatives being given incorrect instructions has been put at £1bn (≈\$1.66bn).

IT Construction Best Practice service, <http://www.itcbp.org.uk>

The process of construction is itself repeated in its essentials from project to project. Indeed, research suggests that up to 80% of inputs into buildings are repeated.

M4i, <http://www.m4i.org.uk>

Modelling

CAD SYSTEMs

e.g. AutoCAD,
Microstation

Elevation

Area Diagrams

Schematic Designs

General Building Plan

Structural Plans

E/M Drawings

Schematics

Other Diagrams

Information

- Area Schedule

Word

Excel

(spreadsheet)

Access

(Data Base)

MS Project

BQ Softwares

Quantity Take Off

Bills of Materials

Variations

Building Projects

Modelling

Information

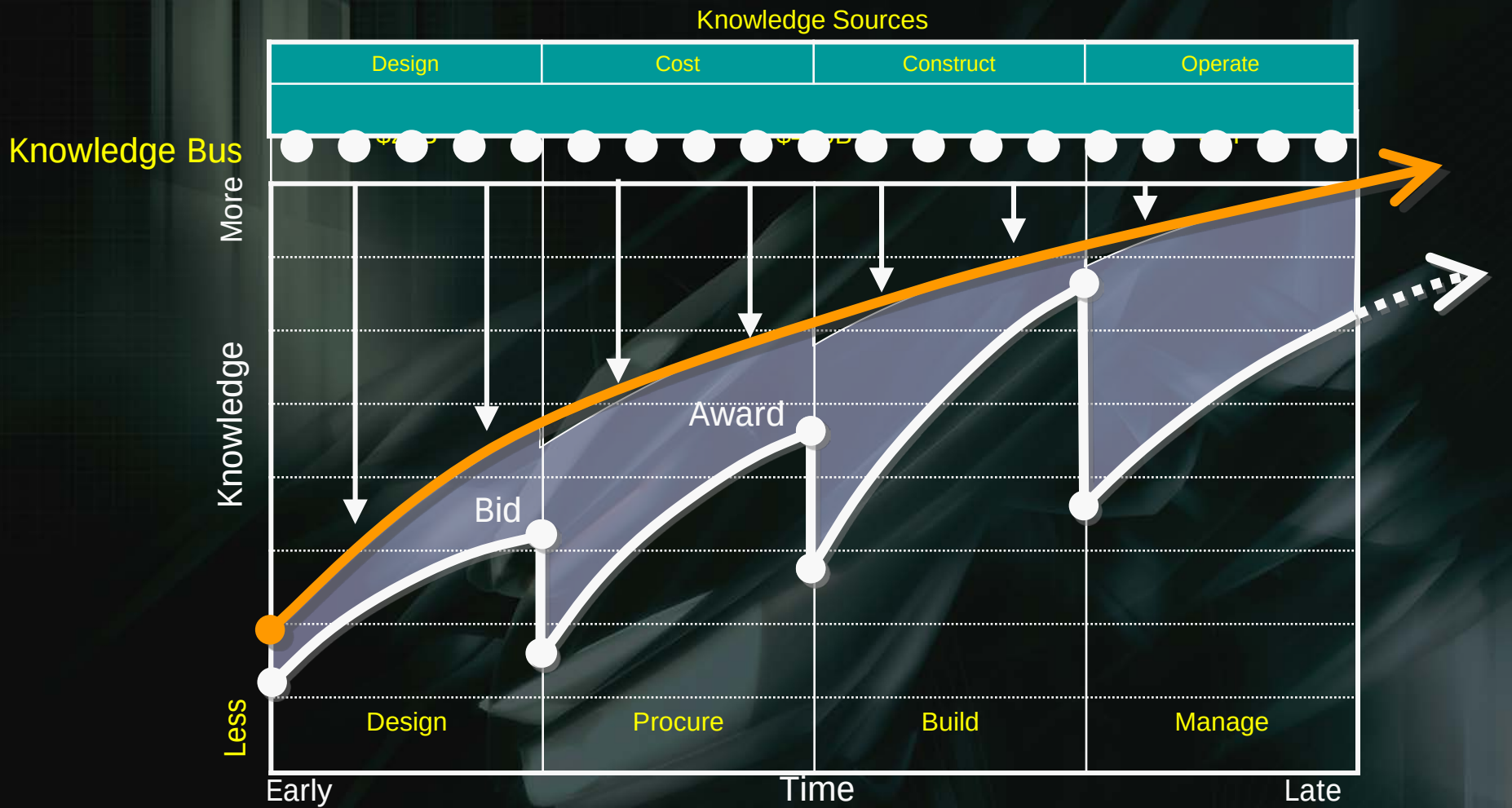
BIM

Building Information Modeling

信息化建筑模型

- Plan
- Section
- Elevation
- Area Diagrams
- Schematic Designs
- General Building Plan
- Structural Plans
- E/M Drawings
- Schematics
- Other Diagrams

- Area Schedule
- Finishing Schedules
- Door/Window/Louvre Sch
- Beam/Column Schedule
- Equipment Schedule
- Cost Estimate
- Quantity Take Off
- Bills of Quantities
- Variations



INFORMATION “BACKFLOW”

What is BIM (Building Information Model)

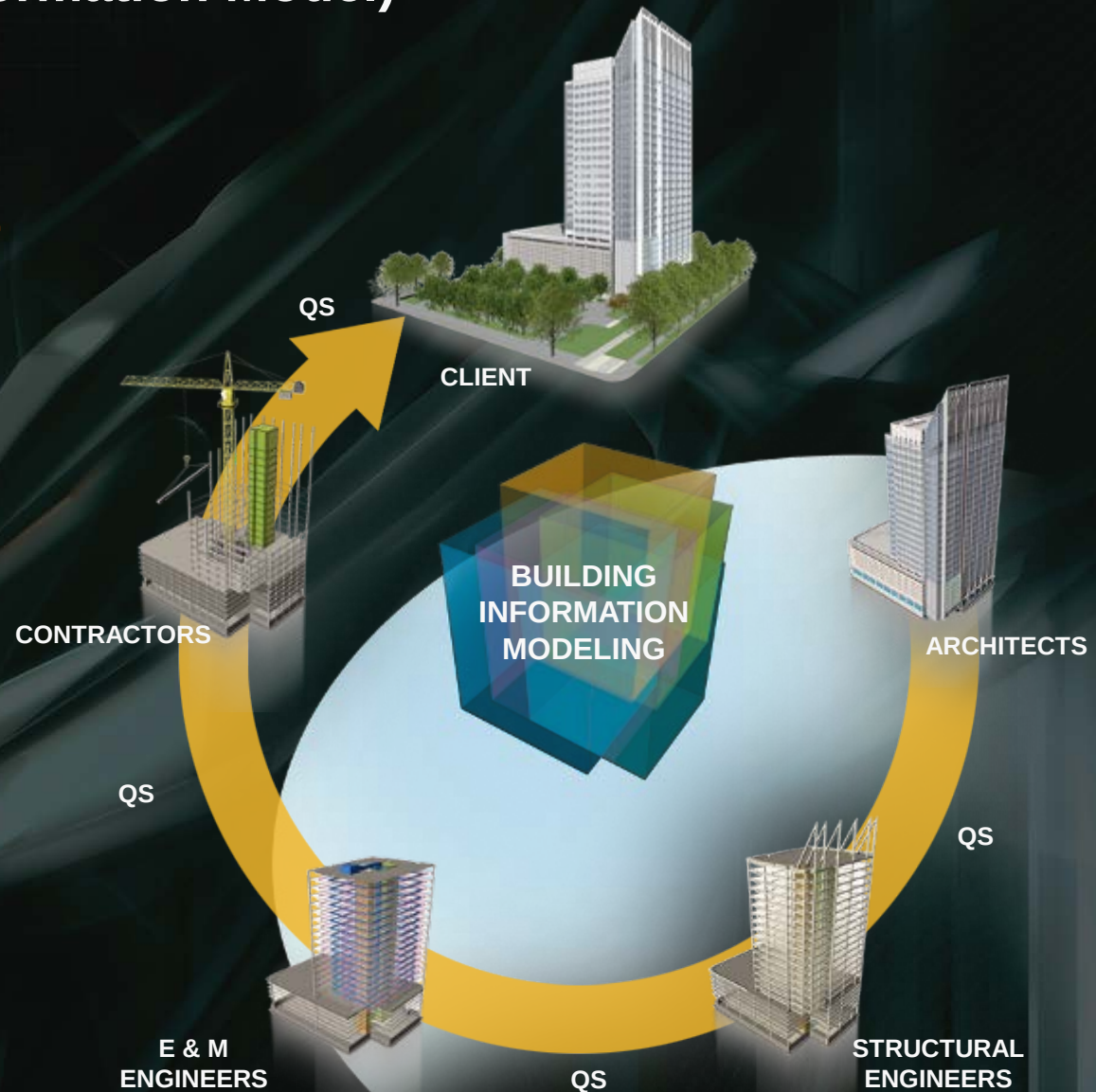
Graphical Data

+

Non-Graphical
Data

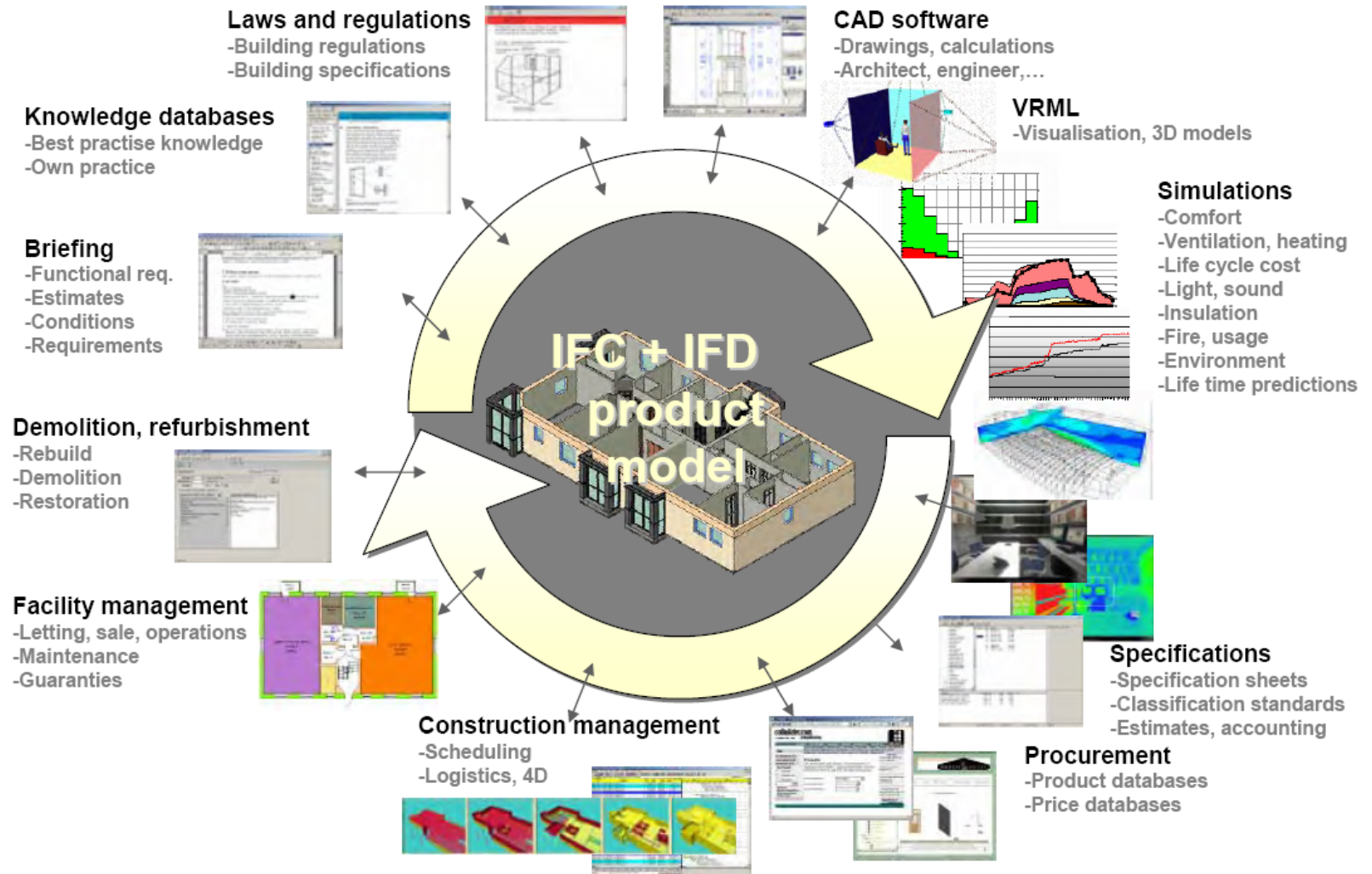
+

New workflow



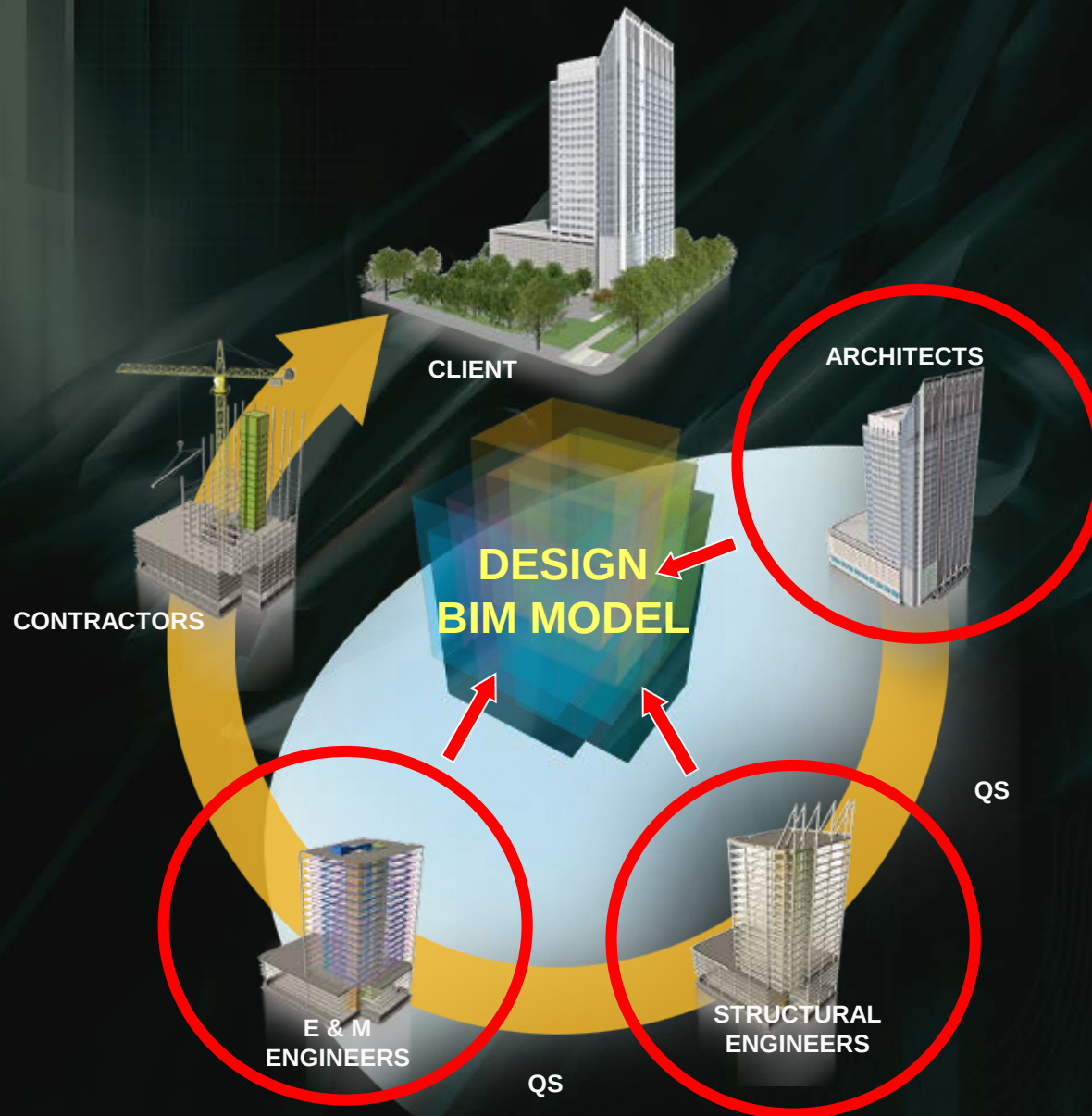


Tier 3 – Derived Lifecycle View

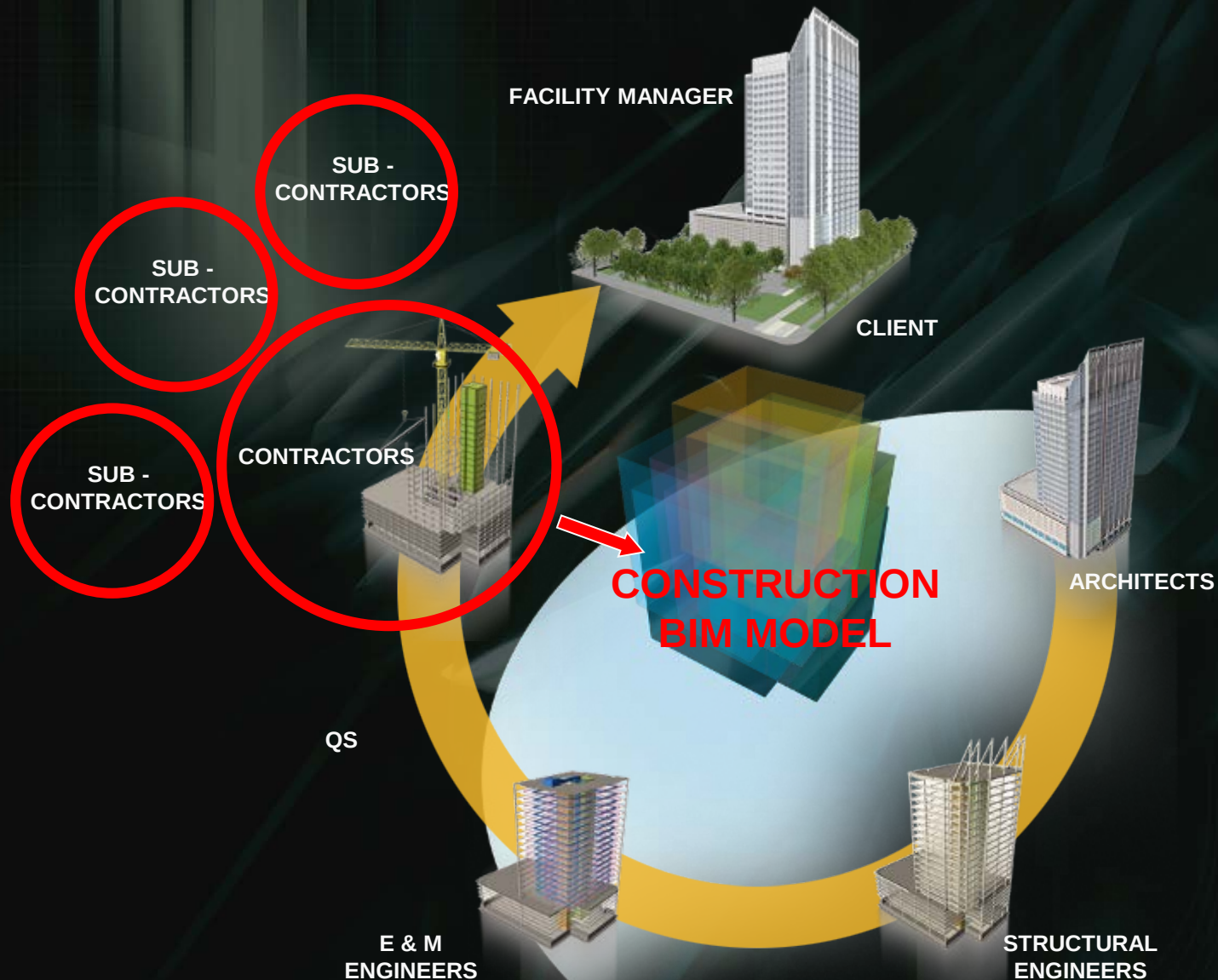




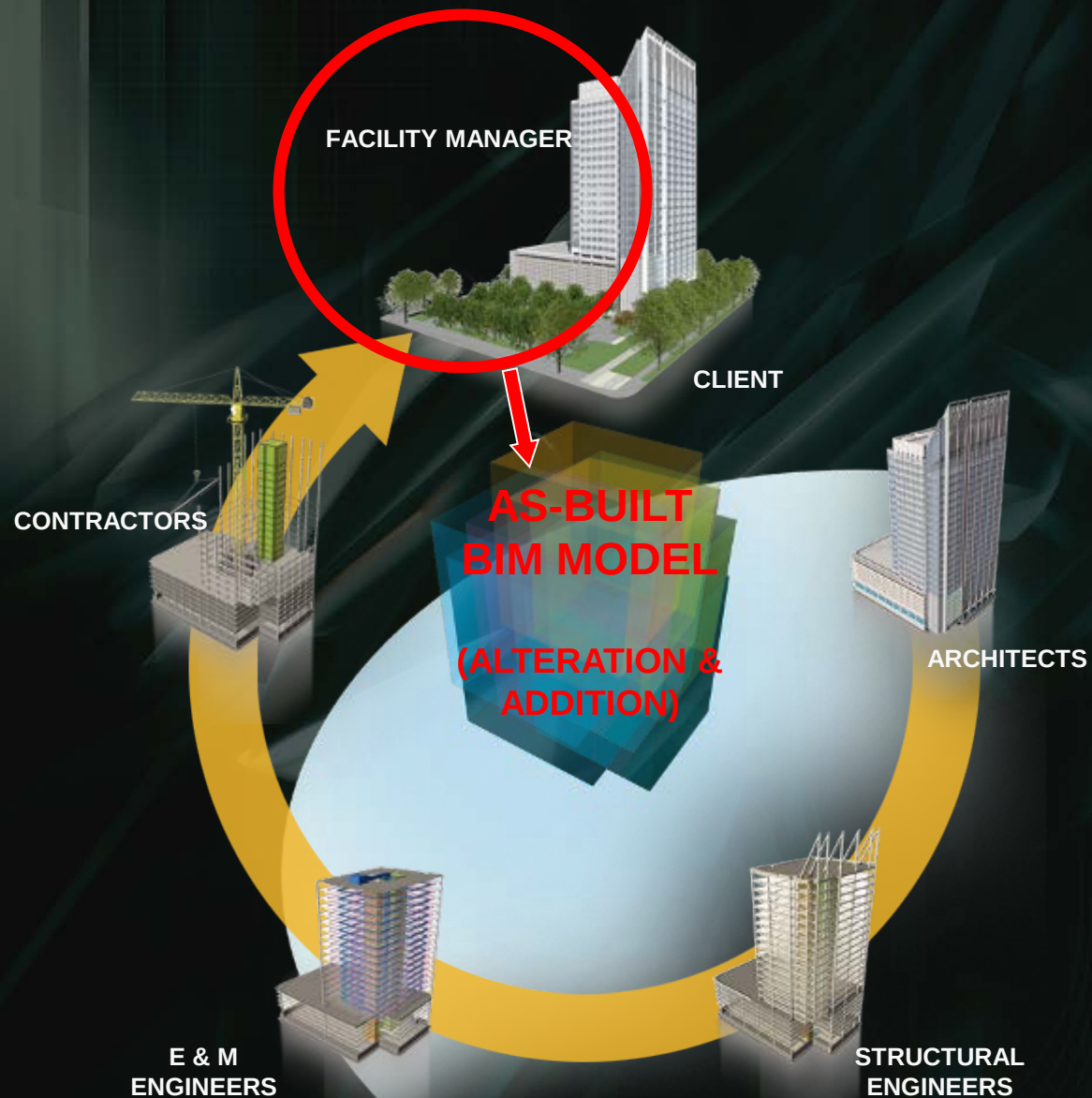
HOW BIM WORKS?



CONSTRUCTION BIM MODEL



AS BUILT BIM MODEL



Use of Building Information Modeling (BIM)

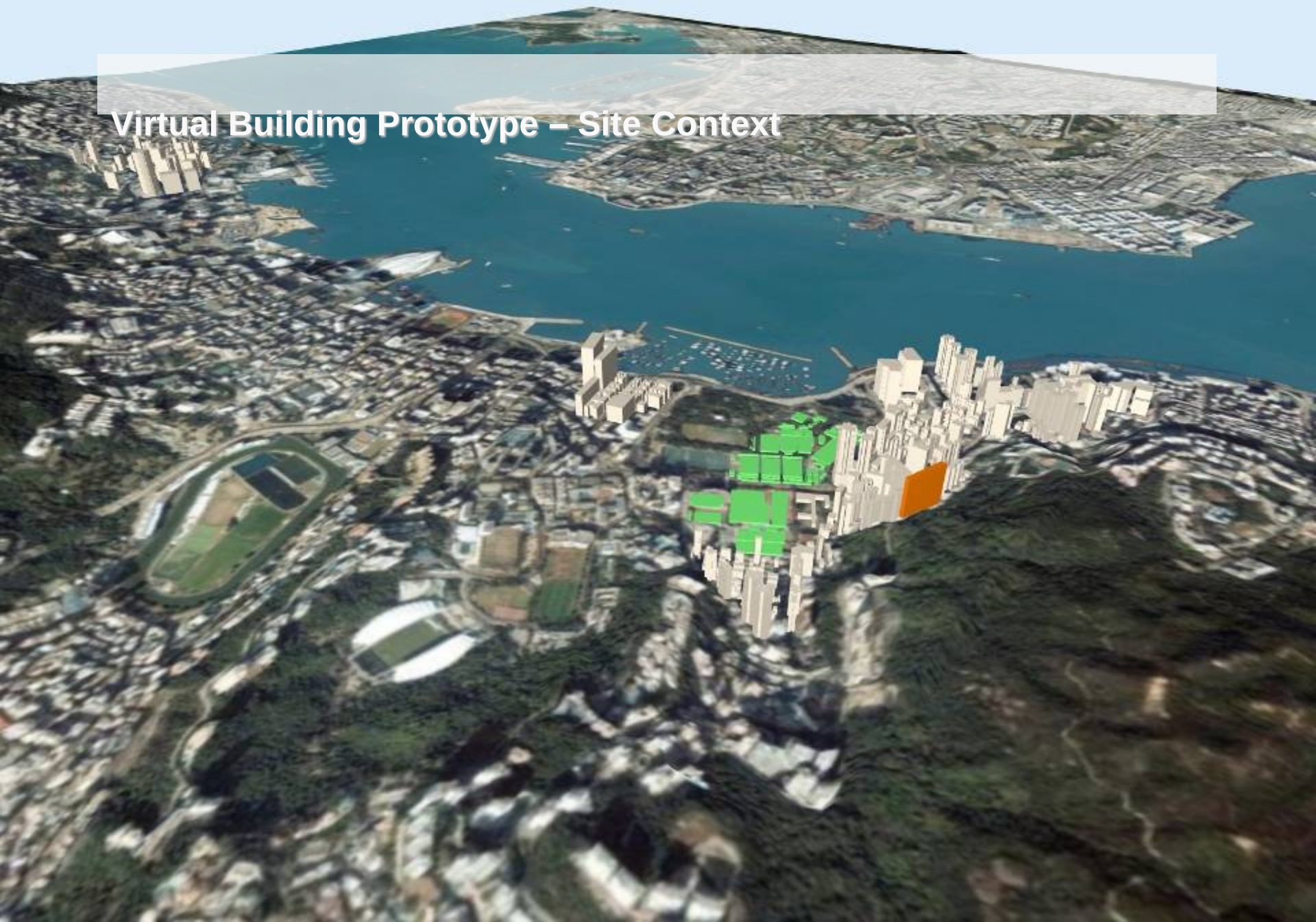
BIMの活用

1. **Design visualization** 設計の可視化
2. **Drawing Productions** 図面製作
3. **Services Co-ordination and Clash detection with other disciplines** 多部門との連携と干渉チェック
4. **Quantity taking and preparation of Tender Document** 数量拾い及び入札書類の作成
5. **Automated Statutory Submission** 確認申請図書作成の自動化
6. **Scientific analysis of different environmental aspects** 様々な環境解析
7. **Supply Chain Integration with the manufacturing and production** サプライヤとの連携
8. **Complex Geometry** 複雑な形状を実現可能

Use of Building Information Modeling (BIM)

1. **Design visualization** 設計の可視化
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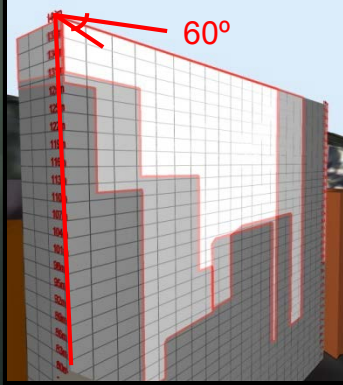
Virtual Building Prototype – Site Context



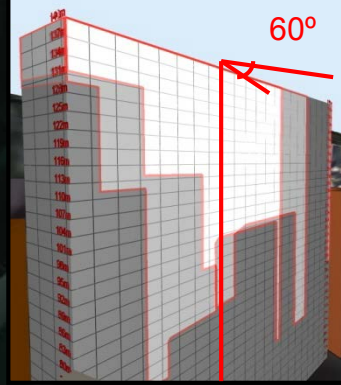
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140m

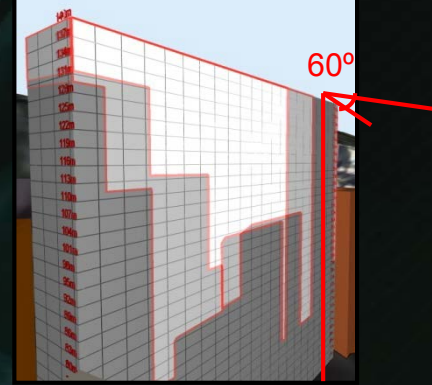
Tin Hau Temple Road No.1



Tin Hau Temple Road No.1



Tin Hau Temple Road No.1



140m

135m

130m

125m

120m

115m

110m

105m

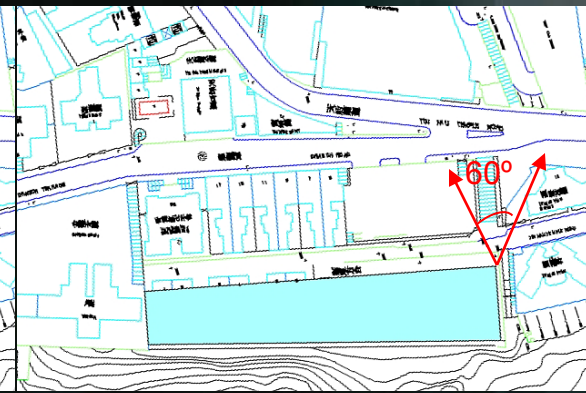
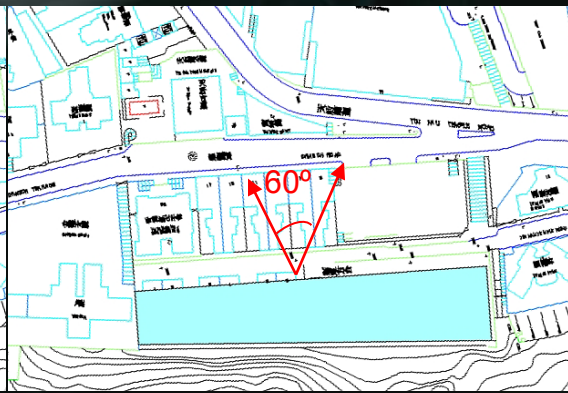
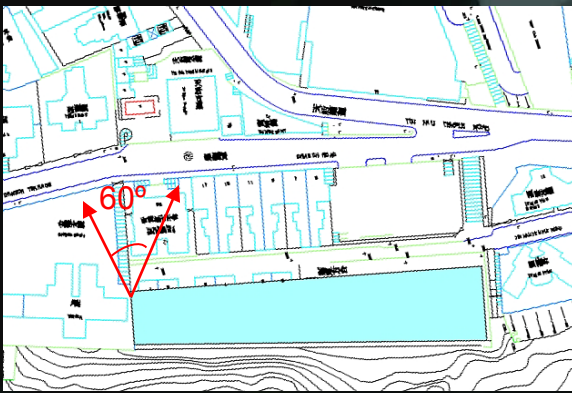
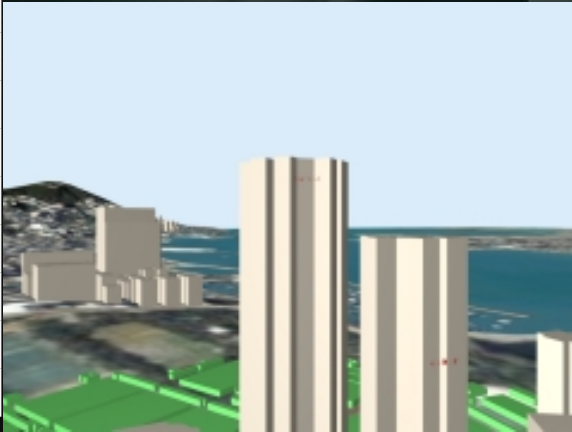
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95m

90m

85m

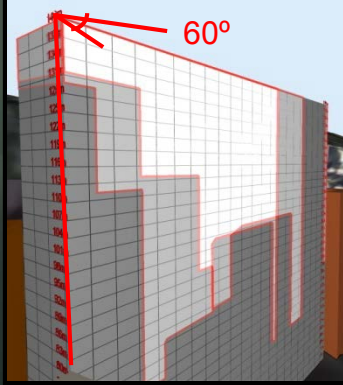
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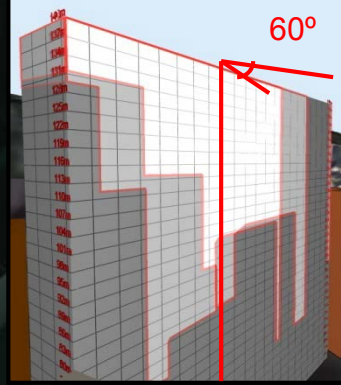
Views from: 135m

135m

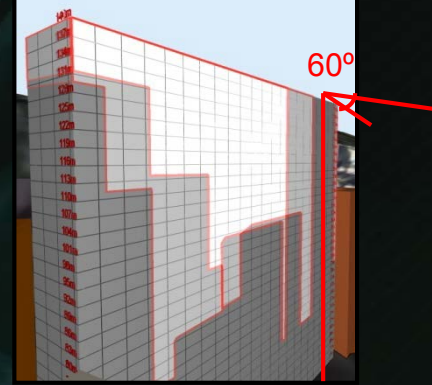
Tin Hau Temple Road No.1



Tin Hau Temple Road No.1



Tin Hau Temple Road No.1



140m

135m

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125m

120m

115m

110m

105m

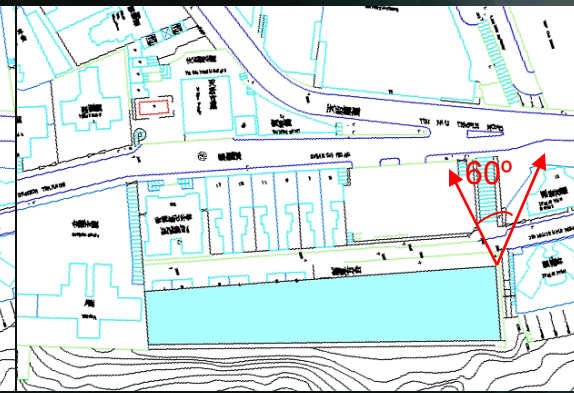
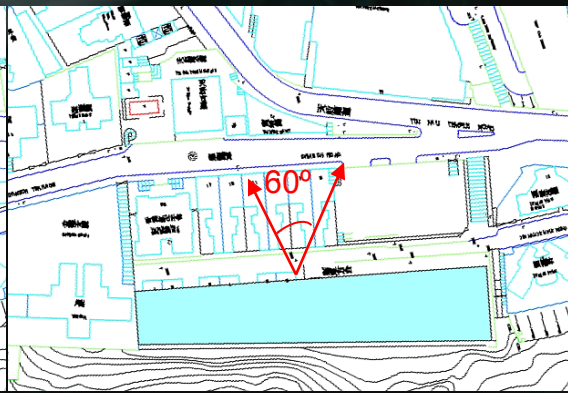
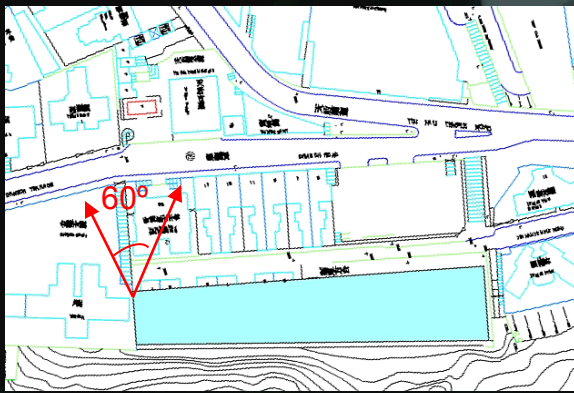
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95m

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85m

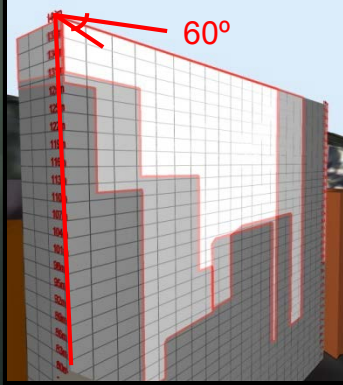
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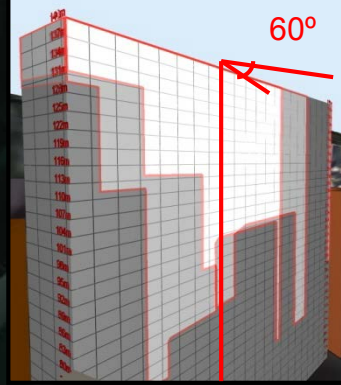
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130m

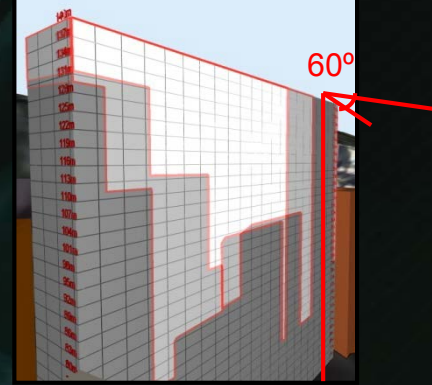
Tin Hau Temple Road No.1



Tin Hau Temple Road No.1



Tin Hau Temple Road No.1



140m

135m

130m

125m

120m

115m

110m

105m

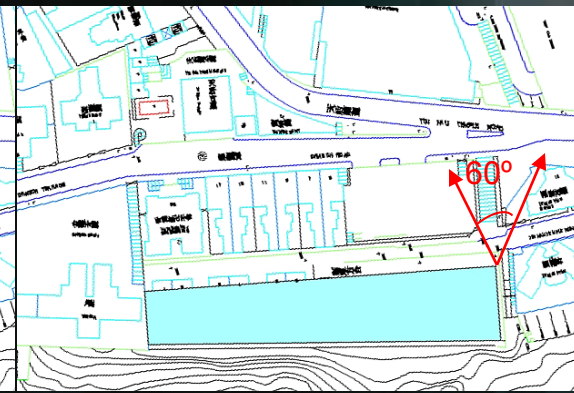
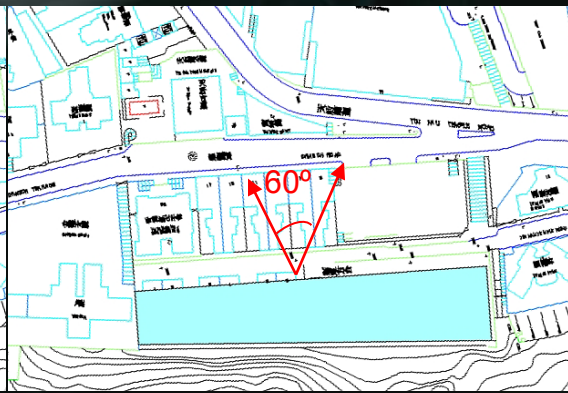
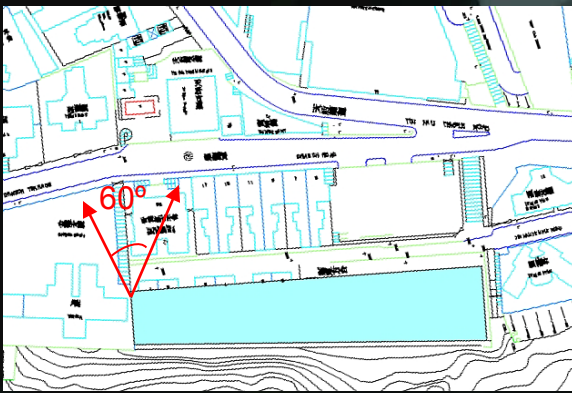
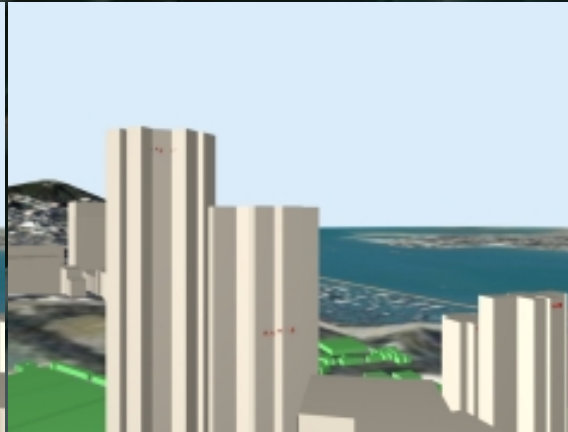
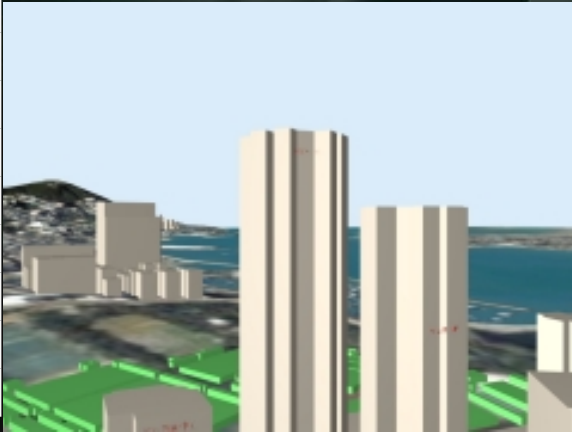
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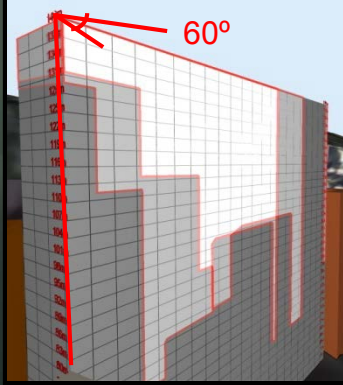
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Views from: 125m

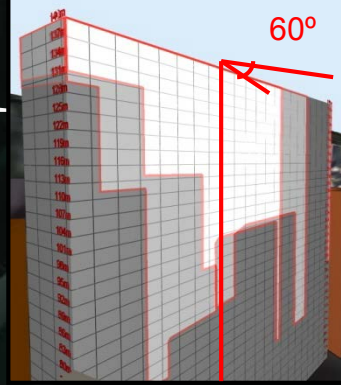
125m

Tin Hau Temple Road No.1



1

Tin Hau Temple Road No.1



Tin Hau Temple Road No.1



140m

135m

130m

125m

120m

115m

110m

105m

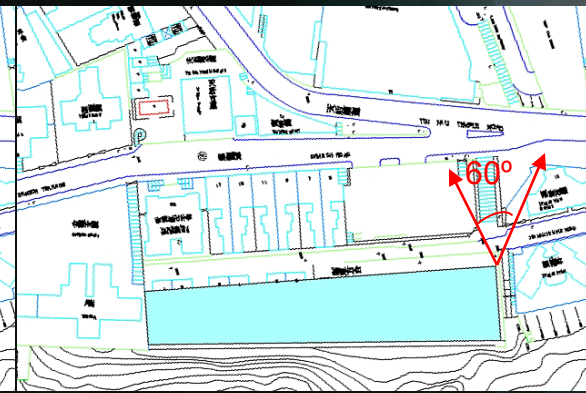
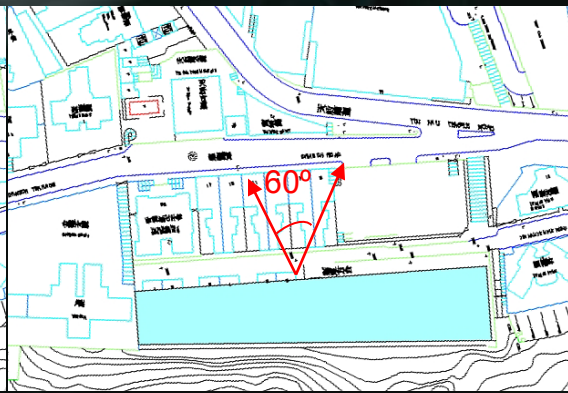
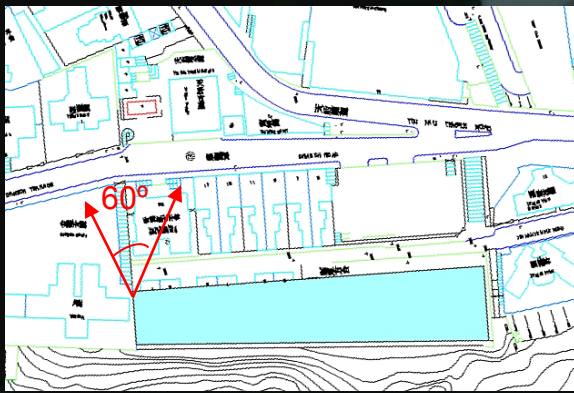
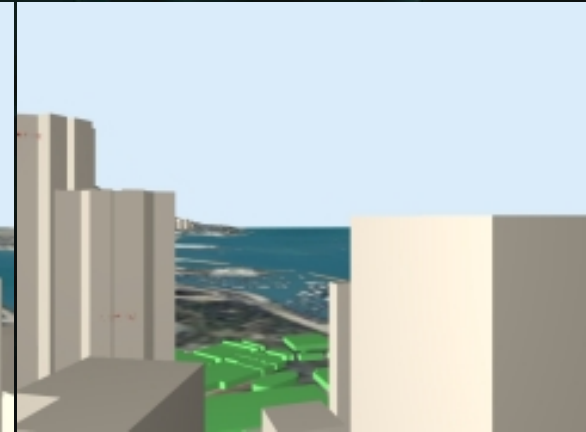
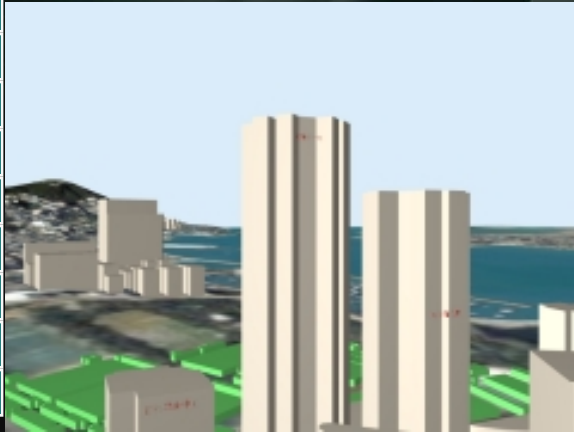
100m

95m

90m

85m

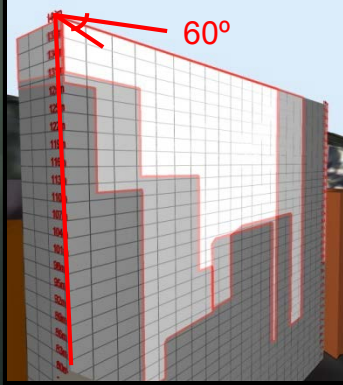
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Views from: 120m

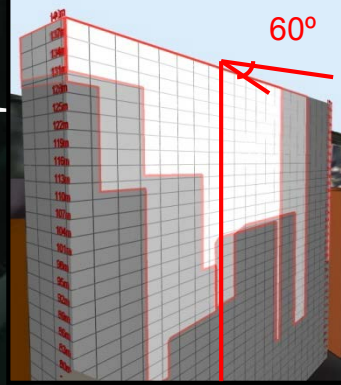
120m

Tin Hau Temple Road No.1



1

Tin Hau Temple Road No.1



Tin Hau Temple Road No.1



140m

135m

130m

125m

120m

115m

110m

105m

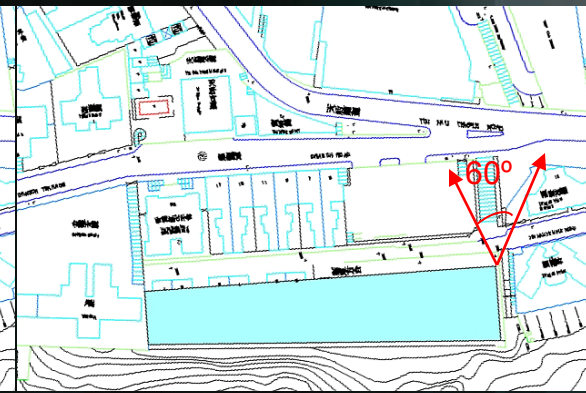
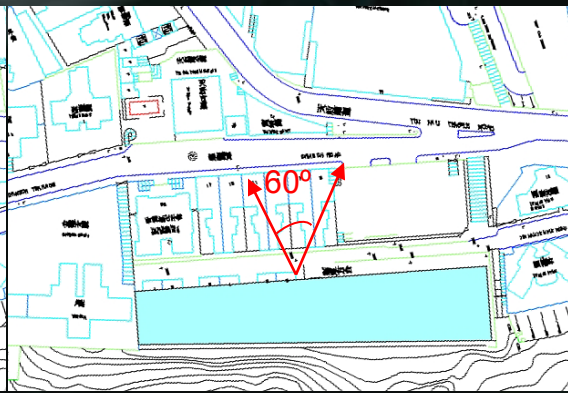
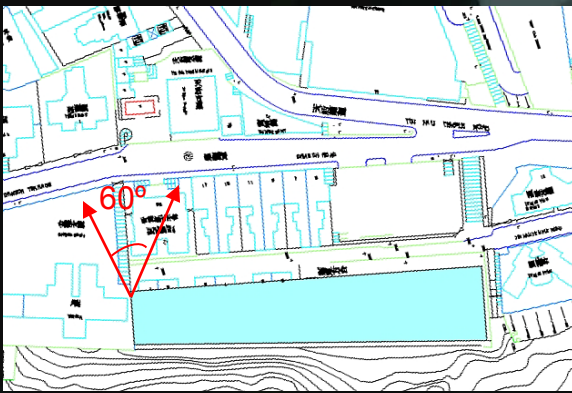
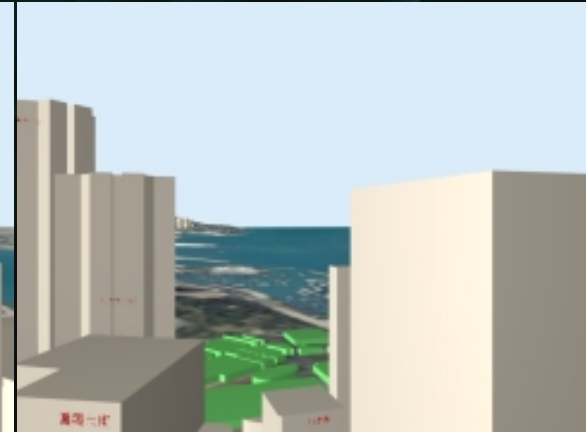
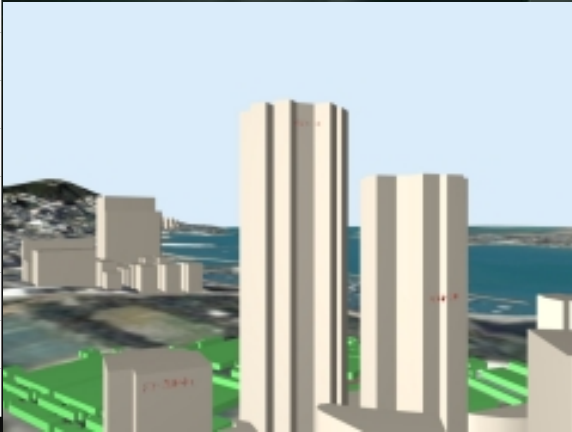
100m

95m

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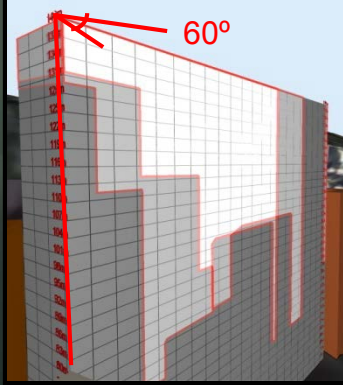
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Views from: 115m

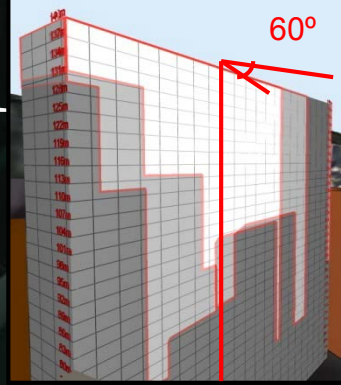
115m

Tin Hau Temple Road No.1



1

Tin Hau Temple Road No.1



Tin Hau Temple Road No.1



140m

135m

130m

125m

120m

115m

110m

105m

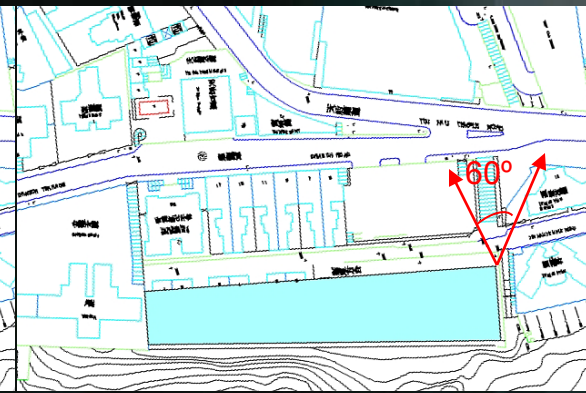
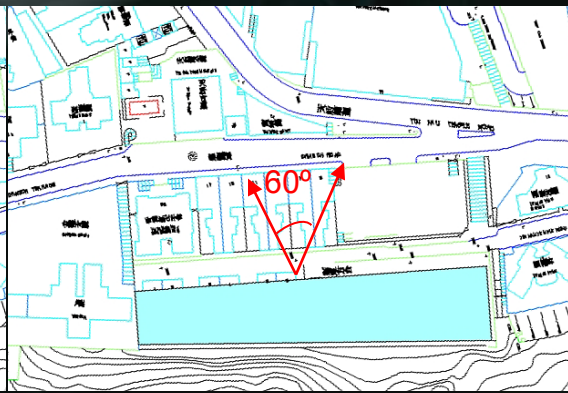
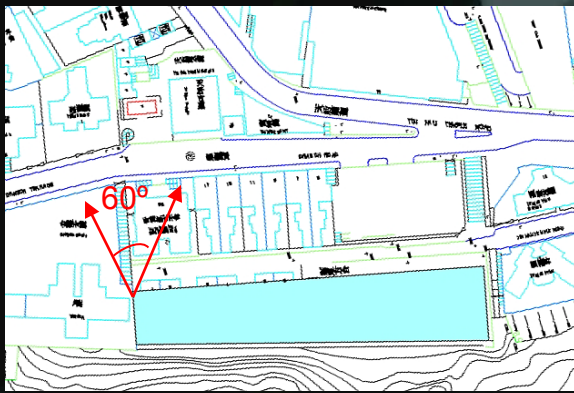
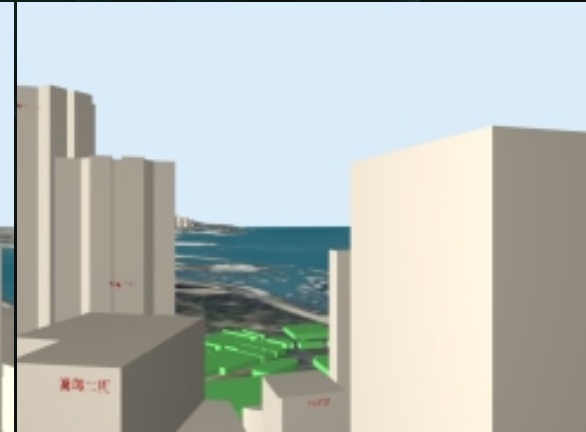
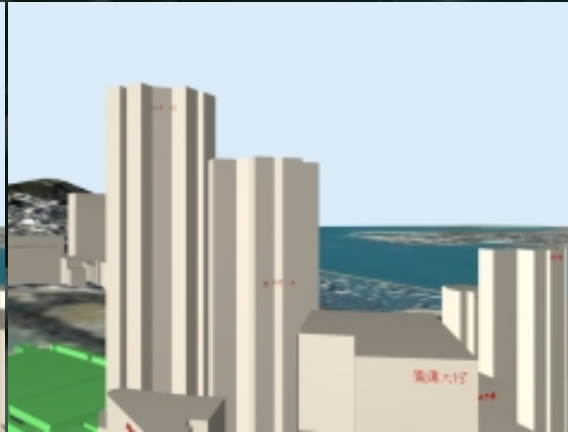
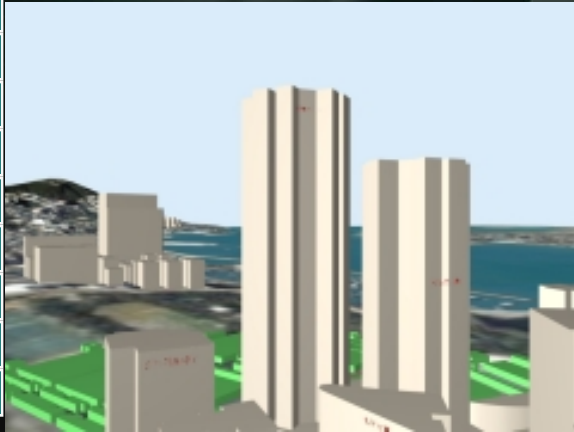
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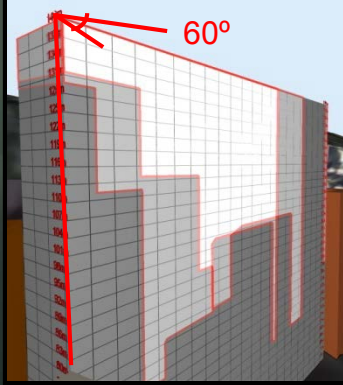
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Views from: 110m

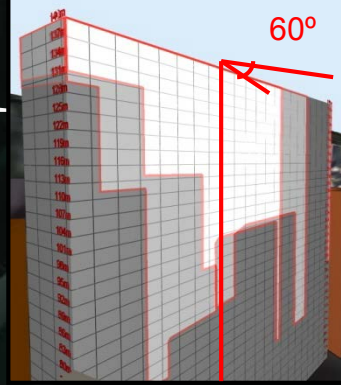
110m

Tin Hau Temple Road No.1



1

Tin Hau Temple Road No.1



Tin Hau Temple Road No.1



140m

135m

130m

125m

120m

115m

110m

105m

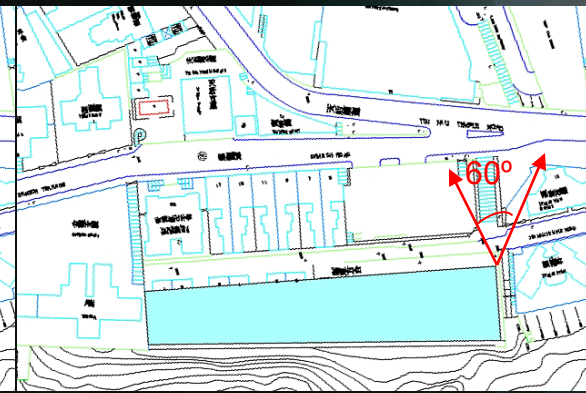
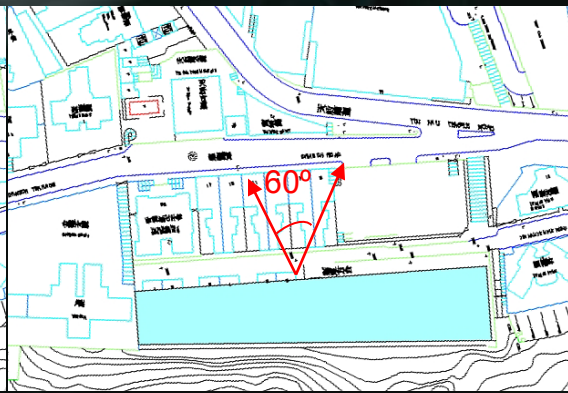
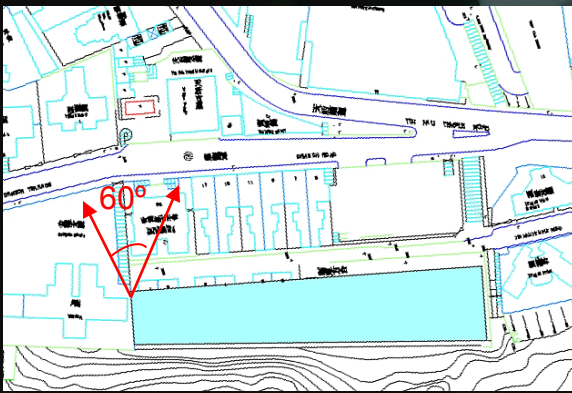
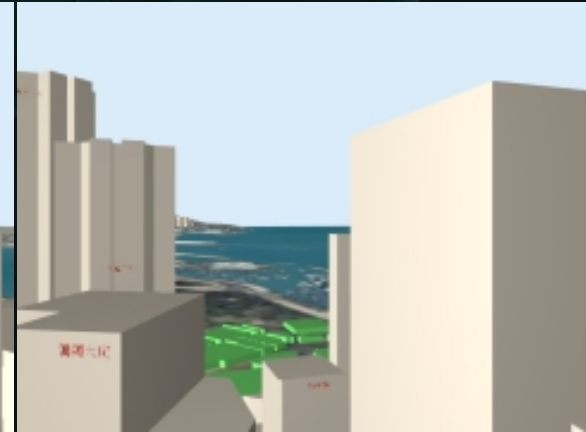
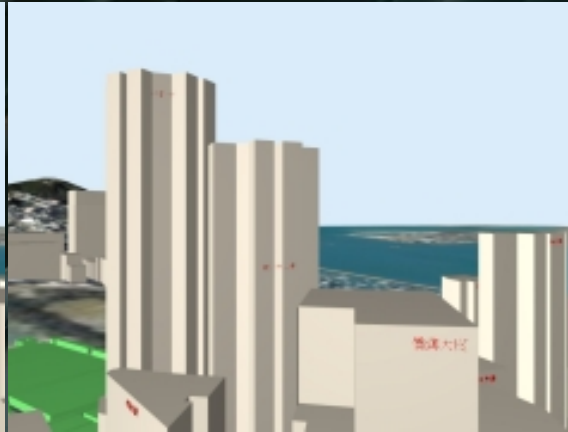
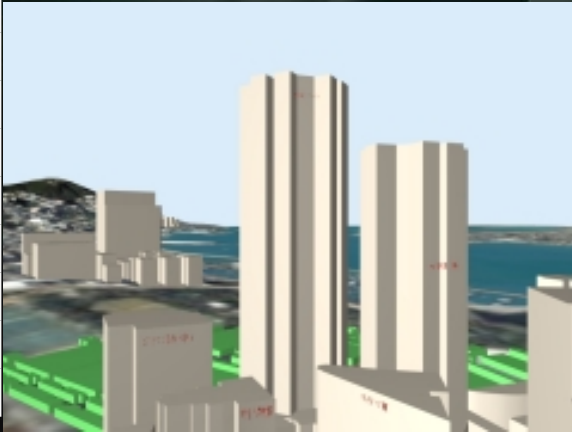
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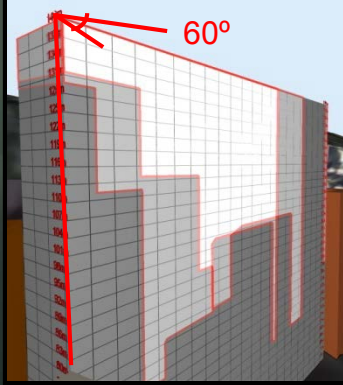
80m



Views from: 105m

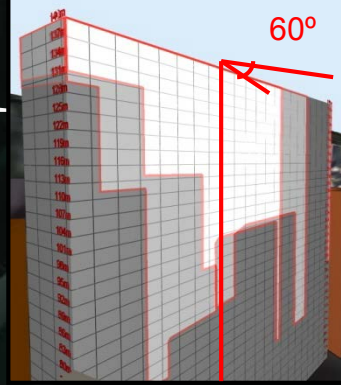
105m

Tin Hau Temple Road No.1

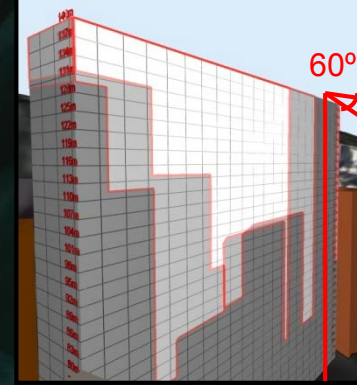


1

Tin Hau Temple Road No.1



Tin Hau Temple Road No.1



140m

135m

130m

125m

120m

115m

110m

105m

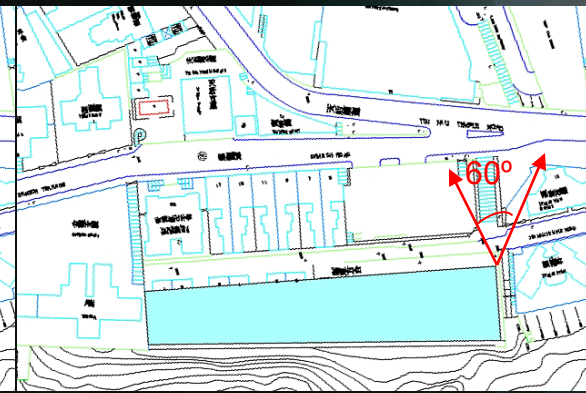
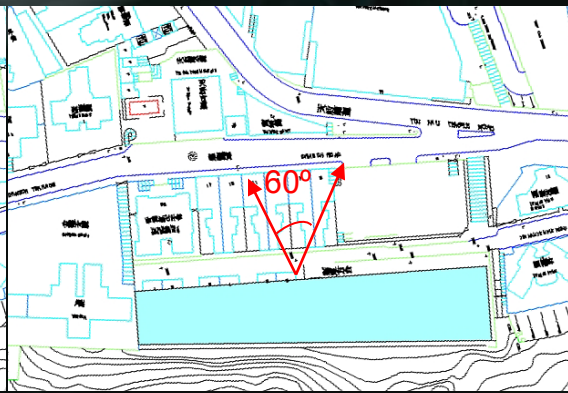
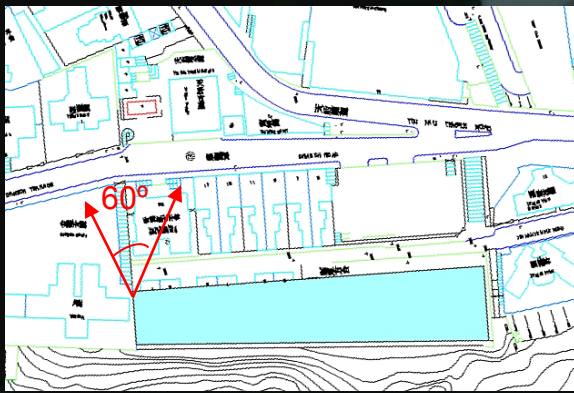
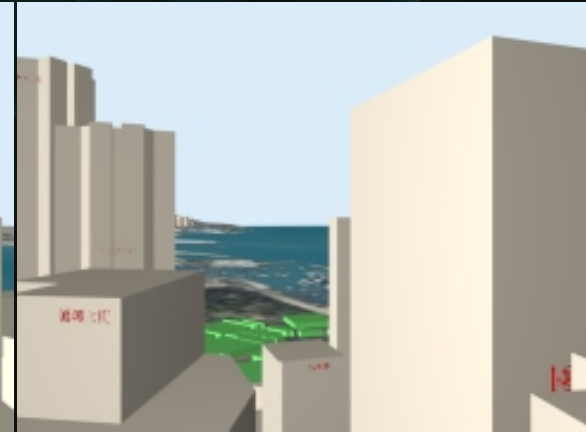
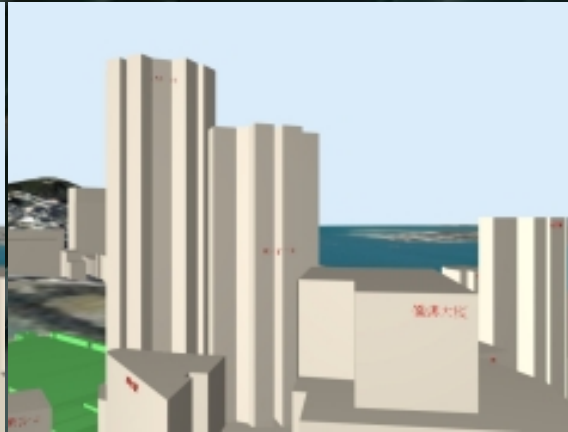
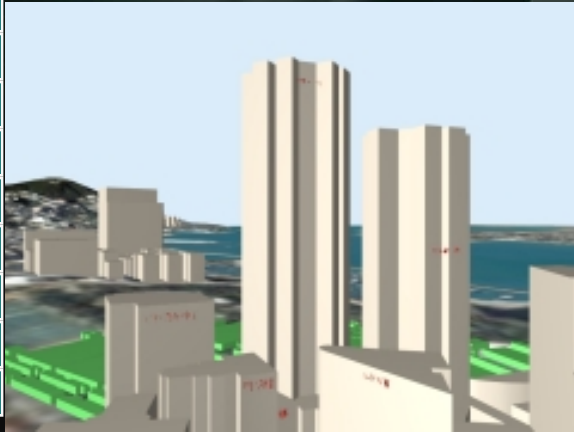
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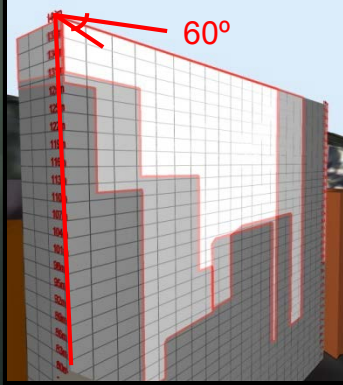
80m



Views from: 100m

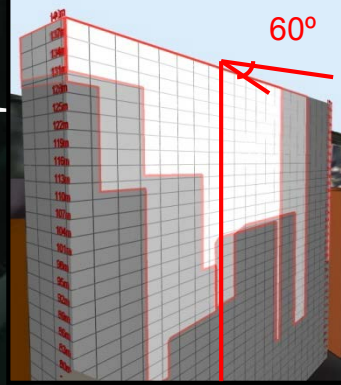
100m

Tin Hau Temple Road No.1



1

Tin Hau Temple Road No.1



Tin Hau Temple Road No.1



140m

135m

130m

125m

120m

115m

110m

105m

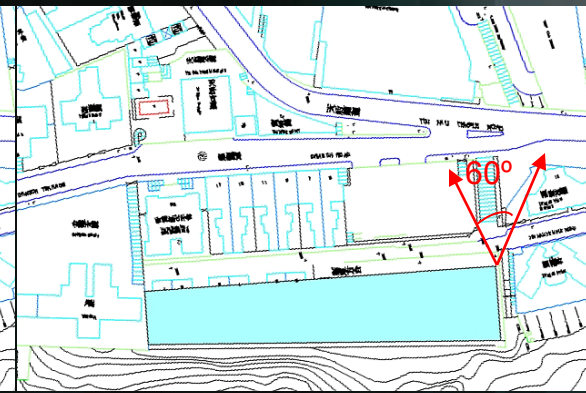
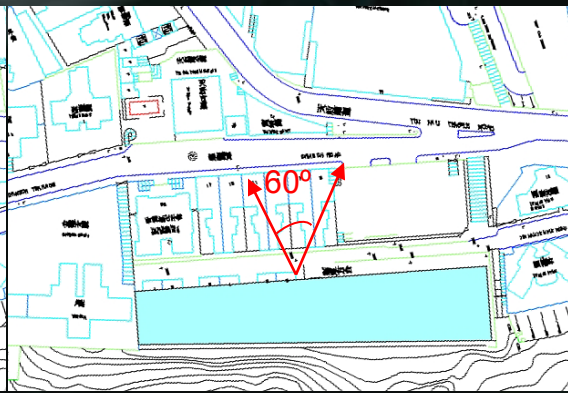
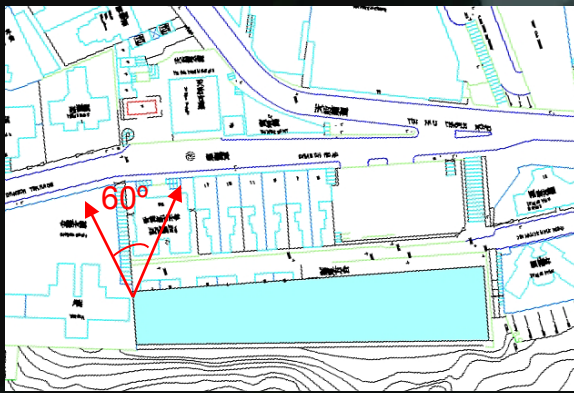
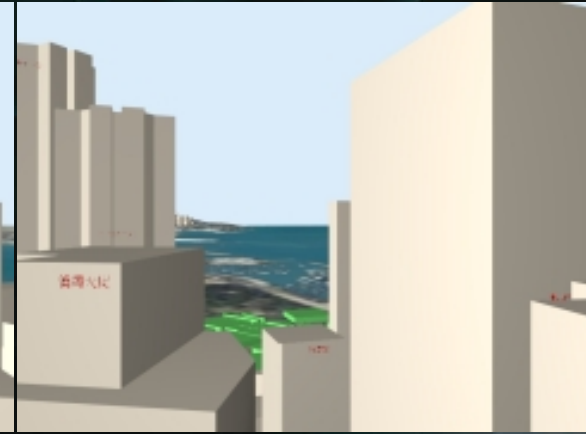
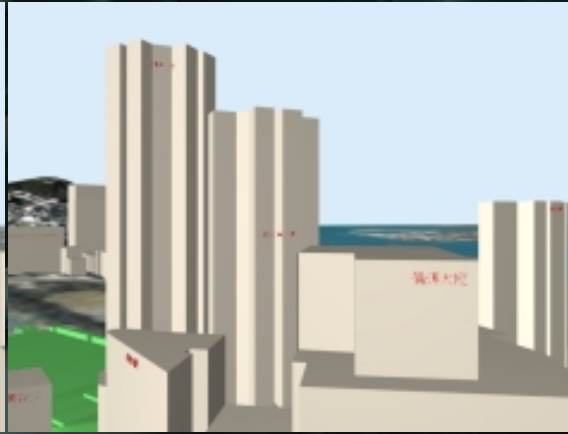
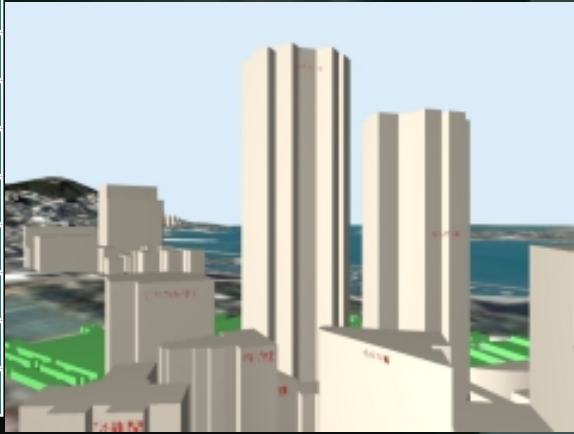
100m

95m

90m

85m

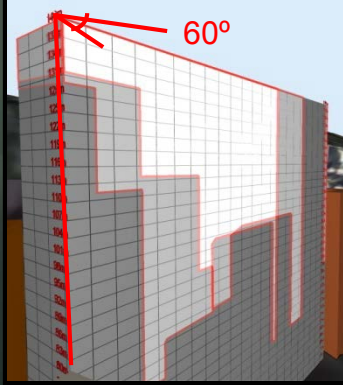
80m



Views from: 95m

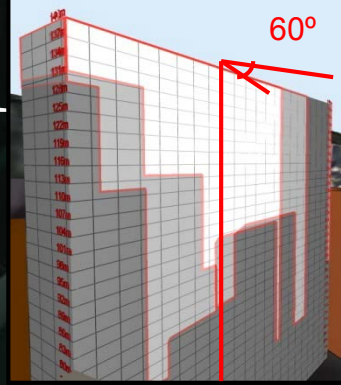
95m

Tin Hau Temple Road No.1

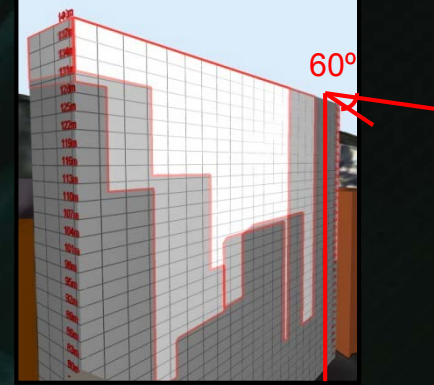


Tin Hau Temple Road No.1

1



Tin Hau Temple Road No.1



140m

135m

130m

125m

120m

115m

110m

105m

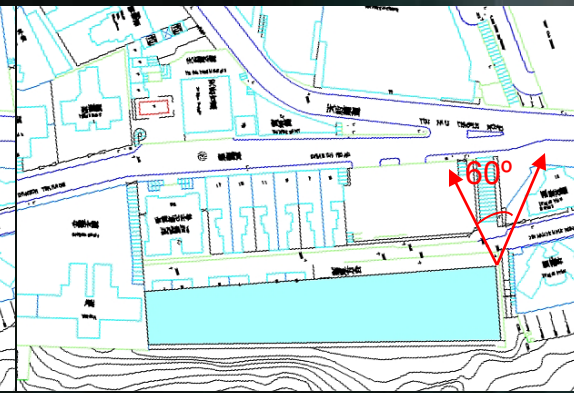
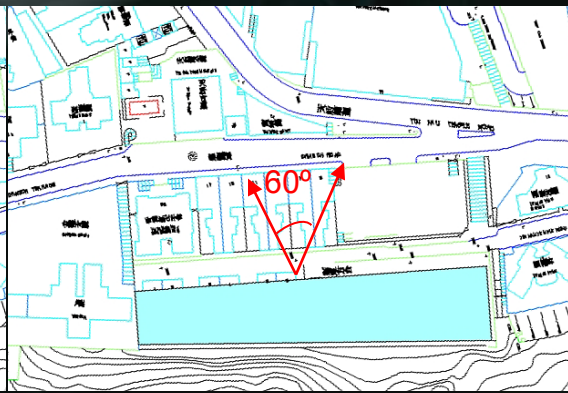
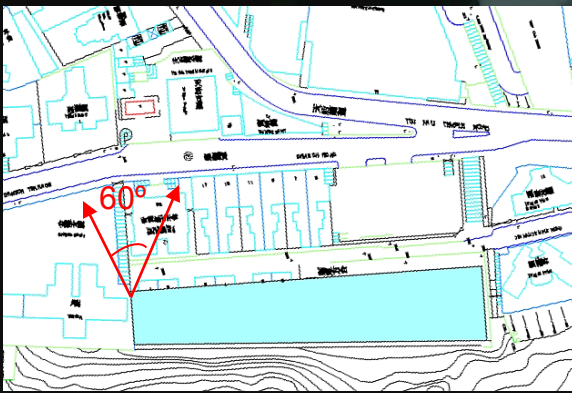
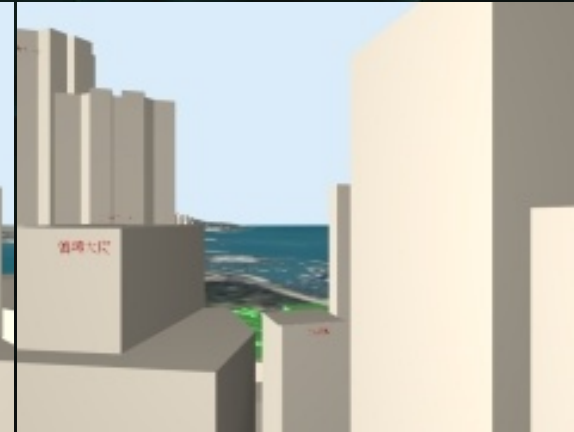
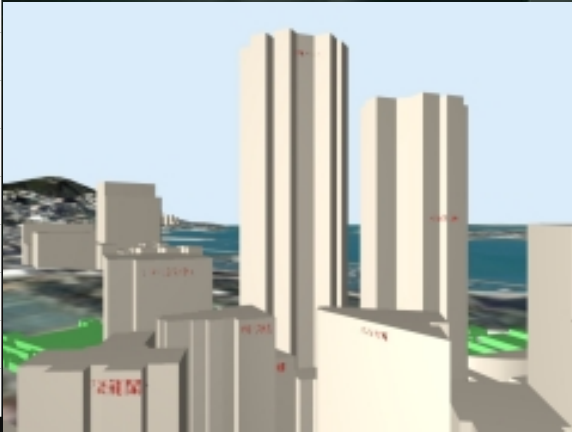
100m

95m

90m

85m

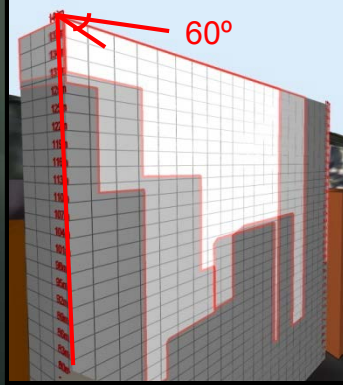
80m



Views from: 90m

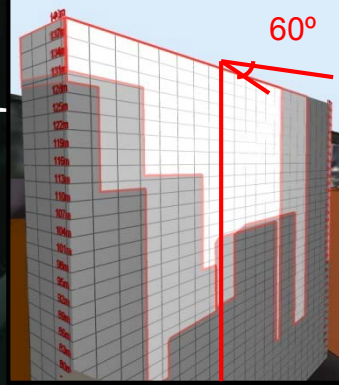
90m

Tin Hau Temple Road No.1

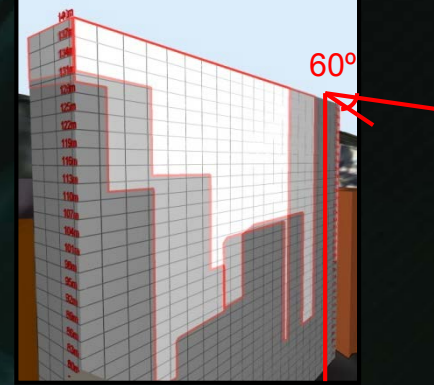


Tin Hau Temple Road No.1

1



Tin Hau Temple Road No.1



140m

135m

130m

125m

120m

115m

110m

105m

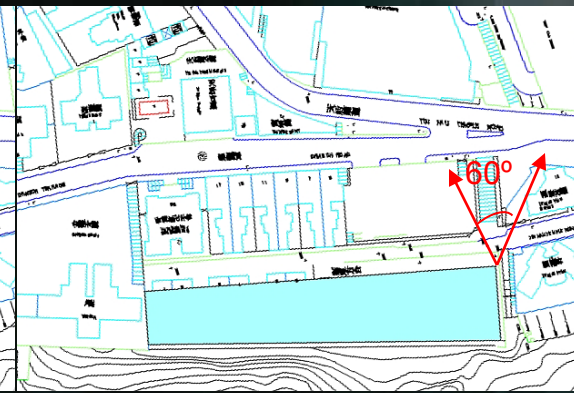
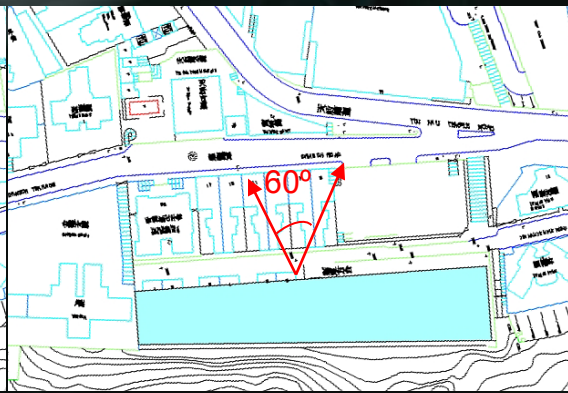
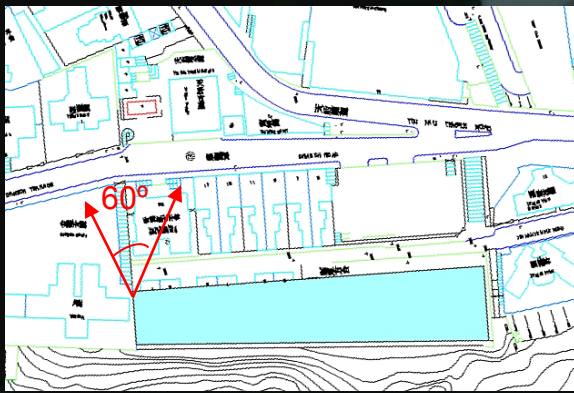
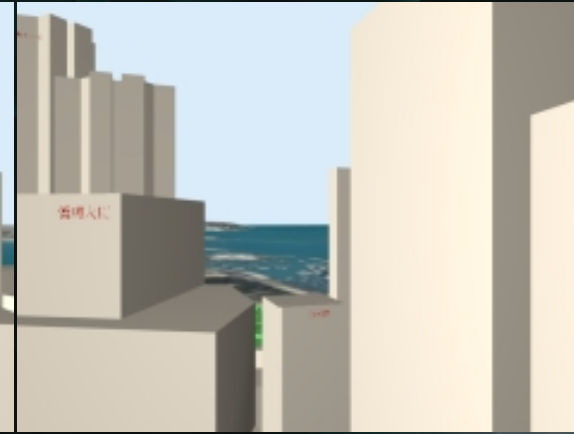
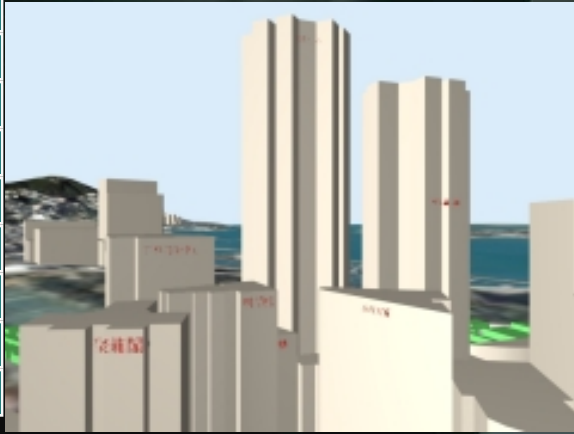
100m

95m

90m

85m

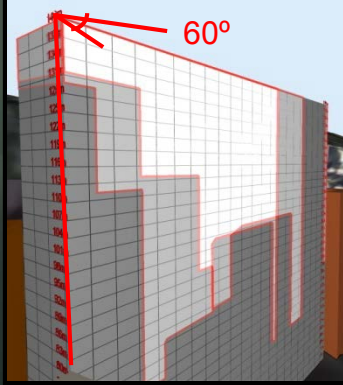
80m



Views from: 85m

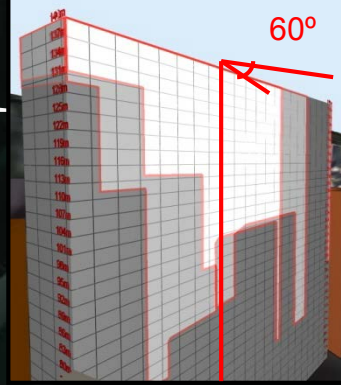
85m

Tin Hau Temple Road No.1

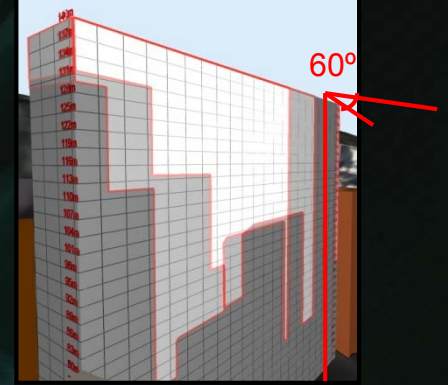


Tin Hau Temple Road No.1

1



Tin Hau Temple Road No.1



140m

135m

130m

125m

120m

115m

110m

105m

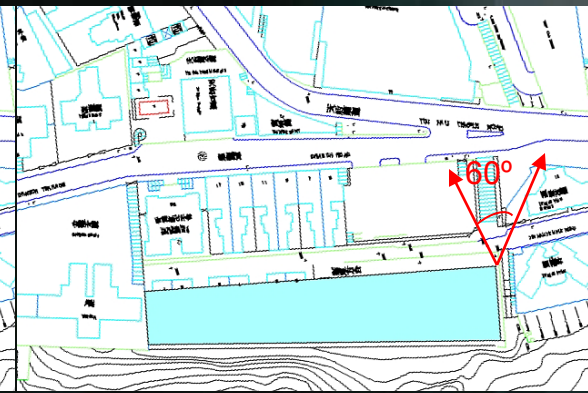
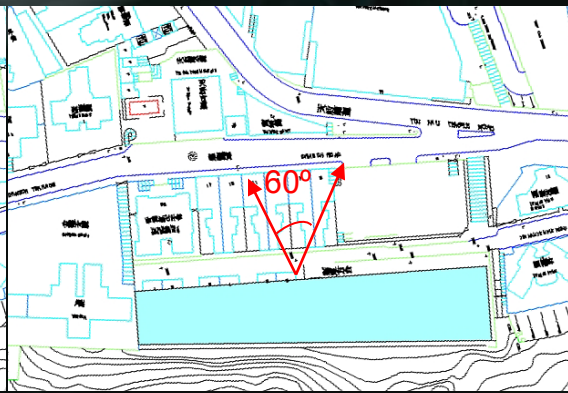
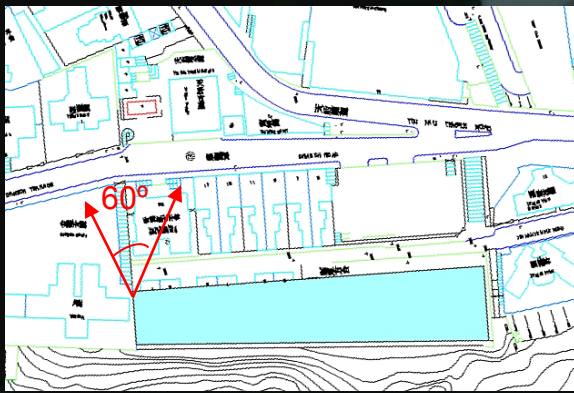
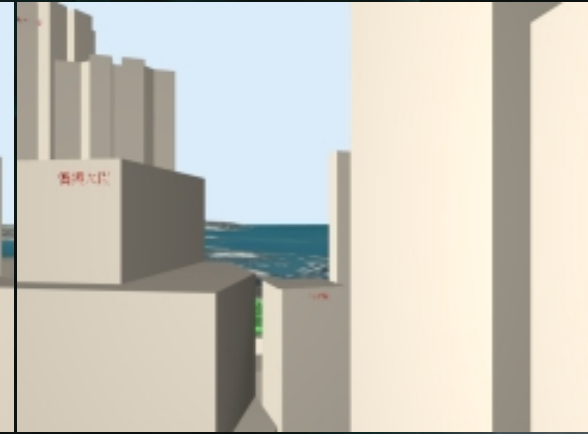
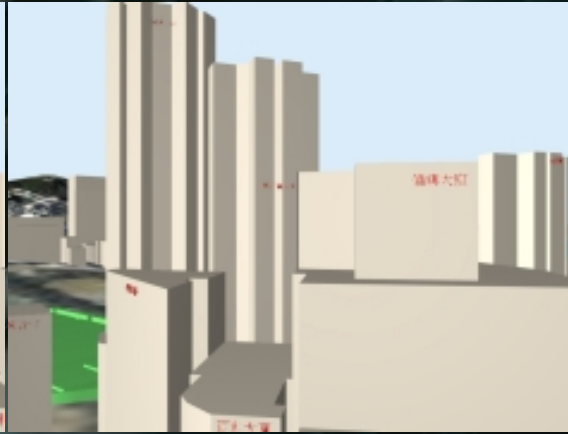
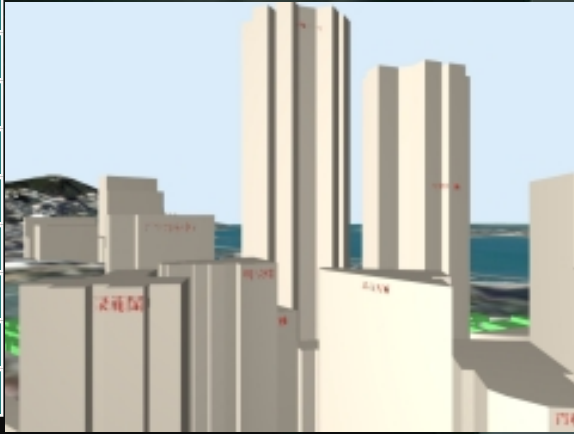
100m

95m

90m

85m

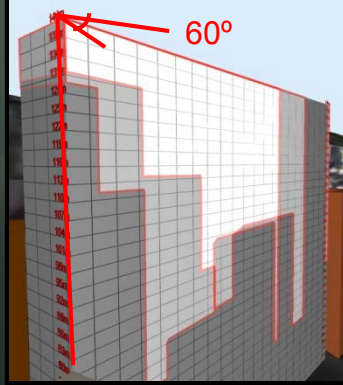
80m



Views from: 80m

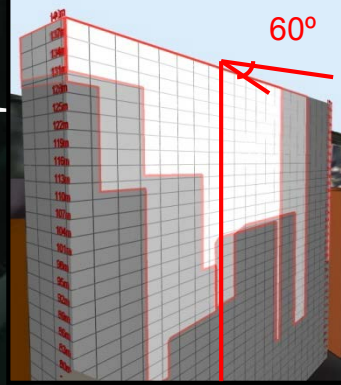
80m

Tin Hau Temple Road No.1

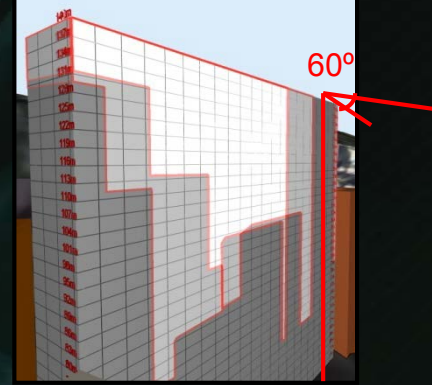


Tin Hau Temple Road No.1

1



Tin Hau Temple Road No.1



140m

135m

130m

125m

120m

115m

110m

105m

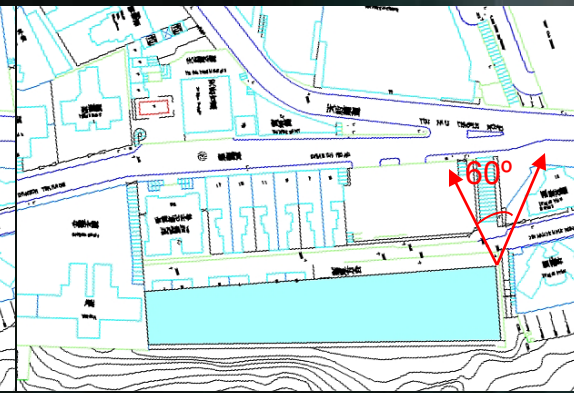
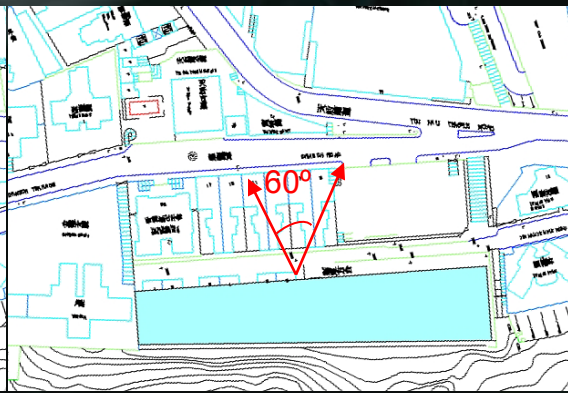
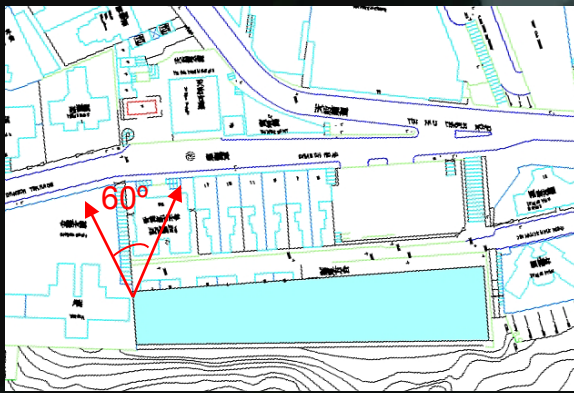
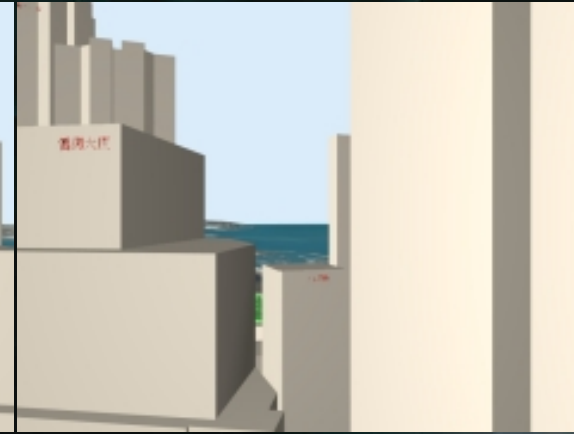
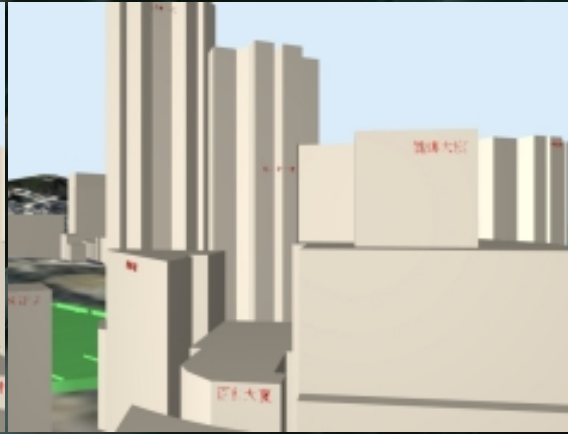
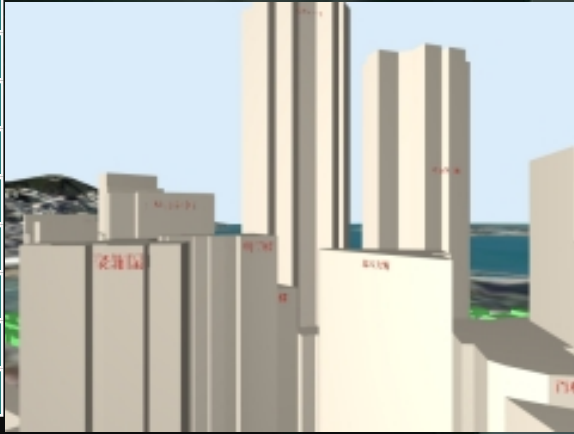
100m

95m

90m

85m

80m



Form A :



Form B :

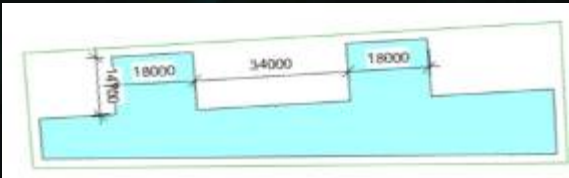
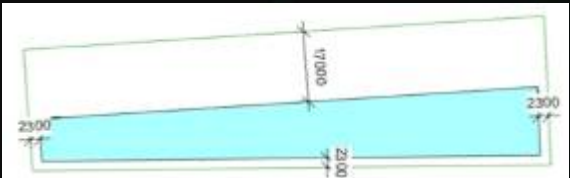
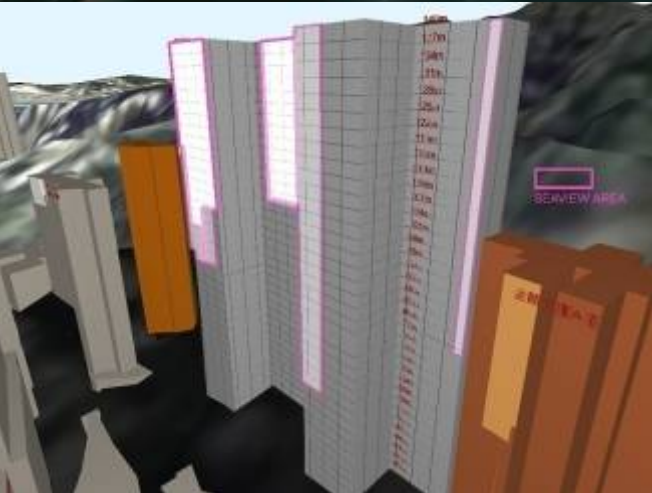
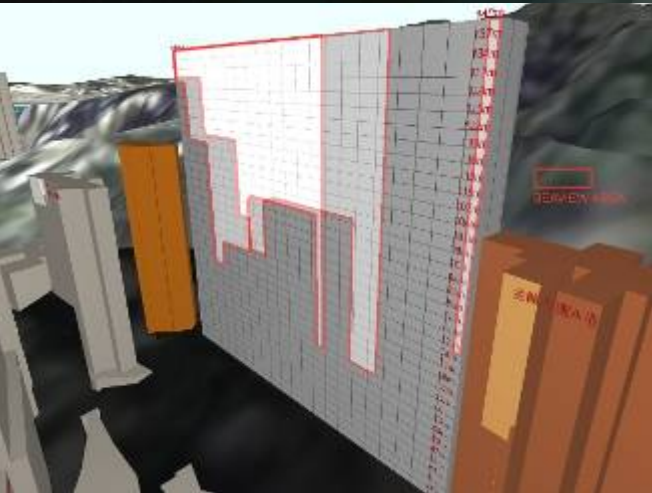


Form A

Sea View Area

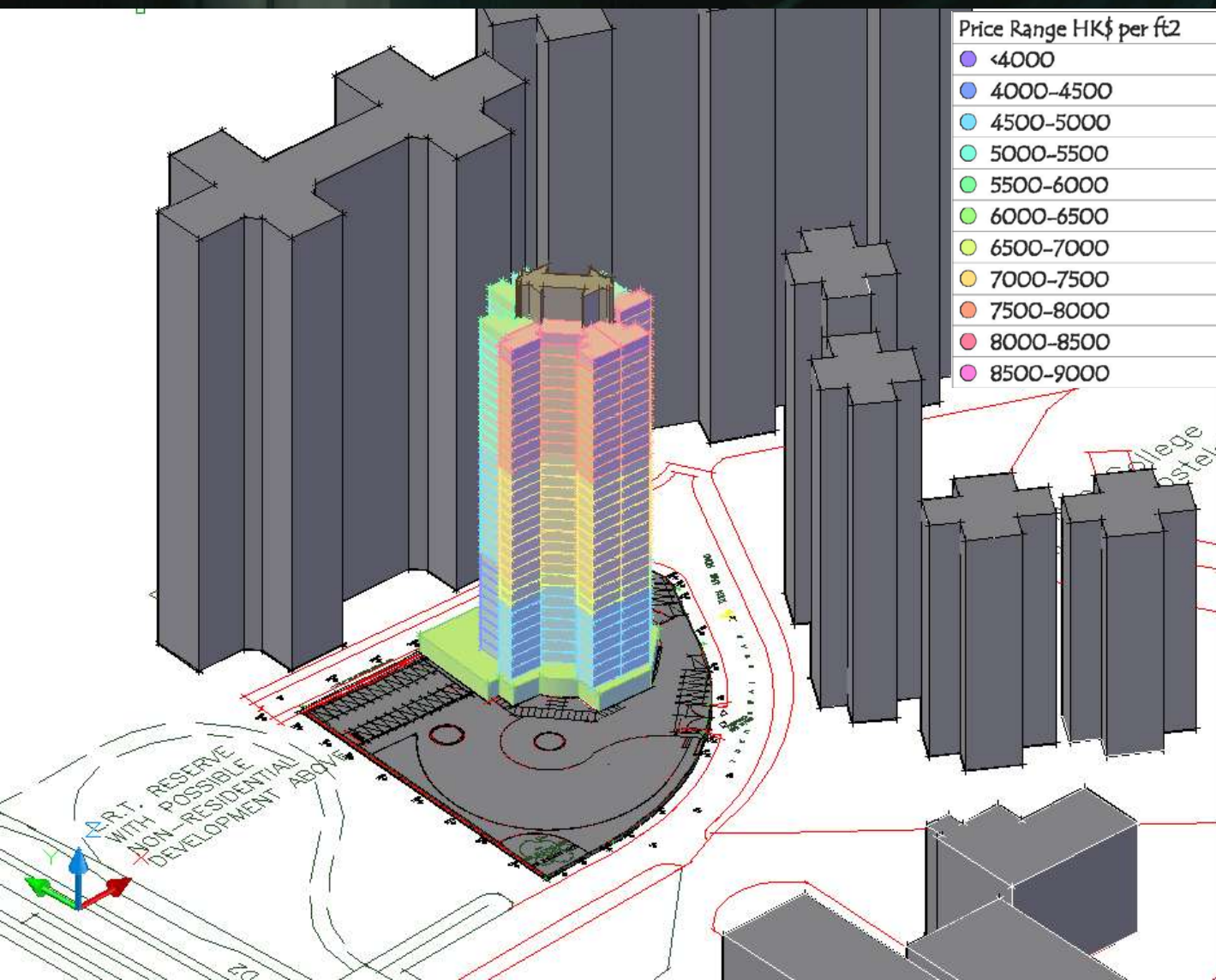
Form B

Sea View Area



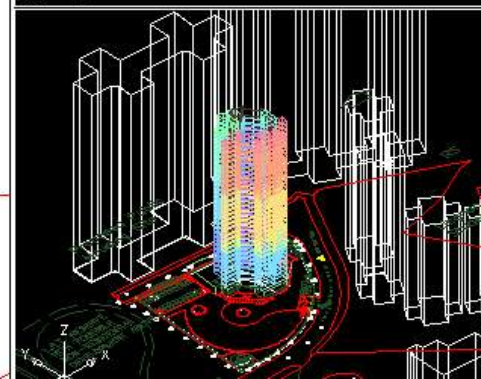
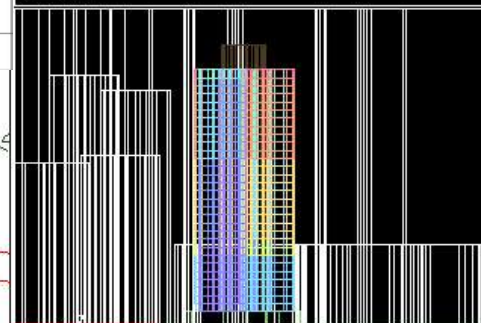
可研通設計平台

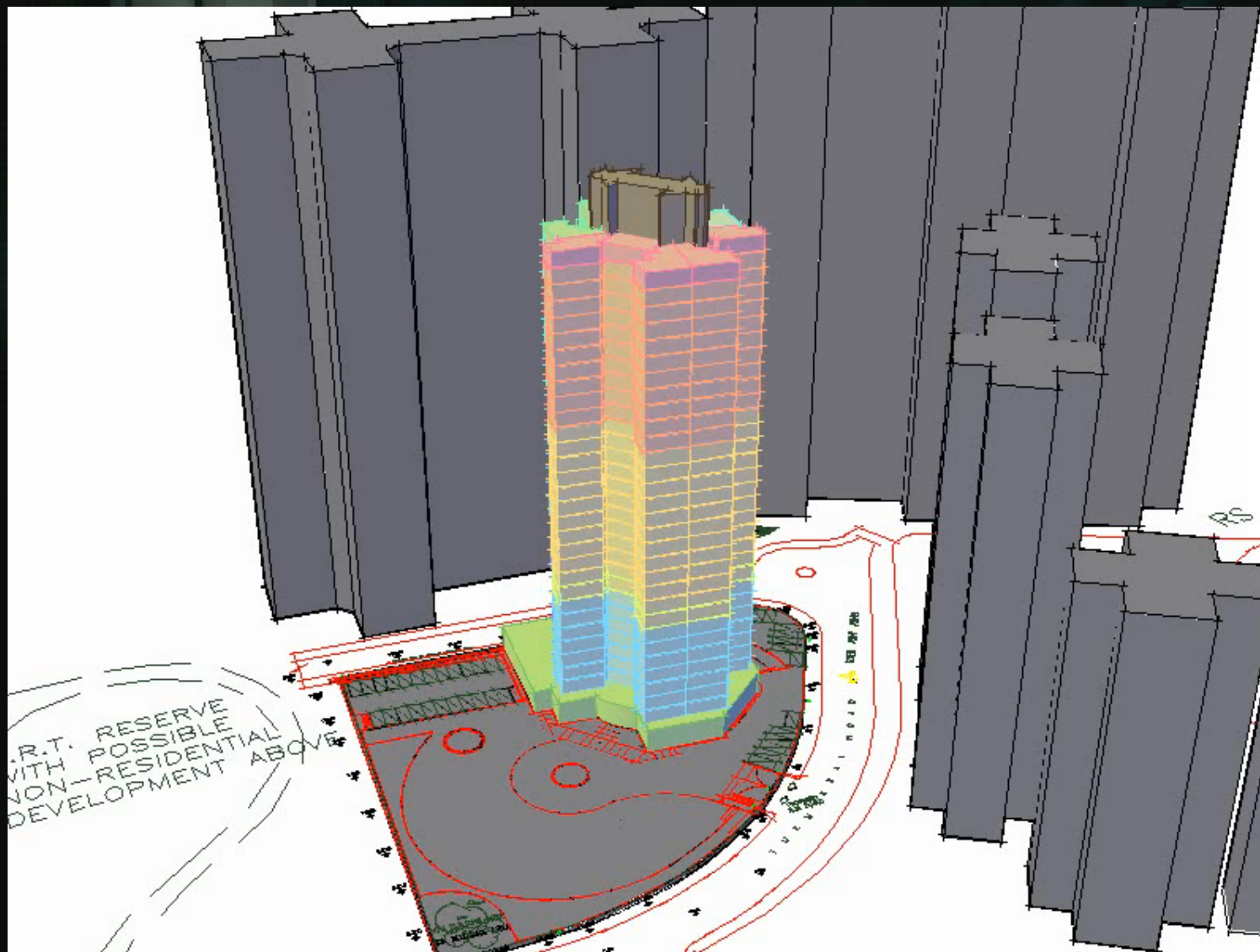
網上整合佈置,收益,景觀,成本,等等數據



Analysis

Area	Price / Flat
66	\$3,256,000
50	\$2,198,000
15780	\$967,386,000



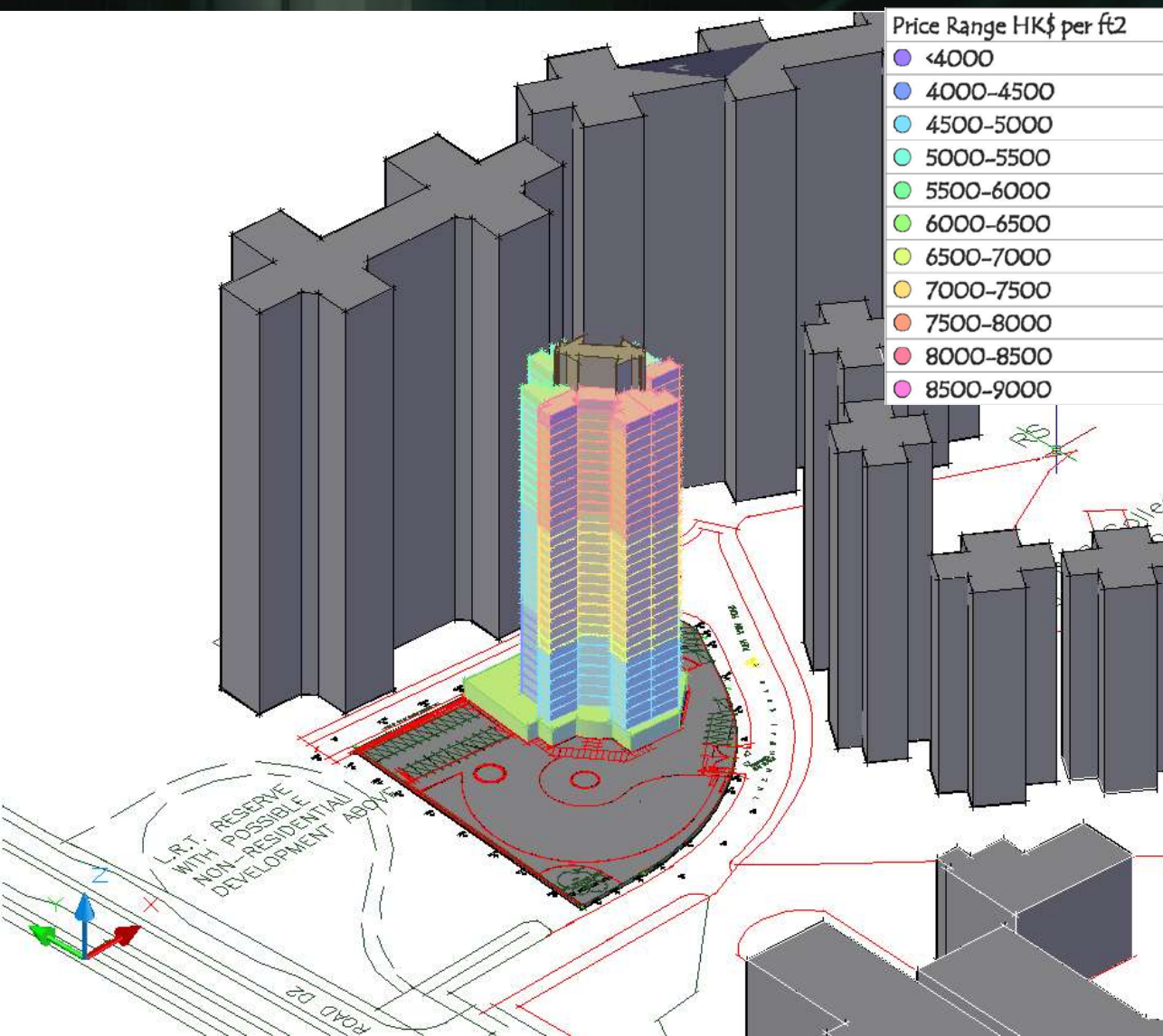


Price Range HK\$ per ft²

- <4000
- 4000-4500
- 4500-5000
- 5000-5500
- 5500-6000
- 6000-6500
- 6500-7000
- 7000-7500
- 7500-8000
- 8000-8500
- 8500-9000

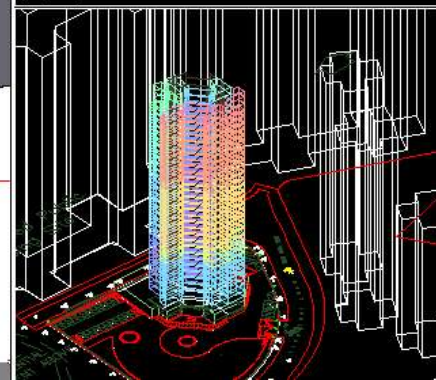
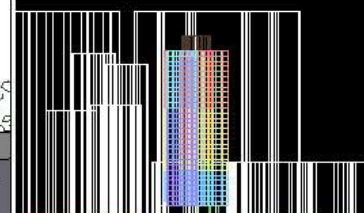


可研通設計平台 網上整合佈置,收益,景觀,成本,等等數據



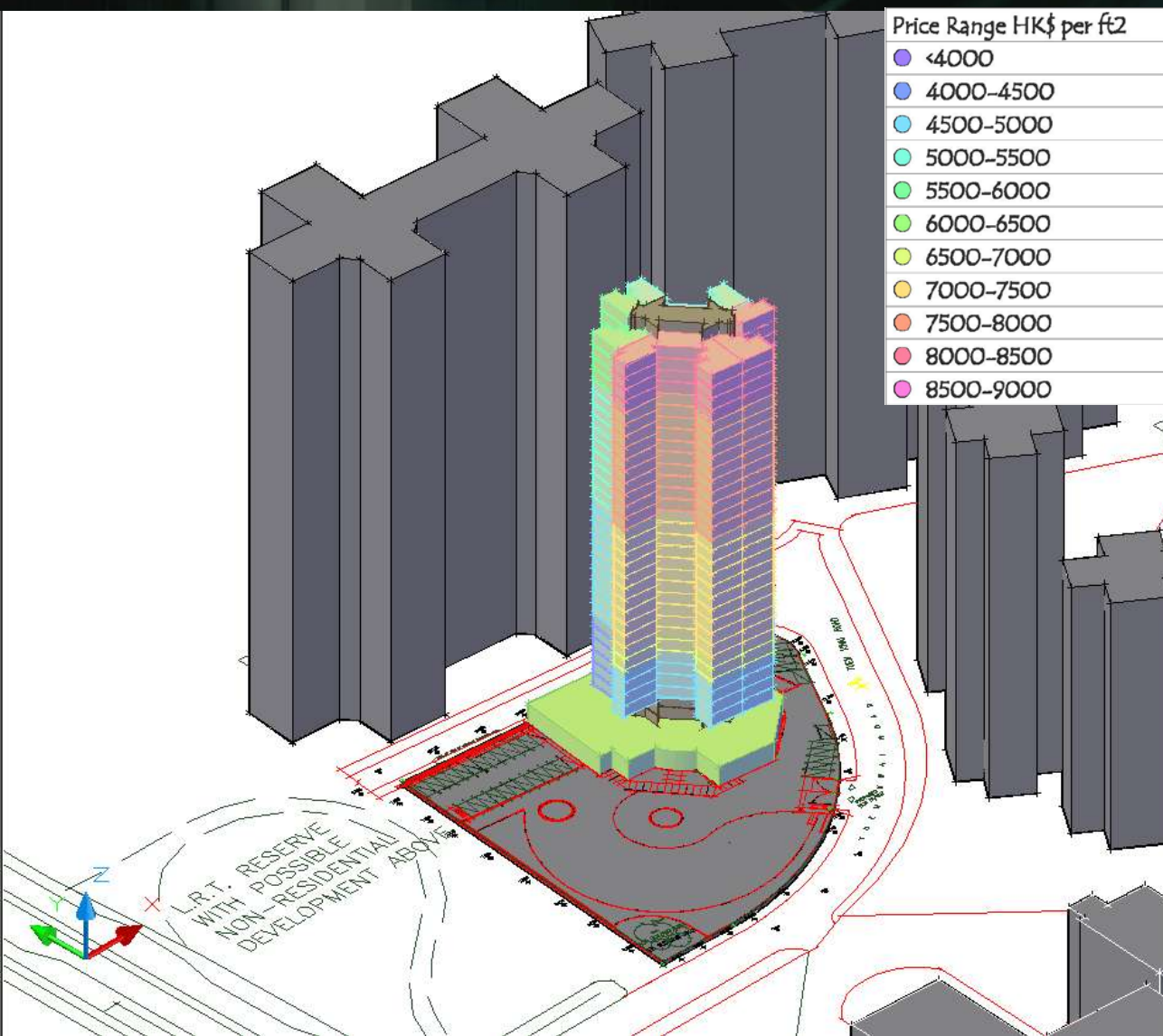
Analysis

Area	Price / Flat
66	\$3,256,000
50	\$2,198,000
15780	\$967,386,000



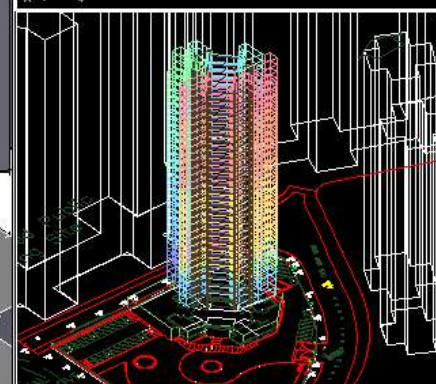
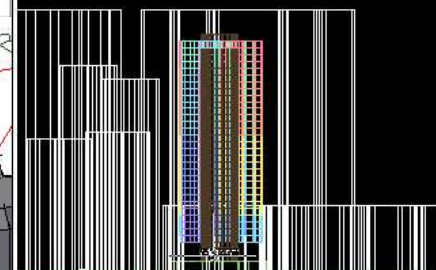
可研通設計平台

網上整合佈置,收益,景觀,成本,等等數據

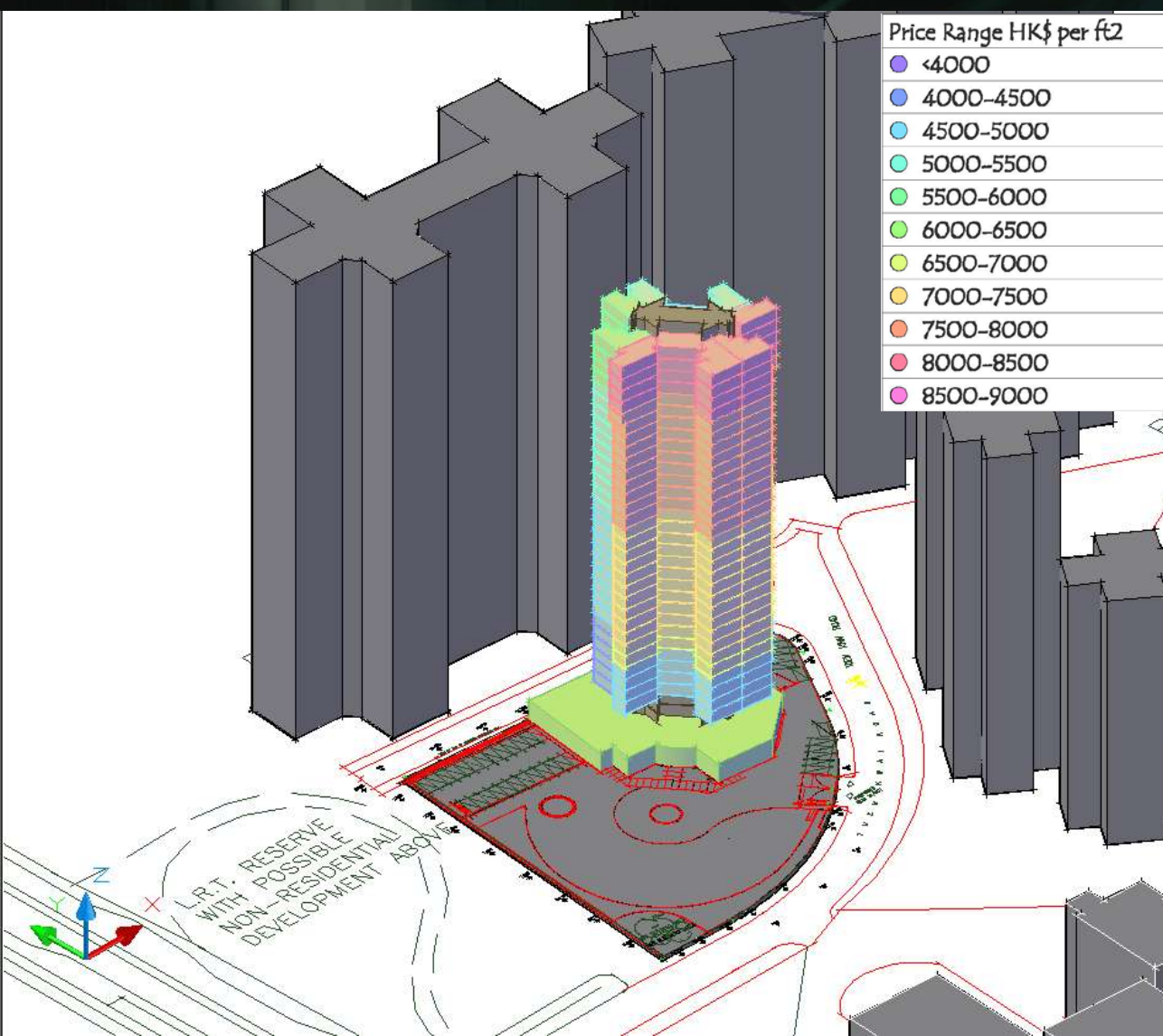


Value Analysis

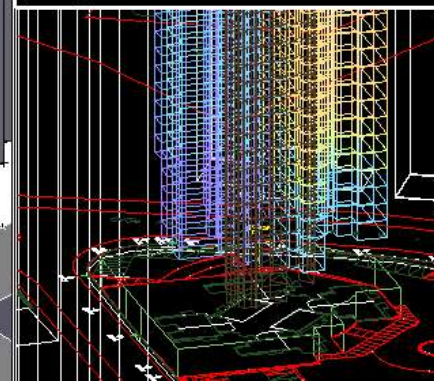
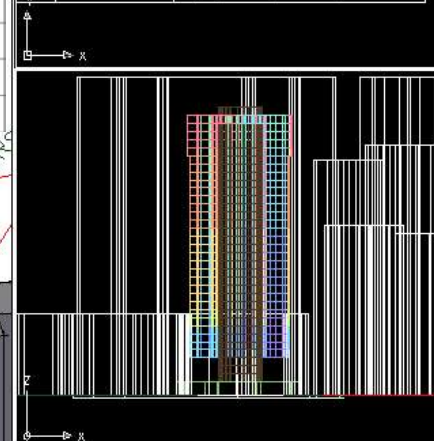
ft2	Area	Price / Flat
3	66	\$3,363,000
3	50	\$2,279,000
	15780	\$1,010,820,000

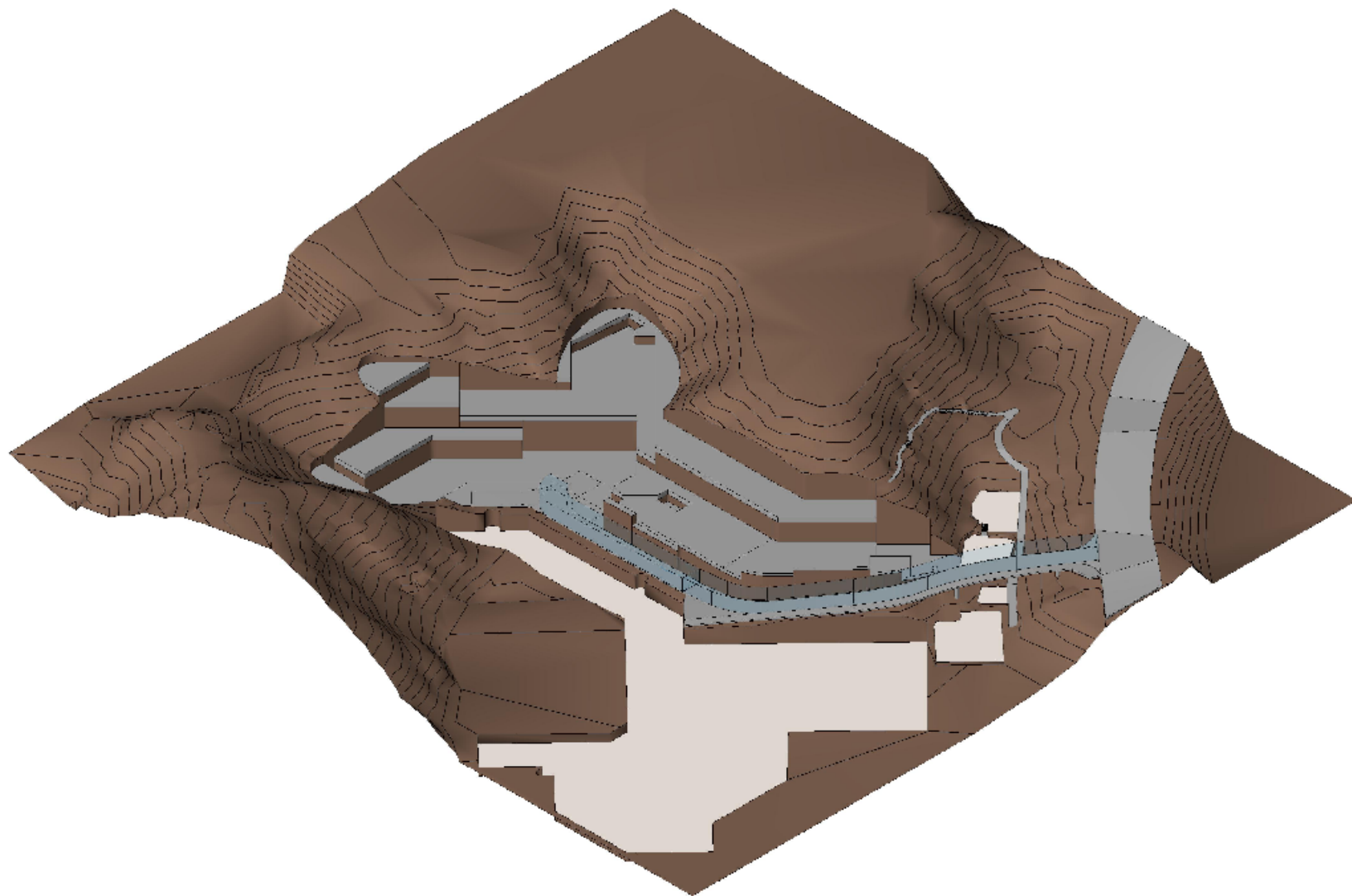


可研通設計平台
網上整合佈置,收益,景觀,成本,等等數據

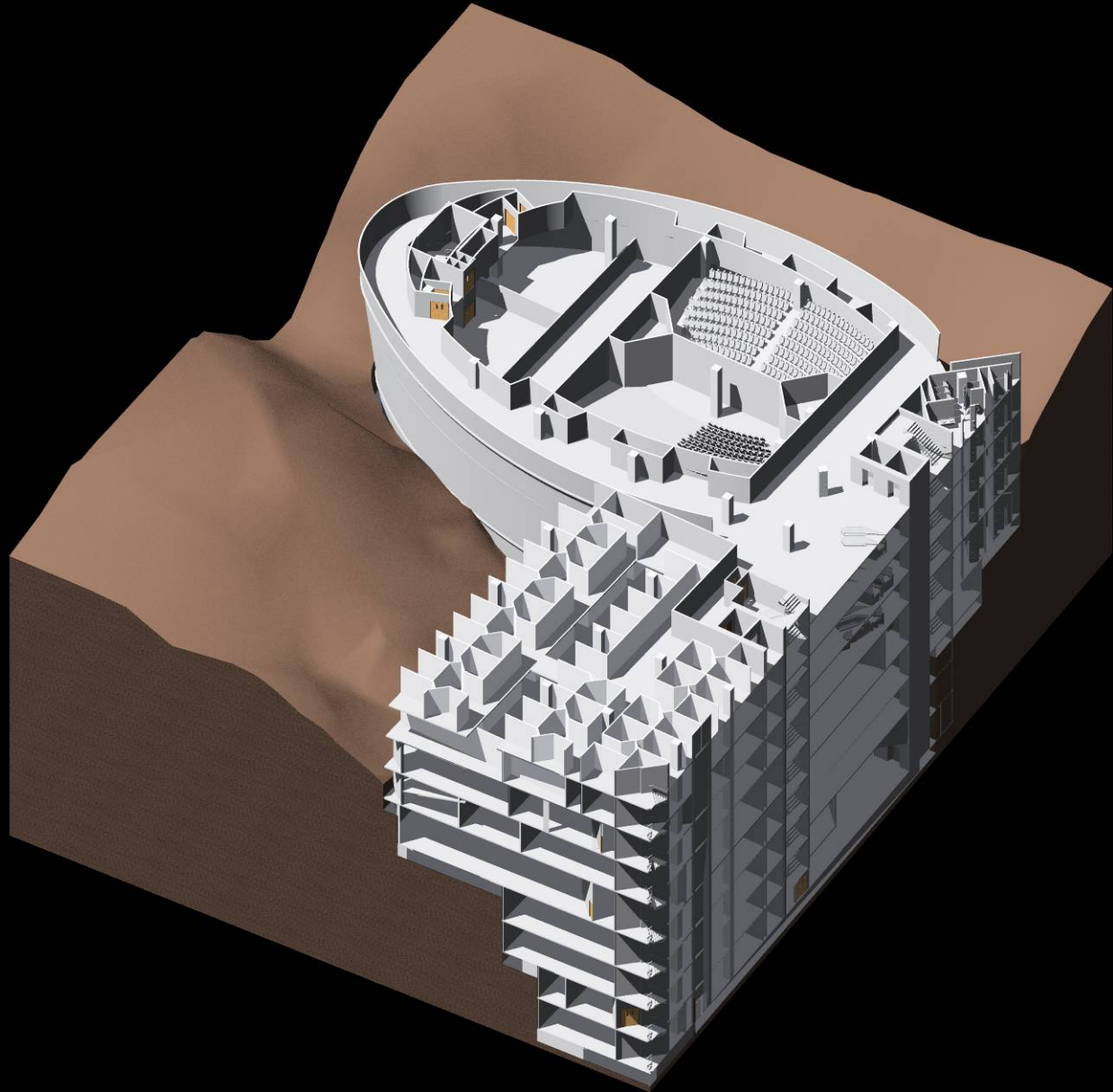


45	\$2,051,000
50	\$2,010,000
65	\$3,312,000
66	\$3,363,000
46	\$1,849,000
50	\$2,279,000
15780	\$1,012,542,000





TOPOGRAPHY HANDLING



BUILDING IN SITE CONTEXT

VISUALIZATION & DRAWING PRODUCTION



VISUALIZATION & PRODUCTION





PERSPECTIVE

VISUALIZATION & PRODUCTION

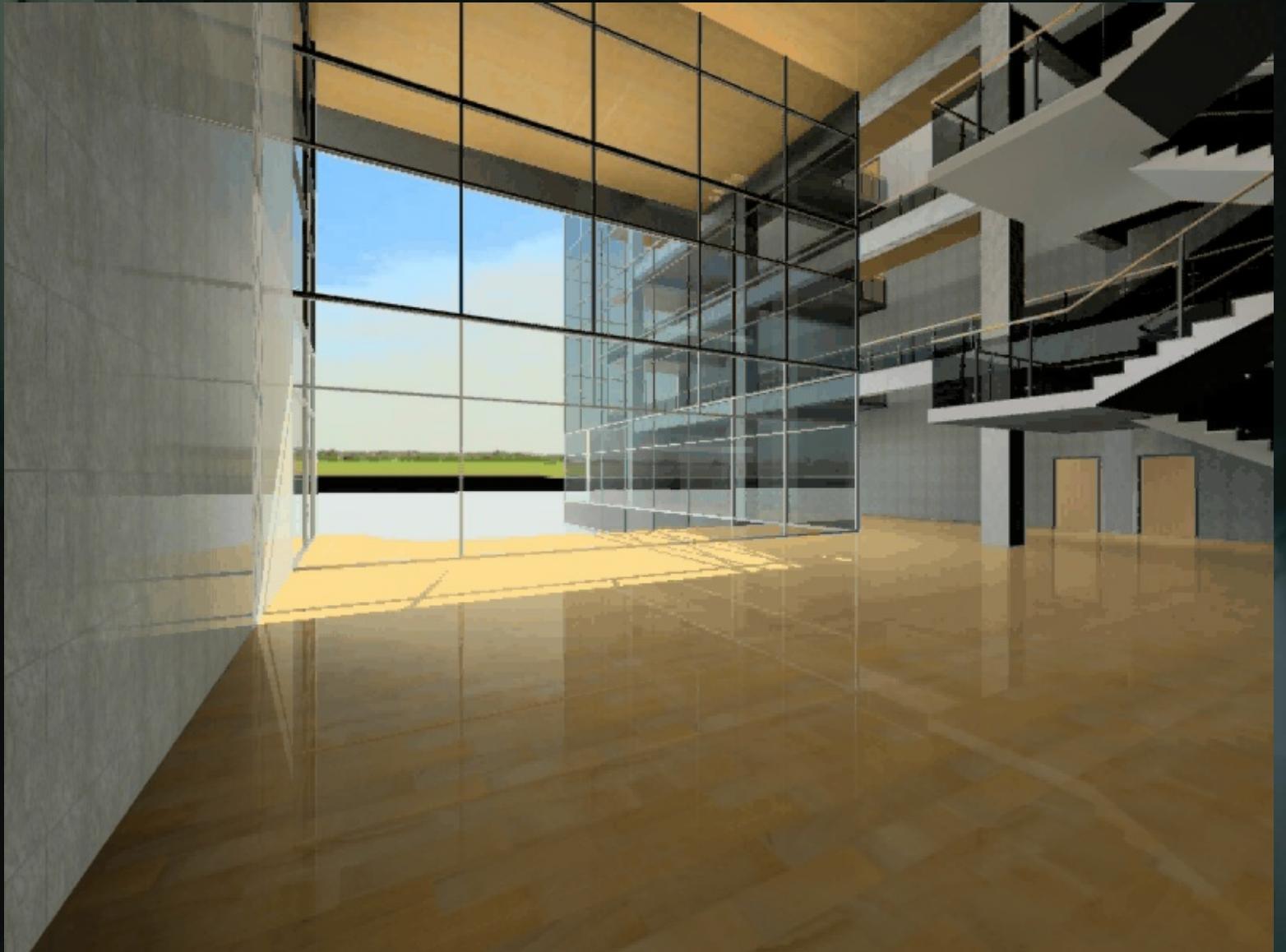


VISUALIZATION & PRODUCTION



VISUALIZATION & PRODUCTION

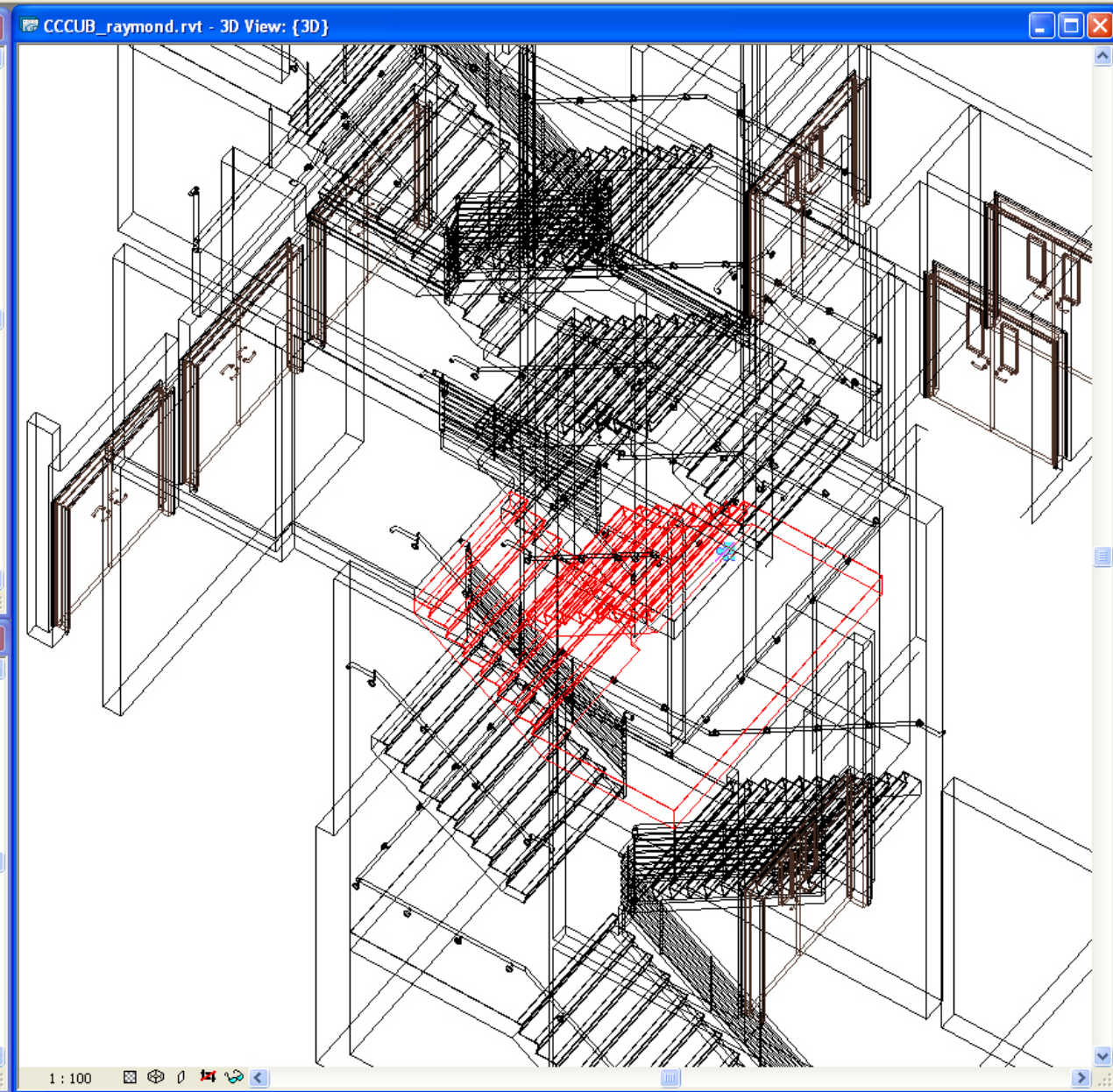
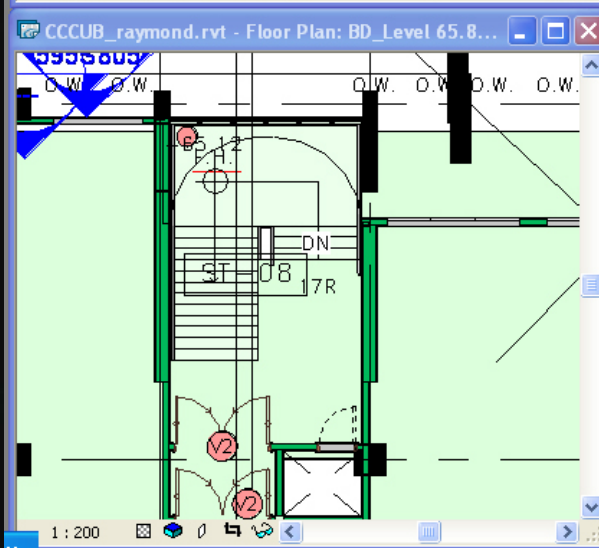
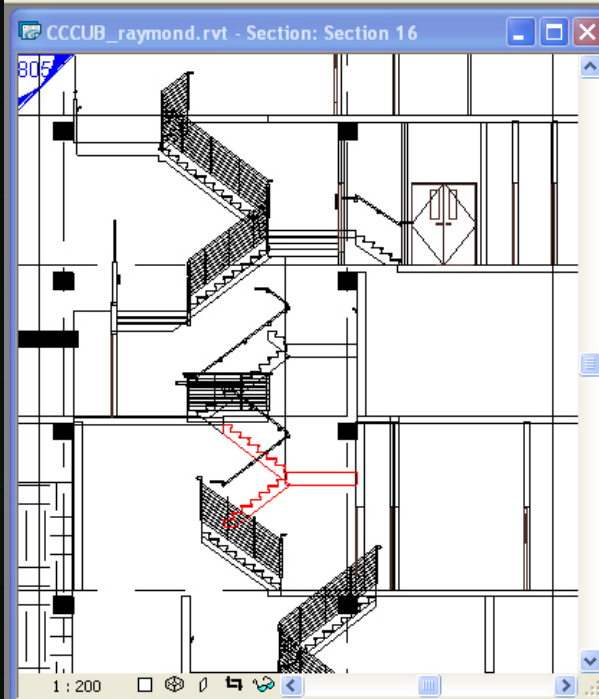




VISUALIZATION



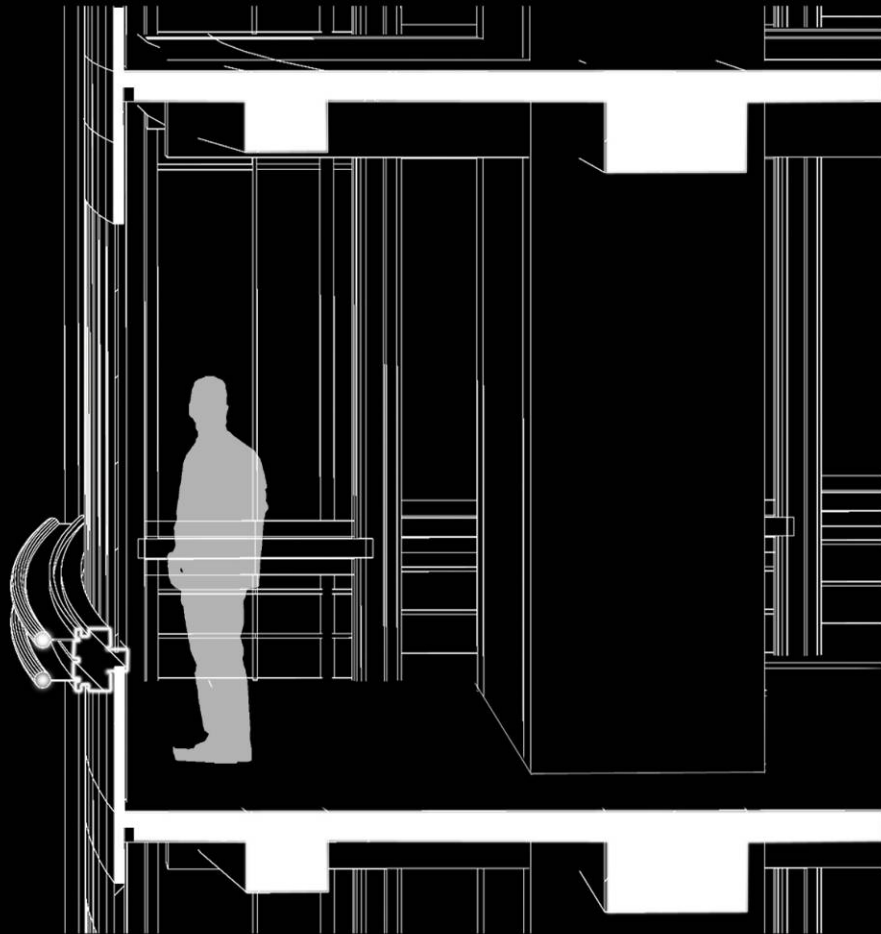
FAÇADE PANEL DESIGN



VERTICAL CO-ORDINATION



FAÇADE DESIGN and CO-ORDINATION

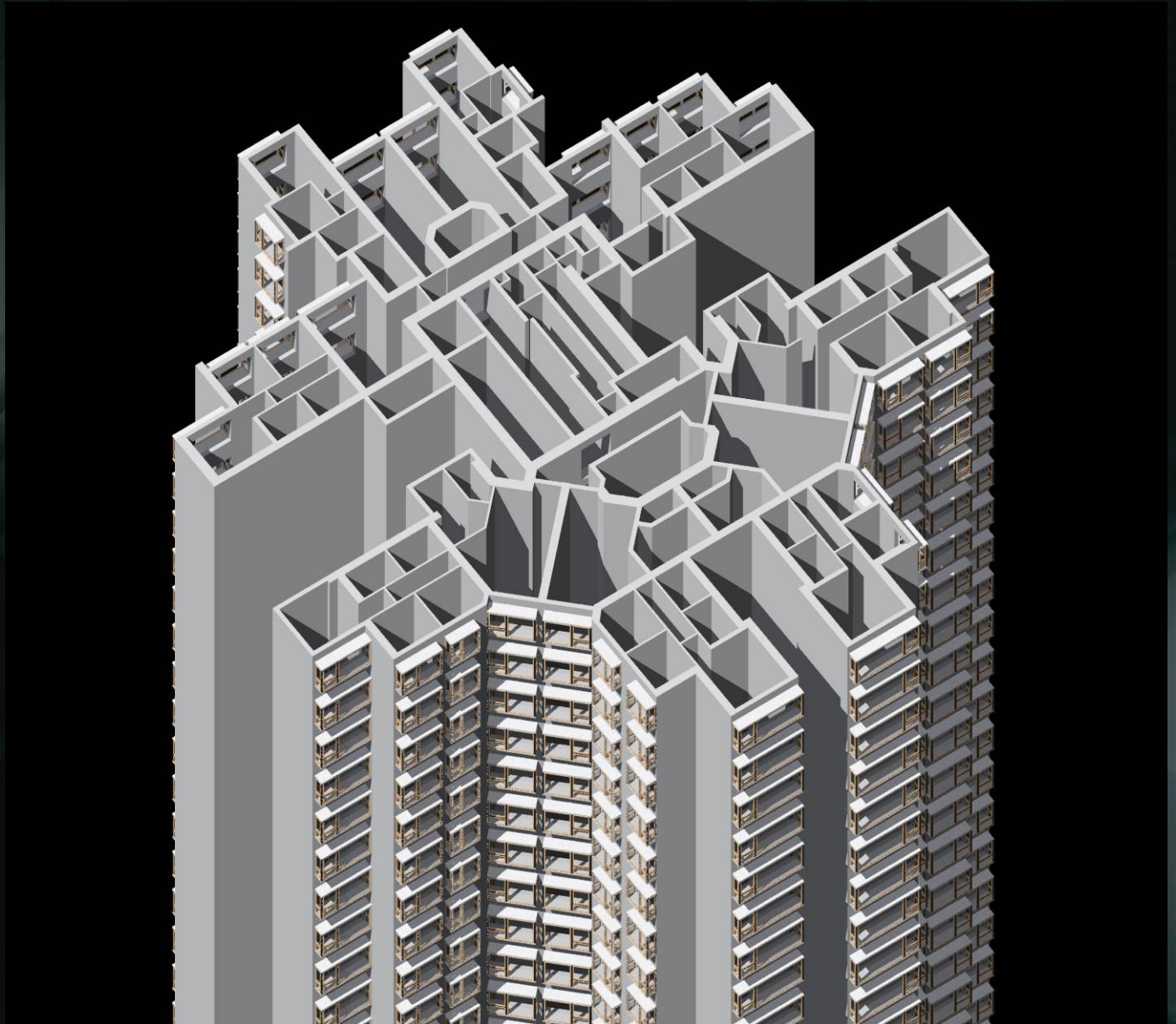


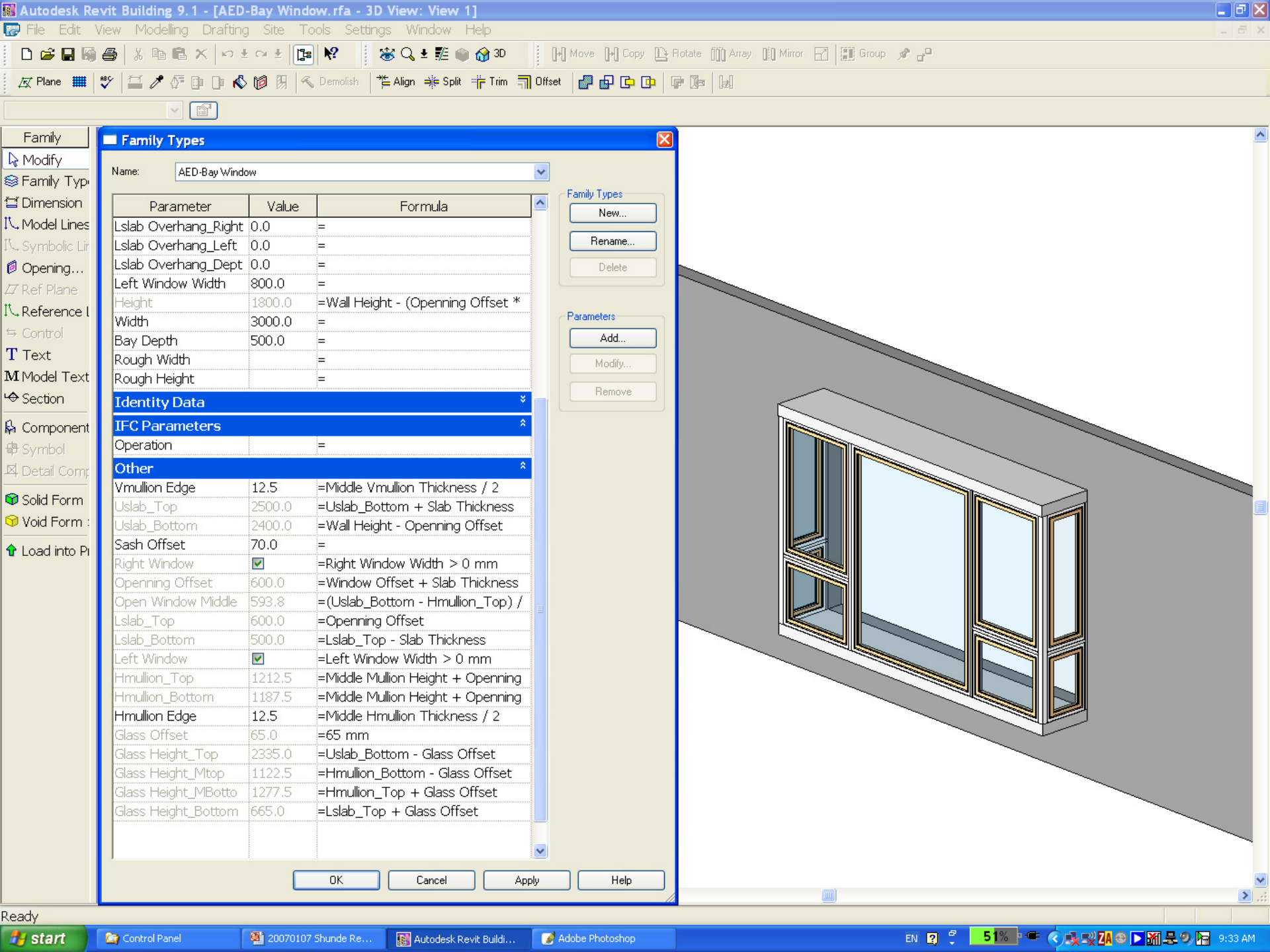
FAÇADE DESIGN and CO-ORDINATION

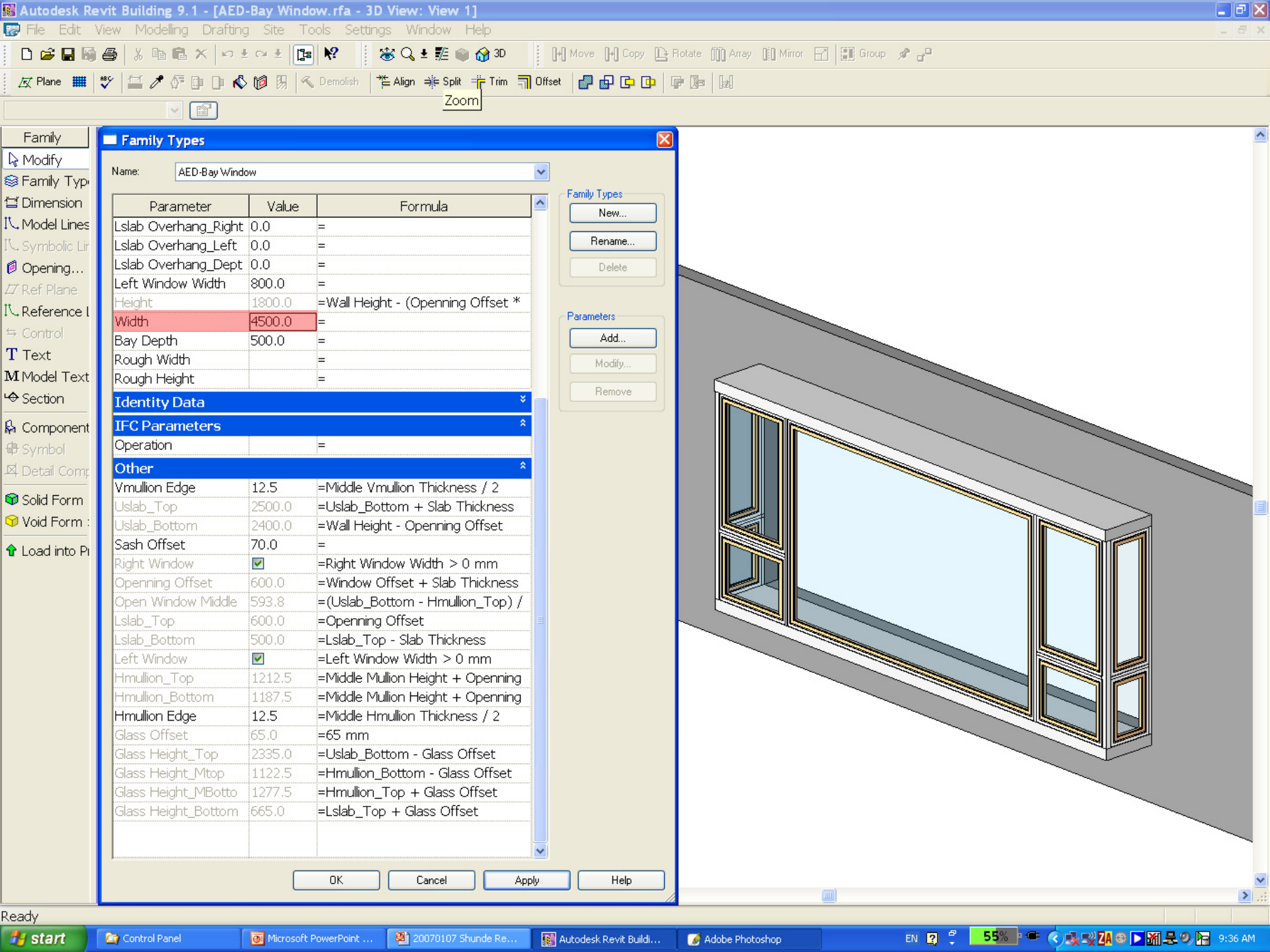


REPETITIONS vs VARIATIONS

PARAMETRIC MODELLING

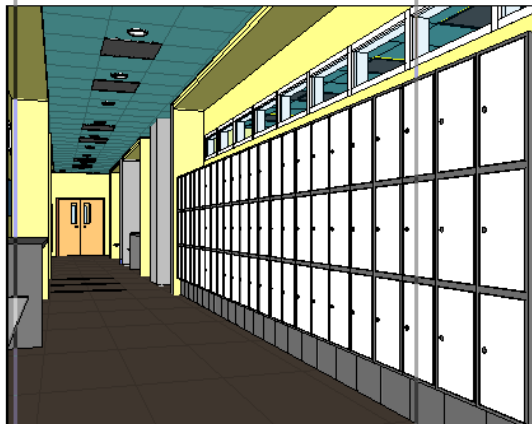




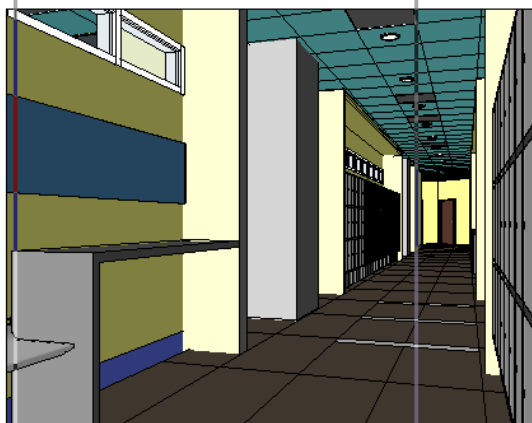


Use of Building Information Modeling (BIM)

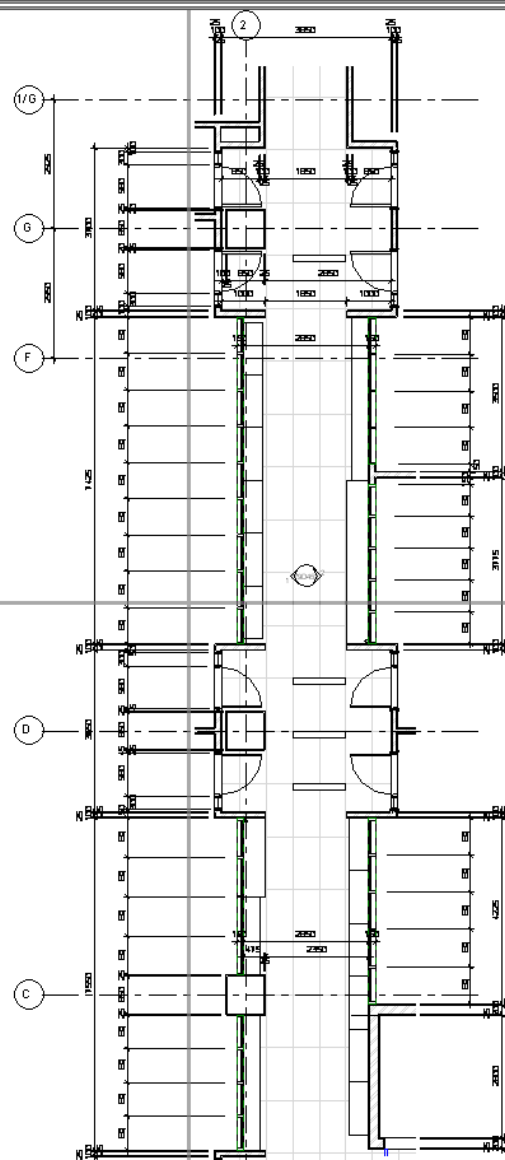
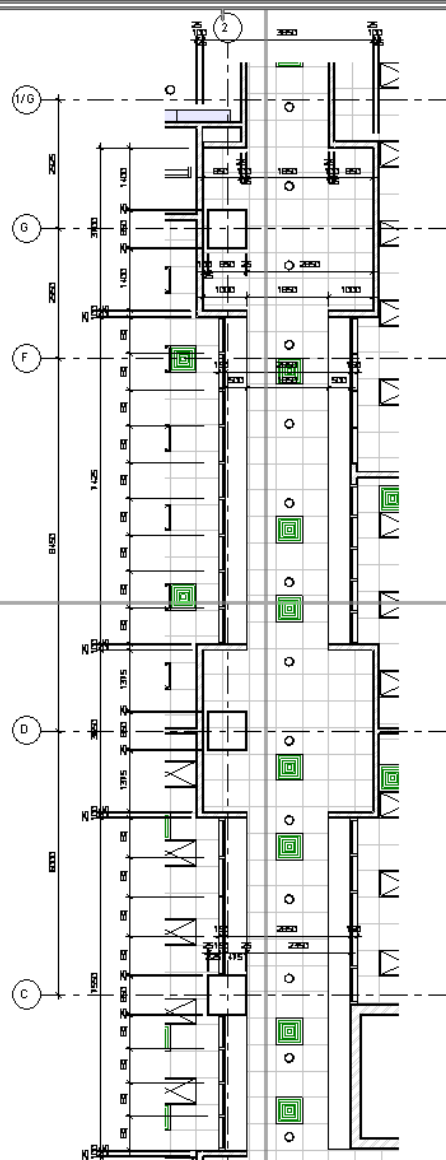
1. Design visualization
- 2. Drawing Productions 図面製作**
3. Services Co-ordination and Clash detection with other disciplines
4. Quantity taking and preparation of Tender Document
5. Automated Statutory Submission
6. Scientific analysis of different environmental aspects
7. Supply Chain Integration with the manufacturing and production
8. Complex Geometry



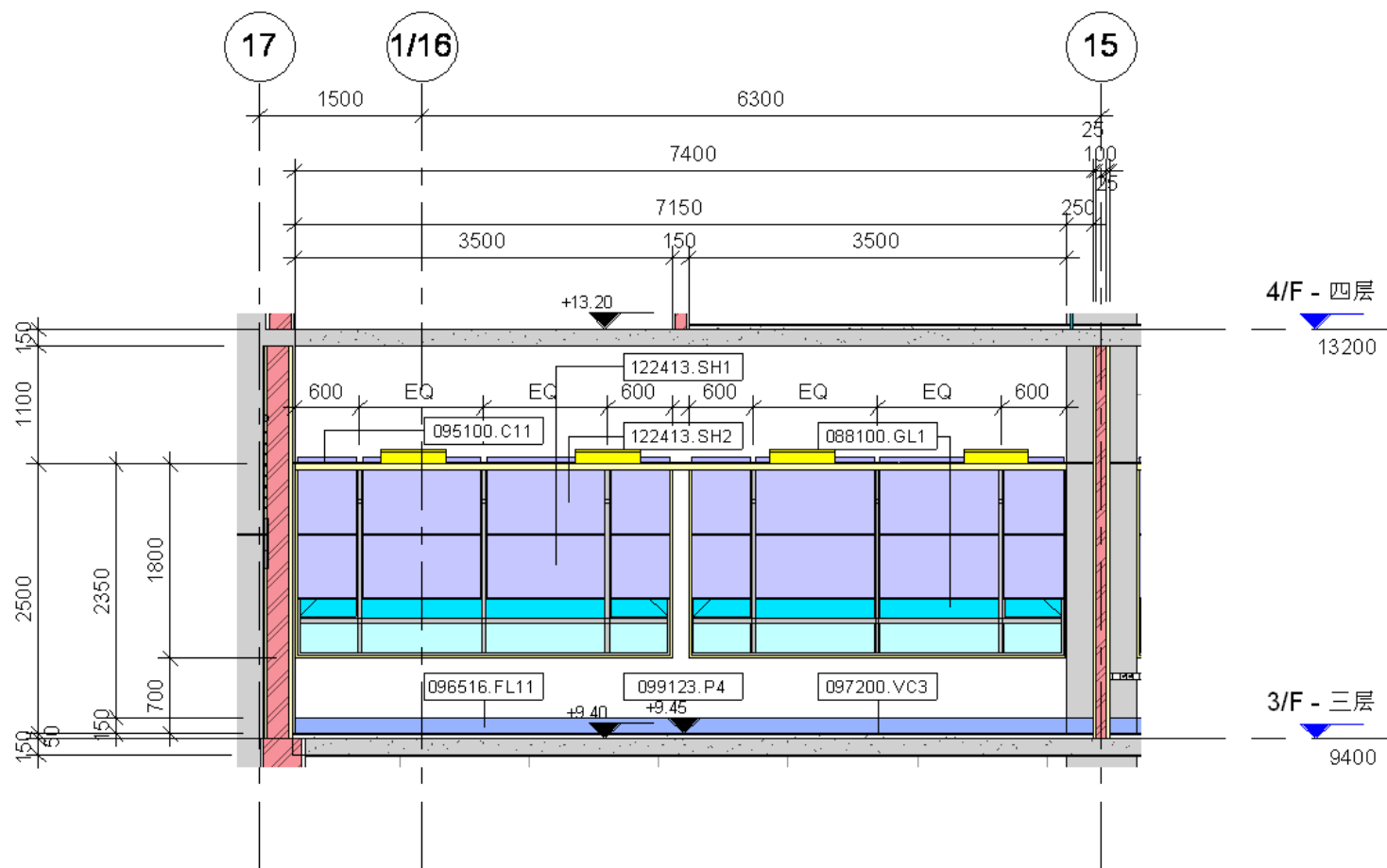
4 走廊立体示意图(低楼三至四层)2



3 走廊立体示意图(低楼三至四层)1



A vertical strip of various logos and brand names, including Aedas, The Hong Kong Polytechnic University, and others.



2

行政人员培训室立面图(高楼三层)6

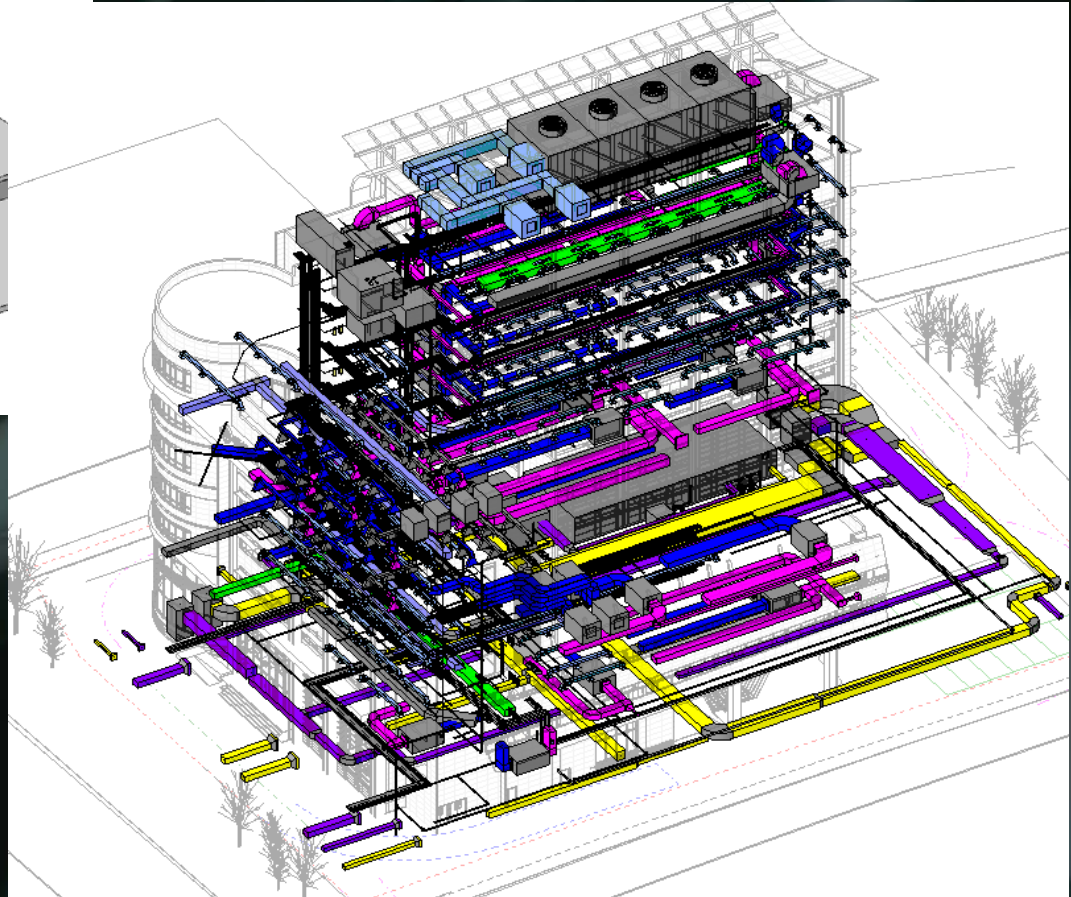
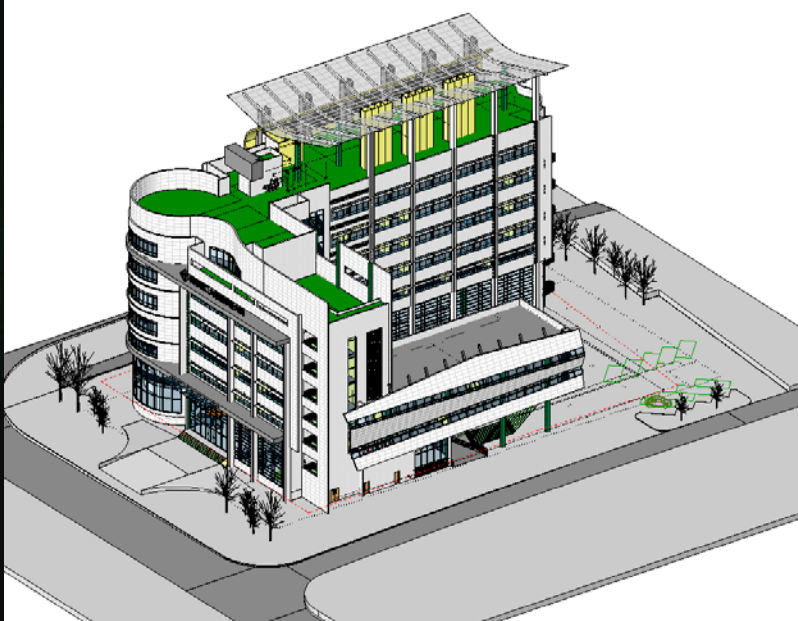
1:50

Use of Building Information Modeling (BIM)

1. Design visualization
2. Drawing Productions
- 3. Services Co-ordination and Clash detection with other disciplines**
多部門との連携と干渉チェック
4. Quantity taking and preparation of Tender Document
5. Automated Statutory Submission
6. Scientific analysis of different environmental aspects
7. Supply Chain Integration with the manufacturing and production
8. Complex Geometry

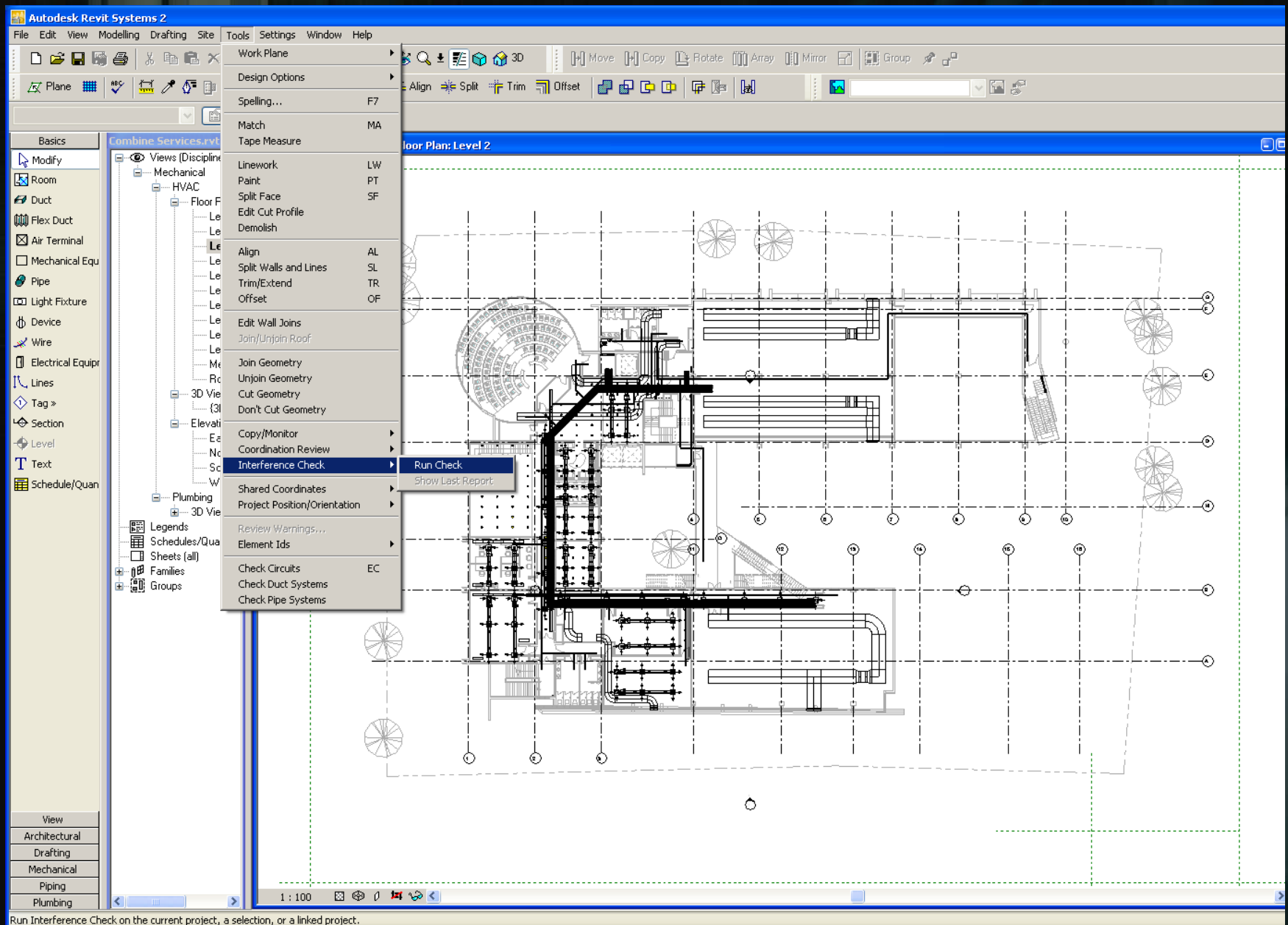
CO-ORDINATION / COLLABORATION

Work Flow – Establish BIM Models



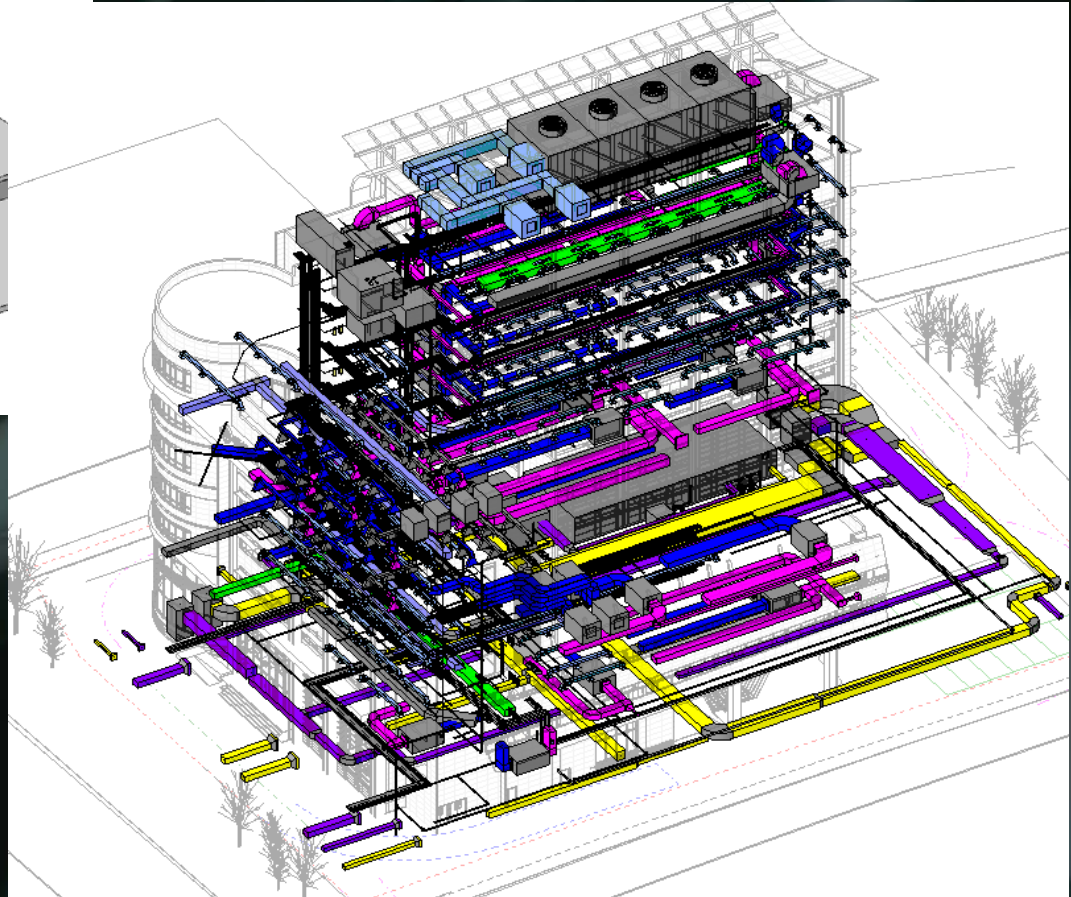
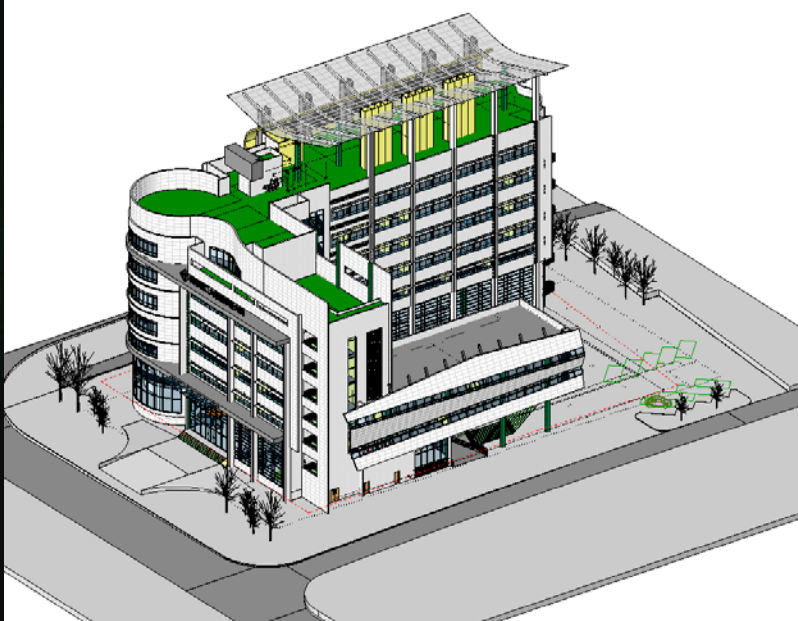


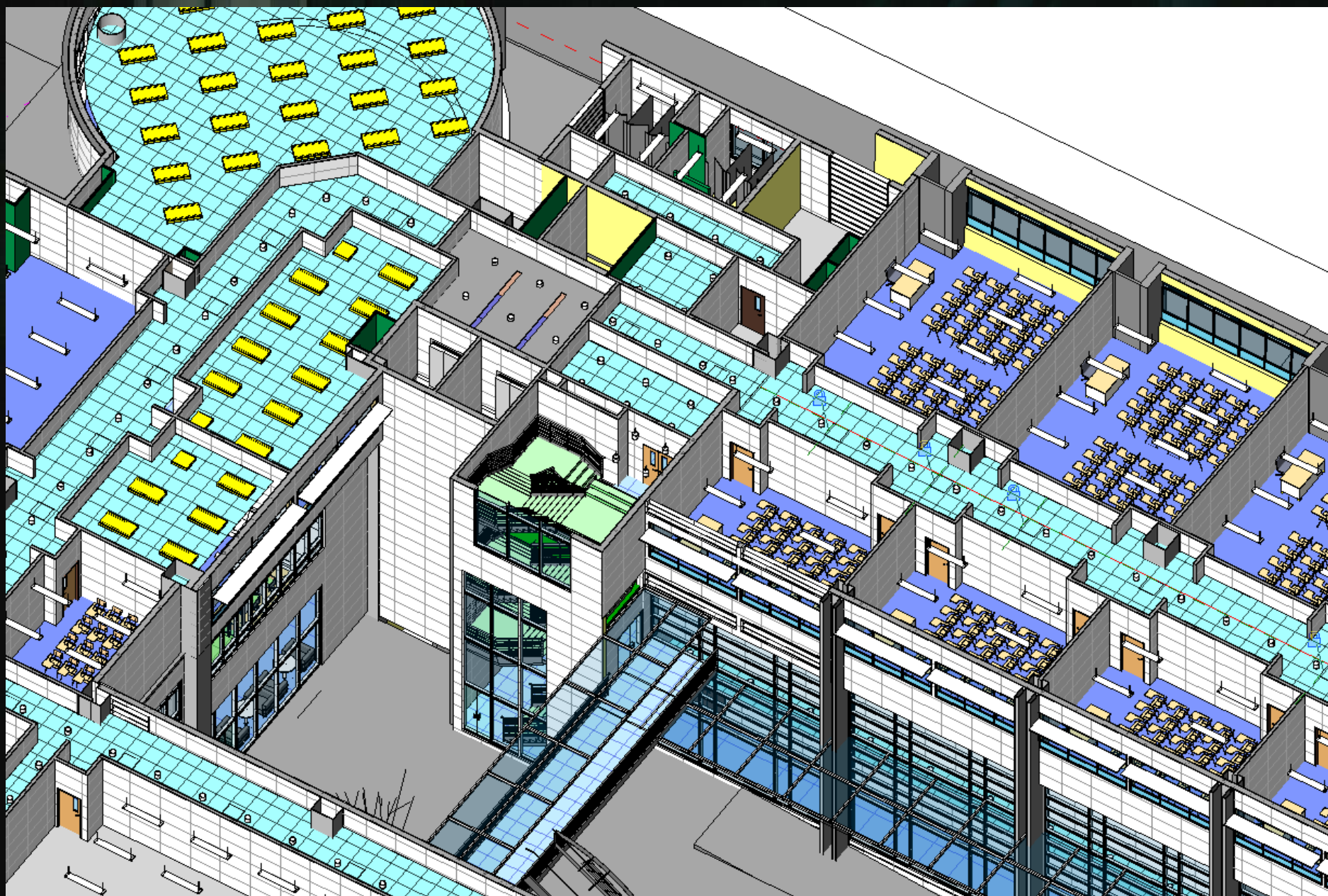
Work Flow – Clashes Report



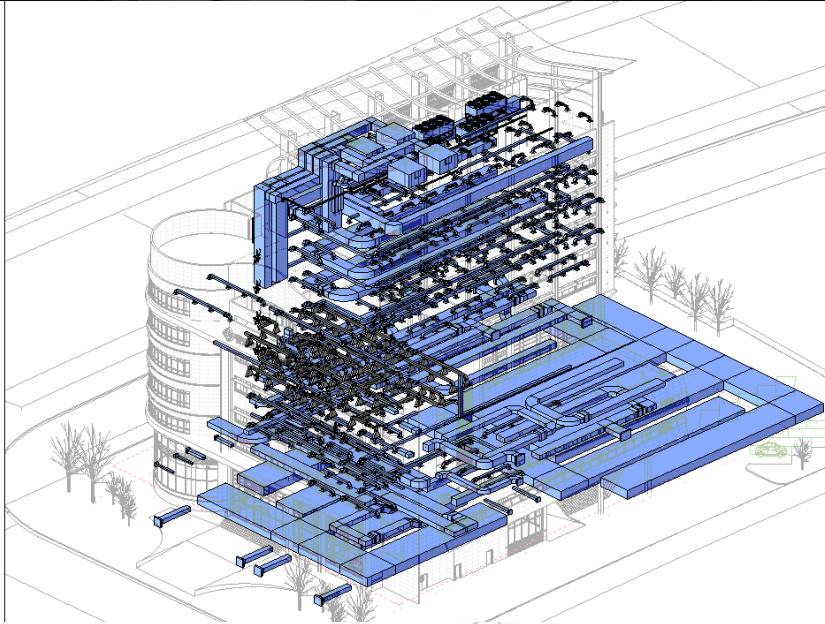
CO-ORDINATION / COLLABORATION

Work Flow – Establish BIM Models

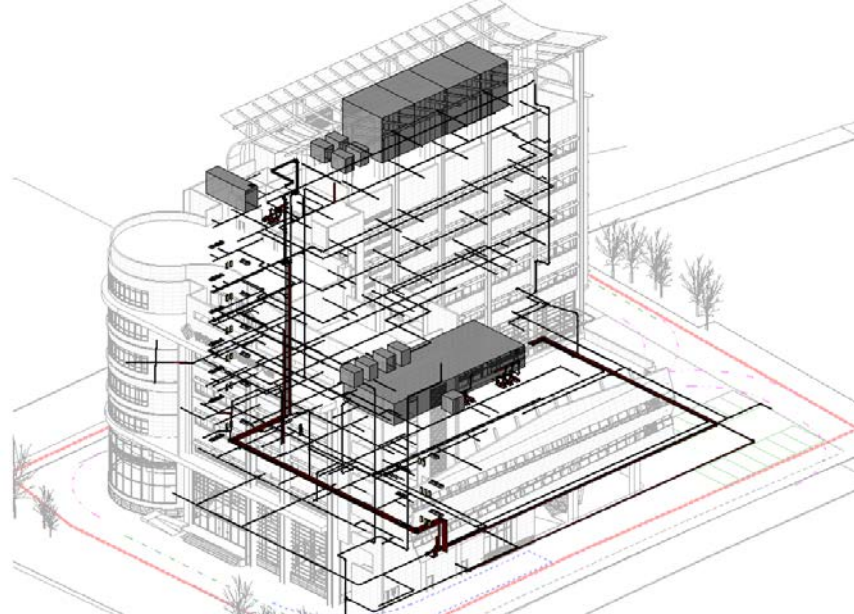
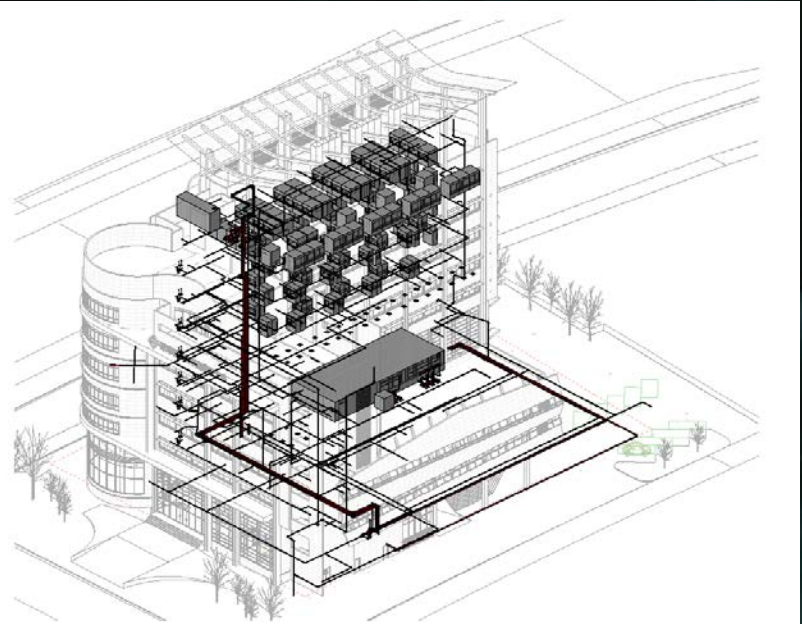




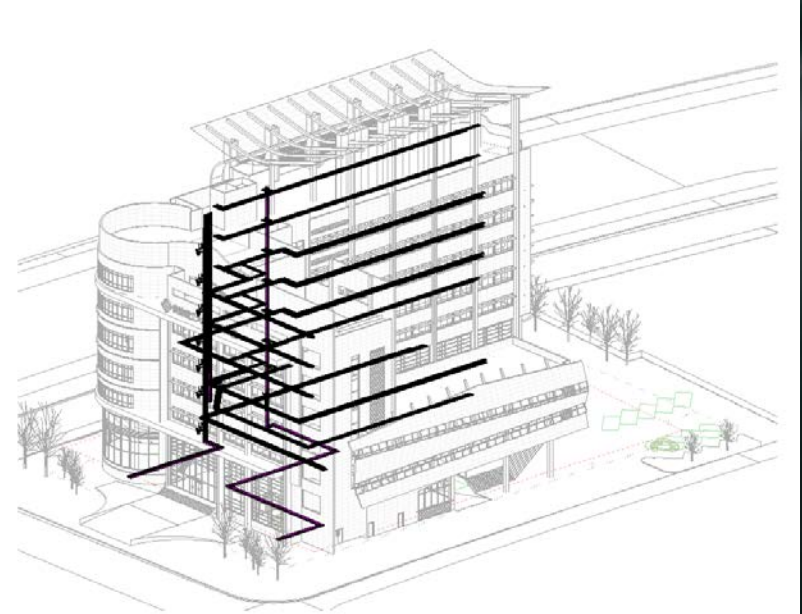
HVAC Installation



Fire Services Installation



P/D Installation



Electricity Installation

Work Flow – Clashes Report

The screenshot displays the Autodesk Revit Systems 2 software interface. The main window shows a 3D view of a mechanical system, specifically a fan coil unit, with various pipes and ducts. A dialog box titled "Interference Report" is open in the foreground. The dialog box has a "Group by:" dropdown set to "Category 1, Category 2". Below this is a list of messages, all of which are "Pipes". The "Created:" field shows "Tuesday, May 29, 2007 6:13:54 PM". The "Last Update:" field is empty. A note at the bottom of the dialog box states: "Note: Refresh updates interferences listed above." The dialog box has buttons for "Show", "Export...", "Refresh", and "Close".

Autodesk Revit Systems 2

File Edit View Modeling Drafting Site Tools Settings Window Help

Plane ☒ Press + Drag ☐ Editable Only

PolyU Shenzhen Campus AC_andy.rvt - 3D View: {3D}

Interference Report

Group by: Category 1, Category 2

Message

- Pipes
- Pipes
- Pipes
- Pipes
- Pipes
- Pipes
- Pipes
- Pipes
- Pipes
- Pipes
- Pipes
- Pipes
- Pipes

Created: Tuesday, May 29, 2007 6:13:54 PM

Last Update:

Note: Refresh updates interferences listed above.

Show Export... Refresh Close

Duct Schedule
Pipe Schedule
Room Schedule
Wall Schedule

Sheets (all)

- E&M-1 - Baseme
- E&M-2 - Level 1.
- E&M-3 - Level 2.
- E&M-4 - Level 3.
- E&M-5 - Level 4.
- E&M-6 - Level 5.
- E&M-7 - Level 6.
- E&M-8 - Level 7.
- E&M-9 - Level 8.
- E&M-10 - ROOF
- E&M-11 - A/C Se

Families

- Air Terminals
- Annotation Symb
- Ceilings
 - Basic Ceilin
 - Generic
 - Plaster E

View

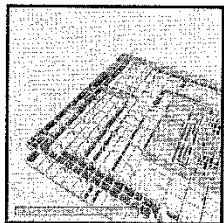
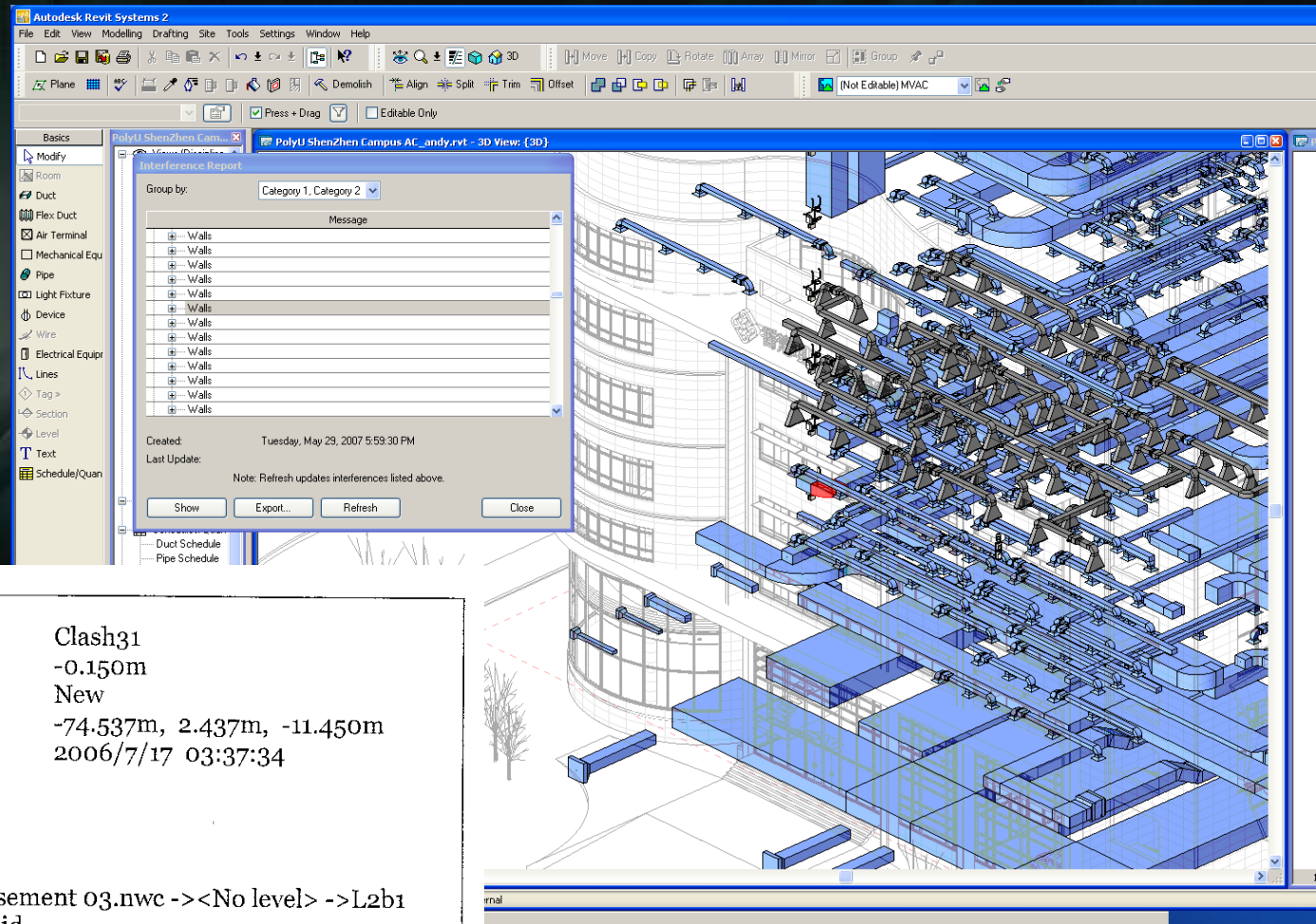
Architectural
Drafting
Mechanical
Piping
Plumbing

1 : 150

MVAC : Mechanical Equipment : M_Fan Coil Unit - Horizontal Basic Concealed with Plenum : M_02

Page 4 Sec 1 4/4 At 3.1cm Ln 2 Col 2 REC TRK EXT OVR English (U.S)

Work Flow – Clashes Report



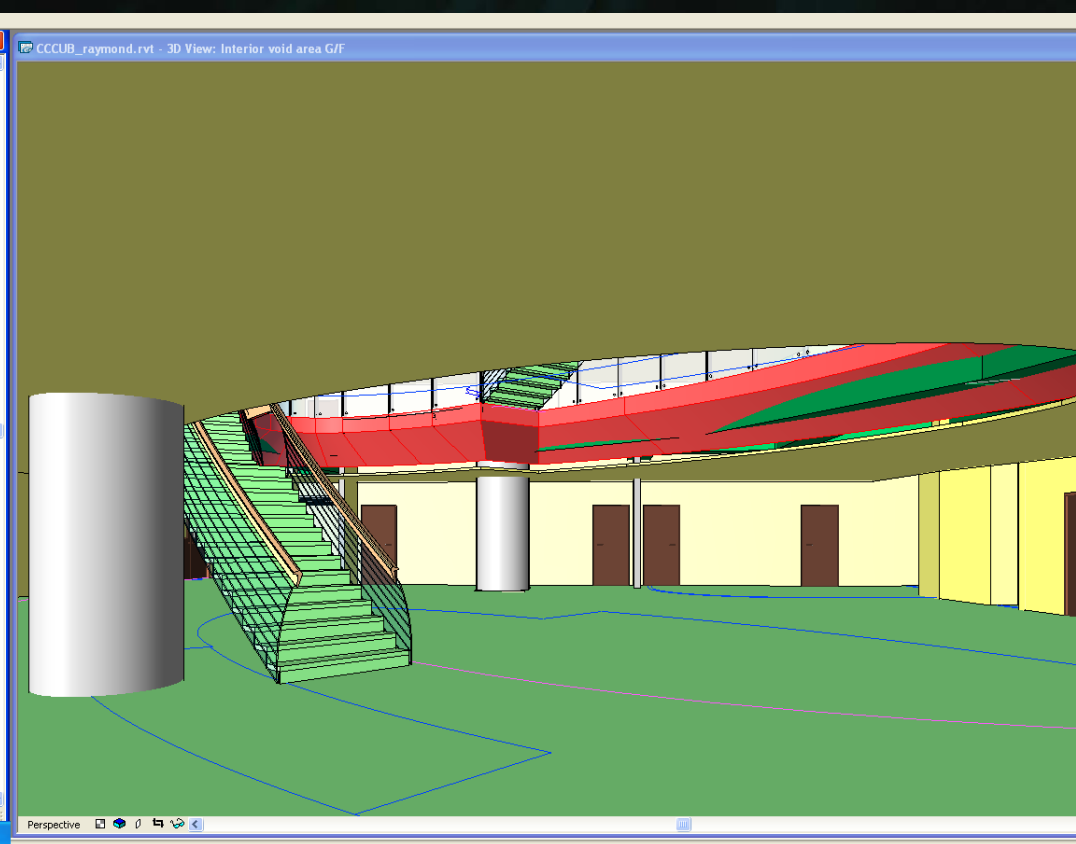
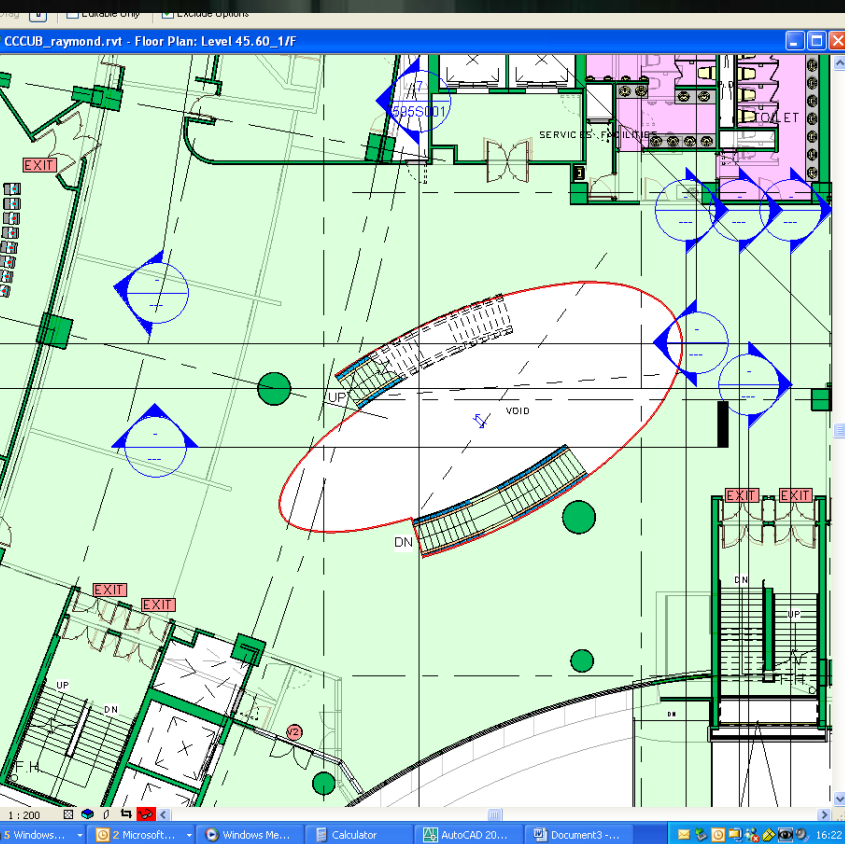
Name Clash31
 Distance -0.150m
 Status New
 Clash Point -74.537m, 2.437m, -11.450m
 Date Created 2006/7/17 03:37:34
 Approved By

Item 1

Path File ->File ->Basement 03.nwc -><No level> ->L2b1
 500 x 700 ->L2b1 500 x 700 ->Solid

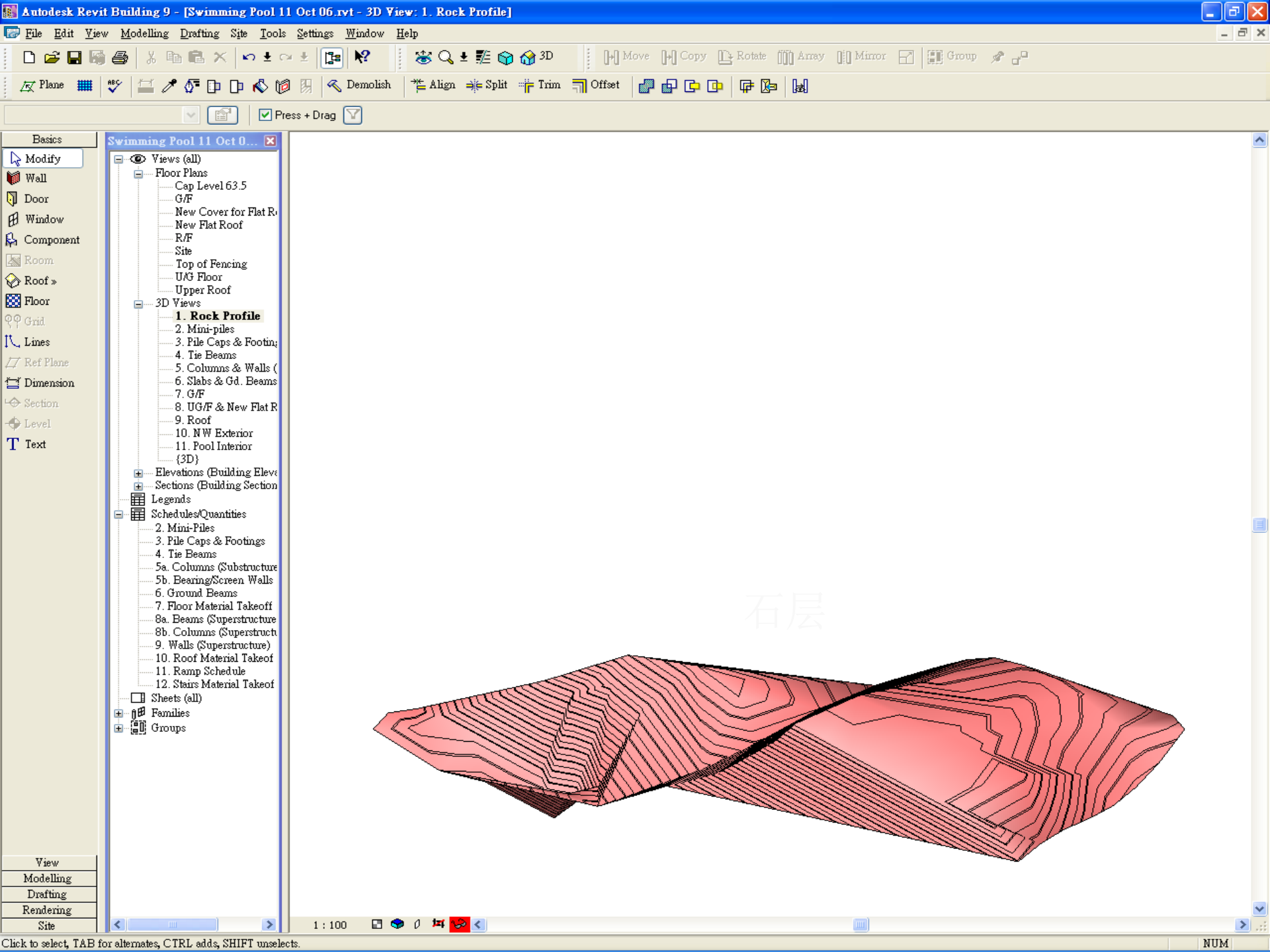
Item 2

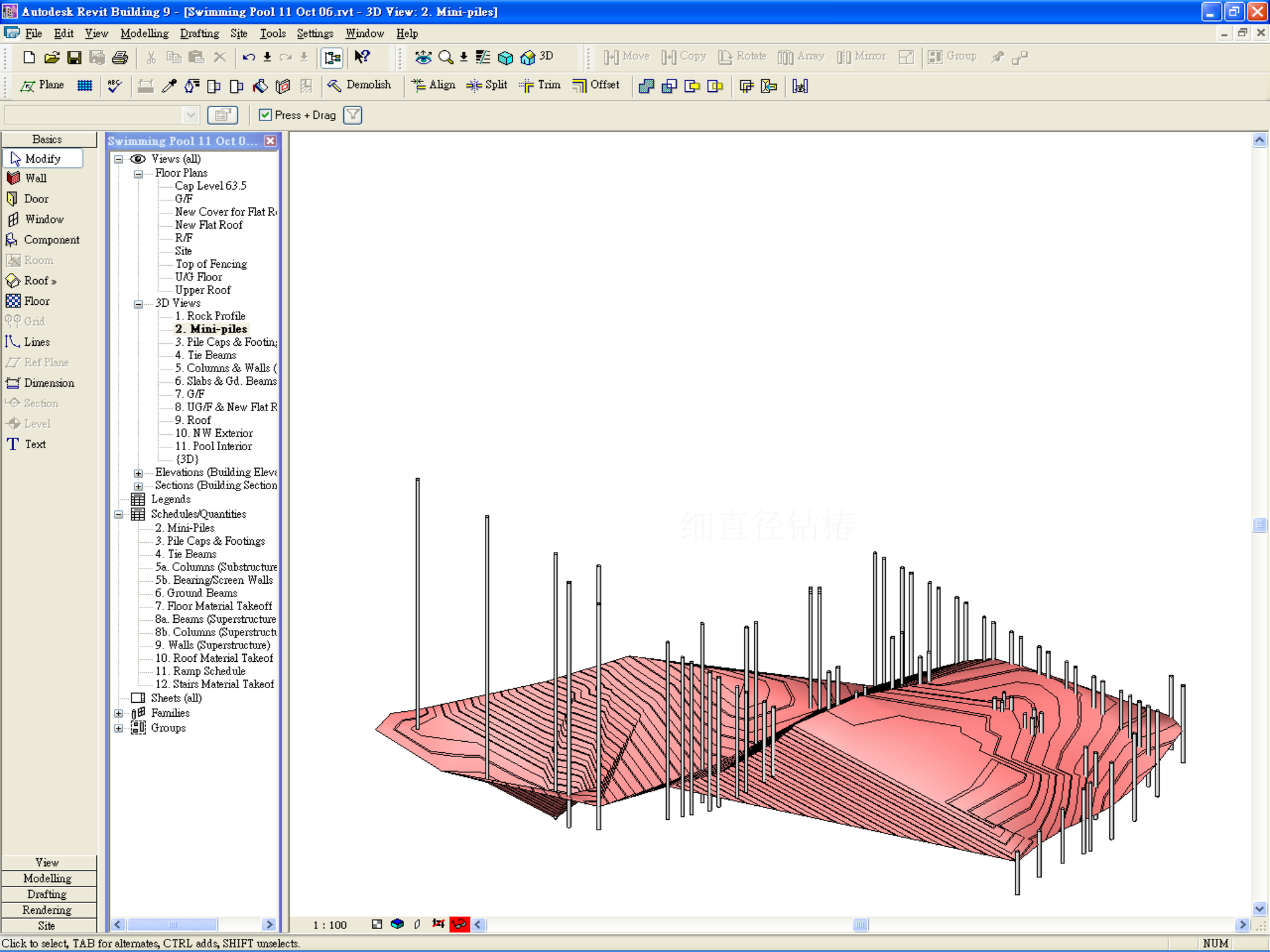
Entity Handle 2AD6
 Path File ->File ->B3HVAC_Duct.nwd ->H-Ductwork-G -
 >Duct

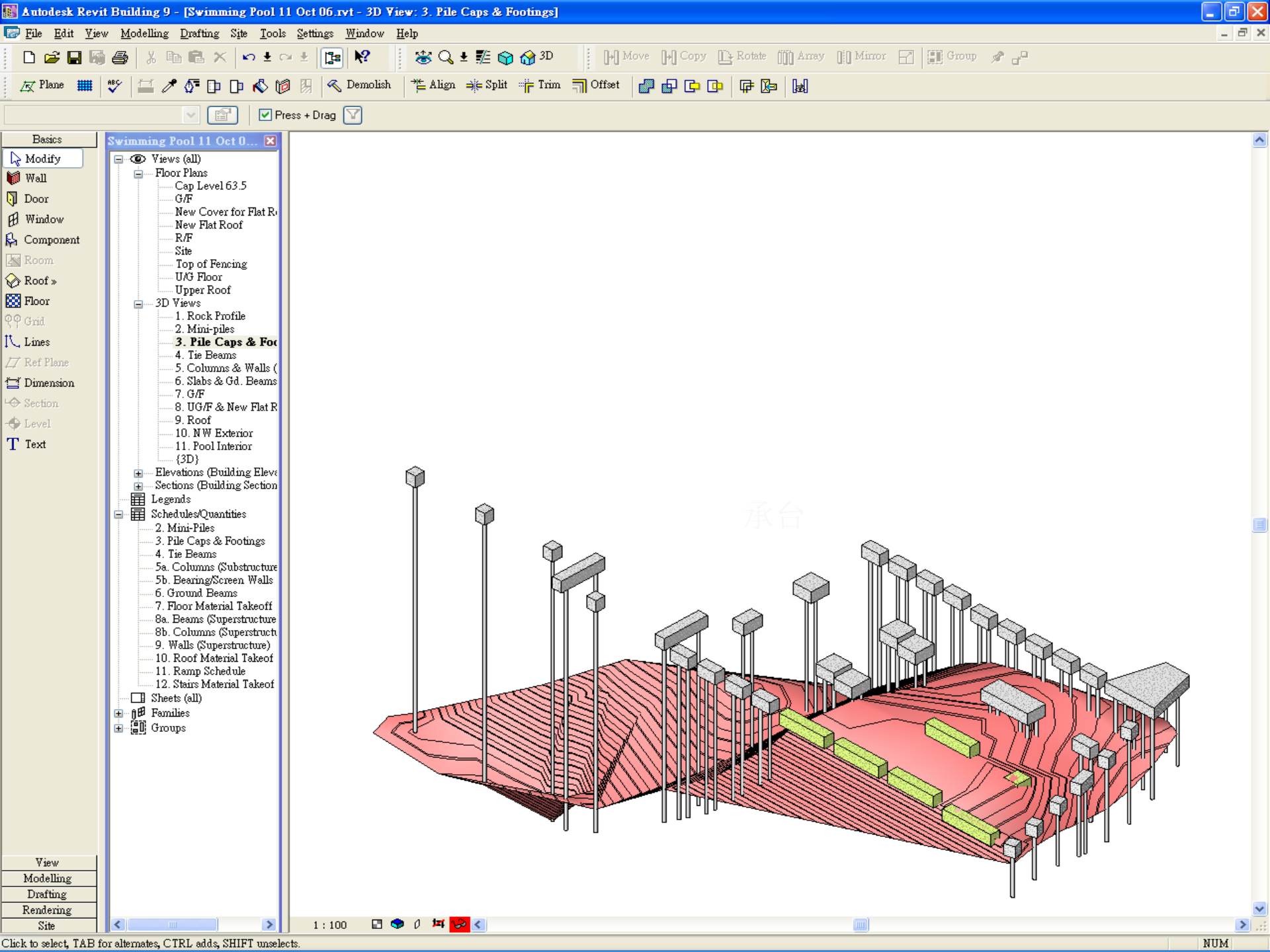


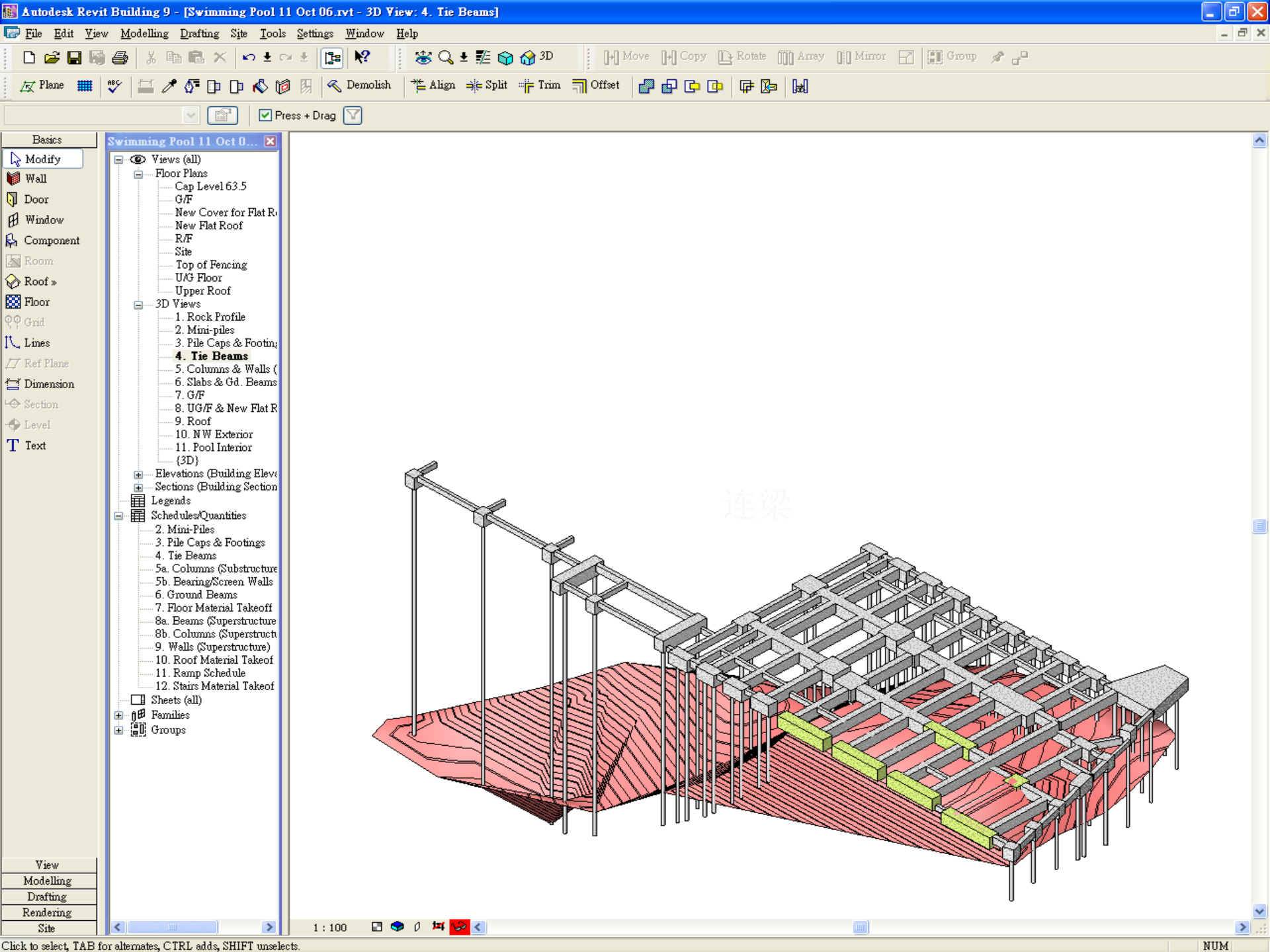
Use of Building Information Modeling (BIM)

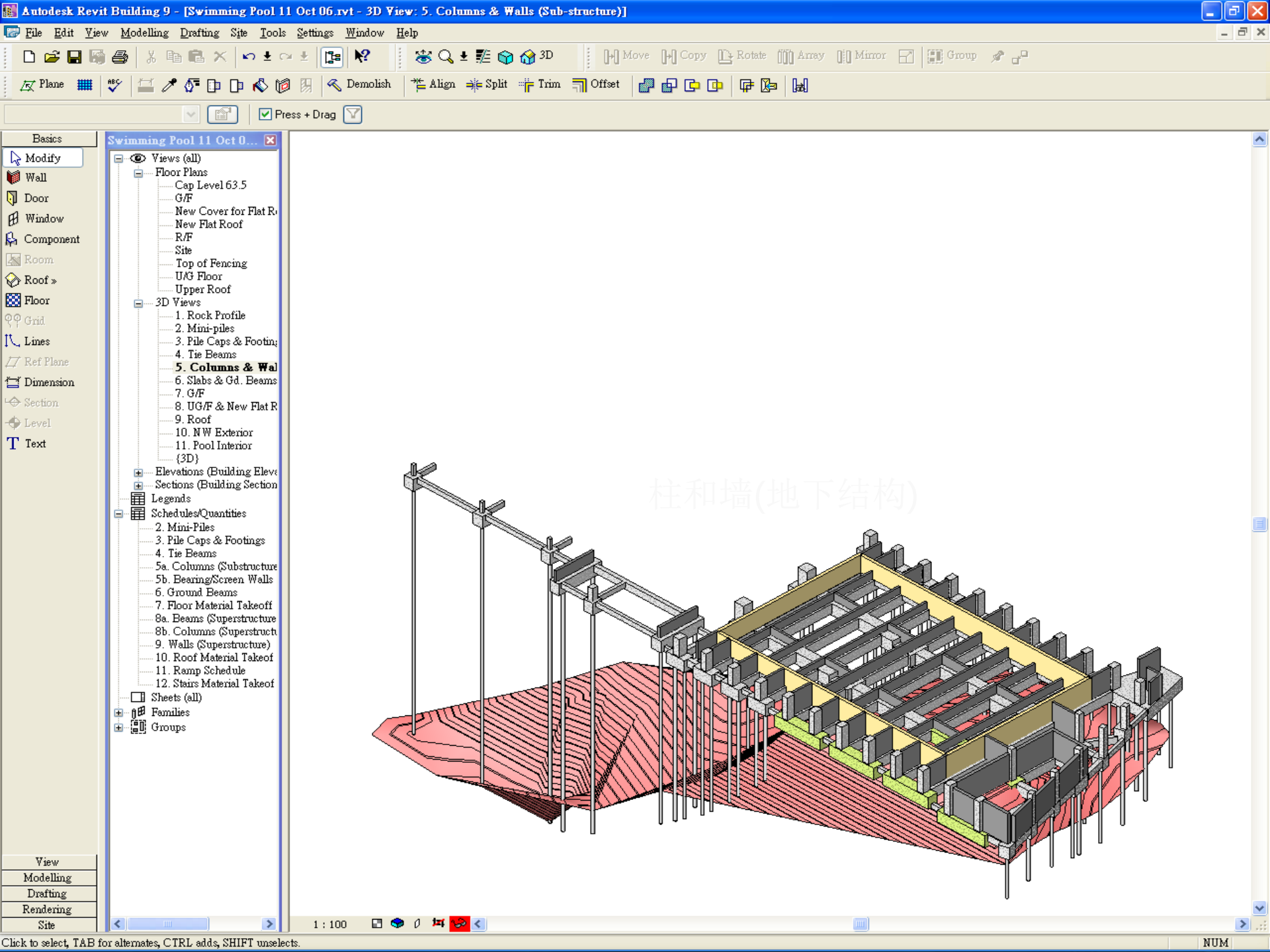
1. Design visualization
2. Drawing Productions
3. Services Co-ordination and Clash detection with other disciplines
4. **Quantity taking and preparation of Tender Document** 数量拾い及び入札書類の作成
5. Automated Statutory Submission
6. Scientific analysis of different environmental aspects
7. Supply Chain Integration with the manufacturing and production
8. Complex Geometry

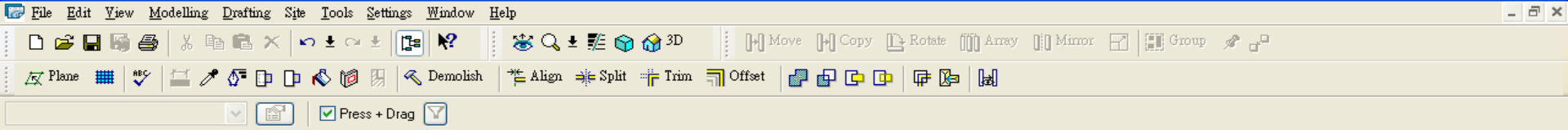












Basics

Modify

Wall

Door

Window

Component

Room

Roof

Floor

Grid

Lines

Ref Plane

Dimension

Section

Level

Text

View

Modelling

Drafting

Rendering

Site

Swimming Pool 11 Oct 06.rvt

Views (all)

Floor Plans

Cap Level 63.5

G/F

New Cover for Flat R

New Flat Roof

R/F

Site

Top of Fencing

UG Floor

Upper Roof

3D Views

1. Rock Profile

2. Mini-piles

3. Pile Caps & Footings

4. Tie Beams

5. Columns & Walls (

6. Slabs & Gd. Be

7. G/F

8. UG/F & New Flat R

9. Roof

10. NW Exterior

11. Pool Interior

(3D)

Elevations (Building Elev

Sections (Building Section

Legends

Schedules/Quantities

2. Mini-Piles

3. Pile Caps & Footings

4. Tie Beams

5a. Columns (Substructure

5b. Bearing/Screen Walls

6. Ground Beams

7. Floor Material Takeoff

8a. Beams (Superstructure

8b. Columns (Superstruct

9. Walls (Superstructure)

10. Roof Material Takeof

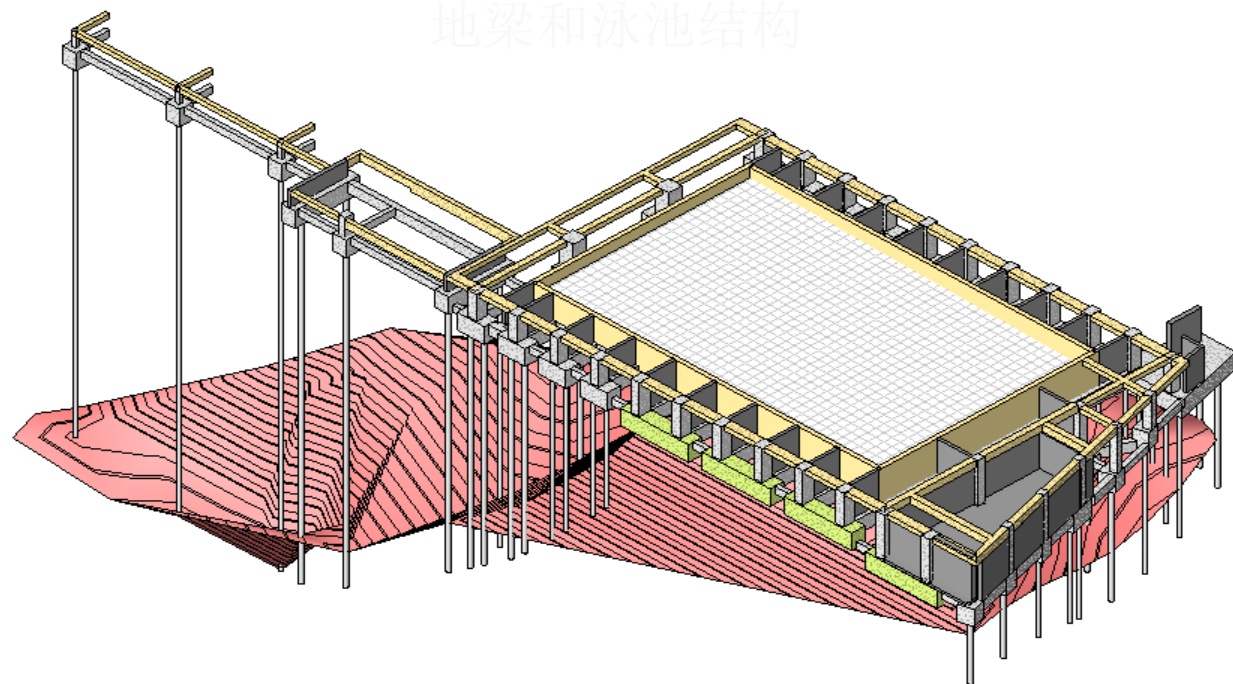
11. Ramp Schedule

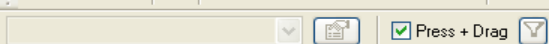
12. Stairs Material Takeof

Sheets (all)

Families

Groups





Basics

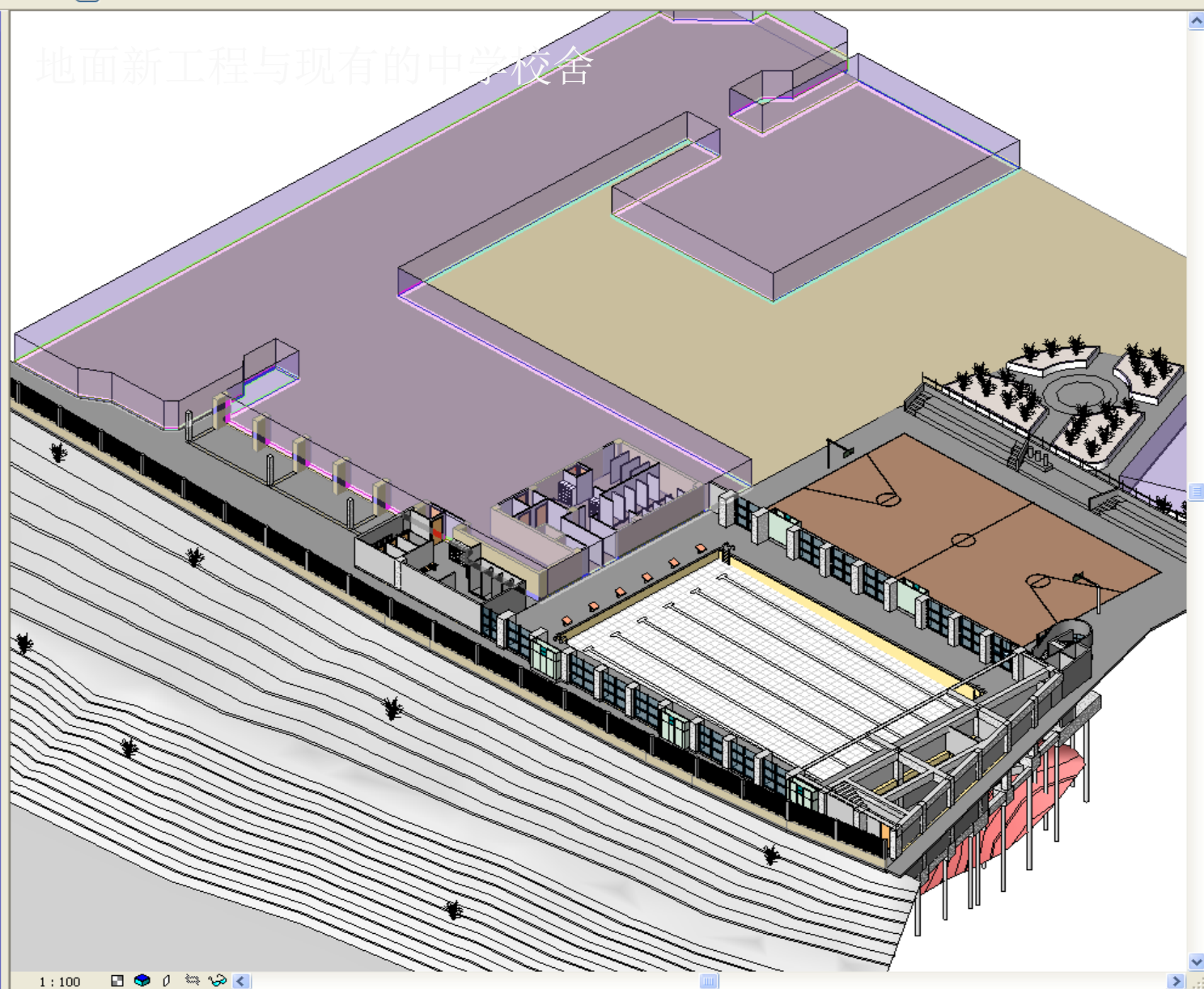
- Modify
- Wall
- Door
- Window
- Component
- Room
- Roof
- Floor
- Grid
- Lines
- Ref Plane
- Dimension
- Section
- Level
- Text

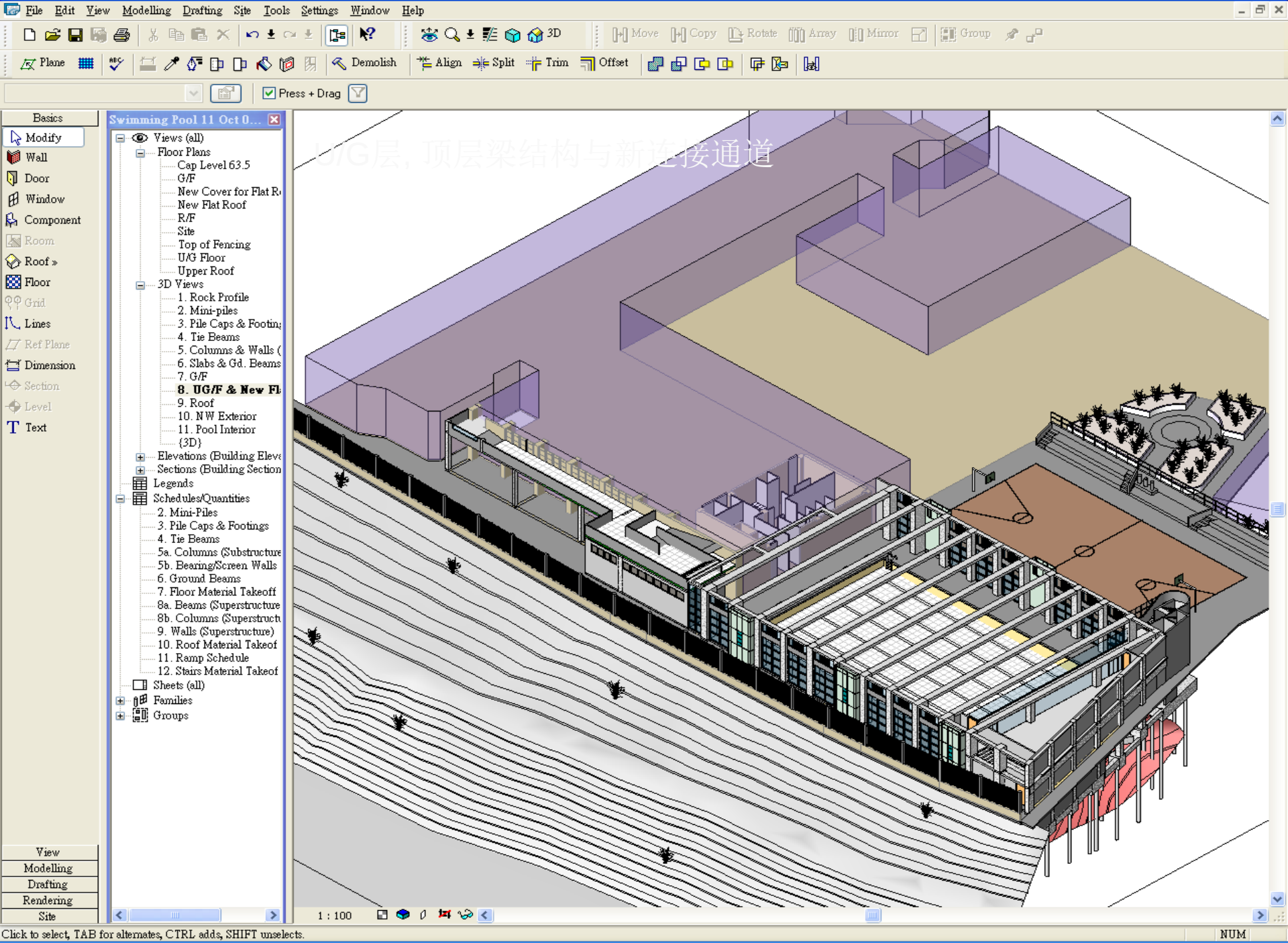
Swimming Pool 11 Oct 06.rvt - 3D View: 7. G/F

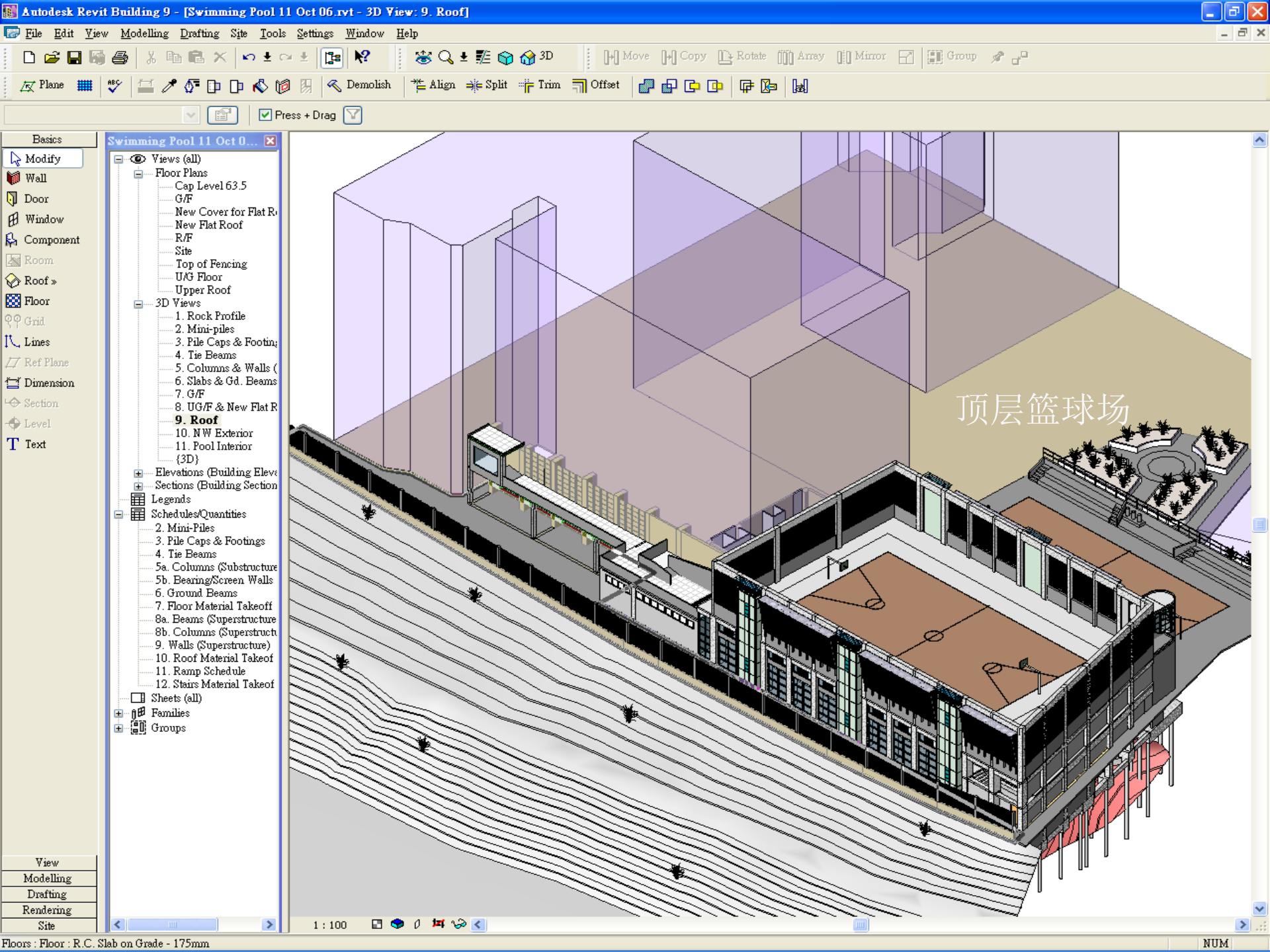
- Views (all)
 - Floor Plans
 - Cap Level 63.5
 - G/F
 - New Cover for Flat R
 - New Flat Roof
 - R/F
 - Site
 - Top of Fencing
 - UG Floor
 - Upper Roof
 - 3D Views
 - 1. Rock Profile
 - 2. Mini-piles
 - 3. Pile Caps & Footings
 - 4. Tie Beams
 - 5. Columns & Walls (
 - 6. Slabs & Gd. Beams
 - 7. G/F**
 - 8. UG/F & New Flat R
 - 9. Roof
 - 10. NW Exterior
 - 11. Pool Interior (3D)
 - Elevations (Building Elev
 - Sections (Building Section
 - Legends
 - Schedules/Quantities
 - 2. Mini-Piles
 - 3. Pile Caps & Footings
 - 4. Tie Beams
 - 5a. Columns (Substructure
 - 5b. Bearing/Screen Walls
 - 6. Ground Beams
 - 7. Floor Material Takeoff
 - 8a. Beams (Superstructure
 - 8b. Columns (Superstruct
 - 9. Walls (Superstructure)
 - 10. Roof Material Takeof
 - 11. Ramp Schedule
 - 12. Stairs Material Takeof
 - Sheets (all)
 - Families
 - Groups

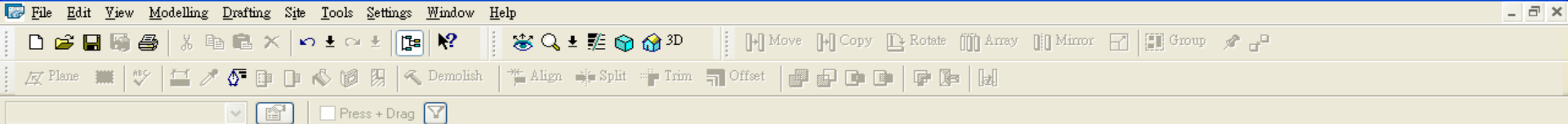
View

- Modelling
- Drafting
- Rendering
- Site









Basics

Modify

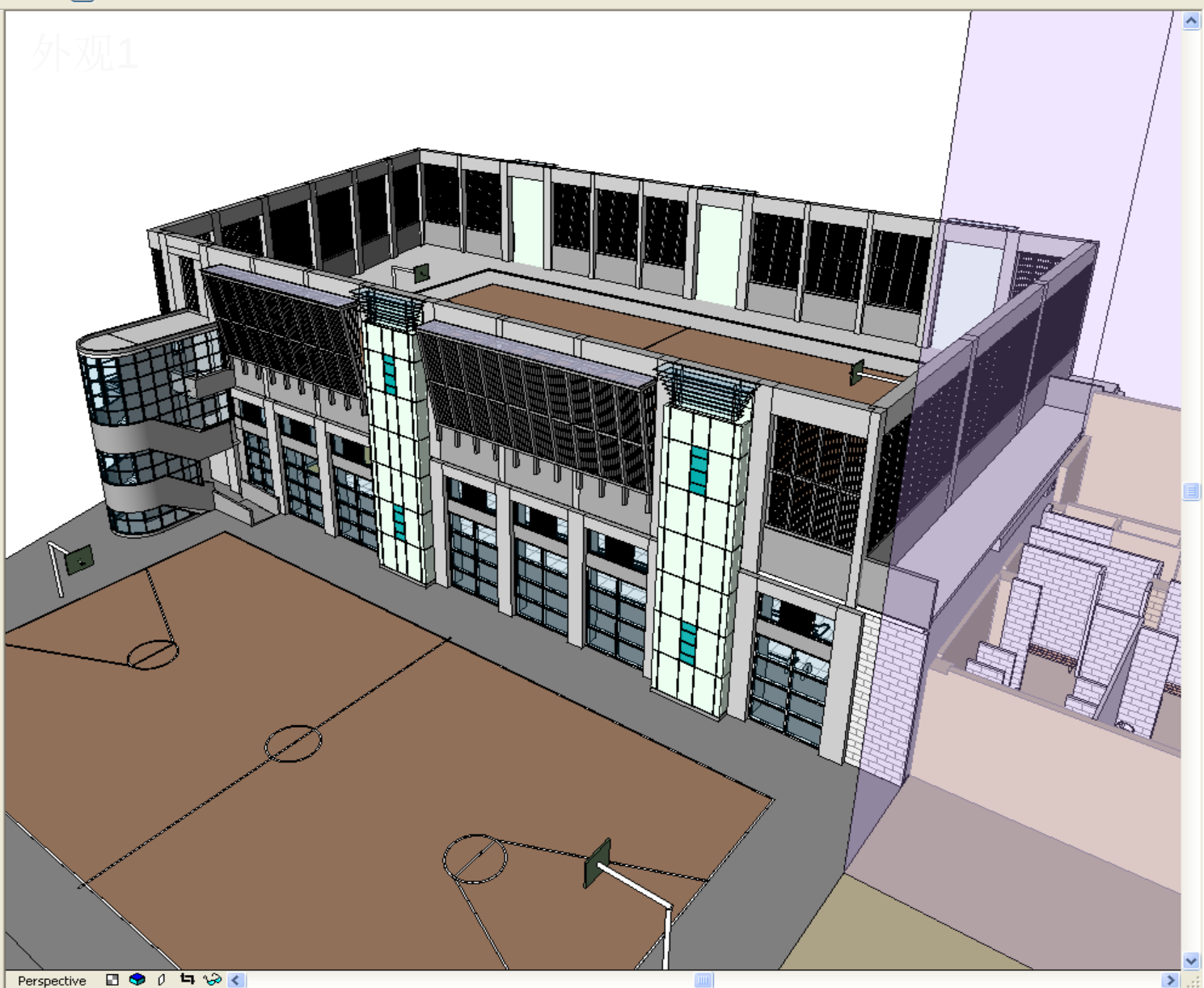
- Wall
- Door
- Window
- Component
- Room
- Roof
- Floor
- Grid
- Lines
- Ref Plane
- Dimension
- Section
- Level
- Text

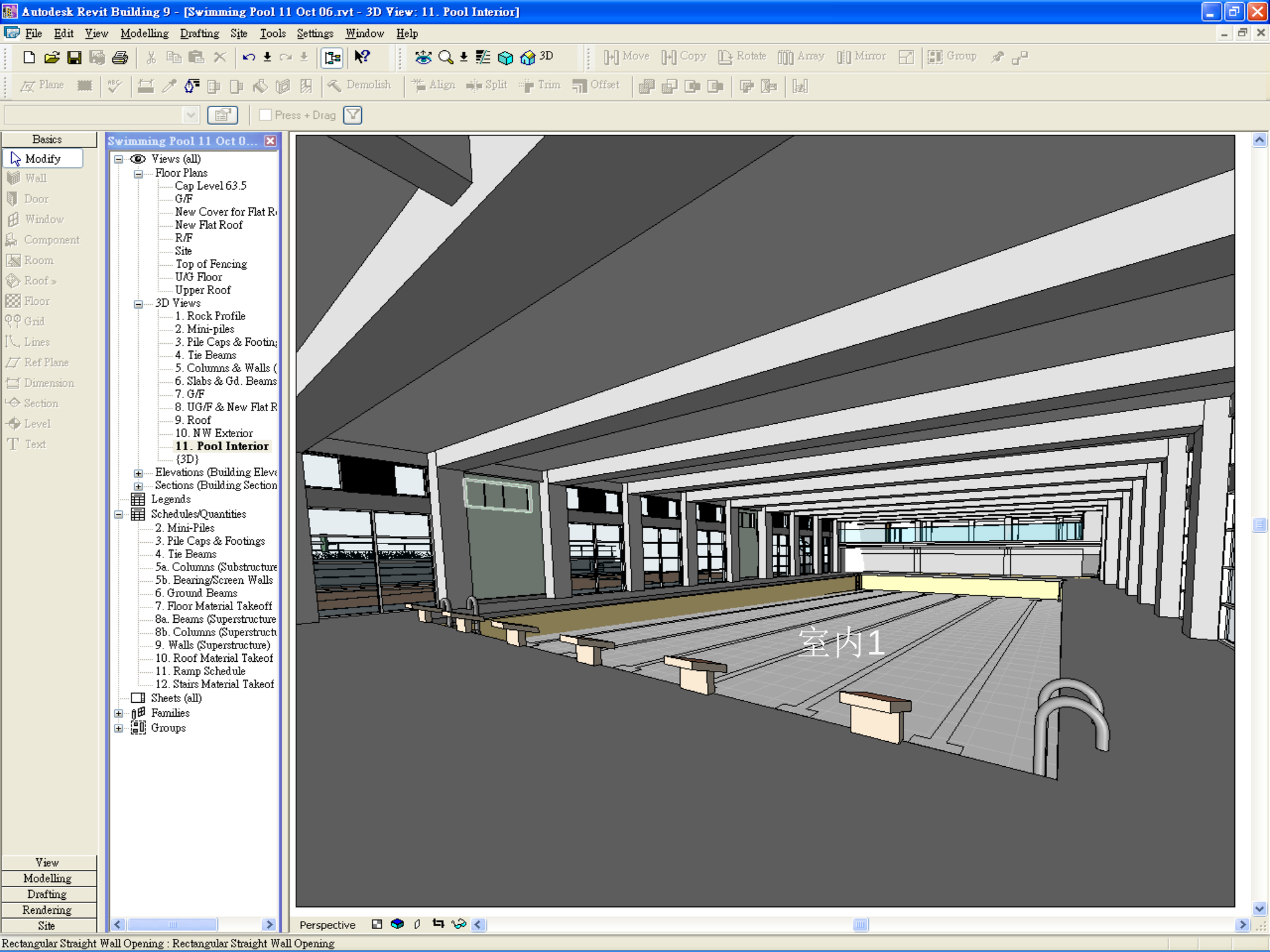
Swimming Pool 11 Oct 06.rvt - 3D View: 10. NW Exterior

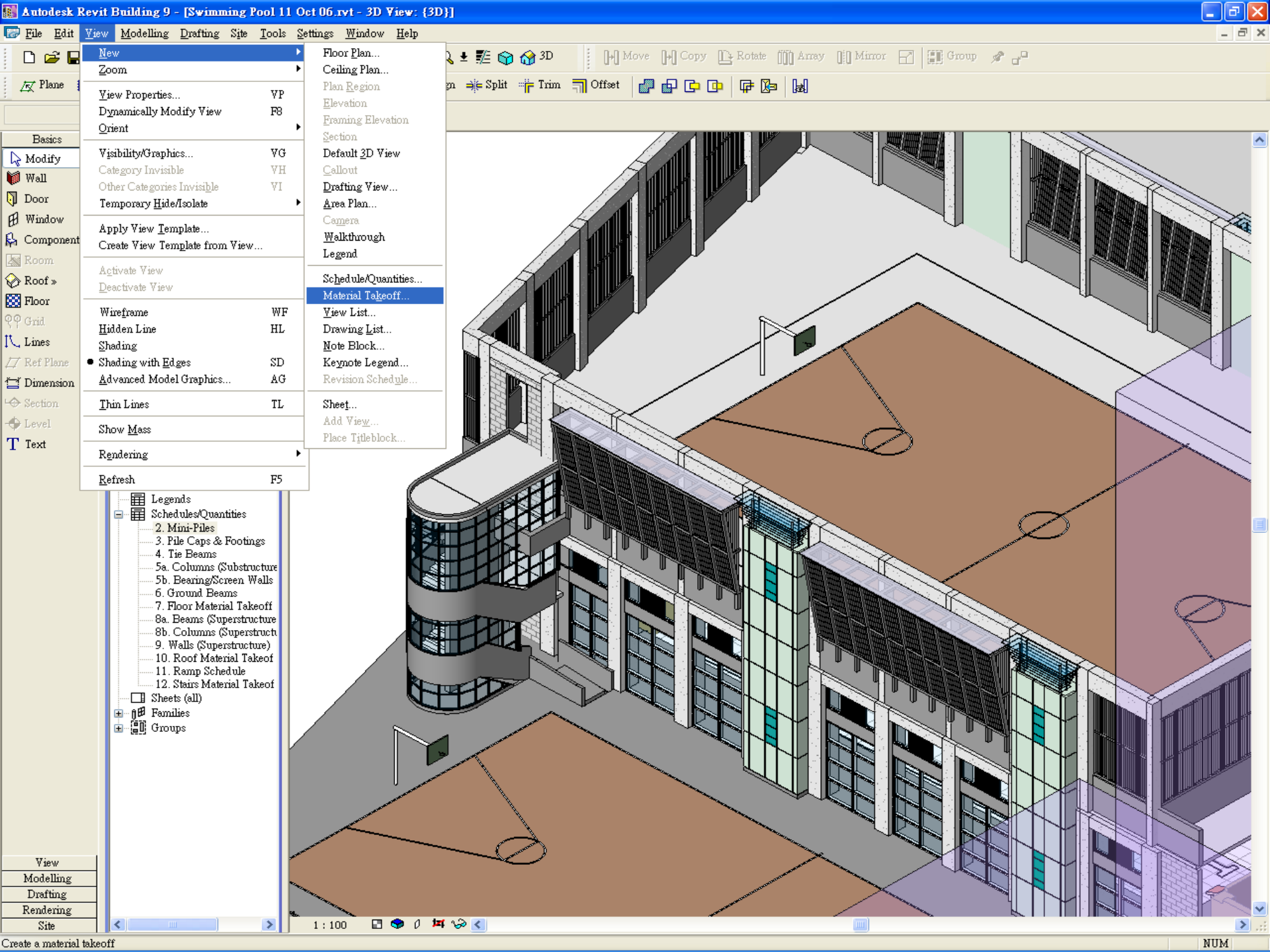
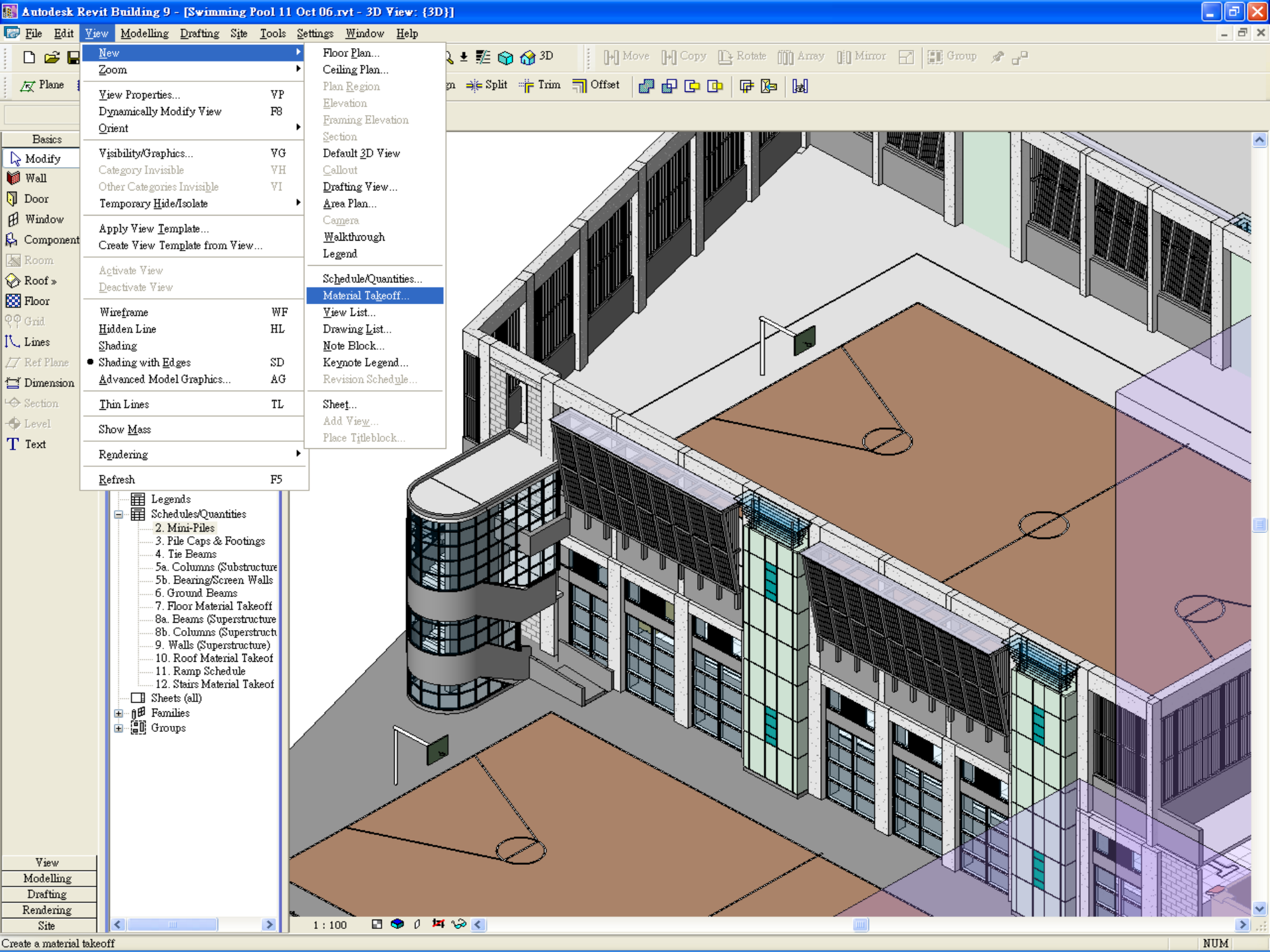
- Views (all)
 - Floor Plans
 - Cap Level 63.5
 - G/F
 - New Cover for Flat R
 - New Flat Roof
 - R/F
 - Site
 - Top of Fencing
 - UG Floor
 - Upper Roof
 - 3D Views
 - 1. Rock Profile
 - 2. Mini-piles
 - 3. Pile Caps & Footings
 - 4. Tie Beams
 - 5. Columns & Walls (
 - 6. Slabs & Gd. Beams
 - 7. G/F
 - 8. UG/F & New Flat R
 - 9. Roof
 - 10. NW Exterior**
 - 11. Pool Interior (3D)
 - Elevations (Building Elevations)
 - Sections (Building Sections)
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 - 2. Mini-Piles
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 - 5b. Bearing/Screen Walls
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 - 8b. Columns (Superstructure)
 - 9. Walls (Superstructure)
 - 10. Roof Material Takeoff
 - 11. Ramp Schedule
 - 12. Stairs Material Takeoff
 - Sheets (all)
 - Families
 - Groups

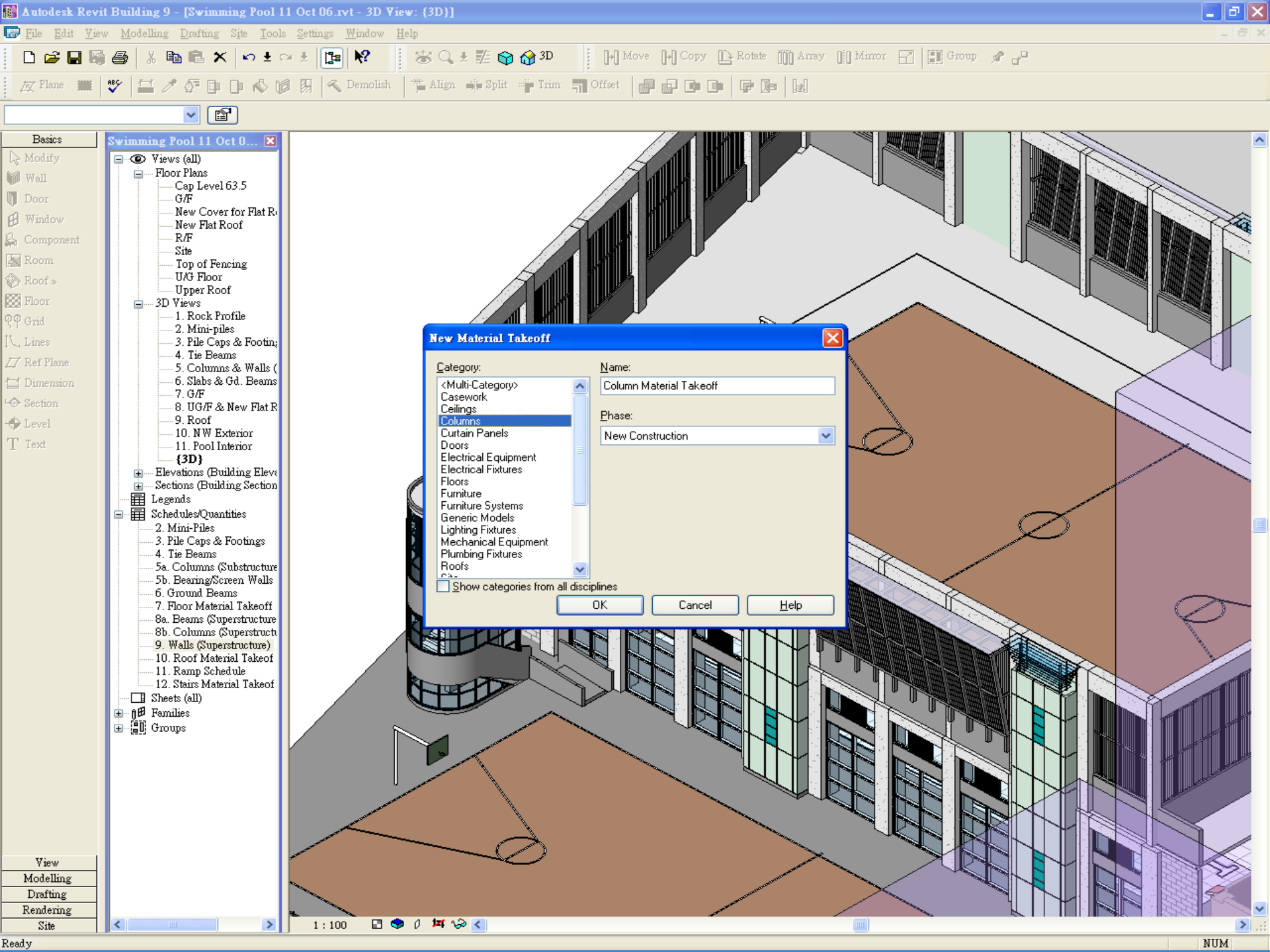
View

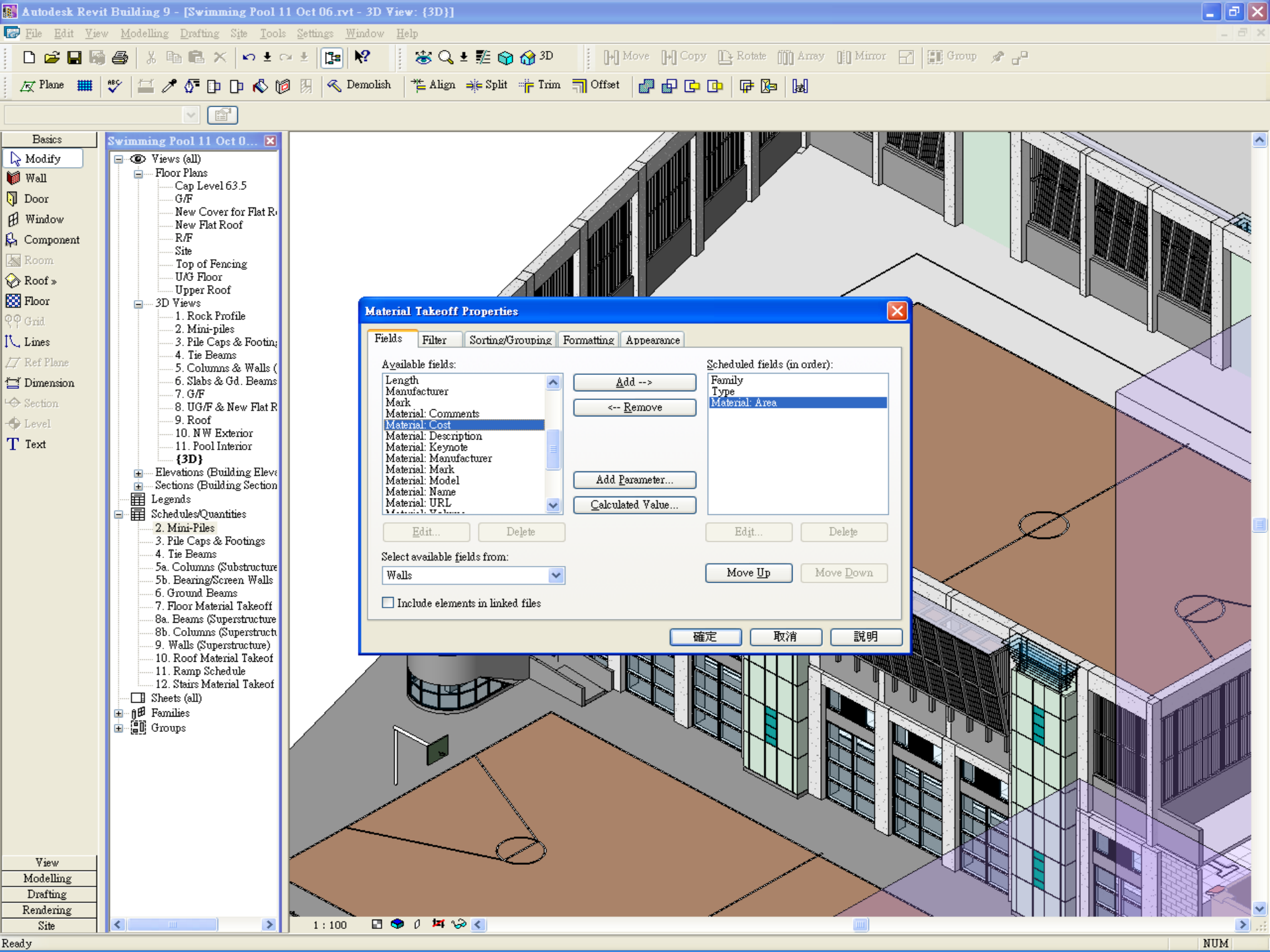
- Modelling
- Drafting
- Rendering
- Site











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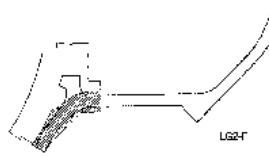
WAIVED – MasterSpec-Revit

Use of Building Information Modeling (BIM)

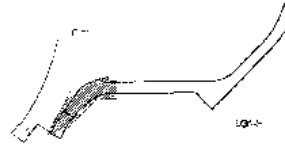
1. Design visualization
2. Drawing Productions
3. Services Co-ordination and Clash detection with other disciplines
4. Quantity taking and preparation of Tender Document
- 5. Automated Statutory Submission** 確認申請図書作成の自動化
6. Scientific analysis of different environmental aspects
7. Supply Chain Integration with the manufacturing and production
8. Complex Geometry

Architectural floor plan of the 3rd floor of the Aedas building. The plan shows a large, irregularly shaped building with a central courtyard area. The plan is overlaid with a grid system with letters A through R and numbers 1 through 24. Various rooms and areas are labeled, including 'RECEPTION', 'LOBBY', 'CORRIDOR', 'STAIRS', and 'ELEVATOR'. A north arrow is located in the bottom right corner. The plan is signed 'Aedas' and 'B D SUBMISSION'.

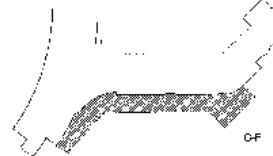
STATUTORY SUBMISSION



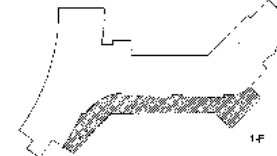
① EVA of Level 34.00_LG2/F
1:1000



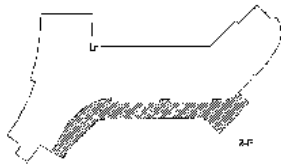
② EVA of Level 37.80_LG1/F
1:1000



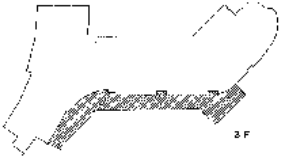
③ EVA of Level 41.60_GF
1:1000



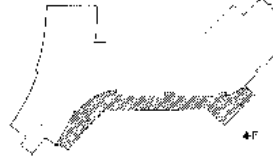
④ EVA of Level 45.80_1/F
1:1000



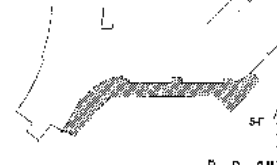
⑤ EVA of Level 49.80_2/F
1:1000



⑥ EVA of Level 53.80_3/F
1:1000

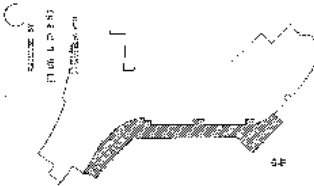


⑦ EVA of Level 58.20_4/F
1:1000



⑧ EVA of Level 62.00_5/F
1:1000

B D SUBMISSION



⑨ EVA of Level 65.80_6/F
1:1000

*Hatch area represents the total length of the building facade served by the EVA

CALCULATION ON TOTAL LENGTH OF BUILDING FACADE TO BE SERVED BY EVA AND PERCENTAGE OF SUCH LENGTH OVER THE TOTAL LENGTH OF ALL THE PERIMETER WALLS OF THE BUILDING

LEVEL	LEVEL NO.	LEVEL DESCRIPTION	LEVEL AREA (sqm)	LEVEL PERIMETER (m)	LEVEL FACADE LENGTH (m)	LEVEL FACADE LENGTH PERCENTAGE (%)
LG2/F	34.00	LG2/F	1000	1000	1000	1000
LG1/F	37.80	LG1/F	1000	1000	1000	1000
GF	41.60	GF	1000	1000	1000	1000
1/F	45.80	1/F	1000	1000	1000	1000
2/F	49.80	2/F	1000	1000	1000	1000
3/F	53.80	3/F	1000	1000	1000	1000
4/F	58.20	4/F	1000	1000	1000	1000
5/F	62.00	5/F	1000	1000	1000	1000
6/F	65.80	6/F	1000	1000	1000	1000

LEVEL	LEVEL NO.	LEVEL DESCRIPTION	LEVEL AREA (sqm)	LEVEL PERIMETER (m)	LEVEL FACADE LENGTH (m)	LEVEL FACADE LENGTH PERCENTAGE (%)
LG2/F	34.00	LG2/F	1000	1000	1000	1000
LG1/F	37.80	LG1/F	1000	1000	1000	1000
GF	41.60	GF	1000	1000	1000	1000
1/F	45.80	1/F	1000	1000	1000	1000
2/F	49.80	2/F	1000	1000	1000	1000
3/F	53.80	3/F	1000	1000	1000	1000
4/F	58.20	4/F	1000	1000	1000	1000
5/F	62.00	5/F	1000	1000	1000	1000
6/F	65.80	6/F	1000	1000	1000	1000

LEVEL	LEVEL NO.	LEVEL DESCRIPTION	LEVEL AREA (sqm)	LEVEL PERIMETER (m)	LEVEL FACADE LENGTH (m)	LEVEL FACADE LENGTH PERCENTAGE (%)
LG2/F	34.00	LG2/F	1000	1000	1000	1000
LG1/F	37.80	LG1/F	1000	1000	1000	1000
GF	41.60	GF	1000	1000	1000	1000
1/F	45.80	1/F	1000	1000	1000	1000
2/F	49.80	2/F	1000	1000	1000	1000
3/F	53.80	3/F	1000	1000	1000	1000
4/F	58.20	4/F	1000	1000	1000	1000
5/F	62.00	5/F	1000	1000	1000	1000
6/F	65.80	6/F	1000	1000	1000	1000

The Applicant
CITYVIEW DEVELOPMENT
CITYVIEW DEVELOPMENT
1/F, 1/F, 1/F

DESIGNED BY ARCHITECT NAME	DESIGNED BY ARCHITECT NAME	DESIGNED BY ARCHITECT NAME	DESIGNED BY ARCHITECT NAME	DESIGNED BY ARCHITECT NAME	DESIGNED BY ARCHITECT NAME	DESIGNED BY ARCHITECT NAME	DESIGNED BY ARCHITECT NAME
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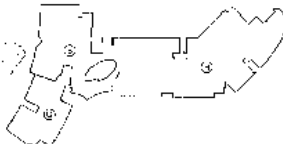
Aedas

STATUTORY SUBMISSION

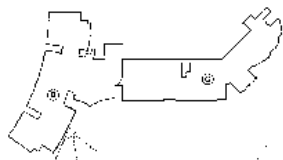
LG/5/F (+37.82) COMPARTMENT CALCULATION



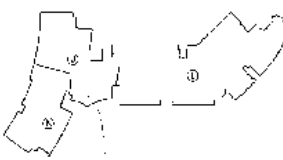
3/F (+53.80) COMPARTMENT CALCULATION



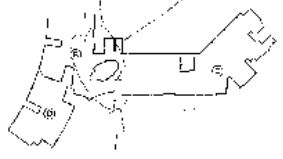
G/F (+41.80) COMPARTMENT CALCULATION



4/F (+53.20) COMPARTMENT CALCULATION



1/F (+45.80) COMPARTMENT CALCULATION



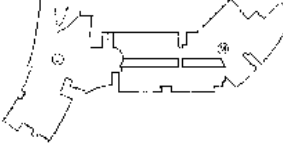
5/F (+52.00) COMPARTMENT CALCULATION



2/F (+49.80) COMPARTMENT CALCULATION



6/F (+55.80) COMPARTMENT CALCULATION



COMPARTMENT OF FLOOR				
LOC.	NO.	TYPE	AREA (sq.m)	VOLUME (cu.m)
LG/5/F	1	Office	275.442	9.31
3/F	1	Shop	54.208	3.19
3/F	2	Office	412.243	9.41
3/F	3	Restaurant	178.557	1.77
3/F	4	Kitchen	166.561	4.54
3/F	5	Office	704.274	2.33
3/F	6	Exhibition hall	6000	8.58
3/F	7	Total	6000	8.58

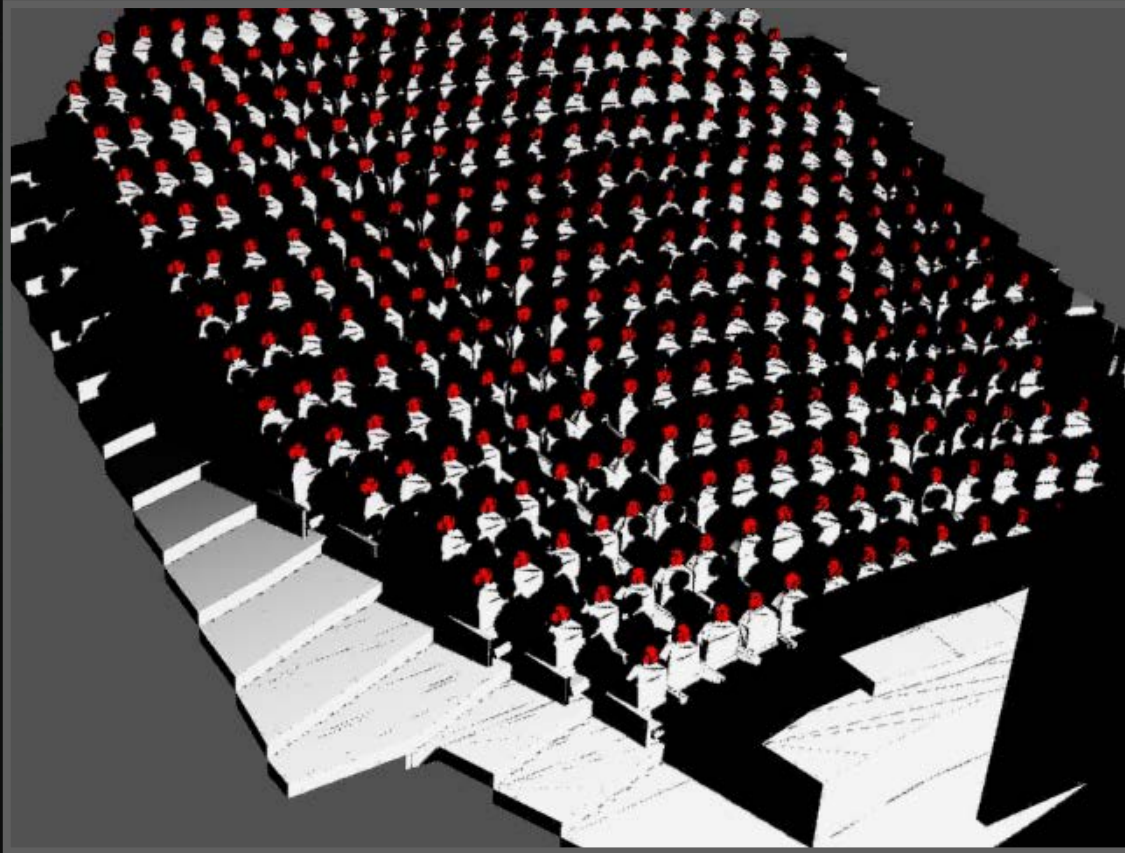
Total Capacity of COQUE				
Location	Use	Area	Factor	Total Capacity
LG/5/F	Office	275.442	9	31
G/F	Shop	54.208	3	19
G/F	Office	412.243	9	41
3/F	Restaurant	178.557	1	177
3/F	Kitchen	166.561	4.5	107
3/F	Office	2121.44	9	294
3/F	Office	2031.235	9	226
3/F	Restaurant	178.557	1	177
3/F	Kitchen	166.561	4.5	42
3/F	Exhibition hall	704.274	2	353
Total number of students				6000
Total				8.58

SCHEDULE 1: MINIMUM NUMBER & WIDTH OF EXIT ROUTES FOR EACH FLOOR									
LOCATION	FLOOR	SUBJECT	MIN. NO. OF EXIT ROUTES		MIN. WIDTH OF EACH EXIT ROUTE		MIN. TOTAL WIDTH OF EXIT ROUTES		REMARKS
			REQD.	PROV.	REQD.	PROV.	REQD.	PROV.	
LG/5/F	1	Office	1	1	1.00	1.00	1.00	1.00	
3/F	1	Shop	1	1	1.00	1.00	1.00	1.00	
3/F	2	Office	1	1	1.00	1.00	1.00	1.00	
3/F	3	Restaurant	1	1	1.00	1.00	1.00	1.00	
3/F	4	Kitchen	1	1	1.00	1.00	1.00	1.00	
3/F	5	Office	1	1	1.00	1.00	1.00	1.00	
3/F	6	Exhibition hall	1	1	1.00	1.00	1.00	1.00	
3/F	7	Total	1	1	1.00	1.00	1.00	1.00	

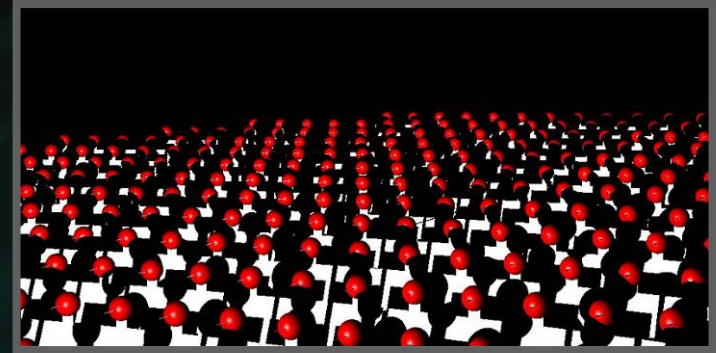
THE RESISTANCE REQUIREMENTS FOR SUBSTRUCTURE OF CONSTRUCTION												
COMPONENT ITEM	MATERIAL	TOTAL VOLUME (cu.m)	RES. REQD.		R.C. BEAM		R.C. COLUMN		R.C. SLAB		R.C. STAIR	
			THK.	CONCRETE STRE.	THK.	CONCRETE STRE.	THK.	CONCRETE STRE.	THK.	CONCRETE STRE.	THK.	CONCRETE STRE.
1	OFFICE	1592.283	75	10	100	120	200	75	10	100	100	100
2	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
3	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
4	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
5	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
6	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
7	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
8	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
9	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
10	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
11	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
12	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
13	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
14	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
15	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
16	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
17	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
18	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
19	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
20	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
21	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
22	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
23	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
24	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
25	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
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27	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
28	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
29	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
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33	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
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35	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
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37	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
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44	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
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66	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
67	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
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71	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
72	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
73	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
74	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
75	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
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77	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
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85	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
86	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
87	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
88	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
89	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
90	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
91	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
92	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
93	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
94	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
95	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
96	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
97	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
98	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
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101	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
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103	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
104	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
105	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
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107	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140	300	75	10	100	100	100
108	7. PLACE OF ASSEMBLY	1810.000	100	10	100	140						

Use of Building Information Modeling (BIM)

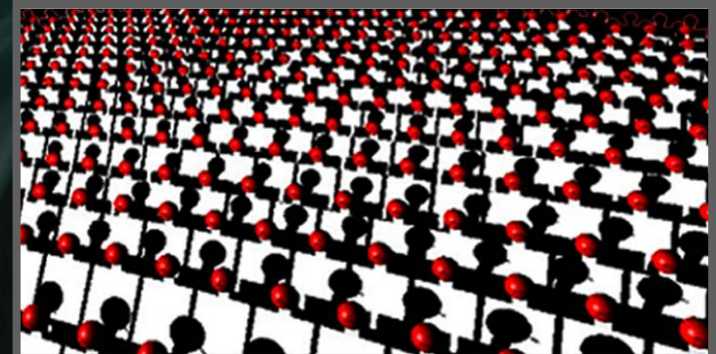
1. Design visualization
2. Drawing Productions
3. Services Co-ordination and Clash detection with other disciplines
4. Quantity taking and preparation of Tender Document
5. Automated Statutory Submission
- 6. Scientific analysis of different environmental aspects** 様々な環境
解析
7. Supply Chain Integration with the manufacturing and production
8. Complex Geometry



Radiating Light Method



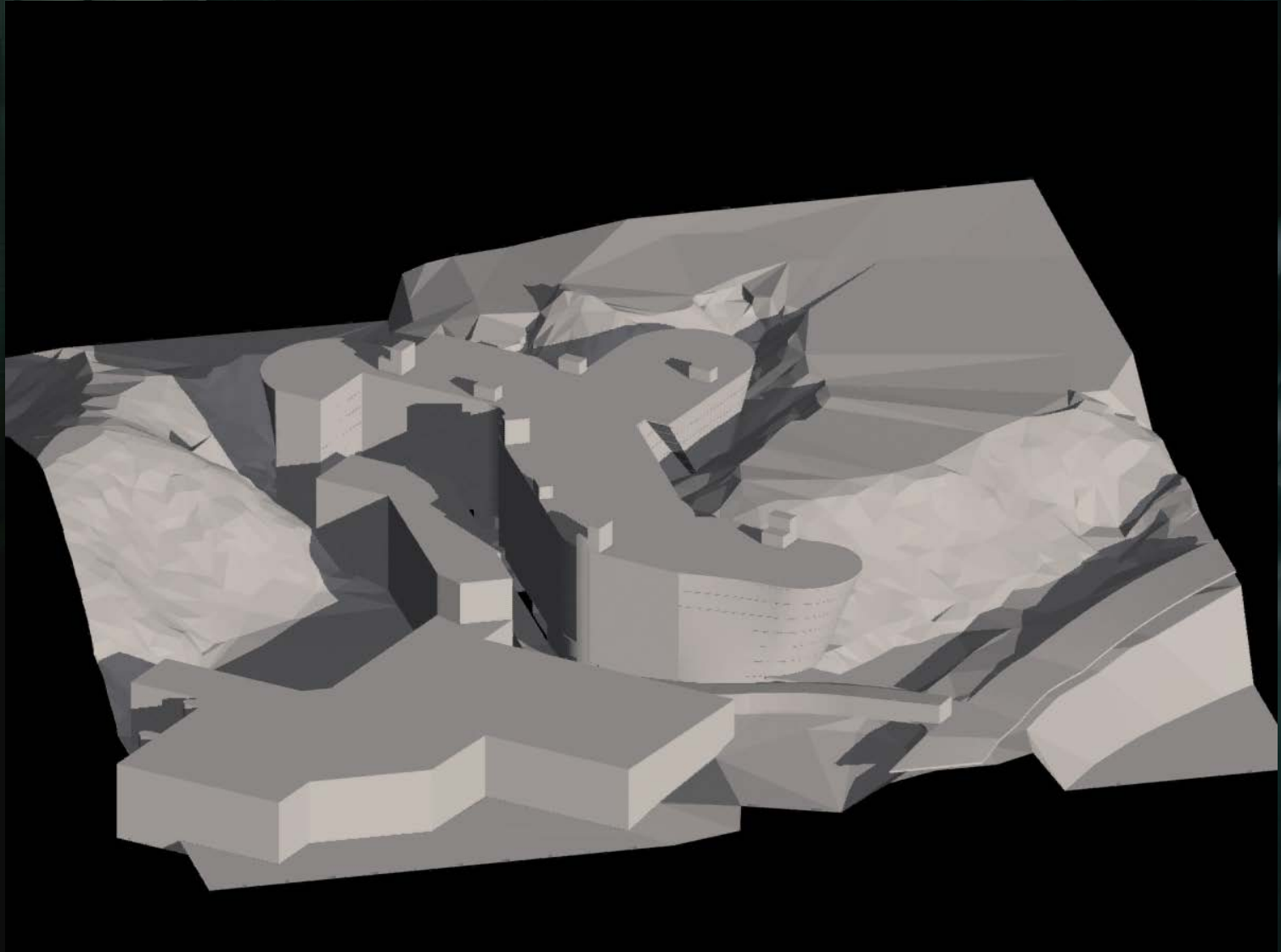
Unsatisfactory sightlines



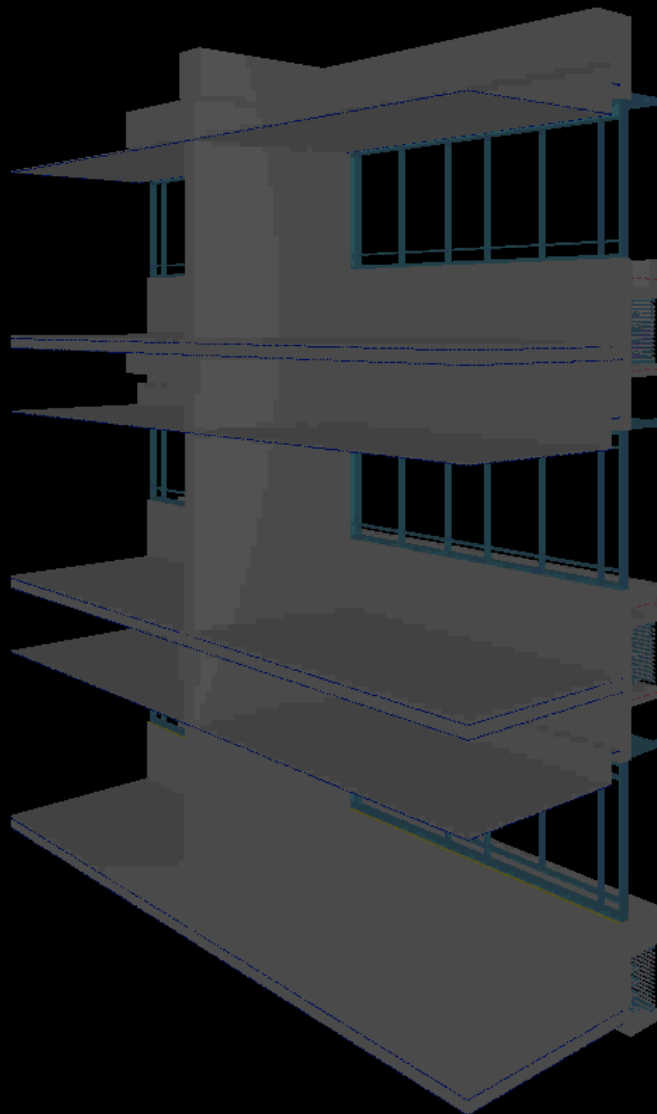
Satisfactory sightlines

SIGHTLINE STUDIES

ANALYSIS



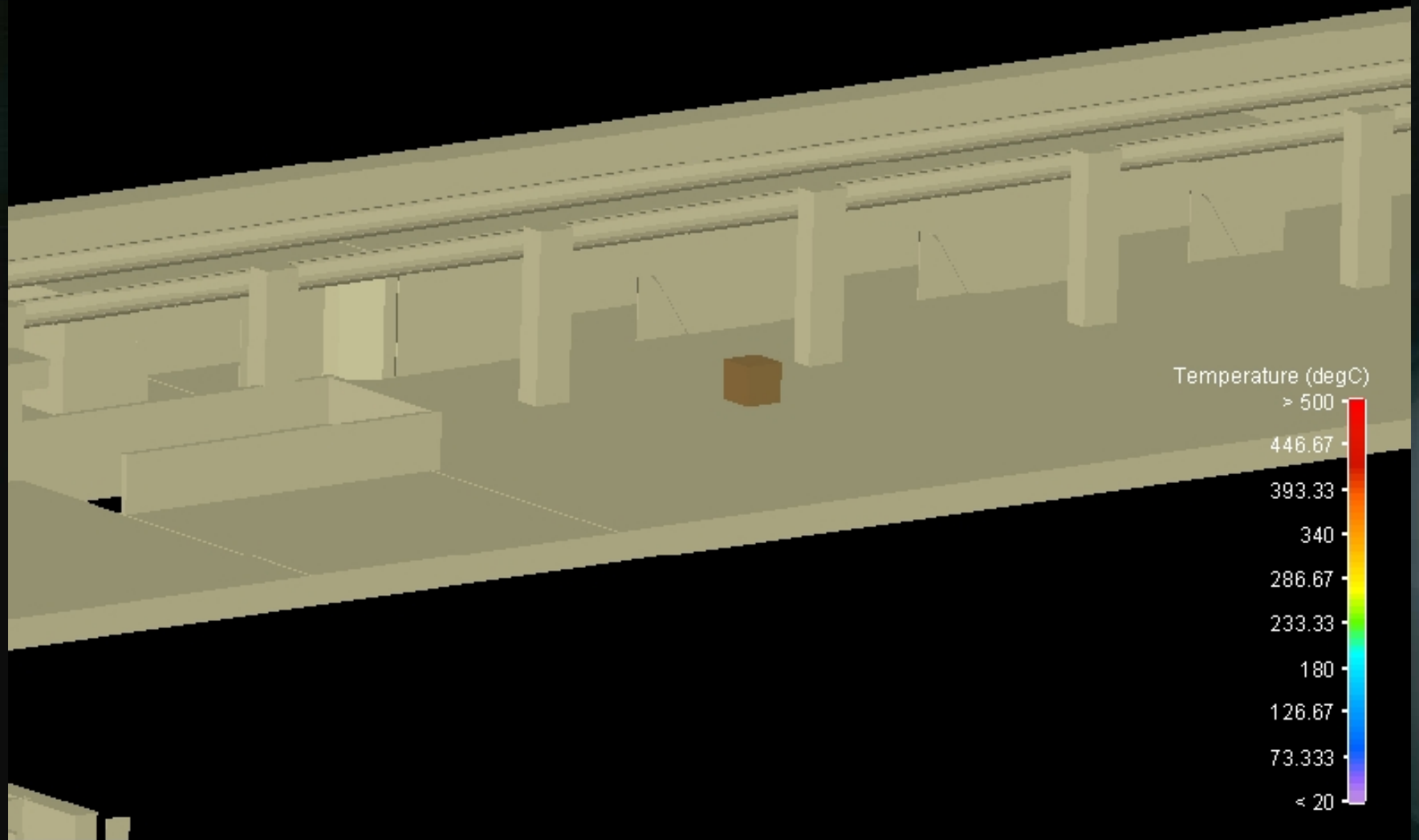
SUN STUDY



FAÇADE SOLAR STUDY
21/12/2006 7:00am – 6:00pm

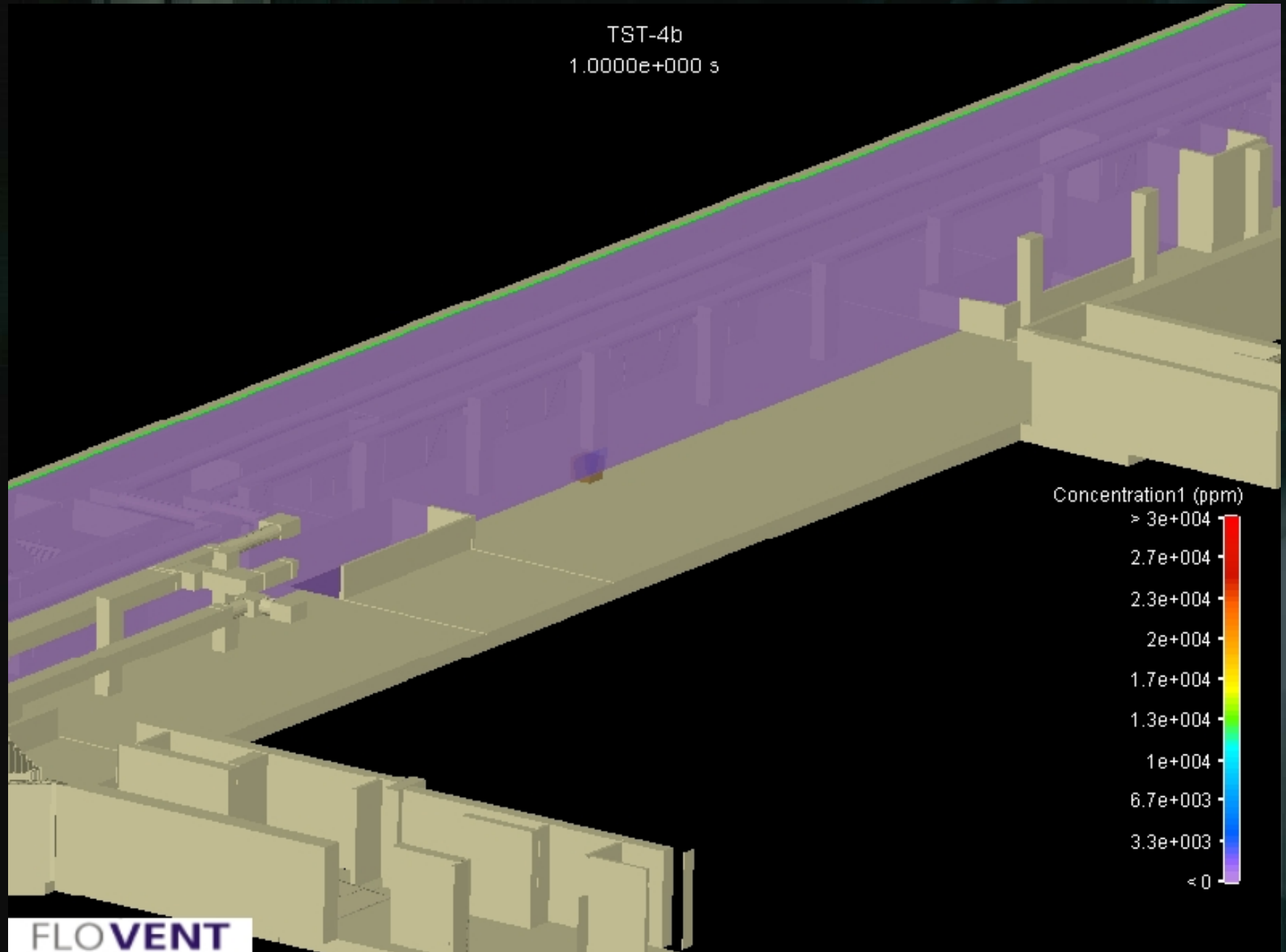
ANALYSIS

TST-4c
1.0000e+000 s

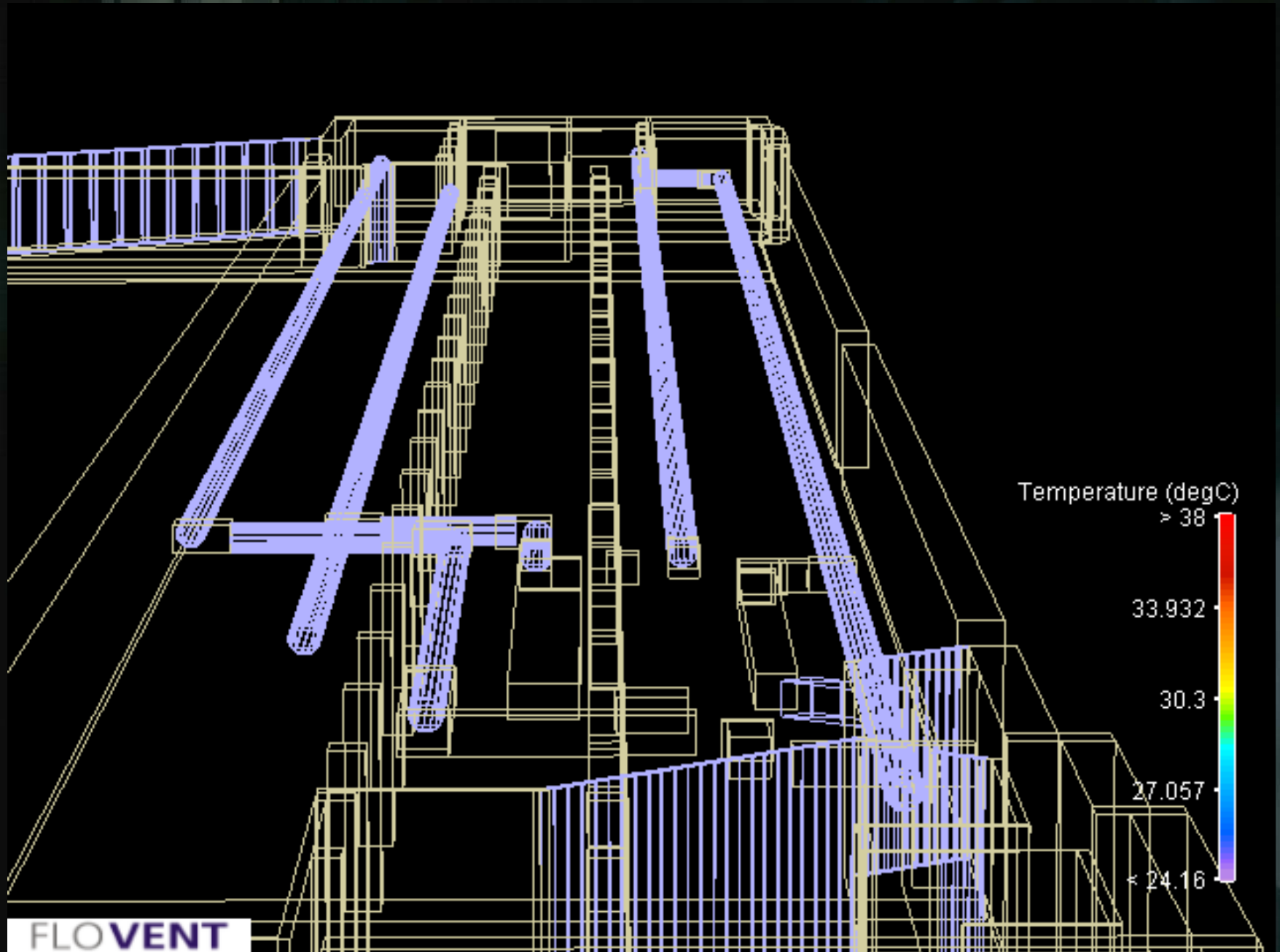


ANALYSIS

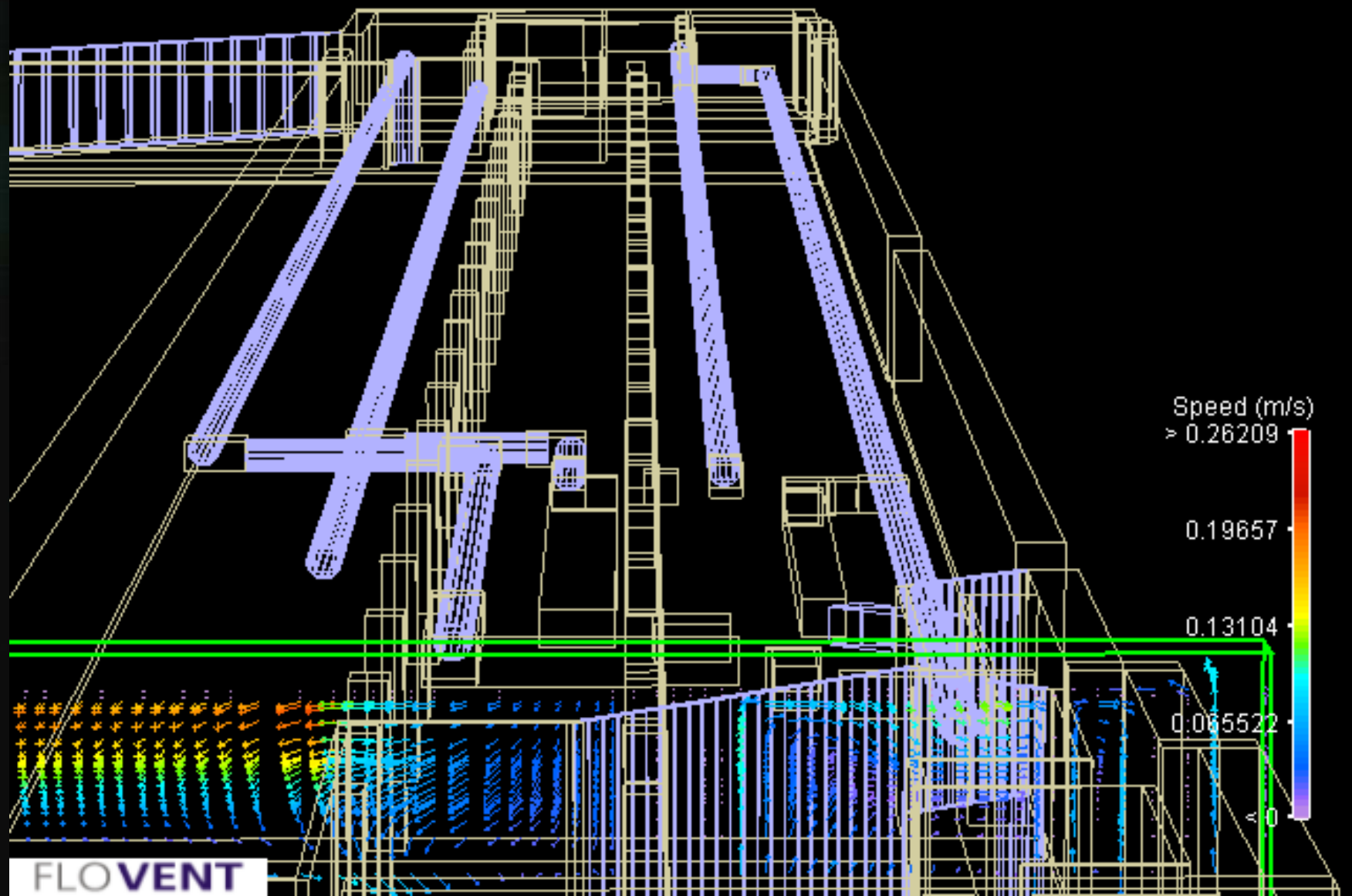
TST-4b
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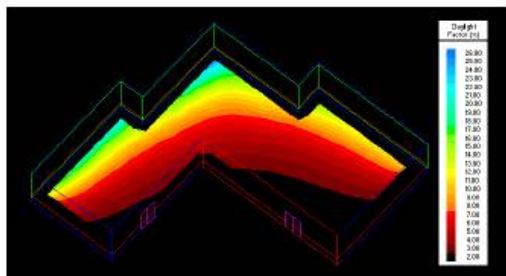
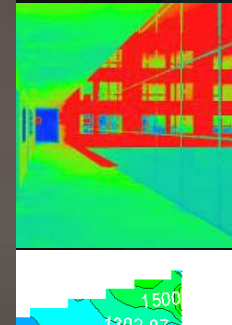
ANALYSIS

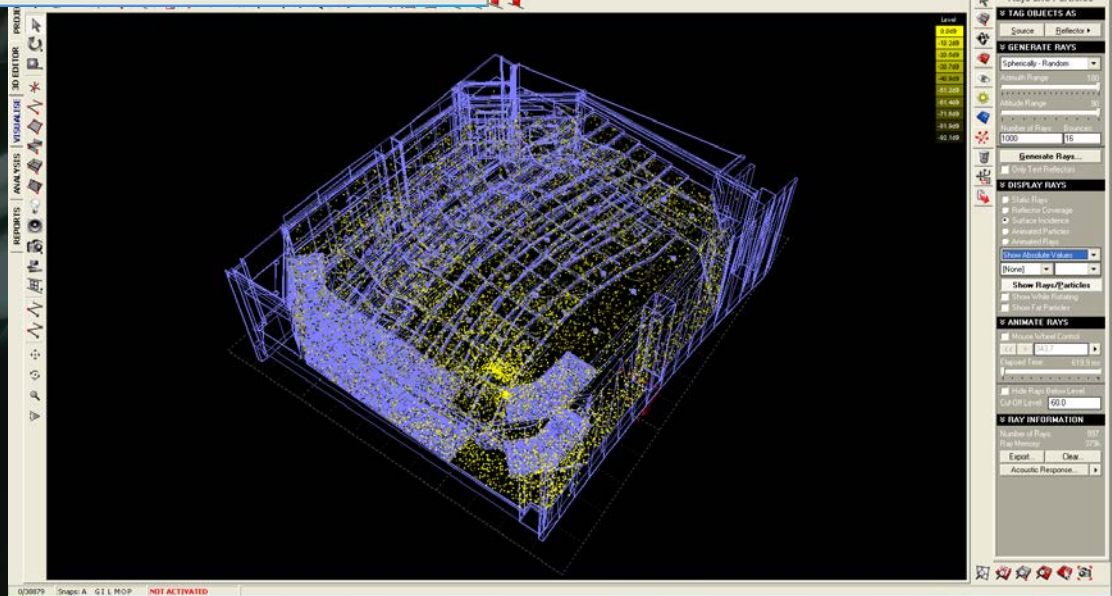
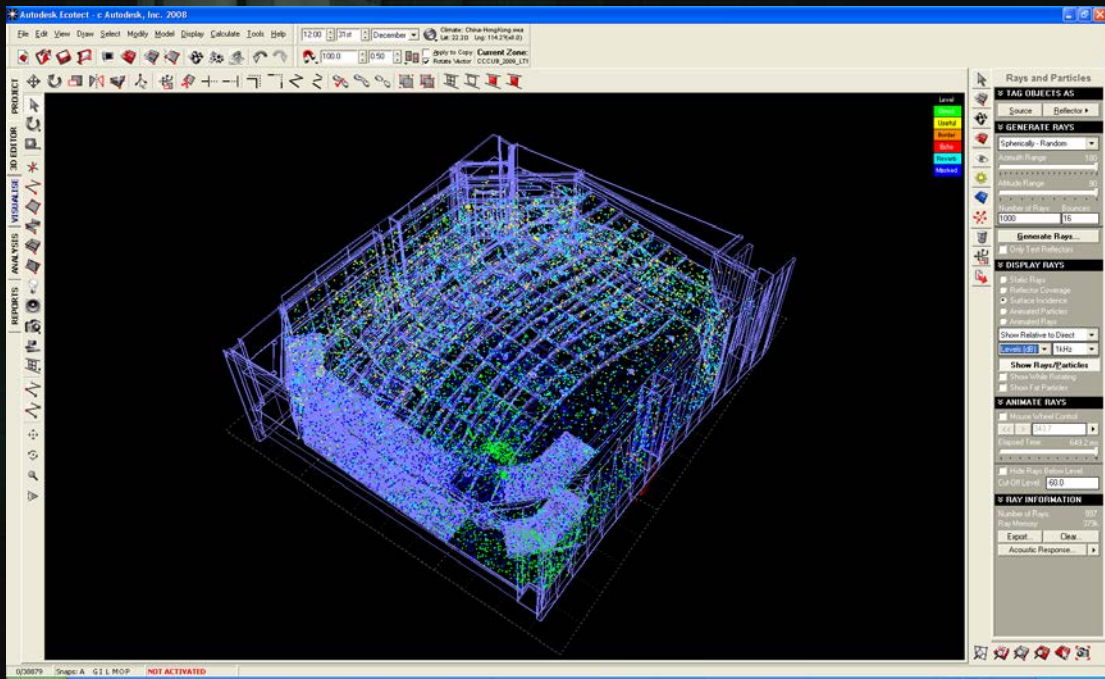


ANALYSIS



esign



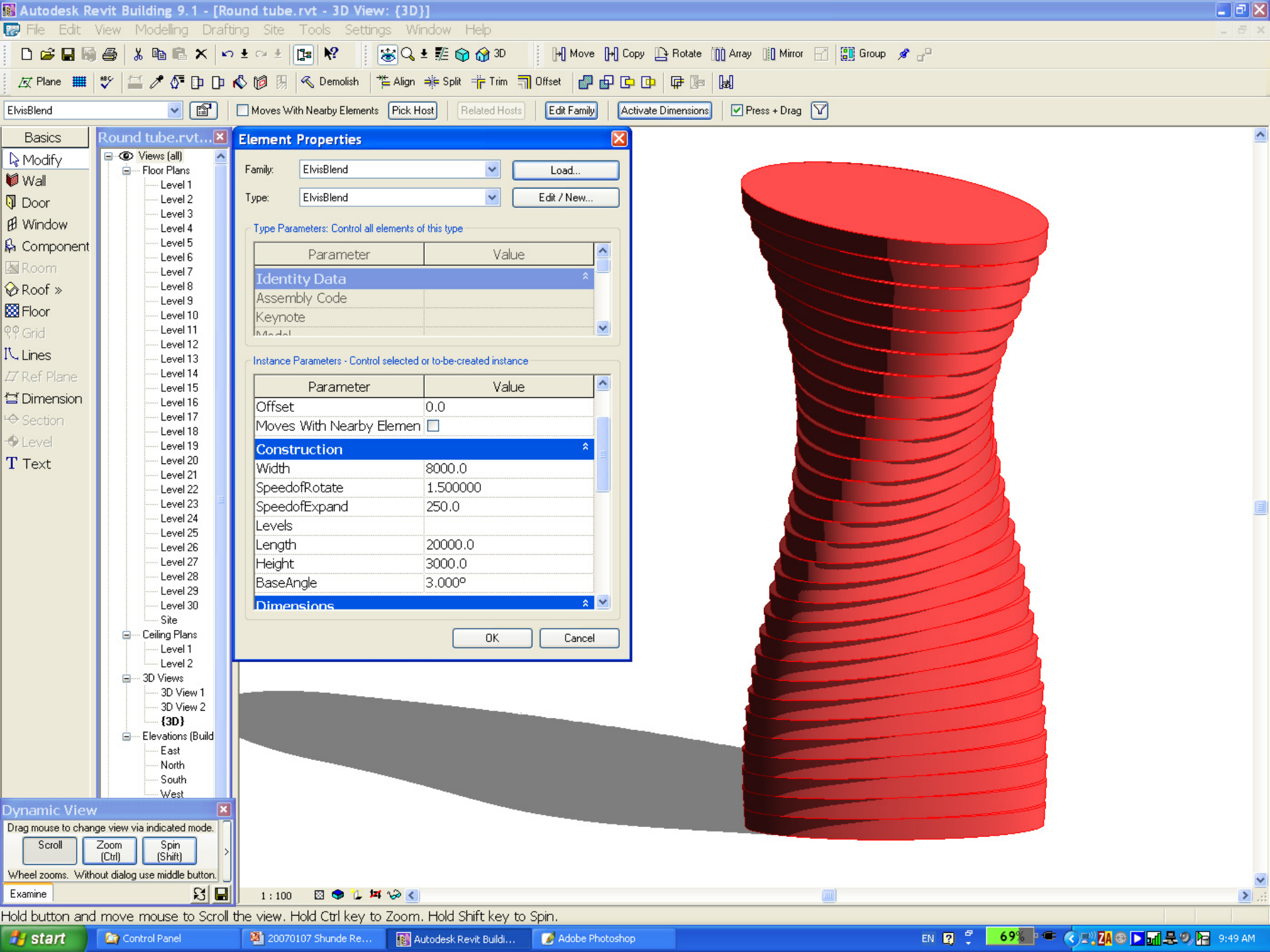


Use of Building Information Modeling (BIM)

1. Design visualization
2. Drawing Productions
3. Services Co-ordination and Clash detection with other disciplines
4. Quantity taking and preparation of Tender Document
5. Automated Statutory Submission
6. Scientific analysis of different environmental aspects
- 7. Supply Chain Integration with the manufacturing and production**
サプライヤとの連携
8. Complex Geometry

Use of Building Information Modeling (BIM)

1. Design visualization
2. Drawing Productions
3. Services Co-ordination and Clash detection with other disciplines
4. Quantity taking and preparation of Tender Document
5. Automated Statutory Submission
6. Scientific analysis of different environmental aspects
7. Supply Chain Integration with the manufacturing and production
8. **Complex Geometry** 複雑な形状を実現可能



Basics Round tube.rvt...

- Views (all)
- Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Level 5
 - Level 6
 - Level 7
 - Level 8
 - Level 9
 - Level 10
 - Level 11
 - Level 12
 - Level 13
 - Level 14
 - Level 15
 - Level 16
 - Level 17
 - Level 18
 - Level 19
 - Level 20
 - Level 21
 - Level 22
 - Level 23
 - Level 24
 - Level 25
 - Level 26
 - Level 27
 - Level 28
 - Level 29
 - Level 30
 - Site
- Ceiling Plans
 - Level 1
 - Level 2
- 3D Views
 - 3D View 1
 - 3D View 2
 - {3D}
- Elevations (Build)
 - East
 - North
 - South
 - West

Dynamic View

Drag mouse to change view via indicated mode.

Scroll Zoom (Ctrl) Spin (Shift)

Wheel zooms. Without dialog use middle button.

Examine

Element Properties

Family: ElvisBlend Load...

Type: ElvisBlend Edit / New...

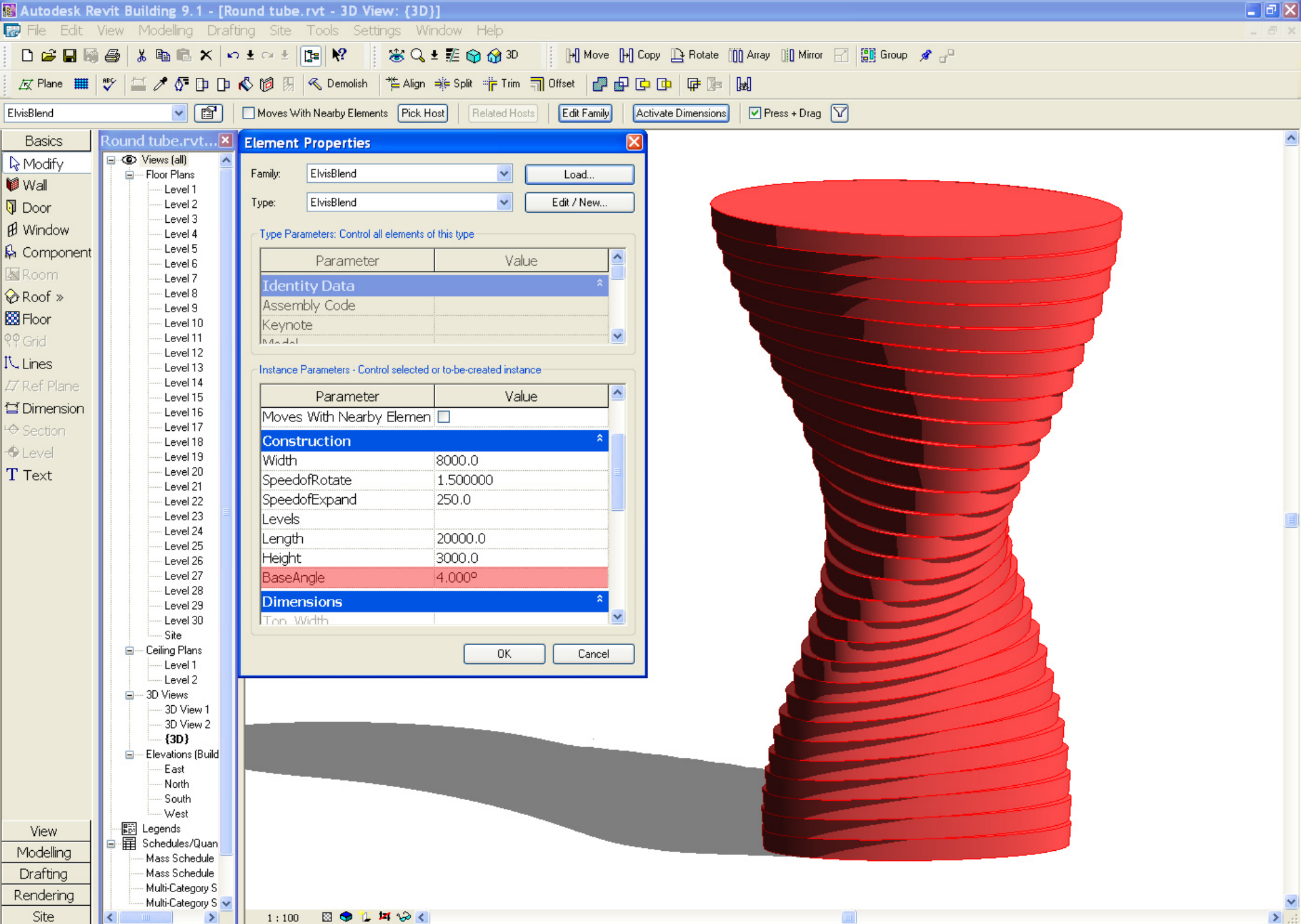
Type Parameters: Control all elements of this type

Parameter	Value
Identity Data	
Assembly Code	
Keynote	
Model	

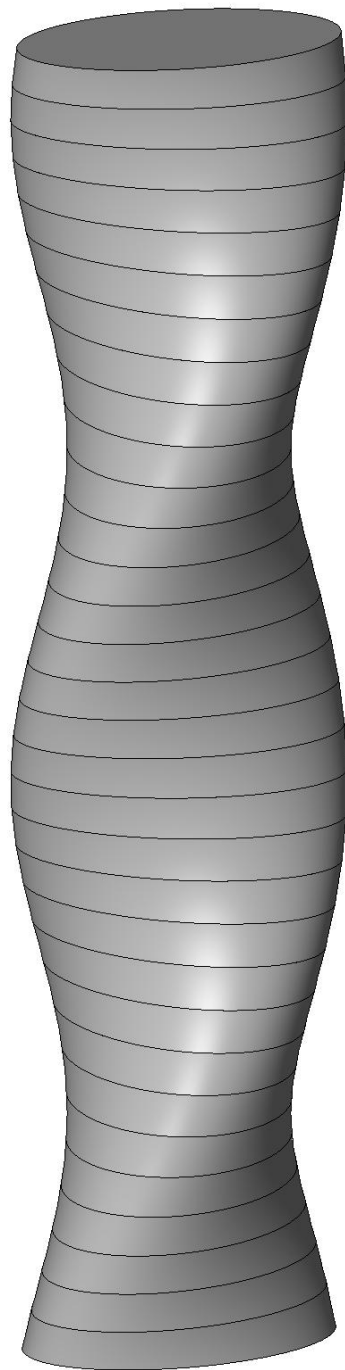
Instance Parameters - Control selected or to-be-created instance

Parameter	Value
Offset	0.0
Moves With Nearby Elements	☐
Construction	
Width	8000.0
SpeedofRotate	1.500000
SpeedofExpand	250.0
Levels	
Length	20000.0
Height	3000.0
BaseAngle	3.000°
Dimensions	

OK Cancel



Click to select, TAB for alternates, CTRL adds, SHIFT unselects.





absoluteworld BUILDING 2

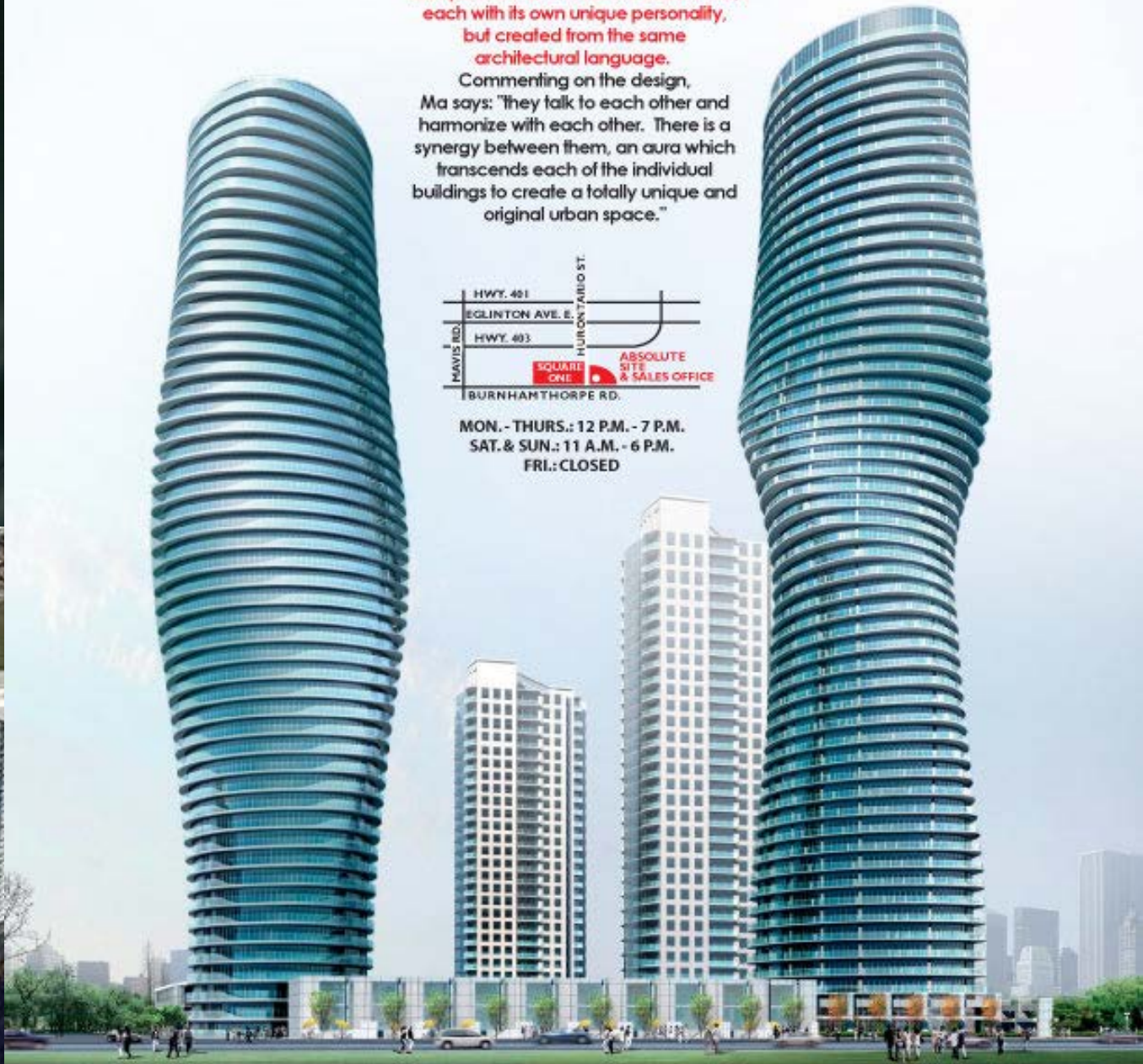
AbsoluteWorld's two buildings, as envisioned by their creator, Yansong Ma. The buildings were designed to complement and enhance each other, each with its own unique personality, but created from the same architectural language.

Commenting on the design, Ma says: "They talk to each other and harmonize with each other. There is a synergy between them, an aura which transcends each of the individual buildings to create a totally unique and original urban space."



MON. - THURS.: 12 P.M. - 7 P.M.
SAT. & SUN.: 11 A.M. - 6 P.M.
FRI.: CLOSED

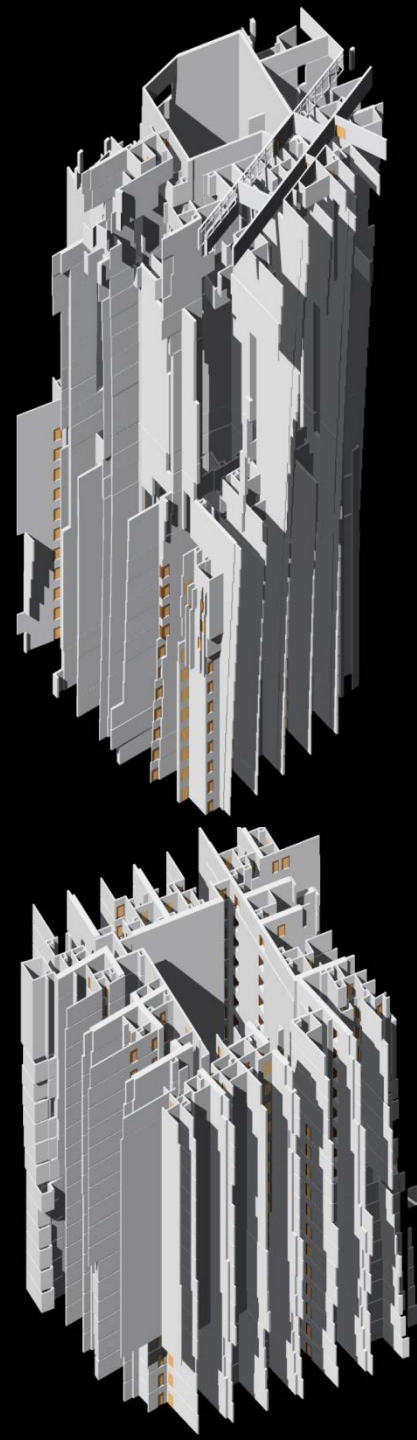
absoluteworld BUILDING 1



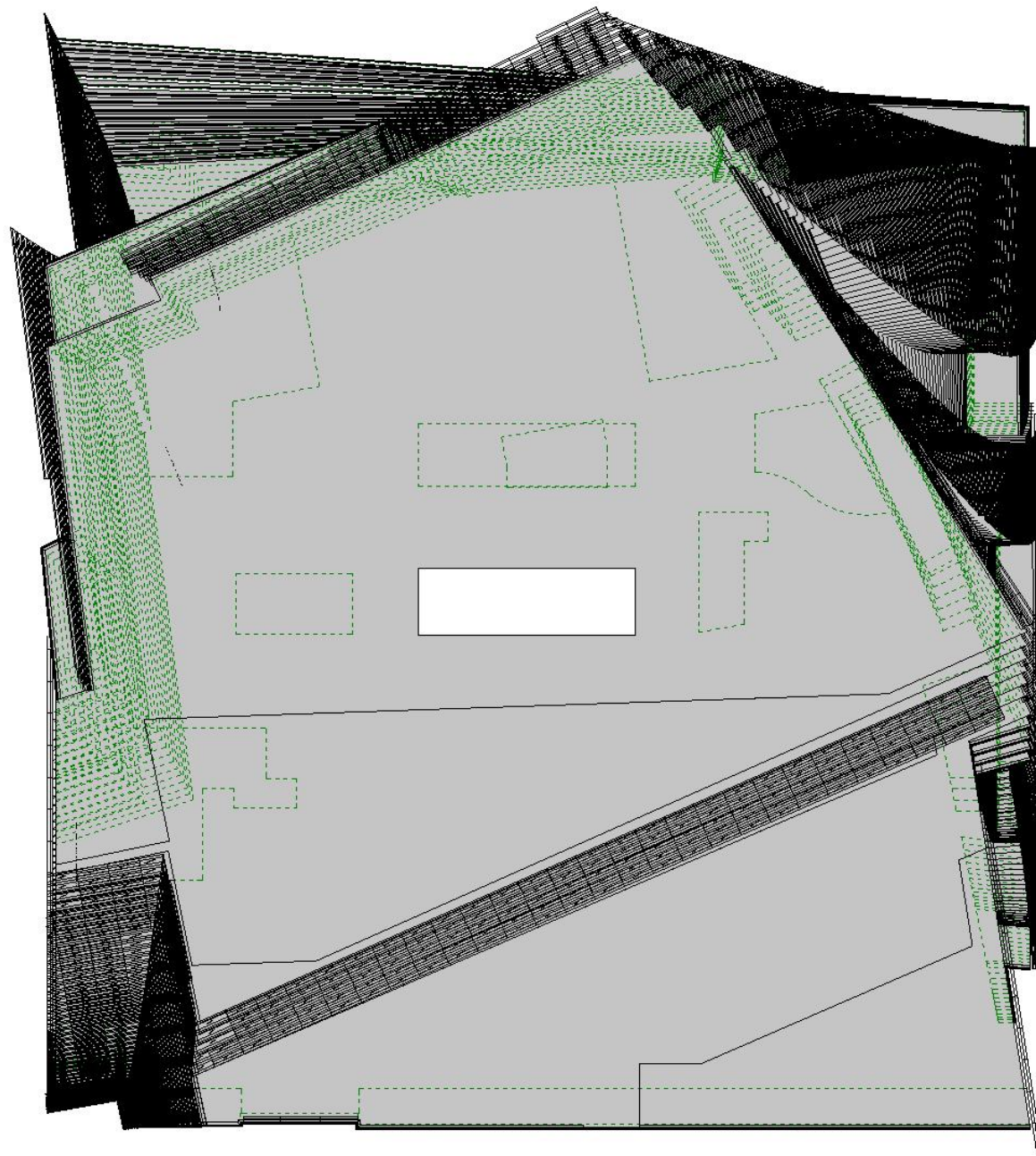
Program: Residential Site Area: 3,746 sqm
Floor Area: 659,659 sqm Building Height: 345 m

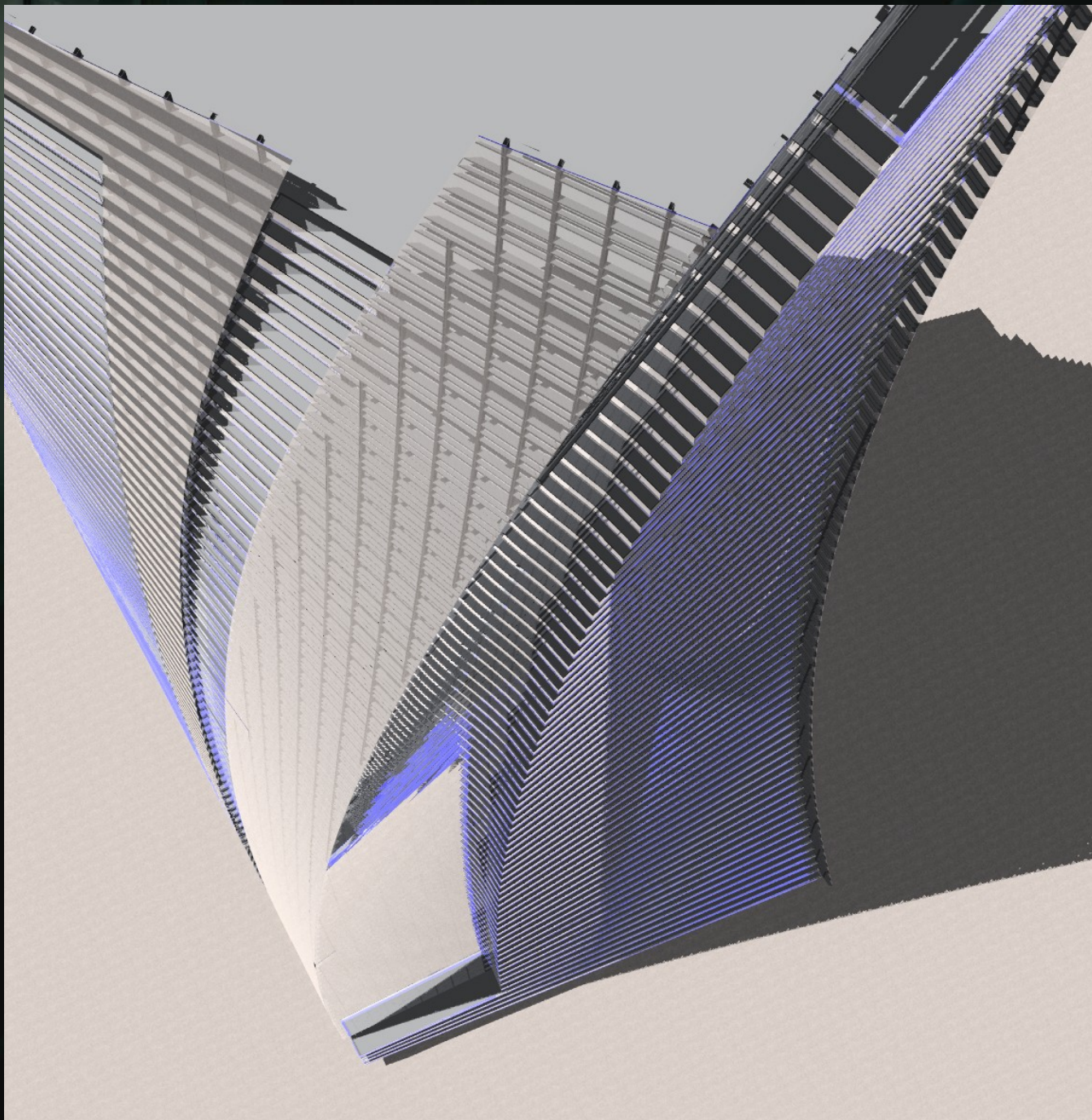


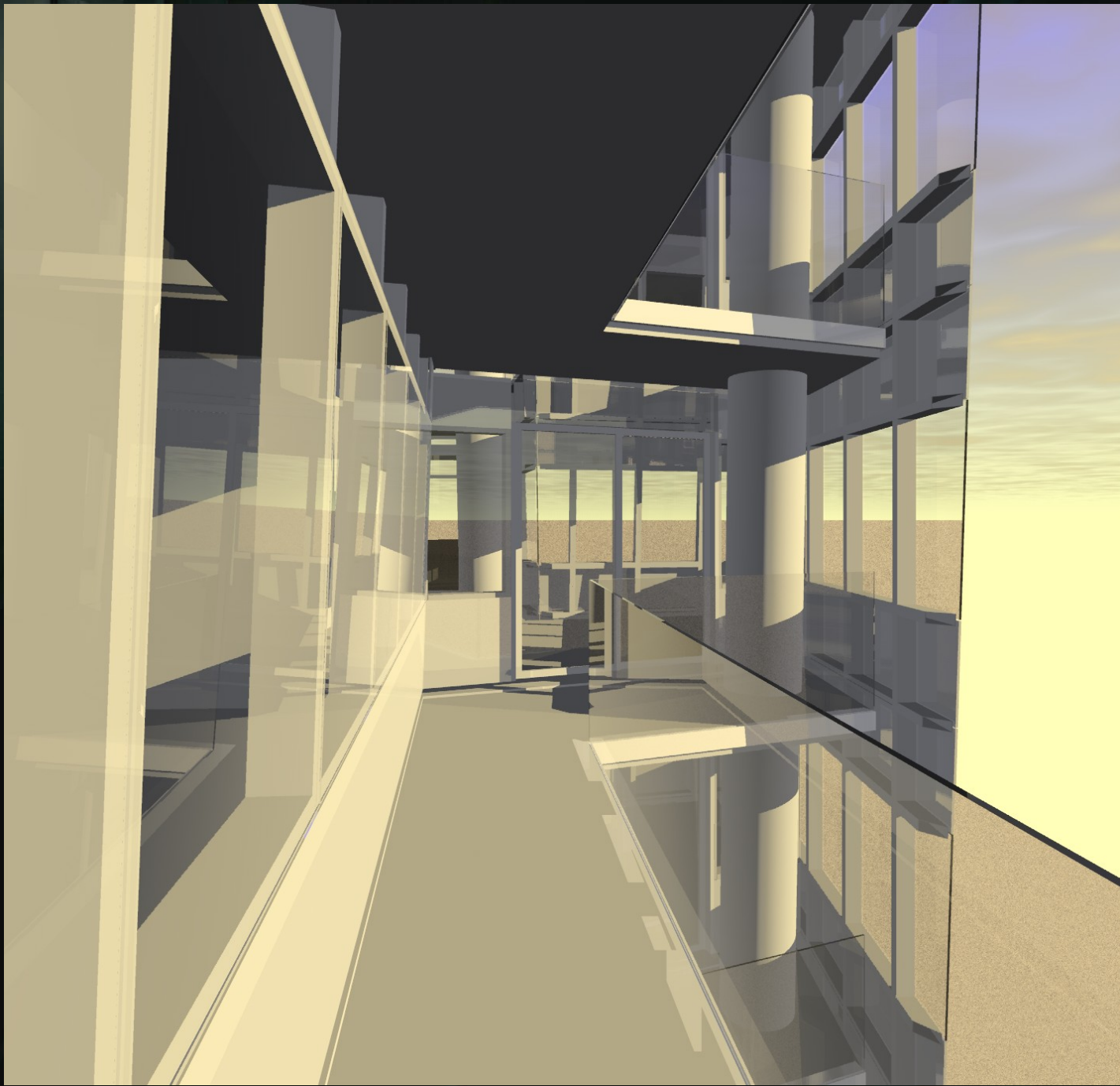
Dubai **Ocean Heights One**

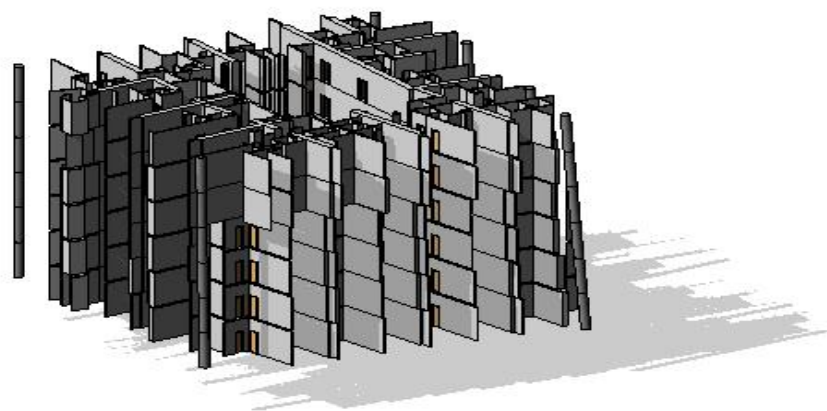


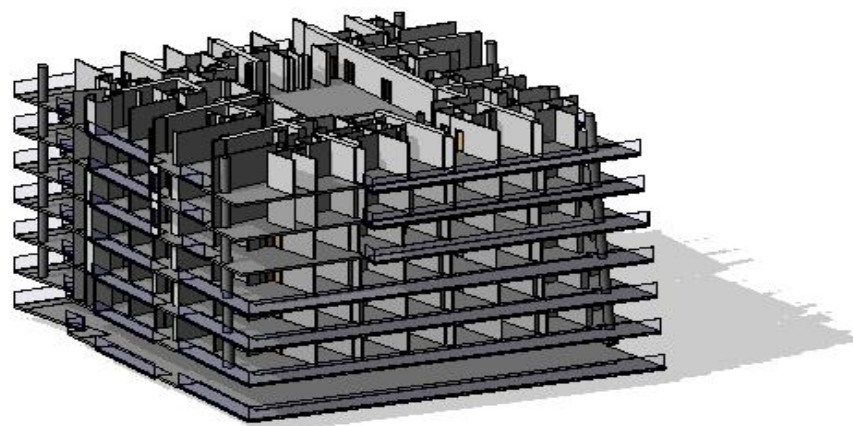
COMPLEX GEOMETRY









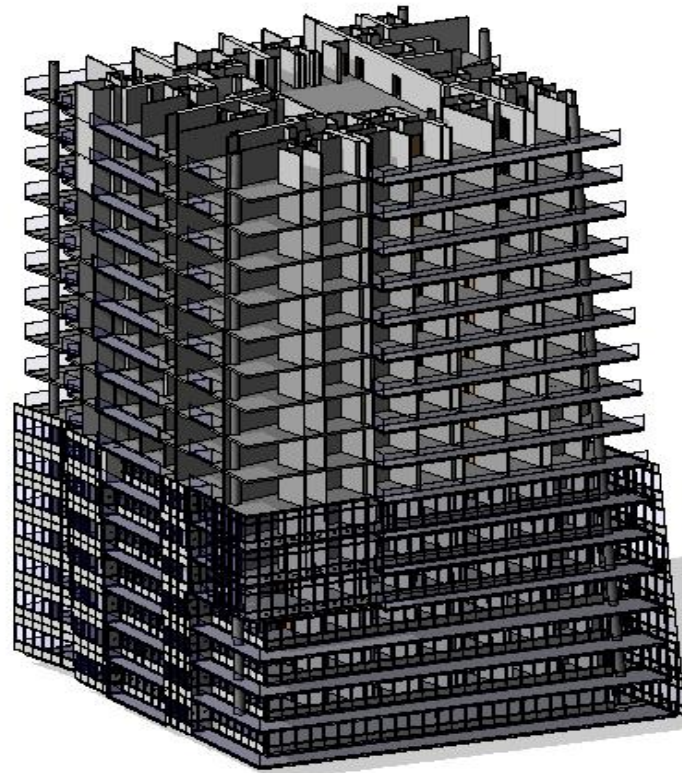










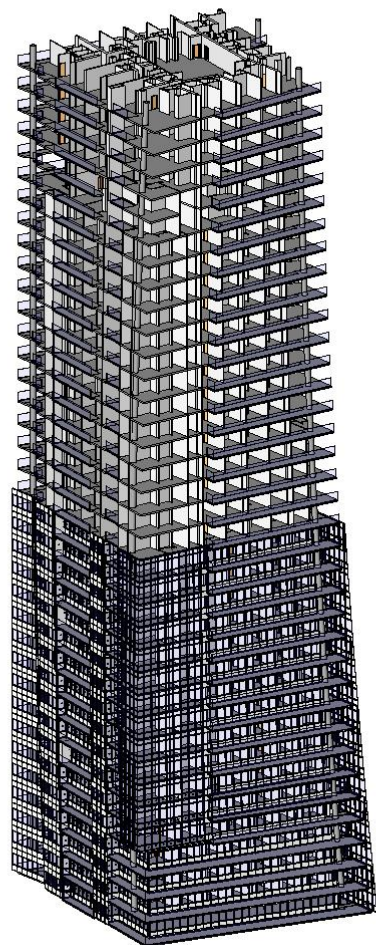


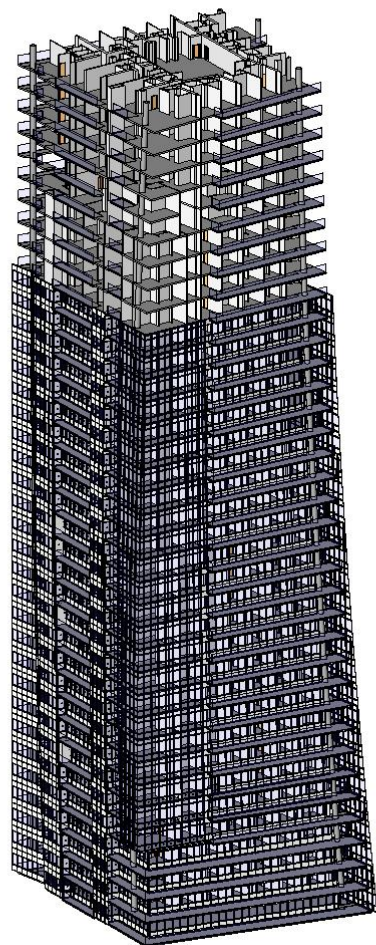


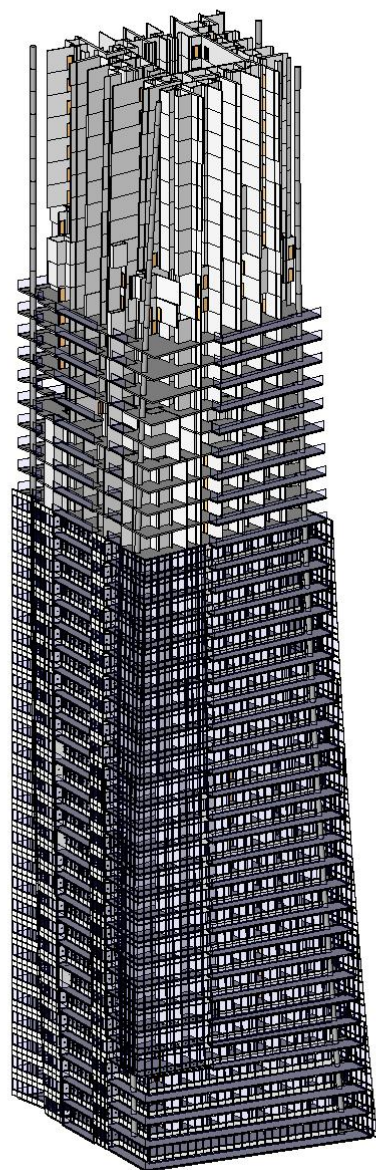


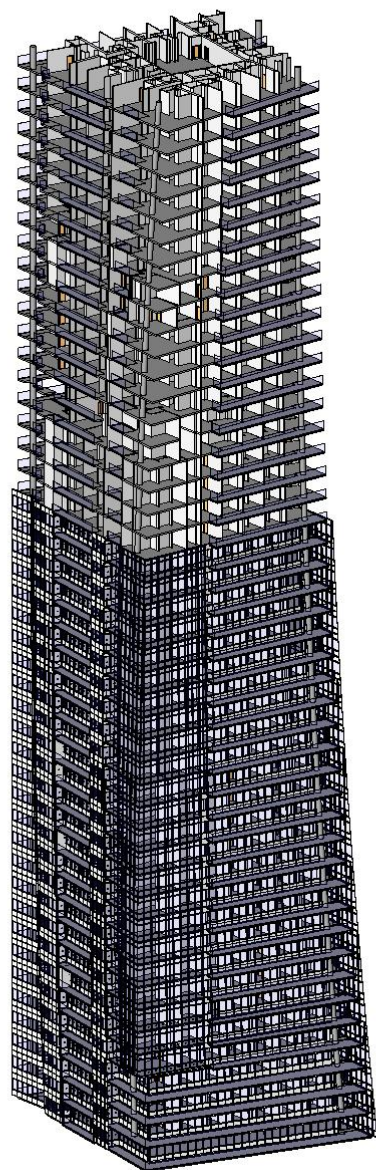


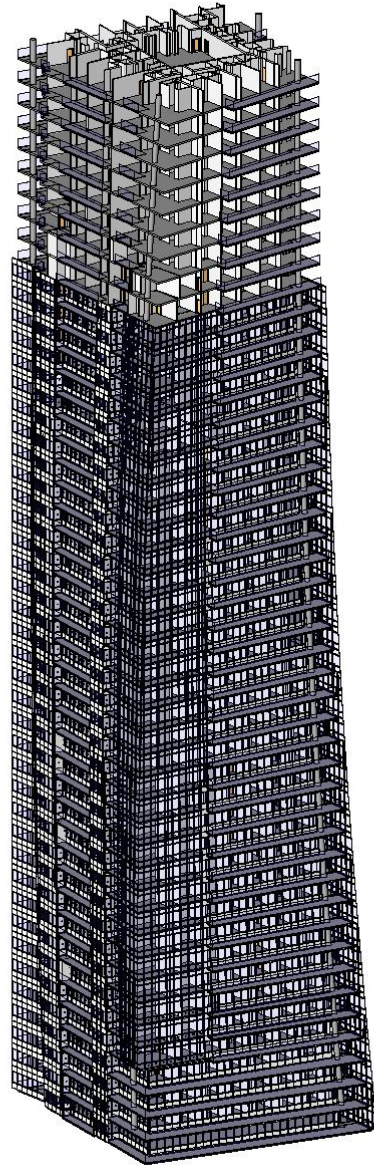


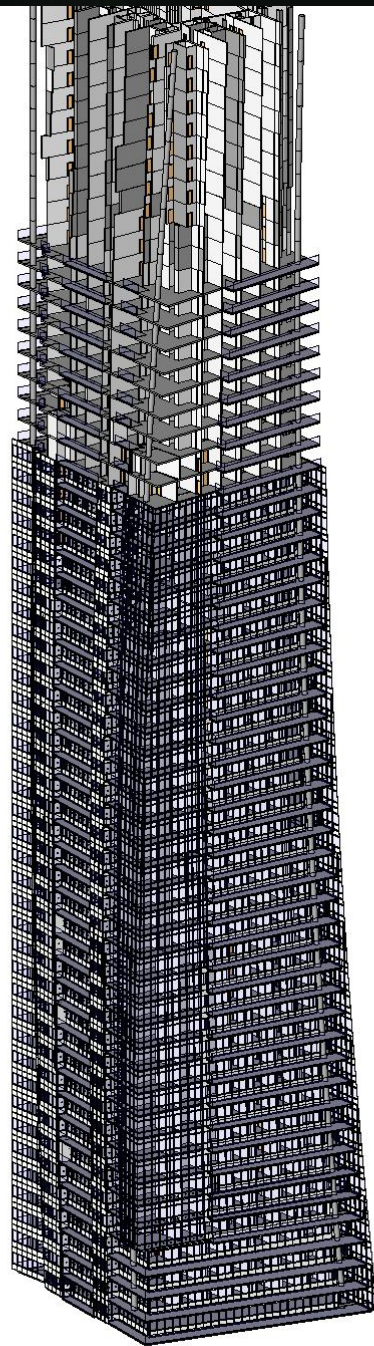


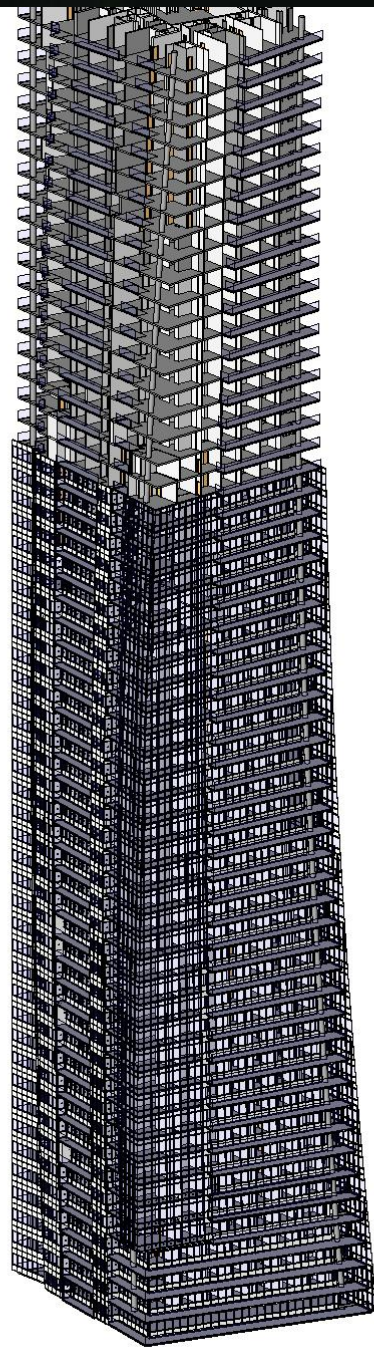


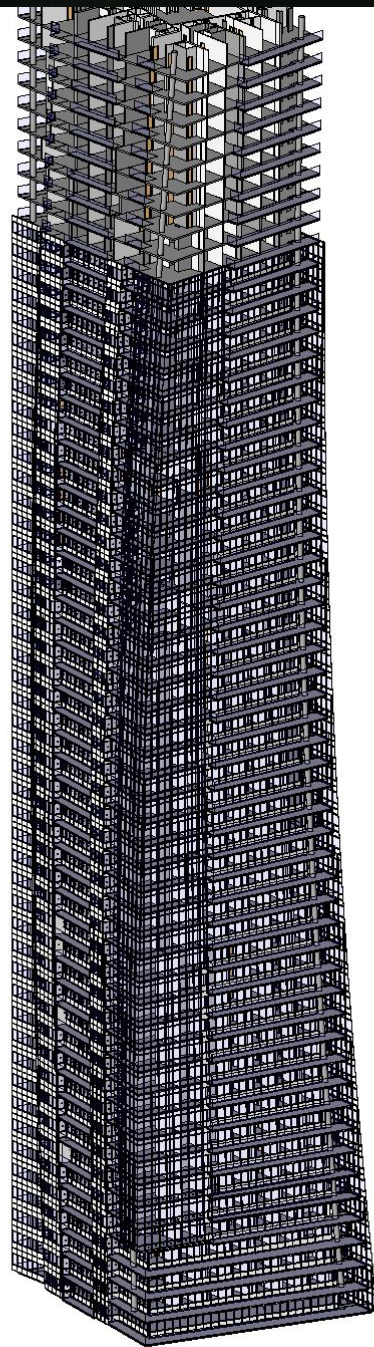
















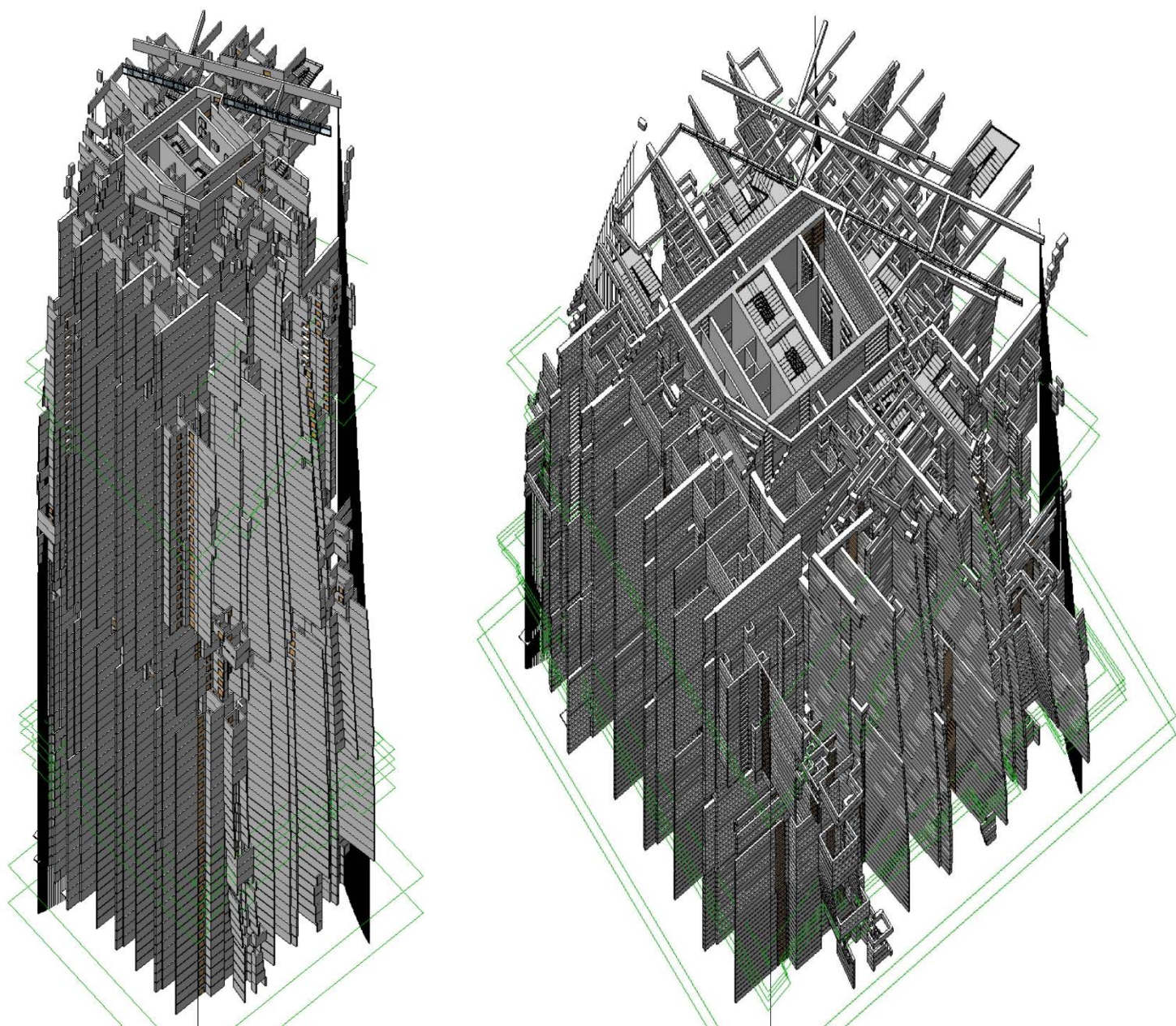




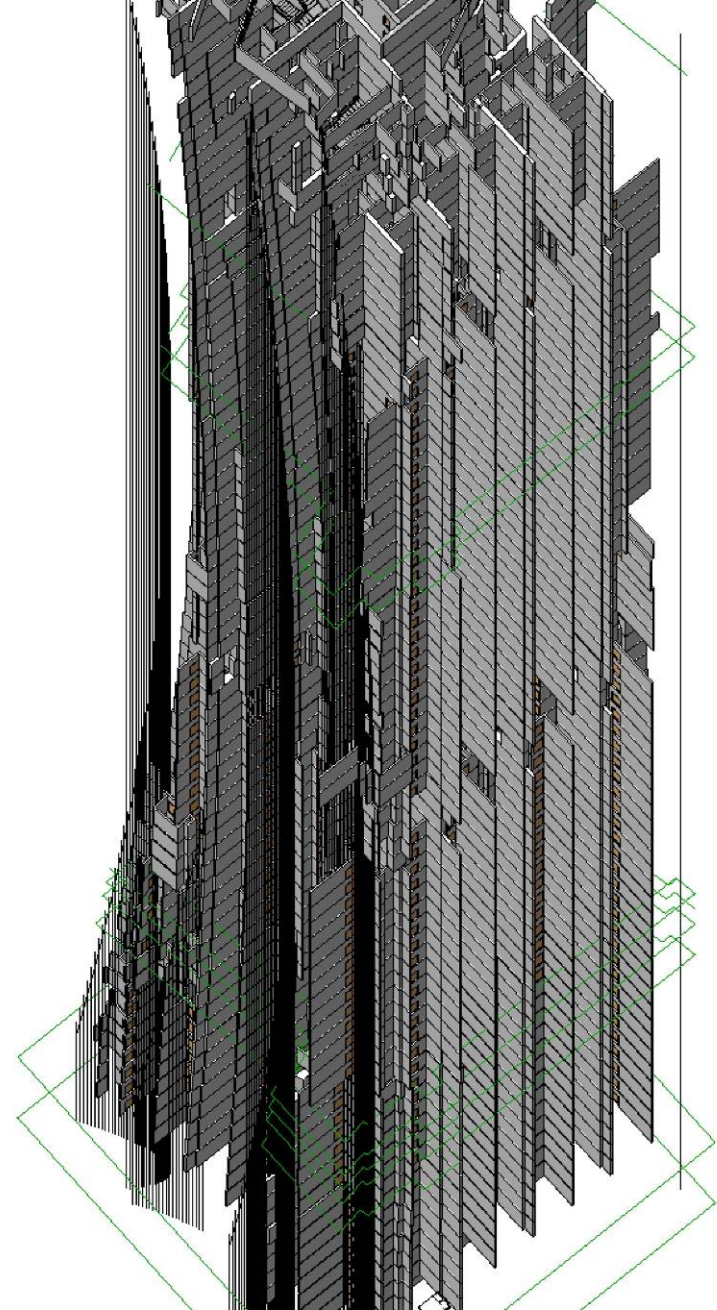
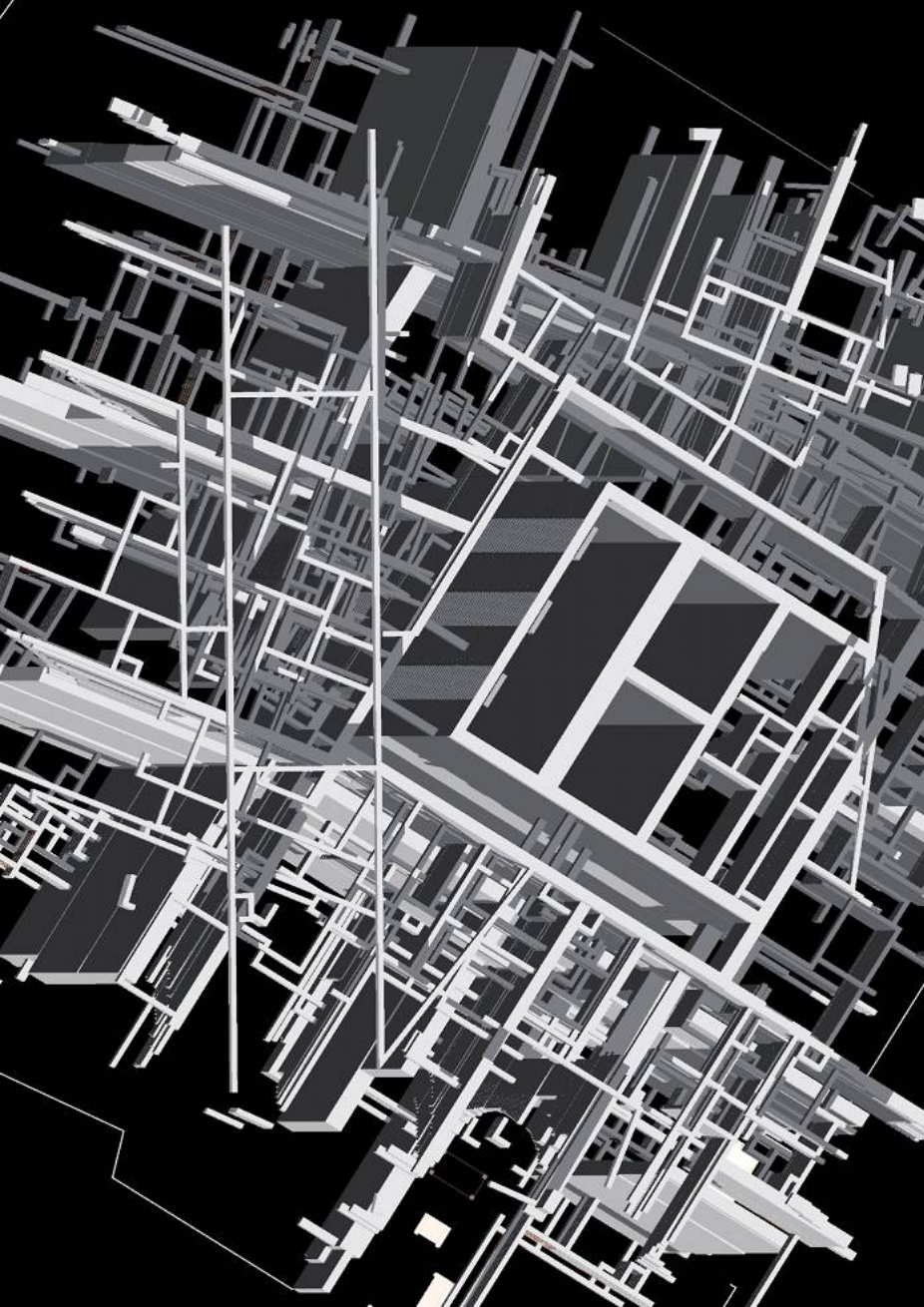




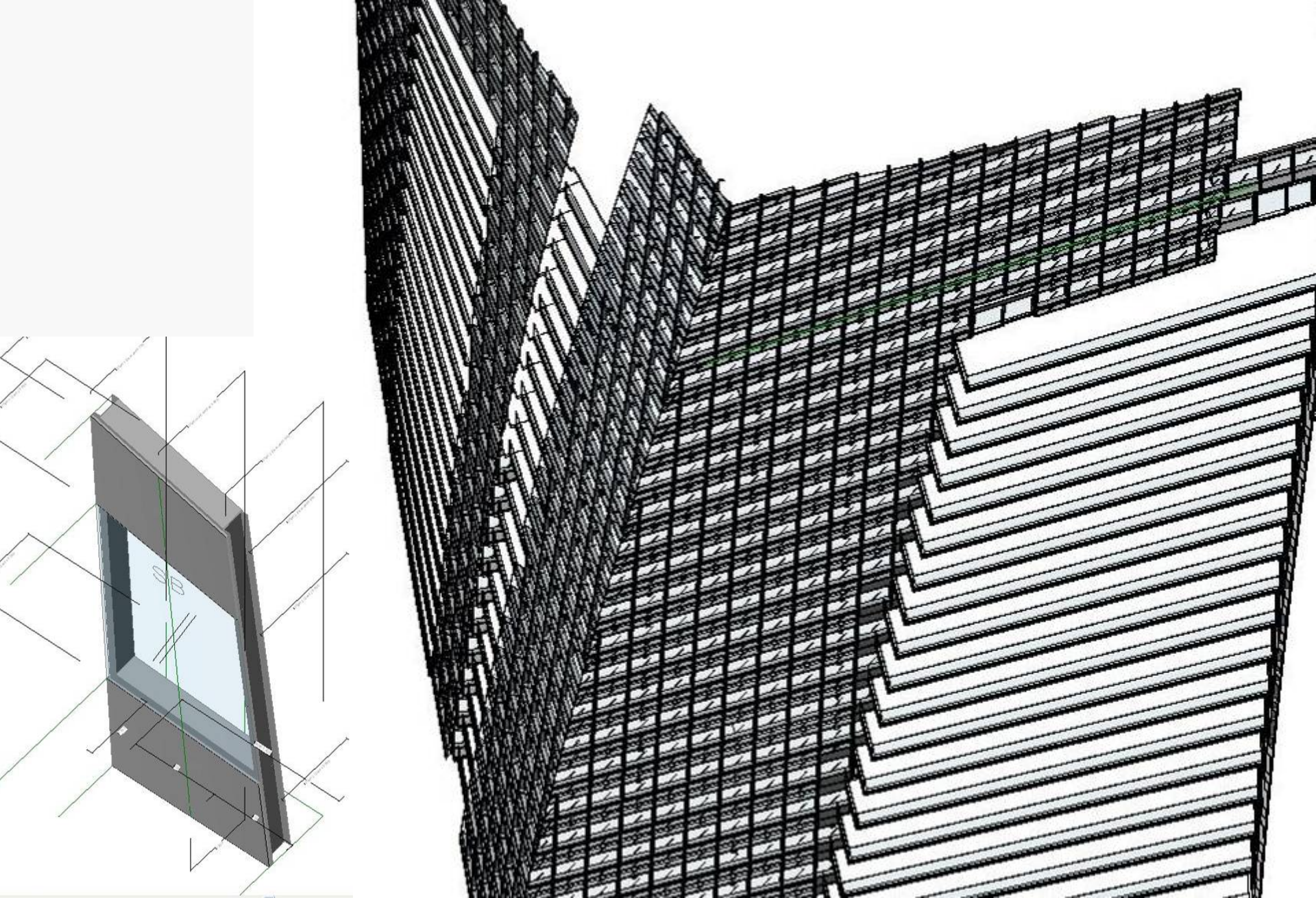




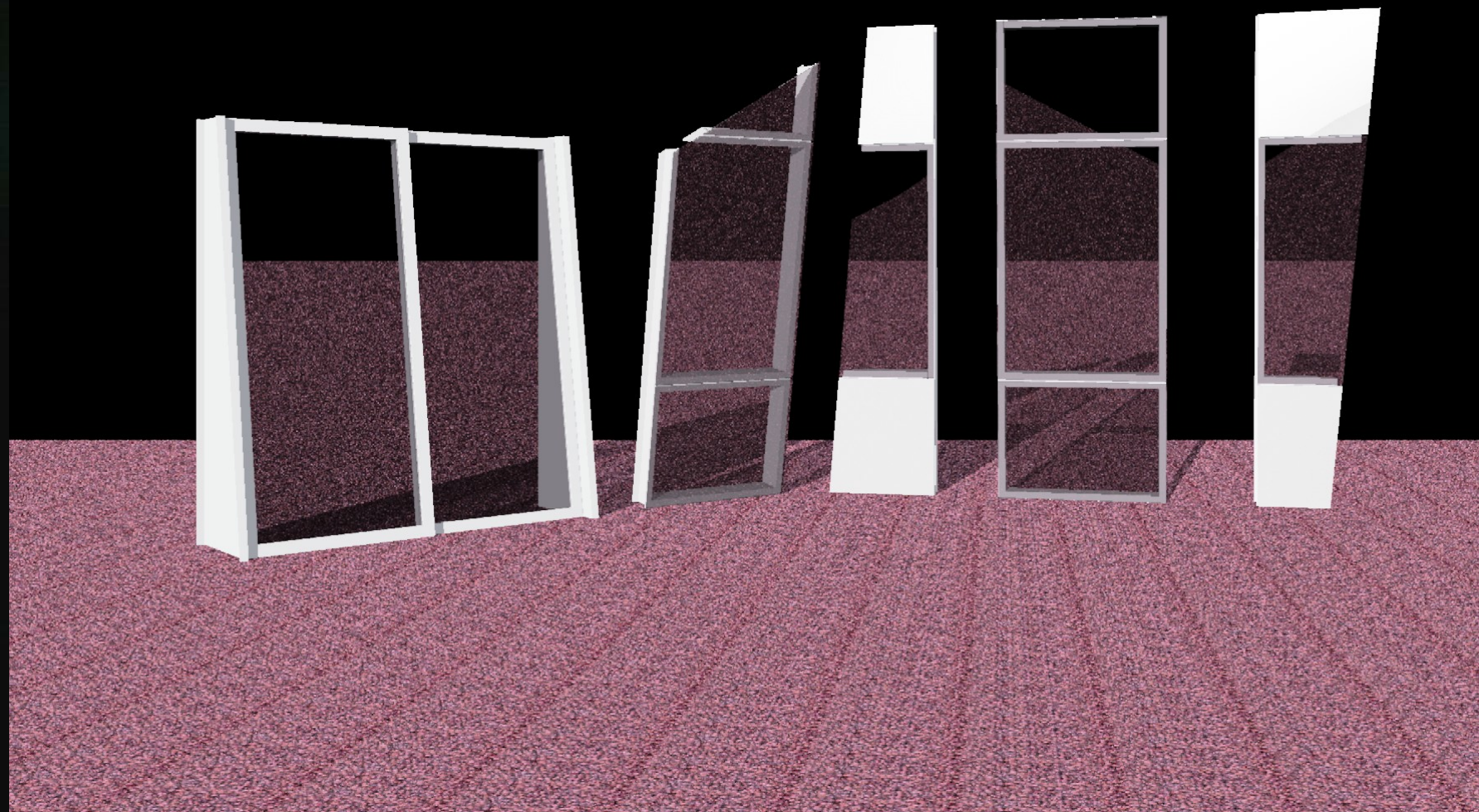
VERTICAL CO-ORDINATION



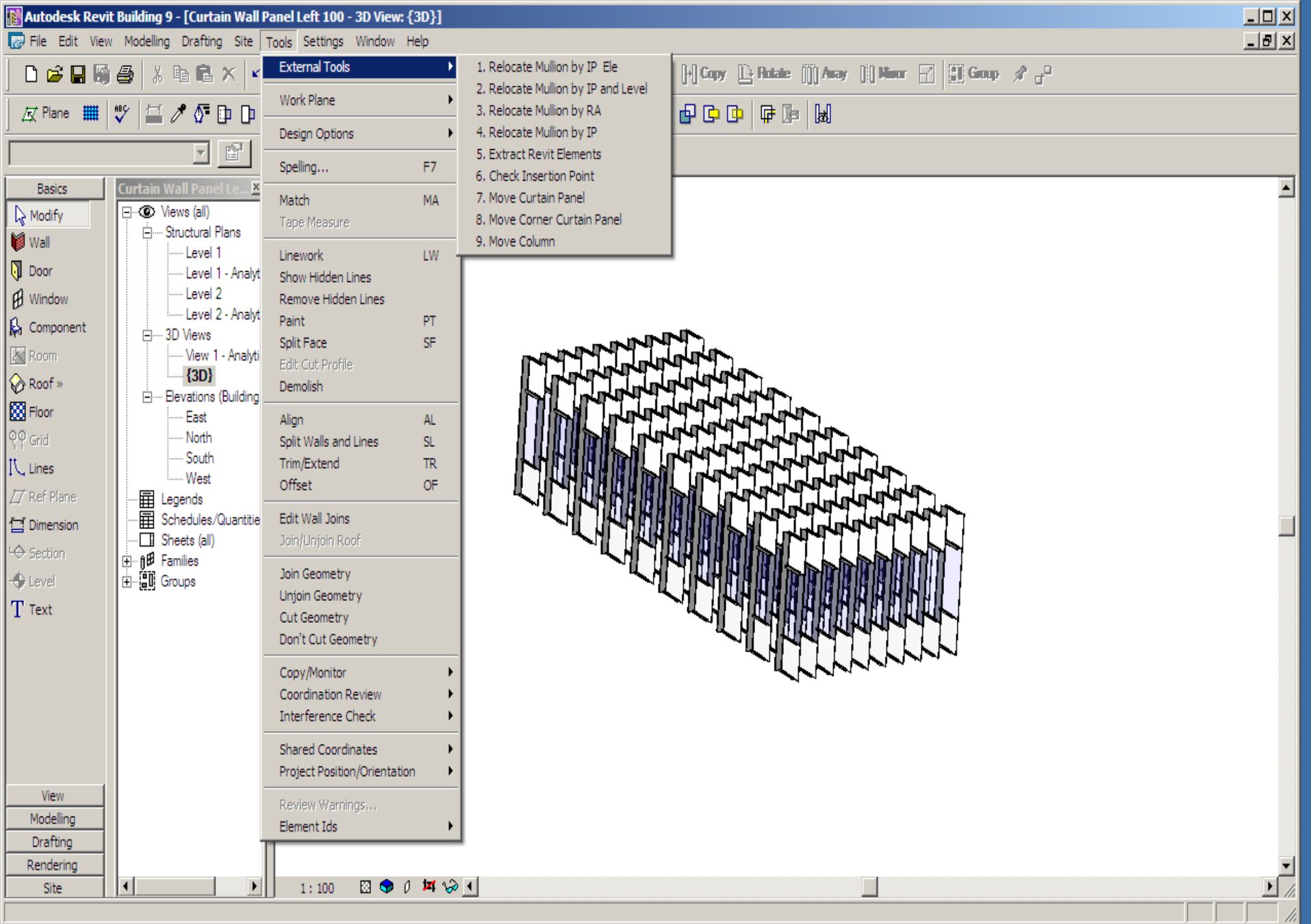
INTERNAL vs EXTERNAL

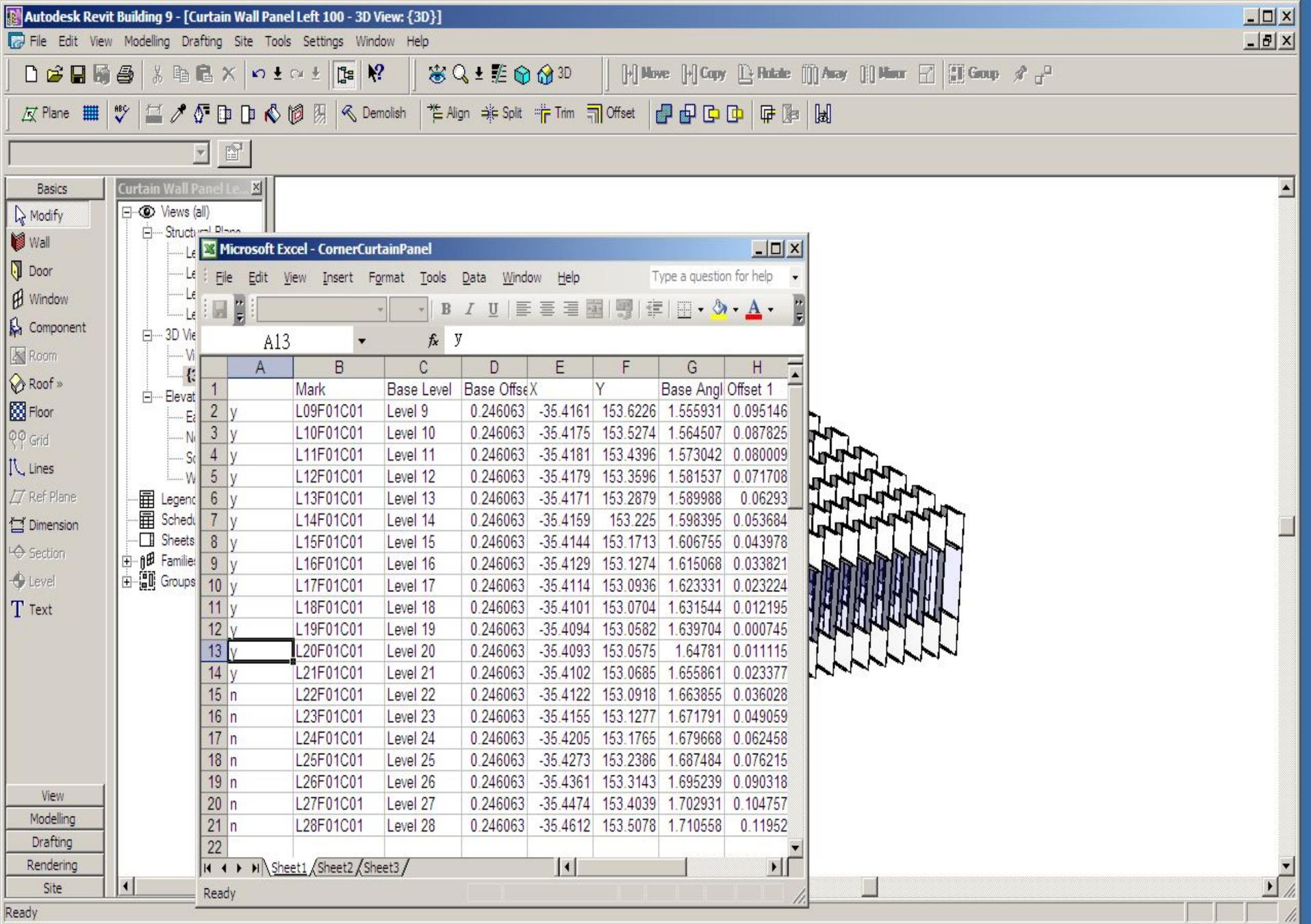


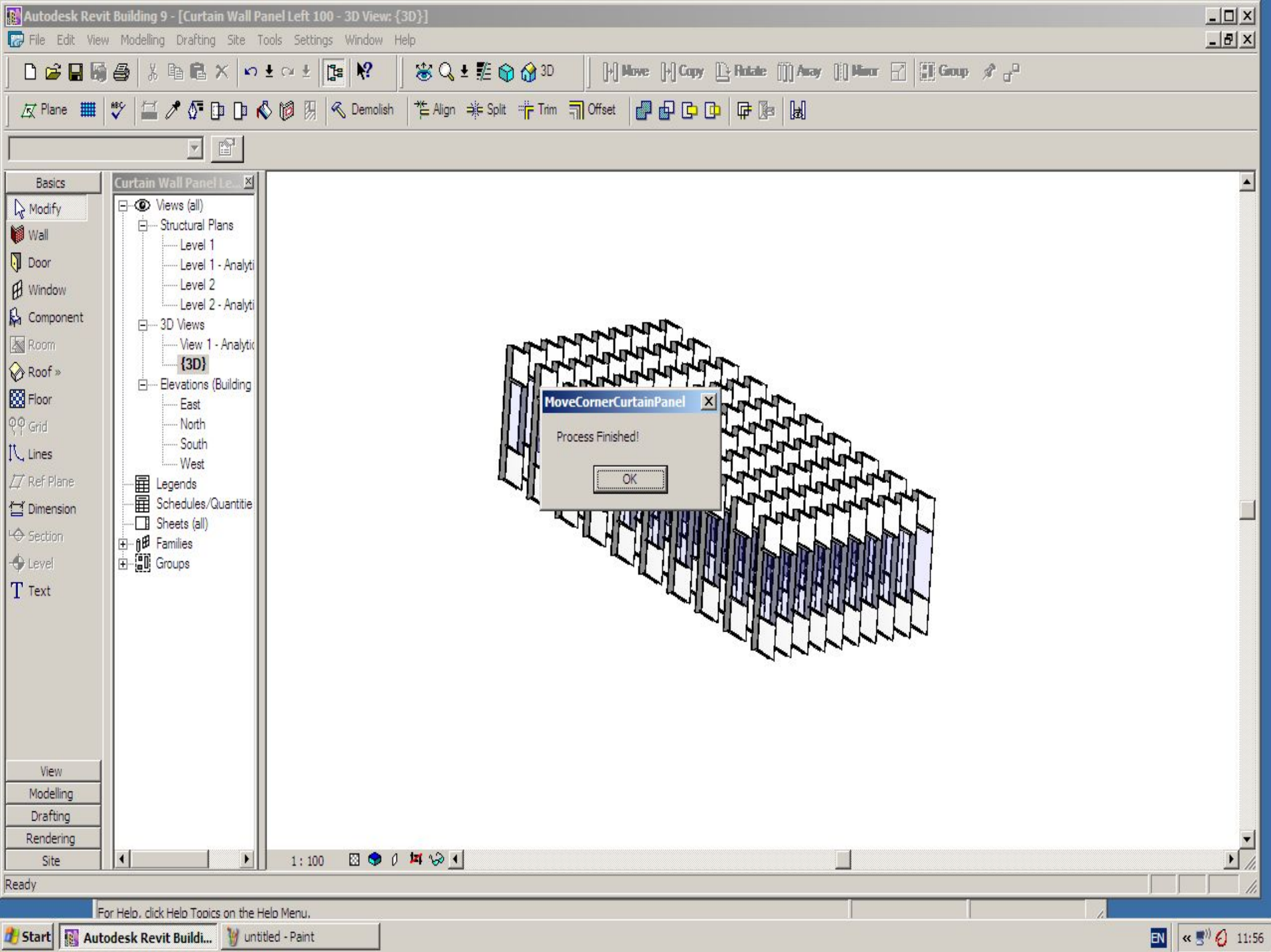
COMPLICATED CURTAIN WALL

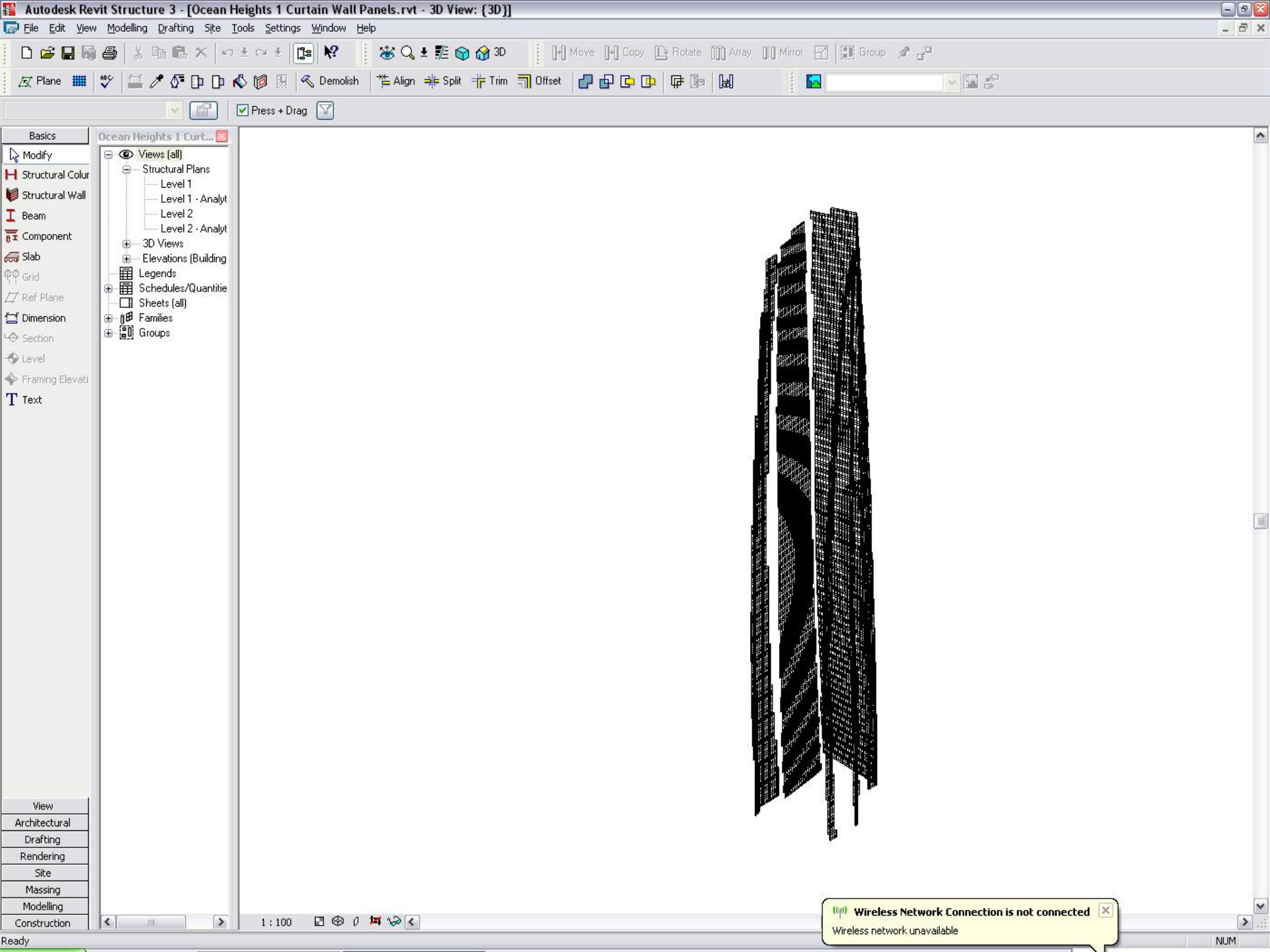


Ref Plane	Level 20	Sliding Door	L71B05D12	Level 71	2550.00		0.00
Dimension	Level 30	Sliding Door	L71B05D15	Level 71	2550.00		0.00
Section	Level 40	Sliding Door	L72B01D02	Level 72	2400.00		0.00
Level	Level 50	Sliding Door	L72B02D02	Level 72	2500.00		0.00
Framing Elevati	Level 60	Sliding Door	L72B04D01	Level 72	1800.00		0.00
Text	Level 65	Sliding Door	L72B05D03	Level 72	2550.00		0.00
	Level 70	Sliding Door	L72B05D05	Level 72	2550.00		0.00
	Level 75	Sliding Door	L72B05D08	Level 72	2550.00		0.00
	3D Views	Sliding Door	L72B05D10	Level 72	2550.00		0.00
	3D View 1	Sliding Door	L72B05D12	Level 72	2550.00		0.00
	3D View 2	Sliding Door	L72B05D15	Level 72	2550.00		0.00
	3D View 3	Sliding Door	L73B01D02	Level 73	2400.00		0.00
	3D View 4	Sliding Door	L73B02D02	Level 73	2500.00		0.00
	3D View 5	Sliding Door	L73B04D01	Level 73	1700.00		0.00
	3D View 6	Sliding Door	L73B05D03	Level 73	2550.00		0.00
	Copy of 3D V	Sliding Door	L73B05D05	Level 73	2550.00		0.00
	View 1 - Ana	Sliding Door	L73B05D08	Level 73	2550.00		0.00
	{3D}	Sliding Door	L73B05D10	Level 73	2550.00		0.00
	Elevations (Build	Sliding Door	L73B05D12	Level 73	2550.00		0.00
	East	Sliding Door	L73B05D15	Level 73	2550.00		0.00
	North	Sliding Door	L74B01D02	Level 74	2400.00		0.00
	South	Sliding Door	L74B02D02	Level 74	2500.00		0.00
	West	Sliding Door	L74B04D01	Level 74	1600.00		0.00
	Sections (Building	Sliding Door	L74B05D03	Level 74	2550.00		0.00
	Section 1	Sliding Door	L74B05D05	Level 74	2550.00		0.00
	Section 2	Sliding Door	L74B05D08	Level 74	2550.00		0.00
	Section 3	Sliding Door	L74B05D10	Level 74	2550.00		0.00
	Legends	Sliding Door	L74B05D12	Level 74	2550.00		0.00
	Schedules/Quan	Sliding Door	L74B05D15	Level 74	2550.00		0.00
	Multi-Category S	Sliding Door	L75B01D02	Level 75	2400.00		0.00
	Multi-Category S	Sliding Door	L75B02D02	Level 75	2500.00		0.00
	Sheets (all)	Sliding Door	L76B01D02	Level 76	2400.00		0.00
	Families	Sliding Door	L76B02D02	Level 76	2500.00		0.00
	Annotation Symb	Sliding Door	L77B01D02	Level 77	2400.00		0.00
	Ceilings	Sliding Door	L77B02D01	Level 77	2426.17		0.00
	Curtain Panels	Sliding Door	L78B01D02	Level 78	2400.00		0.00
	Curtain Systems	Sliding Door	L78B02D01	Level 78	2203.01		0.00
	Curtain Wall Mul	Sliding Door	L79B01D02	Level 79	2400.00		0.00
	Detail Items	Sliding Door	L79B02D01	Level 79	1974.15		0.00
	Doors	Sliding Door: 649					
	Floors	Sliding Door to Replace CW Pan	L10F01N10	Level 10	1255.77		-123.24
	Furniture	Sliding Door to Replace CW Panel: 1					
		Grand total: 9740					

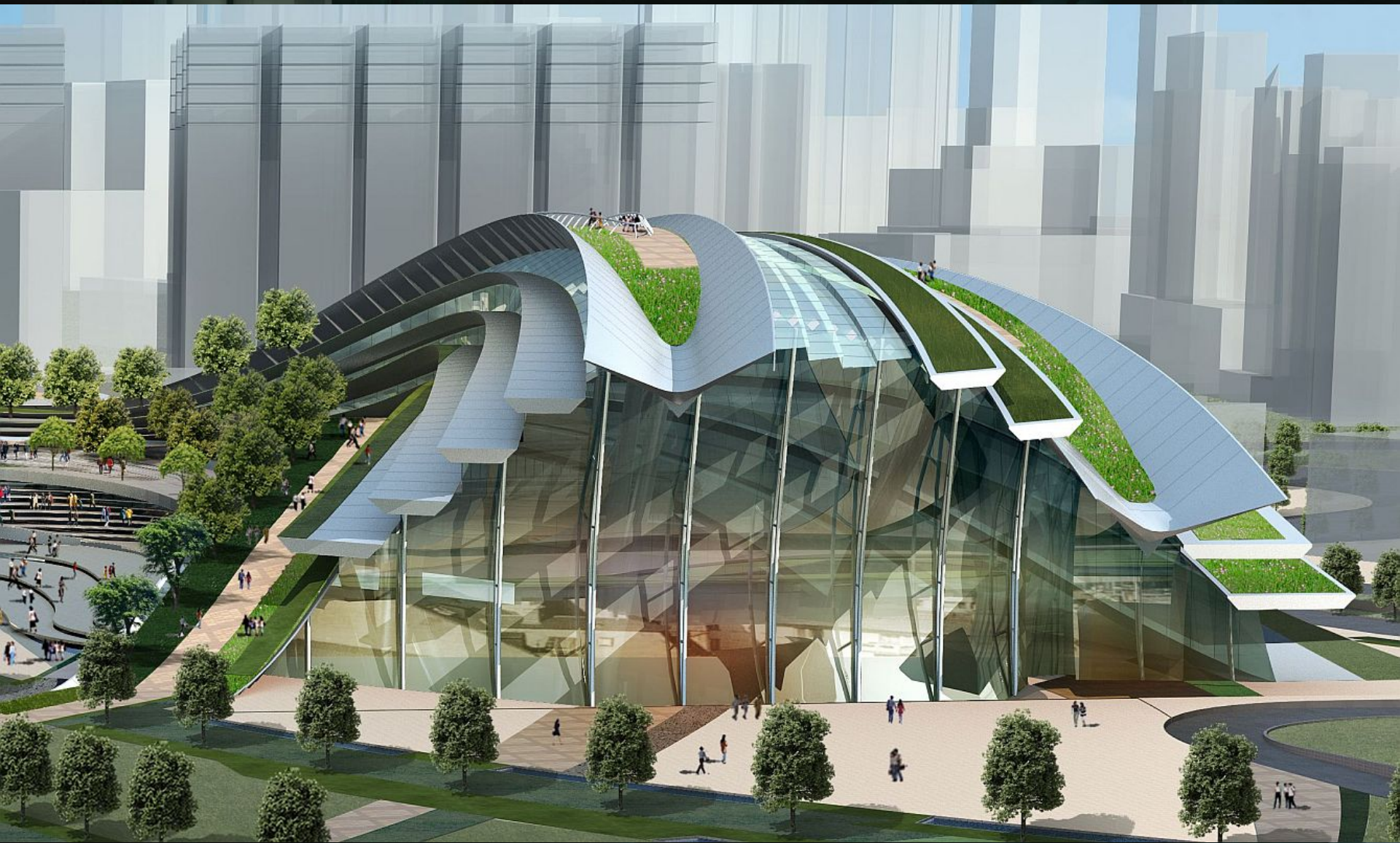


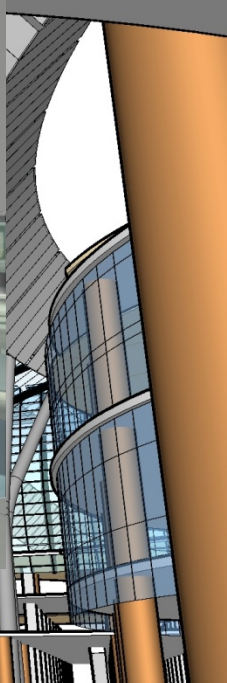
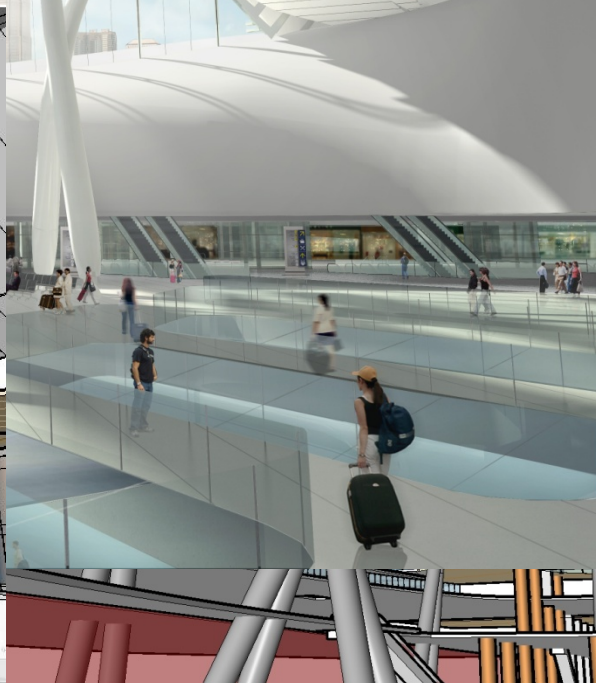
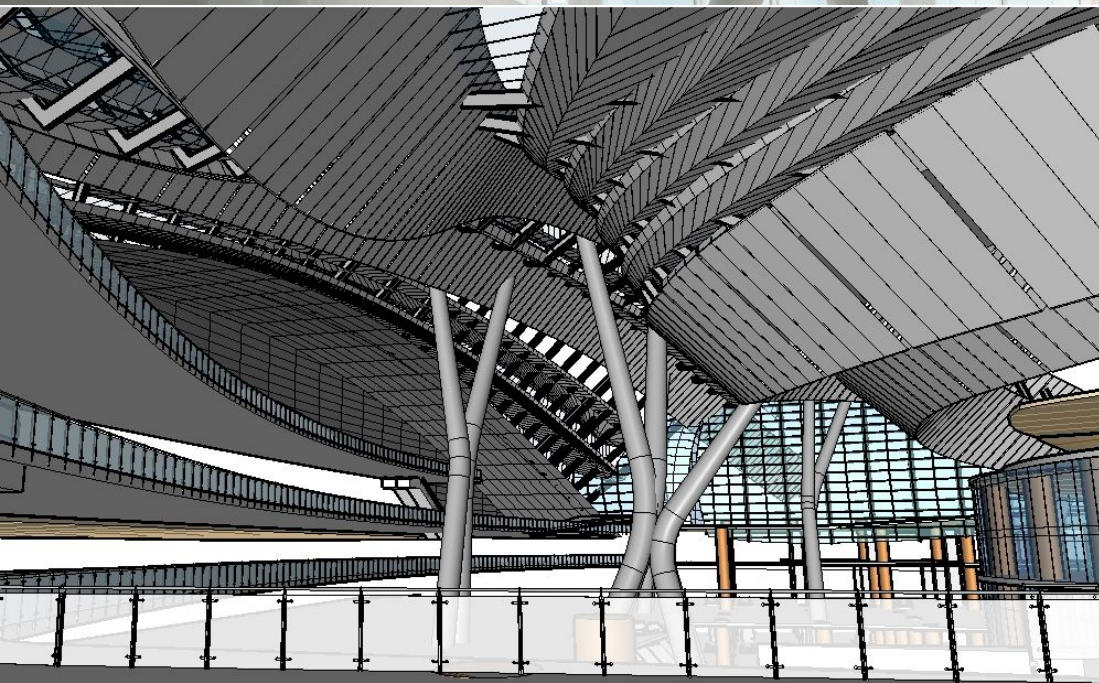
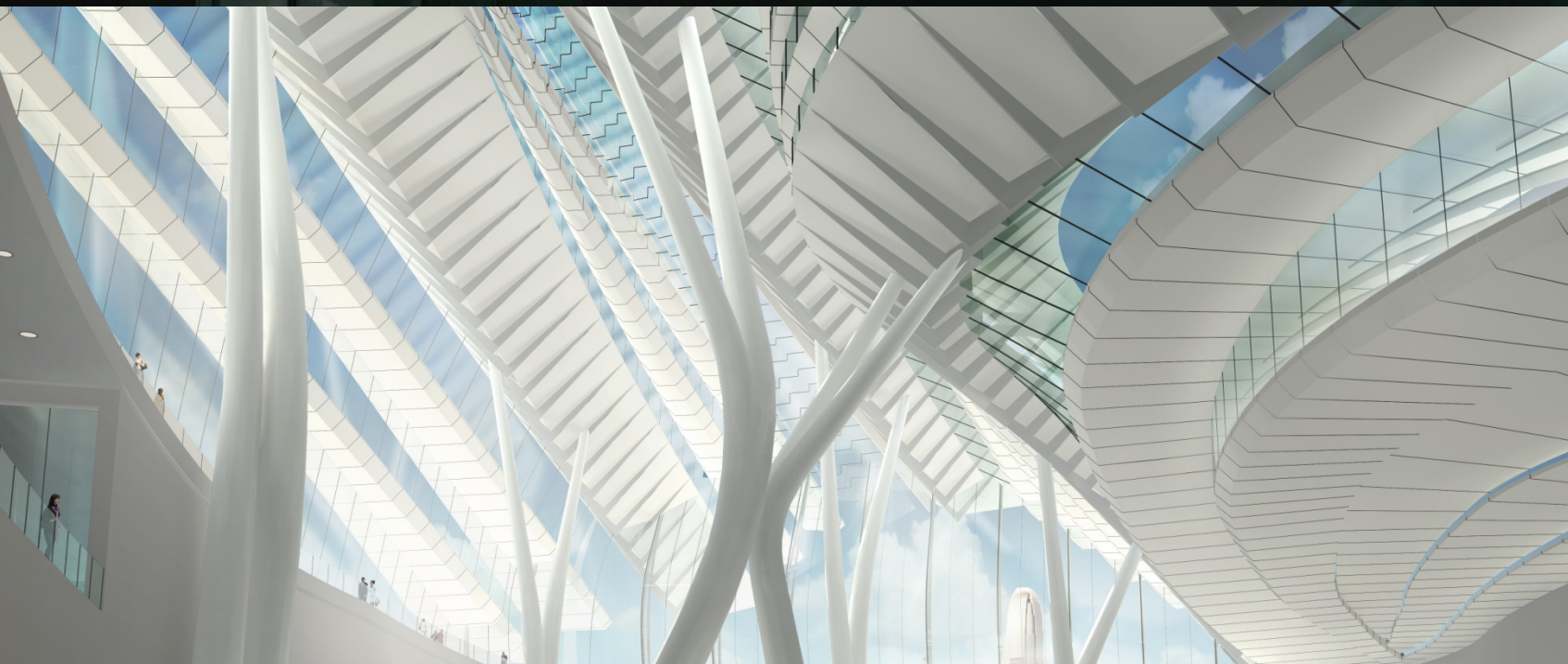


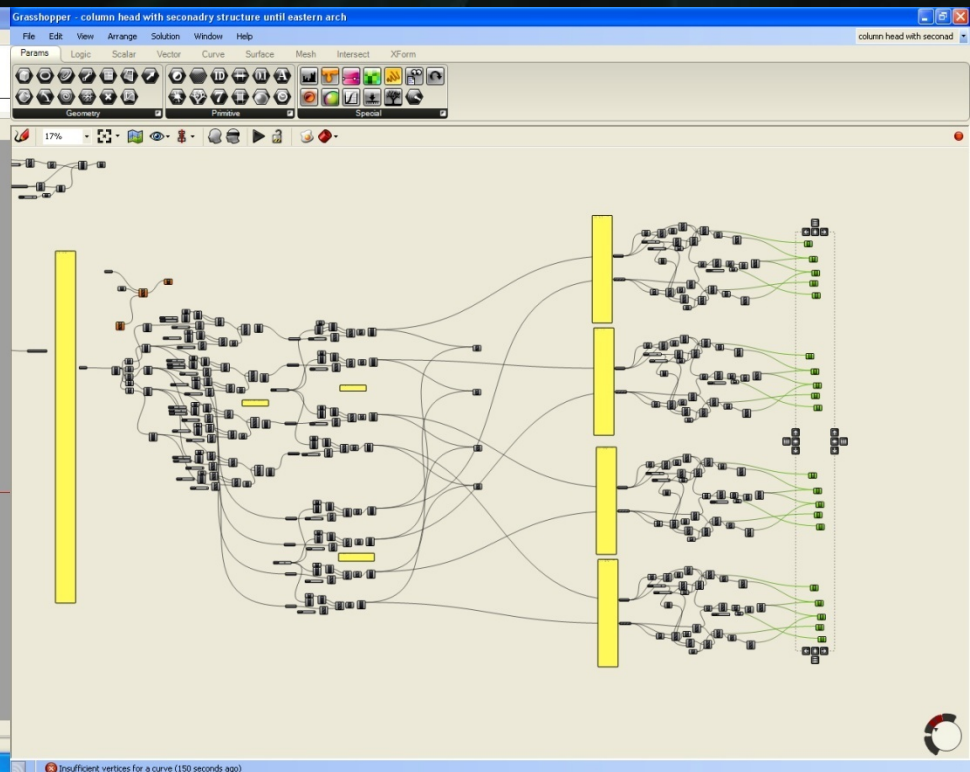
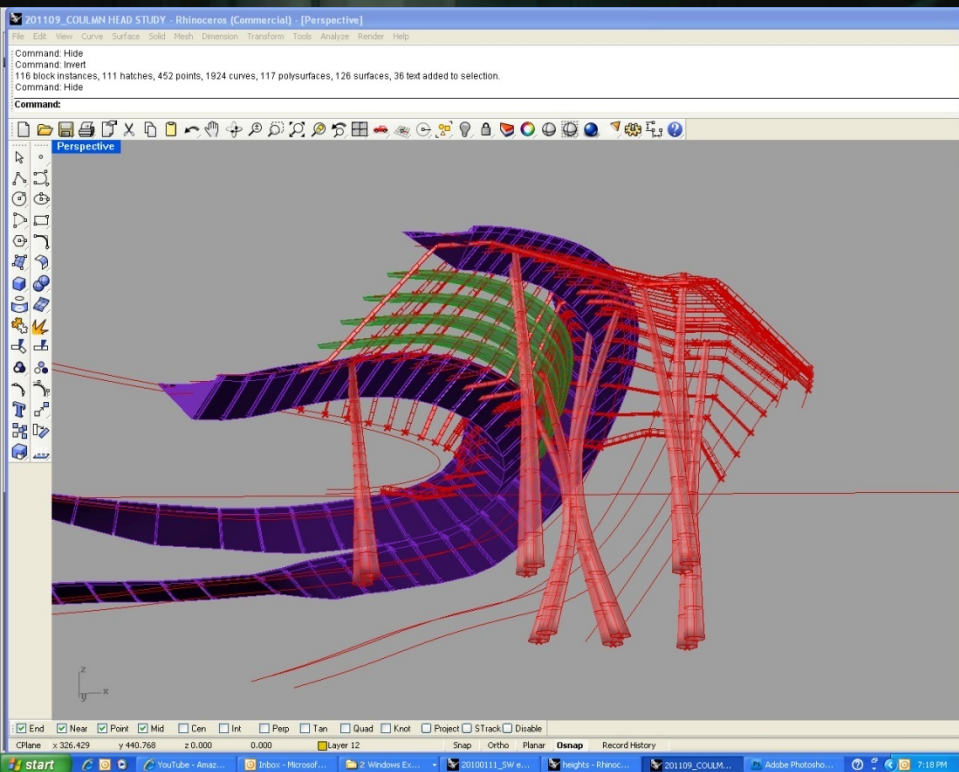


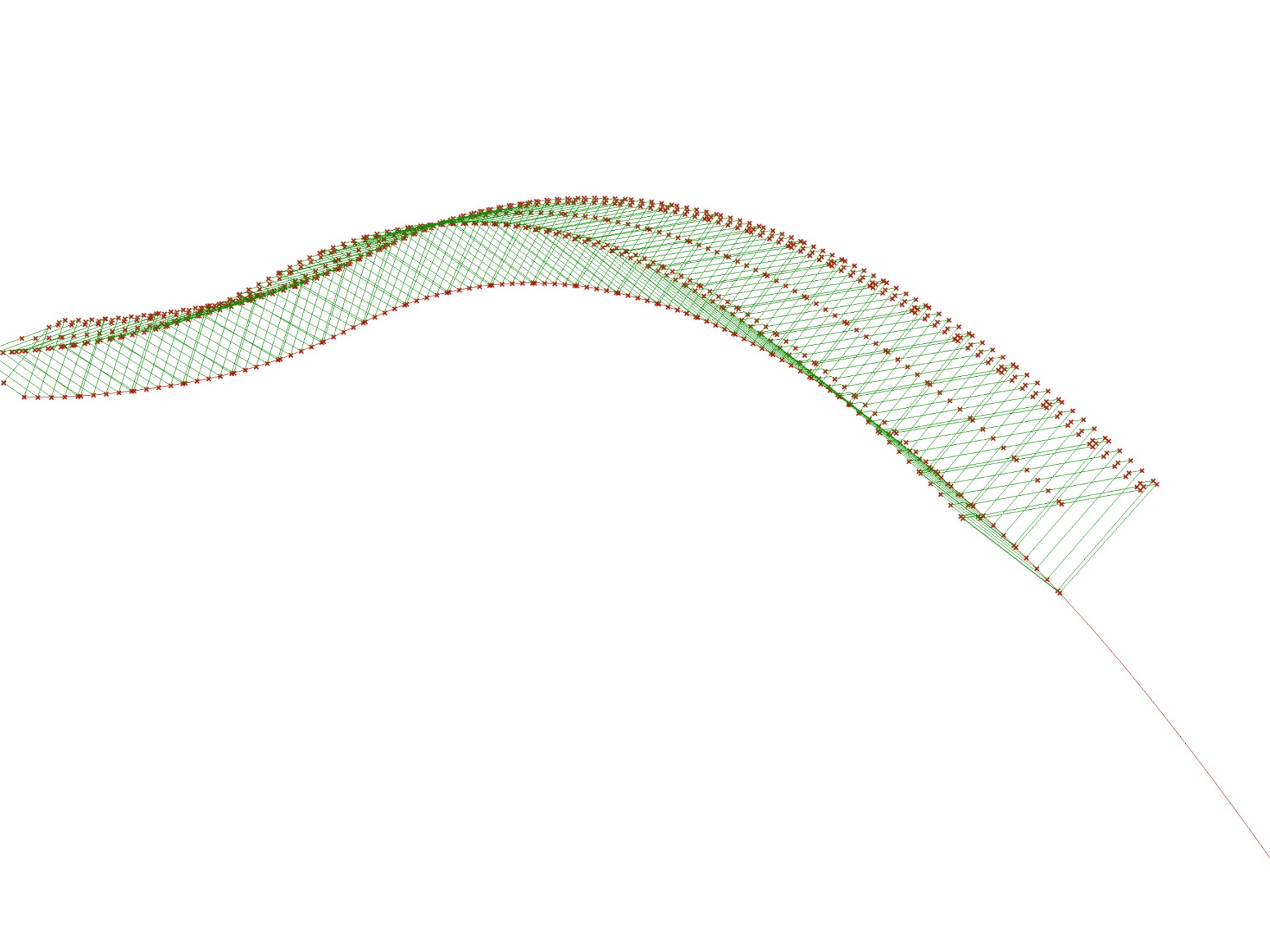


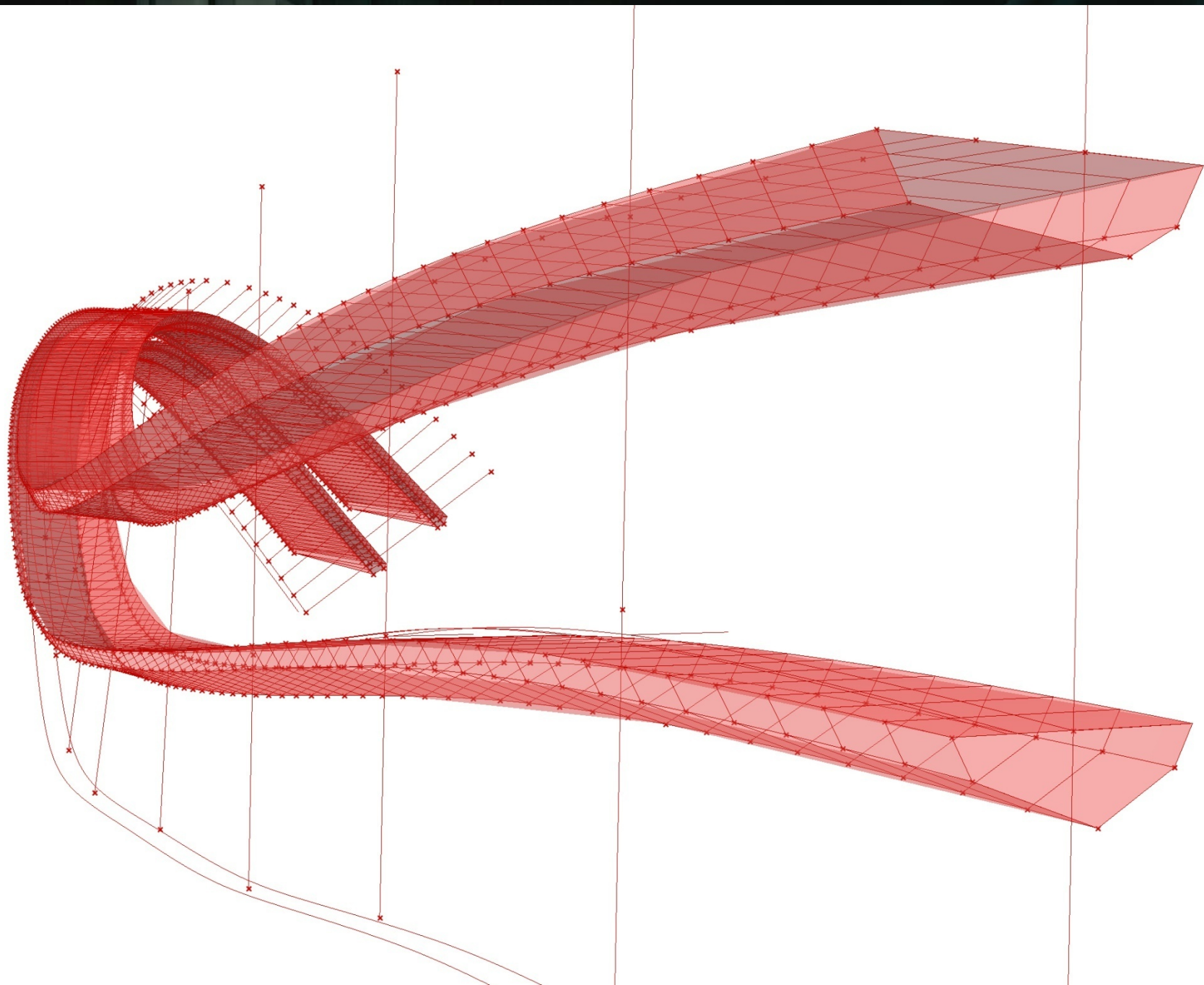













```

    {
        case 'x':
            p[index].x = System.Convert.ToDouble(para.AsValueString());
            break;
        case 'y':
            p[index].y = System.Convert.ToDouble(para.AsValueString());
            break;
        case 'z':
            p[index].z = System.Convert.ToDouble(para.AsValueString());
            break;
        default:
            MessageBox.Show("Wrong format of parameter name");
            break;
    }
}

CladdingPanel cl = new CladdingPanel(p, PanelCounter); // new panel created from list of points.
double Area_m2 = cl.PanelArea / 1000000; // division by 1000000 to get area in m2 from mm2

//current family type parameter is updated with value of Area_m2 ;
document.BeginTransaction();
if( symbol.ParametersMap["Area"].Set(Area_m2) == false )
{
    MessageBox.Show("Wrong parameter type");
}
document.EndTransaction();

ArrayOfPanels.Add(cl); // new panel inserted into the array of panels

output += cl.UniqueNumber + " " + Area_m2 + " " + cl.T_edge[0] + " " + cl.T_edge[1] + " " + cl.T_edge[2] + " " + cl.T_edge[3]

// creating panel objects in space
document.BeginTransaction();
FamilyInstance instance = document.Create.NewFamilyInstance(location, symbol, StructuralType.NonStructural);
document.EndTransaction();
}
//MessageBox.Show(output);

```

C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
## lengt	P01z## lengt	P02x## lengt	P02y## lengt	P02z## lengt	P03x## lengt	P03y## lengt	P03z## lengt	P04x## lengt	P04y## lengt	P04z## lengt	Panel Type##	other##		
24.1138	30997.4089	150034.096	44497.0923	31201.1007	151479.165	44220.6936	29756.4955	151017.994	42846.0425	29553.4116	P3S06P001			
97.0923	31201.1007	150490.205	45872.5015	31400.2904	151935	45597.7674	29955.086	151479.165	44220.6936	29756.4955	P3S06P002			
72.5015	31400.2904	150940.93	47250.3052	31594.9821	152385.473	46977.2334	30149.1841	151935	45597.7674	29955.086	P3S06P003			
50.3052	31594.9821	151386.267	48630.4698	31785.1616	152830.57	48359.0618	30338.7828	152385.473	46977.2334	30149.1841	P3S06P004			
30.4698	31785.1616	151474.689	48906.7825	31822.6539	152918.944	48635.7079	30376.1616	152830.57	48359.0618	30338.7828	P3S06P005			
06.7825	31822.6539	151913.575	50289.7323	32007.3872	153357.585	50020.3276	30560.3477	152918.944	48635.7079	30376.1616	P3S06P006			
89.7323	32007.3872	152347.08	51674.9657	32187.576	153790.836	51407.2369	30740.0246	153357.585	50020.3276	30560.3477	P3S06P007			
74.9657	32187.576	152775.147	53062.4739	32363.2813	154218.667	52796.4316	30915.2314	153790.836	51407.2369	30740.0246	P3S06P008			
62.4739	32363.2813	153197.744	54452.3272	32534.6167	154641.09	54188.0429	31086.0665	154218.667	52796.4316	30915.2314	P3S06P009			
52.3272	32534.6167	153281.603	54730.5766	32568.3694	154724.924	54466.654	31119.7184	154641.09	54188.0429	31086.0665	P3S06P010			
30.5766	32568.3694	153697.624	56123.188	32734.5715	155140.841	55861.1282	31285.4274	154724.924	54466.654	31119.7184	P3S06P011			
123.188	32734.5715	154108.128	57517.7498	32896.4211	155551.199	57257.4509	31446.8027	155140.841	55861.1282	31285.4274	P3S06P012			
17.7498	32896.4211	154513.02	58914.0007	33053.6684	155955.863	58655.1793	31603.5689	155551.199	57257.4509	31446.8027	P3S06P013			
14.0007	33053.6684	154912.275	60311.9726	33206.0604	156354.833	60054.3601	31755.4605	155955.863	58655.1793	31603.5689	P3S06P014			
11.9726	33206.0604	154991.455	60591.8003	33235.9403	156433.956	60334.4167	31785.2395	156354.833	60054.3601	31755.4605	P3S06P015			
91.8003	33235.9403	155384.039	61992.164	33382.3144	156826.258	61735.9125	31931.1206	156433.956	60334.4167	31785.2395	P3S06P016			
992.164	33382.3144	155771.104	63394.5402	33523.6095	157213.036	63139.4019	32071.9532	156826.258	61735.9125	31931.1206	P3S06P017			
94.5402	33523.6095	156152.641	64799.0536	33659.8994	157594.329	64545.1147	32207.8035	157213.036	63139.4019	32071.9532	P3S06P018			
99.0536	33659.8994	156528.665	66205.8406	33791.3989	157970.193	65953.318	32338.8909	157594.329	64545.1147	32207.8035	P3S06P019			
05.8406	33791.3989	156603.207	66487.4657	33817.1437	158044.711	66235.2527	32364.5566	157970.193	65953.318	32338.8909	P3S06P020			
87.4657	33817.1437	156972.591	67896.8372	33943.1573	158414.002	67646.2548	32490.1972	158044.711	66235.2527	32364.5566	P3S06P021			
96.8372	33943.1573	157336.329	69307.9002	34064.607	158777.619	69058.83	32611.2857	158414.002	67646.2548	32490.1972	P3S06P022			
07.9002	34064.607	157694.338	70720.5482	34181.3772	159135.5	70472.822	32727.6793	158777.619	69058.83	32611.2857	P3S06P023			
20.5482	34181.3772	158046.558	72134.4265	34293.1711	159487.514	71887.6646	32839.0806	159135.5	70472.822	32727.6793	P3S06P024			
34.4265	34293.1711	158116.297	72417.2914	34314.8748	159557.191	72170.6364	32860.703	159487.514	71887.6646	32839.0806	P3S06P025			
17.2914	34314.8748	158461.474	73832.0687	34419.7934	159901.955	73585.5129	32965.2043	159557.191	72170.6364	32860.703	P3S06P026			
32.0687	34419.7934	158800.798	75247.6674	34518.1928	160240.723	75000.5299	33063.172	159901.955	73585.5129	32965.2043	P3S06P027			
47.6674	34518.1928	159134.34	76664.522	34609.6099	160573.676	76416.4942	33154.1589	160240.723	75000.5299	33063.172	P3S06P028			
664.522	34609.6099	159462.105	78082.6818	34693.7628	160900.837	77833.534	33237.8995	160573.676	76416.4942	33154.1589	P3S06P029			
82.6818	34693.7628	159526.964	78366.4655	34709.6976	160965.574	78117.0662	33253.7554	160900.837	77833.534	33237.8995	P3S06P030			
66.4655	34709.6976	159847.917	79786.6698	34784.8936	161285.941	79536.0393	33328.5833	160965.574	78117.0662	33253.7554	P3S06P031			
86.6698	34784.8936	160163.369	81209.1412	34852.7734	161600.864	80957.3769	33396.1369	161285.941	79536.0393	33328.5833	P3S06P032			
09.1412	34852.7734	160473.329	82633.6703	34913.5237	161910.348	82380.8678	33456.5958	161600.864	80957.3769	33396.1369	P3S06P033			

```

public bool CompareEdgesWith(EdgeGroup otherPanel, double tolerance)
{
    if
    (
        Math.Abs(nextPanel.G_edge[0] - G_edge[0]) <= tolerance
        &&
        Math.Abs(nextPanel.G_edge[1] - G_edge[1]) <= tolerance
        &&
        Math.Abs(nextPanel.G_edge[2] - G_edge[2]) <= tolerance
        &&
        Math.Abs(nextPanel.G_edge[3] - G_edge[3]) <= tolerance
        &&
        Math.Abs(nextPanel.G_diagonal_1 - G_diagonal_1) <= tolerance * Math.Sqrt(2)
    )
    { return true; }
    else
    { return false; }

}

}

#endregion

public class Group
{
    public int GroupNumber;
    public double[] Edge; //array of lengths of groups's edges.
    public double Diagonal; //length of group's diagonal.
    public double Area; //area of a grouped panel;
}

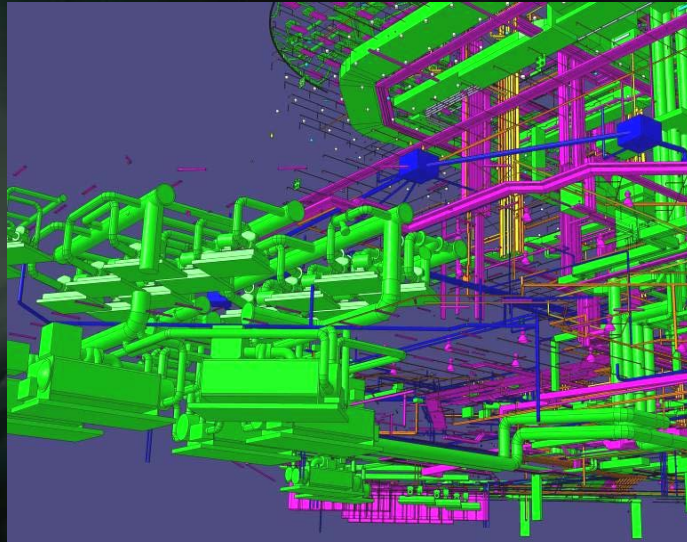
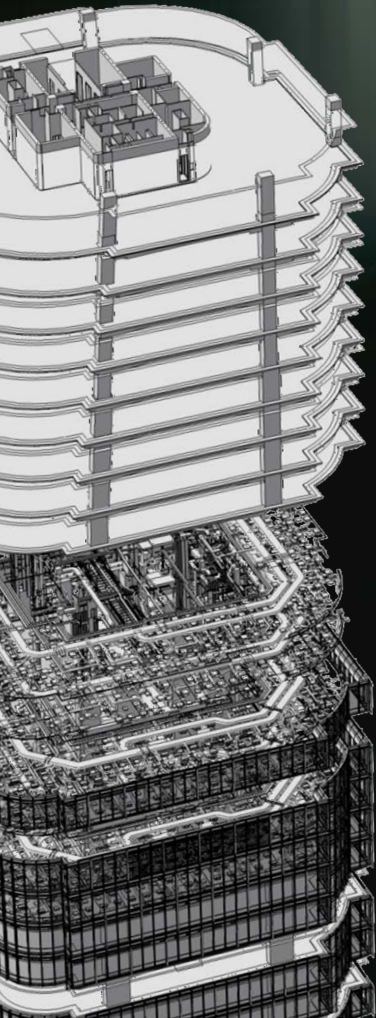
double toFeet(double value) //conversion of linear sizes for family instances
{
    return value * FACTOR_MMtoFT;
}

double toSqFeet(double value) //conversion of areal sizes for family instances
{

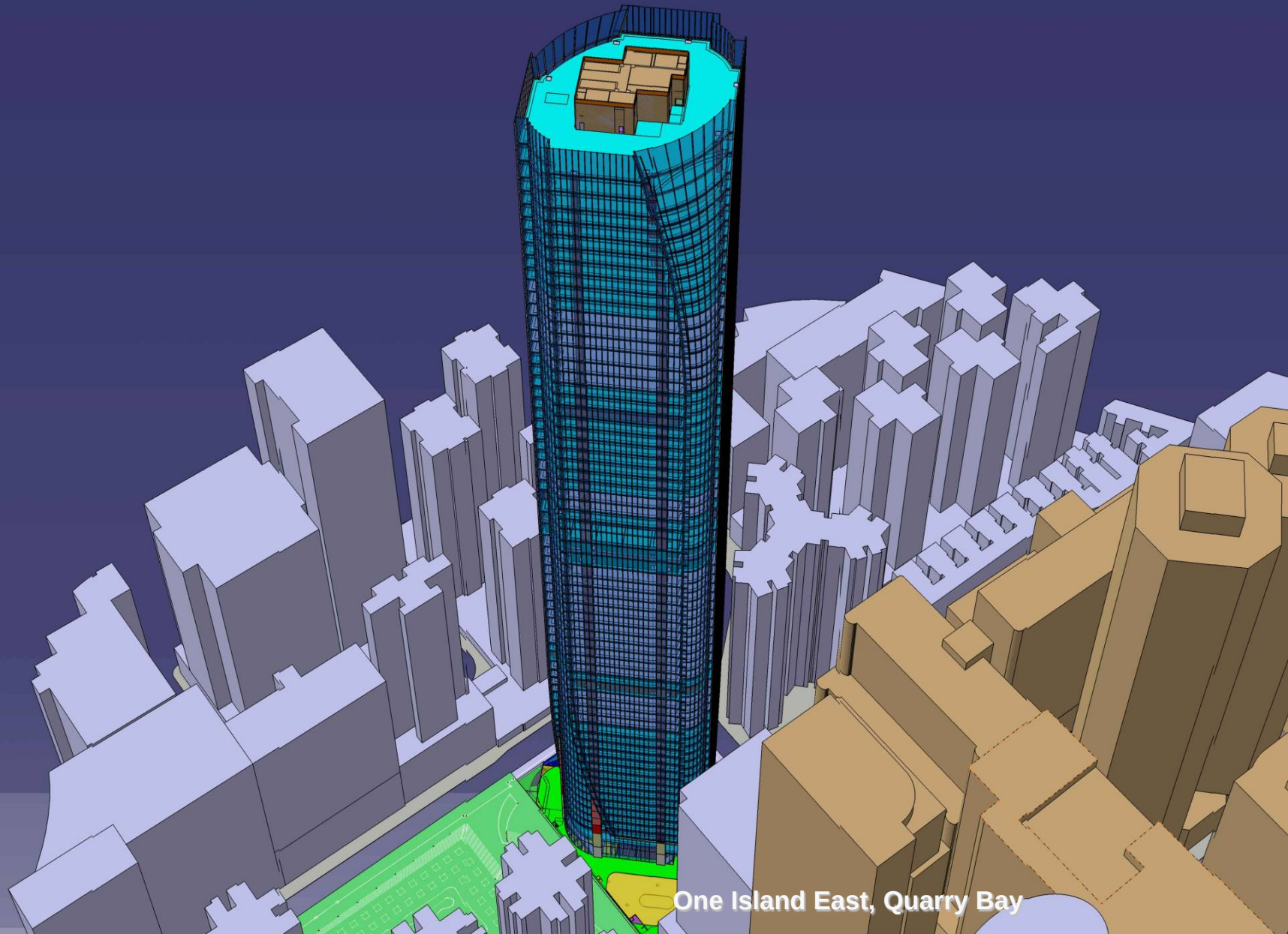
```


Construction

- One Island East

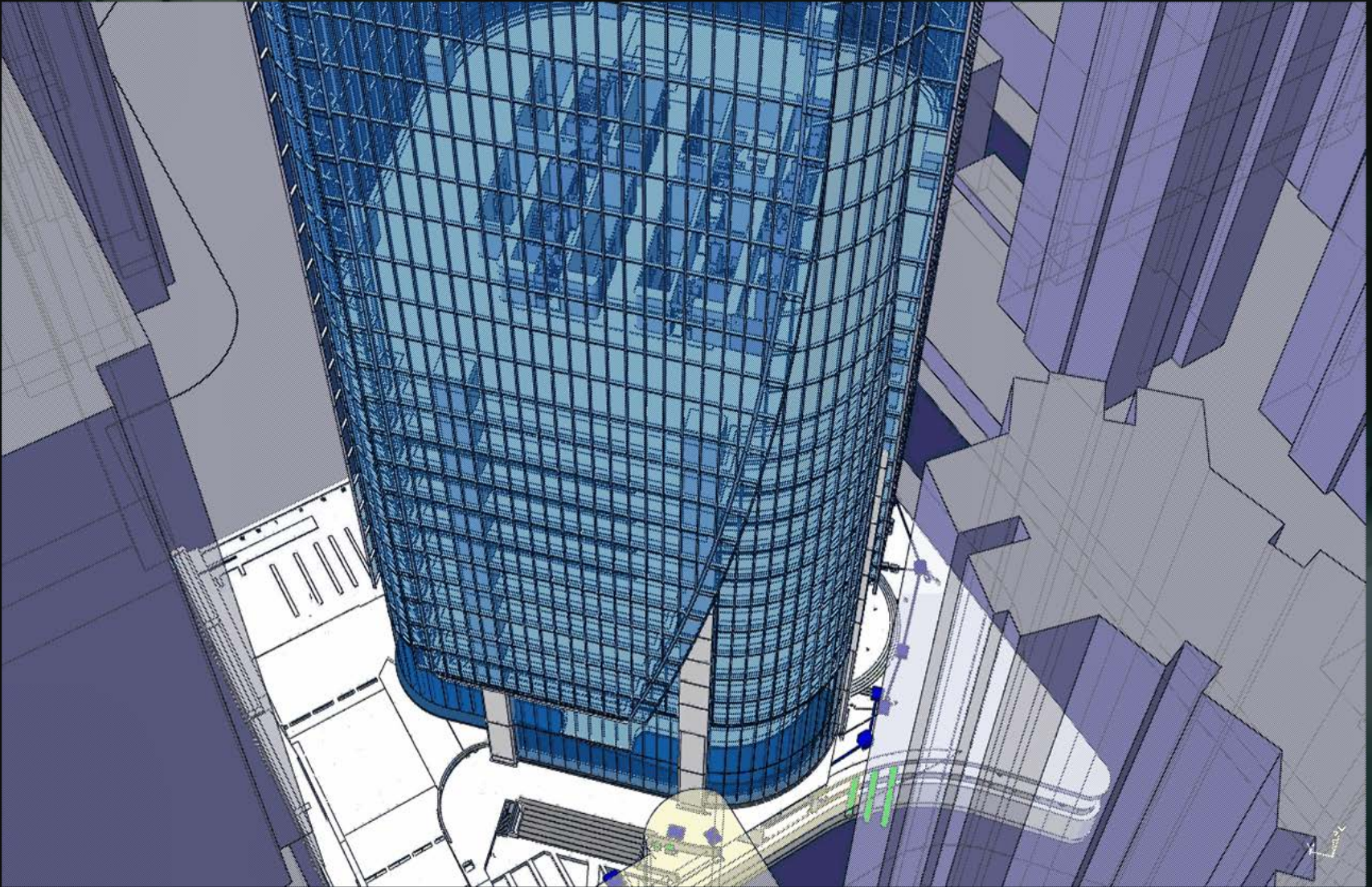


Tender Model by Consultants



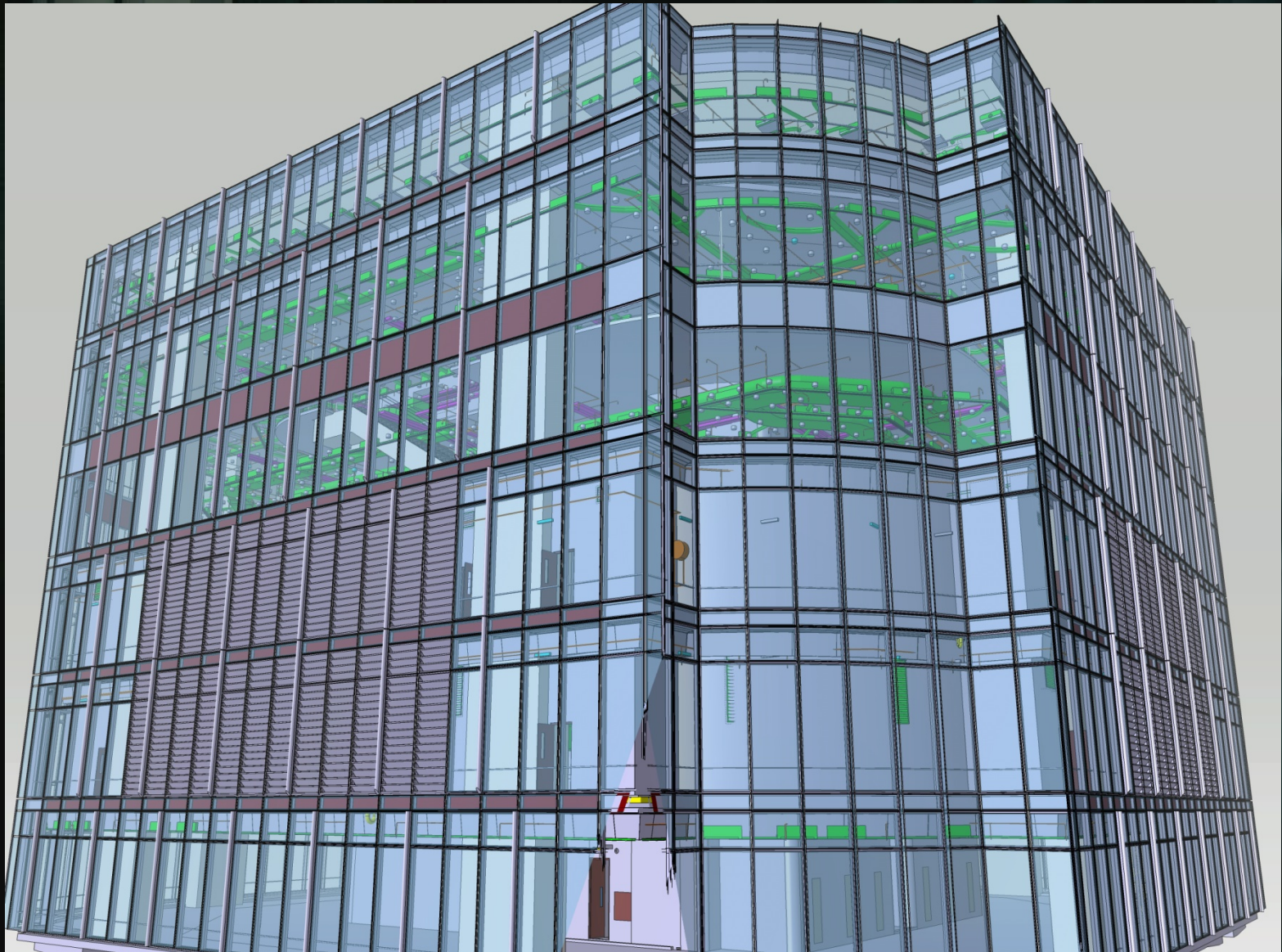
One Island East, Quarry Bay

One Island East

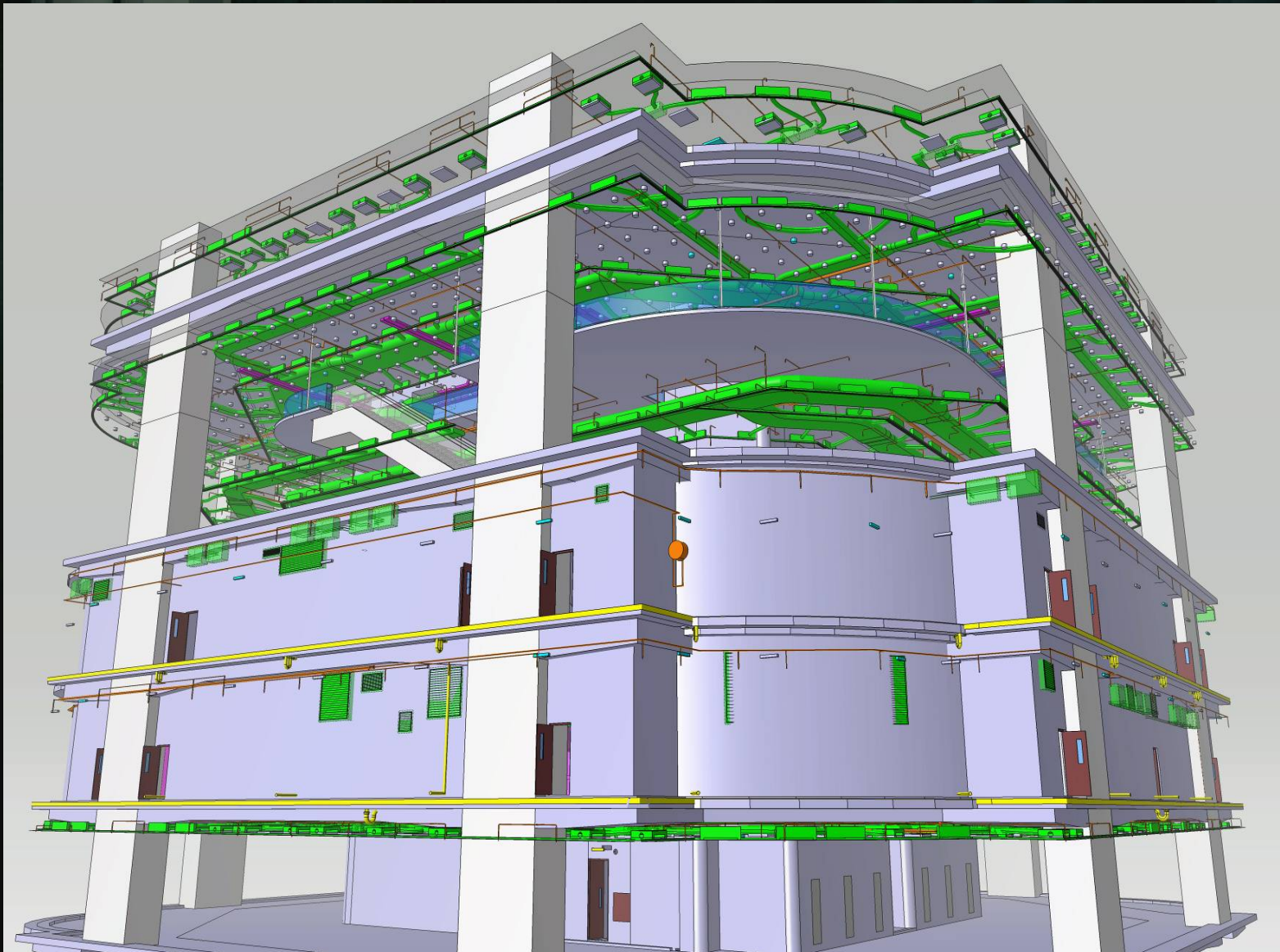


BIM Architectural Configuration

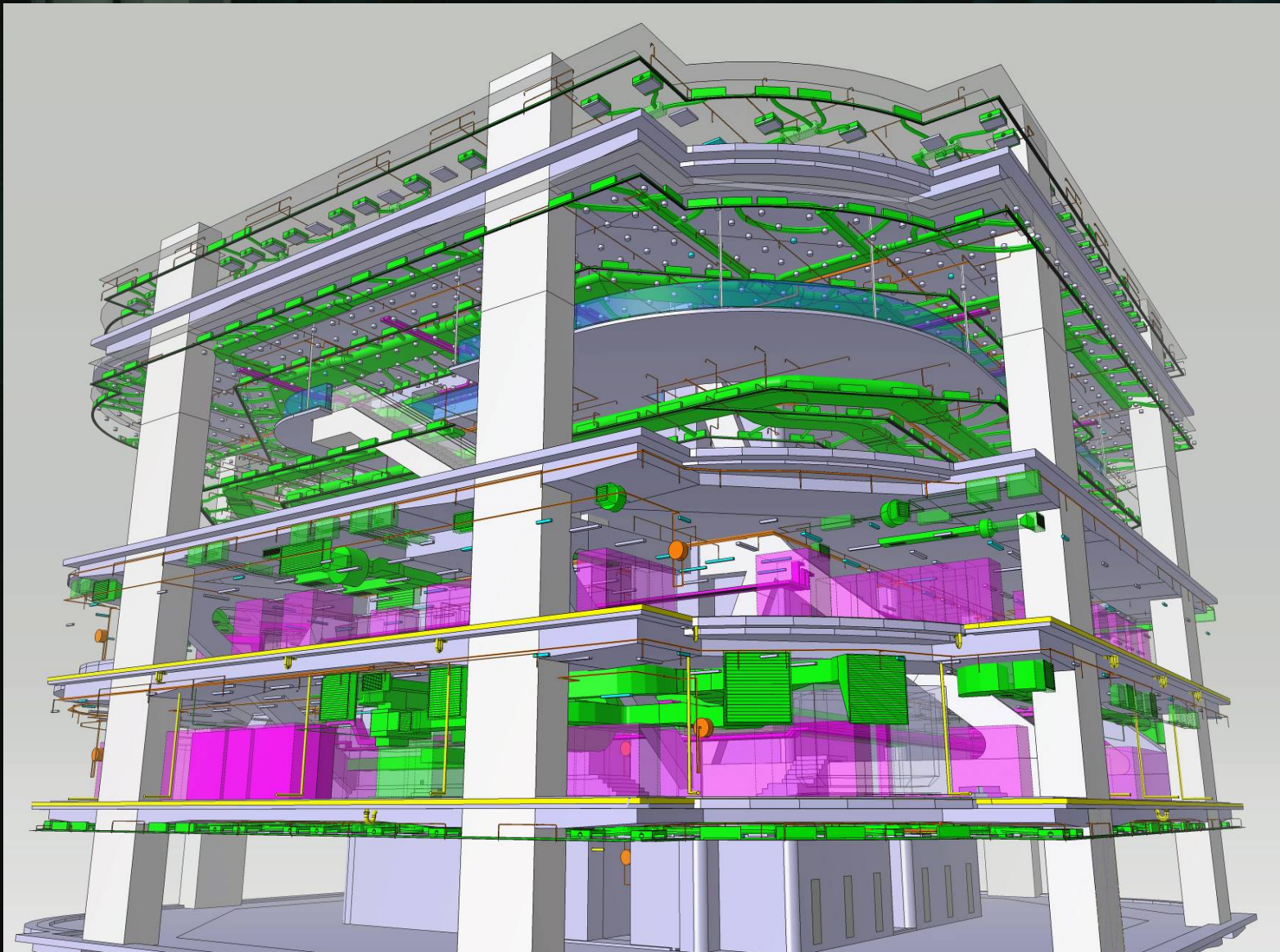
One Island East



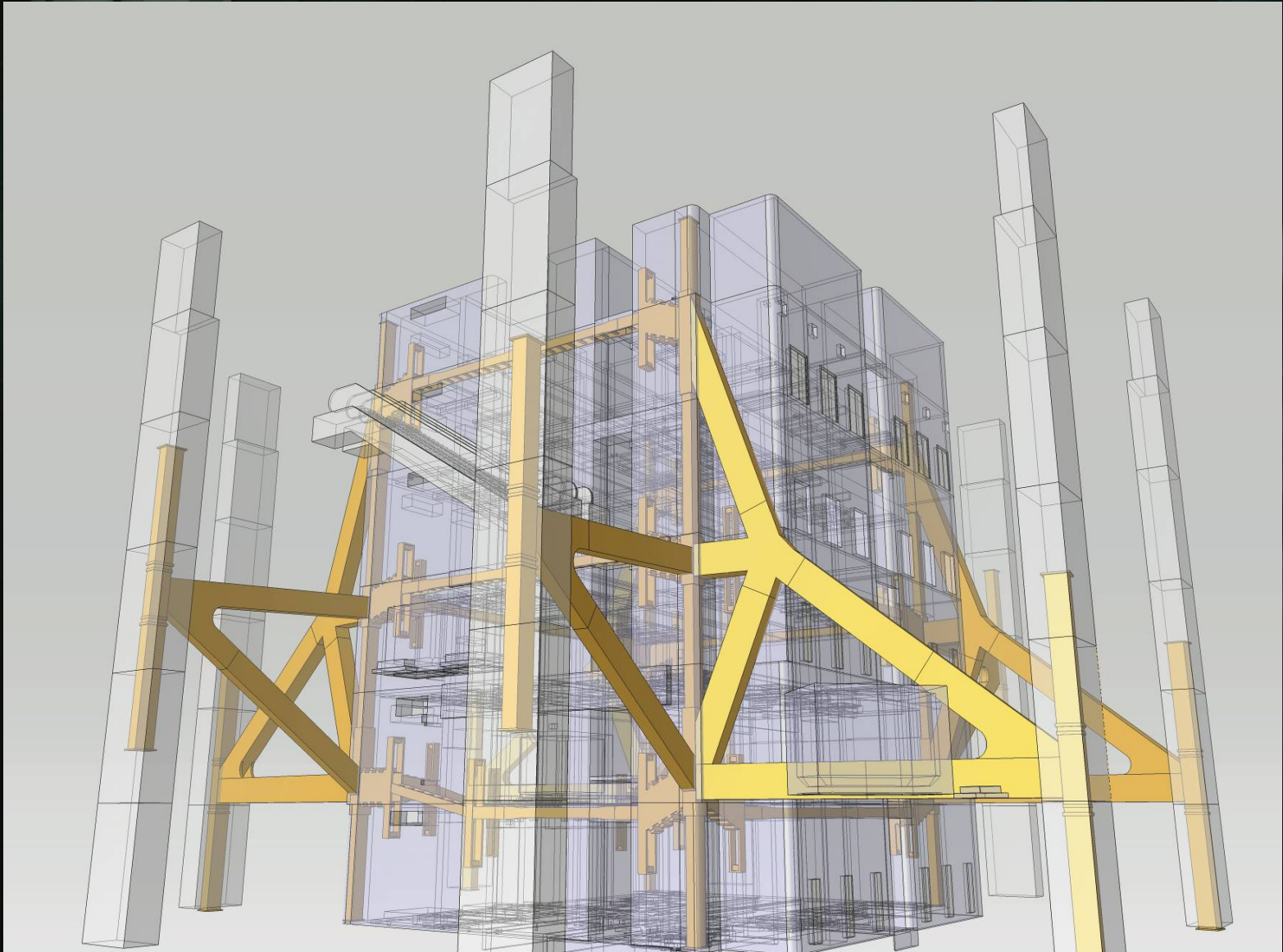
One Island East



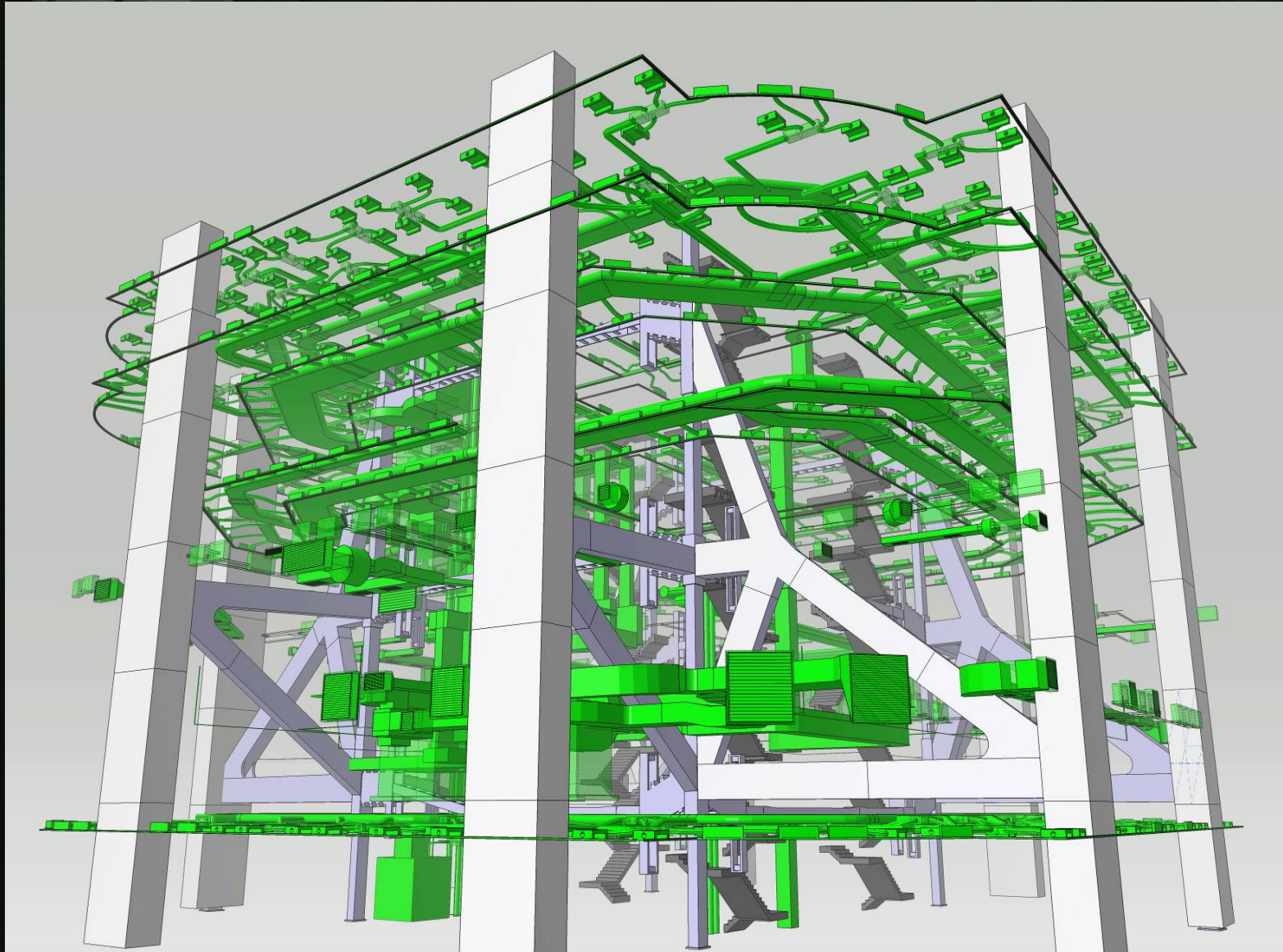
One Island East



One Island East

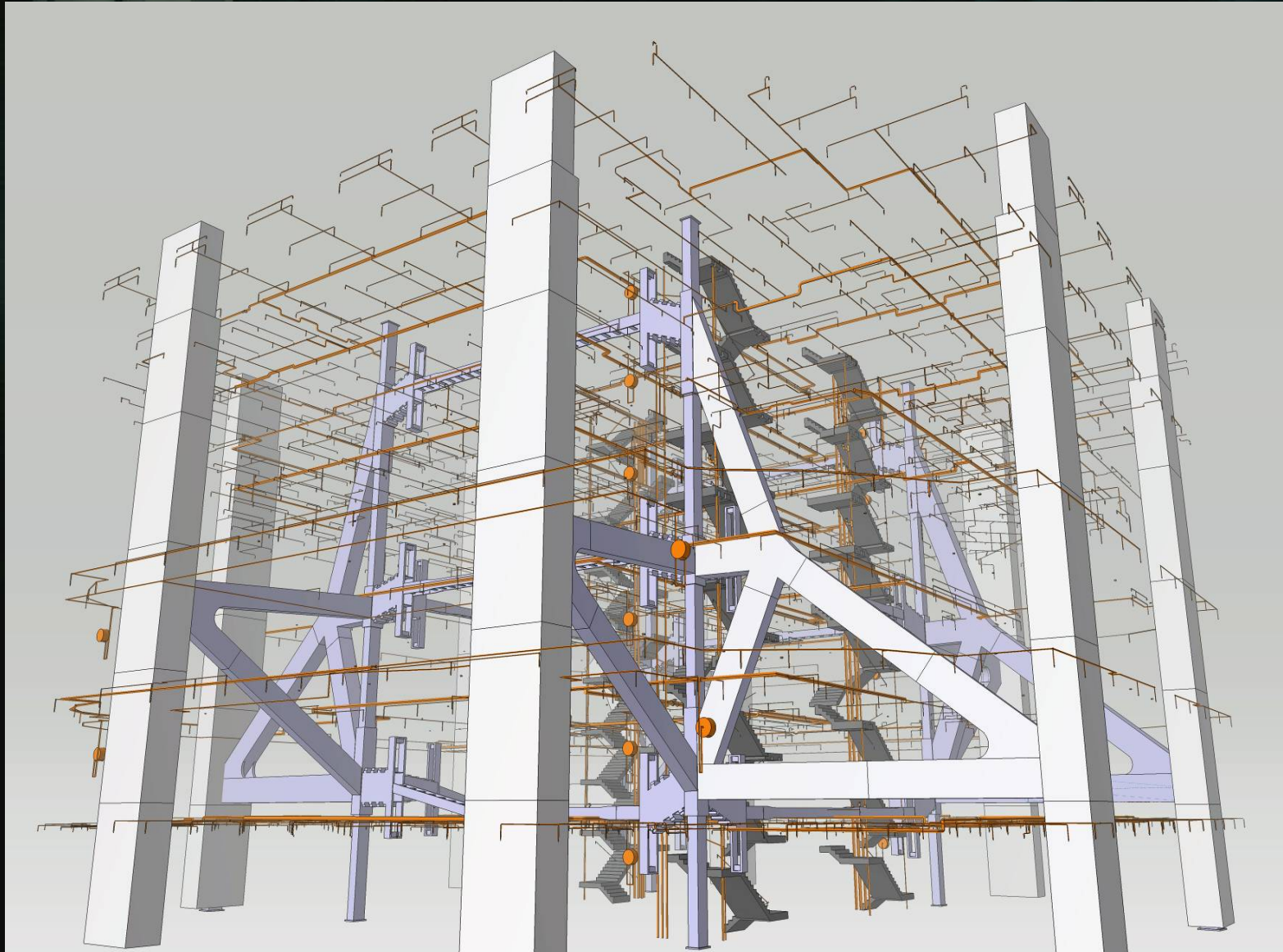


One Island East



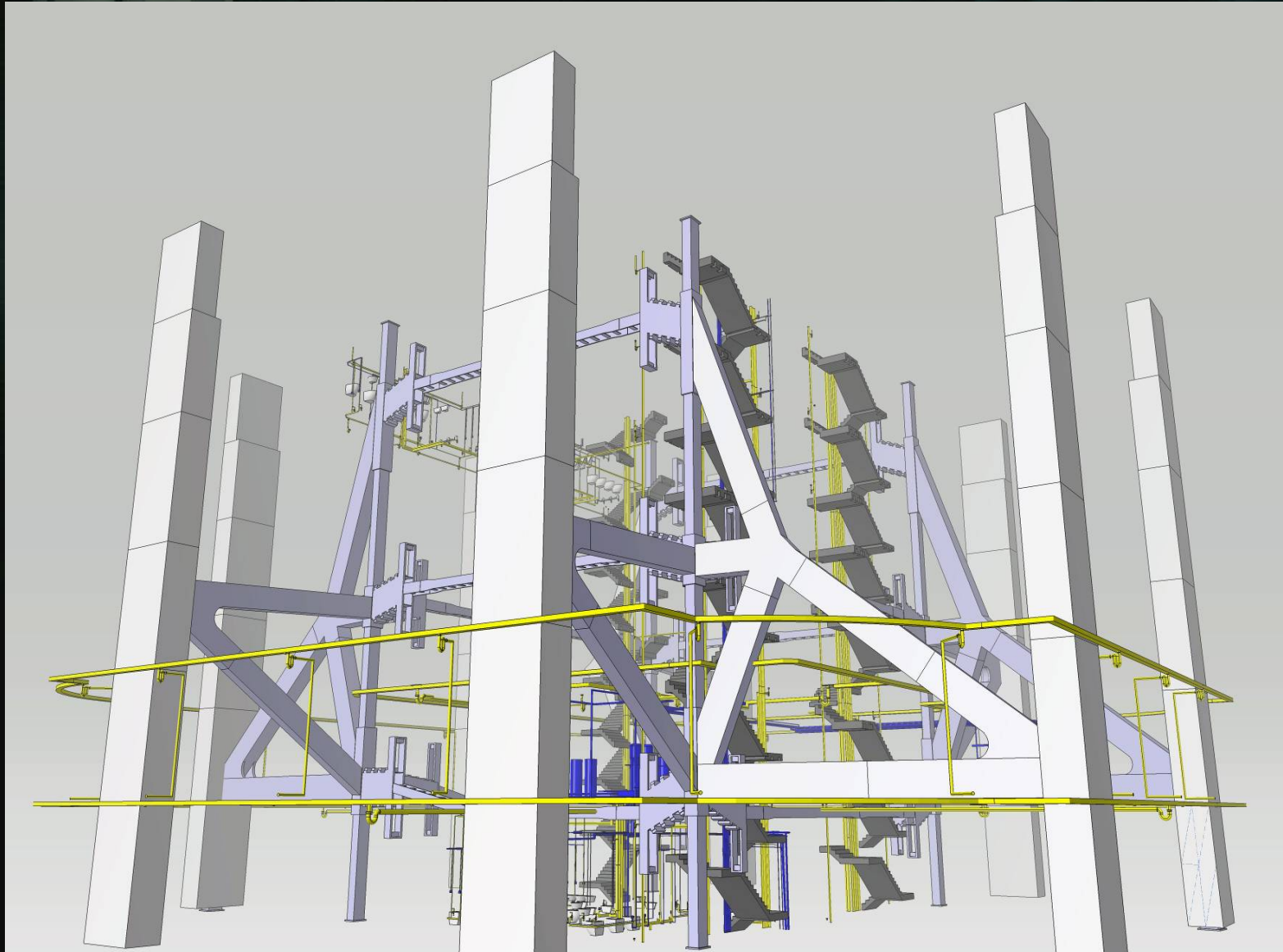
BIM HVAC Configuration

One Island East



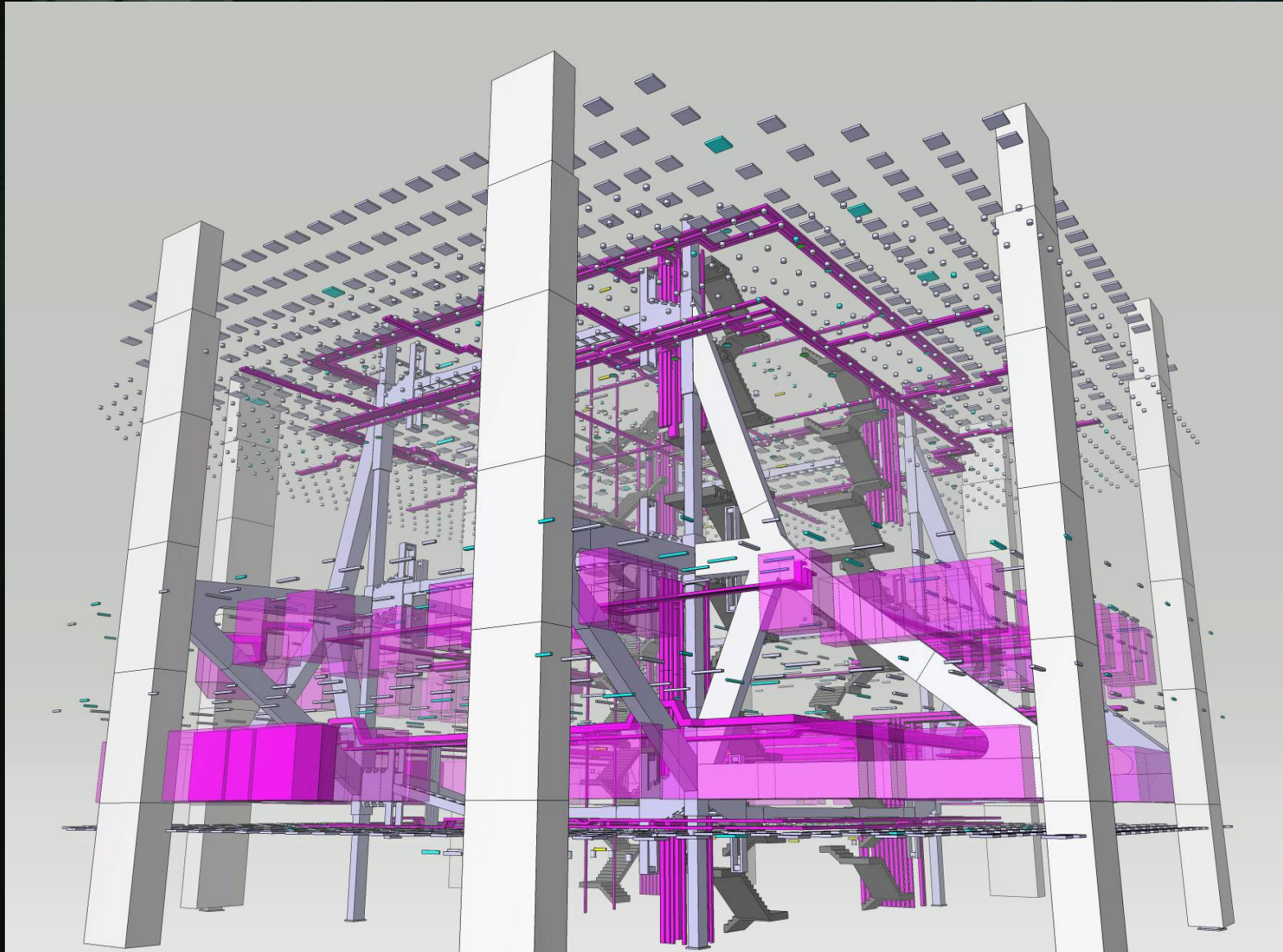
BIM FS Configuration

One Island East



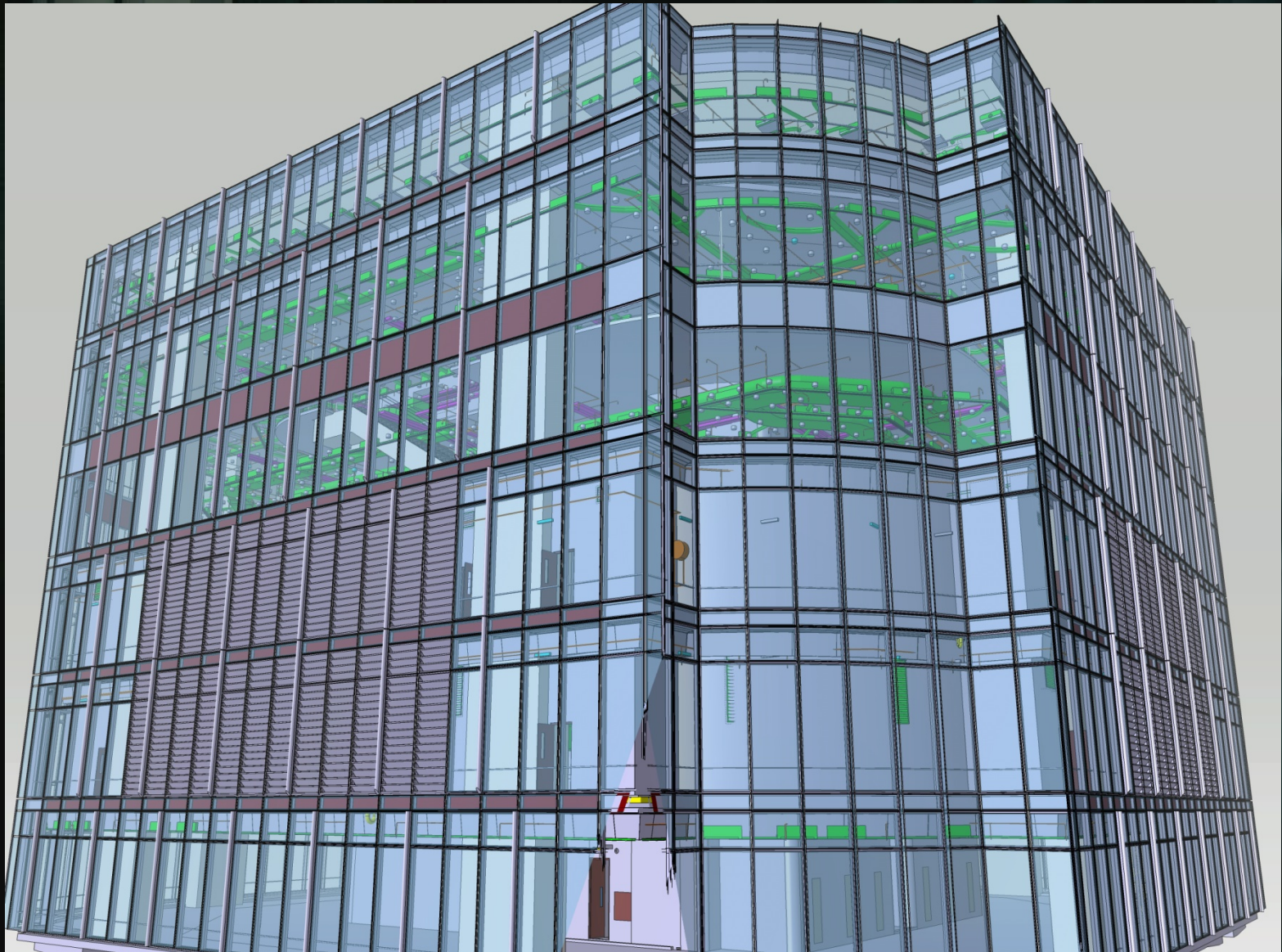
BIM Plumb & Drainage Configuration

One Island East

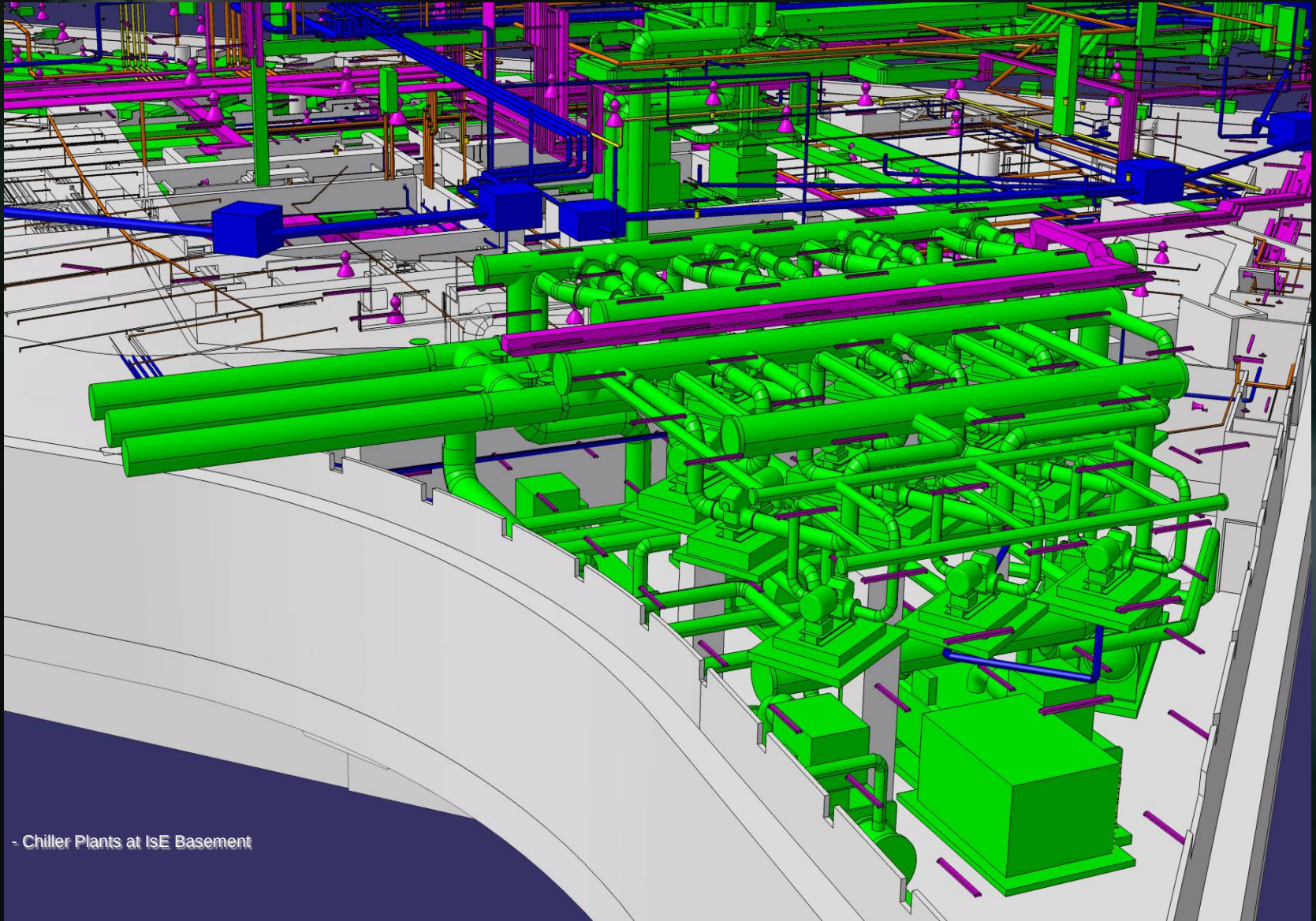


BIM ELEC Configuration

One Island East

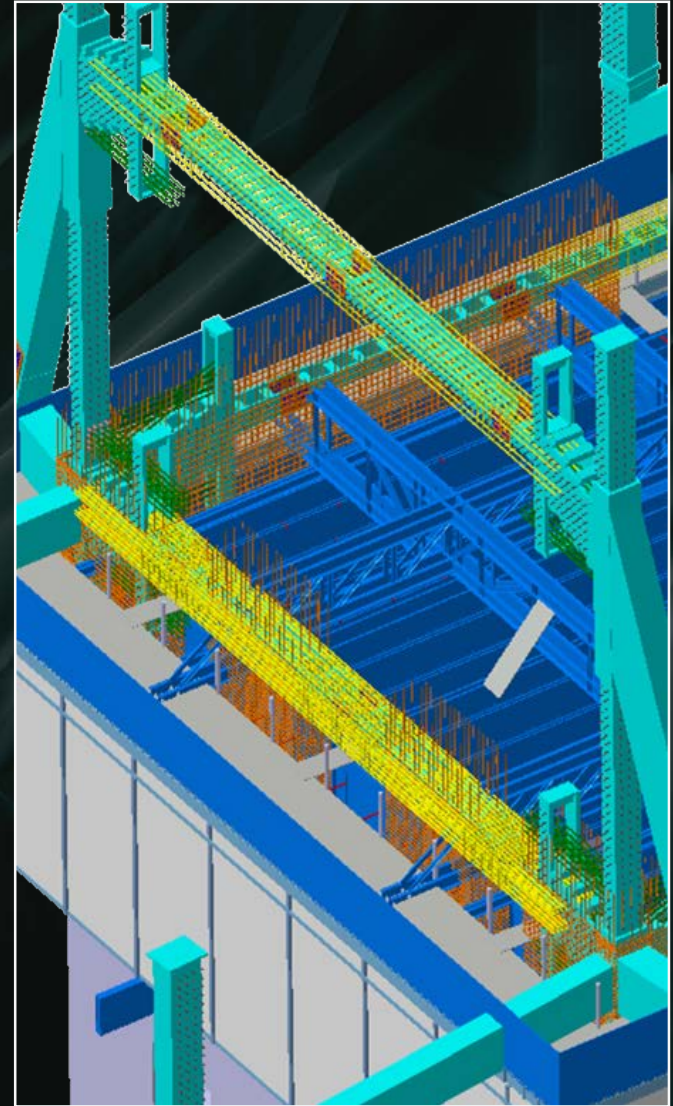
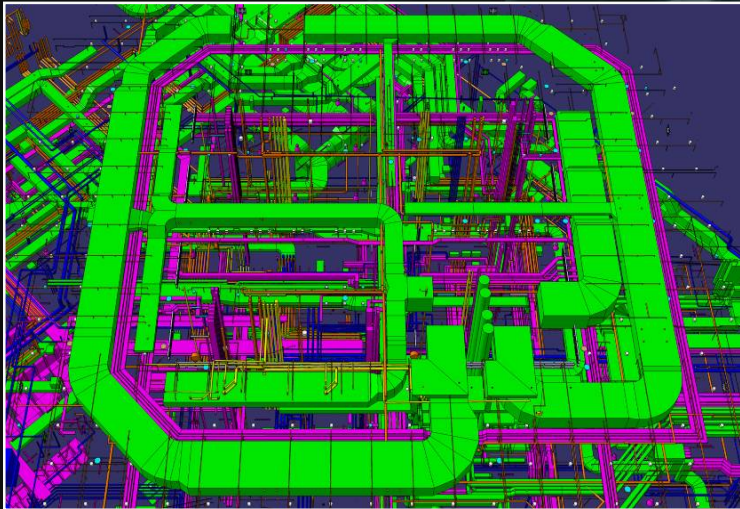
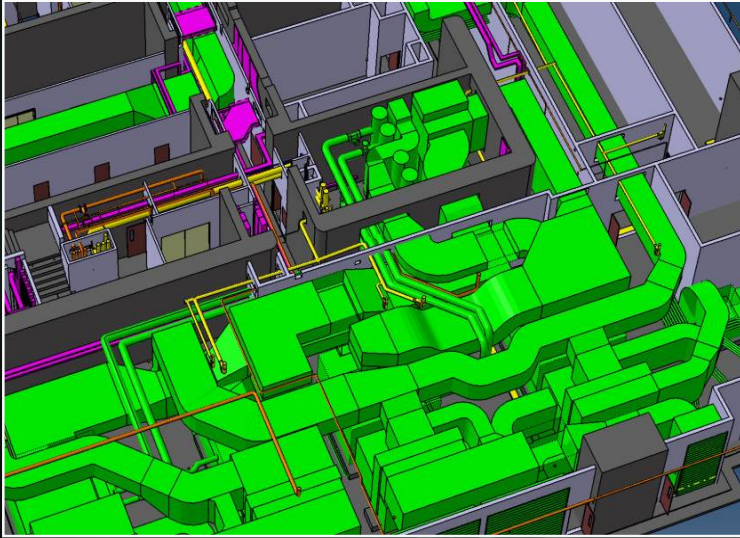


Detail Design and Coordination



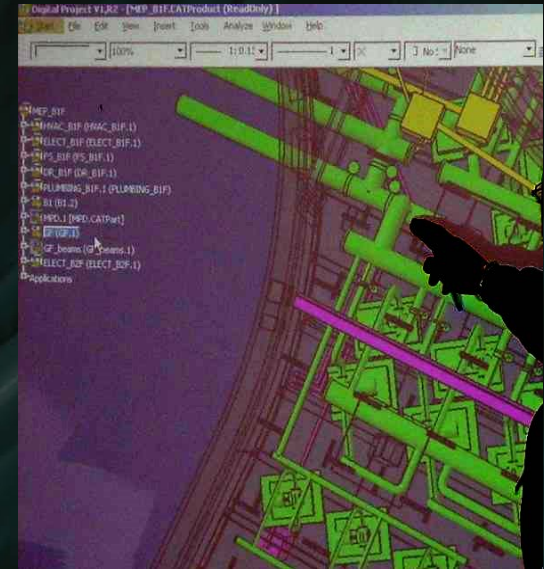
- Chiller Plants at IsE Basement

Detail Design and Coordination



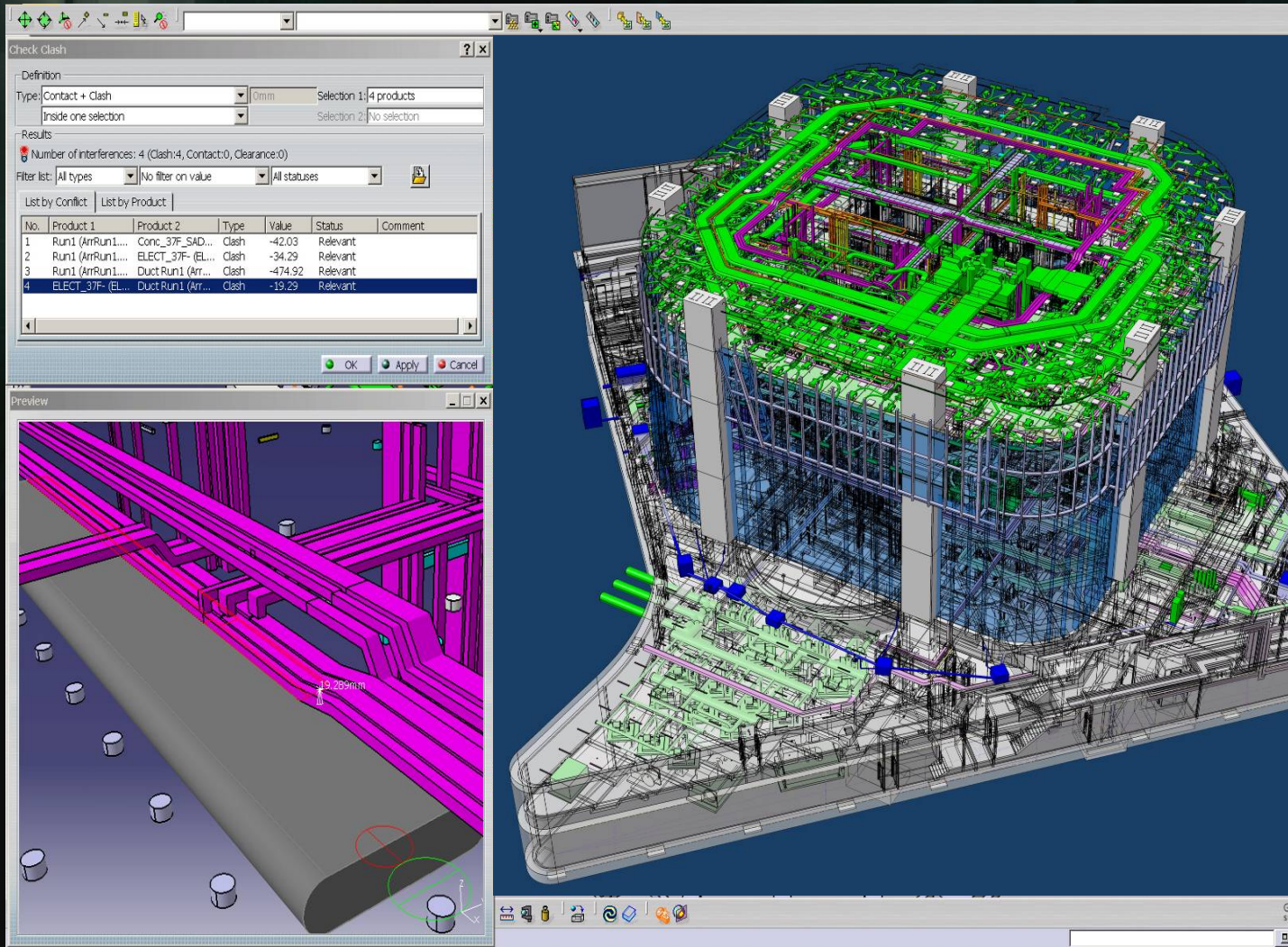
Project-wide multi-discipline design coordination

Detail Design and Coordination



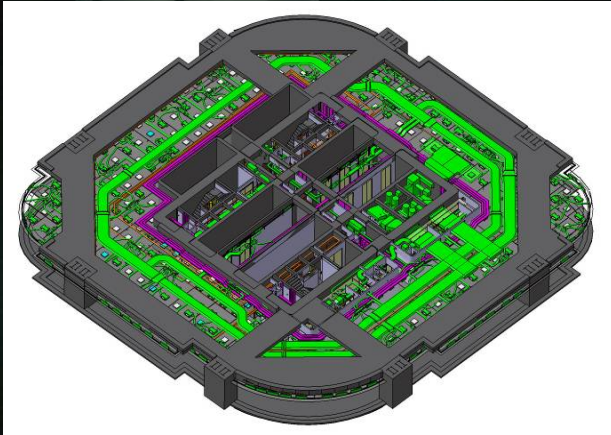
Owner, Architect, Structural, MEP, QS working in the same room on the same Contract 3D Building Information Model

Detail Design and Coordination

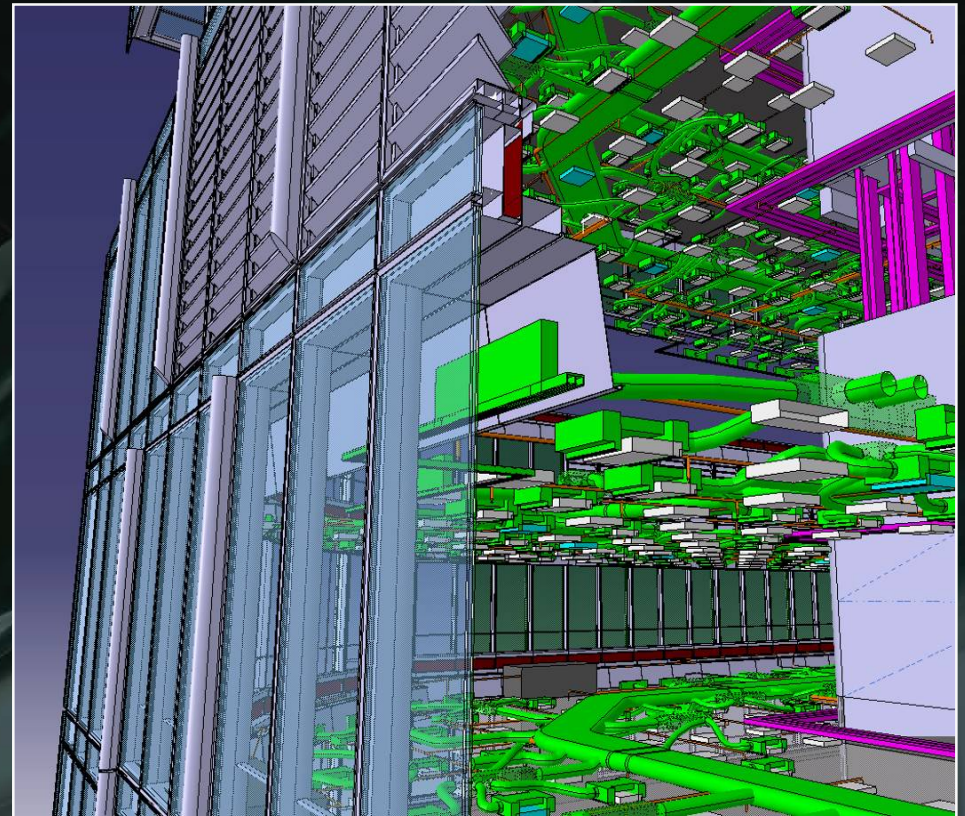
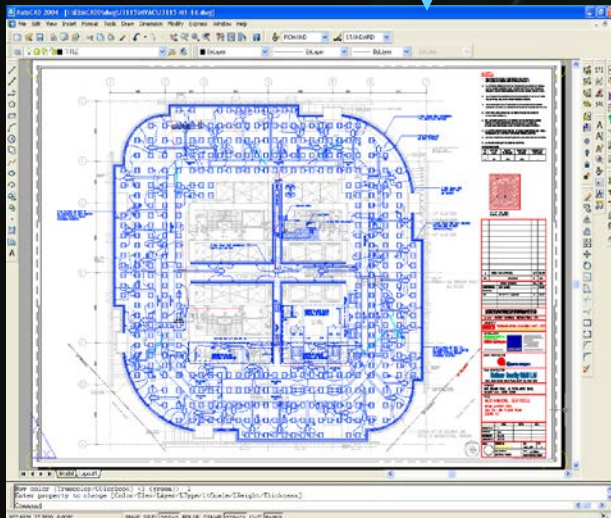
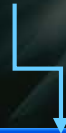


Automatic Clash Identification and Management

Work Document Coordination



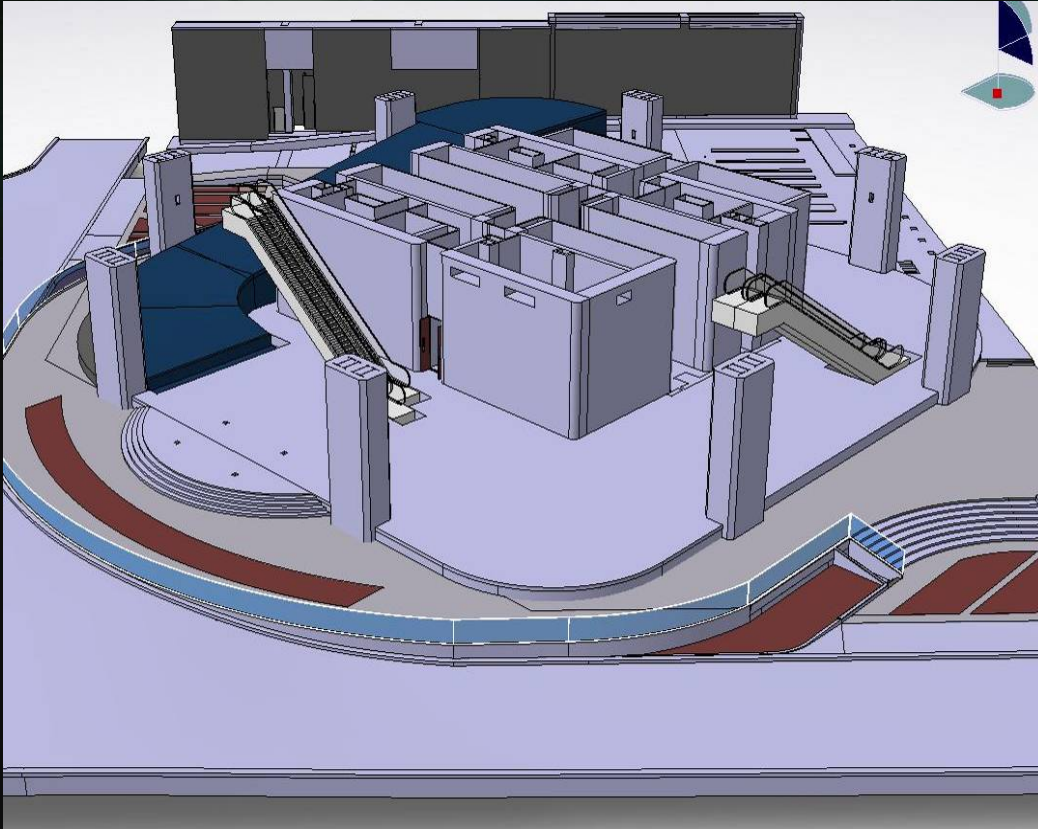
Coordinated 3D geometries



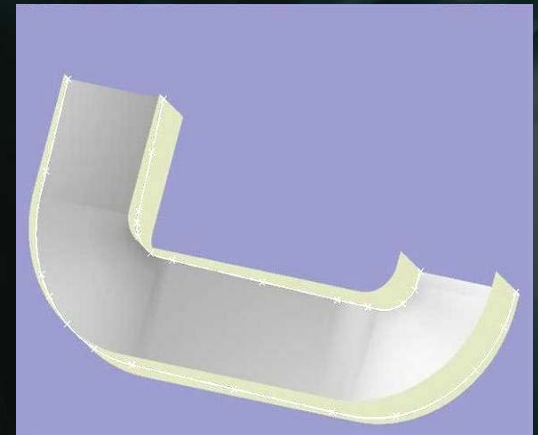
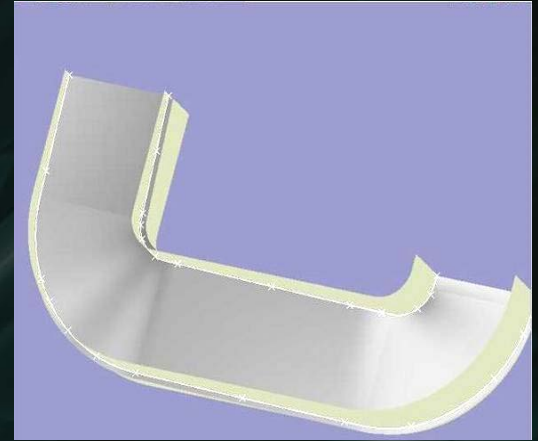
Live Sectioning

2D geometries output to ACAD for further coordination

Facilitate Design Development

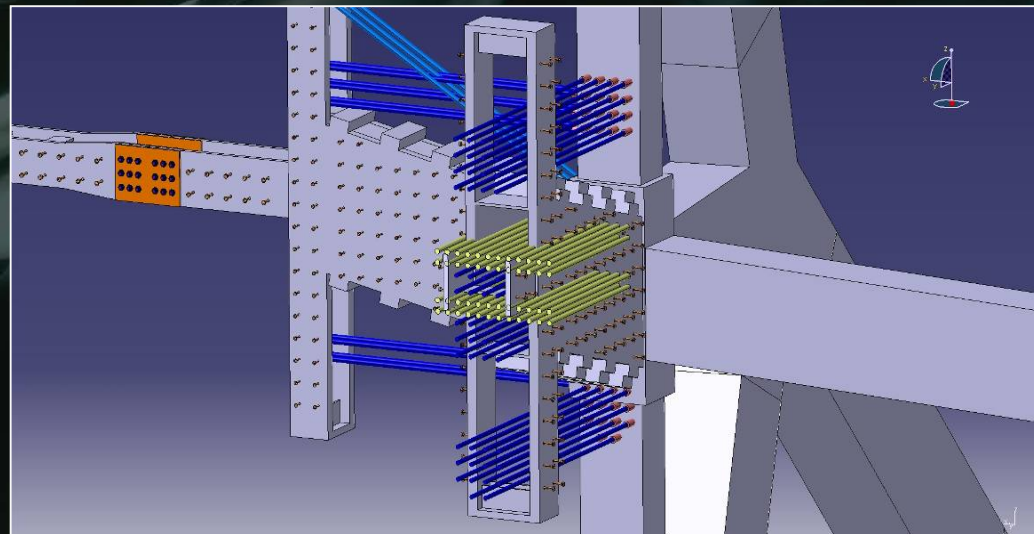
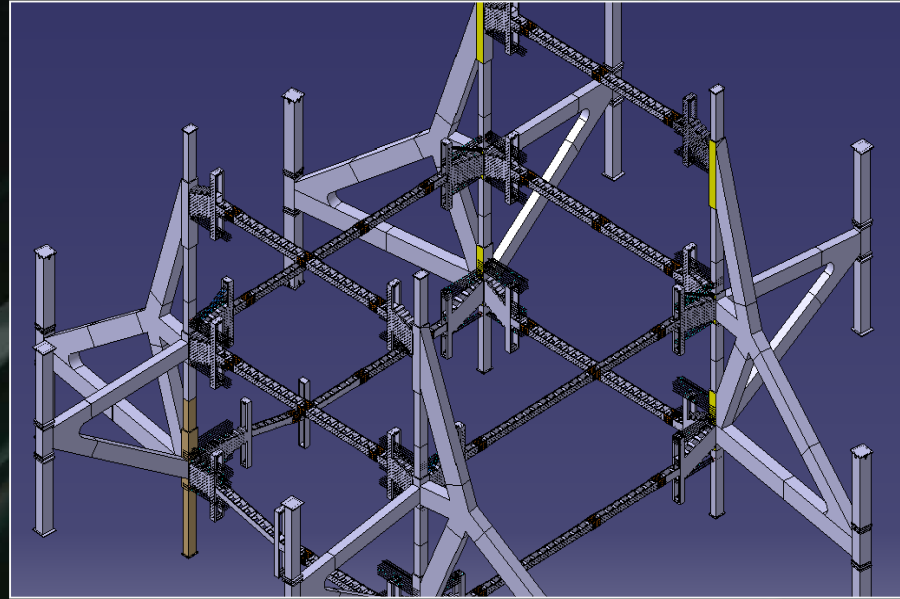


Road Curb Design Review



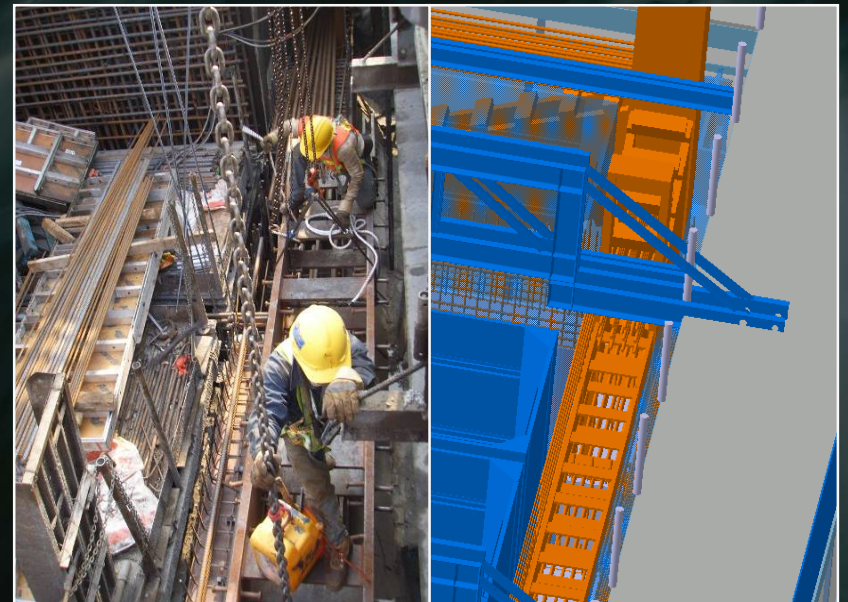
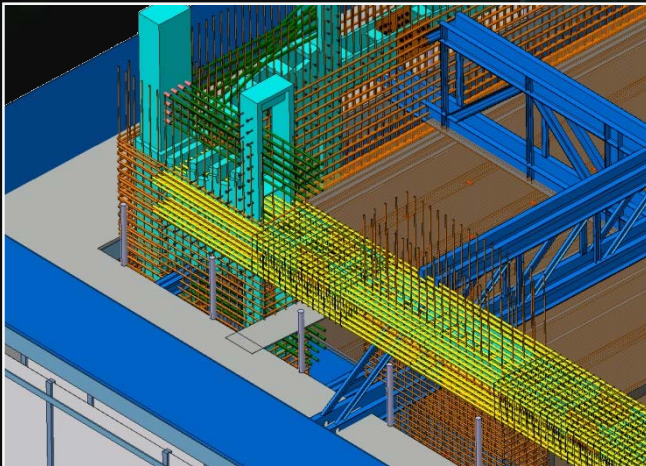
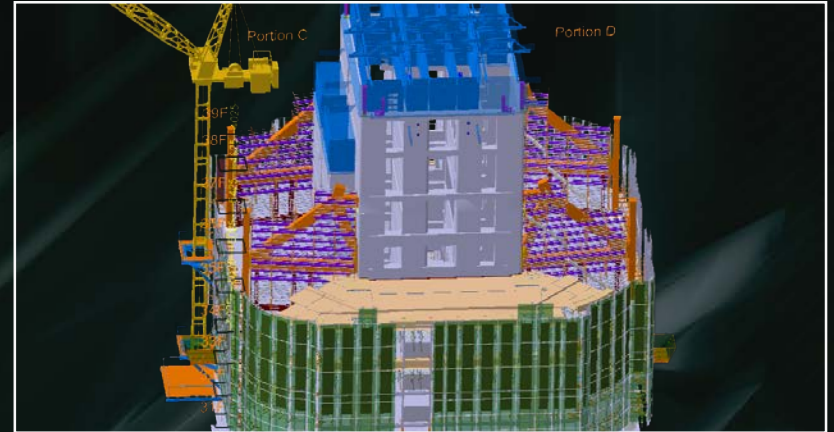
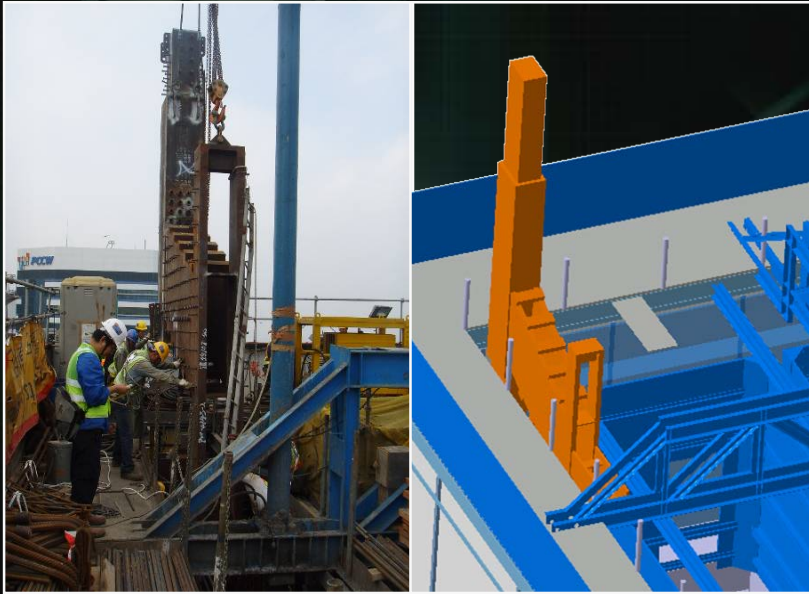
Car-ramp Design Review

Critical Structural Detail Checking



Steel Outrigger and Rebars

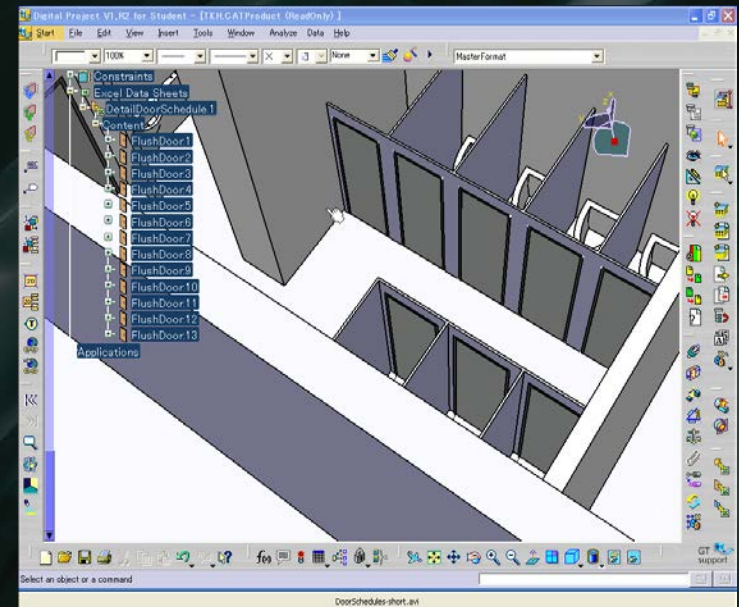
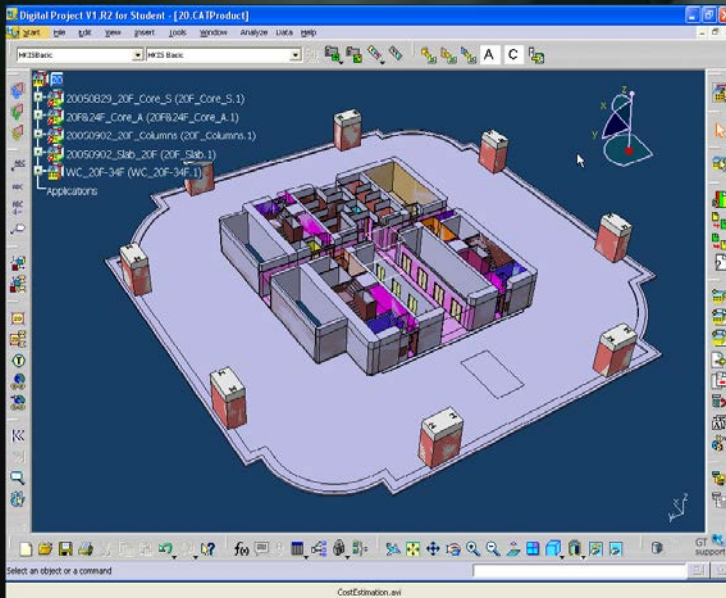
Critical Structural Detail Checking



Steel Outrigger

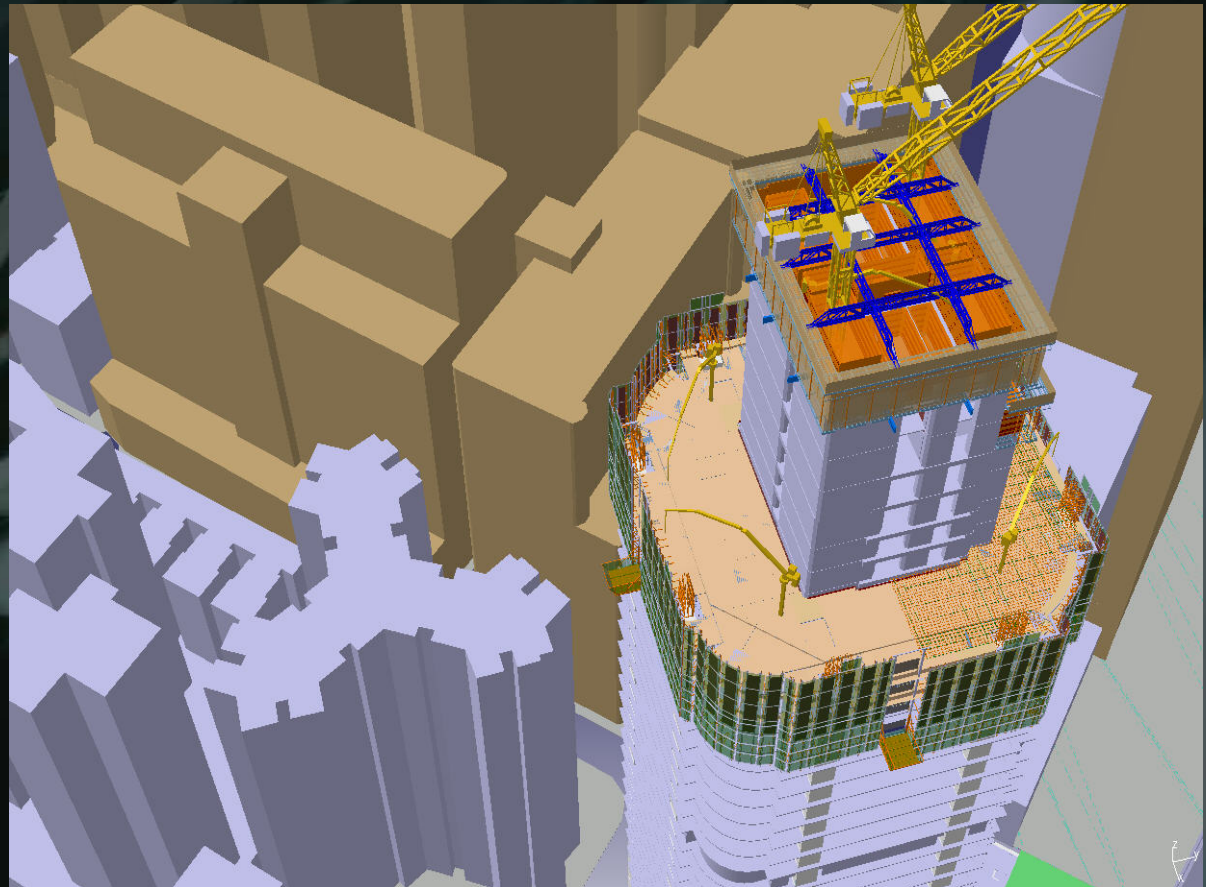
Scheduling and Data Extraction

- Quantity Extraction from BIM
- Work Scheduling utilizing BIM



Virtual Prototyping (4D Model)

- Detail study on the critical process
 - 4-day floor cycle



Virtual Prototyping

4 Day Cycle Simulation (Day 1)

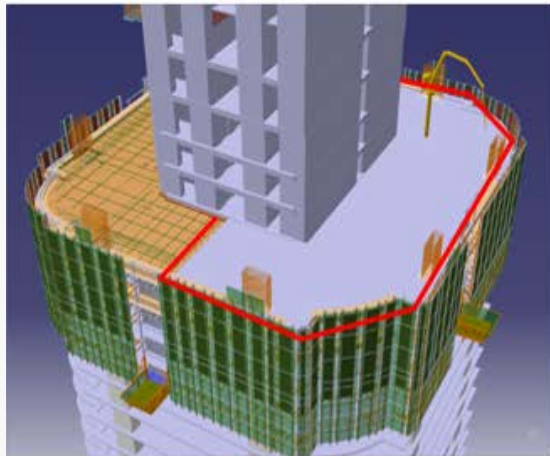
Morning



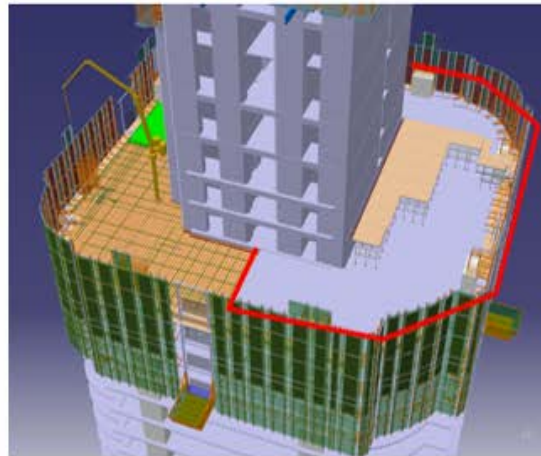
Afternoon



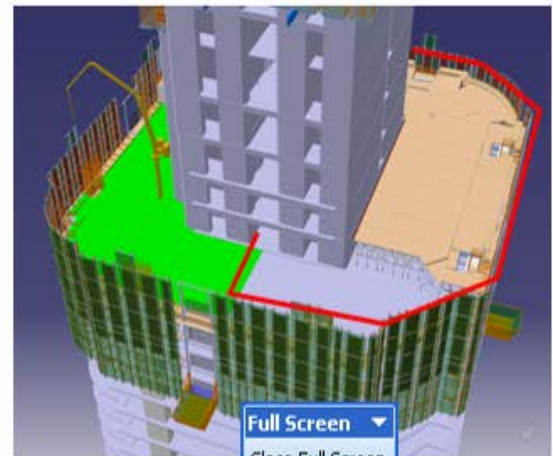
Evening



1. Set Up Table Form
2. Lift Safety Screen
3. Fixing Column Form



1. Set Up Table Form
2. Lift Safety Screen
3. Fixing Column Form

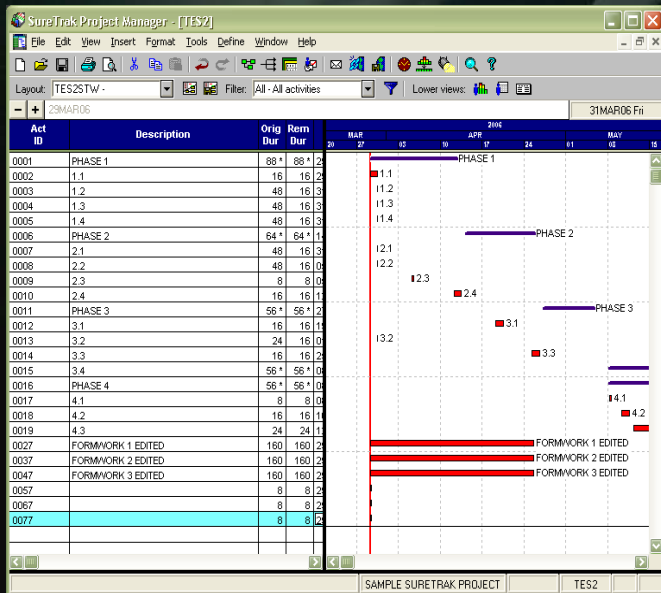


1. Set Up Table

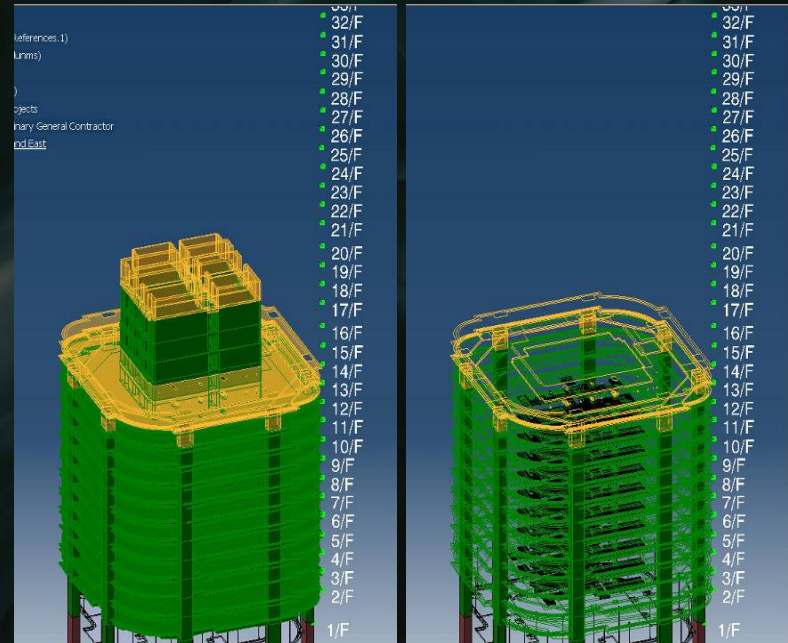
Close Full Screen

Visualize Master Progress with 4D Model

Data exchanging between Primavera and Digital Project



Primavera



Digital Project

Erweiterte Realität
zur Visualisierung
von Planungsdaten
vor Ort

The Real Estate Cash Flow-25 years



❑ Setting realistic expectations of BIM from the facility maintenance operation team's perspectives.



Virtual Asset



Physical Asset



Physical Asset

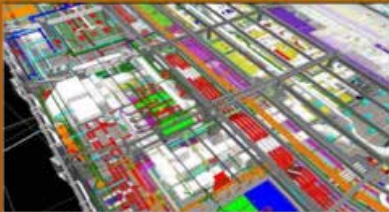


Virtual Asset

As-built BIM Field Checking



As-Built Data



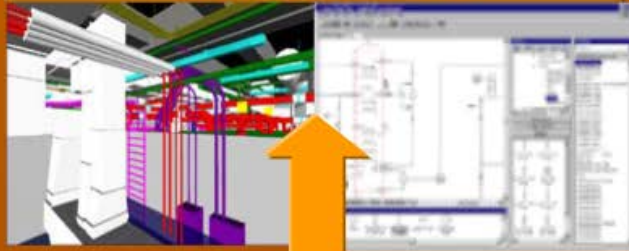
Engineering
Drawings



Intelligent P&ID



Inspection Data



Virtual Asset
Portal



Operation
(DCS/PI)



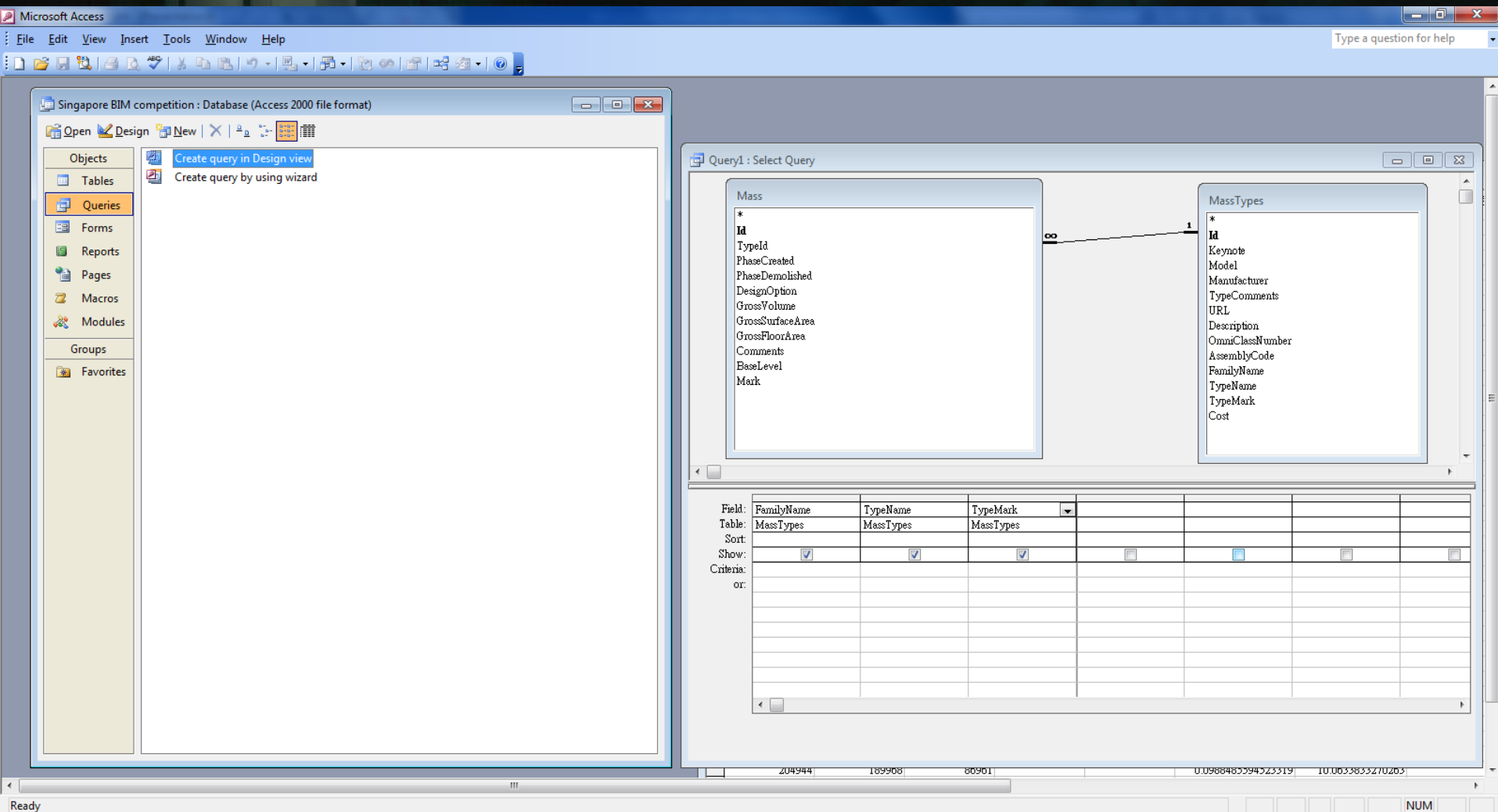
Operation Safety
Procedures



Maintenance

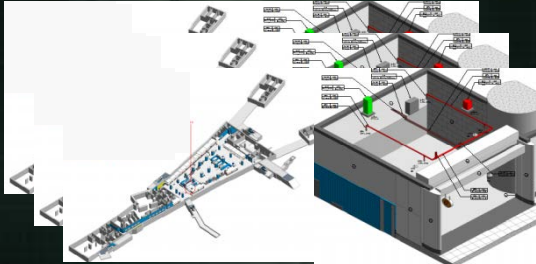




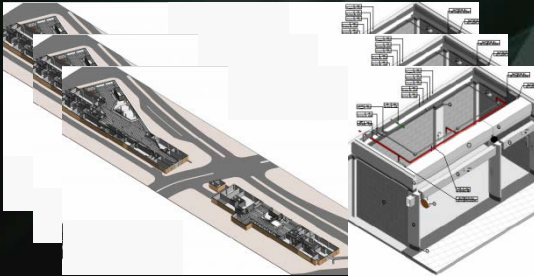


MODELLING + INDIVIDUAL DATABASE

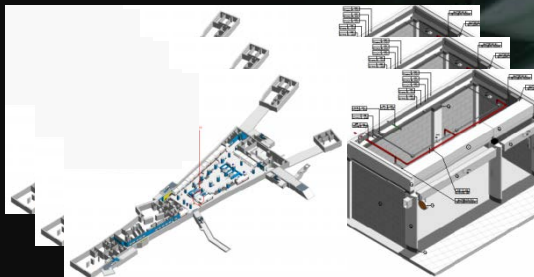
S1



S2



S3



FLEET WIDE DATABASE

MEGA
DATABASE

OTHER
DATABASES

APPLICATIONS

APP 1

E.G. CCTV
MONITORING

APP 2

E.G. RETAIL

APP 3



Query1 : Select Query

	FamilyName	TypeName
▶	SAT Tower Mullion	SAT Tower Mullion
	SAT Tower Surface Ref	SAT Tower Surface Ref
	Tower Panel	S01-P001
	Tower Panel	S01-P002
	Tower Panel	S01-P003
	Tower Panel	S01-P004
	Tower Panel	S01-P005
	Tower Panel	S01-P006
	Tower Panel	S01-P007
	Tower Panel	S01-P008
	Tower Panel	S01-P009
	Tower Panel	S01-P010
	Tower Panel	S01-P011
	Tower Panel	S01-P012
	Tower Panel	S01-P013
	Tower Panel	S01-P014
	Tower Panel	S01-P015
	Tower Panel	S01-P016
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	Tower Panel	S01-P035
	Tower Panel	S01-P036
	Tower Panel	S01-P037
	Tower Panel	S01-P038
	Tower Panel	S01-P039
	Tower Panel	S01-P040



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 The Hong Kong Institute of Building Information Modelling
香港建築信息模擬學會

HKIBIM Launch on 8th Jan 2010

Hong Kong Institute of Building Information Modelling (HKIBIM) was established in Jan 2009. After one year's preparation, it is proud to announce the launch of HKIBIM. On 8 Jan, 2010, the Launch was successfully held at the Hong Kong Club Building.

After opening speech by Ir Francis Leung, the Chairman of HKIBIM, the first fellow member of HKIBIM, Ms Ada Fung, made her speech followed by Architect Mr David Fung, Vice Chairman, sharing the membership application method and further direction of HKIBIM.

The launch ended with cocktail and networking until late night.



[Click here to view the event photos.](#)

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HKIBIM Launch on 8th Jan 2010
Official Launch of The Hong Kong Institute of Building Information Modelling (HKIBIM)

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Membership Application Form:



PDF format

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珠海學院
CHU HAI COLLEGE
OF HIGHER EDUCATION



THE HONG KONG
POLYTECHNIC UNIVERSITY
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School of Professional Education
and Executive Development
專業進修學院

SPEED 

HK BIM Awards

AECOM

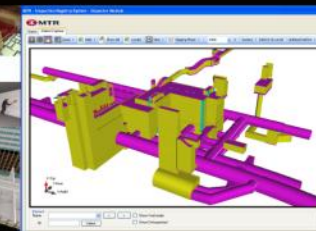
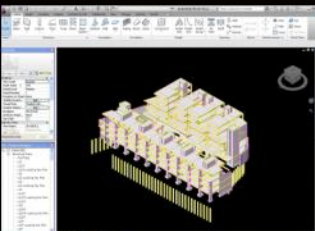
恒基兆業地產有限公司
HENDERSON LAND DEVELOPMENT COMPANY LIMITED

HOK

Hong Kong Housing Authority

MTR

瑞安建築有限公司
SHUI ON CONSTRUCTION COMPANY LIMITED



AECOM

Projects:

- Proposed Commercial Development at No. 125-127, Hoi Bun Road
- Proposed Residential Development at 55-57 Briney Road, Pokfulam

Location:

- Kwai Tong
- Pokfulam

Type:

- Commercial Development
- Residential Redevelopment

Scheduled Time of Completion:

- Hoi Bun Road - March 2013
- Briney Road - September 2013

"The concept took around two months to develop, compared to perhaps three to six months with the traditional approach," says Ir. Alan Yuen, Principal Engineer, Building Engineering (Structural), AECOM. "And we completed the structural design in under two months - when we would usually expect this to take three to four months for a building like this."

Henderson Land Development Co Ltd.

Projects:

- The Gloucester
- A Luxurious Boutique Hotel at 188 Jaffe Road

Location:

- 182 Gloucester Road, Wanchai
- 188 Jaffe Road, Wanchai

Type:

- Residential Development
- Hotel

Scheduled Time of Completion:

- 2012

"BIM is a catalyst for project innovation and a tool for speedier design development," says Kevin Ng, Deputy General Manager, Project Management (2) Department, Henderson Land. "We couldn't effectively and efficiently visualize 2D combined services drawings, for complicated projects, but with BIM we can realistically appraise problems and opportunities."

HOK International (Asia/Pacific) Ltd.

Project: Bengaluru International Airport Terminal 1 Expansion

Location: Bangalore, India

Type: Airport

Scheduled Time of Completion: 2013 & 2015

"The client can get a better understanding of the design via Revit's inherent 3D environment, and therefore become more engaged with the design process," says Mr. Benjamin Thomas, Senior Design Architect, Associate with HOK.

"The BIM model was a massive help in the design process," says Ir. Andrew Mole, Associate Director of Arup. "There is only so much information you can show in 2D drawings, since they must be interpreted to understand the full spatial information. 3D models communicate better. The BIM model allowed creation of multiple views of the airport design, with minimum additional effort."

Hong Kong Housing Authority

Projects:

- Tai Pak Tin Street Public Housing Development
- Redevelopment of Lower Ngau Tau Kok Estate
- Redevelopment of So Uk Estate

Location:

- Tai Pak Tin Street
- Lower Ngau Tau Kok Estate
- So Uk Estate

Type:

- Public Housing

Having worked on projects with BIM used in standard ways - such as reducing clashes during construction, Hong Kong Housing Authority has recently progressed to helping accelerate a construction project in Tai Pak Tin Street, and even demolished old buildings using BIM in Lower Ngau Tau Kok and So Uk.

MTR Corporation Limited

Project: Re-Development of Inspection Registry System

Location: Hong Kong

Type: System Development

Scheduled Time of Completion: 2011

"Our BIM model is for all, so inspectors can work efficiently," notes Mr. Dorian Leung, Structural Inspection and Investigation Manager, MTR Corporation.

"I think BIM will become more popular in the long term," says Mr. Dickson Luk, System Analyst, MTR Corporation. "Now, it is mainly used by BIM professionals. In future, inspectors, engineers and managers will gain more and more access to BIM models - which will enhance our expertise in managing the Corporation's railway assets."

Shui On Construction Co. Ltd.

Project: The Innovation Tower, The School of Design

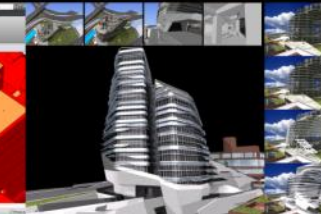
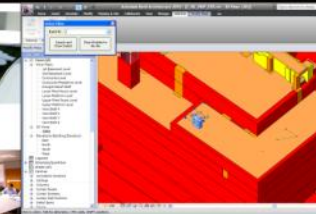
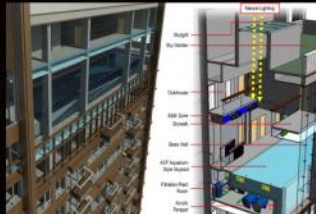
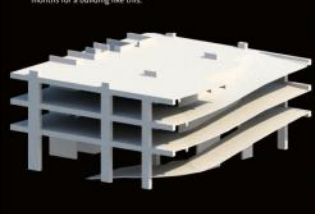
Location: The Hong Kong Polytechnic University, Hung Hom

Type: Academic Building

Scheduled Time of Completion: 2012

With BIM, correlations between various disciplines would be far clearer than with 2D drawings and sections, and Shui On could construct Innovation Tower as envisaged by the architect.

Mr. Chan Tsang Shing, Senior Engineer of Shui On Construction Co. Ltd. says Shui On is now training staff to use BIM, and they find that Revit helps them easily visualize construction projects in 3D. "Most colleagues find it very useful, and know there's a trend to use BIM," he adds.



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Written by admin
June 1st, 2009

AIAB (Autodesk Industry Advisory Board) is formed by a group of expertise who are willing to share their valuable experience in BIM (Building Information Modeling) to the public. We currently have members from Hong Kong and Macau region.

Chairman's Message | Comments Off

SING TAO DAILY ARTICLES – 綠色建築新思路 – 23 JUN 2010

Written by admin
June 24th, 2010



綠色建築新思路

(逢星期三刊登)

李煥明

- Autodesk香港及澳門區域總監
- 香港建築信息模擬學會義務秘書
- 英國電腦學會(香港分會)義務秘書
- 電郵: wendy.lee@autodesk.com

Link: www.aiab.org



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XCAD-1

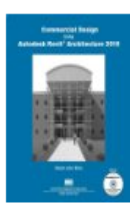
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2009-07-02	Coming Upgrades We're in the process of setting up a new server over the next couple of days. Please bear with us if you notice glitches as we make the transition over to some faster hardware.	Forum Posts: 78343
2009-02-24	PLEASE READ: Note To Members About RevitCity Hi Everybody, Thank you all for making RevitCity what it is. For those of you who don't know RevitCity is a part-time volunteer effort by my brother, me, and our fantastic moderators (c . . .	Job Listings: 3
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Commercial Design Using Revit Architecture 2010

Daniel John Stine

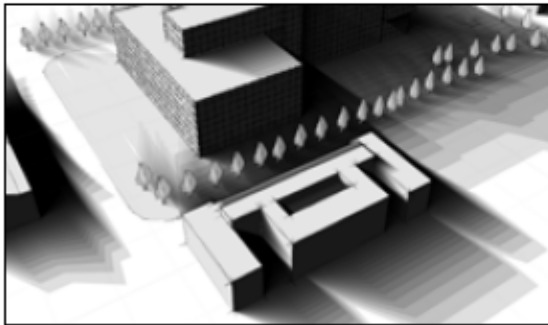
Best Price \$37.80 or Buy New \$53.95

Link: www.revitcity.com

BIM DEVELOPMENTS – SUSTAINABILITY DESIGN

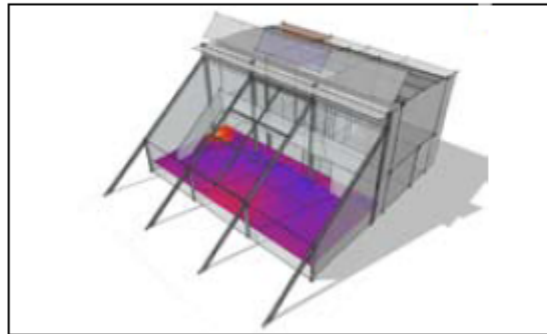
Shadows and Reflections

Display the sun's position and path relative to the model at any date, time, and location using this simulation tool. View how sunlight enters through windows and moves around within a space.



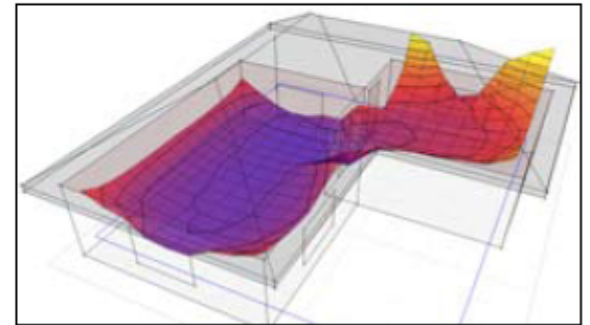
Daylighting

Calculate daylight factors and illuminance levels at any point in the model or over the analysis grid. This tool helps determine potential savings due to daylight-linked lighting design.



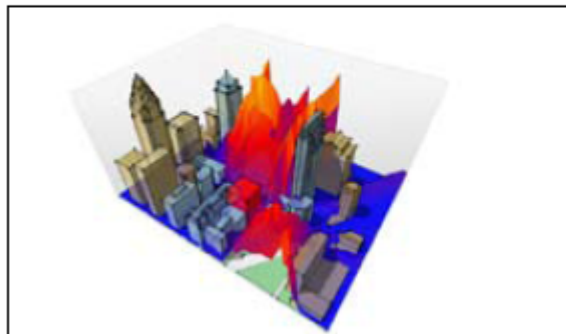
Thermal Performance

Calculate heating and sensible cooling loads for models with any number of zones or types of geometry. Analyze effects of occupancy, internal gains, infiltration, and equipment items.



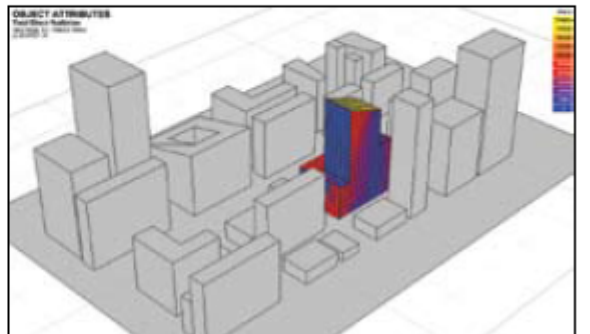
Visual Impact

Analyze site projection angles, assess obstructions, calculate vertical sky components for any point or surface, and visualize the no-sky line in any space.

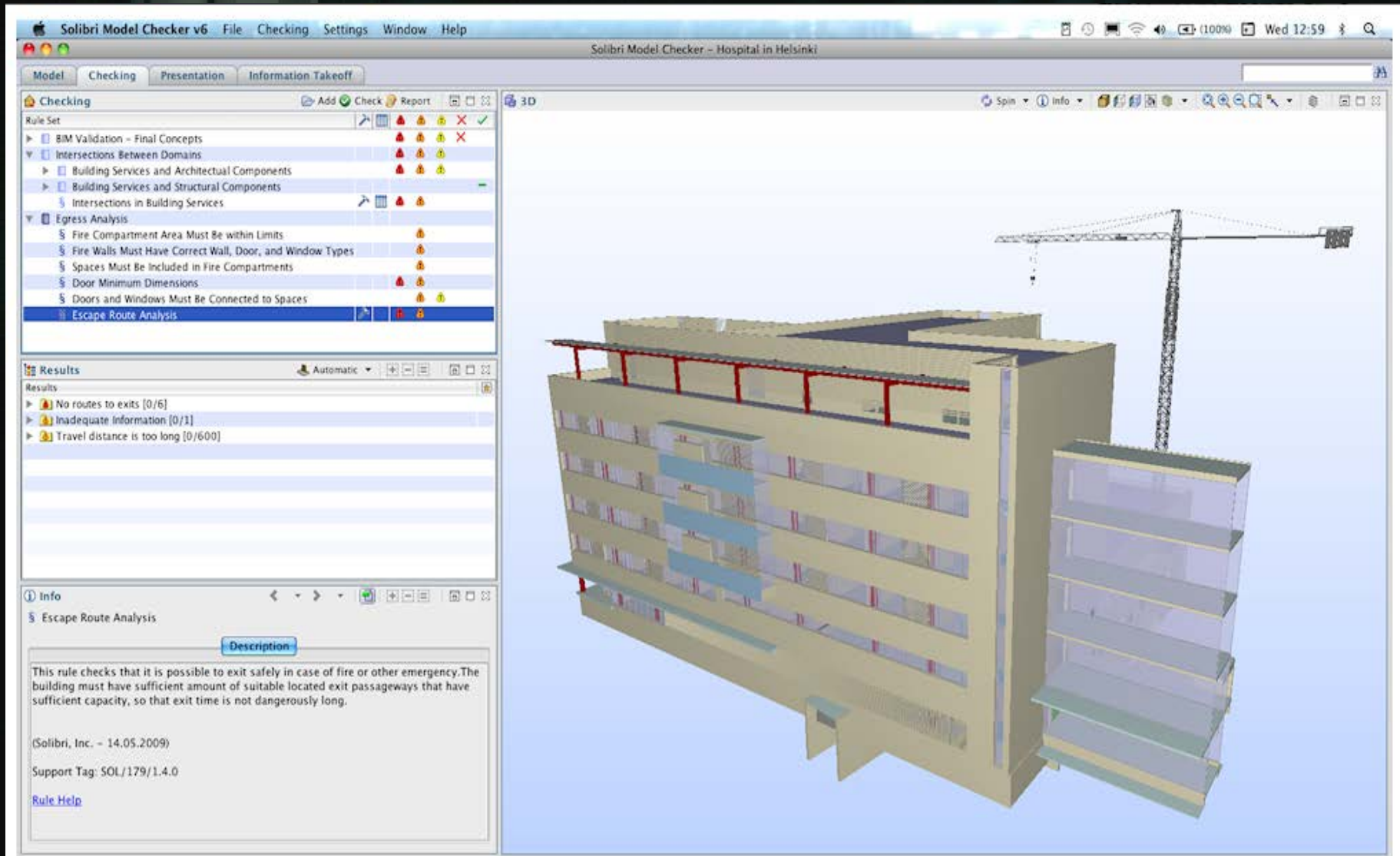


Solar Radiation

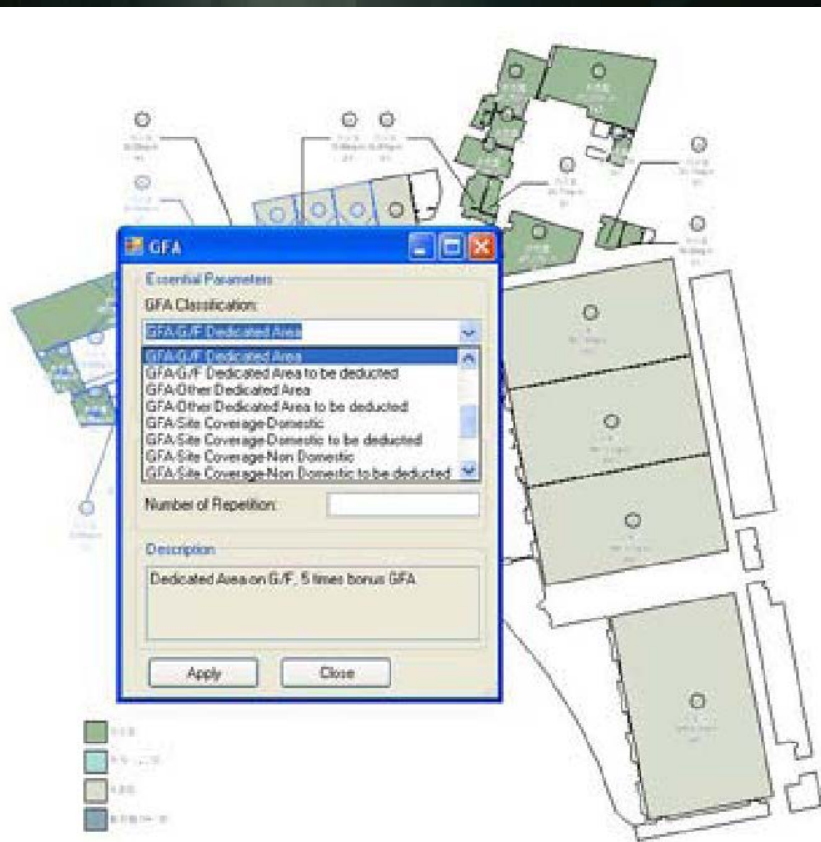
Visualize incident solar radiation on windows and surfaces, showing differential incident solar radiation calculated over any period.



BIM DEVELOPMENTS – STATUTORY CHECKING



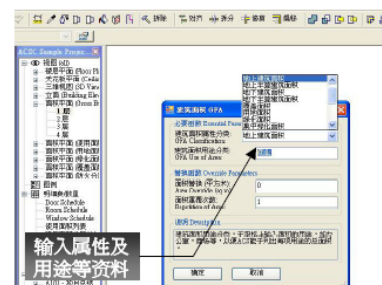
BIM DEVELOPMENTS STATUTORY SUBMISSIONS



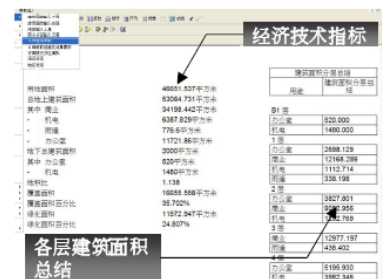
Link: www.bit-world.com

ACS · C@REVIT 产品说明

ACS·C@REVIT 是为中国建筑设计而开发的一套自动规范检算系统，系统专门为 Autodesk Revit 而设。只要简单勾出各类面积，输入属性及用途等资料，程式便能自动完成规范检算。相比传统做法能大幅提升其效率达数倍以上。



支援各类建筑面积运算、经济技术指标、使用面积人数换算、疏散走道要求、洁具要求、及防火分区面积结算。

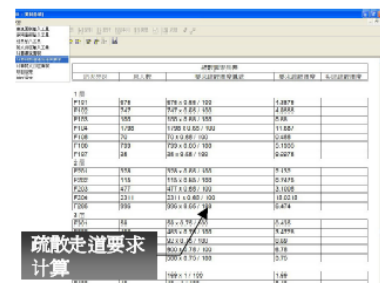


1. 经济技术指标运算包括：
 - 用地面积
 - 地上、地下及不同功能性质的建筑面积结算及容积率
 - 绿地总面积及绿地率
 - 建筑密度

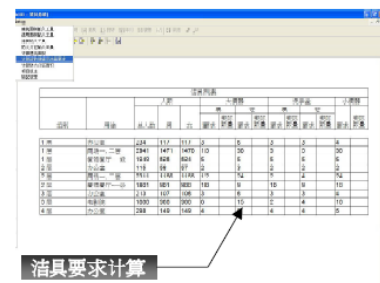
2. 使用面积运算包括：



- 根据使用面积用途计算人数



- 根据不同楼层或防火分区的总人数及其建筑物功能性质计算疏散走道要求



- 根据不同楼层或区域的总人数及其用途，计算男女人数分布，及

United States

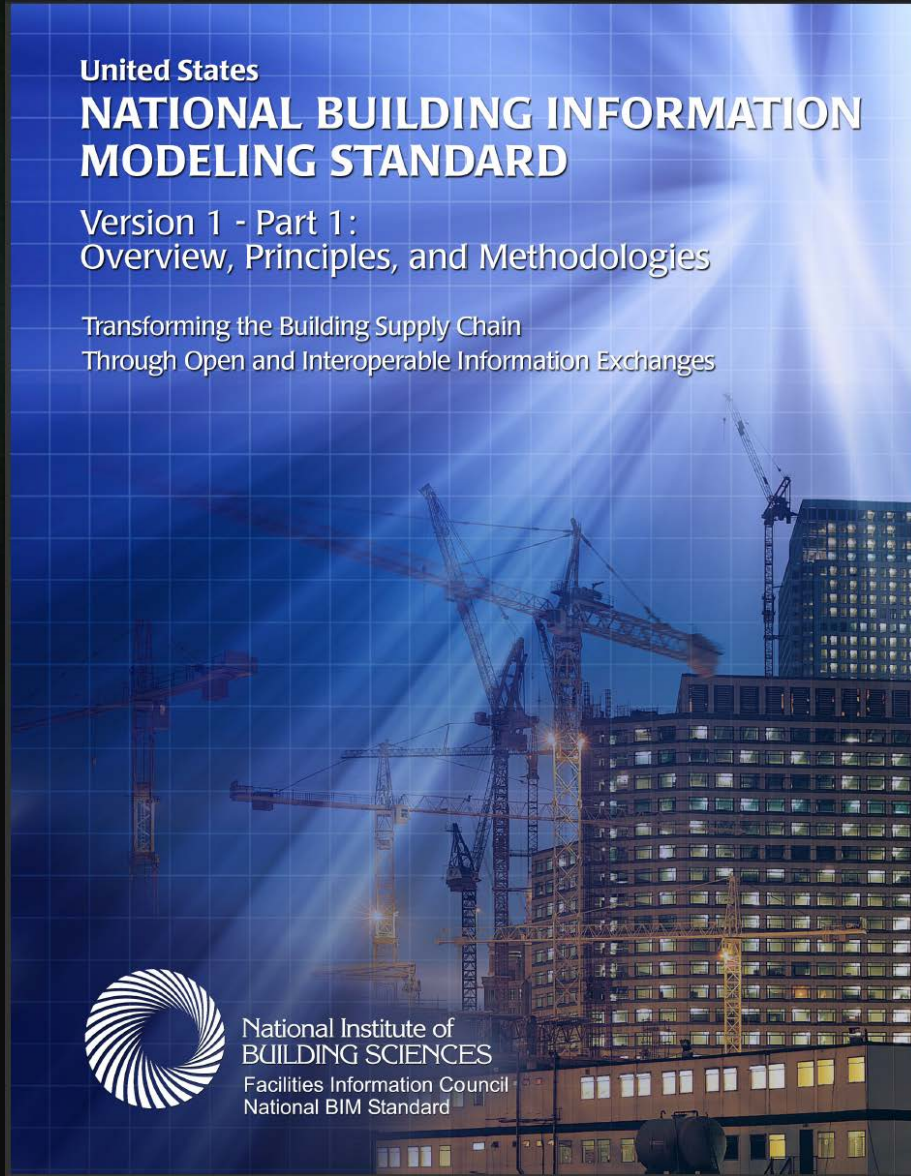
NATIONAL BUILDING INFORMATION MODELING STANDARD

Version 1 - Part 1:
Overview, Principles, and Methodologies

Transforming the Building Supply Chain
Through Open and Interoperable Information Exchanges



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National BIM Standard





GSA

BIM Guide For Spatial Program Validation

GSA BIM Guide Series 02

www.gsa.gov/bim



AEC (UK) BIM Standard

A practical & pragmatic BIM standard for the Architectural, Engineering and Construction industry in the UK.

Version 1.0

November 2009

First release



AEC (UK) BIM Standard for Autodesk Revit

A workable implementation of the AEC (UK) BIM Standard for the Architectural, Engineering and Construction industry in the UK.

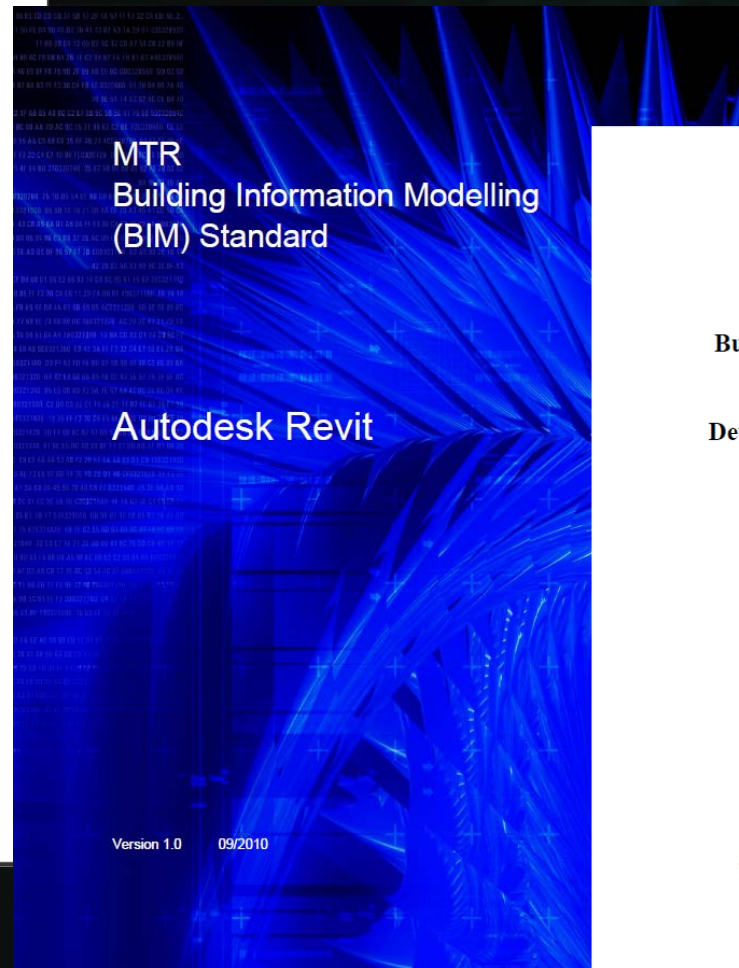
Version 1.0

April 2010

First Issue

Hong Kong Institute of
Building Information Modelling

BIM Project Specification



**Building Information Modelling (BIM)
Standards Manual
for
Development and Construction Division
of
Hong Kong Housing Authority**



(Version 1.0)
November 2009

Prepared by Business Information Technology Unit
Development & Construction Division
Housing Department

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The Government of the Hong Kong Special Administrative Region

Singapore BCA visit to HK



TARGET



**Singapore Construction
Industry to Use BIM
Widely by 2015**

PHASED MANDATORY BIM E-SUBMISSION

2013

Mandatory Architecture BIM e-Submissions for all new building projects > 20,000 m²

2014

Mandatory Engineering BIM e-Submissions for all new building projects > 20,000 m²

2015

Mandatory Architecture & Engineering BIM e-Submissions for all new building projects > 5,000 m²

**** will be calibrated in a gradual manner by taking into consideration the readiness of the industry practitioners and technology**

“十二五”建筑业信息化发展纲要

（一）总体目标

“十二五”期间，基本实现建筑企业信息系统的普及应用，加快建筑信息模型（BIM）、基于网络的协同工作等新技术在工程中的应用，推动信息化标准建设，促进具有自主知识产权软件的产业化，形成一批信息技术应用达到国际先进水平的建筑企业。

住房和城乡建设部 10/5/2011

<http://www.c-bm.com/news/2011/5-19/B16543600.shtml>