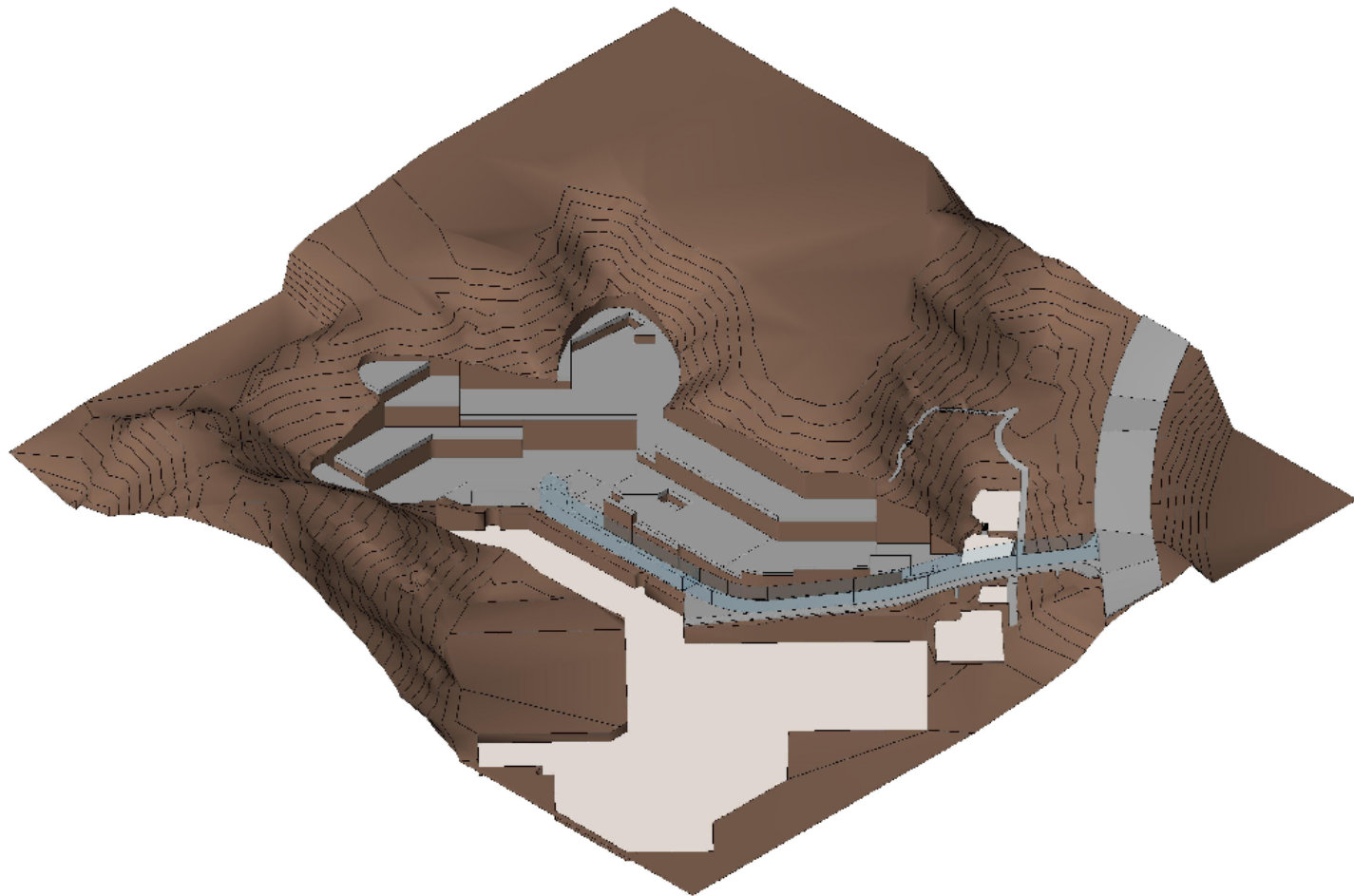




Revit Applications in Hong Kong Context

SITE HANDLING



① (3D)

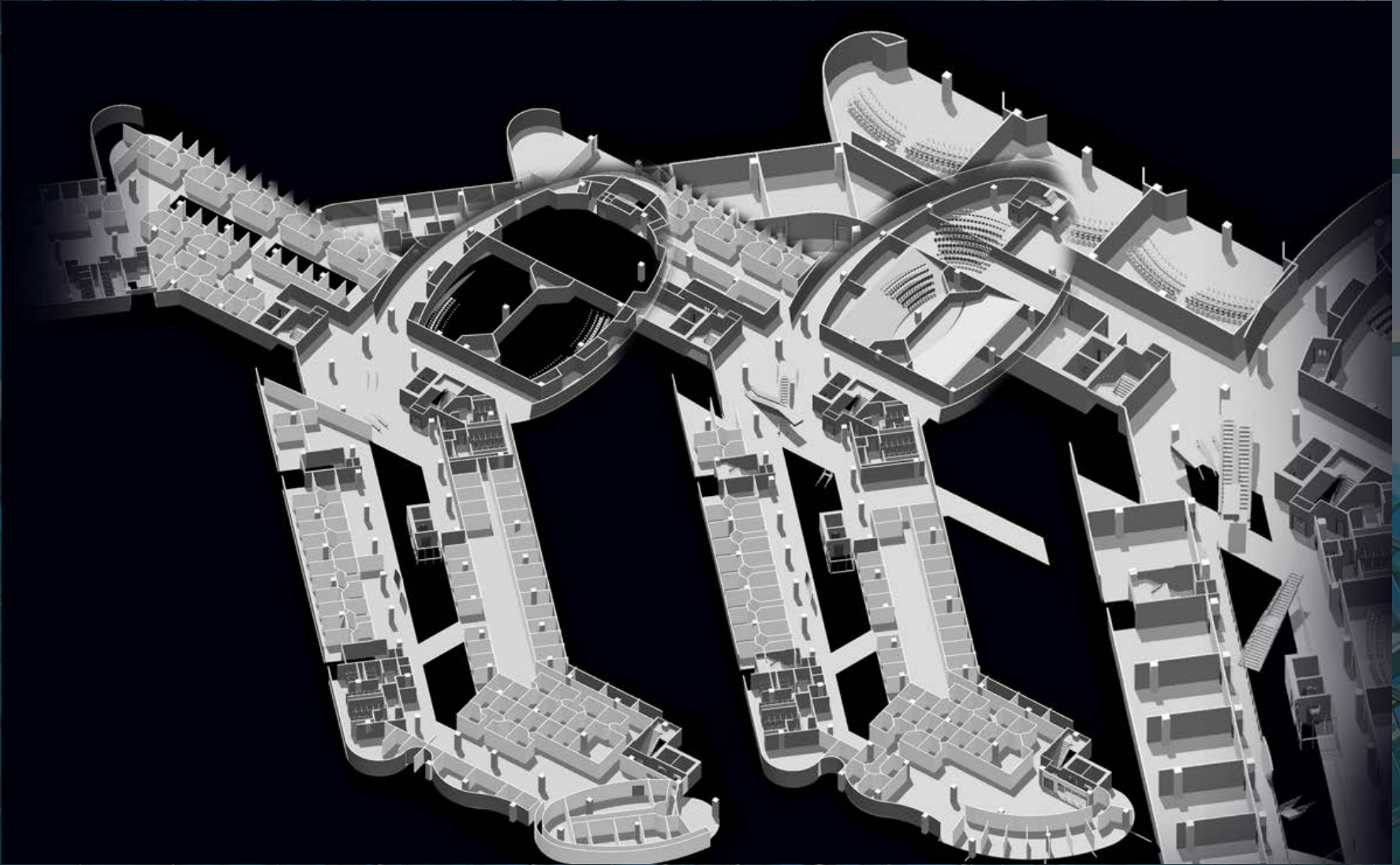


Community College of City University Building 595KE01 Option_1

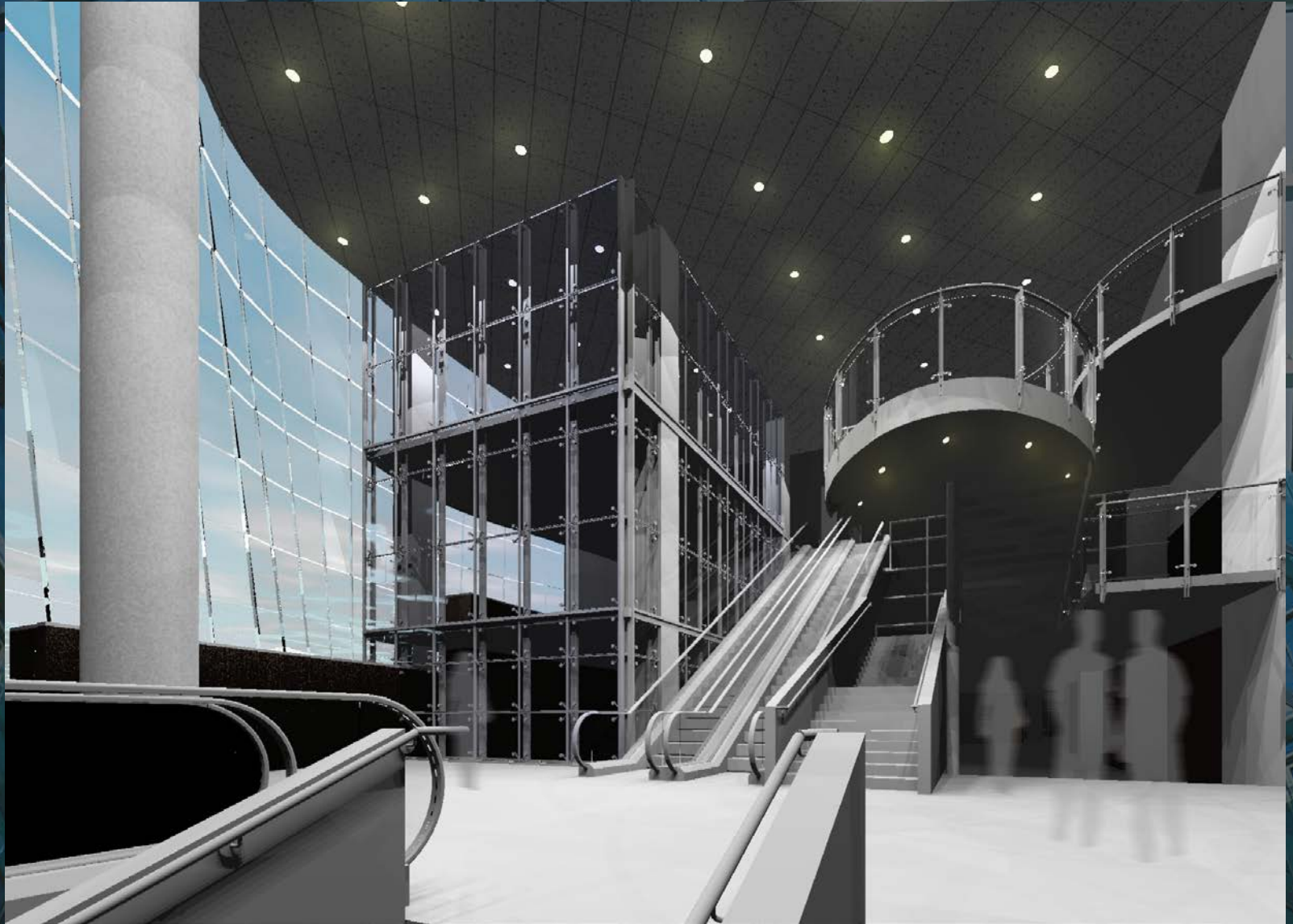
MARCH 2006



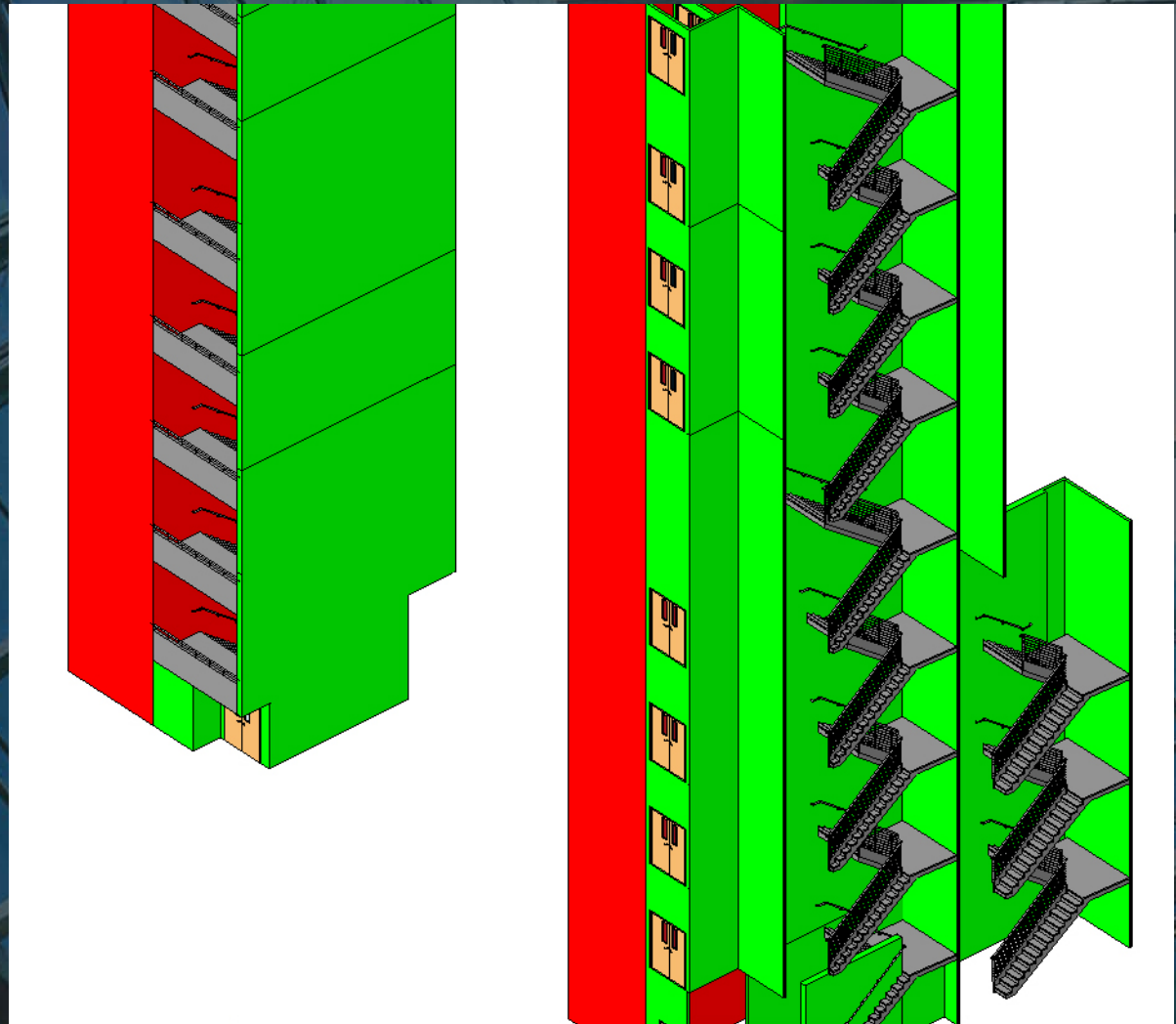
DIFFERENT DESIGN APPROACH



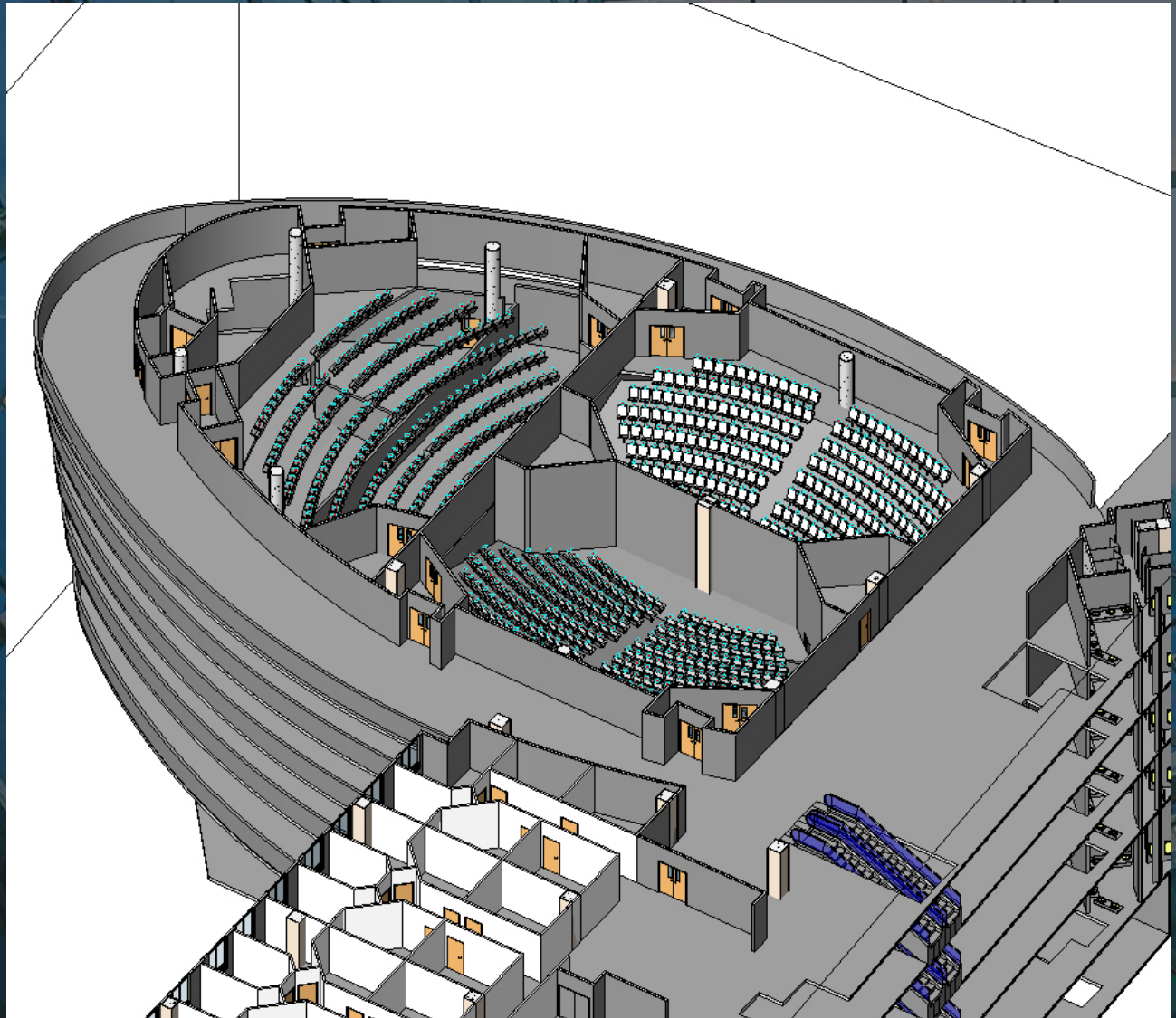
DIFFERENT DESIGN APPROACH

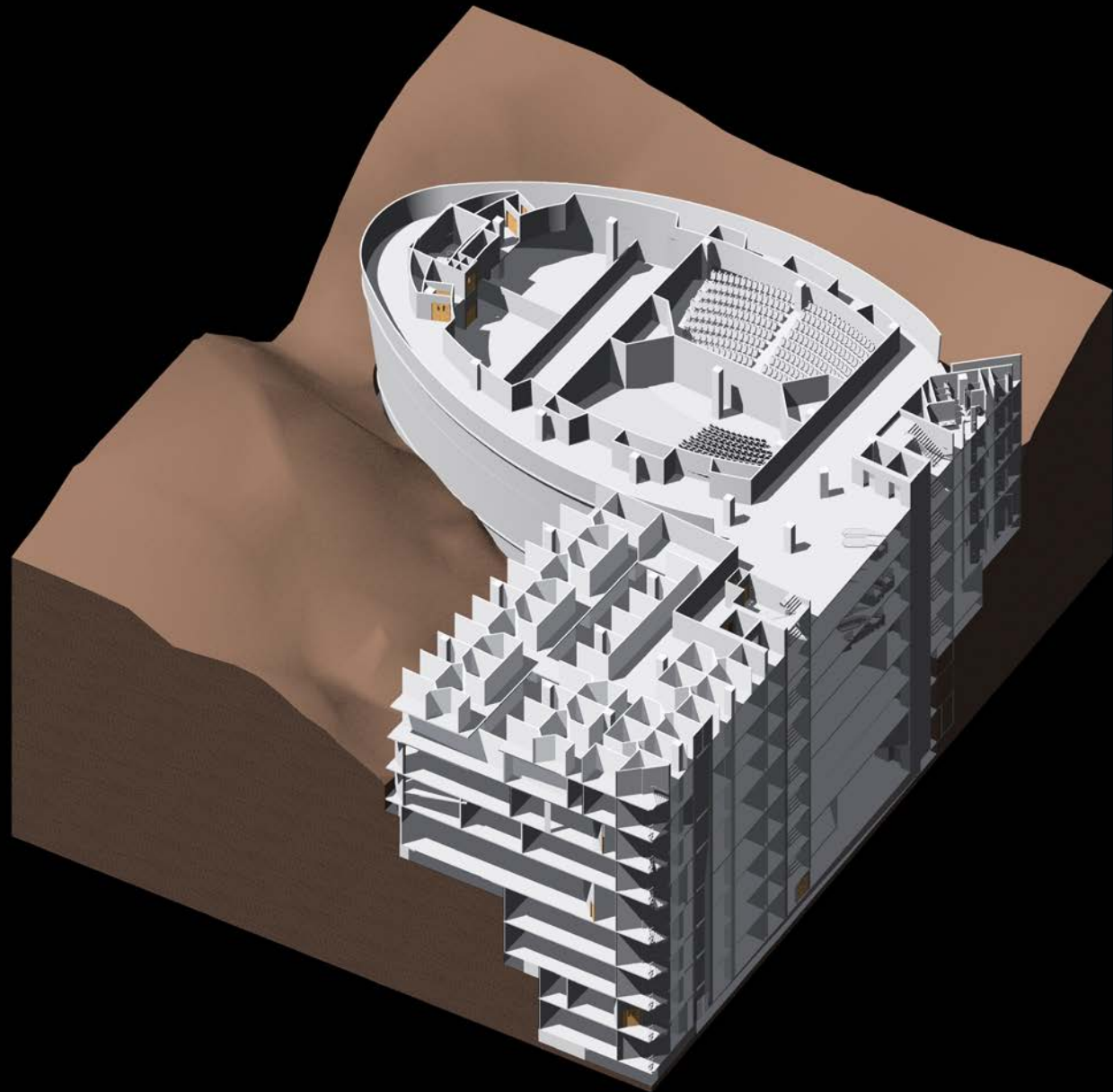


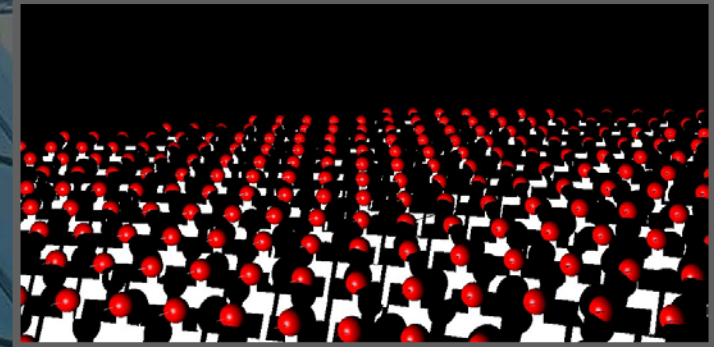
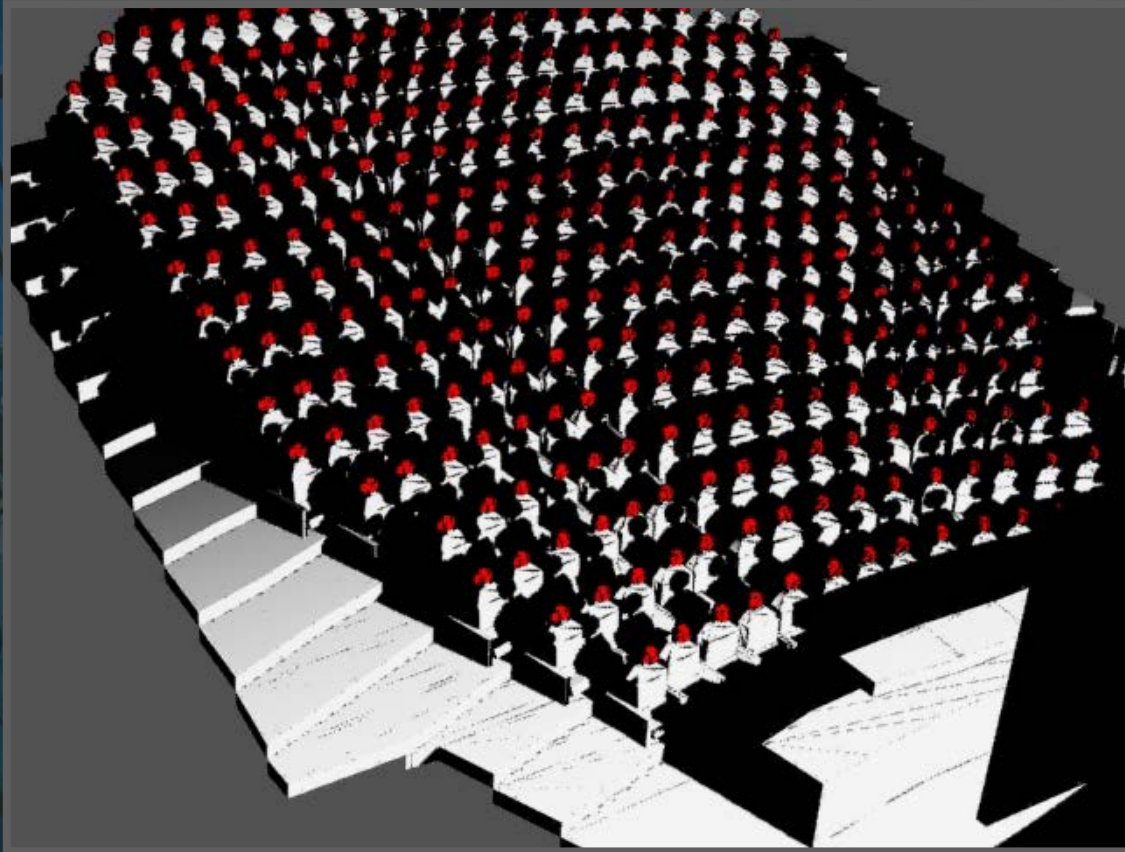
DIFFERENT DESIGN APPROACH



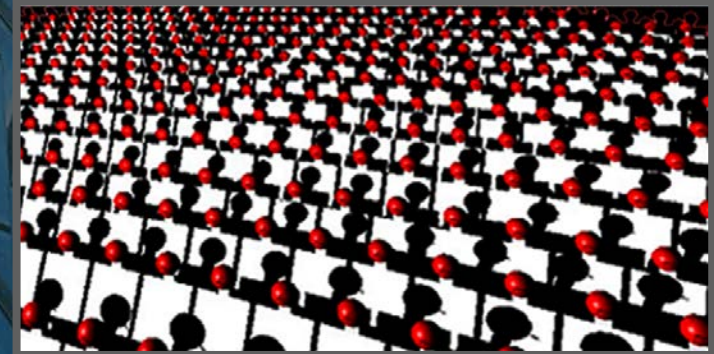
CREATIVE DESIGN TOOLS







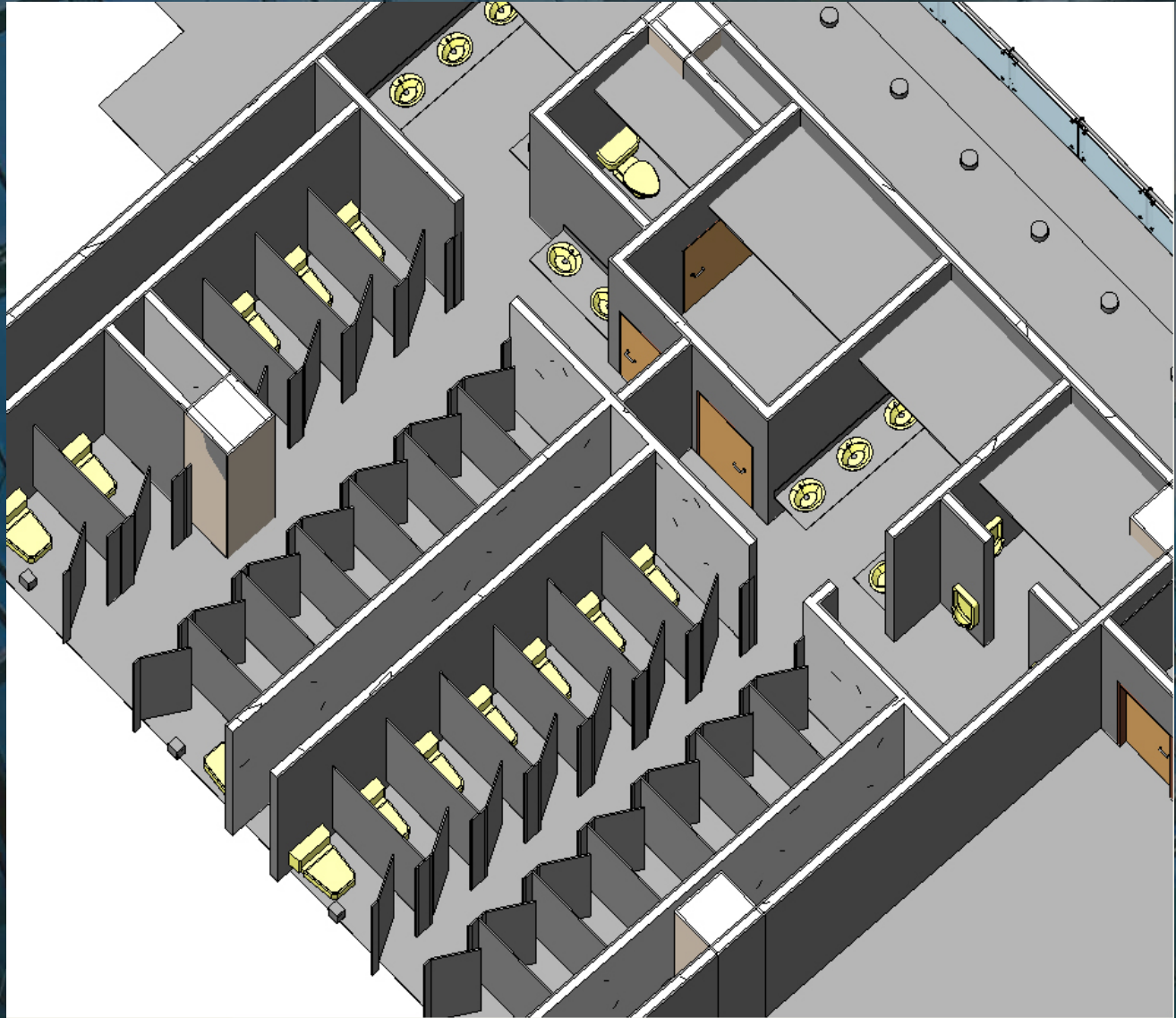
Unsatisfactory sightlines



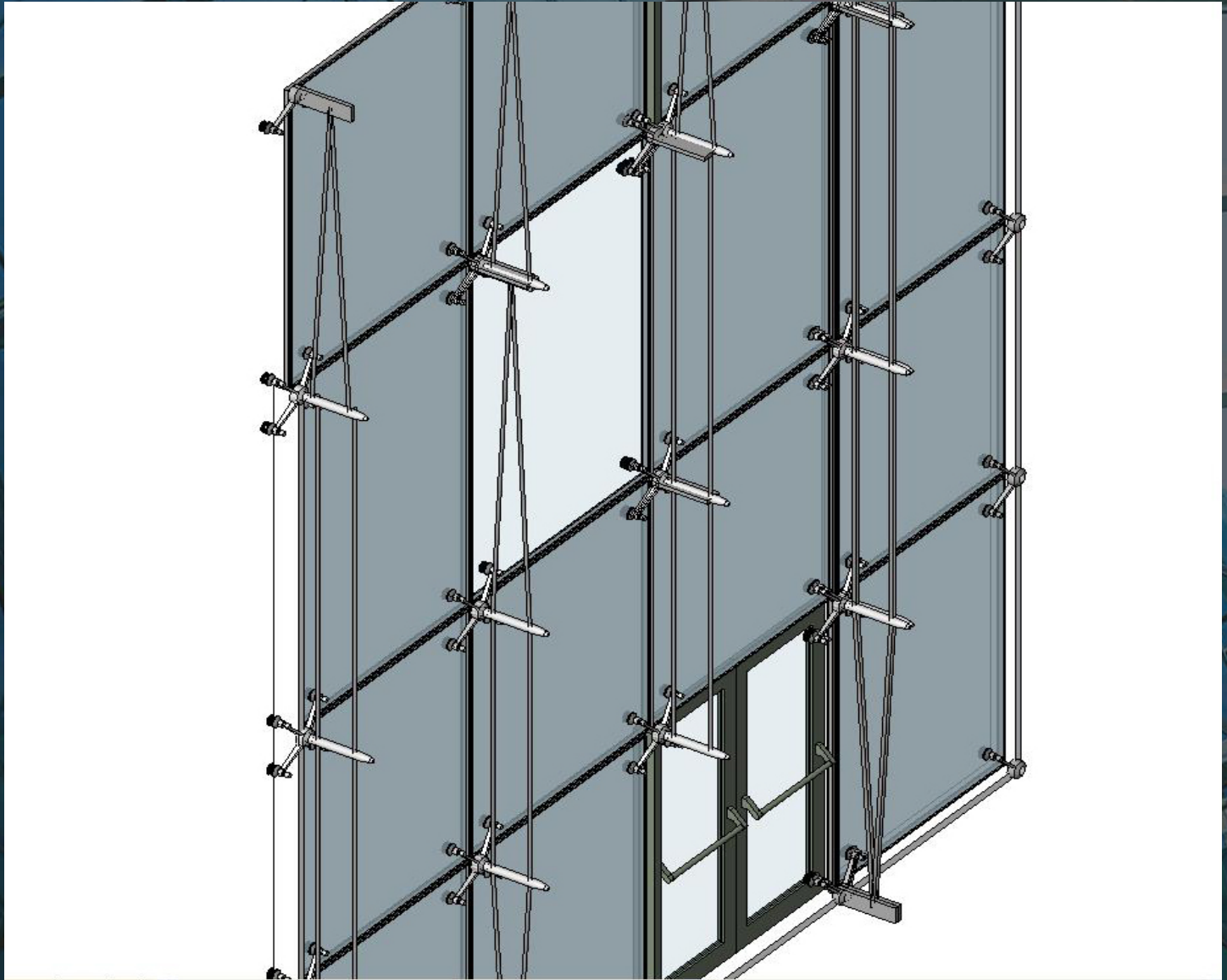
Satisfactory sightlines

Radiating Light Method

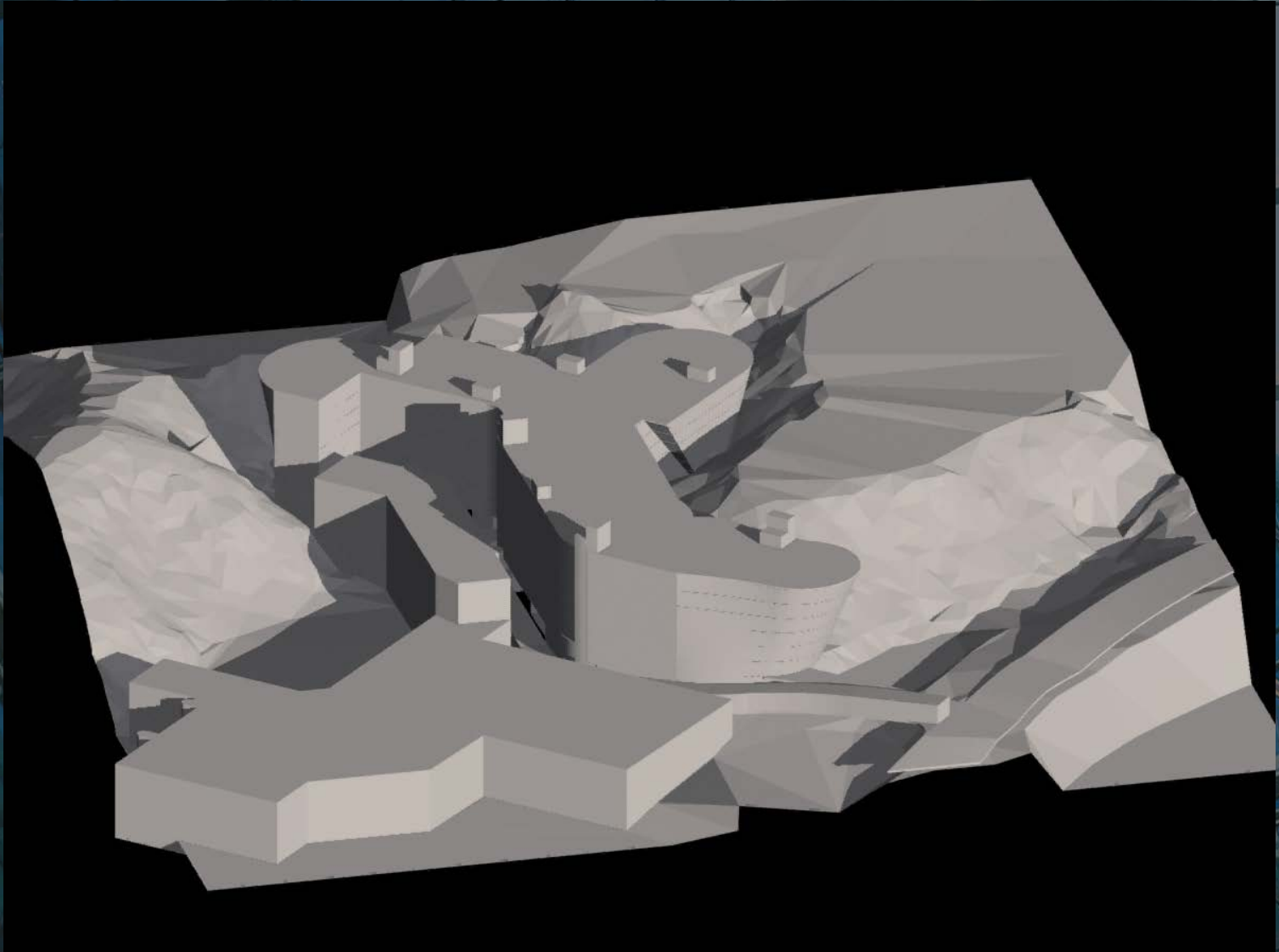
CREATIVE DESIGN TOOLS

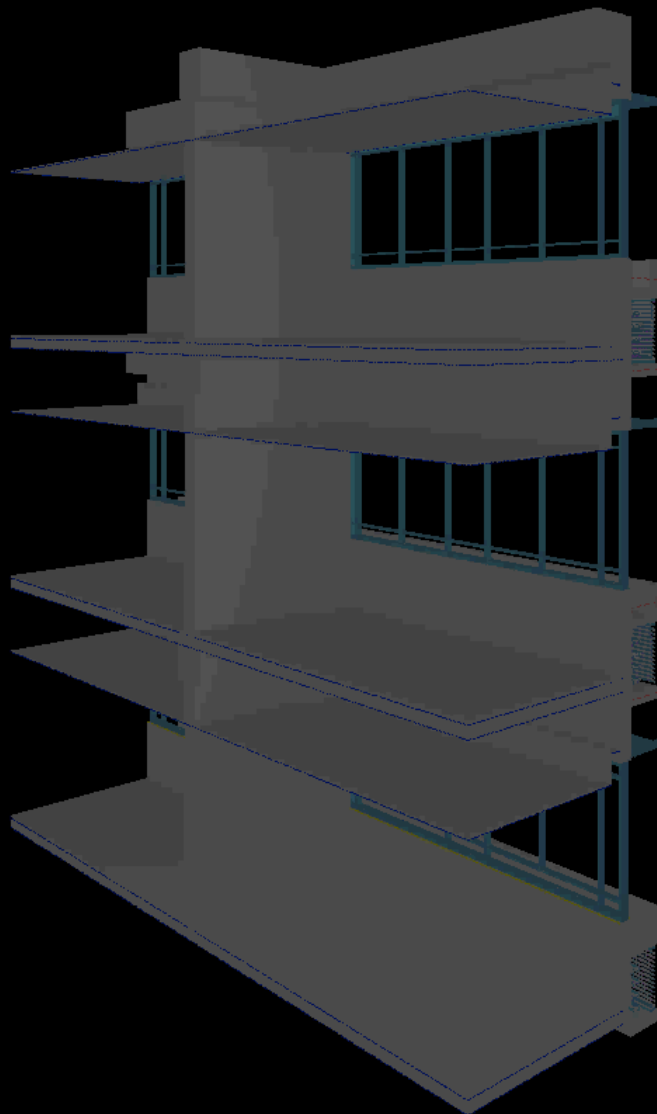


CREATIVE DESIGN TOOLS



SUN STUDY

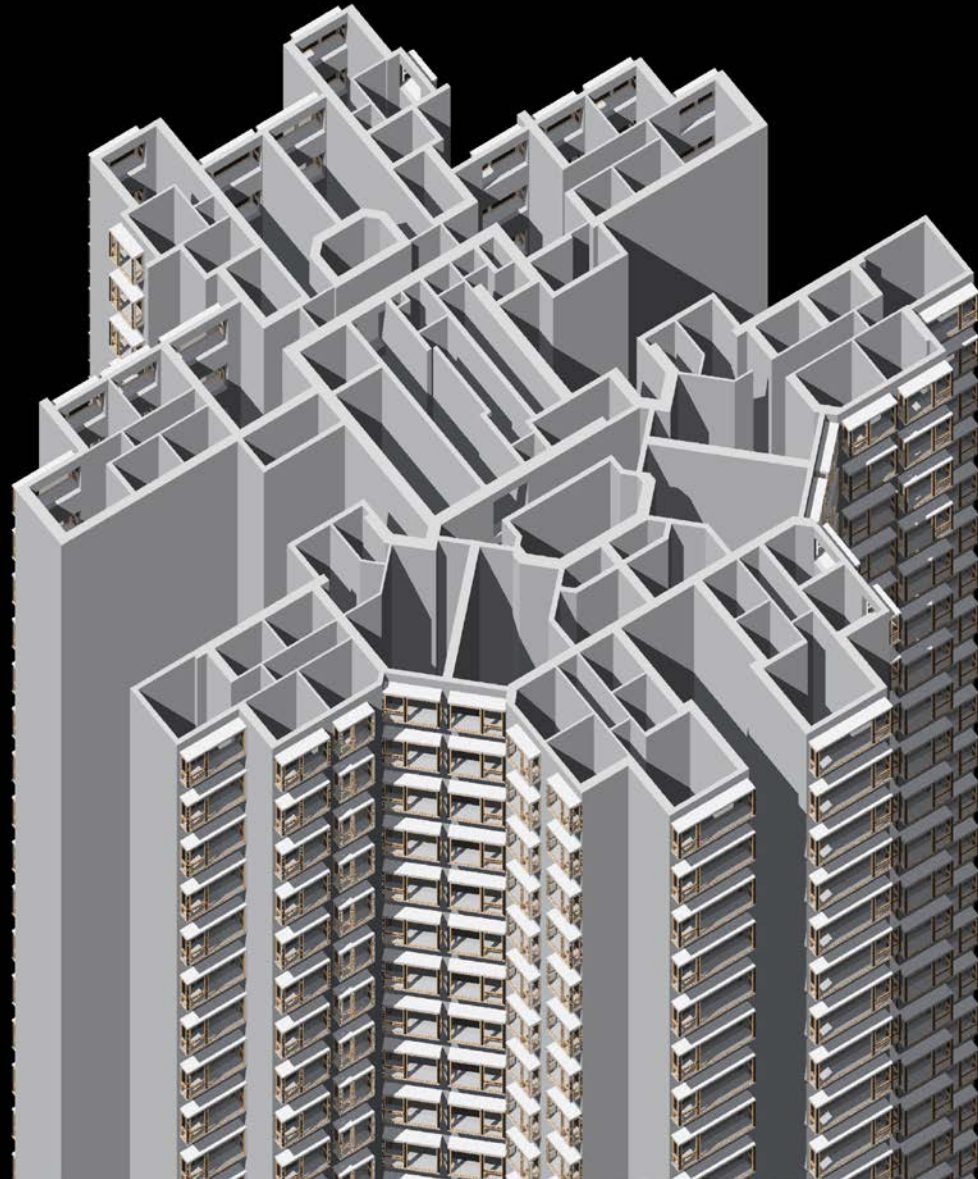




HONG KONG CONTEXT



PARAMETRIC MODELLING



API APPLICATION – STATUTORY SUBMISSION

levit Building 8.1 - [GBP HSK TEST.rvt - Schedule: SCHEDULE OF PERSONS FOR MEANS OF ESCAPE]

File View Modelling Drafting Site Tools Settings Window Help

3D Move Copy Rotate Array Mirror Group

Demolish Align Split Trim Offset

Headers: Group Ungroup Rows: New Delete Show Explain Error

Views (all)

- Floor Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
 - Site
- Ceiling Plans
 - Level 1
 - Level 2
 - Level 3
 - Level 4
- 3D Views
- Elevations (Build)
 - East
 - North
 - South
 - West
- Area Plans (FRC)
 - Level 1
 - Level 2
- Area Plans (GFA)
 - Level 1
 - Level 2
- Area Plans (Site)
 - Level 1
- Area Plans (Site)
 - Level 2
- Area Plans (UFA)
 - Level 1
 - Level 2
 - Level 3
 - Level 4
- Legends
- Schedules/Quan
 - Area Schedule (I
 - Checking for GF
 - Checking for Site
 - Checking for Site

SCHEDULE OF PERSONS FOR MEANS OF ESCAPE

LOCATION	USE	USERABLE FLOOR AREA	MOE PERMITTED CAPACITY	ROOM CAPACITY	MIN. NO. OF EXIT ROUTE		MIN. TOTAL WIDTH OF				MIN. WIDTH OF EACH			
					REQ'D	PRO'D	EXIT DOORS		EXIT ROUTES		EXIT DOOR		EXIT ROUTE	
							REQ'D	PRO'D	REQ'D	PRO'D	REQ'D	PRO'D	REQ'D	PRO'D
Level 1	Area	7.525 m²	9	1	1		-		-		-		-	
Level 1	Area	18.875 m²	9	3	1		-		-		-		-	
Level 1	Area	15.666 m²	9	2	1		-		-		-		-	
Level 1	Area	5.249 m²	30	1	1		-		-		-		-	
Level 1	Area	19.250 m²	9	3	1		-		-		-		-	
Level 1	Area	19.338 m²	9	3	1		-		-		-		-	
Level 1	Area	115.275 m²	2	58	2		1750		2100		850		1050	
Level 1	Area	11.457 m²	30	1	1		-		-		-		-	
Level 2	Area	162.541 m²	0.5	326	2		3000		3000		1050		1050	
Level 2	Area	64.125 m²	9	8	1		-		-		750		1050	
Level 2	Area	16.172 m²	2	9	1		-		-		750		1050	
Level 2	Area	15.898 m²	2	8	1		-		-		750		1050	
Level 2	Area	15.630 m²	2	8	1		-		-		750		1050	
Level 2	Area	36.979 m²	30	2	1		-		-		-		-	
Level 2	Area	31.840 m²	30	2	1		-		-		-		-	
Level 2	Area	38.016 m²	30	2	1		-		-		-		-	
Level 2	Area	9.435 m²	9	2	1		-		-		-		-	
Level 2	Area	15.529 m²	2	8	1		-		-		750		1050	
Level 2	Area	25.553 m²	2	13	1		-		-		750		1050	
Level 2	Area	8.707 m²	30	1	1		-		-		-		-	
Level 2	Area	3.376 m²	30	1	1		-		-		-		-	
Level 2	Area	9.757 m²	30	1	1		-		-		-		-	
Level 3	Area	51.893 m²	2	26	1		-		-		750		1050	
Level 3	Area	14.416 m²	2	8	1		-		-		750		1050	
Level 3	Area	16.900 m²	2	9	1		-		-		750		1050	
Level 3	Area	6.669 m²	30	1	1		-		-		-		-	
Level 3	Area	21.797 m²	2	11	1		-		-		750		1050	
Level 3	Area	5.890 m²	30	1	1		-		-		-		-	
Level 3	Area	21.067 m²	2	11	1		-		-		750		1050	
Level 3	Area	5.458 m²	30	1	1		-		-		-		-	
Level 3	Area	27.611 m²	30	1	1		-		-		-		-	
Level 3	Area	27.611 m²	30	1	1		-		-		-		-	
Level 3	Area	69.648 m²	2	35	2		1750		2100		850		1050	
Level 3	Area	181.432 m²	0.5	363	2		3000		3000		1050		1050	
Level 3	Area	12.509 m²	30	1	1		-		-		-		-	
Level 4	Area	14.616 m²	30	1	1		-		-		-		-	

API APPLICATION – STATUTORY SUBMISSION

Autodesk Revit Building 8.1 - [GBP Template 01.rvt - Area Plan (Site Area): G/F]

File Edit View Modelling Drafting Site Tools Settings Window Help

Press + Drag

Views (all)

- Floor Plans
 - 1/F
 - 2/F
 - 3/F
 - 4/F
 - 5/F
 - 6/F
 - 7/F
 - 8/F
 - 9/F
 - 10/F
 - 11/F
 - 8/F
 - G/F
 - Site
 - TOP ROOF
- Ceiling Plans
 - 1/F
 - G/F
- 3D Views
- Elevations (Build)
 - East
 - North
 - South
 - West
- Area Plans (FRC)
 - 1/F
 - G/F
- Area Plans (GFA)
 - 1/F
 - G/F
- Area Plans (Site)
 - G/F**
- Area Plans (Site)
 - 1/F
- Area Plans (UFA)
 - 1/F
 - 2/F
 - 3/F
 - 4/F
 - 5/F
 - 6/F
 - 7/F
 - 8/F
 - 9/F
 - 10/F
 - 11/F
 - 8/F
 - G/F

View

Modelling

Drafting

Rendering

Site

Massing

Area Analysis

CLASS OF SITE: C

SITE AREA (SQ.M): 310.074

BUILDING HEIGHT (M): 55

PERMITTED NON-DOMESTIC SC (%): 70

PERMITTED DOMESTIC SC (%): 42

PERMITTED NON-DOMESTIC PR: 12.6

PERMITTED DOMESTIC PR: 7.5

DEDICATED AREA AT G/F (SQ.M): 7.52

DEDICATED AREA AT FLOORS OTHER THAN G/F (SQ.M): 0

BONUS SC (%): $(7.52+0) \times 1500 / (55 \times 310.074)$
0.661

BONUS PR: $7.52 / 310.074 \times 5 + 0 / 310.074 \times 2$ (MAX. 20% OF PR)
0.121

ACTUAL SITE COVERAGE (SQ.M): 118.45

ACTUAL SITE COVERAGE IN %: $38.201 < 42.661$

ACTUAL NON-DOMESTIC GFA (SQ.M): 118.719

ACTUAL NON-DOMESTIC PR: 0.383

REMAINING DOMESTIC PR: $(12.6 - 0.383) \times 7.5 / 12.6 + 0.121$
7.393

ACTUAL DOMESTIC GFA (SQ.M): 118.45

ACTUAL NON-DOMESTIC PR: $0.382 < 7.393$

1 : 50

Ready

start

Autodesk Architect...

Inbox - Microsoft ...

Microsoft Word

Microsoft Excel - ...

Autodesk Revit Bu...

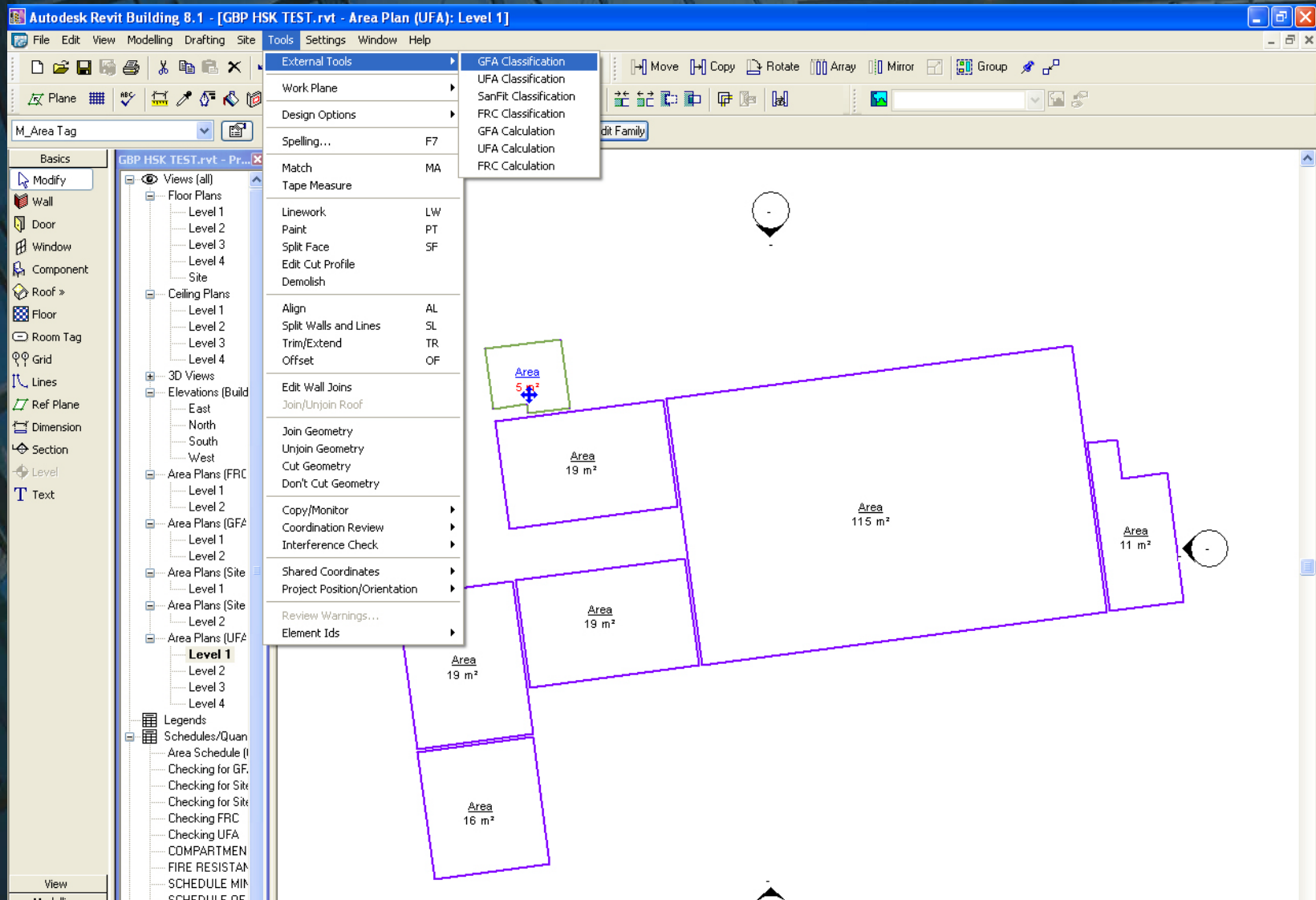
Adobe Photoshop

Desktop >> EN

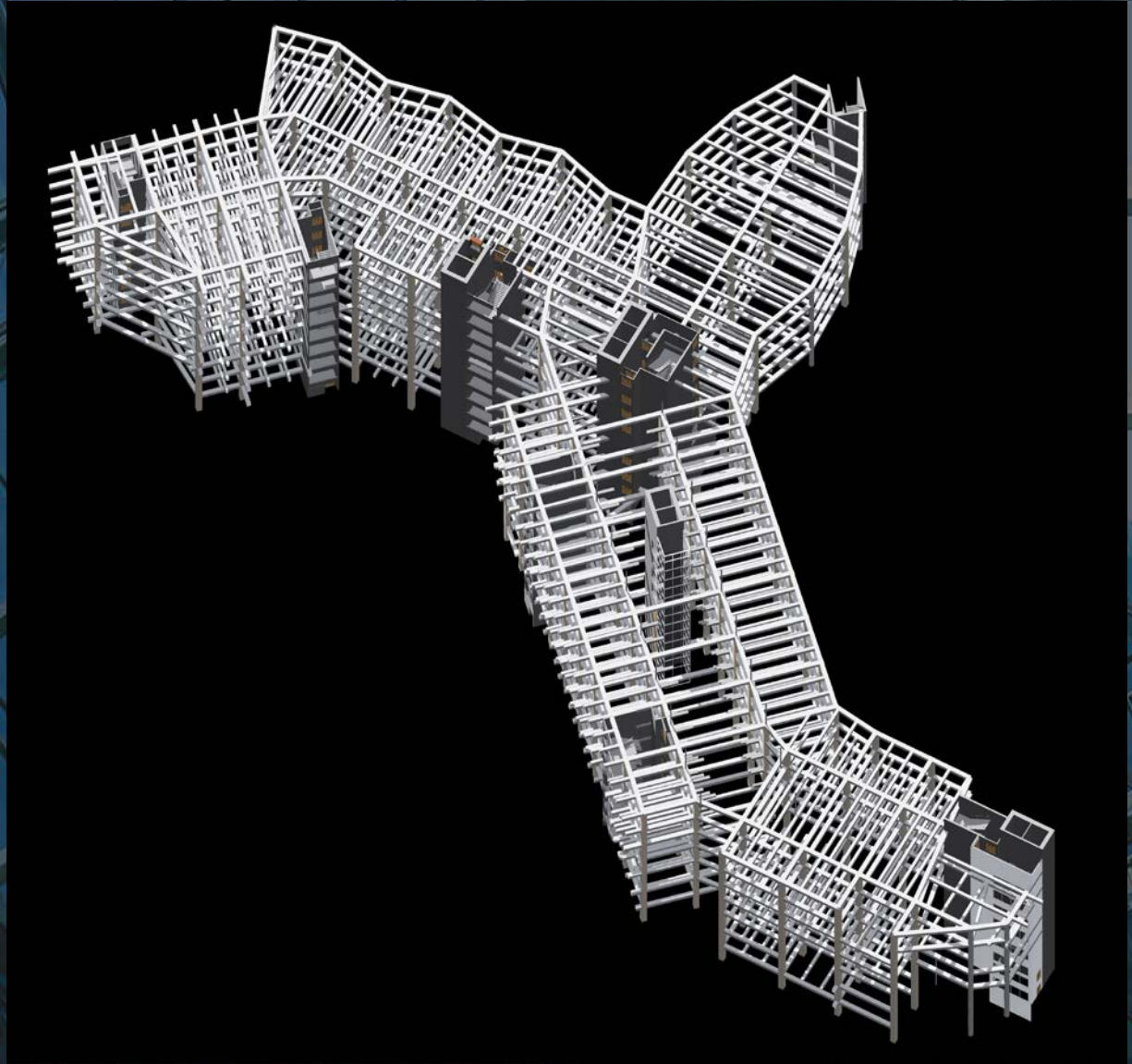
NUM

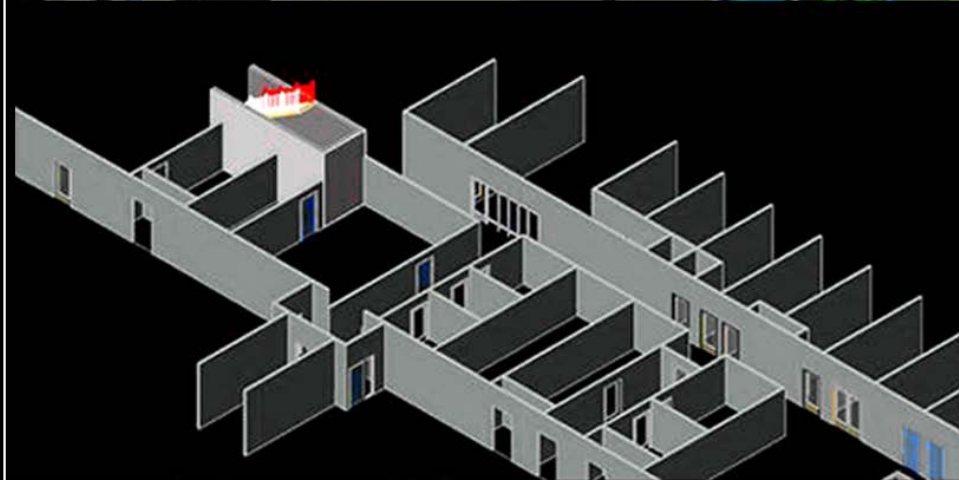
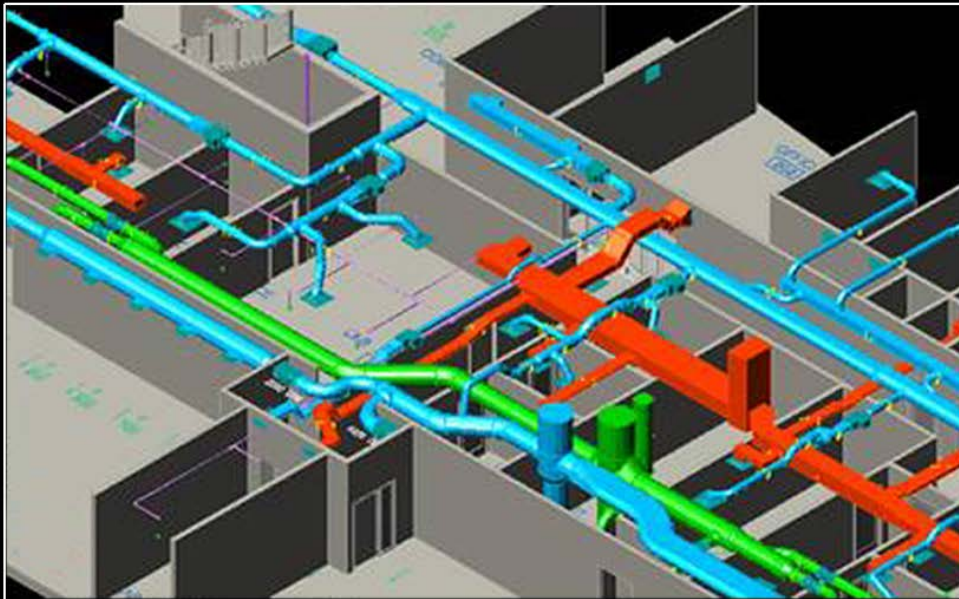
4:32 PM

API APPLICATION – STATUTORY SUBMISSION



DISCIPLINES INTEGRATION





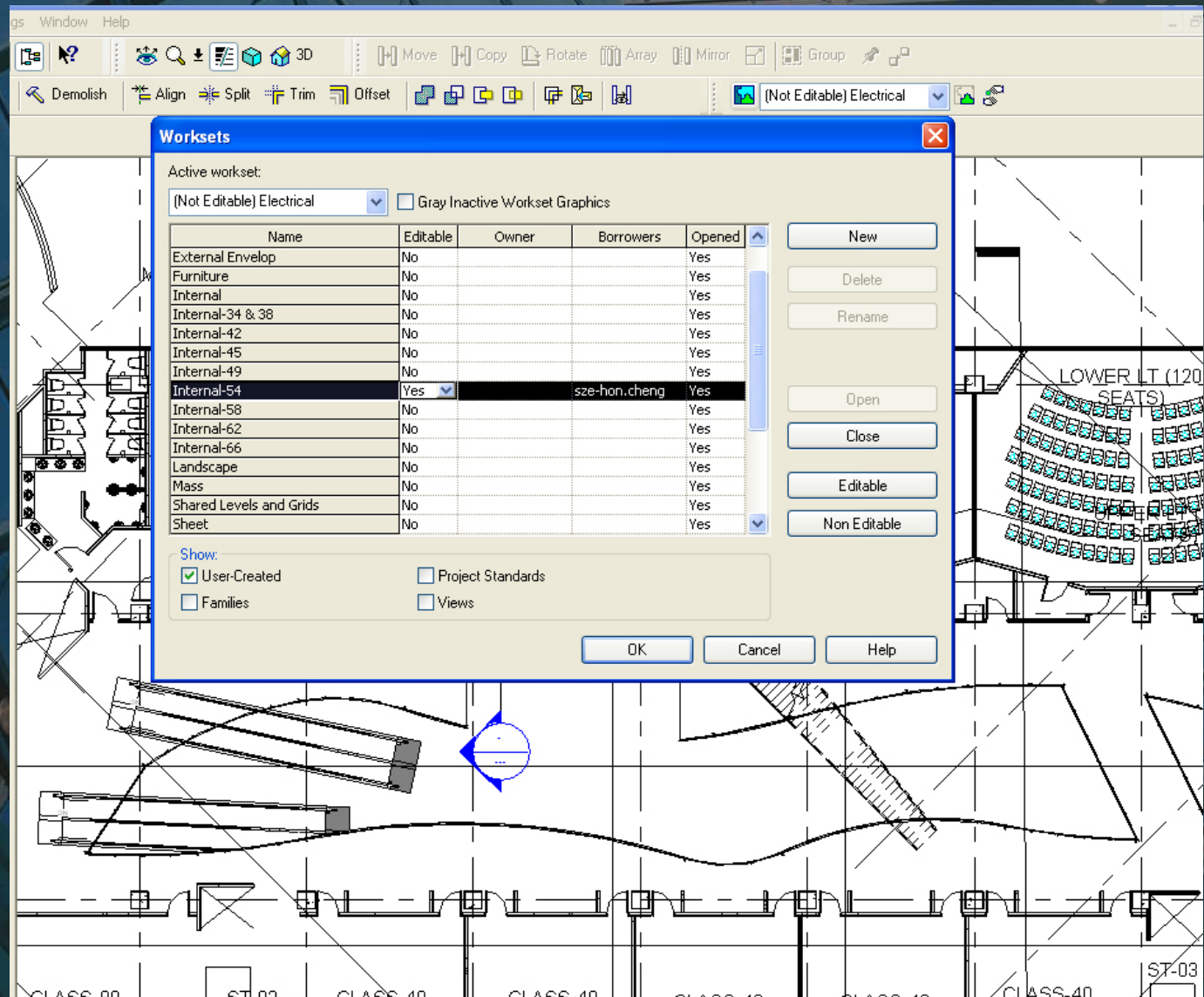
Clash Analysis

***Full set of construction
Combined Services Drawings
produced***

Close-up collaboration

3D DESIGN COLLABORATION

WORK SETS



WORKING ENVIRONMENT





Thank You...