

# **SAMPLE OF WORKS**

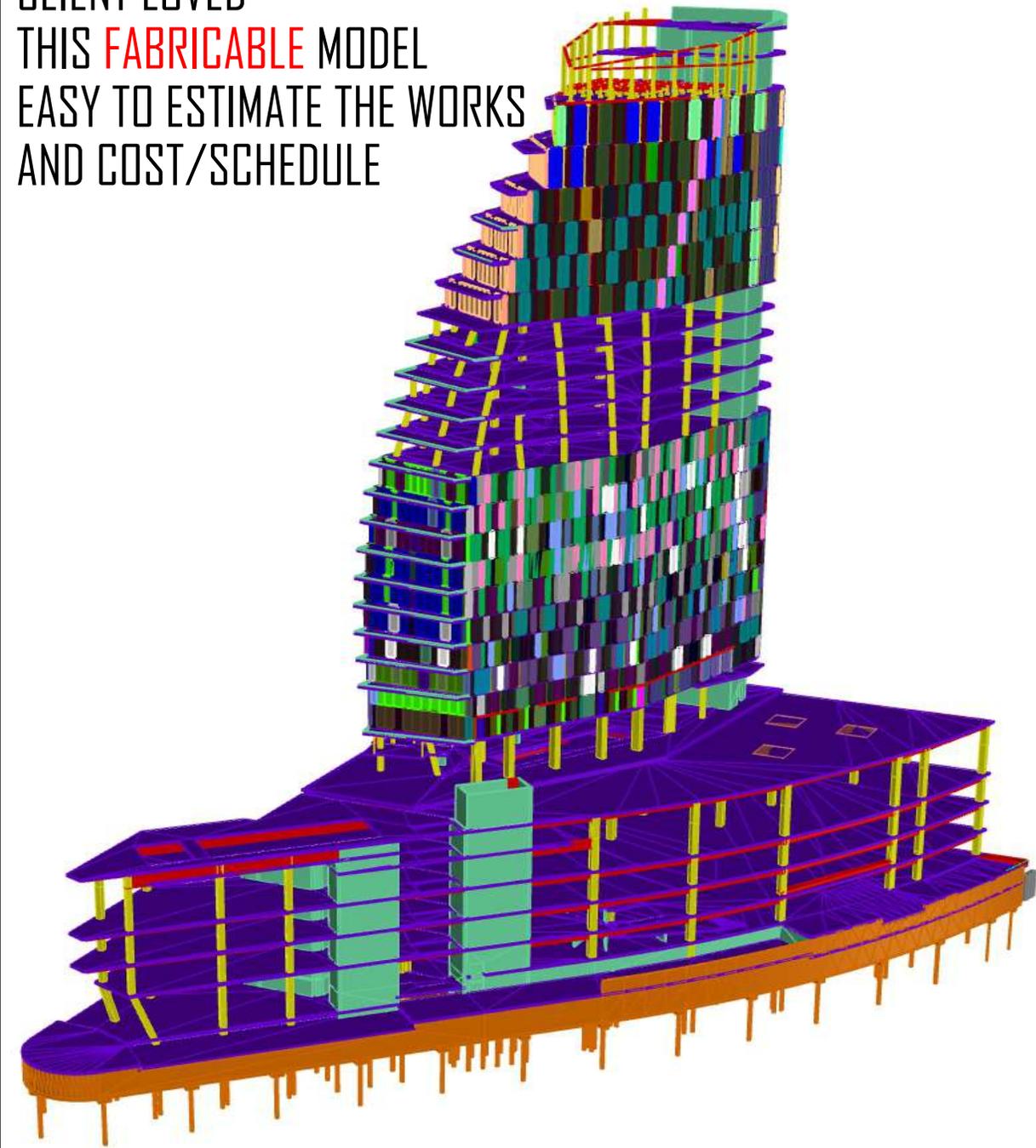
**30/60 FRONT STREET Page 2~6**

**SOHAR BANK Page 7~11**

**AL WASL PLAZA Page 12~14**

**PROJECTS Page 15~26**

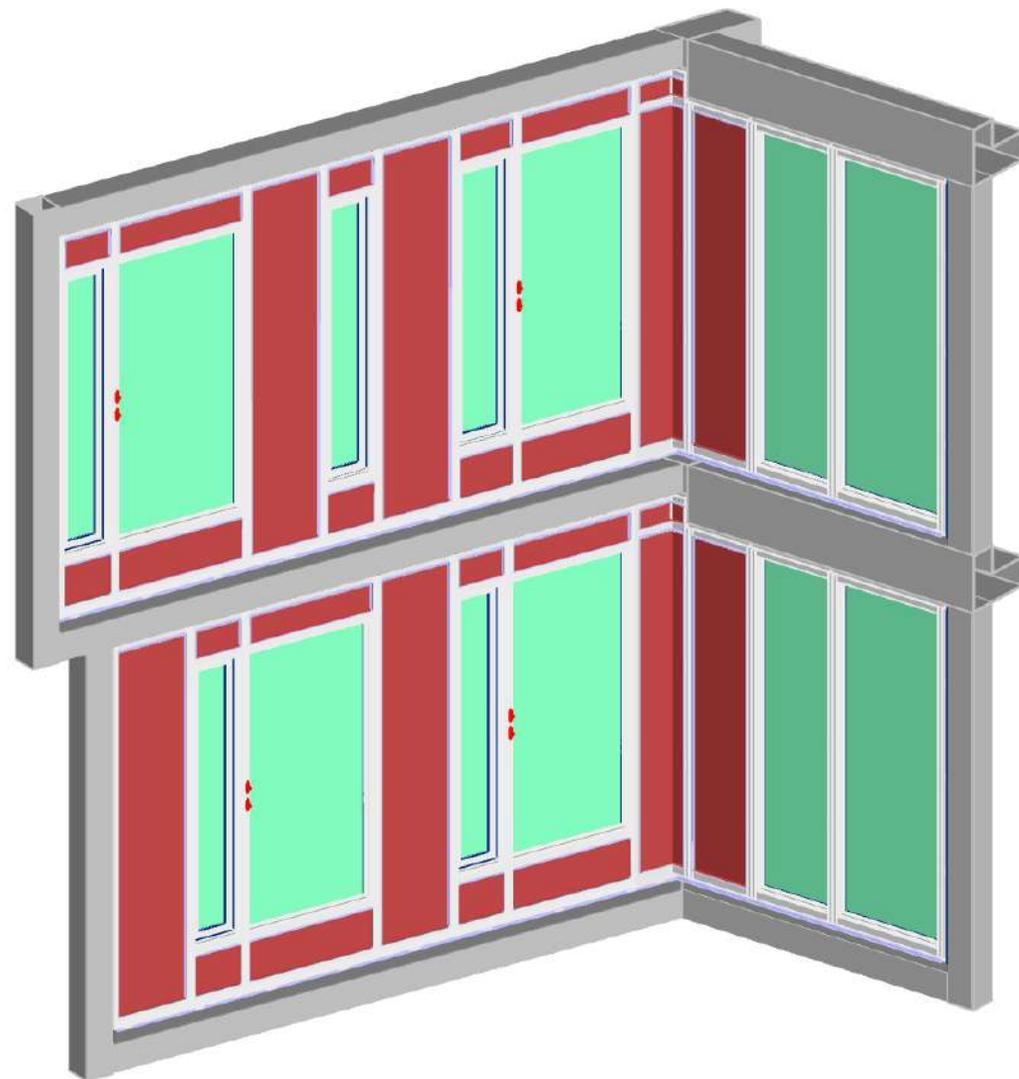
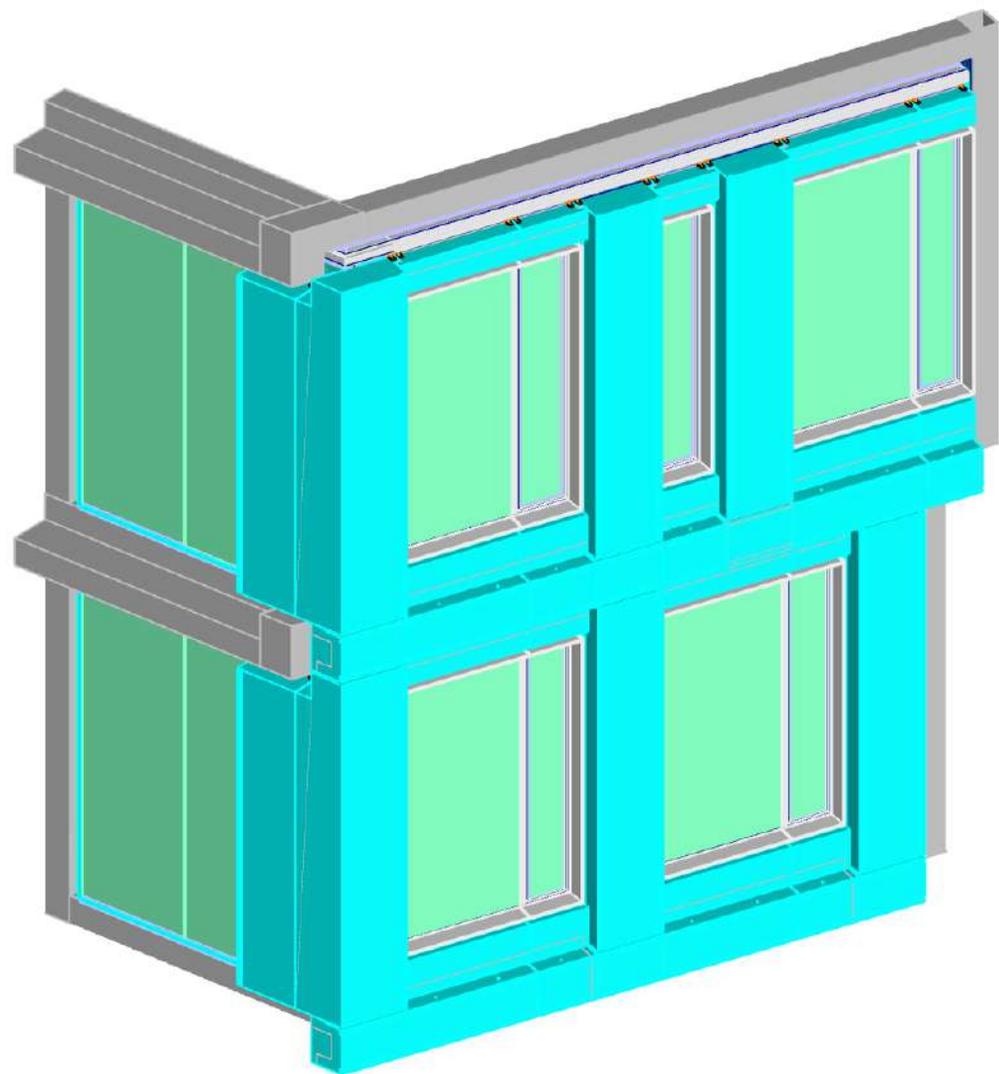
CLIENT LOVED  
THIS **FABRICABLE** MODEL  
EASY TO ESTIMATE THE WORKS  
AND COST/SCHEDULE

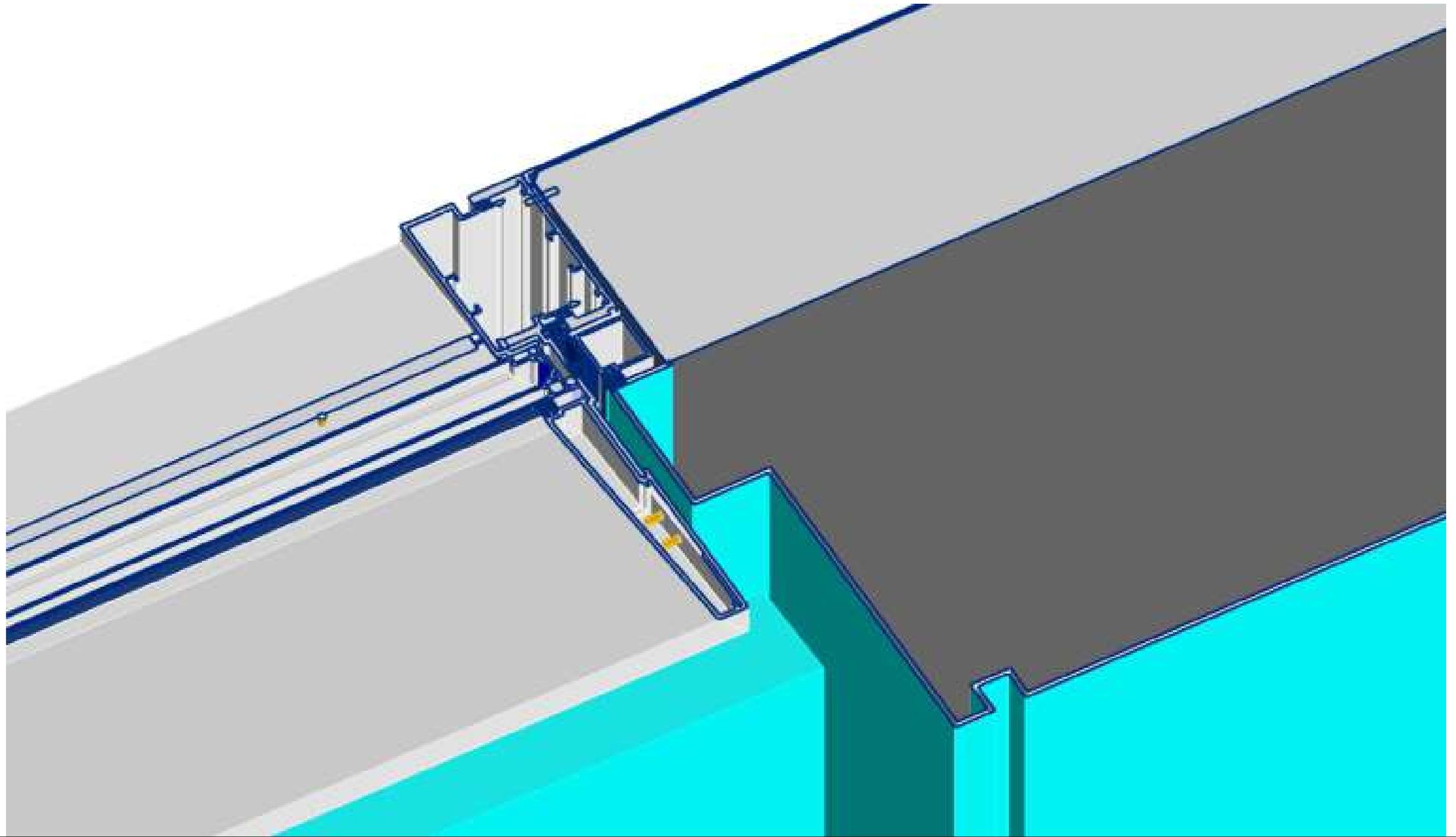


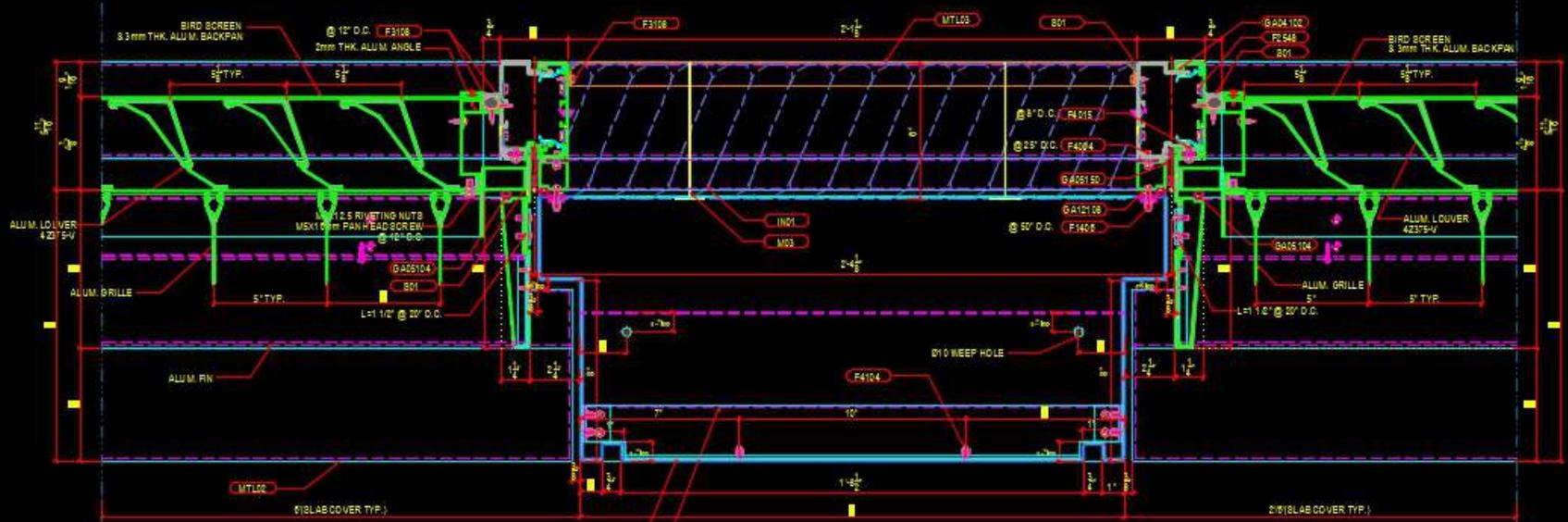
OLYMPIA DUMBO 30 FRONT  
NEW YORK



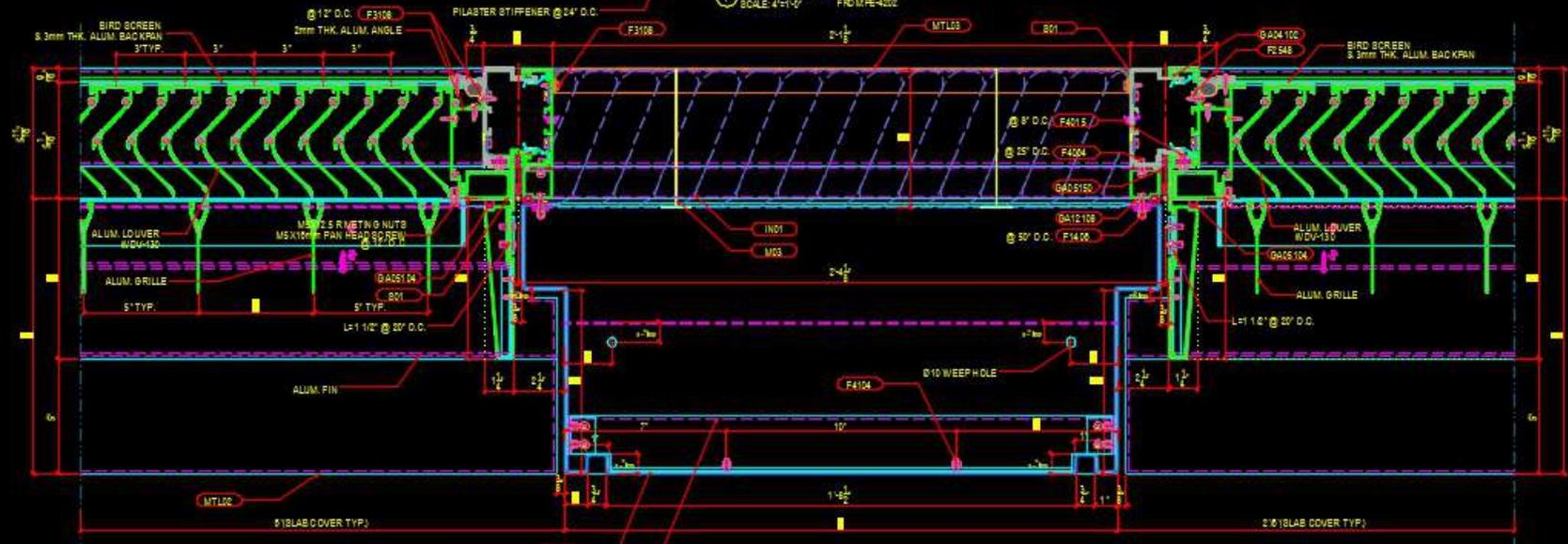
Fabrication modelling







1 VERTICAL LOUVER & PILASTER  
SCALE: 4"=1'-0"  
FROM MPE-4002



2 VERTICAL LOUVER & PILASTER  
SCALE: 4"=1'-0"  
FROM MPE-4002

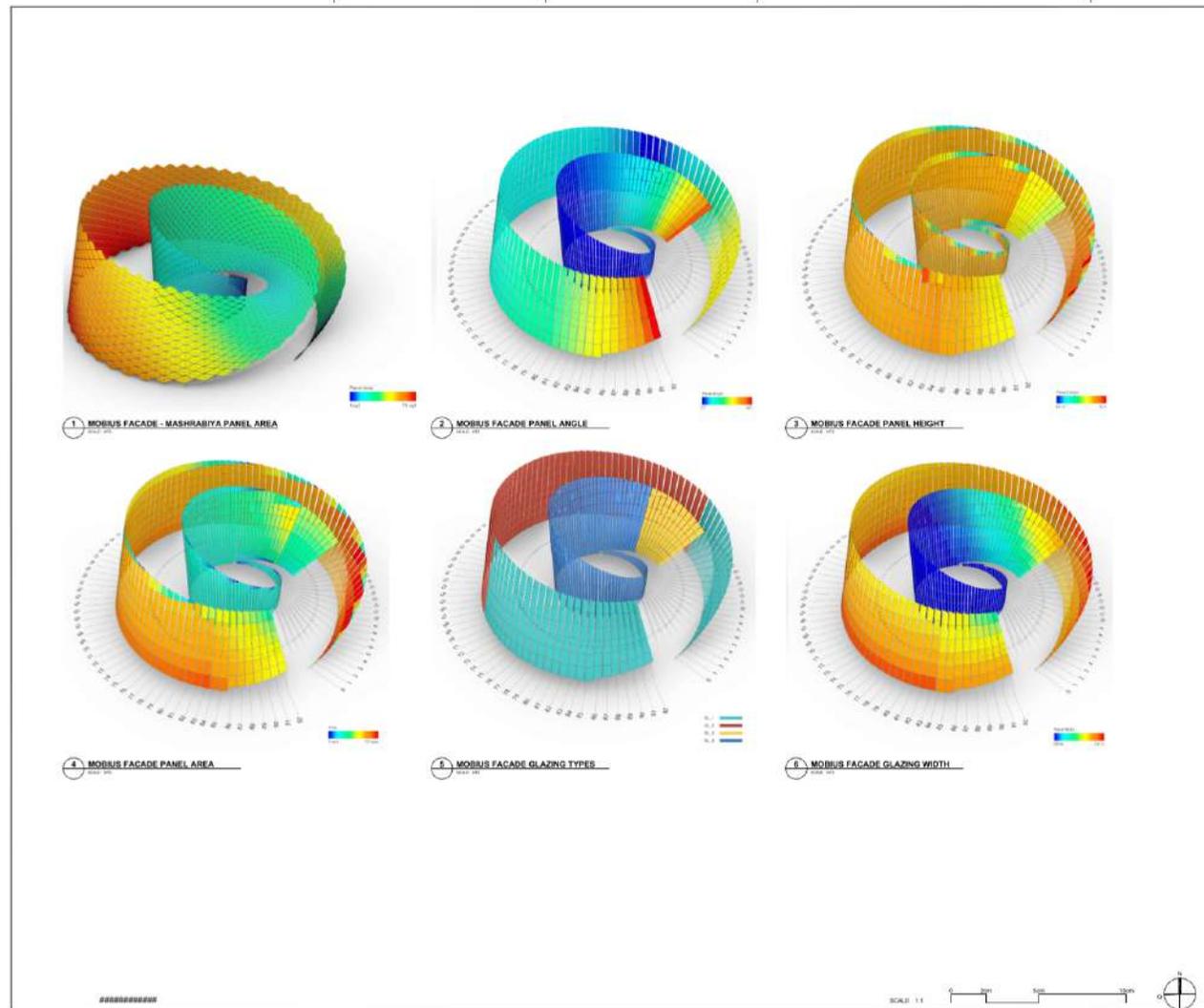
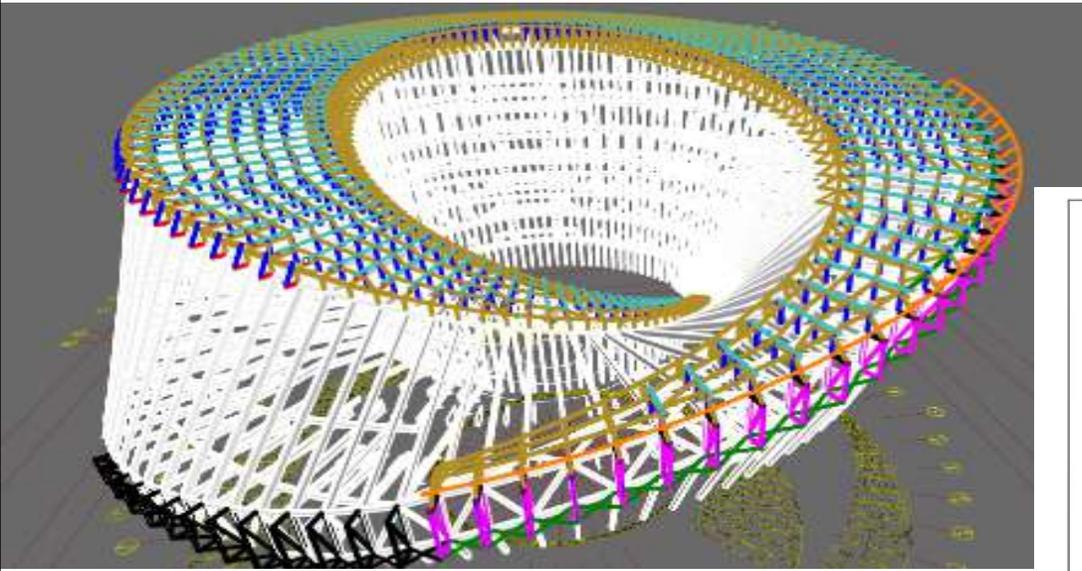


# SOHAR BANK (OMAN)

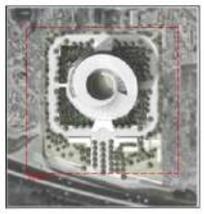
NO ONE COULD PROVIDE THIS LEVEL OF TECHNICAL SOLUTION  
IN THE LOCAL MARKET OF OMAN

EVEN THOUGH YUANDA/JANGHO ARE CAPABLE.  
THEY ARE IMPATIENT FOR THE SMALL SCALE BUT COMPLICATED  
BUILDINGS, WON'T STAY FOCUSED WITH THE CLIENT  
TILL THE END

HAE ALWAYS FOCUS & KEEP R&D OF VALUE  
ENGINEERING, SAVE AS MUCH AS POSSIBLE  
FOR THE PROJECTS



SOHAR INTERNATIONAL  
HEAD OFFICE BUILDING  
MUSCAT  
SULTANATE OF OMAN



NOTES:  
THESE DRAWINGS SHOW THE ARCHITECTURAL INTENT AND ARE TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND RELEVANT DOCUMENTS.  
EXPLORE MATERIAL SPECIFICATIONS AND FIGURED DIMENSIONS DEFINING THE EXTERIOR ENVELOPE OF THE INDICATED FORMS ARE TO BE ADHERED TO.

NO.	REVISION	DATE

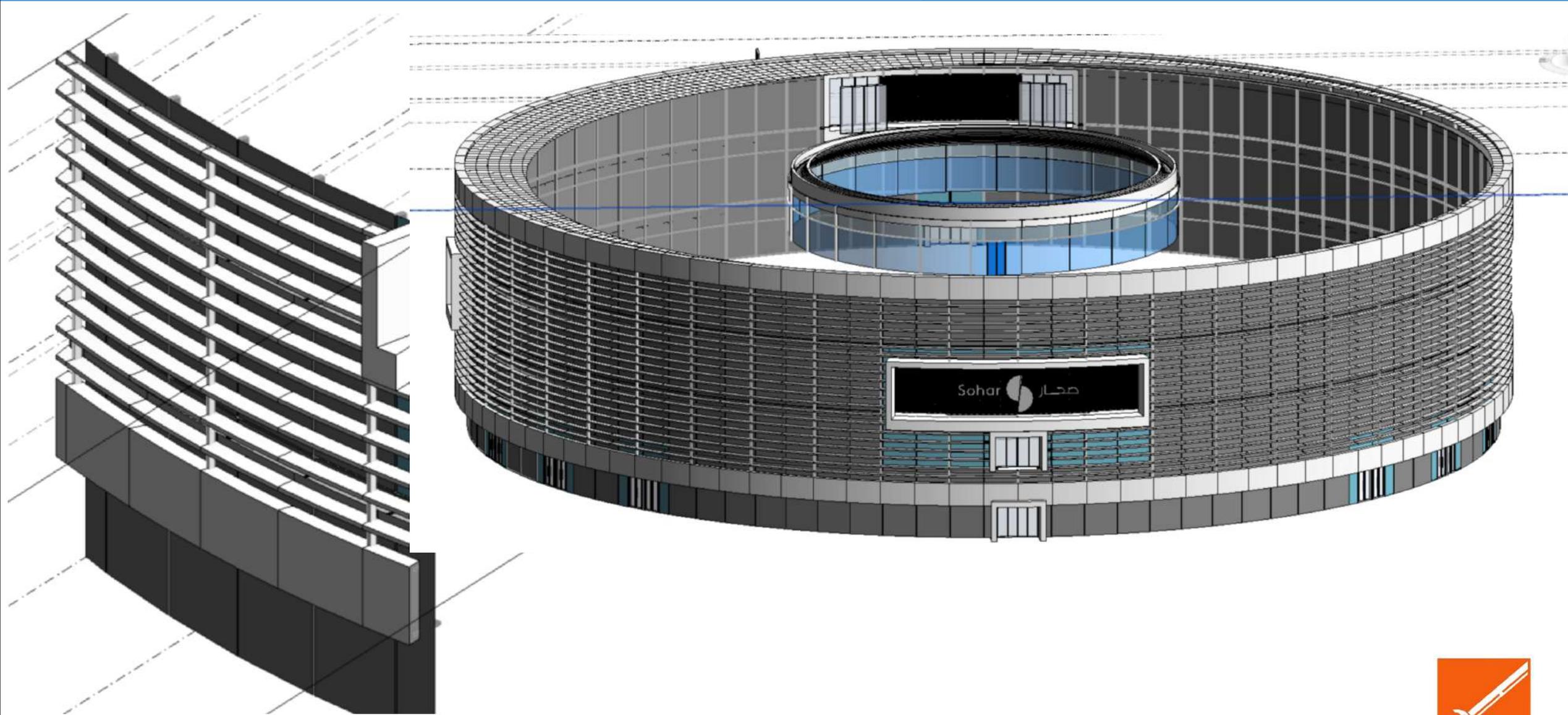
CALATRAVA INTERNATIONAL  
ARCHITECTS & ENGINEERS



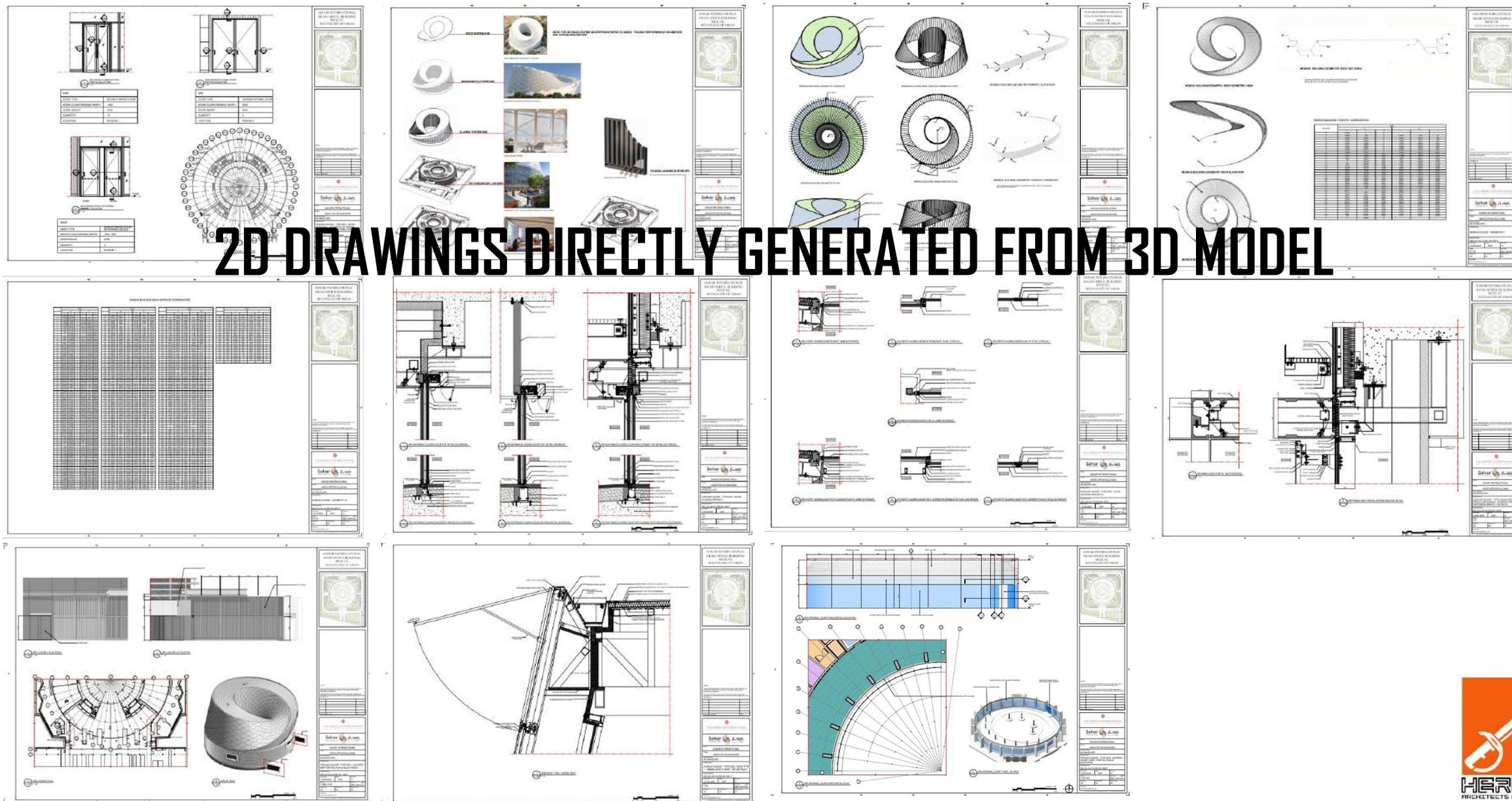
Client: SOHAR INTERNATIONAL  
Project: HEAD OFFICE BUILDING  
Drawing Title: 07 ENVELOPE  
Drawing Name: MOBIVS FACADE GEOMETRY

Drawing Number: 382-PR-03-FA-00-06-0000	Revision:
Issue Date: 22.03.2020	Issue: PREL
Scale: NTS	Format: A1
Author: HAYA ALMUBARI	Checked: LEO HERKE
Designer: HAYA ALMUBARI	Approved: MARC DIMMERS

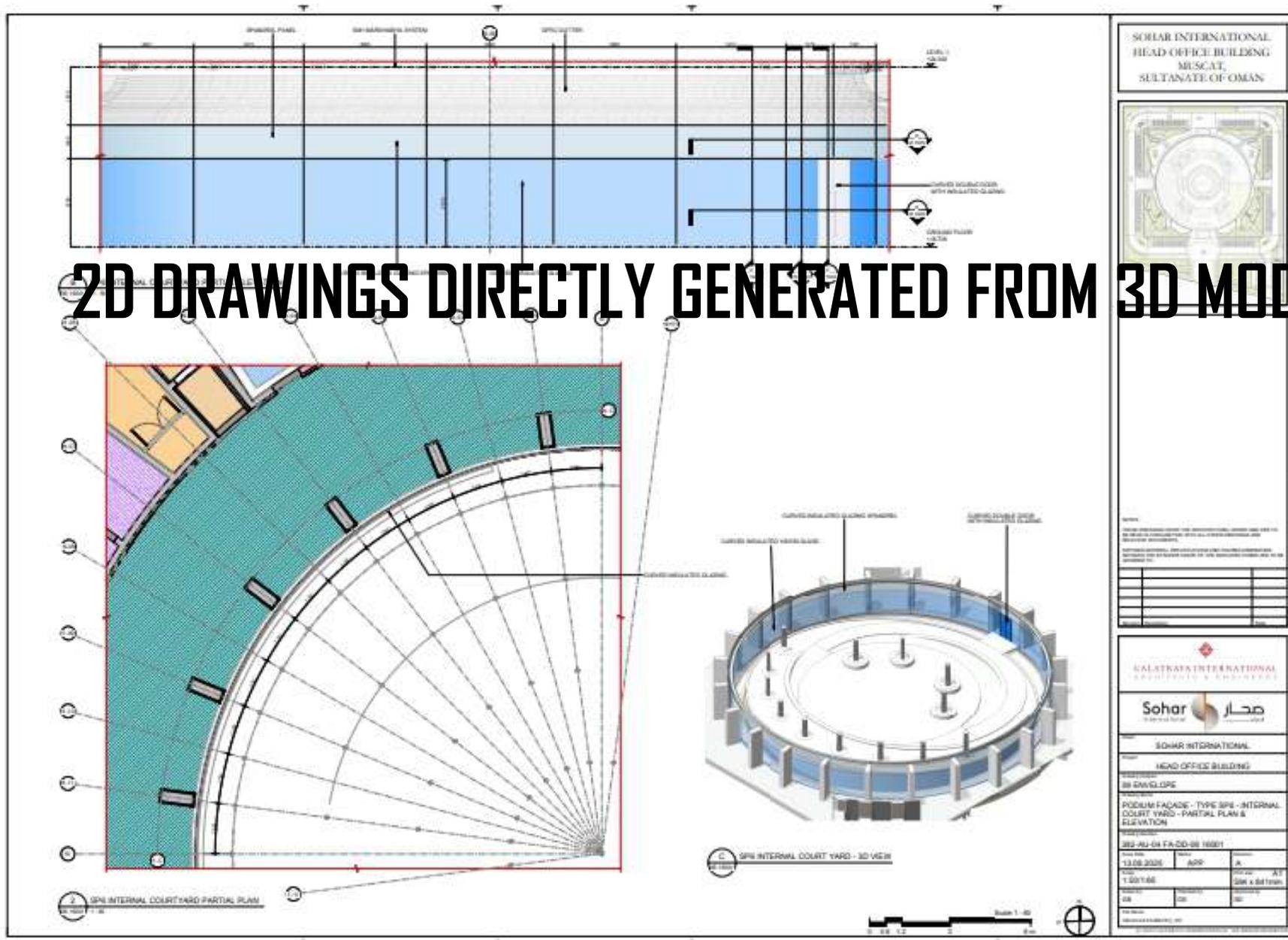




# 2D DRAWINGS DIRECTLY GENERATED FROM 3D MODEL



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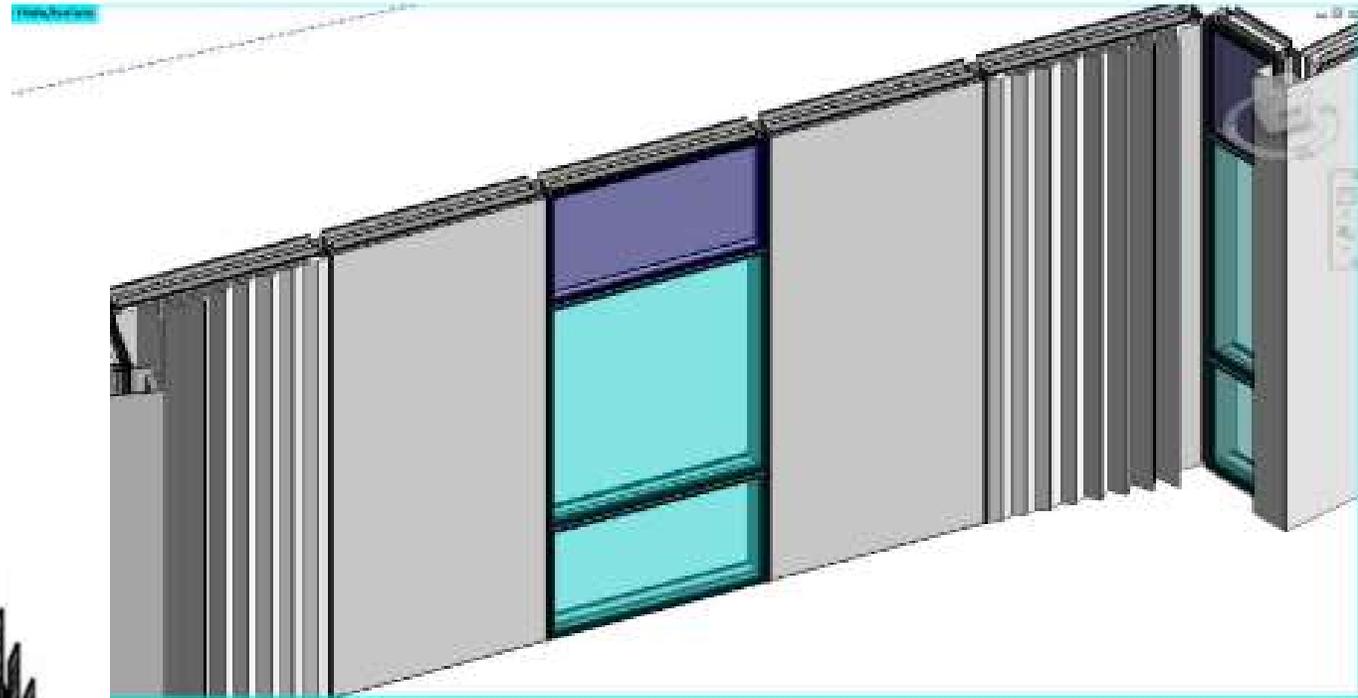
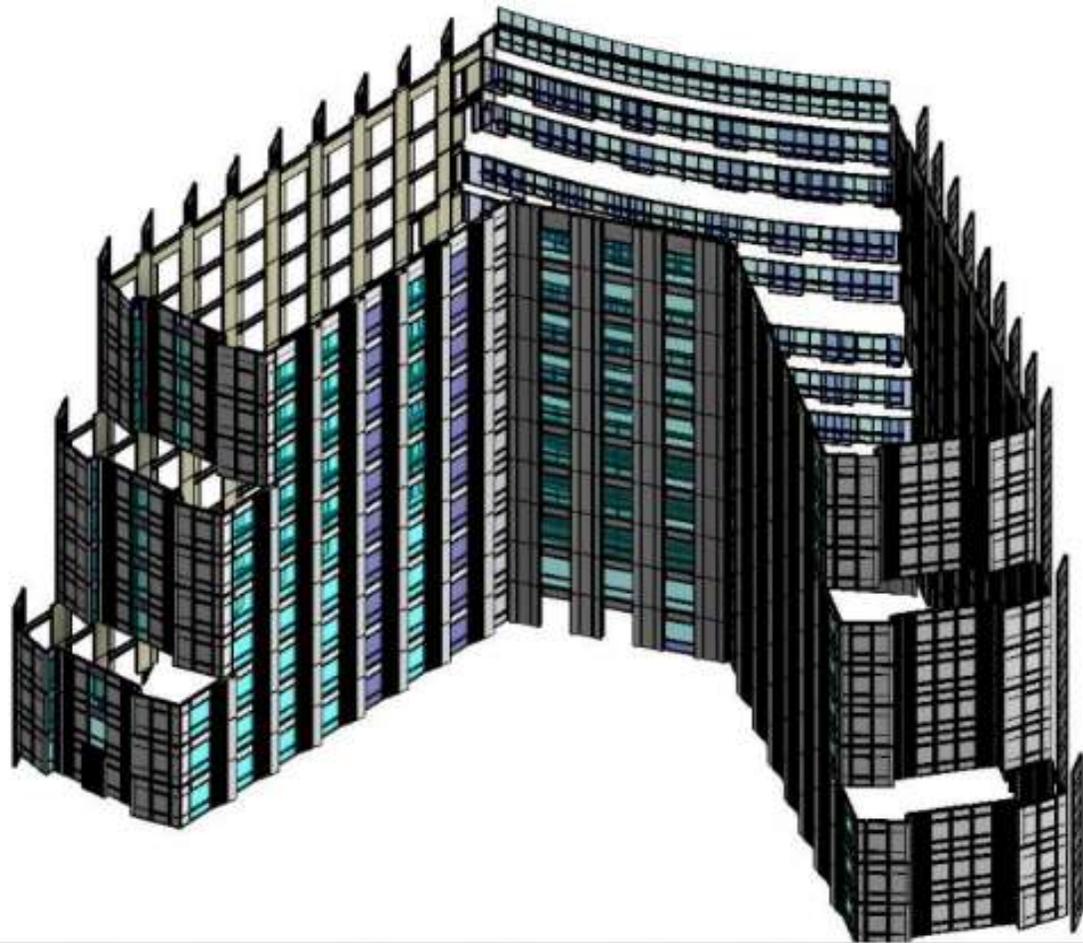


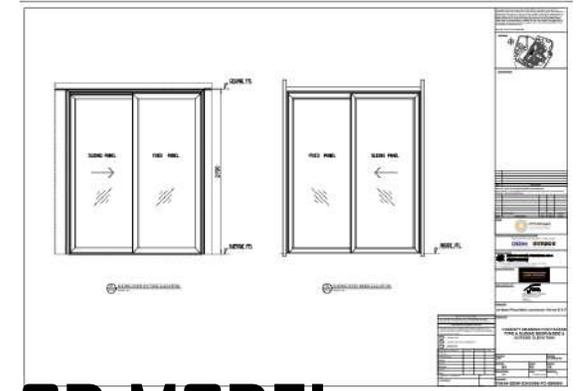
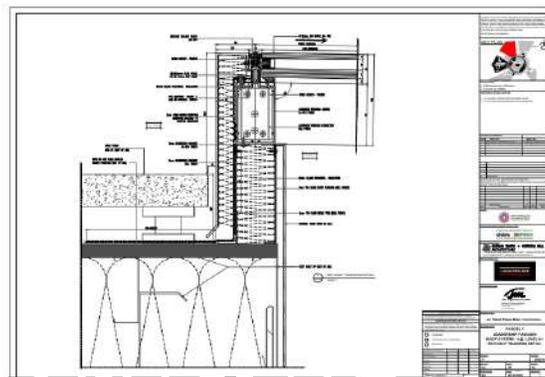
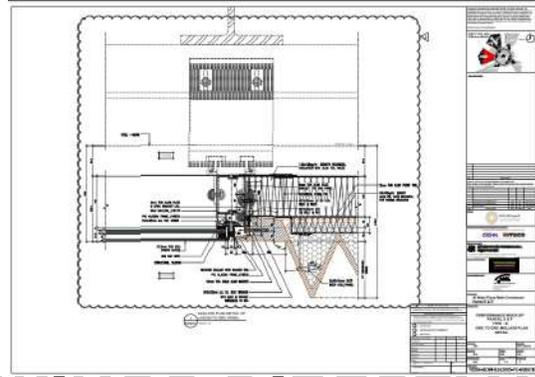
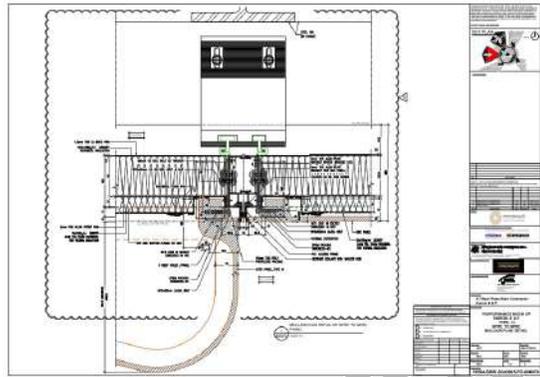
# AL WASL PLAZA – EXPO2020

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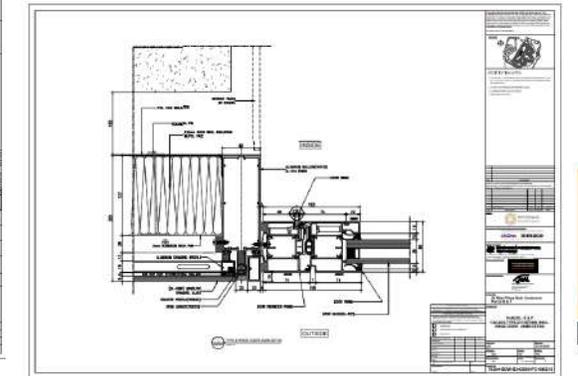
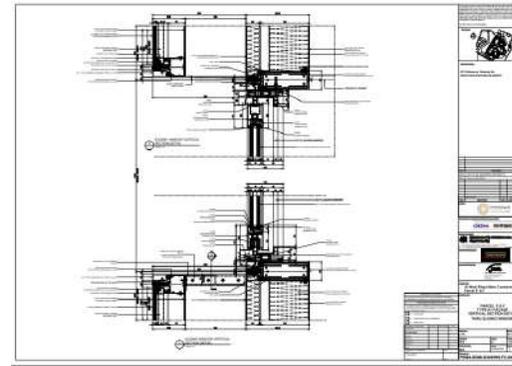
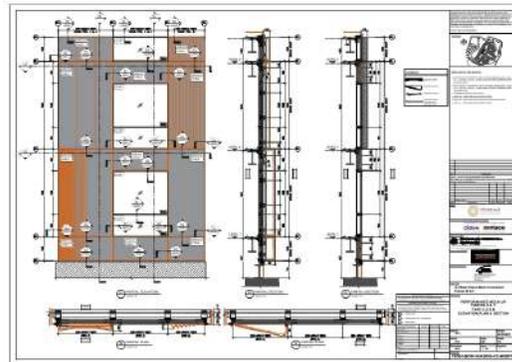
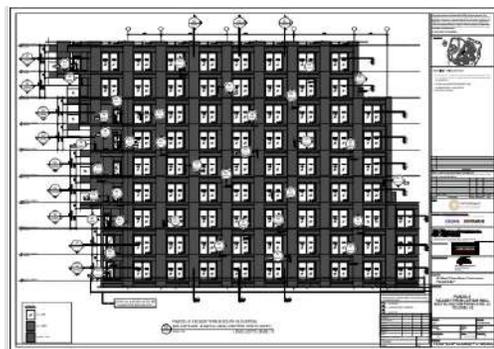
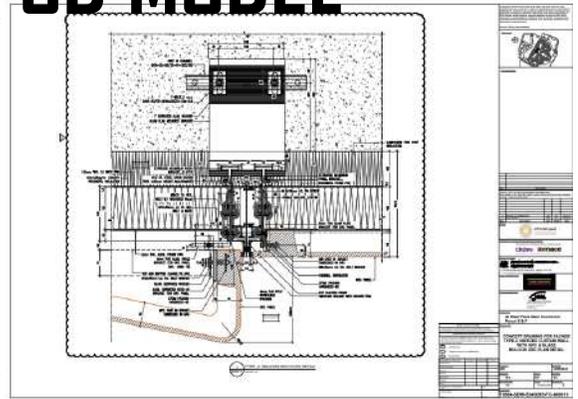
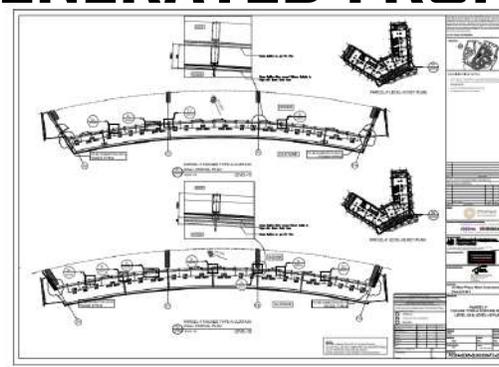
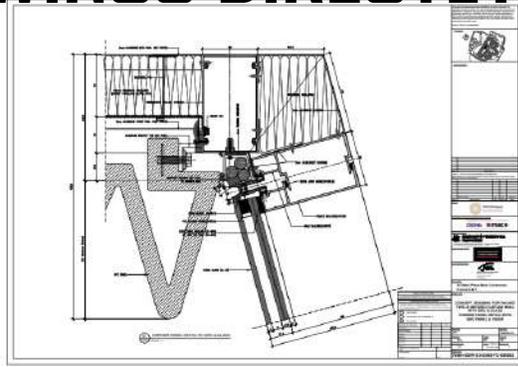
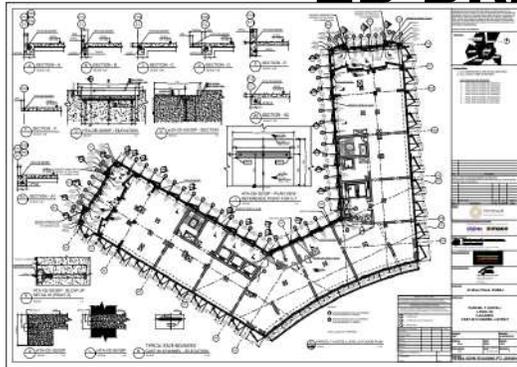
MISSION IMPOSSIBLE PROJECT WITHIN A SHORT TIME

THE REASON WE COULD MAKE IT HAPPEN  
IS THE LARGEST BIM TEAM IN MIDDLE EAST  
NO COMPANY HAVE THIS SCALE OF BIM TEAM  
EVEN IN FAMOUS INTERNATIONAL FIRMS

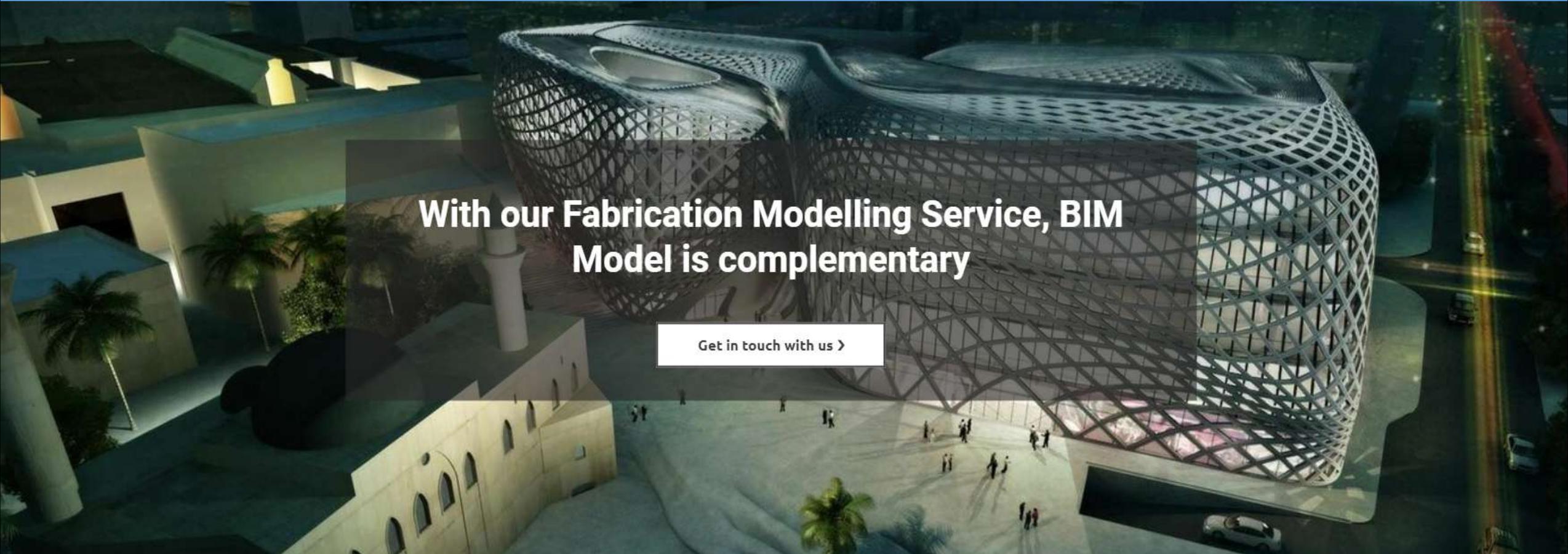




# 2D DRAWINGS DIRECTLY GENERATED FROM 3D MODEL

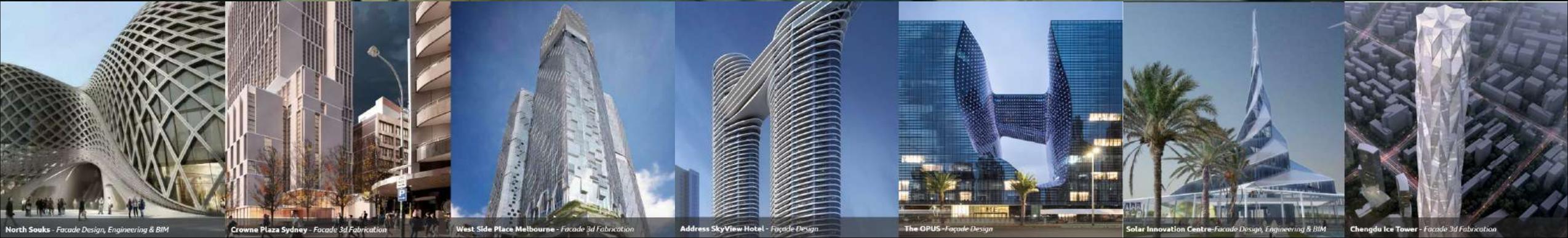


We provide the **Modelling** service that can produce **façade design/fabrication** drawing



With our Fabrication Modelling Service, BIM Model is complementary

Get in touch with us >



North Souks - Façade Design, Engineering & BIM

Crowne Plaza Sydney - Façade 3d Fabrication

West Side Place Melbourne - Façade 3d Fabrication

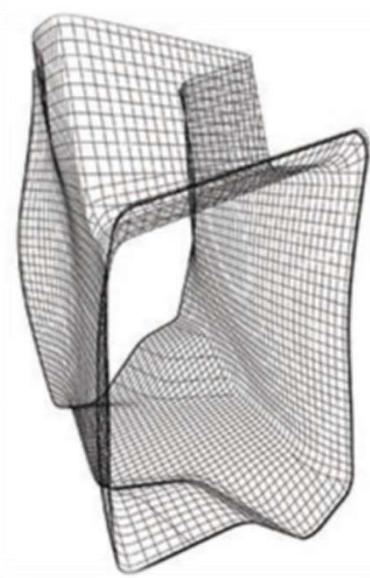
Address SkyView Hotel - Façade Design

The OPUS - Façade Design

Solar Innovation Centre - Façade Design, Engineering & BIM

Chengdu Ice Tower - Façade 3d Fabrication

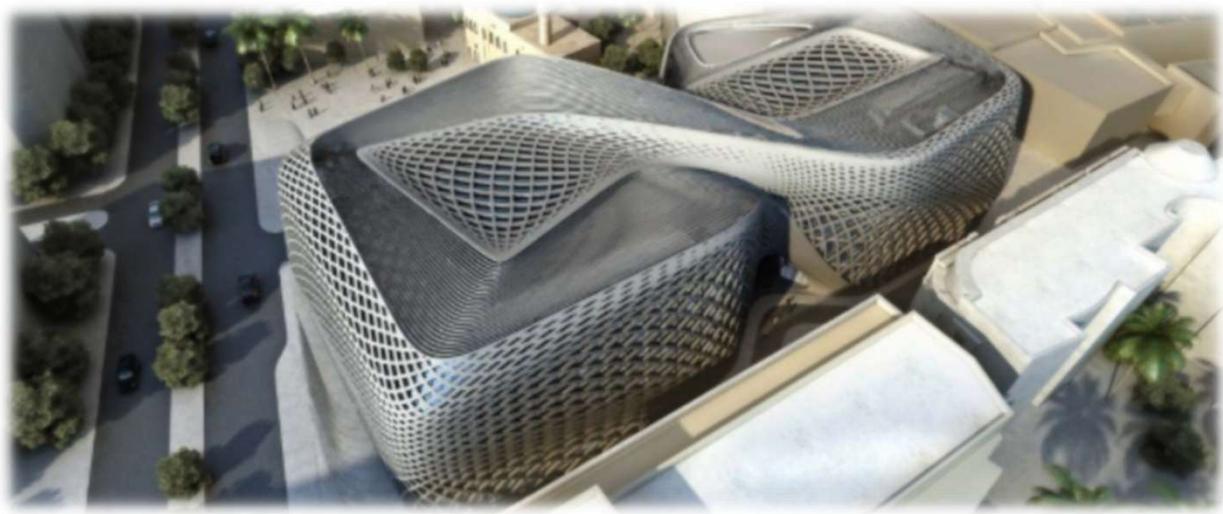
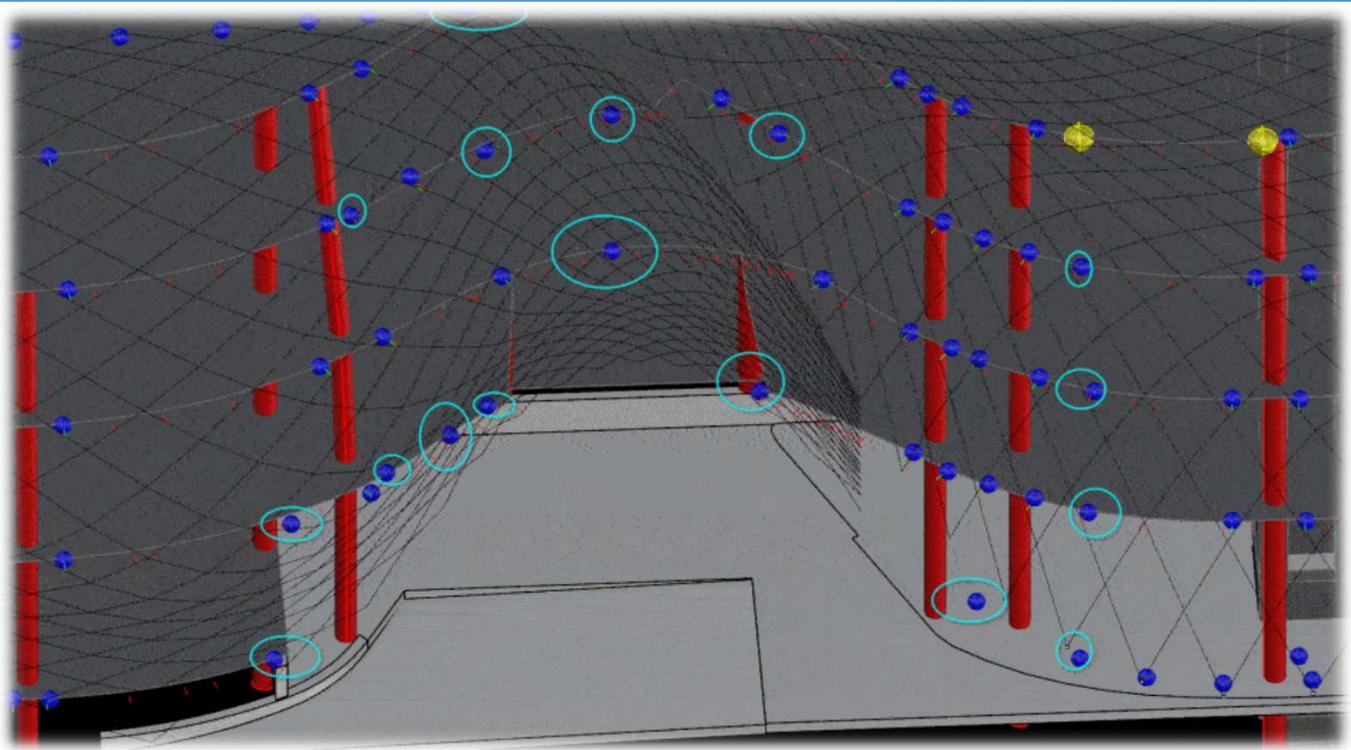
# The OPUS\_Zaha Hadid Architect \_ Dubai, United Arab Emirates (2014~2016)



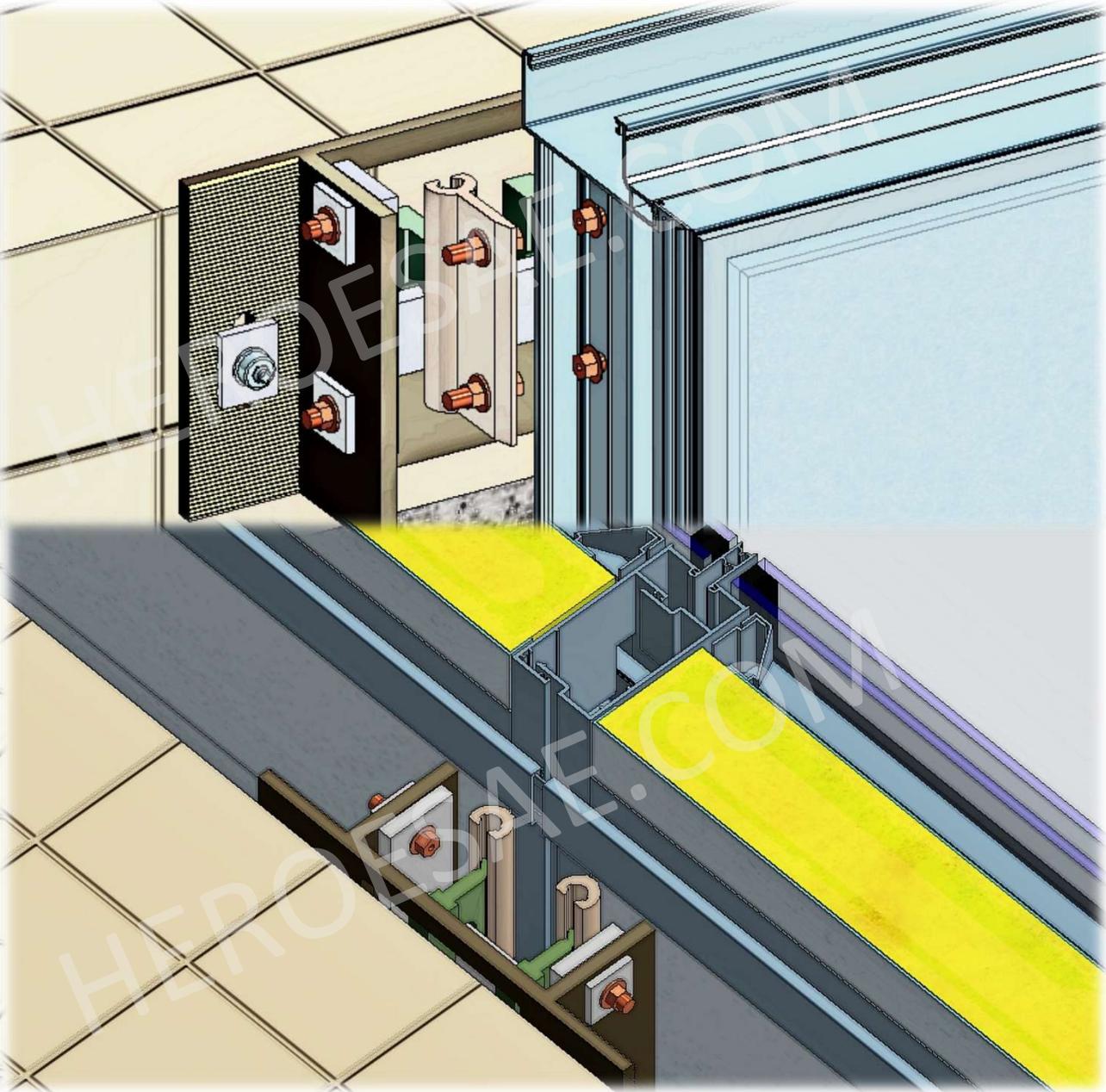
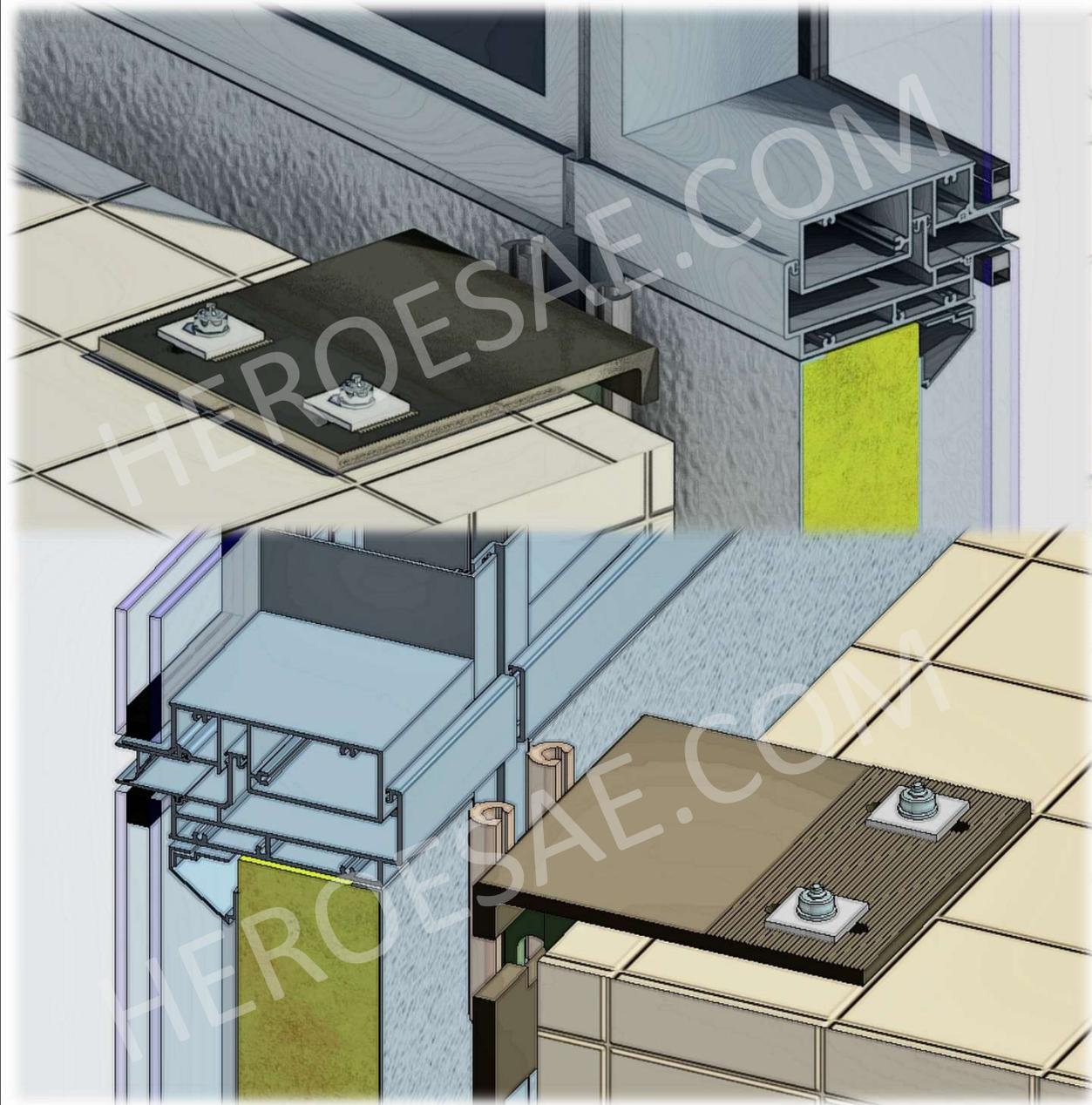
**VOID GEOMETRY  
PANELIZATION**

SIZES  
NOMINAL: 1500 X 1950 mm  
WIDEST: 1900 X 2200 mm  
LONGEST: 1520 X 2510 mm



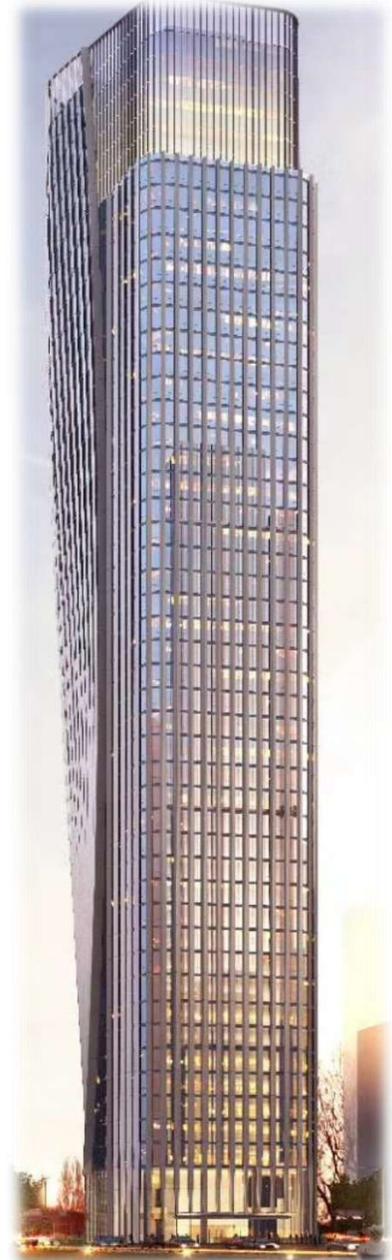
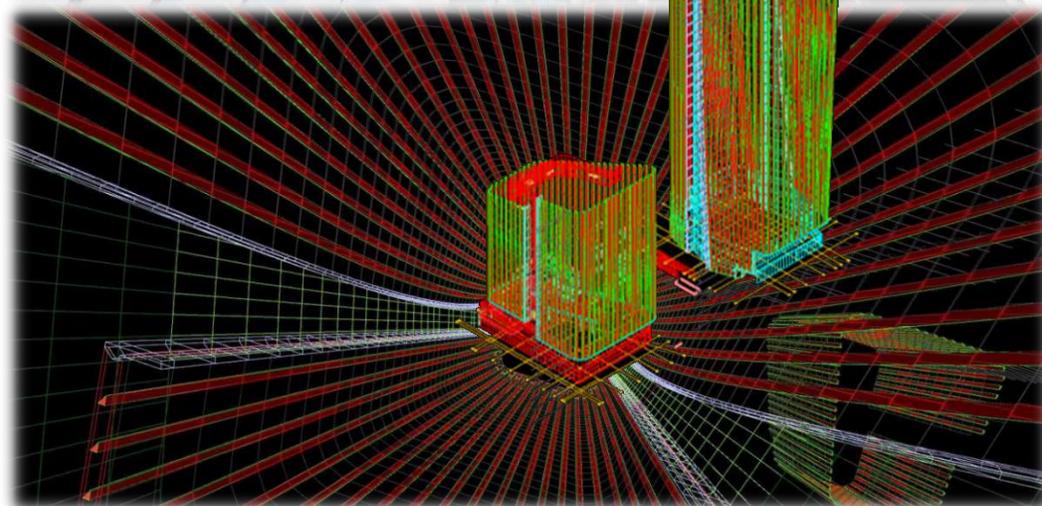
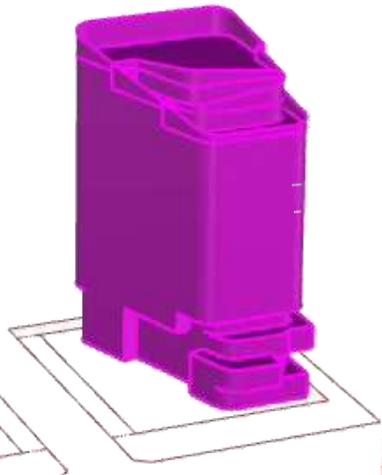
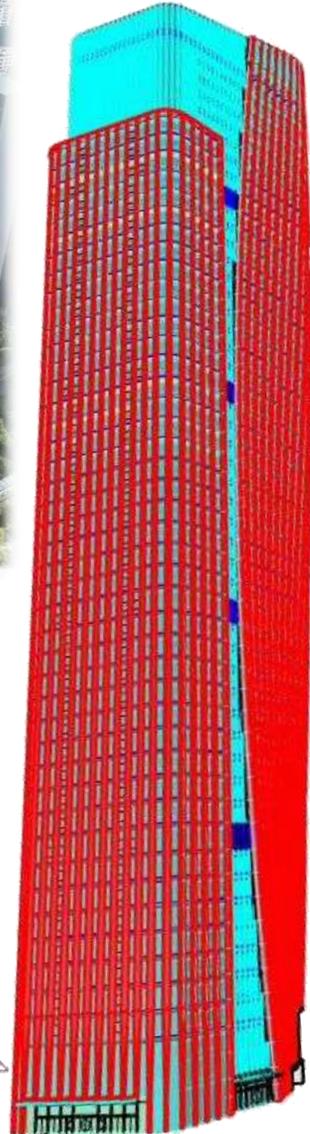


# What is LOD400 BIM model for façade specialist? (Design Visualization + Digital MockUp)



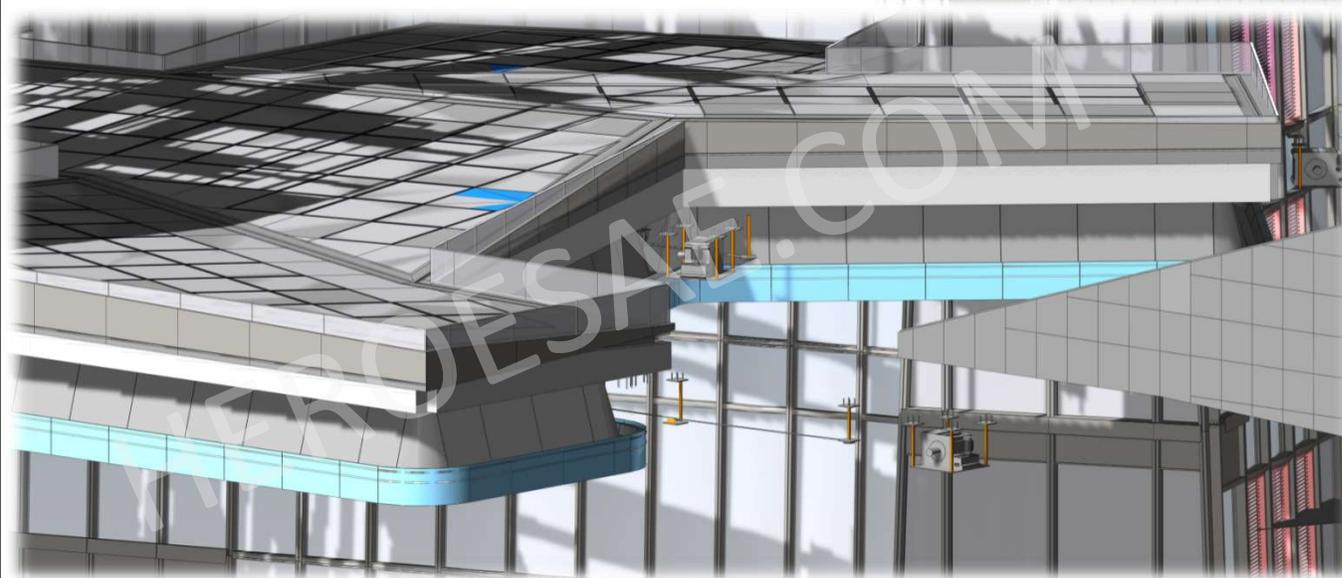
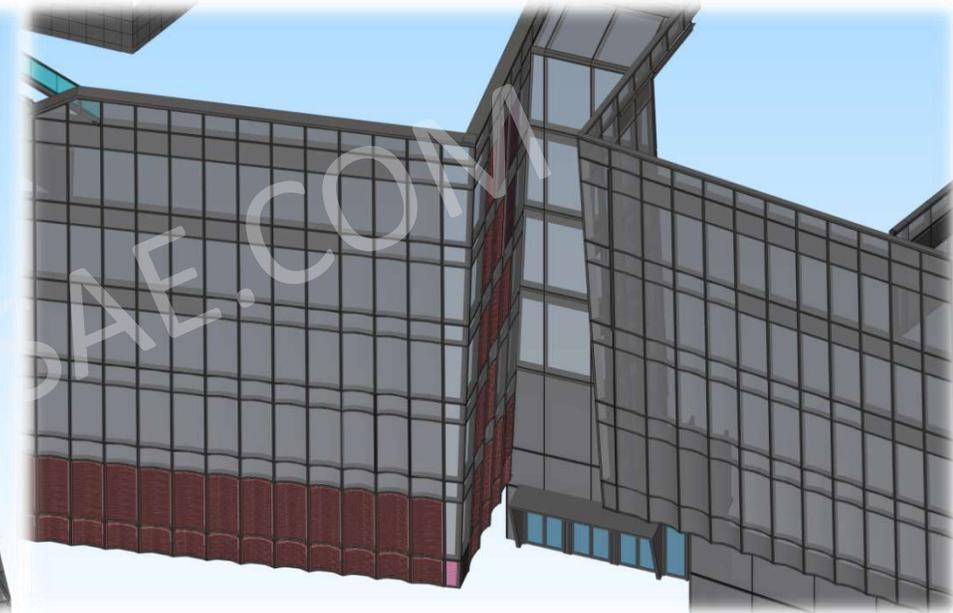
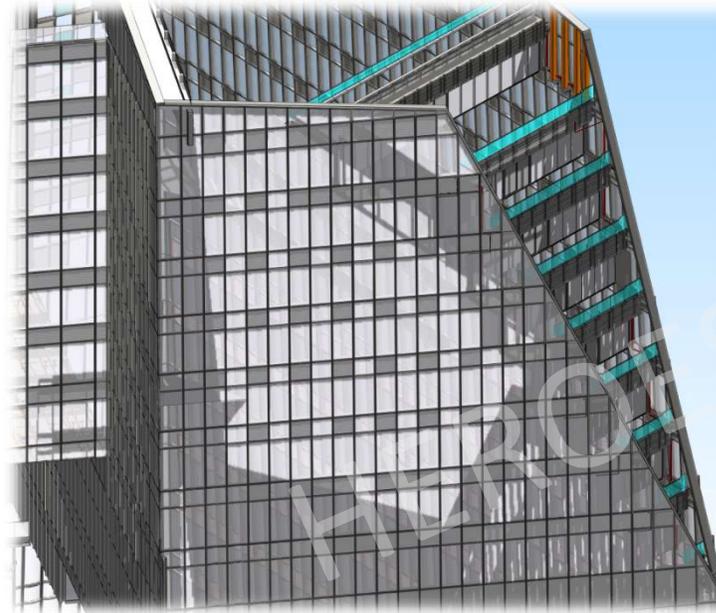


3d model

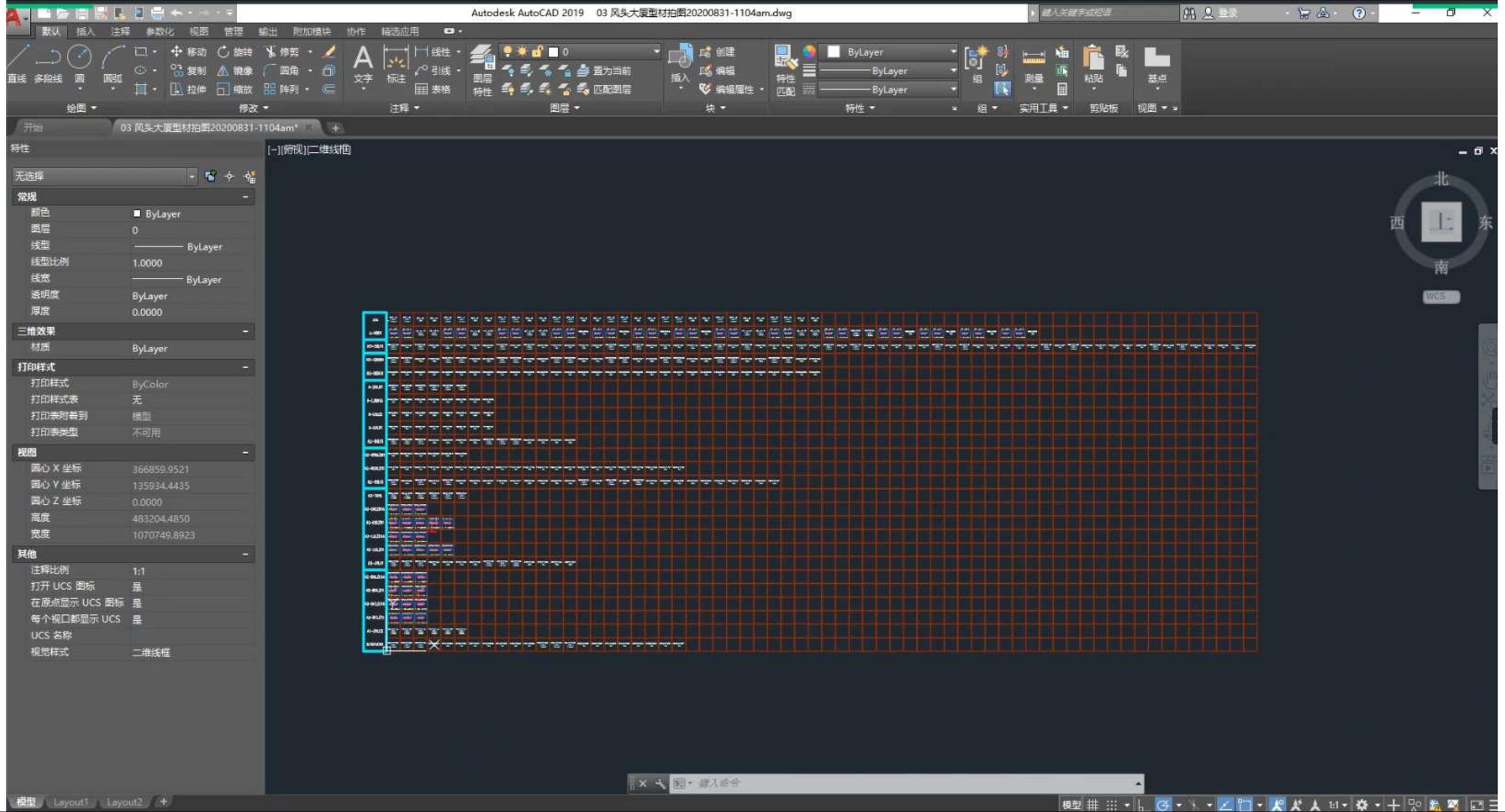


- HIGH QUALITY MODELLING
- PARAMETRIC MODELLING
- DATA INTEGRATED THE MODELS

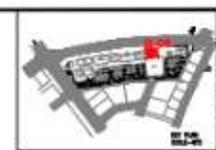
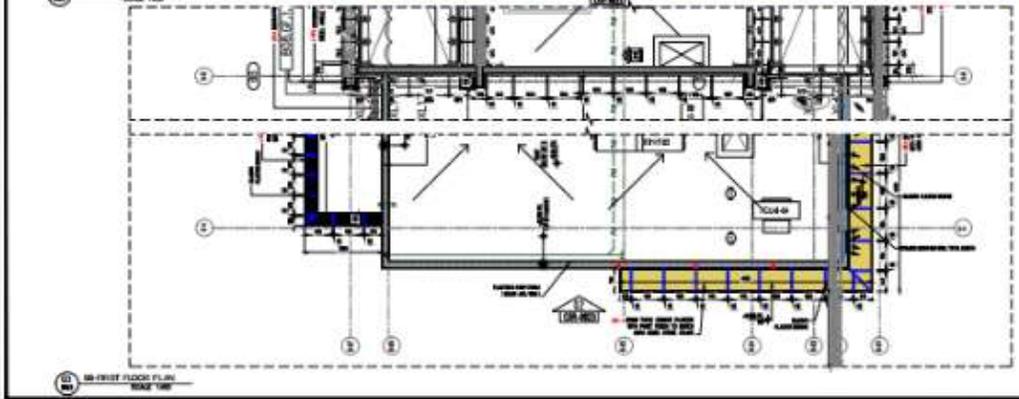
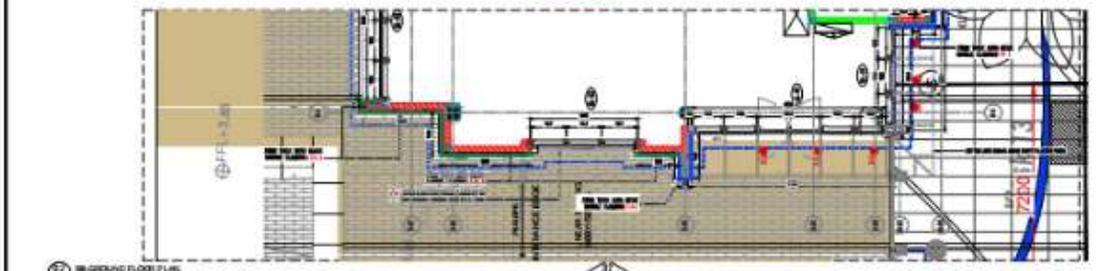
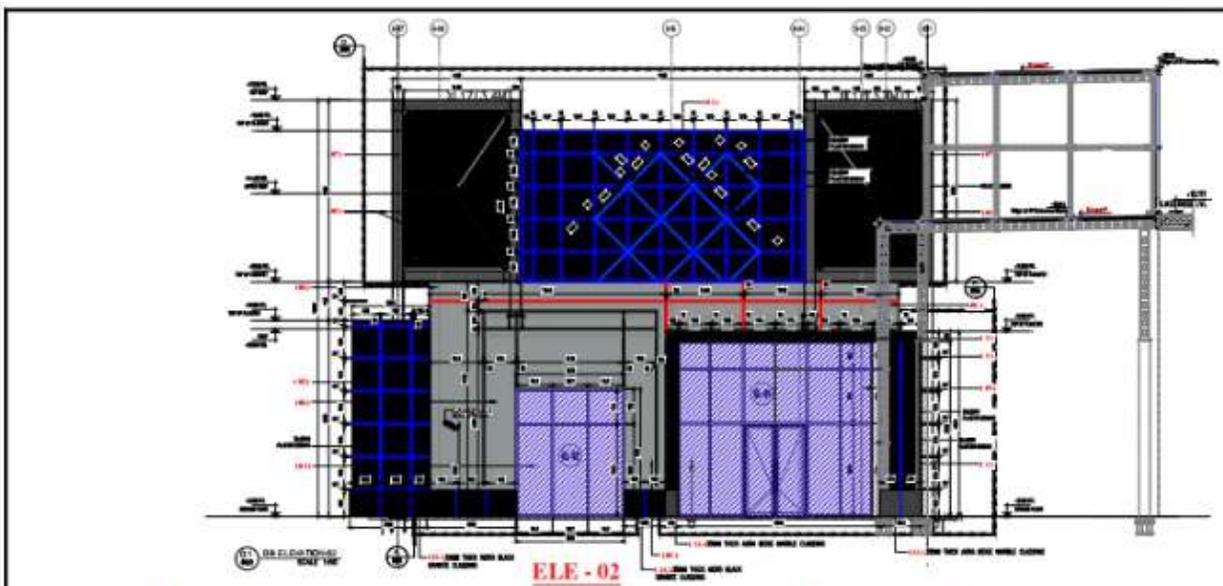
## NKIL6556, Grade A Office & Retail Development



# CAD format for Shop Drawings/Fabrication Drawings



# Sample Projects: Esplanade Mall - Dutco (Shop Drawings + As Built Drawings)



**NOTES**

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED
2. ALL ELEVATIONS ARE IN UNITS OTHERWISE NOTED
3. THE BUILDING SHOULD BE CONSTRUCTED IN ACCORDANCE WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS

CLIENT REPRESENTATIVE: \_\_\_\_\_  
 RESIDENT ENGINEER: \_\_\_\_\_

DATE: \_\_\_\_\_

**REVISIONS**

NO.	DATE	DESCRIPTION	BY	APP.
01		ISSUED FOR PERMIT		
02		ISSUED FOR CONSTRUCTION		
03		ISSUED FOR AS-BUILT		

**EXPLANATIONS**

NO.	DESCRIPTION
01	CONCRETE
02	ALUMINUM
03	STEEL
04	GLASS
05	PAINT

**MATERIALS LEGEND**

NO.	DESCRIPTION	DETAILS
A	CONCRETE	
B	ALUMINUM	
C	STEEL	
D	GLASS	
E	PAINT	
F	...	
G	...	
H	...	
I	...	
J	...	
K	...	

**PROJECT INFORMATION**

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

**REVISIONS**

NO.	DATE	DESCRIPTION	BY	APP.
01		ISSUED FOR PERMIT		
02		ISSUED FOR CONSTRUCTION		
03		ISSUED FOR AS-BUILT		

**CLIENT**

**MUZON**

MUZON HOLDING LLC

**DESIGN ARCHITECT**

**COOPER CARRY**

**MAIN CONTRACTOR**

**Dutco Construction Co. LLC**

**DRAWING TITLE**

**BUILDING - 08**  
**ELEVATION - 02**  
**CO ORDINATION DETAILS**

NO.	DATE	DESCRIPTION	BY	APP.
01		ISSUED FOR PERMIT		
02		ISSUED FOR CONSTRUCTION		
03		ISSUED FOR AS-BUILT		









**HerosAE.com**

# THANK YOU !

Coding from concept to fabrication within one **BIM Model** for Facade industry 4.0 by using our in-house **Grasshopper®** plug-in 'FacadeHub' to script the design to BIM 500 detailed fabrication-level.

**Heroes Architects and Engineers Co., Ltd**