Who we are... ...

# HAE Specialist of Facade Design / Engineering / BIM

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 GREENLET CONSLUTING FZE(DUBAI)





Introduction of Heroes Architects and Engineers

Introduction of **Building Information Modeling** 

Introduction of Facade Design

HerosAE.com



HerosAE.com

Our façade modelling and design process allows us to bring the façade design to accurately within short time A completely higher quality and speed from conversion CAD operation in the current BIM consultancy.

2017

#### **Heroes Architects and Engineers** Co,. Ltd (Shen Zhen)

Establish the Data center and software research team in Shen Zhen, focusing on façade industry 4.0 by combining the Robot AI and CAM manufacturing innovation.

2018

#### **Awarded Landmark project: OPUS by Zaha Hadid**

HAE being famous and is recognized by major façade contractors and Architects in middle east.

2014

2020

#### **Heroes Architects and Engineers** Co,. Ltd (Hong Kong)

Wayne Lin setup the new branch in Hong Kong as the center of GHM Greater Bay Area and Asia Pacific Market.

#### Launch "FacadeHub" the remarkable BIM software

FacadeHub integrated the API of Grasshopper and KBE of façade design and fabrication experience. Fulfill the gap between Rhino and openBIM workflow.

Heroes Architects and Engineers Co., Ltd (Dubai)

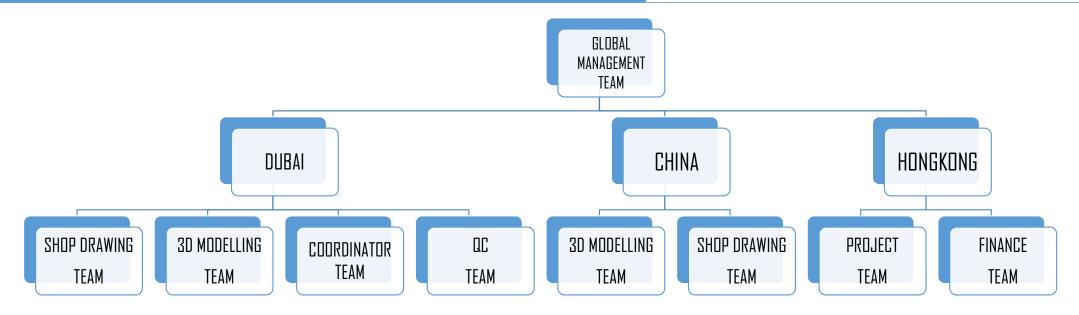
Yue Qi, Douglas Sun, XinPeng Wong & Wayne Lin create a Dubai-based company that service the Dubai Façade design and fabrication industry.





#### **ORGANIZATION CHART**





**Dubai Design Office:** Office located in Al Barsha, Dubai,

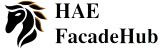
15 Shop drawing Designers + 11 3D Modelling Designers

4 Coordinator + 4 QC Engineers

China Design Offices: 2 Offices located in Changsha & Xi'An (two cities)

15 Shop drawing Designers + 10 3D Modelling Designers

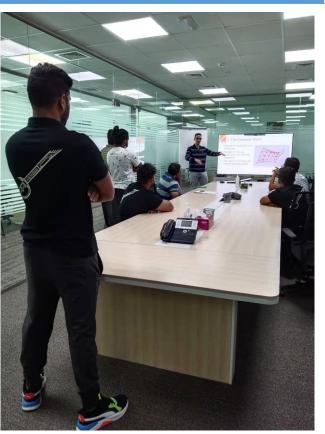
#### **STAFF**















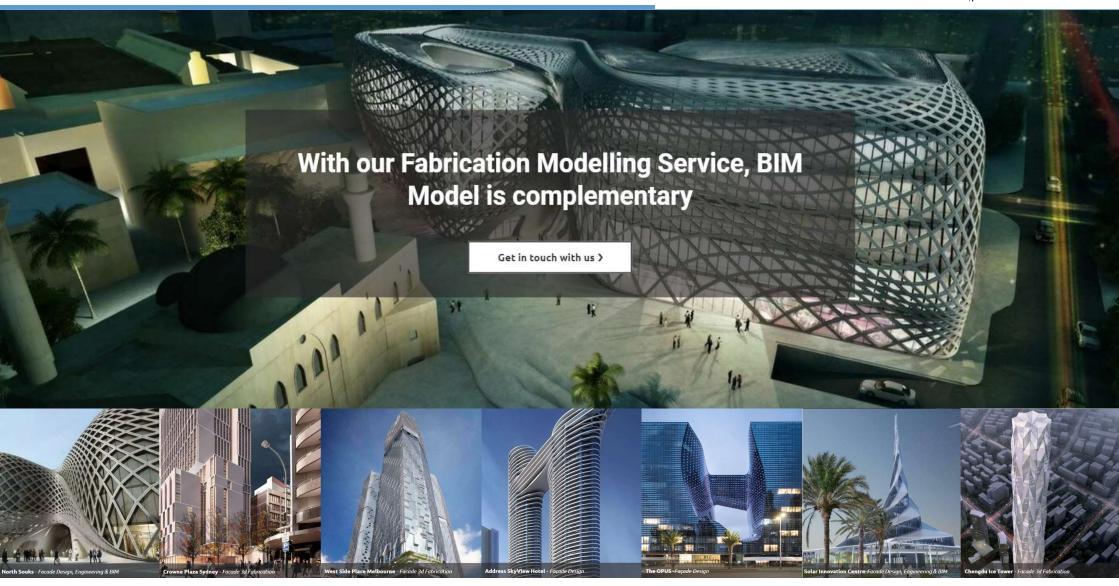
TRAINING: MONTHLY TECHNICAL TRAINING AND PERSONAL DEVELOPMENT

STAFF MEDICAL INSURANCE: METLIFE MetLife

**TEAM BUILDING ACTIVITIES:** MARINA CRUISE DINNER / BURJ KHALIFA / FOOTBALL / BBQ / SAFARI (EVERY MONTH)

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





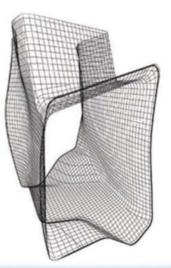
#### The OPUS\_Zaha Hadid Architect \_ Dubai, United Arab Emirates (2014~2016)













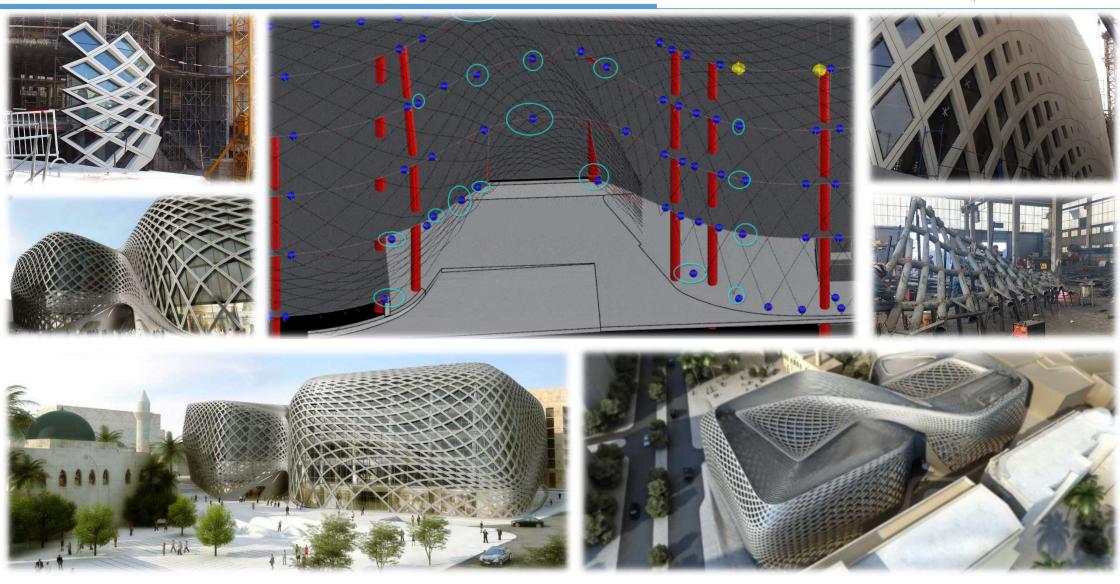
#### **VOID GEOMETRY PANELIZATION**

#### SIZES

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



# North Souks Department Store\_Zaha Hadid Architect \_ Beirut, Lebanon (2018~2020) HerosAE.com FacadeHub



## Mega GFRC facade Project for Lisboa Casino, Macau (2016~2020)





## Sohar Bank headquarter \_ E-studio Lamela \_ Muscat, Oman (Live Project)

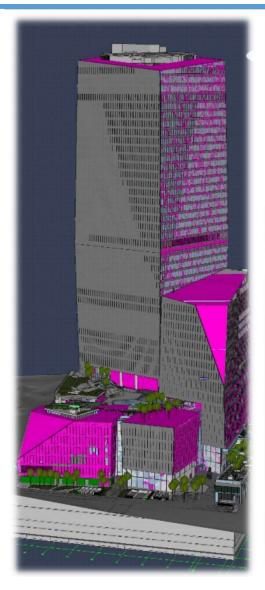




## Unitized Curtain Wall, Grade A Office & Retail Development (Live Project)







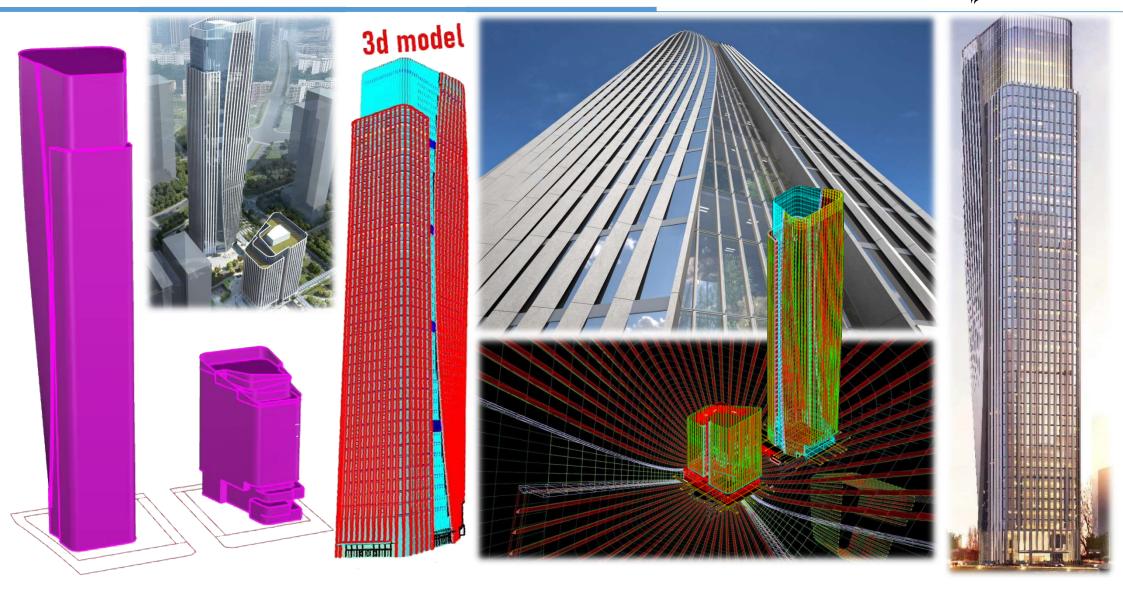












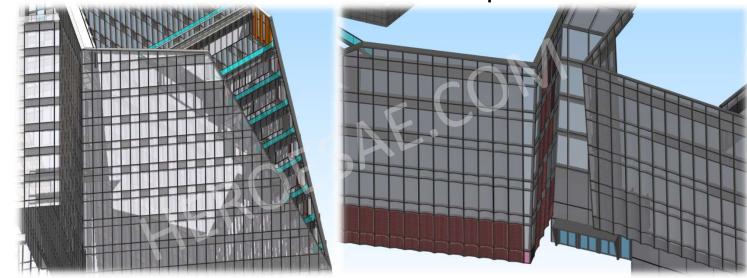
#### **BIM Modelling**

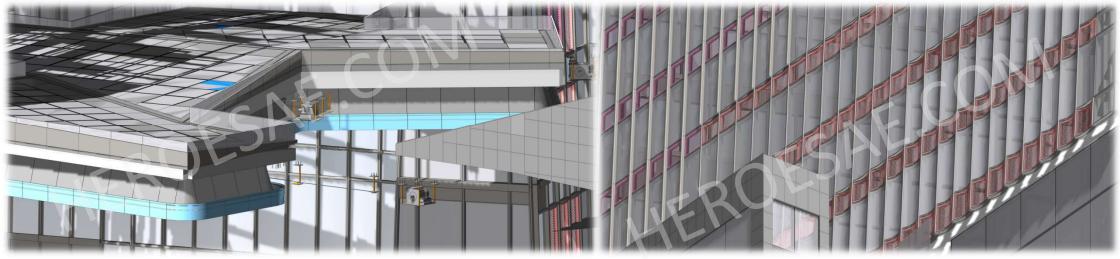




- HIGH QUALITY MODELLING
- PARAMETRIC MODELLING
- DATA INTERGRATED THE MODELS

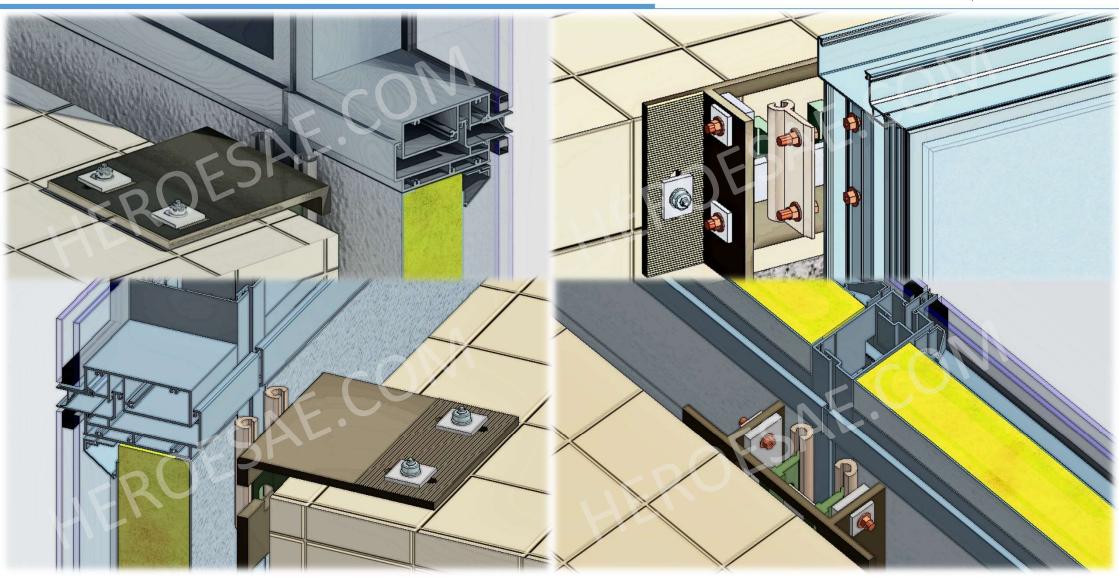






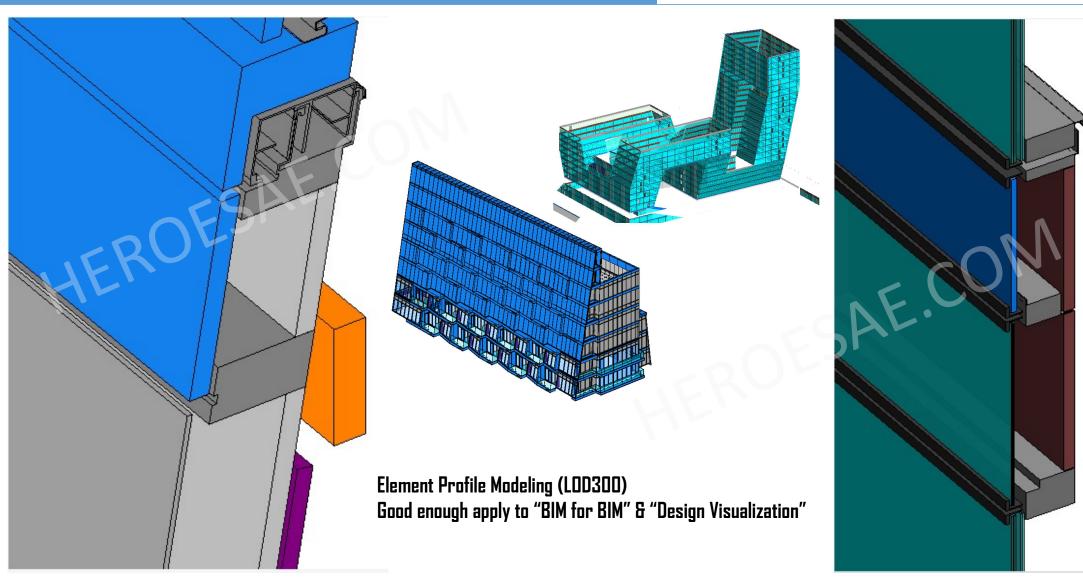
## What is LOD400 BIM model for façade specialist? (Design Visualization + Digital MockUp)

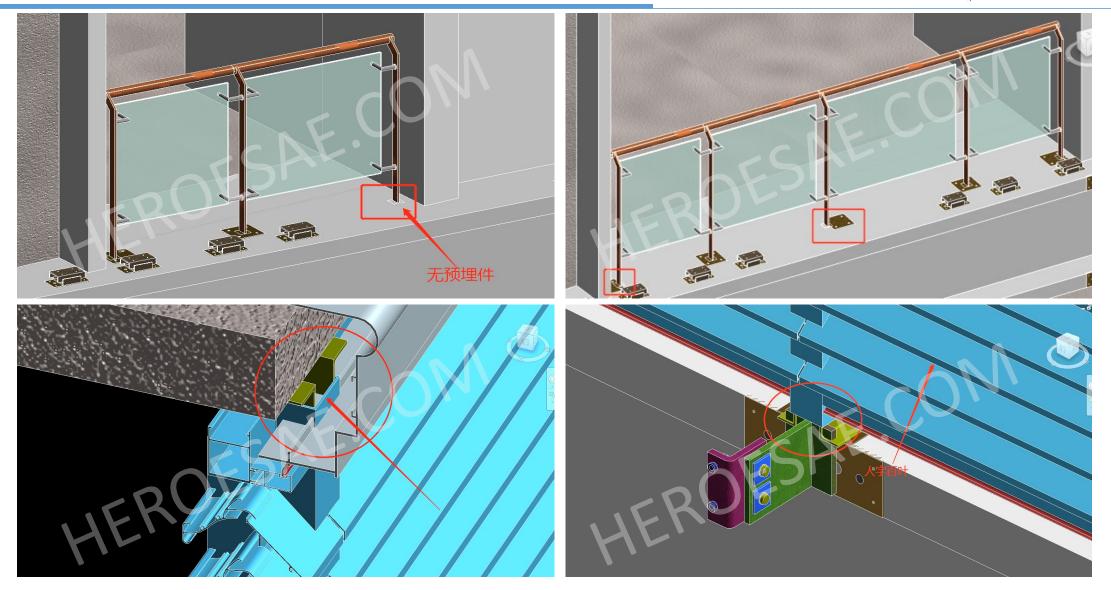




## What is LOD300 BIM model for façade specialist?



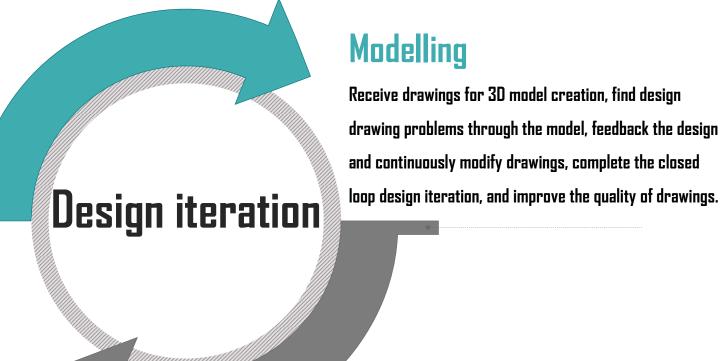




#### (Design Visualization)



#### (Design Visualization): Increase the iterative frequency of construction drawing design



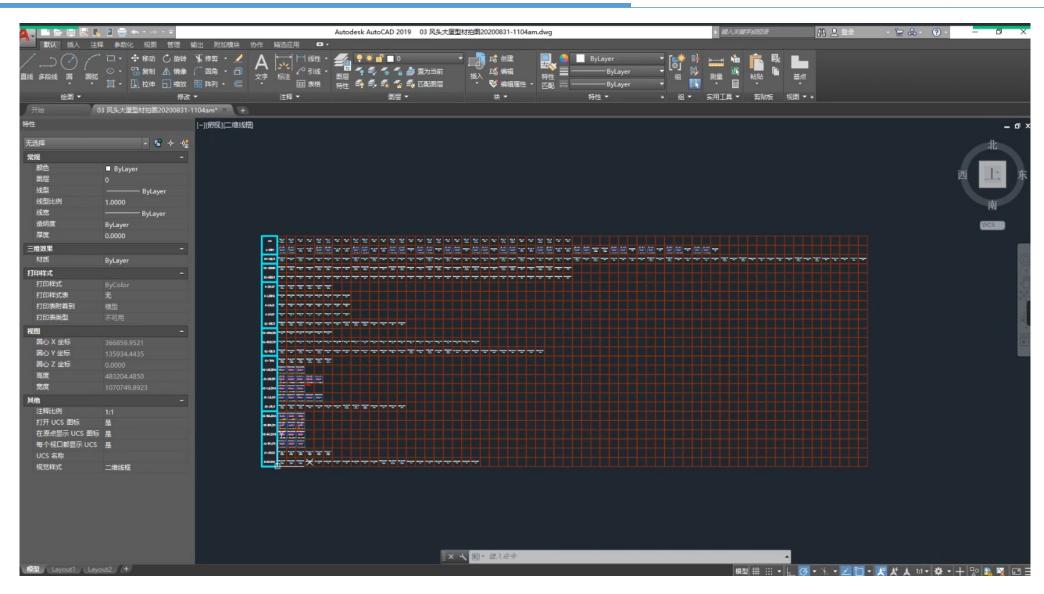
**Drawings** 

According to the problem report sub mitted by the model, the drawings are constantly revised and improved.

**information** = **B**e careful = **M**ake a system = **M**ake information

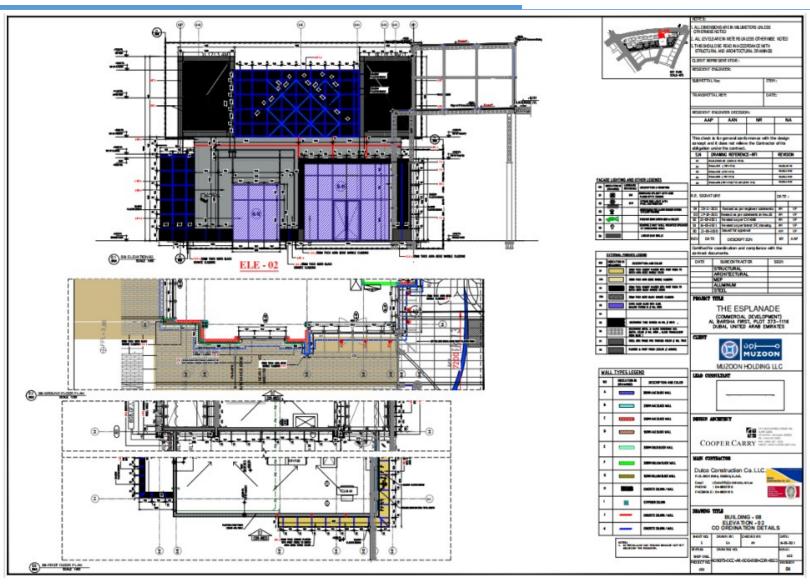
#### **CAD format for Shop Drawings/Fabrication Drawings**





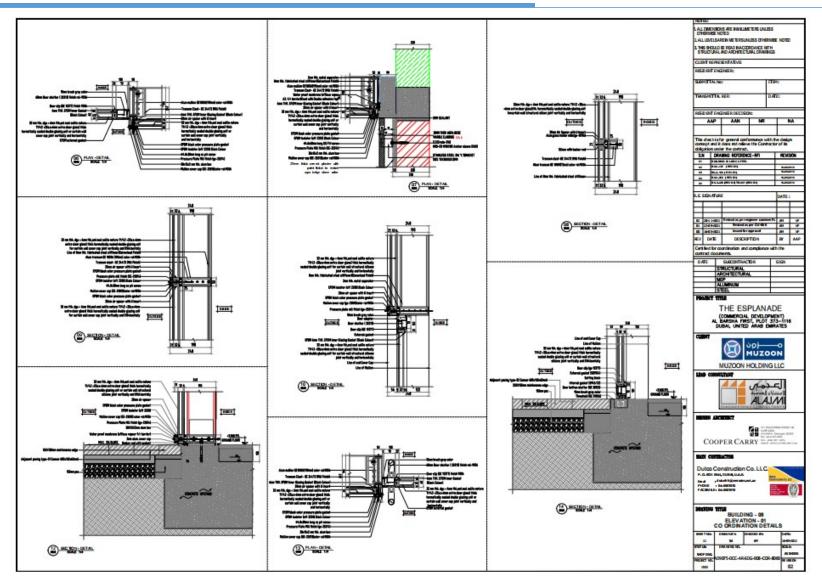
#### Sample Projects: Esplanade Mall - Dutco (Shop Drawing Partial Elevation + Floor Plan)





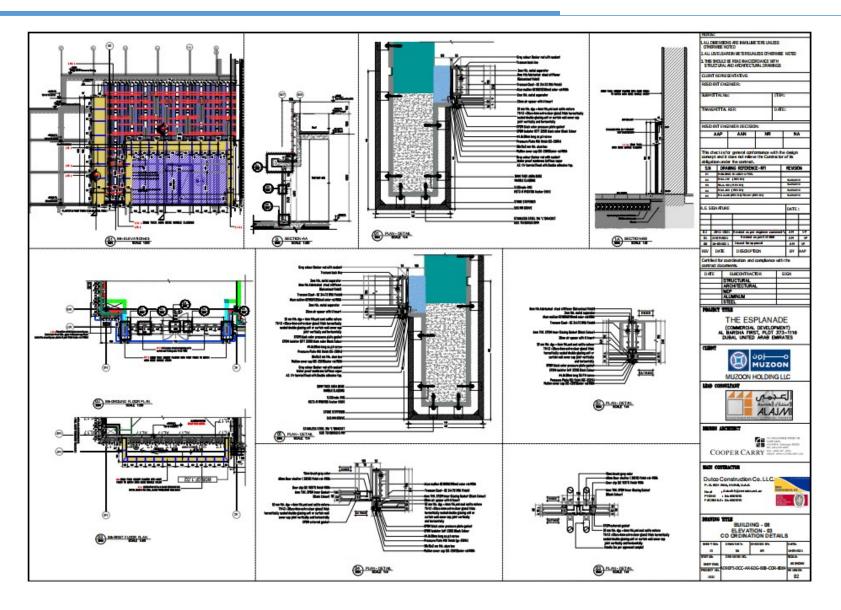
#### Sample Projects: Esplanade Mall - Dutco (Shop Drawing Detail)





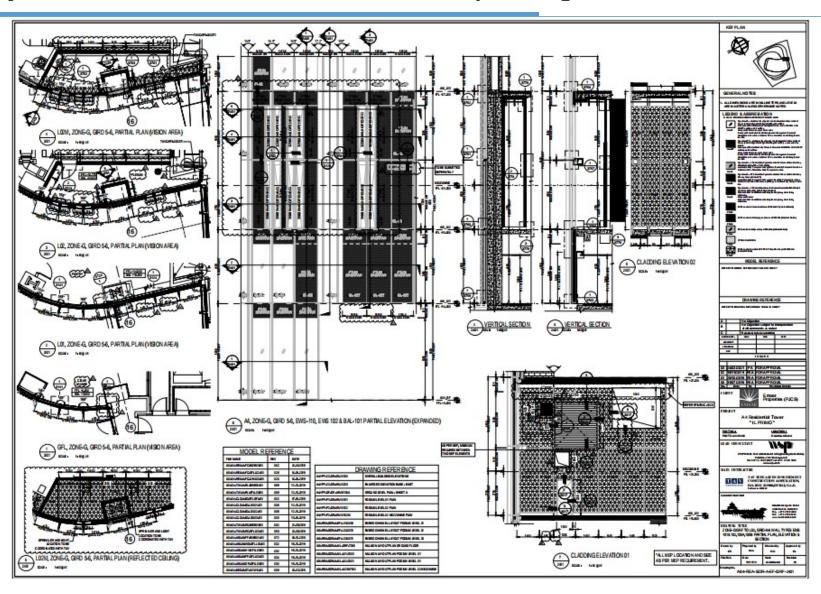
#### Sample Projects: Esplanade Mall - Dutco (Shop Drawing Detail)





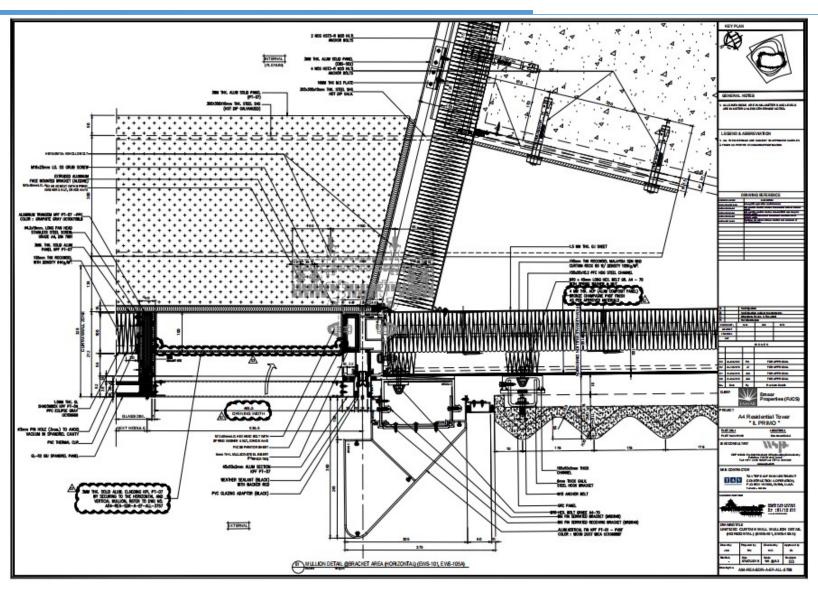
#### Sample Projects: II Primo Tower (A4) - Reem Emirates (Shop Drawing Partial Elevation)





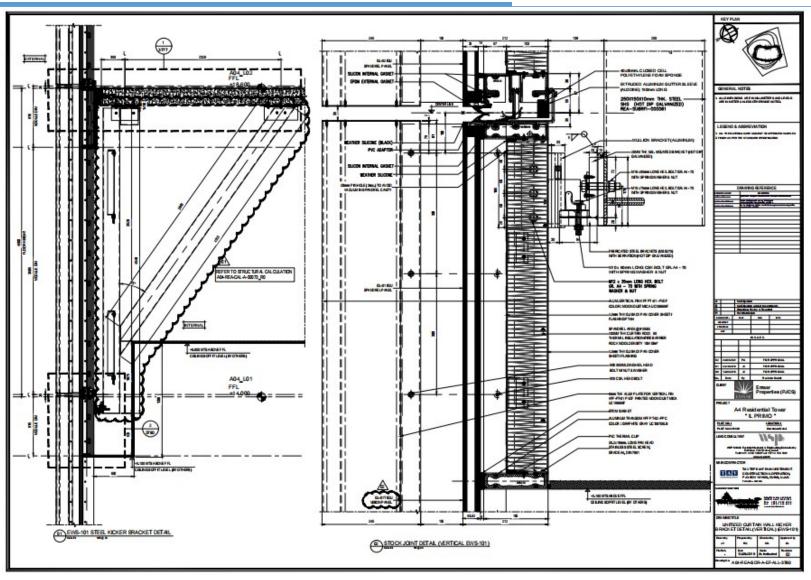
#### Sample Projects: Il Primo Tower (A4) - Reem Emirates (Shop Drawing Detail)





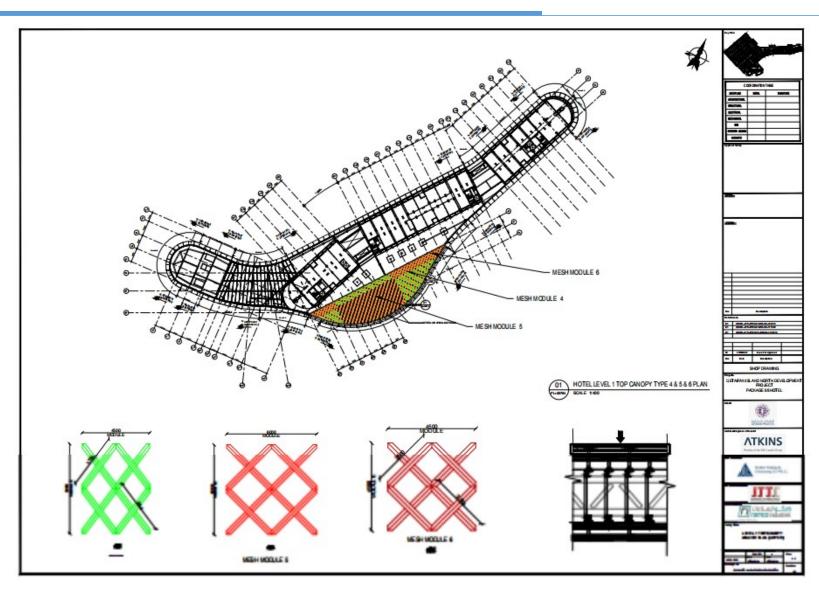
#### Sample Projects: Il Primo Tower (A4) - Reem Emirates (Shop Drawing Detail)





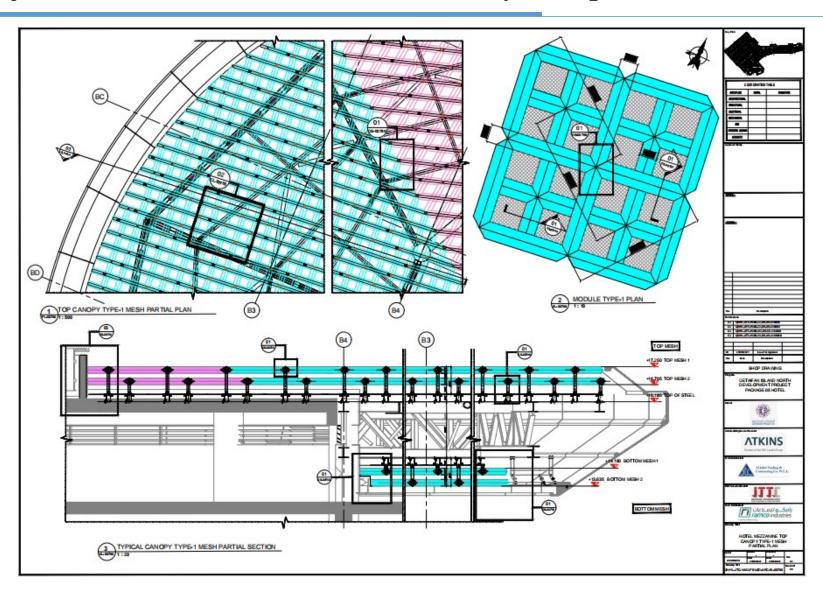
## Sample Projects: Qetaifan Island Hotel - Ramco Industries (Shop Drawing Canopy Plan)





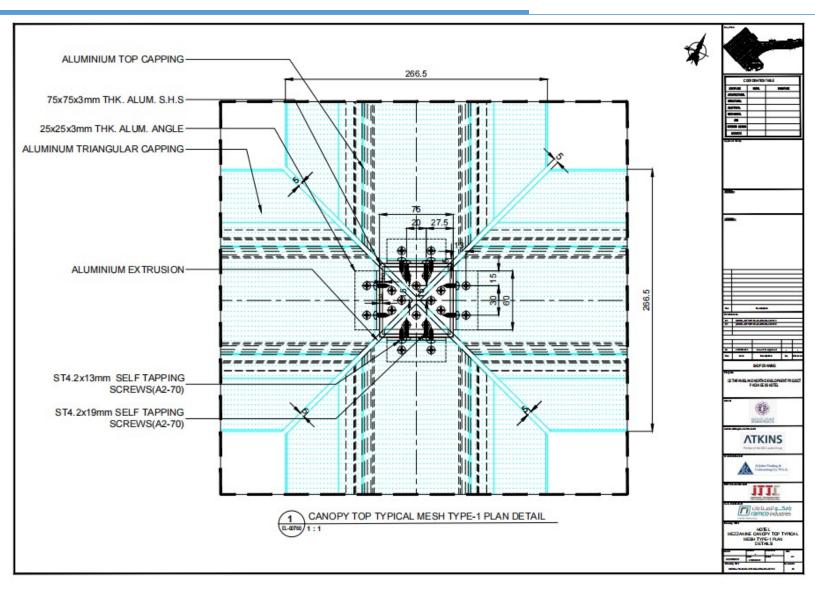
## Sample Projects: Qetaifan Island Hotel - Ramco Industries (Shop Drawing Partial Plan)





#### Sample Projects: Qetaifan Island Hotel - Ramco Industries (Shop Drawing Detail)







## THANK YOU!

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