



# Australia-New Zealand CORPORATE PROFILE

**EXPERIENCE WITH EXCELLENCE**



AUSTRALIA



NEW ZEALAND



# BENEFITS TO YOU





## MAJOR INDUSTRIES SERVED



## SOFTWARE EXPERTISE



**TEKLA**



**AUTODESK®  
NAVISWORKS®**



**AUTODESK®  
INFRAWORKS® 360**



**AUTODESK®  
INVENTOR®**



**ZWCAD+**



**AUTODESK®  
RECAP**



**STAAD.Pro**



**SOLIDWORKS**

## OUR CLIENTELE

**Downer**

**Fletcher  
Reinforcing**

**Fulton  
Hogan**

**HAWKINS**

**IPG**  
PROPERTY | INVESTMENT

**HEB**  
construction

**N' Nauhria**

**WILSON**

**Fletcher**

**ST**  
steel&tube

**STEEL MASTER**  
MASTER FOR THE BEST

**FOCUS**  
CONSTRUCTION GROUP

**Ghella**  
5 Generations of Tunnelers

**ABERGELDIE**  
COMPLEX INFRASTRUCTURE

**SAINT**  
ELECTRICAL

**ACSL**  
GROUP LTD  
REFRIGERATION | HVAC | ELECTRICAL

**AIR  
apex**  
Building Great Partnerships



# COMMERCIAL PROJECT

## PROJECT DETAILS

Project Name : 211 RICHARDSON ROAD

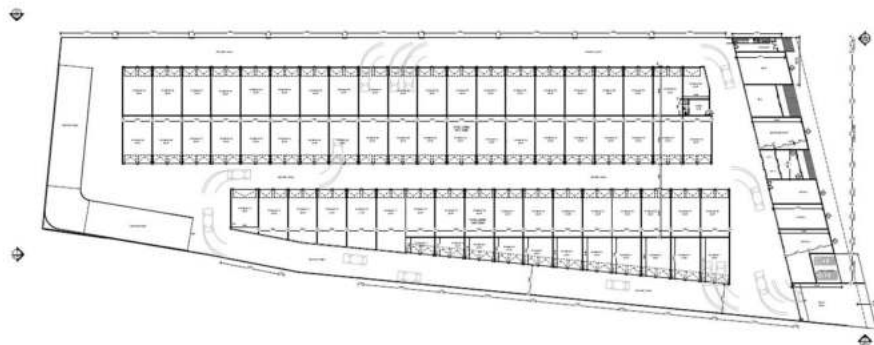
Client : IPG CORPORATION LTD

Project Location : NewZealand

Project Year : 2018

Project Description : Commercial Project

Silicon Scope : Architectural & Structural Services



# COMMERCIAL PROJECT





# BIM PROJECTS

## PROJECT DETAILS

**Project Name :** SOHO Hotel – 180 Stoddard Road

**Client :** IPG Corporation

**Project Location :** New Zealand

**Project Year :** 2018

**Discipline :** Building Information Modelling

**Project Description :** Soho hotel with Ground plus four levels, roof top swimming pool constructed at 180 Stoddard Road by IPG Hotels. Silicon had done the MEP, BIM 360, Coordination and Clash detection.





## BIM PROJECTS





# COMMERCIAL PROJECT

## PROJECT DETAILS

Project Name : THE CROSSING BUILDING EXT., HIGHBROOK (QUEST HOTEL)

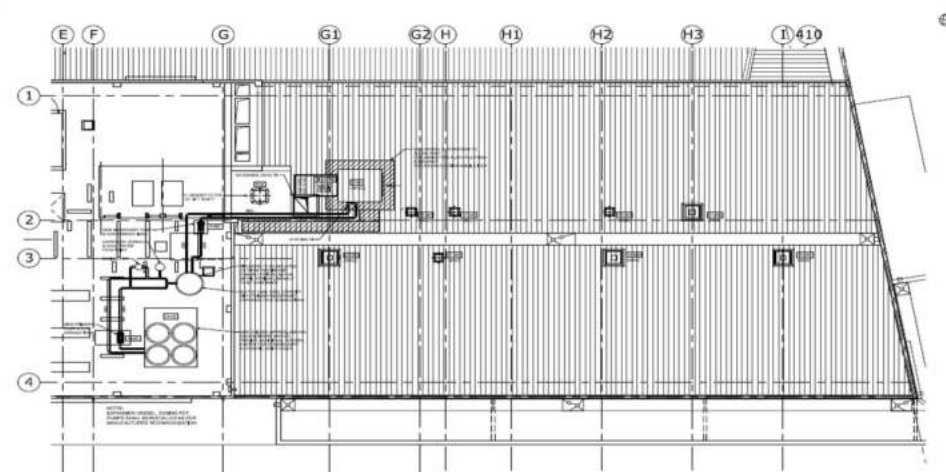
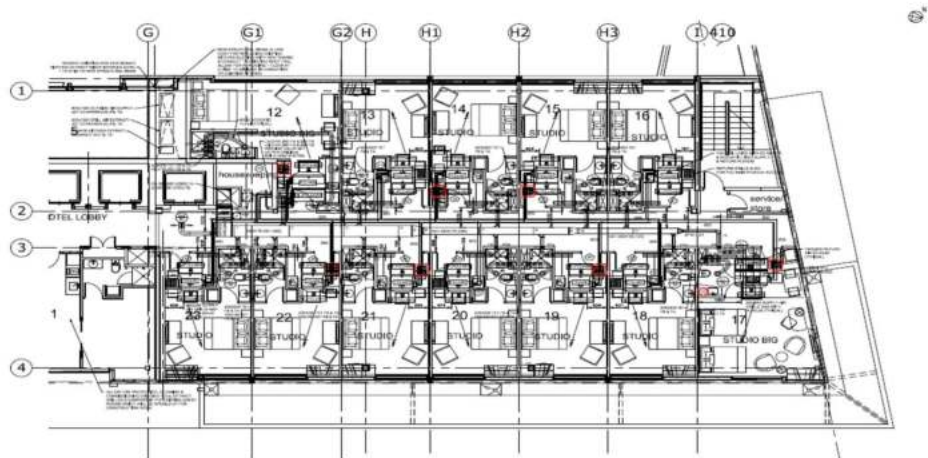
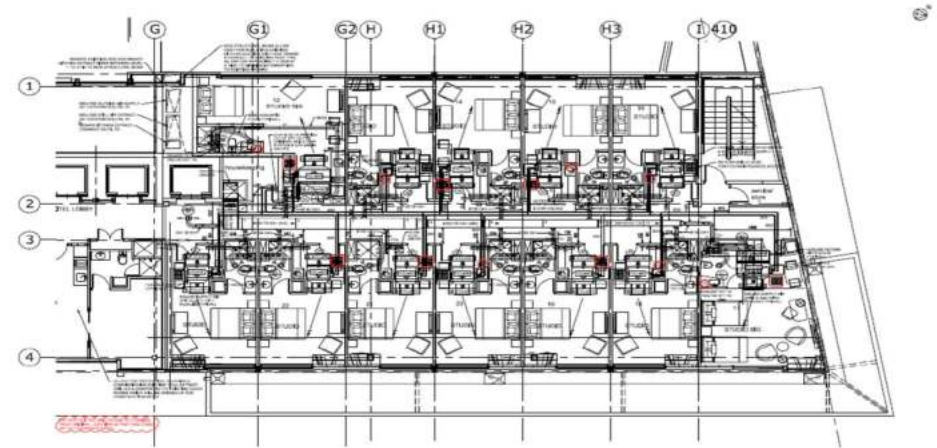
Client : APL AMBIENT PROJECTS LTD

Project Location : New Zealand – Auckland

Project Year : 2018

Project Description : Commercial Project

Silicon Scope : ARCHITECTURAL DRAFTING



# COMMERCIAL PROJECT

## PROJECT DETAILS

Project Name : HOLIDAY INN HOTEL

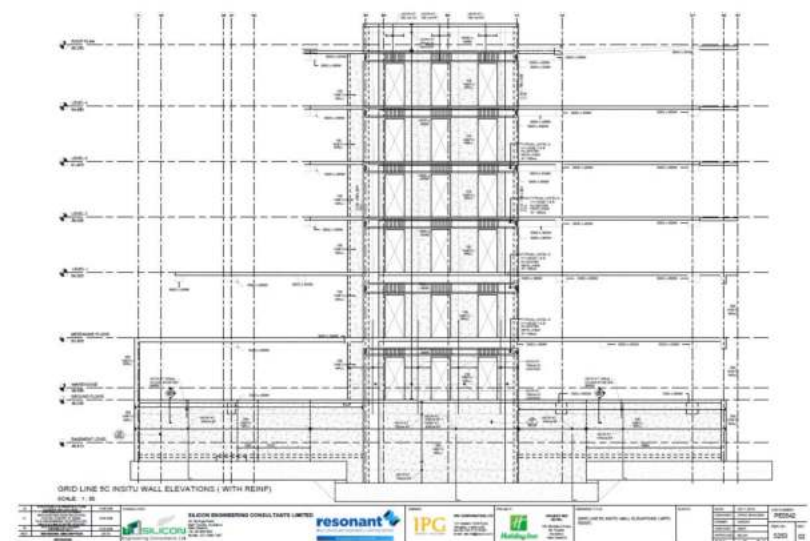
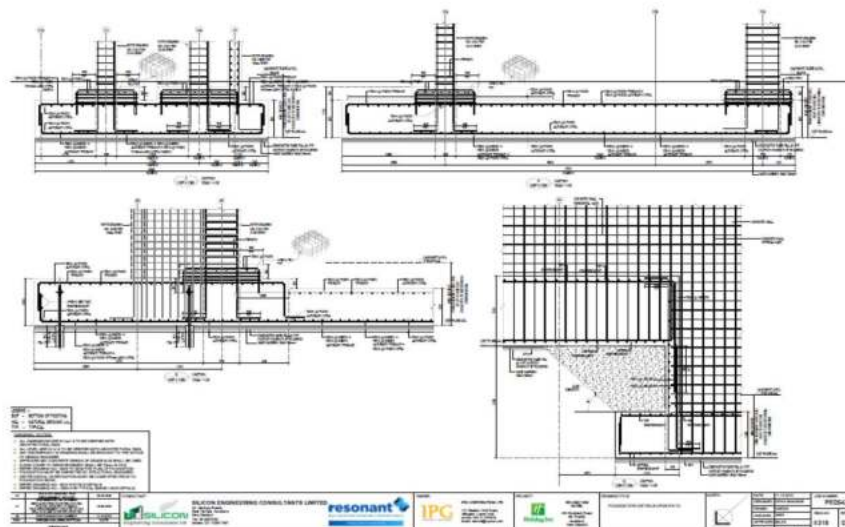
Client : IPG GROUP LTD.

Project Location : New Zealand – Auckland

Project Year : 2019

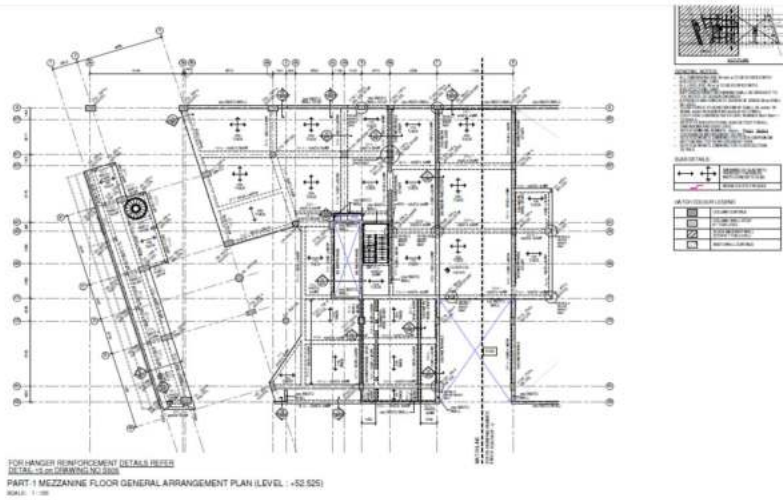
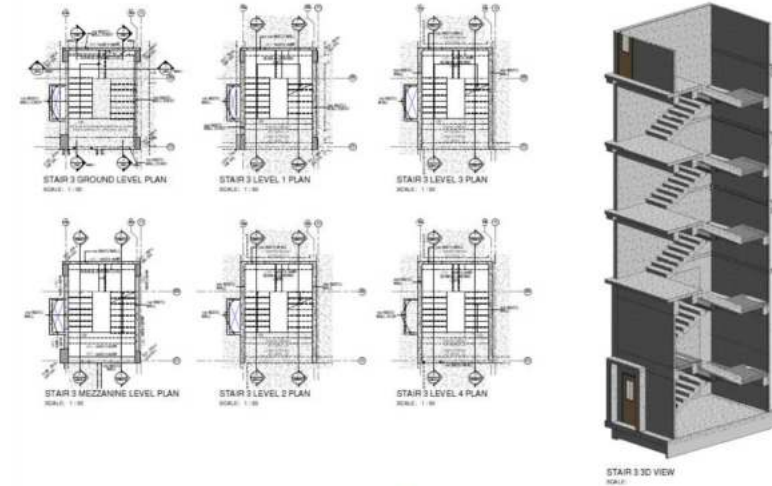
Project Description : Commercial Project

Silicon Scope : STRUCTURE ENGINEERING



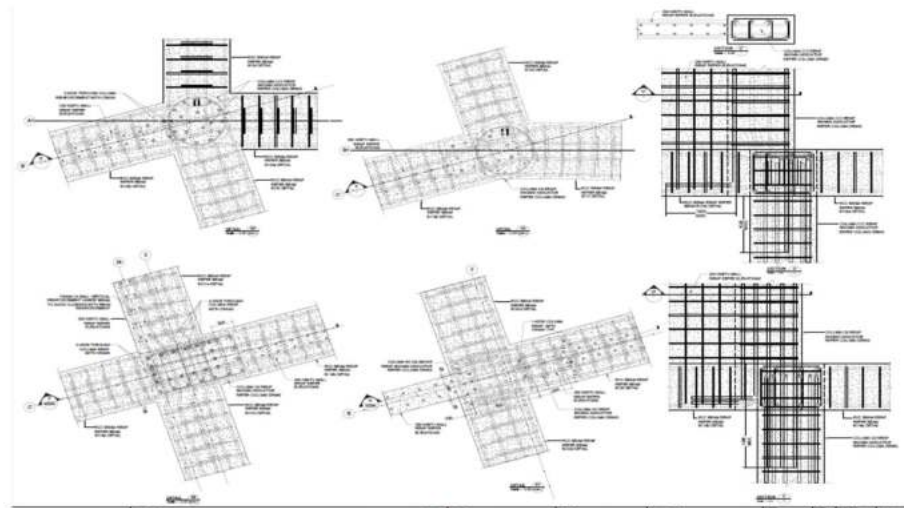


## COMMERCIAL PROJECT

[illegible]

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Category	Item	Unit	Quantity	Unit Price	Total Price	Remarks
Construction	Excavation	m³	100	120	12000	
	Foundation	m³	50	240	12000	
	Concrete	m³	200	150	30000	
	Reinforcement	m³	100	180	18000	
Electrical	Cable	m	1000	10	10000	
	Switch	unit	50	200	10000	
	Lighting	unit	100	150	15000	
	Control	unit	20	300	6000	
Mechanical	Pump	unit	10	4000	40000	
	Motor	unit	20	2000	40000	
	Valve	unit	50	1000	50000	
	Pipe	m	1000	50	50000	
Civil	Wall	m²	1000	100	100000	
	Floor	m²	500	200	100000	
	Roof	m²	200	300	60000	
	Foundation	m³	100	240	24000	

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# COMMERCIAL PROJECT

## PROJECT DETAILS

Project Name : MOBIL PETROL STATION

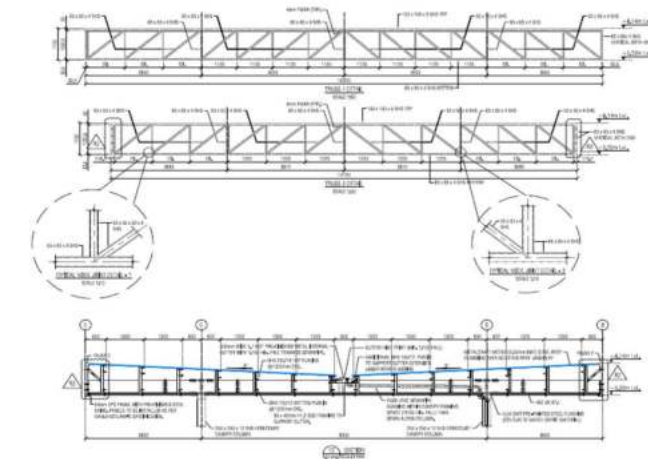
Client Name : GULATI GROUP

Project Location : New Zealand

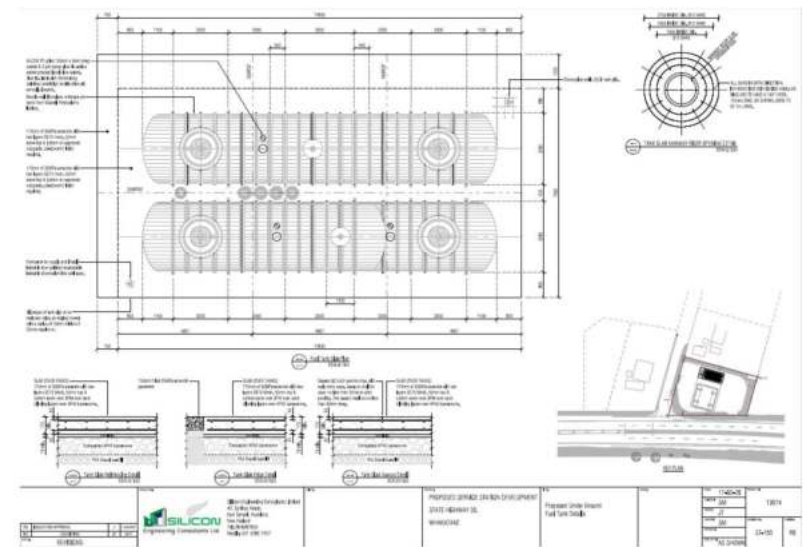
Project Duration : 2019

Project Description : Commercial Project

Silicon Scope : STRUCTURE ENGINEERING



PREPARED BY: [Signature] CHECKED BY: [Signature] DESIGNED BY: [Signature] DATE: 10/10/2019	PROJECT: PROPOSED SERVICE STATION DEVELOPMENT SITE: STATE HIGHWAY 20 LOCATION: SHAGBUSH	DRAWING NO: 10/10/2019 SCALE: 1:100 SHEET: 1 OF 1
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PREPARED BY: [Signature] CHECKED BY: [Signature] DESIGNED BY: [Signature] DATE: 10/10/2019	PROJECT: PROPOSED SERVICE STATION DEVELOPMENT SITE: STATE HIGHWAY 20 LOCATION: SHAGBUSH	DRAWING NO: 10/10/2019 SCALE: 1:100 SHEET: 1 OF 1
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# COMMERCIAL PROJECT

## PROJECT DETAILS

Project Name : 5 Rathbone Street Whangarei

Client : Omega Engineering Consultants Ltd

Project Location : NEW ZEALAND

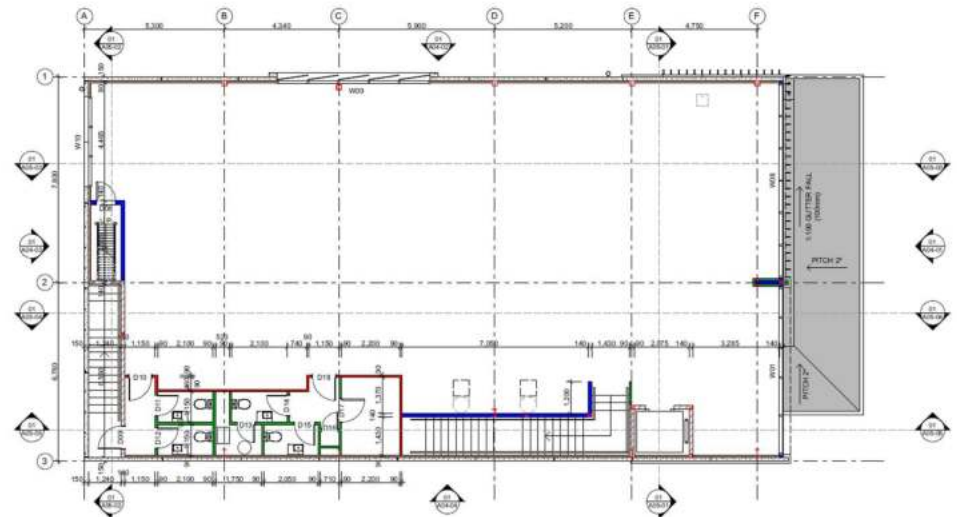
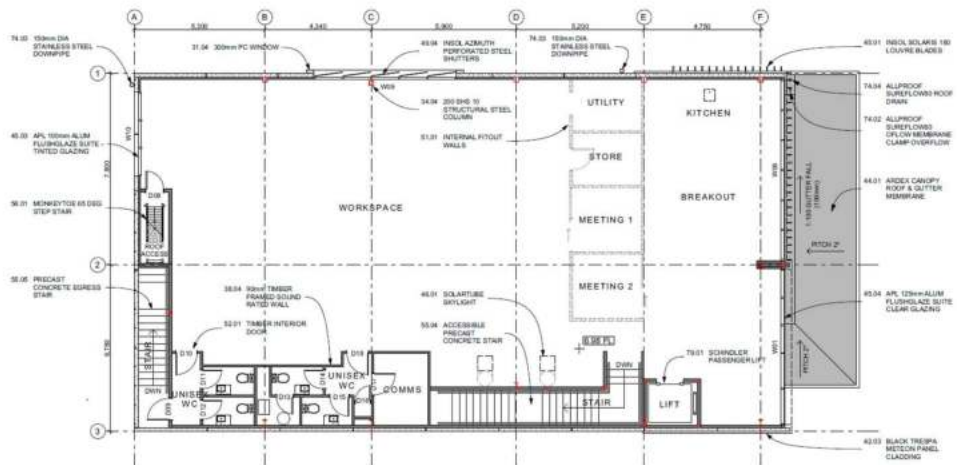
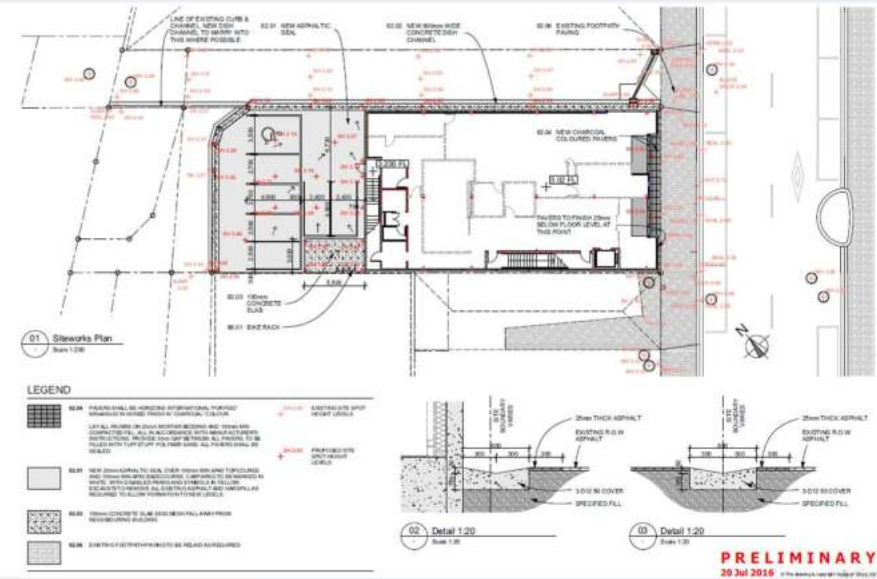
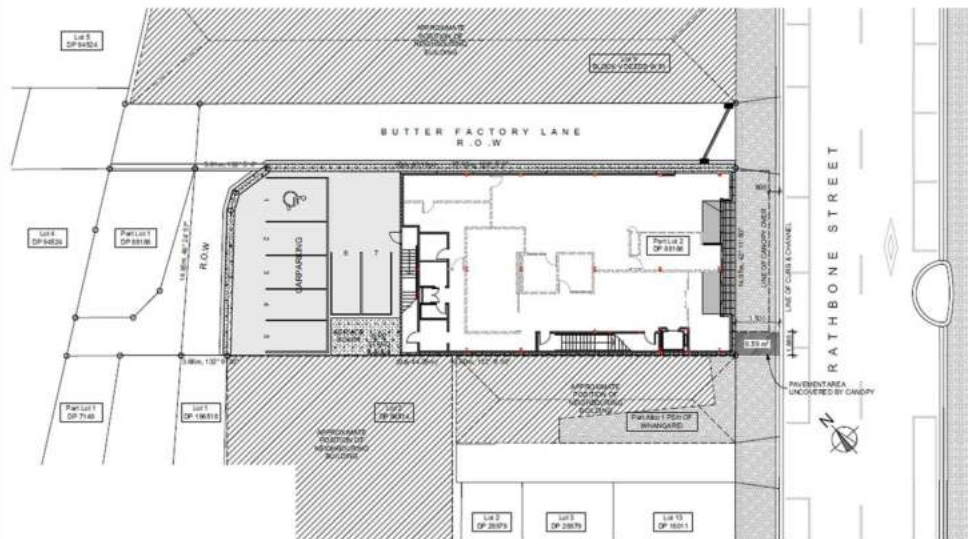
Project Year : 2016

Project Description : Commercial Project

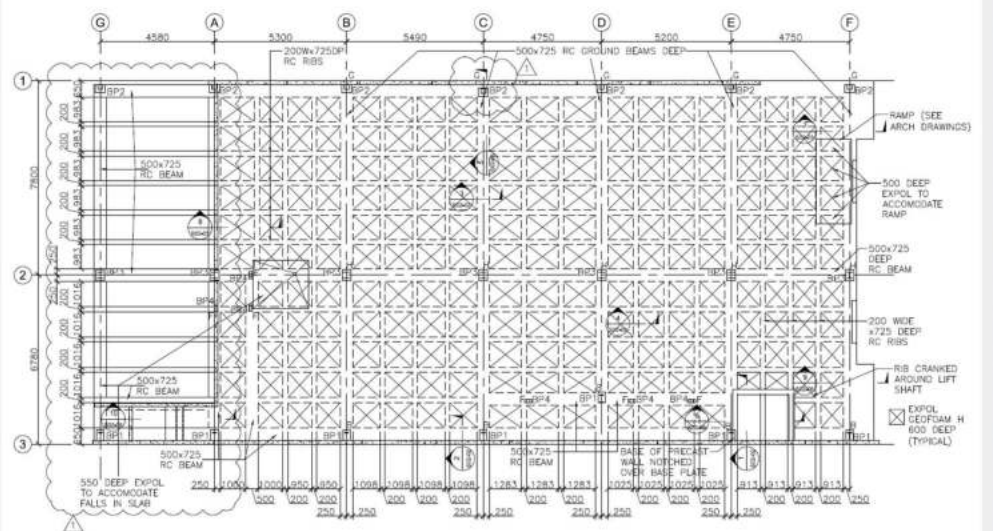
Silicon Scope : STRUCTURE ENGINEERING



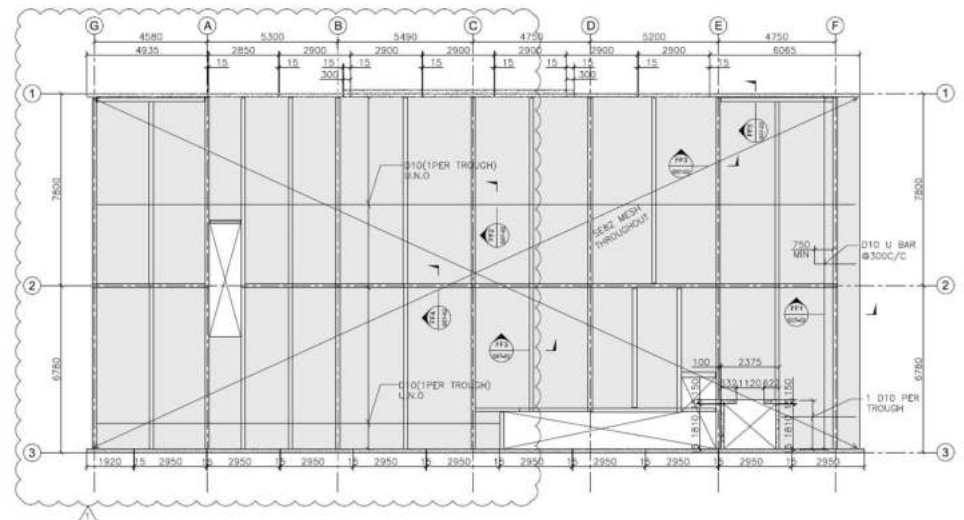
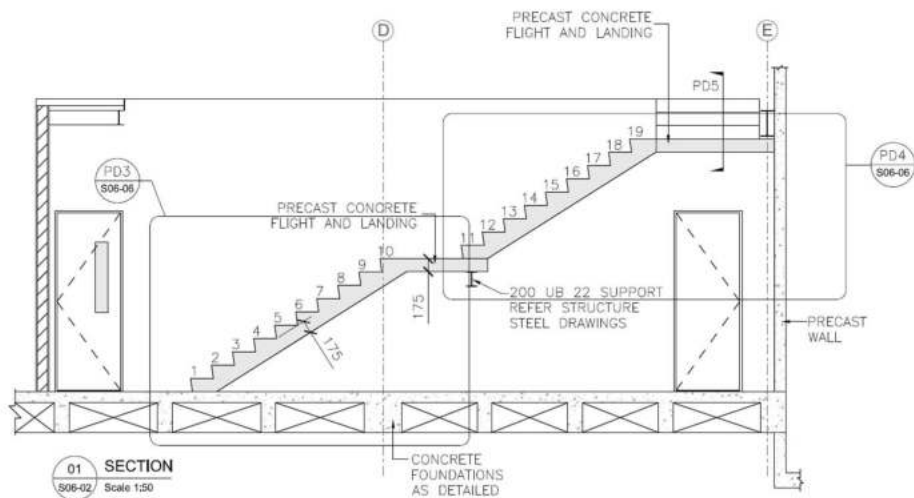
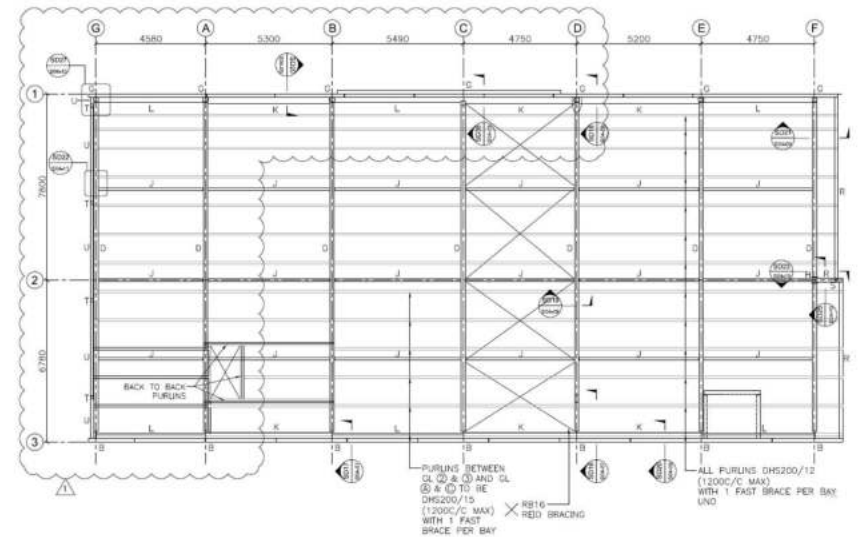
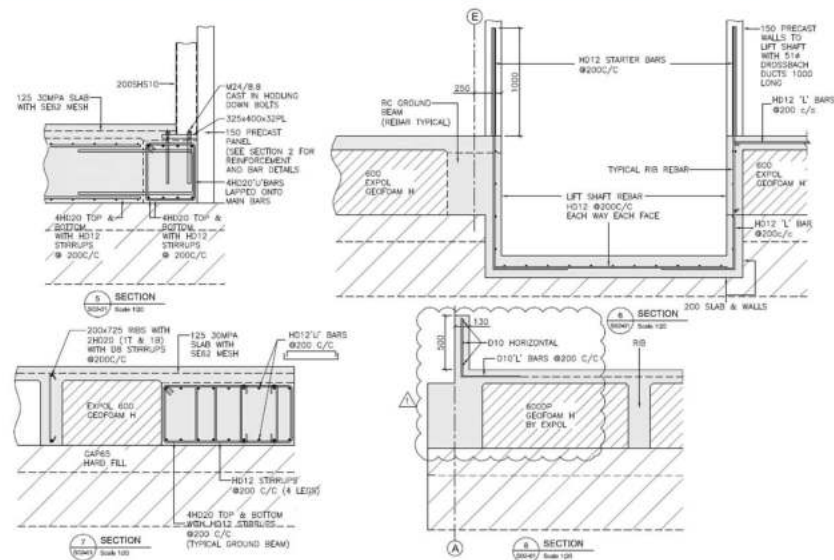
## COMMERCIAL PROJECT





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## COMMERCIAL PROJECT





# COMMERCIAL PROJECT

## PROJECT DETAILS

Project Name : CNR BRYCE & BARTON STREETS HAMILTON

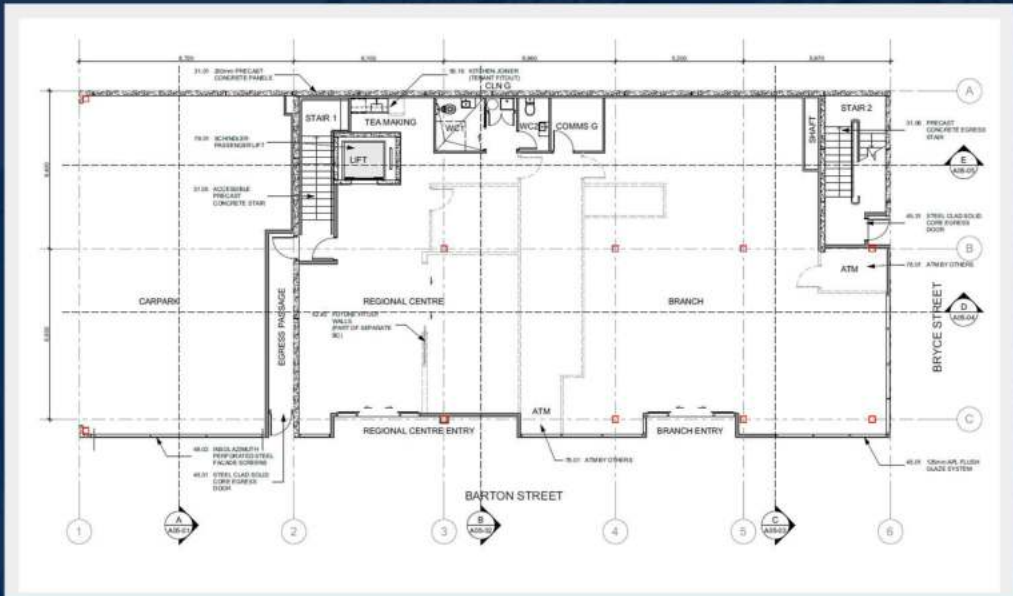
Client : Omega Engineering Consultants Ltd

Project Location : NEW ZEALAND

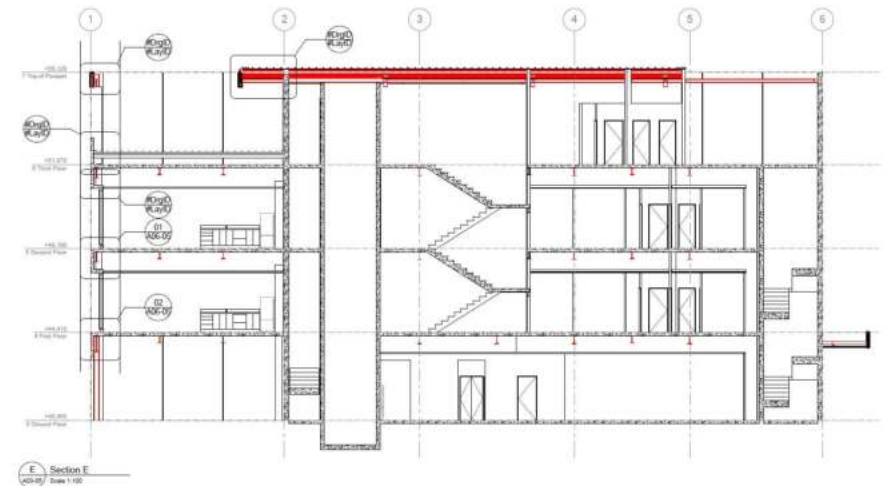
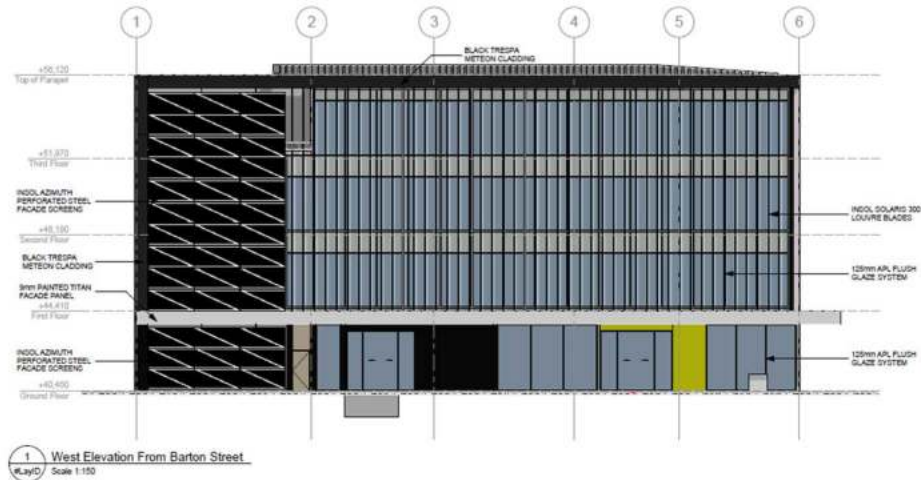
Project Year : 2016

Project Description : Commercial Project

Silicon Scope : STRUCTURE ENGINEERING

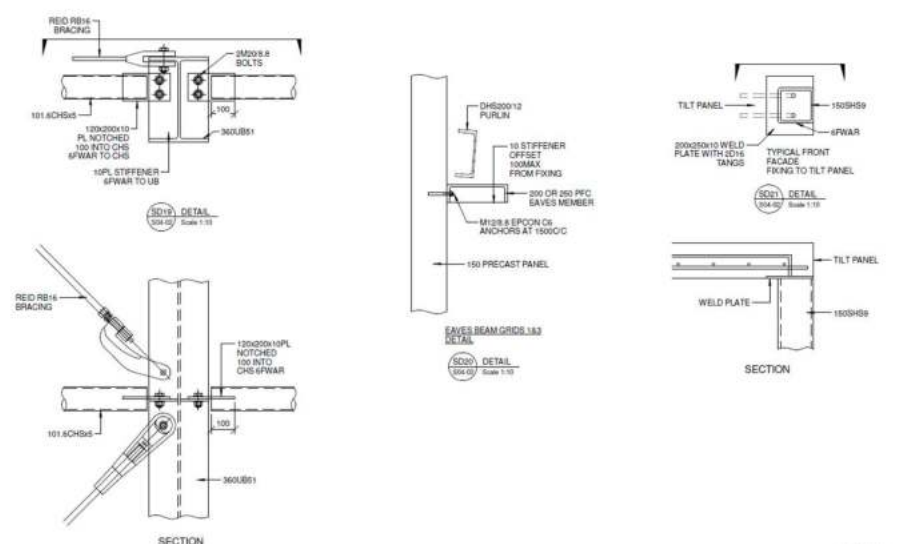
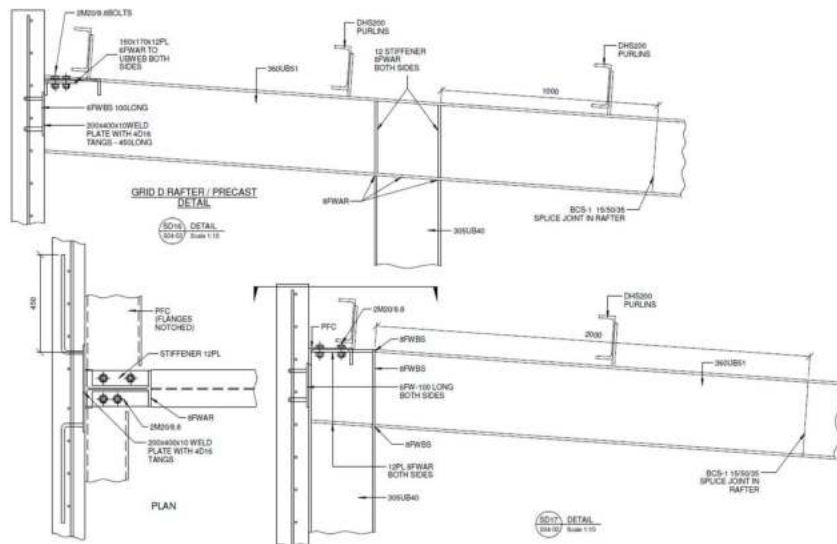
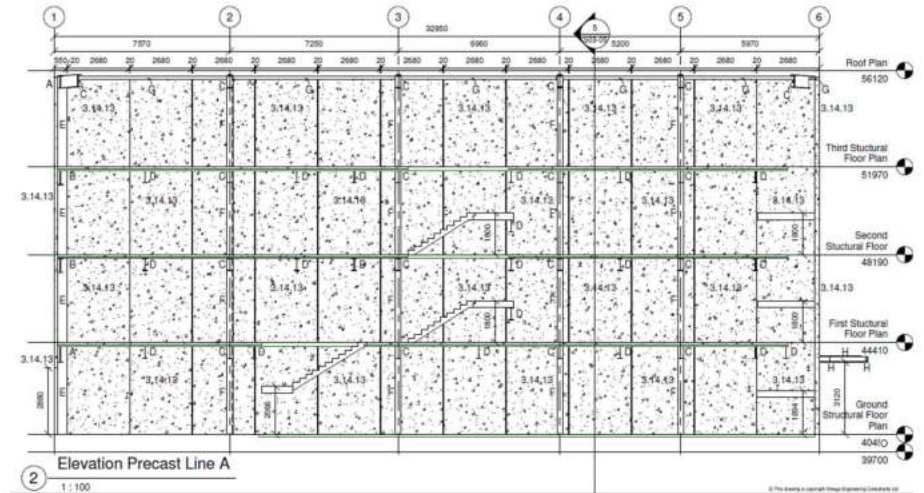
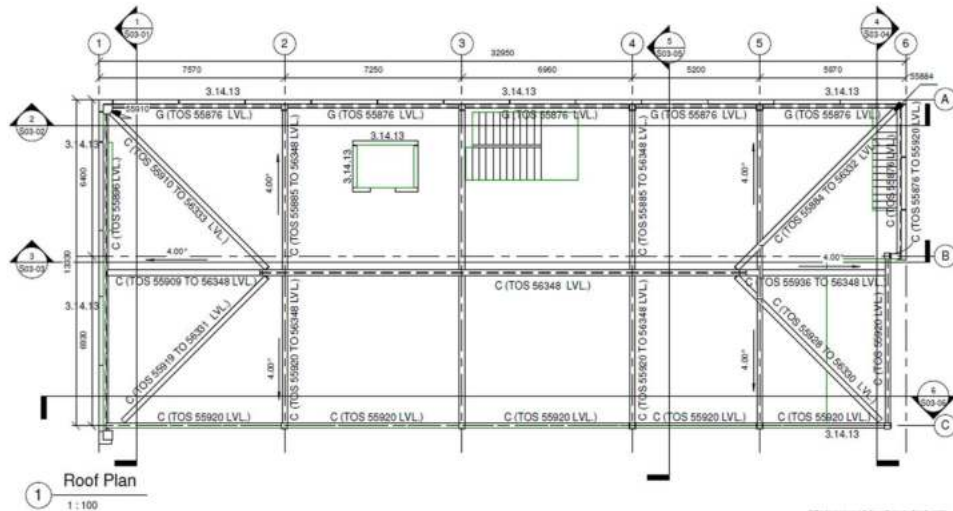


# COMMERCIAL PROJECT





# COMMERCIAL PROJECT



# COMMERCIAL PROJECT

## PROJECT DETAILS

Project Name : 1333 Cameron Road tauranga

Client : Omega Engineering Consultants Ltd

Project Description : Commercial Project

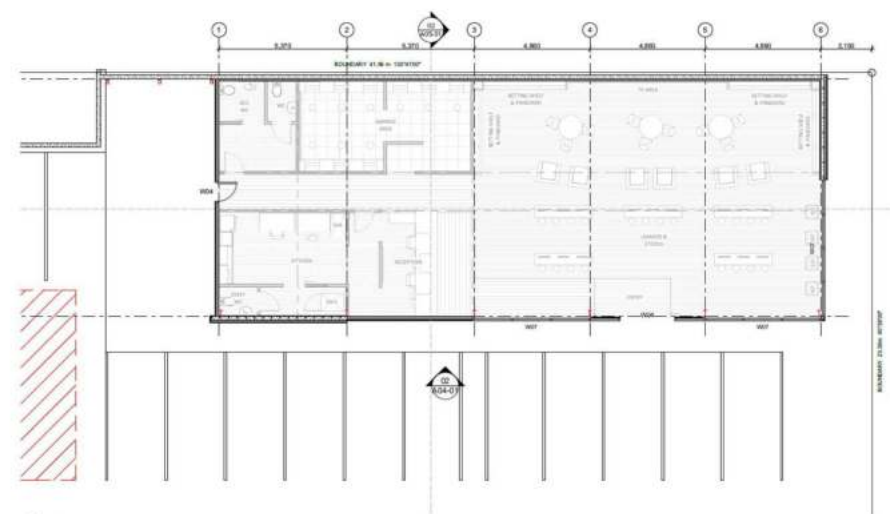
Project Location : New Zealand

Project Year : 2016-2017

Silicon Scope : Structure Engineering



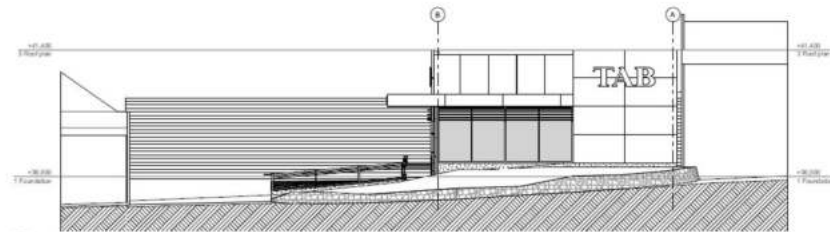
01 Site Plan  
Scale 1:100



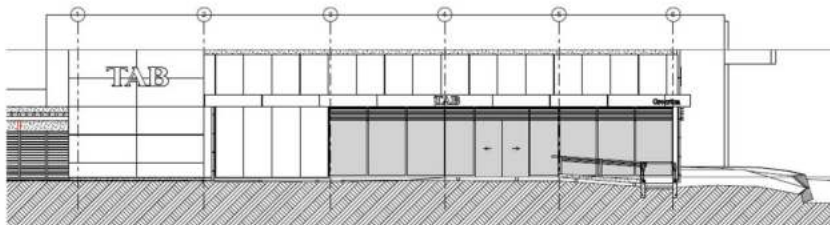
01 Ground Floor Plan  
Scale 1:100



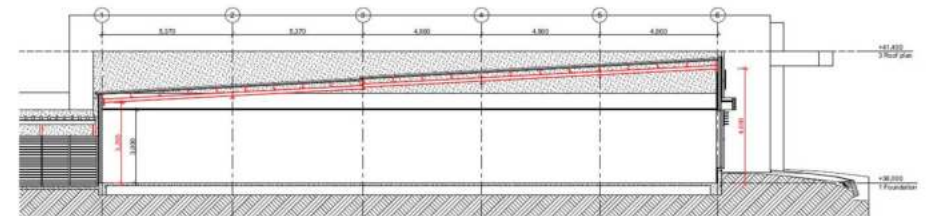
# COMMERCIAL PROJECT



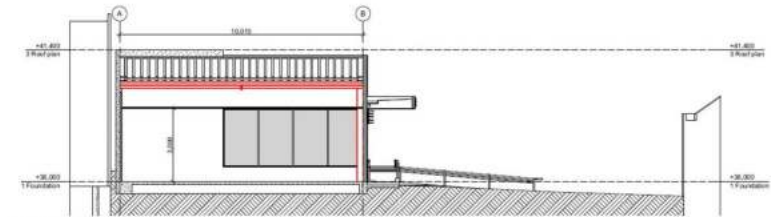
01 South East Elevation  
Scale 1:100



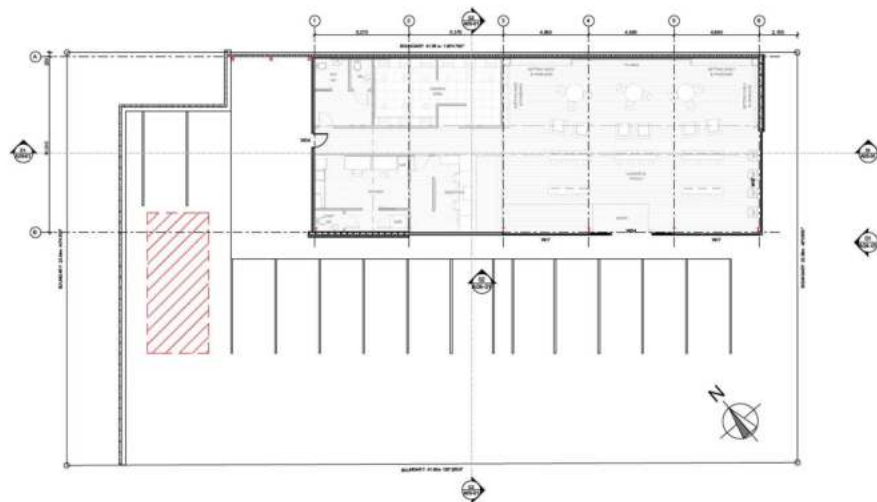
02 South West Elevation  
Scale 1:100



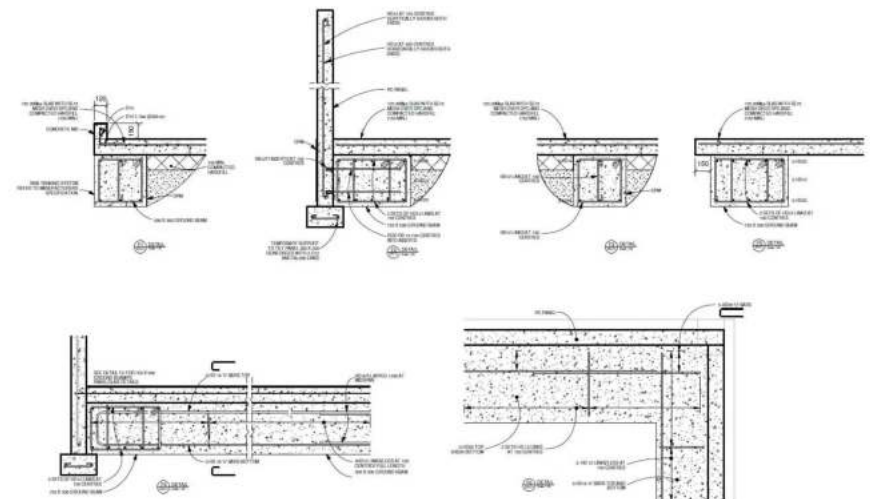
01 Section A-A  
Scale 1:100



02 Section B-B  
Scale 1:100



01 Site Plan  
Scale 1:100







# COMMERCIAL PROJECT

## PROJECT DETAILS

Project Name : UNION GREEN APARTMENTS 39-47

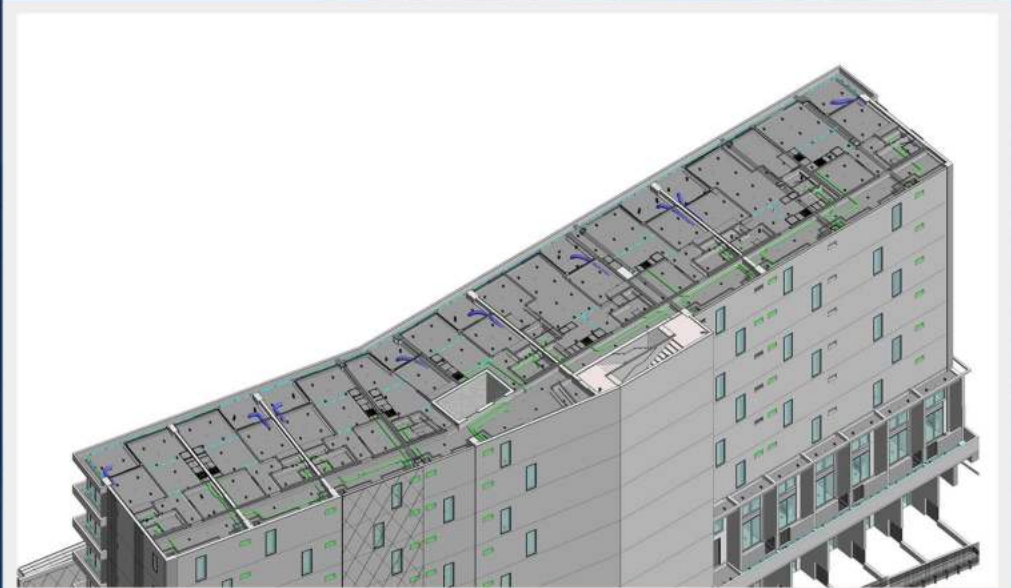
Client : Ambient Projects LTd

Project Location : NewZealand

Project Year : 2017

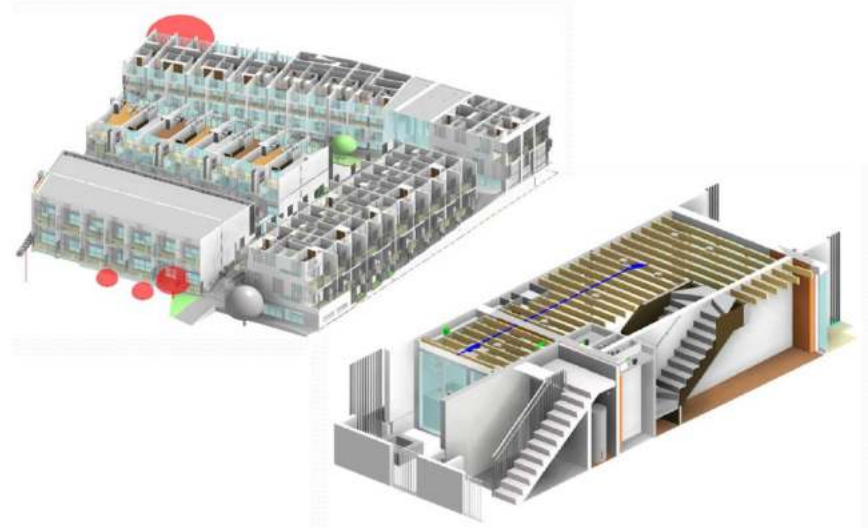
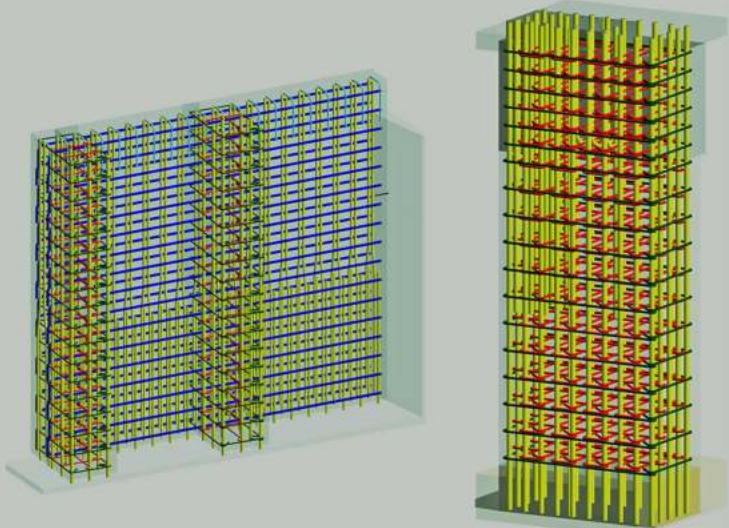
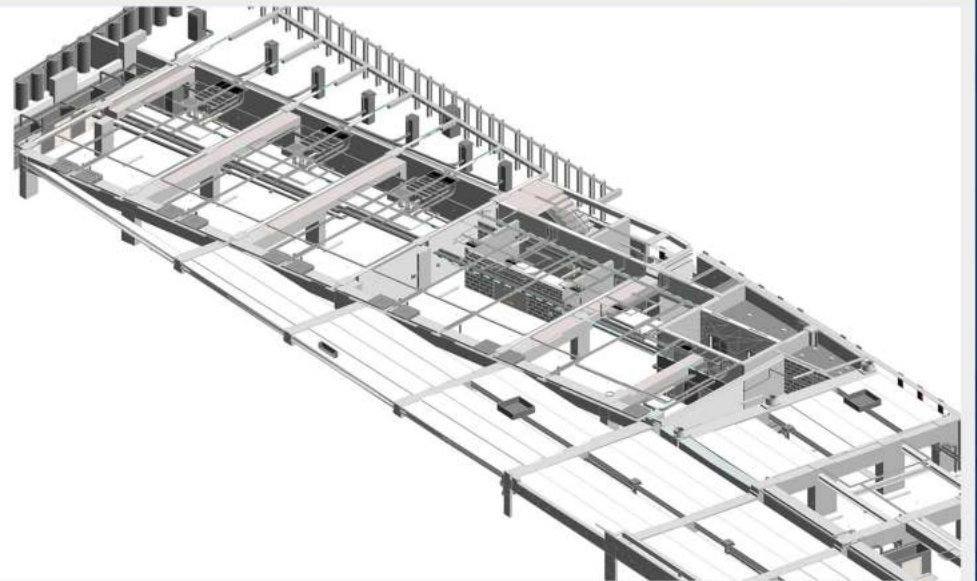
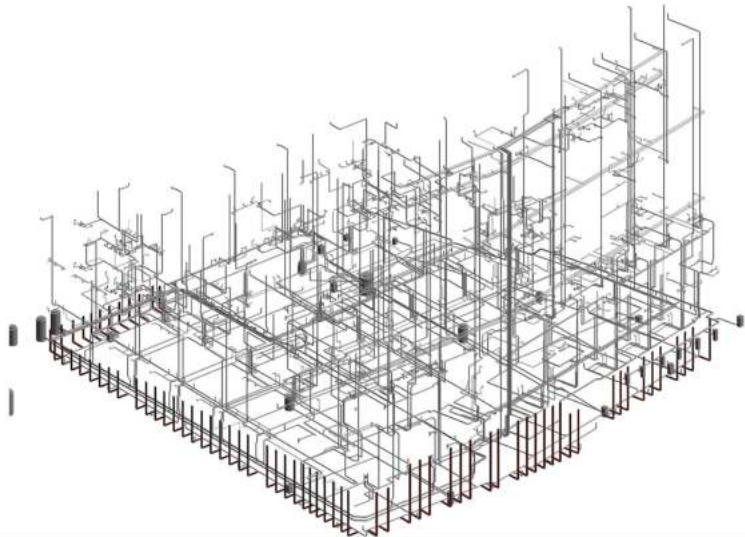
Discipline : Building Information Modelling

**Project Description :** The Union Green is a fascinating residential apartment located at Union Street. Silicon worked closely with Ambient Project limited modelling the MEP services & BIM Coordination for this project.





# COMMERCIAL PROJECT





# COMMERCIAL PROJECT

## PROJECT DETAILS

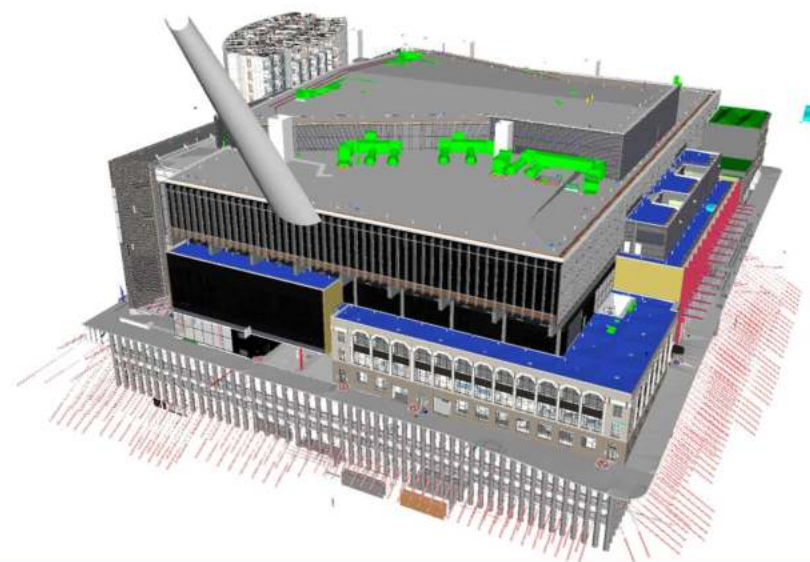
Project Name : New Zealand International Convention Center Limited

Client Name : Fletchers Construction Company

Project Location : New Zealand

Project Duration : 2017-2018

Project Description : External Carpentry-Roof Dura Panel Shop Drawings



# COMMERCIAL PROJECT

## PROJECT DETAILS

Project Name : 180 STODDARD ROAD

Client : IPG Corporation

Project Location : New Zealand

Project Year : -

Discipline : Architectural & Structural Services

**Project Description :** A Five-star hotel with G + four levels, roof top swimming pool constructed at 180 Stoddard Road by IPG Hotels. Silicon had done the structural drawings, rebar detailing and BBS.





# COMMERCIAL PROJECT

## PROJECT DETAILS

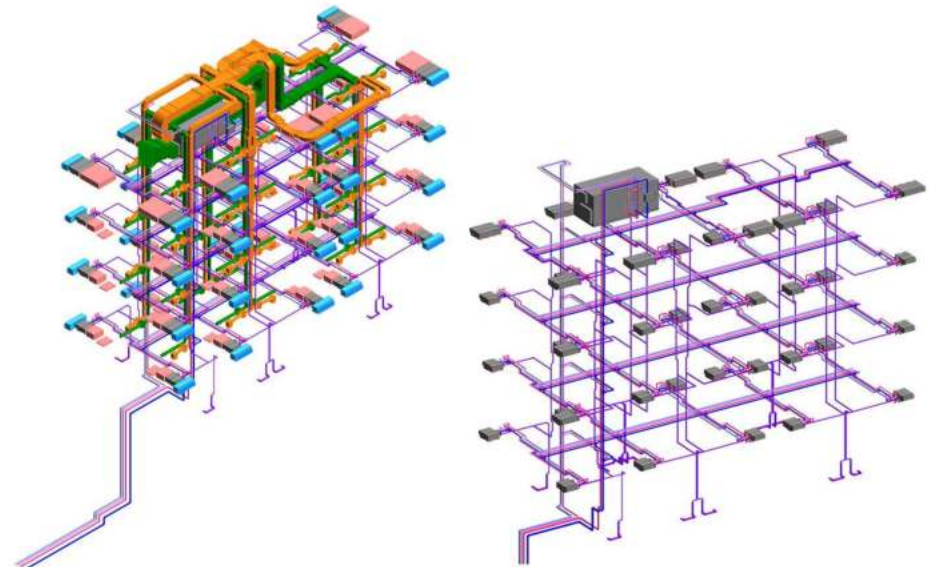
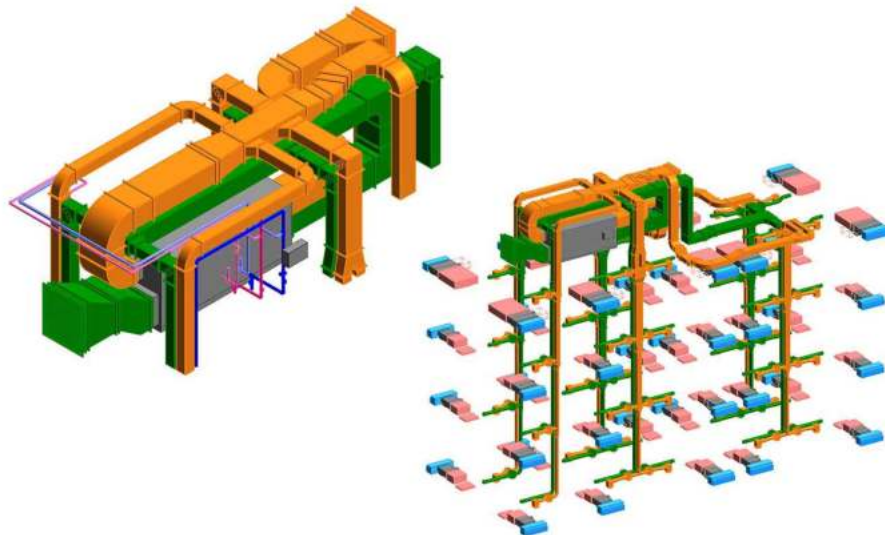
Project Name : Novotel Hotel

Client : Form Building & Developments

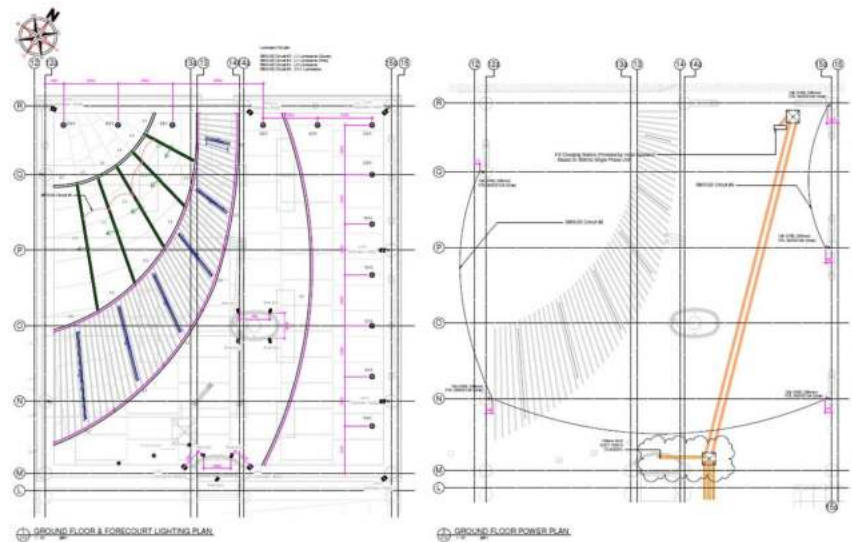
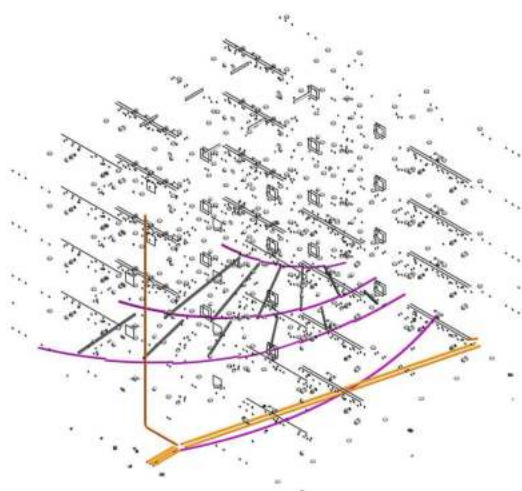
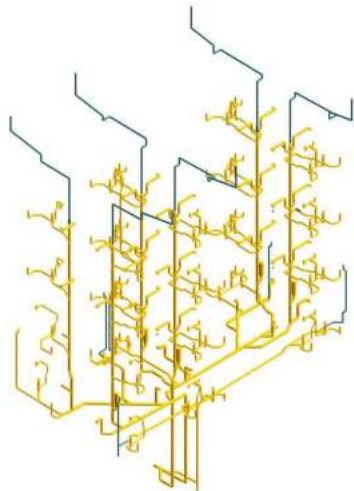
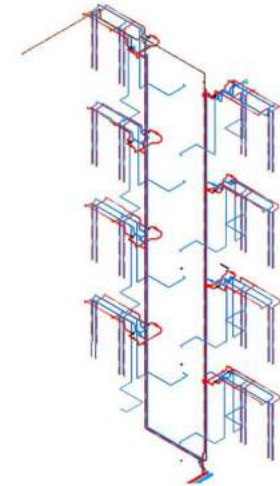
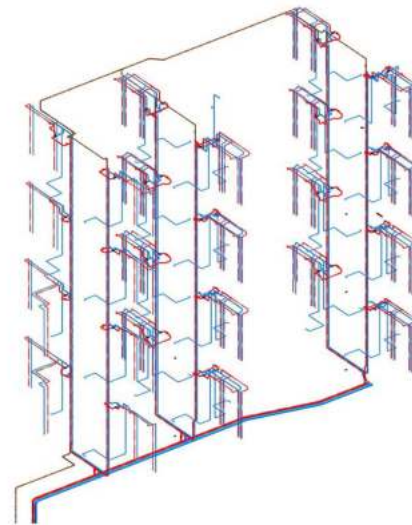
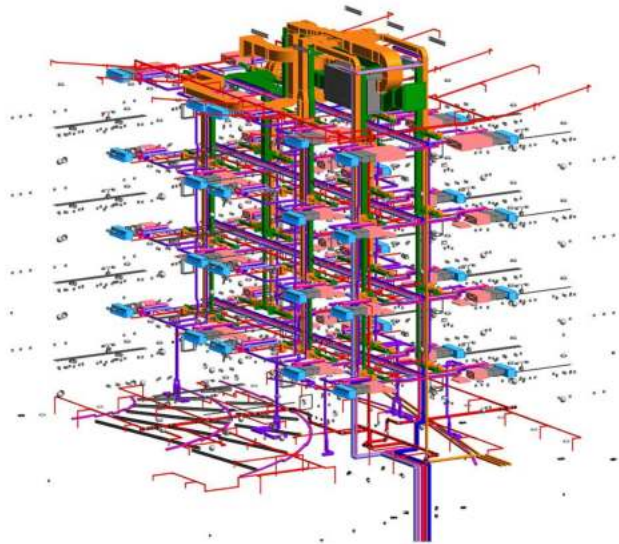
Project Location : NewZealand

Project Year : 2020

Project Description : MEPF modelling

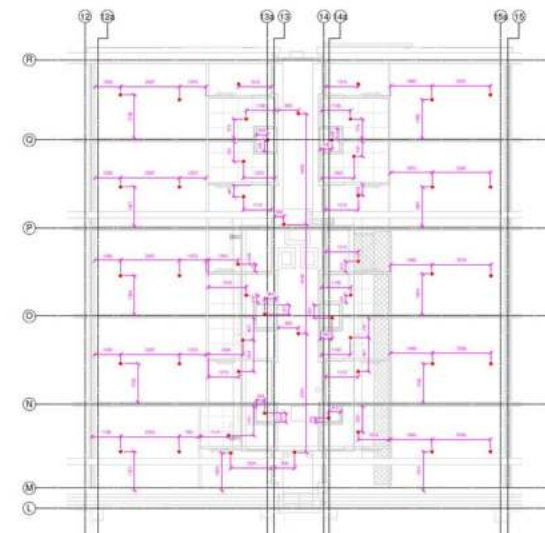
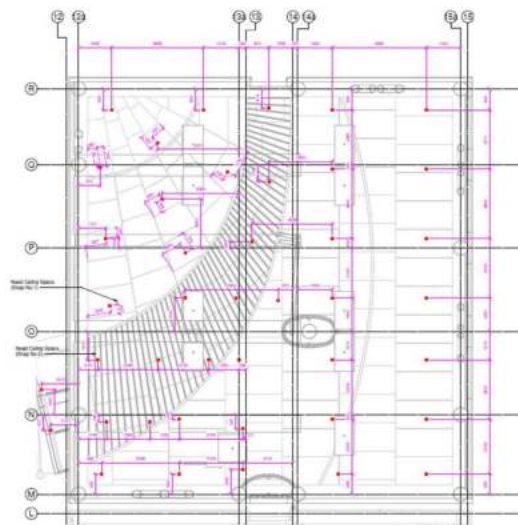
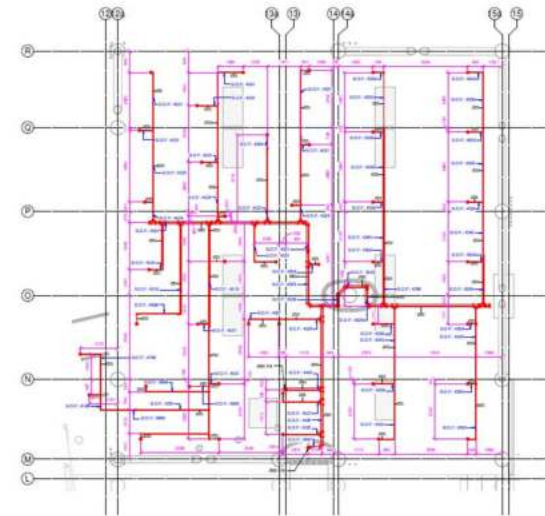
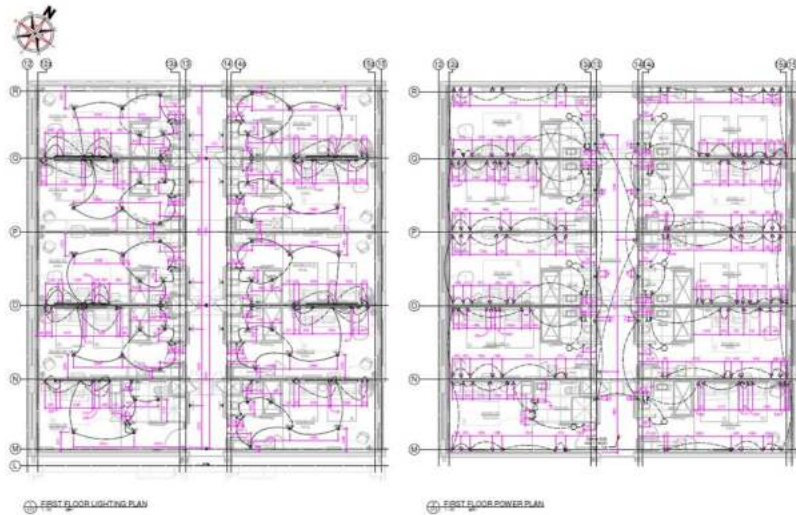


# COMMERCIAL PROJECT

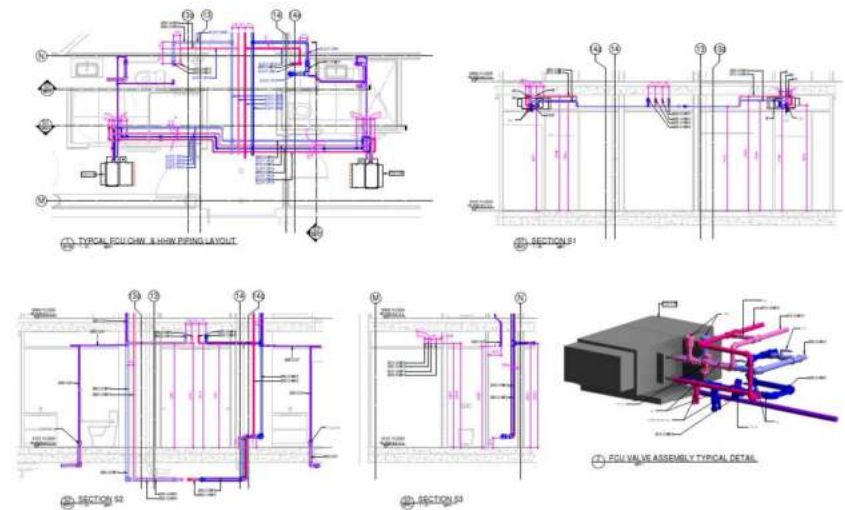
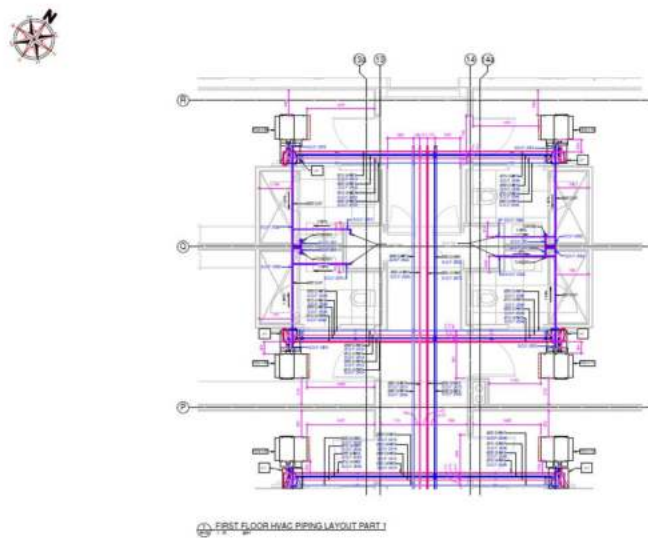
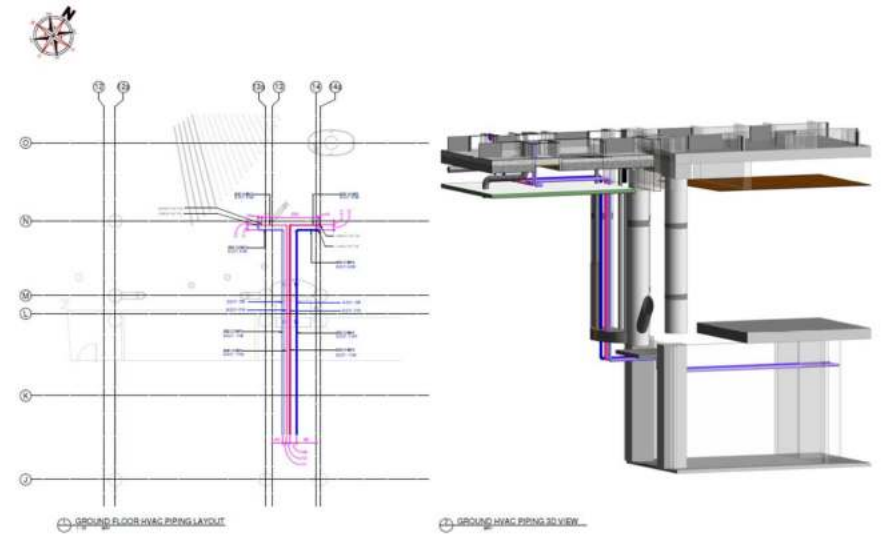
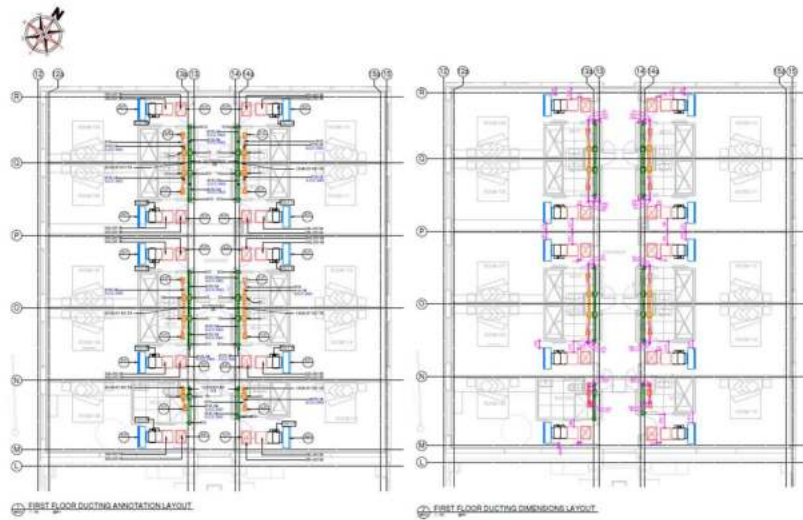




# COMMERCIAL PROJECT



# COMMERCIAL PROJECT





# COMMERCIAL PROJECT

## PROJECT DETAILS

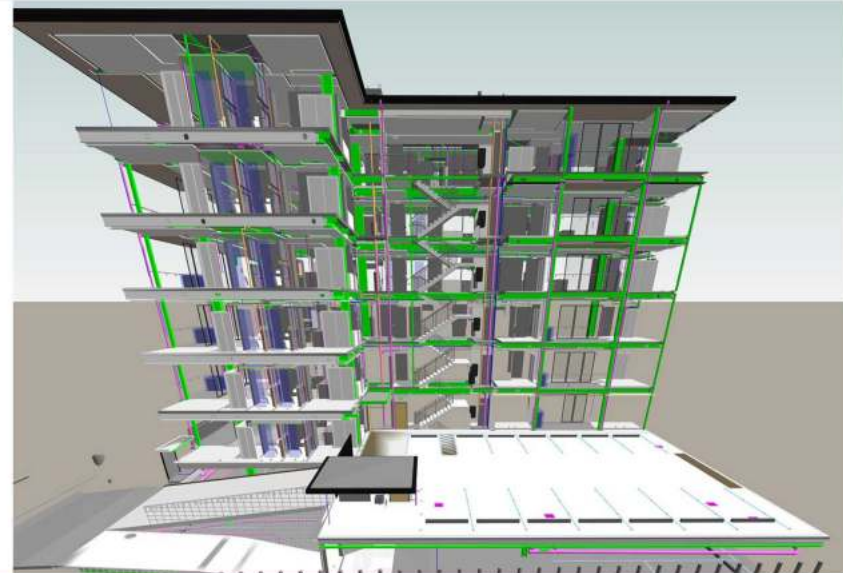
Project Name : Latitude Apartment

Client : Form Building

Project Location : New Zealand

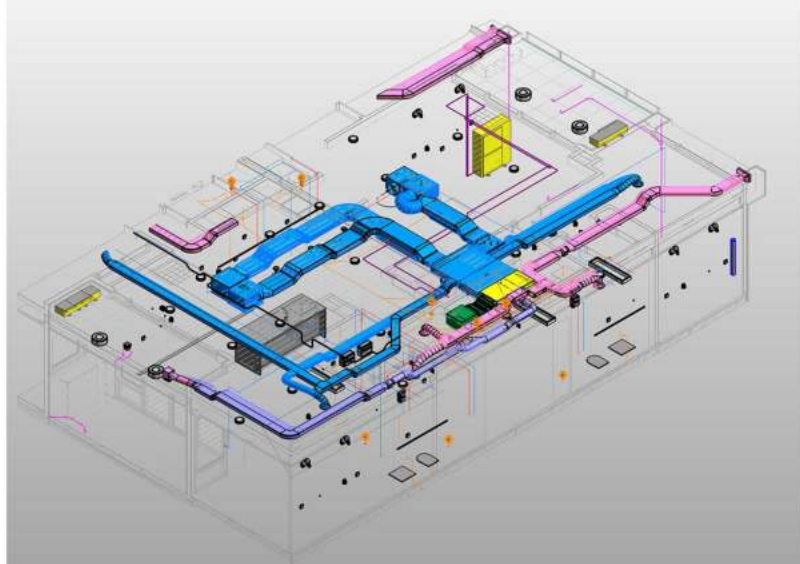
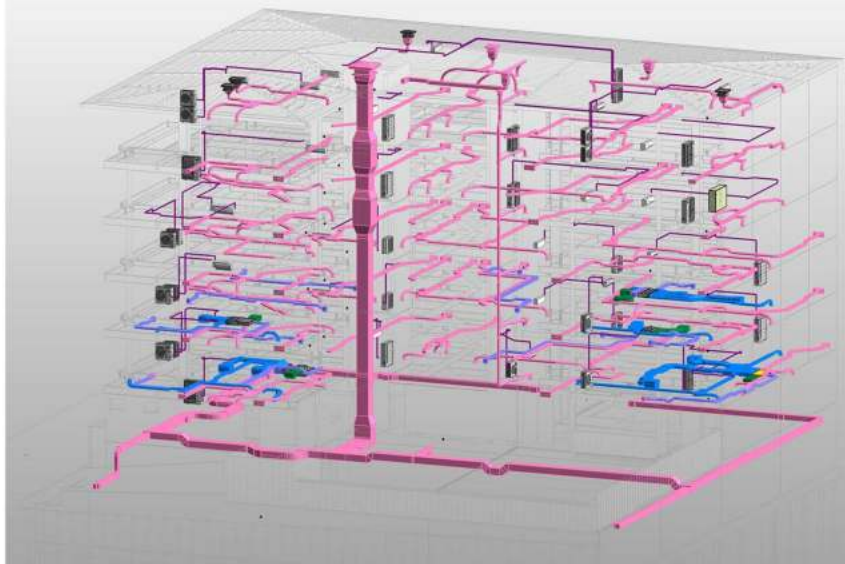
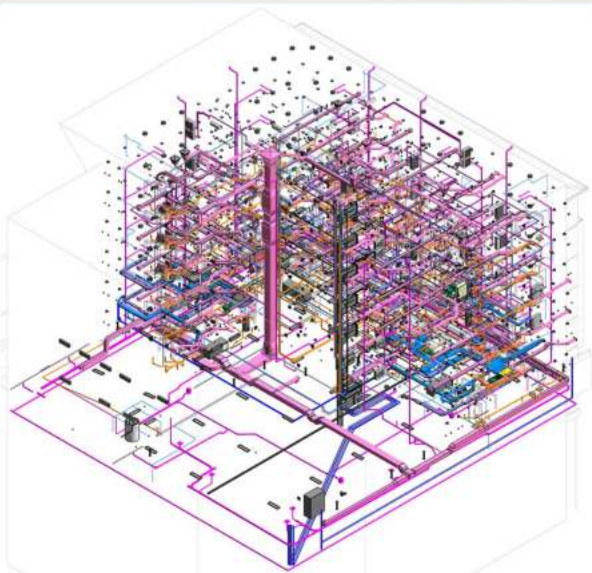
Project Year : 2018

Silicon Scope : MEPF Modelling



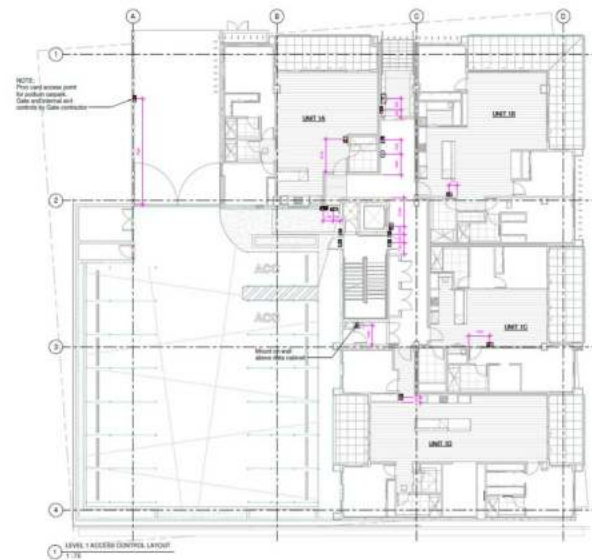
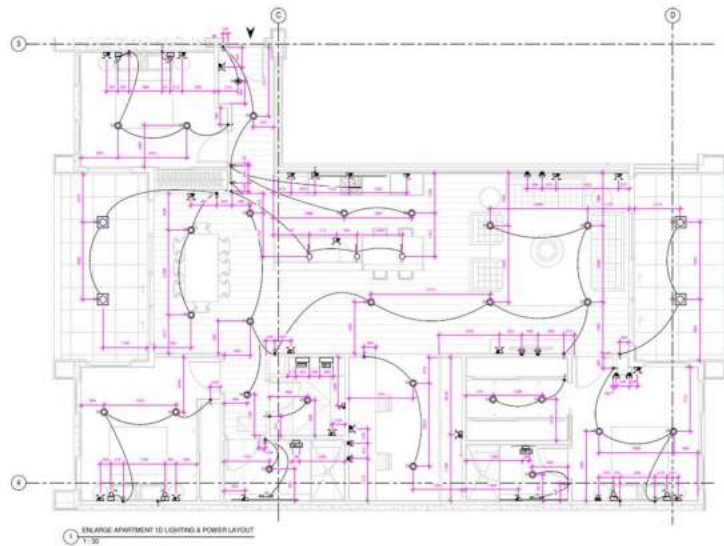
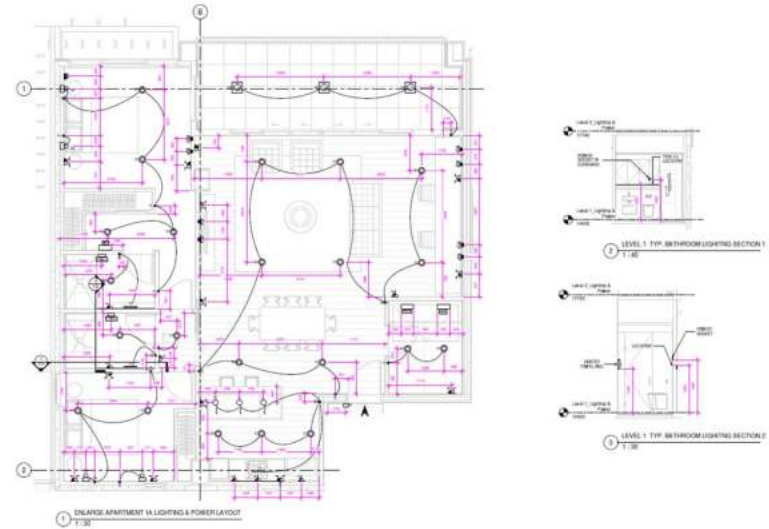
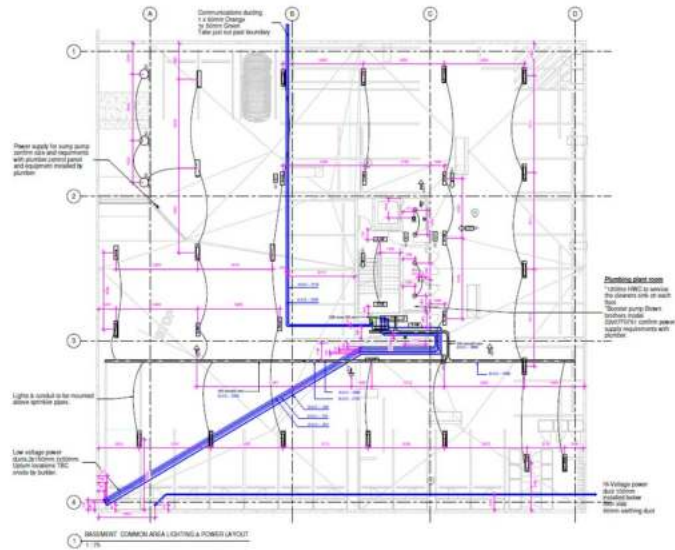


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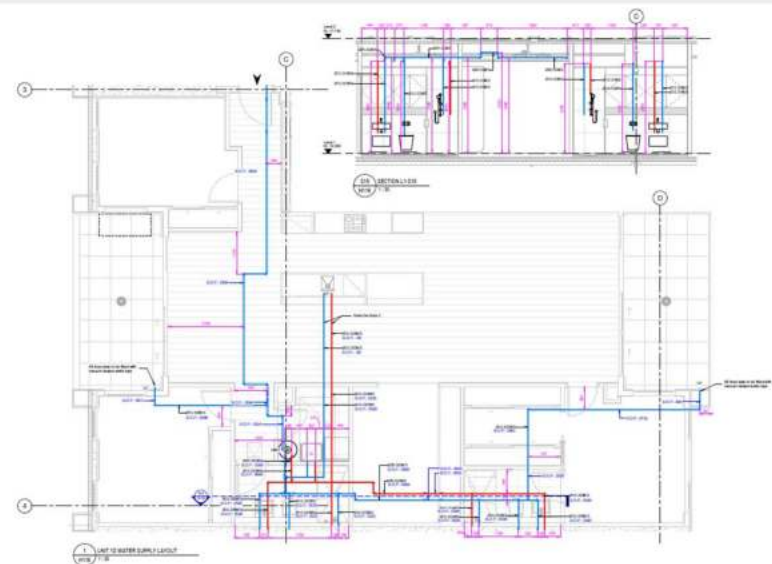
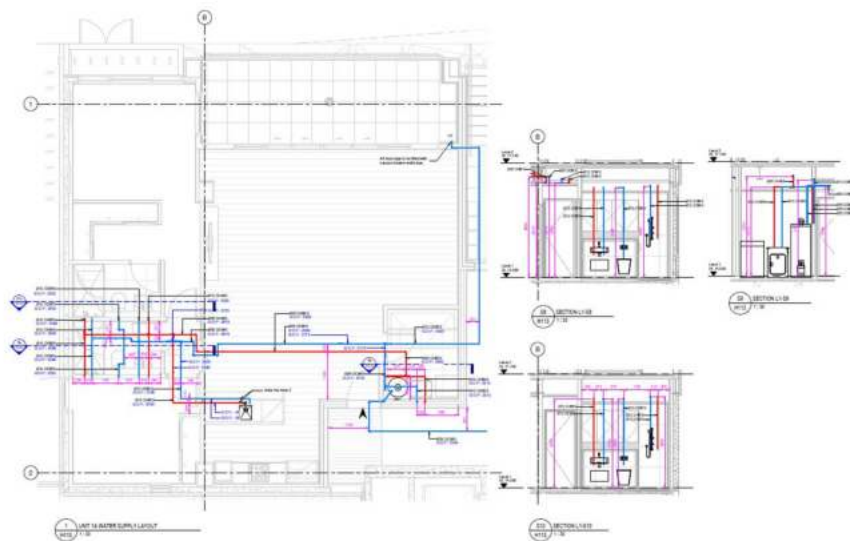
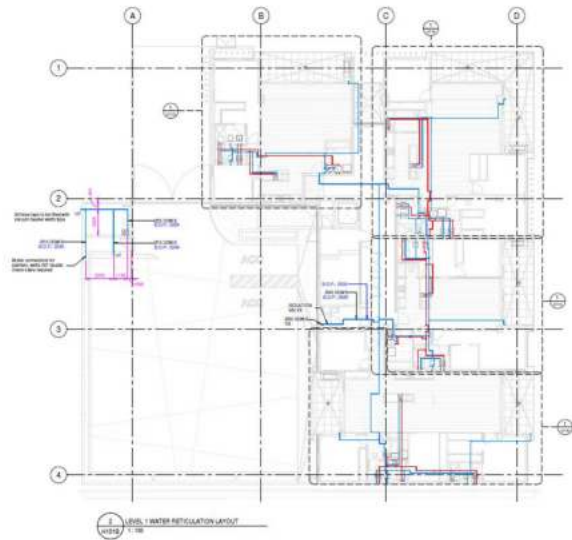




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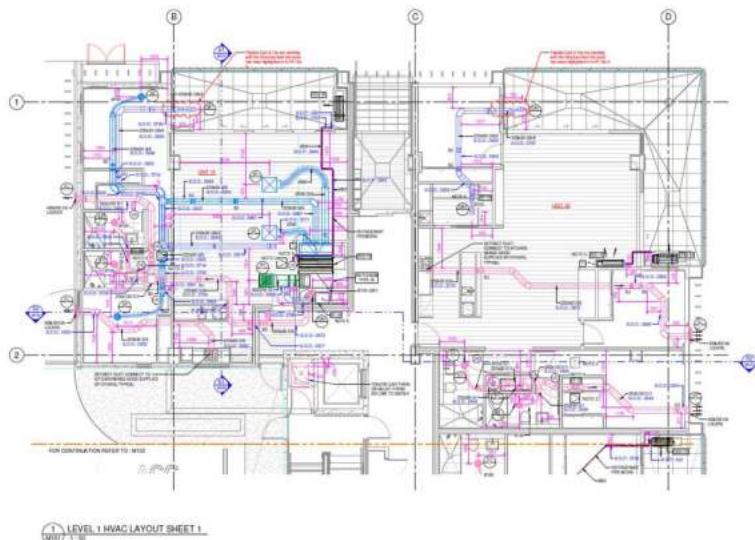
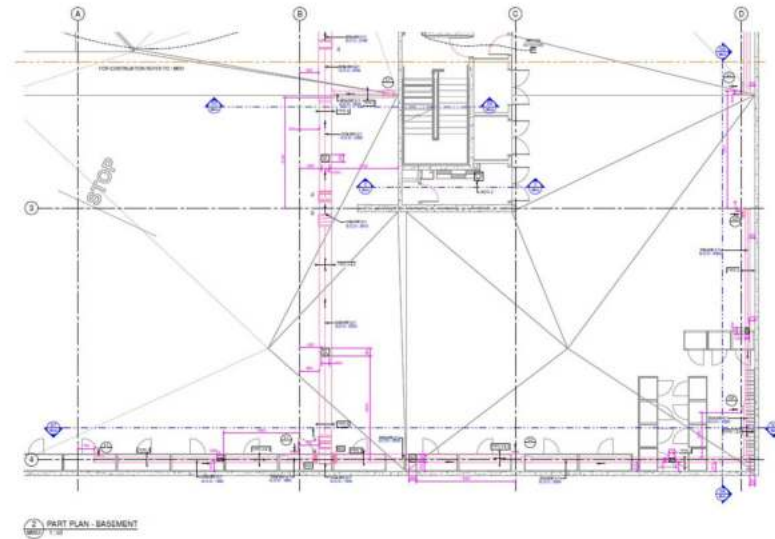
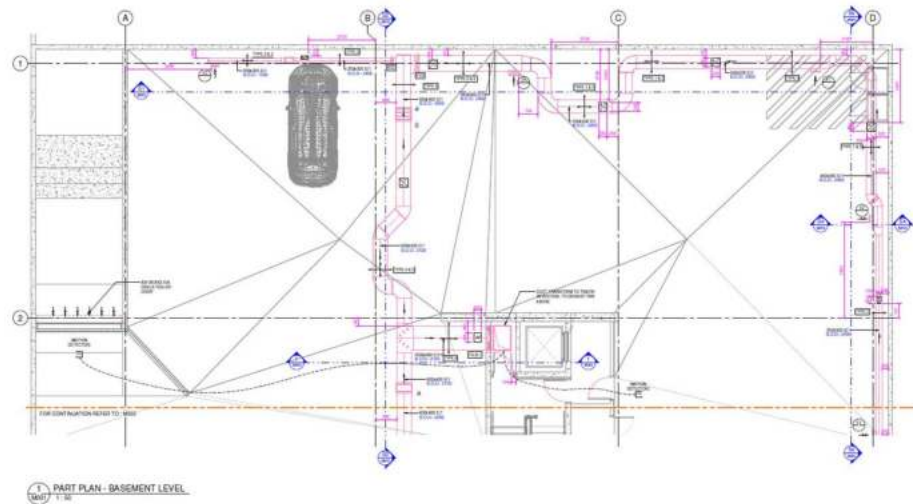


# COMMERCIAL PROJECT





# COMMERCIAL PROJECT



# COMMERCIAL PROJECT

## PROJECT DETAILS

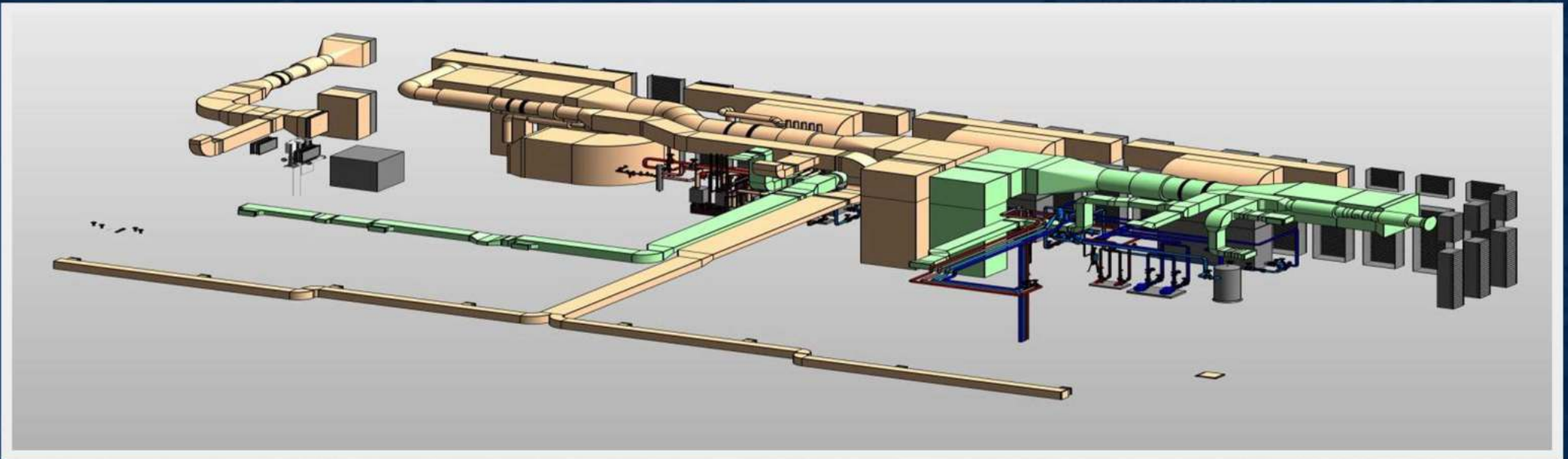
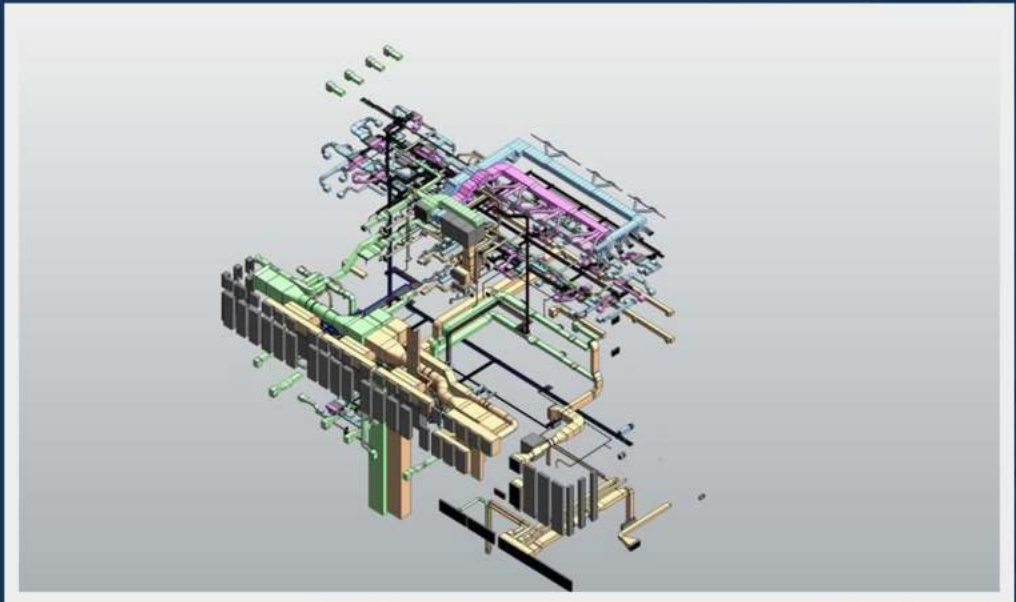
Project Name : Seascope-Customs St.

Client Name : China Construction/ Apex Air

Project Location : NewZealand

Project Year : 2021

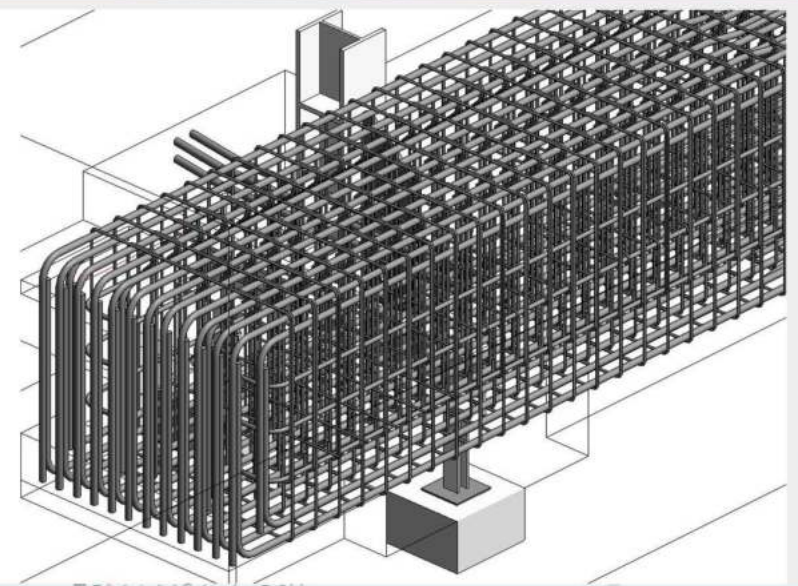
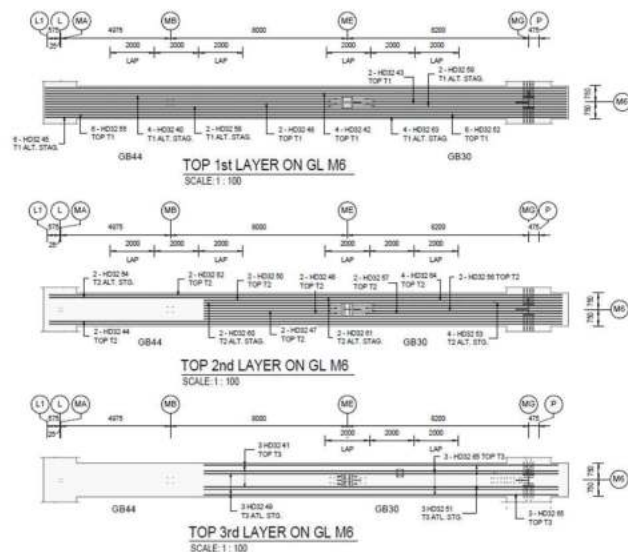
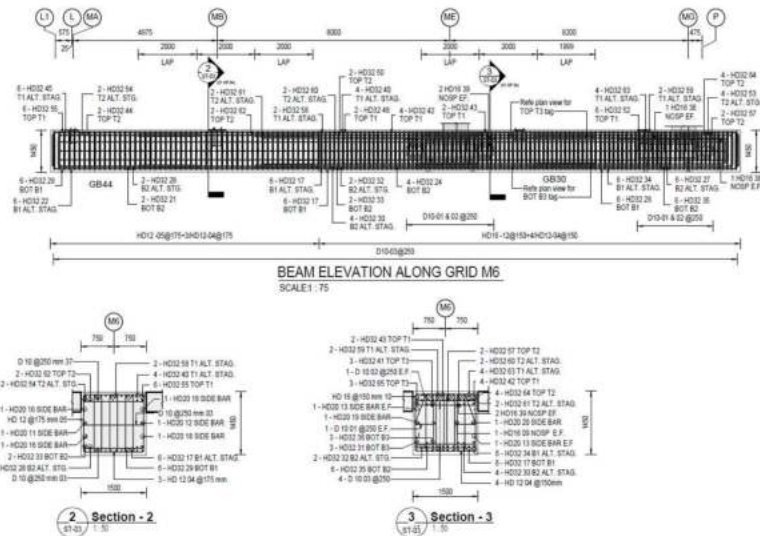
Project Description : Mepf Shop Drawings



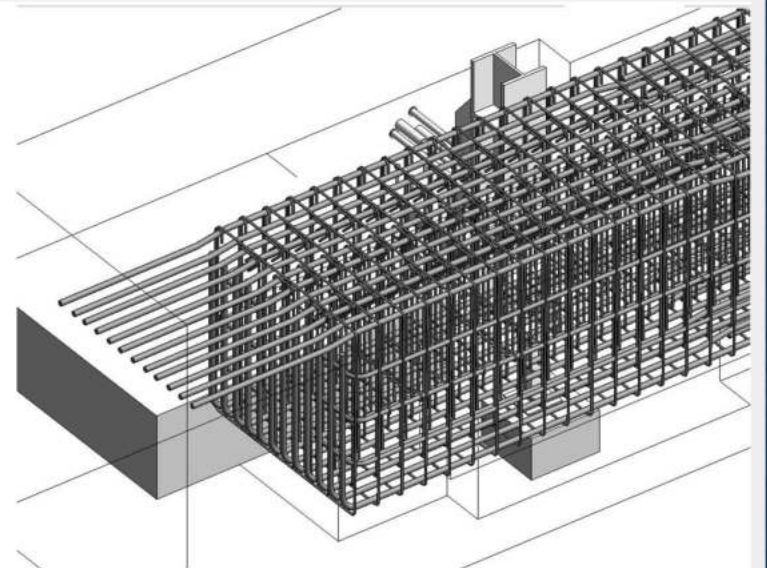
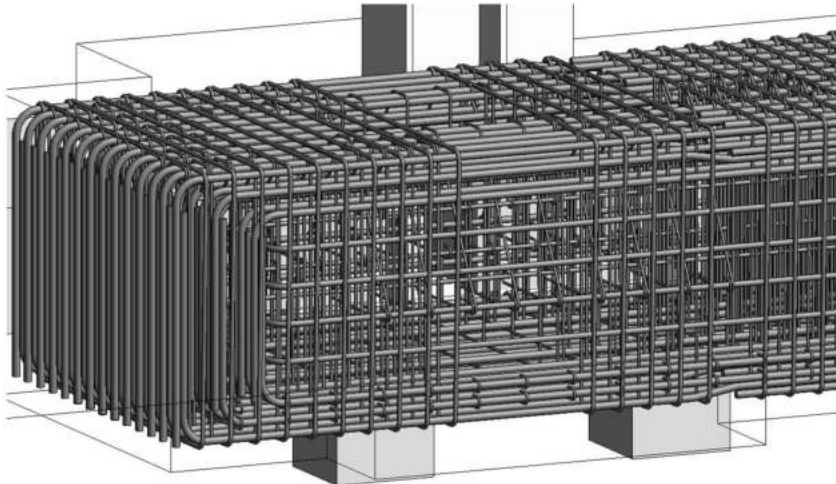
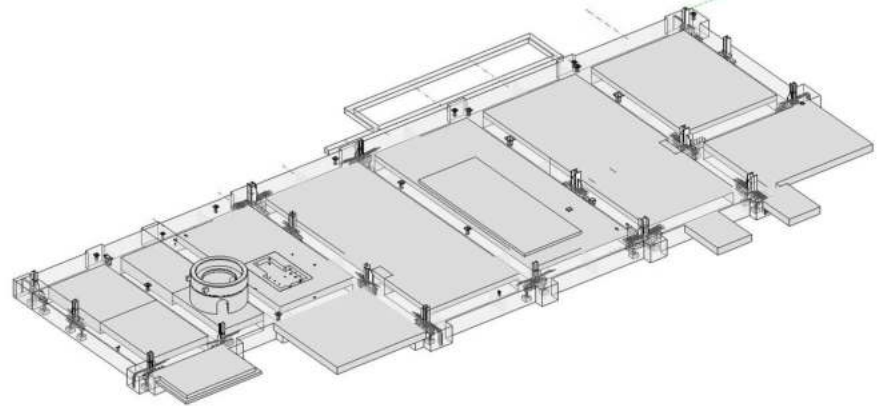
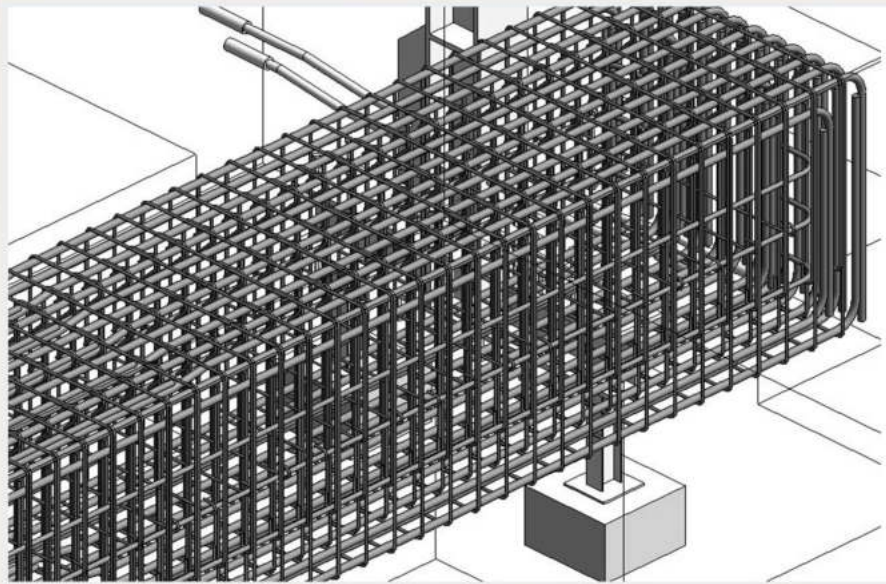


## PROJECT DETAILS

**Project Description :** A 67000m2 sized GIB Production factory constructed at Tauranga. Silicon worked closely with Fletcher reinforcing Rebar modelling the concrete kettle wall, slab and foundation on Revit 3D.



## COMMERCIAL PROJECT





# COMMERCIAL PROJECT

## PROJECT DETAILS

Project Name : BR02 Tauranga Highway

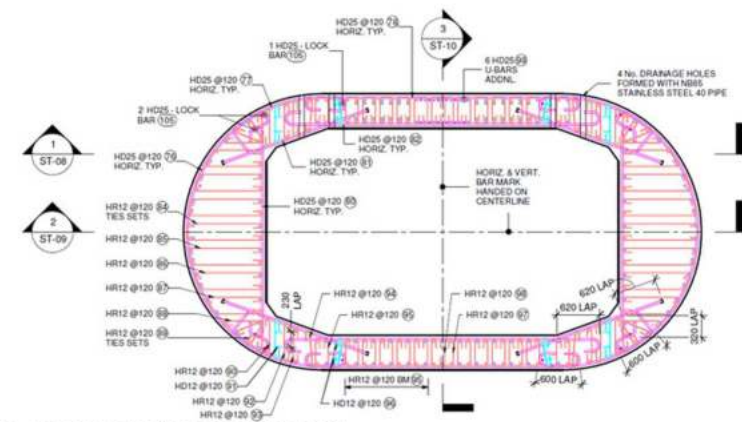
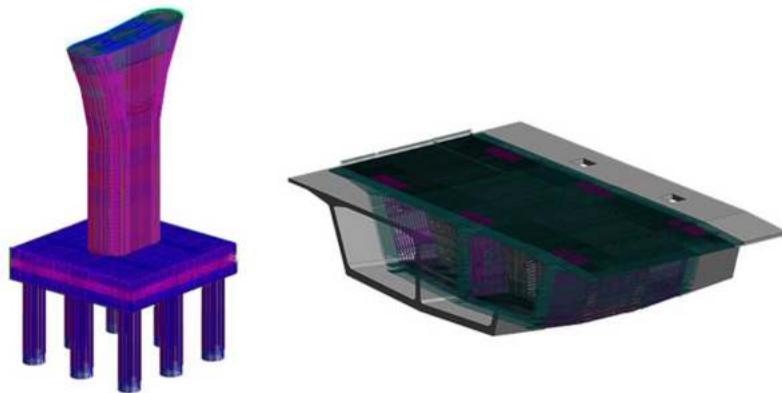
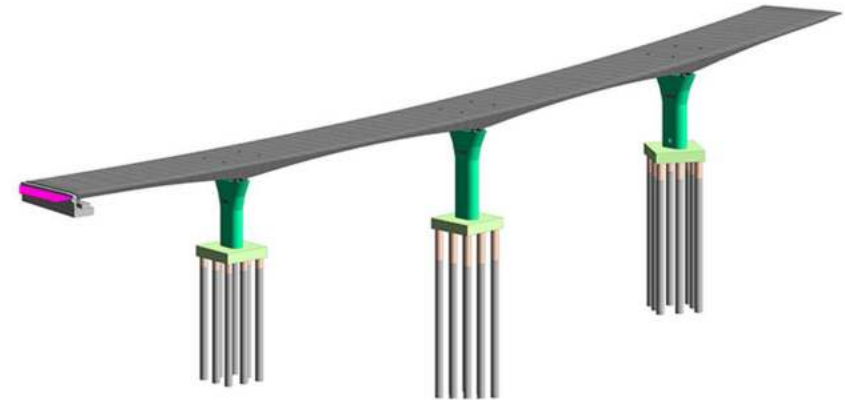
Client : HEB Construction

Project Location : New Zealand

Project Year : 2021

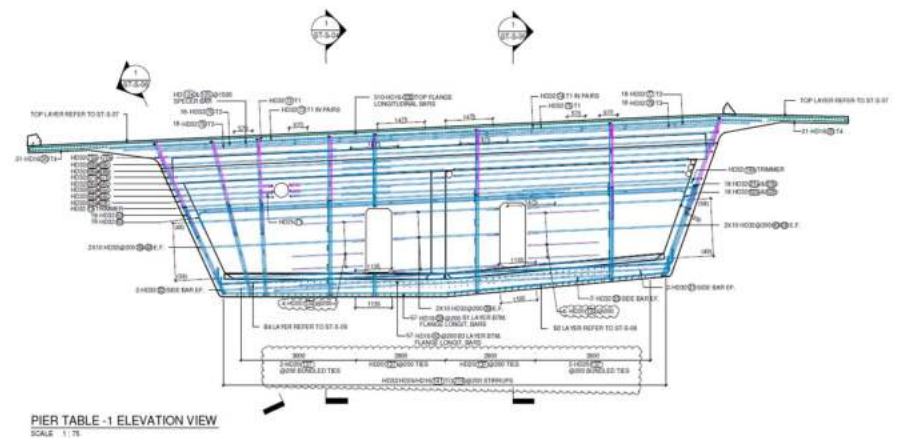
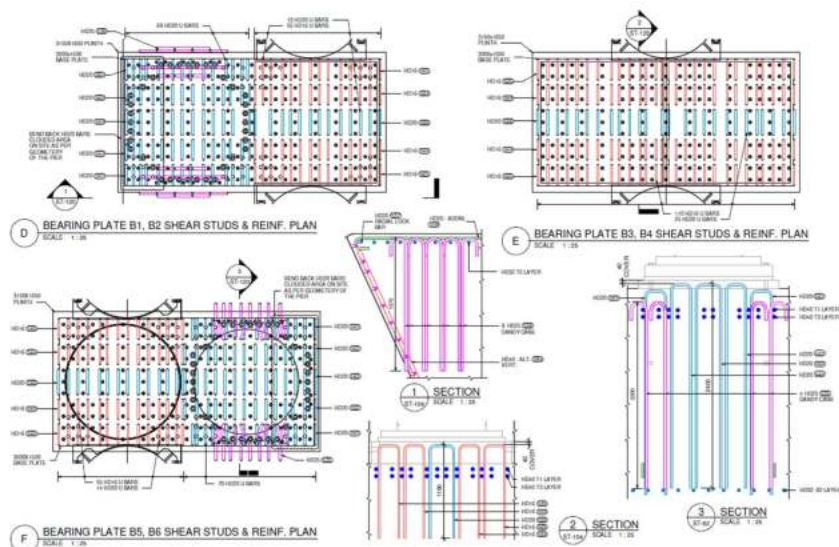
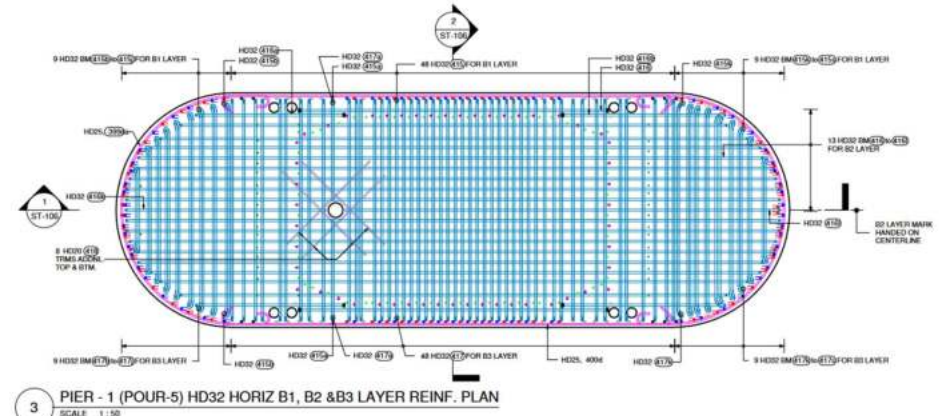
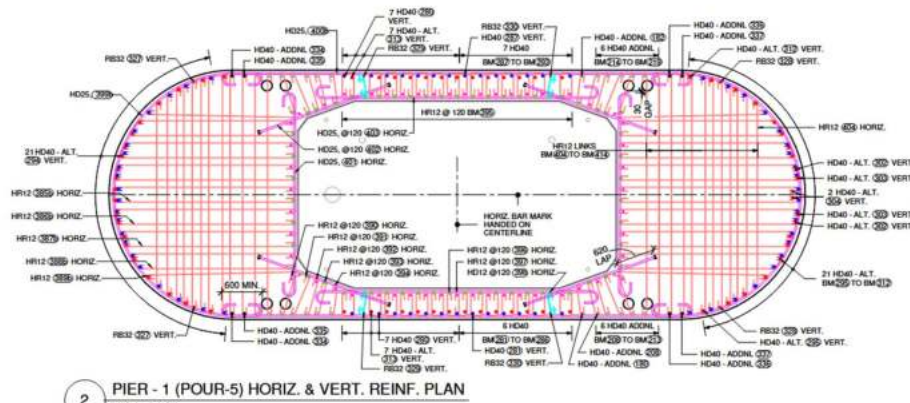
Discipline : Rebar Modelling & Detailing Services

**Project Description :** A Tauranga highway Bridge constructing over a Manawatū River. It is a 4 span balanced cantilever bridge with variable superstructure. The length of the bridge is 300m long by 26.2m wide. Silicon is closely working on rebar modelling for Superstructure which includes Piers, deck slabs, abutments on Revit 3D.



PIER - 1 (POUR-1) HORIZONTAL REINF. PLAN  
SCALE 1:50

# COMMERCIAL PROJECT





# COMMERCIAL PROJECT

## PROJECT DETAILS

Project Name : BR03 – Eco Bridge

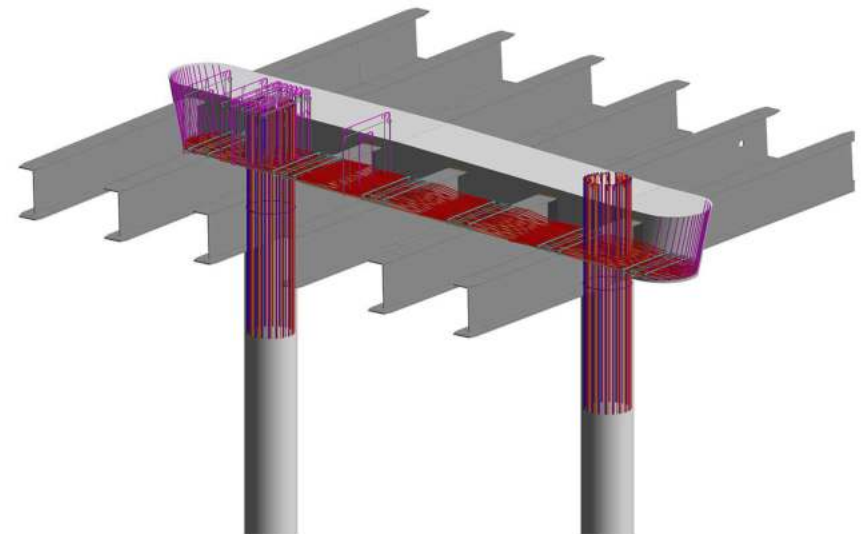
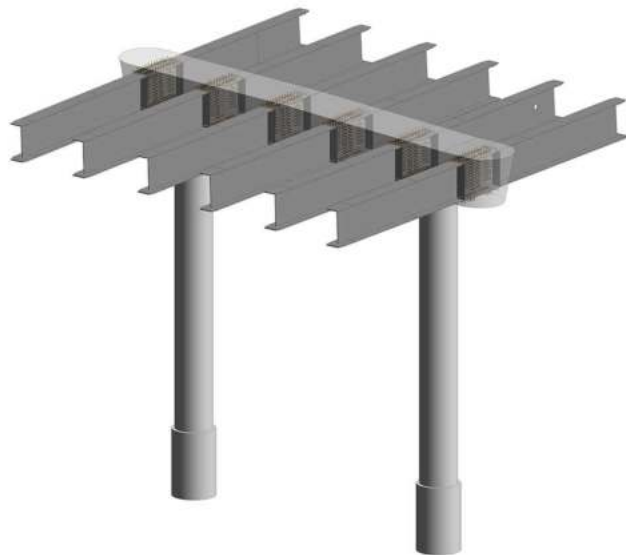
Client : Fulton Hogan

Project Location : NewZealand

Project Year :-

Discipline : Rebar Modelling Service

Project Description : The Te Ahu Turanga: Manawatu tararua highway, four lane eco bridge building on the northern side of the Manuwatu river. Silicon modelled the concrete pierhead in the Revit 3D and produced BBS, clash detection, clash resolves and co-ordination with the client.



# COMMERCIAL PROJECT

## PROJECT DETAILS

Project Name : Peacock Bridge

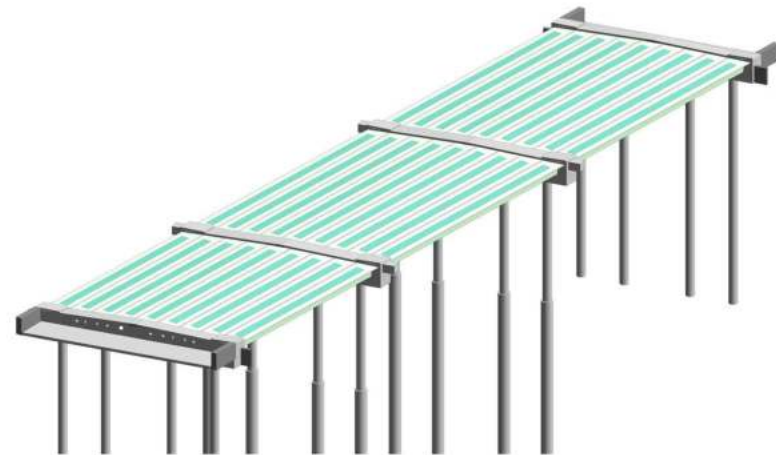
Client : Downer NZ

Project Location : New Zealand

Project Year : -

Discipline : Rebar Modelling & Detailing Services

**Project Description :** A four-lane bridge constructing over the Waikato River passes to Hamilton. The concrete bridge has a span of 95-110m. Silicon is working closely with Downer NZ, rebar modelling and producing BBS in Revit. It includes clash detections and coordination.





# COMMERCIAL PROJECT

## PROJECT DETAILS

Project Name : ROTORUA ART THEATRE - SHMPAC

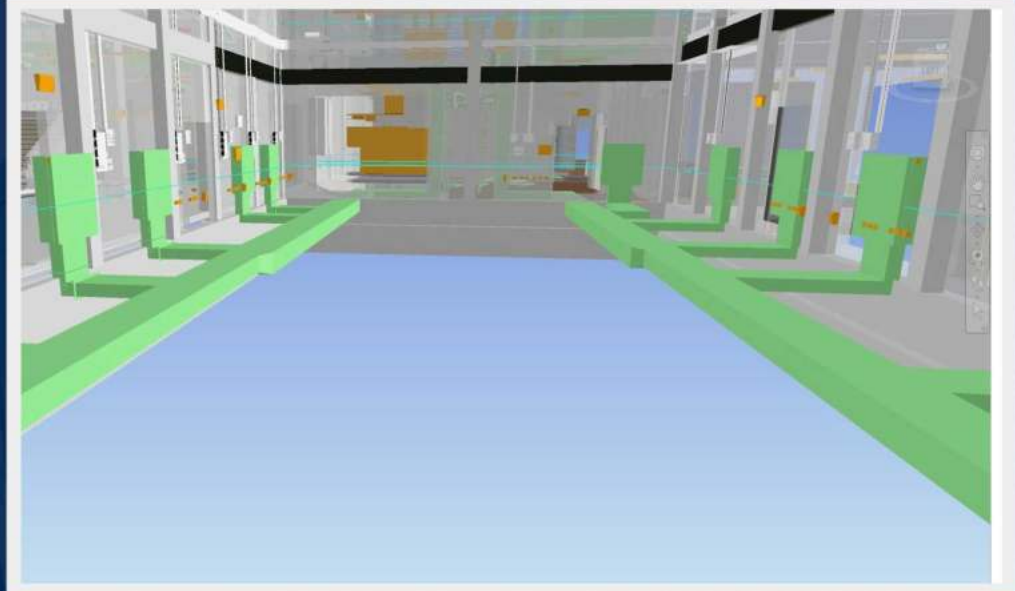
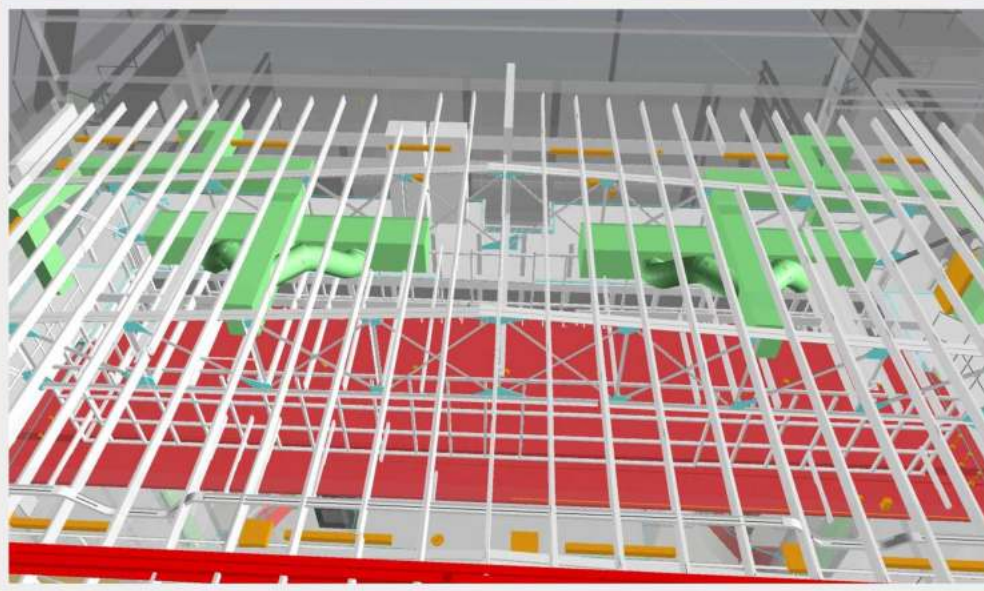
Client : Hawkins

Project Location : NewZealand

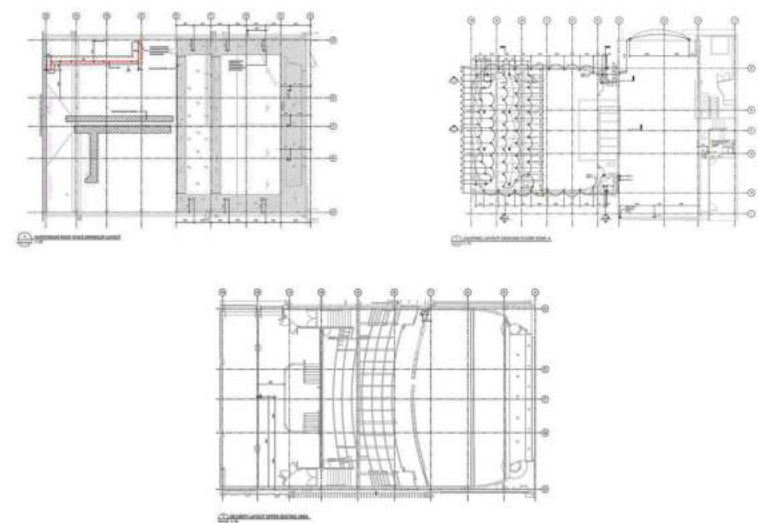
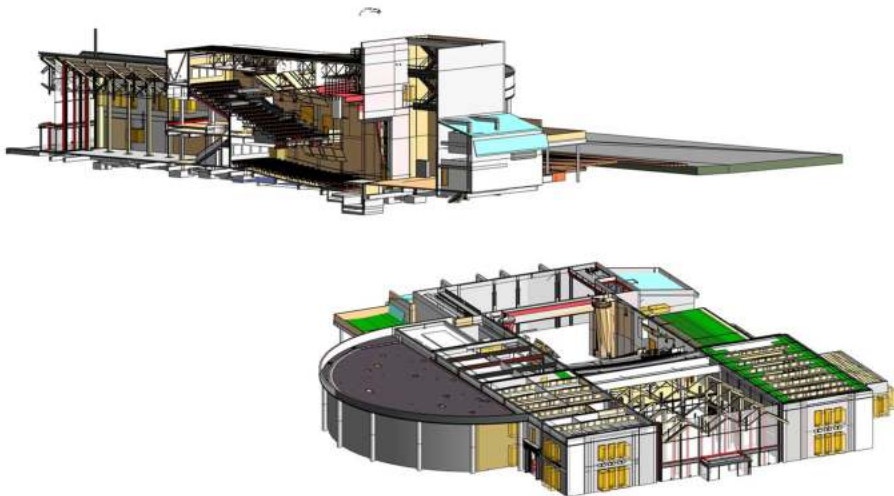
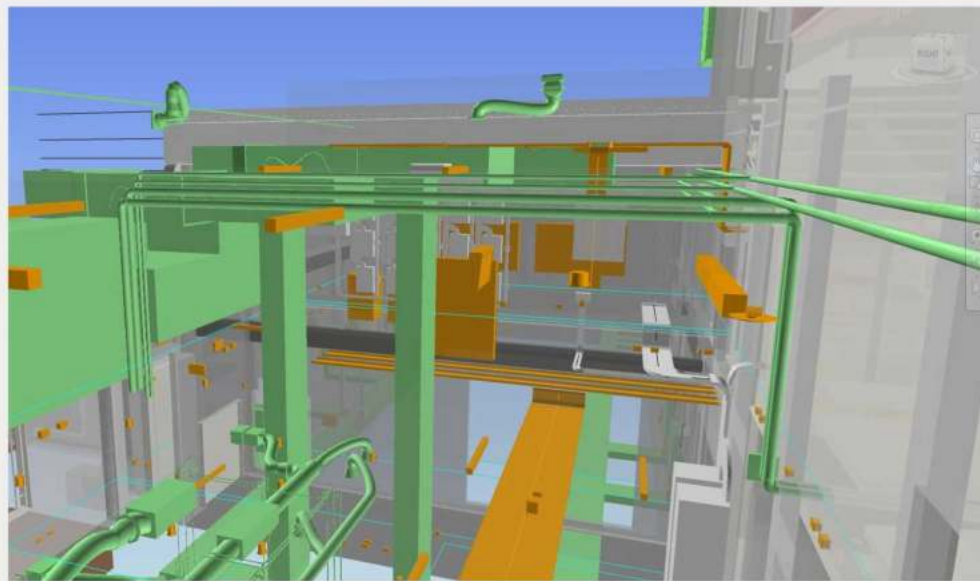
Project Year : 2021

Discipline : MEP Services

**Project Description :** The Sir Howard Morrison Performing Arts Centre is constructing at Rotorua. Silicon worked with HAWKINS, provided the MEP services in REVIT 3D for the Auditorium, concert chamber and main foyer. The services include shop drawings, co-ordination, and clash eliminations.



# COMMERCIAL PROJECT





# COMMERCIAL PROJECT

## PROJECT DETAILS

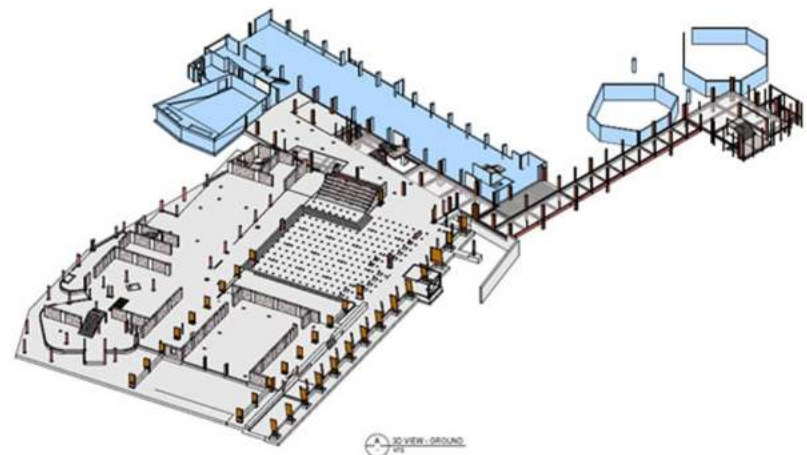
Project Name : THE UNIVERSITY OF WAIKATO

Client : -

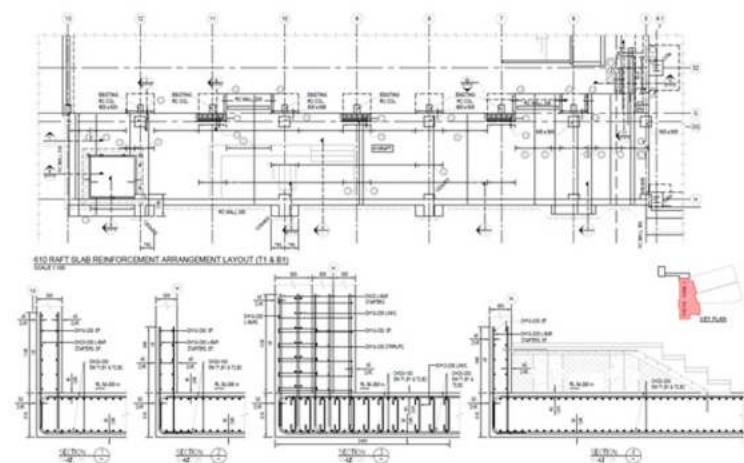
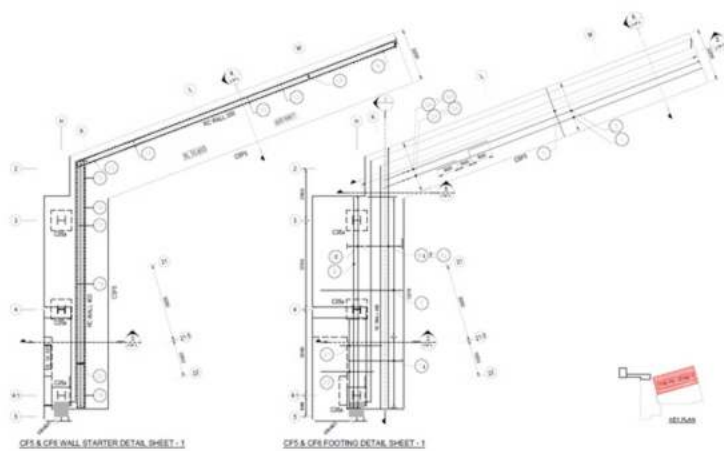
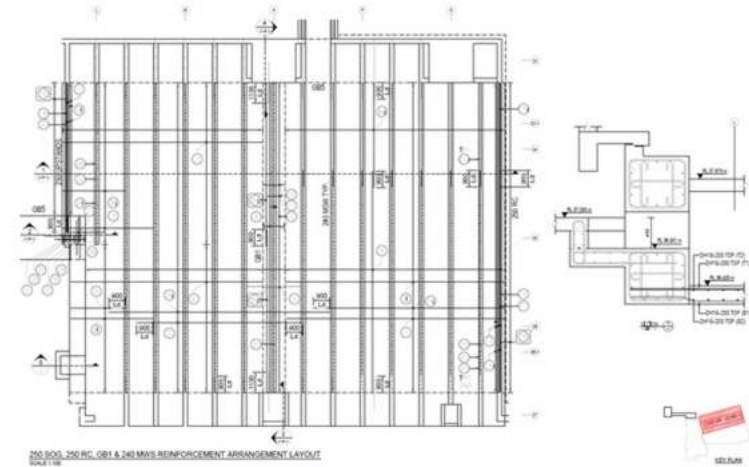
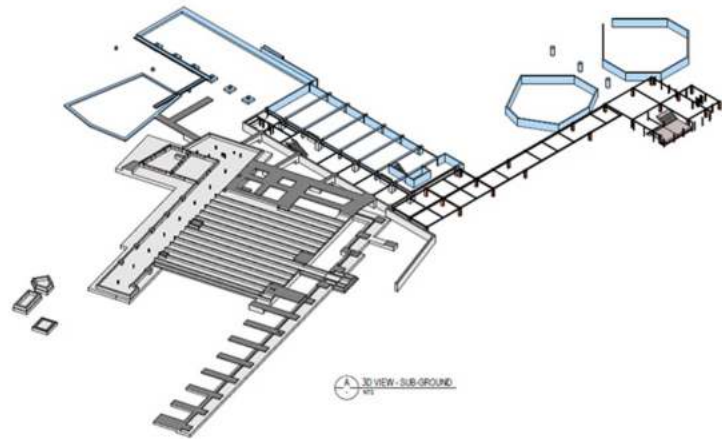
Project Location : NewZealand

Project Year : 2020

Project Description : Rebar Fabrication Services



# COMMERCIAL PROJECT





# COMMERCIAL PROJECT

## PROJECT DETAILS

Project Name : Oceania Elmwood

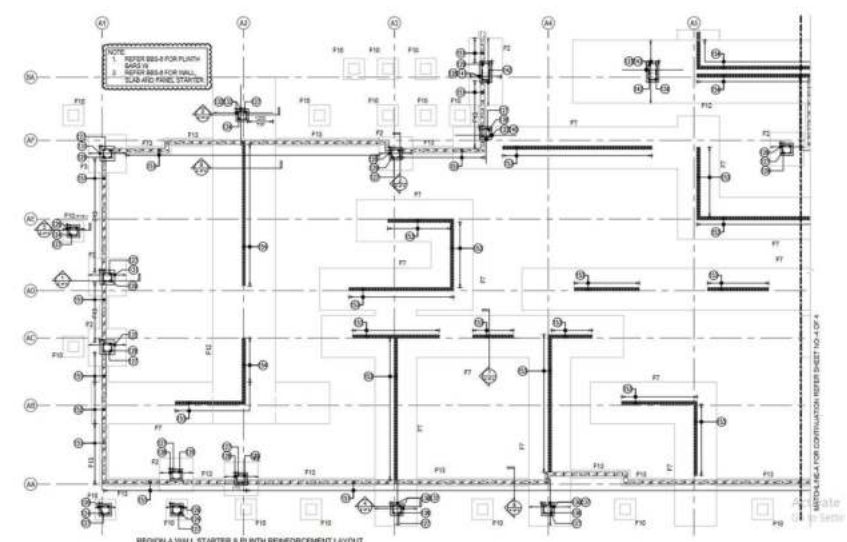
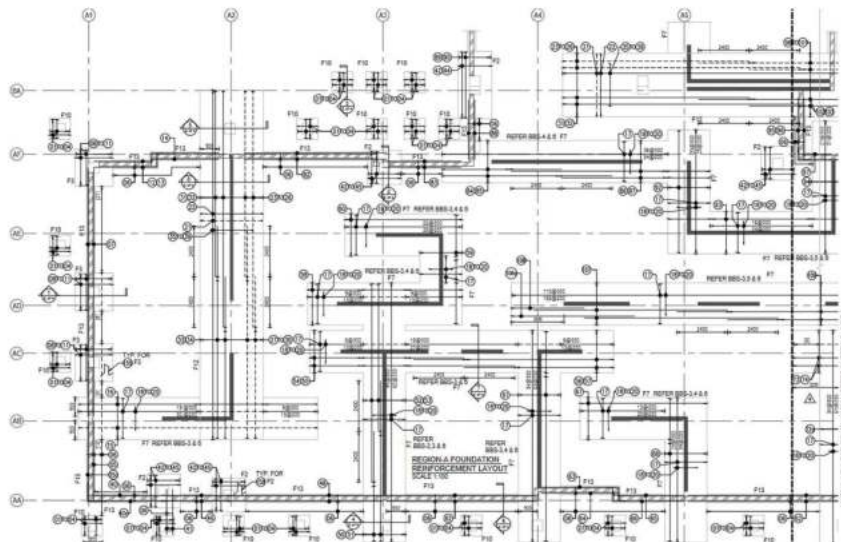
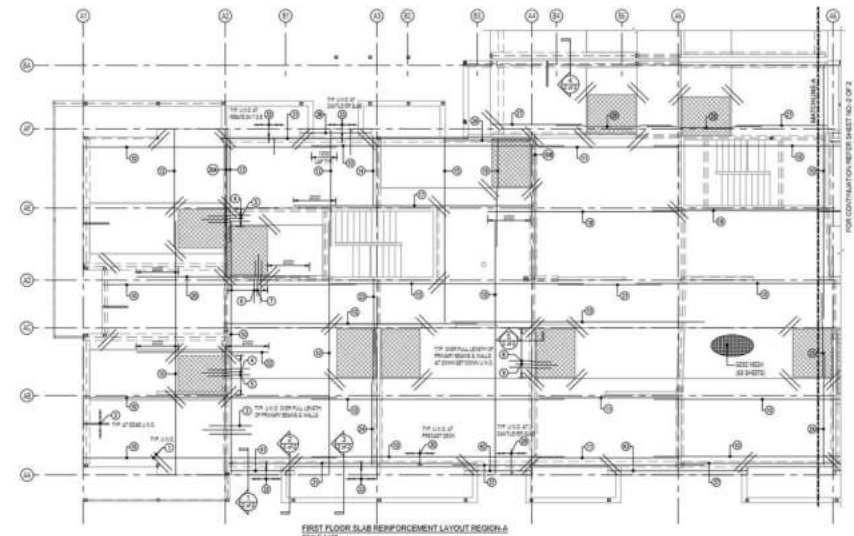
Client : Nauhria Reinforcing

Project Location : NewZealand

Project Year : -

Discipline : Rebar detailing services

**Project Description :** Oceania Elmwood is an aged care and retirement Living Village. Silicon detailed the Rebar for foundation, columns, beams and slabs, produced the BBS sheets for construction.



# COMMERCIAL PROJECT

## PROJECT DETAILS

Project Name : 787 Highbrook Riverside Warehouse

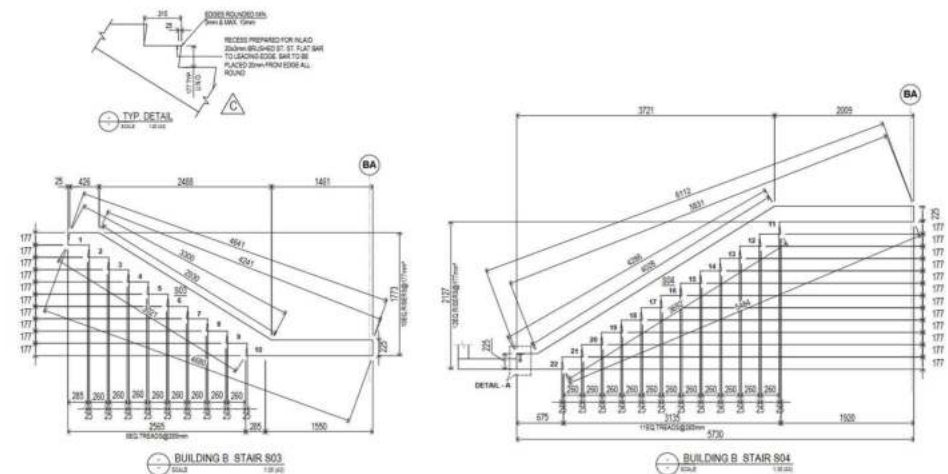
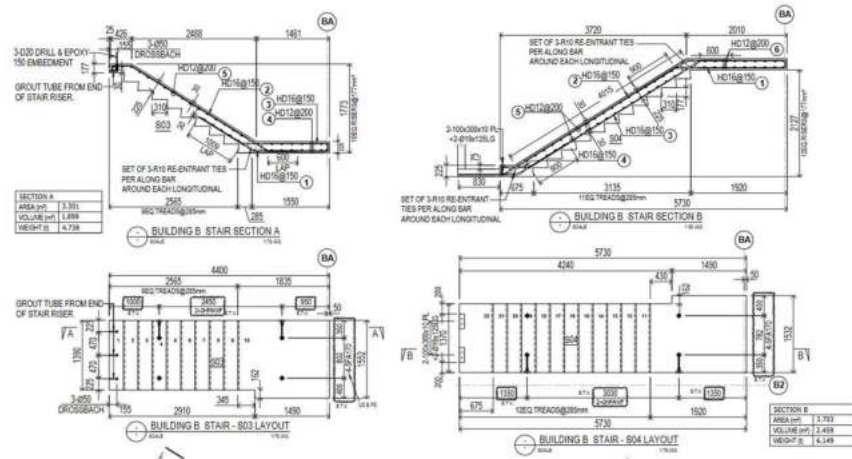
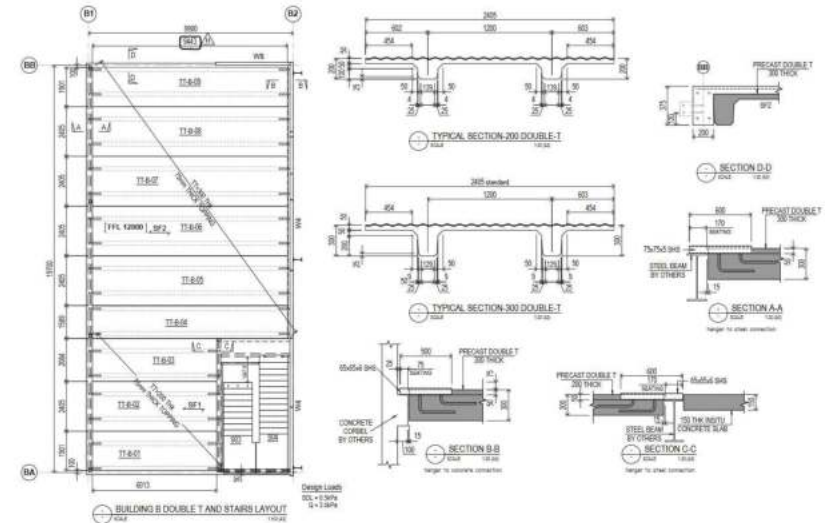
Client : Wilson Precast

Project Location : New Zealand

Project Year : 2022

Discipline : Precast Shop drawing

Project Description : 787 Highbrook Riverside is a warehouse constructed by Wilson precast. Silicon detailed the Precast stairs and provided the shop drawing for construction.







# COMMERCIAL PROJECT

## PROJECT DETAILS

Project Name : Porters Avenue Footbridge

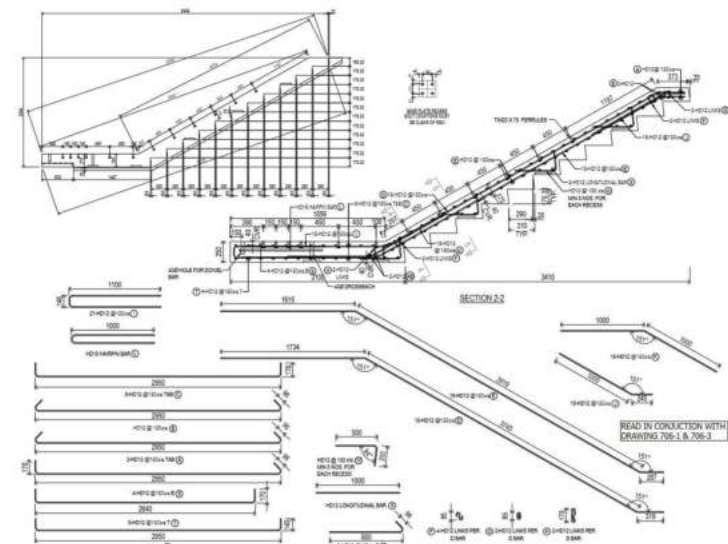
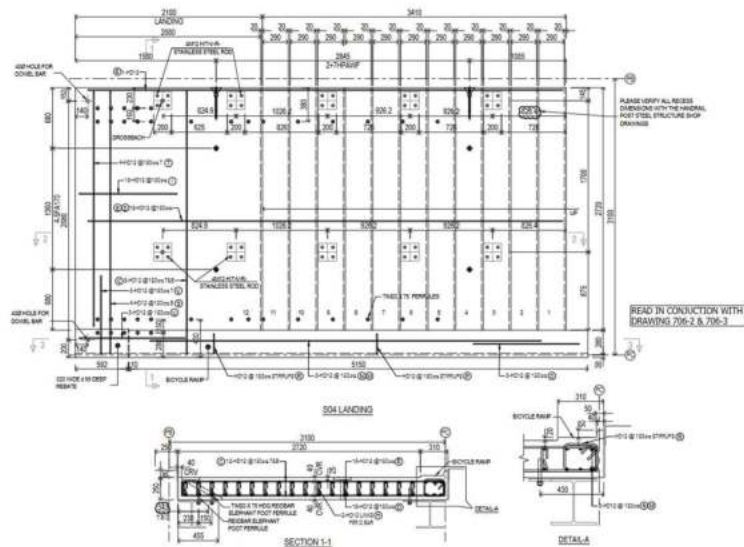
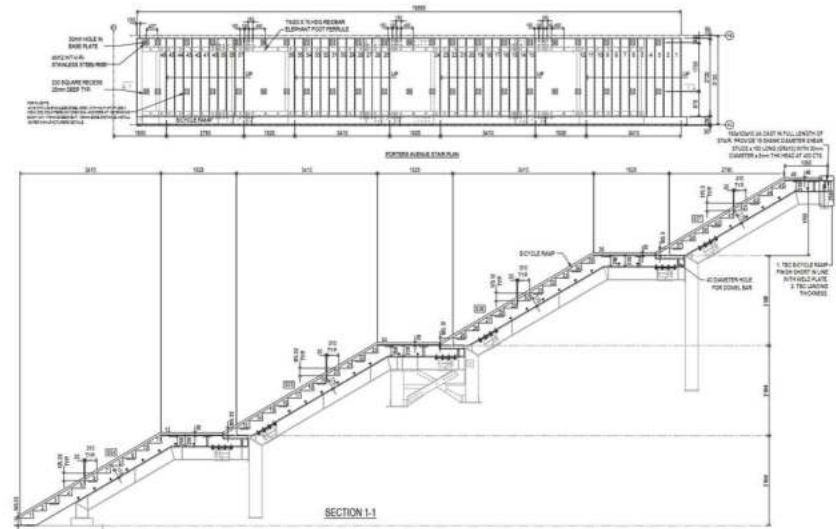
Client : Wilson Precast

Project Location : New Zealand

Project Year : 2022

Discipline : Precast Shop drawing

**Project Description :** Porter avenue footbridge is a CRL project worked alongside with Wilson precast. Silicon detailed the Precast reinforcement and provided the shop drawing for construction.





# COMMERCIAL PROJECT

## PROJECT DETAILS

Project Name : Seascape project – 85 Customs street

Client: Apex Air / CCNZL

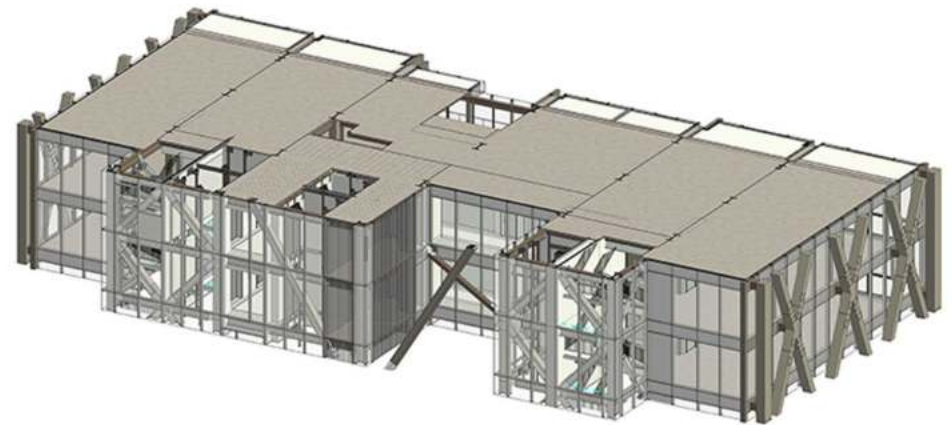
Project Location : Auckland

Project Year : 2021

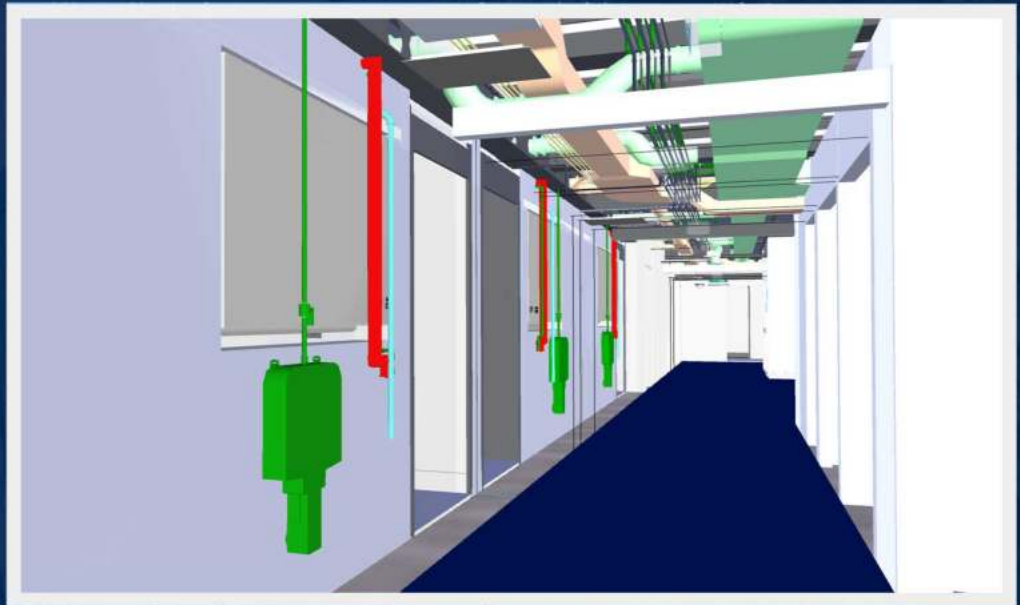
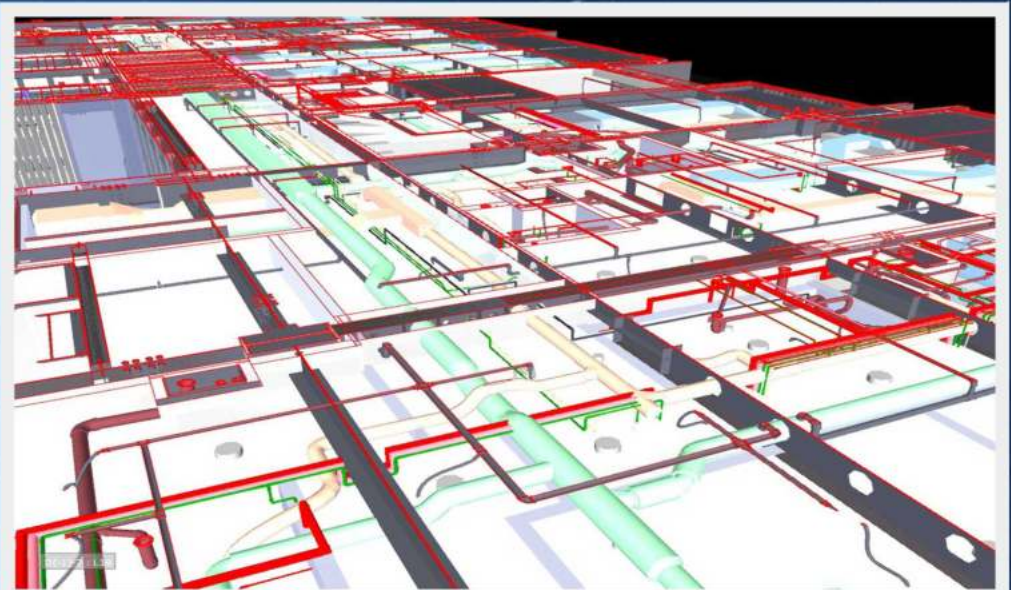
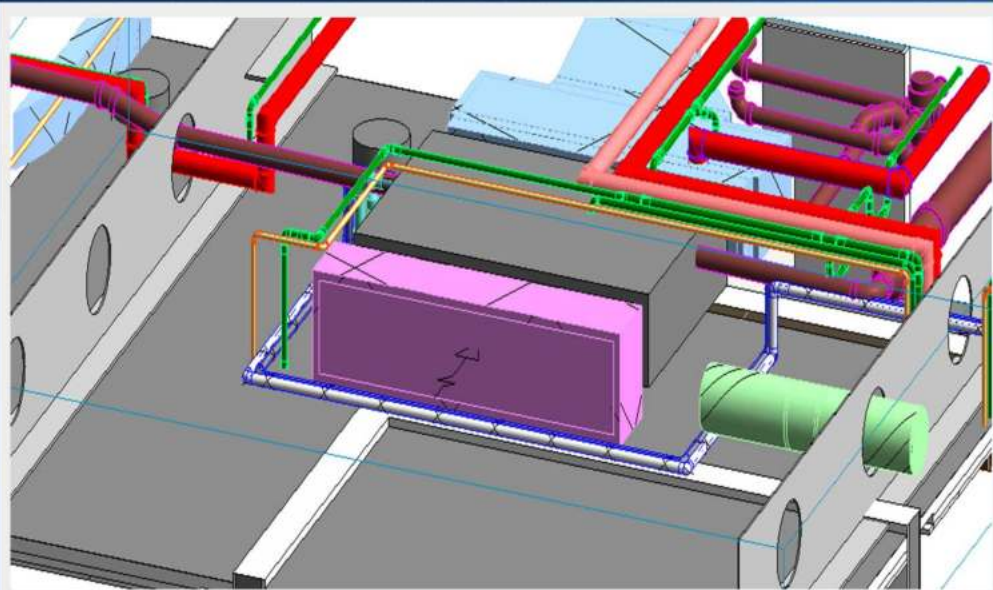
Discipline : Building Information Modelling

Project Description : Seascape is the largest residential skyscraper project, consisting of 56 floors which is building at 85 Custom streets, Auckland.

Silicon worked closely with China construction/Apex Air, modelling the MEP services, and BIM Coordination on BIM 360.



## COMMERCIAL PROJECT







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**Email:** panchal@siliconec.co.nz



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**Email:** panchal@siliconec.com.au

