



KIRANOTECH

ENGINEERING CONSULTANCY (P) LTD.

Office Address: 98, Lane No. 1-A, Jhujhaar Singh Avenue, Airport Road,
Near Surjit Hospital, Amritsar, Punjab (India)

Email: contact@kiranotech.com

www.kiranotech.com

www.Kiranotech.in

WHO WE ARE....

We are built on the foundation of the strength of our people, hard work and their devotion to our clients and communities.

We believe that “**Empowering BIM Process**” can accelerate the digital transformation in the construction industry.

Our Moto

“Unmatched Services, without Compromising on Quality”

Our Vision

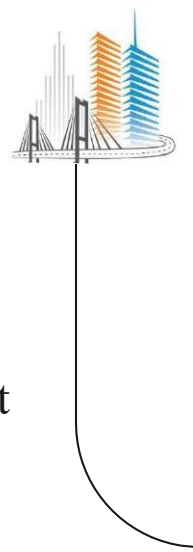
“Holistic approach in unleashing the true potential of BIM”

Our Mission

“Helping the AEC industry achieve excellence in Design, Construction & Operation through BIM”



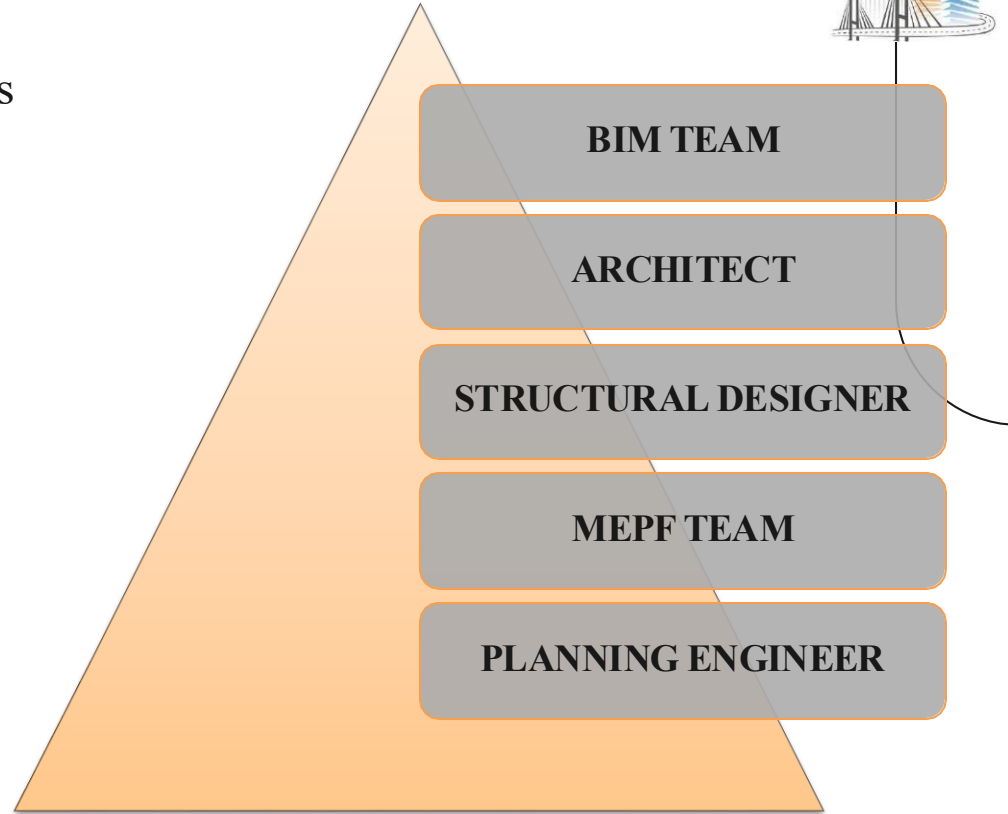
HOW WE ARE BETTER THAN OTHERS....

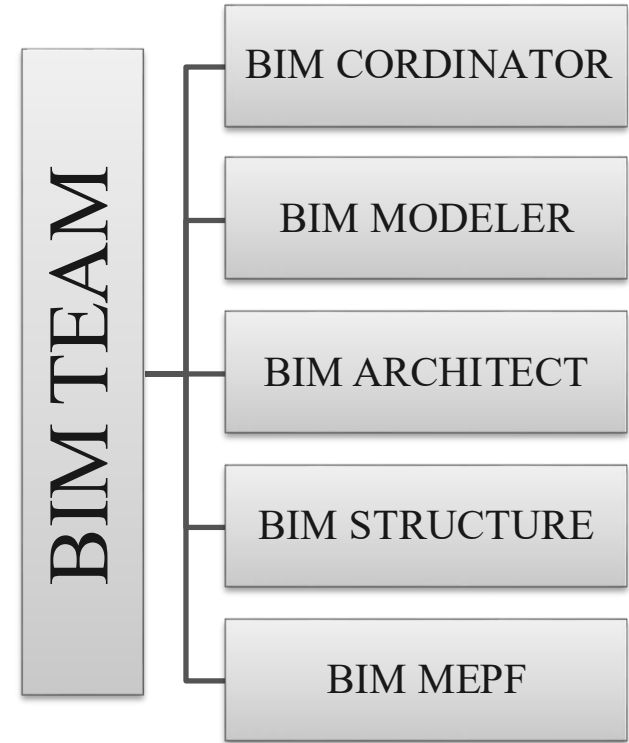
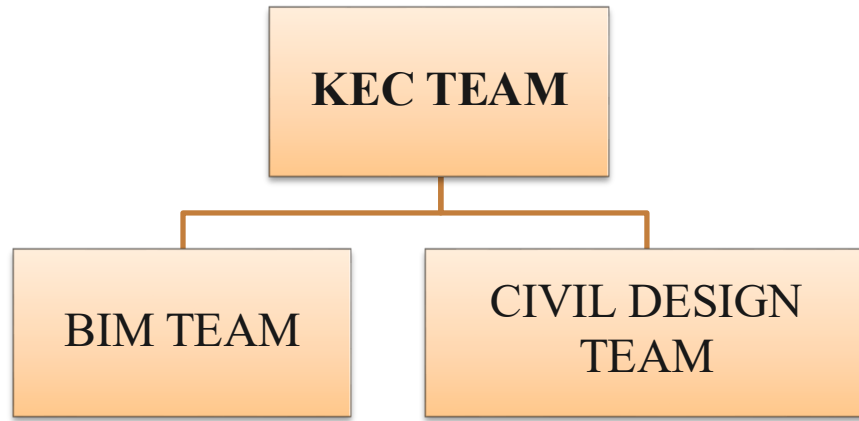


- Committed to **TIMELINES** of the Client / Project
- Very **CLEAR & HONEST** to our approach in working
- Use advanced and specialized tools for various **BIM Services** across all project stages.
- Help Clients to significantly **REDUCE** the cost of construction without compromising on quality or performance.
- Having experience in delivering consultancy service in **MIDDLE EAST**.
- In House Team of Highly **QUALIFIED EXPERTS**.

KIRANOTECH TEAM....

- We are very responsive to client needs and implement projects based on quality, reliability and cost effectiveness. The team **of KIRANOTECH ENGINEERING CONSULTANCY PVT. LTD.** comprise of well Qualified and Experienced Team.







- DPR Consultant Of The Year
- Excellence In Architectural & Engineering Design
- Appreciation Letter From Urban Mass Transit Company (UMTC)

AWARDS & APPRECIATIONS

Certificate of Appreciation

This certificate is proudly presented to
Kiranotech Engineering Consultancy Pvt. Ltd.
India

for being selected as

DPR Consultant of the Year

in the corporate (Consultancy Business) category of awards at

Rail Infra and Mobility Business Digital Awards 2020



Certificate No. RIMBDA-CA20200707029
Issue Date: 07 - 07 - 2020
Place: New Delhi, India

MAMTA SHAH
Managing Editor
Urban Transport News

Supported by
ASIS / **ASIS ICT**



CERTIFICATE OF APPRECIATION



This certificate is proudly presented to

Kiranotech Engineering Consultancy Pvt. Ltd.
Jalandhar, India

on winning the prestigious
Excellence in Architectural & Engineering Design

award in the **Corporate (EPC & Construction)** category at the

3rd Urban Infra Business Summit & Awards 2023

held on 7th December 2023 at India International Centre, New Delhi, India



Certificate No. 3UIBLA23INDC025
Issue Date: 07 - 12 - 2023
Place: New Delhi, India

MAMTA SHAH
MD & CEO
Urban Infra Group

Supported by
URBAN TRANSPORT NEWS **METRO** RAIL TODAY



Urban Mass Transit
Company Limited

To,
Shri Manish Bhutani & Shri Tarun Syal
Director & Managing Director
M/s KMM Consultants & Engineers
90, 1st Floor, Neelkanth Tower, Mahavir Marg,
Near BMC Chowk, Jalandhar - 144001

Date: 18.02.2019



APPRECIATION LETTER

Dear Sir,

We, M/s UMTC Ltd, are glad to express our appreciation for M/s KMM's Project Managers – Shri Manish Bhutani and Shri Tarun Syal including all KMM project team members for their proactive & continuous support and hard work in support of the detailed design, planning, layout, engineering, BOQ, DPR preparation, procurement, construction, full time on site support to main client and support in other day to day activities to bring the Project Namely: IMPROVEMENT AND TRAFFIC SIGNALLING WORK FOR VARIOUS JUNCTIONS IN PRAYAGRAJ (ALLAHABAD), UTTAR PRADESH, safely into execution and operation and dealing with the various issues and challenges during execution.

Accept our deep felt appreciation and regards to further ongoing cooperation between the companies, and seeking to achieve the same or even greater levels of performance for all our future projects.

With Best Regards



Hemant Chaurasia
Project Manager, Junction Improvement
Urban Mass Transit Company Limited
2nd Floor, Corporate Office Tower,
Ambience Mall Complex, Ambience Island,
NH-8, Gurgaon - 122002
Landline + 91-124-4716300 | Fax + 91-124-4716248 | Mobile + 91 8860602817
Website: www.umtc.co.in | Email id: hemant.chaurasia@umtc.in

COMPANY HIGHLIGHTS



150+

Projects

50+

Clients

10+

Countries



R&D

10.0%

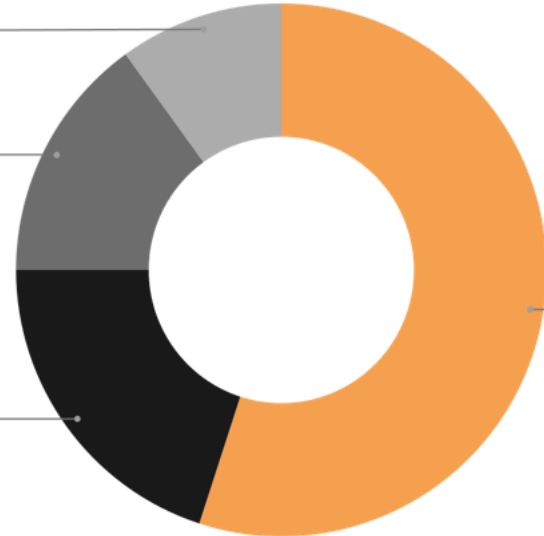
CAD

15.0%

MEPE

20.0%

Architects
Civil Engineers
55.0%



KIRANOTECH Solutions Suite

- BIM & Design Support
- Architectural Design Support
- Structural Design Support
- MEP Design Support
- Structural Steel & Concrete Detailing
- Quantity Take Off
- BIM Conversion Works
- Modelling & Rendering

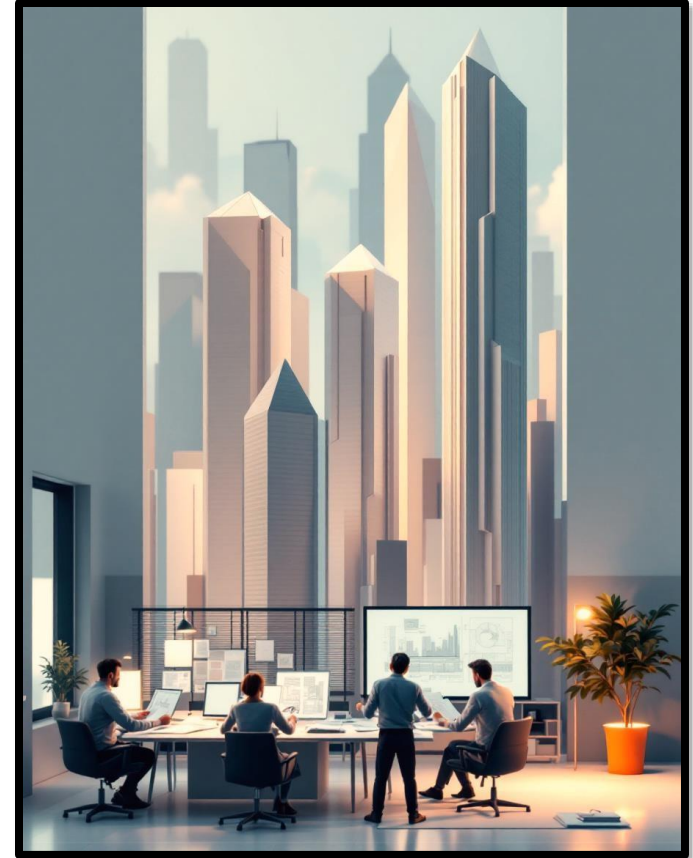


COMPREHENSIVE SERVICE PORTFOLIO



Our Services

- Construction Documentation
- Scan to BIM
- BIM Modelling (ASMEPF) and Detailing
- Clash Detection and Coordination
- Quantity Take-off / Estimation
- Constructability Analysis
- Design Model Review and Audits
- 3d Laser Scanning for AS Built and BIM
- Structural Services
- 3d Renderings and Walkthroughs
- Manpower Outsourcing



OUR SERVICES

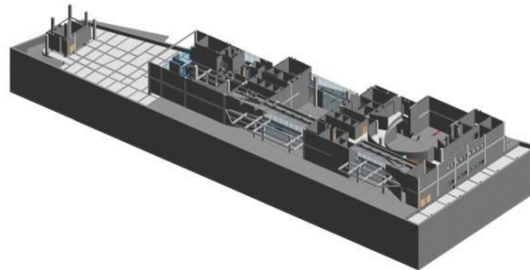
Architectural BIM Services

- **Schematic Design Phase**
Building 3D Renders – Visualization
- **Design Development Phase**
Floor Plan Elevation
BOQs and Time scheduling
- **Construction Documentation phase**
Sections
Detail Drawings
Construction Details



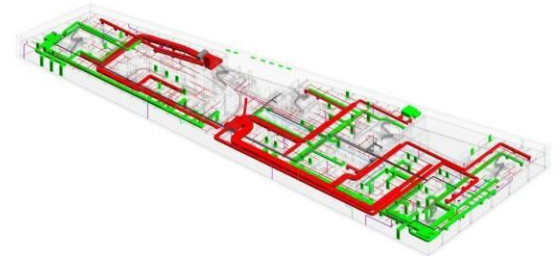
Structural BIM Services

- Detailed Construction Drawing.
- 3D Model for Structural and Architectural Element
- Shop Drawings for Beams, Joists, Columns, Stairs, Lintels, Roof, Frames, Shelf Angles, Bearing Plates, Frames, Wall Partition, Supports and Bracings.
- Quantity Takeoffs and Cost Estimation.
- Sequencing and Scheduling for Construction Management.



MEP BIM Services

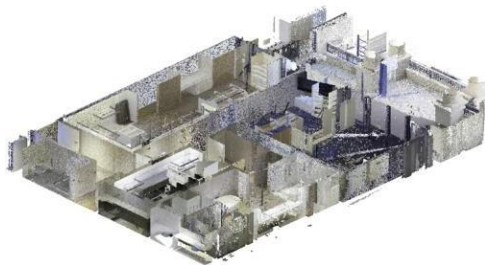
- 2D Drawings to 3D Model Creation
- MEP Shop Drawing
- 2D Drafting & Detailing
- MEP Fabrication Drawing
- MEP Construction Drawing
- MEP Coordination Service
- As Built Drawing
- Spool Drawings



OUR SERVICES

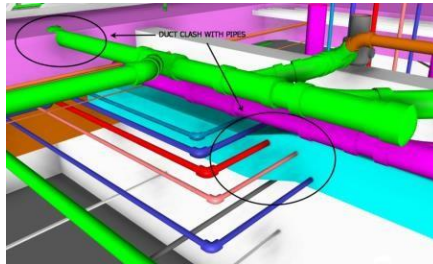
Scan-to-BIM Services

- Designers, Constructors and Owners want the point - cloud data from these laser scanners Converted to Revit models.
- Depending on the project and the use of BIM on the project, we optimize the level of detail in which the point cloud information is converted to Revit.
- A step further & we also convert them into BIM 4D, 5D, 6D and 7D models.



BIM Coordination

- Coordination of the MEP/HVAC element.
- Coordination between Structural & Architectural element
- Coordination of Structural elements with Facade elements.
- Coordination between multiple disciplines such as architecture, structural, MEPF and more that help AEC firms keep their teams on the same page.

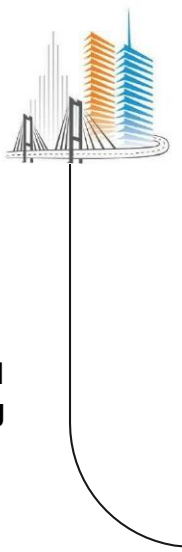


Documentation

Drafting services to Architects, Engineers, Contractors and Engineers.

We aim at providing End-to-End solutions using a design thinking approach.

- Design Documentation
- Document Conversion
- CAD Conversion
- Landscape Drawing
- Millwork Shop Drawings

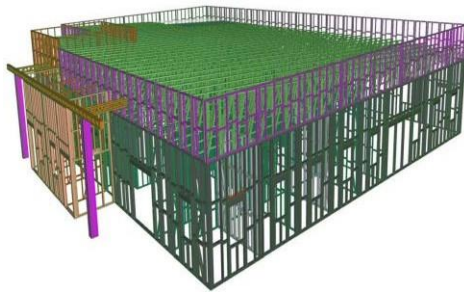


ENGAGEMENT MODEL



Hourly Model

- Progressive models delivered as required on a pre-approved flat hourly rate.
- Monthly invoicing based on actual hours utilized.



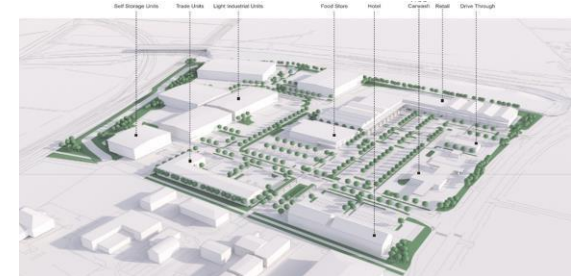
Studio Model

- A dedicated team of Project Lead & BIM specialists.
- The team works as an extension of the client organization with direct communication and file sharing.



Project-Based

- Total upfront project pricing based on the deliverables & the scope of work.
- Progressive billing per month.





Manpower Outsourcing Solutions



Who We Are

We specialize in delivering skilled professionals for the architecture and engineering industries, providing tailored manpower outsourcing services to architecture firms, contractors, developers, and consultants.

How We Add Value

- ✓ On-site or Remote Deployment
- ✓ Support Across All Project Stages – from Design Development to Execution
- ✓ Scalable Solutions to Meet Project Demands
- ✓ Fast Turnaround & Resource Replacement

Our Expert Talent Pool

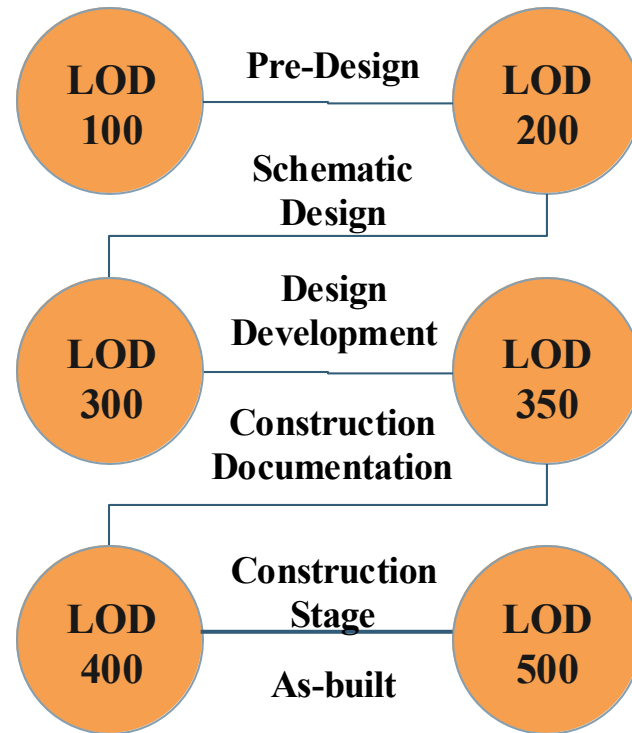
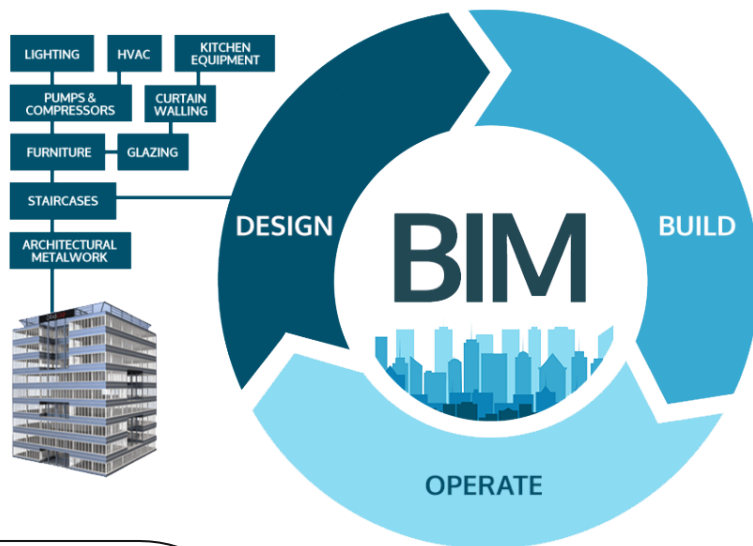
-  BIM Resources
-  Draftsmen & CAD Operators
-  Architectural & Civil Engineers
-  MEP Engineers
-  Site Supervisors
-  Experienced Architects

Why Choose Us

- ✓ Pre-screened & Qualified Talent
- ✓ Architecture & Engineering Industry
- ✓ Project-Aligned Resourcing
- ✓ Cost-Effective & Compliant

OUR WORK PROCESS

We approach every new project as a partnership to create a lasting impact on our clients' and communities. Our experts deploy industries' best practices in each project to optimize building systems, resolve clashes, mitigate risks and enhance collaboration. Our process orientation and quality control are per ISO standards.



Level Of Development (LOD)



SECTOR SPECIALIZATIONS

- Residential Towers
- Commercial Buildings
- Railways & Airport
- Health Sector
- Institutional Buildings





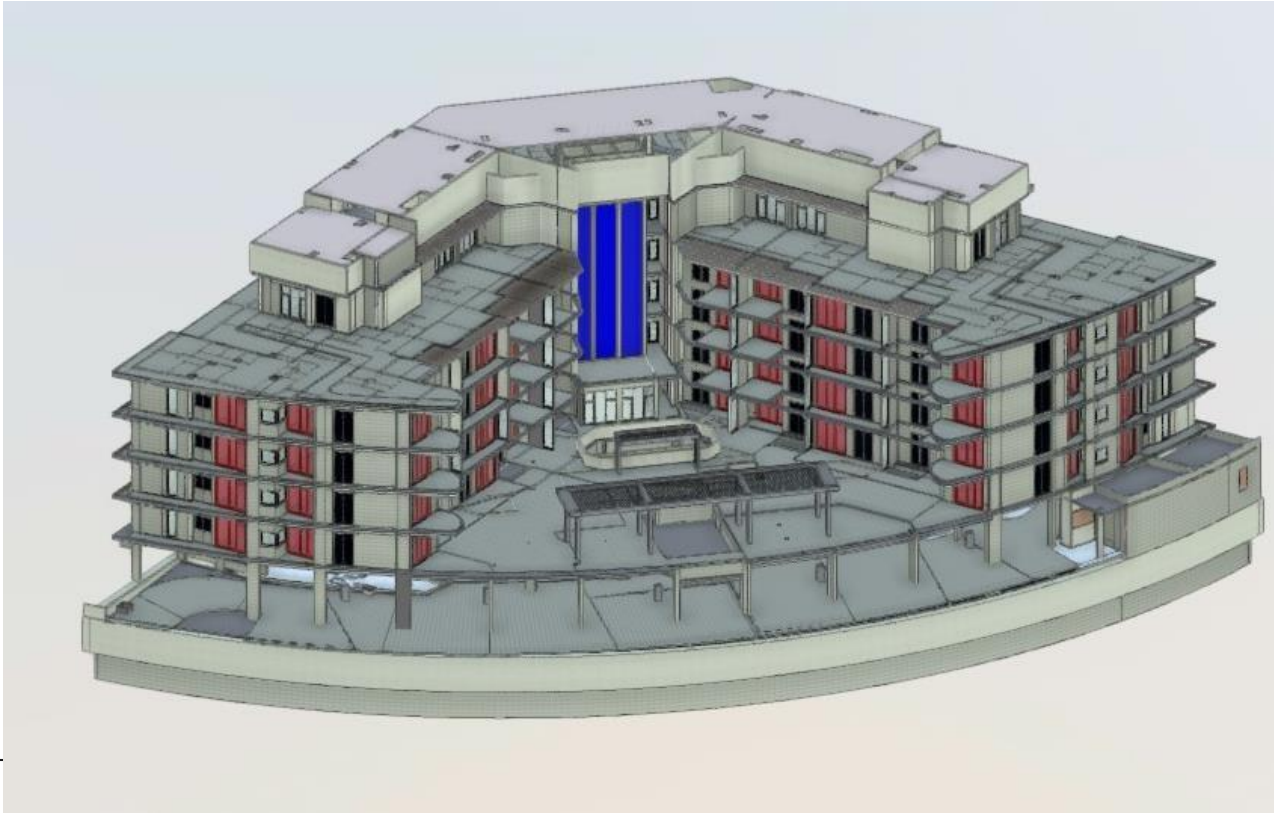
PROJECTS COMPLETED IN MIDDLE EAST & OTHER COUNTRIES

MAJOR PROJECTS

- [Al Rayyan Corporate Office, Qatar](#)
- [Warehouse Building - Knb B10k Fire](#)
Protection Installation Project, Kuwait
- Warehouse Building – Bldg 5723 Hvac
Installation Project, Kuwait
- Vehicle Maintenance Building, Kuwait
- AL barsha multi storey residential
project
- M60 Villa at Palm Jumeirah, Dubai



AL Barsha RESIDENTIAL PROJECT

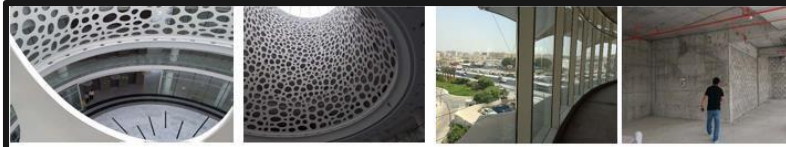


- Architectural and
- Structural services
- Construction and Documentation
- BIM Modelling and Detailing
- Clash Detection and Coordination
- Quantity Take-off / Estimation
- Design Model Review and Audits

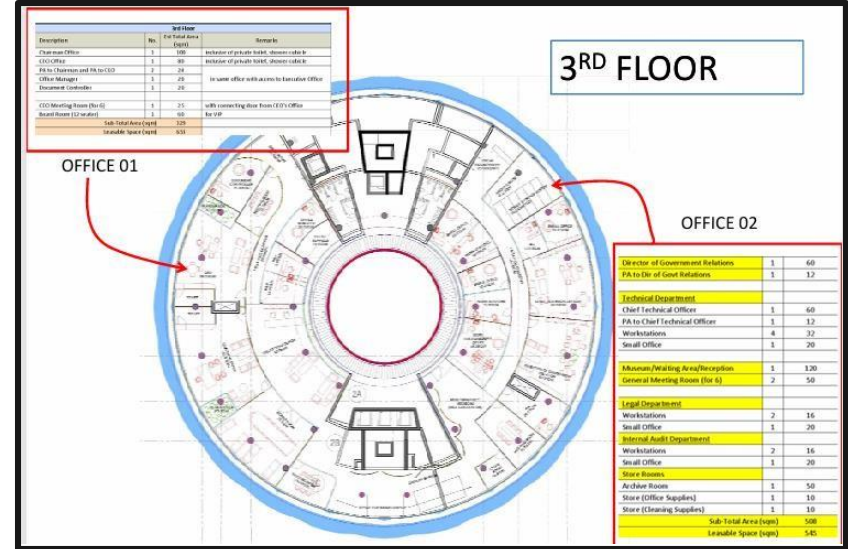


✓ M60 Villa

• AI RAYYAN CORPORATE OFFICE, QATAR



ID WORK AL RAYYAN CORPORATE OFFICE DOHA, QATAR



CHAIRMAN CHAMBER

RECEPTION AREA

CEO OFFICE

BOARD ROOMS

MEETING ROOMS

OFFICE MANAGER



• AI RAYYAN CORPORATE OFFICE, QATAR



CHAIRMAN CHAMBER

- Optra Wall Panel with Straw Gold Fabric.
- Wood work in Ceiling with Pattern in Ceiling tiles (US Maple) standard perforations.
- Mecho Shades- Automated Shade fitted above ceiling.
- Wooden Flooring Laminates Dark Walnut.
- Wall Lighting & Ceiling Lighting- Philips.
- Herman Miller High Back Executive.

- Wood Work in Optra Wall Panels.
- Wooden Cladding planks for Columns
- Wood work in Ceiling with Pattern + Wood Work in Ceiling tiles (US Maple)
- Mecho Shades- Automated Shade above ceiling.
- Large Wooden Desk & High Back Leather Chair



CEO OFFICE



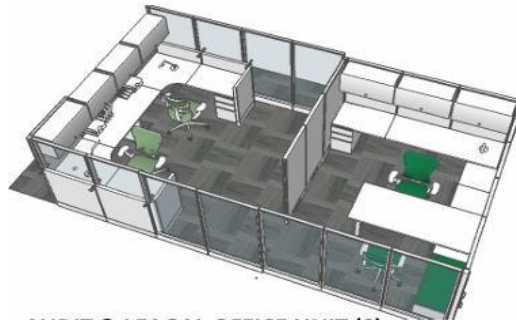
BOARD ROOM

- Wood Work in Optra Wall Panels- Dark Cherry.
- Wooden Cladding planks for Columns to design.
- Wood work in Ceiling with Dark Cherry + Wood Work in Ceiling tiles (US Maple)- Standard Perforations.
- Mecho Shades- Automated Shade above ceiling.
- Herman Miller - Executive Chair- White.
- Carpet to Design

- Wood Work in Optra Wall Panels- Dark Cherry.
- Wooden Cladding planks for Columns to design.
- Wood work in Ceiling with Maple + Wood Work in Ceiling tiles (US Maple)- Standard Perforations.
- Mecho Shades- Automated Shade above ceiling.
- Herman Miller - Eames Soft Pad Executive Chair- White.
- Armstrong Wooden Laminate Flooring- Ruby Cherry+ Entry



CEO MEETING ROOM



AUDIT & LEAGAL OFFICE UNIT (S)

3RD FLOOR OFFICE 02

- Framed Glass Partition.
- Optra Wall Panel with Beige Fabric.
- Wood work in Ceiling (Us Maple) standard perforations.
- Carpet to design.
- Standard Ceiling Inserted Lamps (Round).
- Glass Door.
- Glass Stickered to design.
- Herman Miller- Hevan Hive 001 with Mirra Chairs



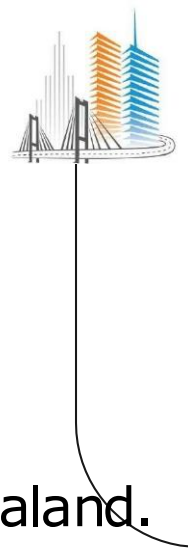


MEETING ROOMS & CEO ROOMS INTERIOR VIEWS





- ✓ Auditorium Project – 500 Seater.
- ✓ Govinda International School,
Danapur, Patna.



MAJOR PROJECTS

- Melekeok Residential Subdivision, Republic of Palau
- Residential Housing Project, Ivory Coast
- Guide Hill Station, Visitor Accommodation Unit, Tekapo, New Zealand.
- Gas Station Project, Canada.
- Screw Pile Design & Detailing Project, Canada.
- 6d Modelling Of Residential Project, Atlanta, USA.
- Landscaping Project, California, USA.

- **MELEKEOK RESIDENTIAL SUBDIVISION, REPUBLIC OF PALAU**



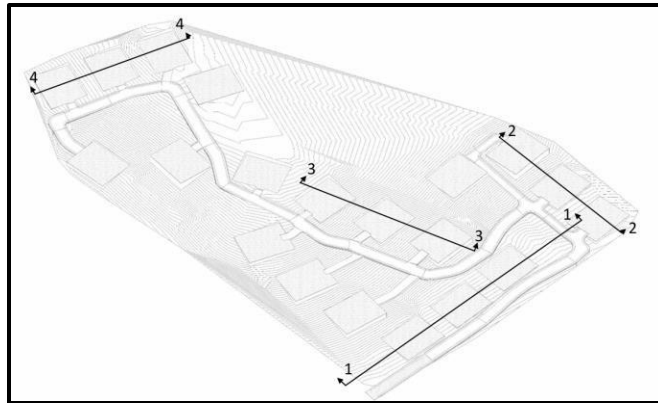
- **PHASE I**
- **25 LOTS**
- **EACH LOT – 1000 SQM**



• MELEKEOK RESIDENTIAL SUBDIVISION, REPUBLIC OF PALAU



• PROPOSED RESIDENTIAL PROJECT, IVORY COAST



- ✓ **APARTMENT BLOCKS 24m HEIGHT**
- ✓ **DISTANCE BETWEEN BLOCKS – 12m**
- ✓ **10m WIDE ROADS**
- ✓ **STANDALONE UTILITIES**



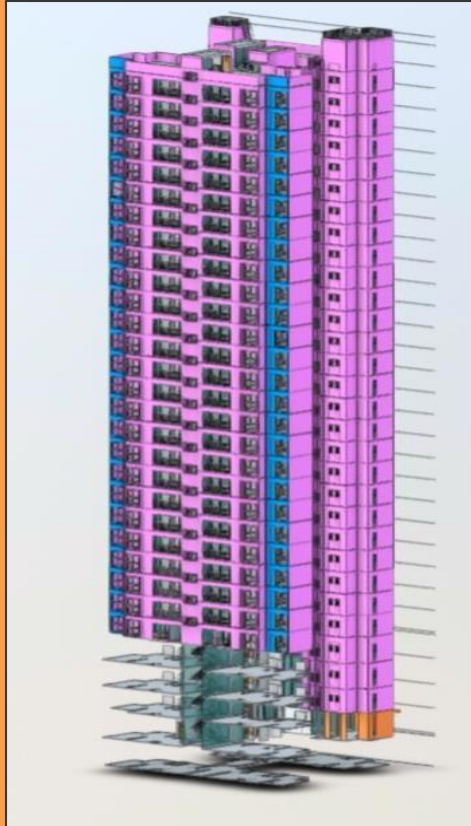
- **PROPOSED RESIDENTIAL PROJECT, IVORY COAST**



Multi-storey Residential building



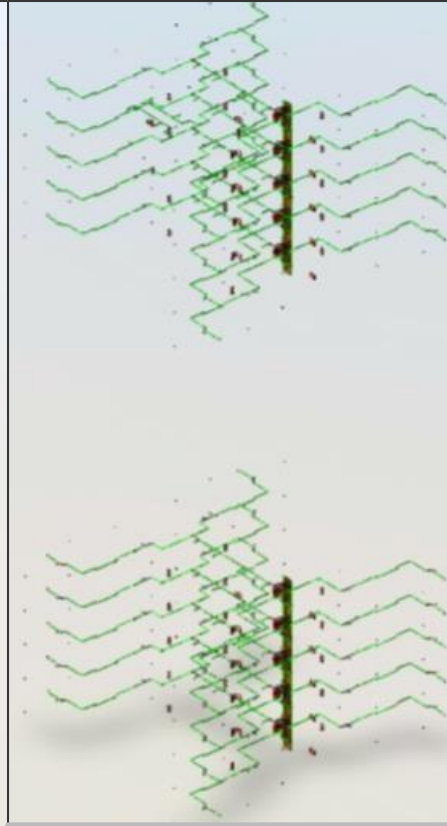
Project : Multi Storey Residential Building



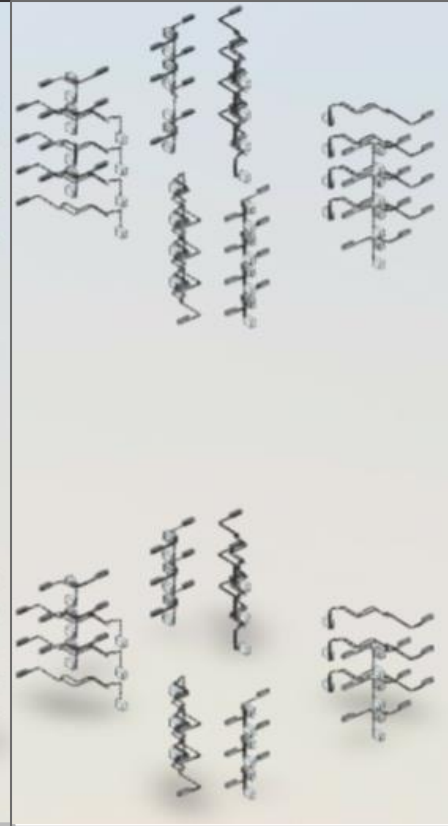
Architectural Model



Structural Model



Fire fighting

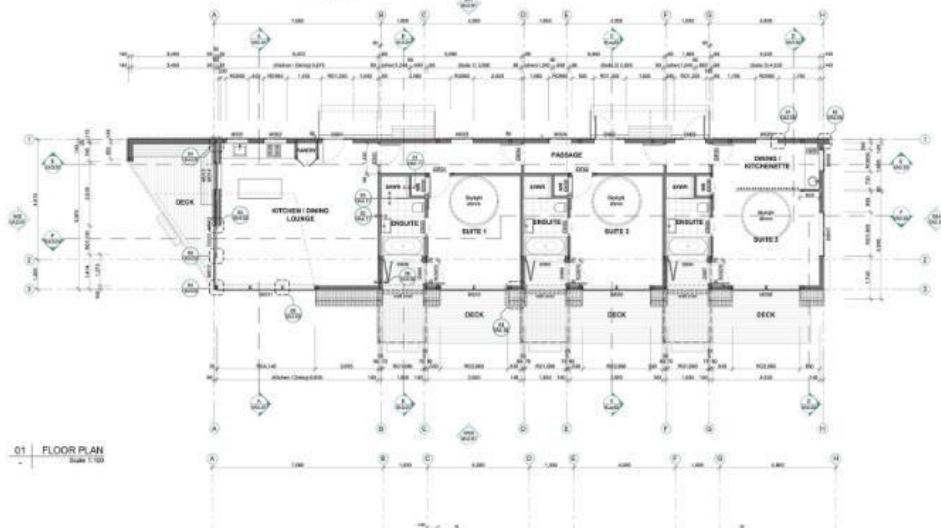
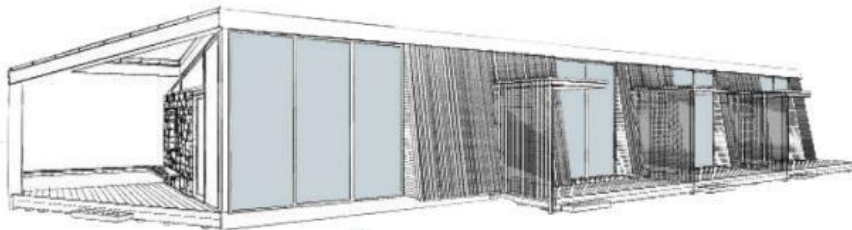


HVAC services

VISITORS ACCOMMODATION UNITS

Role:- 3D Model and CD Set

Software:- Autodesk Revit & Enscape



SITE INFORMATION	
Parcel ID: 3457845	Site Area: approx. 36,694.95(Sq)
Legal Description: Part RS 33297	Building Footprint: 170.07(Sq)
Address: 1911 Broecker Road, Tokyo	VAU 2 - 170.07(Sq)
Earthquake Zone: Zone 3	VAU 3 - 170.07(Sq)
Exposure Zone: Zone B	VAU 4 - 170.07(Sq)
Climate Zone: Zone 3	VAU 5 - 170.07(Sq)
Wind Region: A	VAU 6 - 170.07(Sq)
Rainfall Intensity (range): 30 - 40	VAU 7 - 170.07(Sq)
Wind Zone: Extra High	VAU 8 - 170.07(Sq)
Zone: Rural	
Floor Area (incl ext walls):	151.40(Sq)
Deck Areas (total):	67.97(Sq)



WALL MOUNTING	CEILING MOUNTING	POLE MOUNTING
 Use 2x4 bracket Use 2x4 joists Use 2x4 post (optional) Use 2x4 post (optional) Use 2x4 post (optional) Use 2x4 post (optional)	 Use 2x4 bracket Use 2x4 joists Use 2x4 post (optional) Use 2x4 post (optional) Use 2x4 post (optional) Use 2x4 post (optional)	 Use 2x4 bracket Use 2x4 joists Use 2x4 post (optional) Use 2x4 post (optional) Use 2x4 post (optional) Use 2x4 post (optional)

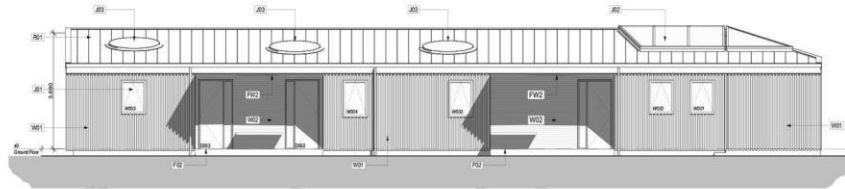


GUIDE HILL STATION

VISITORS ACCOMMODATION UNITS

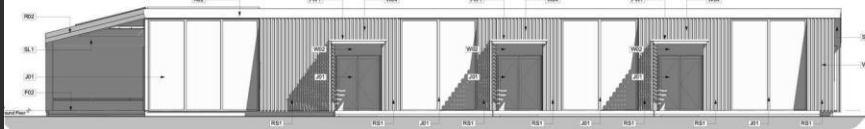
04 ROOF FRAMING PLAN

Scale 1:100



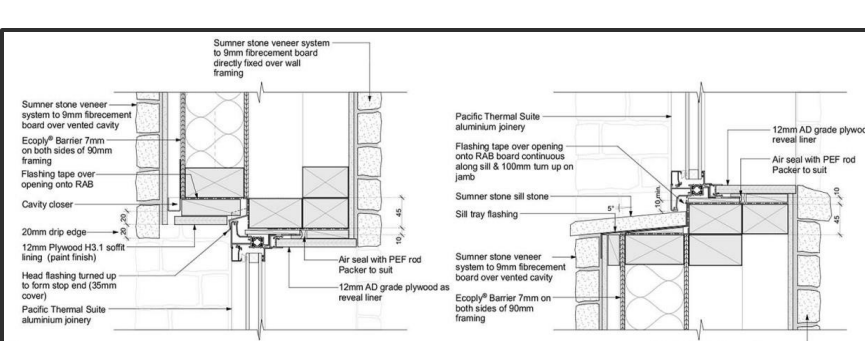
01 EAST ELEVATION

Scale 1:100



03 WEST ELEVATION

Scale 1:100



ing

02 LOWER WINDOW HEAD - STONE VENEER

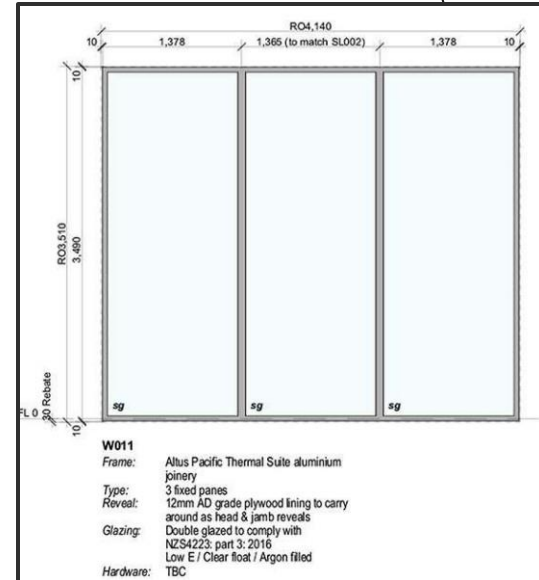
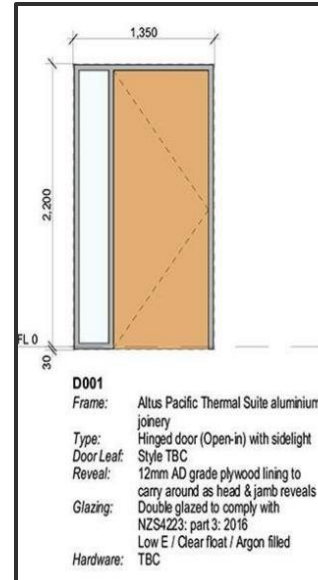
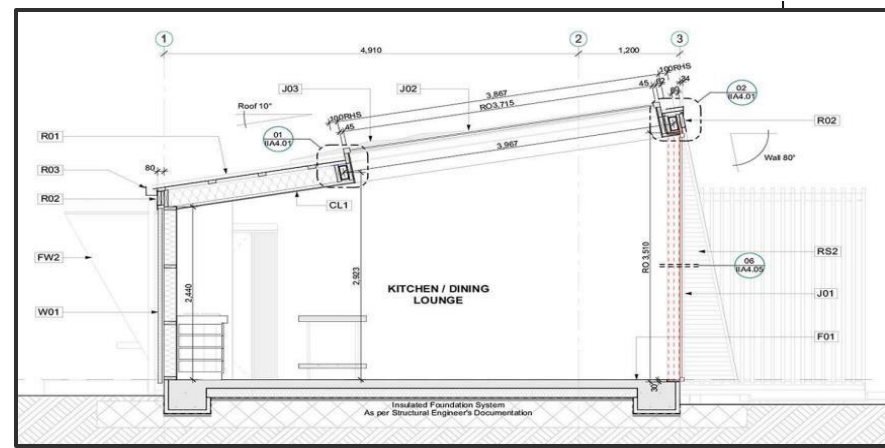
Scale 1:5

01/IA3.03

04 LOWER WINDOW SILL - STONE VENEER

Scale 1:5

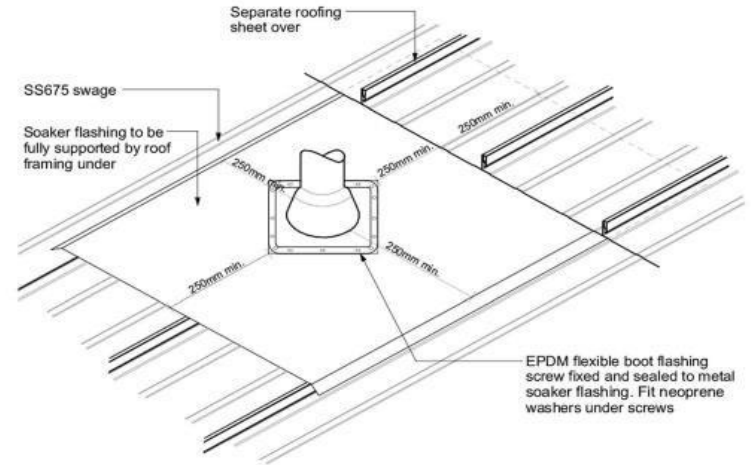
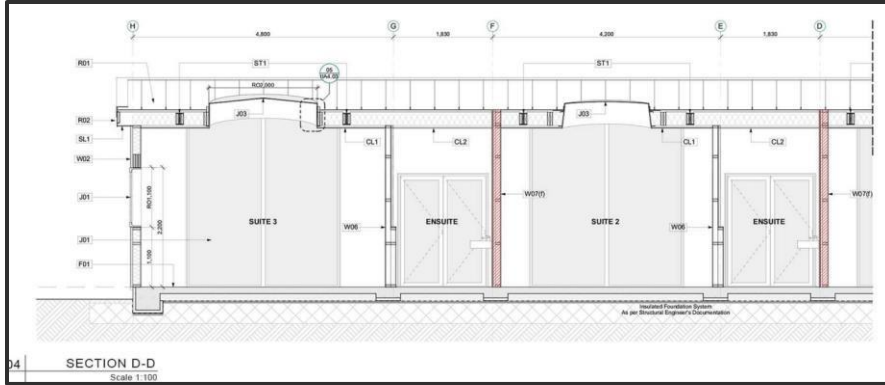
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GUIDE HILL STATION

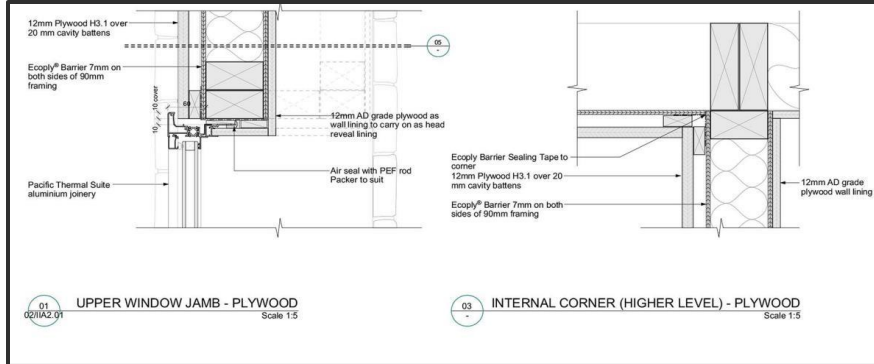
VISITORS ACCOMMODATION UNITS

1791 Braemar Road, Tekapo New Zealand



NOTE:
(1) Suitable for pipes from 86mm to 500mm diameter
(2) Suitable only for roof pitches of 10deg or more

06
01/IA1.03



ENERGY ANALYSIS PROJECT IN USA



	Instant Sensible [Btu/hr]	Delayed Sensible [Btu/hr]	Latent [Btu/hr]	Total [Btu/hr]	Percent of Total [%]
Envelope					
Roof	-	62	-	62	1.0
Other - Roof	-	0	-	0	0.0
Ceiling	-	0	-	0	0.0
Glass - Conduction	440	-	-	440	6.9
Glass - Solar	-	3,854	-	3,854	60.0
Door	-	-207	-	-207	-3.2
Wall	-	372	-	372	5.8
Below-grade Wall	-	0	-	0	0.0
Partition	-	-465	-	-465	-7.2
Other - Wall	-	0	-	0	0.0
Exterior Floor	-	0	-	0	0.0
Interior Floor	-	-1,108	-	-1,108	-17.3
Slab	-	0	-	0	0.0
Other - Floor	-	0	-	0	0.0
Infiltration	180	-	199	379	5.9
Subtotal	620	2,508	199	3,327	51.8
Internal Gains					
People	350	430	400	1,180	18.4
Lights	571	0	-	571	8.9
Return Air - Lights	0	-	-	0	0.0
Equipment	742	0	0	742	11.6
Subtotal	1,663	430	400	2,493	38.8
Systems					
Zone Ventilation	298	-	329	628	9.8
Transfer Air	0	-	0	0	0.0
DOAS Direct to Zone	0	-	0	0	0.0
Return Air - Other	0	-	-	0	0.0
Power Generation Equipment	0	0	-	0	0.0
Refrigeration	0	-	0	0	0.0
Water Use Equipment	0	-	0	0	0.0
HVAC Equipment Loss	0	0	-	0	0.0
Subtotal	298	0	329	628	9.8
Total					
Sizing Factor Adjustment	0	-	-	0	0.0
Time Delay Correction	-	-29	-	-29	-0.5
Grand Total	2,581	2,908	928	6,418	100.0

Zone Load Summary

Space 5

COOLING

CONDITIONS AT TIME OF PEAK

Time at Peak: 7/21 17:30:00

Outside

DB: 94.3 F

HR: 0.0141 lb/lb

WB: 74.8 F

Zone

DB: 75.0 F

HR: 0.0092 lb/lb

RH: 49.6 %

ENGINEERING CHECKS

Capacity per Floor Area: 38.36 Btu/hr-ft²

Floor Area per Capacity: 26.0707 ft²/kBtu-hr

Outdoor Air Percentage: 5.16 %

Airflow per Floor Area: 1.740916

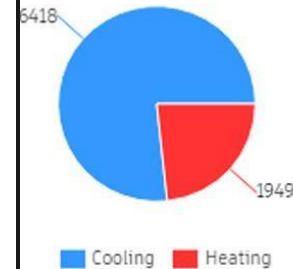
ft³/min-ft²

Airflow per Capacity: 544.644521

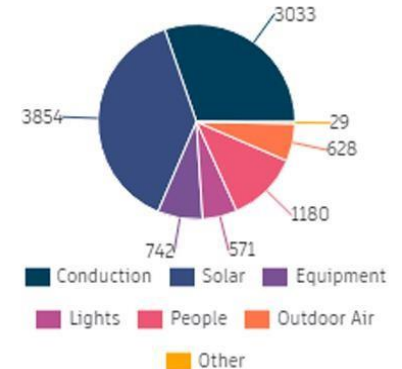
ft³/min-ton

Number of People: 2.0

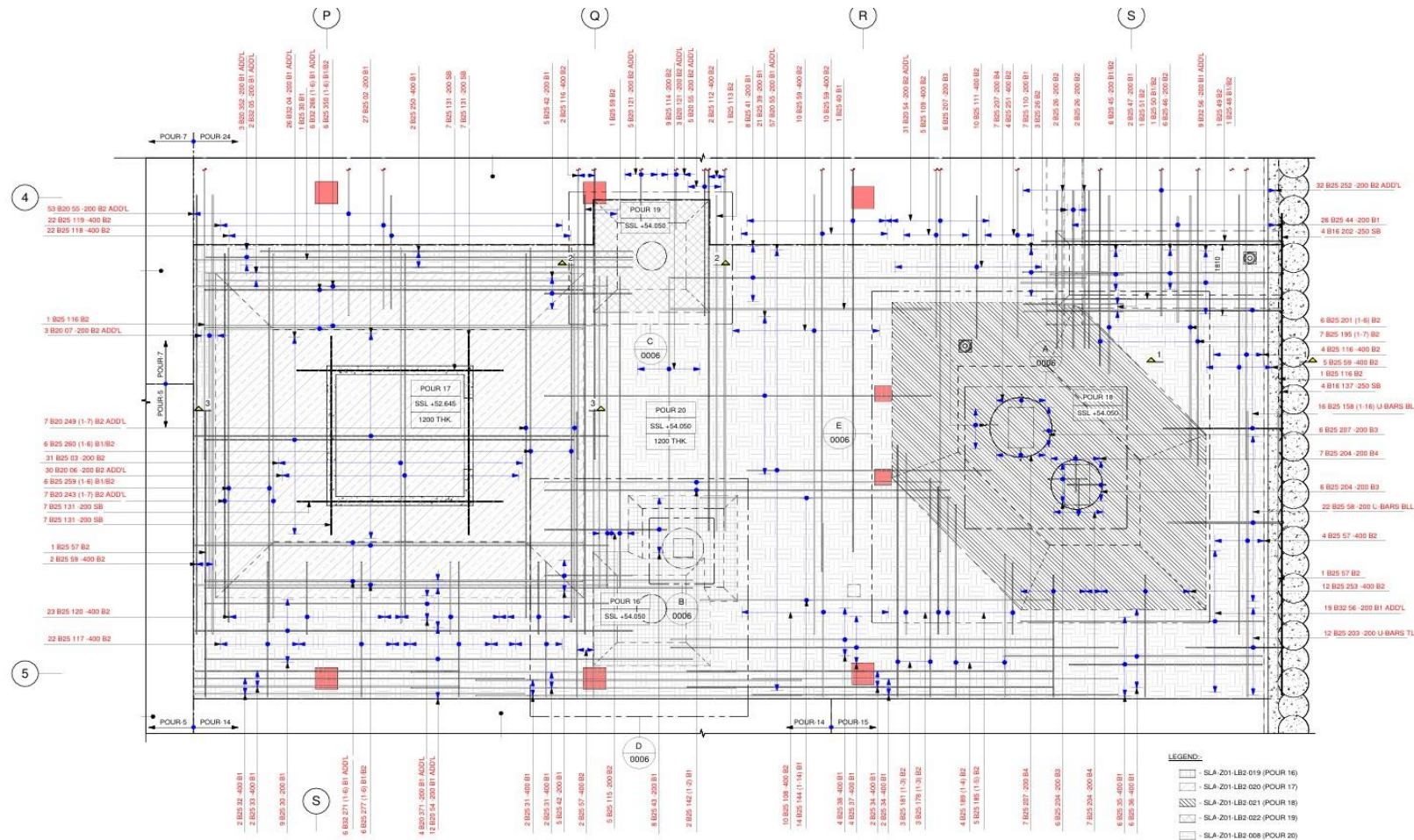
Peak Loads [Btu/hr]



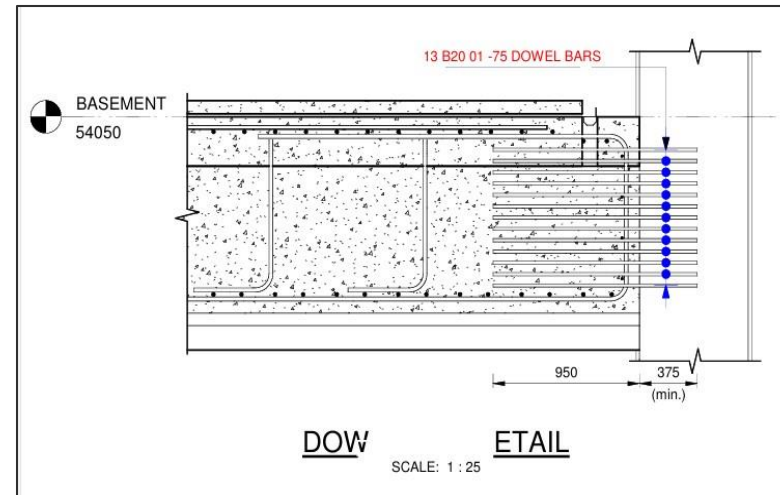
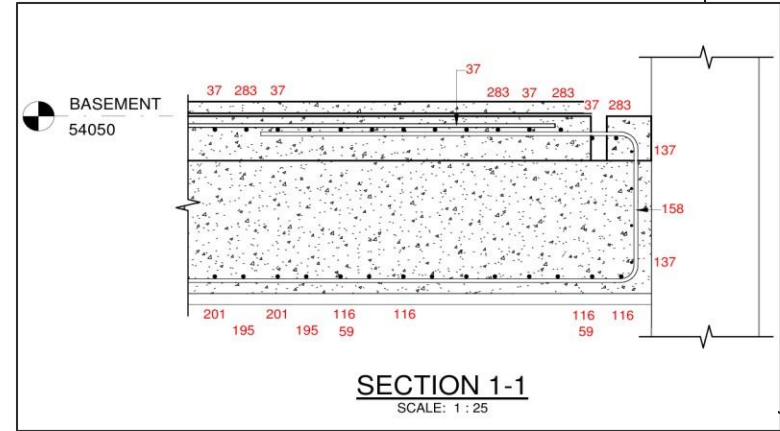
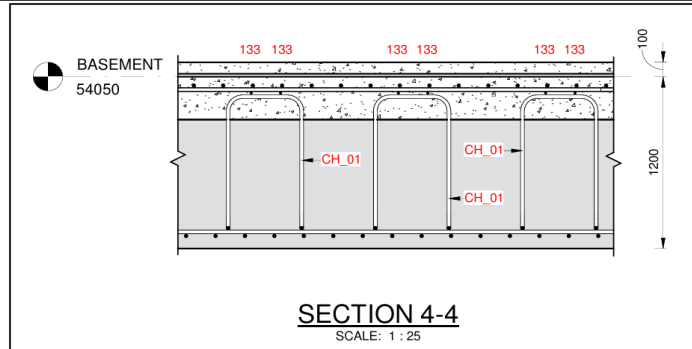
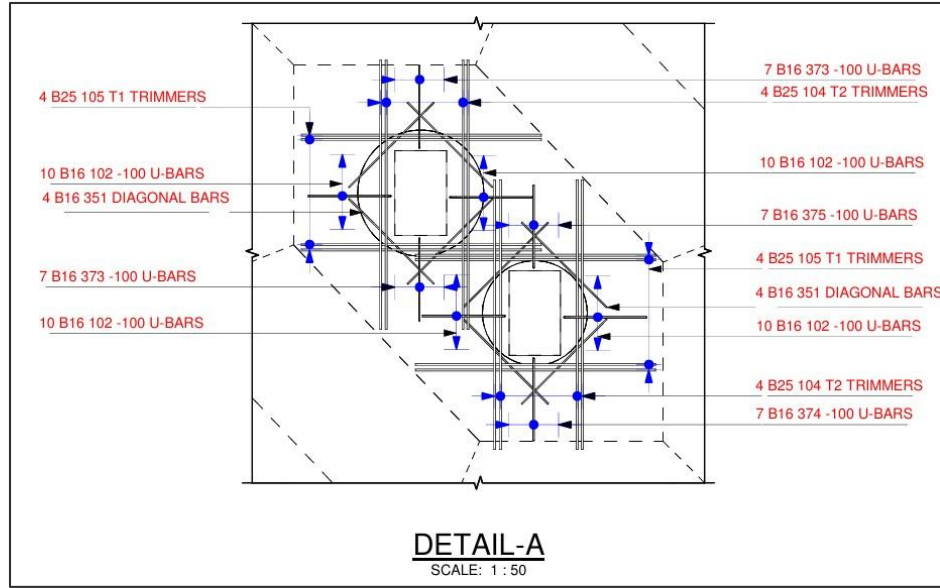
Cooling Load Components [Btu/hr]



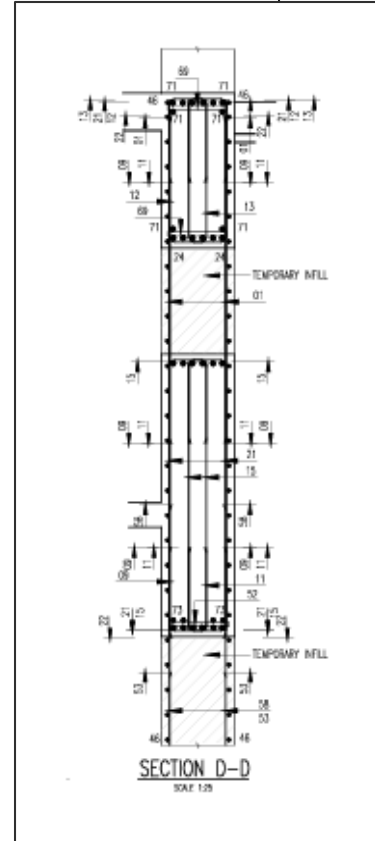
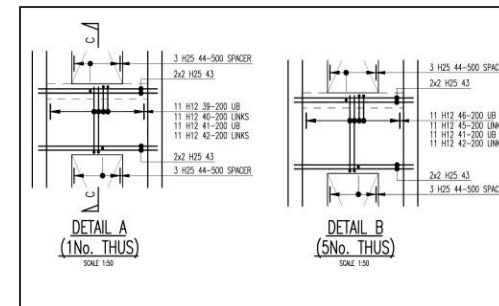
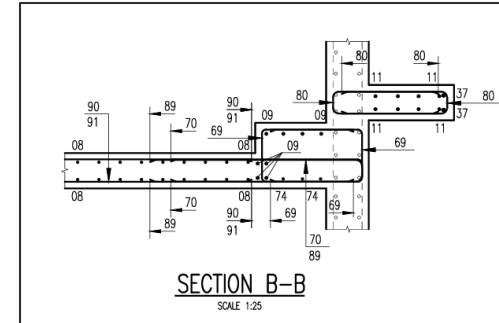
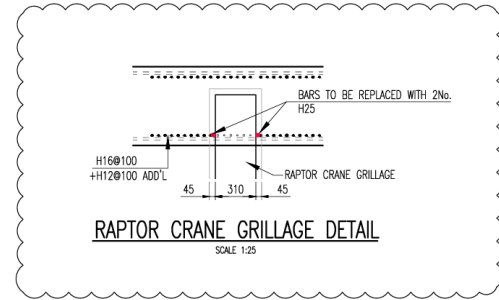
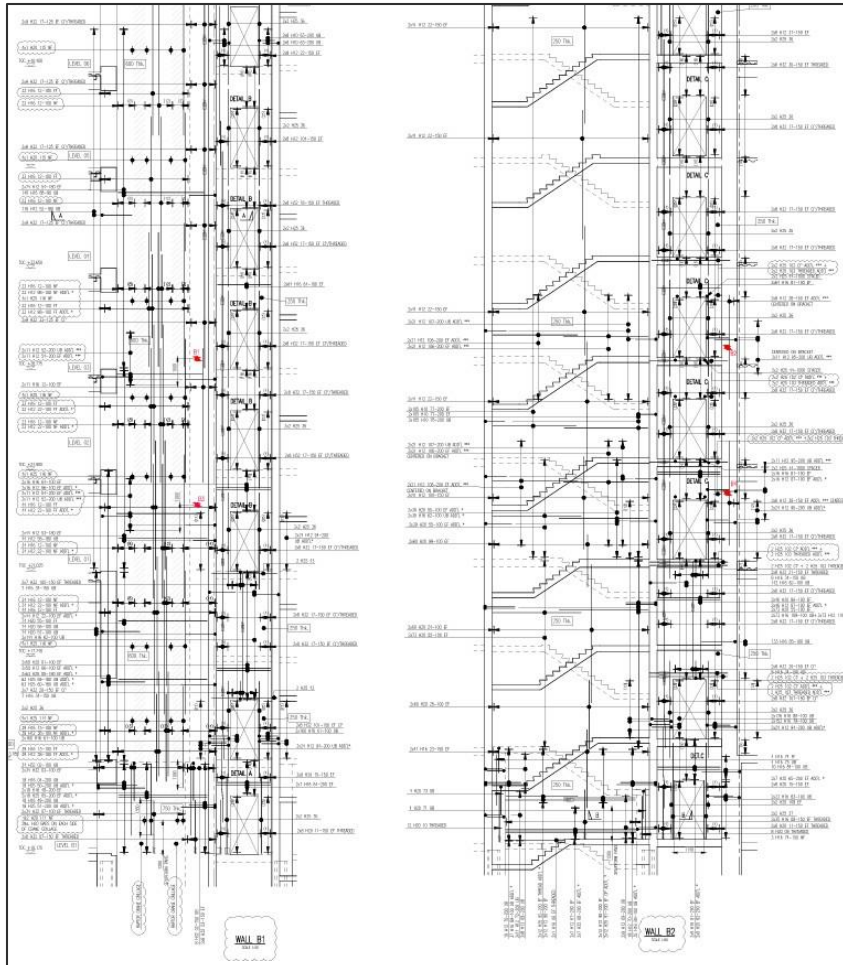
STRUCTURAL / REBAR DETAILING PROJECT



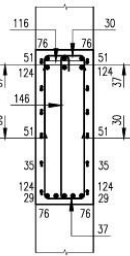
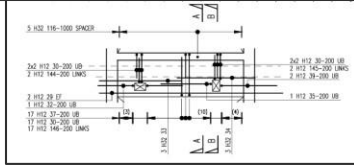
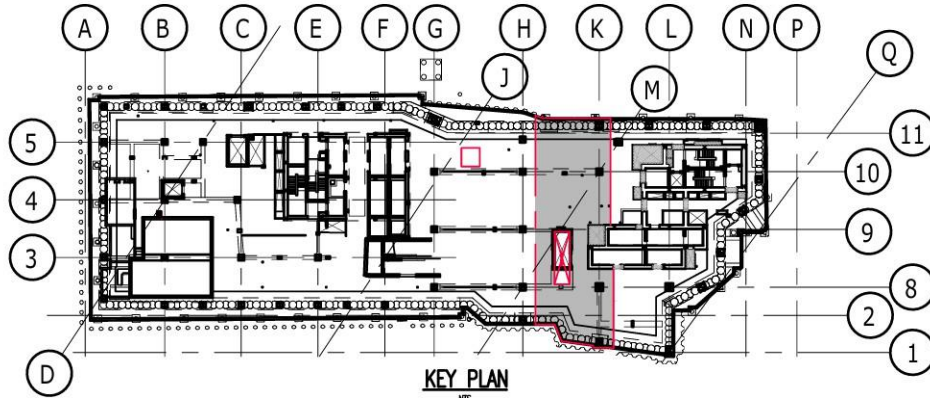
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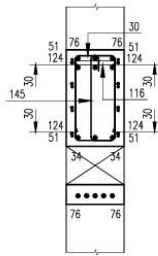
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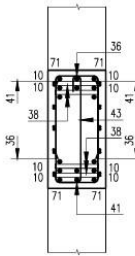
• STRUCTURAL / REBAR DETAILING PROJECT



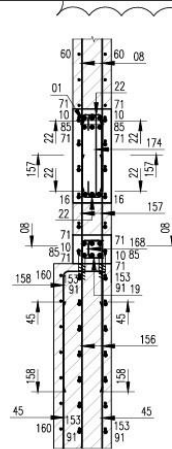
SCALE 1/25



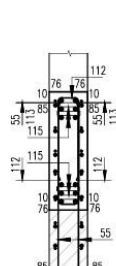
SCALE 1/25



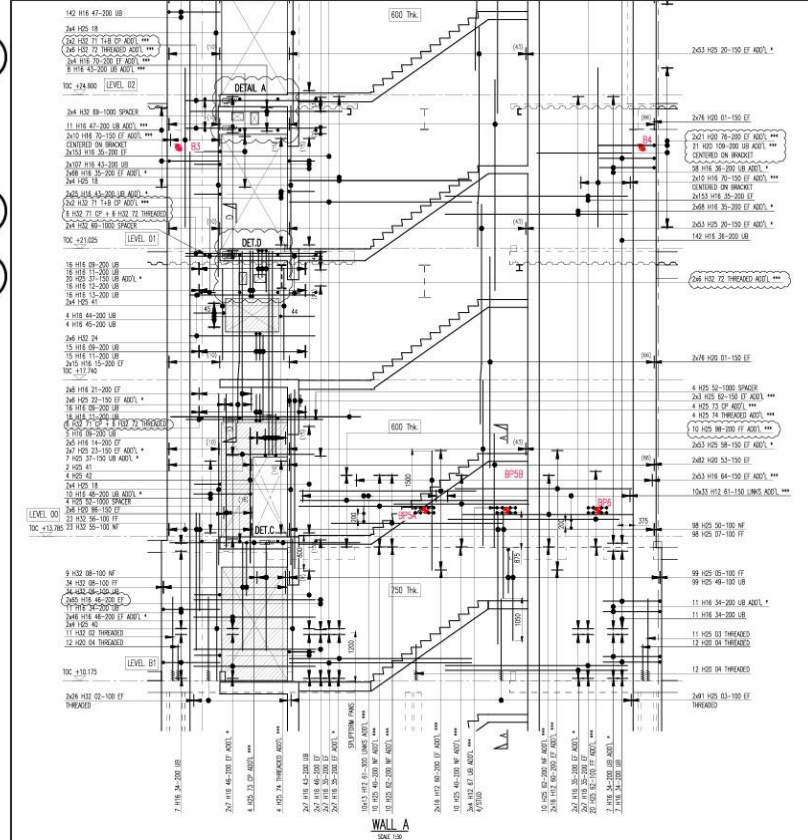
SCALE 1/25



SCALE 1/25

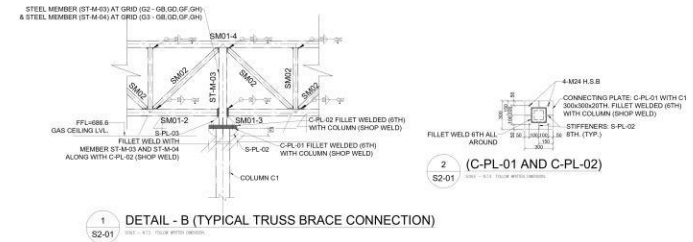
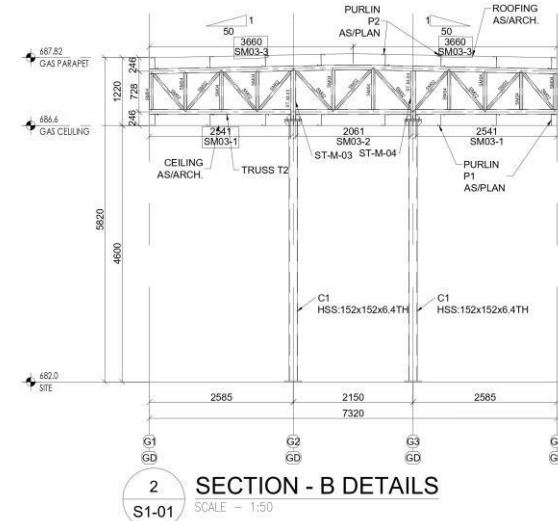
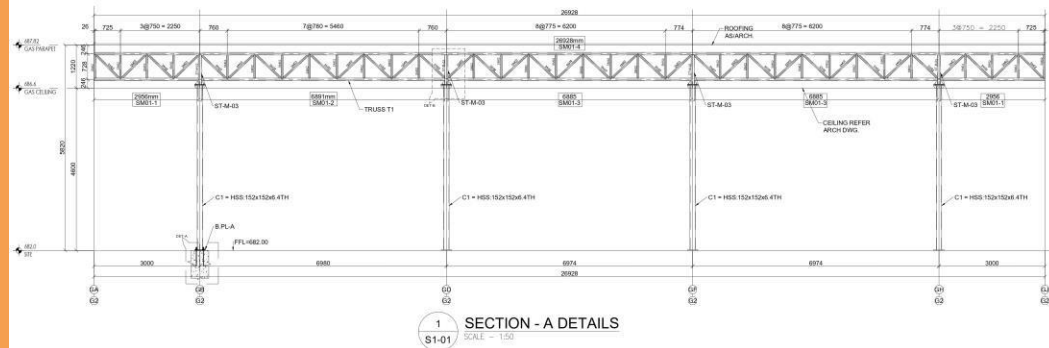
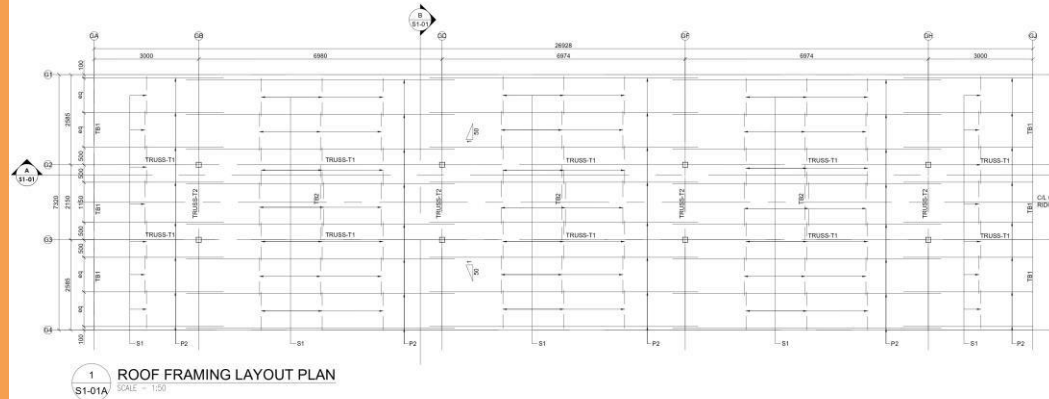


SCALE 1/25



Gas Station Project

Fabrication Drawings (Canada)



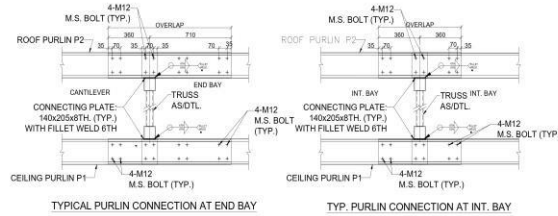
Gas Station Project

Fabrication Drawings (Canada)



BILL OF MATERIAL

PART MARK	MEMBER	NUMBER OF MEMBERS	LENGTH OF MEMBER (mm)	TOTAL WEIGHT OF MEMBERS (Kg)	REMARKS
C1	HSS:152x152x6.4TH.	08	4654	1054	STEEL COLUMN
B.PL.-A	300 X 300 X 20TH	08	--	114	BASE PLATES ARE SHOP WELDED WITH COLUMNS ALL AROUND WITH 6mm THK FILLET WELD
ANCHORS	L-TYPE ANCHOR RODS.	32	REFER TABLE	--	ANCHOR RODS CONFORMS TO 300W THREADED ROD AS PER CSA A40.21
ST-PL-01	65X150X8TH	32	--	10	ST-PL-01 PLATES ARE SHOP WELDED WITH COLUMNS AND BASE PLATES ALL AROUND BOTH SIDES WITH 6mm THK FILLET WELD.
ST-PL-02	REFER FROM SKETCH	32	--	10	ST-PL-02 PLATES ARE SHOP WELDED WITH COLUMNS C1 AT TOP LOCATION AND WITH C-PL-01 PLATES ALL AROUND WITH 6mm THK FILLET WELD
ST-PL-03	REFER FROM SKETCH	32	--	10	ST-PL-03 PLATES ARE SHOP WELDED WITH ST-M-03 AND ST-M-04 AT BOTTOM LOCATION AND WITH C-PL-02 PLATES ALL AROUND BOTH SIDES WITH 6mm THK FILLET WELD
C-PL-01 CONNECTING PLATE	300X300X20TH	08	--	114	CONNECTING PLATES C-PL-01 ARE SHOP WELDED WITH COLUMNS C1 AND WITH ST-PL-02 ALL AROUND WITH 6mm THK FILLET WELD
C-PL-02 CONNECTING PLATE	300X300X20TH	08	--	114	CONNECTING PLATES C-PL-02 ARE SHOP WELDED WITH ST-M-03 OR ST-M-04 AND WITH ST-PL-03 ALL AROUND WITH 6mm THK FILLET WELD
ST-M-03 STEEL MEMBER	HSS: 89x89x4.8TH.	04	822 VERIFY WITH ARCH. DWG.	41	CONNECTING PLATES C-PL-02 ARE SHOP WELDED WITH ST-M-03 OR ST-M-04 ALL AROUND WITH 6mm THK FILLET WELD
ST-M-04 STEEL MEMBER	HSS: 64x64x4.8TH.	04	865 VERIFY WITH ARCH. DWG	29	CONNECTING PLATES C-PL-02 ARE SHOP WELDED WITH ST-M-03 AND ST-M-04 ALL AROUND WITH 6mm THK FILLET WELD (ST-M-04 ARE TAPPED AT TOP)
SM01-1	HSS: 76x76x4.8th	02*(2TRUSS)	2956	122	THESE ARE BOTTOM CHORD STEEL MEMBER WITH CONT. WELDED CONNECTION BY FILLET WELD 6TH.
SM01-2	HSS: 76x76x4.8th	01*(2TRUSS)	6891	142	
SM01-3	HSS: 76x76x4.8th	02*(2TRUSS)	6885	284	
SM01-4	HSS: 76x76x4.8th	01*(2TRUSS)	26928	555	THESE ARE TOP CHORD STEEL MEMBER WITH CONT. WELDED CONNECTION BY FILLET WELD 6TH.
SM02	HSS: 51x51x3.2th	--	REFER DIM. FROM DWG.	--	THESE ARE STEEL BRACING MEMBERS OF TRUSS WITH CONT. FILLET WELD 6TH.
SM03-1	HSS: 89x89x4.8th	02*(2TRUSS)	2541	124	THESE ARE BOTTOM CHORD STEEL MEMBER WITH CONT. WELDED CONNECTION BY FILLET WELD 6TH.
SM03-2	HSS: 89x89x4.8th	01*(2TRUSS)	2061	50	
SM03-3	HSS: 89x89x4.8th	02*(2TRUSS)	3660	179	THESE ARE TOP CHORD STEEL MEMBER WITH CONT. WELDED CONNECTION BY FILLET WELD 6TH.
SM04	HSS: 64x64x4.8th	--	REFER DIM FROM DWG.	--	THESE ARE STEEL BRACING MEMBERS OF TRUSS WITH CONT. FILLET WELD 6TH.
BOLTS AND NUTS WITH ACCESSORIES	M24 CONFORMS TO ASTM A325 & NUTS ASTM A563A.	32	LENGTH AS PER DESIGN	--	HIGH STRENGTH BOLTS WITH WASHERS.
PURLINS (P1 & P2)	203Z76-254M	--	LENGTH AS PER DESIGN	--	--
SAG RODS (S1)	12mm DIA RODS	--	LENGTH AS PER DESIGN	--	--
TB1	HSS: 127X76X4.8TH	--	NO DETAILS AVAILABLE	--	DETAILS ARE NOT AVAILABLE. DESIGNER TO PROVIDE DETAILS SUCH AS CONNECTION DETAILS, LOCATION AND LEVELS OF STEEL BEAMS.
TB2	HSS: 51X51X3.2TH	--	NO DETAILS AVAILABLE	--	DETAILS ARE NOT AVAILABLE. DESIGNER TO PROVIDE DETAILS SUCH AS CONNECTION DETAILS, LOCATION AND LEVELS OF STEEL BEAMS.

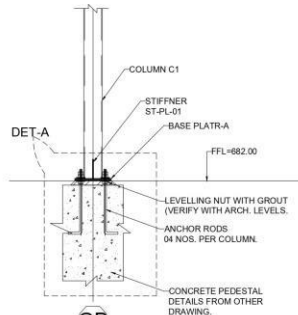
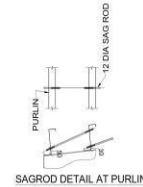


3 TYPICAL CONNECTION DETAILS
S2-01 SCALE - 1/2" = 1'-0" FOLLOW WELDED DIMENSIONS.

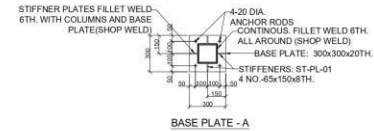
ANCHOR ROD DETAILS					
BOLT DIA.	L	A	B	C	ST
3/4"	3/8"	1/2"	1/2"	4/3"	1/2"

ANCHOR ROD DETAILS

4 ANCHOR ROD DETAILS
S2-01 SCALE - 1/2" = 1'-0" FOLLOW WELDED DIMENSIONS.



3
S1-01 SCALE - 1/2" = 1'-0" FOLLOW WELDED DIMENSIONS.



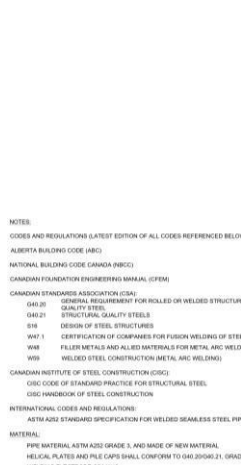
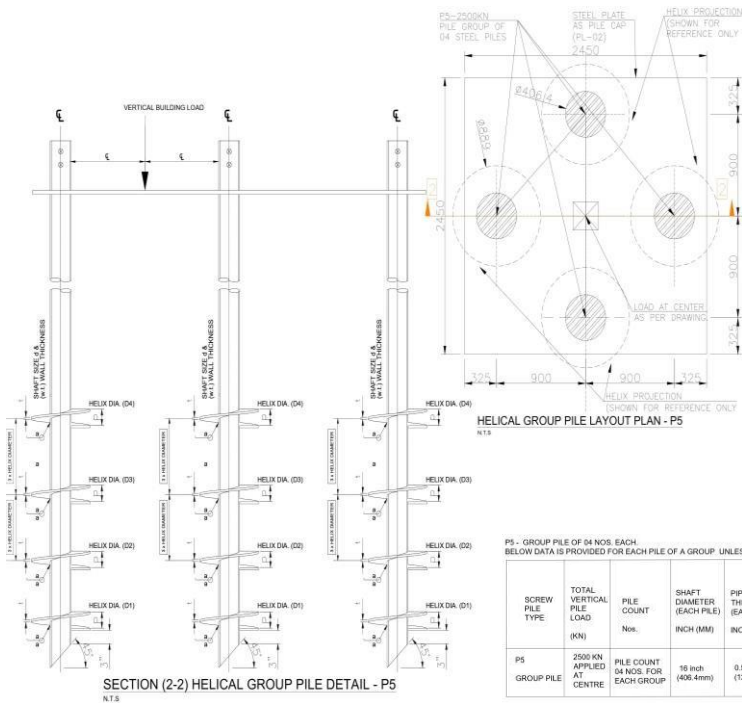
4 TYPICAL BASE PLATE CONNECTION DETAILS
S1-01 SCALE - 1/2" = 1'-0" FOLLOW WELDED DIMENSIONS.

Screw Pile Project

Shop Drawings (Canada)

P4 - GROUP PILE OF 02 NOS. EACH
BELOW DATA IS PROVIDED FOR EACH PILE OF A GROUP UNLESS NOTED OTHERWISE

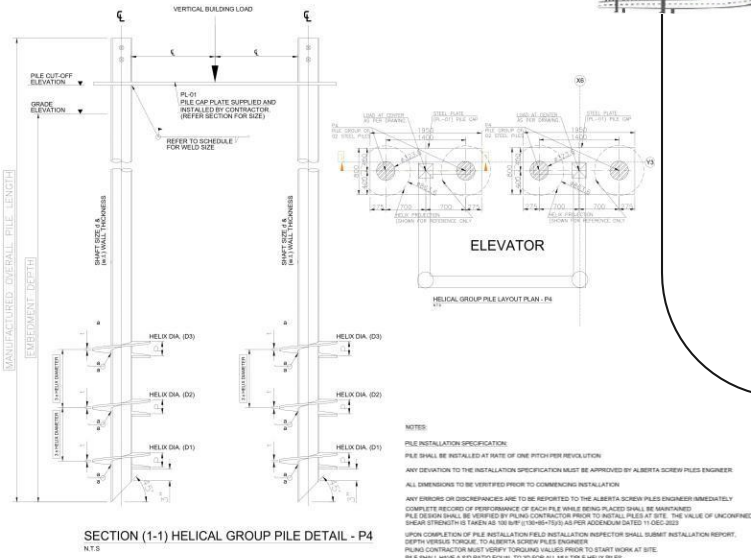
SCREW PILE TYPE	TOTAL VERTICAL PILE LOAD (KN)	PILE COUNT Nos.	SHAFT DIAMETER (EACH PILE) INCH (MM)	PIPE WALL THICKNESS (EACH PILE) INCH (MM)	HELICAL PLATE DIAMETER FROM CENTRE OF PILE (D1) (EACH PILE)	HELICAL PLATE DIAMETER FROM CENTRE OF PILE (D2) (EACH PILE)	HELICAL PLATE DIAMETER FROM CENTRE OF PILE (D3) (EACH PILE)	HELICAL PLATE DIAMETER FROM CENTRE OF PILE (D4) (EACH PILE)	AS HELICAL PLATE THICKNESS (E) (EACH PILE)	MINIMUM EMBEDMENT DEPTH OF PILE (EACH PILE)	PITCH (P) FOR HELICAL PLATES (EACH PILE)	MAXIMUM INSTALLATION TORQUE (EACH PILE)	MINIMUM INSTALLATION TORQUE (EACH PILE)	PILE CAP PLATE DIMENSION (PL-D1) FOR GROUP
					INCH (MM)	INCH (MM)	INCH (MM)	INCH (MM)	INCH (MM)	FEET (METER)	INCH (MM)	(b-ft)	(b-ft)	
P4 GROUP PILE	990 KN APPLIED AT CENTRE	PILE COUNT 02 NOS. FOR EACH GROUP	12.740 inch (323.6mm)	0.465 inch (11.6mm)	34 inch (863.6mm)	34 inch (863.6mm)	34 inch (863.6mm)	34 inch (863.6mm)	NOT REQUIRED	0.75 inch (19.05mm)	32.81 Ft. (10m)	53,392 ft-lbs	26,696 ft-lbs	REFER SECTION AND THK OF PLATE = 1 INCH (25.4MM)



NOTES:
CODES AND REGULATIONS (LATEST EDITION OF ALL CODES REFERENCED BELOW)
ALBERTA BUILDING CODE (ABC)
NATIONAL BUILDING CODE (NBC)
CANADIAN FOUNDATION ENGINEERING MANUAL (CFEM)
CANADIAN STANDARDS ASSOCIATION (CSA)
GENERAL REQUIREMENT FOR ROLLED OR WELDED STRUCTURAL QUALITY STEEL
S16-09 DESIGN OF STEEL STRUCTURES
W47.1 CERTIFICATION OF COMPANIES FOR FUSION WELDING OF STEEL
W48 FILLER METALS AND ALLOY MATERIALS FOR METAL ARC WELDING
W58 WELDED STEEL CONSTRUCTION (METAL ARC WELDING)
CANADIAN INSTITUTE OF STEEL CONSTRUCTION (CISC)
CISC CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL
CISC HANDBOOK OF STEEL CONSTRUCTION
INTERNATIONAL CODES AND REGULATIONS:
ASTM A242 STANDARD SPECIFICATION FOR WELDED SEAMLESS STEEL PIPE
MATERIAL:
PIPE MATERIAL, ASTM A242 GRADE S, AND MADE OF NEW MATERIAL
HELICAL PLATES AND PILE CAPS SHALL CONFORM TO ISO 6404/21, GRADE 303W
WELDING ELECTRODE CSA W48

P5 - GROUP PILE OF 04 NOS. EACH
BELOW DATA IS PROVIDED FOR EACH PILE OF A GROUP UNLESS NOTED OTHERWISE

SCREW PILE TYPE	TOTAL VERTICAL PILE LOAD (KN)	PILE COUNT Nos.	SHAFT DIAMETER (EACH PILE) INCH (MM)	PIPE WALL THICKNESS (EACH PILE) INCH (MM)	HELICAL PLATE DIAMETER FROM CENTRE OF PILE (D1) (EACH PILE) INCH (MM)	HELICAL PLATE DIAMETER FROM CENTRE OF PILE (D2) (EACH PILE) INCH (MM)	HELICAL PLATE DIAMETER FROM CENTRE OF PILE (D3) (EACH PILE) INCH (MM)	HELICAL PLATE DIAMETER FROM CENTRE OF PILE (D4) (EACH PILE) INCH (MM)	AS HELICAL PLATE THICKNESS (E) (EACH PILE) INCH (MM)	MINIMUM EMBEDMENT DEPTH OF PILE (EACH PILE) FEET (METER)	PITCH (P) FOR HELICAL PLATES (EACH PILE) INCH (MM)	MAXIMUM INSTALLATION TORQUE (EACH PILE) (b-ft)	MINIMUM INSTALLATION TORQUE (EACH PILE) (b-ft)	PILE CAP PLATE DIMENSION (PL-D1) FOR GROUP.
P5 GROUP PILE	2500 kN APPLIED AT CENTRE	PILE COUNT 04 NOS. FOR EACH GROUP	18 inch (460.4mm)	0.5 inch (12.7mm)	35 inch (889mm)	35 inch (889mm)	35 inch (889mm)	35 inch (889mm)	1 inch (25.4mm)	32.81 Ft. (10m)	3" ± 1/2" INCHES (76.2 ± 6.35mm)	70,253 ft-lbs	35,126 ft-lbs	REFER SECTION AND THK OF PLATE = 1 INCH (25.4MM)



NOTES:
PILE INSTALLATION SPECIFICATION
PILE SHALL BE INSTALLED AT RATE OF ONE PITCH PER REVOLUTION
ANY DEVIATION TO THE INSTALLATION SPECIFICATION MUST BE APPROVED BY ALBERTA SCREW PILE ENGINEER
ALL DIMENSIONS TO BE VERIFIED PRIOR TO COMMENCING INSTALLATION
ANY ERRORS OR DISCREPANCIES ARE TO BE REPORTED TO THE ALBERTA SCREW PILE ENGINEER IMMEDIATELY
COMPLETE RECORD OF PERFORMANCE OF EACH PILE WHILE BEING PLACED SHALL BE MAINTAINED
PILE DESIGN SHALL BE VERIFIED BY PILES CONTRACTOR PRIOR TO INSTALLATION AT SITE. THE VALUE OF UNCONFIRMED SHEAR STRENGTH IS TAKEN AS 180 kN/m² (1300-1600 PSI) AS PER ADDENDUM DATED 11 DEC 2023
UPON COMPLETION OF PILE INSTALLATION PILES INSTALLATION REPORT FOR EACH PILE SHALL BE SUBMITTED TO THE ALBERTA SCREW PILE ENGINEER
PILING CONTRACTOR MUST VERIFY TORQUE VALUES PRIOR TO START WORK AT SITE
PILE SHALL HAVE A S/D RATIO EQUAL TO 50 FOR ALL MULTIPLE HELIX PILES
AT VALUES 50 OR THEREAFTER AT 47 IS CRITICAL TORQUE FACTOR
PILES TO BE INSTALLED TO THE FOLLOWING TOLERANCES:
VERTICAL: ± 27 mm CENTER POINT
CUT OF ELEVATION: ± 10 mm
HORIZONTAL: ± 27 mm CENTER POINT
PROJECT SPECIFIC DESIGN SPECIFICATION:
ADDITIONAL CODE AND STANDARD: ALBERTA BUILDING CODE (ABC) 2019
THE GEOTECHNICAL INVESTIGATION REPORT PROVIDED HAVE VERY LIMITED INFORMATION TO APPLY FOR THE SCREW PILE DESIGN. DESIGN ENGINEER CONSIDERED A NEAR BY PREVIOUS DATA AND EXPERIENCE IN THE AREA.
ACTUAL SOIL CONDITIONS MAY VARY AT PILE LOCATIONS. THE CLIENT IS TO ACCEPT ALL RISK ASSOCIATED WITH SUCH VARIATIONS
FACTORED GEOTECHNICAL RESISTANCE AT ULTIMATE LIMIT STATE "ULS" FOR AXIAL COMPRESSION AND TENSION
FOR EACH HELICAL PILE TYPE, AS PER SECTION 8.4.1 (FORM 2006)
GEOTECHNICAL RESISTANCE FACTOR: 0.5 FOR COMPRESSION, 0.3 FOR UPLIFT
THE MAXIMUM DEPTH OF FROST PENETRATION EXPECTED IS 0.3m BELOW GROUND SURFACE. ADDRESS THE VALUE OF 0.3m USED IN DESIGN
CONTRACTOR MAY FILL THE SHAFT WITH CONCRETE AS PER SITE CONDITION.

PROJECTS COMPLETED FOR QUANTITY TAKEOFF



LOCATION: DUBAI

- Dubai International Airport – Phase Iii
- Dubai Towers At Sheikh Zayed Road, Dubai.
- Up Town Motor City, Independent Township, Dubai



PROJECTS COMPLETED FOR QUANTITY TAKEOFF

LOCATION: UK

- Uddingston Grammer School, Lanarkshire, Uk.
- Cathkin High School, Lanarshire, Uk.

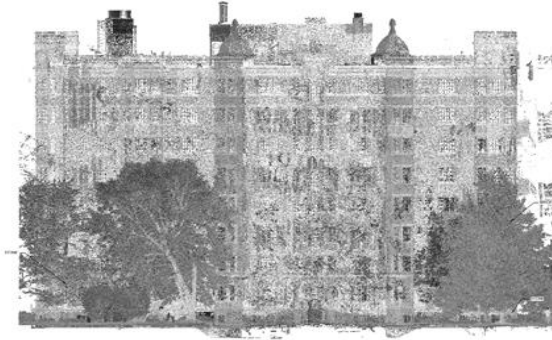




Conversion of Point Cloud Model into Revit Model:

- **Trades Covered:** ARC
- **LOD:** 300
- **Software:** Revit, ReCap & TruView
- **Project Area:** 11,000 Sq. ft.

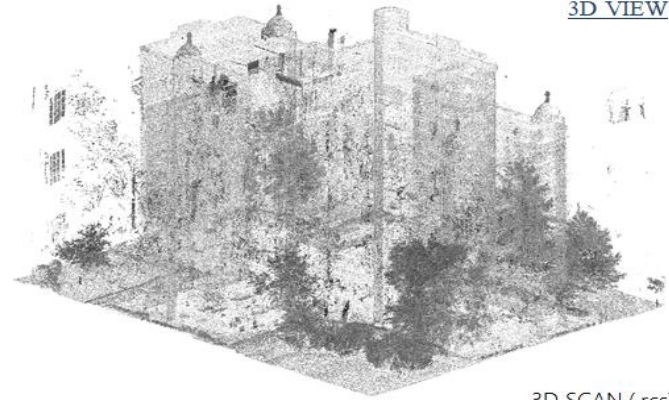
ELEVATIONS



Point Cloud Data



Revit Model

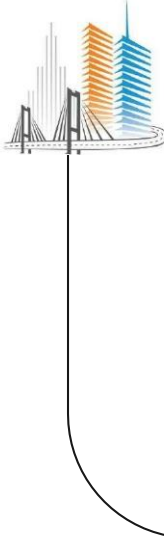


3D VIEW

3D SCAN (.rcs)



BIM Model with 3D scan

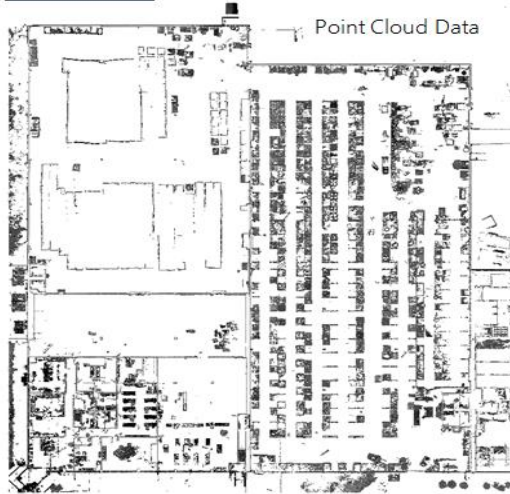




Conversion of Point Cloud Model into Revit Model:

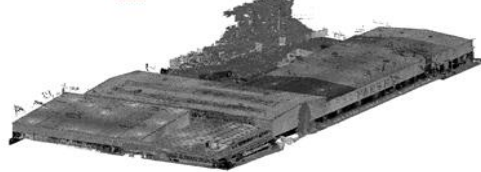
- **Trades Covered:** ARC & STR
- **LOD:** 350
- **Software:** Revit, ReCap & TruView
- **Project Area:** 1,07,000 Sq. ft.

FLOOR PLAN

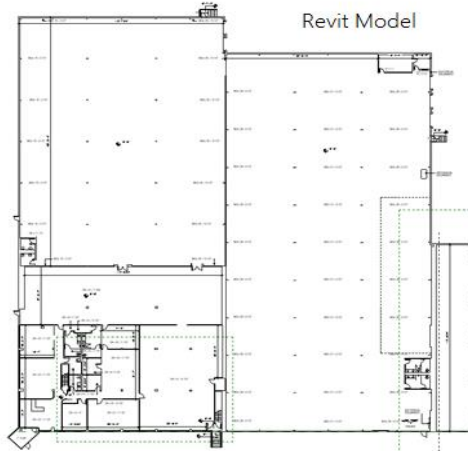


Point Cloud Data

3D SCAN (.rcs)

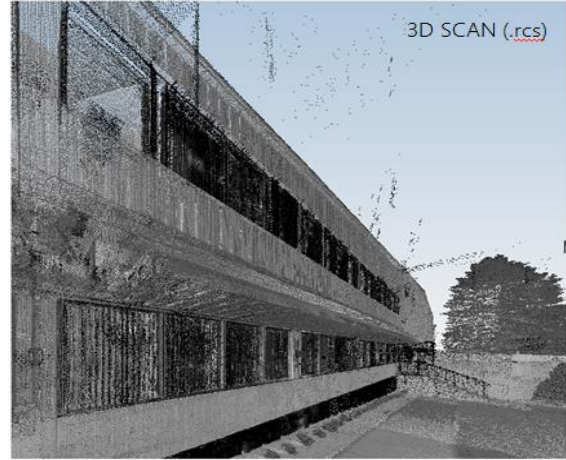


Revit Model

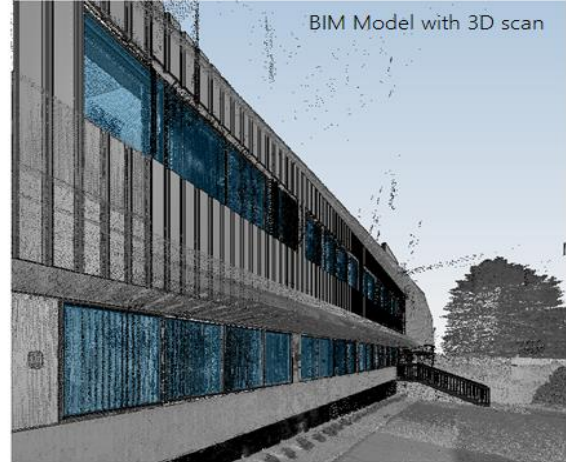


3D VIEW

3D SCAN (.rcs)

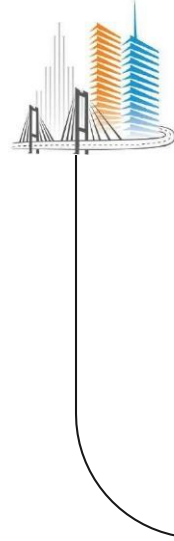


BIM Model with 3D scan



Conversion of Point Cloud Model into Revit Model:

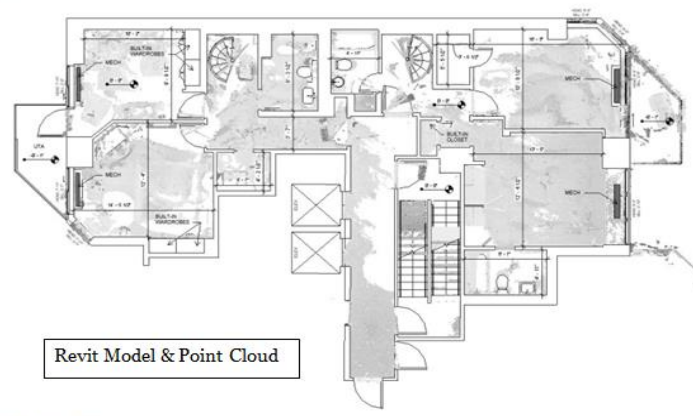
- **Trades Covered:** ARC & STR
- **LOD:** 350
- **Software:** Revit, ReCap & Jetstream
- **Project Area:** 2501 Sq. ft.



FLOOR PLANS

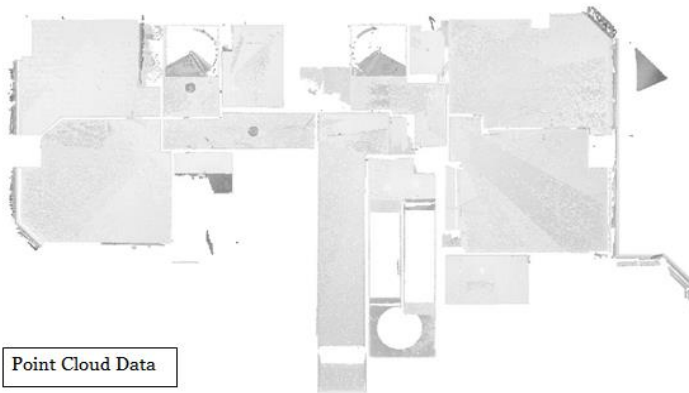


Point Cloud Data

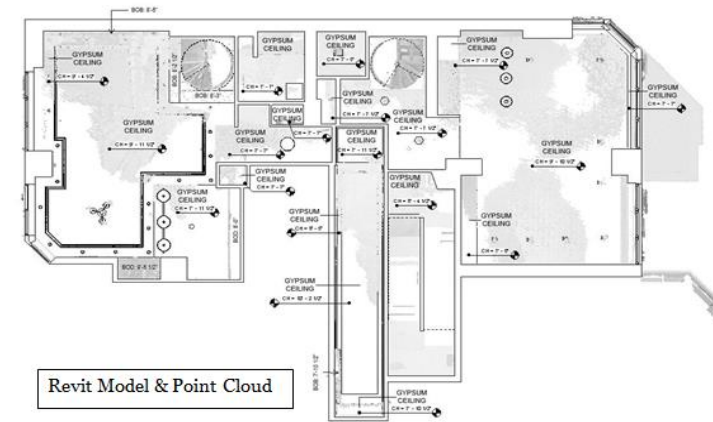


Revit Model & Point Cloud

REFLECTIVE CEILING PLAN



Point Cloud Data



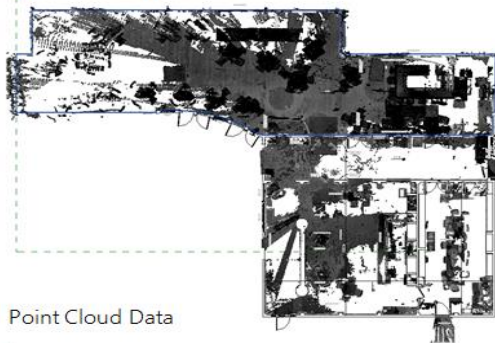
Revit Model & Point Cloud



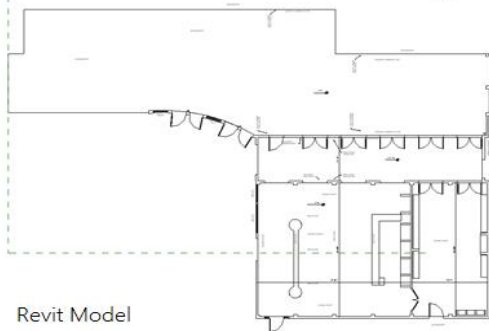
Conversion of Point Cloud Model into Revit Model:

- **Trades Covered:** ARC
- **LOD:** 300
- **Software:** Revit, ReCap & TruView
- **Project Area:** 11,000 Sq. ft.

PLAN OF OUTDOOR 2

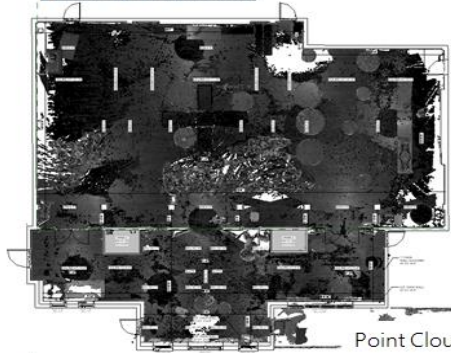


Point Cloud Data

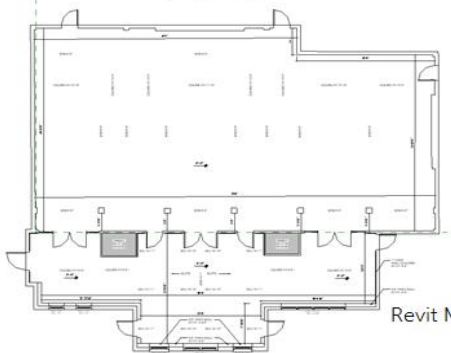


Revit Model

PLAN OF BALLROOM

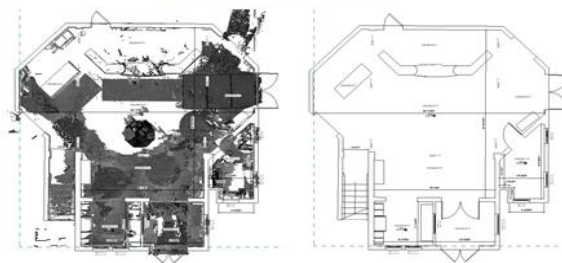


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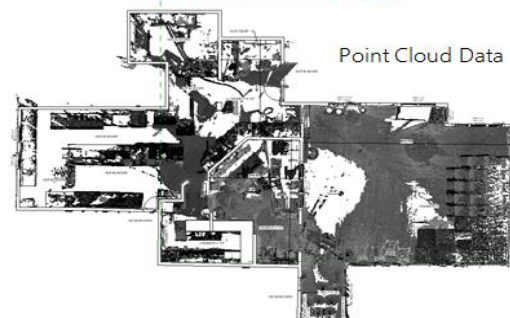


Revit Model

PLAN OF OUTDOOR 1



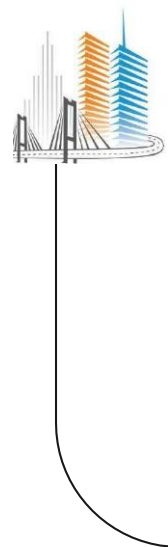
PLAN OF WAUVINET BAR



Point Cloud Data



Revit Model

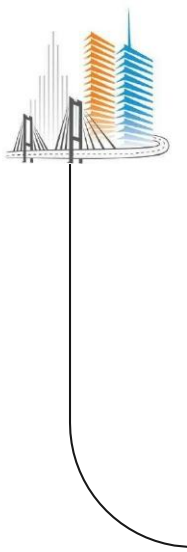




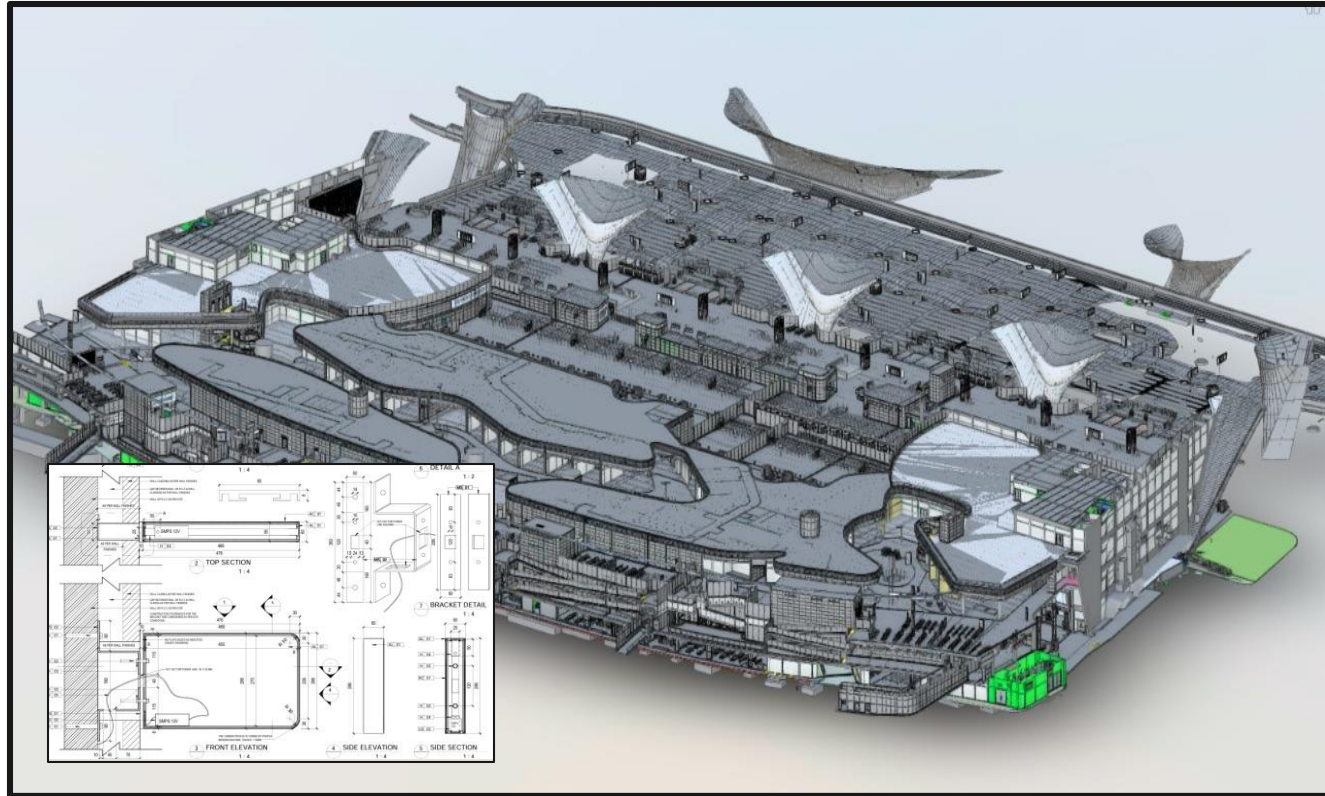
MAJOR PROJECTS COMPLETED IN INDIA

MAJOR PROJECTS

- Navi Mumbai International Airport, Mumbai
- Metro Stations Of NCRTC, Delhi
- Naval Dockyard Industrial Building, Mumbai
- Fully Automatic Multilevel Car Parking, Punjab
- Development Of Railway Stations Project, J&k, India
- Smart City Project, Saharanpur
- Smart City Project, Lucknow
- Smart City Project, Amritsar
- Skywalk Project- 450 meters.
- BRTS Bus Depot Project, Amritsar
- Hotel Sheridan Inn, Jalandhar, Punjab.
- Hotel Mariton Inn, Jalandhar, Punjab.

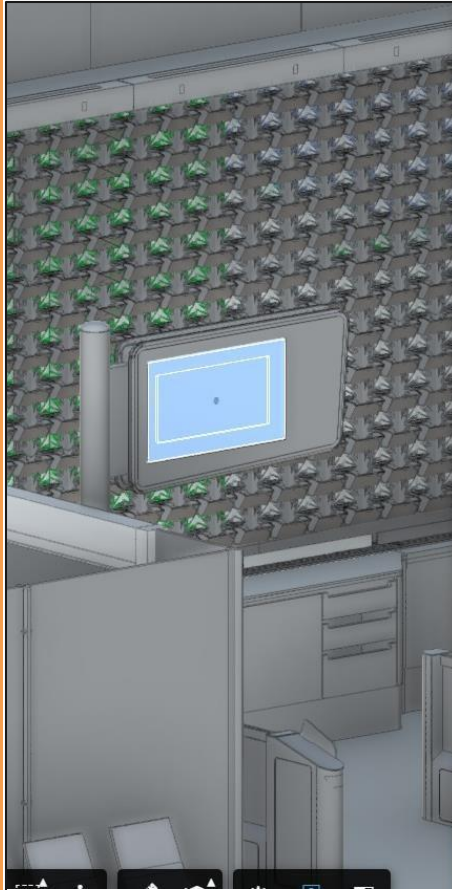


• Navi Mumbai International Airport, Mumbai



NOTES 1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED. 2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED. 3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED. 4. THE DRAWING SHALL BE USED FOR THE DESIGN OF THE BUILDING. 5. THE DRAWING SHALL BE USED FOR THE DESIGN OF THE BUILDING. 6. THE DRAWING SHALL BE USED FOR THE DESIGN OF THE BUILDING. 7. THE DRAWING SHALL BE USED FOR THE DESIGN OF THE BUILDING. 8. THE DRAWING SHALL BE USED FOR THE DESIGN OF THE BUILDING. 9. THE DRAWING SHALL BE USED FOR THE DESIGN OF THE BUILDING. 10. THE DRAWING SHALL BE USED FOR THE DESIGN OF THE BUILDING.	LEGEND 1. 1:1 - 1:1000 (1:1000) 2. 1:1 - 1:1000 (1:1000) 3. 1:1 - 1:1000 (1:1000) 4. 1:1 - 1:1000 (1:1000) 5. 1:1 - 1:1000 (1:1000) 6. 1:1 - 1:1000 (1:1000) 7. 1:1 - 1:1000 (1:1000) 8. 1:1 - 1:1000 (1:1000) 9. 1:1 - 1:1000 (1:1000) 10. 1:1 - 1:1000 (1:1000)
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SECTION 1:1000 1. 1:1 - 1:1000 (1:1000) 2. 1:1 - 1:1000 (1:1000) 3. 1:1 - 1:1000 (1:1000) 4. 1:1 - 1:1000 (1:1000) 5. 1:1 - 1:1000 (1:1000) 6. 1:1 - 1:1000 (1:1000) 7. 1:1 - 1:1000 (1:1000) 8. 1:1 - 1:1000 (1:1000) 9. 1:1 - 1:1000 (1:1000) 10. 1:1 - 1:1000 (1:1000)	SECTION 1:1000 1. 1:1 - 1:1000 (1:1000) 2. 1:1 - 1:1000 (1:1000) 3. 1:1 - 1:1000 (1:1000) 4. 1:1 - 1:1000 (1:1000) 5. 1:1 - 1:1000 (1:1000) 6. 1:1 - 1:1000 (1:1000) 7. 1:1 - 1:1000 (1:1000) 8. 1:1 - 1:1000 (1:1000) 9. 1:1 - 1:1000 (1:1000) 10. 1:1 - 1:1000 (1:1000)

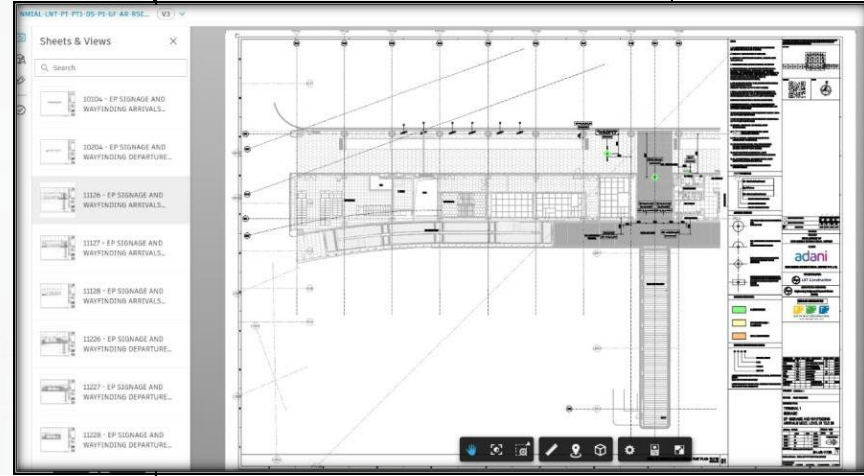
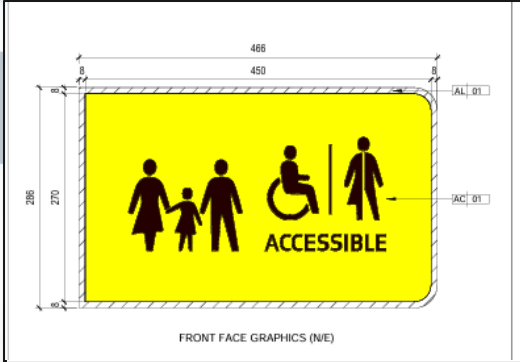
• Navi Mumbai International Airport, Mumbai



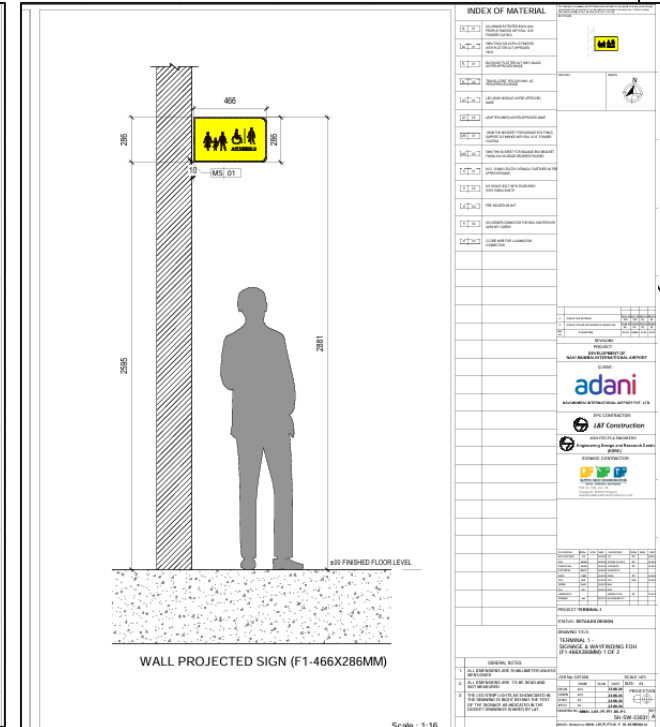
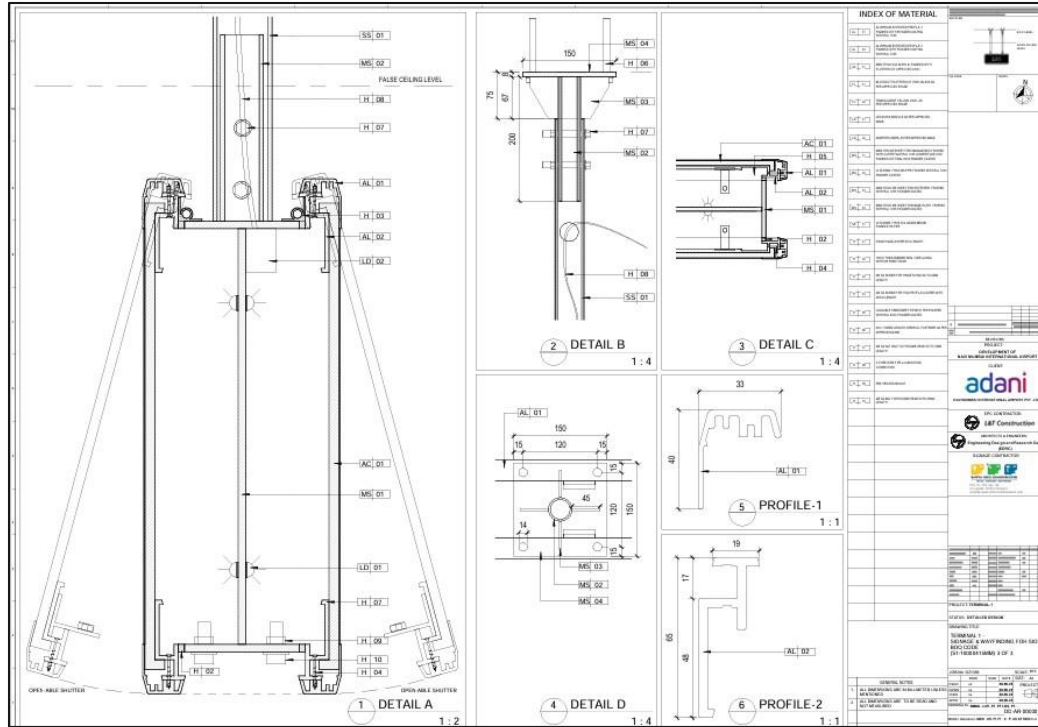
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Classification.Uniclass.Ss.Desc...	



- Navi Mumbai International Airport, Mumbai





• Navi Mumbai International Airport, Mumbai

AUTODESK®
NAVISWORKS®

Clash Report

01 Arch vs Arch	Toleranc 5.000m m	Clashe 13	New 0	Active 13	Revie 0	Appro 0	Resolved	Type 0 Hard	Status OK
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Image	Clash Group	Clash Name	Status	Dista	Grid Location	Descri	Date	Clash Point
		Walls vs Ceiling	Active	-162.6	1-T3-D-T3 : SE-FFL-3RD FLOOR	Hard	2024/11/6 05:54	x:691084669.995, y:3 z:10150.000
	Walls vs Ceiling	Clash2	Active	-162.616	1-T3-D-T3 : SE-FFL-3RD FLOOR	Hard	2024/11/6 05:54	x:691084669.995, y:3 z:10150.000
	Walls vs Ceiling	Clash5	Active	-162.616	16-NT-D-T3 : SE-FFL-3RD FLOOR	Hard	2024/11/6 05:54	x:691085125.066, y:3 z:10150.000
	Walls vs Ceiling	Clash9	Active	-79.541	4-T3-B-T3 : FFL-4TH FLOOR	Hard	2024/11/6 05:54	x:691082262.299, y:3 z:13700.000
	Walls vs Ceiling	Clash10	Active	-79.541	4-T3-R-T3 : FFL-4TH FLOOR	Hard	2024/11/6 05:54	x:691109673.853, y:3 z:13854.803
	Walls vs Ceiling	Clash11	Active	-40	20-NT-L-T3 : SE-FFL-3RD FLOOR	Hard	2024/11/6 05:54	x:691098209.518, y:3 z:10100.000
	Walls vs Ceiling	Clash1	Active	-25.003	16-NT-J-T3 : SE-FFL-3RD FLOOR	Hard	2024/11/6 05:54	x:691095526.093, y:3 z:10100.000
					16-NT-BC-NT : SE-FFL-3RD			x:691095895.837, y:3

01 Arch vs Arch

02 Arch vs Str

03 Str vs Str

04 Arch vs EL

05 Arch vs FR

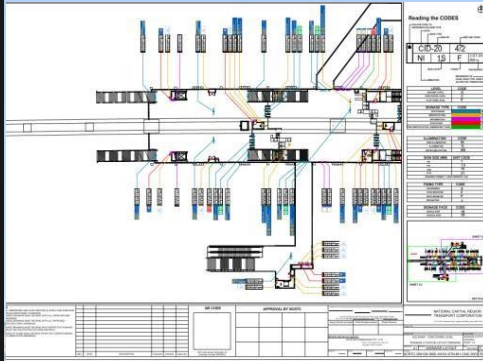
06 Arch vs ME

	Walls vs Ceiling	Clash2
	Walls vs Ceiling	Clash5
	Walls vs Ceiling	Clash9

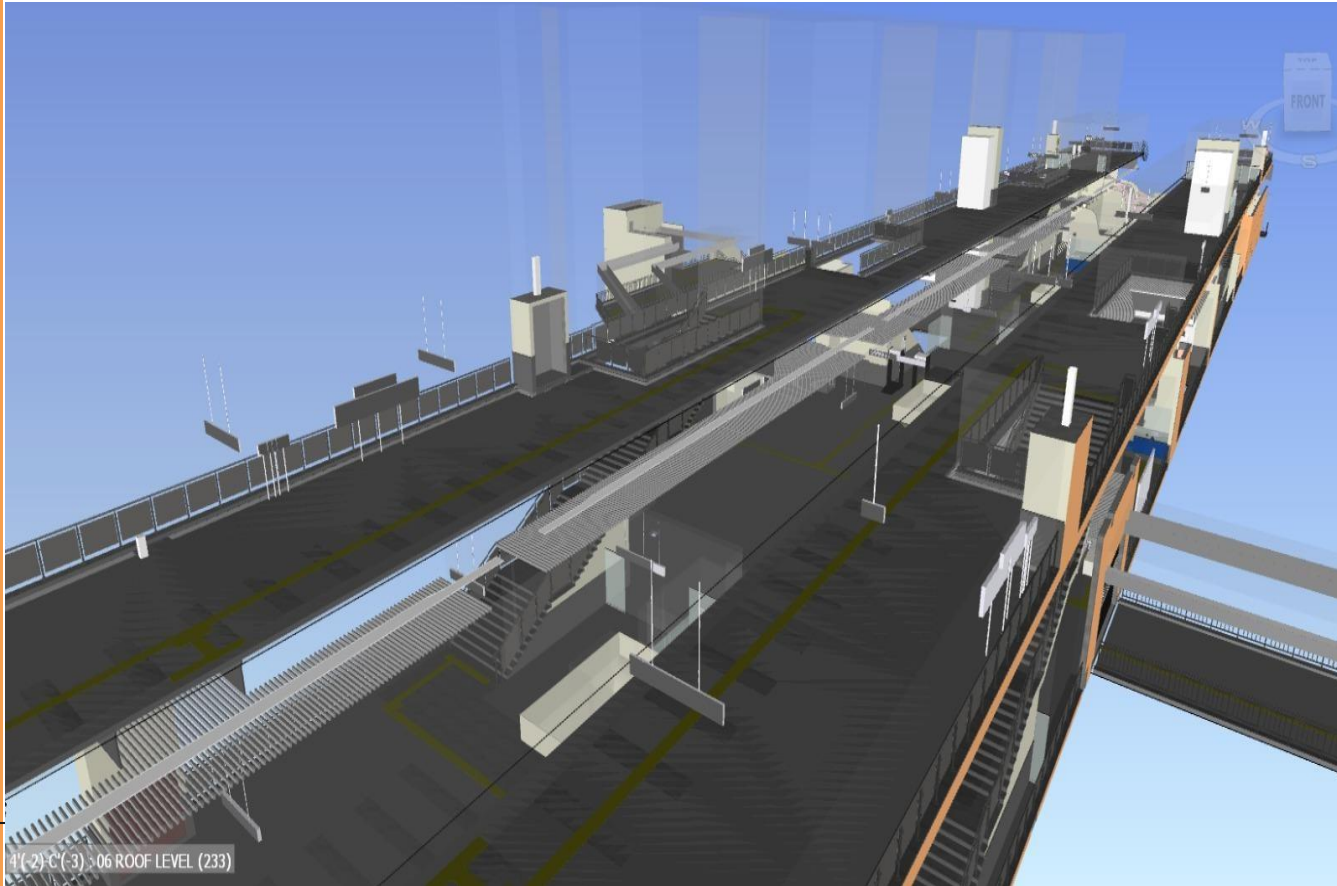


- **METRO STATIONS OF NCTRC DELHI**

- ✓ GULDHAR
- ✓ GHAZIABAD
- ✓ SAHIBABAD
- ✓ DUHAI DEPOT
- ✓ DUHAI STATION

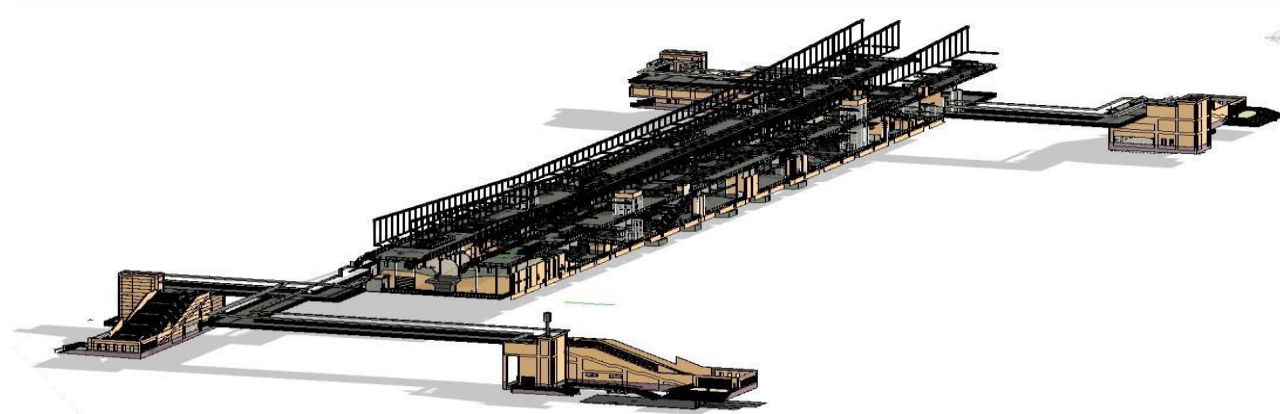


Guldhar Railway Station, NCRTC

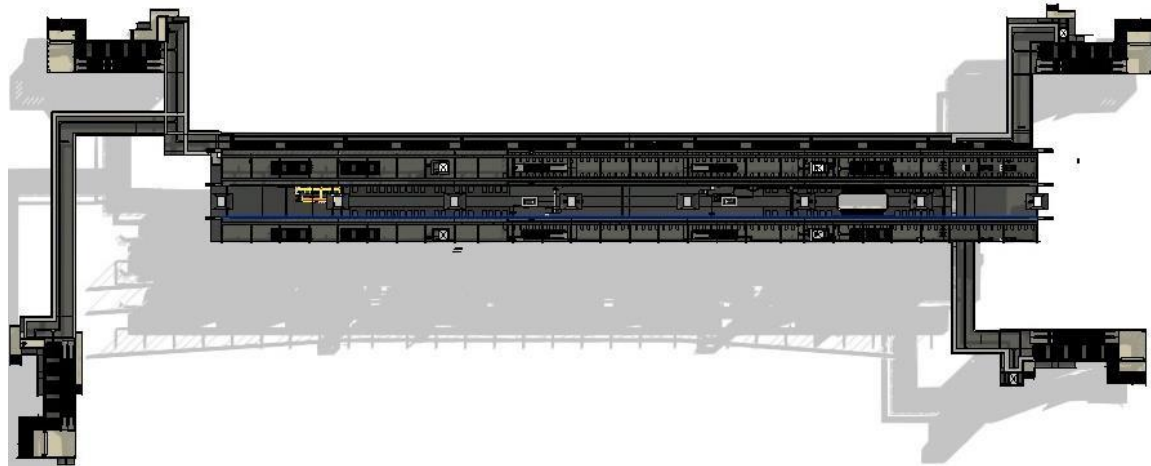


BIM modelling LOD 300

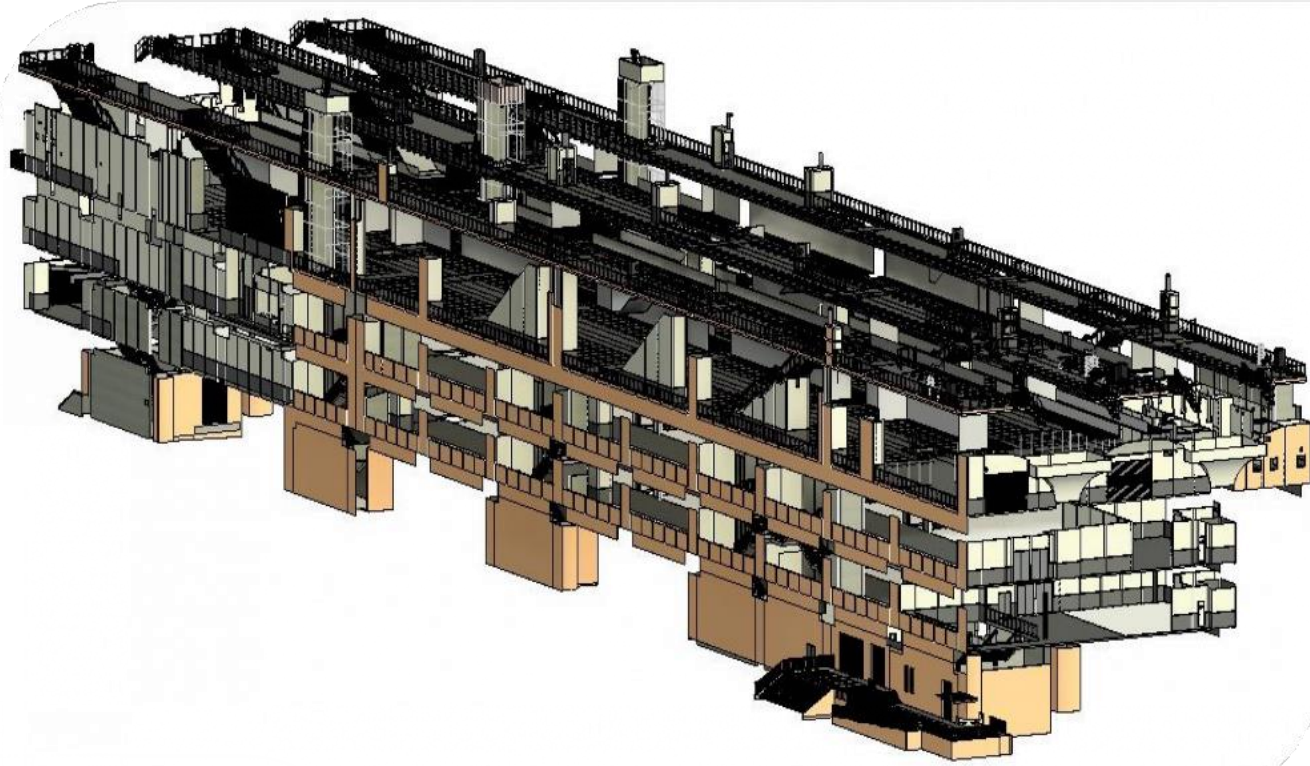
Duhai Railway Station NCRTC



BIM Modelling Services at
LOD 300

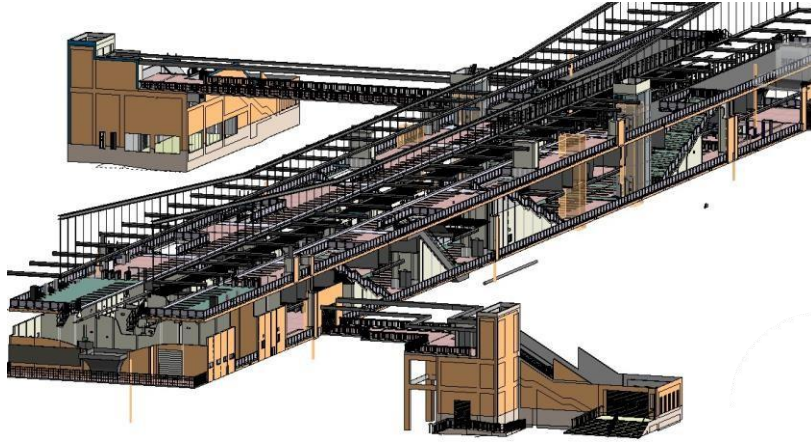


Ghaziabad Railway Station Building , NCRTC

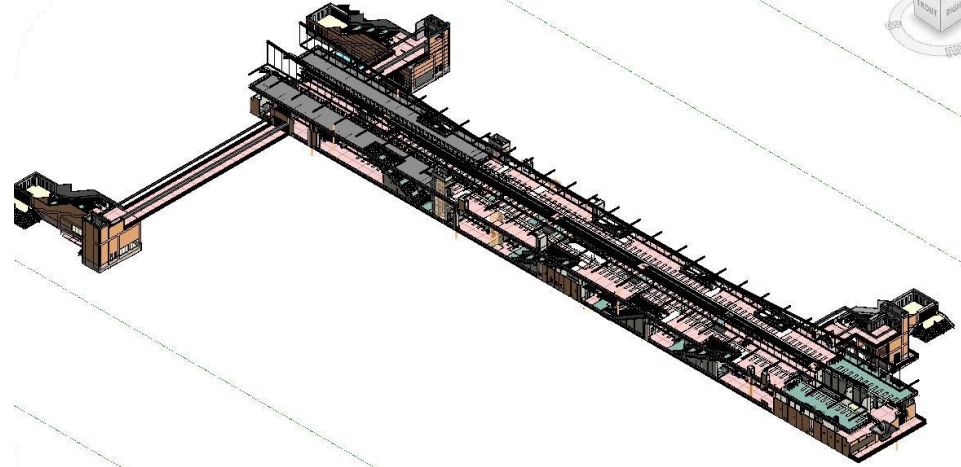


BIM modelling LOD 300

Sahibabad Railway Station

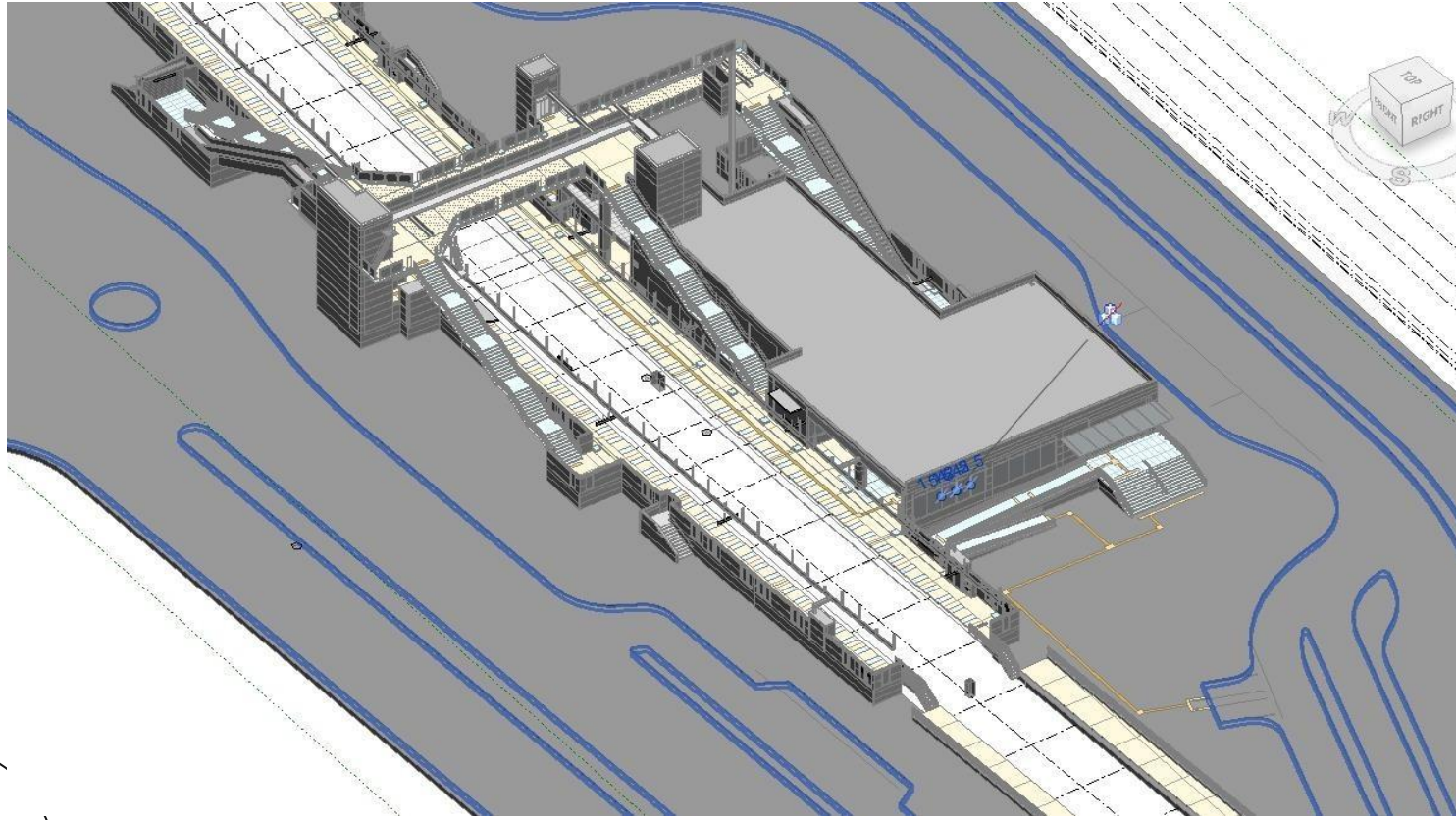


**BIM Modelling Services at
LOD 300**

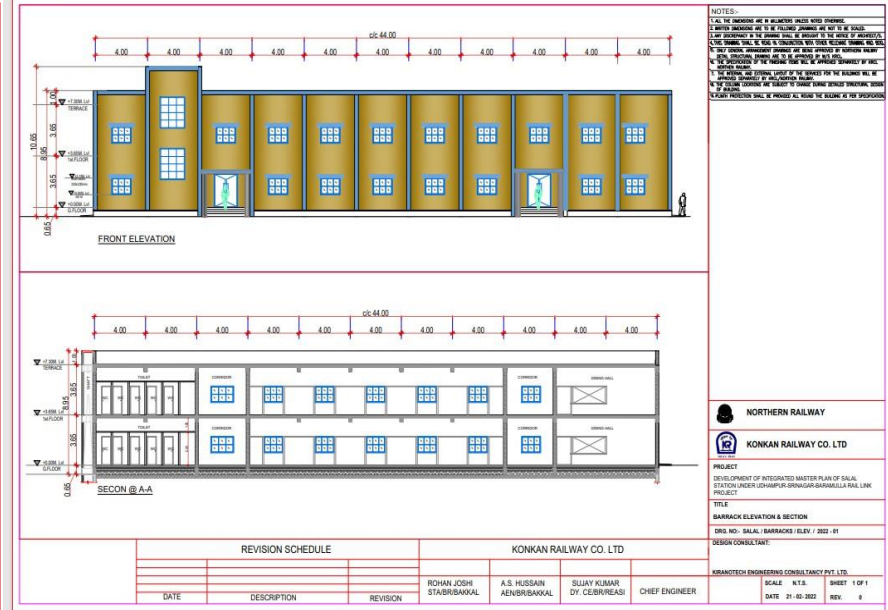
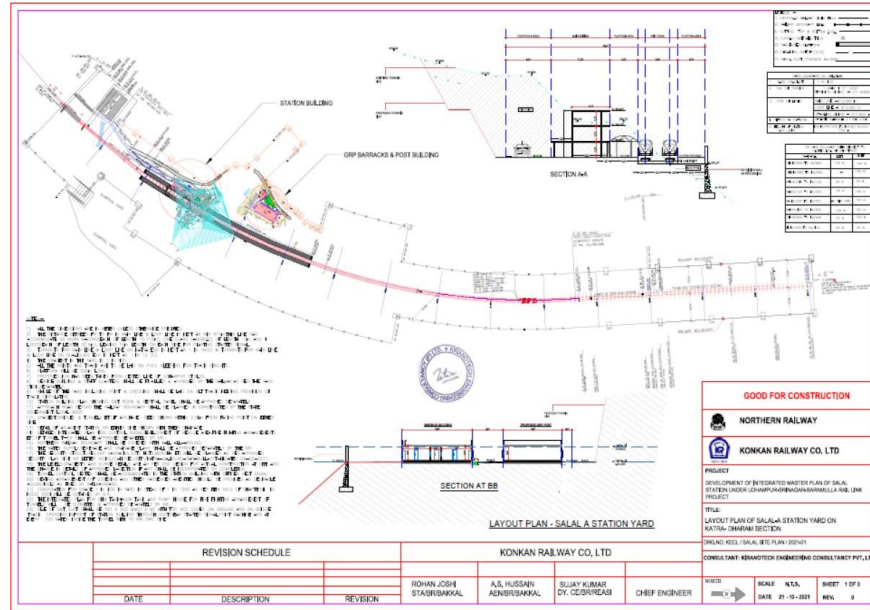


Duhai Depot Railway Station

BIM Modelling Services at LOD 300



• DEVELOPMENT OF RAILWAY STATION, J&K, INDIA



✓ REASI STATION

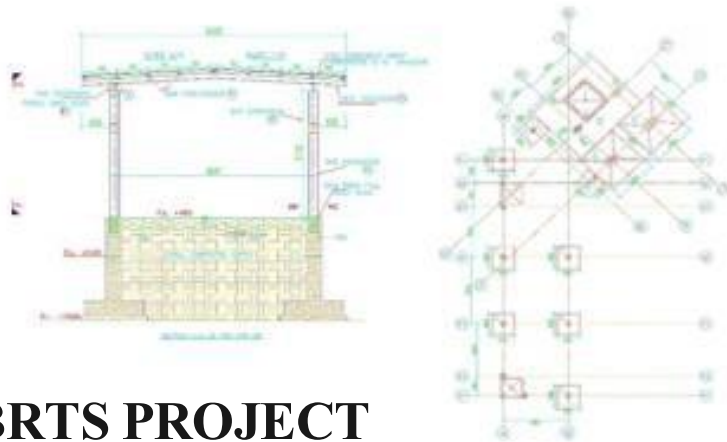
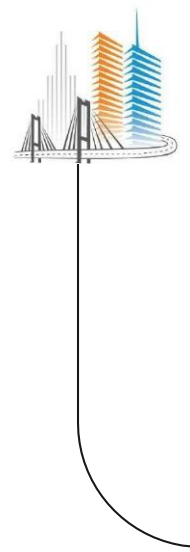
✓ SALAL STATION

✓ BASHINDADHAR

✓ DUGGA STATION

✓ SANGALDHAN





BRTS PROJECT AMRITSAR, PUNJAB



**S
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SAHARANPUR

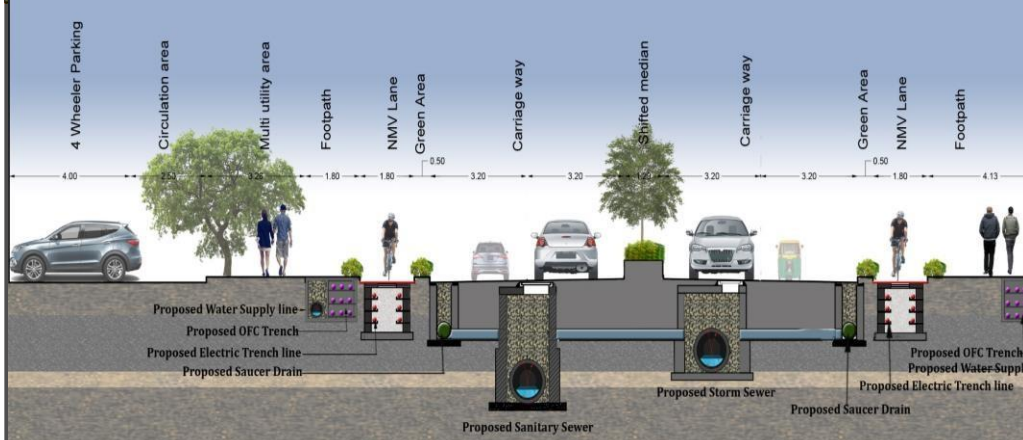
AMRITSAR

PRAYAGRAJ

LUCKNOW



• SMART CITY PROJECTS...



- **OTHER PROJECTS....**



- FULLY AUTOMATED CAR PARKING
- SMART PARKS
- SMART ROADS & JUNCTIONS

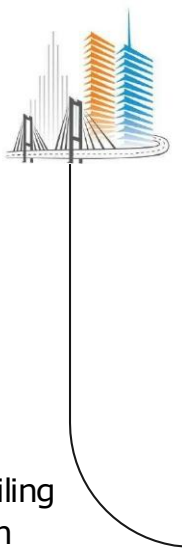
PROJECT RENDER VIDEOS



Mixed-Use Development

BIM Scope

- Construction Documentation
- Scan to BIM
- BIM Modelling (ASMEPF) and Detailing
- Clash Detection and Coordination
- Design Model Review and Audits
- Structural Services
- 3D Renderings and Walkthroughs

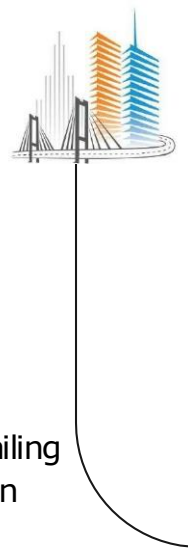




Healthcare Sector

BIM Scope

- Construction Documentation
- BIM Modelling (ASMEPF) and Detailing
- Clash Detection and Coordination
- Design Model Review and Audits
- Structural Services
- Phasing Construction
- Interior Schedule
- 3d Renderings

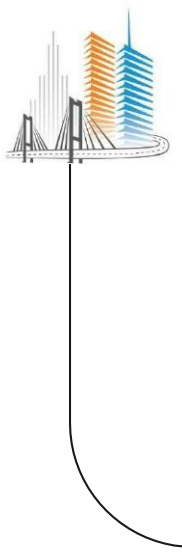




Healthcare Sector

BIM Scope

- Scan to BIM
- Construction Documentation
- Quantity Take-off / Estimation
- Design Model Review and Audits
- 3d Laser Scanning for AS Built and BIM
- Phasing Construction
- Interior Schedule
- 3d Renderings





Residential Apartments

BIM Scope

- 4D Simulation and animation
- 3D Modelling
- Construction Documentation
- Quantity Take-off / Estimation
- Design Model Review and Audits
- 3d Laser Scanning for AS Built and BIM
- Phasing Construction
- Interior Schedule
- 3d Renderings

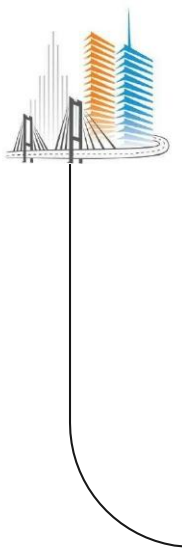




Multipurpose Venue

BIM Scope

- Massing and Site Modelling
- Material Selection
- Creating BIM Families
- Construction Documentation
- Quantity Take-off / Estimation
- Design Model Review and Audits
- 3d Laser Scanning for AS Built and BIM
- Phasing Construction
- Interior Schedule
- 3d Renderings

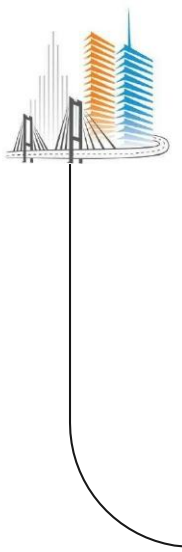




Office & Recreational

BIM Scope

- 4D Simulation and animation
- 3D Modelling
- Construction Documentation
- Quantity Take-off / Estimation
- Design Model Review and Audits
- 3d Laser Scanning for AS Built and BIM
- Phasing Construction
- Interior Schedule
- 3d Renderings





Residential Housing

BIM Scope

- Construction Documentation
- Scan to BIM
- BIM Modelling (ASMEPF) and Detailing
- Clash Detection and Coordination
- Quantity Take-off / Estimation
- Design Model Review and Audits
- 3d Laser Scanning for AS Built and BIM
- Structural Services
- 3D Renderings and Walkthroughs

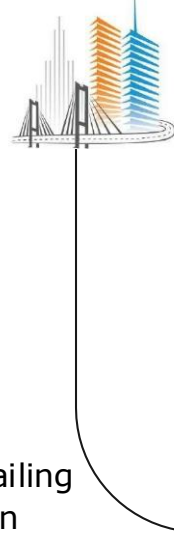
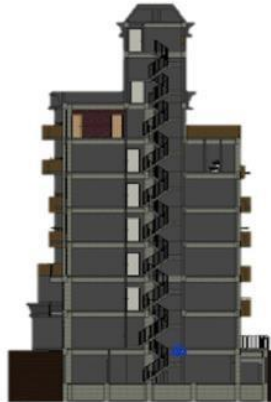




Residential Housing

BIM Scope

- Construction Documentation
- Scan to BIM
- BIM Modelling (ASMEPF) and Detailing
- Clash Detection and Coordination
- Quantity Take-off / Estimation
- Design Model Review and Audits
- 3d Laser Scanning for AS Built and BIM
- Structural Services
- 3D Renderings and Walkthroughs

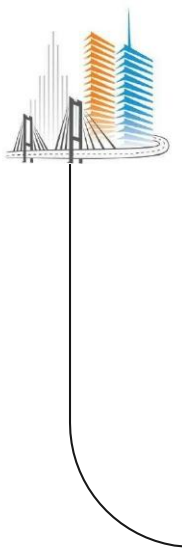




Residential & Commercial

BIM Scope

- Scan to BIM
- Construction Documentation
- Quantity Take-off / Estimation
- Design Model Review and Audits
- 3d Laser Scanning for AS Built and BIM
- Phasing Construction
- Interior Schedule
- 3d Renderings



Landscaping Project (California)



Landscaping Project (California)



Landscaping Project (California)



6D Simulation

(United States of America)



A stylized illustration of a bridge with two tall pylons and a road. In the background, there are several buildings, including a tall orange one and a blue one. The illustration is positioned at the top of the page, with a long vertical line extending downwards from the bridge area.



Our Clients

(General Contractors, Sub-contractors, and specialized trades)



Baitul Jameeh
GENERAL TRADING & CONTRACTING CO.



بومبي لمقاولات البناء ش.ذ.م.م
BOMBAY CONTRACTING L.L.C.

Aarvee associates
Aarvee Associates Ltd



Konkan Railway



DATAWORLD
think • innovate • create



**THANKS FOR YOUR
ATTENTION....**