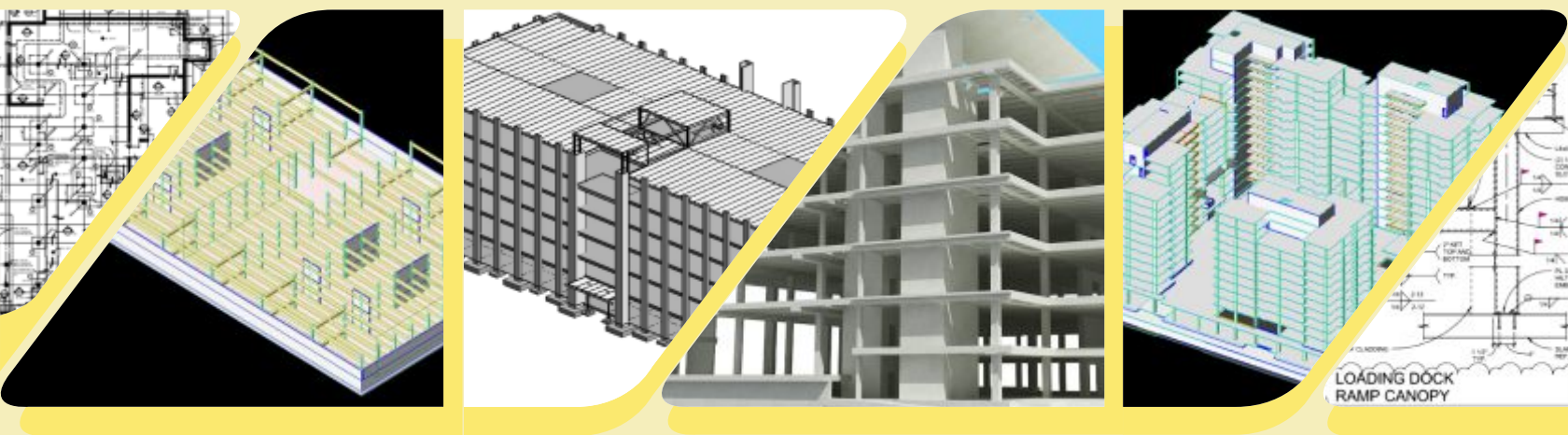


## 3D BIM SERVICES FOR STRUCTURAL ENGINEERS

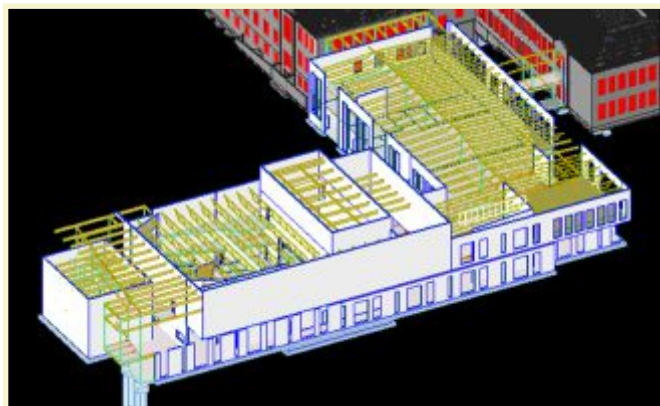


- DESIGN DEVELOPMENT & COORDINATION
- 3D MODELING
- DRAWING SET CREATION / CONSTRUCTION DOCUMENTS
- QUANTITY TAKE-OFF & COST ESTIMATE

## COMMITMENT

---

- Maximizing client value by adopting the latest technologies and innovations.
- Improving project efficiency by streamlining workflow and providing high quality services.
- Saving time by using a large global team to leverage time zone advantages.
- Reducing client costs up to 15% by harnessing a highly experienced global work force.



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## Revolutionizing Structural Engineering

Proper planning and coordination are the keys to the successful execution of projects in the construction industry. Building Information Modeling (BIM) allows stakeholders to create and examine virtual representations of the Architectural & Structural systems, and other utilities.

The virtual construct can be used to generate accurate shop drawings and address design issues before construction begins. Advancements in 3D technology and the advent of BIM have also revolutionized the Architectural, Engineering and Construction (AEC) industry.

Pinnacle Infotech has been acknowledged as the global leader in providing innovative BIM solutions. We have received several awards and recognitions from both the

industry and the government. Our process orientation & quality control is as per ISO 9001:2015, ISO/IEC 27001:2013, and Environment Management System (EMS) 14001:2015 certified.

Serving the industry for more than 20 years in 40 countries with 5500+ projects, Pinnacle acquired deep understanding of international building codes and procedures. Our global delivery system allows us to maintain constant contact with our clients making geographical separation meaningless.

We recognize the importance of effective work process management and regular communication when outsourcing services. We have developed an ideal mix of infrastructure, experience, global presence and commitment to excellence that has led to long-term relationships with more than 1150 clients worldwide.



## Benefits of implementing BIM for Structural Engineers

- **VISUALIZATION:** Streamline communication with 3D visualization among all stakeholders for quick decision making during design and pre-construction phase.
- **EFFICIENCY:** Eliminate RFI's, work stoppages and rework by checking the accuracy and completeness of drawings before starting construction on-site/off-site.
- **QUALITY:** Improving Quality by producing accurate Drawings directly from the 3D BIM model.
- **SAVINGS:** Better usage of resources, better quality drawings and reduced rework and wastage, all of which translate into lower costs.
- **PROJECT MANAGEMENT:** Material quantity and Drawings with 3D visualization enable a better look at "The Bigger Picture" and aid in the review, scheduling and monitoring of each project.

Our clients have reported cost savings up to 15% by successfully implementing BIM.



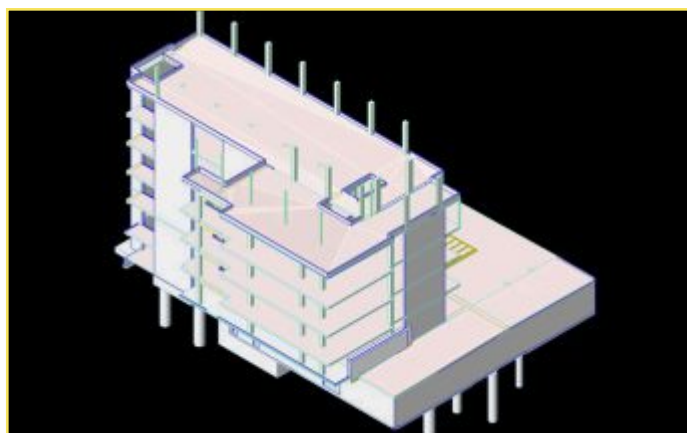
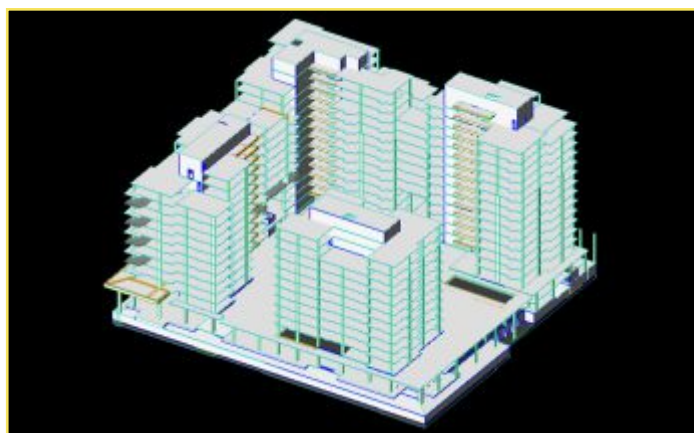
## BIM Services for Structural Engineers

Pinnacle provides accurate, reliable and cost effective solutions for Structural Engineering firms. We specialize in the virtual construction of 3D BIM models using a range of inputs including contract documents, hand sketches, redlines and design documents. During the modeling, we validate the design for constructability, performance and maintenance of various wood, steel and concrete structures like column size, structural openings, beam depths and clashes.

Our structural drafting & detailing services comply with international codes and structural standards as applicable for projects. We have an ISO certified process to document the clients' standards and preferences to ensure complete compliance.

We produce high quality structural drawings across domestic and international markets in the AEC industry. We make a comprehensive analysis of the detailed structural elements like columns, beams and floors for delivering project in a risk free environment.

Our Drafting and Detailing services are intended for High Rise RCC structures, Structural Steel, Industrial Sheds, Plants, Stacks, Mills, Commercial Buildings, Airports, Theatres, Warehouses, Hospitals, Parking Garage, Residential Complexes, Condos and Villas. We are platform independent and work on major software applications including AutoCAD, Revit and Tekla.



### Pinnacle's BIM Services for Structural Engineers include:

1. Design Development & Coordination
2. 3D Modeling and Detailing
3. Drawing Set Creation/Construction Documents
4. Quantity Take-off & Cost Estimation

#### 1. Design Development & Coordination

Pinnacle has the competence and technology to assist Structural Engineering Firms in the design development stage. Our dedicated team of skilled personnel is experienced in interacting with engineers to understand their design-intent and provide value-added support as the design evolves from conceptual /schematic stage to construction stage.

The inputs required by Pinnacle include any or all of the following:

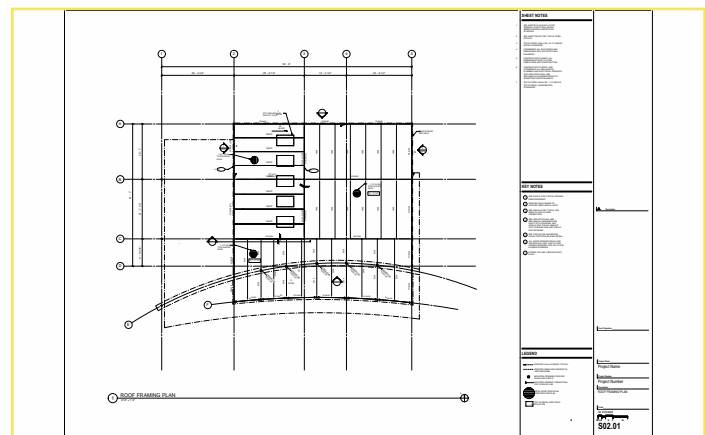
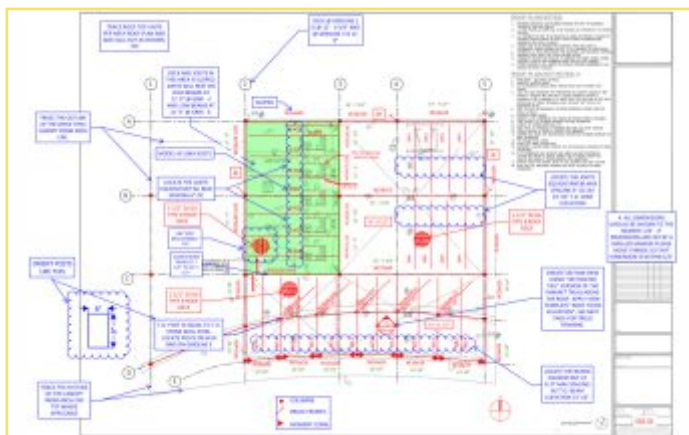
- Conceptual drawings
- Hand-sketches
- Red-Line Mark-ups
- Single Line Diagram
- 2D Drawings

Pinnacle's engineers translate designers' thoughts, expressed through the aforesaid inputs, into buildable information in the form of 2D drawings and/or 3D models.

The above process passes through one or more of the following stages of Design Evolution:

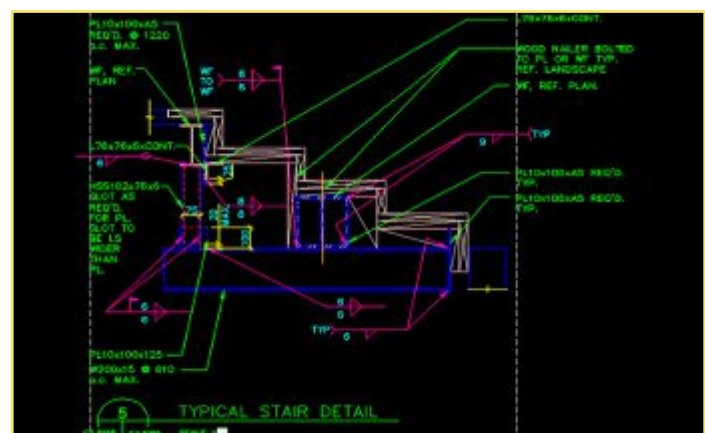
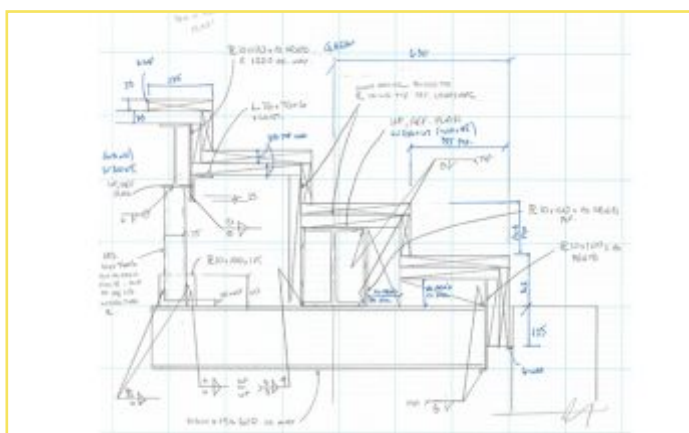
## Schematic Design:

Schematic design is an initial design scheme that seeks to define the general scope of the project, including scale and relationships between building components. The engineer's/ designer's sketches interpreting the client's desired functional relationships between various activities are translated to Revit model. At this stage, the description is in terms of a set of integrated ideas and concepts about what the proposed system should do, behave and look like. The model is used for preliminary studies like overall project phasing. Analysis based on overall systems can be performed and quantities based on specific elements can also be obtained.



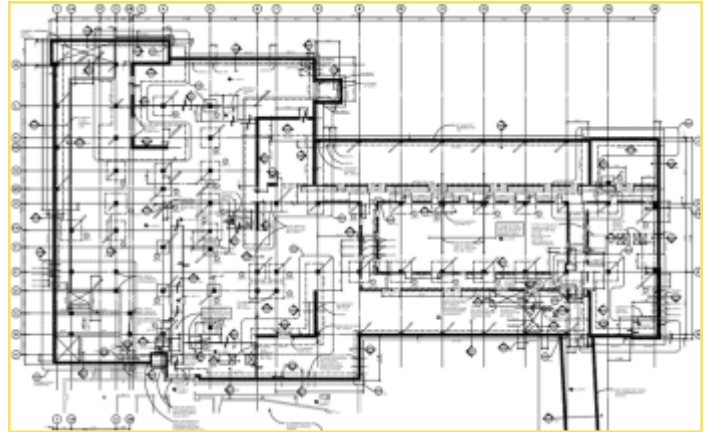
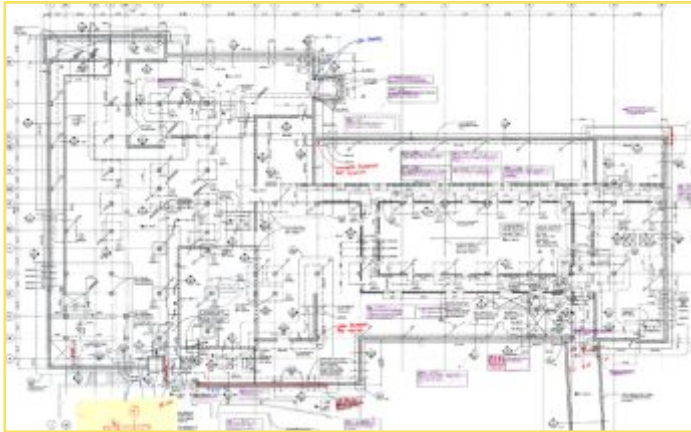
## Detailed Design:

Detailed Design is the stage following schematic design where the schematic design decisions are worked out in greater details. The details get reflected in the Revit model. This also provides the client with drafted to-scale drawings, illustrating how the project would look like after the construction gets over. The model can be leveraged for the generation of traditional Construction Documents and Shop Drawings and can be used for the analysis of Clash & Cost.



## Construction Documentation:

Construction Documentation is a bridge between building design and physical building form. It encompasses the preparation of drawings and specifications that set forth the detailed requirements for the construction of a building project. The Models include elements that are accurate in terms of size, shape, location, quantity and orientation with complete fabrication, assembly and detailing information. Analysis can also be performed at this stage such as Clash Detection, Sequencing & Cost.



## 2. 3D Modeling

Proper planning and coordination are the keys to the successful execution of projects in any industry. Advancements in 3D technology and the advent of Building Information Modeling (BIM) have revolutionized the Structural Engineering firms. BIM involves the creation and use of a coordinated 3D model by linking it to intelligent databases for a building project. This technology, when applied to the Structural Engineering firm enables seamless collaboration, enabling quick decision making, accurate construction documents and better construction.

We generate accurate 3D Models for Wood, Steel & Concrete from an approved set of Structural Drawings. Our BIM solutions are efficiently used for structural design, detailing and prefabrication.

Working in BIM environment helps us to easily handle complex structural design projects, including wood framing and modeling. BIM usage has helped us produce several reports for enhancing production.

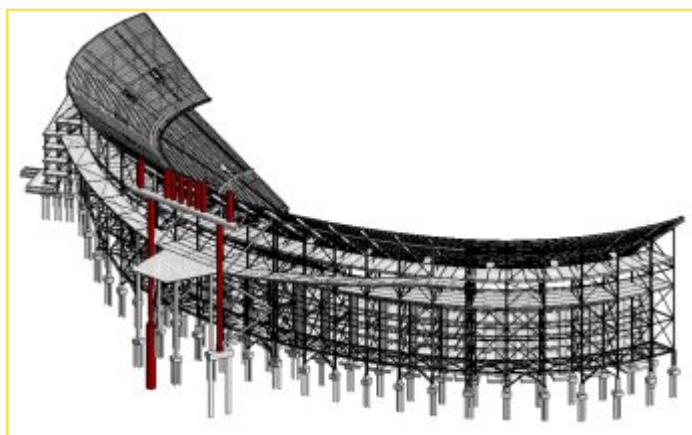
**Pinnacle offers 3D BIM Modeling for the following structures:**

Reinforced Cement Concrete Structures like Buildings, Tanks, Steel Plate Girder, Industrial Sheds, Gantries & Truss Girder, Wooden Structures like Sheds & Residential Structures, Steel & Composite Structures  
Pre-stressed and Post-tensioned Structures like Parking Structures.

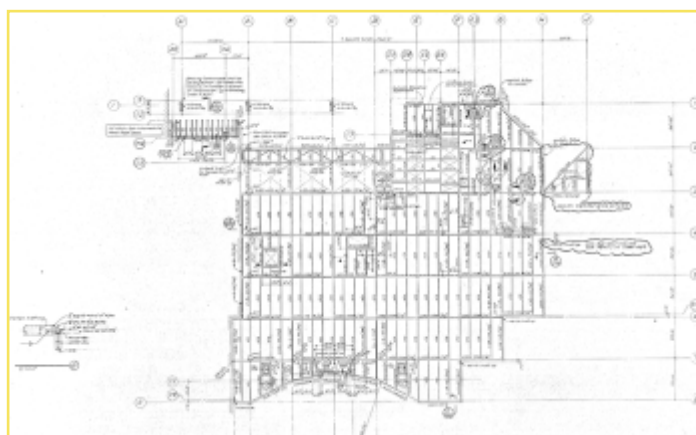




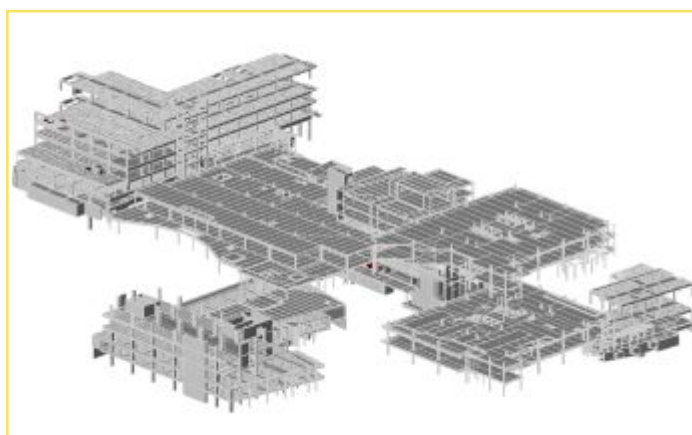
Input sample



Output sample



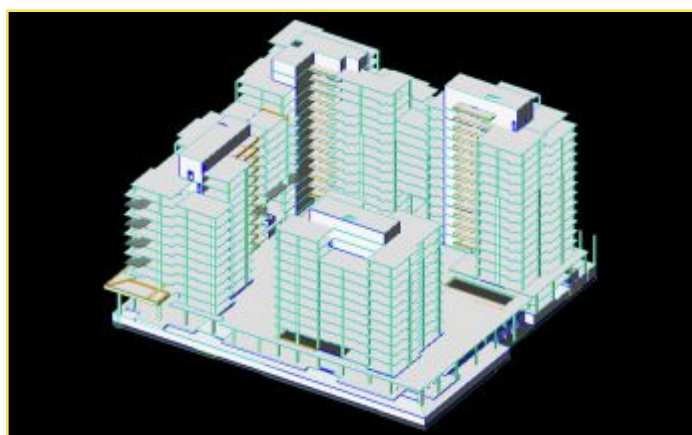
Input sample



Output sample



Input sample



Output sample

### 3. Drawing Set Creation/Construction Documents (CD/Permit Sets)

Our construction drawings provide expressive representation of a building with a chronological description of each phase of construction like floor plans, elevations, reflected ceiling planes and other details. We apply construction drawings or as-built drawings to residential and commercial works like renovations or new structure additions and our clients appreciate the flexible and customizable solutions we create. Our 2-dimensional construction drawings produced from 3d models help to make building plan estimate and review. Pinnacle produces parts, assembly and DXF drawings for complex wooden structures from 3D models.

Our Construction Drawings serve the following areas:

- 2D Drafting & Detailing
- Portable Structures
- As-Built Construction

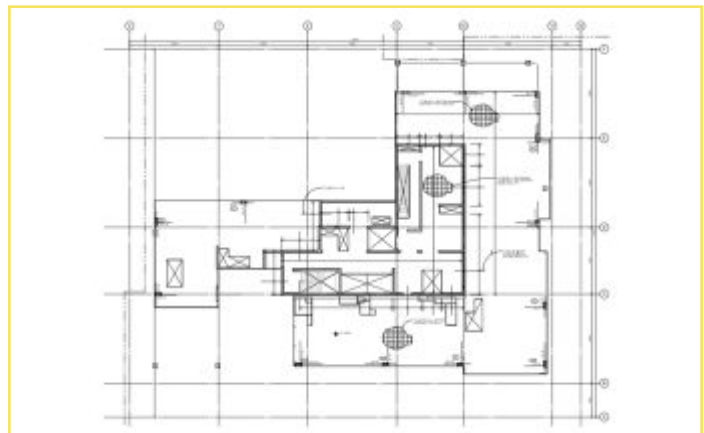
We generate and deliver the following drawings from 3D BIM Model:

- Rebar/Post Tension Detailing
- Wood Structure Drawings
- Sections, Details & Elevations
- Concrete Structure Drawings
- Steel Structure Drawings
- Schedule – Column, Beam, Slab

#### Reinforcement Drawing



Input sample

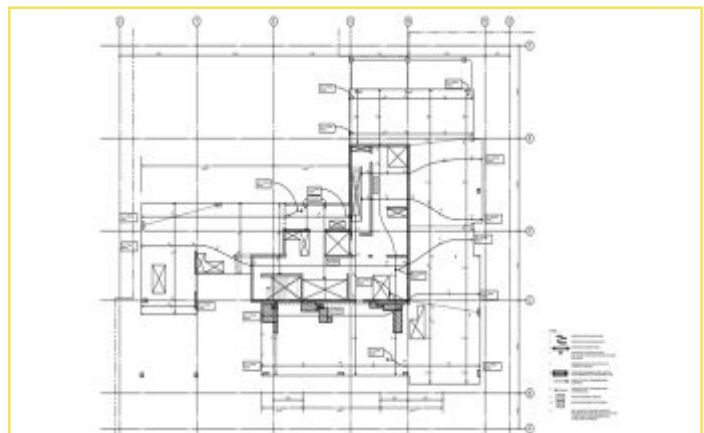


Output sample

#### Post Tensioning



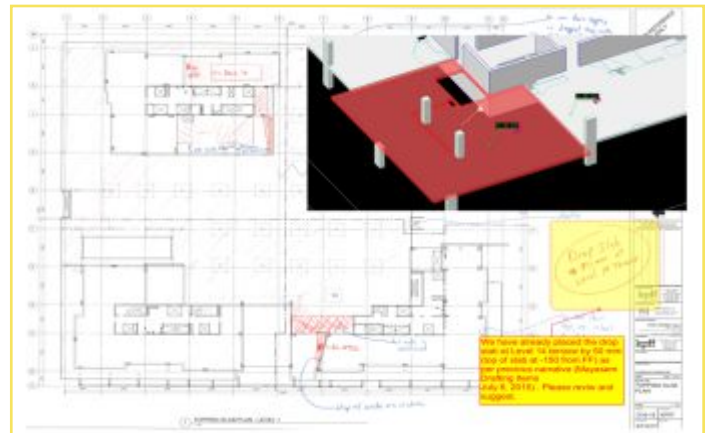
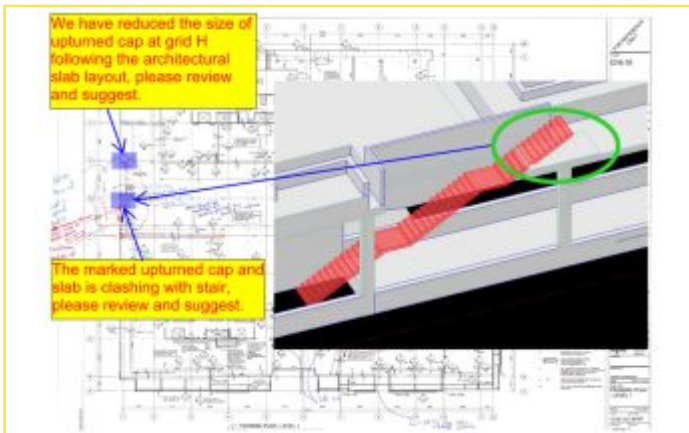
Input sample



Output sample




## Request for Information



## 4. Quantity Take-off & Cost Estimate

BIM helps to accurately calculate the quantity measures of all materials for Structural Engineering firms. These quantities are automatically updated whenever any change is made in the BIM model. Our quantity take-off and estimation services for construction & pre-construction planning and coordination help all project stakeholders to enhance productivity and carry out constructability analysis.

We plan, prepare and update construction project schedules and capitalize on early project decision-making opportunities to improve facility design, construction and life-cycle performance. Project stakeholders can see the advantage in integrating full BIM data with business functions such as procurement, contract management, advanced document management, project cost control accounting, project management, budget evaluation and project risk management.

BILLS OF QUANTITIES									
COLLEGE OF MEDIA AND COMMUNICATION				STRUCTURAL CONCRETE WORK					
MAIN BUILDING									
GROUND FLOOR (Q.N.D. 9.00)									
ITEM	TYPE	DESCRIPTION	Grid Location	LENGTH (m)	AREA	UNIT	VOLUME	UNIT	
1	Wall	150mm Conc. Curb Wall	EJ-BA & B2	26.7	3.66	m <sup>2</sup>	0.55	m <sup>3</sup>	
2		150mm Conc. Curb Wall	EJ.1-BA & B7	25.13	3.46	m <sup>2</sup>	0.52	m <sup>3</sup>	
3		180mm Conc. Curb Wall	A3-A9 & AK	23.09	2.31	m <sup>2</sup>	0.42	m <sup>3</sup>	
4		200mm Conc. Curb Wall	A3-A6 & AD	20.78	3.15	m <sup>2</sup>	0.63	m <sup>3</sup>	
5		200mm Conc. Curb Wall	AA.7-AD & A6	22.7	3.38	m <sup>2</sup>	0.68	m <sup>3</sup>	
6		200mm Conc. Curb Wall	A3-A6 & AA.7	24.45	3.7	m <sup>2</sup>	0.74	m <sup>3</sup>	
7		200mm Conc. Curb Wall	A3-A9 & AH	17.3	1.74	m <sup>2</sup>	0.35	m <sup>3</sup>	
8		200mm Conc. Curb Wall	AA.7-AB & A1	5.38	6.63	m <sup>2</sup>	1.32	m <sup>3</sup>	
9		200mm Conc. Curb Wall	AA-AA.8 & A1	4.42	5.25	m <sup>2</sup>	1.05	m <sup>3</sup>	
10		200mm Conc. Curb Wall	AB-AC.7 & A1	12.42	15.3	m <sup>2</sup>	3.06	m <sup>3</sup>	
11		200mm Conc. Curb Wall	AC.7-AF & A1	20.88	25.72	m <sup>2</sup>	5.14	m <sup>3</sup>	
12		200mm Conc. Curb Wall	AF-AG & A1	9.5	11.7	m <sup>2</sup>	2.34	m <sup>3</sup>	
ITEM	TYPE	DESCRIPTION	Grid Location	BASE LEVEL	BASE OFFSET (m)	TOP LEVEL	TOP OFFSET (m)	VOLUME	UNIT
1	Column	250 x 250mm	C7.7-CA	GROUND FLOOR (Q.N.D. 9.00)	1.51	GROUND FLOOR (Q.N.D. 9.00)	-0.74	0.13	m <sup>3</sup>
2		250 x 250mm	C8-CA	GROUND FLOOR (Q.N.D. 9.00)	2.05	GROUND FLOOR (Q.N.D. 9.00)	-0.74	0.17	m <sup>3</sup>
3		250 x 250mm	C8-C8.6 & CA	GROUND FLOOR (Q.N.D. 9.00)	2.59	GROUND FLOOR (Q.N.D. 9.00)	-0.74	0.2	m <sup>3</sup>
4		250 x 250mm	C8.6-CA	GROUND FLOOR (Q.N.D. 9.00)	3.13	GROUND FLOOR (Q.N.D. 9.00)	-0.74	0.23	m <sup>3</sup>
5		250 x 250mm	C8.6-C9 & CA	GROUND FLOOR (Q.N.D. 9.00)	2.04	GROUND FLOOR (Q.N.D. 9.00)	-0.74	0.17	m <sup>3</sup>
6		350 x 350mm	CA-CB & C1	GROUND FLOOR (Q.N.D. 9.00)	0.8	FIRST FLOOR (Q.N.D. 13.50)	-1.44	0.26	m <sup>3</sup>
7		350 x 350mm	CA-CB & C1	GROUND FLOOR (Q.N.D. 9.00)	0.8	FIRST FLOOR (Q.N.D. 13.50)	-1.94	0.19	m <sup>3</sup>
8		350 x 350mm	CA-CB & C1	GROUND FLOOR (Q.N.D. 9.00)	0.8	FIRST FLOOR (Q.N.D. 13.50)	-2.56	0.12	m <sup>3</sup>
9		350 x 350mm	CA-CB & C1	GROUND FLOOR (Q.N.D. 9.00)	0.8	FIRST FLOOR (Q.N.D. 13.50)	-2.99	0.06	m <sup>3</sup>
10		350 x 350mm	E6.5-EA	GROUND FLOOR (Q.N.D. 9.00)	-0.19	FIRST FLOOR (Q.N.D. 13.50)	-2.51	0.12	m <sup>3</sup>
11		350 x 350mm	E5-E6 & EA	GROUND FLOOR (Q.N.D. 9.00)	-0.19	FIRST FLOOR (Q.N.D. 13.50)	-1.7	0.21	m <sup>3</sup>
12		350 x 350mm	E4.5-E5 & EA	GROUND FLOOR (Q.N.D. 9.00)	-0.19	FIRST FLOOR (Q.N.D. 13.50)	-0.88	0.32	m <sup>3</sup>
13		350 x 350mm	E4.5-EA	GROUND FLOOR (Q.N.D. 9.00)	-0.19	FIRST FLOOR (Q.N.D. 13.50)	-1.05	0.3	m <sup>3</sup>
14		350 x 350mm	E4-E4.5 & EA	GROUND FLOOR (Q.N.D. 9.00)	-0.19	FIRST FLOOR (Q.N.D. 13.50)	-1.28	0.28	m <sup>3</sup>
15		350 x 350mm	E3.5-E4 & EA	GROUND FLOOR (Q.N.D. 9.00)	-0.19	FIRST FLOOR (Q.N.D. 13.50)	-1.28	0.28	m <sup>3</sup>
ITEM	TYPE	DESCRIPTION	Grid Location	LEVEL	HEIGHT OFFSET FROM LEVEL (m)	AREA	VOLUME	UNIT	
1		400 x 1650	C1-CA	GROUND FLOOR (Q.N.D. 9.00)	0.8	0.8	2.64	m <sup>3</sup>	

## Quality Control Process

Our QC process is ISO 9001:2015 certified and managed by an independent QC team. We have implemented Environment Management Systems (EMS) 14001:2015.

Ensuring quality is a group effort and our dedicated QC team is led by a highly qualified and experienced Manager in MEP Coordination and Quality Control.

The entire QC process is handled in three phases:



### QC Check Phase I

- The model or drawing is plotted on paper and a preliminary grid by grid check is done comparing it with the original input documents.
- The project team leader sends a status report to the QC Department to begin QC Phase II.

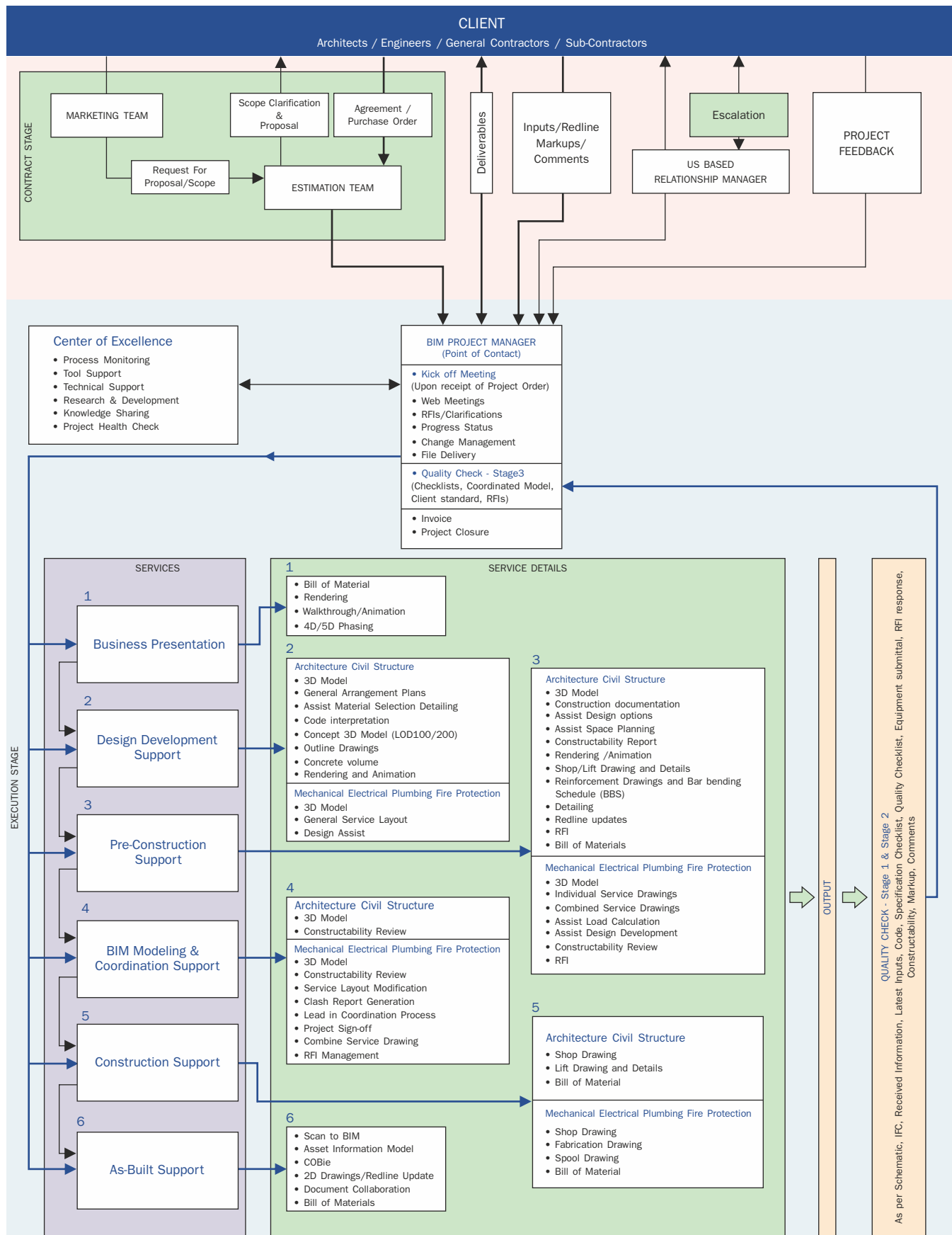
### QC Check Phase II

- The QC Team performs a more detailed comparison of the Drawings/3D Model (output) against the Inputs. Specific Checklist is prepared to review/check the deliverables. The main objective is to review, identify and address the following:
  - ▶ Missing data
  - ▶ Mismatches with the Input documents
  - ▶ Construction point of view.
  - ▶ Aesthetics and spell checks
  - ▶ Specific standards being followed
  - ▶ Miscellaneous issues
- The QA/QC Team continuously interacts with the Project Lead and other team members to resolve all technical issues related to the project.

### QC Check Phase III

- The Project Manager conducts the pre-shipment check before sending them to the client.

# Work Process





## Why Pinnacle?

Pinnacle is the global leader in providing innovative BIM services. Our in-house team of 1500+ experienced Architects, Engineers, and BIM professionals provide end-to-end solutions to discerning clients around the world. We have 20+ years of global experience, during which we have collaborated with several leading contractors on BIM projects across categories such as specialty hospitals, stadiums, universities, dams, apartment complexes, hotels, casinos, large retail center, high school, airport, commercial buildings, convention center, high rise towers, and industrial projects.

### Quality Output

Our Quality Control Team is led by employees who have 20+ years of experience. Our process orientation & quality control is in line with ISO 9001:2015 and ISO 14001:2015 standards. Our Preconstruction & prefabrication reviews with RFI generation help clients make better use of manpower and improve the quality of construction, reducing rework and wastage. Detailed material BOQ & Shop Drawings with 3D visualization enable a better look at "The Big Picture" and aid in the review, scheduling, and monitoring of each project.

### Fast Turnaround

Our skilled team of professionals can provide quick turnarounds on complex projects. Pinnacle has completed several large-scale projects across multiple verticals.

### High-tech Infrastructure

Our 3,80,000 sq. ft. world-class production facility is equipped with high-end workstations, advanced servers with real-time backup, and a 24\*7 high-speed data and voice network. We have an uninterrupted power supply and an advanced security system by CISCO to ensure a trusted and reliable client data protection mechanism.

### Competitive Cost

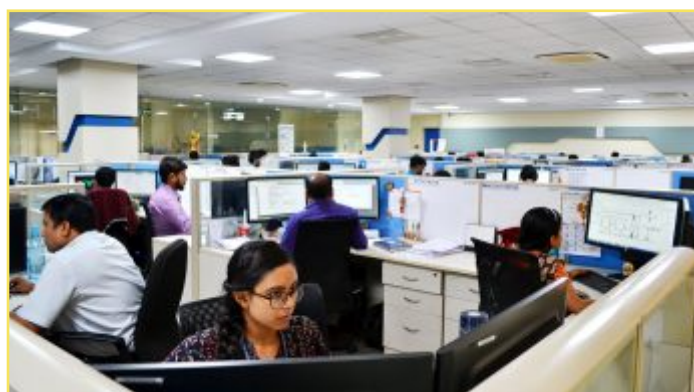
Clients rely on us for our top-of-the-line services at reasonable rates. We help clients assemble projects in a virtual environment for identifying and correcting potential problems before construction. We offer cutting-edge advantage in terms of Building Information Modeling services, facilitating project coordination, collaboration, asset management, risk mitigation, logistic planning and cost optimization.

### Technical Strengths

We are software independent, our professionals use the latest BIM software: Autodesk Suite (Revit - all versions), AutoCAD Architecture, MicroStation, Navisworks, Inventor, AutoCAD Civil 3D, Plant Design Suite, Pro/Engineer, SysQue, All Plan, Adobe Photoshop, Adobe Illustrator, Adobe After Effects, 3DS Max, Tekla Structure, SolidWorks, Autodesk Fabrication Suite, SketchUp, Bluebeam, PIPENET, and other design software. As we have a deep understanding of global and regional codes and standards, we have ensured that our Quality Management System is as per ISO 9001:2015.

### Global Presence

Pinnacle has offices around the world (USA, UK, UAE, ITALY, INDIA - Durgapur, Kolkata & Jaipur) enabling us to serve our clients around the clock.



### Communication

Pinnacle's Project Management team is available to clients through several communication channels including:

1. Global telephone networks for instant communication
2. Email (on Google server) for reports and interactions
3. Video and teleconferencing for presentations and conversations
4. Web conferences with US-based phone systems
5. Engagement of US-based Relationship Managers

## Testimonial



"I have been pleased with the work the Pinnacle team has done for us so far. The work is done promptly and completely to a satisfying level."

*Michael Williams | Catena Consulting Engineers*



"We were very satisfied with the work done by Pinnacle team."

*Geoff Bomba | Forell Elsesser Associates*



"This was complex project with a lot of architect driven changes throughout the process. There were hiccups, which we expected, but Pinnacle worked through them all with us."

*John J Tracy | McNamara Salvia Structural Engineers*



"Responsive to comments and questions and work was delivered on time. Provided services met expectations. We were very satisfied."

*Kurt Boyd | RBA Structural Engineering*



"Everything worked very well for us. We will definitely be using your services in the future."

*Milind Joglekar | Stearn Joglekar Ltd.*



"Well done Pinnacle Team, you guys are awesome. Please thank everyone for working so hard to get through all of that."

*BIM Director | Reputed Structural Engineering firm, with branches all over US.*



"Quick response time with daily model updates from the Pinnacle team helped to make the process very smooth. Easy to use RFI process with quick feedback."

*William Lovallo (Vice President) | LeMessurier Consultants (Boston, MA)*



"Overall good experience. Complicated Job with keeping track of many design changes and RFIs that were issued on the job. Pinnacle performed very well with the large amount of changes on this hospital project. All the section views and keys/legends provided on the shop drawings meet expectations and were outstanding. The most important thing is that when it came to the end of the project Pinnacle stepped up to and produce the needed changes in a timely manner."

*Jayson Kaze | Urata & Sons*



"My experience in working with Pinnacle has been very good. Pinnacle assisted Baker on a very complex and demanding project and Pinnacle's hard work, dedication and attention to detail really contributed to our team's success on the project. Thanks to the Pinnacle team members for their hard work, dedication, and quality work that they provided to Baker on this project."

*Kevin McGuire | Baker Concrete Construction, Inc.*



"Working with Sujit was very easy. We never once worried that deadlines wouldn't be met, or that the quality was lacking in anyway. His communication with us instilled confidence."

*Daniel Fahmi | Baker Concrete Construction, Inc.*



"Having worked with Pinnacle for a year now, we have had very positive results. So far Pinnacle is one of the best outsourcing solutions we've worked with."

*Aaron Wagner | AHL*



"Drawing review comments were regularly incorporated into revised drawings properly. The timely incorporation of updates was good. When the AutoCAD glitch occurred and line weights and dimensions were pixelated, your team worked to find a solution. Weekly design meetings worked very well to ensure comments were fully understood."

*Crosby Lovell | Pacific Structures Inc*

## Project Snap Shots

### BIM and Structural Engineering Services

SECTOR LOCATION	CLIENT	PROJECT NAME DETAILS	TIME LINE	PROJECT AREA MANPOWER
Hotel Miami, FL	Structural Engineer	<b>Boca Falls-Plot One</b> Our scope of work for the project included creation of Civil & Structure trade 2D Drawing preparation.	November 2020	85,700 sq ft 6 Engineers
Hotel Stockton, CA	Structural Engineer	<b>Hampton Inn and Suites</b> Our scope of work for the project included creation of 3D models for Structure trade and 2D Drawing preparation.	November 2020	61,700 sq ft 4 Engineers
Senior Living Community Jacksonville, FL	Structural Engineer	<b>Lumen Park at Baymeadows (128 unit Senior Living Community)</b> Our scope included development of a structural 3D model from arch layout reference, per Engineers Instruction and to provide support for the creation of Coordinated permit set drawings (57 number of drawing set)	September 2020	90,492 sq ft 6 Engineers
Commercial Minnesota USA	Structural Engineer	<b>Bank Of America</b> Our scope of work was to create structural 3D model for new construction & co-ordination with the architectural drawing. Created detail drawing as well.	August 2020	5,112 sq ft 2 Engineers
Educational Salem, Oregon USA	Structural Engineer	<b>West Salem High School</b> Our scope of work was to create structural as-built 3D model for five buildings & co-ordination with the architectural model.	May 2020	295,922 sq Ft 6 Engineers
Hotel Sacramento USA	Structural Engineer	<b>AC Hotel Sacramento</b> Our scope of work was to create structural 3D model for new construction & create permit drawing set.	February 2020	90,926 sq ft 4 Engineers
Educational Pocatello USA	Structural Engineer	<b>Pocatello High School - Addition &amp; Reno.</b> Our scope of work was to create structural 3D model, sheet creation, detail drafting for design development set.	February 2020	25,228 sq ft 3 Engineers
Healthcare Jacksonville, FL	Structural Engineer	<b>Baptist Clay Medical Campus</b> Our scope included development of a structural 3D model from arch layout reference, per Engineers Instruction and to provide support for the creation of Coordinated permit set drawings(76 number of drawing set)	January 2020	150,000 sq ft 8 Engineers
Educational Los Angeles, USA	Structural Engineer	<b>UCLA School Of Law</b> Our scope of work was to create structural as-built 3D model for four buildings & co-ordination with the architectural drawing.	November 2019	318,300 sq ft 6 Engineers
Commercial Office Boise USA	Structural Engineer	<b>11TH &amp; IDAHO</b> Our scope of work was to create structural 3D model, sheet creation, detail drafting for design development to construction document set.	November 2019	191,000 sq ft 4 Engineers



## Project Snap Shots

### BIM and Structural Engineering Services

SECTOR LOCATION	CLIENT	PROJECT NAME DETAILS	TIME LINE	PROJECT AREA MANPOWER
Office, Observation, Restaurant  Boston, Massachusetts USA	Structural Engineer	<b>Prudential Tower</b> Our scope of work was to create structural as-built 3D model above 50th floor.	November 2019	1.2 million sq ft 6 Engineers
Multi-phased corporate laboratory campus  Emeryville, CA	Structural Engineer	<b>Chiron Life Sciences Center Phase I Bldg.</b> Our scope of work for the project included creation of 3D models for Structure and Architecture trade.	September 2019	293,358 sq ft 14 Engineers
Commercial Freemont, CA	Structural Engineer	<b>Warm Springs Podium</b> Our scope of work for the project included creation of 3D models & 2D drawings of structure.	September 2019	285,492 sq ft 10 Engineers
Healthcare New Orleans, LA	Structural Engineer	<b>LSU Health Science Center</b> Our scope of work for the project included creation of 3D models Structure and Architecture. Basic MEP coordination done by us and 2D drawings creation for above ceiling elements.	August 2019	74,000 sq ft 8 Engineers
Mixed Use New York USA	Structural Engineer	<b>Greyhound 270 Park Avenue</b> Our scope of work was to create structural 3D model for new construction & co-ordination with the architectural drawing.	July 2019	2,400,350 sq ft 5 Engineers
Apartment Portland, Oregon USA	Structural Engineer	<b>West Salem High School</b> Our scope of work was to create structural 3D model for new construction and co-ordination with the architectural drawing.	June 2019	75,815 sq ft 5 Engineers
Educational Bend, Oregon USA	Structural Engineer	<b>Bend High School</b> Our scope of work was to create 3D model & creating 2D details according to the Engineering markups.	January 2019	264,000 sq ft 5 Engineers
Commercial California, USA	Structural Engineer	<b>Workday</b> Our scope of work was to create structural 3D model, shop drawing creation & co-ordination with the architectural drawing.	June 2018	410,000 sq ft 6 Engineers
Mixed Use California USA	Structural Engineer	<b>Hillsdale Shopping Center</b> Our scope of work was to create structural 3D model, shop drawing creation & co-ordination with the architectural drawing.	July 2017	1,300,000 sq ft 7 Engineers



## India Office Locations

### Durgapur Office

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