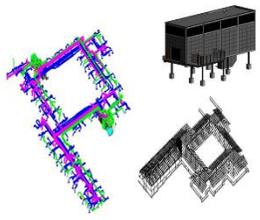


AEC - Design Build BIM Services

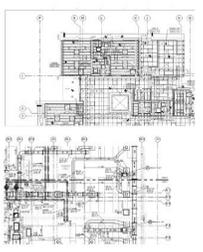
DESIGN BIM

Sr. No.	Trades to cover for design/built	Major Elements for 3D Drafting			
1	Architecture	Exterior wall	Interior wall	Door & windows	Furniture
2	Structural	Column, Beam	Concrete	Steel	Parting
3	Civil Site	Site topography	Landscape	Frame	Floor
4	Interior	Interior wall	Wall Paneling	Ceiling design, lighting	Furniture
5	Mechanical	Ducting, Piping & Fitting	Equipment	Accessories	Hangers
6	Plumbing	Piping & Fitting	Equipment	Accessories	Hangers
7	Fire	Piping & Fitting	Equipment	Accessories	Hangers
8	Electrical	Fixture & Fitting	Conduit	Cable Tray	Hangers
9	Utility	MC/Plumbing	MC/Electrical	MC/EHV	MC/Fire Gas

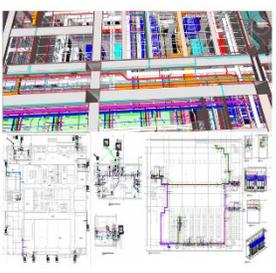
CONSTRUCTION BIM



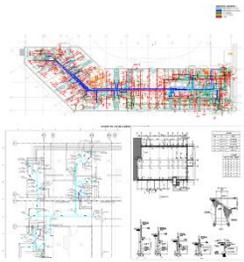
BIM 2D Drawing



AS BUILT BIM



CAD SERVICES



Index

- **About us**
- **Services we do**
- **Execution Process**
- **D & D Core Team**
- **Project Reference**
- **Contact US**

About us

At DESIGN AND DRAWING SOLUTION, we are offering AEC BIM solutions for design built projects which are backed by our technical excellence and experience. Our expertise on BIM team for architecture , structure and MEP team collaborate and give a complete solution for Design build projects design and construction documentation works .

There are always a challenge to collaborate the information and collecting all stakeholder information for design build project and Design Build contractors having many challenges to collaborate all BIM and Autodesk BIM 360 including all other platform has solution to collaborate all services together . Our team is trained all BIM Collaboration tool used by the general contractor s like BIM 360, PLANGRID, BLUEBEAM etc.

Our Experience team understand the workflow of design and build project execution process and we assist each stage of deliverables like Design BIM, construction state BIM and as built stage BIM WORKS.



6+
Years' Experience

300+
Completed Projects

150+
Customer world wide

TRADES TO COVER

- ARCHITECTURAL
- STRUCTURAL
- CIVIL SITE
- INTERIOR
- MECHANICAL
- PLUMBING
- FIRE
- ELECTRICAL
- UTILITY

BIM SERVICES

DESIGN BIM

- DESIGN 3D MODEL @ 300
- DESIGN 3D MODEL & DESIGN DRAWING

CONSTRUCTION BIM

- CONSTRUCTION 3D MODEL @ LOD (350 | 400)
- BIM Co-ordination

BIM 2D DRAWING

- Construction / Shop drawing

AS BUILT BIM

- As built Model @ LOD 500

CAD SERVICES

- 2D Co-ordination (Overlay)
- Shop Drawing
- As Built Drawing

DESIGN BIM

Sr. No	Trades to cover for design built	Major Elements for 3D Drafting			
1	Architecture	Exterior wall	Interior wall	Doors & windows	Fixture
2	Structural	Column , Beam	Concrete	Steel	Footing
3	Civil Site	Site topography	Landscape	Frame	Floors
4	Interior	Interior wall	Wall Panelling	Ceiling design , Lighting	Furniture
5	Mechanical	Ducting , Piping & Fitting	Equipment	Accessories	Hangers
6	Plumbing	Piping & Fitting	Equipment	Accessories	Hangers
7	Fire	Piping & Fitting	Equipment	Accessories	Hangers
8	Electrical	Fixture & Fitting	Conduit	Cable Tray	Hangers
9	Utility	UG Plumbing	UG Electrical	UG ELV	UG Fire , Gas

DESIGN MODEL @ LOD 300

We have AEC BIM team for architectural, structural including MEP all trades which are covered for design build projects. Our professional BIM team is efficient to develop both level 3D models works. i.e. design model @ LOD. Design Built Trades with model element details are as shown.

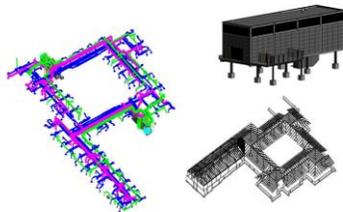
DESIGN DRAWING

Based on the design model, we produce the design drawing sets which will cover with.

1. Legend, Notes, Speciation
2. Floor Plans
3. Detail Sheet
4. Schedule

Sr. No	Trades to cover for design built	Major Elements for 3D Drafting			
1	Architecture	Exterior wall	Interior wall	Doors & windows	Fixture
2	Structural	Column , Beam	Concrete	Steel	Footing
3	Civil Site	Site topography	Landscape	Frame	Floors
4	Interior	Interior wall	Wall Panelling	Ceiling design , Lighting	Furniture
5	Mechanical	Ducting , Piping & Fitting	Equipment	Accessories	Hangers
6	Plumbing	Piping & Fitting	Equipment	Accessories	Hangers
7	Fire	Piping & Fitting	Equipment	Accessories	Hangers
8	Electrical	Fixture & Fitting	Conduit	Cable Tray	Hangers
9	Utility	UG Plumbing	UG Electrical	UG ELV	UG Fire , Gas

CONSTRUCTION BIM

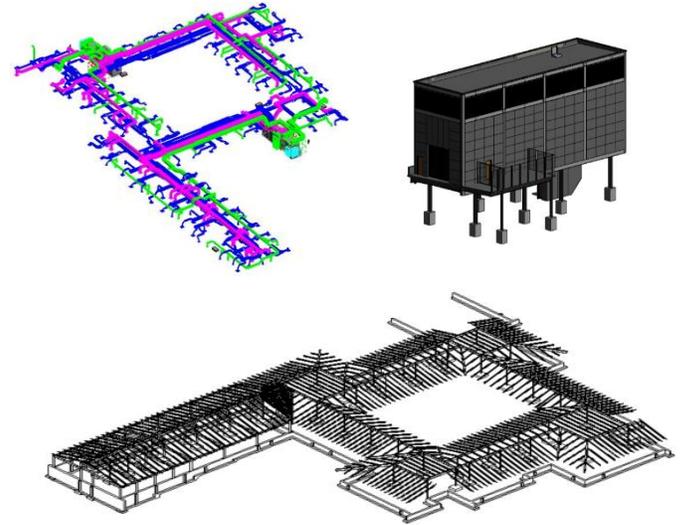


LOD 400 is a BIM model that includes highly detailed information for fabrication and installation. The elements have precise dimensions, materials, connections, and assembly details. It represents the design as it will be built, making it suitable for construction scheduling, and cost estimation.

Our AEC team is trained to produce the LOD 400 3D model based on the details, specifications and manufacturing detail to complete 3D model @ LOD 400 .

Input

For LOD 400 detailed model we need project design/ contact / tender drawing will all construction details, specification and technical submittals.



BIM Co-ordination Clash Co-ordination



BIM co-ordination covers –

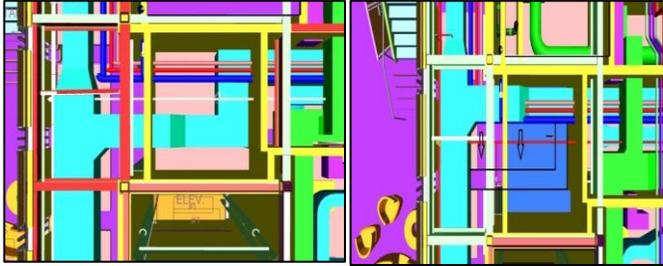
Based on controls, looped will be provided to produce lighting design and as per the final circuit design, power layouts to be produced and other layout like CCTV, Fire alarm drawings will be produced based on the reference designs and standard requirement.

1. Clash co-ordination
2. Generation of Report
3. Resolution

Clash co-ordination

We generate a coordinated BIM model after resolving the clashes among all disciplines – Architectural, Structural, Concrete, Mechanical, Electrical, Plumbing, Fire Protection, etc.

First we identify the clash and create a view points level wise or Zone wise as per schedule and working on resolution internally. If we found any critical clash, we use to generate report and to co-ordinate with the all stakeholders and providing optimize solution to complete. Once all the clashes has been resolved , we make the final model for next stage to produce the shop drawing and As built drawing.



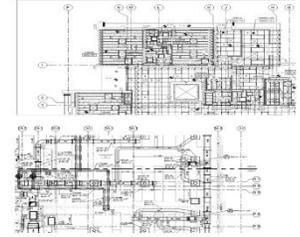
1. Generation of Report
2. Resolution

We have produced the clash report through Navisworks and provide the alternative optimize solutions to make clash free model.

ID No.	Zone	Room	Room Name & No.	Clash Description	System Name (LWS)	BIM View	CAE Remarks	Client Feedback	Status
1	Room Area	13.14 & C10	CORRIDOR SSC-C4	1. Slab clash with wall and door window opening. 2. Slab clash with wall and door window opening.	Slab		1. Remove the Slab Dry. 2. Offset the Structural Framing		Open
2	Room Area	13.14 & C10	CORRIDOR SSC-C4	Slab clash with wall and door window opening.	Slab		Offset the Slab on floor at 13.14 SSC-C4 and extend from 0.00 level up.		Open
3	Room Area	13.14 & B11	CORRIDOR SSC-C4	Slab clash with Room door and wall.	Slab				Open
4	Room Area	10.12 & B11	CORRIDOR SSC-C4	Slab clash with Room door and wall.	Slab				Open

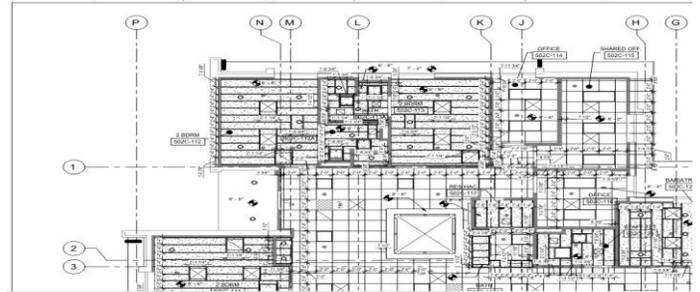
ID No.	Zone	Room	Room Name & No.	Clash Description	System Name (LWS)	BIM View	CAE Remarks	Client Feedback	Status
1	Additional Area	1.8.1.C	CORRIDOR SSC-C4	Reinforcement Clash with Slab	Reinforcement		Shift the slab to 1.8.10M SSC-C4		Open
2	Additional Area	7.8.C.0	SSC-C8	Light Clash with Slab	Light		Lower the Accessory Ceiling to 7'-00"		Open
3	Additional Area	7.8.C.0	SSC-C8	Light Clash with Slab	Light		Lower the Accessory Ceiling to 7'-00"		Open
4	Additional Area	5.8.A.8	BATH SSC-0486	Light Clash with Slab	Light		Shift the Light 8" West and Ceiling to 7'-00"	Lower	Open
5	Additional Area	4.8.A.8	RELOCATION SSC-048	Light Clash with Slab	Light		Lower the Ceiling to 7'-00"		Open
6	Additional Area	5.8.A.8	RELOCATION SSC-048	Light Clash with Slab	Light		Lower the Ceiling to 7'-00"		Open
7	Additional Area	1.8.C.0	1.8.10M SSC-C4	Light Clash with Slab	Light		Shift the Light 2" West and Ceiling to 7'-00"	Lower	Open
8	Additional Area	6.7.B.C	CORRIDOR SSC-049 HANG SSC-050	Ceiling clash with Slab. Heavy Ceiling Height 8'-0" to 8'-6" and Slab Height 8'-0"	Ceiling		Lower the Ceiling to 8'-00"		Close
9	Additional Area	6.1.B.C	CORRIDOR SSC-049	Slab clash with Slab. Heavy Ceiling Height 8'-0" to 8'-6" and Slab Height 8'-0"	Slab		Move the Slab to 6" East to 3'-00"		Close
10	Additional Area	5.8.A.8	BATH SSC-0486	Light & Slab Clash with Slab	Light		Move the Diffuser 4" West		Close
11	Additional Area	3.1.B.A	GRINDP SSC-036	Light & Slab clash with Slab	Light		Move the Diffuser 24" North		Close

BIM 2D Drawing



Shop Drawing covers

1. Re-enforcement
2. Architectural wall
3. Interior
4. MEPF

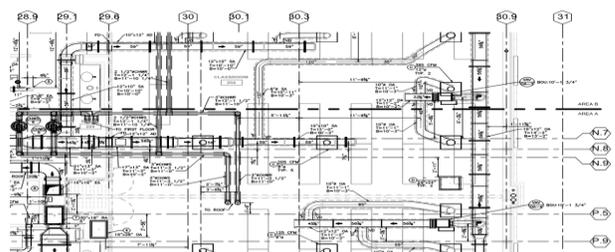


1. Re-enforcement - We produce reinforcement shop drawing of floor slab, foundation, CMU wall based on contract drawing to incorporate standard details and manufacturer details with proper dimensions and annotation.

2. Stud and CUM Wall - We produce wall shop drawing of all type of wall based on contract drawing to incorporate standard and manufacturer details with proper dimensions and annotation.

3. Interior - We produce interior shop drawing of all type of wall based on contract drawing to incorporate the required and manufacturer details with proper dimensions and annotation.

4. MEPF - We produce MEPF shop drawing based on contract drawing to incorporate standard details, equipment details with proper dimensions and annotation.

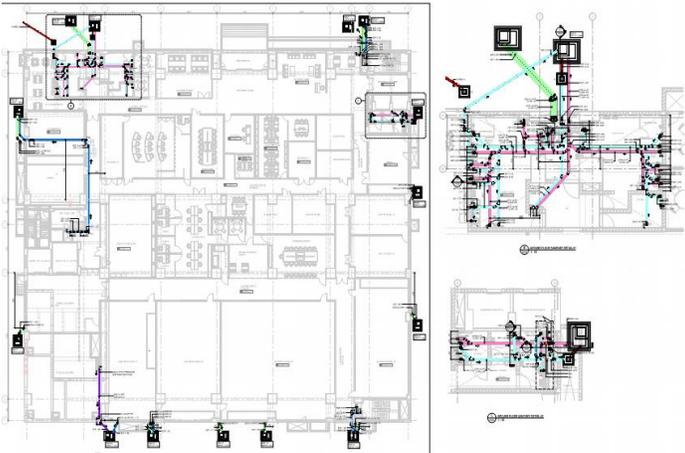
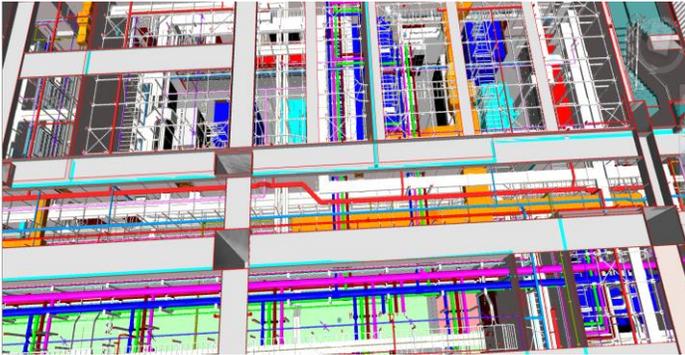


AS BUILT BIM

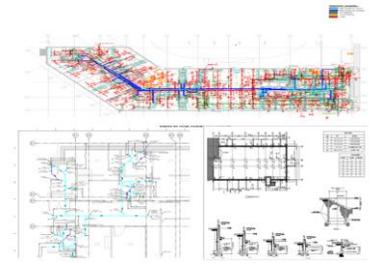


As Built Model & Drawing

Based on the site mark-ups, we create as built 3D model & Drawing and prepare the as built set for project hand over and record.



CAD SERVICES



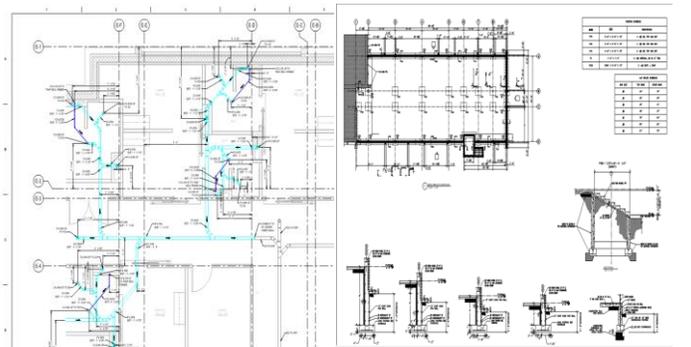
2D Co-ordination (Overlay CAD)

Our cad team produce the CAD overlay co-ordination drawing to overview the conflict of other trades. Overlay drawing can be done through CAD and PDF as well.

Shop Drawing

Co-ordination :-Co-ordination with architectural, structural along with other services to fix the BOP, BOD with proper dimension and annotation.

Dimension and Annotation :- Providing proper dimensions and annotation inline with client standard or as per general standard shop drawing .



As built Drawing

Our cad team draft the CAD drawing from redline mark-ups and Our As-built/Redline Markup Service is ideal for creating your as-builts drawings or design modifications in AutoCAD.

Markups:
RED ink for drawing changes

Core Team

Irshad Ali Shaikh

CEO – Co-Founder

Mr. Irshad Ali is the co-owner & founder of DESIGN AND DRAWING SOLUTION. He is having more than 15 years of experience in Building services in construction Industry throughout AEC project execution process from Pre-construction, construction processes like MEP engineering consulting, Designing, installation and handover process of the project.

He has completed BE in Mechanical Engineering from Pune University with Post Graduation in Project Management (PGPPM) from NICMAR Pune, India. In his small journey, he has successfully delivered the more than hundred BIM/CAD project for his satisfied client with the best quality and unique team effort.

He has experienced in all kinds of projects i.e., starting from Residential township, Commercial IT buildings and parks, Malls, High rise building, Hotel, Hospital & Institutional building. Including building Infrastructure projects like metro, airports, globally i.e. USA, Australia, New Zealand & India.

Karishma Bibi **Sales Head**

She is the co-owner of DESIGN AND DRAWING SOLUTION and well experienced in offshore sales development initiatives. She is having a good knowledge of result-oriented sales development processes and customer retention. She is leading the complete sales team for B2B sales within the company and managing and monitoring the effectiveness of the entire sales cycle. She has implemented her interior design expertise to improve the technical expertise for client communication for offshore sales which helps her build a long-term relationship with new and existing clientele.

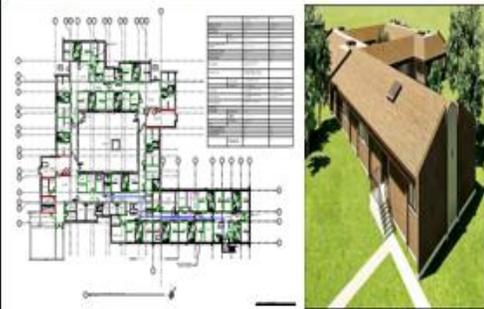
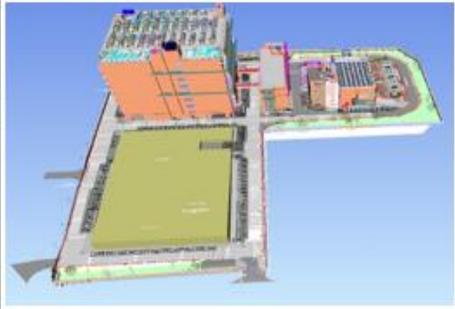
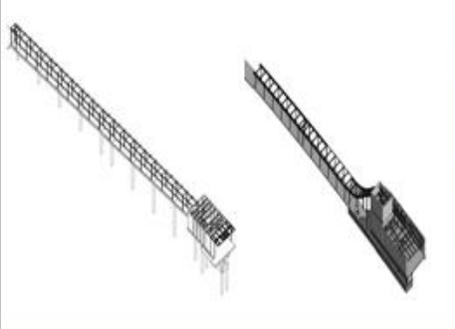
Rupam Mondal **Production Manager**

He holds a Mechanical Engineering diploma form WBSCTE, India and having more than 7 years' experience in Building construction Industry for MEP engineering, Drafting, of 3D , 4D , 5D & 6D BIM service .

He is having expertise in MEP engineering calculation, with all Autodesk BIM/CAD tools like Revit , Fabrication, AutoCAD MEP ,Navis works and AutoCAD and has complete knowledge of engineering and drafting services for all stages (Pre/post) of construction process .

He is working in DESIGNING AND DRAWING SOLUTION since from starting period of the company. With a short period of time , He has gained the managing process of the company , client communication, project management process and assisting with innovative (R & D) solution of new process , tools for new requirement of clients.

Project References

DESIGN & BUILT		
MARTINSBURG VA MEDICAL CENTER	STT DATA CENTER	MORGAN STATION
HOSPITAL FACILITY	DATA CENTER	RAILWAY STATION
MARTINSBURG , USA	NAVI MUMBAI , INDIA	CHICAGO , IL , USA
		
		
NICTD	RACINE CONG	RGIA
HIGHWAY	BRIDGE	AIRPORT
CHESTERTON , IN , USA	CHICAGO , IL , USA	HYDRABAD , INDIA

Contact US



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ENGINEERING SOLUTIONS

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