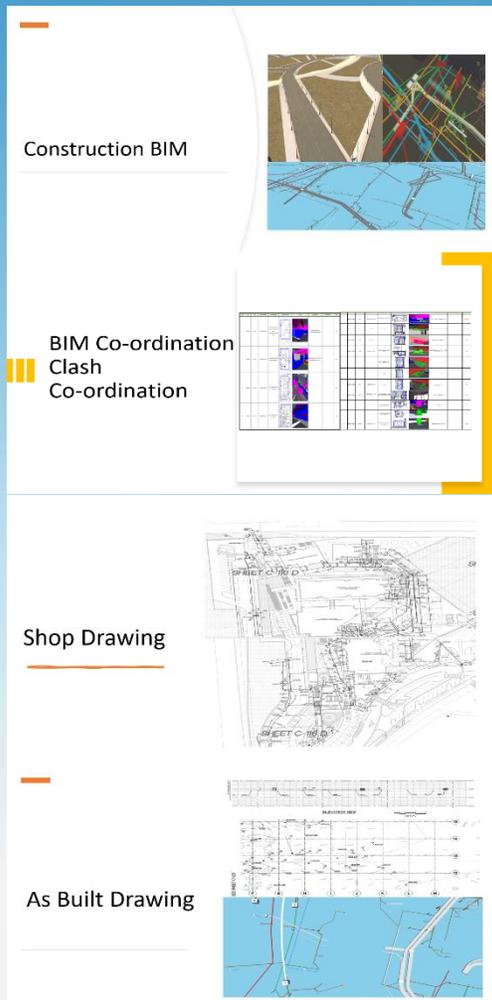


CIVIL & SITE UTILITY BIM SERVICES



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About us

At DESIGN AND DRAWING SOLUTION, we are offering AEC BIM solutions for Civil Site Plan and Site Utility projects which are backed by our technical excellence and experience.

Our expertise on BIM team for Architectural and MEP Utility team to collaborate and give a complete solution BIM co-ordination & construction documentation works.

Our experience team is trained BIM tool used by the Utility contractor s like Revit, Civil 3D for utility for Production of construction document like shop drawings.



6+
Years' Experience

300+
Completed Projects

150+
Customer world wide

TRADES TO COVER

- Civil Site Plan
- Stormwater Network
- Sewer Network
- Water Network
- Gas Network
- Electrical Network

BIM SERVICES

CONSTRUCTION BIM

- CONSTRUCTION MODEL @ LOD 400
- BIM Co-ordination

BIM 2D DRAWING

- Shop drawing

AS BUILT BIM

- As built Model @ LOD 500

First, we identify the clash and create a viewpoints 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

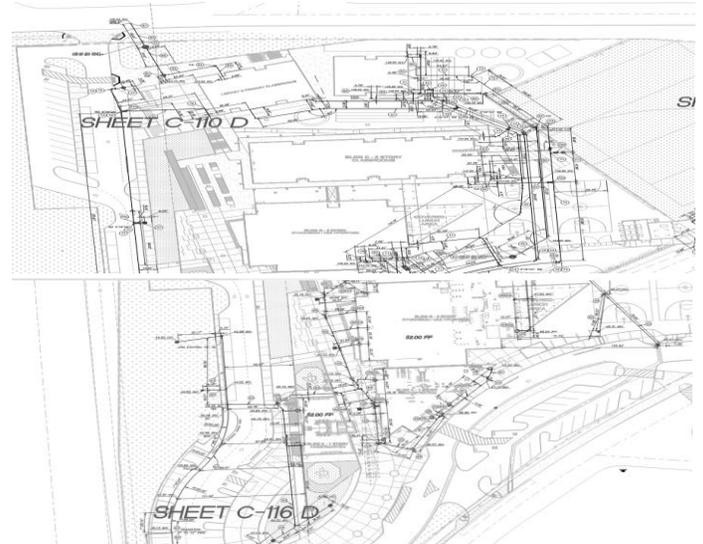
We have produced the clash report through Navisworks and provide the alternative optimize solutions to make clash free model.

No. No.	Zone	Room	Room Name & No.	Clash Description	Screen Shots (2D)	3D View	CMS Remarks	Client Feedback	Status
1	South Area	19-18 & C-D	COORDINATOR SSC-C4	1. Steel Cladding with duct and ceiling clash with duct of 1.5m 2. Mechanical Pipe Cladding with duct			1. Remove the supply duct 2. Offset the mechanical piping		Open
2	South Area	19-18 & C-D	COORDINATOR SSC-C4	Steel Cladding with duct and equipment clearance			1. Remove the piping run from ATU SSC-C4 and connect from ATU SSC-1A		Open
3	South Area	19-12 & M-L	COORDINATOR SSC-C1	Roof Cladding with Beams, duct and pipe					Open
4	South Area	19-12 & M-L	COORDINATOR SSC-C1	Roof Cladding with Beams, duct and pipe					Open

No. No.	Zone	Room	Room Name & No.	Clash Description	Screen Shots (2D)	3D View	CMS Remarks	Client Feedback	Status
1	Additional Area	7.6-B-C	COORDINATOR SSC-C4	Refrigeration Cladding with Beam			Shift the wall to 2.80M SSC-1A		Completed
2	Additional Area	7.6-C-D	SSC-C4	Light Cladding with Beams			Lower the Cladding to 7' 0"		Open
3	Additional Area	7.6-C-D	SSC-C4	Light Cladding with Beams			Lower the Cladding to 7' 0"		Open
4	Additional Area	7.6-B-A	BATH SSC-142A	Light Cladding with Beams			Shift the Light 8" West and the Cladding to 7' 0"		Open
5	Additional Area	8.6-A-B	RELOCATION SSC-143	Light Cladding with Beams			Lower the Cladding to 7' 0"		Open
6	Additional Area	8.6-A-B	RELOCATION SSC-143	Light Cladding with Beams			Lower the Cladding to 7' 0"		Open
7	Additional Area	7.6-C-D	3 BATH SSC-143	Light Cladding with Beams			Shift the Light 2" West and the Cladding to 7' 0"		Open
8	Additional Area	8.7-B-C-D	CONCRETE SSC-144 WALL SSC-143	Cladding Cladding with Beams, Cladding Height of 7' 0" and Beams Support of 7' 0"			Lower the Cladding to 7' 0"		Completed
9	Additional Area	8.7-B-C	COORDINATOR SSC-144	Roof Cladding with Beams, duct and pipe			Remove the Cladding 24" East & 24" West		Completed
10	Additional Area	7.6-B-A	BATH SSC-142A	Cladding & Beams Cladding with Beams			Move the Cladding 8" West		Completed
11	Additional Area	7.6-B-A	CONCRETE SSC-144	Light & Beams Cladding with Beams			Move the Cladding 24" West		Completed

Utilizing a coordinated project BIM model, we generate accurate shop drawings that are detailed enough for workshop fabrication and/or on-site construction.

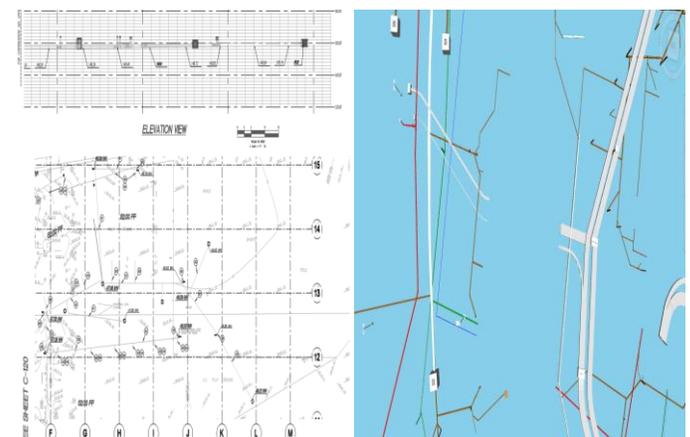
Shop Drawing produced with proper dimension, annotation, Tag including the utility networks each point Invert level for easy installation.



As Built Drawing



After Installation of Utility networks based on BIM drawings, Site team use to mark-ups the updates and changes in the plans based on the actual installation in site. 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.

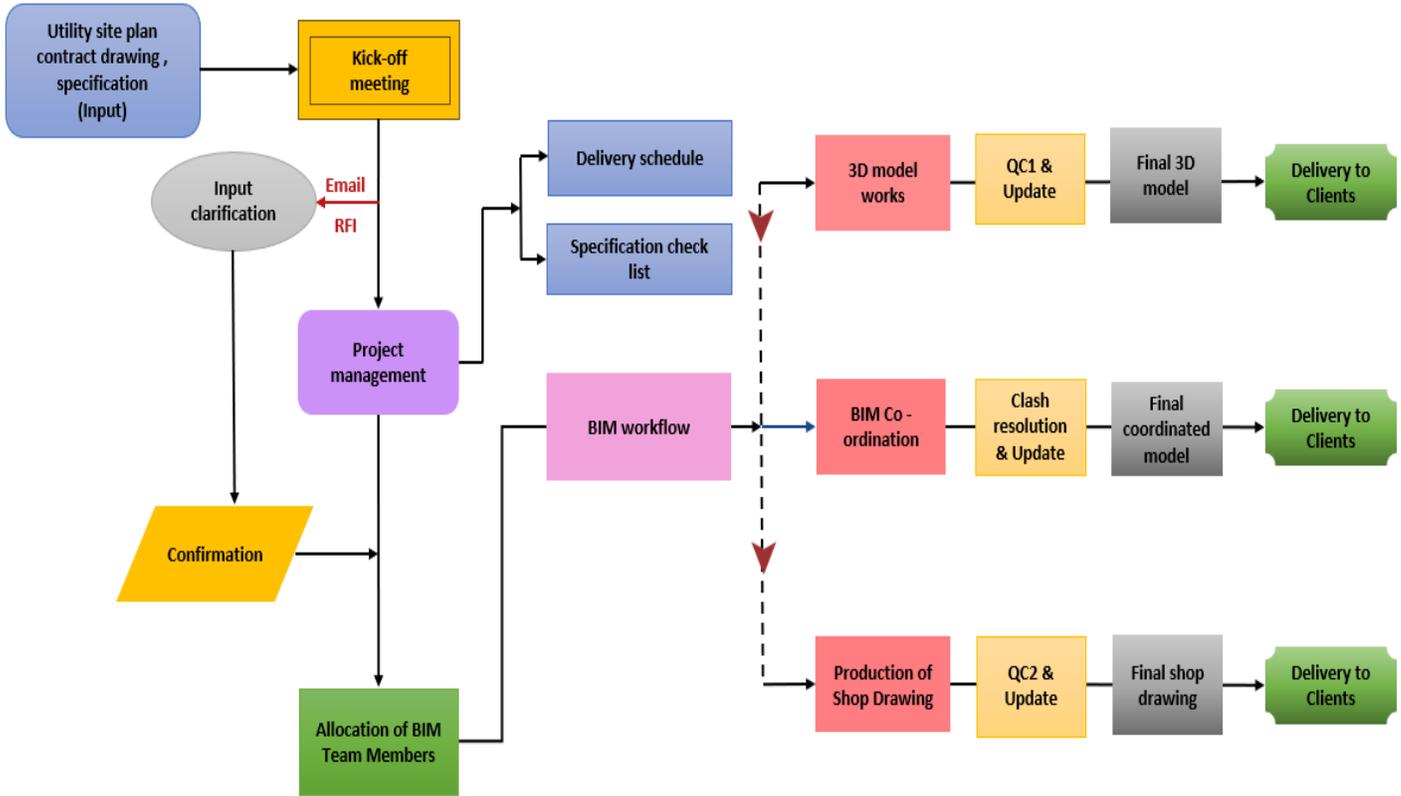


Shop Drawing



BIM is highly useful for contractors, fabricators, suppliers, and manufacturers during construction of any irregular or complex project to generate accurate shop drawings.

Execution Process



QC1-3D MODEL CHECKLIST

QC2-DRAWING CHECKLIST

SITE UTILITY
1 STORM PIPE
2 SANITARY PIPE
3 DOMESTIC WATER PIPE
4 GAS PIPE
5 ELECTRICAL & COMMUNICATION DUCT BANK
6 ELECTRICAL & COMMUNICATION CONDUIT
7 FIRE WATER PIPE
8 MANHOLE
9 INLET
10 CATCH BASIN
11 STORM FILTER
12 FIRE HYDRANT
13 CLEANOUT

CIVIL SITE
1 GRID PLACEMENT, DIMENSION & PROPERTY LINE
2 LEVEL CREATION & NORTH ARROW PLACEMENT
3 SITE TOPOGRAPHY & RELEVANT FEATURES

Common Checklist
Title Block
1 Key Plan
2 Revision Check
3 Date
4 Scale
5 Title
6 Consulting Details
7 Client Details
8 Sheet Key Notes
B General Notes and Sheet Key Notes
1 General Notes
2 Sheet Key Notes
C Aesthetic Review / Grid Review
1 Drawing Presentation
2 Grid Check
D Project Specific
1 Sheets Referenced in Appendix A Present
2 Schedules Present
3 Finishes Present
4 Elevations to Finish Schedules Proper
5 Missing Key Drawing-Specific Information
6 Proper Drawing Reference Details
7 Relevant Annotation Information

CIVIL SITE
1 Site topography
2 Landscape, Frame, Floors
3 Standard Annotations
4 Required Sections & Elevations
5 Legends & Notes
SITE UTILITY
1 Utility Network Standard Dimension
2 Utility Networks Chambers, Manholes Tag, Schedule
3 Utility Networks Chambers, Network Invert Levels (INV/IL)
4 Required Sections & Elevations
5 Schedule Detailed Sheet
6 Drawing Notes

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.

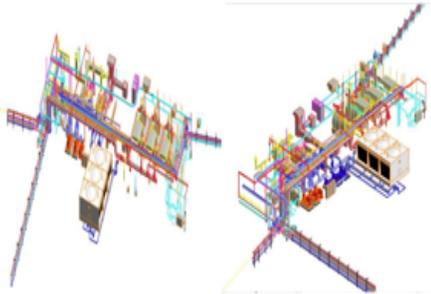
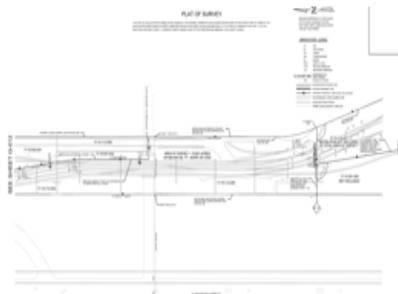
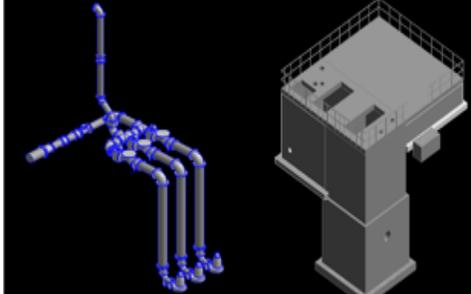
Rupam Mondal **Production Manager**

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

SITE UTILITY		
MCCSQ	VAN BUREN STREET/MILLENNIUM STATION	17th Street Utility
Utility Building	UG utility	Lift Station
Warren, MI , USA	Chicago, IL, USA	INDIANA, USA
		

Contact US


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 ENGINEERING SOLUTIONS

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