

3D Modeling of Storage Tank Facility

Key Features

Technology:

Intergraph CADWorx 2016

Autodesk AutoCAD 2016

Navisworks Manage 2016

Duration:

The project was completed in 2 months

Deliverables:

1. 3D Model
2. Overall Site Layout
3. Equipment Layout
4. Piping Layout
5. Pipe Support Location Drawings
6. Foundation Location Drawings
7. Bill of Materials
8. Isometrics
9. Piping General Arrangement Drawings
10. Updated P&IDs

The Client

US based privately held Engineering, Procurement, Construction & Project Management company specializing in the engineering and construction of heavy industrial facilities and pipelines. The company has extensive experience with oil terminals.

The Business Need

The client required Rishabh Engineering to perform 3D modeling and piping engineering deliverables of Storage Tank Facility having total capacity of 360,000 bpl.

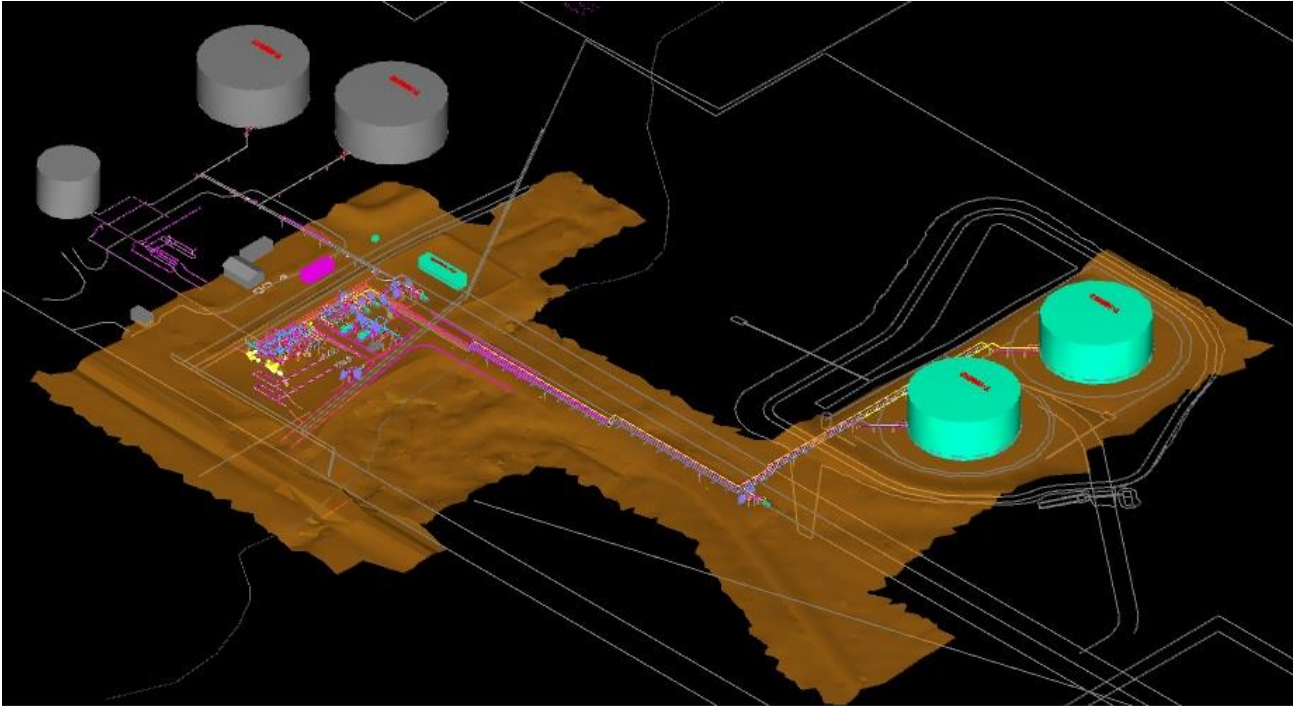
Rishabh's Solution

Rishabh Engineering was appointed to deliver the final 3D model of Storage Tank Facility with Intergraph CADWorx, thus completing it in 2 months with a team of 5 members (including 1 team leader). The project work completed was as per international codes and standards.

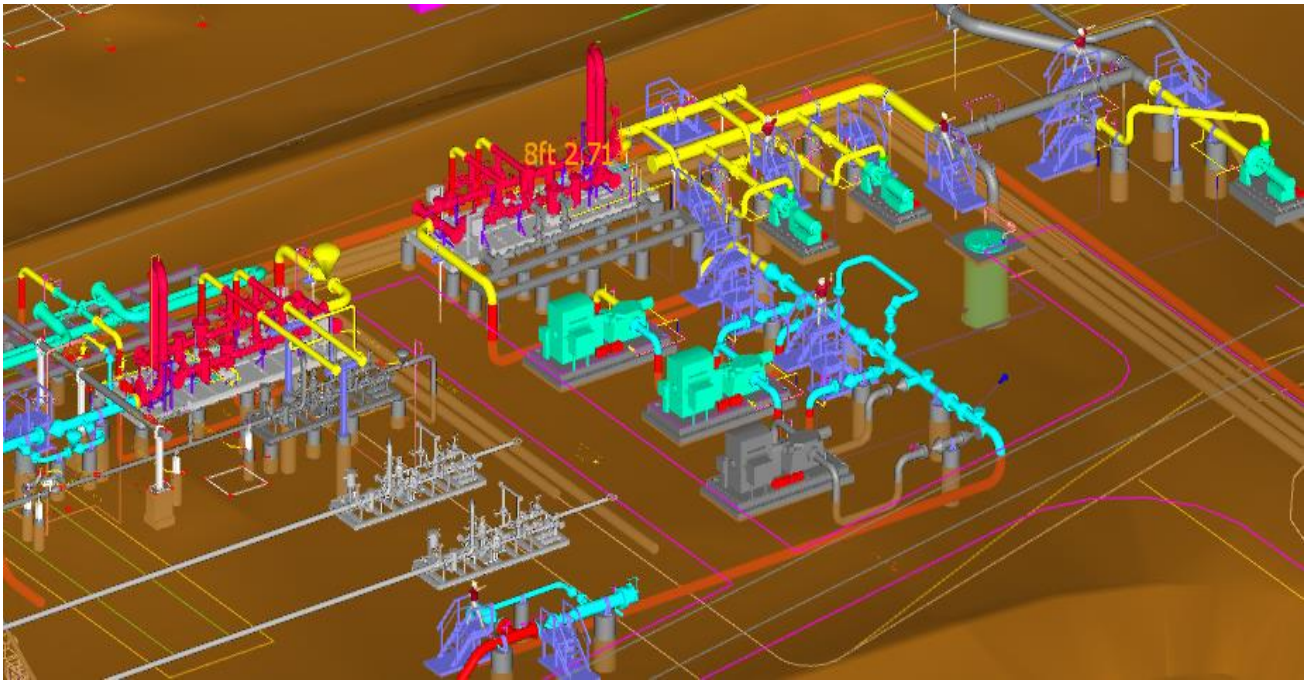
The project included modeling of the following equipments:

- 4 Storage Tanks
- 4 Booster pumps
- 4 Mainline Pumps
- 1 Launcher and 1 Receiver
- 2 Metering Skids
- 1 Prover Skid

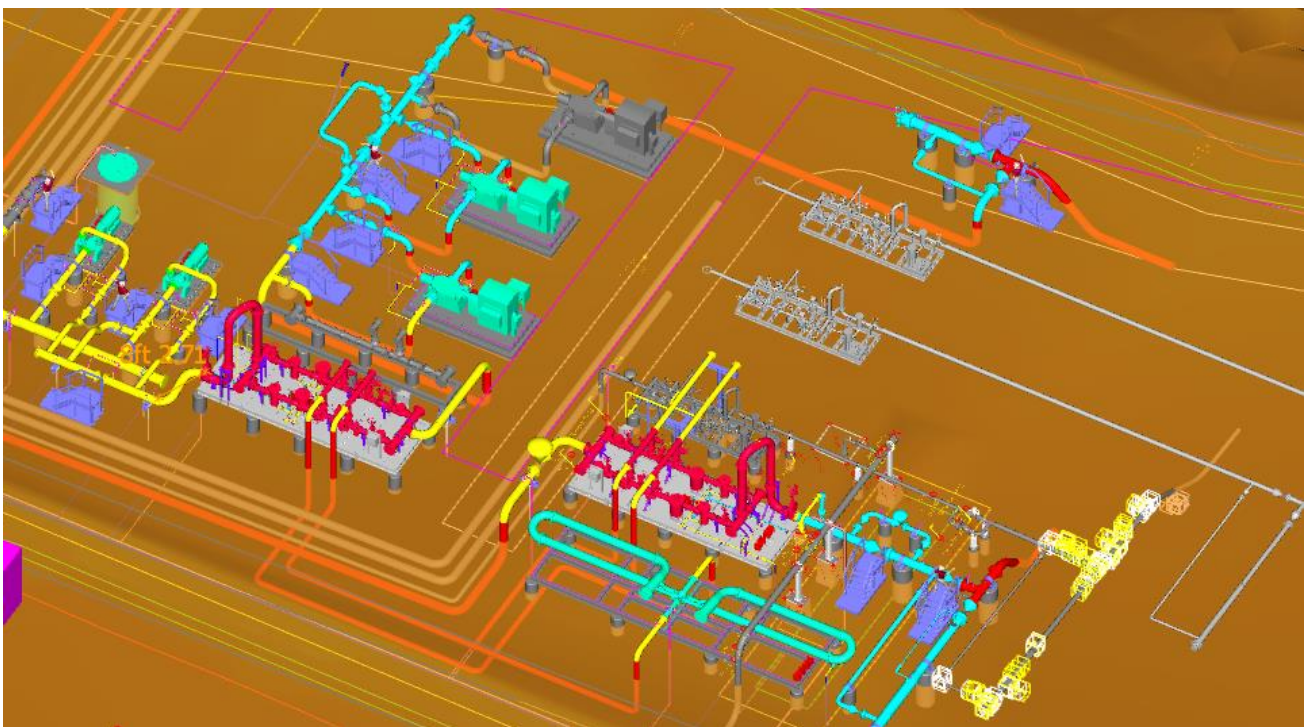
One major challenge faced during the execution of the project was site layout (equipment layout points) not received. Rishabh Engineering started routing the pipe from civil survey points and began developing the 3D model. Civil foundation was not on the same level (uneven ground surface) and accordingly the piping route had to be taken care. Rishabh Engineering modeled the equipment without availability of equipment layout and the project was very successful.



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Technology Used

- 3D Modeling Software – Intergraph CADWorx 2016
- Review Software- Autodesk Navisworks Manage 2016
- 2D Software- Autodesk AutoCAD 2016

Key Deliverables

- 3D Model
- Overall Site Layout
- Equipment Layout
- Piping Layout
- Pipe Support Location Drawings
- Foundation Location Drawings
- Bill of Materials
- Isometrics
- Piping General Arrangement Drawings
- Updated P&IDs

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More information about Rishabh Engineering, please visit:

www.rishabheng.com | www.rishabhsoft.com | www.rishabhbpo.com

About Rishabh Engineering

Rishabh Engineering provides multidisciplinary engineering support services to EPC companies in industries like Oil and Gas, Petrochemical, Power and Water treatment. Our parent company, Rishabh Software is a CMMI level-3, ISO9001 and ISO27001 company that provides services in Software Development, Business Process Outsourcing (BPO) and Engineering Services Outsourcing (ESO) to clients globally. Rishabh has offices in USA, UK and India with their main delivery center in Vadodara, India.