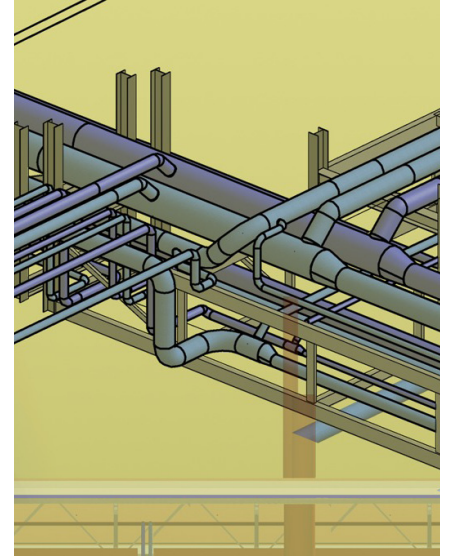
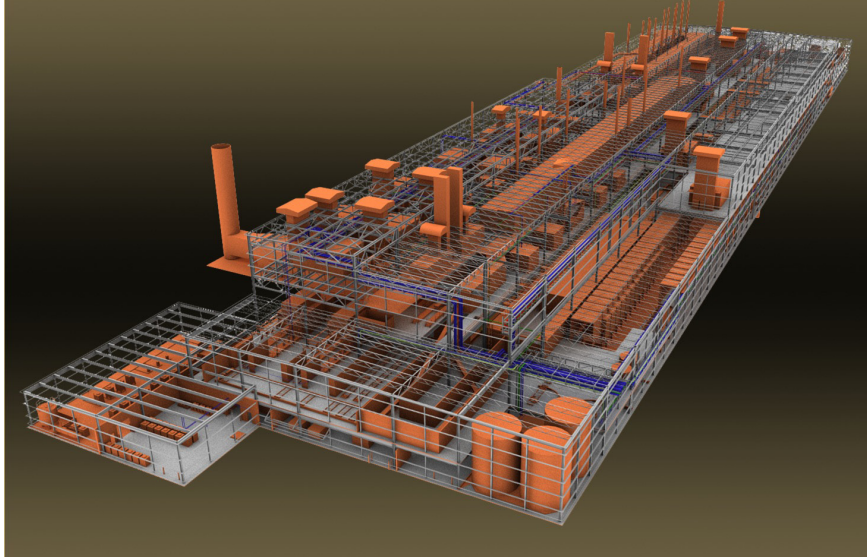


General Motors Corporation

BIM for Building Engineering; Automotive Paint Shops



SSOE provided facility engineering and architectural services for two new paint shop facilities. 3D object models of the facilities and their utility infrastructure were developed using Bentley Structural, and sharing them with the contracting partners in DWG format. The object models proved invaluable in designing the intricate routing of utilities between components in the facilities.

SSOE and equipment vendors were able to study facility and process components in relation to their true magnitude. Clip volumes, perspective drawing, and isometric detail extractions aided in studying these complex relationships.

From the piping models developed, SSOE used Bentley Structural's drawing extraction feature to create several evolutionary construction details to delineate the complex routing and transitions of utility systems. These details passed the advantages of BIM to fabrication and construction members of the team.

value promise

3D object models of the facilities and their utility infrastructure were developed and shared with the contracting partners proving invaluable in the design of the intricate routing of utilities between components in the facilities.

size 713,000 SF

location Lordstown, Ohio and Lansing, Michigan

highlights

Paint shop was comprised of four levels totaling 713,000 SF

21,000 SF, two story office space including locker rooms and cafeteria building

Project utilized concurrent 2D / 3D drafting for coordination with the process suppliers