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Clint VanDewark, Senior Designer at Erdman Anthony

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Erdman Anthony chooses CADWorx and CAESAR II, improving project collaboration and reducing costs

Providing infrastructure engineering and support services

Founded in 1954, Erdman Anthony is a multi-disciplinary firm that specializes in infrastructure engineering and support services. Headquartered in Rochester, New York, Erdman Anthony focuses on providing cost-effective infrastructure solutions for government and private-sector clients such as Geospatial Services, Civil Engineering, Facilities Engineering and Design Services, Transportation Engineering, and Construction Services.

Eastman Kodak project complexities present challenges

Erdman Anthony was part of the Footprint Reduction Program (FRP) project for Eastman Kodak in Rochester, New York, a three-year, \$190M project on which the firm handled 80% of the project engineering and design. The Eastman Kodak project involved demolitions and relocations within a 120-year old plant that included over 200 buildings spread over 1,000 acres of land. Thousands of pieces of relocated and new equipment, from coating machines to condensate pumps, plus over 100,000 feet of piping modifications were involved. One of the main challenges on the project was a need to schedule system shutdowns during demolition of some buildings, while ensuring continuous operation of the other systems.

Minimizing rework and reducing costs

Because of the project's challenges involving multiple systems, Erdman Anthony decided to use COADE CADWorx Plant, CADWorx Steel and CAESAR II in part because the programs allow engineers and designers to share information back and forth with ease. When compared to the plant design system they used in the past, they were able to eliminate such costly negatives as inaccuracies in bids and estimates, rework due to incorrect project deliverables and the inability to verify the correct installation and design of piping supports and steel. "CADWorx and CAESAR II allowed us to minimize rework and to pre-order materials ahead of time, reducing the cost of materials due to potential price increases," said Clint VanDewark, senior designer at Erdman Anthony. "As an example, this helped us identify a 50% error in the estimation of 24-inch chilled water piping required on the project."

Ensuring dynamic data exchange and successful project collaboration

COADE products allowed Erdman Anthony to perform stress analysis, easily extract data from models and ensure a dynamic exchange between the analysis tool and the model, with successful interaction among all of the design team members. This collaboration helped eliminate errors of omission. "3D visualization allowed for client, contractor, and design team interaction that resolved hundreds of questions and assisted with strategic planning," explained VanDewark.

Obtaining the detailed scope of complex areas

Design deliverables developed by Erdman Anthony included standard CAD drawings, piping layouts, sections, details, schedules, equipment and piping specifications, demolition drawings, and points of connection with shutdown coordination details. "Even with plans and sections in place, we still had complex areas that required the production and issuance of additional fabrication drawings complete with all the dimensions and BIM data," added VanDewark, "CADWorx helped us to use piping BIM data to communicate the detailed scope with very little additional effort".

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