



PROJECT ENGINEERING SERVICES

Success Through Constructability-Focused Design

Interstates brings constructability-focused design to industrial projects with our proven industry and facility expertise. The demands of an operating facility must be specifically addressed to successfully execute a project without impacting service to the end client.

Our methods focus on understanding both the goals of the project and the broader goals of the facility to set the team up to successfully execute. Whether restricting the downtime at an operating plant or looking out for opportunities far in the future, our team is equipped with the tools, knowledge, and industry experience to deliver a custom solution that will support the full lifecycle of your facility.



DESIGN CRITERIA

WORK WITH OWNER TO UNDERSTAND THE GOALS FOR THE PROJECT AND FACILITY.

These goals are translated into design criteria that consider Operations, Safety, Code, Reliability, and Capacity constraints.



DESIGN DEVELOPMENT

DEVELOP INITIAL DESIGNS THAT EXPLORE WAYS TO BALANCE COST AND SCHEDULE IMPACTS.

Focusing on these early decisions allows the owner to appropriately focus resources for the project and to release long-lead equipment.



CONSTRUCTION DESIGN

DETAIL THE DESIGN AND PREPARE PROJECT DOCUMENTATION FOR CONSTRUCTION OR FABRICATION.

When possible, leverage 3D design technology to visualize and check the constructability of our design to uncover improvements and limit conflicts.



CONSTRUCTION SUPPORT

CLARIFYING AND ADJUSTING TO CHANGES DURING PROJECT CONSTRUCTION.

Participating in the construction phase gives the designers an opportunity to react quickly to project changes and provide timely clarification when questions arise.



FACILITY OPERATIONS

INTEGRATE CONSTRUCTION RED-LINES INTO FOR-RECORD DOCUMENTATION.

This documentation can be used for facility maintenance and planning future projects. It is a critical action in fulfilling our goal of design that supports the full lifecycle of the facility.

PROJECT SCOPE DEVELOPMENT

Set the scope of the project in the context of facility and project goals. Explore design alternates, and complete early budget development.

EQUIPMENT PROCUREMENT

Complete the design required to purchase long-lead equipment on-time.

DETAILED DESIGN

Develop the design documents needed to support successful fabrication and construction.

VALUE ENGINEERING

Find and pursue opportunities to save project cost and schedule.

3D CAD & BIM

Leverage the model to visualize design options and find conflicts to minimize field rework.

FABRICATION MODELING & DESIGN

Identify and pursue opportunities to move labor off-site through product selection and prefabrication.

CONSTRUCTION ASSISTANCE

Keep design support throughout the construction phase to maintain project documentation and support the execution team.

FOR-RECORD DOCUMENTATION

Leverage field redlines into a quality drawing set that supports maintenance needs and planning for future projects.



Ready To Get Started?

Reach out to Interstates to learn how our constructability-focused design team can boost the success of your next project.

