

BRIDGES



**COTTAGE GROVE
BRIDGE**
Des Moines, IA

EMBRACING CHALLENGES. REALIZING VISIONS.

With a staff of over 20 structural engineers and technicians, practical solutions and thoughtful guidance are just the beginning. A comprehensive service offering means you can depend on us for nearly every aspect of your project. We foresee and respond proactively to challenges with a depth of resources and experience that are differentiated by:

- Buildable plans with complete specifications that guide reliable results.
- Collaboration with all stakeholders and strong relationships with regulatory agencies.
- Realistic, appropriate designs to assist with budget forecasting, funding procurement, and project planning.
- The ability to compress design schedules to reduce project costs and extend the use of resources.





BRIDGE REPLACEMENT

Spillville, IA

HOW WE CAN HELP

BRIDGE CONCEPT & FEASIBILITY STUDIES

Project sites are evaluated to determine possible bridge types, lengths, and deck configurations. Hydraulic analysis results, along with roadway planning needs and ROW limits, are used to optimize construction depths, span lengths, and bridge arrangements.

BRIDGE DESIGN

Final plans depict complete construction details to minimize construction inquiries, reducing inspection and administrative efforts. Detailed specifications and requirements simplify material submittal reviews and reduce the potential for change orders.

BRIDGE REHABILITATION & RESTORATION

Our bridge rehabilitation process begins with an extensive evaluation to determine current conditions and required repairs. A load rating of the existing bridge determines current load capacity. A thorough cost estimate is developed, and a report detailing the bridge condition with recommended repairs is provided to assist with funding procurement.

FUNDING ASSISTANCE

With years of experience pursuing state and federal funding, we can help navigate the process, write applications, and administer funding documentation.

CONSTRUCTION ADMINISTRATION

Working with contractors, we strive to utilize materials and equipment that are suited for each individual contractor. Specific services we offer include:

- WEAP analysis
- Bridge demolition plans
- Bridge beam/girder erection plans
- Cofferdams
- Temporary shoring

Construction review services are provided on a routine basis for the transportation projects we design. They may range from a limited scope of services to full scope resident engineering.

BRIDGE INSPECTION & LOAD RATING

Our inspectors are Federal Highway Administration/National Highway Institute trained to fulfill National Bridge Inspection Standards as well as State DOT and local municipality requirements.

In addition to routine inspections, we're trained for fracture critical and confined space inspections.