Bridges & Structures

With one in four bridges either structurally deficient or functionally obsolete, structural engineers must possess a thorough understanding of various bridge types to meet the infrastructure challenges we face today. Snyder & Associates, Inc. and subsidiary Shuck-Britson, Inc. are recognized as industry leaders in the planning, design and construction review of all types of bridge structures. Additionally, our professionals perform bridge rating and inspection services to ensure existing structures meet the standards set forth by state agencies and the Federal Highway Administration.

Creativity is critical when working with limited funds. We combine both innovative and proven methods to construct enduring and distinctive structures that maximize your bridge investment dollars. No project is too large or small. Our clients receive the responsive service you would expect from a small team while utilizing the resources of a Midwestern firm serving IA, MO, NE, SD, and WI.
Planning
Helping you identify public policy goals and determining engineering feasibility, project budgets and schedules, helps set the course for a successful project. In today’s market, it is not uncommon for projects to receive funding from multiple sources. Snyder & Associates, Inc. professionals offer a broad knowledge of program funding requirements established by the various government agencies. We are experienced with public/private partnerships and alternative contract delivery methods, and can guide you through those options to maximize your investment.

Design
Innovative design, integrated with proven details, produces enduring and distinctive structures. Our bridge design teams have the technical expertise to meet today’s infrastructure challenges including major river crossings, multi-span viaducts, single span bridges, and reinforced concrete box culverts. State of the art design software and hardware facilitate innovation and allow evaluation of multiple design options. Technology augments professional experience to target the best solution.

Rehabilitation
A unique and creative approach is critical to the renovation or rehabilitation of today’s bridges. Designs need to function as a modern bridge, extending the life of the existing structure, all while working with the funds available. Whether a project needs to be widened to accommodate today’s traffic, strengthened to attain load capacities, or restored to maintain historic significance, Snyder & Associates, Inc. has the experience and expertise to maximize your bridge investment dollars.

Construction Administration
Snyder & Associates, Inc. routinely provides construction review services for all types of transportation projects. This can range from limited scope of services targeted at shop drawings, periodic site visits, and review of submittals, to full scope resident engineering. Our engineers understand the complexities and challenges of bridge construction and Federal funding requirements. Design of bridges requires knowledge of construction methods and the effects of construction operations on the performance of the final structure. This knowledge is passed on to clients and contractors both in our designs and through our construction review services.

Specialty Structures
Designing safe pedestrian crossings often involves unique design challenges. Snyder & Associates, Inc. is experienced in a broad spectrum of pedestrian bridges, tunnels, and urban skywalk systems. In addition, our professionals have designed many specialty structures including retaining walls, dams, culverts, and other drainage structures.

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