

BRIDGE DESIGN SERVICES



Willey Road Historic Bridge, PCI Design Award Winner

KZF's Bridge Design Group specializes in providing cost-effective, high-quality bridge design including analysis, rehabilitation, feasibility studies, inspection and plan preparation. We use innovative software and have customized, in-house utilities to optimize bridge designs. Our staff has experience with AASHTO's Allowable Stress, Load Factor and LRFD bridge design methodologies. We strive to provide owners with high quality construction plans and accurate bridge details.

Services

- Bridge design
- Bridge rehabilitation
- Bridge load rating
- Historic bridges
- Retaining walls
- 3-D finite element modeling
- Accelerated bridge construction
- LRFD
- Pedestrian/bikeway bridges
- Aesthetics
- Feasibility studies
- Construction engineering
- Value engineering
- Shop drawings
- Bridge seismic analysis
- Bridge life-cycle and cost analysis
- Railroad bridges
- Bridge inspection
- Maintenance of traffic
- Peer Review and independent QC
- Design/Build
- Bridge hydraulic and scour studies
- Construction cost estimating



Paddock Road Bridge, AIA Honor Award Winner

I-70 Improvements, Preble County, OH

Client: Ohio Department of Transportation

KZF Design provided civil and bridge engineering services for a design/build project requiring widening at mainline bridges, safety upgrades, rehabilitation of 12 overhead bridges, new signing, new lighting for the weigh station, re-decking of six twin mainline bridges and new standard guardrails. This project also required a Preconstruction Permit using a 404 permit application.

SR4, CLA-4-11.02 L/R Rehabilitation

Client: Ohio Department of Transportation

KZF Design provided engineering services for the rehabilitation and widening of two existing bridges. Four abutments and eight piers had to be widened, existing concrete decks and steel support beams were removed and replaced and full width approach slabs were provided.

When completed, the left bridge was six spans (72'-90'-90'-90'-90'-54') and the right bridge was 4 spans (85'-94'-94'-57'). The bridges span Rock Run Road, the Indiana-Ohio Railroad, Roadway Ramp C, and Rock Run Creek.

