



ON-CALL STRUCTURAL/BRIDGE ENGINEERING SERVICES

ABOUT US

Howe Company, LLC (Howe Co) started business in 2014 when Shannon Howe purchased the Missouri County bridge engineering and land surveying business from a previous employer. The purchase of all the existing county bridge engineering contracts has allowed Shannon and his team to provide uninterrupted service to his existing clients.

The majority of our team members have 15-30 years of experience with local agency bridges. Our focus on the rapid delivery of projects has raised the bar on performance and allowed many Local Agencies to complete projects faster than ever before. We have been fortunate to have several clients trust us to deliver multiple projects for their communities in the form of repeat work.

Howe Company, LLC provides specialized bridge services through the **(BEAP) Bridge Engineering Assistance Program** administered by the Missouri DOT for the purpose of helping Local Agencies address a variety of bridge problems.

PHILOSOPHY

We will get your project ready to advertise fast.

We have developed a process, hired key staff, and continue to make improvements to our production methods in order to consistently deliver projects in a short period of time. Our goal is to deliver projects to MoDOT within 8-10 months. Our track record is excellent. Ask us, and we'll show you the numbers.

TECHNICAL EXPERTISE & EXPERIENCE

Relax, knowing we have all the technical expertise needed to complete your project. Our All-Star team consists of professional engineers, (P.E.), a professional structural engineer, (S.E.), senior designers, project managers, land surveyors, and other experts.

CAPACITY & CAPABILITY

We can handle 15-20 bridge projects per year with some projects in the design phase and some in the construction phase. We have a strong understanding of the various funding types, including;

- Highway Bridge Funding, BRO & BRM
- Soft Match Credit
- Multi-Modal for bridges over railroads.
- Community Development Block Grants
- FEMA replacement & mitigation
- FHWA Discretionary Grants

PERFORMANCE

This brochure provides information about our experience, technical capabilities, and performance. We are proud of our ability to deliver projects. Please consider us when you plan your next project.



www.howecompany.com

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Macon County Bridge No 37300131 - Locally Funded
Bayport Avenue over the BNSF Railway
This is a 26.75' wide x 229' long, 3-span bridge.
The design was completed in approximately 6 months.
Construction Costs= \$ 1 Million Dollars
Reference: Alan Wyatt, Presiding Commissioner
Phone: (660) 385-2913



Carroll County Bridge #19300051, BRO-B017(67)
This is a double barrel reinforced box culvert, each cell is 15'W x 11'H x 82'L. Construction Cost was \$187,000
Reference: David Martin
Carroll County Commissioner
Phone: (660) 542-0615



Putnam County Bridge #03600281, BRO-B086 (25)
This is a 138'-0" long, three span, pre-fabricated concrete superstructure bridge on a 40 degree skew with steel foundation piles. Construction cost was \$501,000.
Reference: Gerald Owing
Putnam County Commissioner
Phone: (660) 947-2674



Mercer County Bridge #18900111, BRO-B065 (33)
This is a 65' long single span bridge. This design was completed in 9 months. Construction cost was \$232,000
Reference: Shane Grooms
Mercer County Associate Commissioner
Phone: (660) 748-3425



Grundy County Bridge #39700081, BRO-B040 (26)
This is a 332'-9" feet long, three span bridge. Construction cost was \$1,231,349.
Reference: Joe Brinser
Grundy County Commissioner
Phone: (660) 359-4040



Lewis County Bridge No 16700151, BRO-B056 (12)
This is a 260'-0" three span bridge with steel girders, concrete bridge deck, steel foundation piles, concrete abutments, concrete spread footings, and concrete intermediate piers. Construction cost was \$1,175,977.
Reference: Wayne "Fid" Murphy
Lewis County Presiding Commissioner
Phone: (573) 767-5476



Clark County Bridge No 18400061, BRO-B023(27)

Howe Company designed a 200'-0", three span, 20 degree skew, prestressed concrete NU-girder superstructure bridge.

Construction cost was \$792,826.

Reference: Buddy Kattelman
Presiding Commissioner
Phone: 660-727-3283



Boone County Br No 0420020 - Locally Funded

Dripping Springs Road

Howe Company designed a 124' long single span, prestressed concrete girder bridge. Construction cost was \$552,920.

Reference: Jeff McCann, Chief Engineer
Boone County Resource Management
Phone: (573) 721-3250



Dekalb County Bridge No 13900031, BRO-B032 (37)

Howe Company, LLC designed a single span prestressed concrete I-girder bridge to replace the existing bridge. Construction cost was \$429,168.

Reference: Gary McFee
Associate Commissioner
Phone: (816) 449-5402



Gentry County Bridge No 41500081, BRO-B038 (28)

Howe Company, LLC designed a 124'6" long single span, concrete NU53- concrete girder bridge to replace the existing bridge. Construction cost was \$442,135.

Reference: Larry Wilson , Associate Commissioner
Phone: (660) 726-3525



Callaway County




Callaway County Burnett School Road Bridge

(Boone Co Br No 3850011) over Cedar Creek, 151529FLAP054

Howe Company designed a replacement for this bridge located on the county line with challenging landscape. This project involved the following agencies: U.S. Forestry Service, University of Missouri – Columbia, Missouri DOT, Callaway County, Boone County, and Federal Highway Administration. Construction scheduled for spring/summer 2020. Construction cost estimated at \$850,000.

Reference: Paul Winkleman, P.E.
Callaway County Road & Bridge
Phone: 573-642-0740



Bridge Experience Profile	Include Engineers & Detail Technicians Design, Calculations, Drafting, QA/QC tasks, etc.			
Firm's Name & Address:  Date Updated: August 2018	Shannon J. Howe. P.E., S.E., Principal	Aaron Lukefahr, P.E. Project Engineer	Dan Thronson, Senior Designer	Beth Moots, Design Technician,
Preliminary Bridge Plans	X	X	X	X
Preliminary Bridge (Box Culverts) Plans	X	X	X	X
Horizontal Alignment	X	X	X	X
Hydraulic Calculations	X	X		X
Scour Analysis & Reports	X	X		X
Integral End Bents	X	X	X	X
Semi-Deep Abutments	X	X	X	X
Pier (Bent) Designs	X	X	X	X
Seismic Design	X	X		
Seal Course Designs	X			
Superstructure (PPC Girder)	X	X	X	X
Superstructure (Steel WF Beams)	X	X	X	X
Superstructure (Plate Girders)	X	X	X	X
Superstructure Precast Concrete Box Girders	X	X	X	X
Flared Bridge Design	X	X	X	X
Single Span Designs	X	X	X	X
Multiple Span Designs – Simple Spans	X	X	X	X
Multi-Span (Simple Span for DL & Continuous for Live Load) Pre-stressed Concrete Girders	X	X	X	X
Multi-Span (Simple Span for DL & Continuous for Live Load) Steel Girders	X	X	X	X
Foundations (Spread)	X	X	X	X
Foundations (Piling)	X	X	X	X
Final Bridge Plans	X	X	X	X
Final Bridge (Box Culvert Plans)	X	X	X	X
Quantity Estimates	X	X	X	X
Surveys (Hydraulic & Topographic)	X	X	X	X
Railroad Bridges (Deck Girders – Steel)	X	X	X	X
Railroad Bridges (Deck Girder – PPC)	X	X	X	X
Railroad Bridge Construction Liaison	X			
Bridge Reports	X	X		X
Bridge Rehabilitation	X	X	X	X
Bridge Widening	X	X	X	X
Opinions of Probable Cost	X	X	X	X
Shop Drawing Review & Construction Admin.	X	X	X	X
Cost Comparisons	X	X		
Peer Design Review	X	X	X	X
Traffic Control	X	X	X	X
Bridge Jacking Plans	X	X		X