

On-Call Structural / Bridge Engineering

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 6-8 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

In order to illustrate our performance and range of expertise, we are providing a performance summary chart and some project profiles which illustrate the range of our expertise.

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.



Engineers • Land Surveyors

www.howecompany.com

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	MoDOT-LPA Project BRO & IBRD								
	Months after Notice to Proceed / Authorization to Begin PE								
Project Name	2	3	4	5	6	7	8	9	10
Knox Co. Br. No. 09200131 BRO-B052 (21)	PP		ROW		PSE				
Lewis Co. Br. No. 28700101 BRO-B056 (13)	PP	ROW				PSE			
Mercer Co. Br. No.04700021 IBRD-9900 (253)	PP	ROW			PSE				
Adair Co. 4-BRIDGES BRO-B001 (48)		PP ROW		PSE					
Livingston Co. Br. 1610010 & 1890011 BRO-B059(20)		PP			ROW			PSE	
Monroe Co. Br. 209000091 BRO-B069(42)	PP ROW			PSE					
Lafayette Co. Br 38200041 BRO-B054(22)	PP	ROW			PSE				
Lafayette Co. Br 27900071 BRO-B054(23)	PP	ROW			PSE				
Mercer Co. Br. 03300212 BRO-B065(32)	PP	ROW		PSE					
Pike Co. Br. No. 06500021 BRO-B082(27)	PP ROW					PSE			
Carroll Co. Br. No. 19300021 BRO_B017(67)	PP ROW			PSE					
Carroll Co. Br. No. 11000121 BRO-B017(65)	PP ROW			PSE					
Putnam Co. Br. No. 03600281 & 04300011 BRO-B086(25)	PP	ROW				PSE			
Schuyler Co. Br. No. 200001202 BRO-B098(19)	PP	ROW		PSE					
Ray Co. Br. No. 09900261 BRO-B089(25)	PP	ROW		PSE					
Livingston Co. Br. No. 06500201 BRO-B089(21)		PP ROW			PSE				
Putnam Co. Br. No. 03600351 & 04400051 BRO-B086(26)		PP ROW					PSE		
Livingston Co. Br. No. 12800161 BRO-B059(22)	PP ROW					PSE			

PP - Preliminary Plans and Engineering Report submitted to MoDOT

ROW – Right of Way Plans & Easements submitted to MoDOT

PSE- Final Plans, Specifications, & Estimate packet submitted to MoDOT (Final ROW packed submitted prior)

	Non-Federally Funded Projects Built by Contractors									
	Months after Notice to Proceed / Authorization to Begin PE									
Project Name	1	2	3	4	5	6	7	8	9	10
Macon Co. Br. 37300131 over BNSF Railway	PP			PSE						
Marshall Spec. Rd. District of Saline County Br. #1520008	PP				PSE					
Marshall Spec. Rd. District of Saline County Br. #1920002	PP				PSE					

PP- Preliminary Plans reviewed with LPA

PSE- Easements Acquired, Plans, Specifications, & Estimate Completed.



Pike County Bridge 15700141 BRO-B082 (26)

This is a 24 feet wide x 110 feet long, 3-span bridge. The design was completed in 8 months. Construction cost was \$295,000

Reference: Dan Miller, Presiding ommissioner
Phone: (573) 324-5447



Macon County Bridge 37300131 -

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: Jon Dwiggins, Associate Commissioner
Phone: (660) 385-2913



Carroll County Bridge #38300191

BRO-B017(63) This is a 16 feet wide x 9 feet high x 59 feet long single barrel cast in place concrete box culvert.

Construction Costs is \$101,000

Reference: Nelson Heil, Presiding Commissioner
Phone: (660) 542-0615



Lewis County Bridge 28700101 -

This is a 24.5 feet wide x 120 feet long, single span steel plate girder bridge. The design was completed in approximately 6 1/2 months.

Construction cost is estimated at \$463,000.

Reference: Wayne Murphy, Jr., Presid. Commissioner
Phone: (573) 767-5212



Lafayette County Bridge 27900071 -

This is a 24.5 feet wide x 138 feet long, three span slab bridge. The design was completed in about 6 months. Construction cost is

estimated at \$435,000.

Reference: Harold Hoflander, Presiding Commissioner
Phone: (660) 259-4315



Mercer County Bridge 03300212 -

This is a 24.5 feet wide x 75 feet long, single span pre-stressed concrete girder bridge. The design was completed in approximately 5 months. Construction cost is estimated at \$268,000.

Reference: Clifford Shipley., Presiding. Commissioner
Phone: (660) 748-3425

Bridge Experience Profile	Include Engineers & Detail Technicians					
Firm's Name & Address: Howe Company, LLC 1119 South Missouri Street, Suite A Macon, MO 63552 Date Updated: October 2014	Person's Name	Shannon J. Howe, P.E., S.E., Principal	Aaron Lukefahr, E.I., Project Engineer	Ron Urton, P.E., Project Engineer	Dan Thronson, Senior Designer	Beth Moots, Design Technician, Project Manager
Preliminary Bridge Plans		X	X	X	X	X
Preliminary Bridge (Box Culverts) Plans		X	X		X	X
Horizontal Alignment		X		X	X	X
Hydraulic Calculations		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	Check squares that are applicable to person's experience.	X	X			
Seal Course Designs		X				
Superstructure (PPC Girder)		X	X	X	X	X
Superstructure (Steel WF Beams)		X	X	X	X	X
Superstructure (Plate Girders)		X	X		X	X
Superstructure (Hybrid Plate Girders)						
Superstructure Reinforced Concrete Slab		X	X	X	X	X
Horizontally Curved Bridges						
Horizontally Curved Slab on PPC Girders						
Horizontally Curved Slab on Steel WF Beams						
Horizontally Curved Plate Girders						
Horizontally Curved Hybrid Plate Girders						
Single Span Designs		X	X	X	X	X
Multiple Span Designs		X	X	X	X	X
Foundations (Spread)		X	X	X	X	X
Foundations (Piling)		X	X	X	X	X
Final Bridge Plans		X	X	X	X	X
Final Bridge (Box Culvert Plans)		X	X	X	X	X
Quantity Estimates		X	X	X	X	X
Surveys (Hydraulic & Topographic)		X	X	X	X	X
Railroad Bridges (Open Deck)						
Railroad Bridges (Ballast Deck)						
Railroad Bridges (Through Steel Girder)						
Railroad Bridges (Deck Girders – Steel)		X	X		X	
Railroad Bridges (Deck Girder – PPC)		X			X	
Railroad Bridge Construction Liaison		X				
Bridge Reports		X	X		X	
Fracture Critical Analysis & Reports						
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	
Peer Design Review		X	X		X	
Traffic Control		X	X	X	X	