

LOCHNER

November 15, 2013

Mr. Kenny Voss, P.E., Local Program Administrator
Missouri's Local Program for Community Development
105 West Capitol Avenue
PO Box 270
Jefferson City, MO 65102

Attn: MaryAnn Jacobs

Re: **LPA On-Call Structures**
Lochner Project No. X00009449

H.W. Lochner, Inc.
903 E. 104th Street | Suite 800
Kansas City, MO 64131-3451

T 816-363-2696
F 816-363-0027

hwlochner.com

Dear Mr. Voss:

Lochner is pleased to have the opportunity to be placed on the list of prequalified consultants to provide on-call professional services to Missouri Local Public Authorities. Lochner is an approved, pre-qualified bridge consultant, and we are very interested in providing services out of our Kansas City office.

Founded in 1944, Lochner is a 500⁺ person transportation engineering firm Headquartered in Chicago, IL with 27 offices in 16 states. Lochner is a one-stop firm for innovative solutions to your planning, design, construction and alternative delivery needs. Our Kansas City office has been in service since 1957 and has been providing quality services to MoDOT and eastern Missouri for over 50 years. The experience the Lochner team has gained through the years will serve as a valuable asset as we provide these services to Missouri LPAs.

In addition to serving clients in Missouri, our bridge design experience also includes providing services for other state DOTs, municipal government agencies, railroads, contractors and private developers. Lochner's relevant design services include:

- New, rehabilitated and widened highway, railroad and pedestrian bridges
- Superstructures including steel girders, concrete slabs, prestressed concrete girders
- Substructures including cantilever and integral abutments, hammerhead and multi-column piers
- Foundations including spread footings, piles and drilled shafts
- Retaining walls and noise walls
- Culverts and pedestrian underpasses
- Seismic analysis and design
- Accelerated bridge construction techniques
- Temporary construction works, including shoring, support of excavation and cofferdams
- Load rating of existing bridges
- On-call and emergency structural support services
- Bridge hydraulics and hydrology

Bridge design services for this on-call contract will be performed under the leadership of Mark Johnston, P.E. Mark has over 21 years of structural experience and leads our bridge group in the Kansas City office. Once an on-call project need is identified, Mark will assign a Project Manager and assemble a team of professionals who have successfully completed other similar projects. Team size will vary depending on

the complexity of the project and the required completion timeframe. Lochner’s Project Manager will coordinate with the LPA Project Manager and direct the efforts of the Project Team. The diverse experience and backgrounds of the team members will provide a variety of insights during the design of the projects.

In the 50 years we have been providing bridge services in Missouri, our projects have included preliminary and final design on both new construction and rehabilitation for bridges over waterways, highways and railroads. New bridge projects have included straight and curved steel girder, concrete girder and concrete slab bridge types. Rehabilitation projects have included re-decking, widening, joint replacements and structural steel repairs. We coordinate maintenance of traffic issues with roadway designers, if outside our firm, to ensure that the construction phasing matches the MOT plan. In addition to design, all of our bridge engineers are also experienced bridge inspectors, which we believe give them extra insight into bridge rehabilitation challenges.

Team members available are indicated below.

Qualifications of Key Personnel Available to Serve MoDOT	Bridge Design	Cost Estimating	Hydraulics	Bridge Rehabilitation	Bridge Inspection	Project Manager
BRIDGE DESIGN						
Steve Hileman, PE – 36 years of experience	x	x		x	x	x
Mark Johnston, PE – 21 years of experience	x	x		x	x	x
Keith Wetter, PE – 28 years of experience	x	x		x	x	x
Glenn Knak, PE – 37 years of experience			x			
Dana Augustine, PE – 27 years of experience	x	x		x	x	
Omeed Mollaian, PE – 19 years of experience			x			
Robert Cleere, PE – 19 years of experience			x			
Mark Hartegan, PE – 18 years of experience	x			x	x	x
Travis Rapp, PE – 9 years of experience	x			x	x	
Josh Gamage, PE – 7 years of experience	x		x	x	x	
Pete Young, EI – 2 years of experience	x			x	x	

Bridges our current staff has designed for the MoDOT Bridge Division include:

Northeast District

- Route 36 over Route 61 in Marion County (new steel bridge)

Kansas City District

- I-35 over Southwest Boulevard (3 streets & railroad), Jackson Co. (bridge rehabilitation)
- 22nd Street over Bruce R. Watkins’ Drive, Jackson Co. (new steel bridge)
- Troost Avenue over 22nd St. & Bruce R. Watkins’ Drive, Jackson Co. (new curved steel bridge)
- U.S. 71 (I-49) Ramp S-E over Hickman Mills Drive, Jackson Co. (new curved steel bridge)
- U.S. 71 (I-49) Ramp S-W over Ramp RB-N, Jackson Co. (new curved steel bridge)
- U.S. 71 (I-49) Ramp W-S over Ramp N-RB, Jackson Co. (new curved steel bridge)
- SB U.S. 71 (I-49) over Red Bridge Road, Jackson Co. (new steel bridge)
- NB U.S. 71 (I-49) over Red Bridge Road, Jackson Co. (new steel bridge)
- NB I-29 over Bee Creek, Platte Co. (deck replacement)
- SB I-29 over Bee Creek, Platte Co. (deck replacement)

- NB I-29 over Platte River Overflow, Platte Co. (deck replacement)
- NB & SB I-29 over Line Creek, Platte Co. (deck replacement)

Central District

- Rt. 17 over Brushy Fork, Miller Co. (new P/S concrete bridge)
- Rt. 17 over Barren Fork, Miller Co. (new P/S concrete bridge)
- Rt. 32 over Osage Fork of Gasconade River, Laclede Co. (substructure for concrete P/S bridge)

St. Louis District

- Railroad Bridge over Rt. T, Franklin Co. (new concrete P/S bridge)

Southwest District

- Interstate I-44 Jasper Co. (rehabilitation and widen 12 bridges)
- U.S. 71 (I-49) Northbound over Marmaton River, Vernon Co. (widen and replace deck)
- U.S. 71 (I-49) Northbound over Douglas Branch, Vernon Co. (new concrete P/S bridge)

Southeast District

- I-55 NB over Headwater Diversion Ditch, Cape Girardeau/Scott Co. (new P/S concrete bridge)
- Rt. CC over Inter River Drainage Ditch No. 31, Butler Co. (new concrete slab bridge)
- Rt. N over Fish Trap Slough, IRDD No. 30, Butler Co. (new P/S concrete slab bridge)
- Rt. N over Swan Pond, IRDD No. 27, Butler Co. (new concrete slab bridge)
- Rt. N over Cache River, IRDD No. 28, Butler Co. (new concrete slab bridge)

These projects, and others we have done for the DOTs in Kansas and Oklahoma, have utilized federal funding and federal guidelines were followed. Several of these bridges also had tight timeframes which Lochner always adhered to.

Lochner recognizes that the importance of a project is not always reflected in its size. Often, important issues may require only a small effort, but must be addressed quickly. Our staff is accustomed to providing on-call services to clients for a variety of services. We currently have contracts for on-call services for MoDOT Fracture Critical Bridge Inspection, KDOT Traffic Engineering Assistance Program, KDOT Bridge Design, KDOT Construction Observation, Overland Park, Kansas Structural Engineering, and the Unified Government of Wyandotte County/Kansas City, Kansas, Transportation, Structural and Traffic Engineering.

Lochner values diversity as an integral part of our business and shares the Missouri Department of Transportation's commitment to diversity, as demonstrated by our maintaining a diverse workplace with women and minorities and by consistently exceeding the DBE goals on our projects. It is the policy and practice of Lochner to ensure equal employment opportunity and we have a written Affirmative Action Plan for females and minorities, Vietnam Era veterans and qualified individuals with disabilities.

We are excited about the opportunity to provide On-Call Structure Design Services to Missouri LPAs. If you have any questions regarding our qualifications, please call us at 816-363-2696.

Sincerely,

H.W. LOCHNER, INC.



Steven K. Hileman, PE
Vice President, Senior Transportation Engineer

SKH/rp

OFFICES

New Haven, CT
 Rocky Hill, CT
 Brooksville, FL
 Miami, FL
 Tallahassee, FL
 Tampa, FL
 Boise, ID
 Chicago, IL (Corporate HQ)
 Lisle, IL
 La Porte, IN
 Salina, KS
 Lexington, KY
 Kansas City, MO
 Raleigh, NC
 Newburgh, NY
 Utica, NY
 Oklahoma City, OK
 Thornhill, ON
 Pittsburgh, PA
 Franklin, TN
 Dallas, TX
 Round Rock, TX
 Tyler, TX
 Salt Lake City, UT
 St. George, UT
 Bellevue, WA
 Lacey, WA
 Olympia, WA

Our Firm

Established in 1944, Lochner is an employee owned and operated engineering firm with 27 offices nationwide. We are listed among ENR's top 500 firms, and have a rich history as an innovator in transportation and infrastructure. Lochner employs approximately 500 civil and structural engineers, urban planners, environmental scientists, design technicians and support professionals. Our talented team of specialists includes some of the most respected experts in the industry.

Our People

Our civil and structural engineers, planners, environmental specialists and inspectors bring the state-of-the art expertise and skills to deliver the valuable services our clients need.

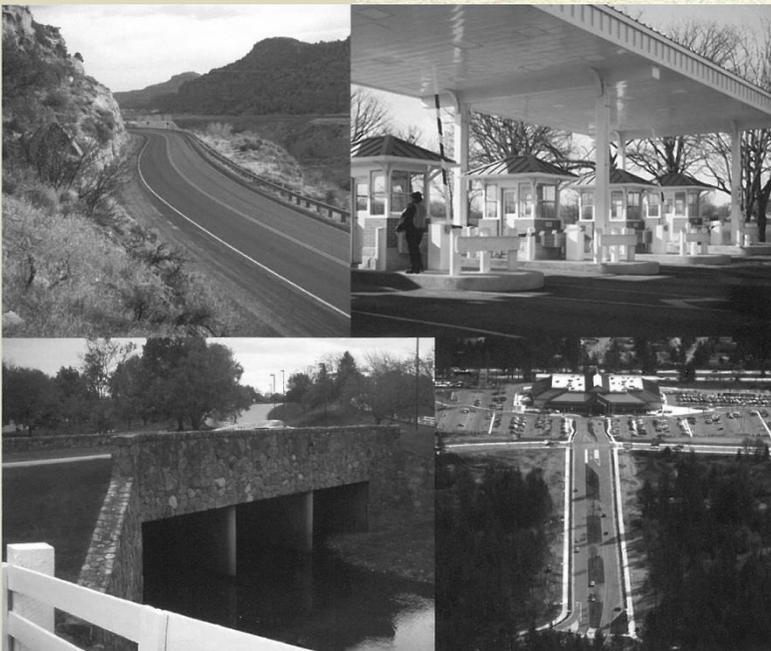
Our Commitment to Our Clients

At Lochner, we offer more than just design, planning, construction and inspection services—we become a partner in achieving goals. Working with our team, our clients receive discerning attention to the details that matter most. We work consistently to provide professional services and technical solutions to meet project needs, on schedule and within budget.

Our Services

Our professionals bring creative, cost-effective solutions to our public- and private-sector clients through every phase of a project—from planning and design to construction and inspection services. Our professional services include:

- Highway & Roadway Design
- Rail & Transit
- Construction Management & CEI
- Airport Planning & Design
- Multi-Modal Planning & Design
- Hydraulics & Drainage Design
- Public-Private Partnership (P3) Services
- Design-Build Services
- Public Involvement
- Context Sensitive Solutions
- Planning & Environmental Studies
- Brownfields Services
- Utility Coordination & Relocation
- Traffic Engineering & Transportation Planning
- Parks & Recreation Planning & Design
- Electrical Design
- Federal Services
- Municipal Services



Highway and Roadway Design

Highway and roadway design, and the planning and construction administration of these projects make up the backbone of Lochner. As a firm, Lochner developed the original expressway and bypass plans for more than 30 major cities in the United States. Today Lochner continues as a well-respected innovator on roadway projects.

Our highway and roadway services include:

- Design studies
- Context sensitive approach
- Right-of-way acquisition services
- Design-build services
- Innovative design and technology
- Environmental analysis and documentation
- Public and agency involvement programs
- Alternative analysis
- Multi-phased maintenance of traffic plans
- Construction plans
- Street and pedestrian lighting
- Traffic modeling and forecasting
- Traffic signal design



"Having worked on projects that involve Lochner's Right-of-Way and Environmental Assessments work, they have performed with the utmost professionalism and integrity while successfully bringing projects to completion."

- Bart Bryant, Chief District Engineer of Kentucky Department of Highway Nine District

Construction Management and CEI Services



Lochner offers highly qualified construction experts in contract administration, traffic maintenance, safety and construction engineering and inspection troubleshooting. As our clients' lead representative on the project site, we know that it is our job to ensure approved design satisfaction and the availability of solid field engineering to contractors and construction crews throughout the building process.

Construction management and CEI services include:

- Quality assurance and quality control
- Field inspection and engineering
- Safety, Equal Employment Opportunity (EEO) and Disadvantaged Business Enterprise (DBE) compliance
- Claims avoidance
- Materials testing and inspection
- Horizontal directional drilling



Bridge Design Services



Red Bridge Road over Blue River & Union Pacific Railroad, KCMO

Lochner's nationally integrated staff includes engineers and specialists who offer top-notch structural design expertise, from simple to complex structures, including extensive experience on mega-projects. Our proactive approach, responsiveness to the needs of our clients, and construction engineering experience allow us to bring value-added elements to our projects.

Lochner provides innovative design solutions utilizing new construction techniques, materials and delivery methods to develop efficient, cost effective structural designs. With experience providing services for state and municipal government agencies, railroads, contractors and private developers, Lochner's structural design services include:

- New, rehabilitated and widened highway, railroad and pedestrian bridges, with complex geometry and staging
- Superstructures including steel box and I-girders, steel and concrete arches and prestressed concrete girders
- Substructures including cantilever and integral abutments, hammerhead and multi-column piers
- Temporary construction works, including shoring, support of excavation and cofferdams
- Foundations including spread footings, piles and drilled shafts
- Retaining walls and noise walls
- Culverts and pedestrian underpasses
- Seismic analysis and design
- Accelerated bridge construction techniques
- Overhead sign and signal support structures
- Load rating of existing bridges
- On-call and emergency structural support services
- Structural aesthetic enhancements

"Lochner skillfully develops strong working relationships with project stakeholders including cities and UDOT, which ensures that projects move forward efficiently and hurdles are overcome effectively."

- Shane Marshall,
Utah Department of Transportation

Bridge Inspection Services

As a leading provider of bridge inspection services, Lochner offers a full range of inspection capabilities and significant field experience. Lochner currently staffs inspection team leaders and program managers in accordance with National Bridge Inspection Standards (NBIS) certification criteria. Bridge inspection expertise includes:

- Structural inspections of fixed and movable bridges, overhead signs, high-mast light poles and traffic signal mast arms
- Routine NBIS safety inspections
- Fracture critical member inspections
- Post-tensioned box girder inspections
- Special feature/damage inspections
- Major river bridge inspections
- Element level (PONTIS) inspections
- Non-destructive testing
- Special gusset inspections
- Load rating analysis
- Bridge scour evaluations and analysis



Planning and Environmental Studies

Lochner covers the entire planning and environmental spectrum, from long-range planning to concept plans, feasibility studies, as well as National Environmental Policy Act (NEPA) compliance and support for post-NEPA activities during final design and beyond.

Lochner's planning and environmental studies expertise includes:

- Community planning
- Public involvement
- Natural systems analysis
- Physical impact analysis
- Human environment analysis
- Database management and documentation preparation
- Development of permit applications
- Context sensitive solutions and design
- NEPA documentation for FHWA, FTA and FRA
- Program management and oversight
- Rail planning
- Sustainability



Cassville Master Plan for Growth, Cassville, Missouri

"While their technical skills are evident, what sets Lochner designers apart is their commitment to do the right thing for the department, the environment and the public."

- Rob Wight, PE, Utah Department of Transportation

Aviation Engineering, Planning, Environmental and Construction

Lochner's knowledgeable aviation staff has a full understanding of airport functions and operations. We have the ability to phase projects and construction services with minimal impact to day-to-day operations. Our work in aviation spans 40 years. We hold engineering and planning experience covering more than 1,000 projects involving nearly every aspect of airport development, including general aviation, basic transport, reliever, commuter, small air carrier and major hubs.

Lochner provides our clients the following aviation services.

- Airport master plans/layout plans
- Airport design
- Construction services
- Environmental services
- Land acquisition
- Fuel facilities
- Maintenance vehicle acquisition
- Navigational aid design
- Hangars and administrative facilities
- Wildlife assessments
- Municipal, state, federal coordination and funding compliance
- Pavement management/maintenance plans
- Landside design



Jesse Viertel Memorial Airport, Boonville, Missouri

"Lochner did a great job on the complex, multi-phased Kerrville Airport parallel taxiway relocation project."
- Harry Lorton, TxDOT