



**Missouri's
Local
Program**
*for community
development*

COVER SHEET

(This must accompany your firm's letter of interest and does not count in the page limit)

Firm's Full Legal
Name:

H.W. Lochner, Inc.

Firm Contact Name:

Mark Johnston, PE

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Work Category:

- Roadway Design
- Trails & Sidewalks
- Construction Inspection
- Traffic Engineering & TEAP
- Structures
- Environmental
- Historic Preservation
- Multimodal Planning / Systems and Facilities Design
- Transportation Planning – **NEW CATEGORY**

December 12, 2025

MoDOT Central Office - Local Program
105 West Capitol Avenue
P.O. Box 270
Jefferson City, Missouri 65102

RE: Missouri LPA On-Call Professional Services - Roadway Design

For the Missouri Local Program's 2026-2029 On-Call solicitation, Lochner seeks to submit our qualifications for the [Roadway Design Work Category](#). As an approved, prequalified roadway design consultant, Lochner looks forward to continuing our successful relationship with Local Public Agencies (LPA) by providing these services from our Kansas City Metro office.

GENERAL EXPERIENCE OF THE FIRM

Founded in 1944, Lochner is a transportation engineering firm headquartered in Chicago, IL, with 1,200 professionals across 48 offices in 22 states. Our Kansas City Metro office has been in service since 1957 and we employ more than 55 professionals comprised of transportation engineers, construction specialists, and technical and administrative support staff. The experience the Lochner Team has gained over these years in providing innovative and practical design services for the Missouri Department of Transportation (MoDOT) and LPAs will serve as a valuable asset throughout this contract.

FAMILIARITY/CAPABILITY

Lochner has provided roadway and bridge design services in Missouri since 1957. Some of our more recent project experience with MoDOT includes the grading, paving and traffic control plans associated with bridge projects in Saline, Pulaski, and Vernon Counties. Our approach for providing roadway design services to LPAs under this agreement includes the evaluation of each project element, using sound engineering to assess the overall need and delivery of the roadway construction documents for the planned improvements. The fundamental elements will include a start to finish product beginning with the development of the roadway geometrics through final plans and specifications to be released for construction.

Our team will utilize our years of local roadway design experience to deliver a project that best fits your needs and budget. This work will include the elements outlined in the RFP under the Roadway Design category, as well as 3D visualization modeling, imagery, simulations, and video sequences, innovative delivery methodology, and

planning and conceptual studies. Lochner was previously under contract with the Kansas DOT (KDOT) for five years, to help them transition from GEOPAK to CONNECT-enabled workspace and file management for Bentley's OpenRoads Designer (ORD). Through that program, Lochner worked as an extension of the KDOT CAD team, assisting with all the challenges of rolling out a new workspace, training users on new workflows, migrating legacy projects, and preparing for a future integration of 3D model deliverables.

Our comprehensive approach begins with collecting necessary data, including obtaining available record drawings, obtaining utility information, and determining right-of-way. We may also conduct a preliminary design field review where our team will visit the project site, with stakeholders if available, and evaluate as many unique features, considerations or conflicts as possible. Once completed, we will begin preliminary design, starting with a kick-off meeting to finalize project scope, based on the field review and expectations and from there we will establish design criteria and milestone dates. Once preliminary geometrics from the agreed upon scope are established, a utility meeting will be conducted to introduce all utility agencies to the proposed project, expected impacts, and timeframe for completion.

A preliminary set of roadway plans and an "order of magnitude" cost estimate will be submitted for review when preliminary design is completed. Once we receive preliminary comments, Lochner will proceed with final design. Final plans, specifications, and estimates are expected as the project deliverable. Our team is experienced and proficient in completing the roadway design and construction documents necessary for planned improvements.

QUALIFICATIONS OF PERSONNEL

Lochner assembled a team of highly-skilled professionals to meet on-call contract requirements, as shown below.



Principal-in-Charge Mark Johnston, PE | Mark has 32 years of transportation experience and will be the primary point of contact for the on-call services. He has served as project manager and principal-in-charge for numerous projects involving roadway and bridge design services.



Project Manager Jeff Drees, PE | With 17 years of experience, Jeff is experienced in project management, roadway geometrics, surface/site modeling, traffic control, quantity and cost estimates, notes and specifications, safety design, signing layouts, storm sewer and drainage structures, and ADA compliance. He has managed many design projects including widenings, reconstructions, and rehabilitations on freeways, interchanges, state highways, urban arterials, and local streets.



QA/QC Manager Mike Zorn, PE | Mike has more than 27 years of civil engineering experience for transportation and site development projects. To ensure high-quality and timely reviews, Mike incorporates Bluebeam software to streamline the review process, allowing real time updates, and eliminating conflicting comments between reviewers.



Roadway Design Rex Ritter, PE | Rex has 10 years of experience in roadway design, including storm sewer and drainage structures, culvert design, roadway geometrics, intersection design, surface/site modeling, temporary traffic control, erosion control, pavement marking, permanent signing, ADA compliance, and quantity and cost estimation.



Roadway Design Kenny Rich, EIT | With more than 20 years of civil engineering experience, Kenny provides the design of horizontal and vertical alignment, cross sections, concrete and asphalt pavements, signing, pavement marking, and traffic control for roadway projects.



Roadway Design Marissa Fields | Marissa joined Lochner as a full-time engineer in January 2025 after completing a summer internship in 2024. She provides roadway design services for clients in Missouri and Kansas.



Roadway Design Eric Rodriguez, EIT | Eric is an experienced roadway designer with an extensive background in utilities. He has a diverse resume of projects that include rural highways, urban arterial roads, interstates, interchanges, and bridges.



Roadway Design & 3D Modeler Ghazal Sokhansefat, PhD, PE | With 11 years of experience, Ghazal uses ORD, Drainage and Utilities, iTwins, LumenRT, ArcGIS, and other Bentley and Esri products, combined with the latest digital delivery strategies to develop roadway designs from project start to the construction phase. Her expertise includes establishing horizontal and vertical geometries, storm sewer analysis, culvert design, signing and striping plans, traffic control, and environmental/erosion control plans, as well as ADA accessible sidewalks, shared-use paths, and bicycle facilities.



3D Visualization Dan Tomaszewski | Dan's 16 years of experience includes developing design-level mapping and topographically accurate 3D visualizations and animations for various highway, bridge, and structural design projects across the country. These visualizations are used to present proposed design scenarios for improvement projects.



Traffic Engineering Brad Lucas, PTOE | With more than 30 years of experience, Brad is an expert in roadway, freeway, ITS, lighting, signing, striping, traffic control and intersection design, including signals, roundabouts, CFIs, limited access, SPUIs, and diamond interchanges. He is also proficient in traffic analysis and simulation.



Traffic Engineering Matt Daeda, PE, PTOE | Matt has 23 years of expressway traffic engineering, construction, and highway operations. He brings extensive depth of knowledge in traffic control and internal procedures and contract requirements.



Utility Coordination & Relocation Design Chad Lawson, PE | Chad's 26 years of experience includes the design of street and highway improvement projects. He has designed drainage and storm sewer improvements for various clients as well as utility relocations for street and roadway projects.

PAST PERFORMANCE

Lochner has completed roadway and bridge designs for Missouri LPAs for more than 60 years. For the past 20 years from our Kansas City Metro Office, Lochner has completed design services, as well as prepared construction plans and specifications, for numerous roadways and bridges across the state. Each completed project included a focus on combining practical design with innovative solutions to cut construction costs and reduce time of construction.

KCMO Public Works Department North Brighton Road | Kansas City, MO | Lochner prepared preliminary and final design for two miles of four-lane divided arterial street. This \$26 million project carried traffic through construction and included utility relocations, new water mains, streetlights, landscaping, storm drainage, box culvert, and modifications to 15 intersecting side streets and 47 driveways.



City of Olathe Wabash Street | Olathe, KS | Lochner designed approximately 1,000 linear feet of residential street reconstruction. As part of the City's 2019 Street Reconstruction Program, Wabash Street from Parker Street to Troost Street was reconstructed to a 28-foot back-to-back street section with curb and gutter, street lights, driveway approaches, enclosed storm sewer system upgrades, ADA compliant sidewalk ramps, and sidewalks on one side.



KCMO Parks Department Red Bridge Road Complete Street | Kansas City, MO | Lochner performed preliminary engineering, public involvement, and final design to convert a half-mile segment of two-lane roadway to a divided four-lane facility, including design of five-foot-wide sidewalk, 10-foot-wide multi-use trail, street lighting, upgraded transit stops, landscaping, water main replacement, new and upgraded traffic signals, and improved drainage.



MoDOT I-44 Bridge Deck | Newton, MO | Lochner provided preliminary and final design for the redeck/rehabilitation of I-44, which involved final roadway design. The project required a specialized traffic-control sequence to maintain two lanes in each direction during construction on heavily traveled I-44 near south Joplin. To achieve this, westbound traffic was split, with one lane maintained on the phased westbound bridge and the other temporarily shifted to the eastbound bridge, which accommodated three lanes.



MoDOT Route 127 over Robertson Creek & Route EE over Salt Branch | Saline County, MO | Lochner provided preliminary and final design for the replacement of two concrete slab bridges. Our scope included alignment studies, grading, paving and drainage design, new guardrail installation, detour plans, and permanent signing and marking.



ACCESSIBILITY OF FIRM & STAFF

Mark Johnston, PE, will be your primary point of contact to initiate an on-call project. However, to be more responsive to project needs, LPA staff can communicate directly with their Lochner counterparts once a project begins. Project Manager Jeff Drees, PE, will be available to the LPA for all coordination needs and will direct the Lochner design team during production of their assignments. At the onset of an assigned project, the LPA will be provided with a list of staff working on the project and their contact information.

We look forward to continuing providing on-call roadway design services to Missouri's LPAs. If you have any questions regarding our qualifications, please don't hesitate reach out.

Sincerely,



Mark Johnston, PE | Vice President | mjohnston@hwlochner.com | 816.945.5840

OUR FIRM

Established in 1944, Lochner is a client-focused, performance-driven and community-minded engineering firm with 48 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 more than 1,200 civil and structural engineers, urban planners, environmental scientists, design technicians, constructional personnel, 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 OFFICES

Headquartered in Chicago, Lochner has 48 offices located across the nation. Our Missouri clients are served from our Kansas City Metro office.



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
- Construction Management & CEI
- Bridge Design & Inspection
- ITS Management, Design, & Operations
- Airport Planning & Design
- Planning & Environmental Studies
- Rail & Transit
- Multi-Modal Planning & Design
- Hydraulics & Drainage Design
- Public-Private Partnership (P3) Services
- Design-Build Services
- Public Involvement
- Utility Coordination & Relocation
- Traffic Engineering & Transportation
- Water & Wastewater

CONSTRUCTION MANAGEMENT & 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.

"I want to thank you for taking care of this for us. I have dealt with many engineers on many projects and those that take care of the reimbursements and things are wonderful. It takes so much off my plate and I don't worry about any of it. So thank you for all of your assistance with this. It's been a pleasure working with you."

- Jackie Pangborn, City Administrator, Monroe City, MO



HIGHWAY & 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 has 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.

"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, Kentucky Department of Highway



BRIDGE DESIGN & INSPECTION

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 has been a consultant for the City of Independence for many years. The City has always been pleased with the quality of services and professionalism received from Lochner and their team."

- Mike Conway, City Engineer, Independence, KS

TECHNOLOGY

Lochner leverages advanced technologies and proven methodologies to optimize efficiency, safety, and decision-making across every phase of infrastructure projects—from planning and design to operations and maintenance. Our expertise spans asset management, communication systems, drone technology, electrical and control systems, ITS, and 3D visualizations. From capturing and analyzing asset data to deploying intelligent transportation solutions and leveraging aerial and digital tools, we help clients reduce costs, extend asset life, and ensure reliability—delivering smarter, future-ready infrastructure.



PLANNING & ENVIRONMENTAL STUDIES

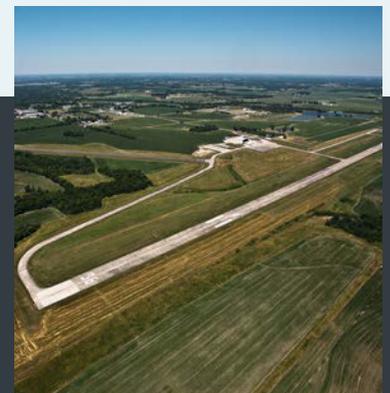
Lochner covers the entire planning and environmental spectrum, from long-range planning to concept plans, feasibility studies, as well as National Environmental Policy Act (NEPA) compliance and support for post-NEPA activities during final design and beyond.

AVIATION ENGINEERING, PLANNING, ENVIRONMENTAL, & 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 over 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.

"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, Utah Department of Transportation



Below is a specified breakdown list of each subcategory of services and expertise that Lochner offers.

HIGHWAY & ROADWAY DESIGN

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

AVIATION ENGINEERING, PLANNING, ENVIRONMENTAL, & CONSTRUCTION

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

TECHNOLOGY

- Asset management
- Communication systems
- Drone technology
- Electrical/instrumentation & control systems
- Intelligent Transportation Systems (ITS)
- Visualizations

PLANNING & ENVIRONMENTAL STUDIES

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

BRIDGE DESIGN & INSPECTION

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

CONSTRUCTION MANAGEMENT & CEI SERVICES

- Quality assurance & quality control
- Field inspection & engineering
- Safety, Equal Employment Opportunity (EEO) & Disadvantaged Business Enterprise (DBE) compliance
- Claims analysis
- Materials testing & inspection