



**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: Lochmueller Group, Inc.

Firm Contact Name: Scott J. Smith

Contact Email

Address: ssmith@lochgroup.com

Firm's Mailing Address: City Foundry (399 South Spring Avenue, Ste. 208 B)

St. Louis, MO 63110

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 Programs Administrator
LPAoncall@modot.mo.gov

RE: MoDOT LPA On-Call Services - Letter of Interest for Traffic and TEAP

Dear Members of the Selection Committee:

Lochmueller Group (Lochmueller) understands the importance of selecting a firm that can provide exceptional traffic engineering in all phases. At Lochmueller, we leverage comprehensive data analysis, the latest planning tools, and will meaningfully engage with MODOT's diverse stakeholders to deliver deep insights for sound, strategic decision-making. Our team thoughtfully evaluates transportation for all modes and key factors shaping safety risks and outcomes. We are adept at addressing systemic problems and recommending the highest number of safety improvements in the most economical way possible. We make no assumptions about your community's needs and will deliver a data-driven approach complementing MODOT's in-depth local knowledge.



General Experience of Firm

Lochmueller is a distinguished, multi-discipline firm that has provided expert transportation and infrastructure solutions to public agencies for over 40 years. We offer a full suite of services including all aspects of transportation engineering as well as planning, right-of-way acquisition/appraisal, and environmental evaluation. We have more than 420 employees distributed across 17 offices around the Midwest, including 55 professionals in our two St. Louis area offices in addition to our newest Overland Park, KS office! These offices are staffed by personnel who have spent many years working in the region, often with MoDOT. Our Missouri professionals are committed to furthering our relationships with MoDOT.

Our roster includes 33 team members who are solely devoted to traffic engineering and transportation planning, with 5 individuals certified as planners (AICPs), 16 PTOE's, and 5 Road Safety Professionals (RSPs). Throughout their careers, Lochmueller's Traffic Engineering and Planning Team has completed dozens of transportation plans, including pedestrian and bicycle plans, freight plans, safety plans, travel demand model development, transit evaluations, traffic calming studies, corridor plans, and long-range transportation plans. We have long-standing relationships with MoDOT staff, enabling us to communicate and work together effectively. We have performed numerous projects for MoDOT's St. Louis, Central, and Southeast Districts in the past several years.



Past Performance

Lochmueller's experience includes traffic impact studies, VISSIM simulation modeling, ATSPM and signal timing projects, corridor evaluations, safety studies, intersection and parking studies, sign inventories, speed limit reviews, and bicycle and pedestrian route analyses for a variety of public agencies. It also includes the design of traffic signal installations and modifications, ITS improvements, signing, lighting, and pavement marking plans. A brief sample of our most recent project experience includes the following:

Kingshighway Blvd. Arterial Safety Improvements for STLBPS: The study included the entire 9.2-mile corridor from West Florissant Avenue south to Gravois Avenue. The project was largely funded with American Rescue Plan Act monies (ARPA), and therefore had an aggressive schedule for each task within the project. Lochmueller Group employed a large staff, set internal deadlines, and held internal coordination meetings weekly to efficiently and effectively keep the project on track and agile when challenges and opportunities presented themselves. The goal of the initial traffic study was to analyze the corridor from a safety and capacity perspective to recommend improvements to right-size the road's available capacity for current demands, improve safety of pedestrians, provide new or upgraded bicycle facilities where appropriate, and identify additional traffic calming countermeasures for the roadway. The corridor was broken up into 7 different segments for analysis. Two of these segments had been previously studied under the current Traffic Services On-Call contract, however these designs were only vetted at the conceptual level and were subject to new reviews.

399 S. Spring Avenue, Suite 208 B, St. Louis, Missouri 63110

PHONE: 314.621.3395

SS4A Supplemental Planning Activities for the City of Kirkwood, MO: Following the adoption of its Vision Zero Action Plan (VZAP), the City of Kirkwood (with assistance from Lochmueller Group) applied for and was awarded funding through the USDOT's Safe Streets and Roads for All (SS4A) grant program to undertake four supplemental planning activities: a Safe Routes to School Plan, a Citywide Speed Limit Study, the Southeast Kirkwood Community Connectivity Plan, and the Performance Measure Evaluation and Dashboard. These planning activities advance the Kirkwood's VZAP by identifying specific policy, programming, and infrastructure recommendations to improve safety for all road users, with a focus on vulnerable road users like people walking, bicycling, and accessing transit.

Safety Action Plan for SEMPO: Lochmueller provided traffic engineering and planning services to SEMPO for the creation of a CSAP. The primary goal was transportation safety for all, including vulnerable road users. The SAP was built with the goal of reducing and eliminating roadway fatalities and serious injuries and was created as a unified platform, which SEMPO and its local agency partners can use to develop projects that save lives. We began with a comprehensive crash analysis, in which we collected and reviewed crash data from MoDOT and existing SEMPO data from the past six years for all public roads to determine existing conditions and trends. Using key metrics to create a safety index score, we utilized the index score to identify a HIN to prioritize locations for future safety improvements and achieve the largest impact and reduction in fatal and serious injury crashes.

Ozarks Transportation Organization (OTO) Safety Action Plan: Lochmueller provided traffic engineering and planning services to OTO for the creation of a Transportation SAP. The primary goal was transportation safety for all including vulnerable road users. The goal of the SAP was to reduce and eliminate roadway fatalities and serious injuries, particularly in areas with vulnerable road users. OTO provided Lochmueller with an existing HIN, which was reviewed and imported for use. In addition to the HIN, we also analyzed high-risk roadway features to assess safety risk along different roadway types.

Safety Design-Build for MoDOT St. Louis District in Franklin & St. Charles Counties: As a design-build project, Lochmueller partnered with a contractor to determine how to maximize the impact of the project's \$24 million budget. Lochmueller reviewed safety research reports and data from the Crash Modification Factor (CMF) Clearinghouse in order to identify potential high-impact, low-cost countermeasures applicable to each location. Our research identified 74 additional CMFs to potentially implement; MoDOT and FHWA approved 45 for use on this project. The proposed improvements included fluorescent curve signs, intersection conflict warning systems, transverse rumble strips, right-turn angle improvements, high-friction surface treatments, and high-tension cable. Based on the scoring of the design-build proposals, the Lochmueller Team was selected as the highest-value proposal in terms of maximizing the crash reduction for the project's \$24 million budget.

Safety Action Plan for St. Charles County: Lochmueller led a consultant team tasked to develop a data-driven Strategic Highway Safety Plan (SHSP) identifying high-frequency and high-severity crash locations within the County, along City- and County-owned roadways and state lettered routes, focusing on reducing crashes through the selection of site-specific, practical, and innovative countermeasures, along with systemic safety improvements.



Qualifications of Personnel

Lochmueller's traffic engineering group has over 33 staff with the qualifications to serve any traffic-related needs. The **principal members** of our team that would be available to MoDOT are listed as follows:

Chris Beard, PE, PTOE, has 20 years of traffic engineering and planning experience, and he currently manages the firm's Traffic Engineering and Planning team. Throughout his career, Chris has supported public agencies, private entities, and communities at large with identifying transportation problems and developing cost-effective and implementable solutions. His experience includes campus transportation plans, traffic impact studies, traffic signal timing and optimization, corridor planning, interchange studies, design-build project delivery, regional transportation plans, Downtown transportation plans, parking studies, transit studies and ridership forecasting, pedestrian and bicycle facility planning, and transportation model development. Chris also specializes in applying state-of-the-art modeling tools to evaluate complex transportation systems and generate performance metrics to inform decision-making and project programming.

Tyson W. King, PE, PTOE, RSP2i, has 22 years of traffic/transportation engineering experience. He possesses a diverse background in transportation, which includes management of transportation improvement projects, traffic signal design/review and troubleshooting, signalized corridor optimization, and Intelligent Transportation System (ITS)

deployment and operation. He is also experienced with the operation of Econolite, Siemens, Intelight, and McCain traffic signal controllers, as well as network management software such as ACTRA, TACTICS, and TransSuite ATMS.

Kelly Schaefer, PE, PTOE, Kelly's background in traffic engineering includes regional expertise for signal operations, signal design, traffic calming and safety studies, and municipal engineering as on-call support for analysis, design, maintenance, and general questions and support. Kelly works closely with several LPAs in Missouri and Illinois on an on-call basis. She has helped agencies with capacity and safety studies, feasibility studies of road diets, traffic calming recommendations, signal turn-ons, maintenance of everyday traffic signal operations, and more.

Peter Williams, AICP, GISP, is a certified Urban Planner and GIS professional with a passion for fostering equitable, healthy, and active communities. Peter's skills, including GIS-based analysis and mapping, project planning, technical writing, and creative problem-solving, make him a tremendous asset to the action planning process.

Heidi Thomas, PE, has a comprehensive understanding of CSAPs and funding challenges. Her vast knowledge of federal regulations and INDOT policies allows her to provide clear and accurate guidance to advance projects, answer questions, and ensure all funding authorizations meet eligibility requirements prior to approval.

Pouya Yousefzadeh is an experienced Traffic Engineer with a strong background in transportation planning, traffic analysis, and project management. He is proficient in overseeing traffic simulation modeling projects, safety, providing quality assurance, and leadership to junior staff.

Danielle Strothmann, PE, PTOE brings 10 years of versatile experience in traffic and transportation engineering across both private and public domains. Her professional work includes conducting traffic studies, signal timing and optimization, corridor planning, and designing pedestrian and bicycle facilities with ADA compliance. Specializing in innovative intersection and interchange analysis, she prioritizes traffic safety by adeptly utilizing software like MicroStation, Synchro, Sidra, Highway Capacity Software, and AutoTurn.

Sarah Baty, PE, PTOE, RSP2i, Sarah's technical experience in transportation planning, traffic capacity analysis, alternatives analysis, project scoping, and simulation modeling will be a crucial component of MoDOT's On-Call consultant services for traffic, safety, and operations.



Familiarity/Capability

This group has completed dozens of traffic engineering projects in the St. Louis, Northeast, Southeast, Southwest, and Central regions of the state and is familiar with the traffic issues and personnel in those areas as well as the requirements of the Engineering Policy Guide. We have strong relationships with MoDOT and municipal representatives, having worked directly for MoDOT or having made submittals to MoDOT on behalf of others, and our staff is very familiar with MoDOT On-Call and Federal funding protocols. We continually provide training opportunities to our staff and utilize the latest tools available. When needed, we have the ability to employ sophisticated travel demand modeling and/or simulation modeling tools, which have facilitated our involvement in innovative solutions such as CFIs, DDIs, roundabouts, and arterial management.



Accessibility

Lochmueller has successfully completed many traffic engineering assignments within a 150-mile radius of St. Louis. Our staff is highly responsive, mobile, and readily available for new challenges. We take pride in being accessible and responsive to MoDOT, prioritizing communication and timeliness, and applying the same urgency that is typically imposed by our private clientele. We have the capacity to work concurrently on multiple assignments.

Thank you for the opportunity to submit our qualifications. Please feel free to call me at 314.230.7983, or my cell phone at 314.941.6657.

Sincerely,

Lochmueller Group, Inc.

Scott J. Smith, PE

Vice President & Western Market Leader

DELIVERING A
BETTER TOMORROW
FOR ALL



Lochmueller Group specializes in infrastructure design for local and state agencies. We understand the challenges facing clients today and continually strive to maximize benefits at every stage of a project to provide sensible, sustainable, and constructable designs.



LEARN MORE
ABOUT US



Opening our doors in Evansville, Indiana in 1980, our company has expanded to numerous offices across Indiana, Illinois, Ohio, Kentucky, Missouri, Kansas, and Texas. Over the years, Lochmueller Group has received many awards and recognitions for our work, including being named one of the Top 500 Firms by the Engineering News-Record (ENR). With a commitment to excellence and a dedication to our clients, Lochmueller Group has established itself as a leading engineering firm in the industry.

OUR SERVICES

Highway & Road Design

- » Highway/Interstate, Road Design
- » Complete Streets/Multi-Modal Facilities
- » Streetscape
- » Signage, Striping & Pavement Markings
- » Sidewalks & ADA Compliance
- » Traffic Signals & Signal Systems
- » Roundabouts
- » Utility Coordination & Drainage

Structural Engineering

- » Bridge Replacement & Rehabilitation
- » Historic Bridge Rehabilitation
- » Overpasses & Interchange Ramps
- » Drainage Structures

Traffic & Engineering Planning

- » Traffic Impact Studies
- » Signal Timing/Optimization
- » Intelligent Transportation Systems
- » Safety Studies
- » Parking Studies
- » Intersection Design Studies
- » Feasibility Studies
- » Access Management Planning
- » Traffic Calming Solutions
- » Transit-Oriented Development
- » Traffic Simulation Modeling
- » Multi-Modal Planning
- » Transportation Forecasting
- » Corridor Studies
- » Long-Range Transportation Planning
- » Community Transportation Planning
- » Travel Demand Modeling

Environmental Studies

- » NEPA Studies & Documentation
- » Indirect & Cumulative Impacts Analysis
- » Socioeconomic/Community Impacts
- » Noise Analysis Modeling & Barrier Studies
- » Section 106 & Section 4(f) Documentation
- » Stream Assessments, Design & Mitigation for Water Quality & Biota, & Restoration
- » Karst Studies
- » Field Surveys for Animals, Plants & Ecosystems
- » Threatened & Endangered Species Consultation
- » Erosion Control Inspection & Reporting
- » State & Federal Water Permitting
- » Stormwater Permitting
- » Wetland Delineation, Design, Mitigation, Monitoring, & Maintenance

Water Resources

Stormwater

- » Master Planning
- » Drainage System Design
- » Green Infrastructure
- » Sediment & Erosion Control
- » MS4 Program Management & Assistance
- » Watershed Management
- » Regulatory Compliance
- » Permit Negotiations
- » Ordinance Management
- » Funding & Grant Procurement & Management

Water

- » Hydraulic Modeling
- » Master Planning & System Mapping
- » Capacity Development
- » Treatment Systems
- » Distribution Systems
- » Chemical Feed Systems
- » Storage Tanks
- » System Operations Evaluations
- » Regulatory Compliance
- » Source Water Protection Programs
- » Hydrogeological Services

Wastewater

- » Master Planning
- » Long-Term Control Plans for CSOs
- » Hydraulic Modeling
- » Wastewater Treatment Plants
- » Storage Tanks & Interceptor Sewers
- » Collection Systems
- » Pump Stations & Force Mains
- » Septic Tank Elimination Projects
- » Constructed Wetlands
- » Wet Weather Management
- » Operation Compliance & Assistance
- » Regulatory Compliance
- » National Pollutant Discharge Elimination System
- » Permit Negotiations
- » Funding & Grant Procurement & Management

Rail Design

Energy & Industrial

Survey & Right-of-Way

Urban Design &

Landscape Architecture

Construction Administration



LOCHMUELLER GROUP Electrical, Instrumentation, & Control Engineering Services

GENERAL & MASTER PLANNING SERVICES

- Preliminary engineering reports
- Planning phase load estimating
- Power system feasibility studies
- Renewable energy feasibility studies
- Capital cost estimation services

POWER, LIGHTING, & SYSTEM DESIGN

Power System Studies

- Power system studies
- Arc-flash hazard analysis
- Short-circuit analysis
- System protection and coordination studies
- Harmonic analysis
- Motor starting studies

Building & Site Power Design

- Medium- and low-voltage distribution systems
- Emergency and standby power generation systems
- Critical and uninterruptible power supply systems
- Renewable energy and storage systems
- Grounding and lightning protection systems
- Motor and motor control systems
- Power design to mechanical, industrial, and process equipment

Lighting System Design

- Area, site, and roadway lighting
- Interior and task lighting
- Photometric calculations

Specialty System Design

- Fire alarm systems
- Security, access control, and closed-circuit television systems

INSTRUMENTATION & CONTROL SERVICES

- Supervisory Control And Data Acquisition (SCADA) and HMI system design for initial designs, retrofits, and upgrades.
- Electrical, pneumatic, and hydraulic control system design
- Process and control strategy development
- Process and instrumentation diagrams
- Loop, ladder logic, and wiring diagrams
- PLC and DCS network design
- Control panel and rack design
- Instrument specification and selection

CONSTRUCTION SERVICES

- Bid evaluations
- Submittal process and review
- Witness testing, equipment, and system start-ups
- Site visits, construction observation, and reporting
- Operation and maintenance manuals



www.lochgroup.com

TRAFFIC & ENGINEERING PLANNING



Effective access, reduced congestion, enhanced livability, and cost efficiency all begin with smart planning and design. No matter the challenge, Lochmueller Group's skilled traffic engineers, travel demand modelers, and transportation planners are ready to help. We specialize in evaluating impacts, anticipating future demands, and delivering tailored solutions that blend practical insights with forward-thinking strategies to meet current and long-term goals.



Planning with Purpose, Supporting Every Step

Founded by planners, Lochmueller has been helping communities and clients reinvent their futures through thoughtful, actionable planning - planning based on their aspirations and supported by applicable data and the most accurate tools available. Over the years, we have added a wide range of services so today we can walk beside you every step of the way from comprehensive planning through construction engineering.



CHANGING DEMOGRAPHICS

Major shifts in how and where we live change travel patterns. The continuing migration of populations from rural communities to urban centers promises to increase congestion in heavily developed areas. Conversely, “disposable” development has contributed to sprawl and voids within urban cores. Understanding these trends and how they affect travel demand is vital to determining transportation needs.

FOCUS ON MULTIMODAL

Living closer to destinations makes alternative modes of travel more competitive. In turn, we must rethink how we manage facilities so they serve drivers as well as pedestrians, cyclists and transit users, and ensure they work together safely and efficiently.

DIVERSITY OF EXPERTISE

The Lochmueller’s Traffic and Engineering Team offers deep experience with small and large-scale projects and dedicated traffic engineers and planners who can work through the complete project life-cycle from Funding and Planning through Design to Operations. Our team has completed hundreds of studies and designs including many federally funded projects.

- Traffic Simulation Modeling
- Traffic Calming Solutions
- Travel Demand Modeling
- Corridor Studies
- Transit-Oriented Development
- Access Management Planning
- Long-Range Transportation Planning
- Community Transportation Planning
- Complete Streets/Multimodal Planning Safety Studies
- Parking Studies
- Intersection Design Studies
- Feasibility Studies
- Roundabout Analysis & Design
- Street & Roadway Design
- Traffic Impact Studies
- Streetscapes
- Signage, Striping, Highway Lighting, & Pavement Markings
- Sidewalk & ADA Design
- Traffic Signal & Signal System Design
- Signal Timing/Optimization
- Intelligent Transportation Systems
- Bridges & Structural Design
- Freight Studies

FOLLOW FOR MORE
INFORMATION



www.lochgroup.com

