



November 15, 2013

Mary Ann Jacobs
Missouri Department of Transportation

via email: MaryAnn.Jacobs@modot.mo.gov

RE: MoDOT LPA On-Call Services - Traffic & TEAP

Dear Ms. Jacobs:

Shafer, Kline & Warren, Inc. (SKW) is excited to present our qualifications for the Traffic and TEAP category of MoDOT's on-call LPA Program. SKW has the in-house experience and expertise to serve you in this capacity. We are proud to have provided traffic engineering services through the LPA program in the past, and we look forward to working with LPA's and MoDOT again. SKW can provide all of these specific services, as well as many other service types, as you will see in our brochure.

Benefits to LPA's and MoDOT in this category:

- **Experience with LPA's:** Having served over 100 public entities through the LPA program, SKW has gained an excellent understanding of the policies and procedures that must be followed and is well qualified to provide a broad range of multi-disciplined engineering and surveying services. This includes offering diverse, comprehensive professional services, experienced team members, an approach to finding cost effective solutions, and quick attention to your consultation needs and project assignments. Our **LPA Certified** project administration staff and project managers will provide exceptional service to you and facilitate the process with MoDOT.
- **Traffic Capabilities:** Our staff includes engineers who have been involved in "street level" traffic operations work of timing and maintaining traffic signal systems. Our experience also includes design and maintenance of traffic signing and pavement markings, including establishment of no-passing zones on highways and reflectivity/safety inspection of traffic signs. Our engineers have also worked under MoDOT's High Accident Location program to study locations and develop cost beneficial solutions. We are currently prequalified to provide traffic engineering services throughout the State under the TEAP program. Our staff includes multiple engineers who have earned national certification as Professional Traffic Operations Engineers and have been personally involved with hundreds of traffic signal designs and traffic studies. Our team has also evaluated the operational aspects of a number of roundabouts and has completed designs using national design standards.
- **Service:** SKW will listen to your requests and seek your input when determining what is important to you. Clients place as much value on the experience they have during the project as their interactions with the consultant. We will place an emphasis on meeting your expectations on this, and other service areas to provide an exceptional project experience.

Project Experience

SKW has excellent working relationships with LPA's and MoDOT staff. Our previous experiences will allow us to facilitate communication throughout the design process. Our traffic engineering staff have experience in the broad spectrum of traffic related issues and design including interconnectivity of signals and progression optimization.

MoDOT Traffic Engineering Assistance Program (TEAP) - Missouri

Missouri's local public agencies are able to utilize the Traffic Engineering Assistance Program (TEAP) to help fund the study of traffic engineering problems. For the last 14 years, SKW is proud to served as a MoDOT TEAP consultant. In this role, SKW helps communities identify the scope of work and submit funding requests on their behalf, in addition to conducting the traffic study once funds are allocated.

Duran Creek Avenue TEAP - Benton County, MO

SKW provided the examination of the existing Duran Creek Avenue between Highways H and BB in Benton County, MO. SKW examined various improvements that could be made to reduce the likelihood of crashes on the roadway. The corridor consists of a two-lane gravel road in rural Benton County. The primary problems in the corridor included a steep roadway that included at a horizontal curve in the road at a bridge crossing of Duran Creek. The county reported that the steep grade, coupled with the poor sight distance was a safety concern to the motoring public. SKW developed four alternates of varying costs, all of which increased the overall operational safety of the road. The preferred alternate included recommendations for modifying the existing signing to meet current MUTCD standards and to remove existing trees and shrubs near the creek to allow for improved sight distance. More costly alternatives of realigning the horizontal alignment and cutting down the existing hill were also examined, but were not recommended due to the significant costs associated with those improvements.

South Summit Drive Signage (Safe Routes to School) - Holts, Summit, MO

The City was awarded funding to install solar powered radar warning devices when entering the school zone, and Light Emitting Diode (LED) flashing signage at the crosswalk of South Elementary School. This project was along South Summit Drive, a major north-south thoroughfare for the City. The addition of the signage was a welcome addition to the City as a means of alerting motorists of the school zone ahead

Traffic Study at the Intersection of Hwy 160 and Hwy 71 – Lamar, MO

Traffic Impact Study which identified future improvements at and near the interchange that would be required if adjacent land is developed. Operational analyses and micro simulation was included in determining potential roadway improvements. Solutions included roadway widening, signalization and interchange improvements, including a provision for roundabouts.

Seabiscuit Park Amended Development Plan – Kansas City, MO

Traffic study in the area of Cookingham Drive and Ambassador Drive (near KCI airport) for a mixed-use commercial/office development. SKW collected data regarding existing traffic conditions along the adjacent street network and provided an estimate of future traffic volumes after various stages of build-out are complete. Inclusive with the study was operational analyses for signalized intersections, unsignalized intersections and a single lane roundabout.

Personnel

SKW has grown to a firm of over 250 employees and is known as a regional leader in each phase of civil and transportation consulting, including surveying, practical design, analysis, permitting, inspections, construction observation services and LPA administration.

Ron Petering, P.E., PTOE, President/Traffic Engineer.

Ron will serve as the primary contact for traffic engineering and TEAP services. Ron's primary responsibilities lie in the overall management of SKW's business operations with some project oversight. His technical expertise is centered in the area of transportation and traffic engineering. In addition to numerous traffic studies, he has overseen design of roadways/highways, traffic signal systems, and street lighting systems.

Jerry Johnson, P.E., LEED AP, Principal-in-Charge, LPA Certified.

Jerry will assist in preparing the project scope of services, fees and project schedule; review the contract agreement and monitor quality assurance. He will provide administrative assistance through frequent plan review and constructability assessment.

David Smalling, P.E., PTOE, Traffic Engineer/Project Manager, LPA Certified.

David is responsible for project management, plan production and client interaction on city, county and state roadway projects. In addition to developing traffic control plans, He routinely leads public involvement meetings, utility coordination meetings, and serves as a construction administrator.



Jay Burress, P.E., Lead Roadway Design Engineer, LPA Certified.

Jay has over 20 years of experience with all aspects of roadway design and has completed several roadway design projects for MoDOT in his career. His thorough understanding of the importance of maintaining maximum safety and accessibility, the necessity for detailed construction sequencing plans and the ultimate goal of designing for constructability, offers additional value to traffic improvements which may require associated roadway design.

Familiarity/Capability

In addition to providing services through the LPA Program for more than 14 years, SKW has also helped our clients with other local, regional and national funding sources such as BRO, STP, CDBG, ARRA and FHWA projects. We have provided services to almost all types of public and private entities, ranging in size from communities of under 1,000 to large urban cities and nationwide organizations. We have multiple staff which are intimately familiar with state and federal regulations as they apply to transportation. These individuals routinely use their regulatory knowledge to study and design projects to meet requirements of all applicable state and federal rules and laws.



Accessibility

SKW has extensive experience working with Missouri counties and municipalities. Specifically, our offices in Columbia, Macon, Lenexa and North Kansas City will afford us the opportunity to easily meet with staff and attend meetings as necessary. Our key personnel identified in this letter have access to the appropriate staff from within SKW. SKW can assure the LPA program our project team is adequately staffed and prepared to commit the time, labor and resources required to successfully provide traffic engineering and TEAP services.

Work Force Diversity

SKW is committed to fostering, cultivating and preserving a culture of diversity and inclusion. Our employees are the most valuable asset we have. The collective sum of the individual differences, life experiences, knowledge, inventiveness, innovation, self-expression, unique capabilities and talent that our employees invest in their work represents a significant part of not only our culture, but our reputation and company’s achievement as well.

SKW’s diversity initiatives are applicable—but not limited—to our practices and policies on recruitment and selection; compensation and benefits; professional development and training; promotions; transfers; social and recreational programs; layoffs; terminations; and the ongoing development of a work environment built on the premise of gender and diversity equity. In addition, we have established relationships with many DBE firms to assist us on project delivery.

SKW is excited about the opportunity to be a part of this project and we look forward to continue working with the MoDOT LPA Program. If you have any questions, or would like to request additional information, please do not hesitate to contact us toll-free at 800-280-8901.

Sincerely,
Shafer, Kline & Warren, Inc.


Gerald C. Johnson, P.E., LEED AP
Principal



Shafer, Kline & Warren, Inc.



SKW designs communities by offering clients a full range of professional consulting services at local, regional, state and national levels. Our complementary disciplines are consistently delivered with high quality service and attention to your needs.

Since 1950, SKW has helped our clients succeed by successfully executing projects, managing costs and controlling schedules. We are committed to being a valuable resource in providing dependable service with innovative and affordable solutions.

We are:



engineers
 transportation
 LEED
 integrity
 agricultural
 surveyors
 civil
 pipeline
 wastewater
 mechanical
 electrical
 GIS
 structural
 development
 site
 infrastructure
 planning
 landscape
 architecture
 stormwater
 energy
 water
 survey
 design-build
 construction
 observation

Forming Partnerships. Delivering Results. Means we consider our clients to be valued partners. When you treat your clients like partners, the results are noticeably different and understandably remarkable. We make every effort to listen to your needs and recognize what is individually important to you. We are problem solvers with a reputation for providing personal service and delivering quality projects on time and within budget. The service we offer clients, together with our years of experience, enables us to deliver lasting results. The truest measure of our commitment is visible through the impact our work has on the communities we help develop.

Missouri
 Kansas
 Oklahoma
 Texas

skw-inc.com



Capacity & Capability

Over the past 60 years, SKW has developed the capability of performing the range of services required to complete multi-discipline projects. Our services can include all project phases from the planning and development tasks of project inception, continuing through project design, and concluding with construction staking, observation and administration. We utilize the appropriate combination of staff resources to create a project team for the size and scope of the project.

What makes SKW different is our ability to provide comprehensive services, yet maintain focus on providing the personal, hands-on service our clients have come to expect. Each member of our staff, whether principal, project manager, design technician or support, is committed to providing exemplary customer service through the delivery of quality services, personal communication, innovative and cost-effective design.

The following service areas represent SKW's capacity to complete professional consulting for multiple projects:



Civil Engineering

- Agricultural
- Pipeline
- Roads & Traffic
- Site Planning & Design
- Stormwater
- Water
- Wastewater

Electrical/Mechanical Engineering

- Systems Integration
- Programming
- Panel Design & Construction
- HVAC Systems
- Lighting

Structural Engineering

- Bridges
- Buildings
- Other Structures

Field Services

- Land Survey
- As-builts
- Construction Staking
- Construction Observation

Value-Added Services

- On-Call
- Community Planning
- Geographic Information Systems
- Landscape Architecture
- LEED/Sustainable Design
- Design-Build



Office Locations

11250 Corporate Ave. **Lenexa**, KS 66219, 913-888-7800 (*Headquarters*)
3200 Penn Terrace, Suite 100, **Columbia**, MO 65202, 573-442-4537
1700 Swift Avenue, Suite 100, **North Kansas City**, MO 64116, 816-756-0444
107 Butler Street, **Macon**, MO 63552, 660-385-6441
1323 East 71st Street, Suite 120, **Tulsa**, OK 74136, 918-499-6000
8300 FM 1960, Suite 450, **Houston**, TX 77070, 281-292-0910

Reference Letter



August 2, 2013

To Whom It May Concern:

This letter is to serve as a recommendation for Shafer, Kline and Warren Engineering (SKW), and is based upon years of experience utilizing their services and comparing their work with other engineering firms I have worked with.

Since 1988, I have worked for two cities and both have contracted with SKW for engineering services. I consider SKW to be a top notch engineering firm that provides services in every discipline a municipality needs. They have a large survey division that we call upon for small and large-scale projects, and they always complete the work on schedule. They have provided us plans and specifications for capital projects such as new streets, substantial building repairs, water line extensions, and sanitary and stormwater improvements, just to name a few. They also have conducted various studies and presented them to the City Council. All of their work is performed on schedule and at very competitive costs, which is a reason why they continue to be selected as our consulting engineers.

It is important to me to have an excellent working relationship with an engineering firm that is based on trust, confidence, and responsiveness. I have been lucky to have had such a relationship with SKW for over two decades, and it is a pleasure to continue working with them.

Sincerely,



Pat Hawver
Director of Public Works
North Kansas City, MO



Ron Petering, P.E., PTOE

Traffic Engineer, Principal/President



Registrations

Professional Engineer

Professional Traffic Operations
Engineer

NCEES Engineering Record

Ronald Petering serves as President of SKW, leading the firm's Board of Directors and all business activity. Since appointed to his position in 1999, he has been responsible for general oversight of the firm, providing strategic leadership and guidance. When appropriate he also enjoys the opportunity to serve clients as Principal-in-Charge of major road and highway projects.

Ron's technical expertise is centered in the area of transportation and traffic engineering. Since joining the firm in 1989, he has overseen design of roadways/highways, traffic signal systems, and street lighting systems. He has also completed numerous traffic studies to evaluate the impacts of land development on the transportation infrastructure. In 2008, Ron was inducted into the Academy of Civil Engineers at Missouri University of Science & Technology for his service as outstanding civil engineer and community leader.

Recent Projects

- Vivion Road East Bridge/Route 69 over Line Creek - Riverside, MO
- City Hall Plaza Streetscape Renovation - Columbia, MO
- MoDOT Traffic Engineering Assistance Program - Missouri
- South Summit Drive Signage (Safe Routes to School) - Holts, Summit, MO
- North Jackson Ave. (NE Vivion Road to Gladstone) - Kansas City, MO
- Duran Creek Avenue TEAP - Benton County, MO
- 191st Street (Waverly Road to Four Corners Road) - Edgerton, KS
- Monticello Road (Johnson Dr. to 66th St.) - Shawnee, KS

Jerry Johnson, P.E., LEED AP

Principal-in-Charge



Registrations

Professional Engineer

LEED Accredited Professional

CSI Certified

MoDOT Local Agencies Basic
Training

Gerald (Jerry) Johnson has been with SKW since 1972 and presently serves as Principal, Department Manager of Infrastructure Services. Jerry has performed principal-in-charge, project management and design engineering services for both public and private clients. As a LEED accredited professional, he applies sustainable design principles to the engineering aspects of project development.

Jerry's design and project management experience is predominately within the civil and structural engineering fields. Typical civil projects include commercial/residential site development, roadways/highways, parking facilities, storm sewers and utility design. Typical structural projects include bridges, industrial buildings, utility bridges and heavy machinery foundations.

Recent Projects

- New Entrance Drive, Parking Lot and Turn Lane-K-32 - Kansas City, KS
- North Jackson Ave. (NE Vivion Road to Gladstone City Limits) - Kansas City, MO
- 108th Street (Shoal Creek Pkwy to I-435) - Kansas City, MO
- 191st Street (Waverly Road to Four Corners Road) - Edgerton, KS
- Belvidere Parkway (Congress to Hwy. 9) - Kansas City, MO

