



November 15, 2013

Mary Ann Jacobs
Missouri Department of Transportation

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

Re: MoDOT LPA On-Call Services - Roadway Design

Dear Ms. Jacobs:

Shafer, Kline & Warren, Inc. (SKW) is excited to present our qualifications for the Roadway design category of MoDOT's on-call LPA Program. SKW seeks to provide functional and economical engineering solutions through our roadway projects. SKW has the in-house experience and expertise to serve you in varying capacities. We are proud to have provided transportation engineering services through the LPA program in the past, and we look forward to working with the 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:

- **Roadway Design Capabilities:** We understand, recognize the benefits, and utilize Practical Design concepts in all of our work. SKW has the ability to undertake any size of project, from small, such as single intersection improvement, to large, such as fully directional interchanges. We can provide multiple design groups familiar with MoDOT design requirements. Our teams have designed hundreds of traffic signals and multiple modern roundabouts. Our engineers are also well versed in the application of contemporary access management techniques. In addition, our surveying staff capabilities make us exceptionally well qualified to address any right-of-way issues. We work on both a Microstation platform with GEOPak design tools, the same platforms used by MoDOT; and AutoCad 3D which is the platform many LPA's use.
- **Experience with LPA:** 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.
- **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 transportation engineering staff have experience in the broad spectrum of roadway design related issues to facilitate communication throughout the design process.

North Jackson Ave. (NE Vivion Road to Gladstone City Limits) - Kansas City, MO

North Jackson Avenue is a 2600 foot minor arterial road in Kansas City between Vivion Road and the Gladstone city limit. SKW provided survey, engineering plans and specifications for multiple improvements including adding curb & cutter and sidewalks, reconstructing roadway to improve the sight distance, constructing enclosed storm water sewer system. Addressing the large amount of stormwater coming east down the hill at 54th Street was a significant challenge. This job was designed in close collaboration with the City Councilman, who displayed a keen

interest in the project. The KCMO Parks department was consulted pertaining to a new hike & bike trail, which provides connectivity between Penguin Park to the south and the proposed Shoal Creek Greenway and crossing under Jackson Avenue. To address loading city buses, which were blocking traffic, the ATA was consulted and a new concrete bus stop was provided outside the traveled way.

On-Call Engineering Services - North Kansas City, MO

SKW was selected by the City of North Kansas City, MO, to provide professional on-call engineering and related services to assist the City with their infrastructure needs. Services include surveying, permitting, planning, development review, design, bid and construction phase services; and coordinating projects with state and local agencies, the NKC Levee District, the Corps of Engineers, MoDOT, and the two railroads in the City. Our contract was extended in 2013.

Barry Road Improvements & Water Main Relocations - Kansas City, MO

As part of the multi-year/phase Barry Road Improvements, SKW provided surveying, civil, transportation and traffic engineering, as well as construction services for approximately three miles of roadway improvements in Kansas City, MO. This urban area saw sudden growth in retail, educational and residential developments. Plans to improve Barry Road accommodated the increase in traffic at a cost of \$26M. Phases included: N. Prairie View/I-29 to N. Stoddard (1A), N. Congress to N. Stoddard/Winter (1B1), N. Conant to N. Congress (1B2), and N. Potomac to N. Conant (Sec 2).

Wightman & Fisk Streets Intersection and Street Improvements - Moberly, MO

Under an on-call contract, SKW prepared topographic survey, drawings, street design and construction plans to improve the intersection of Wightman Street, Fisk Street and Fifth Street, including the widening of Wightman Street between Fifth Street and Williams Streets. The intersection of Wightman/Fifth Street and Fisk/Fifth Street are offset by approximately 90 feet. Fisk and Wightman are east-west streets and Fifth is a north-south street. Moberly school buses travel through the existing intersection but have problems staying in the drive lanes in the offset intersections. The City of Moberly purchased and demolished an existing house to improve the intersection by realigning Wightman to Fisk Street. The improvements will widen the existing intersection of Fisk and Fifth, including a new and wider intersection for Wightman. The long term street plan is to improve the entire street length of Fisk and Wightman Streets.

Personnel

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

Jay Burress, P.E., Lead Roadway Design Engineer, LPA Certified. Jay will serve as Primary Contact for roadway design services. 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.

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.

Aaron McVicker, P.E., Roadway Designer, LPA Certified. Aaron's responsibilities include: client communications, contract negotiations, project coordination and schedules, roadway design, and design review. Aaron spent six years with the Missouri Department of Transportation (MoDOT) and earned the title of Senior Highway Designer.



Heather Carpenter, E.I., Project Designer/Utility Coordinator, LPA Certified. Heather is primarily involved in roadway and highway design including new, reconstruction, widening and rehabilitation projects. She authors project contract documents and specifications. Heater is also in charge of utility coordination for SKW’s horizontal projects. She is in consistent communication and had established relationships with the utility representatives throughout Missouri.

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 for the successful delivery of roadway design projects.



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

F. Jay Burrell, P.E.
Project Manager



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
surveyors
transportation
LEED
integrity
agricultural
civil
wastewater
mechanical
electrical
GIS
structural
development
site
planning
infrastructure
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



Jay Burress, P.E.

Associate, Project Manager



Registrations

Professional Engineer

OSHA 10-Hour Construction Certification

MoDOT Local Agencies Basic Training

F. Jay Burress presently serves as Senior Project Manager and Lead Transportation Designer in the Infrastructure Services Department. In 2005, SKW recognized Jay's strong leadership and management abilities by appointing him to the position of Associate. With over 20 years of experience in roadway, highway, and stormwater design, he is primarily responsible for directing professional staff and design management.

His experience on commercial and urban roadways is derived from the range of clients and projects with whom he has been involved. Jay understands the significance of assisting clients getting projects built where time and funding are minimized, while also being sensitive to landowner's needs. Specifically within the urban realm, he serves as the lead design engineer for the multi-phase reconstruction of Barry Road in the rapidly expanding commercial shopping area in northern Kansas City, MO. He was also directly responsible for the expansion of Route D/NW Cookingham between I-29 and I-435 near the Kansas City International Airport.

Recent Projects

- N. Congress (NW 73rd to Hwy. 9) - Kansas City, MO
- Belvidere Parkway (Congress to Hwy. 9) - Kansas City, MO
- Monticello Road (Johnson Dr to 66th Street) - Shawnee, KS
- 108th Street (Shoal Creek Pkwy to I-435) - Kansas City, MO

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) - 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

