



November 15, 2013

Mary Ann Jacobs
Missouri Department of Transportation

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

Re: MoDOT LPA On-Call Services - Construction Inspection

Dear Ms. Jacobs:

Shafer, Kline & Warren, Inc. (SKW) is excited to present our qualifications for the Construction Inspection 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 construction inspection services for MoDOT LPA projects 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, construction observers and project managers will provide exceptional service to you and facilitate the process with MoDOT.
- **Capabilities:** You will directly benefit from the personal attention of Daryl Taylor who is responsible for overseeing SKW's construction observation services. Daryl will be responsible for management and oversight of construction observation services for all projects. He is experienced in administering shop drawing submittals, change orders and pay estimates. Daryl will assign the appropriate staff to be sure they are knowledgeable on the specific project requirements. He will also be responsible for managing the field and office workload and will ensure that our services are provided in a timely manner.
- **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 provide an open line of communication between you and the contractor in the construction of each project.

Construction Inspection Services

Construction Phase Services demonstrate SKW's ability to provide clients with a representative who will ensure that their project is constructed with the attention to detail in which it was designed. We offer on-site management services for the construction of nearly everything from bridges and parklands to treatment plants and utility relocations. This unique service often saves both time and money, while providing an open line of communication between the client and contractor. SKW offers a team of construction observers whose expertise can rarely be matched when it comes to years of experience and industry knowledge. This depth of experience and knowledge often leads to increased field efficiency and maintaining the project schedule.

Project Experience

SKW has excellent working relationships with LPA's and MoDOT staff. Our construction observation staff have experience in the broad spectrum of transportation related issues to facilitate communication throughout construction.

Sturgeon Road Pedestrian Bridge and Sidewalk Improvements - Moberly, MO

SKW provided engineering services that included design, bidding and construction-phase service for the Sturgeon Road/Sidewalk Improvements. The funds were made available by the Federal Highway Administration through the Transportation Enhancement Program and coordinated through the Missouri Department of Transportation Project STP-9900(248). The City had a matching contribution to the Project. Construction included sidewalks, bike path, crosswalk markers, dome warning panels and a pedestrian bridge with concrete abutments over a four-lane city street called Rollins Street. The Project will connect to the City's Depot Park next to City Hall and continue south along the east side of Sturgeon Street to the south side of Wightman Street and stop at South Williams Street for an approximate project length of 1,800 feet.

South Marietta Bridge Inspection - Excelsior Springs, MO

SKW was retained by the City to conduct a visual inspection of the South Marietta Street Bridge and to assess the structural condition of the substructure and superstructure. A brief report was prepared and submitted to the City summarizing the bridge inspection and condition. SKW presented four options to rehabilitate or replace the bridge and keep it in service. Once the preferred option was selected, SKW provided construction observation services during the construction of the rehabilitation.

Buechter Bridge #22200181 - BRO-BO66(15) - Miller County, MO

The original Buechter Bridge No. 2220018 was a wooden swing bridge built in 1920. It was 128' long and 12' wide and spanned Tavern Creek on Buechter Road. It was open to traffic but in poor condition and needed to be replaced. Miller County secured funds through the Off-System Bridge Replacement & Rehab Program and selected SKW to provide engineering services. SKW conducted surveys and hydraulic studies, arranged for subsurface investigations, and prepared alternative designs, cost estimates and preliminary plans with recommendations to the County for the best design based on these studies. SKW worked with Terracon, Inc. for soil testing and Environmental Research Center of Missouri, Inc., to prepare the necessary Historic American Engineering Record (HAER) documentation to allow for demolition of the historical bridge.

After submittal, review and approval by MoDOT, SKW prepared detailed construction and right-of-way plans to solicit bids from contractors. SKW served as the County's representative for administering the construction and provided construction inspection services to protect the County against defects in workmanship and materials. Project produced a three-span, steel-girder bridge 206' long, with concrete deck and roadway a 20' wide roadway.

Personnel

SKW has grown to a firm of over 250 employees and is known as a regional leader in construction observation and administration. This allows us to offer LPA's and MoDOT the capability to work on multiple projects simultaneously.

Daryl K. Taylor, P.E. Construction Observation Project Manager, LPA Certified.

Daryl oversees the Construction Observation services for SKW. Throughout his 33 year career at SKW, Daryl has worked as a survey crew member, survey technician, engineering technician, project engineer, project manager and Director of Quality Control. Through these experiences he has gained knowledge in the design and construction materials & testing of sanitary sewers, storm sewers, streets, detention basins, site grading, erosion and sediment control and best management practices.

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.

Leonard Lowry, Senior Engineering Technician, LPA Certified.

Leonard's responsibilities include preparation of plans and specifications; writing of easements, utility agreements, and permits; participation in bid opening and preconstruction conferences; performance of construction stakeout, observation, and material testing; record keeping of work diaries, shop drawings, certifications, pay requests, payroll compliance, and change orders; and preparation of final closeout documents for audit.



Daniel Cunningham, Engineering Technician/Construction Observer, LPA Certified.

Daniel specializes in new construction and reconstruction of streets and roadways, both asphalt and concrete pavements, and the inspection of the construction of various types of concrete bridges and box culverts. He provides critical construction observation roles on various projects to ensure projects are constructed in accordance with the design. Daniel also assists with survey, design, drafting, and preliminary engineering reports

David L. McGee, Construction Observer.

David has 36 years of experience in construction staking, observation, and administration services for a wide range of projects, from wastewater treatment and sewerage systems to roadways and buildings. In addition, David is also experienced and knowledgeable in land surveying.

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, design and observe 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 for the successful delivery of construction inspection services.



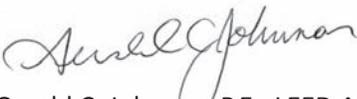
Work Force Diversity

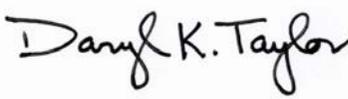
SKW is committed to fostering, cultivating and preserving a culture of diversity and inclusion. Our employees are the most valuable asset we have. The collective sum of the individual differences, life experiences, knowledge, inventiveness, innovation, self-expression, unique capabilities and talent 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


Daryl K. Taylor, 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
 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



Daryl Taylor, P.E.

Construction Observation



Professional Registrations

Professional Engineer

KDOT Certified Inspector

BI, API, CPI, STR

OSHA 10-Hour Construction Certification

MoDOT Local Agencies Basic Training

Daryl Taylor serves as Senior Project Manager in SKW's Infrastructure Services Department. Through this experience he has gained knowledge in the design and construction of sanitary sewers, storm sewers, streets, detention basins, site grading, erosion and sediment control and best management practices (BMP's). In addition, he is knowledgeable in various methods of hydrology and hydraulics including Rational Method, TR55, SCS unit hydrograph, HEC-HMS, Pond Pack, HEC-RAS and the storage indication Curve Method for Detention Basin routing.

Daryl's responsibilities include the supervision, scheduling and overall management of SKW's Quality Control/Construction Services group including management of our construction observation staff. His responsibilities also include checking plans prior to submittals for quality assurance and to minimize potential changes in the field during construction. Typical project types range from the construction and maintenance of major streets and bridges, including sidewalks, drives and curbs, to the expansion and development of storm sewers, sanitary sewers and water mains, to the construction of water and waste water treatment plants.

Recent Projects

- Courthouse Sidewalk Improvements - Benton County, MO
- On-Call Professional Engineering Services - Tracy, MO
- South Summit Drive Sidewalks (MoDO) - Holts Summit, MO
- Belvidere Parkway (Congress to Hwy. 9) - Kansas City, MO
- General On-Call Services - Moberly, 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

- MoDOT Route W Bridge Redecks - Kansas City, MO
- MoDOT On-Call Fracture Critical Bridge Inspections - MO
- Barry Road Widening & Water Main Relocations - Kansas City, MO
- Bird Haven Road Bridge BRO-B068 (20) - Moniteau County, MO
- Sturgeon Road Pedestrian Bridge and Sidewalk - Moberly, MO
- On-Call Services 2012 - Cooper County, MO

