



Oct. 27, 2023  
Missouri Department  
of Transportation  
PO Box 270  
Jefferson City, MO. 65102



## LETTER OF INTEREST

### On-Call Construction Inspection & Materials Testing

**Bacon Farmer Workman Engineering & Testing, Inc. (BFW)** is pleased to submit our statement of interest and qualifications for providing construction materials testing and inspection services for a three-year master agreement for on-call services for LPA. The BFW Team proposed for this project will be a compilation of teammates with a wealth of experience in working various bridge and roadway projects with cities and county agencies, urban and rural settings for Missouri Department of Transportation, and various industrial and commercial projects throughout Kentucky. With our seasoned and experienced staff, our past project history, and our available capacity, we are able and willing to take on these projects and will deliver the final product(s) on time and within the budget constraints as set forth by the LPA's.

**BFW** personnel have a comprehensive range of experience in providing contract administration, project inspection and documentation, material inspection, and material testing for roadway, bridge, and sidewalk projects for LPA's. Staff reviews contract documents prior to beginning inspection services to become familiar with the project and look for any potential issues. BFW will build and maintain a strong collaborative relationship with LPA project personnel and keep an open line of communication to assure that requirements of MoDOT's Engineering Policy Guide (EPG) Section 136 Local Public Agency Policy are met.

Our inspection staff will be on site daily, or as required, to perform inspection/testing of contractor's work to assure that the project is built correctly and in accordance with contract plans and specifications. Inspectors discuss daily with contractors their planned activities for the day and any required QC and QA inspection and testing. Contractor's quality control is reviewed throughout the project to assure the inspection, testing, and documentation are being completed as required and pre-activity meetings are scheduled as needed. Traffic control is reviewed daily, and traffic flow monitored closely to be proactive in addressing any issues.

All project documentation will be maintained throughout the life of the project. This includes, but is not limited to; completing daily work reports, documenting inspection records, assuring contractor has submitted required material certifications/documentation, change orders, processing estimates, etc. Required documentation, such as estimates, contract adjustments, change orders, materials testing, and correspondence with contractors will be saved in a format acceptable to LPA's process and in accordance with MoDOT's EPG Section 136. Inspectors will work with contractors to ensure material inspection/testing is reported properly and done at appropriate intervals. BFW inspectors are familiar with the final plans process and the required documentation necessary to ensure that LPA's are able to receive federal funding for their projects. BFW's testing lab is accredited by AASHTO/CCRL R-18 and the Army Corps of Engineers.

BFW has a retired MoDOT Resident Engineer on staff and can be available in a support role for inspectors or the LPA as needed. This can include providing guidance with all aspects of construction inspection/testing,

review of estimates, provide guidance on change order preparation, and preparation of final plans. Our goal for this guidance is that BFW will provide inspection and testing services that does not put a burden on LPA's staff while still keeping LPA's involved in the project.

## Past Performance

**Route 61 Signals and geometric improvements for the City of Sikeston, Missouri:** BFW provided construction inspection, material testing, and contract administration for oversight of the Governor's Cost Share funded signalization and geometric expansion of the Route 61 intersection providing an improved entrance to the Carlisle Construction Materials development immediately South of US60/Future I-57 in Sikeston, Missouri. This project required careful consideration of MoDOT Local Project Administration guidelines, MoDOT SE District Traffic permitting requirements, multi-jurisdictional utility relocation, as well as reimbursement requirements specific to the Governor's Cost Share Program guidelines. Construction inspection services included inspecting projects for compliance with contract documents, testing materials, checking contractor's quality control process, monitoring traffic control, and maintaining contract documentation.

**County Road 657 bridge replacement for Cape County Special Road District, Missouri:** BFW provided construction inspection, material testing, inspection of pile driving operations, contract administration, and project surveying for oversight of the county's bridge replacement.

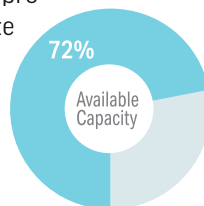
**Downtown Streetscape Project, City of Murray, Kentucky:** BFW provided professional engineering and surveying services for the Murray Main Street project for the City of Murray, Kentucky. Specifics in this project included a topographic survey of Court Square and Main Street from 4th Street to 3rd Street off the square and complete removal and replacement of sidewalks, curbs, and pavement. Improvements included: On-street parking, brick paver pedestrian crosswalks, handicap ramps meeting ADA requirements, curbing, sidewalks, drainage improvements, cape islands, pedestrian amenities such as benches, brick planters, brick walls and decorative street lighting. BFW provided contract development/administration and construction inspection for the City of Murray.





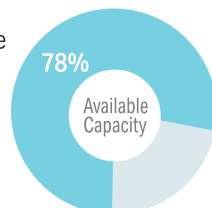
### Brian Frazier, Inspector

During Brian's time with BFW, he served as an inspector on LPA projects. Brian was responsible for inspecting projects for compliance with contract documents, testing materials, checking contractor's quality control process, monitoring traffic control, and maintaining contract documentation. Brian has also been an inspector for MoDOT projects while at BFW, inspecting roadway grading, asphalt pavement, concrete pavement, repair of pavements, material testing, monitoring traffic control, and project documentation for compliance with contracts. Brian retired from MoDOT with over 31 years of experience in the Southeast District, including construction inspection, material testing, and surveying. Brian is certified through MoDOT's Technician program in Soil Density, Concrete Field, and Concrete Strength, and Superpave. He is also certified in ACI - Concrete, MoDOT's Advanced Work Zone and Flagging, Troxler Nuclear Gauge Operation, completed MoDOT's Stormwater Training Course and is OSHA-10 trained.



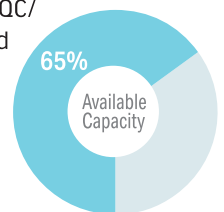
### Mark Pfeffer, Inspector

During Mark's time with BFW, he served as an inspector on LPA projects. Mark was responsible for inspecting projects for compliance with contract documents, testing materials, checking contractor's quality control process, monitoring traffic control, and maintaining contract documentation. Mark has also been an inspector for MoDOT projects while at BFW, inspecting roadway grading, asphalt pavement, concrete pavement, repair of pavements, material testing, monitoring traffic control, and project documentation for compliance with contracts. Mark retired from MoDOT with over 31 years of experience in the Southeast District, including surveying, project design, and utility adjustment inspections. Mark is certified through MoDOT's Technician program in Soil Density, Concrete Field, and Concrete Strength. He is also certified in ACI - Concrete, MoDOT's Advanced Work Zone and Flagging, completed MoDOT's Stormwater Training Course and is OSHA-10 trained.



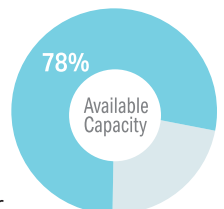
### Keaton Wooley, Inspector/Materials Technician

Keaton's responsibilities include conducting construction materials testing on soil, aggregate and Portland Cement Concrete materials for which he is qualified under the direction of the supervising materials testing technician and the laboratory manager. Keaton also conducts field tests on fresh concrete and prepares cylinders for laboratory curing and testing. He is also responsible for field density testing of soils and aggregate using Troxler Nuclear density gauges. Keaton is experienced in performing visual inspections on steel construction, wood framing, and light gauge metal framing. Keaton is certified through MoDOT's Technician program in Aggregate Technician, Superpave QC/QA, Tension Strength Ration (TSR), Concrete Field and Strength, Field Density, and HMA Aggregate Test. He has completed the Troxler Nuclear Gauge Operator certification, ACI Field Testing Technician - Grade 1, OSHA-10 Training, and MSHA Mine Safety & Health Administration certification.



### Brian Holt, PE, Resident Engineer

Brian has over 30 years of experience in the construction engineering field. Brian came to work for Bacon, Farmer, Workman Engineering & Testing after a 29-year career with the Missouri Department of Transportation and served as a Resident Engineer for 21 years in the Southeast District. Brian has extensive experience with contract administration that includes overseeing all aspects of construction activities, coordination of inspection staff on multiple projects, working with FHWA, coordination of work zones (MoDOT Advanced Work Zone certification), erosion control inspection (MoDOT's Land Disturbance trained), addressing concerns from stakeholders, resolving issues during construction, and dispute resolution with contractors. He also has extensive experience with coordinating contract administration and construction inspection activities on various LPA projects throughout MoDOT's Southeast District.







### Interstate 155, Superpave Asphalt Overlay

This project involves the asphalt overlay of 20 lane miles of Interstate 155 in Pemiscot County. Project activities include pavement repair, cold milling, guardrail upgrades, and superpave asphalt. Responsible for coordinating aspects for inspection and QA testing of construction activities, contract changes, asphalt plant inspection, material testing, measurement/documentation of pay items, monitoring contractor's quality control plan, and estimate generation. Managing traffic control for work zones. Keeping local partners updated on construction activities.

### Smallhouse Road Multi-Use Path

BFW Engineers contracted with the City of Bowling Green to perform final engineering and right of way acquisition to construct a multi-use path from Ridgecrest Way to Scottsville Road along Smallhouse Road. The goal of the project was to design a path along the defined corridor that would meet all ADA requirements, provide a safe route, connect all potential amenities, and minimize right-of-way requirements. BFW provided final design for this segment of path that completed the connectivity from the existing path along Smallhouse Road that is part of Bowling Green's larger sidewalk and greenway system.



### Commitment to Workforce Diversity

Bacon Farmer Workman is committed to continually creating a diverse workforce in all our 11 office locations. We have an excellent record of minority/female hiring with 25% of our current workforce being comprised of same. We understand the importance of a diverse workforce and what it brings to the table in terms of new ideas and creativity. Our affirmative action plan sets forth our commitment to continually strive to recruit, interview and ultimately employ minority/female engineers and design staff. Diversity is a guiding principle for BFW, in our approach to employment, the outreach we do when generating solutions for our clients and the persons we choose to associate with. Our belief is more, and varied perspectives result in stronger teams, satisfied customers, and the best possible solutions.

The BFW team has a strong desire to create a successful working relationship with LPA's. Our team members are eager to begin work on these projects. Should you have any questions regarding our letter of interest, please feel free to contact me at [mworkman@bfwengineers.com](mailto:mworkman@bfwengineers.com). Thank you for reviewing our qualifications.

*Mark A. Workman*

Mark Workman  
Executive Vice President  
Bacon Farmer Workman Engineering & Testing, Inc.





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## COMPANY PROFILE

### MISSION STATEMENT:

To provide the best client experience by empowering our team of committed, passionate professionals to deliver creative, forward-thinking solutions to the engineering challenges faced by our clients.

### VISION STATEMENT:

To create a lasting contribution to our communities and cultivate a company culture which nurtures and develops its people to reach their highest potential.

## OUR CAPABILITIES



### Asset Management (Paver)

We offer assessment management services for roadways, airfields and parking areas on all pavement types.



### Civil Engineering | Site Development

Site development and planning services for both public and private development projects.



### Environmental

Our professionals combine their knowledge of the site conditions with federal and state regulations to deliver solutions that make good business sense.



### Geospatial Technologies

We employ a number of Geospatial Technologies whether that be through the use of LiDAR, Fixed Wing Drones, BIM or collaborative software to help us maintain this balance.



### Geotechnical | Geophysical

We offer some of the most complete and comprehensive Geotechnical Engineering services as well as a variety of near-surface Geophysical Surveying services.



### Grant Coordination

We offer full-service grant strategies for acquisition, application development, and administration services to clients who need a professional team.



### Historic Preservation

Our team serves as the technical arm for clients, providing project oversight for historic preservation guidance.



### Landscape Architecture & Urban Planning

Our work ranges from new building site design including parking layout, sidewalks, plaza spaces, and landscape planting design to multi-use trail design and tree inventories and assessments.



### Parks & Recreation

We provide Parks and Recreation Planning and design services for both outdoor and indoor public facilities.



### Port Authority Master Planning

BFW's Team provides project oversight for master planning, grant coordination and administration, design, and construction through completion.



### Renewable Energy

Our team identifies and analyzes site constraints and devises approaches to minimize impacts and increase value for solar development projects.



### Structural Engineering

BFW designs range from simple to complex (nonlinear dynamic) structural systems that provide cost-effective solutions to our clients' structural design needs.



### Surveying

We provide a full range of surveying services including: 3D Mobile Mapping and scanning, horizontal and vertical control surveys, ALTA surveys, boundary, and topographic surveys.



### Testing | Inspections

Our personnel are highly trained, certified, and have experience conducting construction materials testing, nondestructive testing and special seismic inspections.



### Transportation Engineering

Our broad background and expertise enables us to provide all required design services encompassing rural, urban, bridges, and limited access highway facilities.



### Stormwater | Wastewater Resources

We have extensive experience in water, wastewater, and sanitary sewer projects including planning, design, and construction administration services.



## TESTING / INSPECTIONS

**Bacon Farmer Workman Engineering & Testing, Inc. (BFW)** understands how crucial quality control over the materials and methods used can be to the success of a project. By partnering with you, the client, and the design team; our technicians and inspectors work to ensure that the project plans and specifications are followed and implemented.

BFW can accomplish this through the use of site visits, visual inspections, materials testing (i.e. concrete strength testing, soil density, etc.) and nondestructive test methods. Our knowledgeable personnel will be your key to ensuring that you are getting quality structural products installed as intended by your project design team. BFW offers a team of professionals to plan, design, and implement the project you envisioned becoming a reality. Our personnel are highly trained, certified, and have experience from decades of conducting construction materials testing, nondestructive testing and special seismic inspections for a wide variety of applications throughout Kentucky, Tennessee, Missouri, and Illinois.

A particular benefit to our clients is our knowledgeable special seismic inspections staff. Many states incorporate the International Building Code into their state-specific codes. This dictates that for many buildings special seismic inspections are required. In most states, a final report of special inspections must be completed prior to the Certificate of Occupancy being issued by building enforcement department.

### Service Details:

Our inspections staff and engineers will help to ensure that structural components, connections, and workmanship meet the required inspections to provide you with a strong, safe, and compliant building.

Along with testing and inspections, **Bacon Farmer Workman Engineering & Testing, Inc.** will work with you to implement a complete solution, from design and engineering to survey, site work and final construction. Our quality control and testing/inspections personnel will work to ensure the project you envisioned becomes reality.



### Special Inspection and Materials Testing Service Details:

- Subgrade Inspection and Consultation
- Verification of Controlled Fill Using Troxler Nuclear Density Gauge
- Concrete Testing (ACI)
- High Strength Bolt and Structural Steel Inspection
- Fabrication Shop Inspection
- Rebound Hammer Compressive Strength Testing
- Project Quality Control and Quality Assurance (QA / AC)
- Welder Certification, Procedure Qualification Report (PQR) and Welding Procedure Specification (WPS)
- Mechanical, Electrical, Plumbing, and Suspended Acoustical Ceiling Seismic Code Compliance Inspection
- Spray Applied Fire Resistant Material Evaluation & Inspection
- Core Drilling Including, but Not Limited To, Concrete, Asphalt, Stone, and Soils

### Nondestructive Testing Service Details (NDT):

- Ultrasonic Thickness Testing (UTT)
- Straight Beam / Shear Wave Ultrasonic Testing (UT)
- Bolt Verification Testing (Skidmore Wilhelm)
- Phased Array Ultrasonic Testing (PAUT)
- Magnetic Particle Testing (MT)
- Liquid Penetrant Testing (PT)
- Rebound Hammer Compressive Strength Testing
- Positive Material Identification (PMI)
- AWS Certified Welding Inspection (CWI)
- Floor Flatness and Levelness Testing
- Concrete Slab Thickness Testing
- Coating Thickness Evaluation
- Concrete Slab Vapor Emissions Testing
- Nondestructive Testing & Evaluation of Steel Bridges

### Technicians are Certified by or Proficient with One or More of the Following Entities:

- American Welding Society (AWS)
- American Society for Nondestructive Testing (ASNT)
- American Society of Mechanical Engineers (ASME)
- Research Council on Structural Connections (AISC)
- International Code Council (ICC)
- Various Building Codes, Such as IBC and KBC
- American Concrete Institute (ACI)
- Army Corps of Engineers – Validated Laboratory
- AASHTO/CCRL R 18 – Accredited Laboratory

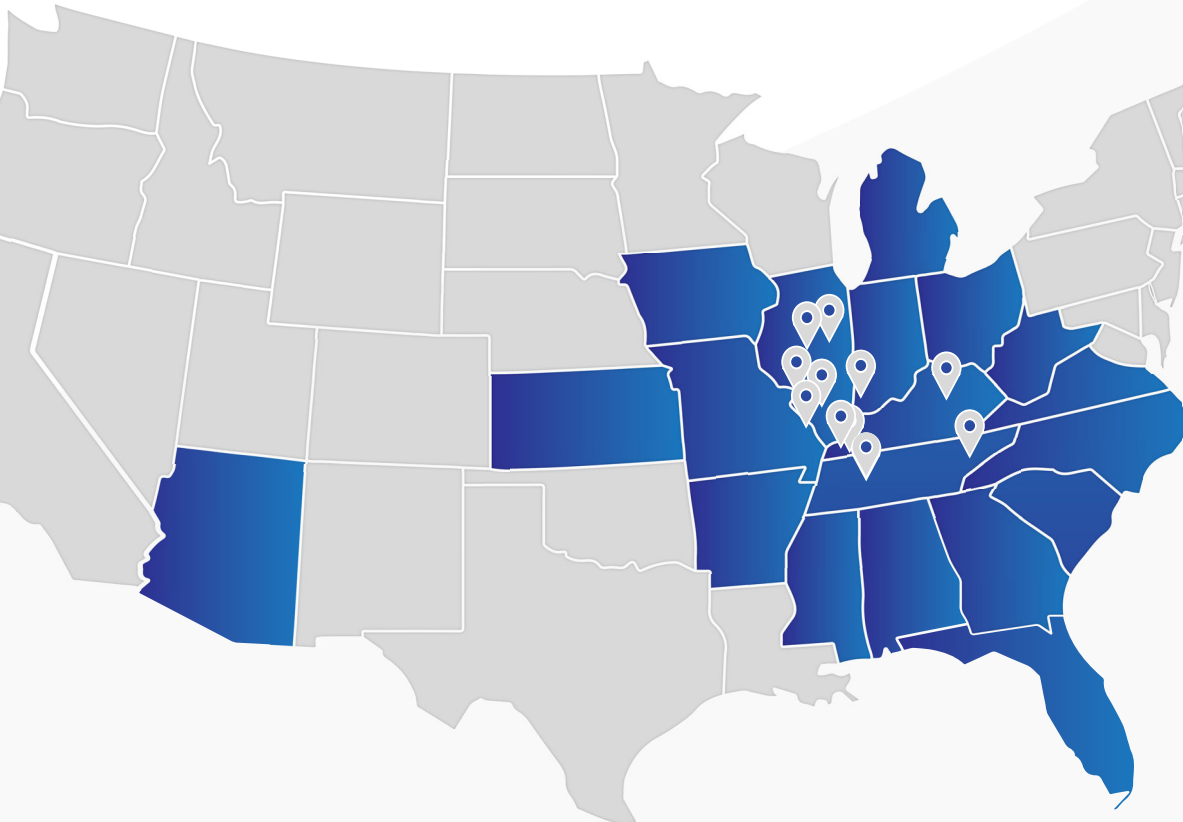















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ENGINEERING & TESTING, INC.



## WHERE WE'RE LICENSED



## LOCATIONS

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