



**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:

Bacon Farmer Workman Engineering & Testing, Inc.

Firm Contact Name:

Barry Horst, PE

Contact Email
Address:

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Firm's Mailing Address:

3437 William Street

Cape Girardeau, MO 63701

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**

2026-2029 LPA On-Call
Trails & Sidewalk Design Services

Missouri's Local Program for Community Development
LPAoncall@modot.mo.gov



Bacon Farmer Workman Engineering & Testing, Inc. (BFW) is pleased to submit our statement of interest and qualifications for providing trails & sidewalk design services for the Missouri's Local Program. The BFW Team proposed for this project will be a compilation of experienced engineers with a wealth of experience in working for our local partners. With our seasoned and experienced staff, our past project history, and our available capacity, we are able and willing to take on these projects for the local public agencies and will deliver the final product(s) on time and within the budget constraints set forth by the entity.

Prequalification

Bacon Farmer Workman (BFW) is included on MoDOT's Approved Consultant Prequalification List.

General Experience of Firm

BFW has completed numerous multiuse trail, ADA, intersection, sidewalk, and roadway projects, and has staff with years of experience with MoDOT intersection signals and lighting. BFW personnel have a comprehensive range of experience in providing conceptual, preliminary, right-of-way, and final design plans for trail and sidewalk projects for local public agencies and MoDOT. Our projects regularly undergo post-construction reviews. These reviews help us sharpen and improve our design skills and project development processes. BFW has decades of experience delivering transportation projects across Missouri and adjacent states. We are well-versed in navigating complex project requirements and coordinating with multiple stakeholders to keep projects moving toward completion. In addition, what further sets BFW apart from the competition is our proven MoDOT work history, our knowledge of the LPA process, our unmatched responsiveness and communication culture of getting things done, our company's priority and approach to listening and making our clients' jobs easier, and our ability to always deliver high-quality projects on time, whatever the schedule might be.

Surveying

Our survey team is highly experienced in collecting field data for transportation-related projects, including new construction and rehabilitation of sidewalks and trails. Services will include topographic surveys to define existing physical features and utility locations, as well as boundary surveys to confirm property lines and identify new rights-of-way. Our team is proficient in traditional GPS survey methods, as well as fixed, mobile, and aerial LiDAR data collection.

Environmental & Cultural Information

BFW team member Susannah Campbell will conduct thorough records research to identify environmental and cultural resources that may affect concept alternates. Susannah's staff will be a readily available resource to discuss mitigation and avoidance strategies that may affect cost estimates and alternates and may present constraints for construction. BFW staff will be in close coordination with the LPA team throughout the process to reduce the possibility of project delays. Our team is fully prepared and qualified to provide any support needed

once the properties are acquired and testing or screening activities can proceed. BFW includes former DOT professionals with decades of experience managing projects with ROW impacts. Our team will remain mindful of proximity concerns and visual aesthetics to help streamline the acquisition process for any parcels required for sidewalk or trail construction.

Signals & Lighting

BFW personnel have comprehensive experience providing traffic studies, highway capacity analyses, traffic signal warrants, traffic signal management, highway safety manual analyses, lighting, and traffic modeling. BFW has a history of successful traffic studies for several Departments of Transportation, counties, cities, school districts, and commercial establishments. Examples of our delivered services include:

- **Traffic Impact Studies:** BFW is proficient in using ITE Trip Gen to develop Traffic Impact Studies. BFW has provided these studies for local school districts, colleges, and universities including Murray State University, Southern Illinois University, West Kentucky Community & Technical College, Harrison County High School, McCracken County High School, and Lone Oak Middle School.
- **Safety Studies:** Improving travel safety for all road users is a focus area for BFW traffic personnel. BFW incorporates safety analysis in all our traffic studies. From high-level network safety screening to detailed intersection crash diagrams, BFW provides safety assessments that will meet any highway safety analysis needs that the LPA may have. BFW is very familiar with MoDOT's EPG and facilitating Road Safety Audits. Our safety analysis services also include near-miss assessments at intersections and identifying Wrong Way Driving prevalence on divided highways.

- **Traffic Operations:** Our team can provide operational analysis for all road and intersection types in the state of Missouri. BFW traffic personnel are fluent in traffic signal coordination optimization for travel times and standalone signal retimes that consider LOS, clearance intervals, and safety. Our team has analyzed and designed successful traffic signal and roundabout intersection improvement projects that meet the operational needs of Missouri travelers.
- **Traffic Signals/Lighting:** BFW is experienced with adaptive InSync Traffic Management Software. We have also provided estimates and management of contracts for fiber expansion and interconnection of multiple traffic signals. Our staff has in-depth experience recommending signal timing plans and providing follow-up retimes. Additionally, BFW traffic personnel are equipped to retrofit traffic signals with ADA-compliant pedestrian facilities and phasing.

Plans Preparation

Our team brings extensive experience preparing PS&E packages for municipalities, road districts, and DOTs. We will follow LPA standards and engage city staff at key milestones, including

the preliminary, right-of-way, and final plan phases, to ensure a successful outcome. BFW has worked with a wide range of public agencies and understands expectations regarding plan presentation and contract details. Our team includes former DOT Resident Engineers with ADA compliance expertise, which will be applied throughout the design to ensure accessibility. BFW and its team members have the flexibility to rapidly evaluate design alternates and communicate impacts so that the core team and stakeholders can make informed decisions and reach consensus on complex issues.

Public Involvement

Our team features engineering professionals with decades of experience communicating project impacts to the public. BFW's Project Manager, Eric Krapf, has successfully addressed public concerns within the context of the project for years. BFW can assist LPAs and their stakeholders in developing a public involvement plan tailored to project needs. Our team understands the issues that arise at public meetings and hearings. We can also assist in facilitating meetings with public officials and organizations on an "as needed" basis in support of LPA staff.

Past Performance

Our team has a proven track record of delivering complex transportation projects for LPAs and MoDOT, with expertise in traffic studies, signals and lighting, design, cost estimating, surveying, environmental determinations, and public involvement. We excel in developing design alternatives, evaluating ROW and utility impacts, and supporting the core team process. As seen below:



North West Street TAP 5800(106) Sikeston, MO

BFW provided surveying, design, environmental services, construction inspection, testing, and contract administration for this federally funded pedestrian walkway project. Improvements included ADA compliant sidewalks, retaining walls, paved entrances, drainage modifications, and railroad crossing pedestrian panels. The project also incorporated design adjustments to minimize impacts on adjacent properties and preserve existing trees.



Kingshighway Sidewalk Project Cape Girardeau, MO

BFW completed engineering design and environmental permitting for ADA compliant sidewalks from Kingsway to Marie Louise. Enhancements included new crosswalks at the Kingshighway/ Cape Rock Drive intersection, signal upgrades with audible and tactile pedestrian push buttons, drainage improvements, and construction of dedicated right turn lanes. The project also upgraded the continuous highway lighting system to meet current MoDOT standards.



Oldham County Multi Use Trail Oldham County, KY

BFW is providing surveying, preliminary design, environmental services, utility coordination, drainage design, erosion control, and construction administration for a 0.81 mile federally funded multi use trail. The design minimizes right of way impacts and stays within the programmed budget while coordinating closely with Yew Dell Gardens. The project supports the county's broader greenways system and enhances multimodal connectivity.



Jackson East Main Street Sidewalk Project TAP 3000(009) Jackson, MO

This TAP funded project includes 2,155 feet of sidewalk improvements along East Main Street, consisting of grading, ADA compliant sidewalks, curb ramps, paved approaches, retaining walls, pedestrian handrails, and lighting. The enhancement closes a critical pedestrian gap between Jackson's Historic Uptown district and the growing East Elementary area near Interstate 55. BFW has delivered complete engineering design, environmental clearances, right of way plans, bidding services, and full CEI including cost control, administration, materials sampling, and inspection.





Eric Krapf
Project Manager

Eric provides project management and QA/QC oversight with 32 years of transportation engineering experience. He has led a wide range of planning and design projects, ensuring technical accuracy, regulatory compliance, and clear communication among multidisciplinary teams. His extensive coordination with MoDOT and LPA partners gives him a strong understanding of project delivery requirements, funding considerations, and federal documentation standards.



Brian Holt
Utilities Coordination & Constructability Review

Brian brings over 33 years of construction engineering experience, including nearly three decades with MoDOT, where he served as a Resident Engineer for 21 years. His background includes contract administration, bridge and roadway construction oversight, staging and traffic control coordination, FHWA inspections, railroad permitting, and dispute resolution. His deep field expertise strengthens BFW's ability to evaluate constructability and utility impacts early in the planning and design process.



Marshall Davis
Survey

Marshall leads BFW's survey operations with over 10 years of experience supporting DOTs, municipalities, and private clients. He specializes in field data collection, boundary and topographic surveying, LiDAR applications, and UAS-based mapping. Since joining BFW, he has overseen survey deliverables that support planning, environmental documentation, right-of-way determination, and design development across multiple project types.



Susannah Campbell
Environmental Manager

Susannah has 20 years of experience in environmental analysis, permitting, and compliance. She manages NEPA documentation, wetland and stream assessments, cultural resource coordination, and federal and state permitting processes. Her experience spans transportation, government, and private-sector projects, and she is skilled at working with regulatory agencies to ensure timely and complete environmental approvals.



Stacy Earnhart, PE
Senior Transportation Engineer

Stacy brings over 20 years of diverse engineering experience, including MoDOT highway design, county engineering leadership, and extensive construction inspection work. She has overseen roadway maintenance and operations programs, served as resident engineer on major projects, and developed numerous ADA compliant sidewalk and trail designs. As a certified ADA Coordinator, she provides specialized expertise in accessibility planning and design for local communities.



David Johnson
Traffic Engineer

David is a transportation engineer with over 10 years of experience in traffic operations, safety analysis, and multimodal planning. His expertise includes microsimulation, traffic impact studies, TS&O interchange analysis, roundabout and signal design, and access management evaluations. He supports planning and design projects with data-driven recommendations that enhance mobility, safety, and system performance.

Familiarity, Capability & Accessibility

Our team brings extensive experience delivering transportation planning and design projects similar in scope and complexity, and BFW is widely recognized for producing high-quality plans, clear documentation, and dependable bidding packages. We provide the capacity and targeted technical resources necessary to advance each assignment efficiently and complete project deliverables to the highest standard. While our ability to meet the technical goals of an improvement is essential, we also prioritize the client's goals for how the project is delivered. We strive to create a smooth, collaborative, and positive experience for LPAs and all project stakeholders. With offices in Cape Girardeau, Jefferson City, and St. Louis, BFW remains well within reach for all project locations and is readily available for in-person or virtual meetings

with minimal lead time, ensuring consistent accessibility and responsive communication throughout the project.

The BFW team is committed to creating a strong and successful working relationship with LPA and MoDOT. 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. Thank you for reviewing our qualifications.

Bacon Farmer Workman Engineering & Testing, Inc.

Mark Workman, Chief Executive Officer



LPA On-Call

Engineering Services





Bacon Farmer Workman Engineering & Testing (BFW) is a multi-disciplinary engineering firm with office locations throughout MoDOT's geographic footprint. We provide a comprehensive suite of engineering services, addressing every project need with precision and expertise. At BFW, we are committed to delivering exceptional solutions. By leveraging the expertise of our highly skilled and knowledgeable team, we uphold a standard of excellence and a dedication to outstanding service on every project. Our client-centered approach is rooted in utilizing the latest technologies, building strong relationships with clients and communities, and ensuring full accessibility for both customers and end users.

Capabilities

- Asset & Infrastructure Management
Aviation
Civil Engineering & Site Development
Cultural Resources
Electrical Engineering
Environmental
Geospatial Technologies
Geophysical

- Geotechnical Engineering
Grant Coordination
Industrial
Landscape Architecture & Urban Planning
Maritime
Mechanical Engineering
Parks & Recreation
Renewable Energy
Strategic Energy

- Structural Engineering
Surveying
Technology
Testing & Inspections
Transportation Engineering
Stormwater & Wastewater Resources

Professionals

- Archaeologist
Aviation Engineers
Aviation Planner
Civil/Site Engineers
Ecologists
Electrical Engineers
Environmental Managers
Geologists
Geophysicists
Geotechnical Engineers

- Grants Administrator Specialist
Historic Preservation
Land Surveyors
Landscape Architect/Arborist
LEED Accredited
Legal Counsel/ Attorney at Law
Mechanical Engineers
OSHA Authorized Construction Trainer

- Park Specialist
Professional Wetland Scientist (PWS)
Project Management Professionals (PMP)
Professional Transportation Operations Engineer (PTOE)
Safety Professional (CSP)
Structural Engineers
Transportation Engineers
Water Distribution Operator

Support Professionals

- Accounting Staff
Administrative Staff
Construction Administrators

- Construction Inspectors
Geotechnical Drilling Staff
Mobile LiDAR Operators
Survey Field Staff

- Technical Writers
Technical Staff



Certificate of Commendation for Excellent Safety Record 2023 & 2024, National Award

MO Chapter Safety Award 2023 & 2024

W-KY Chapter Safety Award 2023



Locations

- Paducah, KY
BFW / 270-443-1995
Marcum / 270-444-9274
Lexington, KY
859-537-0112
Murray, KY
270-753-7307
Paragould, AR
573-625-1776
Belleville, IL
618-771-5774
Champaign, IL
217-530-4283
Marion, IL
618-997-9190

- Springfield, IL
217-679-6254
Evansville, IN
812-470-0273
Cape Girardeau, MO
573-222-5632
Jefferson City, MO
573-680-6160
St. Louis, MO
636-779-9420
Brentwood, TN
615-693-2744
Knoxville, TN
865-806-1539

Transportation Engineering

Bacon Farmer Workman Engineering & Testing, Inc. (BFW) has built a solid reputation as a “go-to” firm in the transportation engineering field. BFW emphasizes attention to details, project milestones, and budgets, as reflected by our current ratings from our transportation clients.

Our broad background and expertise enable us to provide all required design services encompassing rural, urban, and limited access highway facilities. Our Transportation Division utilizes the latest state-of-the-art advancements in design and equipment technology to accomplish project requirements and client satisfaction.

Our Transportation Capabilities

Roadway Engineering

- Interstate, rural, and urban roadway design
- Phase I, II, III engineering
- Sidewalks, ADA upgrades, and multi-use trail design
- Corridor studies & safety improvements
- Complete Streets / multimodal design
- Drainage & stormwater analysis

Bridge & Structural Engineering

- New bridge design & replacement
- Rehabilitation, widening, & preservation
- Culverts, walls, foundations, hydraulic structures
- Load ratings & NBIS inspections
- Design-build alternative delivery

Traffic & Safety

- Traffic operations & modeling
- Signal design & ITS
- MOT/maintenance of traffic plans
- Speed, crash, and safety studies
- Access management & intersection improvements

Service Details

As a full-service firm, BFW can handle every phase of highway projects from route / corridor studies including environmental coordination / approvals through the final design and on to the contract bid letting and award process. We can also provide contract administration, inspection, and testing for any size or complexity of project.

Environmental & Geotechnical

- NEPA documentation
- ESA, cultural resources, ecological reviews
- 401/404 permitting & floodplain compliance
- Geotechnical drilling & lab testing
- Pavement/embankment/foundation recommendations

Survey, Lidar & Mapping

- Boundary & topo surveying
- UAV/drone mapping
- Mobile & Terrestrial LIDAR
- SUE coordination
- ROW plan development

Construction Inspection & Support

- CEI & materials testing
- QA/QC oversight
- Utility coordination
- As-built documentation
- Contractor support & field reviews

Specialized Transportation Facilities

- Port & riverport access roads and circulation
- Bulk yard, conveyor, and loading infrastructure support
- Runway, taxiway, and apron design
- Airfield grading, drainage & lighting systems
- Airport access roads and parking improvements
- Pavement evaluation and airfield improvements
- Site development for industrial and logistics users





Cape Special Road District County Road Bridge over Juden Creek



Rte 61 Cape Girardeau Kingshighway

Jackson East Main Street Pedestrian Facilities

Jackson, MO

City of Jackson & MoDOT TAP

- Surveying
- Roadway Design incl. ADA compliance
- Environmental, NEPA
- Construction Admin. and Inspection

Sikeston North West Street Pedestrian Facilities

Sikeston, MO

City of Sikeston & MoDOT

- Surveying
- Roadway Design incl. ADA compliance
- Utility Coordination
- Environmental, NEPA
- Construction Admin. and Inspection

Route 61 Signals & Geometric Improvements

Sikeston, MO

City of Sikeston & MoDOT

- Cost Share**
- Roadway Design
 - Traffic Safety & Operations
 - Surveying
 - Utility Coordination
 - Construction Materials Testing & Inspection

ACEC
2026

Cape Special Road District County Road Bridge over Juden Creek

Cape Girardeau, MO

- Bridge Design
- Roadway Design
- Geotechnical
- Utility Coordination
- Environmental, Hydrology/Floodplain
- Construction Admin. and Inspection

US 412 Corridor Study

Kennett, MO / Arkansas State Line

Dunklin County Commission and MoDOT Cost Share

- Environmental, NEPA
- Environmental, Threatened & Endangered
- Traffic Safety & Operations
- Surveying
- Roadway Design (Planning/ Alternatives)

ACEC
2026

Rte 61 Kingshighway Cape Rock Drive Intersection Improvements

Cape Girardeau County, MO

City of Cape Girardeau & MoDOT Cost Share

- Roadway Design
- Traffic Safety & Operations
- ADA/Pedestrian Facilities
- Environmental, NEPA
- Utility Coordination

Dexter Safe Streets for All (SS4A) Intersection Study

Dexter, MO

City of Dexter & MoDOT

- Traffic Safety and Operations
- Surveying
- Roadway Design (Alternatives)
- Public Involvement

Route 51 Traffic Study

Perryville, MO

City of Perryville & MoDOT Cost Share

- Traffic Safety & Operations
- Roadway Design (Alternatives)
- Surveying / Data Collection
- Environmental – NEPA considerations

US 67 Upgrades / Future I-57 Corridor Projects

Butler County, MO

City of Poplar Bluff & MoDOT Cost Share

- Roadway Design
- Geotechnical
- Bridge Design

