



**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

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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
Multimodal Planning/Systems & Facilities

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



Bacon Farmer Workman Engineering & Testing, Inc. (BFW) is pleased to submit our Letter of Interest and Qualifications for your review and consideration. This package highlights our capabilities in Local Public Agency (LPA) Consulting Services, with a focus on

Multimodal Planning/Systems and Facilities Design under the three-year master agreement with the Missouri Department of Transportation (MoDOT). Our proposed team brings together a strong group of experienced engineers and skilled grant writers, each with extensive backgrounds supporting projects similar in size and complexity across the region. BFW has a long history of delivering these services to clients in Illinois, Missouri, Kentucky, and Tennessee, consistently meeting expectations and building trusted relationships. With our seasoned staff, proven performance, and available capacity, BFW is fully committed to supporting MoDOT. We are prepared to deliver high-quality work that meets project goals, adheres to schedules, and aligns with the Department's budget constraints.

Prequalification: BFW is included on MoDOT's Approved Consultant Prequalification List.

General Experience of Firm

BFW is a multidisciplinary engineering firm headquartered in Paducah, Kentucky, with a strong presence in Missouri through offices in St. Louis, Jefferson City, and Cape Girardeau. Since 1996, we have delivered expert guidance and technical support across a wide range of projects, including environmental assessments involving wetlands and cultural resources. Our team works closely with numerous port authorities, providing oversight in master planning, grant coordination, design, and construction. We specialize in developing comprehensive solutions that prioritize and optimize capital projects based on each port's unique needs and available funding opportunities. BFW's staff includes more than 195 highly skilled professional structural, civil, and transportation engineers, LEED-accredited specialists, and an experienced support team.

Past Performance

BFW's team has extensive experience with MoDOT's LPA policies and procedures, ensuring compliance and smooth project delivery. We prioritize responsiveness, clear communication, and proactive problem-solving to support client needs. With a strong history of delivering innovative, budget-conscious solutions, BFW has built a reliable reputation for high-quality performance. Recent projects include:

Massac-Metropolis Port District Master Plan: Massac County, IL

BFW, in partnership with Hanson Professional Services and Polaris Analytics, is developing a comprehensive Master Plan for the Massac-Metropolis Port District along the Ohio River, covering Metropolis, Brookport, and Joppa. The plan evaluates two potential port sites, analyzes river, rail, and truck connectivity,

and identifies infrastructure improvements needed to support long-term economic development. It also includes feasibility assessments, detailed cost estimates, and a full economic impact analysis to guide the district's strategic growth.

Paducah-McCracken County Riverport West: Paducah, KY

BFW supports the Paducah-McCracken County Riverport Authority in the redevelopment of a 38-acre brownfield site into a multimodal public riverport capable of handling marine, rail, and truck cargo. The team developing a strategic, grant-ready design aligned with USDOT funding standards. The completed design will strengthen multimodal connectivity, outlined scalable cargo infrastructure, and incorporated environmental stewardship elements that positioned the site competitively for major federal programs, including MARAD PIDP, CRISI, and INFRA. BFW is providing Survey, Environmental, Civil, Structural, Transportation, Rail, and Geotechnical services for complete port design.

PMCR – MARAD PIDP Bulk Yard Expansion Project: Paducah, KY

BFW prepared and submitted a successful \$3.32 million MARAD PIDP grant application for the Paducah-McCracken County Riverport Authority in support of the Bulk Yard Infrastructure Revitalization and Expansion Project. The work included development of the full funding narrative, project planning materials, and identification of equipment replacement and upgrade needs to enhance operational efficiency and expand cargo handling capacity. BFW is leading Civil, Geotechnical, and Environmental Engineering Services for foundation design and paving for a 30,000-square-foot laydown pad, new ground conveyors, new stacker conveyors, truck scale replacement, new storage dome roofs, new fertilizer scale canopy, upgraded utility systems, and site drainage improvements.



HFCRA – MARAD PIDP Conveyor Upgrade and Replacement Project Application: Hickman & Fulton Counties, KY

BFW developed a \$4.1 million MARAD PIDP grant application for the Hickman-Fulton County Riverport Authority and is providing design services to replace and expand the port's conveyor system. The application, written by BFW's Grants Coordinator and Historic Preservation Specialist, demonstrated the need for wider, modernized equipment to increase throughput and improve efficiency. Submitted in Spring 2023, it received award decisions later that year. BFW's scope includes design of a new 1,200-foot conveyor system, conveyor foundations, a new mooring cell, electrical infrastructure, and control mechanisms. The project also includes environmental services, engineering, construction administration, testing and inspection, and procurement support.

ERIDA – MARAD PIDP Inlet Project Application: Eddyville, KY

BFW completed the \$6.1 million MARAD PIDP application for the Eddyville Riverport and Industrial Authority. Led by BFW's Grants Coordinator and Historic Preservation Specialist, the work included developing the grant narrative, project schedule, and cost budget for an inlet expansion project designed to increase water frontage and support future operational growth. The application demonstrated strong economic benefits and the long-term value of expanding port infrastructure. BFW is providing Survey, Environmental, Civil, Structural, and Geotechnical services for the complete inlet dock design.

Qualifications of Personnel



Ken Bowen, PE

Ken is a seasoned civil and construction engineering professional with more than 20 years of experience in heavy civil construction, managing complex multi-discipline projects involving landfills, dams, locks, coal ash remediation, large-scale earthwork, piping systems, and concrete infrastructure. His expertise includes project budgeting, scheduling, procurement, subcontractor negotiation, engineering coordination, and team leadership, and he has successfully led projects for clients such as the US Army Corps of Engineers, power and utility companies, airports, and local governments. Before joining BFW, he served as a Project Executive at Thalle Construction Company, where he spent more than 10 years overseeing multi-disciplined USACE dam and lock projects and providing executive oversight and mentorship to project teams. Ken currently serves as BFW's Port Infrastructure Division Manager, overseeing all maritime projects, including the Eddyville Riverport Industrial Development Authority (ERIDA) PIDP Dolphin and Inlet Projects, the ERIDA Spec Building, ERIDA Master Plan Management, the Paducah McCracken County Riverport Authority (PMCRA) PIDP Bulk Yard Expansion, PMCRA Riverport West, PMCRA Dredging Permit, the Henderson County Riverport Authority Master Plan, the Massac Metropolis Port District Feasibility Study, the Hickman Fulton Riverport Authority (HFRA) PIDP Conveyor Project, and the HFRA Master Plan.



Maegan Mansfield, PE

Maegan brings more than 14 years of civil engineering and project management experience with specialized expertise in port and waterfront infrastructure. Her background includes seismic foundation design for ports, waterway crossings, and transportation projects along the Eastern coastline and across the United States. She has successfully managed capital projects for municipal and federal clients, ensuring regulatory compliance and delivering resilient, long-lasting maritime structures. Her key areas of expertise include the design and construction management of port and waterfront capital projects, seismic mitigation techniques for marine and coastal infrastructure, management of waterway projects including permitting and environmental compliance, procurement and specification development for port construction services, navigation of government funding programs and regulatory processes, pavement and structural rehabilitation for port access roads and terminals, and coordination with local, state, and federal agencies on complex maritime initiatives.





Melinda Winchester

Melinda serves as BFW's Grants Coordinator and Historic Preservation Specialist, bringing over 26 years of experience in historic preservation and community economic development. She has collaborated extensively with communities across Missouri and Kentucky, as well as with Certified Local Governments and state and federal agencies, preparing National Register nominations, architectural surveys, photography studies, and State and Federal Historic Tax Credit applications. She is certified in Kentucky, Illinois, Missouri, and Ohio under 36 CFR Part 61 to perform Section 106 Review Architectural Resource Assessments, including identifying historic properties, evaluating project effects, and preparing required documentation. Melinda also assists communities in developing Design Guidelines for residential and commercial districts, helping establish architectural character and historical context to support consistent decision-making for alterations, improvements, and new construction within historic areas.



Christina Neutz Murphy, PE

Christina joined BFW in 2023 after a 38-year career with the US Army Corps of Engineers, Louisville District. With a master's degree in civil engineering, she spent her career focused on levee system design, construction, rehabilitation, inspection, flood response, and Section 408 reviews. She served as Chief of Levee Safety and the Louisville District's levee safety subject matter expert. She was also the Project Delivery Team Lead and a contributing author for the 2020 update of Engineer Manual

1110, Conduits, Pipes, and Culverts Associated with Dams and Levee Systems. Her team included approximately 10 USACE engineers and 13 Pipe Association and industry contractors.



Kenny McDaniel, PE, LEED AP

Kenny is a licensed professional engineer with 31 years of experience in civil and site design project management. He manages project coordination, budgeting, scheduling, technical specifications, and engineering documentation. His expertise includes wetland and stream delineation, hydrology and hydraulic analysis for detention systems, storm sewers, and culverts, as well as FHWA HGL and EGL computations. He is experienced in land development grading, EPSC plans, ADA design standards, permitting, procurement, funding processes, and retaining wall analysis.



Theresa Davies, PE

Theresa is experienced in structural engineering and project management, joining BFW in 2022 after 15 years designing commercial projects, including schools, hospitals, municipal buildings, churches, and industrial facilities. Her skills include developing code-based design criteria, designing structural systems and foundations, conducting site visits to verify compliance, analyzing existing structures for stability, and modeling components for wastewater treatment facilities such as clarifiers, influent wells, and density baffles.

Familiarity/Capability

The BFW Team brings more than two decades of experience delivering federally compliant multimodal planning and engineering services across Missouri and surrounding states. Our work includes developing multimodal plans, completing corridor and feasibility studies, assessing safety and ADA accessibility, and preparing conceptual and preliminary engineering designs for shared-use paths, transit facilities, roadway corridors, bicycle networks, and freight access improvements. We also support federal funding efforts by preparing cost estimates, phasing strategies, benefit-cost analyses, and grant documentation for programs such as BUILD, RAISE, INFRA, CRISI, TAP, and PIDP. With more than 20 years of successful and strong teamwork with local governments, MPOs, transit agencies, and state DOTs, BFW has the knowledge and skills to effectively complete multimodal planning and facility design projects that comply with all federal guidelines.

Accessibility

BFW recognizes that in today's dynamic environment, responsiveness and accessibility are fundamental to effective project delivery. These principles are embedded within our organizational framework and consistently upheld by our professional staff. We maintain structured, transparent communication throughout every assignment, ensuring timely updates, proactive issue resolution, and seamless coordination. This commitment to accessibility and responsiveness is a defining characteristic of BFW's service approach.

The BFW team is committed to building a strong, successful working relationship with 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

