

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

