



**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:

EFK Moen, LLC

Firm Contact Name:

Bobby Wooten - Director of Business Development & Strategy

Contact Email
Address:

bwooten@efkmoen.com

Firm's Mailing Address:

13523 Barrett Parkway Drive, Suite 250, St. Louis, MO 63021

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**

Dear Ms. Buechter and members of the Selection Committee,

The intent of the LPA On-Call Agreements is to provide Local Agencies a group of engineering firms that are familiar with the scope of work needed to design LPA projects and with the MoDOT LPA process experience to be efficient with the plan production and delivery format required to work with this federal funding program.

Prequalification:

EFK♦Moen is current with all the MoDOT prequalification requirements, including Federal Aid Basic Training.

General Structural Design Experience:

EFK♦Moen, LLC (EFK♦Moen) has several project managers and engineers who have completed the LPA Federal Aid Training Course. EFK♦Moen has demonstrated that we have the capacity, availability, and responsiveness to serve local agencies in this way. We have the surveying, structural and roadway engineering experience to deliver quality projects within their schedule and budget. EFK♦Moen has provided roadway and structural design services on interstates, freeways, expressways, multi-lane urban, two lane rural and local road projects since 1998 and our professional engineers have earned the confidence of MoDOT and municipal design staffs across Missouri.

EFK♦Moen has provided structural design services on federally funded projects to local agencies and MoDOT as a prime consultant, as a valued sub-consultant with other design firms, and through the MoDOT MOU on-call process. With this experience we are conscious of the tight budgets and schedules often associated with these types of projects. Since we are familiar with the LPA processes, we can produce quality designs quickly and efficiently. EFK♦Moen understands the importance of the on-call agreements to local agencies and the flexibility that they give City officials.

Our recent Missouri LPA structural engineering clients include the City of O'Fallon, Sunset Hills, Herculaneum, Wentzville, Springfield, St. Charles County, St. Louis County and Jefferson County. EFK♦Moen's roadway, structures and survey staff members work closely with our LPA clients to ensure these projects proceed efficiently and accurately while adhering to the project schedules.

We are dedicated to providing the same experienced group of engineers and support staff on this on-call agreement that has made our firm successful on these work order-based assignments in the past.

General On-Call Project Approach Outline:

- A local agency will assess internally a specific need resulting in an LPA on-call design assignment.
- Once EFK♦Moen is selected, a kickoff meeting will be scheduled to outline the project scope, schedule, and budget.
- EFK♦Moen will conduct a field visit at the project site, field observations will be noted, project data will be collected, and photos will be taken.
- EFK♦Moen will quickly submit a detailed scope based on the information gathered; a proposal task list with hours and cost tabulated for each task; and a schedule that meets the local agency requirements.
- Upon notice-to-proceed, EFK♦Moen will design the project, continuously looking for design ideas and constructability methods that will create value and stay within the budget.
- Our staff is experienced with delivering plans according to MoDOT's LPA plan submittal process; and we are familiar with the MoDOT plan review staff to expedite final document reviews.
- EFK♦Moen's staff is committed to being available during construction to answer questions and assist as needed.
- After the project is completed, we appreciate feedback from MoDOT and the local agency on how we can work more efficiently with your staff.



LPA Project
Vance Road Bridge, St. Louis County



LPA Project
Charter Church Road Bridge, Jefferson County

**Providing Professional
Engineering & Surveying
Services Since 1998**

Past Performance:

EFK•Moen is a design firm that has been regularly selected as a prime consultant on a variety of municipal LPA roadway and bridge design projects. This experience gives our firm the necessary tools to deliver any LPA MOU assignment successfully, in a cost-effective manner, to enhance public acceptance and adhere to an expedited project schedule typically associated with these work orders. To successfully deliver these on-call assignments, local agencies require a team of highly experienced engineering professionals specializing in structural engineering and design.

EFK•Moen has this team in place to address any structural design tasks needed. Our firm is organized to efficiently perform project tasks typically associated with this type of work order assignment and will draw on the following features to successfully deliver any work order we receive:

- Demonstrated ability to successfully deliver challenging design documents on time and within budget
- Proven ability to coordinate with the client and project stakeholders in developing acceptable project solutions
- Expertise in implementing and streamlining all facets of document production
- Established track record in exceeding client’s expectations when delivering design projects

Another important addition to our past design success is our track record in contract scoping and negotiations. These tasks with EFK•Moen are typically handled within a very short time frame, which allows us an earlier start than most, resulting in many of our projects finishing ahead of schedule and under budget.

LPA Structural Engineering Experience

Client	Route	Over	# of Spans	Total Length	Const. Cost	Repeat Customer
St. Louis County	Greenwood Blvd	Big Bend Blvd.	1	76 ft	\$700,000	Yes
St. Louis County	Wyncrest Drive	Glaize Creek	1	83 ft	\$500,000	Yes
St. Louis County	Vance Road	Fishpot Creek	1	100 ft	\$900,000	Yes
St. Louis County	Conway Road	Maryville Creek	1	60 ft	\$800,000	Yes
Jefferson County	Whitehead Road	Cotter Creek	1	78 ft	\$600,000	Yes
Jefferson County	Charter Church Road	Plattin Creek	2	160 ft	\$600,000	Yes
St. Charles County	Femme Osage Creek Rd.	Femme Osage Creek	3 Cell	50 ft	\$300,000	Yes
Jefferson County	Vineland	Whitehead Creek	1	60 ft	\$480,000	Yes
City of Sunset Hills	West Watson Road (Box)	Tributary B	3 Cell	50 ft	\$1,600,000	Yes
City of Wildwood	Old Eatherton Rd. Pedestrian Brdg	Route 100	2	330 ft	\$1,200,000	Yes



LPA Project
Whitehead Bridge, Jefferson County



LPA Project
Mexico Rd. Pedestrian Bridge, O'Fallon, MO



LPA Project
Conway Road Bridge, St. Louis County

Qualifications of Key Personnel:

Our staff has designed many types of LPA structural projects involving bridge & culvert structural analysis, LFD & LRFD design, bridge superstructure design, prestressed concrete I & box girders, steel wide flange beam, steel plate girder, reinforced concrete slab, single & multiple span designs, bridge substructure design, integral, semi-integral, non-integral abutments, column & pile cap piers, drilled shaft, spread footing & pile foundations, seismic analysis & design, special sign truss designs, sign truss and lighting foundations, cast in place & MSE retaining walls, bridge, wall and sign truss inspections, bridge rehabilitation plans, etc. This familiarity/knowledge of structural design and the MoDOT LPA design processes will provide the local Agency and MoDOT staff with a secure feeling of partnership in developing and providing innovative designs.

EFK•Moen Key Staff	Project Role	Years of Exp.
Chris Linneman, PE, SE	Structural Manager	28
Chris Williams, PE, SE	Sr. Structural Engineer	33
Alex Benz, PE, SE	Sr. Structural Engineer	16
Chris Chastain, PE	Project Structural Engineer	13
Matt Marino, PE	Project Structural Engineer	6
Steve Furrow, PE	Bridge Inspector	13



Structural Manager, Chris Linneman, PE, SE, has over 28 years of experience in the structural engineering field. He has worked at EFK•Moen for over 19 years in the structural department. During this time, Chris has worked on numerous bridge replacement and structural design projects. This has included detailed seismic analyses, including multi-mode analyses, bridge inspections, bridge rehabilitations, box culverts, retaining walls, special sign structures, ITS structural supports and various other structural items. Chris has managed a wide variety of bridge and structural engineering projects for state, county and local municipalities.



Senior Structural Engineer, Chris Williams, PE, SE, has over 33 years of structural engineering service experience for numerous bridge design and inspection projects. He has been responsible for the analysis, rating, design and detailing of assorted bridges in both Missouri and Illinois to DOT standards. Inspection experience includes special and routine, inventory bridge inspections, routine inspections of sign structures, and underwater inspections of on and off-system bridges. Construction inspection experience includes QA/QC bridge site visits for plan compliance and milestone events as well as building construction.



Senior Structural Engineer, Alex Benz, PE, SE, has over 16 years of experience in the structural engineering field. He has worked on numerous bridge replacement and structural design projects from preliminary design, hydraulics, analysis and design, and final PS&E submittals. His work includes bridge rehabilitation, curved structures, box culverts, retaining walls, and various other structural items. Alex has worked on a variety of engineering projects for state, county, and local municipalities.



Project Structural Engineer, Chris Chastain, PE, has over 13 years of experience at EFK•Moen in the structural department. During this time, Chris has worked on numerous bridge replacement and structural design projects. This has included detailed seismic analyses, bridge inspections, bridge rehabilitations, box culverts, special sign structures, ITS structural supports and various other structural items. Chris has worked on a wide variety of engineering projects for state, county and local municipalities.



Project Structural Engineer, Matt Marino, PE has over 6 years of structural engineering service experience at EFK•Moen. Matt has worked on numerous bridge replacement and structural design projects. This has included detailed seismic analyses, bridge inspections, bridge rehabilitations, box culverts, special sign structures, ITS structural supports and various other structural items.



Bridge Inspector, Steve Furrow, PE, has over 13 years of experience, all with EFK•Moen, working on numerous bridge, retaining wall, culvert and sign structure inspections. Steve is a certified NBI Team Leader and has worked on a wide variety of engineering projects for state, county and local municipalities. Steve has completed the Fracture Critical Inspection Techniques for Steel Bridges training.



QC/QA Manager/Project Principal, PJ Kronlage, PE, has over 42 years of experience in the transportation engineering field and has been involved in nearly every aspect of roadway design, including roadway alignment and geometrics, drainage systems, lighting, signals and signing, retaining wall layouts, standard plans and specification development, as well as construction management.

Familiarity/Capability: EFK•Moen has been providing on-call engineering services in several MoDOT districts for years and has been selected in the past for the LPA on-call assignments as well. Our firm's familiarity and experience with these on-call assignments has involved roadway designs, bridge engineering, traffic engineering, ADA trails & sidewalks and construction administration & inspections. EFK•Moen has the experience to address a wide variety of project requests to assist local agencies with professional services across the state from conceptual studies to construction management. We encourage you to contact the listed clients as to EFK•Moen's capabilities, accessibility, responsiveness, and familiarity with MoDOT's LPA requirements.

Accessibility: We understand that the success of these project assignments depends on the flexibility of the selected design firm to be ready to react when called upon. EFK•Moen is responsive to our clients; paying particular attention to this is extremely important for the on-call work orders as their schedules seem to be more immediate in nature. EFK•Moen is committed to meeting with local agency staff members within 2 business days from initial contact to discuss a specific work order request.

Sincerely,
EFK•Moen, LLC

Bobby Wooten, Director of
Business Development
bwooten@efkmoen.com

The Benefits of Selecting the EFK•Moen Team for this Project

- Experienced with MoDOT & LPA on-call assignments
- History of Expedited Scoping and Contract Negotiations
- History of Innovative Design Plans

EFK♦Moen

Civil Engineering Design

EFK♦Moen, LLC is a Civil Engineering Design Consulting Firm founded in 1998

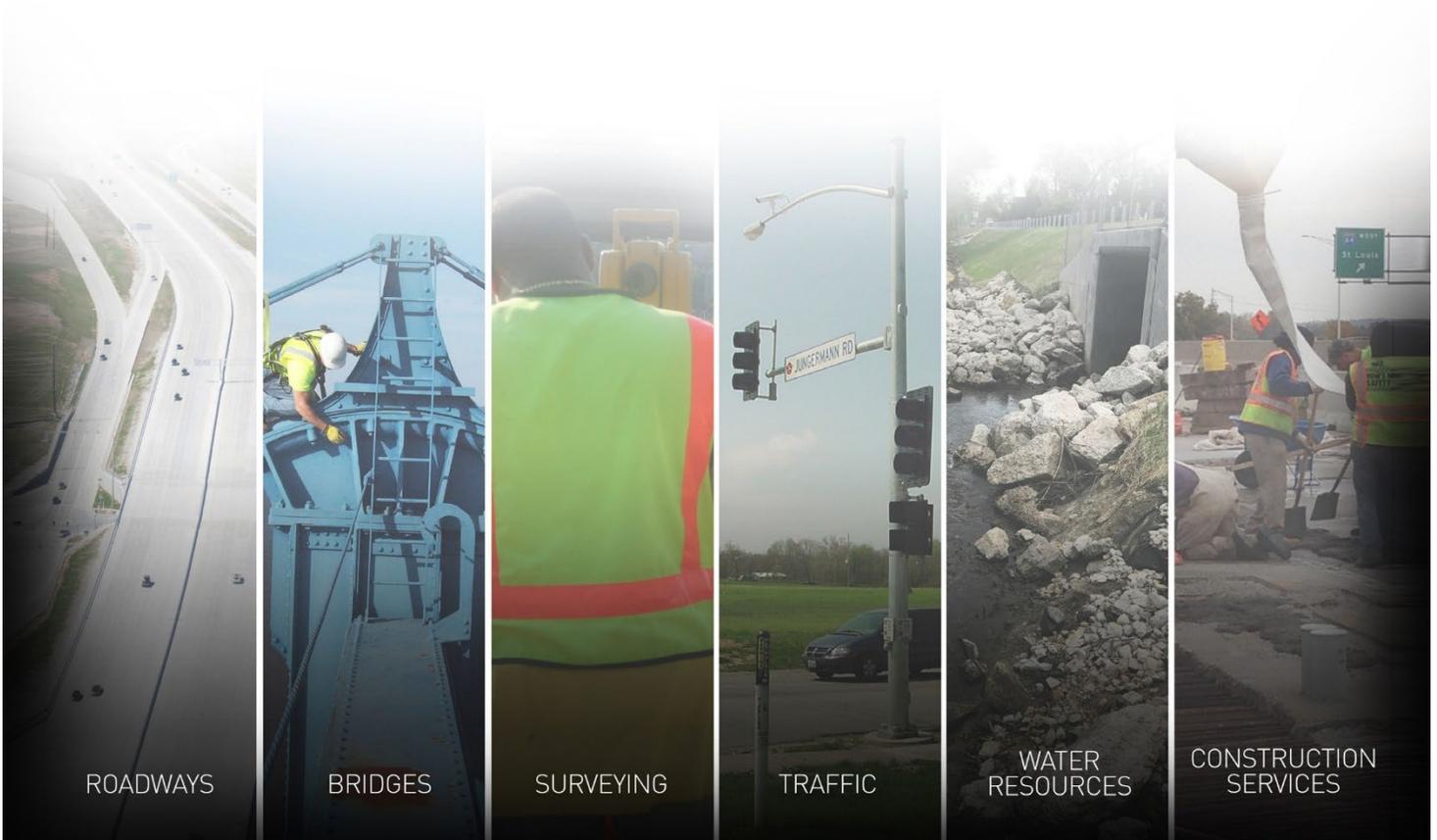
with an emphasis in transportation and bridge engineering and design.

The staff of EFK♦Moen has experience in developing new concepts for roadway and bridge designs from preliminary feasibility studies through final design and construction. Our offices are located in St. Louis, MO; St. Charles, MO; Fairview Heights, IL; Chicago, IL; and Atlanta, GA.

EFK♦Moen's engineers are well respected within the industry and have gained recognition for producing quality design documents. Utilizing the latest technology and diverse experience, we provide innovative and cost-effective designs.

EFK♦Moen's staff of professional engineers has been responsible for many Missouri interstate and marked routes throughout the region.

www.efkmoen.com



EXPERIENCE WITH FEDERAL, STATE & LOCAL GOVERNMENTS

Since EFK♦Moen was formed in 1998 our clientele has primarily been state and local governments. We have extensive experience with MoDOT, federally funded projects, the Local Public Agency (LPA) process, the City of St. Louis Board of Public Service and the St. Louis Metropolitan Sewer District. EFK♦Moen has a good understanding of the most current guidelines and procedures used by federal, state and local governmental agencies, and has several project managers who have earned the Federal Aid/LPA Certification through MoDOT.

SERVICES



Vance Road – St. Louis County

ROADWAY, TRAILS & SIDEWALKS

EFK•Moen's transportation engineering professionals have great depth of experience with all types of roadway/highway design projects.

Our experience includes:

- ◆ Interstates, Highways, Local Roads
- ◆ Roundabouts
- ◆ Interchanges
- ◆ Conceptual/Feasibility Studies
- ◆ Public Involvement
- ◆ ADA Compliant Design
- ◆ Interstate/Highway Signing
- ◆ Construction Staging/Maintenance of Traffic
- ◆ Value Engineering
- ◆ Multi-Use Trails
- ◆ Traffic Calming
- ◆ GIS Technology
- ◆ Grant application and exhibit preparation



Wyncrest Drive over Glaize Creek – St. Louis County

STRUCTURES

EFK•Moen's structural engineering group understands the complexities of bridge, retaining wall and box culverts designs; and is also experienced in maintenance of traffic, construction methods, structure maintenance and inspection, expedited schedules and budget constraints.

We offer services in the following areas:

- ◆ Bridge & Box Culvert Plans
- ◆ Bridge Inspections & Rehabilitations
- ◆ Bridge Hydraulic Studies
- ◆ Bridge Load Rating
- ◆ Seismic Design
- ◆ Sign Truss and Lighting Foundations
- ◆ Retaining Walls
- ◆ Peer Design Review
- ◆ Shop Drawing Review



Eads Bridge – St. Louis County

SURVEYING

Combining the latest technologies with a very experienced group of surveying personnel is what makes EFK•Moen an industry leader producing extremely accurate documentation for our clients.

- ◆ Boundary Surveys
- ◆ ALTA/ACSM Surveys
- ◆ Right of Way and Corridor Surveys
- ◆ Topographic Surveys
- ◆ Aerial Control Surveys for Photogrammetry
- ◆ Construction Staking
- ◆ As-Built Surveys
- ◆ Legal Descriptions/Exhibits/Plats
- ◆ Subdivision Plats
- ◆ Record Research and Compilation
- ◆ Static and Drone Lidar



I-270 and Dougherty Ferry Rd. – St. Louis County

TRAFFIC

EFK•Moen's traffic engineering group provides our clients with traffic demand studies and traffic signal design.

- ♦ Site Traffic Projections
- ♦ ITE Analysis
- ♦ Safety Analysis
- ♦ Intersection Capacity Analysis
- ♦ Traffic Signal Phasing
- ♦ Traffic Signal Design
- ♦ Traffic Studies Reports
- ♦ Maintenance of Construction Traffic
- ♦ SYNCHRO/SimTraffic Software Expertise
- ♦ ADA Compliant Traffic Signal Equipment
- ♦ VISSIM



Bohrer Park - St. Louis County

WATER RESOURCES

EFK•Moen regularly performs the design, modeling and analyses of watersheds, drainage areas, rivers and creeks for both existing conditions and proposed solutions. This includes creek crossings for bridge and culvert replacements, pavement drainage design for roadways and site developments and studies of existing drainage patterns to identify causes and solutions for flooding concerns.

- ♦ Detention Basin Design
- ♦ Water Quality BMP Design
- ♦ Creek Biostabilization
- ♦ FEMA Floodplain/Floodway Studies
- ♦ Stormwater Management
- ♦ 1D and 2D Hydraulic Modeling
- ♦ Stormwater Culvert and Ditch Design



Route A – St. Charles County

CONSTRUCTION SERVICES

EFK•Moen's staff is certified in many aspects of construction documentation, concrete and asphalt testing, soil field testing, stormwater prevention plan monitoring (SWPPP), and erosion control; and our staff has provided construction services on DOT, County, and Municipal projects, with experience in Federal Local Public Agency/Local Road processes and paperwork.

- ♦ Construction Services Documentation
- ♦ SWPPP/Erosion Control Monitoring
- ♦ Concrete-Soil Field Testing
- ♦ Local Road/Local Public Agency Process
- ♦ Construction Services Documentation
- ♦ SWPPP/Erosion Control Monitoring
- ♦ Concrete-Soil Field Testing

EFK•Moen promotes a diverse workforce within the company, and teams with firms that share this same philosophy. EFK•Moen likes to provide opportunities for all parties involved to bring new perspectives to project teams that are as diverse as the locations in which EFK•Moen serves.

KEY STAFF



Linda Moen, PE, PTOE
 President, Traffic
 41 years of experience
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Bobby Wooten
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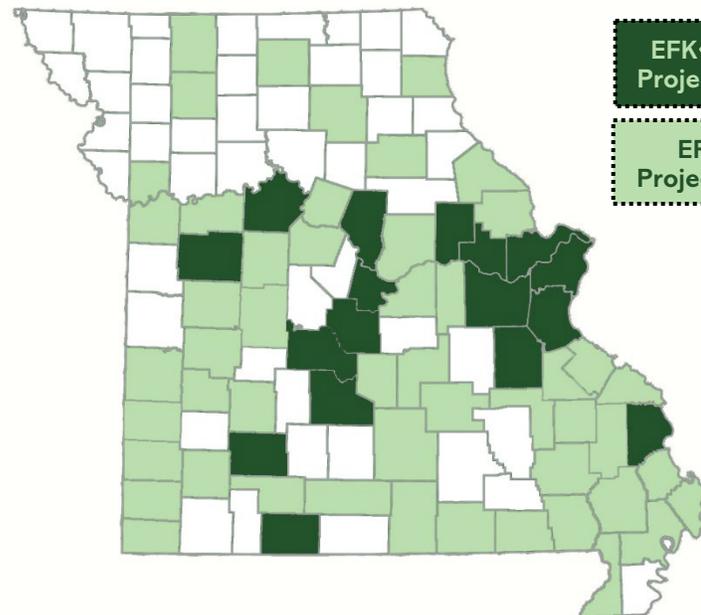
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Ted Medler, PE, SE
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EFK•Moen Professional Credentials	
Professional Engineers (PE)	29
Professional Surveyors	4
Eng & Surveying Techs	8
Field Crews	5
EIT's	10
Structural Engineers	4
PTOE	2
LEED Accredited	1
Administrative	5

EFK•Moen regularly works on multiple federally funded LPA projects, allowing our project managers and engineers to stay up to date on the latest rules and policies.



EFK•Moen LPA Project Locations

EFK•Moen Project Locations

LOCAL OFFICES

ST. LOUIS, MO

13523 Barrett Parkway Dr., Suite 250
 St. Louis, MO 63021
 314-394-3100

ST. CHARLES, MO

2536 South Old Highway 94, Suite 226
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