



**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
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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**

RE: MISSOURI'S LOCAL PROGRAM (LPA) ON-CALL PREQUALIFICATION - STRUCTURES



Dear Ms. Buechter and Members of the Selection Committee,

The Missouri Department of Transportation (MoDOT) continues to partner with Local Public Agencies (LPAs) and consultants to maximize mobility, safety, and efficiency for the people of Missouri through system preservation and strategic investments for safety and efficient capital improvements.

MoDOT, LPAs, and their industry partners have undergone enormous change over the past three years, from workforce changes, to travel pattern fluctuations with safety impacts, to delivery of large-scale improvements around the state. MoDOT has continued to deliver in partnership with LPAs and the transportation industry to maximize delivery of enhancements, maintenance, and improved operations for the people of Missouri. Despite adverse and changing conditions, MoDOT has a strong track record of completing projects on time while delivering record-level contractor awards and making progress towards decreasing the annual fatality rate on Missouri roads. LPAs have also delivered well through record funding levels and inflation pressures.

As MoDOT and LPAs look at future challenges and opportunities, the Structures On-Call Contract supports continuation of this mission. WSP is excited to serve LPAs through on-call professional services, as we share MoDOT's mission to provide a worldclass transportation experience and promote a prosperous Missouri.

General Experience of the Firm

With a local history dating back more than 75 years, WSP has continued to evolve and grow in Missouri. Recent growth and acquisitions have resulted in bringing our total number of Missouri employees to more than 700. Through our years of experience serving municipal, regional, and state agencies, WSP has become specialized in successfully delivering a wide range of project types. Regardless of project size, we utilize our best local talent to deliver high quality projects in an efficient manner.

WSP has been supporting MoDOT bridge projects on both sides of the State from our Kansas City, MO and St. Louis, MO offices. We have extensive experience designing bridge structures, from simple span spread box beam superstructures on closed ended cast-in-place (CECIP) piles to continuous welded plate girder superstructures on deep drilled shaft foundations. We pride ourselves in our collaborative bridge design and project delivery where we seamlessly perform as extension of MoDOT staff. Our assignments range in size and scope from simple studies to complex multidisciplinary

efforts. In every case, we are committed to responding to MoDOT's needs with cost-effective, sustainable solutions that promote safe and efficient travel.

We also have the benefit of a unique perspective by being a preferred owner's representative to MoDOT for design-build projects which gives us clear insight into design decisions and process.

Past Performance

WSP's commitment to service excellence and quality has established a strong reputation within the industry. Our consistent volume of repeat engagements and on-call contracts with regional, county, and local agencies across the state reflects the high caliber of our work and our dedication to supporting transportation infrastructure statewide. From on-call and standalone contracts with Jefferson County, St. Louis County, City of Kansas City, Bi-State Development, EWCOG, MARC, and Great Rivers Greenway, we have in-depth knowledge from many perspectives and across jurisdictions.

Our experience with MoDOT and these partners provides our team with an understanding of the constraints and requirements necessary for planning, designing and constructing infrastructure. We understand the required procedures, requirements, the Department's goals for oversight of these projects, and we know the local environment and challenges; we stand ready to support your mission.

The following sections detail the projects and people representing our diverse experience. Please see our team's relevant project experience on the following page.

WSP MISSOURI OFFICES: Kansas City Jefferson City Ballwin Creve Coeur St. Louis	700 MISSOURI TEAM MEMBERS	
	250 Civil	7 Transportation Planners
	40 Structural	28 Accounting, Administrative, & Marketing
	15 Traffic	20 Cultural Resources
	10 Mechanical	20 Architects
	140 Electrical	25 Program Management & Project Controls
	35 Geotechnical	
	60 Environmental	
	25 Natural Resources	
	35 Technicians	



Client, Project, Location	Brief Scope	Project Relevance	Key Staff
MoDOT, Improve I-70 Project 1, Kingdom City, MO	WSP supported the Prime Engineer on this Design-Build project that is reconstructing I-70 from Kingdom City to Columbia. The project, located in both rural and urban areas, includes widening of I-70 to three lanes and reconstruction of multiple interchanges. The project involves the replacement of the westbound and eastbound US 54 bridges over I-70 with new two-span structures. The bridges will feature prestressed concrete NU girders, integral end bents, and an intermediate pile cap bent for enhanced structural stability. The new bridges will ensure a reliable connection for motorists traveling along this key transportation corridor.	Bridge scoping; development of bridge type, size, location, bridge design, and plans.	Osman Mohammed, Fenton Geoghegan, Peter Young, Rich Wischmann
MoDOT, NE District Bridge Replacement, Near Bethel, MO	The project involves the replacement of Route J over Tiger Fork Creek bridge with a new single-span structure utilizing prestressed concrete NU girders. The design incorporates integral end bents to enhance structural continuity and minimize maintenance needs. Based on section 748 of the MoDOT Engineering Policy Guide, the proposed bridge designs were made to match the proposed hydraulic conditions for various flood events to the existing one of the bridge. Scour at the bridge was calculated using a 1D HEC-RAS model to determine riprap measures at the abutment. The new bridge will provide a safer and more durable crossing for motorists while meeting modern engineering standards.	Bridge scoping; development of bridge type, size, location, bridge design, plans, and cost estimating.	Osman Mohammed, Fenton Geoghegan, Peter Young, Rich Wischmann, Tim Bauman
MoDOT, Route 61/67 Pavement Widening, Jefferson County, MO	WSP is designing pavement rehabilitation, ADA upgrades, guardrail upgrades, signal replacements, public involvement, and box culvert replacements for MoDOT along 11 miles of US 61/67 in Jefferson County. The proposed culverts present significant design and construction challenges due to their severe skew angles, which complicate both alignment and load distribution. To address these complexities, the culvert will be cast-in-place and constructed in multiple stages, allowing for careful coordination with existing site constraints and minimizing disruption to traffic and adjacent infrastructure. A hydraulic analysis was conducted to determine the appropriate culvert opening size. The evaluation considered design discharge, headwater conditions, and flow characteristics to ensure adequate capacity.	Bridge scoping; development of bridge type, size, location, bridge design, plans, and cost estimating.	Osman Mohammed, Fenton Geoghegan, Peter Young, Rich Wischmann
KCMO, Grand Boulevard Bicycle/Pedestrian Bridge, Kansas City, MO	New 1286' bicycle/pedestrian bridge paralleling the Grand Boulevard roadway/streetcar bridge from the River Market to River Front in downtown Kansas City, south of the Missouri River. Significant utility coordination was required for this elevated structure spanning two Union Pacific Railroad mainline tracks, a UPRR siding, and a BNSF Railroad mainline track. Construction is on an expedited schedule for completion by June 2026. This recent experience is fresh in the design teams minds and presents another opportunity to coordinate seamlessly between WSP Structures and BNSF Railroad needs. WSP did not experience delay through BNSF plan review for this project in a very congested corridor.	Bridge scoping; development of bridge design, plans, inspection, and cost estimating.	Peter Young, Jeevan Kethi Reddy

Qualifications of Personnel Assigned

The WSP team has been tailored to best meet the needs of projects statewide and represents our staff in Kansas City, Jefferson City and St. Louis. We are committed to bringing local, efficient, and fiscally responsible solutions publicly funded projects. With staff at all levels of experience located in Missouri, we can tailor our project team to support projects of any size. The following key staff represent just some of the breadth and depth that we offer to support the Structures On-Call Contract.



Osman Mohammed, PE

Experience: 11 Years | **Location:** St. Louis, MO

Osman is a project manager and assistant vice president – structural engineer, leading the St. Louis structures team. Osman brings a wealth of experience, having previously led design teams on a diverse range of projects for MoDOT. His responsibilities also include evaluating bridge types and lengths for feasibility studies. Osman’s impressive portfolio includes working on MoDOT’s Design-Build ventures such as the Improve I-70 Project 1, Champ-Clark River Bridge, and Buck O’Neil River Bridge, as well as numerous Design-Bid-Build projects across the state.



Peter Young, PE

Experience: 14 Years | **Location:** Kansas City, MO

Peter is a project manager and assistant vice president – structural engineer, licensed in Midwest states, leading the Kansas City structures team. He has significant experience in steel and concrete bridge design, bridge load rating, bridge inspection, and construction inspection. He uses his broad experience in all phases of his projects for a smooth transition from design through construction.



Fenton Geoghegan, PE

Experience: 8 Years | **Location:** St. Louis, MO

Fenton is a senior-level engineer. He has experience in bridge engineering in MoDOT, KDOT, and NYSDOT. He has considerable experience in the design, rating, and rehabilitation of steel bridges and structures as well as concrete bridge components.



Jeevan Kethi Reddy, PE

Experience: 8 Years | **Location:** Kansas City, MO

Jeevan is a licensed professional engineer working in the Kansas City office. He has quality experience in bridge design from simple designs to complex structures. He has extensive bridge construction inspection experience in multiple Midwest states and has a long history of providing quality deliverables.



Rich Wischmann, PE

Experience: 26 Years | **Location:** St. Louis, MO

Rich is a lead engineer with WSP. His areas of expertise include the design, construction, and operation of complex stormwater management systems and wastewater collection systems. Rich brings practical experience in design and construction of sewer systems for both public and private sector projects. Rich has supported a wide variety of roadway projects for both temporary and permanent drainage design for enclosed and open drainage systems. Rich and his hydraulics team also support hydraulic analysis for open channel hydraulics for systems large and small.



Tim Baumann, RPA

Experience: 34 Years | **Location:** Ballwin, MO

Tim is a senior technical manager with experience working in archaeology, historic preservation, and museum studies in the Midwest and southeastern states. He has worked with government agencies, Native Nations, historic sites and parks, museums, and historical societies to support historic preservation and cultural resource compliance as mandated by state and federal laws and regulations. In addition, Tim has researched precontact and historical archaeology from the Mississippian period to the mid-20th century.

Familiarity/Capability

WSP is familiar with federal aid projects and delivering projects that are compliant with local, state, and federal requirements. As a national infrastructure firm, we work with federal, state, and local clients every day to deliver a wide range of project types with federal aid that are compliant with federal law. Locally, we have participated in numerous projects for both MoDOT and local public agencies that utilized federal grant money.

For all MoDOT design work we will continue to use the Engineering Policy Guide (EPG) as the primary guidance through both design and Local Public Agency (LPA) processes to deliver the highest quality projects. WSP has recently reworked our Quality program to conform our internal system to the requirements of the International Organization for Standardization (ISO) 9001, which is the most comprehensive of the ISO standards and the one most directly applicable to our bridge design work. Project-specific QA/QC plans are developed at the beginning of each project to identify the design staff and their role on the project, each deliverable and their associated deadline, and the QC/QA staff necessary to properly submit each deliverable.

Accessibility of Firm And Staff

With multiple offices and key staff in St. Louis, Jefferson City, and Kansas City, WSP is poised to deliver efficiently and in a responsive manner for any assignment that MoDOT considers us for. Our history working for public agencies can be validated, Tim Nittler (Bi-State Development Agency, tnittler@MetroStLouis.org), Stephanie Leon Streeter (St. Louis County Department of Transportation and Public Works, sleonstreeter@stlouiscountymo.gov), Jarek Czernikiewicz (City of St. Louis, czernikiewiczj@stlouis-mo.gov). With a diverse and growing team across Missouri, WSP is poised better than ever to serve the state of Missouri through the LPA program.

WHY IS WSP A YES?



WSP has a commitment to quality, technical excellence, the respect of our peers, and, most importantly, our client focus. We understand the complexities and requirements of delivering federally funded projects for local agencies and the need to meet the obligations this funding demands. We place the same importance on serving local agencies throughout Missouri that we do for our state and federal agency projects. If you have any questions regarding our submittal or would like to discuss it in greater detail, please contact me directly at 314-206-4262 or dan.dearmond@wsp.com.



Dan DeArmond, PE | Transportation Business Line Leader, Missouri



Question Today
Imagine Tomorrow
Create for the Future

ABOUT WSP

WSP USA Inc. (WSP), one of the world's leading engineering and professional services consulting firms, provides services designed to transform the built environment and restore the natural one. Our expertise ranges from environmental remediation and urban planning, to engineering iconic buildings and designing sustainable transport networks, to developing the energy sources of the future and enabling new ways of extracting essential resources.

An industry leader for more than a century, WSP is currently at work on hundreds of transportation projects nationwide, including transit and rail, highways, airports, and seaports. Our history of transportation engineering began with the design and construction of the original New York City subway (1891-1904). Since that time, the WSP team has contributed to countless highways, bridges, tunnels, ports, and airports, among them some of the most well-known transportation infrastructure projects in the U.S.

Approximately 73,000 employees, including engineers, technicians, scientists, architects, planners, surveyors, program, and construction management professionals, as well as various environmental experts, work for this dynamic organization in more than 500 offices across 50 countries worldwide.

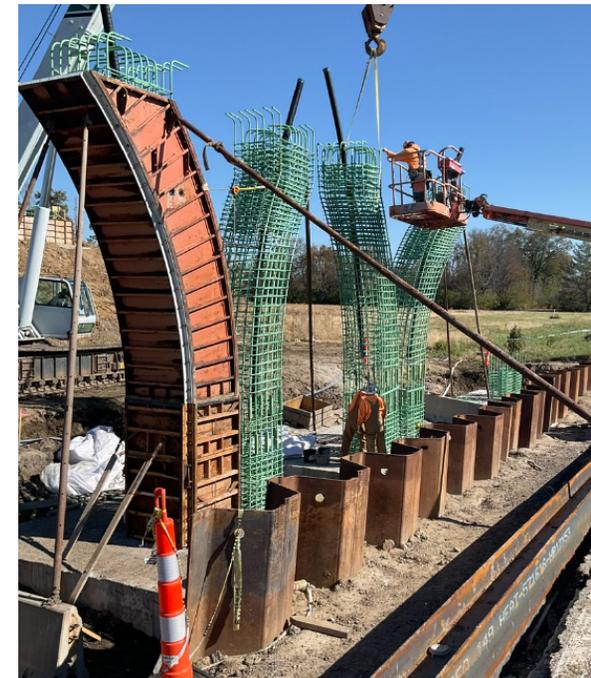
WHAT WE DO

SECTORS

- TRANSPORTATION & INFRASTRUCTURE
- PROPERTY & BUILDINGS
- WATER & ENVIRONMENT
- ENERGY
- ADVISORY SERVICES

SERVICES

- STRATEGIC CONSULTING
- PLANNING
- PROGRAM MANAGEMENT
- ENGINEERING
- CONSTRUCTION MANAGEMENT
- OPERATIONS & MAINTENANCE



WSP'S PRESENCE IN MISSOURI

WSP has a strong presence in **Missouri** and has supported state and local public agencies in designing and implementing a wide range of projects. Recent growth and acquisitions have resulted in bringing our total number of Missouri employees to over 700, including architects, planners, engineers, and environmental professionals. By collaborating with our colleagues around the globe, we are able to combine global reach with strong local knowledge.

Our **St. Louis** area offices serve a wide variety of infrastructure, environmental, and building markets for both public and private sector clients ranging from MSD St. Louis Sewer District to Bi-State Development (Metro), East-West Gateway Council of Governments (EWGCOG), Great Rivers Greenway, St. Louis and Jefferson Counties, and Ameren.

Our **Kansas City** office, established in 2001, relocated to downtown Kansas City from Lenexa, and expanded to provide an array of services including transportation planning and design, environmental, and cultural resources support for a variety of local agencies in Missouri including Mid-America Regional Council (MARC), North Kansas City, and the City of Kansas City.



WSP MISSOURI OFFICES:

Kansas City | Jefferson City | Ballwin | Creve Coeur | St. Louis



700 MISSOURI TEAM MEMBERS

250 Civil	35 Technicians
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10 Mechanical	20 Cultural Resources
140 Electrical	20 Architects
35 Geotechnical	25 Program Management & Project Controls
60 Environmental	
25 Natural Resources	

At WSP, we have extensive experience in all forms of transportation, including airports, streets and highways, bridges, rail systems, buses (including Bus Rapid Transit), and ports. We work under many different forms of project delivery, and are involved in design-bid-build and public-private partnerships (P3) projects, as well as design-build (DB) projects. We also provide broad oversight and direction of complex capital projects, and we have worked on integrated teams with our clients to deliver some of the region's largest and most well-known transportation infrastructure projects.

Specialty services include a full range of planning and environmental review, value engineering, financing and procurement strategies, signal operations, technology innovation support, and public involvement activities including social media and mobile applications to assist clients in informing and engaging with project stakeholders and the public. We can deploy the latest technological advances, such as virtual design and construction (VDC) or building information modeling (BIM) which enable teams to identify and solve potential problems early, in a virtual environment, before construction begins.

MISSOURI EXPERIENCE

- Environmental Planning
- Master Planning
- Corridor Planning
- Corridor Studies
- Signal Optimization
- Public Involvement
- Financial Planning
- Design & Engineering
- Architecture & Facility Design
- Condition Assessment
- Structural Engineering
- Mechanical Engineering
- Value Engineering
- Electrical Engineering
- LEED Design
- Civil Engineering
- Traffic & Transportation Engineering
- Intelligent Transportation Systems
- Water Resources Engineering
- Construction Administration
- Construction Management
- Program Management
- Public Private Partnerships



MISSOURI PROJECTS

City of Kansas City, Reconnecting the West Side PEL Study: This is a community-oriented planning study focused on the barriers created by legacy infrastructure investments in the mid-20th century and onward. In partnership with MoDOT, FHWA, KDOT, and MARC, the City of Kansas City is leading an effort to explore future alternatives for I-35. The PEL study developed a statement of purpose and need focused on improve transportation safety, creating new multimodal connections across existing barriers, and maintaining a state of good repair in the neighborhood, among several other community-focused goals. The project will develop and screen a range of short- and long-term alternatives that meet these needs and goals and identify reasonable alternatives.

Hodiamont Greenway: working for Great Rivers Greenway in partnership with the City of St. Louis and Bi-State Development, WSP is providing conceptual and final design for the phased conversion of St. Louis' oldest streetcar line to a modern urban greenway. Services included Phase 1 environmental investigations, concept development, traffic and safety engineering, preliminary and final design. The three and a half mile route includes dozens of at-grade street crossings as the corridor has essentially served as an alley within the city street grid.

EWGCOG/MoDOT, Arterial Assessment Study - Blueprint for Arterials: The EWG-MoDOT Arterial Assessment 2024 represents a paradigm shift for the St. Louis Region. The resulting Blueprint for Arterials is intended to be a planning and design development tool for each of the major agencies in the St. Louis region. The Blueprint provides for a consistent process with flexibility in design and a focus on creating improvements that accommodate all users. The document aligns regional policies and procedures with design tools and traffic calming features for 24 roadway typologies found in the region.

Jefferson County Port Authority: working under an on-call contract, WSP has provided master planning and environmental support, grant writing and roadway design for the on-going conversion of a former lead smelter site into the new Jefferson County Port. Design services include bid documents for the new access road for the future development, bid and construction phase support.

Grand Boulevard, City of St. Louis: as part of the City's Principal Arterials Safety Enhancement Program, WSP provided concept development, planning, stakeholder engagement, and final design documents for a 7.5 mile section of Grand from north of I-70 to Holly Hills Avenue in South St. Louis City as well as two additional high-crash locations in the City. Scope included an extensive re-imagining of the corridor including ADA improvements, bus stop treatments, curb bump outs, lane reductions, and implementation and improvement of dedicated bike lane.

LOCALLY DEDICATED WITH INTERNATIONAL SCALE

WSP offers a global scale of services and intelligence combined with local knowledge of the communities in which we work. We provide the specialized expertise and responsiveness of a local firm, with the breadth and depth to successfully deliver large and complex projects. Our team includes talented, skilled, and experienced professionals who are:

- PASSIONATE about problem solving
- LEADERS in their technical fields
- COMMITTED to unrivaled service
- DEDICATED to improving their communities

MoDOT On-Call Services: providing traffic and safety analysis, roadway design, bridge design, signal optimization, sign inspection, value engineering, environmental, geotechnical, and ADA design services on over 25 assignments over the last ten years in St. Louis, Northeast, and Kansas City Districts.

I-55 Jefferson County Design-Build Owner Support: serving as MoDOT’s planning, traffic, and engineering support for this \$246M design-build project. Tasks included concept development, preliminary engineering, traffic analysis, risk, environmental support, and cost estimating. Services span pre-RFQ, procurement phase, and starting in 2024, design and construction phase services.

MoDOT Signal Optimization: WSP has performed dozens of signal optimization projects over the last 15 years including traffic signal timing, phasing, and coordination on various corridors in MoDOT’s St. Louis District. Recent corridors include MO 115, 21, EE, U, and I-70 interchanges. The work included collection of traffic count data, synchro analysis of existing conditions, development of proposed timing and phasing improvements, implementation of timing changes, field review, and final field timing optimization.

WORKFORCE DIVERSITY

At WSP, our collective diversity of thought, experience, and background comprises the strength of our firm. Our inclusive culture is one that accepts, values, and recognizes the strength of the difference each individual brings to our team.

It is our policy to ensure the organization attracts, develops, respects, motivates, and retains highly skilled people without regard to race, religion, color, national origin, sex, age, sexual orientation/gender identity, disability, status as a veteran, or any other class protected by applicable federal, state, or local laws at all levels of employment. We provide reasonable accommodations for disability, limited language proficiency and religious practices to fulfill our policy.

We seek talented people from backgrounds and cultures as rich and varied as the work we do. Our offices have a diversity policy that embraces a diverse workforce and actively seeks opportunities to employ women and minorities and provide them with leadership opportunities. We also have a history of promoting a science, technology, engineering, and math (STEM) career path to local high school and college age women and minorities. Examples of this commitment include fundraising towards the Women’s Transportation Seminar (WTS) scholarship fund and participating in “Introduce a Student to Engineering Day” during engineer’s week.



GUIDING PRINCIPLES

We value our people and our reputation. We make extraordinary efforts to attract, develop, engage and retain the best professionals in our fields of expertise because this is what makes us great. We put the highest ethical standards at the center of all we do. We are humble and act with moral and intellectual integrity, keep our word, treat everyone with respect, support our colleagues, and embrace diversity.

We are locally dedicated with international scale. Our strength is our ability to adapt to our client culture and local markets. We provide our clients with the same personalized services as a specialist firm while at the same time leveraging our worldwide expertise to undertake the most complex projects and assist our clients to realize their ambitions.

We are future-focused and challenge the status quo. We anticipate trends in order to propose innovative ideas for our clients to meet their business objectives. We ask questions, look at complex problems from different angles and find solutions that break paradigms. We are problem-solvers who evolve, improve, modernize and excel. We know our solutions will shape the communities of tomorrow and help societies thrive sustainably.

We foster collaboration and partnership in everything we do. Our international agility is founded on our collaborative working environment. Our devotion to teamwork creates unique international networks of outstanding professionals who understand that great achievements come from collaboration.

We have an empowering culture and hold ourselves accountable. We are empowered to turn challenges into opportunities while being held accountable to standards beyond the norm. Our proactive leadership empowers us to be client-focused, agile and responsive, while at the same time being accountable to our clients, our peers and our shareholders.

PROJECT SUCCESS

Our success on each project begins with a detailed understanding of the project’s scope, budget, and schedule. This specific understanding—which includes information on the community impacts during and after construction—allows us to provide the right match of resources and experience to deliver the project on time and within budget. We understand the right team is not dictated by numbers of available staff, but the right expertise to execute a solid approach, which will exceed our client’s goals.

OUR PURPOSE
We exist to shape communities to advance humanity.

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