



**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)

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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**



Trails & Sidewalks - MoDOT LPA 2026-2029

December 12, 2025

Ashley Buechter, PE
Local Program Administrator
MODOT – Local Program
105 West Capitol Avenue
P.O. Box 270
Jefferson City, Missouri 65102

Benesch is pleased to submit our qualifications to provide **Trails and Sidewalks design services** for Missouri's Local Public Agencies under the 2026 to 2029 On-Call program. Our team has decades of experience partnering directly with cities, counties and local sponsors across Missouri to plan, survey, design and deliver pedestrian and bicycle improvements. We understand the specific requirements LPAs must meet throughout the federal-aid process, including environmental clearance, right of way, acquisition ADA compliance, documentation and public engagement. Benesch is committed to providing practical, community-focused support that helps LPAs develop safe, connected and fully compliant trail and sidewalk projects.

GENERAL EXPERIENCE OF FIRM

Trails, sidewalks and greenways have become essential components of active communities, with nearly 75 percent of Americans participating in outdoor recreation. LPAs rely on these facilities to improve mobility, safety and neighborhood connectivity. Benesch helps local agencies create accessible pedestrian networks that reflect community priorities and support long-term growth.

Benesch delivers trail and sidewalk improvements through a full range of integrated services:

Master Planning and Visioning: Identify corridor goals, evaluate connectivity to parks, schools and business districts, and develop implementable priorities.

Land Surveying & Right of Way Services: Benesch maintains a full-service Survey Group providing topography and right of way retracement surveys.

Design Development: Prepare plans that prioritize safe and accessible pedestrian connections, addressing trail and sidewalk geometrics, ADA compliance, drainage, lighting, landscape enhancements, utility coordination, and required project documentation in accordance with the LPA Manual.

From Vision to Reality

LPAs often face challenges with funding, permitting, ROW documentation and community expectations. Benesch helps local sponsors navigate each step of the federal-aid process, from concept through final delivery. We prioritize consensus-building and clear communication so decision makers, stakeholders and residents stay informed and engaged. This approach helps communities advance projects from early concepts to ribbon cutting.

Designing Healthy and Connected Communities

Benesch has enhanced pedestrian networks nationwide, creating safe, accessible routes that integrate naturally into neighborhoods and landscapes. Our trail and sidewalk projects prioritize safety, ADA accessibility, user comfort and long term maintainability - supporting active transportation, community identity and healthier lifestyles.

Grant Assistance

Our team has a proven track record securing grants for trail, sidewalk, and park projects across the Midwest. We help LPAs develop competitive applications, position projects within broader community goals, and maximize available funding sources. We provide a trusted, experienced partner to turn financial opportunities into infrastructure improvements that last.

FAMILIARITY/CAPABILITY

Benesch has delivered projects for MoDOT and LPAs for more than 60 years. We understand the expectations for state and federally funded projects, are fully versed in the environmental and ROW processes and routinely assist with municipalities in delivering LPA Manual-compliant projects. Our team consistently provides the quality and thorough documentation expected across Missouri.

ACCESSIBILITY

Our team is ready and able to get to work immediately. We are committed to finding the practical, buildable solutions that respect schedule and budget constraints. Our team values communication, responsiveness and innovation, and we tailor our approach to meet the needs of each local agency we serve.

PAST PERFORMANCE

Benesch has a strong record of delivering trail and sidewalk projects that enhance connectivity, safety and community character. Our clients value our responsiveness, reliability and clear communication throughout planning, design and construction. We strive to function as an extension of your staff, providing practical, timely support. The following projects illustrate our experience in Trails and Sidewalks and demonstrate how we consistently meet local needs and technical requirements.



MULTI-USE TRAILS, PHASE I & II, CITY OF MCPHERSON, KS: Benesch completed a trail study in the southeast part of the City. Growing interest in bicycle use and multi-use facilities had led to a sales tax for sidewalk improvements. The City sought a plan to prioritize projects and leverage funding available from various sources. The presence of the Union Pacific Railroad in the study area required creative strategies to ensure non-conflict interfaces between multi-use paths and the railroad right-of-way. Benesch evaluated and developed a plan to expand the multi-use path system in the southeast quadrant. The study produced a phased construction approach to improve connectivity among parks and public facilities, as well as retail and residential areas. Phasing allowed projects to be readily developed and submitted for alternative funding sources, including KDOT's Safe Routes to School program and the Transportation Alternatives program. The City ultimately used the Benesch report to prepare its Transportation Alternatives funding application.



NEIGHBORHOOD STREETS RECONSTRUCTION PROGRAM (CNIP), CITY OF KANSAS CITY, KS: Within one month, Benesch engineers were able to prepare bid plans for 56 separate ADA ramps at 24 intersections throughout the County. As a second phase, Benesch prepared bid plans for an additional 116 ADA ramps at 41 intersections. Benesch developed new ADA ramp standards and plans using available topographic information. Each site was inspected by Benesch to verify existing conditions and constraints. Benesch provided 11,200 linear feet of new and replacement sidewalks, storm sewer improvements and 46 ADA ramps. A second cycle of this program was completed, including 8,000 linear feet of new or replacement sidewalk, storm sewer improvements, 1,200 linear feet of park trails and 42 ADA ramps.



SIDEWALK IMPROVEMENT PROGRAM, CITY OF OLATHE, KS: As part of Olathe's commitment to preserving previous investments and maintaining safe, pedestrian-friendly routes to schools, community centers and recreational locations, the City partnered with Benesch to develop design plans for multiple sidewalk locations. Improvements include new sidewalk segments, ADA ramp installations, curb and gutter rehabilitations and light pole enhancements. The work requires relocating utility lines, junction boxes and manholes. Coordination with residents is necessary, as minor adjustments to driveway entrances and mailbox locations are sometimes required. The overall objective is to provide safe walking and biking opportunities to schools and downtown destinations while promoting an active and healthy lifestyle.



CEDAR CREEK TRAIL PHASES 1-3, CITY OF OLATHE, KS: Benesch delivered survey and engineering design services for the multi-phase Cedar Creek Trail Improvements, creating 2.7 miles of ADA-compliant asphalt trail linking Lake Olathe and Cedar Lake recreational facilities. The project required close coordination to address environmental, hydraulic and infrastructure challenges across the corridor. Benesch used a boots-on-the-ground approach to refine alignment options, considering streamway crossings, road underpasses and tree preservation to balance constructability with community-desired views. Technical design elements included integral walls, culvert and abutment design and HEC-RAS modeling to achieve a no-rise condition in the 100-year floodplain. The work also involved securing multi-level permitting and coordinating with BNSF Railroad to develop a viable under-bridge crossing, demonstrating Benesch's ability to manage complex, multi-agency trail projects.



SAFE ROUTES TO SCHOOL PROGRAMS, ATCHISON, HERINGTON, LARNED AND PHILLIPSBURG, KS: Benesch has supported multiple Kansas communities with Safe Routes to School planning and design focused on improving pedestrian safety and walkability for students. In Atchison, Benesch is managing the KDOT-funded 5th Street Phase 3 project, which includes new sidewalks, ADA ramp repairs, curb and gutter improvements, enhanced crosswalks and a pedestrian crossing signal to strengthen connections between Downtown Atchison and Benedictine College. In Larned, Benesch developed a Phase 1 SRTS plan for Ft. Larned Elementary School using parent surveys, stakeholder meetings and field assessments to recommend sidewalk connectivity, crosswalk upgrades, signage enhancements and educational strategies. Across all four communities, Benesch applied the five core SRTS pillars and established frameworks that position each district for future funding and long-term safety improvements.

QUALIFICATIONS OF PERSONNEL

Our multidisciplinary team is aligned with the needs of MoDOT and Missouri LPAs. Each professional offers substantial experience on comparable projects and is prepared to commit the necessary time, resources and communication to ensure successful project completion.



MATT HENDERSON, PE | PROJECT MANAGER: Matt is experienced in delivering infrastructure improvements for public sector clients, including transportation, water resources and utility projects. His work includes preliminary engineering, project budgeting, value engineering and construction document development, along with extensive experience in trail, park and roadway planning and design. He has led trail system design, ADA-compliant facility planning and pedestrian bridge engineering for Shawnee Mission Park's South Loop Trail and other Kansas trail projects. His background in permitting, public engagement and construction observation supports efficient and well-coordinated LPA trail and sidewalk projects.



MICHAEL HEGIERT, PE | PROJECT MANAGER: Michael brings broad experience in transportation, drainage and trail design, with strengths in plan development, permitting and practical, constructable solutions. He works closely with regulatory agencies to ensure compliance with state and federal requirements and has supported communities in securing funding through KDOT programs, Transportation Alternatives projects and other grant opportunities. His background in both urban and rural infrastructure design helps him deliver solutions that match LPA needs and project conditions, and his versatility supports efficient, well-documented and buildable projects.



ANDREW SMITH, PLA | LANDSCAPE ARCHITECT: Andrew is a licensed Landscape Architect and project manager with experience delivering landscape architecture projects across the Midwest. His work emphasizes context-sensitive design, sustainability and user experience, with strengths in site planning, planting design, grading and amenity integration for public spaces, healthcare campuses, commercial sites and infrastructure corridors. His collaborative approach and ability to coordinate across disciplines results in functional, visually cohesive designs that enhance community environments while meeting client and regulatory expectations.



FREDDY VASQUEZ, AICP | TECHNICAL GRANT WRITER: Freddy is a transportation planner and grant writer with experience securing funding for infrastructure, transportation, trail, park and community development projects. He has extensive knowledge of federal, state and local grant programs and has coordinated and administered millions of dollars in awarded funds. His expertise preparing competitive applications and funding strategies, including Transportation Alternatives, Safe Routes to School and other pedestrian-focused programs, helps communities navigate complex grant processes and pursue funding opportunities effectively.



JIM JUSSSEL, PE, PTOE | SENIOR PROJECT MANAGER / TRAFFIC ENGINEER: Jim is a senior traffic operations engineer with experience that includes traffic studies, pedestrian safety improvements and multimodal design. His background spans ADA ramp upgrades, traffic signal design, roundabout analysis, traffic calming and numerous sidewalk and Safe Routes to School projects. He integrates sidewalk design with traffic operations to create safe and accessible pedestrian networks, and his extensive sidewalk, SRTS and pedestrian safety work provides LPAs with practical design guidance that aligns with traffic operations and ADA requirements.



ETHAN DEARDEUFF, PE | PROJECT ENGINEER: Ethan is a project engineer with experience supporting transportation, trail, drainage and utility projects for public agencies. His background includes preliminary engineering studies, value engineering, construction document production and extensive utility coordination. He has contributed to ADA-accessible trail and park improvements, pedestrian bridge design and storm drainage upgrades for projects in Shawnee Mission Park, Olathe and Johnson County. Ethan also provides construction oversight and permitting support to help ensure pedestrian and trail facilities meet technical and regulatory requirements.



STEVEN WEST, PLS, EI | SENIOR SURVEYOR: Steven is a senior surveyor with extensive experience supporting transportation, sidewalk, trail and park projects through corridor surveys, topographic mapping, right-of-way retracements and construction staking. His work includes surveying for transportation corridors, utility infrastructure, ADA sidewalk upgrades, pedestrian bridge projects and multi-mile trail systems. He has provided survey services for Cedar Creek Trail and Pedestrian Bridge, Coffee Creek Trail Improvements and sidewalk projects in Phillipsburg and Larned, along with multiple park and stormwater improvements.

Thank you for your consideration. We appreciate the opportunity to support Missouri's LPAs and value the trust placed in us to advance community trail and sidewalk initiatives. Our team is ready to meet challenges, enhance connectivity and accessibility, and deliver high-quality results. Please contact us with any questions.

Robert R. Krewson, PE
Sr. Vice President

Matt Henderson, PE
Project Manager



WORKFORCE DIVERSITY

Benesch continues our commitment to identify ways to increase inclusivity and opportunity through hiring and retention programs. At Benesch we believe that promoting inclusion within our staff isn't just the smart thing to do from a business perspective—it's the right thing to do. Every person should enjoy the opportunity to come to work, add value and feel valued for their contributions.

Benesch has taken intentional steps to attract diverse candidates and create inclusive environments so employees can become embedded in the organization.

Some of those include:

- Intentional recruitment and organizational support.
- Meaningful leadership and employee training.
- Employee Resource Groups
 - Benesch Pride, for LGBTQ+ identified employees and allies
 - Benesch Cultural Alliance, for minority/culturally diverse employees
 - Benesch Strong Divers-ability, for employees impacted by disabilities
 - Women of Benesch, which connects women across the company

ROADWAY

Hundreds of highway and minor roadway miles have been designed by Benesch engineers. We routinely work with state DOTs and their FHWA counterparts to rehabilitate, modify or create new roadways and bridges that effectively connect people and places. Our transportation projects traverse farm lands, urban cities and everything in between.

We provide much more than geometric solutions, however. You can consider Benesch a one-stop shop for all civil infrastructure needs. Within our team, we have staff experts in areas such as MOT, drainage, traffic engineering, electrical engineering, surveying and geotechnical.

Quality is our top priority. We deliver plans that are quality-checked for constructability, enabling clients to use a low-bid system to their advantage. In addition, we go the extra mile to ensure minimal change orders and field issues during construction. **Our areas of expertise include:**

- Highway and Toll Roads
- Interchanges
- Utility Coordination
- Horizontal and Vertical Alignment
- Drainage
- Maintenance of Traffic
- Agency Coordination/Permitting
- Surveying
- Roundabout Design
- Traffic Signals
- Sidewalk/Trails
- Lighting Design

GRANT ASSISTANCE

For decades, our team of experts has successfully completed grant applications for a wide variety of projects with values totaling in the millions. Our expertise has helped clients stretch their budgets with creative funding strategies that combine and maximize potential available dollars. We bring you an experienced team well-versed in all facets of grant applications and ready to assist with your next project.

VALUE ENGINEERING

Value Engineering (VE) is one of Benesch's core services, and we have a rich history of project success in this area. Benesch began practicing VE in 1979. In 1989, we were the first consulting engineering firm to receive the SAVE International Excellence in Value Engineering Award, which recognized ten years of outstanding contributions to the practice of VE.

Over the last 30 years, Benesch has been able to positively impact our clients' projects by saving millions of dollars, sharpening project schedules and developing innovative ways to manage life-cycle costs, all through the application of VE principles.



TRAFFIC ENGINEERING

The Benesch team combines traffic engineering expertise with real world experience to develop innovative, practical, sustainable and cost-effective solutions. Our team is committed to staying at the forefront of the latest traffic engineering technologies. We use advanced tools like Miovision traffic cameras and sophisticated in-house simulation software such as Synchro, SimTraffic, Vissim and HCS. These tools enable us to better understand design implications and meet project needs. Benesch engineers strive to develop practical, sustainable solutions. Tackling traffic issues from the “demand side” to encourage multi-modal and environmentally friendly solutions is just as important as looking at traditional “supply side” solutions that involve physical improvements. **Our areas of expertise include:**

- ITS Management and Design
- Electrical Engineering
- Noise Studies
- Traffic Impact Studies
- Origin and Destination Studies
- New and Modernized Signal Design
- Highway Operational Analysis
- Travel Demand Modeling
- Safety Studies
- Structures
- Access Management Studies
- Gap Analysis
- Traffic Signal Coordination and Timing (SCAT)
- Signal Timings
- Intersection Analyses
- Corridor Progression Analysis
- Level of Service Analysis
- Traffic Data Collection
- Maintenance of Traffic Plans

GENERAL CIVIL & STRUCTURAL ENGINEERING SERVICES

Benesch prides itself on providing a wide array of civil engineering services, quality based engineered solutions and client satisfaction. Our expertise lies in most all areas of civil and structural engineering including geotechnical engineering, environmental assessments, sustainable design and value engineering. Our responsiveness to short term, long term and emergency needs is well known among our clients. In addition, our clients will tell you that the attention to detail in our engineering documents sets the standard for quality.

The Benesch team resume includes a variety of civil/structural studies and designs for many clients across the United States. Our experience in municipal engineering provides a solid knowledge base that will be a valuable resource. Additionally, our work with numerous small and large scale commercial developments is particularly important. Many of our projects have involved public involvement and environmental permitting efforts that required specialists within Benesch. Further, managing and improving infrastructure facilities requires knowledge not only of pertinent design standards but also sustainability. Our engineers are well versed in designs that accommodate all types of users including complying with the Americans with Disabilities Act and the pursuit of LEED certified projects.

STRUCTURAL

From road stream crossings to high-profile arch bridges, the structural team at Benesch has designed thousands of bridge structures ranging from 35 to 2,000 feet. Our engineers are proficient in the study and design of continuous complex structures, including plate girder, tied arch, segmental box girder, continuous/cantilever truss and cable stay bridges. In addition, we specialize in high order finite element analysis associated with various forms of nonlinear and buckling behavior. We are relentless in the pursuit of industry advancements, and pride ourselves on implementing innovative solutions. **Our areas of expertise include:**

- Simple, Typical and Complex Bridges
- Major River Crossings
- Railroad Bridges
- Pedestrian Bridges
- Inspections and Ratings
- Bridge Retrofit and Rehabilitation
- Retaining Walls
- Culverts
- Seismic Analysis
- Bridge Modeling
- Structural Survey
- Value Engineering

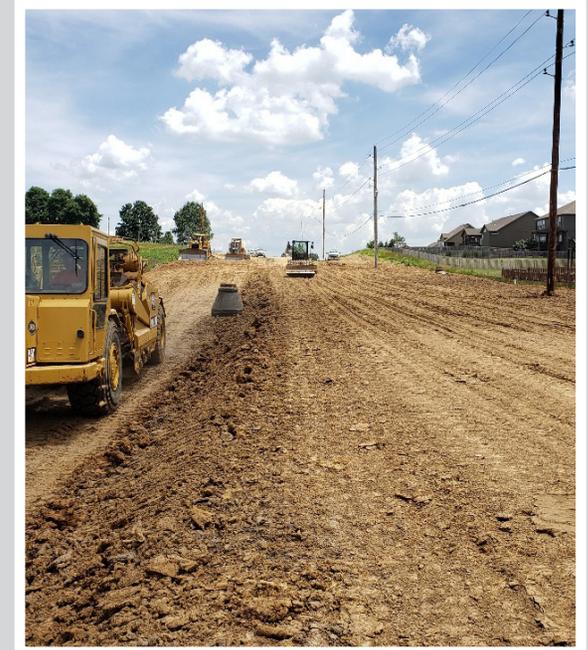
CONSTRUCTION MANAGEMENT

Benesch provides construction services for roadway, bridge, aviation, railroad and building projects. Our construction staff has years of experience overseeing contractors, coordinating subconsultants, testing materials and executing complex staging plans. We continuously monitor all phases of a project's development, from data collection and field surveys through contract documents and construction observation.

Through hundreds of DOT and LPA federal aid projects, we have the experience and background to work successfully with the FHWA, MoDOT Construction staff and Local Public Agencies. We are a full-service provider that brings a proven approach, based on efficient operations and utilizing versatile, knowledgeable, experienced staff who understand the work being performed and the construction engineering services required to satisfy project oversight requirements.

We have experts on staff who are able to provide assistance should major changes or unanticipated situations arise. Besides construction, our staff includes designers and scientists ready to provide support. Their proximity and accessibility allows for rapid response and accurate advice. This ultimately leads to successful projects, prevents surprises, and helps avoid lengthy delays. **Our areas of expertise include:**

- Construction Observation
- Design-Build
- Shoring Tower Design
- Schedule Management
- Earthwork Quantities
- Temporary Earth Retention Systems
- Cost Management
- Pavement Quantities
- Demolition Plans
- Structural Engineering
- Value Engineering



MECHANICAL / ELECTRICAL / PLUMBING

Benesch offers a full spectrum of MEP services to our clients. Professionals in our Kansas City office provide design, consulting and sustainable solutions for mechanical, electrical and plumbing systems. Our services include design drawing preparation, specifications, and cost estimates. We bring a strong foundation of industrial and commercial engineering experience, including both new construction and the renovation of existing facilities. Over the past twenty years we have completed projects in wastewater treatment plants, hospitals, schools, military facilities, vehicle maintenance buildings, telecommunication facilities, correctional institutions and various commercial buildings.

Mechanical Practice Areas:

- Heating, Ventilating and Air Conditioning Systems
- Exhaust Systems
- Chilled and Heating Water Systems
- Facility Assessment & Energy Audits
- Life Cycle Cost Analysis
- Industrial Ventilations
- Energy Recovery
- Temperature Controls
- Solar Thermal Systems
- Direct Digital Control (DDC) Systems

Electrical Practice Areas:

- Power Distribution
- System Analysis, Assessment and Planning
- Interior and Exterior Lighting Design and Controls
- Energy Code and LEED Compliance
- Fire Alarm Systems and Emergency Power Systems
- Paging, Public Address, and Sound Systems
- Uninterruptible Power Supply
- Programmable Logic Controls
- Facility System Controls and SCADA Systems

Plumbing Practice Areas:

- Facility Plumbing Systems Design
- Process Systems Piping
- Site Utilities and Yard Piping Systems
- Distribution Systems
- Storm Water Systems



STORMWATER MANAGEMENT

We develop stormwater solutions that provide value while respecting the environment. Our engineers and professional staff provide clients with a host of services including stormwater design and modeling; comprehensive planning and management services; and Low Impact Development (LID) expertise. Whether on a watershed-wide or site-specific project, Benesch has the unique ability to balance function, cost and aesthetics while ensuring compliance to all local and regulatory requirements.

Using advanced software and analytical tools, our staff combines technology with expert engineering knowledge to ensure our designs offer value-based solutions to meet our client's project needs. Whether that be for building sites or roadways and infrastructure, Benesch's team of planners, hydrologists and civil and hydraulic engineers are prepared to assist with your flooding, water quality, regulatory issues or any other stormwater need. **Our areas of expertise include:**

- AAL / BRE Analysis
- Alternatives Analysis
- CIP Development
- Closed System Modeling
- Dams
- Environmental Permitting
- FEMA Mapping
- H&H Modeling
- Levees
- Master Planning
- MS4 Water Quality
- Stormwater Management
- Stormwater Design

GEOTECHNICAL

Our geotechnical engineers, geologists, and scientists specialize in identifying solutions that mitigate construction challenges and make good business sense. Our goal is to balance initial construction capital costs and the ongoing operating costs over the life of the proposed structure or transportation system. Benesch's proactive approach to construction material design can reduce or eliminate unforeseen construction delays and overall construction costs. We promote optimum service life for the structure or transportation system once it is in operation. Benesch has the capability to service any project location.

Our materials testing laboratory is certified by the American Association of State Highway and Transportation Officials (AASHTO). Our technicians are experienced in the laboratory test procedures necessary to evaluate the pertinent engineering properties of foundation materials for design and certified in concrete, asphalt, aggregate and soils testing by NICET, ACI and several state DOTs for materials testing during construction.

ENVIRONMENTAL

At Benesch, we bring substantial local, regional and national environmental consulting experience and strategic insights to our clients. Our environmental specialists provide due diligence services; Brownfields and property development assessment; hazardous building materials consulting to include asbestos, lead based paint, IAQ; regulatory compliance; and permitting.

As complex environmental issues can have major impacts on project budgets and schedules, Benesch develops innovative and cost-effective solutions to environmental risk management challenges. We assist our clients by finding solutions that offer a balance between environmental stewardship and results-based business practices.

Our areas of expertise include:

- Compliance and Due Diligence
- Investigations and Remediations
- NEPA Services
- Natural Resources
- Facilities
- Brownfields / Hazardous Materials
- Noise Analysis
- Public Involvement
- Threatened and Endangered Species
- Wetlands