



**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:

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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**

# LPA On-Call Professional Services - Structures

Missouri Department of Transportation (MoDOT) Local Program

December 12, 2025



**Hg**  
Consult  
Inc

**Point of Contact: Justin Davis, PE**  
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*Hg has enjoyed a successful partnership with MoDOT Local Agencies since our firm was founded in 2010. We are currently an approved consultant and on the official prequalification list. Thank you for the opportunity to submit on this project.*

Dear Selection Committee Members:

Delivering structural plans for the Local Program requires a bridge consultant with strong familiarity with MoDOT LPA requirements, deep technical expertise, fast responsiveness, and proven coordination across hydraulics, geotechnical, environmental, survey, and right-of-way disciplines. Hg Consult, Inc. (Hg) brings that capability. Our team has supported MoDOT for more than 10 years, consistently producing clear, constructible bridge designs that meet standards, control costs, and keep projects moving.

Our recent work on FARM Bridges, Business Loop 44 over I-44 in Rolla, Route AA South Fork over Turkey Creek, and Route AA over Johnson Creek reflects our strength in rehabilitations and rural bridge replacements. These projects demonstrate our ability to develop accurate plans and practical details while managing the coordination needed for hydraulics, geotechnical review, and environmental and ROW considerations.

Key Hg strengths include:

**Technical Expertise in Rehabilitation & Rural Bridge Replacements.** Our structural team has brought together individuals from a diverse background with combined experience on hundreds of successful bridge rehabilitations and replacements over the past 20 years. We understand how to balance structural needs, hydraulics, constructability, and budget on small structures and high-priority interstate bridges. Our work consistently reflects practical, buildable, cost-aware solutions aligned with MoDOT standards.

## **Long History of Successfully Delivering for MoDOT.**

MoDOT's continued selection of Hg for the past four statewide bridge design on-call cycles reflects sustained confidence in our performance. Across these contracts, Hg has consistently advanced rural bridge replacements, rehabilitations, and complex structural assignments with the schedule discipline and coordination expected by district staff.

**Strong Communication & Collaboration.** Hg has demonstrated integrated, efficient coordination with MoDOT, Local Agencies, project teams, and partnering consultants, bringing a communication approach built on clear expectations, early issue identification, and disciplined coordination. We bring that same approach to this contract, ensuring

reviews, decisions, and schedules stay on track so Local Agencies and MoDOT staff always understand project status.

Hg stands ready to support the LPA Program with a responsive, experienced bridge design team committed to delivering practical, cost-effective, and fully coordinated structural solutions statewide.

Respectfully submitted,

**Justin Davis, PE**

Project Manager, Bridge Design Group  
Hg Consult, Inc.

## **FAMILIARITY AND CAPABILITY**

Hg brings extensive MoDOT bridge experience and a strong understanding of the Department's structural, hydraulic, and design review processes. Our engineers develop practical, buildable, and cost-aware solutions that balance structure type, hydraulics, scour, staging, and constructability for rural replacements, rehabilitations, and higher-priority structures.

Our performance on statewide on-call contracts demonstrates our ability to coordinate efficiently with MoDOT staff, FHWA, and project partners. With disciplined communication, predictable workflows, and consistent delivery, Hg is prepared to manage MoDOT LPA bridge projects from preliminary alternatives through final design, permitting, and letting.

## **AVAILABILITY AND ACCESSIBILITY**

With over 60 percent of Hg staff located in Missouri, our team is readily accessible and available whenever needed. The key staff assigned to this contract are fully committed to providing prompt, attentive responses and will seamlessly collaborate for any task order. Our team has a strong history of working together on similar projects, supported by established communication and quality control processes that ensures efficient coordination and high quality work from project initiation through completion.

Staff are strategically located throughout the state for field and site visits, as well as coordination with local and state agencies, and additional resources can be quickly mobilized as needed, guaranteeing timely delivery and high-quality service.

## Qualifications of Personnel



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**Justin Davis, PE - Contract/Task Manager**

**Years of Experience: 23**

Justin is a senior structural project manager experienced in delivering bridge replacements and rehabilitations for state DOTs. His work includes structural design, plan development, detailing, cost comparisons, hydraulic coordination, and staged construction solutions. He has managed dozens of bridge assignments requiring strong technical judgment, disciplined QA/QC, and close coordination with roadway, geotechnical, hydraulic, and construction partners. Justin's experience spans rural bridge replacements, grade separations, prestressed and steel girder bridges, and rehabilitation solutions such as deck replacements, barrier upgrades, and superstructure improvements.



**Terry Hood, PE - Task Manager, Years of Experience: 35.** Terry is a senior bridge engineer with extensive experience delivering rural bridge replacements and small-span structures for state DOTs. His work includes structural design, plan development, detailing, and coordination of hydraulic and geotechnical inputs.

He applies practical judgment to balance structure type, scour, staging, and cost. Terry's familiarity with district expectations supports efficient reviews, disciplined communication, and reliable delivery for bridge design needs within on-call programs.



**Tom Westerman, PE - Task Manager, Years of Experience: 42.**

Tom is a senior structural engineer experienced in designing, inspecting, and managing highway and rail structures. His work includes interchanges, culverts, retaining walls, water crossings, and movable bridges. He develops complete plan sets supported by hydraulic and geotechnical input, emphasizing constructability and consistency.

Tom's long-standing DOT experience strengthens coordination with districts, supports early issue identification, and ensures structural solutions meet MoDOT requirements.



**Tarif Kabir, PE - Task Manager, Years of Experience: 6.** Tarif specializes in bridge and wall design, PS&E development, and construction-phase support for DOT projects. His work includes prestressed concrete structures, complex substructures, retaining walls, rehabilitation evaluations, and field investigations. He prepares detailed plans that integrate hydraulic considerations, geotechnical recommendations, and staging requirements.

Tarif's analytical skills, precision, and responsiveness contribute to efficient coordination, reliable plan production, and high-quality bridge design solutions.



**Sang Kang, PE - Bridge Design Engineer, Years of Experience: 7.**

Sang is a bridge engineer experienced in structural design, load rating, finite-element modeling, and construction engineering. He designs prestressed and reinforced concrete structures, steel girder bridges, and retaining walls. His modeling and analysis support staging evaluations, rehabilitation

decisions, and accurate plan development. Sang's technical precision and consistency align with MoDOT expectations and contribute to well-coordinated, constructible structural solutions for bridge replacements and rehabilitations.



**Stephen Fussnecker, PE - Bridge Design Engineer, Years of Experience: 23.**

Stephen is a senior bridge engineer skilled in structural design, analysis, inspection, and load rating. He produces bridge plans, repair details, and evaluation reports that support rehabilitation and replacement decisions. His experience includes statewide load ratings, emergency

assessments, and technical recommendations that guide structural priorities. Stephen's disciplined approach to documentation, modeling, and coordination ensures clear, consistent plan development aligned with MoDOT requirements.



**Brian Wrisinger - Bridge Design Technician, Years of Experience: 30.**

Brian is a bridge and civil design technician with experience producing roadway and structural plan sheets, drainage details, traffic control layouts, and CADD models. He supports engineers by developing accurate, constructible plan components incorporating staging, detailing, and hydraulic considerations.

Brian's practical design insight strengthens multidisciplinary coordination and ensures reliable plan production for bridge replacements and rehabilitations.

Past Performance



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**Fixing Access to Rural Missouri (FARM) Bridge Design-Build, Northwest & Northeast MO (MoDOT).** This statewide design-build initiative replaced aging, weight-restricted rural bridges that limited community access, farm-to-market movement, and emergency response. By bundling similar structures into one contract, MoDOT accelerated delivery, captured economies of scale, and standardized efficient SDCL steel bridge solutions to shorten construction time and reduce maintenance. Supported by federal funding, the program streamlined permitting and construction sequencing across northern Missouri, restoring mobility and improving safety while providing a cost-effective model for modernizing rural infrastructure. As a key design partner, Hg served as a primary bridge designer and delivered eight replacement structures across northwest and northeast Missouri. Hg designed seven three-span steel wide flange beam bridges and one single-span prestressed NU girder bridge, and completed AASHTOWare load ratings for all eight. **Key staff:** *Terry Hood | Tom Westerman*



**Business Loop 44 over I-44 in Rolla, Phelps County, MO (MoDOT).** This project repaired and replaced the bridge deck and related structural elements to extend the bridge's service life. Delivered under an on-call contract, the work included repairs to a voided slab bridge, installation of new approach slabs, and new tapered barriers at the bridge ends. Traffic was maintained in stages in one direction while the opposite direction was detoured via nearby I-44 exits and was coordinated with other concurrent construction projects. The effort formed part of MoDOT's multi-bridge rehabilitation program to address deteriorated surfaces and ensure safe, reliable travel over I-44. **Key staff:** *Justin Davis | Eric Reinkemeyer | Brian Wrisinger*



**Route AA Bridge Replacement over South Fork Turkey Creek, Cedar County, MO (MoDOT).** Hg served as the prime consultant for MoDOT in this rural bridge replacement near Stockton. The scope included full bridge and roadway design, supported by a profile grade raise to satisfy hydraulic criteria. Based on rigorous hydraulic modeling and cost-effectiveness, Hg designed a 30-ft / 45-ft / 30-ft prestressed concrete spread box beam bridge with a 24-ft

roadway width, along with updated barrier walls, guardrail, and permanent striping. In addition to structural and roadway design, Hg prepared the project's special provisions, detailed cost estimates, and a work-day study to optimize construction delivery. The team coordinated closely with MoDOT to align schedule and constructability to ensure smooth execution. **Key staff:** *Terry Hood*

**Route AA over Johnson Creek, Lafayette County, MO (MoDOT).** In September 2021, MoDOT selected Hg as an on-call consultant to provide preliminary and final design services for replacing the existing single-span Route AA bridge over Johnson Creek in Lafayette County. Hg performed a two-dimensional HEC-RAS hydraulic analysis to size an economical replacement, which resulted in a double 12-foot by 8-foot reinforced concrete box culvert. Preliminary and final construction documents were delivered in October 2022. **Key staff:** *Terry Hood | Tom Westerman*

**I-55 Over McNutt Street in Herculaneum Bridge Replacement, Jefferson County, MO (MoDOT).** The I-55 Over McNutt Street Bridge replacement served as part of MoDOT's broader I-55 corridor improvements in Jefferson County. The project replaced the aging structure with a two-span, prestressed spread box-beam bridge featuring end-bent pile caps and a cast-in-place pile intermediate bent. Work also reconstructed the McNutt Street underpass and approaches and updated the interchange to modern standards. Construction was fully staged to maintain I-55 traffic while existing spans were removed and rebuilt, improving long-term safety, capacity, and reliability. **Key staff:** *Justin Davis | Brian Wrisinger | Tom Westerman*



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Building Relationships  
& Engineering Solutions  
for Communities

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# Building a Legacy of Growth & Innovation

## OUR VISION HONORS:

### People

At Hg Consult, people come first. We empower all to be their very best in an inclusive, flexible space to achieve their personal and professional goals.

### Partners

We focus on what's most important: relationships and value through quality services.

### Places

We support, engage, and provide solutions that benefit our communities.

## Our Services

Our commitment to customized service ensures that each project receives the attention it deserves – from concept through execution – fostering successful outcomes that benefit our clients and the communities they serve. By integrating cutting-edge technology and sustainable practices, we help clients achieve their goals efficiently and responsibly.



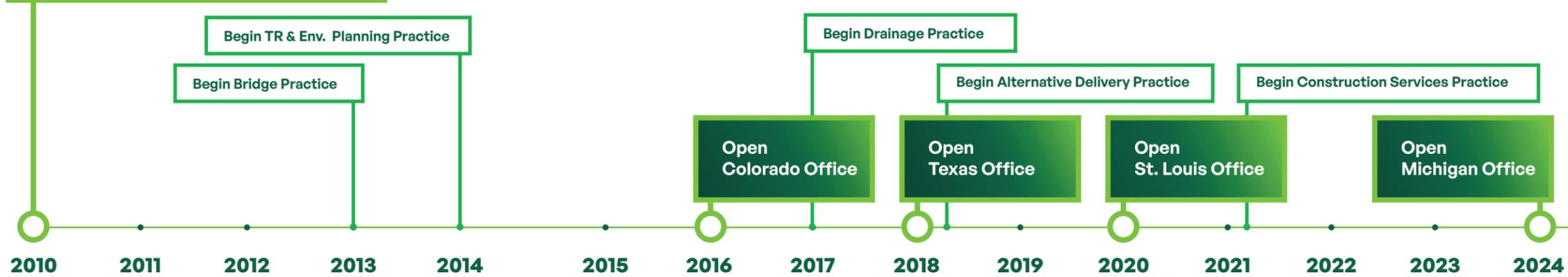
KDOT, 69 Express Design Build

### Roadway & Traffic Design

Originally founded as a roadway design firm, HG Consult brings deep expertise in municipal and state highway projects. We provide tailored, scalable solutions that prioritize safety, efficiency, and long-term performance.

- + Intersection and interchange design
- + Roadway and pavement design
- + Traffic safety & operations
- + Traffic signal optimization and design
- + Maintenance of traffic plans
- + Signing and striping design

## Hg Consult Created in Kansas City



### Transportation Planning & Environmental

We combine strategic planning with environmental insight to help clients make informed, sustainable decisions. Our team delivers practical, compliance-ready strategies that support community growth and infrastructure resilience.

- + Planning & Environmental Linkage (PEL) Studies
- + Environmental Impact Statements (EIS) & Assessments (EA)
- + Categorical Exclusions (CE) and permitting
- + Phase I/II environmental site assessments
- + Highway corridor studies
- + Statewide master plans
- + Freight & multimodal plans



2024 ACEC-MO Grand Award Winner

MoDOT, I-70 SIU 4



MoDOT, Buck O'Neil Design Build

### Bridges & Structures

From complex river crossings to pedestrian walkways, we design safe, innovative, and durable structures that meet the specific challenges of each project.

- + Complex, long-span river crossings
- + Horizontally curved plate girder bridges
- + Reinforced concrete haunched slab bridges
- + Prestressed and welded plate girder bridges
- + Railroad structures
- + Pedestrian bridges
- + Cast-in-place, drilled shaft, and MSE retaining walls
- + Bridge rehabilitation
- + Bridge inspections

### Water Services

We offer comprehensive water infrastructure solutions—including stormwater management, hydrology, flood control, and utility coordination—designed to improve system performance and sustainability.

- + Stormwater management
- + Hydraulics and hydrology
- + Overflow control and combined sewer improvements
- + Erosion control
- + Water distribution systems
- + Floodplain management
- + Waterline design
- + Utility coordination and permitting



Unified Government of Wyandotte Ditching Program Discovery & Establishment



City Kansas City Missouri Parks and Recreation Department, Red Bridge Road Complete Streets Holmes to Wornall

## Construction Services

Our experienced CEI team provides end-to-end construction support, including management, inspection, materials testing, and documentation, ensuring smooth execution from start to finish.

- + Construction management
- + Materials testing
- + Pavement resurfacing
- + Contract administration
- + Resident engineer/on-site project management
- + Construction observation
- + Nuclear density gauge
- + Video documentation (drone imagery)
- + Google apps (for document control and management)



CDOT, CO 7 Corridor Program Management, Design, and Environmental Services

## Transit & Multimodal

We help shape vibrant communities through forward-thinking multimodal design. Our work supports safe, accessible, and efficient transit systems that promote connectivity and active lifestyles.

- + Comprehensive transit planning and design
- + Multimodal corridor studies
- + Pedestrian and bicycle infrastructure design
- + Transit-oriented development (TOD) planning
- + Station design and accessibility improvements
- + Integration of emerging mobility solutions (e.g., microtransit, shared mobility)
- + Data-driven ridership analysis and forecasting

## Alternative Delivery & Program Management

HG Consult supports early collaboration through proven alternative delivery methods. By integrating design and construction, we streamline timelines, manage risks, and enhance project outcomes.

- + Program and project management
- + Risk management
- + Contract and specification development
- + Procurement administration and development (which includes developing procedures and training)
- + Financial feasibility
- + Engineering oversight
- + Construction management & support
- + Owner's engineer



TxDOT, Alternative Delivery Division Program Management

## Private Development

HG Consult partners with developers to deliver integrated site solutions across a range of project types. Our designs align seamlessly with your vision, from initial layout to final permitting.

- + Preliminary and final site layouts
- + Grading plans
- + Storm drainage systems
- + Utility design
- + Landscape design
- + Traffic impact studies
- + Parking lot design
- + Structural design
- + Environmental permitting



423 E. Young Street LLC, Residences at Bryson Lake