



**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:

Hg Consult, Inc.

Firm Contact Name:

James Ritter, PE, RSP1

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7733 N. Wallace Ave

Kansas City, MO 64158

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 - Traffic Engineering & TEAP

Missouri Department of Transportation (MoDOT) Local Program

December 12, 2025



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Inc

Point of Contact: James Ritter, PE, RSP1
Contract Manager | Hg Consult Inc.
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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:

Improving safety and operational performance across Missouri's roadway system requires a traffic engineering partner who understands MoDOT's priorities and applies data-driven methods to solve corridor and intersection challenges. Hg Consult, Inc. (Hg) brings strong capability in predictive analytics, multimodal operations, and extensive knowledge of the Safe Systems Approach, making our team well suited for this on-call contract.

Work under this program will include assessing corridor operations, intersection performance, speed and safety patterns, signing and marking needs, lighting, multimodal accommodations, and Maintenance of Traffic (MOT) strategies. Hg brings direct experience from the South Creek Greenway from Sunset to Glenstone in Springfield, and the I-29 and I-35 Bedford Viaduct. These efforts demonstrate our ability to integrate predictive safety tools, operational modeling, and field-informed judgment to produce reliable, implementable improvements.

Key Hg strengths include:

Safety embedded in everything we do. Hg incorporates safety considerations at every level of analysis, including crash pattern evaluation, sight distance review, speed studies, conflict point assessment, and pedestrian and bicyclist risk evaluation. Our team uses systemic and location-specific methods to identify the most effective improvements and ensure recommendations meaningfully reduce serious injuries and fatalities.

Strong history in predictive analytics. Our traffic engineers regularly use HCS, Synchro, SIDRA, VISSIM, and MoDOT-approved safety tools to model operations, evaluate performance, test alternatives, and quantify

safety outcomes. Predictive and systemic analysis informs each recommendation, ensuring that proposed solutions are supported by data and aligned with MoDOT's safety priorities.

Strong traffic expertise and deep understanding of the Missouri transportation network. Hg's staff brings extensive experience working with MoDOT districts and local partners across the state. Our engineers understand Missouri's urban and rural traffic patterns, multimodal needs, freight movements, and access management issues. Several team members are former MoDOT staff, bringing firsthand knowledge of agency expectations, documentation procedures, and communication practices.

Deep expertise in MOT. Our team develops clear and constructible MOT strategies that maintain mobility and protect workers throughout construction. This

includes temporary traffic control layouts, detour planning, signal adjustments, staging strategies, and maintaining safe pedestrian and bicycle access. We focus on minimizing delays while maintaining operational continuity during complex improvements.

Hg is ready to support MoDOT with a responsive, analytical traffic engineering team committed to delivering accurate, timely, and well-coordinated solutions across Missouri.

Respectfully submitted,

James Ritter, PE, RSP1
Senior Project Manager - Transportation Services
Hg Consult, Inc.

FAMILIARITY/CAPABILITY

Hg is well versed in MoDOT processes, design criteria, and documentation requirements for corridor and intersection safety and operational improvements. Our engineers apply MoDOT standards, TEAP guidance, and district coordination practices to deliver studies efficiently and in full compliance with state and federal expectations.

We understand the operational, safety, geometric, signing, lighting, and MOT factors essential to effective traffic engineering. Our work with MoDOT and municipal partners shows our ability to deliver clear, data-driven recommendations and practical solutions that enhance safety and mobility across Missouri.

AVAILABILITY

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 committed to providing prompt, attentive responses and will seamlessly collaborate on any task order. Our team has a strong history of working together on similar projects, supported by established communication and QA/QC processes that ensure efficient coordination and high-quality work.

Staff are strategically located across the state for field and site visits and coordination with local and state agencies. Additional resources can be mobilized quickly as needed, ensuring timely delivery and dependable service.

Qualifications of Personnel



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James Ritter, PE, RSP1 - Contract Manager and QA/QC

Years of Experience: 19

James is a senior transportation project manager and leader of Hg's transportation practice, delivering complex operational, multimodal, and corridor design and safety studies across Missouri and the Midwest. He specializes in arterial and intersection operations, multimodal planning, and data-driven safety analysis, integrating sight-distance review, signing and marking evaluation, lighting needs, and user behavior into practical, implementable recommendations. His work spans systemic and predictive safety evaluation, speed studies, crash analysis, and operational modeling, supporting TEAP-aligned assessments at both corridor and intersection scales. As a recognized traffic safety expert, James provides technical leadership and QA/QC oversight, ensuring that methodologies, analysis, and documentation meet MoDOT expectations and withstand public and agency review. He is experienced in developing targeted countermeasures, evaluating multimodal needs, and shaping improvements that address both safety and operational performance.

Eric Reinkemeyer, PE, PTOE - Task Manager

Years of Experience: 23. Eric is a transportation engineer with extensive experience in traffic operations and safety evaluations along urban and suburban corridors. He conducts sight-distance reviews, speed assessments, signal warrant checks, and signing and marking updates to support safer, more efficient intersections. His work also includes lighting evaluations, pedestrian and bicycle route analysis, and preparing traffic control plans. Eric brings practical problem-solving to deliver traffic improvements that function reliably in the field.

Nathan Hladky, PE, PTOE, ENV SP - Task Manager

Years of Experience: 20. Nathan is a multimodal and traffic operations engineer experienced in TEAP corridor studies, intersection operational analyses, traffic impact assessments, and multimodal planning. He develops signal timing strategies, evaluates safety patterns, reviews speed and access management issues, and integrates community context into recommended improvements. Nathan's work emphasizes ADA considerations, user mobility, and operational performance across urban and rural networks. He brings a data-driven, results-oriented approach that helps agencies identify enhancements that improve safety, flow, and long-term corridor performance.

Angela Nelson, PE - Task Manager

Years of Experience: 11. Angela is a roadway and traffic engineer with experience supporting corridor safety evaluations and operational reviews for local and state agencies. She conducts signal and stop-control assessments, pedestrian crossing and ADA accessibility reviews, signing and marking updates, and speed and operational analyses. Angela develops traffic control concepts, lighting recommendations, and multimodal enhancements to address localized safety and mobility issues. Her work blends technical analysis with practical design judgment to deliver clear, actionable recommendations for communities.

Melissa Rettig, PE, RSP1 - Years of Experience: 10

Melissa has dedicated her career to integrating safety into the early stages of project development, creating more connected and resilient corridors. Relying on data-driven highway safety analysis, she integrates conceptual engineering, environmental documentation, and alternatives development to support multimodal solutions. Her expertise spans predictive safety analysis, crash evaluation, traffic studies, and roadway design. Melissa delivers planning and design outcomes that enhance safe mobility for all users.

Debbie Page, PE - Project Engineer

Years of Experience: 24. Debbie supports traffic engineering efforts through geometric evaluations, signing and marking plan development, and layout refinements that improve visibility, ADA compliance, and operational flow. She reviews design constraints, drainage and grading implications, and intersection geometry to support safe, context-appropriate traffic solutions. Debbie prepares traffic control and signing sheets and integrates TEAP recommendations into constructible design packages for municipal and MoDOT partners.

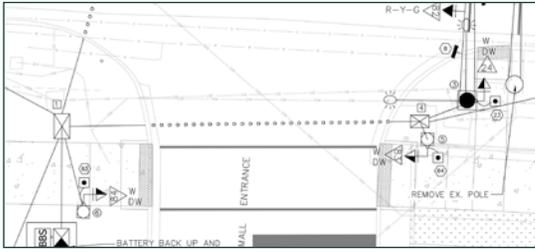
Andrya "Andy" Haase, EIT - Project Engineer

Yrs of Experience: 10. Andy supports traffic engineering projects through utility coordination, field verification, and identifying conflicts that affect signal, signing, or lighting improvements. She assists with data collection, plan review, and integration of traffic design updates into project documents. Andy's knowledge of permitting, utility relocation, and field coordination ensures proposed traffic enhancements are feasible, well-coordinated, and implementable without unexpected conflicts or delays.



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Past Performance



South Creek Greenway Trail, Sunset to Glenstone, MO (City of Springfield). Hg provided engineering services under MoDOT's LPA Program to extend the South Creek Greenway Trail and close key gaps in Springfield's multimodal network. The project added a 10-foot-wide multi-use path along Sunset Street from Fremont Avenue to Glenstone Avenue, improving connections between Meador Park and Battlefield Mall. Work included ADA-compliant facilities, curb ramps, and signal modifications for trail crossings, as well as conduit for fiber-optic interconnect to support the City's ITS system. **Key staff:** *Nathan Hladky | Eric Reinkemeyer | Angela Nelson | Andy Haase*



KC Streetcar – NorthRail Study, North Kansas City, MO (Kansas City Streetcar Authority). As part of our support for the entire KC Streetcar program, Hg has provided multiple services to each corridor segment over the past several years. For the NorthRail Extension Alternatives Analysis, the team developed a detailed VISSIM traffic simulation to evaluate how extending the line would affect operations along the high-volume Burlington/Route 9 corridor. In the current NorthRail Environmental Study, Hg is delivering traffic operations expertise including Synchro analysis, travel time evaluations, and conflict diagrams to compare alternatives for crossing the Missouri River and connecting to North Kansas City. These analyses are helping the project team identify a preferred alignment and understand corridor-wide mobility impacts. **Key staff:** *Nathan Hladky | Eric Reinkemeyer | Angela Nelson*

Route 96 Signal Design, Carthage, MO (MoDOT). Hg prepared the Traffic Safety and Operations Report for Route 96 from the I-49 interchange to Route 571 (Garrison Avenue). The team analyzed existing crash types and patterns to identify appropriate countermeasures at each signalized intersection and evaluated corridor-level operational improvements. Using turning-movement counts and traffic projections, Hg assessed intersection operations and identified necessary geometric adjustments and signal phasing enhancements. Hg is currently responsible for the full redesign of traffic signals with pedestrian accommodations at five intersections to be incorporated with the overall corridor improvements including pavement replacement, sidewalk and curb ramp improvements into the Final PS&E submittal. **Key staff:** *Eric Reinkemeyer | Angela Nelson*

Rte HH/I-29 Interchange Improvements, Platte County, MO (MoDOT). Located in Platte County, Missouri, this project enhances safety, traffic flow, and accessibility at the interchange of Route HH and Interstate 29 near Platte City. Key improvements include a roundabout at the southbound exit ramp, ramp widening, turn-radius modifications, shoulder and guardrail upgrades, drainage enhancements, and slope stabilization to improve safety and reliability. Hg provided critical support, including maintenance-of-traffic planning, AJR documentation, drainage design, and traffic modeling to ensure the improvements function efficiently and safely for all motorists. **Key staff:** *Eric Reinkemeyer | Melissa Rettig | Angela Nelson*

I-44 Widening/Roadway Improvements, Springfield to Strafford, MO (MoDOT). Hg served as a subconsultant on this 20-mile I-44 conceptual, preliminary, and final design effort. The team led Highway Capacity Software analysis from Route 360 to Route 125, evaluating widening and auxiliary lane options across 10 interchanges to address existing and future operations. Hg also completed the iSATe predictive safety analysis for the western corridor segment. Additional responsibilities included developing preliminary and final MOT plans for the widening between Route 13 and U.S. 65 where Hg also supported final roadway design tasks to maintain two lanes during construction and ensure safe, efficient staging. **Key staff:** *Nathan Hladky | Eric Reinkemeyer*

I-29/I-35 Bedford Viaduct Bridge Improvements, Kansas City, MO (MoDOT). This project involves phased construction for the I-29/I-35 bridges over Bedford and Guinotte avenues, requiring comprehensive traffic control planning to maintain safety and operations. Hg will develop Final Design traffic control plans, including off-peak lane closures for L0788 and northbound L0789, and phased work with temporary barriers for southbound L0789. Ramp closures and signed detours will be needed due to limited merging distances, supported by temporary signal modifications. Deliverables include traffic control and staged construction plans, detour signing, cost estimates, and a Transportation Management Plan. **Key staff:** *Nathan Hladky | Eric Reinkemeyer*



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An aerial photograph of a city, likely St. Louis, showing a river with several bridges, including a prominent green bridge. The city buildings and green spaces are visible under a cloudy sky.

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.



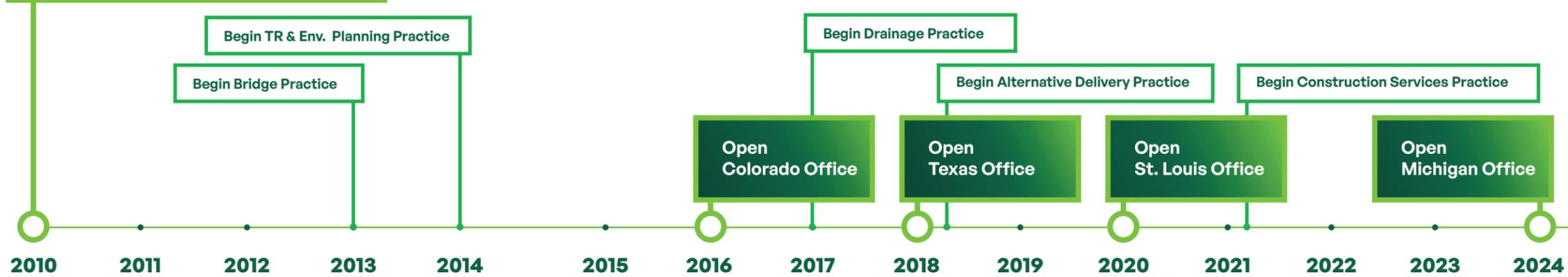
KDOT, 69 Express Design Build

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



By the Numbers

100
Employees

45
PEs & Licensed Staff

10
States

100+
Clients

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



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



2024 ACEC-MO Grand Award Winner

MoDOT, I-70 SIU 4



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