



**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:

HR Green, Inc.

Firm Contact Name:

Dan Shane

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St. Louis, MO 63141

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**

General Experience of the Firm

Firm-wide experience, innovative traffic engineering solutions, exceptionally responsive staff and the timely delivery of previous projects are just a few of the reasons HR Green, Inc. (HR Green) has become a preferred provider of infrastructure-related services to Missouri Local Public Agencies. HR Green has nine dedicated traffic engineers, three with PTOE certification. Our Missouri office contains a variety of licensed roadway, traffic, drainage, and bridge engineers supported by a creative and eager group of staff engineers, CAD technicians, and construction personnel, all experienced on local municipal and county project work. Dan Shane, Regional Traffic Lead, will be your point of contact for coordinating resulting assignments. Assisting him to successful completion will be the staff identified herein, which are familiar to numerous local agencies through previously completed traffic engineering projects. The team is exceptionally qualified and brings a strong desire to provide you professional traffic engineering and TEAP services.

Past Performance

At HR Green, we encourage our traffic engineers to stretch their minds to identify innovative solutions, with a focus on safety and mobility. The following projects represent our traffic engineering experience throughout the Midwest.

PM = Project Manager
 TE = Traffic Engineer
 PE = Project Engineer

Federally or State Funded Projects:

MO Route 340 Traffic Signals (J6S3234 – On-Call Contract) – St. Louis District – Design of five traffic signal replacements at the I-64 EB and WB ramps, New Ballas Road, Craig Road, and Mosely Road *Key Staff:* D. Shane (PM), A. Davis (PE)

MO Route 367 / MO Route AC Signal Optimization (J6S3120) – St. Louis District – Traffic data collection and signal optimization of 26 intersections, including before and post after travel time analysis and implementation through TransSuite *Key Staff:* D. Shane (PM)

MO Route 231 Concept Study (J6S3275 – On-Call Contract) – St. Louis District – Study of Route 231 between Telegraph Road and Ripa Avenue to modify existing 4-lane section to a 3-lane section with two-way center turn lane *Key Staff:* D. Shane (TE)

MO Route 364 & Route 141 Interchange Study (J6S3188 – On-Call Contract) – St. Louis District – Study of congested Rt. 364 and Rt. 141 interchange to improve traffic flow during

peak traffic periods, including detail traffic analysis, VISSIM modeling of innovative concepts such as a displaced left turn as the preferred alternative, and Conceptual Design Plans *Key Staff:* D. Shane (PM), T. Yelton (TE)

US 61 & MO Route 47 Interchange Study (J2P3043) – Northeast District – Study of interchange in Troy, MO to alleviate peak period traffic congestion, including detailed traffic analysis, VISSIM modeling of innovative concepts, and Conceptual Design Plans of a DDI interchange *Key Staff:* D. Shane (PM), T. Yelton (TE)

I-55 Safety and Operational Analysis (J6I3389) – St. Louis District – Operational analysis of impacts of the addition of a southbound auxiliary lane between Route A and US-67 in Jefferson County. Project included a safety analysis using IHSDM, which was fully-vetted through FHWA *Key Staff:* D. Shane (TE), T. Yelton (PE)

Tower Grove Park Access Enhancements (City of St. Louis) – Operational and safety analysis of the impacts of a road diet along Kingshighway Blvd. at the east entrance to Tower Grove Park. The removal of lanes were desired to better allow for the placement of a pedestrian-activated signalized crossing *Key Staff:* D. Shane (TE), T. Yelton (PE)

I-44 & MO Route 141 Interchange Study (J6I2423) – St. Louis District – Provided Design-Build support services for MoDOT's St. Louis District, including detailed VISSIM traffic modeling of southbound to eastbound fly-over ramp and thru-turn at Vance Road *Key Staff:* D. Shane (TE)

Muegge Road/Route 94/Route 364 Interchange Study and Design (J6P3418) – St. Louis District – Traffic engineering and safety analysis of a new interchange at a complex intersection of three major highways in a dense urban area in St. Charles County. Analysis included VISSIM modeling of various interchange configurations, including the preferred DDI *Key Staff:* D. Shane (TE)

Route 95 TS&O (SE0157) – Southeast District: Traffic analysis included access management and VISSIM modeling of a one-mile corridor to improve traffic flow and safety. VISSIM model reviewed conversion of traffic signals to roundabouts at major intersection *Key Staff:* D. Shane (PM)



Fairgrounds Road and Friedens Road Intersection Improvements (City of St. Charles, MO) - Traffic engineering study to review signalization or roundabout intersection control, including 4-lane to 3-lane reduction of Friedens Road *Key Staff:* D. Shane (PM), M. Abuawad (TE)

US Highway 63 and US Highway 160 Corridor Study (SE0157 – On-Call Contract) – Southeast District – Traffic engineering study of two intersecting corridors in West Plains, MO. Analysis included traffic projections, safety review, and alternatives analysis to review access management along a corridor with multiple signalized intersections *Key Staff:* D. Shane (PM)

Orf Road TEAP Study (City of Lake Saint Louis, MO) – Traffic engineering study the TEAP program to review and analyze traffic conditions along the Orf Road Corridor, including lane configurations at major intersections *Key Staff:* D. Shane (PM), M. Abuawad (TE)

I-44 at Broadway Study and Design (J6S3272) – St. Louis District – A bridge replacement project in downtown St. Louis involved a traffic engineering study to review the lane geometry and intersection control at Broadway Street and the I-44 Express-lanes Ramp. Project also included a unique traffic signal design with foundation tied to existing bridge pier *Key Staff:* D. Shane (PM)

Route N and Route Z Traffic Signal Design (St. Charles County, MO) – Intersection design study to realign geometry, add turn lanes, add traffic signal control, and add intersection lighting *Key Staff:* D. Shane (PE)

Central School Road and St. Peters Howell Road Intersection Study and Design (St. Charles County, MO) – Intersection design study to review impacts near a school. Recommended improvements consisted of dual turn lanes and additional through lanes to add needed capacity *Key Staff:* D. Shane (PE)

Locally Funded Projects:

MO Route 79 Corridor Study (City of St. Paul, MO) – Study of Route 79 in western St. Charles County to address capacity and safety concerns along a high-speed two-lane corridor. Tasks included IHSDM safety analysis *Key Staff:* D. Shane (PM)

Town Center Traffic Impact Study (City of Wildwood, MO) – Comprehensive traffic study of expected impacts of full build-out potential of mixed-use development bound by Route 100, Route 109, and Old Manchester Road in Wildwood, MO *Key Staff:* D. Shane (PM)

MO Route 109 & Route 100 Corridor Study (City of Wildwood, MO) – Study of Route 109 between Manchester Road and Route 100 WB ramps, including analysis of multiple roundabouts to address traffic congestion concerns *Key Staff:* D. Shane (TE), T. Yelton (TE)

Olive Blvd. and Graeser Road Traffic Impact Study (City of Creve Coeur, MO) – Traffic study was completed to estimate the impacts of a mixed-use development. Analysis included trip generation, growth projections, intersection capacity, and parking generation *Key Staff:* D. Shane (PM), M. Abuawad (TE)

Missouri Route 109 Corridor Study (City of Wildwood, MO) – Traffic engineering study of Route 109 between Clayton Road and Route BA to investigate roundabout control at Route BA and an immediate improvement, and various corridor alternatives, including hybrid school pedestrian control, to improve traffic flow along the entire corridor *Key Staff:* D. Shane (PM)

Route K and Route N Intersection Improvements – City of O’Fallon, MO – Intersection improvements included lane widening to provide dual left turn lanes on Route N, new sidewalk connections, and a new traffic signal with street lighting. This Cost Share project between the City and MoDOT was designed to correct an undesirable kink in the horizontal alignment through the intersection *Key Staff:* D. Shane (PM)

Familiarity/Capability

Through the development of the various projects previously identified, we have gained the necessary knowledge and ability to function effectively as an extension of your staff, which is particularly important with on-call traffic engineering assignments where the schedule is frequently critical and there is not time for a learning curve.

HR Green has nine dedicated traffic engineers, three with PTOE certification, used to distinguish those with a thorough understanding of traffic engineering.

Our traffic engineering staff is extremely well versed in all aspects of traffic design and studies, including:

- Intersection Capacity Studies using Synchro/Sim Traffic and SIDRA
- Access Justification Reports (AJR)
- Detailed Corridor/Interchange Modeling using VISSIM, IHSDM and iSATe Safety Analysis
- Multi-modal Studies
- Corridor and Access Management Studies
- Signal Warrants Studies
- Traffic Signal Design
- Signal Optimization and Timing Plans
- Roundabout Studies and Design
- Traffic Impact Analysis
- Traffic Safety and Operations (TS&O)

Our traffic engineering staff is extremely well versed in all aspects of traffic design and studies, including intersection studies using SYNCHRO /SimTraffic, access justification reports (AJR), detailed interchange modeling using VISSIM, Highway Safety Manual (HSM) safety analysis, corridor and access management studies, traffic signal design, signal optimization, roundabout studies and design, and traffic impact analysis. Our experienced PTOE's have delivered innovative solutions to complex intersection traffic flow and highway capacity problems throughout the country. Furthermore, our expertise, depth, and location of resources allows us to interact with staff in other regions to understand new traffic engineering techniques and philosophies to share with each of our local offices.

Qualifications of Personnel



Dan Shane, PE, PTOE will be your Project Manager. Dan is professionally registered in Missouri, Illinois, Colorado, Kansas, and Texas, and his 33 years of experience includes extensive design and project management experience on transportation related projects throughout the County. Dan's transportation planning, design, and traffic engineering experience includes corridor studies, interchange studies, traffic impact studies, traffic signal design, signal coordination and optimization, highway/roadway design, roundabout analysis/design, street lighting design, and noise abatement studies.



Yogesh Mantri, PE, PTOE, RSP1, has 33+ years of experience in traffic signal systems and ITS infrastructure. He helped launch Maricopa County DOT's nationally recognized ITS program and has delivered 130+ signals, 250+ miles of ITS infrastructure, and multi-million-dollar ATSPM and fiber optic projects across Arizona.



Ted Yelton, PE, PTOE, RSP1, has 13+ years of experience specializing in advanced VISSIM modeling and traffic simulation. As HR Green's traffic modeling lead, he delivers complex studies for DOTs nationwide and holds specialized PTV VISSIM training in advanced applications, signal control, and transit operations.



Assisting with modeling, analysis and report preparation and writing will be **Mohammad Abuaward, EIT**. He has three years of traffic engineering and roadway design experience, in Missouri, Illinois, Iowa, Texas, California, and Minnesota. Mohammad's specialty is developing complex traffic models to evaluate existing conditions and improvement concepts.

He is proficient in SYNCHRO/SimTraffic, HCS, ArcGIS, SIDRA, GEOPAK, and the Highway Safety Manual tools. In addition to his previous internship with MoDOT and time with HR Green, his traffic engineering experience has developed immensely with a thorough understanding of traffic flow in complex situations.

Yan Gluzman spent 33 years in MoDOT's St. Louis District, with his last role being Area Traffic Engineer for three geographic areas of the STL Metro District. His responsibilities included traffic signal operations, safety needs, external and internal traffic concerns, traffic studies, permit and workzones, maintenance of traffic, and signing and striping plans.

Accessibility

The intent of our team is to approach each project with the diverse and talented staff identified herein. While not all of these professionals are located in Missouri, their locations do not preclude them from working effectively on these types of projects. Our previous clients will attest that we have consistently shown the ability to successfully manage projects throughout the State with cities two plus hours away or across state-lines unparalleled responsiveness and a level of service that they expect from their consultants.

HR Green's commitment to responsiveness is built on our philosophy of being available and accessible to our clients when they need us most. Our responsiveness encompasses effective communication to coordinate project issues, open collaboration to resolve complex challenges, proactive planning to address the unexpected, strategic staffing to put the right people in the right role, and inclusive participation to solicit input from vested stakeholders.

Why Select HR Green?

This Letter of Interest demonstrates that HR Green has the technical competence and the experience to perform traffic engineering services for a variety of projects meeting the requirements of this solicitation. Our team of traffic engineers, roadway designers, and street lighting staff has a multitude of experience on similar projects for various local agencies, and a proven record of accomplishment in meeting or exceeding expectations. HR Green has the ability to deliver complex traffic engineering solutions on a variety of projects with varying scopes and sizes. If given the chance, we know that we can prove to you that our Team is the right team for your upcoming on-call traffic engineering needs!



HRGreen®

Building Communities.
Improving Lives.

Building Lasting Partnerships

Founded in 1913, HR Green is proud to be one of the nation’s longest enduring engineering firms. For more than a century, we’ve partnered with public and private clients across markets and geographies to deliver comprehensive engineering, planning, and management solutions that strengthen and connect communities.

We commit to providing great client service through honesty, responsiveness, and understanding; forming partnerships with our clients and colleagues that leads to success.

Our clients benefit from the scale and resources of a national firm combined with the personalized attention of dedicated teams. Consistently ranked among ENR’s Top 500 Design Firms and recognized as a Great Place to Work, we’re committed to delivering exceptional results while fostering a culture of leadership, performance, operational excellence, collaboration, and community.



LEADERSHIP



PERFORMANCE



OPERATIONAL EXCELLENCE



COLLABORATION



COMMUNITY

HR Green offices are located throughout the United States in Arizona, California, Colorado, Florida, Iowa, Illinois, Minnesota, Missouri, South Dakota, and Texas.

Great Place To Work®

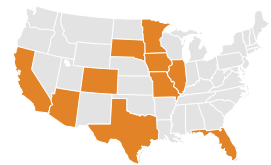
Certified

MAY 2025-MAY 2026

USA

We’re proud to be recognized as a Great Place to Work® Certified company.

10 STATES



22 OFFICES



750+ EMPLOYEES



113+

Continuous Service for 113 Years

#168

Currently ranked 168 on ENR’s Top 500 Design Firms in the United States

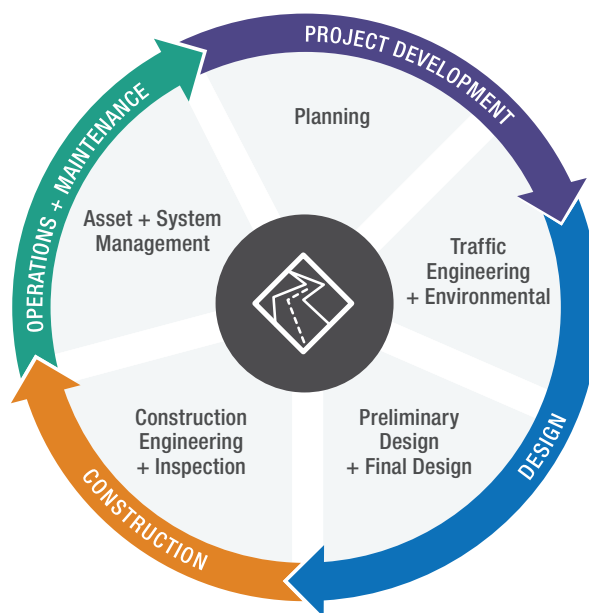


Driving Project Success

HR Green delivers transportation solutions that prioritize safety, efficiency, and long-term value. Our team understands the challenges DOTs face; funding constraints, environmental compliance, public engagement, and technical complexity in both urban corridors and evolving rural areas.

We provide full life-cycle project support, from planning and design through construction and asset management, ensuring projects are buildable, sustainable, and adaptable to future needs. Our integrated disciplines and constructability reviews reduce surprises and optimize maintenance, while leveraging innovation to meet your goals.

TRANSPORTATION PROJECT LIFE-CYCLE



HR Green's life-cycle approach delivers consistent outcomes by aligning project needs with community priorities, environmental standards, and infrastructure goals—creating solutions that work for agencies and the people they serve.

Project Development + Planning

- ▶ Access Management + Control Studies
- ▶ Complete Streets (Pedestrian, Bicyclist, Transit)
- ▶ Grant + Funding Applications
- ▶ Location Studies
- ▶ Hazard Elimination Studies
- ▶ Interchange Justification

- ▶ Reports (IJR)
- ▶ Multi-modal Corridor + Intersection Studies
- ▶ Parks + Open Space Master Planning
- ▶ Planning Environmental Linkages (PEL) Studies
- ▶ Public Engagement (Virtual +

In-Person)

- ▶ Safety Studies + Action Plans
- ▶ School Circulation + Safety Studies
- ▶ Traffic Impact Studies
- ▶ Transportation Master Plans
- ▶ Transportation Policy Evaluation + Development

Traffic Engineering + Environmental Design

- ▶ Adaptive Signal Control Technology (ASCT)
- ▶ Advanced Traveler Information Systems
- ▶ Fiber Optic Interconnect Design
- ▶ Intelligent Transportation Systems (ITS) Design
- ▶ Intersection Control
- ▶ Evaluations (ICE)
- ▶ Traffic Management Systems
- ▶ Traffic Operations + Safety
- ▶ Traffic Operations Modeling + Simulation + Forecasting
- ▶ Traffic Safety Evaluations + Road Safety Audits
- ▶ Air Quality Analysis
- ▶ Community Impact
- ▶ Assessments
- ▶ Environmental + NEPA + Funding
- ▶ Environmental Monitoring + Compliance
- ▶ Environmental Permitting Strategies
- ▶ Traffic Noise Assessment + Attenuation Studies

Preliminary Design + Final Design

- ▶ 3D Renderings + Flyovers
- ▶ Access Management Planning
- ▶ Blueways + Riverwalks
- ▶ Bridges + Structures
- ▶ Construction Staging
- ▶ Green Infrastructure
- ▶ Final Construction Documents + Specifications
- ▶ Hydraulics + Hydrology
- ▶ Innovative Geometry + Roundabouts + 3D Modeling
- ▶ Interchange Design
- ▶ Intersection Control Evaluations
- ▶ Interstate Reconstruction
- ▶ Municipal + Arterial Street Design
- ▶ Planting Design
- ▶ Preliminary Cost Estimates
- ▶ Preliminary Geometric Layout + Construction Limits
- ▶ Right-Of-Way Impact
- ▶ Assessment
- ▶ Roadway Profile + Cross Section Development
- ▶ Rural Roadway Design
- ▶ Signage + Monumentation + Wayfinding
- ▶ Streetscapes + Parkways + Sidewalks + Trails
- ▶ Urban Streetscape Design

Construction Engineering + Inspection (CEI)

- ▶ Constructability Reviews
- ▶ Construction Management + Inspection
- ▶ Construction Staking + Layout
- ▶ Contract Administration
- ▶ Documentation + Record Keeping
- ▶ Environmental Compliance
- ▶ Materials Inspection + Testing
- ▶ Pre-Construction Services
- ▶ Problem Resolution + Claims Management
- ▶ Progress Payment Review
- ▶ Resident Engineering
- ▶ Shop Drawing Review
- ▶ Stakeholder Coordination
- ▶ Traffic Control Monitoring
- ▶ Utility Coordination

Operations + Maintenance

- ▶ Bridge Inspection + Condition Assessment
- ▶ Capital Improvement Plan Development
- ▶ Detection System Maintenance + Calibration
- ▶ Emergency Vehicle Preemption System Maintenance
- ▶ Equipment Replacement Planning
- ▶ Fiber Optic Communication System Maintenance
- ▶ GIS-Based Asset Management
- ▶ Infrastructure Asset Inventory + Condition Assessment
- ▶ Life Cycle Cost Analysis + Budgeting
- ▶ Maintenance Optimization Strategies
- ▶ Pavement Management
- ▶ Preventive Maintenance Scheduling + Planning
- ▶ Signal Cabinet + Equipment Inspections

Comprehensive Solutions to Support Your Vision



Broadband

We deliver future-ready broadband with a phased approach—starting with community-driven visioning, strategic planning, and GIS-enabled design, then managing construction and providing ongoing operational support for scalable, sustainable connectivity.



Municipal Services

Our professionals help municipalities operate efficiently with flexible, scalable services—from engineering and advisory support to plan review and electronic civil plan checks. We streamline processes, enhance transparency, and deliver tailored solutions that meet each community's unique needs.



Construction Engineering

Our construction professionals are experienced with projects for municipal, county, and state clients that include bridges, roads and highways; storm and sanitary sewers; water distribution systems; water treatment facilities; wells, and storage facilities; pumps and lift stations; and wastewater facilities.



Planning

Our planning services allow clients to imagine their future. Both new and established communities must set a strategy for growth and development. Our planning professionals recognize regulatory and economic parameters while utilizing implementation tools that lead to success and practical application.



Environmental

We partner with federal and state agencies to deliver sustainable, compliant solutions that simplify environmental clearance and permitting. We provide NEPA services, stormwater, air, and wetlands permitting, along with proactive compliance strategies.



Transportation

Our teams deliver integrated transportation solutions—from local streets to complex interstate systems. We combine planning, design, and construction with innovative technologies like 3D modeling, collaborating with DOTs, toll authorities, and municipalities nationwide for seamless project delivery.



Geospatial

Land surveying, GIS mapping, data collection, or field observations are often the crucial first step to any project. HR Green's geospatial professionals have a keen eye for detail and keep your project goals front of mind while adapting as required by site conditions.



Water

From feasibility studies through construction phase services, we help clients achieve reliable, cost-effective, and innovative solutions for potable and process water, wastewater, and water resources management.



Land Development

We combine technical expertise, a passion for service, and business savvy to make your projects highly successful. Our professionals provide planning, engineering, and landscape architectural services in a single, integrated team to streamline the development process.



Scan the QR Code or follow the link below to learn more about our services.

► www.hrgreen.com/services

