

November 15, 2013

Mr. Kenny Voss, P.E. – Local Program Administrator
Missouri Department of Transportation – Central Office
105 W. Capitol Avenue
Jefferson City, Missouri 65102



**RE: Letter of Interest for Professional Services
Missouri Local Program | Structures Work Category**

Dear Mr. Voss:

General Experience of the Firm: HR Green, Inc. is a professional engineering and technical consulting firm serving clients in the public and private sectors. We are a privately held, employee-owned company, and fully committed to the success of our clients and the well-being of our employees. Celebrating 100 years in business, we enjoy a long-standing reputation for business accountability to our clients, meaning that we partner with our clients to create viable facilities and healthy enterprises. In Missouri, we have been serving the needs of local municipalities and county governments for the past ten years, and have had the good fortune to work on a wide variety of challenging, interesting, and exciting projects to better these communities as shown below.

We appreciate the opportunity to submit this letter as evidence of our desire to provide professional engineering services for structural design projects in Missouri under the Local Program on-call listing.

Diversity: HR Green recognizes the importance of providing a diverse workforce. Our corporate and St. Louis Office staffing plan is committed to meeting the Department of Labor diversity goals. Currently, the St. Louis Office is 27% Minority/Women. We welcome a variety of ethnicities, religious beliefs, customs, etc to the office, and are actively pursuing additional diverse candidates for our organization through current job openings.

Qualifications of Key Personnel:

For these types of projects, **David Maxwell, PE, SE**, is proposed as the Project Manager. David has 22 years of bridge and highway design experience. He has been with HR Green since the office opened in St. Louis over nine years ago and has successfully completed the design and project management of many local agency structural transportation projects. His expertise includes design of concrete and steel beam bridges, curved girder structures, box culverts, retaining walls, special drainage structures and traffic related structures. In addition, David has an understanding of federally funded infrastructure projects and can assist his clients through the federal aid process. Within HR Green, he is the Operations Director for the Transportation Business Line. In this role, he oversees and balances workload across the company. For these projects, David will be the primary point of contact, manage the team, and assist with design decisions for the project.

Kevin Brehm, PE, SE, will serve as the Lead Structural Engineer for these projects. Kevin has over ten years of bridge design experience and will assist David with project management duties. Since joining HR Green in 2009, Kevin has been involved with a number of bridge projects and has worked closely with David. He recently served as the Lead Structural Engineer for the design of several large highway bridges in Illinois, Iowa, and South Dakota.

Jason Murphey, EI, of HR Green will serve as a Staff Engineer for these types of projects. Jason's experience encompasses the structural aspects of transportation projects. His knowledge includes the design and preparation of structural contract documents for roadway, highway and bridge projects, including specifications and special provisions. Prior to joining HR Green, Jason served as Project Engineer and Project Manager for multiple projects in Southwest Missouri. He has the unique experience of taking projects from conception to completion performing tasks such as surveying, hydraulic analysis, permitting, structural design, plan preparation, right of way acquisition, bidding, and construction inspection. Jason provides a value added perspective in all stages of a project.

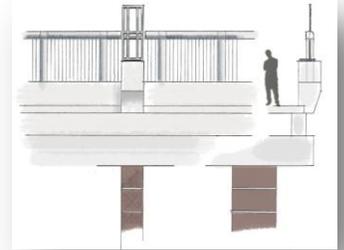
Subconsultants: While HR Green is a full-service firm, there are a variety of services that we do not locally provide. These include: surveying, geotechnical investigations, subsurface utility exploration, and others. When project needs require these services, we team with trusted local, statewide, and national partners. Many of these companies are women-owned, minority-owned, and/or veteran-owned. On a project-by-project basis, we select our teaming partners based on qualifications and locale to help us complete the project.

Past Performance: HR Green takes pride in the work we perform. Our number one goal being to serve our clients with the quality and responsiveness they deserve and expect. That being said, we encourage prospective clients to contact any of our references for their opinion of what to expect from HR Green. The projects listed below were all designed in Missouri and provide detailed information.

Chesterfield Pkwy Pedestrian Improvements and Bridge | City of Chesterfield, MO

The project included approximately 2,000-feet of sidewalk and a two-span prestressed concrete I-beam bridge over US 40/61. Because of the project's location, coordination with MoDOT, St. Louis County, and MSD was required. Custom handrails and column details were selected to enhance the visual features of the bridge. Additionally, lighting was used in the barrier to light the pathway for user safety and the decorative columns for aesthetic appeal.

[Jeff Paskiewicz](mailto:jpaskiewicz@chesterfield.mo.us) | 636.537.4762 | jpaskiewicz@chesterfield.mo.us



Old Manchester Road Bridge #319 | City of Wildwood, MO

As part of HR Green's conceptual review of this project, it was determined that the existing abutment retaining walls were structurally sound and could continue to be used as retaining walls under the proposed replacement bridge. The new bridge was designed to span over the top of the existing walls. This resulted in lower construction costs and minimized design coordination with utility companies. Additionally, keeping the proposed bridge roughly the same length as the existing structure minimized the construction impacts to nearby Basset Road. Coordination with the Army Corps of Engineers, MoDOT, and the State Historic Preservation Office were all required for this project.

[Ryan Thomas](mailto:ryan@cityofwildwood.com) | 636.405.2041 | ryan@cityofwildwood.com



West Watson Road & Baalbek Drive over Tributary B | City of Sunset Hills, MO

Both structures were hydraulically undersized based on a previous study of the channel. The replacement structures approximately doubled the hydraulic opening at each structure and increased the width of the roadways. Additionally, both hard armoring and natural stream bank stabilization were installed near Baalbek Drive in order to minimize bank erosion. Coordination with the Army Corps of Engineers, the MoDOT, and the State Historic Preservation Office were all required for this project. Both structures were designed according to MoDOT the Local Public Agency (LPA) guidelines.

[Wes Searcy](mailto:wsearcy@sunset-hills.com) | 314.849.3400 | wsearcy@sunset-hills.com



McCollister Blvd. Bridge over the Iowa River | City of Iowa City, IA

HR Green provided the conceptual, preliminary, and final design of this 393-foot long bridge. The bridge was designed to incorporate prairie style architectural handrailing. It included a 10'-wide sidewalk and overlook areas with benches for enjoying the scenic view from the bridge and roadway lighting.

[Ron Knoche](mailto:ron-knoche@iowa-city.org) | 319.356.5138 | ron-knoche@iowa-city.org



69th Street Improvements | City of Sioux Falls, SD

69th Street Improvements consisted of a bridge over the BNSF Railroad, 45,500 square feet of MSE retaining walls, and landscape architecture. The site was tight due to the proximity of the adjacent school and protected wetlands. Several aesthetic features were added at the request of the City to enhance the project site including custom form liners and staining on the MSE walls, a custom pedestrian railing with concrete columns and a decorative wave-like ribbon, and roadway lighting.

[Mark Cotter](mailto:mcotter@siouxfalls.org) | 605.367.8600 | mcotter@siouxfalls.org



Familiarity/Capability: HR Green combines engineering services with a diverse array of professional offerings including technical and management services. We enjoy a longstanding reputation for business accountability, partnering with clients to design, construct, own and operate successful enterprises. HR Green's professionals make accountable decisions that benefit clients at every stage of their journey, from planning, design and construction through operation and maintenance.

We help private and public sector clients with successful enterprises in the following markets: Transportation, Water/Wastewater, Energy, Governmental Services, and Senior Living.

In Missouri, HR Green has a team of twenty-two (22) employees that have completed over forty roadway design projects in the ten years since we started this office. Of those projects, almost half were completed using federal funds. Our local staff is extremely well versed in all aspects of the federal funding process including the preparation of TIP applications, grant writing, project design and implementation, construction observations, and construction administrative duties such as project closeout reporting. Because we know and understand the process and work well with those at MoDOT who oversee the fund expenditures, we are able to help manage our clients through the process and obtain appropriate clearances so that projects can be delivered on time. We are familiar with the variety of federal funding types, whether it is transportation funding through MAP-21, regional improvement funds through the Economic Development Agency (EDA) or other federal funding mechanisms. By understanding the process, we also help our clients to make what seem to be impossible schedules a reality, such as in the case of the ARRA process where we were designing projects from start to finish in three to four months. HR Green is proud of our track record of never having project funding pulled because of missed schedules or missed approvals.

Accessibility of Firm & Staff: HR Green's office is in St. Louis, located centrally to serve the needs of all our clients in the metro St. Louis region. This location does not preclude us from working effectively in other parts of the state, as we have consistently shown cities 2 plus hours away unparalleled responsiveness and level of service they could not get locally in their cities. And that is not just us saying that. In our *Green Commitment* surveys that we send to current and past clients each year, the one item that shows up time and time again is responsiveness – when they call or email the Project Manager from HR Green, they get a timely response with either a solution to their issue or a timeline and plan for when a response will come.

In addition, HR Green is one of only a few engineering firms to have fully invested in the “Cloud”, meaning all our offices work from a central data server. This is a huge advantage for our firm and our clients in that it allows employees to access their “computer” and files anytime, anywhere through a simple internet connection. Drawings, programs, submittals, emails, et cetera are easily accessible during meetings, at conferences, or from home. Our staff is always able to provide adequate responsiveness as suggested.

Why Select HR Green? We have attempted to demonstrate in this Letter of Interest that HR Green has the technical competence and the past experience to perform structural design services for a variety of projects meeting the requirements of this solicitation. Our design team has experience on similar projects for similar clients and a proven track record in meeting or exceeding client expectations. The project team's previous experience with federally funded structural projects demonstrates our knowledge of the process and understanding of the requirements that come along with the funding; items such as ADA and NEPA, and billing/invoicing/documentation requirements. HR Green has the ability to deliver complex design solutions on a variety of structural projects with varying scopes and sizes. Please give us a chance to be an on-call provider of structural professional services to the local municipalities across the state, and prove to them that our Team is the right team for their jobs!

Sincerely,
HR GREEN, INC.



David Maxwell, PE
Project Manager / Operations Director – Transportation



transportation



Introduction to HR Green

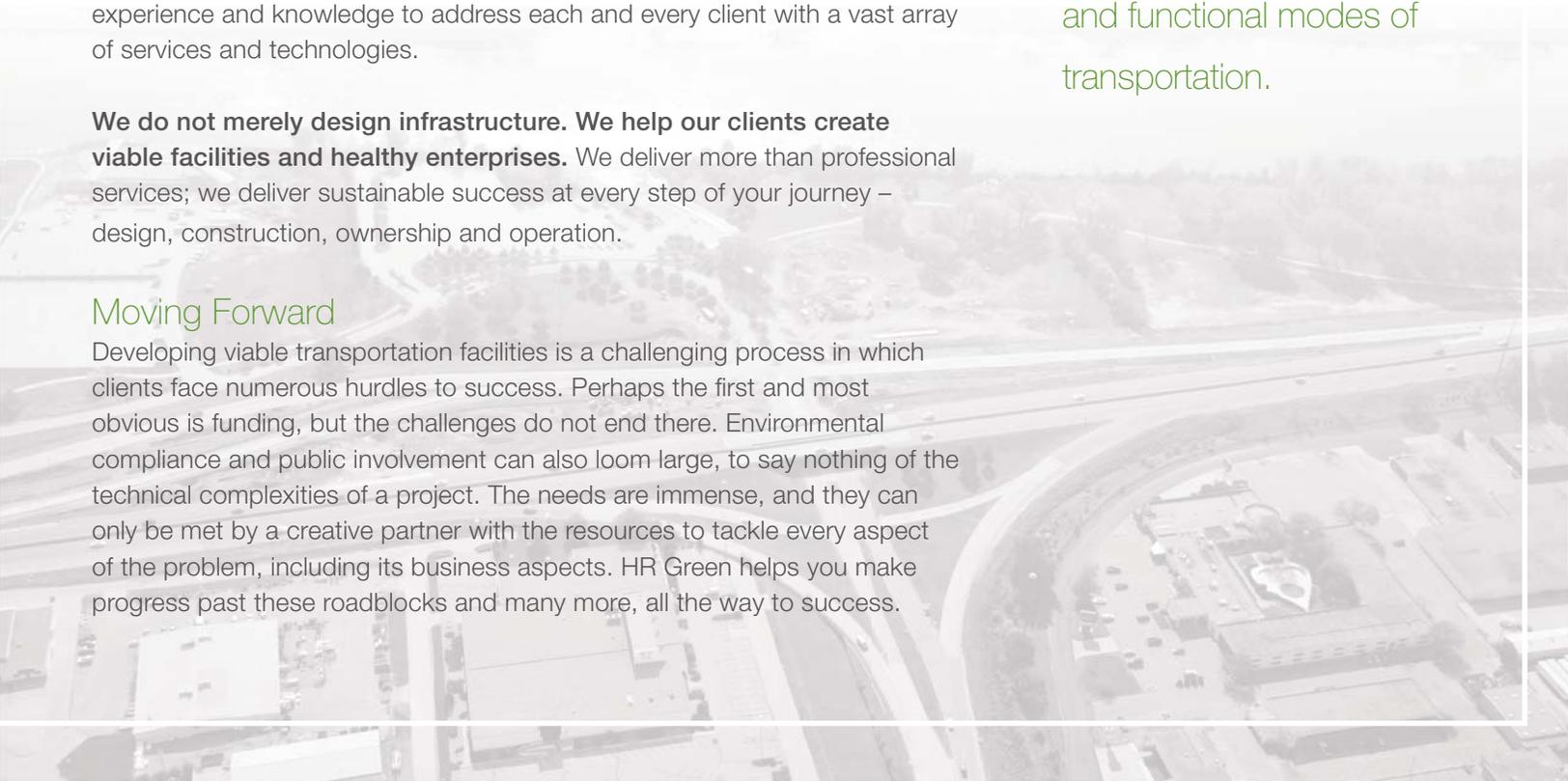
HR Green, Inc. (HR Green) has been in continuous operation for over 100 years and is a confluence of the former Howard R. Green Company with other successful companies who have joined together to form one strong organization. HR Green is a firm of nearly 400 skilled professionals with the experience and knowledge to address each and every client with a vast array of services and technologies.

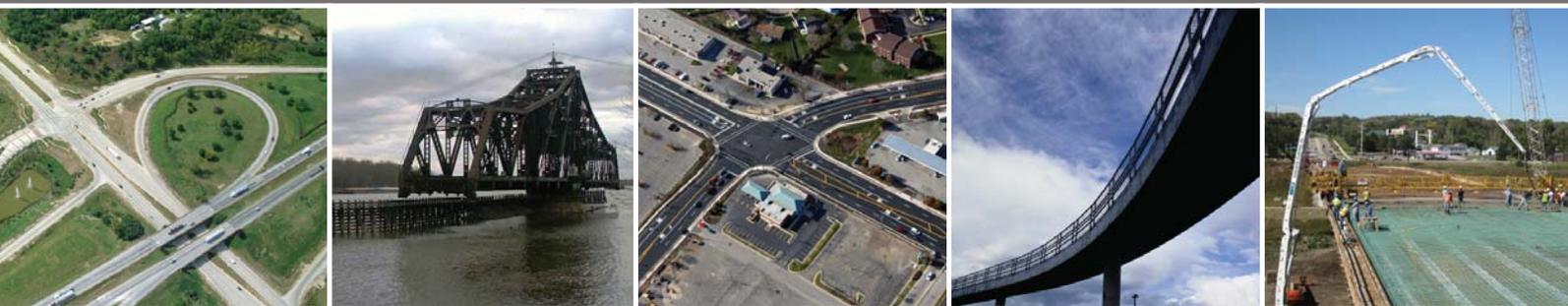
We do not merely design infrastructure. We help our clients create viable facilities and healthy enterprises. We deliver more than professional services; we deliver sustainable success at every step of your journey – design, construction, ownership and operation.

Moving Forward

Developing viable transportation facilities is a challenging process in which clients face numerous hurdles to success. Perhaps the first and most obvious is funding, but the challenges do not end there. Environmental compliance and public involvement can also loom large, to say nothing of the technical complexities of a project. The needs are immense, and they can only be met by a creative partner with the resources to tackle every aspect of the problem, including its business aspects. HR Green helps you make progress past these roadblocks and many more, all the way to success.

HR Green connects people, places and products by creating safe and functional modes of transportation.





Highways/Bridges Services:

- Funding procurement
- Transportation planning
- Traffic engineering
- Public involvement
- NEPA environmental services
- Drainage planning and design
- Roadway and structural design
- Construction phase services

By combining the latest technology with community leadership and business accountability, HR Green tackles the many challenges of a project.

Traffic Services

- Intelligent Transportation Systems
- Interconnect designs
- Traffic conflict studies
- Traffic control plans
- Traffic impact studies
- Traffic operation modeling
- Traffic signal studies

Delivering More

The global economy depends on safe and efficient transport of people and products. With a century in the transportation consulting business, HR Green understands the needs of transportation clients in the practice areas of Highways & Bridges and Construction.

Highways/Bridges: Our Highways & Bridges practice is a core business of our company. From local, urban streets to interstates, HR Green covers every phase of project development. Clients look to HR Green for much more than plans and specifications. In many cases, they depend on us for a careful assessment of the project's financial, political and environmental challenges, as well. We tackle those challenges by combining the latest technology with the community leadership and business accountability that have been hallmarks of HR Green for a century.

Our Highways & Bridges clients include cities, counties and states across the nation, as well as toll-way authorities, private corporations and the federal government.

Traffic: HR Green strives to help our clients balance quality of life and safety by improving transportation infrastructure and traffic operations systems that support transit and emergency service and other modes of transportation, making our communities more livable, attractive and safe. We provide a full range of services from traffic impact studies, corridor studies, traffic signal studies and design, traffic safety evaluations, road safety audits and access management plans to traffic operations models, urban interchange and intersection design, roundabout design, implementation of the Safe Routes to School Program and funding applications for a variety of traffic improvement projects.

We focus on safe and efficient traffic flow, such as road geometry, sidewalks and crosswalks, bicycle and pedestrian facilities, shared lane marking, traffic signs, road surface markings and traffic lights.

Environmental Services: HR Green has staff members with national expertise in environmental compliance and are prequalified where needed to provide Environmental Assessment and Environmental Impact Statements. HR Green teams with our clients to identify and address environmental concerns, comply with regulatory requirements and apply the latest in technology and thinking to arrive at solutions to projects. This allows us to avoid project delays and lead projects through multiple challenges.

Construction: At HR Green, construction services are not a mere afterthought provided by personnel whose true specialty is design. Helping our clients through the critical construction phase is so important, that we established an entire practice area within our company to specialize in this discipline. Our construction professionals ensure long-lasting, low maintenance facilities while managing our client's investment throughout construction. We are experts in providing documentation and final records necessary for full reimbursement from funding authorities.

Moreover, we do not wait until plans are finished before we involve the trained eye of a construction professional. We perform constructability reviews early in the design process whenever possible, even as early as the preliminary design phase. Above all, we want constructible projects. This approach frequently pays off in the form of favorable construction bids for our clients.

Environmental Services

- Noise and Special Studies
- Land use inventory/evaluation
- Contaminated sites (Phase I & II ESA)
- Socio-economic and environmental justice issues
- Endangered/threatened species
- Air quality
- Cumulative and indirect impacts
- Wetlands mitigation

HR Green keeps your projects and programs moving forward.

Construction Services

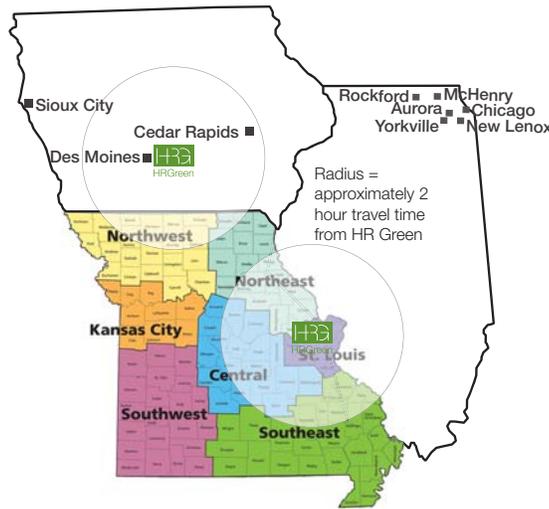
- Contract administration
- Construction observation
- Construction management/owner Representation
- Project accounting and material tracking
- Performance records and payment
- On-call troubleshooting
- Constructability reviews
- NPDES erosion control services



With a staff of nearly 400 people and offices in 9 states, HR Green has employed the latest technology, moving to a virtual environment.

This allows our staff more efficient access to files and data, across all geographies providing improved mobility and delivery of projects.

REGIONAL LOCATIONS



HR Green has 16 offices, primarily located in the Midwest with additional offices in Texas, California, Colorado and Pennsylvania. Our Midwest offices are located throughout Illinois, Iowa, Minnesota, South Dakota, and Missouri. Our local Missouri professionals and regional focus allows us to easily provide specialty services to and handle peak workloads for MoDOT and local agencies from our offices throughout the region.

HR Green provides comprehensive services for planning, design and construction of streets and highways and bridges.



Contact **Jason Dohrmann, PE**
Direct 636.812.4209

Toll Free 800.728.7805
Learn more at HRGreen.com

transportation
water
governmental services
senior living
energy

Business Accountability

HR Green is a professional engineering and technical consulting firm serving clients throughout the United States and beyond. We enjoy a longstanding reputation for business accountability. We are a privately held, employee-owned company, fully committed to the success of our clients and the well-being of our employees.

Business accountability means that we partner with our clients to create viable facilities and healthy enterprises that are truly sustainable for the client.

We work this way with every client, whether in the public or private sector, and at every step of their journey: design, construction, ownership and operation.