

November 15, 2013

Mr. Kenny Voss  
Local Program Administrator  
Missouri Department of Transportation  
105 West Capitol Avenue  
Jefferson City, Missouri 65102

RE: Letter of Interest - Roadway Design, LPA

Dear Mr. Voss,

Kuhlmann *design* Group, Inc. (KdG) is interested in providing Roadway design services to Missouri's Local Program (LPA) for the Roadway Design Services Contract. KdG is listed on MoDOT's Approved Consultant Prequalification List.

**GENERAL EXPERIENCE OF FIRM**

KdG believes they are uniquely qualified to provide the professional services required. KdG is in its 39th year of service in the engineering profession. We are experienced roadway design professionals who have a long-term commitment to and relationship with MoDOT and the LPA. KdG is committed to the concept, commitments, and rewards of the partnering program. KdG engineers have experience in roadway projects that include design of widening, resurfacing, pavement reconstruction, utility design and coordination, right-of-way, assistance with obtaining environmental clearance, traffic signal and lighting design, sidewalk design, and parking lot design. KdG surveyors are experienced in survey requirements for roadway design projects. Please see attached references from recent clients on Roadway Design projects.

**PAST PERFORMANCE**

***Edgewood Lane & Huber Street: Festus, Missouri*** - KdG was retained by the City of Festus as part of an Indefinite Delivery / Indefinite Quantity (ID/IQ) contract to provide design for a repair and overlay of over 2,700 feet of Edgewood Lane and approximately 700 feet of Huber Street as part of the city's Preventive Pavement Maintenance Program (PPMP). The existing roadways had been overlaid numerous times in recent history without maintaining the integrity of the existing curb and gutter drainage system. This caused pavement deterioration and resident complaints of standing water in both the roadway and private yards. KdG proposed full depth pavement repair in the deteriorated locations as well as asphalt milling down to original road thicknesses to correct drainage issues.

***Main Street Relocation: Cape Girardeau, Missouri*** - KdG was retained by the Isle of Capri to provide design for a 1,700 ft. portion of Main Street. The work included the relocation of the intersections at Mason Road and Mill Street, as well as a new signalized intersection at North Spanish Street. The design contained concrete sidewalks, ADA ramps, storm sewers, sanitary sewers, 8" and 30" water lines, underground high voltage power lines, and the relocation of a sanitary pump station. The project also included traffic signals and decorative street lighting. Over 2,300 ft. of sanitary sewer had to be carefully staged and designed to work with both old and new pump stations to allow for no loss in service. The site contained steep grades and a large number of other utility relocations.

***First Capitol & West Clay: St. Charles*** - KdG generated construction drawings, specifications, and cost estimates for the improvements to the intersection of this LPA project. The intersection was improved to provide wider pavement for the West Clay approach at an improved angle with First Capital Drive (90 degrees). The travel lanes on First Capital were also improved by widening and

replacing the medians. Pedestrian islands, sidewalks, ADA curb ramps, and new traffic signals were included on the project.

**North Fifth Street Extension: St. Charles, Missouri** - KdG designed the 530-foot bridge to cross State Highway 370 and the Norfolk and Southern Railroad. Two concrete abutments support seven steel plate girders and five intermediate bents. The bridge was aesthetically enhanced through the use of special lighting, stone veneer, and stained concrete. The bridge contains a dedicated bicycle lane which connects the Katy Trail to New Town in St. Charles.

**Old Baxter Road: Chesterfield, Missouri** - The renovation project involved the complete reconstruction of 2,000 ft. of roadway, new curb and gutters, enclosing open storm sewers, and ADA accessibility modifications to existing sidewalks. As a result of KdG's value engineering study, construction time was reduced by several months, siltation runoff was decreased, and ancillary costs such as easements, traffic control, and utility reconstruction were avoided.

**Old Warson Road Improvements: Ladue, Missouri** - KdG was retained by the City of Ladue to provide design and construction phase services for 1.6 miles of roadway. The existing road was in disrepair due to lack of needed storm water management, and the project budget would not allow for reconstruction of the entire roadway; KdG identified over fifty locations where a full depth repair would be needed. Ditches and curb and gutter were added in selective locations to better control the storm water and help prevent future pavement deterioration.

#### **QUALIFICATIONS OF PERSONNEL**

Our Roadway Division is composed of experienced professionals who have worked on previous LPA projects. The staff of KdG can provide successful projects to the Missouri Department of Transportation.

#### ***Chad D. Fairbanks, P.E. - Project Manager***

Mr. Fairbanks has over 17 years of experience in the planning, design, and construction services of traffic and transportation related projects. He has provided funding applications, transportation design calculations, quantity calculations, construction specifications, cost estimates, hydraulic calculations, schedules, inspection reports, and construction observation for transportation projects. Mr. Fairbanks' experience ranges from major MoDOT highways and interstates to local streets and sidewalks. He has worked on MoDOT projects in various districts, including work on many signalized intersections and highway projects.

#### ***Martin N. Solomon, PE, PTOE - Traffic Engineer***

Mr. Solomon performs design and planning tasks on a variety of transportation projects. He has 35 years of traffic engineering experience with over 29 years of experience with the St. Louis County Department of Highways and Traffic encompassing traffic studies and operations, signal design, capacity analysis, signal timing, and intersection design. He has conducted intersection traffic control studies, accident analysis, speed, signing, and striping studies. While with St. Louis County he was responsible for the operation of over 500 traffic signals. He developed traffic signal timing plans, phasing, and coordination plans for arterials and closed loop systems. Mr. Solomon has conducted computer simulation, optimization, and capacity analyses. He is proficient with HCS-2000, Synchro, SimTraffic, TSPPD-Draft, and other traffic engineering software. He has provided traffic signal designs for a variety of MoDOT projects. Mr. Solomon is also capable of providing roadway lighting design. Using the LitePro software package he has produced lighting contour maps for both MoDOT and developers in preparation for lighting design plans.

#### ***Anthony J. Girondo III P.E. - Roadway Engineer***

Mr. Girondo has over 12 years of experience in civil engineering design and construction administration. He has been involved with various types of projects for clients including municipalities and state departments, private developers, and individual homeowners. He has worked on projects from conception through the completion and closeout of construction. Mr. Girondo has competent experience with transportation planning and design projects, commercial and industrial developments, stormwater collection with detention and water quality requirements, sanitary sewer collection and

pumping stations, athletic complex layouts and design, potable water distribution and residential subdivision layouts.

***April M. Giesmann, PE - Civil Engineer***

Ms. Giesmann has over 17 years of experience in civil engineering design and planning. She has extensive experience working with municipalities, departments of transportation and other government agencies. She has been involved in the design of storm sewers, detention facilities, sanitary sewers, parking lots and play fields for educational facilities, commercial projects, residential properties, roadway projects, and recreational facilities. She is competent in hydrologic and hydraulic modeling and has performed multiple flood plain studies and designed numerous detention facilities and water quality BMPs.

***Christine M. Beasley, PLS - Survey Department Manager***

Ms. Beasley has over 23 years of experience in land surveying, civil engineering, and project management. Her project experience includes GIS mapping, GPS surveying, residential, commercial, municipal, and roadway projects, as well as many different types of environmental projects. Ms. Beasley has experience that includes boundary surveys, right-of-way surveys, record plats, topographic surveys, construction surveys, and ALTA/ACSM surveys. Her experience also includes the use of AutoCAD/Civil3D, AutoCAD/Land Development, Microstation, and GeoPAK as well as the use of ArcMap and Map 3D.

**FAMILIARITY/CAPABILITY**

KdG engineers, architects, and technicians are well versed in federal requirements and have performed numerous projects for multiple Local Public Agencies, MoDOT, IDOT, United States Air Force, and other entities that receive federal funding. Within the last 5 years KdG has completed 11 projects either for the Federal Government or containing federal funding. All of the projects were completed following federal laws and guidelines with respect to contracts, design, deliverables, implementation, and record keeping. KdG is qualified and prepared to complete projects within full compliance of applicable federal laws.

**ACCESSIBILITY**

KdG has a strong track record of delivering high-quality federal projects on-time that are compliant with federal law. We take pride in putting our client's needs first; we feel our large number of repeat clients is a strong testament to our quality of work. KdG currently holds an open-ended contract for roadway and stormwater design projects with the City of Festus; Happy Welch, City Administrator, said "(KdG is) very responsive to City needs and residents". KdG recently performed professional design services for the City of Creve Coeur, prompting City Engineer Matt Wohlberg to say, "KdG proved to be very responsive and easy to work with for (this) project. Their concept analysis was a key element in discussions with the Missouri Department of Transportation regarding the feasibility of this project, and the concept layouts and designs were drafted in a way that were easy to understand. The City of Creve Coeur will certainly include (KdG) on future requests for qualifications for engineering design services".

Thank you for your time and consideration. Should you have any questions or require additional information, please feel free to contact us at any time.

Respectfully,  
Kuhlmann *design* Group, Inc.



Chad D. Fairbanks, P.E., LEED AP  
Project Manager

CDF2/ceo

**ORGANIZATION:**

Kuhlmann *design* Group, Inc. (KdG), founded in 1974, is comprised of approximately 60 individuals organized into four divisions. We offer diverse services which can be contracted for jointly or individually based on project needs and client preferences. Each professional discipline is managed autonomously which maximizes and focuses the senior design professionals' abilities directly to the needs of the client.

**PHILOSOPHY OF SERVICE:**

Meeting client needs is the driving force of KdG's existence. It is our responsibility to maintain current and in depth professional knowledge within our field of experience, to communicate with our clients in order to understand their goals, and convey to them a clear understanding of our solutions, providing them with complete data regarding decisions we ask of them.

**SUSTAINABILITY:**

KdG incorporates the responsible use of finite resources in all aspects of the design, construction, and operational performance of our projects. We encourage our clients to adopt realistic goals regarding sustainable practices to utilize our LEED accredited Architects and Engineers on staff to assist in meeting those goals.

**FIRM DIVISIONS:**

- Architecture
- Interiors
- Building Engineering
- Infrastructure Engineering & Surveying

**OFFICE LOCATIONS:**

Main Office  
66 Progress Parkway  
St. Louis, Missouri 63043

Illinois Office  
15 East Washington  
Belleville, Illinois 62220

Firm Profile



Kuhlmann *design* Group, Inc. (KdG) has an experienced staff of over 60 professionals available to render comprehensive professional services. KdG offers the following complete project design services:

**ARCHITECTURE**

Site Analysis & Selection; Master Planning; Needs Assessment; Facility Assessment; Programming; Project Budget Development; Design; Project Management; Construction Document Preparation; Construction Administration; BIM Modeling & 3D/4D Project Coordination; 3D Architecture Illustration & Animation; ADA Compliance Survey; Roofing & Building Envelope Investigations; Theming & Brand Development

**INTERIOR DESIGN**

Interior Programming; Space Analysis & Planning; Brand Conception; Brand Strengthening; Development and Creation of Interior Environments and Decor; Selection and Specification of Finishes and Furnishings; Project Cost Estimating; Budget Analysis; Preparation of Construction Documents; Construction Administration; Procurement Management Services

**STRUCTURAL ENGINEERING**

Structure and Foundation Design; Preliminary Design, Concepts and Feasibility Studies; Earthquake Retrofit; Rehabilitations and Renovations; Noise Abatement Walls; Structural Support of Mechanical and Process Equipment

**ELECTRICAL ENGINEERING**

Power Distribution; Lighting Design; Standby Power Generation; Automatic Transfer and Paralleling Schemes; UPS; Fire Alarm/Security; Audio/MATV; Communications; Roadway/Parking Lot Lighting

**MECHANICAL / PLUMBING / FIRE PROTECTION ENGINEERING**

Heating; Ventilating and Air Conditioning; Boiler and Chiller Replacements; Building Automation/Energy Management Systems; Environmental Control Systems; Energy Audits and ECM Implementations; Life Cycle Cost Analysis; Plumbing Systems; Industrial Ventilation and Exhaust Systems; Fire Protection Systems

**SURVEYING**

Global Positioning Systems Surveying and Mapping; Geographic Information Systems Surveying and Mapping; Boundary/Property; Construction Staking; Hydrographic; ALTA; Topographic

**CIVIL ENGINEERING**

Feasibility Studies for Land Use; ADA Audits & Design; Road & Sidewalk Design; Utility Design & Coordination; Storm and Sanitary Sewer Design; Grant Applications; Flood Studies; Storm Water Quality & Quantity Management; Preliminary & Final Design; Paving & Grading Design; Construction Cost Estimates; Construction Inspection

**TRANSPORTATION ENGINEERING**

Feasibility/Alternative Studies; Preliminary and Final Design; Bridge Engineering; Highway/Road Engineering; Pavement Evaluation and Design; Permanent Slope Protection; Utility Relocations; Traffic Engineering, Traffic Studies, Intersection Studies; Signal Design

Kuhlmann *design* Group, Inc. is in the business of transforming ideas into solutions. Our designs start with you. The responsibility of discerning our clients' needs, goals, and vision requires careful listening and natural inquisitiveness. Transforming your vision to the built environment is the foundation of our philosophy and design process.

We understand the responsibilities entrusted to us. The design, development, and construction of a project represent a tremendous expense of resources both in time and money. It is our goal to optimize these resources.

Discipline is necessary in successfully fulfilling our responsibility. To that end, we have developed the following:

**DESIGN PHILOSOPHY**

Our Creative Process:

- Carefully listen and gather programmatic information from all users.
- Develop an insightful understanding of the project purpose.
- Discuss options with the client.
- Build consensus through a collaborative effort.
- Blend diverse input from client expertise and both design and technical staff.
- Clearly state design objectives and project goals.
- Present concepts and designs with artistry.

Our Design Solutions:

- Meet practical needs with creative solutions.
- Tailor solutions that fit the clients' needs, goals, and personality.
- Enhance the lives of all occupants and the community.
- Respond to local surroundings and respect the environment.
- Express an aesthetic character appropriate to the projects use.
- Solve problems, rather than create new ones.



Kuhlmann *design* Group, Inc. (KdG) uses AutoDesk Revit, Architecture, and Civil 3D for the production of Construction Documents within the Architectural, Structural, Mechanical, Electrical, and Civil/Surveying departments. Civil, Survey, Roadway and Bridge projects are designed in Microstation and GeoPak.

The hardware and software utilized by KdG for construction documents is as follows:

**SERVERS**

- Windows Data Servers (Redundancy within each office)
- Windows 2003 Exchange Server
- Windows 2008 Web Server

**COMPUTER AIDED DRAFTING AND DESIGN**

- CAD Workstations utilizing Windows Operating Systems
- Autodesk Revit 2013 - Architectural, MEP, Structural
- Autodesk NavisWorks Manage 2013
- AutoCAD (Including Architectural 2013 and Civil 3D)
- Microstation V8 and GeoPak

**SPECIFICATIONS/DOCUMENT SOFTWARE**

- BSD Specklink-E Specifications
- AIA Document Software
- Microsoft Office 2003/2007

**GRAPHICS SOFTWARE**

- Adobe Photoshop CS5
- Autodesk 3DS Max Design 2013
- Microsoft PowerPoint Graphics
- V-RAY 2.0
- V-RAY RT
- Adobe Master Collection CS5
- Animation and rendering farm
- 7 dedicated dual chip rendering servers

**PROJECT MANAGEMENT SOFTWARE**

- Microsoft Project Management and Control
- Primavera Sure Trak Project management and control
- Newforma

**EXPERIENCE**

Autodesk Revit Architecture Certified Professional on staff  
Version 2011, 2012, and 2013