

November 15, 2014

Mr. Kenny Voss, P.E., Local Program Administrator  
Missouri Department of Transportation  
105 West Capitol Avenue, P. O. Box 270  
Jefferson City, Missouri 65102

Re: **Letter of Interest**  
**Local Public Agency (LPA) / Structures**

Dear Mr. Voss:

Klingner & Associates, P.C. is very interested in providing Structural Design services to Local Public Agencies in Missouri. Klingner has been providing professional engineering services for bridges, retaining walls, and other transportation related structures for over 30 years. Clients have included state departments of transportation as well as counties and municipalities in Missouri, Illinois, and Iowa.

**GENERAL EXPERIENCE:**

The following projects indicate Klingner & Associates' experience on various structural design projects. Over the year we have designed well over 100 bridges and culverts through on-call and project specific design contracts. In addition we have extensive experience in foundation, building, pump station, and retaining wall design.

**Warren Barrett Drive over Bear Creek, Hannibal, MO Structure #18417** – Klingner & Associates is providing a preliminary bridge evaluation and study to determine the re-use of the existing substructure and deck replacement. The structure is a two-span 122' structure. The project scope also includes final construction plans and specifications.

**Route N over North Fabius River, Missouri DOT Bridge A6675** - Perform complete preliminary planning and final design engineering services for a 3-span structure involving continuous composite PPC I-beam superstructure with integral abutments and concrete piers.

**County Highway 7 over Bear Creek, Adams County, IL SN 001-3234** - Klingner provided preliminary and final design services to the Adams County Highway Department for the rehabilitation of the 814', ten span PPC deck beam bridge over Bear Creek. Project involves the removal and replacement of the precast deck beams, pier cap repair and minor roadway work.

**Cannonball Rd. over BNSF Railway, Adams County, IL SN 001-3338** - Project involves the removal of an existing 10 span timber bridge and replacing it with a three span composite beam bridge over the BNSF Railway. The structure will utilize galvanized steel beams. Total length of the bridge is 190'. Klingner worked with the BNSF railway to meet their concerns and provide room for future track expansion.

**US 67 over Farmers Fork Creek, McDonough County, IDOT District 4 SN 055-0080 & SN 055-0081** - Phase I Engineering services provided for the removal and replacement of dual structures carrying US 67 over Farmers Fork Creek, approximately 1 mile south of the IL 9 / US 67 intersection. Work included: Field survey of the project site, Preparation of a Project Report, prepare a bridge condition report, Prepare a structure geotechnical report, Inspect and analyze the structures for the feasibility of stage removal, Prepare a Type Size and Location (TSL) plan and structure report, and prepare a hydraulic report.

**Avenue D over French Creek, City of Fort Madison, Iowa FHWA No. 005320** - Services include preparation of construction plans, specifications, hydraulic study, and cost estimates for a new 90' long 3 span continuous concrete slab bridge. Structure includes pedestrian walkway and support systems for attached 6" water main.

**IL 101 over LaMoine River, Schuyler County, IDOT District 6 SN 085-0514** - Services include the Type Size and Location (TSL) plan, construction plans, and specifications. Work to involve the removal and replacement of the existing bridge with a six-span steel plate girder bridge. The proposed superstructure will consist of six 38" plate girders and 8" poured concrete deck. The stub abutments will be supported on two rows of steel H-piles driven to rock. The piers will consist of four column drilled shafts to rock. Piers 1 and 2 will have web wells between columns. The bridge is designed using LRFD guidelines. Traffic will be maintained utilizing stage construction.

**US 67 over and onto IL 255, Madison County, IDOT District 8 SN 060-0332** - Services include the Type Size and Location (TSL) plan, construction plans, and specifications. Work involves the construction of new fly-over structure. Proposed superstructure consists of a 3 span, reinforced concrete deck on composite curved plate girders. Proposed substructure consists of a vaulted abutment and a pile bent integral abutment and a concrete pier with special aesthetic features.

**IL 255 over Pacific & Kansas City So. RR, Madison County, IDOT District 8 SN 060-0310 & SN 060-0311** - Services include the Type Size and Location (TSL) plan, construction plans, and specifications. Work involves the construction of new dual grade separation structures carrying IL 255 and two interchange ramps. Proposed superstructures consist of a tapered single span, reinforced concrete deck on continuously welded plate girders. Proposed substructures consist of pile bent integral abutments with special aesthetic features.

**PERSONNEL:**

The following individuals perform the key functions within the Klingner organization for bridge design projects and will be responsible for the successful completion of these on-call projects:

**Alan D. Lukens, P.E., S.E. – Principal / Structural Department Head.** Mr. Lukens has 27 years of bridge design experience and will be responsible for the quality control and review of all structural projects. Mr. Lukens received his B.S. in Agricultural Engineering and his M.S. in Agricultural and Structural Engineering from Iowa State University in 1987.

**Ryan J. Phelps, P.E. – Staff Engineer** with 10 years of transportation experience. He has LRFD Design for Highway Bridge Superstructure training in 2007/2008 and is a Certified Bridge Inspector, NBIS Safety Inspection of In-Service Bridges.

**Kyle T. Hannel, P.E. – Staff Engineer** with 6 years of transportation experience. He provided the design and preparation of final plans for two single span, 48" steel plate girder superstructure bridges. He also provided inspection and scour analysis for various bridges for the IDOT in various Illinois counties, and assisted in final design plans and preparation of triple box culverts for IDOT in Pike County for two structures.

**Aaron M. Schaefer, P.E. – Staff Engineer** with 7 years of transportation experience. Previous transportation experience includes analysis and design for rehabilitated and new bridge design alternatives. He also assisted on Department of Transportation Phase I Engineering reports and Phase II Final Design, and conducted safety and fracture critical inspections and load ratings on in-service bridges.

**Steven E. Bange, P.E. – Transportation Department Head / Project Engineer** with 19 years of experience in transportation design with Klingner & Associates. He has been directly involved in location and preliminary design studies, permit applications, hydraulic studies, construction plan preparation, and special provisions for numerous projects.

**Mark C. Bross, P.E. – Project Engineer** with 18 years of experience. Mark has worked with numerous local agencies in Missouri. He was project manager for the sidewalk projects in Frankford, Kahoka, and

Clarksville, MO. Experience includes design, project management, and coordination with regulatory and funding agencies.

**Eric B. Barnes, P.E.** – Project Engineer with 21 years of transportation design experience. He has been directly involved in location and preliminary design studies, permit applications, construction plan preparation, and special provisions for numerous projects with the Illinois DOT.

**Ronald W. Craven, P.E.** – Geotechnical Engineer with 40 years of experience in geotechnical engineering field and construction materials testing, he is in charge of geotechnical services for the firm. Experienced in proprietary geotechnical engineering programs for boring log preparation, compaction, soil identification, atterberg limits, slope stability, consolidation and permeability testing.

Additional staff will be utilized as needed to complete the project team for any given project. We will assign staff and resources to meet the project schedule and established deadlines. The relationships we have nurtured with regulatory and funding agencies will result in fewer delays and resubmittals which can ultimately move projects back.

To meet our client's needs and schedules, the K&A managerial approach and philosophy for any project focuses on three concepts:

- Project Management
- Communication and Coordination
- Quality Control / Quality Assurance

All Structural Design projects for Missouri Local Public Agencies will be managed in our Hannibal office, with assistance from the Quincy office as needed to complete the work in an efficient and timely manner.

Your consideration of the Klingner & Associates team is greatly appreciated.

Very truly yours,

KLINGNER & ASSOCIATES, P.C.



Steven E. Bange, P.E., Transportation Department Manager

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# TRANSPORTATION SERVICES

Our design professionals **quality** look for creative, cost-effective, and sustainable solutions to meet our client's and the community's needs when taking a project from **knowledgeable** concept to completion. The transportation staff teams with Klingner's other **innovative** engineering departments to utilize their knowledge and experience. The results of this **cost-effective** collaboration are safe, functional, and attractive facilities to connect people and places.



*Your trusted solution.*

*Our reputation rests on our attention to detail and correctness of solution. We pledge this attention to all of our projects.*

**KLINGNER**  
**& ASSOCIATES, P. C.**  
Engineers • Architects • Surveyors

# STRUCTURES PROJECTS

**Adams County Illinois Highway Department** - Cannonball Rd. over BNSF Railway, Adams County, IL SN 001-3338 - Project involves the removal of an existing 10 span timber bridge and replacing it with a three span composite beam bridge over the BNSF Railway. The structure will utilize galvanized steel beams. Total length of the bridge is 190'. Klingner worked with the BNSF railway to meet their concerns and provide room for future track expansion.

**Illinois Department of Transportation District 4 - US 67 over Farmers Fork Creek, McDonough County SN 055-0080 & SN 055-0081** - Phase I Engineering services provided for the removal and replacement of dual structures carrying US 67 over Farmers Fork Creek, approximately 1 mile south of the IL 9 / US 67 intersection. Work included: Field survey of the project site, Preparation of a Project Report, prepare a bridge condition report, Prepare a structure geotechnical report, Inspect and analyze the structures for the feasibility of stage removal, Prepare a Type Size and Location (TSL) plan and structure report, and prepare a hydraulic report.

**City of Fort Madison Iowa - Avenue D over French Creek Iowa FHWA No. 005320** - Services include preparation of construction plans, specifications, hydraulic study, and cost estimates for a new 90' long 3 span continuous concrete slab bridge. Structure includes pedestrian walkway and support systems for attached 6" water main.

**Illinois Dept of Transportation District 8 - US 67 over and onto IL 255, Madison County, SN 060-0332** - Services include the Type Size and Location (TSL) plan, construction plans, and specifications. Work involves the construction of new fly-over structure. Proposed superstructure consists of a 3 span, reinforced concrete deck on composite curved plate girders. Proposed substructure consists of a vaulted abutment and a pile bent integral abutment and a concrete pier with special aesthetic features.



**KLINGNER**  
& ASSOCIATES, P. C.  
Engineers • Architects • Surveyors

# TRANSPORTATION PROJECT TEAM



**Alan Lukens, PE, SE**

Principal / Structural  
Department Head.  
Mr. Lukens has 27 years of  
bridge design experience.  
Professional Engineer:  
Illinois, Missouri, Iowa,  
Alabama, Kansas  
Structural Engineer: Illinois

**Ryan Phelps, PE**

Project Engineer with 10 years  
of experience. with bridge  
design.  
Professional Engineer: Illinois,  
Missouri, Iowa  
Certified Bridge inspector  
NBIS Safety Inspection of In-  
service Bridges



**Kyle Hannel, PE**

Project Engineer with 6 years  
of experience in bridge design.  
Professional Engineer: Illinois,  
Missouri, Iowa  
Certified Welding Inspector

**Aaron Schaefer, PE**

Project Engineer with 7 years  
of experience. with bridge  
design.  
Professional Engineer: Illinois,  
Missouri, Iowa



**Steve Bange, PE**

Department Manager of  
Transportation Department  
Project Engineer with 19 years  
of experience in transportation  
design.  
Professional Engineer: Illinois,  
Missouri, Iowa

**Mark Bross, PE**

Project Engineer with 18 years  
of experience. with municipal  
transportation projects.  
Professional Engineer: Illinois,  
Missouri, Iowa

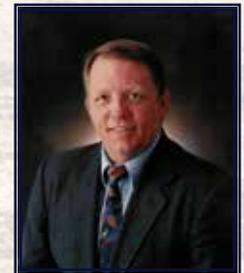


**Eric Barnes, PE**

Project Engineer with 21  
years of transportation design  
experience.  
Professional Engineer: Illinois,  
Missouri, Iowa

**Ron Craven, PE**

Department Manager of  
Construction/Material Testing  
Department  
Project Engineer with ?? years  
of experience in Geotechnical  
engineering.  
Professional Engineer: Illinois,  
Missouri, Iowa



# TRANSPORTATION *Services*

*The transportation engineering professionals of Klingner offer the following services:*

- FREEWAY, HIGHWAY, AND STREET DESIGN
- TRAFFIC STUDIES AND MODELING
- SIGNALIZED AND ROUNDABOUT INTERSECTION DESIGN
- COMPLETE STREETS / ROADWAY DIETS
- PROWAG ACCESSIBILITY ANALYSIS AND DESIGN
- MASTER PLANNING / CONTEXT SENSITIVE SOLUTIONS
- DESIGN AND LOCATION STUDIES
- NEW BRIDGE AND BRIDGE REHABILITATION DESIGN
- BRIDGE / CULVERT HYDRAULICS AND HYDROLOGY
- BRIDGE INSPECTION AND RATING
- BRIDGE AND ROADWAY LIGHTING
- RAILROAD TRACK AND STATION DESIGN
- INTERMODAL FACILITIES
- ROADWAY / UNDERPASS PUMP STATIONS



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