

November 14, 2014

MaryAnn Jacobs
Intermediate Planning Technician
Missouri Department of Transportation
105 West Capitol Avenue
Jefferson City, Missouri 65102

Dear Ms. Jacobs and Members of the Selection Committee,

Missouri's Local Program's commitment to community development and a safe and efficient transportation system for the people of Missouri is evident in the numerous projects completed successfully each year. As Missouri's Local Program looks at future challenges and opportunities, the Traffic Engineering & TEAP On-Call contract supports this commitment. Parsons Brinckerhoff's reputation for quality deliverables related to traffic engineering has proven to streamline the decision-making processes and deliver innovative solutions and has assisted our municipal clients' ability to best improve their infrastructure more cost-effectively.

Prequalification

Parsons Brinckerhoff has the prequalification requirements and is currently prequalified as follows:

◆ Federal Aid Basic Training	12/30/2016
◆ MoDOT E-Verify	7/25/2015
◆ Financial Prequalification	9/23/2015
◆ Bridge Form	5/10/2016
◆ Bridge QA/QC	5/10/2016

General Experience of the Firm

Founded in 1885, Parsons Brinckerhoff is one of the oldest continually operating consulting engineering firms and is consistently ranked one of the top transportation consulting firms in the United States. With approximately 14,000 people in more than 150 offices on five continents, Parsons Brinckerhoff mobilizes regional expertise-combining global reach with local knowledge. Our commitment to quality and technical excellence has made Parsons Brinckerhoff a recognized leader, providing the knowledge and skill base that is borne of experience. Parsons Brinckerhoff has ISO 9001:2008 Quality Management certification and extensive, long-standing experience in traffic engineering.

Parsons Brinckerhoff's local St. Louis office has been actively involved in complex transportation projects across Missouri for over 65 years. Parsons Brinckerhoff has worked closely with municipalities including public works, planning and zoning, parks, city councils and economic development departments. We understand that early coordination with the local agency, as well as residents and businesses that will be impacted by the project opens the lines of communication to deliver a successful project that meets goals and exceeds expectations. With over 70 multi-disciplined professionals in St. Louis and the Kansas City metropolitan area, Parsons Brinckerhoff is able to provide specialized expertise related to the Traffic Engineering category.

Within the last five years we have completed over 150 projects across Missouri, including 20 federally funded projects.

Past Performance

Based on Parsons Brinckerhoff's commitment to service and quality, we have earned an outstanding reputation in the community and among our professional peers. The high volume of repeat work is an indicator that our approach is working, and these continual relationships with our clients speak to the level of their satisfaction. In addition to the projects highlighted on the Company Reference Forms, below is a list of projects for which Parsons Brinckerhoff has provided traffic engineering services.

Project Name and Owner	Location	Year Complete	Signal Timing and Optimization	Traffic Studies	SYNCHRO Modeling	VISSIM Modeling	Data Collection
Traffic Engineering On-Call Safety Project, KDOT	(Statewide) KS	2015	◆	◆	◆	◆	◆
Traffic Engineering Assistance Program On-Call Projects, KDOT	(Statewide) KS	Ongoing		◆		◆	
TransEval-Model Update, East-West Gateway Council of Governments	St. Louis, MO	2014		◆		◆	
NE Kansas Five County Study (Phase I and II), MARC	North East KS	2013		◆		◆	
Gateway Green Light Phase I, St. Charles County	St. Charles, MO	2013	◆		◆		◆
Signal Optimization, Routes 115, 367, and AC, MoDOT	St. Louis, MO	2009	◆		◆		◆
Signal Optimization ,Route 231 366, MoDOT	St. Louis, MO	2013	◆		◆		◆
Hanley Road Corridor Study, St. Louis County	St. Louis, MO	2009	◆	◆	◆		◆

Accessibility

The Parsons Brinckerhoff Team has staff available for assignment that can begin work immediately and they will be committed to the individual agency's project for the amount of time required to meet the project schedule. Our experience with local, county and state agencies across the Midwest provides our team with a detailed understanding of the design and engineering tools necessary for developing traffic improvement plans. Building on our past experience, we are ready to start today. With offices in St. Louis and the Kansas City metropolitan area, our team is extremely accessible on short notice. As evidence to the team's commitment to our clients and their success, we encourage selection panelists to contact our references provided in the past performance table.

Parsons Brinckerhoff Past Performance		
Project Name	Reference	Year Complete
Traffic Engineering On-Call Safety Projects	Brian Gower, Program Manager, (785) 296-1181, Gower@ksdot.org	2015
TransEval Model Development	Lubna Shoaib, Project Manager, (314) 421-4220, Lubna.Shoaib@ewgateway.org	2014
Hanley Road Corridor Study	Stephanie Leon Streeter, Deputy Director Highways/Traffic, (314) 615-8504	2009

Qualifications of Personnel

The Parsons Brinckerhoff Team has been tailored to best meet the needs of Missouri's Local Program and we are committed to bringing fiscally responsible solutions to Missouri's Local Program's challenges. The following are key Parsons Brinckerhoff personnel with demonstrated success in managing federally funded projects for a variety of municipal client and the experience and technical expertise to successfully complete traffic and TEAP projects of all complexities.

Located in St. Louis, Jennifer Pangborn, AICP, will serve as project manager for the Parsons Brinckerhoff Team. She has worked on numerous institutional traffic and transportation impact studies and assessments, and will support traffic modeling and bicycle and pedestrian planning and analysis. She applies her technical background on all projects to merge transportation engineering and planning to deliver successful projects that are practical, buildable, and sustainable. Jennifer continuously approaches her projects in the St. Louis region using the Great Streets objectives and considers how to best plan for all ages, all modes, all users.

Jim Tobaben, PE, will serve as senior advisor and project manager. Jim is based in Parsons Brinckerhoff's Kansas City metropolitan area office. He brings more than 35 years of experience, including time as the former state traffic engineer for KDOT. He is currently serving as principle-in-charge for two on-call contracts in the State of Kansas: KDOT Traffic Engineering On-Call and

KDOT Traffic Engineering Assistance Program On-Call. He is also currently acting as project manager for MoDOT's Rte. 231 and Rte. 366 Signal Optimization Project.

David Church, PE, will serve as the task leader. David is a senior traffic engineer with 22 years of experience. Prior to joining Parsons Brinckerhoff, he spent 13.5 years working for (KDOT in the Bureau of Traffic Engineering. During that time David has conducted many traffic studies, designed and managed traffic signal and safety projects including several urban and rural roundabouts. He is currently serving as the project manager for two KDOT on-call traffic engineering contracts. He was the deputy project manager for the I-70 Polk-Quincy Viaduct Realignment Study, a crash analysis along the I-70 corridor.

Staff	Office Location	Role	Years of Experience
Jennifer Pangborn, AICP	St. Louis, MO	Project Manager	9
Jim Tobaben, PE	Lenexa, KS	Senior Advisor and Project Manager	35
David Church, PE	Lenexa, KS	Task Lead	22
Steve Ruegg, PE	Minneapolis, MN	Travel Demand Modeling	34
Brittany Marron, PE	St. Louis, MO	Project Engineer	8
Jamie Rana, PE, PTOE	St. Louis, MO	Project Engineer	13
Brian Geiger, PE	Lenexa, KS	Project Engineer	5

Familiarity/Capability

Parsons Brinckerhoff has a long history of meeting our clients' goals on projects, whether this is through meeting aggressive schedules, using the latest and most innovative software on a project or the application of cost-efficiency measures to help save construction dollars. Parsons Brinckerhoff has an excellent relationship with local and regional clients, and our extensive experience working with their staffs has provided us the familiarity required to be very efficient throughout the planning and design process. Through our project experience, Parsons Brinckerhoff has become intimately familiar with the processes and requirements on projects with federal oversight. As a planning and design firm that works across the U.S., we work with federal, state, and local clients every day to deliver a wide range of projects types with federal aid that are compliant with federal law. Locally, we have participated in numerous projects for both MoDOT and local public agencies that utilized federal grant money.

Workforce Diversity

Parsons Brinckerhoff believes that achieving diversity is essential to our success. We seek talented people from backgrounds and cultures as rich and varied as the work we do. The St. Louis and Kansas City metropolitan area offices have a diversity policy that embraces a diverse workforce and actively seeks opportunities to employ women and minorities and provide them with leadership opportunities. We routinely exceed workforce and Disadvantaged Business Enterprise (DBE) goals, utilizing a wide range of certified DBE firms from the local community. Our proposed staff for the Traffic Engineering On-Call Contract reflects our commitment to diversity. We will work with local agencies on all projects to ensure that opportunities to expand a local and diverse workforce are fully explored.

Within the St. Louis and Kansas City metropolitan area office, more than 30 percent of our workforce is comprised of women and minorities, with many holding leadership roles.

Summary

The Parsons Brinckerhoff Team has the immediate staff availability today, the relevant technical knowledge, and extensive knowledge of local, state and federal processes to begin work immediately. Parsons Brinckerhoff is eager to continue to serve the communities of Missouri by providing high quality traffic engineering and TEAP services when and where needed. If you have any questions regarding our submittal or would like to discuss it in greater detail, please contact me directly at 314-206-4262 or DeArmond@pbworld.com.

Sincerely,

Parsons Brinckerhoff, Inc.



Dan DeArmond, PE, PTOE

Vice President

St. Louis and Kansas City Area Offices

Parsons Brinckerhoff St. Louis Experience

- ◆ Environmental Planning
- ◆ Master Planning
- ◆ Corridor Planning
- ◆ Corridor Studies
- ◆ Signal Optimization
- ◆ Public Involvement
- ◆ Financial Planning
- ◆ Design & Engineering
- ◆ Architecture & Facility Design
- ◆ Condition Assessment
- ◆ Structural Engineering
- ◆ Mechanical Engineering
- ◆ Electrical Engineering
- ◆ LEED Design
- ◆ Civil Engineering (Road, Bridge, Site)
- ◆ Traffic & Transportation Engineering
- ◆ Intelligent Transportation Systems (ITS)
- ◆ Water Resources Engineering
- ◆ Construction Administration
- ◆ Construction Management
- ◆ Program Management
- ◆ Public Private Partnerships

Parsons Brinckerhoff has a strong presence in Missouri and has supported clients such as MoDOT, and local public agencies in designing and implementing a wide range of projects. Founded in 1945, our St. Louis office has the unique position of collaborating with colleagues in 150 offices on six continents—enabling us to combine global reach with local knowledge.

In St. Louis, our staff of over 50 professionals includes architects and engineers. We serve a wide variety of building and infrastructure markets in both the public sector and private endeavors. We have been proud to offer clients a wide range of planning design, environmental, and construction phase services from our Kansas City metropolitan area office in Lenexa since 2001. Over the last 13 years, the office has expanded to provide a full range of services including: roadway design, traffic engineering, planning, aviation, civil and site design, and water and waste water services.

Contact Information

Dan DeArmond, PE
Vice President
314-206-4262 (office)
314-604-1705 (mobile)
dearmond@pbworld.com

Office Locations

211 North Broadway	16201 West 95 th
Suite 2800	Suite 200
St. Louis, Missouri 63102	Lenexa, Kansas 66219

Firm Overview

Founded in 1885, Parsons Brinckerhoff is one of the oldest continually operating consulting engineering firms and is consistently ranked one of the top transportation consulting firms in the United States. Based on national client feedback in 2014, Roads & Bridges Magazine ranked Parsons Brinckerhoff #1 for roadway/highway design, #1 for mass transit design, #1 for bridge design and #2 for storm water design. Headquartered in New York City, the firm has more than 14,000 employees in 150 offices globally.

Parsons Brinckerhoff provides strategic consulting, planning, engineering, program and construction management, and operations and maintenance services to both public and private sector clients. Key markets include: transportation, power/energy, buildings, mining, water and wastewater, environmental and urban/community development.

Project Experience

Wildwood Trail Phase 3

Wildwood, Missouri

The Wildwood Greenway is an extensive system of trails which provide alternative transportation to all areas of the city, neighboring communities and activity areas. Phase III of this system includes the connection of residential neighborhoods to the overall system of trails.

Parsons Brinckerhoff was selected by the City of Wildwood to prepare final construction drawings, specifications and estimates for a one-mile section of bicycle trail, located within the right-of-way of Missouri State Routes 100 and 109. The trail will be a 10' wide asphalt trail with signage, safety barriers, paint striping and accent plantings. The trail will be designed to ASSHTO standards and be ADA accessible. The profile grades of the trail were designed to match the existing grade where possible to minimize disturbance to the site and reduce construction cost. In areas where steep side slopes were present, reinforced earth segmental retaining walls were used.

The trail was funded with a federal enhancement grant and matching funding from the City of Wildwood.



William Street Streetscape

Columbia, Missouri

Boone Hospital Center (BHC) selected Parsons Brinckerhoff to develop two streets serving their main hospital to make them more visually appealing, safer and equip them to handle the traffic volumes generated by their future growth plans. The streetscape plan was developed to combine design elegance and safety. Parsons Brinckerhoff's landscape architects envisioned the streetscape as a formal entrance gateway that would incorporate planting and architectural features to visually tie the buildings, street and landscape together to create a cohesive campus feel. Parsons Brinckerhoff used 3-D images created with Revit software to visually convey the streetscape design to Boone Hospital and City staff. The images allowed reviewers to quickly understand the design and to see the entire design and its components working together.



I-435 & 87th Street

Lenexa, Kansas

Parsons Brinckerhoff was selected by the City of Lenexa to make geometric improvements to the Southbound I-435 exit ramp to 87th Street and to replace the traffic signals at the intersection. A right turn lane will be added to the exit ramp allowing for two left turn lanes onto eastbound 87th Street. The existing traffic signal system will be replaced with new signals, mast arms, poles, pedestrian signals and poles, emergency vehicle preemption, loop detectors and a NEMA traffic signal controller cabinet.



Project Experience

KDOT Traffic Engineering Assistance Program (TEAP)

Statewide, Kansas

Parsons Brinckerhoff was selected to perform on-call traffic engineering studies through KDOT's Traffic Engineering Assistance Program (TEAP) assigned through KDOT's Bureau of Local Projects (FY 2013 – FY 2015). TEAP Studies that have been assigned/completed include: Douglas County Road 7 Turns; 5th St. / 6th St. and Commercial in Atchison, Kansas; Kiowa County Road Intersections (4); School/ Pedestrian Crossings in Ogden, Kansas; School Zones in Wellsville, KS, Main Street Speed Limit Study in Benton, Kansas and UP Railroad & North Kansas Avenue in Topeka, Kansas. These studies include working with the local unit of government to determine the issues involved with the location, field review, data collection, analysis and development of a "draft" and "final" Traffic Study Report. KDOT recently doubled the amount of funding each year for Parsons Brinckerhoff to perform additional TEAP Studies as a result of our performance and feedback from the local units of government. The trail was funded with a federal enhancement grant and matching funding from the City of Wildwood.



Route 367, AC and 115 Signal Optimization

St. Louis County, Missouri

Parsons Brinckerhoff was responsible for a traffic signal optimization study for a total of 44 traffic signals along three separate corridors in northern St. Louis City and County. The study included traffic data collection, micro simulation modeling, travel time studies, creation of optimized signal timing plans, preliminary and final reports and the field implementation of new signal timings plans into existing state ACTRA system.

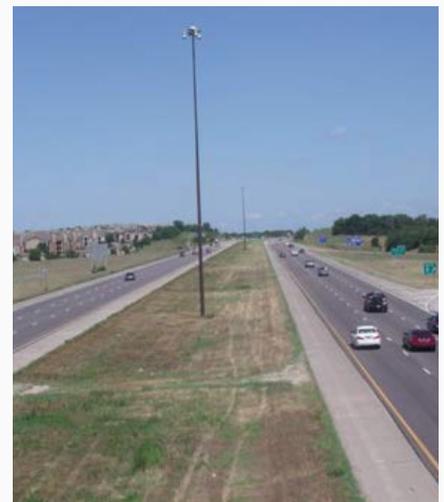
The study was performed for portions of the Route AC, 367 and 115 corridors in MoDOT District 6 in St. Louis County. The development of an existing conditions model was performed in order to establish a baseline for comparison of signal optimization benefits. The study included performing weekday and weekend turning movement counts, intersection data collection, field investigation and traffic modeling for the purpose of the development of complete signal timing and coordination plans.



KDOT Access Management Policy

Statewide, Kansas

Parsons Brinckerhoff was selected to update KDOT's Access Management Policy, which was last performed in 2000. This includes a total replacement of the existing policy, including the latest national research, current references, new language, strategies, graphics, criteria, processes, and forms. Extensive internal stakeholder outreach was performed early in the process involving KDOT personnel at headquarters as well as the six districts. A Project Advisory Committee (PAC) was formed to guide the project internally and an External Focus Group (EFG) was established to obtain feedback from external stakeholders. The Policy was completed in January 2013 and is available for use through KDOT's Access Management website: <http://www.ksdot.org/accessmanagement/>



WHAT WE DO

- ◆ **INSPIRE** the world's best teams to
- ◆ **CREATE** innovative solutions for physical assets that
- ◆ **ENHANCE** our communities for future generations

HOW WE ACHIEVE SUCCESS

- ◆ **INTEGRITY** - We always do what's right
- ◆ **TEAMWORK** - We are better together; we partner with our clients and care for our colleagues
- ◆ **EXCELLENCE** - We share knowledge to solve difficult challenges
- ◆ **RESPECT** - We understand and accept our responsibility to each other, to our community and to our environment



Located in the heart of downtown at One Metropolitan Square, Parsons Brinckerhoff St. Louis has worked in the local community since 1945.

Globally Local

Parsons Brinckerhoff has participated in some of the world's most notable engineering projects, and is currently engaged in large-scale infrastructure programs and smaller community projects throughout the world.

Core Values

We always put our client's needs first. Whether it is a large infrastructure project, or the development of a small sidewalk streetscape for a walkable community, Parsons Brinckerhoff is driven by our core values. Ultimately, our mission is to provide outstanding service with an innovative approach, focusing on quality, cost control and schedule.

Although we periodically review and refine our values as part of our strategic commitment to excellence, the values above are not new. The basic principles above that define who we are and what we stand for were first articulated more than a century ago by our founder, William Barclay Parsons.

Workforce Diversity

Parsons Brinckerhoff believes that achieving workforce diversity is essential to our success. We seek talented people from backgrounds and cultures as rich and varied as the work we do. The St. Louis office has a diversity policy that embraces a diverse workforce and actively seeks opportunities to employ women and minorities and provide them with leadership opportunities. The St. Louis office also has a history of promoting a Science Technology Engineering and Math career path to local high school and college age women and minorities. Examples of this commitment include fundraising towards the Women's Transportation Seminar (WTS) scholarship fund and participating in "Introduce a Student to Engineering Day" during Engineer's Week.

Project Success

Our success on each project begins with a detailed understanding of the project's scope, budget and schedule. Although it may sound basic, this specific understanding-which includes information on the community impacts during and after construction-allows us to provide the right match of resources and experience to deliver the project on time and within budget. We understand the right team is not dictated by numbers of available staff but the right expertise to execute a solid approach, which will exceed our client's goals.