



November 15, 2013

Mary Ann Jacobs
105 W. Capitol, P.O. Box 270
Jefferson City, MO 65102

Re: LPA On-Call Professional Services—Traffic Engineering & TEAP

Dear Selection Committee:

Bartlett & West is excited about the opportunity to provide on-call professional engineering services in the **Traffic Engineering & TEAP** category. Bartlett & West has experience with signals, lighting, signing and pavement marking. The primary support team is conveniently located in Jefferson City. Bartlett & West also has support staff in 12 other offices throughout the Midwest including Lee's Summit, Des Moines and Topeka. We believe that Bartlett & West's experienced personnel and familiarity with traffic engineering, particularly with MoDOT and their Local Public Agency (LPA) partners, make our team an ideal candidate for on-call projects.

Traffic Engineering Expertise

Bartlett & West's Jefferson City office houses engineers very familiar to MoDOT's Traffic Engineering standards. **Herb Bailey, PE** has spent over 40 years working first for MoDOT both as a construction inspector for traffic related items and also as a district design engineer managing the plans production of projects which have signals, lighting, signing and pavement marking. With Bartlett & West for the past 13 years, Herb has managed projects such as the Gateway project, an STP project for the City of Raytown. In addition, Herb designed not only new signal installation but also modifications to upgrade existing signals for emergency vehicles on Jackson County Route 350 in Raytown with the Opticom system. Herb also designed video detection upgrades to existing signalized intersections throughout the City of Raytown. Both LPA projects were with the Kansas City District. Jackson County called on Bartlett & West to upgrade a stop-controlled intersection on Jackson County Route AA to a fully signalized intersection with lighting. The challenging feature of this project was that the signal was to go in as soon as possible but a widening was expected for the future. Therefore, the controller was designed to set back to the anticipated limits of the widening. Jackson County called back in 2011 and requested that Bartlett & West modify the signals for the additional turn lanes, which we were able to accomplish easily since the project had been set up for expansion.



Gateway to the City of Raytown, 63rd Street & Blue Ridge Cutoff - new intersection with decorative traffic and pedestrian signals, colored crosswalks & plaza.

In addition to Herb, Bartlett & West has **Brian Austin, PE, PTOE** and **Brian Armstrong, PE, PTOE** who are traffic engineers in our Topeka office and are available for all types of traffic studies and design. Bartlett & West's engineers are accustomed to working together because our computers and polycom systems are networked throughout the firm. Brian Austin worked on our Greene County I-44 interchange analyzing the traffic turning movements and recommended a turn lane for the B/MM Interchange. We also designed a signal conduit to go along with our lighting conduit in the new bridge with a future signalized ramp intersection in mind. **Jennifer McVey, PE** is also a traffic engineer in our Topeka office and designed the lighting on the Greene County I-44 interchanges. **Bob Gilbert, PE** will provide QA/QC. With Bob's vast wealth of experience designing and reviewing plans in complex urban environments, he gives each project a careful review with a practiced eye. With this team in place, our clients can be assured of a high level of QA/QC with whatever services we provide.

Full Design Services

Another Bartlett & West advantage is that we offer the full range of design services that an on-call roadway project needs. We can handle a project from initial development of mapping, through design, and into construction observation and administration. We generally begin a project by collecting field survey, utilizing our licensed surveyor **Dustin Kaiser, PLS**. Dustin employs the latest surveying technology to efficiently gather our mapping data including a robotic total station and a GPS unit tied to MoDOT's RTK network. This technology allows him to efficiently and accurately gather data that will become the basis of our design. Bartlett & West also owns static and mobile terrestrial LiDAR units that can be utilized to quickly gather data on a complex project in an urban environment.

Once mapping is complete our design team begins laying out the project. Our design staff is accustomed to working on both MoDOT and LPA projects. Through this experience we are familiar with working through the preliminary and right-of-way plan processes before developing final construction drawings. During this design process, Bartlett & West works closely with the client through meetings and phone calls to ensure that we understand the client's needs and goals for the project. In addition to general sidewalk and trail design, Bartlett & West also offers structural design staff specializing in bridge design, and we have designed several roadway bridges on past projects. For instance, we are currently working with the City of Lee's Summit on a box culvert replacement on Murray Road.

LPA Process

Our staff frequently works on both MoDOT and LPA projects administered by MoDOT. This experience of working for MoDOT directly and on their LPA projects, such as Safe Routes to School and Transportation Enhancement projects, allows Bartlett & West to be able to stay on schedule in this complex environment by knowing what submittals MoDOT requires and what their staff expects on each deliverable. We also have a familiarity with the administrative paperwork that is required to help the LPA meet MoDOT requirements

and complete the project. Three of our engineers, **Bob Gilbert**, **Todd Kempker** and **Herb Bailey**, have attended the MoDOT/FHWA Basic Training for LPA Projects and are certified. Bob Gilbert also served on the statewide LPA Strategic Vision Team.

Meeting Schedules and Being Accessible

Bartlett & West is aware that on-call projects often have short schedules and require a quick turnaround on the deliverables, and we believe that fits us well as we have been consistent in getting projects under way and the capability to stay on schedule and meet project deadlines. We are also aware that the scheduled deadlines set by MoDOT for LPA projects are critical to keep the project moving along and not jeopardize funding. We make these deadlines a key priority on all of our projects.

Part of meeting schedules and keeping the project moving is being accessible and responsive to client needs. This is truly a focus for the employee-owners at Bartlett & West. We work closely with our clients to keep their projects moving toward construction and respond quickly when issues arise. For instance, we worked closely with the City of Russellville on an easement for the Safe Routes to School project that put the project schedule and entire construction in jeopardy. One property owner would not sign a very minor easement due to past issues with the City. Bartlett & West responded by working through several requests from the property owner and multiple on-site meetings, and we finally were able to obtain an easement that allowed the project to move forward and have the work in front of the school constructed prior to the start of classes. Similarly, on a Transportation Enhancement project in California, we assisted the City, who was having trouble meeting the project schedule, by taking on all the easement acquisition work and meeting with individual property owners.

Summary

At Bartlett & West, we are proud of our on-time performance when clients call. We also pride ourselves for understanding clients needs, being accessible and responsive, displaying integrity and providing proactive communication. We will provide MoDOT and their partner agencies with a quality product, on-time and on-budget.

Sincerely,



Bob Gilbert, PE
Location Manager/Vice President



Herb Bailey, PE
Project Manager

Bartlett & West

PURSUING INNOVATION, DEVELOPING ENGINEERING AND TECHNOLOGY SOLUTIONS, AND STRENGTHENING OUR COMMUNITIES TOGETHER.



Our employee-owners deliver

engineering and technology solutions to a wide range of public and private clients and have since we opened our doors in 1951. How can Bartlett & West and you solve your challenges together?

With a portfolio of professional solutions—from engineering to landscape architecture, from GIS to information management, from field services to sustainable development—our people bring a total perspective to our clients' challenges.

Everyone at Bartlett & West is committed to giving our clients world-class service and work to deliver our clients' service *and* solutions. We know what our clients want. We asked them. They're looking for clear understanding of their needs. They value accessibility and responsiveness, integrity, quality and proactive communication from their professional services partners. These are values our employee-owners practice every day.

Our firm has grown steadily from a small two-person partnership in 1951 into the current multi-disciplined firm of over 350. A rich mix of professional, technical, administrative and support staff provides professional services to governmental agencies, municipalities, private industry and individual clients. Year after year, Bartlett & West is ranked among the top design firms by industry trade publication ENR (Engineering News-Record).

Our Purpose

To lead our communities to a better tomorrow.

Our Values

Earning Trust—through doing what is right even when doing so is difficult.

Delivering Quality—through pride in our work and an attitude of continuous improvement.

Serving Others—through caring for our clients, our community, and each other.

Crafting
engineering
and
technology
solutions
together

Our clients access the full range of Bartlett & West services through our fully-integrated network of offices. Through this network of resources, each office is empowered to deliver engineering and technology solutions to meet our clients' needs.

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Energy Industry

Bartlett & West professionals serve the energy industry with a deep toolbox of solutions.

- Pipeline routing and design
- Facility & site design and planning
- Topographic, property, and legal surveys
- As-built surveying and recordation
- Easement and land acquisition services
- Water intake, distribution, and storage design
- Water treatment plants and pump station design
- Waste water disposal
- Construction observation & inspection/testing
- GIS based data management
- Regulatory and permitting services
- Environmental compliance

GIS & Information Management

Our information specialists deliver a full range of spatial technology services to exacting standards.

- Geographic Information Systems (GIS) needs assessment, development & implementation
- Web hosting
- Application development
- Map, data and document integration
- Map plotting & production
- Document imaging
- Data loading and reconciliation

Landscape Architecture

Bartlett & West landscape architects enhance the built environment.

- Land use master planning
- Parks, trails & greenways
- Environmentally sensitive design
- Streetscapes and plazas
- Healing gardens & rain gardens
- Planting selection and irrigation design
- 3-D color renderings and animation
- LEED Accredited Professionals
- Public information programs
- Design charrettes & group consensus building

Mechanical, Electrical & Plumbing Design

The MEP professionals at Bartlett & West deliver a broad spectrum of building services. .

- Plumbing design: waste, vent, water compressed air piping
- HVAC design
- Lighting design: building, roadway, parking lot, landscape lighting

- Power distribution design
- Emergency power generation
- Uninterrupted power systems
- Utility power design
- LEED Accredited Professionals

Rail Services

Bartlett & West rail experts provide a wide range of services to their clients.

- Full-service engineering
- Design/Build
- Positive Train Control data/change management
- Track chart automation
- Enterprise GIS/application development
- Real estate GIS implementation
- Property acquisition
- LiDAR for design, as-builts, and clearances
- Mobile application development
- Construction management

Right-of-Way

Bartlett & West provides support to all our client sectors with sophisticated, proprietary technology and systems to manage survey permissions, easements, land acquisitions, permitting, and records management.

- GIS database of projects
- Existing right-of-way, plat and title research
- Environmental impact studies
- Easement negotiation
- Lease/option agreements negotiation
- Land purchase negotiation
- Land owner research and meetings
- Acquisition documents
- Strip maps
- Construction staking
- Project/exhibit map preparation
- Site locations
- Taxation records
- Vesting deeds
- Survey permissions

Roads & Highways

Our transportation engineers provide safety and efficiency for the motoring public.

- Corridor studies
- Road and highway design
- Interchanges and roundabouts
- Traffic signal improvements
- Stormwater management
- Bridge structural analysis and design
- Hydraulic and hydrologic modeling
- Traffic control analysis
- Right-of-way and legal descriptions
- Landscape architectural design and erosion control
- Pedestrian and bicycle path design

- Lighting
- Construction sequencing
- Public information programs

Site Planning

Our site specialists support developers, architects, businesses, and institutions in navigating planning, zoning, permitting, drainage, paving, and building considerations of a particular location.

- Land use planning
- Platting
- Zoning and permitting
- Feasibility studies
- Drainage studies
- Site plans
- Grading design
- Utilities design and coordination
- Traffic impact analysis
- Construction administration
- LEED Accredited Professionals

Stormwater Management

We work with the natural environment to reduce erosion and maintain water quality.

- Watershed studies
- Drainage design
- Hydraulic and hydrologic modeling
- Flood control
- Channel stabilization
- Environmentally sensitive solutions
- LEED Accredited Professionals

Strategic Planning

Bartlett & West planning professionals use a unique strategic planning process to help clients identify and achieve their future vision.

- Proprietary electronic planning tool
- Detailed SWOT analysis
- Success driver orientation
- Focused gap analysis
- Proven visioning process
- Fully engaged planning team
- Practical, actionable plan

Structural Engineering

Providing the necessary analysis and design to support their client's vision is the goal of our structural experts.

- Structural investigations and reports
- Commercial/industrial/educational/institutional design
- Specialty structures and historical renovations
- Concrete, steel, wood, and aluminum structures

Survey & Construction Observation

Field professionals supply their clients with critical survey data and construction observation services.

- Surveys
- Geographic Information Systems (GIS) and Global Positioning System (GPS) services
- Platting and Construction staking
- Field construction observation and coordination
- Materials testing
- Construction administration
- Utilities coordination
- Construction quality control services

Sustainable Design

Bartlett & West LEED Accredited Professionals are meeting today's needs while conserving for tomorrow.

- LEED Accredited Professionals
- Livable communities planning
- Lifecycle analysis
- Energy-efficient design
- Green infrastructure design
- Sustainability reporting
- Public information programs

Wastewater Collection & Treatment

Bartlett & West wastewater experts help communities as well as industries protect the environment and manage their water quality.

- Wastewater studies
- System planning and facilities design
- Sewers and pump stations
- Treatment plants
- Residuals management
- Regulatory compliance strategies and Permitting
- Public information programs

Water Supply, Treatment & Distribution

Bartlett & West water specialists help communities provide the basic building block of life.

- Municipal, regional, rural and wholesale systems
- Preliminary, feasibility, and design reports
- Rate analysis, studies, reports and funding application aid
- Short- and long-range system planning
- Regulatory compliance strategies and planning
- Water source—well, intake, purchase contracts
- Water treatment design and operational analysis
- System analysis, design, and modeling including piping, pump stations, controls, and storage
- Construction phase engineering services
- Federal, state and local permitting