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ABNA's Construction Management Dept.

November 15, 2013

Ms. MaryAnn Jacobs, Intermediate Planning Technician
MoDOT Central Office
maryann.jacobs@modot.mo.gov

Dear Ms. Jacobs:

Letter of Interest for On-Call Professional Services related to LPA Construction Inspection

Dear Ms. Jacobs:

ABNA is interested in providing professional services under your **LPA On-Call for Construction Inspection** program. We are confident that ABNA is the right firm available at the right time due to our relevant experience, staff size, credentials, and our AASHTO Accredited Materials Testing Laboratory. ABNA offers a Cohesive Team, with available Capacity, and a **Project Manager, Ray Bailey PE, RG, PhD**, with Experience on wide variety of projects and is committed to Client Delight.

Why Chose ABNA?

ABNA can deliver a quality finished product we've been privileged to work on complex transportation engineering projects of all sizes since 1994, which includes our work as a subconsultant for MoDOT's *The New I-64* Design/Build project in St. Louis. Our proficiency with MicroStation, GEOPAK, and MoDOT's Engineering Policy Guide coupled with our firm's excellent reputation for delivering projects on time and within budget, makes our firm ideally suited for this program. ABNA has a solid transportation engineering portfolio for all elements of transportation infrastructure for both MoDOT and Missouri's Local Public Agencies. ABNA has managed projects for various agencies, adding project value through cost efficient means and ABNA can rapidly mobilize a project team once a work order is received.

Workforce Diversity

ABNA's approach to execute the needs for your project will validate the fact that successful project accomplishment perfectly coincides with diversity. ABNA is MoDOT qualified and certified as an M/W/DBE. Our staff reflects members of this community who are experienced engineers, surveyors and support professionals from every part of the US and over 10 other countries. In addition, ABNA works with the diverse youth of our community and encourages them to pursue an education in science and technology. Further we actively recruit from all qualified professionals within our community, thus reflecting the region in which we live and work. MoDOT encourages qualified DBE firms to submit letters of interest for categories in which they are qualified; hence for this program ABNA is submitting as a DBE prime consultant.

General Experience of Firm

Construction Management – ABNA has recently completed the Construction Management (CM) for Franklin County's LPA project to replace the Herbst Road Bridge. For this project ABNA provided Resident Engineering, Construction Inspection and Materials Inspection services which included processing all LPA required documents. ABNA's latest CM services include the City of St. Louis' Land Clearance for Redevelopment Authority (LCRA) for the Streetscaping of Washington Avenue from 7th Street to Memorial Drive.

Past Performance

Below is a brief description of ABNA's extensive experience in transportation project delivery including those receiving federal funding:

Mapaville–Hematite Road Bridge, Jefferson County: ABNA recently completed plans, specifications & construction cost estimates for this LPA bridge replacement project. ABNA served as a single source providing all design and survey for the project. Stephen Alsbury was the Project Manager as well as the lead Project Engineer overseeing this project.

I-64 Design/Build: among the many responsibilities ABNA completed for this recently reconstructed urban interstate, ABNA provided structural design for the I-170 Flyways and 6 bridges, in addition to construction management providing quality assurance, field observations, document control, materials testing and laboratory testing.

Route I-70 in St. Clair County, IL: For this \$80 million project, ABNA performed materials testing, field observations, and document control. ABNA provide construction quality assurance.

Route 367 in St. Louis County: ABNA provided phase III engineering services that included construction quality assurance, field observations, materials testing, and document control.

Blanchette Bridge: ABNA led the existing condition structural inspection of this bridge to support the design of its retrofit. ABNA is also currently leading the construction management services associated with this retrofit.

Carrie Avenue in St. Louis: For the Carrie Avenue Improvement Project, among ABNA responsibilities were material testing and documentation with a construction cost of \$260,000.

Grace Drive in Arnold, MO: ABNA performed material testing including field and laboratory concrete testing. ABNA provided reports preparation and pavement core for Grace Drive.

Route I-270 Chain of Rocks Canal Bridge in St. Clair County, IL: For this \$104 million project, entailed engineering analysis to determine if rehabilitation or the construction of a new structure was warranted. ABNA provided material testing and construction quality assurance for the analysis.

Qualifications of Personnel

Our Project Manager, **Ray Bailey PE, RG, PhD** has vast experience with geotechnical and CM projects. For each work assignment he will evaluate the project's needs and match it with our staff's talent to form a project specific team best suited for each work order.

Staff ABNA's Construction Management Department consists of 4 Geologists/Geotechnical Engineer professionals, 6 certified construction & materials inspectors and an AASHTO/MoDOT/Corps certified laboratory.

Raymond Bailey PE, RG, PhD has 37 years of experience performing and supervising Geotechnical Investigations, and serving as the owner's representative overseeing construction projects. Some of his experience includes working on bridge, tunnel, and retaining wall projects for MoDOT, IDOT and the Illinois Tollway. He was the Construction Services Manager for MoDOT's Route 364, Construction Services Manager for the Illinois approaches to the new Mississippi River Bridge, and Project Manager for inspection of the Blanchette Memorial Bridge, and lead QA control for the I-64 Design/Build. In addition, his recent projects include working as

a subconsultant on the New Mississippi River Bridge (MRB) approach, the Geotechnical Inspection Lead on the I-70 EB Flyover to I-64 and on the I-70 WB Flyover from I-64. Both Flyovers are also associated with the New MRB in St. Louis. He is currently service as the QA consultant on the Boone Bridge Design/Build project.

Richard Schafer will serve as the Resident Inspector. It will be his duty to be on site every day construction operations are underway and document daily activity and progress as well as collect required information such as labor rates. Richard will also be responsible for materials testing and sampling. Field test include soil compaction testing, concrete sampling and testing, and asphalt coring. Richard holds 8 MoDOT materials testing certifications in addition to the OSHA 10-hour training and ACI field certification. Concrete cylinders will be tested in ABNA's AASHTO accredited laboratory by **Robert Schaedler**. Robert holds 4 ACI and 11 MoDOT materials testing certifications including soils, aggregates, concrete and asphalt. Robert has 24 years' experience in both field inspections and laboratory testing. Robert recently completed QA services on the Poplar St. Bridge retrofit, in addition to Materials Manager for I-64 Design/Build and IL Route 157 Widening.

Familiarity/Capability

ABNA was founded in 1994 by two former DOT engineers and has continued to provide services to State DOTs throughout the mid-west. Thus ABNA brings 19-years of construction inspection experience to each project. With a Missouri staff of 65, we are confident that we have the administrative, personnel, and technological capability to deliver a quality project within the time frame needed.

Accessibility

ABNA's office is located in Missouri along with all personnel that will be assigned to these projects, making it very convenient and cost efficient for field checks as any part of the state is easily accessible by car. ABNA embraces technology and utilizes cloud computing and voice over IP telecommunications for the feel of being in the cubical next door. Each of ABNA's clients is provided a backup ABNA contact who can fill-in should the project manager ever be unavailable. ABNA is committed to delighting our clients with quality work, utilizing innovate methods for effective project management and being responsive.

Commitment

ABNA's Project Manage, **Raymond Bailey PE, RG, PhD** has worked on numerous construction inspection projects. His commitment, which is also equally shared by ABNA's Principal, **Abe Adewale PE**, and the other team members that will be assigned to this project, will ensure that outstanding services are provided.

We look forward to continuing our positive and long-term working relationship with MoDOT and extending this relationship with Missouri's Local Public Agencies. Please don't hesitate to call upon us should you have questions or need clarifications.

Sincerely,

A handwritten signature in blue ink that reads "wale" over "Abe".

Abe Adewale PE
Firm Principal
Extension 1101

ABNA Engineering, Inc. founded in 1994, has grown to over 70 employees and is consistently ranked among the top 25 Engineering Firms by the St. Louis Business Journal (2010-2011). ABNA provides **Engineering Design** Services for **Transportation** infrastructure including **Structural** design, **Water Wastewater** systems, and other civil facilities such as educational and healthcare. Additionally, ABNA provides **Surveying, Geotech, Construction Management, Inspection, Materials Testing, Planning/GIS Services** and **Construction Operations**.

ABNA is proud of its planning & design service provided for the Jefferson National Expansion Memorial's Arch Grounds improvements which included a Land Bridge (Lid) over I-70. Also note our 3D High Definition LiDAR services provided for the Delmar Loop Trolley Project. Other significant projects include the High Speed Rail between Chicago and St. Louis, Clayton School District Improvements, Blanchette Bridge Rehabilitation and the Central Business District Streetscape Improvements. Our Construction Management Department continues to offer clients key management services as the owner's representative overseeing construction projects on many federally funded projects such as Franklin County Missouri's Herbst Road Bridge and non-federally funded projects such as the Missouri Botanical Garden's Shaw Nature Reserve.

This experience, our commitment to using innovating approaches and our vast transportation knowledge qualifies ABNA to provide our clients unprecedented professional services.

Surveying

ABNA has supported large and small projects alike by providing survey technicians to perform a number of survey activities such as route surveys, topographic surveys, cross-sections and profiles, and establishing existing, proposed centerline alignments, record research, boundary surveys and adjustments, plotting collected field information, establishing 1st and 2nd order controls, right-of-way monuments, land use determination, complex construction staking, layout and as-builts. ABNA's survey department consists of four survey crews, a field manager, a survey research technician, the survey manager and three additional licensed surveyors. ABNA employs a wide array of survey equipment, which enables the expeditious completion of projects. These instruments include five full Trimble GPS units, five Nikon Total Station Units equipped with the latest TDS data Collectors, digital levels and a variety of other conventional survey equipment. Additionally, ABNA's survey staff have extensive experience in the use of state of the art software such as MicroStation, AutoCAD, GEOPAK, MapInfo, Manifold, STAR*NET TDS Survey Link, and Trimble Geomatics Office. With 5 survey crews, ABNA can rapidly mobilize once work orders are received.



SURVEYING EXPERIENCE

Sample ABNA experience includes MoDOT's Route I-44 Meramec River Bridges, the Illinois Tollway's I-90/Lee Street Interchange, MoDOT Rte. 115 (Natural Bridge Road) Great Streets Project, City of St. Louis' North & South Broadway Streetscaping, several St. Louis Ward Improvement

Projects, Metro’s St. Clair County MetroLink Extension, IDOT’s I-270 over Chain of Rocks Canal Bridge replacement project, and the MetroLink Cross county Extension.

Transportation Engineering

We offer many transportation related services from trails and sidewalk through Interstate highway design. Services provided include:

- Writing grant and TIP applications
- Planning and Studies
- Obtaining Environmental Permits
- Roadway & Drainage Design
- Traffic Signal Design
- Lighting Design
- Estimating
- Completing Bid Documents



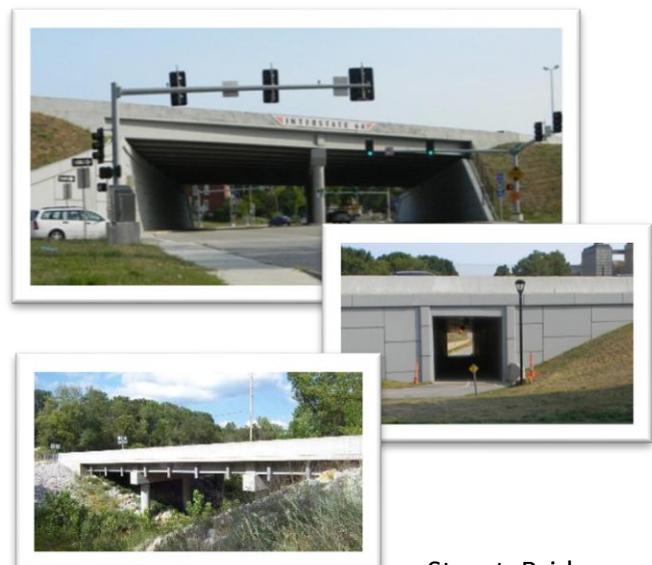
TRANSPORTATION EXPERIENCE

In the last several years, ABNA has had the opportunity to work on numerous federally funded roadway projects including the Jefferson National Expansion Memorial’s Park over the Highway (I-70 Lid), Missouri’s Rte. 115 (Natural Bridge Road) Great Streets Project, The City of St. Louis’ Washington Ave., Phase 3 Streetscape Project and their Central Business District Streetscape Project, MoDOT New I-64 Design/Build, the New Mississippi River Bridge, MetroLink, Illinois Route 3, the Lindbergh Tunnel, and reconstruction of the I-90/Lee Street Interchange for the Illinois Tollway.

Non-roadway projects include the Delmar Loop Trolley, several projects associated with the Chicago to St. Louis High-Speed Rail, and various airport, and trail projects.

Structural Engineering

One of ABNA’s largest groups is the Structural Engineering Department. Their experience includes design of all types of roadway structures, buildings, parking facilities, specialty foundations, pump stations, flood walls, retaining walls, gates, box culverts, dams, walled channels, drop structures and energy dissipaters. In addition to design, ABNA provides structural inspections of bridges and tunnels as well as load ratings.



STRUCTURAL EXPERIENCE

Some of ABNA recent projects include the Lee over I-90 for the Illinois Tollway, subconsultant MoDOT’s Poplar Street Bridge Slide, Poplar Street Approach Ramps, Walnut Street Bridge over

Street Bridge support for

I-70, Land Bridge over I-70, and the Pine Street Bridge over I-70, Route 141 Bridge over Creve Coeur Creek, the I-70 Blanchette Memorial Bridge over the Missouri River and several bridges and pedestrian tunnels associated with MoDOT *The New I-64* Design/Build project in St. Louis. ABNA was also selected for 4 bridge replacement projects as part of MoDOT's Safe & Sound 800 bridge program. Those bridges were Rte. TT Bridge over Slough Creek in Saline County, Rte. M over Bridge Creek in Carroll County, Rte. W over Moniteau Creel in Howard County, and Rte. FE over Edmondson Creek in Saline County. Some of our local agency projects include Jefferson Counties Mapaville-Hematite Bridge over Little Creek Tributary, Wilson Hollow Bridge over a Tributary to the Big River and specialty foundation design for the City of St. Louis' Washington Avenue, Phase 3 Streetscape project and Kiener Plaza.

Construction Management

We offer many construction related services including estimating, value engineering, construction staking, testing for plumbness of steel and forms, concrete, soil & asphalt testing, project inspection and field engineering. We can also provide support for scheduling and QA/QC documentation. ABNA's Construction Services, Construction Management and Engineering staff includes experienced civil engineers and geologists, NBIS, in addition to technical support personnel. Services provided include:

- Resident Engineering
- Scheduling
- Estimating
- In-place density tests on compacted fill material
- In-place density tests on asphalt
- Field test of concrete and casting
- In-place density tests on asphalt
- Lab compression testing of concrete cylinders in accordance with ASTM Procedures
- Testing and reporting
- Trimming of irregular client cast cylinders to meet ASTM requirements (only if required)
- Atterberg limits determination
- Marshall Stab. & Flow (ASTM D 1559)
- Extraction and gradation (ASTM D 2172)
- Bulk specific gravity
- Obtaining of pavement core samples



CONSTRUCTION MANAGEMENT EXPERIENCE

ABNA has been fortunate to have had the opportunity to work on numerous challenging federally funded projects such as MoDOT's Boone Bridge Design/Build, The New Mississippi River Bridge, MoDOT New I-64 Design/Build, IDOT's I-55/Route 59 Interchange, and several MetroLink projects such as the Eads Bridge



Retrofit and the Cross County Extension. ABNA recently complete construction management services for Franklin County's Herbst Road Bridge replacement. On this project ABNA was the prime consultant and performed all LPA construction management duties from Resident Engineer thru laboratory material testing. ABNA has also been selected by the City of St. Louis for full construction management on their Washington Avenue Streetscaping, Phase 3 project.