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Kenny Voss, PE
Local Program Administrator
Missouri Department of Transportation
By e-mail to: MaryAnn.Jacobs@modot.mo.gov

RE: On-Call Roadway Design Services

Dear Kenny,

At Affinis our focus is on engineering ways to make your life easier. In a holistic sense, our transportation professionals have a passion for making life easier and safer for transportation system users. Our roadway engineering team is well versed at doing just that - from designing a street widening to a complete street reconstruction, recommending improvements and preparing construction documents for those improvements that follow the LPA guidelines and procedures. We are ready and available to provide the various services required as your on-call roadway engineering consultant.

GENERAL EXPERIENCE OF THE FIRM

Located in the Kansas City Metropolitan Area, Affinis is a civil engineering firm committed to excellence, collaboration, servant leadership, and trustworthiness. Our staff of 26 co-workers includes 10 Professional Engineers (PE) with experience in roadway engineering with two who are also professional traffic operations engineers (PTOE). Together we have over 180 years of experience in roadway engineering.

Affinis is a partner that provides the expertise, resources, and flexibility to perform when you call. Whether you need a full project team or one or two experienced staffers to supplement your team, we are ready to fulfill your expectations. Affinis is an on-call partner who makes your job easier and who can complete exceptional work without hand-holding. With a wealth of Local Public Agencies (LPA) projects and other relevant experience, our team has the expertise and practical knowledge to quickly analyze and fulfill your needs, saving your staff time and hassle.

PAST PERFORMANCE

We offer significant expertise on roadway design projects, including an intimate knowledge of the LPA process and procedures. These efforts also demonstrate the deep responsibility we feel to serving as responsible stewards of your investment by delivering on-time, on-budget projects.

Liberty Drive from Ridge Avenue to Mill Street - Liberty, Missouri - Affinis is currently designing improvements to Liberty Drive from South Ridge Avenue to West Mill Street. The City is using Federal STP funding and the project is being administered through Missouri Department of Transportation's (MoDOT) Local Public Authority (LPA) program. The project involves reconstructing and milling and overlaying the pavement; adding or replacing curb and gutter; adding or replacing sidewalk; installation of an enclosed storm sewer system; upgrading the water main and services; and replacing and rehabilitating sanitary sewer lines and services. Affinis evaluated the existing pavement and determined that the majority of it could be milled and overlaid to extend the pavement life and reduce project cost, leaving only one section of the roadway to be reconstructed. Improving pedestrian and bicyclist safety is one of the goals for this project. These improvements included a dedicated bicycle lane and providing ADA ramps and crosswalks at intersections. Sidewalks will be continuous from South Ridge to West Mill Street. Affinis's familiarity with MoDOT's LPA processes facilitated the design and project progress. The team is able to create a set of plans, specifications, and easements to meet MoDOT's requirements and deliver a project that accomplishes the city's goals.

“At the City of Overland Park, we set the bar high for our consultants to meet our standard of excellence. For the past 10 years, Affinis continually provides us exceptional plans that ensure accurate bidding that saves time and money. As a result, Affinis earns our repeat business.”

-Doug Brown, PE, Director Public Works, Overland Park, Kansas

Business M-7 Improvements from Route 7 to Route 58 - Pleasant Hill, Missouri - This project was designed following MoDOT's LPA requirements and resurfaced 0.8-miles of Business M-7. Along with the resurfacing, and to maintain a pedestrian access route, our team designed the reconstruction of all the curb ramps along Business M-7 and the replacement of deteriorated sidewalks to meet the requirements of the July 2011 Public Right-of-Way Accessibility Guidelines (PROWAG). The project also included design of a parking area delineation and curb and gutter replacement.

“Affinis makes my life easier by putting their expert knowledge of the MoDOT LPA process to work for us to keep our projects running smoothly.”

**-Bob Kee, Public Works Director,
City of Pleasant Hill, Missouri**

Botts Road from 149th Street to 135th Street - Grandview, Missouri - Affinis designed improvements to more than a half-mile of Botts Road. This arterial improvement project was funded in part by the Surface Transportation Program (STP) administered by the Missouri Department of Transportation (MoDOT). The project widened the existing 2-lane, open ditch road to a 3-lane section with an enclosed drainage system. Botts Road serves both industrial and residential properties so maintaining access to all the properties during construction is a critical item. Botts Road is a designated truck route for the city. Our design professionals completed a traffic control and construction sequencing plan that limited road closures and maintained truck traffic throughout construction. Our design team provided topographic surveys, property descriptions for property acquisition, roadway and drainage design, plan preparation, and bidding assistance.

Wolf Creek Parkway from 155th Street & 158th Street Improvements - Basehor, Kansas - The city applied for and received KDOT Corridor Management funding to construct a three-lane collector between 158th Street and 155th Street, north of US 24/40 Highway. The new roadway is 2,000 feet long, improvements consist of two 11-foot through lanes and an 11-foot center turn lane. The asphalt pavement is flanked on both sides by concrete curb and gutter and 5-foot wide concrete sidewalks. Affinis was already working with the City of Basehor on the Wolf Creek Parkway (158th Street to 155th Street) improvements when the City applied for and received KDOT Corridor Management funding to widen 155th Street and 158th Street from US 24/40 Highway to north of Wolf Creek Parkway. We were able to offer the City savings by designing the projects to bid as one package at the same time. 155th and 158th Streets are classified as collector/arterials with traffic signals at US 24/40 Highway. The improvements include adding left turn lanes at Wolf Creek Parkway and implementing access management strategies, including a raised median, to improve vehicular and pedestrian safety. On 155th Street, a raised median will restrict left turns and provide a protected turn bay for vehicles. A pedestrian crossing will also be constructed at the Wolf Creek Parkway/155th Street intersection.

QUALIFICATIONS OF PERSONNEL

Our team has extensive technical expertise and applicable knowledge. With our familiarity with MoDOT procedures, we can skip the learning curve and focus on working together, sharing ideas, and developing practical solutions.

Mike McKenna, PE, PTOE - Project Manager - Mike McKenna serves as Affinis's senior traffic engineer. Before entering private practice, Mike worked nine years with the Kansas Department of Transportation. His more than 20 years of professional experience includes work in the fields of traffic engineering, Intelligent Transportation Systems (ITS), roadway design, and construction engineering.

Linda Rottinghaus, PE, Project Engineer - After working at MoDOT for six years, Linda joined Affinis and has over 20 years of experience in highway, municipal street design, and traffic design. Linda is also very familiar with MoDOT's LPA process. She currently serves on MoDOT's LPA Advisory Committee as co-chair and has been designing and actively involved in LPA projects since 1997. She will be the lead roadway designer on the on-call projects and will be a resource for managing the LPA process.

Ryan Fleming, PE - Project Engineer - Ryan joined Affinis in 2004, bringing with him seven years of design experience in municipal street improvements. Ryan has been extensively involved in LPA projects that are administered through KDOT. His commitment to identifying clients' needs and fulfilling expectations fits well with our business philosophy and brings an added level of confidence to our clients.

Les Hamilton, PE, PLS, Quality Assurance/Quality Control - With more than 30 years of experience including managing LPA projects, Les brings invaluable expertise in reviewing plans for accuracy, constructability, and adhering to MoDOT's LPA processes.

Kurt Rotering, PE, PTOE - Project Engineer - Kurt brings over six years of ITS and traffic engineering experience to the team. Representative assignments include signal, detection, wireless communication, power systems, and utility design. Kurt will assist with design and plan preparation, field review, and utility coordination for the team.

Robert Ubben, PLS - Survey Manager - As survey manager Robert oversees our field crews and is responsible for all survey activities, including design surveys, property surveys, and property descriptions.

FAMILIARITY/CAPABILITY

Our team has a wealth of knowledge in roadway engineering to offer MoDOT. The projects listed above represent a small number of the total projects our team has completed. We view ourselves as an extension of your design staff to help you successfully complete your responsibilities. In addition to our team members we have the latest technology to deliver a construction set of plans with 3D modeling to assist the contractor during construction. We continually attend training opportunities to provide our clients the best solutions available.

ACCESSIBILITY

As mentioned, Affinis is located in the Kansas City metropolitan area with easy access to I-435. Our team can reach nearly all possible project locations within the state in about six hours. One of our strengths as a small business is our ability to be more flexible and respond quicker than some of our larger competitors.

We understand the importance of treating your infrastructure as if we were spending our own money. We believe this philosophy coupled with our wealth of expertise in roadway design, commitment to making your life easier, and an enthusiasm for transportation engineering will empower our co-workers to make the best decisions on your behalf. Thank you for your consideration and we look forward to the chance to work together.

For the team,



Mike McKenna, PE, PTOE
Principal

“Affinis’s staff worked closely with MoDOT in focusing on practical design consideration throughout the development of I-470/ US 50 Interchange improvements in Lee’s Summit, Missouri. The entire Affinis team was professional, proactive, responsive and experienced in providing services that helped us meet our goals and still keep a tight rein on our budget.”

-Rick Orr, PE , Project Manager,
Missouri Department of Transportation

About Affinis

Our approach to making our clients' lives easier starts with **project management based on our mission to build long-lasting relationships with clients by listening, learning, delivering and celebrating**. At Affinis, project management is more than just delivering a project on time and under budget; it's about understanding your challenges, communicating and collaborating with you while we explore solutions, and striving to achieve higher levels of service and satisfaction for our clients. We celebrate our individual project accomplishments, but more importantly we celebrate relationships we develop along the way. Our **high ratio of repeat clients** speaks to the need of our philosophy in the marketplace and to our success in living it.

Over the years, we have learned the importance of tailoring each approach to meet a project's unique needs. A single approach cannot be applied to all of types of projects. Each project has its own challenges and circumstances. However, our approach to projects is based on **four cornerstones of project management:**

- ✓ Communication, collaboration and coordination
- ✓ Attention to detail
- ✓ Schedule and budget
- ✓ Quality reviews

Our approach enables buy-in of key stakeholders; development of easily maintained and constructible solutions; and commitment to schedule and budget. In a world in which customer service is less important, Affinis Corp is staking its future on building relationships with clients which results in exceptional customer service. As a matter of fact, *Affinis means relationship in Latin.*

OUR MISSION ...

To build long-lasting relationships with co-workers, clients and colleagues by listening, learning, delivering and celebrating.

We serve our clients in the following areas:

- ▶ Infrastructure Planning & Design
- ▶ Civil/Site Planning & Design
- ▶ Water Resources Analysis & Design
- ▶ Levee & Dam Assessment Analysis & Design
- ▶ Sustainable Design & Green Solutions
- ▶ Surveying
- ▶ Traffic Engineering
- ▶ Consulting Services
- ▶ Construction Observation and Administration

OUR VALUES...

- ▶ **Balance** - We embrace the importance and worth of promoting a balance between work and personal life.
- ▶ **Collaboration** - We cultivate productive and fulfilling collaboration among co-workers, clients and colleagues.
- ▶ **Excellence** - We are committed to employing the best, fulfilling expectations and providing optimal solutions.
- ▶ **Servant Leadership** - We selflessly serve others.
- ▶ **Trustworthiness** - We are committed to establishing trust by being honest in all our relationships. Our actions, both public and private, match our words.



“We always like to think of our consultants as extensions of our in-house team. Rarely are we made to feel that the goals and direction of the consultant are genuinely parallel to our own. Affinis has succeeded in doing that.”

- Scott Crain, PE
Blue Valley School District

Quality Reviews

We know design plans don't exist in a vacuum, they can be the key to a successful construction project. We have an established quality control procedure to help maintain our high quality standards. Each project is assigned a quality assurance manager (QAM), an experienced engineer who is not involved in the day-to-day design process. The QAM reviews plans for accuracy and constructability. We have found that having an independent review of the plans helps us find potential deficiencies overlooked by staff working directly on the project.

This focus on constructability saves our clients time and money in the field. Below is a chart of our recent change order history.

“When it comes to consultant produced plans, Affinis would rate at the top of the list. Their plan accuracy reduces construction change orders resulting in lower total project costs.”

- Mark Dombroski,
O'Donnell & Sons Construction

Project and Location	Bid	Percent of Change Orders	LPA Project
ARRA Sidewalk Improvements - Cleveland, Missouri	\$132,278	-0.02%	✓
Hyde Park Improvements - Hutchinson, Kansas	\$1,741,308	-4.33%	
Botts Road Improvements - Grandview, Missouri	\$979,947	1.00%	✓
Walnut Street Improvements - Independence, Missouri	\$696,701	-0.67%	✓
SW Third Street - Lee's Summit, Missouri	\$6,105,325	4.31%	
Blackwell Road - Lee's Summit, Missouri	\$2,800,000	-2.46%	
Langsford Road - Lee's Summit, Missouri	\$4,500,000	-0.02%	✓
Route 1 ADA Improvements - MoDOT	\$1,219,949	12.55%*	✓
Route 169 ADA Improvements - MoDOT	\$1,116,659	1.54%	✓
Business 7 - Signals (Country Club Drive) - Pleasant Hill, Missouri	\$193,602	-0.30%	✓
Business 7 Improvements - Pleasant Hill, Missouri	\$525,618	0.44%	✓
Blue Ridge Sidewalk Improvements - Raytown, Missouri	\$514,488	-9.27%	✓
Residential Streets Group III (South) 2010, Merriam, Kansas	\$716,715	-9.13%	
Residential Streets Group III (North) 2012, Merriam, Kansas	\$954,747	-8.00%	
Antioch Road Improvements (151st - 167th), Overland Park, Kansas	\$13,600,000	-4.68%	✓
College Boulevard Improvements (US-69 - Pflumm) - Overland Park, Kansas	\$8,400,000	13.43%*	✓
Metcalf Avenue Improvements (99th-103rd) - Overland Park, Kansas	\$8,700,000	2.25%	✓
2012 CDBG Neighborhood Street Reconstruction - Overland Park, Kansas	\$1,596,465	-0.80%	

*Client initiated change orders.