



November 15, 2013

Mr. Kenny Voss, P.E., Local Program Administrator  
Missouri Department of Transportation  
PO Box 270  
Jefferson City, Missouri 65102  
ATTN: Mary Ann Jacobs

**RE: Letter of Interest  
Local Public Agency (LPA) / Trails & Sidewalks**

Dear Mr. Voss:

Crawford, Murphy & Tilly, Inc. (CMT) is very interested in becoming part of Missouri's LPA team of consultants to provide professional engineering for Trails & Sidewalks. Our reputation for providing quality deliverables related to these green design projects while incorporating cost-efficiency and innovativeness has assisted our municipal clients' ability to best improve their infrastructure more cost-effectively.

### **PREQUALIFICATION**

CMT has the prequalification requirements and is currently prequalified as follows:

- Federal Aid Basic Training January 1, 2015
- MoDOT E-Verify August 12, 2014
- Financial Prequalification August 29, 2014

### **WORKFORCE DIVERSITY**

CMT strives for workforce diversity and promotes diversity in all facets of our business, including LPA work. CMT's commitment to diversity has been demonstrated on previous projects such as the I-70 Interchange for the New Mississippi River Bridge, which was completed for MoDOT. This project had a 12.4% women/13% minority participation and was instrumental in CMT receiving "Consultant of the Year" from MoDOT's External Civil Rights Division. CMT was also distinguished in 2012 by the Illinois Black Chamber of Commerce as one of three recipients of the "Outstanding Business of the Year". These recognitions reflect CMT's commitment to diversity through more proactive recruitment of minorities and women, mentoring programs and initiatives.

### **THREE COMPANY REFERENCE FORMS**

The required company reference forms are included as an attachment to this letter.

### **GENERAL EXPERIENCE OF FIRM**

CMT has been in the transportation field since our incorporation in 1946. We have continually served federal, state and local governments during that time span providing transportation engineering services including Trail & Sidewalk design. Since 1983, when CMT opened an office in Missouri, we have provided engineering services to numerous municipal clients throughout the state. Some of our key LPA projects are more fully described in the Past Performance section of this document.

### **PAST PERFORMANCE**

The following projects are indicative of CMT's commitment to providing outstanding engineering services related to Trails & Sidewalks.

- **Hamilton-Carr Greenway.** CMT was selected by the City of Wildwood to reconstruct a portion of the Hamilton-Carr Greenway and provide a crossing under Route 109. CMT was challenged with designing an "underpass" that could be constructed in 45 days. This multi-use pathway is a highly used path by both pedestrians and bicycles. Drainage of the facility was crucial as the site is adjacent to a creek and Route 109.

- **Fifth Street Gateway Project.** The City of St. Charles chose CMT to design their new “gateway” to St. Charles’ central business district. Architectural enhancements, including pathways, sitting and viewing areas, historic lighting and a new gateway structure welcoming visitors to the City was part of the project. A complex design involving right-of-way issues, utility coordination and ADA compliance sidewalks was also part of this challenging project. This is an LPA project administered through MoDOT.
- **Park Over the Highway.** For MoDOT, CMT was selected to provide engineering services for the improvement of downtown St. Louis streets in order to accomplish and meet the goals of CAR2015, a civic organization formed to improve the area adjacent to the Gateway Arch. CMT worked with CAR2015’s landscape architect to design a new “Land Bridge” which will carry pedestrians across I-70 on new trails connecting downtown St. Louis with the Riverfront. Complex ADA designs along with ten blocks of City sidewalks were also included in the project.
- **Warrenton Historic Lighting.** CMT was selected by the City of Warrenton to design historic lighting through the heart of the City along existing sidewalks and paths for this LPA-monitored project.
- **Route 100 Enhancements.** The City of Washington selected CMT to provide enhancements along their central business district on Route 100. Improvements consisted of adding bicycle lanes, way-finder signage, improved pedestrian crossings and landscaped medians.
- **Mercantile Sidewalk.** CMT was selected by the City of St. Charles to design sidewalks along with associated signals, signing and ADA compliance measures for this safety-related project which added new sidewalk connection to a nearby elementary school.
- **Route 185 over I-44.** As part of the work for the City of Sullivan on the new grade separation project, CMT designed 2 ½ miles of roadway improvements which included sidewalks with ADA compliance measures. This was a cost-share project between the City and MoDOT.
- **US 54 Pedestrian Improvements.** For the City of Camdenton, CMT completed this unique application of LPA funding in completing a sidewalk improvement project that included bridge widening for pedestrian access to complete the pathway along US 54. The project was completed within the existing right of way and included signal design to accommodate pedestrian movements.
- **Benton Avenue Streetscape.** CMT designed ADA compliant sidewalks, landscaping, lighting, drainage, and streetscape improvements to Benton Avenue for the City of Springfield.
- **Route 14 Sidewalks.** CMT designed improvements for pedestrian-vehicle safety along the Route 14 corridor for the City of Ozark. This project provided a safer route to a surrounding school and community centers.
- **Branson Historic Downtown.** CMT was commissioned by the city of Branson for planning and engineering of a six-block historic downtown streetscape revitalization. The core of the project is to improve pedestrian and traffic flow with sidewalk and intersection improvements and aesthetic features such as landscaping and benches.

## **QUALIFICATIONS OF PERSONNEL**

**R. Jay Rakers, P.E.** – Jay brings 16 years of design and planning experience on transportation-related projects. He has served as a project manager, project engineer and design engineer with experience in location studies, preliminary, right of way and final construction plans. Jay was the lead roadway engineer on the Park Over the Highway project and also led the design on the MRB I-70 Interchange project.

**Jack Blakemore, P.E.** – Jack has over 21 years of experience and has served as Project Manager for several MoDOT projects including the I-55/East Main Interchange in Jackson, the Route 210 project in Kansas City and the Route 61 Project for the NE District, which won MoDOT’s first Practical Design Award for a consultant.

**Brian Eads, P.E., PTOE** – Brian has 15 years of experience working on roadway design and traffic analysis projects for various clients including MoDOT. His experience includes completing detailed traffic studies and implementing these studies into constructible roadway plans.

**John Keeven, P.E.** – John has been with CMT since 2005, serving as both a Design Engineer and Construction Engineer for the Highway & Bridges unit. Specific design experience includes location studies, horizontal and vertical design, highway lighting, traffic signals, ADA compliant sidewalks and curb ramps, traffic control plans, cost estimating, and construction specifications.

**Andrew Schlichting, P.E., PTOE** – Andrew has 9 years of experience on transportation projects. He has extensive experience in all areas of roadway design with drainage and traffic being his areas of expertise.

**Steve Prange, P.E.** – Steve has been with CMT since 2000 and leads our Springfield, MO office. He offers diverse experience in project management with special design expertise in sustainability, practical design, roadway geometrics, drainage, and structural components for a variety of different county and municipal clients.

**Greg Law, P.E.** – Greg offers over 30 years of experience. He serves as the Group Manager for Highways & Bridges and will manage, oversee and assign personnel to projects as well as oversee QA/QC.

**FAMILIARITY/CAPABILITY**

CMT has a long history of meeting our clients’ goals on projects, whether this is through meeting aggressive schedules, using the latest technologies and software on a project or the application of cost-efficiency measures to help save construction dollars. CMT has an excellent relationship with our core group of clients and our extensive experience with their staffs gives us the familiarity to be very efficient throughout the design process. Through our projects, CMT has become intimately familiar with the processes and requirements on projects with federal oversight as well. The following table of projects shows projects that included federal oversight on LPA projects. All of these projects were completed with minimal review comments by FHWA:

- |   |   |
|---|---|
| <i>Church Road Improvements (Arnold)</i>        | <i>West Terra Road – Phase III (O’Fallon)</i> |
| <i>Historic Lighting (Warrenton)</i>            | <i>Geiger Road (St. Louis County)</i>         |
| <i>Schneider Road Bridge (Jefferson County)</i> | <i>Goodfellow Blvd (St. Louis)</i>            |
| <i>Broadway Avenue Bridge (St. Louis)</i>       | <i>Route 100 Enhancements (Washington)</i>    |
| <i>Highway 54 (Camdenton)</i>                   | <i>Lions Den Road (Jefferson County)</i>      |

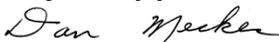
**ACCESSIBILITY**

All of the assigned personnel listed above, with exception of Steve Prange, work out of our St. Louis office. This entire group is highly focused on the successful delivery of services within allotted schedules set by our clients. Our St. Louis Highways & Bridges Group has met 100% of their scheduled milestone dates on all of their projects over the last ten years. In addition, our team relies on responsiveness to our clients’ requests, with a goal of responding to all requests within 24 hours. The following table indicates some of our recent accelerated schedules:

PROJECT	CLIENT	CONTRACT DESIGN TIME	ACTUAL DESIGN TIME
MRB Interchange	MoDOT	14 months	12 months
Rte 266/Airport Blvd	Springfield, MO	20 months	7 months
Park Over the Highway	MoDOT	10 months	10 months
Rte 185/I-44	Sullivan, MO	24 months	21 months
I-44 Union to Pacific	MoDOT	10 months	7 months
Rte 100 Washington	MoDOT	24 months	10 months
Church Rd	Arnold, MO	12 months	10 months
US 50/63 & McCarty St.	Jefferson City, MO	24 months	21 months

CMT has enjoyed the working relationship that has been established and grown over the years with our LPA teammates. CMT offers an uncommon level of stability and staff continuity which will assist us as we move forward with more complex and exciting projects with municipalities throughout the state. We believe we have an excellent team that can provide responsive and cost efficient designs for LPA Trail & Sidewalk projects.

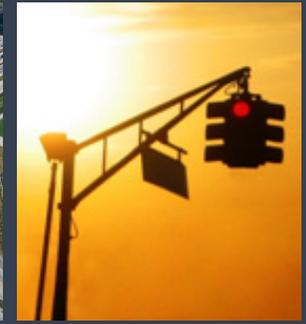
We wish to thank the selection committee in advance for their time and effort in reviewing and evaluating our Letter of Interest and look forward to your favorable consideration.

Respectfully yours,  
  
 Daniel R. Meckes  
 President

MoDOT

*Bringing Value to Missouri  
Highways and Bridge  
Infrastructure*





## About CMT

Established: 1946

Firm Size: 264

## Rankings

- #239 Among Top 500 Design Firms (Engineering News-Record 2013)
- #4 Midwest Civil Engineering Firm (Midwest Construction 2013)
- #6 Midwest Firm in Transportation (Midwest Construction 2013)
- #6 Design Firm in Missouri (Midwest Construction 2013)

## Service Areas

- Highways and Bridges
- Aviation
- Land Development
- Water and Wastewater

## Other Locations

- Springfield, IL (corporate)
- Aurora, IL
- Chicago, IL
- Columbus, OH
- Edwardsville, IL
- Indianapolis, IN
- Peoria, IL
- Rockford, IL

## CMT Highways & Bridges

From complex highway interchanges in urban settings to major bridge river crossings, CMT can take a transportation project from its earliest development stages through planning, design, and construction. Whether we are working with a large transportation agency or a local community, we are responsive to our clients' needs. While meeting their goals of providing safe and efficient transportation, we also seek out community input and account for environmental considerations to provide context-sensitive solutions that assure each project succeeds on every level.

## Highway and Bridge Services

- Program Development
- Planning/Feasibility Studies
- Noise and Air Quality Studies
- Environmental
- Road and Highway Design
- Bridge Design
- Traffic Studies
- Construction Phase Services
- Land Acquisition
- Structural
- Lighting
- Bikeways and Paths
- Drainage
- Public Involvement

## Missouri Offices

CMT's St. Louis and Springfield offices allow us to better serve multiple regions throughout the state. Between the two offices we have a staff of over 60 employees supporting transportation infrastructure projects throughout the state.



CMT-St. Louis  
Gateway Tower  
One Memorial Drive, Suite 500  
St. Louis, Missouri 63102  
314.436.5500 fax: 314.436.0723

CMT- Springfield, MO  
1631 West Elfindale  
Springfield, MO 65807  
417.869.6009 fax: 417.869.8129

[www.cmtengr.com](http://www.cmtengr.com)



## New I-70 Interchange for Mississippi River Bridge

MISSOURI DEPARTMENT OF TRANSPORTATION

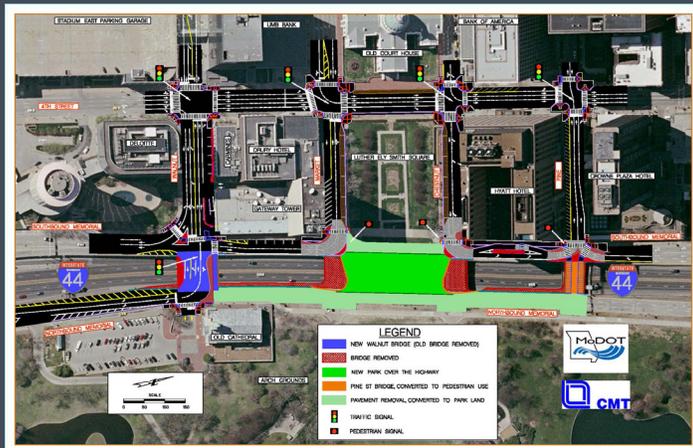
ST. LOUIS, MISSOURI

- Five new ramps providing movements to and from the new bridge to I-70 and I-44
- Seven bridges and six retaining walls
- Successful achievement of highly accelerated schedule – designed in 12 months
- Innovative Practical Design approach resulted in 30% cost reduction (\$13M)
- Reconfigured original interchange design to more economical configuration
- Documentation for route marking changes
- Complex construction staging
- Urban street designs including mobility and ADA requirements

## West Terra Road Improvements

CITY OF O'FALLON, MISSOURI

- Phase I and II consisted of widening/overlay of 7400 linear ft. of roadway improvements
- Phase III consisted of 6100 linear feet of roadway improvements
- MoDOT/LPA-administered project
- Improvements included overlay, shoulder/bicycle land additions and drainage improvements
- Field surveys
- Intersection design studies
- Drainage studies
- ROW surveys and documents
- Environmental survey request
- Traffic signal design



## A Park Over the Highway

MISSOURI DEPARTMENT OF TRANSPORTATION

ST. LOUIS, MISSOURI

- Very high profile project featuring a new 280 foot land bridge over I-70 connecting the Jefferson Expansion Memorial Park (Arch grounds) with the downtown at Luther Ely Smith Square
- Removal of three bridges over I-70 and reconfiguration of area traffic patterns involving improvements to a 8 square block area of downtown St. Louis
- Unique structural components
- Communication with a wide variety of stakeholders including extensive coordination with the landscape architect working for CAR2015
- Successful achievement of highly accelerated schedule – designed in 8 months
- Complex construction staging plan

## Church Road Widening

CITY OF ARNOLD, MISSOURI

- Widening and relocation of a two lane roadway to a proposed five lane roadway
- Traffic study
- Successful CMAQ Funding Application
- Public involvement meetings
- Five signalized intersections
- Coordination with MoDOT (CMAQ Project - LPA Manual)
- Construction Inspection





## Route 210 Widening

**MISSOURI DEPARTMENT OF TRANSPORTATION  
KANSAS CITY, MISSOURI**

- 5 mile long project, converting a 2-lane rural to a 4 lane expressway.
- High traffic roadway with significant truck activity
- New roadway, drainage, signing, signals, lighting, etc.
- CMT conducted streamlined VE Study
- \$1.48M in savings (12.7%) from 63 creative ideas, 3 accepted VE Proposals

## Lions Den Road Improvements

**JEFFERSON COUNTY, MISSOURI**

- CMT was selected for all four phases of a four mile roadway improvement.
- Widening from two 10-foot lanes to two 12-foot lanes with two 8-foot shoulders
- Prepared four alternative alignments with preliminary cost estimates
- Public Information meetings
- Funded with STP funds and MoDOT's Local Roads Group



## Historic Pedestrian Street Lighting

**WARRENTON, MISSOURI**

- MoDOT LPA administered project consisting of approximately 2,200 feet of sidewalk to be illuminated
- Fixed construction budget
- Temporary traffic control
- Utility survey pickups and coordination
- Alternative lighting analysis utilizing IES RP-8-00 American National Standard Practice for Roadway Lighting
- Construction observation

## Route 61/67 Bridge over Meramec River

**MISSOURI DEPARTMENT OF TRANSPORTATION  
ST. LOUIS, MISSOURI**

- Major river crossing connecting Jefferson and St. Louis counties
- Extensive 404 PERMIT and environmental permitting
- Detailed hydraulic analysis
- Architectural enhancements
- Fast schedule was accelerated - CMT met all the required milestones

