



November 15, 2013

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Ms. Mary Ann Jacobs
Local Programs Administrator
**MISSOURI DEPARTMENT
OF TRANSPORTATION (MoDOT)**
105 West Capitol Avenue
Jefferson City, Missouri 65102

**RE: Letter of Interest for Missouri's
Local Program (LPA) On-Call Services
Trails & Sidewalks Work Category
CDG Qualifications No. Q13092.05**

Dear Ms. Jacobs:

In response to MoDOT's request for consulting firms to perform on-call professional services for an LPA pre-qualified list, CDG Engineers, Inc. ("CDG") submits this letter of interest. CDG is interested in being qualified for the following work categories: roadway design, trails and sidewalks, construction inspection and structures in all areas of the state. This letter of interest specifically concerns qualifications for Trails and Sidewalks.

CDG is a 65-person A/E firm located in the City of St. Louis. Its main disciplines are civil and structural engineering, with in-house capabilities in electrical and mechanical engineering, architecture and construction administration/inspection.

Key personnel at CDG have a complete and thorough understanding of the performance requirements for engineering and design work subject to the design and documentation requirements of the Local Public Agency Manual (LPA). CDG has completed over twenty (20) LPA projects in the last five years for various entities in the State of Missouri. CDG has successfully performed work on projects subject to the LPA Manual without any incidences where the sponsoring community has been in danger of losing its funding due to missed deadlines or the inability to obtain MoDOT acceptance of design submissions. In fact, one of the first things CDG does at the start of an LPA project is to have a meeting with the sponsoring community representative(s) and the MoDOT representative to ensure that all parties are in agreement with project goals and budget, and to identify any new requirements and/or documentation requirements of the LPA. Several members of CDG have attended the LPA Basic Training Classes and are currently certified for LPA projects. Additionally, a member of our firm (Glenn Smith) was a member of the Statewide MoDOT LPA Committee, 2012-2013.

Members of CDG are very familiar with the new ADA standards. Most sidewalk improvement projects now involve some ADA code compliance issues. The design of street ramps has become a design item that MoDOT carefully monitors. CDG has worked with MoDOT's ADA expert and schedules coordination meetings with both MoDOT and the LPA/Owner's coordinators during the design phase of a sidewalk project.

For the past several years CDG has been working with Jane Lale (Director) and other technical staff members of the Missouri State Parks in planning and designing the Rock Island Trail in western Missouri between Windsor and Pleasant Hill. This 47 mile trail is sometimes referred to as the "Western Expansion of the Katy Trail." It includes 38 creek crossing structures that will be replaced or rehabilitated using CDG designs. CDG personnel have also designed improvements to various segments of the Katy Trail in Eastern Missouri.



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Additionally, CDG has been responsible for the engineering and design services for numerous pedestrian and bikeway trails built or proposed for construction in eastern Missouri and the St. Louis Metropolitan Area (Sunset Park Trail, Truman Park Trail, Riverwoods Trail, Hunter’s Ford Trail, Earth City Levee Trail, Downtown Riverfront Trail, Wildwood Phase 7 Trail, Meramec Greenway Trail and various trails placed next the vehicular rights-of-way). In a multi-phase project for the City of Town & Country, CDG developed designs for a pedestrian trail located along major segments of Clayton Road.

Key Personnel:

Mark W. Birchler, P.E., PLS, CFM (Principal/Manager, Civil Engineering) – Mark has over 35 years of experience in design and preparation of plans for pedestrian and bikeway trails, sidewalks, ADA compliance, intersection improvements, roads, bridges and culvert installations, urban and suburban area renewal and revitalization work, street reconstruction, infrastructure improvements and related public works projects.

Gregory E. Brunkhorst, A.I.A., LEED AP (Principal/Manager of Architecture) – Greg is a professional architect with over 30+ years of experience. In the last several years, he has led work on several pedestrian trail and bikeway design projects in the St. Louis Metropolitan Area, and pedestrian trail design work for the Missouri State Parks and the Great Rivers Greenway District.

Glenn A. Smith, P.E. (Civil and Structural Engineer) – Glenn’s career has spanned 30+ years and he has provided civil and structural engineering expertise for local and regional projects, including work for MoDOT, MoDNR (Katy Trail Extension), GRG, etc.

Michael J. Caruso, P.E. (Civil Engineer) – Mike has approximately five (5) years of civil engineering and design experience for pedestrian trails and bikeways, ADA compliance, streets, highways, bridges, culverts, storm water drainage and sanitary sewer systems and other public works associated with site and infrastructure improvement work. He has worked for such clients as the Missouri Department of Natural Resources, the Great Rivers Greenway District.

Daniel J. Rieck, P.E. (Civil Engineer) – Dan has over five years of civil engineering analysis and design experience. He has performed engineering analysis work for several site infrastructure improvement projects for the Missouri Department of Transportation and the Great Rivers Greenway District (several pedestrian and bikeway trails in State of Missouri). He is experienced in ADA compliance issues as well.

Recent Trail and Sidewalk Project Experience:

Great Rivers Greenway District and City of St. Louis, Leonor K. Sullivan Street Improvements for Jefferson Memorial Expansion: Engineering design for LED lighting upgrades, utility relocations and permitting (401/404/408 & Flood Plain Development permitting assistance). CDG performed work as a sub-consultant to David Mason and Associates. Included electrical substation design, assistance with

“CDG is the most practical, resourceful, and persistent engineering firm with which I have worked in the last ten years. . . No matter what the project, CDG remains fierce in its determination to find a safe, high-quality solution. I can recommend them without reservation.”

**Nancy Thompson,
Retired Community
Engagement/Project
Manager, Great Rivers
Greenway
Multiple Trail Projects**



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environmental assessment of entire project site, coordination of the lighting fixture design and provision for compliance with local code and City of St. Louis Lighting Division Standards. Assisted in the acquisition of extended warranties for key components of the LED lighting system.

Ladue and Warson Sidewalk Improvements, City of Ladue, Missouri – Engineering, design and construction engineering for the installation of new sidewalks for improved pedestrian access along a collector road and an arterial in this St. Louis County community. The project was located adjacent to Mary Institute Country Day (MICD) School. The project was funded through the LPA program and the requirements of the Local Public Agency manual were followed throughout the design and construction phases for the project.

Davis Place Curb Ramp Replacement Program, City of Clayton, Missouri – Engineering and design services for ADA compliance work for the improvement and reconstruction of curb ramps for sidewalk areas located at various intersections in the Davis Place Subdivision. The goal of this project was to promote safer and more accessible pedestrian travel in a residential area located on the edge of the City of Clayton Downtown Area.

Clay Avenue Street Pavement Improvements and Associated Sidewalk and Curb Ramp Upgrades, City of Kirkwood, Missouri – Engineering and design services for street and sidewalk improvements to sections of Clay Avenue, West Mermod Place and West Jewel Avenue, a total distance of approximately 2,800 lineal feet in a residential area of the City. This project included the design of site improvements for several road intersections, the installation of new sidewalks for improved pedestrian access in the residential area and the replacement of a water line for the City of Kirkwood Water Department.

Rock Island Trail, Missouri State Parks – Development of the Rock Island Trail, a 47 mile trail (trail next to rail) in the western part of the state. This project has included paved and unpaved trail sections, property research, inspection and analysis of close to 70 bridge/culvert structures for reuse/rehabilitation for the new trail. The right-of-way being used for this trail project has required extensive coordination with Ameren Missouri and other stakeholders (property owners along the proposed trail, railroad companies that used the R-O-W and other state agencies).

CDG is very interested in providing trail and sidewalk design services on LPA projects across the State of Missouri. Please refer to our three (3) company reference forms and four page qualifications for more information.

Respectfully submitted,

CDG Engineers, Inc.

Handwritten signature of Michael A. Augustine in blue ink.

Michael A. Augustine
Manager, Project Development

Handwritten signature of Mark W. Birchler in blue ink.

Mark W. Birchler, P.E., R.L.S., CFM
Principal/Project Manager

Enclosures

CDG Engineers, Inc.

Public Works and Infrastructure Services Overview St. Louis, Missouri

CDG Engineers, Inc. is a full service, multi-discipline professional services organization with more than 65 personnel. Technical services have included various engineering studies, design and construction coordination assignments. Specialized experience and technical expertise for the following:

- Pedestrian and Bikeway Trails and Walkways
 - Recreational Park and Recreational Site Improvements and Amenities
 - Hiking and Biking Trails (locations studies, alternative alignments, design, etc.)
- Street and Streetscape Improvements and Other Transportation Enhancements
 - Site Planning and Landscaping Improvements
 - New Sidewalks, Curbs and Gutters
 - Street and Pedestrian Lighting
- Creek/Channel/Stream Restoration, including Erosion Control
- Flood Plain Protection Studies, including hydrological and hydraulic modeling
- Permitting Assistance, Permit Applications and Compliance
 - Flood Plain Development, Army Corps of Engineers, State Department of Natural Resources (or Environmental Protection Agency) and Water Quality Permits
- Roads/Bridges/Culverts/Retaining Wall Structures
 - Plans, Specifications, Construction Estimates, Construction Administration
- LPA Project Administration and Execution
 - Preparing Applications for Local Public Agency (LPA) funding assistance
 - Managing LPA funded projects and complying with all technical requirements
- City Engineer Services
 - Performance of on-call task order assignments
 - Indefinite Delivery/Indefinite Quantity (IDIQ) contracts
- Area-wide Exterior, Security and Pedestrian Lighting
- Parking Lots, Equipment Storage Yards, Material Storage Facilities
- Parking Structures (New Construction and Repair/Restoration)
 - Studies, Inspections, Design and Construction Administration
- Sanitary Sewers and Storm Water Drainage and Control Systems
 - Sanitary Relief Sewers
 - Combined Sewer Relief Projects
 - Channel Restoration and Stream Bank Stabilization
 - Sewer Rehabilitation and/or Replacement
 - Pump Stations and Outfalls
- Administrative, Maintenance and Support Buildings Programming and Design, as well as Site Planning and Other Project and Construction Administration Services

CDG Engineers and its full-time 65-person technical staff routinely provide multi-discipline expertise for various municipalities and governmental entities.





Mark W. Birchler, P.E., PLS, CFM (Principal/Manager, Civil Engineering) – Mark has over 35 years of experience in design and preparation of plans for pedestrian and bikeway trails, sidewalks, intersection improvements, roads, bridges and culvert installations, urban and suburban area renewal and revitalization work, street reconstruction, infrastructure improvements and related public works projects. He has performed work for the Great Rivers Greenway District, the St. Louis County Department of Highways and Traffic, the Metropolitan St. Louis Sewer District and the Missouri Department of Natural Resources (Division of Parks).

Gregory E. Brunkhorst, A.I.A., LEED AP (Principal/Manager of Architecture) – Greg is a professional architect with over 30+ years of building, public works and infrastructure programming and design experience. In the several years, he has led work on several pedestrian trail and bikeway design projects in the St. Louis Metropolitan Area, and pedestrian trail design work for the Missouri Department of Natural Resources and the Great Rivers Greenway District.



Glenn A. Smith, P.E. (Civil and Structural Engineer) – Glenn’s career has spanned 30+ years and he has provided civil and structural engineering expertise for local and regional projects, including work for MoDOT, MoDNR (Katy Trail Extension), GRG, the City of St. Louis, Jefferson County, Franklin County, St. Charles County and other local groups. In his career, he has been responsible for the engineering and design of over 100 bridges and associated roadway and pedestrian trail improvements.

Michael J. Caruso, P.E. (Civil Engineer) – Mike has approximately five (5) years of civil engineering and design experience for pedestrian trails and bikeways, streets, highways, bridges, culverts, stormwater drainage and sanitary sewer systems and other public works associated with site and infrastructure improvement work. He has worked for such clients as the Missouri Department of Natural Resources, the Great Rivers Greenway District, City of Sunset Hills, and Ameren. Most recently Mike has prepared final plans and specifications for the Earth City Levee Trail located along the Missouri River. Mike also worked on Clayton Road trail project.



Daniel J. Rieck, P.E. (Civil Engineer) – Dan has civil engineering analysis and design experience, including site data collection and engineering analysis for street improvement projects, storm water drainage and control systems design work, site reconnaissance for utility installation and relocation work, property research for public works improvement projects and capital improvement work for the Metropolitan St. Louis Sewer District (MSD). He has also performed engineering analysis work for several site infrastructure improvement projects for the Missouri Department of Transportation and the Great Rivers Greenway District (several pedestrian and bikeway trails in State of Missouri).

David M. McCuddy, E.I.T., (Civil Engineer) – Dave has more than 28 years of project engineering and design experience within the public work and infrastructure market segments. Some of his recent projects include engineering and design work for Phases I and II of the Clayton Road Improvements and portions of the Earth City Levee Pedestrian and Bikeway Trail for the Great Rivers Greenway District.



The following listing of trail and sidewalk projects represents work administered under the LPA Program, as well as pedestrian trail projects for the Great Rivers Greenway and Missouri State Parks.

City of Hazelwood (Public Works Department), Hazelwood, Missouri – Engineering and design services were provided for the preparation of construction plans and specifications for Fee Fee Road Improvements between McDonnell Boulevard and Anglum Road in North St. Louis County. The project included improved pedestrian access to the area through the addition of a sidewalk on the east side of Fee Fee Road and another pedestrian crossing at the intersection of Fee Fee and McDonnell. Further improvements were to include a 450 foot landscaped median and the construction of ADA compliant (safe and accessible) curb ramps and pedestrian crossing signals, as well as storm water drainage system upgrades and improvements. (LPA project)

City of Ladue, Ladue, Missouri – Engineering, design and construction engineering for the installation of new sidewalks for improved pedestrian access and ADA compliance along Ladue and Warson Roads, a collector road and an arterial in this St. Louis County community. The project was located adjacent to Mary Institute Country Day (MICD) School. (LPA Project)



City of Maryland Heights, Maryland Heights, Missouri – Engineering design services for surface transportation enhancements to the I-270 and Dorsett Road Interchange and portions of Progress Parkway in the City of Maryland Heights. Work included new crosswalks, pedestrian walks, pavers, lighting, decorative rails, medians, MSE walls, signage and landscaping. CDG had to present possible design ideas to the City Council on several occasions. Animations were created to convey the enhancement design.

City of O’Fallon, O’Fallon, Missouri – Engineering and design services for the construction of an 8-foot wide asphalt trail along the north side of Feise Road between Bryan Road and State Highway K. Approximately 2,400 linear feet of sidewalk was also added in three (3) areas along Belleau Creek and Knaust Roads and accessible curb ramps. (LPA Project)

City of Town and Country, Town and Country, Missouri – Engineering concept and detail design services for the preparation of construction plans and specifications for roadway and other improvements to Clayton Road Phases I & II. This project also included the design of a pedestrian and bikeway trail parallel to and north of Clayton Road. (LPA Project)

Missouri State Parks, Jefferson City, Missouri – Planning, programming, engineering and design services for the proposed construction of a 47-mile pedestrian and bikeway trail in Western Missouri. This trail (Rock Island Trail) is located along the side of an existing rail right-of-way that is located between Pleasant Hill and Windsor in Western Missouri. The execution of the work has been done as a series of projects for the various segments of the new trail. This trail is also referred to as the “Western Expansion of the Katy Trail.”



City of Clayton, Clayton, Missouri – Engineering and design services for ADA compliance work for the improvement and reconstruction of curb ramps for sidewalk areas located at various intersections in the Davis Place Subdivision. The goal of this project was to promote safer and more accessible pedestrian travel in a

residential area located on the edge of the City of Clayton Downtown Area.

Great Rivers Greenway, St. Louis, Missouri – Conceptual and detail design services for the Sunset Greenway Trail from the Missouri River Greenway at Sunset Park to Old Town Florissant in north St. Louis County. A portion of the trail was located along the Missouri River and other segments were located along Coldwater Creek.



Great Rivers Greenway, St. Louis, Missouri – Site investigation for the Riverwoods Trail project located along the Missouri River (and the Riverwoods Conservation area) in the Earth City area. Services included permitting assistance (the identification and review of regulatory requirements and execution of applications for approval) and the preparation of design documents for the construction of this Missouri River trail, levee trail and recreational park.

Great Rivers Greenway and the City of Hazelwood, Hazelwood, Missouri – Site investigations, civil and structural engineering and permitting assistance for the construction of the Truman Park Trail, a 2,750 foot hiking and bike trail in Harry S Truman Park. This trail was to be paved and it was routed through a heavily wooded area along what had been an "informal path" that had been used for decades. The project included installation of a bridge for a fairly large stream crossing and associated permitting activities.



City of Wildwood, Wildwood, Missouri – Concept and final design and cost estimating for the Wildwood Greenway Phase 7, a new pedestrian trail to serve as a connection for residential areas. This project involved property ownership research and preparation of presentation drawings for public presentation. Permitting and wetlands delineation requirements for the construction of a trail were also identified. Final design, preparation of construction plans and construction cost estimating were also performed.

Great Rivers Greenway District, St. Louis County, Missouri – Final engineering and design services work for the Deer Creek and Shady Creek Pedestrian and Bikeway Trail (Greenway). The pedestrian and bikeway trail/greenway is supposed to travel through parts of Brentwood, Maplewood and Webster Groves along Deer Creek and Shady Creek.



Missouri Department of Natural Resources, St. Charles County and St. Louis City, Missouri – Reconstruction of trail sections located in approximately 3 miles of the Katy Trail. This work included repair and restoration work for a portion of the trail constructed on levee structures and reconstruction of several bridge structures.