

November 14, 2014

Mr. Kenny Voss, P.E.  
Local Program Administrator  
Missouri Department of Transportation  
105 West Capitol Avenue  
Jefferson City, Missouri 65102

**RE: Letter of Interest - On-Call Professional Services – Trails & Sidewalks**

Dear Selection Committee:

This letter is in response to the request for letters of interest for on-call professional services for trails and sidewalks. The Tetra Tech team has the technical skills, experience, and critical thinking necessary to provide Missouri's Local Program (LPA) with the highest level of professional services.

**GENERAL EXPERIENCE OF FIRM**

Established in 1966, Tetra Tech is a leading provider of consulting, engineering, and technical services worldwide. We are a diverse company, including individuals with expertise in science, research, engineering, construction, and information technology. Our staff includes a regional transportation group of 22 engineers, engineer interns, and technicians. Over 500 transportation professionals and experts from around the county supplement our regional transportation staff.

As one of the leading transportation engineering firms in the United States, Tetra Tech provides a full range of services to federal, state, municipal, and private sector clients. We have been providing transportation services since 1981. Our experience includes trail and sidewalk design, pedestrian friendly transportation improvements, utility coordination, storm water analysis and design, streetscape design, and conceptual studies.

**FAMILIARITY / CAPABILITY**

The Tetra Tech team has extensive familiarity with federal-aid projects and the demonstrated ability to deliver federal-aid projects that are compliant with federal law. Our staff members have many years of experience working for various LPA's. The Tetra Tech team has completed numerous transportation projects from concept to preliminary plans, to right-of-way plans, to final PS&E hitting all of the regulatory steps in between such as:

- Assisted with the environmental process. Team members have submitted Section 404/401 permit applications, assisted with Section 106 investigations and Section 4(f) evaluations, and prepared exhibits as necessary or requested as part of the NEPA.
- Prepared project specific erosion control plans to comply with the DNR.
- Coordinated with utilities. Staff have completed utility relocation plans and assisted with utility clearance.
- Complied with the ADA particularly as it relates to sidewalk, trails, and bike path facilities but also parking lots and buildings.

**QUALIFICATIONS OF PERSONNEL**

**Joshua Castor**, PE, will serve as Tetra Tech's primary point of contact for the professional services anticipated under this on-call contract. Mr. Castor was previously employed by the Missouri Department of Transportation (MoDOT). Mr. Castor has successfully designed and managed many transportation projects with several clients. His relevant experience includes:

- **R. D. Mize Road, Independence, Missouri** - Project Engineer for the rehabilitation of the 1.2 mile project extending from Hidden Valley Road to Little Blue Parkway. The project upgraded the street to major

arterial standards while minimizing the impact to adjacent homes and keeping costs low. The project was federally funded. It included roadway widening, asphalt mill and overlays, roadway reconstruction, curb and gutter, 3000 feet of new storm sewer, a 110 foot triple 9x9 box culvert, retaining walls, and 8000 feet of new sidewalk and shared bike path/pedestrian walk with multiple ADA ramps.

- **Peregrine Valley Subdivision in Independence, Missouri** - Project manager for improvements to the Peregrine Valley Subdivision in Independence, Missouri. Project included new storm sewer, new double cell box culvert, new roadways, and new sidewalks with ADA ramps.
- **Fairmount Trail, Independence, Missouri** - Project Engineer for this project. Please refer to the Past Performance section for a description.

**Jonathan Heusel**, PE, licensed in Oklahoma, has over 16 years of experience in designing and managing transportation-related projects. His streetscape work has improved numerous downtown areas from clusters of one-way streets to a two-way district with bike paths, on-street parking, and pedestrian friendly amenities. He has managed several streetscape projects that include Oklahoma City's P180 Downtown Streetscape and Classen Boulevard's Asian District streetscape project. His relevant experience includes:

- **Project 180, Downtown Streetscapes, The City of Oklahoma City, Oklahoma** — Project Manager for this project. Please refer to the Past Performance section for a description.
- **Classen Boulevard Asian Streetscape from NW 23rd to NW 30th Phase 3, City of Oklahoma City, Oklahoma** – Served as Project Manager for this project. Please refer to the Past Performance section for a description.
- **Lawton Downtown Revitalization Plan, City of Lawton, Oklahoma** - Project Manager on a comprehensive plan to redevelop downtown Lawton. The project included a streetscape plan for 2nd Street and C Avenue, zoning and land use plan revisions, zoning overlays and TIF District planning, architectural standards, and code revisions. An extensive public involvement plan was developed and utilized for the project.

**Eric Atkinson**, PE, licensed in Oklahoma, has experience with both new and rehabilitated trail design, street improvements, and streetscape enhancements. His relevant experience includes:

- **Project 180, Downtown Streetscapes, City of Oklahoma City, Oklahoma** - Lead Designer on this project. Please refer to the Past Performance section for a description.
- **Edmond Trail from Fink Park to Hafer Park, City of Edmond, Oklahoma** – Provided design support and final plans for this project. Please refer to the Past Performance section for a description.
- **Classen Boulevard Asian Streetscape from NW 23rd to NW 30th Phase 3, City of Oklahoma City, Oklahoma** – Provided design support for this project. Please refer to the Past Performance section for a complete project description.

#### ACCESSIBILITY

The Tetra Tech team members listed above are accessible and available to immediately begin work on any assignment requested through the LPA on-call services contract. Tetra Tech has local offices in the Kansas City and St. Louis Metro Areas that employ 65 engineers, environmental scientists and professionals in Missouri. We have an established record of responsiveness to our client's needs. We are diligent about meeting project milestones. We value a strong line of communication where we take great care to quickly respond to client communications, and where we timely convey any project issues or consequential information to our client.

#### PAST PERFORMANCE

**Edmond Trail from Fink Park to Hafer Park, City of Edmond, Oklahoma** - Tetra Tech designed this section of trail that connects two major parks and over 6 neighborhoods. It also connects to the 3 miles of trails/pedestrian network on the campus of the University of Central Oklahoma. In addition, Tetra Tech



coordinated with an elementary school, a church, and adjacent homeowners and businesses regarding the trail design, alignment and its impacts. The project included horizontal and vertical alignments, special drainage structures, hydraulics, retaining walls, a decorative wall at the elementary school, a pedestrian bridge, erosion control measures, and various ADA accommodations including trail accessibility and improvements to intersections.

**Mingo Multi-use Trail at 11th Street, City of Tulsa** - Tetra Tech was retained to design a 140 feet long, 12 feet wide, single span pedestrian bridge and pedestrian underpass under the 11th Street Bridge. The pedestrian bridge spans across the concrete lined channel of Mingo Creek. Each abutment includes ten feet long cantilever wing walls and approach slab with gravity retaining walls transitioning the approaches into the existing grade. The pedestrian underpass consists of upper and lower retaining walls to transition the existing grade under the bridge to allow the trail to pass under the existing vehicular bridge and allow adequate clearance under the existing bridge beams. The underpass retaining walls were designed to disturb the minimal amount of material protecting the 11th Street bridge abutment and yet provide long term stability to protect the trail. An extensive drainage system was designed to prevent additional pressure to the walls and trail during flooding conditions.

**Downtown Streetscape Project 180, City of Oklahoma City, Oklahoma** - The City allocated \$115 million for streetscape improvements downtown, to bring a new urban identity to the Business District. In order to complete the project within an aggressive schedule, the City elected to apportion the work into 8 separate design projects. The City of Oklahoma City selected Tetra Tech to complete the design and project management of the largest stretch of city streets. The mile of streetscape work will turn downtown from clusters of one-way streets to a two-way district with bike paths, on street parking, and pedestrian friendly amenities. With approximately 18 blocks and 9 intersections of work, our team's efforts will help make the Business District the center for growth and job development for Oklahoma City.

**Fairmount Trail, City of Independence Parks and Recreation, Missouri, (Experience of Josh Castor)** - This project was part of the City of Independence master plan to connect all the city parks with trails. It included construction of 2,800 feet of bikeway/pedestrian trail along abandoned railroad. It also included ADA compliant handicap ramps, drainage crossings, and pedestrian street crossings. Special metal railings were designed at locations with steep side slopes. The City's GIS system was used extensively.

**Asian District Revitalization, Classen Avenue, City of Oklahoma City, Oklahoma** - As part of Oklahoma City's Master Plan, Tetra Tech was selected to provide roadway improvements and streetscaping for the newly dedicated Asian District. Detailed tile work on curbsides, dramatic stylized landscapes, and illustrative gateway solutions provided the vision of the Asian District. Tetra Tech has been involved in every stage of this initiative. From the beginning stages of outlining a clear vision to the final ribbon cutting ceremony, we understand the importance of gaining community support for project success.

#### **COMMITMENT TO WORKFORCE DIVERSITY**

Tetra Tech has a long history of meeting workforce diversity goals. Tetra Tech is a strong believer in workforce diversity. Tetra Tech's overall staffing includes 21% minorities and 29% women, and we receive high marks and awards for our disadvantaged and small business programs.

We look forward to hearing from you and the opportunity to serve the Missouri's Local Program.

Sincerely,

A handwritten signature in blue ink that reads 'John W. Barker'.

John W. (Bill) Barker, PE  
Vice President



TETRA TECH

## Trail and Pathway Design Services

The Tetra Tech team has extensive familiarity with federal projects and the demonstrated ability to deliver federal projects that are compliant with federal law. Our staff members have many years of experience providing successful trail/pathway designs for municipalities. The Tetra Tech team has completed numerous transportation projects from concept to preliminary plans, to right-of-way plans, to final PS&E hitting all of the regulatory steps in between such as:

- Assisted with the environmental process. Team members have submitted Section 404/401 permit applications, assisted with Section 106 investigations and Section 4(f) evaluations, and prepared exhibits as necessary or requested as part of the NEPA.
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### Trail and Pathway Design Services

- Trail and sidewalk design
- Bike path design
- Pedestrian friendly transportation improvements
- Utility coordination
- ADA compliance
- NEPA permitting

## Tetra Tech Facts

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Visit our website:  
[www.tetrattech.com](http://www.tetrattech.com)

- Annual Revenue: \$2.6B (FY2013)
- NASDAQ Symbol: TEK
- 14,000 employees
- 330 offices worldwide

# Trail and Pathway Design Services

## Project Experience



### Fink Park to Hafer Park Trail, Edmond, OK

This project involved planning, design, and construction management (for portion that was federally funded through ODOT/FHWA) for the first segment of a community trail system for the City. The Trail Master Plan identified Fink Park to Hafer Park as the highest priority trail. The trail connects two major parks and six major neighborhoods and to the 3 miles of trails/pedestrian network on the University of Central Oklahoma campus. The project was constructed in two phases along Spring Creek. Extensive hydraulic studies were required to achieve a CLOMR/LOMR from FEMA. Design includes a 100' long by 12' wide prefabricated pedestrian bridge that connects the trail to the Hafer Park sports complex. The trail improved access to outdoor recreation, schools, and neighborhoods.



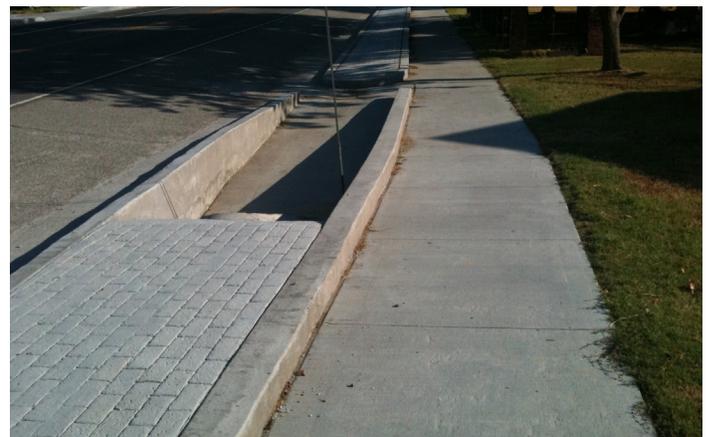
### Enid Trails, Enid, OK

Tetra Tech designed the construction of 2.15 miles of pedestrian trails. The City's project was divided into two phases, each with a series of construction options. Both phases involve construction of 10' wide pedestrian trails. The pedestrian trail sections will comply with the Americans with Disabilities Act by way of the implementation of tactile warning devices at all intersections. Furthermore, use of the trails will be restricted to foot and pedal traffic through the placement of bollards at the entrances. In addition to the functionality of the trail as a recreational resource, it is also intended that the improvements will add an aesthetic dimension. Bridges will be built to withstand a 90-psf pedestrian live load, a 25-psf wind load, a 3,000-pound vehicle load (maintenance), as well as swings in temperature from -20° to 120° F.



### Lake Hefner Trail to Lake Overholser, Oklahoma City, OK

Tetra Tech was part of a team that performed civil engineering and structural design for the trail that connected Lake Hefner to Lake Overholser. Tetra Tech provided structural design work for extending a reinforced concrete box on this segment of the community-wide trail system. This trail connects two major parks and is an important segment to complete the western half of the community trail master plan. Design considerations included heavy vehicular traffic near the trail, as well as coordination with an adjacent airport. The design also had to provide for crossings at two state highways.



### Pedestrian Sidewalk Improvements, Quapaw, OK

Tetra Tech recently completed the design of a pedestrian improvement project for the town located on historic Route 66. This project, funded by ARRA stimulus dollars, is currently being constructed in an effort to revitalize this town on the historic highway. The scope consists of the design of 3,100 lf of 5' decorative sidewalks and drainage improvements down the Main Street conforming to current ADA guidelines. The team delivered the project on a fast-track schedule to assist ODOT in expending the ARRA funds before the deadline. Construction cost: \$400K.