

January 5, 2016



Subject: Letter of Interest – 2014-2017 On-Call Contract for Trails and Sidewalks Engineering Missouri's Local Program

Dear Local Program Administrators and Representatives:

As requested in the October 1, 2013 solicitation, **Amec Foster Wheeler Environment and Infrastructure, Inc. (Amec Foster Wheeler)** is providing this letter of interest to provide design services for trails and sidewalks for the above-referenced on-call services contract. Amec Foster Wheeler has an experienced team of professionals to execute this contract, which will be managed and executed from Amec Foster Wheeler's St. Louis area office.

1) GENERAL EXPERIENCE OF FIRM

Amec Foster Wheeler has had a presence in the St. Louis market since 1975. We currently employ over 80 engineers, professionals and technicians. Amec Foster Wheeler has assembled our team with the objective of providing Local Agencies with accessibility and responsive service from day one of this contract. With that goal in mind, we have selected professional and support personnel who have demonstrated expertise in their respective fields and on projects of similar scope and complexity and are familiar with Federal and MoDOT requirements. Our trails and sidewalks design team in the St. Louis office includes a combined 50 years of design experience and our CADD technicians over 50 years of CADD experience. Additionally, the St. Louis office has a transportation design support staff of project managers, planners, roadway engineers, hydrologists, construction managers, safety officers and traffic engineers. If needed, Amec Foster Wheeler also has a depth of nationwide expertise and project experience that can be utilized for individual tasks.

Amec Foster Wheeler offers our DOT and municipal agency clients comprehensive trails, greenways and sidewalk engineering services for multi-use paths, bike lanes, shared use paths, and sidewalks. We are able to provide proven expertise to our clients in virtually every facet of design, and construction. The result is peace of mind for our client with an emphasis on creative and cost-effective solutions. Our team considers practical design on every project and has the experience to understand the difference between applying a cost effective solution and simply cheapening the construction cost. Amec Foster Wheeler's DOT and municipal clients face smaller budgets year after year. As such, they look to Amec Foster Wheeler's expertise in planning, design, application of new materials, construction methods, and project life cycle cost analysis to assist them with making smart, efficient and prioritized decisions regarding their projects. At Amec Foster Wheeler, we understand that most of a project's value is created during the conceptual and preliminary stages, and most decisions that affect project cost are resolved at this stage. Therefore, we take a very systematic approach to selecting the right solution during the planning process.

Amec Foster Wheeler's trail and sidewalk engineering services include:

- System Planning
- Inventory
- Needs and Analysis
- Pedestrian & Bicycle Trail Layout and Design
- Sidewalk and Sidewalk Ramp Design
- Grant Preparation
- Permitting
- Construction Services
- Trail Interpretive Design
- Trailhead Layout and Design

Equality and Diversity

Amec Foster Wheeler is committed to, and proud of, creating a culture of inclusion to ensure we attract and retain a diverse workforce. Amec Foster Wheeler's local office is comprised of people with wide variances in age, religion, education, social and community backgrounds, and ethnicities. As an illustration, there is a 40-year difference in age between our oldest and youngest employees, and our associates hail from nearly a dozen states. Amec Foster Wheeler is currently working with Marks & Associates on our Southwest Illinois Levee District Project to help promote diversity and local workforce participation. Participating in such Minority Outreach Programs is encouraging more participation on this project that does not include federal funding or a mandatory goal. **From the**

Amec Foster Wheeler Employee Business Code of Ethics:

"Ensuring equal opportunity means that all employees and job applicants are afforded fair and non-discriminatory treatment for both employment and advancement, irrespective of race, ethnic or national origin, age, gender, religion, sexual orientation, disability or other qualities and traits irrelevant to performing the tasks required. Employment, advancement and termination or retirement must be based on aptitude, abilities, skills and qualification."

Amec Foster Wheeler Environment & Infrastructure Inc.
15933 Clayton Rd, Suite 215
Ballwin, MO 63011
Tel: (636) 200-5100
Fax: (636) 386-3804

www.amecfw.com

2) PAST PERFORMANCE

The Amec Foster Wheeler team is extremely capable of performing this work and routinely provides these services for other agencies both locally and nationwide. Our St. Louis engineering staff is currently or has provided design and/or planning services for three Illinois DOT Regions, the Illinois State Toll Highway Authority, Ameren, City of Kansas City (MO), the City of Indianapolis, Great Rivers Greenway District, the City of University City, Parkway School District, and the City of Maryland Heights. For MoDOT, Amec Foster Wheeler has completed numerous final design projects. Other services include 27 separate EIS and EA documents in the past 22 years. Amec Foster Wheeler has completed five projects for the St. Louis District under the on-call program in recent years. This puts Amec Foster Wheeler in excellent position to develop trail concept plans and cost estimates for evaluation. We feel our past performance on similar projects and understanding of MoDOT and Federal expectations will enable our Team to be versatile, adaptable and responsive to various tasks under this on-call contract. Our most recent project experience is listed below.

- **Bicycle Facilities Improvements at Various Routes (2015), University City Public Works, University City, MO:** Amec Foster Wheeler provided construction inspection services per MoDOT and LPA requirements for this federally funded project to coordinate improved bicycle safety and create new bicycle corridors and improve existing bicycle routes. This project included sign and pavement marking removals and installation of shared use symbols, bike route signs, and round-a-bout striping. Services included: provide ongoing site inspection and documentation of construction work to meet FHWA/MoDOT requirements; maintain construction diaries and prepare change orders; prepare pre-final and final inspection punch list and inspections; and submit required documentation to MoDOT for project closeout. **Reference Contact Information:** Angelica Gutierrez, (314) 505-8568.
- **St. Vincent Greenway (2012), Great Rivers Greenway District, St. Louis County, MO:** Great Rivers Greenway District, the metropolitan trails and greenways district for the St. Louis metro area, selected Amec Foster Wheeler to develop conceptual trail layouts for a 2.5-mile portion of the St. Vincent Greenway. The trail corridor, which is part of a greenway that extends from the University of Missouri-St. Louis to Forest Park, runs through the communities of Pagedale and Wellston and connects to St. Vincent County Park. The trail corridor runs along Engelholm Creek and along a mix of residential and industrial land uses containing several brownfields. Amec Foster Wheeler prepared a conceptual trail plan that included plan and profile layouts and renderings of the proposed trail. One key element of the plan was a new trail crossing over the Metrolink light rail line. **Reference Contact Information:** Todd Antoine, Great Rivers Greenway District, (314) 436-7009.
- **Pershing Pedestrian Signal (2010), University City Public Works, University City, MO:** Amec Foster Wheeler provided the engineering for the replacement of a mechanical switched pedestrian signal. Plans and specifications were prepared to address MoDOT's design criteria and St. Louis County's maintenance contract with University City. Design elements included countdown pedestrian signals, stamped concrete and new electrical service to the signal post. **Reference Contact Information:** Angelica Gutierrez, (314) 505-8568.
- **Parkwood Lane/Doddridge Avenue (2011), Maryland Heights Public Works, Maryland Heights, MO:** Engineering and design services were provided by Amec Foster Wheeler for reconstruction of Doddridge Avenue and Parkwood Lane from Hollycrest Drive to Old St. Charles Road. Improvements include upgraded two- and three-lane sections of 3,400 feet of roadway, including concrete pavement, sidewalks, an enclosed drainage system subject to MSD's Phase II Stormwater Management requirements involving water quality, and tree lawns and landscaping. Extensive public involvement took place during the conceptual phase of the project, which ultimately changed the design of the roadway sections. Design and coordination of the project was in accordance with the Missouri DOT's LPA policy. **Reference Contact Information:** L.G. Loos, PE, (314) 291-6550.
- **Belleville Parks and Greenways Master Plan (2009), Belleville Parks and Recreation Department, Belleville, IL:** The city of Belleville updated their parks, recreation and greenways master plan in 2008/09. Amec Foster Wheeler was hired by the city, through Kaskaskia Engineering Group, to prepare a new master plan for Belleville's parks and trails system. The master plan components included: a parks and trails needs assessment; community profile; a complete inventory of the Belleville's parks, facilities and trails; goals, policies and objectives; public participation meetings; and a comprehensive parks, facilities and greenways master plan. The community expressed a need for more connections to and expansion of the Richland Creek Greenway trail system; linkages between the Richland Creek Greenway and the West Belleville Bike Trail; connections to Signal Hill Park and Frank Holten State Park; and improved linkages to all of Belleville's existing parks. **Reference Contact Information:** Debbie Belleville, (618) 233-6518.

3) QUALIFICATIONS OF PERSONNEL

Key Personnel: Amec Foster Wheeler's key personnel for work orders under this contract will be:

Project Manager: Steve Coates, PE: Mr. Coates' 28 years of professional experience includes environmental compliance, trail planning and design, stormwater management, and roadway planning and design. His expertise includes conceptual design of urban and rural highway projects; management at all levels of NEPA analysis; crash analysis and highway capacity studies; highway design; natural trail design and stream bank restoration. His clients include departments of transportation in Missouri, Illinois, Arkansas, Nebraska, and Kansas as well as numerous municipalities. Mr. Coates designed and managed the Route 54 Environmental Assessment, which received an award from the American Council of Consulting Engineers of Missouri (ACEC Missouri). He also served as the president of the Ozark Trail Association, a non-profit trail organization in Missouri, from January 2005 to January 2015.

Project Engineer: Brad Loomis, PE, PTOE: Mr. Loomis has 14 years of experience in the design and project management of civil engineering projects with additional expertise in traffic engineering and signal design. Throughout his career, he has worked closely with cities, counties, and other local agencies, leading the success of multiple STP projects in recent years for cities including University City, Wildwood, Fenton, and Town & Country.

Project Engineer: Christopher Caldwell, Jr.: Mr. Caldwell has two years of engineering experience with a focus on transportation, design, ADA facilities and pavement resurfacing. He has been responsible for projects from start to finish including quantities, traffic control, pavement marking, typicals, title sheets, estimates and erosion control. Mr. Caldwell has made drawings for proposed roadways at public meetings and has performed scoping estimates for future projects. Mr. Caldwell is familiar with MoDOT specifications and guidelines.

CADD Technician: Jeffery Johnson: Mr. Johnson has 23 years of experience in civil engineering and land development applications. His project tasks have included site plan production, CAD management, standards development, land planning, legal aspects of boundary surveys, derivation of field survey information, surveying, site grading, retaining wall design, bridge design and street design. Design software knowledge includes: MicroStation, AutoCAD, GEOPAK, and LANDdesk Top.

CADD Technician: Michael Conroy, PLS, CFM: Mr. Conroy is currently responsible for providing drafting and design support for various infrastructure improvements to Amec Foster Wheeler clients. Mr. Conroy has 31 years of experience in the design, plan preparation and management of varied public works and private development projects. Mr. Conroy has participated in the design of transportation projects including local arterial and collector roads, state and federal highway improvements and light rail and commercial railroad projects.

4) FAMILIARITY/CAPABILITY

Every members of our transportation design team has an established performance record with MoDOT and on federally funded projects while at Amec Foster Wheeler and/or working for previous employers. **Additionally two members of our team (Steve Coates and Brad Loomis) have completed the MoDOT Local Public Agency, Person in Responsible Charge training.**

5) ACCESSIBILITY

Amec Foster Wheeler's strong reputation for delivering high quality service and value for our clients will ultimately be the greatest asset for MoDOT with this trails and sidewalks design on-call contract as indicated by these testimonials...

"Great firm and very responsive."

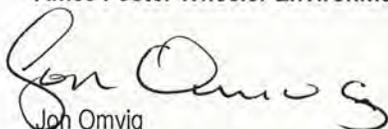
– Janet Wilding, Former Director of Administration, Great Rivers Greenway District

"... Great professionalism and cooperation amongst all parties"

– Richard Wilson, PE, Public Works Director, University City

Amec Foster Wheeler appreciates the opportunity to submit this Letter of Interest. We look forward to serving various Local Agencies with its upcoming trail and sidewalk design needs. Please contact Steve Coates at (636) 200-5111 if you have any questions or need additional information.

Sincerely,
Amec Foster Wheeler Environment & Infrastructure, Inc.


Jon Omvig
Office Manager


Steve Coates, PE
Project Manager

St. Louis Engineering and Transportation Services

Amec Foster Wheeler's St. Louis office, with over 80 professional and support personnel, provides excellence in engineering and professional consulting services to public and private sector clients in Missouri and throughout the Midwest.



Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler) is a leader in providing engineering and consulting services to government and industry, and offers complete professional services in civil engineering, structural engineering, transportation engineering, water resources, environmental, geotechnical, surveying and construction management/materials disciplines.

Amec Foster Wheeler is a recognized leader in the areas of water and wastewater systems, water resources (drainage and flood control), roadway and highway design, transportation studies, planning (site, land use and regional) and construction management. Our offices have established a track record of completing our clients' projects within budget and on schedule. Our success is based upon:

- Partnering approach of working with our government agency and private industry clients
- Extensive experience with a variety of projects
- Understanding our clients' time requirements
- Project management structure that ensures accountability
- Commitment to innovative problem-solving and cutting-edge technology

With Amec Foster Wheeler's global structure, our clients benefit from experts with a broad understanding of local conditions coupled with easy access to some of the world's most renowned experts in their fields.

With 229 offices and over 7,400 personnel throughout the U.S., Canada, South America, Europe, Asia and Australia, Amec Foster Wheeler manages large and small projects worldwide. Our 4,200 employees in 110 U.S. locations serve a diverse client base in the transportation, federal, water, clean energy, industrial/commercial, mining, and oil and gas sectors.

Local presence

Amec Foster Wheeler has had a presence in St. Louis since 1975. This office currently houses a staff of over 80 professionals, including professional engineers, professional land surveyors, certified floodplain managers, environmental scientists, planners, landscape architects, designers, technicians, and administrative personnel.

The Amec Foster Wheeler St. Louis office provides comprehensive civil engineering, transportation, structural and environmental services to public and private sector clients

throughout the Midwest and nationwide. Civil Engineering/Transportation expertise includes feasibility/location studies with NEPA documentation, roadway and structure design and inspection, sanitary sewer and storm water facility design, trail planning and design, and utility management services.

Amec Foster Wheeler has consistently added staff in St. Louis with proven experience on a variety of projects for local municipalities, DOTs, sewer and drainage districts, and institutions, as well as public and private land development clients.

Effective project management is a commitment we make to each and every client, regardless of project size. Our project managers understand the importance of quality, budgets and schedules and consider them critical performance objectives.



Awards and rankings

Amec Foster Wheeler is regularly recognized by industry groups, clients and safety organizations for our excellence in project execution and health and safety culture.

Recent awards include the National Safety Council's (NSC) Occupational Excellence Achievement Award for 2013 in recognition of exceptional safety performance in the workplace. The NSC also awarded Amec Foster Wheeler a Certificate of Merit in 2012 for distribution of a monthly Safetygram as a best safety practice.

Amec Foster Wheeler has also been named to the list of America's eight safest corporate companies by a U.S. magazine dedicated to the management of risk in the workplace and environment.

Based on annual revenue, Engineering News-Record (ENR) consistently ranks Amec Foster Wheeler in the top two percent of the world's Top 500 Design Firms; we are currently ranked at #6 in this category. We have also ranked at the top of our sector in the Dow Jones Sustainability Index since 2004.

Key St. Louis personnel

Jon Omgig, AICP - Mr. Omgig has been the Office Manager of the St. Louis office since 2004, with experience in public works projects dating to 1983. Mr. Omgig is an Urban Planner with significant experience as a Project Manager on NEPA documents, with an area of specialization in socioeconomic impact analysis, community planning, and cost benefit studies. Other projects include transportation planning studies, comprehensive plans, environmental impact studies, and various other planning projects.

James Solari, PE - Mr. Solari has over 30 years of professional experience in construction management, project management, and various engineering responsibilities in water, wastewater, hazardous waste, construction, and utility industries. He is regarded as persistent and quality oriented with a strong passion to always complete projects on-time and within budget. Mr. Solari's proven skills in bringing parties together to achieve mutually beneficial solutions while accomplishing project objectives has benefited clients throughout his career.

Steve Coates, PE - Mr. Coates has 25 years of experience in transportation engineering and planning, including environmental compliance and stormwater management and design. His expertise includes planning and design of urban and rural highway projects; co-authoring over 25 NEPA documents for highway projects in the Midwest; traffic studies including accident analyses and capacity analyses; stream bank restoration; and natural trail design. Mr. Coates managed the award-winning Route 54 Environmental Assessment, as recognized by the American Consulting Engineers Council of Missouri (ACEC Missouri).

Ryan Kane, PE - Mr. Kane has experience as a structural designer dating to 2001. He has designed, repaired, retrofitted, and inspected bridges, culverts, foundations, retaining walls, floodwalls and other related structures. Mr. Kane has designed all facets of bridge structures with spans from 20 feet to 1,500 feet, including all commonly acceptable geometries, materials and construction methods. His clients have included local agencies, state DOTs, federal agencies, private owners, and joint venture partners. Mr. Kane is an NBIS certified bridge inspector and has experience proof load testing bridges.

Brad Loomis, PE - Mr. Loomis has experience dating to 2002 in all aspects of civil engineering design, including storm sewer design, sanitary sewer design, roadway and highway design, airport facilities and site design, railroad design, federal and military facilities, and permitting. Other areas of expertise include intelligent transportation systems (ITS) design, traffic engineering and operational analysis, cost estimating, and floodplain management.

Recent St. Louis projects

Roadway design

Osage Street/I-44 Phase II Engineering; Missouri Department of Transportation; Pacific, Missouri

Amec Foster Wheeler provided design services for the relocation of the eastbound on- and off-ramps of Interstate 44 at Osage and Viaduct Streets in Pacific, Missouri. The project also included the expansion of one mile of the outer road (Osage Street) from a three-lane section with open drainage to a five-lane section with enclosed drainage, and the realignment of Lamar Parkway, a local road, to tie in to the relocated ramps. Efforts were made to reduce right of way and easement takings by means of the design of the enclosed drainage system, and a construction staging plan that minimized construction costs and business disruptions. Additional design elements included the extension of a double box culvert, numerous driveway entrances and sidewalks. Amec Foster Wheeler also performed subsurface utility engineering (SUE) for the



project, which allowed for design improvements that reduced the need to relocate existing utilities.

Parkwood Lane/Doddridge Avenue Reconstruction; City of Maryland Heights; Maryland Heights, Missouri

Engineering and design services were provided by Amec Foster Wheeler for reconstruction of Doddridge Avenue and Parkwood Lane from Hollycrest Drive to Old St. Charles Road. Improvements include upgraded two- and three-lane sections of 3,400 LF of roadway, including concrete pavement, sidewalks, an enclosed drainage system subject to MSD's Phase II Stormwater Management requirements involving water quality, and tree lawns and landscaping. Extensive public involvement took place during the conceptual phase of the project, which ultimately changed the design of the roadway sections. Design and coordination of the project was in accordance with the Missouri DOT's LPA policy.



Structural engineering / construction inspection

Brandywine Falls Pedestrian Bridge; National Park Service; Cuyahoga Valley National Park

Services included bridge inspection, load rating, load testing, rehabilitation design, and construction inspection of an existing pedestrian bridge over Brandywine Creek. Amec Foster Wheeler was the prime contractor and designer for this design-build bridge rehabilitation. The 80-year old concrete bridge had significant deterioration of the cast-in-place concrete t-beam superstructure.

Amec Foster Wheeler assessed the bridge's condition, and performed a load rating that yielded unsatisfactory results



for pedestrian loads. As such, Amec Foster Wheeler developed and performed a load test to verify the bridge's structural capacity under anticipated pedestrian loading. Repairs to the bridge were designed and constructed in accordance with strict environmental oversight from local park staff.

Toldeo Intermodal Facility Roadway Bridge over N. Fearing Blvd; Norfolk Southern; Toledo, Ohio:

Design of a 66 ft span adjacent box beam bridge with a CIP composite concrete overlay connecting two portions of a large inter-modal facility. The design rehabilitated the existing abutments. The alignment was changed from a skewed structure to a tangent alignment and the abutments were widened to accommodate the wider alignment. The load capacity of the bridge was increased to account for 300,000 pound container handling vehicles with loaded containers. The bridge was constructed in three stages to maintaining critical intermodal traffic during all stages of construction.

Jefferson National Expansion Memorial Tunnel Project; National Park Service; St. Louis, Missouri:

Amec Foster Wheeler recently completed a \$340,000 tunnel rehabilitation design/build project for the U.S. Department of Interior, National Park Service on the St. Louis Gateway Arch Grounds. This project consisted of the removal and replacement of the existing expansion joints and patching concrete spalls in three active railroad tunnels. Amec Foster Wheeler utilized the best local resources, the best current industry and engineering practices to meet the NPS's multiple objectives. This project was completed under budget and several months ahead of schedule. Kevin Williams was the lead construction inspector for this project.

Trails and greenways

St. Vincent Greenway Trail; Great Rivers Greenway District; St. Louis County, Missouri

Great Rivers Greenway District, the metropolitan trails and greenways district for the St. Louis metro area, selected Amec Foster Wheeler to develop conceptual trail layouts for a 2.5-mile portion of the St. Vincent Greenway. The trail corridor, which is part of a greenway that extends from the University of Missouri-St. Louis to Forest Park, runs through the communities of Pagedale and Wellston and connects to St. Vincent County Park.



The trail corridor runs along Engelholm Creek, which is a tributary of River Des Peres. The land use in the project area is a mix of residential and industrial containing several brownfields. The residential area, which has suffered from decay, is showing signs of renewal and some of the brownfields have been cleaned up.

Amec Foster Wheeler prepared a conceptual trail plan that included plan and profile layouts and renderings of the proposed trail. One key element of the plan was a new trail crossing over the MetroLink light rail line.

Other engineering services

- Transportation engineering
 - Transportation planning
 - Parking lots and pedestrian access
 - Recreational facilities
- Hydrology, stormwater and sanitary sewer engineering
- Sediment and erosion control services
- Utility management services

Other clients served

- Federal: U.S. Air Force, U.S. Navy, U.S. Forest Service
- State Departments of Transportation: Missouri, Illinois, Kansas, Tennessee
- County agencies: St. Louis County, Jefferson County, St. Charles County
- Municipal: University City, MO; Kansas City, MO; Belleville, IL
- Other clients: Ameren; Great Rivers Greenway; Metropolitan St. Louis Sewer District; Parkway School District

Contact us

15933 Clayton Road
Suite 215
Ballwin, MO 63011
Tel: (636) 200-5100
Fax: (636) 386-3804