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November 15, 2013

Missouri Department of Transportation
 105 West Capitol Avenue
 Jefferson City, MO 65102
 via email to MaryAnn.Jacobs@modot.mo.gov

Re: Trails & Sidewalks

Garver’s transportation professionals offer a valuable set of skills with a history of successfully providing transportation projects in Alabama, Arkansas, Mississippi, Oklahoma, and Tennessee. Garver is on MoDOT’s approved consultant prequalification list, and we look forward to providing engineering design services and serving as a trusted advisor to county and municipal clients in Missouri.

GENERAL EXPERIENCE OF FIRM

Since 1919, Garver has provided quality designs and innovative solutions. Our team continues to exceed client expectations with dedicated project leadership and a high level of technical knowledge. Garver understands and finds the best solutions for the challenges that our clients face. As transportation trends evolve and engineering practices advance, we are committed to staying ahead of the curve. Our current staff has worked on a variety of trail and sidewalk projects for municipalities and departments of transportation in Arkansas, Mississippi, Oklahoma, and Tennessee. Garver has designed various facilities such as:

- Jogging/biking trails
- Pedestrian bridges and underpasses
- Bike paths
- Multi-use (bike, jog, walk, and skate) paths
- Walkways
- Pedestrian access structures
- Athletic fields

In addition, many of our roadway design projects have included sidewalks. Surface texture, drainage, subgrade support, jointing, and material quality must be properly controlled to create lasting sidewalks. We have developed plans and specifications for repairing, rebuilding, widening, replacing, and adding sidewalks. When sidewalks are in place or installed, adequate wheelchair ramps and crosswalks are included in the design. At signalized intersections, pedestrian signals are also included.

PAST PERFORMANCE

We have an extensive performance record with trail and sidewalk projects, and our team’s similar project experience is described below.

Arkansas State Highway and Transportation Department Safe Routes to School, Statewide, Arkansas

As part of our on-call work with the Arkansas State Highway and Transportation Department (AHTD), Garver developed construction plans for new sidewalks, wheelchair ramps, crosswalks, and flashing beacons for school crossings. All of these projects were funded by Safe Routes to School grant money.

Frisco Multi-Use Trail, Fayetteville, Arkansas

Garver provided surveying, design, property acquisition documents, partial bidding services, and construction inspection services for the Frisco Trail. Improvements include extending the Frisco Trail from Martin Luther King, Jr. Boulevard to the trail located in Walker Park, including 0.5 miles of a 12-foot-wide trail with partial lighting, a tunnel, and a new prefabricated bridge.

“ The City of Tulsa has worked with Garver on multiple Transportation projects, including arterial roadway, non-arterial roadway and bridge rehabilitation. Garver works closely with the City of Tulsa to maintain the project schedule, scope and budget. When working with Garver, the City of Tulsa can expect nothing but the best. ”

~ Brooke Caviness, PE,
 Senior Engineer,
 City of Tulsa, Oklahoma

26th Street Multi-Use Trail, Rogers, Arkansas

Garver designed 7,550 feet of a 10-foot-wide wide concrete multi-use trail, including a 6,900-foot trail segment adjacent to 26th Street with six public street crossings and a 650-foot segment along Blossom Way Creek. Garver's responsibilities included design, preparing property acquisition documents, and providing construction support services. Garver also provided the following services:

- Hydrologic and hydraulic analyses of the Blossom Way Creek Tributary, including floodplain/floodway mapping that allowed the City of Rogers to change the current FEMA designated Zone A to Zone AE
- Wetland/stream delineation and compensatory stream mitigation design
- Coordination with the City of Rogers, State Historic Preservation Office, Arkansas Department of Environmental Quality, and U.S. Army Corps of Engineers regarding cultural resources, water quality, threatened or endangered species, jurisdictional determination and permit issuance consistent with the National Environmental Policy Act

QUALIFICATIONS OF PERSONNEL

Garver has more than 350 engineers, planners, technicians, surveyors, construction observers, and support personnel available company-wide. Garver has an extensive portfolio of transportation projects ranging from program management and studies to designing construction plans for projects ranging up to \$240 million in construction costs. With miles of analysis and design experience, Garver's engineers are exceptional at developing practical and economical design solutions.

The following brief resumes detail the qualifications of Garver's key personnel who will lead task orders assigned under this contract.

Ron Petrie, PE is a Senior Project Manager with 22 years of engineering experience. His responsibilities include managing the Municipal Services Team, including project scheduling, team member management, project quality control, and client representation. His previous experience includes serving as the City of Fayetteville's city engineer, which included supervising the city trails coordinator who provided design, land acquisition, and construction management of an average of 4 miles of multi-use trails per year.

Nicci Tiner, PE, PTOE is a Senior Project Manager with 25 years of engineering experience. Her project experience includes traffic signal design; traffic studies that include intersection analysis, maintenance of traffic plans for bridge construction, interstates, highways, and urban streets; and design of streets, buildings, bridges, and parking decks. For the past five years, Nicci has been the project manager on all Safe Routes to Schools Projects for AHTD.

John Cantabery, PE is a Roadway Team Leader with nine years of experience. John's responsibilities include creating horizontal and vertical geometry for roadways and railways, designing traffic signals, and designing pavement structures. His project experience includes roadway and interchange design on interstate highway, rural highway, and urban street projects. He has experience in planning studies and analyzing pavement designs for both flexible and rigid pavement structures on freeways, multi-lane highways, two-lane highways, and local roads.

Adam Stodola, PE is a Project Manager with 13 years of engineering experience. His experience includes developing alignment alternatives, creating horizontal and vertical geometry for roadways, developing construction sequencing plans, and drainage design. His project experience includes roadway and interchange design on interstate highway, rural highway, and urban street projects. Adam provides responsive service, quality projects, and excellent technical solutions.

Alabama

Department of Transportation



Transportation Support/
Design: 2003, 2006, 2008,
and 2010

Surveying: 2003, 2006, 2008,
and 2010

Arkansas

State Highway and Transportation Department



Design Services: 2002, 2004,
2006, 2009, and 2011

Surveying: 2001, 2003, 2005,
2008, and 2011

Construction Engineering and
Inspection: 2013

Mississippi

Department of Transportation



Bridge Design: 1995, 1997,
2001, 2004, 2007, and 2011

Traffic Engineering/Design:
2001, 2004, and 2011

Roadway Design: 1997, 2001,
2007, and 2011

CE&I: 2009 and 2012

Field Surveying: 2009

Value Engineering: 2012

Oklahoma

Department of Transportation



Bridge
Redecking
and Rehabilitation:
2007, 2009, and 2011

NEPA and Environmen-
tal (CIRB): 2007, 2008, 2009,
and 2012

Survey and GPS Surveying:
2006, 2009, and 2011

Reconnaissance Data Collection: 2006, 2009,
and 2011

CE&I: 2010

General Engineering Services: 2007 and 2010

Hydrology and Hydraulics: 2011

On-Demand Environmental Studies: 2010 and
2012

Tennessee

Department of Transportation



Bridge Repair,
Retrofit, and Scour Analysis: 1991, 1993,
1997, 2001, 2006, and 2010

CE&I: 2011

FAMILIARITY/CAPABILITY

Over 90% of Garver's business is with municipal, state, and federal government clients, so we understand the specialized LPA regulations and know how to satisfy project requirements in a timely and satisfactory manner. Pedestrian facilities are essential in creating a balanced municipal transportation system. As part of our commitment to healthy and safe communities, Garver recognizes the importance of pedestrian-friendly environments. Our designs incorporate trails, sidewalks, bikeways, ADA-compliant wheelchair ramps, pedestrian signals, and pedestrian/bicycle bridges. Garver routinely delivers projects with federal funding. Listed below are representative projects meeting federal requirements.



Two Rivers Bridge, Pulaski County, Arkansas

The Two Rivers Bridge, which opened in July 2011, connects the Arkansas River Trail with Two Rivers Park and provides bicyclists and hikers with 17 miles of trails. Garver provided engineering services to design the Two Rivers Bridge as well as trail additions and the adjacent parking lot. The project is 2,300 feet long and includes a 1,162-foot-long, 13-span pedestrian bridge that utilizes a combination of prestressed concrete spans and a pre-engineered truss span. The bridge sits nearly 45 feet above the river's normal pool level and is 14 feet wide. Project aspects included ramps and trail connections. The trail additions are 12 feet wide with 3-foot shoulders.



University of Oklahoma Research Campus Bicycle Path Connector, Norman, Oklahoma

The University of Oklahoma is constructing a bicycle trail from the Research Campus to the Main Campus. Garver assisted the university with developing the proposed alignment and determining a phased approach to trail construction. The initial project phase included signage and new concrete multi-use trails.

Garver performed planning services to determine various trail alternatives with estimated costs ranging from \$160,000 to \$500,000, with the least cost alternative selected for design. To provide safer access to the trail, Garver also designed a traffic signal and features, including wheelchair ramps, crosswalks, pedestrian signals, video detection, and traditional signals on mast arms.

Town Branch Multi-Use Trail, Fayetteville, Arkansas

This project included providing design and partial bidding services for the new Town Branch Trail. Design included constructing a new pedestrian bridge, upgrading a pre-fabricated bridge, and constructing the trail under the Highway 71B (School Avenue) Bridge over the Town Branch Creek. Garver also provided hydraulic modeling for all structures and acquisition of a permit for the Arkansas State Highway and Transportation Department.

ACCESSIBILITY

Garver's breadth of experience and personnel enables our teams to quickly react to client and project needs. The proximity of our staff will allow us to provide county and municipal clients with high-level, responsive service. Garver's offices in Kansas City, Missouri; Tulsa, Oklahoma; and Fayetteville and North Little Rock, Arkansas are within a few hours driving distance of project locations. In addition to being easily accessible for site visits and meeting, our staff's capacity allows us to respond promptly to any project needs. We will utilize web meetings, conference calls, and web-based file sharing to communicate with the owner.

SUMMARY

Garver brings a wealth of experience and personnel to your projects and is committed to providing excellent service in a timely manner. Our understanding of time, budget, and quality has resulted in a successful history of on-call projects. We are anxious to extend the same level of high-quality and responsive transportation service to counties and municipalities throughout Missouri.

Exceeding Expectations

Transportation for Local Projects



Garver is about personal service –
engaging in your vision,
understanding your needs,
delivering custom designs.

Our Customers Are #1

We're passionate about what we do. We place a strong emphasis on customer service, and our strong work ethic results in quality projects and lasting relationships.

Project Success

We want you and your project to succeed—which is why we invest resources in cutting-edge technology and the very best employees. We really enjoy making good things happen for our clients.

Responsive Service

When our clients have a request or need an answer, we're quick to respond. Face-to-face communication and regular interaction provide a valuable partnership to meet project goals.



Improving Communities

The Garver name represents nearly a century of community betterment. Well-designed infrastructure advances our common interest to elevate the places we work, live, and play.

Garver takes transportation projects from concept to reality with innovative design that minimizes costs and construction schedules, while providing an efficient facility with a longer service life.

The Garver Transportation Group optimizes in-house resources for planning, environmental services, design, and construction for your project.

Roadways

- Alignment studies
- Local roads and streets
- Street enhancements
- Arterials to urban streets and interchange design
- Pavement evaluation and rehabilitation
- Utility design and relocation

Bridges

- Short and long-span structures (steel and concrete)
- Bridge inspection, rehabilitation, widening, and seismic retrofits
- Sound walls and retaining walls
- Drainage structures
- Hydraulic and grade separation structures

Traffic

- Studies including Operational and Geometric Analyses
- Computer Simulations
- Signal Design, Optimization, and Coordination
- Intersection and Roundabout Design
- Signing Plans

Pedestrian and Bicycle Facilities

- Trails and Bikeways
- Combined Use Facilities
- Pedestrian/Bicycle Bridges and Underpasses
- Sidewalks, Wheelchair Ramps, and Pedestrian Signals
- Safe Routes to School

Construction Engineering and Inspection Services

- Contract Administration
- On-Site Resident Engineering
- Shop Drawing Management
- Materials Testing Coordination
- Final Project Field Close Out and Audits
- Bridge and Structure Inspections

Staff Certifications

- Professional Traffic Operations Engineers
- IMSA Traffic Signal Technician
- ACI, NCAT, etc. Certified Inspectors
- Certified Flood Plain Managers
- FHWA Certified Bridge Inspectors

Additional Services

- Funding assistance
- Operations assistance
- HMI/SCADA integration
- Software application engineering
- Stormwater utilities
- Residuals management

Clients

Cities and Counties

Arkansas

- Little Rock
- North Little Rock
- Sherwood
- Springdale
- Fayetteville
- Rogers
- Bentonville

- Pulaski County
- White County

Mississippi

- Rankin County

Oklahoma

- Tulsa
- Oklahoma City
- Norman
- Jenks
- Sand Springs

- Tulsa County
- Choctaw County
- Latimer County

Texas

- Dallas
- Frisco
- Plano



Bridges

Garver has the expertise to provide a full range of structural design services for new and existing bridges, including steel and concrete superstructures, substructures, multi-level interchanges, retaining walls, and drainage and pedestrian structures. Our bridge designs range from short concrete spans on pile bents to major river crossings founded on dredged caissons. In addition, our staff offers expert bridge inspection services, including engineering reports and rehabilitation plans.

Roadways

Roadway design is a complex puzzle of intricate parts that involves separate but interconnected design decisions. With miles of designs under our belt, Garver's engineers are exceptional at considering all factors in developing an optimal and economical design. Our experience includes rehabilitation; overlay and widening; reconstruction; pavement design, condition analysis, rehabilitation, and reclamation; horizontal and vertical alignment improvements; drainage improvements; retaining walls; lighting; utility relocation design; and property acquisition document preparation.

Traffic

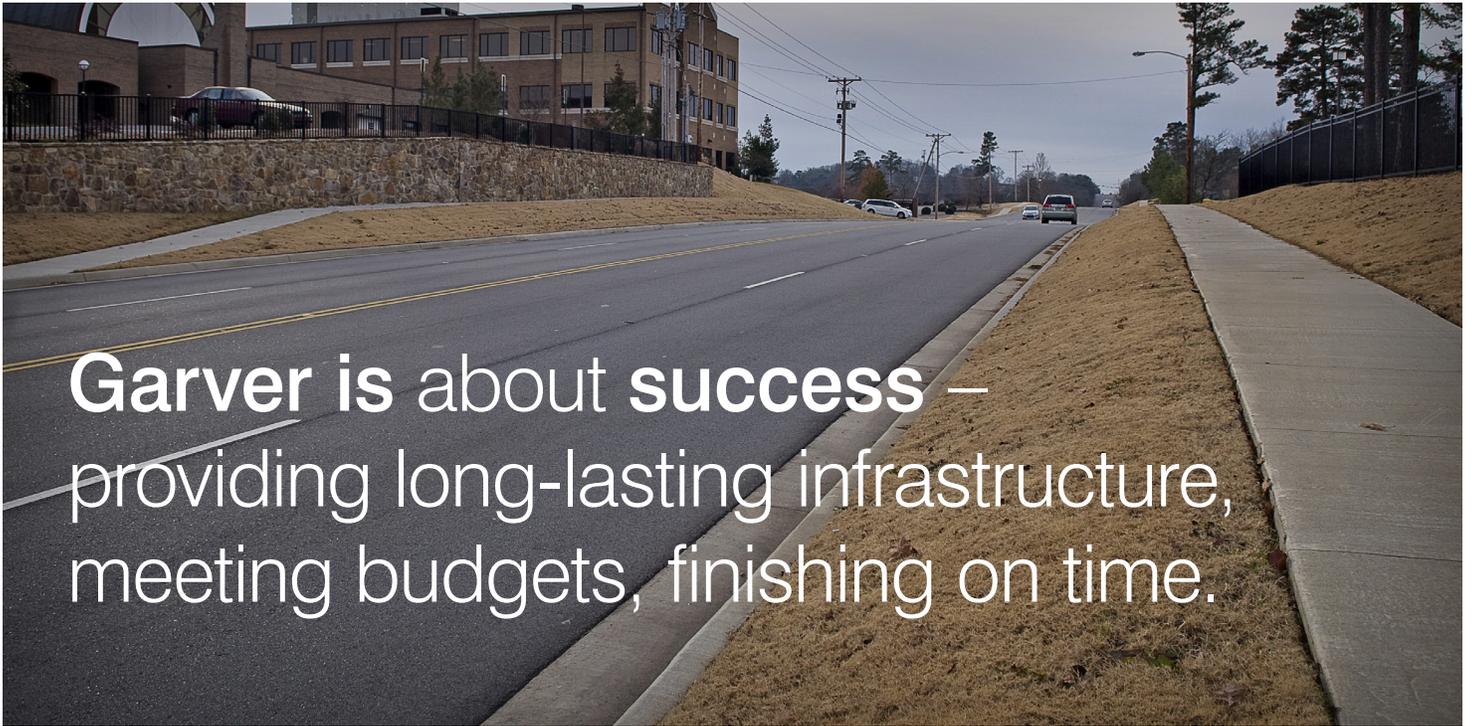
Our engineers use proven techniques to achieve the safe and efficient movement of people and goods. Our experienced staff analyze conditions and gather data, develop calming devices to improve pedestrian safety and control vehicular movement and speed, create signing plans, prepare maintenance of traffic plans to manage vehicular flow during construction, to inform motorists of changing traffic patterns through intelligent transportation systems, and design highly functional intersections with optimal signalization.

Pedestrian and Bicycle Facilities

Pedestrian facilities are essential in creating a balanced municipal transportation system. As part of our commitment to healthy and safe communities, Garver recognizes the importance of pedestrian-friendly environments. Our designs incorporate trails, bikeways, safe routes to school projects, ADA-compliant wheelchair ramps, pedestrian signals, and pedestrian/bicycle bridges.

Construction Engineering and Inspection

The Garver Construction Services Staff has the experience and ability to handle all of your project needs. We involve your staff and serve as your representative in the field—working with contractors and monitoring the quality of construction. Garver provides construction services ranging from periodic observation to full-time resident inspection services.



Garver is about **success** – providing long-lasting infrastructure, meeting budgets, finishing on time.

“Garver personnel were very **instrumental** in keeping the project moving. The project was substantially complete **three months ahead** of schedule.”

Ellen Norvell
City Engineer
Sherwood, Arkansas

“Garver’s design was just **flawless**; the entire process was **exceptional**. Garver provided a **great design**, and they answered every email and responded to every phone call in a **timely** manner during the construction process.”

John Burton
Construction Manager
Pulaski County, Arkansas

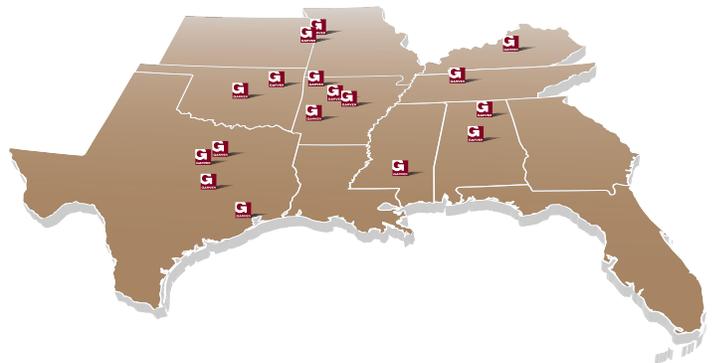


Frank (Blake)
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Garver is a multi-disciplined firm committed to quality in our designs, integrity in our relationships, and trust built through decades of exceptional attention to detail.



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