



12200 NW Ambassador Drive, Suite 205
 Kansas City, MO 64163
 816-298-6465
www.GarverUSA.com



November 15, 2013

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

Re: Roadway Design

Garver’s transportation professionals offer a valuable set of skills that makes us a trusted on-call resource. Garver has a history of successfully providing similar on-call services for departments of transportation in Alabama, Arkansas, Mississippi, Oklahoma, and Tennessee. Garver has the expertise and strength to provide services, and we are looking forward to providing engineering design services for county and municipal clients. Garver is on MoDOT’s approved consultant prequalification list.

GENERAL EXPERIENCE OF FIRM

Since 1919, Garver has provided quality designs and innovative solutions. Garver has more than 350 engineers, planners, technicians, surveyors, construction observers, and support personnel available company-wide. Garver has transportation project experience ranging from program management and studies to designing construction plans for projects up to \$240 million in construction costs. Garver understands the challenges that our clients face, and we strive to find the best solutions to those challenges. As transportation trends evolve and engineering practices advance, we are committed to staying ahead of the curve.

Typical projects include rehabilitation and widening with overlay, reconstruction, alignments on new location, intersection improvements, pavement design, improvements to horizontal and vertical alignments along existing and new locations, drainage improvements, retaining walls, lighting, utility relocation design, and property acquisition document preparation. For many years, our staff has worked on a variety of projects for municipalities and departments of transportation in Alabama (since 2004), Arkansas (since 1919), Kansas (since 1992), Mississippi (since 1987), Oklahoma (since 1985), and Tennessee (since 1988).

PAST PERFORMANCE

We have an extensive performance record with on-call contracts with our department of transportation clients, as detailed below and on the following pages, as well as shown graphically.

Garver has a nine-decade relationship with the Arkansas State Highway and Transportation Department, including consecutive on-call contracts since 2002. Projects include traffic signal design, Safe Routes to School, planning, surveys, roadway design, and bridge design. Reference: Trinity Smith, 501-569-2338

Garver has provided on-call roadway engineering services statewide for the Mississippi Department of Transportation since 2001. Reference: John Reese, 601-359-7288

For the Oklahoma Department of Transportation, Garver has completed project assignments for the state’s on-demand engineering services (including roadway, bridge, and traffic design) hydrology and hydraulic, bridge rehabilitation, on-demand bridge redecking and rehabilitation, load-posted bridge replacement, surveys, and construction engineering and inspection contracts. Reference: Tim Tegeler, PE, 405-521-3011

“ Improving Highway 65 provides travelers with a stress-free trip rather than a drive with all of the curves, hills and other problems associated with the previous route. The project flowed very smoothly in Garver’s hands. ”

~ Ralph Fulton, PE,
 District 9 Engineer,
 Arkansas State Highway and
 Transportation Department

QUALIFICATIONS OF PERSONNEL

Garver's roadway engineers combine the intricate parts of your project into an optimal design. We consider safety, economically optimized horizontal and vertical alignments, operational acceptability, environmental concerns, pavement design, drainage, and maintenance of traffic. Garver's Roadway Group is listed as one of the top 25 design firms according to *Road & Bridges' Go-To List*. 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.

Glynn Fulmer, PE is a Vice President with 29 years of engineering experience. His project experience includes designing and managing city and county streets; state, federal, and turnpike authority highways; rail; airport bridge structures; and grading, drainage, and paving projects.

John Cantabery, PE is a Roadway Team Leader in our Transportation Group with 10 years of experience. John's responsibilities include creating horizontal and vertical geometry for roadways, developing construction sequencing and maintenance of traffic plans, creating hydraulic models, developing pavement rehabilitation strategies, designing pavement structures, and developing freeway break-in-access documents. His project experience includes roadway and interchange design on interstate highway, rural highway, and urban street projects.

Ron Petrie, PE is a Senior Project Manager with 22 years of engineering experience. His responsibilities include managing the Local Government Transportation Team and providing project quality control. His experience includes serving 10 years as a city engineer for a large municipality, managing a local government transportation improvement bond program, and managing numerous municipal roadway improvement projects that utilized federal and state funds.

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.

FAMILIARITY/CAPABILITY

Over 90% of Garver's business is with municipal, state, and federal government clients, so we understand the specialized LPA regulations and permitting requirements of your planned improvements and will be diligent in complying with all requirements. Garver works hard to maintain our knowledge and excellent working relationship with various agencies.

Garver routinely delivers projects with federal funding. Listed below are representative projects meeting federal requirements.



U.S. Highway 75 Improvements, Woodson County, Kansas

Garver prepared design plans to rehabilitate 10.53 miles of U.S. Highway 75 along the existing alignment. The roadway was evaluated for a mill and overlay with light grading and guard fence.

This roadway evaluation was used to determine the necessary right-of-way requirements and utility relocations. The existing typical section lane and shoulder widths will remain unchanged; however, the thickness of the pavement will change as a result of the moderate mill and overlay operations.

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



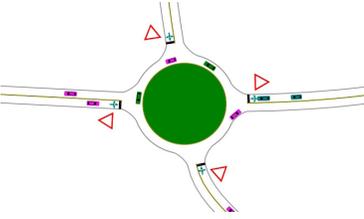
Bridge Repair,
Retrofit, and Scour Analysis: 1991, 1993,
1997, 2001, 2006, and 2010

CE&I: 2011



Don Tyson Parkway Interchange, Springdale, Arkansas

Garver is under contract for services related to break-in-access, environmental handling, and design of a new interchange on I-540 in Springdale. The project also includes extending Don Tyson Parkway from 48th Street to 56th Street, including intersection improvements and signalization at both ends of the project. Garver’s responsibilities include design and property surveys; a traffic study; conceptual, preliminary, and final design (construction contract documents) submittals; property acquisition documents; and bidding services. Garver’s services also include facilitating public meetings for residents during design and coordinating with utility companies.



Maryland Avenue Improvements and Extension, Sherwood, Arkansas

This project was proposed to complete an east-to-west minor arterial. The Maryland Avenue improvements include reconstructing approximately 4,000 feet of roadway, including curb and gutter and sidewalks. The project also includes adding 1,800 feet of newly constructed roadway to connect to existing sections of the route. The project was administered by a local public agency with federally funding and Arkansas State and Highway Transportation Department oversight.



Greenwich Connection, City of Russellville, Arkansas

Garver prepared design plans to construct a two-lane curbed roadway with a multi-cell box culvert for North Greenwich Avenue from East B Street to East C Street.

Lynn Creek Crossing, City of Fairfield Bay, Arkansas

Garver is providing planning, design, permits, and constructing engineering and inspection services to replace a large box/bridge and 800 feet of roadway approaches, including raising West Cliff Drive.

ACCESSIBILITY

Garver’s breadth of experience and personnel enables our teams to quickly react to client and project needs. Garver’s offices in Kansas City, Missouri; Tulsa, Oklahoma; and Fayetteville and North Little Rock, Arkansas are within driving distance of project locations throughout the state. Our staff’s capacity allows us to respond promptly to any project needs, including site visits and meetings. 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

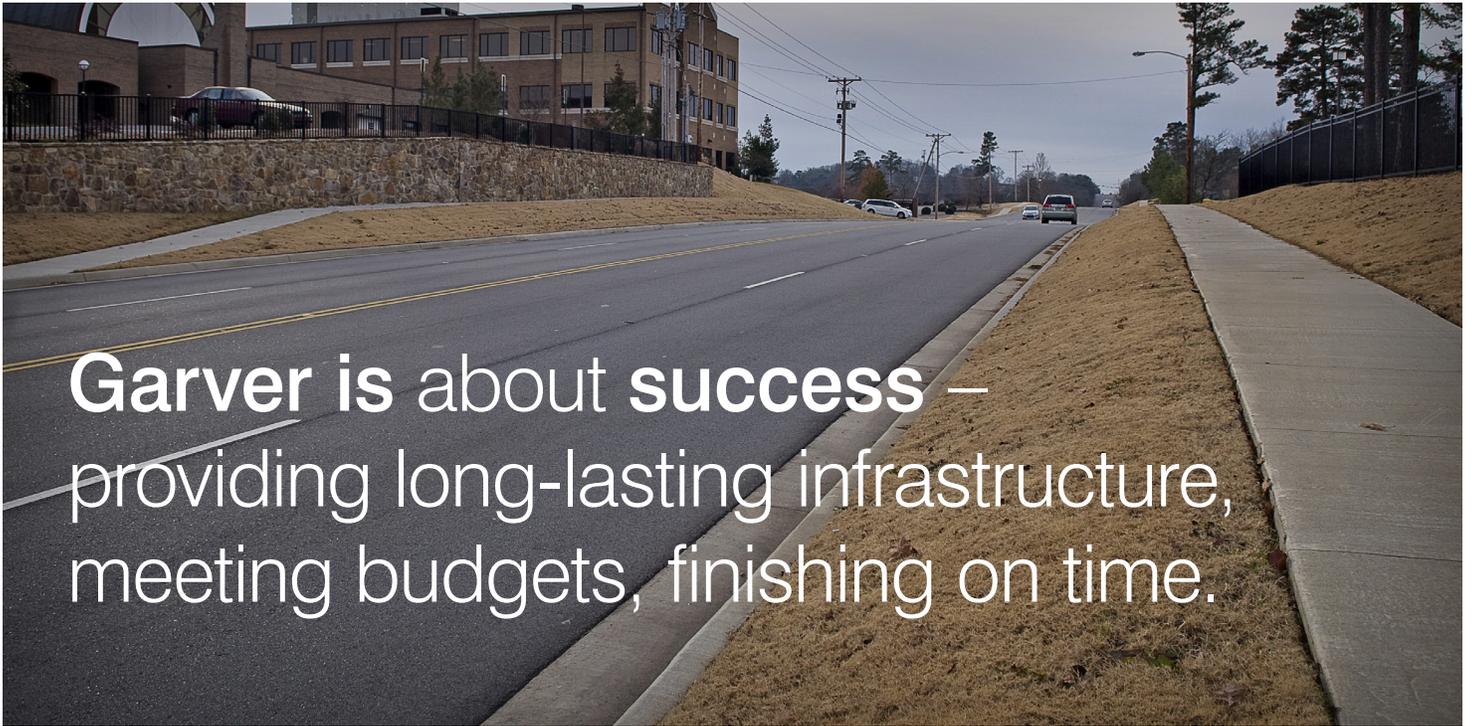
Our engineers use proven techniques to achieve the safe and efficient movement of people and goods. Our experienced staff analyze conditions and gather data, develop calming devices to improve pedestrian safety and control vehicular movement and speed, create signing plans, prepare maintenance of traffic 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

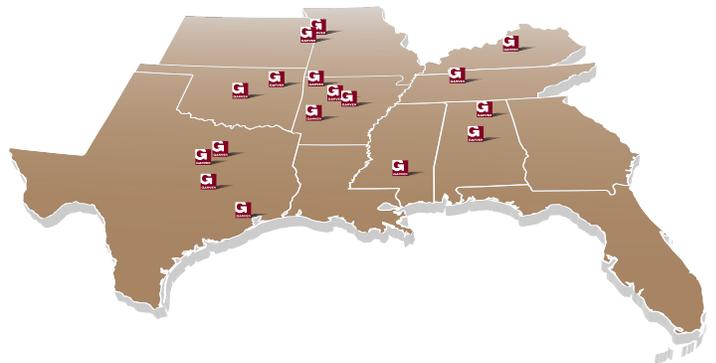


Frank (Blake)
Blakemore, PE

816-506-7426
FPBlakemore@GarverUSA.com

Kansas City Offices
12200 N.W. Ambassador Drive
Suite 205
Kansas City, MO 64163

5251 West 116th Place
Suite 200
Leawood, KS 66211



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.



GarverUSA.com