



Infrastructure Quarterly®
4701 Northshore Drive
North Little Rock, AR 72118



DALLAS LOVE FIELD TAXIWAY BRAVO REHABILITATION
Dallas, Texas

IQ

Infrastructure Quarterly®
2019 Volume 11 Issue 1

102
GARVER
CENTENNIAL



GarverUSA.com

Director's Insight

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For 100 years, communities have trusted Garver to help improve their necessary infrastructure, building on a legacy started by our founder, Neal Garver, way back in 1919.

Our dedication to quality service is never going to change, even as we grow into new markets and expand our service offerings. But we're definitely in for an exciting 2019 — our centennial year — because we know not many companies get to have such a celebration. We're kicking that off by connecting with those who have been the most integral in our growth — our clients, and our communities. Throughout the year, we'll be hosting a series of client appreciation events across the Garver footprint. In addition, we're providing STEM kits and financial donations to 100 schools and encouraging students to make their own Rube Goldberg-style chain reaction

contraptions, as they begin their path to becoming future engineers.

We've also begun our leadership transition process, with Brock Hoskins taking over as president while I spend 2019 as chief executive officer before retiring at the end of the year. I couldn't be more proud of how Garver has evolved from when I got here in 1982, to where we are now, with nearly 600 employees in 28 offices. And I know Brock, who I first met when he was a Garver intern, is the perfect choice to lead us into our second century.

So, follow along as we take this year to celebrate how a series of events that began a century ago continues to impact our clients, our employees, and our communities.

A stylized, handwritten signature in dark ink, appearing to read "Dan".

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CELEBRATING
ONE HUNDRED
YEARS

1919 to 2019

We're invested in making a difference.

With a century of experience behind us, Garver knows the importance of investing in the future. Learn how Garver is encouraging the next generation of engineers at [GarverUSA.com/Centennial](https://www.garverusa.com/Centennial).

Transportation Planning and Environmental Team

EXPANDING OUR IMPACT

Garver has been analyzing the effects projects have on the human and natural environment for decades. Now, with expanded staff located in Arkansas, Louisiana, Oklahoma, and Texas, Garver’s expert Transportation Planning and Environmental Team can serve a larger geographic area while providing solutions to a more varied list of projects.

“We’ve strategically built our team around experts who make the transition from the planning and environmental process into the next phase of project development as seamless as possible,” said Transportation Planning and Environmental Team Leader Wendy Travis.

Intent on increasing the reach, flexibility, and specialization of its team, Garver added, among others, April English in New Orleans for additional air quality analysis support; and Sean Wray in Austin, Texas, for expanded GIS services. The added experts help Garver work with every type of local, state, and federal agency on alignment studies, NEPA documentation, and public involvement for the projects custom-fit to their needs.

The expanded team is assisting on some of Garver’s most impactful projects, like the Kaw Lake Water Supply program, which will replenish a depleting water supply for the City of Enid, Oklahoma; and the I-35 Northeast Expansion project, a major capacity improvement in San Antonio.

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ALL LOCATIONS

Dallas Love Field Taxiway Bravo Rehabilitation

EFFICIENT RECONFIGURATION

One of the country’s fastest-growing airports, Dallas Love Field, serves more than 7 million passengers annually, but its primary taxiway system had not undergone a major reconstruction in decades, leading to a low Pavement Condition Index rating of 45. To correct failing pavement and increase efficiency of the airfield, Garver is providing design and construction oversight for a four-phased improvement program that will create a dual parallel taxiway system.

Reconstruction of Taxiway Bravo, made difficult by its proximity to a new terminal building, marked the first phase. Construction of new Taxiway M is ongoing, and required the relocation of a glide slope antenna, runway visual range equipment, a National Weather Service automated surface observation station, and a FAA surface weather station. The improvements will remake Taxiway M into a full-length parallel taxiway for Runway 13L-31R, and replace failing pavement sections on Taxiway B without impeding growth.

“It’s crucial that these improvements are made without any interruption to passengers,” said Project Manager Mitchell McAnally. “And we’re proud to say the 425-day Phase 1 schedule was completed without a single gate closure.”

Construction has begun on Phase 2, while design is ongoing for Phases 3 and 4. The result will not only include improved pavement, but also a reconfigured parallel taxiway system that will boost Dallas Love Field’s continued growth.

Mitchell McAnally, PE | Project Manager
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Rogers Water Utilities Solids Handling Facility

ALTERNATIVE PROJECT DELIVERY

Rogers Water Utilities will see the benefits of Garver's design upgrades to its Solids Handling Facility much sooner through the use of a Construction Management At-Risk (CMAR) delivery method than if delivered by traditional methods.

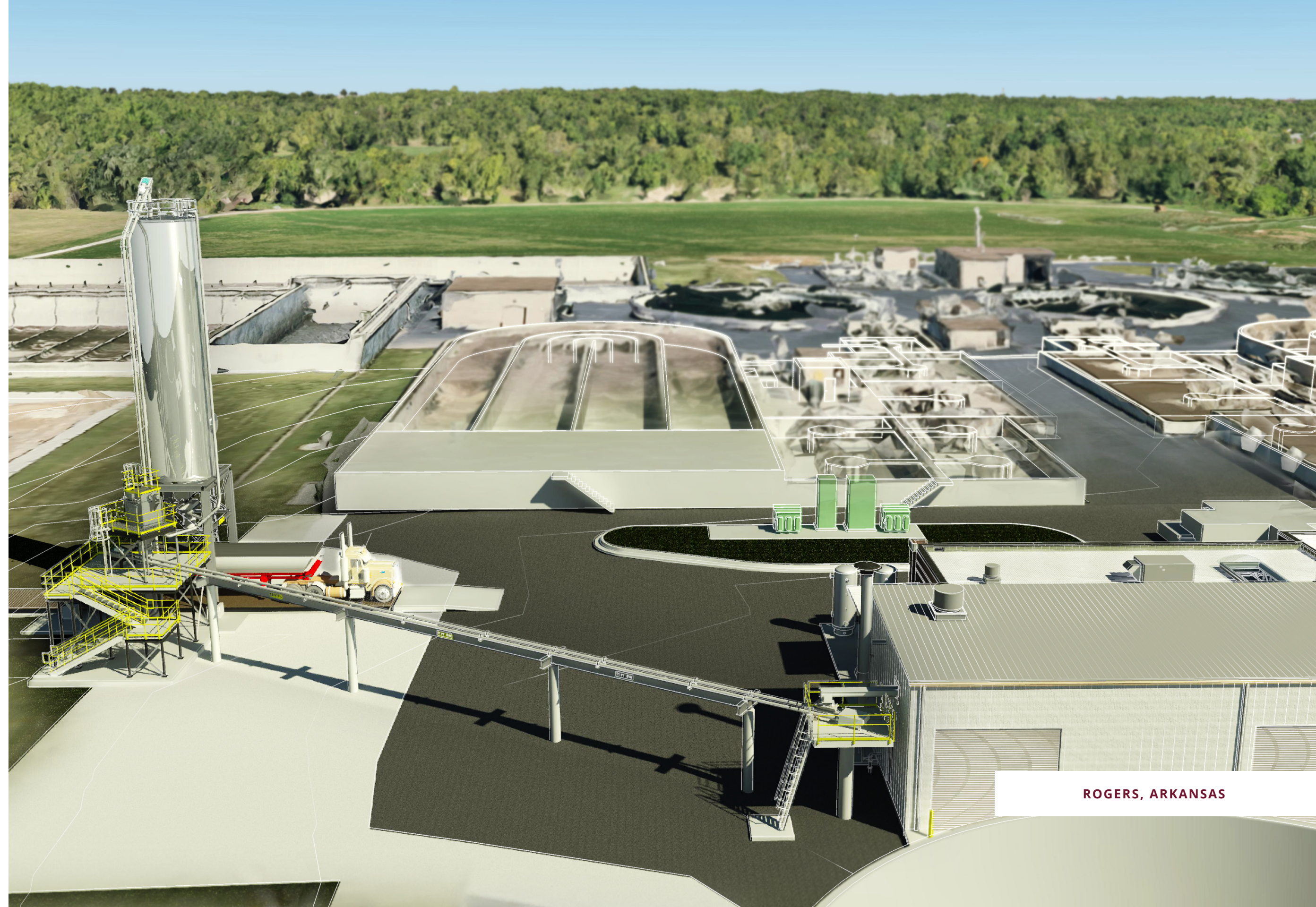
In one of the first CMAR projects executed in Arkansas, Garver collaborated with the contractor during the design process to accelerate the project timeline. At 60 percent design, the contractor developed a guaranteed maximum price of \$7.8 million, which has been approved by RWU, allowing it to order long lead-time equipment to reduce construction time.

"Typically, this project would take up to 15 months from design to the start of construction," said Arkansas Water Team Leader Joe Dollerschell. "CMAR has allowed us to cut that to nine months, saving RWU valuable time and money."

While considering the area's rapid growth, Garver's design focused on the safety of operations staff, a more flexible solids drying, conveying, handling, and storage option, as well as increased efficiency.

Phase 1 improvements will include a new tubular drag conveyance system for easy movement and storage of Class A dried biosolids, a bulk material storage silo, an access road, lab space, and a control room for employees to safely monitor operations.

Joe Dollerschell, PE | Arkansas Water Team Leader
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ROGERS, ARKANSAS

OTA Driving Forward Turner Turnpike Expansion

IMPROVING FOR SAFETY

For decades, I-44 has linked Oklahoma's two largest cities while providing a vital route for cross-country travelers from St. Louis to north Texas. Now, traveling through northeast Oklahoma is much safer and more efficient.

Garver's preliminary engineering study for the Oklahoma Turnpike Authority to widen a 20-mile stretch of the Turner Turnpike from four to six lanes, and final design for a critical seven-mile stretch, established design standards for remaining segments. The study included traffic analysis, with the consideration of toll plazas, interchange concepts, and multiple alignment options. Final design was part of the ongoing Driving Forward Program and included seven bridge replacements with improved vertical clearances, and median lighting. Both design and construction plans were completed in seven months to help meet OTA's timeline. Garver also created bid plans for traffic surveillance and driver assistance during construction, which included tow capabilities and other essentials that kept traffic moving.

"These types of plans have never been executed in the state, and so far, over 1,400 driver-assistance tickets have been serviced by the contractor within the construction zone," said Project Manager Jenny Sallee.

The improvements effect 50,000 travelers per day, and Garver's impact continues through construction management services on other Driving Forward projects.

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SOUTHWEST OF TULSA, OKLAHOMA