

ACPA » Project Profile

Malloy Bridge Road East of IH 45 Emergency Repair Project

The Malloy Bridge Road Emergency Repair Project was a rapid-response infrastructure effort addressing a critical roadway failure in southern Dallas County, Texas. Located just two miles west of the newly opened Loop 9 project by TxDOT, the sinkhole threatened a vital truck corridor and required immediate action. Through quick coordination, resourceful planning, and the use of stored reinforced concrete box culverts, the project restored safe travel while showcasing the long-term value of resilient concrete infrastructure.

Project Schedule

The issue was first identified in March 2024, when a sinkhole appeared on Malloy Bridge Road. Dallas County staff responded quickly by closing approximately 1,000 linear feet of roadway. Thanks to the presence of a nearby parallel route, traffic impacts were minimal. By October 2024, Dallas County awarded a contract to Rambo Contracting to carry out the emergency repair. The work proceeded without delay, and the road was officially reopened to traffic in February 2025, shortly after the completion and opening of Loop 9. The project was completed on an accelerated timeline with no change orders, underscoring the effectiveness of the team's planning and execution.

Construction Approach

The emergency repair centered around replacing the failed corrugated metal pipe that had caused the sinkhole. Fortunately, Dallas County had surplus reinforced concrete box culverts from a previous Capital Improvement Project, which were stored at the Road and Bridge yard in southern Dallas County. These culverts were repurposed for the repair, offering a cost-effective and sustainable solution. A consulting engineer was quickly brought on board to develop construction plans, and Rambo Contracting collaborated with both the consultant and County staff to refine and implement the scope. The design also included a new concrete headwall, drainage easements, and erosion control measures to protect an unnamed tributary of Ten Mile Creek.

Challenges and Solutions

While the initial roadway failure posed a serious risk to infrastructure and public safety, the project team was able to mobilize swiftly. By leveraging available materials and maintaining open lines of communication among stakeholders, the repair was expedited without compromise. Additional project elements—such as guardrail installation, earthwork, asphalt paving, and striping—were completed efficiently and contributed to a seamless re-opening.

Impact

This project exemplifies the durability and adaptability of concrete box culverts in emergency response scenarios. Through resourceful planning, collaboration, and sustainable design choices, Dallas County successfully restored a critical roadway link in record time—enhancing regional safety and resilience.

Project Profile

Location

Dallas County, Texas

Installation Completed

February 2025

Project Owner

Dallas County

Contractor

Rambo Contracting

ACPA Producer

Thompson Pipe Group

Engineer/Designer

APM & Associates, Inc.

» Box Culvert, Resilient Infrastructure, Emergency Repair