

Overcoming logistical complexities delivered \$1M in savings to FedEx



FedEx Secondary 25

Memphis, TN

CHALLENGE

FedEx constructed the first of two facilities at the Memphis International Airport in 2019. The second facility was constructed in 2024. As an active hub, site access and construction speed were a great concern for the owner. The initial design for the second facility included a deep foundation system which was not the most economical solution when compared to a Geopier Solution.

GEOPIER® SOLUTION

Geopier utilized its X1® Drilled Rammed Aggregate Pier® System using cement treated aggregate (CTA) for construction. The use of CTA allowed for a design bearing pressure of 9,000 psf. The use of this non-traditional aggregate for pier construction was essential to providing a ground improvement system to meet the design needs for foundation support. **Overall, the X1 solution helped FedEx save \$1 million compared to the original auger cast piles.** Finally, the Geopier solution included the special coordination of equipment and aggregate deliveries so that shipping and normal business operations were not disrupted.

“The engineers and contractors were very good to work with. I feel it was a true collaborative effort. The experience and speed of construction were great, and the ability to resolve problems.”

Eric Lyon | Yates Construction

GEOPIER®

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PROJECT TEAM

Owner

FedEx

General Contractor

Yates Construction

Geotechnical Engineer

UES

Structural Engineer

Chat Stewart & Associates

Licensee

PCI



Geopier installation site

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