



PROJECT PARTNERS

Seminole County Public Works
Solmax
Presto Geosystems

FLEXIBLE RETAINING WALL PERFORMANCE IN A CONSTRAINED CANAL CORRIDOR

RETAINING WALL

CONVEYANCE CHANNEL

SOIL STABILIZATION

DE LEON STREET & SOLARY CANAL CHANNEL STABILIZATION

THE CHALLENGE

Along the De Leon Street and Solary Canal corridor in Seminole County, Florida, the project team faced a difficult combination of narrow work zones, channel-side construction, variable soils, and long-term drainage requirements.

The retaining wall system needed to stabilize the canal edge, support nearby roadway infrastructure, and maintain reliable performance within a moisture-prone environment where settlement, drainage, and constructability all mattered.

Traditional rigid wall systems can be difficult to install in tight corridors and less adaptable where subsurface conditions vary. The County required a solution that balanced structural support, flexibility, and practical field installation.

THE SOLUTION

R. H. Moore & Associates, a Nexterra company, supported implementation of a Presto GEOWEB® retaining wall system reinforced with Solmax Mirafi® 2XT geogrid to create a flexible, durable earth retention solution designed for conveyance channel conditions.

Invested in your teams success!



ENGINEERED CHANNEL STABILIZATION FOR REAL FIELD CONDITIONS



The cellular confinement wall system provided structural soil confinement while Mirafi® 2XT reinforced the retained soil mass behind the wall. The permeable wall design supported water movement through the system, helping reduce hydrostatic pressure concerns commonly associated with rigid retaining structures.

Lightweight modular components also improved constructability along the constrained canal corridor where access, staging, and equipment movement were limited.

THE RESULTS

The completed GEOWEB® retaining wall delivered a durable, reinforced solution for the De Leon Street and Solary Canal corridor, balancing stability, drainage, and constructability in a constrained environment.

The system stabilized the canal edge, supported adjacent infrastructure, and provided reliable performance in variable soil conditions. Its permeable design helped manage water movement and reduce hydrostatic pressure concerns, while lightweight modular components simplified installation within the tight project footprint.

For R. H. Moore & Associates, the project demonstrates how reinforced cellular confinement technology can support channel stabilization and infrastructure protection where conventional retaining systems may be less adaptable.



R. H. Moore & Associates, Inc. was established in 1982 and has continued to represent the industry's leading manufacturers of erosion control systems and products exclusively throughout the state of Florida.

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