



PROJECT PROFILE



The Landmark retaining wall system was used to create an economical solution for two land bridges across the 75-foot drop between the church and overflow parking

WORD OF FAITH MINISTRY POWDER SPRINGS, GEORGIA

PRODUCT

Landmark retaining wall system

MANUFACTURER

Pavestone Company
Atlanta, Georgia

WALL DESIGN ENGINEER

Value Engineering Co, Inc.
Alpharetta, Georgia

SITE CONTRACTOR

Century Builders
Houston, Texas

WALL CONTRACTOR

Value Engineering Co, Inc.
Alpharetta, Georgia

WALL DIMENSIONS

60,000 square feet
Heights varied, up to 61 feet

THE CHALLENGE

The Word of Faith Ministry is a large and growing congregation. To meet the congregation's needs for more space, they decided to build a new facility. A large creek flows through the center of the wooded site that was chosen. The 75-foot drop from the church to the creek made it impossible to reach overflow parking. To make the site work, two bridges were required.

EVALUATED BY HITEC IN THE UNITED STATES, RTA IN AUSTRALIA AND BBA IN THE UNITED KINGDOM.

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THE SOLUTION

As a specialist in segmental retaining walls, Norm Amend, wall design engineer at Value Engineering Co., realized a land bridge would be a viable solution that was more economical than the proposed bridges.

The Landmark retaining wall system was chosen for the land bridge because the mechanical connection to geosynthetic reinforcement made it possible to build the tall structure that was required. Ultimately, the land bridge became the tallest segmental retaining wall structure the firm has built, at 61 feet. The paved road across the bridge is only 40 feet wide. To provide drainage, the land bridge structures have two six-foot-diameter culverts through the walls.

When the project was completed, seven walls had been built on the site, ranging in length from 114 feet to 981 feet. Native silty-sand soils were used for the reinforced fill.

THE RESULT

The congregation was able to build a new facility with adequate parking on a challenging site.



To provide drainage, the land bridge structures have two six-foot-diameter culverts through the 61-foot-high walls.



This land bridge provides much needed access to overflow parking.

HITEC-EVALUATED

For high performance under extreme loading conditions, the Landmark retaining wall system is a cost-effective option evaluated by HITEC. The Landmark system features a unique mechanical connection, which allows the system to generate extremely high connection values, independent of blocks above the connection. Developed specifically to meet the high standards of the transportation industry, the performance features of the Landmark system make cost-effective design solutions possible using either the American Association of State Highway and Transportation Officials (AASHTO) or the National Concrete Masonry Association (NCMA) design methodology.

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