

POROUS PAVEMENT DRIVEWAY

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ROADWAY REINFORCEMENT

GEOPAVE GRAVEL PAVERS

SOFT GROUND, SHARP CURVES, NO EASY ANSWERS

THE CHALLENGE

The primary purpose of the driveway design was aesthetics: the homeowner wanted a natural-stone look that would complement the existing stamped concrete pad near the garage and fit the riverfront landscape. The system also needed to follow the curves of a long, winding layout and perform reliably over soft soil conditions along the Tennessee River. The project required a permeable, flexible, and affordable surface that could be shaped to the site without sacrificing structural integrity, vehicle access, or long-term stormwater performance.

PROJECT DETAILS

- **Location:** Knoxville, TN
- **Size:** 3,100 square feet
- **Installed:** December 2024
- **Special Features:** Two curved sections; riverfront site with soft soil conditions

SHAPED TO THE LAND. BUILT TO LAST.



WHY GEOPAVE

A structural framework holds highly-permeable, open-graded base course in place through a unique herringbone cell pattern and monolithic mesh bottom.

- Field-cut flexibility
- Cost-effective alternative
- Stormwater infiltration
- Superior load distribution
- Low base requirements

THE SOLUTION

Jen-Hill, a Nexterra company, supplied Presto Geosystems' GEOPAVE Gravel Paver system for the project. GEOPAVE panels were installed across the 3,100-square-foot driveway and infilled with open-graded decorative stone. The finished system created a stable, high-strength surface with the natural-stone appearance the homeowner wanted while supporting stormwater percolation and reducing runoff into the adjacent river corridor.

A key advantage is that GEOPAVE is designed for fast, efficient installation. The panels can be driven on while unfilled, helping accelerate installation and maintain site access throughout the project. Panels can also be modified in the field to accommodate curves and bends with little waste. On this driveway, field modifications produced a precise fit through two curved sections. The shared-wall system, interlocking connection clips, and load-spreading mesh bottom work together to resist rutting and shifting under daily vehicle traffic.

THE RESULTS

The completed driveway delivers the natural-stone appearance the homeowner wanted together with affordability, durability, and environmental performance. The decorative stone infill blends naturally with the surrounding landscape, while the permeable base system captures and manages stormwater on-site and reduces runoff toward the adjacent river corridor. Field-modified panels produced a precise, clean fit through both curved sections, and the load-distribution structure provides a stable surface for daily vehicle traffic.



Jen-Hill Construction Materials is family owned and operated. Since 1991, Jen-Hill has worked with contractors, engineers, and government agencies to solve problems with innovative products and services.

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