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GEOPAVE®

Gravel Porous Pavement

Design Resource Package

GRAVEL PAVERS

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Design Resources

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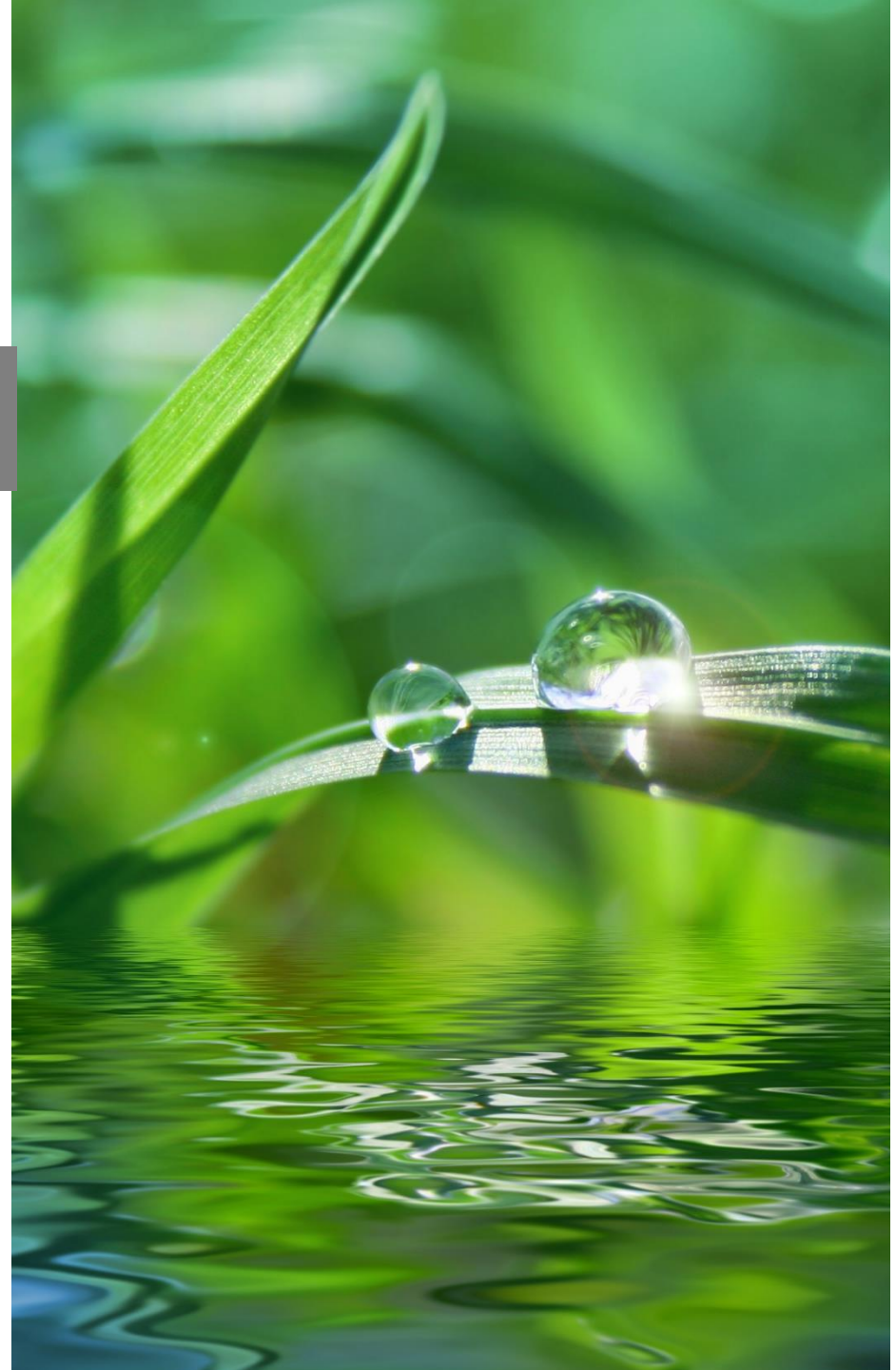

GEOPAVE

Gravel Porous Pavements

DESIGN HIGHLY PERMEABLE, SUSTAINABLE GRAVEL PAVEMENTS

Design structural pavements to resist rigorous traffic loading & stresses.

Meet stormwater goals & green infrastructure initiatives for infiltrating water at its source to reduce runoff.

Mitigate flooding potential with on-site stormwater storage to capture & return water to the natural aquifer.

This design package will equip you with tools & resources to design sustainable porous pavements.

Learn About GEOPAVE Pavers

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See how the System Works

Learn how the GEOPAVE Porous Paver Systems work—and how they can work for your project.

- Overview Brochure
- Visit our Photo Gallery
- See Project Case Studies

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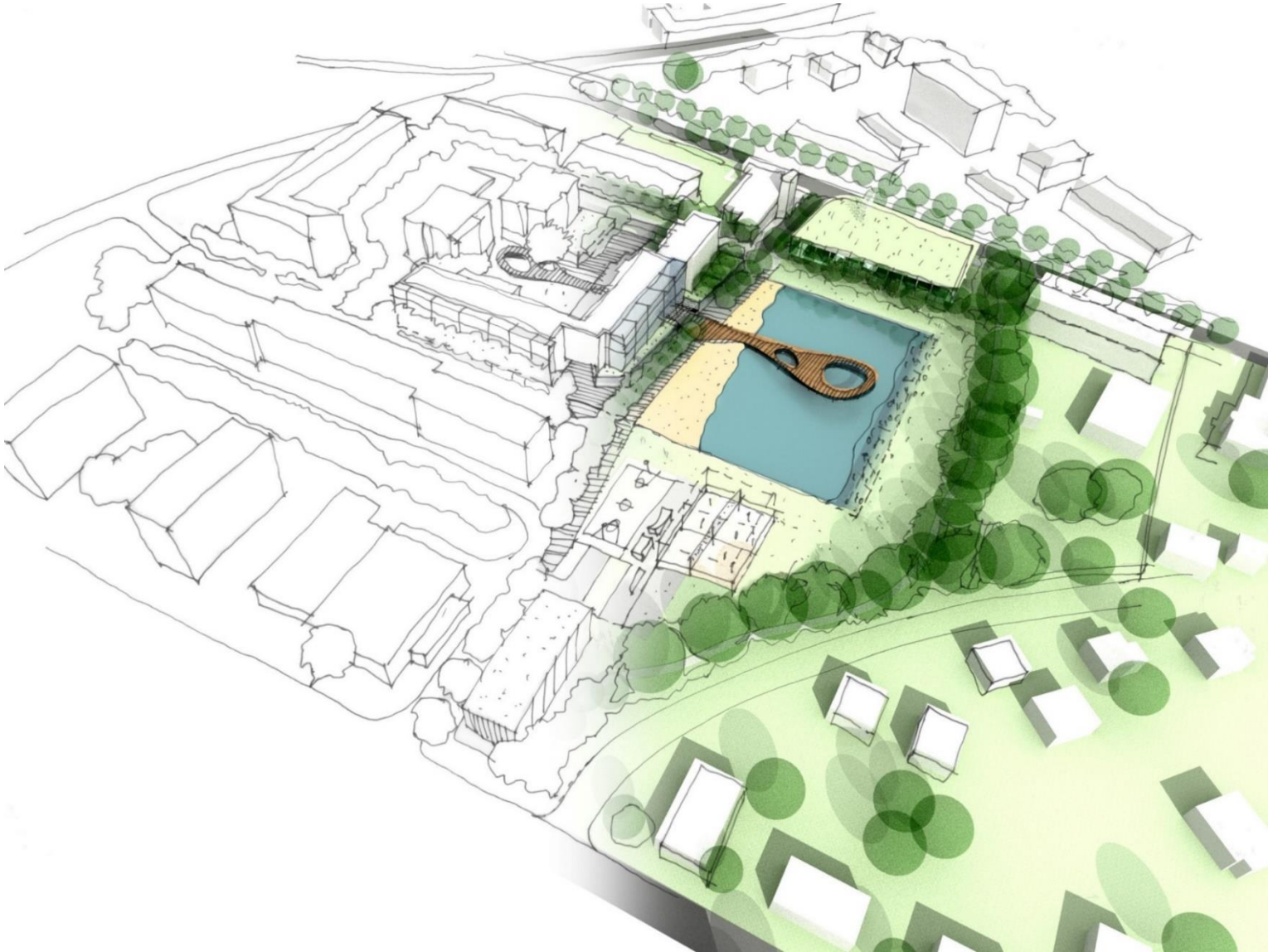
Green Building Initiatives

Green Building Credits

GEOPAVE pavements can contribute to green building initiatives by:

- Building with a minimal footprint & reducing site disruption
- Reducing impervious cover, promoting infiltration & capturing runoff
- Reducing the heat island effect
- Using materials with recycled content

Learn About Green Building Credits >>



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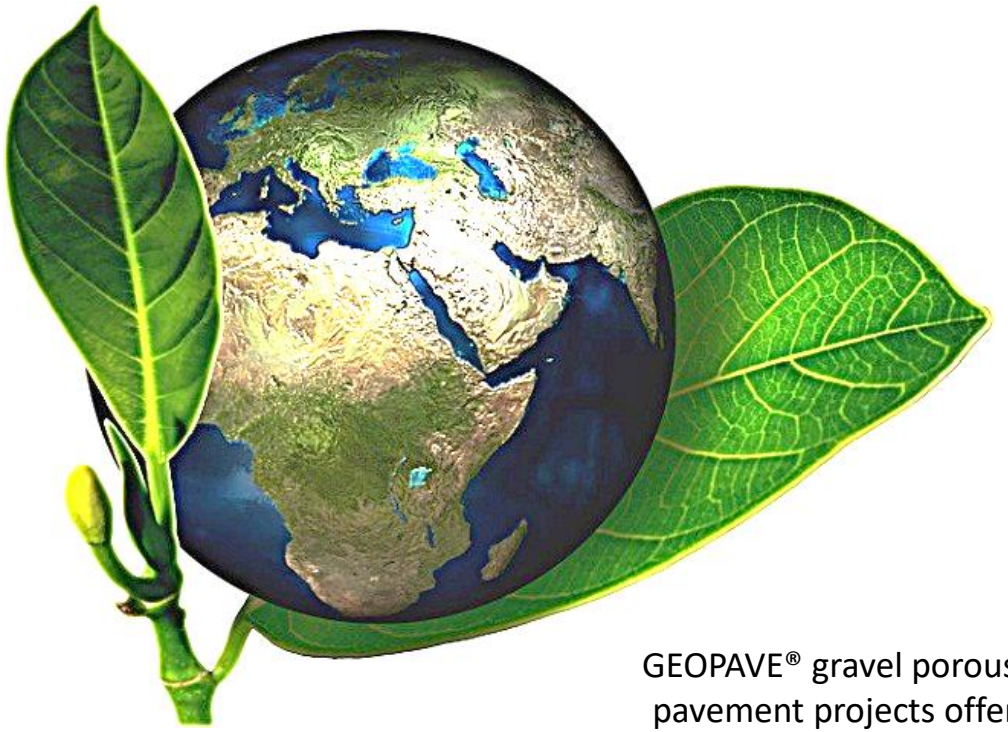

Environmental Benefits

[Download the Green Sheet >>]

GEOPAVE® gravel porous pavement projects offer lower environmental impact than alternative solutions.

Energy Use

Resource Savings

Land Use

Water Benefit

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Managing Stormwater

View recorded webinar and earn PDH credits.

WEBINAR

Managing Stormwater Through Green Infrastructure & Low Impact Development >>

Designing Soft-Armored & Hard-Armored Retaining Walls Presented by Sam Justice, P.E.

View Webinar

Repair & Reduce Slope Erosion Using the GEOWEB System Presented by José Pablo George

View Webinar

Managing Stormwater Through Green Infrastructure & Low Impact Development Presented by Sam Justice

View Webinar

View All Webinars >>

Create a Specification

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Fast & Easy Specification Tools

Create your own custom specification

- CSI Specification (Word doc)
- Specification Summary

Evaluate Pavement Scenarios

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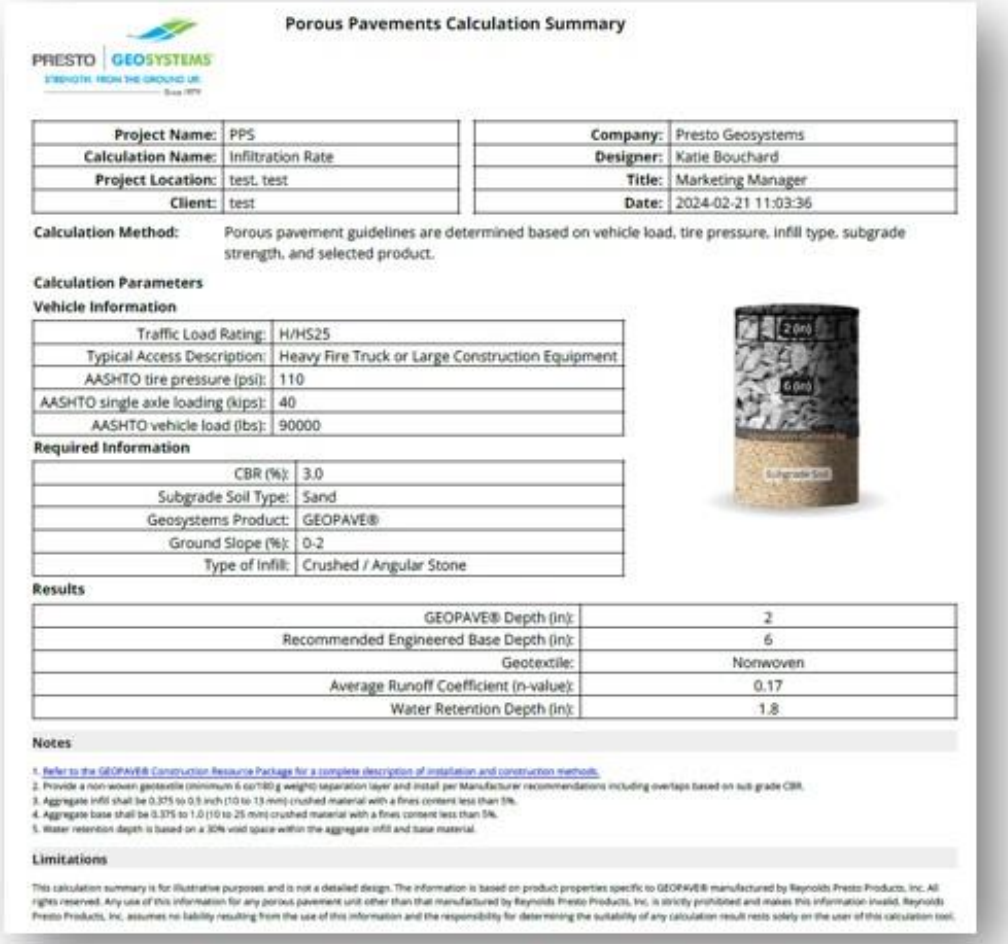
Interactive Porous Pavement Design Assistant

Evaluate best pavement options for site conditions and expected use.

Plan stormwater storage and create quick cross-section details for your project.

PRESTO GEO P3
Project Planning Portal

Sign Up For P³: A Project Planning Portal >>



Porous Pavements Calculation Summary

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Project Name:	PPS	**Company:**	Presto Geosystems
Calculation Name:	Infiltration Rate	**Designer:**	Katie Bouchard
Project Location:	test, test	**Title:**	Marketing Manager
Client:	test	**Date:**	2024-02-21 11:03:36

Calculation Method: Porous pavement guidelines are determined based on vehicle load, tire pressure, infill type, subgrade strength, and selected product.

Calculation Parameters

Vehicle Information

Traffic Load Rating:	H/HS25
Typical Access Description:	Heavy Fire Truck or Large Construction Equipment
AASHTO tire pressure (psi):	110
AASHTO single axle loading (kips):	40
AASHTO vehicle load (lbs):	90000

Required Information

CBR (%):	3.0
Subgrade Soil Type:	Sand
Geosystems Product:	GEOPAVE®
Ground Slope (%):	0-2
Type of Infill:	Crushed / Angular Stone

Results

GEOPAVE® Depth (in):	2
Recommended Engineered Base Depth (in):	6
Geotextile:	Nonwoven
Average Runoff Coefficient (n-value):	0.17
Water Retention Depth (in):	1.8

Notes

1. Refer to the GEOPAVE® Construction Resource Package for a complete description of installation and construction methods.
2. Provide a non-woven geotextile (minimum 6 oz/180 g weight) separation layer and install per Manufacturer recommendations including overlaps based on sub grade CBR.
3. Aggregate infill shall be 0.375 to 0.5 inch (10 to 13 mm) crushed material with a fines content less than 5%.
4. Aggregate base shall be 0.375 to 1.0 (10 to 25 mm) crushed material with a fines content less than 5%.
5. Water retention depth is based on a 30% void space within the aggregate infill and base material.

Limitations

This calculation summary is for illustrative purposes and is not a detailed design. The information is based on product properties specific to GEOPAVE® manufactured by Reynolds Presto Products, Inc. All rights reserved. Any use of this information for any porous pavement unit other than that manufactured by Reynolds Presto Products, Inc. is strictly prohibited and makes this information invalid. Reynolds Presto Products, Inc. assumes no liability resulting from the use of this information and the responsibility for determining the suitability of any calculation result rests solely on the user of this calculation tool.

CAD Detail Drawings

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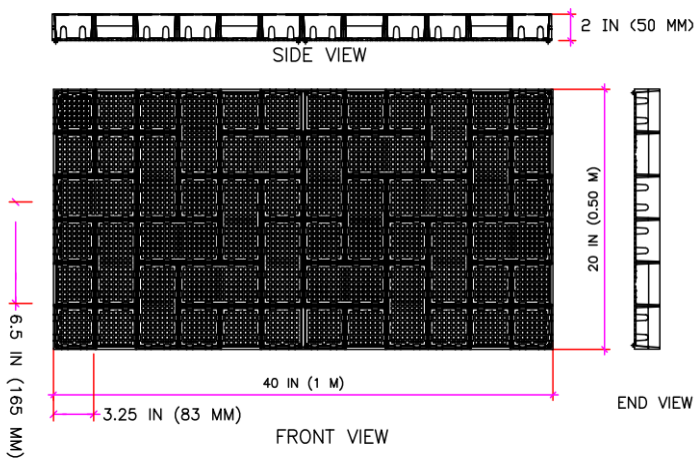
Cross-Section Drawings

Find all the drawing details you need to include in your contract documents.

[CAD Drawings >>]



Watch Videos

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See Product in Action

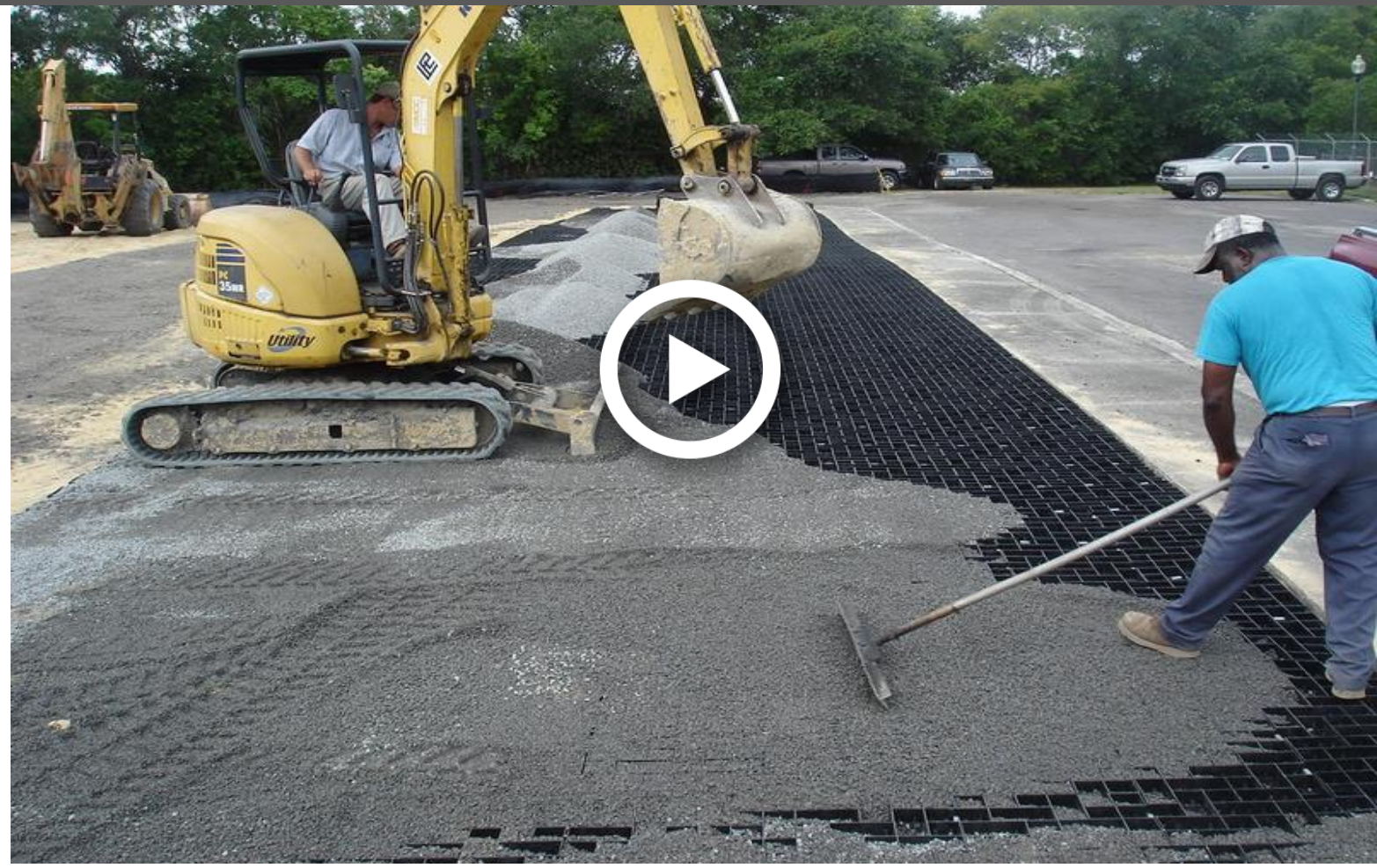
Visit Video Gallery >>

Watch Cross-Section Animation >>

Project Installations

Permeable Parking Drone Footage >>

Parking & Walkways at The Ridges Sanctuary >>



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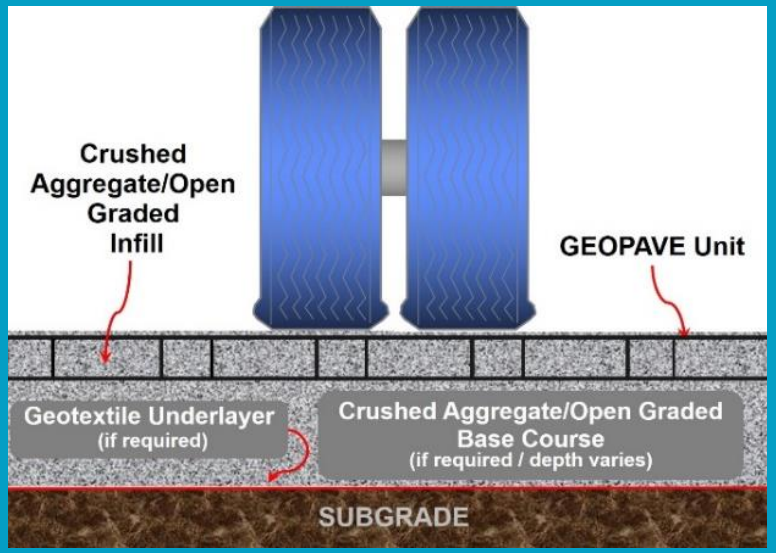
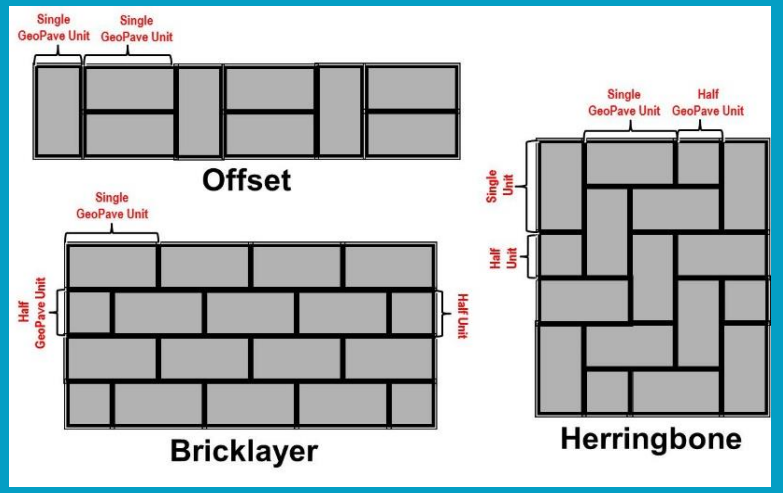
Design & Construction Data

Evaluate How GEOPAVE Porous Pavements Work

Learn about the technical details, design considerations and methods important to designing and constructing GEOPAVE porous pavements.

Read Design & Construction Guide >>





Porous Pavement Applications

Learn how the GEOPAVE Porous Pavement System's versatility in a wide range of applications will benefit your pavement project's performance, environmental goals and stormwater management initiatives.

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Urban Runoff Control

Fire & Utility Access

- Design stable gravel emergency and maintenance access lanes for cars and trucks (to HS25 loading) to resist heavy loading stresses.
- Use open-graded aggregate base and infill for fast infiltration and stormwater runoff reduction.

LEARN MORE

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Green Infrastructure Design

Roadway & Parking

- Design GEOPAVE gravel roadways & parking areas to meet city/state stormwater requirements for pervious surfaces & capture runoff from adjacent hard pavements.
- Incorporate for Green Infrastructure (GI) and Low Impact Development (LID) projects.

LEARN MORE

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Wetlands Protection

Parking Stalls

- Design permeable parking stalls to infiltrate water at the point of contact—keeping runoff out of nearby protected wetlands, sensitive areas & waterways.
- Meet pervious pavement regulations with a percentage of parking area designated as permeable.

LEARN MORE

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Stormwater Management

Parking Lots

On-site Stormwater Storage

- Design parking areas with open-graded aggregate for fast infiltration and runoff reduction.
- The pavement layer acts like a stormwater retention ‘basin’ storing water on-site for natural infiltration.
- Reduce and eliminate stormwater ponds and infrastructure.

LEARN MORE

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Pavement Integration

Integration with Asphalt Pavements

- Design GEOPAVE porous pavements to accept the sheetflow runoff from adjacent impervious pavements (asphalt).
- The paver units may be installed/cut to integrate seamlessly with the hard pavement.

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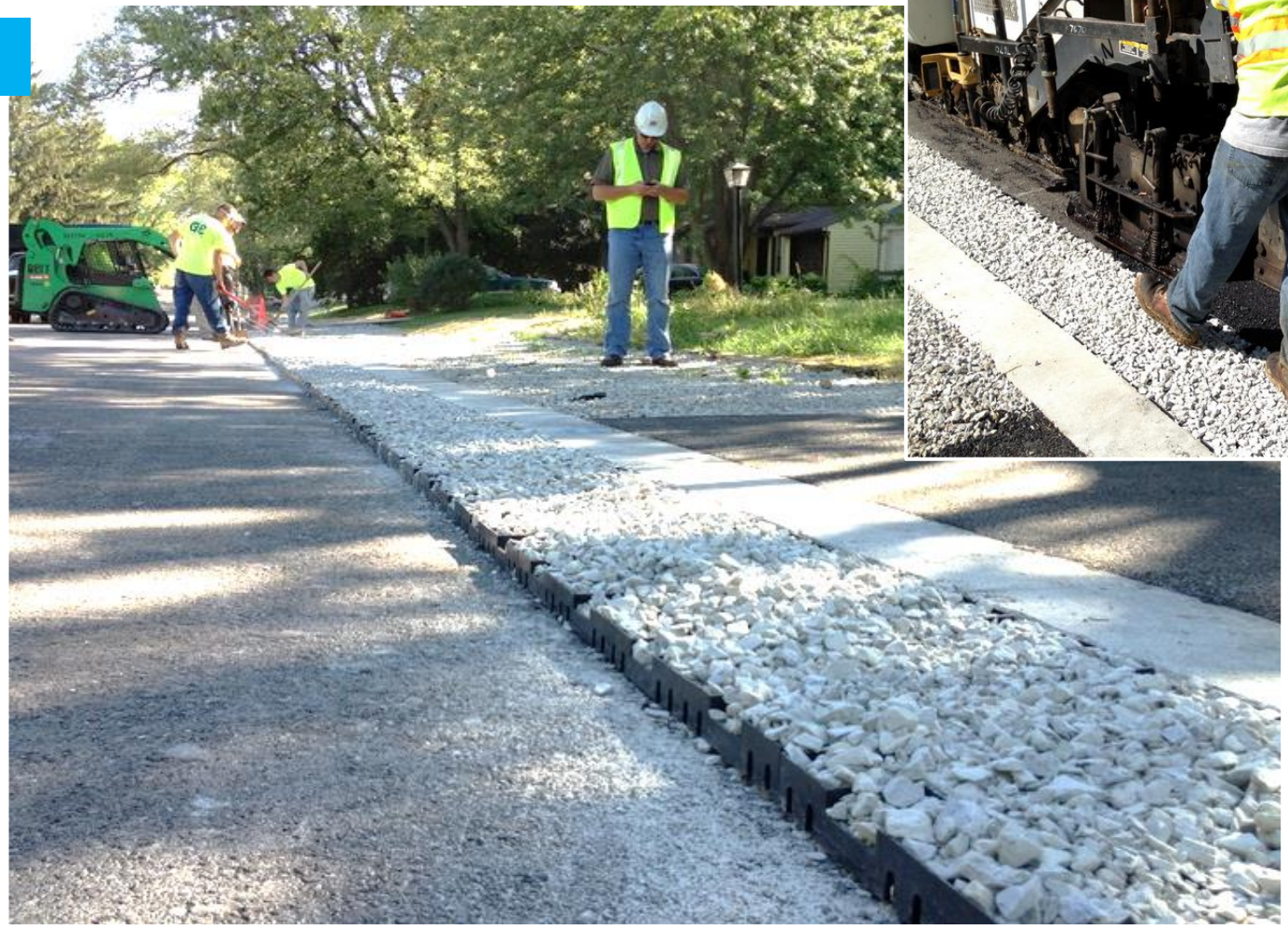
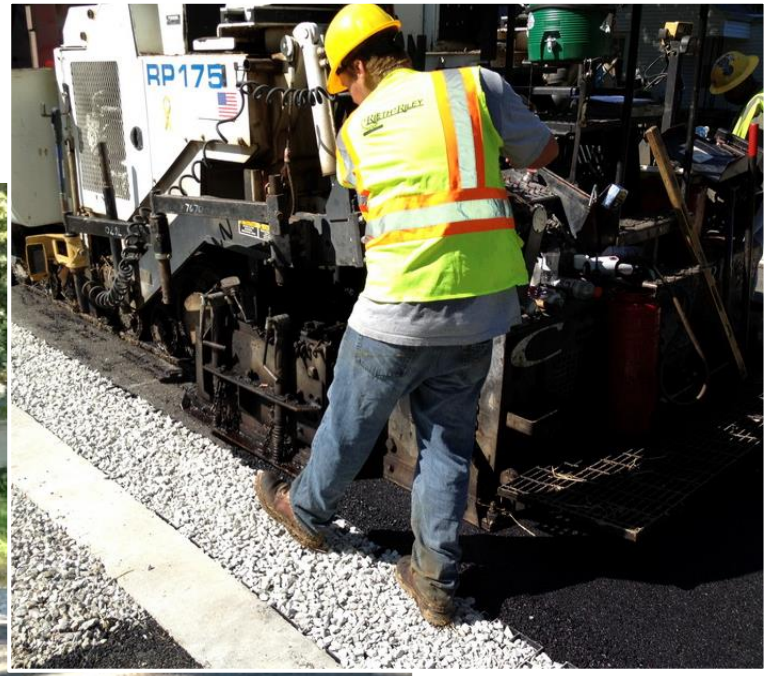
Edge & Runoff Control

Road Shoulders

- Design permeable, load-supporting road shoulders for edge control on soft shoulders and to allow natural stormwater infiltration.
- Integrate with hard surface paving (e.g. asphalt).





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Low Environmental Impact

Multi-Use Trails

- Design pedestrian, bicycle, equestrian and ATV trails to protect the trail's surface integrity under loading and from erosive forces.

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Use of Local Resources

Pedestrian Trails & Walkways

- Design low environmental impact trails and walkways with local aggregate resources.
- Open-graded aggregate infill is suitable for barrier-free access.

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Control Runoff into Waterways

Shoreline Access Ways

- Design walkways and drive access ways for low environmental impact to fresh water sources and protected areas.
- Use local and decorative stone for landscape blending and delineation.

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Your Project is Important. See How We Can Help.

Certainty:

/'sərtntē/

The quality that a successful outcome is inevitable.

Take the tour to find out how "The Presto Advantage" assures results for your project.

The Presto Advantage

Customized

Technical Presentations

Learn more about how the GEOPAVE Porous Pavement System can work on your upcoming projects.

Learn & Earn PDH Credits.

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Porous Pavement System

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