

PRESTO



Genuine **GEOWEB®** Stabilization Solutions Present by Gil Peretz & Daniel Chen

For the Israel National Road Company



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Presto GEOSYSTEMS Business

- **30 years of supplying environmental products & services.**
- **Original inventor** of **GEOWEB®** Cellular Confinement Systems with the US Army Corps of Engineers in 1979 - 1983.
- **Product Innovator** and Developer of Innovative Soil Stabilization Solutions
- **Experienced in Diverse Applications & Markets:**
 - Load Support for Surface & Base Stabilization
 - Earth Retention for Vegetated Retaining Walls
 - Channel Stabilization to address all flow conditions
 - Slope & Shoreline Stabilization
 - Erosion Control

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Advantages of the Presto GEOWEB

- **Diversity of GEOWEB Global Portfolio**
 - Over 8,000 installations
 - Projects on all Continents
 - Soil types: Sand to Tundra
 - Temperature ranges -50°F to 150°F
- **ATRA® Key** Geoweb Section Connection Device
 - **3 times faster** installation than stapling
 - **3 times stronger** than stapling
 - Easier to use in remote locations
 - http://www.prestogeo.com/featured_videos/atra_key_stapling_comparison.flv
- **Presto Support**
 - Over 30 years experience
 - Project Evaluation-Design Assistance
 - Site Assistance

Benefits of Confined Soils in the GEOWEB 3-Dimensional System

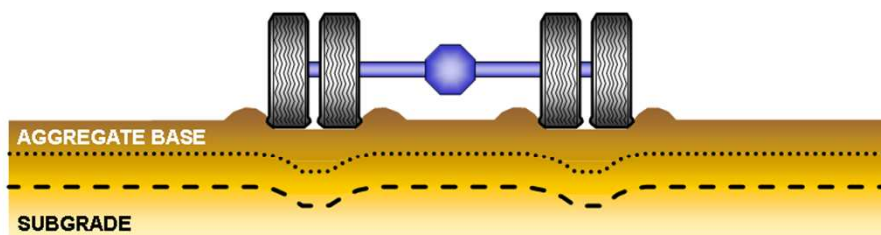
- Creates structure for expedient roadways
- Stabilizes unstable surfaces & pavement bases
- Stabilizes non-supportive soils
- Provides expedient construction access, even in remote locations

Typical Load Support Applications

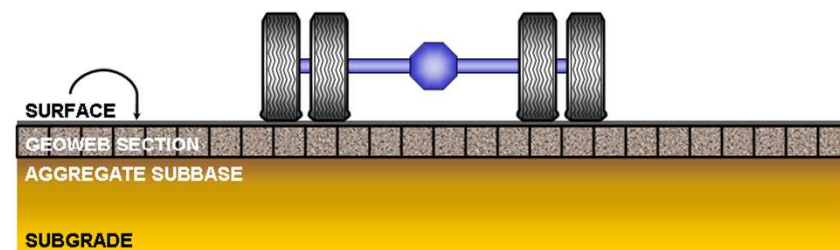
- Access Roadways & Pads
- Road Shoulders
- Transportation/Storage Yards
- Intermodal/Port Facilities
- Parking Areas
- Trails/Walkways
- Railroad Track Subballast



- Under concentrated or distributed loads, the GEOWEB 3D cellular structure confines infill materials:
 - Controls shearing
 - Reduces lateral and vertical movement

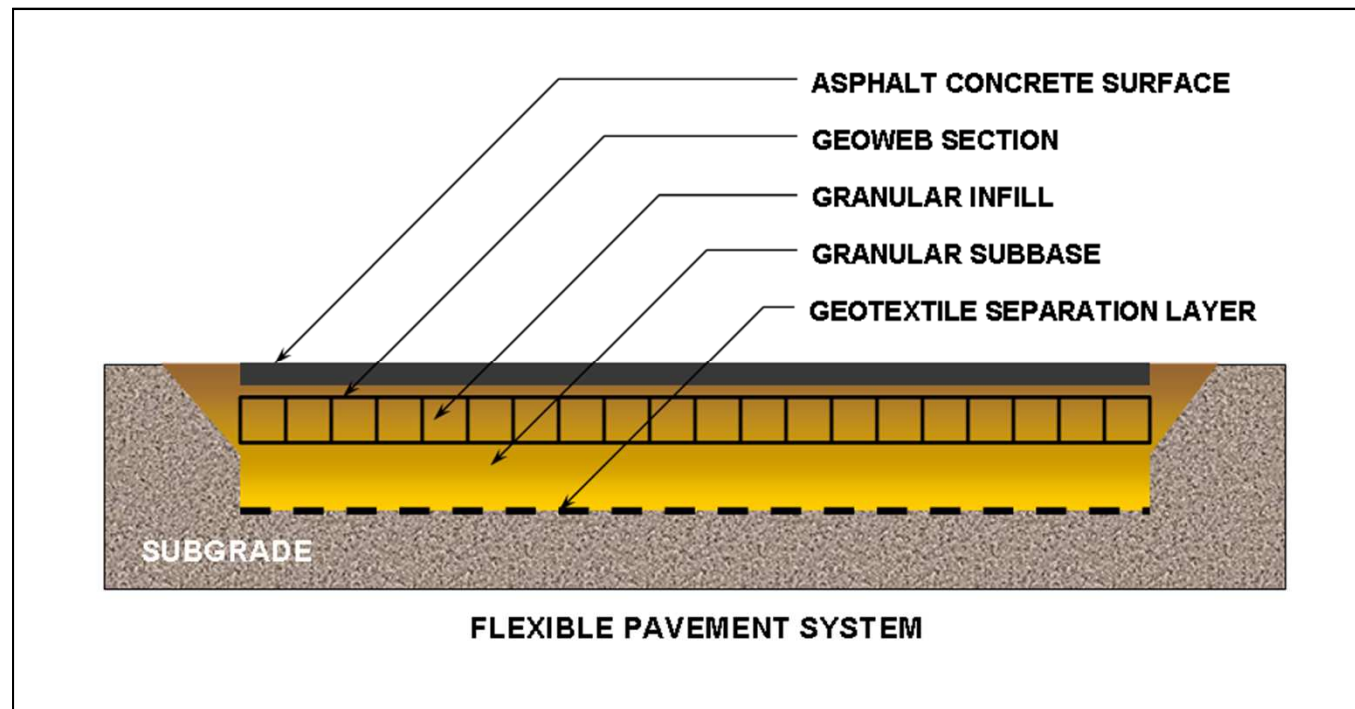


UNCONFINED GRANULAR PAVEMENT SYSTEM

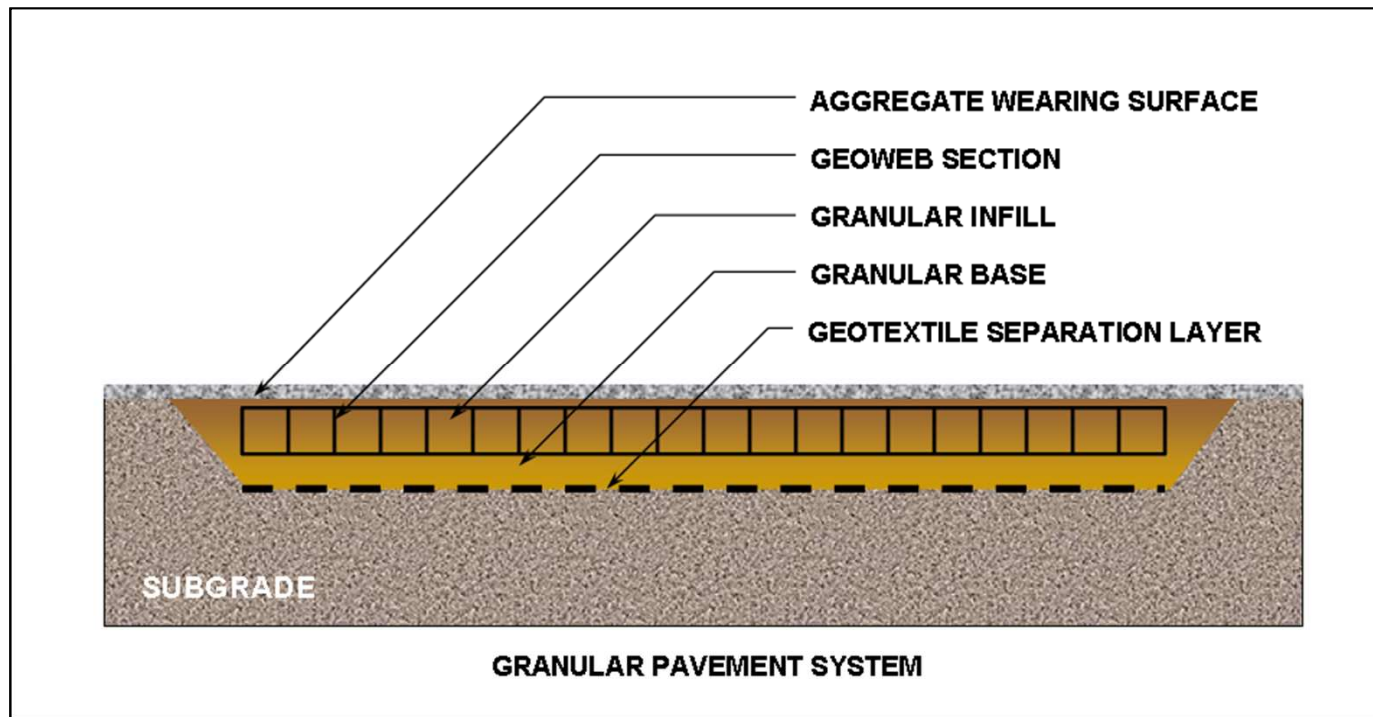


THE GEOWEB GRANULAR PAVEMENT SYSTEM

- As a base stabilization system under pavement, Geoweb confinement reduces base material requirements by 50% or more; significantly improves pavement life cycle costs.



- As a surface stabilization system, the Geoweb structure distributes surface pressures for dynamic and static loading, controlling rutting and reducing long-term maintenance requirements and costs.





- **Typical Infill**
 - Sand, Aggregate
 - Engineered Infill



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Sand Road Applications



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- Presto developed the genuine Geoweb in the late 1970's with the US Army Corps of Engineers.
- Original application was expedient roadways to support military vehicle beach access.



- Joint US Navy, Marines & Army Exercise



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JLOTS Beach Stabilization



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JLOTS Beach Stabilization



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JLOTS Beach Stabilization



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Sahara Desert Road - Algeria



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Sahara Desert Road - Algeria



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Sahara Desert Road - Algeria

- *Temps 30° to 140°F*



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Sahara Desert Road - Algeria



■ 20'
GEOWEB
Sand Road

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Occidental Siberia Haul Road

- This project is just south of the Arctic Circle in Western Siberia
- A few miles of road were stabilized



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Occidental Siberia Haul Road



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Occidental Siberia Haul Road

- Conventional pre-cast concrete slab system requiring significant maintenance costs



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Occidental Siberia Haul Road



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Siberia Gas Exploration Roadways



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Siberia Gas Exploration Roadways



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ATRA® Key Connection Device



- Time-saving device for connecting Geoweb sections
- Three times stronger than staples
- Reduces manpower required to install sections
- Reduces needs for equipment (air compressors, generators & pneumatic staplers)
- Provides a more secure load-transfer connection



■ [video](#)

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Gas Exploration Roadways



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Gas Exploration Roadways



[video](#)

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Pulau Gading, Indonesian National Oil



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Pulau Gading, Indonesian National Oil



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Tiguano Oil Drilling Roadway, Ecuador



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Tiguano Oil Drilling Roadway, Ecuador



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Tiguano Oil Drilling Roadway, Ecuador



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Port & Intermodal Applications

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- Several acres of marine sand stabilization for this ship maintenance yard
- Geoweb is one to two inches below the surface
- The heaviest load is a 200 metric ton crane supported at four points with two tires at each support point



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Hong Kong Harbor Police HQ



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Hong Kong Harbor Police HQ



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Hong Kong Harbor Police HQ



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Air Strip Applications

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Shishmaref Sand Airstrip, Alaska, USA

- The complete main runway and subsequently taxi ways were stabilized
- Shishmaref is a sand island in the Bering Straights off the west coast of Alaska



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Shishmaref Sand Airstrip, Alaska, USA

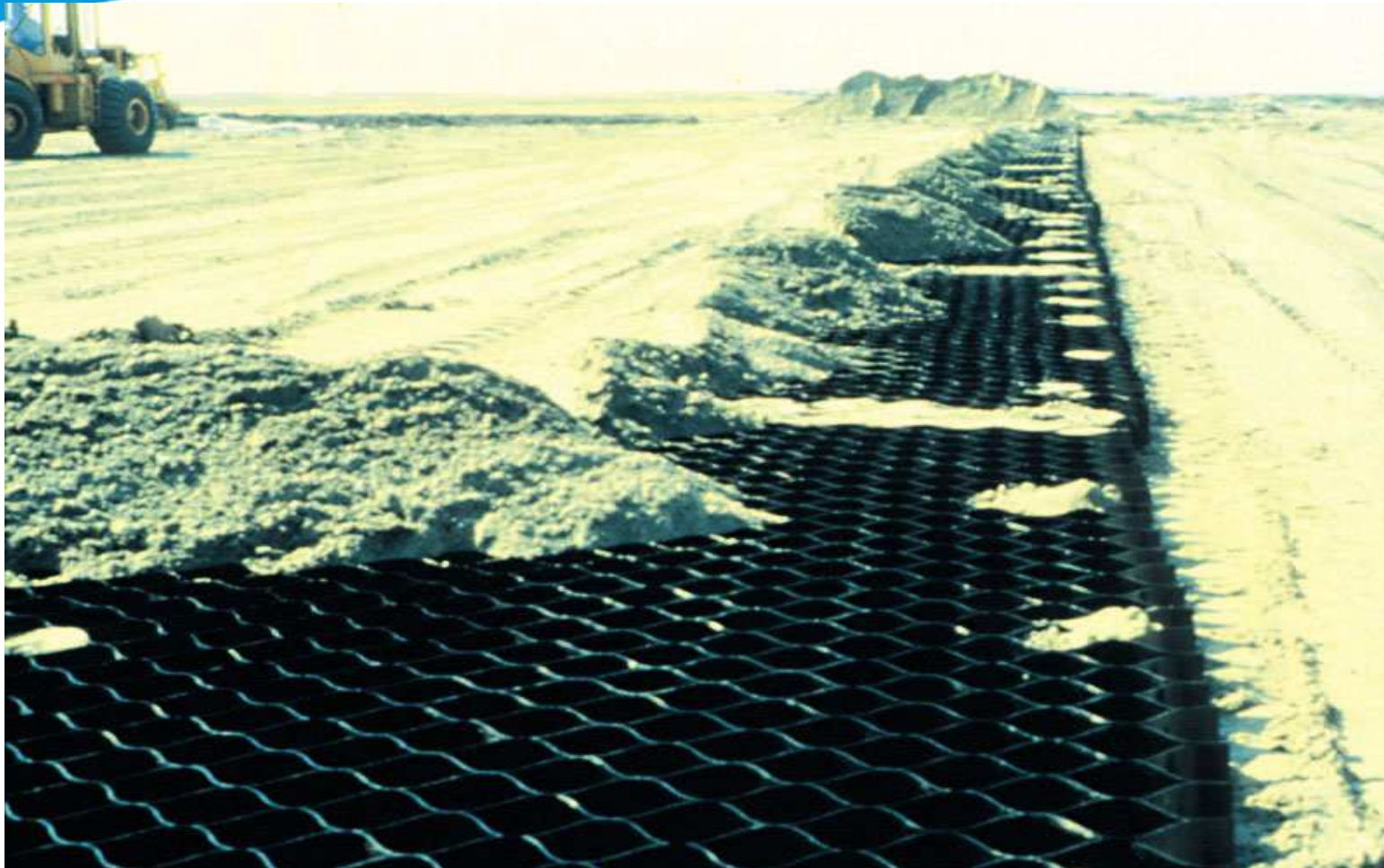


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Shishmaref Sand Airstrip, Alaska, USA



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Shishmaref Sand Airstrip, Alaska, USA



■ ***GEOWEB with Silty-Sand Infill***

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Shishmaref Sand Airstrip, Alaska, USA



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Containment Dike Applications

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Lake Hefner, Oklahoma, USA



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Hickory Mound Dike, Florida, USA



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Pipeline Protection Applications

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Cerro Pelao Southern Peru



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Cerro Pelao Southern Peru



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Cerro Pelao Southern Peru



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Cerro Pelao Southern Peru



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- **The Problem** – Slide of existing soil over an oil pipeline
- **Site Condition** - Rocky Slope Face Soils
- **Slope Angle** - 1H:1V
- Dimensions of Area Needing Repair -
 - 500 ft long x 50 ft. wide
- **The Solution** -
 - 100 mm Geoweb Slope Protection System with Topsoil Infill and Vegetation



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Chevron Gaviota Pass, California, USA



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Chevron Gaviota Pass, California, USA



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Chevron Gaviota Pass, California, USA

- Slope repair of the eroded zone over the existing pipeline



- **Location** - San Bernardino County, California
- Pipeline receives water through 9 ft and 12 ft diameter penstocks.
- **The Problem** - Surface erosion of soils from storm water runoff adjacent to and underneath pipelines and support structures threatened long-term integrity of pipeline system.
- **The Solution** - 75 mm concrete-filled Geoweb Slope Protection System



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Devil Canyon Power Plant, California, USA



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Devil Canyon Power Plant, California, USA



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- **Surface Area Protected** -
75 ft wide x 1,800 ft. long
- **Maximum Slope** - 2H:1V
- **Protection System Function** –
 - Concrete-infilled Geoweb Slope Protection System armors the native soils and diverts storm water runoff away from the pipeline right-of-way



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Devil Canyon Power Plant, California, USA



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Devil Canyon Power Plant, California, USA



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Devil Canyon Power Plant, California, USA



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Devil Canyon Power Plant, California, USA



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Sakhalin Island, Russia



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Sakhalin Island, Russia



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Sakhalin Island, Russia



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GEOWEB ®
**Earth Retention / Retaining Wall
Applications**

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Siberian Retaining Wall, Russia



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Siberian Retaining Wall, Russia



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Siberian Retaining Wall, Russia



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Siberian Retaining Wall, Russia



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Wisconsin USA Geogrid-Reinforced Road Embankment



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Wisconsin USA Geogrid-Reinforced Road Embankment



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Ontario Canada Geogrid-Reinforced

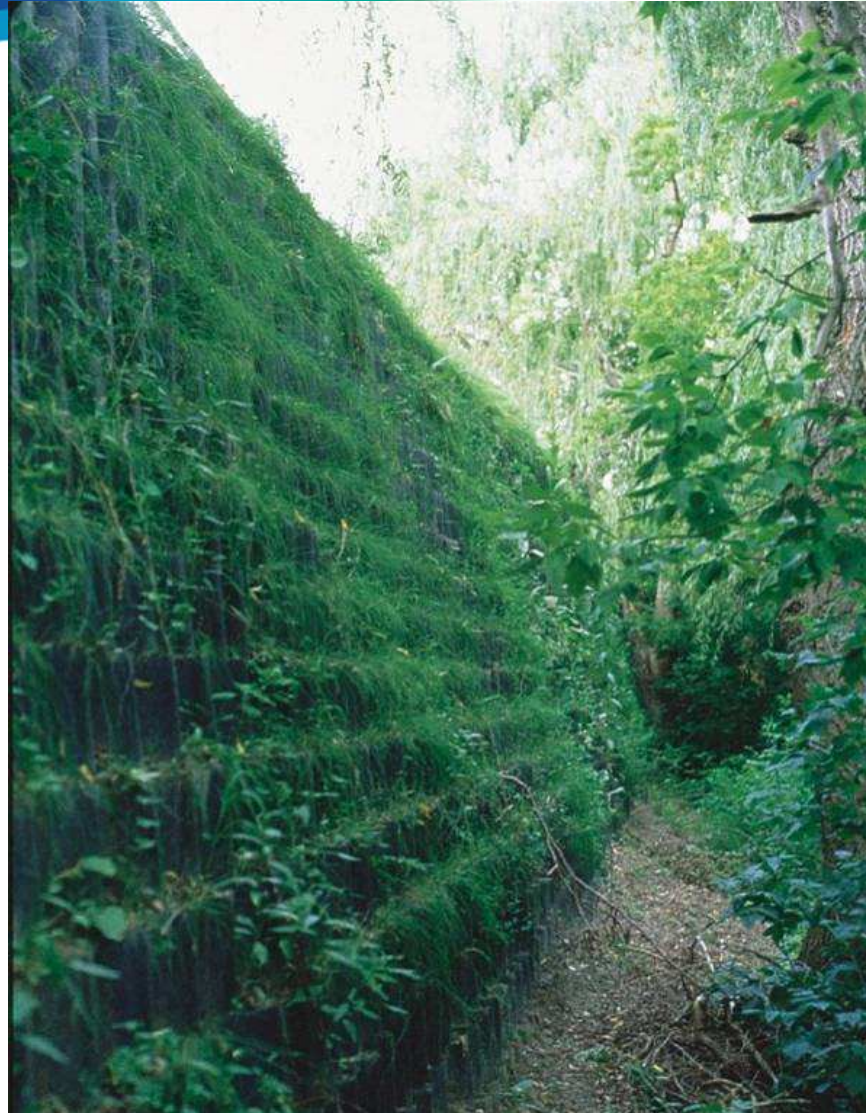


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Ontario Canada Geogrid-Reinforced



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Ohio USA Parking Lot Embankment



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Ohio USA Parking Lot Embankment



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GEO SYSTEMS

GLOBAL LEADER • GLOBAL PARTNER

Creating Sustainable Environments

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