

# GEOPIER®

## Slope Reinforcement Solutions



**THE GEOPIER SRT® SYSTEM IS AN EFFICIENT AND COST-EFFECTIVE SOLUTION FOR THE STABILIZATION OF NEW SLOPES AND ACTIVE SLIDES UP TO 15+ DEEP.**



Rapid install = limited service interruptions



Up to 50% cost savings vs. alternatives



Environmentally friendly



Loose/soft soils over competent soil/rock

**The Geopier SRT system is a slope stabilization method that consists of driving steel Plate Pile™ elements through an active or potentially unstable soil mass to stabilize the soil and increase the factor of safety against future slides.**

**The plate piles are installed using small, mobile equipment, which is ideal for limited access sites (i.e., along roadways) and steep slopes. The rapid rate of installation limits interruptions to traffic and allows for a very cost-effective solution to slope instability. The SRT system also causes minimal environmental disturbance and allows for slopes to be easily re-vegetated and maintained upon completion.**

### DESIGN CONSIDERATIONS:

- Ideal for transportation and rail applications
- Can stabilize slides up to 15 feet deep
- Can be used to steepen existing slopes
- Allows for easy re-vegetation/maintenance
- Plate Piles are made in USA

### CONSTRUCTION CONSIDERATIONS:

- Only requires small, mobile equipment
- Installed using excavator with vibratory hammer
- Plate piles are readily available anywhere in USA
- Rapid installations results in limited service interruptions



#### MUDSLIDE REPAIR

250 Plate Piles were installed in Memphis, TN to stabilize a slope after a heavy rainstorm dropped 8 inches of water.



#### STREET SLIDE REPAIR

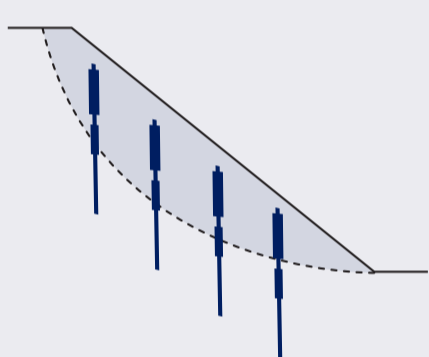
Plate piles were installed in one day to repair a shallow slide adjacent to a roadway in Norwalk, OH without any interruptions to traffic.



#### PROGRESS SLIDE

Winter rains in San Ramon, CA resulted in a 200 ft x 50 ft shallow slide. SRT was used to stabilize the slide mass in under 4 days for less than \$60,000.

### GEOPIER SRT® SYSTEM



**Geopier SRT System is a cost-effective, schedule-friendly solution for shallow slope failures.**



Slope can be easily re-vegetated and maintained

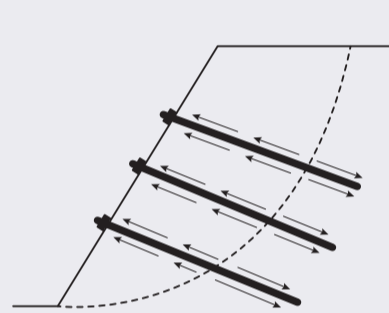


Small equipment allows for easy access



Rapid installation means shorter disruptions

### OTHER SLOPE STABILIZATION



**Alternative solutions can be disruptive, expensive, and time-consuming; making them impractical**



Some solutions require unsightly shotcrete and anchors



Large equipment may require invasive site access



Long remediation schedules can affect traffic, etc.

We are continuously looking for VE opportunities and was aware of the Plate Piles method. We evaluated the Plate Pile method and decided the method would be a perfect tool to solve our problem.

Joe Seto, Engineering Chief, US

#### GEOPIER SRT® SYSTEM

The Geopier SRT system is a slope stabilization method that consists of driving steel Plate Pile™ elements through an active slide mass or a potentially unstable soil layer to penetrate underlying stable materials. The piles consist of steel sections to which rectangular plates are welded.

The system is designed to stabilize slopes where the soil conditions consist of an upper zone of weathered, loose, soft or disturbed soil over a stable zone of soil or soft rock.

The Plate Pile® elements form a series of horizontal barriers where the soil arches between the plates, forming a continuous line of resistance against downslope movement.

#### SRT® INSTALLATION

- Plate pile elements are driven through unstable soil into a competent layer.
- Piles are driven in an engineering pattern based on soil conditions and depth of slide.

**Fun Fact: The Plate Pile weighs 120 lbs, light enough for crews to carry!**

**Whether you are an engineer, contractor, or owner - We can help.**

For more information on Geopier solutions, call **800-371-7470**, visit [www.geopier.com](http://www.geopier.com) or email [info@geopier.com](mailto:info@geopier.com)

