



## SRT® System Stabilizes Caltrans Slopes Colusa, California

### Geopier SRT® installed to stabilize Caltrans slopes susceptible to creep, along Interstate 5

**Description:** Shallow landslide failure and chronic creep are common problems with existing highway embankments and pavements constructed in highly expansive clay fill soils. In such areas along Interstate 5, for example, creep led to cracks in the road where water seeped in and eroded the pavement. Conventionally-accepted repair and reinforcement methods (such as debris removal and slope reconstruction, retaining walls, or infilling with riprap) are generally expensive and invasive, often causing extended traffic delays.

**Geopier Solution:** The SRT® system was chosen, at less than half of the price of other options considered, including excavation and rebuilding, rock slope protection, lime treatment, or retaining walls. 2,810 Plate Pile™ elements were used in 4-ft to 10-ft intervals, and were installed in a standard staggered pattern on the slope. Customized hydraulic hammers were chosen to install as many as 400 plate piles a day. In addition to being a cost-effective option for Caltrans, SRT saved time and met space limitations without affecting traffic patterns.



### PROJECT HIGHLIGHTS

**Project:**

Caltrans I-5 Slope Stabilization

**System:**

Geopier SRT® system

**Installation:**

2,810 Plate Piles