



## SRT® System Reinforces HOT Lanes Slopes Fairfax, VA

### Geopier SRT® system installed to increase the stability of slopes along the I-495 Capital Beltway

**Description:** Fluor-Lane, the designer-builder for this PPTA project, wanted to improve the predicted stability of this slope (along the high-occupancy travel lanes on I-495) to meet VDOT standards. Traditional methods, such as retaining walls or over-excavation and replacement, were considered. They were too costly, would take too long and would be too disruptive to these critical and bustling lanes of traffic.

**Geopier Solution:** SRT® technology was chosen because it would not disturb the existing slope, and would have little impact on traffic patterns. Furthermore, it would be a less costly and time-consuming solution. GeoStructures, Inc. installed 188 plate piles with a three-person crew in four production days. The use of small, mobile equipment allowed for the work to be performed directly on the slope with absolutely no interruption of traffic. This project demonstrated that SRT system can successfully be installed along roadways with difficult access, while decreasing construction time and earthwork operations. Most importantly, these high-occupancy traffic lanes on I-495 could continue to flow freely while work was done on the slope.



### PROJECT HIGHLIGHTS

**Project:**

HOT Lanes I-495 Slopes

**System:**

Geopier SRT® system

**Installation:**

188 Plate Piles