

Baltimore Washington Parkway Slope Repair @ Route 197 exit

Laurel, MD

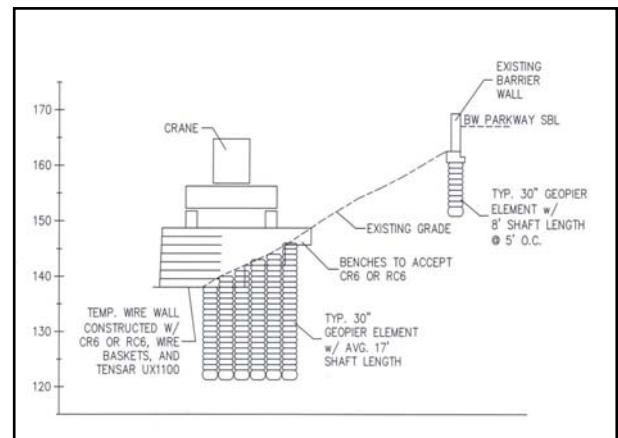


Undulating Wall & Slope failure



Finished Slope repair

Project Description: A slope failure beneath a precast retaining wall system along the Baltimore Washington Parkway Failure created several challenges to the FHWA and the National Park Service: Minimize the cost for slope stabilization as well as minimize the impact on trees and parkland. A Tensar Ares temporary wall system was utilized to minimize impact on the trees and parkland and Geopier vertical soil reinforcements were used to stabilize both the wall and the slope. The Tensar wall provided a work platform for Geopier installation and use of a crane to remove and replace the precast wall with minimal disturbance to the existing tree line. The Geopier elements provided a cost effective means of controlling settlement of the precast wall and reinforcing the high plastic clay slope so that ultimately a rockfill berm counterbalance could be installed to stabilize the slope.



Owner: Federal Highway Administration, Sterling, VA

General Contractor: Concrete General, Gaithersburg, MD

Wall Designer/Engineer: GeoStructures, Inc., Leesburg, VA

Wall and Geopier Contractor: GeoConstructors, Inc., Leesburg, VA