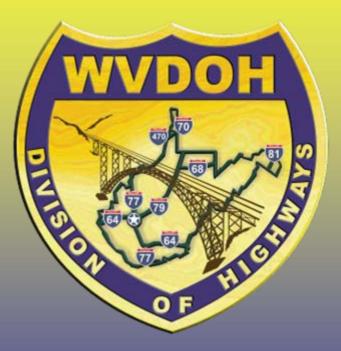
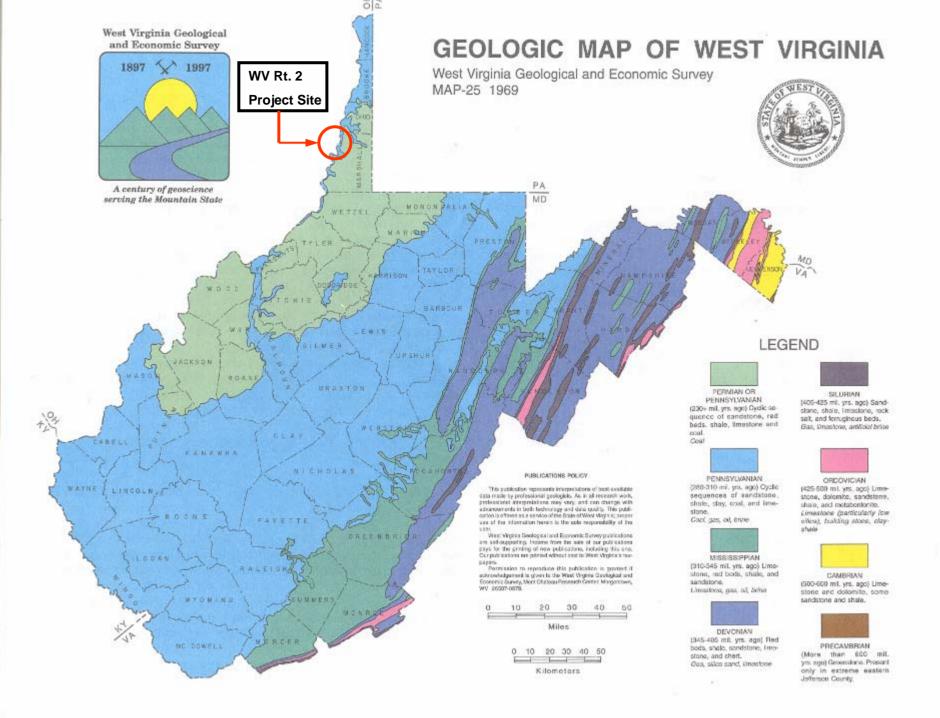
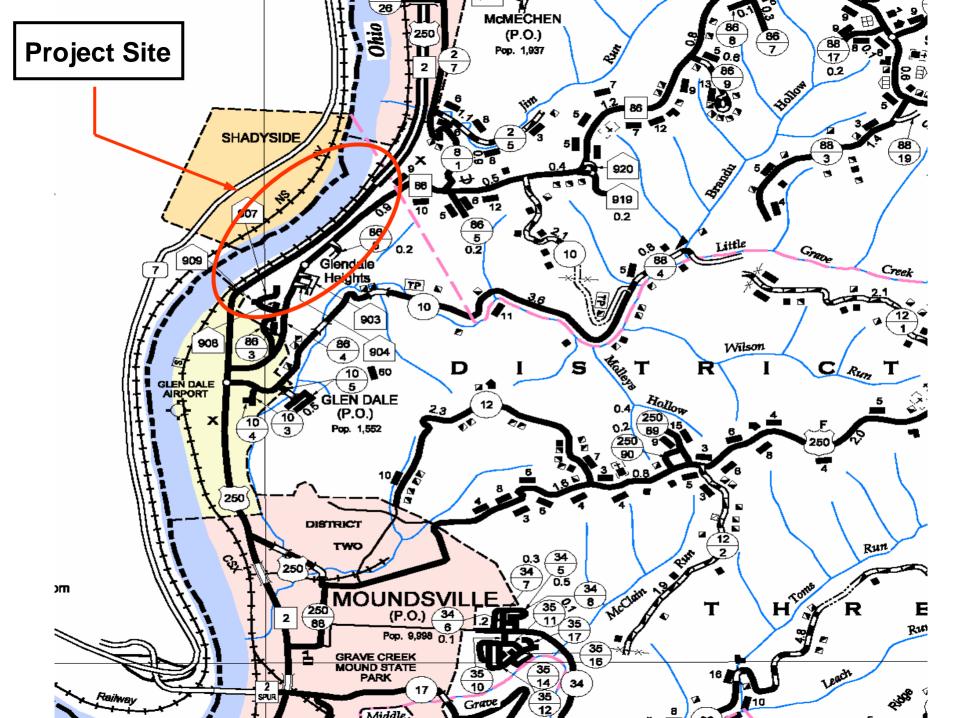
West Virginia Route 2 Rock Fall Hazards at "The Narrows" Using a Rock Fence Catchment System for Remediation

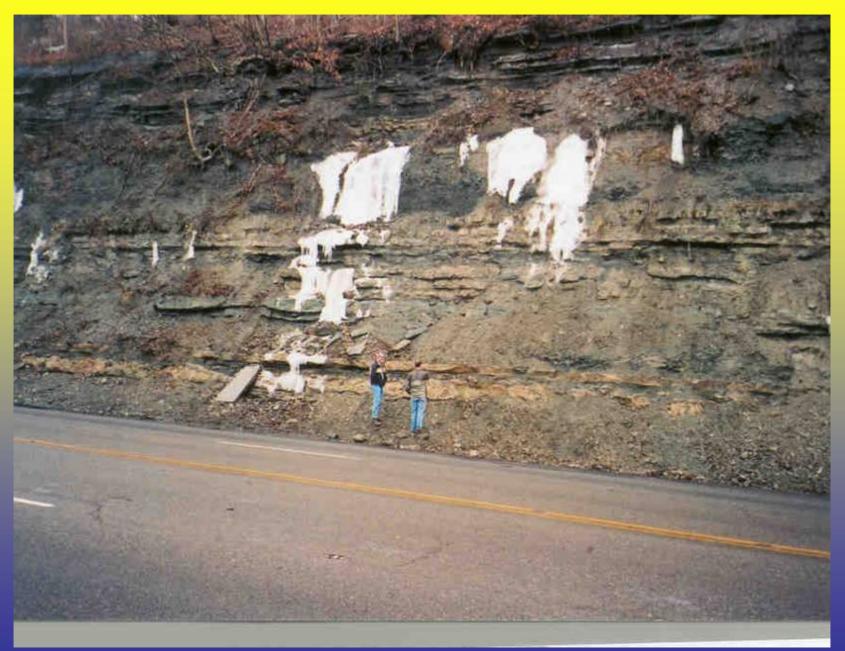


Aaron L. Wentz WV DOT





Northbound Lane Rock Cut Prior to Construction



Northbound Lane Rock Cut Prior to Construction



Northbound Lane Rock Cut Prior to Construction



Concrete Wall Bordering Southbound Lane



Concrete Barrier and Piling Bordering Southbound Lane



Soldier Pile Wall Repair Along Southbound Lane



Narrow Shoulder With "Modified" Bike Path!



Anchored Cable Net Drape Along WV Rt. 2 at Newell, West Virginia



Anchored Cable Net Drape Along WV Rt. 2 at Newell, West Virginia



Vegetated Slope Above Rock Cut Catching Falling Debris



Preliminary Design Considerations for Draping



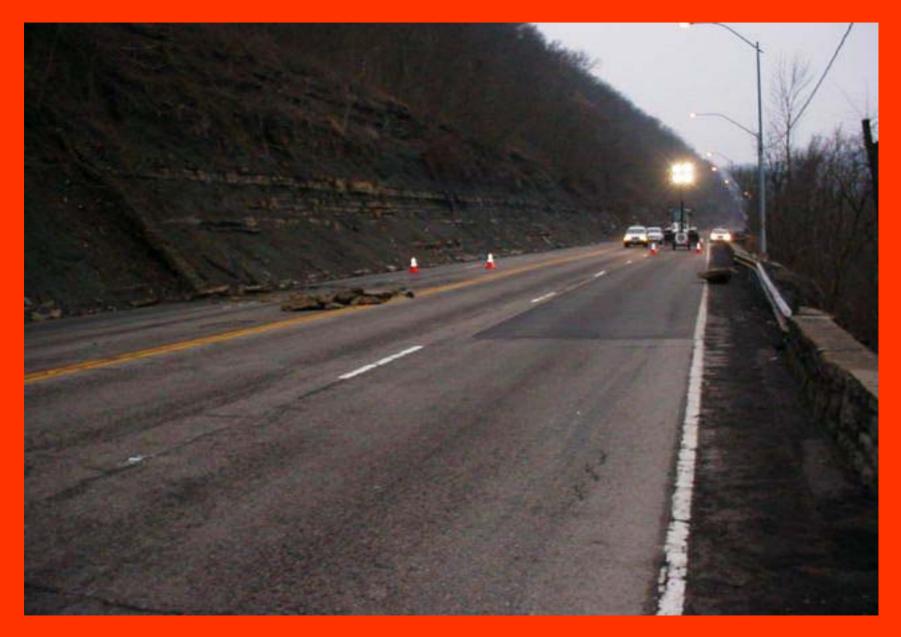
Origin of March 25, 2005 Rock Fall/Debris Flow



Origin of March 25, 2005 Rock Fall/Debris Flow



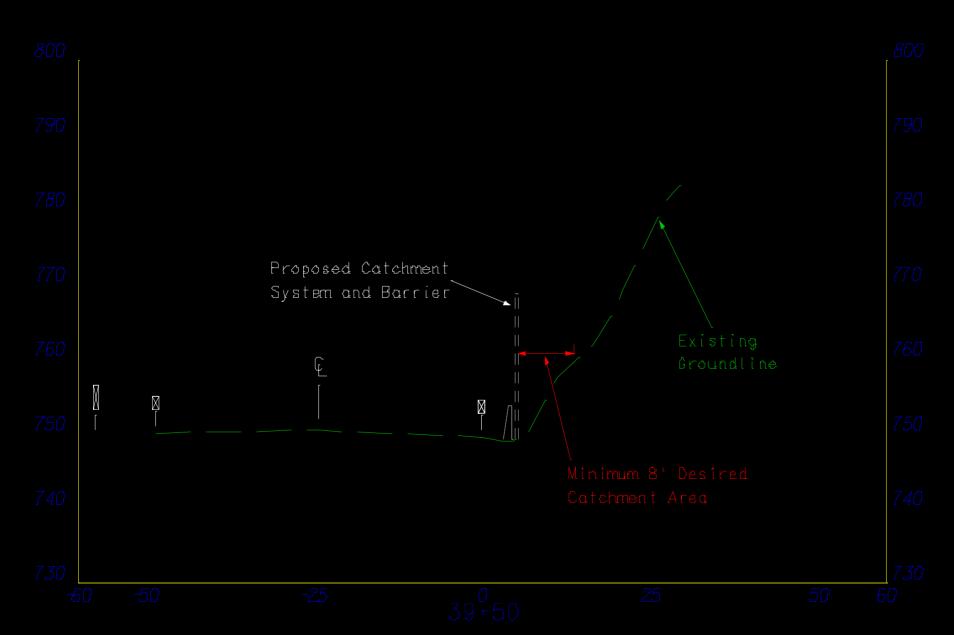
March 25, 2005 Rock Fall Debris



March 25, 2005 Rock Fall Debris



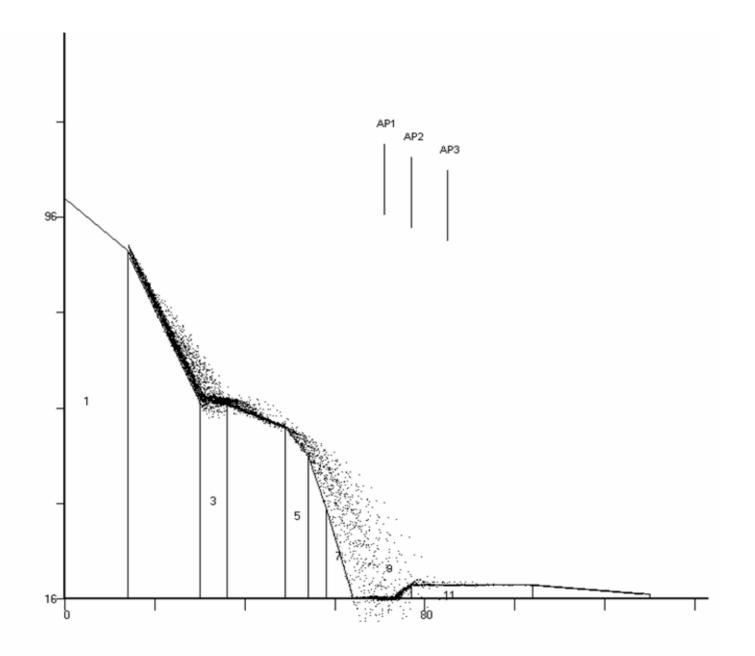
Existing Section at Site



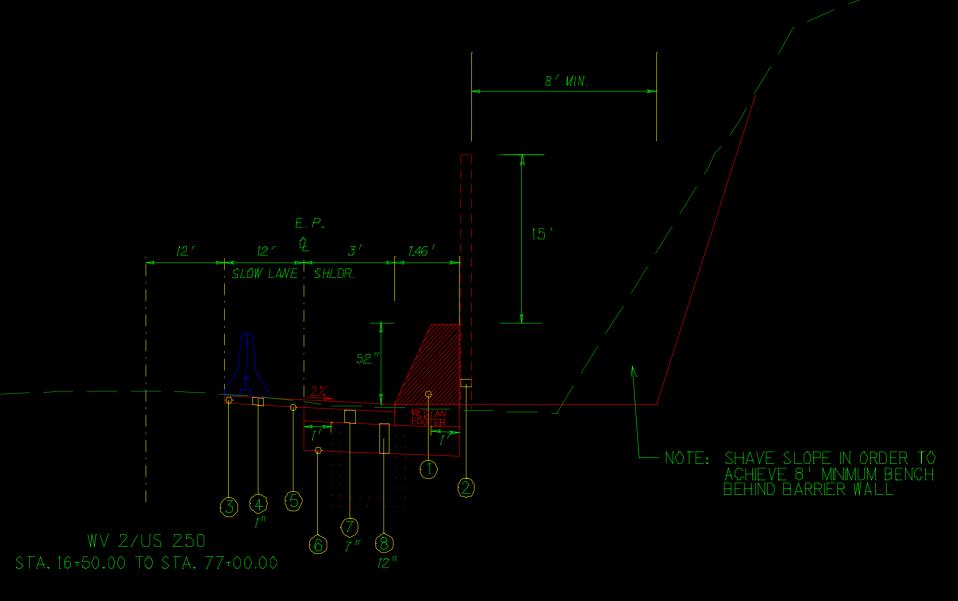
Impact Location of March 2005 Rock Fall



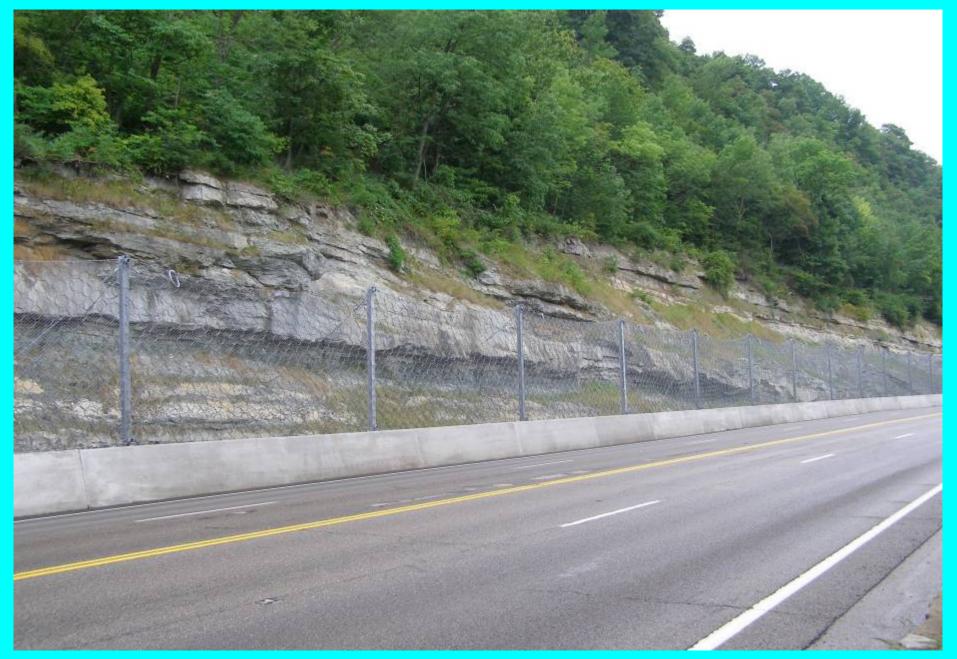
Output File From CRSP Rock Fall Simulation



TYPICAL FENCE SECTION



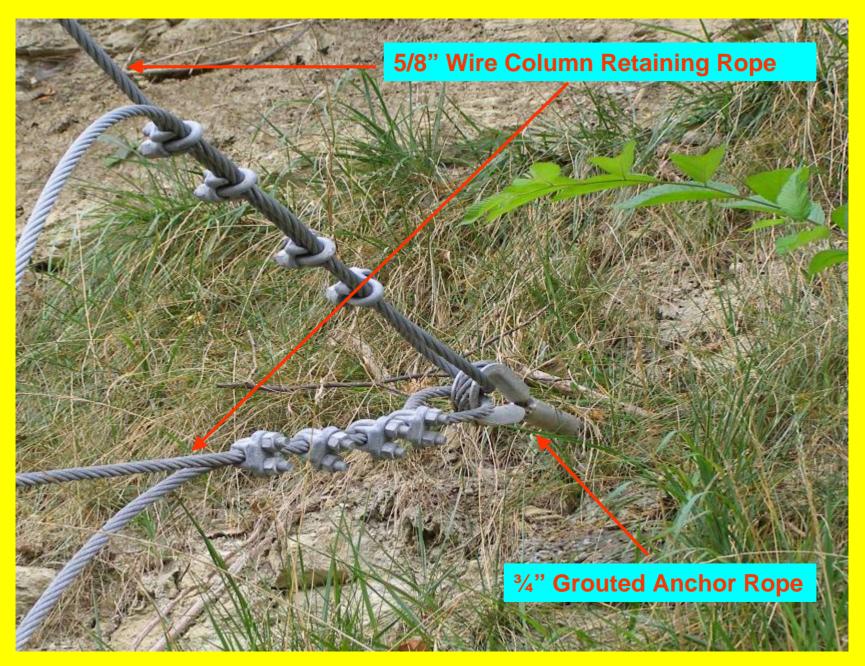
Completed Geobrugg Rock Fence Catchment System



Column Foundation and Break-Away Base Plate



Column Retaining Rope Grouted Anchor



Barrier Wall to Guardrail Transition



Catchment Zone Behind Fence



Wire Rope Braking Elements



Ring Net During Installation



Installation of Ring Net



Column Retaining Rope Removable Shackle



First Post-Construction Rock Fall



Rock Fall Debris Behind Fence





Thank you from the West Virginia Division of Highways