



Slope failure after storm event



Stabilized bank pending permanent repairs

During heavy rains on July 2, 2013, several roadways and culverts within the Town of Windsor were damaged. The issues included slope failures, roadway erosion, culvert and headwall damages and bank erosion.

As a result of the storm damage, several roads were closed to traffic for public safety. The most significant effect to the public was the closure of County Road north of Mt. Ascutney Hospital, as this road is the main route to the Southeast State Correctional Facility.

At the County Road site, 24-inch diameter and 15-inch diameter pipe culverts cross under the road to a common discharge point. Dufresne Group completed a hydrologic and hydraulic analysis and recommended replacement of these pipes with 5 ft and 3 ft diameter culverts.

As County Road is a Federal Aid Highway, the repair project was funded under the Federal Highway Administration Emergency Relief program. Temporary repairs were completed within two weeks to restore through traffic and allow bid solicitation for completing permanent repair work, including culvert replacement.

KEY FEATURES:

- The road and bank was rebuilt within two weeks to restore traffic and access to the Southeast State Correctional Facility and Mount Ascutney Hospital.
- FHWA funded 100% of the emergency repair work and 80% of the permanent repairs.
- Recommended culvert replacement sizes were confirmed by independent VTrans analysis.
- Stream Alteration Permitting was accelerated to allow for immediate reconstruction work.