

Landslide/Flood Repairs - WV4

Client: Triton Construction, Inc./WV Department of Highways



Project Location:

Kanawha County, WV

Key Personnel:

Scott LeRose, PE

Project Cost:

\$5 million

Year Completed:

2017

ELR's Role:

Prime Consultant

Design

Surveying

Geotechnical Investigation

Construction Observation

As a result of the severe rain events in June 2016 an extreme flood occurred on the Elk River causing numerous landslides on WV 4. The West Virginia Department of Highways awarded Triton Construction a design-build contract to make repairs to this vital highway and restore the roadways.

After on-site meeting, ELR deployed survey crews to develop mapping for each site. Drill rigs were utilized to determine geotechnical information such as soil and bedrock depths. ELR's geotechnical engineers evaluated the stability of the sites and designed retaining structures to stabilize the embankments and provide support for the reconstructed roadway. Eleven pile lagging walls from a few hundred to several hundred feet in length were designed. The construction of the retaining structures was completed by December 2016. Final paving of roadways was completed in the Spring of 2017.

KEY FACTS:

- WV4 along Elk River in Clendenin, WV
- Performed Structural Inspection
- Performed surveying/mapping and geotechnical investigations
- Prepared Contract Plans
- Performed Construction Inspection