Protecting Crossett Brook and Crossett Hill Road from a Recurring Landslide

- **A Robust Design that Addresses Perpetual Habitat Degradation:** To enhance the stream environment and eliminate erosion and sliding debris that frequently degraded the ecology of the watershed, a carefully executed design was completed and installed to stabilize the roadway slope and streambank.

- **Using Existing Geospatial Data to Save the Owner Money:** LiDAR mapping reduced conventional surveying costs and identified "big picture" surface deformations of a much larger historic landslide uphill of the project site, which allowed the project team to address the entire landslide at an early stage in the design.

- **A Design that Prioritized Public Safety and Rapid Implementation:** The design relied on data collected during the drilling program to address the global stability and stream sediment loading impacts, and implemented a robust rock buttress and a series of roadway curtain drains that were constructed quickly, limiting road closure to just four weeks.

- **Keeping the Project Moving:** The design and construction were completed on schedule and within budget despite identifying the unexpected historic landslide hazard, which tripled the height of the slope in need of stabilization, and required multiple permits and multi-stakeholder input and review.

"...was exactly what we wanted, at the expected cost...”
Jonathan DeLaBruere
Town of Duxbury