



Hudson Highlands Fjord Trail

As design development moves forward beyond the Master Plan, a number of engineering, survey, and other studies are conducted to provide the structural and civil engineers, ecologists, and landscape architects with the information they need to begin design. This includes geotechnical borings to understand the soil composition along the site where piles may be needed. This was true for the bridge and elevated portions of trail in the Breakneck Connector and Bridge projects and will be true for Shoreline Trail and beyond. For the Bridge, structural modeling led to the addition of tuned mass dampers to ensure the bridge vibrations were comfortable to the user. Where work or design is occurring close to the water, we also assess and map certain regulatory lines such as top of bank and mean high water and have bathymetry mapped for the adjacent water areas. All of this - and much more - informs design, environmental review, and permitting for the project.