



### GEC Megaprojects Survey Services Northern Virginia

ATCS provided survey services to support the construction efforts of the VDOT Megaprojects, including the I-495 HOT Lanes, the I-95 Fourth Lane Widening, and the Fairfax County Parkway/BRAC construction. Much of the work demanded short turn-around times and rapid deployment to respond to the day to day needs in response to the construction efforts. The scope of services included:

- Set GPS and traditional control, and established localizations in order to decrease response times and increase ability to respond to multiple geographically dispersed locations.
- Coordinated and obtained supplemental aerial mapping and integrated with field shot topography and provided base drawings in Microstation format on accelerated time frames.
- Performed deed research, created deed plots, and established right of ways, property lines, and locations of easements on properties specified by various project managers to supplement existing surveys. Integrated all information into the existing Microstation drawings for use with design.
- Performed the necessary field work to accurately delineate right of ways, property lines, and easements in order to determine dedication and easement needs for acquisition by VDOT.
- Performed field run cross-sections and detailed stream locations for hydrology and hydraulic analysis at Scotts Run.
- Obtained bridge detail drawings over Scotts Run and for overpasses at I-495 and the Dulles Toll Road.
- Provided plats for right of way takes and easement acquisition in Microstation format, as well as legal descriptions.
- Staked right of way and easement acquisition areas.

- Staked miscellaneous utilities and provided locations of existing features.
- Provided detailed documentation of existing conditions prior to construction with photography tied to GPS located points.
- Performed monitoring of constructed retaining walls and provided results in Microstation and Excel formats.
- Performed as-builts of existing sound walls and provided Microstation drawings.