

# DULLES GREENWAY CAPITAL IMPROVEMENTS

LOUDOUN COUNTY, VIRGINIA



**CLIENT:**

Toll Road Investors Partnership II  
(TRIP II)

**CONTRACT AMOUNT:**

\$71 million

**DELIVERY METHOD:**

Design-Build

**CONTRACTOR:**

Shirley Contracting Company

**DESIGNER:**

Dewberry Consultants LLC

**COMPLETION DATE:**

December 2007

The Dulles Greenway Capital Improvements Program consisted of eight component projects, which were consolidated into a single Design-Build program. This \$71 million program included new interchanges at Route 653 and Route 654, improvements to the existing interchange at Route 606, mainline widening from four to six lanes, expansion of the mainline toll plaza, and widening of the existing dual 660-foot mainline bridges over Goose Creek. All work was required to be performed with no reduction in capacity for the 75,000+ vehicles per day utilizing the existing toll facility. The Design-Build Team of Shirley and Dewberry provided all design, permitting, utility relocations, construction, and construction administration.

Design of the project included separate submissions of the roadway and bridge plans for each component project. In all, the Virginia Department of Transportation (VDOT), approved 18 separate plan submissions consisting of eight roadway/interchange plan sets and ten sets of bridge plans. Our Team also completed all environmental permitting for the projects including submission and approval of seven Joint Permit Applications to Department of Environmental Quality (DEQ), United States Army Corps of Engineers (USACE), and Virginia Marine Resources Commission (VMRC), as well as Virginia Stormwater Management Program (VSMP) permit applications to the Department of Conservation and Recreation (DCR).

Impacts to traffic were not only a project safety concern and an inconvenience to the traveling public. In addition to enhanced safety features and increased capacity in final design, our Team developed detailed traffic management plans that focused on maintaining lane widths and travel speeds, and reduced the impact to traffic during interim construction phases. Based on the Team's performance through the first 18 months of the three year project, Trip II awarded Shirley a change order to design and construct improvements to the Greenway/Route 772 Interchange including widening the existing bridge over the Greenway from two to six lanes. Our Design-Build Team completed the design, permitting, and construction of this additional interchange on-time and in less than 18 months.