



Construct Interchange at Route 15 Bypass and Battlefield Parkway

Project Description



The existing intersection between the Route 15 Leesburg Bypass and Battlefield Parkway is one of the most congested intersections within the Town of Leesburg. The Bypass also acts as a barrier that inhibits east-west movements on Battlefield Parkway by motor vehicles, pedestrians and bicycles. The funding requested under this project is for the initial steps of developing a grade-separated interchange. This includes preparation of an interchange justification report (IJR) to evaluate the need for the interchange, comparison of alternative designs, analysis of environmental impacts, and establishment of a project budget. Development of an interchange at this location was first included in the Leesburg Town Plan in 1986 and continues to be included in the current Town Plan. The project is also included in the Loudoun County Transportation Plan. During rezoning for adjacent residential developments, right of way for the interchange was provided. Accordingly, little or no additional right of way is expected to be required.

Reference Number: 2018-056-0
TransAction ID: 96
Submitting Jurisdiction/Agency: Town of Leesburg
Location: See map below.
Requested NVTA Funds: \$2,000,000
Total Cost to Complete Project: \$60,000,000

The existing at-grade intersection of the Route 15 Leesburg Bypass with Battlefield Parkway is one of three remaining signalized intersections on the Bypass. The other two traffic signals on the Bypass will be eliminated with the construction of an Interchange with Edwards Ferry Road and Fort Evans Road. The project is located at the southern terminus of proposed widening of Route 15 between Battlefield Parkway and Montresor Road. Route 15 is part of the National Highway System that serves as a major commuter route between northern Loudoun County, Maryland, and Pennsylvania and employment centers in eastern Loudoun County, Fairfax County, and points further east. There is also very heavy weekend traffic from local residents and travelers along the east coast. Peak traffic volumes on Route 15 were approximately 2,000 VPH in 2015, and are forecast to increase to approximately 2,500 VPH in year 2040. Battlefield Parkway serves as an arterial loop around the east side of Leesburg, and serves local residential and business traffic. Traffic on Battlefield Parkway is forecast to increase by approximately 30% from slightly less than 1,000 VPH in 2015 to over 1,300 VPH by 2040. Congestion at the intersection is severe – traffic studies indicate a current level of service F during the weekday afternoon peak period.

Project Location



Project Milestones

	Before FY2018	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	After FY2023
Design, Engineering, Environmental Work					X	X		X
Right of Way Acquisition								X
Construction								X

Project Funding

	Requested NVTA Funds	Other Funding Sources	Total Cost by Phase
Design, Engineering, Environmental Work	\$2,000,000		\$6,000,000
Right of Way Acquisition			\$5,000,000
Construction			\$49,000,000
TOTAL:	\$2,000,000		\$60,000,000

Note: This project has a funding gap of \$58,000,000.

Project Analysis Highlights

Congestion Reduction Relative to Cost Ratio (Total Cost in \$1000's):	10.58
Congestion Reduction Relative to Cost Ratio Rank (Total Cost in \$1000's):	39
TransAction Project Rating:	72.54
TransAction Project Rating Rank:	12

Note: The project analysis above was completed by NVTA staff using data and information from the project application and analyses of the region's transportation network.

Regional Impacts

- Reducing congestion and delay experienced by commuters and local residents on a daily basis.
- Improving access to jobs for commuters from northern Loudoun County, Maryland and Pennsylvania traveling to employment in eastern Loudoun County, Fairfax County and points further east.
- Improving travel time reliability by reducing congestion experienced during peak periods.
- Improving the multimodal transportation system by eliminating barriers to pedestrians and bicyclists who desire to cross the Route 15 Bypass and travel between residential areas and schools, parks, churches and other facilities.
- Reducing the need for cut-through traffic by commuters using neighborhood roads to avoid congestion on the primary arteries.
- Reducing air pollution by reducing congestion.
- Improving safety by separating high volume, high speed Bypass traffic from the slower speed local traffic.

Note: The regional impacts listed above are a summary of what was submitted in the project application NVTA staff received from the jurisdiction or agency that has applied for funding.