



Extend Shellhorn Road: Loudoun County Parkway to Randolph Drive

Project Description

This project entails constructing a continuous east-west corridor of Shellhorn Rd (VA 643) to Sterling Boulevard (VA 846) between Loudoun County Parkway (VA 607) and Pacific Boulevard. The multimodal corridor is planned to include an urban 4-lane road within 120 feet of right of way. The project includes 1 roundabout, 2 new signalized intersections, and 2 signal modifications. The project will extend Shellhorn Road from Loudoun County Parkway to Lockridge Road. This new 1 mile long, major collector road is planned to have a roundabout at its eastern terminus on Lockridge Road. The project will reconstruct 0.8 miles of Lockridge Road from Prentice Drive to Moran Road and realign Lockridge Road to tie into the planned Sterling Boulevard Extension from Pacific Boulevard. Randolph Drive will also be realigned to be a continuous north-south road that'll connect Old Ox Road to Prentice Drive.

The new major collector road is a critical east west component of the Silver Line District transportation network that will support multimodal access to/from the future Loudoun Gateway and Ashburn Metrorail stations. This roadway will serve as one of the primary routes for potential transit circulator service between the stations connecting travelers to activity centers, Dulles Airport, and the Greenway. The corridor will support a more efficient distribution of east-west traffic, relieving congestion and bottlenecks on parallel roads that are at or over capacity. As a parallel corridor to the Dulles Greenway, it will serve as a relief valve for the other limited supply of east-west collector roadways that are congested due to traffic generated by motorists that avoid the tolled facility. This corridor is an essential component of this area's growth and long-term viability, this east-west corridor will help support mobility for residents, retail patrons, and employees to the transit-oriented developments of the Silver Line Station Areas. Shellhorn Road will include on-street bike lanes and wide sidewalks for pedestrians.



Reference Number: 2018-023-0

TransAction ID: 184

Submitting Jurisdiction/Agency: Loudoun County

Location: Loudoun County Pkwy to Randolph Dr

Requested NVT A Funds: \$16,000,000

Total Cost to Complete Project: \$126,750,000

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	X	X		
Construction							X	X

Project Funding

	Requested NVT A Funds	Other Funding Sources	Total Cost by Phase
Design, Engineering, Environmental Work		\$8,000,000 (Loudoun County)	\$8,000,000
Right of Way Acquisition	\$10,000,000		\$10,000,000
Utilities Relocations	\$6,000,000		\$6,000,000
Construction		\$102,750,000 (Loudoun County)	\$102,750,000
TOTAL:	\$16,000,000	\$110,750,000	\$126,750,000

Project Analysis Highlights

Congestion Reduction Relative to Cost Ratio (Total Cost in \$1000's): **80.15**

Congestion Reduction Relative to Cost Ratio Rank (Total Cost in \$1000's): **9**

TransAction Project Rating: **85.13**

TransAction Project Rating Rank: **3**

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

Regional Impacts

- Provide multi-modal connections to the new Silver Line Phase 2 Metrorail Stations in Loudoun County
- Enhance quality of life and economic strength
- Reduce congestion and improve travel time
- Increase multimodal access to employees, markets, jobs and destinations
- Improve connections among and within areas of regional growth

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