



Prentice Drive Extension: Lockridge Road (Route 789) to Shellhorn Road (Route 643)

Project Description



Prentice Drive (VA Route 1071/VA Route 1071 Extended/Route 789 Extended) will provide an additional east-west connection across Broad Run. This major collector adds approximately 3.2 miles of 4 new through lanes of Prentice Drive from Shellhorn Road at Metro Center Drive to Lockridge Road and includes an additional connection of Lockridge Road West between Waxpool Road and Prentice Drive. The connection will provide multimodal access between the future Loudoun Gateway and Ashburn Metrorail stations. Specifically, the project provides a new alignment extension of Prentice Drive from the intersection with Lockridge Road to the west where it ties into Metro Center Drive at Shellhorn Road. This link will address a critical need for an additional east-west route across Broad Run to relieve congestion on Waxpool Road. Prentice Drive will also provide an alternative option to using the Dulles Greenway Toll Road. Commuters and commercial vehicles avoid the tolls by using a limited supply of collector roads and which thereby creates congestion on those roadways. Preliminary studies have been completed. This will be an urban, four lane divided roadway facility with on street bike lanes, a sidewalk, and a Shared Use path. This corridor is anticipated to serve bus routes to and from the planned Silver Line Metrorail Stations. It will connect Pacific Boulevard (VA Route 1036) to Shellhorn Road (VA Route 643) at Metro Center Drive in the Ashburn Community.

Reference Number: 2018-026-0
TransAction ID: 179
Submitting Jurisdiction/Agency: Loudoun County
Location: Lockridge Road to Shellhorn Road
Requested NVTA Funds: \$76,230,000
Total Cost to Complete Project: \$102,325,000

This project will impact and improve the following 5 intersections:

- Shellhorn Road and Metro Center Drive/Prentice Drive
- Lockridge Road West and Prentice Drive
- Waxpool Road and Lockridge Road West
- Loudoun County Parkway and Prentice Drive
- Lockridge Road and Prentice Drive

This project includes a large bridge span across the Broad Run floodplain. The western terminus of this corridor will connect to Metro Center Drive, which will provide direct access to the Loudoun Station Drive and a key greenway overpass that connects the north and south side of the station.

Project Location



Project Milestones

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

Project Funding

	Requested NVTA Funds	Other Funding Sources	Total Cost by Phase
Design, Engineering, Environmental Work		\$9,000,000 (Loudoun County CIP)	\$9,000,000
Right of Way Acquisition	\$7,600,000	\$15,400,000 (Loudoun County CIP)	\$23,000,000
Utilities Relocations	\$1,900,000		\$1,900,000
Construction	\$66,730,000	\$1,695,000 (Loudoun County CIP)	\$68,425,000
TOTAL:	\$76,230,000	\$26,095,000	\$102,325,000

Project Analysis Highlights

Congestion Reduction Relative to Cost Ratio (Total Cost in \$1000's):	46.19
Congestion Reduction Relative to Cost Ratio Rank (Total Cost in \$1000's):	18
TransAction Project Rating:	72.95
TransAction Project Rating Rank:	9

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

- Reduce congestion and improve travel time
- Increase access to employees, markets, jobs and destinations
- Improve connectivity

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.