



Construct Interchange at Route 234 and Sudley Manor Drive

Project Description



The project consists of constructing intersection improvements at the intersection of Route 234 (Prince William Parkway) and Sudley Manor Drive. The project will include modifications and improvements to the intersection of Prince William Parkway and Wellington Road. The project will be designed and constructed as a continuous-flow intersection. A continuous-flow intersection is an at-grade, high-capacity design that relocates left turning movements away from the main intersection. Vehicles turning left will cross over through traffic and will be funneled into dedicated turn lanes at a signalized location, several hundred feet upstream of the main intersection. These left-turning vehicles are then able to proceed through the main intersection at the same time as opposing through vehicles without conflict at the main intersection. Eliminating the dedicated left turn phase will improve the efficiency of the main intersection. The project will combine the addition of new lanes and new traffic signals to increase capacity and reduce congestion along this important corridor. Wellington Road will be bridged over Prince William Parkway. Access to Prince William Parkway from Wellington Road will be diverted to the Prince William Parkway and Sudley Manor Drive intersection. Funding requested as part of the application will be for all phases of the project. This intersection was reviewed under the VDOT Strategically Targeted Affordable Roadway Solutions (STARS) program, which is used to develop comprehensive, innovative transportation solutions to improve congestion and solve traffic and safety challenges in the state of Virginia. VDOT has invested \$400,000 in studying the Prince William Parkway Corridor for potential improvements to major intersections.

Reference Number: 2018-033-0
TransAction ID: 222
Submitting Jurisdiction/Agency: Prince William County
Location: Prince William Parkway at Sudley Manor Drive and at Wellington Road
Requested NVTA Funds: \$80,600,000
Total Cost to Complete Project: \$80,600,000

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	X

Project Funding

	Requested NVTA Funds	Other Funding Sources	Total Cost by Phase
Design, Engineering, Environmental Work	\$8,200,000		\$8,200,000
Right of Way Acquisition	\$12,800,000		\$12,800,000
Construction	\$59,600,000		\$59,600,000
TOTAL:	\$80,600,000		\$80,600,000

Project Analysis Highlights

Congestion Reduction Relative to Cost Ratio (Total Cost in \$1000's):	2.84
Congestion Reduction Relative to Cost Ratio Rank (Total Cost in \$1000's):	54
TransAction Project Rating:	70.19
TransAction Project Rating Rank:	19

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 traffic operations at the intersection of Prince William Parkway and Sudley Manor Drive and the intersection with Wellington Road.
- Enhance quality of life and economic strength
- Provide improved safety compared to traditional intersections.

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.