



Northern Virginia Transportation Authority FY2022-2027 Six Year Program

Loudoun County Parkway Interchange at US 50

Date Submitted: 09/30/2021

APPLICATION #: LDN-028

Project Description

Located within the southern portion of Loudoun County, U.S. Route 50 is a critical link for east-west travel in Northern Virginia and in Loudoun County. Within Loudoun County, U.S. Route 50 serves rural land uses in the west, suburban master-planned developments such as South Riding (6,300 homes) and Stone Ridge (4,300 homes) and commercial land uses approaching eastern Loudoun County and into Fairfax County. In Loudoun County, near the corridor's densest locations, US Route 50 carries between 32,000 and 38,000 vehicles per day. East of Loudoun County and through the Sully Road (Route 28) interchange in Fairfax County, US Route 50 carries approximately 71,000 vehicles per day. The intersection with the highest traffic volumes and associated intersection delays is the intersection of U.S. Route 50 and Loudoun County Parkway (Rte. 606). The goal of the widening project was to relieve congestion, provide pedestrian and cyclist accommodations, and to improve safety along the corridor. A significant portion of this daily traffic is composed of commuters that travel to the east in the morning and return west during the evening. This daily commuting pattern and the volume of traffic involved contribute to recurring congestion on US Route 50, particularly during the weekday commuter peak hours of travel. In 2015, the Virginia Department of Transportation (VDOT), in coordination with Loudoun County and Fairfax County, widened US Route 50 from a four- to a six-lane cross-section between Poland Road and Route 28. Construction of the widening project was completed in December 2015. Even with the additional capacity that resulted from the widening, congestion remains a daily issue. A key contributing factor to the congestion along U.S. Route 50 is the number of at-grade, signalized intersections within the corridor. In recognition of the ongoing and increasing congestion, Loudoun County has, as part of its Countywide Transportation Plan, identified several intersections along the U.S. Route 50 corridor at which grade separated interchanges are to be constructed. The U.S. Route 50 / Loudoun County Parkway Interchange project will replace this failing at-grade, signalized intersection with a grade-separated interchange to improve traffic flow on both U.S. Route 50 and the Loudoun County Parkway as well as significantly improve safety conditions at this intersection.

Primary Mode(s)	Secondary Mode(s)
Application Number	LDN-028
Primary TransAction ID Number	169
Submitting Jurisdiction/Agency	Loudoun County
Location	The U.S. Route 50 /Loudoun County Parkway Interchange is located in southern Loudoun County, Virginia. The project is located at the intersection of two of Loudoun County's most heavily traveled roadways near the southern boundary of Washington Dulles International Airport. The project is also located adjacent to one of Loudoun County's largest master planned developments, South Riding. Containing more than 6,300 homes and more than 1,000,000 square feet of commercial development, South Riding is the most significant development in Loudoun County today.
Requested NVTA Funds	\$35,250,000.00
NVTA Funds Approved	\$35,250,000
Previous NVTA Funds Received	\$0.00
Total Cost to Complete Project	\$181,152,680.00

Project Location



Project Milestones

	Study	Design / Engineering / Environmental	ROW and Utilities	Construction	Asset Acquisition
Earlier					
FY21					
FY22		X			
FY23		X			
FY24		X	X		
FY25		X	X		
FY26	X	X	X		
FY27			X	X	
Beyond				X	

Project Funding

Source	Study	Design / Engineering / Environmental	ROW and Utilities	Construction	Asset Acquisition	Total
Total Cost	\$250,000	\$16,692,800	\$14,453,200	\$149,756,680	\$0	\$181,152,680
NVTA Funds Applied	\$250,000	\$3,000,000	\$14,000,000	\$18,000,000	\$0	\$35,250,000
Local		\$13,692,800	\$453,200	\$131,756,680		\$145,902,680
Total Other	\$0	\$13,692,800	\$453,200	\$131,756,680	\$0	\$145,902,680
Gap	\$0	\$0	\$0	\$0	\$0	\$0

Project Analysis Highlights

Congestion Reduction Relative to Cost (CRRC) Rating	6.87
Congestion Reduction Relative to Cost (CRRC) Rank	16
TransAction Project Rating	12.80
TransAction Project Rank	17
Project's Past Performance (Percentage of expected funds that was reimbursed by 12/31/2021)	N/A
Jurisdiction/Agency's Past Performance on All Projects (Percentage of expected funds that was reimbursed by 12/31/2021)	56 %
Percentage of Total Project Cost Covered by Funds from Sources Other than NVTA	81 %
Local Priority	3
Number of Supporting Resolutions (does not include resolution from applicant's own Board/Council)	0
Number of NVTA-Funded Project(s) Nearby	4
Regional Funds allocated to NVTA-Funded Project(s) Nearby	\$160,805,000