



Northern Virginia Transportation Authority

FY2024-2029 Six Year Program

Route 15 at Braddock Road Roundabout

Date Submitted: 07/27/2023

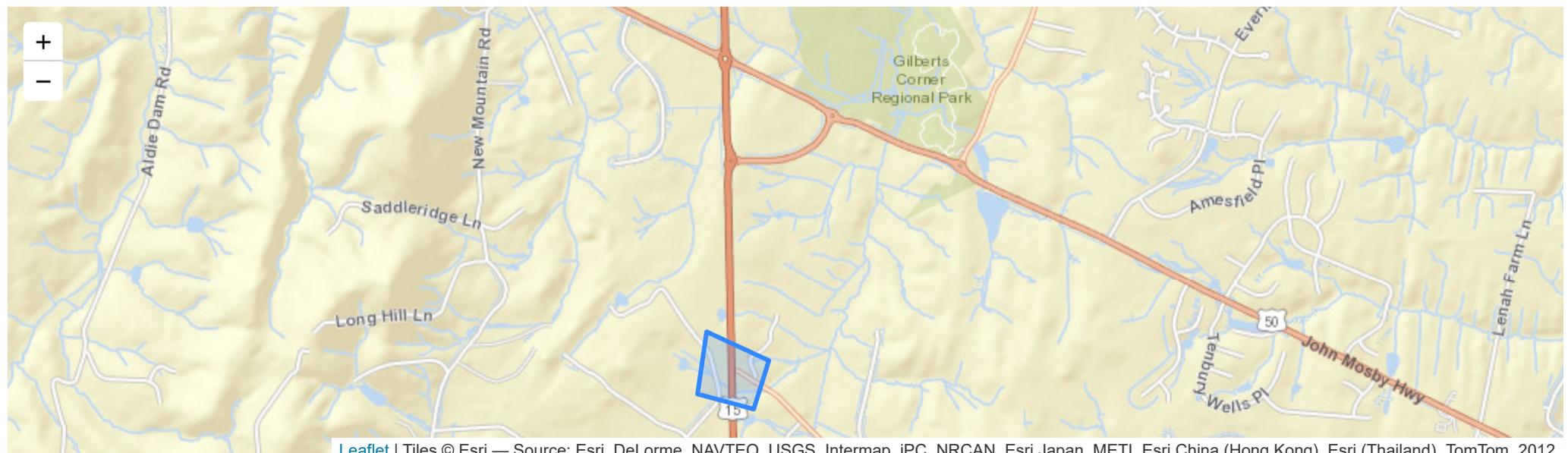
APPLICATION #: LDN-034

Project Description

This project provides for the planning, design, right-of-way acquisition, and construction of a four-legged roundabout at the intersection of Route 15 (James Monroe Highway), Braddock Road (Route 705), and Old Carolina Road (Route 615). At the July 19, 2022 Board of Supervisors Business Meeting County staff presented the Route 15 South Safety and Operational Study to the Board of Supervisors (Board) and obtained Board endorsement for the recommended long-term improvement priorities. Recommended Priority #1 is the Roundabout at Route 15/Braddock Road/Old Carolina Road. This improvement was recommended because the intersection of Route 15/Braddock Road is an existing crash hot spot. The sight distance is limited for vehicles turning from Braddock Road onto Route 15 due to a vertical curve. At the Braddock Road intersection, the existing LOS is E in the AM peak hour and F in the PM peak hour. Future growth is anticipated in this area.

Primary Mode(s)	Secondary Mode(s)
Application Number	LDN-034
Primary TransAction ID Number	311
Submitting Jurisdiction/Agency	Loudoun County
Location	A single four-legged hybrid roundabout at the intersection of Route 15 (James Monroe Highway), Braddock Road (Route 705), and Old Carolina Road (Route 615) in Loudoun County. The hybrid lane configuration of the roundabout includes two approach and circulatory lanes along Route 15 in the southbound direction. The Route 15 northbound approach includes two approach lanes which split to one circulatory lane and a right turn bypass lane to Braddock Road. The Braddock Road approach includes two approach lanes which split to one circulatory lane and a right turn bypass lane to Route 15 northbound. The Old Carolina Road approach is one approach lane that enters the two circulatory lanes of the roundabout.
Requested NVTA Funds	\$10,000,000.00
NVTA Funds Approved	N/A
Previous NVTA Funds Received	\$0.00
Total Cost to Complete Project	\$25,655,000.00

Project Location



Project Milestones

	Study	Design / Engineering / Environmental	ROW and Utilities	Construction	Asset Acquisition
Earlier					
FY23					
FY24		X			
FY25		X			
FY26		X	X		
FY27			X		
FY28			X	X	
FY29				X	
Beyond				X	

Year of expected project completion: FY2031

Project Funding

Source	Study	Design / Engineering / Environmental	ROW and Utilities	Construction	Asset Acquisition	Total
Total Cost	\$0	\$5,536,000	\$3,308,000	\$16,811,000	\$0	\$25,655,000
NVTA Funds Applied	\$0	\$0	\$376,000	\$9,624,000	\$0	\$10,000,000
CMAQ			\$2,932,000	\$1,192,000		\$4,124,000
RSTP				\$5,650,000		\$5,650,000
Local		\$5,536,000		\$345,000		\$5,881,000
Total Other	\$0	\$5,536,000	\$2,932,000	\$7,187,000	\$0	\$15,655,000
Gap	\$0	\$0	\$0	\$0	\$0	\$0

Project Analysis Highlights

Congestion Reduction Relative to Cost (CRRC) Rating	16.34
Congestion Reduction Relative to Cost (CRRC) Rank	14
TransAction Project Rating	15.86
TransAction Project Rank	20
Project's Past Performance (Percentage of expected funds that was reimbursed by 12/31/2023)	N/A
Jurisdiction/Agency's Past Performance on All Projects (Percentage of expected funds that was reimbursed by 12/31/2023)	36.17%
Percentage of Total Project Cost Covered by Funds from Sources Other than NVTA	61.02%
Local Priority	1
Number of Supporting Resolutions (does not include resolution from applicant's own Board/Council)	1
Number of NVTA-Funded Project(s) Nearby	0
Regional Funds allocated to NVTA-Funded Project(s) Nearby	\$0