



SMART SCALE Application

Project Status: Scored

Leeland Rd (Rt 626) Widening w/ Multimodal (Rt 694 to 1950)

Organization: Stafford County

Project ID: 9052

General

Point of Contact Information

Project Point of Contact Name	Project Point of Contact Email	Project Point of Contact Phone
Tom Washignton	twashington@staffordcountyva.gov	(540) 658-4506

Project Information

Project Title	Principal Improvement
Leeland Rd (Rt 626) Widening w/ Multimodal (Rt 694 to 1950)	Bike/Pedestrian

Project Short Description

This project will add a two way left turn lane (TWLTL) on Rte 626 (Leeland Rd) from Julian Drive to Portland Drive. In addition, this project will add sidewalks on both sides of Leeland Rd from Julian Drive to Portland Drive and will add a pedestrian crossing at Walnut Drive with Rapid Flashing Beacon. This project will connect to UPC 109477. Furthermore, it will add bike lanes on each side of Leeland Rd from Julian Drive to Portland Drive.

Improvements to non-VDOT maintained roadways?	Application Program Requested	VDOT District
No	District Grant, Statewide High Priority	Fredericksburg
Has Scope been finalized?		
Yes		

Resiliency Commitment

Has the project been designed to be, or does the project sponsor commit that the design will be resilient?
Yes

Project Eligibility

Project Eligibility

Is the project a study?	No
Is the project a capacity enhancement, operational improvement, ITS or technology improvement, or safety project?	No
Does the project include major features that are either contiguous, proximate, or of the same improvement type? For the purpose of this question and the CTB policy contiguous means adjacent or together in a sequence. Transit stops or stations along a transit route or intersections or spot improvements along a corridor meet the definition of contiguous for the purposes of the project eligibility policy.	Yes
Is project currently fully funded and included in a Capital Improvement Program, MPO Transportation Improvement Program (TIP), or the VDOT, DRPT, or NVTA Six-Year Improvement Program(s)?	No
Does the project include a commitment by a developer through a local zoning approval process (proffered condition)?	No
Is any part of your project within an established MPO study area?	Yes
Is your project identified in or consistent with the regionally adopted Constrained Long Range Plan (CLRP)?	Yes
Link to documentation showing inclusion or consistency with the regionally adopted CLRP	https://www.fampo.gwregion.org/wp-content/uploads/2021/10/FAMPO-CLRP-List-20210920-Approved-For-Conformity-Report.pdf

 Features

Highway Improvements

Access Management

Yes

Comment

Add a 13' two way left turn lane (TWLTL) on Rte 626 (Leeland Rd) from Julian Drive to Portland Drive, total length approximately 2100'.

Bicycle and Pedestrian Improvements

Add/Construct Bike Lane

Yes

Comment

Add 5' bike lane on each side of Rte 626 (Leeland Rd) from Julian Drive to Portland Drive approx 1930' in length per side.

Construct Sidewalk

Yes

Comment

Construct 1500 feet of 5 feet sidewalk on northbound Route 626 (Leeland Drive) from Julian Drive to Walnut Drive. Construct 1930 feet of 5 feet sidewalk on southbound Route 626 (Leeland Road) from Julian Drive to Portland Drive.

Improve Bike/Pedestrian Crossing (At Grade)

Yes

Comment

Add pedestrian crossing at Walnut Dr with Rapid Flashing Beacon which will include ADA ramps as required.

Right-of-Way and Utilities

Right-of-Way/Easements acquisition required

Yes

Comment

Anticipate proposed right-of-way, temporary easements, and permanent easements.

Includes Utility Relocations

Yes

Comment

Existing utilities will require relocation.


 Project Readiness

Project Readiness

NEPA Status

What is the status of NEPA for this project?

Not Started

 Transit

 Location

Location Details

Areas Served

Districts Served

- Fredericksburg

MPOs Served

- Fredericksburg Area Metropolitan Planning Organization

PDCs Served

- George Washington Regional Commission

Jurisdictions Served

- Stafford County

Functional Classifications

- Major Collector

Need Justifications

Location Id	Location Name	Need Category	Market	Justification
465396	Rt. 626S (Stafford County)	Pedestrian Access to Activity Center	RN	No current pedestrian access from Deacon Road to Portland Road. Adding infrastructure to incorporate a connection to existing path along Leeland Road and connection to Leeland Road VRE Station

Location Id	Location Name	Need Category	Market	Justification
465416	Rt. 626N (Stafford County)	TDM (Non-Limited-Access)	RN	Project provides connection to existing multimodal facilities.
466111	Rt. 626S (Stafford County)	TDM (Non-Limited-Access)	RN	Project's bike lanes and sidewalk will connect to existing multi-modal facilities to provide direct access to Leeland Road VRE Station.
465416	Rt. 626N (Stafford County)	Roadway Operations	UDA	Project will provide a two-way left turn lane down middle of roadway to remove left turning vehicles from stopping in the travel lane.
465416	Rt. 626N (Stafford County)	Bicycle Infrastructure	UDA	Project's bike lanes will connect to existing multi-modal facilities to provide direct access to Leeland Road VRE Station.
465416	Rt. 626N (Stafford County)	Pedestrian Infrastructure	UDA	Project's sidewalk will connect to existing multi-modal facilities to provide direct access to Leeland Road VRE Station.
465416	Rt. 626N (Stafford County)	Sidewalks	UDA	Project's sidewalk will connect to existing multi-modal facilities to provide direct access to Leeland Road VRE Station.
465396	Rt. 626S (Stafford County)	TDM (Non-Limited-Access)	RN	Project's bike lanes and sidewalk will connect to existing multi-modal facilities to provide direct access to Leeland Road VRE Station.

Custom VTrans Needs

Do you have a safety study or a study conducted based on a 2019 VTrans Mid-Term need?

No

Factors


Accessibility

Accessibility	Response	Supporting Information
1- Project includes transit system improvements or reduces delay on a roadway with scheduled peak service of one transit vehicle per hour.	No	
2- Project includes improvements to an existing or proposed park and ride lot (e.g., new lot, more spaces, entrance/exit, technology (payment, traveler information)).	N/A	
3- Project includes improvements to existing or new HOV/HOT lanes or ramps to HOV/HOT.	No	
4- Project includes construction or replacement of bike facilities. For bicycle projects, off-road or on-road buffered or clearly delineated facilities are required	YES	Add 5' bike lane on each side of Rte 626 (Leeland Rd) from Julian Drive to Portland Drive approx 1930' in length per side.
5- Project includes construction or replacement of pedestrian facilities. For pedestrian projects, sidewalks, pedestrian signals, marked crosswalks, refuge islands, and other treatments are required (as appropriate).	YES	Construct 1500 feet of 5 feet sidewalk on northbound Route 626 (Leeland Drive) from Julian Drive to Walnut Drive. Construct 1930 feet of 5 feet sidewalk on southbound Route 626 (Leeland Road) from Julian Drive to Portland Drive with a 4' buffer space. - (will connect to UPC 109477).
6- Project provides real-time traveler information or wayfinding specifically for intermodal connections (access to transit station or park and ride lot).	No	
7- Provides traveler information or is directly linked to an existing TMC network/ITS architecture.	No	

Environment

Environment	Response	Supporting Information
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1- Project includes improvements to rail transit or passenger rail facilities?	N/A	
2- Project includes construction or replacement of bike facilities. For bicycle projects, off-road or on-road buffered or clearly delineated facilities are required (i.e. Bike Lane or Shared Use Path).	YES	Add 5' bike lanes on each side of Rte 626 (Leeland Rd) from Julian Drive to Portland Drive
3- Project includes construction or replacement of pedestrian facilities. For pedestrian projects, sidewalks, pedestrian signals, marked crosswalks, refuge islands, and other treatments are required (as appropriate).	YES	Construct 1500 feet of 5 feet sidewalk on northbound Route 626 (Leeland Drive) from Julian Drive to Walnut Drive. Construct 1930 feet of 5 feet sidewalk on southbound Route 626 (Leeland Road) from Julian Drive to Portland Drive with a 4' buffer space. - (will connect to UPC 109477).
4- Project includes improvements to an existing or proposed park-and-ride lot (e.g., new lot, more spaces, entrance/exit, technology (payment, traveler information)).	N/A	
5- Project includes bus facility improvements or reduces delay on a roadway with scheduled peak service of one transit vehicle per hour.	No	
6- Project includes energy efficient infrastructure or fleets, including: hybrid or electric buses, electronic/open road tolling, alternative energy infrastructure (e.g., roadside solar panels).	No	
7- Project includes improvements to freight rail network or intermodal (truck to rail) facilities/ports/terminals	No	

 Delivery & Funding

Project Delivery Information

Project Planning Status

- Transportation Element of Local Comprehensive Plan
- Vision Long Range Plan (MPO)
- Constrained Long Range Plan (MPO)
- State Transportation Plan

Phase Estimate and Schedule

Phase Milestone PE (Survey, Environmental, Design)	Status Not Started		
Base Cost Estimate \$1,396,000.00	Risks/Contingency/Unknowns	Start Date 2023-09-01	End Date
CEI		Phase Estimate + Contingency \$1,703,168.00	
Phase Milestone RW (Right of Way and Easement Acquisition, Utility Relocation)	Status Not Started		
Base Cost Estimate \$5,340,000.00	Risks/Contingency/Unknowns	Start Date 2025-12-04	End Date
CEI		Phase Estimate + Contingency \$6,911,695.00	
Phase Milestone CN (Construction, Oversight, Contingencies)	Status Not Started		
Base Cost Estimate \$6,479,000.00	Risks/Contingency/Unknowns	Start Date 2028-04-11	End Date 2029-08-07
CEI		Phase Estimate + Contingency \$11,291,989.00	

Total Cost Estimate

\$19,906,852

Project Funding Sources

SYIP Allocation

Project UPC/DRPT/ID	UPC Type	UPC Description	VDOT / DRPT (\$)
118292	Project	Leeland Road Widening; Reconstruction w/ Added Capacity Description FROM: Intersection W/ Walnut Drive (SR-622) TO: Intersection W/ Walnut Drive (SR-622). Revenue funding is prior to FY24.	\$5,525,100.00

Total SYIP Allocations

\$5,525,100.00

Other Committed Funds

Other Funds Committed to Project	Description of Fund Type	Amount
County Taxes/ Bond Revenue	In addition to matching the VDOT Revenue Sharing funding, the County has identified an additional \$5,275,142 in Bond/Tax Revenue to contribute to the cost sharing.	\$5,275,142.00

Total Other Committed Funds

\$5,275,142.00

Project Financial Information

Total SYIP Allocations

\$5,525,100.00

Total Other Committed Funds

\$5,275,142.00

Total Requested Funds

\$9,106,610.00

Total Project Funding

\$10,800,242.00

Total Cost Estimate

\$19,906,852.00

 Economic Development Sites

Economic Development Sites

Economic Development Sites

Is this transportation project referenced in local Comprehensive Plan, local Economic Development Strategy or Regional Economic Development Strategy?

Yes

Site Name		Category of Property		User Defined VEDP Tier	
O'Reilly Auto Parts Deacon Road		Detailed Site Plan		N/A	
Area of Development			Driving Distance		
User	Calculated		User	Calculated	
7,627 sqf	43,188 sqf			12956.5 mi	
Construction documents, engineering/architectural drawings, and specifications that include construction requirements for a project. These plans are detailed enough for construction and include details regarding building pad locations, grading, drainage, utilities, parking and entrances.					No
		Detailed Site Plan		N/A	
Area of Development			Driving Distance		
User	Calculated		User	Calculated	
7,627 sqf	43,188 sqf			0.14 mi	
Construction documents, engineering/architectural drawings, and specifications that include construction requirements for a project. These plans are detailed enough for construction and include details regarding building pad locations, grading, drainage, utilities, parking and entrances.					No
Access Provision	Project enhances economic development by improving congestion, mobility, access, or operations in the vicinity of the site but the site is not physically adjacent to the project				

Description	Attachment Type	File Name
OREILLY DEACON RD LETTER.pdf	Approval Document for Site Development Plan	OREILLY DEACON RD LETTER.pdf
OREILLY DEACON RD SITE PLAN.pdf	Site Development Plan	OREILLY DEACON RD SITE PLAN.pdf
OREILLY DEACON RD_Part1.pdf	Site Development Plan	OREILLY DEACON RD_Part1.pdf
OREILLY DEACON RD_Part2.pdf	Site Development Plan	OREILLY DEACON RD_Part2.pdf
OREILLY DEACON RD_Part3.pdf	Site Development Plan	OREILLY DEACON RD_Part3.pdf
OREILLY DEACON RD_Part4.pdf	Site Development Plan	OREILLY DEACON RD_Part4.pdf
OREILLY DEACON RD_Part5.pdf	Site Development Plan	OREILLY DEACON RD_Part5.pdf
OREILLY DEACON RD_Part6.pdf	Site Development Plan	OREILLY DEACON RD_Part6.pdf
OREILLY DEACON RD_Part7.pdf	Site Development Plan	OREILLY DEACON RD_Part7.pdf
OREILLY DEACON RD_Part8.pdf	Site Development Plan	OREILLY DEACON RD_Part8.pdf
OREILLY DEACON RD_Part9.pdf	Site Development Plan	OREILLY DEACON RD_Part9.pdf
OREILLY DEACON RD_Part10.pdf	Site Development Plan	OREILLY DEACON RD_Part10.pdf
OREILLY DEACON RD_Part11.pdf	Site Development Plan	OREILLY DEACON RD_Part11.pdf
OREILLY DEACON RD_Part12.pdf	Site Development Plan	OREILLY DEACON RD_Part12.pdf

Description	Attachment Type	File Name
OREILLY DEACON RD LETTER.pdf	Approval Document for Site Development Plan	OREILLY DEACON RD LETTER.pdf
OREILLY DEACON RD SITE PLAN.pdf	Site Development Plan	OREILLY DEACON RD SITE PLAN.pdf
OREILLY DEACON RD_Part1.pdf	Site Development Plan	OREILLY DEACON RD_Part1.pdf
OREILLY DEACON RD_Part2.pdf	Site Development Plan	OREILLY DEACON RD_Part2.pdf
OREILLY DEACON RD_Part3.pdf	Site Development Plan	OREILLY DEACON RD_Part3.pdf
OREILLY DEACON RD_Part4.pdf	Site Development Plan	OREILLY DEACON RD_Part4.pdf
OREILLY DEACON RD_Part5.pdf	Site Development Plan	OREILLY DEACON RD_Part5.pdf
OREILLY DEACON RD_Part6.pdf	Site Development Plan	OREILLY DEACON RD_Part6.pdf
OREILLY DEACON RD_Part7.pdf	Site Development Plan	OREILLY DEACON RD_Part7.pdf
OREILLY DEACON RD_Part8.pdf	Site Development Plan	OREILLY DEACON RD_Part8.pdf
OREILLY DEACON RD_Part9.pdf	Site Development Plan	OREILLY DEACON RD_Part9.pdf
OREILLY DEACON RD_Part10.pdf	Site Development Plan	OREILLY DEACON RD_Part10.pdf
OREILLY DEACON RD_Part11.pdf	Site Development Plan	OREILLY DEACON RD_Part11.pdf
OREILLY DEACON RD_Part12.pdf	Site Development Plan	OREILLY DEACON RD_Part12.pdf

Supporting Documents

Are all the supporting documents requested in final form at this time?

Yes

Attachment Type	Description	File Name	Is Cloned	Upload Date
Planning Study/Safety Study	2019 SC BP Facilities Plan_Proposed Facility Map.pdf	2019 SC BP Facilities Plan_Proposed Facility Map.pdf	Yes	2022-03-31 9:01:32
Projected or Existing Ridership	VRE Ridership Data for Leeland Road Station 07-01-2021-to-06-30-2022.pdf	VRE Ridership Data for Leeland Road Station 07-01-2021-to-06-30-2022.pdf	No	2022-07-26 10:47:10
Project Sketch	SSRD5 9052 Stafford Leeland Rd Widen_Sheets01thru02 FULL APP1.pdf	SSRD5 9052 Stafford Leeland Rd Widen_Sheets01thru02 FULL APP1.pdf	No	2022-07-28 13:44:27
Governing Body Resolution of Support	R22-184.cap.proj.tran.pdf	R22-184.cap.proj.tran.pdf	No	2022-08-01 8:40:53
MPO Required Resolution of Support	FAMPO full reso 22-40.pdf	FAMPO full reso 22-40.pdf	No	2022-08-01 8:41:02
Capital Improvement Plan	Copy of FY23-32 CIP Projects - Transportation - (ADOPTED).pdf	Copy of FY23-32 CIP Projects - Transportation - (ADOPTED).pdf	No	2022-08-01 13:46:31
Capital Improvement Plan	Stafford County FY24-33 Transportation CIP - Leeland Road Details.pdf	Stafford County FY24-33 Transportation CIP - Leeland Road Details.pdf	No	2022-11-02 13:54:53
Other Committed Funds	Stafford County Funding Commitments.pdf	Stafford County Funding Commitments.pdf	No	2022-11-10 10:39:24
Detailed Cost Estimate	SSRD5 9052 Stafford Leeland Rd Widen_Estimate FULL APP1REV.pdf	SSRD5 9052 Stafford Leeland Rd Widen_Estimate FULL APP1REV.pdf	No	2022-12-01 8:41:02
Other	email SSR5 app #s 8981, 9052, 9253 & 9054 EC DEV deficiencies noted.pdf	email SSR5 app _s 8981_ 9052_ 9253 _ 9054 EC DEV deficiencies noted.pdf	No	2022-12-30 16:29:53
Other	STAFFORD COUNTY SUMMARY OF RECD ITEMS.pdf	STAFFORD COUNTY SUMMARY OF RECD ITEMS.pdf	No	2022-12-30 16:29:55

State's Understanding

State's Understanding of Project Scope

1. Construct approximately 1930 feet of 5 feet bike lane along both directions of Route 626 (Leeland Road) from Julian Drive to Portland Drive. 2. Construct 1500 feet of 5 feet sidewalk on northbound Route 626 (Leeland Drive) from Julian Drive to Walnut Drive. 3. Construct 1930 feet of 5 feet sidewalk on southbound Route 626 (Leeland Road) from Julian Drive to Portland Drive. 4. Install 1 pedestrian crosswalk with Rapid Flashing Beacon and pedestrian refuge at southern leg of Route 626/Walnut Drive. 5. Install two way left turn lane (TWLTL) for about 2100 feet on Route 262 (Leeland Road) between Julian Drive and Portland Drive.

Reviewer	Agreed On	Disagreed On
District Validator	2022-09-19 16:18:42	
Applicant	2022-09-20 8:40:44	

Project Located in Typology														
Category B	Congestion Mitigation		Safety		Accessibility			Economic Development			Environment		Land Use	
Measure	Increase in Peak Period Person Throughput	Reduction in Peak Period Delay	Reduction in Fatal and Injury Crashes	Reduction in Fatal and Injury Crash Rate	Increase in Access to Jobs	Increase in Access to Jobs for Disadvantaged Populations	Increase in Access to Multimodal Travel Choices	Square Feet of Commercial and Industrial Development Supported	Tons of Goods Impacted	Improvement to Travel Time Reliability	Potential to Improve Air Quality	Other Factor Values Scaled by Potential Acreage Impacted	Future Transportation-Efficient Land Use	Increase Transportation-Efficient Land Use
Measure Value	15.04 persons	0 person hrs.	30.12 EPDO	2994.07 EPDO/100M VMT	5.94 jobs per resident	4.81 jobs per resident	45.13 adjusted users	13682.84 thousand adj. sq. ft.	0 thousand adj. daily tons	3420358.52 adj. buffer time index	2.24 adjusted points	0 scaled points	0.54 access * pop/emp density.h	0.65 access * pop/emp density change
Normalized Measure Value (0-100)	0.61	0	5.47	1.75	1.09	1.04	3.63	0.07	0	0.06	2.24	0	0.78	0.95
Measure Weight (% of Factor)	50 %	50 %	70 %	30 %	60 %	20 %	20 %	60 %	20 %	20 %	100 %	*	50 %	50 %
Factor Value	0.3		4.35		1.59			0.06			2.24		0.86	
Factor Weight (% of Project Score)	0.15%		0.2%		0.2%			0.2%			0.1%		5 (max point reduction) 0.15%	
Weighted Factor Value	0.05		0.87		0.32			0.01			0.22		0.13	
Project Benefit	1.6													
SMART SCALE Cost	9106610													
SMART SCALE Score (Project Benefit per \$10m SMART SCALE Cost)	1.76													

* The second environment measure subtracts up to 5 points from the project benefit score. Because it is subtracted after combining all weighted factors, it has no measure weight and the 10% factor weight is not applied to it.

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