

NORTHERN VIRGINIA TRANSPORTATION AUTHORITY**MEMORANDUM**

FOR: Chair Phyllis J. Randall and Members
Northern Virginia Transportation Authority

FROM: Monica Backmon, Chief Executive Officer

DATE: April 14, 2022

SUBJECT: Project Evaluations for the FY2022-2027 Six Year Program Update

- 1. Purpose:** To inform the Northern Virginia Transportation Authority (NVTa) of the project evaluations and Public Comment Period, specifically the Public Comment Packet, for the FY2022-2027 Six Year Program (SYP).
- 2. Background:** The SYP is updated on a two-year cycle alternating with the Commonwealth's SmartScale Program, which is also on a two-year cycle. Development of the Authority's FY2022-2027 SYP, using FY2026 and FY2027 regional revenues, will follow a similar version of the process used for the previous SYPs. This process was initiated by a Call for Regional Transportation Projects (CfRTP) on July 1, 2021, targeted at eligible jurisdictions and agencies. The deadline for applications was October 1, 2021, and for Governing Body resolutions the deadline was December 3, 2021.

As of March 10, 2022, the Authority approved May 12, 2022, as the date for the SYP Public Hearing, which will be held at 7:00pm immediately prior to the Authority's regular monthly meeting. The Authority also approved Friday, April 15, 2022, through midnight on Sunday, May 22, 2022, as the start/finish dates for the Public Comment Period. During this period, an Open House will be held on May 4, 2022, at the Annual Joint Transportation Meeting hosted by Virginia Department of Transportation (VDOT). NVTa and VDOT staff are coordinating on logistical details for the Open House.

Both the Open House and Public Hearing will be held in-person. Additionally, remote participation options will be available for citizens and stakeholders to submit testimony at the Public Hearing.

- 3. Discussion:** Working with NVTa's consultant team, NVTa staff have been evaluating the 26 candidate regional transportation projects over the past several months. During the March meeting cycle, NVTa staff briefed standing and advisory committee members on the SYP project evaluation process. Committees briefed were the Authority's two Statutory Committees – Technical Advisory Committee (TAC) and Planning Coordination Advisory Committee (PCAC) –and the Planning and Programming Committee (PPC). NVTa staff will provide future briefings to committee members in April and/or May, in preparation for seeking endorsement of the NVTa staff recommendations at the June Authority meeting.

The Public Comment Packet comprises:

- a. Map of project locations
- b. Summary of project evaluations
- c. Congestion reduction relative to cost (CRRC) ratings
 - . TransAction rating
- e. Two-page summary of the 26 candidate regional transportation projects ¹

The summary of project evaluations lists the 26 candidate projects ranked by their congestion reduction relative to cost scores, with the highest performing project at the top. Other model-based quantitative evaluations include the TransAction project ratings/rankings (using the ten weighted performance measures), and the status of long-term benefit for each of the member jurisdictions (counties and cities only) that submitted project funding applications. The summary of project evaluations also includes qualitative considerations such as past performance at advancing projects funded by NVTAs regional revenues, and the scale of external funding.

Not included in the summary are other components that cannot be addressed at this time, such as modal/geographic balance and public comments. Additionally, the summary does not include NVTAs staff recommendations.

NVTAs website includes a dedicated webpage [<https://thenovaauthority.org/fy2022-2027-six-year-program/>] covering all aspects of the SYP, including the full Public Comment Packet, Frequently Asked Questions (FAQs), and explanatory videos.

4. Next Steps:

- a. **April 15 – May 22, 2022:** Public Comment Period
- b. **May 4, 2022:** Open House at VDOT
- c. **May 12, 2022:** Public Hearing at NVTAs (prior to regularly scheduled Authority meeting)
- d. **June 9, 2022:** Briefing on public comments to NVTAs at its regularly scheduled Authority meeting
- e. **June 2022:** Release of NVTAs staff project recommendations for review and endorsement by TAC, PCAC, and PPC
- f. **July 14, 2022:** Authority adoption of FY2022-2027 SYP.



































































Attachments:

- A. NVTAs FY2022-2027 SYP Candidate Project
- B. NVTAs FY2022-2027 SYP Candidate Project Map
- C. NVTAs FY2022-2027 SYP Quantitative and Qualitative Evaluation Summary
- D. NVTAs FY2022-2027 SYP DRAFT Congestion Reduction Relative to Cost (CRRC) Ratings
- E. NVTAs FY2022-2027 SYP DRAFT TransAction Ratings









¹ FY2022-2025 SYP Webpage <https://thenovaauthority.org/fy2022-2027-six-year-program/>.

Northern Virginia Transportation Authority
Summary of FY2022-2027 Six Year Program Candidate Projects

4/14/2022

#	Application ID	Jurisdiction / Agency	Project	Fund request	Total project cost	Primary and supporting modal components
1	ARL-021	Arlington Co	Ballston-MU Metrorail Station West Entrance	\$ 80,000,000	\$ 150,000,000	 
2	FFX-131	Fairfax Co	Richmond Highway Widening From Mt. Vernon Memorial Highway/Jeff Todd Way to Sherwood Hall Lane	\$ 60,207,038	\$ 415,000,000	   
3	FFX-128	Fairfax Co	Richmond Highway (Route 1) BRT	\$ 80,000,000	\$ 730,000,000	 
4	FFX-121	Fairfax Co	Soapstone Drive Extension: Sunset Hills Road to Sunrise Valley Drive	\$ 73,793,037	\$ 235,000,000	  
5	FFX-119	Fairfax Co	Frontier Drive Extension and Intersection Improvements	\$ 145,200,000	\$ 180,200,000	  
6	FFX-126	Fairfax Co	Fairfax County Parkway Widening: Nomes Court to Route 123	\$ 108,000,000	\$ 115,035,882	    
7	FFX-125	Fairfax Co	Seven Corners Ring Road Improvements: Arlington Boulevard (Route 50) Westbound Ramp to Castle Place/Sleepy Hollow Road	\$ 94,800,000	\$ 94,800,000	   
8	FFX-124	Fairfax Co	8 New Battery Electric Buses - Fairfax Connector Buses for Tysons to Franconia Service	\$ 10,000,000	\$ 10,000,000	
9	LDN-025	Loudoun Co	Route 7 Improvements: Route 9 to Dulles Greenway	\$ 20,000,000	\$ 130,992,500	
10	LDN-028	Loudoun Co	Loudoun County Parkway Interchange at US 50	\$ 35,250,000	\$ 181,152,680	 
11	LDN-024	Loudoun Co	Ryan Road Widening (Phase 2): Evergreen Mills Road to Beaverdam Drive	\$ 16,000,000	\$ 31,500,000	
12	LDN-023	Loudoun Co	Route 7 Corridor ITS Implementation Program	\$ 2,500,000	\$ 3,777,000	
13	PWC-031	Prince William Co	Construct Interchange at Prince William Parkway and Minnieville Road	\$ 67,500,000	\$ 70,000,000	  
14	PWC-030	Prince William Co	Route 1 at Route 123 Interchange	\$ 61,200,000	\$ 68,000,000	  
15	PWC-027	Prince William Co	Van Buren Road North Extension: Route 234 to Cardinal Drive	\$ 80,000,000	\$ 82,000,000	  
16	PWC-029	Prince William Co	Devlin Road (South) Widening: Linton Hall Road to University Boulevard	\$ 35,000,000	\$ 40,000,000	  
17	PWC-028	Prince William Co	University Boulevard Extension: Devlin Road to Wellington Road	\$ 53,000,000	\$ 100,000,000	  
18	PWC-036	Prince William Co	Old Bridge Road Widening: Colby Drive to Minnieville Road	\$ 25,000,000	\$ 25,000,000	
19	PWC-037	Prince William Co	Neabsco Road Improvements - Neabsco Road Widening: Route 1 to Daniel Ludwig Drive	\$ 26,500,000	\$ 26,500,000	
20	PWC-035	Prince William Co	Old Centreville Road Widening: Fairfax County Line to Route 28	\$ 96,000,000	\$ 96,000,000	  
21	ALX-018	City of Alexandria	West End Transitway Phase 1b: South Van Dorn Street and Bridge Design	\$ 5,000,000	\$ 40,999,440	  
22	ALX-020	City of Alexandria	Alexandria Bike and Pedestrian Trails Construction and Reconstruction: Holmes Run Trail - Dora Kelly Fair-weather Crossing Bridge	\$ 5,000,000	\$ 5,500,000	 
23	CFC-008	City of Falls Church	North Washington Street Multimodal Improvements Project: Great Falls Street to Gresham Place	\$ 22,500,000	\$ 22,500,000	  
24	MAN-002	City of Manassas	Liberia Avenue 3rd Lane Eastbound: Route 28 to Euclid Avenue	\$ 8,851,639	\$ 8,851,639	  
25	HND-005	Town of Herndon	Herndon Parkway Improvements at Worldgate Drive Extension	\$ 4,581,000	\$ 6,536,000	  
26	LEE-010	Town of Leesburg	Interchange Improvements at Route 15 Leesburg Bypass and Edwards Ferry Road	\$ 13,283,839	\$ 185,074,950	  
26			TOTAL	\$ 1,229,166,553	\$ 3,054,420,091	

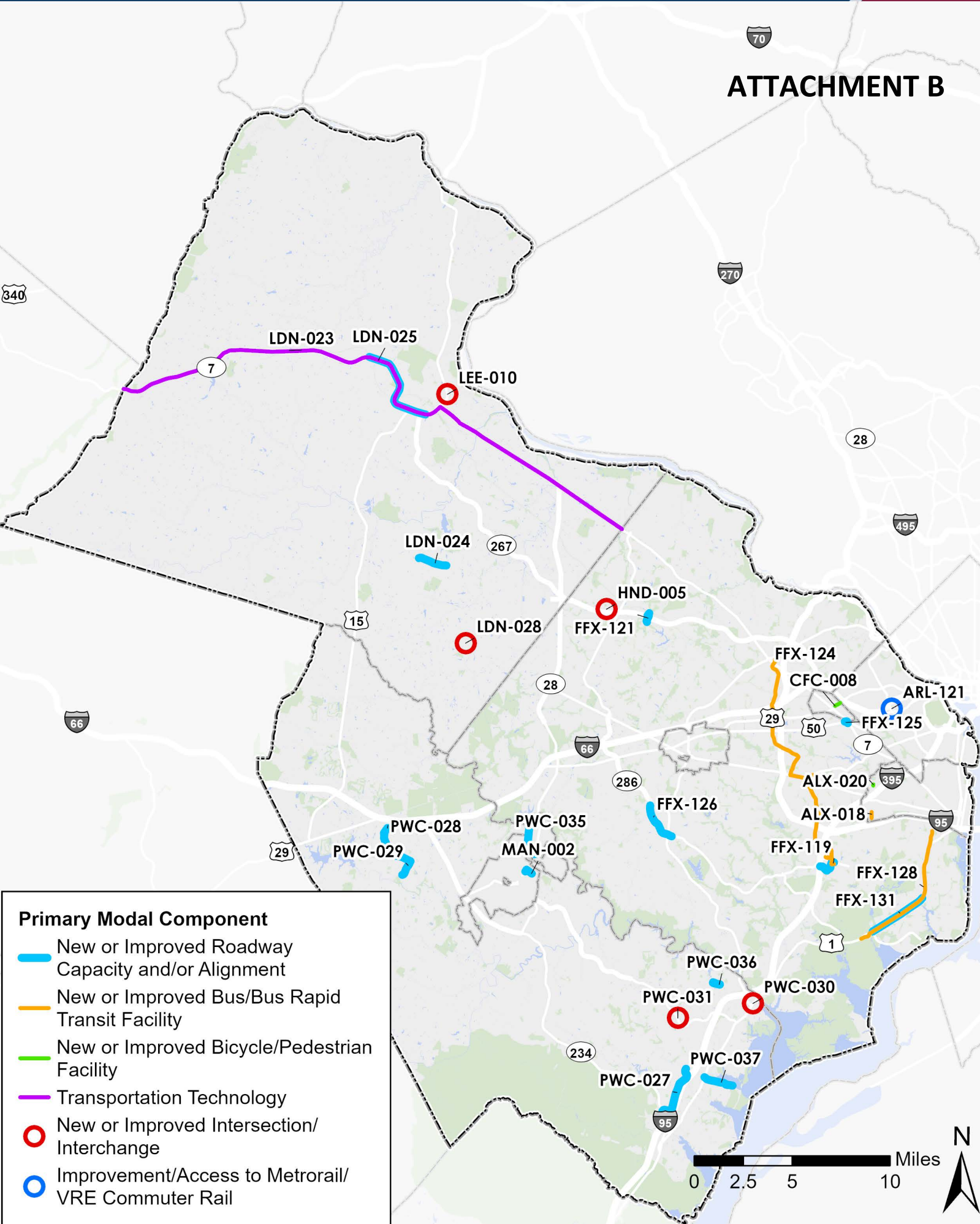
Modal Components

-  New or improved roadway capacity and/or alignment
-  New or improved intersection/interchange
-  Improvement/access to Metrorail/VRE commuter rail
-  New or improved bus/BRT facility
-  New or improved bicycle/pedestrian facility
-  New or improved bicycle facility
-  New or improved pedestrian facility
-  Transportation Technology

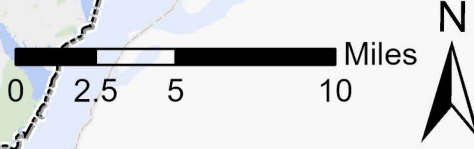
First symbol reflects the primary modal component, other symbols denote supporting modal components



ATTACHMENT B



- Primary Modal Component**
- New or Improved Roadway Capacity and/or Alignment
 - New or Improved Bus/Bus Rapid Transit Facility
 - New or Improved Bicycle/Pedestrian Facility
 - Transportation Technology
 - New or Improved Intersection/Interchange
 - Improvement/Access to Metrorail/VRE Commuter Rail



Northern Virginia Transportation Authority

FY2022-27 Six Year Program Candidate Projects: CRRC Ratings

4/14/2022

Application ID	Jurisdiction	Project Title	CRRC Rating	CRRC Rank	Total Project Cost	Requested Amount
LDN-023	Loudoun Co	Route 7 Corridor ITS Implementation Program	2064.26	1	\$ 3,777,000	\$ 2,500,000
LDN-025	Loudoun Co	Route 7 Improvements: Route 9 to Dulles Greenway	110.79	2	\$ 130,992,500	\$ 20,000,000
FFX-126	Fairfax Co	Fairfax County Parkway Widening: Nomes Court to Route 123	105.22	3	\$ 115,035,882	\$ 108,000,000
PWC-035	Prince William Co	Old Centreville Road Widening: Fairfax County Line to Route 28*	104.72	4	\$ 96,000,000	\$ 96,000,000
PWC-028	Prince William Co	University Boulevard Extension: Devlin Road to Wellington Road	88.43	5	\$ 100,000,000	\$ 53,000,000
PWC-027	Prince William Co	Van Buren Road North Extension: Route 234 to Cardinal Drive	70.77	6	\$ 82,000,000	\$ 80,000,000
MAN-002	City of Manassas	Liberia Avenue 3rd Lane Eastbound: Route 28 to Euclid Avenue	69.11	7	\$ 8,851,639	\$ 8,851,639
PWC-036	Prince William Co	Old Bridge Road Widening: Colby Drive to Minnieville Road	64.48	8	\$ 25,000,000	\$ 25,000,000
FFX-124	Fairfax Co	8 New Battery Electric Buses - Fairfax Connector Buses for Tysons to Franconia Service	48.88	9	\$ 10,000,000	\$ 10,000,000
PWC-029	Prince William Co	Devlin Road (South) Widening: Linton Hall Road to University Boulevard	28.99	10	\$ 40,000,000	\$ 35,000,000
FFX-131	Fairfax Co	Richmond Highway Widening From Mt. Vernon Memorial Highway/Jeff Todd Way to Sherwood Hall Lane	21.95	11	\$ 415,000,000	\$ 60,207,038
HND-005	Town of Herndon	Herndon Parkway Improvements at Worldgate Drive Extension	17.94	12	\$ 6,536,000	\$ 4,581,000
LDN-024	Loudoun Co	Ryan Road Widening (Phase 2): Evergreen Mills Road to Beaverdam Drive	17.50	13	\$ 31,500,000	\$ 16,000,000
PWC-031	Prince William Co	Construct Interchange at Prince William Parkway and Minnieville Road	13.55	14	\$ 70,000,000	\$ 67,500,000
PWC-030	Prince William Co	Route 1 at Route 123 Interchange	7.37	15	\$ 68,000,000	\$ 61,200,000
LDN-028	Loudoun Co	Loudoun County Parkway Interchange at US 50	6.87	16	\$ 181,152,680	\$ 35,250,000
FFX-128	Fairfax Co	Richmond Highway (Route 1) BRT	5.97	17	\$ 730,000,000	\$ 80,000,000
FFX-125	Fairfax Co	Seven Corners Ring Road Improvements: Arlington Boulevard (Route 50) Westbound Ramp to Castle Place/Sleepy Hollow Road	5.13	18	\$ 94,800,000	\$ 94,800,000
FFX-121	Fairfax Co	Soapstone Drive Extension: Sunset Hills Road to Sunrise Valley Drive	4.65	19	\$ 235,000,000	\$ 73,793,037
PWC-037	Prince William Co	Neabsco Road Improvements - Neabsco Road Widening: Route 1 to Daniel Ludwig Drive	3.85	20	\$ 26,500,000	\$ 26,500,000
FFX-119	Fairfax Co	Frontier Drive Extension and Intersection Improvements	3.79	21	\$ 180,200,000	\$ 145,200,000
ALX-018	City of Alexandria	West End Transitway Phase 1b: South Van Dorn Street and Bridge Design	2.77	22	\$ 40,999,440	\$ 5,000,000
LEE-010	Town of Leesburg	Interchange Improvements at Route 15 Leesburg Bypass and Edwards Ferry Road	1.83	23	\$ 185,074,950	\$ 13,283,839
ARL-021	Arlington Co	Ballston-MU Metrorail Station West Entrance	1.28	24	\$ 150,000,000	\$ 80,000,000
ALX-020	City of Alexandria	Alexandria Bike and Pedestrian Trails Construction and Reconstruction: Holmes Run Trail - Dora Kelly Fair-weather Crossing Bridge	0.20	25	\$ 5,500,000	\$ 5,000,000
CFC-008	City of Falls Church	North Washington Street Multimodal Improvements Project: Great Falls Street to Gresham Place	0.15	26	\$ 22,500,000	\$ 22,500,000

* For consistency in analyses, this project was analyzed without the NVTa-funded RT28 Corridor Improvements (RT28 Bypass) project in the future no-build and build networks.

Northern Virginia Transportation Authority
FY2022-27 Six Year Program Candidate Projects: TransAction Ratings

4/14/2022

Application ID		Project Name	Performance Measures										TransAction Rating	TransAction Rating Rank
			Auto PHD Reduction (A1)	Transit PHD Reduction (A2)	Congestion Duration Reduction (B1)	Growth in PMT in Dedicated ROW (B2)	Growth in Total Access (C1)	Growth in Total EEA Access (C2)	Ped-Bike-Transit Environment (D1)	Safety Points (E1)	Emissions Reduction (F1)	Surge PHT Increase (G1)		
		Weights	10%	10%	10%	10%	10%	10%	15%	10%	10%	5%	100%	
FFX-126		Fairfax County Parkway Widening (Nomes Court to Route 123)	100.00	25.64	100.00	0.00	100.00	71.35	1.20	46.15	100.00	34.20	56.20	1
FFX-128		Richmond Highway (Route 1) Bus Rapid Transit	24.30	100.00	0.00	100.00	17.73	53.14	29.04	61.54	23.58	42.20	44.50	2
FFX-131		Richmond Highway Widening From Route 235 North to Route 235 South	41.12	36.69	34.33	0.00	36.73	61.33	16.13	92.31	34.41	37.39	37.98	3
PWC-035		Old Centreville Road Widening: Fairfax County Line to Route 28	54.77	17.99	48.72	0.00	69.83	91.48	4.52	30.77	26.01	30.20	36.15	4
LDN-025		Route 7 Improvements	86.05	2.83	87.83	0.00	17.44	0.00	2.42	38.46	68.86	56.16	33.32	5
ALX-018		West End Transitway Phase 1b	0.05	4.82	0.00	2.52	77.65	100.00	45.06	30.77	0.00	47.86	30.73	6
PWC-028		University Boulevard Extension: Devlin Road to Wellington Road	51.12	3.12	49.98	0.00	23.79	19.22	5.05	46.15	48.83	44.68	27.21	7
ARL-021		Ballston-MU Metrorail Station West Entrance	0.00	13.03	0.00	14.70	9.65	48.07	100.00	23.08	0.00	4.55	26.08	8
LDN-023		Northern Virginia ITS/ICM Improvements	67.31	0.00	25.44	0.00	0.00	0.00	2.97	69.23	23.16	22.73	20.10	9
FFX-121		Soapstone Drive Extension	3.80	16.15	27.16	3.11	2.80	0.00	34.77	61.54	4.19	51.11	19.65	10
LEE-010		Interchange Improvements at Route 15 Leesburg Bypass and Edwards Ferry Road	0.64	15.86	0.00	0.00	1.08	7.00	14.12	100.00	2.16	63.61	17.97	11
HND-005		Herndon Parkway Improvements at Worldgate Drive Extension	0.54	0.00	17.49	0.00	0.00	0.00	13.53	76.92	35.36	49.09	17.52	12
PWC-027		Van Buren Road North	30.80	6.66	2.99	0.00	7.94	16.56	6.69	46.15	23.12	54.78	17.16	13
FFX-124		Connector Buses (8 New) - Fairfax Connector Buses for Tysons to Franconia Service	0.00	33.29	35.16	10.60	18.94	32.58	0.00	7.69	0.00	43.34	15.99	14
CFC-008		North Washington Street Multimodal Improvements Project	0.03	0.00	0.00	0.00	0.00	0.00	36.78	69.23	0.00	40.94	14.49	15
PWC-031		Construct Interchange at Prince William Parkway and Minnieville Road	4.40	19.69	0.78	0.00	0.00	3.70	6.57	76.92	0.00	44.37	13.75	16
LDN-028		Loudoun County Parkway Interchange at US 50	6.70	14.59	0.17	0.00	14.00	3.40	4.25	61.54	4.78	32.79	12.80	17
PWC-036		Old Bridge Road Widening: Colby Drive to Minnieville Road	7.33	14.59	8.16	0.00	9.18	8.46	4.09	38.46	7.88	40.18	12.03	18
PWC-030		Route 1 at Route 123 Interchange	2.05	3.54	0.00	0.00	13.47	21.36	5.99	30.77	2.76	52.32	10.91	19
LDN-024		Ryan Road Widening (Phase 2)	2.20	2.12	0.40	0.00	0.10	1.86	2.33	53.85	2.11	53.31	9.28	20
PWC-029		Devlin Road Widening: Linton Hall Road to University Boulevard	6.45	0.28	7.95	0.00	7.32	0.00	3.94	30.77	8.35	46.82	9.04	21
FFX-125		Seven Corners Ring Road Improvements	3.18	3.40	0.41	0.00	0.00	2.58	11.19	38.46	3.57	39.83	8.83	22
FFX-119		Frontier Drive Extension and Intersection Improvements	3.76	2.27	2.41	0.00	1.39	6.61	8.46	30.77	1.08	47.36	8.46	23
MAN-002		Liberia Avenue 3rd Lane Eastbound	2.49	2.83	3.54	0.00	3.36	6.39	6.76	30.77	0.75	35.22	7.79	24
ALX-020		Alexandria Bike and Pedestrian Trails Construction and Reconstruction	0.01	0.00	0.00	0.00	0.10	0.20	12.36	23.08	0.01	43.10	6.35	25
PWC-037		Neabsco Road Improvements	0.00	6.80	0.00	0.00	0.00	1.28	0.00	23.08	0.00	0.00	3.12	26