

Evaluation of Significant Transportation Projects in Northern Virginia

FINAL Project Ratings for NVTA FY2018-23 Six Year Program (Horizon Year 2040)

ID	Project Title	Sq. Mi	PHD	RouteMi/SqMi	Cong PHT/SqMi	Cong PHT/SqMi	Hours*/SqMi	Max Hour	Jobs	Percent	Minutes	Qual Score	EPDO Value	Qual Score	PMT/VMT	VMT/SqMi	PMT/SqMi	Overall Rating
																		Rating
		1.1.1	1.1.2	1.1.3	1.1.4	1.2.2	1.2.1	1.3.2	1.3.1	1.4.1	1.4.2	2.1.1	2.2.1	2.3.1	3.1.1	2.4.1		
		Total Person Hours of Delay	Transit Crowding [transit route-miles]	Person Hours of Congested Travel in Automobiles	Person Hours of Congested Travel in Transit Vehicles	Congestion Duration [hours*lane-miles]	Congestion Severity: Maximum Travel Time Ratio	Number of jobs within 45 mins by auto or within 60 mins by transit	Percentage of jobs / population within 1/2 mile of high quality transit	Average travel time per trip between Regional Activity Centers [minutes]	Walkable / bikeable environment within a Regional Activity Center	Safety of the transportation system	First and last mile connections	Person Miles per Vehicle Mile	Vehicle miles traveled (VMT) at speeds with high emission rates	Person Hours of travel caused by 10% increase in PM peak hour demand		
2018-024-0	Route 28 Northbound Widening –between the Dulles Toll Road and Sterling	2.7	8,039	-	3,228	7	-	0.18	420,673	0%	1.52	2.01	-	0.95	-	6,206	-	90.00
2018-007-0	Richmond Highway Bus Rapid Transit - Phases I & II	3.5	6,106	12	1,887	122	29	0.26	518,412	36%	0.73	5.69	74	0.42	0.01	7,726	43	85.86
2018-023-0	Extend Shellhorn Road: Loudoun County Parkway (Route 607) to Randolph Drive (Route	1.9	4,468	-	3,087	12	-	1.10	678,360	0%	4.52	-	-	1.90	-	11,989	-	85.13
2018-021-0	Route 15 Bypass Widening: Battlefield Parkway to Montresor Road	4.3	8,456	-	2,355	2	8	1.76	422,028	0%	1.55	-	-	-	-	12,000	54	80.77
2018-019-0	Route 28 Widening (Northbound from Route 50 to McLearn Road)	3.2	5,497	2	1,826	10	3	0.78	618,188	0%	1.57	-	-	-	-	8,503	295	79.18
2018-016-2	Fairfax County Parkway Widening from Ox Road to Lee Highway includes a grade separated	2.7	3,131	-	-	0	-	0.20	778,908	0%	0.42	-	31	-	0.02	-	261	76.40
2018-017-0	Rock Hill Road Bridge	0.9	1,871	-	2,445	4	-	0.18	413,853	0%	1.30	3.00	-	3.00	-	6,996	-	75.22
2018-06-1	Route 1 Widening (Mount Vernon Memorial Highway to Napper Road)	3.7	4,630	3	1,174	72	10	0.44	502,972	0%	1.08	4.94	-	-	0.01	1,737	39	75.14
2018-026-0	Prentice Drive Extension: Lockridge Road (Route 789) to Shellhorn Road (Route 643)	1.6	1,310	-	1,919	17	-	0.50	656,247	0%	3.41	-	-	1.10	-	7,990	60	72.95
2018-053-1	Widen Route 1 (Fraleigh Blvd) to six lanes between Brady's Hill Rd and Dumfries Rd (RT234)	2.7	2,494	1	772	5	6	0.16	773,509	0%	-	-	-	-	-	1,458	-	72.84
2018-035-0	Construct Interchange at Prince William Parkway and University Boulevard	1.0	985	-	716	2	2	0.26	548,913	0%	1.85	-	-	-	-	4,097	-	72.69
2018-056-0	Construct Interchange at Route 15 Bypass and Battlefield Parkway	1.0	956	-	1,135	1	15	0.47	469,640	0%	1.63	-	-	-	-	7,818	-	72.54
2018-028-0	Dulles West Boulevard Widening: Loudoun County Parkway to Northstar Boulevard	2.7	2,417	-	1,389	0	12	0.10	548,183	0%	2.96	-	-	-	-	6,103	-	72.51
2018-018-0	Dulles Toll Road - Town Center Parkway Underpass	1.2	677	2	637	40	-	-	261,743	0%	1.50	1.78	-	3.00	0.01	2,128	15	72.40
2018-045-2	Alexandria Duke St Transitway	2.0	959	10	562	61	-	-	337,651	23%	1.19	5.53	1	1.28	-	1,179	-	71.33
2018-054-2	Construct Interchange at Route 7 and Battlefield Parkway	1.0	819	-	739	6	-	0.05	625,539	0%	-	-	-	-	-	7,617	-	71.12
2018-012-0	Richmond Highway (Route 1)/CSX Underpass Widening	0.8	381	0	900	15	6	0.18	917,362	0%	-	-	71	0.15	0.01	439	100	70.75
2018-030-3	RT28 corridor improvements (Fitzwater Dr to Pennsylvania Ave)	2.5	1,567	-	909	1	18	0.23	432,632	0%	-	-	-	0.63	-	4,565	51	70.62
2018-033-0	Construct Interchange at Route 234 and Sudley Manor Drive	1.4	1,290	-	750	1	7	0.14	667,088	0%	1.83	-	-	-	-	2,182	-	70.19
2018-036-0	Summit School Rd Extension and Telegraph Rd Widening	2.4	1,281	0	506	14	6	0.19	713,356	0%	-	-	-	-	0.00	3,655	-	69.91
2018-09-1	Frontier Drive Extension and Intersection Improvements	1.9	880	3	416	44	8	0.19	968,644	0%	0.67	5.17	-	2.71	-	1,185	-	69.80
2018-022-0	Northstar Boulevard - Shreveport Drive to Tall Cedars Parkway	3.0	1,614	-	1,285	2	10	0.13	530,590	0%	2.16	-	-	-	0.02	6,110	34	69.54
2018-005-0	Intelligent Transportation System Improvements	4.1	2,357	12	609	2	26	0.05	316,785	0%	1.46	4.48	40	1.99	0.05	882	-	69.39
2018-015-0	Route 29 Widening Project, Phase II (Union Mill Road to Buckley's Gate Drive)	2.3	959	-	528	3	1	0.22	526,195	0%	0.60	-	-	-	0.01	2,161	62	68.92
2018-10-2	Route 28 Widening: Route 29 to Prince William County Line	5.0	1,042	-	436	3	2	-	680,961	0%	1.20	-	-	-	-	732	65	68.40
2018-039-0	Construct Interchange at Prince William Parkway and Clover Hill Road	1.4	220	-	-	-	-	-	485,670	0%	2.15	4.88	-	0.02	0.01	39	-	68.35
2018-040-1	West End Transitway: Northern Segment (Phase 1)	7.2	658	9	396	9	-	-	289,755	5%	1.30	5.47	-	1.33	-	-	17	68.16
2018-029-0	Evergreen Mills Road Intersection Realignment – Watson Road and Reservoir	0.9	92	-	14	-	-	0.06	460,059	0%	-	-	4	-	-	210	-	68.03
2018-034-0	Construct Interchange at Route 234 and Brentsville Road	1.4	172	-	57	0	2	0.09	451,674	0%	-	-	-	-	-	-	31	67.96
2018-031-1	Route 28 Corridor Feasibility Study - Environmental Impact Statement (City of Manassas to	8.0	623	1	139	2	0	-	741,338	0%	1.21	-	-	-	0.00	739	42	67.59
2018-032-1	Construct Route 28 Corridor Roadway Improvements	8.0	623	1	139	2	0	-	741,338	0%	1.21	-	-	-	0.00	739	42	67.59
2018-008-0	Soapstone Drive Extension: Extend Soapstone Drive over Route 267 (Dulles Toll Road) to	2.6	6,000	9	2,303	154	-	0.51	307,677	0%	3.71	3.10	36	2.91	-	-	-	67.47
2018-020-0	Shirley Gate Road Extension: Braddock Road to Fairfax County Parkway	1.8	261	-	151	-	-	-	848,113	0%	-	-	-	-	-	-	-	67.38
2018-048-0	Old Lee Highway Multimodal Improvements Phase 1	1.6	90	-	610	22	-	-	533,394	0%	0.94	6.00	30	-	-	1,692	-	67.11
2018-038-0	Devlin Road Widening: Wellington Road to Linton Hall Road	2.7	544	-	22	-	1	0.13	528,447	0%	-	-	-	-	-	110	-	66.93
2018-049-0	Roadway Network Northfax West	1.0	269	1	1	11	-	-	574,721	0%	0.94	3.43	48	-	-	-	-	66.91
2018-044-0	Alexandria Bike and Pedestrian Trails and Reconstruction	2.5	37	2	-	-	-	-	271,122	0%	1.04	6.45	-	-	-	-	-	66.90
2018-013-0	Seven Corners Ring Road Improvements Phase 1 A, Segment A	1.0	244	15	366	58	9	0.07	403,009	0%	0.98	4.97	81	1.20	-	1,320	-	66.66
2018-043-0	DASH Transit Service Enhancements and Expansion	16.1	1,889	3	131	10	-	0.03	340,700	0%	1.20	6.54	-	1.06	-	549	-	66.53
2018-050-0	City of Fairfax Bike Share Implementation	6.2	-	-	-	-	-	-	563,034	0%	1.21	5.14	34	0.38	-	-	-	66.44
2018-025-0	Evergreen Mills Road Widening: Loudoun County Parkway to Northstar Boulevard	0.5	627	-	1,786	0	8	0.42	555,708	0%	3.05	-	-	-	-	10,463	58	66.32
2018-037-0	Construct University Boulevard (Progress Court to Devlin Road) – Phase I	2.9	328	-	13	-	0	0.07	530,552	0%	1.19	-	-	-	-	-	-	66.10
2018-004-0	Pentagon City Multimodal Connections and Transitway Extension	0.6	964	9	1,757	-	-	0.59	549,642	0%	1.91	4.28	-	4.11	-	2,457	-	66.01
2018-014-1	Rolling Road Widening: Hunter Village Drive to Old Keene Mill Road	2.0	520	1	582	8	1	-	968,464	0%	-	-	-	-	-	1,500	198	65.99
2018-001-0	ART Operations and Maintenance Facilities	26.4	731	1	16	-	-	0.01	389,559	0%	2.11	5.72	-	0.59	-	-	-	65.96
2018-046-0	Jermantown Road Corridor Improvements Project	0.7	235	-	472	26	11	0.12	804,335	0%	-	-	-	-	-	3,464	7	65.80
2018-011-0	Braddock Road Intersection Improvements: Guinea Road to Ravensworth Road	3.8	339	-	56	1	1	0.04	729,773	0%	-	-	53	0.22	-	824	82	65.56
2018-047-0	Intersection Improvements at Eaton Place/Chain Bridge Road	1.0	169	1	-	2	-	-	529,991	0%	0.93	3.58	44	-	-	-	-	65.01
2018-041-0	Alexandria ITS Projects	2.2	695	11	348	31	4	-	320,323	0%	1.16	5.35	1	0.72	0.01	828	-	65.00
2018-055-2	Interchange Improvements at Route 15 Leesburg Bypass and Edwards Ferry Road	1.0	-	1	-	0	-	-	480,270	0%	1.65	-	-	-	-	-	-	64.73
2018-042-1	Alexandria Bus Network ITS	0.6	327	9	641	31	2	-	321,583	0%	0.87	5.58	-	0.28	0.01	2,352	-	64.62
2018-059-0	VRE Woodbridge Station and Occoquan Third Track Improvements	0.2	107	7	739	21	9	0.24	670,408	0%	0.83	5.00	-	2.00	0.03	3,913	32	64.19
2018-058-1	VRE Crystal City Station Improvements	0.1	129	5	1,405	79	30	0.19	413,746	0%	0.87	6.22	-	0.22	-	2,454	151	63.91
2018-02-1	Ballston-MU Metrorail Station West Entrance	0.3	412	25	1,677	192	30	0.20	261,217	0%	0.87	4.00	-	4.00	0.08	9,418	-	57.26
2018-027-0	Route 9 Traffic Calming	0.1	556	-	3,801	9	4	2.19	68,041	0%	-	-	16	-	0.01	-	103	53.58
2018-057-0	Mill St NE Parking Garage	0.1	55	5	489	-	1	0.19	506,577	0%	-	-	-	-	0.01	3,151	-	52.73
2018-051-0	West Falls Church & Joint Campus Revitalization District Multimodal Transportation Project	0.2	54	8	334	15	-	0.06	483,541	0%	1.26	4.00	101	4.00	0.01	847	-	52.57
2018-003-0	Crystal City Metrorail Station East Entrance and Intermodal Connections	1.0	17	-	-	21	-	-	299,362	0%	1.93	4.02	-	3.94	-	-	-	51.94
2018-052-0	North Washington Street Multimodal Transportation Project	0.1	66	4	854	58	3	0.11	324,397	0%	0.93	5.00	94	2.00	0.04	-	-	50.69
2018-062-0	Falls Church Enhanced Regional Bike Routes (W&OD)	0.1	56	11	766	31	-	0.77	399,282	0%	0.93	4.00	64	4.00	-	906	8	50.00