TRANSFORM 66 OUTSIDE the Beltway

VDOT | DRPT

Multimodal Solutions - 495 to Haymarket

Tier 2 Environmental Assessment
I-66 Transportation Technical Report

Appendix I

Arterial Traffic Operations Results

DRAFT – MAY 12, 2015

Overall Intersection Level of Service - Existing Conditions				
Figure Intersection ID	Signalization	Intersection Name	7:00 - 8:00 a.m.	
			Intersection Delay (Sec/veh)	LOS
1	Unsignalized	Old Tavern Road /Route 55	8.31	A
2	Unsignalized	Old Tavern Road /I-66 WB Ramps	1.18	A
3	Unsignalized	Old Tavern Road/I-66 EB Ramps	2.31	A
4	Unsignalized	Old Tavern Road/Harrison Road	0.36	A
5	Signalized	US 15/Heathcote Blvd	18.72	B
6	Signalized	US 15/I-66 WB Ramps	12.57	B
7	Signalized	US 15/I-66 EB Ramps	21.72	C
8	Signalized	US 15/ Route 55/Washington Street	27.53	C
9	Signalized	US 29 (Gainesville)/Route 55/Linton Hall Road	65.58	E
10	Signalized	US 29 (Gainesville)/ I-66 EB Temporary Ramp	4.07	A
11	Signalized	US 29 (Gainesville)/I-66 WB Ramps/Heathcote Blvd	21.61	C
12	Signalized	US 29 (Gainesville)/University Blvd	11.61	B
13	Signalized	Heathcote Blvd/Heritage Hunt Dr	11.54	B
14	Signalized	University Boulevard/Wellington Road	19.52	B
15	Signalized	Route 234/Balls Ford Road	60.48	E
16	Signalized	Route 234/Bullock Dr/Battleview Pkwy	16.82	B
17	Signalized	Route 234/I-66 WB Ramp/Vandor Lane	12.67	B
18	Signalized	Route 234/I-66 EB Ramps	42.15	D
19	Unsignalized	Route 234/Automotive Drive	7.25	A
20	Signalized	Route 234/Balls Ford Rd	61.33	E
21	Signalized	US 29 (Centreville)/Stone Rd	64.09	E
23	Unsignalized	US 29 (Centreville)/O'Day Dr./Parking Lot	25.15	D
24	Signalized	US 29 (Centreville)/I-66 WB Ramps	50.53	D
25	Signalized	US 29 (Centreville)/I-66 EB Ramps	121.76	F
26	Signalized	US 29 (Centreville)/Trinity Pkwy/Machen Rd	47.54	D
27	Signalized	Route 28/Ellanor C. Lawrence Park	6.87	A
28	Signalized	Route 28/Braddock Rd/Walney Rd	15.61	B
29	Signalized	Route 28 & I-66 WB Ramp	14.6	B
30	Signalized	Route 28 & Sully Senior Center/I-66 EB Ramp	22.02	C
31	Signalized	Stringfellow Road /Fair Lakes Blvd	9.5	A
32	Signalized	Stringfellow Road/Park-and-Ride	2.92	A
33	Signalized	Stringfellow Road /HOV Ramps	1.16	A
34	Unsignalized	Stringfellow Road/Westbrook Dr	1.73	A
35	Signalized	Stringfellow Road /Centreville Farms Rd	14.84	B
36	Signalized	Monument Drive/West Ox Road	28.69	C
37	Signalized	Monument Drive/Fair Lakes Parkway	24.44	C

Overall Intersection Level of Service - Existing Conditions				
Figure Intersection ID	Signalization	Intersection Name	7:00 - 8:00 a.m.	
			Intersection Delay (Sec/veh)	LOS
38	Unsignalized	Monument Drive/Fair Lakes Promenade Dr	0.66	A
39	Signalized	Monument Drive/HOV Ramps	5.88	A
40	Signalized	Monument Drive/Government Center Parkway	15.03	B
44	Signalized	US 50/Waples Mill Road	92.27	F
45	Signalized	US 50/Jermantown Road	52.19	D
46	Signalized	Route 123/Jermantown Road	73.85	E
47	Signalized	Route 123/Rose Forest Dr/White Granite Rd	56.2	E
48	Signalized	Route 123/Eaton Pl/Oak Pl	22.88	C
49	Signalized	Route 123/Fairfax Blvd (US 50/US 29)	64.18	E
50	Signalized	Country Creek Rd/I-66 WB Off-Ramp/Village Spring Lane	9.02	A
51	Signalized	Country Creek Rd/Virginia Center Blvd/Vaden Drive	16.19	B
52	Unsignalized	Vaden Dr/Metro Parking Garage (North of 66)	0.67	A
53	Unsignalized	Vaden Dr/Metro Parking Garage (South of 66)	1.66	A
54	Signalized	Vaden Dr/Saintsbury Dr	15.39	B
55	Signalized	Nutley Street /Virginia Center Blvd/Marshall Rd	35.13	D
56	Signalized	Nutley Street /Saintsbury Dr/Swanee Ln	11.47	B
57	Signalized	Nutley Street/Hermosa Drive	17.47	B
58	Signalized	Nutley Street /US 29 (Merrifield)	41.86	D
59	Signalized	Route 7/Idlywood Road	68.1	E
60	Signalized	Route 7/I-66 EB Ramps	4.97	A
61	Unsignalized	Route 7/Metrorail Lot/Dale Drive	0.36	A
62	Unsignalized	Route 7/ Mary Ellen Henderson MS Entrance/Chestnut Street	0.97	A
63	Unsignalized	Route 7/ George Mason HS Entrance/Chestnut Street	3.73	A
64	Signalized	Route 7/Haycock Road/Shreve Rd	44.45	D
65	Signalized	US 29 (Centreville)/Trinity Pkwy/Centrewood Drive	34.46	C
66	Signalized	US 29 (Centreville)/Route 28 SB On-Ramp/Newgate Shopping Center Entrance	6.1	A
67	Signalized	US 29 (Centreville)/Route 28 NB Ramp	5.06	A
68	Signalized	US 29 (Centreville)/Old Centreville Road/Braddock Road	21.58	C
69	Signalized	Fairfax County Parkway SB Ramps/Monument Drive	10.21	B
70	Signalized	Fairfax County Parkway NB Ramps/Monument Drive	26.74	C
71	Signalized	Fairfax County Parkway SB Ramps/Fair Lakes Parkway (North Intersection)	13.66	B

Overall Intersection Level of Service - Existing Conditions				
Figure Intersection ID	Signalization	Intersection Name	7:00 - 8:00 a.m.	
			Intersection Delay (Sec/veh)	LOS
72	Signalized	Fairfax County Parkway NB Ramps/Fair Lakes Parkway (North Intersection)	20.81	C
73	Signalized	Fairfax County Parkway SB Ramps/US 29 (Centreville)	18.55	B
74	Signalized	Fairfax County Parkway NB Ramps/US 29 (Centreville)	11.45	B
75	Signalized	West Ox Road/US 29 (Centreville) Off-Ramp	6.61	A
76	Signalized	US 29 (Centreville) WB Off-Ramp/Fairfax County Parkway SB On-Ramp	18.15	B
77	Signalized	US 29 (Centreville) WB On-Ramp/Fairfax County Parkway NB Off-Ramp	8.16	A
78	Signalized	West Ox Road/US 29 (Centreville) On-Ramp	19.75	B
79	Signalized	West Ox Road/US 50 SB Off-Ramp	9.04	A
81	Signalized	Route 7/Express Lanes Ramps/I-495 NB On-Ramp	48.76	D
82	Signalized	US 29 (Merrifield) /I-495 Express Lanes Ramps	16.31	B
83	Signalized	Gallows Road/I-495 SB Off-Ramp/Woodburn Road	34.83	C
84	Signalized	Gallows Road/I-495 Express Lanes Ramps	22.36	C
85	Signalized	Gallows Road/I-495 Express Lanes Ramps	83.02	F
86	Signalized	Westfields Boulevard/Park Meadow Dr/Newbrook Dr	17.26	B
87	Signalized	Westfields Boulevard/Stonecroft Boulevard	22.32	C

Overall Intersection Level of Service - Existing Conditions				
Figure Intersection ID	Signalization	Intersection Name	5:00 - 6:00 p.m.	
			Intersection Delay (Sec/veh)	LOS
1	Unsignalized	Old Tavern Road /Route 55	9.68	A
2	Unsignalized	Old Tavern Road /I-66 WB Ramps	4.37	A
3	Unsignalized	Old Tavern Road/I-66 EB Ramps	0.9	A
4	Unsignalized	Old Tavern Road/Harrison Road	0.52	A
5	Signalized	US 15/Heathcote Blvd	21.64	C
6	Signalized	US 15/I-66 WB Ramps	19.05	B
7	Signalized	US 15/I-66 EB Ramps	15.55	B
8	Signalized	US 15/ Route 55/Washington Street	56.71	E
9	Signalized	US 29 (Gainesville)/Route 55/Linton Hall Road	93.03	F
10	Signalized	US 29 (Gainesville)/ I-66 EB Temporary Ramp	5.2	A
11	Signalized	US 29 (Gainesville)/I-66 WB Ramps/Heathcote Blvd	65.36	E
12	Signalized	US 29 (Gainesville)/University Blvd	15.17	B
13	Signalized	Heathcote Blvd/Heritage Hunt Dr	23.88	C
14	Signalized	University Boulevard/Wellington Road	30.49	C
15	Signalized	Route 234/Balls Ford Road	68.05	E
16	Signalized	Route 234/Bullock Dr/Battleview Pkwy	37.18	D
17	Signalized	Route 234/I-66 WB Ramp/Vandor Lane	20.27	C
18	Signalized	Route 234/I-66 EB Ramps	6.37	A
19	Unsignalized	Route 234/Automotive Drive	1.21	A
20	Signalized	Route 234/Balls Ford Rd	74.3	E
21	Signalized	US 29 (Centreville)/Stone Rd	102.85	F
23	Unsignalized	US 29 (Centreville)/O'Day Dr./Parking Lot	3.83	A
24	Signalized	US 29 (Centreville)/I-66 WB Ramps	34.33	C
25	Signalized	US 29 (Centreville)/I-66 EB Ramps	43.29	D
26	Signalized	US 29 (Centreville)/Trinity Pkwy/Machen Rd	38.39	D
27	Signalized	Route 28/Ellanor C. Lawrence Park	117.87	F
28	Signalized	Route 28/Braddock Rd/Walney Rd	50.99	D
29	Signalized	Route 28 & I-66 WB Ramp	10.37	B
30	Signalized	Route 28 & Sully Senior Center/I-66 EB Ramp	19.91	B
31	Signalized	Stringfellow Road /Fair Lakes Blvd	119.3	F
32	Signalized	Stringfellow Road/Park-and-Ride	9.34	A
33	Signalized	Stringfellow Road /HOV Ramps	7.89	A
34	Unsignalized	Stringfellow Road/Westbrook Dr	2.17	A
35	Signalized	Stringfellow Road /Centreville Farms Rd	10.48	B
36	Signalized	Monument Drive/West Ox Road	36.12	D
37	Signalized	Monument Drive/Fair Lakes Parkway	30.44	C

Overall Intersection Level of Service - Existing Conditions				
Figure Intersection ID	Signalization	Intersection Name	5:00 - 6:00 p.m.	
			Intersection Delay (Sec/veh)	LOS
38	Unsignalized	Monument Drive/Fair Lakes Promenade Dr	3.48	A
39	Signalized	Monument Drive/HOV Ramps	7.21	A
40	Signalized	Monument Drive/Government Center Parkway	20.94	C
44	Signalized	US 50/Waples Mill Road	126.41	F
45	Signalized	US 50/Jermantown Road	153.34	F
46	Signalized	Route 123/Jermantown Road	98.14	F
47	Signalized	Route 123/Rose Forest Dr/White Granite Rd	58.22	E
48	Signalized	Route 123/Eaton Pl/Oak Pl	61.61	E
49	Signalized	Route 123/Fairfax Blvd (US 50/US 29)	110.08	F
50	Signalized	Country Creek Rd/I-66 WB Off-Ramp/Village Spring Lane	8.41	A
51	Signalized	Country Creek Rd/Virginia Center Blvd/Vaden Drive	19.15	B
52	Unsignalized	Vaden Dr/Metro Parking Garage (North of 66)	1.61	A
53	Unsignalized	Vaden Dr/Metro Parking Garage (South of 66)	5.39	A
54	Signalized	Vaden Dr/Saintsbury Dr	13.38	B
55	Signalized	Nutley Street /Virginia Center Blvd/Marshall Rd	50.08	D
56	Signalized	Nutley Street /Saintsbury Dr/Swanee Ln	11.92	B
57	Signalized	Nutley Street/Hermosa Drive	11.95	B
58	Signalized	Nutley Street /US 29 (Merrifield)	73.41	E
59	Signalized	Route 7/Idlywood Road	68.05	E
60	Signalized	Route 7/I-66 EB Ramps	11.57	B
61	Unsignalized	Route 7/Metrorail Lot/Dale Drive	0.53	A
62	Unsignalized	Route 7/ Mary Ellen Henderson MS Entrance/Chestnut Street	1.04	A
63	Unsignalized	Route 7/ George Mason HS Entrance/Chestnut Street	5.71	A
64	Signalized	Route 7/Haycock Road/Shreve Rd	47.09	D
65	Signalized	US 29 (Centreville)/Trinity Pkwy/Centrewood Drive	39.26	D
66	Signalized	US 29 (Centreville)/Route 28 SB On-Ramp/Newgate Shopping Center Entrance	59.62	E
67	Signalized	US 29 (Centreville)/Route 28 NB Ramp	10.7	B
68	Signalized	US 29 (Centreville)/Old Centreville Road/Braddock Road	68.59	E
69	Signalized	Fairfax County Parkway SB Ramps/Monument Drive	13.67	B
70	Signalized	Fairfax County Parkway NB Ramps/Monument Drive	24.47	C
71	Signalized	Fairfax County Parkway SB Ramps/Fair Lakes Parkway (North Intersection)	11.15	B

Overall Intersection Level of Service - Existing Conditions				
Figure Intersection ID	Signalization	Intersection Name	5:00 - 6:00 p.m.	
			Intersection Delay (Sec/veh)	LOS
72	Signalized	Fairfax County Parkway NB Ramps/Fair Lakes Parkway (North Intersection)	29.98	C
73	Signalized	Fairfax County Parkway SB Ramps/US 29 (Centreville)	36.25	D
74	Signalized	Fairfax County Parkway NB Ramps/US 29 (Centreville)	50.72	D
75	Signalized	West Ox Road/US 29 (Centreville) Off-Ramp	197.79	F
76	Signalized	US 29 (Centreville) WB Off-Ramp/Fairfax County Parkway SB On-Ramp	11.65	B
77	Signalized	US 29 (Centreville) WB On-Ramp/Fairfax County Parkway NB Off-Ramp	13.17	B
78	Signalized	West Ox Road/US 29 (Centreville) On-Ramp	17.54	B
79	Signalized	West Ox Road/US 50 SB Off-Ramp	17.75	B
81	Signalized	Route 7/Express Lanes Ramps/I-495 NB On-Ramp	23.92	C
82	Signalized	US 29 (Merrifield) /I-495 Express Lanes Ramps	16.86	B
83	Signalized	Gallows Road/I-495 SB Off-Ramp/Woodburn Road	195.53	F
84	Signalized	Gallows Road/I-495 Express Lanes Ramps	26.1	C
85	Signalized	Gallows Road/I-495 Express Lanes Ramps	26.02	C
86	Signalized	Westfields Boulevard/Park Meadow Dr/Newbrook Dr	31.25	C
87	Signalized	Westfields Boulevard/Stonecroft Boulevard	117.4	F

Overall Intersection Level of Service - 2040 No-Build Conditions					
Figure Intersection ID	Intersection Node #	Signalization	Intersection Name	7:00 - 8:00 a.m.	
				Intersection Delay (Sec/veh)	LOS
1	663171	Unsignalized	Old Tavern Road /Route 55	12.43	B
2	663172	Unsignalized	Old Tavern Road /I-66 WB Ramps	0.58	A
3	663173	Unsignalized	Old Tavern Road /I-66 EB Ramps	5.48	A
4	663174	Unsignalized	Old Tavern Road/Harrison Road	0.5	A
5	664051	Signalized	US 15/Heathcote Blvd	25.98	C
6	664052	Signalized	US 15/I-66 WB Ramps	20.01	C
7	664053	Signalized	US 15/I-66 EB Ramps	24.31	C
8	664054	Signalized	US 15/Route 55/Washington Street	30.88	C
9	664354	Signalized	US 29 Ramps/Linton Hall Road	63.17	E
10	664361	Signalized	Removed in No Build	-	-
11	664353	Signalized	US 29/I-66 WB Ramps/Heathcote Blvd	146.41	F
12	664352	Signalized	US 29/University Blvd	20.77	C
13	664351	Signalized	Heathcote Blvd/Heritage Hunt Dr	12.03	B
14	664355	Signalized	University Boulevard/Wellington Road	33.05	C
15	664451	Signalized	Removed in No Build	-	-
16	664751	Signalized	Route 234/Bullock Dr/Battleview Pkwy	30.61	C
17	664752	Signalized	Route 234/I-66 WB Ramp/Vandor Lane	20.99	C
18	664761	Signalized	Route 234/I-66 EB Ramps	15.27	B
19	664771	Unsignalized	Route 234/Automotive Drive	9.62	A
20	664753	Signalized	Route 234/Balls Ford Rd	231.19	F
21	665251	Signalized	US 29/Stone Rd	67.16	E
22	665272	Unsignalized	US 29)/O'Day Dr./Parking Lot	4.54	A
23	665252	Signalized	US 29/I-66 WB Ramps	13.53	B
24	665261	Signalized	US 29/I-66 EB Ramps	22.8	C
25	665253	Signalized	US 29/Trinity Pkwy/Machen Rd	62.57	E
26	665351	Signalized	Route 28/Ellanor C. Lawrence Park	33.1	C

Overall Intersection Level of Service - 2040 No-Build Conditions					
Figure Intersection ID	Intersection Node #	Signalization	Intersection Name	7:00 - 8:00 a.m.	
				Intersection Delay (Sec/veh)	LOS
27	665352	Signalized	Route 28/Braddock Rd/Walney Rd	43.81	D
28	665361	Signalized	Route 28 & I-66 WB Ramp	47.67	D
29	665362	Signalized	Route 28 & Sully Senior Center/I-66 EB Ramp	86.53	F
30	665451	Signalized	Route 645/Fair Lakes Blvd	9.76	A
31	665452	Signalized	Route 645/Park and Ride	1.64	A
32	665453	Signalized	Route 645/HOV Ramps	1.54	A
33	665471	Unsignalized	Route 645/Westbrook Dr	4.19	A
34	665454	Signalized	Route 645/Centreville Farms Rd	13.77	B
35	665651	Signalized	Monument Drive/West Ox Road	27.9	C
36	665652	Signalized	Monument Drive/Fair Lakes Parkway	31.87	C
37	665671	Unsignalized	Monument Drive/Fair Lakes Promenade Dr	1.06	A
38	665653	Signalized	Monument Drive/HOV Ramps	4.14	A
39	665654	Signalized	Monument Drive/Government Center Parkway	12.65	B
42	665751	Signalized	US 50/Waples Mill Road	90.36	F
43	665752	Signalized	US 50/Jermantown Road	81.57	F
44	666050	Signalized	Route 123/Jermantown Road	154.6	F
45	666051	Signalized	Route 123/Rose Forest Dr/White Granite Rd	26.78	C
46	666052	Signalized	Route 123/Eaton Pl/Oak Pl	105.74	F
47	666053	Signalized	Route 123/Fairfax Blvd (Route 50/US 29)	43.92	D
48	666151	Signalized	Country Creek Rd/I-66 WB Off-Ramp/Village Spring Lane	3.96	A
49	666152	Signalized	Country Creek Rd/Virginia Center Blvd/Vaden Drive	13.83	B
50	666171	Unsignalized	Vaden Dr/Metro Parking Garage (North of 66)	0.75	A
51	666172	Unsignalized	Vaden Dr/Metro Parking Garage (South of 66)	4.69	A
52	666173	Signalized	Vaden Dr/Saintsbury Dr	84.18	F
53	666251	Signalized	Route 243/Virginia Center Blvd/Marshall Rd	32.55	C
54	666252	Signalized	Route 243/Saintsbury Dr/Swanee Ln	27.97	C

Overall Intersection Level of Service - 2040 No-Build Conditions					
Figure Intersection ID	Intersection Node #	Signalization	Intersection Name	7:00 - 8:00 a.m.	
				Intersection Delay (Sec/veh)	LOS
55	666253	Signalized	Route 243/Hermosa Drive	15.45	B
56	666254	Signalized	Route 243/US 29	139.12	F
57	666651	Signalized	Route 7/Idlewood Road	132.89	F
58	666661	Signalized	Route 7/I-66 EB Ramps	16.67	B
59	666671	Unsignalized	Route 7/Metrorail Lot/Dale Drive	4.68	A
60	666672	Unsignalized	Route 7/ Mary Ellen Henderson MS Entrance/Chestnut Street	7.91	A
61	666673	Unsignalized	Route 7/ George Mason HS Entrance/Chestnut Street	12.88	B
62	666652	Signalized	Route 7/Haycock Road/Shreve Rd	61.87	E
63	288051	Signalized	US 29/Trinity Pkwy/Centrewood Drive	109.58	F
64	288052	Signalized	US 29/Route 28 SB On-Ramp/Newgate Shopping Center Entrance	30.57	C
65	288053	Signalized	US 29/Route 28 NB Ramp	33.6	C
66	288054	Signalized	US 29/Old Centreville Road/Braddock Road	67.83	E
67	2868152	Signalized	Fairfax County Parkway SB Ramps/Monument Drive	8.71	A
68	2868151	Signalized	Fairfax County Parkway NB Ramps/Monument Drive	26.78	C
69	2868154	Signalized	Fairfax County Parkway SB Ramps/Fair Lakes Parkway (North Intersection)	8.93	A
70	2868153	Signalized	Fairfax County Parkway NB Ramps/Fair Lakes Parkway (North Intersection)	19.17	B
71	2868252	Signalized	Fairfax County Parkway SB Ramps/Lee Highway	#N/A	#N/A
72	2868251	Signalized	Fairfax County Parkway NB Ramps/Lee Highway	15.66	B
73	2868261	Signalized	West Ox Road/US 29 Off-Ramp	6.57	A
74	2868264	Signalized	US 29 WB Off-Ramp/Fairfax County Parkway SB On-Ramp	25.13	C
75	2868263	Signalized	US 29 WB On-Ramp/Fairfax County Parkway NB Off-Ramp	9.12	A
76	2868262	Signalized	West Ox Road/US 29 On-Ramp	19.69	B
77	508361	Signalized	West Ox Road/US 50 SB Off-Ramp	11.9	B

Overall Intersection Level of Service - 2040 No-Build Conditions					
Figure Intersection ID	Intersection Node #	Signalization	Intersection Name	7:00 - 8:00 a.m.	
				Intersection Delay (Sec/veh)	LOS
78	4958451	Signalized	Route 7/Express Lanes Ramps/I-495 NB On-Ramp	23.32	C
79	4958551	Signalized	US 29/I-495 Express Lanes Ramps	43.52	D
80	4958951	Signalized	Gallows Road/I-495 SB Off-Ramp/Woodburn Road	31	C
81	4958952	Signalized	Gallows Road/I-495 Express Lanes Ramps	6.19	A
82	4958953	Signalized	Gallows Road/I-495 Express Lanes Ramps	119.26	F
83	289051	Signalized	Westfields Boulevard/Park Meadow Dr/Newbrook Dr	30.25	C
84	289052	Signalized	Westfields Boulevard/Stonecroft Boulevard	34.65	C
85	664454	Signalized	US 29/Bi-County Parkway Ramps	53.37	D
86	664453	Signalized	Route 234 NB Ramps/Balls Ford Road	27.49	C
87	664452	Signalized	Balls Ford Road/Route 234 Bypass SB Ramps	48.16	D
88	666054	Signalized	Route 123/Orchard Street	3.08	A

Overall Intersection Level of Service - 2040 No Build Conditions					
Figure Intersection ID	Intersection Node #	Signalization	Intersection Name	5:00 - 6:00 p.m.	
				Intersection Delay (Sec/veh)	LOS
1	663171	Unsignalized	Old Tavern Road /Route 55	27.87	D
2	663172	Unsignalized	Old Tavern Road /I-66 WB Ramps	3.8	A
3	663173	Unsignalized	Old Tavern Road /I-66 EB Ramps	0.62	A
4	663174	Unsignalized	Old Tavern Road/Harrison Road	0.52	A
5	664051	Signalized	US 15/Heathcote Blvd	30.89	C
6	664052	Signalized	US 15/I-66 WB Ramps	22	C
7	664053	Signalized	US 15/I-66 EB Ramps	27.64	C
8	664054	Signalized	US 15/Route 55/Washington Street	31.29	C
9	664354	Signalized	US 29 Ramps/Linton Hall Road	22.16	C
10	664361	Signalized	Removed in No Build	-	-
11	664353	Signalized	US 29/I-66 WB Ramps/Heathcote Blvd	50.01	D
12	664352	Signalized	US 29/University Blvd	52.47	D
13	664351	Signalized	Heathcote Blvd/Heritage Hunt Dr	27.38	C
14	664355	Signalized	University Boulevard/Wellington Road	62.03	E
15	664451	Signalized	Removed in No Build	-	-
16	664751	Signalized	Route 234/Bullock Dr/Battleview Pkwy	69.05	E
17	664752	Signalized	Route 234/I-66 WB Ramp/Vandor Lane	60.42	E
18	664761	Signalized	Route 234/I-66 EB Ramps	53.13	D
19	664771	Unsignalized	Route 234/Automotive Drive	4.5	A
20	664753	Signalized	Route 234/Balls Ford Rd	188.88	F
21	665251	Signalized	US 29/Stone Rd	140.81	F
22	665272	Unsignalized	US 29)/O'Day Dr./Parking Lot	49.17	E
23	665252	Signalized	US 29/I-66 WB Ramps	49.09	D
24	665261	Signalized	US 29/I-66 EB Ramps	48.75	D
25	665253	Signalized	US 29/Trinity Pkwy/Machen Rd	42.03	D
26	665351	Signalized	Route 28/Ellanor C. Lawrence Park	201.4	F
27	665352	Signalized	Route 28/Braddock Rd/Walney Rd	71.71	E
28	665361	Signalized	Route 28 & I-66 WB Ramp	94.37	F

Overall Intersection Level of Service - 2040 No Build Conditions					
Figure Intersection ID	Intersection Node #	Signalization	Intersection Name	5:00 - 6:00 p.m.	
				Intersection Delay (Sec/veh)	LOS
29	665362	Signalized	Route 28 & Sully Senior Center/I-66 EB Ramp	107.69	F
30	665451	Signalized	Route 645/Fair Lakes Blvd	88.62	F
31	665452	Signalized	Route 645/Park and Ride	3.8	A
32	665453	Signalized	Route 645/HOV Ramps	14.13	B
33	665471	Unsignalized	Route 645/Westbrook Dr	11.99	B
34	665454	Signalized	Route 645/Centreville Farms Rd	23.04	C
35	665651	Signalized	Monument Drive/West Ox Road	33.31	C
36	665652	Signalized	Monument Drive/Fair Lakes Parkway	35.93	D
37	665671	Unsignalized	Monument Drive/Fair Lakes Promenade Dr	2.91	A
38	665653	Signalized	Monument Drive/HOV Ramps	6.35	A
39	665654	Signalized	Monument Drive/Government Center Parkway	21.89	C
42	665751	Signalized	US 50/Waples Mill Road	230.98	F
43	665752	Signalized	US 50/Jermantown Road	128.2	F
44	666050	Signalized	Route 123/Jermantown Road	180.87	F
45	666051	Signalized	Route 123/Rose Forest Dr/White Granite Rd	176.88	F
46	666052	Signalized	Route 123/Eaton Pl/Oak Pl	102.19	F
47	666053	Signalized	Route 123/Fairfax Blvd (Route 50/US 29)	101.35	F
48	666151	Signalized	Country Creek Rd/I-66 WB Off-Ramp/Village Spring Lane	5.19	A
49	666152	Signalized	Country Creek Rd/Virginia Center Blvd/Vaden Drive	23.38	C
50	666171	Unsignalized	Vaden Dr/Metro Parking Garage (North of 66)	4.3	A
51	666172	Unsignalized	Vaden Dr/Metro Parking Garage (South of 66)	1.98	A
52	666173	Signalized	Vaden Dr/Saintsbury Dr	20.98	C
53	666251	Signalized	Route 243/Virginia Center Blvd/Marshall Rd	46.64	D
54	666252	Signalized	Route 243/Saintsbury Dr/Swanee Ln	21.41	C
55	666253	Signalized	Route 243/Hermosa Drive	13.77	B
56	666254	Signalized	Route 243/US 29	112.34	F
57	666651	Signalized	Route 7/Idlewood Road	241.2	F
58	666661	Signalized	Route 7/I-66 EB Ramps	152.96	F
59	666671	Unsignalized	Route 7/Metrorail Lot/Dale Drive	11.25	B
60	666672	Unsignalized	Route 7/ Mary Ellen Henderson MS Entrance/Chestnut Street	18.59	C

Overall Intersection Level of Service - 2040 No Build Conditions					
Figure Intersection ID	Intersection Node #	Signalization	Intersection Name	5:00 - 6:00 p.m.	
				Intersection Delay (Sec/veh)	LOS
61	666673	Unsignalized	Route 7/ George Mason HS Entrance/Chestnut Street	16.85	C
62	666652	Signalized	Route 7/Haycock Road/Shreve Rd	87.63	F
63	288051	Signalized	US 29/Trinity Pkwy/Centrewood Drive	46.07	D
64	288052	Signalized	US 29/Route 28 SB On-Ramp/Newgate Shopping Center Entrance	29.87	C
65	288053	Signalized	US 29/Route 28 NB Ramp	24.84	C
66	288054	Signalized	US 29/Old Centreville Road/Braddock Road	117.53	F
67	2868152	Signalized	Fairfax County Parkway SB Ramps/Monument Drive	59.25	E
68	2868151	Signalized	Fairfax County Parkway NB Ramps/Monument Drive	22.53	C
69	2868154	Signalized	Fairfax County Parkway SB Ramps/Fair Lakes Parkway (North Intersection)	13.17	B
70	2868153	Signalized	Fairfax County Parkway NB Ramps/Fair Lakes Parkway (North Intersection)	34.45	C
71	2868252	Signalized	Fairfax County Parkway SB Ramps/Lee Highway	29.61	C
72	2868251	Signalized	Fairfax County Parkway NB Ramps/Lee Highway	46.28	D
73	2868261	Signalized	West Ox Road/US 29 Off-Ramp	336.89	F
74	2868264	Signalized	US 29 WB Off-Ramp/Fairfax County Parkway SB On-Ramp	9.78	A
75	2868263	Signalized	US 29 WB On-Ramp/Fairfax County Parkway NB Off-Ramp	49.74	D
76	2868262	Signalized	West Ox Road/US 29 On-Ramp	70.1	E
77	508361	Signalized	West Ox Road/US 50 SB Off-Ramp	152.81	F
78	4958451	Signalized	Route 7/Express Lanes Ramps/I-495 NB On-Ramp	22.2	C
79	4958551	Signalized	US 29/I-495 Express Lanes Ramps	40.81	D
80	4958951	Signalized	Gallows Road/I-495 SB Off-Ramp/Woodburn Road	253.07	F
81	4958952	Signalized	Gallows Road/I-495 Express Lanes Ramps	35.64	D
82	4958953	Signalized	Gallows Road/I-495 Express Lanes Ramps	47.28	D
83	289051	Signalized	Westfields Boulevard/Park Meadow Dr/Newbrook Dr	173.64	F

Overall Intersection Level of Service - 2040 No Build Conditions					
Figure Intersection ID	Intersection Node #	Signalization	Intersection Name	5:00 - 6:00 p.m.	
				Intersection Delay (Sec/veh)	LOS
84	289052	Signalized	Westfields Boulevard/Stonecroft Boulevard	178.6	F
85	664454	Signalized	US 29/Bi-County Parkway Ramps	19.7	B
86	664453	Signalized	Route 234 NB Ramps/Balls Ford Road	67.49	E
87	664452	Signalized	Balls Ford Road/Route 234 Bypass SB Ramps	35.93	D
88	666054	Signalized	Route 123/Orchard Street	39.18	D

Overall Intersection Level of Service - 2040 Build 2A					
Figure Intersection ID	Intersection Node #	Signalization	Intersection Name	7:00 - 8:00 a.m.	
				Intersection Delay (Sec/veh)	LOS
1	663171	Unsignalized	Old Tavern Road /Route 55	11.43	B
2	663172	Unsignalized	Old Tavern Road /I-66 WB Ramps	0.79	A
3	663173	Unsignalized	Old Tavern Road /I-66 EB Ramps	3.79	A
4	663174	Unsignalized	Old Tavern Road/Harrison Road	0.38	A
5	664051	Signalized	US 15/Heathcote Blvd	25.08	C
6	664052	Signalized	US 15/I-66 WB Ramps	25.84	C
7	664053	Signalized	US 15/I-66 EB Ramps	26.51	C
8	664054	Signalized	US 15)/Route 55/Washington Street	97.95	F
9	664354	Signalized	US 29 Ramps/Linton Hall Road	21.14	C
10	664361	Signalized	Removed in No Build	-	-
11	664353	Signalized	US 29/I-66 WB Ramps/Heathcote Blvd	34.15	C
12	664352	Signalized	US 29/University Blvd	35.59	D
13	664351	Signalized	Heathcote Blvd/Heritage Hunt Dr	14.18	B
14	664355	Signalized	University Boulevard/Wellington Road	81.36	F
15	664451	Signalized	Removed in No Build	-	-
16	664751	Signalized	Route 234/Bullock Dr/Battleview Pkwy	28.8	C
17	664752	Signalized	Route 234/I-66 WB Ramp/Vandor Lane	21.37	C
18	664761	Signalized	Route 234/I-66 EB Ramps	10.57	B
19	664771	Unsignalized	Route 234/Automotive Drive	9.79	A
20	664753	Signalized	Route 234/Balls Ford Rd	115.45	F
21	665251	Signalized	US 29/Stone Rd	56.18	E
22	665272	Unsignalized	US 29/O'Day Dr./Parking Lot	2.86	A
23	665252	Signalized	US 29/I-66 WB Ramps	3.2	A
24	665261	Signalized	US 29/I-66 EB Ramps	20.15	C
25	665253	Signalized	US 29/Trinity Pkwy/Machen Rd	40.68	D
26	665351	Signalized	Removed in Build 2A	-	-
27	665352	Signalized	Route 28/Braddock Rd/Walney Rd	10.33	B
28	665361	Signalized	Removed in Build 2A	-	-
29	665362	Signalized	Removed in Build 2A	-	-
30	665451	Signalized	Route 645/Fair Lakes Blvd	7.92	A
31	665452	Signalized	Route 645/Park and Ride	1.41	A
32	665453	Signalized	Route 645/HOV Ramps	2.68	A
33	665471	Unsignalized	Route 645/Westbrook Dr	2.7	A

Overall Intersection Level of Service - 2040 Build 2A					
Figure Intersection ID	Intersection Node #	Signalization	Intersection Name	7:00 - 8:00 a.m.	
				Intersection Delay (Sec/veh)	LOS
34	665454	Signalized	Route 645/Centreville Farms Rd	8.94	A
35	665651	Signalized	Monument Drive/West Ox Road	38.39	D
36	665652	Signalized	Monument Drive/Fair Lakes Parkway	27.16	C
37	665671	Unsignalized	Monument Drive/Fair Lakes Promenade Dr	14.79	B
38	665653	Signalized	Monument Drive/HOV Ramps	35.26	D
39	665654	Signalized	Monument Drive/Government Center Parkway	22.82	C
40	665771	Unsignalized	US 50/Fair Lakes Mall Entrance (West)	3.66	A
41	665772	Unsignalized	US 50/Fair Lakes Mall Entrance (East)	0.51	A
42	665751	Signalized	US 50/Waples Mill Road	76.59	E
43	665752	Signalized	US 50/Jermantown Road	42.28	D
44	666050	Signalized	Route 123/Jermantown Road	133.74	F
45	666051	Signalized	Route 123/Rose Forest Dr/White Granite Rd	28.65	C
46	666052	Signalized	Route 123/Eaton Pl/Oak Pl	21.83	C
47	666053	Signalized	Route 123/Fairfax Blvd (Route 50/US 29)	62.41	E
48	666151	Signalized	Country Creek Rd/I-66 WB Off-Ramp/Village Spring Lane	6.5	A
49	666152	Signalized	Country Creek Rd/Virginia Center Blvd/Vaden Drive	20.38	C
50	666171	Unsignalized	Vaden Dr/Metro Parking Garage (North of 66)	6.12	A
51	666172	Unsignalized	Vaden Dr/Metro Parking Garage (South of 66)	3.98	A
52	666173	Signalized	Vaden Dr/Saintsbury Dr	54.49	D
53	666251	Signalized	Route 243/Virginia Center Blvd/Marshall Rd	63.71	E
54	666252	Signalized	Route 243/Saintsbury Dr/Swanee Ln	50.51	D
55	666253	Signalized	Route 243/Hermosa Drive	15.34	B
56	666254	Signalized	Route 243/US 29)	72.56	E
57	666651	Signalized	Route 7/Idlewood Road	98.27	F
58	666661	Signalized	Route 7/I-66 EB Ramps	2.13	A
59	666671	Unsignalized	Route 7/Metrorail Lot/Dale Drive	0.49	A
60	666672	Unsignalized	Route 7/ Mary Ellen Henderson MS Entrance/Chestnut Street	2.02	A
61	666673	Unsignalized	Route 7/ George Mason HS Entrance/Chestnut Street	5.78	A

Overall Intersection Level of Service - 2040 Build 2A					
Figure Intersection ID	Intersection Node #	Signalization	Intersection Name	7:00 - 8:00 a.m.	
				Intersection Delay (Sec/veh)	LOS
62	666652	Signalized	Route 7/Haycock Road/Shreve Rd	56.35	E
63	288051	Signalized	US 29)/Trinity Pkwy/Centrewood Drive	50.75	D
64	288052	Signalized	US 29/Route 28 SB On-Ramp/Newgate Shopping Center Entrance	8.84	A
65	288053	Signalized	US 29/Route 28 NB Ramp	7.5	A
66	288054	Signalized	US 29/Old Centreville Road/Braddock Road	23.23	C
67	2868152	Signalized	Fairfax County Parkway SB Ramps/Monument Drive	9.98	A
68	2868151	Signalized	Fairfax County Parkway NB Ramps/Monument Drive	24.12	C
69	2868154	Signalized	Fairfax County Parkway SB Ramps/Fair Lakes Parkway (North Intersection)	15.35	B
70	2868153	Signalized	Fairfax County Parkway NB Ramps/Fair Lakes Parkway (North Intersection)	22.98	C
71	2868252	Signalized	Fairfax County Parkway SB Ramps/US 29	12.29	B
72	2868251	Signalized	Fairfax County Parkway NB Ramps/US 29	15.05	B
73	2868261	Signalized	West Ox Road/US 29 Off-Ramp	7.72	A
74	2868264	Signalized	US 29 WB Off-Ramp/Fairfax County Parkway SB On-Ramp	20.84	C
75	2868263	Signalized	US 29 WB On-Ramp/Fairfax County Parkway NB Off-Ramp	11.23	B
76	2868262	Signalized	West Ox Road/US 29 On-Ramp	19.51	B
77	508361	Signalized	West Ox Road/US 50 SB Off-Ramp	10.92	B
78	4958451	Signalized	Route 7/Express Lanes Ramps/I-495 NB On-Ramp	35.42	D
79	4958551	Signalized	US 29/I-495 Express Lanes Ramps	41.71	D
80	4958951	Signalized	Gallows Road/I-495 SB Off-Ramp/Woodburn Road	39.38	D
81	4958952	Signalized	Gallows Road/I-495 Express Lanes Ramps	9.41	A
82	4958953	Signalized	Gallows Road/I-495 Express Lanes Ramps	211.46	F
83	289051	Signalized	Westfields Boulevard/Park Meadow Dr/Newbrook Dr	21.84	C
84	289052	Signalized	Westfields Boulevard/Stonecroft Boulevard	38.1	D

Overall Intersection Level of Service - 2040 Build 2A					
Figure Intersection ID	Intersection Node #	Signalization	Intersection Name	7:00 - 8:00 a.m.	
				Intersection Delay (Sec/veh)	LOS
85	664454	Signalized	US 29/Bi-County Parkway Ramps	23.43	C
86	664453	Signalized	Route 234 NB Ramps/Balls Ford Road	25.59	C
87	664452	Signalized	Balls Ford Road/Route 234 Bypass SB Ramps	30.67	C
88	666054	Signalized	Route 123/Orchard Street	7.36	A
89	664356	Signalized	University Blvd/I-66 HOT lanes Ramps	8.76	A
90	664357	Signalized	University Blvd/Park & Ride	37.31	D
91	664754	Signalized	Balls Ford Rd/ Ashton Ave	25.52	C
92	664755	Signalized	Balls Ford Rd & I-66 Express Lanes	55.42	E
93	664772	Signalized	I-66 Express Lane & Bus Loop	7.26	A
94	665353	Signalized	Braddock Road/I-66 Ramps	14.89	B
95	666061	Signalized	Route 123/ I-66 Ramps	20.13	C
96	666153	Signalized	Vaden Dr/ I-66 Express Lane Ramps	20.55	C

Overall Intersection Level of Service - 2040 Build 2A					
Figure Intersection ID	Intersection Node #	Signalization	Intersection Name	5:00 - 6:00 p.m.	
				Intersection Delay (Sec/veh)	LOS
1	663171	Unsignalized	Old Tavern Road /Route 55	27.54	D
2	663172	Unsignalized	Old Tavern Road /I-66 WB Ramps	3.65	A
3	663173	Unsignalized	Old Tavern Road /I-66 EB Ramps	0.65	A
4	663174	Unsignalized	Old Tavern Road/Harrison Road	0.6	A
5	664051	Signalized	US 15/Heathcote Blvd	31.14	C
6	664052	Signalized	US 15/I-66 WB Ramps	23.96	C
7	664053	Signalized	US 15/I-66 EB Ramps	27.52	C
8	664054	Signalized	US 15)/Route 55/Washington Street	47.01	D
9	664354	Signalized	US 29 Ramps/Linton Hall Road	20.84	C
10	664361	Signalized	Removed in No Build	-	-
11	664353	Signalized	US 29/I-66 WB Ramps/Heathcote Blvd	40.86	D
12	664352	Signalized	US 29/University Blvd	85.32	F
13	664351	Signalized	Heathcote Blvd/Heritage Hunt Dr	28.34	C
14	664355	Signalized	University Boulevard/Wellington Road	44.88	D
15	664451	Signalized	Removed in No Build	-	-
16	664751	Signalized	Route 234/Bullock Dr/Battleview Pkwy	65.63	E
17	664752	Signalized	Route 234/I-66 WB Ramp/Vandor Lane	24.4	C
18	664761	Signalized	Route 234/I-66 EB Ramps	13.6	B
19	664771	Unsignalized	Route 234/Automotive Drive	1.06	A
20	664753	Signalized	Route 234/Balls Ford Rd	207.17	F
21	665251	Signalized	US 29/Stone Rd	129.85	F
22	665272	Unsignalized	US 29/O'Day Dr./Parking Lot	49.48	E
23	665252	Signalized	US 29/I-66 WB Ramps	55.28	E
24	665261	Signalized	US 29/I-66 EB Ramps	12.97	B
25	665253	Signalized	US 29/Trinity Pkwy/Machen Rd	37.75	D
26	665351	Signalized	Removed in Build 2A	-	-
27	665352	Signalized	Route 28/Braddock Rd/Walney Rd	16.62	B
28	665361	Signalized	Removed in Build 2A	-	-
29	665362	Signalized	Removed in Build 2A	-	-
30	665451	Signalized	Route 645/Fair Lakes Blvd	95.86	F
31	665452	Signalized	Route 645/Park and Ride	2.37	A
32	665453	Signalized	Route 645/HOV Ramps	16.95	B
33	665471	Unsignalized	Route 645/Westbrook Dr	3.13	A

Overall Intersection Level of Service - 2040 Build 2A					
Figure Intersection ID	Intersection Node #	Signalization	Intersection Name	5:00 - 6:00 p.m.	
				Intersection Delay (Sec/veh)	LOS
34	665454	Signalized	Route 645/Centreville Farms Rd	12.03	B
35	665651	Signalized	Monument Drive/West Ox Road	33.03	C
36	665652	Signalized	Monument Drive/Fair Lakes Parkway	63.36	E
37	665671	Unsignalized	Monument Drive/Fair Lakes Promenade Dr	21.49	C
38	665653	Signalized	Monument Drive/HOV Ramps	49.83	D
39	665654	Signalized	Monument Drive/Government Center Parkway	26.14	C
40	665771	Unsignalized	US 50/Fair Lakes Mall Entrance (West)	8.34	A
41	665772	Unsignalized	US 50/Fair Lakes Mall Entrance (East)	2.05	A
42	665751	Signalized	US 50/Waples Mill Road	203.2	F
43	665752	Signalized	US 50/Jermantown Road	122.83	F
44	666050	Signalized	Route 123/Jermantown Road	99.64	F
45	666051	Signalized	Route 123/Rose Forest Dr/White Granite Rd	38.07	D
46	666052	Signalized	Route 123/Eaton Pl/Oak Pl	317.11	F
47	666053	Signalized	Route 123/Fairfax Blvd (Route 50/US 29)	101.57	F
48	666151	Signalized	Country Creek Rd/I-66 WB Off-Ramp/Village Spring Lane	5.22	A
49	666152	Signalized	Country Creek Rd/Virginia Center Blvd/Vaden Drive	38.31	D
50	666171	Unsignalized	Vaden Dr/Metro Parking Garage (North of 66)	14.54	B
51	666172	Unsignalized	Vaden Dr/Metro Parking Garage (South of 66)	19.41	C
52	666173	Signalized	Vaden Dr/Saintsbury Dr	28.68	C
53	666251	Signalized	Route 243/Virginia Center Blvd/Marshall Rd	62.96	E
54	666252	Signalized	Route 243/Saintsbury Dr/Swanee Ln	47.55	D
55	666253	Signalized	Route 243/Hermosa Drive	23.78	C
56	666254	Signalized	Route 243/US 29)	119.27	F
57	666651	Signalized	Route 7/Idlewood Road	166.74	F
58	666661	Signalized	Route 7/I-66 EB Ramps	29.58	C
59	666671	Unsignalized	Route 7/Metrorail Lot/Dale Drive	3.82	A
60	666672	Unsignalized	Route 7/ Mary Ellen Henderson MS Entrance/Chestnut Street	5.46	A
61	666673	Unsignalized	Route 7/ George Mason HS Entrance/Chestnut Street	9.39	A

Overall Intersection Level of Service - 2040 Build 2A					
Figure Intersection ID	Intersection Node #	Signalization	Intersection Name	5:00 - 6:00 p.m.	
				Intersection Delay (Sec/veh)	LOS
62	666652	Signalized	Route 7/Haycock Road/Shreve Rd	73.72	E
63	288051	Signalized	US 29)/Trinity Pkwy/Centrewood Drive	37.18	D
64	288052	Signalized	US 29/Route 28 SB On-Ramp/Newgate Shopping Center Entrance	19.47	B
65	288053	Signalized	US 29/Route 28 NB Ramp	5.06	A
66	288054	Signalized	US 29/Old Centreville Road/Braddock Road	71.81	E
67	2868152	Signalized	Fairfax County Parkway SB Ramps/Monument Drive	25.42	C
68	2868151	Signalized	Fairfax County Parkway NB Ramps/Monument Drive	24.14	C
69	2868154	Signalized	Fairfax County Parkway SB Ramps/Fair Lakes Parkway (North Intersection)	11.19	B
70	2868153	Signalized	Fairfax County Parkway NB Ramps/Fair Lakes Parkway (North Intersection)	41.78	D
71	2868252	Signalized	Fairfax County Parkway SB Ramps/US 29	23.33	C
72	2868251	Signalized	Fairfax County Parkway NB Ramps/US 29	16.84	B
73	2868261	Signalized	West Ox Road/US 29 Off-Ramp	9.42	A
74	2868264	Signalized	US 29 WB Off-Ramp/Fairfax County Parkway SB On-Ramp	11.41	B
75	2868263	Signalized	US 29 WB On-Ramp/Fairfax County Parkway NB Off-Ramp	20.87	C
76	2868262	Signalized	West Ox Road/US 29 On-Ramp	30.6	C
77	508361	Signalized	West Ox Road/US 50 SB Off-Ramp	14.87	B
78	4958451	Signalized	Route 7/Express Lanes Ramps/I-495 NB On-Ramp	28.09	C
79	4958551	Signalized	US 29/I-495 Express Lanes Ramps	39.04	D
80	4958951	Signalized	Gallows Road/I-495 SB Off-Ramp/Woodburn Road	236.72	F
81	4958952	Signalized	Gallows Road/I-495 Express Lanes Ramps	73.1	E
82	4958953	Signalized	Gallows Road/I-495 Express Lanes Ramps	55.59	E
83	289051	Signalized	Westfields Boulevard/Park Meadow Dr/Newbrook Dr	137.64	F
84	289052	Signalized	Westfields Boulevard/Stonecroft Boulevard	127.46	F

Overall Intersection Level of Service - 2040 Build 2A					
Figure Intersection ID	Intersection Node #	Signalization	Intersection Name	5:00 - 6:00 p.m.	
				Intersection Delay (Sec/veh)	LOS
85	664454	Signalized	US 29/Bi-County Parkway Ramps	21.02	C
86	664453	Signalized	Route 234 NB Ramps/Balls Ford Road	70.88	E
87	664452	Signalized	Balls Ford Road/Route 234 Bypass SB Ramps	48.09	D
88	666054	Signalized	Route 123/Orchard Street	56.61	E
89	664356	Signalized	University Blvd/I-66 HOT lanes Ramps	14.2	B
90	664357	Signalized	University Blvd/Park & Ride	52.4	D
91	664754	Signalized	Balls Ford Rd/ Ashton Ave	30.78	C
92	664755	Signalized	Balls Ford Rd & I-66 Express Lanes	31.7	C
93	664772	Signalized	I-66 Express Lane & Bus Loop	17.74	B
94	665353	Signalized	Braddock Road/I-66 Ramps	53.61	D
95	666061	Signalized	Route 123/ I-66 Ramps	49.89	D
96	666153	Signalized	Vaden Dr/ I-66 Express Lane Ramps	23.43	C

Overall Intersection Level of Service - 2040 Build 2B					
Figure Intersection ID	Intersection Node #	Signalization	Intersection Name	7:00 - 8:00 a.m.	
				Intersection Delay (Sec/veh)	LOS
1	663171	Unsignalized	Old Tavern Road/Route 55	11.63	B
2	663172	Unsignalized	Old Tavern Road/I-66 WB Ramps	0.75	A
3	663173	Unsignalized	Old Tavern Road /I-66 EB Ramps	3.91	A
4	663174	Unsignalized	Old Tavern Road/Harrison Road	0.22	A
5	664051	Signalized	US Route 15/Heathcote Blvd	28.36	C
6	664052	Signalized	US Route 15/I-66 WB Ramps	21.03	C
7	664053	Signalized	US Route 15/I-66 EB Ramps	28.05	C
8	664054	Signalized	US 15/Route 55/Washington Street	40.74	D
9	664354	Signalized	US 29 Ramps/Linton Hall Road	20.56	C
10	664361	Signalized	Removed in No Build	-	-
11	664353	Signalized	US 29/I-66 WB Ramps/Heathcote Blvd	26.85	C
12	664352	Signalized	US 29/University Blvd	36.13	D
13	664351	Signalized	Heathcote Blvd/Heritage Hunt Dr	13.76	B
14	664355	Signalized	University Boulevard/Wellington Road	74.25	E
15	664451	Signalized	Removed in No Build	-	-
16	664751	Signalized	Route 234/Bullock Dr/Battleview Pkwy	30.82	C
17	664752	Signalized	Route 234/I-66 WB Ramp/Vandor Lane	21.21	C
18	664761	Signalized	Route 234/I-66 EB Ramps	8.41	A
19	664771	Unsignalized	Route 234/Automotive Drive	6.67	A
20	664753	Signalized	Route 234/Balls Ford Rd	60.73	E
21	665251	Signalized	US 29/Stone Rd	60.45	E
22	665272	Unsignalized	US 29/O'Day Dr./Parking Lot	5.52	A
23	665252	Signalized	US 29/I-66 WB Ramps	63.74	E
24	665261	Signalized	US 29/I-66 EB Ramps	82.4	F
25	665253	Signalized	US 29/Trinity Pkwy/Machen Rd	42.15	D
26	665351	Signalized	Removed in Build 2A	-	-
27	665352	Signalized	Route 28/Braddock Rd/Walney Rd	8.41	A
28	665361	Signalized	Removed in Build 2A	-	-
29	665362	Signalized	Removed in Build 2A	-	-
30	665451	Signalized	Route 645/Fair Lakes Blvd	8.41	A

Overall Intersection Level of Service - 2040 Build 2B					
Figure Intersection ID	Intersection Node #	Signalization	Intersection Name	7:00 - 8:00 a.m.	
				Intersection Delay (Sec/veh)	LOS
31	665452	Signalized	Route 645/Park and Ride	1.5	A
32	665453	Signalized	Removed in Build 2B	-	-
33	665471	Unsignalized	Route 645/Westbrook Dr	2.5	A
34	665454	Signalized	Route 645/Centreville Farms Rd	15.45	B
35	665651	Signalized	Monument Drive/West Ox Road	39.09	D
36	665652	Signalized	Monument Drive/Fair Lakes Parkway	24.18	C
37	665671	Unsignalized	Monument Drive/Fair Lakes Promenade Dr	2.31	A
38	665653	Signalized	Monument Drive/HOV Ramps	36.89	D
39	665654	Signalized	Monument Drive/Government Center Parkway	20.51	C
42	665751	Signalized	US 50/Waples Mill Road	103.27	F
43	665752	Signalized	US 50/Jermantown Road	45.33	D
44	666050	Signalized	Route 123/Jermantown Road	136.77	F
45	666051	Signalized	Route 123/Rose Forest Dr/White Granite Rd	59.03	E
46	666052	Signalized	Route 123/Eaton Pl/Oak Pl	27.39	C
47	666053	Signalized	Route 123/Fairfax Blvd (Route 50/US 29)	74.82	E
48	666151	Signalized	Country Creek Rd/I-66 WB Off-Ramp/Village Spring Lane	5.59	A
49	666152	Signalized	Country Creek Rd/Virginia Center Blvd/Vaden Drive	16.16	B
50	666171	Unsignalized	Vaden Dr/Metro Parking Garage (North of 66)	2.19	A
51	666172	Unsignalized	Vaden Dr/Metro Parking Garage (South of 66)	5.41	A
52	666173	Signalized	Vaden Dr/Saintsbury Dr	61.13	E
53	666251	Signalized	Route 243/Virginia Center Blvd/Marshall Rd	31.17	C
54	666252	Signalized	Route 243/Saintsbury Dr/Swanee Ln	16.82	B
55	666253	Signalized	Route 243/Hermosa Drive	13.56	B
56	666254	Signalized	Route 243/US 29	56.39	E
57	666651	Signalized	Route 7/Idlewood Road	128.04	F
58	666661	Signalized	Route 7/I-66 EB Ramps	12.57	B
59	666671	Unsignalized	Route 7/Metrorail Lot/Dale Drive	3.36	A
60	666672	Unsignalized	Route 7/Mary Ellen Henderson MS Entrance/Chestnut Street	6.55	A
61	666673	Unsignalized	Route 7/George Mason HS Entrance/Chestnut Street	11.25	B

Overall Intersection Level of Service - 2040 Build 2B					
Figure Intersection ID	Intersection Node #	Signalization	Intersection Name	7:00 - 8:00 a.m.	
				Intersection Delay (Sec/veh)	LOS
62	666652	Signalized	Route 7/Haycock Road/Shreve Rd	58.69	E
63	288051	Signalized	US 29/Trinity Pkwy/Centrewood Drive	26.36	C
64	288052	Signalized	US 29/Route 28 SB On-Ramp/Newgate Shopping Center Entrance	6.44	A
65	288053	Signalized	US 29/Route 28 NB Ramp	7.53	A
66	288054	Signalized	US 29/Old Centreville Road/Braddock Road	32.54	C
67	2868152	Signalized	Fairfax County Parkway SB Ramps/Monument Drive	9.38	A
68	2868151	Signalized	Fairfax County Parkway NB Ramps/Monument Drive	23.35	C
69	2868154	Signalized	Fairfax County Parkway SB Ramps/Fair Lakes Parkway (North Intersection)	16.35	B
70	2868153	Signalized	Fairfax County Parkway NB Ramps/Fair Lakes Parkway (North Intersection)	25.94	C
71	2868252	Signalized	Fairfax County Parkway SB Ramps/Lee Highway	11.35	B
72	2868251	Signalized	Fairfax County Parkway NB Ramps/Lee Highway	10.25	B
73	2868261	Signalized	West Ox Road/US 29 Off-Ramp	10.97	B
74	2868264	Signalized	US 29 WB Off-Ramp/Fairfax County Parkway SB On-Ramp	14.01	B
75	2868263	Signalized	US 29 WB On-Ramp/Fairfax County Parkway NB Off-Ramp	9.95	A
76	2868262	Signalized	West Ox Road/US 29 On-Ramp	32.26	C
77	508361	Signalized	West Ox Road/US 50 SB Off-Ramp	13.5	B
78	4958451	Signalized	Route 7/Express Lanes Ramps/I-495 NB On-Ramp	36.13	D
79	4958551	Signalized	US Route 29/I-495 Express Lanes Ramps	56.73	E
80	4958951	Signalized	Gallows Road/I-495 SB Off-Ramp/Woodburn Road	45.33	D
81	4958952	Signalized	Gallows Road/I-495 Express Lanes Ramps	6.42	A
82	4958953	Signalized	Gallows Road/I-495 Express Lanes Ramps	142.39	F
83	289051	Signalized	Westfields Boulevard/Park Meadow Dr/Newbrook Dr	21.4	C
84	289052	Signalized	Westfields Boulevard/Stonecroft Boulevard	32.89	C

Overall Intersection Level of Service - 2040 Build 2B					
Figure Intersection ID	Intersection Node #	Signalization	Intersection Name	7:00 - 8:00 a.m.	
				Intersection Delay (Sec/veh)	LOS
85	664454	Signalized	US 29/Bi-County Parkway Ramps	22.4	C
86	664453	Signalized	Route 234 NB Ramps/Balls Ford Road	27.09	C
87	664452	Signalized	Balls Ford Road/Route 234 Bypass SB Ramps	39.17	D
88	666054	Signalized	Route 123/Orchard Street	2.92	A
89	664356	Signalized	University Blvd/I-66 HOT lanes Ramps	20.85	C
90	664357	Signalized	University Blvd/Park & Ride	34.96	C
91	664754	Signalized	Balls Ford Rd/ Ashton Ave	37.43	D
92	664755	Signalized	Removed in Build 2B	-	-
93	664772	Signalized	I-66 Express Lane & Bus Loop	3.5	A
94	665353	Signalized	Braddock Road/I-66 Ramps	9.18	A
95	666061	Signalized	Removed in Build 2B	-	-
96	666153	Signalized	Removed in Build 2B	-	-
94	665353	Signalized	Braddock Road/I-66 Ramps	9.18	A
95	666061	Signalized	Removed in Build 2B	-	-
96	666153	Signalized	Removed in Build 2B	-	-
99	664055	Signalized	Haymarket PR Drive & PR Lot Ramp	15.79	B
100	664471	Signalized	Cushing Road/ I-66 Express Lane Ramps	4.3	A
101	665455	Signalized	Route 645/HOV Ramps	10.75	B
102	666055	Signalized	Route 123/ I-66 Ramps	37.84	D
103	666261	Signalized	Route 243/ I-66 EB Ramp	18.55	B

Overall Intersection Level of Service - 2040 Build 2B					
Figure Intersection ID	Intersection Node #	Signalization	Intersection Name	5:00 - 6:00 p.m.	
				Intersection Delay (Sec/veh)	LOS
1	663171	Unsignalized	Old Tavern Road/Route 55	28.24	D
2	663172	Unsignalized	Old Tavern Road/I-66 WB Ramps	3.66	A
3	663173	Unsignalized	Old Tavern Road /I-66 EB Ramps	0.59	A
4	663174	Unsignalized	Old Tavern Road/Harrison Road	0.58	A
5	664051	Signalized	US Route 15/Heathcote Blvd	35.79	D
6	664052	Signalized	US Route 15/I-66 WB Ramps	41.27	D
7	664053	Signalized	US Route 15/I-66 EB Ramps	31.86	C
8	664054	Signalized	US 15/Route 55/Washington Street	39.11	D
9	664354	Signalized	US 29 Ramps/Linton Hall Road	21.4	C
10	664361	Signalized	Removed in No Build	-	-
11	664353	Signalized	US 29/I-66 WB Ramps/Heathcote Blvd	90.95	F
12	664352	Signalized	US 29/University Blvd	97.2	F
13	664351	Signalized	Heathcote Blvd/Heritage Hunt Dr	26.91	C
14	664355	Signalized	University Boulevard/Wellington Road	56.49	E
15	664451	Signalized	Removed in No Build	-	-
16	664751	Signalized	Route 234/Bullock Dr/Battleview Pkwy	70.86	E
17	664752	Signalized	Route 234/I-66 WB Ramp/Vandor Lane	31.37	C
18	664761	Signalized	Route 234/I-66 EB Ramps	15.51	B
19	664771	Unsignalized	Route 234/Automotive Drive	1.01	A
20	664753	Signalized	Route 234/Balls Ford Rd	211.31	F
21	665251	Signalized	US 29/Stone Rd	150.34	F
22	665272	Unsignalized	US 29/O'Day Dr./Parking Lot	77.56	F
23	665252	Signalized	US 29/I-66 WB Ramps	115.23	F
24	665261	Signalized	US 29/I-66 EB Ramps	55.43	E
25	665253	Signalized	US 29/Trinity Pkwy/Machen Rd	58.22	E
26	665351	Signalized	Removed in Build 2A	-	-
27	665352	Signalized	Route 28/Braddock Rd/Walney Rd	15.88	B
28	665361	Signalized	Removed in Build 2A	-	-
29	665362	Signalized	Removed in Build 2A	-	-
30	665451	Signalized	Route 645/Fair Lakes Blvd	129.55	F

Overall Intersection Level of Service - 2040 Build 2B					
Figure Intersection ID	Intersection Node #	Signalization	Intersection Name	5:00 - 6:00 p.m.	
				Intersection Delay (Sec/veh)	LOS
31	665452	Signalized	Route 645/Park and Ride	4.91	A
32	665453	Signalized	Removed in Build 2B	-	-
33	665471	Unsignalized	Route 645/Westbrook Dr	5.73	A
34	665454	Signalized	Route 645/Centreville Farms Rd	18.04	B
35	665651	Signalized	Monument Drive/West Ox Road	41.46	D
36	665652	Signalized	Monument Drive/Fair Lakes Parkway	57.51	E
37	665671	Unsignalized	Monument Drive/Fair Lakes Promenade Dr	7.88	A
38	665653	Signalized	Monument Drive/HOV Ramps	44.91	D
39	665654	Signalized	Monument Drive/Government Center Parkway	42.72	D
42	665751	Signalized	US 50/Waples Mill Road	199.21	F
43	665752	Signalized	US 50/Jermantown Road	243.04	F
44	666050	Signalized	Route 123/Jermantown Road	136.6	F
45	666051	Signalized	Route 123/Rose Forest Dr/White Granite Rd	34.87	C
46	666052	Signalized	Route 123/Eaton Pl/Oak Pl	78.85	E
47	666053	Signalized	Route 123/Fairfax Blvd (Route 50/US 29)	102.76	F
48	666151	Signalized	Country Creek Rd/I-66 WB Off-Ramp/Village Spring Lane	3.47	A
49	666152	Signalized	Country Creek Rd/Virginia Center Blvd/Vaden Drive	25.83	C
50	666171	Unsignalized	Vaden Dr/Metro Parking Garage (North of 66)	8.29	A
51	666172	Unsignalized	Vaden Dr/Metro Parking Garage (South of 66)	1.58	A
52	666173	Signalized	Vaden Dr/Saintsbury Dr	20.41	C
53	666251	Signalized	Route 243/Virginia Center Blvd/Marshall Rd	46.39	D
54	666252	Signalized	Route 243/Saintsbury Dr/Swanee Ln	34.39	C
55	666253	Signalized	Route 243/Hermosa Drive	38.19	D
56	666254	Signalized	Route 243/US 29	112.64	F
57	666651	Signalized	Route 7/Idlewood Road	166.36	F
58	666661	Signalized	Route 7/I-66 EB Ramps	67.84	E
59	666671	Unsignalized	Route 7/Metrorail Lot/Dale Drive	10.36	B
60	666672	Unsignalized	Route 7/Mary Ellen Henderson MS Entrance/Chestnut Street	16.66	C
61	666673	Unsignalized	Route 7/George Mason HS Entrance/Chestnut Street	17.91	C

Overall Intersection Level of Service - 2040 Build 2B					
Figure Intersection ID	Intersection Node #	Signalization	Intersection Name	5:00 - 6:00 p.m.	
				Intersection Delay (Sec/veh)	LOS
62	666652	Signalized	Route 7/Haycock Road/Shreve Rd	83.89	F
63	288051	Signalized	US 29/Trinity Pkwy/Centrewood Drive	74.34	E
64	288052	Signalized	US 29/Route 28 SB On-Ramp/Newgate Shopping Center Entrance	69.42	E
65	288053	Signalized	US 29/Route 28 NB Ramp	21.3	C
66	288054	Signalized	US 29/Old Centreville Road/Braddock Road	112.82	F
67	2868152	Signalized	Fairfax County Parkway SB Ramps/Monument Drive	26.67	C
68	2868151	Signalized	Fairfax County Parkway NB Ramps/Monument Drive	23.32	C
69	2868154	Signalized	Fairfax County Parkway SB Ramps/Fair Lakes Parkway (North Intersection)	13.21	B
70	2868153	Signalized	Fairfax County Parkway NB Ramps/Fair Lakes Parkway (North Intersection)	36.7	D
71	2868252	Signalized	Fairfax County Parkway SB Ramps/Lee Highway	26.34	C
72	2868251	Signalized	Fairfax County Parkway NB Ramps/Lee Highway	35.98	D
73	2868261	Signalized	West Ox Road/US 29 Off-Ramp	54.89	D
74	2868264	Signalized	US 29 WB Off-Ramp/Fairfax County Parkway SB On-Ramp	10.41	B
75	2868263	Signalized	US 29 WB On-Ramp/Fairfax County Parkway NB Off-Ramp	46.94	D
76	2868262	Signalized	West Ox Road/US 29 On-Ramp	27.94	C
77	508361	Signalized	West Ox Road/US 50 SB Off-Ramp	23.29	C
78	4958451	Signalized	Route 7/Express Lanes Ramps/I-495 NB On-Ramp	57.49	E
79	4958551	Signalized	US Route 29/I-495 Express Lanes Ramps	42.22	D
80	4958951	Signalized	Gallows Road/I-495 SB Off-Ramp/Woodburn Road	265.67	F
81	4958952	Signalized	Gallows Road/I-495 Express Lanes Ramps	34.67	C
82	4958953	Signalized	Gallows Road/I-495 Express Lanes Ramps	123.96	F
83	289051	Signalized	Westfields Boulevard/Park Meadow Dr/Newbrook Dr	89.69	F
84	289052	Signalized	Westfields Boulevard/Stonecroft Boulevard	115.31	F

Overall Intersection Level of Service - 2040 Build 2B					
Figure Intersection ID	Intersection Node #	Signalization	Intersection Name	5:00 - 6:00 p.m.	
				Intersection Delay (Sec/veh)	LOS
85	664454	Signalized	US 29/Bi-County Parkway Ramps	20.84	C
86	664453	Signalized	Route 234 NB Ramps/Balls Ford Road	54.2	D
87	664452	Signalized	Balls Ford Road/Route 234 Bypass SB Ramps	39.68	D
88	666054	Signalized	Route 123/Orchard Street	46.12	D
89	664356	Signalized	University Blvd/I-66 HOT lanes Ramps	20.04	C
90	664357	Signalized	University Blvd/Park & Ride	48.35	D
91	664754	Signalized	Balls Ford Rd/ Ashton Ave	33.24	C
92	664755	Signalized	Removed in Build 2B	-	-
93	664772	Signalized	I-66 Express Lane & Bus Loop	9.31	A
94	665353	Signalized	Braddock Road/I-66 Ramps	24.25	C
95	666061	Signalized	Removed in Build 2B	-	-
96	666153	Signalized	Removed in Build 2B	-	-
94	665353	Signalized	Braddock Road/I-66 Ramps	24.25	C
95	666061	Signalized	Removed in Build 2B	-	-
96	666153	Signalized	Removed in Build 2B	-	-
99	664055	Signalized	Haymarket PR Drive & PR Lot Ramp	15.83	B
100	664471	Signalized	Cushing Road/ I-66 Express Lane Ramps	15.14	B
101	665455	Signalized	Route 645/HOV Ramps	7.92	A
102	666055	Signalized	Route 123/ I-66 Ramps	93.24	F
103	666261	Signalized	Route 243/ I-66 EB Ramp	16.54	B