



District Department of Transportation

Speed Limit and Safety Nexus Studies for Automated Enforcement Locations in the District of Columbia

Rock Creek Parkway NW 0.2 Miles South of Virginia Avenue

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
2	207	2	2A	Proposed	Rock Creek Parkway Northbound Northwest, 0.2 Miles South of Virginia Avenue



This *proposed* speed camera location will be located in Ward 2 on Rock Creek Parkway 0.2 miles south of Virginia Avenue in the northbound direction. Rock Creek Parkway runs between Calvert Street Northwest to the north and Ohio Drive Southwest to the south. The posted speed limit is 25 MPH.

W2 - 115





District Department of Transportation

Rock Creek Parkway NW 0.2 Miles South of Virginia Avenue

Field Assessment Summary

Rock Creek Parkway is assumed to run in the north-south direction, and is classified as a principal arterial. Rock Creek Parkway has two travel lanes in each direction. This site has the following characteristics:

- There is a concrete median with curb, gutter, and drainage inlets.
- The existing pavement is in good condition.
- There is one school in this area: George Washington University.
- There are multiple bus stops and one Metrorail station in the area.
- Rock Creek Park Trail runs along the west side of Rock Creek Parkway.



Looking Northbound



District Department of Transportation

Rock Creek Parkway NW 0.2 Miles South of Virginia Avenue



Looking Southbound

Speed Data Analysis

Posted Speed Limit (MPH)	25
Mean Speed (MPH)	26
85th Percentile Speed (MPH)	35
10 MPH Pace Speed (MPH)	26-35
ADT	10,547

The mean speed and the 85th percentile speed are both higher than the posted speed limit. The 85th speed is 10 MPH higher than the posted speed limit.

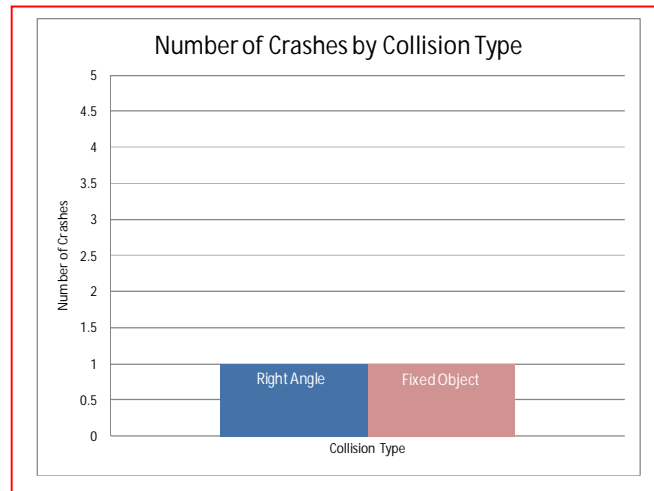
Crash Data Analysis

From the Accident Summary Report provided for the dates between January 1, 2010 and December 31, 2012, there were a total of two crashes at this location. A breakdown of number of crashes by collision type can be found in the chart on the next page. One crash was a right angle crash and the other was a fixed object crash.



Rock Creek Parkway NW 0.2 Miles South of Virginia Avenue

Severity			Weather			Surface condition			Light Condition		
Total	2										
Fatal	0	0.0%	Clear	1	50.0%	Dry	1	50.0%	Day	2	100.0%
Injury	0	0.0%	Rain	1	50.0%	Wet	1	50.0%	Night	0	0.0%
Taxi	1	50.0%	Fog/Mist	0	0.0%	Snow/Ice	0	0.0%			
Bus	0	0.0%									



Safety Nexus

This site presents the following safety considerations which may establish a nexus between the speed camera and traffic safety:

1. Speed Data – The 85th percentile speed is much higher than the posted speed limit at this location.
2. Crash Data – The crash data analysis shows a low number of crashes at this location.
3. Field Assessment – The following site characteristics suggest a need for a safer travel environment:
 - a. There is one school in this area: George Washington University.
 - b. There are multiple bus stops and one Metrorail station in the area which generate pedestrian activity.
 - c. Rock Creek Park Trail runs along the west side of Rock Creek Parkway which generates pedestrian and bicycle activity.

Although the crash data analysis showed a low number of crashes at this location, due to the speed data analysis, the specific site characteristics, and pedestrian generators, there is a nexus between traffic safety and the speed camera at this location.

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

Rock Creek Pky NB NW .2 mi s/o Virginia Ave Speed

NB

Start Time	15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total
11/05/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	0	0	2	26	43	54	23	9	4	0	0	0	0	0	161
05:00	11	1	5	62	111	129	89	26	5	2	0	0	0	0	441
06:00	6	1	9	80	74	80	31	14	1	2	0	0	0	0	298
07:00	0	2	4	1	4	1	0	0	0	0	0	0	0	0	12
08:00	1	0	2	4	6	0	0	0	0	0	0	0	0	0	13
09:00	81	56	116	104	54	24	1	1	0	0	0	0	0	0	437
10:00	41	42	122	254	209	111	32	6	2	0	0	0	0	0	819
11:00	68	61	119	222	246	77	26	4	0	0	0	0	0	0	823
12 PM	61	51	128	271	208	66	28	3	0	0	0	0	0	0	816
13:00	79	75	170	226	201	70	14	0	0	0	0	0	0	0	835
14:00	125	111	192	237	159	57	11	3	1	0	0	0	0	0	896
15:00	213	157	223	206	118	27	5	0	0	0	0	0	0	0	949
16:00	0	1	17	43	28	9	2	0	0	0	0	0	0	0	100
17:00	1	3	24	77	50	11	4	0	0	0	0	0	0	0	170
18:00	338	95	22	18	12	2	0	1	0	0	0	0	0	0	488
19:00	106	106	161	198	170	78	22	3	0	0	0	0	0	0	844
20:00	21	29	88	193	246	115	36	3	0	0	0	0	0	0	731
21:00	11	9	53	159	219	106	34	4	1	0	0	0	0	0	596
22:00	24	19	84	183	200	101	34	2	0	0	0	0	0	0	647
23:00	1	1	9	47	81	76	15	3	2	0	1	0	0	0	236
Total	1188	820	1550	2611	2439	1194	407	82	16	4	1	0	0	0	10312

Daily

15th Percentile : 11 MPH
 50th Percentile : 26 MPH
 85th Percentile : 35 MPH
 95th Percentile : 40 MPH

Mean Speed(Average) : 25 MPH
 10 MPH Pace Speed : 25-34 MPH
 Number in Pace : 4223
 Percent in Pace : 41.0%
 Number of Vehicles > 25 MPH : 5854
 Percent of Vehicles > 25 MPH : 56.8%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

Rock Creek Pky NB NW .2 mi s/o Virginia Ave Speed

NB

Start Time	15	16	21	26	31	36	41	46	51	56	61	66	71	76	Total
	15	20	25	30	35	40	45	50	55	60	65	70	75	999	
11/06/13	1	0	6	25	36	32	4	0	0	0	0	0	0	0	104
01:00	0	0	1	6	20	15	5	1	0	0	0	0	0	0	48
02:00	0	0	1	7	9	6	6	2	0	0	2	2	0	0	35
03:00	1	0	3	8	17	12	5	2	0	0	0	0	0	0	48
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	2	0	11	46	82	65	20	5	0	0	2	2	0	0	235

Daily

15th Percentile : 27 MPH
 50th Percentile : 33 MPH
 85th Percentile : 39 MPH
 95th Percentile : 43 MPH

Mean Speed(Average) : 34 MPH
 10 MPH Pace Speed : 30-39 MPH
 Number in Pace : 139
 Percent in Pace : 59.1%
 Number of Vehicles > 25 MPH : 216
 Percent of Vehicles > 25 MPH : 92.1%

Grand Total	1190	820	1561	2657	2521	1259	427	87	16	4	3	2	0	0	10547
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Overall

15th Percentile : 11 MPH
 50th Percentile : 26 MPH
 85th Percentile : 35 MPH
 95th Percentile : 40 MPH

Mean Speed(Average) : 26 MPH
 10 MPH Pace Speed : 26-35 MPH
 Number in Pace : 4335
 Percent in Pace : 41.1%
 Number of Vehicles > 25 MPH : 6062
 Percent of Vehicles > 25 MPH : 57.5%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

Rock Creek Pky NB NW .2 mi s/o Virginia Ave Volume

Start Time	Tue	05-Nov-13	Wed	06-Nov-13	Thu	07-Nov-13	Daily Average	
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	*	215	40	*	*	*	40	215
12:15	*	195	21	*	*	*	21	195
12:30	*	216	21	*	*	*	21	216
12:45	*	190	22	*	*	*	22	190
01:00	*	192	13	*	*	*	13	192
01:15	*	185	16	*	*	*	16	185
01:30	*	230	10	*	*	*	10	230
01:45	*	228	9	*	*	*	9	228
02:00	*	202	4	*	*	*	4	202
02:15	*	224	13	*	*	*	13	224
02:30	*	259	8	*	*	*	8	259
02:45	*	211	10	*	*	*	10	211
03:00	*	213	11	*	*	*	11	213
03:15	*	246	8	*	*	*	8	246
03:30	*	272	14	*	*	*	14	272
03:45	*	218	15	*	*	*	15	218
04:00	19	27	*	*	*	*	19	27
04:15	22	18	*	*	*	*	22	18
04:30	45	22	*	*	*	*	45	22
04:45	75	33	*	*	*	*	75	33
05:00	91	46	*	*	*	*	91	46
05:15	97	41	*	*	*	*	97	41
05:30	134	42	*	*	*	*	134	42
05:45	119	41	*	*	*	*	119	41
06:00	145	51	*	*	*	*	145	51
06:15	138	142	*	*	*	*	138	142
06:30	14	156	*	*	*	*	14	156
06:45	1	139	*	*	*	*	1	139
07:00	7	205	*	*	*	*	7	205
07:15	3	249	*	*	*	*	3	249
07:30	0	212	*	*	*	*	0	212
07:45	2	178	*	*	*	*	2	178
08:00	3	183	*	*	*	*	3	183
08:15	5	182	*	*	*	*	5	182
08:30	4	193	*	*	*	*	4	193
08:45	1	173	*	*	*	*	1	173
09:00	9	169	*	*	*	*	9	169
09:15	11	150	*	*	*	*	11	150
09:30	187	128	*	*	*	*	187	128
09:45	230	149	*	*	*	*	230	149
10:00	213	202	*	*	*	*	213	202
10:15	211	182	*	*	*	*	211	182
10:30	199	148	*	*	*	*	199	148
10:45	196	115	*	*	*	*	196	115
11:00	211	84	*	*	*	*	211	84
11:15	196	69	*	*	*	*	196	69
11:30	206	53	*	*	*	*	206	53
11:45	210	30	*	*	*	*	210	30
Total	3004	7308	235	0	0	0	3239	7308
Combined Total	10312		235		0		10547	
Peak Vol.	09:45 853	03:00 949	12:00 104				09:45 853	03:00 949
P.H.F.	0.927	0.872	0.650				0.927	0.872
ADT		ADT 10,547	AADT 10,547					

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

Corridor: ROCK CREEK & POTOMAC PKWY,NW From VIRGINIA AVE,NW TO F ST,NW

Time Period Covered: From 01/01/2010 To 12/31/2012

Prepared By: Rahul Jain

Prepared Date: 9/15/2013

Total Number of Accident:	2	Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Fatalities:	0	Right Angle:	1	50.0%	Fixed Object:	1	50.0%
Total Number of Injuries:	0	Left Turn:	0	0.0%	Ran Off Road:	0	0.0%
Total Number of Disabling Injuries:	0	Right Turn:	0	0.0%	Ped. Involved:	0	0.0%
Total Number of NonDisabling Injuries:	0	Rear End:	0	0.0%	Backing:	0	0.0%
Total Number of Pedestrians Involved:	0	Side Swiped:	0	0.0%	Non Collision:	0	0.0%
Total Number of Bicycles Involved:	0	Head On:	0	0.0%	Under/Over Ride:	0	0.0%
Total Number of Motorcycles Involved:	0	Parked:	0	0.0%	Unspecified:	0	0.0%
Time of Day				#ACC	%	Day o fweek	
07:30 ~ 09:30:				0	0.0%	Sunday:	
09:30 ~ 11:30:				0	0.0%	Monday:	
11:30 ~ 13:30:				0	0.0%	Tuesday:	
13:30 ~ 16:00:				0	0.0%	Wednesday:	
16:00 ~18:30:				1	50.0%	Thursday:	
18:30 ~ 07:30:				1	50.0%	Friday:	
Unspecified:				0	0.0%	Saturday:	
Weather Condition				#ACC	%	Surface Condition	
Clear:				1	50.0%	Dry:	
Rain:				1	50.0%	Wet:	
Snow:				0	0.0%	Snow/Ice:	
Sleet/Hail:				0	0.0%	Slush:	
Fog/Mist:				0	0.0%	Water/Sand:	
Crosswind/Blowing Sand:				0	0.0%	Repairing:	
Unspecified:				0	0.0%	Unspecified:	
Type of Vehicle				#VEH	%	Accident Severity Type	
Passenger Car:				2	66.7%	Fatal Collision:	
Bus:				0	0.0%	Injury Collision:	
Truck:				0	0.0%	PDO Collision:	
Taxi:				1	33.3%		
Minivan:				0	0.0%	Light Condition	
Police/Emergency Vehicle:				0	0.0%	Daylight:	
Motorcycle/Moped:				0	0.0%	Dawn/Dusk:	
Bicycle:				0	0.0%	Dark(Lighted):	
Fixed Object:				0	0.0%	Dark(Not Lighted):	
Unspecified:				0	0.0%	Dark(Unknown Lighting):	
						Unspecified:	
Contributing Factor				#VEH	%	Pedestrian Actions	
Driver: Speed:				0	0.0%	In Crosswalk with Signal:	
Driver: Alcohol/Drug:				0	0.0%	In Crosswalk against Signal:	
Driver: Electronic Device:				0	0.0%	In Crosswalk no Signal:	
Driver: Others:				2	66.7%	In Unmarked Crosswalk:	
Vehicle:				0	0.0%	Not in Crosswalk:	
Roadway:				0	0.0%	From Between Parked Cars:	
Unspecified:				1	33.3%	Unspecified:	

1 Records are not approved as of 9/15/2013 10:11:35 PM