



District Department of Transportation

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

300 Block Rock Creek Church Road NW

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
4	407	4	4C	Proposed	300 Block Rock Creek Church Road Northwest Southwestbound



The *proposed* speed camera will be located in Ward 4 at the 300 block of Rock Creek Church Road Northwest in the southwestbound direction. Rock Creek Church Road Northwest runs between North Capitol Street Northeast to the northeast and Georgia Avenue Northwest to the southwest. The posted speed limit is 25 MPH.

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District Department of Transportation

300 Block Rock Creek Church Road NW

Field Assessment Summary

Rock Creek Church Road Northwest is assumed to run in a northeast-southwest direction, and is classified as a collector road. Rock Creek Church Road has one travel lane in each direction. This site has the following characteristics:

- This is a residential area with houses on the northwest side of the street.
- There is one school in the area: Preparatory School of DC.
- There are crosswalks at 4th Street and 3rd Street.
- There is sidewalk on both sides of the street and on-street parking on the west side of the street.
- There are rumble strips on the block.
- The pavement is in fair condition and there is curb and gutter with drainage inlets.
- There is a bus stop southbound at 4th Street and one northbound at 3rd Street.



Looking Northeast-bound

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District Department of Transportation

300 Block Rock Creek Church Road NW



Looking Southwest-bound

Speed Data Analysis

Posted Speed Limit (MPH)	25
Mean Speed (MPH)	24
85th Percentile Speed (MPH)	29
10 MPH Pace Speed	21-30
ADT	1,587

The mean speed is lower than the posted speed limit by 1 MPH and the 85th percentile speed is higher than the posted speed by 4 MPH at this location.

Crash Data Analysis

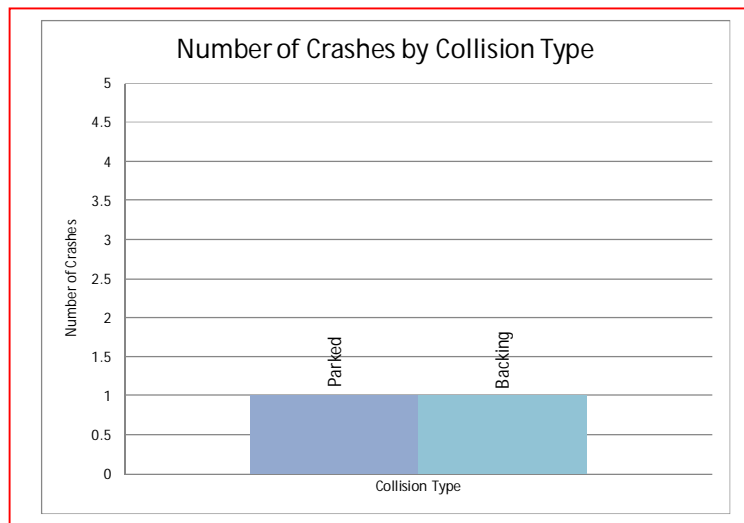
From the Accident Summary Report provided for the dates between January 1, 2013 and December 31, 2013 there were a total of two crashes at this location. A breakdown of number of crashes by collision type can be found in the chart on the next page. The most common types of crashes at this location were Parked (1) and Backing (1).



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300 Block Rock Creek Church Road NW

Severity			Weather			Surface condition			Light Condition		
Total	2										
Fatal	0	0.0%	Clear	2	100.0%	Dry	2	100.0%	Day	1	50.0%
Injury	0	0.0%	Rain	0	0.0%	Wet	0	0.0%	Night	1	50.0%
Truck	0	0.0%	Snow	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 traffic safety and the speed camera:

1. Speed Data – The 85th percentile speed is 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. This is a residential area with houses on the northwest side of the street.
 - b. There is one school in the area: Preparatory School of DC.
 - c. There are multiple bus stops in the area which generate pedestrian activity.
 - d. There is on-street parking on the west side of the street.
 - e. There are rumble strips on the block which suggest a speeding issue.

Although the crash data analysis showed a low number of crashes at this location, the 85th percentile speed and the presences of rumble strips reveals an issue with speeding on the roadway. Due to the speed data



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300 Block Rock Creek Church Road NW

analysis, the presence of rumble strips, the specific site characteristics of a residential area, and the pedestrian generators, there is a nexus between traffic safety and the speed camera at this location.

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SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

300 Block of Rock Creek Church RD NW SWB Speed

Start Time	1 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
11/10/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	4	3	13	6	0	0	0	0	0	0	0	0	0	0	26
23:00	2	3	12	15	3	0	0	0	0	0	0	0	0	0	35
Total	6	6	25	21	3	0	0	0	0	0	0	0	0	0	61

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

300 Block of Rock Creek Church RD NW SWB Speed

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/11/13	3	2	7	9	2	0	0	0	0	0	0	0	0	0	23
01:00	5	1	1	2	0	0	0	0	0	0	0	0	0	0	9
02:00	1	1	4	7	0	0	0	0	0	0	0	0	0	0	13
03:00	0	1	0	5	1	1	0	0	0	0	0	0	0	0	8
04:00	3	1	3	4	2	0	0	0	0	0	0	0	0	0	13
05:00	1	2	6	12	4	0	0	0	0	0	0	0	0	0	25
06:00	2	3	16	23	2	1	0	0	0	0	0	0	0	0	47
07:00	6	10	29	36	8	2	0	0	0	0	0	0	0	0	91
08:00	4	3	34	49	13	0	0	0	0	0	0	0	0	0	103
09:00	1	5	29	35	7	2	0	0	0	0	0	0	0	0	79
10:00	2	7	32	30	6	0	0	0	0	0	0	0	0	0	77
11:00	3	2	33	46	2	1	0	0	0	0	0	0	0	0	87
12 PM	3	4	36	55	10	0	0	0	0	0	0	0	0	0	108
13:00	4	2	40	38	4	1	0	0	0	0	0	0	0	0	89
14:00	3	9	25	47	22	0	0	0	0	0	0	0	0	0	106
15:00	2	8	50	53	14	0	0	0	0	0	0	0	0	0	127
16:00	3	9	53	46	3	2	0	0	0	0	0	0	0	0	116
17:00	1	7	52	34	5	2	0	0	0	0	0	0	0	0	101
18:00	6	15	48	33	5	1	0	0	0	0	0	0	0	0	108
19:00	4	3	33	36	4	0	1	0	0	0	0	0	0	0	81
20:00	0	4	18	22	8	0	0	0	0	0	0	0	0	0	52
21:00	0	9	18	15	4	1	0	0	0	0	0	0	0	0	47
22:00	0	8	5	2	0	1	0	0	0	0	0	0	0	0	16
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	57	116	572	639	126	15	1	0	0	0	0	0	0	0	1526
Grand Total	63	122	597	660	129	15	1	0	0	0	0	0	0	0	1587

15th Percentile : 18 MPH
 50th Percentile : 24 MPH
 85th Percentile : 29 MPH
 95th Percentile : 32 MPH

Stats
 Mean Speed(Average) : 24 MPH
 10 MPH Pace Speed : 21-30 MPH
 Number in Pace : 1062
 Percent in Pace : 66.9%
 Number of Vehicles > 25 MPH : 745
 Percent of Vehicles > 25 MPH : 47.0%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

300 Block of Rock Creek Church RD NW SWB Volume

Start Time	Sun	10-Nov-13	Mon	11-Nov-13	Tue	12-Nov-13	Daily Average	
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	*	*	5	35	*	*	5	35
12:15	*	*	8	24	*	*	8	24
12:30	*	*	6	23	*	*	6	23
12:45	*	*	4	26	*	*	4	26
01:00	*	*	1	22	*	*	1	22
01:15	*	*	2	24	*	*	2	24
01:30	*	*	3	18	*	*	3	18
01:45	*	*	3	25	*	*	3	25
02:00	*	*	5	26	*	*	5	26
02:15	*	*	4	17	*	*	4	17
02:30	*	*	4	31	*	*	4	31
02:45	*	*	0	32	*	*	0	32
03:00	*	*	3	27	*	*	3	27
03:15	*	*	2	31	*	*	2	31
03:30	*	*	1	27	*	*	1	27
03:45	*	*	2	42	*	*	2	42
04:00	*	*	0	20	*	*	0	20
04:15	*	*	4	31	*	*	4	31
04:30	*	*	4	32	*	*	4	32
04:45	*	*	5	33	*	*	5	33
05:00	*	*	3	26	*	*	3	26
05:15	*	*	8	32	*	*	8	32
05:30	*	*	6	24	*	*	6	24
05:45	*	*	8	19	*	*	8	19
06:00	*	*	11	36	*	*	11	36
06:15	*	*	9	26	*	*	9	26
06:30	*	*	14	27	*	*	14	27
06:45	*	*	13	19	*	*	13	19
07:00	*	*	23	16	*	*	23	16
07:15	*	*	18	23	*	*	18	23
07:30	*	*	29	22	*	*	29	22
07:45	*	*	21	20	*	*	21	20
08:00	*	*	27	14	*	*	27	14
08:15	*	*	32	15	*	*	32	15
08:30	*	*	21	10	*	*	21	10
08:45	*	*	23	13	*	*	23	13
09:00	*	*	16	5	*	*	16	5
09:15	*	*	20	16	*	*	20	16
09:30	*	*	20	15	*	*	20	15
09:45	*	*	23	11	*	*	23	11
10:00	*	*	20	16	*	*	20	16
10:15	*	10	23	*	*	*	23	10
10:30	*	9	12	*	*	*	12	9
10:45	*	7	22	*	*	*	22	7
11:00	*	4	21	*	*	*	21	4
11:15	*	10	22	*	*	*	22	10
11:30	*	7	21	*	*	*	21	7
11:45	*	14	23	*	*	*	23	14
Total	0	61	575	951	0	0	575	1012
Combined Total	61		1526		0		1587	
Peak	11:00		07:30	03:00			07:30	03:00
Vol.	35		109	127			109	127
P.H.F.	0.625		0.852	0.756			0.852	0.756
ADT	ADT 1,587		AADT 1,587					

Accident Summary Report (R-8)**Corridor:** ROCK CREEK CHURCH RD,NW From ILLINOIS AVE,NW TO THIRD ST,NW**Time Period Covered:** From 01/01/2010 To 12/31/2012**Prepared By:** Rahul Jain**Prepared Date:** 9/15/2013

		Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Accident:	2	Right Angle:	0	0.0%	Fixed Object:	0	0.0%
Total Number of Fatalities:	0	Left Turn:	0	0.0%	Ran Off Road:	0	0.0%
Total Number of Injuries:	0	Right Turn:	0	0.0%	Ped. Involved:	0	0.0%
Total Number of Disabling Injuries:	0	Rear End:	0	0.0%	Backing:	1	50.0%
Total Number of NonDisabling Injuries:	0	Side Swiped:	0	0.0%	Non Collision:	0	0.0%
Total Number of Pedestrians Involved:	0	Head On:	0	0.0%	Under/Over Ride:	0	0.0%
Total Number of Bicycles Involved:	0	Parked:	1	50.0%	Unspecified:	0	0.0%
Total Number of Motorcycles Involved:	0						

Time of Day	#ACC	%	Day of week	#ACC	%
07:30 ~ 09:30:	0	0.0%	Sunday:	0	0.0%
09:30 ~ 11:30:	0	0.0%	Monday:	1	50.0%
11:30 ~ 13:30:	0	0.0%	Tuesday:	0	0.0%
13:30 ~ 16:00:	0	0.0%	Wednesday:	0	0.0%
16:00 ~ 18:30:	1	50.0%	Thursday:	0	0.0%
18:30 ~ 07:30:	1	50.0%	Friday:	0	0.0%
Unspecified:	0	0.0%	Saturday:	1	50.0%

Weather Condition	#ACC	%	Surface Condition	#ACC	%
Clear:	2	100.0%	Dry:	2	100.0%
Rain:	0	0.0%	Wet:	0	0.0%
Snow:	0	0.0%	Snow/Ice:	0	0.0%
Sleet/Hail:	0	0.0%	Slush:	0	0.0%
Fog/Mist:	0	0.0%	Water/Sand:	0	0.0%
Crosswind/Blowing Sand:	0	0.0%	Repairing:	0	0.0%
Unspecified:	0	0.0%	Unspecified:	0	0.0%

Type of Vehicle	#VEH	%	Accident Severity Type	#ACC	%
Passenger Car:	7	100.0%	Fatal Collision:	0	0.0%
Bus:	0	0.0%	Injury Collision:	0	0.0%
Truck:	0	0.0%	PDO Collision:	2	100.0%
Taxi:	0	0.0%			
Minivan:	0	0.0%	Light Condition	#ACC	%
Police/Emergency Vehicle:	0	0.0%	Daylight:	1	50.0%
Motorcycle/Moped:	0	0.0%	Dawn/Dusk:	0	0.0%
Bicycle:	0	0.0%	Dark(Lighted):	1	50.0%
Fixed Object:	0	0.0%	Dark(Not Lighted):	0	0.0%
Unspecified:	0	0.0%	Dark(Unknown Lighting):	0	0.0%
			Unspecified:	0	0.0%

Contributing Factor	#VEH	%	Pedestrian Actions	#ACC	%
Driver: Speed:	0	0.0%	In Crosswalk with Signal:	0	0.0%
Driver: Alcohol/Drug:	1	14.3%	In Crosswalk against Signal:	0	0.0%
Driver: Electronic Device:	0	0.0%	In Crosswalk no Signal:	0	0.0%
Driver: Others:	1	14.3%	In Unmarked Crosswalk:	0	0.0%
Vehicle:	0	0.0%	Not in Crosswalk:	0	0.0%
Roadway:	0	0.0%	From Between Parked Cars:	0	0.0%
Unspecified:	5	71.4%	Unspecified:	0	0.0%

1 Records are not approved as of 9/15/2013 12:27:05 PM