



District Department of Transportation

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

5800 Block Nebraska Avenue NW

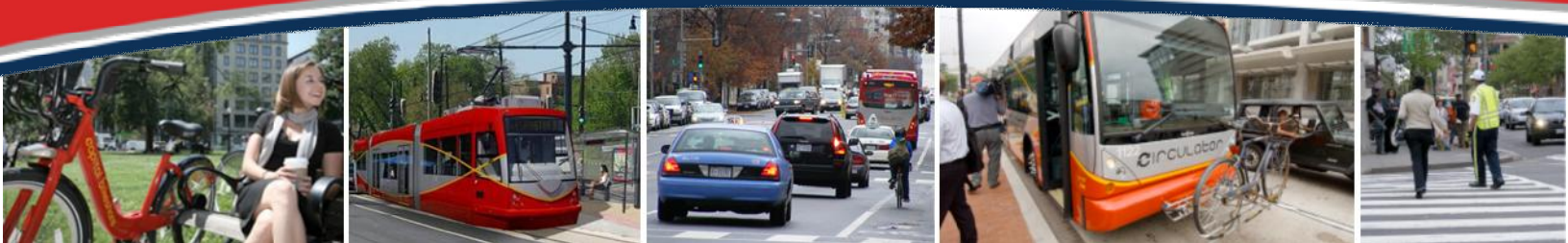
Study Area and Location

District	PSA	Ward	ANC	Phase	Description
2	201	3	3G	Proposed	5800 Block Nebraska Ave Northwest Northwest-bound



The *proposed* speed camera will be located in Ward 3 at the 5800 block of Nebraska Avenue Northwest in the westbound direction. Nebraska Avenue runs between Oregon Avenue Northwest to the north and Indian Lane Northwest and Chain Bridge Road Northwest to the south. The posted speed limit is 25 MPH.

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District Department of Transportation

5800 Block Nebraska Avenue NW

Field Assessment Summary

Nebraska Avenue is assumed to run in a northwest-southeast direction, and is classified as a collector road. Nebraska Avenue has one travel lane in each direction. This site has the following characteristics:

- This is a residential area with driveways.
- There are two schools in the area: St. John's College High School and Lafayette Elementary School. Lafayette Recreation Center is also in the area.
- There is sidewalk and on-street parking on both sides of the street.
- There is a crosswalk at 28th Street and a traffic signal with pedestrian signals and crosswalks at Utah Avenue.
- The pavement is in good condition and there is curb and gutter with drainage inlets. There is a slope downgrade southeast-bound.



Looking Northwest-bound

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District Department of Transportation

5800 Block Nebraska Avenue NW



Looking Southeast-bound

Speed Data Analysis

Posted Speed Limit (MPH)	25
Mean Speed (MPH)	26
85th Percentile Speed (MPH)	30
10 MPH Pace Speed (MPH)	22-31
ADT	3,015

The mean speed is higher than the posted speed limit by 1 MPH and the 85th percentile speed is higher than the posted speed by 5 MPH at this location.

Crash Data Analysis

From the Accident Summary Report provided for the dates between January 1, 2010 and December 31, 2012, there was one crash at this location. A breakdown of number of crashes by collision type can be found in the chart on the next page. The one crash at this location was type Side Swipe.

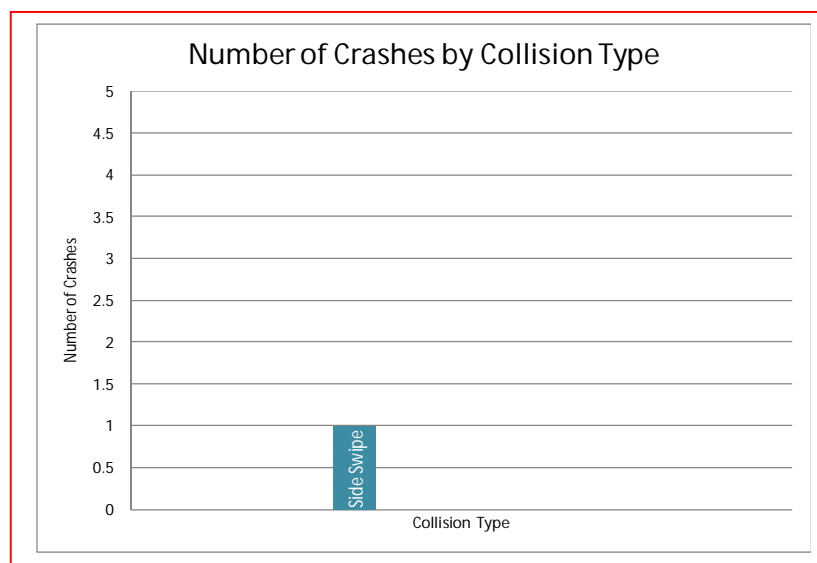
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District Department of Transportation

5800 Block Nebraska Avenue NW

Severity			Weather			Surface condition			Light Condition		
Total	1										
Fatal	0	0.0%	Clear	0	0.0%	Dry	1	100.0%	Day	1	100.0%
Injury	0	0.0%	Rain	0	0.0%	Wet	0	0.0%	Night	0	0.0%
Taxi	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 and driveways.
 - b. There are two schools in the area: St. John's College High School and Lafayette Elementary School.
 - c. Lafayette Recreation Center is in the area which generates pedestrian and bicycle activity.
 - d. There are multiple bus stops in the area which generate pedestrian activity.

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District Department of Transportation

5800 Block Nebraska Avenue NW

Although the crash data analysis showed a low number of crashes at this location, due to the speed data, the specific site characteristics, and 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

5800 block of Nebraska Ave NW NWB Speed

NWB

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
11/06/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	3	0	0	3	1	1	0	0	0	0	0	0	0	0	8
05:00	1	2	5	15	4	0	1	0	0	0	0	0	0	0	28
06:00	10	8	17	37	12	1	0	0	0	0	0	0	0	0	85
07:00	2	15	59	81	18	1	0	0	0	0	0	0	0	0	176
08:00	0	5	35	62	18	1	0	0	0	0	0	0	0	0	121
09:00	3	1	22	50	15	3	1	0	0	0	0	0	0	0	95
10:00	1	4	39	75	17	0	0	0	0	0	0	0	0	0	136
11:00	1	9	36	73	33	2	0	0	0	0	0	0	0	0	154
12 PM	2	3	49	85	28	0	1	0	0	0	0	0	0	0	168
13:00	3	9	60	86	25	1	0	0	0	0	0	0	0	0	184
14:00	4	3	60	143	28	2	0	0	0	0	0	0	0	0	240
15:00	6	20	82	125	23	2	0	0	0	0	0	0	0	0	258
16:00	5	16	148	139	24	0	0	0	0	0	0	0	0	0	332
17:00	3	16	156	156	13	0	0	0	0	0	0	0	0	0	344
18:00	3	15	96	100	11	0	0	0	0	0	0	0	0	0	225
19:00	0	8	75	62	20	1	0	0	0	0	0	0	0	0	166
20:00	1	4	58	68	14	1	0	0	0	0	0	0	0	0	146
21:00	1	1	18	40	19	2	0	0	0	0	0	0	0	0	81
22:00	0	4	5	19	13	1	2	0	0	0	0	0	0	0	44
23:00	0	0	1	9	3	1	0	0	0	0	0	0	0	0	14
Total	49	143	1022	1428	339	20	5	0	0	0	0	0	0	0	3006

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

5800 block of Nebraska Ave NW NWB Speed

NWB

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
11/07/13	0	0	1	3	0	1	0	0	0	0	0	0	0	0	5
01:00	0	0	3	1	0	0	0	0	0	0	0	0	0	0	4
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	0	0	4	4	0	1	0	0	0	0	0	0	0	0	9
Grand Total	49	143	1026	1432	339	21	5	0	0	0	0	0	0	0	3015

15th Percentile : 20 MPH
50th Percentile : 25 MPH
85th Percentile : 30 MPH
95th Percentile : 33 MPH

Stats
Mean Speed(Average) : 26 MPH
10 MPH Pace Speed : 22-31 MPH
Number in Pace : 2162
Percent in Pace : 71.7%
Number of Vehicles > 25 MPH : 1686
Percent of Vehicles > 25 MPH : 55.9%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

5800 block of Nebraska Ave NW NWB Volume

Start Time	Wed A.M.	06-Nov-13 P.M.	Thu A.M.	07-Nov-13 P.M.	Fri A.M.	08-Nov-13 P.M.	Daily Average	
							A.M.	P.M.
12:00	*	39	2	*	*	*	2	39
12:15	*	50	1	*	*	*	1	50
12:30	*	46	1	*	*	*	1	46
12:45	*	33	1	*	*	*	1	33
01:00	*	52	0	*	*	*	0	52
01:15	*	48	3	*	*	*	3	48
01:30	*	44	1	*	*	*	1	44
01:45	*	40	0	*	*	*	0	40
02:00	0	53	*	*	*	*	0	53
02:15	1	67	*	*	*	*	1	67
02:30	0	57	*	*	*	*	0	57
02:45	0	63	*	*	*	*	0	63
03:00	0	72	*	*	*	*	0	72
03:15	0	65	*	*	*	*	0	65
03:30	0	66	*	*	*	*	0	66
03:45	0	55	*	*	*	*	0	55
04:00	1	70	*	*	*	*	1	70
04:15	0	94	*	*	*	*	0	94
04:30	3	90	*	*	*	*	3	90
04:45	4	78	*	*	*	*	4	78
05:00	4	81	*	*	*	*	4	81
05:15	5	90	*	*	*	*	5	90
05:30	8	97	*	*	*	*	8	97
05:45	11	76	*	*	*	*	11	76
06:00	7	62	*	*	*	*	7	62
06:15	25	54	*	*	*	*	25	54
06:30	25	60	*	*	*	*	25	60
06:45	28	49	*	*	*	*	28	49
07:00	42	40	*	*	*	*	42	40
07:15	43	38	*	*	*	*	43	38
07:30	53	47	*	*	*	*	53	47
07:45	38	41	*	*	*	*	38	41
08:00	38	36	*	*	*	*	38	36
08:15	35	48	*	*	*	*	35	48
08:30	26	31	*	*	*	*	26	31
08:45	22	31	*	*	*	*	22	31
09:00	30	20	*	*	*	*	30	20
09:15	17	22	*	*	*	*	17	22
09:30	21	19	*	*	*	*	21	19
09:45	27	20	*	*	*	*	27	20
10:00	28	9	*	*	*	*	28	9
10:15	37	19	*	*	*	*	37	19
10:30	30	10	*	*	*	*	30	10
10:45	41	6	*	*	*	*	41	6
11:00	44	6	*	*	*	*	44	6
11:15	38	2	*	*	*	*	38	2
11:30	34	3	*	*	*	*	34	3
11:45	38	3	*	*	*	*	38	3
Total	804	2202	9	0	0	0	813	2202
Combined Total	3006		9		0		3015	
Peak	07:00	04:45	12:00				07:00	04:45
Vol.	176	346	5				176	346
P.H.F.	0.830	0.892	0.625				0.830	0.892
ADT		ADT 3,015	AADT 3,015					

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

Corridor: NEBRASKA AVE,NW From OLIVER ST,NW TO UTAH AVE,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:	1	Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Fatalities:	0	Right Angle:	0	0.0%	Fixed Object:	0	0.0%
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:	1	100.0%	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	#ACC	%
07:30 ~ 09:30:	0	0.0%	Sunday:	0	0.0%
09:30 ~ 11:30:	0	0.0%	Monday:	0	0.0%
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:	0	0.0%	Thursday:	0	0.0%
18:30 ~ 07:30:	1	100.0%	Friday:	1	100.0%
Unspecified:	0	0.0%	Saturday:	0	0.0%

Weather Condition	#ACC	%	Surface Condition	#ACC	%
Clear:	0	0.0%	Dry:	1	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:	1	100.0%	Unspecified:	0	0.0%

Type of Vehicle	#VEH	%	Accident Severity Type	#ACC	%
Passenger Car:	0	0.0%	Fatal Collision:	0	0.0%
Bus:	0	0.0%	Injury Collision:	0	0.0%
Truck:	0	0.0%	PDO Collision:	1	100.0%
Taxi:	0	0.0%	Light Condition	#ACC	%
Minivan:	0	0.0%	Daylight:	1	100.0%
Police/Emergency Vehicle:	0	0.0%	Dawn/Dusk:	0	0.0%
Motorcycle/Moped:	0	0.0%	Dark(Lighted):	0	0.0%
Bicycle:	0	0.0%	Dark(Not Lighted):	0	0.0%
Fixed Object:	0	0.0%	Dark(Unknown Lighting):	0	0.0%
Unspecified:	2	100.0%	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:	0	0.0%	In Crosswalk against Signal:	0	0.0%
Driver: Electronic Device:	0	0.0%	In Crosswalk no Signal:	0	0.0%
Driver: Others:	0	0.0%	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:	2	100.0%	Unspecified:	0	0.0%

1 Records are not approved as of 9/15/2013 9:03:20 PM