



District Department of Transportation

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

4200 Block Van Ness Street NW

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
2	202	3	3E	Proposed	4200 Block Van Ness Street Northwest Westbound



The *proposed* speed camera will be located in Ward 3 at the 4200 block of Van Ness Street Northwest in the westbound direction. Van Ness Street runs from just east of Connecticut Avenue Northwest to the east and 52nd Street Northwest to the west. The posted speed limit is 25 MPH.

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District Department of Transportation

4200 Block Van Ness Street NW

Field Assessment Summary

Van Ness Street is assumed to run in an east-west direction, and is classified as collector road. Van Ness Street has one travel lane in each direction. This site has the following characteristics:

- This is a residential area with houses and driveways.
- There is one school in the area: National Presbyterian School.
- There is sidewalk and on-street parking on both sides of the street. There is a slope downgrade westbound.
- There are transverse pavement markings on the roadway.
- There is a crosswalk at 42nd Street.



Looking Westbound

Speed Data Analysis

Posted Speed Limit (MPH)	25
Mean Speed (MPH)	25
85th Percentile Speed (MPH)	30
10 MPH Pace Speed (MPH)	22-31
ADT	2,186

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District Department of Transportation

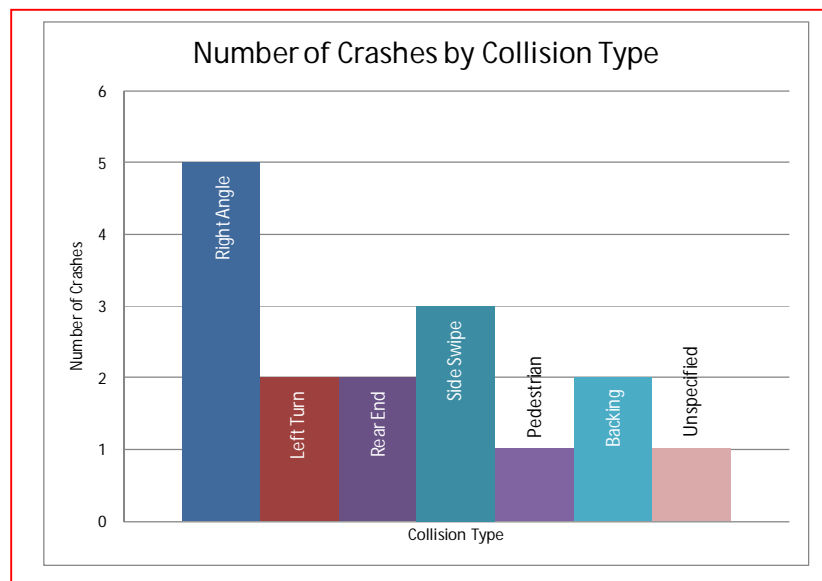
4200 Block Van Ness Street NW

The mean speed is equal to the posted speed limit 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 were a total of 16 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 type of collision at this location was Right Angle with five crashes. The other collision types had three crashes or less. Furthermore, this site experienced six injury-related crashes.

Severity			Weather			Surface condition			Light Condition		
Total	16										
Fatal	0	0.0%	Clear	11	68.8%	Dry	11	68.8%	Day	11	68.8%
Injury	6	37.5%	Rain	3	18.8%	Wet	4	25.0%	Night	3	18.8%
Taxi	1	6.3%	Snow	1	6.3%	Snow/Ice	1	6.3%			
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:

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District Department of Transportation

4200 Block Van Ness Street NW

1. Speed Data – The 85th percentile speed is higher than the posted speed limit at this location.
2. Crash Data – This location experienced six injury-related crashes.
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 is one school in the area: National Presbyterian School.
 - c. There are multiple bus stops in the area which generate pedestrian activity.
 - d. There is on-street parking on both sides of the street.

Due to the speed data analysis, the number of injury-related crashes, 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

4200 block of Van Ness St NW WB Speed

WB

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	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
04:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00	0	3	1	3	0	0	0	0	0	0	0	0	0	0	7
06:00	3	4	8	6	2	2	0	0	0	0	0	0	0	0	25
07:00	7	8	29	31	5	0	0	0	0	0	0	0	0	0	80
08:00	7	18	43	30	2	0	0	0	0	0	0	0	0	0	100
09:00	2	8	44	39	11	0	0	0	0	0	0	0	0	0	104
10:00	1	9	42	30	12	2	0	0	0	0	0	0	0	0	96
11:00	3	7	30	48	15	5	0	0	0	0	0	0	0	0	108
12 PM	2	3	25	62	36	6	0	0	0	0	0	0	0	0	134
13:00	0	3	24	49	14	4	0	0	0	0	0	0	0	0	94
14:00	5	11	29	45	24	4	0	0	0	0	0	0	0	0	118
15:00	4	11	64	73	17	3	0	0	0	0	0	0	0	0	172
16:00	11	18	80	77	23	0	1	0	0	0	0	0	0	0	210
17:00	10	24	97	128	47	7	0	0	0	0	0	0	0	0	313
18:00	6	10	58	117	34	5	1	0	0	0	0	0	0	0	231
19:00	2	3	25	64	43	4	0	0	0	0	0	0	0	0	141
20:00	1	0	15	29	29	8	1	0	0	0	0	0	0	0	83
21:00	2	10	45	10	1	0	0	0	0	0	0	0	0	0	68
22:00	12	19	18	2	0	0	0	0	0	0	0	0	0	0	51
23:00	3	9	8	3	0	0	0	0	0	0	0	0	0	0	23
Total	82	178	687	846	315	50	3	0	0	0	0	0	0	0	2161

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

4200 block of Van Ness St NW WB Speed

WB																
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	1	6	6	0	0	0	0	0	0	0	0	0	0	0	0	13
01:00	0	4	1	1	0	0	0	0	0	0	0	0	0	0	0	6
02:00	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	4
03:00	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2
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	1	13	10	1	0	0	0	0	0	0	0	0	0	0	0	25
Grand Total	83	191	697	847	315	50	3	0	0	0	0	0	0	0	0	2186

15th Percentile : 17 MPH
50th Percentile : 25 MPH
85th Percentile : 30 MPH
95th Percentile : 34 MPH

Stats
Mean Speed(Average) : 25 MPH
10 MPH Pace Speed : 22-31 MPH
Number in Pace : 1328
Percent in Pace : 60.8%
Number of Vehicles > 25 MPH : 1114
Percent of Vehicles > 25 MPH : 51.0%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

4200 block of Van Ness St NW WB 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	*	37	3	*	*	*	3	37
12:15	*	35	2	*	*	*	2	35
12:30	*	35	3	*	*	*	3	35
12:45	*	27	5	*	*	*	5	27
01:00	*	21	2	*	*	*	2	21
01:15	*	21	3	*	*	*	3	21
01:30	*	23	1	*	*	*	1	23
01:45	*	29	0	*	*	*	0	29
02:00	*	28	1	*	*	*	1	28
02:15	*	25	0	*	*	*	0	25
02:30	*	32	0	*	*	*	0	32
02:45	*	33	3	*	*	*	3	33
03:00	*	25	2	*	*	*	2	25
03:15	1	45	*	*	*	*	1	45
03:30	0	55	*	*	*	*	0	55
03:45	1	47	*	*	*	*	1	47
04:00	0	46	*	*	*	*	0	46
04:15	1	62	*	*	*	*	1	62
04:30	0	45	*	*	*	*	0	45
04:45	0	57	*	*	*	*	0	57
05:00	1	71	*	*	*	*	1	71
05:15	0	87	*	*	*	*	0	87
05:30	2	71	*	*	*	*	2	71
05:45	4	84	*	*	*	*	4	84
06:00	5	70	*	*	*	*	5	70
06:15	4	66	*	*	*	*	4	66
06:30	9	57	*	*	*	*	9	57
06:45	7	38	*	*	*	*	7	38
07:00	14	44	*	*	*	*	14	44
07:15	11	45	*	*	*	*	11	45
07:30	21	30	*	*	*	*	21	30
07:45	34	22	*	*	*	*	34	22
08:00	32	23	*	*	*	*	32	23
08:15	26	18	*	*	*	*	26	18
08:30	20	20	*	*	*	*	20	20
08:45	22	22	*	*	*	*	22	22
09:00	27	22	*	*	*	*	27	22
09:15	26	17	*	*	*	*	26	17
09:30	24	18	*	*	*	*	24	18
09:45	27	11	*	*	*	*	27	11
10:00	24	14	*	*	*	*	24	14
10:15	21	16	*	*	*	*	21	16
10:30	20	15	*	*	*	*	20	15
10:45	31	6	*	*	*	*	31	6
11:00	28	5	*	*	*	*	28	5
11:15	17	4	*	*	*	*	17	4
11:30	27	10	*	*	*	*	27	10
11:45	36	4	*	*	*	*	36	4
Total	523	1638	25	0	0	0	548	1638
Combined Total	2161		25		0		2186	
Peak	07:30	05:00	12:00				07:30	05:00
Vol.	113	313	13				113	313
P.H.F.	0.831	0.899	0.650				0.831	0.899
ADT		ADT 2,186	AADT 2,186					

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

Corridor: VAN NESS ST,NW From FORTY THIRD ST,NW TO NEBRASKA 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:	16	Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Fatalities:	0	Right Angle:	5	31.3%	Fixed Object:	0	0.0%
Total Number of Injuries:	7	Left Turn:	2	12.5%	Ran Off Road:	0	0.0%
Total Number of Disabling Injuries:	0	Right Turn:	0	0.0%	Ped. Involved:	1	6.3%
Total Number of NonDisabling Injuries:	0	Rear End:	2	12.5%	Backing:	2	12.5%
Total Number of Pedestrians Involved:	1	Side Swiped:	3	18.8%	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:	1	6.3%

Time of Day	#ACC	%	Day o fweek	#ACC	%
07:30 ~ 09:30:	2	12.5%	Sunday:	1	6.3%
09:30 ~ 11:30:	2	12.5%	Monday:	3	18.8%
11:30 ~ 13:30:	3	18.8%	Tuesday:	3	18.8%
13:30 ~ 16:00:	2	12.5%	Wednesday:	3	18.8%
16:00 ~18:30:	4	25.0%	Thursday:	2	12.5%
18:30 ~ 07:30:	3	18.8%	Friday:	1	6.3%
Unspecified:	0	0.0%	Saturday:	3	18.8%

Weather Condition	#ACC	%	Surface Condition	#ACC	%
Clear:	11	68.8%	Dry:	11	68.8%
Rain:	3	18.8%	Wet:	4	25.0%
Snow:	1	6.3%	Snow/Ice:	1	6.3%
Sleet/Hail:	0	0.0%	Slush:	0	0.0%
Fog/Mist:	1	6.3%	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:	28	87.5%	Fatal Collision:	0	0.0%
Bus:	0	0.0%	Injury Collision:	6	37.5%
Truck:	1	3.1%	PDO Collision:	10	62.5%
Taxi:	1	3.1%			
Minivan:	0	0.0%	Light Condition	#ACC	%
Police/Emergency Vehicle:	1	3.1%	Daylight:	11	68.8%
Motorcycle/Moped:	0	0.0%	Dawn/Dusk:	1	6.3%
Bicycle:	0	0.0%	Dark(Lighted):	3	18.8%
Fixed Object:	0	0.0%	Dark(Not Lighted):	0	0.0%
Unspecified:	1	3.1%	Dark(Unknown Lighting):	0	0.0%
			Unspecified:	1	6.3%

Contributing Factor	#VEH	%	Pedestrian Actions	#ACC	%
Driver: Speed:	0	0.0%	In Crosswalk with Signal:	1	100.0%
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:	10	31.3%	In Unmarked Crosswalk:	0	0.0%
Vehicle:	0	0.0%	Not in Crosswalk:	0	0.0%
Roadway:	1	3.1%	From Between Parked Cars:	0	0.0%
Unspecified:	21	65.6%	Unspecified:	0	0.0%

8 Records are not approved as of 9/15/2013 9:12:26 PM