



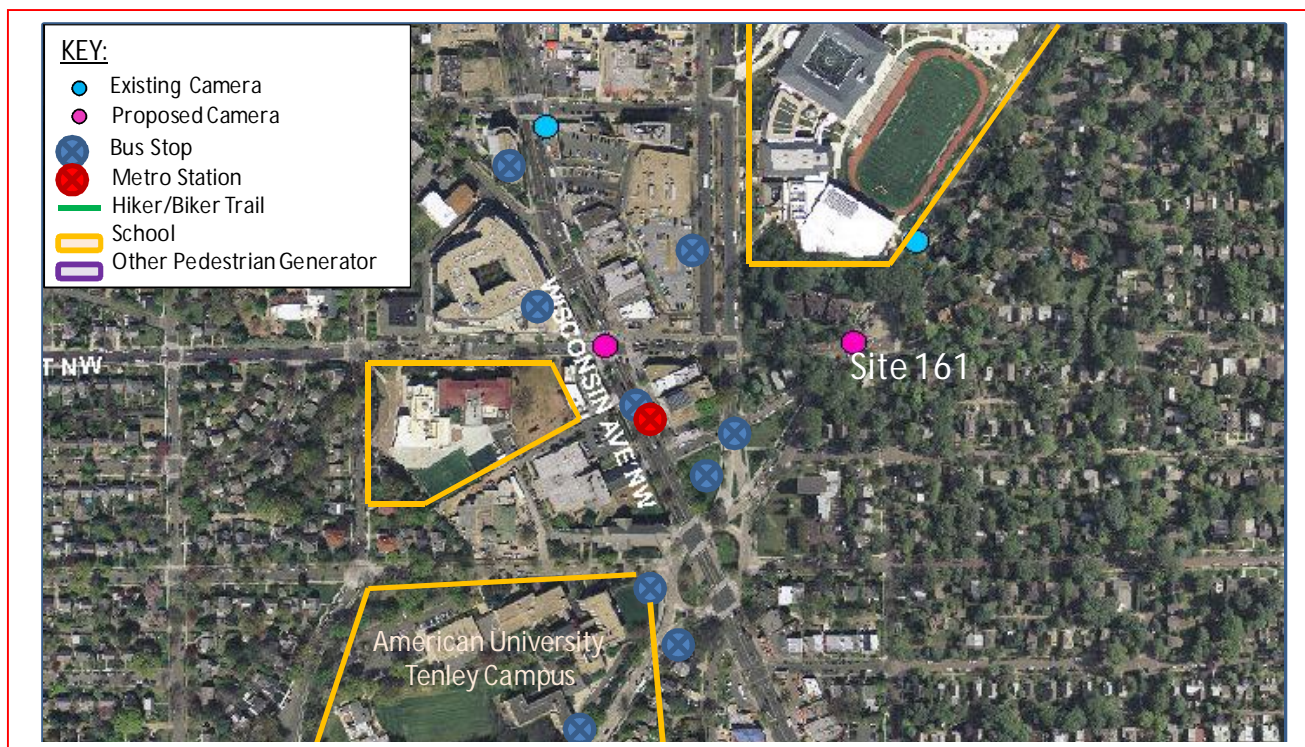
District Department of Transportation

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

4500 Block Nebraska Avenue NW

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
2	202	3	3F	Proposed	4500 Block Nebraska Avenue Northwest



The *proposed* speed camera will be located in Ward 3 at the 4500 block of Nebraska Avenue Northwest. 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 30 MPH.

W3 - 287





District Department of Transportation

4500 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 two travel lanes in each direction. This site has the following characteristics:

- This is a residential area with houses on the south side of the street.
- Woodrow Wilson High School is on the north side of the street. There are two other schools in the area: American University – Tenley Campus and Janney Elementary School.
- The Tenleytown Metro Station is also in the area.
- There is sidewalk and on-street parking on both sides of the street.
- The pavement is in good condition and there is curb and gutter with drainage inlets.



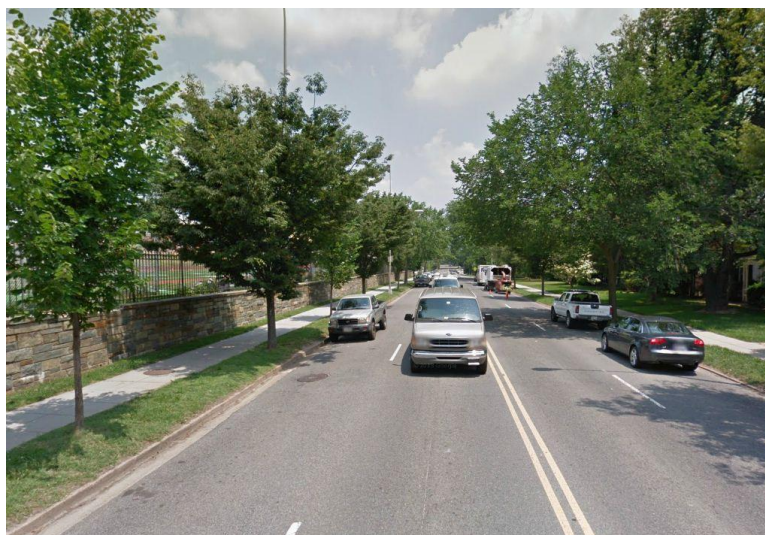
Looking Southbound

W3 - 288



District Department of Transportation

4500 Block Nebraska Avenue NW



Looking Northbound

Speed Data Analysis

Direction	Northeast	Southwest
Posted Speed Limit (MPH)	30	30
Mean Speed (MPH)	23	23
85th Percentile Speed (MPH)	31	29
10 MPH Pace Speed (MPH)	24-33	21-30
Sample Size	8,232	6,837
ADT	15,069	

The mean speed is lower than the posted speed limit by 7 MPH in both directions. The 85th percentile speed is lower than the posted speed by 1 MPH in the SW direction and higher than the posted speed by 1 MPH in the NE direction 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 11 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 collision at this location were Right Angle (2 crashes), Ran off road (2 crashes), and Pedestrian Involved (2 crashes). Each of the other collision types had one crash or less. Furthermore, this site experienced six injury-related-crashes.

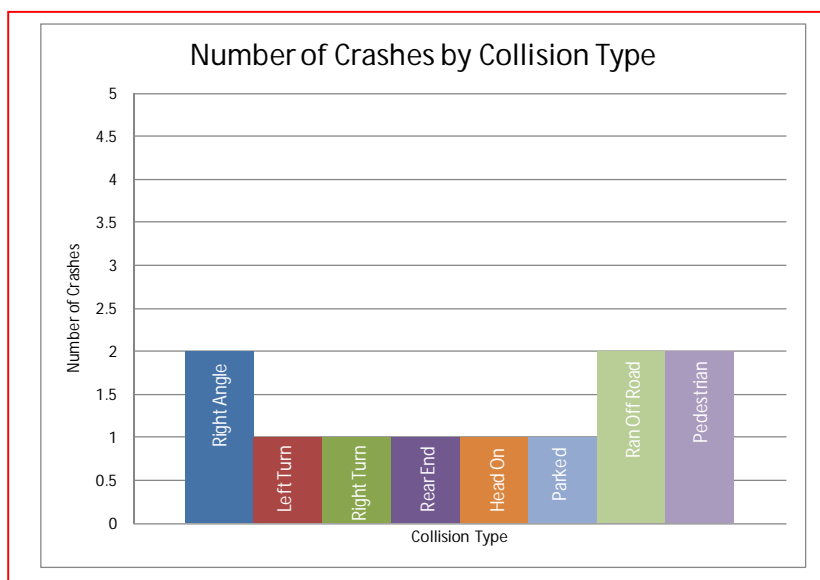
W3 - 289



District Department of Transportation

4500 Block Nebraska Avenue NW

Severity			Weather			Surface condition			Light Condition		
Total	11										
Fatal	0	0.0%	Clear	9	81.8%	Dry	9	81.8%	Day	6	54.5%
Injury	6	54.5%	Rain	2	18.2%	Wet	2	18.2%	Night	5	45.5%
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 speed data analysis shows travel speeds being lower than the posted speed limit in the southwest direction and higher than the posted speed limit in the northeast direction.
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 on the south side of the street.
 - b. There are three schools in the area: Woodrow Wilson High School, American University – Tenley Campus and Janney Elementary School.
 - c. The proposed site is located directly in front of Wilson High School, within a school zone.
 - d. There are multiple bus stops and one metro station in the area which generate pedestrian activity.

W3 - 290



District Department of Transportation

4500 Block Nebraska Avenue NW

- e. There is on-street parking on both sides of the street.

Although the speed data analysis showed the mean and 85th percentile speeds to be lower than the posted speed limit in the southwest direction, due to the speed data analysis in the northeast direction, the elevated number of injury-related crashes, the specific site characteristics, the proximity of the site directly in front of Wilson High School, and the other pedestrian generators, there is a nexus between traffic safety and the speed camera at this location.

W3 - 291

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

4500 Block of Nebraska Avenue NW Speed

SWB	Start	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total
Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999		
11/06/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	5	0	4	5	0	1	0	0	0	0	0	0	0	0	0	15
03:00	0	4	7	11	6	3	1	0	0	0	0	0	0	0	0	32
04:00	0	1	9	14	27	2	1	0	0	0	0	0	0	0	0	54
05:00	1	0	21	99	62	21	4	2	0	0	0	0	0	0	0	210
06:00	29	61	198	157	39	5	1	0	0	0	0	0	0	0	0	490
07:00	53	41	210	284	55	4	1	0	0	0	0	0	0	0	0	648
08:00	82	64	239	175	35	3	1	0	0	0	0	0	0	0	0	599
09:00	90	61	199	183	21	3	0	0	0	0	0	0	0	0	0	557
10:00	25	17	118	192	53	14	0	0	0	0	0	0	0	0	0	419
11:00	36	12	138	146	30	2	0	1	0	0	0	0	0	0	0	365
12 PM	33	32	132	124	48	5	1	0	0	0	0	0	0	0	0	375
13:00	35	23	97	131	37	4	1	1	0	0	0	0	0	0	0	329
14:00	37	43	147	136	33	1	0	0	0	0	0	0	0	0	0	397
15:00	35	18	168	159	38	4	1	0	0	0	0	0	0	0	0	423
16:00	26	13	146	208	54	6	0	0	0	0	0	0	0	0	0	453
17:00	35	14	167	173	31	0	1	0	0	0	0	0	0	0	0	421
18:00	17	34	155	193	36	3	0	0	0	0	0	0	0	0	0	438
19:00	23	52	130	75	14	1	0	0	0	0	0	0	0	0	0	295
20:00	10	9	38	28	3	0	0	0	0	0	0	0	0	0	0	88
21:00	18	18	62	42	1	0	0	0	0	0	0	0	0	0	0	141
22:00	0	3	11	0	0	0	0	0	0	0	0	0	0	0	0	14
23:00	3	3	11	12	2	1	0	0	0	0	0	0	0	0	0	32
Total	593	523	2407	2547	625	83	13	4	0	0	0	0	0	0	0	6795

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

4500 Block of Nebraska Avenue NW Speed

SWB															
Start	1	16	21	26	31	36	41	46	51	56	61	66	71	76	
Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/07/13	1	1	6	20	2	0	0	0	0	0	0	0	0	0	30
01:00	1	1	3	6	1	0	0	0	0	0	0	0	0	0	12
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	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	2	2	9	26	3	0	0	0	0	0	0	0	0	0	42

Grand Total	595	525	2416	2573	628	83	13	4	0	0	0	0	0	0	6837
-------------	-----	-----	------	------	-----	----	----	---	---	---	---	---	---	---	------

15th Percentile : 13 MPH
50th Percentile : 23 MPH
85th Percentile : 29 MPH
95th Percentile : 32 MPH

Stats
Mean Speed(Average) : 23 MPH
10 MPH Pace Speed : 21-30 MPH
Number in Pace : 4087
Percent in Pace : 59.8%
Number of Vehicles > 30 MPH : 868
Percent of Vehicles > 30 MPH : 12.7%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

4500 Block of Nebraska Avenue NW Speed

NEB															
Start	1	16	21	26	31	36	41	46	51	56	61	66	71	76	
Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/06/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	1	0	1	6	2	1	0	0	0	0	0	0	0	0	11
03:00	0	1	1	2	8	1	0	0	0	0	0	0	0	0	13
04:00	3	0	1	5	4	1	1	0	0	0	0	0	0	0	15
05:00	2	1	5	23	19	7	0	0	0	0	0	0	0	0	57
06:00	10	3	5	47	53	24	3	1	0	0	0	0	0	0	146
07:00	48	3	20	100	163	47	7	1	0	0	0	0	0	0	389
08:00	63	1	15	139	129	31	6	0	0	0	0	0	0	0	384
09:00	43	4	28	109	110	9	3	0	0	0	0	0	0	0	306
10:00	32	3	37	130	91	13	0	0	0	0	0	0	0	0	306
11:00	38	11	77	148	71	15	2	0	0	0	0	0	0	0	362
12 PM	34	3	90	208	93	13	1	0	0	0	0	0	0	0	442
13:00	40	13	101	198	81	13	1	0	0	0	0	0	0	0	447
14:00	51	15	133	244	96	12	5	0	0	0	0	0	0	0	556
15:00	40	13	171	350	140	21	3	0	0	0	0	0	0	0	738
16:00	44	1	112	328	157	28	4	1	0	0	0	0	0	0	675
17:00	55	16	195	354	126	18	5	0	0	0	0	0	0	0	769
18:00	26	13	169	284	119	3	2	0	0	0	0	0	0	0	616
19:00	23	59	238	179	60	7	0	0	0	0	0	0	0	0	566
20:00	317	23	66	74	20	3	0	0	0	0	0	0	0	0	503
21:00	121	11	81	111	34	6	1	0	1	0	0	0	0	0	366
22:00	308	4	9	4	2	0	0	0	0	0	0	0	0	0	327
23:00	69	4	11	38	31	7	4	1	0	0	0	0	0	0	165
Total	1368	202	1566	3081	1609	280	48	4	1	0	0	0	0	0	8159

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

4500 Block of Nebraska Avenue NW Speed

NEB															
Start	1	16	21	26	31	36	41	46	51	56	61	66	71	76	
Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/07/13	0	1	5	23	22	6	0	1	0	0	0	0	0	0	58
01:00	0	0	6	3	5	1	0	0	0	0	0	0	0	0	15
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	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	0	1	11	26	27	7	0	1	0	0	0	0	0	0	73

Grand Total	1368	203	1577	3107	1636	287	48	5	1	0	0	0	0	0	8232
-------------	------	-----	------	------	------	-----	----	---	---	---	---	---	---	---	------

15th Percentile : 8 MPH
50th Percentile : 25 MPH
85th Percentile : 31 MPH
95th Percentile : 35 MPH

Stats
Mean Speed(Average) : 23 MPH
10 MPH Pace Speed : 24-33 MPH
Number in Pace : 4121
Percent in Pace : 50.1%
Number of Vehicles > 30 MPH : 1880
Percent of Vehicles > 30 MPH : 22.8%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

4500 Block of Nebraska Avenue NW Volume

Start Time	06-Nov-13 Wed	SWB		NEB		Combined		07-Nov- Thu	SWB		NEB		Combined	
		A.M.	P.M.	A.M.	P.M.	A.M.	P.M.		A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00		*	86	*	111	*	197		15	*	21	*	36	*
12:15		*	106	*	108	*	214		8	*	15	*	23	*
12:30		*	94	*	114	*	208		3	*	14	*	17	*
12:45		*	89	*	109	*	198		4	*	8	*	12	*
01:00		*	83	*	111	*	194		6	*	6	*	12	*
01:15		*	79	*	116	*	195		4	*	6	*	10	*
01:30		*	86	*	101	*	187		2	*	3	*	5	*
01:45		*	81	*	119	*	200		0	*	0	*	0	*
02:00		0	88	0	122	0	210		0	*	0	*	0	*
02:15		6	88	6	139	12	227		*	*	*	*	*	*
02:30		8	109	3	129	11	238		*	*	*	*	*	*
02:45		1	112	2	166	3	278		*	*	*	*	*	*
03:00		8	106	4	179	12	285		*	*	*	*	*	*
03:15		7	99	2	186	9	285		*	*	*	*	*	*
03:30		12	116	4	192	16	308		*	*	*	*	*	*
03:45		5	102	3	181	8	283		*	*	*	*	*	*
04:00		12	102	5	193	17	295		*	*	*	*	*	*
04:15		7	108	4	176	11	284		*	*	*	*	*	*
04:30		13	128	2	156	15	284		*	*	*	*	*	*
04:45		22	115	4	150	26	265		*	*	*	*	*	*
05:00		32	112	6	199	38	311		*	*	*	*	*	*
05:15		37	106	16	169	53	275		*	*	*	*	*	*
05:30		54	107	11	199	65	306		*	*	*	*	*	*
05:45		87	96	24	202	111	298		*	*	*	*	*	*
06:00		91	118	29	170	120	288		*	*	*	*	*	*
06:15		120	101	31	164	151	265		*	*	*	*	*	*
06:30		136	115	33	140	169	255		*	*	*	*	*	*
06:45		143	104	53	142	196	246		*	*	*	*	*	*
07:00		158	76	86	187	244	263		*	*	*	*	*	*
07:15		176	83	89	135	265	218		*	*	*	*	*	*
07:30		180	68	111	122	291	190		*	*	*	*	*	*
07:45		134	68	103	122	237	190		*	*	*	*	*	*
08:00		149	65	103	119	252	184		*	*	*	*	*	*
08:15		151	23	99	140	250	163		*	*	*	*	*	*
08:30		155	0	102	126	257	126		*	*	*	*	*	*
08:45		144	0	80	118	224	118		*	*	*	*	*	*
09:00		146	4	74	118	220	122		*	*	*	*	*	*
09:15		144	55	85	110	229	165		*	*	*	*	*	*
09:30		125	34	76	67	201	101		*	*	*	*	*	*
09:45		142	48	71	71	213	119		*	*	*	*	*	*
10:00		123	14	89	88	212	102		*	*	*	*	*	*
10:15		128	0	75	98	203	98		*	*	*	*	*	*
10:30		70	0	75	75	145	75		*	*	*	*	*	*
10:45		98	0	67	66	165	66		*	*	*	*	*	*
11:00		107	0	77	56	184	56		*	*	*	*	*	*
11:15		86	14	103	40	189	54		*	*	*	*	*	*
11:30		93	12	87	36	180	48		*	*	*	*	*	*
11:45		79	6	95	33	174	39		*	*	*	*	*	*
Total		3389	3406	1989	6170	5378	9576		42	0	73	0	115	0
Day Total		6795		8159		14954			42		73		115	
% Total		22.7%	22.8%	13.3%	41.3%				36.5%	0.0%	63.5%	0.0%		
Peak		06:45	04:15	07:30	05:00	07:15	05:00		12:00		12:00		12:00	
Vol.		657	463	416	769	1045	1190		30		58		88	
P.H.F.		0.913	0.904	0.937	0.952	0.898	0.957		0.500		0.690		0.611	
ADT		ADT 15,069		AADT 15,069										

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

Corridor: NEBRASKA AVE,NW From THIRTY NINTH ST,NW TO GRANT RD,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:	11	Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Fatalities:	0	Right Angle:	2	18.2%	Fixed Object:	0	0.0%
Total Number of Injuries:	8	Left Turn:	1	9.1%	Ran Off Road:	2	18.2%
Total Number of Disabling Injuries:	1	Right Turn:	1	9.1%	Ped. Involved:	2	18.2%
Total Number of NonDisabling Injuries:	1	Rear End:	1	9.1%	Backing:	0	0.0%
Total Number of Pedestrians Involved:	2	Side Swiped:	0	0.0%	Non Collision:	0	0.0%
Total Number of Bicycles Involved:	0	Head On:	1	9.1%	Under/Over Ride:	0	0.0%
Total Number of Motorcycles Involved:	0	Parked:	1	9.1%	Unspecified:	0	0.0%

Time of Day	#ACC	%	Day o fweek	#ACC	%
07:30 ~ 09:30:	0	0.0%	Sunday:	2	18.2%
09:30 ~ 11:30:	3	27.3%	Monday:	0	0.0%
11:30 ~ 13:30:	1	9.1%	Tuesday:	1	9.1%
13:30 ~ 16:00:	1	9.1%	Wednesday:	4	36.4%
16:00 ~18:30:	1	9.1%	Thursday:	1	9.1%
18:30 ~ 07:30:	5	45.5%	Friday:	2	18.2%
Unspecified:	0	0.0%	Saturday:	1	9.1%

Weather Condition	#ACC	%	Surface Condition	#ACC	%
Clear:	9	81.8%	Dry:	9	81.8%
Rain:	2	18.2%	Wet:	2	18.2%
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:	17	7.4%	Fatal Collision:	0	0.0%
Bus:	0	0.0%	Injury Collision:	6	54.5%
Truck:	2	0.9%	PDO Collision:	5	45.5%
Taxi:	0	0.0%	Light Condition	#ACC	%
Minivan:	0	0.0%	Daylight:	6	54.5%
Police/Emergency Vehicle:	1	0.4%	Dawn/Dusk:	0	0.0%
Motorcycle/Moped:	0	0.0%	Dark(Lighted):	5	45.5%
Bicycle:	0	0.0%	Dark(Not Lighted):	0	0.0%
Fixed Object:	0	0.0%	Dark(Unknown Lighting):	0	0.0%
Unspecified:	209	91.3%	Unspecified:	0	0.0%

Contributing Factor	#VEH	%	Pedestrian Actions	#ACC	%
Driver: Speed:	0	0.0%	In Crosswalk with Signal:	1	50.0%
Driver: Alcohol/Drug:	1	0.4%	In Crosswalk against Signal:	0	0.0%
Driver: Electronic Device:	0	0.0%	In Crosswalk no Signal:	0	0.0%
Driver: Others:	9	3.9%	In Unmarked Crosswalk:	0	0.0%
Vehicle:	0	0.0%	Not in Crosswalk:	0	0.0%
Roadway:	0	0.0%	From Between Parked Cars:	1	50.0%
Unspecified:	219	95.6%	Unspecified:	0	0.0%

6 Records are not approved as of 9/15/2013 9:14:00 PM