



District Department of Transportation

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

Connecticut Avenue NW at Dupont Circle

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
2	208	2	2B	Proposed	Connecticut Avenue Northwest under Dupont Circle



This *proposed* speed camera location is located in Ward 2 at Connecticut Avenue Northwest under Dupont Circle. Connecticut Avenue runs between Western Avenue Northwest to the north and H Street Northwest to the south. The posted speed limit is 25 MPH.

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District Department of Transportation

Connecticut Avenue NW at Dupont Circle

Field Assessment Summary

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

- There are sidewalks with curb, gutter, and drainage inlets on both sides of street outside of the tunnel.
- There is a traffic signal and crosswalks with pedestrian signals at N Street and R Street.
- The existing pavement is in good condition and there is a downhill slope in both directions to low point below Dupont Circle
- There are three schools in this area, School for Friends, Emerson Preparatory School, and Ross Elementary School.

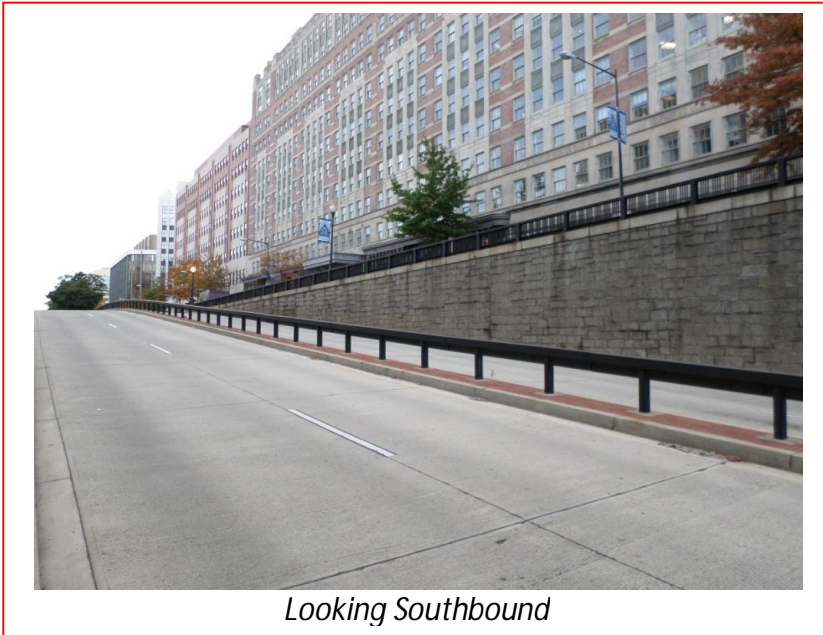


Looking Northbound



District Department of Transportation

Connecticut Avenue NW at Dupont Circle



Looking Southbound

Speed Data Analysis

Direction	NWB	SEB
Posted Speed Limit (MPH)	25	25
Mean Speed (MPH)	15	23
85th Percentile Speed (MPH)	21	28
10 MPH Pace Speed	10-19	20-29
Sample Size	7,325	7,277
ADT	14,602	

The mean speeds in both directions are lower than the posted speed limit. The 85th percentile speed is 4 MPH lower than the speed limit in the northwest-bound direction, and 3 MPH higher in the southeast-bound direction.

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 105 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 were Side Swipe (37 crashes) and

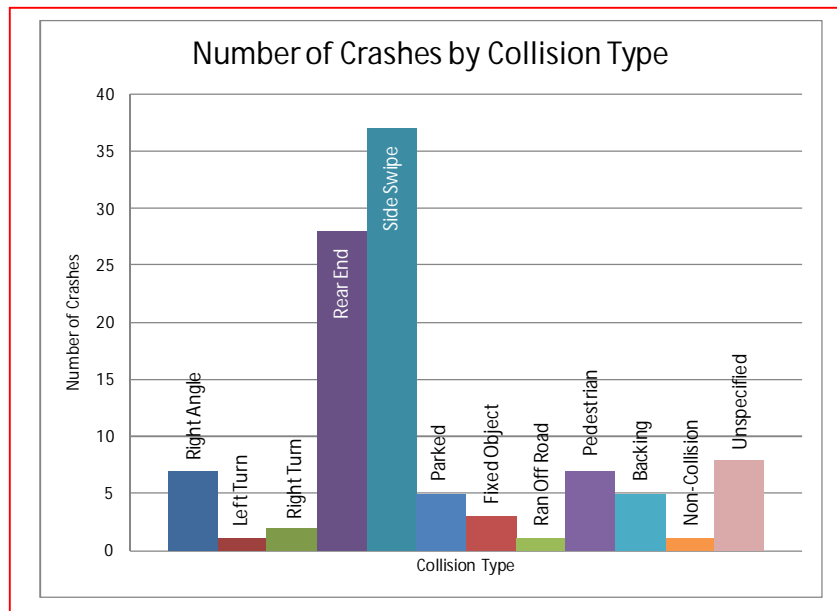


District Department of Transportation

Connecticut Avenue NW at Dupont Circle

Rear End (28 crashes). Furthermore, this site experienced a high frequency (21 crashes) of injury-related crashes.

Severity			Weather			Surface condition			Light Condition		
Total	105										
Fatal	1	1.0%	Clear	86	81.9%	Dry	91	86.7%	Day	54	51.4%
Injury	21	20.0%	Rain	9	8.6%	Wet	11	10.5%	Night	45	42.9%
Taxi	33	31.4%	Snow	1	1.0%	Snow/Ice	1	1.0%			
Bus	13	12.4%									



There were an elevated number of speed-related crashes at this location, including rear end and side swipe crashes. The AASHTO Highway Safety Manual lists “assuming the lead driver will go through a green or yellow light, but the lead driver stops” and “changing lanes to avoid a slowing or stopped vehicle”¹ as two errors leading to rear-end and sideswipe crashes. Both of these errors can be decreased with a decrease in travel speed.

Safety Nexus

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

¹ AASHTO Highway Safety Manual, 1st Edition, 2010; Volume 1, page 2-13



District Department of Transportation

Connecticut Avenue NW at Dupont Circle

1. Speed Data – The 85th percentile speed is higher than the posted speed limit in the southeast-bound direction at this location.
2. Crash Data – There was an elevated number of speed related crashes, including rear end and side swipe collisions, as well as a high frequency (21 crashes) of injury-related crashes.
3. Field Assessment – The following site characteristics suggest a need for a safer travel environment:
 - a. There are three schools in this area: School for Friends, Emerson Preparatory School, and Ross Elementary School.
 - b. There are multiple bus stops and one Metrorail station in the area which generate pedestrian activity.

Due to the speed data analysis, elevated number of speed related crashes, high frequency of injury-related crashes, the specific site characteristics, proximity to school zones, and other 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

Connecticut Ave NW under Dupont Circle 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
11/12/13	5	6	1	0	0	0	0	0	0	0	0	0	0	0	12
01:00	2	8	9	1	0	0	0	0	0	0	0	0	0	0	20
02:00	3	6	10	5	0	0	0	0	0	0	0	0	0	0	24
03:00	0	1	5	2	1	0	0	0	0	0	0	0	0	0	9
04:00	4	3	5	2	1	0	0	0	0	0	0	0	0	0	15
05:00	7	23	29	16	2	0	0	0	0	0	0	0	0	0	77
06:00	26	95	57	17	7	0	0	0	0	0	0	0	0	0	202
07:00	97	158	70	38	15	0	0	0	0	0	0	0	0	0	378
08:00	83	162	88	16	7	0	0	0	0	0	0	0	0	0	356
09:00	89	178	57	16	1	0	0	0	0	0	0	0	0	0	341
10:00	59	135	108	30	4	0	0	0	0	0	0	0	0	0	336
11:00	78	134	102	28	4	0	0	0	0	0	0	0	0	0	346
12 PM	69	138	110	35	4	0	0	0	0	0	0	0	0	0	356
13:00	51	103	107	40	5	0	0	0	0	0	0	0	0	0	306
14:00	83	124	143	31	8	0	0	0	0	0	0	0	0	0	389
15:00	86	132	138	27	5	0	0	0	0	0	0	0	0	0	388
16:00	119	195	177	32	0	0	0	0	0	0	0	0	0	0	523
17:00	264	292	100	13	0	0	0	0	0	0	0	0	0	0	669
18:00	257	292	88	10	0	0	0	0	0	0	0	0	0	0	647
19:00	288	129	49	13	1	0	0	0	0	0	0	0	0	0	480
20:00	234	97	71	10	1	0	0	0	0	0	0	0	0	0	413
21:00	262	124	65	14	3	0	0	0	0	0	0	0	0	0	468
22:00	128	95	80	27	3	0	0	0	0	0	0	0	0	0	333
23:00	46	55	49	14	2	0	0	0	0	0	0	0	0	0	166
Total	2340	2685	1718	437	74	0	0	0	0	0	0	0	0	0	7254

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

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Connecticut Ave NW under Dupont Circle 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
11/13/13	25	26	15	5	0	0	0	0	0	0	0	0	0	0	71
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	25	26	15	5	0	0	0	0	0	0	0	0	0	0	71
Grand Total	2365	2711	1733	442	74	0	0	0	0	0	0	0	0	0	7325

15th Percentile : 6 MPH
 50th Percentile : 14 MPH
 85th Percentile : 21 MPH
 95th Percentile : 25 MPH

Stats
 Mean Speed(Average) : 15 MPH
 10 MPH Pace Speed : 10-19 MPH
 Number in Pace : 3557
 Percent in Pace : 48.6%
 Number of Vehicles > 25 MPH : 465
 Percent of Vehicles > 25 MPH : 6.3%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

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Connecticut Ave NW under Dupont Circle Speed

SEB	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	
11/12/13	0	3	1	1	0	0	0	0	0	0	0	0	0	0	5
01:00	1	7	13	8	3	0	0	0	0	0	0	0	0	0	32
02:00	1	2	7	2	0	0	0	0	0	0	0	0	0	0	12
03:00	0	3	8	2	2	0	0	0	0	0	0	0	0	0	15
04:00	0	0	12	14	3	0	1	0	0	0	0	0	0	0	30
05:00	1	6	29	39	13	3	1	0	0	0	0	0	0	0	92
06:00	9	11	73	93	35	5	1	1	0	0	0	0	0	0	228
07:00	12	17	159	352	81	6	0	0	0	0	0	0	0	0	627
08:00	50	56	377	356	59	3	0	0	0	0	0	0	0	0	901
09:00	38	50	352	287	44	6	0	0	0	0	0	0	0	0	777
10:00	16	39	233	170	23	2	0	0	0	0	0	0	0	0	483
11:00	14	63	232	91	15	3	1	0	0	0	0	0	0	0	419
12 PM	15	76	233	88	9	0	0	0	0	0	0	0	0	0	421
13:00	15	50	214	87	7	2	0	0	0	0	0	0	0	0	375
14:00	6	73	166	71	11	3	2	0	0	0	0	0	0	0	332
15:00	11	69	187	72	16	2	0	0	0	0	0	0	0	0	357
16:00	18	87	176	87	18	5	0	0	0	0	0	0	0	0	391
17:00	21	107	195	80	18	0	0	0	0	0	0	0	0	0	421
18:00	18	59	145	38	10	0	0	0	0	0	0	0	0	0	270
19:00	14	75	127	26	3	0	0	0	0	0	0	0	0	0	245
20:00	13	61	123	49	8	0	0	0	0	0	0	0	0	0	254
21:00	6	52	107	47	5	1	0	0	0	0	0	0	0	0	218
22:00	12	40	123	42	3	0	0	0	0	0	0	0	0	0	220
23:00	3	33	45	17	2	0	0	0	0	0	0	0	0	0	100
Total	294	1039	3337	2119	388	41	6	1	0	0	0	0	0	0	7225

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

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Connecticut Ave NW under Dupont Circle Speed

SEB	1	16	21	26	31	36	41	46	51	56	61	66	71	76	
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/13/13	0	9	33	9	1	0	0	0	0	0	0	0	0	0	52
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	9	33	9	1	0	0	0	0	0	0	0	0	0	52
Grand Total	294	1048	3370	2128	389	41	6	1	0	0	0	0	0	0	7277

15th Percentile : 15 MPH
 50th Percentile : 22 MPH
 85th Percentile : 28 MPH
 95th Percentile : 31 MPH

Stats
 Mean Speed(Average) : 23 MPH
 10 MPH Pace Speed : 20-29 MPH
 Number in Pace : 4636
 Percent in Pace : 63.7%
 Number of Vehicles > 25 MPH : 2458
 Percent of Vehicles > 25 MPH : 33.8%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

Connecticut Ave NW under Dupont Circle Volume

Start Time	12-Nov-13		NWB		SEB		Combined		13-Nov- Wed	NWB		SEB		Combined		
	Tue		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		*		113	*		105	*	218		28	*	24	*	52	*
12:15		*		66	*		112	*	178		21	*	20	*	41	*
12:30		*		81	*		118	*	199		22	*	8	*	30	*
12:45			12	96		5	86	17	182		*	*	*	*	*	*
01:00			6	79		10	100	16	179		*	*	*	*	*	*
01:15			5	78		11	91	16	169		*	*	*	*	*	*
01:30			2	64		7	85	9	149		*	*	*	*	*	*
01:45			7	85		4	99	11	184		*	*	*	*	*	*
02:00			5	104		7	104	12	208		*	*	*	*	*	*
02:15			11	103		2	83	13	186		*	*	*	*	*	*
02:30			4	101		2	80	6	181		*	*	*	*	*	*
02:45			4	81		1	65	5	146		*	*	*	*	*	*
03:00			0	108		2	77	2	185		*	*	*	*	*	*
03:15			3	83		2	91	5	174		*	*	*	*	*	*
03:30			1	116		5	84	6	200		*	*	*	*	*	*
03:45			5	81		6	105	11	186		*	*	*	*	*	*
04:00			4	130		7	114	11	244		*	*	*	*	*	*
04:15			3	121		3	81	6	202		*	*	*	*	*	*
04:30			5	142		7	99	12	241		*	*	*	*	*	*
04:45			3	130		13	97	16	227		*	*	*	*	*	*
05:00			14	159		11	117	25	276		*	*	*	*	*	*
05:15			11	201		28	110	39	311		*	*	*	*	*	*
05:30			20	161		24	105	44	266		*	*	*	*	*	*
05:45			32	148		29	89	61	237		*	*	*	*	*	*
06:00			34	126		29	53	63	179		*	*	*	*	*	*
06:15			46	183		58	74	104	257		*	*	*	*	*	*
06:30			58	188		58	77	116	265		*	*	*	*	*	*
06:45			64	150		83	66	147	216		*	*	*	*	*	*
07:00			65	131		106	52	171	183		*	*	*	*	*	*
07:15			92	131		146	64	238	195		*	*	*	*	*	*
07:30			100	109		167	61	267	170		*	*	*	*	*	*
07:45			121	109		208	68	329	177		*	*	*	*	*	*
08:00			96	103		232	59	328	162		*	*	*	*	*	*
08:15			83	108		221	62	304	170		*	*	*	*	*	*
08:30			83	99		228	62	311	161		*	*	*	*	*	*
08:45			94	103		220	71	314	174		*	*	*	*	*	*
09:00			92	131		215	45	307	176		*	*	*	*	*	*
09:15			77	123		190	51	267	174		*	*	*	*	*	*
09:30			84	97		195	64	279	161		*	*	*	*	*	*
09:45			88	117		177	58	265	175		*	*	*	*	*	*
10:00			89	98		138	62	227	160		*	*	*	*	*	*
10:15			80	80		117	56	197	136		*	*	*	*	*	*
10:30			76	89		116	61	192	150		*	*	*	*	*	*
10:45			91	66		112	41	203	107		*	*	*	*	*	*
11:00			80	61		94	27	174	88		*	*	*	*	*	*
11:15			89	35		96	27	185	62		*	*	*	*	*	*
11:30			96	36		120	28	216	64		*	*	*	*	*	*
11:45			81	34		109	18	190	52		*	*	*	*	*	*
Total			2116	5138		3621	3604	5737	8742		71	0	52	0	123	0
Day Total			7254			7225		14479			71	0	52	0	123	0
% Total			14.6%	35.5%		25.0%	24.9%				57.7%	0.0%	42.3%	0.0%		
Peak Vol.			07:15	05:00		08:00	04:45	07:45	05:00							
P.H.F.			0.845	0.832		0.971	0.917	0.967	0.876							

ADT ADT 14,602 AADT 14,602

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

Corridor: CONNECTICUT AVE,NW From R ST,NW TO N ST,NW

Time Period Covered: From 01/01/2010 To 12/31/2012 **Prepared By:** Rahul Jain

Prepared Date: 12/27/2012

		Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Accident:	105	Right Angle:	7	6.7%	Fixed Object:	3	2.9%
Total Number of Fatalities:	1	Left Turn:	1	1.0%	Ran Off Road:	1	1.0%
Total Number of Injuries:	25	Right Turn:	2	1.9%	Ped. Involved:	7	6.7%
Total Number of Disabling Injuries:	4	Rear End:	28	26.7%	Backing:	5	4.8%
Total Number of NonDisabling Injuries:	4	Side Swiped:	37	35.2%	Non Collision:	1	1.0%
Total Number of Pedestrians Involved:	6	Head On:	0	0.0%	Under/Over Ride:	0	0.0%
Total Number of Bicycles Involved:	5	Parked:	5	4.8%	Unspecified:	8	7.6%
Total Number of Motorcycles Involved:	1						

Time of Day	#ACC	%	Day of week	#ACC	%
07:30 ~ 09:30:	8	7.6%	Sunday:	8	7.6%
09:30 ~ 11:30:	11	10.5%	Monday:	10	9.5%
11:30 ~ 13:30:	10	9.5%	Tuesday:	9	8.6%
13:30 ~ 16:00:	13	12.4%	Wednesday:	20	19.0%
16:00 ~ 18:30:	13	12.4%	Thursday:	17	16.2%
18:30 ~ 07:30:	50	47.6%	Friday:	16	15.2%
Unspecified:	0	0.0%	Saturday:	25	23.8%

Weather Condition	#ACC	%	Surface Condition	#ACC	%
Clear:	86	81.9%	Dry:	91	86.7%
Rain:	9	8.6%	Wet:	11	10.5%
Snow:	1	1.0%	Snow/Ice:	1	1.0%
Sleet/Hail:	0	0.0%	Slush:	0	0.0%
Fog/Mist:	1	1.0%	Water/Sand:	0	0.0%
Crosswind/Blowing Sand:	2	1.9%	Repairing:	0	0.0%
Unspecified:	6	5.7%	Unspecified:	2	1.9%

Type of Vehicle	#VEH	%	Accident Severity Type	#ACC	%
Passenger Car:	113	57.9%	Fatal Collision:	1	1.0%
Bus:	13	6.7%	Injury Collision:	21	20.0%
Truck:	12	6.2%	PDO Collision:	83	79.0%
Taxi:	33	16.9%			
Minivan:	0	0.0%	Light Condition	#ACC	%
Police/Emergency Vehicle:	3	1.5%	Daylight:	54	51.4%
Motorcycle/Moped:	2	1.0%	Dawn/Dusk:	3	2.9%
Bicycle:	5	2.6%	Dark(Lighted):	45	42.9%
Fixed Object:	0	0.0%	Dark(Not Lighted):	0	0.0%
Unspecified:	14	7.2%	Dark(Unknown Lighting):	0	0.0%
			Unspecified:	3	2.9%

Contributing Factor	#VEH	%	Pedestrian Actions	#ACC	%
Driver: Speed:	3	1.5%	In Crosswalk with Signal:	1	16.7%
Driver: Alcohol/Drug:	2	1.0%	In Crosswalk against Signal:	3	50.0%
Driver: Electronic Device:	0	0.0%	In Crosswalk no Signal:	1	16.7%
Driver: Others:	36	18.5%	In Unmarked Crosswalk:	0	0.0%
Vehicle:	1	0.5%	Not in Crosswalk:	0	0.0%
Roadway:	2	1.0%	From Between Parked Cars:	0	0.0%
Unspecified:	151	77.4%	Unspecified:	1	16.7%

59 Records are not approved as of 12/27/2013 5:41:26 PM

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

Connecticut Ave NW under Dupont Circle 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
11/12/13	5	6	1	0	0	0	0	0	0	0	0	0	0	0	12
01:00	2	8	9	1	0	0	0	0	0	0	0	0	0	0	20
02:00	3	6	10	5	0	0	0	0	0	0	0	0	0	0	24
03:00	0	1	5	2	1	0	0	0	0	0	0	0	0	0	9
04:00	4	3	5	2	1	0	0	0	0	0	0	0	0	0	15
05:00	7	23	29	16	2	0	0	0	0	0	0	0	0	0	77
06:00	26	95	57	17	7	0	0	0	0	0	0	0	0	0	202
07:00	97	158	70	38	15	0	0	0	0	0	0	0	0	0	378
08:00	83	162	88	16	7	0	0	0	0	0	0	0	0	0	356
09:00	89	178	57	16	1	0	0	0	0	0	0	0	0	0	341
10:00	59	135	108	30	4	0	0	0	0	0	0	0	0	0	336
11:00	78	134	102	28	4	0	0	0	0	0	0	0	0	0	346
12 PM	69	138	110	35	4	0	0	0	0	0	0	0	0	0	356
13:00	51	103	107	40	5	0	0	0	0	0	0	0	0	0	306
14:00	83	124	143	31	8	0	0	0	0	0	0	0	0	0	389
15:00	86	132	138	27	5	0	0	0	0	0	0	0	0	0	388
16:00	119	195	177	32	0	0	0	0	0	0	0	0	0	0	523
17:00	264	292	100	13	0	0	0	0	0	0	0	0	0	0	669
18:00	257	292	88	10	0	0	0	0	0	0	0	0	0	0	647
19:00	288	129	49	13	1	0	0	0	0	0	0	0	0	0	480
20:00	234	97	71	10	1	0	0	0	0	0	0	0	0	0	413
21:00	262	124	65	14	3	0	0	0	0	0	0	0	0	0	468
22:00	128	95	80	27	3	0	0	0	0	0	0	0	0	0	333
23:00	46	55	49	14	2	0	0	0	0	0	0	0	0	0	166
Total	2340	2685	1718	437	74	0	0	0	0	0	0	0	0	0	7254

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

Connecticut Ave NW under Dupont Circle 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
11/13/13	25	26	15	5	0	0	0	0	0	0	0	0	0	0	71
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	25	26	15	5	0	0	0	0	0	0	0	0	0	0	71
Grand Total	2365	2711	1733	442	74	0	0	0	0	0	0	0	0	0	7325

15th Percentile : 6 MPH
 50th Percentile : 14 MPH
 85th Percentile : 21 MPH
 95th Percentile : 25 MPH

Stats
 Mean Speed(Average) : 15 MPH
 10 MPH Pace Speed : 10-19 MPH
 Number in Pace : 3557
 Percent in Pace : 48.6%
 Number of Vehicles > 25 MPH : 465
 Percent of Vehicles > 25 MPH : 6.3%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

Connecticut Ave NW under Dupont Circle Speed

SEB															
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
11/12/13	0	3	1	1	0	0	0	0	0	0	0	0	0	0	5
01:00	1	7	13	8	3	0	0	0	0	0	0	0	0	0	32
02:00	1	2	7	2	0	0	0	0	0	0	0	0	0	0	12
03:00	0	3	8	2	2	0	0	0	0	0	0	0	0	0	15
04:00	0	0	12	14	3	0	1	0	0	0	0	0	0	0	30
05:00	1	6	29	39	13	3	1	0	0	0	0	0	0	0	92
06:00	9	11	73	93	35	5	1	1	0	0	0	0	0	0	228
07:00	12	17	159	352	81	6	0	0	0	0	0	0	0	0	627
08:00	50	56	377	356	59	3	0	0	0	0	0	0	0	0	901
09:00	38	50	352	287	44	6	0	0	0	0	0	0	0	0	777
10:00	16	39	233	170	23	2	0	0	0	0	0	0	0	0	483
11:00	14	63	232	91	15	3	1	0	0	0	0	0	0	0	419
12 PM	15	76	233	88	9	0	0	0	0	0	0	0	0	0	421
13:00	15	50	214	87	7	2	0	0	0	0	0	0	0	0	375
14:00	6	73	166	71	11	3	2	0	0	0	0	0	0	0	332
15:00	11	69	187	72	16	2	0	0	0	0	0	0	0	0	357
16:00	18	87	176	87	18	5	0	0	0	0	0	0	0	0	391
17:00	21	107	195	80	18	0	0	0	0	0	0	0	0	0	421
18:00	18	59	145	38	10	0	0	0	0	0	0	0	0	0	270
19:00	14	75	127	26	3	0	0	0	0	0	0	0	0	0	245
20:00	13	61	123	49	8	0	0	0	0	0	0	0	0	0	254
21:00	6	52	107	47	5	1	0	0	0	0	0	0	0	0	218
22:00	12	40	123	42	3	0	0	0	0	0	0	0	0	0	220
23:00	3	33	45	17	2	0	0	0	0	0	0	0	0	0	100
Total	294	1039	3337	2119	388	41	6	1	0	0	0	0	0	0	7225

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

Connecticut Ave NW under Dupont Circle Speed

SEB	1	16	21	26	31	36	41	46	51	56	61	66	71	76		
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total	
11/13/13	0	9	33	9	1	0	0	0	0	0	0	0	0	0	0	52
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	9	33	9	1	0	0	0	0	0	0	0	0	0	0	52
Grand Total	294	1048	3370	2128	389	41	6	1	0	0	0	0	0	0	0	7277

15th Percentile : 15 MPH
 50th Percentile : 22 MPH
 85th Percentile : 28 MPH
 95th Percentile : 31 MPH

Stats
 Mean Speed(Average) : 23 MPH
 10 MPH Pace Speed : 20-29 MPH
 Number in Pace : 4636
 Percent in Pace : 63.7%
 Number of Vehicles > 25 MPH : 2458
 Percent of Vehicles > 25 MPH : 33.8%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

Connecticut Ave NW under Dupont Circle Volume

Start Time	12-Nov-13 Tue		NWB		SEB		Combined		13-Nov- Wed	NWB		SEB		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.	A.M.	P.M.
12:00	*	113	*	105	*	218			28	*	24	*	52	*	
12:15	*	66	*	112	*	178			21	*	20	*	41	*	
12:30	*	81	*	118	*	199			22	*	8	*	30	*	
12:45		12	96	5	86	17	182		*	*	*	*	*	*	
01:00		6	79	10	100	16	179		*	*	*	*	*	*	
01:15		5	78	11	91	16	169		*	*	*	*	*	*	
01:30		2	64	7	85	9	149		*	*	*	*	*	*	
01:45		7	85	4	99	11	184		*	*	*	*	*	*	
02:00		5	104	7	104	12	208		*	*	*	*	*	*	
02:15		11	103	2	83	13	186		*	*	*	*	*	*	
02:30		4	101	2	80	6	181		*	*	*	*	*	*	
02:45		4	81	1	65	5	146		*	*	*	*	*	*	
03:00		0	108	2	77	2	185		*	*	*	*	*	*	
03:15		3	83	2	91	5	174		*	*	*	*	*	*	
03:30		1	116	5	84	6	200		*	*	*	*	*	*	
03:45		5	81	6	105	11	186		*	*	*	*	*	*	
04:00		4	130	7	114	11	244		*	*	*	*	*	*	
04:15		3	121	3	81	6	202		*	*	*	*	*	*	
04:30		5	142	7	99	12	241		*	*	*	*	*	*	
04:45		3	130	13	97	16	227		*	*	*	*	*	*	
05:00		14	159	11	117	25	276		*	*	*	*	*	*	
05:15		11	201	28	110	39	311		*	*	*	*	*	*	
05:30		20	161	24	105	44	266		*	*	*	*	*	*	
05:45		32	148	29	89	61	237		*	*	*	*	*	*	
06:00		34	126	29	53	63	179		*	*	*	*	*	*	
06:15		46	183	58	74	104	257		*	*	*	*	*	*	
06:30		58	188	58	77	116	265		*	*	*	*	*	*	
06:45		64	150	83	66	147	216		*	*	*	*	*	*	
07:00		65	131	106	52	171	183		*	*	*	*	*	*	
07:15		92	131	146	64	238	195		*	*	*	*	*	*	
07:30		100	109	167	61	267	170		*	*	*	*	*	*	
07:45		121	109	208	68	329	177		*	*	*	*	*	*	
08:00		96	103	232	59	328	162		*	*	*	*	*	*	
08:15		83	108	221	62	304	170		*	*	*	*	*	*	
08:30		83	99	228	62	311	161		*	*	*	*	*	*	
08:45		94	103	220	71	314	174		*	*	*	*	*	*	
09:00		92	131	215	45	307	176		*	*	*	*	*	*	
09:15		77	123	190	51	267	174		*	*	*	*	*	*	
09:30		84	97	195	64	279	161		*	*	*	*	*	*	
09:45		88	117	177	58	265	175		*	*	*	*	*	*	
10:00		89	98	138	62	227	160		*	*	*	*	*	*	
10:15		80	80	117	56	197	136		*	*	*	*	*	*	
10:30		76	89	116	61	192	150		*	*	*	*	*	*	
10:45		91	66	112	41	203	107		*	*	*	*	*	*	
11:00		80	61	94	27	174	88		*	*	*	*	*	*	
11:15		89	35	96	27	185	62		*	*	*	*	*	*	
11:30		96	36	120	28	216	64		*	*	*	*	*	*	
11:45		81	34	109	18	190	52		*	*	*	*	*	*	
Total		2116	5138	3621	3604	5737	8742		71	0	52	0	123	0	
Day Total		7254		7225		14479			71	0	52	0	123	0	
% Total		14.6%	35.5%	25.0%	24.9%				57.7%	0.0%	42.3%	0.0%			
Peak Vol.		07:15	05:00	08:00	04:45	07:45	05:00								
P.H.F.		0.845	0.832	0.971	0.917	0.967	0.876								

ADT ADT 14,602 AADT 14,602

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

Corridor: CONNECTICUT AVE,NW From R ST,NW TO N ST,NW

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

Prepared By: Rahul Jain

Prepared Date: 12/27/2012

		Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Accident:	105	Right Angle:	7	6.7%	Fixed Object:	3	2.9%
Total Number of Fatalities:	1	Left Turn:	1	1.0%	Ran Off Road:	1	1.0%
Total Number of Injuries:	25	Right Turn:	2	1.9%	Ped. Involved:	7	6.7%
Total Number of Disabling Injuries:	4	Rear End:	28	26.7%	Backing:	5	4.8%
Total Number of NonDisabling Injuries:	4	Side Swiped:	37	35.2%	Non Collision:	1	1.0%
Total Number of Pedestrians Involved:	6	Head On:	0	0.0%	Under/Over Ride:	0	0.0%
Total Number of Bicycles Involved:	5	Parked:	5	4.8%	Unspecified:	8	7.6%
Total Number of Motorcycles Involved:	1						

Time of Day	#ACC	%	Day of week	#ACC	%
07:30 ~ 09:30:	8	7.6%	Sunday:	8	7.6%
09:30 ~ 11:30:	11	10.5%	Monday:	10	9.5%
11:30 ~ 13:30:	10	9.5%	Tuesday:	9	8.6%
13:30 ~ 16:00:	13	12.4%	Wednesday:	20	19.0%
16:00 ~ 18:30:	13	12.4%	Thursday:	17	16.2%
18:30 ~ 07:30:	50	47.6%	Friday:	16	15.2%
Unspecified:	0	0.0%	Saturday:	25	23.8%

Weather Condition	#ACC	%	Surface Condition	#ACC	%
Clear:	86	81.9%	Dry:	91	86.7%
Rain:	9	8.6%	Wet:	11	10.5%
Snow:	1	1.0%	Snow/Ice:	1	1.0%
Sleet/Hail:	0	0.0%	Slush:	0	0.0%
Fog/Mist:	1	1.0%	Water/Sand:	0	0.0%
Crosswind/Blowing Sand:	2	1.9%	Repairing:	0	0.0%
Unspecified:	6	5.7%	Unspecified:	2	1.9%

Type of Vehicle	#VEH	%	Accident Severity Type	#ACC	%
Passenger Car:	113	57.9%	Fatal Collision:	1	1.0%
Bus:	13	6.7%	Injury Collision:	21	20.0%
Truck:	12	6.2%	PDO Collision:	83	79.0%
Taxi:	33	16.9%			
Minivan:	0	0.0%	Light Condition	#ACC	%
Police/Emergency Vehicle:	3	1.5%	Daylight:	54	51.4%
Motorcycle/Moped:	2	1.0%	Dawn/Dusk:	3	2.9%
Bicycle:	5	2.6%	Dark(Lighted):	45	42.9%
Fixed Object:	0	0.0%	Dark(Not Lighted):	0	0.0%
Unspecified:	14	7.2%	Dark(Unknown Lighting):	0	0.0%
			Unspecified:	3	2.9%

Contributing Factor	#VEH	%	Pedestrian Actions	#ACC	%
Driver: Speed:	3	1.5%	In Crosswalk with Signal:	1	16.7%
Driver: Alcohol/Drug:	2	1.0%	In Crosswalk against Signal:	3	50.0%
Driver: Electronic Device:	0	0.0%	In Crosswalk no Signal:	1	16.7%
Driver: Others:	36	18.5%	In Unmarked Crosswalk:	0	0.0%
Vehicle:	1	0.5%	Not in Crosswalk:	0	0.0%
Roadway:	2	1.0%	From Between Parked Cars:	0	0.0%
Unspecified:	151	77.4%	Unspecified:	1	16.7%

59 Records are not approved as of 12/27/2013 5:41:26 PM