



District Department of Transportation

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

2300 Block Connecticut Avenue NW

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
2	208	2	2D	Proposed	2300 Block Connecticut Ave Northwest Southbound



This *proposed* speed camera location will be located in Ward 2 at the 2300 block of Connecticut Avenue Northwest in the southbound direction. Connecticut Avenue runs between Western Avenue Northwest to the north and H Street Northwest to the south. The posted speed limit is 25 MPH.

W2 - 123





District Department of Transportation

2300 Block Connecticut Avenue NW

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 with a right turn lane approaching Calvert Street in the northbound direction. This site has the following characteristics:

- There are sidewalks with curb, gutter, and drainage inlets on both sides of street and crosswalk at Calvert Street.
- There is a traffic signal and crosswalks with pedestrian signals at Calvert Street.
- The existing pavement is in good condition.
- There is one school in this area: Oyster-Adams Bilingual School.
- There is a bus stop located to the west by Calvert Street, and several other bus stops in the vicinity.



Looking northbound



District Department of Transportation

2300 Block Connecticut Avenue NW



Looking southbound

Speed Data Analysis

Posted Speed Limit (MPH)	25
Mean Speed (MPH)	30
85th Percentile Speed (MPH)	38
10 MPH Pace Speed	28-37
ADT	11,111

Both the Mean Speed and 85th Percentile Speed are higher than the posted speed limit at this site. The 85th percentile speed is much higher (13 mph) than the posted speed limit.

Crash Data Analysis

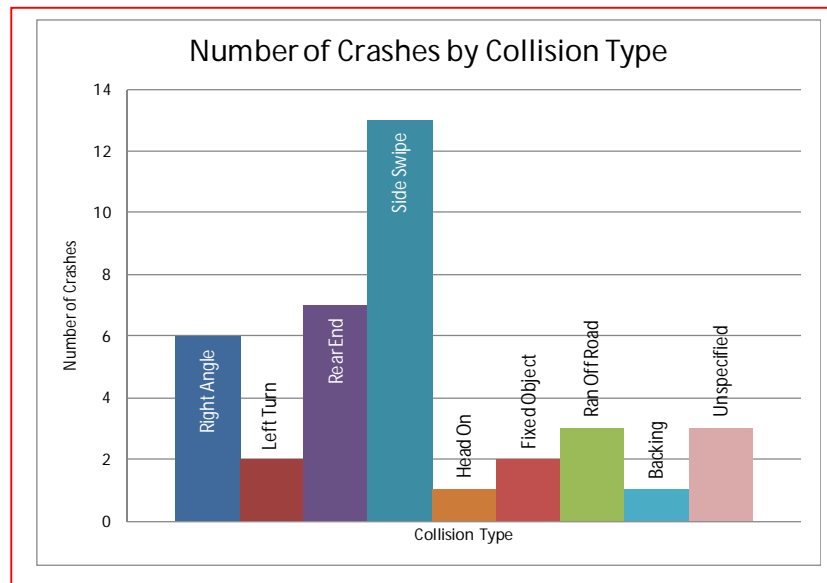
From the Accident Summary Report provided for the dates between January 1, 2010 and December 31, 2012, there were a total of 38 crashes at this location. A breakdown of number of crashes by collision type can be found in the chart on the next page. The most common types of collision at this location were Side Swipe (13 crashes), Rear End (7 crashes), and Right Angle (6 crashes).



District Department of Transportation

2300 Block Connecticut Avenue NW

Severity			Weather			Surface condition			Light Condition		
Total	38										
Fatal	0	0.0%	Clear	30	78.9%	Dry	31	81.6%	Day	23	60.5%
Injury	9	23.7%	Rain	6	15.8%	Wet	4	10.5%	Night	13	34.2%
Truck	9	23.7%	Snow	1	2.6%	Snow/Ice	1	2.6%			
Taxi	7	18.4%									



Safety Nexus

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

1. Speed Data – The 85th percentile speed is much higher than the posted speed limit at this location.
2. Crash Data – There was an elevated number of speed related crashes, including side swipes at this location, as well as a high frequency (9 crashes) of injury related crashes.
3. Field Assessment – The following site characteristics suggest a need for a safer travel environment:
 - a. There is one school in this area: Oyster-Adams Bilingual School.
 - b. There are multiple bus stops in the area which generate pedestrian activity.

Due to the speed data analysis, the elevated number of speed-related crashes and injury-related crashes, the specific site characteristics, and pedestrian generators, there is a nexus between traffic safety and the speed camera at this location.

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

2300 block of Connecticut Ave NW SB Speed

SB

Start Time	15	16	21	26	31	36	41	46	51	56	61	66	71	76	999	Total
11/05/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	14	0	0	3	10	8	6	0	2	1	0	0	0	0	0	44
04:00	1	0	1	6	24	15	6	3	0	0	0	0	0	0	0	56
05:00	3	0	3	20	48	50	19	5	2	0	0	0	0	0	0	150
06:00	8	1	9	67	126	84	35	9	2	0	0	0	0	0	0	341
07:00	84	28	55	181	246	171	44	12	1	0	0	0	0	0	0	822
08:00	157	43	86	179	308	201	41	5	0	0	0	0	0	0	0	1020
09:00	190	84	142	186	235	119	26	4	0	0	0	0	0	0	0	986
10:00	21	9	45	159	234	188	53	11	0	0	0	0	0	0	0	720
11:00	17	6	28	125	249	150	45	10	0	0	0	0	0	0	0	630
12 PM	18	4	31	146	203	136	40	5	0	0	0	0	0	0	0	583
13:00	16	4	39	130	195	137	37	6	1	0	0	0	0	0	0	565
14:00	11	0	7	102	183	122	39	7	1	0	0	0	0	0	0	472
15:00	17	4	31	134	238	132	52	11	0	0	0	0	0	0	0	619
16:00	56	28	89	214	251	154	59	4	1	0	0	0	0	0	0	856
17:00	29	2	73	203	270	147	58	9	1	0	0	0	0	0	0	792
18:00	23	5	28	148	260	144	46	9	0	0	0	0	0	0	0	663
19:00	17	1	19	103	187	118	29	4	2	0	0	0	0	0	0	480
20:00	16	1	21	89	143	75	22	4	1	0	0	0	0	0	0	372
21:00	9	1	11	92	133	86	22	1	0	0	0	0	0	0	0	355
22:00	8	1	10	64	115	61	13	2	0	0	0	0	0	0	0	274
23:00	2	2	4	40	64	30	15	2	0	0	0	0	0	0	0	159
Total	717	224	732	2391	3722	2328	707	123	14	1	0	0	0	0	0	10959

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

2300 block of Connecticut Ave NW SB Speed

SB

Start Time	15	16	21	26	31	36	41	46	51	56	61	66	71	76	999	Total
11/06/13	1	0	0	15	31	20	3	2	0	0	0	0	0	0	0	72
01:00	1	1	3	12	13	9	4	0	0	1	0	0	0	0	0	44
02:00	1	1	1	7	11	4	2	3	0	0	0	0	0	0	0	30
03:00	0	0	1	2	1	2	0	0	0	0	0	0	0	0	0	6
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	3	2	5	36	56	35	9	5	0	1	0	0	0	0	0	152
Grand Total	720	226	737	2427	3778	2363	716	128	14	2	0	0	0	0	0	11111

15th Percentile : 20 MPH
 50th Percentile : 31 MPH
 85th Percentile : 38 MPH
 95th Percentile : 41 MPH

Stats
 Mean Speed(Average) : 30 MPH
 10 MPH Pace Speed : 28-37 MPH
 Number in Pace : 5819
 Percent in Pace : 52.4%
 Number of Vehicles > 25 MPH : 8687
 Percent of Vehicles > 25 MPH : 78.2%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

2300 block of Connecticut Ave NW SB Volume

Start Time	05-Nov-13		06-Nov-13		07-Nov-13		Daily Average	
	Tue A.M.	P.M.	Wed A.M.	P.M.	Thu A.M.	P.M.	A.M.	P.M.
12:00	*	144	29	*	*	*	29	144
12:15	*	140	22	*	*	*	22	140
12:30	*	133	13	*	*	*	13	133
12:45	*	166	8	*	*	*	8	166
01:00	*	139	19	*	*	*	19	139
01:15	*	136	8	*	*	*	8	136
01:30	*	152	7	*	*	*	7	152
01:45	*	138	10	*	*	*	10	138
02:00	*	128	10	*	*	*	10	128
02:15	*	126	8	*	*	*	8	126
02:30	*	102	6	*	*	*	6	102
02:45	*	116	6	*	*	*	6	116
03:00	*	129	6	*	*	*	6	129
03:15	20	139	*	*	*	*	20	139
03:30	11	158	*	*	*	*	11	158
03:45	13	193	*	*	*	*	13	193
04:00	12	212	*	*	*	*	12	212
04:15	6	217	*	*	*	*	6	217
04:30	17	220	*	*	*	*	17	220
04:45	21	207	*	*	*	*	21	207
05:00	13	198	*	*	*	*	13	198
05:15	42	191	*	*	*	*	42	191
05:30	46	227	*	*	*	*	46	227
05:45	49	176	*	*	*	*	49	176
06:00	60	212	*	*	*	*	60	212
06:15	76	157	*	*	*	*	76	157
06:30	91	116	*	*	*	*	91	116
06:45	114	178	*	*	*	*	114	178
07:00	166	170	*	*	*	*	166	170
07:15	174	105	*	*	*	*	174	105
07:30	239	94	*	*	*	*	239	94
07:45	243	111	*	*	*	*	243	111
08:00	274	102	*	*	*	*	274	102
08:15	241	101	*	*	*	*	241	101
08:30	260	90	*	*	*	*	260	90
08:45	245	79	*	*	*	*	245	79
09:00	297	99	*	*	*	*	297	99
09:15	255	87	*	*	*	*	255	87
09:30	213	85	*	*	*	*	213	85
09:45	221	84	*	*	*	*	221	84
10:00	193	74	*	*	*	*	193	74
10:15	172	81	*	*	*	*	172	81
10:30	181	66	*	*	*	*	181	66
10:45	174	53	*	*	*	*	174	53
11:00	165	54	*	*	*	*	165	54
11:15	165	44	*	*	*	*	165	44
11:30	149	37	*	*	*	*	149	37
11:45	151	24	*	*	*	*	151	24
Total	4769	6190	152	0	0	0	4921	6190
Combined Total	10959		152		0		11111	
Peak	08:30	04:00	12:00				08:30	04:00
Vol.	1057	856	72				1057	856
P.H.F.	0.890	0.973	0.621				0.890	0.973
ADT	ADT 11,111		AADT 11,111					

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

Corridor: CONNECTICUT AVE,NW From ASHMEAD PL,NW TO WYOMING 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:	38	Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Fatalities:	0	Right Angle:	6	15.8%	Fixed Object:	2	5.3%
Total Number of Injuries:	15	Left Turn:	2	5.3%	Ran Off Road:	3	7.9%
Total Number of Disabling Injuries:	1	Right Turn:	0	0.0%	Ped. Involved:	0	0.0%
Total Number of NonDisabling Injuries:	3	Rear End:	7	18.4%	Backing:	1	2.6%
Total Number of Pedestrians Involved:	0	Side Swiped:	13	34.2%	Non Collision:	0	0.0%
Total Number of Bicycles Involved:	1	Head On:	1	2.6%	Under/Over Ride:	0	0.0%
Total Number of Motorcycles Involved:	2	Parked:	0	0.0%	Unspecified:	3	7.9%
Time of Day				#ACC	%	Day of week	
07:30 ~ 09:30:				2	5.3%	Sunday:	
09:30 ~ 11:30:				2	5.3%	Monday:	
11:30 ~ 13:30:				8	21.1%	Tuesday:	
13:30 ~ 16:00:				3	7.9%	Wednesday:	
16:00 ~ 18:30:				7	18.4%	Thursday:	
18:30 ~ 07:30:				16	42.1%	Friday:	
Unspecified:				0	0.0%	Saturday:	
Weather Condition				#ACC	%	Surface Condition	
Clear:				30	78.9%	Dry:	
Rain:				6	15.8%	Wet:	
Snow:				1	2.6%	Snow/Ice:	
Sleet/Hail:				0	0.0%	Slush:	
Fog/Mist:				0	0.0%	Water/Sand:	
Crosswind/Blowing Sand:				0	0.0%	Repairing:	
Unspecified:				1	2.6%	Unspecified:	
Type of Vehicle				#VEH	%	Accident Severity Type	
Passenger Car:				38	54.3%	Fatal Collision:	
Bus:				2	2.9%	Injury Collision:	
Truck:				9	12.9%	PDO Collision:	
Taxi:				7	10.0%		
Minivan:				0	0.0%	Light Condition	
Police/Emergency Vehicle:				2	2.9%	Daylight:	
Motorcycle/Moped:				3	4.3%	Dawn/Dusk:	
Bicycle:				1	1.4%	Dark(Lighted):	
Fixed Object:				0	0.0%	Dark(Not Lighted):	
Unspecified:				8	11.4%	Dark(Unknown Lighting):	
						Unspecified:	
Contributing Factor				#VEH	%	Pedestrian Actions	
Driver: Speed:				1	1.4%	In Crosswalk with Signal:	
Driver: Alcohol/Drug:				1	1.4%	In Crosswalk against Signal:	
Driver: Electronic Device:				0	0.0%	In Crosswalk no Signal:	
Driver: Others:				13	18.6%	In Unmarked Crosswalk:	
Vehicle:				0	0.0%	Not in Crosswalk:	
Roadway:				1	1.4%	From Between Parked Cars:	
Unspecified:				54	77.1%	Unspecified:	

26 Records are not approved as of 9/15/2013 10:13:57 PM