



District Department of Transportation

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

6300-6600 Blocks Blair Road NW

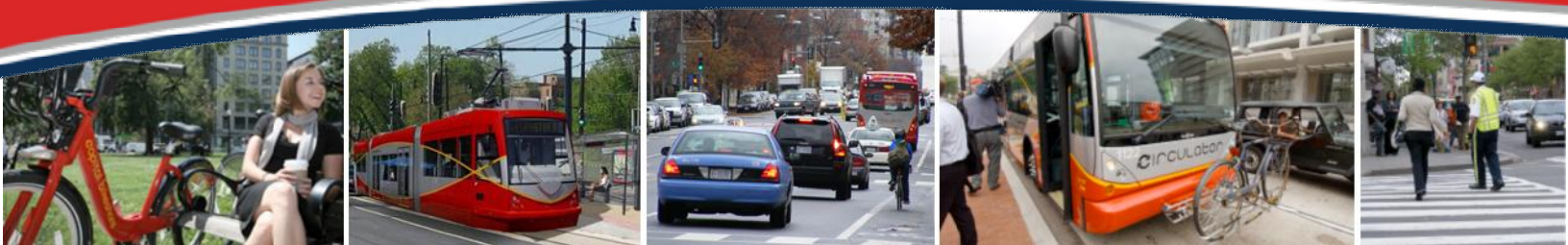
Study Area and Location

District	PSA	Ward	ANC	Phase	Description
4	406	4	4B	Proposed	6300-6600 Blocks Blair Road Northwest Southbound



This *proposed* site will be located in Ward 4 between the 6300 and 6600 blocks of Blair Road Northwest in the southbound direction. Blair Road runs from the intersection with Georgia Avenue Northwest and Eastern Avenue Northwest in the northwest to Riggs Road Northeast in the southeast. The posted speed limit is 30 MPH.

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District Department of Transportation

6300-6600 Blocks Blair Road NW

Field Assessment Summary

Blair Road is assumed to run in the northwest-southeast direction and is classified as a minor arterial. Blair Road has two travel lanes northbound and one travel lane southbound. This site has the following characteristics:

- This is a residential area with houses on the west side of the street and a railroad track on the east side of the street.
- There are three schools in the area: Coolidge High School, Whittier Education Campus, and Imagine Hope Community Charter School.
- Coolidge Recreation Center and Takoma Recreation Center are also in the area.
- There is a traffic signal with pedestrian signals and crosswalks at Van Buren Street.
- There is a sidewalk and on-street parking on the east side of the street.
- The pavement is in good condition and there is curb and gutter with drainage inlets.



Looking Northbound

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District Department of Transportation

6300-6600 Blocks Blair Road NW



Looking Southbound

Speed Data Analysis

Posted Speed Limit (MPH)	30
Mean Speed (MPH)	29
85th Percentile Speed (MPH)	34
10 MPH Pace Speed	26-35
ADT	7,150

The mean speed is lower than the posted speed limit by 1 MPH and the 85th percentile speed is higher than the posted speed by 4 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 14 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 Rear End (5 crashes), Side Swipe, Left Turn and Parked with two crashes. The other collision types had one crash or less each. Furthermore, this site experienced eight injury-related crashes.

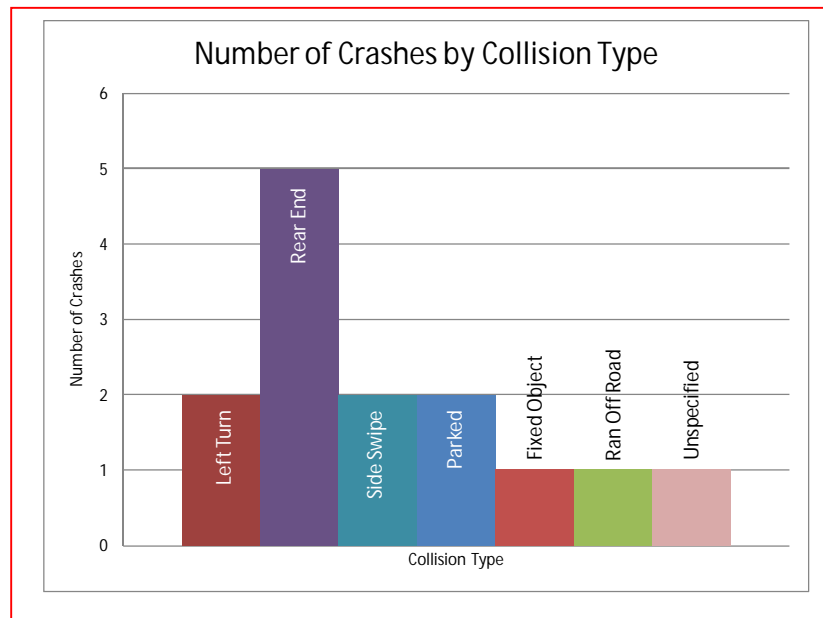
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District Department of Transportation

6300-6600 Blocks Blair Road NW

Severity			Weather			Surface condition			Light Condition		
Total	14										
Fatal	0	0.0%	Clear	12	85.7%	Dry	11	78.6%	Day	7	50.0%
Injury	8	57.1%	Rain	2	14.3%	Wet	3	21.4%	Night	6	42.9%
Truck	2	14.3%	Snow	0	0.0%	Snow/Ice	0	0.0%			
Motorcycle	1	7.1%									



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 – This site experienced eight 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 west side of the street and a railroad track on the east side of the street.
 - b. There are three schools in the area: Coolidge High School, Whittier Education Campus, and Imagine Hope Community Charter School.
 - c. Coolidge Recreation Center and Takoma Recreation Center are in the area which generate pedestrian and bicycle activity.
 - d. There is on-street parking on the southbound side of the street.

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6300-6600 Blocks Blair Road NW

Due to the speed data analysis, the number of injury-related crashes, the specific site characteristics of a residential area, the proximity of schools to the site, 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

6300-6600 Block of Blair Road NW SB Speed

SB

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	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	11	1	0	2	9	2	0	0	0	0	0	0	0	0	25
03:00	0	0	0	8	12	5	2	0	0	0	0	0	0	0	27
04:00	5	0	3	22	50	10	3	2	0	0	0	0	0	0	95
05:00	1	0	2	41	112	47	6	2	0	1	0	0	0	0	212
06:00	6	1	8	150	207	49	3	1	0	0	0	0	0	0	425
07:00	14	1	19	230	234	53	2	0	0	0	0	0	0	0	553
08:00	15	3	29	204	254	43	9	0	0	0	0	0	0	0	557
09:00	20	9	39	206	176	51	6	1	0	0	0	0	0	0	508
10:00	10	0	29	189	138	26	2	1	0	0	0	0	0	0	395
11:00	23	8	38	138	118	30	1	1	0	0	0	0	0	0	357
12 PM	9	2	23	146	116	14	3	0	0	0	0	0	0	0	313
13:00	21	4	30	207	133	22	3	0	0	0	0	0	0	0	420
14:00	14	1	40	194	145	26	1	1	0	0	0	0	0	0	422
15:00	12	0	27	163	147	46	4	1	0	0	0	0	0	0	400
16:00	13	6	35	148	180	38	1	1	0	0	0	0	0	0	422
17:00	21	4	33	183	205	40	4	1	0	0	0	0	0	0	491
18:00	16	7	31	177	174	46	0	2	0	0	0	0	0	0	453
19:00	12	2	18	130	118	30	4	0	0	0	0	0	0	0	314
20:00	3	0	19	73	68	32	5	0	0	0	0	0	0	0	200
21:00	7	0	17	83	100	18	3	0	0	0	0	0	0	0	228
22:00	2	0	7	44	66	23	2	1	0	0	0	0	0	0	145
23:00	2	0	3	35	40	9	3	1	0	0	0	0	0	0	93
Total	237	49	450	2773	2802	660	67	16	0	1	0	0	0	0	7055

SAMMAT ENGINEERING SERVICES, LLC

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MOUNT AIRY, MD 21771

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6300-6600 Block of Blair Road NW SB Speed

SB

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	3	0	4	20	19	13	2	2	0	0	0	0	0	0	63
01:00	0	0	0	8	13	6	0	0	0	0	0	0	0	0	27
02:00	0	0	1	0	4	0	0	0	0	0	0	0	0	0	5
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	5	28	36	19	2	2	0	0	0	0	0	0	95
Grand Total	240	49	455	2801	2838	679	69	18	0	1	0	0	0	0	7150

15th Percentile : 24 MPH
 50th Percentile : 29 MPH
 85th Percentile : 34 MPH
 95th Percentile : 37 MPH

Stats
 Mean Speed(Average) : 29 MPH
 10 MPH Pace Speed : 26-35 MPH
 Number in Pace : 4949
 Percent in Pace : 69.2%
 Number of Vehicles > 30 MPH : 3495
 Percent of Vehicles > 30 MPH : 48.9%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

6300-6600 Block of Blair Road NW SB Volume

Start Time	Tue 12-Nov-13		Wed 13-Nov-13		Thu 14-Nov-13		Daily Average	
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	*	91	22	*	*	*	22	91
12:15	*	69	15	*	*	*	15	69
12:30	*	78	15	*	*	*	15	78
12:45	*	75	11	*	*	*	11	75
01:00	*	95	7	*	*	*	7	95
01:15	*	120	9	*	*	*	9	120
01:30	*	91	6	*	*	*	6	91
01:45	*	114	5	*	*	*	5	114
02:00	*	83	5	*	*	*	5	83
02:15	16	125	*	*	*	*	16	125
02:30	7	106	*	*	*	*	7	106
02:45	2	108	*	*	*	*	2	108
03:00	2	87	*	*	*	*	2	87
03:15	6	113	*	*	*	*	6	113
03:30	9	96	*	*	*	*	9	96
03:45	10	104	*	*	*	*	10	104
04:00	11	103	*	*	*	*	11	103
04:15	23	94	*	*	*	*	23	94
04:30	26	111	*	*	*	*	26	111
04:45	35	114	*	*	*	*	35	114
05:00	34	98	*	*	*	*	34	98
05:15	48	145	*	*	*	*	48	145
05:30	69	121	*	*	*	*	69	121
05:45	61	127	*	*	*	*	61	127
06:00	77	121	*	*	*	*	77	121
06:15	93	106	*	*	*	*	93	106
06:30	129	118	*	*	*	*	129	118
06:45	126	108	*	*	*	*	126	108
07:00	117	88	*	*	*	*	117	88
07:15	140	76	*	*	*	*	140	76
07:30	145	80	*	*	*	*	145	80
07:45	151	70	*	*	*	*	151	70
08:00	139	41	*	*	*	*	139	41
08:15	153	61	*	*	*	*	153	61
08:30	141	53	*	*	*	*	141	53
08:45	124	45	*	*	*	*	124	45
09:00	132	57	*	*	*	*	132	57
09:15	133	56	*	*	*	*	133	56
09:30	104	64	*	*	*	*	104	64
09:45	139	51	*	*	*	*	139	51
10:00	106	38	*	*	*	*	106	38
10:15	101	33	*	*	*	*	101	33
10:30	85	42	*	*	*	*	85	42
10:45	103	32	*	*	*	*	103	32
11:00	82	26	*	*	*	*	82	26
11:15	102	29	*	*	*	*	102	29
11:30	77	19	*	*	*	*	77	19
11:45	96	19	*	*	*	*	96	19
Total	3154	3901	95	0	0	0	3249	3901
Combined Total	7055		95		0		7150	
Peak	07:30	05:15	12:00				07:30	05:15
Vol.	588	514	63				588	514
P.H.F.	0.961	0.886	0.716				0.961	0.886
ADT	ADT 7,150		AADT 7,150					

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

Corridor: BLAIR RD,NW From VAN BUREN ST,NW TO SHERIDAN ST,NW

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

Prepared Date: 9/16/2013

		Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Accident:	14	Right Angle:	0	0.0%	Fixed Object:	1	7.1%
Total Number of Fatalities:	0	Left Turn:	2	14.3%	Ran Off Road:	1	7.1%
Total Number of Injuries:	11	Right Turn:	0	0.0%	Ped. Involved:	0	0.0%
Total Number of Disabling Injuries:	1	Rear End:	5	35.7%	Backing:	0	0.0%
Total Number of NonDisabling Injuries:	3	Side Swiped:	2	14.3%	Non Collision:	0	0.0%
Total Number of Pedestrians Involved:	0	Head On:	0	0.0%	Under/Over Ride:	0	0.0%
Total Number of Bicycles Involved:	0	Parked:	2	14.3%	Unspecified:	1	7.1%
Total Number of Motorcycles Involved:	1						

Time of Day	#ACC	%	Day o fweek	#ACC	%
07:30 ~ 09:30:	3	21.4%	Sunday:	1	7.1%
09:30 ~ 11:30:	0	0.0%	Monday:	0	0.0%
11:30 ~ 13:30:	0	0.0%	Tuesday:	2	14.3%
13:30 ~ 16:00:	3	21.4%	Wednesday:	6	42.9%
16:00 ~18:30:	2	14.3%	Thursday:	2	14.3%
18:30 ~ 07:30:	6	42.9%	Friday:	3	21.4%
Unspecified:	0	0.0%	Saturday:	0	0.0%

Weather Condition	#ACC	%	Surface Condition	#ACC	%
Clear:	12	85.7%	Dry:	11	78.6%
Rain:	2	14.3%	Wet:	3	21.4%
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:	24	88.9%	Fatal Collision:	0	0.0%
Bus:	0	0.0%	Injury Collision:	8	57.1%
Truck:	2	7.4%	PDO Collision:	6	42.9%
Taxi:	0	0.0%			
Minivan:	0	0.0%	Light Condition	#ACC	%
Police/Emergency Vehicle:	0	0.0%	Daylight:	7	50.0%
Motorcycle/Moped:	1	3.7%	Dawn/Dusk:	0	0.0%
Bicycle:	0	0.0%	Dark(Lighted):	6	42.9%
Fixed Object:	0	0.0%	Dark(Not Lighted):	0	0.0%
Unspecified:	0	0.0%	Dark(Unknown Lighting):	0	0.0%
			Unspecified:	1	7.1%

Contributing Factor	#VEH	%	Pedestrian Actions	#ACC	%
Driver: Speed:	1	3.7%	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:	5	18.5%	In Unmarked Crosswalk:	0	0.0%
Vehicle:	1	3.7%	Not in Crosswalk:	0	0.0%
Roadway:	0	0.0%	From Between Parked Cars:	0	0.0%
Unspecified:	20	74.1%	Unspecified:	0	0.0%

8 Records are not approved as of 9/16/2013 8:16:04 AM