



District Department of Transportation

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

3300 Block East Capitol Street NE

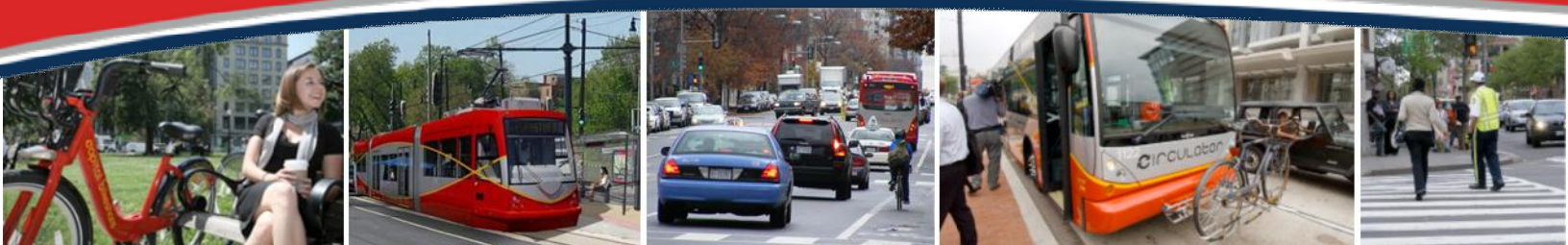
Study Area and Location

District	PSA	Ward	ANC	Phase	Description
5	601	7	7D	Proposed	3300 Block East Capitol Street Northeast, Westbound



The *proposed* speed camera will be located in Ward 7 at the 3300 block of East Capitol Street Northeast in the westbound direction. East Capitol Street runs between Southern Avenue Southeast to the east and C Street Northeast to the west. The posted speed limit is 25 MPH.

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District Department of Transportation

3300 Block East Capitol Street NE

Field Assessment Summary

East Capitol Street Northeast is assumed to run in the east-west direction, and is classified as a principal arterial. East Capitol Street Northeast has three travel lanes westbound and two travel lanes eastbound. This site has the following characteristics:

- RFK Stadium is in the area.
- There are several bike trails in the area.
- There are several bus stops in the area which generate pedestrian activity.
- There are concrete barriers in the middle of the road and on the north side of the road.
- There is curb and gutter on the south side and drainage inlets on both sides of the road.
- The pavement is in fair condition and there is a bicycle/pedestrian path along the north side of the road. The road slopes downgrade eastbound.



Looking Eastbound

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3300 Block East Capitol Street NE



Looking Westbound

Speed Data Analysis

	Westbound
Posted Speed Limit (MPH)	25
Mean Speed (MPH)	13
85th Percentile Speed (MPH)	20
10 MPH Pace Speed	6-15
ADT	206

The mean speed is lower than the posted speed limit in both directions and the 85th percentile speed is lower than the posted speed limit 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 7 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 (3 crashes), and Side Swipe (2 crashes). The other collision types had one crash or less each.

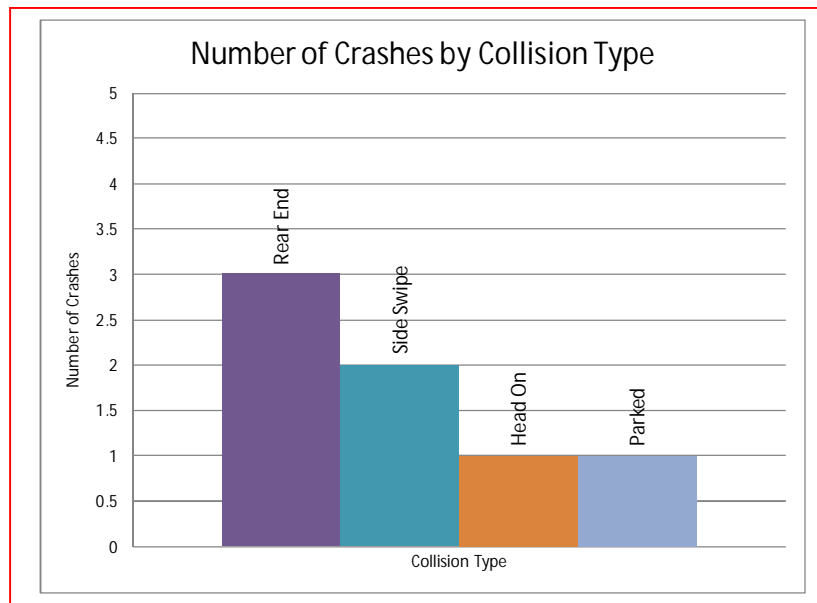
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3300 Block East Capitol Street NE

Severity			Weather			Surface condition			Light Condition		
Total	7										
Fatal	0	0.0%	Clear	6	85.7%	Dry	6	85.7%	Day	4	57.1%
Injury	1	14.3%	Rain	1	14.3%	Wet	1	14.3%	Night	3	42.9%
Truck	2	28.6%	Snow	0	0.0%	Snow/Ice	0	0.0%			
Unspecified	3	42.9%									



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.
2. Crash Data – The crash data analysis shows a low number of crashes at this location.
3. Field Assessment – The following site characteristics suggest a need for a safer travel environment:
 - a. RFK Stadium is in this area which generates pedestrian and bicycle activity.
 - b. There are several bus stops and one Metro station in the area which generate pedestrian activity.

Although the speed data analysis showed lower travel speeds and the crash data analysis showed a low number of crashes, due to the specific site characteristics of a residential area, the proximity of schools to the



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3300 Block East Capitol Street NE

site, the proximity of RFK Stadium and the large volume of vehicular and pedestrian traffic during special events, and other pedestrian generators in the area, 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

3300 Block of East Capitol St. NE WB Speed

WB

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/22/13	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2
01:00	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
02:00	2	1	0	0	0	0	0	0	0	0	0	0	0	0	3
03:00	0	0	1	0	1	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	1	2	1	1	0	0	0	0	0	0	0	0	0	0	5
06:00	4	2	0	0	0	0	0	0	0	0	0	0	0	0	6
07:00	3	5	2	2	0	0	0	0	0	0	0	0	0	0	12
08:00	6	3	0	0	1	0	0	0	0	0	0	0	0	0	10
09:00	2	5	2	1	0	0	0	0	0	0	0	0	0	0	10
10:00	6	2	0	0	0	0	0	0	0	0	0	0	0	0	8
11:00	2	3	1	0	0	0	0	0	0	0	0	0	0	0	6
12 PM	3	5	3	0	0	0	0	0	0	0	0	0	0	0	11
13:00	12	1	1	0	1	0	0	0	0	0	0	0	0	0	15
14:00	8	6	2	0	0	0	0	0	0	0	0	0	0	0	16
15:00	2	2	3	2	0	0	0	0	0	0	0	0	0	0	9
16:00	11	4	2	0	0	0	0	0	0	0	0	0	0	0	17
17:00	4	4	9	2	0	0	0	0	0	0	0	0	0	0	19
18:00	4	5	2	0	0	0	0	0	0	0	0	0	0	0	11
19:00	6	3	4	1	0	0	0	0	0	0	0	0	0	0	14
20:00	5	2	0	0	0	0	0	0	0	0	0	0	0	0	7
21:00	5	2	1	0	0	0	0	0	0	0	0	0	0	0	8
22:00	4	1	0	0	0	0	0	0	0	0	0	0	0	0	5
23:00	3	2	0	0	0	0	0	0	0	0	0	0	0	0	5
Total	99	60	35	9	3	0	0	0	0	0	0	0	0	0	206
Grand Total	99	60	35	9	3	0	0	0	0	0	0	0	0	0	206

15th Percentile : 5 MPH
 50th Percentile : 11 MPH
 85th Percentile : 20 MPH
 95th Percentile : 24 MPH

Stats
 Mean Speed(Average) : 13 MPH
 10 MPH Pace Speed : 6-15 MPH
 Number in Pace : 110
 Percent in Pace : 53.4%
 Number of Vehicles > 25 MPH : 10
 Percent of Vehicles > 25 MPH : 4.8%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

3300 Block of East Capitol St. NE WB Volume

Start Time	22-Nov-13		23-Nov-13		24-Nov-13		Daily Average	
	Fri A.M.	P.M.	Sat A.M.	P.M.	Sun A.M.	P.M.	A.M.	P.M.
12:00	2	6	*	*	*	*	2	6
12:15	0	2	*	*	*	*	0	2
12:30	0	1	*	*	*	*	0	1
12:45	0	2	*	*	*	*	0	2
01:00	2	5	*	*	*	*	2	5
01:15	1	6	*	*	*	*	1	6
01:30	0	1	*	*	*	*	0	1
01:45	1	3	*	*	*	*	1	3
02:00	2	7	*	*	*	*	2	7
02:15	0	5	*	*	*	*	0	5
02:30	0	2	*	*	*	*	0	2
02:45	1	2	*	*	*	*	1	2
03:00	0	0	*	*	*	*	0	0
03:15	0	6	*	*	*	*	0	6
03:30	0	0	*	*	*	*	0	0
03:45	2	3	*	*	*	*	2	3
04:00	0	2	*	*	*	*	0	2
04:15	0	5	*	*	*	*	0	5
04:30	1	7	*	*	*	*	1	7
04:45	0	3	*	*	*	*	0	3
05:00	0	2	*	*	*	*	0	2
05:15	0	5	*	*	*	*	0	5
05:30	2	3	*	*	*	*	2	3
05:45	3	9	*	*	*	*	3	9
06:00	1	3	*	*	*	*	1	3
06:15	0	1	*	*	*	*	0	1
06:30	2	5	*	*	*	*	2	5
06:45	3	2	*	*	*	*	3	2
07:00	4	6	*	*	*	*	4	6
07:15	3	3	*	*	*	*	3	3
07:30	4	1	*	*	*	*	4	1
07:45	1	4	*	*	*	*	1	4
08:00	3	2	*	*	*	*	3	2
08:15	1	2	*	*	*	*	1	2
08:30	4	3	*	*	*	*	4	3
08:45	2	0	*	*	*	*	2	0
09:00	6	3	*	*	*	*	6	3
09:15	1	0	*	*	*	*	1	0
09:30	2	2	*	*	*	*	2	2
09:45	1	3	*	*	*	*	1	3
10:00	1	2	*	*	*	*	1	2
10:15	1	2	*	*	*	*	1	2
10:30	4	0	*	*	*	*	4	0
10:45	2	1	*	*	*	*	2	1
11:00	1	3	*	*	*	*	1	3
11:15	1	1	*	*	*	*	1	1
11:30	3	1	*	*	*	*	3	1
11:45	1	0	*	*	*	*	1	0
Total	69	137	0	0	0	0	69	137
Combined Total	206		0		0		206	
Peak	06:45	05:15					06:45	05:15
Vol.	14	20					14	20
P.H.F.	0.875	0.556					0.875	0.556
ADT	ADT 206		AADT 206					

Accident Summary Report (R-8)**Corridor:** EAST CAPITOL ST,BN From THIRTY THIRD ST,BN TO ANACOSTIA AVE,BN**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:	7	Right Angle:	0	0.0%	Fixed Object:	0	0.0%
Total Number of Fatalities:	0	Left Turn:	0	0.0%	Ran Off Road:	0	0.0%
Total Number of Injuries:	1	Right Turn:	0	0.0%	Ped. Involved:	0	0.0%
Total Number of Disabling Injuries:	0	Rear End:	3	42.9%	Backing:	0	0.0%
Total Number of NonDisabling Injuries:	0	Side Swiped:	2	28.6%	Non Collision:	0	0.0%
Total Number of Pedestrians Involved:	0	Head On:	1	14.3%	Under/Over Ride:	0	0.0%
Total Number of Bicycles Involved:	0	Parked:	1	14.3%	Unspecified:	0	0.0%
Total Number of Motorcycles Involved:	0						

Time of Day	#ACC	%	Day o fweek	#ACC	%
07:30 ~ 09:30:	1	14.3%	Sunday:	0	0.0%
09:30 ~ 11:30:	0	0.0%	Monday:	0	0.0%
11:30 ~ 13:30:	0	0.0%	Tuesday:	0	0.0%
13:30 ~ 16:00:	1	14.3%	Wednesday:	1	14.3%
16:00 ~18:30:	2	28.6%	Thursday:	3	42.9%
18:30 ~ 07:30:	3	42.9%	Friday:	0	0.0%
Unspecified:	0	0.0%	Saturday:	3	42.9%

Weather Condition	#ACC	%	Surface Condition	#ACC	%
Clear:	6	85.7%	Dry:	6	85.7%
Rain:	1	14.3%	Wet:	1	14.3%
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:	9	64.3%	Fatal Collision:	0	0.0%
Bus:	0	0.0%	Injury Collision:	1	14.3%
Truck:	2	14.3%	PDO Collision:	6	85.7%
Taxi:	0	0.0%			
Minivan:	0	0.0%	Light Condition	#ACC	%
Police/Emergency Vehicle:	0	0.0%	Daylight:	4	57.1%
Motorcycle/Moped:	0	0.0%	Dawn/Dusk:	0	0.0%
Bicycle:	0	0.0%	Dark(Lighted):	3	42.9%
Fixed Object:	0	0.0%	Dark(Not Lighted):	0	0.0%
Unspecified:	3	21.4%	Dark(Unknown Lighting):	0	0.0%
			Unspecified:	0	0.0%

Contributing Factor	#VEH	%	Pedestrian Actions	#ACC	%
Driver: Speed:	0	0.0%	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:	1	7.1%	In Unmarked Crosswalk:	0	0.0%
Vehicle:	0	0.0%	Not in Crosswalk:	0	0.0%
Roadway:	0	0.0%	From Between Parked Cars:	0	0.0%
Unspecified:	13	92.9%	Unspecified:	0	0.0%

5 Records are not approved as of 9/16/2013 10:10:59 AM