



District Department of Transportation

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

300 Block Oklahoma Avenue NE

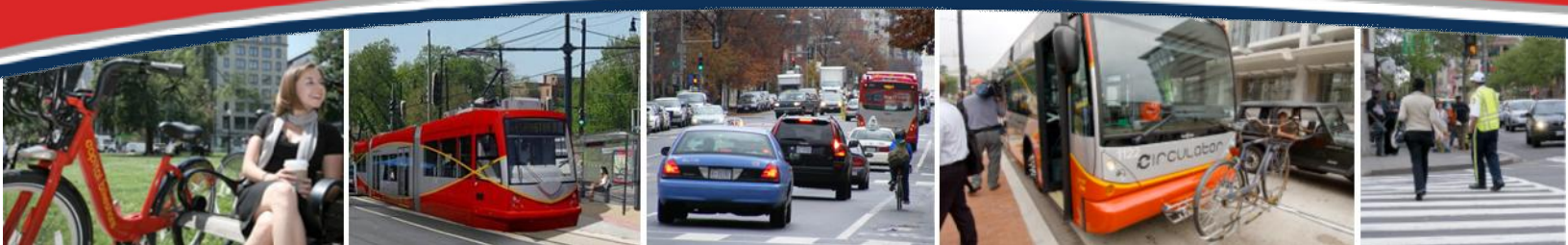
Study Area and Location

District	PSA	Ward	ANC	Phase	Description
5	507	7	7D	Proposed	300 Block Oklahoma Avenue Northeast, Northeast-bound



The *proposed* speed camera will be located in Ward 7 at the 300 block of Oklahoma Avenue Northeast in the northeast-bound direction. Oklahoma Avenue runs between Benning Road Northeast to the north and 21st Street Northeast to the south. The posted speed limit is 25 MPH.

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District Department of Transportation

300 Block Oklahoma Avenue NE

Field Assessment Summary

Oklahoma Avenue is assumed to run in a northeast-southwest direction, and is classified as a collector. Oklahoma Avenue has one travel lane in each direction. This site has the following characteristics:

- This is a residential area with houses on the southwest-bound side.
- There are four schools in the area: Eastern Senior High School, Eliot-Hine Middle School, Gibbs Elementary School and Friendship Public Charter School/Blow Pierce Junior Academy.
- Anacostia Park is located on the northeast-bound side of the street and includes recreational fields. RFK Stadium is also in the area.
- There is sidewalk on the southwest-bound side of the street.
- There is on-street parking on both sides of the street.
- This is a shared use roadway with bicycle symbols in the travel lanes and there is a bike route that runs along Oklahoma Avenue nearby.
- There is curb and gutter with drainage inlets.
- The pavement is in good condition and there are speed humps on Oklahoma Avenue prior to this block.



Looking Northeast-bound

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District Department of Transportation

300 Block Oklahoma Avenue NE



Looking Northeast-bound

Speed Data Analysis

	Northeast-Bound
Posted Speed Limit (MPH)	25
Mean Speed (MPH)	19
85th Percentile Speed (MPH)	24
10 MPH Pace Speed	16-25
ADT	1,401

The mean speed is lower than the posted speed limit, 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 Side Swipe (3 crashes), Head On (2 crashes), and Parked (2 crashes). There was one crash where vehicular speeding was the contributing factor.

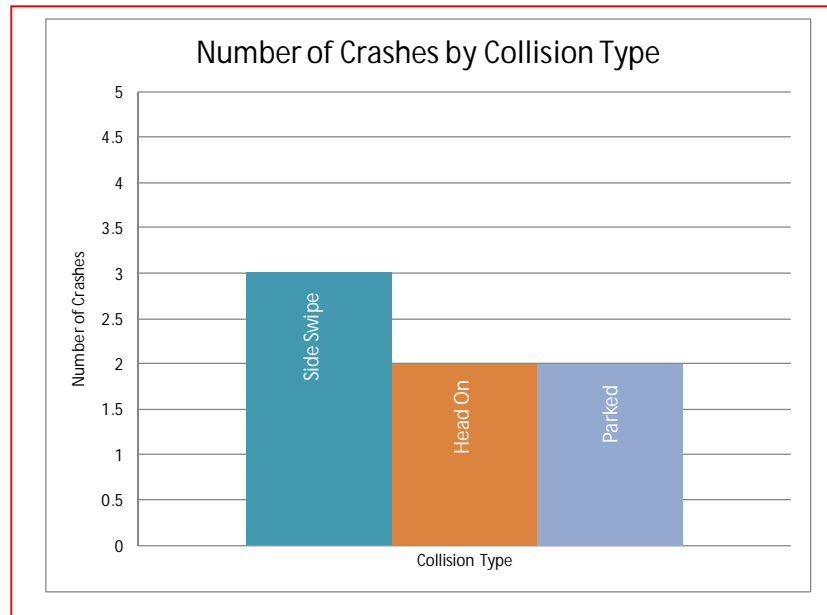
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District Department of Transportation

300 Block Oklahoma Avenue NE

Severity		Weather			Surface condition			Light Condition			
Total	7										
Fatal	0	0.0%	Clear	5	71.4%	Dry	5	71.4%	Day	2	28.6%
Injury	2	28.6%	Rain	2	28.6%	Wet	2	28.6%	Night	5	71.4%
Police/EMS	1	14.3%	Snow	0	0.0%	Snow/Ice	0	0.0%			
		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.
2. Crash Data – The crash data analysis shows a low number of crashes at this location. There was one crash where vehicular speeding was the contributing factor.
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 southwest-bound side of the street.
 - b. There are four schools in the area: Eastern Senior High School, Eliot-Hine Middle School, Gibbs Elementary School and Friendship Public Charter School/Blow Pierce Junior Academy.
 - c. Anacostia Park and RFK Stadium are in the area, which generate pedestrian and bicycle activity.
 - d. There are several bus stops in the area which generate pedestrian activity.

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300 Block Oklahoma Avenue NE

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

Although the speed data analysis showed the lower travel speeds and the crash data analysis showed a low number of crashes, due to the specific site characteristics of a residential neighborhood, the proximity of schools to the site, the proximity of RFK Stadium and the high volume of vehicular and pedestrian traffic on special event days, and the other pedestrian generators in the area, 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

300 block of Oklahoma Ave NE NEB Speed

NEB

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/19/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	1	1	1	2	0	0	0	0	0	0	0	0	0	0	5
02:00	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2
03:00	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
04:00	1	2	2	0	0	0	0	0	0	0	0	0	0	0	5
05:00	0	1	2	6	2	0	0	0	0	0	0	0	0	0	11
06:00	2	7	13	4	1	0	0	0	0	0	0	0	0	0	27
07:00	4	18	48	26	3	0	0	0	0	0	0	0	0	0	99
08:00	7	30	51	18	1	0	0	0	0	0	0	0	0	0	107
09:00	9	18	32	9	1	0	0	0	0	0	0	0	0	0	69
10:00	10	22	26	7	0	0	0	0	0	0	0	0	0	0	65
11:00	6	17	17	4	0	0	0	0	0	0	0	0	0	0	44
12 PM	8	19	26	6	1	0	0	0	0	0	0	0	0	0	60
13:00	9	28	22	6	1	0	0	0	0	0	0	0	0	0	66
14:00	9	28	31	5	0	0	0	0	0	0	0	0	0	0	73
15:00	17	32	58	7	2	0	0	0	0	0	0	0	0	0	116
16:00	9	48	72	15	0	0	0	0	0	0	0	0	0	0	144
17:00	15	66	69	19	1	0	0	0	0	0	0	0	0	0	170
18:00	8	44	53	12	0	0	0	0	0	0	0	0	0	0	117
19:00	8	41	32	7	0	0	0	0	0	0	0	0	0	0	88
20:00	5	18	12	1	0	0	0	0	0	0	0	0	0	0	36
21:00	6	20	14	5	0	0	0	0	0	0	0	0	0	0	45
22:00	3	8	5	1	0	0	0	0	0	0	0	0	0	0	17
23:00	1	6	5	1	0	0	0	0	0	0	0	0	0	0	13
Total	138	474	594	161	14	0	0	0	0	0	0	0	0	0	1381

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

300 block of Oklahoma Ave NE NEB Speed

NEB															
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
11/20/13	7	4	9	0	0	0	0	0	0	0	0	0	0	0	20
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	7	4	9	0	0	0	0	0	0	0	0	0	0	0	20
Grand Total	145	478	603	161	14	0	0	0	0	0	0	0	0	0	1401

15th Percentile : 11 MPH
 50th Percentile : 18 MPH
 85th Percentile : 24 MPH
 95th Percentile : 27 MPH

Stats
 Mean Speed(Average) : 19 MPH
 10 MPH Pace Speed : 16-25 MPH
 Number in Pace : 804
 Percent in Pace : 57.4%
 Number of Vehicles > 25 MPH : 182
 Percent of Vehicles > 25 MPH : 13.0%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

300 block of Oklahoma Ave NE NEB Volume

Start Time	Tue	19-Nov-13	Wed	20-Nov-13	Thu	21-Nov-13	Daily Average	
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	*	17	5	*	*	*	5	17
12:15	*	17	8	*	*	*	8	17
12:30	*	11	3	*	*	*	3	11
12:45	*	15	4	*	*	*	4	15
01:00	2	19	*	*	*	*	2	19
01:15	1	11	*	*	*	*	1	11
01:30	0	19	*	*	*	*	0	19
01:45	2	17	*	*	*	*	2	17
02:00	0	13	*	*	*	*	0	13
02:15	0	23	*	*	*	*	0	23
02:30	1	19	*	*	*	*	1	19
02:45	1	18	*	*	*	*	1	18
03:00	1	12	*	*	*	*	1	12
03:15	0	36	*	*	*	*	0	36
03:30	0	34	*	*	*	*	0	34
03:45	1	34	*	*	*	*	1	34
04:00	2	39	*	*	*	*	2	39
04:15	0	34	*	*	*	*	0	34
04:30	0	35	*	*	*	*	0	35
04:45	3	36	*	*	*	*	3	36
05:00	2	44	*	*	*	*	2	44
05:15	1	39	*	*	*	*	1	39
05:30	3	45	*	*	*	*	3	45
05:45	5	42	*	*	*	*	5	42
06:00	10	50	*	*	*	*	10	50
06:15	3	31	*	*	*	*	3	31
06:30	8	25	*	*	*	*	8	25
06:45	6	11	*	*	*	*	6	11
07:00	13	25	*	*	*	*	13	25
07:15	24	18	*	*	*	*	24	18
07:30	29	29	*	*	*	*	29	29
07:45	33	16	*	*	*	*	33	16
08:00	33	9	*	*	*	*	33	9
08:15	21	10	*	*	*	*	21	10
08:30	25	6	*	*	*	*	25	6
08:45	28	11	*	*	*	*	28	11
09:00	18	17	*	*	*	*	18	17
09:15	20	9	*	*	*	*	20	9
09:30	13	8	*	*	*	*	13	8
09:45	18	11	*	*	*	*	18	11
10:00	17	4	*	*	*	*	17	4
10:15	14	5	*	*	*	*	14	5
10:30	18	7	*	*	*	*	18	7
10:45	16	1	*	*	*	*	16	1
11:00	14	5	*	*	*	*	14	5
11:15	12	4	*	*	*	*	12	4
11:30	9	3	*	*	*	*	9	3
11:45	9	1	*	*	*	*	9	1
Total	436	945	20	0	0	0	456	945
Combined Total	1381		20		0		1401	
Peak	07:15	05:15	12:00				07:15	05:15
Vol.	119	176	20				119	176
P.H.F.	0.902	0.880	0.625				0.902	0.880
ADT	ADT 1,401		AADT 1,401					

Accident Summary Report (R-8)

Corridor: OKLAHOMA AVE,NE From D ST,NE TO TWENTY FOURTH ST,NE

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:	2	Right Turn:	0	0.0%	Ped. Involved:	0	0.0%
Total Number of Disabling Injuries:	0	Rear End:	0	0.0%	Backing:	0	0.0%
Total Number of NonDisabling Injuries:	1	Side Swiped:	3	42.9%	Non Collision:	0	0.0%
Total Number of Pedestrians Involved:	0	Head On:	2	28.6%	Under/Over Ride:	0	0.0%
Total Number of Bicycles Involved:	0	Parked:	2	28.6%	Unspecified:	0	0.0%
Total Number of Motorcycles Involved:	0						

Time of Day	#ACC	%
07:30 ~ 09:30:	1	14.3%
09:30 ~ 11:30:	0	0.0%
11:30 ~ 13:30:	0	0.0%
13:30 ~ 16:00:	0	0.0%
16:00 ~18:30:	1	14.3%
18:30 ~ 07:30:	5	71.4%
Unspecified:	0	0.0%

Day o fweek	#ACC	%
Sunday:	0	0.0%
Monday:	0	0.0%
Tuesday:	1	14.3%
Wednesday:	1	14.3%
Thursday:	4	57.1%
Friday:	0	0.0%
Saturday:	1	14.3%

Weather Condition	#ACC	%
Clear:	5	71.4%
Rain:	2	28.6%
Snow:	0	0.0%
Sleet/Hail:	0	0.0%
Fog/Mist:	0	0.0%
Crosswind/Blowing Sand:	0	0.0%
Unspecified:	0	0.0%

Surface Condition	#ACC	%
Dry:	5	71.4%
Wet:	2	28.6%
Snow/Ice:	0	0.0%
Slush:	0	0.0%
Water/Sand:	0	0.0%
Repairing:	0	0.0%
Unspecified:	0	0.0%

Type of Vehicle	#VEH	%
Passenger Car:	14	93.3%
Bus:	0	0.0%
Truck:	0	0.0%
Taxi:	0	0.0%
Minivan:	0	0.0%
Police/Emergency Vehicle:	1	6.7%
Motorcycle/Moped:	0	0.0%
Bicycle:	0	0.0%
Fixed Object:	0	0.0%
Unspecified:	0	0.0%

Accident Severity Type	#ACC	%
Fatal Collision:	0	0.0%
Injury Collision:	2	28.6%
PDO Collision:	5	71.4%

Light Condition	#ACC	%
Daylight:	2	28.6%
Dawn/Dusk:	0	0.0%
Dark(Lighted):	5	71.4%
Dark(Not Lighted):	0	0.0%
Dark(Unknown Lighting):	0	0.0%
Unspecified:	0	0.0%

Contributing Factor	#VEH	%
Driver: Speed:	1	6.7%
Driver: Alcohol/Drug:	2	13.3%
Driver: Electronic Device:	0	0.0%
Driver: Others:	1	6.7%
Vehicle:	0	0.0%
Roadway:	0	0.0%
Unspecified:	11	73.3%

Pedestrian Actions	#ACC	%
In Crosswalk with Signal:	0	0.0%
In Crosswalk against Signal:	0	0.0%
In Crosswalk no Signal:	0	0.0%
In Unmarked Crosswalk:	0	0.0%
Not in Crosswalk:	0	0.0%
From Between Parked Cars:	0	0.0%
Unspecified:	0	0.0%

5 Records are not approved as of 9/16/2013 10:08:44 AM