



District Department of Transportation

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

3600 Block Martin Luther King, Jr. Avenue SE

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
7	707	8	8C	Proposed	3600 Block Martin Luther King, Jr. Avenue Southeast, Southwest-bound



The *proposed* speed camera is located in Ward 8 at the 3600 block of Martin Luther King Jr. Avenue Southeast in the southwest-bound direction. Martin Luther King Jr. Avenue runs between Good Hope Road Southeast to the north and South Capitol Street Southwest to the south. The posted speed limit is 25 MPH.

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3600 Block Martin Luther King, Jr. Avenue SE

Field Assessment Summary

Martin Luther King, Jr. Avenue Southeast is assumed to run in a northeast-southwest direction and is classified as a minor arterial. Martin Luther King, Jr. Avenue has one travel lane in each direction. This site has the following characteristics:

- This is a residential area with houses and driveways.
- There are two schools in the area: Simon Elementary School and Frank W. Ballou Senior High School. The Oxon Run Public Pool is located just east of Simon Elementary School.
- There is sidewalk on both sides of the street and on-street parking on both sides of the street.
- There is a crosswalk at Upsal Street Southeast.
- The pavement is in good condition and there is curb and gutter with drainage inlets.
- There is a bus stop northeast-bound after Upsal Street Southeast.



Looking Northeast-bound

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3600 Block Martin Luther King, Jr. Avenue SE



Looking Southwest-bound

Speed Data Analysis

Posted Speed Limit (MPH)	25
Mean Speed (MPH)	27
85th Percentile Speed (MPH)	32
10 MPH Pace Speed	22-31
ADT	4,977

The mean speed is 2 MPH higher than the posted speed limit, and the 85th percentile speed is 7 MPH higher 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 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 Side Swipe and Left Turn (4 crashes each), and Rear End and Head On (2 crashes each). The other collision types had 1 crash or less each. There was 1 crash where vehicular speeding was the contributing factor. Furthermore, the site experienced 9 injury-related crashes.

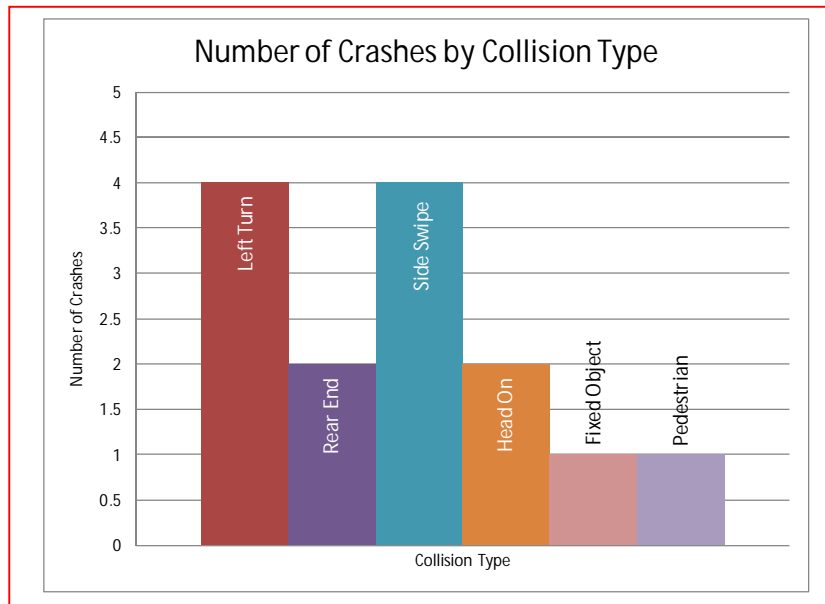
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3600 Block Martin Luther King, Jr. Avenue SE

Severity			Weather			Surface condition			Light Condition		
Total	14										
Fatal	0	0.0%	Clear	11	78.6%	Dry	11	78.6%	Day	9	64.3%
Injury	9	64.3%	Rain	2	14.3%	Wet	3	21.4%	Night	4	28.6%
Truck	4	28.6%	Snow	0	0.0%	Snow/Ice	0	0.0%			
Bus	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 – There was 1 crash where vehicular speeding was the contributing factor. Furthermore, this site experienced 9 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 and driveways.
 - b. There are two schools in the area: Simon Elementary School and Frank W. Ballou Senior High School.
 - c. The Oxon Run Public Pool is located just east of Simon Elementary School, which generates pedestrian activity.

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3600 Block Martin Luther King, Jr. Avenue SE

- d. There are several bus stops in the area which generate pedestrian activity.
- e. There is on-street parking on both sides of the street.

Due to the speed data analysis, the crash data analysis, the specific site characteristics, 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

3600 Block of M L King Jr. Ave SE SWB Speed

NB

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/22/13	1	1	8	25	16	2	4	0	0	0	0	0	0	0	57
01:00	0	0	4	12	8	4	3	0	0	0	0	0	0	0	31
02:00	0	1	4	15	16	1	0	1	0	0	0	0	0	0	38
03:00	1	1	3	3	13	3	1	0	0	0	0	0	0	0	25
04:00	2	0	2	13	11	6	1	0	0	0	0	0	0	0	35
05:00	0	1	6	28	19	10	7	0	0	0	0	0	0	0	71
06:00	1	1	14	47	52	18	5	3	0	0	0	0	0	0	141
07:00	3	3	68	113	36	10	2	0	0	0	0	0	0	0	235
08:00	14	26	105	118	54	9	1	0	0	0	0	0	0	0	327
09:00	47	24	60	87	38	7	3	0	0	0	0	0	0	0	266
10:00	1	16	58	130	42	5	0	1	0	0	0	0	0	0	253
11:00	2	15	40	115	43	13	2	0	0	0	0	0	0	0	230
12 PM	5	13	66	132	40	10	0	0	0	0	0	0	0	0	266
13:00	6	19	115	137	36	8	2	0	0	0	0	0	0	0	323
14:00	10	12	89	142	48	12	2	0	0	0	0	0	0	0	315
15:00	3	4	109	157	62	14	5	0	0	0	0	0	0	0	354
16:00	2	30	210	147	35	8	1	0	0	0	0	0	0	0	433
17:00	7	37	143	137	49	4	1	0	0	0	0	0	0	0	378
18:00	4	5	89	144	48	7	4	2	0	0	0	0	0	0	303
19:00	6	6	64	127	37	8	1	0	0	0	0	0	0	0	249
20:00	3	2	38	93	37	10	1	0	0	0	0	0	0	0	184
21:00	1	1	29	78	45	8	2	0	0	0	0	0	0	0	164
22:00	0	1	36	83	36	8	3	0	0	0	0	0	0	0	167
23:00	3	0	22	42	46	19	0	0	0	0	0	0	0	0	132
Total	122	219	1382	2125	867	204	51	7	0	0	0	0	0	0	4977
Grand Total	122	219	1382	2125	867	204	51	7	0	0	0	0	0	0	4977

15th Percentile : 20 MPH
 50th Percentile : 26 MPH
 85th Percentile : 32 MPH
 95th Percentile : 35 MPH

Stats
 Mean Speed(Average) : 27 MPH
 10 MPH Pace Speed : 22-31 MPH
 Number in Pace : 3175
 Percent in Pace : 63.8%
 Number of Vehicles > 30 MPH : 1229
 Percent of Vehicles > 30 MPH : 24.7%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

3600 Block of M L King Jr. Ave SE SWB 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	14	66	*	*	*	*	14	66
12:15	12	63	*	*	*	*	12	63
12:30	15	73	*	*	*	*	15	73
12:45	16	64	*	*	*	*	16	64
01:00	7	78	*	*	*	*	7	78
01:15	9	87	*	*	*	*	9	87
01:30	9	95	*	*	*	*	9	95
01:45	6	63	*	*	*	*	6	63
02:00	10	86	*	*	*	*	10	86
02:15	9	65	*	*	*	*	9	65
02:30	9	92	*	*	*	*	9	92
02:45	10	72	*	*	*	*	10	72
03:00	9	87	*	*	*	*	9	87
03:15	7	79	*	*	*	*	7	79
03:30	5	98	*	*	*	*	5	98
03:45	4	90	*	*	*	*	4	90
04:00	8	119	*	*	*	*	8	119
04:15	8	110	*	*	*	*	8	110
04:30	8	95	*	*	*	*	8	95
04:45	11	109	*	*	*	*	11	109
05:00	7	100	*	*	*	*	7	100
05:15	25	104	*	*	*	*	25	104
05:30	17	91	*	*	*	*	17	91
05:45	22	83	*	*	*	*	22	83
06:00	30	78	*	*	*	*	30	78
06:15	32	77	*	*	*	*	32	77
06:30	36	77	*	*	*	*	36	77
06:45	43	71	*	*	*	*	43	71
07:00	48	76	*	*	*	*	48	76
07:15	49	60	*	*	*	*	49	60
07:30	55	69	*	*	*	*	55	69
07:45	83	44	*	*	*	*	83	44
08:00	80	60	*	*	*	*	80	60
08:15	87	43	*	*	*	*	87	43
08:30	83	36	*	*	*	*	83	36
08:45	77	45	*	*	*	*	77	45
09:00	76	39	*	*	*	*	76	39
09:15	54	51	*	*	*	*	54	51
09:30	75	34	*	*	*	*	75	34
09:45	61	40	*	*	*	*	61	40
10:00	66	45	*	*	*	*	66	45
10:15	67	46	*	*	*	*	67	46
10:30	68	40	*	*	*	*	68	40
10:45	52	36	*	*	*	*	52	36
11:00	50	33	*	*	*	*	50	33
11:15	59	30	*	*	*	*	59	30
11:30	61	37	*	*	*	*	61	37
11:45	60	32	*	*	*	*	60	32
Total	1709	3268	0	0	0	0	1709	3268
Combined Total	4977		0		0		4977	
Peak	07:45	04:00					07:45	04:00
Vol.	333	433					333	433
P.H.F.	0.957	0.910					0.957	0.910
ADT	ADT 4,977		AADT 4,977					

Accident Summary Report (R-8)

Corridor: MARTIN LUTHER KING JR AVE,SE From HORNER PL,SE TO FIRST ST,SE

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

Prepared By: Rahul Jain

Prepared Date: 9/17/2013

Total Number of Accident:	14	Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Fatalities:	0	Right Angle:	0	0.0%	Fixed Object:	1	7.1%
Total Number of Injuries:	14	Left Turn:	4	28.6%	Ran Off Road:	0	0.0%
Total Number of Disabling Injuries:	1	Right Turn:	0	0.0%	Ped. Involved:	1	7.1%
Total Number of NonDisabling Injuries:	0	Rear End:	2	14.3%	Backing:	0	0.0%
Total Number of Pedestrians Involved:	0	Side Swiped:	4	28.6%	Non Collision:	0	0.0%
Total Number of Bicycles Involved:	0	Head On:	2	14.3%	Under/Over Ride:	0	0.0%
Total Number of Motorcycles Involved:	1	Parked:	0	0.0%	Unspecified:	0	0.0%
Time of Day				#ACC	%	Day of week	
07:30 ~ 09:30:				2	14.3%	Sunday:	
09:30 ~ 11:30:				1	7.1%	Monday:	
11:30 ~ 13:30:				0	0.0%	Tuesday:	
13:30 ~ 16:00:				2	14.3%	Wednesday:	
16:00 ~ 18:30:				4	28.6%	Thursday:	
18:30 ~ 07:30:				5	35.7%	Friday:	
Unspecified:				0	0.0%	Saturday:	
07:30 ~ 09:30:				2	14.3%	Sunday:	
09:30 ~ 11:30:				1	7.1%	Monday:	
11:30 ~ 13:30:				0	0.0%	Tuesday:	
13:30 ~ 16:00:				2	14.3%	Wednesday:	
16:00 ~ 18:30:				4	28.6%	Thursday:	
18:30 ~ 07:30:				5	35.7%	Friday:	
Unspecified:				0	0.0%	Saturday:	
Weather Condition				#ACC	%	Surface Condition	
Clear:				11	78.6%	Dry:	
Rain:				2	14.3%	Wet:	
Snow:				0	0.0%	Snow/Ice:	
Sleet/Hail:				0	0.0%	Slush:	
Fog/Mist:				1	7.1%	Water/Sand:	
Crosswind/Blowing Sand:				0	0.0%	Repairing:	
Unspecified:				0	0.0%	Unspecified:	
Clear:				11	78.6%	Dry:	
Rain:				2	14.3%	Wet:	
Snow:				0	0.0%	Snow/Ice:	
Sleet/Hail:				0	0.0%	Slush:	
Fog/Mist:				1	7.1%	Water/Sand:	
Crosswind/Blowing Sand:				0	0.0%	Repairing:	
Unspecified:				0	0.0%	Unspecified:	
Type of Vehicle				#VEH	%	Accident Severity Type	
Passenger Car:				17	68.0%	Fatal Collision:	
Bus:				1	4.0%	Injury Collision:	
Truck:				4	16.0%	PDO Collision:	
Taxi:				0	0.0%		
Minivan:				0	0.0%	Light Condition	
Police/Emergency Vehicle:				1	4.0%	Daylight:	
Motorcycle/Moped:				1	4.0%	Dawn/Dusk:	
Bicycle:				0	0.0%	Dark(Lighted):	
Fixed Object:				0	0.0%	Dark(Not Lighted):	
Unspecified:				1	4.0%	Dark(Unknown Lighting):	
Passenger Car:				17	68.0%	Unspecified:	
Bus:				1	4.0%		
Truck:				4	16.0%		
Taxi:				0	0.0%		
Minivan:				0	0.0%		
Police/Emergency Vehicle:				1	4.0%		
Motorcycle/Moped:				1	4.0%		
Bicycle:				0	0.0%		
Fixed Object:				0	0.0%		
Unspecified:				1	4.0%		
Contributing Factor				#VEH	%	Pedestrian Actions	
Driver: Speed:				1	4.0%	In Crosswalk with Signal:	
Driver: Alcohol/Drug:				0	0.0%	In Crosswalk against Signal:	
Driver: Electronic Device:				0	0.0%	In Crosswalk no Signal:	
Driver: Others:				4	16.0%	In Unmarked Crosswalk:	
Vehicle:				0	0.0%	Not in Crosswalk:	
Roadway:				0	0.0%	From Between Parked Cars:	
Unspecified:				20	80.0%	Unspecified:	
Driver: Speed:				1	4.0%	In Crosswalk with Signal:	
Driver: Alcohol/Drug:				0	0.0%	In Crosswalk against Signal:	
Driver: Electronic Device:				0	0.0%	In Crosswalk no Signal:	
Driver: Others:				4	16.0%	In Unmarked Crosswalk:	
Vehicle:				0	0.0%	Not in Crosswalk:	
Roadway:				0	0.0%	From Between Parked Cars:	
Unspecified:				20	80.0%	Unspecified:	

11 Records are not approved as of 9/17/2013 8:35:25 AM