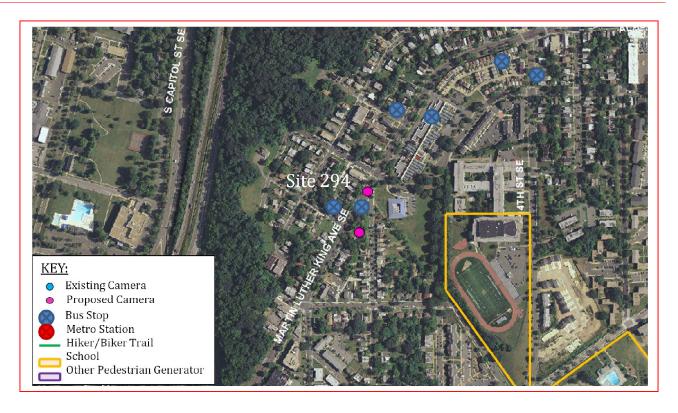




Speed Limit and Safety Nexus Studies for Automated Enforcement Locations in the District of Columbia 3500 Block Martin Luther King, Jr. Avenue SE NE/B

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
7	707	8	8C	Proposed	3500 Block Martin Luther King, Jr. Avenue
					Southeast, Northeast-bound



The *proposed* speed camera is located in Ward 8 at the 3500 block of Martin Luther King, Jr. Avenue Southeast in the northeast-bound direction. Martin Luther King, Jr. Avenue Southeast runs between Good Hope Road Southeast to the north and South Capitol Street Southwest to the south. The posted speed limit is 25 MPH.







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 Southeast 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 Savannah Street Southeast.
- The pavement is in good condition and there is curb and gutter with drainage inlets.
- There is a bus stop northeast-bound before Horner Place Southeast and a bus stop southwest-bound before Sterling Street Southeast.



Looking Northeast-bound





Speed Data Analysis

	SW-B	NE-B
Posted Speed Limit (MPH)	25	25
Mean Speed (MPH)	26	23
85th Percentile Speed (MPH)	32	29
10 MPH Pace Speed	23-32	21-30
ADT	9,7	' 98

In the northeast-bound direction, the mean speed is 2 MPH lower than the posted speed limit, and the 85th percentile speed is 4 MPH higher than the posted speed limit.

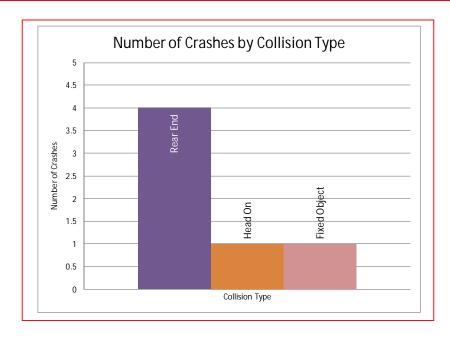
Crash Data Analysis

From the Accident Summary Report provided for the dates between January 1, 2010 and December 31, 2012, there were a total of 6 crashes at this location. A breakdown of number of crashes by collision type can be found in the chart below. The types of collisions at this location were Rear End (4 crashes), Head On and Fixed Object (1 crash each). There were no other collision types reported. There was 1 crash where vehicular speeding was the contributing factor.

W8 - 233



Seve		W∈	eather		Surface	condit	ion	Light Condition			
Total	6										
Fatal	0	0.0%	Clear	3	50.0%	Dry	3	50.0%	Day	4	66.7%
Injury	2	33.3%	Rain	0	0.0%	Wet	3	50.0%	Night	2	33.3%
Emergency	1	16.7%	Snow	0	0.0%	Snow/Ice	0	0.0%			
Truck	1	16.7%									



Safety Nexus

This site presents the following safety considerations which may establish a safety 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. There were 2 injury-related crashes at this location.
- 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.

W8 - 234



- 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.

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD MOUNT AIRY, MD 21771

www.sammateng.com

3500 Block of M. L. King Jr. Ave. SE Speed

SWB															
Start	1	16	21	26	31	36	41	46	51	56	61	66	71	76	
Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/22/13	2	0	11	25	14	2	2	0	0	0	0	0	0	0	56
01:00	2	0	4	10	7	3	2	1	0	0	0	0	0	0	29
02:00	0	1	4	22	9	3	1	0	0	0	0	0	0	0	40
03:00	0	1	2	7	7	2	1	0	0	0	0	0	0	0	20
04:00	0	0	4	15	10	3	1	0	0	0	0	0	0	0	33
05:00	1	0	10	24	19	13	6	0	0	0	0	0	0	0	73
06:00	9	4	11	50	39	9	5	1	0	0	0	0	0	0	128
07:00	27	7	42	84	44	5	3	0	0	0	0	0	0	0	212
08:00	31	7	74	124	59	8	0	1	0	0	0	0	0	0	304
09:00	15	9	48	104	41	9	5	2	1	0	1	0	0	0	235
10:00	15	12	57	103	38	6	1	0	0	0	0	0	0	0	232
11:00	24	7	45	86	45	13	3	0	0	0	0	0	0	0	223
12 PM	12	5	55	134	43	9	3	0	0	0	0	0	0	0	261
13:00	17	9	65	130	58	16	0	0	0	0	0	0	0	0	295
14:00	16	11	71	135	47	13	3	0	0	0	0	0	0	0	296
15:00	16	8	86	129	68	16	3	2	0	0	0	0	0	0	328
16:00	36	31	172	115	47	7	2	1	0	0	0	0	0	0	411
17:00	23	14	115	128	42	8	2	3	0	0	0	0	0	0	335
18:00	11	8	71	137	48	9	1	2	0	0	0	0	0	0	287
19:00	9	5	50	106	50	14	1	0	0	0	0	0	0	0	235
20:00	8	5	21	93	36	10	2	0	0	0	0	0	0	0	175
21:00	8	3	25	72	37	8	2	1	0	0	0	0	0	0	156
22:00	7	5	32	69	35	7	4	0	0	0	0	0	0	0	159
23:00	4	2	17	42	42	9	4	0	0	0	0	0	0	0	120
Total	293	154	1092	1944	885	202	57	14	1	0	1	0	0	0	4643
Grand Total	293	154	1092	1944	885	202	57	14	1	0	1	0	0	0	4643

 15th Percentile:
 18 MPH

 50th Percentile:
 26 MPH

 85th Percentile:
 32 MPH

 95th Percentile:
 36 MPH

 Stats
 Mean Speed(Average) :
 26 MPH

 10 MPH Pace Speed :
 23-32 MPH

10 MPH Pace Speed: 23-32 MPH

Number in Pace: 2768

Percent in Pace: 59.6%

Number of Vehicles > 30 MPH: 1206

Percent of Vehicles > 30 MPH: 26.0%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD MOUNT AIRY, MD 21771

www.sammateng.com

3500 Block of M. L. King Jr. Ave. SE Speed

NEB															
Start	1	16	21	26	31	36	41	46	51	56	61	66	71	76	
Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/22/13	0	7	19	28	13	4	1	0	0	0	0	0	0	0	72
01:00	0	3	11	15	8	2	1	0	0	0	0	0	0	0	40
02:00	0	1	7	13	1	0	0	0	0	0	0	0	0	0	22
03:00	0	1	11	6	0	1	0	0	0	0	0	0	0	0	19
04:00	0	3	6	10	3	1	1	0	0	0	0	0	0	0	24
05:00	4	11	27	34	14	1	1	0	0	0	0	0	0	0	92
06:00	11	19	48	66	36	8	0	0	0	0	0	0	0	0	188
07:00	52	57	138	156	44	11	1	0	0	0	0	0	0	0	459
08:00	37	46	117	151	52	6	0	0	0	0	0	0	0	0	409
09:00	24	36	100	91	27	2	1	0	0	0	0	0	0	0	281
10:00	31	29	95	98	30	3	0	1	0	0	0	0	0	0	287
11:00	23	29	74	87	28	2	2	0	0	0	0	0	0	0	245
12 PM	20	29	100	103	29	5	0	0	0	0	0	0	0	0	286
13:00	25	35	104	112	33	3	1	0	0	0	0	0	0	0	313
14:00	24	31	114	98	24	3	0	1	0	0	0	0	0	0	295
15:00	31	64	106	98	30	6	1	0	0	0	0	0	0	0	336
16:00	45	55	122	88	20	1	0	0	0	0	0	0	0	0	331
17:00	25	50	111	101	20	3	0	0	0	0	0	0	0	0	310
18:00	22	36	98	80	21	6	1	0	0	0	0	0	0	0	264
19:00	7	35	108	83	16	2	1	0	0	0	0	0	0	0	252
20:00	15	20	66	77	15	5	1	0	0	0	0	0	0	0	199
21:00	8	16	56	62	19	5	1	0	0	0	0	0	0	0	167
22:00	6	7	42	51	21	5	0	0	0	0	0	0	0	0	132
23:00	13	13	35	49	16	5	1	0	0	0	0	0	0	0	132
Total	423	633	1715	1757	520	90	15	2	0	0	0	0	0	0	5155
Grand Total	423	633	1715	1757	520	90	15	2	0	0	0	0	0	0	5155

15th Percentile: 13 MPH 50th Percentile: 23 MPH 85th Percentile : 29 MPH 95th Percentile: 33 MPH

Stats 23 MPH

Mean Speed(Average): 10 MPH Pace Speed: 21-30 MPH Number in Pace : 2834 Percent in Pace : 55.0% Number of Vehicles > 30 MPH: 688 Percent of Vehicles > 30 MPH: 13.3%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD MOUNT AIRY, MD 21771

www.sammateng.com

3500 Block of M. L. King Jr. Ave. SE Volume

Start	22-Nov-13		SWB		NEB		ombined	23-Nov-	SWB		NEB		Combir	ned
Time	Fri	A.M.	P.M.	A.M.	P.M.	A.M.	. P.M.	Sat	A.M.	P.M.	A.M.	P.M.	A.M.	P.M
12:00		14	62	16	72	30	134		*	*	*	*	*	
12:15		8	64	14	75	22	139		*	*	*	*	*	
12:30		17	71	30	66	47	137		*	*	*	*	*	
12:45		17	64	12	73	29	137		*	*	*	*	*	
01:00		7	66	8	81	15	147		*	*	*	*	*	
01:15		8	81	12	87	20	168		*	*	*	*	*	
01:30		8	86	10	57	18	143		*	*	*	*	*	
01:45		6	62	10	88	16	150		*	*	*	*	*	
02:00		9	71	5	79	14	150		*	*	*	*	*	
02:15		13	69	7	75	20	144		*	*	*	*	*	
02:30		7	81	7	64	14	145		*	*	*	*	*	
02:45		11	75	3	77	14	152		*	*	*	*	*	
03:00		7	88	3	68	10	156		*	*	*	*	*	
03:15		5	73	5	100	10	173		*	*	*	*	*	
03:30		4	85	9	68	13	153		*	*	*	*	*	
03:45		4	82	2	100	6	182		*	*	*	*	*	
04:00		10	127	3	96	13	223		*	*	*	*	*	
04:15		7	83	6		_	155		*	*	*	*	*	
04:30		7	90	10	83	17	173		*	*	*	*	*	
04:45		9	111	5	80	14	191		*	*	*	*	*	
05:00		7	89	15	70	22	159		*	*	*	*	*	
05:15		28	93	23	82	51	175		*	*	*	*	*	
05:30		16	88	27	71	43	159		*	*	*	*	*	
05:45		22	65	27	87	49	152		*	*	*	*	*	
06:00		28	72	31	68	59	140		*	*	*	*	*	
06:15		30	82	37	59	67	141		*	*	*	*	*	
06:30		36	61	57	68	93	129		*	*	*	*	*	
06:45		34	72	63	69	97	141		*	*	*	*	*	
07:00		43	71	89	70	132	141		*	*	*	*	*	
07:15		45	54	115	64	160	118		*	*	*	*	*	
07:30		56	61	135	55	191	116		*	*	*	*	*	
07:45		68	49	120	63	188	112		*	*	*	*	*	
08:00		74	57	104	49	178	106		*	*	*	*	*	
08:15		73	37	113	51	186	88		*	*	*	*	*	
08:30		79	35	106	58	185	93		*	*	*	*	*	
08:45		78	46	86	41	164	87		*	*	*	*	*	
09:00		61	38	73	41	134	79		*	*	*	*	*	
09:15		51	48	75	49	126	97		*	*	*	*	*	
09:30		68	33	68	44	136	77		*	*	*	*	*	
09:45		55	37	65	33	120	70		*	*	*	*	*	
10:00		59	39	60	38	119	77		*	*	*	*	*	
10:15		64	42	85	37	149	79		*	*	*	*	*	
10:30		56	44	66	34	122	78		*	*	*	*	*	
10:45		53	34	76	23	129	57		*	*	*	*	*	
11:00		53	30	59	37	112	67		*	*	*	*	*	
11:15		53	30	61	29	114	59		*	*	*	*	*	
11:30		58	33	71	34	129	67		*	*	*	*	*	
11:45		59	27	54		113	59		*	*	*	*	*	
Total		1585	3058	2138	3017	3723	6075		0	0	0	0	0	
Day Total			643		5155		9798		0	-	0	-	0	
% Total		16.2%	31.2%	21.8%	30.8%			0.0%		0.0%	0.0%		-	
Peak		08:00	04:00	07:15	03:15	07:30	04:00							
Vol.		304	411	474	364	743	742							
P.H.F.		0.962	0.809	0.878	0.910		0.832							

Accident Summary Report (R-8)

Time Period Covered: From	om 01/01/201	0 To 12/31	2012 Prepare	ed By:	Rahul Jain	Prepared Da	i te: 9	/17/2013
Total Number of Accident:		6	Collision Type	#ACC	% (Collision Type	#ACC	9
Total Number of Fatalities:		0	Right Angle:	0	0.0% I	Fixed Object:	1	16.7%
Total Number of Injuries:		5	Left Turn:	0	0.0% I	Ran Off Road:	0	0.0%
Total Number of Disabling Inj	uries:	0	Right Turn:	0	0.0% I	Ped. Involved:	0	0.0%
Total Number of NonDisabling	g Injuries:	0	Rear End:	4	66.7% I	Backing:	0	0.0%
Total Number of Pedestrians	Involved:	0	Side Swiped:	0	0.0%	Non Collision:	0	0.0%
Total Number of Bicycles Invo	olved:	0	Head On:	1	16.7% I	Jnder/Over Ride:	0	0.0%
Total Number of Motorcycles	Involved:	0	Parked:	0	0.0% ل	Inspecified:	0	0.0%
Time of Day	#ACC	%			Day o fweek	#AC	:C	%
07:30 ~ 09:30:	0	0.0%			Sunday:	1		16.7%
09:30 ~ 11:30:	3	50.0%			Monday:	0		0.0%
11:30 ~ 13:30:	0	0.0%			Tuesday:	3		50.0%
13:30 ~ 16:00:	1	16.7%			Wednesday:	0		0.0%
16:00 ~18:30:	0	0.0%			Thursday:	0		0.0%
18:30 ~ 07:30:	2	33.3%			Friday:	1		16.7%
Unspecified:	0	0.0%			Saturday:	1		16.7%
Weather Condition	#ACC	%			Surface Condition	#AC	C C	%
Clear:	3	50.0%			Dry:	3		50.0%
Rain:	0	0.0%			Wet:	3		50.0%
Snow:	0	0.0%			Snow/Ice:	0		0.0%
Sleet/Hail:	0	0.0%			Slush:	0		0.0%
Fog/Mist:	1	16.7%			Water/Sand:	0		0.0%
Crosswind/Blowing Sand:	0	0.0%			Repairing:	0		0.0%
Unspecified:	2	33.3%			Unspecified:	0		0.0%
Type of Vehicle	#VEH	%			Accident Severity	Type #AC		%
Passenger Car:	7	63.6%			Fatal Collision:	0		0.0%
Bus:	0	0.0%			Injury Collision:	2		33.3%
Truck:	1	9.1%			PDO Collision:	4		66.7%
Taxi:	0	0.0%			. 20 00	·		
Minivan:	0	0.0%			Light Condition	#AC	C	%
Police/Emergency Vehicle:	1	9.1%			Daylight:	4		66.7%
Motorcycle/Moped:	1	9.1%			Dawn/Dusk:	0		0.0%
Bicycle:	0	0.0%			Dark(Lighted):	2		33.3%
Fixed Object:	0	0.0%			Dark(Not Lighted):	0		0.0%
Unspecified:	1	9.1%			Dark(Unknown Ligh	ting): 0		0.0%
C	•	311,70			Unspecified:	0		0.0%
Contributing Factor	#VEH	%			Pedestrian Actions	s #AC	:C	%
Driver: Speed:	1	9.1%			In Crosswalk with S	ignal: 0		0.0%
Driver: Alcohol/Drug:	1	9.1%			In Crosswalk agains	st Signal: 0		0.0%
Driver: Electronic Device:	0	0.0%			In Crosswalk no Sig	nal: 0		0.0%
Driver: Others:	2	18.2%			In Unmarked Cross	walk: 0		0.0%
Vehicle:	0	0.0%			Not in Crosswalk:	0		0.0%
Roadway:	0	0.0%			From Between Park	ed Cars: 0		0.0%
Unspecified:	7	63.6%			Unspecified:	0		0.0%

³ Records are not approved as of 9/17/2013 8:32:09 AM