



District Department of Transportation

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

5100 Block Loughboro Road NW

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
2	205	3	3D	Existing	5100 Block Loughboro Road Northwest Westbound



This existing speed camera is located in Ward 3 at the 5100 block of Loughboro Road Northwest in the westbound direction. Loughboro Road runs from MacArthur Boulevard Northwest in the west to the intersection with Indian Lane Northwest and Chain Bridge Road Northwest where it becomes Nebraska Avenue Northwest. The posted speed limit is 25 MPH. This speed camera was installed on June 2001.

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5100 Block Loughboro Road NW

Field Assessment Summary

Loughboro Road is assumed to run in the Eastbound-Westbound direction and is classified as a collector. Loughboro Road has one travel lane in each direction. This site has the following characteristics:

- This site is located in a residential area with houses and driveways along the south side of the street.
- There is on street parking and sidewalk with a grass buffer on the south side of the street.
- Sibley Memorial Hospital is in the area.
- The existing pavement is in fair condition.
- The drainage type is curb and gutter.
- There are multiple bus stops in the area.



Looking Eastbound



District Department of Transportation

5100 Block Loughboro Road NW



Looking Westbound

Speed Data Analysis

Posted Speed Limit (MPH)	25
Mean Speed (MPH)	22
85th Percentile Speed (MPH)	27
10 MPH Pace Speed	19-28
ADT	3,932

The mean speed is 3 MPH lower than the posted speed limit, and the 85th percentile speed is 2 MPH higher than the posted speed limit.

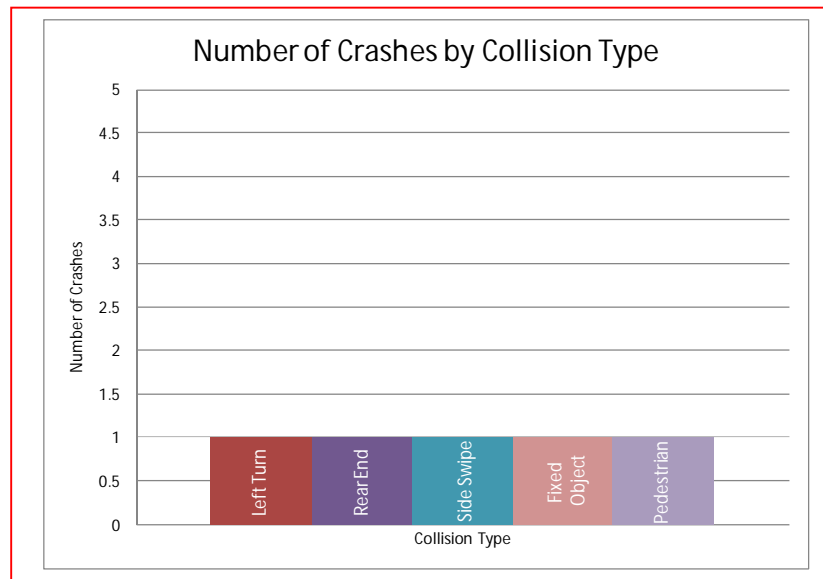
Crash Data Analysis

From the Accident Summary Report provided for the dates between January 1, 2010 and December 31, 2012, there were a total of five crashes at this location. A breakdown of collision type can be found in the chart below. Each of the collision types Left Turn, Rear End, Side Swiped, Fixed Object, and Pedestrian had only one crash.



5100 Block Loughboro Road NW

Severity			Weather			Surface condition			Light Condition		
Total	5										
Fatal	0	0.0%	Clear	3	60.0%	Dry	4	80.0%	Day	4	80.0%
Injury	2	40.0%	Rain	1	20.0%	Wet	1	20.0%	Night	1	20.0%
Bus	1	20.0%	Snow	0	0.0%	Snow/Ice	0	0.0%			
Bicycle	0	0.0%									



This speed camera was installed on 6/21/2001. There was one crash in the year prior to the speed cameras installation, and no crashes in the year following the installation of the speed camera.

Safety Nexus

This site presents the following safety considerations which may establish a nexus between the speed camera and traffic safety:

1. Speed Data – The speed data analysis shows the 85th percentile speed higher than the posted speed limit.
2. Crash Data – There was a reduction in the number of crashes since camera installation. Left Turn, Rear End, Side Swipe, and Fixed Object crashes at this location could be exacerbated by an increase in speeds.
3. Field Assessment – The following site characteristics suggest a need for a safer travel environment:
 - a. This site is located in a residential area with houses and driveways on the south side of the street.
 - b. There is on-street parking on the south side of the street.



District Department of Transportation

5100 Block Loughboro Road NW

Due to the 85th percentile speeds, and the reduction in crashes since camera installation, plus the specific site characteristics of a residential neighborhood, 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

5100 block of Loughboro RD NW WB Speed

WB															
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
11/06/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	2	18	68	34	3	0	0	0	0	0	0	0	0	0	125
07:00	8	48	147	80	8	0	0	0	0	0	0	0	0	0	291
08:00	6	54	217	77	16	1	0	0	0	0	0	0	0	0	371
09:00	11	52	131	73	12	0	0	0	0	0	0	0	0	0	279
10:00	7	33	101	57	13	1	0	0	0	0	0	0	0	0	212
11:00	8	35	104	61	4	1	0	0	0	0	0	0	0	0	213
12 PM	7	29	99	61	12	0	0	0	0	0	0	0	0	0	208
13:00	3	28	110	61	11	0	0	0	0	0	0	0	0	0	213
14:00	8	31	122	59	8	0	0	0	0	0	0	0	0	0	228
15:00	7	49	146	66	14	1	0	0	0	0	0	0	0	0	283
16:00	9	70	186	73	9	2	0	0	0	0	0	0	0	0	349
17:00	13	68	199	62	5	0	0	0	0	0	0	0	0	0	347
18:00	6	60	173	66	7	1	0	0	0	0	0	0	0	0	313
19:00	1	38	86	37	6	0	0	0	0	0	0	0	0	0	168
20:00	6	18	54	35	3	0	0	0	0	0	0	0	0	0	116
21:00	1	6	25	23	7	2	0	0	0	0	0	0	0	0	64
22:00	0	11	26	16	2	0	0	0	0	0	0	0	0	0	55
23:00	0	5	11	2	2	1	0	0	0	0	0	0	0	0	21
Total	103	653	2005	943	142	10	0	0	0	0	0	0	0	0	3856

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

5100 block of Loughboro RD NW WB Speed

WB	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/07/13	1	3	3	5	0	0	0	0	0	0	0	0	0	0	12
01:00	0	2	4	2	1	0	0	0	0	0	0	0	0	0	9
02:00	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2
03:00	0	1	4	1	2	0	0	0	0	0	0	0	0	0	8
04:00	0	2	2	2	0	0	0	0	0	0	0	0	0	0	6
05:00	1	8	23	4	1	2	0	0	0	0	0	0	0	0	39
06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	16	36	14	5	2	0	0	0	0	0	0	0	0	76
Grand Total	106	669	2041	957	147	12	0	0	0	0	0	0	0	0	3932

15th Percentile : 15 MPH
 50th Percentile : 22 MPH
 85th Percentile : 27 MPH
 95th Percentile : 30 MPH

Stats
 Mean Speed(Average) : 22 MPH
 10 MPH Pace Speed : 19-28 MPH
 Number in Pace : 2605
 Percent in Pace : 66.3%
 Number of Vehicles > 25 MPH : 1126
 Percent of Vehicles > 25 MPH : 28.6%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

5100 block of Loughboro RD NW WB Volume

Start Time	Wed	06-Nov-13	Thu	07-Nov-13	Fri	08-Nov-13	Daily Average	
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	*	48	8	*	*	*	8	48
12:15	*	58	1	*	*	*	1	58
12:30	*	50	2	*	*	*	2	50
12:45	*	52	1	*	*	*	1	52
01:00	*	45	4	*	*	*	4	45
01:15	*	70	3	*	*	*	3	70
01:30	*	44	1	*	*	*	1	44
01:45	*	54	1	*	*	*	1	54
02:00	*	52	0	*	*	*	0	52
02:15	*	65	0	*	*	*	0	65
02:30	*	65	1	*	*	*	1	65
02:45	*	46	1	*	*	*	1	46
03:00	*	75	0	*	*	*	0	75
03:15	*	60	2	*	*	*	2	60
03:30	*	78	4	*	*	*	4	78
03:45	*	70	2	*	*	*	2	70
04:00	*	79	2	*	*	*	2	79
04:15	*	93	1	*	*	*	1	93
04:30	*	102	3	*	*	*	3	102
04:45	*	75	0	*	*	*	0	75
05:00	*	80	3	*	*	*	3	80
05:15	*	96	6	*	*	*	6	96
05:30	*	91	14	*	*	*	14	91
05:45	*	80	16	*	*	*	16	80
06:00	17	93	*	*	*	*	17	93
06:15	32	79	*	*	*	*	32	79
06:30	31	66	*	*	*	*	31	66
06:45	45	75	*	*	*	*	45	75
07:00	62	64	*	*	*	*	62	64
07:15	69	36	*	*	*	*	69	36
07:30	72	34	*	*	*	*	72	34
07:45	88	34	*	*	*	*	88	34
08:00	89	27	*	*	*	*	89	27
08:15	88	39	*	*	*	*	88	39
08:30	102	24	*	*	*	*	102	24
08:45	92	26	*	*	*	*	92	26
09:00	86	17	*	*	*	*	86	17
09:15	58	19	*	*	*	*	58	19
09:30	63	10	*	*	*	*	63	10
09:45	72	18	*	*	*	*	72	18
10:00	64	21	*	*	*	*	64	21
10:15	55	11	*	*	*	*	55	11
10:30	41	15	*	*	*	*	41	15
10:45	52	8	*	*	*	*	52	8
11:00	45	9	*	*	*	*	45	9
11:15	60	2	*	*	*	*	60	2
11:30	63	5	*	*	*	*	63	5
11:45	45	5	*	*	*	*	45	5
Total	1491	2365	76	0	0	0	1567	2365
Combined Total	3856		76		0		3932	
Peak	08:00	05:15	05:00				08:00	05:15
Vol.	371	360	39				371	360
P.H.F.	0.909	0.938	0.609				0.909	0.938
ADT	ADT 3,932		AADT 3,932					

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

Corridor: LOUGHBORO RD,NW From PALISADE LN,NW TO MACOMB ST,NW

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

Prepared Date: 9/15/2013

Total Number of Accident:	5	Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Fatalities:	0	Right Angle:	0	0.0%	Fixed Object:	1	20.0%
Total Number of Injuries:	2	Left Turn:	1	20.0%	Ran Off Road:	0	0.0%
Total Number of Disabling Injuries:	0	Right Turn:	0	0.0%	Ped. Involved:	1	20.0%
Total Number of NonDisabling Injuries:	0	Rear End:	1	20.0%	Backing:	0	0.0%
Total Number of Pedestrians Involved:	1	Side Swiped:	1	20.0%	Non Collision:	0	0.0%
Total Number of Bicycles Involved:	0	Head On:	0	0.0%	Under/Over Ride:	0	0.0%
Total Number of Motorcycles Involved:	0	Parked:	0	0.0%	Unspecified:	0	0.0%
Time of Day				#ACC	%	Day of week	
07:30 ~ 09:30:				1	20.0%	Sunday:	
09:30 ~ 11:30:				1	20.0%	Monday:	
11:30 ~ 13:30:				0	0.0%	Tuesday:	
13:30 ~ 16:00:				1	20.0%	Wednesday:	
16:00 ~ 18:30:				1	20.0%	Thursday:	
18:30 ~ 07:30:				1	20.0%	Friday:	
Unspecified:				0	0.0%	Saturday:	
Weather Condition				#ACC	%	Surface Condition	
Clear:				3	60.0%	Dry:	
Rain:				1	20.0%	Wet:	
Snow:				0	0.0%	Snow/Ice:	
Sleet/Hail:				0	0.0%	Slush:	
Fog/Mist:				0	0.0%	Water/Sand:	
Crosswind/Blowing Sand:				1	20.0%	Repairing:	
Unspecified:				0	0.0%	Unspecified:	
Type of Vehicle				#VEH	%	Accident Severity Type	
Passenger Car:				5	83.3%	Fatal Collision:	
Bus:				1	16.7%	Injury Collision:	
Truck:				0	0.0%	PDO Collision:	
Taxi:				0	0.0%	Light Condition	
Minivan:				0	0.0%	Daylight:	
Police/Emergency Vehicle:				0	0.0%	Dawn/Dusk:	
Motorcycle/Moped:				0	0.0%	Dark(Lighted):	
Bicycle:				0	0.0%	Dark(Not Lighted):	
Fixed Object:				0	0.0%	Dark(Unknown Lighting):	
Unspecified:				0	0.0%	Unspecified:	
Contributing Factor				#VEH	%	Pedestrian Actions	
Driver: Speed:				0	0.0%	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	66.7%	In Unmarked Crosswalk:	
Vehicle:				0	0.0%	Not in Crosswalk:	
Roadway:				0	0.0%	From Between Parked Cars:	
Unspecified:				2	33.3%	Unspecified:	

4 Records are not approved as of 9/15/2013 12:12:30 PM

Accident Summary Report (R-8)

Corridor: LOUGHBORO RD,NW From PALISADE LN,NW TO MACOMB ST,NW
Time Period Covered: From 06/20/2000 To 06/20/2001 **Prepared By:** Rahul Jain **Prepared Date:** 11/19/2013

		Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Accident:	1	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:	0	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:	0	Side Swiped:	0	0.0%	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:	1	100.0%	Unspecified:	0	0.0%
Total Number of Motorcycles Involved:	0						

Time of Day	#ACC	%	Day of week	#ACC	%
07:30 ~ 09:30:	0	0.0%	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:	0	0.0%	Wednesday:	0	0.0%
16:00 ~ 18:30:	0	0.0%	Thursday:	0	0.0%
18:30 ~ 07:30:	1	100.0%	Friday:	0	0.0%
Unspecified:	0	0.0%	Saturday:	1	100.0%

Weather Condition	#ACC	%	Surface Condition	#ACC	%
Clear:	0	0.0%	Dry:	0	0.0%
Rain:	0	0.0%	Wet:	0	0.0%
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:	1	100.0%	Unspecified:	1	100.0%

Type of Vehicle	#VEH	%	Accident Severity Type	#ACC	%
Passenger Car:	1	50.0%	Fatal Collision:	0	0.0%
Bus:	0	0.0%	Injury Collision:	0	0.0%
Truck:	0	0.0%	PDO Collision:	1	100.0%
Taxi:	0	0.0%			
Minivan:	0	0.0%	Light Condition	#ACC	%
Police/Emergency Vehicle:	0	0.0%	Daylight:	0	0.0%
Motorcycle/Moped:	0	0.0%	Dawn/Dusk:	0	0.0%
Bicycle:	0	0.0%	Dark(Lighted):	0	0.0%
Fixed Object:	0	0.0%	Dark(Not Lighted):	0	0.0%
Unspecified:	1	50.0%	Dark(Unknown Lighting):	1	100.0%
			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:	0	0.0%	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:	2	100.0%	Unspecified:	0	0.0%

1 Records are not approved as of 11/19/2013 12:08:15 PM