



District Department of Transportation

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

3000 Block Arizona Avenue NW S/B

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
2	205	3	3D	Existing	3000 Block Arizona Avenue Northwest Southbound



This existing speed camera is located in Ward 3 at the 3000 block of Arizona Avenue Northwest in the southbound direction. Arizona Avenue runs from Loughboro Road Northwest in the northeast to Canal Road Northwest in the southwest. The posted speed limit is 25 MPH. The existing speed camera was installed in June 2001.

W3 - 56





District Department of Transportation

3000 Block Arizona Avenue NW S/B

Field Assessment Summary

Arizona Avenue is assumed to run in the East-West direction and is classified as a principal arterial. Arizona Avenue has one travel lane in each direction. The site has the following characteristics:

- This site is in a residential area with houses and driveways on both sides of the street.
- There is sidewalk with curb and gutter on the east side of the road.
- The existing pavement is in good condition.
- There are multiple bus stops in the area.



Northbound



District Department of Transportation

3000 Block Arizona Avenue NW S/B



Southbound

Speed Data Analysis

Posted Speed Limit (MPH)	25
Mean Speed (MPH)	25
85th Percentile Speed (MPH)	29
10 MPH Pace Speed	21-30 MPH
ADT	6,609

The mean speed is the same as the posted speed limit at this location. The 85th percentile speed is 4 MPH higher than the posted speed limit.

Crash Data Analysis

The speed camera was installed on June 21, 2001. There was one crash, of type parked vehicle, before the installation of speed camera. However, no crashes have been reported after the installation of speed camera. Furthermore, no accidents have occurred at this location in the last three years (2010-2012).

Safety Nexus

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



District Department of Transportation

3000 Block Arizona Avenue NW S/B

1. Speed Data – The speed data analysis shows travel speeds being equal to or higher than the posted speed limit.
2. Crash Data – Although there was a reduction in the number of crashes since the installation of the speed camera, there was only a small number of crashes recorded for the site.
3. Field Assessment – The following site characteristics suggest a need for a safer travel environment:
 - a. The site is located in a residential area with driveways along both sides.
 - b. There are multiple bus stops in the area which generate pedestrian activity.

The speed data analysis showed the 85th percentile speeds to be higher than the posted speed limit, and the crash data analysis showed a reduction in the number of crashes at this site, albeit a small number of crashes. Although there have been no accidents since the installation of the speed camera, vehicular speeding seems to be a persistent problem at this location. This suggests that this location could benefit from additional speed enforcement to curb vehicular speeding. Given the speeding issues in a residential neighborhood, 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

3000 block of Arizona Avenue NW SB Speed

SB

Start Time	15	16	21	26	31	36	41	46	51	56	61	66	71	76	Total
	15	20	25	30	35	40	45	50	55	60	65	70	75	999	
11/05/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	6	0	1	0	0	0	0	0	0	0	0	0	0	0	7
04:00	0	1	2	4	6	0	0	0	0	0	0	0	0	0	13
05:00	3	2	14	23	13	1	0	0	0	0	0	0	0	0	56
06:00	1	1	53	79	18	6	0	0	0	0	0	0	0	0	158
07:00	5	23	161	193	41	2	0	0	0	0	0	0	0	0	425
08:00	6	41	167	146	32	1	0	0	0	0	0	0	0	0	393
09:00	3	13	108	143	25	1	0	0	0	0	0	0	0	0	293
10:00	4	8	104	133	27	2	0	0	0	0	0	0	0	0	278
11:00	3	23	116	140	32	4	0	0	0	0	0	0	0	0	318
12 PM	1	16	147	144	36	1	0	0	0	0	0	0	0	0	345
13:00	0	25	116	138	50	3	0	0	0	0	0	0	0	0	332
14:00	0	28	177	186	48	3	0	0	0	0	0	0	0	0	442
15:00	12	79	285	221	30	4	0	0	0	0	0	0	0	0	631
16:00	1	40	349	264	44	3	0	0	0	0	0	0	0	0	701
17:00	8	25	346	317	26	0	0	0	0	0	0	0	0	0	722
18:00	0	15	268	228	37	2	0	0	0	0	0	0	0	0	550
19:00	2	5	101	139	34	1	1	0	0	0	0	0	0	0	283
20:00	1	8	89	122	26	0	0	0	0	0	0	0	0	0	246
21:00	3	8	73	95	29	1	0	0	0	0	0	0	0	0	209
22:00	0	2	24	56	23	5	0	1	0	0	0	0	0	0	111
23:00	1	0	15	22	10	1	0	0	0	0	0	0	0	0	49
Total	60	363	2716	2793	587	41	1	1	0	0	0	0	0	0	6562

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

3000 block of Arizona Avenue NW SB Speed

SB

Start Time	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	0	0	5	11	2	1	0	0	0	0	0	0	0	0	19
01:00	0	0	3	6	4	0	0	0	0	0	0	0	0	0	13
02:00	0	1	2	3	2	0	0	0	0	0	0	0	0	0	8
03:00	1	2	3	1	0	0	0	0	0	0	0	0	0	0	7
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	1	3	13	21	8	1	0	0	0	0	0	0	0	0	47
Grand Total	61	366	2729	2814	595	42	1	1	0	0	0	0	0	0	6609

15th Percentile : 20 MPH
 50th Percentile : 25 MPH
 85th Percentile : 29 MPH
 95th Percentile : 32 MPH

Stats
 Mean Speed(Average) : 25 MPH
 10 MPH Pace Speed : 21-30 MPH
 Number in Pace : 4824
 Percent in Pace : 73.0%
 Number of Vehicles > 25 MPH : 3326
 Percent of Vehicles > 25 MPH : 50.3%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

3000 block of Arizona Avenue NW SB Volume

Start Time	Tue	05-Nov-13	Wed	06-Nov-13	Thu	07-Nov-13	Daily Average	
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	*	100	5	*	*	*	5	100
12:15	*	88	7	*	*	*	7	88
12:30	*	72	4	*	*	*	4	72
12:45	*	85	3	*	*	*	3	85
01:00	*	78	5	*	*	*	5	78
01:15	*	86	4	*	*	*	4	86
01:30	*	82	3	*	*	*	3	82
01:45	*	86	1	*	*	*	1	86
02:00	*	108	3	*	*	*	3	108
02:15	*	105	2	*	*	*	2	105
02:30	*	124	2	*	*	*	2	124
02:45	*	105	1	*	*	*	1	105
03:00	*	155	3	*	*	*	3	155
03:15	*	147	4	*	*	*	4	147
03:30	7	162	*	*	*	*	7	162
03:45	0	167	*	*	*	*	0	167
04:00	0	169	*	*	*	*	0	169
04:15	0	186	*	*	*	*	0	186
04:30	5	171	*	*	*	*	5	171
04:45	8	175	*	*	*	*	8	175
05:00	12	191	*	*	*	*	12	191
05:15	14	165	*	*	*	*	14	165
05:30	19	179	*	*	*	*	19	179
05:45	11	187	*	*	*	*	11	187
06:00	30	173	*	*	*	*	30	173
06:15	33	160	*	*	*	*	33	160
06:30	40	134	*	*	*	*	40	134
06:45	55	83	*	*	*	*	55	83
07:00	71	91	*	*	*	*	71	91
07:15	88	85	*	*	*	*	88	85
07:30	140	49	*	*	*	*	140	49
07:45	126	58	*	*	*	*	126	58
08:00	110	83	*	*	*	*	110	83
08:15	110	63	*	*	*	*	110	63
08:30	91	46	*	*	*	*	91	46
08:45	82	54	*	*	*	*	82	54
09:00	68	61	*	*	*	*	68	61
09:15	82	56	*	*	*	*	82	56
09:30	66	50	*	*	*	*	66	50
09:45	77	42	*	*	*	*	77	42
10:00	72	35	*	*	*	*	72	35
10:15	64	27	*	*	*	*	64	27
10:30	79	30	*	*	*	*	79	30
10:45	63	19	*	*	*	*	63	19
11:00	64	17	*	*	*	*	64	17
11:15	74	13	*	*	*	*	74	13
11:30	80	7	*	*	*	*	80	7
11:45	100	12	*	*	*	*	100	12
Total	1941	4621	47	0	0	0	1988	4621
Combined Total	6562		47		0		6609	
Peak	07:30	04:15	12:00				07:30	04:15
Vol.	486	723	19				486	723
P.H.F.	0.868	0.946	0.679				0.868	0.946
ADT		ADT 6,609	AADT 6,609					

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

Corridor: ARIZONA AVE,NW From KLINGLE ST,NW TO CATHEDRAL AVE,NW

Time Period Covered: From 06/21/2000 To 06/21/2001

Prepared By: Rahul Jain

Prepared Date: 12/31/201

		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 o fweek	#ACC	%
07:30 ~ 09:30:	0	0.0%	Sunday:	0	0.0%
09:30 ~ 11:30:	1	100.0%	Monday:	1	100.0%
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:	0	0.0%	Friday:	0	0.0%
Unspecified:	0	0.0%	Saturday:	0	0.0%

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

Type of Vehicle	#VEH	%	Accident Severity Type	#ACC	%
Passenger Car:	2	100.0%	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:	1	100.0%
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:	0	0.0%	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:	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 12/31/2013 5:28:23 PM