



District Department of Transportation

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

Foxhall Road S/B at Reservoir Road NW

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
2	205	3	3D	Proposed	Foxhall Rd SB at Reservoir Rd, Northwest



The *proposed* speed camera will be located in Ward 3 at the intersection of Foxhall Road and Reservoir Road Northwest and is for the southbound traffic. Foxhall Road runs from Loughboro Road Northwest in the north to Canal Road NW in the south. The posted speed limit is 25 MPH.

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District Department of Transportation

Foxhall Road S/B at Reservoir Road NW

Field Assessment Summary

Foxhall Road is assumed to run in a north-south direction and is classified as a minor arterial. Foxhall Road has two travel lanes in both directions north of the intersection and one travel lane in each direction south of the intersection. In both directions of Foxhall Road there is a free right onto Reservoir Road and a left turn lane onto Reservoir Road. This site has the following characteristics:

- This site is located in a residential area with houses on both sides of the roadway.
- There is sidewalk on both sides of the roadway.
- The roadway pavement is in good condition and has curb and gutter drainage features.
- There are two schools in the area: Hardy Middle School and Georgetown University.
- There are several bus stops in the area that generate pedestrian activity.
- Archbold and Foundry Branch Valley parks are near the site and have bike trails that go through them and generate pedestrian and bicycle activity.



Looking Northbound

W3 - 554



District Department of Transportation

Foxhall Road S/B at Reservoir Road NW



Looking Southbound

Speed Data Analysis

Posted Speed Limit (MPH)	25
Mean Speed (MPH)	21
85th Percentile Speed (MPH)	28
10 MPH Pace Speed	20-29
ADT	7,921

The mean speed is 4 MPH lower than the posted speed and the 85th percentile speed is 3 MPH higher than the posted speed 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 nine 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 Left Turn (4 crashes), Side Swipe (3 crashes). The other collision types had one crash or less each.

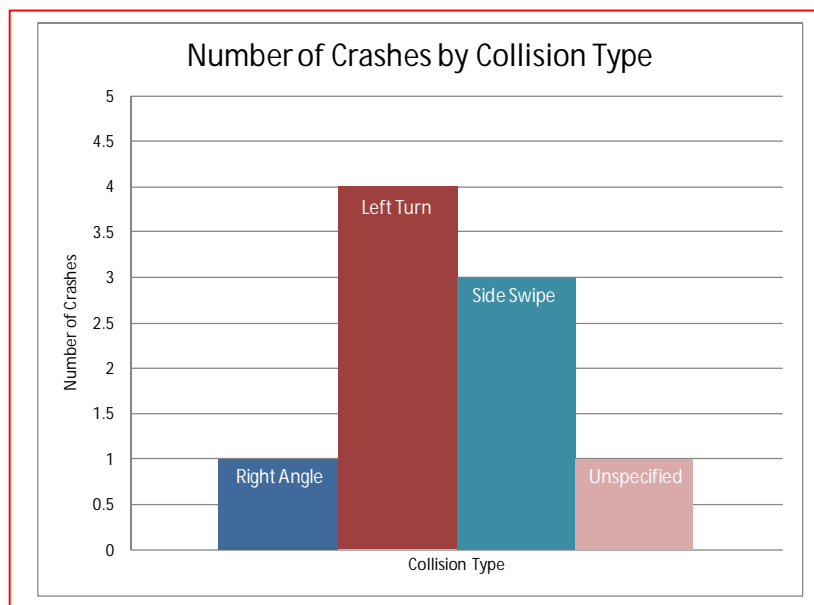
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District Department of Transportation

Foxhall Road S/B at Reservoir Road NW

Severity			Weather			Surface condition			Light Condition		
Total	9										
Fatal	0	0.0%	Clear	7	77.8%	Dry	7	77.8%	Day	5	55.6%
Injury	0	0.0%	Rain	2	22.2%	Wet	2	22.2%	Night	2	22.2%
Taxi	1	11.1%	Snow	0	0.0%	Snow/Ice	0	0.0%			
Bus	1	11.1%									



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 85th percentile speed is higher than the posted speed limit at this location.
2. Crash Data – The crash data analysis shows a low number of crashes at this location.
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 on both sides of the roadway.
 - b. There are two schools in the area: Hardy Middle School and Georgetown University.
 - c. There are bike trails in the area that generate pedestrian and bicycle activity.

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Foxhall Road S/B at Reservoir Road NW

Although the crash data analysis showed a low number of crashes at this location, due to the speed data analysis, the specific site characteristics, the proximity of schools to the site, and other pedestrian generators, there is a nexus between 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

Foxhall Road SB at Reservoir Rd NW Speed

SB

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
11/08/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	93	84	179	66	7	0	0	0	0	0	0	0	0	0	429
09:00	45	54	157	129	13	1	0	0	0	0	0	0	0	0	399
10:00	18	27	161	125	21	1	0	0	0	0	0	0	0	0	353
11:00	37	50	166	156	19	3	0	0	0	0	0	0	0	0	431
12 PM	27	95	223	115	11	1	0	0	0	0	0	0	0	0	472
13:00	31	77	214	116	12	0	0	0	0	0	0	0	0	0	450
14:00	17	56	229	175	20	0	0	0	0	0	0	0	0	0	497
15:00	85	147	242	112	21	0	0	0	0	0	0	0	0	0	607
16:00	105	143	249	99	13	0	0	0	0	0	0	0	0	0	609
17:00	169	148	205	99	5	0	1	0	0	0	0	0	0	0	627
18:00	244	73	106	66	7	1	0	1	0	0	0	0	0	0	498
19:00	14	26	164	257	34	2	0	0	0	0	0	0	0	0	497
20:00	7	19	121	249	34	1	0	0	0	0	0	0	0	0	431
21:00	2	7	67	168	57	4	0	0	0	0	0	0	0	0	305
22:00	2	2	73	121	35	0	1	0	0	0	0	0	0	0	234
23:00	1	0	27	92	41	5	0	0	0	0	0	0	0	0	166
Total	897	1008	2583	2145	350	19	2	1	0	0	0	0	0	0	7005

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

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Foxhall Road SB at Reservoir Rd NW Speed

SB

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
11/09/13	1	5	18	37	21	2	0	0	0	0	0	0	0	0	84
01:00	0	1	8	19	6	2	0	0	0	0	0	0	0	0	36
02:00	0	0	5	11	8	4	0	0	0	0	0	0	0	0	28
03:00	0	2	6	5	3	0	0	0	0	0	0	0	0	0	16
04:00	2	0	5	10	5	2	0	0	0	0	0	0	0	0	24
05:00	7	2	11	39	18	1	0	0	0	0	0	0	0	0	78
06:00	12	0	23	111	17	1	1	0	0	0	0	0	0	0	165
07:00	16	31	190	228	19	1	0	0	0	0	0	0	0	0	485
08:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	38	41	266	460	97	13	1	0	0	0	0	0	0	0	916
Grand Total	935	1049	2849	2605	447	32	3	1	0	0	0	0	0	0	7921

15th Percentile : 10 MPH
50th Percentile : 22 MPH
85th Percentile : 28 MPH
95th Percentile : 31 MPH

Stats
Mean Speed(Average) : 21 MPH
10 MPH Pace Speed : 20-29 MPH
Number in Pace : 4295
Percent in Pace : 54.2%
Number of Vehicles > 25 MPH : 2686
Percent of Vehicles > 25 MPH : 33.9%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

Foxhall Road SB at Reservoir Rd NW Volume

Start Time	Fri A.M.	08-Nov-13 P.M.	Sat A.M.	09-Nov-13 P.M.	Sun A.M.	10-Nov-13 P.M.	Daily Average	
							A.M.	P.M.
12:00	*	138	32	*	*	*	32	138
12:15	*	106	15	*	*	*	15	106
12:30	*	105	22	*	*	*	22	105
12:45	*	123	15	*	*	*	15	123
01:00	*	117	11	*	*	*	11	117
01:15	*	107	9	*	*	*	9	107
01:30	*	111	10	*	*	*	10	111
01:45	*	115	6	*	*	*	6	115
02:00	*	107	9	*	*	*	9	107
02:15	*	122	3	*	*	*	3	122
02:30	*	131	8	*	*	*	8	131
02:45	*	137	8	*	*	*	8	137
03:00	*	147	5	*	*	*	5	147
03:15	*	149	4	*	*	*	4	149
03:30	*	163	4	*	*	*	4	163
03:45	*	148	3	*	*	*	3	148
04:00	*	154	3	*	*	*	3	154
04:15	*	167	4	*	*	*	4	167
04:30	*	161	5	*	*	*	5	161
04:45	*	127	12	*	*	*	12	127
05:00	*	172	7	*	*	*	7	172
05:15	*	172	15	*	*	*	15	172
05:30	*	171	25	*	*	*	25	171
05:45	*	112	31	*	*	*	31	112
06:00	*	93	23	*	*	*	23	93
06:15	*	126	38	*	*	*	38	126
06:30	*	145	50	*	*	*	50	145
06:45	*	134	54	*	*	*	54	134
07:00	*	133	85	*	*	*	85	133
07:15	*	121	104	*	*	*	104	121
07:30	*	123	149	*	*	*	149	123
07:45	*	120	147	*	*	*	147	120
08:00	98	130	*	*	*	*	98	130
08:15	133	110	*	*	*	*	133	110
08:30	97	106	*	*	*	*	97	106
08:45	101	85	*	*	*	*	101	85
09:00	104	92	*	*	*	*	104	92
09:15	101	61	*	*	*	*	101	61
09:30	102	78	*	*	*	*	102	78
09:45	92	74	*	*	*	*	92	74
10:00	85	75	*	*	*	*	85	75
10:15	87	58	*	*	*	*	87	58
10:30	89	49	*	*	*	*	89	49
10:45	92	52	*	*	*	*	92	52
11:00	102	49	*	*	*	*	102	49
11:15	103	27	*	*	*	*	103	27
11:30	99	50	*	*	*	*	99	50
11:45	127	40	*	*	*	*	127	40
Total	1612	5393	916	0	0	0	2528	5393
Combined Total	7005		916		0		7921	
Peak	08:15	04:45	07:00				07:30	04:45
Vol.	435	642	485				527	642
P.H.F.	0.818	0.933	0.814				0.884	0.933
ADT		ADT 7,921	AADT 7,921					

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

Corridor: FOXHALL RD,NW From FORTY FIFTH ST,NW TO RESERVOIR RD,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:	9	Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Fatalities:	0	Right Angle:	1	11.1%	Fixed Object:	0	0.0%
Total Number of Injuries:	0	Left Turn:	4	44.4%	Ran Off Road:	0	0.0%
Total Number of Disabling Injuries:	0	Right Turn:	0	0.0%	Ped. Involved:	0	0.0%
Total Number of NonDisabling Injuries:	0	Rear End:	0	0.0%	Backing:	0	0.0%
Total Number of Pedestrians Involved:	0	Side Swiped:	3	33.3%	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:	1	11.1%

Time of Day	#ACC	%	Day o fweek	#ACC	%
07:30 ~ 09:30:	0	0.0%	Sunday:	1	11.1%
09:30 ~ 11:30:	0	0.0%	Monday:	0	0.0%
11:30 ~ 13:30:	2	22.2%	Tuesday:	2	22.2%
13:30 ~ 16:00:	2	22.2%	Wednesday:	4	44.4%
16:00 ~18:30:	2	22.2%	Thursday:	1	11.1%
18:30 ~ 07:30:	3	33.3%	Friday:	1	11.1%
Unspecified:	0	0.0%	Saturday:	0	0.0%

Weather Condition	#ACC	%	Surface Condition	#ACC	%
Clear:	7	77.8%	Dry:	7	77.8%
Rain:	2	22.2%	Wet:	2	22.2%
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:	17	81.0%	Fatal Collision:	0	0.0%
Bus:	1	4.8%	Injury Collision:	0	0.0%
Truck:	1	4.8%	PDO Collision:	9	100.0%
Taxi:	1	4.8%			
Minivan:	0	0.0%	Light Condition	#ACC	%
Police/Emergency Vehicle:	0	0.0%	Daylight:	5	55.6%
Motorcycle/Moped:	0	0.0%	Dawn/Dusk:	1	11.1%
Bicycle:	0	0.0%	Dark(Lighted):	2	22.2%
Fixed Object:	0	0.0%	Dark(Not Lighted):	0	0.0%
Unspecified:	1	4.8%	Dark(Unknown Lighting):	0	0.0%
			Unspecified:	1	11.1%

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:	5	23.8%	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:	16	76.2%	Unspecified:	0	0.0%

7 Records are not approved as of 9/15/2013 10:02:04 PM