



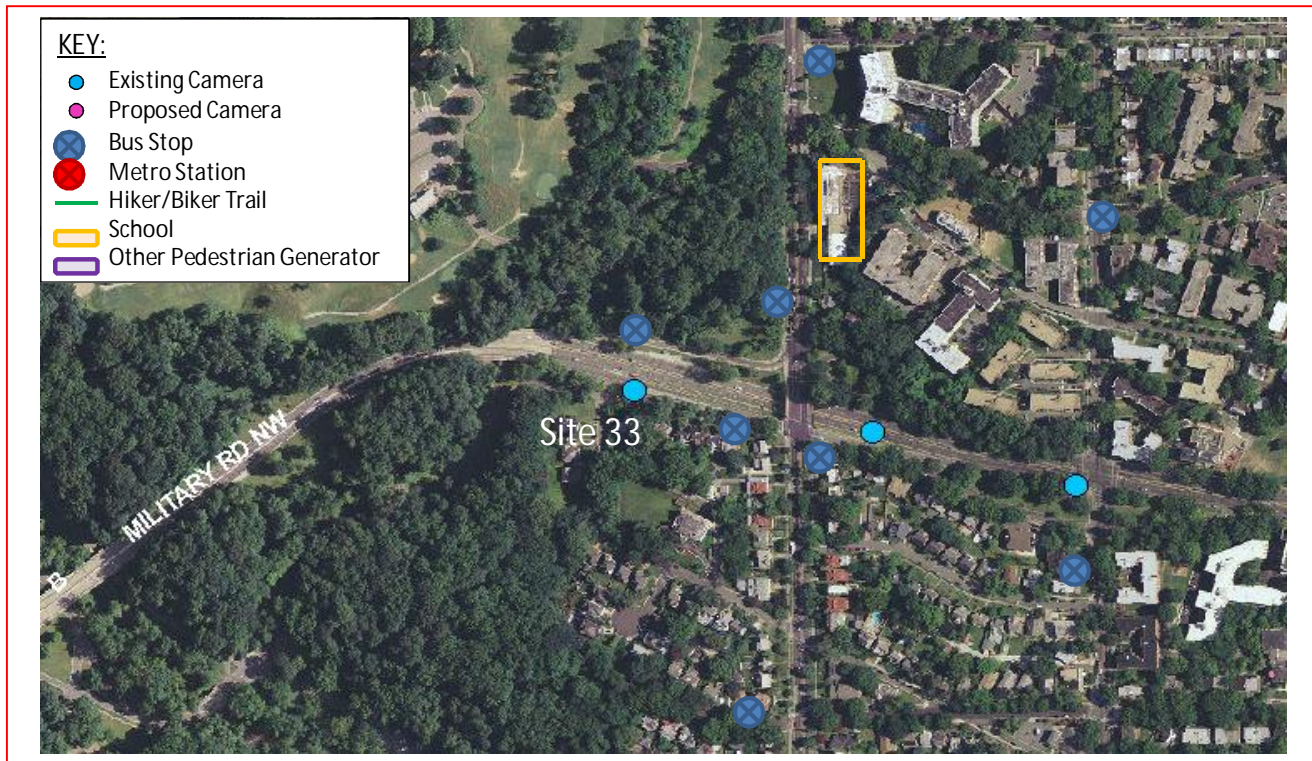
District Department of Transportation

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

Military Road NW 0.1 Miles Prior to 17th Street NW

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
4	403	4	4A	Existing	Military Road 0.1 Miles Prior to 17 th Street Northwest Northeast-bound



This existing speed camera is located in Ward 4 on Military Road 0.1 miles prior to 17th Street Northwest in the northeast-bound direction. Military Road runs between Wisconsin Avenue Northwest to the west and Georgia Avenue Northwest to the east. The posted speed limit is 35 MPH. This speed camera was installed in November 2011.

W4 - 70





District Department of Transportation

Military Road NW 0.1 Miles Prior to 17th Street NW

Field Assessment Summary

Military Road is assumed to run in the east-west direction, and is classified as a principal arterial. Military Road has two travel lanes in each direction. This site has the following characteristics:

- This site is in a residential area with houses in the surrounding area.
- There is a grassy median with guardrail and curb and gutter.
- There is a downhill slope in the eastbound direction.
- The existing pavement is in poor condition.
- There is one school in this area: Jewish Primary Day School of the Nation's Capital.



Looking Eastbound



District Department of Transportation

Military Road NW 0.1 Miles Prior to 17th Street NW



Looking Westbound

Speed Data Analysis

Posted Speed Limit (MPH)	35
Mean Speed (MPH)	31
85th Percentile Speed (MPH)	36
10 MPH Pace Speed	28-37 MPH
ADT	11,495

The mean speed is 4 MPH lower than the posted speed limit and the 85th percentile speed is 1 MPH higher than the posted speed limit.

Crash Data Analysis

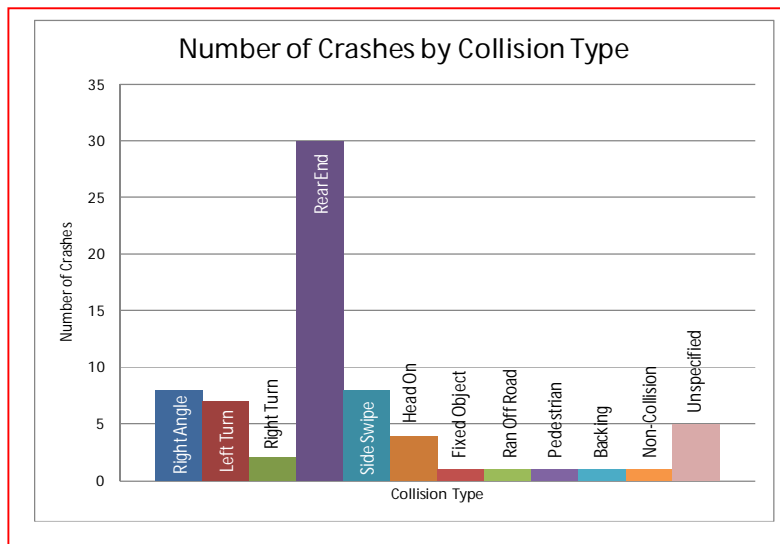
From the Accident Summary Report provided for the dates between January 1, 2010 and December 31, 2012, there were a total of 69 crashes at this location. A breakdown of number of crashes by collision type can be found in the chart on the next page. The most common type of crashes at this location were Rear End (30 crashes), Right Angle (8 crashes), and Side Swipe (8 crashes). One crash involved a pedestrian that was in the crosswalk with no signal. Seven crashes involved a contributing factor of the "driver speeding"; and one crash involved a contributing factor of the driver using an electronic device. Five buses were involved in crashes at this location.



District Department of Transportation

Military Road NW 0.1 Miles Prior to 17th Street NW

Severity			Weather			Surface condition			Light Condition		
Total	69										
Fatal	0	0.0%	Clear	45	65.2%	Dry	45	65.2%	Day	50	72.5%
Injury	28	40.6%	Rain	12	17.4%	Wet	17	24.6%	Night	11	15.9%
Truck	9	13.0%	Snow	4	5.8%	Snow/Ice	6	8.7%			
Bus	5	7.2%									

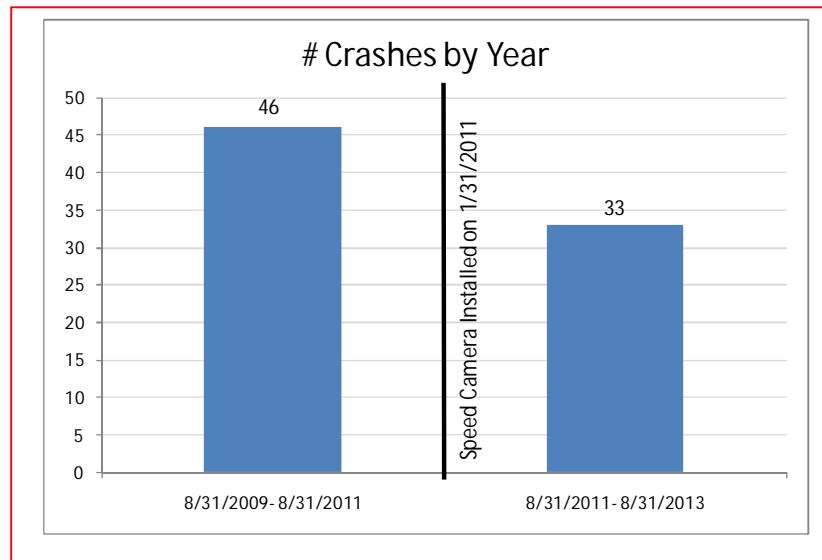


The speed camera was installed on 11-31-2011. Graph on the next page shows the number of crashes in the two years prior to the speed camera's installation (46 crashes) and the two years after the speed camera's installation (33 crashes). Crashes decreased after the installation of the speed camera.



District Department of Transportation

Military Road NW 0.1 Miles Prior to 17th Street NW



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.
2. Crash Data – There was an elevated number of speed-related crashes at this location, including rear end collisions. There was a high frequency (28 crashes) of injury-related crashes at this location. The number of crashes decreased after the installation of the speed camera.
3. Field Assessment – The following site characteristics suggest a need for a safer travel environment:
 - a. There is one school in this area: Jewish Primary Day School of the Nation's Capital.
 - b. There are multiple bus stops in the area which generate pedestrian activity.

Due to the 85th percentile speed data, the elevated number of speed-related crashes, the reduction of crashes since installation of the speed camera, and the specific site characteristics that promote pedestrian activity, 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

Military Rd .1 m pri/to 17th St NW NEB 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
11/08/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
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	26	0	9	36	52	16	1	0	1	0	0	0	0	0	141
Total	26	0	9	36	52	16	1	0	1	0	0	0	0	0	141

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

Military Rd .1 m pri/to 17th St NW NEB Speed

NEB															
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/09/13	5	1	4	60	81	20	3	1	0	0	0	0	0	0	175
01:00	1	0	3	21	35	14	5	0	0	0	0	0	0	0	79
02:00	2	0	2	18	23	11	2	0	0	0	0	0	0	0	58
03:00	1	2	3	10	20	12	5	1	0	0	0	0	0	0	54
04:00	0	0	4	12	13	7	3	0	0	0	0	0	0	0	39
05:00	0	0	4	14	41	27	12	3	1	0	0	0	0	0	102
06:00	5	1	15	44	114	65	19	5	0	0	0	0	0	0	268
07:00	12	0	24	133	247	124	23	3	0	0	0	0	0	0	566
08:00	20	0	25	143	333	158	22	5	0	0	0	0	0	0	706
09:00	23	0	47	183	336	167	32	3	0	0	0	0	0	0	791
10:00	30	2	34	211	343	128	19	3	1	1	0	0	0	0	772
11:00	18	2	43	215	374	128	28	3	0	0	0	0	0	0	811
12 PM	28	1	22	150	352	188	43	0	4	0	0	0	0	0	788
13:00	16	5	15	113	425	221	41	8	0	0	0	0	0	0	844
14:00	27	1	38	187	357	175	44	5	1	0	0	0	0	0	835
15:00	24	1	30	231	387	146	27	0	0	0	0	0	0	0	846
16:00	21	2	43	273	344	80	12	2	0	0	0	0	0	0	777
17:00	18	1	27	216	314	81	10	1	1	0	0	0	0	0	669
18:00	19	1	18	191	167	64	11	1	0	1	0	0	0	0	473
19:00	6	1	26	130	180	49	10	0	0	0	0	0	0	0	402
20:00	11	1	17	136	173	58	9	4	1	1	0	0	0	0	411
21:00	5	1	11	105	186	57	19	2	0	1	0	0	0	0	387
22:00	4	1	27	121	167	43	13	3	0	0	0	0	0	0	379
23:00	2	0	6	53	50	11	0	0	0	0	0	0	0	0	122
Total	298	24	488	2970	5062	2034	412	53	9	4	0	0	0	0	11354
Grand Total	324	24	497	3006	5114	2050	413	53	10	4	0	0	0	0	11495

15th Percentile : 25 MPH
 50th Percentile : 31 MPH
 85th Percentile : 36 MPH
 95th Percentile : 40 MPH

Stats
 Mean Speed(Average) : 31 MPH
 10 MPH Pace Speed : 28-37 MPH
 Number in Pace : 7559
 Percent in Pace : 65.8%
 Number of Vehicles > 35 MPH : 2831
 Percent of Vehicles > 35 MPH : 24.6%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

Military Rd .1 m pri/to 17th St NW NEB Volume

Start Time	Fri	08-Nov-13	Sat	09-Nov-13	Sun	10-Nov-13	Daily Average	
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	*	*	55	222	*	*	55	222
12:15	*	*	48	194	*	*	48	194
12:30	*	*	38	207	*	*	38	207
12:45	*	*	34	165	*	*	34	165
01:00	*	*	26	195	*	*	26	195
01:15	*	*	21	219	*	*	21	219
01:30	*	*	17	217	*	*	17	217
01:45	*	*	15	213	*	*	15	213
02:00	*	*	18	210	*	*	18	210
02:15	*	*	18	234	*	*	18	234
02:30	*	*	7	205	*	*	7	205
02:45	*	*	15	186	*	*	15	186
03:00	*	*	23	198	*	*	23	198
03:15	*	*	13	229	*	*	13	229
03:30	*	*	7	199	*	*	7	199
03:45	*	*	11	220	*	*	11	220
04:00	*	*	11	206	*	*	11	206
04:15	*	*	8	209	*	*	8	209
04:30	*	*	7	180	*	*	7	180
04:45	*	*	13	182	*	*	13	182
05:00	*	*	16	188	*	*	16	188
05:15	*	*	20	164	*	*	20	164
05:30	*	*	25	166	*	*	25	166
05:45	*	*	41	151	*	*	41	151
06:00	*	*	48	135	*	*	48	135
06:15	*	*	66	108	*	*	66	108
06:30	*	*	78	120	*	*	78	120
06:45	*	*	76	110	*	*	76	110
07:00	*	*	119	124	*	*	119	124
07:15	*	*	134	108	*	*	134	108
07:30	*	*	188	82	*	*	188	82
07:45	*	*	125	88	*	*	125	88
08:00	*	*	141	113	*	*	141	113
08:15	*	*	185	112	*	*	185	112
08:30	*	*	218	95	*	*	218	95
08:45	*	*	162	91	*	*	162	91
09:00	*	*	143	108	*	*	143	108
09:15	*	*	171	95	*	*	171	95
09:30	*	*	279	82	*	*	279	82
09:45	*	*	198	102	*	*	198	102
10:00	*	*	178	119	*	*	178	119
10:15	*	*	158	96	*	*	158	96
10:30	*	*	233	97	*	*	233	97
10:45	*	*	203	67	*	*	203	67
11:00	*	*	184	72	*	*	184	72
11:15	*	*	176	50	*	*	176	50
11:30	*	82	232	*	*	*	232	82
11:45	*	59	219	*	*	*	219	59
Total	0	141	4421	6933	0	0	4421	7074
Combined Total	141		11354		0		11495	
Peak Vol.			09:15	01:30			09:15	01:30
P.H.F.			826	874			826	874
			0.740	0.934			0.740	0.934
ADT	ADT 11,495		AADT 11,495					

Accident Summary Report (R-8)

Corridor: MILITARY RD,NW From GLOVER RD,NW TO FOURTEENTH ST,NW

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

Prepared Date: 9/17/2013

		Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Accident:	69	Right Angle:	8	11.6%	Fixed Object:	1	1.4%
Total Number of Fatalities:	0	Left Turn:	7	10.1%	Ran Off Road:	1	1.4%
Total Number of Injuries:	41	Right Turn:	2	2.9%	Ped. Involved:	1	1.4%
Total Number of Disabling Injuries:	2	Rear End:	30	43.5%	Backing:	1	1.4%
Total Number of NonDisabling Injuries:	9	Side Swiped:	8	11.6%	Non Collision:	1	1.4%
Total Number of Pedestrians Involved:	1	Head On:	4	5.8%	Under/Over Ride:	0	0.0%
Total Number of Bicycles Involved:	0	Parked:	0	0.0%	Unspecified:	5	7.2%
Total Number of Motorcycles Involved:	1						

Time of Day	#ACC	%	Day o fweek	#ACC	%
07:30 ~ 09:30:	9	13.0%	Sunday:	11	15.9%
09:30 ~ 11:30:	5	7.2%	Monday:	11	15.9%
11:30 ~ 13:30:	11	15.9%	Tuesday:	11	15.9%
13:30 ~ 16:00:	11	15.9%	Wednesday:	13	18.8%
16:00 ~18:30:	12	17.4%	Thursday:	5	7.2%
18:30 ~ 07:30:	21	30.4%	Friday:	13	18.8%
Unspecified:	0	0.0%	Saturday:	5	7.2%

Weather Condition	#ACC	%	Surface Condition	#ACC	%
Clear:	45	65.2%	Dry:	45	65.2%
Rain:	12	17.4%	Wet:	17	24.6%
Snow:	4	5.8%	Snow/Ice:	6	8.7%
Sleet/Hail:	0	0.0%	Slush:	0	0.0%
Fog/Mist:	1	1.4%	Water/Sand:	0	0.0%
Crosswind/Blowing Sand:	1	1.4%	Repairing:	0	0.0%
Unspecified:	6	8.7%	Unspecified:	1	1.4%

Type of Vehicle	#VEH	%	Accident Severity Type	#ACC	%
Passenger Car:	107	83.6%	Fatal Collision:	0	0.0%
Bus:	5	3.9%	Injury Collision:	28	40.6%
Truck:	9	7.0%	PDO Collision:	41	59.4%
Taxi:	5	3.9%			
Minivan:	0	0.0%	Light Condition	#ACC	%
Police/Emergency Vehicle:	0	0.0%	Daylight:	50	72.5%
Motorcycle/Moped:	1	0.8%	Dawn/Dusk:	5	7.2%
Bicycle:	0	0.0%	Dark(Lighted):	9	13.0%
Fixed Object:	0	0.0%	Dark(Not Lighted):	2	2.9%
Unspecified:	1	0.8%	Dark(Unknown Lighting):	0	0.0%
			Unspecified:	3	4.3%

Contributing Factor	#VEH	%	Pedestrian Actions	#ACC	%
Driver: Speed:	7	5.5%	In Crosswalk with Signal:	0	0.0%
Driver: Alcohol/Drug:	0	0.0%	In Crosswalk against Signal:	0	0.0%
Driver: Electronic Device:	1	0.8%	In Crosswalk no Signal:	1	100.0%
Driver: Others:	22	17.2%	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:	98	76.6%	Unspecified:	0	0.0%

43 Records are not approved as of 9/17/2013 12:54:57 PM

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

Corridor: MILITARY RD,NW From GLOVER RD,NW TO FOURTEENTH ST,NW

Time Period Covered: From 08/31/2009 To 08/31/2011

Prepared By: Rahul Jain

Prepared Date: 11/18/2011

Total Number of Accident:	46	Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Fatalities:	0	Right Angle:	5	10.9%	Fixed Object:	2	4.3%
Total Number of Injuries:	26	Left Turn:	3	6.5%	Ran Off Road:	1	2.2%
Total Number of Disabling Injuries:	2	Right Turn:	1	2.2%	Ped. Involved:	1	2.2%
Total Number of NonDisabling Injuries:	7	Rear End:	21	45.7%	Backing:	0	0.0%
Total Number of Pedestrians Involved:	1	Side Swiped:	6	13.0%	Non Collision:	1	2.2%
Total Number of Bicycles Involved:	0	Head On:	2	4.3%	Under/Over Ride:	0	0.0%
Total Number of Motorcycles Involved:	1	Parked:	0	0.0%	Unspecified:	3	6.5%
Time of Day				#ACC	%	Day of week	
07:30 ~ 09:30:				5	10.9%	Sunday:	
09:30 ~ 11:30:				4	8.7%	Monday:	
11:30 ~ 13:30:				7	15.2%	Tuesday:	
13:30 ~ 16:00:				10	21.7%	Wednesday:	
16:00 ~ 18:30:				6	13.0%	Thursday:	
18:30 ~ 07:30:				14	30.4%	Friday:	
Unspecified:				0	0.0%	Saturday:	
Weather Condition				#ACC	%	Surface Condition	
Clear:				31	67.4%	Dry:	
Rain:				6	13.0%	Wet:	
Snow:				4	8.7%	Snow/Ice:	
Sleet/Hail:				0	0.0%	Slush:	
Fog/Mist:				0	0.0%	Water/Sand:	
Crosswind/Blowing Sand:				0	0.0%	Repairing:	
Unspecified:				5	10.9%	Unspecified:	
Type of Vehicle				#VEH	%	Accident Severity Type	
Passenger Car:				71	83.5%	Fatal Collision:	
Bus:				5	5.9%	Injury Collision:	
Truck:				5	5.9%	PDO Collision:	
Taxi:				3	3.5%	Light Condition	
Minivan:				0	0.0%	Daylight:	
Police/Emergency Vehicle:				0	0.0%	Dawn/Dusk:	
Motorcycle/Moped:				1	1.2%	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:				4	4.7%	In Crosswalk with Signal:	
Driver: Alcohol/Drug:				0	0.0%	In Crosswalk against Signal:	
Driver: Electronic Device:				1	1.2%	In Crosswalk no Signal:	
Driver: Others:				12	14.1%	In Unmarked Crosswalk:	
Vehicle:				0	0.0%	Not in Crosswalk:	
Roadway:				0	0.0%	From Between Parked Cars:	
Unspecified:				68	80.0%	Unspecified:	

22 Records are not approved as of 11/18/2013 2:02:40 PM

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

Corridor: MILITARY RD,NW From GLOVER RD,NW TO FOURTEENTH ST,NW
Time Period Covered: From 09/01/2011 To 09/01/2013 **Prepared By:** Rahul Jain **Prepared Date:** 11/18/2013

Total Number of Accident:	33	Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Fatalities:	0	Right Angle:	4	12.1%	Fixed Object:	0	0.0%
Total Number of Injuries:	16	Left Turn:	4	12.1%	Ran Off Road:	0	0.0%
Total Number of Disabling Injuries:	0	Right Turn:	1	3.0%	Ped. Involved:	0	0.0%
Total Number of NonDisabling Injuries:	2	Rear End:	13	39.4%	Backing:	2	6.1%
Total Number of Pedestrians Involved:	0	Side Swiped:	5	15.2%	Non Collision:	0	0.0%
Total Number of Bicycles Involved:	0	Head On:	2	6.1%	Under/Over Ride:	0	0.0%
Total Number of Motorcycles Involved:	0	Parked:	0	0.0%	Unspecified:	2	6.1%
Time of Day				#ACC	%	Day of week	
07:30 ~ 09:30:				4	12.1%	Sunday:	
09:30 ~ 11:30:				1	3.0%	Monday:	
11:30 ~ 13:30:				4	12.1%	Tuesday:	
13:30 ~ 16:00:				2	6.1%	Wednesday:	
16:00 ~ 18:30:				9	27.3%	Thursday:	
18:30 ~ 07:30:				13	39.4%	Friday:	
Unspecified:				0	0.0%	Saturday:	
5						3	
9.1%							
Weather Condition				#ACC	%	Surface Condition	
Clear:				20	60.6%	Dry:	
Rain:				10	30.3%	Wet:	
Snow:				0	0.0%	Snow/Ice:	
Sleet/Hail:				0	0.0%	Slush:	
Fog/Mist:				1	3.0%	Water/Sand:	
Crosswind/Blowing Sand:				1	3.0%	Repairing:	
Unspecified:				1	3.0%	Unspecified:	
1						3.0%	
Type of Vehicle				#VEH	%	Accident Severity Type	
Passenger Car:				52	77.6%	Fatal Collision:	
Bus:				1	1.5%	Injury Collision:	
Truck:				4	6.0%	PDO Collision:	
Taxi:				4	6.0%	22	
Minivan:				0	0.0%	66.7%	
Police/Emergency Vehicle:				1	1.5%	Light Condition	
Motorcycle/Moped:				0	0.0%	#ACC	
Bicycle:				0	0.0%	%	
Fixed Object:				0	0.0%	Daylight:	
Unspecified:				5	7.5%	Dawn/Dusk:	
5						Dark(Lighted):	
7.5%						Dark(Not Lighted):	
						Dark(Unknown Lighting):	
						Unspecified:	
						1	
						3.0%	
Contributing Factor				#VEH	%	Pedestrian Actions	
Driver: Speed:				3	4.5%	#ACC	
Driver: Alcohol/Drug:				0	0.0%	%	
Driver: Electronic Device:				0	0.0%	In Crosswalk with Signal:	
Driver: Others:				14	20.9%	In Crosswalk against Signal:	
Vehicle:				0	0.0%	In Crosswalk no Signal:	
Roadway:				0	0.0%	In Unmarked Crosswalk:	
Unspecified:				50	74.6%	Not in Crosswalk:	
50						From Between Parked Cars:	
74.6%						Unspecified:	
						0	
						0.0%	

22 Records are not approved as of 11/18/2013 1:59:10 PM