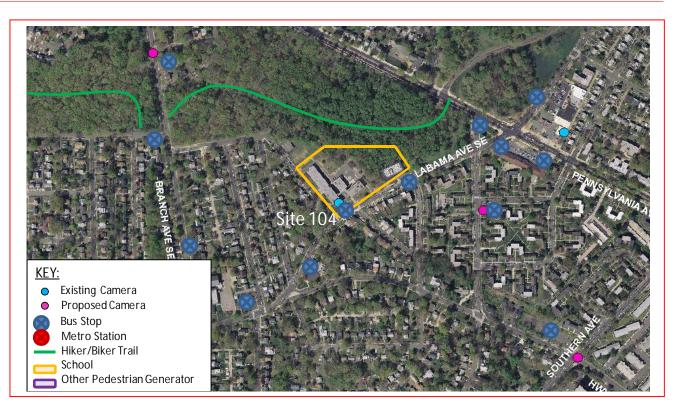




Speed Limit and Safety Nexus Studies for Automated Enforcement Locations in the District of Columbia 3600 Block Alabama Avenue SE

Study	Area	and Loo	cation		
District	PSA	Ward	ANC	Phase	Description
6	607	7	7B	Existing	3600 Block Alabama Avenue Southeast
					Northeast-bound



The existing speed camera is located in Ward 7 at the 3600 block of Alabama Avenue Southeast in the northeast-bound direction. Alabama Avenue runs between E Street Southeast to the north and Martin Luther King Jr. Avenue Southeast to the south. The posted speed limit is 30 MPH. This speed camera was installed in July 2005.

W7 - 197





District Department of Transportation 3600 Block Alabama Avenue SE

Field Assessment Summary

Alabama Avenue is assumed to run in a northeast-southwest direction, and is classified as a minor arterial. Alabama Avenue has one travel lane in each direction. This site has the following characteristics:

- This is a residential area with houses and driveways.
- There is one school in the area: Anne Beers Elementary School.
- Francis A Gregory Library is in the area which generates pedestrian and bicycle activity.
- There are two bike trails in the area.
- There is sidewalk on both sides of the street and crosswalks at 36th Street, 36th Place to the north, 36th Place to the south, 37th Street, and another in front of Beers Elementary School.
- There are traffic signals with pedestrian signals at 36th Street and both the north and south legs of 36th Place.
- There is on-street parking on the north side of the road near 37th Street, but it is restricted during school hours.
- The pavement is in good condition and there is curb and gutter with drainage inlets.
- There are bus stops in both directions at 36th Street and in between the north and south legs of 36th Place. There is one more bus stop eastbound at 37th Street.



Looking Northeast-bound

W7 - 198







Speed Data Analysis

	Northeast-Bound
Posted Speed Limit (MPH)	30
Mean Speed (MPH)	22
85th Percentile Speed (MPH)	29
10 MPH Pace Speed	21-30
ADT	4,617

The mean speed and the 85th percentile speed are both lower than the posted speed limit at this location. The 85th percentile speed is 1 MPH lower than the posted speed limit.

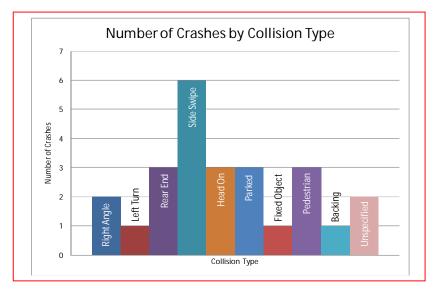
Crash Data Analysis

From the Accident Summary Report provided for the dates between January 1, 2010 and December 31, 2012, there were a total of 25 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 collision at this location was Side Swipe (6 crashes). The other collision types had three crashes or less each. Furthermore, this site experienced a high frequency (9 crashes) of injury-related crashes.



d.
District Department of Transportation
3600 Block Alabama Avenue SE

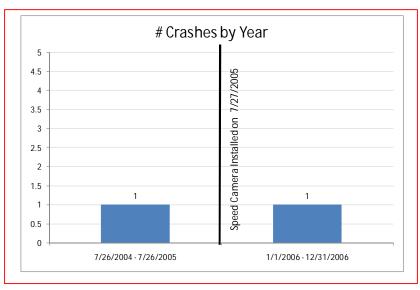
 Severity			Weather			Surface	conditi	on	Light Condition		
Total	25										
Fatal	1	4.0%	Clear	19	76.0%	Dry	20	80.0%	Day	15	60.0%
Injury	9	36.0%	Rain	4	16.0%	Wet	3	12.0%	Night	9	36.0%
Bus	2	8.0%	Snow	1	4.0%	Snow/Ice	1	4.0%			
Truck	1	4.0%									



This speed camera was installed on 7/27/2005. A graph of number of crashes by year for the year before the installation and the year after the installation can be found on the next page. There was one crash the year before installation and one crash the year after installation. The one crash in the year before installation involved an injury, and the one crash in the year after installation involved an injury.







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 travel speeds being lower than the posted speed limit.
- 2. Crash Data This location experienced a high frequency (9 crashes) of injury-related crashes.
- 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.
 - b. There is one school in the area: Anne Beers Elementary School.
 - c. There are two bike trails in the area which generate pedestrian and bicycle activity.
 - d. Francis A Gregory Library is in the area which generates pedestrian and bicycle activity.
 - e. There are several bus stops in the area which generate pedestrian activity.
 - f. There is on-street parking on the north side of the street near 37th Street.

Although the speed data analysis showed the mean and 85th percentile speeds to be lower than the posted speed limit, the elevated number of injury-related crashes, the specific site characteristics, and 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

3600 block of Alabama Ave SE 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
11/23/13	31	6	19	13	3	0	0	0	0	0	0	0	0	0	72
01:00	55	9	23	20	2	0	0	0	0	0	0	0	0	0	109
02:00	45	3	22	15	4	0	0	0	0	0	0	0	0	0	89
03:00	28	6	19	16	3	0	0	0	0	0	0	0	0	0	72
04:00	25	1	11	7	2	0	0	0	0	0	0	0	0	0	46
05:00	36	7	17	9	0	1	0	0	0	0	0	0	0	0	70
06:00	3	3	9	26	10	1	0	0	0	0	0	0	0	0	52
07:00	2	5	30	35	17	4	0	0	0	0	0	0	0	0	93
08:00	18	3	50	48	19	9	2	0	0	0	0	0	0	0	149
09:00	10	30	84	73	25	5	0	0	0	0	0	0	0	0	227
10:00	11	53	113	77	17	2	0	0	0	0	0	0	0	0	273
11:00	15	37	96	91	23	3	0	0	0	0	0	0	0	0	265
12 PM	33	60	115	56	13	2	2	0	0	1	0	0	0	0	282
13:00	11	21	112	111	19	2	0	0	0	0	0	0	0	0	276
14:00	16	48	116	100	23	5	0	0	0	0	0	0	0	0	308
15:00	7	19	136	81	42	1	0	0	0	0	0	0	0	0	286
16:00	28	45	112	109	14	2	0	0	0	0	0	0	0	0	310
17:00	24	60	87	64	11	1	0	1	0	0	0	0	0	0	248
18:00	14	27	100	76	12	4	0	0	0	0	0	1	0	0	234
19:00	8	10	74	71	18	4	0	0	0	0	0	0	0	0	185
20:00	8	15	80	74	28	0	0	0	0	0	0	0	0	0	205
21:00	6	11	93	97	40	5	0	0	0	0	0	0	0	0	252
22:00	12	15	101	107	48	3	1	0	0	0	0	0	0	0	287
23:00	8	13	73	44	34	5	2	0	0	1	0	0	0	0	180
Total	454	507	1692	1420	427	59	7	1	0	2	0	1	0	0	4570

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD MOUNT AIRY, MD 21771

www.sammateng.com

3600 block of Alabama Ave SE 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
11/24/13	1	2	21	11	10	2	0	0	0	0	0	0	0	0	47
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	1	2	21	11	10	2	0	0	0	0	0	0	0	0	47
Grand Total	455	509	1713	1431	437	61	7	1	0	2	0	1	0	0	4617
Stats		М	50th F 85th F	Percentile : Percentile : Percentile : Percentile :		12 MPH 23 MPH 29 MPH 32 MPH 22 MPH									

tats	Mean Speed(Average) :	22 MPH
	10 MPH Pace Speed :	21-30 MPH
	Number in Pace :	2540
	Percent in Pace :	55.0%
	Number of Vehicles > 30 MPH :	554
	Percent of Vehicles > 30 MPH :	12.0%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD MOUNT AIRY, MD 21771

www.sammateng.com

3600 block of Alabama Ave SE NEB Volume

Start	Sat	23-Nov-13	Sun	24-Nov-13	Mon	25-Nov-13	Daily A	
Time	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	*	66	27	*	*	*	27	66
12:15	*	80	20	*	*	*	20	80
12:30 12:45	38	67	*	*	*	*	38	67
12:45	34	69	*	*	*	*	34	69
01:00	27	83	*	*	*	*	27	83
01:15	29	56	*	*	*	*	29	56
01:30	30	60	*	*	*	*	30	60
01:45	23	77	*	*	*	*	30 23	77
02:00	28	95	*	*	*	*	28	95
02:15	19	70	*	*	*	*	19	70
02:30	28	65	*	*	*	*	28	65
02:45	14	78	*	*	*	*	14	78
03:00	26	61	*	*	*	*	26	61
03:15	18	70	*	*	*	*	18	70
03:30	8	77	*	*	*	*	8	77
03:45	20	78	*	*	*	*	20	78
04:00	14	70	*	*	*	*	14	70
04:15	13	74	*	*	*	*	13	74
04:30	13	90	*	*	*	*	13	90
04:45	6	76	*	*	*	*	13 6	76
05:00	16	75	*	*	*	*	16	75
05:15	17	54	*	*	*	*	17	54
05:30	16	59	*	*	*	*	16	59
05:45	21	60	*	*	*	*	21	60
05:45	7	65	*	*	*	*	7	65
06:15	14	49	*	*	*	*	14	49
06:30	14		*	*	*	*	14	
06:30	1/	57 63	*	*	*	*	17	57
06:45	14		*	*	*	*	14	63
07:00	24	39 52	*	*	*	*	24	39
07:15	15		*	*	*	*	15	52
07:30	23	50	*	*	*	*	23	50
07:45	31	44	*	*	*	*	31	44
08:00	40	51	*	*	*	*	40	51
08:15	26	39	*		*		26	39
08:30	39	48		*		*	39	48
08:45	44	67	*	*	*	*	44	67
09:00	45	60	*	*	*	*	45	60
09:15	54	65	*	*	*	*	54	65
09:30	60	58	*	*	*	*	60	58
09:45	68	69	*	*	*	*	68	69
10:00	72	76	*	*	*	*	72	76
10:15	63	67	*	*	*	*	63	67
10:30	71	71	*	*	*	*	71	71
10:45	67	73	*	*	*	*	67	73
11:00	70	64	*	*	*	*	70	64
11:15	68	63	*	*	*	*	68	63
11:30	62	32	*	*	*	*	62	32
11:45	65	21	*	*	*	*	65	21
Total	1517	3053	47	0	0	0	1564	3053
Combined		70	4	-				
Total	45	/0	47	/	C)	4617	
Peak	10:30	04:15					10:30	04:15
Vol.	276	315					276	315
P.H.F.	0.958	0.875					0.958	0.875
ADT		ADT 4,617	AADT 4,617	_				

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

	From 01/01/20		D RD,SE TO THIF 1/2012 Prepa r		Rahul Jain	Prepared Da	te: 1	11/25/201
Total Number of Accident:		25	Collision Type	-		Collision Type	#ACC	; %
Total Number of Fatalities:		1	Right Angle:	2		ixed Object:	1	4.0%
Total Number of Injuries:		19	Left Turn:	1		Ran Off Road:	0	0.0%
Total Number of Disabling	Iniuries:	1	Right Turn:	0		Ped. Involved:	3	12.0%
Total Number of NonDisab		4	Rear End:	3		Backing:	1	4.0%
Total Number of Pedestria		3	Side Swiped:	6		Non Collision:	0	0.0%
Total Number of Bicycles I	nvolved:	0	Head On:	3		Jnder/Over Ride	0	0.0%
Total Number of Motorcycl	es Involved:	1	Parked:	3	12.0% l	Inspecified:	2	8.0%
Time of Day	#ACC	%	,		Day o fweek	#AC	c	%
07:30 ~ 09:30:	4	16.0%	,		Sunday:	5		20.0%
09:30 ~ 11:30:	0	0.0%	,		Monday:	3		12.0%
11:30 ~ 13:30:	5	20.0%			Tuesday:	2		8.0%
13:30 ~ 16:00:	2	8.0%	,		Wednesday:	3		12.0%
16:00 ~18:30:	3	12.0%	,		Thursday:	5		20.0%
18:30 ~ 07:30:	11	44.0%			Friday:	4		16.0%
Unspecified:	0	0.0%			Saturday:	3		12.0%
Weather Condition	#ACC	%	,		Surface Condition	#AC	c	%
Clear:	19	76.0%			Dry:	20		80.0%
Rain:	4	16.0%			Wet:	3		12.0%
Snow:	1	4.0%			Snow/Ice:	1		4.0%
Sleet/Hail:	1	4.0%			Slush:	1		4.0%
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 #AC	c	%
Passenger Car:	46	85.2%			Fatal Collision:	1		4.0%
Bus:	2	3.7%	,		Injury Collision:	9		36.0%
Truck:	1	1.9%			PDO Collision:	15		60.0%
Taxi:	0	0.0%	, –					
Minivan:	0	0.0%	,		Light Condition	#AC	C	%
Police/Emergency Vehicle	: 1	1.9%	,		Daylight:	15		60.0%
Motorcycle/Moped:	1	1.9%			Dawn/Dusk:	0		0.0%
Bicycle:	0	0.0%			Dark(Lighted):	9		36.0%
Fixed Object:	0	0.0%	,		Dark(Not Lighted):	0		0.0%
Unspecified:	3	5.6%			Dark(Unknown Ligh	ting): 0		0.0%
					Unspecified:	1		4.0%
Contributing Factor	#VEH	%			Pedestrian Actions		C	%
Driver: Speed:	3	5.6%			In Crosswalk with S	-		33.3%
Driver: Alcohol/Drug:	2	3.7%			In Crosswalk agains	-		0.0%
Driver: Electronic Device:	0	0.0%			In Crosswalk no Sig	nal: 0		0.0%
Driver: Others:	9	16.7%			In Unmarked Cross	walk: 0		0.0%
Vehicle:	0	0.0%			Not in Crosswalk:	1		33.3%
Roadway:	0	0.0%			From Between Park	ed Cars: 0		0.0%
Unspecified:	40	74.1%			Unspecified:	1		33.3%

16 Records are not approved as of 11/25/2013 1:05:54 PM

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

					THIRTY SIXTH PL (V			
Time Period Covered: F	rom 07/26/20	04 To 07/26	3/2005 Prepare	ed By:	Rahul Jain	Prepared Da	te:	11/19/20
Total Number of Accident:		1	Collision Type	#ACC		Collision Type	#AC	
Total Number of Fatalities:		0	Right Angle:	0		Fixed Object:	1	100.0%
Total Number of Injuries:		2	Left Turn:	0		Ran Off Road:	0	0.0%
Total Number of Disabling I		0	Right Turn:	0		Ped. Involved:	0	0.0%
Total Number of NonDisabli		0	Rear End:	0		Backing:	0	0.0%
Total Number of Pedestrian		0	Side Swiped:	0		Non Collision:	0	0.0%
Total Number of Bicycles In		0	Head On:	0		Jnder/Over Ride:	0	0.0%
Total Number of Motorcycle	es Involved:	0	Parked:	0	0.0% l	Jnspecified:	0	0.0%
Time of Day	#ACC	%			Day o fweek	#AC	C	%
07:30 ~ 09:30:	0	0.0%			Sunday:	1		100.0%
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:	0		0.0%
Weather Condition	#ACC	%			Surface Condition	#AC	C	%
Clear:	0	0.0%			Dry:	0		0.0%
Rain:	0	0.0%			Wet:	0		0.0%
Snow:	0	0.0%			Snow/Ice:	1		100.0%
Sleet/Hail:	1	100.0%			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	Tvpe #AC	C	%
Passenger Car:	0	0.0%			Fatal Collision:	0		0.0%
Bus:	0	0.0%			Injury Collision:	1		100.0%
Truck:	0	0.0%			PDO Collision:	0		0.0%
Taxi:	0	0.0%						
Minivan:	0	0.0%			Light Condition	#AC	C	%
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	100.0%			Dark(Unknown Ligh	ting): 1		100.0%
					Unspecified:	0		0.0%
Contributing Factor	#VEH	%			Pedestrian Actions	s #AC	C	%
Driver: Speed:	0	0.0%			In Crosswalk with S	ignal: 0		0.0%
Driver: Alcohol/Drug:	0	0.0%			In Crosswalk agains	st Signal: 0		0.0%
Driver: Electronic Device:	0	0.0%			In Crosswalk no Sig	nal: 0		0.0%
Driver: Others:	0	0.0%			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:	1	100.0%			Unspecified:	0		0.0%

1 Records are not approved as of 11/19/2013 3:02:01 PM

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

Corridor: ALABAMA	AVE,SE From From 01/01/200				Rahul Jain	Prepared Da	ate:	11/19/201
Total Number of Accident:		1	•	#ACC		•	#AC	۲۰ ۲۰
Total Number of Fatalities:		0	Collision Type Right Angle:	#ACC 0		Collision Type Fixed Object:	#AC	100.0%
Total Number of Injuries:		1	Left Turn:	0		Ran Off Road:	0	0.0%
Total Number of Disabling	Injurioo	1	Right Turn:	0		Ped. Involved:	0	0.0%
Total Number of NonDisab		0	Right Tuffi. Rear End:	0		Backing:	0	0.0%
Total Number of Pedestria		0	Side Swiped:	0		Non Collision:	0	0.0%
Total Number of Bicycles I		0	Head On:	0		Under/Over Ride		0.0%
Total Number of Motorcycle		0	Parked:	0		Unspecified:	0	0.0%
Time of Day	#ACC	%			Day o fweek	#A0	c	%
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:	1		100.0%
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:	0		0.0%
Weather Condition	#ACC	%			Surface Condition	n #AC	c	%
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 #AC	c	%
Passenger Car:	1	100.0%			Fatal Collision:	0		0.0%
Bus:	0	0.0%			Injury Collision:	1		100.0%
Truck:	0	0.0%			PDO Collision:	0		0.0%
Taxi:	0	0.0%						
Minivan:	0	0.0%			Light Condition	#AC	C	%
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:	0	0.0%			Dark(Unknown Ligh			100.0%
					Unspecified:	0		0.0%
Contributing Factor	#VEH	%			Pedestrian Action		c	%
Driver: Speed:	0	0.0%			In Crosswalk with S	0		0.0%
Driver: Alcohol/Drug:	0	0.0%			In Crosswalk again	-		0.0%
Driver: Electronic Device:	0	0.0%			In Crosswalk no Sig	-		0.0%
Driver: Others:	0	0.0%			In Unmarked Cross	swalk: 0		0.0%
Vehicle:	0	0.0%			Not in Crosswalk:	0		0.0%
Roadway:	0	0.0%			From Between Par	ked Cars: 0		0.0%
Unspecified:	1	100.0%			Unspecified:	0		0.0%

1 Records are not approved as of 11/19/2013 2:58:10 PM