



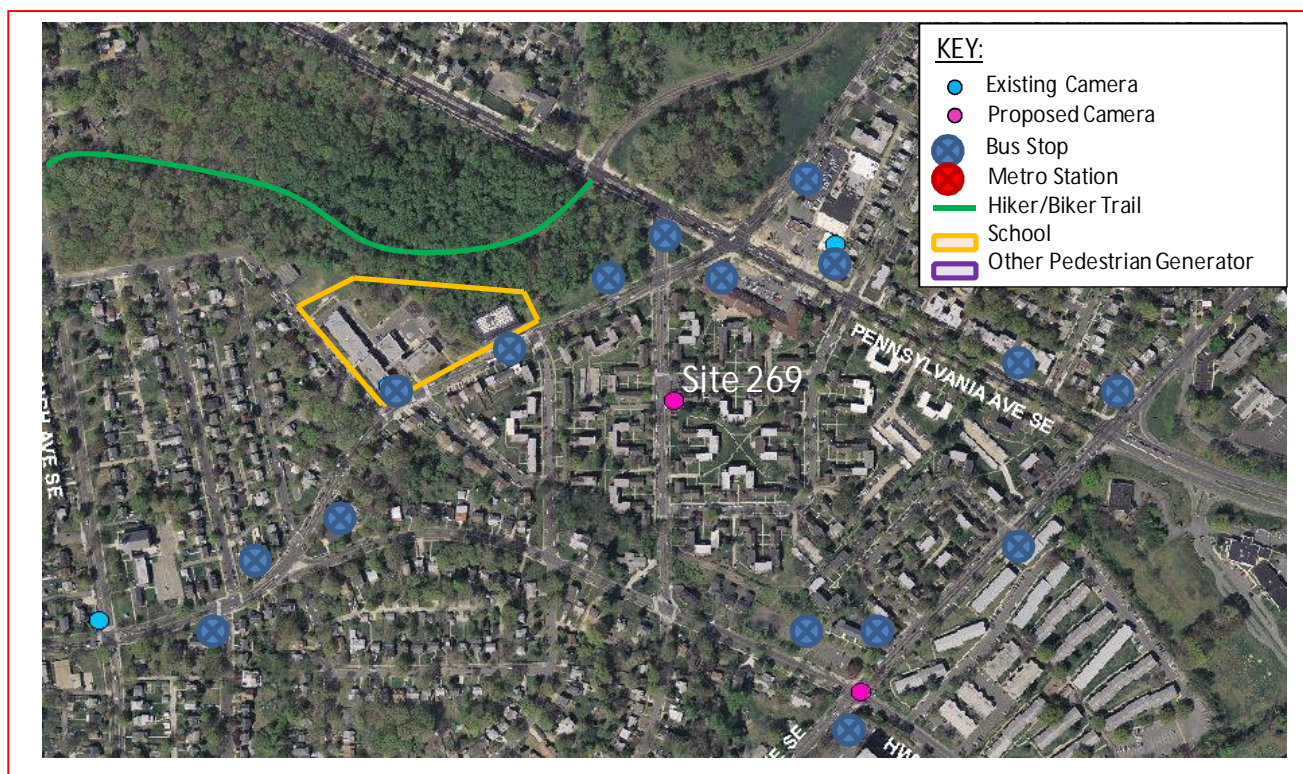
District Department of Transportation

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

### 2100 Block 38th Street SE

### Study Area and Location

District	PSA	Ward	ANC	Phase	Description
6	606	7	7B	Proposed	2100 Block 38 <sup>th</sup> Street Southeast



The *proposed* speed camera will be located in Ward 7 at the 2100 block of 38<sup>th</sup> Street Southeast. 38<sup>th</sup> Street Southeast runs between Pennsylvania Avenue Southeast to the north and Suitland Road Southeast to the south. The posted speed limit is 25 MPH.

W7 - 481





District Department of Transportation

2100 Block 38th Street SE

## Field Assessment Summary

38<sup>th</sup> Street Southeast runs in a north-south direction and is classified as a collector. 38<sup>th</sup> Street Southeast has one travel lane in each direction. This site has the following characteristics:

- This is a residential area with houses, apartments, and driveways.
- There is one school in the area: Beers Elementary School.
- The Francis A. Gregory Library is in the area and is a pedestrian activity generator.
- Fort Davis Park has a bike trail that goes through it.
- There are several bus stops in the area that generate pedestrian activity.
- There is sidewalk and on-street parking on both sides of the street.
- There is a crosswalk with an in-street pedestrian crossing sign north of V Street and another south of W Street.
- The pavement is in good condition and there is curb and gutter with drainage inlets. There are shared use bicycle pavement markings. There is a slight slope downgrade southbound.



Looking Northbound

W7 - 482



District Department of Transportation

2100 Block 38th Street SE



Looking Northbound

## Speed Data Analysis

	Northbound	Southbound
Posted Speed Limit (MPH)	25	25
Mean Speed (MPH)	13	12
85th Percentile Speed (MPH)	18	18
10 MPH Pace Speed	10-19	7-16
Sample Size	1,552	2,065
ADT	3,617	

The mean speed is lower than the posted speed limit in both directions and the 85<sup>th</sup> percentile speed is lower than the posted speed limit in both directions 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 15 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 Side Swipe (4 crashes). The other collision types had 2 crashes or less each. Furthermore, the site experienced 6 injury-related crashes.

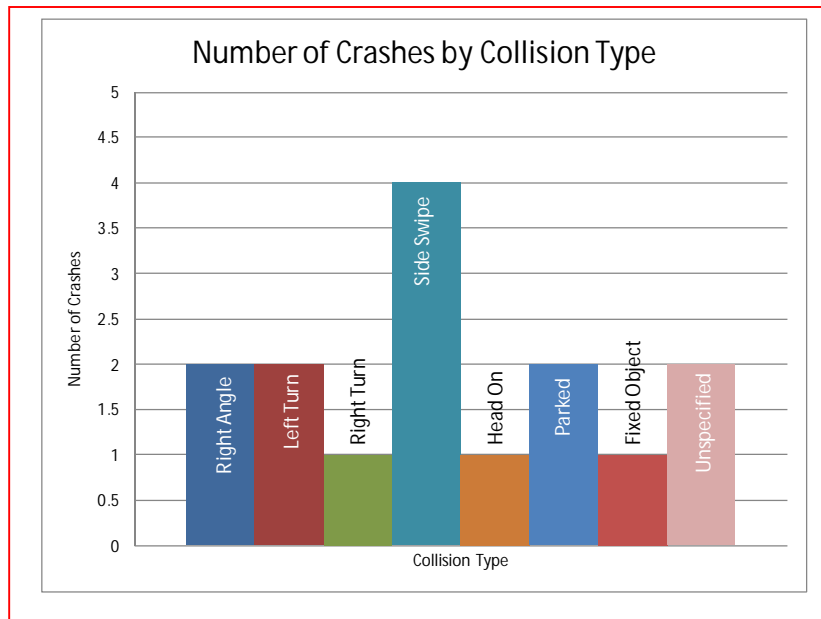
W7 - 483



District Department of Transportation

2100 Block 38th Street SE

Severity			Weather			Surface condition			Light Condition		
Total	15										
Fatal	0	0.0%	Clear	12	80.0%	Dry	12	80.0%	Day	10	66.7%
Injury	6	40.0%	Rain	0	0.0%	Wet	0	0.0%	Night	4	26.7%
Bus	3	20.0%	Snow	2	13.3%	Snow/Ice	2	13.3%			
Truck	1	6.7%									



## Safety Nexus

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

1. Speed Data – The mean and 85<sup>th</sup> percentile speed are lower in both directions than the posted speed limit at this location.
2. Crash Data – This location experienced 6 injury-related crashes.
3. Field Assessment – The following site characteristics suggest a need for a safer travel environment:
  - a. This is a residential area with houses, apartments, and driveways.
  - b. There is one school in the area: Beers Elementary School.
  - c. The Francis A. Gregory Library is in the area and is a pedestrian activity generator.
  - d. Fort Davis Park has a bike trail that goes through it.

W7 - 484



District Department of Transportation

2100 Block 38th Street SE

- e. There are several bus stops in the area that generate pedestrian activity.
- f. There is on-street parking on both sides of the street.

Although the speed data analysis showed the mean and 85<sup>th</sup> percentile speeds to be lower than the posted speed limit, due to the elevated number of injury-related crashes, the specific site characteristics, and other pedestrian generators, there is a nexus between traffic safety and the speed camera at this location.

W7 - 485

# SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD  
MOUNT AIRY, MD 21771

[www.sammateng.com](http://www.sammateng.com)

## 2100 block of 38th St SE Speed

NB

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/20/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	1	2	1	0	0	0	0	0	0	0	0	0	0	0	4
05:00	9	14	8	0	0	0	0	0	0	0	0	0	0	0	31
06:00	14	45	8	0	0	0	0	0	0	0	0	0	0	0	67
07:00	31	61	8	1	0	0	0	0	0	0	0	0	0	0	101
08:00	37	49	5	0	0	0	0	0	0	0	0	0	0	0	91
09:00	30	38	6	0	0	0	0	0	0	0	0	0	0	0	74
10:00	23	21	8	1	0	0	0	0	0	0	0	0	0	0	53
11:00	35	29	4	0	0	0	0	0	0	0	0	0	0	0	68
12 PM	26	44	1	0	0	0	0	0	0	0	0	0	0	0	71
13:00	21	40	3	0	0	0	0	0	0	0	0	0	0	0	64
14:00	24	32	7	0	0	0	0	0	0	0	0	0	0	0	63
15:00	47	47	8	0	0	0	0	0	0	0	0	0	0	0	102
16:00	46	60	6	0	0	0	0	0	0	0	0	0	0	0	112
17:00	46	82	11	0	0	0	0	0	0	0	0	0	0	0	139
18:00	74	69	10	0	0	0	0	0	0	0	0	0	0	0	153
19:00	43	53	3	1	0	0	0	0	0	0	0	0	0	0	100
20:00	34	41	3	0	0	0	0	0	0	0	0	0	0	0	78
21:00	33	22	4	0	0	0	0	0	0	0	0	0	0	0	59
22:00	17	25	5	0	0	0	0	0	0	0	0	0	0	0	47
23:00	9	24	5	0	0	0	0	0	0	0	0	0	0	0	38
Total	600	798	114	3	0	0	0	0	0	0	0	0	0	0	1515

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## 2100 block of 38th St SE Speed

NB

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/21/13	2	11	0	0	0	0	0	0	0	0	0	0	0	0	13
01:00	5	7	1	0	0	0	0	0	0	0	0	0	0	0	13
02:00	1	6	1	0	0	0	0	0	0	0	0	0	0	0	8
03:00	1	1	1	0	0	0	0	0	0	0	0	0	0	0	3
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	9	25	3	0	0	0	0	0	0	0	0	0	0	0	37
Grand Total	609	823	117	3	0	0	0	0	0	0	0	0	0	0	1552

15th Percentile : 6 MPH  
 50th Percentile : 13 MPH  
 85th Percentile : 18 MPH  
 95th Percentile : 21 MPH

Stats  
 Mean Speed(Average) : 13 MPH  
 10 MPH Pace Speed : 10-19 MPH  
 Number in Pace : 927  
 Percent in Pace : 59.7%  
 Number of Vehicles > 25 MPH : 11  
 Percent of Vehicles > 25 MPH : 0.7%

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## 2100 block of 38th St SE 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
11/20/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	5	2	1	2	0	0	0	0	0	0	0	0	0	0	10
05:00	30	24	4	0	0	0	0	0	0	0	0	0	0	0	58
06:00	46	43	13	1	0	0	0	0	0	0	0	0	0	0	103
07:00	105	84	24	2	0	0	0	0	0	0	0	0	0	0	215
08:00	77	63	17	1	0	0	0	0	0	0	0	0	0	0	158
09:00	36	46	12	2	0	0	0	0	0	0	0	0	0	0	96
10:00	47	34	12	1	0	0	0	0	0	0	0	0	0	0	94
11:00	32	34	13	1	0	0	0	0	0	0	0	0	0	0	80
12 PM	35	43	8	0	0	0	0	0	0	0	0	0	0	0	86
13:00	49	47	11	0	0	0	0	0	0	0	0	0	0	0	107
14:00	58	53	16	1	0	0	0	0	0	0	0	0	0	0	128
15:00	60	51	18	1	0	0	0	0	0	0	0	0	0	0	130
16:00	67	53	15	0	0	0	0	0	0	0	0	0	0	0	135
17:00	84	65	11	2	0	0	0	0	0	0	0	0	0	0	162
18:00	64	48	10	1	0	0	0	0	0	0	0	0	0	0	123
19:00	77	32	6	0	0	0	0	0	0	0	0	0	0	0	115
20:00	51	19	5	0	0	0	0	0	0	0	0	0	0	0	75
21:00	46	20	2	0	0	0	0	0	0	0	0	0	0	0	68
22:00	32	14	4	0	0	0	0	0	0	0	0	0	0	0	50
23:00	19	7	5	0	0	0	0	0	0	0	0	0	0	0	31
Total	1020	782	207	15	0	0	0	0	0	0	0	0	0	0	2024



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## 2100 block of 38th St SE Speed

SB

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/21/13	11	4	1	0	0	0	0	0	0	0	0	0	0	0	16
01:00	5	2	1	0	0	0	0	0	0	0	0	0	0	0	8
02:00	1	2	1	0	0	0	0	0	0	0	0	0	0	0	4
03:00	5	6	2	0	0	0	0	0	0	0	0	0	0	0	13
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	22	14	5	0	0	0	0	0	0	0	0	0	0	0	41
Grand Total	1042	796	212	15	0	0	0	0	0	0	0	0	0	0	2065

15th Percentile : 5 MPH  
 50th Percentile : 11 MPH  
 85th Percentile : 18 MPH  
 95th Percentile : 21 MPH

Stats  
 Mean Speed(Average) : 12 MPH  
 10 MPH Pace Speed : 7-16 MPH  
 Number in Pace : 1178  
 Percent in Pace : 57.0%  
 Number of Vehicles > 25 MPH : 24  
 Percent of Vehicles > 25 MPH : 1.2%

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1515 RISING RIDGE ROAD  
MOUNT AIRY, MD 21771

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## 2100 block of 38th St SE Volume

Start Time	20-Nov-13		NB		SB		Combined		21-Nov-Thu	NB		SB		Combined	
	Wed		A.M.	P.M.	A.M.	P.M.	A.M.	P.M.		A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	*		*	16	*	21	*	37		2	*		*		*
12:15	*		*	19	*	21	*	40		6	*		*	1	*
12:30	*		*	14	*	25	*	39		3	*		*	2	*
12:45	*		*	22	*	19	*	41		2	*		*	4	*
01:00	*		*	17	*	28	*	45		3	*		*	1	*
01:15	*		*	13	*	21	*	34		3	*		*	2	*
01:30	*		*	11	*	31	*	42		4	*		*	4	*
01:45	*		*	23	*	27	*	50		3	*		*	1	*
02:00	*		*	16	*	32	*	48		1	*		*	1	*
02:15	*		*	14	*	31	*	45		1	*		*	2	*
02:30	*		*	20	*	36	*	56		4	*		*	1	*
02:45	*		*	13	*	29	*	42		2	*		*	0	*
03:00	*		*	19	*	24	*	43		0	*		*	0	*
03:15	*		*	29	*	38	*	67		1	*		*	6	*
03:30	*		*	25	*	30	*	55		1	*		*	6	*
03:45	*		*	29	*	38	*	67		1	*		*	1	*
04:00	0			20	2	33	2	53		*	*		*	*	*
04:15	0			29	2	32	2	61		*	*		*	*	*
04:30	2			31	6	39	8	70		*	*		*	*	*
04:45	2			32	0	31	2	63		*	*		*	*	*
05:00	6			27	13	39	19	66		*	*		*	*	*
05:15	4			32	15	49	19	81		*	*		*	*	*
05:30	10			33	14	43	24	76		*	*		*	*	*
05:45	11			47	16	31	27	78		*	*		*	*	*
06:00	17			40	22	28	39	68		*	*		*	*	*
06:15	16			42	19	41	35	83		*	*		*	*	*
06:30	17			40	21	28	38	68		*	*		*	*	*
06:45	17			31	41	26	58	57		*	*		*	*	*
07:00	21			25	48	38	69	63		*	*		*	*	*
07:15	22			22	54	24	76	46		*	*		*	*	*
07:30				30	65	29	95	63		*	*		*	*	*
07:45				28	48	24	76	43		*	*		*	*	*
08:00				24	43	20	67	38		*	*		*	*	*
08:15				25	46	21	71	43		*	*		*	*	*
08:30				23	35	19	58	36		*	*		*	*	*
08:45				19	34	15	53	36		*	*		*	*	*
09:00				22	24	17	46	37		*	*		*	*	*
09:15				18	22	24	40	38		*	*		*	*	*
09:30				18	27	16	45	29		*	*		*	*	*
09:45				16	23	11	39	23		*	*		*	*	*
10:00				12	21	13	33	26		*	*		*	*	*
10:15				12	28	15	40	31		*	*		*	*	*
10:30				15	26	13	41	23		*	*		*	*	*
10:45				14	19	9	33	17		*	*		*	*	*
11:00				16	20	9	36	18		*	*		*	*	*
11:15				13	24	8	37	23		*	*		*	*	*
11:30				26	17	7	43	14		*	*		*	*	*
11:45				13	19	7	32	14		*	*		*	*	*

Total	489	1026	814	1210	1303	2236		37	0	41	0	78	0
Day Total	1515		2024		3539			37		41		78	
% Total	13.8%	29.0%	23.0%	34.2%			47.4%	0.0%	52.6%	0.0%			
Peak Vol.	07:30 107	05:45 169	07:00 215	04:45 162	07:00 316	05:30 305		00:15 14		12:00 16		12:00 29	
P.H.F.	0.892	0.899	0.827	0.827	0.832	0.919		0.583		0.444		0.659	

ADT ADT 3,617 AADT 3,617

**Accident Summary Report (R-8)****Corridor:** 38TH ST,SE From ALABAMA AVE,SE TO W ST,SE**Time Period Covered:** From 01/01/2010 To 12/31/2012**Prepared By:** Rahul Jain**Prepared Date:** 11/25/2012

		<b>Collision Type</b>	<b>#ACC</b>	<b>%</b>	<b>Collision Type</b>	<b>#ACC</b>	<b>%</b>
Total Number of Accident:	15	Right Angle:	2	13.3%	Fixed Object:	1	6.7%
Total Number of Fatalities:	0	Left Turn:	2	13.3%	Ran Off Road:	0	0.0%
Total Number of Injuries:	8	Right Turn:	1	6.7%	Ped. Involved:	0	0.0%
Total Number of Disabling Injuries:	1	Rear End:	0	0.0%	Backing:	0	0.0%
Total Number of NonDisabling Injuries:	0	Side Swiped:	4	26.7%	Non Collision:	0	0.0%
Total Number of Pedestrians Involved:	0	Head On:	1	6.7%	Under/Over Ride:	0	0.0%
Total Number of Bicycles Involved:	1	Parked:	2	13.3%	Unspecified:	2	13.3%
Total Number of Motorcycles Involved:	0						

<b>Time of Day</b>	<b>#ACC</b>	<b>%</b>	<b>Day of week</b>	<b>#ACC</b>	<b>%</b>
07:30 ~ 09:30:	2	13.3%	Sunday:	2	13.3%
09:30 ~ 11:30:	2	13.3%	Monday:	0	0.0%
11:30 ~ 13:30:	2	13.3%	Tuesday:	2	13.3%
13:30 ~ 16:00:	1	6.7%	Wednesday:	2	13.3%
16:00 ~ 18:30:	5	33.3%	Thursday:	3	20.0%
18:30 ~ 07:30:	3	20.0%	Friday:	3	20.0%
Unspecified:	0	0.0%	Saturday:	3	20.0%

<b>Weather Condition</b>	<b>#ACC</b>	<b>%</b>	<b>Surface Condition</b>	<b>#ACC</b>	<b>%</b>
Clear:	12	80.0%	Dry:	12	80.0%
Rain:	0	0.0%	Wet:	0	0.0%
Snow:	2	13.3%	Snow/Ice:	2	13.3%
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	6.7%	Unspecified:	1	6.7%

<b>Type of Vehicle</b>	<b>#VEH</b>	<b>%</b>	<b>Accident Severity Type</b>	<b>#ACC</b>	<b>%</b>
Passenger Car:	20	66.7%	Fatal Collision:	0	0.0%
Bus:	3	10.0%	Injury Collision:	6	40.0%
Truck:	1	3.3%	PDO Collision:	9	60.0%
Taxi:	0	0.0%			
Minivan:	0	0.0%	<b>Light Condition</b>	<b>#ACC</b>	<b>%</b>
Police/Emergency Vehicle:	0	0.0%	Daylight:	10	66.7%
Motorcycle/Moped:	0	0.0%	Dawn/Dusk:	0	0.0%
Bicycle:	1	3.3%	Dark(Lighted):	4	26.7%
Fixed Object:	0	0.0%	Dark(Not Lighted):	0	0.0%
Unspecified:	5	16.7%	Dark(Unknown Lighting):	0	0.0%
			Unspecified:	1	6.7%

<b>Contributing Factor</b>	<b>#VEH</b>	<b>%</b>	<b>Pedestrian Actions</b>	<b>#ACC</b>	<b>%</b>
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:	9	30.0%	In Unmarked Crosswalk:	0	0.0%
Vehicle:	0	0.0%	Not in Crosswalk:	0	0.0%
Roadway:	2	6.7%	From Between Parked Cars:	0	0.0%
Unspecified:	19	63.3%	Unspecified:	0	0.0%

9 Records are not approved as of 11/25/2013 2:01:01 PM