



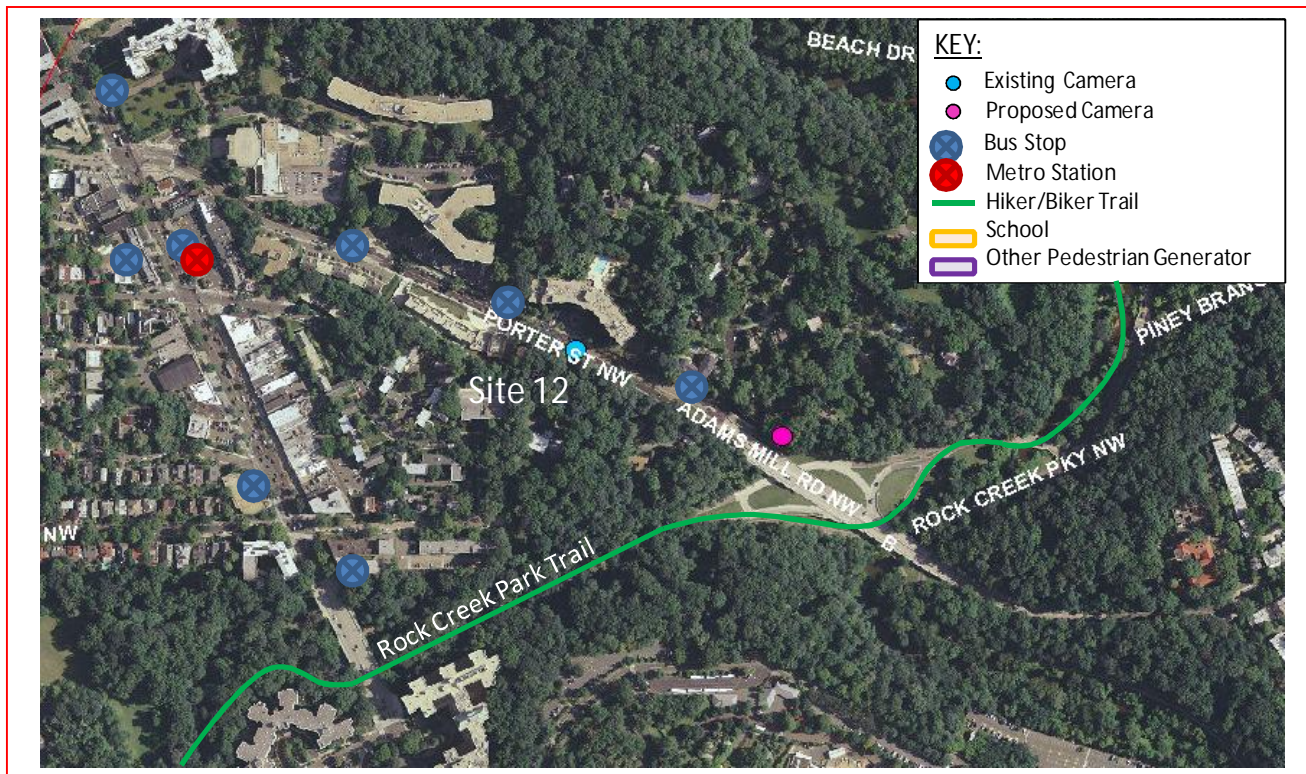
District Department of Transportation

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

2500 Block Porter Street NW

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
2	203	3	3C	Existing	2500 Block Porter Street Northwest, Westbound



This existing speed camera is located in Ward 3 at the 2500 block of Porter Street Northwest in the westbound direction. Porter Street runs between Piney Branch Parkway Northwest to the east and Connecticut Avenue Northwest to the west. The posted speed limit is 30 MPH. The existing speed camera was installed in October 2002.

W3 - 12





District Department of Transportation

2500 Block Porter Street NW

Field Assessment Summary

Porter Street is assumed to run in the East-west direction, and is classified as a minor arterial. Porter Street has two travel lanes in each direction. This site has the following characteristics:

- This site is located in a residential area with apartment buildings, driveways, sidewalks with curb and gutter, and on-street parking on both sides of the street.
- The existing pavement is in good condition. There is a downhill slope in the eastbound direction.
- The Rock Creek Park Trail runs perpendicular to Porter Street 0.2 miles to the east.
- There are multiple bus stops and one Metrorail Station in the area which generate pedestrian activity.



Looking Eastbound



District Department of Transportation

2500 Block Porter Street NW



Looking Westbound

Speed Data Analysis

Posted Speed Limit (MPH)	30
Mean Speed (MPH)	9
85th Percentile Speed (MPH)	12
10 MPH Pace Speed	4-13 MPH
ADT	10,547

Both the mean speed and the 85th percentile speeds are lower than the posted speed limit at this location. The 85th percentile speed is 18 MPH lower than the posted speed limit.

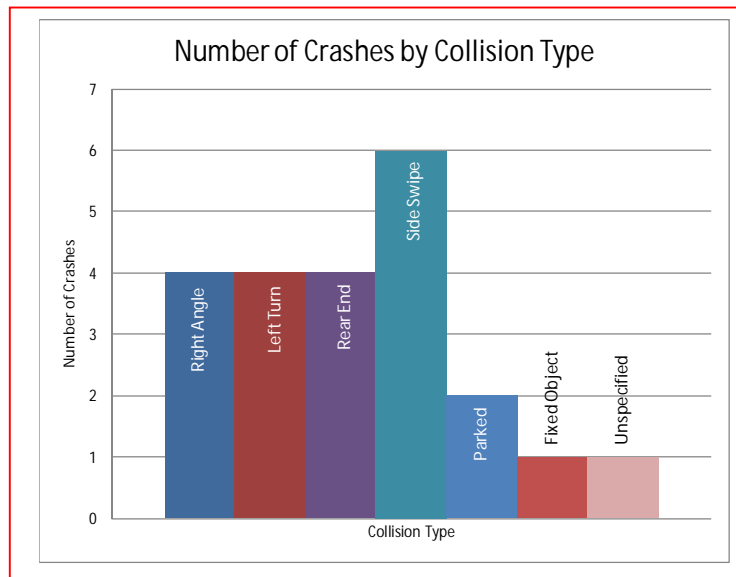
Crash Data Analysis

From the Accident Summary Report provided for the dates between January 1, 2010 and December 31, 2012, there were a total of 22 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 crashes at this location were Side Swipe (6 crashes), Right Angle (4 crashes), Left Turn (4 crashes), and Rear End (4 crashes). There were three buses and one bicycle involved in crashes at this location.

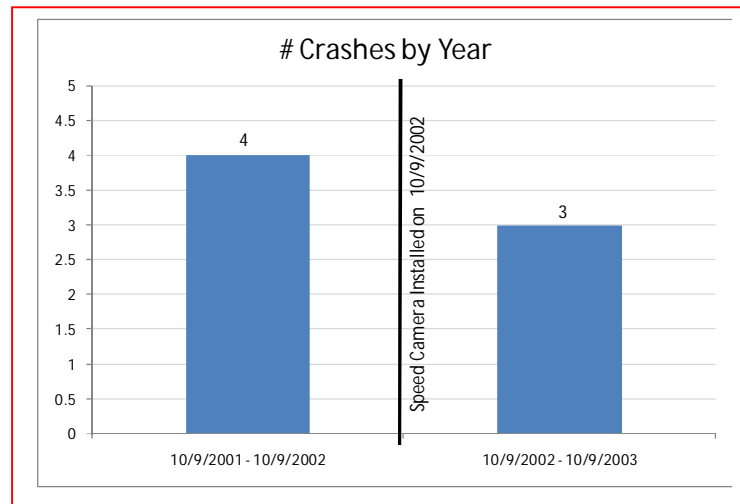


2500 Block Porter Street NW

Severity			Weather			Surface condition			Light Condition		
Total	22										
Fatal	0	0.0%	Clear	14	63.6%	Dry	15	68.2%	Day	14	63.6%
Injury	6	27.3%	Rain	5	22.7%	Wet	4	18.2%	Night	5	22.7%
Truck	3	13.6%	Snow	1	4.5%	Snow/Ice	1	4.5%			
Bus	3	13.6%									



This speed camera was installed on 10/10/2002. The graph on the next page shows the number of crashes in the two years prior to the speed camera's installation (4 crashes) and the two years after the speed camera's installation (3 crashes). There was a slight decrease, but no major change seen in number of crashes after the installation of the camera.



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 much lower than the posted speed limit.
2. Crash Data – The number of crashes decreased since installation of the speed camera.
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 and apartment buildings along both sides of the street.
 - b. Rock Creek Park Trail crosses Porter Street 0.2 miles to the east of this site which generates pedestrian and bicycle activity.
 - c. There are multiple bus stops and one Metrorail station in the area which generate pedestrian activity.

The speed data analysis showed the mean and 85th percentile speeds to be lower than the posted speed limit, and the crash data analysis showed a reduction in crashes since the installation of the speed camera. Due to the analysis results along with 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

2500 block of Porter Street NW WB Speed

WB	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	
11/05/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
04:00	20	0	0	0	0	0	0	0	0	0	0	0	0	0	20
05:00	82	0	0	0	0	0	0	0	0	0	0	0	0	0	82
06:00	200	0	0	0	0	0	0	0	0	0	0	0	0	0	200
07:00	362	0	0	0	0	0	0	0	0	0	0	0	0	0	362
08:00	430	0	0	0	0	0	0	0	0	0	0	0	0	0	430
09:00	399	0	0	0	0	0	0	0	0	0	0	0	0	0	399
10:00	397	0	0	0	0	0	0	0	0	0	0	0	0	0	397
11:00	400	1	0	0	0	0	0	0	0	0	0	0	0	0	401
12 PM	372	0	0	0	0	0	0	0	0	0	0	0	0	0	372
13:00	345	0	0	0	0	0	0	0	0	0	0	0	0	0	345
14:00	250	0	1	0	0	0	0	0	0	0	0	0	0	0	251
15:00	307	0	0	0	1	0	0	0	0	0	0	0	0	0	308
16:00	290	0	0	0	1	0	0	0	0	0	0	0	0	0	291
17:00	349	0	1	0	0	0	0	0	0	0	0	0	0	0	350
18:00	316	0	0	0	0	0	0	0	0	0	0	0	0	0	316
19:00	247	0	0	0	0	0	0	0	0	0	0	0	0	0	247
20:00	186	0	1	0	0	0	0	0	0	0	0	0	0	0	187
21:00	149	0	0	0	0	0	0	0	0	0	0	0	0	0	149
22:00	116	0	0	0	0	0	0	0	0	0	0	0	0	0	116
23:00	57	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Total	5286	1	3	0	2	0	0	0	0	0	0	0	0	0	5292

Daily

15th Percentile : 4 MPH
 50th Percentile : 8 MPH
 85th Percentile : 12 MPH
 95th Percentile : 14 MPH

Mean Speed(Average) : 9 MPH
 10 MPH Pace Speed : 4-13 MPH
 Number in Pace : 4260
 Percent in Pace : 80.5%
 Number of Vehicles > 30 MPH : 1
 Percent of Vehicles > 30 MPH : 0.0%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

2500 block of Porter Street NW WB Speed

WB

Start Time	15	16	21	26	31	36	41	46	51	56	61	66	71	76	Total
	20	25	30	35	40	45	50	55	60	65	70	75	999	76	
11/06/13	34	0	0	0	0	0	0	0	0	0	0	0	0	0	34
01:00	11	0	0	0	0	0	0	0	0	0	0	0	0	0	11
02:00	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
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	52	0	0	0	0	0	0	0	0	0	0	0	0	0	52

Daily

15th Percentile : 4 MPH
 50th Percentile : 8 MPH
 85th Percentile : 12 MPH
 95th Percentile : 14 MPH

Mean Speed(Average) : 9 MPH
 10 MPH Pace Speed : 4-13 MPH
 Number in Pace : 42
 Percent in Pace : 80.8%
 Number of Vehicles > 30 MPH : 0
 Percent of Vehicles > 30 MPH : 0.0%

Grand Total	5338	1	3	0	2	0	0	0	0	0	0	0	0	0	5344
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Overall

15th Percentile : 4 MPH
 50th Percentile : 8 MPH
 85th Percentile : 12 MPH
 95th Percentile : 14 MPH

Mean Speed(Average) : 9 MPH
 10 MPH Pace Speed : 4-13 MPH
 Number in Pace : 4302
 Percent in Pace : 80.5%
 Number of Vehicles > 30 MPH : 1
 Percent of Vehicles > 30 MPH : 0.0%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

2500 block of Porter Street NW WB 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	*	89	14	*	*	*	14	89
12:15	*	95	7	*	*	*	7	95
12:30	*	94	7	*	*	*	7	94
12:45	*	94	6	*	*	*	6	94
01:00	*	102	3	*	*	*	3	102
01:15	*	82	2	*	*	*	2	82
01:30	*	81	3	*	*	*	3	81
01:45	*	80	3	*	*	*	3	80
02:00	*	56	4	*	*	*	4	56
02:15	*	56	1	*	*	*	1	56
02:30	*	58	1	*	*	*	1	58
02:45	*	81	1	*	*	*	1	81
03:00	1	92	*	*	*	*	1	92
03:15	7	68	*	*	*	*	7	68
03:30	1	80	*	*	*	*	1	80
03:45	3	68	*	*	*	*	3	68
04:00	3	59	*	*	*	*	3	59
04:15	5	74	*	*	*	*	5	74
04:30	7	71	*	*	*	*	7	71
04:45	5	87	*	*	*	*	5	87
05:00	15	86	*	*	*	*	15	86
05:15	13	89	*	*	*	*	13	89
05:30	25	88	*	*	*	*	25	88
05:45	29	87	*	*	*	*	29	87
06:00	29	85	*	*	*	*	29	85
06:15	49	90	*	*	*	*	49	90
06:30	57	83	*	*	*	*	57	83
06:45	65	58	*	*	*	*	65	58
07:00	64	68	*	*	*	*	64	68
07:15	90	67	*	*	*	*	90	67
07:30	98	55	*	*	*	*	98	55
07:45	110	57	*	*	*	*	110	57
08:00	109	51	*	*	*	*	109	51
08:15	112	51	*	*	*	*	112	51
08:30	111	51	*	*	*	*	111	51
08:45	98	34	*	*	*	*	98	34
09:00	85	32	*	*	*	*	85	32
09:15	87	45	*	*	*	*	87	45
09:30	112	32	*	*	*	*	112	32
09:45	115	40	*	*	*	*	115	40
10:00	104	33	*	*	*	*	104	33
10:15	101	25	*	*	*	*	101	25
10:30	86	29	*	*	*	*	86	29
10:45	106	29	*	*	*	*	106	29
11:00	112	20	*	*	*	*	112	20
11:15	84	16	*	*	*	*	84	16
11:30	104	10	*	*	*	*	104	10
11:45	101	11	*	*	*	*	101	11
Total	2303	2989	52	0	0	0	2355	2989
Combined Total	5292		52		0		5344	
Peak	07:45	00:15	12:00				07:45	00:15
Vol.	442	385	34				442	385
P.H.F.	0.987	0.944	0.607				0.987	0.944
ADT		ADT 5,344	AADT 5,344					

Accident Summary Report (R-8)

Corridor: PORTER ST,NW From QUEBEC ST,NW TO WILLIAMSBURG LN,NW

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

Prepared Date: 10/6/2013

Total Number of Accident:	22	Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Fatalities:	0	Right Angle:	4	18.2%	Fixed Object:	1	4.5%
Total Number of Injuries:	9	Left Turn:	4	18.2%	Ran Off Road:	0	0.0%
Total Number of Disabling Injuries:	1	Right Turn:	0	0.0%	Ped. Involved:	0	0.0%
Total Number of NonDisabling Injuries:	2	Rear End:	4	18.2%	Backing:	0	0.0%
Total Number of Pedestrians Involved:	0	Side Swiped:	6	27.3%	Non Collision:	0	0.0%
Total Number of Bicycles Involved:	1	Head On:	0	0.0%	Under/Over Ride:	0	0.0%
Total Number of Motorcycles Involved:	0	Parked:	2	9.1%	Unspecified:	1	4.5%
Time of Day				Day o fweek			
	#ACC	%			#ACC	%	
07:30 ~ 09:30:	5	22.7%		Sunday:	1	4.5%	
09:30 ~ 11:30:	0	0.0%		Monday:	5	22.7%	
11:30 ~ 13:30:	6	27.3%		Tuesday:	3	13.6%	
13:30 ~ 16:00:	2	9.1%		Wednesday:	3	13.6%	
16:00 ~18:30:	1	4.5%		Thursday:	4	18.2%	
18:30 ~ 07:30:	8	36.4%		Friday:	3	13.6%	
Unspecified:	0	0.0%		Saturday:	3	13.6%	
Weather Condition				Surface Condition			
	#ACC	%			#ACC	%	
Clear:	14	63.6%		Dry:	15	68.2%	
Rain:	5	22.7%		Wet:	4	18.2%	
Snow:	1	4.5%		Snow/Ice:	1	4.5%	
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:	2	9.1%		Unspecified:	2	9.1%	
Type of Vehicle				Accident Severity Type			
	#VEH	%			#ACC	%	
Passenger Car:	36	75.0%		Fatal Collision:	0	0.0%	
Bus:	3	6.3%		Injury Collision:	6	27.3%	
Truck:	3	6.3%		PDO Collision:	16	72.7%	
Taxi:	1	2.1%		Light Condition			
Minivan:	0	0.0%			#ACC	%	
Police/Emergency Vehicle:	0	0.0%		Daylight:	14	63.6%	
Motorcycle/Moped:	0	0.0%		Dawn/Dusk:	0	0.0%	
Bicycle:	1	2.1%		Dark(Lighted):	5	22.7%	
Fixed Object:	0	0.0%		Dark(Not Lighted):	0	0.0%	
Unspecified:	4	8.3%		Dark(Unknown Lighting):	0	0.0%	
				Unspecified:	3	13.6%	
Contributing Factor				Pedestrian Actions			
	#VEH	%			#ACC	%	
Driver: Speed:	1	2.1%		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:	6	12.5%		In Unmarked Crosswalk:	0	0.0%	
Vehicle:	0	0.0%		Not in Crosswalk:	0	0.0%	
Roadway:	1	2.1%		From Between Parked Cars:	0	0.0%	
Unspecified:	40	83.3%		Unspecified:	0	0.0%	

14 Records are not approved as of 10/6/2013 12:55:18 PM

Accident Summary Report (R-8)**Corridor:** PORTER ST,NW From QUEBEC ST,NW TO WILLIAMSBURG LN,NW**Time Period Covered:** From 10/09/2001 To 10/09/2002 **Prepared By:** Rahul Jain**Prepared Date:** 11/19/201

		Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Accident:	4	Right Angle:	1	25.0%	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:	1	25.0%
Total Number of NonDisabling Injuries:	0	Side Swiped:	2	50.0%	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:	0	0.0%	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:	2	50.0%	Monday:	0	0.0%
11:30 ~ 13:30:	0	0.0%	Tuesday:	0	0.0%
13:30 ~ 16:00:	0	0.0%	Wednesday:	2	50.0%
16:00 ~18:30:	0	0.0%	Thursday:	1	25.0%
18:30 ~ 07:30:	2	50.0%	Friday:	0	0.0%
Unspecified:	0	0.0%	Saturday:	1	25.0%

Weather Condition	#ACC	%	Surface Condition	#ACC	%
Clear:	3	75.0%	Dry:	3	75.0%
Rain:	1	25.0%	Wet:	1	25.0%
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:	7	87.5%	Fatal Collision:	0	0.0%
Bus:	0	0.0%	Injury Collision:	0	0.0%
Truck:	0	0.0%	PDO Collision:	4	100.0%
Taxi:	1	12.5%			
Minivan:	0	0.0%	Light Condition	#ACC	%
Police/Emergency Vehicle:	0	0.0%	Daylight:	3	75.0%
Motorcycle/Moped:	0	0.0%	Dawn/Dusk:	1	25.0%
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:	4	50.0%	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:	4	50.0%	Unspecified:	0	0.0%

4 Records are not approved as of 11/19/2013 1:32:33 PM

Accident Summary Report (R-8)

Corridor: PORTER ST,NW From QUEBEC ST,NW TO WILLIAMSBURG LN,NW
Time Period Covered: From 01/01/2004 To 12/31/2004 **Prepared By:** Rahul Jain **Prepared Date:** 11/19/2013

		Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Accident:	3	Right Angle:	0	0.0%	Fixed Object:	0	0.0%
Total Number of Fatalities:	0	Left Turn:	1	33.3%	Ran Off Road:	0	0.0%
Total Number of Injuries:	2	Right Turn:	0	0.0%	Ped. Involved:	0	0.0%
Total Number of Disabling Injuries:	1	Rear End:	1	33.3%	Backing:	1	33.3%
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:	0	0.0%	Unspecified:	0	0.0%
Total Number of Motorcycles Involved:	0						

Time of Day	#ACC	%	Day of week	#ACC	%
07:30 ~ 09:30:	1	33.3%	Sunday:	0	0.0%
09:30 ~ 11:30:	0	0.0%	Monday:	0	0.0%
11:30 ~ 13:30:	1	33.3%	Tuesday:	1	33.3%
13:30 ~ 16:00:	0	0.0%	Wednesday:	0	0.0%
16:00 ~ 18:30:	0	0.0%	Thursday:	1	33.3%
18:30 ~ 07:30:	1	33.3%	Friday:	0	0.0%
Unspecified:	0	0.0%	Saturday:	1	33.3%

Weather Condition	#ACC	%	Surface Condition	#ACC	%
Clear:	2	66.7%	Dry:	2	66.7%
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:	1	33.3%	Unspecified:	1	33.3%

Type of Vehicle	#VEH	%	Accident Severity Type	#ACC	%
Passenger Car:	5	100.0%	Fatal Collision:	0	0.0%
Bus:	0	0.0%	Injury Collision:	1	33.3%
Truck:	0	0.0%	PDO Collision:	2	66.7%
Taxi:	0	0.0%			
Minivan:	0	0.0%	Light Condition	#ACC	%
Police/Emergency Vehicle:	0	0.0%	Daylight:	3	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:	2	40.0%	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:	3	60.0%	Unspecified:	0	0.0%

3 Records are not approved as of 11/19/2013 1:35:27 PM