



District Department of Transportation

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

1700 Block North Portal Drive NW

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
4	401	4	4A	Existing	1700 Block North Portal Drive Northwest Southwest-bound



The existing speed camera is located in Ward 4 at the 1700 Block of North Portal Drive Northwest in the southwest-bound direction. This location is between the intersections of Birch Drive Northwest and East Beach Drive Northwest. North Portal Drive runs from 16th Street Northwest in the north to East Beach Drive Northwest in the south. The posted speed limit is 25 MPH. This speed camera was installed in August 2012.

W4 - 1





District Department of Transportation

1700 Block North Portal Drive NW

Field Assessment Summary

North Portal Drive NW is assumed to run in the North-South direction, and is classified as a collector. North Portal Drive Northwest is a bi-directional roadway with no centerline marking. It intersects Birch Drive NW and East Beach Drive NW. This site has the following characteristics:

- This site is located in a residential and wooded area with houses, driveways, and on-street parking on both sides of the street.
- The existing pavement is in good condition.
- There are stop signs and ramps at the intersections with Birch Drive and East Beach Drive.
- There are sidewalks with curb and gutter on the southwest side of the street.



Looking Northbound



District Department of Transportation

1700 Block North Portal Drive NW



Looking Southbound

Speed Data Analysis

Posted Speed Limit (MPH)	25
Mean Speed (MPH)	8
85th Percentile Speed (MPH)	12
10 MPH Pace Speed	4-13 MPH
ADT	917

Both the mean speed and the 85th percentile speed are lower than the posted speed limit at this location. The 85th percentile speed is 4 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 was only one crash at this location.



Severity			Weather			Surface condition			Light Condition		
Total	1										
Fatal	0	0.0%	Clear	1	100.0%	Dry	1	100.0%	Day	1	100.0%
Injury	0	0.0%	Rain	0	0.0%	Wet	0	0.0%	Night	0	0.0%
Bicycle	0	0.0%	Snow	0	0.0%	Snow/Ice	0	0.0%			
Pedestrian	0	0.0%									

This speed camera was installed on 8/1/2012. There was one crash of severity property damage only in the year before the installation of the speed camera, and no crashes the year after the installation of the speed 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 – There was only one crash of severity property damage only in the year before the installation of the speed camera, and no crashes the year after the installation of the speed camera.
3. Field Assessment – The following site characteristics suggest a need for a safer travel environment:
 - a. This site is located in a residential and wooded area with houses and driveways on both sides of the street.
 - b. There are multiple bus stops in the area which generate pedestrian activity.
 - c. There is on-street parking at this location.

Although the speed data analysis showed the mean and 85th percentile speeds to be lower than the posted speed limit, the crash data did show a reduction in the number of crashes since the installation of the speed camera. Due to the crash data reduction along with the specific site characteristics of a residential neighborhood, 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

1700 block N Portal Dr NW SWB Speed

SWB

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
11/12/13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
02:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
03:00	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
06:00	22	0	2	0	0	0	0	0	0	0	0	0	0	0	24
07:00	78	0	2	1	0	0	0	0	0	0	0	0	0	0	81
08:00	138	1	0	0	0	0	0	0	0	0	0	0	0	0	139
09:00	72	0	3	0	0	0	0	0	0	0	0	0	0	0	75
10:00	56	1	0	0	0	0	0	0	0	0	0	0	0	0	57
11:00	53	1	0	0	0	0	0	0	0	0	0	0	0	0	54
12 PM	65	0	4	0	0	0	0	0	0	0	0	0	0	0	69
13:00	60	1	2	0	0	0	0	0	0	0	0	0	0	0	63
14:00	53	0	0	0	0	0	0	0	0	0	0	0	0	0	53
15:00	53	2	1	0	0	0	0	0	0	0	0	0	0	0	56
16:00	55	1	0	1	0	0	0	0	0	0	0	0	0	0	57
17:00	48	3	4	1	0	0	0	0	0	0	0	0	0	0	56
18:00	37	0	2	0	0	0	0	0	0	0	0	0	0	0	39
19:00	24	5	5	0	0	0	0	0	0	0	0	0	0	0	34
20:00	13	2	5	0	0	0	0	0	0	0	0	0	0	0	20
21:00	13	0	0	0	0	0	0	0	0	0	0	0	0	0	13
22:00	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
23:00	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	864	17	30	3	0	0	0	0	0	0	0	0	0	0	914

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

1700 block N Portal Dr NW SWB Speed

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
11/13/13	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
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	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Grand Total	866	17	30	3	0	0	0	0	0	0	0	0	0	0	916

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

Stats
 Mean Speed(Average) : 9 MPH
 10 MPH Pace Speed : 4-13 MPH
 Number in Pace : 714
 Percent in Pace : 77.9%
 Number of Vehicles > 25 MPH : 4
 Percent of Vehicles > 25 MPH : 0.4%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

1700 block N Portal Dr NW SWB Volume

Start Time	12-Nov-13		13-Nov-13		14-Nov-13		Daily Average	
	Tue A.M.	P.M.	Wed A.M.	P.M.	Thu A.M.	P.M.	A.M.	P.M.
12:00	*	13	2	*	*	*	2	13
12:15	*	15	0	*	*	*	0	15
12:30	0	22	*	*	*	*	0	22
12:45	0	19	*	*	*	*	0	19
01:00	1	15	*	*	*	*	1	15
01:15	0	13	*	*	*	*	0	13
01:30	0	15	*	*	*	*	0	15
01:45	1	20	*	*	*	*	1	20
02:00	0	9	*	*	*	*	0	9
02:15	0	12	*	*	*	*	0	12
02:30	0	19	*	*	*	*	0	19
02:45	1	13	*	*	*	*	1	13
03:00	0	17	*	*	*	*	0	17
03:15	2	16	*	*	*	*	2	16
03:30	0	13	*	*	*	*	0	13
03:45	1	10	*	*	*	*	1	10
04:00	0	17	*	*	*	*	0	17
04:15	0	16	*	*	*	*	0	16
04:30	0	8	*	*	*	*	0	8
04:45	0	16	*	*	*	*	0	16
05:00	2	14	*	*	*	*	2	14
05:15	4	11	*	*	*	*	4	11
05:30	2	19	*	*	*	*	2	19
05:45	2	12	*	*	*	*	2	12
06:00	1	6	*	*	*	*	1	6
06:15	6	9	*	*	*	*	6	9
06:30	11	15	*	*	*	*	11	15
06:45	6	9	*	*	*	*	6	9
07:00	6	15	*	*	*	*	6	15
07:15	18	7	*	*	*	*	18	7
07:30	28	7	*	*	*	*	28	7
07:45	30	5	*	*	*	*	30	5
08:00	48	9	*	*	*	*	48	9
08:15	32	3	*	*	*	*	32	3
08:30	27	4	*	*	*	*	27	4
08:45	32	4	*	*	*	*	32	4
09:00	16	6	*	*	*	*	16	6
09:15	24	3	*	*	*	*	24	3
09:30	8	0	*	*	*	*	8	0
09:45	27	4	*	*	*	*	27	4
10:00	20	4	*	*	*	*	20	4
10:15	17	0	*	*	*	*	17	0
10:30	10	0	*	*	*	*	10	0
10:45	10	2	*	*	*	*	10	2
11:00	13	0	*	*	*	*	13	0
11:15	19	1	*	*	*	*	19	1
11:30	14	1	*	*	*	*	14	1
11:45	8	0	*	*	*	*	8	0
Total	447	468	2	0	0	0	449	468
Combined Total	915		2		0		917	
Peak	08:00	00:15					08:00	00:15
Vol.	139	71					139	71
P.H.F.	0.724	0.807					0.724	0.807
ADT	ADT 917		AADT 917					

Accident Summary Report (R-8)

Corridor: NORTH PORTAL DR,NW From BIRCH DR,NW TO SPRUCE DR,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:	1	Right Angle:	0	0.0%	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:	1	100.0%	Backing:	0	0.0%
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 o fweek	#ACC	%
07:30 ~ 09:30:	0	0.0%	Sunday:	0	0.0%
09:30 ~ 11:30:	1	100.0%	Monday:	0	0.0%
11:30 ~ 13:30:	0	0.0%	Tuesday:	1	100.0%
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:	0	0.0%	Friday:	0	0.0%
Unspecified:	0	0.0%	Saturday:	0	0.0%

Weather Condition	#ACC	%	Surface Condition	#ACC	%
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	#ACC	%
Passenger Car:	2	100.0%	Fatal Collision:	0	0.0%
Bus:	0	0.0%	Injury Collision:	0	0.0%
Truck:	0	0.0%	PDO Collision:	1	100.0%
Taxi:	0	0.0%			
Minivan:	0	0.0%	Light Condition	#ACC	%
Police/Emergency Vehicle:	0	0.0%	Daylight:	1	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:	1	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:	1	50.0%	Unspecified:	0	0.0%

1 Records are not approved as of 9/17/2013 9:33:39 AM

Accident Summary Report (R-8)

Corridor: NORTH PORTAL DR,NW From BIRCH DR,NW TO SPRUCE DR,NW

Time Period Covered: From 07/31/2010 To 07/31/2011

Prepared By: Rahul Jain

Prepared Date: 11/18/2011

		Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Accident:	1	Right Angle:	0	0.0%	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:	1	100.0%	Backing:	0	0.0%
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:	0	0.0%	Sunday:	0	0.0%
09:30 ~ 11:30:	1	100.0%	Monday:	0	0.0%
11:30 ~ 13:30:	0	0.0%	Tuesday:	1	100.0%
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:	0	0.0%	Friday:	0	0.0%
Unspecified:	0	0.0%	Saturday:	0	0.0%

Weather Condition	#ACC	%	Surface Condition	#ACC	%
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	#ACC	%
Passenger Car:	2	100.0%	Fatal Collision:	0	0.0%
Bus:	0	0.0%	Injury Collision:	0	0.0%
Truck:	0	0.0%	PDO Collision:	1	100.0%
Taxi:	0	0.0%			
Minivan:	0	0.0%	Light Condition	#ACC	%
Police/Emergency Vehicle:	0	0.0%	Daylight:	1	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:	1	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:	1	50.0%	Unspecified:	0	0.0%

1 Records are not approved as of 11/18/2013 11:01:20 AM