



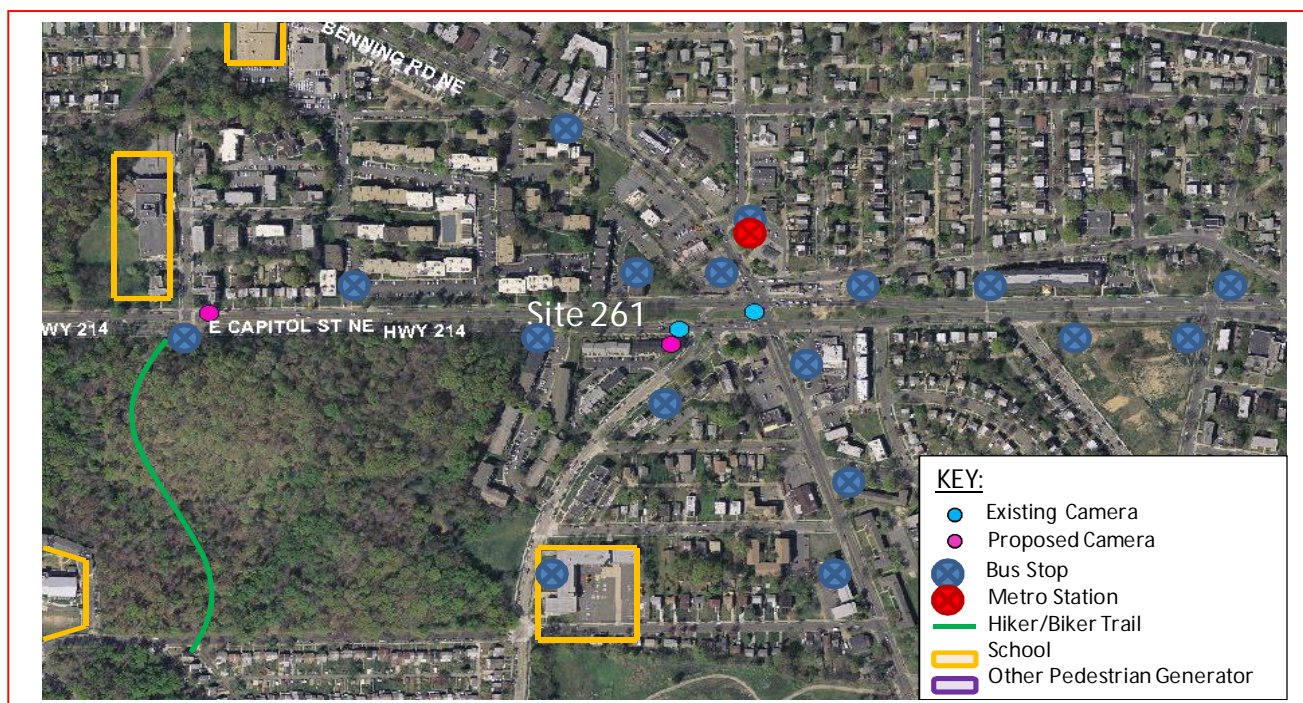
District Department of Transportation

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

4800 Block Texas Avenue SE

### Study Area and Location

District	PSA	Ward	ANC	Phase	Description
6	603	7	7A	Proposed	4800 Block Texas Avenue Southeast, Northbound



The *proposed* speed camera will be located in Ward 7 at the 4800 block of Texas Avenue Southeast in the northbound direction. Texas Avenue Southeast runs between East Capitol Street Southeast to the north and Ridge Road Southeast to the south. The posted speed limit is 25 MPH.

W7 - 408





District Department of Transportation

4800 Block Texas Avenue SE

## Field Assessment Summary

Texas Avenue Southeast is assumed to run in a north-south direction, and is classified as a collector. Texas Avenue Southeast has one travel lane in each direction. This site has the following characteristics:

- This is a residential area with apartments.
- There are three schools in the area: the Seed School, Plummer Elementary School and DC Prep.
- There is a Boys and Girls Club of America to the northwest of the site.
- There are several bus stops and a Metro station close to the site which generate pedestrian activity.
- Fort Chaplin Park is close by and has a bike trail that generated pedestrian and bicycle activity.
- There are sidewalks and on-street parking on both sides of the street. The pavement is in fair condition and there is curb and gutter with drainage inlets. There is a slight slope downgrade northbound.



Looking Northbound

W7 - 409



District Department of Transportation

4800 Block Texas Avenue SE



Looking Northbound

## Speed Data Analysis

	Northbound
Posted Speed Limit (MPH)	25
Mean Speed (MPH)	12
85th Percentile Speed (MPH)	17
10 MPH Pace Speed	7-16
ADT	3,243

The mean speed is lower than the posted speed limit, and the 85<sup>th</sup> percentile speed is lower than the posted speed limit 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 12 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 Rear End (4 crashes), and Right Angle, Left Turn, and Head On with 2 crashes each. The other collision types had 1 crash or less each. Furthermore, the site experienced 6 injury-related crashes.

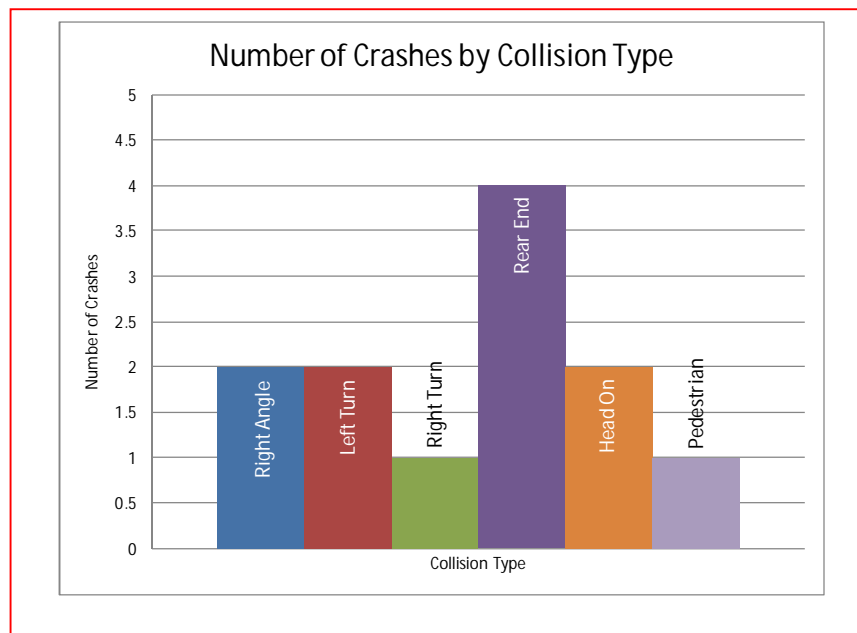
W7 - 410



District Department of Transportation

4800 Block Texas Avenue SE

Severity			Weather			Surface condition			Light Condition		
Total	12										
Fatal	0	0.0%	Clear	8	66.7%	Dry	9	75.0%	Day	7	58.3%
Injury	6	50.0%	Rain	2	16.7%	Wet	2	16.7%	Night	4	33.3%
Truck	1	8.3%	Snow	1	8.3%	Snow/Ice	1	8.3%			
Bicycle	1	8.3%									



## 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 speed data analysis shows travel speeds being lower than the posted speed limit.
2. Crash Data – This location experienced six 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 apartments.
  - b. There are three schools in the area: the Seed School, Plummer Elementary School and DC Prep.
  - c. There is a Boys and Girls Club of America to the northwest of the site.
  - d. There are several bus stops and on Metrorail station close to the site which generate pedestrian activity.
  - e. There is on-street parking on both sides of the street.

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District Department of Transportation

4800 Block Texas Avenue SE

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, the proximity of schools to the site, and other pedestrian generators, there is a nexus between traffic safety and the speed camera at this location.

W7 - 412

# SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD  
MOUNT AIRY, MD 21771

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

## 4800 block of Texas Ave SE NB Speed

NB

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
11/25/13	3	18	3	0	0	0	0	0	0	0	0	0	0	0	24
01:00	0	11	4	0	0	0	0	0	0	0	0	0	0	0	15
02:00	3	6	1	0	0	0	0	0	0	0	0	0	0	0	10
03:00	1	8	0	0	0	0	0	0	0	0	0	0	0	0	9
04:00	4	13	0	0	0	0	0	0	0	0	0	0	0	0	17
05:00	1	40	2	0	0	0	0	0	0	0	0	0	0	0	43
06:00	19	83	8	0	0	0	0	0	0	0	0	0	0	0	110
07:00	221	82	5	0	0	0	0	0	0	0	0	0	0	0	308
08:00	128	144	8	0	0	0	0	0	0	0	0	0	0	0	280
09:00	44	118	4	0	0	0	0	0	0	0	0	0	0	0	166
10:00	42	86	3	0	0	0	0	0	0	0	0	0	0	0	131
11:00	37	78	3	0	0	0	0	0	0	0	0	0	0	0	118
12 PM	126	33	1	0	0	0	0	0	0	0	0	0	0	0	160
13:00	67	101	5	0	0	0	0	0	0	0	0	0	0	0	173
14:00	60	95	10	0	0	0	0	0	0	0	0	0	0	0	165
15:00	135	128	4	0	0	0	0	0	0	0	0	0	0	0	267
16:00	180	84	2	0	0	0	0	0	0	0	0	0	0	0	266
17:00	243	0	0	0	0	0	0	0	0	0	0	0	0	0	243
18:00	200	0	0	0	0	0	0	0	0	0	0	0	0	0	200
19:00	167	10	0	0	0	0	0	0	0	0	0	0	0	0	177
20:00	51	89	6	1	0	0	0	0	0	0	0	0	0	0	147
21:00	20	61	3	0	0	0	0	0	0	0	0	0	0	0	84
22:00	15	41	3	0	0	0	0	0	0	0	0	0	0	0	59
23:00	15	55	1	0	0	0	0	0	0	0	0	0	0	0	71
Total	1782	1384	76	1	0	0	0	0	0	0	0	0	0	0	3243
Grand Total	1782	1384	76	1	0	0	0	0	0	0	0	0	0	0	3243

15th Percentile : 5 MPH  
 50th Percentile : 11 MPH  
 85th Percentile : 17 MPH  
 95th Percentile : 19 MPH

Stats  
 Mean Speed(Average) : 12 MPH  
 10 MPH Pace Speed : 7-16 MPH  
 Number in Pace : 1956  
 Percent in Pace : 60.3%  
 Number of Vehicles > 25 MPH : 6  
 Percent of Vehicles > 25 MPH : 0.2%

# SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD  
MOUNT AIRY, MD 21771

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

## 4800 block of Texas Ave SE NB Volume

Start Time	Mon 25-Nov-13		Tue 26-Nov-13		Wed 27-Nov-13		Daily Average	
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	9	36	*	*	*	*	9	36
12:15	6	40	*	*	*	*	6	40
12:30	4	38	*	*	*	*	4	38
12:45	5	46	*	*	*	*	5	46
01:00	1	42	*	*	*	*	1	42
01:15	4	38	*	*	*	*	4	38
01:30	7	40	*	*	*	*	7	40
01:45	3	53	*	*	*	*	3	53
02:00	1	26	*	*	*	*	1	26
02:15	3	41	*	*	*	*	3	41
02:30	3	49	*	*	*	*	3	49
02:45	3	49	*	*	*	*	3	49
03:00	4	47	*	*	*	*	4	47
03:15	2	<b>70</b>	*	*	*	*	2	<b>70</b>
03:30	3	<b>72</b>	*	*	*	*	3	<b>72</b>
03:45	0	<b>78</b>	*	*	*	*	0	<b>78</b>
04:00	2	<b>83</b>	*	*	*	*	2	<b>83</b>
04:15	5	56	*	*	*	*	5	56
04:30	4	64	*	*	*	*	4	64
04:45	6	63	*	*	*	*	6	63
05:00	5	62	*	*	*	*	5	62
05:15	13	64	*	*	*	*	13	64
05:30	11	60	*	*	*	*	11	60
05:45	14	57	*	*	*	*	14	57
06:00	21	44	*	*	*	*	21	44
06:15	20	52	*	*	*	*	20	52
06:30	25	51	*	*	*	*	25	51
06:45	44	53	*	*	*	*	44	53
07:00	52	47	*	*	*	*	52	47
07:15	<b>81</b>	45	*	*	*	*	<b>81</b>	45
07:30	<b>94</b>	45	*	*	*	*	<b>94</b>	45
07:45	<b>81</b>	40	*	*	*	*	<b>81</b>	40
08:00	<b>89</b>	46	*	*	*	*	<b>89</b>	46
08:15	66	40	*	*	*	*	66	40
08:30	59	30	*	*	*	*	59	30
08:45	66	31	*	*	*	*	66	31
09:00	47	30	*	*	*	*	47	30
09:15	36	23	*	*	*	*	36	23
09:30	47	22	*	*	*	*	47	22
09:45	36	9	*	*	*	*	36	9
10:00	32	17	*	*	*	*	32	17
10:15	32	17	*	*	*	*	32	17
10:30	24	11	*	*	*	*	24	11
10:45	43	14	*	*	*	*	43	14
11:00	30	19	*	*	*	*	30	19
11:15	33	19	*	*	*	*	33	19
11:30	27	20	*	*	*	*	27	20
11:45	28	13	*	*	*	*	28	13
Total	1231	2012	0	0	0	0	1231	2012
Combined Total	3243		0		0		3243	
Peak	07:15	03:15					07:15	03:15
Vol.	345	303					345	303
P.H.F.	0.918	0.913					0.918	0.913
ADT	ADT 3,243		AADT 3,243					

## Accident Summary Report (R-8)

**Corridor:** TEXAS AVE,SE From EAST CAPITOL ST,BN TO A ST,SE

**Time Period Covered:** From 01/01/2010 To 12/31/2012

**Prepared By:** Rahul Jain

**Prepared Date:** 9/15/2013

		<b>Collision Type</b>	<b>#ACC</b>	<b>%</b>	<b>Collision Type</b>	<b>#ACC</b>	<b>%</b>
Total Number of Accident:	12	Right Angle:	2	16.7%	Fixed Object:	0	0.0%
Total Number of Fatalities:	0	Left Turn:	2	16.7%	Ran Off Road:	0	0.0%
Total Number of Injuries:	14	Right Turn:	1	8.3%	Ped. Involved:	1	8.3%
Total Number of Disabling Injuries:	0	Rear End:	4	33.3%	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:	1	Head On:	2	16.7%	Under/Over Ride:	0	0.0%
Total Number of Bicycles Involved:	1	Parked:	0	0.0%	Unspecified:	0	0.0%
Total Number of Motorcycles Involved:	0						

<b>Time of Day</b>	<b>#ACC</b>	<b>%</b>
07:30 ~ 09:30:	0	0.0%
09:30 ~ 11:30:	1	8.3%
11:30 ~ 13:30:	1	8.3%
13:30 ~ 16:00:	0	0.0%
16:00 ~18:30:	6	50.0%
18:30 ~ 07:30:	4	33.3%
Unspecified:	0	0.0%

<b>Day o fweek</b>	<b>#ACC</b>	<b>%</b>
Sunday:	4	33.3%
Monday:	1	8.3%
Tuesday:	1	8.3%
Wednesday:	2	16.7%
Thursday:	0	0.0%
Friday:	2	16.7%
Saturday:	2	16.7%

<b>Weather Condition</b>	<b>#ACC</b>	<b>%</b>
Clear:	8	66.7%
Rain:	2	16.7%
Snow:	1	8.3%
Sleet/Hail:	0	0.0%
Fog/Mist:	0	0.0%
Crosswind/Blowing Sand:	0	0.0%
Unspecified:	1	8.3%

<b>Surface Condition</b>	<b>#ACC</b>	<b>%</b>
Dry:	9	75.0%
Wet:	2	16.7%
Snow/Ice:	1	8.3%
Slush:	0	0.0%
Water/Sand:	0	0.0%
Repairing:	0	0.0%
Unspecified:	0	0.0%

<b>Type of Vehicle</b>	<b>#VEH</b>	<b>%</b>
Passenger Car:	18	72.0%
Bus:	0	0.0%
Truck:	1	4.0%
Taxi:	0	0.0%
Minivan:	0	0.0%
Police/Emergency Vehicle:	0	0.0%
Motorcycle/Moped:	0	0.0%
Bicycle:	1	4.0%
Fixed Object:	0	0.0%
Unspecified:	5	20.0%

<b>Accident Severity Type</b>	<b>#ACC</b>	<b>%</b>
Fatal Collision:	0	0.0%
Injury Collision:	6	50.0%
PDO Collision:	6	50.0%

<b>Light Condition</b>	<b>#ACC</b>	<b>%</b>
Daylight:	7	58.3%
Dawn/Dusk:	1	8.3%
Dark(Lighted):	4	33.3%
Dark(Not Lighted):	0	0.0%
Dark(Unknown Lighting):	0	0.0%
Unspecified:	0	0.0%

<b>Contributing Factor</b>	<b>#VEH</b>	<b>%</b>
Driver: Speed:	0	0.0%
Driver: Alcohol/Drug:	1	4.0%
Driver: Electronic Device:	0	0.0%
Driver: Others:	5	20.0%
Vehicle:	0	0.0%
Roadway:	0	0.0%
Unspecified:	19	76.0%

<b>Pedestrian Actions</b>	<b>#ACC</b>	<b>%</b>
In Crosswalk with Signal:	1	100.0%
In Crosswalk against Signal:	0	0.0%
In Crosswalk no Signal:	0	0.0%
In Unmarked Crosswalk:	0	0.0%
Not in Crosswalk:	0	0.0%
From Between Parked Cars:	0	0.0%
Unspecified:	0	0.0%

9 Records are not approved as of 9/15/2013 2:47:27 PM