

Study Area and Location



Speed Limit and Safety Nexus Studies for Automated Enforcement Locations in the District of Columbia 1500 Block T Street NW

Study	Alea a	and Luc	alion		
District	PSA	Ward	ANC	Phase	Description
2	301	2	2B	Proposed	1500 Block T Street Northwest Eastbound
District 2	PSA 301	Ward 2	ANC		
	Propose Bus Stop Metro S Hiker/B School	ed Camera o	erator		

This *proposed* speed camera will be located in Ward 2 at the 1500 block of T Street Northwest in the eastbound direction. T Street Northwest runs between Florida Avenue Northwest to the west and North Capitol Street Northwest to the east. The posted speed limit is 25 MPH.

W2 - 148







Field Assessment Summary

T Street is assumed to run in the east-west direction, and is classified as a local road. T Street has one travel lane in the eastbound direction only. This site has the following characteristics:

- This site is located in a residential area with houses, driveways, and on-street parking on both sides of • the street.
- Sidewalks with curb, gutter, and drainage inlets are on both sides of the street on the south side of the • street.
- The existing pavement is in good condition.
- There are multiple bus stops and one Metrorail station in the area.
- There is an eastbound bicycle lane on the south side of the street.
- There are traffic signals and crosswalks with pedestrian signals at 15th Street NW and 16th Street NW. •



Looking Eastbound







Speed Data Analysis

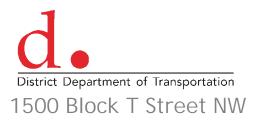
Posted Speed Limit (MPH)	25
Mean Speed (MPH)	22
85th Percentile Speed (MPH)	30
10 MPH Pace Speed	21-30
ADT	2,727

The mean speed is 3 MPH lower than the posted speed limit, and the 85th percentile speed is 5 MPH higher than the posted speed limit.

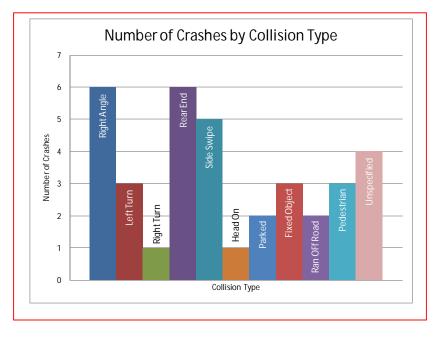
Crash Data Analysis

From the Accident Summary Report provided for the dates between January 1, 2010 and December 31, 2012, there were a total of 36 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 (6 crashes), Right Angle (6 crashes), and Side Swiped (5 crashes). Furthermore, this site experienced a high frequency (11 crashes) of injury-related crashes.





Severity			Weather			Surface	conditi	ion	Light Condition		
Total	36										
Fatal	0	0.0%	Clear	30	83.3%	Dry	30	83.3%	Day	19	52.8%
Injury	11	30.6%	Rain	2	5.6%	Wet	2	5.6%	Night	13	36.1%
Taxi	6	16.7%	Snow	2	5.6%	Snow/Ice	2	5.6%			
Truck	5	13.9%									



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 85th percentile speed is higher than the posted speed limit at this location.
- 2. Crash Data This location experienced a high frequency (11 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 driveways along the south side of the street.
 - b. There are multiple bus stops and one Metrorail station in the area which generate pedestrian activity.
 - c. There is on-street parking in this area.
 - d. There is an eastbound bicycle lane on the south side of the street.





Due to the speed data analysis, 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.

W2 - 152

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD MOUNT AIRY, MD 21771

www.sammateng.com

1500 block of T St NW EB Speed

EB															
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
11/05/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	11	0	0	3	5	2	0	0	1	0	0	0	0	0	22
03:00	1	0	1	1	1	0	0	0	0	0	0	0	0	0	4
04:00	2	1	5	0	1	1	2	0	0	0	0	0	0	0	12
05:00	1	4	5	3	2	3	1	1	1	0	0	0	0	0	21
06:00	1	3	9	11	11	6	1	0	0	0	0	0	0	0	42
07:00	14	20	31	33	7	3	1	0	0	0	0	0	0	0	109
08:00	19	26	42	24	13	6	0	1	0	0	0	0	0	0	131
09:00	14	30	34	29	18	5	2	0	1	0	0	0	0	0	133
10:00	21	15	27	42	13	4	0	0	0	0	0	0	0	0	122
11:00	23	25	42	39	18	2	0	0	1	0	0	0	0	0	150
12 PM	25	33	37	28	11	2	2	0	1	0	0	0	0	0	139
13:00	37	38	33	29	6	6	1	0	0	0	0	0	0	0	150
14:00	31	33	48	44	17	2	1	0	0	0	0	0	0	0	176
15:00	20	20	63	80	39	8	2	0	0	0	0	0	0	0	232
16:00	20	25	50	64	26	9	2	1	0	0	0	0	0	0	197
17:00	44	44	71	47	26	2	0	0	0	0	0	0	0	0	234
18:00	25	41	55	51	33	9	0	0	0	0	0	0	0	0	214
19:00	7	24	57	53	18	9	3	0	0	0	0	0	0	0	171
20:00	5	13	31	49	37	8	1	1	0	0	0	0	0	0	145
21:00	10	19	32	35	24	10	1	0	0	0	0	0	0	0	131
22:00	3	5	12	32	19	11	3	2	1	0	0	0	0	0	88
23:00	0	2	7	22	15	6	2	0	0	0	0	0	0	0	54
Total	334	421	692	719	360	114	25	6	6	0	0	0	0	0	2677

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD MOUNT AIRY, MD 21771

www.sammateng.com

1500 block of T St NW EB Speed

EB															
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
11/06/13	5	0	0	16	7	2	1	0	0	0	0	0	1	0	32
01:00	0	0	2	4	5	4	3	0	0	0	0	0	0	0	18
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	5	0	2	20	12	6	4	0	0	0	0	0	1	0	50
Grand Total	339	421	694	739	372	120	29	6	6	0	0	0	1	0	2727
Stats		15th Percentile : 50th Percentile : 85th Percentile : 95th Percentile : 10 MPH Pace Speed : Number in Pace : Percent in Pace : Number of Vehicles > 25 MPH : Percent of Vehicles > 25 MPH :			10 MPH 22 MPH 30 MPH 35 MPH 22 MPH 30 MPH 1153 42.3% 1077 39.5%										

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD MOUNT AIRY, MD 21771

www.sammateng.com

1500 block of T St NW EB Volume

Start	Tue	05-Nov-13	Wed	06-Nov-13	Thu	07-Nov-13	Daily Ave	erage
Time	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	Р.М.
12:00	*	37	9	*	*	*	9	37
12:15	*	32	8	*	*	*	8	32
12:30	*	33	8	*	*	*	8	33
12:45	*	37	7	*	*	*	7	37
01:00	*	39	3	*	*	*	3	39
01:15	*	34	4	*	*	*	4	34
01:30	*	43	7	*	*	*	7	43
01:45	*	34	4	*	*	*	4	34
02:00	13	45	*	*	*	*	13	45
02:15	0	45	*	*	*	*	0	45
02:30	2	39	*	*	*	*	2	39
02:45	7	47	*	*	*	*	2 7	47
03:00	1	56	*	*	*	*	1	56
03:15	2	54	*	*	*	*	2	54
03:30	0	62	*	*	*	*	0	54 62
03:45	1	60	*	*	*	*	1	60
03.45		00	*	*	*	*		60
04:00	3	46	•	*	*	*	3	46
04:15	3	47	*	*	*	*	3	47
04:30	1	53	^ +	*	*	*	1	53
04:45	5	51	*	*	*	*	5	51
05:00	4	55	*	*	*	*	4	55
05:15	3	49	*		*		3	49
05:30	6	60	*	*	*	*	6 8 7 7	60
05:45	8	70	*	*			8	70
06:00	7	60	*	*	*	*	7	60
06:15	7	70	*	*	*	*	7	70
06:30	12	44	*	*	*	*	12	44
06:45	16	40	*	*	*	*	16	40
07:00	21	63	*	*	*	*	21	63
07:15	25	42	*	*	*	*	25	42
07:30	33	26	*	*	*	*	33	26
07:45	30	40	*	*	*	*	30	40
08:00	22	47	*	*	*	*	22	47
08:15	36	35	*	*	*	*	36	35
08:30	37	31	*	*	*	*	37	31
08:45	36	32	*	*	*	*	36	32
09:00	26	42	*	*	*	*	26	42
09:15	32	34	*	*	*	*	32	34
09:30	39	27	*	*	*	*	39	27
09:45	36	28	*	*	*	*	36	28
10:00	35	21	*	*	*	*	35	21
10:15	33	24	*	*	*	*	33	24
10:30	34	21	*	*	*	*	34	21
10:45	20	22	*	*	*	*	20	22
11:00	33	14	*	*	*	*	33	14
11:15	54	17	*	*	*	*	54	17
11:30	33	15	*	*	*	*	33	17
11:45	30	8	*	*	*	*	30	8
Total	746	1931	50	0	0	0	796	1931
								1931
Combined Total	26	677	5	0	0)	2727	
Peak	11:00	05:30	12:00				11:00	05:30
Vol.	150	260	32				150	260
P.H.F.	0.694	0.929	0.889				0.694	0.929
ADT		ADT 2,727	AADT 2,72	7				

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

	,NE From SIX1 From 01/01/20		NW TO FOURTE		T,NW Rahul Jain	Prepared Da	to:	10/6/2013
				-		•		
Total Number of Accident: Total Number of Fatalities		36 0	Collision Type Right Angle:	e #ACC 6		Collision Type	#ACC 3	C % 8.3%
Total Number of Injuries:	•	13	Left Turn:	3		Ran Off Road:	0	0.0%
Total Number of Disabling	Injurioo:	0	Right Turn:			Ped. Involved:	2	5.6%
0			Right Turn. Rear End:	1 6			2	5.6% 8.3%
Total Number of NonDisat	0,	6				Backing:	о 0	0.3% 0.0%
Total Number of Pedestria		1	Side Swiped:	5 ₁		Non Collision: Jnder/Over Ride:		0.0%
Total Number of Bicycles Total Number of Motorcyc		3 0	Head On: Parked:	1 2		Jnspecified:	4	11.1%
Time of Day	#ACC	%			Day o fweek	#AC	c	%
07:30 ~ 09:30:	4	11.1%			Sunday:	8	-	22.2%
09:30 ~ 11:30:	4	11.1%			Monday:	1		2.8%
11:30 ~ 13:30:	3	8.3%			Tuesday:	3		8.3%
13:30 ~ 16:00:	6	16.7%			Wednesday:	2		5.6%
16:00 ~18:30:	2	5.6%			Thursday:	9		25.0%
18:30 ~ 07:30:	17	47.2%			Friday:	3 7		19.4%
Unspecified:	0	0.0%			Saturday:	6		16.7%
Weather Condition	#ACC	%			Surface Condition	#AC	C	%
Clear:	30	83.3%			Dry:	30		83.3%
Rain:	2	5.6%			Wet:	2		5.6%
Snow:	2	5.6%			Snow/Ice:	2		5.6%
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	5.6%			Unspecified:	2		5.6%
Type of Vehicle	#VEH	%			Accident Severity	Type #AC	C	%
Passenger Car:	46	69.7%			Fatal Collision:	0		0.0%
Bus:	0	0.0%			Injury Collision:	11		30.6%
Truck:	5	7.6%			PDO Collision:	25		69.4%
Taxi:	6	9.1%						
Minivan:	0	0.0%			Light Condition	#AC	C	%
Police/Emergency Vehicle	: 0	0.0%			Daylight:	19		52.8%
Motorcycle/Moped:	1	1.5%			Dawn/Dusk:	2		5.6%
Bicycle:	3	4.5%			Dark(Lighted):	13		36.1%
Fixed Object:	0	0.0%			Dark(Not Lighted):	0		0.0%
Unspecified:	5	7.6%			Dark(Unknown Ligh	ting): 0		0.0%
·					Unspecified:	2		5.6%
Contributing Factor	#VEH	%			Pedestrian Actions		C	%
Driver: Speed:	1	1.5%			In Crosswalk with S	-		0.0%
Driver: Alcohol/Drug:	0	0.0%			In Crosswalk agains	-		0.0%
Driver: Electronic Device:	0	0.0%			In Crosswalk no Sig			0.0%
Driver: Others:	15	22.7%			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:	50	75.8%			Unspecified:	1		100.0%

20 Records are not approved as of 10/6/2013 12:14:09 PM