



District Department of Transportation

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

DC 295 0.4 Miles South of Pennsylvania Avenue SE

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
7	605	7	7A	Proposed	DC 295 0.4 Miles South of Pennsylvania Avenue Southeast, Southwest-bound



This *proposed* speed camera is located in Ward 7 on DC 295 Southeast 0.4 miles south of Pennsylvania Avenue Southeast in the southwest-bound direction. DC 295 runs between the Baltimore-Washington Parkway to the north and I-295 to the south. The posted speed limit is 50 MPH.

W7 - 472





District Department of Transportation

DC 295 0.4 Miles South of Pennsylvania Avenue SE

Field Assessment Summary

DC 295 is assumed to run in the northeast-southwest direction, and is classified as a freeway. DC 295 has three travel lanes southwest-bound and four travel lanes northeast-bound. This site has the following characteristics:

- The Anacostia Park is located to the north of the site and has bike trails that generate pedestrian activity off of the freeway.
- There is a median with concrete barriers dividing the northeast-bound and southwest-bound traffic.
- The pavement is in good condition and the concrete barriers have inlets for drainage.
- There is a 1500-foot deceleration lane leading to the 11th Street Bridge on this segment.



Looking Northeast-bound

W7 - 473



District Department of Transportation

DC 295 0.4 Miles South of Pennsylvania Avenue SE



Looking Southwest-bound

Speed Data Analysis

	SW
Posted Speed Limit (MPH)	50
Mean Speed (MPH)	41
85th Percentile Speed (MPH)	61
10 MPH Pace Speed	52-61
ADT	28,675

The mean speed is lower than the posted speed limit, and the 85th percentile speed is higher than the posted speed limit at this location.

Crash Data Analysis

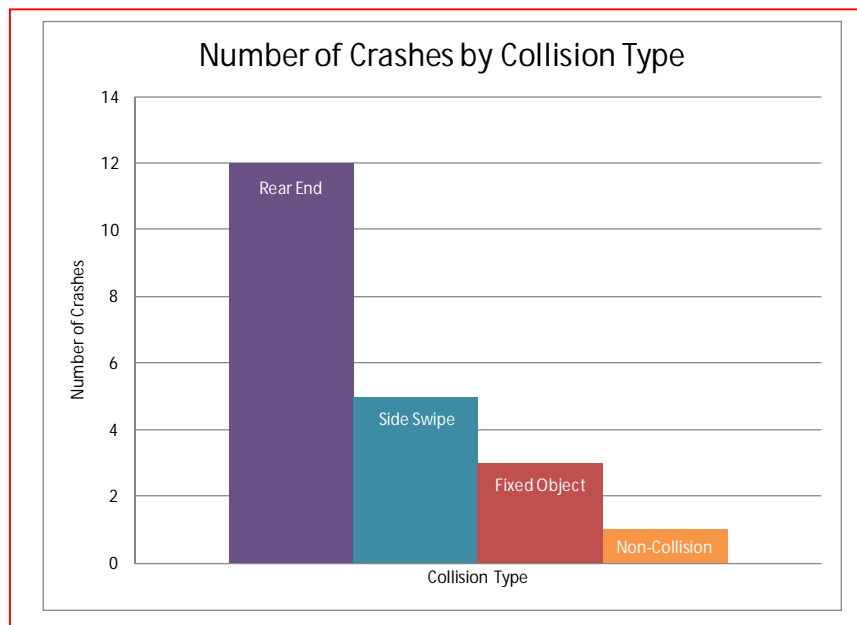
From the Accident Summary Report provided for the dates between January 1, 2010 and December 31, 2012 there were a total of 21 crashes at this location. A breakdown of number of crashes by collision type can be found in the chart on the next page. The most common types of crashes at this location were Rear End (12 crashes). Furthermore, this site experienced six injury-related crashes.

W7 - 474



DC 295 0.4 Miles South of Pennsylvania Avenue SE

Severity			Weather			Surface condition			Light Condition		
Total	21										
Fatal	0	0.0%	Clear	20	95.2%	Dry	18	85.7%	Day	14	66.7%
Injury	6	28.6%	Rain	1	4.8%	Wet	1	4.8%	Night	3	14.3%
Truck	3	14.3%	Snow	0	0.0%	Snow/Ice	0	0.0%			
Taxi	2	9.5%									



Safety Nexus

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

1. Speed Data – The 85th percentile speed is much higher than the posted speed limit at this location.
2. Crash Data – This site experienced six injury-related crashes.
3. Field Assessment – The following site characteristics suggest a need for a safer travel environment:
 - a. Anacostia Park is close to the site and has bike trails that generate pedestrian activity off of the freeway.
 - b. There is a 1500-foot deceleration lane leading to the 11th Street Bridge on this segment.



District Department of Transportation

DC 295 0.4 Miles South of Pennsylvania Avenue SE

Large volumes of traffic execute weaving and merging operations in this segment of freeway to access the 11th Street Bridge. However, this operation occurs on a short deceleration lane, 1500 feet, between the Pennsylvania Avenue Interchange and the 11th Street Bridge Interchange. It is desired to have slower speeds in this section of the freeway so vehicles can execute safer weaves and merges and thus minimize potential freeway vehicle-to-vehicle conflicts. For this reason, along with the elevated 85th percentile speeds and the number of injury-related crashes at this location, there is a nexus between traffic safety and the speed camera at this location.

W7 - 476

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

DC295 .4 MILE S/O PA Avenue SE SWB Speed

Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	999	Total
	15	20	25	30	35	40	45	50	55	60	65	70	75			
12/02/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	48	0	0	0	0	1	5	21	71	91	101	58	36	22	454	
04:00	128	0	0	0	0	0	4	34	123	277	315	203	110	59	1253	
05:00	336	0	0	1	0	6	43	191	564	638	427	173	58	21	2458	
06:00	352	0	2	0	1	10	105	448	700	469	151	26	8	1	2273	
07:00	302	53	51	47	53	55	80	91	113	49	9	2	0	0	905	
08:00	287	50	42	49	37	25	11	5	0	0	0	0	0	0	506	
09:00	341	26	23	51	62	58	91	145	259	268	175	63	20	4	1586	
10:00	245	1	2	1	0	4	31	171	340	431	218	92	16	9	1561	
11:00	261	0	2	0	0	2	16	107	223	267	180	62	15	4	1139	
12 PM	376	0	3	1	1	4	33	192	399	462	279	111	42	12	1915	
13:00	345	1	1	0	0	3	18	167	343	391	271	121	29	17	1707	
14:00	356	0	1	1	0	0	15	145	292	324	198	74	20	7	1433	
15:00	162	3	0	0	0	2	4	31	67	59	35	15	0	1	379	
16:00	96	7	1	0	0	0	0	0	0	0	0	0	0	0	104	
17:00	155	0	0	0	0	8	15	56	96	61	13	7	0	0	411	
18:00	331	0	0	1	0	4	60	266	482	418	132	33	9	5	1741	
19:00	405	1	0	0	0	1	26	152	337	455	191	58	30	11	1667	
20:00	333	0	0	0	0	1	21	123	347	398	258	91	14	11	1597	
21:00	301	0	0	0	0	0	18	107	271	408	292	109	34	26	1566	
22:00	284	0	0	0	1	4	21	85	245	337	235	122	40	19	1393	
23:00	202	0	0	0	1	1	17	76	209	247	194	85	34	25	1091	
Total	5646	142	128	152	156	189	634	2613	5481	6050	3674	1505	515	254	27139	

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

DC295 .4 MILE S/O PA Avenue SE SWB Speed

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
12/03/13	104	0	0	1	0	4	13	55	124	168	135	44	21	15	684
01:00	51	0	0	0	0	1	6	21	69	89	71	36	20	13	377
02:00	46	0	0	0	0	1	7	32	50	84	83	44	21	18	386
03:00	15	0	0	0	0	0	1	7	13	16	26	7	2	2	89
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	216	0	0	1	0	6	27	115	256	357	315	131	64	48	1536
Grand Total	5862	142	128	153	156	195	661	2728	5737	6407	3989	1636	579	302	28675

15th Percentile : 7 MPH
 50th Percentile : 51 MPH
 85th Percentile : 61 MPH
 95th Percentile : 66 MPH

Stats
 Mean Speed(Average) : 41 MPH
 10 MPH Pace Speed : 52-61 MPH
 Number in Pace : 9984
 Percent in Pace : 35.2%
 Number of Vehicles > 50 MPH : 18650
 Percent of Vehicles > 50 MPH : 65.7%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammatteng.com

DC295 .4 MILE S/O PA Avenue SE SWB Volume

Start Time	Mon	02-Dec-1	Tue	03-Dec-1	Wed	04-Dec-1	Daily Average		
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	
12:00	*	446	194	*	*	*	194	446	
12:15	*	454	190	*	*	*	190	454	
12:30	*	509	155	*	*	*	155	509	
12:45	*	506	145	*	*	*	145	506	
01:00	*	447	95	*	*	*	95	447	
01:15	*	432	102	*	*	*	102	432	
01:30	*	434	90	*	*	*	90	434	
01:45	*	394	90	*	*	*	90	394	
02:00	*	364	108	*	*	*	108	364	
02:15	*	366	110	*	*	*	110	366	
02:30	*	366	86	*	*	*	86	366	
02:45	*	337	82	*	*	*	82	337	
03:00	*	291	89	*	*	*	89	291	
03:15	117	29	*	*	*	*	117	29	
03:30	156	27	*	*	*	*	156	27	
03:45	181	32	*	*	*	*	181	32	
04:00	157	29	*	*	*	*	157	29	
04:15	250	20	*	*	*	*	250	20	
04:30	392	24	*	*	*	*	392	24	
04:45	454	31	*	*	*	*	454	31	
05:00	503	23	*	*	*	*	503	23	
05:15	653	46	*	*	*	*	653	46	
05:30	670	38	*	*	*	*	670	38	
05:45	632	304	*	*	*	*	632	304	
06:00	647	439	*	*	*	*	647	439	
06:15	577	437	*	*	*	*	577	437	
06:30	554	431	*	*	*	*	554	431	
06:45	495	434	*	*	*	*	495	434	
07:00	414	388	*	*	*	*	414	388	
07:15	119	424	*	*	*	*	119	424	
07:30	146	426	*	*	*	*	146	426	
07:45	226	429	*	*	*	*	226	429	
08:00	149	404	*	*	*	*	149	404	
08:15	120	402	*	*	*	*	120	402	
08:30	111	412	*	*	*	*	111	412	
08:45	126	379	*	*	*	*	126	379	
09:00	225	400	*	*	*	*	225	400	
09:15	349	367	*	*	*	*	349	367	
09:30	522	422	*	*	*	*	522	422	
09:45	490	377	*	*	*	*	490	377	
10:00	470	338	*	*	*	*	470	338	
10:15	451	361	*	*	*	*	451	361	
10:30	365	376	*	*	*	*	365	376	
10:45	275	318	*	*	*	*	275	318	
11:00	117	292	*	*	*	*	117	292	
11:15	112	286	*	*	*	*	112	286	
11:30	478	266	*	*	*	*	478	266	
11:45	432	247	*	*	*	*	432	247	
Total	12135	15004	1536	0	0	0	13671	15004	
Combined Total	27139		1536		0		28675		
Peak Vol.	05:15 2602	00:15 1916	-	12:00 684	-	-	-	05:15 2602	00:15 1916
P.H.F.	0.971	0.941	0.881				0.971	0.941	
ADT	ADT 28,675		AADT 28,675						

DC Department of Transportation - Traffic Accident Reporting and Analysis System

Accident Summary Report (R-8)

Corridor: INTERSTATE 295,BN From PENNSYLVANIA AVE,SE TO MARTIN LUTHER KING JR AVE,SE

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

Prepared By: Rahul Jain

Prepared Date: 1/9/2014

Total Number of Accident:	21	Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Fatalities:	0	Right Angle:	0	0.0%	Fixed Object:	3	14.3%
Total Number of Injuries:	7	Left Turn:	0	0.0%	Ran Off Road:	0	0.0%
Total Number of Disabling Injuries:	0	Right Turn:	0	0.0%	Ped. Involved:	0	0.0%
Total Number of NonDisabling Injuries:	1	Rear End:	12	57.1%	Backing:	0	0.0%
Total Number of Pedestrians Involved:	0	Side Swiped:	5	23.8%	Non Collision:	1	4.8%
Total Number of Bicycles Involved:	0	Head On:	0	0.0%	Under/Over Ride:	0	0.0%
Total Number of Motorcycles Involved:	0	Parked:	0	0.0%	Unspecified:	0	0.0%
Time of Day				Day o fweek			
	#ACC	%			#ACC	%	
07:30 ~ 09:30:	4	19.0%		Sunday:	0	0.0%	
09:30 ~ 11:30:	1	4.8%		Monday:	2	9.5%	
11:30 ~ 13:30:	2	9.5%		Tuesday:	8	38.1%	
13:30 ~ 16:00:	3	14.3%		Wednesday:	2	9.5%	
16:00 ~18:30:	4	19.0%		Thursday:	3	14.3%	
18:30 ~ 07:30:	7	33.3%		Friday:	5	23.8%	
Unspecified:	0	0.0%		Saturday:	1	4.8%	
Weather Condition				Surface Condition			
	#ACC	%			#ACC	%	
Clear:	20	95.2%		Dry:	18	85.7%	
Rain:	1	4.8%		Wet:	1	4.8%	
Snow:	0	0.0%		Snow/Ice:	0	0.0%	
Sleet/Hail:	0	0.0%		Slush:	1	4.8%	
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:	1	4.8%	
Type of Vehicle				Accident Severity Type			
	#VEH	%			#ACC	%	
Passenger Car:	27	73.0%		Fatal Collision:	0	0.0%	
Bus:	1	2.7%		Injury Collision:	6	28.6%	
Truck:	3	8.1%		PDO Collision:	15	71.4%	
Taxi:	2	5.4%		Light Condition			
Minivan:	0	0.0%			#ACC	%	
Police/Emergency Vehicle:	0	0.0%		Daylight:	14	66.7%	
Motorcycle/Moped:	0	0.0%		Dawn/Dusk:	2	9.5%	
Bicycle:	0	0.0%		Dark(Lighted):	3	14.3%	
Fixed Object:	0	0.0%		Dark(Not Lighted):	0	0.0%	
Unspecified:	4	10.8%		Dark(Unknown Lighting):	0	0.0%	
				Unspecified:	2	9.5%	
Contributing Factor				Pedestrian Actions			
	#VEH	%			#ACC	%	
Driver: Speed:	1	2.7%		In Crosswalk with Signal:	0	0.0%	
Driver: Alcohol/Drug:	1	2.7%		In Crosswalk against Signal:	0	0.0%	
Driver: Electronic Device:	0	0.0%		In Crosswalk no Signal:	0	0.0%	
Driver: Others:	4	10.8%		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:	31	83.8%		Unspecified:	0	0.0%	

11 Records are not approved as of 1/9/2014 6:31:08 PM