

## TECHNICAL MEMORANDUM

To: Penny Evins  
Tracey Fudge  
Cc: Soo Lee-Cho  
From: Lauren Buford  
Maribel Donahue  
Katie Wagner, PE, PTOE  
Date: October 17, 2025  
Subject: Holton-Arms School 2025 Supplemental Analysis

Holton-Arms School  
Bregman, Berbert, Schwartz & Gilday

### Introduction

The following document presents supplemental analysis conducted for the proposed Holton-Arms School (“Holton-Arms” or “School”) enrollment cap increase from 670 students to 870 students during the school year and 970 summer campers during the summer. The supplemental analysis is provided to expand on the traffic data used in the Holton-Arms Local Area Transportation Review submitted Friday, September 12<sup>th</sup>, 2025 (the “LATR”), and to review traffic flow through the Al Marah neighborhood potentially associated with Holton-Arms School.

The objectives of the supplemental analysis in this memo are the following:

- Compare the baseline traffic volumes used in the LATR collected on January 30 and October 9, 2024 to traffic counts collected on September 9, 2025.
- Review the impact of Holton-Arms School operations on traffic through the Al Marah neighborhood.

The findings of the supplemental analysis are summarized as follows:

- A comparison of the traffic volumes used in the LATR and the Fall 2025 traffic volumes shows that the LATR’s baseline volumes are higher than the Fall 2025 counts; therefore, the LATR presents a conservative analysis of roadway conditions and the School’s traffic impact.
- A review of the vehicles observed driving through the Al Marah neighborhood in the AM and PM peaks indicates Holton-Arms families who have students also enrolled at The Primary Day School (“Primary Day”) are the main source of Holton-Arms associated vehicles driving through the Al Marah neighborhood.
  - A minimum number of vehicles were observed during a field visit to enter/exit the Al Marah neighborhood via Burdette Road and via Royal Dominion Drive from/into Holton-Arms. These trips do not preclude vehicles that travel between Holton-Arms and Primary Day.

### LATR Volume Comparison

The analysis contained in the LATR is based on traffic counts collected on Tuesday January 30, 2024 and Wednesday, October 9, 2024. The LATR included the following study periods:

- School Year AM School Peak Hour (7:15-8:15 AM)
  - This is when the number of School-generated trips on the network is highest, and any potential impact associated with the proposed enrollment increase would be highest at this time. The morning roadway peak hour (8:15 – 9:15 AM) was not analyzed as the School-generated trips are minimal during this time.

- School Year PM Roadway Peak Hour (3:15-4:15 PM)
  - The afternoon School peak hour (3:30-4:30 PM) and afternoon roadway peak hour (3:15-4:15 PM) overlapped. The afternoon roadway peak hour traffic volumes were used to establish the baseline roadway volumes to provide a conservative analysis.
- Summer Session PM Peak Hour (2:30-3:30 PM)
  - This is when the number of summer camp-generated afternoon trips on the network is highest, and any potential impact associated with the proposed summer camp enrollment increase would be highest at this time.
  - School year roadway volumes were used for the summer PM peak hour analysis as required by the LATR Guidelines. This provides a very conservative analysis scenario as traffic volumes during the summer are significantly lower than during the school year.

**Overall Volume Comparison**

Additional traffic counts were collected at the study intersections included in the LATR on Tuesday September 9, 2025, when schools and the federal government were in session. The traffic counts are attached to this memo.

A comparison between the traffic volumes used in the LATR and the Fall 2025 counts show that 2025 traffic volumes were lower overall than the volumes analyzed in the LATR. The “peak hours,” the hour when volumes are at their highest, were compared, Table 1 compares the traffic volumes collected among the study’s seven (7) intersections. The general findings of the volume comparison are summarized as follows:

- The morning commuter peak hour is 45 minutes earlier at 7:30-8:30 AM, meaning commuters are more likely to encounter school traffic despite the decrease in roadway volumes.
- The LATR AM School Peak hour volumes are greater than the 2025 AM Roadway Peak hour volumes.
- Both the AM School Peak hour and the PM Roadway Peak hour did not change in time, still occurring at 7:15-8:15 AM and 3:15-4:15 PM, respectively.

**Table 1: Percent Change in Study Area Total Volumes between 2024 and 2025**

2024 LATR Volumes to 2025 Counts % Change			
AM School Peak (7:15-8:15 AM)	LATR AM School Peak vs 2025 AM Roadway Peak*	PM Roadway Peak (3:15-4:15 PM)	Summer School Peak (2:30-3:30 PM)
-7.29%	-5.19%	-11.87%	-13.23%

\*In the LATR, the AM School Peak was analyzed, as it did not overlap with the AM Roadway (or commuter) Peak. As the 2025 AM Roadway Peak overlapped with the LATR AM School Peak, we compared the volumes in case there was more traffic on the roadway than in 2024. Volumes still decreased, meaning the LATR analysis was conservative.

As detailed above, traffic volumes throughout the corridor decreased between what was analyzed in the LATR and the Fall 2025 traffic counts. A likely explanation for this decrease in traffic volume is the stricter return to office mandates that have been put in place between the two time periods of data collection, which have changed commuting patterns. It is likely that fewer people are using the River Road corridor and are instead opting for roadways with a higher capacity or opting for public transportation instead of driving to work and paying for parking five days a week.

## AI Marah Neighborhood Traffic Review

An analysis was also completed to review the traffic traveling through the AI Marah neighborhood to better understand neighborhood comments and observations. Field observations were conducted at the intersection of River Road & Royal Dominion Drive as well as River Road & Burdette Road to observe traffic patterns and compare surveys of license plates entering and exiting the neighborhood. Based on field observations, much of the traffic on Royal Dominion Drive within the AI Marah neighborhood is generated by Primary Day located in the southeast quadrant of the River Road/Royal Dominion Drive intersection. Traffic entering the Holton-Arms driveway from the south is almost entirely made up of parents or staff/faculty dropping off students at Primary Day before arriving at Holton-Arms.

This analysis consisted of the following:

- A review of Holton-Arms families with siblings/children enrolled at Primary Day to determine the number of potential Holton-Arms trips generated from Primary Day.
- A review of Holton-Arms families that live in the AI Marah neighborhood to determine the number of potential Holton-Arms trips generated from the AI Marah neighborhood.
- Field survey conducted on Tuesday September 9, 2025, during the peak periods, while schools and the federal government were in session.
  - Included observations of vehicles entering the AI Marah neighborhood via Burdette Road and vehicles traveling between the Holton-Arms and the AI Marah neighborhood via Royal Dominion Drive.
- A review of traffic volumes collected at the River Road and Burdette Road intersection and the River Road and Royal Dominion Drive intersection on the same day as the field survey.

The results of the analysis are summarized below:

### ***Primary Day School/AI Marah Enrollment at Holton-Arms School***

- Holton-Arms has 18 families with children enrolled at the Primary Day School (15 student families and 3 employees).
- There are 4 Holton-Arms students who live in the AI Marah neighborhood.
  - No students were observed walking to Holton-Arms from the neighborhood.
- Based on Primary Day enrollment and students living in the AI Marah neighborhood, there are up to 22 vehicles expected to travel between the AI Marah neighborhood and the Holton-Arms School.

### ***Field Observations***

To quantify the level cut-through trips associated with Holton-Arms, site observations were conducted at the intersection of River Road & Royal Dominion Drive as well as River Road & Burdette Road during the peak morning arrival and afternoon dismissal periods. The license plate numbers of vehicles entering and exiting the AI Marah neighborhood were surveyed at both intersections and then compared to find any instances of overlap. Vehicle trips recorded at both intersections were further evaluated relative to dual Holton-Arms/Primary Day enrollment numbers to determine whether these trips could fall outside dual Holton-Arms/Primary Day trips.

- License plate survey and field observations on September 9, 2025, show only 8 confirmed instances of vehicles entering or exiting Holton-Arms via the AI Marah neighborhood at Royal Dominion Drive, **as well as** entering or exiting the AI Marah neighborhood at Burdette Road.
  - 6 trips were observed in the morning

- 2 trips were observed in the afternoon
- One bus was captured entering Holton-Arms from the neighborhood.
  - This has been brought to the attention of the School, and it has been confirmed that a substitute bus driver from the bus company was working that day. This is not typical for the School, and the company has been notified so this will not happen again.

Based on the field survey, trips travelling into or out of the School via the Al Marah neighborhood are not all considered cut-through trips. If the vehicles were not observed to enter/exit the neighborhood at the Burdette Road intersection, it was assumed that the traffic is generated from within the neighborhood or was generated by a vehicle who entered and exited via Royal Dominion Drive to access Primary Day. Due to the significant number of vehicles observed entering and exiting Primary Day, and the overlap in Holton-Arms and Primary Day enrollment, it is a reasonable assumption that the majority of trips observed traveling through the Al Marah neighborhood and entering/exiting Holton-Arms were also visiting Primary Day.

### **2025 Traffic Counts**

As shown in Figure 1 below, the number of vehicles traveling between Holton-Arms and the Al Marah neighborhood is consistent with the number of Holton-Arms families with children enrolled at Primary Day and living in the neighborhood during the morning peak hours. This indicates that reports of cut-through traffic entering the Al Marah neighborhood via Burdette Road and exit at Royal Dominion Drive are not solely generated by Holton-Arms.

Figure 2 and Figure 3 also present a comparison of peak hour volumes entering/exiting the Al Marah neighborhood at the River Road and Burdette Road intersection and peak hour volumes entering/exiting Holton-Arms via the Al Marah neighborhood at the River Road and Royal Dominion Drive intersection. As Figure 2 and Figure 3 show and given that the number of trips going between Holton-Arms and Al Marah are fairly low and are consistent with the number of families enrolled at Primary Day or living in the neighborhood, the count data and field observations indicate Holton-Arms is not the source of cut-through activity in the Al Marah neighborhood. The vehicles traveling through the neighborhood are more likely related to vehicles that drop-off students at Primary Day and continue on eastbound River Road. As noted in the previous section, a total of eight (8) vehicles were observed to travel through the neighborhood for both the peak AM and PM periods, and the majority of cars observed travelling between the Holton-Arms driveway and the Al Marah neighborhood were observed entering Primary Day.

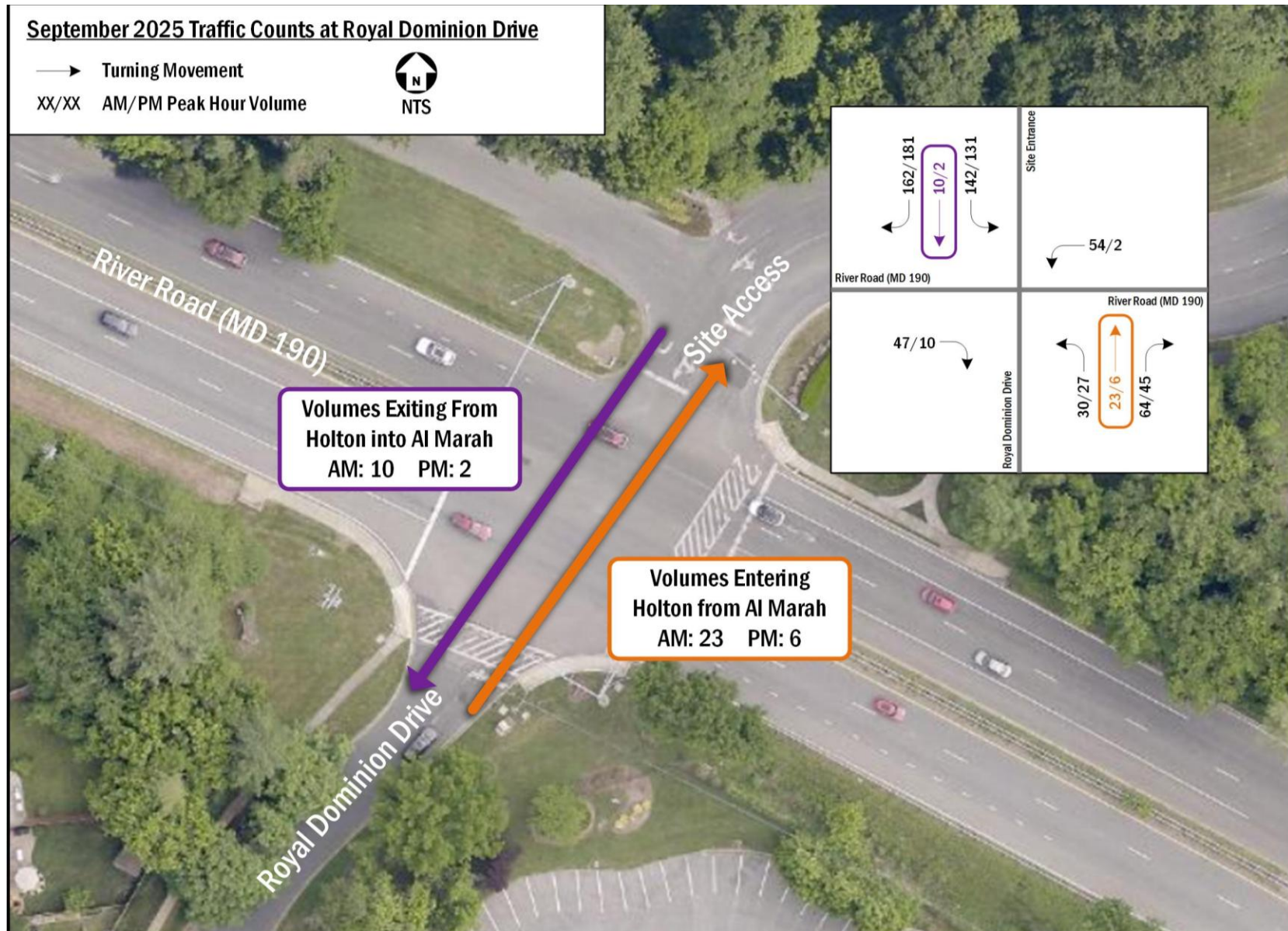


Figure 1: September 2025 Peak Hour Traffic Counts at Royal Dominion Drive

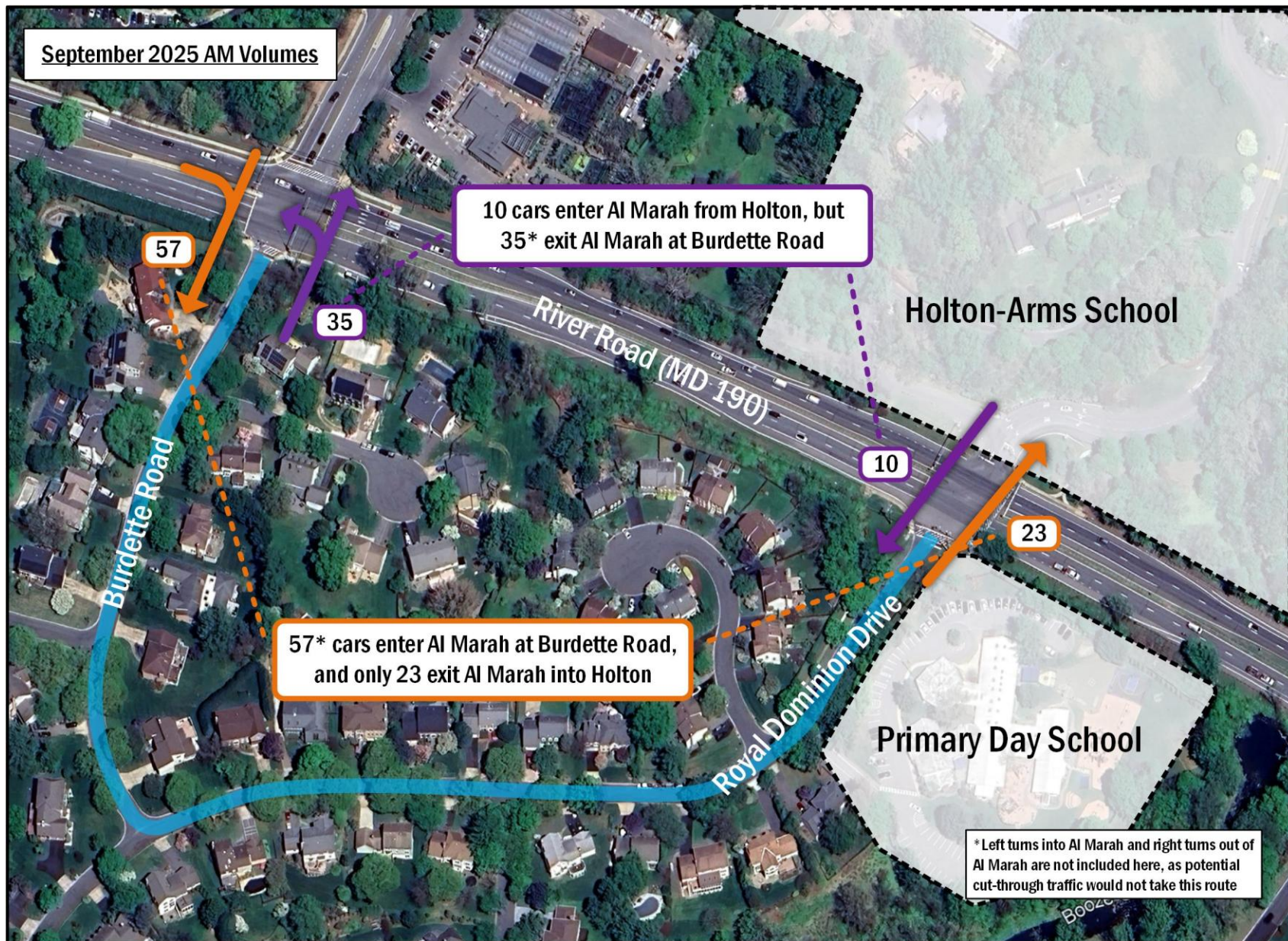


Figure 2: September 2025 AM Peak Hour Volumes

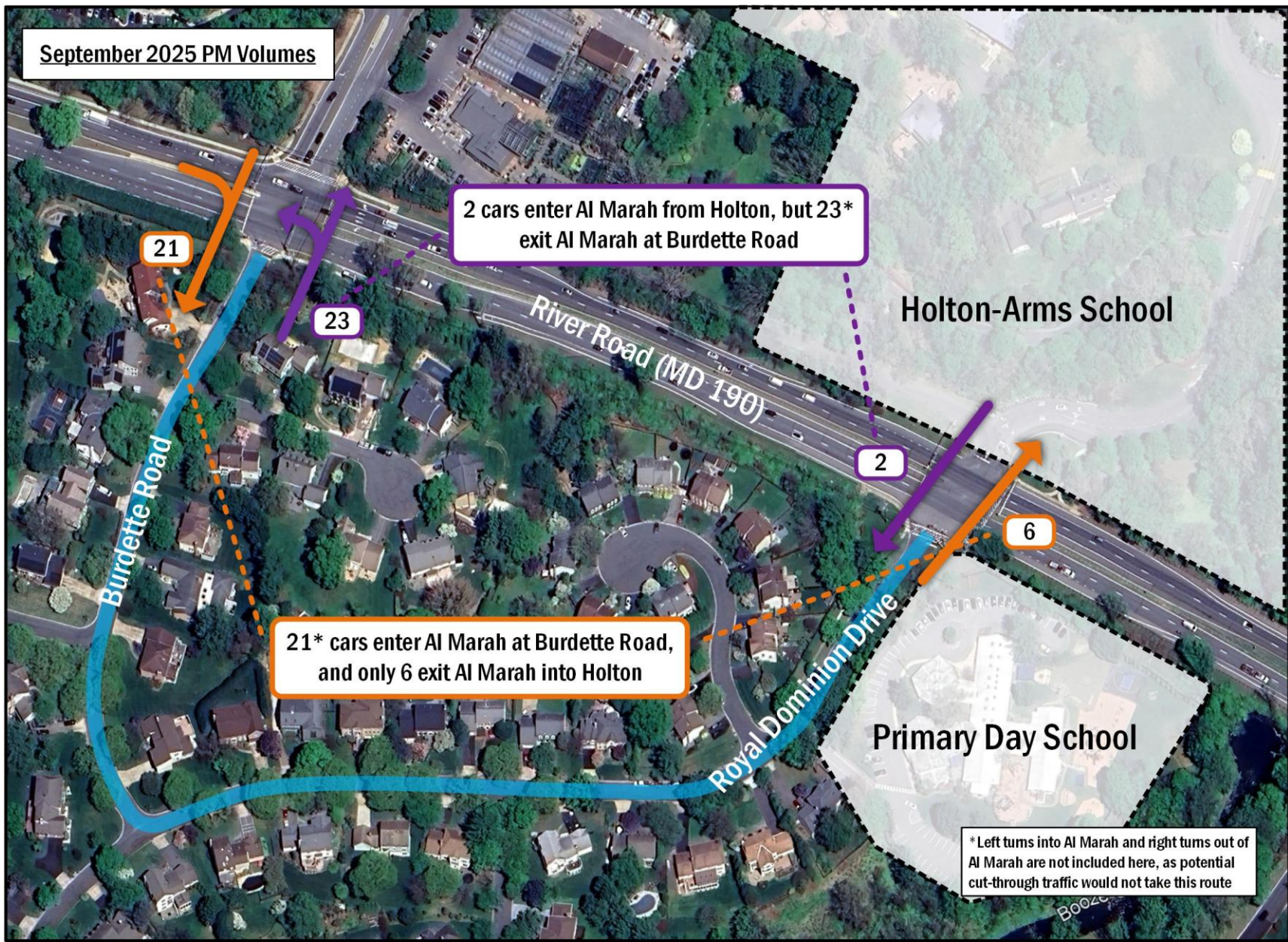


Figure 3: September 2025 PM Peak Hour Volumes





**Gorove/Slade Associates - Multimodal Turning Movement Count Report**

Project Name : Holton Arms School Expansion  
 Project # : 2009-005  
 Location : Montgomery County, MD  
 Data Source : Gorove/Slade Associates, Inc.

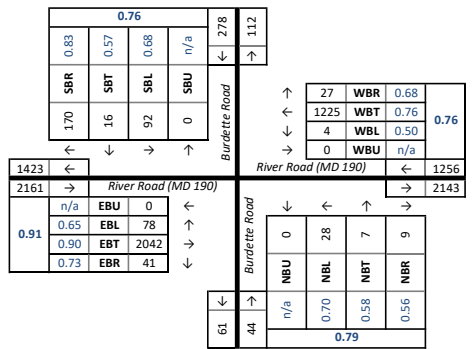
Analysis Period : STUDY PERIOD  
 Date of Counts : Tuesday, September 9, 2025  
 Weather : Partly Cloudy

06:30 AM to 09:30 AM

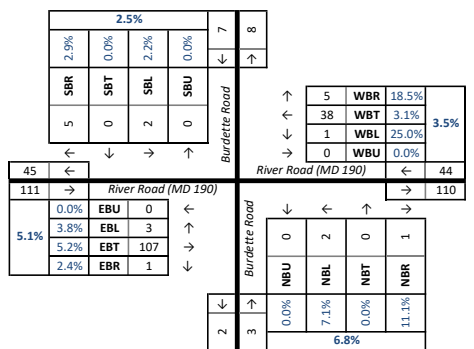
Volumes Displayed as: 3. User-Defined  
 Intersection Peak Hour (all vehicles): 07:30 AM to 08:30 AM  
 System Peak Hour (all vehicles): 07:30 AM to 08:30 AM  
 User-Defined Peak Hour: 07:15 AM to 08:15 AM

Intersection: 1. Burdette Road & River Road (MD 190)		Southbound					Westbound					Northbound					Eastbound					
ALL VEHICLES	Direction: Burdette Road Movement:	Burdette Road					River Road (MD 190)					Burdette Road					River Road (MD 190)					
		U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	
06:30 AM to 06:45 AM		0	4	0	19	0	0	1	132	2	0	0	1	1	1	0	2	13	342	1	0	
06:45 AM to 07:00 AM		0	8	1	15	0	0	1	122	4	0	0	4	0	1	0	0	11	426	1	0	
07:00 AM to 07:15 AM		0	5	1	20	0	0	1	225	4	1	0	5	0	0	0	1	15	547	7	0	
07:15 AM to 07:30 AM		0	12	1	32	0	0	0	251	2	0	0	10	1	3	0	0	15	570	6	0	
07:30 AM to 07:45 AM		0	24	2	38	0	0	1	280	6	0	0	3	1	4	0	0	9	533	13	0	
07:45 AM to 08:00 AM		0	22	7	49	0	0	1	292	9	0	0	7	3	0	0	0	24	426	14	0	
08:00 AM to 08:15 AM		0	34	6	51	0	0	2	402	10	1	0	8	2	2	0	0	30	513	8	0	
08:15 AM to 08:30 AM		0	14	1	45	0	0	3	379	10	0	0	9	1	2	0	1	20	521	8	0	
08:30 AM to 08:45 AM		0	11	1	48	1	1	0	316	8	2	0	8	0	3	0	0	18	343	3	0	
08:45 AM to 09:00 AM		0	6	1	39	0	0	0	300	7	0	0	2	0	0	0	3	16	361	0	0	
09:00 AM to 09:15 AM		0	11	0	58	0	0	0	283	13	0	0	8	2	1	0	1	23	375	3	0	
09:15 AM to 09:30 AM		0	16	1	88	0	0	1	300	11	2	0	4	0	0	0	0	18	311	2	0	
09:30 AM to 09:45 AM																						
09:45 AM to 10:00 AM																						
10:00 AM to 10:15 AM																						
10:15 AM to 10:30 AM																						
10:30 AM to 10:45 AM																						
10:45 AM to 11:00 AM																						
11:00 AM to 11:15 AM																						
11:15 AM to 11:30 AM																						
<b>USER-DEFINED PEAK HR</b>		278					1256					44					2161					
07:15 AM to 08:15 AM		0	92	16	170	0	0	4	1225	27	1	0	28	7	9	0	0	78	2042	41	0	
<b>Peak Hour</b>		Overall	U	Left	Thru	Right	SB	U	Left	Thru	Right	WB	U	Left	Thru	Right	NB	U	Left	Thru	Right	EB
<b>Factor (PHF)</b>		0.88	n/a	0.68	0.57	0.83	0.76	n/a	0.50	0.76	0.68	0.76	n/a	0.70	0.58	0.56	0.79	n/a	0.65	0.90	0.73	0.91
<b>HEAVY VEHICLES (FHWA 4+)</b>		278					1256					44					2161					
06:30 AM to 06:45 AM		0	1	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	20	0	0	
06:45 AM to 07:00 AM		0	1	0	1	0	0	0	6	1	0	0	0	0	0	0	0	0	33	1	0	
07:00 AM to 07:15 AM		0	1	1	0	0	0	0	7	3	0	1	0	0	0	0	1	33	3	0	0	
07:15 AM to 07:30 AM		0	1	0	0	0	0	0	13	1	0	2	0	0	0	0	1	20	0	0	0	
07:30 AM to 07:45 AM		0	0	0	1	0	0	0	3	1	0	0	0	0	1	0	0	30	1	0	0	
07:45 AM to 08:00 AM		0	0	0	2	0	0	1	12	2	0	0	0	0	0	0	1	31	0	0	0	
08:00 AM to 08:15 AM		0	1	0	2	0	0	0	10	1	0	0	0	0	0	0	1	26	0	0	0	
08:15 AM to 08:30 AM		0	0	0	1	0	0	0	18	2	0	0	0	0	0	0	0	43	2	0	0	
08:30 AM to 08:45 AM		0	1	0	2	0	0	0	11	1	0	0	0	0	0	0	1	19	0	0	0	
08:45 AM to 09:00 AM		0	1	0	1	0	0	0	18	1	0	0	0	0	0	0	2	19	0	0	0	
09:00 AM to 09:15 AM		0	1	0	4	0	0	0	18	4	0	0	0	0	0	0	0	21	0	0	0	
09:15 AM to 09:30 AM		0	1	0	4	0	0	0	35	3	0	0	0	0	0	0	0	16	0	0	0	
09:30 AM to 09:45 AM																						
09:45 AM to 10:00 AM																						
10:00 AM to 10:15 AM																						
10:15 AM to 10:30 AM																						
10:30 AM to 10:45 AM																						
10:45 AM to 11:00 AM																						
11:00 AM to 11:15 AM																						
11:15 AM to 11:30 AM																						
<b>USER-DEFINED PEAK HR</b>		7					44					3					111					
07:15 AM to 08:15 AM		0	2	0	5	0	0	1	38	5	0	0	2	0	1	0	0	3	107	1	0	
<b>Heavy Vehicle % (PHV)</b>		0.0%	2.2%	0.0%	2.9%	2.5%	0.0%	25.0%	3.1%	18.5%	3.5%	0.0%	7.1%	0.0%	11.1%	6.8%	0.0%	3.8%	5.2%	2.4%	5.1%	
<b>INT. PEAK HR (HV ONLY)</b>		7					50					1					135					
07:30 AM to 08:30 AM		0	1	0	6	0	0	1	43	6	0	0	0	0	1	0	0	2	130	3	0	
<b>Heavy Vehicle % (PHV)</b>		0.0%	1.1%	0.0%	3.3%	2.4%	0.0%	14.3%	3.2%	17.1%	3.6%	0.0%	0.0%	0.0%	12.5%	2.4%	0.0%	2.4%	6.5%	7.0%	6.4%	
<b>BICYCLES</b>		0					0					0					0					
06:30 AM to 06:45 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
06:45 AM to 07:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:00 AM to 07:15 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:15 AM to 07:30 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:30 AM to 07:45 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:45 AM to 08:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:00 AM to 08:15 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:15 AM to 08:30 AM		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
08:30 AM to 08:45 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:45 AM to 09:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:00 AM to 09:15 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:15 AM to 09:30 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:30 AM to 09:45 AM																						
09:45 AM to 10:00 AM																						
10:00 AM to 10:15 AM																						
10:15 AM to 10:30 AM																						
10:30 AM to 10:45 AM																						
10:45 AM to 11:00 AM																						
11:00 AM to 11:15 AM																						
11:15 AM to 11:30 AM																						
<b>USER-DEFINED PEAK HR</b>		0					0					0					0					
07:15 AM to 08:15 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>INT. PEAK HR (BIKES)</b>		0					1					0					0					
07:30 AM to 08:30 AM		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	

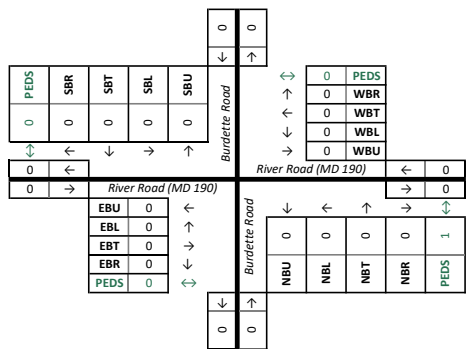
**VEHICLE PEAK HOUR VOLS AND PHF: User-Defined (07:15 AM-08:15 AM)**



**HEAVY VEH PEAK HOUR VOLS AND PHF: User-Defined (07:15 AM-08:15 AM)**



**PED AND BIKE PEAK HOUR VOLUMES: User-Defined (07:15 AM-08:15 AM)**



**DATA COLLECTION NOTES:**

**Gorove/Slade Associates - Multimodal Turning Movement Count Report**

Project Name : Holton Arms School Expansion  
 Project # : 2009-005  
 Location : Montgomery County, MD  
 Data Source : Gorove/Slade Associates, Inc.

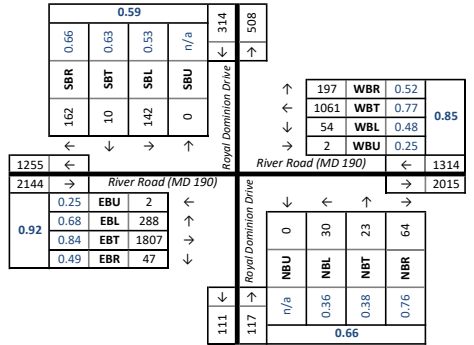
Analysis Period : STUDY PERIOD  
 Date of Counts : Tuesday, September 9, 2025  
 Weather : Partly Cloudy

06:30 AM to 09:30 AM

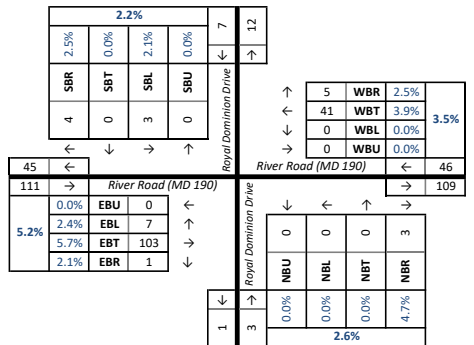
Volumes Displayed as: 3. User-Defined  
 Intersection Peak Hour (all vehicles): 07:30 AM to 08:30 AM  
 System Peak Hour (all vehicles): 07:30 AM to 08:30 AM  
 User-Defined Peak Hour: 07:15 AM to 08:15 AM

Intersection:		1. Royal Dominion Drive & River Road (MD 190)																								
ALL VEHICLES	Direction: Roadway: Movement:	Southbound					Westbound					Northbound					Eastbound									
		Royal Dominion Drive					River Road (MD 190)					Royal Dominion Drive					River Road (MD 190)									
		U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds					
06:30 AM to 06:45 AM		0	1	0	0	1	0	1	134	1	1	0	1	0	1	1	0	8	334	3	0					
06:45 AM to 07:00 AM		0	1	0	1	0	0	0	125	1	3	0	1	0	4	4	0	12	420	3	0					
07:00 AM to 07:15 AM		0	4	1	5	0	0	1	224	13	1	0	0	1	3	1	1	34	514	3	0					
07:15 AM to 07:30 AM		0	10	0	6	0	0	7	248	24	4	0	0	0	7	2	0	40	540	5	0					
07:30 AM to 07:45 AM		0	45	2	47	0	0	10	237	64	0	0	1	6	15	0	2	106	447	6	0					
07:45 AM to 08:00 AM		0	67	4	61	0	0	9	233	95	0	0	8	15	21	0	0	91	345	12	0					
08:00 AM to 08:15 AM		0	20	4	48	1	2	28	343	14	2	0	21	2	21	2	0	51	475	24	0					
08:15 AM to 08:30 AM		0	3	0	8	0	0	5	366	6	0	0	18	1	24	0	0	4	525	8	0					
08:30 AM to 08:45 AM		0	2	1	2	0	0	3	319	0	1	0	2	0	2	2	2	4	350	2	0					
08:45 AM to 09:00 AM		0	0	0	1	0	0	3	302	3	0	0	2	0	2	0	1	1	365	1	0					
09:00 AM to 09:15 AM		0	1	0	1	0	0	2	294	2	0	0	0	0	8	0	1	2	383	1	0					
09:15 AM to 09:30 AM		0	4	0	4	0	0	2	307	1	0	0	2	0	6	0	0	0	322	4	0					
09:30 AM to 09:45 AM																										
09:45 AM to 10:00 AM																										
10:00 AM to 10:15 AM																										
10:15 AM to 10:30 AM																										
10:30 AM to 10:45 AM																										
10:45 AM to 11:00 AM																										
11:00 AM to 11:15 AM																										
11:15 AM to 11:30 AM																										
<b>USER-DEFINED PEAK HR</b>		314					1314					117					2144									
07:15 AM to 08:15 AM		0	142	10	162	1	2	54	1061	197	6	0	30	23	64	4	2	288	1807	47	0					
<b>Peak Hour</b>		Overall					WB					NB					EB									
<b>Factor (PHF)</b>		0.92					0.85					0.66					0.92									
<b>HEAVY VEHICLES (FHWA 4+)</b>		Direction: Roadway: Movement:					Southbound					Westbound					Northbound					Eastbound				
		Royal Dominion Drive					River Road (MD 190)					Royal Dominion Drive					River Road (MD 190)									
		U	Left	Thru	Right		U	Left	Thru	Right		U	Left	Thru	Right		U	Left	Thru	Right						
06:30 AM to 06:45 AM		0	1	0	0		0	0	5	0		0	0	0	0		0	0	21	0						
06:45 AM to 07:00 AM		0	1	0	0		0	0	7	0		0	0	0	0		0	1	33	0						
07:00 AM to 07:15 AM		0	2	0	1		0	0	9	0		0	0	0	0		0	1	33	0						
07:15 AM to 07:30 AM		0	0	0	0		0	0	15	0		0	0	0	1		0	0	20	1						
07:30 AM to 07:45 AM		0	3	0	1		0	0	3	3		0	0	0	1		0	5	26	0						
07:45 AM to 08:00 AM		0	0	0	2		0	0	13	1		0	0	0	1		0	2	29	0						
08:00 AM to 08:15 AM		0	0	0	1		0	0	10	1		0	0	0	0		0	0	28	0						
08:15 AM to 08:30 AM		0	0	0	0		0	0	20	0		0	0	0	0		0	0	43	0						
08:30 AM to 08:45 AM		0	0	0	0		0	0	12	0		0	0	0	0		1	1	19	0						
08:45 AM to 09:00 AM		0	0	0	0		0	1	19	1		0	0	0	0		0	0	20	0						
09:00 AM to 09:15 AM		0	0	0	1		0	1	21	0		0	0	0	3		0	0	22	0						
09:15 AM to 09:30 AM		0	0	0	0		0	0	38	0		0	0	0	0		0	0	16	1						
09:30 AM to 09:45 AM																										
09:45 AM to 10:00 AM																										
10:00 AM to 10:15 AM																										
10:15 AM to 10:30 AM																										
10:30 AM to 10:45 AM																										
10:45 AM to 11:00 AM																										
11:00 AM to 11:15 AM																										
11:15 AM to 11:30 AM																										
<b>USER-DEFINED PEAK HR</b>		7					46					3					111									
07:15 AM to 08:15 AM		0	3	0	4		0	0	41	5		0	0	0	3		0	7	103	1						
<b>Heavy Vehicle % (PHV)</b>		0.0%					2.2%					2.6%					5.2%									
<b>INT. PEAK HR (HV ONLY)</b>		7					51					2					133									
07:30 AM to 08:30 AM		0	3	0	4		0	0	46	5		0	0	0	2		0	7	126	0						
<b>Heavy Vehicle % (PHV)</b>		0.0%					2.3%					3.6%					1.3%									
<b>BICYCLES</b>		Direction: Roadway: Movement:					Southbound					Westbound					Northbound					Eastbound				
		Royal Dominion Drive					River Road (MD 190)					Royal Dominion Drive					River Road (MD 190)									
		U	Left	Thru	Right		U	Left	Thru	Right		U	Left	Thru	Right		U	Left	Thru	Right						
06:30 AM to 06:45 AM		0	0	0	0		0	0	0	1		0	0	0	0		0	0	0	0						
06:45 AM to 07:00 AM		0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0						
07:00 AM to 07:15 AM		0	0	0	0		0	0	0	1		0	0	0	0		0	0	0	0						
07:15 AM to 07:30 AM		0	0	0	0		0	0	0	1		0	0	0	0		0	0	0	0						
07:30 AM to 07:45 AM		0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0						
07:45 AM to 08:00 AM		0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0						
08:00 AM to 08:15 AM		0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0						
08:15 AM to 08:30 AM		0	0	0	0		0	0	1	0		0	0	0	0		0	0	0	0						
08:30 AM to 08:45 AM		0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0						
08:45 AM to 09:00 AM		0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0						
09:00 AM to 09:15 AM		0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0						
09:15 AM to 09:30 AM		0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0						
09:30 AM to 09:45 AM																										
09:45 AM to 10:00 AM																										
10:00 AM to 10:15 AM																										
10:15 AM to 10:30 AM																										
10:30 AM to 10:45 AM																										
10:45 AM to 11:00 AM																										
11:00 AM to 11:15 AM																										
11:15 AM to 11:30 AM																										
<b>USER-DEFINED PEAK HR</b>		0					1					0					0									
07:15 AM to 08:15 AM		0	0	0	0		0	0	0	1		0	0	0	0		0	0	0	0						
<b>INT. PEAK HR (BIKES)</b>		0					3					0					0									
06:30 AM to 07:30 AM		0	0	0	0		0	0	0	3		0	0	0	0		0	0	0	0						

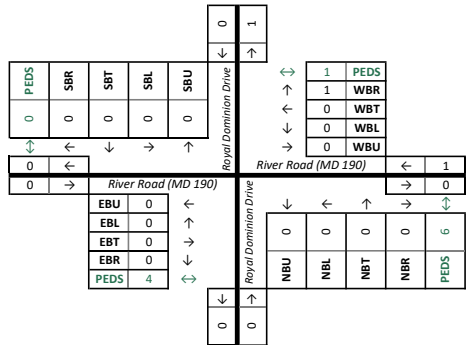
**VEHICLE PEAK HOUR VOLS AND PHF: User-Defined (07:15 AM-08:15 AM)**



**HEAVY VEH PEAK HOUR VOLS AND PHF: User-Defined (07:15 AM-08:15 AM)**



**PED AND BIKE PEAK HOUR VOLUMES: User-Defined (07:15 AM-08:15 AM)**



**DATA COLLECTION NOTES:**

**Gorove/Slade Associates - Multimodal Turning Movement Count Report**

Project Name : Holton Arms School Expansion  
 Project # : 2009-005  
 Location : Montgomery County, MD  
 Data Source : Gorove/Slade Associates, Inc.

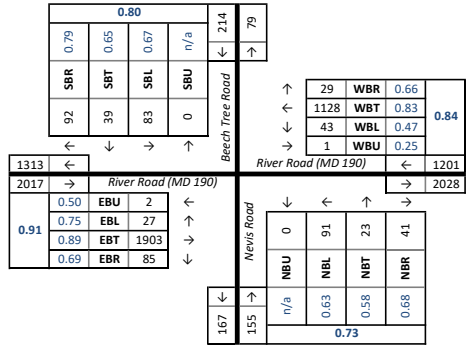
Analysis Period : STUDY PERIOD  
 Date of Counts : Tuesday, September 9, 2025  
 Weather : Partly Cloudy

06:30 AM to 09:30 AM

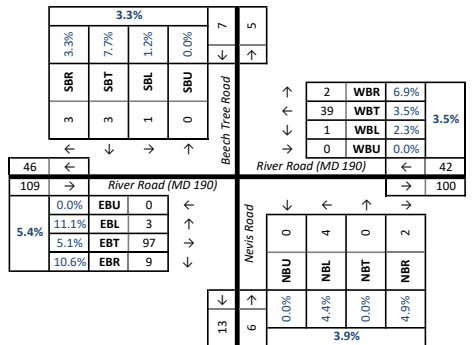
Volumes Displayed as: 3. User-Defined  
 Intersection Peak Hour (all vehicles): 07:30 AM to 08:30 AM  
 System Peak Hour (all vehicles): 07:30 AM to 08:30 AM  
 User-Defined Peak Hour: 07:15 AM to 08:15 AM

Intersection:		1. Beech Tree Road/Nevis Road & River Road (MD 190)																				
ALL VEHICLES	Direction: Roadway: Movement:	Southbound					Westbound					Northbound					Eastbound					
		Beech Tree Road					River Road (MD 190)					Nevis Road					River Road (MD 190)					
		U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	
06:30 AM to 06:45 AM		0	2	0	6	0	0	0	122	0	1	0	8	0	2	0	0	9	320	7	0	
06:45 AM to 07:00 AM		0	5	0	8	0	0	2	113	1	0	0	6	0	1	0	0	6	413	7	0	
07:00 AM to 07:15 AM		0	7	2	7	0	0	3	221	4	0	0	9	0	4	0	1	8	499	13	0	
07:15 AM to 07:30 AM		0	12	3	24	0	0	4	239	6	0	0	15	2	12	0	1	7	533	16	0	
07:30 AM to 07:45 AM		0	23	15	29	0	0	7	269	6	0	0	13	3	15	0	1	3	488	16	0	
07:45 AM to 08:00 AM		0	31	12	22	0	1	23	279	11	2	0	36	10	7	0	0	8	394	31	0	
08:00 AM to 08:15 AM		0	17	9	17	0	0	9	341	6	1	0	27	8	7	0	0	9	488	22	0	
08:15 AM to 08:30 AM		0	20	4	16	0	1	6	345	3	0	0	16	2	9	0	0	11	520	21	0	
08:30 AM to 08:45 AM		0	9	5	20	0	0	5	284	8	0	0	18	0	9	0	0	15	328	11	0	
08:45 AM to 09:00 AM		0	10	3	15	1	1	8	281	11	1	0	11	2	8	0	0	6	353	9	0	
09:00 AM to 09:15 AM		0	11	3	20	0	1	7	268	13	0	0	10	3	5	0	0	10	354	25	0	
09:15 AM to 09:30 AM		0	22	2	37	0	0	7	263	7	1	0	11	1	5	0	0	9	314	10	0	
09:30 AM to 09:45 AM																						
09:45 AM to 10:00 AM																						
10:00 AM to 10:15 AM																						
10:15 AM to 10:30 AM																						
10:30 AM to 10:45 AM																						
10:45 AM to 11:00 AM																						
11:00 AM to 11:15 AM																						
11:15 AM to 11:30 AM																						
<b>USER-DEFINED PEAK HR</b>		214					1201					155					2017					
07:15 AM to 08:15 AM		0	83	39	92	0	1	43	1128	29	3	0	91	23	41	0	2	27	1903	85	0	
Peak Hour Overall		U	Left	Thru	Right	SB	U	Left	Thru	Right	WB	U	Left	Thru	Right	NB	U	Left	Thru	Right	EB	
Factor (PHF)		0.93	n/a	0.67	0.65	0.79	0.80	0.25	0.47	0.83	0.66	0.84	n/a	0.63	0.58	0.68	0.73	0.50	0.75	0.89	0.69	0.91
HEAVY VEHICLES (FHWA 4+)	Direction: Roadway: Movement:	Southbound					Westbound					Northbound					Eastbound					
ALL VEHICLES	Direction: Roadway: Movement:	Beech Tree Road					River Road (MD 190)					Nevis Road					River Road (MD 190)					
		U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	
		U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	
06:30 AM to 06:45 AM		0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	2	19	1	1	
06:45 AM to 07:00 AM		0	0	0	0	0	0	0	4	0	0	0	1	0	0	0	0	1	32	2	2	
07:00 AM to 07:15 AM		0	0	0	0	0	0	0	7	0	0	0	2	0	0	0	0	3	28	4	4	
07:15 AM to 07:30 AM		0	0	0	1	0	0	0	12	2	0	0	2	0	0	0	0	1	17	3	3	
07:30 AM to 07:45 AM		0	1	0	1	0	0	0	4	0	0	0	1	0	2	0	0	0	29	1	1	
07:45 AM to 08:00 AM		0	0	1	1	0	0	1	12	0	0	0	1	0	0	0	0	0	27	3	3	
08:00 AM to 08:15 AM		0	0	2	0	0	0	0	11	0	0	0	0	0	0	0	0	2	24	2	2	
08:15 AM to 08:30 AM		0	2	0	0	0	0	0	19	0	0	0	1	0	2	0	0	3	39	1	1	
08:30 AM to 08:45 AM		0	0	0	1	0	0	0	11	0	0	0	0	0	0	0	0	2	16	1	1	
08:45 AM to 09:00 AM		0	0	0	1	0	0	0	18	0	0	0	2	0	0	0	0	0	20	0	0	
09:00 AM to 09:15 AM		0	0	0	1	0	0	1	21	2	0	0	0	0	2	0	0	1	18	6	6	
09:15 AM to 09:30 AM		0	3	0	14	0	0	0	22	2	0	0	2	0	1	0	0	2	13	1	1	
09:30 AM to 09:45 AM																						
09:45 AM to 10:00 AM																						
10:00 AM to 10:15 AM																						
10:15 AM to 10:30 AM																						
10:30 AM to 10:45 AM																						
10:45 AM to 11:00 AM																						
11:00 AM to 11:15 AM																						
11:15 AM to 11:30 AM																						
<b>USER-DEFINED PEAK HR</b>		7					42					6					109					
07:15 AM to 08:15 AM		0	1	3	3	0	0	1	39	2	0	0	4	0	2	0	0	3	97	9	0	
Heavy Vehicle % (PHV)		0.0%	1.2%	7.7%	3.3%	3.3%	0.0%	2.3%	3.5%	6.9%	3.5%	0.0%	4.4%	0.0%	4.9%	3.9%	0.0%	11.1%	5.1%	10.6%	5.4%	
<b>INT. PEAK HR (HV ONLY)</b>		8					47					7					131					
07:30 AM to 08:30 AM		0	3	3	2	0	0	1	46	0	0	0	3	0	4	0	0	5	119	7	0	
Heavy Vehicle % (PHV)		0.0%	3.3%	7.5%	2.4%	3.7%	0.0%	2.2%	3.7%	0.0%	3.6%	0.0%	3.3%	0.0%	10.5%	4.6%	0.0%	16.1%	6.3%	7.8%	6.5%	
BICYCLES	Direction: Roadway: Movement:	Southbound					Westbound					Northbound					Eastbound					
ALL VEHICLES	Direction: Roadway: Movement:	Beech Tree Road					River Road (MD 190)					Nevis Road					River Road (MD 190)					
		U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	
		U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	
06:30 AM to 06:45 AM		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
06:45 AM to 07:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:00 AM to 07:15 AM		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:15 AM to 07:30 AM		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
07:30 AM to 07:45 AM		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:45 AM to 08:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:00 AM to 08:15 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:15 AM to 08:30 AM		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
08:30 AM to 08:45 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:45 AM to 09:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:00 AM to 09:15 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:15 AM to 09:30 AM		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:30 AM to 09:45 AM																						
09:45 AM to 10:00 AM																						
10:00 AM to 10:15 AM																						
10:15 AM to 10:30 AM																						
10:30 AM to 10:45 AM																						
10:45 AM to 11:00 AM																						
11:00 AM to 11:15 AM																						
11:15 AM to 11:30 AM																						
<b>USER-DEFINED PEAK HR</b>		1					1					0					0					
07:15 AM to 08:15 AM		0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
<b>INT. PEAK HR (BIKES)</b>		2					1					0					0					
06:30 AM to 07:30 AM		0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	

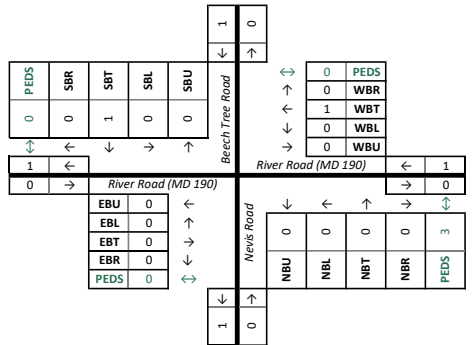
**VEHICLE PEAK HOUR VOLS AND PHF: User-Defined (07:15 AM-08:15 AM)**



**HEAVY VEH PEAK HOUR VOLS AND PHF: User-Defined (07:15 AM-08:15 AM)**



**PED AND BIKE PEAK HOUR VOLUMES: User-Defined (07:15 AM-08:15 AM)**



**DATA COLLECTION NOTES:**

**Gorove/Slade Associates - Multimodal Turning Movement Count Report**

Project Name : Holton Arms School Expansion  
 Project # : 2009-005  
 Location : Montgomery County, MD  
 Data Source : Gorove/Slade Associates, Inc.

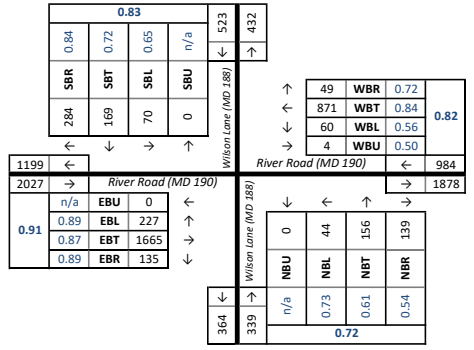
Analysis Period : STUDY PERIOD  
 Date of Counts : Tuesday, September 9, 2025  
 Weather : Partly Cloudy

06:30 AM to 09:30 AM

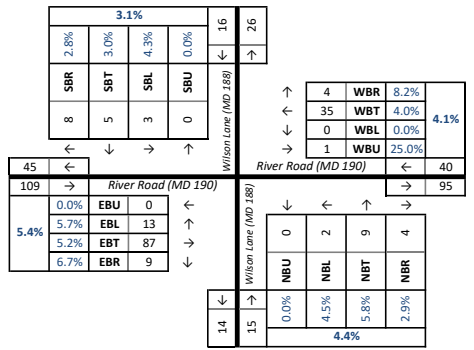
Volumes Displayed as: 3. User-Defined  
 Intersection Peak Hour (all vehicles): 07:30 AM to 08:30 AM  
 System Peak Hour (all vehicles): 07:30 AM to 08:30 AM  
 User-Defined Peak Hour: 07:15 AM to 08:15 AM

Intersection:		1. Wilson Lane (MD 188) & River Road (MD 190)																				
ALL VEHICLES	Direction: Roadway: Movement:	Southbound					Westbound					Northbound					Eastbound					
		Wilson Lane (MD 188)					River Road (MD 190)					Wilson Lane (MD 188)					River Road (MD 190)					
		U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	
06:30 AM to 06:45 AM		0	5	13	23	0	1	0	98	2	0	0	1	3	1	0	0	13	303	8	0	
06:45 AM to 07:00 AM		0	3	17	24	0	0	2	87	2	0	0	5	6	3	0	0	24	362	33	0	
07:00 AM to 07:15 AM		0	11	18	46	0	0	4	174	3	0	0	8	14	8	0	0	15	456	39	1	
07:15 AM to 07:30 AM		0	9	24	67	0	1	4	173	5	0	0	9	19	29	0	0	43	476	38	0	
07:30 AM to 07:45 AM		0	11	40	85	0	2	15	182	15	0	0	15	38	64	0	0	60	428	38	2	
07:45 AM to 08:00 AM		0	23	59	48	0	0	27	256	17	0	0	8	35	23	0	0	60	337	35	0	
08:00 AM to 08:15 AM		0	27	46	84	0	1	14	260	12	0	0	12	64	23	0	0	64	424	24	0	
08:15 AM to 08:30 AM		0	31	18	81	0	1	5	256	7	0	0	18	23	17	0	0	66	455	24	0	
08:30 AM to 08:45 AM		0	13	57	59	0	0	3	227	11	0	0	11	26	8	0	0	80	246	20	2	
08:45 AM to 09:00 AM		0	9	50	51	0	0	5	232	8	0	0	18	30	9	0	0	71	280	20	1	
09:00 AM to 09:15 AM		0	13	57	66	0	1	4	212	4	0	0	11	15	11	0	0	43	307	20	0	
09:15 AM to 09:30 AM		0	17	50	59	0	0	4	196	4	0	0	22	20	8	0	0	44	285	12	1	
09:30 AM to 09:45 AM																						
09:45 AM to 10:00 AM																						
10:00 AM to 10:15 AM																						
10:15 AM to 10:30 AM																						
10:30 AM to 10:45 AM																						
10:45 AM to 11:00 AM																						
11:00 AM to 11:15 AM																						
11:15 AM to 11:30 AM																						
<b>USER-DEFINED PEAK HR</b>		523					984					339					2027					
07:15 AM to 08:15 AM		0	70	169	284	0	4	60	871	49	0	0	44	156	139	0	0	227	1665	135	2	
<b>Peak Hour</b>		Overall	U	Left	Thru	Right	SB	U	Left	Thru	Right	WB	U	Left	Thru	Right	NB	U	Left	Thru	Right	EB
<b>Factor (PHF)</b>		0.92	n/a	0.65	0.72	0.84	0.83	0.50	0.56	0.84	0.72	0.82	n/a	0.73	0.61	0.54	0.72	n/a	0.89	0.87	0.89	0.91
HEAVY VEHICLES (FHWA 4+)	Direction: Roadway: Movement:	Southbound					Westbound					Northbound					Eastbound					
		Wilson Lane (MD 188)					River Road (MD 190)					Wilson Lane (MD 188)					River Road (MD 190)					
		U	Left	Thru	Right		U	Left	Thru	Right		U	Left	Thru	Right		U	Left	Thru	Right		
06:30 AM to 06:45 AM		0	1	1	0	0	0	5	0	0	0	0	0	0	0	0	0	0	19	0	0	
06:45 AM to 07:00 AM		0	0	0	1	0	0	0	1	0	0	0	2	1	0	0	0	1	31	0	0	
07:00 AM to 07:15 AM		0	0	0	3	0	0	0	4	0	0	0	0	2	0	0	0	0	24	0	0	
07:15 AM to 07:30 AM		0	0	1	1	0	0	0	10	0	0	0	0	1	1	0	0	3	16	2	0	
07:30 AM to 07:45 AM		0	1	1	3	1	0	3	0	0	0	1	2	0	0	0	0	3	26	3	0	
07:45 AM to 08:00 AM		0	0	3	3	0	0	0	10	4	0	0	0	2	2	0	0	2	22	3	0	
08:00 AM to 08:15 AM		0	2	0	1	0	0	0	12	0	0	0	1	4	1	0	0	5	23	1	1	
08:15 AM to 08:30 AM		0	1	0	2	0	1	0	12	0	0	0	2	0	2	0	0	3	33	1	1	
08:30 AM to 08:45 AM		0	0	2	3	0	0	0	8	1	0	0	0	1	0	0	0	2	11	3	0	
08:45 AM to 09:00 AM		0	0	0	1	0	0	0	16	0	0	0	1	0	0	0	0	1	18	1	1	
09:00 AM to 09:15 AM		0	1	2	3	0	0	1	21	0	0	0	0	0	1	0	0	0	17	3	0	
09:15 AM to 09:30 AM		0	2	2	2	0	0	0	18	1	0	0	4	2	0	0	0	1	14	2	0	
09:30 AM to 09:45 AM																						
09:45 AM to 10:00 AM																						
10:00 AM to 10:15 AM																						
10:15 AM to 10:30 AM																						
10:30 AM to 10:45 AM																						
10:45 AM to 11:00 AM																						
11:00 AM to 11:15 AM																						
11:15 AM to 11:30 AM																						
<b>USER-DEFINED PEAK HR</b>		16					40					15					109					
07:15 AM to 08:15 AM		0	3	5	8		1	0	35	4		0	2	9	4		0	13	87	9		
<b>Heavy Vehicle % (PHV)</b>		0.0%	4.3%	3.0%	2.8%	3.1%	25.0%	0.0%	4.0%	8.2%	4.1%	0.0%	4.5%	5.8%	2.9%	4.4%	0.0%	5.7%	5.2%	6.7%	5.4%	
INT. PEAK HR (HV ONLY)	Direction: Roadway: Movement:	Southbound					Westbound					Northbound					Eastbound					
		Wilson Lane (MD 188)					River Road (MD 190)					Wilson Lane (MD 188)					River Road (MD 190)					
		U	Left	Thru	Right		U	Left	Thru	Right		U	Left	Thru	Right		U	Left	Thru	Right		
07:30 AM to 08:30 AM		0	4	4	9	1	1	37	4		0	4	8	5		0	13	104	8			
<b>Heavy Vehicle % (PHV)</b>		0.0%	4.3%	2.5%	3.0%	3.1%	25.0%	1.6%	3.9%	7.8%	4.0%	0.0%	7.5%	5.0%	3.9%	5.0%	0.0%	5.2%	6.3%	6.6%	6.2%	
BICYCLES	Direction: Roadway: Movement:	Southbound					Westbound					Northbound					Eastbound					
		Wilson Lane (MD 188)					River Road (MD 190)					Wilson Lane (MD 188)					River Road (MD 190)					
		U	Left	Thru	Right		U	Left	Thru	Right		U	Left	Thru	Right		U	Left	Thru	Right		
06:30 AM to 06:45 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
06:45 AM to 07:00 AM		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:00 AM to 07:15 AM		0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
07:15 AM to 07:30 AM		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
07:30 AM to 07:45 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:45 AM to 08:00 AM		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:00 AM to 08:15 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:15 AM to 08:30 AM		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:30 AM to 08:45 AM		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:45 AM to 09:00 AM		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
09:00 AM to 09:15 AM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:15 AM to 09:30 AM		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:30 AM to 09:45 AM																						
09:45 AM to 10:00 AM																						
10:00 AM to 10:15 AM																						
10:15 AM to 10:30 AM																						
10:30 AM to 10:45 AM																						
10:45 AM to 11:00 AM																						
11:00 AM to 11:15 AM																						
11:15 AM to 11:30 AM																						
<b>USER-DEFINED PEAK HR</b>		1					0					1					0					
07:15 AM to 08:15 AM		0	0	1	0		0	0	0	0		0	0	1	0		0	0	0	0		
<b>INT. PEAK HR (BIKES)</b>		2					1					1					0					
06:30 AM to 07:30 AM		0	0	2	0		0	0	1	0		0	0	1	0		0	0	0	0		

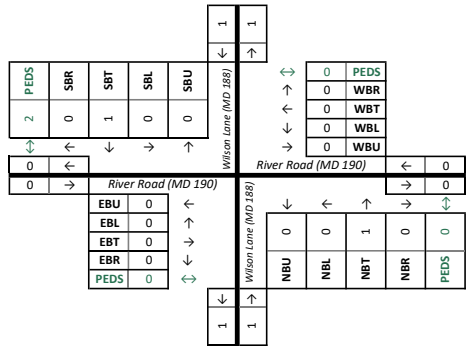
**VEHICLE PEAK HOUR VOLS AND PHF: User-Defined (07:15 AM-08:15 AM)**



**HEAVY VEH PEAK HOUR VOLS AND PHF: User-Defined (07:15 AM-08:15 AM)**



**PED AND BIKE PEAK HOUR VOLUMES: User-Defined (07:15 AM-08:15 AM)**



**DATA COLLECTION NOTES:**

**Gorove/Slade Associates - Multimodal Turning Movement Count Report**

Project Name : Holton Arms School Expansion  
 Project # : 2009-005  
 Location : Montgomery County, MD  
 Data Source : Gorove/Slade Associates, Inc.

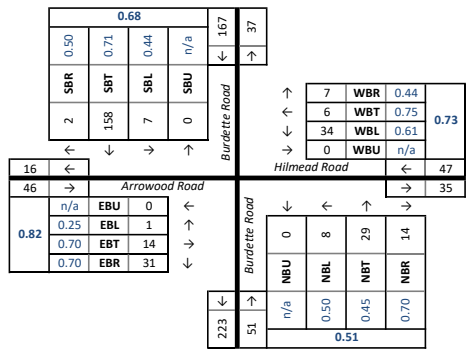
Analysis Period : STUDY PERIOD  
 Date of Counts : Tuesday, September 9, 2025  
 Weather : Partly Cloudy

06:30 AM to 09:30 AM

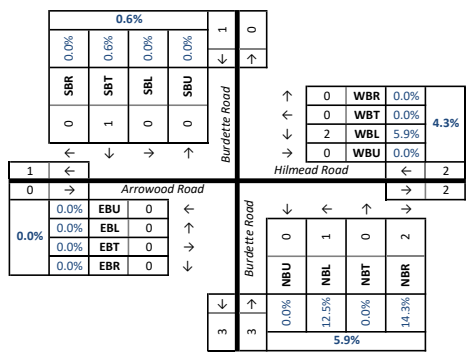
Volumes Displayed as: 3. User-Defined  
 Intersection Peak Hour (all vehicles): 07:30 AM to 08:30 AM  
 System Peak Hour (all vehicles): 07:30 AM to 08:30 AM  
 User-Defined Peak Hour: 07:15 AM to 08:15 AM

Intersection: 1. Burdette Road & Hilmead Road/Arrowood Road		Southbound					Westbound					Northbound					Eastbound										
ALL VEHICLES	Direction: Burdette Road Movement:	Burdette Road					Hilmead Road					Burdette Road					Arrowood Road										
		U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds						
06:30 AM to 06:45 AM		0	1	10	1	0	0	2	0	0	0	0	1	4	1	0	0	0	1	5	0						
06:45 AM to 07:00 AM		0	0	8	0	1	0	2	0	0	0	0	1	2	1	0	0	0	1	3	0						
07:00 AM to 07:15 AM		0	1	10	0	0	0	0	0	0	0	0	1	3	1	3	0	1	1	5	0						
07:15 AM to 07:30 AM		0	0	21	0	0	0	5	2	0	0	0	2	1	1	5	0	0	5	3	0						
07:30 AM to 07:45 AM		0	3	39	1	0	0	14	1	1	0	0	1	3	3	3	0	0	2	11	0						
07:45 AM to 08:00 AM		0	0	42	0	0	0	7	2	2	0	0	1	9	5	0	0	0	2	9	0						
08:00 AM to 08:15 AM		0	4	56	1	0	0	8	1	4	0	0	4	16	5	1	0	1	5	8	0						
08:15 AM to 08:30 AM		0	2	38	1	0	0	6	3	0	0	0	3	11	4	2	0	0	1	6	0						
08:30 AM to 08:45 AM		0	0	49	1	0	0	5	2	1	0	0	1	5	3	0	0	0	1	5	0						
08:45 AM to 09:00 AM		0	3	35	1	0	0	5	1	1	0	0	4	4	3	1	0	0	1	3	0						
09:00 AM to 09:15 AM		0	1	67	1	0	0	2	3	2	0	0	7	4	3	3	0	1	3	10	0						
09:15 AM to 09:30 AM		0	0	76	1	1	0	3	0	2	0	0	4	11	3	1	0	1	1	3	0						
09:30 AM to 09:45 AM																											
09:45 AM to 10:00 AM																											
10:00 AM to 10:15 AM																											
10:15 AM to 10:30 AM																											
10:30 AM to 10:45 AM																											
10:45 AM to 11:00 AM																											
11:00 AM to 11:15 AM																											
11:15 AM to 11:30 AM																											
<b>USER-DEFINED PEAK HR</b>		167					47					51					9					46					
07:15 AM to 08:15 AM		0	7	158	2	0	0	34	6	7	0	0	8	29	14	0	0	1	14	31	0	0	1	14	31	0	
Peak Hour Overall		U	Left	Thru	Right	SB	U	Left	Thru	Right	WB	U	Left	Thru	Right	NB	U	Left	Thru	Right	EB	U	Left	Thru	Right	EB	
Factor (PHF)		0.69	n/a	0.44	0.71	0.50	0.68	n/a	0.61	0.75	0.44	0.73	n/a	0.50	0.45	0.70	0.51	n/a	0.25	0.70	0.70	0.82	n/a	0.25	0.70	0.70	0.82

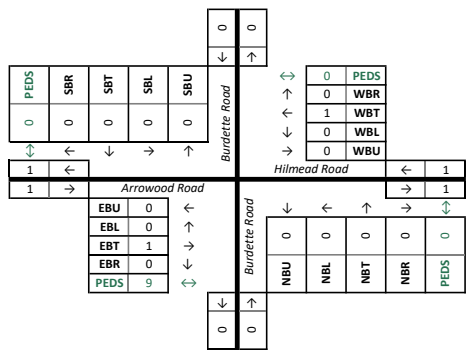
VEHICLE PEAK HOUR VOLS AND PHF: User-Defined (07:15 AM-08:15 AM)



HEAVY VEH PEAK HOUR VOLS AND PHF: User-Defined (07:15 AM-08:15 AM)



PED AND BIKE PEAK HOUR VOLUMES: User-Defined (07:15 AM-08:15 AM)



DATA COLLECTION NOTES:



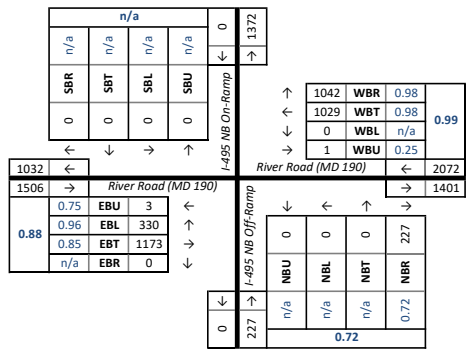
**Gorove/Slade Associates - Multimodal Turning Movement Count Report**

Project Name : Holton Arms School Expansion      Analysis Period : STUDY PERIOD      02:00 PM to 07:00 PM  
 Project # : 2009-005      Date of Counts : Tuesday, September 9, 2025  
 Location : Montgomery County, MD      Weather : Partly Cloudy  
 Data Source : Gorove/Slade Associates, Inc.

Volumes Displayed as: 2. System Peak (vehicle)  
 Intersection Peak Hour (all vehicles): 03:00 PM to 04:00 PM  
 System Peak Hour (all vehicles): 03:15 PM to 04:15 PM  
 User-Defined Peak Hour: 03:00 PM to 04:00 PM

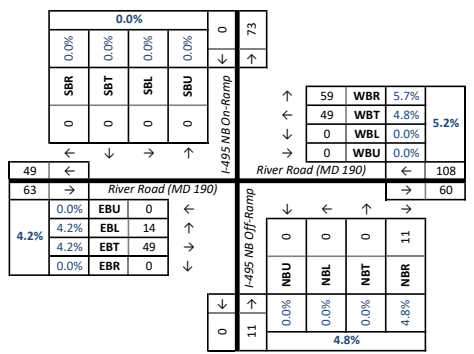
Intersection: 1. I-495 NB On-Ramp/I-495 NB Off-Ramp & River Road (MD 190)		Southbound					Westbound					Northbound					Eastbound					
ALL VEHICLES	Direction: Roadway: Movement:	I-495 NB On-Ramp					River Road (MD 190)					I-495 NB Off-Ramp					River Road (MD 190)					
		U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	
02:00 PM to 02:15 PM		0	0	0	0	0	0	0	136	203	0	0	0	0	50	0	1	88	199	0	0	
02:15 PM to 02:30 PM		0	0	0	0	0	0	0	205	208	0	0	0	0	66	0	1	81	260	0	0	
02:30 PM to 02:45 PM		0	0	0	0	0	0	0	212	220	0	0	0	0	65	0	1	83	306	0	0	
02:45 PM to 03:00 PM		0	0	0	0	0	0	0	221	232	0	0	0	0	66	0	1	91	288	0	0	
03:00 PM to 03:15 PM		0	0	0	0	0	0	0	227	234	0	0	0	0	82	0	1	96	280	0	0	
03:15 PM to 03:30 PM		0	0	0	0	0	0	0	263	254	0	0	0	0	79	0	1	86	343	0	0	
03:30 PM to 03:45 PM		0	0	0	0	0	1	0	259	262	0	0	0	0	61	0	1	80	308	0	0	
03:45 PM to 04:00 PM		0	0	0	0	0	0	0	259	259	0	0	0	0	52	0	0	79	274	0	0	
04:00 PM to 04:15 PM		0	0	0	0	0	0	0	248	267	0	0	0	0	35	0	1	85	248	0	0	
04:15 PM to 04:30 PM		0	0	0	0	0	0	0	260	232	0	0	0	0	59	0	2	66	205	0	0	
04:30 PM to 04:45 PM		0	0	0	0	0	0	0	241	250	0	0	0	0	71	0	1	91	239	0	0	
04:45 PM to 05:00 PM		0	0	0	0	0	0	0	280	239	0	0	0	0	61	0	1	85	256	0	0	
05:00 PM to 05:15 PM		0	0	0	0	0	0	0	274	247	0	0	0	0	64	0	1	82	191	0	0	
05:15 PM to 05:30 PM		0	0	0	0	0	0	0	280	241	0	0	0	0	69	0	2	41	212	0	0	
05:30 PM to 05:45 PM		0	0	0	0	0	0	0	294	188	0	0	0	0	107	0	2	63	224	0	0	
05:45 PM to 06:00 PM		0	0	0	0	0	0	0	281	161	0	0	0	0	133	0	3	41	226	0	0	
06:00 PM to 06:15 PM		0	0	0	0	0	0	0	309	195	0	0	0	0	121	0	2	66	254	0	0	
06:15 PM to 06:30 PM		0	0	0	0	0	0	0	311	233	0	0	0	0	96	0	0	84	210	0	0	
06:30 PM to 06:45 PM		0	0	0	0	0	0	0	244	188	0	0	0	0	94	0	1	68	181	0	0	
06:45 PM to 07:00 PM		0	0	0	0	0	0	0	191	153	0	0	0	0	90	0	0	70	203	0	0	
<b>SYSTEM PEAK HR (VEH.)</b>		0					2072					227					1506					
03:15 PM to 04:15 PM		0	0	0	0	0	1	0	1029	1042	0	0	0	0	0	227	0	3	330	1173	0	0
<b>Peak Hour Factor (PHF)</b>		0.93					0.99					0.72					0.88					

**VEHICLE PEAK HOUR VOLS AND PHF: System Peak (vehicle)**



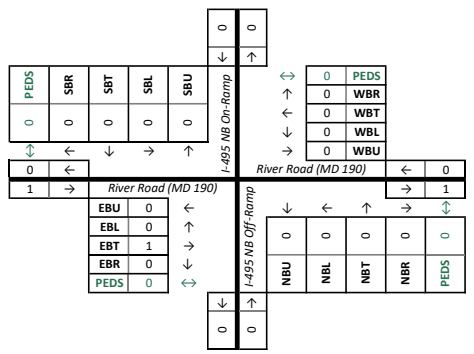
HEAVY VEHICLES (FHWA 4+)		Southbound					Westbound					Northbound					Eastbound					
ALL VEHICLES	Direction: Roadway: Movement:	I-495 NB On-Ramp					River Road (MD 190)					I-495 NB Off-Ramp					River Road (MD 190)					
		U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	
02:00 PM to 02:15 PM		0	0	0	0	0	0	0	6	14	0	0	0	0	1	0	0	13	10	0	0	
02:15 PM to 02:30 PM		0	0	0	0	0	0	0	12	14	0	0	0	0	2	0	0	2	15	0	0	
02:30 PM to 02:45 PM		0	0	0	0	0	0	0	11	7	0	0	0	0	2	0	0	11	16	0	0	
02:45 PM to 03:00 PM		0	0	0	0	0	0	0	14	14	0	0	0	0	2	0	0	10	15	0	0	
03:00 PM to 03:15 PM		0	0	0	0	0	0	0	8	19	0	0	0	0	7	0	0	6	13	0	0	
03:15 PM to 03:30 PM		0	0	0	0	0	0	0	16	18	0	0	0	0	4	0	0	4	13	0	0	
03:30 PM to 03:45 PM		0	0	0	0	0	0	0	6	8	0	0	0	0	2	0	0	3	14	0	0	
03:45 PM to 04:00 PM		0	0	0	0	0	0	0	8	14	0	0	0	0	3	0	0	6	13	0	0	
04:00 PM to 04:15 PM		0	0	0	0	0	0	0	19	19	0	0	0	0	2	0	1	1	9	0	0	
04:15 PM to 04:30 PM		0	0	0	0	0	0	0	14	15	0	0	0	0	1	0	0	2	9	0	0	
04:30 PM to 04:45 PM		0	0	0	0	0	0	0	14	19	0	0	0	0	2	0	0	4	2	0	0	
04:45 PM to 05:00 PM		0	0	0	0	0	0	0	15	10	0	0	0	0	0	0	0	2	2	0	0	
05:00 PM to 05:15 PM		0	0	0	0	0	0	0	7	7	0	0	0	0	2	0	0	2	2	0	0	
05:15 PM to 05:30 PM		0	0	0	0	0	0	0	10	10	0	0	0	0	0	0	0	3	4	0	0	
05:30 PM to 05:45 PM		0	0	0	0	0	0	0	5	4	0	0	0	0	2	0	0	1	1	0	0	
05:45 PM to 06:00 PM		0	0	0	0	0	0	0	6	2	0	0	0	0	2	0	0	0	2	0	0	
06:00 PM to 06:15 PM		0	0	0	0	0	0	0	4	6	0	0	0	0	1	0	1	3	0	0		
06:15 PM to 06:30 PM		0	0	0	0	0	0	0	2	7	0	0	0	0	3	0	0	2	8	0	0	
06:30 PM to 06:45 PM		0	0	0	0	0	0	0	5	5	0	0	0	0	2	0	0	1	2	0	0	
06:45 PM to 07:00 PM		0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	3	1	0	0	
<b>SYSTEM PEAK HR (VEH.)</b>		0					108					11					63					
03:15 PM to 04:15 PM		0	0	0	0	0	0	0	49	59	0	0	0	0	0	11	0	0	14	49	0	0
<b>Heavy Vehicle % (PHV)</b>		0.0%					0.0%					0.0%					4.2%					

**HEAVY VEH PEAK HOUR VOLS AND PHF: System Peak (vehicle)**



BICYCLES		Southbound					Westbound					Northbound					Eastbound					
ALL VEHICLES	Direction: Roadway: Movement:	I-495 NB On-Ramp					River Road (MD 190)					I-495 NB Off-Ramp					River Road (MD 190)					
		U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	
02:00 PM to 02:15 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:15 PM to 02:30 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:30 PM to 02:45 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:45 PM to 03:00 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00 PM to 03:15 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:15 PM to 03:30 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:30 PM to 03:45 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:45 PM to 04:00 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:00 PM to 04:15 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
04:15 PM to 04:30 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
04:30 PM to 04:45 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:45 PM to 05:00 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:00 PM to 05:15 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:15 PM to 05:30 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:30 PM to 05:45 PM		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
05:45 PM to 06:00 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
06:00 PM to 06:15 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
06:15 PM to 06:30 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
06:30 PM to 06:45 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
06:45 PM to 07:00 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>SYSTEM PEAK HR (VEH.)</b>		0					0					0					1					
03:15 PM to 04:15 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<b>INT. PEAK HR (BIKES)</b>		0					0					0					3					
03:30 PM to 04:30 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0

**PED AND BIKE PEAK HOUR VOLUMES: System Peak (vehicle)**



**Gorove/Slade Associates - Multimodal Turning Movement Count Report**

Project Name : Holton Arms School Expansion  
 Project # : 2009-005  
 Location : Montgomery County, MD  
 Data Source : Gorove/Slade Associates, Inc.

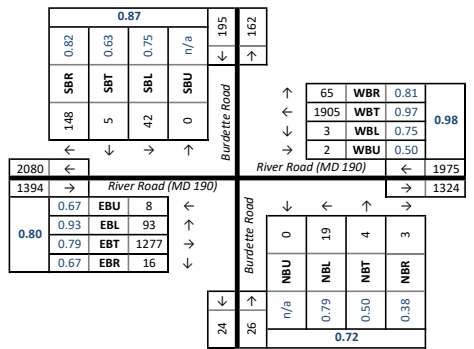
Analysis Period : STUDY PERIOD  
 Date of Counts : Tuesday, September 9, 2025  
 Weather : Partly Cloudy

02:00 PM to 07:00 PM

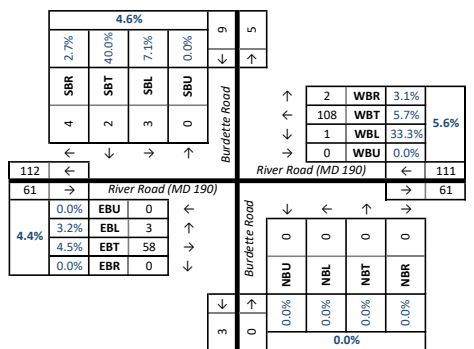
Volumes Displayed as: 2. System Peak (vehicle)  
 Intersection Peak Hour (all vehicles): 03:00 PM to 04:00 PM  
 System Peak Hour (all vehicles): 03:15 PM to 04:15 PM  
 User-Defined Peak Hour: 03:00 PM to 04:00 PM

Intersection: 1. Burdette Road & River Road (MD 190)		Southbound					Westbound					Northbound					Eastbound									
ALL VEHICLES	Direction: Burdette Road Movement:	Burdette Road					River Road (MD 190)					Burdette Road					River Road (MD 190)									
		U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds					
02:00 PM to 02:15 PM		0	16	0	29	0	0	0	314	5	0	0	0	0	1	0	2	19	231	2	0					
02:15 PM to 02:30 PM		0	5	0	28	1	0	1	383	5	0	0	4	1	0	0	0	29	282	5	0					
02:30 PM to 02:45 PM		0	5	2	35	0	0	3	392	14	1	0	4	1	6	0	2	21	341	5	0					
02:45 PM to 03:00 PM		0	22	1	20	0	0	0	432	10	0	0	7	0	0	0	0	31	307	7	0					
03:00 PM to 03:15 PM		0	8	0	41	0	0	1	416	9	0	0	4	1	2	0	4	31	337	5	0					
03:15 PM to 03:30 PM		0	9	2	45	0	1	1	446	19	0	0	6	1	2	0	2	25	402	4	0					
03:30 PM to 03:45 PM		0	14	1	31	0	1	1	487	14	0	0	4	1	0	0	2	25	304	6	0					
03:45 PM to 04:00 PM		0	13	0	39	0	0	0	480	20	2	0	3	0	1	0	3	25	323	0	0					
04:00 PM to 04:15 PM		0	6	2	33	0	0	1	492	12	2	0	6	2	0	0	1	18	248	6	0					
04:15 PM to 04:30 PM		0	15	0	46	0	0	2	447	14	1	0	6	1	2	1	1	20	233	6	0					
04:30 PM to 04:45 PM		0	17	2	37	0	0	2	463	5	1	0	3	0	0	0	7	24	282	3	0					
04:45 PM to 05:00 PM		0	17	2	43	0	0	1	429	9	1	0	7	3	0	0	6	25	290	6	0					
05:00 PM to 05:15 PM		0	27	2	53	0	1	1	471	14	1	0	8	2	2	0	9	17	223	5	0					
05:15 PM to 05:30 PM		0	25	1	49	0	0	0	453	7	0	0	5	2	0	0	6	19	259	2	0					
05:30 PM to 05:45 PM		0	20	2	59	0	1	0	444	11	0	0	6	0	1	0	5	17	279	7	0					
05:45 PM to 06:00 PM		0	37	0	87	0	0	0	328	6	0	0	7	1	0	0	9	27	334	6	0					
06:00 PM to 06:15 PM		0	22	6	73	0	1	0	386	6	2	0	7	2	0	0	12	31	319	8	0					
06:15 PM to 06:30 PM		0	12	0	34	0	2	0	485	9	0	0	1	2	3	0	6	21	281	5	0					
06:30 PM to 06:45 PM		0	10	1	34	0	0	0	394	12	0	0	5	1	0	0	1	24	241	5	0					
06:45 PM to 07:00 PM		0	1	2	22	0	0	0	296	5	2	0	6	0	1	0	1	26	262	5	0					
<b>SYSTEM PEAK HR (VEH.)</b>		195					1975					26					1394									
03:15 PM to 04:15 PM		0	42	5	148	0	2	3	1905	65	4	0	19	4	3	0	8	93	1277	16	0					
<b>Peak Hour</b>		Overall					SB					WB					NB					EB				
<b>Factor (PHF)</b>		0.93					0.87					0.81					0.72					0.80				

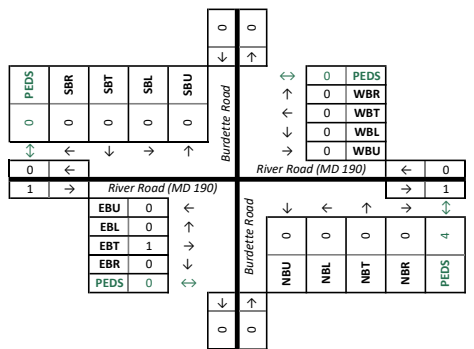
**VEHICLE PEAK HOUR VOLS AND PHF: System Peak (vehicle)**



**HEAVY VEH PEAK HOUR VOLS AND PHF: System Peak (vehicle)**



**PED AND BIKE PEAK HOUR VOLUMES: System Peak (vehicle)**



**DATA COLLECTION NOTES :**



**Gorove/Slade Associates - Multimodal Turning Movement Count Report**

Project Name : Holton Arms School Expansion  
 Project # : 2009-005  
 Location : Montgomery County, MD  
 Data Source : Gorove/Slade Associates, Inc.

Analysis Period : STUDY PERIOD  
 Date of Counts : Tuesday, September 9, 2025  
 Weather : Partly Cloudy

02:00 PM to 07:00 PM

Volumes Displayed as: 2. System Peak (vehicle)  
 Intersection Peak Hour (all vehicles): 03:00 PM to 04:00 PM  
 System Peak Hour (all vehicles): 03:15 PM to 04:15 PM  
 User-Defined Peak Hour: 03:00 PM to 04:00 PM

Intersection: 1. Beech Tree Road/Nevis Road & River Road (MD 190)		Southbound					Westbound					Northbound					Eastbound				
ALL VEHICLES	Direction: Roadway: Movement:	Beech Tree Road					River Road (MD 190)					Nevis Road					River Road (MD 190)				
		U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds
02:00 PM to 02:15 PM		0	8	1	13	0	0	4	295	6	0	0	15	2	6	0	1	6	227	12	0
02:15 PM to 02:30 PM		0	4	0	9	0	0	5	371	8	1	0	6	1	3	0	0	12	255	14	0
02:30 PM to 02:45 PM		0	5	3	13	0	0	17	393	11	1	0	14	1	7	0	0	20	301	18	0
02:45 PM to 03:00 PM		0	4	10	19	0	0	11	434	7	0	0	14	0	8	0	0	4	274	30	0
03:00 PM to 03:15 PM		0	3	4	12	0	0	6	381	13	0	0	42	13	10	0	1	6	308	13	0
03:15 PM to 03:30 PM		0	5	3	9	0	0	7	443	13	0	0	21	4	6	0	0	19	378	19	0
03:30 PM to 03:45 PM		0	8	0	15	0	0	4	438	11	0	0	20	1	8	0	1	14	311	16	0
03:45 PM to 04:00 PM		0	9	4	27	0	1	7	408	13	1	0	17	5	5	0	0	19	339	12	0
04:00 PM to 04:15 PM		0	15	0	19	0	1	8	446	12	0	0	19	2	6	0	0	9	243	17	0
04:15 PM to 04:30 PM		0	11	4	20	0	1	5	412	12	0	0	20	2	4	0	0	1	240	4	0
04:30 PM to 04:45 PM		0	8	0	16	0	2	7	449	6	0	0	25	3	12	0	0	8	269	9	0
04:45 PM to 05:00 PM		0	10	4	12	0	1	9	406	8	0	0	14	3	6	0	0	16	292	6	0
05:00 PM to 05:15 PM		0	8	1	13	0	0	9	456	7	0	0	20	0	6	0	0	7	239	3	0
05:15 PM to 05:30 PM		0	6	6	12	0	0	11	432	7	0	0	17	2	9	0	0	11	261	15	0
05:30 PM to 05:45 PM		0	20	2	18	0	1	9	408	12	0	0	15	8	6	0	0	7	285	10	0
05:45 PM to 06:00 PM		0	13	1	12	0	3	10	289	13	0	0	19	5	10	0	0	11	335	13	0
06:00 PM to 06:15 PM		0	21	4	16	0	0	13	344	16	0	0	11	5	10	0	0	16	370	8	0
06:15 PM to 06:30 PM		0	5	1	11	1	0	17	472	12	0	0	8	1	5	0	0	16	292	11	0
06:30 PM to 06:45 PM		0	11	0	18	1	0	7	364	6	1	0	5	1	2	0	0	14	242	4	0
06:45 PM to 07:00 PM		0	3	3	6	0	0	8	276	8	0	0	11	3	3	0	0	13	241	12	0

<b>SYSTEM PEAK HR (VEH.)</b>	114	1812	114	1397																	
03:15 PM to 04:15 PM	0	37	7	70	0	2	26	1735	49	1	0	77	12	25	0	1	61	1271	64	0	
Peak Hour Overall	U	Left	Thru	Right	SB	U	Left	Thru	Right	WB	U	Left	Thru	Right	NB	U	Left	Thru	Right	EB	
Factor (PHF)	0.93	n/a	0.62	0.44	0.65	0.71	0.50	0.81	0.97	0.94	0.97	n/a	0.92	0.60	0.78	0.92	0.25	0.80	0.84	0.84	0.84

HEAVY VEHICLES (FHWA 4+)		Southbound					Westbound					Northbound					Eastbound				
ALL VEHICLES	Direction: Roadway: Movement:	Beech Tree Road					River Road (MD 190)					Nevis Road					River Road (MD 190)				
		U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds
02:00 PM to 02:15 PM		0	1	1	0	0	0	0	24	1	0	0	1	1	0	0	1	1	9	1	0
02:15 PM to 02:30 PM		0	0	0	0	0	0	0	22	1	0	0	0	0	0	0	0	0	18	0	0
02:30 PM to 02:45 PM		0	1	0	0	0	0	0	16	2	0	0	2	0	0	0	1	16	0	0	
02:45 PM to 03:00 PM		0	1	0	2	0	0	0	24	0	0	0	1	0	2	0	0	2	14	2	0
03:00 PM to 03:15 PM		0	0	0	1	0	0	0	28	0	0	0	0	1	0	0	0	1	16	1	0
03:15 PM to 03:30 PM		0	0	0	0	0	0	0	27	2	0	0	2	0	0	0	0	2	14	2	0
03:30 PM to 03:45 PM		0	0	0	2	0	0	0	18	1	0	0	0	0	0	0	0	1	14	0	0
03:45 PM to 04:00 PM		0	2	0	4	0	0	2	11	1	0	0	1	1	0	0	0	2	17	1	0
04:00 PM to 04:15 PM		0	5	0	4	0	0	0	41	1	0	0	0	0	0	0	0	0	11	0	0
04:15 PM to 04:30 PM		0	2	0	0	0	0	1	26	1	0	0	1	0	0	0	0	0	9	1	0
04:30 PM to 04:45 PM		0	1	0	1	0	0	0	33	0	0	0	3	0	0	0	0	2	2	0	0
04:45 PM to 05:00 PM		0	0	0	2	0	1	1	19	1	0	0	1	0	0	0	0	0	2	1	0
05:00 PM to 05:15 PM		0	0	0	2	0	0	0	16	0	0	0	3	0	1	0	0	0	5	0	0
05:15 PM to 05:30 PM		0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	6	0	0
05:30 PM to 05:45 PM		0	0	0	0	0	0	0	7	0	0	0	1	0	0	0	0	0	2	1	0
05:45 PM to 06:00 PM		0	0	0	1	0	0	0	8	0	0	0	2	0	0	0	0	0	2	0	0
06:00 PM to 06:15 PM		0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	6	0	0
06:15 PM to 06:30 PM		0	0	0	0	0	0	0	10	0	0	0	1	0	0	0	0	2	9	0	0
06:30 PM to 06:45 PM		0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	2	0	0
06:45 PM to 07:00 PM		0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0

<b>SYSTEM PEAK HR (VEH.)</b>	17	104	4	64																
03:15 PM to 04:15 PM	0	7	0	10	0	0	2	97	5	0	0	3	1	0	0	0	5	56	3	0
Heavy Vehicle % (PHV)	0.0%	18.9%	0.0%	14.3%	14.9%	0.0%	7.7%	5.6%	10.2%	5.7%	0.0%	3.9%	8.3%	0.0%	3.5%	0.0%	8.2%	4.4%	4.7%	4.6%
<b>INT. PEAK HR (HV ONLY)</b>	17	104	4	64																
03:15 PM to 04:15 PM	0	7	0	10	0	0	2	97	5	0	0	3	1	0	0	0	5	56	3	0
Heavy Vehicle % (PHV)	0.0%	18.9%	0.0%	14.3%	14.9%	0.0%	7.7%	5.6%	10.2%	5.7%	0.0%	3.9%	8.3%	0.0%	3.5%	0.0%	8.2%	4.4%	4.7%	4.6%

BICYCLES		Southbound					Westbound					Northbound					Eastbound				
ALL VEHICLES	Direction: Roadway: Movement:	Beech Tree Road					River Road (MD 190)					Nevis Road					River Road (MD 190)				
		U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds
02:00 PM to 02:15 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM to 02:30 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM to 02:45 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM to 03:00 PM		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 PM to 03:15 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15 PM to 03:30 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30 PM to 03:45 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45 PM to 04:00 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 PM to 04:15 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0
04:15 PM to 04:30 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0
04:30 PM to 04:45 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM to 05:00 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 PM to 05:15 PM		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM to 05:30 PM		0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0
05:30 PM to 05:45 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM to 06:00 PM		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
06:00 PM to 06:15 PM		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
06:15 PM to 06:30 PM		0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	1	0	0
06:30 PM to 06:45 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:45 PM to 07:00 PM		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<b>SYSTEM PEAK HR (VEH.)</b>	0	0	0	3																
03:15 PM to 04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0
<b>INT. PEAK HR (BIKES)</b>	0	0	0	6																
03:30 PM to 04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	1	0



**Gorove/Slade Associates - Multimodal Turning Movement Count Report**

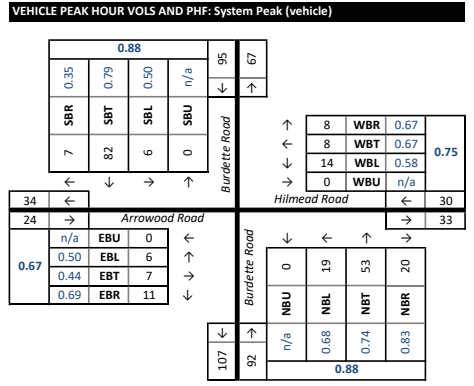
Project Name : Holton Arms School Expansion  
 Project # : 2009-005  
 Location : Montgomery County, MD  
 Data Source : Gorove/Slade Associates, Inc.

Analysis Period : STUDY PERIOD  
 Date of Counts : Tuesday, September 9, 2025  
 Weather : Partly Cloudy

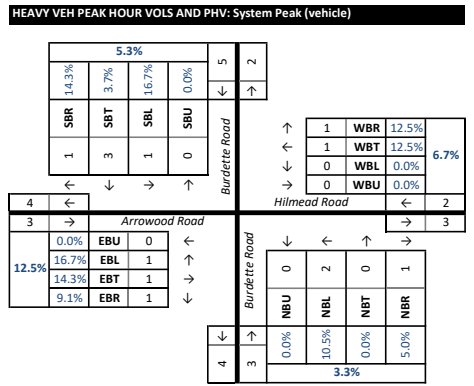
02:00 PM to 07:00 PM

Volumes Displayed as: 2. System Peak (vehicle)  
 Intersection Peak Hour (all vehicles): 05:00 PM to 06:00 PM  
 System Peak Hour (all vehicles): 03:15 PM to 04:15 PM  
 User-Defined Peak Hour: 03:00 PM to 04:00 PM

Intersection: 1. Burdette Road & Hilmead Road/Arrowood Road		Southbound					Westbound					Northbound					Eastbound				
ALL VEHICLES	Direction: Burdette Road Movement:	Burdette Road					Hilmead Road					Burdette Road					Arrowood Road				
		U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds
02:00 PM to 02:15 PM		0	1	10	0	0	0	4	1	1	0	0	1	6	7	2	0	0	2	2	0
02:15 PM to 02:30 PM		0	0	13	0	0	0	6	1	1	1	1	1	8	1	2	0	0	2	3	0
02:30 PM to 02:45 PM		0	1	10	2	0	0	3	0	0	0	0	3	4	0	0	0	0	1	0	0
02:45 PM to 03:00 PM		0	0	18	2	0	0	3	0	3	1	0	6	6	0	2	0	1	0	2	0
03:00 PM to 03:15 PM		0	2	16	0	0	0	2	1	0	0	0	1	17	3	0	0	0	2	2	1
03:15 PM to 03:30 PM		0	3	18	5	0	0	2	2	3	1	0	5	5	6	2	0	2	0	1	1
03:30 PM to 03:45 PM		0	1	22	0	0	0	6	3	1	0	0	5	17	4	1	0	1	4	2	0
03:45 PM to 04:00 PM		0	0	26	1	0	0	3	3	2	0	0	2	18	4	1	0	3	2	4	1
04:00 PM to 04:15 PM		0	2	16	1	0	0	3	0	2	0	0	7	13	6	3	0	0	1	4	0
04:15 PM to 04:30 PM		0	1	25	0	0	0	4	4	1	0	0	1	20	5	1	0	1	0	4	0
04:30 PM to 04:45 PM		0	1	35	0	0	0	6	3	0	1	0	6	20	2	1	0	1	1	2	0
04:45 PM to 05:00 PM		0	0	29	1	0	0	3	3	0	1	0	3	21	1	1	0	0	1	4	0
05:00 PM to 05:15 PM		0	1	64	0	0	0	5	0	1	0	0	3	19	2	0	0	2	3	2	0
05:15 PM to 05:30 PM		0	1	40	1	0	1	2	4	1	0	0	3	13	4	2	0	1	0	8	0
05:30 PM to 05:45 PM		0	1	78	0	1	0	6	2	0	1	0	4	15	5	0	0	0	2	3	0
05:45 PM to 06:00 PM		0	2	106	4	0	0	8	4	4	0	0	5	23	5	1	0	0	3	2	1
06:00 PM to 06:15 PM		0	7	42	2	0	0	8	3	0	0	0	2	22	4	0	0	2	2	1	0
06:15 PM to 06:30 PM		0	0	22	0	0	0	4	2	1	0	0	5	20	3	1	0	1	4	6	0
06:30 PM to 06:45 PM		0	1	26	2	0	0	4	3	0	0	0	2	14	9	0	0	3	4	4	0
06:45 PM to 07:00 PM		0	0	21	1	0	0	3	2	0	0	0	2	19	5	0	0	0	1	1	0
<b>SYSTEM PEAK HR (VEH.)</b>		95					30					92					24				
03:15 PM to 04:15 PM		0	6	82	7	0	0	14	8	8	1	0	19	53	20	7	0	6	7	11	2
<b>Peak Hour Factor (PHF)</b>		0.89					n/a					0.88					n/a				



HEAVY VEHICLES (FHWA 4+)		Southbound					Westbound					Northbound					Eastbound				
ALL VEHICLES	Direction: Burdette Road Movement:	Burdette Road					Hilmead Road					Burdette Road					Arrowood Road				
		U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds
02:00 PM to 02:15 PM		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM to 02:30 PM		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
02:30 PM to 02:45 PM		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM to 03:00 PM		0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
03:00 PM to 03:15 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15 PM to 03:30 PM		0	0	1	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0
03:30 PM to 03:45 PM		0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
03:45 PM to 04:00 PM		0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0
04:00 PM to 04:15 PM		0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
04:15 PM to 04:30 PM		0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
04:30 PM to 04:45 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM to 05:00 PM		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 PM to 05:15 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM to 05:30 PM		0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
05:30 PM to 05:45 PM		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM to 06:00 PM		0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0
06:00 PM to 06:15 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:15 PM to 06:30 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:30 PM to 06:45 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:45 PM to 07:00 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>SYSTEM PEAK HR (VEH.)</b>		5					2					3					3				
03:15 PM to 04:15 PM		0	1	3	1	0	0	0	1	1	0	0	2	0	1	0	0	1	1	1	1
<b>Heavy Vehicle % (PHV)</b>		0.0%					0.0%					10.5%					0.0%				
<b>INT. PEAK HR (HV ONLY)</b>		5					2					3					3				
03:15 PM to 04:15 PM		0	1	3	1	0	0	0	1	1	0	0	2	0	1	0	0	1	1	1	1
<b>Heavy Vehicle % (PHV)</b>		0.0%					0.0%					10.5%					0.0%				



BICYCLES		Southbound					Westbound					Northbound					Eastbound				
ALL VEHICLES	Direction: Burdette Road Movement:	Burdette Road					Hilmead Road					Burdette Road					Arrowood Road				
		U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds
02:00 PM to 02:15 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM to 02:30 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM to 02:45 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM to 03:00 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 PM to 03:15 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15 PM to 03:30 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30 PM to 03:45 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45 PM to 04:00 PM		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
04:00 PM to 04:15 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM to 04:30 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM to 04:45 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM to 05:00 PM		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
05:00 PM to 05:15 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:15 PM to 05:30 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM to 05:45 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM to 06:00 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00 PM to 06:15 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:15 PM to 06:30 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:30 PM to 06:45 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:45 PM to 07:00 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>SYSTEM PEAK HR (VEH.)</b>		0					1					0					0				
03:15 PM to 04:15 PM		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<b>INT. PEAK HR (BIKES)</b>		0					1					0					1				
04:15 PM to 05:15 PM		0	0	0	0	0	0	0	1	0	0										