Neelsville Middle School

Montgomery County, Maryland October 25, 2021

Local Area Transportation Review

Prepared for:

Karen Gioconda, NCIDQ LEED AP ID+C On behalf of Montgomery County Public Schools (MCPS) Perkins Eastman One Thomas Circle NW, Suite 200 Washington, DC 20005 (540) 239-9090 k.gioconda@perkinseastman.com



TABLE OF CONTENTS

EXECUTIV	E SUMMARY	1
INTRODU	CTION AND SUMMARY OF FINDINGS	2
MOTOR V	EHICLE ADEQUACY	5
Figure 1	Site Location Map	6
Figure 2	Aerial Photo	7
Figure 3	Existing Lane Use	
Figure 4	Existing Peak Hour Traffic Volumes	
Figure 5	Adjusted Existing Peak Hour Traffic Volumes	
Table 1	Trip Generation Rate for Pipeline Development	11
Table 2	Trip Generation for Pipeline Developments	11
Figure 6	Trip Assignment for Seneca Meadows Corporate Center	12
Figure 7	Trip Assignment for Montgomery Community College	12
Figure 8	Combined Trip Assignment for Pipeline Developments	13
Figure 9	Background Peak Hour Traffic Volumes	13
Table 3	Trip Generation Rate for Subject Site	14
Table 4	Trip Generation and Total for Subject Site	14
Figure 10	Traffic Adjustment for Proposed Concept Plan	15
Figure 11	Trip Assignment for Subject Site	16
Figure 12	Total Peak Hour Traffic Volumes	16
Table 5	Summary of Intersection Capacity Analysis (CLV)	17
PEDESTRI	AN SYSTEM ADEQUACY	18
Table 6	Pedestrian Adequacy Scoping Requirements	18
Figure 13	Overview Map	19
Figure 14	Pedestrian Level of Comfort – Overview Map	21
Figure 15	Pedestrian Level of Comfort – Detail Photographs 1–10	22
Figure 16	Pedestrian Level of Comfort – Detail Photographs 11–20	23
Figure 17	Pedestrian Level of Comfort – Detail Photographs 21–29	24
Figure 18	Pedestrian Level of Comfort – Detail Photographs 30 – 39	25
Figure 19	Pedestrian Level of Comfort – Detail Photographs 40 –42	26
Table 7	PLOC – Photograph Descriptions	27
Figure 20	Streetlight Compliance – Overview Map	30
Figure 21	ADA Compliance – Detail Photographs 1–7	31
Figure 22	ADA Compliance – Detail Photographs 8–15	
Table 8	ADA – Photograph Descriptions	33

TABLE OF CONTENTS, Continued

BICYCLE S	YSTEM ADEQUACY	34
Table 9	Bicycle Adequacy Scoping Requirements	
Figure 23	Bicycle Adequacy – Overview Map	35
Figure 24	Bicycle Adequacy – Detail Photographs 1–9	
BUS TRAN	ISIT SYSTEM ADEQUACY	37
Figure 25	Transit Adequacy – Overview Map – Route Details	
Table 10	Transit Adequacy Scoping Requirements	
Figure 26	Transit Adequacy – Overview Map – Route Details	
VISION ZE	RO STATEMENT	41
Table 11	Vision Zero Scoping Requirements	
Figure 27	HIN Network	
	Crash (2015 – 2021 Q2) Locations	
	Speed Data Summary	
	Site Circulation and Amenities	
RESULTS,	RECOMMENDATIONS, AND CONCLUSIONS	47

APPENDICES

APPENDIX A – Scoping Documentation

- **APPENDIX B** Intersection Turning Movement Counts and Aerial Photographs
- APPENDIX C Intersection Capacity Analysis Worksheets and SimTraffic Output
- **APPENDIX D** Transit Schedules
- APPENDIX E Speed and Crash Data

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 29931, Expiration Date: 01/08/2022.



Prepared by:

Carl R. Wilson, Jr., P.E., PTOE, RSP Richard Huang, P.E., PTOE

CRW:amr (F:\2020\2020-0506_Neelsville Middle School\DOCS\REPORTS\Oct 2021\LATR.docx)

The Traffic Group, Inc. ® Traffic Engineers & Transportation Planners <u>CORPORATE OFFICE</u> 9900 Franklin Square Drive, Suite H Baltimore, Maryland 21236 410-931-6600 Fax: 410-931-6601 1-800-583-8411 www.trafficgroup.com

EXECUTIVE SUMMARY

- Neelsville Middle School is located at 11700 Neelsville Church Road in the Germantown section of Montgomery County. More generally, the property is located on the south side of the roadway, east of MD 355.
- In 2019, Neelsville Middle School served a population of 956 students. Because of the attendance area for this facility, most students arrive by bus. No walkers are assigned to the school.
- Access to the property is currently available via one full-movement driveway along Neelsville Church Road, which is used by both passenger vehicles and school buses.
- Capacity for the school is proposed to increase to 1,190 students with completion of this project.
- There are more than 50 peak hour person trips projected to be generated by the modifications to this site. Therefore, to address Local Area Transportation Review (LATR) requirements, a vehicular, pedestrian, bicycle, and transit adequacy must be addressed. In addition, a Vision Zero statement is required.
- > This project is a Mandatory Referral. Therefore, all information is provided for advisory purposes only.
- With regard to vehicular adequacy, all study intersections will exhibit acceptable levels of service in the future with the buildout of this site.

INTRODUCTION AND SUMMARY OF FINDINGS

Study Purpose

The Traffic Group, Inc. has prepared this Local Area Transportation Review (LATR) to quantify the impact the proposed expansion of Neelsville Middle School will have on the surrounding road network in the Germantown section of Montgomery County. An operational middle school is currently sited on the property, with a student population of 956. With the completion of this expansion, a total of 1,190 students will be accommodated.

Access to the property is currently available via one point along Neelsville Church Road, which operates under stop control. Upon completion of this expansion, a second point of access will be provided which will provide separation from bus and vehicular traffic. The access points are proposed to operate under stop control.

This site is being developed by Montgomery County Public Schools (MCPS) and is therefore being reviewed as a Mandatory Referral project. All findings in this document are considered advisory in nature.

Study Criteria/Methodology

This study was conducted in accordance with Montgomery County's LATR requirements. The original scoping form was submitted to the Maryland-National Capital Park and Planning Commission (M-NCPPC) in August 2020 to address requirements under the previous Subdivision Staging Policy.

A supplemental scoping form was submitted on September 1, 2021, to address the non-vehicular components of the new Growth and Infrastructure Policy. A copy of the Scoping Agreement and the original approval can be found in Appendix A. To date, no formal correspondence has been received regarding the scoping documentation.

It was determined through the scoping process that the site will generate an additional 50 or more total weekday peak hour person trips. Therefore, the full Transportation Impact Study is required, which will address vehicular, pedestrian, bicycle, and transit adequacy at designated distances from the site. A Vision Zero statement is also provided. Details on the limits of each of these analyses are described in the respective section of this document.

Neelsville Middle School is situated within the Germantown East Policy Area, which is classified as yellow. For sites within Yellow Policy Areas, Critical Lane Volume (CLV) analysis is required for all intersections. If a CLV is greater than 1,350, Highway Capacity Manual (HCM) analysis would also be required. A CLV of 1,425 is considered acceptable within this policy area.

All turning movement counts for this project were collected in 2019 using historic data supplemented with StreetLight Data which utilizes Bluetooth technology.

Scope of Services

The principal scope of services undertaken for this study was as follows:

- Conduct a field inspection to collect physical information concerning the nearby road system including a compilation of ground level and aerial photographs.
- > Utilize available intersection turning movement count data for all study intersections.
- Prepare trip generation and trip distribution for all approved background developments and for the proposed expansion of Neelsville Middle School.
- Undertake intersection capacity analysis to determine existing and projected future levels of service at all study intersections using required methodologies.
- Review pedestrian adequacy within the designated study area including Pedestrian Level of Comfort (PLOC), street lighting, and Americans with Disabilities Act (ADA) compliance.
- Review bicycle system adequacy by quantifying Level of Traffic Stress (LTS) for all road segments within the designated study area.
- Address bus transit system adequacy by reviewing transit facilities and documenting amenities.
- Address Vision Zero requirements to review high injury segments, assess safety issues, review travel speeds, and describe site access.

Summary of Findings and Recommendations

This LATR will show that the proposed expansion of Neelsville Middle School will have a minimal impact on surrounding intersection operations. All intersections were found to operate with acceptable levels of service under existing conditions. In the future with the full buildout of the site, all intersections will maintain a CLV below 1,425. Since all locations are considered acceptable, improvements are not required to demonstrate vehicular adequacy.

Pedestrian, bicycle, transit, and safety analyses were also conducted within the defined study area. Several items were noted as areas of concern. Potential improvements were also identified that would provide adequate facilities in conjunction with typical LATR requirements. Since this project is being developed by MCPS, it is exempt from providing off-site improvements through the Mandatory Referral process. Therefore, all off-site areas of concern are provided for information purposes only, and physical improvements are not required.

On site, several enhancements are being provided to extend vehicular queuing areas and improve pedestrian safety. The improvements include sidewalks and crosswalks that will safely allow for passage of pedestrians. In addition, all bus traffic is being separated from passenger vehicle traffic.

MOTOR VEHICLE ADEQUACY

EXISTING TRAFFIC CONDITIONS

Site Information

Neelsville Middle School is located at 11700 Neelsville Church Road in the Germantown section of Montgomery County. More generally, the property is located on the south side of the roadway, east of MD 355 (Frederick Road). Access to the property is currently available via one point along Neelsville Church Road, which operates under stop control. Bus traffic and passenger vehicular traffic share the access point. A map showing the general area can be found in Figure 1.

The site is currently developed with an operational middle school. A total of 956 students were assigned to the school in 2019. Because of the attendance area for the facility, most students arrive to the site by bus. There are no walkers assigned to the school. An aerial photograph is included as Figure 2.

Study Area

Based on M-NCPPC requirements, the following intersections were identified to be included in this analysis:

- MD 355 at Shakespeare Boulevard
- MD 355 at Neelsville Church Road
- MD 355 at Germantown Road
- Germantown Road at Shakespeare Boulevard
- > Neelsville Church Road at School Access

Neelsville Church Road generally runs in the east/west direction from MD 355 to a terminus north of Germantown Road for a total distance of approximately 1.2 miles. The roadway features one travel lane in each direction and is not divided. To the east of Neelsville Middle School, the roadway features undeveloped land and residential uses. The posted speed limit along Neelsville Church Road is 25 MPH. There are no shoulders along the roadway.

In the vicinity of Neelsville Middle School, MD 355 features two travel lanes in each direction divided by a median. The roadway is owned and maintained by the Maryland State Highway Administration (SHA). Auxiliary turn lanes are available at each of the study intersections along MD 355 to facilitate left and right turns. Traffic signalization is available at the Shakespeare Boulevard and Germantown Road intersections. Neelsville Church Road is controlled by stop signs on the minor approaches.

Figure 1 - Site Location Map

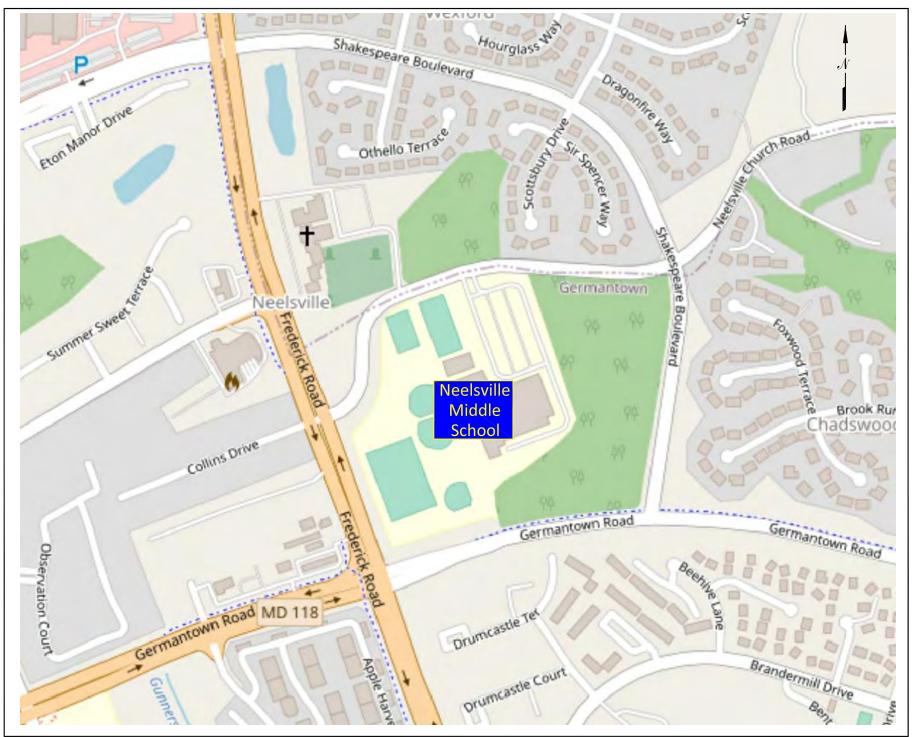
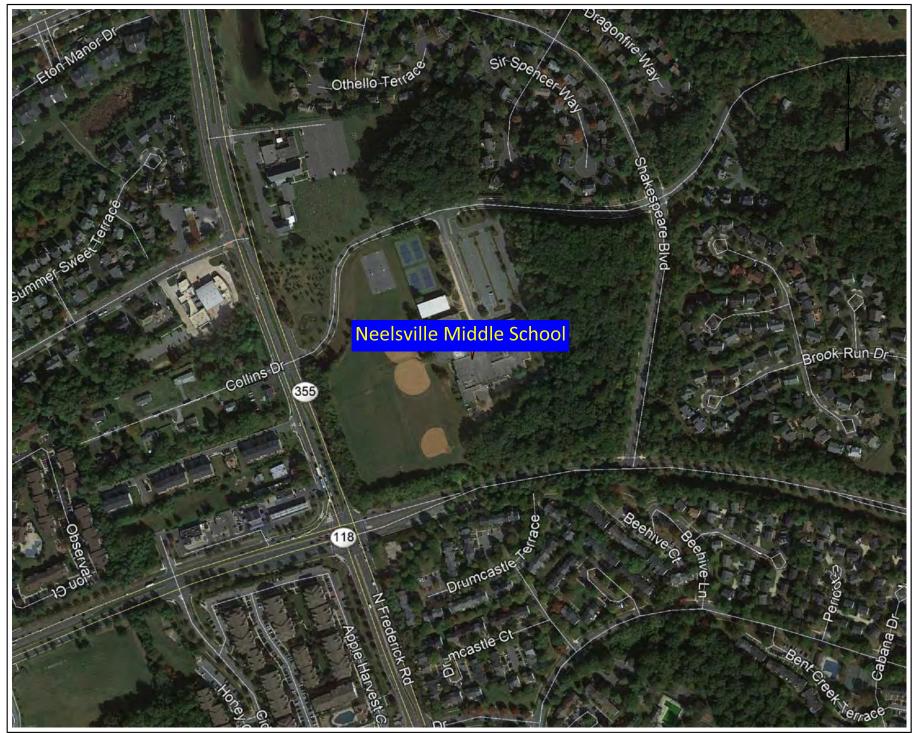


Figure 2 - Aerial Photo



Germantown Road extends from MD 28 (Darnestown Road) easterly through the intersection with MD 355. Between those two locations, the roadway is under state maintenance. To the east of MD 355, Montgomery County maintains the roadway. Beyond Neelsville Church Road, Germantown Road converts to Watkins Mill Road and extends for a distance to Montgomery Village. Near the site, the width of Germantown Road is narrowing to provide one travel lane in each direction. To the west of MD 355, the road is significantly wider providing three travel lanes in each direction. The posted speed limit of Germantown Road near Neelsville Middle School is 40 MPH.

Figure 3 has been prepared to demonstrate the existing lane use. Aerial photographs from each of the intersections can be found in Appendix B.

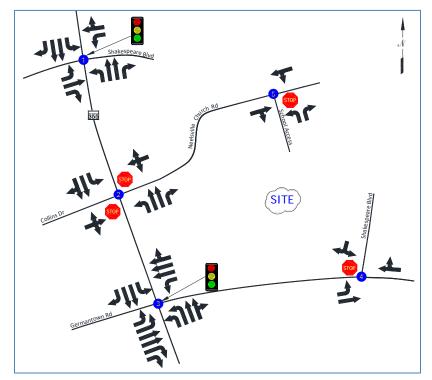


Figure 3. Existing Lane Use

Traffic Volumes

Intersection turning movement counts were obtained for each of the study intersections using historic turning movement counts from SHA and data from StreetLight Data. StreetLight Data uses Bluetooth technology to obtain and archive billions of anonymized location records from smartphones and vehicular navigation systems. The data can then be paired with land parcel records and digital road network mapping to formulate projected traffic volumes at given locations where the sample size is adequate. In this case, multiple zones were configured along MD 355 and Germantown Road to establish peak hour traffic volumes. Specifically, data from Tuesdays, Wednesdays, and Thursdays in the months of March, April, September, and October 2019 were used in this analysis. Figure 4 details the existing peak hour traffic volumes.

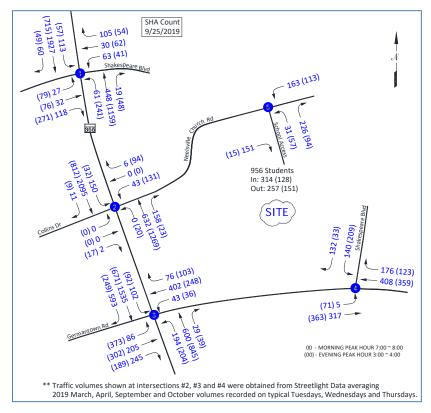


Figure 4. Existing Peak Hour Traffic Volumes

An SHA count was utilized at the intersection of MD 355 at Shakespeare Boulevard, which was obtained in 2019. In addition, SHA collected a volume count along Germantown Road on February 11, 2020. These counts were utilized to adjust the existing peak hour traffic volumes as shown in Figure 5. As shown within the figure, all volumes from StreetLight Data were increased as necessary to present a conservative analysis. Data for the school access was obtained from the Institute of Transportation Engineers (ITE) <u>Trip Generation</u> (10th Edition) using the middle school land use to account for site driveway trips.

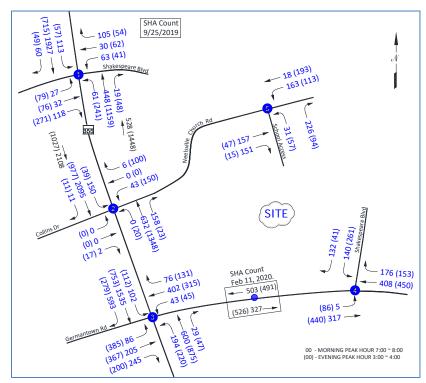


Figure 5. Adjusted Existing Peak Hour Traffic Volumes

Background Traffic

MC Atlas was reviewed to determine background developments in the vicinity of Neelsville Middle School. Two background developments were identified to be approved, but portions remain unbuilt. They include:

- Seneca Meadows Corporate Center
- Montgomery College

ITE's <u>Trip Generation</u> (10th Edition) was utilized to establish the rates and equations to quantify trips associated with each development. Table 1 provides a summary of the trip generation rates and equations for each individual development. Applying the rates and equations to the unbuilt land use size was undertaken as shown in Table 2. The adjusted vehicle trips for the Policy Area are also shown within the table.

Table 1. Trip Generation Rate for Pipeline Development

	Directional Distribution				
Formula/Rate	AM Peak Hou	r PM Pe	ak Hour		
	IN OUT	IN	OUT		
Junior/Community College (ksf, ITE-540)					
AM Peak Hour Trips = 2.07 x Students	77% 23%	50%	50%		
PM Peak Hour Trips = 1.86 X Students					
General Office Building (ksf, ITE-710)					
AM Peak Hour Trips = 0.94 x ksf + 26.49	86% 14%	16%	84%		
Ln(PM Peak Hour Trips) = 0.95 x Ln(ksf) + 0.36					

** ITE Trip Generation Manual 10th Edition, 2017.

Table 2. Trip Generation for Pipeline Developments

Land Use	Size		AM Peak Hour			PM Peak Hour		
			In	Out	Total	In	Out	Total
Seneca Meadows Corporate Center (Unbuilt Office, Germantown Town Center)								
General Office	366,619	sq.ft.	319	52	371	63	328	391
Adjusted Vehicle Trips by Policy Area	(91%)		290	47	337	57	298	355
Montgomery College (Unbuilt Junior College,	Germantown	East)						
Jurior/Community College	150,000	sq.ft.	239	72	311	139	140	279
Adjusted Vehicle Trips by Policy Area	(91%)		217	66	283	126	127	253

Note: Vehicle-Trip Generation Rate Adjustment Factor obained from Local Area Transportation Review Guideline. Fall 2017.

Based on current land use and projected travel patterns, the trips associated with each background development were distributed and assigned to the road network. Figures 6 and 7 include the trip assignments for the respective background developments. As shown, neither has a significant impact on the study intersections. Figure 8 includes a combined trip assignment for both background developments.

Adding the background trips to the existing peak hour traffic volumes results in the background peak hour traffic volumes as summarized in Figure 9.

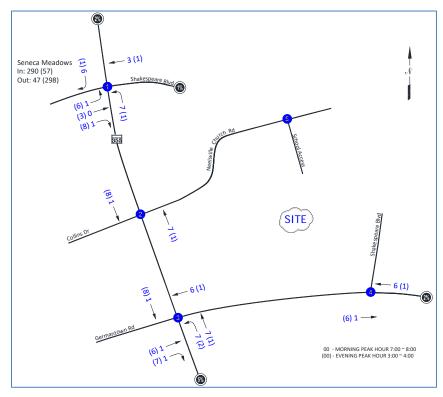
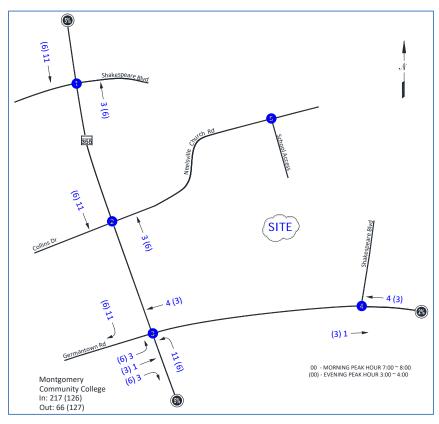


Figure 6. Trip Assignment for Seneca Meadows Corporate Center

Figure 7. Trip Assignment for Montgomery Community College



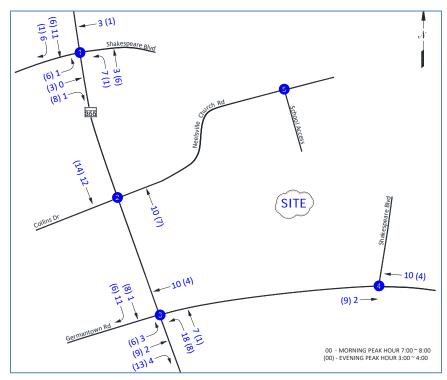
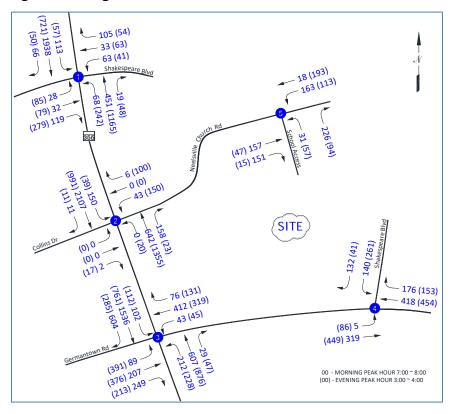


Figure 8. Combined Trip Assignment for Pipeline Developments

Figure 9. Background Peak Hour Traffic Volumes



TOTAL TRAFFIC CONDITIONS

ITE's <u>Trip Generation</u> (10th Edition) was again utilized to quantify the number of trips projected to be generated by the expansion of Neelsville Middle School. Table 3 shows a summary of the trip generation rate for the site. As noted within the table, the equations are based on the number of students for the peak hour generator. The peak hour generator represents the highest use for the site which does not necessarily coincide with regular adjacent street peak hours.

Table 3. Trip Generation Rate for Subject Site

	Directional Distribution					
Formula/Rate	AM Pea	ık Hour	PM Pea	ak Hour		
	IN	OUT	IN	OUT		
Middle/Junior High School (students, Peak Hour Generator,	ITE-522)					
Ln(Morning Trips) = 0.93 x Ln (Students) + 0.06	55%	45%	46%	54%		
Ln(Evening Trips) = 0.96 x Ln (Student) - 0.86						

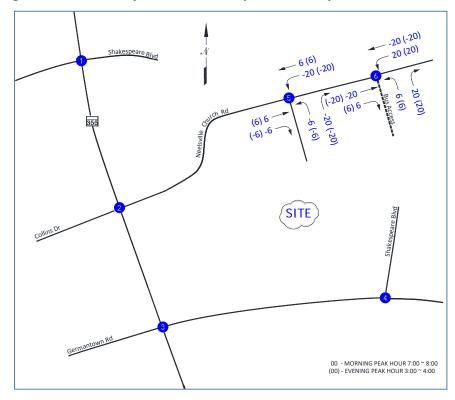
** ITE Trip Generation Manual 10th Edition, 2017.

The site capacity is projected to increase by a total of 234 students. When calculating the differential between the existing capacity of 956 and the future design capacity of 1,190 students. Specific policy area adjustments were made to the trips as shown in Table 4. The total adjusted vehicle trips for the increase are 129 during the morning peak period and 65 during the evening peak period.

Table 4. Trip Generation and Total for Subject Site

Land Use	Size		AM Peak Hour		lour	PM Peak Hour		lour
			In	Out	Total	In	Out	Total
Existing Neelsville Middle School								
Middle School	956	Students	345	283	628	141	166	307
Proposed New Middle School								
Middle School	1,190	Students	423	347	770	174	205	379
Net New ITE T	rips for	Subject Site	78	64	142	33	39	72
Adjusted Vehicle Trips k	by Policy	v Area (91%)	71	58	129	30	35	65
Total Person Trips (Ve	ehicle Tr	ips / 69.5%)			186			94
Auto Passenger Trips (Po	erson Tr	ips x 23.2%)			43			22
Transit Trips (Person T	rips x 2.5%)			5			2
Non-Motorized Trips (Person Trips x 4.8%)					9			5
Pedestrian Trips (Transit + N	on-Moto	orized Trips)			14			7

The proposed Neelsville Middle School will reconfigure the site access points to provide a separate bus access point along Neelsville Church Road. All vehicular traffic will access the facility via Neelsville Church Road as it does today; however, the entrance will be relocated to the west approximately 300 ft to align directly opposite the driveway for Neelsville Presbyterian Church. As a result, an adjustment to the existing traffic was prepared to show the new routing of buses to the new access point. A total of 26 buses are projected to be accommodated at the school. Figure 10 provides a summary of the traffic adjustment.





Based on the attendance area for the site, the trips projected to be generated were distributed and assigned to the road network. Figure 11 provides a summary of the new trip assignment. Combining the new trips with the background peak hour traffic volumes results in the total peak hour traffic volumes as shown in Figure 12.

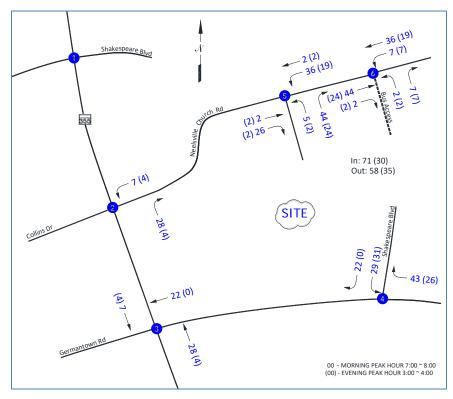
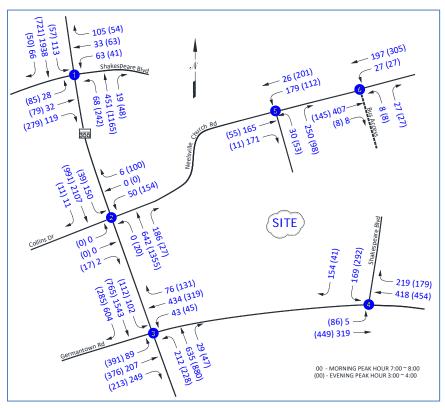


Figure 11. Trip Assignment for Subject Site





INTERSECTION CAPACITY ANALYSIS

All intersections were evaluated using Critical Lane Volume (CLV) methodology as required by M-NCPPC and SHA. The results of the intersection capacity analysis can be found in Table 5. As shown within the table, all intersections currently operate with a CLV below the congestion standard of 1425. In the future when considering the impact of background developments and site traffic, all intersections are projected to operate acceptable levels of service. Details on the CLV analysis can also be found in Appendix C.

	CLV					
Intersection	Existing Traffic		Background Traffic		Total Traffic	
	AM	PM	AM	PM	AM	PM
1. MD 355 at Shakespeare Blvd	1244	866	1261	876	1261	876
2. MD 355 at Neelsville Church Rd	1167	947	1174	1024		
Proposed Concept Plan					1181	1028
3. MD 355 at Germantown Rd	1140	889	1154	975		
Proposed Concept Plan					1166	977
4. Germantown Rd at Shakespeare Blvd	861	795	871	995		
Proposed Concept Plan					965	1052
5. Neelsville Church Rd at School Access (Vehicles)	534	363	534	363		
Proposed Concept Plan					795	464
5. Neelsville Church Rd at School Access (Bus)						
Proposed Concept Plan					450	340

Table 5. Summary of Intersection Capacity Analysis (CLV)

Note: Subdivision Staging Policy Intersection Congestion Standards for Germantown East is 1425.

PEDESTRIAN SYSTEM ADEQUACY

The Pedestrian System Adequacy Test is required for any site that generates 50 or more peak hour person trips. This test consists of three separate components:

- Pedestrian Level of Comfort
- Street lighting
- > ADA compliance

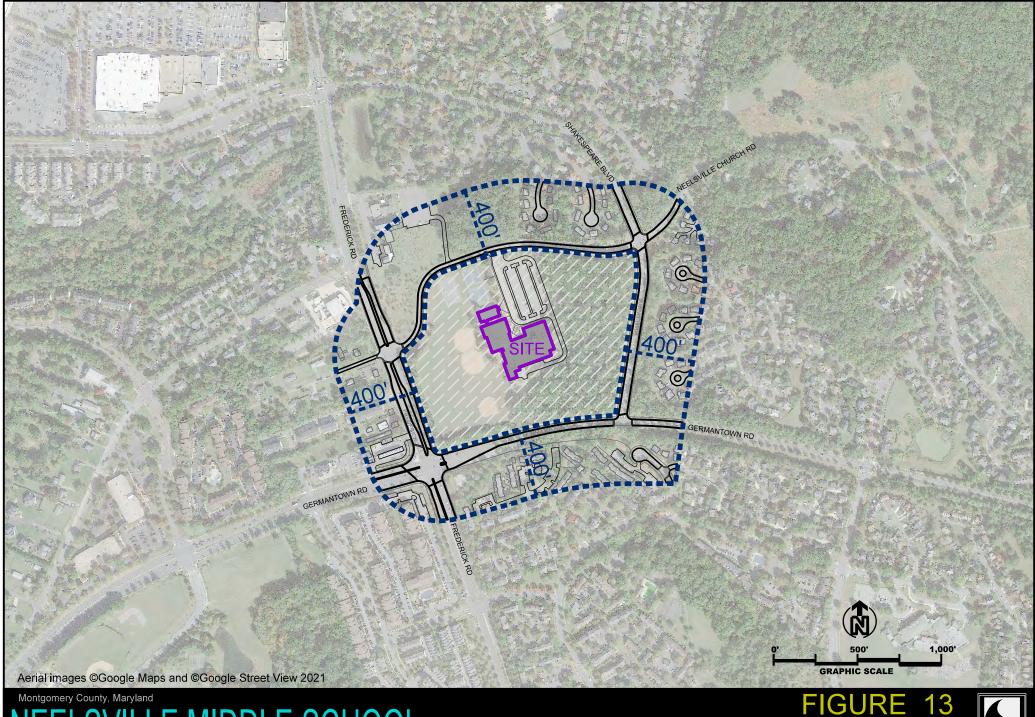
The scope of the Pedestrian System Adequacy Test varies by the number of peak hour person trips generated and the specific policy area. Table 6 shows the requirements based on the site characteristics.

Peak-Hour Person Trips Generated	Red and Orange Policy Area Walkshed*	Yellow and Green Policy Area Walkshed*
50 – 99	400'	250'
100 - 199	750'	400'
200 - 349	900'	500'
350 or more	1,000'	600'

Table 6. Pedestrian Adequacy Scoping

* The maximum required length of sidewalk and streetlighting improvements beyond the frontage is 4 times the appropriate value in this column. The maximum span required for ADA improvements beyond the frontage is equal to the appropriate value in this column.

Since Neelsville Middle School is located within a Yellow Policy Area and will generate between 100 and 199 peak hour person trips, a 400-ft walk shed must be studied. Figure 13 provides an overview showing the distance from the site.



NEELSVILLE MIDDLE SCHOOL Local Area Transportation Review





Pedestrian Level of Comfort (PLOC)

In order for a site to achieve adequacy, either "somewhat comfortable" (PLOC-2) or "very comfortable" (PLOC-1) scores must be achieved at streets and intersections for roads classified as Primary Residential or higher within the 400-ft defined walk shed. M-NCPPC has developed a databased of PLOC which is available through MC Atlas. Output from this database serves at the base map for this analysis. Figure 14 contains a summary of the PLOC within the walk shed.

Most of the adjacent roadways are considered PLOC-1 or PLOC-2. Several segments, however, are below the threshold. They include:

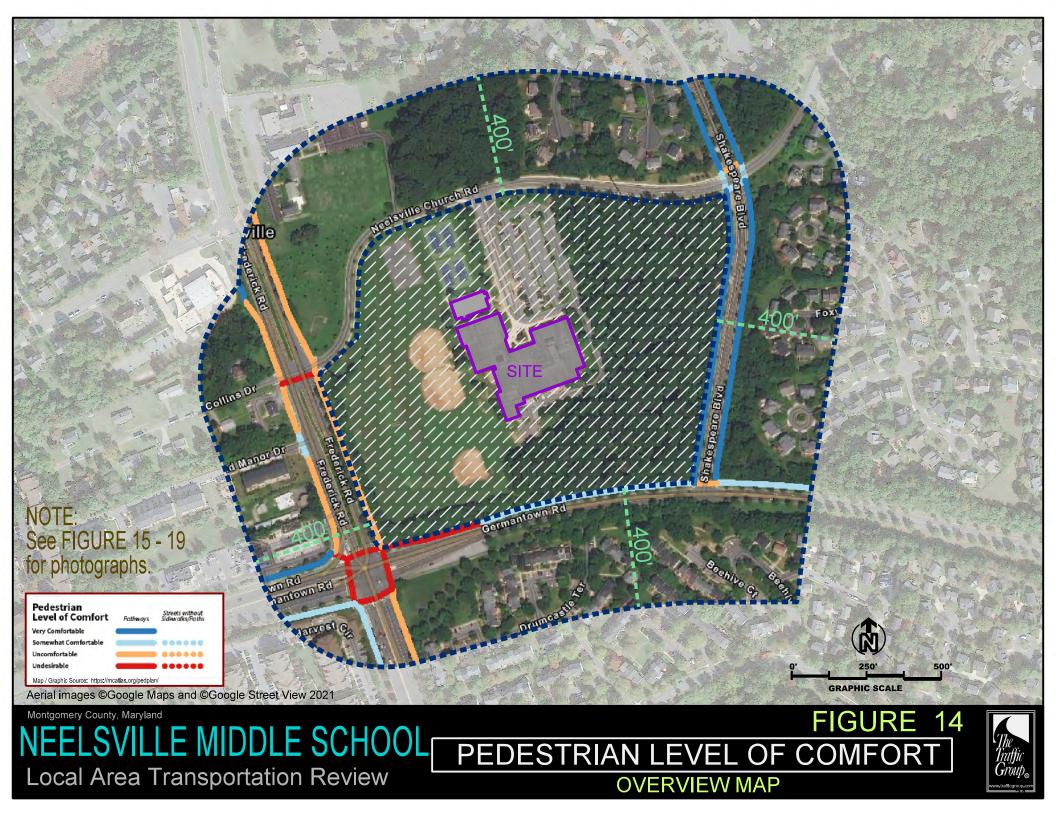
<u>Undesirable</u>

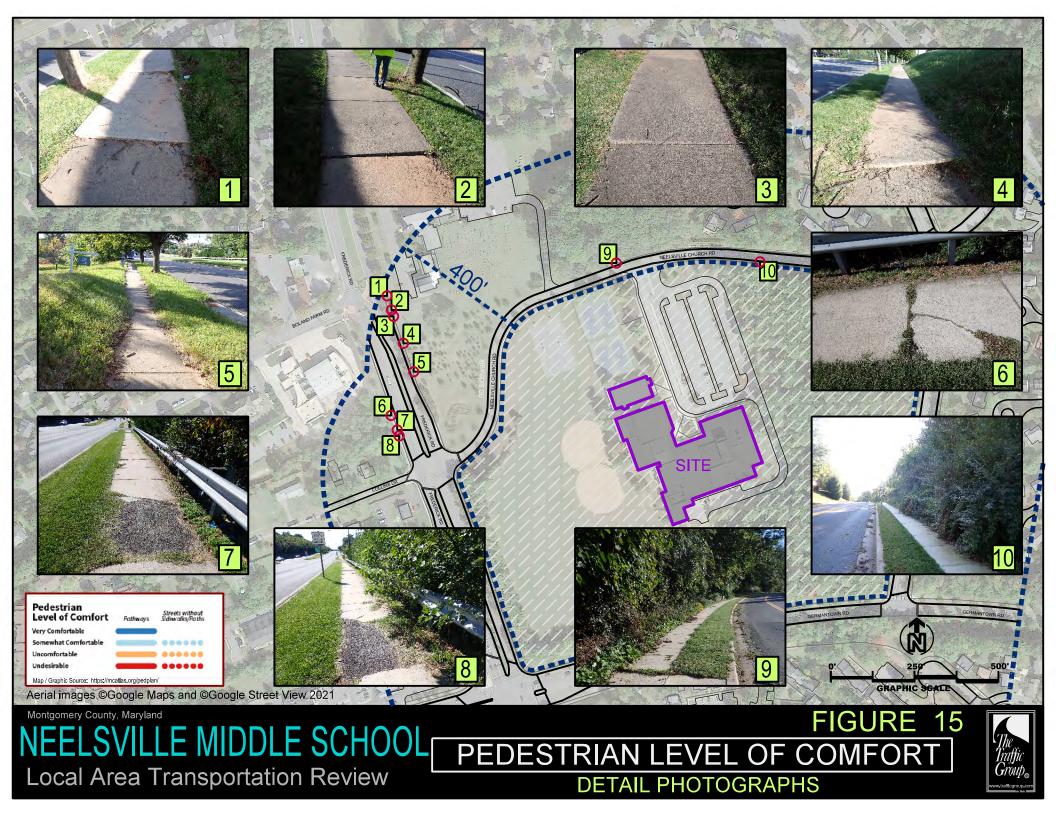
- Frederick Road at Germantown Road Crosswalks. Each of the four legs of the intersection of Frederick Road at Germantown Road is considered undesirable from a pedestrian crossing standpoint as it features approximately 130 ft of crossing space without pedestrian refuge. In addition, the southbound approach of MD 355 features a "hot right" where pedestrians cross a channelized right turn.
- MD 355 at Neelsville Church Road South Leg. The crosswalk at this location is listed as undesirable presumably because of the crossing distance of approximately 110 ft. This is a midblock crossing without any available pedestrian refuge.

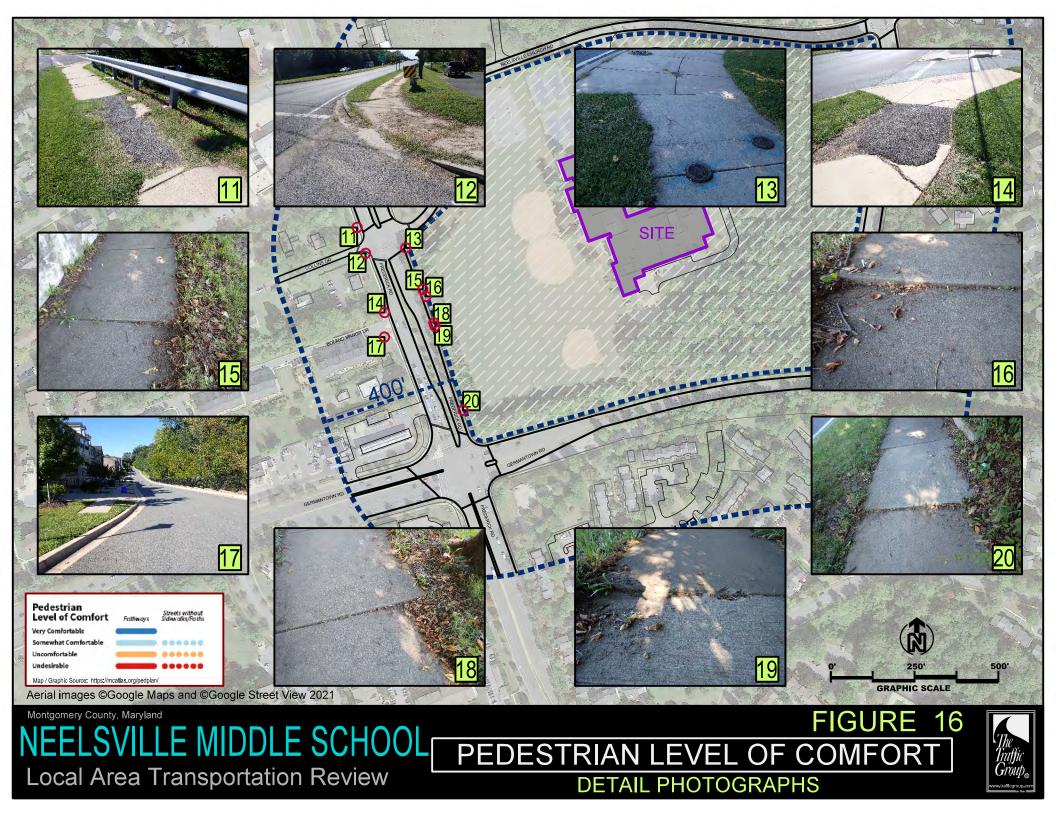
Uncomfortable

- Frederick Road (East). To the south of Germantown Road, there is a sidewalk available; however, there is only approximately a 4-ft grass strip between the sidewalk and travel lanes. The same situation is present north of Neelsville Church Road.
- Frederick Road (West). Sidewalk is available throughout the entire length of the segment; however, there is a limited grass strip through part of it consisting of only 3–4 ft.

Within the acceptable areas, there are some noted deficiencies which include narrow sidewalks, discontinuous sidewalks, and tree incursions. Figures 15–19 detail the areas of concern. A brief description of the photographs and potential improvements can be found in Table 7.











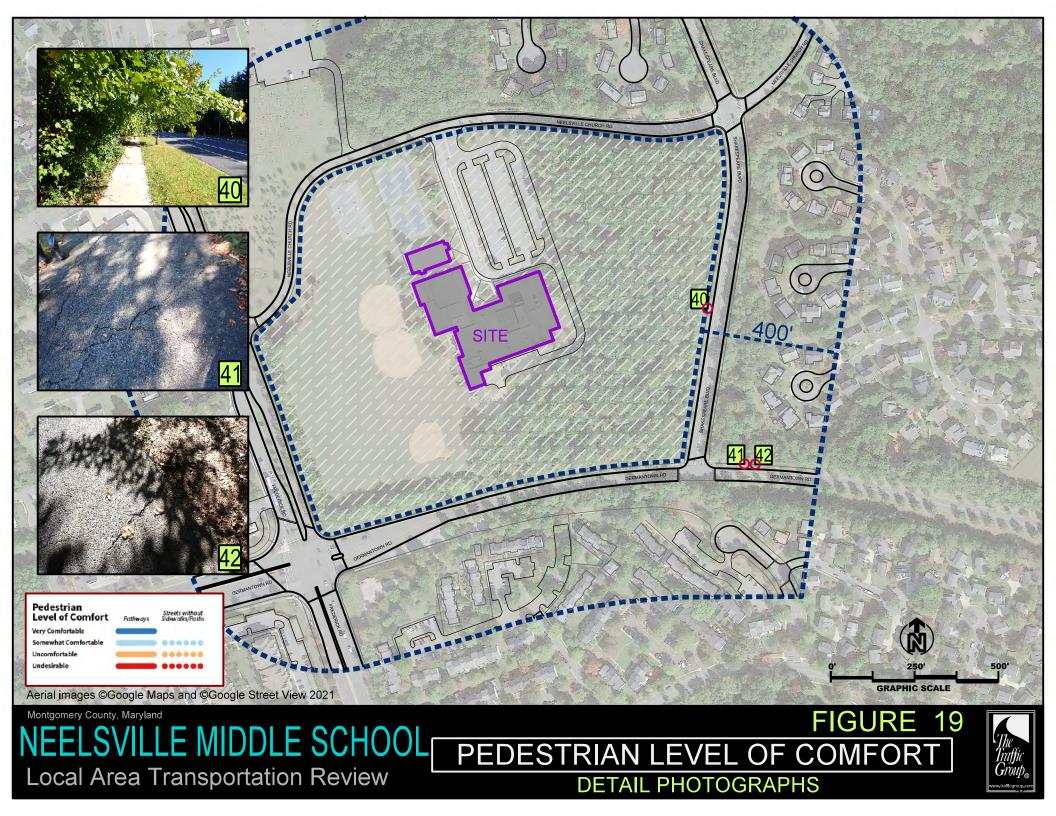


Table 7. PLOC – Photograph Descriptions

Location	Photo	Area of Concern	Potential Improvement
Frederick Rd. (Northbound); @ Boland Farm Rd.	1	Lifted Sidewalk	Provide repair to level sidewalk
Frederick Rd. (Northbound); 25' South of Boland Farm Rd.	2	Lifted Sidewalk	Provide repair to level sidewalk
Frederick Rd. (Northbound); 45' South of Boland Farm Rd.	3	Lifted Sidewalk	Provide repair to level sidewalk
Frederick Rd. (Northbound); 131' South of Boland Farm Rd.	4	Lifted Sidewalk	Provide repair to level sidewalk
Frederick Rd. (Northbound); 160'-290' South of Boland Farm Rd.	5	Vegetation Overgrowth	Remove vegetation
Frederick Rd. (Southbound); 115' North of Collins Dr.	6	Deteriorating Sidewalk	Provide repair
Frederick Rd. (Southbound); 125'-135' North of Collins Dr.	7	Missing Sidewalk	Provide sidewalk
Frederick Rd. (Southbound); 170'-180' North of Collins Dr.	8	Missing Sidewalk	Provide sidewalk
Neelsville Church Rd. (Westbound); @ Site Access	9	Vegetation Overgrowth	Remove vegetation
Neelsville Church Rd. (Eastbound); 1300'-1350' East of Frederick Rd.	10	Vegetation Overgrowth	Remove vegetation
Frederick Rd. (Southbound); 40'-55' North of Collins Dr.	11	Missing Sidewalk	Provide sidewalk
Frederick Rd. (Southbound); @ Collins Dr.	12	Vegetation Overgrowth	Remove vegetation
Frederick Rd. (Northbound); 630' North of Germantown Rd.	13	Utility Access Lip	Repair to level
Frederick Rd. (Southbound); 460' North of Germantown Rd.	14	Missing Sidewalk	Provide sidewalk
Frederick Rd. (Northbound); 500' North of Germantown Rd.	15	Lifted Sidewalk	Provide repair to level sidewalk
Frederick Rd. (Northbound); 480' North of Germantown Rd.	16	Lifted Sidewalk	Provide repair to level sidewalk
Frederick Rd. (Southbound); @ Boland Manor Dr.	17	Missing Sidewalk	Provide sidewalk
Frederick Rd. (Northbound); 400' North of Germantown Rd.	18	Lifted Sidewalk	Provide repair to level sidewalk
Frederick Rd. (Northbound); 390' North of Germantown Rd.	19	Lifted Sidewalk	Provide repair to level sidewalk
Frederick Rd. (Northbound); 120' North of Germantown Rd.	20	Lifted Sidewalk	Provide repair to level sidewalk
Germantown Rd. (Westbound); 445' East of Millennium Ct.	21	Deteriorating Sidewalk	Provide repair
Germantown Rd. (Westbound); 460' East of Millennium Ct.	22	Deteriorating Sidewalk	Provide repair
Germantown Rd. (Westbound); 515' East of Millennium Ct.	23	Lifted Sidewalk	Provide repair to level sidewalk
Germantown Rd. (Westbound); 550' East of Millennium Ct.	24	Deteriorating Sidewalk	Provide repair

Table 7. PLOC – Photograph Descriptions (Continued)

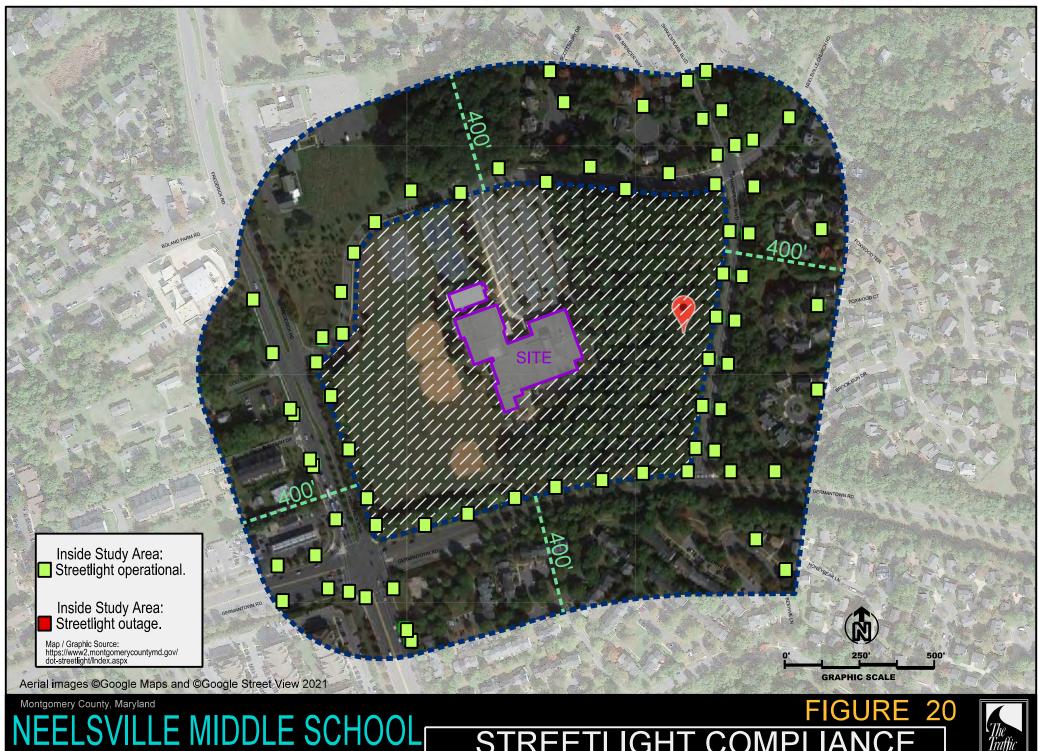
Germantown Rd. (Westbound); 625' East of Millennium Ct.	25	Lifted Sidewalk	Provide repair to level sidewalk
Frederick Rd. (Southbound); 90' North of Germantown Rd.	26	Lifted Sidewalk	Provide repair to level sidewalk
Germantown Rd. (Eastbound); 70' West of Frederick Rd.	27	Lifted Sidewalk	Provide repair to level sidewalk
Germantown Rd. (Eastbound); 45' West of Frederick Rd.	28	Lifted Sidewalk	Provide repair to level sidewalk
Frederick Rd. (Southbound); @ Germantown Rd.	29	Deteriorating Sidewalk	Provide repair
Frederick Rd. (Northbound); 60'-120' North of Germantown Rd.	30	Vegetation Overgrowth	Remove vegetation
Germantown Rd. (Westbound); 750' West of Shakespeare Blvd. to Frederick Rd.	31	Vegetation Overgrowth	Remove vegetation
Germantown Rd. (Eastbound); 60'-380' East of Frederick Rd.	32	Vegetation Overgrowth	Remove vegetation
Germantown Rd. (Westbound); 685'-715' West of Shakespeare Blvd.	33	Lifted Sidewalk	Provide repair to level sidewalk
Germantown Rd. (Westbound); 660' West of Shakespeare Blvd.	34	Lifted Sidewalk	Provide repair to level sidewalk
Germantown Rd. (Westbound); 470' West of Shakespeare Blvd.	35	Lifted Sidewalk	Provide repair to level sidewalk
Germantown Rd. (Westbound); 380' West of Shakespeare Blvd.	36	Lifted Sidewalk	Provide repair to level sidewalk
Germantown Rd. (Westbound); 370' West of Shakespeare Blvd.	37	Lifted Sidewalk	Provide repair to level sidewalk
Germantown Rd. (Westbound); 335' West of Shakespeare Blvd.	38	Lifted Sidewalk	Provide repair to level sidewalk
Germantown Rd. (Westbound); 260' West of Shakespeare Blvd.	39	Lifted Sidewalk	Provide repair to level sidewalk
Shakespeare Blvd. (Southbound); 235'-825' South of Neelsville Church Rd.	40	Vegetation Overgrowth	Remove vegetation
Germantown Rd. (Westbound); 120' East of Shakespeare Blvd.	41	Lifted Sidewalk	Provide repair to level sidewalk
Germantown Rd. (Westbound); 150' East of Shakespeare Blvd.	42	Lifted Sidewalk	Provide repair to level sidewalk

Street Lighting

As shown within the MCDOT Streetlight Index, there are approximately 75 streetlights within the defined study area. Figure 20 details the location of all street lighting. The lighting is noted as functional with no service calls placed on any existing installation.

ADA Compliance

ADA compliance was reviewed in the study area primarily at curb ramps. Deficiencies noted in the PLOC portion of the analysis could also apply to ADA compliance. Figures 21 and 22 contain photographs of the areas of concern. Table 8 provides details on each of the photographs along with potential improvements.



Local Area Transportation Review

STREETLIGHT COMPLIANCE OVERVIEW MAP





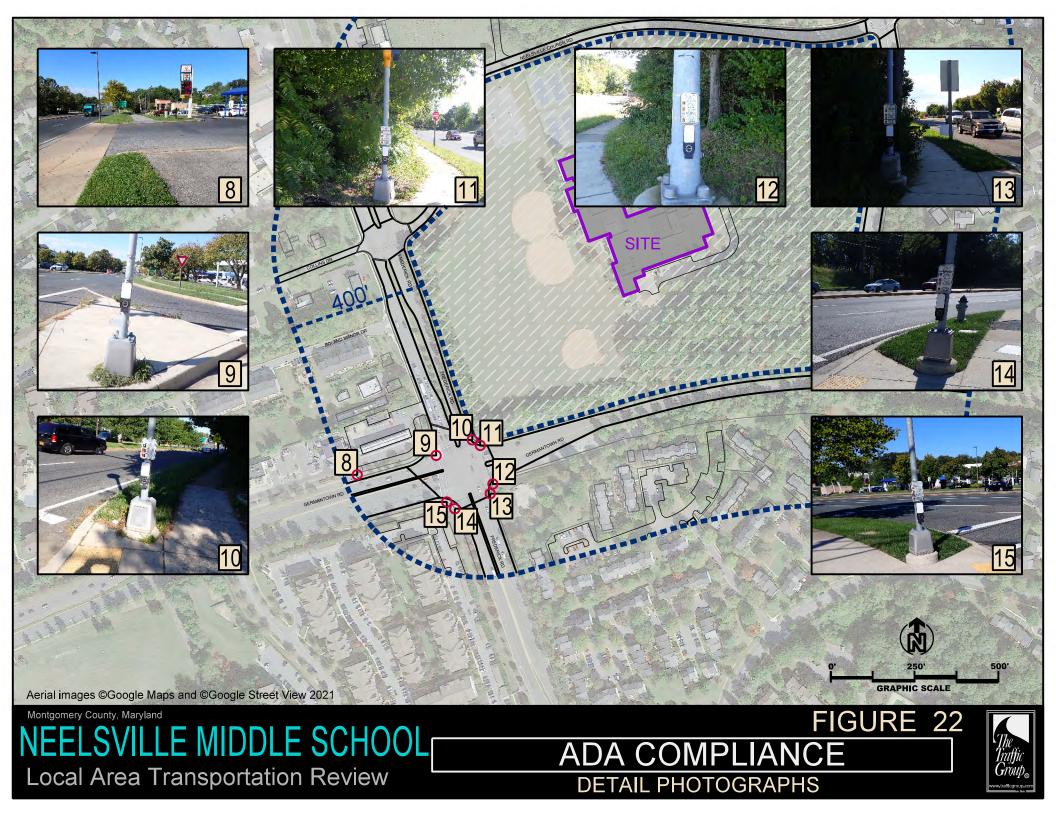


Table 8. ADA – Photograph Descriptions

Location	Photo	Area of Concern	Potential Improvement
Neelsville Church Rd. @ Site Access	1	Missing Advanced Warning Signage	Install correct signage
Neelsville Church Rd. @ Site Access	2	Missing Crosswalks	Install correct crosswalks
Neelsville Church Rd. @ Site Access	3	Missing Crosswalks	Install correct crosswalks
NW & NE Corners of Neelsville Church Rd. @ Shakespeare Blvd	4	Missing Crosswalks	Install correct crosswalks
Frederick Rd. @ Neelsville Church Rd./Collins Dr.	5	Missing Advanced Warning Signage	Install correct signage
Frederick Rd. (Southbound); 275' North of Germantown Rd.	6	Missing ADA Detectable Warning Surface	Install correct surface
Frederick Rd. (Southbound) @ 7/11 Access	7	Missing ADA Detectable Warning Surface	Install correct surface
Germantown Rd. (Westbound) @ 7/11 Access	8	Missing ADA Detectable Warning Surface	Install correct surface
NW Corner of Frederick Rd. @ Germantown Rd.	9	Missing Pedcrossing Braille Crossing Signage	Install correct signage
NE Corner of Frederick Rd. @ Germantown Rd.	10	Missing Pedcrossing Braille Crossing Signage	Install correct signage
NE Corner of Frederick Rd. @ Germantown Rd.	11	Missing Pedcrossing Braille Crossing Signage	Install correct signage
SE Corner of Frederick Rd. @ Germantown Rd.	12	Missing Pedcrossing Braille Crossing Signage	Install correct signage
SE Corner of Frederick Rd. @ Germantown Rd.	13	Missing Pedcrossing Braille Crossing Signage	Install correct signage
SW Corner of Frederick Rd. @ Germantown Rd.	14	Missing Pedcrossing Braille Crossing Signage	Install correct signage
SW Corner of Frederick Rd. @ Germantown Rd.	15	Missing Pedcrossing Braille Crossing Signage	Install correct signage

BICYCLE SYSTEM ADEQUACY

A low Level of Traffic Stress (LTS-2) is required to achieve bicycle system adequacy. The bicycle test is required for any site generating more than 50 peak hour person trips and considers different elements of the road network and adjacent features, including traffic volumes, speeds, road classification, presence of side paths, separated bike lanes, and other components.

The Neelsville Middle School will generate between 100 and 199 trips and it is in a Yellow Policy Area. Therefore, a 400-ft distance is applicable to test bicycle adequacy. Table 9 shows the M-NCPPC requirements. M-NCPPC has developed a database of bicycle stress, which is available through MC Atlas. The output from the database is used as the base map for this analysis. A site visit was undertaken in October 2021 to confirm the information and ensure no changes have been made. Figure 23 shows the bicycle levels of stress.

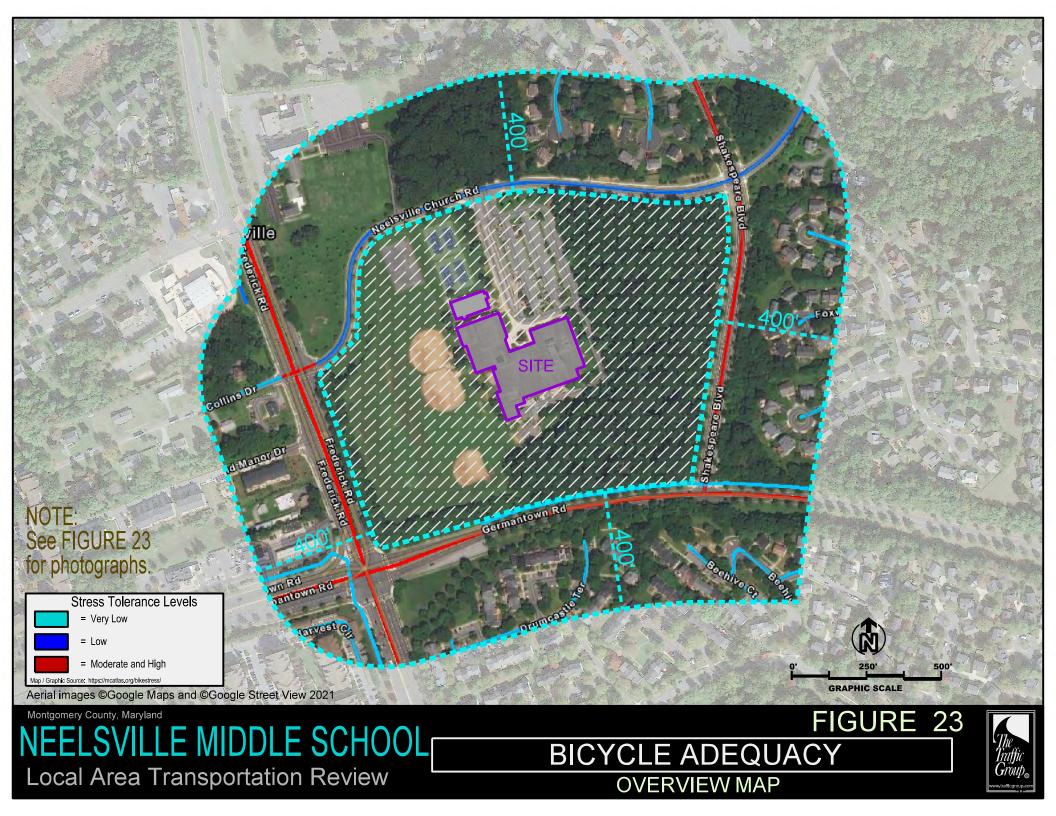
Peak-Hour Person Trips Generated	Red and Orange Policy Areas	Yellow and Green Policy Areas
50 – 99	400'	250'
100 – 199	750'	400'
200 - 349	900'	500'
350 or more	1,000'	600'

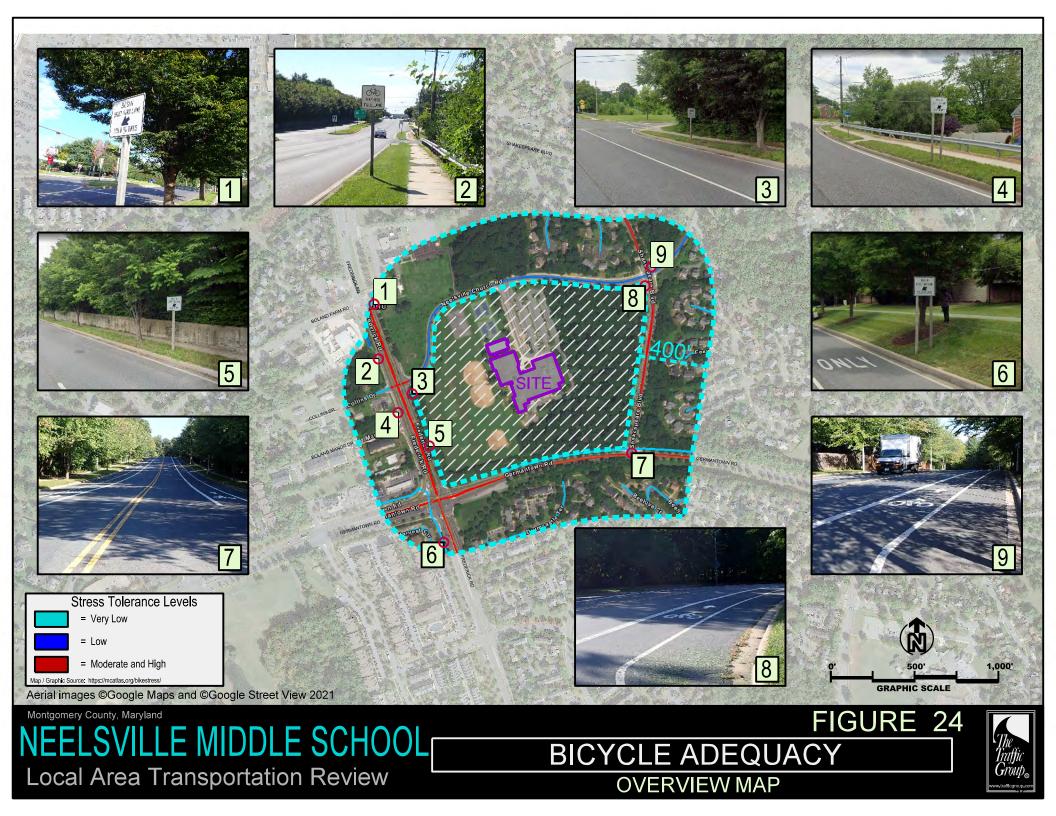
Table 9. Bicycle Adequacy Scoping Requirements

As shown within Figure 23, moderate and high levels of bicycle stress can be found along the following roadways:

- Frederick Road (MD 355) Only 'Share the Road' signing is available. No separate bicycle facilities are available.
- Germantown Road The eastbound Germantown Road approach within the study area does not have a separate bicycle facility. The north side of the roadway, however, does have a paved shared use path.
- Shakespeare Boulevard has identical bicycle features on both sides of the roadway. Specifically, a marked bike lane is available along both the northbound and southbound directions. This condition is not reflected within the bicycle level of stress map.

Photographs detailing the deficient conditions for bicycles can be found in Figure 24.





BUS TRANSIT SYSTEM ADEQUACY

The study area is served by Ride On Routes 55, 70, and 79. Figure 25 shows the general routes that are available within 1,000 ft of the site.

Route 55 operates between Rockville Metro Station and Germantown Transit Center. Some of the major stops along the route include:

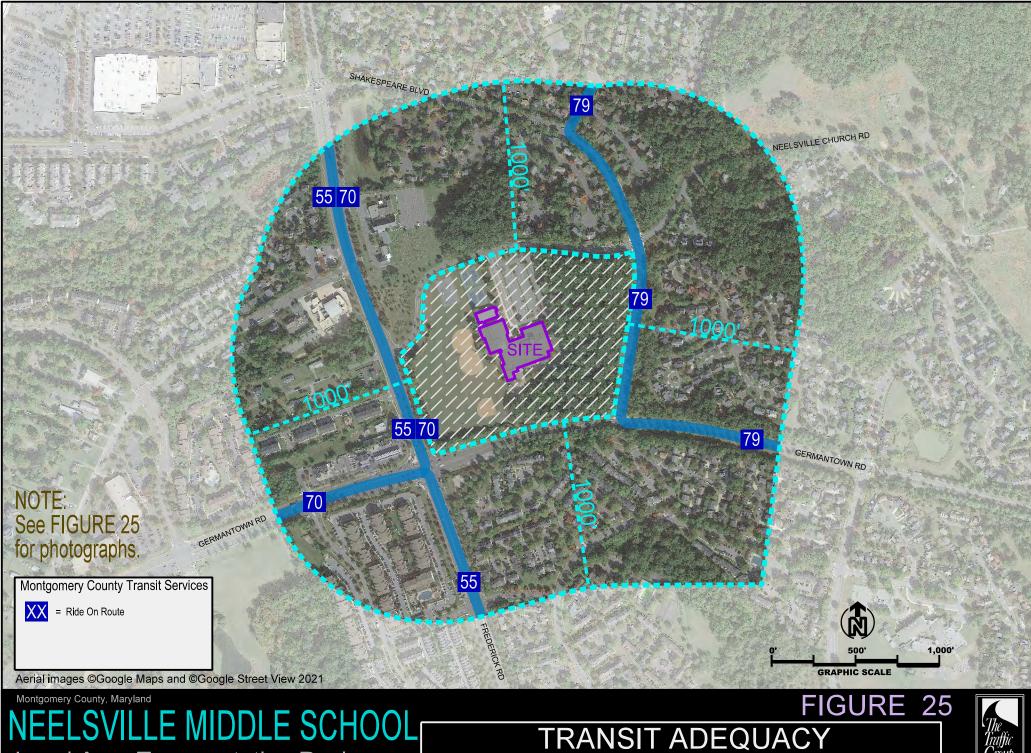
- Montgomery College Rockville
- Shady Grove Station
- Lake Forest Transit Center
- Montgomery College Germantown

Service on this route is generally available from 4:15 AM to 12:49 AM, Monday through Friday. More limited service is available on Saturdays and Sundays. The routes feature a 30-minute headway during off-peak periods and less than 12 minutes during the peak periods.

Route 70 operates between Milestone Park & Ride/Shakespeare Boulevard to the Bethesda Metro Rail Station. Other major stops along the bus route include the following:

- Medical Center Metro Station
- Suburban Hospital

Service on this route is available from 4:45 AM to 8:29 PM, Monday through Friday. Headways are approximately 35 minutes throughout the day.



Local Area Transportation Review

OVERVIEW MAP - ROUTE DETAILS

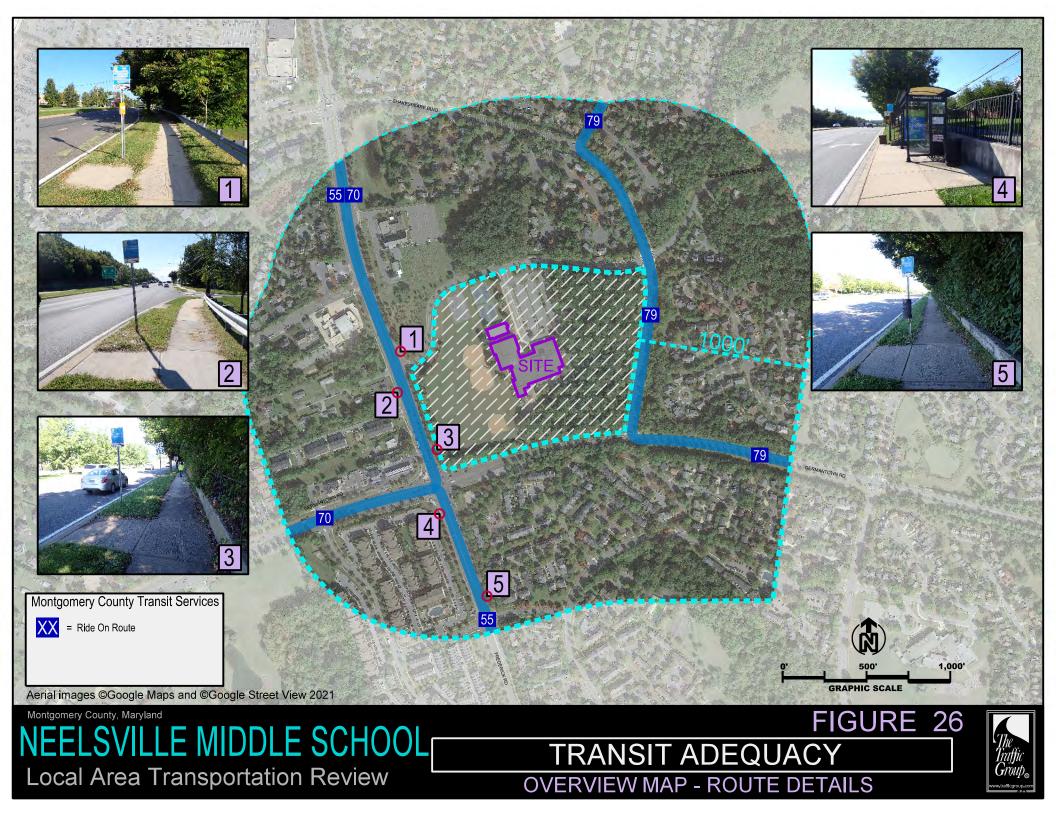


Service on Route 79 is available Monday through Friday during peak periods only. The route extends from the Clarksburg Town Center to the Shady Grove Metro Station. Service is available from 5:05 AM to 9:28 AM and then from 3:10 PM to 7:58 PM. Buses operate on 45 to 47-minute headways. Details on all of the transit routes can be found in Appendix D.

Adequacy for the bus transit system is determined by the number of shelters within a certain distance from the site. Table 10 shows the requirements. Since this location will generate between 100 and 199 person trips and is situated within a Yellow Policy Area, two shelters are required within 1,000 ft. Figure 26 details the existing bus stops and available amenities. As shown, only a single shelter is currently available. All remaining bus stops feature bus pads and signing only. The shelter is available along Frederick Road, south of Germantown Road.

Peak-Hour Person Trips Generated	Red and Orange Policy Areas	Yellow Policy Areas
50 – 99	2 shelters within 500'	1 shelter within 500'
100 - 199	2 shelters within 1,000'	2 shelters within 1,000'
200 - 349	3 shelters within 1,300'	2 shelters within 1,300'
350 or more	4 shelters within 1,500'	3 shelters within 1,500'

Table 10. Transit Adequacy Scoping Requirements



VISION ZERO STATEMENT

This section of the LATR assesses the High Injury Network (HIN) and overall safety issues. In addition, traffic speeds are reviewed on the key roadways within the study area. The site access is also discussed in the sections below. Table 11 details the scoping requirements. As shown within the table, an area extending 400 ft beyond site frontage must be reviewed. A maximum of two speed studies are also required.

Peak-Hour	Distance fron	n Site Frontage	Max. Number	of Speed Studies
Person Trips	Red and Orange Yellow and Green		Red and Orange	Yellow and Green
Generated	Policy Areas	Policy Areas	Policy Areas	Policy Areas
50-99	400'	250'	2	1
100-199	750′	400'	4	2
200-349	900'	500'	6	3
350 or more	1,000'	600'	8	4

Table 11. Vision Zero Scoping Requirements

High Injury Network

M-NCPPC maintains a database of corridors that are considered part of the HIN. Roadways meet this threshold if there are five or more serious or fatal crashes and one or more collisions per mile per year. The HIN database was reviewed, and two segments were identified in the study area. They include:

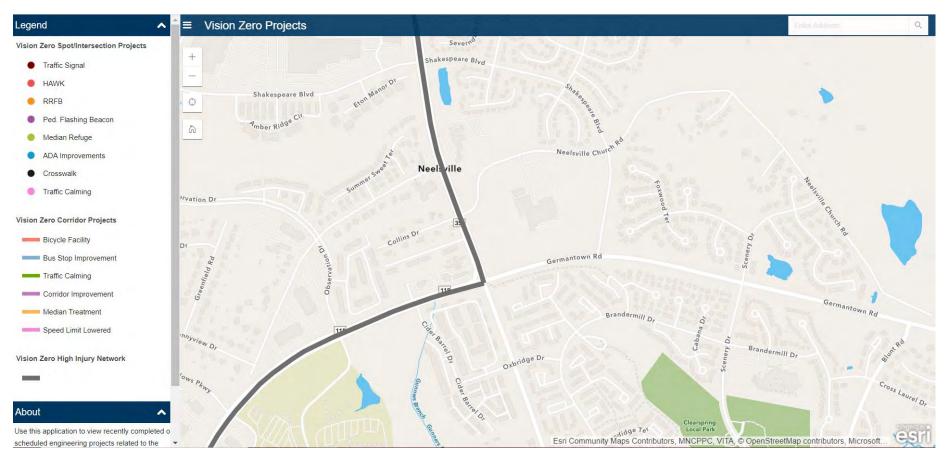
- MD 355 Germantown Road to Ridge Road
- Germantown Road (MD 118) I-270 to MD 355

Figure 27 shows the HIN mapping.

The MD 355 segment incorporates a total distance 0.88 miles. A total of 11 severe and fatal crashes have been reported from 2012 to 2016. This corresponds to a crash density of 2.50 and a crash rate of 19.66. Nine percent (9%) of the severe crashes involved pedestrians and bicyclists where one pedestrian was injured. None of the crashes in this corridor was fatal.

The Germantown Road segment extends for a total of 0.72 miles. Along this segment, six severe and fatal crashes were reported from 2012 through 2016. One pedestrian was injured within the crashes accounting for 17% of the injuries.

Figure 27. HIN Network



Crash Data

Crash data was obtained from the Maryland Open Data portal, which is maintained by the State of Maryland. Within the study area, significant crash history has been reported from 2015 through 2021, particularly at the intersection of Frederick Road at Germantown Road. Relatively few crashes have been reported at other adjacent intersections within 400 ft of the site. Over the 5½ year crash reporting period, most locations feature no more than 1–2 crashes per year. Full details on the crash data can be found in Appendix E. Figure 28 contains a summary of the number of crashes at each location.

A review of the crash data contained in the appendix reveals that a significant majority of all crashes involved property damage only. Rear ends were the most prevalent collision type representing over 60% of all crashes at the intersection of MD 355 at Germantown Road. The crashes generally were spread throughout the day and occurred on different approaches and within different areas of the road, including left turn lanes, right turn lanes, and acceleration lanes.

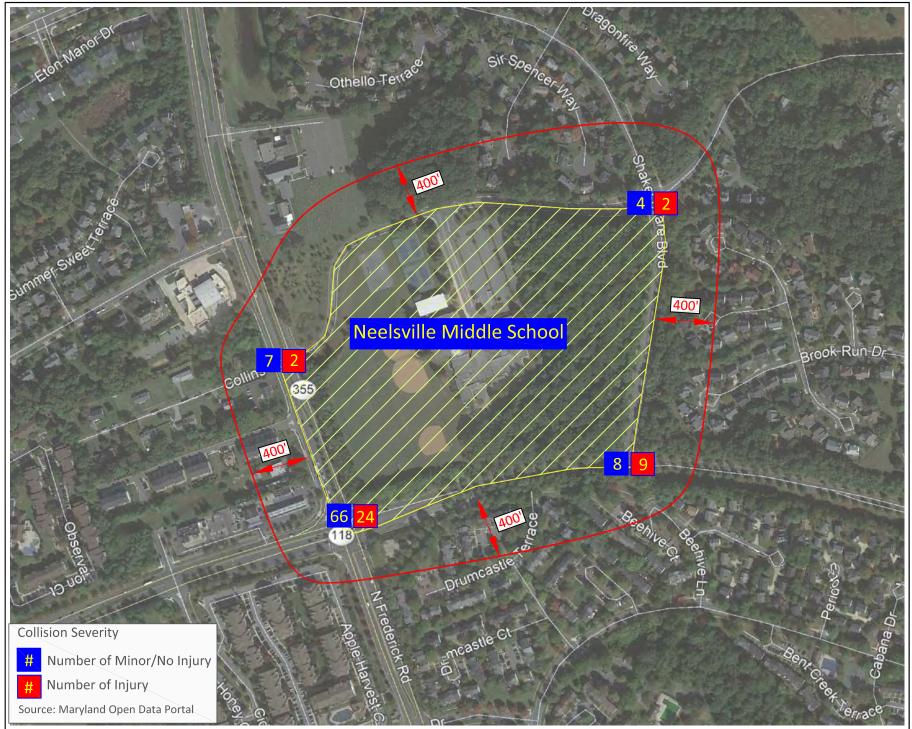
There was a total of 10 same direction angle (left turn) collisions that were reported over the 5½ year period. With no permissive left turns at this location, these collisions can only occur when drivers disobey the traffic signal.

At the intersection of MD 355 at Shakespeare Boulevard, a total of five crashes were reported from 2016 through 2021. Four of the five crashes involved property damage only. Three crashes were single vehicle crashes.

At Neelsville Church Road and MD 355, a total of four crashes were reported during the same time period. Two involved injury crash, which both were angle collisions.

Given the relative minimal crash history at surrounding intersections and amount of property damage crashes that occurred at MD 355 and Germantown Road, it is not expected that the addition at Neelsville Middle School will have a direct impact on intersection safety.

Figure 28 - Crash (2015 - 2021 Q2) Locations



Rh, 200506\REV1\FIG.dwg-EXIST, F10/11/21

Speed Data

A total of two 48-hour speed studies were undertaken within the study area along selected roadways. Table 12 details the measured 85th percentile speeds and the posted speed limits. As shown within the table, the travel speeds were very consistent with the speed limit, and the measured 85th percentile speed was near the posted speed limit and likely adequate for the current conditions. Complete speed study data can be found in Appendix E.

Table 12. Speed Data Summary

Location	Posted Speed	Measured 85 th Percentile Speed
Neelsville Church Road	25	27 eastbound, 31 westbound
MD 355	45	44 northbound, 46 southbound

Site Access

Vehicular access to Neelsville Middle School is proposed via one point along Neelsville Church Road opposite access to the church parking lot. This main access point will serve passover vehicular traffic only. Within this area, any vehicles dropping students off will be routed immediately to the right as shown within the blue arrow. Traffic would then circulate through the parking area to exit.

Access for all bus traffic is proposed to the east along Neelsville Church Road. The two access points will be separated by approximately 300 ft. The bus loop will extend around the site and all bus boardings and alightings will occur to the south of the school. This configuration will provide extensive storage space on site. The bus loop is denoted by the yellow area within Figure 29.

Each access point will operate under stop control.

Within the site, several crosswalks are proposed to assist pedestrian traffic from the parking area to the school building. In addition, crosswalks are proposed along Neelsville Church Road at each site access point. The crosswalks are shown within Figure 29.



NEELSVILLE MIDDLE SCHOOL Local Area Transportation Review



RESULTS, RECOMMENDATIONS, AND CONCLUSIONS

Study Purpose

The Traffic Group, Inc. has prepared this LATR to quantify the impact the proposed expansion of Neelsville Middle School will have on the surrounding road network in the Germantown section of Montgomery County. An operational middle school is currently sited on the property, with a student population of 956. With the completion of this expansion, a total of 1,190 students will be accommodated.

Access to the property is currently available via one point along Neelsville Church Road, which operates under stop control. Upon completion of this expansion, a second point of access will be provided which will provide separation from bus and vehicular traffic. The access points are proposed to operate under stop control.

This site is being developed by MCPS and is therefore being reviewed as a Mandatory Referral project. All findings in this document are considered advisory in nature.

Study Criteria/Methodology

This study was conducted in accordance with Montgomery County's LATR requirements. The original scoping form was submitted to M-NCPPC in August 2020 to address requirements under the previous Subdivision Staging Policy.

A supplemental scoping form was submitted on September 1, 2021, to address the non-vehicular components of the new Growth and Infrastructure Policy. A copy of the Scoping Agreement and the original approval can be found in Appendix A. To date, no formal correspondence has been received regarding the scoping documentation.

It was determined through the scoping process that the site will generate an additional 50 or more total weekday peak hour person trips. Therefore, the full Transportation Impact Study is required, which will address vehicular, pedestrian, bicycle, and transit adequacy at designated distances from the site. A Vision Zero statement is also provided. Details on the limits of each of these analyses are described in the respective section of this document.

Neelsville Middle School is situated within the Germantown East Policy Area, which is classified as yellow. For sites within Yellow Policy Areas, CLV analysis is required for all intersections. If a CLV is greater than 1,350, HCM analysis would also be required. A CLV of 1,425 is considered acceptable within this policy area.

All turning movement counts for this project were collected in 2019 using historic data supplemented with StreetLight Data which utilizes Bluetooth technology.

Summary of Findings and Recommendations

This LATR will show that the proposed expansion of Neelsville Middle School will have a minimal impact on surrounding intersection operations. All intersections were found to operate with acceptable levels of service under existing conditions. In the future with the full buildout of the site, all intersections will maintain a CLV below 1,425. Since all locations are considered acceptable, improvements are not required to demonstrate vehicular adequacy.

Pedestrian, bicycle, transit, and safety analyses were also conducted within the defined study area. Several items were noted as areas of concern. Potential improvements were also identified that would provide adequate facilities in conjunction with typical LATR requirements. Since this project is being developed by MCPS, it is exempt from providing off-site improvements through the Mandatory Referral process. Therefore, all off-site areas of concern are provided for information purposes only, and physical improvements are not required.

On site, several enhancements are being provided to extend vehicular queuing areas and improve pedestrian safety. The improvements include sidewalks and crosswalks that will safely allow for passage of pedestrians. In addition, all bus traffic is being separated from passenger vehicle traffic.

APPENDIX A

Scoping Documentation



From:Carl WilsonTo:Freer, WalkerSubject:LATR Scoping Form for Neelsville Middle SchoolDate:Monday, August 24, 2020 11:53:00 AMAttachments:Scoping Form.pdf

Hi Walker-

Attached please find a scoping agreement for the reconstruction of Neelsville Middle School. We plan to use one count from 2019 and supplement with available big data obtained from 2019 or early 2020 when school was in session. Please let me know if you have any questions.

Thanks! Carl



Carl Wilson, Jr., P.E, PTOE, RSP Vice President The Traffic Group, Inc. 9900 Franklin Square Dr. - Suite H Baltimore, MD 21236 T 410.931.6600 M 410.292.5545 F 410.931.6601 cwilson@trafficgroup.com www.trafficgroup.com

Merging Innovation and Excellence®





Local Area Transportation Review

TRANSPORTATION IMPACT STUDY SCOPE OF WORK AGREEMENT

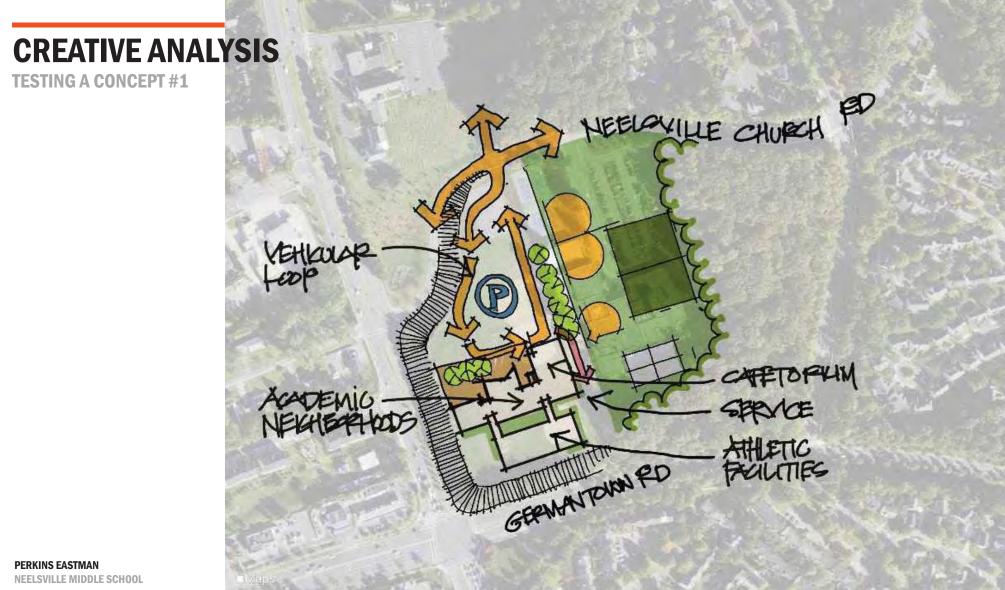
Updated July 2020

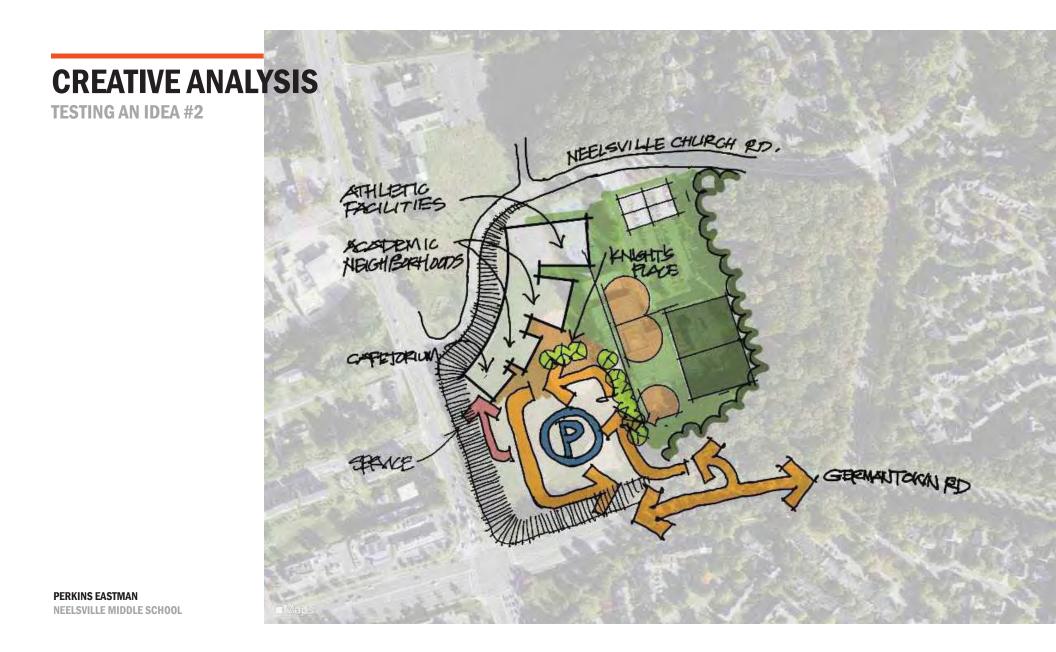
Scoping Approval - Prior scoping <i>must be approved</i> by Department of Transportation the Applicant to obtain approv agency representatives. Gene form review. Substantially large	relevant agencies, includi , and the State Highway , which is demonstrated rally, the Applicant should	ing the Adminis d belov d anticij	Planning stration (v via sign pate a tu	Department where relevant ature or elect rnaround time	, the Montg nt). It is the ronic signa e of ten (10	omery County e responsibility of ture of the relevant)) business days for
Montgomery County Plann	ing Department					
Name (print):	Signatu	ure:			C	Date:
Montgomery County Depa	rtment of Transportati	on				
Name (print):					C	Date:
State Highway Administrat	tion (where relevant)					
Name (print):		ure:			C	Date:
Applicant Contact Inform	nation					
Transportation Consultant (company, contact name, email, and phone number)						
Name of Applicant / Developer						
Project Information	Inclu	ude Ta	bles/Gra	phics, As Ne	eded	
Project Name (include plan no. if known)						
Project Location (include address if known)						
Policy Area(s) (subdivision staging policy map)			Master F Sector F	Plan(s) / Plan Area(s)		
Application Type(s)	Preliminary Plan	□ Sit	te Plan	□ Sketch/Cono Preliminary		Amendment
	Conditional Use		cal Map dment	□ APF at B Permit	uilding	□ Other:

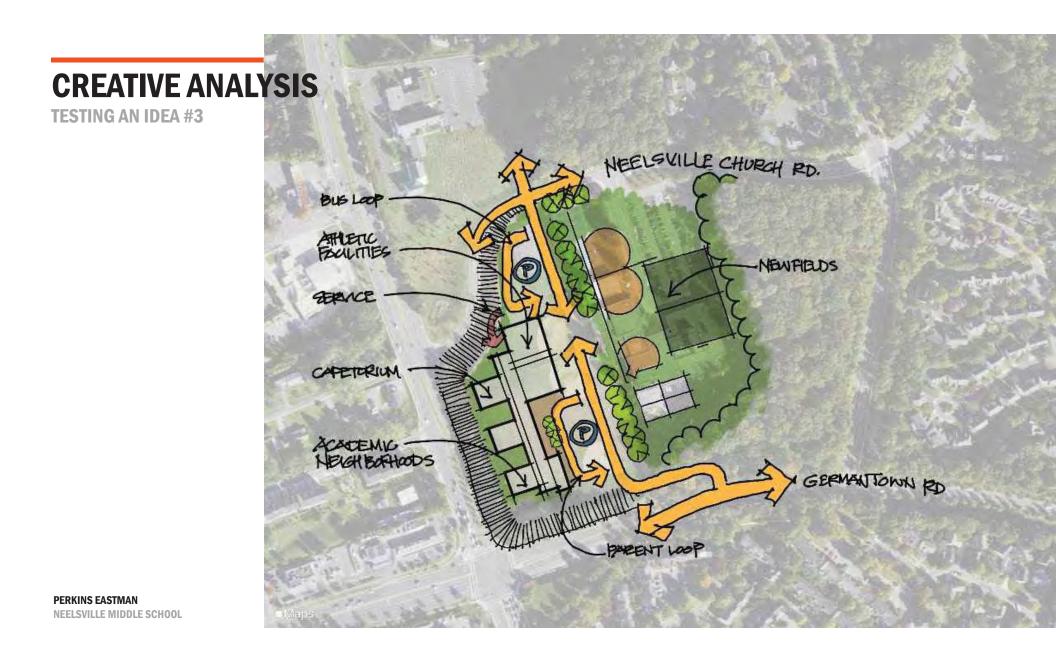
Project Description & Previous Approvals (proposed land uses, zoning, no. of units, square footage, construction phasing, prior approvals and proposals, existing uses, site operations, year built, status of Adequate Public Facilities [APF], other relevant info)					
1.Site Access (proposed access location(s), existing/adjacent/opposite curb cuts, interparcel connections, access configurations and restrictions, internal circulation, private roads, parking/loading areas, other relevant info)					
2.Transportation Analysis Requirement	☐ Transportation Impact Study Generates <u>50 or more</u> total weekday peak hour person trips (vehicular, transit, bicycle, and/or pedestrian) with no reductions other than a credit for existing developments over 12 years old, <u>AND</u> is outside of the White Flint and White Oak Policy Areas. Fill out remainder of this form and include in transportation impact study appendix.		Generat hour pe and/or j than a c 12 years	Transportation Study Exemption Statement tes <u>49 or fewer</u> total weekday peak rson trips (vehicular, transit, bicycle, pedestrian) with no reductions other credit for existing developments over s old, <u><i>OR</i></u> within White Flint and White icy Areas.	
3.Project-based Transportation Demand Management Plan Required (see Chapter 42, Articles I and II)	□ No	Yes (In Transpo [TMD])	ortation Managemen	t District	Amend Existing TMAg
4.Established Transportation Management District (TMD)?	□ No	□ Yes	TMD Name: _		
Transportation Impact S	Study Assum	notions	In	clude Ta	ables/Graphics, As Needed
5.Study Years / Phases	Existing Year:		Phases / Build-ou		•
6.Study Periods		M 🗆 Mio		. ,	Sunday Other:

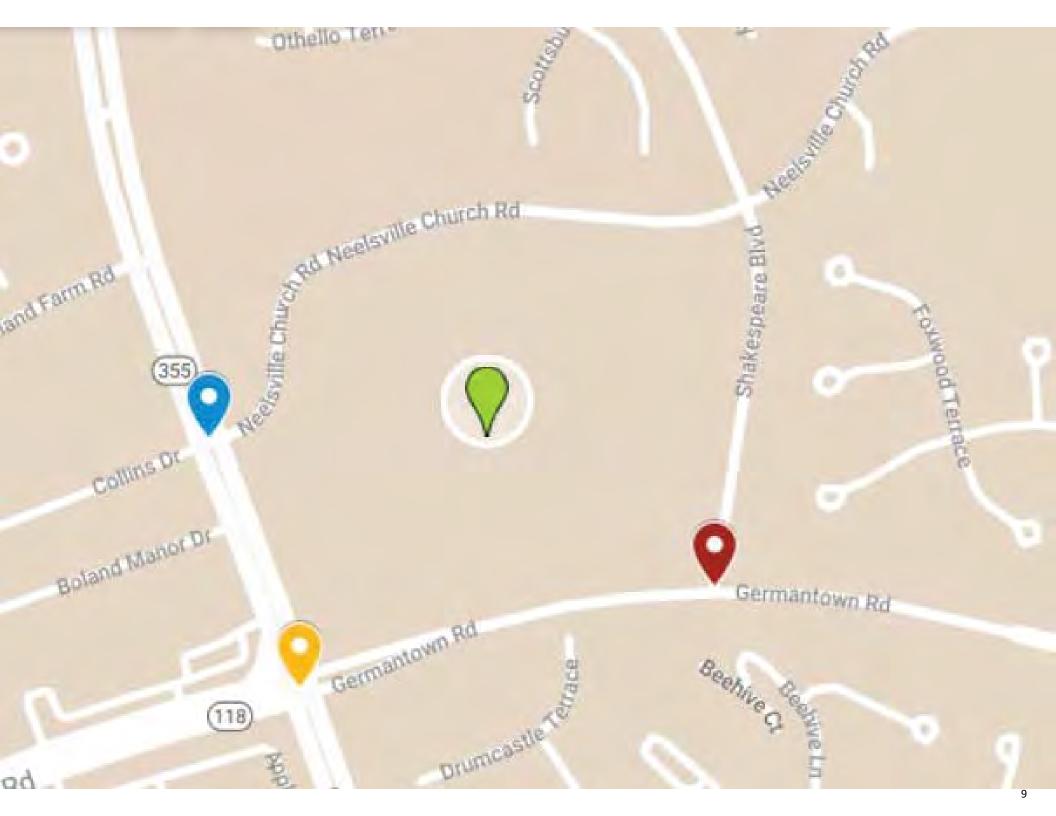
7.Study Intersections (For projects generating 50 or	For the purpose of a subject site should a	sections to study (re determining the num also include nearby un this calculation other	ber of tiel hbuilt pro	rs of study in operties in co	ntersections, trip calc mmon ownership. No	o trip reductions
more person trips, list all signalized & significant	1)			7)		
unsignalized intersections, and	2)			8)		
site driveways traffic counts must be collected within 12-	3)			9)		
months of completed and accepted application)	4)			10)		
	5)			11)		
	6)			attach mo	re rows if necessar	у
8.Trip Generation	Total Person Trips	Vehicle Trips* (Auto Driver)	Trans	it Trips*	Walking Trips* (non-motorized + transit)	Bicycling Trips* (non-motorized)
(clearly cite sources and methodology including use of average rates vs. equation;						
include trip generation for existing site, current approvals, proposed uses, and net changes)	of all vehicle, transi	otal peak hour persor it, and non-motorized m to show all calcula	I trips sha	all be the equ	ivalent of total perso	n trips. Use table at
9.Trip Reductions						
(include justification and supporting documentation for internal capture, pass-by, diverted, Transportation Demand Management)						
10.Trip Distribution %						
(include a map of the proposed project in addition to a list or table)						
11.Pipeline Developments to be considered as background traffic						
(include name, plan #, land uses, and sizes for approved but unbuilt developments or concurrently pending applications; info can be obtained from the M-NCPPC Pipeline website: - website is updated quarterly)						
12.Pipeline Transportation Projects to be considered as background condition (fully funded for construction in County Capital Improvement Program, State Consolidated Transportation Program, developer projects, etc. within the next 6 years)						

Preliminary Mitigation	n Analysis	*Refer to the LATR Guidelines for details on how to mitigate
14.Vehicular Analysis	 Vehicular Analysis Anticipated (Vehicular mitigation to be determined after study) 	 TEST: HCM Analysis is required to be provided for all intersections analyzed in studies for: 1) "Red & Orange" policy areas, and 2) intersections with a CLV of more than 1,350 in "Yellow & Green" policy areas. 3) CLV analysis required for all intersections regardless of policy area. CLV assessment and signal timing worksheets are to be included in the study appendix. MITIGATION: Required if HCM delay analyses exceed policy area standard
15.Pedestrian Analysis	 Pedestrian Mitigation Anticipated 	 TEST: If the plan generates 50 or more pedestrian peak hour trips, mitigation of surrounding pedestrian conditions is required MITIGATION: Required if ADA non-compliance issues within 500 foot radius of site boundary and if pedestrian crosswalk delay at LATR intersections within 500 feet of site boundary is lower than Level of Service (LOS) D
16.Bicycle Analysis	 Bicycle Mitigation Anticipated 	 TEST: If the plan generates 50 or more bicycle peak hour trips and is within 0.25 miles of an existing educational institution or existing/planned bikeshare station, mitigation of surrounding bicycle conditions is required MITIGATION: Required to make improvements to provide a low Level of Traffic Stress to any existing similar facility within 750 feet of the site boundary; Alternatively, project may provide a master planned improvement that provides an equivalent improvement in the level of traffic stress for cyclists
17.Transit Analysis	 Transit Mitigation Anticipated 	 TEST: If the plan generates 50 or more transit peak hour trips and the peak load of bus routes at bus stops within 1,000 feet of site boundary exceeds (or is worse than) peak load of LOS D (1.25 transit riders per seat during the peak period in the peak direction), mitigation of transit conditions is required MITIGATION: Required to provide or fund improvements that would mitigate the trips exceeding the standard that are attributable to the development
Additional Analysis or Software Required	 Queuing Analysis Signal Warrant Ar Weaving/Merge A 	nalysis 🗆 Synchro 👘 🗆 CORSIM
M-NCPPC Clarifications		Additional Assumptions & Special Circumstances for Discussion
 Transportation impact sturequirements of the LATR Gu If physical improvements transportation impact study w to right-of-way and utility releted If the development propotransportation impact sture Applicant will work with M-NC accurately reflect the new prosecurately reflect the new prosecurately review fee has been pathe time the development appered an incorporated City) and two impact study and appendices 	idelines not listed on this for are proposed as mitigativill demonstrate feasibility to ocation (at a minimum). sal significantly change dy scope has been agreed CPPC staff to amend the sc oposal. wing that the transportation id will be provided to M-NO plication is submitted. copies (more if near the C o PDF copies of the transport	orm. Ition , the with regards es after this d to, the cope to on impact CPPC DARC at County line or









Trip Generation Rates

	Dii	ectional	Distribu	ution
Formula/Rate	AM F	eak Hour	PM Pea	ak Hour
	IN	OUT	IN	OUT
Middle School (Students, ITE-520)				
Morning Trips = 0.57 x Students	54%	46%	46%	54%
Evening Trips = 0.35 x Students				

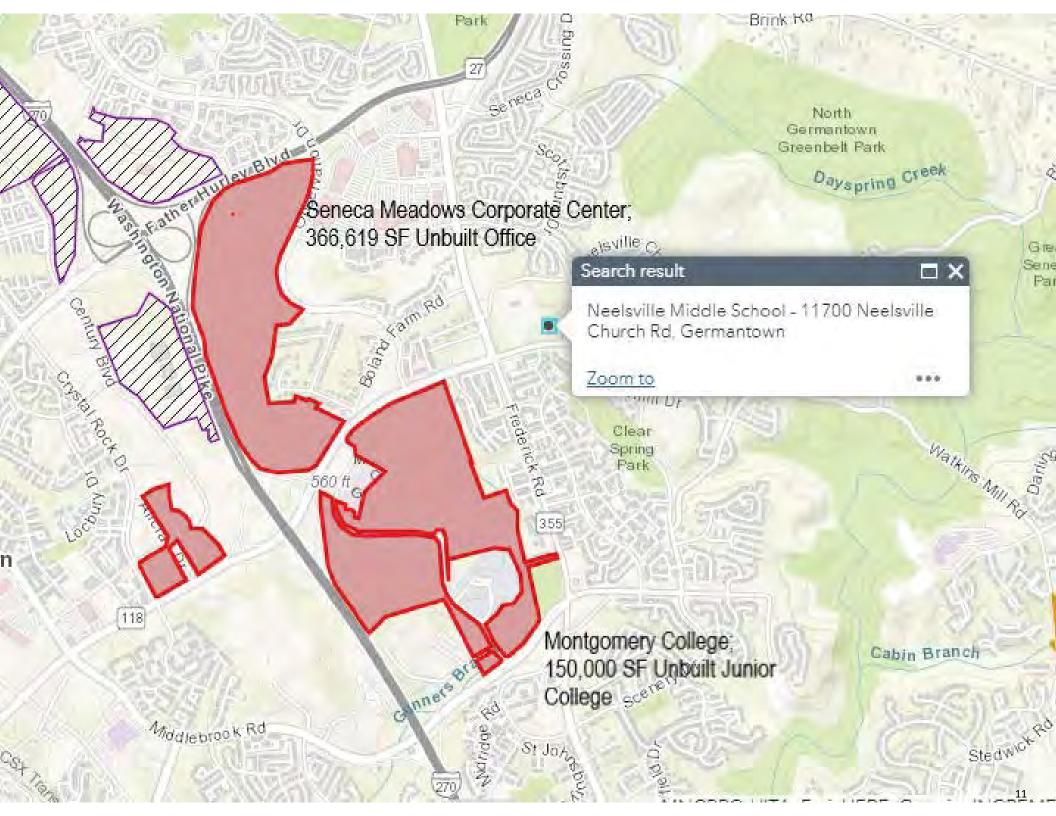
Trip Generation for Subject Site

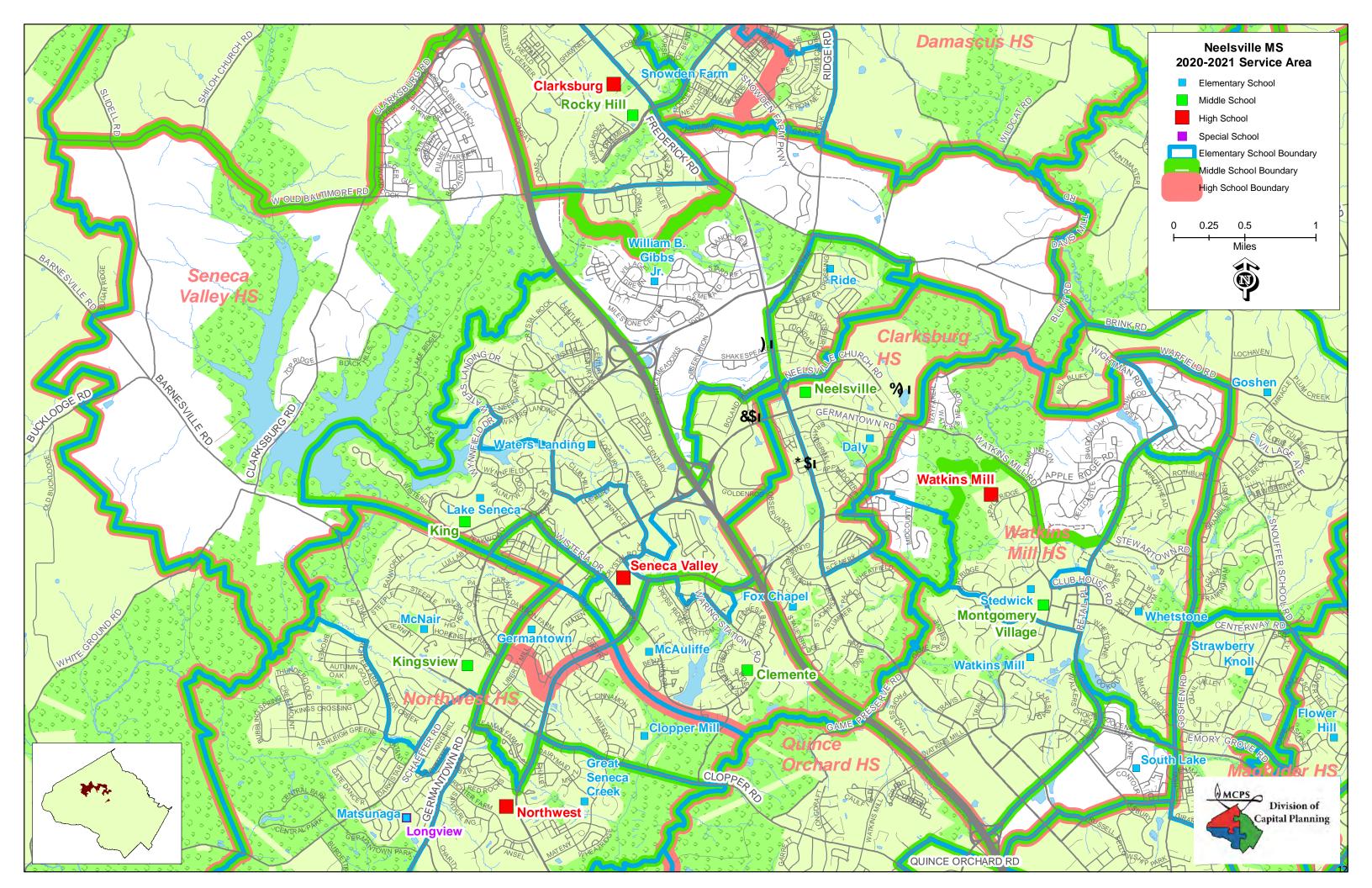
Land Use	e Size		AM	Peak H	lour	PM	Peak H	lour
	Э	iize	In	Out	Total	In	Out	Total
Existing								
MIddle School	956	Students	294	251	545	154	181	335
Proposed								
Middle School	1190	Students	366	312	678	192	225	417
Net New ITE Trips for Sub	Net New ITE Trips for Subject Site		72	61	133	38	44	82
Adjusted Vehicle Trips by Pc	olicy Area	a (91%)	66	56	121	17	40	75
Total Person Trips (Vehicle	Total Person Trips (Vehicle Trips / 69.5%)				174			108
Auto Passenger Trips	Auto Passenger Trips (19.4%)				40			25
Transit Trips (2.	Transit Trips (2.5%)				4			3
Non-Motorized Trips	s (4.2%)				8			5

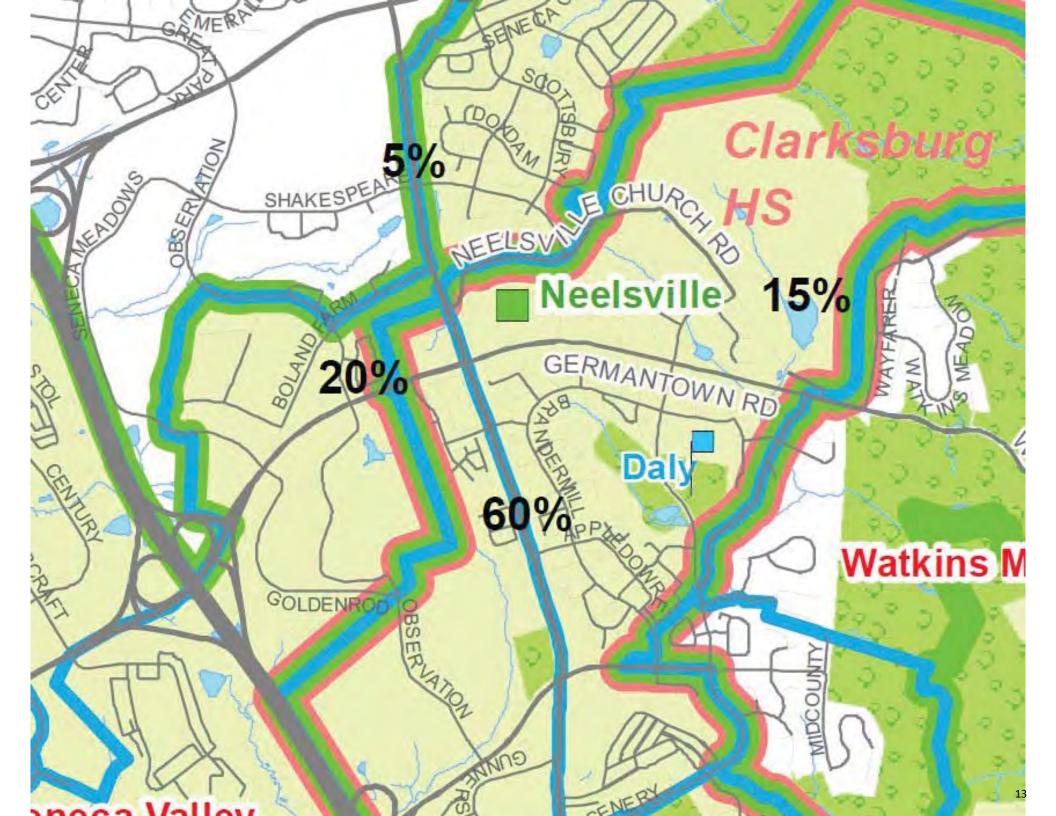


EXHIBIT 10 TRIP GENERATION FOR SUBJECT SITE

https://trafficgroup2-my.sharepoint.com/personal/cwilson_trafficgroup_com/Documents/Neelsville MS/updated Trips2.xlsx







From:	Freer, Walker
To:	Carl Wilson
Cc:	Van Alstyne, Chris
Subject:	RE: Neelsville MS Ped/Bike/Transit/Safety
Date:	Wednesday, September 1, 2021 5:08:56 PM
Attachments:	Revised LATR Scoping Form - Neelsville MS.pdf

Carl,

Neelsville Middle School is located in the Up-County, so I'm copying Chris on your request.

Thanks, Walker

Walker M. Freer

Transportation Planner Coordinator

Montgomery County Planning Department 2425 Reedie Drive, 13th Floor, Silver Spring, MD 20902 walker.freer@montgomeryplanning.org o: 301.495.4651



From: Carl Wilson <cwilson@trafficgroup.com>
Sent: Wednesday, September 1, 2021 5:00 PM
To: Freer, Walker <Walker.Freer@montgomeryplanning.org>
Subject: Neelsville MS Ped/Bike/Transit/Safety

[EXTERNAL EMAIL] Exercise caution when opening attachments, clicking links, or responding.

Hi Walker-

Since the initial scope of work was approved for Neelsville Middle School, the new Growth and Infrastructure Policy has gone into effect with the pedestrian, bike transit adequacy and safety components. To address the non-vehicular components, we have prepared an updated Scoping Agreement. Please review and let me know if you have any questions or need any additional information.

Thanks! Carl

Carl Wilson, Jr., P.E, PTOE, RSP Vice President



The Traffic Group, Inc. 9900 Franklin Square Dr. - Suite H Baltimore, MD 21236 T 410.931.6600 M 410.292.5545 F 410.931.6601 cwilson@trafficgroup.com www.trafficgroup.com

Merging Innovation and Excellence®





Local Area Transportation Review

TRANSPORTATION IMPACT STUDY SCOPE OF WORK AGREEMENT

Updated Winter 2021

Scoping Approval - Prior scoping <i>must be approved</i> by Department of Transportation the Applicant to obtain approv agency representatives. Gene form review. Substantially lar	relevant agencies, includ n, and the State Highway val, which is demonstrate erally, the Applicant should	ing the Admini d below d antici	e Planning istration (w via sign ipate a tu	Department, where releval ature or elect rnaround time	, the Montg nt). It is the ronic signal e of ten (10	omery County responsibility of ture of the relevant) business days for
Montgomery County Planr	ing Department					
	Signature:					ate:
Montgomery County Depa	rtment of Transportati	on				
Name (print): Signature:					D	ate:
State Highway Administra	tion (where relevant)					
Name (print): Signature:				D	ate:	
Applicant Contact Infor	mation					
Transportation Consultant (company, contact name, email, and phone number)	The Traffic Group, Inc. Carl Wilson / 410-292-5545 / cwilson@trafficgroup.com					
Name of Applicant / Developer	Montgomery County Public Schools					
Project Information				aphics, As Ne	eded	
Project Name (include plan no. if known)	Neelsville Middle School Renovation					
Project Location (include address if known)	11700 Neelsville Church Road					
Policy Area(s) (subdivision staging policy map)	Germantown East Master Plan(s) / Germantown Sector Plan Area(s) Sector Plan Area(s)					
Application Type(s)	Preliminary Plan Si		ite Plan	e Plan Sketch/Concept/Pr Preliminary (Option		□ Amendment
	Conditional Use (formerly special exception)		ocal Map ndment	□ APF at B Permit	uilding	XOther: Mandatory Ref.

Project Description & Previous Approvals (proposed land uses, zoning, no. of units, square footage, construction phasing, prior approvals and proposals, existing uses, site operations, year built, status of Adequate Public Facilities [APF], other relevant info)	Neelsville Middle School is proposed to be reconstructed. Student capacity will increase from 956 to 1190.				
1.Site Access (proposed access location(s), existing/adjacent/opposite curb cuts, interparcel connections, access configurations and restrictions, internal circulation, private roads, parking/loading areas, other relevant info)	Two points of access are proposed along Neelsville Church Road. Each will operate under stop control.				
2.Transportation Analysis Requirement	Generates <u>50 c</u> hour person tri bicycle, and/or reductions othe developments outside of the Policy Areas. Fi	rtation Impact Study or more total weekday peak ips (vehicular, transit, pedestrian) with no er than a credit for existing over 12 years old, <u>AND</u> is White Flint and White Oak ill out remainder of this de in transportation impact K.	 Transportation Study Exemption Statement Generates <u>49 or fewer</u> total weekday peak hour person trips (vehicular, transit, bicycle, and/or pedestrian) with no reductions other than a credit for existing developments over 12 years old, <u>OR</u> within White Flint and White Oak Policy Areas. 		
3.Project-based Transportation Demand Management Plan Required (see Chapter 42, Articles I and II)	X No	(In Transportation Management D [TMD])		Amend Existing TMAg	
4.Established Transportation Management District (TMD)?	X No	□ Yes TMD Name:			
Transportation Impact Study Assumptions Include Tables/ Graphics, As Needed					

5.Study Years / Phases	Existing Year: 2021		Phases / Build-out Year(s): 2024					
6.Study Periods	XAM X PM 🗆 Mid		d-day ⊏	-day 🗆 Saturday 🗆 Sunday 🗆 Other:			:	
7.Study Intersections (For projects generating 50 or more person trips, list all signalized & significant unsignalized intersections, and site driveways traffic counts must be collected within 12- months of completed and accepted application)	# of tiers of intersections to study (refer current LATR Guidelines): For the purpose of determining the number of tiers of study intersections, trip calculation for the subject site should also include nearby unbuilt properties in common ownership. No trip reductions should be taken in this calculation other than a credit for existing developments over 12 years old.							
	1) Previously Scor	oed - No	Changes		7)			
	2)			8)				
	3)			9)				
	4)				10)			
	5)				11)			
	6)				attach mo	ore rows if necessar	γ	
8.Trip Generation	Total Person Trips		e Trips* D Driver)	Trans	it Trips*	Walking Trips* (non-motorized + transit)	Bicycling Trips* (non-motorized)	
(clearly cite sources and methodology including use of average rates vs. equation; include trip generation for existing site, current approvals, proposed uses, and net changes)	186		129		5	14	9	
	* Only required if total peak hour person trips are 50 or more in either the AM or PM peak hour. Sum of all vehicle, transit, and non-motorized trips shall be the equivalent of total person trips. Use table at the end of the form to show all calculations and assumptions for mode breakout.							
9.Trip Reductions	Not Applicable							
(include justification and supporting documentation for internal capture, pass-by, diverted, Transportation Demand Management)								
10.Trip Distribution %								
(include a map of the proposed project in addition to a list or table)	Not applicable; previously approved.							
11.Pipeline Developments to be considered as background traffic	None							
(include name, plan #, land uses, and sizes for approved but unbuilt developments or concurrently pending applications; info can be obtained from the M-NCPPC Pipeline website: - website is updated quarterly)								

12.Pipeline Transportation Projects to be considered as background condition (fully funded for construction in County Capital Improvement Program, State Consolidated Transportation Program, developer projects, etc. within the next 6 years)	None
13. Vision Zero Statement	 Trigger: All LATR studies for a site that generates 50 or more weekday peak hour person trips must develop a Vision Zero Statement. Requirements: The Vision Zero Statement consists of four components: 1. Review High Injury Network segments: Document any segments on the High Injury Network (HIN) that are within a certain distance of the site frontage. 2. Assess proximate safety issues: Review the crash history for all segments and crossings within a certain distance of the site frontage. 3. Review traffic speeds: Conduct speed studies within a certain distance from the site frontage. 4. Describe site access: Address the safety issues identified in steps 1 through 3 and describe how site circulation promotes safety, outlining how safe access will be provided to the site.
	The applicant should refer to the <i>LATR Guidelines</i> to determine the applicable scoping distance pertaining to steps 1 through 3 and requirements pertaining to steps 1 through 4. There are no HNI segments near the subject site. US 29 is the closest, and it is almost 1 mile away.

Preliminary Mitigation Analysis		*Refer to the LATR Guidelines for details on how to mitigate				
14.Vehicular Analysis	 Vehicular Analysis Anticipated (Vehicular mitigation to be determined after study) YES 	TEST: The motor vehicle adequacy test will not be applied in "Red" policy areas and these areas will not be subject to LATR motor vehicle mitigation requirements. If the plan generates 50 or more weekday peak hour person trips, HCM Analysis is required to be provided for all intersections analyzed in studies for: 1) "Orange" policy areas, and 2) intersections with a CLV of more than 1,350 in "Yellow & Green" policy areas. 3) With the exception of intersections located within "Red" policy areas, CLV analysis required for all intersections regardless of policy area. CLV assessment and signal timing worksheets are to be included in the study appendix. MITIGATION: The applicant must mitigate its impact on vehicle delay or down to the applicable policy area standard, whichever is less.				

requirements of the LATR Gu If physical improvements	Idy will comply with all other idelines not listed on thisform. are proposed as mitigation , the <i>i</i> ll demonstrate feasibility with regi	
M-NCPPC Clarifications		Additional Assumptions & Special Circumstances for Discussion
Additional Analysis or Software Required	□ Queuing Analysis □ Signal Warrant Analysis □ Weaving/Merge Analysis	 □ Accident Analysis □ VISSIM □ Synchro □ CORSIM □ SIDRA □ Other
	distan	The applicant should refer to the <i>LATR Guidelines</i> to determine the applicable number of bus stop and scoping ce requirement.
17.Bus Transit Analysis	 Transit Mitigation Anticipated YES 	TEST: If the plan generates 50 or more peak hour person trips mitigation of surrounding transit conditions is required. Projects located within "Green" policy areas are exempt from the bus transit adequacy test. MITIGATION: Required to ensure that there are bus shelters outfitted with realtime traveler information displays and other standard amenities, along with a safe, efficient, and accessible path between the site and a bus stop, at a certain number of bus stops within a certain distance from the site.
16.Bicycle Analysis	 Bicycle Mitigation Anticipated YES 	TEST: If the plan generates 50 or more peak hour weekday person trips mitigation of surrounding bicycle conditions is required MITIGATION: Required to ensure a low Level of Traffic Stress (LTS-2) on all existing transportation rights-of-way within a certain distance of the site frontage ; Alternatively, the project may provide a master planned improvement that provides an equivalent improvement in the level of traffic stress for cyclists within a certain distance of the site frontage. The applicant should refer to the <i>LATR Guidelines</i> to determine the applicable scoping distance requirement.
15.Pedestrian Analysis	 Pedestrian Mitigation Anticipated YES 	 TEST: If the plan generates 50 or more weekday peak hour person trips, mitigation of surrounding pedestrian conditions is required. MITIGATION: Mitigation consists of three components: Pedestrian Level of Comfort (PLOC). Pedestrian system adequacy is defined by providing a "Somewhat Comfortable" or "Very Comfortable PLOC score on streets and intersections for roads classified as Primary Residential or higher within a certain walkshed from the site. Street Lighting. The applicant must evaluate existing street lighting based on MCDOT standards along roadways and paths from the development within a certain walkshed from the site frontage. Where standards are not met, the applicant must upgrade the street lighting to meet the applicable standard. ADA Compliance. The applicant must fix ADA noncompliance issues within a certain walkshed from the site frontage equivalent to half the walkshed specified in the required scoping distance.

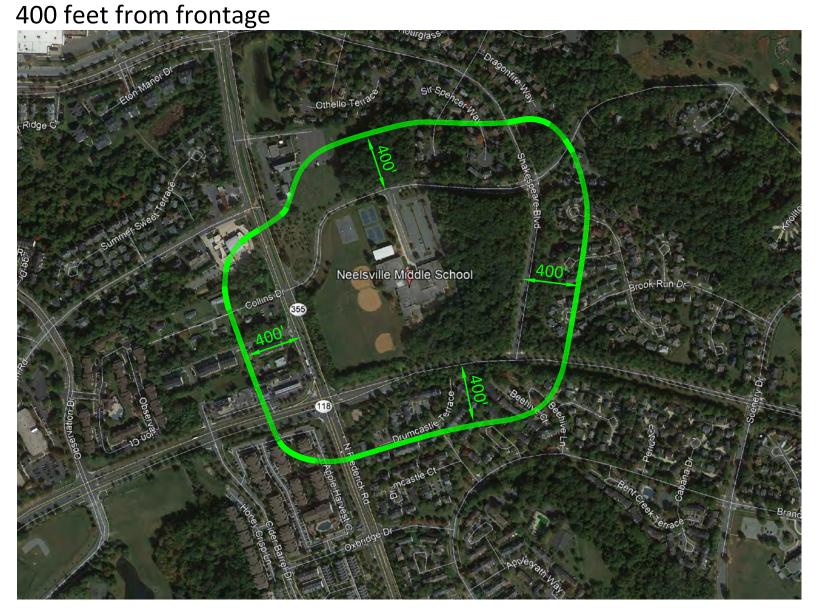
 to right-of-way and utility relocation (at a minimum). If the development proposal significantly changes after this transportation impact study scope has been agreed to, the Applicant will work with M-NCPPC staff to amend the scope to accurately reflect the new proposal. A receipt from MCDOT showing that the transportation impact study review fee has been paid will be provided to M-NCPPC DARC at the time the development application is submitted. Minimum of seven paper copies (more if near the County line or an incorporated City) and two PDF copies of the transportation impact study and appendices will be provided. 	Please refer to attached images showing the PLOC, ADA noncompliance, bikeshed, bus shelters, and speed study locations.
--	---

Table 4 – Trip Generation and Total for Subject Site

Land Use		Size	AM	Peak H	lour	PM	Peak H	our
Land Ose		5126	In	Out	Total	In	Out	Total
Existing Neelsville Middle School								
Middle School	956	Students	345	283	628	141	166	307
Proposed New Middle School								
Middle School	1,190	Students	423	347	770	174	205	379
Net New ITE T	rips for	Subject Site	78	64	142	33	39	72
Adjusted Vehicle Trips b	by Policy	Area (91%)	71	58	129	30	35	65
Total Person Trips (Ve	ehicle Tr	ips / 69.5%)			186			94
Auto Passenger Trips (Pe	erson Tr	ips x 23.2%)			43			22
Transit Trips (I	Person T	rips x 2.5%)			5			2
Non-Motorized Trips (I	Person T	rips x 4.8%)			9			5
Pedestrian Trips (Transit + No	on-Moto	orized Trips)			14			7

Pedestrian Adeuqancy:

Sidewalk, Streetlight, ADA compliance evaluations **Bicycle Adequacy:** Bicycle Level of Stress Evaluation 400 foot from frontage



Transit Adeuqancy:

Evaluate shelters and amenities within 1,000 feet from frontage



APPENDIX B

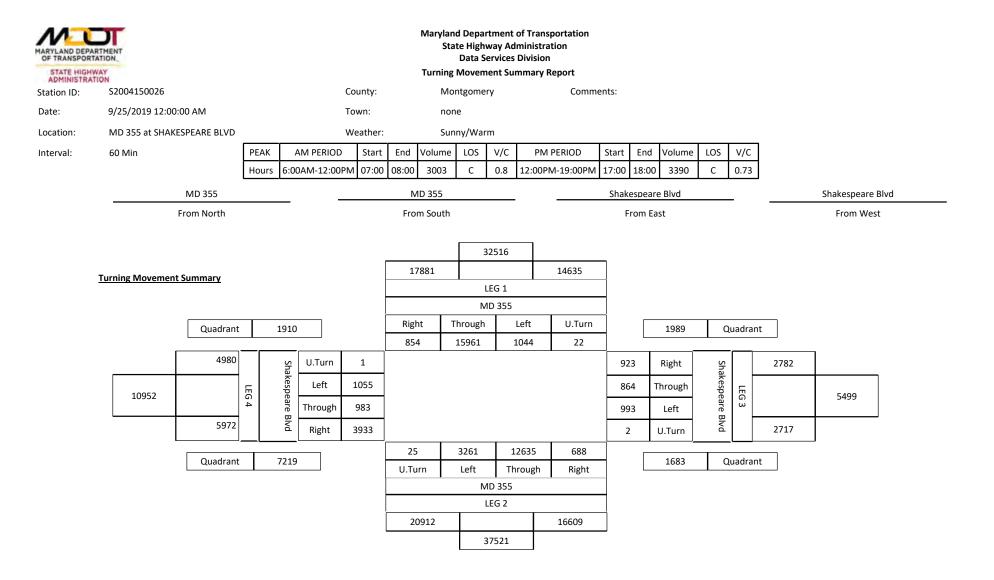
Intersection Turning Movement Counts

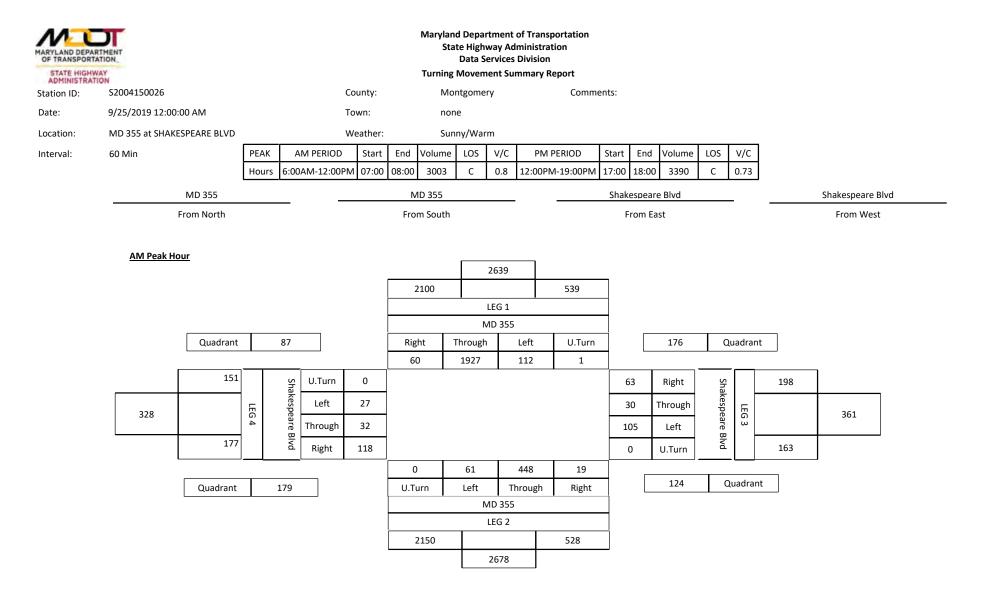
and Aerial Photographs



OF TRANS	DEPARTMENT PORTATION HIGHWAY STRATION 0: S20	004150026					County:		State Hi Data	ghway Ad a Services ement Sur	of Transport ministration Division mmary Repc	1	ts:								
Date:	9/2	25/2019 12	MA 00.00				Town:		none												
										10 100											
Location:			AKESPEARE	BLVD			Weather:	<u> </u>	Sunny/W						<u> </u>	_					
Interval:	60	Min			PEAK	AM PERIC			olume LO		PM PER		Start End		LOS V/C	-					
					Hours	6:00AM-12:0	0PM 07:00	08:00	3003 C	0.8	12:00PM-1	9:00PM 1	7:00 18:00	3390	C 0.7	3					
			MD 35	55		_		MD	355		_		Shakespeare	Blvd			Sha	ikespeare B	lvd		
			From No	orth				From S	outh				From Eas	st				From West			
Begin Hour	U.Turn	Left	Through	Right	тот	AL U.Turr	Left	Through	Right	TOTAL	U.Turn	Left	Through	Right	TOTAL	U.Turn	Left	Through	Right	TOTAL	GrandTotal
00:00	0	5	43		4	52	1 5	44	13	63	0	2	3	2	7	0	3	7	20	30	152
01:00	0	0			0		0 4					4	0		4	0			2	2	
02:00	0	1	19		0	20	0 4	22	2	28	s 0	1	1	0	2	0	0	0	3	3	53
03:00	1	3	42		0	46	0 5	10	0	15	0	7	2	2	11	0	2	2	5	9	81
04:00	0	4	102		6	112	0 12	46	3	61	. 0	25	5	4	34	0	2	0	15	17	224
05:00	0	6	384	3	38	428	0 30	104	6	140	0 0	42	7	17	66	0	6	3	32	41	675
06:00	1	44	1569	2	14 1	658	0 71	. 278	4	353	0	103	28	40	171	0	17	9	83	109	2291
07:00	1	112	1927	6	50 2	100	0 61	. 448	19	528	0	105	30	63	198	0	27	32	118	177	3003
08:00	1	96	1831	7	76 2	004	1 98	437	20	556	5 O	83	50	41	174	0	33	42	132	207	2941
09:00	1	51	1189	5	54 1	295	1 171	480	19	671	. 0	86	53	43	182	0	29	20	164	213	2361
10:00	3	33	779	4	14	859	1 199	483	27	710	0 0	57	51	35	143	0	46	41	211	298	2010
11:00	2	47	779	5	54	882	0 222	606	34	862	. 1	42	43	42	128	0	75	53	242	370	2242
12:00	2	53	772	f	59	896	2 240	704	38	984	0	40	43	51	134	0	76	63	275	414	2428
13:00	0	54	835				0 223		34	1040	-	42			148				271	396	
14:00	1	62	764		_		1 201		39	1058		44			128				303	445	
15:00	0	57	715		_	-	2 239			1448		41			157	0	-		271	426	
16:00	2	56	715				4 251			1664		43			212	0			270	452	
17:00	2		796		_	-	3 282			1760	1	54		_		0			269	478	
18:00	3	76	824				1 313		63	1552	-	59			242	0			288	478	
19:00 20:00	1	88	730		_		2 248		55	1199		37				1			310	460	
20:00	0		526 306		_	-	2 177 1 120				1	31 19				0			257 190	394 267	
22:00	0		188		_		0 57		29			20							190	175	
23:00	1	10	100		_		3 28					6				ļ			85	1/3	
TOTAL	22		15961	8		_	5 3261									1			3933	5972	
AMPEAK	1		1927			_	0 61					105				l			118	177	
PMPEAK	2		796			_	3 282					54							269	478	

OF TRANSP	9/25/2019 1	.2:00:00 AM HAKESPEARE BLVD	PEAK Hours 6		Count Town Weat PERIOD S 1-12:00PM 07	ner: art	End 08:00	Sta Turning Mo nor	nte H Dat Moventgo ne nny/V	lighway Ad ta Services vement Su omery Warm	minis Divis mmai	ion	Start 17:00	-		890		V/C 0.73	fkala	anaan Dhul		
		MD 355 From North		-				m South						From Ea		u				speare Blvd om West	_	
Begin Hour	School Children	Pedestrians	Bicycles	5	School Child	er	Ped	estrians		Bicycles	;	School Childr	en	Pedest	rians	;	Bicyc	les	School Children	Pedestrians	Bicycles	
00:00	0	1		0		0			0		0		0			0		(0 0	0		0
01:00	0	0		0		0			1		0		0			0		(0 0	0		0
02:00	0	0		0		0			0		0		0			0		(0 0	0		0
03:00	0	0		0		0			0		0		0			0		(0 0	0		0
04:00	0	0		0		0			1		0		0			0		(0 0	0		0
05:00	0	3		0		0			1		0		0			0			0 0	2		1
06:00	0	2		0		0			1		0		0			2			0 0	0		0
07:00	0	3		0		0			0		2		0			3						0
08:00 09:00	0	5		0		0			4 7		0		0			3		:	1 0 0 0	0		0
10:00	0	8		0		0			0		0		0			2				1		0
11:00	0	9		0		0			1		0		0			2			1 0	0		0
12:00	0	6		0		0			2		1		0			3			0 0	0		0
13:00	0	3		0		0			1		0		0			1		(0 0	1		0
14:00	0	8		0		0			2		0		0			3		(0 0	0		0
15:00	0	7		0		0			2		0		0			4		(0 0	0		1
16:00	0	9		0		0			1		0		0			2		(0 0	0		0
17:00	0	14		0		0			2		2		0			8		(0 0	5		1
18:00	0	8		0		0			3		1		0			6			0 0	2		0
19:00	0	7		0		0			3		0		0			3			0 0	1		0
20:00	0	12		0		0			2		1		0			1			0 0			0
21:00	0	4		0		0			1		0		0			0				1		0
22:00 23:00	0	2		0		0			1		0		0			0				2		0
Z3:00	0	115		0 0		0			1 7		0 7		0 0			2 48			2 0			0 3
AMPEAK	0	3		0		0			0		2		0			3						0
PMPEAK	0	14		0		0			2		2		0			8						1





MARYLAND DEPART OF TRANSPORTAT STATE HIGHWA ADMINISTRATIO	TION_							Sta	d Departn te Highwa Data Serv Movemer	y Admin vices Div	nistrat vision	ion									
Station ID:	S2004150026					County:		Мо	ntgomery			Comme	ents:								
Date:	9/25/2019 12:00:	00 AM				Town:		non	ie												
Location:	MD 355 at SHAKE	SPEARE BLVD				Weather:		Sun	ny/Warm												
Interval:	60 Min		PE/	AK A	AM PERIOD) Start	End	Volume	LOS	//C	PM P	PERIOD	Start	End	Volume	LOS	V/	C			
			Ηοι	urs 6:00)AM-12:00	PM 07:00	08:00	3003	С	0.8 12	:00PN	1-19:00PM	17:00	18:00	3390	С	0.7	73			
							М	ID 355					Shake	espear	e Blvd		_			Shakespeare E	Blvd
	l	From North					Fro	m South					Fr	rom Ea	st					From West	:
									25	546]										
	PM Peak Ho	our					9	916				1630									
									LE	G 1	-										
									MD	355											
		Quadrant		162			Rig		Through	Lef		U.Turn	_		163	3	Q	uadrant			
	1	424	. —		<u> </u>	1	43	3	796	75	b	2			,					Ъ	
		421		Shak	U.Turn	0							86	6	Right	Shak		2	236		1
	899		LEG	Shakespeare Blvd	Left	119							90	6 [.]	Through	Shakespeare Blvd				453	
			4	are B	Through	90							54	4	Left	are E	u u	<u>،</u>			
		478		livd	Right	269							0)	U.Turn	lvd		2	217		
	·		3		282	142	23	52					_!			_					
		Quadrant		554			U.Tı	urn	Left	Throu	ugh	Right			106	5	Q	uadrant			
										355			_								
										G 2	-										
								1122				1760									
									28	382											



TURNING MOVEMENT COUNT



Day Туре	Data Range	e					Location						
1: Weekday (Tu-Th)	2019							MD 355 at N	leelsville Ch	urch Rd			
													T
		Collins Dr E	3	Neelsv	ville Church I	Rd WB		MD 355 NB			MD 355 SB		
	EB Left	<u>EB Thru</u>	EB Right	WB Left	WB Thru	WB Right	NB Left	<u>NB Thru</u>	NB Right	SB Left	<u>SB Thru</u>	SB Right	
Day Part													Total
07: 6am (6am-7am)	-	-	17	16	3	2	-	253	1	9	1,454	7	1,762
<mark>08: 7am (7am-8am)</mark>	-	-	2	43	-	6	-	632	158	150	2,095	11	3,097
09: 8am (8am-9am)	9	-	5	21	-	18	8	403	102	84	1,926	19	2,595
15: 2pm (2pm-3pm)	8	-	4	21	-	13	-	980	48	15	909	-	1,998
16: 3pm (3pm-4pm)	-	-	17	131	-	94	20	1,269	23	32	812	9	2,407
17: 4pm (4pm-5pm)	6	-	-	29	-	23	14	1,615	25	15	854	18	2,599



TURNING MOVEMENT COUNT



Day Type	Data Range	2					Location						
1: Weekday (Tu-Th)	2019	March	April	September	October		MD 355	at Germant	own Rd				
	Ger	mantown R	d EB	Gerr	mantown Rd	WB		MD 355 NB			MD 355 SB		
	EB Left	<u>EB Thru</u>	EB Right	WB Left	WB Thru	WB Right	NB Left	<u>NB Thru</u>	NB Right	SB Left	<u>SB Thru</u>	SB Right	
Day Part													Total
07: 6am (6am-7am)	42	140	113	39	136	23	61	190	16	26	1,221	240	2,247
08: 7am (7am-8am)	86	205	245	43	402	76	194	600	29	102	1,535	593	4,110
09: 8am (8am-9am)	138	196	229	62	313	40	155	317	27	68	1,437	516	3,498
15: 2pm (2pm-3pm)	295	215	168	18	182	84	165	640	32	89	661	226	2,775
16: 3pm (3pm-4pm)	373	302	189	36	248	103	204	845	39	92	671	249	3,351
17: 4pm (4pm-5pm)	445	301	214	53	307	124	229	1,074	48	97	634	198	3,724

Bike Counts Report (15 Min Interval)

Intersection: Frederick Rd (MD 355) at Germantown Rd

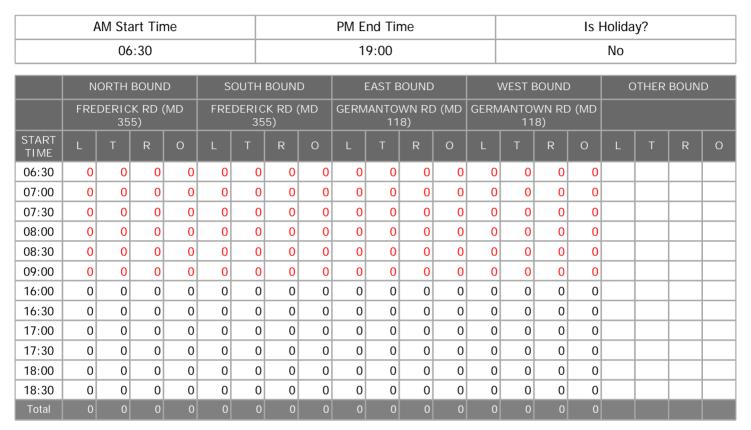
Count Date: Wednesday, 4/10/2019

AM	l Start	Time		Р	M End	d Time	5		Is H	oliday	?		AM	Peak I	Hour		PI	N Pea	k Hou	r
	06:30	0			19:	00				No				:				17:	30	
	N	ORTH	BOUN	D	S	OUTH	BOUNI	D		EAST B	OUND		\	VEST E	BOUND		C	THER	BOUN	D
	FREI	DERIC 35	K RD (5)	(MD	FRE	DERIC 35	K RD (5)	(MD	GERM	IANTO) 11	WN RD 8)	(MD	GERM	IANTO 11) (MD				
START TIME	L	т	R	0	L	Т	R	Ο	L	т	R	0	L	Т	R	0	L	Т	R	0
06:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
06:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
07:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
07:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
07:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
07:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
08:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
08:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
08:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
08:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
09:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
09:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
16:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
16:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
16:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
16:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
17:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
17:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
17:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
17:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
18:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
18:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
18:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
18:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				

Bike Counts Report (30 Min Interval)

Intersection: Frederick Rd (MD 355) at Germantown Rd

Count Date: Wednesday, 4/10/2019

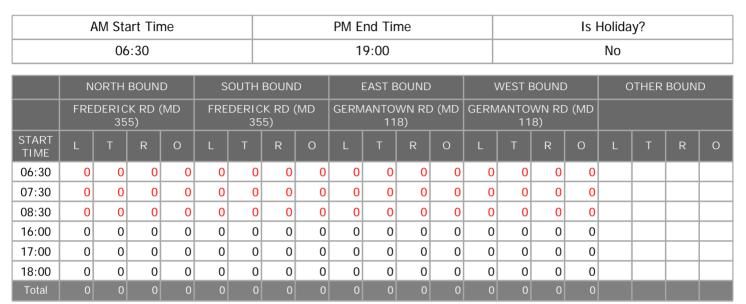




Bike Counts Report (60 Min Interval)

Intersection: Frederick Rd (MD 355) at Germantown Rd

Count Date: Wednesday, 4/10/2019





Pedestrian Counts Report (15 Min Interval)

Intersection: Frederick Rd (MD 355) at Germantown Rd

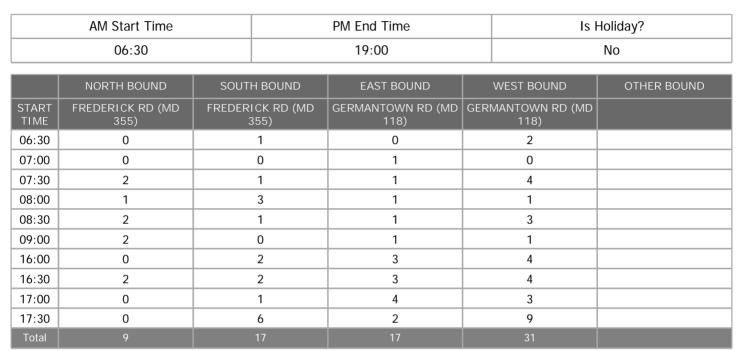
Count Date: Wednesday, 4/10/2019

AM	l Start Time	F	PM End Time		Is Holiday?		AM Peak Hour	PM Peak Hour
	06:30		19:00		No		07:30	17:15
	NORTH BOUN		SOUTH BOUND		EAST BOUND		WEST BOUND	OTHER BOUND
START TIME	FREDERICK RD 355)	(MD	FREDERICK RD (1 355)	ИD	GERMANTOWN RD (I 118)	MD	GERMANTOWN RD (MD 118)	
06:30	0		1		0		2	
06:45	0		0		0		0	
07:00	0		0		0		0	
07:15	0		0		1		0	
07:30	2		0		0		3	
07:45	0		1		1		1	
08:00	1		1		1		1	
08:15	0		2		0		0	
08:30	0		0		0		1	
08:45	2		1		1		2	
09:00	1		0		1		0	
09:15	1		0		0		1	
15:00	0		0		0		0	
15:15	2		0		3		2	
15:30	0		1		0		0	
15:45	0		0		0		1	
16:00	0		0		0		2	
16:15	0		2		3		2	
16:30	2		2		3		4	
16:45	0		0		0		0	
17:00	0		0		2		1	
17:15	0		1		2		2	
17:30	0		3		1		3	
17:45	0		3		1		6	
Total	11		18		20		34	

Pedestrian Counts Report (30 Min Interval)

Intersection: Frederick Rd (MD 355) at Germantown Rd

Count Date: Wednesday, 4/10/2019

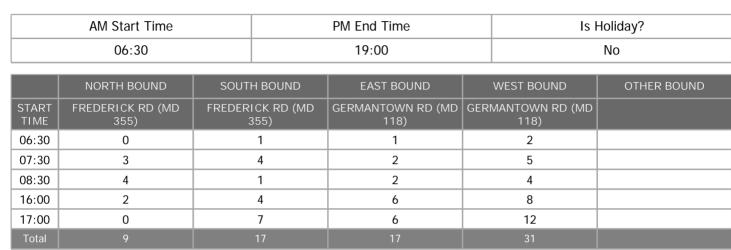




Pedestrian Counts Report (60 Min Interval)

Intersection: Frederick Rd (MD 355) at Germantown Rd

Count Date: Wednesday, 4/10/2019





TURNING MOVEMENT COUNT



Day Type	Data Range	9					Location						
1: Weekday (Tu-Th)	2019	Mar	Apr	Sep	Oct			Germantow	n Rd at Shal	kespeare Dr			
	Ger	mantown R	d EB	Geri	mantown Rd	WB				Shak	kespeare Blv	vd SB	
	EB Left	<u>EB Thru</u>	EB Right	WB Left	WB Thru	WB Right	NB Left	<u>NB Thru</u>	NB Right	SB Left	<u>SB Thru</u>	SB Right	
Day Part													Total
07: 6am (6am-7am)	9	176	-	-	156	47	-	-	-	73	-	43	504
08: 7am (7am-8am)	5	317	-	-	408	176	-	-	-	140	-	132	1,178
09: 8am (8am-9am)	19	291	-	-	325	110	-	-	-	120	-	105	970
15: 2pm (2pm-3pm)	31	302	-	-	273	84	-	-	-	56	-	16	762
16: 3pm (3pm-4pm)	71	363	-	-	359	123	-	-	-	209	-	33	1,158
17: 4pm (4pm-5pm)	93	362	-	-	450	147	-	-	-	75	-	34	1,161







Location ID: B150106

Location: GERMANTOWN RD-.10 MI E OF MD355

County: Montgomery

Date Range: 02/11/2020 **to** 02/12/2020

				Week Of: 02	/09/2020 Di	rection:EastB	ound			
Begin Hour	02/09 Sun	02/10 Mon	02/11 Tue	02/12 Wed	02/13 Thu	02/14 Fri	02/15 Sat	DAILY AVG	WEEKDAY AVG	WEEKEND AVG
0:00	0	0	39	59	0	0	0	49	49	0
1:00	0	0	25	21	0	0	0	23	23	0
2:00	0	0	20	10	0	0	0	15	15	0
3:00	0	0	17	16	0	0	0	17	17	0
4:00	0	0	16	24	0	0	0	20	20	0
5:00	0	0	65	61	0	0	0	63	63	0
6:00	0	0	151	189	0	0	0	170	170	0
7:00	0	0	330	324	0	0	0	327	327	0
8:00	0	0	377	351	0	0	0	364	364	0
9:00	0	0	285	324	0	0	0	305	305	0
10:00	0	0	252	300	0	0	0	276	276	0
11:00	0	0	279	307	0	0	0	293	293	0
12:00	0	0	333	367	0	0	0	350	350	0
13:00	0	0	316	359	0	0	0	338	338	0
14:00	0	0	402	473	0	0	0	438	438	0
15:00	0	0	544	508	0	0	0	526	526	0
16:00	0	0	606	593	0	0	0	600	600	0
17:00	0	0	691	707	0	0	0	699	699	0
18:00	0	0	598	550	0	0	0	574	574	0
19:00	0	0	421	441	0	0	0	431	431	0
20:00	0	0	352	330	0	0	0	341	341	0
21:00	0	0	278	318	0	0	0	298	298	0
22:00	0	0	157	154	0	0	0	156	156	0
23:00	0	0	99	87	0	0	0	93	93	0
TOTAL	0	0	6,653	6,873	0	0	0	6,763	6,763	0
AM Peak Hour	0:00	0:00	8:00	12:00	0:00	0:00	0:00			
6PM-12PM Volume	0	0	377	367	0	0	0			
PM Peak Hour	0:00	0:00	17:00	17:00	0:00	0:00	0:00			
PM Peak Volume	0	0	691	707	0	0	0			



Location ID: B150106

Location: GERMANTOWN RD-.10 MI E OF MD355

County: Montgomery

Date Range: 02/11/2020 **to** 02/12/2020

Week Of: 02/09/2020 Direction:WestBound											
Begin Hour	02/09 Sun	02/10 Mon	02/11 Tue	02/12 Wed	02/13 Thu	02/14 Fri	02/15 Sat	DAILY AVG	WEEKDAY AVG	WEEKEND AVG	
0:00	0	0	25	31	0	0	0	28	28	0	
1:00	0	0	14	12	0	0	0	13	13	0	
2:00	0	0	13	12	0	0	0	13	13	0	
3:00	0	0	13	10	0	0	0	12	12	0	
4:00	0	0	49	50	0	0	0	50	50	0	
5:00	0	0	118	133	0	0	0	126	126	0	
6:00	0	0	265	265	0	0	0	265	265	0	
7:00	0	0	490	515	0	0	0	503	503	0	
8:00	0	0	551	573	0	0	0	562	562	0	
9:00	0	0	442	482	0	0	0	462	462	0	
10:00	0	0	328	336	0	0	0	332	332	0	
11:00	0	0	284	304	0	0	0	294	294	0	
12:00	0	0	285	341	0	0	0	313	313	0	
13:00	0	0	319	360	0	0	0	340	340	0	
14:00	0	0	363	351	0	0	0	357	357	0	
15:00	0	0	477	504	0	0	0	491	491	0	
16:00	0	0	567	556	0	0	0	562	562	0	
17:00	0	0	589	549	0	0	0	569	569	0	
18:00	0	0	476	465	0	0	0	471	471	0	
19:00	0	0	339	327	0	0	0	333	333	0	
20:00	0	0	270	276	0	0	0	273	273	0	
21:00	0	0	146	147	0	0	0	147	147	0	
22:00	0	0	127	104	0	0	0	116	116	0	
23:00	0	0	59	50	0	0	0	55	55	0	
TOTAL	0	0	6,609	6,753	0	0	0	6,681	6,681	0	
AM Peak Hour	0:00	0:00	8:00	8:00	0:00	0:00	0:00				
6PM-12PM Volume	0	0	551	573	0	0	0				
PM Peak Hour	0:00	0:00	17:00	16:00	0:00	0:00	0:00				
PM Peak Volume	0	0	589	556	0	0	0				



Location ID: B150106

Location: GERMANTOWN RD-.10 MI E OF MD355

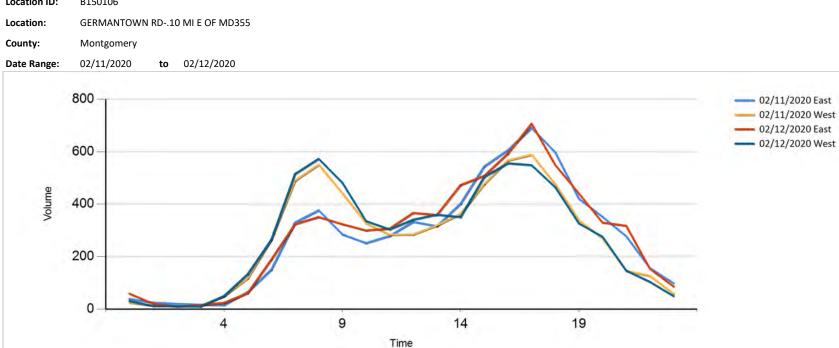
County: Montgomery

Date Range: 02/11/2020 **to** 02/12/2020

*** Summary Of Total Report ***											
Begin Hour	SUN	MON	TUE	WED	THU	FRI	SAT	DAILY AVG	WEEKDAY AVG	WEEKEND AVG	
0:00	0	0	64	90	0	0	0	77	77	0	
1:00	0	0	39	33	0	0	0	36	36	0	
2:00	0	0	33	22	0	0	0	28	28	0	
3:00	0	0	30	26	0	0	0	28	28	0	
4:00	0	0	65	74	0	0	0	70	70	0	
5:00	0	0	183	194	0	0	0	189	189	0	
6:00	0	0	416	454	0	0	0	435	435	0	
7:00	0	0	820	839	0	0	0	830	830	0	
8:00	0	0	928	924	0	0	0	926	926	0	
9:00	0	0	727	806	0	0	0	767	767	0	
10:00	0	0	580	636	0	0	0	608	608	0	
11:00	0	0	563	611	0	0	0	587	587	0	
12:00	0	0	618	708	0	0	0	663	663	0	
13:00	0	0	635	719	0	0	0	677	677	0	
14:00	0	0	765	824	0	0	0	795	795	0	
15:00	0	0	1,021	1,012	0	0	0	1,017	1,017	0	
16:00	0	0	1,173	1,149	0	0	0	1,161	1,161	0	
17:00	0	0	1,280	1,256	0	0	0	1,268	1,268	0	
18:00	0	0	1,074	1,015	0	0	0	1,045	1,045	0	
19:00	0	0	760	768	0	0	0	764	764	0	
20:00	0	0	622	606	0	0	0	614	614	0	
21:00	0	0	424	465	0	0	0	445	445	0	
22:00	0	0	284	258	0	0	0	271	271	0	
23:00	0	0	158	137	0	0	0	148	148	0	
TOTAL	0	0	13,262	13,626	0	0	0	13,444	13,444	0	
AM Peak Hour	0:00	0:00	8:00	8:00	0:00	0:00	0:00				
6PM-12PM Volume	0	0	928	924	0	0	0				
PM Peak Hour	0:00	0:00	17:00	17:00	0:00	0:00	0:00				
PM Peak Volume	0	0	1,280	1,256	0	0	0				



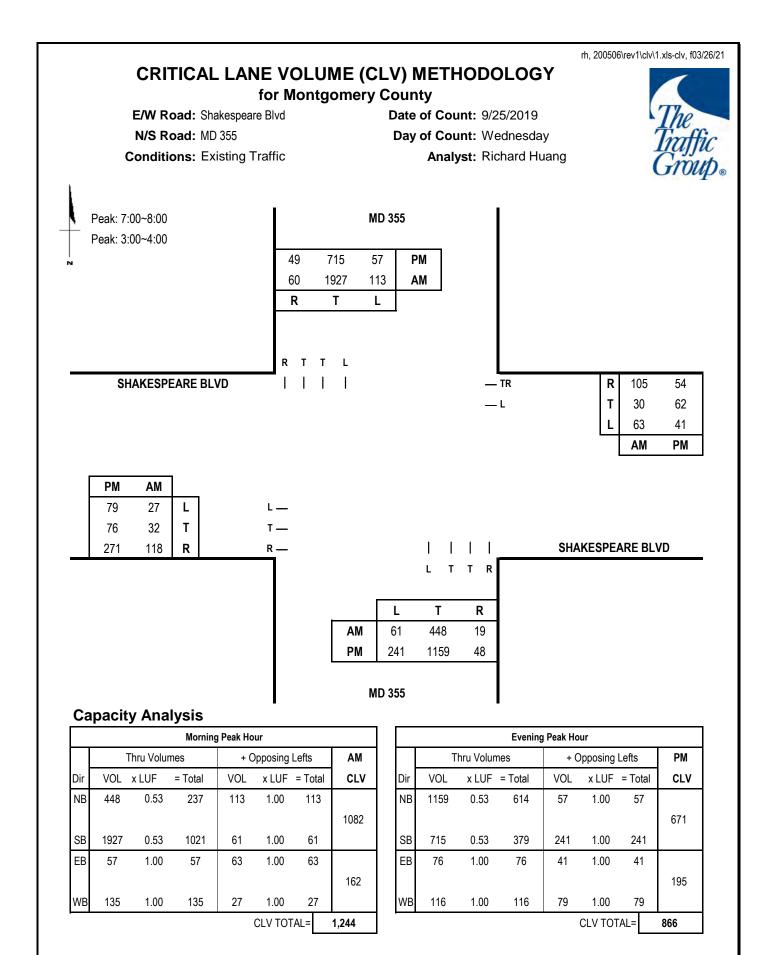
Location ID: B150106



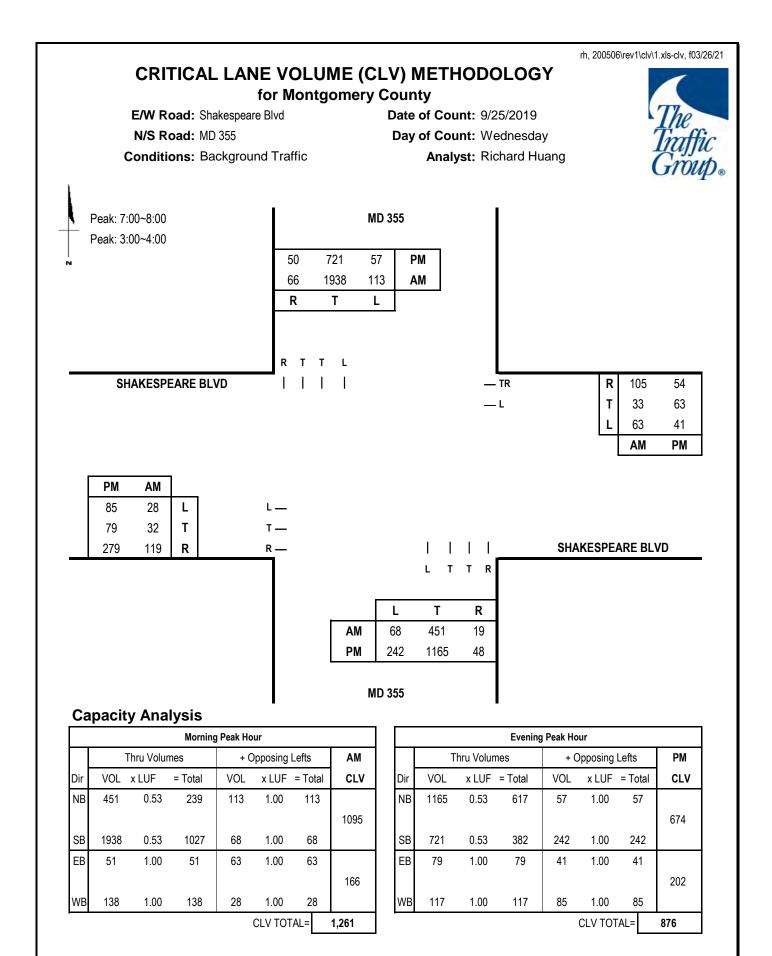
APPENDIX C

Intersection Capacity Analysis Worksheets

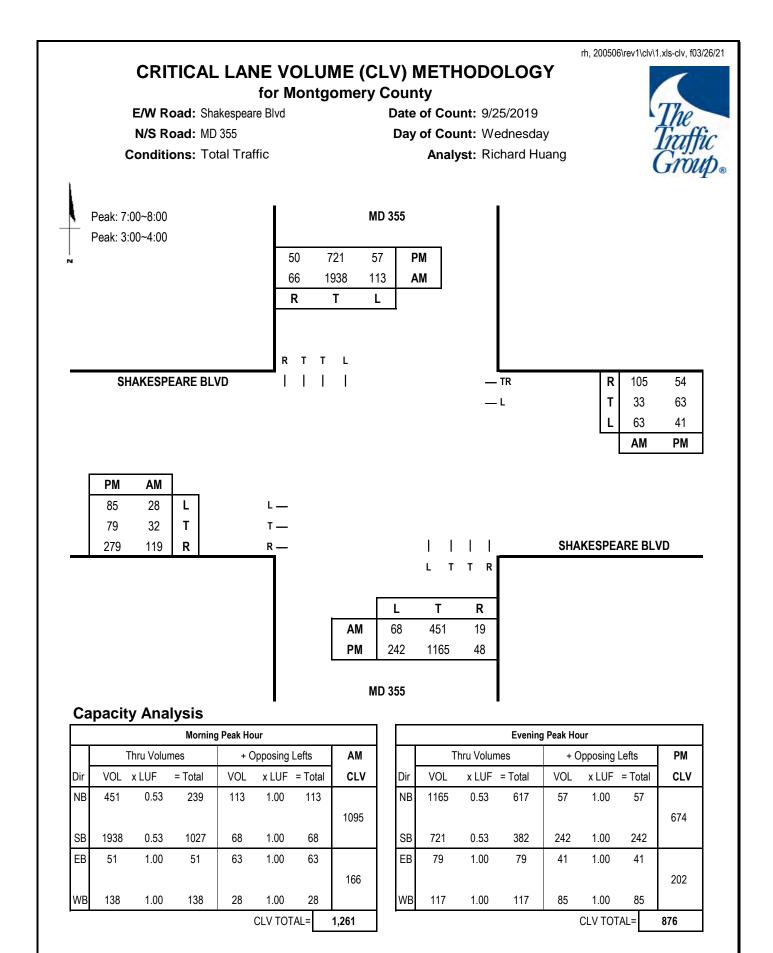




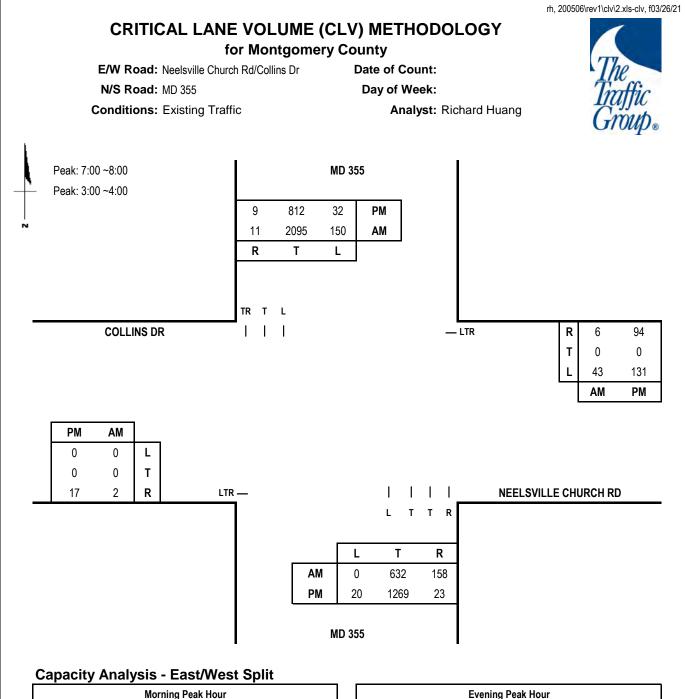
Scenario ID - EXIST1



Scenario ID - BACK11



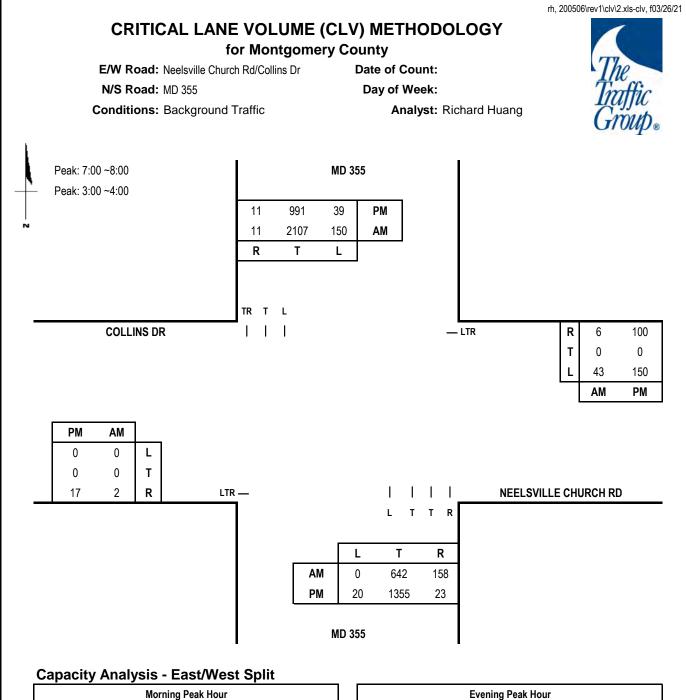
Scenario ID - TOT11



worning reak nour											
		Thru Volu	mes	+ (AM						
Dir	VOL	x LUF	= Total	VOL	x LUF	= Tota	CLV				
EB	2	1.00	2				2				
WB	49	1.00	49				49				
NB	632	0.53	335	150	1.00	150	1116				
SB	2106	0.53	1116	0	1.00	0					
	CLV TOTAL=						1,167				

	Evening Peak Hour									
	Т	hru Volun	nes	+ (Opposing L	_efts	PM			
Dir	VOL	x LUF	= Total	VOL	x LUF	= Total	CLV			
EB	17	1.00	17				17			
WB	225	1.00	225				225			
NB	1269	0.53	673	32	1.00	32				
							705			
SB	821	0.53	435	20	1.00	20				
					CLV TOT	AL=	947			

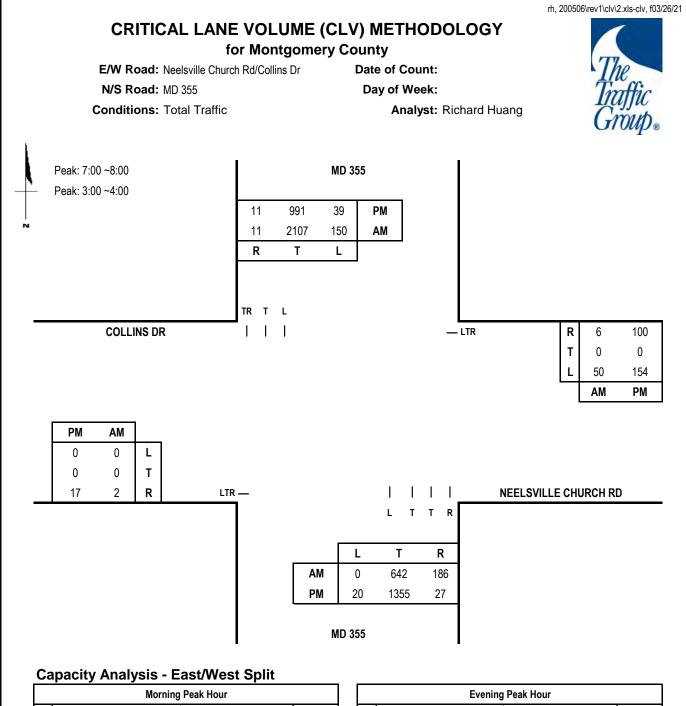
Scenario ID - EXIST2



Thru Volumes + Opposing Lefts AM Dir VOL x LUF = Total VOL x LUF = Total CLV EΒ 2 1.00 2 2 WB 49 1.00 49 49 NB 642 0.53 340 150 1.00 150 1123 SB 2118 0.53 1123 0 1.00 0 CLV TOTAL= 1,174

	Evening Peak Hour									
	Т	hru Volur	nes	+ (Lefts	PM				
Dir	VOL	x LUF	= Total	VOL	x LUF	= Total	CLV			
EB	17	1.00	17				17			
WB	250	1.00	250				250			
NB	1355	0.53	718	39	1.00	39				
							757			
SB	1002	0.53	531	20	1.00	20				
					CLV TO	TAL=	1,024			

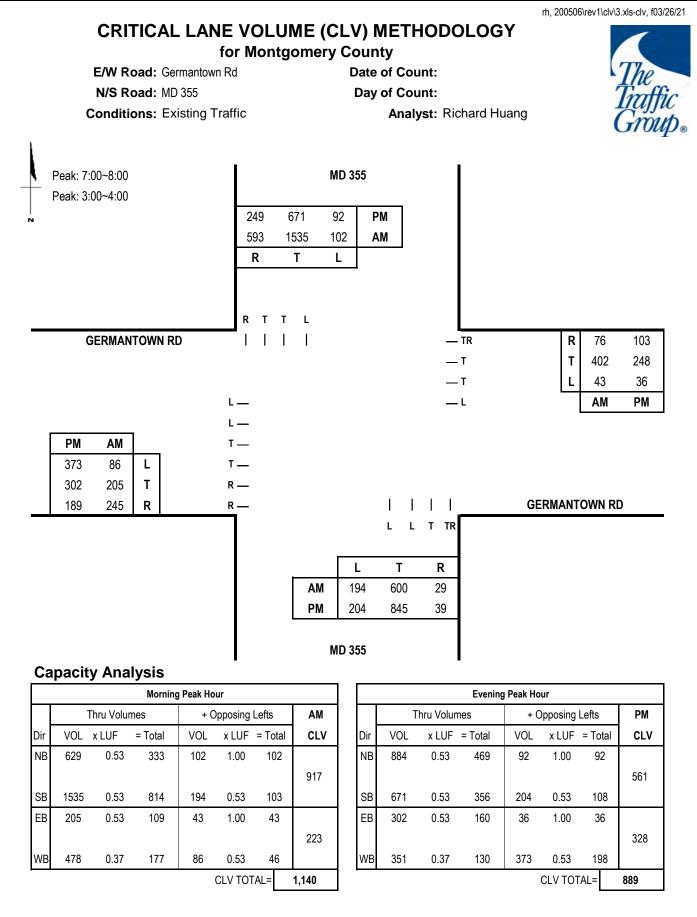
Scenario ID - BACK12



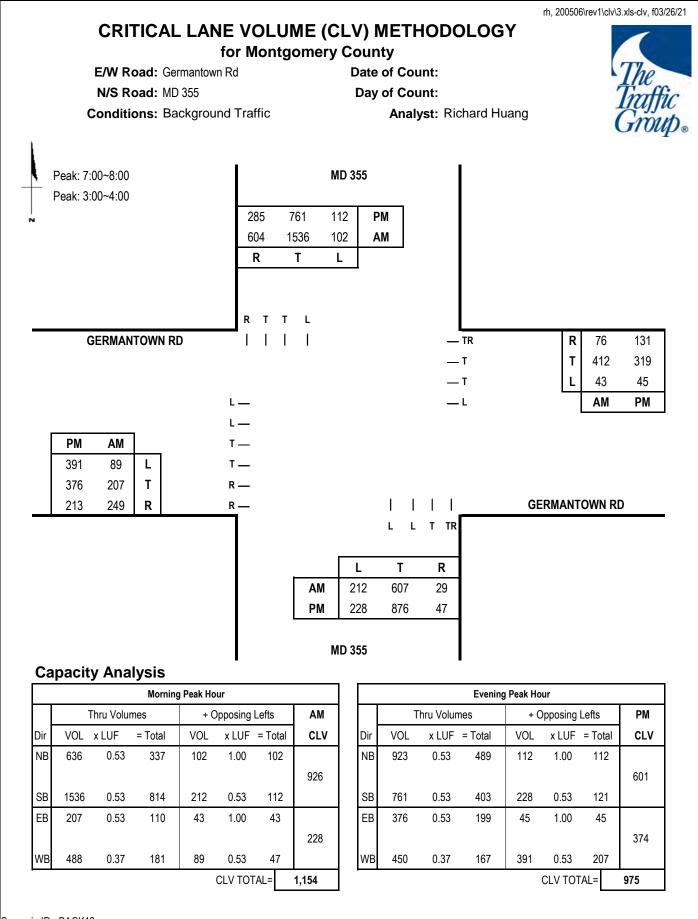
		Thru Volu	mor	. (Opposing		
			1100	+ (AM		
Dir	VOL	x LUF	= Total	VOL	x LUF	= Total	CLV
EB	2	1.00	2				2
WB	56	1.00	56				56
NB	642	0.53	340	150	1.00	150	1123
SB	2118	0.53	1123	0	1.00	0	
	CLV TOTAL=						

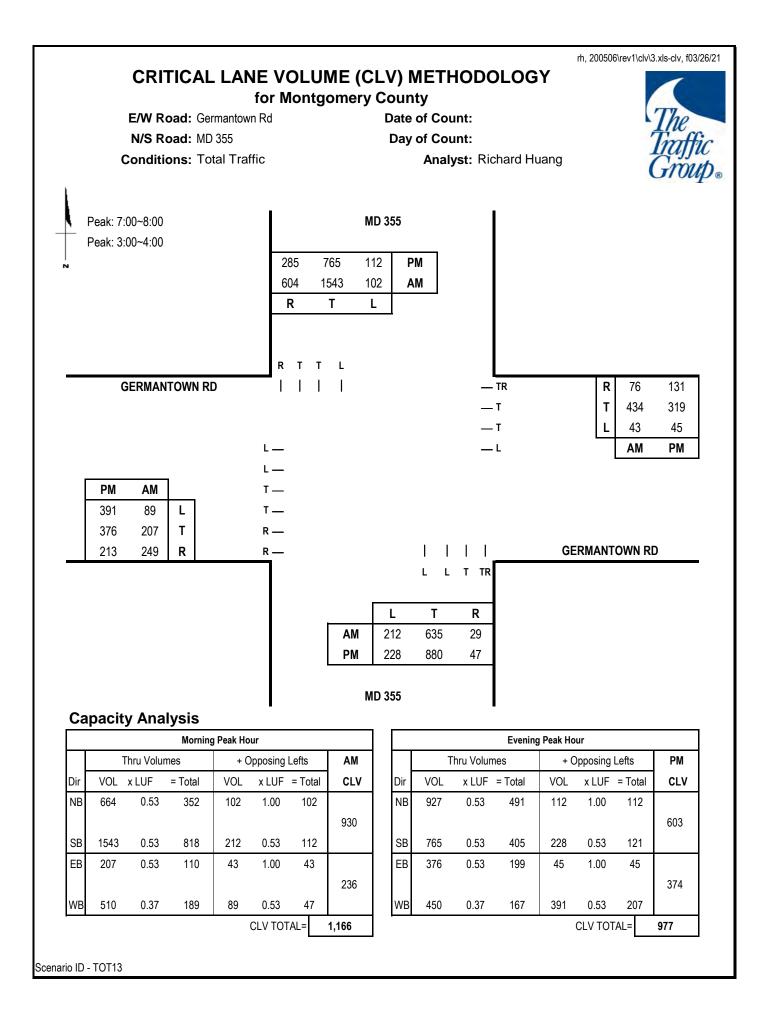
	Evening Peak Hour									
	Т	hru Volur	nes	+ (Opposing L	_efts	PM			
Dir	VOL	x LUF	= Total	VOL	x LUF	= Total	CLV			
EB	17	1.00	17				17			
WB	254	1.00	254				254			
NB	1355	0.53	718	39	1.00	39				
							757			
SB	1002	0.53	531	20	1.00	20				
					CLV TOT	AL=	1,028			

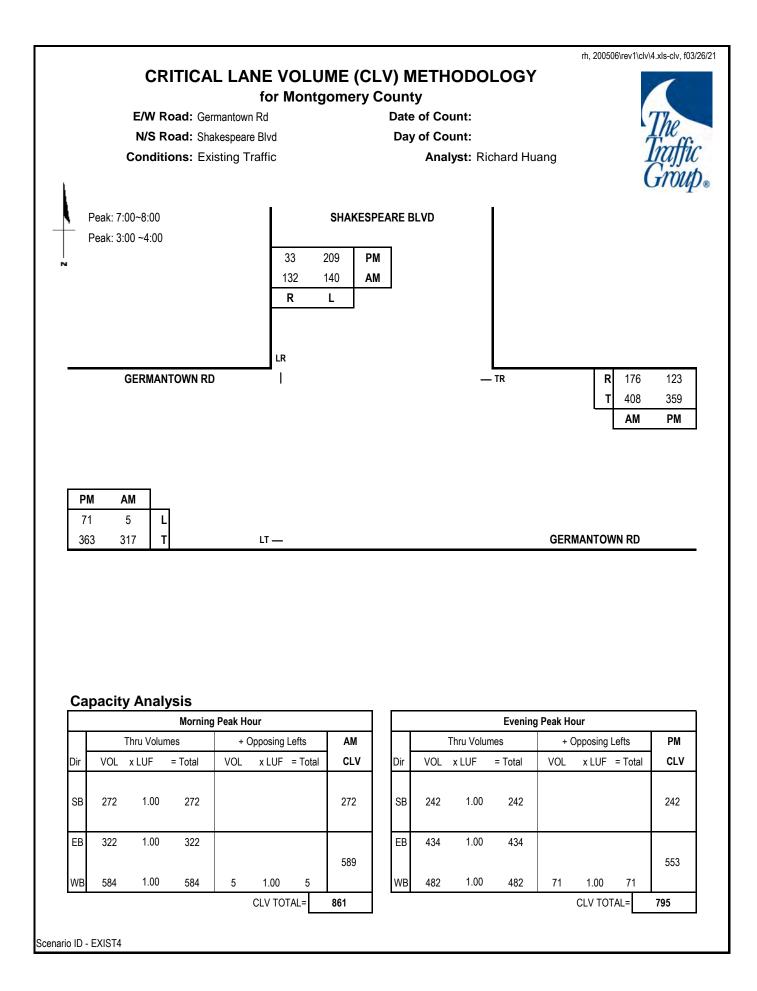
Scenario ID - TOT12

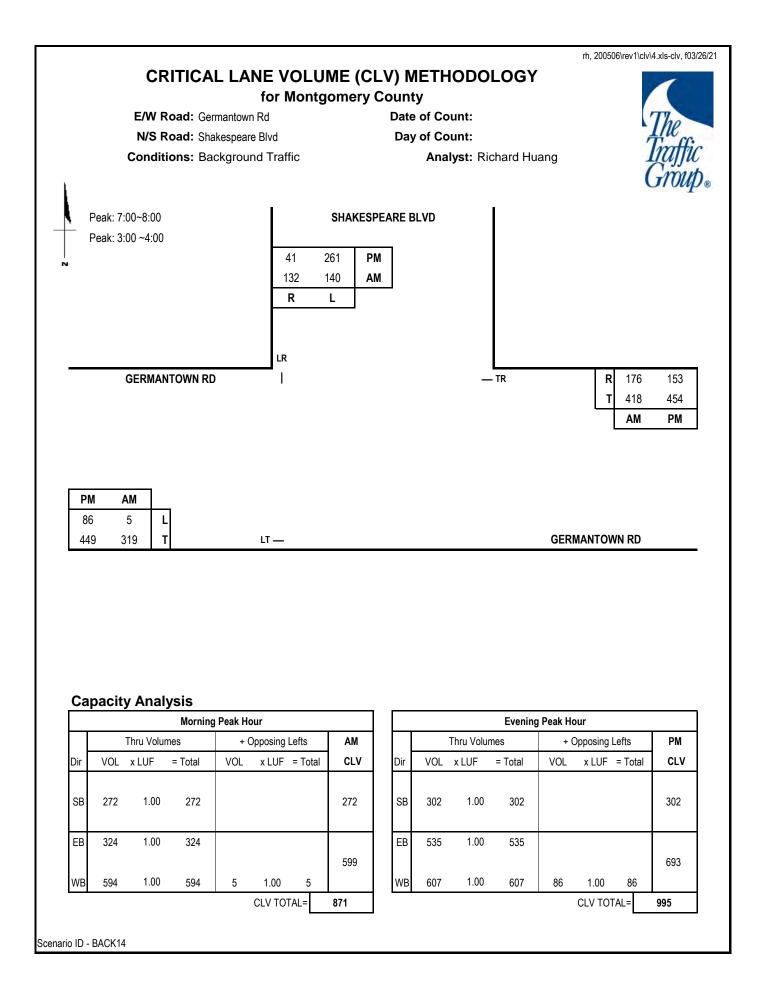


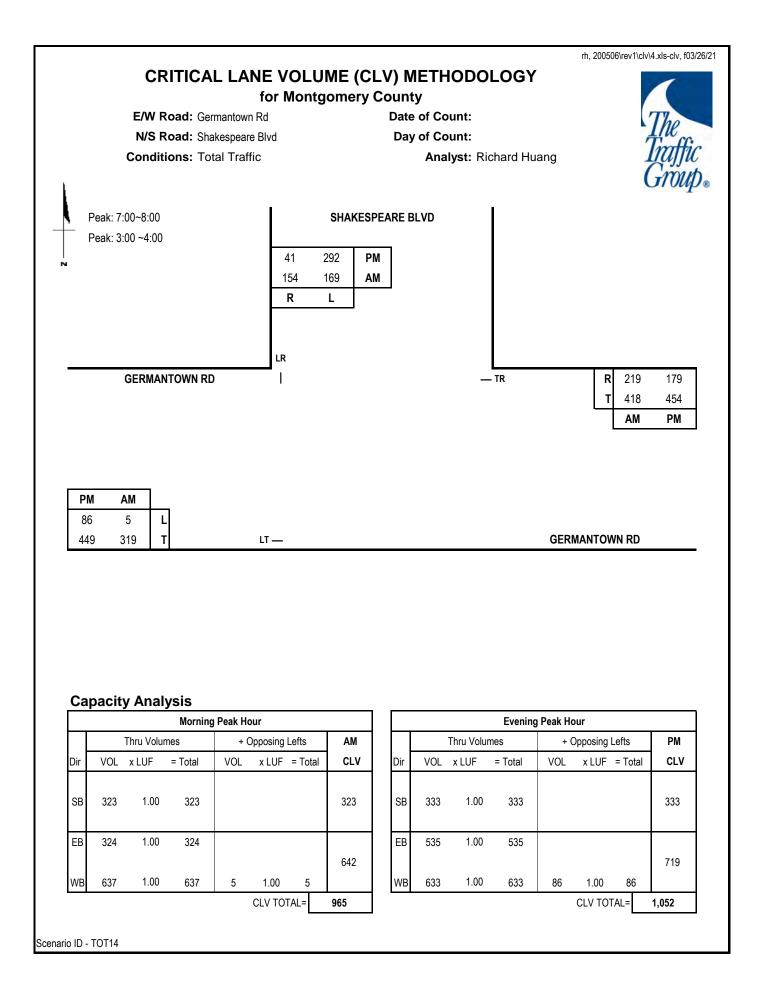
Scenario ID - EXIST3

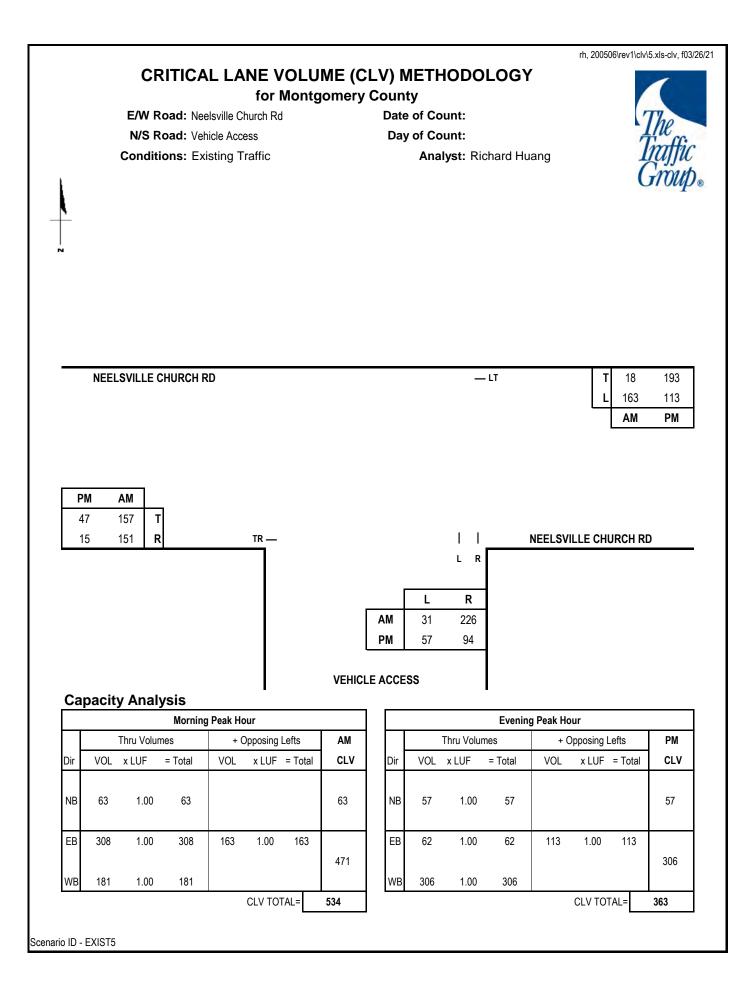


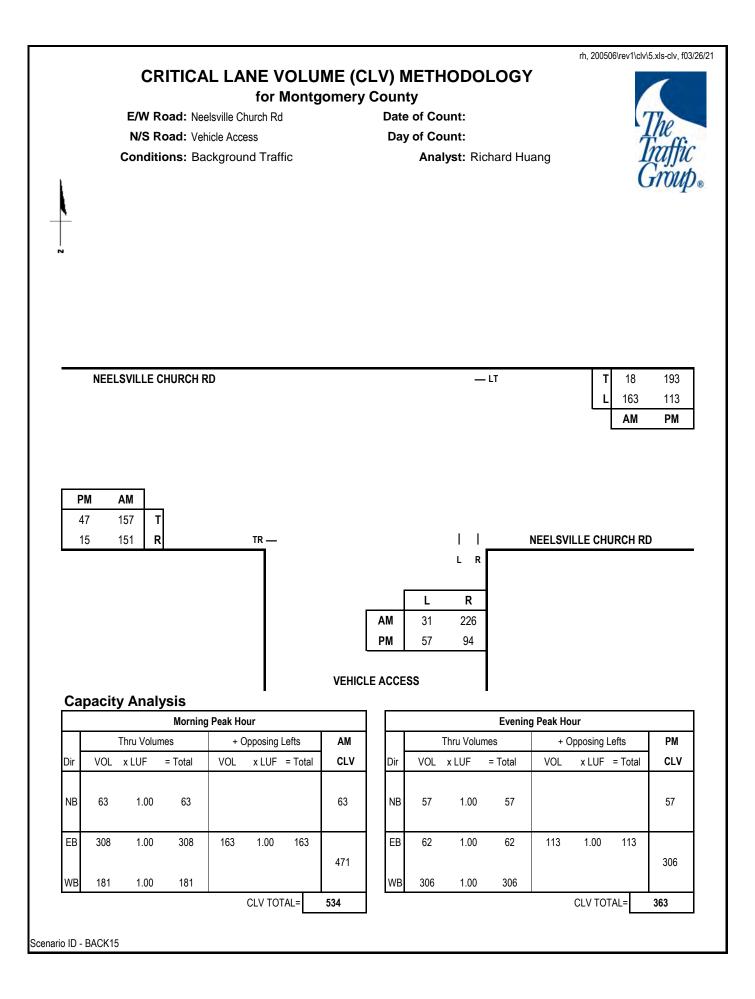












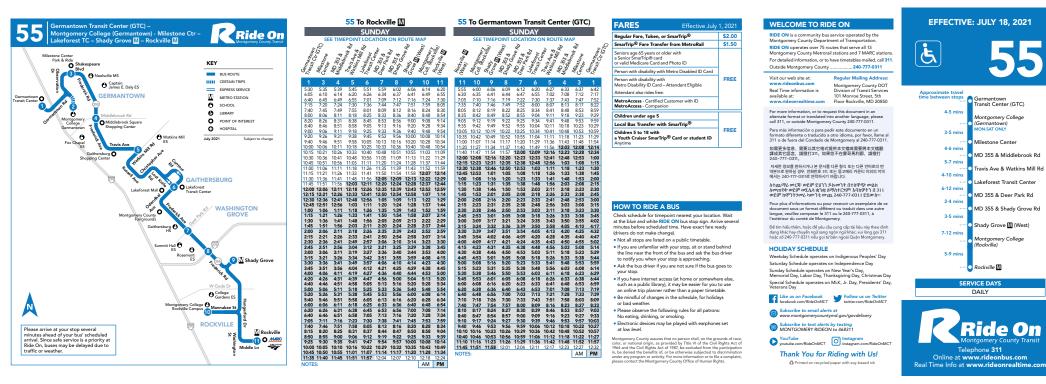
														0506\rev1\c	11 (O.AIS I, I
		CF	RITICA	LLA						IODC	LOGY				1
					for I	Montg	omery	Coun	ty						
		E/W F	Road: Ne	elsville Cł	nurch Rd			Date	e of Co	ount:				1	The
		N/S F	Road: Vel	hicle Acce	ess			Day	of Co	ount:				1	<i>uw</i> a
		Condit	ions: To	tal Traff	ic				Ana	lyst: Ri	chard Hu	lang			ntt
														(m
															1 000
	NEEL	SVILLE	CHURCH F	RD						_	– LT		Т	26	201
													L	. 179	112
														AM	PM
P	M	AM													
P 5			ī												
	5				<u>TR</u> —					I		NEELSV	ILLE CH	URCH RI	D
5	5	165 1			TR —					 	r	NEELSV	ILLE CH	URCH RI	D
5	5	165 1			TR —						r	NEELSV	ILLE CH	URCH RI	D
5	5	165 1			TR —			[L	l LF R	r	NEELSV	ILLE CH	URCH RI	D
5	5	165 1			TR —			AM	L 30		r	NEELSV	ILLE CH	URCH RI	D
5	5	165 1			TR —			AM PM		R	r	NEELSV	ILLE CH	URCH RI	D
5	5	165 1			TR —				30	R 250	r	NEELSV	ILLE CH	URCH RI	D
5	5	165 1 171 F	R		TR —		VEHICI		30 53	R 250	r	NEELSV	ILLE CH	URCH RI	D
5	5	165 1	ysis				VEHICI	PM	30 53	R 250				URCH RI	D
5	⁵ 1 pacit	165 1 171 F y Anal	ysis Morning	g Peak Ho	ur		1	PM	30 53 SS	R 250 98	Evenin	g Peak Ho	pur		
5 1 Ca	⁵ 1 pacit	165 1 171 F y Anal Thru Volu	ysis Morning mes	- + C	ur pposing l		AM		30 53 SS	R 250 98 Thru Volu	Evenin mes	g Peak Ho	pur Dpposing I	Lefts	РМ
5 1 Ca	⁵ 1 pacit	165 1 171 F y Anal	ysis Morning	-	ur pposing l	Lefts = Total	1	PM	30 53 SS	R 250 98	Evenin	g Peak Ho	pur Dpposing I		РМ
5 1 Da	5 1 pacit	165 1 171 F y Anal Thru Volu x LUF	ysis Morning mes = Total	- + C	ur pposing l		AM CLV	PM LE ACCE	30 53 SS	R 250 98 Thru Volu x LUF	Evenin mes = Total	g Peak Ho	pur Dpposing I	Lefts	PM CLV
5 1 Da	⁵ 1 pacit	165 1 171 F y Anal Thru Volu	ysis Morning mes	- + C	ur pposing l		AM		30 53 SS	R 250 98 Thru Volu	Evenin mes	g Peak Ho	pur Dpposing I	Lefts	РМ
5 1 Dir	5 1 pacit VOL 280	165 1 171 F y Anal Thru Volui x LUF 1.00	ysis Morning mes = Total 280	+ C VOL	ur)pposing x LUF	= Total	AM CLV	PM LE ACCE Dir NB	30 53 SS VOL	R 250 98 Thru Volu x LUF 1.00	Evenin mes = Total	g Peak Ho + (VOL	Dur Dpposing I x LUF	Lefts = Total	PM CLV
5 1 Dir	5 1 pacit	165 1 171 F y Anal Thru Volu x LUF	ysis Morning mes = Total	- + C	ur pposing l		AM CLV 280	PM LE ACCE	30 53 SS	R 250 98 Thru Volu x LUF	Evenin mes = Total	g Peak Ho	pur Dpposing I	Lefts	PM CLV 151
5 1 Dir NB EB	5 1 pacit VOL 280 336	165 1 171 F 171 F 171 Thru Volue x LUF 1.00 1.00 1.00	ysis Morning mes = Total 280 336	+ C VOL	ur)pposing x LUF	= Total	AM CLV	PM	30 53 SS VOL 151 66	R 250 98 Thru Volu x LUF 1.00	Evenin mes = Total 151 66	g Peak Ho + (VOL	Dur Dpposing I x LUF	Lefts = Total	PM CLV
5	5 1 pacit VOL 280	165 1 171 F y Anal Thru Volui x LUF 1.00	ysis Morning mes = Total 280	+ C VOL	ur)pposing x LUF	= Total 179	AM CLV 280	PM LE ACCE Dir NB	30 53 SS VOL	R 250 98 Thru Volu x LUF 1.00	Evenin mes = Total	g Peak Ho + (VOL	Dur Dpposing I x LUF	Lefts = Total 112	PM CLV 151

														0506\rev1\c	
		CI	RITICA	AL LA						HODC	DLOG				1
						-	omery		-						
			Road: Ne						te of Co					1	The
			Road: Bu					Da	ay of Co					F	Tmff
		Condit	tions: To	otal Traf	fic				Ana	ilyst: Ri	chard Hu	lang		-	jujju
														C	JTOU
-															
	NEEL	SVILLE	CHURCH	RD						-	– LT		1	r 197	305
													L	27	27
														AM	PM
PI		AM	-												
14	15	407 .	ī												
	15	407 .	T		TR —						-	NEELSV	ILLE CH	URCH R	D
14	15	407 .			TR —					 L R	-	NEELSV	ILLE CH	URCH R	D
14	15	407 .									-	NEELSV	ILLE CH	URCH R	D
14	15	407 .			TR —			ам	L	R	-	NEELSV	ILLE CH	URCH R	D
14	15	407 .			TR —			AM	8	R 27	-	NEELSV	ILLE CH	URCH R	D
14	15	407 .			TR —			AM PM		R	-	NEELSV	ILLE CH	URCH R	D
14	15	407 .			TR —		BUS	PM	8 8	R 27	-	NEELSV	ILLE CH	URCH R	D
14 8	15	407 .	R		TR —		BUS		8 8	R 27	-	NEELSV	ILLE CH	URCH R	D
14 8	15	407 [·] 8 I	R	g Peak Ho			BUS	PM	8 8	R 27		NEELSV g Peak Ho		URCH R	D
14 8	15	407 [·] 8 I	R Iysis Mornin	-		Lefts	BUS	PM	8 8	R 27	Evenin	g Peak Ho			D
14 8 Ca	pacit	407 · 8 I	R Iysis Mornin	-	Dur Dpposing I	Lefts = Total		PM	8 8 55	R 27 27	Evenin	g Peak Ho	pur Dpposing		
14 8	p acit	407 · 8 I y Anal Thru Volu x LUF	R Iysis Mornin imes = Total	+ (Dur Dpposing I		AM CLV	PM ACCES	8 8 55 VOL	R 27 27 Thru Volu x LUF	Evenin mes = Total	g Peak Ho	pur Dpposing	Lefts	PM CLV
14 8	pacit	407 * 8 I 9 Anal	R Iysis Mornin Imes	+ (Dur Dpposing I		AM		8 8 55 VOL	R 27 27 Thru Volu	Evenin	g Peak Ho	pur Dpposing	Lefts	PM
14 8	pacit	407 * 8 I 7 Anal 7 Thru Volu x LUF 1.00	R Iysis Mornin imes = Total 8	+ (VOL	Dur Dpposing I x LUF	= Total	AM CLV	ACCES	8 8 55 VOL 8 8	R 27 27 Thru Volu x LUF 1.00	Evenin mes = Total	g Peak Ho + (VOL	Dur Dpposing x LUF	Lefts = Total	PM CLV
14 8 ir	p acit	407 · 8 I y Anal Thru Volu x LUF	R Iysis Mornin imes = Total	+ (Dur Dpposing I		AM CLV 8	PM ACCES	8 8 55 VOL 8 8	R 27 27 Thru Volu x LUF	Evenin mes = Total	g Peak Ho	pur Dpposing	Lefts	PM CLV 8
14 8 VB	Pacit VOL 8 415	407 * 8 I Thru Volu x LUF 1.00 1.00	R Iysis Mornin Imes = Total 8 415	+ (VOL	Dur Dpposing I x LUF	= Total	AM CLV	ACCES	8 8 3 3 8 3 153	R 27 27 Thru Volu x LUF 1.00	Evenin mes = Total 8 153	g Peak Ho + (VOL	Dur Dpposing x LUF	Lefts = Total	PM CLV
14 8	pacit	407 * 8 I 7 Anal 7 Thru Volu x LUF 1.00	R Iysis Mornin imes = Total 8 415	+ C VOL 27	Dur Dpposing I x LUF	= Total 27	AM CLV 8	ACCES	8 8 3 3 3 3 153	R 27 27 Thru Volu x LUF 1.00	Evenin mes = Total	g Peak Ho + (VOL	Dur Dpposing x LUF	Lefts = Total 27	PM CLV 8

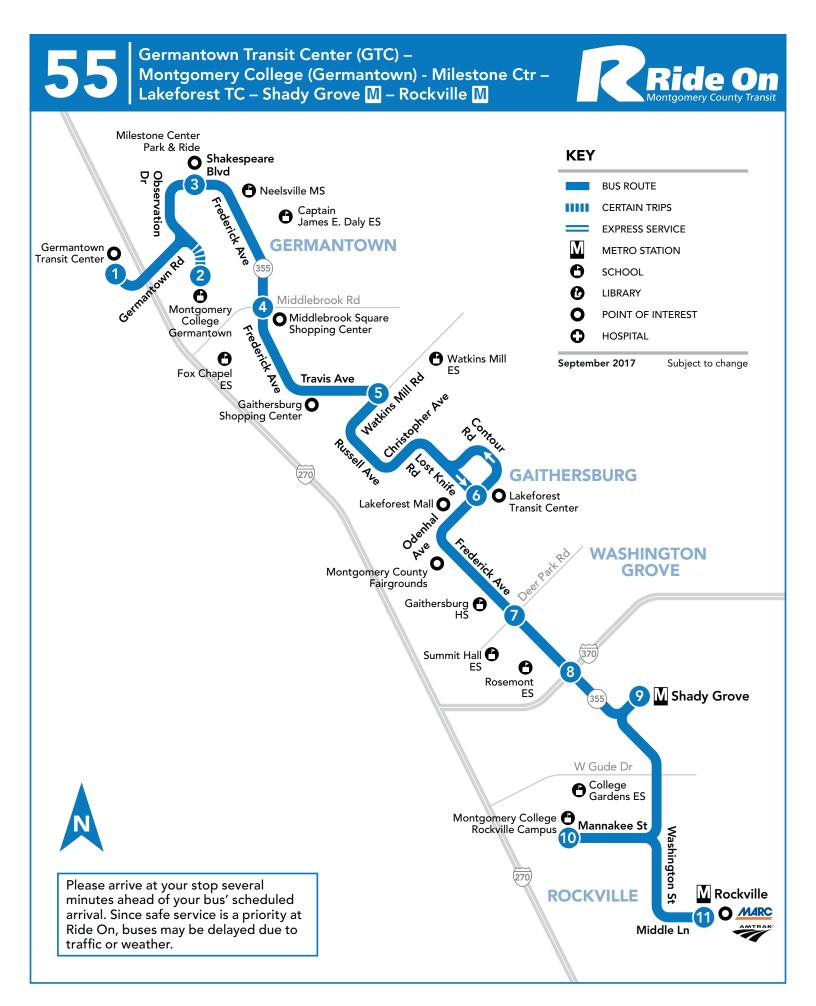
APPENDIX D

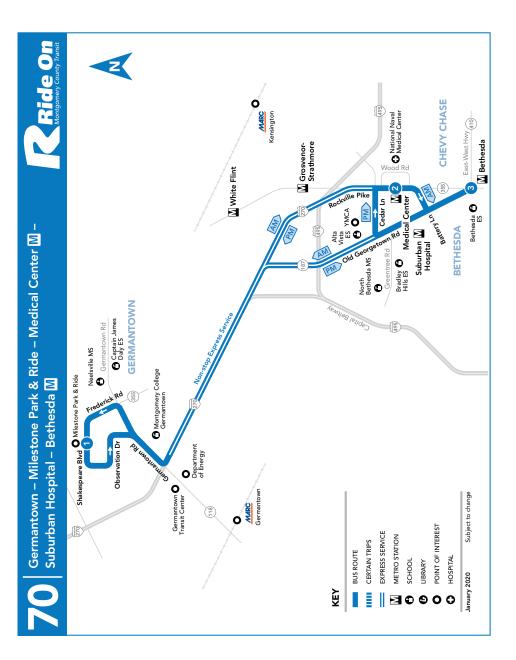
Transit Schedules





55 To Rockville M MONDAY THROUGH FRIDAY	55 To Germantown Transit Center (GTC) MONDAY THROUGH FRIDAY SEE TIMEPOINT LOCATION ON YOUTE MAP
SEE TIMEPOINT LOCATION ON ROUTE MAP	Properties and the second seco
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	11 10 9 8 7 6 5 4 3 2 1 500 505 511 514 517 525 525 528 547 540 500 505 511 514 514 515 525 528 547 540 505 551 541 544 547 550 527 528 547 550 605 512 621 624 6489 649
3.24 3.27 3.28 3.27 3.24 3.27 3.24 3.27 3.24 3.27 3.24 4.24 4.35 4.24 4.34 4.34 4.34 4.34 4.34 4.34 4.34 4.34 4.34 4.34 4.34 4.34 4.34 4.34 4.34 4.35 5.05 5.11 5.21 5.22 5.33 5.44 5.83 5.33 5.45 5.53 5.53 5.55 5.55 5.55 5.55 5.55 5.55 5.55 5.55 5.55 5.55 5.55 5.64 5.55 5.64 5.55 5.64 5.55 5.64 5.75 7.42 7.65 5.74 5.74 7.64 <td< td=""><td>4:30 4:37 4:50 4:54 4:58 5:07 5:18 5:22 5:33 5:44 5:05 5:53 4:54 5:02 5:16 5:22 5:33 5:44 5:50 5:53 5:06 5:15 5:22 5:33 5:42 5:30 5:56 6:02 6:05 5:06 5:15 5:22 5:33 5:44 5:60 5:16 5:22 5:33 5:44 5:60 6:02 6:05 6:31 6:17 6:27 6:33 6:37 6:37 6:37 6:37 6:37 6:42 6:38 6:37 6:42 6:38 6:37 6:47 6:37 6:47 7:47 7:47 7:47 7:47 7:47 7:47 7:47 7:47 7:47 7:47 7:47</td></td<>	4:30 4:37 4:50 4:54 4:58 5:07 5:18 5:22 5:33 5:44 5:05 5:53 4:54 5:02 5:16 5:22 5:33 5:44 5:50 5:53 5:06 5:15 5:22 5:33 5:42 5:30 5:56 6:02 6:05 5:06 5:15 5:22 5:33 5:44 5:60 5:16 5:22 5:33 5:44 5:60 6:02 6:05 6:31 6:17 6:27 6:33 6:37 6:37 6:37 6:37 6:37 6:42 6:38 6:37 6:42 6:38 6:37 6:47 6:37 6:47 7:47 7:47 7:47 7:47 7:47 7:47 7:47 7:47 7:47 7:47 7:47
SEE TIMEPOINT LOCATION ON ROUTE MAP	SEE TIMEPOINT LOCATION ON ROUTE MAP
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	11 10 9 8 7 6 5 4 3 2 1 555 555 661 640 607 651 622 623 522 623 522 640 625 630 607 657 720 527 724 715 725 735 737 742 745 723 727 727 727 727 727 727 727 727 727 737 747 745 735 756 640 607 811 814 816 817 801 807 811 814 814 816 817 814 814 816 817 817 817 814 814 816 817 817 814 814 816 817 817 817 818 848 816 817 817 817 817 818 818 816 817 817 817 817 817 817 817 817 817 817 817 817 817 81
11:00 11:02 11:12 11:13 11:33 11:33 11:33 11:33 11:33 11:32 <td< td=""><td>SEE REVERSE FOR SUNDAY SERVICE</td></td<>	SEE REVERSE FOR SUNDAY SERVICE





WELCOME TO RIDE ON

RIDE ON is a community bus service operated by the Montgomery County Department of Transportation. **RIDE ON** operates over 75 routes that serve all 13

Montgomery County Metrorail stations and 7 MARC stations. For detailed information, or to have timetables mailed, call 311.

Outside Montgomery County240-777-0311

Visit our web site at:	Regular Mailing Address:
www.rideonbus.com	Montgomery County DOT
Real Time information is	Division of Transit Services
available at:	101 Monroe Street, 5th
www.rideonrealtime.com	Floor Rockville, MD 20850

of Transit Services nroe Street, 5th ockville, MD 20850

For more information, or to request this document in an alternate format or translated into another language, please call 311, or outside Montgomery County 240-777-0311.

Para más información o para pedir este documento en un formato diferente o traducido a otro idioma, por favor, llame al 311 o de fuera del Condado de Montgomery al 240-777-0311.

如需更多信息、需要以其它格式提供本文檔或需要將本文檔翻 譯成其它語言,請撥打311。如果您不在蒙哥馬利郡,請撥打 240-777-0311。

자세한 정보를 원하시거나 본 문서를 다른 형식 또는 다른 언어로의 번 역본으로 원하실 경우, 전화번호 311, 또는 몽고메리 카운티 이외의 지역 에서는 240-777-0311로 연락하시기 바랍니다.

ስተጨማሪ መረጃ፣ ወይም ይህንን ዶኩመንት በተለዋጭ መልክ ለመጠየቅ ወይም ወደሌላ ቋንቋ ለማስተርንም፣ እባከዎትን በ 311 ወይም ከሞንትንመሪ ካውንቲ ውጪ 240-777-0311 ይደውሉ።

Pour plus d'informations ou pour recevoir un exemplaire de ce document sous un format différent ou traduit dans une autre langue, veuillez composer le 311 ou le 240-777-0311, à l'extérieur du comté de Montgomery.

Để tìm hiểu thêm, hoặc để yêu cầu cung cấp tài liệu này theo định dạng khác hay chuyển ngữ sang ngôn ngữ khác, vui lòng gọi 311 hoặc số 240-777-0311 nếu gọi từ bên ngoài Quận Montgomery.

HOLIDAY SCHEDULE

Weekday Schedule operates on Indigenous Peoples' Day

Saturday Schedule operates on Independence Day

Sunday Schedule operates on New Year's Day, Memorial Day, Labor Day, Thanksgiving Day, Christmas Day Special Schedule operates on MLK, Jr. Day, Presidents' Day, Veterans Day

Like us on Facebook Follow us on Twitter facebook.com/RideOnMCT twitter.com/RideOnMCT

Subscribe to email alerts at www.montgomerycountymd.gov/govdelivery

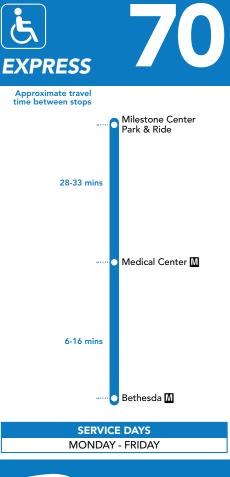
Subscribe to text alerts by texting MONTGOMERY RIDEON to 468311

YouTube Instagram instagram.com/RideOnMCT youtube.com/RideOnMCT

Thank You for Riding with Us!

Printed on recycled paper with soy-based ink

EFFECTIVE: SEPTEMBER 27, 2020





70 To Bethesda 🔟									
MONDAY THROUGH FRIDAY									
SEE TIMEPOINT LOCATION ON ROUTE MAP									
Milestone Center Park & Ride	Medical Center	Bethesda M							
1	2	3							
4:45	5:08	5:13							
5:20	5:43	5:48							
5:55	6:26	6:31							
6:30	7:06	7:13							
7:05	7:45	7:53							
7:40	8:20	8:28							
8:15	8:52	9:01							
8:50	9:27	9:36							
9:30	10:07	10:16							
3:17		3:50							
3:52		4:25							
4:32		5:05							
5:11		5:49							
5:46		6:19							
6:21		6:54							
6:52		7:25							
NOTES:	AM	PM							

-

- * AM EXPRESS SERVICE TO BETHESDA: Bus serves all stops between Milestone Center and MD118- Germantown Rd & Seneca Meadow Pkwv. and all stops from Medical Center Station to Bethesda Station
- PM EXPRESS SERVICE TO BETHESDA: Bus serves all stops between Milestone Center and MD118- Germantown Rd & Seneca Meadow Pkwy, and all stops from Suburban Hospital to Bethesda Station.

70 To German	town-Milestor	ne Park & Ride
MONDA	Y THROUGH	FRIDAY
SEE TIMEPOI	NT LOCATION ON	ROUTE MAP
Bethesda M	Medical Center	Milestone Center Park & Ride
3	2	1
5:18		5:49
5:53		6:24
6:36		7:09
7:18		7:49
7:58		8:29
8:33		9:04
2:30	2:44	3:12
3:05	3:19	3:47
3:40	3:56	4:27
4:15	4:33	5:06
4:50	5:08	5:41
5:25	5:43	6:16
6:00	6:16	6:47
6:35	6:50	7:19
7:10	7:21	7:44
7:55	8:06	8:29
NOTES:	AM	PM

- AM EXPRESS SERVICE TO MILESTONE CENTER. Bus serves all stops between Bethesda Station and Old Georgetown Rd & Lincoln Street and all stops between MD118- Germantown Rd & Seneca Meadow Pkwy to Milestone Center.
- PM EXPRESS SERVICE TO MILESTONE CENTER. Bus serves all stops between Bethesda Station and Medical Center Station inclusive, and all stops from MD118-Germantown Rd & Seneca Meadow Pkwy to Milestone Center.

HOW TO RIDE A BUS

Check schedule for timepoint nearest your location. Wait at the blue and white RIDE ON bus stop sign. Arrive several minutes before scheduled time. Have exact fare ready (drivers do not make change).

- Not all stops are listed on a public timetable.
- If you are unfamiliar with your stop, sit or stand behind the line near the front of the bus and ask the bus driver to notify you when your stop is approaching.
- Ask the bus driver if you are not sure if the bus goes to your stop.
- If you have internet access (at home or somewhere else, such as a public library), it may be easier for you to use an online trip planner rather than a paper timetable.
- Be mindful of changes in the schedule, for holidays or bad weather.
- Please observe the following rules for all patrons: No eating, drinking, or smoking.
- Electronic devices may be played with earphones set at low level.

HOW TO READ A TIMETABLE

- Find the schedule for the day of the week and the direction you wish to ride.
- Find the timepoints closest to your origin and destination. The timepoints are shown on the route map and indicate the time the bus is scheduled to be at the particular location. Your nearest bus stop may be between timepoints.
- Read down the column to see the times when a trip will be at the given timepoint. Read the times across to the right to see when the trip reaches other timepoints. If no time is shown, that trip does not serve that timepoint.

Montgomery County assures that no person shall, on the grounds of race, color, or national origin, as provided by Title VI of the Civil Rights Act of 1964 and the Civil Rights Act of 1987, be excluded from the participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity. For more information or to file a complaint, please contact the Montgomery County Office of Human Rights.

FARES

Express Fare (Route 70)	\$4.25					
SmarTrip [®] or Cash	\$4.25					
SmarTrip [®] Transfer from Metrorail	\$3.75					
SmarTrip [®] Transfer from local bus	\$2.25					
Boarding with Weekly, Monthly, TLC Passes – Additional Paid with cash	\$2.25					
Seniors and persons with disability Express Fares (Route 70) except during free periods:						
Senior/Disabled SmarTrip $^{ extsf{R}}$ or Cash	\$2.10					
Senior/Disabled ${\rm SmarTrip}^{{\rm I\!R}}$ Transfer from Metrorail	\$1.60					
Senior/Disabled $SmarTrip^{\textcircled{R}}$ Transfer from local bus	\$1.10					
Senior/Disabled Boarding with Weekly Pass – Additional Paid with cash	\$1.10					
Children under age 5 Limit 2 children per paying passenger	FREE					

GUARANTEED RIDE HOME

When you take Metrobus, Metrorail and Ride On to work, you are eligible to participate in the free Commuter Connections Guaranteed Ride Home Program. To register and to receive program details call:

Commuter Services at 301-770-POOL(7665).

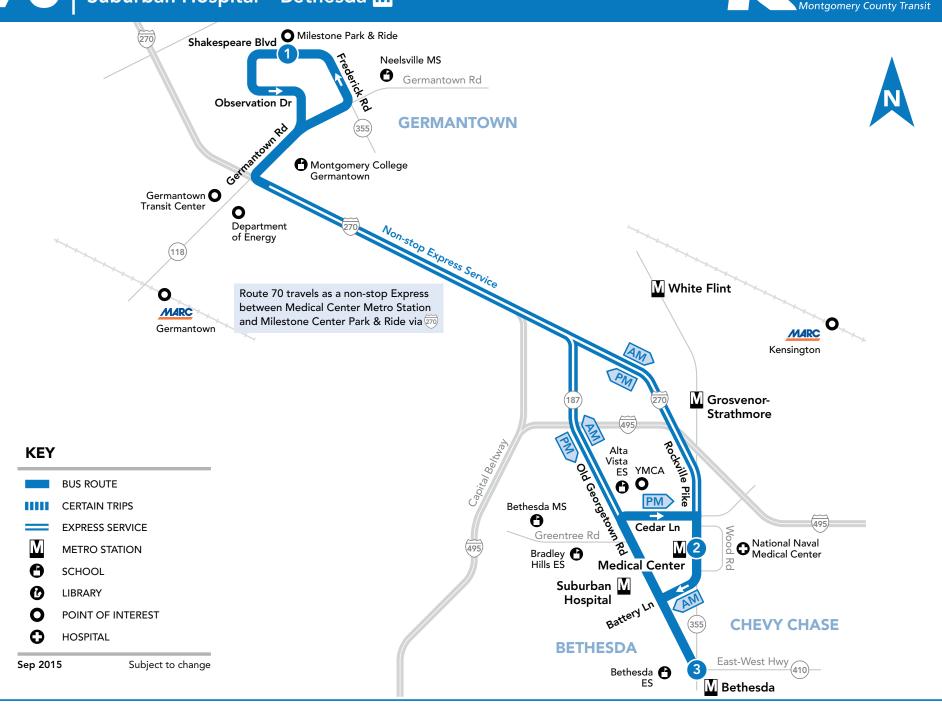
METROACCESS

Alternative paratransit service to this Ride On route for people with certified disabilities is available. Call MetroAccess at 301-562-5360.



There is NO Saturday or Sunday service on this route

Please arrive at your stop several minutes ahead of your bus' scheduled arrival. Since safe service is a priority at Ride On, buses may be delayed due to traffic or weather. Germantown – Milestone Park & Ride – Medical Center M – Suburban Hospital – Bethesda M



Ride On

FARES Effective September 1	5, 2019
Regular Fare, Token, or SmarTrip [®]	\$2.00
SmarTrip [®] Fare Transfer from MetroRail	\$1.50
Seniors and persons with disability with valid ID (including attendant-eligible) except during free p	eriods:
Senior/Disabled SmarTrip $^{ extsf{R}}$ or Cash	\$1.00
Senior/Disabled SmarTrip [®] Transfer from Metrorail	\$0.50
Seniors age 65 years or older with a Senior SmarTrip® card or valid Metro Senior ID Card or with valid Medicare Card and Photo ID from 9:30 am – 3:00 pm Monday through Friday and Saturday from 8:30 am – 4:00 pm.	
Person with disability with Metro Disabled ID Card from 9:30 am – 3:00 pm Monday through Friday and Saturday from 8:30 am – 4:00 pm.	FREE
Person with disability with Metro Disability ID Card – Attendant Eligible from 9:30 am – 3:00 pm Mon. through Fri. and Sat. from 8:30 am – 4:00 pm. Attendant rides half fare or free depending on time.	
MetroAccess - Certified Customer with ID MetroAccess - Companion	
Children under age 5	
Local Bus Transfer with SmarTrip [®]	
Children 5 to 18 with a Youth Cruiser SmarTrip [®] Card or student ID Anytime	FREE

HOW TO RIDE A BUS

Check schedule for timepoint nearest your location. Wait at the blue and white **RIDE ON** bus stop sign. Arrive several minutes before scheduled time. Have exact fare ready (drivers do not make change).

• Not all stops are listed on a public timetable.

- If you are unfamiliar with your stop, sit or stand behind the line near the front of the bus and ask the bus driver to notify you when your stop is approaching.
- Ask the bus driver if you are not sure if the bus goes to your stop.
- If you have internet access (at home or somewhere else, such as a public library), it may be easier for you to use an online trip planner rather than a paper timetable.
- Be mindful of changes in the schedule, for holidays or bad weather.
- Please observe the following rules for all patrons: No eating, drinking, or smoking.
- Electronic devices may be played with earphones set at low level.

WELCOME TO RIDE ON

RIDE ON is a community bus service operated by the Montgomery County Department of Transportation.

RIDE ON operates over 75 routes that serve all 13 Montgomery County Metrorail stations and 7 MARC stations. For detailed information, or to have timetables mailed, call 311. Outside Montgomery County 240-777-0311

Visit our web site at: www.rideonbus.com	
Real Time information is	I
available at:	
www.rideonrealtime.com	

Regular Mailing Address: Montgomery County DOT Division of Transit Services 101 Monroe Street, 5th Floor Rockville, MD 20850

For more information, or to request this document in an alternate format or translated into another language, please call 311, or outside Montgomery County 240-777-0311.

Para más información o para pedir este documento en un formato diferente o traducido a otro idioma, por favor, llame al 311 o de fuera del Condado de Montgomery al 240-777-0311.

如需更多信息、需要以其它格式提供本文檔或需要將本文檔翻 譯成其它語言,請撥打311。如果您不在蒙哥馬利郡,請撥打 240-777-0311。

자세한 정보를 원하시거나 본 문서를 다른 형식 또는 다른 언어로의 번 역본으로 원하실 경우, 전화번호 311, 또는 몽고메리 카운티 이외의 지역 에서는 240-777-0311로 연락하시기 바랍니다

ለተጨማሪ መረጃ፣ ወይም ይህንን ዶኩመንት በተለዋጭ መልክ ስመጠየቅ ወይም ወደሌላ ቋንቋ ስማስተርንም፣ እባከዎትን በ 311 ወይም ከሞንትንመሪ ካውንቲ ውጪ 240-777-0311 ይደውሉ።

Pour plus d'informations ou pour recevoir un exemplaire de ce document sous un format différent ou traduit dans une autre langue, veuillez composer le 311 ou le 240-777-0311, à l'extérieur du comté de Montgomery.

Để tìm hiểu thêm, hoặc để yêu cầu cung cấp tài liệu này theo định dang khác hay chuyển ngữ sang ngôn ngữ khác, vui lòng gọi 311 hoặc số 240-777-0311 nếu gọi từ bên ngoài Quân Montgomery.

HOLIDAY SCHEDULE

Weekday Schedule operates on Indigenous Peoples' Day

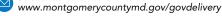
Saturday Schedule operates on Independence Day

Sunday Schedule operates on New Year's Day, Memorial Day, Labor Day, Thanksgiving Day, Christmas Day Special Schedule operates on MLK, Jr. Day, Presidents' Day,

Veterans Day Like us on Facebook Follow us on Twitter facebook.com/RideOnMCT twitter.com/RideOnMCT



Subscribe to email alerts at



Subscribe to text alerts by texting MONTGOMERY RIDEON to 468311



Instagram instagram.com/RideOnMCT

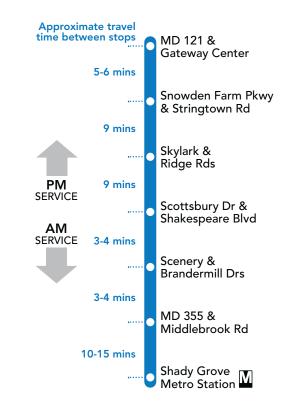
Thank You for Riding with Us!

Printed on recycled paper with soy-based ink

EFFECTIVE: MAY 9, 2021 Map Correction May 11, 2021





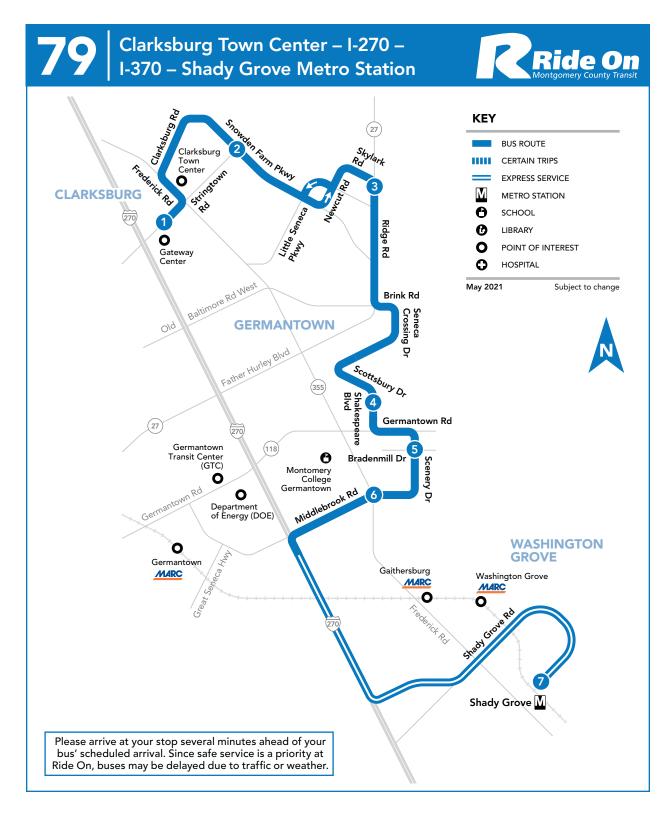


SERVICE DAYS **MONDAY - FRIDAY**



Telephone 311 Online at www.rideonbus.com Real Time Info at **www.rideonrealtime.com**





79 To Shady Grove Metro Station

MONDAY THROUGH FRIDAY SEE TIMEPOINT LOCATION ON ROUTE MAP

MD 727 & Gateway C	Snowden Earn & Strington	Skylark & Ridge Rds	Scottsbury Dr &	Scenery & Brandernill D	MD 355 &	Shady Grove Metro Statio
1	2	3	4	5	6	7
5:05	5:10	5:16	5:24	5:27	5:32	5:43
5:50	5:55	6:01	6:09	6:12	6:17	6:28
6:35	6:41	6:48	6:57	7:00	7:05	7:16
7:20	7:26	7:33	7:42	7:45	7:50	8:01
8:05	8:10	8:17	8:25	8:28	8:32	8:43
8:50	8:55	9:02	9:10	9:13	9:17	9:28
NOTES:	AM Se	rvice Or	nly			AM

79 To Clarksburg Town Center

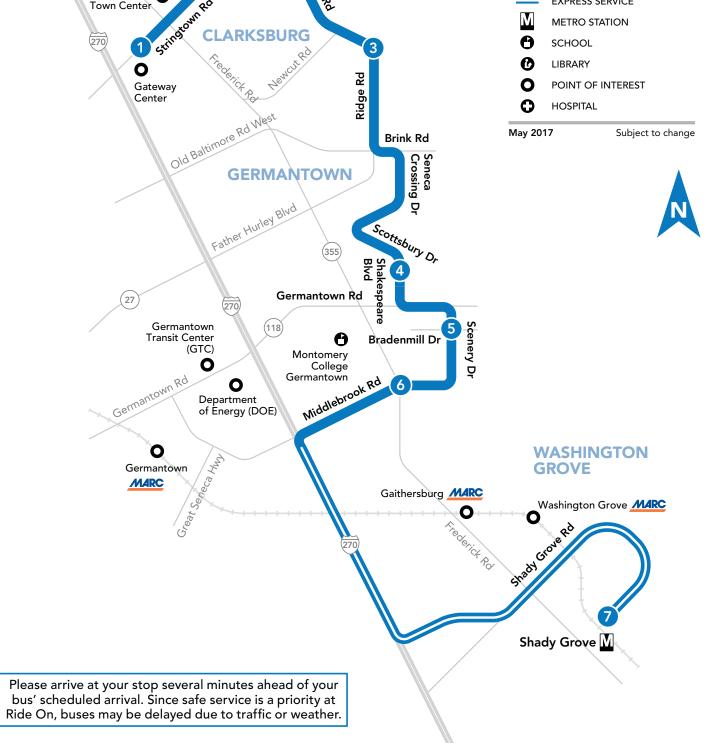
	Ν	IOND	AY Th	IROU	gh ff	RIDAY	,	
		E TIMEP	OINT LO	CATION	ON RO	UTE MA	Ρ	
	Metro Station (East) Station	MD 355 & Middlebroot	Scenery & Brandernill D	Scottsbury Dr. & OLD		Stringtown	MD 121 & Gateway Car	è,
	3rou atio	\$ 07	_ ₩		0+ (c	E La	۔ صحت ا	5
	500	355 ebr	Le le	tsbe spe	204	'gh	121	
Ś	letr ast)	20	iano	ake cot	Ridge Ros	Strij		
	<i>₹₩</i>	- 2.	5 Å	5 5 5	νĘ.	્ર સ	≂ ଓଁ	
	7	6	5	4	3	2	1	
	3:10	3:23	3:26	3:29	3:37	3:43	3:48	
	3:55	4:08	4:11	4:14	4:22	4:28	4:33	
	4:40	4:54	4:57	5:00	5:09	5:15	5:21	
	5:05	5:19	5:22	5:25	5:34	5:40	5:46	
	5:50	6:04	6:07	6:10	6:19	6:25	6:31	
	6:35	6:48	6:51	6:54	7:02	7:08	7:13	
	7:20	7:33	7:36	7:39	7:47	7:53	7:58	
	NOTES:	PM Se	rvice O	nly			PM	

METROACCESS

Alternative paratransit service to this Ride On route for people with certified disabilities is available. Call MetroAccess at **301-562-5360**.

Montgomery County assures that no person shall, on the grounds of race, color, or national origin, as provided by Title VI of the Civil Rights Act of 1964 and the Civil Rights Act of 1987, be excluded from the participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity. For more information or to file a complaint, please contact the Montgomery County Office of Human Rights.

Clarksburg Town Center – I-270 – 79 **Ride On** I-370 – Shady Grove Metro Station Snowden Clarks Crossing Ro Karm Pkuy 2 **KEY** Skylark Rd **BUS ROUTE** CERTAIN TRIPS **Piedmont Rd** Clarksburg O 80 EXPRESS SERVICE Town Center Μ METRO STATION



APPENDIX E

Speed and Crash Data



YEAR	JUNCTION	COLLISION TYPE	LANE DESC	REPORT NO	REPORT TYPE	ACC_DATE	ACC_TIME	RTE_NO	ROUTE TYPE	LOG MILE	MAINROAD NAME	DISTANCE	FEET/MILES	REFERENCE	REFERENCE TYPE	REFERENCE ROAD NAME
2015	Non Intersection	Same Movement Angle		MCP22980075		20151218	14:12:00	355	MD	18.81	FREDERICK RD	75		118	MD	GERMANTOWN RD
2015	Intersection	Same Movement Angle	Left Turn Lane	MCP2590000J		20150101	21:01:00	355	MD	18.81	FREDERICK RD	0		118	MD	GERMANTOWN RD
2015	Intersection Related	Same Direction Rear End		MCP28750016		20150831	17:47:00	355	MD	18.81	FREDERICK RD	0		118	MD	GERMANTOWN RD
2015	Non Intersection	Same Direction Rear End	Right Turn Lane	MCP2964000T		20150828	17:07:00	355	MD	18.81	FREDERICK RD	10		118	MD	GERMANTOWN RD
2015	Intersection Related	Same Direction Rear End	Left Turn Lane	MCP2890000P		20150924	22:16:00	355	MD	18.81	FREDERICK RD	100		6,377	CO	GERMANTOWN RD
2015	Not Applicable	Same Direction Rear End	Right Turn Lane	MCP28820019		20150919	19:02:00	355	MD	18.81	FREDERICK RD	100		6,377	со	GERMANTOWN RD
2015	Intersection	Same Movement Angle	Right Turn Lane	MCP2851000Y		20150330	15:49:00	355	MD	18.81	FREDERICK RD	0		118	MD	GERMANTOWN RD
2015	Non Intersection	Same Direction Rear End	Right Turn Lane	MCP2882000K		20150114	19:14:00	355	MD	18.81	FREDERICK RD	300		118	MD	GERMANTOWN RD
2015	Intersection	Same Direction Rear End	Right Turn Lane	MCP9133000J		20151217	11:28:00	355	MD	18.81	FREDERICK RD	0		118	MD	GERMANTOWN RD
2016	Non Intersection	Same Direction Rear End	Left Turn Lane	MCP3016000B	Injury Crash	20160119	16:46:00	355	MD	18.81	FREDERICK RD	50		118	MD	GERMANTOWN RD
2016	Intersection Related	Same Direction Rear End	Right Turn Lane	MCP2831001D	Property Damage	20160819	15:12:00	355	MD	18.81	FREDERICK RD	50		118	MD	GERMANTOWN RD
2016	Intersection	Same Movement Angle	Right Turn Lane	MCP2950000S	Property Damage	20160218	22:44:00	355	MD	18.81	FREDERICK RD	0		118	MD	GERMANTOWN RD
2016	Non Intersection	Same Direction Sideswipe		MCP2946001R	Property Damage	20160911	16:45:00	355	MD	18.81	FREDERICK RD	30		118	MD	GERMANTOWN RD
2016	Intersection	Same Direction Sideswipe	Left Turn Lane	MCP1020001D	Injury Crash	20160211	9:55:00	355	MD	18.81	FREDERICK RD	0		118	MD	GERMANTOWN RD
2016	Intersection	Same Direction Rear End	Left Turn Lane	MCP04050007	Property Damage	20160806	12:45:00	355	MD	18.81	FREDERICK RD	0		118	MD	GERMANTOWN RD
2010	Intersection Related	Same Direction Rear End	Left Turn Lane	MCP9133000W	Injury Crash	20160800	9:10:00	355	MD	18.81	FREDERICK RD	20		118	MD	GERMANTOWN RD
2016	Intersection	Same Movement Angle	Right Turn Lane	MCP27610012	Injury Crash	20160422	5:41:00	355	MD	18.81	FREDERICK RD	0		110	MD	GERMANTOWN RD
2010	Intersection	Same Direction Rear End	Acceleration Lane	MCP27010012 MCP2878001X	Injury Crash	20160812	18:30:00	355	MD	18.81	FREDERICK RD	0		118	MD	GERMANTOWN RD
2016	Intersection	Single Vehicle	Left Turn Lane	MCP3016000T	Property Damage	20160628	7:35:00	355	MD	18.81	FREDERICK RD	0		110	MD	GERMANTOWN RD
2010	Non Intersection	Same Direction Sideswipe	Left fullitiane	MCP2893002J	Injury Crash	20160028	15:15:00	355	MD	18.81	FREDERICK RD	100		118	MD	GERMANTOWN RD
2010	Intersection	Head On Left Turn	Left Turn Lane	MCP10200022	Property Damage	20161201	8:41:00	355	MD	18.81	FREDERICK RD	0		110	MD	GERMANTOWN RD
2010	Intersection Related	Same Direction Rear End	Right Turn Lane	MCP10200022 MCP1022008J	Property Damage	20101201	6:49:00	355	MD	18.81	FREDERICK RD	275		118	MD	GERMANTOWN RD
2017		Same Direction Rear End	Right Turn Lane				9:13:00		MD	18.81	FREDERICK RD	100				GERMANTOWN RD
2017	Non Intersection	Same Direction Rear End	Dight Turn Long	MCP2962001Q	Property Damage	20170922	19:02:00	355	MD		FREDERICK RD	200		6,377 118	CO MD	GERMANTOWN RD
			Right Turn Lane	MCP28930039	Property Damage	20170802		355		18.81	-			-		
2017	Intersection	Head On Left Turn	Disks Turn Laws	MCP0405000J	Property Damage	20170624	10:47:00	355	MD	18.81	FREDERICK RD	0		118	MD	GERMANTOWN RD
2017	Intersection	Same Direction Rear End	Right Turn Lane	MCP2790001D	Injury Crash	20170710	21:56:00	355	MD	18.81	FREDERICK RD	0		118	MD	GERMANTOWN RD
2017	Not Applicable	Same Direction Rear End	Left Turn Lane	MCP29210025	Property Damage	20170930	21:09:00	355	MD	18.81	FREDERICK RD	100		118	MD	GERMANTOWN RD
2017	Non Intersection	Same Direction Rear End	Left Town Leve	MCP2072001N	Property Damage	20170617	13:30:00	355	MD	18.81	FREDERICK RD	20		118	MD	GERMANTOWN RD
2017	Intersection	Same Direction Rear End	Left Turn Lane	MCP30220014	Injury Crash	20170911	15:27:00	355	MD	18.81	FREDERICK RD	0		118	MD	GERMANTOWN RD
2017	Non Intersection	Same Direction Rear End	Right Turn Lane	MCP1022006C	Property Damage	20170216	13:25:00	355	MD	18.81	FREDERICK RD	250		6,377	CO	GERMANTOWN RD
2017	Intersection Related	Same Direction Rear End	Acceleration Lane	MCP13090010	Property Damage	20171116	14:14:00	355	MD	18.81	FREDERICK RD	15		118	MD	GERMANTOWN RD
2017	Intersection	Same Direction Rear End	Left Turn Lane	MCP1453004T	Property Damage	20171018	9:36:00	355	MD	18.81	FREDERICK RD	0		6,377	CO	GERMANTOWN RD
2018	Intersection	Same Movement Angle	Right Turn Lane	MCP102200B1	Injury Crash	20181119	10:12:00	355	MD	18.81	FREDERICK RD	0		118	MD	GERMANTOWN RD
2018	Not Applicable	Same Direction Rear End	Left Turn Lane	MCP2072002B	Property Damage	20180704	14:12:00	355	MD	18.81	FREDERICK RD	10		6,377	CO	GERMANTOWN RD
2018	Intersection Related	Same Direction Rear End	Left Turn Lane	MCP1015001K	Property Damage	20180716	8:08:00	355	MD	18.81	FREDERICK RD	20		118	MD	GERMANTOWN RD
2018	Intersection Related	Same Direction Left Turn		MCP21810024	Property Damage	20180401	14:14:00	355	MD	18.81	FREDERICK RD	50		118	MD	GERMANTOWN RD
2018	Intersection Related	Opposite Direction Sideswipe	Right Turn Lane	MCP3024001D	Injury Crash	20181029	19:40:00	355	MD	18.81	FREDERICK RD	0		118	MD	GERMANTOWN RD
2018	Intersection	Same Direction Rear End	Acceleration Lane	MCP3022001R	Property Damage	20180412	19:22:00	355	MD	18.81	FREDERICK RD	0		6,377	CO	GERMANTOWN RD
2018	Intersection	Other		MCP30750014	Injury Crash	20180419	16:55:00	355	MD	18.81	FREDERICK RD	0		6,377	CO	GERMANTOWN RD
2018	Intersection	Same Movement Angle	Right Turn Lane	MCP2790001J	Injury Crash	20180111	11:57:00	355	MD	18.81	FREDERICK RD	0		6,377	со	GERMANTOWN RD
2019	Non Intersection	Same Direction Rear End	Left Turn Lane	MCP94280029	Injury Crash	20190825	13:11:00	355	MD	18.81	FREDERICK RD	0.1		118	MD	GERMANTOWN RD
2019	Intersection Related	Same Direction Sideswipe		MCP1453007B	Property Damage	20190510	7:56:00	355	MD	18.81	FREDERICK RD	100		118	MD	GERMANTOWN RD
2019	Intersection	Same Movement Angle	Left Turn Lane	MCP3071001C	Property Damage	20190511	2:31:00	355	MD	18.81	FREDERICK RD	0		118	MD	GERMANTOWN RD
2019	Intersection Related	Same Direction Rear End	Right Turn Lane	MCP14530076	Injury Crash	20190312	12:07:00	355	MD	18.81	FREDERICK RD	550		118	MD	GERMANTOWN RD
2019	Intersection	Same Direction Rear End	Left Turn Lane	MCP30610018	Property Damage	20190105	0:10:00	355	MD	18.81	FREDERICK RD	0		118	MD	GERMANTOWN RD
2019	Intersection	Same Direction Rear End	Left Turn Lane	MCP25150021	Property Damage	20190707	17:00:00	355	MD	18.81	FREDERICK RD	0		118	MD	GERMANTOWN RD
2019	Not Applicable	Same Direction Rear End	Left Turn Lane	MCP20720031	Property Damage	20190912	8:20:00	355	MD	18.81	FREDERICK RD	100	L	118	MD	GERMANTOWN RD

YEAR	JUNCTION	COLLISION TYPE	LANE DESC	REPORT NO	REPORT TYPE	ACC_DATE	ACC_TIME	RTE_NO	ROUTE TYPE	LOG MILE	MAINROAD NAME	DISTANCE	FEET/MILES	REFERENCE NO	REFERENCE TYPE	REFERENCE ROAD NAME
2019	Non Intersection	Same Direction Left Turn	Left Turn Lane	MCP3126001P	Property Damage	20191017	19:55:00	355	MD	18.81	FREDERICK RD	0	Feet	118	MD	GERMANTOWN RD
2019	Intersection	Same Movement Angle	Right Turn Lane	MCP2921003H	Property Damage	20191124	17:12:00	355	MD	18.81	FREDERICK RD	0	Feet	118	MD	GERMANTOWN RD
2019	Intersection Related	Same Direction Rear End	Left Turn Lane	MCP2902003T	Property Damage	20191117	14:37:00	355	MD	18.81	FREDERICK RD	10	Feet	6,377	со	GERMANTOWN RD
2019	Intersection	Same Direction Rear End	Left Turn Lane	MCP2950001Y	Property Damage	20190203	22:08:00	355	MD	18.81	FREDERICK RD	0		118	MD	GERMANTOWN RD
2020	Intersection	Same Direction Rear End		MCP29500029	Property Damage	20200621	0:11:00	355	MD	18.81	FREDERICK RD	0	Feet	118	MD	GERMANTOWN RD
2020	Intersection	Same Movement Angle	Right Turn Lane	MCP29020047	Injury Crash	20200520	13:51:00	355	MD	18.81	FREDERICK RD	0	Feet	6,377	со	GERMANTOWN RD
2020	Intersection	Head On Left Turn		MCP2674001V	Property Damage	20200930	19:40:00	355	MD	18.81	FREDERICK RD	0	Feet	118	MD	GERMANTOWN RD
2020	Intersection	Same Direction Sideswipe	Right Turn Lane	MCP2702001W	Property Damage	20200804	14:00:00	355	MD	18.81	FREDERICK RD	0	Feet	6,377	со	GERMANTOWN RD
2020	Not Applicable	Same Direction Rear End	Left Turn Lane	MCP2072003G	Property Damage	20200115	14:50:00	355	MD	18.81	FREDERICK RD	20	Feet	118	MD	GERMANTOWN RD
2020	Intersection Related	Same Direction Rear End	Right Turn Lane	MCP3240001K	Property Damage	20201113	15:45:00	355	MD	18.81	FREDERICK RD	100	Feet	118	MD	GERMANTOWN RD
2020	Intersection Related	Same Direction Rear End		MCP3240001L	Property Damage	20201123	18:17:00	355	MD	18.81	FREDERICK RD	0	Feet	118	MD	GERMANTOWN RD
2020	Intersection	Same Direction Rear End	Right Turn Lane	MCP3258000G	Property Damage	20201105	13:53:00	355	MD	18.81	FREDERICK RD	0	Feet	118	MD	GERMANTOWN RD
2020	Intersection Related	Same Direction Rear End	Right Turn Lane	MCP3240001H	Property Damage	20201113	15:45:00	355	MD	18.81	FREDERICK RD	100	Feet	118	MD	GERMANTOWN RD
2021	Intersection Related	Same Direction Rear End	Right Turn Lane	MCP14530092	Injury Crash	20210108	7:35:00	355	MD	18.81	FREDERICK RD	30	Feet	118	MD	GERMANTOWN RD
2021	Intersection	Same Direction Rear End		MCP3240001T	Injury Crash	20210223	18:20:00	355	MD	18.81	FREDERICK RD	0	Feet	118	MD	GERMANTOWN RD
2021	Intersection Related	Same Direction Rear End	Left Turn Lane	MCP3285000K	Injury Crash	20210315	7:24:00	355	MD	18.81	FREDERICK RD	25	Feet	118	MD	GERMANTOWN RD
2015	Intersection Related	Same Direction Rear End		MCP2349000B		20150202	13:00:00	355	MD	18.84	FREDERICK RD	0			UU	SPUR TO MD 118
2015	Not Applicable	Same Direction Rear End	Left Turn Lane	MCP28820013		20150706	19:17:00	355	MD	18.95	FREDERICK RD	20		2,359	со	COLLINS DR
2016	Intersection	Same Movement Angle	Left Turn Lane	MCP2055000X	Property Damage	20160413	12:51:00	355	MD	18.95	FREDERICK RD	0		25	со	NEELSVILLE CHURCH RD
2016	Intersection	Same Direction Rear End	Acceleration Lane	MCP2898001T	Property Damage	20161207	17:56:00	355	MD	18.95	FREDERICK RD	0		25	со	NEELSVILLE CHURCH RD
2016	Intersection	Head On Left Turn	Right Turn Lane	MCP1397000F	Property Damage	20160103	11:37:00	355	MD	18.95	FREDERICK RD	0		0	UU	CROSSOVER
2017	Crossover Related	Same Direction Rear End	Acceleration Lane	MCP2780003C	Property Damage	20171026	16:41:00	355	MD	18.95	FREDERICK RD	10		2,359	со	COLLINS DR
2018	Non Intersection	Same Direction Rear End	Right Turn Lane	MCP229800JM	Injury Crash	20180604	18:00:00	355	MD	18.95	FREDERICK RD	0		0	UU	CROSSOVER
2020	Non Intersection	Same Direction Rear End	Right Turn Lane	MCP3240000V	Property Damage	20200626	14:40:00	355	MD	18.95	FREDERICK RD	50	Feet	25	со	NEELSVILLE CHURCH RD
2020	Intersection	Single Vehicle	Left Turn Lane	MCP2950002D	Property Damage	20201212	0:52:00	355	MD	18.95	FREDERICK RD	0	Feet	2,359	со	COLLINS DR

YEAR	JUNCTION	COLLISION TYPE	LANE DESC	REPORT NO	REPORT TYPE	ACC_DATE	ACC_TIME	RTE_NO	ROUTE TYPE	LOG MILE	MAINROAD NAME	DISTANCE	FEET/MILES	REFERENCE	REFERENCE TYPE	REFERENCE ROAD NAME
2020	Intersection	Other	Right Turn Lane	MCP30750023	Injury Crash	20190210	21:43:00	6,377	со	0.227	GERMANTOWN RD	0		0	UU	SHAKESPEARE BLVD
2020	Intersection	Head On Left Turn	Right Turn Lane	MCP3154000G	Injury Crash	20180901	19:54:00	6,377	со	0.227	GERMANTOWN RD	0		0	UU	SHAKESPEARE BLVD
2019	Intersection Related	Same Direction Rear End	Right Turn Lane	MCP1453003T	Injury Crash	20170223	7:37:00	6,377	со	0.227	GERMANTOWN RD	50		0	UU	SHAKESPEARE BLVD
2015	Intersection	Single Vehicle		MCP28820028	Injury Crash	20180727	15:20:00	6,377	со	0.227	GERMANTOWN RD	0		0	UU	SHAKESPEARE BLVD
2015	Intersection Related	Single Vehicle		MCP1020001V	Injury Crash	20161123	9:56:00	6,377	со	0.227	GERMANTOWN RD	10		0	UU	SHAKESPEARE BLVD
2017	Intersection	Single Vehicle	Right Turn Lane	MCP2790000V	Injury Crash	20160115	20:40:00	6,377	со	0.227	GERMANTOWN RD	0		0	UU	SHAKESPEARE BLVD
2018	Intersection	Same Direction Rear End	Right Turn Lane	MCP3024001P	Injury Crash	20191127	17:34:00	6,377	со	0.227	GERMANTOWN RD	0	Feet	0	UU	SHAKESPEARE BLVD
2017	Intersection	Same Direction Rear End		MCP2950001C	Injury Crash	20170429	21:53:00	6,377	со	0.227	GERMANTOWN RD	0		0	UU	SHAKESPEARE BLVD
2015	Non Intersection	Same Direction Rear End	Right Turn Lane	MCP26740029	Injury Crash	20210420	16:15:00	6,377	со	0.227	GERMANTOWN RD	50	Feet	0	UU	SHAKESPEARE BLVD
2018	Non Intersection	Other	Right Turn Lane	MCP24980011	Property Damage	20170624	0:17:00	6,377	со	0.227	GERMANTOWN RD	0.01		0	UU	SHAKESPEARE BLVD
2018	Intersection Related	Same Direction Rear End	Right Turn Lane	MCP2088000Y	Property Damage	20190202	13:48:00	6,377	со	0.227	GERMANTOWN RD	5		0	UU	SHAKESPEARE BLVD
2017	Intersection Related	Same Direction Rear End	Right Turn Lane	MCP229800V7	Property Damage	20210128	14:08:00	6,377	со	0.227	GERMANTOWN RD	5	Feet	0	UU	SHAKESPEARE BLVD
2019	Not Applicable	Single Vehicle	Right Turn Lane	MCP2882001F		20151124	16:32:00	6,377	со	0.227	GERMANTOWN RD	50		0	UU	SHAKESPEARE BLVD
2015	Non Intersection	Same Direction Rear End	Right Turn Lane	MCP2882000T		20150415	18:28:00	6,377	со	0.227	GERMANTOWN RD	3			UU	SHAKESPEARE BLVD
2018	Intersection Related	Same Direction Rear End	Right Turn Lane	MCP1501000F		20150116	8:35:00	6,377	со	0.227	GERMANTOWN RD	1			UU	SHAKESPEARE BLVD
2015	Intersection	Same Movement Angle	Left Turn Lane	MCP2893002S	Injury Crash	20170312	7:56:00	118	MD	7.08	GERMANTOWN RD	0		355	MD	FREDERICK RD
2018	Not Applicable	Other		MCP20720015	Injury Crash	20161023	10:26:00	118	MD	7.08	GERMANTOWN RD	100		355	MD	FREDERICK RD
2015	Intersection	Same Movement Angle		MCP2825000R	Injury Crash	20170423	2:11:00	118	MD	7.08	GERMANTOWN RD	0		355	MD	FREDERICK RD
2016	Intersection	Same Direction Rear End		MCP30090010	Injury Crash	20180708	10:05:00	118	MD	7.08	GERMANTOWN RD	0		355	MD	FREDERICK RD
2016	Intersection	Same Direction Rear End	Right Turn Lane	MCP3201001Q	Injury Crash	20201228	14:23:00	118	MD	7.08	GERMANTOWN RD	0	Feet	355	MD	FREDERICK RD
2016	Intersection	Same Direction Rear End	Acceleration Lane	MCP28980032	Injury Crash	20201126	20:30:00	118	MD	7.08	GERMANTOWN RD	0	Feet	355	MD	FREDERICK RD
2016	Not Applicable	Same Direction Rear End	Deceleration Lane	MCP2921003X	Property Damage	20200915	20:01:00	118	MD	7.08	GERMANTOWN RD	250	Feet	355	MD	FREDERICK RD
2019	Non Intersection	Same Direction Rear End	Acceleration Lane	MCP2881003B	Property Damage	20200801	23:26:00	118	MD	7.08	GERMANTOWN RD	1	Feet	355	MD	FREDERICK RD
2015	Intersection	Same Movement Angle	Right Turn Lane	MCP2950001B	Property Damage	20170402	22:32:00	118	MD	7.08	GERMANTOWN RD	0		355	MD	FREDERICK RD
2018	Non Intersection	Same Direction Sideswipe	Right Turn Lane	MCP3061000W	Property Damage	20180123	7:15:00	118	MD	7.08	GERMANTOWN RD	300		355	MD	FREDERICK RD
2019	Intersection	Same Direction Rear End	Left Turn Lane	MCP30610012	Property Damage	20180901	2:20:00	118	MD	7.08	GERMANTOWN RD	0		355	MD	FREDERICK RD
2020	Intersection	Single Vehicle	Right Turn Lane	MCP30710015	Property Damage	20190107	2:53:00	118	MD	7.08	GERMANTOWN RD	0		355	MD	FREDERICK RD
2017	Non Intersection	Same Direction Rear End	Left Turn Lane	MCP2921002F	Property Damage	20180404	20:18:00	118	MD	7.08	GERMANTOWN RD	5		355	MD	FREDERICK RD
2017	Interchange Related	Same Direction Rear End	Right Turn Lane	MCP1030000J	Property Damage	20161109	7:36:00	118	MD	7.08	GERMANTOWN RD	2		6,377	со	GERMANTOWN RD
2017	Intersection	Same Movement Angle		MCP102200CV	Property Damage	20190731	8:46:00	118	MD	7.08	GERMANTOWN RD	0		355	MD	FREDERICK RD
2019	Intersection	Same Direction Rear End		MCP2516001Y	Property Damage	20180714	13:44:00	118	MD	7.08	GERMANTOWN RD	0		355	MD	FREDERICK RD
2017	Intersection Related	Same Direction Rear End	Right Turn Lane	MCP3037002Z	Property Damage	20200221	17:34:00	118	MD	7.08	GERMANTOWN RD	50	Feet	355	MD	FREDERICK RD
2017	Intersection	Same Movement Angle	Right Turn Lane	MCP2893003B	Property Damage	20171107	18:43:00	118	MD	7.08	GERMANTOWN RD	0		355	MD	FREDERICK RD
2015	Intersection	Same Direction Rear End Right Turn	Acceleration Lane	MCP3022000K	Property Damage	20170428	16:14:00	118	MD	7.08	GERMANTOWN RD	0		355	MD	FREDERICK RD
2019	Not Applicable	Same Direction Rear End	Deceleration Lane	MCP2921002X	Property Damage	20190120	18:54:00	118	MD	7.08	GERMANTOWN RD	30		355	MD	FREDERICK RD
2018	Intersection Related	Same Movement Angle	Right Turn Lane	MCP2445002G	Property Damage	20210425	8:03:00	118	MD	7.08	GERMANTOWN RD	120	Feet	355	MD	FREDERICK RD
2020	Intersection	Other	Right Turn Lane	MCP2590000L		20150129	23:36:00	118	MD	7.08	GERMANTOWN RD	0		355	MD	FREDERICK RD
2020	Intersection	Other		MCP13970005		20150122	7:27:00	118	MD	7.08	GERMANTOWN RD	0		355	MD	FREDERICK RD
2021	Intersection	Same Direction Rear End	Left Turn Lane	MCP2790000J		20150219	23:54:00	118	MD	7.08	GERMANTOWN RD	0		355	MD	FREDERICK RD
2021	Non Intersection	Same Direction Rear End Left Turn	Right Turn Lane	MCP2072000D		20150204	11:29:00	118	MD	7.08	GERMANTOWN RD	100		355	MD	FREDERICK RD
2021	Intersection	Same Direction Rear End Right Turn		MCP25720005		20150511	19:24:00	118	MD	7.08	GERMANTOWN RD	0		355	MD	FREDERICK RD

YEAR	JUNCTION	COLLISION TYPE	LANE DESC	REPORT NO	REPORT TYPE	ACC_DATE	ACC_TIME	RTE_NO	ROUTE TYPE	LOG MILE	MAINROAD NAME	DISTANCE	FEET/MILES	REFERENCE NO	REFERENCE TYPE	REFERENCE ROAD NAME
2019	Not Applicable	Single Vehicle	Right Turn Lane	MCP20720030	Injury Crash	20190817	7:48:00	6136	со	0.97	SHAKESPEARE BLVD	10		25	CO	NEELSVILLE CHURCH RD
2019	Intersection Related	Single Vehicle	Right Turn Lane	MCP20880011	Property Damage	20190320	10:31:00	6136	со	0.97	SHAKESPEARE BLVD	50		25	со	NEELSVILLE CHURCH RD
2018	Intersection	Same Direction Rear End	Right Turn Lane	MCP3022001W	Property Damage	20180527	17:58:00			0	SHAKESPEARE BLVD	0				GERMANTOWN ROAD
2017	Non Intersection	Single Vehicle	Right Turn Lane	MCP9133001H	Property Damage	20170429	6:40:00	6136	со	0.97	SHAKESPEARE BLVD	0.1		25	CO	NEELSVILLE CHURCH RD
2016	Intersection	Same Direction Sideswipe		MCP1453002M	Property Damage	20160202	8:06:00			0	SHAKESPEARE BLVD	0				GERMANTOWN RD

YEAR	JUNCTION	COLLISION TYPE	LANE DESC	REPORT NO	REPORT TYPE	ACC_DATE	ACC_TIME	RTE_NO	ROUTE TYPE	LOG MILE	MAINROAD NAME	DISTANCE	FEET/MILES	REFERENCE NO	REFERENCE TYPE	REFERENCE ROAD NAME
2015	Non Intersection	Single Vehicle	Right Turn Lane	MCP2950000N		20151024	21:09:00	25	со	0.35	NEELSVILLE CHURCH RD			6,136	со	SHAKESPEARE BLVD
2016	Non Intersection	Same Direction Rear End	Right Turn Lane	MCP2962000W	Property Damage	20161226	2:50:00			0.35	NEELSVILLE CHURCH RD			6,136	со	SHAKESPEARE BLVD
2019	Intersection	Same Movement Angle	Right Turn Lane	MCP102200CS	Injury Crash	20190718	14:40:00	25	со	0.35	NEELSVILLE CHURCH RD	0		6,136	со	SHAKESPEARE BLVD
2019	Intersection	Same Movement Angle	Right Turn Lane	MCP3037002N	Injury Crash	20190424	20:20:00	25	со	0	NEELSVILLE CHURCH RD	0		355	MD	FREDERICK RD

MD 355 Southbound 300 Feet North of Neelsville Church Road Montgomery County, Maryland

The Traffic Group, Inc. (800) 583-8411 www.trafficgroup.com Merging Innovation and Excellence

SB1, SB2 Start 0 6 11 16 21 26 31 36 41 46 51 56 61 66 7 Time 5 10 15 20 25 30 35 40 45 50 55 60 65 70 25 10/06/21 0 0 0 1 1 7 8 16 24 7 4 0 2 0 01/06/21 0 0 1 1 7 8 16 24 7 4 0 2 0 0 1 4 12 8 7 4 1 0 0 1 0 0 2 8 17 7 5 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	70
Time 5 10 15 20 25 30 35 40 45 50 55 60 65 70 25 10/06/21 0 0 0 1 1 7 8 16 24 7 4 0 2 0 01:00 0 0 0 1 0 1 4 12 8 7 4 1 0 0 02:00 0 0 1 2 0 0 0 4 7 7 0 0 1 0	70
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	70
01:00 0 0 1 0 1 4 12 8 7 4 1 0 0 02:00 0 0 1 2 0 0 0 4 7 7 0 0 1 0 03:00 0 0 1 1 0 1 2 8 17 7 5 1 0 0 04:00 0 0 2 2 0 2 4 21 21 15 4 4 2 0 05:00 0 0 4 5 0 2 12 36 71 51 31 11 3 0 06:00 0 11 11 4 15 29 103 208 147 56 11 1 2 07:00 0 36 32 29 68 204 426 408 182 33 7 1 1 08:00 0 0 18 45	
02:00 0 0 1 2 0 0 0 4 7 7 0 0 1 0 03:00 0 0 1 1 0 1 2 8 17 7 5 1 0 0 04:00 0 0 2 2 0 2 4 21 21 15 4 4 2 0 05:00 0 0 4 5 0 2 12 36 71 51 31 11 3 0 06:00 0 0 11 11 4 15 29 103 208 147 56 11 1 2 07:00 0 0 36 32 29 68 204 426 408 182 33 7 1 1 1 2 08:00 0 0 18 45 43 112 262 452 364 107 23 3 0 0 <	38
03:00 0 0 1 1 0 1 2 8 17 7 5 1 0 0 04:00 0 0 2 2 0 2 4 21 21 15 4 4 2 0 05:00 0 0 4 5 0 2 12 36 71 51 31 11 3 0 06:00 0 0 11 11 4 15 29 103 208 147 56 11 1 2 07:00 0 0 36 32 29 68 204 426 408 182 33 7 1 1 08:00 0 0 18 45 43 112 262 452 364 107 23 3 0 0 09:00 0 1 33 51 10 23 87 245 371 206 57 10 4 0	50
04:00 0 0 2 2 0 2 4 21 21 15 4 4 2 0 05:00 0 0 4 5 0 2 12 36 71 51 31 11 3 0 06:00 0 0 11 11 4 15 29 103 208 147 56 11 1 2 07:00 0 0 36 32 29 68 204 426 408 182 33 7 1 1 08:00 0 0 18 45 43 112 262 452 364 107 23 3 0 0 09:00 0 1 33 51 10 23 87 245 371 206 57 10 4 0	
05:00 0 0 4 5 0 2 12 36 71 51 31 11 3 0 06:00 0 0 11 11 4 15 29 103 208 147 56 11 1 2 07:00 0 0 36 32 29 68 204 426 408 182 33 7 1 1 08:00 0 0 18 45 43 112 262 452 364 107 23 3 0 0 09:00 0 1 33 51 10 23 87 245 371 206 57 10 4 0	43
06:000011114152910320814756111207:0000363229682044264081823371108:00001845431122624523641072330009:00013351102387245371206571040	77
07:0000363229682044264081823371108:00001845431122624523641072330009:00013351102387245371206571040	226
08:00 0 18 45 43 112 262 452 364 107 23 3 0 0 09:00 0 1 33 51 10 23 87 245 371 206 57 10 4 0	599
09:00 0 1 33 51 10 23 87 245 371 206 57 10 4 0	1427
	1429
	1098
10:00 0 3 31 42 8 22 87 270 368 167 48 7 1 0	1054
11:00 0 0 30 36 10 43 136 350 390 145 40 8 4 0	1192
12 PM 0 1 25 47 10 22 136 366 315 116 17 7 0 0	1062
13:00 0 0 19 30 5 30 104 344 318 141 40 7 0 0	1038
14:00 0 0 25 43 7 36 126 405 295 137 33 4 2 1	1114
15:00 0 0 20 46 10 38 173 354 339 117 24 10 0 0	1131
16:00 0 0 35 45 19 63 194 414 330 127 29 7 2 0	1265
17:00 0 0 32 49 9 53 171 393 339 130 25 10 1 1	1213
18:00 0 0 26 36 11 58 195 397 320 124 33 5 1 0	1206
19:00 0 0 20 39 13 52 179 354 222 65 30 8 3 0	985
20:00 0 0 18 26 13 31 104 223 211 79 18 6 3 0	732
21:00 0 0 8 11 3 26 91 135 118 55 14 4 1 0	466
22:00 0 0 9 11 5 8 38 104 92 28 11 2 0 0	
<u>23:00 0 0 2 0 0 5 20 42 50 17 5 3 0 0</u>	310
Total 0 5 406 612 210 718 2366 5474 5206 2184 584 136 32 5	310

Page 1

MD 355 Southbound 300 Feet North of Neelsville Church Road Montgomery County, Maryland

The Traffic Group, Inc. (800) 583-8411

www.trafficgroup.com Merging Innovation and Excellence

SB1, SB2						Merg	ging Inno	anon ana	Excellenc	Ľ						
Start	0	6	11	16	21	26	31	36	41	46	51	56	61	66	71	
Time	5	10	15	20	25	30	35	40	45	50	55	60	65	70	250	Total
10/07/21	0	0	0	3	1	3	6	19	11	11	4	2	0	1	1	62
01:00	0	0	1	4	2	1	1	9	9	7	2	2	1	0	0	39
02:00	0	0	0	1	1	1	2	7	11	6	2	1	0	0	0	32
03:00	0	0	1	2	0	0	0	4	6	5	3	0	0	0	0	21
04:00	0	0	2	4	0	0	1	23	32	18	7	6	1	1	0	95
05:00	0	0	4	2	1	1	14	37	71	66	27	7	1	0	1	232
06:00	0	0	4	16	1	9	22	149	198	157	71	12	3	0	0	642
07:00	0	1	21	32	15	77	204	383	427	285	68	15	6	1	0	1535
08:00	0	1	33	56	49	94	213	492	427	211	50	13	0	0	0	1639
09:00	0	0	23	40	6	19	79	265	379	211	54	16	3	0	0	1095
10:00	0	0	27	23	1	22	98	289	298	122	43	11	6	0	0	940
11:00	0	1	24	46	10	23	91	273	339	138	44	8	1	0	0	998
12 PM	0	0	24	25	7	12	84	343	346	158	49	13	4	1	0	1066
13:00	0	0	21	35	4	29	109	347	328	131	47	6	4	3	0	1064
14:00	0	0	17	38	9	34	120	303	349	160	42	8	1	0	0	1081
15:00	0	0	13	45	12	34	152	397	358	116	24	10	1	0	0	1162
16:00	0	0	27	45	13	33	127	323	349	148	39	11	1	1	0	1117
17:00	0	0	28	51	16	41	183	396	364	115	40	10	2	1	1	1248
18:00	0	2	25	43	6	51	201	402	337	102	27	7	1	0	0	1204
19:00	0	0	19	41	13	50	209	381	222	78	14	2	0	0	0	1029
20:00	0	0	20 4	19 15	11 11	33	145 64	249	185 135	70 71	21	4	3 1	0	0	760
21:00	-	-				20		141			21		-	•		488 311
22:00 23:00	0	0	5 1	12 1	0	5 5	55 20	91 52	79 62	32 18	13 7	9 2	4	4	2 0	169
 Total	0	5	344	599	190	597	2200	5375	5322	2436	719	179	44	14	5	18029
TUldi	0	5	344	599	190	597	2200	5575	5522	2430	719	175	44	14	J	10029
Grand															-	
Total	0	10	750	1211	400	1315	4566	10849	10528	4620	1303	315	76	19	8	35970
Stats	Number	50th 85th 95th 10 MPH P Numb Perce of Vehicles	a Percentile : a Percentile : a Percentile : a Percentile : d(Average) : ace Speed : ber in Pace : > 45 MPH : > 45 MPH :	39 46 49 39 36-45	MPH MPH MPH MPH 21377 59,4% 6341 17.6%											

MD 355 Northbound 300 Feet North of Neelsville Church Road Montgomery County, Maryland

The Traffic Group, Inc. (800) 583-8411 www.trafficgroup.com Merging Innovation and Excellence

						111018	ing milov	unon unu	LACEMENC	Þ						
<u>NB1, NB2</u>																
Start	0	6	11	16	21	26	31	36	41	46	51	56	61	66	71	
Time	5	10	15	20	25	30	35	40	45	50	55	60	65	70	250	Total
10/06/21	0	0	0	0	0	4	8	16	12	12	3	2	0	1	0	58
01:00	0	0	0	0	0	2	7	10	7	4	0	1	0	0	0	31
02:00	0	0	0	0	0	1	0	3	8	4	4	0	0	0	0	20
03:00	0	0	0	0	0	2	3	11	7	8	3	0	1	0	0	35
04:00	0	0	0	0	0	3	4	10	11	12	3	4	1	0	1	49
05:00	0	0	0	0	0	1	6	19	42	36	9	4	1	1	0	119
06:00	0	0	0	0	2	9	40	90	108	71	18	5	2	0	0	345
07:00	0	0	0	0	8	36	130	219	153	44	14	4	1	0	0	609
08:00	0	1	1	9	22	66	208	262	132	41	10	1	0	0	0	753
09:00	0	0	1	2	9	26	120	274	206	83	23	8	0	0	0	752
10:00	0	0	0	0	0	34	121	229	251	112	24	13	0	0	0	784
11:00	0	0	0	0	9	31	173	360	323	136	23	7	2	0	0	1064
12 PM	0	0	0	0	3	46	175	356	266	67	22	5	0	0	0	940
13:00	0	0	10	3	3	37	156	325	276	127	31	3	3	0	1	975
14:00	0	0	0	0	5	67	214	413	273	90	28	2	0	0	0	1092
15:00	0	0	0	0	10	82	283	534	365	90	20	4	0	0	0	1388
16:00	0	7	8	33	48	147	478	571	285	83	18	5	2	0	0	1685
17:00	0	0	0	6	55	165	486	643	264	67	12	2	0	0	1	1701
18:00	0	0	3	8	24	76	314	558	274	62	11	3	1	1	0	1335
19:00	0	0	0	0	3	53	235	372	231	77	23	7	1	0	0	1002
20:00	0	0	1	1	3	28	114	225	160	82	19	5	1	0	0	639
21:00	0	0	0	0	0	9	47	153	136	68	14	3	0	0	2	432
22:00	0	0	0	0	2	8	28	70	77	42	11	2	1	1	1	243
23:00	0	0	0	0	1	2	14	44	37	23	4	4	0	0	0	129
Total	0	8	24	62	207	935	3364	5767	3904	1441	347	94	17	4	6	16180

Page 1

MD 355 Northbound 300 Feet North of Neelsville Church Road Montgomery County, Maryland

The Traffic Group, Inc. (800) 583-8411

www.trafficgroup.com Merging Innovation and Excellence

NB1, NB2						Mer	ging Inno	vation ana	Excellenc	е						
Start	0	6	11	16	21	26	31	36	41	46	51	56	61	66	71	
Time	5	10	15	20	25	30	35	40	45	50	55	60	65	70	250	Total
10/07/21	0	0	0	0	1	0	9	19	21	10	3	1	0	1	0	65
01:00	0	0	0	0	0	1	5	12	9	4	2	0	1	0	0	34
02:00	0	0	0	0	0	2	1	6	8	7	2	0	0	0	0	26
03:00	0	0	0	0	0	0	5	4	6	1	1	0	1	1	0	19
04:00	0	0	0	1	1	1	2	8	11	9	6	2	1	0	0	42
05:00	0	0	0	0	0	2	10	21	41	35	19	2	3	0	0	133
06:00	0	0	0	0	1	6	25	95	125	63	22	8	4	0	0	349
07:00	0	0	0	0	5	14	82	186	175	81	33	7	2	0	0	585
08:00	0	0	0	1	9	43	102	235	210	86	35	11	4	0	0	736
09:00	0	0	0	1	5	22	132	233	195	94	34	6	0	0	0	722
10:00	0	0	0	0	1	32	116	271	204	94	27	4	1	0	0	750
11:00	0	0	0	0	2	40	165	317	237	116	22	6	0	1	2	908
12 PM	0	1	0	3	17	56	175	320	265	99	45	7	2	2	0	992
13:00	0	0	0	0	9	48	174	347	302	101	26	3	2	1	0	1013
14:00	0	0	0	1	7	24	205	354	332	120	27	9	2	0	1	1082
15:00	0	0	0	2	24	81	279	558	301	116	16	3	1	1	0	1382
16:00	0	0	0	0	21	68	266	606	417	135	24	6	0	1	0	1544
17:00	0	0	3	23	42	124	441	619	272	91	15	2	0	0	3	1635
18:00	0	0	4	7	29	108	303	505	319	111	17	3	0	0	0	1406
19:00	0	1	3	3	17	46	199	349	230	78	25	4	0	0	0	955
20:00	0	0	1	1	6	26	121	263	214	66	11	5	1	1	0	716
21:00	0	0	0	0	0	7	62	153	153	69	21	7	1	1	1	475
22:00	0	0	0	0	1	6	27	70	80	35	11	4	0	0	0	234
23:00	0	0	0	0	0	3	17	39	56	26	3	3	2	0	1	150
Total	0	2	11	43	198	760	2923	5590	4183	1647	447	103	28	10	8	15953
Grand	•	40	05	105	405	4005	000 7	44057	0007		70.4	407	45			00400
Total	0	10	35	105	405	1695	6287	11357	8087	3088	794	197	45	14	14	32133
Stats		50th 85th 95th Mean Speed 10 MPH P Numb	ace Speed : per in Pace :	38 44 49 39 36-45	19444											
	Number	of Vehicles	ent in Pace :		60.5% 4152											
		of Vehicles			12.9%											

Page 1

The Traffic Group, Inc. (800) 583-8411

Neelsville Church Road East of Church Access Montgomery County, Maryland

www.trafficgroup.com Merging Innovation and Excellence

						Mergi	ng innova	non ana E	xcellence							
Eastbound																
Start	0	6	11	16	21	26	31	36	41	46	51	56	61	66	71	
Time	5	10	15	20	25	30	35	40	45	50	55	60	65	70	250	Total
10/06/21	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
01:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
04:00	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	3
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00	0	0	0	4	5	1	0	0	0	0	0	0	0	0	0	10
07:00	0	0	7	51	51	4	0	0	0	0	0	0	0	0	0	113
08:00	0	2	11	28	16	5	3	1	1	0	0	0	0	0	0	67
09:00	0	0	1	1	7	4	6	0	0	0	0	0	0	0	0	19
10:00	0	0	0	6	6	1	2	1	0	0	0	0	0	0	0	16
11:00	0	0	1	4	8	5	6	0	0	0	0	0	0	0	0	24
12 PM	0	0	1	5	14	2	2	1	0	0	0	0	0	0	0	25
13:00	0	0	0	4	10	5	3	1	0	0	0	0	0	0	0	23
14:00	0	10	8	15	16	6	0	0	0	0	0	0	0	0	0	55
15:00	0	0	0	7	10	4	5	1	0	0	0	0	0	0	0	27
16:00	0	0	1	7	4	8	4	3	0	0	0	0	0	0	0	27
17:00	0	0	0	12	8	4	2	4	0	0	0	0	0	0	0	30
18:00	0	0	1	4	7	6	3	1	0	0	0	0	0	0	0	22
19:00	0	0	2	4	5	2	1	1	0	0	0	0	0	0	0	15
20:00	0	0	0	3	7	7	1	0	0	0	0	0	0	0	0	18
21:00	0	0	2	2	6	0	1	0	0	0	0	0	0	0	0	11
22:00	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	3
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	13	35	160	186	65	39	14	1	0	0	0	0	0	0	513

The Traffic Group, Inc. (800) 583-8411

Neelsville Church Road East of Church Access Montgomery County, Maryland

www.trafficgroup.com Merging Innovation and Excellence

Eastbound						Merg	ing Innova	itton ana E	xcellence							
Start	0	6	11	16	21	26	31	36	41	46	51	56	61	66	71	
Time	5	10	15	20	25	30	35	40	45	50	55	60	65	70	250	Total
10/07/21	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
01:00	Ő	Ő	Ő	Õ	0	0	0	0	0	0	Ő	Ő	Ő	Ő	0	Ó
02:00	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
05:00	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
06:00	0	0	1	6	2	0	0	0	0	0	0	0	0	0	0	9
07:00	0	0	7	38	54	6	0	0	0	0	0	0	0	0	0	105
08:00	0	0	9	35	17	4	2	1	0	0	0	0	0	0	0	68
09:00	0	0	0	5	2	1	2	1	0	0	0	0	0	0	0	11
10:00	0	0	0	2	8	4	1	0	0	0	0	0	0	0	0	15
11:00	0	0	1	5	7	3	4	1	0	0	0	0	0	0	0	21
12 PM	0	0	0	11	10	0	2	1	0	0	0	0	0	0	0	24
13:00	0	0	1	5	6	3	0	1	0	0	0	0	0	0	0	16
14:00	0	6	9	14	16	5	1	0	0	0	0	0	0	0	0	51
15:00	0	1	6	7	6	6	2	0	0	0	0	0	0	0	0	28
16:00	0	0	1	9	4	6	6	1	0	0	0	0	0	0	0	27
17:00	0	0	3	9	12	10	4	2	0	0	0	0	0	0	0	40
18:00	0	0	1	7	5	7	1	0	0	0	0	0	0	0	0	21
19:00	0	0	0	0	3	3	2	1	1	0	0	0	0	0	0	10
20:00	0	0	0	0	1	2	2	0	0	0	0	0	0	0	0	5
21:00	0	0	0	3	0	2	1	0	0	0	0	0	0	0	0	6
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	7	39	158	154	63	31	9	1	0	0	0	0	0	0	462
Grand																
Total	0	20	74	318	340	128	70	23	2	0	0	0	0	0	0	975
10141																
Stats		15th	Percentile :	15	5 MPH											
		50th	Percentile :	21	MPH											
			Percentile :	27	' MPH											
		95th	Percentile :	33	8 MPH											
			d(Average) :		MPH											
			ace Speed :	16-25												
			er in Pace :		658											
	N Is see a la se		ent in Pace :	(67.5%											
			> 25 MPH :		223											
	Percent	or venicies	> 25 MPH :	2	22.9%											

Page 2

Page 3

The Traffic Group, Inc. (800) 583-8411

Neelsville Church Road East of Church Access Montgomery County, Maryland

www.trafficgroup.com Merging Innovation and Excellence

						Mergi	ng innova	ttion ana E	xcellence							
Westbound				10						10	= 4	50	0.1			
Start	0	6	11	16	21	26	31	36	41	46	51	56	61	66	71	
Time	5	10	15	20	25	30	35	40	45	50	55	60	65	70	250	Total
10/06/21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
02:00	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	3
05:00	0	0	0	0	0	3	2	1	1	0	0	0	0	0	0	7
06:00	0	0	0	2	3	6	6	3	2	0	0	0	0	0	0	22
07:00	0	0	1	5	25	5	6	4	1	0	0	0	0	0	0	47
08:00	0	0	0	12	36	17	3	2	0	0	0	0	0	0	0	70
09:00	0	0	0	1	3	1	4	3	1	0	0	0	0	0	0	13
10:00	0	0	0	0	5	3	2	3	1	0	0	0	0	0	0	14
11:00	0	0	0	5	8	3	3	2	1	0	0	0	0	0	0	22
12 PM	0	0	0	2	9	7	1	6	0	0	0	0	0	0	0	25
13:00	0	0	0	3	12	2	2	0	0	0	0	0	0	0	0	19
14:00	0	0	0	5	21	8	3	0	0	0	0	0	0	0	0	37
15:00	0	0	1	7	51	19	0	0	0	0	0	0	0	0	0	78
16:00	0	0	0	3	17	6	2	3	0	0	0	0	0	0	0	31
17:00	0	0	0	5	17	3	0	1	0	0	0	0	0	0	0	26
18:00	0	1	0	2	12	4	3	1	0	0	0	0	0	0	0	23
19:00	0	0	0	2	11	2	2	1	0	0	0	0	0	0	0	18
20:00	0	0	1	0	1	2	1	0	0	0	0	0	0	0	0	5
21:00	0	0	0	1	3	4	0	2	1	0	0	0	0	0	0	11
22:00	0	0	0	2	1	2	1	1	1	0	0	0	0	0	0	8
23:00	0	0	0	3	1	4	1	0	0	0	0	0	0	0	0	9
Total	0	1	3	60	238	102	44	34	9	0	0	0	0	0	0	491

The Traffic Group, Inc. (800) 583-8411

Neelsville Church Road East of Church Access Montgomery County, Maryland

(800) 585-8411 www.trafficgroup.com Merging Innovation and Excellence

Westbound						Mergi	ng Innova	uion ana r	xcenence							
Start	0	6	11	16	21	26	31	36	41	46	51	56	61	66	71	
Time	5	10	15	20	25	30	35	40	45	40 50	55	60	65	70	250	Total
10/07/21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	Ő	Õ	Ő	Õ	Ő	Ő	Ő	Ő	0	Ő	0	Ő	0	Õ	0	Ő
02:00	0	0	0	0	0	0	0 0	0 0	0	0 0	0	0	Ũ	0	0	0
03:00	0	0	0	0	Ő	0	0	Ő	Ő	Ő	Ő	0	0	Ő	0	0
04:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
05:00	0	0	0	0	0	1	5	1	0	0	0	0	0	0	0	7
06:00	0	0	0	1	3	5	8	5	1	0	0	0	0	0	0	23
07:00	0	0	0	3	24	9	4	2	0	0	0	0	0	0	0	42
08:00	0	0	0	20	33	13	3	0	2	1	0	0	0	0	0	72
09:00	0	0	1	0	7	1	4	6	2	0	0	0	0	0	0	21
10:00	0	0	0	0	2	3	2	4	0	0	0	0	0	0	0	11
11:00	0	0	0	2	7	6	5	0	0	0	0	0	0	0	0	20
12 PM	0	0	0	5	11	5	0	1	0	0	0	0	0	0	0	22
13:00	0	0	0	3	4	1	2	1	1	0	0	0	0	0	0	12
14:00	0	0	0	6	28	5	3	2	0	0	0	0	0	0	0	44
15:00	0	0	1	9	52	13	5	0	1	0	0	0	0	0	0	81
16:00	0	0	0	6	24	4	2 3	0	0	0	0	0	0	0	0	36
17:00	0	0	0	4	19	3		1	0	0	0	0	0	0	0	30
18:00	0	0	0	3	6	4	2	2	0	0	0	0	0	0	0	17
19:00	0	0	0	1	9	0	0	0	0	0	0	0	0	0	0	10
20:00	0	0	1	0	1	1	0	1	0	0	0	0	0	0	0	4
21:00	0	0	0	-	0	0	0	0	1	0	0	0	0	0	0	2
22:00	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2
23:00 Total	0	0	0	0 65	0 230	<u>1</u> 76	<u> </u>	27	08	0	0	0	0	0	0	<u>2</u> 459
Total	0	0	3	00	230	/0	49	21	0		0	0	0	0	0	459
Grand	•										•				•	
Total	0	1	6	125	468	178	93	61	17	1	0	0	0	0	0	950
Stats	Number o	50th 85th 95th Mean Speed 10 MPH Pa Numb Perce of Vehicles 3	Percentile : Percentile : Percentile : Percentile : d(Average) : ace Speed : er in Pace : er in Pace : > 25 MPH : > 25 MPH :	23 31 37 26 21-30	MPH MPH MPH MPH MPH 646 58.0% 350 36.8%											