

July 15, 2021

NEX-2021120.00

Mr. Peter Mahoney
JMC/TBG Lunenburg LLC
c/o John M. Corcoran & Co. LLC
100 Grandview Road, Suite 203
Braintree, Massachusetts 02184

SUBJECT: Trip Generation and Site Access Letter
Industrial Development
535 Leominster Shirley Road
Lunenburg, Massachusetts

Dear Mr. Mahoney:

Greenman-Pedersen Inc. (GPI) has prepared this letter to evaluate the expected trips, existing collision history, and site access associated with the proposed industrial development to be located at 535 Leominster Shirley Road (pending Town designation) in Lunenburg, Massachusetts. The site is currently vacant. As currently envisioned, the development would include constructing a ±372,000 square foot (SF) building for use as a warehouse and distribution facility. Access to the site is proposed via one access-only driveway and one egress-only driveway on Leominster Shirley Road. The site location in relation to the surrounding roadways is shown on the map on Figure 1.

Existing Conditions

Geometry

Leominster Shirley Road in the vicinity of the site is under the jurisdiction of the Town of Lunenburg and is classified as an urban minor arterial. Leominster Shirley Road is an east-west roadway and has a posted speed limit of 40 miles per hour (mph). Adjacent to the project site, Leominster Shirley Road provides one lane in each direction and directional travel is separated by a double yellow center line. In the vicinity of the project site, there are no pedestrian or bicycle accommodations. Land uses along Leominster Shirley Road consist of industrial and deciduous forest.

Collisions

Collision data for the Leominster Shirley Road segment adjacent to the site were obtained from the Massachusetts Department of Transportation (MassDOT) for the latest five years available (2016 through 2020). A summary of the crashes at this segment is provided in Table 1.

In addition to the collision summary, crash occurrence also should be compared to the volume of traffic through a particular classification of roadway to determine any significance. Accordingly, the crash rate was calculated for the study area roadway and compared with the statewide and district-wide averages. A roadway segment crash rate is a measure of the frequency of collisions compared to the volume of traffic along the roadway and is presented in crashes per million vehicle miles traveled (c/mvmt). A comparison of the calculated crash rate to these averages can be used to establish the significance of collision occurrences and whether potential safety problems exist. The crash rate worksheet is attached to this letter.



FIGURE I
SITE LOCATION MAP

GPI

Greenman-Pedersen, Inc. || 181 Ballardvale Street, Suite 202, Wilmington, MA 01887
INDUSTRIAL DEVELOPMENT – LUNENBURG, MASSACHUSETTS

TABLE 1
Collision Summary

Location	Number of Collisions			Severity ^a			Collision Type ^b			Percent During Wet/Icy Conditions ^e			
	Total	Average per Year	Crash Rate ^c	PD	PI	F	NR	SS	RE	CM	SV	FO	Commuter Peak ^d
Leominster Shirley Road Between Reservoir Road and Shirley Town Line	2	0.4	0.40	—	1	1	—	—	—	—	—	2	0%

Source: MassDOT (2016-2020).

^a PD = property damage only; PI = personal injury; F = fatality, NR = not reported.

^b SS = sideswipe; RE = rear end; CM = cross movement/angle; FO = fixed object; SV = single vehicle; U = unknown.

^c Measured in crashes per million vehicle miles traveled.

^d Percent of vehicle incidents that occurred during the weekday AM (7:00 AM-9:00 AM) and weekday PM (4:00 PM -6:00 PM) commuter peak periods.

^e Represents the percentage of only "known" collisions occurring during inclement weather conditions.

Based on the collision data for the segment adjacent to the proposed site, between Reservoir Road and the Shirley town line, two crashes were reported. Both crashes were single vehicle crashes, one of which was during wet/icy conditions. One crash resulted in injury and the other crash resulted in a fatality. Neither crash occurred during the commuter peak periods. The crash rate for this roadway segment (0.40) c/mvmt) is significantly lower than the statewide (3.49 c/mvmt) average for urban minor arterials and does not indicate a pattern correctable by engineering measures.

Design Conditions

Sight Distance

To identify potential safety concerns associated with site access and egress, sight distances have been evaluated at the proposed site driveway locations to determine if the available sight distances for vehicles exiting the site meet or exceed the minimum distances required for approaching vehicles to safely stop. The available sight distances were compared with minimum requirements, as established by the American Association of State Highway and Transportation Officials (AASHTO)¹. AASHTO is the national standard by which vehicle sight distance is calculated, measured, and reported. The Massachusetts Department of Transportation (MassDOT) and the Executive Office of Energy and Environmental Affairs (EEA) require the use of AASHTO sight distance standards when preparing traffic impact assessments and studies, as stated in their guidelines for traffic impact assessments.

Sight distance is the length of roadway ahead that is visible to the driver. Stopping Sight Distance (SSD) is the minimum distance required for a vehicle traveling at a certain speed to safely stop before reaching a stationary object in its path. The values are based on a driver perception and reaction time of 2.5 seconds and a braking distance calculated for wet, level pavements. When the roadway is either on an upgrade or downgrade, grade correction factors are applied. Stopping sight distance is measured from an eye height of 3.5 feet to an object height of 2 feet above street level, equivalent to the taillight height of a passenger car. The SSD is measured along the centerline of the traveled way of the major road.

Intersection sight distance (ISD) is provided on minor street approaches to allow the drivers of stopped vehicles a sufficient view of the major roadway to decide when to enter the major roadway. By definition, ISD is the minimum distance required for a motorist exiting a minor street to turn onto the major street, without being overtaken by an approaching vehicle reducing its speed from the design speed to 70 percent of the design speed. ISD is measured from an eye height of 3.5 feet to an object height of 3.5 feet above street level. For trucks, the measured eye height is 7.6 feet above street level. The use of an object height equal to the driver eye height makes intersection sight distances reciprocal (i.e., if one driver can see another vehicle, then the driver of that vehicle can also see the first vehicle). When the minor street is on an upgrade that exceeds 3 percent, grade correction factors are applied.

SSD is generally more important as it represents the minimum distance required for safe stopping while ISD is based only upon acceptable speed reductions to the approaching traffic stream. The ISD, however, must be equal to or greater than the minimum required SSD in order to provide safe operations at the intersection. In accordance with the AASHTO manual, *"If the available sight distance for an entering or crossing vehicle is at least equal to the appropriate stopping sight distance for the major road, then drivers have sufficient sight distance to anticipate and avoid collisions. However, in some cases, this may require a major-road vehicle to stop or slow to accommodate the maneuver by a minor-road vehicle. To enhance traffic operations, intersection sight distances that exceed stopping sight distances are desirable along the major road."* Accordingly, ISD should be at least equal to the distance required to allow a driver approaching the minor road to safely stop.

¹ A Policy on Geometric Design of Highways and Streets; American Association of State Highway and Transportation Officials (AASHTO); 2018.

The available SSD and ISD at the proposed site driveway location were measured and compared to minimum requirements as established by AASHTO. The average speeds along Leominster Shirley Road were found to be 42 mph in the eastbound direction and 41 mph in the westbound direction with the 85th percentile speeds of 47 mph in the eastbound direction and 45 mph in the westbound direction. Based on the posted and observed speeds, the SSD and ISD requirements were calculated. The sight distance calculations are attached to this letter. The required minimum sight distances at the proposed site driveway are compared to the available distances as shown in Table 2.

TABLE 2
Sight Distance Summary

Location/Direction	Stopping Sight Distance (feet)		Intersection Sight Distance (feet)		
	Measured	Minimum Required ^a	Measured	Minimum Required ^b	Desirable ^c
Leominster Shirley Road at West (Exit-Only) Site Drive: <i>East of intersection (WB)</i> <i>West of intersection (EB)</i>	500+ 700+	360 400	500+(700+) 700+(700+)	360 400	385(620) 445(680)

^a Values based on AASHTO requirements for minimum SSD based on 85th percentile speeds; 47 mph for eastbound travel and 45 mph for westbound travel on Leominster Shirley Road.

^b Values based on AASHTO requirements for SSD.

^c Values based on AASHTO requirements for ISD for posted speed of 40 mph on Leominster Shirley Road for passenger vehicles and combination trucks. XX(XX) = passenger vehicles (combination trucks). ISD calculations based on two lanes.

As indicated in Table 2, available sight distances at the proposed site driveway on Leominster Shirley Road exceed the minimum and desirable SSD and ISD requirements for safe operation. In addition, it is recommended that any proposed plantings, vegetation, landscaping, and signing along the site frontage be kept low to the ground (no more than 3.0 feet above street level) or set back sufficiently from Leominster Shirley Road so as not to inhibit the available sight lines.

Trip Generation

To estimate the volume of traffic to be generated by the proposed development, trip-generation rates published by the Institute of Transportation Engineers (ITE) *Trip Generation Manual*² were researched. Multiple Land Use Codes (LUCs) were considered for the site. To determine the trip generation, LUC 150 (Warehousing), LUC 154 (High-Cube Transload and Short-Term Storage Warehouse), and LUC 155 (High-Cube Fulfillment Center Warehouse) were evaluated. Land Use Code (LUC) 150 (Warehousing) was used for the site to estimate the most conservative trip generation. A worksheet comparison of the LUC trip generations are attached to this letter.

² *Trip Generation, 10th Edition*. Institute of Transportation Engineers; Washington, DC; 2017.

TABLE 3
Trip-Generation Summary

Peak Hour/Direction	Employee Trips ^a	Truck Trips ^a	Total Trips ^b
Weekday Daily:			
Enter	213	104	317
Exit	<u>213</u>	<u>104</u>	<u>317</u>
Total	426	208	634
Weekday AM Peak Hour:			
Enter	50	4	54
Exit	<u>13</u>	<u>3</u>	<u>16</u>
Total	63	7	70
Weekday PM Peak Hour:			
Enter	13	6	19
Exit	<u>48</u>	<u>5</u>	<u>53</u>
Total	61	11	72

^a Based on ITE LUC 150 (Warehousing) for 372,000 SF.

^b Employee Trips plus Truck Trips

As shown in Table 3, the proposed development is expected to generate 634 daily vehicle trips (317 entering and 317 exiting) during an average weekday, 70 vehicles trips (54 entering and 16 exiting) during the weekday AM peak hour, and 72 vehicles trips (19 entering and 53 exiting) during the weekday PM peak hour.

Trip Distribution

Having estimated project-generated vehicle trips, the next step is to determine the distribution of project traffic and assign these trips to the local roadway network. The distribution of the employee site-generated trips was based on a Journey-to-Work gravity model using 2011-2015 U.S. Census data for the residences of the workforce in Lunenburg. The communities having residents working in Lunenburg include Lunenburg, Fitchburg, Leominster, Townsend, Ashby, and other surrounding communities as listed in the data attached to this letter. Accordingly, 40 percent of the employee site traffic is expected to/from the west along Leominster Shirley Road, 10 percent is expected to/from the east along Leominster Shirley Road, 20 percent is expected to/from the north along Reservoir Road, 15 percent is expected to/from the west along Route 2, and 15 percent is expected to/from the east along Route 2. All site generated heavy vehicle traffic was assumed to come to and from Route 2. The Journey-to-Work data are attached to this letter.

Traffic Increases

Traffic volume increases on Leominster Shirley Road are anticipated to be between 70 to 72 vehicle trips during the peak hours. These increases represent, on average, one additional vehicle trip approximately every minute during the peak hours. Based on Automatic Traffic Recorder (ATR) counts conducted in May 2021, Leominster Shirley Road west of the site carries 377 vehicles per hour (vph) during the weekday AM peak hour (352 vph*7 percent COVID adjustment), 542 vph during the weekday PM peak hour (507*7 percent), and 5,154 vehicles per day (vpd) on a weekday (4,817*7 percent). Based on the project's trip distribution, traffic increases on Leominster Shirley Road west of the site (90 percent of the employee site-generated trips and

100 percent of the truck trips) are expected to be approximately 17 percent during the weekday AM peak hour (64 vph/377 vph) and approximately 12 percent during the weekday PM peak hour (66 vph/542 vph). On a weekday basis, traffic volumes are expected to increase by approximately 11 percent (591 vpd/5,154 vpd). The traffic count data are attached to this letter.

Recommended Improvements

Due to the existing speeds on Leominster Shirley Road, and the fact that tractor-trailer trucks will be entering the site, improvements are recommended to separate the traffic entering the site from the traffic that will continue along Leominster Shirley Road. This would include the construction of an eastbound left-turn lane at the eastern enter-only driveway. It is expected that with the turn lane in place, delays and queues at the site driveway will be slightly reduced. Although the proposed turn lane is expected to provide slight improvements to operations, the main purpose of the turn lane is to allow the traffic to continue along Leominster Shirley Road without extending queues to the west. A schematic design plan of the proposed left-turn lane is attached to this letter.

Impact Report – Traffic, Transportation and Circulation

Traffic volumes were collected in May 2021 at the following intersections in Lunenburg:

- Leominster Shirley Road at Reservoir Road
- Leominster Shirley Road at Fort Pond Road and Old Shirley Road

Due to the COVID-19 pandemic, the traffic volumes were upwardly adjusted by 7 percent. May traffic volumes were found to be 2.8 percent above average-month conditions so the traffic data was not seasonally adjusted in order to reflect an above average-month analysis condition. Base traffic volumes were established based on these adjustments and the existing traffic-volume network is graphically depicted in Figure 1 - 2021 Base Year Peak Hour Traffic Volumes attached to this letter.

To estimate the impact of site-generated traffic within the study area, existing traffic volumes were projected to the year 2028, representing a seven-year design horizon in accordance with state guidelines. The future traffic volume conditions were developed by applying an annual growth rate of 1 percent compounded per year. In addition, the Town was contacted to determine if there were any background developments that should be included in the study area traffic volumes. Although a few developments were identified, the only project expected to add substantial traffic to the study area is the Capital Commerce Center proposed on McGovern Boulevard in Lancaster, Massachusetts. Accordingly, the 2028 No-Build peak-hour traffic volumes were developed by applying a 1.0 percent compounded annual traffic growth rate (7.2 percent over seven years) to the 2021 Base Year traffic volumes and adding the trips associated with the Capital Commerce Center. The 2028 No-Build peak hour traffic volumes are shown graphically on Figure 2 – No-Build Peak Hour Traffic Volumes attached to this letter.

To estimate the volume of traffic to be generated by the proposed development, trip-generation rates published by the ITE Trip Generation Manual were researched as noted above in the *Trip Generation* section of this letter. In addition, the distribution of the employee site-generated trips was based on a Journey-to-Work gravity model using 2011-2015 U.S. Census data for the residences of the workforce in Lunenburg as noted in the *Trip Distribution* section of this letter. All site generated heavy vehicle traffic was assumed to come to and from Route 2. The Site-Generated Trips for the weekday AM and weekday PM peak hour traffic volumes are shown graphically on Figures 3 through 4, respectively, and are attached to this letter.

The site-generated traffic volumes were then combined with the 2028 No-Build traffic volumes to develop the 2028 Build peak-hour traffic-volume networks. The 2028 Build weekday AM and weekday PM peak hour traffic volumes are illustrated on Figures 5 and 6, respectively, and are attached to this letter.

Capacity and queue analyses were conducted at all study area locations under 2021 Existing, 2028 No-Build, and 2028 Build traffic-volume conditions. The impact of site-generated traffic can be measured by comparing 2028 No-Build conditions to 2028 Build conditions. The results of the capacity and queue analyses are summarized in the Intersection Capacity Analysis Summary table attached to this letter. Capacity and queue analyses were conducted utilizing *Sidra* software.

The project site is currently vacant. Under future traffic volume conditions, with the project in place, all movements along Leominster Shirley Road are expected to operate at optimal levels (Level-Of-Service [LOS] A). In addition the Reservoir Road approach, Old Shirley Road approach, and Fort Pond Road right-turn movement are also expected to operate at acceptable levels (LOS C or better). The Fort Pond Road left-turn movement onto Leominster Shirley Road is expected to operate with long delays during the weekday AM peak hour (LOS D) and long delays and capacity constraints with or without the project in place during the weekday PM peak hour. The proposed project, however, does not add any additional trips to this left-turn movement. With the project in place, the site driveways are expected to operate at LOS B or better with queues of one vehicle or less on the exit-only driveway and left-turn movement into the site.

Summary

- The site is currently vacant. As currently envisioned, the development would include constructing a ±372,000 square foot (SF) building for use as a warehouse and distribution facility. Access to the site is proposed via one access-only and one egress-only driveway on Leominster Shirley Road.
- Based on the collision data, the roadway segment adjacent to the proposed site, between Reservoir Road and the Shirley town line, experienced two collisions over a five-year study period, averaging 0.4 collisions per year. Based on the average number of collisions per year, a safety risk does not appear to exist in this section of roadway.
- Available sight distances at the proposed site driveway on Leominster Shirley Road exceed the minimum and desirable SSD and ISD requirements for safe operation. In addition, it is recommended that any proposed plantings, vegetation, landscaping, and signing along the site frontage be kept low to the ground (no more than 3.0 feet above street level) or set back sufficiently from Leominster Shirley Road so as not to inhibit the available sight lines.
- The proposed development is expected to generate 634 daily vehicle trips (317 entering and 317 exiting) during an average weekday, 70 vehicles trips (54 entering and 16 exiting) during the weekday AM peak hour, and 72 vehicles trips (19 entering and 53 exiting) during the weekday PM peak hour.
- Traffic volume increases on Leominster Shirley Road are anticipated to be between 70 to 72 vehicle trips during the peak hours. These increases represent, on average, one additional vehicle trip approximately every minute during the peak hours. Based on the traffic counts collected and Census data, traffic increases on Leominster Shirley Road west of the site are expected to be approximately 17 percent during the weekday AM peak hour, 12 percent during the weekday PM peak hour, and approximately 11 percent on a daily weekday basis.
- Due to the existing speeds on Leominster Shirley Road, and the fact that tractor-trailer trucks will be entering the site, improvements are recommended to separate the traffic entering the site from traffic that will continue along Leominster Shirley Road. These improvements include the construction of an

eastbound left-turn lane at the eastern enter-only driveway. It is expected that with the turn lane in place, delays and queues at the site driveway will be slightly reduced. Although the proposed turn lane is expected to provide slight improvements to operations, the main purpose of the turn lane is to allow the traffic to continue along Leominster Shirley Road without extending queues to the west.

- Traffic volume volumes were collected along Leominster Shirley Road and at its intersections with Reservoir Road and Fort Pond Road/Old Shirley Road. Traffic volumes networks were created for the weekday AM and weekday PM peak hours and capacity and queue analyses were conducted at each study area intersection and at the site driveways.
 - Under future traffic volume conditions, with the project in place, all movements along Leominster Shirley Road are expected to operate at optimal levels (Level-Of-Service [LOS] A). In addition the Reservoir Road approach, Old Shirley Road approach, and Fort Pond Road right-turn movement are also expected to operate at acceptable levels (LOS C or better). The Fort Pond Road left-turn movement onto Leominster Shirley Road is expected to operate with long delays during the weekday AM peak hour (LOS D) and long delays and capacity constraints with or without the project in place during the weekday PM peak hour. The proposed project, however, does not add any additional trips to this left-turn movement. With the project in place, the site driveways are expected to operate at LOS B or better with queues of one vehicle or less on the exit-only driveway and left-turn movement into the site.

Should you have any questions, or require additional information, please contact me at (978) 570-2968.

Sincerely,

GREENMAN-PEDERSEN, INC.



Heather L. Monticup, P.E.
Assistant Vice President / Director of Traffic Engineering – Land Development

Enclosures:

Crash Rate Worksheet
Sight Distance Calculations
Trip Generation Data
Journey-To-Work Data
Traffic-Count Data
Left-Turn Lane Concept
Traffic Volume Networks
Intersection Capacity Analysis Summary



SEGMENT CRASH RATE WORKSHEET

CITY/TOWN : Lunenburg COUNT DATE : 2016-2020

DISTRICT : 3

~ SEGMENT DATA ~

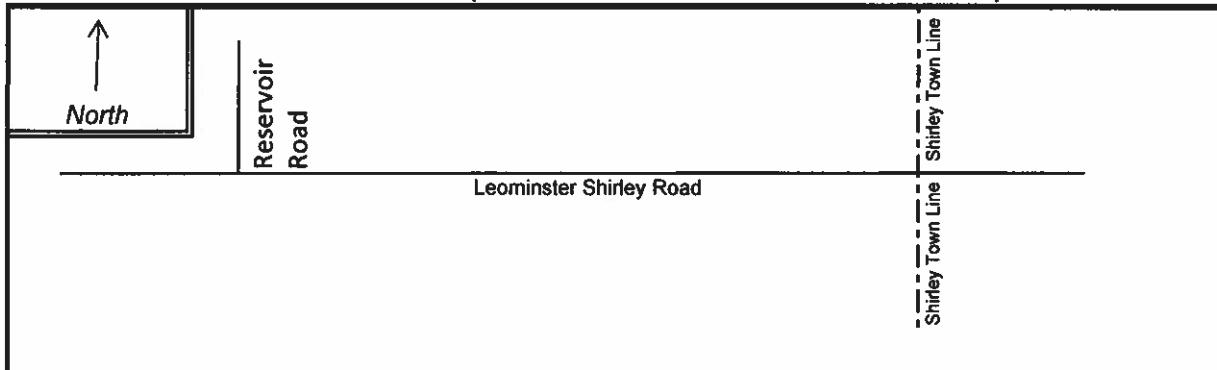
ROADWAY NAME: Leominster Shirley Road

START POINT: Reservoir Road

END POINT: Shirley Town Line

FUNCTIONAL CLASSIFICATION OF ROADWAY: Urban Minor Arterial

ROADWAY DIAGRAM (LABEL ROADWAY AND CROSS STREETS)



AVERAGE DAILY TRAFFIC

SEGMENT LENGTH IN MILES (L): 0.60

AVERAGE DAILY TRAFFIC VOLUME (V): 4,534

TOTAL # OF CRASHES: 2 # OF YEARS: 5 AVERAGE # OF CRASHES PER YEAR (A): 0.4

CRASH RATE
CALCULATION :

0.40

RATE = $\frac{(A * 1,000,000)}{(L * V * 365)}$

Comments : _____

Project Title: Lunenburg, MA - Warehouse-Distribution Facility

AASHTO Recommended Sight Distance Summary (Passenger Vehicles)

LOCATION: Leominster Shirley Road at Site Driveway

Side Street Direction: SB
Number of Lanes on Mainline = 2
Median Width (Feet) = 0

STOPPING SIGHT DISTANCE

Mainline Direction:	WB
85th Percentile Speed (V) =	45 MPH
Grade (G) =	0.0%
Apply Grade Adjustment	No
Brake Reaction Time (T) =	2.5 seconds
Deceleration Rate (A) =	11.2 ft/s ²
SSD = $1.47 V * T + 1.075 V^2/A =$	360 FT
SSD =	360 FT

INTERSECTION SIGHT DISTANCE

RIGHT TURN FROM STOP:	East of Driveway
Posted Speed (V) =	40 MPH
Minor Street Approach Grade (G) =	0.0%
Apply Grade Adjustment	No
Time Gap (t_g) =	6.5 seconds
ISD (Right Turn from Stop) = $1.47 * t_g * V =$	383 FT
ISD (Right Turn from Stop) =	385 FT

Mainline Direction:

EB

85th Percentile Speed (V) = 47 MPH

Grade (G) = -2.0%

Apply Grade Adjustment

Yes

Brake Reaction Time (T) = 2.5 seconds

Deceleration Rate (A) = 11.2 ft/s²

SSD = $1.47 V * T + 1.075 V^2/A =$

SSD = 400 FT

LEFT TURN FROM STOP:

West of Driveway

Posted Speed (V) = 40 MPH

Minor Street Approach Grade (G) =

Apply Grade Adjustment

No

Time Gap (t_g) = 7.5 seconds

ISD (Left Turn from Stop) = $1.47 * t_g * V =$

441 FT

[ISD (Left Turn from Stop) =

445 FT

AASHTO Recommended Sight Distance Summary (Combination Trucks)

LOCATION:

Leominster Shirley Road at Site Driveway

Side Street Direction: SB
Number of Lanes on Mainline = 2
Median Width (Feet) = 0

STOPPING SIGHT DISTANCE

Mainline Direction: WB
85th Percentile Speed (V) = 45 MPH
Grade (G) = 0.0%
Apply Grade Adjustment No
Brake Reaction Time (T) = 2.5 seconds
Deceleration Rate (A) = 11.2 ft/s²
SSD = $1.47 V * T + 1.075 V^2 / A =$
SSD = 360 FT

INTERSECTION SIGHT DISTANCE

RIGHT TURN FROM STOP:
Posted Speed (V) = 40 MPH
Minor Street Approach Grade (G) = 0.0%
Apply Grade Adjustment No
Time Gap (t_g) = 10.5 seconds
ISD (Right Turn from Stop) = $1.47 * t_g * V =$
ISD (Right Turn from Stop) = 620 FT

LEFT TURN FROM STOP:

Mainline Direction: EB
85th Percentile Speed (V) = 47 MPH
Grade (G) = -2.0%
Apply Grade Adjustment Yes
Brake Reaction Time (T) = 2.5 seconds
Deceleration Rate (A) = 11.2 ft/s²
SSD = $1.47 V * T + 1.075 V^2 / A =$
SSD = 400 FT

West of Driveway

LEFT TURN FROM STOP:
Posted Speed (V) = 40 MPH
Minor Street Approach Grade (G) = 0.0%
Apply Grade Adjustment No
Time Gap (t_g) = 11.5 seconds
ISD (Left Turn from Stop) = $1.47 * t_g * V =$
ISD (Left Turn from Stop) = 680 FT

Trip Generation Estimates

Building Size = 372

		LUC 150		LUC 154		LUC 155	
		Warehousing	HCT & STS Warehouse	Warehouse	HCFC Warehouse	Warehouse	HCFC Warehouse
Weekday Daily	Entering	317	260	337	337	337	337
	Exiting	317	260	337	337	337	337
	Total	634	520	674	674	674	674
Weekday AM Peak Hour	Entering	54	23	45	45	45	45
	Exiting	16	7	11	11	11	11
	Total	70	30	56	56	56	56
Weekday PM Peak Hour	Entering	19	10	23	23	23	23
	Exiting	53	27	37	37	37	37
	Total	72	37	60	60	60	60

Institute of Transportation Engineers (ITE)

Land Use Code (LUC) 150 - Warehousing

General Urban/Suburban

Average Vehicle Trips Ends vs: 1000 Sq. Feet Gross Floor Area

Independent Variable (X): 372.000

AVERAGE WEEKDAY DAILY

$$T = 1.58 * (X) + 45.54$$

$$T = 1.58 * 372.000 + 45.54$$

$$T = 633.30$$

$$T = 634 \text{ vehicle trips}$$

with 50% (317 vpd) entering and 50% (317 vpd) exiting.

WEEKDAY MORNING PEAK HOUR OF ADJACENT STREET TRAFFIC

$$T = 0.12 * (X) + 25.32$$

$$T = 0.12 * 372.000 + 25.32$$

$$T = 69.96$$

$$T = 70 \text{ vehicle trips}$$

with 77% (54 vph) entering and 23% (16 vph) exiting.

WEEKDAY EVENING PEAK HOUR OF ADJACENT STREET TRAFFIC

$$T = 0.12 * (X) + 27.82$$

$$T = 0.12 * 372.000 + 27.82$$

$$T = 72.46$$

$$T = 72 \text{ vehicle trips}$$

with 27% (19 vph) entering and 73% (53 vph) exiting.

SATURDAY DAILY

$$T = 0.15 * (X)$$

$$T = 0.150 * 372.000$$

$$T = 55.80$$

$$T = 56 \text{ vehicle trips}$$

with 50% (28 vpd) entering and 50% (28 vpd) exiting.

SATURDAY PEAK HOUR OF GENERATOR

$$T = 0.05 * (X)$$

$$T = 0.05 * 372.000$$

$$T = 18.60$$

$$T = 19 \text{ vehicle trips}$$

with 64% (12 vph) entering and 36% (7 vph) exiting.

Warehousing (150)

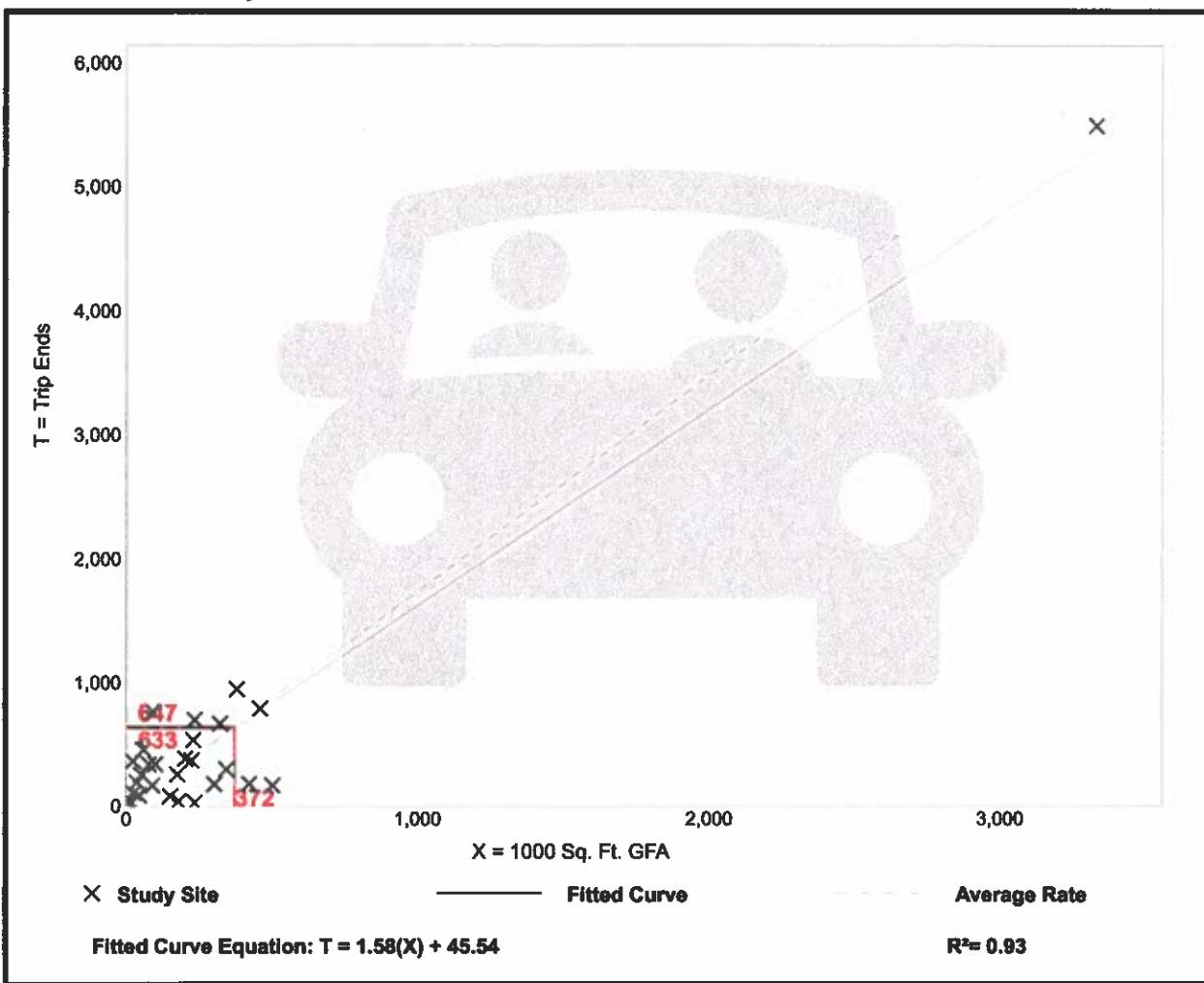
Vehicle Trip Ends vs: 1000 Sq. Ft. GFA
On a: Weekday

Setting/Location: General Urban/Suburban
Number of Studies: 29
Avg. 1000 Sq. Ft. GFA: 285
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
1.74	0.15 - 16.93	1.55

Data Plot and Equation



Warehousing (150)

Truck Trip Ends vs: 1000 Sq. Ft. GFA
On a: Weekday

Setting/Location: General Urban/Suburban

Number of Studies: 12

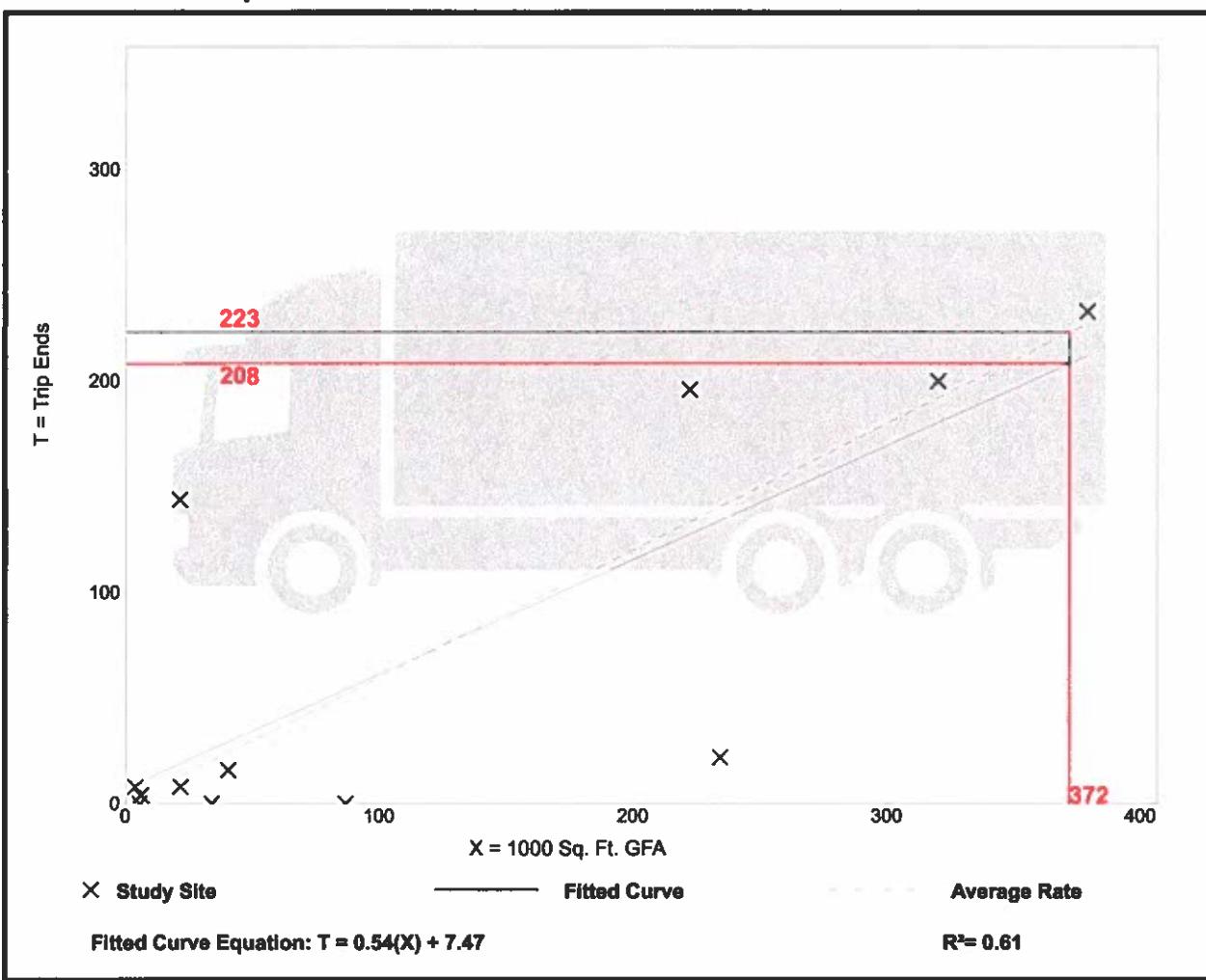
Avg. 1000 Sq. Ft. GFA: 115

Directional Distribution: 50% entering, 50% exiting

Truck Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
0.60	0.00 - 6.66	0.86

Data Plot and Equation



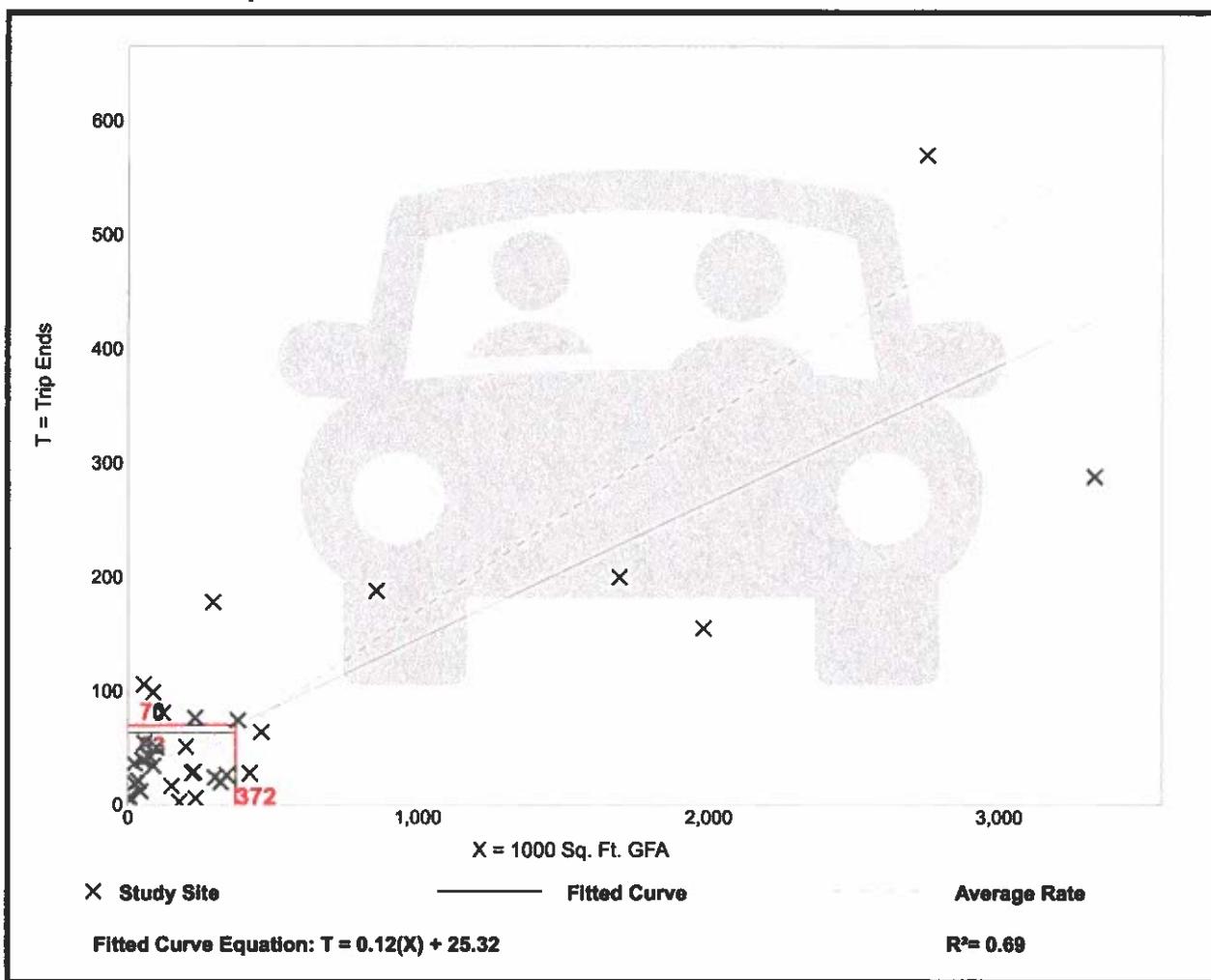
Warehousing (150)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 7 and 9 a.m.
Setting/Location: General Urban/Suburban
Number of Studies: 34
Avg. 1000 Sq. Ft. GFA: 451
Directional Distribution: 77% entering, 23% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
0.17	0.02 - 1.93	0.20

Data Plot and Equation



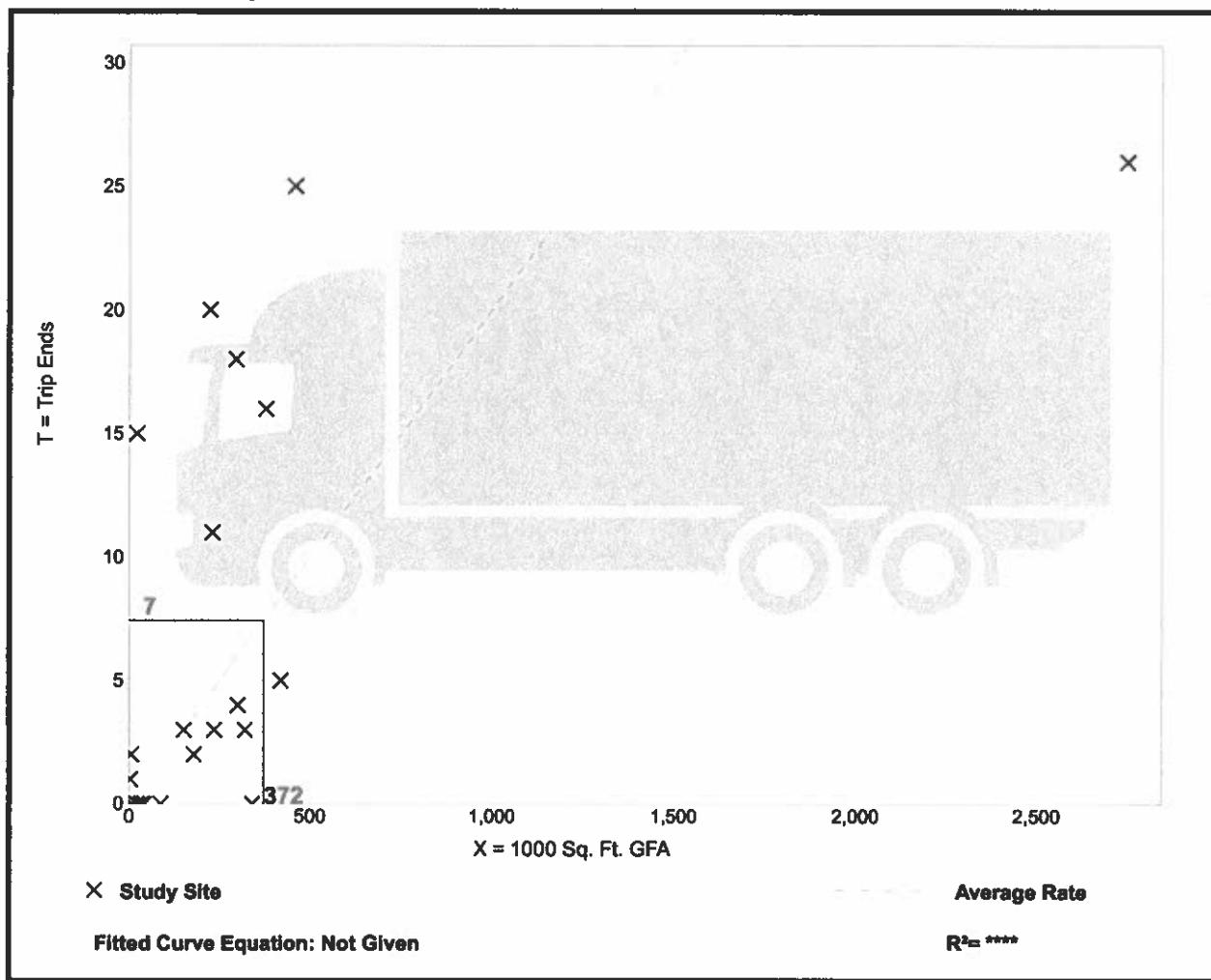
Warehousing (150)

Truck Trip Ends vs: 1000 Sq. Ft. GFA
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 7 and 9 a.m.
Setting/Location: General Urban/Suburban
Number of Studies: 21
Avg. 1000 Sq. Ft. GFA: 309
Directional Distribution: 52% entering, 48% exiting

Truck Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
0.02	0.00 - 0.69	0.05

Data Plot and Equation



Warehousing (150)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

Number of Studies: 47

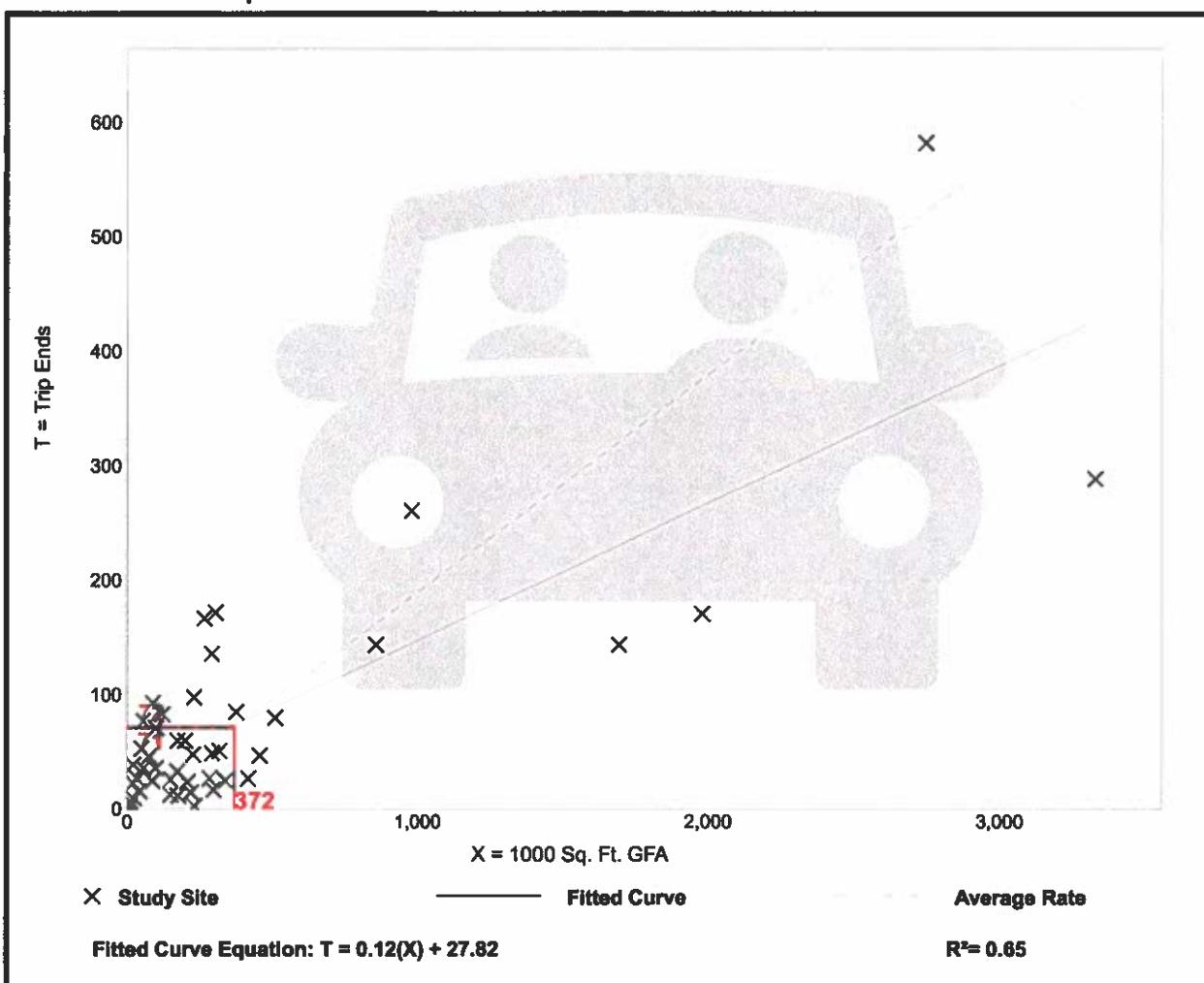
Avg. 1000 Sq. Ft. GFA: 400

Directional Distribution: 27% entering, 73% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
0.19	0.01 - 1.80	0.18

Data Plot and Equation



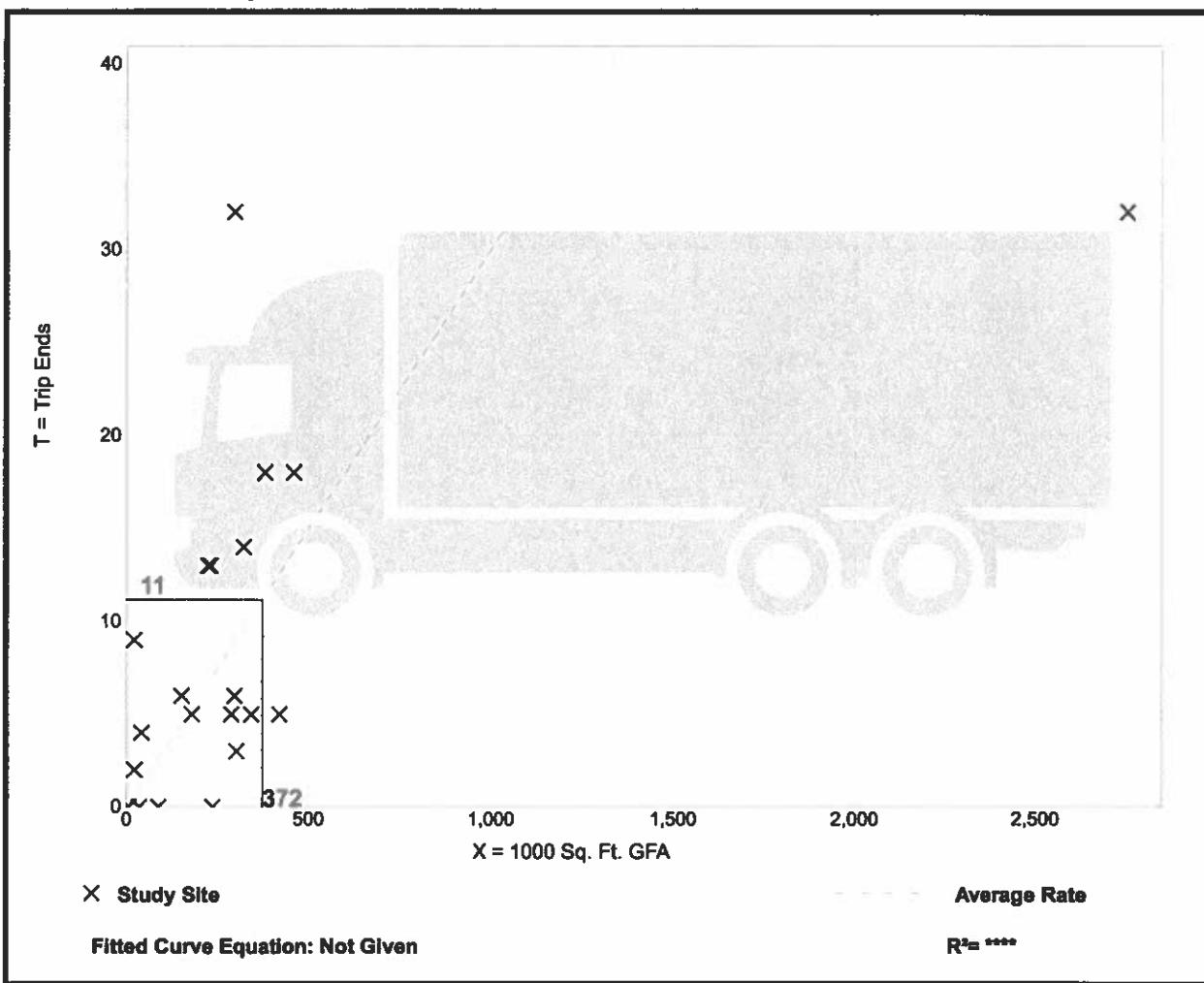
Warehousing (150)

Truck Trip Ends vs: 1000 Sq. Ft. GFA
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.
Setting/Location: General Urban/Suburban
Number of Studies: 23
Avg. 1000 Sq. Ft. GFA: 308
Directional Distribution: 52% entering, 48% exiting

Truck Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
0.03	0.00 - 0.42	0.03

Data Plot and Equation



Institute of Transportation Engineers (ITE)

**Land Use Code (LUC) 154 - High-Cube Transload and Short-Term Storage Warehouse
General Urban/Suburban**

Average Vehicle Trips Ends vs: 1000 Sq. Feet Gross Floor Area
Independent Variable (X): 372.000

AVERAGE WEEKDAY DAILY

T = 1.40 * (X)
T = 1.40 * 372.000
T = 520.80
T = 520 vehicle trips
with 50% (260 vpd) entering and 50% (260 vpd) exiting.

WEEKDAY MORNING PEAK HOUR OF ADJACENT STREET TRAFFIC

T = 0.08 * (X)
T = 0.08 * 372.000
T = 29.76
T = 30 vehicle trips
with 77% (23 vph) entering and 23% (7 vph) exiting.

WEEKDAY EVENING PEAK HOUR OF ADJACENT STREET TRAFFIC

T = 0.10 * (X)
T = 0.10 * 372.000
T = 37.20
T = 37 vehicle trips
with 28% (10 vph) entering and 23% (27 vph) exiting.

SATURDAY DAILY

T = 0.94 * (X)
T = 0.94 * 372.000
T = 349.68
T = 350 vehicle trips
with 50% (175 vpd) entering and 50% (175 vpd) exiting.

SATURDAY PEAK HOUR OF GENERATOR

T = 0.12 * (X)
T = 0.12 * 372.000
T = 44.64
T = 45 vehicle trips
*with 50% (23 vph) entering and 50% (22 vph) exiting.
**assumed distribution based on Saturday Daily*

High-Cube Transload and Short-Term Storage Warehouse (154)

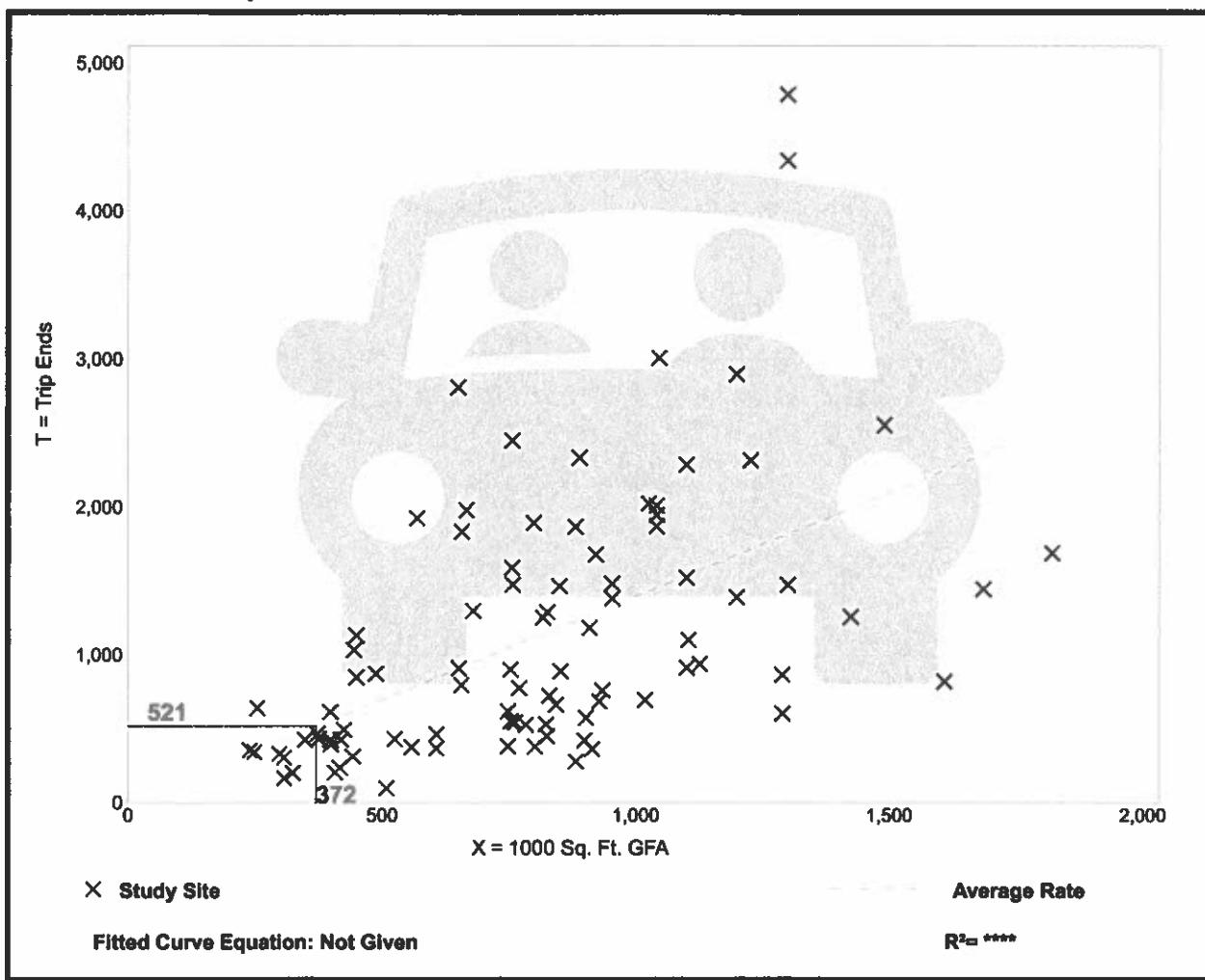
Vehicle Trip Ends vs: 1000 Sq. Ft. GFA
On a: Weekday

Setting/Location: General Urban/Suburban
Number of Studies: 91
Avg. 1000 Sq. Ft. GFA: 798
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
1.40	0.20 - 4.32	0.86

Data Plot and Equation



High-Cube Transload and Short-Term Storage Warehouse (154)

Truck Trip Ends vs: 1000 Sq. Ft. GFA
On a: Weekday

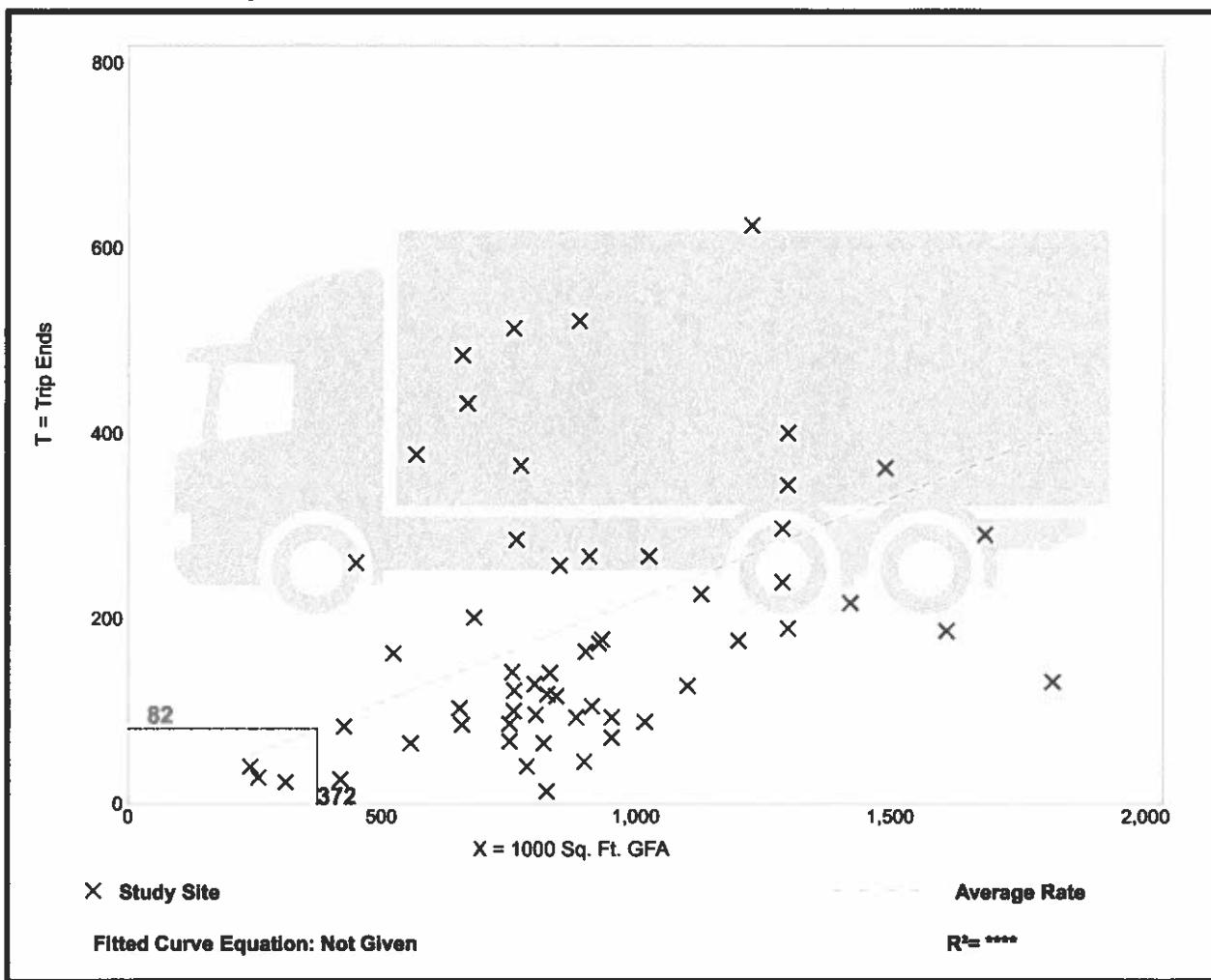
Setting/Location: General Urban/Suburban

Number of Studies: 57
Avg. 1000 Sq. Ft. GFA: 892
Directional Distribution: 50% entering, 50% exiting

Truck Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
0.22	0.02 - 0.74	0.16

Data Plot and Equation



High-Cube Transload and Short-Term Storage Warehouse (154)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

**Peak Hour of Adjacent Street Traffic,
One Hour Between 7 and 9 a.m.**

Setting/Location: General Urban/Suburban

Number of Studies: 102

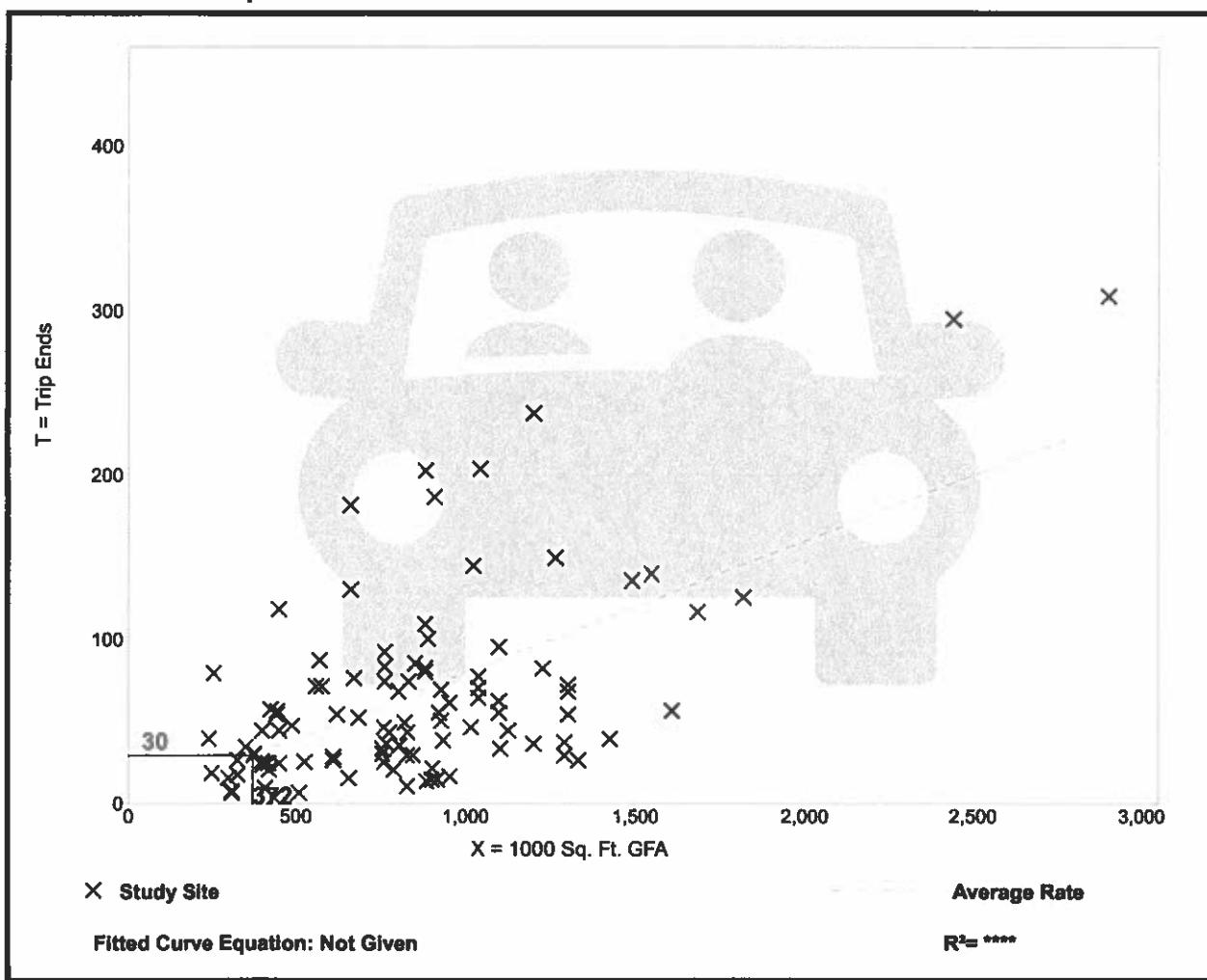
Avg. 1000 Sq. Ft. GFA: 846

Directional Distribution: 77% entering, 23% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
0.08	0.01 - 0.31	0.05

Data Plot and Equation



High-Cube Transload and Short-Term Storage Warehouse (154)

Truck Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic,
One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban

Number of Studies: 90

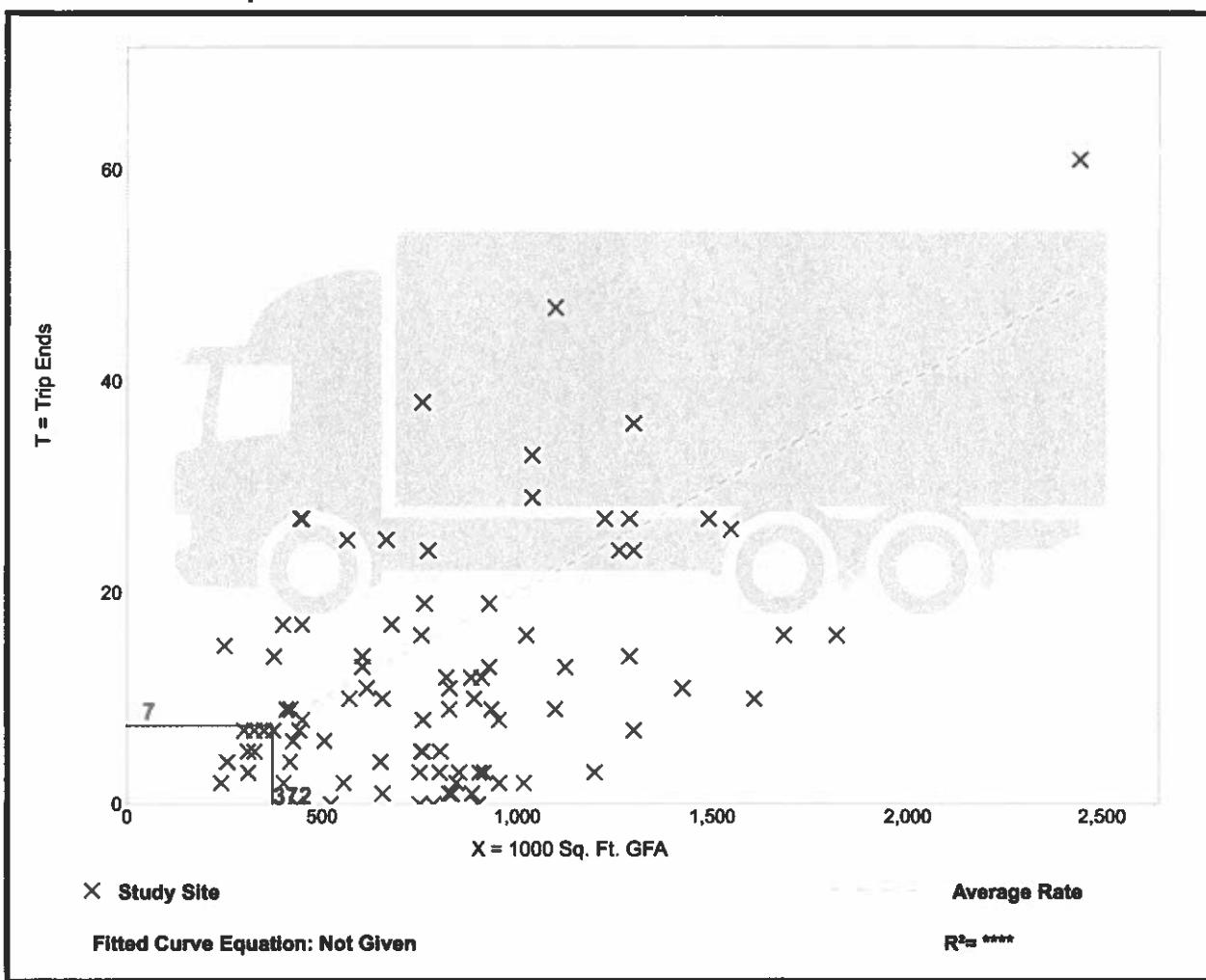
Avg. 1000 Sq. Ft. GFA: 812

Directional Distribution: 49% entering, 51% exiting

Truck Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
0.02	0.00 - 0.06	0.01

Data Plot and Equation



High-Cube Transload and Short-Term Storage Warehouse (154)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

**Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.**

Setting/Location: General Urban/Suburban

Number of Studies: 103

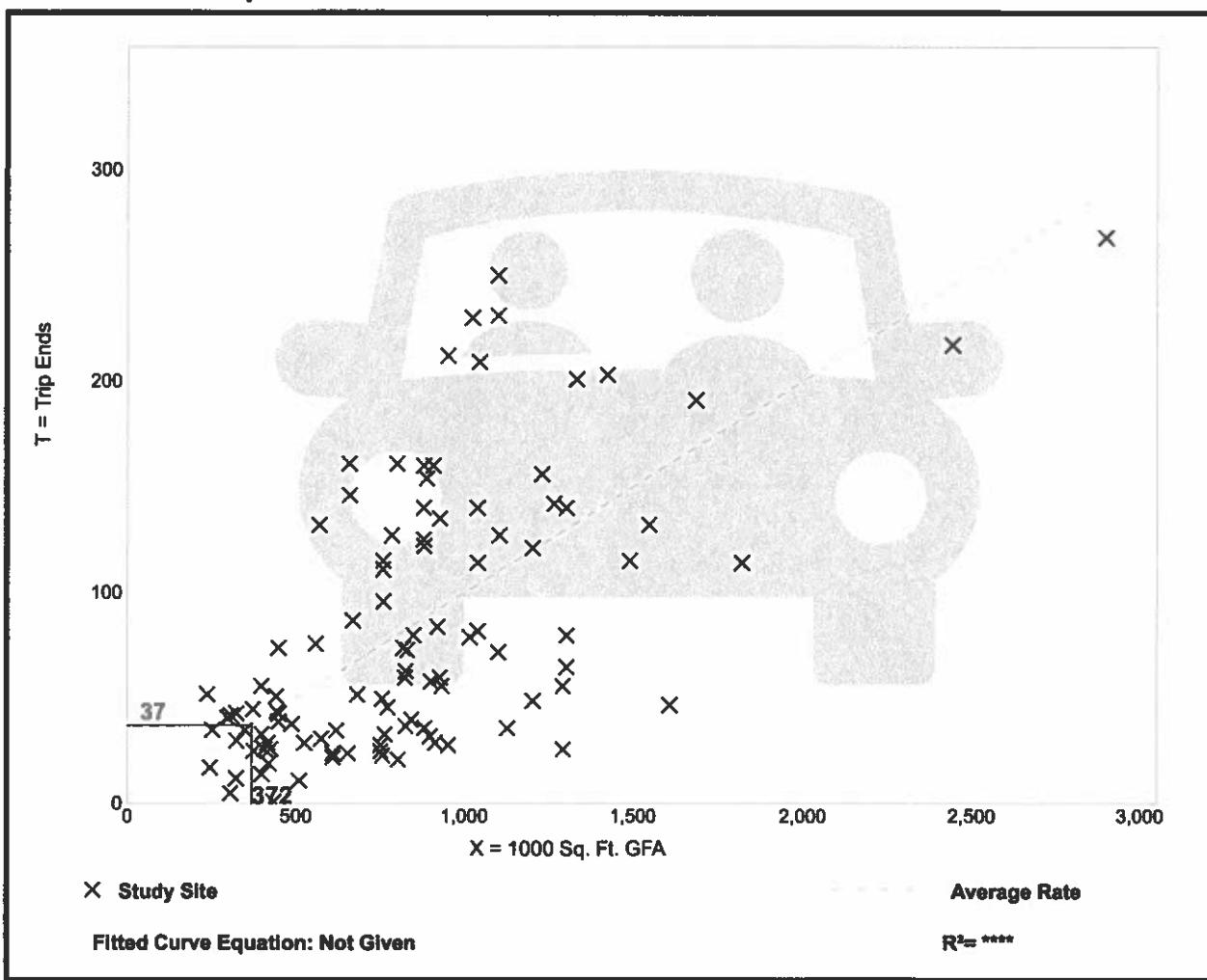
Avg. 1000 Sq. Ft. GFA: 840

Directional Distribution: 28% entering, 72% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
0.10	0.00 - 0.25	0.06

Data Plot and Equation



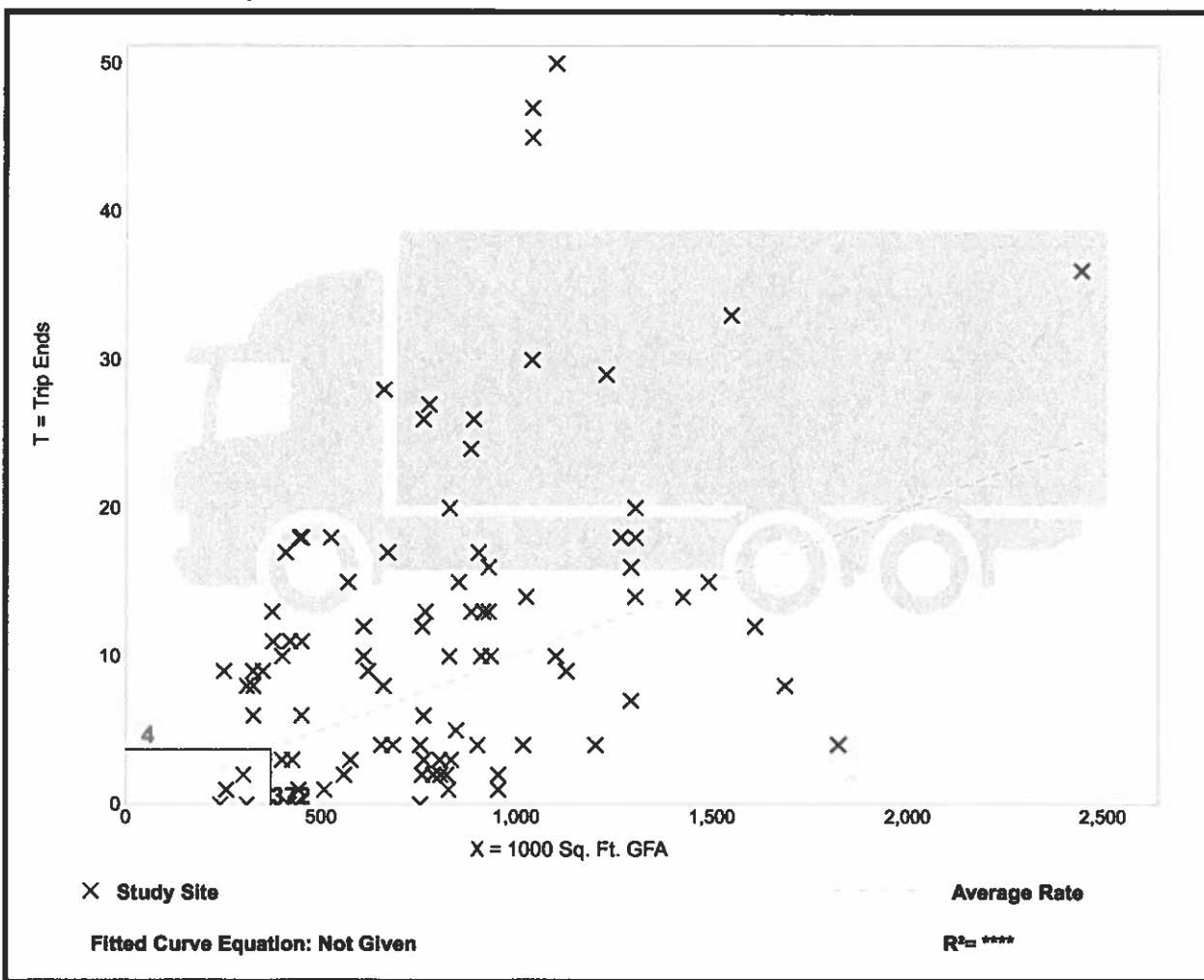
High-Cube Transload and Short-Term Storage Warehouse (154)

Truck Trip Ends vs: 1000 Sq. Ft. GFA
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.
Setting/Location: General Urban/Suburban
Number of Studies: 91
Avg. 1000 Sq. Ft. GFA: 807
Directional Distribution: 47% entering, 53% exiting

Truck Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
0.01	0.00 - 0.05	0.01

Data Plot and Equation



Institute of Transportation Engineers (ITE)

Land Use Code (LUC) 155 - High-Cube Fulfillment Center Warehouse (Non-Sort)

General Urban/Suburban

Average Vehicle Trips Ends vs: 1000 Sq. Feet Gross Floor Area
Independent Variable (X): 372.000

AVERAGE WEEKDAY DAILY

T = 1.81 * (X)
T = 1.81 * 372.000
T = 673.32
T = 674 vehicle trips
with 50% (337 vpd) entering and 50% (337 vpd) exiting.

WEEKDAY MORNING PEAK HOUR OF ADJACENT STREET TRAFFIC

T = 0.15 * (X)
T = 0.15 * 372.000
T = 55.80
T = 56 vehicle trips
with 81% (45 vph) entering and 19% (11 vph) exiting.

WEEKDAY EVENING PEAK HOUR OF ADJACENT STREET TRAFFIC

T = 0.16 * (X)
T = 0.16 * 372.000
T = 59.52
T = 60 vehicle trips
with 39% (23 vph) entering and 61% (37 vph) exiting.

SATURDAY DAILY

$$\frac{\text{ITE LUC 154 Saturday Daily Trip Rate}}{\text{ITE LUC 154 Weekday Daily Trip Rate}} = \frac{\text{ITE LUC 155 Saturday Daily Trip Rate}}{\text{ITE LUC 155 Weekday Daily Trip Rate}}$$
$$\frac{0.94}{1.40} = \frac{(Y)}{1.81} \quad Y = 1.22$$

T = Y * 372.0
T = 453.84
T = 454 vehicle trips
with 50% (227 vpd) entering and 50% (227 vpd) exiting.
(same distribution split as ITE LUC 154 during the Saturday Daily traffic)

SATURDAY PEAK HOUR OF GENERATOR

T = 0.20 * (X)
T = 0.20 * 372.000
T = 74.40
T = 74 vehicle trips
*with 50% (37 vph) entering and 50% (37 vph) exiting.
**assumed distribution based on Saturday Daily*

High-Cube Fulfillment Center Warehouse - Non-Sort (155)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA
On a: Weekday

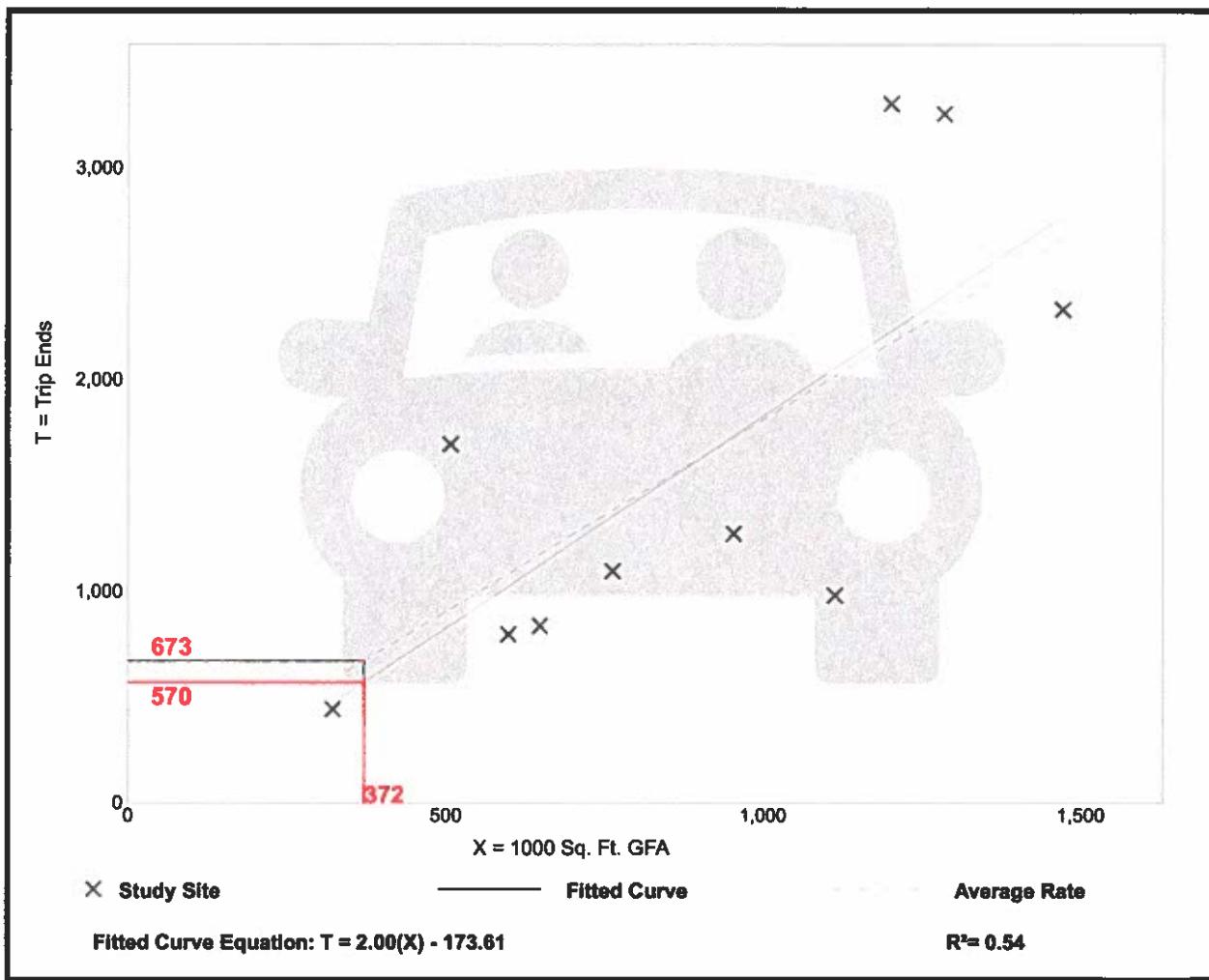
Setting/Location: General Urban/Suburban

Number of Studies: 10
Avg. 1000 Sq. Ft. GFA: 886
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
1.81	0.88 - 3.34	0.76

Data Plot and Equation



High-Cube Fulfillment Center Warehouse - Non-Sort (155)

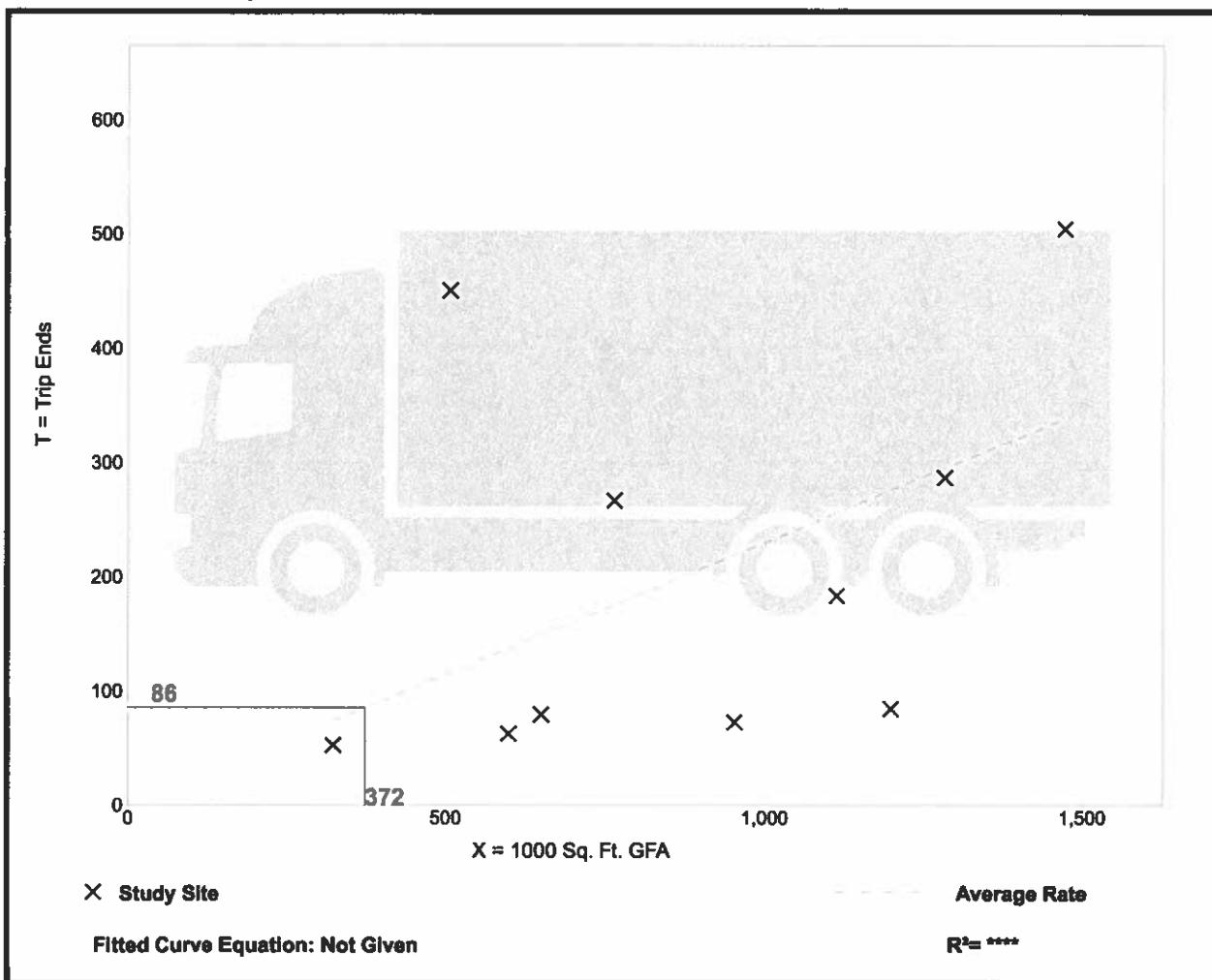
Truck Trip Ends vs: 1000 Sq. Ft. GFA
On a: Weekday

Setting/Location: General Urban/Suburban
Number of Studies: 10
Avg. 1000 Sq. Ft. GFA: 886
Directional Distribution: 50% entering, 50% exiting

Truck Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
0.23	0.07 - 0.89	0.20

Data Plot and Equation



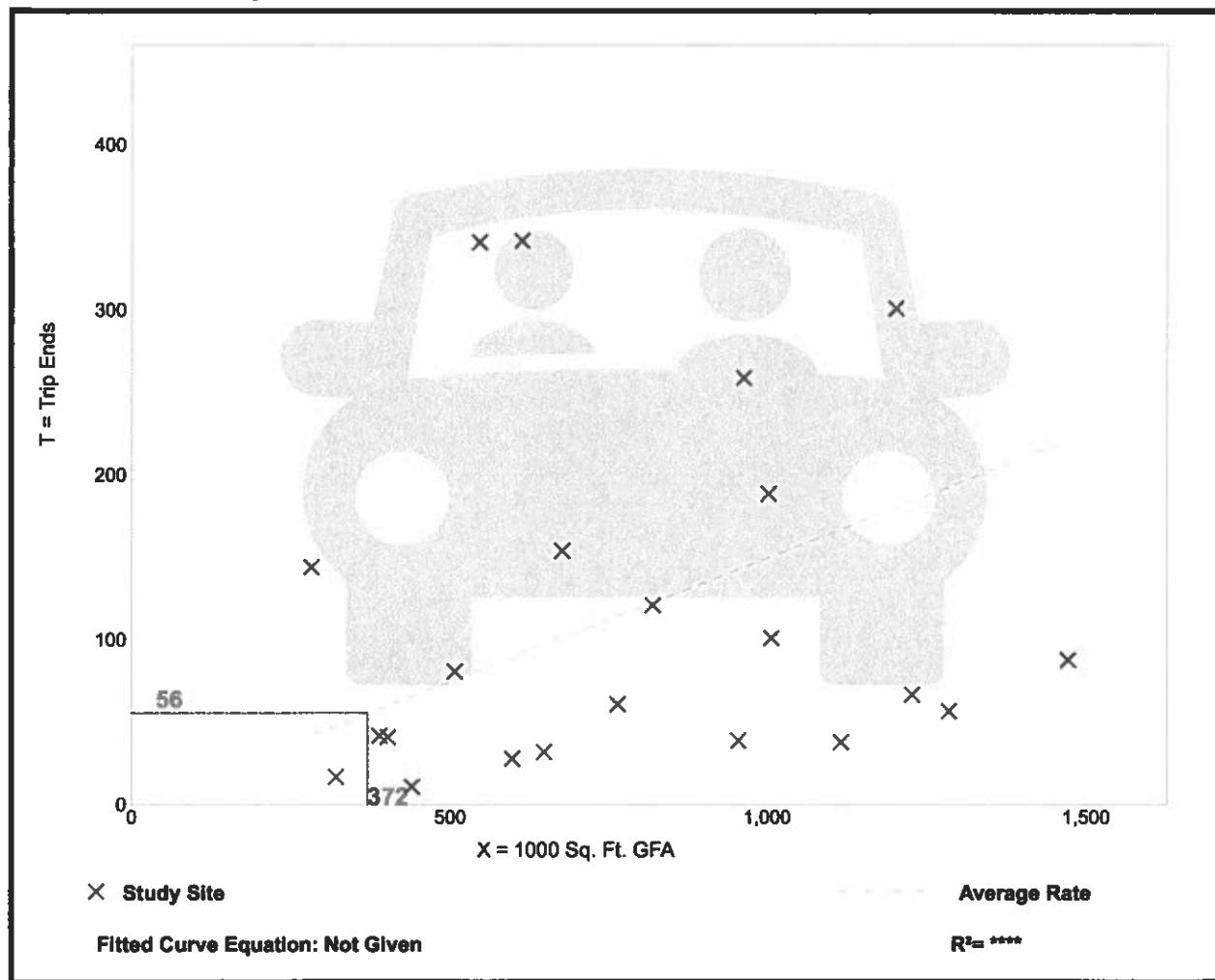
High-Cube Fulfillment Center Warehouse - Non-Sort (155)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 7 and 9 a.m.
Setting/Location: General Urban/Suburban
Number of Studies: 22
Avg. 1000 Sq. Ft. GFA: 783
Directional Distribution: 81% entering, 19% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
0.15	0.03 - 0.62	0.15

Data Plot and Equation



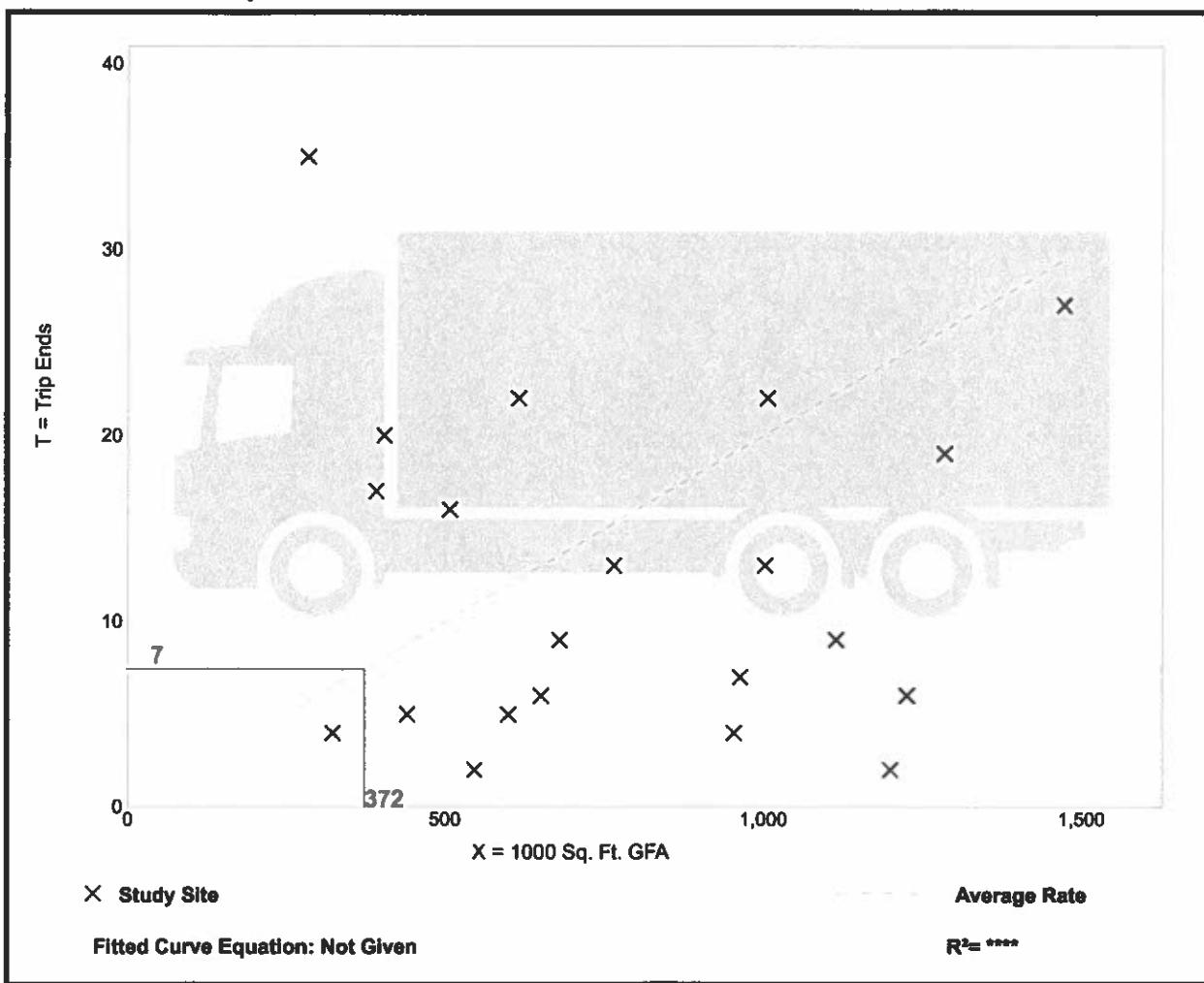
High-Cube Fulfillment Center Warehouse - Non-Sort (155)

Truck Trip Ends vs: 1000 Sq. Ft. GFA
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 7 and 9 a.m.
Setting/Location: General Urban/Suburban
Number of Studies: 21
Avg. 1000 Sq. Ft. GFA: 782
Directional Distribution: 50% entering, 50% exiting

Truck Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
0.02	0.00 - 0.12	0.02

Data Plot and Equation



High-Cube Fulfillment Center Warehouse - Non-Sort (155)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

Number of Studies: 22

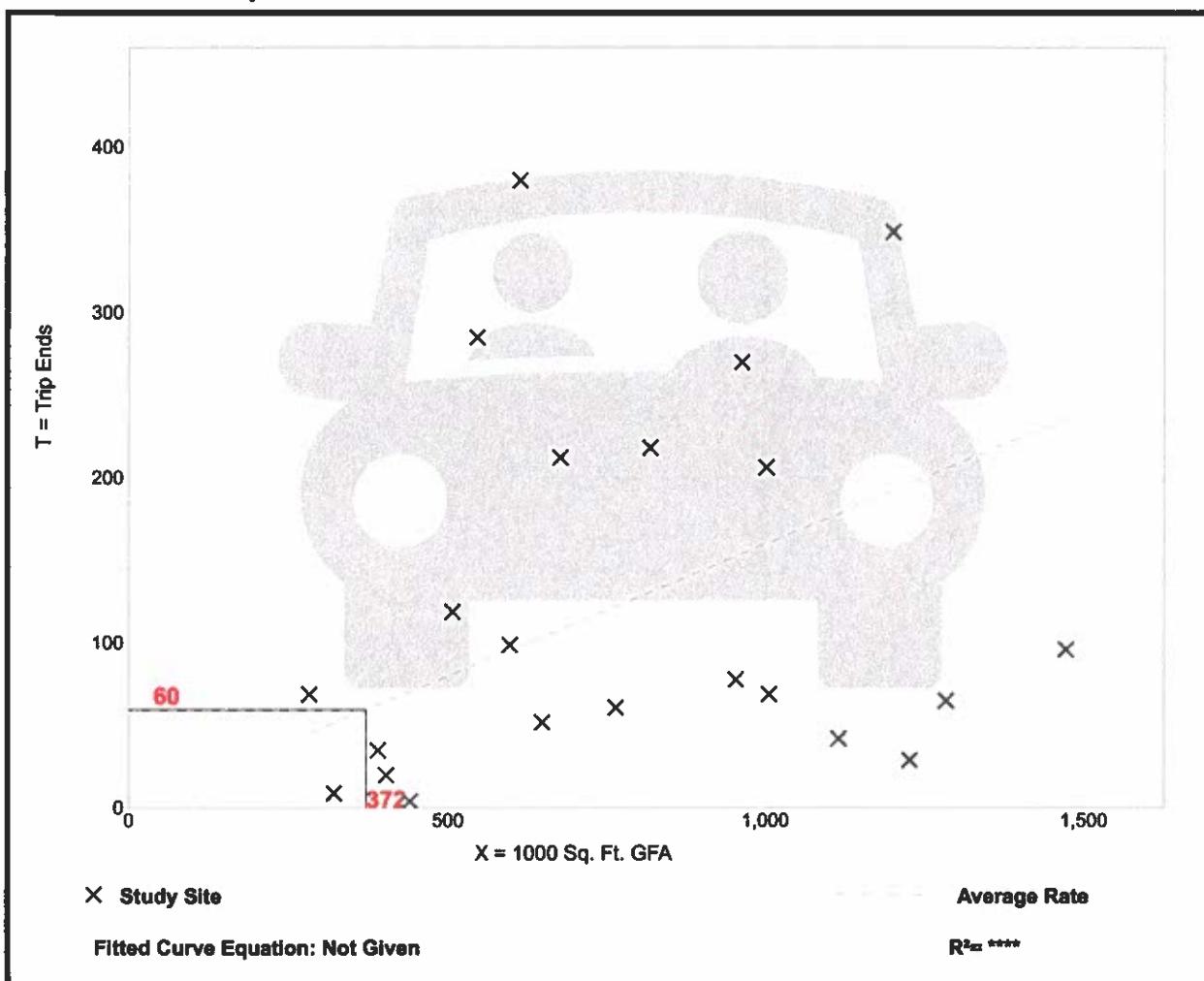
Avg. 1000 Sq. Ft. GFA: 783

Directional Distribution: 39% entering, 61% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
0.16	0.01 - 0.62	0.15

Data Plot and Equation



High-Cube Fulfillment Center Warehouse - Non-Sort (155)

Truck Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

Number of Studies: 21

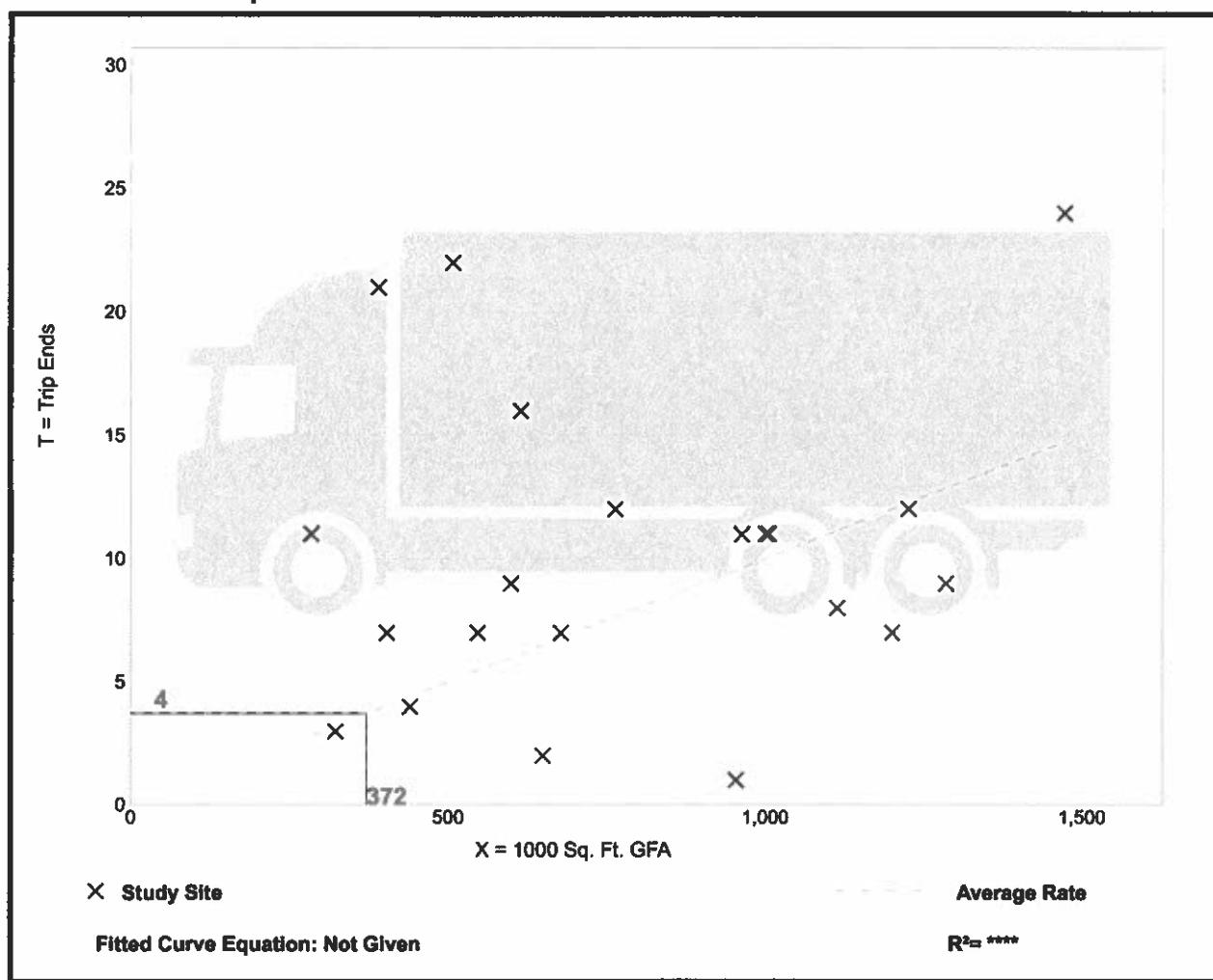
Avg. 1000 Sq. Ft. GFA: 782

Directional Distribution: 46% entering, 54% exiting

Truck Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
0.01	0.00 - 0.05	0.01

Data Plot and Equation



TRIP DISTRIBUTION - LUMENBURG, MA - INDUSTRIAL DEVELOPMENT

Residence	Place of Work	Commuting Flow				Commuting Flow			
		West	East	South	West	East	South	West	East
Massachusetts Lunenburg town	Massachusetts Lunenburg town	Western in Commuting 1,107	Luminister Shirley Rd	Route 2 0%	Reservoir Road	Shirley Rd	Luminister (Route 70)	Route 2 0%	Reservoir Road
Massachusetts Fitchburg city	Massachusetts Lunenburg town	45%	10%	0%	45%	0%	0%	0%	0%
Massachusetts Leominster city	Massachusetts Lunenburg town	42%	5%	50%	0%	0%	0%	0%	0%
Massachusetts Wellesley town	Massachusetts Lunenburg town	3%	62%	0%	40%	0%	0%	238	0
Massachusetts Townsend town	Massachusetts Lunenburg town	305	50%	0%	0%	0%	0%	103	103
Massachusetts Ashby town	Massachusetts Lunenburg town	91	40%	0%	0%	0%	60%	36	0
Massachusetts Worcester city	Massachusetts Lunenburg town	63	0%	0%	0%	0%	0%	0	0
Massachusetts Maynard town	Massachusetts Lunenburg town	5%	0%	0%	0%	0%	100%	0	0
Massachusetts Wellesley town	Massachusetts Lunenburg town	52	0%	0%	0%	0%	0%	0	0
New Hampshire New Ipswich town	Massachusetts Lunenburg town	44	75%	0%	0%	0%	25%	33	0
Massachusetts Groton city	Massachusetts Lunenburg town	42	0%	0%	0%	0%	100%	0	0
Massachusetts Auburnham town	Massachusetts Lunenburg town	38	0%	0%	0%	0%	0%	0	42
Massachusetts Westminster town	Massachusetts Lunenburg town	37	0%	0%	0%	0%	100%	0	0
Massachusetts Orange town	Massachusetts Lunenburg town	3	0%	0%	0%	0%	0%	0	37
Massachusetts Ayer town	Massachusetts Lunenburg town	3	0%	0%	0%	0%	0%	0	34
Massachusetts Shrewsbury town	Massachusetts Lunenburg town	32	0%	0%	0%	0%	0%	0	34
Massachusetts Shirley town	Massachusetts Lunenburg town	31	0%	100%	0%	0%	0%	0	24
Massachusetts Westborough town	Massachusetts Lunenburg town	31	0%	0%	0%	0%	0%	0	0
Massachusetts Upton town	Massachusetts Lunenburg town	30	0%	40%	0%	0%	60%	0	6
								1,122	12
								20	0
								701	0
								69	18
								564	0
								1,753	0
								40.00%	9.31%
								40.00%	0.00%
								25.00%	3.21%
								5.00%	20.00%
								100%	calculated



Leominster-Shirley Road
east of Reservoir Road
City, State: Lunenburg, MA
Client: GPI / H. Monticup
Site Code: NEX-2021120.00

157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequest@pdilc.com

PDI File #: 217953 ATR-A

Count Date:
Wednesday, May, 26, 2021

Volume

EB						WB						Combined					
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6:00 AM	27		6:00 PM	32		6:00 AM	13		6:00 PM	49		6:00 AM	40		6:00 PM	81	
6:15 AM	27		6:15 PM	31		6:15 AM	19		6:15 PM	44		6:15 AM	46		6:15 PM	75	
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Total	897			1174		Total	788			1670		Total	1685			2844	
Percent	43.31%			56.69%		Percent	32.06%			67.94%		Percent	37.20%			62.80%	
Day Total		2071				Day Total		2458				Day Total		4529			
Peak Hour	7:15 AM			2:30 PM		Peak Hour	11:30 AM			3:30 PM		Peak Hour	7:15 AM			3:45 PM	
Volume	202			153		Volume	159			335		Volume	336			473	
P.H.F.	0.953			0.911		P.H.F.	0.864			0.910		P.H.F.	0.955			0.917	



Leominster-Shirley Road
east of Reservoir Road
City, State: Lunenburg, MA
Client: GPI / H. Monticup
Site Code: NEX-2021120.00

157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequests@pdilinc.com

PDI File #: 217953 ATR-A

Count Date:
Thursday, May 27, 2021

Volume

EB				WB				Combined			
Start Time:	15 min	60 min		Start Time:	15 min	60 min		Start Time:	15 min	60 min	
12:00 AM	4	12:00 PM	33	12:00 AM	5	12:00 PM	30	12:00 AM	9	12:00 PM	63
12:15 AM	0	12:15 PM	34	12:15 AM	2	12:15 PM	29	12:15 AM	2	12:15 PM	63
12:30 AM	3	12:30 PM	23	12:30 AM	1	12:30 PM	36	12:30 AM	4	12:30 PM	59
12:45 AM	1	12:45 PM	39	12:45 AM	1	12:45 PM	41	12:45 AM	2	12:45 PM	80
1:00 AM	0	1:00 PM	32	1:00 AM	1	1:00 PM	25	1:00 AM	1	1:00 PM	57
1:15 AM	2	1:15 PM	38	1:15 AM	0	1:15 PM	34	1:15 AM	2	1:15 PM	72
1:30 AM	1	1:30 PM	35	1:30 AM	1	1:30 PM	41	1:30 AM	2	1:30 PM	76
1:45 AM	0	1:45 PM	29	1:45 AM	0	1:45 PM	23	1:45 AM	0	1:45 PM	52
2:00 AM	1	2:00 PM	22	2:00 AM	0	2:00 PM	49	2:00 AM	1	2:00 PM	71
2:15 AM	2	2:15 PM	29	2:15 AM	1	2:15 PM	54	2:15 AM	3	2:15 PM	83
2:30 AM	2	2:30 PM	39	2:30 AM	0	2:30 PM	50	2:30 AM	2	2:30 PM	89
2:45 AM	2	2:45 PM	53	2:45 AM	0	2:45 PM	49	2:45 AM	2	2:45 PM	102
3:00 AM	1	3:00 PM	37	3:00 AM	2	3:00 PM	58	3:00 AM	3	3:00 PM	95
3:15 AM	4	3:15 PM	38	3:15 AM	1	3:15 PM	74	3:15 AM	5	3:15 PM	112
3:30 AM	2	3:30 PM	53	3:30 AM	2	3:30 PM	73	3:30 AM	4	3:30 PM	126
3:45 AM	1	3:45 PM	25	3:45 AM	3	3:45 PM	77	3:45 AM	4	3:45 PM	102
4:00 AM	2	4:00 PM	33	4:00 AM	0	4:00 PM	96	4:00 AM	2	4:00 PM	129
4:15 AM	3	4:15 PM	35	4:15 AM	1	4:15 PM	103	4:15 AM	4	4:15 PM	138
4:30 AM	5	4:30 PM	40	4:30 AM	1	4:30 PM	70	4:30 AM	6	4:30 PM	110
4:45 AM	7	4:45 PM	43	4:45 AM	4	4:45 PM	87	4:45 AM	11	4:45 PM	130
5:00 AM	5	5:00 PM	38	5:00 AM	3	5:00 PM	67	5:00 AM	8	5:00 PM	105
5:15 AM	6	5:15 PM	45	5:15 AM	7	5:15 PM	58	5:15 AM	13	5:15 PM	103
5:30 AM	20	5:30 PM	37	5:30 AM	11	5:30 PM	60	5:30 AM	31	5:30 PM	97
5:45 AM	20	5:45 PM	36	5:45 AM	9	5:45 PM	50	5:45 AM	29	5:45 PM	86
6:00 AM	28	6:00 PM	34	6:00 AM	17	6:00 PM	30	6:00 AM	45	6:00 PM	64
6:15 AM	24	6:15 PM	31	6:15 AM	16	6:15 PM	34	6:15 AM	40	6:15 PM	65
6:30 AM	45	6:30 PM	28	6:30 AM	20	6:30 PM	38	6:30 AM	65	6:30 PM	66
6:45 AM	55	6:45 PM	36	6:45 AM	14	6:45 PM	32	6:45 AM	69	6:45 PM	263
7:00 AM	50	7:00 PM	31	7:00 AM	20	7:00 PM	26	7:00 AM	70	7:00 PM	57
7:15 AM	52	7:15 PM	34	7:15 AM	30	7:15 PM	33	7:15 AM	82	7:15 PM	67
7:30 AM	57	7:30 PM	25	7:30 AM	21	7:30 PM	39	7:30 AM	78	7:30 PM	64
7:45 AM	43	7:45 PM	21	7:45 AM	52	7:45 PM	35	7:45 AM	95	7:45 PM	244
8:00 AM	50	8:00 PM	40	8:00 AM	32	8:00 PM	28	8:00 AM	82	8:00 PM	68
8:15 AM	69	8:15 PM	24	8:15 AM	28	8:15 PM	18	8:15 AM	97	8:15 PM	42
8:30 AM	45	8:30 PM	18	8:30 AM	43	8:30 PM	21	8:30 AM	88	8:30 PM	39
8:45 AM	33	8:45 PM	29	8:45 AM	44	8:45 PM	13	8:45 AM	77	8:45 PM	42
9:00 AM	21	9:00 PM	18	9:00 AM	36	9:00 PM	19	9:00 AM	57	9:00 PM	37
9:15 AM	22	9:15 PM	13	9:15 AM	33	9:15 PM	9	9:15 AM	55	9:15 PM	22
9:30 AM	32	9:30 PM	8	9:30 AM	24	9:30 PM	7	9:30 AM	56	9:30 PM	15
9:45 AM	25	9:45 PM	14	9:45 AM	25	9:45 PM	6	9:45 AM	50	9:45 PM	94
10:00 AM	26	10:00 PM	8	10:00 AM	33	10:00 PM	7	10:00 AM	59	10:00 PM	15
10:15 AM	27	10:15 PM	7	10:15 AM	36	10:15 PM	7	10:15 AM	63	10:15 PM	14
10:30 AM	28	10:30 PM	11	10:30 AM	31	10:30 PM	9	10:30 AM	59	10:30 PM	20
10:45 AM	30	10:45 PM	8	10:45 AM	36	10:45 PM	3	10:45 AM	66	10:45 PM	60
11:00 AM	16	11:00 PM	6	11:00 AM	29	11:00 PM	6	11:00 AM	45	11:00 PM	12
11:15 AM	24	11:15 PM	3	11:15 AM	25	11:15 PM	10	11:15 AM	49	11:15 PM	13
11:30 AM	31	11:30 PM	1	11:30 AM	31	11:30 PM	4	11:30 AM	62	11:30 PM	5
11:45 AM	31	11:45 PM	4	11:45 AM	35	11:45 PM	6	11:45 AM	66	11:45 PM	40
Total	958		1318	Total	767		1774	Total	1725		3092
Percent	42.09%		57.91%	Percent	30.18%		69.82%	Percent	35.81%		64.19%
Day Total		2276		Day Total		2541		Day Total		4817	
Peak Hour	7:30 AM		2:45 PM	Peak Hour	8:30 AM		4:00 PM	Peak Hour	7:45 AM		4:00 PM
Volume	219		181	Volume	156		356	Volume	362		507
P.H.F.	0.793		0.854	P.H.F.	0.886		0.864	P.H.F.	0.933		0.918

Leominster-Shirley Road

east of Reservoir Road

City, State: Lunenburg, MA

Client: GPI / H. Monticup

Site Code: NEX-2021120.00



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequest@pdilc.com

PDI File #: 217953 ATR-A

Count Date

Wednesday, May, 26, 2021

Classification (60-minute)

EB

Start Time:	Cycles	Cars and Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
12:00 AM	0	5	0	0	1	0	0	0	0	0	0	0	0	6
1:00 AM	0	2	1	0	0	0	2	0	0	0	0	0	0	5
2:00 AM	0	6	1	0	1	1	0	0	0	0	0	0	0	9
3:00 AM	0	4	1	0	0	1	0	0	0	0	0	0	0	6
4:00 AM	0	10	2	0	1	0	0	0	2	0	0	0	0	15
5:00 AM	0	38	14	1	3	0	0	0	0	0	0	0	0	56
6:00 AM	3	101	32	0	15	1	0	0	3	0	0	0	0	155
7:00 AM	3	147	28	0	9	5	0	1	1	0	0	0	0	194
8:00 AM	6	98	24	0	5	3	0	2	1	0	0	0	0	139
9:00 AM	0	69	25	0	1	1	1	1	0	0	0	0	0	98
10:00 AM	0	61	23	0	3	2	1	2	2	0	0	0	0	94
11:00 AM	3	85	22	0	6	4	0	0	0	0	0	0	0	120
12:00 PM	1	95	25	0	7	1	0	1	2	0	0	0	0	132
1:00 PM	4	94	16	1	1	1	0	0	1	0	0	0	0	118
2:00 PM	0	111	17	0	3	1	0	1	3	0	0	0	0	136
3:00 PM	2	107	24	1	5	3	0	0	0	0	0	0	0	142
4:00 PM	1	113	19	0	4	0	0	0	1	0	0	0	0	138
5:00 PM	5	98	23	0	2	0	0	1	0	0	0	0	0	129
6:00 PM	1	95	24	0	2	0	0	1	1	0	0	0	0	124
7:00 PM	0	92	15	0	6	0	0	0	0	0	0	0	0	113
8:00 PM	1	57	7	0	2	0	0	0	0	0	0	0	0	67
9:00 PM	0	33	3	0	0	0	0	0	0	0	0	0	0	36
10:00 PM	0	22	5	0	1	0	0	0	0	0	0	0	0	28
11:00 PM	0	10	1	0	0	0	0	0	0	0	0	0	0	11
Total	30	1553	352	3	78	24	4	10	17	0	0	0	0	2071
Percent	1.45%	74.99%	17.00%	0.14%	3.77%	1.16%	0.19%	0.48%	0.82%	0.00%	0.00%	0.00%	0.00%	
AM Peak Volume	8:00 AM	7:00 AM	6:00 AM	5:00 AM	6:00 AM	7:00 AM	1:00 AM	8:00 AM	6:00 AM					7:00 AM
	6	147	32	1	15	5	2	2	3	0	0	0	0	194
PM Peak Volume	5:00 PM	4:00 PM	12:00 PM	1:00 PM	12:00 PM	3:00 PM		12:00 PM	2:00 PM					3:00 PM
	5	113	25	1	7	3	0	1	3	0	0	0	0	142

Cycles:	30	1.4%
Cars and Light Trucks:	1905	92.0%
Heavy Vehicles:	136	6.6%

Leominster-Shirley Road

east of Reservoir Road

City, State: Lunenburg, MA

Client: GPI/H. Monticup

Site Code: NEX-2021120.00



157 Washington Street, Suite 2
Judson, MA 01749
508-875-0100 datars@pdilc.com

PDI File #: 217953 ATR-A

Count Date

Wednesday, May, 26, 2021

Classification (60-minute)

WB

Start Time:	Cycles	Cars and Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
12:00 AM	0	7	0	0	1	0	0	0	0	0	0	0	0	8
1:00 AM	0	5	0	0	0	3	0	0	0	0	0	0	0	8
2:00 AM	0	2	0	0	0	0	0	0	0	0	0	0	0	2
3:00 AM	0	1	2	0	0	1	0	0	0	0	0	0	0	4
4:00 AM	0	10	2	0	0	0	0	0	0	0	0	0	0	12
5:00 AM	0	23	5	0	2	0	0	0	1	0	0	0	0	31
6:00 AM	0	50	13	2	4	2	0	2	0	0	0	0	0	73
7:00 AM	0	92	22	0	3	2	0	1	0	0	0	0	0	120
8:00 AM	2	95	31	0	7	4	1	1	0	0	0	0	0	141
9:00 AM	0	77	18	1	6	1	0	2	2	0	0	0	0	107
10:00 AM	0	93	21	0	5	4	0	2	1	0	0	0	0	126
11:00 AM	4	106	33	1	6	5	0	1	0	0	0	0	0	156
12:00 PM	1	95	25	0	6	2	0	0	1	0	0	0	0	130
1:00 PM	6	109	25	0	5	1	1	1	2	0	0	0	0	150
2:00 PM	1	137	28	1	14	1	0	2	1	0	0	0	0	185
3:00 PM	2	210	43	0	6	4	0	8	2	0	0	0	0	275
4:00 PM	2	239	58	1	10	2	0	1	0	0	0	0	0	313
5:00 PM	2	197	35	0	7	1	0	2	1	0	0	0	0	245
6:00 PM	1	112	36	0	5	0	0	1	0	0	0	0	0	155
7:00 PM	1	63	14	0	3	0	0	1	0	0	0	0	0	82
8:00 PM	0	57	10	0	3	0	0	0	0	0	0	0	0	70
9:00 PM	0	19	4	0	1	0	0	0	0	0	0	0	0	24
10:00 PM	0	19	0	0	1	0	0	0	0	0	0	0	0	20
11:00 PM	0	18	3	0	0	0	0	0	0	0	0	0	0	21
PM Total	22	1836	428	6	95	33	2	25	11	0	0	0	0	2458
Percent	0.90%	74.69%	17.41%	0.24%	3.86%	1.34%	0.08%	1.02%	0.45%	0.00%	0.00%	0.00%	0.00%	

AM Peak Volume	11:00 AM	11:00 AM	11:00 AM	6:00 AM	8:00 AM	11:00 AM	8:00 AM	6:00 AM	9:00 AM					11:00 AM
	4	106	33	2	7	5	1	2	2	0	0	0	0	156

PM Peak Volume	1:00 PM	4:00 PM	4:00 PM	2:00 PM	2:00 PM	3:00 PM	1:00 PM	3:00 PM	1:00 PM					4:00 PM
	6	239	58	1	14	4	1	8	2	0	0	0	0	313

Cycles:	22	0.9%
Cars and Light Trucks:	2264	92.1%
Heavy Vehicles:	172	7.0%

Leominster-Shirley Road

east of Reservoir Road

City, State: Lunenburg, MA

Client: GPI/ H. Monticup

Site Code: NEX-2021120.00



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 jaturrequest@pdillc.com

PDI File #: 217953 ATR-A

Count Date

Wednesday, May, 26, 2021

Classification (60-minute)

Combined

Start Time:	Cycles	Cars and Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
12:00 AM	0	12	0	0	2	0	0	0	0	0	0	0	0	14
1:00 AM	0	7	1	0	0	3	2	0	0	0	0	0	0	13
2:00 AM	0	8	1	0	1	1	0	0	0	0	0	0	0	11
3:00 AM	0	5	3	0	0	2	0	0	0	0	0	0	0	10
4:00 AM	0	20	4	0	1	0	0	0	2	0	0	0	0	27
5:00 AM	0	61	19	1	5	0	0	0	1	0	0	0	0	87
6:00 AM	3	151	45	2	19	3	0	2	3	0	0	0	0	228
7:00 AM	3	239	50	0	12	7	0	2	1	0	0	0	0	314
8:00 AM	8	193	55	0	12	7	1	3	1	0	0	0	0	280
9:00 AM	0	146	43	1	7	2	1	3	2	0	0	0	0	205
10:00 AM	0	154	44	0	8	6	1	4	3	0	0	0	0	220
11:00 AM	7	191	55	1	12	9	0	1	0	0	0	0	0	276
12:00 PM	2	190	50	0	13	3	0	1	3	0	0	0	0	262
1:00 PM	10	203	41	1	6	2	1	1	3	0	0	0	0	268
2:00 PM	1	248	45	1	17	2	0	3	4	0	0	0	0	321
3:00 PM	4	317	67	1	11	7	0	8	2	0	0	0	0	417
4:00 PM	3	352	77	1	14	2	0	1	1	0	0	0	0	451
5:00 PM	7	295	58	0	9	1	0	3	1	0	0	0	0	374
6:00 PM	2	207	60	0	7	0	0	2	1	0	0	0	0	279
7:00 PM	1	155	29	0	9	0	0	1	0	0	0	0	0	195
8:00 PM	1	114	17	0	5	0	0	0	0	0	0	0	0	137
9:00 PM	0	52	7	0	1	0	0	0	0	0	0	0	0	60
10:00 PM	0	41	5	0	2	0	0	0	0	0	0	0	0	48
11:00 PM	0	28	4	0	0	0	0	0	0	0	0	0	0	32
PM Total	52	3389	780	9	173	57	6	35	28	0	0	0	0	4529
Percent	1.15%	74.83%	17.22%	0.20%	3.82%	1.26%	0.13%	0.77%	0.62%	0.00%	0.00%	0.00%	0.00%	
AM Peak Volume	8:00 AM	7:00 AM	8:00 AM	6:00 AM	6:00 AM	11:00 AM	1:00 AM	10:00 AM	6:00 AM					7:00 AM
	8	239	55	2	19	9	2	4	3	0	0	0	0	314
PM Peak Volume	1:00 PM	4:00 PM	4:00 PM	1:00 PM	2:00 PM	3:00 PM	1:00 PM	3:00 PM	2:00 PM					4:00 PM
	10	352	77	1	17	7	1	8	4	0	0	0	0	451

Cycles:	52	1.1%
Cars and Light Trucks:	4169	92.1%
Heavy Vehicles:	308	6.8%

Leominster-Shirley Road

east of Reservoir Road

City, State: Lunenburg, MA

Client: GPI / H. Monticup

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12:00 AM	0	7	1	0	0	0	0	0	0	0	0	0	0	8
1:00 AM	0	2	0	0	1	0	0	0	0	0	0	0	0	3
2:00 AM	0	6	0	0	0	0	1	0	0	0	0	0	0	7
3:00 AM	0	6	2	0	0	0	0	0	0	0	0	0	0	8
4:00 AM	0	12	4	0	0	0	0	0	1	0	0	0	0	17
5:00 AM	0	33	15	1	1	0	1	0	0	0	0	0	0	51
6:00 AM	2	103	38	1	7	1	0	0	0	0	0	0	0	152
7:00 AM	3	156	28	3	9	0	1	1	1	0	0	0	0	202
8:00 AM	0	152	30	1	11	1	1	0	1	0	0	0	0	197
9:00 AM	1	60	24	0	8	2	0	5	0	0	0	0	0	100
10:00 AM	0	78	19	1	3	4	3	1	2	0	0	0	0	111
11:00 AM	2	82	11	0	5	0	1	1	0	0	0	0	0	102
12:00 PM	2	95	21	1	5	0	1	0	4	0	0	0	0	129
1:00 PM	4	100	21	2	4	1	0	2	0	0	0	0	0	134
2:00 PM	0	119	19	0	1	0	1	1	2	0	0	0	0	143
3:00 PM	4	114	24	3	2	1	0	2	3	0	0	0	0	153
4:00 PM	5	119	20	1	4	1	0	0	1	0	0	0	0	151
5:00 PM	2	127	20	0	5	1	0	0	1	0	0	0	0	156
6:00 PM	1	104	22	0	1	0	0	1	0	0	0	0	0	129
7:00 PM	3	89	16	0	3	0	0	0	0	0	0	0	0	111
8:00 PM	4	93	14	0	0	0	0	0	0	0	0	0	0	111
9:00 PM	1	44	7	0	1	0	0	0	0	0	0	0	0	53
10:00 PM	1	23	9	0	1	0	0	0	0	0	0	0	0	34
11:00 PM	0	11	3	0	0	0	0	0	0	0	0	0	0	14
Total	35	1735	368	14	72	12	10	14	16	0	0	0	0	2276
Percent	1.54%	76.23%	16.17%	0.62%	3.16%	0.53%	0.44%	0.62%	0.70%	0.00%	0.00%	0.00%	0.00%	
AM Peak Volume	7:00 AM	7:00 AM	6:00 AM	7:00 AM	8:00 AM	10:00 AM	10:00 AM	9:00 AM	10:00 AM					7:00 AM
PM Peak Volume	4:00 PM	5:00 PM	3:00 PM	3:00 PM	12:00 PM	1:00 PM	12:00 PM	1:00 PM	12:00 PM					5:00 PM

Cycles:	35	1.5%
Cars and Light Trucks:	2103	92.4%
Heavy Vehicles:	138	6.1%

Leominster-Shirley Road
east of Reservoir Road
City, State: Lunenburg, MA
Client: GPI/H. Monticup
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WB

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12:00 AM	0	8	0	0	1	0	0	0	0	0	0	0	0	9
1:00 AM	0	2	0	0	0	0	0	0	0	0	0	0	0	2
2:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	0	1
3:00 AM	0	5	2	0	1	0	0	0	0	0	0	0	0	8
4:00 AM	0	2	3	0	1	0	0	0	0	0	0	0	0	6
5:00 AM	0	20	8	0	1	0	0	0	1	0	0	0	0	30
6:00 AM	0	47	16	1	2	1	0	0	0	0	0	0	0	67
7:00 AM	2	91	21	0	6	0	0	0	3	0	0	0	0	123
8:00 AM	0	110	29	0	5	1	0	0	2	0	0	0	0	147
9:00 AM	2	82	26	0	5	1	1	1	0	0	0	0	0	118
10:00 AM	0	98	27	2	3	2	0	2	2	0	0	0	0	136
11:00 AM	1	92	21	0	5	0	1	0	0	0	0	0	0	120
12:00 PM	3	95	20	2	11	2	0	1	2	0	0	0	0	136
1:00 PM	1	82	25	1	11	2	0	0	1	0	0	0	0	123
2:00 PM	5	147	39	2	7	2	0	0	0	0	0	0	0	202
3:00 PM	3	198	59	1	13	3	0	2	2	1	0	0	0	282
4:00 PM	5	272	61	0	10	2	1	3	2	0	0	0	0	356
5:00 PM	6	181	39	0	6	0	1	2	0	0	0	0	0	235
6:00 PM	2	109	21	0	1	0	1	0	0	0	0	0	0	134
7:00 PM	3	105	20	0	5	0	0	0	0	0	0	0	0	133
8:00 PM	2	61	17	0	0	0	0	0	0	0	0	0	0	80
9:00 PM	1	35	5	0	0	0	0	0	0	0	0	0	0	41
10:00 PM	0	21	5	0	0	0	0	0	0	0	0	0	0	26
11:00 PM	0	24	2	0	0	0	0	0	0	0	0	0	0	26
PM Total	36	1887	466	9	94	16	5	12	15	1	0	0	0	2541
Percent	1.42%	74.26%	18.34%	0.35%	3.70%	0.63%	0.20%	0.47%	0.59%	0.04%	0.00%	0.00%	0.00%	
AM Peak Volume	7:00 AM	8:00 AM	8:00 AM	10:00 AM	7:00 AM	10:00 AM	9:00 AM	10:00 AM	7:00 AM	0	0	0	0	8:00 AM
PM Peak Volume	5:00 PM	4:00 PM	4:00 PM	12:00 PM	3:00 PM	3:00 PM	4:00 PM	4:00 PM	12:00 PM	3:00 PM	0	0	0	4:00 PM

Cycles:	36	1.4%
Cars and Light Trucks:	2353	92.6%
Heavy Vehicles:	152	6.0%

Leominster-Shirley Road
east of Reservoir Road
City, State: Lunenburg, MA
Client: GPI / H. Monticup
Site Code: NEX-2021120.00



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 dataquest@pdilc.com

PDI File #: 217953 ATR-A

Count Date
Thursday, May 27, 2021

Classification (60-minute)

Combined

Start Time:	Cycles	Cars and Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
12:00 AM	0	15	1	0	1	0	0	0	0	0	0	0	0	17
1:00 AM	0	4	0	0	1	0	0	0	0	0	0	0	0	5
2:00 AM	0	6	0	0	0	0	1	1	0	0	0	0	0	8
3:00 AM	0	11	4	0	1	0	0	0	0	0	0	0	0	16
4:00 AM	0	14	7	0	1	0	0	0	1	0	0	0	0	23
5:00 AM	0	53	23	1	2	0	1	0	1	0	0	0	0	81
6:00 AM	2	150	54	2	9	2	0	0	0	0	0	0	0	219
7:00 AM	5	247	49	3	15	0	1	1	4	0	0	0	0	325
8:00 AM	0	262	59	1	16	2	1	0	3	0	0	0	0	344
9:00 AM	3	142	50	0	13	3	1	6	0	0	0	0	0	218
10:00 AM	0	176	46	3	6	6	3	3	4	0	0	0	0	247
11:00 AM	3	174	32	0	10	0	2	1	0	0	0	0	0	222
12:00 PM	5	190	41	3	16	2	1	1	6	0	0	0	0	265
1:00 PM	5	182	46	3	15	3	0	2	1	0	0	0	0	257
2:00 PM	5	266	58	2	8	2	1	1	2	0	0	0	0	345
3:00 PM	7	312	83	4	15	4	0	4	5	1	0	0	0	435
4:00 PM	10	391	81	1	14	3	1	3	3	0	0	0	0	507
5:00 PM	8	308	59	0	11	1	1	2	1	0	0	0	0	391
6:00 PM	3	213	43	0	2	0	1	1	0	0	0	0	0	263
7:00 PM	6	194	36	0	8	0	0	0	0	0	0	0	0	244
8:00 PM	6	154	31	0	0	0	0	0	0	0	0	0	0	191
9:00 PM	2	79	12	0	1	0	0	0	0	0	0	0	0	94
10:00 PM	1	44	14	0	1	0	0	0	0	0	0	0	0	60
11:00 PM	0	35	5	0	0	0	0	0	0	0	0	0	0	40
PM Total	71	3622	834	23	166	28	15	26	31	1	0	0	0	4817
Percent	1.47%	75.19%	17.31%	0.48%	3.45%	0.58%	0.31%	0.54%	0.64%	0.02%	0.00%	0.00%	0.00%	
AM Peak Volume	7:00 AM	8:00 AM	8:00 AM	7:00 AM	8:00 AM	10:00 AM	10:00 AM	9:00 AM	7:00 AM					8:00 AM
	5	262	59	3	16	6	3	6	4	0	0	0	0	344
PM Peak Volume	4:00 PM	4:00 PM	3:00 PM	3:00 PM	12:00 PM	3:00 PM	12:00 PM	3:00 PM	12:00 PM	3:00 PM				4:00 PM
	10	391	83	4	16	4	1	4	6	1	0	0	0	507

Cycles:	71	1.5%
Cars and Light Trucks:	4456	92.5%
Heavy Vehicles:	290	6.0%



Leominster-Shirley Road
east of Reservoir Road
City, State: Lunenburg, MA
Client: GPI/ H. Monticup
Site Code: NEX-2021120.00

PDI File #: 217953 ATR-A

157 Washington Street, Suite 2
Holden, MA 01749
508-875-0100 datarequests@pdilc.com

Count Date
Wednesday, May, 26, 2021

Speed (60-minute)

EB

Start Time:	1 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70+	Total	85th %ile	Ave Speed
12:00 AM	0	0	1	0	0	1	3	1	0	0	0	0	0	6	42.5	38.0
1:00 AM	0	0	0	0	0	1	3	1	0	0	0	0	0	5	44.4	41.6
2:00 AM	0	0	0	0	1	2	5	1	0	0	0	0	0	9	43.4	39.6
3:00 AM	0	0	0	0	0	1	3	2	0	0	0	0	0	6	46.3	42.7
4:00 AM	0	0	0	0	1	4	6	3	1	0	0	0	0	15	46.8	41.2
5:00 AM	0	0	0	0	2	9	29	15	0	1	0	0	0	56	46.0	42.6
6:00 AM	0	0	0	2	5	34	64	40	10	0	0	0	0	155	47.0	42.1
7:00 AM	0	0	0	2	6	33	100	49	4	0	0	0	0	194	46.1	42.4
8:00 AM	0	0	0	1	3	34	66	29	6	0	0	0	0	139	46.3	41.9
9:00 AM	0	0	0	1	3	14	54	23	3	0	0	0	0	98	46.0	42.4
10:00 AM	0	1	1	1	2	21	34	31	3	0	0	0	0	94	47.0	42.2
11:00 AM	2	0	1	0	1	29	53	28	6	0	0	0	0	120	47.0	41.7
12:00 PM	0	0	0	1	3	27	59	35	5	2	0	0	0	132	47.0	42.7
1:00 PM	0	1	0	0	2	27	58	28	2	0	0	0	0	118	46.0	41.9
2:00 PM	0	0	1	0	7	36	58	25	7	2	0	0	0	136	46.0	41.7
3:00 PM	0	0	0	0	3	33	55	46	5	0	0	0	0	142	47.0	42.5
4:00 PM	0	1	0	1	3	24	62	39	7	1	0	0	0	138	47.0	42.6
5:00 PM	0	0	0	0	3	24	53	39	8	2	0	0	0	129	48.0	43.2
6:00 PM	0	0	0	0	0	27	64	31	2	0	0	0	0	124	46.0	42.3
7:00 PM	0	0	0	4	7	28	42	27	4	1	0	0	0	113	46.0	41.0
8:00 PM	0	1	0	0	7	26	24	6	2	1	0	0	0	67	43.1	39.6
9:00 PM	0	0	0	0	4	12	9	9	2	0	0	0	0	36	48.0	41.1
10:00 PM	0	0	0	0	1	7	11	7	2	0	0	0	0	28	48.0	42.4
11:00 PM	0	0	0	0	0	5	4	2	0	0	0	0	0	11	44.5	41.0
Total	2	4	4	13	64	459	919	517	79	10	0	0	0	2071	47.0	42.1
Percent	0.10%	0.19%	0.19%	0.63%	3.09%	22.16%	44.37%	24.96%	3.81%	0.48%	0.00%	0.00%	0.00%			

AM Peak	11:00 AM	10:00 AM	12:00 AM	6:00 AM	7:00 AM	6:00 AM	7:00 AM	7:00 AM	6:00 AM	5:00 AM					7:00 AM
Volume	2	1	1	2	6	34	100	49	10	1	0	0	0		194

PM Peak	1:00 PM	2:00 PM	7:00 PM	2:00 PM	2:00 PM	6:00 PM	3:00 PM	5:00 PM	12:00 PM						3:00 PM
Volume	0	1	1	4	7	36	64	46	8	2	0	0	0		142

15th Percentile:	38.0 MPH	Average Speed:	42.1 MPH	Posted Speed Limit:	40 MPH
50th Percentile:	42.0 MPH	10 MPH Pace:	38 to 47 MPH	Number of Vehicles > 40 MPH:	1359
85th Percentile:	47.0 MPH	Number in Pace:	1556	Percent of Vehicles > 40 MPH:	65.6%
95th Percentile:	49.0 MPH	Percent in Pace:	75.1%		



Leominster-Shirley Road
east of Reservoir Road
City, State: Lunenburg, MA
Client: GPI / H. Monticup
Site Code: NEX-2021120.00

157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequests@pdilic.com

PDI File #: 217953 ATR-A

Count Date
Wednesday, May, 26, 2021

Speed (60-minute)

WB

Start Time:	1 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70+	Total	85th %ile	Ave Speed
12:00 AM	0	0	0	0	0	2	4	2	0	0	0	0	0	8	45.0	42.0
1:00 AM	0	0	0	0	2	3	2	1	0	0	0	0	0	8	43.0	38.0
2:00 AM	0	0	0	0	0	1	0	1	0	0	0	0	0	2	44.0	41.5
3:00 AM	0	0	0	0	1	1	2	0	0	0	0	0	0	4	42.2	39.0
4:00 AM	0	0	0	0	0	3	4	3	2	0	0	0	0	12	49.7	43.8
5:00 AM	0	0	0	1	0	12	7	8	3	0	0	0	0	31	46.0	41.5
6:00 AM	0	0	0	0	4	20	30	13	4	2	0	0	0	73	47.0	42.0
7:00 AM	0	0	0	2	6	42	54	13	3	0	0	0	0	120	44.0	40.3
8:00 AM	0	0	0	0	7	53	62	19	0	0	0	0	0	141	44.0	40.5
9:00 AM	0	0	0	3	6	27	50	16	5	0	0	0	0	107	45.1	41.0
10:00 AM	0	0	0	2	5	38	56	23	2	0	0	0	0	126	45.0	40.9
11:00 AM	0	0	0	1	15	51	65	20	4	0	0	0	0	156	44.8	40.1
12:00 PM	0	0	0	1	8	44	55	21	1	0	0	0	0	130	45.0	40.5
1:00 PM	0	0	0	1	11	52	61	20	4	1	0	0	0	150	45.0	40.6
2:00 PM	0	0	0	1	10	51	90	30	3	0	0	0	0	185	45.0	41.1
3:00 PM	0	0	0	0	6	87	145	29	8	0	0	0	0	275	44.0	41.0
4:00 PM	1	0	0	0	13	85	161	48	5	0	0	0	0	313	45.0	41.1
5:00 PM	0	0	0	0	3	53	136	47	6	0	0	0	0	245	46.0	42.0
6:00 PM	0	0	0	0	6	42	90	16	0	1	0	0	0	155	44.0	40.9
7:00 PM	0	0	0	1	7	32	29	10	2	0	0	1	0	82	44.9	40.0
8:00 PM	0	0	0	0	9	28	28	5	0	0	0	0	0	70	43.0	39.2
9:00 PM	0	0	0	2	2	9	8	2	1	0	0	0	0	24	44.0	38.9
10:00 PM	0	0	0	0	1	6	7	4	2	0	0	0	0	20	47.2	42.0
11:00 PM	0	0	0	0	3	9	6	2	1	0	0	0	0	21	43.0	39.4
Total	1	0	0	15	125	751	1152	353	56	4	0	1	0	2458	45.0	40.9
Percent	0.04%	0.00%	0.00%	0.61%	5.09%	30.55%	46.87%	14.36%	2.28%	0.16%	0.00%	0.04%	0.00%			

AM Peak Volume 9:00 AM 11:00 AM 8:00 AM 11:00 AM 10:00 AM 9:00 AM 6:00 AM 11:00 AM

PM Peak Volume 4:00 PM 9:00 PM 4:00 PM 3:00 PM 4:00 PM 4:00 PM 3:00 PM 1:00 PM 7:00 PM 4:00 PM

15th Percentile:	37.0 MPH	Average Speed:	40.9 MPH	Posted Speed Limit:	40 MPH
50th Percentile:	41.0 MPH	10 MPH Pace:	37 to 46 MPH	Number of Vehicles > 40 MPH:	1319
85th Percentile:	45.0 MPH	Number in Pace:	1989	Percent of Vehicles > 40 MPH:	53.7%
95th Percentile:	47.0 MPH	Percent in Pace:	80.9%		

Leominster-Shirley Road

east of Reservoir Road

City, State: Lunenburg, MA

Client: GPI / H. Monticup

Site Code: NEX-2021120.00



PDI File #: 217953 ATR-A

 157 Washington Street, Suite 2
 Hudson, MA 01749
 508-875-0100 datarequests@pdilc.com

Count Date

Wednesday, May, 26, 2021

Speed (60-minute)

Combined EB and WB

Start Time:	1 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70+	Total	85th %ile	Ave Speed
12:00 AM	0	0	1	0	0	3	7	3	0	0	0	0	0	14	45.1	40.3
1:00 AM	0	0	0	0	2	4	5	2	0	0	0	0	0	13	44.2	39.4
2:00 AM	0	0	0	0	1	3	5	2	0	0	0	0	0	11	44.5	39.9
3:00 AM	0	0	0	0	1	2	5	2	0	0	0	0	0	10	45.3	41.2
4:00 AM	0	0	0	0	1	7	10	6	3	0	0	0	0	27	47.2	42.4
5:00 AM	0	0	0	1	2	21	36	23	3	1	0	0	0	87	46.0	42.2
6:00 AM	0	0	0	2	9	54	94	53	14	2	0	0	0	228	47.0	42.1
7:00 AM	0	0	0	4	12	75	154	62	7	0	0	0	0	314	46.0	41.6
8:00 AM	0	0	0	1	10	87	128	48	6	0	0	0	0	280	45.0	41.2
9:00 AM	0	0	0	4	9	41	104	39	8	0	0	0	0	205	46.0	41.7
10:00 AM	0	1	1	3	7	59	90	54	5	0	0	0	0	220	46.0	41.4
11:00 AM	2	0	1	1	16	80	118	48	10	0	0	0	0	276	45.8	40.8
12:00 PM	0	0	0	2	11	71	114	56	6	2	0	0	0	262	46.0	41.6
1:00 PM	0	1	0	1	13	79	119	48	6	1	0	0	0	268	45.0	41.2
2:00 PM	0	0	1	1	17	87	148	55	10	2	0	0	0	321	45.0	41.4
3:00 PM	0	0	0	0	9	120	200	75	13	0	0	0	0	417	46.0	41.5
4:00 PM	1	1	0	1	16	109	223	87	12	1	0	0	0	451	45.5	41.5
5:00 PM	0	0	0	0	6	77	189	86	14	2	0	0	0	374	47.0	42.4
6:00 PM	0	0	0	0	6	69	154	47	2	1	0	0	0	279	45.0	41.5
7:00 PM	0	0	0	5	14	60	71	37	6	1	0	1	0	195	46.0	40.6
8:00 PM	0	1	0	0	16	54	52	11	2	1	0	0	0	137	43.0	39.4
9:00 PM	0	0	0	2	6	21	17	11	3	0	0	0	0	60	46.0	40.2
10:00 PM	0	0	0	0	2	13	18	11	4	0	0	0	0	48	48.0	42.2
11:00 PM	0	0	0	0	3	14	10	4	1	0	0	0	0	32	44.4	39.9
Total	3	4	4	28	189	1210	2071	870	135	14	0	1	0	4529	46.0	41.4
Percent	0.07%	0.09%	0.09%	0.62%	4.17%	26.72%	45.73%	19.21%	2.98%	0.31%	0.00%	0.02%	0.00%			

AM Peak	11:00 AM	10:00 AM	12:00 AM	7:00 AM	11:00 AM	8:00 AM	7:00 AM	7:00 AM	6:00 AM	6:00 AM				7:00 AM	
Volume	2	1	1	4	16	87	154	62	14	2	0	0	0	314	

PM Peak	4:00 PM	1:00 PM	2:00 PM	7:00 PM	2:00 PM	3:00 PM	4:00 PM	4:00 PM	5:00 PM	12:00 PM				7:00 PM	4:00 PM
Volume	1	1	1	5	17	120	223	87	14	2	0	1	0	451	

15th Percentile:	37.0 MPH	Average Speed:	41.4 MPH	Posted Speed Limit:	40 MPH
50th Percentile:	41.0 MPH	10 MPH Pace:	37 to 46 MPH	Number of Vehicles > 40 MPH:	2678
85th Percentile:	46.0 MPH	Number in Pace:	3538	Percent of Vehicles > 40 MPH:	59.1%
95th Percentile:	48.0 MPH	Percent in Pace:	78.1%		

Leominster-Shirley Road
east of Reservoir Road
City, State: Lunenburg, MA
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PDI File #: 217953 ATR-A

Count Date
Thursday, May 27, 2021

Speed (60-minute)

EB

Start Time:	1 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70+	Total	85th %Re	Ave Speed
12:00 AM	0	0	0	0	1	4	1	1	1	0	0	0	0	8	45.9	40.4
1:00 AM	0	0	0	0	0	1	2	0	0	0	0	0	0	3	41.7	40.0
2:00 AM	0	0	0	0	1	3	1	1	1	0	0	0	0	7	45.8	40.0
3:00 AM	0	0	0	0	1	2	2	3	0	0	0	0	0	8	45.0	40.8
4:00 AM	0	0	0	0	1	5	9	2	0	0	0	0	0	17	44.0	40.4
5:00 AM	0	0	0	0	3	5	24	15	3	1	0	0	0	51	47.5	43.2
6:00 AM	0	0	0	0	3	21	71	52	5	0	0	0	0	152	46.0	43.0
7:00 AM	0	0	0	0	9	22	77	74	19	1	0	0	0	202	48.0	43.6
8:00 AM	0	0	0	2	4	34	90	53	12	2	0	0	0	197	47.0	42.7
9:00 AM	1	0	0	0	3	23	51	16	6	0	0	0	0	100	46.0	41.5
10:00 AM	0	0	1	1	7	22	52	26	1	1	0	0	0	111	45.0	41.4
11:00 AM	0	0	2	0	4	18	50	25	3	0	0	0	0	102	46.0	41.9
12:00 PM	0	2	2	1	7	31	54	27	5	0	0	0	0	129	45.8	40.9
1:00 PM	0	0	1	1	6	39	49	32	6	0	0	0	0	134	46.0	41.4
2:00 PM	0	0	0	0	7	45	60	28	3	0	0	0	0	143	45.0	41.2
3:00 PM	0	0	0	2	2	41	57	41	8	2	0	0	0	153	47.0	42.4
4:00 PM	1	0	0	3	4	31	67	35	7	1	1	1	0	151	47.0	42.4
5:00 PM	0	0	1	0	3	26	64	52	8	1	1	0	0	156	47.0	43.2
6:00 PM	0	0	0	0	0	21	60	39	8	1	0	0	0	129	47.0	43.4
7:00 PM	0	0	0	0	4	25	47	31	3	0	0	1	0	111	47.0	42.5
8:00 PM	0	0	2	0	5	33	48	20	2	1	0	0	0	111	46.0	41.0
9:00 PM	0	0	0	0	7	6	22	9	6	2	1	0	0	53	50.0	43.1
10:00 PM	0	0	0	0	3	8	15	5	1	2	0	0	0	34	45.1	42.0
11:00 PM	0	0	0	0	0	0	6	5	2	1	0	0	0	14	50.1	45.8
Total	2	2	9	10	85	466	979	592	110	16	3	2	0	2276	47.0	42.3
Percent	0.09%	0.09%	0.40%	0.44%	3.73%	20.47%	43.01%	26.01%	4.83%	0.70%	0.13%	0.09%	0.00%			

AM Peak	9:00 AM	11:00 AM	8:00 AM	7:00 AM	8:00 AM	8:00 AM	7:00 AM	7:00 AM	8:00 AM						7:00 AM
Volume	1	0	2	2	9	34	90	74	19	2	0	0	0		202

PM Peak	4:00 PM	12:00 PM	12:00 PM	4:00 PM	12:00 PM	2:00 PM	4:00 PM	5:00 PM	3:00 PM	3:00 PM	4:00 PM	4:00 PM			5:00 PM
Volume	1	2	2	3	7	45	67	52	8	2	1	1	0		156

15th Percentile:	38.0 MPH	Average Speed:	42.3 MPH	Posted Speed Limit:	40 MPH
50th Percentile:	42.0 MPH	10 MPH Pace:	38 to 47 MPH	Number of Vehicles > 40 MPH:	1527
85th Percentile:	47.0 MPH	Number in Pace:	1719	Percent of Vehicles > 40 MPH:	67.1%
95th Percentile:	50.0 MPH	Percent in Pace:	75.5%		

Leominster-Shirley Road
east of Reservoir Road
City, State: Lunenburg, MA
Client: GPI / H. Monticup
Site Code: NEX-2021120.00



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequests@pdilk.com

PDI File #: 217953 ATR-A

Count Date
Thursday, May 27, 2021

Speed (60-minute)

WB

Start Time:	1 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70+	Total	85th %ile	Ave Speed	
12:00 AM	0	0	0	0	1	6	0	1	1	0	0	0	0	0	9	45.2	38.9
1:00 AM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2	45.7	42.5
2:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	45.0	45.0
3:00 AM	0	0	0	1	0	1	3	3	0	0	0	0	0	0	8	46.0	41.4
4:00 AM	0	0	0	0	1	4	1	0	0	0	0	0	0	0	6	39.3	37.2
5:00 AM	0	0	0	1	0	11	13	4	1	0	0	0	0	0	30	44.7	40.2
6:00 AM	0	0	0	0	3	6	37	17	2	2	0	0	0	0	67	46.0	43.1
7:00 AM	0	0	0	2	5	34	62	17	2	0	1	0	0	0	123	45.0	41.0
8:00 AM	0	0	0	0	3	49	76	17	2	0	0	0	0	0	147	44.0	40.8
9:00 AM	0	0	0	3	11	40	49	13	2	0	0	0	0	0	118	44.0	39.8
10:00 AM	0	0	0	1	6	62	49	17	1	0	0	0	0	0	136	44.0	39.9
11:00 AM	0	0	0	0	8	40	60	10	2	0	0	0	0	0	120	44.0	40.4
12:00 PM	0	0	0	3	10	53	59	7	3	1	0	0	0	0	136	43.0	39.6
1:00 PM	0	0	0	1	6	43	65	8	0	0	0	0	0	0	123	43.0	39.9
2:00 PM	0	0	0	0	11	72	92	26	1	0	0	0	0	0	202	44.0	40.5
3:00 PM	0	0	0	4	18	77	135	43	2	3	0	0	0	0	282	45.0	40.7
4:00 PM	0	0	0	0	16	135	165	37	1	2	0	0	0	0	356	44.0	40.4
5:00 PM	0	0	0	1	11	73	121	26	2	0	1	0	0	0	235	44.0	40.8
6:00 PM	0	0	0	0	2	43	63	19	5	1	0	1	0	0	134	45.0	41.4
7:00 PM	0	0	0	1	16	48	49	17	1	0	0	1	0	0	133	44.0	39.7
8:00 PM	1	0	1	2	10	31	29	6	0	0	0	0	0	0	80	42.2	38.2
9:00 PM	0	0	0	0	3	15	12	10	1	0	0	0	0	0	41	47.0	41.0
10:00 PM	0	0	0	1	2	10	5	5	1	0	1	1	0	0	26	49.0	41.8
11:00 PM	0	0	0	0	0	7	10	8	1	0	0	0	0	0	26	48.0	42.8
Total	1	0	1	21	143	861	1155	313	31	9	3	3	0	2541	44.0	40.5	
Percent	0.04%	0.00%	0.04%	0.83%	5.63%	33.88%	45.45%	12.32%	1.22%	0.35%	0.12%	0.12%	0.00%				

AM Peak Volume	9:00 AM	9:00 AM	10:00 AM	8:00 AM	6:00 AM	6:00 AM	6:00 AM	7:00 AM							8:00 AM
0	3	11	62	76	17	2	2	1	0	0	0	0	0	147	

PM Peak Volume	8:00 PM	8:00 PM	3:00 PM	3:00 PM	4:00 PM	4:00 PM	3:00 PM	6:00 PM	3:00 PM	5:00 PM	6:00 PM				4:00 PM
1	0	1	4	18	135	165	43	5	3	1	1	0	0	0	356

15th Percentile:	37.0 MPH	Average Speed:	40.5 MPH	Posted Speed Limit:	40 MPH
50th Percentile:	40.0 MPH	10 MPH Pace:	36 to 45 MPH	Number of Vehicles > 40 MPH:	1253
85th Percentile:	44.0 MPH	Number in Pace:	2058	Percent of Vehicles > 40 MPH:	49.3%
95th Percentile:	47.0 MPH	Percent in Pace:	81.0%		



Leominster-Shirley Road
east of Reservoir Road
City, State: Lunenburg, MA
Client: GPI/H. Monticup
Site Code: NEX-2021120.00

157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequests@pdilc.com

PDI File #: 217953 ATR-A

Count Date
Thursday, May 27, 2021

Speed (60-minute)

Combined EB and WB

Start Time:	1 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70+	Total	85th %ile	Ave Speed
12:00 AM	0	0	0	0	2	10	1	2	2	0	0	0	0	17	46.6	39.6
1:00 AM	0	0	0	0	0	2	2	1	0	0	0	0	0	5	44.0	41.0
2:00 AM	0	0	0	0	1	3	1	2	1	0	0	0	0	8	45.0	40.6
3:00 AM	0	0	0	1	1	3	5	6	0	0	0	0	0	16	45.8	41.1
4:00 AM	0	0	0	0	2	9	10	2	0	0	0	0	0	23	43.7	39.6
5:00 AM	0	0	0	1	3	16	37	19	4	1	0	0	0	81	46.0	42.0
6:00 AM	0	0	0	0	6	27	108	69	7	2	0	0	0	219	46.0	43.0
7:00 AM	0	0	0	2	14	56	139	91	21	1	1	0	0	325	47.0	42.6
8:00 AM	0	0	0	2	7	83	166	70	14	2	0	0	0	344	46.0	41.9
9:00 AM	1	0	0	3	14	63	100	29	8	0	0	0	0	218	45.0	40.6
10:00 AM	0	0	1	2	13	84	101	43	2	1	0	0	0	247	45.0	40.6
11:00 AM	0	0	2	0	12	58	110	35	5	0	0	0	0	222	45.0	41.1
12:00 PM	0	2	2	4	17	84	113	34	8	1	0	0	0	265	45.0	40.2
1:00 PM	0	0	1	2	12	82	114	40	6	0	0	0	0	257	45.0	40.7
2:00 PM	0	0	0	0	18	117	152	54	4	0	0	0	0	345	45.0	40.8
3:00 PM	0	0	0	6	20	118	192	84	10	5	0	0	0	435	45.0	41.3
4:00 PM	1	0	0	3	20	166	232	72	8	3	1	1	0	507	45.0	41.0
5:00 PM	0	0	1	1	14	99	185	78	10	1	2	0	0	391	46.0	41.7
6:00 PM	0	0	0	0	2	64	123	58	13	2	0	1	0	263	47.0	42.4
7:00 PM	0	0	0	1	20	73	96	48	4	0	0	2	0	244	46.0	41.0
8:00 PM	1	0	3	2	15	64	77	26	2	1	0	0	0	191	44.5	39.8
9:00 PM	0	0	0	0	10	21	34	19	7	2	1	0	0	94	48.0	42.2
10:00 PM	0	0	0	1	5	18	20	10	2	2	1	1	0	60	48.2	41.9
11:00 PM	0	0	0	0	0	7	16	13	3	1	0	0	0	40	48.0	43.8
Total	3	2	10	31	228	1327	2134	905	141	25	6	5	0	4817	46.0	41.3
Percent	0.06%	0.04%	0.21%	0.64%	4.73%	27.55%	44.30%	18.79%	2.93%	0.52%	0.12%	0.10%	0.00%			

AM Peak	9:00 AM	11:00 AM	9:00 AM	7:00 AM	10:00 AM	8:00 AM	7:00 AM	7:00 AM	6:00 AM	7:00 AM				8:00 AM		
Volume	1	0	2	3	14	84	166	91	21	2	1	0	0	344		

PM Peak	4:00 PM	12:00 PM	8:00 PM	3:00 PM	3:00 PM	4:00 PM	4:00 PM	3:00 PM	6:00 PM	3:00 PM	5:00 PM	7:00 PM		4:00 PM		
Volume	1	2	3	6	20	166	232	84	13	5	2	2	0	507		

15th Percentile:	37.0 MPH	Average Speed:	41.3 MPH	Posted Speed Limit:	40 MPH
50th Percentile:	41.0 MPH	10 MPH Pace:	37 to 46 MPH	Number of Vehicles > 40 MPH:	2780
85th Percentile:	46.0 MPH	Number in Pace:	3711	Percent of Vehicles > 40 MPH:	57.7%
95th Percentile:	49.0 MPH	Percent in Pace:	77.0%		

PDF File #: 217953 A
 Location: N: Reservoir Road NE: Reservoir Road
 Location: E: Leominster Shirley Road W: Leominster Shirley Road
 City, State: Lunenburg, MA
 Client: GPI / H. Monticup
 Site Code: NEX-2021120.00
 Count Date: Thursday, May 27, 2021
 Start Time: 7:00 AM
 End Time: 9:00 AM



157 Washington Street, Suite 2
 Hudson, MA 01749
 508-875-0100 datarequests@pdilc.com

Class:

Cars and Heavy Vehicles (Combined)

	Reservoir Road					Reservoir Road					Leominster Shirley Road					Leominster Shirley Road						
	from North					from Northeast					from East					from West						
	Right	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Hard Left	U-Turn	Total	Hard Right	Right	Thru	U-Turn	Total	Thru	Bear Left	Left	U-Turn	Total	Total	
7:00 AM	16	0	2	0	18	0	0	0	0	0	1	0	20	0	21	48	0	10	0	58	97	
7:15 AM	19	0	10	0	29	0	0	0	0	0	0	0	31	0	31	45	0	2	0	47	107	
7:30 AM	29	0	8	0	37	0	0	0	0	0	0	0	27	0	27	48	0	10	0	58	122	
7:45 AM	22	0	2	0	24	0	0	0	0	0	3	0	50	0	53	43	0	10	0	53	130	
Total	86	0	22	0	108	0	0	0	0	0	4	0	128	0	132	184	0	32	0	216	456	
8:00 AM	20	0	3	0	23	0	0	0	0	0	2	0	31	0	33	49	0	9	0	58	114	
8:15 AM	27	0	4	0	31	0	0	0	0	0	1	0	28	0	29	67	0	9	0	76	136	
8:30 AM	19	0	1	0	20	0	0	0	0	0	1	0	45	0	46	45	0	13	0	58	124	
8:45 AM	30	0	2	0	32	0	0	0	0	0	1	0	44	0	45	35	0	10	0	45	122	
Total	96	0	10	0	106	0	0	0	0	0	5	0	148	0	153	196	0	41	0	237	496	
Grand Total	182	0	32	0	214	0	0	0	0	0	9	0	276	0	285	380	0	73	0	453	952	
Approach %	85.0	0.0	15.0	0.0		0.0	0.0	0.0	0.0		3.2	0.0	96.8	0.0		83.9	0.0	16.1	0.0			
Total %	19.1	0.0	3.4	0.0	22.5	0.0	0.0	0.0	0.0		0.9	0.0	29.0	0.0	29.9	39.9	0.0	7.7	0.0	47.6		
Exiting Leg Total					73						41					380					458	952
Cars	173	0	30	0	203	0	0	0	0		7	0	261	0	268	351	0	58	0	409	880	
% Cars	95.1	0.0	93.8	0.0	94.9	0.0	0.0	0.0	0.0		77.8	0.0	94.6	0.0	94.0	92.4	0.0	79.5	0.0	90.3	92.4	
Exiting Leg Total					58						37					351					434	880
Heavy Vehicles	9	0	2	0	11	0	0	0	0		2	0	15	0	17	29	0	15	0	44	72	
% Heavy Vehicles	4.9	0.0	6.3	0.0	5.1	0.0	0.0	0.0	0.0		22.2	0.0	5.4	0.0	6.0	7.6	0.0	20.5	0.0	9.7	7.6	
Exiting Leg Total					15						4					29					24	72

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:45 AM	Reservoir Road					Reservoir Road					Leominster Shirley Road					Leominster Shirley Road						
	from North					from Northeast					from East					from West						
	Right	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Hard Left	U-Turn	Total	Hard Right	Right	Thru	U-Turn	Total	Thru	Bear Left	Left	U-Turn	Total	Total	
7:45 AM	22	0	2	0	24	0	0	0	0	0	3	0	50	0	53	43	0	10	0	53	130	
8:00 AM	20	0	3	0	23	0	0	0	0	0	2	0	31	0	33	49	0	9	0	58	114	
8:15 AM	27	0	4	0	31	0	0	0	0	0	1	0	28	0	29	67	0	9	0	76	136	
8:30 AM	19	0	1	0	20	0	0	0	0	0	1	0	45	0	46	45	0	13	0	58	124	
Total Volume	88	0	10	0	98	0	0	0	0	0	7	0	154	0	161	204	0	41	0	245	504	
% Approach Total	89.8	0.0	10.2	0.0		0.0	0.0	0.0	0.0		4.3	0.0	95.7	0.0		83.3	0.0	16.7	0.0			
PHF	0.815	0.000	0.625	0.000	0.790	0.000	0.000	0.000	0.000		0.583	0.000	0.770	0.000	0.759	0.761	0.000	0.788	0.000	0.806	0.926	
Cars	86	0	9	0	95	0	0	0	0		6	0	147	0	153	188	0	37	0	225	473	
Cars %	97.7	0.0	90.0	0.0	96.9	0.0	0.0	0.0	0.0		85.7	0.0	95.5	0.0	95.0	92.2	0.0	90.2	0.0	91.8	93.8	
Heavy Vehicles	2	0	1	0	3	0	0	0	0		1	0	7	0	8	16	0	4	0	20	31	
Heavy Vehicles %	2.3	0.0	10.0	0.0	3.1	0.0	0.0	0.0	0.0		14.3	0.0	4.5	0.0	5.0	7.8	0.0	9.8	0.0	8.2	6.2	
Cars Enter Leg	86	0	9	0	95	0	0	0	0		6	0	147	0	153	188	0	37	0	225	473	
Heavy Enter Leg	2	0	1	0	3	0	0	0	0		1	0	7	0	8	16	0	4	0	20	31	
Total Entering Leg	88	0	10	0	98	0	0	0	0		7	0	154	0	161	204	0	41	0	245	504	
Cars Exiting Leg					37						15					188					233	473
Heavy Exiting Leg					4						2					16					9	31
Total Exiting Leg					41						17					204					242	504

PDI File #: 217953 A

Location: N: Reservoir Road NE: Reservoir Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI/ H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 7:00 AM

End Time: 9:00 AM

Class:



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequests@pdilc.com

Cars

	Reservoir Road					Reservoir Road					Leominster Shirley Road					Leominster Shirley Road					
	from North				Total	from Northeast				Total	from East				from West						
	Right	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Hard Left	U-Turn	Total	Hard Right	Right	Thru	U-Turn	Total	Thru	Bear Left	Left	U-Turn	Total	Total
7:00 AM	14	0	2	0	16	0	0	0	0	0	1	0	18	0	19	46	0	6	0	52	87
7:15 AM	18	0	10	0	28	0	0	0	0	0	0	0	29	0	29	42	0	1	0	43	100
7:30 AM	27	0	8	0	35	0	0	0	0	0	0	0	26	0	26	47	0	7	0	54	115
7:45 AM	22	0	1	0	23	0	0	0	0	0	2	0	49	0	51	40	0	10	0	50	124
Total	81	0	21	0	102	0	0	0	0	0	3	0	122	0	125	175	0	24	0	199	426
8:00 AM	18	0	3	0	21	0	0	0	0	0	2	0	28	0	30	44	0	8	0	52	103
8:15 AM	27	0	4	0	31	0	0	0	0	0	1	0	27	0	28	64	0	9	0	73	132
8:30 AM	19	0	1	0	20	0	0	0	0	0	1	0	43	0	44	40	0	10	0	50	114
8:45 AM	28	0	1	0	29	0	0	0	0	0	0	0	41	0	41	28	0	7	0	35	105
Total	92	0	9	0	101	0	0	0	0	0	4	0	139	0	143	176	0	34	0	210	454
Grand Total	173	0	30	0	203	0	0	0	0	0	7	0	261	0	268	351	0	58	0	409	880
Approach %	85.2	0.0	14.8	0.0		0.0	0.0	0.0	0.0		2.6	0.0	97.4	0.0		85.8	0.0	14.2	0.0		
Total %	19.7	0.0	3.4	0.0	23.1	0.0	0.0	0.0	0.0		0.8	0.0	29.7	0.0	30.5	39.9	0.0	6.6	0.0	46.5	
Exiting Leg Total					58										351						434
																					880

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:30 AM	Reservoir Road					Reservoir Road					Leominster Shirley Road					Leominster Shirley Road					
	from North				Total	from Northeast				Total	from East				from West						
	Right	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Hard Left	U-Turn	Total	Hard Right	Right	Thru	U-Turn	Total	Thru	Bear Left	Left	U-Turn	Total	Total
7:30 AM	27	0	8	0	35	0	0	0	0	0	0	0	26	0	26	47	0	7	0	54	115
7:45 AM	22	0	1	0	23	0	0	0	0	0	2	0	49	0	51	40	0	10	0	50	124
8:00 AM	18	0	3	0	21	0	0	0	0	0	2	0	28	0	30	44	0	8	0	52	103
8:15 AM	27	0	4	0	31	0	0	0	0	0	1	0	27	0	28	64	0	9	0	73	132
Total Volume	94	0	16	0	110	0	0	0	0	0	5	0	130	0	135	195	0	34	0	229	474
% Approach Total	85.5	0.0	14.5	0.0		0.0	0.0	0.0	0.0		3.7	0.0	96.3	0.0		85.2	0.0	14.8	0.0		
PHF	0.870	0.000	0.500	0.000	0.786	0.000	0.000	0.000	0.000		0.625	0.000	0.663	0.000	0.662	0.762	0.000	0.850	0.000	0.784	0.898
Entering Leg	94	0	16	0	110	0	0	0	0	0	5	0	130	0	135	195	0	34	0	229	474
Exiting Leg					34					21				195						224	474
Total					144					21				330						453	948

PDI File #: 217953 A

Location: N: Reservoir Road NE: Reservoir Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI/ H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 7:00 AM

End Time: 9:00 AM

Class:



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequests@pdilc.com

Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)

	Reservoir Road					Reservoir Road					Leominster Shirley Road					Leominster Shirley Road						
	from North					from Northeast					from East					from West						
	Right	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Hard Left	U-Turn	Total	Hard Right	Right	Thru	U-Turn	Total	Thru	Bear Left	Left	U-Turn	Total	Total	
7:00 AM	2	0	0	0	2	0	0	0	0	0	0	0	0	2	0	2	0	4	0	6	10	
7:15 AM	1	0	0	0	1	0	0	0	0	0	0	0	0	2	0	3	0	1	0	4	7	
7:30 AM	2	0	0	0	2	0	0	0	0	0	0	0	0	1	0	1	0	3	0	4	7	
7:45 AM	0	0	1	0	1	0	0	0	0	0	1	0	1	0	2	3	0	0	0	3	6	
Total	5	0	1	0	6	0	0	0	0	0	1	0	6	0	7	9	0	8	0	17	30	
8:00 AM	2	0	0	0	2	0	0	0	0	0	0	0	0	3	0	3	5	0	1	0	6	11
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3	0	0	0	3	4
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	5	0	3	0	8	10
8:45 AM	2	0	1	0	3	0	0	0	0	0	1	0	3	0	4	7	0	3	0	10	17	
Total	4	0	1	0	5	0	0	0	0	0	1	0	9	0	10	20	0	7	0	27	42	
Grand Total	9	0	2	0	11	0	0	0	0	0	2	0	15	0	17	29	0	15	0	44	72	
Approach %	81.8	0.0	18.2	0.0		0.0	0.0	0.0	0.0		11.8	0.0	88.2	0.0		65.9	0.0	34.1	0.0			
Total %	12.5	0.0	2.8	0.0	15.3	0.0	0.0	0.0	0.0		2.8	0.0	20.8	0.0	23.6	40.3	0.0	20.8	0.0	61.1		
Exiting Leg Total					15						4				29					24	72	
Buses	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	4	0	0	0	0	5	
% Buses	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	0.0	5.9	13.8	0.0	0.0	0.0	0.0	9.1	6.9
Exiting Leg Total					0						0				4						1	5
Single-Unit Trucks	8	0	2	0	10	0	0	0	0	0	2	0	7	0	9	21	0	14	0	35	54	
% Single-Unit	88.9	0.0	100.0	0.0	90.9	0.0	0.0	0.0	0.0	0.0	100.0	0.0	46.7	0.0	52.9	72.4	0.0	93.3	0.0	79.5	75.0	
Exiting Leg Total					14						4				21						15	54
Articulated Trucks	1	0	0	0	1	0	0	0	0	0	0	0	7	0	7	4	0	1	0	5	13	
% Articulated	11.1	0.0	0.0	0.0	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.7	0.0	41.2	13.8	0.0	6.7	0.0	11.4	18.1	
Exiting Leg Total					1						0				4						8	13

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Reservoir Road					Reservoir Road					Leominster Shirley Road					Leominster Shirley Road						
	from North					from Northeast					from East					from West						
	Right	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Hard Left	U-Turn	Total	Hard Right	Right	Thru	U-Turn	Total	Thru	Bear Left	Left	U-Turn	Total	Total	
8:00 AM	2	0	0	0	2	0	0	0	0	0	0	0	0	3	0	3	5	0	1	0	6	11
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3	0	0	0	3	4
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	5	0	3	0	8	10
8:45 AM	2	0	1	0	3	0	0	0	0	0	1	0	3	0	4	7	0	3	0	10	17	
Total Volume	4	0	1	0	5	0	0	0	0	0	1	0	9	0	10	20	0	7	0	27	42	
% Approach Total	80.0	0.0	20.0	0.0		0.0	0.0	0.0	0.0		10.0	0.0	90.0	0.0		74.1	0.0	25.9	0.0			
PHF	0.500	0.000	0.250	0.000	0.417	0.000	0.000	0.000	0.000		0.250	0.000	0.750	0.000	0.625	0.714	0.000	0.583	0.000	0.675	0.618	
Buses	0	0	0	0	0	0	0	0	0		0	0	1	0	1	2	0	0	0	0	3	
Buses %	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	11.1	0.0	10.0	10.0	0.0	0.0	0.0	0.0	7.1	
Single-Unit Trucks	4	0	1	0	5	0	0	0	0		1	0	5	0	6	16	0	7	0	23	34	
Single-Unit %	100.0	0.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0		100.0	0.0	55.6	0.0	60.0	80.0	0.0	100.0	0.0	85.2	81.0	
Articulated Trucks	0	0	0	0	0	0	0	0	0		0	0	3	0	3	2	0	0	0	0	5	
Articulated %	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	33.3	0.0	30.0	10.0	0.0	0.0	0.0	0.0	11.9	
Buses	0	0	0	0	0	0	0	0	0		0	0	1	0	1	2	0	0	0	0	3	
Single-Unit Trucks	4	0	1	0	5	0	0	0	0		1	0	5	0	6	16	0	7	0	23	34	
Articulated Trucks	0	0	0	0	0	0	0	0	0		0	0	3	0	3	2	0	0	0	0	5	
Total Entering Leg	4	0	1	0	5	0	0	0	0		1	0	9	0	10	20	0	7	0	27	42	
Buses					0										2					1	3	
Single-Unit Trucks					7										2					9	34	
Articulated Trucks					0										0					3	5	
Total Exiting Leg					7										20					13	42	

PDI File #: 217953 A

Location: N: Reservoir Road NE: Reservoir Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI/ H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 7:00 AM

End Time: 9:00 AM

Class:



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequest@pdilc.com

Buses

	Reservoir Road					Reservoir Road					Leominster Shirley Road					Leominster Shirley Road				
	from North					from Northeast					from East					from West				
	Right	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Hard Left	U-Turn	Total	Hard Right	Right	Thru	U-Turn	Total	Thru	Bear Left	Left	U-Turn	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
Total	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	0	0	0	2
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	4	0	0	0	4
Approach %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	100.0	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	0.0	0.0	0.0	20.0	0.0	20.0	80.0	0.0	0.0	0.0	80.0	0.0
Exiting Leg Total	0	0	0	0	0	0	0	0	0	0	0	0	4	0	1	5				

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:15 AM	Reservoir Road					Reservoir Road					Leominster Shirley Road					Leominster Shirley Road				
	from North					from Northeast					from East					from West				
	Right	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Hard Left	U-Turn	Total	Hard Right	Right	Thru	U-Turn	Total	Thru	Bear Left	Left	U-Turn	Total
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	0	0	0	3
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.375
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.250	0.000	0.000	0.000	0.250	0.375
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	2	3
Exiting Leg	0	0	0	0	0	0	0	0	0	0	0	0	2	1	3					
Total	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3					6

PDI File #: 217953 A

Location: N: Reservoir Road NE: Reservoir Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI/ H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 7:00 AM

End Time: 9:00 AM



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequests@pdilic.com

Class:

Single-Unit Trucks

	Reservoir Road					Reservoir Road					Leominster Shirley Road					Leominster Shirley Road					
	from North					from Northeast					from East					from West					
	Right	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Hard Left	U-Turn	Total	Hard Right	Right	Thru	U-Turn	Total	Thru	Bear Left	Left	U-Turn	Total	Total
7:00 AM	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	4	0	6	7
7:15 AM	1	0	0	0	1	0	0	0	0	0	0	0	0	2	0	2	0	1	0	3	6
7:30 AM	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	4
7:45 AM	0	0	1	0	1	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	3
Total	4	0	1	0	5	0	0	0	0	0	1	0	2	0	3	5	0	7	0	12	20
8:00 AM	2	0	0	0	2	0	0	0	0	0	0	0	2	0	2	4	0	1	0	5	9
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	2
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	5	0	3	0	8	10
8:45 AM	2	0	1	0	3	0	0	0	0	0	1	0	1	0	2	5	0	3	0	8	13
Total	4	0	1	0	5	0	0	0	0	0	1	0	5	0	6	16	0	7	0	23	34
Grand Total	8	0	2	0	10	0	0	0	0	0	2	0	7	0	9	21	0	14	0	35	54
Approach %	80.0	0.0	20.0	0.0		0.0	0.0	0.0	0.0		22.2	0.0	77.8	0.0		60.0	0.0	40.0	0.0		
Total %	14.8	0.0	3.7	0.0	18.5	0.0	0.0	0.0	0.0		3.7	0.0	13.0	0.0	16.7	38.9	0.0	25.9	0.0		64.8
Exiting Leg Total					14						4				21					15	54

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Reservoir Road					Reservoir Road					Leominster Shirley Road					Leominster Shirley Road					
	from North					from Northeast					from East					from West					
	Right	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Hard Left	U-Turn	Total	Hard Right	Right	Thru	U-Turn	Total	Thru	Bear Left	Left	U-Turn	Total	Total
8:00 AM	2	0	0	0	2	0	0	0	0	0	0	0	2	0	2	4	0	1	0	5	9
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	5	0	3	0	8	10
8:45 AM	2	0	1	0	3	0	0	0	0	0	1	0	1	0	2	5	0	3	0	8	13
Total Volume	4	0	1	0	5	0	0	0	0	0	1	0	5	0	6	16	0	7	0	23	34
% Approach Total	80.0	0.0	20.0	0.0		0.0	0.0	0.0	0.0		16.7	0.0	83.3	0.0		69.6	0.0	30.4	0.0		
PHF	0.500	0.000	0.250	0.000	0.417	0.000	0.000	0.000	0.000		0.250	0.000	0.625	0.000	0.750	0.800	0.000	0.583	0.000	0.719	0.654
Entering Leg	4	0	1	0	5	0	0	0	0	0	1	0	5	0	6	16	0	7	0	23	34
Exiting Leg					7					2					16				9	34	
Total					12					2					22				32	68	

PDI File #: 217953 A

Location: N: Reservoir Road NE: Reservoir Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI/ H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 7:00 AM

End Time: 9:00 AM

Class:



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequests@pdilc.com

Articulated Trucks

	Reservoir Road					Reservoir Road					Leominster Shirley Road					Leominster Shirley Road					
	from North					from Northeast					from East					from West					
	Right	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Hard Left	U-Turn	Total	Hard Right	Right	Thru	U-Turn	Total	Thru	Bear Left	Left	U-Turn	Total	Total
7:00 AM	1	0	0	0	1	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	3
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1	0	2	3
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
Total	1	0	0	0	1	0	0	0	0	0	0	0	4	0	4	2	0	1	0	3	8
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	2
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	2
Total	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	2	0	0	0	0	5
Grand Total	1	0	0	0	1	0	0	0	0	0	0	0	7	0	7	4	0	1	0	5	13
Approach %	100.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	100.0	0.0		80.0	0.0	20.0	0.0		
Total %	7.7	0.0	0.0	0.0	7.7	0.0	0.0	0.0	0.0		0.0	0.0	53.8	0.0	53.8	30.8	0.0	7.7	0.0	38.5	
Exiting Leg Total					1								4					8		13	

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Reservoir Road					Reservoir Road					Leominster Shirley Road					Leominster Shirley Road					
	from North					from Northeast					from East					from West					
	Right	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Hard Left	U-Turn	Total	Hard Right	Right	Thru	U-Turn	Total	Thru	Bear Left	Left	U-Turn	Total	Total
7:00 AM	1	0	0	0	1	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	3
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1	0	2	3
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
Total Volume	1	0	0	0	1	0	0	0	0	0	0	0	4	0	4	2	0	1	0	3	8
% Approach Total	100.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	100.0	0.0		66.7	0.0	33.3	0.0		
PHF	0.250	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000		0.000	0.000	0.500	0.000	0.500	0.500	0.000	0.250	0.000	0.375	0.667
Entering Leg	1	0	0	0	1	0	0	0	0	0	0	0	4	0	4	2	0	1	0	3	8
Exiting Leg					1					0			2		2					5	8
Total					2					0			6							8	16

PDI File #: 217953 A

Location: N: Reservoir Road NE: Reservoir Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI/ H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 7:00 AM

End Time: 9:00 AM



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequests@pdilc.com

Class:

Bicycles (on Roadway and Crosswalks)

	Reservoir Road							Reservoir Road							Leominster Shirley Road							Leominster Shirley Road						
	from North							from Northeast							from East							from West						
	Right	Left	Hard Left	U-Turn	CW-EB	CW-WB	Total	Hard Right	Bear Right	Hard Left	U-Turn	CW-SEB	CW-NWB	Total	Hard Right	Right	Thru	U-Turn	CW-SB	CW-NB	Total	Thru	Bear Left	Left	U-Turn	CW-NB	CW-SB	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0		
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0		
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Approach %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Exiting Leg Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Reservoir Road							Reservoir Road							Leominster Shirley Road							Leominster Shirley Road						
	from North							from Northeast							from East							from West						
	Right	Left	Hard Left	U-Turn	CW-EB	CW-WB	Total	Hard Right	Bear Right	Hard Left	U-Turn	CW-SEB	CW-NWB	Total	Hard Right	Right	Thru	U-Turn	CW-SB	CW-NB	Total	Thru	Bear Left	Left	U-Turn	CW-NB	CW-SB	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Exiting Leg	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0		

PDI File #: 217953 A

Location: N: Reservoir Road NE: Reservoir Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI / H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 7:00 AM

End Time: 9:00 AM

Class:



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequest@pdilc.com

Pedestrians

	Reservoir Road						Reservoir Road						Leominster Shirley Road						Leominster Shirley Road						
	from North						from Northeast						from East						from West						
	Right	Left	Hard Left	U-Turn	CW-EB	CW-NB	Right	Left	Hard Right	U-Turn	CW-SEB	CW-NWB	Right	Thru	U-Turn	CW-EB	CW-NB	Total	Thru	Bear Left	Left	U-Turn	CW-NB	CW-SB	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Approach %	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	
Exiting Leg Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Reservoir Road						Reservoir Road						Leominster Shirley Road						Leominster Shirley Road						
	from North						from Northeast						from East						from West						
	Right	Left	Hard Left	U-Turn	CW-EB	CW-NB	Right	Left	Hard Right	U-Turn	CW-SEB	CW-NWB	Right	Thru	U-Turn	CW-EB	CW-NB	Total	Thru	Bear Left	Left	U-Turn	CW-NB	CW-SB	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Exiting Leg	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	

PDI File #: 217953 A

Location: N: Reservoir Road NE: Reservoir Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI/ H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 4:00 PM

End Time: 6:00 PM



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequests@pdilic.com

Class:

Cars and Heavy Vehicles (Combined)

	Reservoir Road					Reservoir Road					Leominster Shirley Road					Leominster Shirley Road					
	from North					from Northeast					from East					from West					
	Right	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Hard Left	U-Turn	Total	Hard Right	Right	Thru	U-Turn	Total	Thru	Bear Left	Left	U-Turn	Total	Total
4:00 PM	18	0	3	0	21	0	0	0	0	0	6	0	95	0	101	25	0	32	0	57	179
4:15 PM	15	0	1	0	16	0	0	0	0	0	4	0	108	0	112	32	0	22	0	54	182
4:30 PM	19	0	1	0	20	0	0	0	0	0	2	0	69	0	71	39	0	26	0	65	156
4:45 PM	17	0	1	0	18	0	0	0	0	0	4	0	88	0	92	43	0	32	0	75	185
Total	69	0	6	0	75	0	0	0	0	0	16	0	360	0	376	139	0	112	0	251	702
5:00 PM	23	1	0	0	24	0	0	0	0	0	6	0	56	0	62	39	0	34	0	73	159
5:15 PM	23	0	0	0	23	0	0	0	0	0	4	0	65	0	69	45	0	28	0	73	165
5:30 PM	16	0	1	0	17	0	0	0	0	0	3	1	57	0	61	37	0	28	0	65	143
5:45 PM	19	1	4	0	24	0	0	0	0	0	4	0	47	0	51	32	0	19	0	51	126
Total	81	2	5	0	88	0	0	0	0	0	17	1	225	0	243	153	0	109	0	262	593
Grand Total	150	2	11	0	163	0	0	0	0	0	33	1	585	0	619	292	0	221	0	513	1295
Approach %	92.0	1.2	6.7	0.0		0.0	0.0	0.0	0.0		5.3	0.2	94.5	0.0		56.9	0.0	43.1	0.0		
Total %	11.6	0.2	0.8	0.0	12.6	0.0	0.0	0.0	0.0		2.5	0.1	45.2	0.0	47.8	22.5	0.0	17.1	0.0	39.6	
Exiting Leg Total					222					44					294					735	1295
Cars	144	2	11	0	157	0	0	0	0		32	1	571	0	604	283	0	219	0	502	1263
% Cars	96.0	100.0	100.0	0.0	96.3	0.0	0.0	0.0	0.0		97.0	100.0	97.6	0.0	97.6	96.9	0.0	99.1	0.0	97.9	97.5
Exiting Leg Total					220					43					285					715	1263
Heavy Vehicles	6	0	0	0	6	0	0	0	0		1	0	14	0	15	9	0	2	0	11	32
% Heavy Vehicles	4.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0		3.0	0.0	2.4	0.0	2.4	3.1	0.0	0.9	0.0	2.1	2.5
Exiting Leg Total					2					1					9					20	32

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Reservoir Road					Reservoir Road					Leominster Shirley Road					Leominster Shirley Road						
	from North					from Northeast					from East					from West						
	Right	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Hard Left	U-Turn	Total	Hard Right	Right	Thru	U-Turn	Total	Thru	Bear Left	Left	U-Turn	Total	Total	
4:00 PM	18	0	3	0	21	0	0	0	0	0	6	0	95	0	101	25	0	32	0	57	179	
4:15 PM	15	0	1	0	16	0	0	0	0	0	4	0	108	0	112	32	0	22	0	54	182	
4:30 PM	19	0	1	0	20	0	0	0	0	0	2	0	69	0	71	39	0	26	0	65	156	
4:45 PM	17	0	1	0	18	0	0	0	0	0	4	0	88	0	92	43	0	32	0	75	185	
Total Volume	69	0	6	0	75	0	0	0	0	0	16	0	360	0	376	139	0	112	0	251	702	
% Approach Total	92.0	0.0	8.0	0.0		0.0	0.0	0.0	0.0		4.3	0.0	95.7	0.0		55.4	0.0	44.6	0.0			
PHF	0.908	0.000	0.500	0.000	0.893	0.000	0.000	0.000	0.000		0.667	0.000	0.833	0.000	0.839	0.808	0.000	0.875	0.000	0.837	0.949	
Cars	65	0	6	0	71	0	0	0	0		15	0	350	0	365	134	0	112	0	246	682	
Cars %	94.2	0.0	100.0	0.0	94.7	0.0	0.0	0.0	0.0		93.8	0.0	97.2	0.0	97.1	96.4	0.0	100.0	0.0	98.0	97.2	
Heavy Vehicles	4	0	0	0	4	0	0	0	0		1	0	10	0	11	5	0	0	0	5	20	
Heavy Vehicles %	5.8	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0		6.3	0.0	2.8	0.0	2.9	3.6	0.0	0.0	0.0	2.0	2.8	
Cars Enter Leg	65	0	6	0	71	0	0	0	0		15	0	350	0	365	134	0	112	0	246	682	
Heavy Enter Leg	4	0	0	0	4	0	0	0	0		1	0	10	0	11	5	0	0	0	5	20	
Total Entering Leg	69	0	6	0	75	0	0	0	0		16	0	360	0	376	139	0	112	0	251	702	
Cars Exiting Leg					112						21					134					415	682
Heavy Exiting Leg					0						1					5					14	20
Total Exiting Leg					112						22					139					429	702

PDI File #: 217953 A

Location: N: Reservoir Road NE: Reservoir Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI/ H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 4:00 PM

End Time: 6:00 PM



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequests@pdilc.com

Class:

Cars

	Reservoir Road					Reservoir Road					Leominster Shirley Road					Leominster Shirley Road					
	from North					from Northeast					from East					from West					
	Right	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Hard Left	U-Turn	Total	Hard Right	Right	Thru	U-Turn	Total	Thru	Bear Left	Left	U-Turn	Total	Total
4:00 PM	15	0	3	0	18	0	0	0	0	0	5	0	92	0	97	23	0	32	0	55	170
4:15 PM	15	0	1	0	16	0	0	0	0	0	4	0	105	0	109	31	0	22	0	53	178
4:30 PM	18	0	1	0	19	0	0	0	0	0	2	0	66	0	68	37	0	26	0	63	150
4:45 PM	17	0	1	0	18	0	0	0	0	0	4	0	87	0	91	43	0	32	0	75	184
Total	65	0	6	0	71	0	0	0	0	0	15	0	350	0	365	134	0	112	0	246	682
5:00 PM	22	1	0	0	23	0	0	0	0	0	6	0	55	0	61	38	0	34	0	72	156
5:15 PM	23	0	0	0	23	0	0	0	0	0	4	0	64	0	68	45	0	27	0	72	163
5:30 PM	15	0	1	0	16	0	0	0	0	0	3	1	56	0	60	34	0	28	0	62	138
5:45 PM	19	1	4	0	24	0	0	0	0	0	4	0	46	0	50	32	0	18	0	50	124
Total	79	2	5	0	86	0	0	0	0	0	17	1	221	0	239	149	0	107	0	256	581
Grand Total	144	2	11	0	157	0	0	0	0	0	32	1	571	0	604	283	0	219	0	502	1263
Approach %	91.7	1.3	7.0	0.0		0.0	0.0	0.0	0.0	0.0	5.3	0.2	94.5	0.0		56.4	0.0	43.6	0.0		
Total %	11.4	0.2	0.9	0.0	12.4	0.0	0.0	0.0	0.0	0.0	2.5	0.1	45.2	0.0	47.8	22.4	0.0	17.3	0.0	39.7	
Exiting Leg Total					220					43					285					715	1263

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Reservoir Road					Reservoir Road					Leominster Shirley Road					Leominster Shirley Road					
	from North					from Northeast					from East					from West					
	Right	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Hard Left	U-Turn	Total	Hard Right	Right	Thru	U-Turn	Total	Thru	Bear Left	Left	U-Turn	Total	Total
4:00 PM	15	0	3	0	18	0	0	0	0	0	5	0	92	0	97	23	0	32	0	55	170
4:15 PM	15	0	1	0	16	0	0	0	0	0	4	0	105	0	109	31	0	22	0	53	178
4:30 PM	18	0	1	0	19	0	0	0	0	0	2	0	66	0	68	37	0	26	0	63	150
4:45 PM	17	0	1	0	18	0	0	0	0	0	4	0	87	0	91	43	0	32	0	75	184
Total Volume	65	0	6	0	71	0	0	0	0	0	15	0	350	0	365	134	0	112	0	246	682
% Approach Total	91.5	0.0	8.5	0.0		0.0	0.0	0.0	0.0	0.0	4.1	0.0	95.9	0.0		54.5	0.0	45.5	0.0		
PHF	0.903	0.000	0.500	0.000	0.934	0.000	0.000	0.000	0.000	0.000	0.750	0.000	0.833	0.000	0.837	0.779	0.000	0.875	0.000	0.820	0.927
Entering Leg	65	0	6	0	71	0	0	0	0	0	15	0	350	0	365	134	0	112	0	246	682
Exiting Leg					112					21					134					415	682
Total					183					21					499					661	1364

PDI File #: 217953 A

Location: N: Reservoir Road NE: Reservoir Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI/ H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 4:00 PM

End Time: 6:00 PM



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequests@pdilc.com

Class:

Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)

	Reservoir Road					Reservoir Road					Leominster Shirley Road					Leominster Shirley Road					
	from North					from Northeast					from East					from West					
	Right	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Hard Left	U-Turn	Total	Hard Right	Right	Thru	U-Turn	Total	Thru	Bear Left	Left	U-Turn	Total	Total
4:00 PM	3	0	0	0	3	0	0	0	0	0	1	0	3	0	4	2	0	0	0	2	9
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	1	0	0	0	1	4
4:30 PM	1	0	0	0	1	0	0	0	0	0	0	0	3	0	3	2	0	0	0	2	6
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
Total	4	0	0	0	4	0	0	0	0	0	1	0	10	0	11	5	0	0	0	5	20
5:00 PM	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	3
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	2
5:30 PM	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	3	0	0	0	3	5
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	2
Total	2	0	0	0	2	0	0	0	0	0	0	0	4	0	4	4	0	2	0	6	12
Grand Total	6	0	0	0	6	0	0	0	0	0	1	0	14	0	15	9	0	2	0	11	32
Approach %	100.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		6.7	0.0	93.3	0.0		81.8	0.0	18.2	0.0		
Total %	18.8	0.0	0.0	0.0	18.8	0.0	0.0	0.0	0.0		3.1	0.0	43.8	0.0	46.9	28.1	0.0	6.3	0.0	34.4	
Exiting Leg Total					2						1				9					20	32
Buses	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
% Buses	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0	6.7	0.0	0.0	0.0	0.0	0.0	3.1
Exiting Leg Total					0						0				0					1	1
Single-Unit Trucks	5	0	0	0	5	0	0	0	0	0	1	0	11	0	12	7	0	2	0	9	26
% Single-Unit	83.3	0.0	0.0	0.0	83.3	0.0	0.0	0.0	0.0	0.0	100.0	0.0	78.6	0.0	80.0	77.8	0.0	100.0	0.0	81.8	81.3
Exiting Leg Total					2						1				7					16	26
Articulated Trucks	1	0	0	0	1	0	0	0	0	0	0	0	2	0	2	2	0	0	0	2	5
% Articulated	16.7	0.0	0.0	0.0	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	0.0	13.3	22.2	0.0	0.0	0.0	18.2	15.6
Exiting Leg Total					0						0				2					3	5

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Reservoir Road					Reservoir Road					Leominster Shirley Road					Leominster Shirley Road						
	from North					from Northeast					from East					from West						
	Right	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Hard Left	U-Turn	Total	Hard Right	Right	Thru	U-Turn	Total	Thru	Bear Left	Left	U-Turn	Total	Total	
4:00 PM	3	0	0	0	3	0	0	0	0	0	1	0	3	0	4	2	0	0	0	2	9	
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	1	0	0	0	1	4	
4:30 PM	1	0	0	0	1	0	0	0	0	0	0	0	3	0	3	2	0	0	0	2	6	
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	
Total Volume	4	0	0	0	4	0	0	0	0	0	1	0	10	0	11	5	0	0	0	5	20	
% Approach Total	100.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		9.1	0.0	90.9	0.0		100.0	0.0	0.0	0.0			
PHF	0.333	0.000	0.000	0.000	0.333	0.000	0.000	0.000	0.000		0.250	0.000	0.833	0.000	0.688	0.625	0.000	0.000	0.000	0.625	0.556	
Buses	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	
Buses %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	9.1	0.0	0.0	0.0	0.0	0.0	5.0	
Single-Unit Trucks	4	0	0	0	4	0	0	0	0	0	1	0	8	0	9	4	0	0	0	4	17	
Single-Unit %	100.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	80.0	0.0	81.8	80.0	0.0	0.0	0.0	80.0	85.0	
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	2	
Articulated %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	9.1	20.0	0.0	0.0	0.0	20.0	10.0	
Buses	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	
Single-Unit Trucks	4	0	0	0	4	0	0	0	0	0	1	0	8	0	9	4	0	0	0	4	17	
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	2	
Total Entering Leg	4	0	0	0	4	0	0	0	0	0	1	0	10	0	11	5	0	0	0	5	20	
Buses																						
Single-Unit Trucks																						
Articulated Trucks																						
Total Exiting Leg													1		5						14	20

PDI File #: 217953 A

Location: N: Reservoir Road NE: Reservoir Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI/ H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 4:00 PM

End Time: 6:00 PM



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequest@pdilc.com

Class:

Buses

	Reservoir Road					Reservoir Road					Leominster Shirley Road					Leominster Shirley Road				
	from North					from Northeast					from East					from West				
	Right	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Hard Left	U-Turn	Total	Hard Right	Right	Thru	U-Turn	Total	Thru	Bear Left	Left	U-Turn	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	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	1	0	0	0	0	0	1
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	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	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Approach %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	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	0.0	0.0	0.0	0.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0
Exiting Leg Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Reservoir Road					Reservoir Road					Leominster Shirley Road					Leominster Shirley Road				
	from North					from Northeast					from East					from West				
	Right	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Hard Left	U-Turn	Total	Hard Right	Right	Thru	U-Turn	Total	Thru	Bear Left	Left	U-Turn	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.250	
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Exiting Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	2

PDI File #: 217953 A
 Location: N: Reservoir Road NE: Reservoir Road
 Location: E: Leominster Shirley Road W: Leominster Shirley Road
 City, State: Lunenburg, MA
 Client: GPI/ H. Monticup
 Site Code: NEX-2021120.00
 Count Date: Thursday, May 27, 2021
 Start Time: 4:00 PM
 End Time: 6:00 PM



Class:

Single-Unit Trucks

Reservoir Road					Reservoir Road					Leominster Shirley Road					Leominster Shirley Road						
from North					from Northeast					from East					from West						
Right	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Hard Left	U-Turn	Total	Hard Right	Right	Thru	U-Turn	Total	Thru	Bear Left	Left	U-Turn	Total	Total	
4:00 PM	3	0	0	0	3	0	0	0	0	1	0	2	0	3	1	0	0	0	1	7	
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	2	1	0	0	0	1	3	
4:30 PM	1	0	0	0	1	0	0	0	0	0	0	3	0	3	2	0	0	0	2	6	
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	1	
Total	4	0	0	0	4	0	0	0	0	1	0	8	0	9	4	0	0	0	4	17	
5:00 PM	1	0	0	0	1	0	0	0	0	0	0	1	0	1	1	0	0	0	1	3	
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	2	
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	2	
Total	1	0	0	0	1	0	0	0	0	0	0	3	0	3	3	0	2	0	5	9	
Grand Total	5	0	0	0	5	0	0	0	0	1	1	0	11	0	12	7	0	2	0	9	26
Approach %	100.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		8.3	0.0	91.7	0.0		77.8	0.0	22.2	0.0		
Total %	19.2	0.0	0.0	0.0	19.2	0.0	0.0	0.0	0.0		3.8	0.0	42.3	0.0	46.2	26.9	0.0	7.7	0.0	34.6	
Exiting Leg Total					2					1				7					16	26	

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Reservoir Road					Reservoir Road					Leominster Shirley Road					Leominster Shirley Road					
	from North					from Northeast					from East					from West					
	Right	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Hard Left	U-Turn	Total	Hard Right	Right	Thru	U-Turn	Total	Thru	Bear Left	Left	U-Turn	Total	Total
4:00 PM	3	0	0	0	3	0	0	0	0	1	0	2	0	3	1	0	0	0	1	7	
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	2	1	0	0	0	1	3	
4:30 PM	1	0	0	0	1	0	0	0	0	0	0	3	0	3	2	0	0	0	2	6	
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	
Total Volume	4	0	0	0	4	0	0	0	0	0	1	0	8	0	9	4	0	0	0	4	17
% Approach Total	100.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		11.1	0.0	88.9	0.0		100.0	0.0	0.0	0.0		
PHF	0.333	0.000	0.000	0.000	0.333	0.000	0.000	0.000	0.000		0.250	0.000	0.667	0.000	0.750	0.500	0.000	0.000	0.000	0.607	
Entering Leg	4	0	0	0	4	0	0	0	0		1	0	8	0	9	4	0	0	0	4	17
Exiting Leg					0						1				4					12	17
Total					4					1				13					16	34	

PDI File #: 217953 A

Location: N: Reservoir Road NE: Reservoir Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI/ H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 4:00 PM

End Time: 6:00 PM

Class:



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequests@pdilc.com

Articulated Trucks

	Reservoir Road					Reservoir Road					Leominster Shirley Road					Leominster Shirley Road					
	from North					from Northeast					from East					from West					
	Right	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Hard Left	U-Turn	Total	Hard Right	Right	Thru	U-Turn	Total	Thru	Bear Left	Left	U-Turn	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	2
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	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	1	0	1	1	0	0	0	1	2
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	3
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	3
Grand Total	1	0	0	0	1	0	0	0	0	0	0	0	2	0	2	2	0	0	0	2	5
Approach %	100.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	100.0	0.0		100.0	0.0	0.0	0.0		
Total %	20.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0		0.0	0.0	40.0	0.0	40.0	40.0	0.0	0.0	0.0	40.0	
Exiting Leg Total					0					0			2					3		5	

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:45 PM	Reservoir Road					Reservoir Road					Leominster Shirley Road					Leominster Shirley Road					
	from North					from Northeast					from East					from West					
	Right	Left	Hard Left	U-Turn	Total	Hard Right	Bear Right	Hard Left	U-Turn	Total	Hard Right	Right	Thru	U-Turn	Total	Thru	Bear Left	Left	U-Turn	Total	Total
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1
Total Volume	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1
% Approach Total	100.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	100.0	0.0		100.0	0.0	0.0	0.0		
PHF	0.250	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000		0.000	0.000	0.250	0.000	0.250	0.250	0.000	0.000	0.000	0.250	0.250
Entering Leg	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	3
Exiting Leg					0					0			1		1		1		2		3
Total					1					0			2					3		6	

PDI File #: 217953 A

Location: N: Reservoir Road NE: Reservoir Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI / H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 4:00 PM

End Time: 6:00 PM

Class:



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequest@pdilc.com

Bicycles (on Roadway and Crosswalks)

	Reservoir Road						Reservoir Road						Leominster Shirley Road						Leominster Shirley Road												
	from North			from Northeast			from East			from West			from North			from Northeast			from East			from West									
	Right	Left	Hard Left	U-Turn	CW-NB	CW-WB	Total	Hard Right	Bear Right	Hard Left	U-Turn	CW-SEB	CW-NWB	Total	Hard Right	Right	Thru	U-Turn	CW-SB	CW-NB	Total	Thru	Bear Left	Left	U-Turn	CW-NB	CW-SB	Total			
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1		
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	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	1	0	0	0	0	0	1	2	0	0	0	0	2		
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	2		
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	4	0	0	0	0	5		
Approach %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	100.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	20.0	80.0	0.0	0.0	0.0	0.0	80.0		
Exiting Leg Total							0										4						1								5

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Reservoir Road						Reservoir Road						Leominster Shirley Road						Leominster Shirley Road											
	from North			from Northeast			from East			from West			from North			from Northeast			from East			from West								
	Right	Left	Hard Left	U-Turn	CW-NB	CW-WB	Total	Hard Right	Bear Right	Hard Left	U-Turn	CW-SEB	CW-NWB	Total	Hard Right	Right	Thru	U-Turn	CW-SB	CW-NB	Total	Thru	Bear Left	Left	U-Turn	CW-NB	CW-SB	Total		
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	2	
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.750		
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	3	
Exiting Leg							0					0		0			2						1							3
Total							0					0		0			3						3							6

PDI File #: 217953 A

Location: N: Reservoir Road NE: Reservoir Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI / H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 4:00 PM

End Time: 6:00 PM



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequests@pdilc.com

Pedestrians

Class:	Reservoir Road						Reservoir Road						Leominster Shirley Road						Leominster Shirley Road										
	from North						from Northeast						from East						from West										
	Right	Left	Hard Left	U-Turn	CW-NB	CW-WB	Total	Hard Right	Bear Right	Hard Left	U-Turn	CW-SEB	CW-NWB	Total	Hard Right	Right	Thru	U-Turn	CW-SB	CW-NB	Total	Thru	Bear Left	Left	U-Turn	CW-NB	CW-SB	Total	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Approach %	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	
Exiting Leg Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Reservoir Road						Reservoir Road						Leominster Shirley Road						Leominster Shirley Road										
	from North						from Northeast						from East						from West										
	Right	Left	Hard Left	U-Turn	CW-NB	CW-WB	Total	Hard Right	Bear Right	Hard Left	U-Turn	CW-SEB	CW-NWB	Total	Hard Right	Right	Thru	U-Turn	CW-SB	CW-NB	Total	Thru	Bear Left	Left	U-Turn	CW-NB	CW-SB	Total	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Exiting Leg	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	

PDI File #: 217953 B

Location: N: Old Shirley Road S: Fort Pond Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI/ H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 7:00 AM

End Time: 9:00 AM



157 Washington Street, Suite 2
Ludlow, MA 01054
508-875-0100 datarequests@pdilc.com

Class:

Cars and Heavy Vehicles (Combined)

	Old Shirley Road					Leominster Shirley Road					Fort Pond Road					Leominster Shirley Road					Total
	from North					from East					from South					from West					Total
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	22	18	0	40	24	0	18	0	42	68	41	0	2	111	193
7:15 AM	1	0	0	0	1	0	34	27	0	61	13	1	25	0	39	50	43	0	1	94	195
7:30 AM	4	0	0	0	4	0	43	28	0	71	24	0	21	0	45	84	45	3	2	134	254
7:45 AM	0	0	0	0	0	0	51	22	0	73	23	0	22	0	45	53	39	0	1	93	211
Total	5	0	0	0	5	0	150	95	0	245	84	1	86	0	171	255	168	3	6	432	853
8:00 AM	1	0	0	0	1	0	41	19	0	60	21	0	18	0	39	51	48	1	1	101	201
8:15 AM	0	0	0	0	0	0	41	21	0	62	44	0	32	0	76	48	48	0	2	98	236
8:30 AM	1	1	0	0	2	1	51	14	0	66	28	0	26	0	54	46	35	1	0	82	204
8:45 AM	0	0	0	0	0	0	51	33	0	84	22	0	22	0	44	44	29	0	0	73	201
Total	2	1	0	0	3	1	184	87	0	272	115	0	98	0	213	189	160	2	3	354	842
Grand Total	7	1	0	0	8	1	334	182	0	517	199	1	184	0	384	444	328	5	9	786	1695
Approach %	87.5	12.5	0.0	0.0		0.2	64.6	35.2	0.0		51.8	0.3	47.9	0.0		56.5	41.7	0.6	1.1		
Total %	0.4	0.1	0.0	0.0	0.5	0.1	19.7	10.7	0.0	30.5	11.7	0.1	10.9	0.0	22.7	26.2	19.4	0.3	0.5	46.4	
Exiting Leg Total					7					527					627					534	1695
Cars	5	0	0	0	5	0	299	136	0	435	149	1	165	0	315	421	295	4	8	728	1483
% Cars	71.4	0.0	0.0	0.0	62.5	0.0	89.5	74.7	0.0	84.1	74.9	100.0	89.7	0.0	82.0	94.8	89.9	80.0	88.9	92.6	87.5
Exiting Leg Total					5					444					557					477	1483
Heavy Vehicles	2	1	0	0	3	1	35	46	0	82	50	0	19	0	69	23	33	1	1	58	212
% Heavy Vehicles	28.6	100.0	0.0	0.0	37.5	100.0	10.5	25.3	0.0	15.9	25.1	0.0	10.3	0.0	18.0	5.2	10.1	20.0	11.1	7.4	12.5
Exiting Leg Total					2					83					70					57	212

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:30 AM	Old Shirley Road					Leominster Shirley Road					Fort Pond Road					Leominster Shirley Road					Total
	from North					from East					from South					from West					Total
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:30 AM	4	0	0	0	4	0	43	28	0	71	24	0	21	0	45	84	45	3	2	134	254
7:45 AM	0	0	0	0	0	0	51	22	0	73	23	0	22	0	45	53	39	0	1	93	211
8:00 AM	1	0	0	0	1	0	41	19	0	60	21	0	18	0	39	51	48	1	1	101	201
8:15 AM	0	0	0	0	0	0	41	21	0	62	44	0	32	0	76	48	48	0	2	98	236
Total Volume	5	0	0	0	5	0	176	90	0	266	112	0	93	0	205	236	180	4	6	426	902
% Approach Total	100.0	0.0	0.0	0.0		0.0	66.2	33.8	0.0		54.6	0.0	45.4	0.0		55.4	42.3	0.9	1.4		
PHF	0.313	0.000	0.000	0.000	0.313	0.000	0.863	0.804	0.000	0.911	0.636	0.000	0.727	0.000	0.674	0.702	0.938	0.333	0.750	0.795	0.888
Cars	4	0	0	0	4	0	158	71	0	229	89	0	85	0	174	226	164	3	5	398	805
Cars %	80.0	0.0	0.0	0.0	80.0	0.0	89.8	78.9	0.0	86.1	79.5	0.0	91.4	0.0	84.9	95.8	91.1	75.0	83.3	93.4	89.2
Heavy Vehicles	1	0	0	0	1	0	18	19	0	37	23	0	8	0	31	10	16	1	1	28	97
Heavy Vehicles %	20.0	0.0	0.0	0.0	20.0	0.0	10.2	21.1	0.0	13.9	20.5	0.0	8.6	0.0	15.1	4.2	8.9	25.0	16.7	6.6	10.8
Cars Enter Leg	4	0	0	0	4	0	158	71	0	229	89	0	85	0	174	226	164	3	5	398	805
Heavy Enter Leg	1	0	0	0	1	0	18	19	0	37	23	0	8	0	31	10	16	1	1	28	97
Total Entering Leg	5	0	0	0	5	0	176	90	0	266	112	0	93	0	205	236	180	4	6	426	902
Cars Exiting Leg					3					253					297					252	805
Heavy Exiting Leg					1					39					29					28	97
Total Exiting Leg					4					292					326					280	902

PDI File #: 217953 B

Location: N: Old Shirley Road S: Fort Pond Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI/ H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 7:00 AM

End Time: 9:00 AM



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequests@pdilc.com

Class:

Cars

	Old Shirley Road					Leominster Shirley Road					Fort Pond Road					Leominster Shirley Road					Total
	from North					from East					from South					from West					Total
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	20	10	0	30	16	0	16	0	32	65	38	0	2	105	167
7:15 AM	1	0	0	0	1	0	29	20	0	49	8	1	25	0	34	48	39	0	1	88	172
7:30 AM	4	0	0	0	4	0	37	21	0	58	18	0	19	0	37	81	44	3	2	130	229
7:45 AM	0	0	0	0	0	0	50	17	0	67	20	0	20	0	40	50	36	0	1	87	194
Total	5	0	0	0	5	0	136	68	0	204	62	1	80	0	143	244	157	3	6	410	762
8:00 AM	0	0	0	0	0	0	36	14	0	50	15	0	15	0	30	50	42	0	1	93	173
8:15 AM	0	0	0	0	0	0	35	19	0	54	36	0	31	0	67	45	42	0	1	88	209
8:30 AM	0	0	0	0	0	0	47	12	0	59	22	0	23	0	45	43	29	1	0	73	177
8:45 AM	0	0	0	0	0	0	45	23	0	68	14	0	16	0	30	39	25	0	0	64	162
Total	0	0	0	0	0	0	163	68	0	231	87	0	85	0	172	177	138	1	2	318	721
Grand Total	5	0	0	0	5	0	299	136	0	435	149	1	165	0	315	421	295	4	8	728	1483
Approach %	100.0	0.0	0.0	0.0		0.0	68.7	31.3	0.0		47.3	0.3	52.4	0.0		57.8	40.5	0.5	1.1		
Total %	0.3	0.0	0.0	0.0	0.3	0.0	20.2	9.2	0.0	29.3	10.0	0.1	11.1	0.0	21.2	28.4	19.9	0.3	0.5	49.1	
Exiting Leg Total					5					444					557					477	1483

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:30 AM	Old Shirley Road					Leominster Shirley Road					Fort Pond Road					Leominster Shirley Road					Total	
	from North					from East					from South					from West						
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total		
7:30 AM	4	0	0	0	4	0	37	21	0	58	18	0	19	0	37	81	44	3	2	130	229	
7:45 AM	0	0	0	0	0	0	50	17	0	67	20	0	20	0	40	50	36	0	1	87	194	
8:00 AM	0	0	0	0	0	0	36	14	0	50	15	0	15	0	30	50	42	0	1	93	173	
8:15 AM	0	0	0	0	0	0	35	19	0	54	36	0	31	0	67	45	42	0	1	88	209	
Total Volume	4	0	0	0	4	0	158	71	0	229	89	0	85	0	174	226	164	3	5	398	805	
% Approach Total	100.0	0.0	0.0	0.0		0.0	69.0	31.0	0.0		51.1	0.0	48.9	0.0		56.8	41.2	0.8	1.3			
PHF	0.250	0.000	0.000	0.000	0.250	0.000	0.790	0.845	0.000	0.854	0.618	0.000	0.685	0.000	0.649	0.698	0.932	0.250	0.625	0.765	0.879	
Entering Leg	4	0	0	0	4	0	158	71	0	229	89	0	85	0	174	226	164	3	5	398	805	
Exiting Leg					3					253					297					252	805	
Total					7					482					471					650	1610	

PDI File #: 217953 B

Location: N: Old Shirley Road S: Fort Pond Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI/ H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 7:00 AM

End Time: 9:00 AM



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequests@pdilc.com

Class:

Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)

	Old Shirley Road					Leominster Shirley Road					Fort Pond Road					Leominster Shirley Road					
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	0	0	0	0	0	2	8	0	10	8	0	2	0	10	3	3	0	0	6	26
7:15 AM	0	0	0	0	0	0	5	7	0	12	5	0	0	0	5	2	4	0	0	6	23
7:30 AM	0	0	0	0	0	0	6	7	0	13	6	0	2	0	8	3	1	0	0	4	25
7:45 AM	0	0	0	0	0	0	1	5	0	6	3	0	2	0	5	3	3	0	0	6	17
Total	0	0	0	0	0	0	14	27	0	41	22	0	6	0	28	11	11	0	0	22	91
8:00 AM	1	0	0	0	1	0	5	5	0	10	6	0	3	0	9	1	6	1	0	8	28
8:15 AM	0	0	0	0	0	0	6	2	0	8	8	0	1	0	9	3	6	0	1	10	27
8:30 AM	1	1	0	0	2	1	4	2	0	7	6	0	3	0	9	3	6	0	0	9	27
8:45 AM	0	0	0	0	0	0	6	10	0	16	8	0	6	0	14	5	4	0	0	9	39
Total	2	1	0	0	3	1	21	19	0	41	28	0	13	0	41	12	22	1	1	36	121
Grand Total	2	1	0	0	3	1	35	46	0	82	50	0	19	0	69	23	33	1	1	58	212
Approach %	66.7	33.3	0.0	0.0		1.2	42.7	56.1	0.0		72.5	0.0	27.5	0.0		39.7	56.9	1.7	1.7		
Total %	0.9	0.5	0.0	0.0	1.4	0.5	16.5	21.7	0.0	38.7	23.6	0.0	9.0	0.0	32.5	10.8	15.6	0.5	0.5	27.4	
Exiting Leg Total										83										57	212
Buses	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	3	0	1	4	6
% Buses	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	1.2	2.0	0.0	0.0	0.0	1.4	0.0	9.1	0.0	100.0	6.9	2.8
Exiting Leg Total										4										2	6
Single-Unit Trucks	1	1	0	0	2	1	25	37	0	63	40	0	12	0	52	18	28	1	0	47	164
% Single-Unit	50.0	100.0	0.0	0.0	66.7	100.0	71.4	80.4	0.0	76.8	80.0	0.0	63.2	0.0	75.4	78.3	84.8	100.0	0.0	81.0	77.4
Exiting Leg Total										68										38	164
Articulated Trucks	1	0	0	0	1	0	9	9	0	18	9	0	7	0	16	5	2	0	0	7	42
% Articulated	50.0	0.0	0.0	0.0	33.3	0.0	25.7	19.6	0.0	22.0	18.0	0.0	36.8	0.0	23.2	21.7	6.1	0.0	0.0	12.1	19.8
Exiting Leg Total										11										17	42

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Old Shirley Road					Leominster Shirley Road					Fort Pond Road					Leominster Shirley Road						
	from North					from East					from South					from West						
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total		
8:00 AM	1	0	0	0	1	0	5	5	0	10	6	0	3	0	9	1	6	1	0	8	28	
8:15 AM	0	0	0	0	0	0	6	2	0	8	8	0	1	0	9	3	6	0	1	10	27	
8:30 AM	1	1	0	0	2	1	4	2	0	7	6	0	3	0	9	3	6	0	0	9	27	
8:45 AM	0	0	0	0	0	0	6	10	0	16	8	0	6	0	14	5	4	0	0	9	39	
Total Volume	2	1	0	0	3	1	21	19	0	41	28	0	13	0	41	12	22	1	1	36	121	
% Approach Total	66.7	33.3	0.0	0.0		2.4	51.2	46.3	0.0		68.3	0.0	31.7	0.0		33.3	61.1	2.8	2.8			
PHF	0.500	0.250	0.000	0.000	0.375	0.250	0.875	0.475	0.000	0.641	0.875	0.000	0.542	0.000	0.732	0.600	0.917	0.250	0.250	0.900	0.776	
Buses	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	0	1	3	4	
Buses %	0.0	0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	9.1	0.0	100.0	8.3	3.3	
Single-Unit Trucks	1	1	0	0	2	1	16	16	0	33	24	0	10	0	34	9	18	1	0	28	97	
Single-Unit %	50.0	100.0	0.0	0.0	66.7	100.0	76.2	84.2	0.0	80.5	85.7	0.0	76.9	0.0	82.9	75.0	81.8	100.0	0.0	77.8	80.2	
Articulated Trucks	1	0	0	0	1	0	4	3	0	7	4	0	3	0	7	3	2	0	0	5	20	
Articulated %	50.0	0.0	0.0	0.0	33.3	0.0	19.0	15.8	0.0	17.1	14.3	0.0	23.1	0.0	17.1	25.0	9.1	0.0	0.0	13.9	16.5	
Buses	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	0	1	3	4	
Single-Unit Trucks	1	1	0	0	2	1	16	16	0	33	24	0	10	0	34	9	18	1	0	28	97	
Articulated Trucks	1	0	0	0	1	0	4	3	0	7	4	0	3	0	7	3	2	0	0	5	20	
Total Entering Leg	2	1	0	0	3	1	21	19	0	41	28	0	13	0	41	12	22	1	1	36	121	
Buses																				2	4	
Single-Unit Trucks																				27	97	
Articulated Trucks																				8	20	
Total Exiting Leg																				37	121	

PDI File #: 217953 B

Location: N: Old Shirley Road S: Fort Pond Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI/ H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 7:00 AM

End Time: 9:00 AM



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequests@pdilc.com

Class:

Buses

Old Shirley Road					Leominster Shirley Road					Fort Pond Road					Leominster Shirley Road					
from North					from East					from South					from West					
Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:45 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	2	
Total	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	2	
8:00 AM	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	
Total	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	2	0	1	
Grand Total	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	3	0	1	
Approach %	0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	75.0	0.0	25.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	16.7	0.0	0.0	16.7	16.7	0.0	0.0	0.0	16.7	0.0	50.0	0.0	16.7	
Exiting Leg Total										4					0		2		6	

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:30 AM	Old Shirley Road					Leominster Shirley Road					Fort Pond Road					Leominster Shirley Road					
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	1	
8:00 AM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	
Total Volume	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	1	0	1	2	
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	100.0	100.0	0.0	0.0	0.0	100.0	0.0	50.0	0.0	50.0	0.500	
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.250	0.250	0.000	0.000	0.000	0.250	0.000	0.250	0.000	0.250	0.500	
Entering Leg	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	1	0	1	2	
Exiting Leg							0			2				0			0		2	4	
Total						0				3					1					4	8

PDI File #: 217953 B

Location: N: Old Shirley Road S: Fort Pond Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI/ H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 7:00 AM

End Time: 9:00 AM



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequests@pdilic.com

Single-Unit Trucks

Class:	Old Shirley Road					Leominster Shirley Road					Fort Pond Road					Leominster Shirley Road					
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	0	0	0	0	0	0	6	0	6	8	0	0	0	8	2	3	0	0	5	19
7:15 AM	0	0	0	0	0	0	4	7	0	11	3	0	0	0	3	1	4	0	0	5	19
7:30 AM	0	0	0	0	0	0	4	6	0	10	4	0	0	0	4	3	1	0	0	4	18
7:45 AM	0	0	0	0	0	0	1	2	0	3	1	0	2	0	3	3	2	0	0	5	11
Total	0	0	0	0	0	0	9	21	0	30	16	0	2	0	18	9	10	0	0	19	67
8:00 AM	0	0	0	0	0	0	4	5	0	9	5	0	3	0	8	1	4	1	0	6	23
8:15 AM	0	0	0	0	0	0	5	1	0	6	7	0	0	0	7	3	6	0	0	9	22
8:30 AM	1	1	0	0	2	1	3	1	0	5	5	0	3	0	8	1	6	0	0	7	22
8:45 AM	0	0	0	0	0	0	4	9	0	13	7	0	4	0	11	4	2	0	0	6	30
Total	1	1	0	0	2	1	16	16	0	33	24	0	10	0	34	9	18	1	0	28	97
Grand Total	1	1	0	0	2	1	25	37	0	63	40	0	12	0	52	18	28	1	0	47	164
Approach %	50.0	50.0	0.0	0.0		1.6	39.7	58.7	0.0		76.9	0.0	23.1	0.0		38.3	59.6	2.1	0.0		
Total %	0.6	0.6	0.0	0.0	1.2	0.6	15.2	22.6	0.0	38.4	24.4	0.0	7.3	0.0	31.7	11.0	17.1	0.6	0.0	28.7	
Exiting Leg Total					2					68					56					38	164

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Old Shirley Road					Leominster Shirley Road					Fort Pond Road					Leominster Shirley Road					
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
8:00 AM	0	0	0	0	0	0	4	5	0	9	5	0	3	0	8	1	4	1	0	6	23
8:15 AM	0	0	0	0	0	0	5	1	0	6	7	0	0	0	7	3	6	0	0	9	22
8:30 AM	1	1	0	0	2	1	3	1	0	5	5	0	3	0	8	1	6	0	0	7	22
8:45 AM	0	0	0	0	0	0	4	9	0	13	7	0	4	0	11	4	2	0	0	6	30
Total Volume	1	1	0	0	2	1	16	16	0	33	24	0	10	0	34	9	18	1	0	28	97
% Approach Total	50.0	50.0	0.0	0.0		3.0	48.5	48.5	0.0		70.6	0.0	29.4	0.0		32.1	64.3	3.6	0.0		
PHF	0.250	0.250	0.000	0.000	0.250	0.250	0.800	0.444	0.000	0.635	0.857	0.000	0.625	0.000	0.773	0.563	0.750	0.250	0.000	0.778	0.808
Entering Leg	1	1	0	0	2	1	16	16	0	33	24	0	10	0	34	9	18	1	0	28	97
Exiting Leg					2					42					26					27	97
Total					4					75					60					55	194

PDI File #: 217953 B

Location: N: Old Shirley Road S: Fort Pond Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI/ H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 7:00 AM

End Time: 9:00 AM

Class:



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequests@pdilc.com

Articulated Trucks

	Old Shirley Road					Leominster Shirley Road					Fort Pond Road					Leominster Shirley Road					Total
	from North					from East					from South					from West					Total
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	2	2	0	4	0	0	2	0	2	1	0	0	0	1	7
7:15 AM	0	0	0	0	0	0	1	0	0	1	2	0	0	0	2	1	0	0	0	1	4
7:30 AM	0	0	0	0	0	0	2	1	0	3	2	0	2	0	4	0	0	0	0	0	7
7:45 AM	0	0	0	0	0	0	0	3	0	3	1	0	0	0	1	0	0	0	0	0	4
Total	0	0	0	0	0	0	5	6	0	11	5	0	4	0	9	2	0	0	0	2	22
8:00 AM	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	2	0	0	2	4
8:15 AM	0	0	0	0	0	0	1	1	0	2	1	0	1	0	2	0	0	0	0	0	4
8:30 AM	0	0	0	0	0	0	1	1	0	2	1	0	0	0	1	2	0	0	0	2	5
8:45 AM	0	0	0	0	0	0	2	1	0	3	1	0	2	0	3	1	0	0	0	1	7
Total	1	0	0	0	1	0	4	3	0	7	4	0	3	0	7	3	2	0	0	5	20
Grand Total	1	0	0	0	1	0	9	9	0	18	9	0	7	0	16	5	2	0	0	7	42
Approach %	100.0	0.0	0.0	0.0		0.0	50.0	50.0	0.0		56.3	0.0	43.8	0.0		71.4	28.6	0.0	0.0		
Total %	2.4	0.0	0.0	0.0	2.4	0.0	21.4	21.4	0.0	42.9	21.4	0.0	16.7	0.0	38.1	11.9	4.8	0.0	0.0	16.7	
Exiting Leg Total						0				11					14					17	42

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Old Shirley Road					Leominster Shirley Road					Fort Pond Road					Leominster Shirley Road					Total
	from North					from East					from South					from West					Total
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	2	2	0	4	0	0	2	0	2	1	0	0	0	1	7
7:15 AM	0	0	0	0	0	0	1	0	0	1	2	0	0	0	2	1	0	0	0	1	4
7:30 AM	0	0	0	0	0	0	2	1	0	3	2	0	2	0	4	0	0	0	0	0	7
7:45 AM	0	0	0	0	0	0	0	3	0	3	1	0	0	0	1	0	0	0	0	0	4
Total Volume	0	0	0	0	0	0	5	6	0	11	5	0	4	0	9	2	0	0	0	2	22
% Approach Total	0.0	0.0	0.0	0.0		0.0	45.5	54.5	0.0		55.6	0.0	44.4	0.0		100.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.625	0.500	0.000	0.688	0.625	0.000	0.500	0.000	0.563	0.500	0.000	0.000	0.500	0.786	
Entering Leg	0	0	0	0	0	0	5	6	0	11	5	0	4	0	9	2	0	0	0	2	22
Exiting Leg						0				5				8					9	22	
Total						0				16					17					11	44

PDI File #: 217953 B

Location: N: Old Shirley Road S: Fort Pond Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI/ H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 7:00 AM

End Time: 9:00 AM



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequests@pdilc.com

Class:

Bicycles (on Roadway and Crosswalks)

	Old Shirley Road						Leominster Shirley Road						Fort Pond Road						Leominster Shirley Road						
	from North						from East						from South						from West						
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Approach %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total						0						0						0						0	0

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Old Shirley Road						Leominster Shirley Road						Fort Pond Road						Leominster Shirley Road						
	from North						from East						from South						from West						
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Exiting Leg						0					0					0				0			0		0
Total						0					0					0				0			0		0

PDI File #: 217953 B

Location: N: Old Shirley Road S: Fort Pond Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI / H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 7:00 AM

End Time: 9:00 AM

Class:



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequests@pdilc.com

Pedestrians

	Old Shirley Road							Leominster Shirley Road							Fort Pond Road							Leominster Shirley Road						
	from North							from East							from South							from West						
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0		
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8:15 AM	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
Grand Total	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
Approach %	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total %	0	0	0	0	100	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Exiting Leg Total							1																				0	1

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:30 AM	Old Shirley Road							Leominster Shirley Road							Fort Pond Road							Leominster Shirley Road						
	from North							from East							from South							from West						
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8:15 AM	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Total Volume	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
% Approach Total	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1		
PHF	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250				
Entering Leg	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
Exiting Leg							1																				0	1
Total							2																				0	2

PDI File #: 217953 B

Location: N: Old Shirley Road S: Fort Pond Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI/ H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 4:00 PM

End Time: 6:00 PM



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequests@pdilc.com

Class:

Cars and Heavy Vehicles (Combined)

	Old Shirley Road					Leominster Shirley Road					Fort Pond Road					Leominster Shirley Road					
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	0	0	0	1	89	26	0	116	33	0	77	0	110	24	37	0	2	63	289
4:15 PM	0	0	0	0	0	0	94	27	0	121	30	0	85	0	115	36	26	0	0	62	298
4:30 PM	0	0	0	0	0	0	78	26	0	104	29	0	80	0	109	36	44	0	0	80	293
4:45 PM	0	0	0	0	0	0	90	21	0	111	34	0	82	0	116	31	49	0	0	80	307
Total	0	0	0	0	0	1	351	100	0	452	126	0	324	0	450	127	156	0	2	285	1187
5:00 PM	0	0	0	0	0	0	61	24	0	85	27	0	89	0	116	39	48	0	0	87	288
5:15 PM	2	0	0	0	2	0	69	23	0	92	30	0	75	0	105	32	45	0	0	77	276
5:30 PM	0	0	0	0	0	0	56	21	0	77	40	0	70	0	110	35	27	1	0	63	250
5:45 PM	0	0	0	0	0	0	57	20	0	77	21	0	59	1	81	29	33	0	1	63	221
Total	2	0	0	0	2	0	243	88	0	331	118	0	293	1	412	135	153	1	1	290	1035
Grand Total	2	0	0	0	2	1	594	188	0	783	244	0	617	1	862	262	309	1	3	575	2222
Approach %	100.0	0.0	0.0	0.0		0.1	75.9	24.0	0.0		28.3	0.0	71.6	0.1		45.6	53.7	0.2	0.5		
Total %	0.1	0.0	0.0	0.0	0.1	0.0	26.7	8.5	0.0	35.2	11.0	0.0	27.8	0.0	38.8	11.8	13.9	0.0	0.1	25.9	
Exiting Leg Total					2					553					451					1216	2222
Cars	2	0	0	0	2	1	579	182	0	762	233	0	594	1	828	250	302	1	2	555	2147
% Cars	100.0	0.0	0.0	0.0	100.0	100.0	97.5	96.8	0.0	97.3	95.5	0.0	96.3	100.0	96.1	95.4	97.7	100.0	66.7	96.5	96.6
Exiting Leg Total					2					535					433					1177	2147
Heavy Vehicles	0	0	0	0	0	0	15	6	0	21	11	0	23	0	34	12	7	0	1	20	75
% Heavy Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	2.5	3.2	0.0	2.7	4.5	0.0	3.7	0.0	3.9	4.6	2.3	0.0	33.3	3.5	3.4
Exiting Leg Total					0					18					18					39	75

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Old Shirley Road					Leominster Shirley Road					Fort Pond Road					Leominster Shirley Road					
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	0	0	0	1	89	26	0	116	33	0	77	0	110	24	37	0	2	63	289
4:15 PM	0	0	0	0	0	0	94	27	0	121	30	0	85	0	115	36	26	0	0	62	298
4:30 PM	0	0	0	0	0	0	78	26	0	104	29	0	80	0	109	36	44	0	0	80	293
4:45 PM	0	0	0	0	0	0	90	21	0	111	34	0	82	0	116	31	49	0	0	80	307
Total Volume	0	0	0	0	0	1	351	100	0	452	126	0	324	0	450	127	156	0	2	285	1187
% Approach Total	0.0	0.0	0.0	0.0		0.2	77.7	22.1	0.0		28.0	0.0	72.0	0.0		44.6	54.7	0.0	0.7		
PHF	0.000	0.000	0.000	0.000	0.000	0.250	0.934	0.926	0.000	0.934	0.926	0.000	0.953	0.000	0.970	0.882	0.796	0.000	0.250	0.891	0.967
Cars	0	0	0	0	0	1	338	99	0	438	119	0	309	0	428	119	152	0	1	272	1138
Cars %	0.0	0.0	0.0	0.0	0.0	100.0	96.3	99.0	0.0	96.9	94.4	0.0	95.4	0.0	95.1	93.7	97.4	0.0	50.0	95.4	95.9
Heavy Vehicles	0	0	0	0	0	0	13	1	0	14	7	0	15	0	22	8	4	0	1	13	49
Heavy Vehicles %	0.0	0.0	0.0	0.0	0.0	0.0	3.7	1.0	0.0	3.1	5.6	0.0	4.6	0.0	4.9	6.3	2.6	0.0	50.0	4.6	4.1
Cars Enter Leg	0	0	0	0	0	1	338	99	0	438	119	0	309	0	428	119	152	0	1	272	1138
Heavy Enter Leg	0	0	0	0	0	0	13	1	0	14	7	0	15	0	22	8	4	0	1	13	49
Total Entering Leg	0	0	0	0	0	1	351	100	0	452	126	0	324	0	450	127	156	0	2	285	1187
Cars Exiting Leg					1					271					218					648	1138
Heavy Exiting Leg					0					11					9					29	49
Total Exiting Leg					1					282					227					677	1187

PDI File #: 217953 B

Location: N: Old Shirley Road S: Fort Pond Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI/ H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 4:00 PM

End Time: 6:00 PM



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequest@pdilc.com

Class:

Cars

	Old Shirley Road					Leominster Shirley Road					Fort Pond Road					Leominster Shirley Road					
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	0	0	0	1	82	25	0	108	31	0	72	0	103	21	34	0	1	56	267
4:15 PM	0	0	0	0	0	0	90	27	0	117	29	0	80	0	109	33	26	0	0	59	285
4:30 PM	0	0	0	0	0	0	76	26	0	102	25	0	78	0	103	34	44	0	0	78	283
4:45 PM	0	0	0	0	0	0	90	21	0	111	34	0	79	0	113	31	48	0	0	79	303
Total	0	0	0	0	0	1	338	99	0	438	119	0	309	0	428	119	152	0	1	272	1138
5:00 PM	0	0	0	0	0	0	61	22	0	83	26	0	87	0	113	37	46	0	0	83	279
5:15 PM	2	0	0	0	2	0	69	22	0	91	30	0	73	0	103	30	45	0	0	75	271
5:30 PM	0	0	0	0	0	0	54	20	0	74	38	0	68	0	106	35	27	1	0	63	243
5:45 PM	0	0	0	0	0	0	57	19	0	76	20	0	57	1	78	29	32	0	1	62	216
Total	2	0	0	0	2	0	241	83	0	324	114	0	285	1	400	131	150	1	1	283	1009
Grand Total	2	0	0	0	2	1	579	182	0	762	233	0	594	1	828	250	302	1	2	555	2147
Approach %	100.0	0.0	0.0	0.0	0.0	0.1	76.0	23.9	0.0	28.1	0.0	71.7	0.1	45.0	54.4	0.2	0.4				
Total %	0.1	0.0	0.0	0.0	0.1	0.0	27.0	8.5	0.0	35.5	10.9	0.0	27.7	0.0	38.6	11.6	14.1	0.0	0.1	25.9	
Exiting Leg Total						2				535					433					1177	2147

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:15 PM	Old Shirley Road					Leominster Shirley Road					Fort Pond Road					Leominster Shirley Road					
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:15 PM	0	0	0	0	0	0	90	27	0	117	29	0	80	0	109	33	26	0	0	59	285
4:30 PM	0	0	0	0	0	0	76	26	0	102	25	0	78	0	103	34	44	0	0	78	283
4:45 PM	0	0	0	0	0	0	90	21	0	111	34	0	79	0	113	31	48	0	0	79	303
5:00 PM	0	0	0	0	0	0	61	22	0	83	26	0	87	0	113	37	46	0	0	83	279
Total Volume	0	0	0	0	0	0	317	96	0	413	114	0	324	0	438	135	164	0	0	299	1150
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	76.8	23.2	0.0	26.0	0.0	74.0	0.0	45.2	54.8	0.0	0.0				
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.881	0.889	0.000	0.882	0.838	0.000	0.931	0.000	0.969	0.912	0.854	0.000	0.901	0.949	
Entering Leg	0	0	0	0	0	0	317	96	0	413	114	0	324	0	438	135	164	0	0	299	1150
Exiting Leg										278					231					641	1150
Total										691					669					940	2300

PDI File #: 217953 B

Location: N: Old Shirley Road S: Fort Pond Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI/ H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 4:00 PM

End Time: 6:00 PM



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequests@pdilc.com

Class:

Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)

	Old Shirley Road					Leominster Shirley Road					Fort Pond Road					Leominster Shirley Road						
	from North					from East					from South					from West						
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total	
4:00 PM	0	0	0	0	0	0	7	1	0	8	2	0	5	0	7	3	3	0	1	7	22	
4:15 PM	0	0	0	0	0	0	4	0	0	4	1	0	5	0	6	3	0	0	0	3	13	
4:30 PM	0	0	0	0	0	0	2	0	0	2	4	0	2	0	6	2	0	0	0	2	10	
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	0	1	0	0	1	4	
Total	0	0	0	0	0	0	13	1	0	14	7	0	15	0	22	8	4	0	1	13	49	
5:00 PM	0	0	0	0	0	0	0	2	0	2	1	0	2	0	3	2	2	0	0	0	4	
5:15 PM	0	0	0	0	0	0	0	1	0	1	0	0	2	0	2	2	0	0	0	0	5	
5:30 PM	0	0	0	0	0	0	2	1	0	3	2	0	2	0	4	0	0	0	0	0	7	
5:45 PM	0	0	0	0	0	0	0	1	0	1	1	0	2	0	3	0	1	0	0	0	5	
Total	0	0	0	0	0	0	2	5	0	7	4	0	8	0	12	4	3	0	0	7	26	
Grand Total	0	0	0	0	0	0	15	6	0	21	11	0	23	0	34	12	7	0	1	20	75	
Approach %	0.0	0.0	0.0	0.0	0.0	0.0	71.4	28.6	0.0	32.4	0.0	67.6	0.0	60.0	35.0	0.0	5.0					
Total %	0.0	0.0	0.0	0.0	0.0	0.0	20.0	8.0	0.0	28.0	14.7	0.0	30.7	0.0	45.3	16.0	9.3	0.0	1.3	26.7		
Exiting Leg Total																					39	75
Buses	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	1	3	
% Buses	0.0	0.0	0.0	0.0	0.0	0.0	6.7	16.7	0.0	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	5.0	
Exiting Leg Total																					2	3
Single-Unit Trucks	0	0	0	0	0	0	12	2	0	14	9	0	17	0	26	10	4	0	0	0	14	54
% Single-Unit	0.0	0.0	0.0	0.0	0.0	0.0	80.0	33.3	0.0	66.7	81.8	0.0	73.9	0.0	76.5	83.3	57.1	0.0	0.0	70.0	72.0	
Exiting Leg Total																					29	54
Articulated Trucks	0	0	0	0	0	0	2	3	0	5	2	0	6	0	8	2	3	0	0	0	5	18
% Articulated	0.0	0.0	0.0	0.0	0.0	0.0	13.3	50.0	0.0	23.8	18.2	0.0	26.1	0.0	23.5	16.7	42.9	0.0	0.0	25.0	24.0	
Exiting Leg Total																					8	18

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Old Shirley Road					Leominster Shirley Road					Fort Pond Road					Leominster Shirley Road					Total	
	from North					from East					from South					from West						
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total		
4:00 PM	0	0	0	0	0	0	7	1	0	8	2	0	5	0	7	3	3	0	1	7	22	
4:15 PM	0	0	0	0	0	0	4	0	0	4	1	0	5	0	6	3	0	0	0	3	13	
4:30 PM	0	0	0	0	0	0	2	0	0	2	4	0	2	0	6	2	0	0	0	2	10	
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	0	1	0	0	1	4	
Total Volume	0	0	0	0	0	0	13	1	0	14	7	0	15	0	22	8	4	0	1	13	49	
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	92.9	7.1	0.0	31.8	0.0	68.2	0.0	61.5	30.8	0.0	7.7					
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.464	0.250	0.000	0.438	0.438	0.000	0.750	0.000	0.786	0.667	0.333	0.000	0.250	0.464	0.557	
Buses	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	1	3	
Buses %	0.0	0.0	0.0	0.0	0.0	0.0	7.7	100.0	0.0	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	7.7	
Single-Unit Trucks	0	0	0	0	0	0	10	0	0	10	5	0	13	0	18	7	2	0	0	0	9	
Single-Unit %	0.0	0.0	0.0	0.0	0.0	0.0	76.9	0.0	0.0	71.4	71.4	0.0	86.7	0.0	81.8	87.5	50.0	0.0	0.0	69.2	75.5	
Articulated Trucks	0	0	0	0	0	0	2	0	0	2	2	0	2	0	4	1	2	0	0	0	3	
Articulated %	0.0	0.0	0.0	0.0	0.0	0.0	15.4	0.0	0.0	14.3	28.6	0.0	13.3	0.0	18.2	12.5	50.0	0.0	0.0	23.1	18.4	
Buses	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	1	3	
Single-Unit Trucks	0	0	0	0	0	0	10	0	0	10	5	0	13	0	18	7	2	0	0	0	9	
Articulated Trucks	0	0	0	0	0	0	2	0	0	2	2	0	2	0	4	1	2	0	0	0	3	
Total Entering Leg	0	0	0	0	0	0	13	1	0	14	7	0	15	0	22	8	4	0	1	13	49	
Buses																					2	
Single-Unit Trucks																					37	
Articulated Trucks																					4	
Total Exiting Leg																					29	
																					49	

PDI File #: 217953 B

Location: N: Old Shirley Road S: Fort Pond Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI/ H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 4:00 PM

End Time: 6:00 PM

Class:



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequests@pdilc.com

Buses

	Old Shirley Road					Leominster Shirley Road					Fort Pond Road					Leominster Shirley Road					Total
	from North					from East					from South					from West					Total
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	1	2
4:15 PM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	1	1	3
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	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	0	0	0	0	0
Grand Total	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	1	1	3
Approach %	0.0	0.0	0.0	0.0	0.0	0.0	50.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	33.3	33.3	0.0	66.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	33.3	
Exiting Leg Total						0				0					1				2	3	

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Old Shirley Road					Leominster Shirley Road					Fort Pond Road					Leominster Shirley Road					Total
	from North					from East					from South					from West					Total
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	1	2
4:15 PM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	1	1	3
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	50.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.250	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.250	0.375	
Entering Leg	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	1	1	3
Exiting Leg							0			0				1				2	2	3	
Total						0				2				1				1	3	6	

PDI File #: 217953 B

Location: N: Old Shirley Road S: Fort Pond Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI/ H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 4:00 PM

End Time: 6:00 PM

Class:



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequests@pdilc.com

Single-Unit Trucks

Old Shirley Road					Leominster Shirley Road					Fort Pond Road					Leominster Shirley Road									
from North					from East					from South					from West									
	Right	Thru	Left	U-Turn	Total		Right	Thru	Left	U-Turn	Total		Right	Thru	Left	U-Turn	Total		Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	0	0	0	0	0	6	0	0	0	6	2	0	4	0	6	3	2	0	0	0	5	17	
4:15 PM	0	0	0	0	0	0	2	0	0	0	2	0	0	5	0	5	3	0	0	0	0	3	10	
4:30 PM	0	0	0	0	0	0	2	0	0	0	2	3	0	2	0	5	1	0	0	0	0	1	8	
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	2	
Total	0	0	0	0	0	0	10	0	0	0	10	5	0	13	0	18	7	2	0	0	0	9	37	
5:00 PM	0	0	0	0	0	0	0	1	0	1	1	1	0	1	0	2	2	1	0	0	0	3	6	
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	1	2	
5:30 PM	0	0	0	0	0	0	2	0	0	0	2	2	0	2	0	4	0	0	0	0	0	0	6	
5:45 PM	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	1	0	1	0	0	0	1	3	
Total	0	0	0	0	0	0	2	2	0	0	4	4	0	4	0	8	3	2	0	0	0	5	17	
Grand Total	0	0	0	0	0	0	12	2	0	14	9	0	17	0	26	10	4	0	0	0	14	54		
Approach %	0.0	0.0	0.0	0.0		0.0	85.7	14.3	0.0		34.6	0.0	65.4	0.0		71.4	28.6	0.0	0.0					
Total %	0.0	0.0	0.0	0.0	0.0	0.0	22.2	3.7	0.0	25.9	16.7	0.0	31.5	0.0	48.1	18.5	7.4	0.0	0.0	25.9				
Exiting Leg Total						0				13					12								29	54

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Old Shirley Road					Leominster Shirley Road					Fort Pond Road					Leominster Shirley Road									
	from North					from East					from South					from West									
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total				
4:00 PM	0	0	0	0	0	0	6	0	0	6	2	0	4	0	6	3	2	0	0	5	17				
4:15 PM	0	0	0	0	0	0	2	0	0	2	0	0	5	0	5	3	0	0	0	3	10				
4:30 PM	0	0	0	0	0	0	2	0	0	2	3	0	2	0	5	1	0	0	0	1	8				
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	2				
Total Volume	0	0	0	0	0	0	10	0	0	10	5	0	13	0	18	7	2	0	0	0	9	37			
% Approach Total	0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0	0.0	27.8	0.0	72.2	0.0		77.8	22.2	0.0	0.0						
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.417	0.000	0.000	0.417	0.417	0.000	0.650	0.000	0.750	0.583	0.250	0.000	0.000	0.450	0.544				
Entering Leg	0	0	0	0	0	0	10	0	0	10	5	0	13	0	18	7	2	0	0	0	9	37			
Exiting Leg					0		7			7			7								23	37			
Total					0		17			17			25								32	74			

PDI File #: 217953 B

Location: N: Old Shirley Road S: Fort Pond Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI/ H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 4:00 PM

End Time: 6:00 PM

Class:



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequest@pdilc.com

Articulated Trucks

	Old Shirley Road					Leominster Shirley Road					Fort Pond Road					Leominster Shirley Road					
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	0	1	0	0	1	3
4:15 PM	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	2
4:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	2
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	1	2
Total	0	0	0	0	0	0	2	0	0	2	2	0	2	0	4	1	2	0	0	3	9
5:00 PM	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	0	1	0	0	1	3
5:15 PM	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	1	0	0	0	1	3
5:30 PM	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	2
Total	0	0	0	0	0	0	0	3	0	3	0	0	4	0	4	1	1	0	0	2	9
Grand Total	0	0	0	0	0	0	2	3	0	5	2	0	6	0	8	2	3	0	0	5	18
Approach %	0.0	0.0	0.0	0.0		0.0	40.0	60.0	0.0		25.0	0.0	75.0	0.0		40.0	60.0	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	11.1	16.7	0.0	27.8	11.1	0.0	33.3	0.0	44.4	11.1	16.7	0.0	0.0	27.8	
Exiting Leg Total						0				5					5				8	18	

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:30 PM	Old Shirley Road					Leominster Shirley Road					Fort Pond Road					Leominster Shirley Road					
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	2
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	1	2
5:00 PM	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	0	1	0	0	1	3
5:15 PM	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	1	0	0	0	1	3
Total Volume	0	0	0	0	0	0	0	2	0	2	1	0	3	0	4	2	2	0	0	4	10
% Approach Total	0.0	0.0	0.0	0.0		0.0	0.0	100.0	0.0		25.0	0.0	75.0	0.0		50.0	50.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.500	0.250	0.000	0.750	0.000	1.000	0.500	0.500	0.000	0.000	1.000	0.833
Entering Leg	0	0	0	0	0	0	0	2	0	2	1	0	3	0	4	2	2	0	0	4	10
Exiting Leg						0				3				4					3	10	
Total						0				5				8					7	20	

PDI File #: 217953 B

Location: N: Old Shirley Road S: Fort Pond Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI/ H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 4:00 PM

End Time: 6:00 PM

Class:



157 Washington Street, Suite 2
Hudson, MA 01749
508-875-0100 datarequests@pdilc.com

Bicycles (on Roadway and Crosswalks)

	Old Shirley Road						Leominster Shirley Road						Fort Pond Road						Leominster Shirley Road							
	from North						from East						from South						from West							
	Right	Thru	Left	U-Turn	CW-E8	CW-WB	Right	Thru	Left	U-Turn	CW-S8	CW-NB	Right	Thru	Left	U-Turn	CW-W8	CW-E8	Right	Thru	Left	U-Turn	CW-N8	CW-S8	Total	
4:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	
4:45 PM	0	0	0	0	0	0	0	0	0	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	1	0	0	0	1	0	0	0	1	0	2	1	1	0	0	5	
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	1	0	0	1	
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5:45 PM	0	0	0	0	0	0	0	0	0	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	2	0	0	0	0	0	2	0	1	0	0	3	
Grand Total	0	0	0	0	0	0	0	0	0	1	0	0	1	1	3	0	0	0	1	0	4	1	2	0	0	8
Approach %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	75.0	0.0	0.0	0.0	25.0	0.0	33.3	66.7	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	0.0	12.5	0.0	0.0	12.5	37.5	0.0	0.0	0.0	12.5	0.0	12.5	25.0	0.0	0.0	0.0	37.5	
Exiting Leg Total							0						5						3						0	8

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Old Shirley Road						Leominster Shirley Road						Fort Pond Road						Leominster Shirley Road							
	from North						from East						from South						from West							
	Right	Thru	Left	U-Turn	CW-E8	CW-WB	Right	Thru	Left	U-Turn	CW-S8	CW-NB	Right	Thru	Left	U-Turn	CW-W8	CW-E8	Right	Thru	Left	U-Turn	CW-N8	CW-S8	Total	
4:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	2	
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Volume	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	2	1	1	0	0	5	
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	50.0	0.0	50.0	0.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.250	0.000	0.250	0.000	0.250	0.500	0.250	0.250	0.000	0.000	0.500			
Entering Leg	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	2	1	1	0	0	5	
Exiting Leg														2						3						0
Total														3						5						2

PDI File #: 217953 B

Location: N: Old Shirley Road S: Fort Pond Road

Location: E: Leominster Shirley Road W: Leominster Shirley Road

City, State: Lunenburg, MA

Client: GPI/ H. Monticup

Site Code: NEX-2021120.00

Count Date: Thursday, May 27, 2021

Start Time: 4:00 PM

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157 Washington Street, Suite 2
Ludlow, MA 01049
508-875-0100 datarequests@pdilc.com

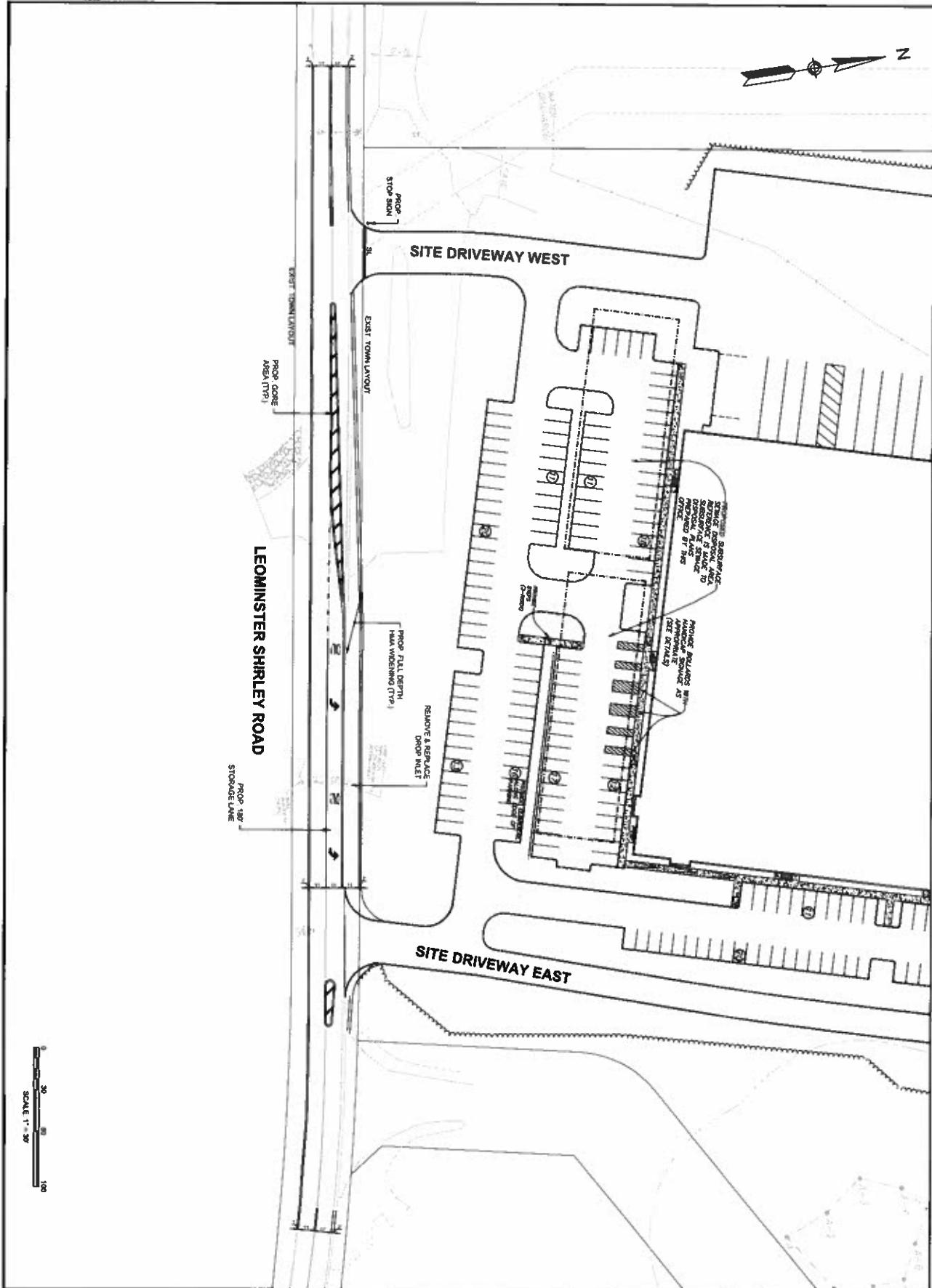
Class:

Pedestrians

	Old Shirley Road						Leominster Shirley Road						Fort Pond Road						Leominster Shirley Road						
	from North						from East						from South						from West						
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Right	Thru	Left	U-Turn	CW-EB	CW-WB	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0
Exiting Leg Total	0						0						0						0						

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Old Shirley Road						Leominster Shirley Road						Fort Pond Road						Leominster Shirley Road						
	from North						from East						from South						from West						
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Right	Thru	Left	U-Turn	CW-EB	CW-WB	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exiting Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0						0						0						0						



**PROPOSED LEFT-TURN LANE
WAREHOUSE DISTRIBUTION FACILITY
LUNENBURG, MASSACHUSETTS**

SCHEMATIC DESIGN PLAN			
REVISION	DATE	REVISION	DATE
DWY	EMR	DWY	EMR

REV. 0
NEC-2021/20
08/2021

ALL NOTED

1 OF 1

PROPOSED LEFT-TURN LANE
WAREHOUSE DISTRIBUTION FACILITY
LUNENBURG, MASSACHUSETTS
08/14/2021
John M. Caccione & Co., LLC
100 Old Colony Road, Suite 200
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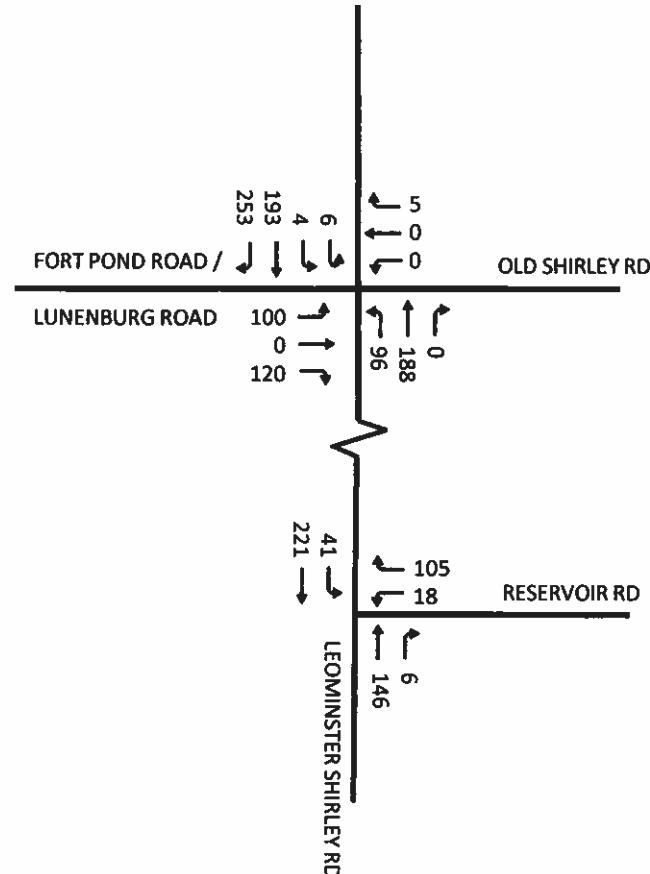
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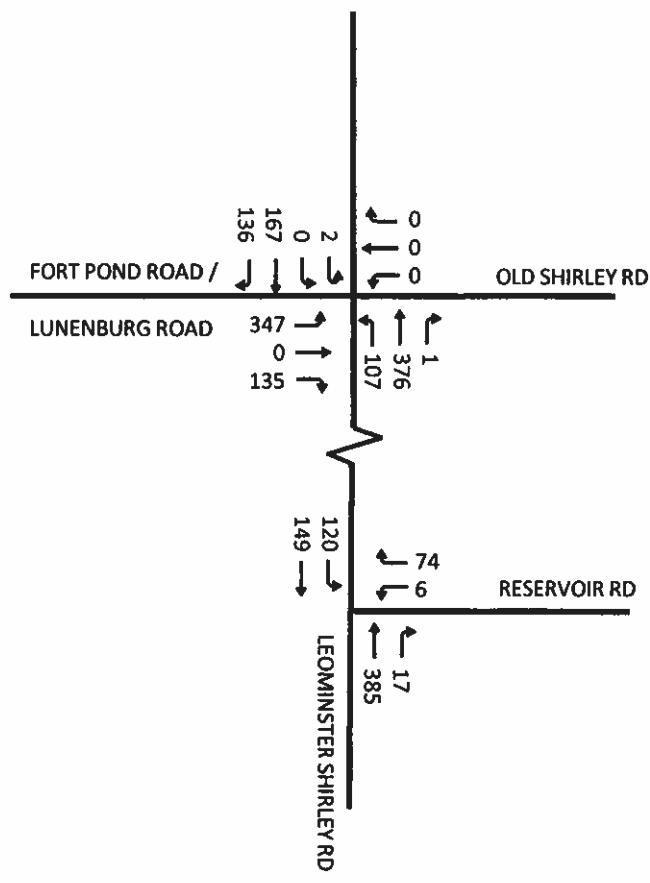
FIGURE I

2021 BASE YEAR
PEAK HOUR TRAFFIC VOLUMES

WEEKDAY AM



WEEKDAY PM



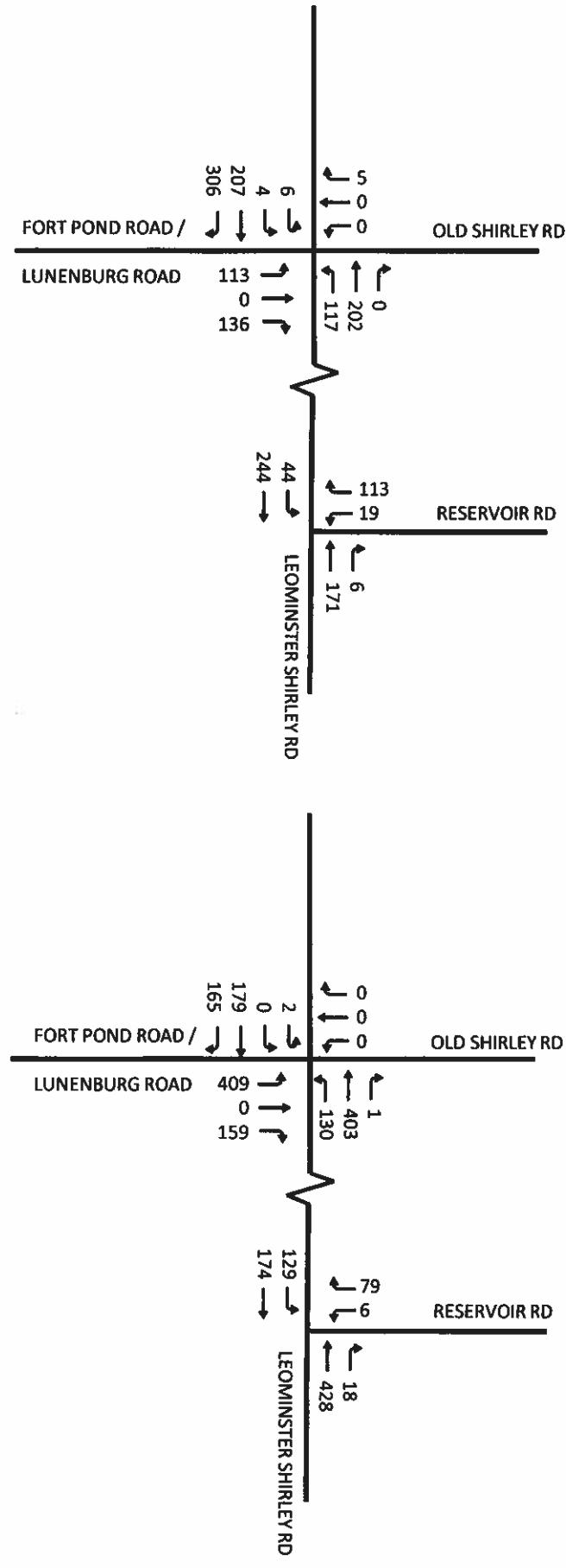
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FIGURE 2

2028 NO-BUILD
PEAK HOUR TRAFFIC VOLUMES

WEEKDAY PM



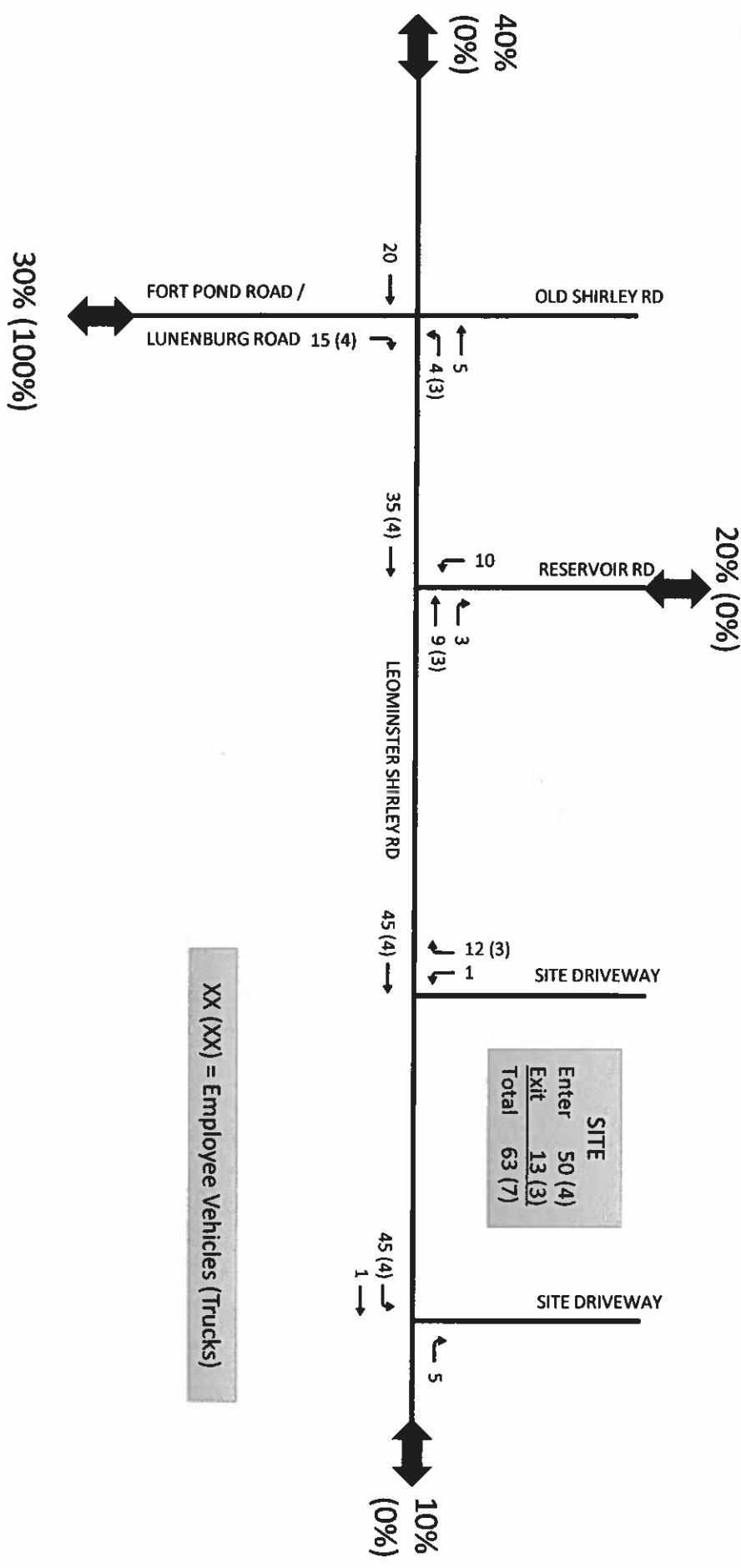


FIGURE 3
 SITE-GENERATED TRIPS WEEKDAY AM
 PEAK HOUR TRAFFIC VOLUMES



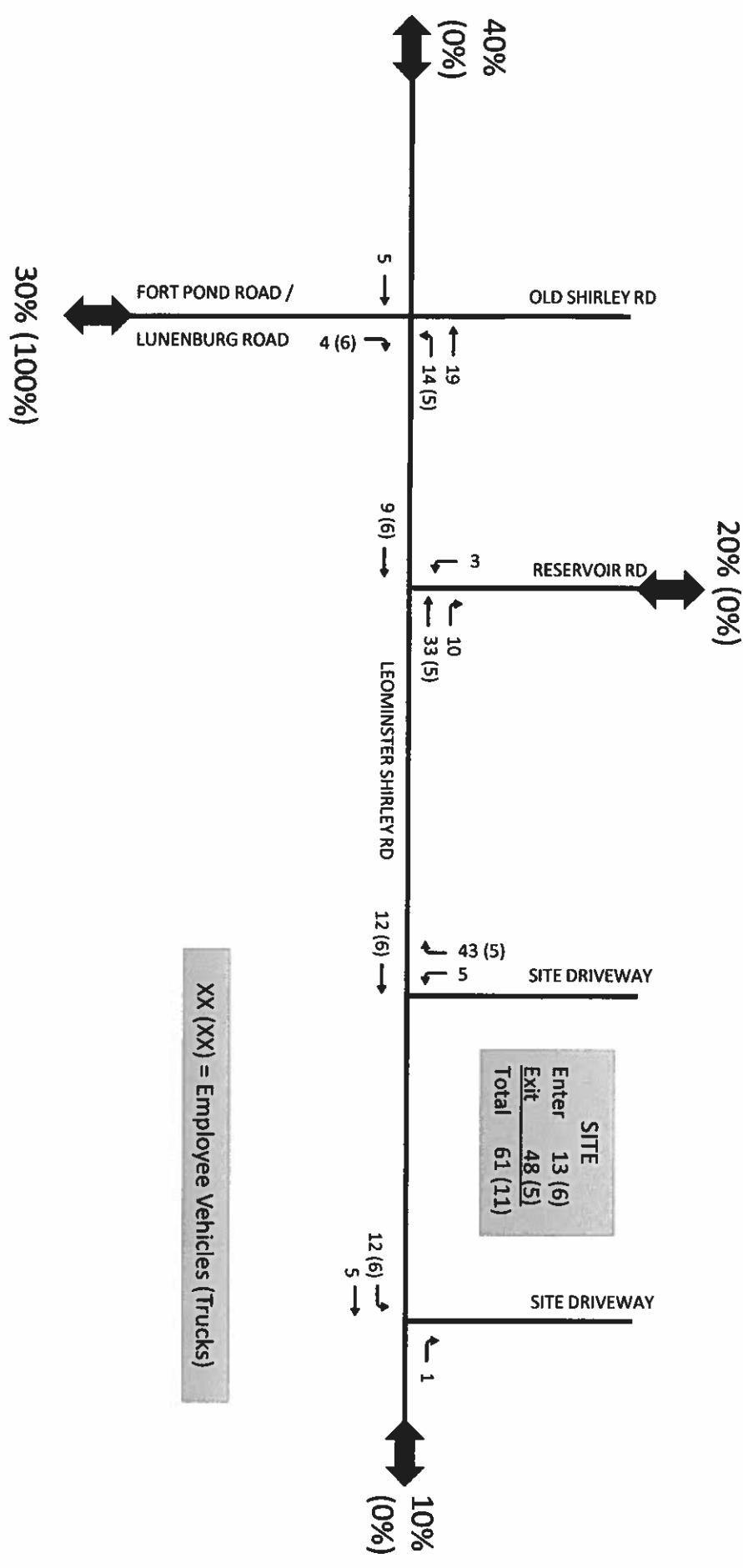
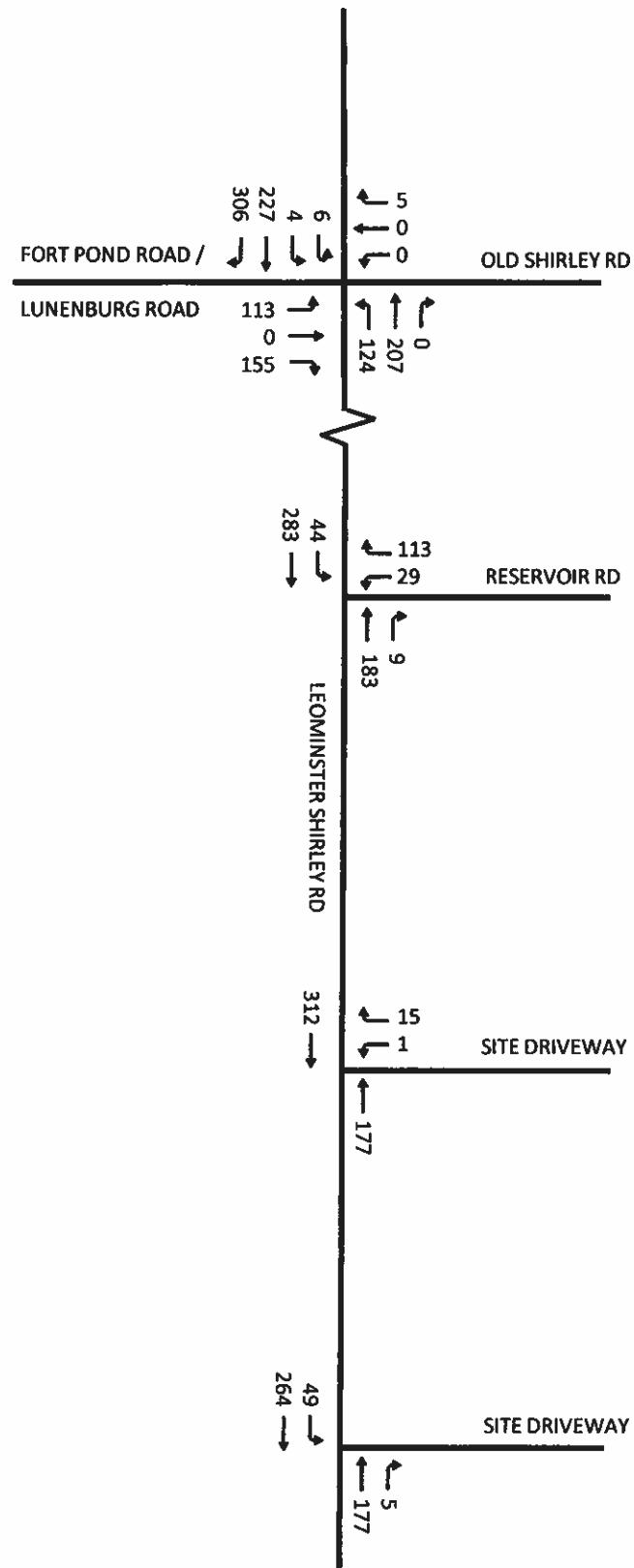
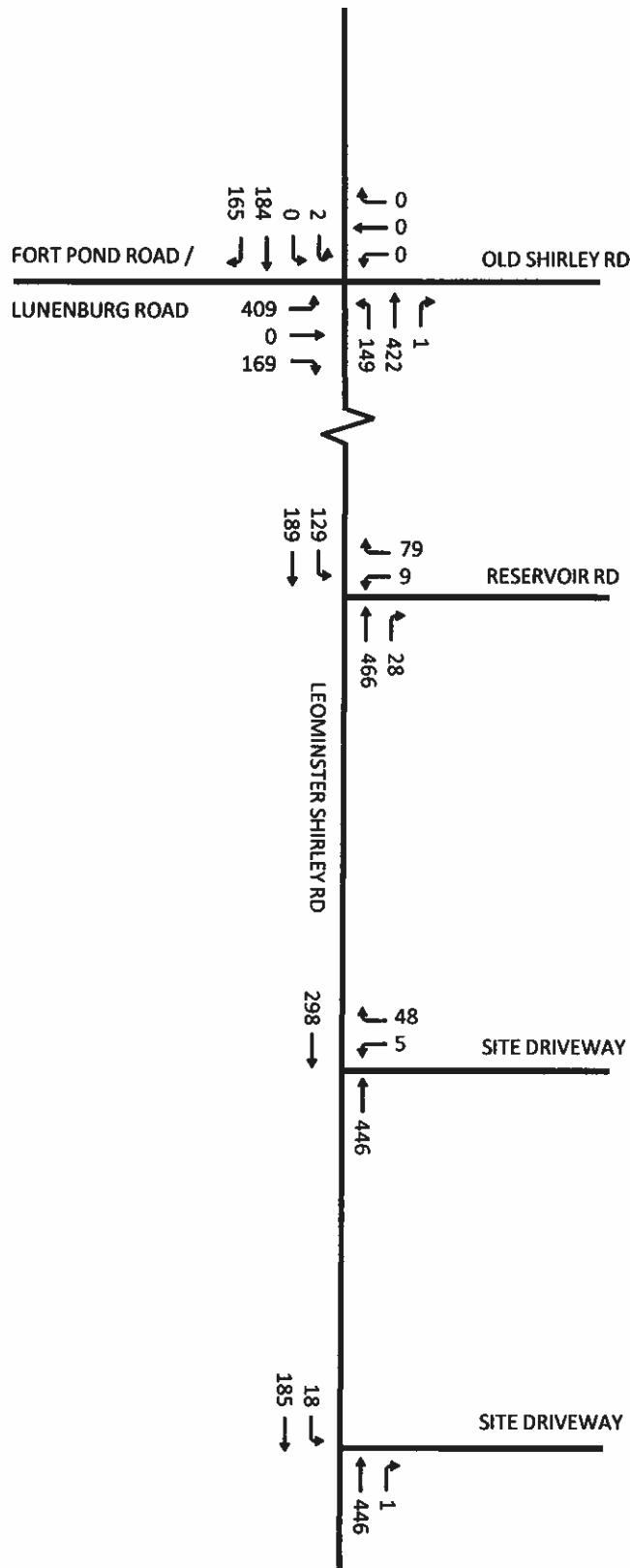


FIGURE 4
SITE-GENERATED TRIPS WEEKDAY PM PEAK HOUR TRAFFIC VOLUMES

FIGURE 5



GPIGreenman-Pedersen, Inc. ■ 181 Ballardvale Street, Suite 202, Waltham, MA 01887
INDUSTRIAL DEVELOPMENT - LUNENBURG, MASSACHUSETTS**FIGURE 6**
2028 BUILD WEEKDAY PM
PEAK HOUR TRAFFIC VOLUMES

INTERSECTION CAPACITY ANALYSIS SUMMARY

Intersection/Peak Hour/Lane Group	2021 Existing				2028 No-Build				2028 Build			
	V/C ^a	Del. ^b	LOS ^c	Queue ^d	V/C	Del.	LOS	Queue	V/C	Del.	LOS	Queue
Leominster Shirley Road at Reservoir Road												
Weekday AM:												
Reservoir Road SB approach	0.13	10.1	B	-/≤25	0.15	10.4	B	-/≤25	0.15	10.8	B	-/≤25
Leominster Shirley Road WB approach	0.09	1.1	A	-/≤25	0.11	1.1	A	-/≤25	0.12	1.4	A	-/≤25
Leominster Shirley Road EB approach	0.17	2.2	A	-/≤25	0.19	2.4	A	-/≤25	0.21	2.5	A	-/≤25
Weekday PM:												
Reservoir Road SB approach	0.13	11.8	B	-/≤25	0.15	12.6	B	-/≤25	0.16	13.3	B	-/≤25
Leominster Shirley Road WB approach	0.24	2.3	A	-/≤25	0.28	2.6	A	-/≤25	0.31	3.1	A	-/≤25
Leominster Shirley Road EB approach	0.20	4.2	A	-/≤25	0.23	4.6	A	-/≤30	0.25	4.8	A	-/≤33
Leominster Shirley Road at Fort Pond Road and Old Shirley Road												
Weekday AM:												
Old Shirley Road SB approach	0.02	11.8	B	-/≤25	0.02	12.2	B	-/≤25	0.02	12.5	B	-/≤25
Leominster Shirley Road WB approach	0.25	5.0	A	-/≤32	0.28	5.7	A	-/≤42	0.30	6.0	A	-/≤50
Leominster Shirley Road EB approach	0.32	2.8	A	-/≤25	0.35	3.2	A	-/≤25	0.37	3.3	A	-/≤25
Fort Pond Road NB Left-Thru Lane	0.36	22.4	C	-/≤49	0.43	26.4	D	-/≤62	0.45	28.6	D	-/≤66
Fort Pond Road NB Right-Turn Lane	0.19	11.2	B	-/≤25	0.21	11.4	B	-/≤27	0.25	12.0	B	-/≤32
Weekday PM:												
Old Shirley Road SB approach	0.01	14.8	B	-/≤25	0.01	16.8	C	-/≤25	0.01	17.7	C	-/≤25
Leominster Shirley Road WB approach	0.30	3.9	A	-/≤28	0.36	4.7	A	-/≤49	0.40	5.3	A	-/≤71
Leominster Shirley Road EB approach	0.19	1.5	A	-/≤25	0.22	1.9	A	-/≤25	0.23	1.9	A	-/≤25
Fort Pond Road NB Left-Thru Lane	1.14	132.1	F	-/≤748	1.73	>300	F	-/1,835	1.87	>300	F	-/1,985
Fort Pond Road NB Right-Turn Lane	0.17	10.1	B	-/≤25	0.21	10.6	B	-/≤26	0.23	10.8	B	-/≤29

^aVolume-to-capacity ratio.

^bAverage control delay in seconds per vehicle.

^cLevel of service.

^dAverage/95th percentile queue length in feet per lane (assuming 25 feet per vehicle).

INTERSECTION CAPACITY ANALYSIS SUMMARY

Intersection/Peak Hour/Lane Group	2021 Existing			2028 No-Build			2028 Build		
	V/C ^a	Del. ^b	LOS ^c	V/C	Del.	LOS	V/C	Del.	LOS
Leominster Shirley Road at Egress Site Driveway									
<i>Weekday AM:</i>									
Site Driveway SB approach	--	--	--	-/-	--	--	-/-	0.02	10.1
Leominster Shirley Road WB approach	--	--	--	-/-	--	--	-/-	0.10	0.0
Leominster Shirley Road EB approach	--	--	--	-/-	--	--	-/-	0.19	A
<i>Weekday PM:</i>									
Site Driveway SB approach	--	--	--	-/-	--	--	-/-	0.11	12.7
Leominster Shirley Road WB approach	--	--	--	-/-	--	--	-/-	0.26	0.1
Leominster Shirley Road EB approach	--	--	--	-/-	--	--	-/-	0.12	A
Leominster Shirley Road at Access Site Driveway									
<i>Weekday AM:</i>									
Leominster Shirley Road WB approach	--	--	--	-/-	--	--	-/-	0.11	0.0
Leominster Shirley Road EB approach	--	--	--	-/-	--	--	-/-	0.20	A
<i>Weekday PM:</i>									
Leominster Shirley Road WB approach	--	--	--	-/-	--	--	-/-	0.26	0.1
Leominster Shirley Road EB approach	--	--	--	-/-	--	--	-/-	0.13	2.0

^a Volume-to-capacity ratio.

^b Average control delay in seconds per vehicle.

^c Level of service.

^d Average 95th percentile queue length in feet per lane (assuming 25 feet per vehicle).