MEMORANDUM

TO: Mr. Steven Brody

39 West Street

Medway, MA 02053

FROM: Mr. Jeffrey S. Dirk, P.E.*, PTOE, FITE

Managing Partner *and*Mr. Daniel C. LaCivita
Transportation Engineer
Vanasse & Associates, Inc.

35 New England Business Center Drive

Suite 140

Andover, MA 01810-1066



*Professional Engineer in CT, MA, ME, NH, RI and VA

DATE: August 15, 2025 **RE:** 10451

SUBJECT: Transportation Impact Evaluation

Proposed Residential Development – 39 West Street

Medway, Massachusetts

Vanasse & Associates, Inc. (VAI) has conducted a Transportation Impact Evaluation (TIE) in support of the proposed residential development to be located at 39 West Street in Medway, Massachusetts (hereafter referred to as the "Project"). This evaluation: i) reviews the existing conditions of the transportation infrastructure serving the Project site; ii) defines the potential increase in traffic that the current project may represent; and iii) evaluates lines of sight at the location of the driveway that will serve the Project site along West Street. This evaluation was conducted in general accordance with the standards of the Traffic Engineering and Transportation Planning professions for the preparation of such reports.

Based on this evaluation, we have concluded that the Project will generate up to 12 vehicle trips during the weekday peak hours, or no more than one (1) additional vehicle every 5-minutes. When distributed to West Street, and then subsequently to Milford Street (Route 109) and Main Street (Route 126), and over the respective peak hours, the additional traffic attributable to the Project will not result in a material impact (increase) on motorist delays or vehicle queuing over existing conditions.

In consideration of the findings above, we have concluded that the Project can be accommodated within the confines of the existing transportation infrastructure. Recommendations have been provided with regard to the access to the Project site and internal circulation.

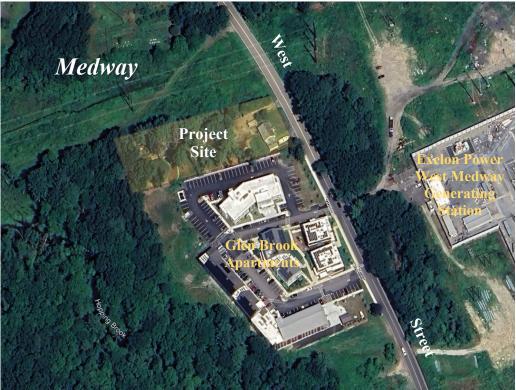
The following details our evaluation of the Project.

PROJECT DESCRIPTION

The Project will entail the construction of a 24-unit, multifamily residential building to be located at 39 West Street in Medway, Massachusetts. The Project site consists of 1.48± acres of land that is bounded by areas of open and wooded space and power lines to the north; the Glen Brook Apartments to the south;



West Street to the east; and areas of open and wooded space and low-lying wetlands to the west. The Project site is currently improved by a single-family home (39 West Street) and associated appurtenances, all of which will be removed to accommodate the Project.



Source: Google Imagery ©2025.

Access to the Project site will be provided by way of a driveway that will intersect the west side of West Street at the approximate location of the existing north driveway that serves the Project site (adjacent to the northern property line). On-site parking will be provided for 36 vehicles, or a parking ratio of 1.5 parking spaces per unit, which is consistent with the parking requirements for a multifamily residential development as defined in Section 7.1.1 *Off-Street Parking and Loading*, of the Town of Medway Zoning Bylaw.¹

EXISTING CONDITIONS CONTEXT

A review of existing conditions within the study area was undertaken using available information in order to establish the context of the Project site with respect to the existing transportation infrastructure. The review included existing roadway geometrics; pedestrian and bicycle facilities; and public transportation services; as well as posted speed limits and land use information for the roadways in the vicinity of the Project site. The following provides a description of the transportation infrastructure serving the Project site.

¹Table 3, Schedule of Off-Street Parking Requirements, of the Zoning Bylaw specifies that a minimum of 1.5 parking spaces per unit be provided for multifamily residential units in a mixed-use development. Specific parking requirements are not provided for stand-alone multifamily residential developments.

Roadway

West Street

West Street is a two-lane, minor arterial roadway that traverses a general northwest-southeast direction in the vicinity of the Project site and is under the jurisdiction of the Town of Medway. In the vicinity of the Project site, West Street provides two 13- to 14-foot wide travel lanes that are separated by a double-yellow centerline with 1- to 2-foot wide shoulders. The posted speed limit along the roadway in the vicinity of the Project site is 35 miles per hour (mph). A sidewalk is provided along at least one side of West Street south of the Project site. Illumination is provided intermittently by way of street lights mounted on wood poles. Land use along the West Street in the vicinity of the Project site consists of residential properties, the Glen Brook Apartments and the Exelon Power West Medway Generating Station. West Street was found to accommodate approximately 2,365 vehicles per day on an average weekday (two-way, 24-hour volume) as measured in August 2025, with 162 vehicles per hour (vph) during the weekday morning peak-hour and 201 vph during the weekday evening peak-hour.

Vehicle Travel Speed Measurements

Vehicle travel speed measurements were performed on West Street in the vicinity of the Project site over a continuous 48-hour period in August 2025. Based on these measurements, the mean vehicle travel speed along West Street in the vicinity of the Project site was found to be 31 mph in the northwestbound direction and 38 mph southeastbound. The measured 85th percentile vehicle travel speed, or the speed at which 85 percent of the observed vehicles traveled at or below, was found to be 34 mph in the northwestbound direction and 41 mph southeastbound, which approximates or exceeds the posted speed limit along West Street in the vicinity of the Project site (35 mph). The 85th percentile speed is used as the basis of engineering design and in the evaluation of sight distances and is often used in establishing posted speed limits.

Pedestrian and Bicycle Facilities

A sidewalk is provided along the west side (Project side) of West Street along the frontage of the Glen Brook Apartments with a marked crosswalk and accompanying Rectangular Rapid Flashing Beacon (RRFB) provided for crossing West Street at the West Street/Glen Brook Way (south) intersection that connects to the sidewalk along the east side of West Street and continues to Main Street (Route 126).

Formal bicycle facilities are not provided in the vicinity of the Project site; however, West Street generally provides sufficient width (combined travel lane and shoulder) on a continuous basis to support bicycle travel in a shared traveled-way configuration (i.e., motor vehicles and bicyclists sharing the roadway).²

Public Transportation Services

Regularly scheduled public transportation services are not currently provided in the vicinity of the Project site

²A minimum combined travel lane and paved shoulder width of 14 feet is required to support bicycle travel in a shared traveled-way condition.

Motor Vehicle Crash Data

A review of the Massachusetts Department of Transportation (MassDOT) statewide High Crash Location List indicated that there are no locations within the Town of Medway that are identified as high crash locations.

PROJECT-GENERATED TRAFFIC

In order to develop the traffic characteristics of the Project, trip-generation statistics published by the Institute of Transportation Engineers (ITE)³ for a similar land use as that proposed was used. ITE Land Use Code (LUC) 220, *Multifamily Housing (Low-Rise)*, was used to establish the traffic characteristics of the Project, the results of which are summarized in Table 1.

Table 1 TRIP-GENERATION SUMMARY

		Vehicle Trips ^a	
Time Period	Entering	Exiting	Total
Average Weekday:	115	115	230
Weekday Morning Peak-Hour:	2	8	10
Weekday Evening Peak-Hour:	8	4	12

^aBased on ITE LUC 220, Multifamily Housing (Low-Rise) (24 dwelling units).

Project-Generated Traffic Volume Summary

As can be seen in Table 1, the Project is expected to generate approximately 230 vehicles trips on an average weekday (two-way, 24-hour volume), with 10 vehicle trips (2 vehicles entering and 5 exiting) expected during the weekday morning peak-hour and 12 vehicle trips (8 vehicles entering and 4 exiting) expected during the weekday evening peak-hour.

When distributed to West Street, and then subsequently Milford Street (Route 109) and Main Street (Route 126), and over the respective peak hours, the additional traffic that is expected to be generated by the Project (up to 12 vehicles during the weekday peak hours, or no more than one (1) additional vehicle every 5-minutes) will not result in a material impact (increase) on motorist delays or vehicle queuing over existing conditions.



³Trip Generation, 11th Edition; Institute of Transportation Engineers; Washington, DC; 2021.

SIGHT DISTANCE EVALUATION

Sight distance measurements were performed at the proposed intersection of the Project site driveway with West Street in accordance with MassDOT and American Association of State Highway and Transportation Officials (AASHTO)⁴ requirements. Both stopping sight distance (SSD) and intersection sight distance (ISD) measurements were performed. In brief, SSD is the distance required by a vehicle traveling at the design speed of a roadway, on wet pavement, to stop prior to striking an object in its travel path. ISD or corner sight distance (CSD) is the sight distance required by a driver entering or crossing an intersecting roadway to perceive an oncoming vehicle and safely complete a turning or crossing maneuver with oncoming traffic. In accordance with AASHTO standards, if the measured ISD is at least equal to the required SSD value for the appropriate design speed, the intersection can operate in a safe manner. Table 2 presents the measured SSD and ISD at the subject intersection.

Table 2 SIGHT DISTANCE MEASUREMENTS^a

		Feet	
Intersection/Sight Distance Measurement	Required Minimum (SSD)	Desirable (ISD) ^b	Measured
West Street at the Project Site Driveway			
Stopping Sight Distance:			
West Street approaching from the northwest	360		469
West Street approaching from the southeast	250		287
Intersection Sight Distance:			
Intersection Signi Distance.			
Looking to the northwest from the Project Site Driveway	360	430	452°

^aRecommended minimum values obtained from *A Policy on Geometric Design of Highways and Streets*, 7th Edition; American Association of State Highway and Transportation Officials (AASHTO); 2018; and based on a 35 mph approach speed northbound on West Street and a 45 mph approach speed southbound.

As can be seen in Table 2, with the selective trimming of vegetation located north of the Project site driveway within the sight triangle area, the available lines of sight to and from the Project site driveway will exceed the recommended minimum sight distances to function in a safe manner based on 35 mph approach speed in the northbound direction along West Street and a 45 mph approach speed southbound. The 35 mph approach speed along West Street in the northwestbound direction is consistent with the posted speed limit in the vicinity of the Project site (35 mph) and the measured 85th percentile vehicle travel speed (34 mph). The 45 mph approach speed along West Street in the southeastbound direction exceeds both the measured 85th percentile vehicle travel speed (41 mph) and the posted speed limit in the vicinity of the Project site (35 mph).

^bValues shown are the intersection sight distance for a vehicle turning right or left exiting a roadway under STOP control such that motorists approaching the intersection on the major street should not need to adjust their travel speed to less than 70 percent of their initial approach speed.

^cAvailable sight distance with the selective trimming or removal of vegetation located within the sight triangle area to the north of the Project site driveway.

⁴A Policy on Geometric Design of Highway and Streets, 7th Edition; American Association of State Highway and Transportation Officials (AASHTO); Washington D.C.; 2018.

SUMMARY

VAI has conducted a Transportation Impact Evaluation in support of the proposed residential development to be located at 39 West Street in Medway, Massachusetts. This evaluation has: i) reviewed the existing conditions of the transportation infrastructure serving the Project site; ii) defined the potential increase in traffic that the current project may represent; and iii) evaluated lines of sight at the driveway that will serve the Project site along West Street. This evaluation was conducted in general accordance with the standards of the Traffic Engineering and Transportation Planning professions for the preparation of such reports.

Based on this evaluation, we have concluded that the Project will generate up to 12 vehicle trips during the weekday peak hours, or no more than one (1) additional vehicle every 5-minutes. When distributed to West Street, and then subsequently to Milford Street (Route 109) and Main Street (Route 126) and over the respective peak hours, the additional traffic attributable to the Project will not result in a material impact (increase) on motorist delays or vehicle queuing over existing conditions.

In consideration of these findings, we have concluded that the Project can be accommodated within the confines of the existing transportation infrastructure in a safe and efficient manner with the implementation of the recommendations that follow.

RECOMMENDATIONS

Site Access

The following recommendations are offered with respect to the design and operation of the access to the Project site and internal circulation:

- ➤ The Project site driveway should be a minimum of 24-feet in width and designed to accommodate the maneuvering requirements of the largest anticipated responding emergency vehicle.
- ➤ Vehicles exiting the Project site should be placed under STOP-sign control with a marked STOP-line provided.
- ➤ All signs and pavement markings to be installed within the Project site should conform to the applicable standards of the *Manual on Uniform Traffic Control Devices* (MUTCD).⁵
- A sidewalk is proposed along the Project site driveway that will extend to West Street where a sidewalk is proposed along the Project site frontage that will connect to the existing sidewalk to the south of the Project site.
- > Signs and landscaping located within sight triangle areas of the Project site driveway should be designed and maintained so as not to restrict lines of sight.
- ➤ Vegetation located along the west side of West Street north of the Project site within the sight triangle area of the Project site driveway should be selectively trimmed or removed and maintained such that is does not restrict lines of sight.
- > Snow accumulations (windrows) within sight triangle areas should be promptly removed where such accumulations would impede sight lines.

As

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⁵Manual on Uniform Traffic Control Devices (MUTCD); Federal Highway Administration; Washington, D.C.; <u>200</u>9.

Two (2) electric vehicle (EV) parking spaces will be provided within the Project site, with seven (7) parking spaces to be EV-ready.

Transportation Demand Management

In an effort to encourage the use of alternative modes of transportation to single-occupant vehicles (SOVs), the following Transportation Demand Management (TDM) measures should be implemented as a part of the Project:

- ➤ A Transportation Coordinator (TC) should be assigned for the Project, who may also have other duties, to coordinate the TDM program;
- ➤ Information regarding public transportation services, maps, schedules, and fare information should be posted in a central location and/or otherwise made available to residents;
- ➤ A "welcome packet" should be provided to residents that will include the contact information for the TC and detailing available public transportation services, bicycle and walking alternatives, and other commuter options;
- ➤ Pedestrian accommodations have been incorporated within the Project and consist of sidewalks that connect the residential building to the proposed and existing sidewalk infrastructure along West Street;
- Consideration should be given to providing an accommodation for short-term parking at an appropriate location within the Project site for rideshare service providers and deliveries/service vehicles;
- A central maildrop and package delivery station should be provided; and
- > Secure bicycle parking should be provided to include weather protected bicycle parking and exterior bicycle parking by way of a bicycle rack installed at an appropriate location proximate to the building entrance.

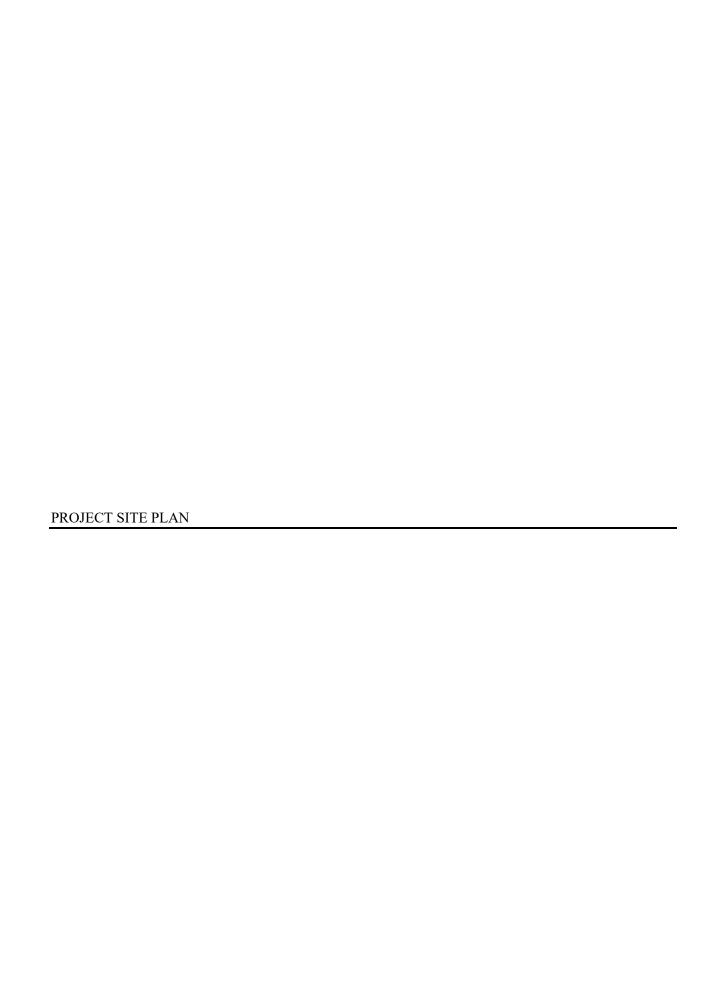
With implementation of the aforementioned recommendations, safe and efficient access will be provided to the Project site and the Project can be accommodated within the confines of the existing transportation system.

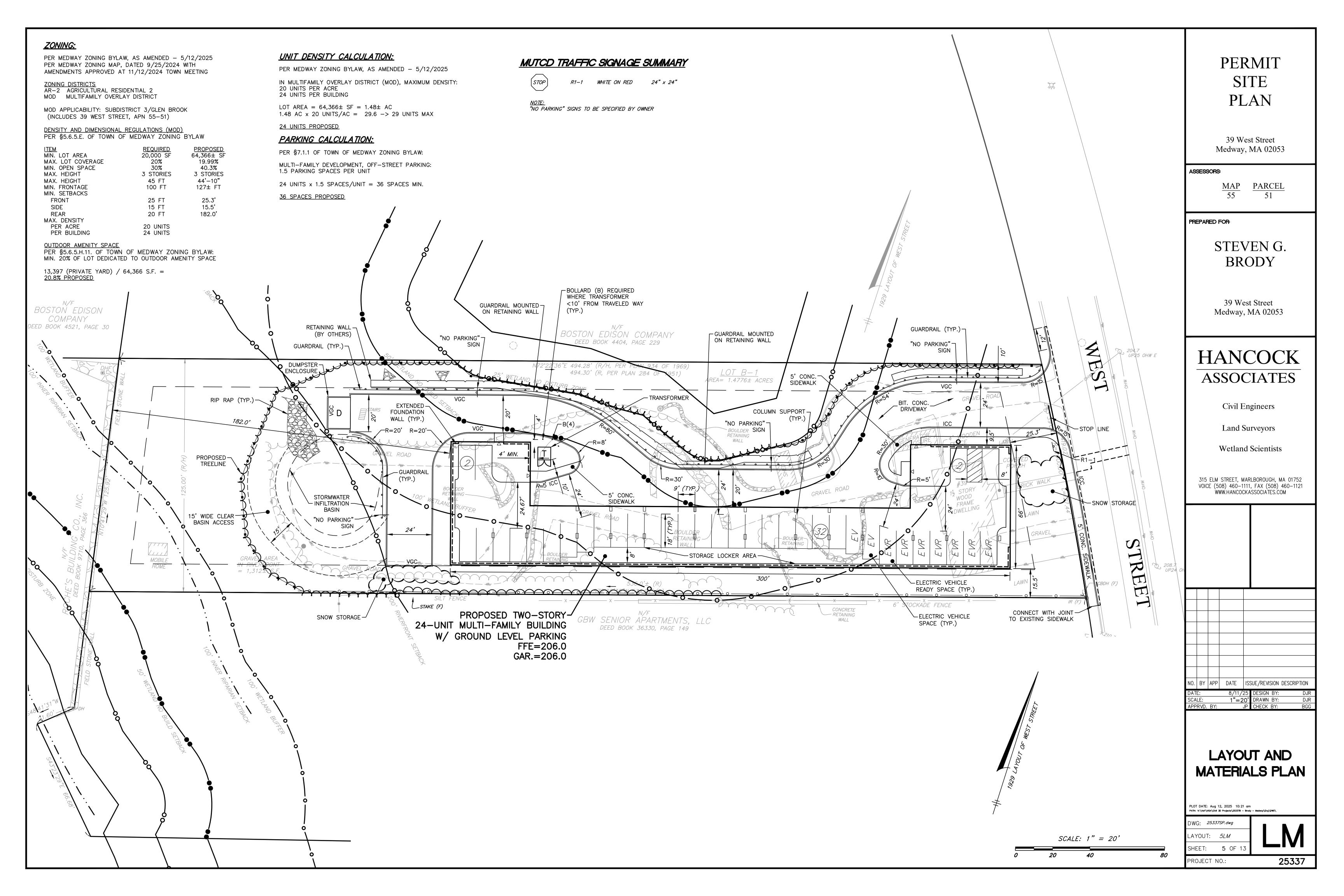
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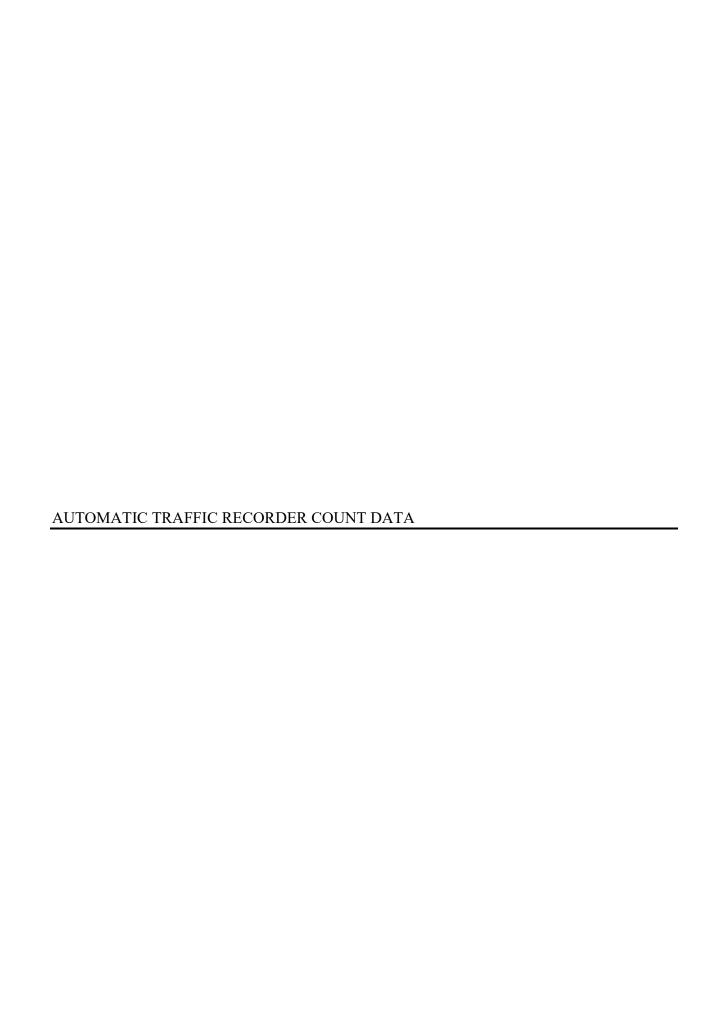


ATTACHMENTS

PROJECT SITE PLAN
AUTOMATIC TRAFFIC RECORDER COUNT DATA
VEHICLE TRAVEL SPEEDS
MASSDOT HIGH CRASH LOCATION MAP
TRIP-GENERATION CALCULATIONS







Location: West Street Location: North of 39 West Street City/State: Medway, MA Site Code: 10451001

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11:00 12 0 14 1 11:15 21 1 17 1 11:30 17 0 21 2 11:45 15 1 65 2 20 1 72 5 137 7 Total 464 579 421 936 885 1515			5								
11:15 21 1 17 1 11:30 17 0 21 2 11:45 15 1 65 2 20 1 72 5 137 7 Total 464 579 421 936 885 1515				77	15		2	78	16	155	31
11:30 17 0 21 2 11:45 15 1 65 2 20 1 72 5 137 7 Total 464 579 421 936 885 1515											
11:45 15 1 65 2 20 1 72 5 137 7 Total 464 579 421 936 885 1515											
Total 464 579 421 936 885 1515											
				65	2			72	5		7
Percent 44.5% 55.5% 31.0% 69.0% 36.9% 63.1%											
	Percent	44.5%	55.5%			31.0%	69.0%			36.9%	63.1%

Location: West Street Location: North of 39 West Street City/State: Medway, MA Site Code: 10451001

No. Hour Totals SB, Hour Totals Morning Afternoon Af	92 93 98	Combined Morning 9 3	172 151 163
12:00	92 93 98	9	172 151
12:30 0 19 1 22 8 12:45 0 16 1 80 3 23 8 1:00 0 0 22 3 25 1 1:15 0 16 0 23 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	93	3	151
12:45 0 16 1 80 3 23 8 1:10 0 0 22 3 25 8 1:15 0 16 0 23 1 1:30 0 15 0 22 1 1:45 0 5 0 58 0 23 3 2:00 0 17 0 19 2 6 0 23 3 3 2:00 0 17 0 19 0 26 23 0 26 23 0 30 22 3 0 30 2 2 33 0 0 32 2 0 33 3 0 33 3 0 33 33 0 0 22 43 33 3 1 0 25 33 3 1 0 25 33 3 1 3 4 1 1 0 22 43 3 3 1 1 1 2 <td>93</td> <td>3</td> <td>151</td>	93	3	151
1:00 0 22 1:15 0 16 1:30 0 15 1:30 0 15 0 0 22 1:45 0 5 0 58 0 23 3 2:00 0 0 19 0 19 2 2 0 33 3 0 19 2 3 0 0 30 0 2 0 33 3 0 33 3 0 0 33 0 0 33 3 0 0 33 3 0 0 33 3 0 0 33 3 0 33 3 0 0 33 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 1 0 2 2 43 3 3 1 1 2 2	93	3	151
1:15 0 16 1:30 0 15 0 0 22 1:45 0 5 0 5 0 58 0 0 19 2:15 1 15 0 26 2:30 1 17 0 30 2:45 0 16 2 65 0 23 0 3:00 0 22 0 33 0 0 25 33 0 0 25 33 0 0 225 33 0 0 225 33 0 0 225 33 0 0 225 33 0 0 225 33 0 0 225 33 0 0 225 33 0 0 225 33 0 0 225 33 0 0 225 33 0 0 225 34 1 1 226 226 226 226 226 226 227 244 <td>98</td> <td></td> <td></td>	98		
1:30 0 15 0 58 0 22 3 1:45 0 5 0 58 0 23 3 2:00 0 17 0 19 0 26 2:30 1 17 0 30 0 22 0 30 0 2:45 0 16 2 65 0 23 0 0 33 3:00 0 22 0 33 0 33 33 0 33 33 2 43 33 33 2 43 33	98		
1:45 0 5 0 58 0 23 3 2:00 0 0 17 0 19 2:15 1 15 0 26 2:30 1 17 0 30 2:45 0 16 2 65 0 23 0 3:00 0 22 0 33 0 33 0 33 0 33 0 33 0 33 33 0 25 33 0 0 25 33 33 0 33 33 0 33 34	98		
2:00 0 17 2:15 1 15 0 26 2:30 1 17 0 30 2:45 0 16 2 65 0 23 0 3:00 0 22 0 33 33 0 33 33 0 33 34 34 33 34 34 33 34 <t< td=""><td>98</td><td></td><td></td></t<>	98		
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2:30 1 17 0 30 <td< td=""><td></td><td>2</td><td>163</td></td<>		2	163
2:45 0 16 2 65 0 23 0 3:00 0 22 0 33 0 3:15 0 11 0 25 3:30 0 19 2 43 3:45 2 16 2 68 0 32 2 4:00 4 13 0 41 4:15 2 18 0 33 4:30 4 17 1 27 4:45 2 11 12 59 1 35 2 5:00 3 19 3 31 33 31 5:15 6 23 2 34 34 34 5:30 8 32 2 34 34 34 5:30 8 32 2 34 34 35 34 35 31 44 35 44 45 34 34 35 31 34 34 35 34 35 34 34 35 31 34 35 34 35 36 34 35 31 34 34 34 34 34 <td< td=""><td></td><td>2</td><td>163</td></td<>		2	163
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3:15 0 11 3:30 0 19 3:45 2 16 2 68 0 32 2 4:00 4 13 0 41 4:15 2 18 0 33 4:30 4 17 1 27 4:45 2 11 12 59 1 35 2 5:00 3 19 3 31 5 2 5:15 6 23 2 34 5:30 8 32 5 23 5:45 12 12 29 86 4 27 14 6:00 5 20 2 29 6:15 8 15 8 31 6:30 12 18 6 17 6:45 10 14 35 67 10 20 26 7:00 11 7 6 13 7:30 18 9 11 13 7:45 16 11 60 37 29 11 55 8:00 25 14 19 8 12 21	133		
3:30 0 19 2 68 0 32 2 4:00 4 13 0 41 4:15 2 18 0 33 4:30 4 17 1 27 4:45 2 11 12 59 1 35 2 5:00 3 19 3 31 515 6 23 2 34 5:30 8 32 2 34 53 2 34 53 55 23 52 34 53 54 53 54 53 54 53 54 53 54 <t< td=""><td>133</td><td></td><td></td></t<>	133		
3:45 2 16 2 68 0 32 2 4:00 4 13 0 41 4:15 2 18 0 33 4:30 4 17 1 27 4:45 2 11 12 59 1 35 2 5:00 3 19 3 31 5 2 34 5 2 34 5 2 34 5 2 34 5 3 31 5 12 2 34 34 34 3 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 4 32 3 3 31 4 4 27 14 4 4 27 14 4 4 27 14 4 4 27 14 4 4 4 27 14 4 4 4 7 6 17 10<	133		
4:00 4 13 0 41 4:15 2 18 0 33 4:30 4 17 1 27 4:45 2 11 12 59 1 35 2 5:00 3 19 3 31 31 31 31 31 31 31 31 32 33 31 41 42 42 32 32 33 31 42 42 42 42 42 42 42 42 42 42 42 42 42 42	100	4	201
4:15 2 18 0 33 4:30 4 17 1 27 4:45 2 11 12 59 1 35 2 5:00 3 19 3 31 31 31 31 31 31 35 2 34 35 2 34 34 35 2 34 35 31 31 35 2 34 34 35 31 31 35 2 34 34 35 31 31 35 2 34 34 35 31 34 35 31 34 35 31 34 35 31 34 35 31 34 34 35 31 34 35 31 34 34 35 31 34 34 35 31 31 34<		-	20
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5:00 3 19 3 31 5:15 6 23 2 34 5:30 8 32 5 23 5:45 12 12 29 86 4 27 14 6:00 5 20 2 29 14 6:15 8 15 8 31 6:30 12 18 6 17 6:45 10 14 35 67 10 20 26 7:00 11 7 6 13 13 13 14 13 14 14 14 15 15 10 14 15 15 10 11 13 15 15 10 11 13 14 14 14 14 14 14 14 14 15 14 14 15 <td>136</td> <td>14</td> <td>195</td>	136	14	195
5:15 6 23 5:30 8 32 5:45 12 12 29 86 4 27 14 6:00 5 20 2 29 14 2 29 14 6:00 5 20 2 29 29 14 2 29 14 31 14 31 6 17 14 31 6 17 17 17 6 17 17 18 18 18 18 18 18 18 18 18 18 18 18 19 11 13 18 19 11 15 18 19 11 15 18 19 11 15 18 19 11 15 18 19 11 15 18 18 19 11 15 18 18 19 11 15 18 19 11 13 19 11 11 12 11 11 12 11 11 12 11 11 <			
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6:00 5 20 2 29 6:15 8 15 8 31 6:30 12 18 6 17 6:45 10 14 35 67 10 20 26 7:00 11 7 6 15 15 10 9 15 7:30 18 9 11 13 7:45 16 11 60 37 29 11 55 8:00 25 14 12 21 8:15 22 12 17 8:30 18 7 8:45 19 9 84 42 17 10 65 9:00 17 7 7 9:15 18 5 18 5			
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6:30			
6:45 10 14 35 67 10 20 26 7:00 11 7 6 13 7:15 15 10 9 15 7:30 18 9 11 13 7:45 16 11 60 37 29 11 55 8:00 25 14 12 21 8:15 22 12 17 8 8:30 18 7 19 8 8:45 19 9 84 42 17 10 65 9:00 17 7 22 6 9:15 18 5 18 13			
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7:15	97	61	164
7:30			
7:45 16 11 60 37 29 11 55 8:00 25 14 12 21 8:15 22 12 17 8 8:30 18 7 19 8 8:45 19 9 84 42 17 10 65 9:00 17 7 9 9:15 18 5 18 5			
8:00 25 14 12 21 8:15 22 12 17 8 8:30 18 7 19 8 8:45 19 9 84 42 17 10 65 9:00 17 7 22 6 9:15 18 5 18 13		115	00
8:15 22 12 17 8 8:30 18 7 19 8 8:45 19 9 84 42 17 10 65 9:00 17 7 22 6 9:15 18 5 18 13	52	115	89
8:30 18 7 8:45 19 9 9:00 17 7 9:15 18 5			
8:45 19 9 84 42 17 10 65 9:00 17 7 22 6 9:15 18 5 18 13			
9:00 17 7 9:15 18 5 18 13	47	149	89
9:15 18 5 18 13	7,	140	
9:30 17 5 12 8			
9:45 14 4 66 21 14 7 66	34	132	5
10:00 18 5 13 5			
10:15 23 3 12 2			
10:30 15 1 17 5			
10:45 10 0 66 9 18 3 60	15	126	24
11:00 17 1 14 4			
11:15 15 1 24 2			
11:30 21 0 13 2			
11:45 13 1 66 3 30 3 81	11	147	14
Total 423 595 382 923		805	1518
Percent 41.6% 58.4% 29.3% 70.7%		34.7%	65.3%
Grand Total 887 1174 803 1859		1690	3033
Percent 43.0% 57.0% 30.2% 69.8%		35.8%	64.2%
ADT ADT: 2,362 AADT: 2,362	1		

ADT ADT: 2,362 AADT: 2,362

Location: West Street Site Code: 10451001

Location: North of 39 West Street City/State: Medway, MA

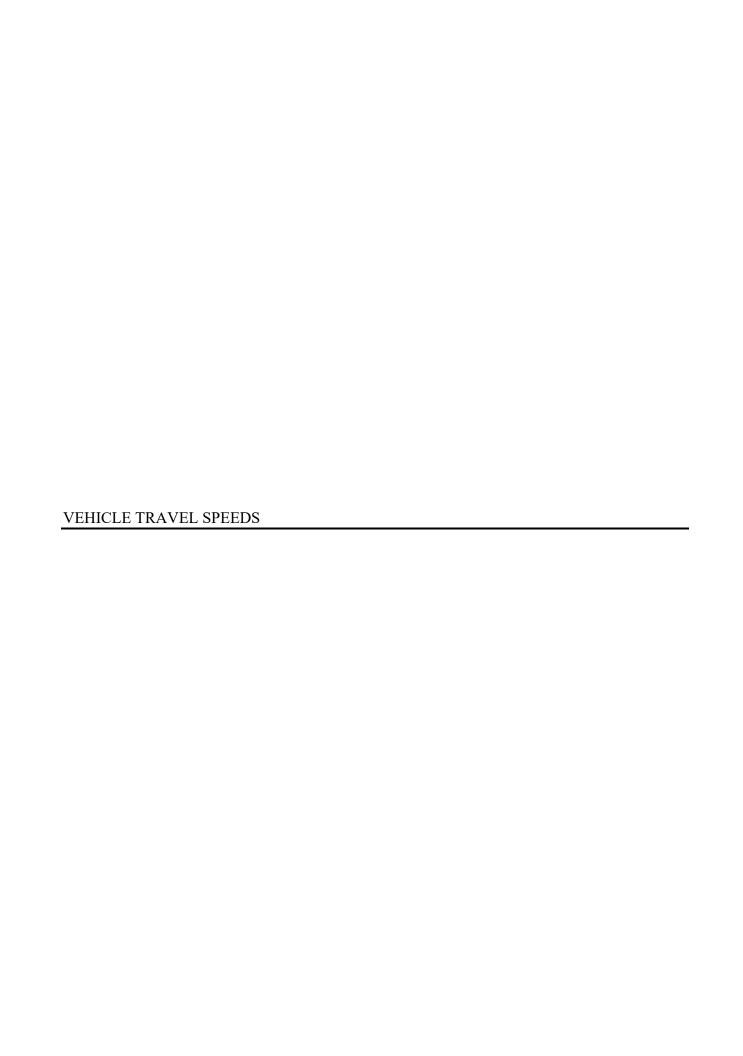
ADT

ADT: 2,362

AADT: 2,362

8/11/2025	Monday	У	Tuesda	у	Wednes	sday	Thurso	day	Frida	ay	Saturo	lay	Sunda	у	Week Ave	rage
Time		SB,		SB,	NB,	ŚВ,	NB,	SB,	NB,	SB,	NB,	SB,	NB,	SB,	NB,	SB,
12:00 AM	*	*	2	7	1	8	*	*	*	*	*	*	*	*	2	8
1:00	*	*	1	2	0	3	*	*	*	*	*	*	*	*	0	2
2:00	*	*	0	1	2	0	*	*	*	*	*	*	*	*	1	0
3:00	*	*	3	3	2	2	*	*	*	*	*	*	*	*	2	2
4:00	*	*	9	5	12	2	*	*	*	*	*	*	*	*	10	4
5:00	*	*	33	15	29	14	*	*	*	*	*	*	*	*	31	14
6:00	*	*	42	32	35	26	*	*	*	*	*	*	*	*	38	29
7:00	*	*	77	56	60	55	*	*	*	*	*	*	*	*	68	56
8:00	*	*	87	87	84	65	*	*	*	*	*	*	*	*	86	76
9:00	*	*	68	63	66	66	*	*	*	*	*	*	*	*	67	64
10:00	*	*	77	78	66	60	*	*	*	*	*	*	*	*	72	69
11:00	*	*	65	72	66	81	*	*	*	*	*	*	*	*	66	76
12:00 PM	*	*	54	95	80	92	*	*	*	*	*	*	*	*	67	94
1:00	*	*	56	99	58	93	*	*	*	*	*	*	*	*	57	96
2:00	*	*	48	100	65	98	*	*	*	*	*	*	*	*	56	99
3:00	*	*	72	114	68	133	*	*	*	*	*	*	*	*	70	124
4:00	*	*	80	127	59	136	*	*	*	*	*	*	*	*	70	132
5:00	*	*	83	121	86	115	*	*	*	*	*	*	*	*	84	118
6:00	*	*	69	90	67	97	*	*	*	*	*	*	*	*	68	94
7:00	*	*	36	69	37	52	*	*	*	*	*	*	*	*	36	60
8:00	*	*	34	69	42	47	*	*	*	*	*	*	*	*	38	58
9:00	*	*	30	31	21	34	*	*	*	*	*	*	*	*	26	32
10:00	*	*	15	16	9	15	*	*	*	*	*	*	*	*	12	16
11:00	*	*	2	5	3	11	*	*	*	*	*	*	*	*	2	8
Total	0	0	1043	1357	1018	1305	0	0	0	0	0	0	0	0	1029	1331
Day	0		2400		2323		0		0		0		0		2360	
AM Peak			8:00	8:00	8:00	11:00									8:00	8:00
Volume			87	87	84	81									86	76
PM Peak			5:00	4:00	5:00	4:00									5:00	4:00
Volume			83	127	86	136									84	132
Comb Total	0		2400		2323	3	0		0		0		0		2360	

1



Location: West Street Location: North of 39 West Street City/State: Medway, MA Direction: NB, Site Code: 10451001

Direction. 14D,														
8/12/2025	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	Total
12:00 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	2
1:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	1	0	1	1	0	0	0	0	0	0	0	3
4:00	0	1	1	2	4	1	0	0	0	0	0	0	0	9
5:00	1	0	2	10	15	4	1	0	0	0	0	0	0	33
6:00	0	1	4	14	16	7	0	0	0	0	0	0	0	42
7:00	1	0	7	24	27	14	3	1	0	0	0	0	0	77
8:00	1	0	8	28	28	17	4	1	0	0	0	0	0	87
9:00	0	0	17	20	24	6	0	1	0	0	0	0	0	68
10:00	0	1	9	33	23	9	2	0	0	0	0	0	0	77
11:00	0	0	17	20	18	9	1	0	0	0	0	0	0	65
12:00 PM	0	2	9	16	13	12	2	0	0	0	0	0	0	54
1:00	0	0	9	23	16	8	0	0	0	0	0	0	0	56
2:00	0	0	7	14	17	8	2	0	0	0	0	0	0	48
3:00	1	2	11	16	30	11	0	0	1	0	0	0	0	72
4:00	0	1	9	24	30	12	4	0	0	0	0	0	0	80
5:00	0	0	9	28	34	12	0	0	0	0	0	0	0	83
6:00	0	0	5	25	28	6	5	0	0	0	0	0	0	69
7:00	0	1	10	10	11	3	1	0	0	0	0	0	0	36
8:00	0	1	9	13	5	6	0	0	0	0	0	0	0	34
9:00	0	1	6	11	7	4	1	0	0	0	0	0	0	30
10:00	0	0	3	6	4	1	1	0	0	0	0	0	0	15
11:00	0	0	0	0	2	0	0	0	0	0	0	0	0	2
Total	4	. 11	154	337	355	151	27	3	1	0	0	0	0	1043

Percentile 15th 50th 85th 95th Speed 24 29 34 38

Mean Speed (Average) 10 MPH Pace Speed 30.7 26-35 Number in Pace 692 Percent in Pace 66.0% Number > 35 MPH 182 Percent > 35 MPH 17.4%

Location: West Street Location: North of 39 West Street City/State: Medway, MA Direction: NB, Site Code: 10451001

Percent > 35 MPH 17.5%

Direction: NB,														
8/13/2025	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	Total
12:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	1
1:00	0			0						0			0	0
2:00	0	0		1	0		0	0	0	0		0	0	2
3:00	0	_	-	0		_	_	-	-	_	_	0	0	2
4:00	1	0		5		_	1	0	_	0	0	0	0	12
5:00	0		_	8		_	0	0	0	0		0	0	29
6:00	0	0	6	11	12		1	1	0	0	0	0	0	35
7:00	0	1	10	12	26	10	1	0	0	0	0	0	0	60
8:00	1	0	7	26	36	10	3	0	0	0	0	1	0	84
9:00	0	0	11	17	27	10	1	0	0	0	0	0	0	66
10:00	0	0	14	24	17	8	2	1	0	0	0	0	0	66
11:00	0	2	9	20	24	9	1	1	0	0	0	0	0	66
12:00 PM	0	0	8	26	25	18	3	0	0	0	0	0	0	80
1:00	0	3	5	18	24	7	1	0	0	0	0	0	0	58
2:00	0	2	12	19	25	6	1	0	0	0	0	0	0	65
3:00	0	0	5	21	28	11	3	0	0	0	0	0	0	68
4:00	1	0	6	23	17	11	1	0	0	0	0	0	0	59
5:00	0	2	9	23	36	13	2	0	1	0	0	0	0	86
6:00	0	1	6	23	24	11	2		0	0	0	0	0	67
7:00	1	0	7	13	11	5	0	0	0	0	0	0	0	37
8:00	0	1	9	15	15			0	0	0	0	0	0	42
9:00	0		6	7				0		0		0	0	21
10:00	0	0	2	4			1	0	0	0	0	0	0	9
11:00	0	0	1	1	1	0	0	0	0	0	0	0	0	3
Total	4	. 12	141	317	365	148	25	3	1	0	1	1	0	1018
			Percentile	15th										
			Speed											
	Mea	n Speed (30.8										
) MPH Pa		26-35										
		Numbe	er in Pace	674										
		Percer	nt in Pace	67.0%										
		Number >	> 35 MPH	179										
			> 35 MPH	17.6%										
Grand Total	8			654		299	52	6	2	0	1	1	0	2061
Stats			Percentile	15th										
			Speed	24										
	Mea	n Speed (30.7										
		MPH Pa		26-35										
			er in Pace	1372										
			nt in Pace	67.0%										
		Number >		361										

Location: West Street Location: North of 39 West Street City/State: Medway, MA Direction: SB, Site Code: 10451001

			2000004:10	4 5 1 1	LOth	0.546	0546							
Total	1	8	12	54	281	619		64	10	1	0	0	0	1357
11:00	0	0	0	1	2	1	1	0	0	0	0	0	0	5
10:00	0	0	0	3	1	10	2	0	0	0	0	0	0	16
9:00	0	0	0	4	9	14	3	0	1	0	0	0	0	31
8:00	1	1	2	0	18	33	11	3	0	0	0	0	0	69
7:00	0	0	3	3	12	29	15	7	0	0	0	0	0	69
6:00	0	0	0	3	16	37	30	3	1	0	0	0	0	90
5:00	0	0	2	1	23	65	27	2	1	0	0	0	0	121
4:00	0	2	1	2	19	68	26	7	2	0	0	0	0	127
3:00	0	1	0	5	19	55	31	2	1	0	0	0	0	114
2:00	0	0	1	4	20	41	27	7	0	0	0	0	0	100
1:00	0	1	3	5	18	40	22	8	2	0	0	0	0	99
12:00 PM	0	0	0	3	25	45	18	4	0	0	0	0	0	95
11:00	0	0	0	2	17	37	12	4	0	0	0	0	0	72
10:00	0	1	0	8	13	34	20	2	0	0	0	0	0	78
9:00	0	0	0	1	20	22	18	2	0	0	0	0	0	63
8:00	0	0	0	1	17	39	22	7	1	0	0	0	0	87
7:00	0	2	0	4	16	25	9	0	0	0	0	0	0	56
6:00	0	0	0	3	5	15	4	4	1	0	0	0	0	32
5:00	0	0	0	1	5	3	4	1	0	1	0	0	0	15
4:00	0	0	0	0	4	0	1	0	0	0	0	0	0	5
3:00	0	0	0	0	1	1	1	0	0	0	0	0	0	3
2:00	0	0	0	0	0	0	1	0	0	0	0	0	0	1
1:00	0	0	0	0	0	2	0	0	0	0	0	0	0	2
12:00 AM	0			00 1011 11	1	3	2	1	00 1/11	00 1011 11	00 1011 11	0	0	7
Time	MPH	20 MPH			35 MPH	40 MPH				60 MPH		70 MPH	> 70 MPH	Total
8/12/2025	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	

Percentile 15th 50th 85th 95th Speed 32 36 41 44

Mean Speed (Average) 10 MPH Pace Speed 38.0 34-43 Number in Pace 938 Percent in Pace 69.0% Number > 35 MPH 1001 Percent > 35 MPH 73.8%

Location: West Street Location: North of 39 West Street City/State: Medway, MA Direction: SB, Site Code: 10451001

Direction: SB,														
8/13/2025	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	Total
12:00 AM	0	0	0	0	1	6	1	0	0	0	0	0	0	8
1:00	0	0	0	0	0	2	0	1	0	0		0	0	3
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	1	1	0	0	_	0	_	0	0	2
4:00	0	0	0	0	1	0	1	0	0	0	0	0	0	2
5:00	0	0	0	0	3	7	3	0	0	1	0	0	0	14
6:00	0		0	2	7	11	3	2	1	0	0	0	0	26
7:00	0	0	0	2	10	34	8	1	0	0	0	0	0	55
8:00	0	0	0	2	16	28	18	0	1	0	0	0	0	65
9:00	0	0	0	5	11	33	16	1	0	0	0	0	0	66
10:00	0	0	0	4	17	25	12	2		0	0	0	0	60
11:00	0	0	0	1	14	37	25	1	2	1	0	0	0	81
12:00 PM	1	0	2	4	22	48	11	3		0	0	0	0	92
1:00	0	0	0	4	14	44	29	2	0	0	0	0	0	93
2:00	0	1	1	1	22	47	23	2		0	0	0	0	98
3:00	0		1	5	15	58	47	7		0	0	0	0	133
4:00	0	2	1	7	25	58	37	5		0	0	0	0	136
5:00	0	0	0	3	24	61	23	4	0	0	0	0	0	115
6:00	0	0	0	1	26	33	29	7	1	0	0	0	0	97
7:00	0	0	0	1	8	24	14	5	0	0	0	0	0	52
8:00	0	1	0	3	19	15	9	0	0	0	0	0	0	47
9:00	0	0	1	1	6	16	9	1	0	0	_	0	0	34
10:00	0	0	0	0	3	9	3	0	0	0	0	0	0	15
11:00	0	0	0	0	4	2	4	0	1	0		0	0	11
Total	1	4	6	46	269	599	325	44	9	2	0	0	0	1305
		F	Percentile	15th	50th	85th	95th							
			Speed	33	36	41	44							
		n Speed (38.1										
	10	MPH Pa		35-44										
			r in Pace	911										
			nt in Pace	71.0%										
		Number >		979										
		Percent >		75.0%										
Grand Total	2		18	100	550	1218	632	108	19	3	0	0	0	2662
Stats		ŀ	Percentile	15th	50th	85th	95th							
			Speed	33	36	41	44							
		n Speed (38.0										
	10	MPH Pa		35-44										
			r in Pace	1859										
			nt in Pace	70.0%										
		Number >		1980										
		Percent >	35 MPH	74.4%										

Site Code: 10451001

Location: West Street Location: North of 39 West Street City/State: Medway, MA Direction: Combined

8/12/2025	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	Total
12:00 AM	0	0	1	0	2	3	2	1	0	0	0	0	0	9
1:00	0	0	0	0	1	2	0	0	0	0	0	0	0	3
2:00	0	0	0	0	0	0	1	0	0	0	0	0	0	1
3:00	0	0	1	0	2	2	1	0	0	0	0	0	0	6
4:00	0	1	1	2	8	1	1	0	0	0	0	0	0	14
5:00	1	0	2	11	20	7	5	1	0	1	0	0	0	48
6:00	0	1	4	17	21	22	4	4	1	0	0	0	0	74
7:00	1	2	7	28	43	39	12	1	0	0	0	0	0	133
8:00	1	0	8	29	45	56	26	8	1	0	0	0	0	174
9:00	0	0	17	21	44	28	18	3	0	0	0	0	0	131
10:00	0	2	9	41	36	43	22	2	0	0	0	0	0	155
11:00	0	0	17	22	35	46	13	4	0	0	0	0	0	137
12:00 PM	0	2	9	19	38	57	20	4	0	0	0	0	0	149
1:00	0	1	12	28	34	48	22	8	2	0	0	0	0	155
2:00	0	0	8	18	37	49	29	7	0	0	0	0	0	148
3:00	1	3	11	21	49	66	31	2	2	0	0	0	0	186
4:00	0	3	10	26	49	80	30	7	2	0	0	0	0	207
5:00	0	0	11	29	57	77	27	2	1	0	0	0	0	204
6:00	0	0	5	28	44	43	35	3	1	0	0	0	0	159
7:00	0	1	13	13	23	32	16	7	0	0	0	0	0	105
8:00	1	2	11	13	23	39	11	3	0	0	0	0	0	103
9:00	0	1	6	15	16	18	4	0	1	0	0	0	0	61
10:00	0	0	3	9	5	11	3	0	0	0	0	0	0	31
11:00	0	0	0	1	4	1	1	0	0	0	0	0	0	7
Total	5				636	770	334	67	11	1	0	0	0	2400
				4 5 1 1	L 04P	0.51	0.516							

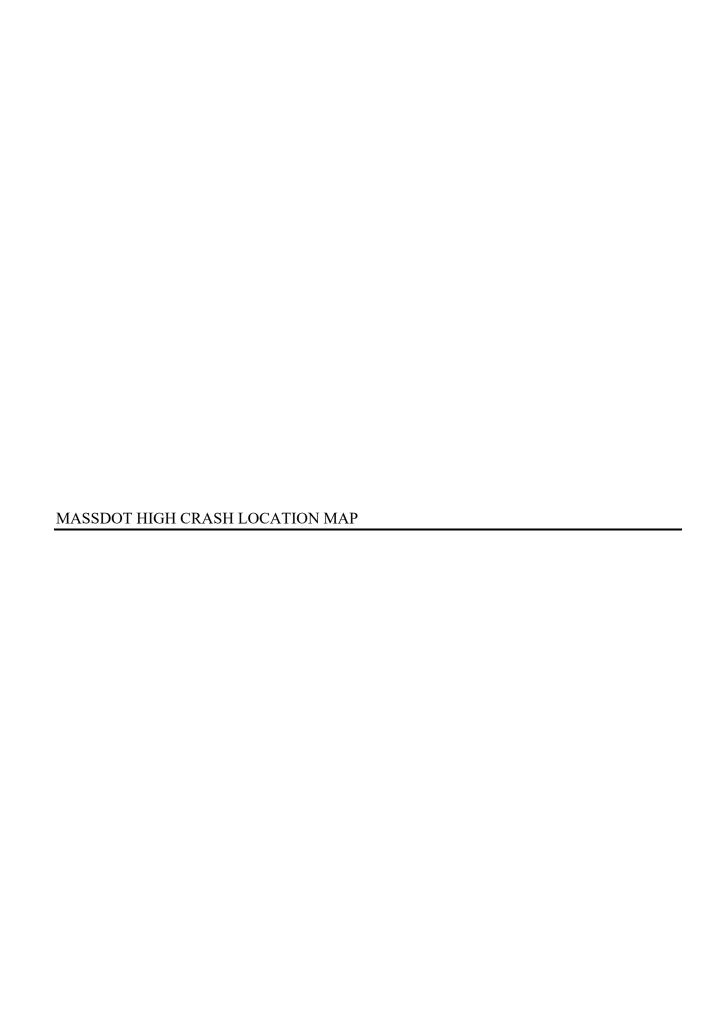
Percentile 15th 50th 85th 95th Speed 27 34 39 42

Mean Speed (Average) 10 MPH Pace Speed 34.8 31-40 Number in Pace 1406 Percent in Pace 59.0% Number > 35 MPH 1183 Percent > 35 MPH 49.3%

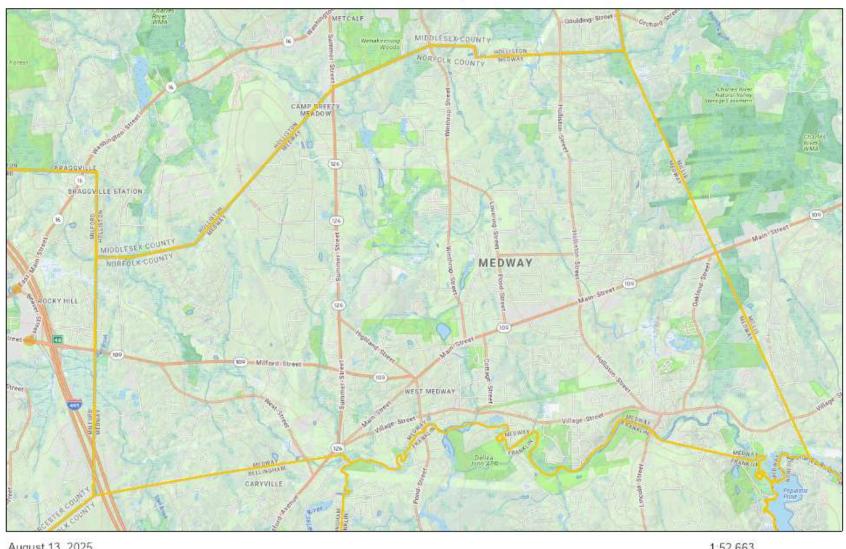
Location: West Street Location: North of 39 West Street City/State: Medway, MA Direction: Combined Site Code: 10451001

Percent > 35 MPH 49.6%

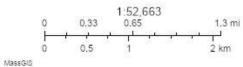
Direction. Com	Dillieu													
8/13/2025	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	
Time	MPH		25 MPH	30 MPH	35 MPH		45 MPH		55 MPH	60 MPH			MPH	Total
12:00 AM	0		_	0	1	7	1	0	0	0	0	0	0	9
1:00	0			0	0	2	0	1	0	0	0	0	0	3
2:00	0			1	0	0	0	0	0	0	0	0	0	2
3:00	0			0	3	1	0	0	0	0	0	0	0	4
4:00	1	0		5	2	2	2	0	0	0	0	0	0	14
5:00	0			8	10	15	3	0	0	1	1	0	0	43
6:00	0	_	_	13	19	15	4	3	1	0	0	0	0	61
7:00	0		10	14	36		9	1	0	0	0	0	0	115
8:00	1	0		28	52		21	0	1	0	0	1	0	149
9:00	0			22	38	43	17	1	0	0	0	0	0	132
10:00	0			28	34	33	14	3	0	0	0	0	0	126
11:00	0			21	38	46	26	2	2	1	0	0	0	147
12:00 PM	1	0		30	47	66	14	3	1	0	0	0	0	172
1:00	0			22	38	51	30	2		0	0	0	0	151
2:00	0			20	47	53	24	2		0	0	0	0	163
3:00	0	_		26	43	69	50	7	0	0	0	0	0	201
4:00	1	2		30	42		38	5	1	0	0	0	0	195
5:00	0			26	60		25	4	1	0	0	0	0	201
6:00	0		6	24	50		31	7	1	0	0	0	0	164
7:00	1	0		14	19	29	14	5	0	0	0	0	0	89
8:00	0			18	34		9	0	0	0	0	0	0	89
9:00	0			8	11	18	10	1	0	0	0	0	0	55
10:00	0	0	2	4	5	9	4	0	0	0	0	0	0	24
11:00	0			1	5	2	4	0	1	0	0	0	0	14
Total	5			363	634		350	47	10	2	1	1	0	2323
		F	Percentile	15th	50th		95th							
		_	Speed	26	34	39	42							
		n Speed (34.9										
	10	MPH Pa		31-40										
			er in Pace	1360										
			nt in Pace	60.0%										
		Number >		1158										
			> 35 MPH	49.8%										
Grand Total	10			754	1270	1517	684	114	21	3	1	1	0	4723
Stats		F	Percentile	15th	50th		95th							
		_	Speed	27	34	39	42							
		n Speed (34.9										
	10	MPH Pa		31-40										
			er in Pace	2780										
			nt in Pace	59.0%										
		Number >	> 35 MPH	2341										



HSIP Map



August 13, 2025







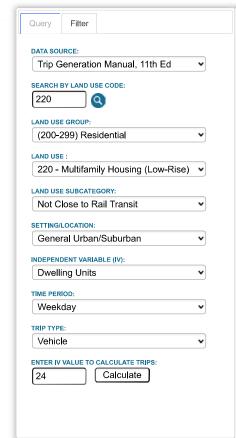


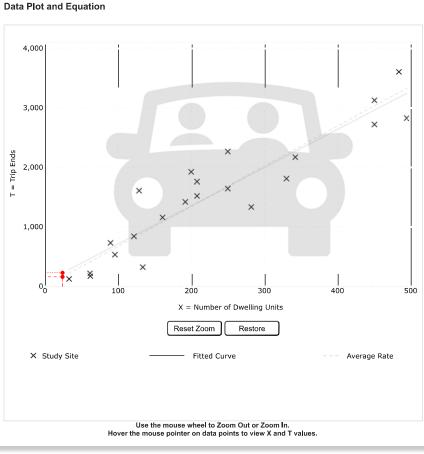


Graph Look Up

ITETripGen Web-based App Graph Look Up How to Use ITETripGen TGM Desk Reference TGM Appendices

Add Users







Multifamily Housing (Low-Rise) - Not Close to Rail Transit (220) Click for Description and Data Plots

Independent Variable:

Dwelling Units

Time Period:

Land Use:

Weekday

Setting/Location:

General Urban/Suburban

Trip Type:

Vehicle

Number of Studies:

Avg. Num. of Dwelling Units:

229

Average Rate:

6.74

Range of Rates:

2.46 - 12.50

Standard Deviation:

Fitted Curve Equation: T = 6.41(X) + 75.31

R²: 0.86

Directional Distribution:

50% entering, 50% exiting

Calculated Trip Ends:

Average Rate: 162 (Total), 81 (Entry), 81 (Exit)

Fitted Curve: 229 (Total), 115 (Entry), 114 (Exit)

Add-ons to do more







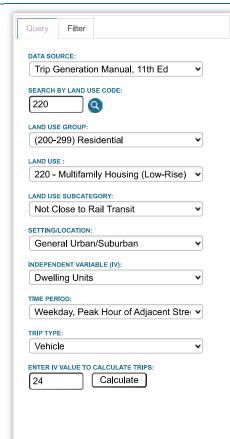
Graph Look Up

h Change Password Account Settings



ITETripGen Web-based App Graph Look Up How to Use ITETripGen TGM Desk Reference TGM Appendices

Add Users



Data Plot and Equation 300 × 200 Trip Ends 100 1,000 800 1,200 X = Number of Dwelling Units Reset Zoom Restore × Study Site Fitted Curve Average Rate Use the mouse wheel to Zoom Out or Zoom In. Hover the mouse pointer on data points to view X and T values.



Land Use:

Multifamily Housing (Low-Rise) - Not Close to Rail Transit (220) Click for Description and Data Plots

Independent Variable:

Dwelling Units

Time Period:

Weekday

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

Setting/Location:

General Urban/Suburban

Trip Type:

Vehicle

Number of Studies:

Avg. Num. of Dwelling Units:

Average Rate: 0.40

Range of Rates: 0.13 - 0.73

Standard Deviation: 0.12

Fitted Curve Equation:

T = 0.31(X) + 22.85

R²:

0.79

Directional Distribution:

24% entering, 76% exiting

Calculated Trip Ends:

Average Rate: 10 (Total), 2 (Entry), 8 (Exit) Fitted Curve: 30 (Total), 7 (Entry), 23 (Exit)

Add-ons to do more





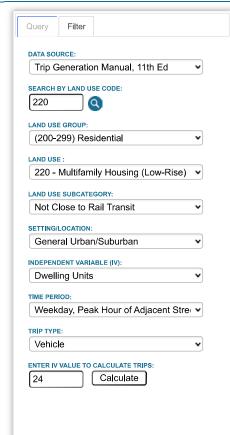


Graph Look Up

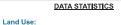
h Change Password Account Settings



ITETripGen Web-based App Graph Look Up How to Use ITETripGen TGM Desk Reference TGM Appendices Add Users



Data Plot and Equation 500 400 = Trip Ends 300 200 100 1,000 1,200 X = Number of Dwelling Units Reset Zoom Restore × Study Site Fitted Curve Average Rate Use the mouse wheel to Zoom Out or Zoom In. Hover the mouse pointer on data points to view X and T values.



Multifamily Housing (Low-Rise) - Not Close to Rail Transit (220) Click for Description and Data Plots

Independent Variable:

Dwelling Units

Time Period:

Weekday

Peak Hour of Adjacent Street Traffic

One Hour Between 4 and 6 p.m.

Setting/Location:

General Urban/Suburban

Trip Type:

Vehicle

Number of Studies:

Avg. Num. of Dwelling Units:

Average Rate:

0.51

Range of Rates:

0.08 - 1.04

Standard Deviation:

0.15

Fitted Curve Equation:

T = 0.43(X) + 20.55

 \mathbb{R}^2 :

0.84

Directional Distribution:

63% entering, 37% exiting

Calculated Trip Ends:

Average Rate: 12 (Total), 8 (Entry), 4 (Exit)

Fitted Curve: 31 (Total), 19 (Entry), 12 (Exit)

Add-ons to do more