# TOWN-WIDE PEDESTRIAN SAFETY AUDIT



#### **Prepared By:**

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### **EXECUTIVE SUMMARY**

"A town that values the health and safety of its citizens can take small but important steps for pedestrians and the community as a whole."

-Needham Resident

The Town of Needham recognizes the value of pedestrian safety and walking in general and has thus developed this Town-wide Pedestrian Safety Audit to improve upon the pedestrian environment and establish itself as a more walkable, livable and healthy town. This executive summary highlights the audit's goals as well as briefly discusses the recommendations intended for implementation.

#### **PURPOSE OF THE PEDESTRIAN SAFETY AUDIT**

As residents continue to voice concern over pedestrian safety throughout town, the Town of Needham has taken important steps to address such concerns. This Town-wide Pedestrian Safety Audit highlights high-risk pedestrian crossing locations in Needham, provides recommendations for potential pedestrian crossing treatments, and develops an implementation plan for enhancements as additional funding becomes available.

To accelerate the implementation of potential safety solutions, GPI completed an initial assessment to identify the critical crosswalk locations based on several criteria, including; roadway classification, traffic speeds, proximity to schools, transit, religious centers, parks, and civic destinations, adequacy of existing street lighting, the occurrence of pedestrian related collisions and community referenced locations. Based on these initial recommendations, the following nine (9) locations were identified, and construction has been advertised:

- Webster Street at May Street
- Webster Street at Southern H.S. Drive
- Great Plain Avenue at Hillcrest Road
- Great Plain Avenue at Wilshire Park
- Central Avenue at Cedar Street (Add Alternate 2)
- Webster Street at Northern H.S. Drive
- Central Avenue at Newman Elementary School
- Great Plain Avenue at North Hill Road (Add Alternate 1)
- Great Plain Avenue at Broad Meadow Road

The Town-wide Pedestrian Safety Audit Report provides an inventory of all crosswalks in town, identifies locations for improvements and provides potential implementation projects. The report also explores implementing Safety Speed Zones in areas where vulnerable users may be present, reviews the value of adopting a town-wide 25 mph prima facie speed limit, and establishes criteria for installing new pedestrian crossings.

#### GOAL #1: SAFETY

Reduce the number/severity of pedestrian related collisions and decrease vehicle speeds within high priority locations.



#### GOAL #2: HEALTH

Promote walking and thus an increase in mobility and health especially within young children and the elderly community.



#### **GOAL #3: EQUITY**

Improve walkability and accessibility throughout Town for all users regardless of age, race, or socioeconomic status.



#### GOAL #4: COMMUNITY

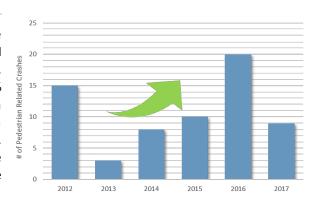
Foster a sustainable community by increasing alternative transportation modes, stimulating human interaction and supporting the economy.





#### THE NEED FOR IMPROVEMENTS AT PEDESTRIAN CROSSINGS

Speed can have a detrimental effect on pedestrian safety. The faster a vehicle strikes a pedestrian, the more likely that pedestrian will sustain a severe injury, or the collision will result in fatality. Statistics highlighted in "Impact Speed and Pedestrian's Risk of Severe Injury or Death", published by Brian Tefft with the AAA Foundation for Traffic Safety, indicates that if a vehicle were to strike a pedestrian at 40 mph, there is a 77% likelihood that a pedestrian will suffer from a severe injury or death. Conversely, if a vehicle were to strike a pedestrian traveling at 25 mph, there would be an 18% likelihood that the pedestrian would suffer from a severe injury or death. As such pedestrians face disproportionately higher injury risks than motorists. Pedestrian related collisions in Needham doubled from 2015 to 2016 and have been rising steadily since 2013. These statistics combined, depict the importance of slowing down motor vehicles, specifically in the vicinity of pedestrian crossings.



See SECTION 3.0 for more information regarding Needham demographics, commuting trends and the existing roadway and pedestrian context.

#### POLICY RECOMMENDATIONS – TOWNWIDE SPEED LIMIT CHANGE

Given the passage of new legislation that allows municipalities to reduce the statutory speed limit from 30 to 25 miles per hour on any or all local, non-state roadways in a thickly settled or business district, the Town of Needham expressed interest in exploring the possibility of implementing a lower 25 mph speed limit. Supporting factors include community level support, adjacent city opt-in and increased pedestrian survival rates at lower speeds in the event of vehicle-pedestrian crashes. According to the research, opposing factors include very minor effects on vehicle speeds and a decrease in driver compliance. Studies show that there is little change in driving speeds after a lower speed limit sign is posted mostly because drivers are generally influenced by the roadway conditions and typically travel at a rate of speed they perceive to fit the context of the road. Therefore, simply lowering the speed limit, without other physical changes to the roadways, could result in a greater disparity in vehicle travel speeds, increased driver compliance and a false sense of safety for bikes and pedestrians, all of which could result in

#### **SECTION 4.1 - IS 25 THE NEW 30?**

GPI recommends no change to the town-wide statutory speed limit of 30 miles per hour but rather to focus on implementing 20-mph speed safety zones in areas where vulnerable users may be present and enforcement efforts can be targeted. See Section 4.1 to review case studies from other cities across America and their findings following speed changes.

additional conflicts. A major component in combating speeds is to change the context of the roadway through traffic calming efforts where the physical characteristics of the roadway alter the motorist's perception of what is a reasonable speed to travel and enforcement. In the current funding environment, it would likely be difficult for local police to effectively enforce a 25-mph statutory speed limit town wide. At this time, GPI recommends no change to the townwide statutory speed limit of 30 miles per hour but rather to focus on implementing 20-mph speed safety zones in areas where vulnerable users may be present and enforcement efforts can be targeted.



#### POLICY RECOMMENDATIONS – IMPLEMENTING SAFETY ZONES

Per Massachusetts State Law, Safety Zones are regulatory speed limits set at 20 miles per hour intended to be used in areas where vulnerable road users are likely to be present, such as parks and playgrounds, senior citizen housing and centers, hospitals or other medical facilities, high school and higher education centers, transit centers and daycare facilities. Vulnerable road users include pedestrian and bicyclists especially children, people with disabilities, and the elderly. Following a spatial assessment of pedestrian generators in relation to the existing roadway and pedestrian network, GPI identified 5 roadway segments that warrant further evaluation for the implementation of safety zones. These are graphically depicted in the top right image and explained in further detail in Section 4.2. To promote the multi-modal nature of the Safety Zones and provide contrast to motorists that they are entering a "sensitive" roadway context, GPI recommends the following be incorporated at each Safety Zone:

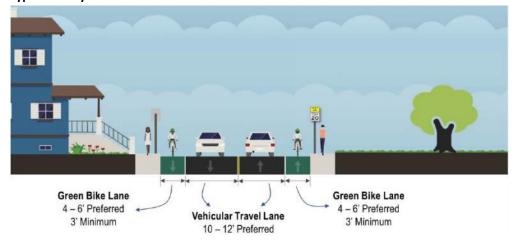
- Appropriate signage to lawfully designate the safety zone
- Uncontrolled crosswalks falling within a safety zone be enhanced with a Rectangular Rapid Flashing Beacon and be marked with a continental style crosswalk for greater visibility
- Stripe roadway segments within Safety Zones to provide greencolored pavement shoulders which can be used to designate bicycle travel

#### **SECTION 4.2 – SAFETY ZONES**

In total, GPI identified 5 roadways segments that warranted further evaluation for the implementation of a safety zone based on adjacent land use, number of access points along a given segment (including crosswalks, driveways and side streets), and segment length. See Section 4.2 to learn more about safety zones and for conceptual cross sections and price breakdowns for each proposed zone.



**Typical Safety Zone Cross Section** 





#### POLICY RECOMMENDATIONS - CROSSWALK INSTALLATIONS

A critical component of pedestrian safety is implementing crossing treatments that foster sustainable safety and are appropriate for a location given the roadway context and surrounding land use. It is recommended that the Town of Needham adopt a crosswalk installation policy to ensure that crosswalks are implemented in locations where it is safe to establish a crossing, and comply to Federal and State standards. Section 4.3 proposes a crosswalk evaluation process and installation policy based on pedestrian activity, vehicular speeds and volumes, existing street lighting and roadway characteristics. A flowchart is provided with recommendations as to whether or not a crosswalk is warranted at a specific location and typical crosswalk details are provided for a number of different case scenarios.

#### SECTION 4.3 – CROSSWALK POLICY

GPI recommends the Town adopt a crosswalk installation policy to ensure crosswalks are installed in safe locations where they are warranted and in compliance with Federal and State regulations. See Section 4.3 to learn more about where crosswalks should be installed and to review a proposed crosswalk policy as developed by GPI.

#### CROSSWALK AUDIT – DATA COLLECTION METHODOLOGY AND RESULTS

In early spring of 2019, GPI conducted an inventory of all of Needham's crosswalks as provided by the Town. In total, there are 431 crosswalks with the following control breakdown: 69 uncontrolled, marked crossings, 230 Stop controlled crossings, 76 Signalized crossings and 56 Parking Lot (Private). Prior to the field inventory, all crosswalks were mapped in a GIS database, provided a unique identifier, and populated with a brief location description. To streamline the data collection process, ESRI mobile applications, Collector and Survey123, were utilized, allowing mass data collection within an organized platform. Further detail as to the attributes collected in the field can be reviewed in Section 5.1. Following the collection, GPI reported findings on several measures including pavement marking condition, sign condition (where applicable), wheelchair ramp presence, sight distance availability, and street lighting presence. These findings can be reviewed in Section 5.2.

#### SECTION 5.0 - CROSSWALK AUDIT

GPI conducted a crosswalk inventory in Spring 2019 to identify areas throughout town where improvements to the pedestrian network were needed. Section 5.1 outlines the data collection methodology while Section 5.2 reports the findings of the inventory.







#### **IMPLEMENTATION EFFORTS**

Following an in-depth analysis of the data collected during the crosswalk inventory as well as taking into consideration pedestrian related crashes, community feedback and high demand areas within the pedestrian network, GPI identified and recommended several pedestrian safety enhancement projects throughout the Town of Needham. They are as follows:

PROJECT	WORK DESCRIPTION	SECTION
High Risk Crosswalk Locations	Eight high risk crosswalk locations were selected for accelerated safety improvements based on several criteria. Construction documents have been developed to provide Rectangular Rapid Flashing Beacons and other supplemental crossing enhancements at each of the eight locations.	6.1
Safety Zone Implementation	GPI identified 5 roadways segments that warranted further evaluation for the implementation of a safety zones. Safety zones are recommended to be implemented with appropriate signage, pedestrian crossing enhancements (RRFBs and continental crosswalks), and dedicated bicycle lanes.	6.2
Webster Street Safety Corridor	In an effort to slow traffic speeds and provide safer and more comfortable accommodations for pedestrian and bicyclists, it is recommended that a complete streets project along Webster Street be implemented.	6.3
Pavement Marking Annual Program	The Town of Needham should continue its practice of regular pavement marking updates. As crosswalks are refreshed, GPI recommends the Town transition to continental style crosswalks as they provide additional visibility to drivers.	6.4
Wheelchair Ramp Accessibility	Although ramp dimensions were not taken as part of this project to assess ADA compliancy, the availability of wheelchair ramps was documented. It is recommended to install wheelchair ramps at crosswalk locations currently lacking ramps to ensure accessibility throughout the pedestrian network (30 locations).	6.5
Traffic Sign Upgrade	It is recommended that the Town update traffic signs in poor condition or in non-conformance with MUTCD standards (total 23 signs). It is also recommended that pedestrian warning signage be installed at uncontrolled crossings lacking any signage to provide enhance visibility (38 at crosswalk sign assemblies and 50 advance warning sign assemblies).	6.6
Street Lighting at Uncontrolled Crosswalks	It is recommended that the Town install street lighting at uncontrolled crosswalks currently lacking any street lighting to enhance visibility during nighttime conditions (12 locations). It is recommended that future lighting installed at these locations be installed using the preferred FHWA lighting layout. In the future, should funding become available, it is recommended that the Town modify/add lighting at locations where existing lighting does not align with the preferred FHWA street lighting recommendations.	6.7
Crosswalk Installation along Highland Avenue	It is recommended that the Town of Needham consider installation of a marked crosswalk along Highland Avenue to service the pedestrian demand at this location. It is recommended that one high visibility crosswalk, centrally located between the two stairways, be installed in conjunction with curb extensions and an RRFB system. It should be noted that while the pedestrian volumes do not meet MUTCD pedestrian thresholds, the thresholds described in Section 4.3 would allow for the installation of a crosswalks at this location.	6.8
Dedham Avenue at Harris Avenue	Given the complex nature of this intersection, it is recommended that the Town implement short term improvements to enhance pedestrian access at this location. It is recommended that the Town consider a long term reconstruction project to address geoemetry issues.	6.9



#### SECTION 6.0 - IMPLEMENTATION

GPI identified and recommended several pedestrian safety enhancement projects throughout the Town of Needham. Section 6.0 describes each proposed implementation project in detail and provides spatial mapping for each topic. It is intended that each project improve upon the pedestrian network throughout the Town of Needham for years to come.

#### IMPORTANT NOTE: STREET LIGHTING



Adequate street lighting is critical to the effectiveness of a crossing location. Street lighting is often installed with the focus on motorists rather than the safety of the pedestrians. Sufficient lighting can drastically improve the pedestrian safety at a crosswalk by providing enhanced visibility in the nighttime context. The Town of Needham recently replaced all High Pressure Sodium light fixtures to LEDs. Following the completion of the LED replacement project GPI developed a Town wide Street Lighting Assessment which evaluated lighting levels along the Town's roadways and determined locations that may need additional lighting to fit the context of the roadway based on roadway classification and pedestrian activity levels.

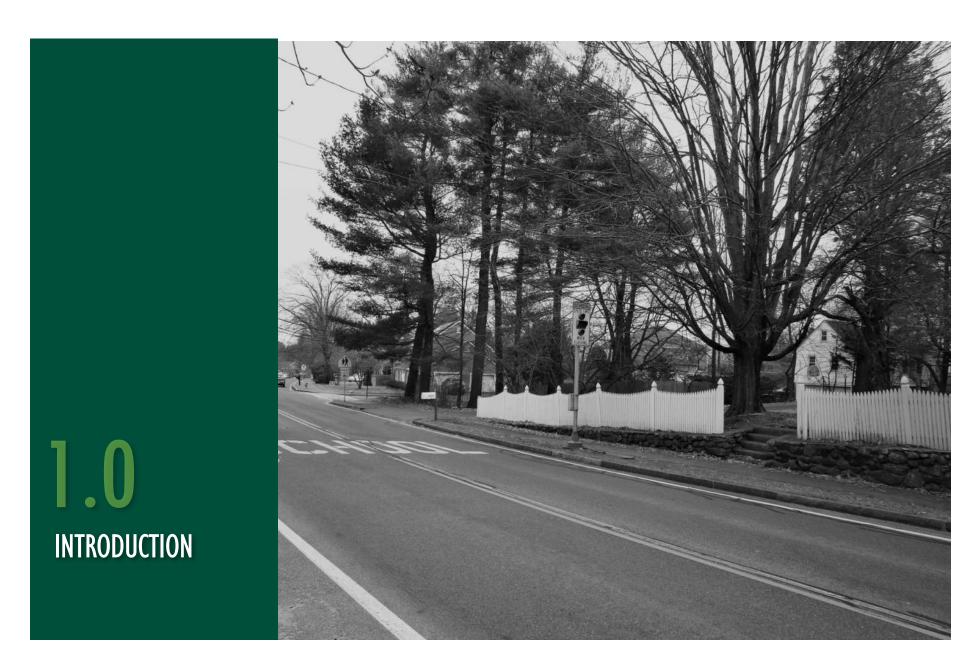
#### PEDESTRIAN CROSSING DESIGN GUIDANCE

GPI developed a toolbox as a reference for the Town when designing pedestrian crossings in the future. The toolbox describes several pedestrian enhancement treatments in terms of each treatment's objectives, advantages, disadvantages and approximate costs. Good engineering judgment shall be applied to all crosswalk enhancements and future installations. Some of the treatments include pavement markings, traffic signs, traffic calming devices, crossing beacons and pedestrian signals, accessibility treatments, street lighting, education and enforcement.

See **SECTION 7.0** to learn more about potential pedestrian crossing enhancement treatments the Town can implement at crosswalks.

It is our hope, that by utilizing this Report as a guideline to enhance and install crosswalk locations that the Town of Needham see a reduction in the number/severity of pedestrian related crashes, an increase in mobility and health amongst its residents, an improvement in walkability and accessibility for all its residents regardless of age, race, or socioeconomic status, and lastly, a sense of community.







## I.I INTRODUCTION TO THE PEDESTRIAN SAFETY AUDIT

As residents continue to voice concern over pedestrian safety throughout town, the Town of Needham has taken important steps to address such concerns. One of those important steps includes the development of a Town-wide Pedestrian Safety Audit to highlight high-risk pedestrian crossing locations in Needham, provide recommendations for potential pedestrian crossing treatments, and develop an implementation plan for future use as additional funding becomes available.

To accelerate the implementation of potential safety solutions, GPI completed an initial abbreviated Pedestrian Safety Audit to highlight the top 10 critical crosswalk locations in the Town of Needham based off several criteria such as roadway classification, traffic speeds, proximity to schools, transit, religious centers, parks, and civic destinations, adequacy of existing street lighting, the occurrence of pedestrian related collisions and community referenced locations. The abbreviated Pedestrian Safety Audit was completed in Fall 2018 and is included in the Appendix of this report. Based on the initial recommendations, 8 locations have been selected and GPI is currently developing construction documents for the installation of several Rectangular Rapid Flashing Beacons (RRFBs) and other supplemental crossing treatments.

This report builds on those efforts, provides a town-wide crosswalk inventory, identifies locations for improvement and provides potential implementation projects. The report also explores implementing Safety Speed Zones in areas where vulnerable users may be present, reviews the value of adopting a town-wide 25 mph prima facie speed limit, and establishes criteria for installing new pedestrian crossings.





### 1.2 AUDIT GOALS

#### SAFETY

The main goal of the pedestrian safety audit is to identify top priority crossing locations throughout town and implement safety related measures to reduce the number/severity of pedestrian related collisions. The recommended improvements will also strive to decrease vehicle speeds within high priority locations. Providing pedestrians with safe walking facilities increases the level of comfort and ensures a high quality of life for both residents and visitors of Needham.

#### HEALTH

By providing safe pedestrian facilities the Town is promoting walking and thus an increase in mobility and health. This is important for young children to develop healthy lifestyle habits as well as for the older community for which walking is a valuable, low impact form of exercise.

#### **EQUITY**

Improving pedestrian facilities improves the walkability and accessibility of the Town for all users regardless of age, race, or socioeconomic status. An inclusive pedestrian network factors in underlying socioeconomic (income and automobile availability) and health (disabilities) factors to provide facilities where they may be needed most. Providing a more robust, safe pedestrian network throughout town can increase mobility not only through walking but will also allow for greater access to public transportation via multiple MBTA commuter rail

stations. Public transportation provides a low-cost travel method that allows for personal economic opportunity and protects mobility in heavily congested areas.

#### COMMUNITY

A safe and connected pedestrian network fosters a sustainable community by increasing alternative transportation modes, stimulating human interaction and supporting the economy. Safe walking access to schools, downtown retail areas, recreation and parks fosters a more livable community by bringing people together and creating a sense of place.

## 1.3 REPORT CONTENTS

**Section 2.0 – The Planning Process**: Briefly discusses project management and breaks down data received from the community engagement efforts.

**Section 3.0 – Existing Conditions:** This section describes existing demographics, commuting trends, the roadway/transit network, traffic speeds/volumes, pedestrian related crashes, pedestrian generators, and street lighting.

**Section 4.0 – Policy Recommendations**: This section provides recommendations regarding lowering the town wide prima facie speed limit in thickly settled areas from 30 miles per hour to 25 miles per hour as well as identifying roadway segments that would benefit from the implementation of Safety Speed Zones (20 mph). This section also provides a framework for establishing a crosswalk implementation policy.

**Section 5.0 – Pedestrian Network Assessment and Needs**: This section breaks down the methodology and findings from a town-wide crosswalk inventory. It identifies crucial areas where pedestrian crossing treatments are needed most as well as identifies town wide improvement efforts that can be implemented over time as funding becomes available.

**Section 6.0 – Implementation**: This section identifies several potential implementation projects based on the findings from the crosswalk inventory.

**Section 7.0 – Pedestrian Crossing Design Guidance**: This section acts as a toolkit and briefly identifies advantages/disadvantages of several pedestrian crossing treatments that can be implemented at crosswalks throughout town.





THE PLANNING PROCESS



# 2.1 PROJECT MANAGEMENT

The project management team consisted of representatives from the Town of Needham's Public Works Department, and the consulting team, Greenman-Pedersen, Inc. (GPI). The project management team worked together throughout the 6-month project to guide the technical work and review project deliverables.

# 2.2 COMMUNITY ENGAGEMENT

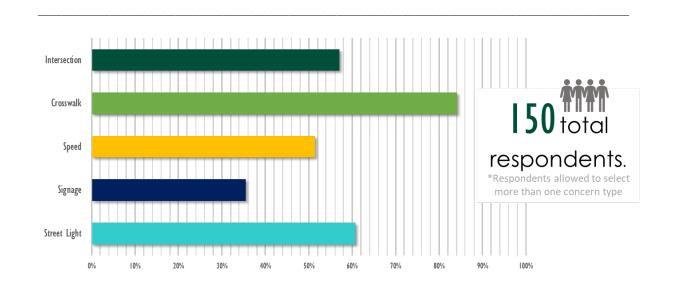
The most successful planning and design efforts result from an open and engaging public process. Involving the public early in the planning process encourages participation and develops a sense of engagement and cooperation not found in a traditional linear design approach. Public acceptance is critical to project success and facilitates approvals by governing bodies.

Preceding the engineering and design efforts, the Town's Traffic Management Advisory Committee (TMAC) heard many community members voice concerns related to pedestrian safety. Citizens had the ability to submit traffic concerns to the TMAC via an online form. These submittals have been reviewed, summarized and tabulated to

develop a database of public concerns and help prioritize safety improvement efforts. Based on approximately 150 completed forms, approximately 85% of respondents indicated that safety at crosswalks was the primary concern, followed by 60% of respondents indicating that street lighting was an issue in Needham. Many respondents indicated that pedestrian safety risk is increased during school arrival and dismissal times when children are walking to and from school as well as night-time hours, specifically in inclement weather (rain/snow/ice).

A high density of concerns focused around the high school as well as along walking routes to other Needham Public Schools including Newman Elementary, Pollard Middle, and Broadmeadow Elementary. Locations identified by concerned citizens were identified as top priority during the preliminary pedestrian safety audit.

Citizens also provided insight to potential safety measures they'd like to see implemented. Many refenced high-visibility crosswalks, rectangular rapid flashing beacons, and increased street lighting- all of which will be included in a pedestrian crossing toolbox which the Town can utilize to implement safety improvement efforts over time.





"A town that values the health and safety of its citizens can take small but important steps for pedestrians and the community as a whole."





3.0 EXISTING CONDITIONS



# NEEDHAM BY THE NUMBERS

Needham, Massachusetts, conveintently located just 10 miles southwest of Boston is a lively community comprised of approximately 30,000 residents according to the latest 2010 census data.

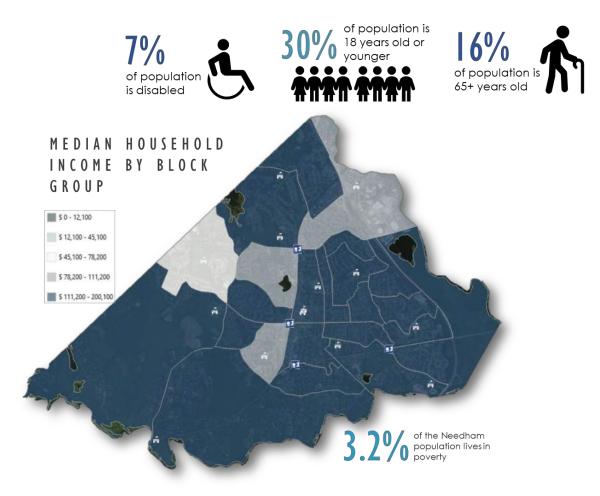
Needham is a predominately white community (approximately 91%). The remaining racial makeup of the town is 1% African American, 0.04% American Indian and Alaska Native, 6.1% Asian, 0.03% Native Hawaiian and Other Pacific Islander, 0.44% Other Races, and 1.62% Two or More Races.

The median age in Needham is 43 years old. Needham has a significant percentage of youth (under 18 years old) and senior citizens (65 years and older), comprising approximately 30% and 16% of the community, respectively. Pedestrian safety improvements should be focused on providing safe and essential connections for people of all ages.

According to the American Community Survey 2012-2016 5-Year Estimates, the median

household income in Needham is \$139,477 compared to a median household income of \$70,954 for the Commonwealth of Massachusetts and a U.S. median household income of \$55,322. Appoximatelyy 3.2% of the population in Needham lives below the poverty line. All improvements should be implemented with equity in mind, prioritizing efforts in locations where citizens rely most on sidewalks and crosswalks as well as public transportation and commuter rail stations, allowing broadened opportunities for economic growth.

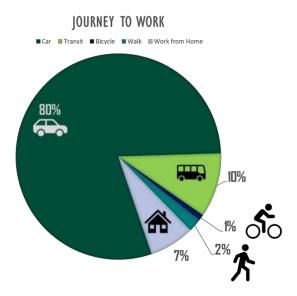
Approximately 7.0% of the Needham population has a reported disability. As such, pedestrian related safety improvements must meet accessibility standards and be well-maintained to facilitate movement for those who rely on wheelchairs and other mobility devices.





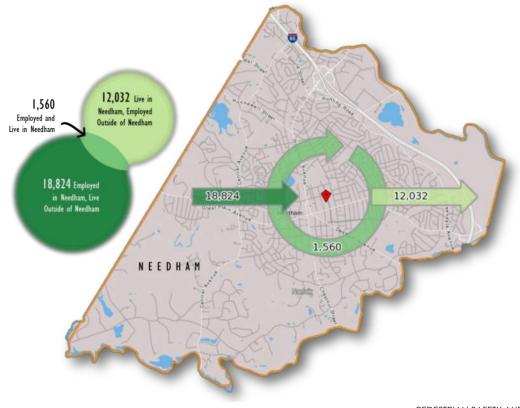
Walking has always been an affordable means of commuting to and from work/school and offers many benefits to a community including health, safety, environmental, and economic benefits.

Travel by residents in Needham is currently auto dominated, with approximately 80% of residents traveling to work by means of a car, truck, or van, according to commuting data presented in the 2012-2016 American Community Survey 5-Year Estimate. About 10% of residents utilize public transportation, most of which are likely commuters using the MBTA commuter rail service to and from Boston. Approximately 2% of residents walk to work and another 1% bike to work, while about 7% of residents in Needham work from home.



WalkScore is a private company that provides walkability and apartment search tools through a website and mobile applications. Its flagship product is a large scale, public access walkability index that assigns a numerical walkability score to any address in the United States. The tool measures walkability on a rating from 0 to 100 (100 being optimal) based on walking routes to destinations such as grocery stores, schools, parks, restaurants and retail. According to WalkScore ratings, the Town of Needham has a WalkScore rating of 41, a TransitScore rating of 22 and a BikeScore rating of 38. For reference, Boston has a WalkScore rating of 82 while surrounding communities such as Wellesley, Dedham and Newton have WalkScore ratings of 40, 37, and 53 respectively. The average WalkScore rating in Massachusetts is 48.

OnTheMap data from the United State Censes Bureau (Center for Economic Studies) which documents Longitudinal Employer-Household Dynamics was researched to characterize workforce dynamics for the Town of Needham. It is interesting to note that Needham had a net inflow of employees. There is a significant share of outbound workers, but there are significantly more inbound employees. Promoting walkability and alternative modes of transportation is critical to attracting more business to Needham.





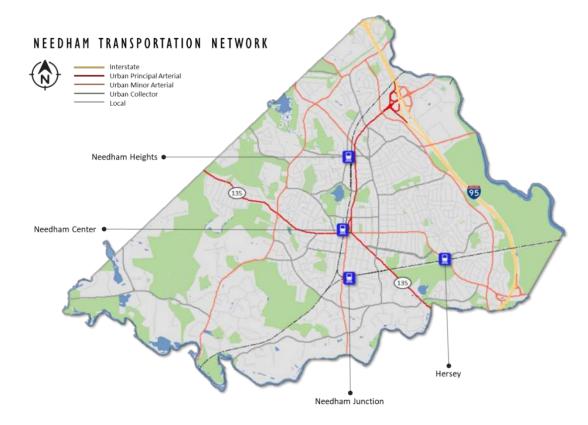
## 3.1 ROADWAY/TRANSIT NETWORK

Needham is well integrated into the regional roadway network. Interstate 95, the main interstate highway along the east coast, provides four exits which service the Town of Needham. Massachusetts Route 135 (Great Plain Avenue/Dedham Avenue) also passes through Needham providing regional access to Route 20 in Northborough to the west to Interstate 95 in Dedham to the east.

Needham owns and maintains approximately 123 centerline roadway miles with the following classification breakdown: 4% Urban Principal Arterial, 11% Urban Minor Arterial, 17% Urban Collector, and 68% Local Roadway. These roadway classifications function together to serve the needs of the traveling public. The functional classification of a roadway limits its design. For example, principal arterials and interstate highways are meant to service high volumes of traffic at moderate to high speeds. Therefore, design elements such as traffic calming measures would deter from that function and thus are not applicable on those roadways. It is important that pedestrian related design elements be implemented in ways which foster sustainable safety, i.e. implementing measures on roadways most suitable for pedestrian travel and those that carry the larger walking demands. The Town is recommended to reference the 2016 Traffic Calming Guidelines prepared by the Institute of

Transportation Engineers New England Section Technical Committee (NEITE), which is an update to the originally prepared guidelines published in November 2000. This document introduces a wide array of traffic calming techniques to varying conditions as well as provides guidance to the applicability of said traffic calming techniques. GPI recommends the Town utilize this document when exploring traffic calming measures to attain information regarding design considerations and typical context uses.

Needham is well integrated into the MBTA's commuter rail system, with 10% of the population commuting to work via public transportation. There are four commuter rail stops in Needham including Needham Heights, Needham Center, Needham Junction, and Hersey Station. The MBTA commuter Rail provides an economic mode of transportation, especially for those commuting to and from Boston for work. It is important to note that most transit trips start with a walking trip. Therefore, incorporating/enhancing pedestrian safety in the vicinity of these commuter rail stations is crucial to a successful public transportation system and encourages the use of alternative modes of travel.

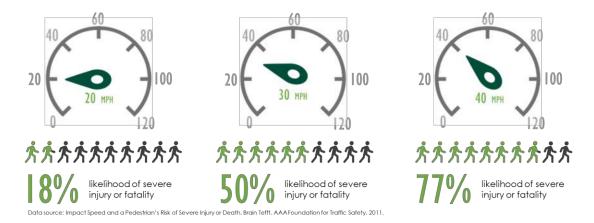


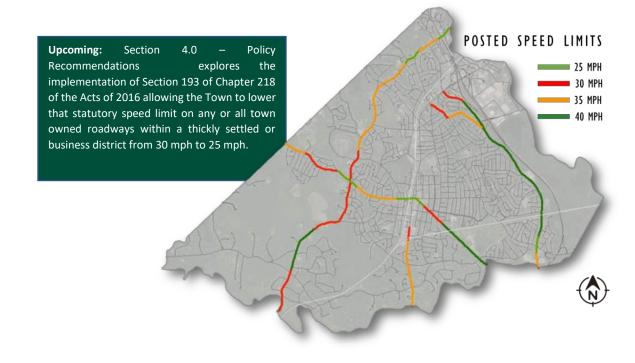


#### 3.2 TRAFFIC SPEEDS/VOLUMES

Speed can have a detrimental effect on pedestrian safety. The faster a vehicle strikes a pedestrian, the more likely that pedestrian will sustain a severe injury or the collision will result in fatality. Statistics highlighted in "Impact Speed and Pedestrian's Risk of Severe Injury or Death", published by Brian Tefft with the AAA Foundation for Traffic Safety, indicates that if a vehicle were to strike a pedestrian at 40 mph, there is a 77% likelihood that a pedestrian will suffer from a severe injury or death. Conversely, if a vehicle were to strike a pedestrian traveling at 25 mph, there would be an 18% likelihood that the pedestrian would suffer from a severe injury or death. These statistics depict the importance of slowing down motor vehicles, specifically in the vicinity of a pedestrian crossing. Therefore, uncontrolled crosswalks, specifically those at midblock locations, in higher speed zones should be given priority to accelerated implementation.

Road speeds are also associated with the functional classification of a roadway, or the desired purpose or use of the roadway. Arterial and collector roadways typically service a greater number of vehicles throughout the day and at more moderately paced speeds in comparison to local roadways. Existing speed limit data was collected from the Town of Needham and the Massachusetts Department of Transportation to display town wide speeds on arterial roadways.







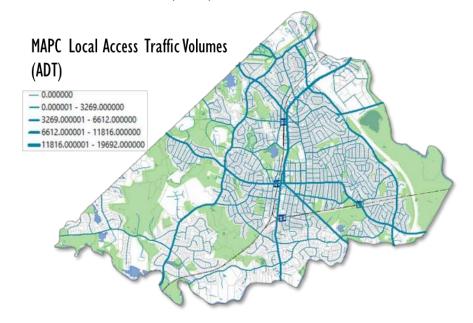
As part of the pedestrian safety audit, GPI conducted a data collection program to collect traffic volumes and speeds at specific locations where vulnerable pedestrians may be present as identified in the preliminary audit report. Automatic Traffic Recorder (ATR) counts were conducted on Wednesday, November 28, 2018 and Thursday November 29, 2018 at the following locations:

- 1. Highland Avenue south of Rosemary Street (between stairs to Memorial Field)
- 2.642 Webster Street south of Brookline Street
- 3.900 Greendale Avenue north of Enslin Road
- 4. Dedham Avenue east of School Street
- Great Plain Avenue just east of Ridgeway Avenue

Table 1 provides a breakdown of the observed speeds and volumes. As seen in Table 1, the average speeds observed for all five locations were less than the posted speed limit while the 85<sup>th</sup> percentile speeds ranged from 1 mph to 5 mph over the posted speed limit.

**Table 1.** Count/Speed Program Results

Given the extent of scope, additional traffic volume and speed data were researched via means of the MassDOT Transportation Management System as well as the Metropolitan Area Planning Council (MAPC) Local Access Dataset which is a tool developed by the MAPC to provide a quantitative estimate of current or potential usability for walkers and bikers. Traffic volumes, where available, provide an important factor in assigning a network utility score for each roadway segment. As expected, roadways with arterial classification carry a higher volume of vehicles while collectors and local roadways carry lower volumes.



Count Location	Direction: NB/EB			Direction: SB/WB				Total	
Thursday, November 29, 2018	Posted Speed Limit (mph)	Average Speed (mph)	85th Percentile Speed (mph)	Volume (vpd)	Posted Speed Limit (mph)	Average Speed (mph)	85th Percentile Speed (mph)	Volume (vpd)	Volume (vpd)
Highland Avenue south of Rosemary Street (between stairs)	30	25	31	5995	30	24	30	6835	12830
642 Webster Street south of Brookline Street	30	28	32	5794	30	26	31	5685	11479
900 Greendale Avenue north of Enslin Road	40	35	38	3370	40	37	42	4100	7470
Dedham Avenue east of School Street	30	31	35	3988	30	28	32	3814	7802
Great Plain Avenue just east of Ridgeway Avenue	30	28	33	4296	30	27	32	4583	8879

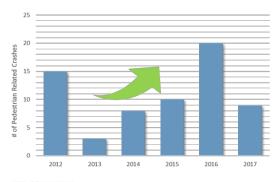


#### 3.3 PEDESTRIAN RELATED CRASHES

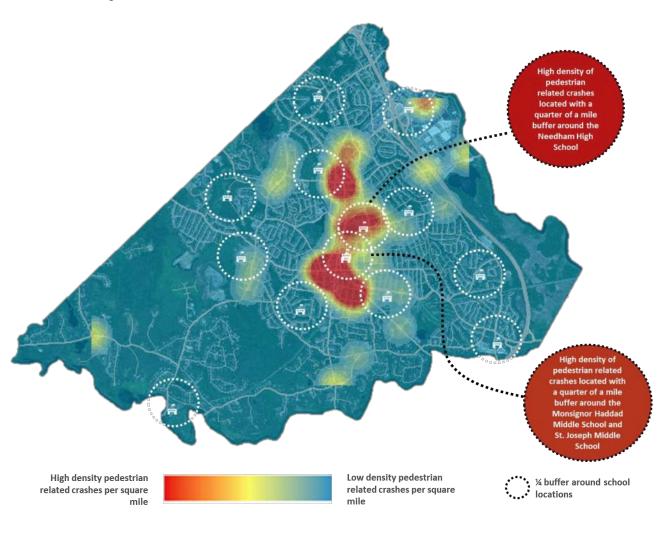
A primary goal of the pedestrian safety audit is to **reduce** the number and severity of crashes involving pedestrians.

Collision data have been researched for the latest available six-year period (2012-2017) on file with MassDOT via means of the MassDOT Crash Portal. Within the complete six-year study period, approximately 2,005 collisions were reported in Needham, excluding collisions which occurred on interstate highways (I-95) in Town. Of the total 2,315 reported collisions, 65 were related to pedestrians or approximately 2.8% of the Town's crashes. A total of 482 collisions resulted in injury, 11% of which (51 collisions) were pedestrian related, indicating that pedestrians face disproportionately higher injury risks than motorists.

Pedestrian related collisions in Needham doubled from 2015 to 2016 and have been rising steadily since 2013. Nationwide, the number of students walking to school has increased and could explain the significant increase in pedestrian related collisions in Needham as well.



All pedestrian related collisions were geolocated and a heat map was applied to allow for easy visualization of the data. Red areas indicate locations where pedestrian related crashes are more likely to occur based on data trends while blue areas indicate locations where pedestrian related crashes are less likely to occur. The map suggests that pedestrian related collisions are most likely in the downtown area (specifically along the Highland Avenue corridor and within close proximity to commuter rail stops) as well as in the vicinity of the Needham High School along the Webster Street corridor.





#### 3.4 EXISTING STREET LIGHTING

Adequate street lighting is critical to the effectiveness of a crossing location. Street lighting is often installed more so with the focus on motorists rather than the safety of the pedestrians. Sufficient lighting can drastically improve the pedestrian safety at a crosswalk while also providing comfort, safety and security.

Street lighting is of specific concern in Needham as community concerns collected by the TMAC indicated that approximately 58% of respondents stated that pedestrian safety is especially detrimental during nighttime conditions or dusk/dawn. Many respondents stated that after school activities and sporting events are often let out after sunset when crossing guards are no longer on duty, increasing safety risks for students walking home from school especially in the winter months. During the crosswalk inventory, all uncontrolled crossings were evaluated for existing street lighting and whether it conformed to FHWA recommendations which are described in detail in Section 7.0 of this report.

The crash data collected from the MassDOT Crash Portal also indicates that lighting may be insufficient. Approximately 26% of all vehicle collisions in the Town of Needham from 2012-2016 were reported to have occurred during night time hours. Further analysis of the pedestrian related collisions indicates that 27% occurred during night hours.

The Town of Needham has been proactive in improving their nighttime context through means of upgraded streetlighting. In an effort to reduce energy consumption, greenhouse gas emissions and maintenance costs, the Town investigated the potential of a LED Conversion Project. Prior to a town-wide conversion effort, the Town conducted a LED Pilot Project in May of 2017 in which three streets (Stevens Road, Pinewood Road and Eaton Road) received LED lighting with different lighting temperatures and one street, Coolidge Avenue, received new High-Pressure Sodium lighting. Residents were asked to visit all four streets and indicate their lighting preference through an online survey. According to results posted on the Town's website, both residents and members of the Select Board, expressed a preference to install LED lighting fixtures in comparison to High-Pressure Sodium lighting. Following general acceptance from residents via the pilot program, the Town moved forward with a town wide LED Conversion Project that was completed in June 2019.

Following the completion of the LED Conversion Project, GPI researched and summarized industry recommended lighting levels based on several lighting publications for the Town to use as a tool for future street light installations as part of new construction. GPI also evaluated the expected lighting levels from the recently converted lights along the Town's roadways based on the manufacturer's specifications. A GIS map was then developed that depicts all the LED light fixtures and provides anticipated lighting footprints based on the Wattage of each different type of LED bulb. The map clearly illustrates lighted roadway segments versus dark roadway segments, allowing planners and city officials to quickly determine locations that may need additional lighting to fit the context of the roadway based on street classification and pedestrian activity levels. Below is an index of the overall map focusing on a particular neighborhood. Readers are encouraged to read through the *Town Wide LED Streetlighting Assessment* report developed by GPI for more information regarding street lighting.









# 4.1 SPEED LIMITS: IS 25 THE NEW 30?

New legislation signed by Governor Charlie Baker allows municipalities to reduce the statutory speed limit from 30 to 25 miles per hour on any or all local, non-state roadways in a thickly settled or business district. This legislation also allows municipalities to establish regulatory 20 mph safety zones in areas where vulnerable road users are likely to be present such as parks, playgrounds, senior citizen housing, hospitals and medical facilities, high schools and higher education centers, and daycare facilities. The recent passage of Sections 193 and 194 of Chapter 218 of the Acts of 2016 regarding changes to the Speed Limit Regulations under Chapter 90, Sections 17 and 18, was signed on August 9, 2016 and became effective on November 7, 2016.

What is a statutory speed limit? A statutory speed limit exists in the absence of a special speed regulation and official posted speed limit. Per MGL c. 90 § 17C statutory speed limits include the following:

- 20 MPH School Zone
- 30 MPH Thickly Settled or Business District for at least 1/8 of a mile
- 40 MPH Undivided way outside of a thickly settled or business district for at least a ¼ of a mile

50 MPH – Divided way outside of a thickly settled or business district for at least ¼ of a mile

What is a thickly settled or business district? Massachusetts state law defines a thickly settled or business district as "the territory contiguous to any way which is built up with structures devoted to business, or the territory contiguous to where dwelling houses are situated at such distances as will average less than two hundred feet between them for a distance of a quarter of a mile or over".

How are speed limits generally determined? Before the implementation of the new State legislation, speed limits were determined either by costly speed studies which take into account the 85<sup>th</sup> percentile speed rather than the general characteristics of a roadway or they are statutory speed limits which are those set by the State as appropriate speeds for that general type of roadway. In some cases, 30 miles per hour may be too high for some roadways given their land use context which jeopardizes the safety of vulnerable road users such as pedestrians and bicyclists.

As previously stated, speed can have a detrimental effect on pedestrian safety. The faster at which a vehicle strikes a pedestrian, the more likely that pedestrian will sustain a severe injury or result in fatality. According to the community engagement results, approximately 52% of respondents reported speeding as a point of concern in Needham. The act of lowering the speed limit from 30 mph to 25 mph would set the precedence to the community that the Town is prioritizing safety over speed. However, how effective is lowering the speed limit by 5 mph and does the Town have the available resources to enforce the change? The Town of Needham investigated the possibility of opting into the program and lowering the statutory speed limit on any or all town owned roadways within a thickly settled area or business district from 30 mph to 25 mph.

#### The Effects of Lowering the Speed Limit – What does the research say?

When considering lowering the speed limit, it is important to answer two questions: what effect does lowering the speed limit by 5 mph have on driver compliance and what is the effect on the number and severity of collisions? GPI conducted an extensive research effort to develop a sustainable recommendation to the Town.

#### Case Study: Boston, Massachusetts

On January 9, 2017, the City of Boston's new prima-facia speed limit became 25 mph (from 30 mph) following the recent passage of new legislation with the intent of eliminating traffic crashes that result in death and serious injuries as stated in the city's Vision Zero action plan. Following the implementation, the Insurance Institute for Highway Safety (IIHS) conducted a study to analyze vehicle speeds in Boston before and after the lower limit took effect. The study, released in August 2018, compared Boston's vehicle speeds both before and after the change and compared them to control sites in Providence, Rhode Island where the speed limit remained the same at 30



mph. The study sites in both Boston and Providence included arterials, collectors and local roads and were all similar in that they had no more than one travel lane per direction and were located away from intersections on relatively flat, straight roadway segments and at least a half-mile away from any school or speed feedback sign. The study concluded that the 85th percentile speed remained unchanged at 31 mph before and after the reduced default speed limit took effect. *This* indicates that 85% of drivers are traveling at or below 31 mph and suggests that driver compliance has decreased (meaning a greater number of motorists are now violating the speed limit), and actual travel speeds have remained relatively unchanged since the implementation of the new speed limit.

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#### **Case Study: New York City**

New York City implemented a 25-mph default speed limit law on November 7, 2014 as part of the City's Vision Zero action plan. New York City's Vision Zero initiative states that driving at or below 25-mph decreases stopping distance, thus giving drivers and pedestrians more time to see each other and react. The vehicle stopping distance when traveling at 25-mph improves by 45 feet (23%) in comparison to the vehicle stopping distance of a vehicle traveling at 30-mph, thus providing more time for drivers to avoid a collision. This statement only holds true if the motorist is obeying the speed limit and is actually traveling at 25-mph. Therefore, to enforce the

new speed limits, NYC has implemented Automated Speed Enforcement to deter speeding. Automated Speed Enforcement was first tested in school zones throughout NYC. Speeding during school hours at the fixed camera locations dropped more than 63% and injuries recorded at these locations dropped over 14%, indicating that with proper enforcement, driver behavior can be modified, and the number and severity of collisions can be reduced.

#### **Case Study: Chicago**

Although Chicago's default speed limit is 30-mph, the City has also implemented Automated Speed Enforcement within its 20-mph school zones. Since implementation, severe crashes have decreased 11%. Within one week of camera installation, average speeds decreased 13% and by the end of the second month, violations had decreased 53%, once again proving that with proper enforcement, speeds are likely to decrease.

\_\_\_\_\_\_

#### **Case Study: Federal Highway Administration**

Publication No. FHWA-RD 9 7-084, Effects of Raising and Lowering Speed Limits on Selected Roadway Sections, as published by the Federal Highway Administration (FHWA) in January 1997 was produced to determine the effects of raising and lowering speed limits on driver behavior for urban and rural nonlimited access highways. The study collected data at 100 sites on nonlimited access highways which consisted of 172 miles where speed limits were either lowered or raised as well as 83 comparison sites which consisted of 132 miles where posted speed limits remained as is across 22 states. Variations in the speed limits ranged from lowering the speed limit by 5, 10, 15, or 20 miles per hour to raising the speed limit from 5, 10, or 15 miles per hour.

Ultimately, the study showed that there is little change in the driving speeds after a lower speed sign is posted. The average change in any of the percentile speeds at the experimental sites was less than 1.5 miles per hour regardless of whether the speed limit was raised or lowered. Even though lowering the speed limits at the study sites had a minor effect on vehicle speeds, driver violations of the speed limit increased. The study reported that lowering speed limits provides a noncompliance rate of approximately 67%, indicating that enforcement is crucial to reflect an actual change in driver behavior.







#### Recommendation to the Town of Needham

Given the passage of new legislation that allows municipalities to reduce the statutory speed limit from 30 to 25 miles per hour on any or all local, non-state roadways in a thickly settled or business district, the Town of Needham expressed interest in exploring the possibility of implementing a lower 25 mph speed limit. Supporting factors include community level support, adjacent city opt-in and increased pedestrian survival rates at lower speeds in the event of vehicle-pedestrian crashes. According to the research, opposing factors include very minor effects on vehicle speeds and a decrease in driver compliance.

Although the results from the Boston case study show promising figures in the reduction of the odds of motorists exceeding 35 miles per hour, the 85th percentile speeds remained the same at 31 mph. Studies show that there is little change in driving speeds after a lower speed limit sign is posted mostly because drivers are generally influenced by the roadway conditions and typically travel at a rate of speed they perceive to fit the context of the road. In the suburb of Needham, some roadways can be perceived by the motorist as reasonable to be exceeding 30 mph, never mind 25 mph. Therefore, lowering the speed limit may in fact lead to a greater disparity in vehicle travel speeds which could result in more vehicle conflicts. A major component in combating speeds on these types of roadways is to change the context of the roadway through traffic calming efforts where the physical characteristics of the roadway alter the motorist's

perception of what is a reasonable speed to travel and enforcement.

It appears most cities who have adopted a 25-mph speed limit have done so on the basis of potential crash reduction rather than actual travel speed reduction. Those who have experienced actual travel speed reduction with the lowering of the speed limit have done so through proper enforcement techniques such as automated enforcement cameras which require extensive resources and funding allocations. In the current funding environment, it would likely be difficult for local police to effectively enforce a 25-mph statutory speed limit town wide.

At this time, GPI recommends no change to the town-wide statutory speed limit of 30 miles per hour but rather to focus on implementing 20-mph speed safety zones in areas where vulnerable users may be present and enforcement efforts can be targeted. Should the implementation of safety speed zones deem successful (i.e. reduction in travel speeds and collisions) through proper enforcement, the Town should revisit the topic and allocate additional funding to enforcement efforts and educational campaigns.

At this time, GPI recommends no change to the town-wide statutory speed limit of 30 miles per hour, but rather to focus on implementing 20-mph speed safety zones in areas where vulnerable users may be present and enforcement efforts can be targeted.



# 4.2 IMPLEMENTING SPEED SAFETY ZONES

What is a Safety Zone Speed Limit? Per Massachusetts State Law, Safety Zones are regulatory speed limits set at 20 miles per hour intended to be used in areas where vulnerable road users are likely to be present. Vulnerable road users include pedestrians and bicyclists especially children, people with disabilities and the elderly. As previously noted, Needham has a significant percentage of youth (under 18 years old) and senior citizens (65 years and older), comprising of approximately 30% and 16% of the community, respectively. Approximately 7.0% of the Needham population has a reported disability.

What are the requirements to establish a Safety Zone? MassDOT has identified the following minimum criteria to establish a safety zone:

- The street should be adjacent to a land use that is likely to attract vulnerable road users.
- The Safety Zone should contain one or more areas that have potential conflicts between motor vehicles and vulnerable road users that warrant a reduction in speeds such as crosswalks, driveways or side streets.
- The minimum length of the Safety Zone should be at least ¼ of a mile and it

should not extend more than 500' beyond a side street unless an applicable land use continues along the adjacent block.

Where should Needham implement Safety Zones? As State Law suggests, Safety Zones should be strategically implemented in areas where vulnerable road users are likely to be present. Pedestrian generators analyzed included facilities such as parks and playgrounds, senior citizen housing and centers, hospitals or other medical facilities, high school and higher education centers, transit centers and daycare facilities- all of which represent areas where children, elderly and persons with disabilities may frequent. It should be noted that *Safety Zones shall not be used in place of School Zones*. Utilizing the GIS platform, pedestrian generators were mapped and a ¼ mile buffer, utilizing the existing street network, was applied to each facility. This allowed GPI's planners and engineers to quickly identify street segments in which safety zones are warranted based on adjacent land use, number of access points along a given segment (including crosswalks, driveways and side streets), and segment length. In total, GPI identified 5 roadways segments that warranted further evaluation for the implementation of a safety zone. These are listed in Table 2 and can be graphically seen on the following pages.

Following implementation, the Town should conduct speed studies to measure driver compliance. Should the speed studies show poor compliance, additional safety improvements, such as traffic calming measures, may be warranted.

**Table 2. Potential Safety Zones** 

Safety Zone Identifier	Safety Zone Location Description
1	Hillside Avenue (Approx. 100 feet south of Webster Street to Approx. 150 feet south of Pine Groove Street) near Cricket Field
2	Rosemary Street (Tilotson Road to Approx. 100 feet west of Highland Avenue) near Rosemary Recreation Complex/ Rosemary Lake/ Pool
3	Webster Street (Rosemary Street to May Street) near Needham High School
4	Beaufort Avenue (Nichols Road to Mt. Vernon Avenue) near Perry Park
5	Great Plain Avenue (Harris Avenue to Elmwood Road) near Hersey MBTA Train Station



What materials are required to implement a Safety Zone? Safety Zone speed limits, according to new Massachusetts law, are the only regulatory speed limits in which municipalities can adopt without prior consent from MassDOT. Safety Zones proposed on State Highway roadways require review and approval by MassDOT. As referenced in MassDOT document, "Speed Limits: Frequently Asked Questions," Safety Zones should be designated by a MA-R2-8 (Safety Zone Speed Limit 20) sign to be erected at the beginning of the zone for each direction and terminated with either a R2-1 (Speed Limit Sign) corresponding to the regulatory speed limit when a legal Special Speed Regulation is present, or more likely, a MA-R2-7 (End Speed Zone) sign in areas where there is no current Special Speed Regulation.



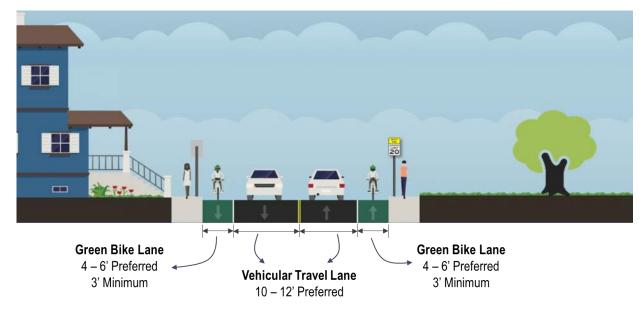




GPI also recommends that uncontrolled crosswalks falling within a safety zone be enhanced with a Rectangular Rapid Flashing Beacon and be designated by a continental style crosswalk for greater visibility.

In addition to signage, *it is recommended that the Town stripe roadway segments within Safety Zones to provide green-colored pavement shoulders which can be used to designate bicycle travel*. Colored pavement within a bicycle lane increases the visibility of bicyclists, discourages illegal parking in bike lanes, increases motorist yielding behavior and identifies potential areas of conflict. The proposed colored pavement will also promote the multi-modal nature of the Safety Zone and provide contrast to motorists to indicate they are entering a "sensitive" roadway context. Industry standards prefer bike lanes of 4-6 feet in width. In areas where these widths cannot be accommodated, it is acceptable for Needham to install minimum 3-foot bike lanes on low speed, low volume roadways. If a 3-foot bike lane cannot be accommodated due to the existing right-of-way, it is recommended that white edge lines be installed to designate shoulders. Figure 1 depicts a typical Safety Zone cross section that the Town of Needham can implement towards future cases.

Figure 1. Typical Safety Zone Cross Section



Following is a breakdown of each proposed safety zone including attributes such as length, adjacent pedestrian generators, existing speed and volume data (if available), the need for MassDOT approval (if applicable) and approximate cost to implement. Approximate cross sections and cost estimates are provided for each safety zone.







#### HILLSIDE AVENUE NEAR CRICKET FIELD



Hillside Avenue near Cricket Field (Approximately 100 feet south of Webster Street to approximate 150 feet south of Pine Groove Street)						
Length of Segment	1,320 feet (0.25miles)					
Adjacent Land Use	Cricket Field (Recreational), Residential					
Number of Crosswalks along Segment	1 Uncontrolled Crosswalk					
Traffic Volumes (if available)	3,060 vpd (2012-MAPC Local Access Dataset)					
Speed Limit	30 mph (prima facie)					
Roadway Classification	Urban Collector					
On State Highway?	No					
MassDOT Approval Required?	No					

#### Warrants

- 1. The street is adjacent to a land use that is likely to attract vulnerable road users.
- 2. The Safety Zone contains one or more areas that have potential conflicts between motor vehicles and vulnerable road users that warrant a reduction in speeds such as crosswalks, driveways or side streets.

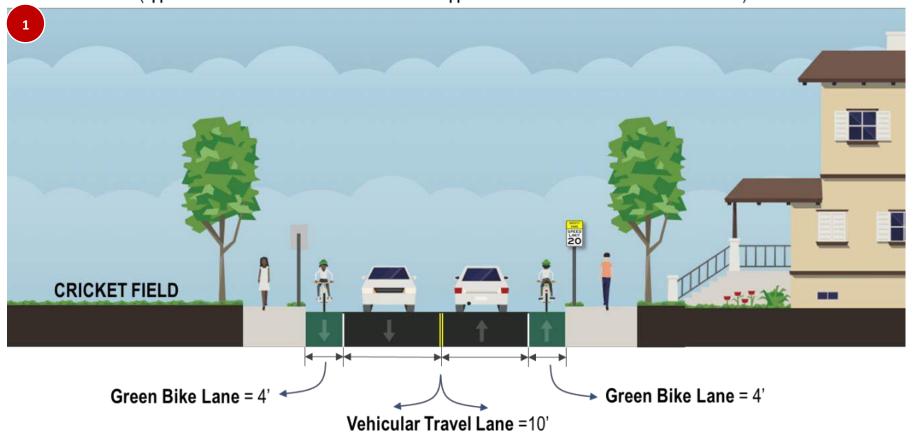
Yes

Yes

Yes



## Hillside Avenue (Approx. 100 feet south of Webster Street to Approx. 150 feet south of Pine Groove Street) near Cricket Field



The cross section depicted above can be applied along the entire Safety Zone segment on Hillside Avenue. It is recommended that the crosswalk just south of Sunnyside Road be refreshed with a continental style crosswalk and an RRFB be installed for enhanced visibility.



SAFETY ZONE

#### Hillside Avenue

Approx. 100 feet south of Webster Street to Approx. 150 feet south of Pine Groove Street (near Cricket Field)

Length: 1320 Feet

		Quantity	Unit	Unit Pri	ce	Tota	al Cost
Pavement Markings	Green Bike Area	10560	SF	\$	5.00	\$	52,800.00
	White Edge Lines	2640	LF	\$	1.50	\$	3,960.00
	Double Yellow Line	2640	LF	\$	1.50	\$	3,960.00
	Bike Symbols (1 Bike Lane Symbol = 15 SF)	90	SF	\$	6.50	\$	585.00
	High Visibility Continental Crosswalk	90	SF	\$	3.00	\$	270.00
						\$	-
Signs	MA-R2-7 (5 sf Each)	10	SF	\$	11.00	\$	110.00
	MA-R2-8 (5 sf each)	10	SF	\$	11.00	\$	110.00
						\$	-
Posts	P-5 Channel Posts	4	Each	\$	125.00	\$	500.00
						\$	-
Beacons	Rectangular Rapid Flashing Beacon System	1	Each	\$ 2	0,500.00	\$	20,500.00

Location #1 Total =	\$	82,795.00
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#### ROSEMARY STREET (TILOTSONTO APPROX. 100 FT WEST OF HIGHLAND AVENUE) NEAR ROSEMARY LAKE



Rosemary Street near Rosemary Lake / Recreation Complex/Pool (Tilotson Road to approx. 100 feet west of Highland Ave.)					
Length of Segment	1,320 feet (0.25 miles)				
Adjacent Land Use	Rosemary Recreation Complex, Residential, Needham Public Library				
Number of Crosswalks along Segment	1 Uncontrolled Crosswalk				
Traffic Volumes (if available)	2,970 vehicles per day – 2012 MAPC Local Access Dataset				
Speed Limit	30 mph (prima facie)				
Roadway Classification	Urban Collector				
On State Highway?	No				
MassDOT Approval Required?	No				

#### Warrants

- 1. The street is adjacent to a land use that is likely to attract vulnerable road users.
- 2. The Safety Zone contains one or more areas that have potential conflicts between motor vehicles and vulnerable road users that warrant a reduction in speeds such as crosswalks, driveways or side streets.
- 3. The length of the Safety Zone is at least a ¼ of a mile.



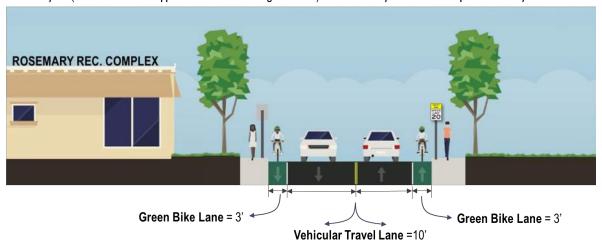
PEDESTRIAN SAFETY AUDIT Needham, Massachusetts

Yes

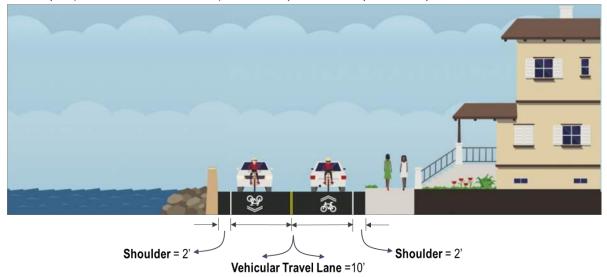
Yes

Yes

Rosemary St. (Hillside Avenue to Approx. 100 ft west of Highland Ave.) near Rosemary Recreation Complex/ Rosemary Lake/ Pool



Rosemary St. (Hillside Avenue to Tilotson Road.) near Rosemary Recreation Complex/ Rosemary Lake/ Pool



The cross section depicted to the top left can be applied along Rosemary Street from the easterly limits of the Safety Zone westerly to Hillside Avenue. The existing pavement width west of Hillside Avenue is too narrow to accommodate the minimum width green and thus just edge lines should be provided west of Hillside Avenue with in lane sharrows to help accommodate bicyclists (proposed cross section in bottom left image). In order for the Town to maintain a consistent cross section throughout the entire Safety Zone inclusive of painted green shoulders, it is recommended that the Town widen the roadway from Hillside Avenue to Tilotson Road as part of a long term reconstruction plan in the future.

Given the proposed lack of green contrast west of Hillside Avenue, it is recommended that a marked crosswalk be installed just east of Tilotson Road, enhanced with a RRFB, to accommodate the residential apartment complex just north of Rosemary Street. The installation of this crosswalk should be dependent on the Town's plans to potentially reconstruct the shoulder south of Rosemary Street from Tilotson Road to the Pool's entrance. It is also recommended that the Town remove the blinking pedestrian warning signs at the crosswalk at the pool's entrance and replace with a complete RRFB system for enhanced visibility.



2

SAFETY ZONE

**Rosemary Street** 

Tilotson Road to Needham Library Driveway (near Rosemary Recreation Complex)

Length: 1320 Feet

		Quantity Unit	Uni	t Price	Tota	al Cost
Pavement Markings	Green Bike Area	5400 SF	\$	5.00	\$	27,000.00
	White Edge Lines	2640 LF	\$	1.50	\$	3,960.00
	Double Yellow Line	2640 LF	\$	1.50	\$	3,960.00
	Bike Symbols (1 Bike Lane Symbol = 15 SF)	90 SF	\$	6.50	\$	585.00
	High Visibility Continental Crosswalk	160 SF	\$	3.00	\$	480.00
					\$	-
Signs	MA-R2-7 (5 sf Each)	10 SF	\$	11.00	\$	110.00
	MA-R2-8 (5 sf each)	10 SF	\$	11.00	\$	110.00
					\$	-
Posts	P-5 Channel Posts	4 Each	n \$	125.00	\$	500.00
					\$	-
Beacons	Rectangular Rapid Flashing Beacon System	2 Each	n \$	20,500.00	\$	41,000.00

Location #2 Total = \$	77,705.00
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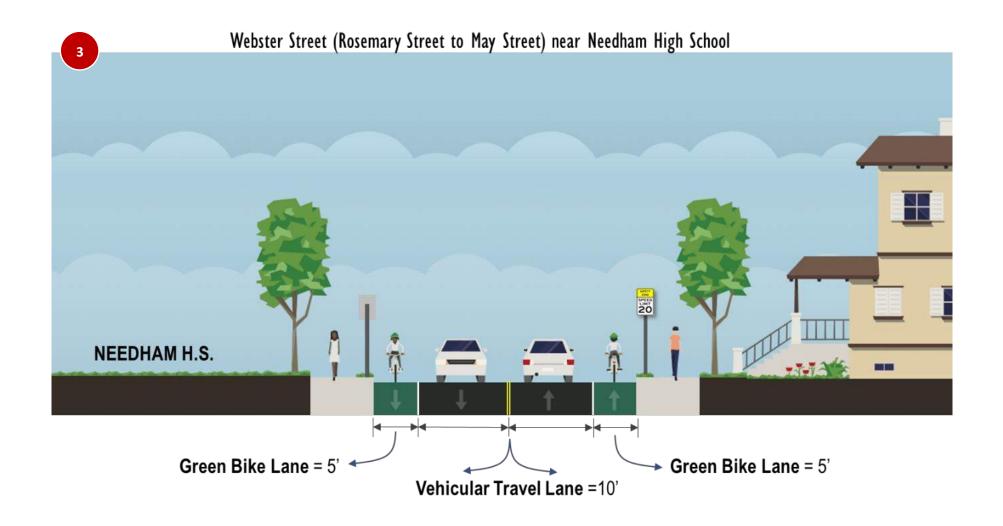
#### WEBSTER STREET (ROSEMARY STREET TO MAY STREET) NEAR NEEDHAM HIGH SCHOOL



Webster Street near Needham High School (Rosemary Street to May Street)				
Length of Segment	2,320 feet (0.44 miles)			
Adjacent Land Use	Needham High School, Residential			
Number of Crosswalks along Segment	3 Uncontrolled Crosswalks			
Traffic Volumes (if available)	11,480 vehicles per day – GPI count '18			
Speed Limit	30 mph (prima facie)			
Roadway Classification	Urban Collector			
On State Highway?	No			
MassDOT Approval Required?	No			

	Warrants	
	1. The street is adjacent to a land use that is likely to attract vulnerable road users.	Yes
	2. The Safety Zone contains one or more areas that have potential conflicts between motor vehicles and vulnerable road users that warrant a reduction in speeds such as crosswalks, driveways or side streets.	Yes
	3. The length of the Safety Zone is at least a ¼ of a mile.	Yes





The cross section depicted above can be applied along the entire Safety Zone segment on Webster Street. The three proposed RRFB locations are currently in design and will be constructed in late Summer 2019.



SAFETY ZONE

webster	Street
D	C++ +- 1.4

Rosemary Street to May Street

Length: 2320 Feet

		Quantity Unit	Unit	t Price	Tota	I Cost
Pavement Markings	Green Bike Area	23200 SF	\$	5.00	\$	116,000.00
	White Edge Lines	4640 LF	\$	1.50	\$	6,960.00
	Double Yellow Line	4640 LF	\$	1.50	\$	6,960.00
	Bike Symbols (1 Bike Lane Symbol = 15 SF)	120 SF	\$	6.50	\$	780.00
	High Visibility Continental Crosswalk	300 SF	\$	3.00	\$	900.00
					\$	15
Signs	MA-R2-7 (5 sf Each)	10 SF	\$	11.00	\$	110.00
	MA-R2-8 (5 sf each)	10 SF	\$	11.00	\$	110.00
	900				\$	140
Posts	P-5 Channel Posts	4 Each	\$	125.00	\$	500.00
					\$	-
Beacons	Rectangular Rapid Flashing Beacon System	3 Each	\$	20,500.00	\$	61,500.00
					\$	193,820.00
Removed as part of Ped	estrian Safety Design Contract No. 20DPW021C:				\$	62,400.00
		Locatio	n #3 Tota	d =	\$	131,420.00



#### BEAUFORT AVENUE (NICHOLS ROAD TO MT. VERNON AVENUE) NEAR PERRY PARK



Beaufort Avenue near Perry Park (Nichols Road to Mt. Vernon Avenue				
Length of Segment	1,320 feet (0.25 miles)			
Adjacent Land Use	Perry Park (Recreation), Residential			
Number of Crosswalks along Segment	3 Uncontrolled Crosswalks			
Traffic Volumes (if available)	Unavailable			
Speed Limit	30 mph (prima facie)			
Roadway Classification	Local			
On State Highway?	No			
MassDOT Approval Required?	No			

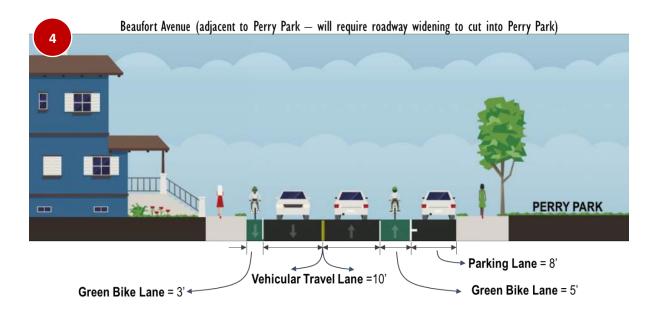
#### Warrants

- 1. The street is adjacent to a land use that is likely to attract vulnerable  $\quad$  Yes road users.
- 2. The Safety Zone contains one or more areas that have potential Yes conflicts between motor vehicles and vulnerable road users that warrant a reduction in speeds such as crosswalks, driveways or side streets.
- 3. The length of the Safety Zone is at least a ¼ of a mile.

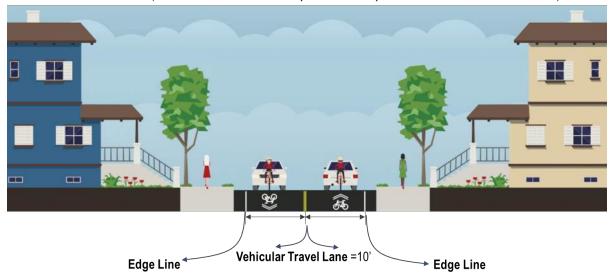


Yes





Beaufort Avenue (Mount Vernon Avenue to southerly extents of Perry Park and Arden Street to Nichols Road)



It is currently exists, the cross section along Beaufort Avenue is too narrow to safely accommodate a designated bike lane via green painted shoulders. Vehicles currently park on the eastern side of the roadway to access the park and in doing so, often encroach the sidewalk as there is no adequate buffer to prevent this action. With the intent to provide bicycle accommodations and a designated parking area, it is recommended that the Town cut into the park approximately 10 feet to achieve the cross section depicted in the top left.

Public right-of-way both north and south of the Park is limited and thus widening is unlikely to occur. Therefore, the roadway segments along Beaufort Avenue from Mount Vernon Avenue to the southerly extents of Perry Park and from Arden Street to Nichols Road, are recommended to receive pavement markings to achieve the cross section in the bottom left. This includes 10-foot travel lanes with painted edge lines to give a narrowing effect.

In regard to crosswalks along the safety zone corridor, it is recommended that the Town remove the diagonal crosswalk and crosswalk south of Hawthorne Avenue and instead provide a marked, continental style crosswalk just north of Hawthorne Avenue. It is recommended that complete RRFB systems be installed at said crosswalk as well as the existing marked crosswalk just south of Nichols Road.



NE

SAFETY ZONE
Beaufort Avenue

Nichols Road to Mount Vernon Avenue (near Perry Park)

Length: 1320 Feet

		Quantity	Unit	Unit Pr	ice	Tota	al Cost
Pavement Markings	Green Bike Area	10560	SF	\$	5.00	\$	52,800.00
	White Edge Lines	2640	LF	\$	1.50	\$	3,960.00
	Double Yellow Line	2640	LF	\$	1.50	\$	3,960.00
	Bike Symbols (1 Bike Lane Symbol = 15 SF)	90	SF	\$	6.50	\$	585.00
	High Visibility Continental Crosswalk	180	SF	\$	3.00	\$	540.00
						\$	-
Signs	MA-R2-7 (5 sf Each)	10	SF	\$	11.00	\$	110.00
	MA-R2-8 (5 sf each)	10	SF	\$	11.00	\$	110.00
						\$	-
Posts	P-5 Channel Posts	4	Each	\$	125.00	\$	500.00
						\$	-
Beacons	Rectangular Rapid Flashing Beacon System	2	Each	\$ 2	20,500.00	\$	41,000.00
						\$	-
	Widen roadway Approx. 10 feet from Approx. 350						
Roadway Widening	Feet along Perry Park.	1	LS	\$8	30,000.00	\$	80,000.00

ocation #4 Total =	\$ 183,565.00



### GREAT PLAIN AVENUE (HARRIS AVENUE TO ELMWOOD ROAD) NEAR HERSEY MBTA TRAIN STATION



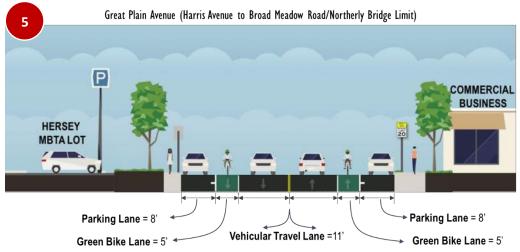
Great Plain Avenue near Hersey MBTA Station (Harris Avenue to Mt. Elmwood Road)			
Length of Segment	1,390 feet (0.26 miles)		
Adjacent Land Use	Hersey MBTA Station, Commercial, Residential		
Number of Crosswalks along Segment	2 Uncontrolled Crosswalks		
Traffic Volumes (if available)	8,8800 – GPI Count 2018		
Speed Limit	30 mph (prima facie)		
Roadway Classification	Urban Minor Arterial		
On State Highway?	No		
MassDOT Approval Required?	No		

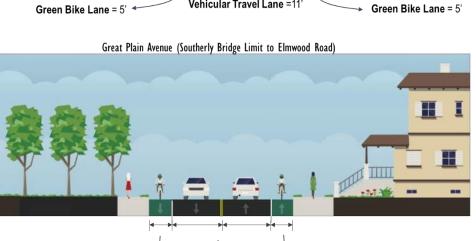
#### Warrants

- 1. The street is adjacent to a land use that is likely to attract vulnerable  $\,\,$  Yes road users.
- 2. The Safety Zone contains one or more areas that have potential Yes conflicts between motor vehicles and vulnerable road users that warrant a reduction in speeds such as crosswalks, driveways or side streets.
- 3. The length of the Safety Zone is at least a ¼ of a mile.



Yes

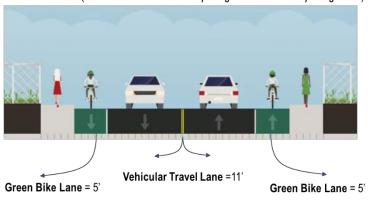




Vehicular Travel Lane =11'

Green Bike Lane = 5'





The cross section depicted in the top left image can be applied from Harris Avenue to Broad Meadow Road (Northerly bridge limits). This section includes designated bike lanes at 5 feet wide and dedicated parking lanes at 8 feet wide.

The pavement cross section narrows when traveling along the bridge. Therefore, parking lanes are not included within this cross section, depicted in the top right image.

The bottom left image depicts the cross section south of the bridge to Elmwood Road. There is no dedicated parking lane in this segment and the designated bike lane is a minimum of 5 feet in both directions, however, it may be widened as pavement width allows.

The two proposed RRFB locations are currently in design and will be constructed in late Summer 2019.



Green Bike Lane = 5'

SAFETY ZONE

5

Harris Avenue to E	Imwood Road (near Hersey Station)
Length:	1390 Feet

		Quantity Unit	Unit	Price	Tota	Cost
Pavement Markings	Green Bike Area	13900 SF	\$	5.00	\$	69,500.00
	White Edge Lines	5560 LF	\$	1.50	\$	8,340.00
	Double Yellow Line	2780 LF	\$	1.50	\$	4,170.00
	Bike Symbols (1 Bike Lane Symbol = 15 SF)	90 SF	\$	6.50	\$	585.00
	High Visibility Continental Crosswalk	480 SF	\$	3.00	\$	1,440.00
	11 10 10				\$	
Signs	MA-R2-7 (5 sf Each)	10 SF	\$	11.00	\$	110.00
	MA-R2-8 (5 sf each)	10 SF	\$	11.00	\$	110.00
Posts	P-5 Channel Posts	4 Each	\$	125.00	\$	500.00
					\$	
Beacons	Rectangular Rapid Flashing Beacon System	2 Each	\$	20,500.00	\$	41,000.00
	76 10 10 10				\$	*
					\$	125,755.00
Removed as part of Ped	estrian Safety Design Contract No. 20DPW021C:				\$	42,440.00
		Locatio	n # 5 Tota	al =	\$	83,315.00
					•	30/02300
		Locatio	n #1 Tota	l=	\$	82,795.00
		Locatio	n #2 Tota	l =	\$	77,705.00
		Locatio	n #3 Tota	l =	\$	131,420.00
		Locatio	n #4 Tota	l =	\$	183,565.00
		Locatio	n #5 Tota	l =	\$	83,315.00
		SAFETY	ZONE TO	TAL =	\$	558,800.00



# 4.3 CROSSWALK POLICY

A critical component of pedestrian safety is implementing crossing treatments that foster sustainable safety and are appropriate for a location given the roadway context and surrounding land use. This section of the report establishes a process for the evaluation and installation of proposed crosswalk locations. It is recommended that the Town of Needham adopt a crosswalk installation policy to ensure that crosswalks are implemented in locations where it is safe to establish a crossing, and that where installed, they are complying to Federal and State standards.

According to the Manual on Uniform Traffic Control Devices (MUTCD), "Crosswalk lines should not be used indiscriminately. An engineering study should be performed before they are installed at locations away from high traffic signals or STOP signs." The MUTCD further states, "New marked crosswalks alone, without other measures designed to reduce traffic speeds, shorten crossing distances, enhance driver awareness of the crossing, and/or provide active warning of pedestrian presence, should not be installed across uncontrolled roadways where the speed limit exceeds 40 mph and either:

A. The roadway has four or more lanes of travel without a raised median or pedestrian refuge island and an ADT of 12,000 vehicles per day or greater; or

B. The roadway has four or more lanes of travel with a raised median or pedestrian refuge island and an ADT of 15,000 vehicles per day or greater."

Therefore, it is highly recommended that all proposed crosswalk locations be evaluated through an engineering study. Typical studies should include collection of traffic and pedestrian volume data at the proposed location, collection of speed data, evaluation of accident history and field measurement of available sight distances. Since a marked crosswalk can sometimes create a "false sense of security" for pedestrians, the engineering study is critical in identifying the actual need and adequacy of a marked crosswalk. Prior to preparation of a full engineering study, the following general guidelines can be reviewed for each proposed crosswalk location. If it is determined that a proposed crosswalk location appears feasible, then a full engineering study should be completed preceding a crosswalk installation.

## GENERAL GUIDELINES FOR INSTALLATION BASED ON INDUSTRY STANDARDS

While pedestrian crossings are always preferred at intersections, where conflicts are more expected, there are instances where an 'uncontrolled' crosswalk may be considered. An uncontrolled crosswalk is a location where sidewalks or designated walkways intersect a roadway at a location where no traffic control (traffic signal or STOP sign) is present. As stated in the MUTCD, "Crosswalk markings provide guidance for pedestrians who are crossing roadways by defining and delineating paths on approaches to and within signalized intersections, and on approaches to other intersections where traffic stops. Crosswalk markings also serve to alert road users of a pedestrian crossing point across roadways not controlled by high traffic signals or STOP signs. At midblock locations, crosswalk markings legally establish the crosswalk." A midblock crossing is an uncontrolled, marked crosswalk occurring at a location away from an intersection.

Marked pedestrian crosswalks can be used to delineate preferred pedestrian paths across roadways at non-signalized locations where engineering judgement dictates that the number of motor vehicle lanes, pedestrian exposure, pedestrian volume estimates, average daily traffic (ADT), posted speed limit, geometry of the location, area type and other site conditions would make the user of specially designated crosswalks desirable for traffic/pedestrian safety mobility.

It is noted that the MUTCD does not specify specific criteria or warrants based on minimum volume of pedestrians or vehicles required to justify installation of a crosswalk. Therefore, addition studies were researched and referenced to provide additional guidance and criteria for the establishing of crosswalk locations. A study prepared by Zegeer, et al, and published in the Institute of Transportation Engineers (ITE) Journal, evaluated marked crosswalks at uncontrolled locations and offered guidelines for their use. The purpose of the study was to determine whether marked crosswalks at uncontrolled locations were safer than unmarked crosswalks under



diverse traffic and roadway conditions and to provide recommendations on providing safer crossings for pedestrians. The study analyzed five years of pedestrian crashes at 1,000 marked crosswalks and 1,000 matched unmarked comparison sites from which improvements were recommended to provide safer pedestrian crossings. The results of their study suggested for the placement of marked crosswalks and the design of safer crossing at uncontrolled locations. Their conclusions and recommendations include the following:

- Pedestrian crashes are relatively rare at uncontrolled pedestrian crossings; however, the certainty of injury to the pedestrian and the high likelihood of a severe or fatal injury in a high-speed crash make it critical to provide a pedestrian-friendly transportation network.
- Marked crosswalks should not be used where the speed limit exceeds 40 mph without supplemental devices.
- On two-lane roads and low volume multi-lane roads with an ADT less than 12,000, marked crosswalks were not found to have any positive or negative effect on pedestrian crash rates at the study sites. Marked crosswalks may encourage some pedestrians to cross the street at such sites.
- For three-lane roads, adding marked crosswalks alone without other substantial crossing improvements

- generally is not recommended for an ADT greater than 12,000, although exceptions may be allowed under certain conditions such as lower-speed roads.
- Marked crosswalks alone without other substantial treatments are not recommended at uncontrolled crossing locations on multi-lane roads with four or more lanes where traffic volume exceeds approximately 12,000 vehicles per day with no raised medians or approximately 15,000 ADT with raised medians that serve as refuge areas.
- In some situations, such as low-speed, two-lane streets in downtown areas, installing a marked crosswalk may help consolidate multiple crossing points. Engineering judgment should be used to install crosswalks at preferred crossing locations. Higher priority should be placed on providing marked crosswalks where the pedestrian crossing volume exceeds 20 pedestrians per peak hour or 15 or more elderly pedestrians and/or children per peak hour.

Other publications, such as the Champaign-Urbana Pedestrian Crossing Enhancement Guidelines published by Illinois' Champaign County Regional Planning Commission in September 2017, utilize more lenient minimum pedestrian thresholds. These guidelines allow the installation of a crosswalk at locations where pedestrian demand is equal to 20 peds in any one hour, 18 peds in any two hours, or 15 peds in any three hours.

It's important to note that these are guidelines and may be altered to fit community context. As such, GPI recommends the following installation process.

#### CROSSWALK EVALUATION TO INSTALLATION PROCESS

Public requests for crosswalk installations will be handled by the Traffic Management Advisory Council. GPI recommends that a formal procedure be adopted by the TMAC which may include an online submission form to standardize the public request procedure. Once the TMAC has obtained a crosswalk request, it may recommend that further data be collected to determine if it is warranted, and if so, then recommend an installation appropriate for its location.

#### Step 1. Data Collection

If the crosswalk is endorsed by a majority of the residents, it is recommended that the Town collect data to aid in selecting an appropriate crossing treatment, if any. Data collection efforts can include speed and volume counts, pedestrian activity and existing network evaluation, adequacy of sight distance, evaluation of street lighting, evaluation of roadway characteristics, and crash trends within the vicinity of the proposed location.



Speed and Volume Counts: It is recommended that the Town of Needham deploy 48-hour Automatic Traffic Recorder Counts at an appropriate location nearby the proposed crosswalk in accordance to MassDOT Traffic Impact Assessment (TIA) Guidelines for consistency and potential further use. These ATR counts collect speed, volume and classification data and are recommended to be collected on a normal Tuesday, Wednesday or Thursday. Prior to the deployment of counts, the Town is advised to obtain any available current counts (less than 2 years old) that could be used in lieu to save funding.

Pedestrian Activity and Existing Network Evaluation: Pedestrian volumes should be collected at each proposed crosswalk location and special notes should be taken to determine the percentage of young, elderly and disabled pedestrians. Data collection should also include the identification and quantity of pedestrian generators within a ¼ mile service area buffer located on the same street as the proposed crosswalk location. Special note should be taken as to how pedestrians currently access those pedestrian generators. A conditional assessment of existing sidewalks and wheelchair ramps should be conducted, and ADA compliance should be measured to ensure crosswalk installation is appropriate.

**Sight Distance**: A site visit is recommended to determine the adequacy of sight distance for the proposed crosswalk. Evaluators should refer to the AASHTO Green Book for sight distance

minimum requirements given posted speed limits.

**Street Lighting:** Adequate street lighting is critical to the effectiveness of a crossing location. Historically, street lighting has been installed more so with the focus on the motorists rather than the safety of pedestrians. The FHWA's Publication No. FHWA-HRT-08-053: Informational Report on Lighting Design for Midblock Crosswalks, released in April 2008, documented new recommendations for streetlighting at crosswalks.

- Street Lighting at Midblock Crosswalks Prior to the new recommendations, many agencies installed a
  single luminaire directly over a midblock crosswalk. This practice provides high pavement luminance at
  the crosswalk but inadequately illuminates the pedestrian. The FHWA now recommends that for
  roadways that have traffic traveling in both directions, particularly those without a center median, two
  luminaries are required, located on either side of the road and placed prior to the crosswalk from the
  drivers' perspective.
- Street Lighting at Intersection Crosswalks Many crosswalks are located within intersections which pose
  many conflict points for pedestrians. Prior to FHWA's new recommendations, luminaries were
  positioned to provide a high level of pavement illuminance required in the intersection and to light the
  potential conflict areas for the vehicles. This practice lights the side of the pedestrian facing the
  intersection and does not light the side of the pedestrian facing the approaching vehicle. Therefore, the
  FHWA now recommends that luminaries be located away from the intersection to provide light on the
  approach side of the pedestrian.

Roadway Characteristics: A site visit is recommended to determine the grade of the roadway and pavement width (including the number of travel lanes, parking lanes, and bicycle lanes). Pavement width affects crossing distance. The presence of a bicycle lane adds another conflict point for the proposed crosswalk location and the presence of parking should be noted as the installation of a crosswalk may result in the loss of parking. Parking should not be located within 20 feet of either direction of a crosswalk to improve pedestrian visibility. Evaluators should also take special note of any drainage structures located within the vicinity of the proposed crosswalks. The installation of new crosswalks may result in the relocation/adjustment of existing drainage structures or the installation of new structures to ensure ponding does not occur at pedestrian curb ramps.

**Crash Trends**: Crash data should be researched for the last five available years to analyze crash trends within the vicinity of the proposed crosswalk location. Proposed crosswalks located within high crash locations should likely receive supplemental devices to improve safety in these locations.



#### **Step 2. Select Appropriate Crossing Treatment**

Given the data collected in Step 4, the Town is recommended to utilize the flow chart, depicted in Figure 5, in conjunction with Table 3 to appropriately select crossing treatments, if any. It is recommended that the following guidelines be utilized to ensure that crossing locations are implemented in a sustainable safe manner.

- No action is recommended for proposed crossing locations on roadways with an average daily traffic volume less than 1,500 vehicles per day.
- The preferred distance to the nearest marked or protected crossing is 300 feet.
- Recommended Minimum Pedestrian Volume Thresholds are as follows (young/elderly/disabled pedestrians count 2x towards the volume thresholds):
  - o 20 peds/ hour in any 1 hour, or
  - o 18 peds/ hour in any 2 hours, or
  - o 15 peds/ hour in any 3 hours
- Crossing locations may be considered for a marked, uncontrolled crosswalk if it can be reasonably expected that the required Minimum Pedestrian Volume Thresholds listed above would be met given there was a marked crosswalk present. Pedestrian activity should be monitored, and surrounding pedestrian generators be identified to gage potential demand.

- Crosswalks should be installed in locations where sidewalk or a distinct pedestrian destination such as a recreational field are present on both sides of the roadway.
- Crosswalk should be installed in locations where adequate street lighting is present. If there is no lighting present, design should incorporate the installation of lighting fixtures.

#### **Step 3. Secure Funding and Prioritize**

If action is recommended, it is advised that projects go through a ranking prioritization process. Crosswalk locations can be prioritized based on engineering judgement; although should generally be ranked based on the following hierarchy (1 being the highest priority):

- 1. Uncontrolled Crossings
- 2. Unsignalized Intersection Roundabout
- 3. Unsignalized Intersection Stop or Yield Controlled
- 4. Signalized Intersections

#### **Step 4. Design and Construction**

Crosswalks shall be designed and installed according to industry standards. All pavement markings and warning signage must adhere to the standards stated in the MUTCD to ensure consistency and efficiency. Pedestrian crossing design guidance is described in further detail in Section 7.0.



**Identify Proposed Crosswalk Location** UNCONTROLLED ADT ≥ 1,500 Is crosswalk controlled No Action NO CONTROLLED Stop sign or signal SIGNAL School vpd? or uncontrolled? controlled? Recommended Crossing? NO YES STOP Consider installing Meets min. pedestrian NO **Install Marked** Install Marked unmarked pedestrian volume thresholds?\* Crosswalk w/ **Existing Marked** Crosswalk crossing facilitation school crossing Crosswalk? YES sign on mast arm (S1-1)YES NO NO Nearest marked or Meets 2x the min. ADT ≥ No Action Concerns about protected crossing > pedestrian volume 1,500 vpd? driver compliance Recommended thresholds?\* 300' away? at Crosswalks YES NO YES YES YES Meets min. pedestrian Direct pedestrians to NO No Action Consider neckdowns, volume thresholds?\* nearest marked or Recommended Adequate stopping median refuge or protected crossing NO sight distance additional signs to increase available? driver awareness YES Remove sight distance obstruction or lower speed limit No Action YES Recommended School Crossing? NO YES See Table 3 for FEASIBLE FEASIBLE **Install Marked Crosswalk** Recommended **Install Marked Crosswalk** w/advance school **Crossing Treatment** w/ advance pedestrian pedestrian crossing sign crossing sign (W1-1) and

\* Please refer to Minimum Pedestrian Thresholds

**Figure 5. Crosswalk Treatment Selection Flowchart** 

Direct pedestrians to nearest

marked or protected crossing or consider HAWK beacon, traffic

signal or grade-separated crossing



(S1-1) and ahead plaque

(W16-9P)

ahead plaque (W16-9P)

Table 3. Recommendations for Installing Marked Crosswalks and Other Needed Pedestrian Improvements at Uncontrolled Intersections

Existing Roadway Type	# of lanes	# of multiple	ADT	1,500 - (	6,000	ADT	6,000 - 9	,000	ADT	9,000 - 1	.2,000	ADT 1	<b>2,000</b> - 1	15,000	Al	DT > 15,(	000
(# of Travel Lanes and Median	crossed to reach	threat lanes per							Spee	d Limit*	*						
Type)	a refuge	crossing	≤ 30 mph	35 mph	40 mph	≤ 30 mph	35 mph	40 mph	≤ 30 mph	35 mph	40 mph	≤ 30 mph	35 mph	40 mph	≤ 30 mph	35 mph	40 mph
2 Lanes (one-way street)	2	1	А	В	С	А	В	С	А	В	С	В	В	С	В	С	D
2 Lanes (two-way street with no median)	2	0	А	В	С	А	В	С	А	В	С	А	В	С	В	С	E
3 Lanes with Raised Median	1 or 2	0	А	В	D	А	В	D	А	С	D	В	D	D	С	D	Е
3 Lanes with Striped Median	3	0 or 1	С	С	D	С	С	D	С	С	D	С	С	D	С	D	E
4 Lanes (two-way street with no median)	4	0 or 1	А	D	D	А	D	D	В	D	D	В	D	D	D	D	Е
5 Lanes with Raised Median	2 or 3	2	А	В	D	А	В	D	В	С	D	В	С	D	С	С	Е
5 Lanes with Striped Median	5	2	D	D	D	D	D	D	D	D	D	D	D	D	D	D	Е
6 Lanes (two-way street with or without median)	3 to 6	4	Е	Е	E	Е	Е	Е	E	E	E	E	E	Е	Е	E	E
Speed Safety Zone/School Zone	2	2	F	F	F	F	F	F	F	F	F	F	F	F	F	F	E

A = Type 1 marked crosswalk is recommended.

Crosswalk Types are explained in detail on the following pages of this document.



B = Type 2 marked crosswalk is recommended.

C = Type 3 marked crosswalk is recommended.

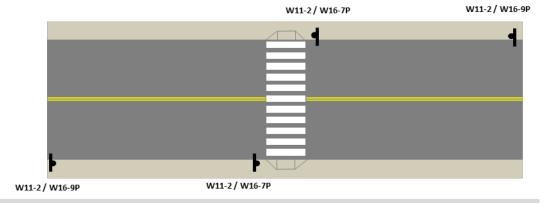
D = Type 4 marked crosswalk is recommended.

E = Type 5 marked crosswalk is recommended.

F = Type 6 marked crosswalk would be located within a Speed Safety Zone or School Zone and shall include supplemental RRFB warning devices

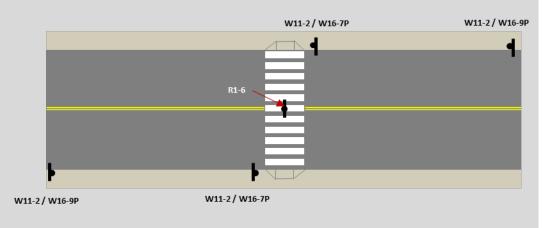
## **Type 1 Crosswalk Installation**

- Marked crosswalk
- Pedestrian crossing warning signs (W11-2) with diagonal down arrow plaques (W16-7P) at crosswalk
- Standard advance pedestrian warning signs (W11-2) with AHEAD plaques (W16-9P) in advance of the crosswalk
- If the location is within a school zone, then standard S1-1 signs should be used



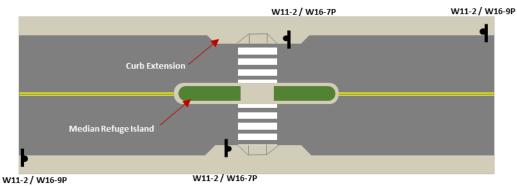
#### **Type 2 Crosswalk Installation**

 Same as Type A plus add "State Law – Stop for Pedestrians" signs (R1-6). If a raised median is present, mount on sign posts. If no median present, consider in-road installation on flexible bollards at centerline.



#### **Type 3 Crosswalk Installation**

 Same as Type A plus add curb extensions and/or median refuge island to shorten pedestrian crossing distance and increase pedestrian visibility to approaching motorists.

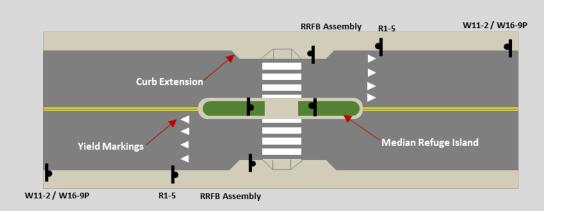




PEDESTRIAN SAFETY AUDIT Needham, Massachusetts

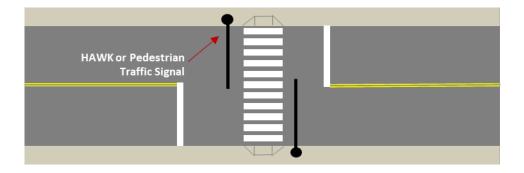
#### **Type 4 Crosswalk Installation**

- Marked crosswalk
- Median refuge island (If a median refuge cannot be constructed on a 2-way street, then proceed to Type F)
- RRFB system installation
- Yield Markings prior to refuge island
- Standard 'Yield Here to Pedestrians' (R1-5) signs at yield markings
- Standard advance pedestrian warning signs (W11-2) with AHEAD plaques (W16-9P) in advance of the crosswalk
- If the location is within a school zone, then standard S1-1 signs should be used
- Consider adding curb extensions if onstreet parking exists and drainage can be accommodated
- If pedestrian volumes are extremely high, consider Type F installation



# **Type 5 Crosswalk Installation**

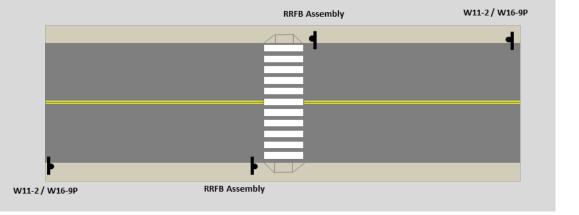
 Consider a HAWK beacon, pedestrian traffic signal or grade-separated crossing.





#### **Type 6 Crosswalk Installation**

- Marked crosswalk
- RRFB system installation
- Standard advance pedestrian warning signs (W11-2) with AHEAD plaques (W16-9P) in advance of the crosswalk
- If the location is within a school zone, then standard S1-1 signs should be used







PEDESTRIAN SAFETY AUDIT Needham, Massachusetts

# **CROSSWALK AUDIT**

In early spring of 2019, GPI conducted an inventory of all of Needham's crosswalks as provided by the Town. In total, there are 431 crosswalks with the following control breakdown: 69 Uncontrolled, marked Crossings, 230 Stop Controlled, 76 Signalized, 56 Parking Lot (Private).

#### 5.1 DATA COLLECTION METHODOLOGY

Prior to the field inventory, all crosswalks were mapped in a GIS database, provided a unique identifier, and populated with a brief location description. To streamline the data collection process, ESRI mobile applications, Collector and Survey123, were utilized, allowing mass data collection within an organized platform. Given the large dataset (431 total crosswalks) crosswalks at signalized intersections and stop controlled approaches received a more cursory review while the uncontrolled crossings received a more indepth evaluation given their lack of vehicular control. Crosswalks within parking lots (private areas) were excluded from this study.

#### **Signalized Crosswalks**

The cursory review for crosswalks at signalized intersections included a conditional assessment as well as data collection regarding pavement marking type, pedestrian signal equipment (pedestrian signal head type, pedestrian push button type, signal equipment condition), the presence of wheelchair ramps and photos of each

crosswalk. It should be noted that pedestrian signal timing and phasing was not collected as part of this project. It is recommended that the town conduct a separate traffic signal inventory to ensure that pedestrian signal phasing, where provided, complies with MUTCD and MassDOT standards.

#### **Crosswalks at STOP-Controlled Approaches**

The cursory review for crosswalks at STOP-Controlled approaches included a conditional assessment as well as data collection regarding pavement marking type, STOP sign condition, location of STOP bars, the presence of wheelchair ramps and photos of each crosswalk.

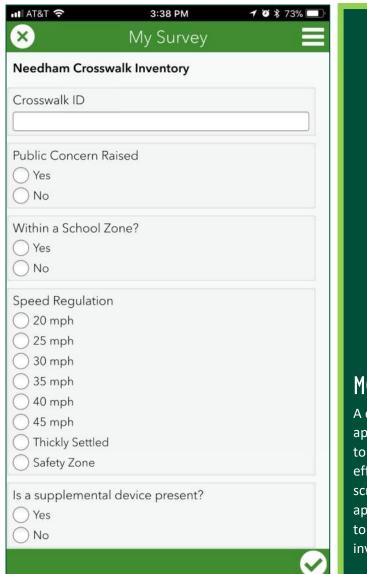
#### **Uncontrolled Crosswalks**

A more extensive data collection effort was executed for uncontrolled crossings and yield controlled crosswalks as pedestrians are at greater risk given the lack of vehicular control. Thus, in regard to potential implementation programs, prioritization should be given to these locations. The following data was collected for crosswalks falling into this category:

- Public Concern Raised Indicates whether or not the crosswalk was identified as a concern during the public outreach efforts. Implementation efforts should be weighted to prioritize documented high-risk crosswalk locations.
- School Zone Presence Indicates whether or not the crosswalk is located within a designated School Zone.
   Massachusetts law warrants a school zone if the school property abuts the public right of way within the
   limits of the proposed zone area, school children have direct access to the street or roadway from the school
   property, the zone contains a marked crosswalk, and the school involves one or more grades between Grade
   1 and Grade 8, inclusive. Crosswalks within School Zones must adhere to specifications documented in the
   Massachusetts Amendment to the MUTCD.
- Speed Regulation Identifies the roadway speed limit. Uncontrolled crosswalks, specifically those at midblock locations, along high-speed roadways should be given priority for any implementation programs.
- Supplemental Device Presence Identifies any supplemental devices present at the crosswalk, if any, including RRFBs, HAWK signals, In-Pavement Lighting, Traffic Signal, Flashing Signal, or Other.
- Crosswalk Type Identifies the type of crosswalk marking which may be one of the following: continental
  with no parallel lines, continental with parallel lines, parallel lines only, parallel lines with diagonals, colored
  insert, textured, or other.
- Approach Data Collection- Data was collected along each approach of the crosswalk, distinguished by the approach direction (NB, SB,EB,WB).



- Advanced Warning Sign Presence –
  Documents any advance warning
  signage and provides a photo and
  conditional assessment of any
  provided signage. Advance warning
  signage may include a W11-2/W16-9P
  sign assembly, S1-1/W16-9P sign
  assembly
- At Crosswalk Warning Sign Presence –
  Documents any advance warning
  signage and provides a photo and
  conditional assessment of any
  provided signage. At crosswalk
  warning signage may include a W112/W16-7P sign assembly or a S11/W16-7P sign assembly.
- Approach Stopping Sight Distance Assesses the adequacy of stopping sight distance based on minimum lengths as dictated by the MUTCD and ASSHTO Green Book.
- Street Lighting
   — Indicates whether street lighting is available and if so, does it conform to FHWA recommendations?
- Wheelchair Ramps- Indicates whether wheelchair ramps are available and if so, what is the construction material and are detectable warning panels present.







#### 5.2 DATA COLLECTION RESULTS

Following the data collection efforts, data was housed in an ESRI geodatabase at which point data which was analyzed to ensure quality assurance and control.

#### **Signalized Crosswalks**

A total of 76 signalized crosswalks were inventoried during the data collection process. As seen in Table 4, approximately 18% of signalized crosswalks had pavement markings assessed as in poor condition. The town regularly repaints all roadway markings and it is anticipated that these crosswalk locations will be refreshed as part of the Town's annual maintenance program.

**Table 4.** Pavement Marking Conditional Assessment

Rating	# Crosswalks (%)
Good	26 (34%)
Fair	36 (48%)
Poor	14 (18%)

Although ramp dimensions were not taken as part of this project to assess ADA compliancy, the availability of wheelchair ramps was documented. Of the total 76 signalized crosswalks, approximately 4 crosswalks were missing ramps. It is advised that the Town install ramps at these locations to ensure accessibility.

A brief assessment of the pedestrian signal equipment, where available, was conducted

during the data collection process. Figure 6 provides a breakdown of pedestrian push button types while Figure 7 provides a breakdown of the different pedestrian signal heads observed in the field. It is recommended that the Town replace the 3 Non-ADA push buttons found in the field in the short term. As funding becomes available, the Town should consider upgrading all push button to APS buttons and all pedestrian signal heads to countdown timers as these represent the current industry standards.

Figure 6. Pedestrian Push Button Type

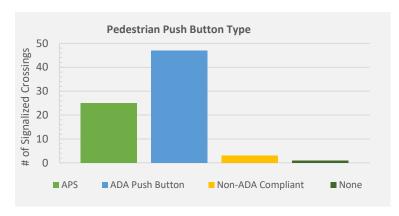
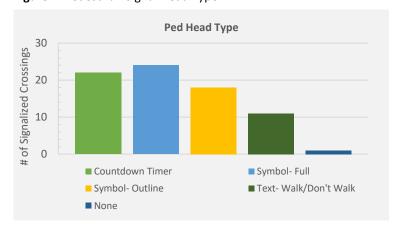


Figure 7. Pedestrian Signal Head Type



Overall pedestrian signal equipment was provided a conditional assessment- one of the options being antiquated. The following signalized intersections currently possess antiquated pedestrian signal equipment and should be upgraded to industry standards as funding becomes available:

- Central Avenue at Hunnewell Street
- Chestnut Street at Oak Street/ Beth Israel Hospital
- Great Plain Avenue at Central Avenue
- Great Plain Avenue at Greendale Avenue
- Highland Avenue at Gould Street/ Hunting Road



#### **Stop Controlled Crosswalks**

A total of 230 stop-controlled crosswalks were inventoried during the data collection process. As seen in Table 5 approximately 15% of the stop-controlled crosswalks had pavement markings assessed in poor condition. Again, it is anticipated that these markings will be refreshed as part of the Towns annual maintenance program.

**Table 5.** Pavement Marking Conditional Assessment

Rating	# Crosswalks (%)
Good	114 (50%)
Fair	80 (35%)
Poor	32 (15%)

Although ramp dimensions were not taken as part of this project to assess ADA compliancy, the availability of wheelchair ramps was documented. Of the total 230 signalized crosswalks, approximately 18 crosswalks were missing ramps. It is advised that the Town install ramps at these locations to ensure accessibility.

#### **Uncontrolled Crosswalks**

A total of 69 uncontrolled crosswalks were inventoried during the data collection process. As seen in Table 6, approximately 8% of the uncontrolled crosswalks had pavement markings assessed in poor condition. It is anticipated that these markings will be refreshed as part of the Towns annual maintenance program.

Table 6. Pavement Marking Conditional Assessment

Rating	# Crosswalks (%)
Good	37 (54%)
Fair	26 (38%)
Poor	6 (8%)

Although ramp dimensions were not taken as part of this project to assess ADA compliancy, the availability of wheelchair ramps was documented. **Of the total 69 uncontrolled crosswalks, approximately 12 locations were missing ramps**. It is advised that the Town install ramps at these locations to ensure accessibility.

Given the lack of vehicular control at uncontrolled crossings, visibility is of the upmost concern and as such, street lighting was documented during the data collection process. Of the total 69 uncontrolled crossings, 12 locations were lacking street lighting presenting safety concerns at these locations during nighttime conditions. For the 57 locations that reported having some sort of street lighting present, only 5% conform with the FHWA street lighting recommendations which states that for roadways that have traffic traveling in both directions, particularly those without a center median, two luminaries are required, located on either side of the road and placed prior to the crosswalk from the drivers' perspective.

Pedestrian warning crossing signage was also collected during the data collection process along each approach for each uncontrolled crossing. Advance warning signage may include a W11-2/W16-9P sign assembly or a S1-1/W16-9P sign assembly.

At crosswalk warning signage may include a W11-2/W16-7P sign assembly or a S1-1/W16-7P sign assembly. As Figure 8 indicates, 37 of the uncontrolled crosswalks (approximately 54%) have pedestrian warning signage at the crosswalk for both approaches (either a W11-2/W16-7P sign assembly or a S1-1/W16-7P sign assembly) while 11 uncontrolled crossings have pedestrian warning signage for at least one approach. Nineteen (19) of the total 69 uncontrolled crossings do not have pedestrian warning signage at the crosswalk on either approach. Of the existing at crosswalk signage, approximately 11 signs need replacement because they do not adhere to MUTCD conformance and likely do not pass required nighttime retro-reflectivity standards.

As Figure 8 also indicates, 24 of the uncontrolled crosswalks (approximately 35%) have advance pedestrian warning signage prior to the crosswalk on both approaches (either a W11-2/W16-9P sign assembly or a S1-1/W16-9P sign assembly) while 20 uncontrolled crossings have advance pedestrian warning signage for at least one approach. Twenty-five (25) of the total 69 uncontrolled crossings do not have advance pedestrian warning signage on either approach. Of the existing advance pedestrian signage, approximately 12 signs need replacement



because they do not adhere to MUTCD conformance and likely do not pass required nighttime retro-reflectivity standards.

Sight distances were measured for each approach of each uncontrolled crossing to ensure there is adequate visibility. 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 available sight distances were compared with minimum requirements, as established by the American Association of State Highway and Transportation Officials (AASHTO). Based on posted speeds, the available sight distances for approximately 97% of the uncontrolled crossings meet or exceed the minimum requirements.

Two locations were observed to have SSD close to the minimum requirements, MB-019 (Great Plain Avenue just east of North Hill Avenue) and MB-026 (Great Plain Avenue just northwest of Wilshire Park), both of which were identified as points of concern within the comments received from the TMAC.

Additional SSD measurements were taken at each location at each of the wheelchair ramps as well as in the middle of each crosswalks to ensure proper visibility of pedestrians utilizing the crosswalk. Given the slight horizontal curve, the measured SSD for the westbound approach on Great Plain Avenue in regard to the southern ramp at the North Hill Avenue crossing was

approximately 300 feet. The speed limit at this location is 30 miles per hour and therefore this location meets the minimum requirement of 200 feet. It should be noted that this takes into account the posted speed limit only and not the 85<sup>th</sup> percentile speed. If the 85<sup>th</sup> percentile speed were as high as 39 mph, this location would not meet the minimum SSD requirements.

Given the horizontal curve, the measured SSD for the westbound and eastbound approach on Great Plain Avenue in regard to the southern ramp at the Wilshire Park crossing was approximately 220 feet and 200 feet, respectively. The speed limit at this location is assumed 30-mph prima facie. However, the 85<sup>th</sup> percentile speed collected as part of the count program south of this intersection was 33 mph which requires 230 feet of SSD. Therefore, both approaches fail in regard to clear visibility for pedestrians in the southern crosswalk at Wilshire Park.

It should be noted that both locations were included in the Top High Risk Locations and will receive crossing upgrades to enhance visibility.

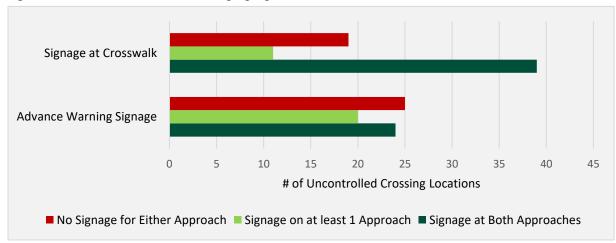


Figure 8. Presence of Pedestrian Warning Signage at Uncontrolled Crosswalks

Section 6.0 Implementation further identifies specific crosswalk locations in need of maintenance and or upgrading.

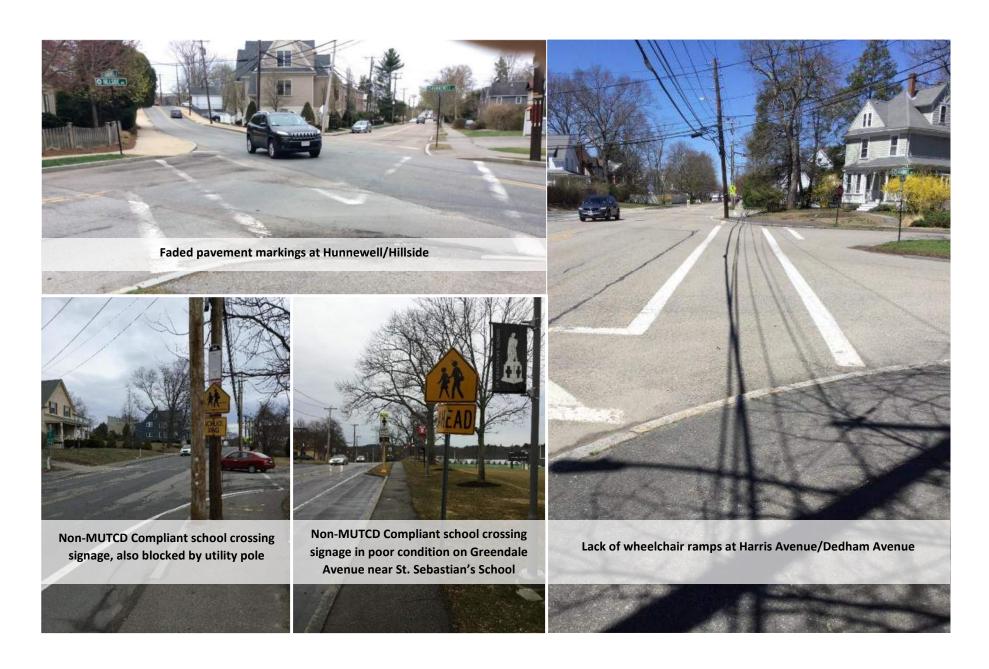


The results of the crosswalk inventory have been added to an ESRI geodatabase that will be provided to the Town. Each crosswalk has attributes and photos from the inventory attached to it. This is a great tool for the Town to use in the future. A thorough database for the Town's crosswalks provides officials the opportunity to:

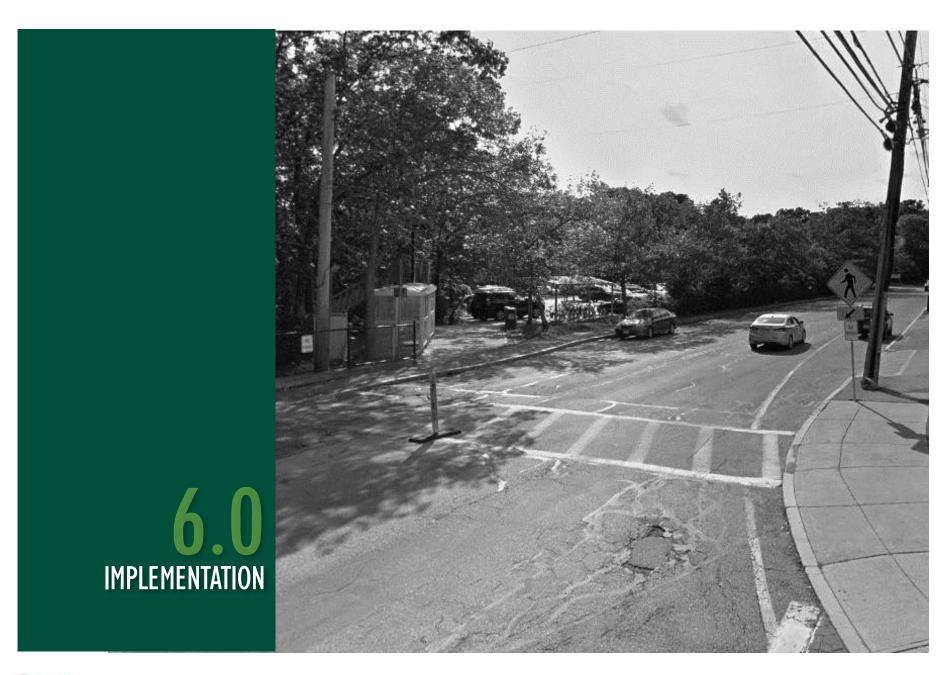
- Track assets
- Query and filter data to find specific locations in need of maintenance
- Optimize future planning and implementation efforts

All crosswalk attribute data is also included in the Appendix of this report as spreadsheets.











PEDESTRIAN SAFETY AUDIT Needham, Massachusetts

# PEDESTRIAN SAFETY ENHANCEMENT PROJECTS

Following an in-depth analysis of the data collected during the crosswalk inventory, GPI identified several areas where the Town of Needham can implement pedestrian related measures to enhance safety at crossing locations.

# 6.1 High-Risk Crosswalk Locations

As previously stated, to accelerate the implementation efforts, a list of eight high-risk crosswalk locations was developed in Fall of 2018. These high-risk crosswalk locations were selected based on several criteria including roadway classification, traffic speeds, proximity to schools, transit, religious centers, parks, and civic destinations, adequacy of existing street lighting, the occurrence of pedestrian related collisions and community referenced locations. Since then, a design contract has been awarded to provide construction level, survey-grade plans to install Rectangular Rapid Flashing Beacons and other supplemental crossing enhancements at these locations. The full Preliminary High-Risk Crosswalk Locations Report can be found in the Appendix. The following provides a breakdown of the expected improvements to be implemented at each location:

#### **Location 1- Webster Street at May Street**

- Install RRFB System and advanced warning crossing signs.
- Refresh pavement markings.
- Upgrade Street Lighting

#### Location 2- Webster Street at High School Drive (North)

- Install RRFB System and advanced warning crossing signs.
- Refresh pavement markings.
- Upgrade Street Lighting

#### Location 3- Webster Street at High School Drive (South)

- Install RRFB System and advanced warning crossing signs.
- Refresh pavement markings.
- Upgrade Street Lighting

#### **Location 4- Central Avenue at Newman Elementary School**

- Install RRFB System and advanced warning crossing signs.
- Install ADA complaint ramp with detectable warning panels for eastern side of Central Ave crossing.
- Replace detectable warning panels on existing wheelchair ramps crossing the school driveway
- Refresh pavement markings.
- Upgrade Street Lighting

#### Location 5- Great Plain Avenue at Hillcrest Road

- Install RRFB System and advanced warning crossing signs.
- Refresh pavement markings.
- Upgrade Street Lighting

#### Location 6- Great Plain Avenue at North Hill Avenue

- Install RRFB System and advanced warning crossing signs.
- Refresh pavement markings.
- Upgrade Street Lighting

#### Location 7- Great Plain Avenue at Wilshire Park/Beaufort Avenue

- Evaluate Sight Distances and visibility of crosswalk
- Install RRFB System and advanced warning crossing signs.
- · Refresh pavement markings.
- Upgrade Street Lighting



# Location 8- Great Plan Avenue at Broad Meadow Road

- Evaluate realignment of crosswalk to align with MBTA access walk
- Install RRFB System and advanced warning crossing signs.
- Install ADA complaint ramps with detectable warning panels for Great Plain Avenue crossing.
- · Refresh pavement markings.
- Upgrade Street Lighting

# 6.2 Safety Zone Implementation

As addressed in Section 4.0 Policy Recommendations, the Town of Needham is advised to strategically implement safety speed zones (20 MPH) in areas where vulnerable road users are likely to be present such as parks and playgrounds, senior citizen housing and centers, hospitals or other medical facilities, high school and higher education centers, transit centers and daycare facilities. GPI identified 5 potential safety speed areas which are listed below.

- 1. Hillside Avenue (Approx. 100 feet south of Webster Street to Approx. 150 feet south of Pine Groove Street) near Cricket Field
- 2. Rosemary Street (Tilotson Road to Approx. 100 feet west of Highland Avenue) near Rosemary Recreation Complex / Rosemary Lake/ Pool
- 3. Webster Street (Rosemary Street to May Street) near Needham High School
- 4. Beaufort Avenue (Nichols Rad to Mt. Vernon Avenue) near Perry Park
- 5. Great Plain Avenue (Harris Avenue to Elmwood Road) near Hersey MBTA Train Station





## 6.3 Webster Street Safety Corridor

Safety concerns along Webster Street were most cited during the public outreach program. Webster Street is an urban collector roadway that carries a high volume of traffic due to the high school location and falls within a high-density pedestrian related crash cluster according to MassDOT Crash records available from 2012-2016. In an effort to slow down traffic speeds and safe and comfortable provide more accommodations for vulnerable road users such as pedestrians and bicyclists, it is recommended that the Town of Needham initiate a complete streets project along Webster Street. Elements to be incorporated may include the following:

- RRFB at the northern and southern crosswalks providing access to the high school as well as the crosswalk just north of May Street.
- Improved street lighting along the corridor, providing a more appealing and safer environment for pedestrians.
- Implement a safety speed 20 mph zone from Rosemary Street to May Street.
- Dedicated bicycle lanes along both sides of Webster Street. Bike lanes can be colored green within the vicinity of the high school for additional visibility

The improvements are depicted in Figure 9.

Implement 20 MPH Safety Speed Zone from Rosemary **Install High** Street to May Visibility Street Crosswalk with supplemental Needham RRFB system Memorial Park **Install High** Visibility Crosswalk with supplemental **RRFB** system Install dedicated bicycle lanes designated by green paint for enhance visibility and to provide additional contrast within the Safety Zone from Install High surrounding roadway Visibility segments Crosswalk with supplemental RRFB system

Figure 9. Potential Improvements for Webster Street

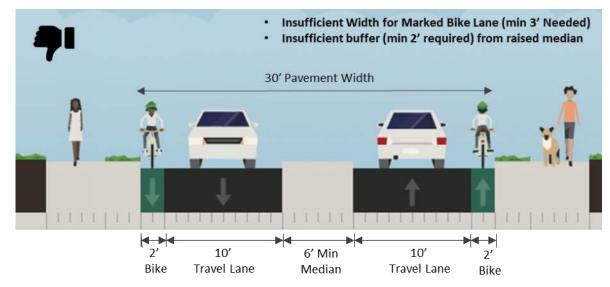


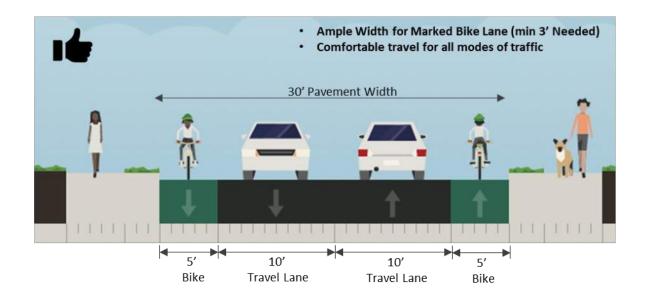
PEDESTRIAN SAFETY AUDIT

It should be noted that the installation of a raised island median was considered along Webster Street right in front of the High School. A raised median at this location would require a minimum width of 6 feet, although 8 feet is preferred according to industry standards. Webster Street, in the vicinity of the High School, has a varying curb to curb pavement width of approximately 30-36 feet. Within a 30' curb-to-curb cross section and utilizing a minimum 6-foot width raised median, there would not be enough room to safely allocate a dedicated bike lane (only 2' bike lanes would be available which is not allowed). Conceptual cross sections depicting the installation of a raised median verses no raised median are shown in Figure 10. As the Figure shows, the cross section with no raised median provides a much more comfortable roadway environment for all users.

To keep a consistent cross section and safely provide accommodations for all road users, it is recommended that a raised median not be installed along Webster Street at this time given the existing cross section. Should the Town want to consider a full roadway reconstruction project along the length of the Webster Street corridor, traffic calming elements, such as a raised median, could be considered if the roadway was widened to a consistent cross section.

Figure 10. Raised Median vs. No Raise Median Conceptual Cross Section







PEDESTRIAN SAFETY AUDIT Needham, Massachusetts

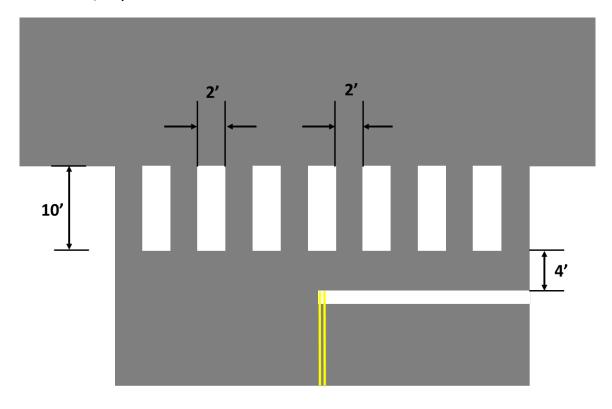
# 6.4 Pavement Markings

As the crosswalk inventory revealed, there are 52 crosswalk locations which had pavement markings in poor condition. Crosswalk markings legally establish a crossing location and are critical to providing visibility to both the motorist and pedestrian as to where people may be crossing. Therefore, the Town of Needham is recommended to incorporate an annual or biannual pavement marking maintenance program in which crosswalks are refreshed for enhanced visibility. Should the Town find that pavement markings are continually fading, the Town is recommended to experiment with a new paint or treatment for lasting durability.

Other communities in the Greater Boston region have installed 3-D Crosswalks near elementary schools which are intended to slow down drivers by means of the optical illusion. GPI does not recommend that the Town experiment with this alternative design as it is not supported by the FHWA, even under experimental status. This treatment depicts a 3-dimensional object which could be perceived as a real raised object on the roadway and thus drivers may take evasive action such as abruptly stopping or swerving upon seeing the markings. Given the potential for a significant percentage of drivers to react unpredictably, the risk is too high to even experiment with these treatments.

GPI recommends the Town install continental style crosswalks. Continental style crosswalks consist of equally spaced longitudinal lines of consistent width (as depicted below in Figure 11) and are generally considered safer because they are more visible to drivers as reported by the Federal Highway Administration (FHWA). A typical crosswalk/stop bar placing layout is depicted in Figure 11 and can be adopted by the Town of Needham.

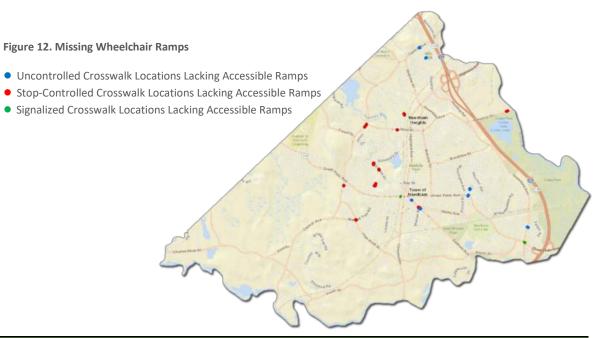
Figure 11. Crosswalk/ Stop Bar Placement and Dimensions





# 6.5 Wheelchair Ramps- Accessibility

Although ramp dimensions were not taken as part of this project to assess ADA compliancy, the availability of wheelchair ramps was documented. Table 7 identifies all crosswalk locations in which a lack of ramps was documented while Figure 12 graphically depicts each location. It is advised that the Town install ramps at these locations to ensure accessibility. Uncontrolled crossings should receive treatment first, followed by signalized and stop controlled intersections. In the future, the Town should consider conducting a town-wide curb ramp inventory to assess ADA compliancy system wide and make efforts to have all ramps accessible.



**Table 7. Missing Ramps** 

Crosswalk ID	Street	Location Description	Crosswalk ID	Street	Location Description
UN-001	Beaufort Avenue	Hawthorn Avenue	STP-070	Harris Avenue	Just northeast of Dedham Avenue
UN -002	Beaufort Avenue	Just north of Hawthorn Avenue	STP-074	High Rock Street	Just south of Marked Tree Road
UN -009	Central Avenue	Just east of Gould Street	STP-083	Hillside Avenue	Just south of Hunnewell Street
UN -014	Dedham Avenue	Just southwest of Lincoln Street	STP-084	Hillside Avenue	Just north of Hunnewell Street
UN -016	Dedham Avenue	Just southeast of Harris Avenue	STP-117	Marked Tree Road	Just west of High Rock Street
UN -018	Gould Street	Approx. 350 feet northeast of Ellis Street	STP-132	Meadowbrook Road	Just south of Nehoiden Street
UN -026	Great Plain Avenue	Just northwest of Wilshire Park	STP-133	Meadowbrook Road	Just west of Newell Avenue
UN -030	Greendale Avenue	Just south of Intervale Road	STP-148	Newell Avenue	Just south of Prospect Street/Lewis Street
SIG-025	Great Plain Avenue	West of Rail Crossing	STP-149	Newell Avenue	Just west of Lewis Street
SIG-030	Great Plain Avenue	East of Greendale Avenue	STP-163	Parish Road	Just north of Rosemary Street
SIG-031	Great Plain Avenue	West of Greendale Avenue	STP-164	Parish Road	Just east of Central Avenue
SIG-035	Greendale Avenue	North of Greendale Avenue	STP-176	Pond Street	Just east of Central Avenue
STP-001	4 <sup>TH</sup> Avenue	Just North of Kendrick Street	STP-184	Rosemary Street	Just east of Parish Road
STP-013	Blacksmith Drive	Just southwest of Nehoiden Street	STP-212	Warren Street	Just southwest of Dedham Avenue
STP-037	Dale Street	Just south of West Street	STP-221	West Street	Just east of Central Avenue



# 6.6 Traffic Signs

Traffic sign conditional assessments were collected for uncontrolled crosswalks (at crosswalk and advance pedestrian warning signs). Of the existing at crosswalk signage, approximately 11 signs do not adhere to MUTCD conformance and likely do not pass required nighttime retro-reflectivity standards (Table 8 and Figure 13). Therefore, these signs must be replaced by the Town to ensure nighttime visibility.

Nineteen (19) of the total 69 uncontrolled crossings do not have pedestrian warning signage at the crosswalk on either approach. These locations are listed in Table 9 and graphically depicted on Figure 14. It is recommended that the Town install pedestrian crossing warning signs (W11-2) mounted on the side of the roadway at the crossing, with diagonal down arrow plaques (W16-7P) for both approaches to enhance visibility of the crosswalk and provide the motorist with additional cues of a pedestrian crossing.

Of the existing advanced pedestrian signage, approximately 12 signs do not adhere to MUTCD conformance and likely do not pass required nighttime retro-reflectivity standards (Table 10 and Figure 15). Therefore, these signs must be replaced by the Town to ensure nighttime visibility. Twenty-five (25) of the total 69 uncontrolled crossings do not have pedestrian warning signage at the crosswalk on either approach. These locations are listed in Table 11 and graphically depicted on Figure 16. It is recommended that the Town install advance pedestrian warning signs (W11-2) with AHEAD plaque (W16-9P) for both approaches for additional warning where applicable.

Table 8. Pedestrian Warning Sign in Need of Replacement at Crosswalk

Crosswalk ID	Street	Location Description	Crosswalk ID	Street	Location Description
UN -009	Central Avenue	Just east of Gould Street	UN -030	Great Plain Avenue	Just south of Intervale Road
UN -012	Chapel Street	Near Needham Town Hall	UN -034	Highland Avenue	Needham Town Hall
UN -013	Chestnut Street	Just north of Junction Street	UN -042	Interstate 95 On Ramp	Just north of Highland Avenue
UN -028	Greendale Avenue	Approx. 210 feet north of Hamlin Lane	UN -068	Nehoiden Street	Just southwest of Meadowbrook Road

**Table 9. No Pedestrian Warning Sign Present at Crosswalk** 

Crosswalk ID	Street	Location Description	Crosswalk ID	Street	Location Description
UN -001	Beaufort Avenue	Hawthorn Avenue	UN -049	Map Hill Drive	Coleman Parking Lot
UN -014	Dedham Avenue	Just southwest of Lincoln Street	UN -051	Map Hill Drive	East of Mandell Family Hall
UN -017	East Drive	Just northeast of Olin Way	UN -057	Newell Avenue	From Meadowbrook Road to Lewis Street
UN -018	Gould Street	Approx. 350 feet northeast of Ellis Street	UN -058	Oak Street	Just east of Maple Street
UN -022	Great Plain Avenue	Glendoon Road to Maple Street	UN -059	Oak Street	Just west of Maple Street
UN -033	High Rock Street	Just south of Birchwood Road	UN -060	Olin Way	Approximately 165 feet north of Great Plain Ave
UN -036	Highland Avenue	Just east 1st Avenue	UN -061	Olin Way	From Govoni Field to Parcel B Access Road
UN -040	Hunnewell Street	Hillside Avenue	UN -067	West Street	Just west of Hillside Avenue
UN -041	Hunnewell Street	Hillside Avenue	UN -069	Greendale Avenue	South of Great Plain Avenue
UN -043	I-95 On Ramp	NB On-Ramp, Just north of Great Plain Ave			



Table 10. Advance Pedestrian Warning Sign in Need of Replacement

Crosswalk ID	Street	Location Description	Crosswalk ID	Street	Location Description
UN -013	Chestnut Street	Just north of Junction Street	UN -030	Great Plain Avenue	Just south of Intervale Road
UN -026	Great Plain Avenue	Just northwest of Wilshire Park	UN -061	Olin Way	From Govoni Field to Parcel B Access Road
UN -028	Great Plain Avenue	Approx. 210 feet north of Hamlin Lane	UN -068	Nehoiden Street	Just southwest of Meadowbrook Road
UN -029	Great Plain Avenue	Just south of Grosvenor Road	UN -069	Greendale Avenue	South of Great Plain Avenue

Table 11. No Advance Pedestrian Warning Signage Present Prior to Crosswalk

Crosswalk ID	Street	Location Description	Crosswalk ID	Street	Location Description
UN -001	Beaufort Avenue	Hawthorn Avenue	UN -036	Highland Avenue	Just east 1st Avenue
UN -003	Beaufort Avenue	Just north of Sargent Street	UN -037	Highland Avenue	Avery Square to Mark Lee Road
UN -009	Central Avenue	Just east of Gould Street	UN -040	Hunnewell Street	Hillside Avenue
UN -012	Chapel Street	Near Needham Town Hall	UN -041	Hunnewell Street	Hillside Avenue
UN -014	Dedham Avenue	Just southwest of Lincoln Street	UN -043	I-95 On Ramp	NB On-Ramp, Just north of Great Plain Ave
UN -017	East Drive	Just northeast of Olin Way	UN -049	Map Hill Drive	Coleman Parking Lot
UN -018	Gould Street	Approx. 350 feet northeast of Ellis Street	UN -051	Map Hill Drive	East of Mandell Family Hall
UN -021	Great Plain Avenue	Washburn Avenue to Linden Street	UN -057	Newell Avenue	From Meadowbrook Road to Lewis Street
UN -022	Great Plain Avenue	Glendoon Road to Maple Street	UN -058	Oak Street	Just east of Maple Street
UN -025	Great Plain Avenue	Just southeast of Hillcrest Road	UN -059	Oak Street	Just west of Maple Street
UN -033	High Rock Street	Just south of Birchwood Road	UN -060	Olin Way	Approximately 165 feet north of Great Plain Ave
UN -034	Highland Avenue	Needham Town Hall	UN -067	West Street	Just west of Hillside Avenue
UN -035	Highland Avenue	Just north of Oakland Avenue			



Figure 13. Uncontrolled Crosswalk Locations where Pedestrian Warning Signage is in Need of Replacement at Crosswalk



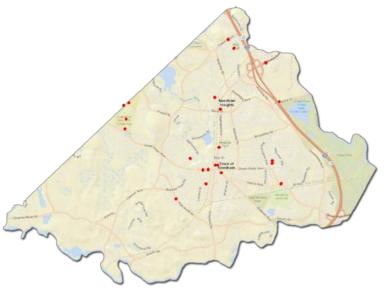
Figure 15. Uncontrolled Crosswalk Locations where Advance Pedestrian Warning Signage Needs to be Updated



Figure 14. Uncontrolled Crosswalk Locations where No Pedestrian Warning Signage is Present at Crosswalk



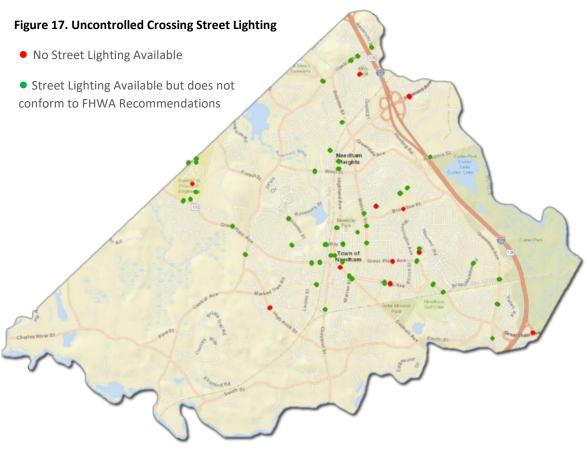
Figure 16. Uncontrolled Crosswalk Locations where No Advance Pedestrian Warning Signage is Present Prior to Crosswalk





# 6.7 Street Lighting

As indicated by the crosswalk inventory, of the total 69 uncontrolled crossings, 12 were lacking street lighting. For the 57 locations that reported having some sort of street lighting present, only 5% conform with the FHWA street lighting recommendations which states that for roadways that have traffic traveling in both directions, particularly those without a center median, two luminaries are required, located on either side of the road and placed prior to the crosswalk from the drivers' perspective. Table 12 identifies the 12 locations in which street lighting was not present. The Town should install lighting at these locations and do so in conformance with FHWA recommendations.



**Table 12. Uncontrolled Locations Lacking Street Lighting** 

Crosswalk ID	Street	Location Description	Crosswalk ID	Street	Location Description
UN -002	Beaufort Avenue	Just north of Hawthorn Avenue	UN -032	Harris Avenue	Just west of Pinewood Road
UN -006	Brookline Street	130 feet west of Dell Avenue	UN -033	High Rock Street	Just south of Birchwood Road
UN -014	Dedham Avenue	Just southwest of Lincoln Street	UN -036	Highland Avenue	Just east 1st Avenue
UN -017	East Drive	Just northeast of Olin Way	UN -042	I-95 On-Ramp	Just north of Highland Avenue
UN -018	Gould Street	Approx. 350 feet northeast of Ellis Street	UN -048	Manning Street	Just south of Lindbergh Avenue
UN -027	Great Plain Avenue	Greenwood Avenue to Pinewood Road	UN -067	West Street	Just west of Hillside Avenue



The inventory also concluded that of the remaining 57 uncontrolled crossings that did have street lighting available, 54 did not have a FHWA recommended, or preferred, layout (Table 13). Figure 18 depicts the traditional lighting design in comparison to the FHWA recommended or preferred design. The FHWA's Publication No. FHWA-HRT-08-053: Informational Report on Lighting Design for Midblock Crosswalks, released April 2008, documented in new recommendations for streetlighting at crosswalks. It should be noted that these recommended layouts are for municipalities to use as a tool rather than a standard or requirement they must meet. The preferred layout will aid Towns in obtaining optimal lighting levels should the infrastructure already be in place.

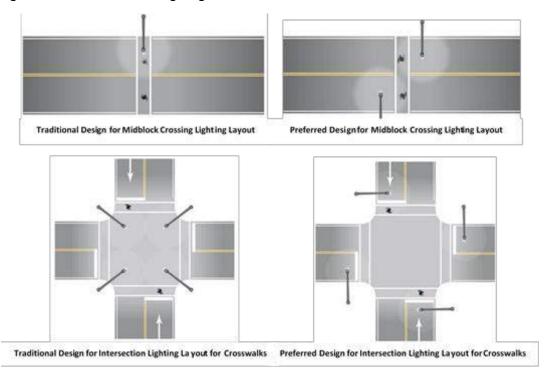
Prior to the new recommendations, many agencies installed a single luminaire directly over a midblock crosswalk. This practice provides high pavement luminance at the crosswalk but inadequately illuminates the pedestrian. The FHWA now recommends that for roadways that have traffic traveling in both directions, particularly those without a center median, two luminaries are required, located on either side of the road and placed prior to the crosswalk from the drivers' perspective.

Many crosswalks are located within intersections which pose many conflict points for pedestrians. Prior to FHWA's new recommendations, luminaries were positioned to provide a high level of pavement illuminance required in the

intersection and to light the potential conflict areas for the vehicles. This practice lights the side of the pedestrian facing the intersection and does not light the side of the pedestrian facing the approaching vehicle. Therefore, the FHWA now recommends that luminaries be located away from the intersection to provide light on the approach side of the pedestrian.

It is understood that street lighting is a costly expense for any municipality and given the current funding environment, a large funding source to relocate and install new lighting posts is not available. Therefore, it is recommended that the Town fiscally plan to modify street lighting placement where necessary to match that of the FHWA recommended layouts as part of future projects. In the meantime, it is recommended that the Town utilize the Smart Controls inclusive of the recent LED town wide retrofitting project to light crosswalks to the best of their ability given the existing infrastructure in place. Crosswalks should be lit at 1.5 times the illuminance as lighting not at a crosswalk. It is recommended that street lighting in the vicinity of a crosswalk be set at 80% Wattage between 1 AM and 5 AM and at 100% Wattage at all other times.

Figure 18. FHWA New Street Lighting Recommendations





PEDESTRIAN SAFETY AUDIT Needham, Massachusetts

Table 13. Street Light Available but does not Conform to FHWA Recommendations

Crosswalk ID	Street	Location Description	Crosswalk ID	Street	Location Description
UN -001	Beaufort Avenue	Hawthorn Avenue	UN-039	Hillside Avenue	Just south of Sunnyside Road
UN-003	Beaufort Avenue	Just north of Sargent Street	UN-040	Hunnewell Street	Just north of Hillside Street
UN-004	Bird Street	Broad Meadow Rd	UN-041	Hunnewell Street	Just south of Hillside Street
UN-005	Broad Meadow Road	Dawson Drive to Grosvenor Road	UN-043	Interstate 95 On Ramp	Northbound On-Ramp, Just north of Great Plain Avenue
UN-007	Central Avenue	Just north of Newman Elem. School Dwy	UN-044	Kingsbury Street	Just east of Admiral Gracey Drive
UN-008	Central Avenue	Just south of Cedar Street	UN-045	Lindbergh Avenue	Just east of Tower Avenue
UN-009	Central Avenue	Just east of Gould Street	UN-046	Lindbergh Avenue	Just west of Tower Avenue
UN-010	Central Avenue	Just west of St. Mary Street	UN-047	Manning Street	Just north of Lindbergh Avenue
UN-011	Central Avenue	Reservoir Street	UN-049	Map Hill Drive	Coleman Parking Lot
UN-013	Chestnut Street	Just north of Junction Street	UN-050	Map Hill Drive	West of East Drive
UN-015	Dedham Avenue	Just northwest of Warren Street	UN-051	Map Hill Drive	East of Mandell Family Hall
UN-016	Dedham Avenue	Just southeast of Harris Avenue	UN-052	May Street	Just west of Garden Street
UN-019	Great Plain Avenue	Just east of North Hill Avenue	UN-053	May Street	Just east of Garden Street
UN-020	Great Plain Avenue	Just east of Stockdale Road	UN-054	May Street	Just west of Pickering Street
UN-021	Great Plain Avenue	Washburn Avenue to Linden Street	UN-055	May Street	Just east of Pickering Avenue
UN-022	Great Plain Avenue	Glendoon Road to Maple Street	UN-056	Nehoiden Street	Just east of Meadowbrook Road
UN-023	Great Plain Avenue	Just west of Pickering Street	UN-057	Newell Avenue	From Meadowbrook Road to Lewis Street
UN-024	Great Plain Avenue	Just northwest of Broad Meadow Road	UN-058	Oak Street	Just east of Maple Street
UN-025	Great Plain Avenue	Just southeast of Hillcrest Road	UN-059	Oak Street	Just west of Maple Street
UN-026	Great Plain Avenue	Just northwest of Wilshire Park	UN-060	Olin Way	Approximately 165 feet north of Great Plain Avenue
UN-029	Greendale Avenue	Just south of Grosvenor Road	UN-061	Olin Way	From Govoni Field to Parcel B Access Road
UN-030	Greendale Avenue	Just south of Intervale Road	UN-063	Webster Street	Just north of May Street
UN-031	Harris Avenue	Just west of Stevens Road	UN-064	Webster Street	Just north of Holland Street
UN-034	Highland Avenue	Approx. 325 feet north of Great Plain Ave	UN-065	Webster Street	Approximately 180 feet south of Lindbergh Avenue
UN-035	Highland Avenue	Just north of Oakland Avenue	UN-066	West Street	Just west of Glen Gary Road
UN-037	Highland Avenue	Avery Square to Mark Lee Road	UN-067	West Street	Just west of Hillside Avenue
UN-038	Highland Avenue	Just west of Hunnewall Street	UN-068	Nehoiden Street	Just southwest of Meadowbrook Road



### 6.8 Crosswalk along Highland Avenue

Given the number of community concerns regarding the desire for a crosswalk along Highland Avenue in the vicinity of the stairs accessing the Memorial Field and the High School, GPI collected pedestrian counts to gage the need for a marked crosswalk. Video pedestrian counts were conducted on Thursday, November 29, 2018 from 6 AM to 6 PM and are depicted in Figure 19. Staff reported partly cloudy conditions and a high of 46 degrees. The data depicted two paths (one at the northern stairway and one at the southern stairway). The northern stairway had a daily ped crossing of 41 while the southern stairway had a daily ped crossing of 46. The peak hour at the northern stairway occurred from 11:30 AM to 12:30 PM as 17 pedestrian crossings were observed. The peak hour at the southern stairway occurred from 11:00 AM to 12:00 PM as 10 pedestrian crossings were observed. If these paths were consolidated, it would result in approximately 27 pedestrian crossings within the lunch hour, which is expected given that High School students are allowed off campus during lunch. An expected combined 27 pedestrian crossings would satisfy the MUTCD pedestrian volume threshold of 20 pedestrians per peak hour to install a consolidated crosswalk along **Highland Avenue.** 

Figure 19. Highland Avenue Pedestrian Counts



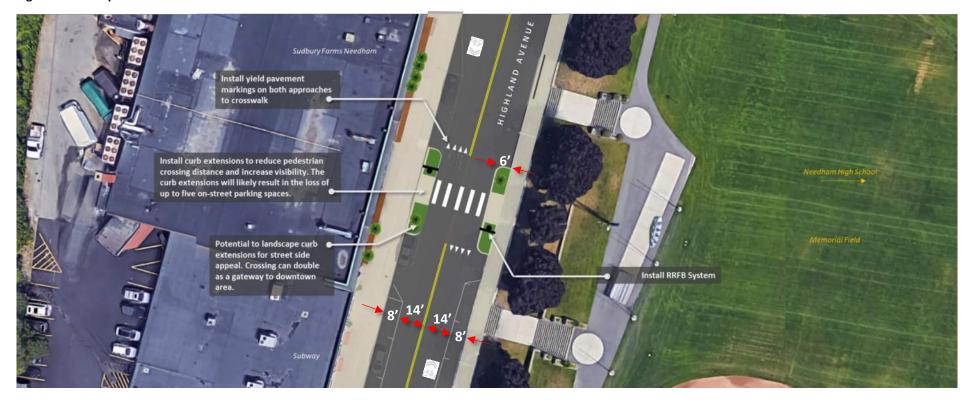


It is recommended that the Town of Needham consider the installation of a marked crosswalk along Highland Avenue to service the pedestrian demand at this location. An enhanced crossing at this location will change the context of Highland Avenue within this area and put more of an emphasis on all road users rather than just automobiles. It is recommended that one high visibility crosswalk, central of the two stairways, be installed in conjunction with curb extensions and an RRFB system.

Figure 20. Conceptual Plan View of Crosswalk

Since pedestrians are currently using these crossings, the installation of the RRFB and higher visibility crosswalk as shown, would have little impact on traffic operations.

Curb extensions improve the visibility of pedestrians waiting to cross the street and minimize the impact of parked cares on pedestrian visibility which is important in this busy downtown area. Curb extensions also reduce the pedestrian crossing distance and have the potential to slow down vehicle traffic through traffic calming means. Additional area within the curb extension can possibly be landscaped for street side appeal and act as a gateway into the downtown area. *The curb extensions will likely result in the loss of up to five on-street parking spaces.* Curb extensions should not be wider than 6 feet. RRFBs will enhance the pedestrian crossing by increasing driver awareness of potential pedestrian conflicts. RRFBs can be activated by pedestrians manually by a push of a button or passively by a pedestrian detection system. Figure 20 depicts a conceptual look of a potential crossing along Highland Avenue.





### 6.9 Dedham Ave. at Harris Ave. Intersection

The intersection of Dedham Avenue at Harris Avenue has been identified by Town Officials, as well as the community via the TMAC feedback, as a complex and dangerous location in which pedestrian safety is compromised due to long crossing distances and the uncontrolled nature of the existing crosswalks. This intersection falls within a high-density pedestrian related crash cluster according to the crash records pulled from MassDOT's Crash Portal from 2012-2016. The speed limit along Dedham Avenue in the vicinity of the intersection is 30 mph which is dropped from 40 mph a few hundred feet south of the intersection, resulting in the posibility of residual speeding. Ramps servicing the southern crosswalk on Dedham Avenue are non-ADA compliant.

The Town has complied several conceptual plans to address the intersection's complexity and provide a safer envinormant for all road users. Many of these concepts consits of realigning the southern leg of Warren Avenue to intersect Dedham Avenue perpendicularly and in line with Harris Avenue which would require roadway reconstruction and alteration to the green space. It is recommended that the Town move forward with a long term reconstruction project to address safety conerns at this intersection.

In the short term, however, it is recommended that the curb lines be pulled out and sidewalks/ramps be reconstructed at the northern side of Harris Avenue and southeast side of Warren Avenue. This will tighten curb radii

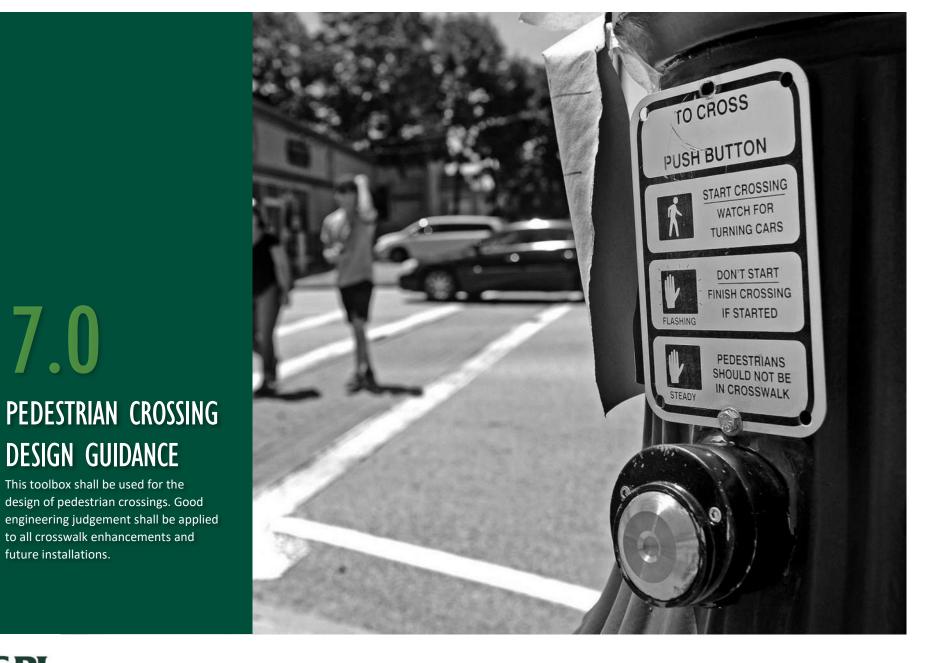
to facilitie slower turning speeds as well as reduce the pedestrian crossing distance. It is recommended that the existing crosswalks north and south of the intersection be abandoned and a new marked continental crosswalk be installed just north of Harris Avenue. This crosswalk can be enhanced via a Rectangular Rapid Flashing Beacon for additional visibility. These short term improvements are depicted below in Figure 21.

Figure 21. Short Term Improvement at Dedham Avenue/Warren Avenue/Harris Avenue Intersection





PEDESTRIAN SAFETY AUDIT Needham, Massachusetts

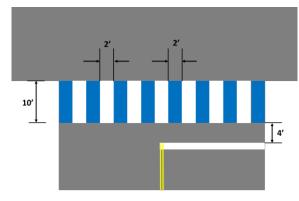




### 7.1 PAVEMENT MARKINGS

Treatment Type	Objective	Advantages	Disadvantages	Cost			
Table 14. Pavement Markings/ Pa	Table 14. Pavement Markings/ Pavement Treatments:						
High-Visibility Markings	To provide drivers with greater information where pedestrians may not be expected to cross the street	Improves the visibility of the crossing for approaching drivers and for pedestrians with hindered vision	Cost of installation and maintenance	\$500- \$1,000 per crosswalk			
Textured Surfaces	To increase driver attentiveness when approaching marked crosswalks	Textured surfaces help crosswalks standout and also provide a tactile cue to help those with sight impairment.	<ul> <li>High construction and maintenance costs</li> <li>Does not provide smooth, accessible surfaces for pedestrians</li> <li>May present problems for wheelchair accessibility</li> </ul>	\$10,000 - \$35,000 per crossing			
Colored Paint	To emphasis presence of the crosswalk	Draws more attention to the crosswalk to alert drivers	Certain colors may degrade the contrast of white crosswalk lines	\$500- \$1,000 per crosswalk			
Advance Stop Bar/Yield Lines	To provide motorists with a clear indication as to where they are required to stop or yield in advance of a pedestrian crossing	-Improves visibility of pedestrians to motorists - Prevents multiple threat crashes (on multi-lane roadways where one vehicle stops too closely to the crosswalk and blocks view of pedestrian crossing while vehicle continues to travel in the adjacent lane)	<ul> <li>Motorists may ignore markings if placed too far in advance of crosswalk.</li> <li>Maintenance costs</li> <li>May result in a loss of on-street parking</li> </ul>	\$300 - \$350			

As previously stated, GPI recommends that the Town adopt a continental style crosswalk as their standard as they are generally safer because they are more visible to drivers. The Town of Needham has expressed interest in incorporating the "Needham Blue" into the continental style crosswalks as depicted to the right. It is anticipated these the colored treatment will be used in high pedestrian activity areas such as Downtown Needham.





PEDESTRIAN SAFETY AUDIT Needham, Massachusetts

### 7.2 TRAFFIC SIGNS

Treatment Type	Objective	Advantages	Disadvantages	Cost
Table 15. Signs:				
Pedestrian Crossing Signage - W11-2 & W16-9P (Ahead) - W11-2 & W16-7P (Arrow)	To improve the pedestrian environment by reminding drivers to obey the law and yield to pedestrians in the crosswalk	Helps direct driver attention to pedestrian crossing	-Not useful to visually impaired pedestrians -The overuse of signs may counteract their effectiveness over time	\$200 - \$300 per sign
In-Road Pedestrian Signage - R1-6 (Yield) - R1-6a (Stop)	In-road visual cue that there is a crosswalk	-Help direct driver attention to pedestrian crossing	-Prone to get hit -Not sustainable during winter months -Must be supplemented with other devices	\$200 - \$300 per sign
School Zone Signage - S1-1 & W16-9P (Ahead) - S1-1 & W16-7P (Arrow) - S4-3P & R2-1 & S4-1P - S5-2	To improve the school environment by alerting drivers that they are entering a school zone and must slow down by law	-Helps direct driver attention to pedestrian crossing - Slows down vehicle speeds in the vicinity of children as stated by law	-Not useful to visually impaired pedestrians -The overuse of signs may counteract their effectiveness over time	\$200 - \$300 per sign
Active Driver Feedback Signs	Alert drivers that they are speeding and create a sense of being monitored	-Decreases vehicle speeds -No disturbance to emergency vehicles or physical change to the roadway -Can be powered by electric meter or solar power -Can be portable or permeant	-May promote speeding to register high speed reading -Effectiveness may decrease over time -Subject to vandalism	\$25,000 (for a permanent treatment)









**School Zone Signage:** All school warning signage, including any supplemental plaques used in association with these warning signs, shall have a fluorescent yellow-green background with a black legend and border as stated in the Massachusetts Amendment to the MUTCD.

**MUTCD Pedestrian Crossing Signs:** Crosswalks located at midblock crossings or uncontrolled intersections should be equipped with proper signage that is consistent with MUTCD (Manual on Uniform Traffic Control Devices) guidelines. Existing non-compliant pedestrian signage should be replaced with compliant signage to be more easily recognized by motorists and command driver respect. Pedestrian Crossing Signage shall not be placed at stop-controlled approaches or signalized controlled approaches.

**Reflective Post Strip:** Reflective strips can be applied to signposts for enhanced visibility. GPI recommends the Town install retroreflective tape or strips, based on the existing signpost, with the following sign assembly (W1-1/W16-7P or S1-1/W16-7P) to emphasize the actual location of crosswalks.



PEDESTRIAN SAFETY AUDIT Needham, Massachusetts

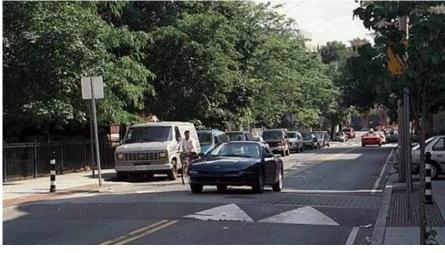
### 7.3 SUPPLEMENTAL TRAFFIC CALMING DEVICES

Treatment Type	Objective	Advantages	Disadvantages	Cost			
Table 16. Supplemental Traffic Ca	Table 16. Supplemental Traffic Calming Devices:						
Curb Extensions	To improve the visibility of pedestrians waiting to cross the street and minimizing the impact of parked cars on pedestrian visibility	- Reduces the distance that pedestrian travel in the street and the potential for being stuck by a vehicle Improves the visibility of the pedestrian Slows down traffic from traffic calming.	- Fixed objects in roadway can cause difficult for drivers May hinder plowing operations during winter months May have a negative impact on the turning ability for large vehicles - May result in a loss of on-street parking - May require drainage modifications	\$5,000 - \$25,000 per extension			
Raised Crosswalks/ Raised Intersections	To control traffic speeds approaching and traveling over the crosswalk to improve the safety of pedestrians	<ul> <li>Helps to focus activity in the desired location since the pedestrian crossing is highlighted</li> <li>Slows down traffic from traffic calming</li> </ul>	<ul> <li>Cost of installation</li> <li>May require drainage modifications</li> <li>May result in issues for transit and emergency vehicles due to vertical deflection</li> <li>May pose difficulty for snow removal</li> </ul>	\$5,000 - \$30,000 for raised crosswalk \$25,000 - \$100,000 for raised intersection			
Raised Medians (Pedestrian Refuge Islands)	To separate opposing streams of traffic and provide a crossing area that is physically separated from the vehicle path of travel	<ul> <li>Improves visibility of crossing pedestrians to motorists</li> <li>Reduces pedestrian crossing distances</li> <li>Slows down traffic from traffic calming</li> <li>Opportunity for landscaping and street aesthetics (lighting)</li> </ul>	<ul> <li>Cost of installation and maintenance</li> <li>May restrict left turns for businesses/homes/ etc.</li> <li>May result in a loss of on-street parking</li> <li>May require drainage modifications</li> </ul>	\$5,000 - \$40,000 depending on length and landscaping			









### SUPPLEMENTAL TRAFFIC CALMING DEVICES

**Top Left:** Example of a curb extension. Curb extensions can be installed on wide roadways with an on-street parking lane that can create difficult crossing situations for pedestrian. Examples of roadways suitable for curb extensions are Highland Avenue in the vicinity of Memorial Field and Great Plain Avenue in the vicinity of the MBTA Station

**Top Right:** Example of a raised crosswalk treatment. Raised crosswalks are best suited along local roadways with a speed limit of 30 mph or less, an annual average daily traffic below 9,000 vehicles, and a high pedestrian demand. Raised crosswalks can be used on local roads servicing elementary schools such as Brookline Street.

**Bottom Left:** Example of a Raised Median with pedestrian refigure island. Raised medians with pedestrian refuge islands are recommended along collector roads with moderate-to-high speeds at midblock locations where ROW is adequate to meet minimum width requirements.



### 7.4 CROSSING BEACONS/ PEDESTRIAN SIGNALS

Treatment Type	Objective	Advantages	Disadvantages	Cost		
Table 17. Crossing Beacons/Pedestrian Signals:						
Pedestrian Signal Timing	Provide adequate time for pedestrians to cross at a signalized intersection based on historical walking speeds amongst ages. Signal timing should be consistent with MUTCD standards for adequate clearance time.	- Exclusive phase provides dedicated timing for pedestrian crossing only and eliminates ped/vehicle conflicts -Concurrent timing provides permissive phase for pedestrian crossing while allowing parallel vehicles to continue with progression	- Exclusive phasing may have detrimental effect on signal automobile level of service especially locations with high pedestrian volumes -Concurrent timing allows left and right turning vehicles which results in ped/vehicle conflict in crosswalk	Signal Re-timing costs depend on staff resources and hourly costs		
Right Turn on Red Restrictions	Restricts vehicles from turning right on a red signal indication to allow for pedestrians to cross without conflict	- Eliminates conflict point between pedestrians in crosswalk and right turning vehicles	<ul> <li>May be detrimental to intersection</li> <li>LOS especially at intersection with</li> <li>heavy right turn movements.</li> <li>-May promote rear-end collisions as</li> <li>some vehicles expect to be able to</li> <li>turn on red</li> </ul>	Static signs are approximately \$250 and electronic blinking signs are approximately \$3000		
HAWK Signals	Facilitate pedestrian travel in instances where traffic signal warrants were not met.	- Provides pedestrians with clear interval to safely cross street -Great for midblock crossing locations that do not warrant an actual traffic signal - Counteracts multiple threat crashes on multilane roadways	-Still fairly new and may be confusing to motorists -Pedestrians may not use indicators or may not be detected -Costly	Approximately \$50,000 - \$120,000		
Rectangular Rapid Flashing Beacons	Enhance safety by reducing crashes between vehicles and pedestrians at unsignalized intersections and mid-block pedestrian crossings by increasing driver awareness of potential pedestrian conflicts	<ul> <li>Reduces pedestrian crashes up to 47%</li> <li>Alerts motorists to pedestrian crossing location with flashing beacons</li> </ul>	- Pedestrians may not use push button -Vehicles may not yield -All components must adhere to MUCTD and ADA accessibility requirements -Overuse may diminish their effectiveness	Approximately \$25,000		



## RECTANGULAR RAPID FLASHING BEACONS

RRFBs can enhance safety by reducing crashes between vehicles and pedestrians at unsignalized intersections and mid-block pedestrian crossings by increasing driver awareness of potential pedestrian conflicts. RRFBs can be activated by pedestrians manually by a push of a button or passively by a pedestrian detection system. When activated, they emit an irregular flash pattern that is similar to emergency flashers on police vehicles. The Federal Highway Administration (FWHA) has concluded that RRFBs are dramatically more effective at increasing driver yielding rates to pedestrians than traditional overhead beacons. A combined roadside and median system can further increase driver yielding behavior.

As previously stated, GPI endorse the use of RRFBs at locations where the measures is appropriate given the roadway context. Eight locations are currently under design for the installation of RRFBs to enhance the pedestrian crossing.

### HAWK SIGNALS

A High-Intensity Activated Crosswalk Beacon, otherwise known as a HAWK signal, according to the MUTCD, is a special type of hybrid beacon used to warn or control traffic at an unsignalized location to assist pedestrians in crossing a street at a marked crosswalk. HAWK signals are commonly considered at locations to facilitate pedestrian travel in instances where traffic signal warrants were not met. Warrants for a HAWK signal are dependent on the number of pedestrian crossings per hour, the vehicular volume per hour, the speed limit, and the length of the crossing. The HAWK

signal consists of two horizontally aligned red lenses above a single yellow lens. When not activated, all signal lenses are dark or unlit. When a pedestrian activates the HAWK by pushing an accessible pedestrian push button located on a post/pole near the intersection, the actuated beacons begin to flash yellow to warn motorists that the system has been activated. The yellow lenses will then turn to a steady yellow. This is followed by a steady red indication. When the steady red indication is on, the pedestrian walk symbol is simultaneously presented to pedestrians allowing them to safely cross the roadway. When the WALK indication turns to a flashing DON'T WALK indication, the steady red lenses begin to flash alternating lenses. Once the pedestrian clearance interval has ended, the lenses will turn be unlit until the system is pedestrian activated again.

According to a study published by the Federal Highway Administration (FHWA) in 2010, HAWK signals have been found to reduce pedestrian crashes by 69 percent and total crashes by 29 percent. The HAWK is also very effective in regards to motor vehicle compliance, in which yield rates have been shown to exceed 90 percent at pedestrian hybrid beacons.

A HAWK signal was recently installed on Greendale Avenue at Rybury Hillway and Bird Street with success following the construction of a new residential development.



### **HAWK Signal at Greendale Avenue**

The crosswalk just south of Grosvenor Road on Greendale Avenue was initially identified by GPI as a potential high-risk location given several community concerns, the uncontrolled nature of the crosswalk and high speeds along Greendale Avenue. This location could be a candidate for a HAWK signal given the pedestrian volume thresholds are met. Further engineering study is required.



### 7.5 ACCESSIBILITY

Treatment Type	Objective	Advantages	Disadvantages	Cost
Table 28. Accessibility:				
Curb Ramps	Provide access between sidewalk and street crossing as mandated by ADA Regulations	<ul> <li>Provides safe access to street crossings</li> <li>Improves accessibility to sidewalks</li> <li>Aids those who are disabled</li> </ul>	- Must follow ADA design guidelines	Approximately \$3500 per ramp
Sidewalks	Provides designated area for pedestrian to walk along a roadway	<ul> <li>Safe, designated area for pedestrians</li> <li>Enhances accessibility for all pedestrians</li> </ul>	<ul> <li>Must follow ADA design guidelines</li> <li>May require right of way acquisition</li> <li>Maintaining and record keeping</li> <li>Can be costly depending on materials used</li> </ul>	Can be costly depending on materials used and curbs if present.
Pedestrian Push Buttons	Provides pedestrians wit ha way to place a request to cross. Provides audible and tactile ques as to when it is safe to cross a signalized intersection	-Provides guidance to those visually impaired - Provides pedestrians with sense of reassurance of an upcoming pedestrian indication	- May be ignored or may be misused and result in pedestrian calls with no pedestrians actually crossing - Must follow ADA design guidelines/MUTCD/MassDOT placement guidelines in terms of height and reach. May require additional posts and conduit to meet accessibility -Audible noises may be have negative connotation for adjacent homeowners	- Approximately \$1000 for push button, supplemental direction sign and post

**CURB RAMPS:** When a pedestrian facility meets a roadway crossing, curb ramps must be provided. The maximum running slope allowable for ramps is 8.33 percent. The tops and bottoms of curb ramps should have a level landing area, which may be shared between two curb ramps on the same corner. These are locations where a person using a mobility derives may change their direction of travel without risk of tipping over or hitting objects. Landing areas should be a minimum of 48 inches by 48 inches and may not exceed 1:50 (2 percent) slope in any direction. Detectable warning panels will be applied to all accessible wheelchair ramps existing at every crossing location. Detectable warning panels are equipped with truncated domes along the surface to alert those who are visually impaired that they are about to enter a potentially dangerous situation. Detectable warning surfaces are identical in width to the curb ramp or sidewalk, but their length is always 2 feet. They should not be placed in medians less than 6 feet.

**PUSH BUTTONS:** Accessible pedestrian signals (APS) are required at all signalized crossing and should be installed at new and significantly repaired signals, utilizing touch and sound for people with visual disabilities. Electronic speakers at a push button emit sounds to announce its location and notify pedestrians when the walk signal is on. A tactile arrow that can be felt with a hand, points pedestrians in the proper direction. Accessible pedestrian signal devices should be located close to the crossing. They must be less than 6 feet from the edge of the curb, within 5 feet of the crosswalk, and not higher than 42 inches from the finished sidewalk. Buttons need to be parallel to the associated crosswalk, making it clear which button should be used to cross the roadway. In addition, reach to the accessible device must not exceed 10 inches from the level landing if obstructions are present, such as a curb or signal foundation.



### 7.6 LIGHTING

Treatment Type	Objective	Advantages	Disadvantages	Cost
Table 29. Lighting:				
Street Lighting	Provide adequate lighting of crosswalk	<ul> <li>When placed correctly, drastically improves visibility of pedestrians during night time conditions</li> <li>Improves sense of security and safety</li> </ul>	- Potential negative effect for home owners in neighborhood settings	\$7,500 per street light, \$15,000 per crosswalk (one streetlight per approach)
In-Pavement Lighting	Provides supplemental lighting of the crosswalk within the pavement	<ul> <li>drastically improves visibility of pedestrians during night time conditions</li> </ul>	- Maintenance - May not withhold snow removal season	Approximately \$20,000 per crosswalk

### **GPI Recommended Street Lighting Placement**

- Street lights should be at least 20 lx and placed approximately 10 feet in advance of the crosswalk.
- Street Lighting at Midblock Crosswalks The FHWA recommends that for roadways that have traffic traveling in both directions, particularly those without a center median, two luminaries are required, located on either side of the road and placed prior to the crosswalk from the drivers' perspective.
- Street Lighting at Intersection Crosswalks The FHWA recommends that luminaries be located away from the intersection to provide light on the approach side of the pedestrian.

### **GPI In-Pavement Lighting Recommendation**

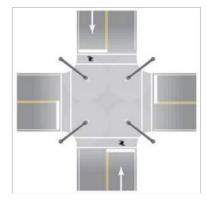
Although in-pavement lighting has the ability to drastically improve the visibility of pedestrians during nighttime conditions, GPI does not recommend the use of such treatment due to the natural climate of New England. It is likely that with snow removal, the devices will be destroyed, requiring annual heavy maintenance costs.

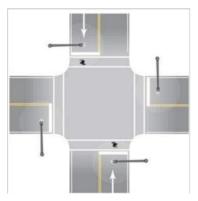


Traditional Design for Midblock Crossing Lighting Layout



Preferred Design for Midblock Crossing Lighting Layout







PEDESTRIAN SAFETY AUDIT Needham, Massachusetts

### 7.7 EDUCATION & ENFORCEMENT

Treatment Type	Objective	Advantages	Disadvantages	Cost				
Table 20. Education and Enforcer	Table 20. Education and Enforcement:							
Police Enforcement	Provide an immediate impact on reduction of motor vehicle speeds	-Immediate Impact -Additional Safety -Opportunity for increased awareness -Opportunity for anecdotal information	-Costly -Not a permanent solution -May no be the best allocation of police resources	- Varies based on PD Resources				
Pedestrian/Driver Education	Communicate to the public the goals and objectives of the pedestrian safety audit and the importance of understanding how to share the road with one another	<ul> <li>Most readily available resources         _Inexpensive     </li> <li>Opportunity for community         awareness     </li> <li>Opportunity to collect anecdotal information</li> <li>Educate young drivers</li> </ul>	- Not as effective as enforcement or engineering measures	-Varies based on efforts				







### CONCLUSIONS

As residents continue to voice concern over pedestrian safety throughout town, it is the intent that this Pedestrian Safety Audit will provide Needham with the tools and guidance necessary to efficiently and adequately implement pedestrian safety improvements at crosswalks throughout Town.

### Some Key Takeaways...

- Comments from the community were used to identify locations of top concern as well as identify specific areas such as street lighting, speeding, and signage that need improvement. Comments received by residents helped shape the report and prioritize implementation efforts where they are needed most.
- At this time, GPI recommends no change to the town-wide statutory speed limit of 30 miles per hour but rather to focus on implementing 20-mph speed safety zones in areas where vulnerable users may be present and enforcement efforts can be targeted. Should the implementation of safety speed zones deem successful (i.e. reduction in travel speeds and collisions) through proper enforcement, the Town should revisit the topic and allocate additional funding to enforcement efforts and educational campaigns.

- In total, GPI identified 5 roadways segments that warranted further evaluation for the implementation of a safety zone based on adjacent land use, number of access points along a given segment (including crosswalks, driveways and side streets), and segment length.
- RRFB Crossing Beacons should be installed at crosswalks located within Speed Safety Zones, School Zones
  or as necessitated by the methodology outlined in Section 4 of this Study.
- GPI recommended a crosswalk evaluation and installation policy based on current industry standards for signalized intersection, stop-controlled intersections, and uncontrolled crossings. Midblock crossings should be installed with special care and supplemental devices may be used in conjunction to enhance pedestrian safety at these locations.
- A comprehensive crosswalk inventory was conducted in early 2019. This inventory is housed in an ESRI
  geodatabase which will allow Needham officials to further track assets, query and filter for maintenance
  efforts based on attribute information and make well informed decisions regarding future implementation.
- Several pedestrian safety enhancement projects were identified based on the results of the crosswalk inventory including the following:
  - o Provide pedestrian enhancement treatments at 8 high-risk crosswalk locations.
  - o Implement Safety Speed Zones at 5 roadway segments throughout Town.
  - o Initiate a complete streets project along Webster Street and designate this corridor as a safety corridor in Town. Treatments may include RRFBs, raised intersections and designated bike lanes.
  - The Town should implement an annual pavement marking program and track markings with the ESRI geodatabase to efficiently prioritize maintenance efforts.
  - The Town should install wheelchair ramps at crosswalk locations currently lacking ramps to ensure accessibility throughout the pedestrian network. In the future, the Town is advised to conduct a curb ramp inventory to assess ADA compliance and gear efforts to attain a fully accessible network.
  - It is advised that the Town update traffic signs in poor condition or in non-conformance with MUTCD standards. It is also recommended that pedestrian warning signage be installed at uncontrolled crossings lacking any signage to provide enhance visibility. The Town should implement a bi-annual pedestrian traffic sign program and track signs with the ESRI geodatabase to efficiently prioritize maintenance efforts.
  - The Town should install street lighting at midblock crosswalks currently lacking any street lighting to enhance visibility during nighttime conditions. In the future, the Town should modify/add lighting at locations where lighting does not conform to FHWA recommendations.
- A pedestrian crossing design toolbox was provided to identify advantages/disadvantages of several pedestrian crossing treatments that can be implemented at crosswalks throughout town.



GPI thanks the Town of Needham for their support in developing this Pedestrian Safety Audit. It is our hope, that by utilizing this Report as a guideline to enhance and install crosswalk locations that the Town of Needham see a reduction in the number/severity of pedestrian related crashes, an increase in mobility and health amongst its residents, an improvement in walkability and accessibility for all its residents regardless of age, race, or socioeconomic status, and lastly, a sense of community.







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### **APPENDIX**

- A. Preliminary High-Risk Crosswalk Locations Report
- B. Crosswalk Inventory Attribute Lists & Maps
- C. Traffic Counts
- D. MassDOT Crash Data

# PRELIMINARY HIGH-RISK CROSSWALK LOCATIONS



### **Prepared By:**

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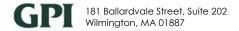


### Prepared for:

Town of Needham, MA; Engineering Department 500 Dedham Avenue Needham, MA 02492



### October 2018



As part of the Town wide Pedestrian Safety Audit, GPI was tasked with identifying preliminary crosswalk locations that could benefit from immediate upgrades; including the installation of Rectangular Rapid Flashing Beacons (RRFBs). It is noted that only midblock crossing or "uncontrolled" crossings were selected as part of the preliminary audit. The following 8 site locations were selected based on several criteria including roadway classification, traffic speeds, proximity to schools, transit, religious centers, parks, and civic destinations, adequacy of existing street lighting, the occurrence of pedestrian related collisions and community referenced locations. Recommendations were based preliminary assessment and additional enhancements at these locations recommended as additional data and analysis is completed as part of the full Audit. The following section of this report provides aerial representation of each site location as well as a brief description of existing condition and a reasoning behind each selection.

### In no specific order:

- 1. Webster Street at May Street
- Webster Street at High School (north)
- 3. Webster Street at High School (south)
- 4. Central Avenue at Newman Elementary
- Great Plain Avenue at Hillcrest Road
- 6. Great Plain Avenue at North Hill Avenue
- 7. Great Plain Avenue at Wilshire Park
- 8. Great Plain Avenue at Broad Meadow Road



Both Webster Street and May Street are collector roads in the Town of Needham. Webster Street experiences a high volume of traffic due to the high school location.

#### **Vehicle Speeds**

Both Webster Street and May Street have prima facie speed limits of 30 mph. Additional speed and volume data will be obtained as part of the comprehensive pedestrian safety audit.

#### **Pedestrian Related Collisions**

This crosswalk location falls within a high-density pedestrian related crash cluster according to MassDOT Crash records available from 2012-2016. Additional local crash reports are to be obtained and analyzed as part of the comprehensive pedestrian safety audit.

### Proximity to Schools, Transit, Parks, Religious Centers, Civic Destinations

This crosswalk is located within a quarter of a mile of Needham High School as well as two private catholic schools: Monsignor Haddad Middle School and St. Joseph's Elementary School.

#### **Existing Street Lighting**

This crosswalk location falls within an area with potentially inadequate street lighting. Existing lighting shall be further investigated as part of the comprehensive study and shall be compared to FHWA Standards to accurately recommend appropriate measures.

#### **Community Input**

This crosswalk location was the most heavily refered safety concern within the community input documentation.

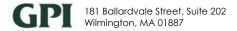
### WEBSTER STREET AT MAY STREET



**Existing Conditions**: The standard marked crosswalk on Webster Street is uncontrolled. No pedestrian crossing signage is present. May Street is STOP sign controlled. Vehicles approaching the intersection from the west on May Street may experience poor sight lines due to the tree line in both directions on Webster Street, the utility pole in the northwest corner of the intersection as well as the vegetation and fence in the northwest corner. Ramps are lacking detectable warning panels and accessibility should be examined for conformance to current ADA standards. Street lighting is present in the northwest and southwest corners of the intersection. Pedestrians crossing Webster Street from the east may be difficult to see at night. Existing curb radii at the intersection are large resulting in a long crossing distance along May Street.

**Initial Recommendations**: To supplement the marked crosswalk along Webster Street, a pedestrian actuated Rectangular Rapid Flashing Beacon (RRFB) system (S1-1/W16-7P assembly) shall be installed as well as advanced pedestrian crossing signage. Crosswalk markings shall be refreshed.

**Further Recommendations** may be suggested at this intersection as part of the Full Pedestrian Safety Audit, including tightened curb radii at May Street to reduce crossing distance and increase pedestrian visibility. Additional street lighting may be warranted especially in the southeast corner of the intersection.



### WEBSTER STREET AT MAY STREET





Webster Street is a collector roadway in the Town of Needham. Webster Street experiences a high volume of traffic due to the high school location.

#### Vehicle Speeds

Webster Street has a prima facie speed limit of 30 mph. Additional speed and volume data will be obtained as part of the comprehensive pedestrian safety audit.

#### **Pedestrian Related Collisions**

This crosswalk location falls within a high-density pedestrian related crash cluster according to MassDOT Crash records available from 2012-2016. Additional local crash reports are to be obtained and analyzed as part of the comprehensive pedestrian safety audit.

### Proximity to Schools, Transit, Parks, Religious Centers, Civic Destinations

This crosswalk is located within a quarter of a mile of Needham High School.

#### **Existing Street Lighting**

This crosswalk location falls within an area with potentially inadequate street lighting. Existing lighting shall be further investigated as part of the comprehensive study and shall be compared to FHWA Standards to accurately recommend appropriate measures.

#### **Community Input**

This crosswalk location was a heavily refenced safety concern within the community input documentation.

### WEBSTER STREET AT HIGH SCHOOL (NORTH)



Existing Conditions: The existing marked hatch (zebra) style crosswalk along Webster Street is uncontrolled. There is existing pedestrian crossing signage with flashing LED border lighting; however, the sign is flashing continuously rather than only when pedestrians are present. This could result in drivers becoming accustomed to the sign and not reacting accordingly when a pedestrian is actually in the crosswalk. Advanced pedestrian crossing signage (S1-1/W16-9P assembly) is present for both directions on Webster Street. Sight lines are adequate for both approaches. Ramps are lacking detectable warning panels and accessibility should be examined for conformance to current ADA standards. Street lighting exists just north of the crosswalk on the western side of Webster Street, but no lighting is available for the eastern side.

**Initial Recommendations**: To supplement the marked crosswalk along Webster Street, the LED flashing sign should be replaced by a pedestrian actuated RRFB system (W1-1/W16-7P assembly). New, updated advanced pedestrian crossing signage shall be installed as well. Crosswalk markings shall be refreshed.

**Further recommendations** may be suggested at this location as part of the Full Pedestrian Safety Audit, including geometric modifications to the high school entrance to reduce the curb radii in the northwest corner of the intersection which currently may facilitate high speed turning movements. Curb extensions may also be explored to reduce the crossing distance along Webster Street and potentially slow down vehicle speeds. Additional street lighting may be warranted for the eastern ramp of the Webster Street crossing.







Webster Street is a collector roadway in the Town of Needham. Webster Street experiences a high volume of traffic due to the high school location.

### **Vehicle Speeds**

Webster Street has a prima facie speed limit of 30 mph. Additional speed and volume data will be obtained as part of the comprehensive pedestrian safety audit.

#### **Pedestrian Related Collisions**

This crosswalk location falls within a high-density pedestrian related crash cluster according to MassDOT Crash records available from 2012-2016. Additional local crash reports are to be obtained and analyzed as part of the comprehensive pedestrian safety audit.

### Proximity to Schools, Transit, Parks, Religious Centers, Civic Destinations

This crosswalk is located within a quarter of a mile of Needham High School.

### **Existing Street Lighting**

This crosswalk location falls within an area with potentially inadequate street lighting. Existing lighting shall be further investigated as part of the comprehensive study and shall be compared to FHWA Standards to accurately recommend appropriate measures.

### **Community Input**

This crosswalk location was a heavily refenced safety concern within the community input documentation. There were two fatalities at this crossing in 2018, and as a result this area has become a major concern for the public and town officials.

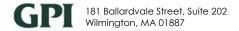
### WEBSTER STREET AT HIGH SCHOOL (SOUTH)

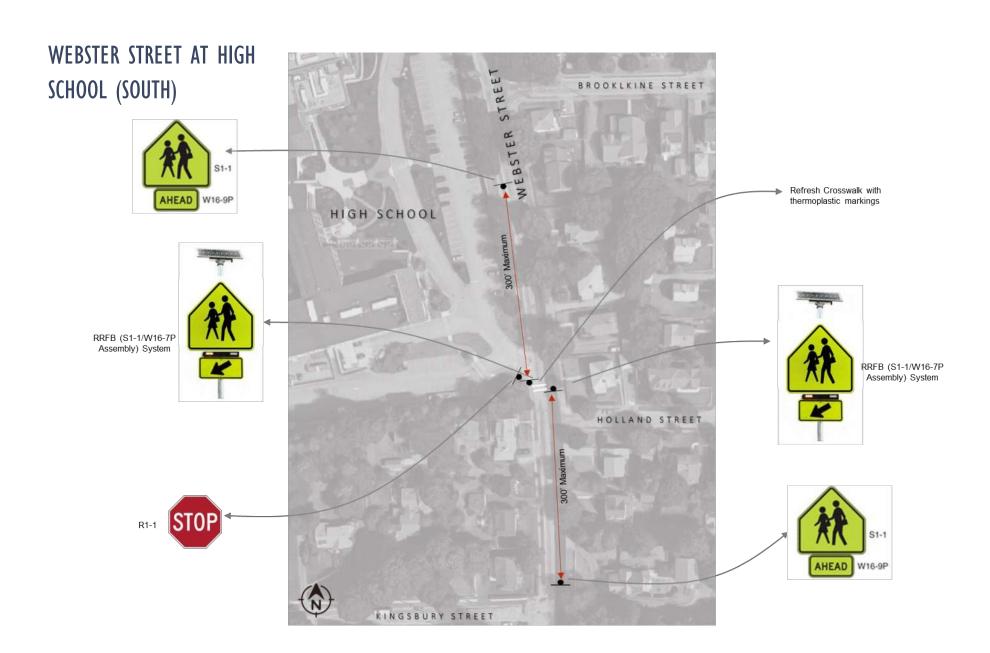


Existing Conditions: The existing marked hatch (zebra) style crosswalk along Webster Street is uncontrolled. There is existing pedestrian crossing signage with flashing LED border lighting; however, the sign is flashing continuously rather than only when pedestrians are present. This could result in drivers becoming accustomed to the sign and not reacting accordingly when a pedestrian is actually in the crosswalk. There is no advanced warning signage. The crosswalk is located just south of the Needham High School exit in which many vehicles exit right towards the crosswalk and sight lines may be compromised due to the existing geometry and tree line. Street lighting is present on the west side of Webster Street approximately 85 feet north of the crosswalk and 55 feet south of the crosswalk which may not be adequate to efficiently light the crossing. Ramps are lacking detectable warning panels and accessibility should be examined for conformance to current ADA standards.

**Initial Recommendations**: To supplement the marked crosswalk along Webster Street, the LED flashing sign should be replaced by a pedestrian actuated RRFB system (W1-1/W16-7P assembly). New, updated advanced pedestrian crossing signage shall be installed as well. Crosswalk markings shall be refreshed.

**Further recommendations** may be suggested at this location as part of the Full Pedestrian Safety Audit, including geometric modifications to the high school exit to reduce the curb radii in the southwest corner of the intersection which currently may facilitate high speed turning movements. Curb extensions may also be explored to reduce the crossing distance along Webster Street and potentially slow down vehicle speeds. Existing street lighting may require modification to more efficiently light the crosswalk on the western side of Webster Street and additional street lighting may be warranted for the eastern ramp of the Webster Street crossing.





Central Avenue is an urban minor arterial in the Town of Needham. Central Avenue in the vicinity of the crosswalk, experiences heavy volumes of traffic due to proximity of Newman Elementary School.

#### **Vehicle Speeds**

Prior to the crosswalk, Central Avenue has a speed limit of 30 mph. The crosswalk, however, falls within a school zone, which has a speed limit of 20 mph at the time the school zone is active. Additional speed and volume data will be obtained as part of the comprehensive pedestrian safety audit.

#### **Pedestrian Related Collisions**

This crosswalk location falls within a mediumdensity pedestrian related crash cluster according to MassDOT Crash records available from 2012-2016. Additional local crash reports are to be obtained and analyzed as part of the comprehensive pedestrian safety audit.

### Proximity to Schools, Transit, Parks, Religious Centers, Civic Destinations

This crosswalk is located within a quarter of a mile of Newman Elementary School, a religious center, a community theater, and a recreational park.

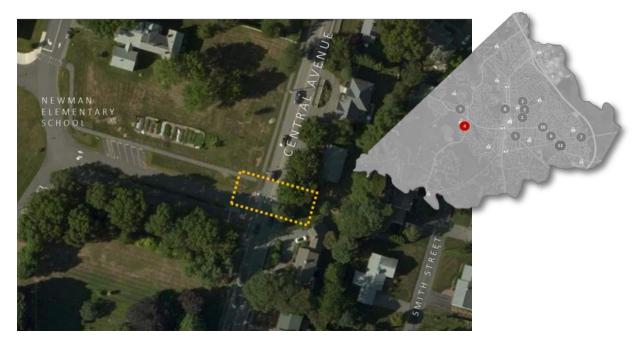
#### **Existing Street Lighting**

This crosswalk location falls within an area with potentially inadequate street lighting. Existing lighting shall be further investigated as part of the comprehensive study and shall be compared to FHWA Standards to accurately recommend appropriate measures.

#### **Community Input**

This crosswalk location was a heavily referenced safety concern within the community input documentation.

### CENTRAL AVENUE AT NEWMAN ELEMENTARY SCHOOL



Existing Conditions: The existing marked hatch (zebra) style crosswalk along Central Avenue is uncontrolled. There is existing pedestrian crossing signage at the crosswalk (S1-1/W16-7P assembly) for both approach lanes. Advanced warning school crossing signs (S1-1/W16-9P assembly) are present for both approaches on Central Avenue. 'SCHOOL' pavement marking stencils and school flashing beacon signs are available in advance of the crosswalk per Massachusetts School Zone requirements. An in-road pedestrian crossing sign (R1-6) is located within the crosswalk across Central Avenue. Street lighting is present on the west side of Webster Street approximately 35 feet north of the crosswalk and 85 feet south of the crosswalk which may not be adequate to efficiently light the crossing. The eastern ramp on Central Avenue is lacking a detectable warning panel and accessibility should be examined for conformance to current ADA standards.

**Initial Recommendations**: To supplement the marked crosswalk along Central Avenue, a pedestrian actuated RRFB system (S1-1/W16-7P assembly) shall be installed as well as new advanced pedestrian crossing signage and updated school zone flashing beacons. Crosswalk markings and 'SCHOOL' stencils should be refreshed.

**Further recommendations** may be suggested as part of the Full Pedestrian Safety Audit, such as curb extensions along Central Avenue or possible tightening curb radii for the school entrance location. Additional lighting may be required along the eastern side of Central Avenue to efficiently light the crosswalk.



CENTRAL AVENUE AT NEWMAN **ELEMENTARY SCHOOL** Refresh crosswalk pavement markings with thermoplastic markings. SCHOOL MA-S4-5bP (per Massachusetts ZONE Amendment to the AHEAD MUCTD) RRFB (S1-1/W16-7P Assembly) System School Zone NEWMAN Flashing Beacon (S4-3P/R2-1/S4-4P ELEMENTARY Refresh 'SCHOOL' pavement Assembly) SCHOOL markings with thermoplastic markings. Refresh 'SCHOOL' pavement markings with thermoplastic markings. School Zone Flashing Beacon (S4-3P/R2-1/S4-4P Assembly) RRFB (S1-1/W16-7P Assembly) System S1-1 SCHOOL MA-S4-5bP (per Massachusetts ZONE Amendment to the



MUCTD)

AHEAD

Great Plain Avenue is an urban minor arterial within the vicinity of the crosswalk.

### **Vehicle Speeds**

Great Plain Avenue has a prima facie speed limit of 30 MPH near the crosswalk. Additional speed and volume data will be obtained as part of the comprehensive pedestrian safety audit.

#### **Pedestrian Related Collisions**

This crosswalk location falls within a mediumdensity pedestrian related crash cluster according to MassDOT Crash records available from 2012-2016. Additional local crash reports are to be obtained and analyzed as part of the comprehensive pedestrian safety audit.

### Proximity to Schools, Transit, Parks, Religious Centers, Civic Destinations

This crosswalk is located within a half mile of Pollard Middle School and within a quarter of a mile to the Hersey MBTA commuter rail stop.

### **Existing Street Lighting**

This crosswalk location falls within an area with potentially adequate street lighting. Existing lighting shall be further investigated as part of the comprehensive study and shall be compared to FHWA Standards to accurately recommend appropriate measures.

### **Community Input**

This crosswalk location was a heavily refenced safety concern within the community input documentation as it is often used by students to access Pollard Middle School as well as commuters utilizing the Hersey commuter rail stop.

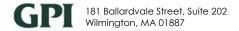
### GREAT PLAIN AVENUE AT HILLCREST ROAD

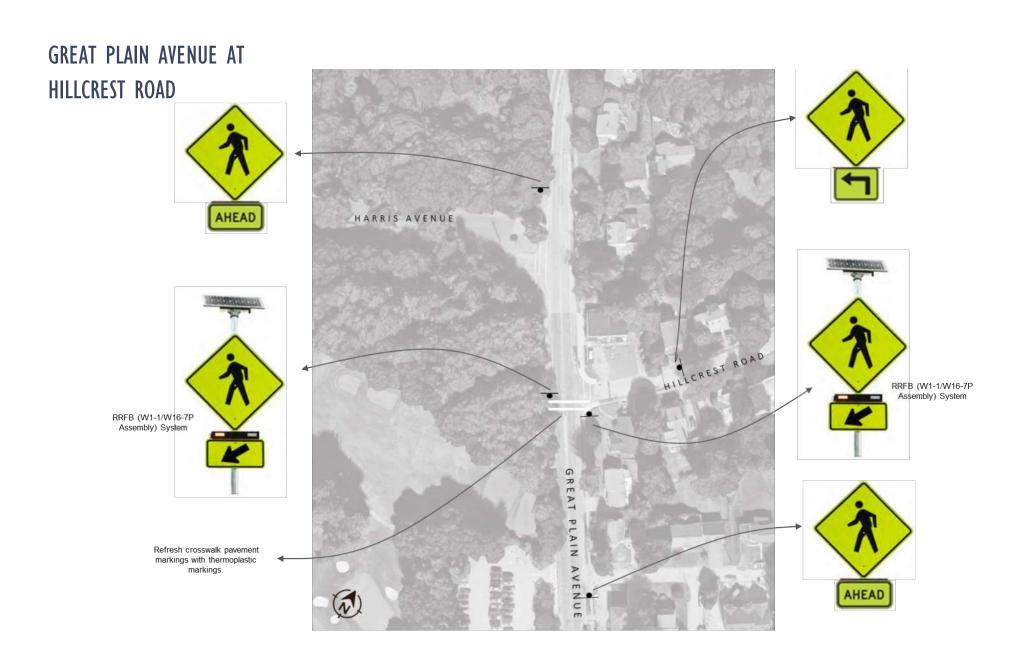


**Existing Conditions**: The existing standard style crosswalk along Great Plain Avenue is uncontrolled. There is existing pedestrian crossing signage at the crosswalk (S1-1/W16-7P assembly) for both approach lanes. Advanced warning pedestrian crossing signs are not present for either approach. An in-road pedestrian crossing sign (R1-6) is located within the crosswalk across Great Plain Avenue. Street lighting is present on the east side of Great Plain Avenue approximately 55 feet north of the crosswalk and 85 feet south of the crosswalk which may not be adequate to efficiently light the crossing. No street lighting is present on the western side of Great Plain Avenue. Ramps are lacking detectable warning panels and accessibility should be examined for conformance to current ADA standards.

**Initial Recommendations**: To supplement the marked crosswalk along Great Plain Avenue, a pedestrian actuated RRFB system (W1-1/W16-7P assembly) shall be installed as well as advanced pedestrian crossing signage. Crosswalk markings shall be refreshed with high visibility paint.

**Further recommendations** may be suggested at this location as part of the Full Pedestrian Safety Audit, including curb extensions to reduce the crossing distance along Great Plain Avenue and potentially slow down vehicle speeds. Existing street lighting may require modification to more efficiently light the crosswalk.







Great Plain Avenue is an urban principal arterial within the vicinity of the crosswalk.

### **Vehicle Speeds**

The regulated speed limit is 30 mph on Great Plain Avenue at this crosswalk location. Additional speed and volume data will be obtained as part of the comprehensive pedestrian safety audit.

#### **Pedestrian Related Collisions**

This crosswalk location falls within a low-density pedestrian related crash cluster according to MassDOT Crash records available from 2012-2016. Additional local crash reports are to be obtained and analyzed as part of the comprehensive pedestrian safety audit.

### Proximity to Schools, Transit, Parks, Religious Centers, Civic Destinations

This crosswalk is located within a quarter of a mile of Newman Elementary School.

#### **Existing Street Lighting**

This crosswalk location falls within an area with potentially inadequate street lighting. Existing lighting shall be further investigated as part of the comprehensive study and shall be compared to FHWA Standards to accurately recommend appropriate measures.

#### **Community Input**

This crosswalk location was a heavily refenced safety concern within the community input documentation due to the existing curve along Great Plain Avenue which may alter sight distance.

### GREAT PLAIN AVENUE AT NORTH HILL AVENUE

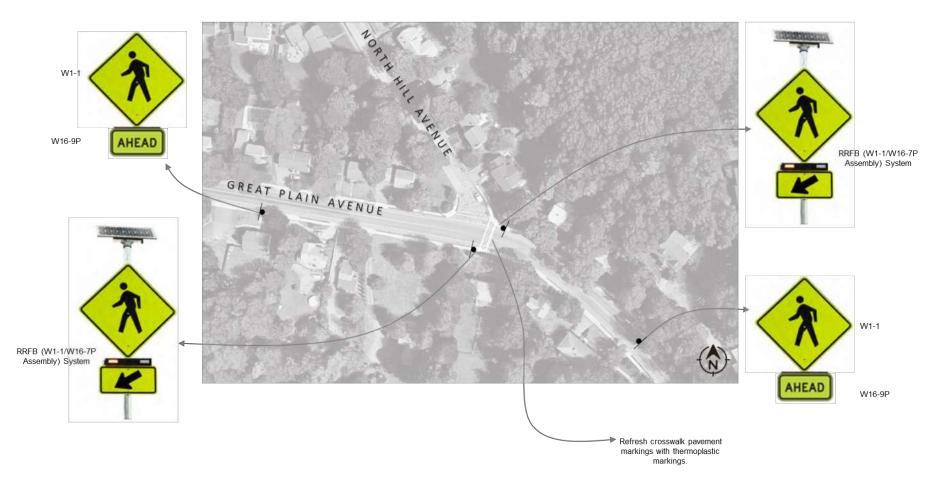


**Existing Conditions**: The existing marked hatch (zebra) style crosswalk along Great Plain Avenue is uncontrolled. There is existing pedestrian crossing signage at the crosswalk (W1-1/W16-7P/R1-6 assembly) for both approaches, however, signage is placed after the crosswalk rather leading before and adjacent. Advanced warning school crossing signs (W1-1/W16-9P assembly) are present for both approaches on Great Plain Avenue. Street lighting is present on the northern side of Great Plain Avenue only, approximately 75 feet east and west of the crosswalk. Despite the curvature in the roadway, sight lines do not appear to be problematic.

Initial Recommendations: To supplement the marked crosswalk along Great Plain Avenue, a pedestrian actuated RRFB system (S1-1/W16-7P assembly) shall be installed as well as new advanced pedestrian crossing signage. Crosswalk markings should be refreshed.

**Further recommendations** as part of the Full Pedestrian Safety Audit may include accessible ramps with detectable warning panels. Street lighting may require modification to efficiently service the crosswalk. Curb extensions may also be explored to reduce pedestrian crossing distance and potentially slow down vehicle speeds.

# GREAT PLAIN AVENUE AT NORTH HILL AVENUE



Great Plain Avenue is an urban minor arterial in the vicinity of the crosswalk.

### **Vehicle Speeds**

Great Plain Avenue has a prima facie speed limit of 30 MPH near the crosswalk. Additional speed and volume data will be obtained as part of the comprehensive pedestrian safety audit.

#### **Pedestrian Related Collisions**

This crosswalk location falls within a low-density pedestrian related crash cluster according to MassDOT Crash records available from 2012-2016. Additional local crash reports are to be obtained and analyzed as part of the comprehensive pedestrian safety audit.

### Proximity to Schools, Transit, Parks, Religious Centers, Civic Destinations

This crosswalk is located within a half of a mile of Pollard Middle School.

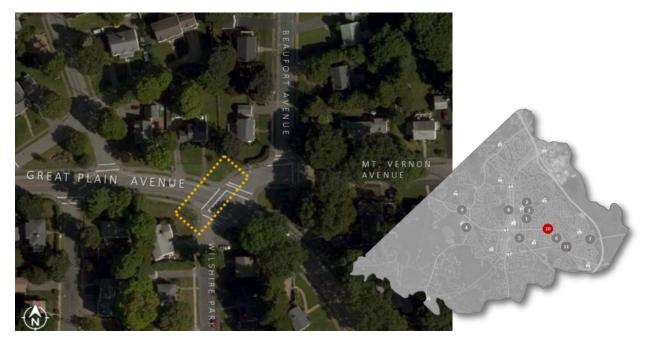
#### **Existing Street Lighting**

This crosswalk location falls within an area with potentially inadequate street lighting. Existing lighting shall be further investigated as part of the comprehensive study and shall be compared to FHWA Standards to accurately recommend appropriate measures.

#### **Community Input**

This crosswalk location was a heavily refenced safety concern within the community input documentation due to the existing curve along Great Plain Avenue which may alter sight distance.

### GREAT PLAIN AVENUE AT WILSHIRE PARK / BEAUFORT AVENUE

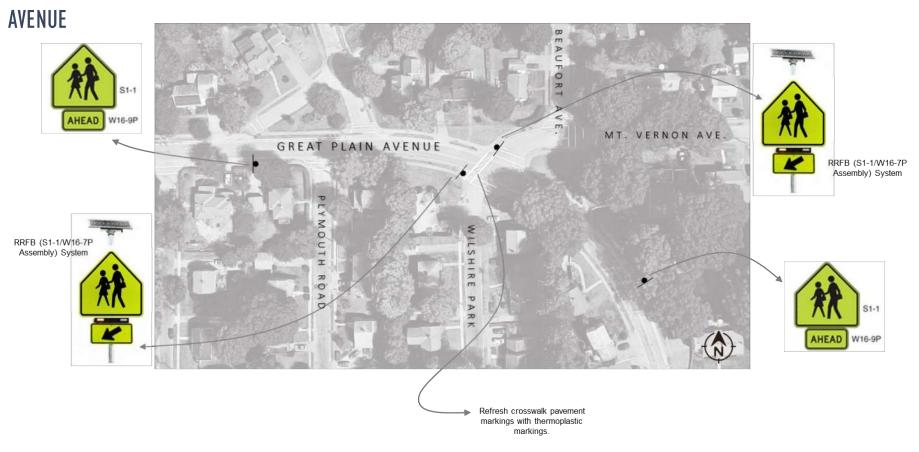


Existing Conditions: The existing standard crosswalk along Great Plain Avenue is uncontrolled. There is existing pedestrian crossing signage at the crosswalk (W1-1/W16-7P/R1-6 assembly) for both approaches, however, signage is placed after the crosswalk rather than before and adjacent along the northwest approach. Advanced warning school crossing signs (S1-1 assembly) are present for both approaches on Great Plain Avenue. There is no street lighting on Great Plain Avenue in the vicinity of the crosswalk. The curvature in the he roadway creates sight line issues specifically for vehicles traveling northwest on Great Plain Avenue. Ramps are lacking detectable warning panels and accessibility should be examined for conformance to current ADA standards.

Initial Recommendations: To supplement the marked crosswalk along Great Plain Avenue, a pedestrian actuated RRFB system (S1-1/W16-7P assembly) shall be installed as well as new advanced pedestrian crossing signage. Crosswalk markings should be refreshed.

**Further recommendations** may be suggested at this location as part of the Full Pedestrian Safety Audit to address sight line concerns and may require relocation of the crosswalk to the west near the intersection of Great Plain Avenue at Plymouth Road. Street lighting may require modification to efficiently service the crosswalk. Ramp accessibility shall be examined and addressed.

# GREAT PLAIN AVENUE AT WILSHIRE PARK / BEAUFORT



Great Plain Avenue is an urban minor arterial within the vicinity of the crosswalk.

### **Vehicle Speeds**

Great Plain Avenue has a prima facie speed limit of 30 MPH near the crosswalk. Additional speed and volume data will be obtained as part of the comprehensive pedestrian safety audit.

#### **Pedestrian Related Collisions**

This crosswalk location falls within a mediumdensity pedestrian related crash cluster according to MassDOT Crash records available from 2012-2016. Additional local crash reports are to be obtained and analyzed as part of the comprehensive pedestrian safety audit.

### Proximity to Schools, Transit, Parks, Religious Centers, Civic Destinations

This crosswalk is located within a half mile of Pollard Middle School and within a quarter of a mile to the Hersey MBTA commuter rail stop.

### **Existing Street Lighting**

This crosswalk location falls within an area with potentially adequate street lighting. Existing lighting shall be further investigated as part of the comprehensive study and shall be compared to FHWA Standards to accurately recommend appropriate measures.

### **Community Input**

This crosswalk location was a heavily refenced safety concern within the community input documentation as it is often used by students to access Pollard Middle School as well as commuters utilizing the Hersey commuter rail stop.

### GREAT PLAIN AVENUE AT BROAD MEADOW ROAD



**Existing Conditions**: The existing standard style crosswalk along Great Plain Avenue is uncontrolled. There is existing pedestrian crossing signage at the crosswalk (S1-1/W16-7P assembly) for both approach lanes. Advanced warning pedestrian crossing signs are present for both approaches. An in-road pedestrian crossing sign (R1-6) is located within the crosswalk across Great Plain Avenue. Street lighting is present on the east side of Great Plain Avenue approximately 55 feet north of the crosswalk and 85 feet south of the crosswalk which may not be adequate to efficiently light the crossing. No street lighting is present on the western side of Great Plain Avenue. Ramps are lacking detectable warning panels and accessibility should be examined for conformance to current ADA standards.

**Initial Recommendations**: To supplement the marked crosswalk along Great Plain Avenue, a pedestrian actuated RRFB system (W1-1/W16-7P assembly) shall be installed as well as advanced pedestrian crossing signage. Crosswalk markings shall be refreshed with high visibility paint.

**Further recommendations** may be suggested at this location as part of the Full Pedestrian Safety Audit, including curb extensions to reduce the crossing distance along Great Plain Avenue and potentially slow down vehicle speeds. Existing street lighting may require modification to more efficiently light the crosswalk.

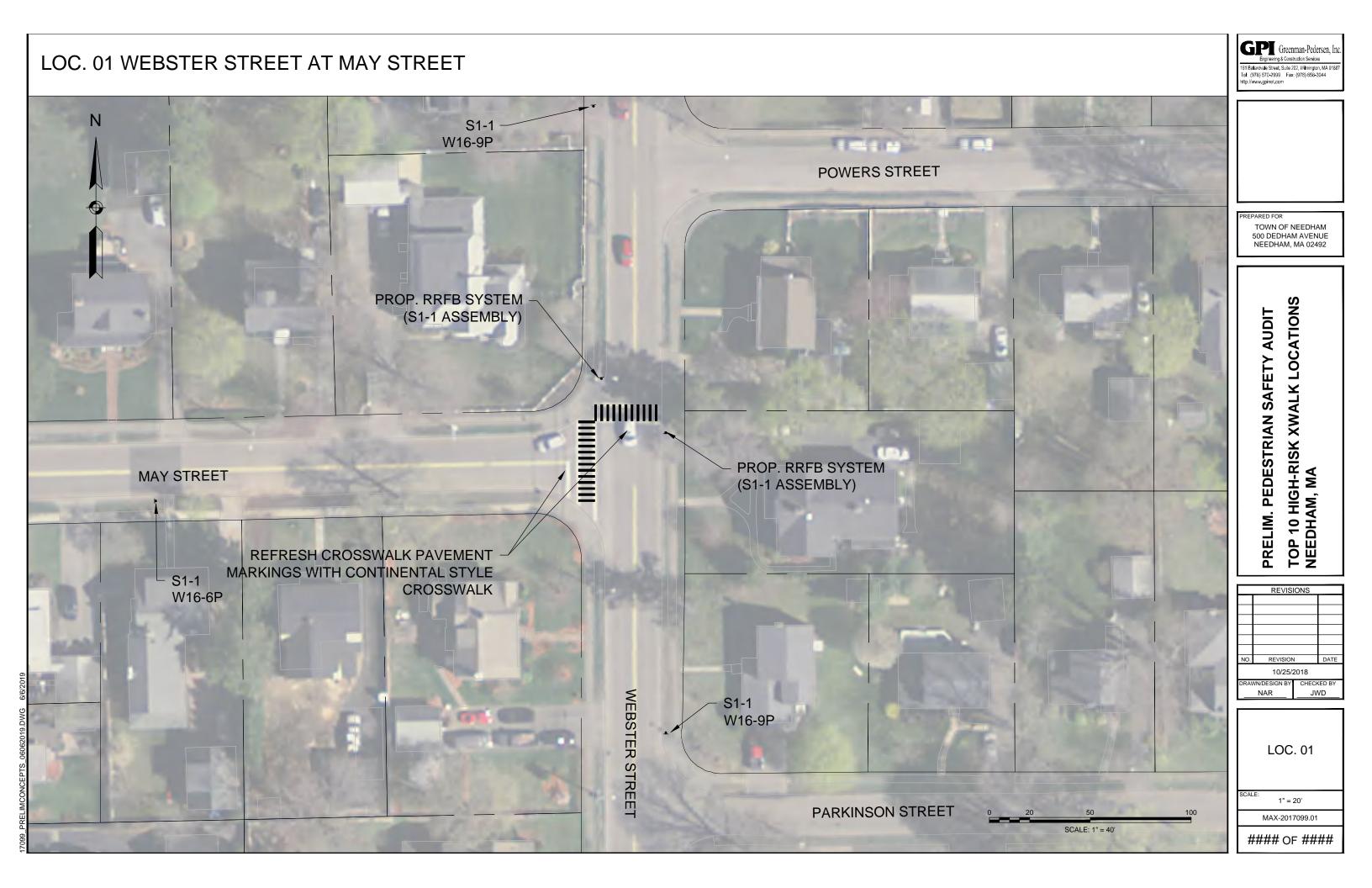


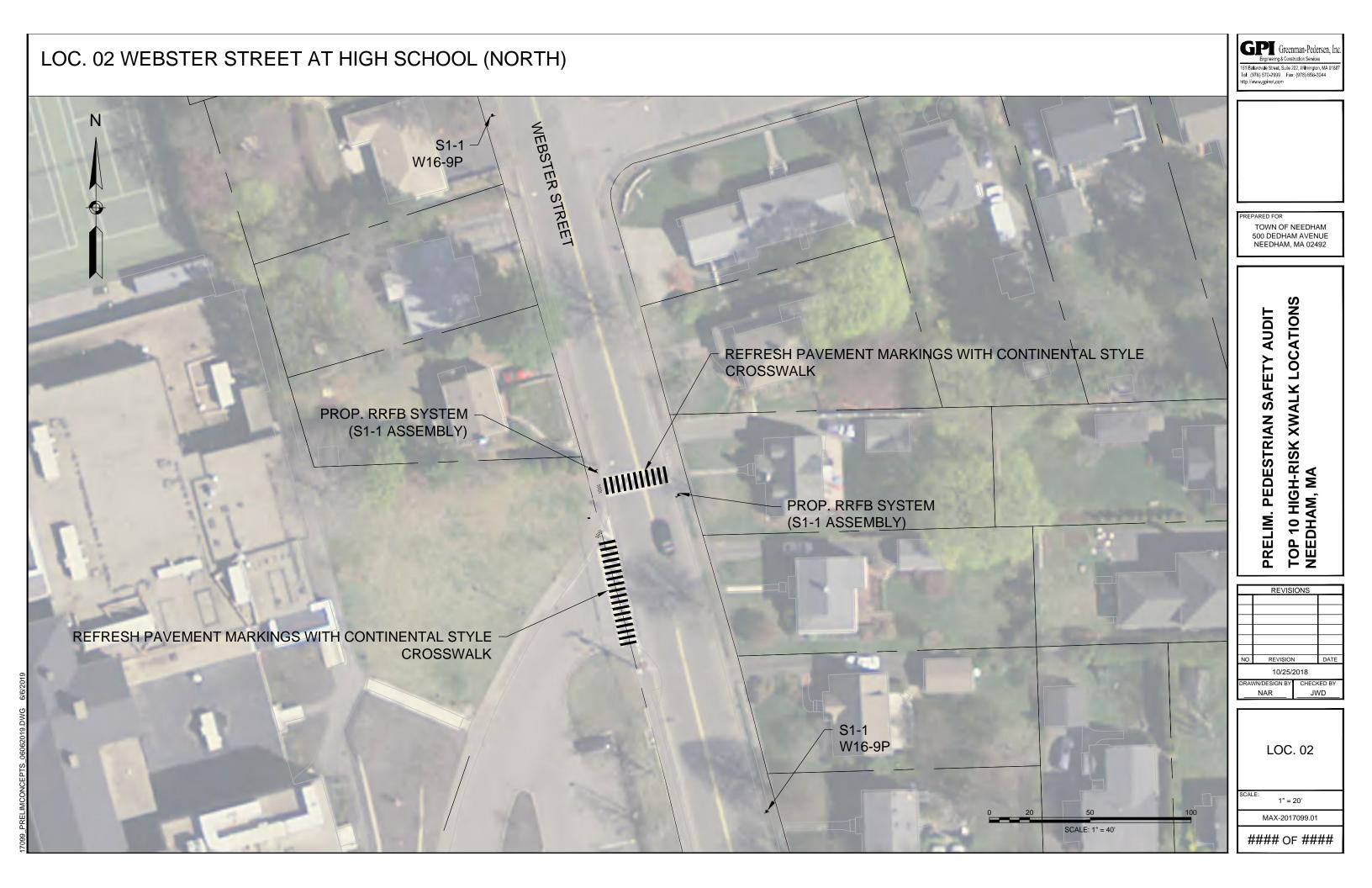
#### GREAT PLAIN AVENUE AT BROAD











# LOC. 03 WEBSTER STREET AT HIGH SCHOOL (SOUTH) S1-1 W16-9P REFRESH PAVEMENT MARKINGS WITH CONTINENTAL TYPE CROSSWALK PROP. RRFB SYSTEM PROP. RRFB SYSTEM (S1-1 ASSEMBLY) (S1-1 ASSEMBLY) HHIHHHH HOLLAND STREET WEBSTER STREET S1-1 W16-9P SCALE: 1" = 40'

GPE Greenman-Pedersen, In 181 Ballardvale Street, Suite 202, Wilmington, MA 0188 Tel: (978) 570-2999 Fax: (978) 658-3044 http://www.gpinet.com

TOWN OF NEEDHAM 500 DEDHAM AVENUE NEEDHAM, MA 02492

PRELIM. PEDESTRIAN SAFETY AUDIT TOP 10 HIGH-RISK XWALK LOCATIONS NEEDHAM, MA

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LOC. 03

1" = 20'

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### LOC. 04 CENTRAL AVENUE AT NEWMAN ELEMENTARY SCHOOL N SCHOOL ZONE **FLASHING BEACON** (S4-3P/R2-1/S4-4P ASSEMBLY) REFRESH PAVEMENT MARKINGS TO CONTINENTAL STYLE PROP. RRFB SYSTEM CROSSWALK (S1-1 ASSEMBLY) INSTALL ADA COMPLIANT RAMP WITH DETECTABLE WARNING PANEL. MEET EXISTING/SIDEWALK PROP. RRFB SYSTEM (S1-1 ASSEMBLY) CENTRAL AVENUE SCHOOL ZONE/FLASHING BEACON (S4-3P/R2-1/S4-4P ASSEMBLY) SCALE: 1" = 40"

GPP Greenman-Pedersen, Inc.
Engineering & Construction Services

161 Balandvale Street, Suite 202, Willmington, MA 01867
Tet: (978) 570-2999 Fax: (978) 658-3044
http://www.gpinet.com

REPARED FOR

TOWN OF NEEDHAM 500 DEDHAM AVENUE NEEDHAM, MA 02492

PRELIM. PEDESTRIAN SAFETY AUDIT
TOP 10 HIGH-RISK XWALK LOCATIONS
NEEDHAM, MA

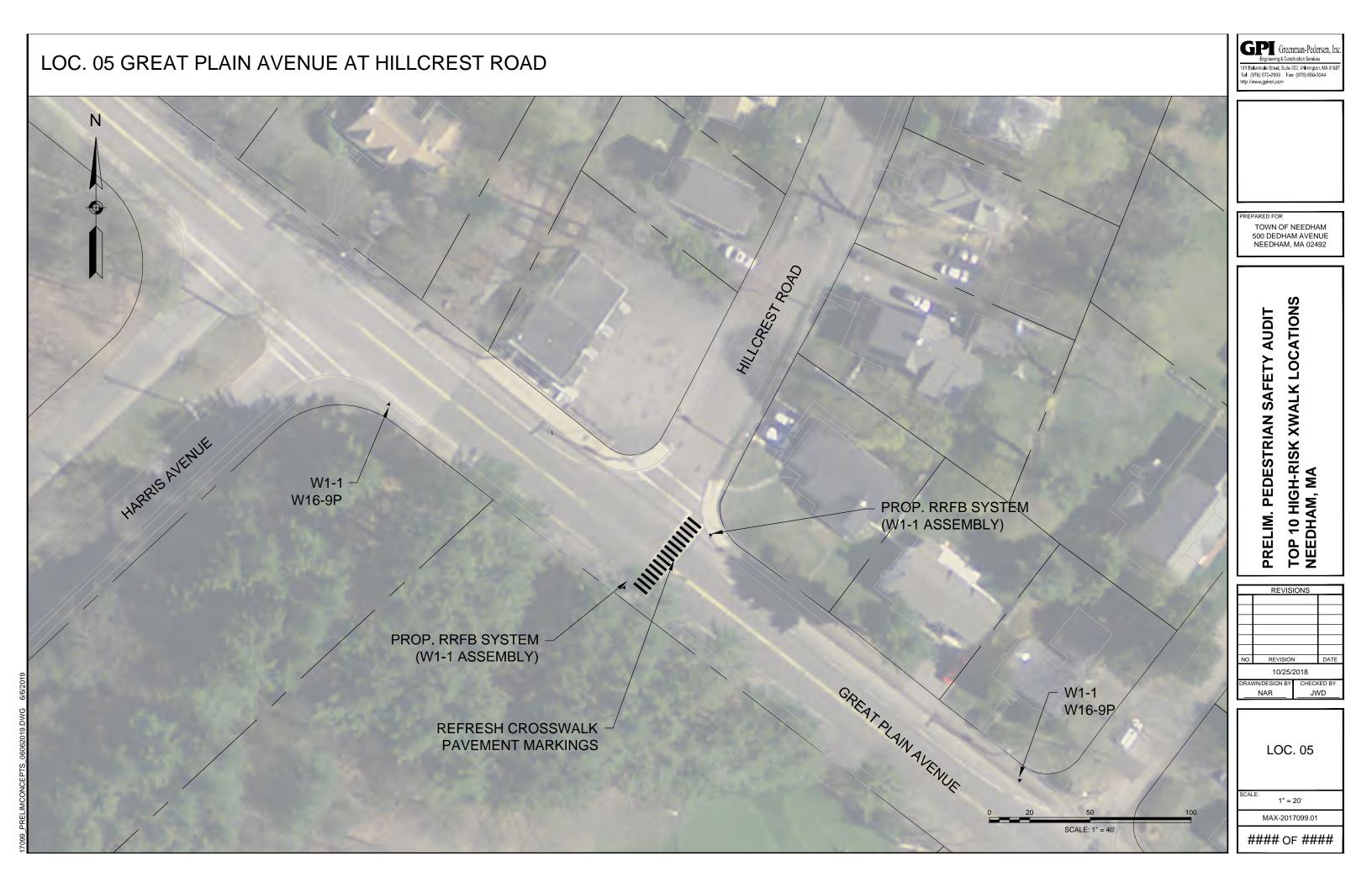
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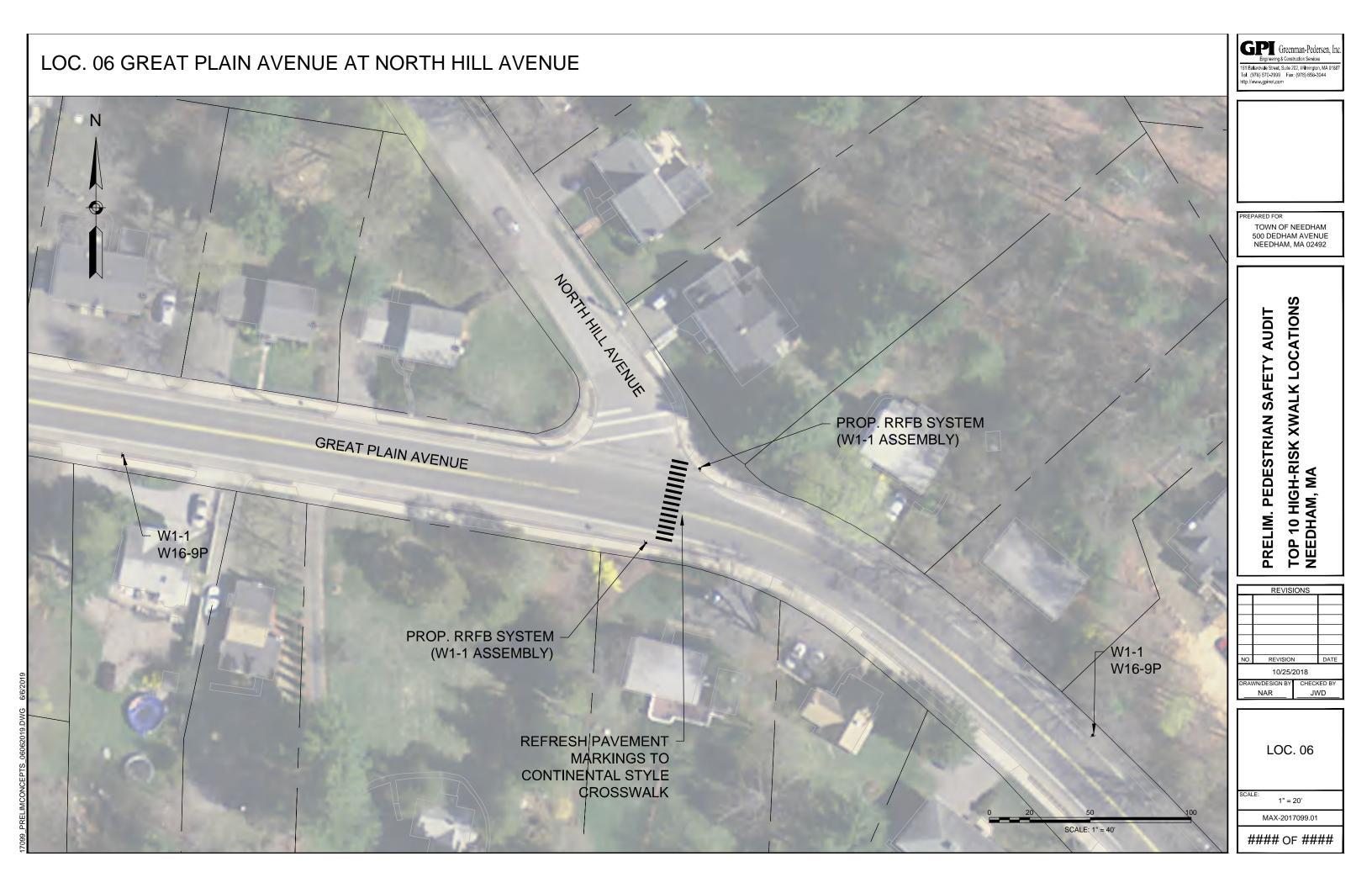
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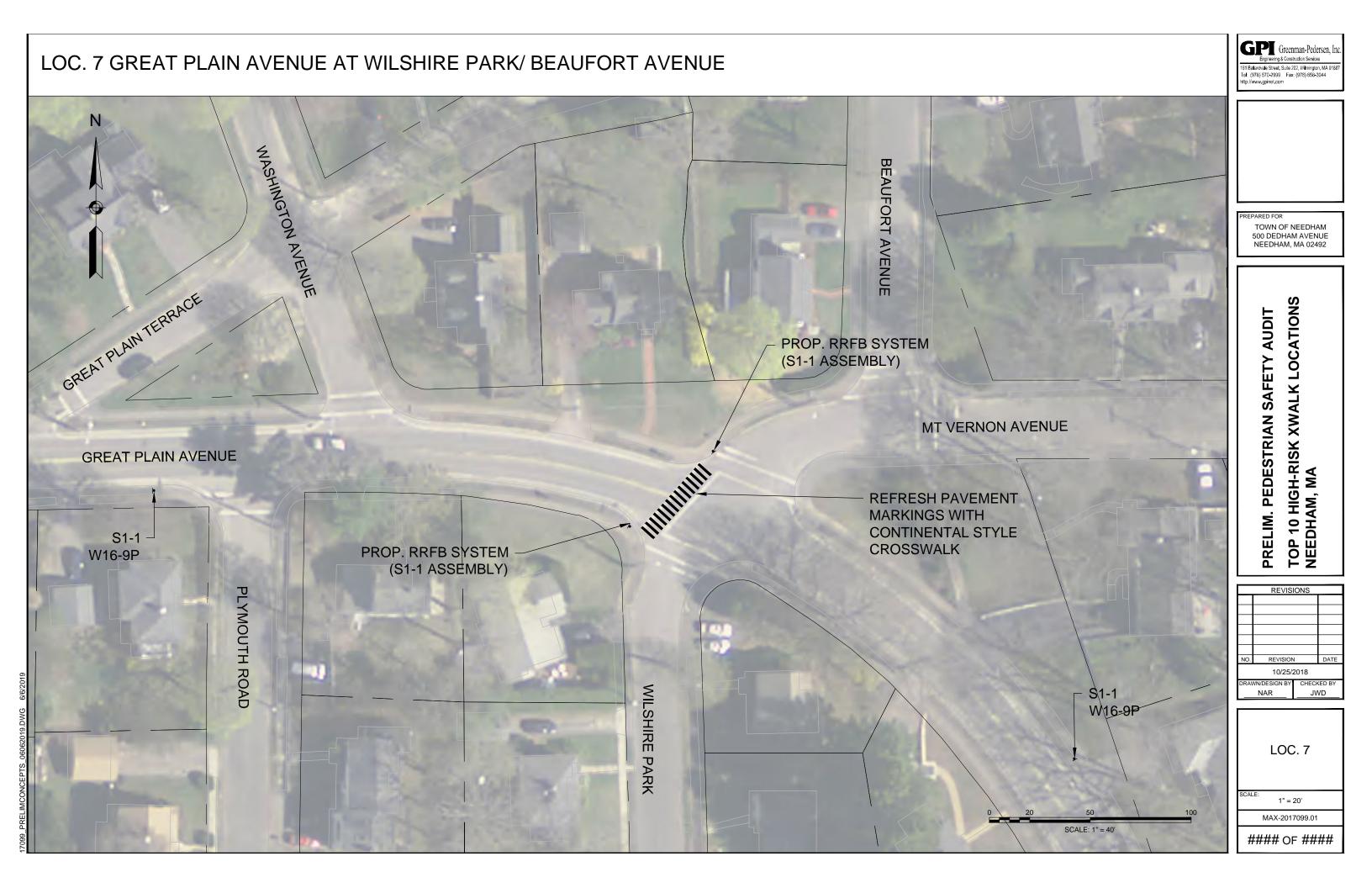
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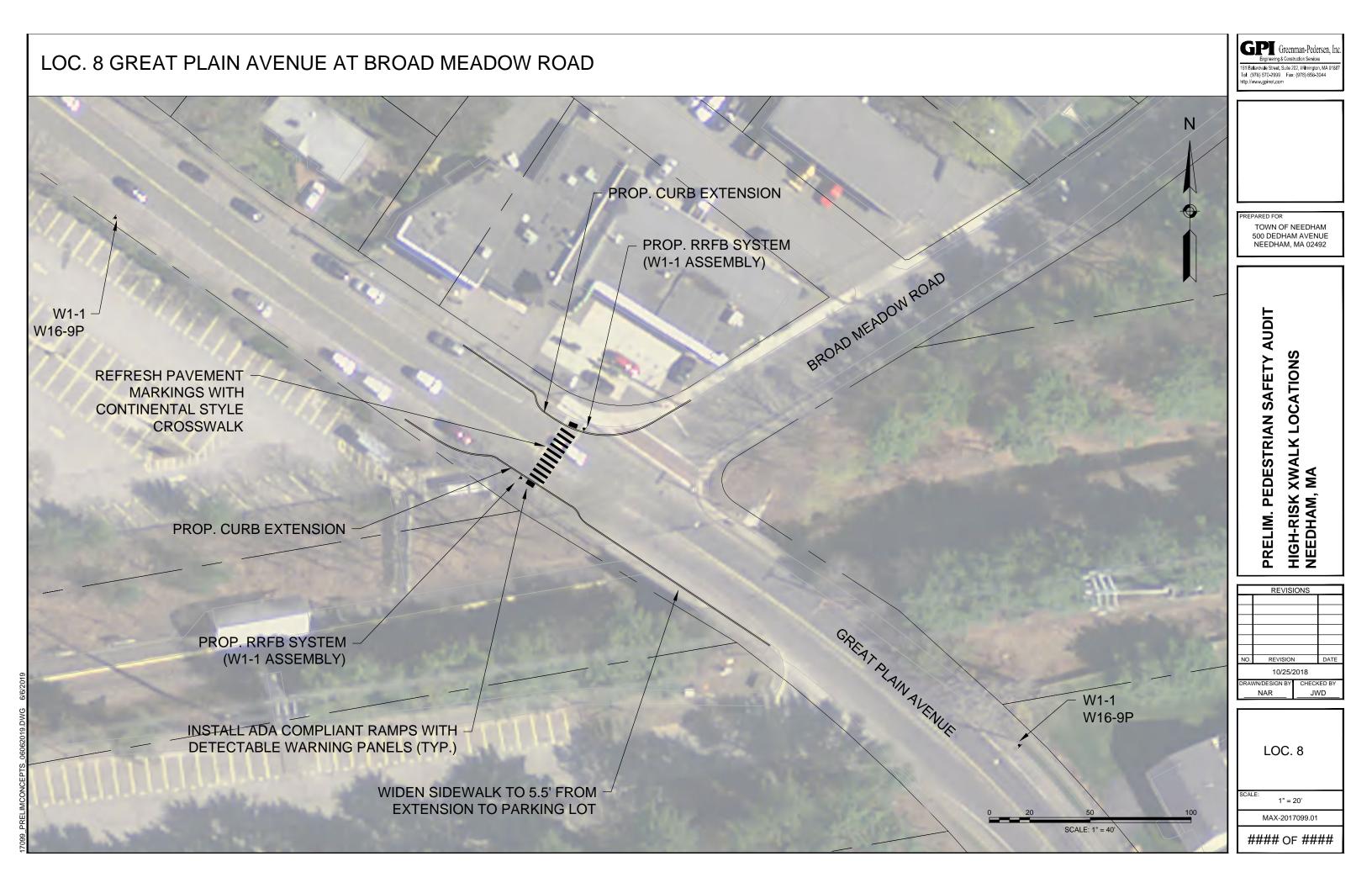
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#### **APPENDIX**

- A. Preliminary High-Risk Crosswalk Locations Report
- B. Crosswalk Inventory Attribute Lists & Maps
- C. Traffic Counts
- D. MassDOT Crash Data

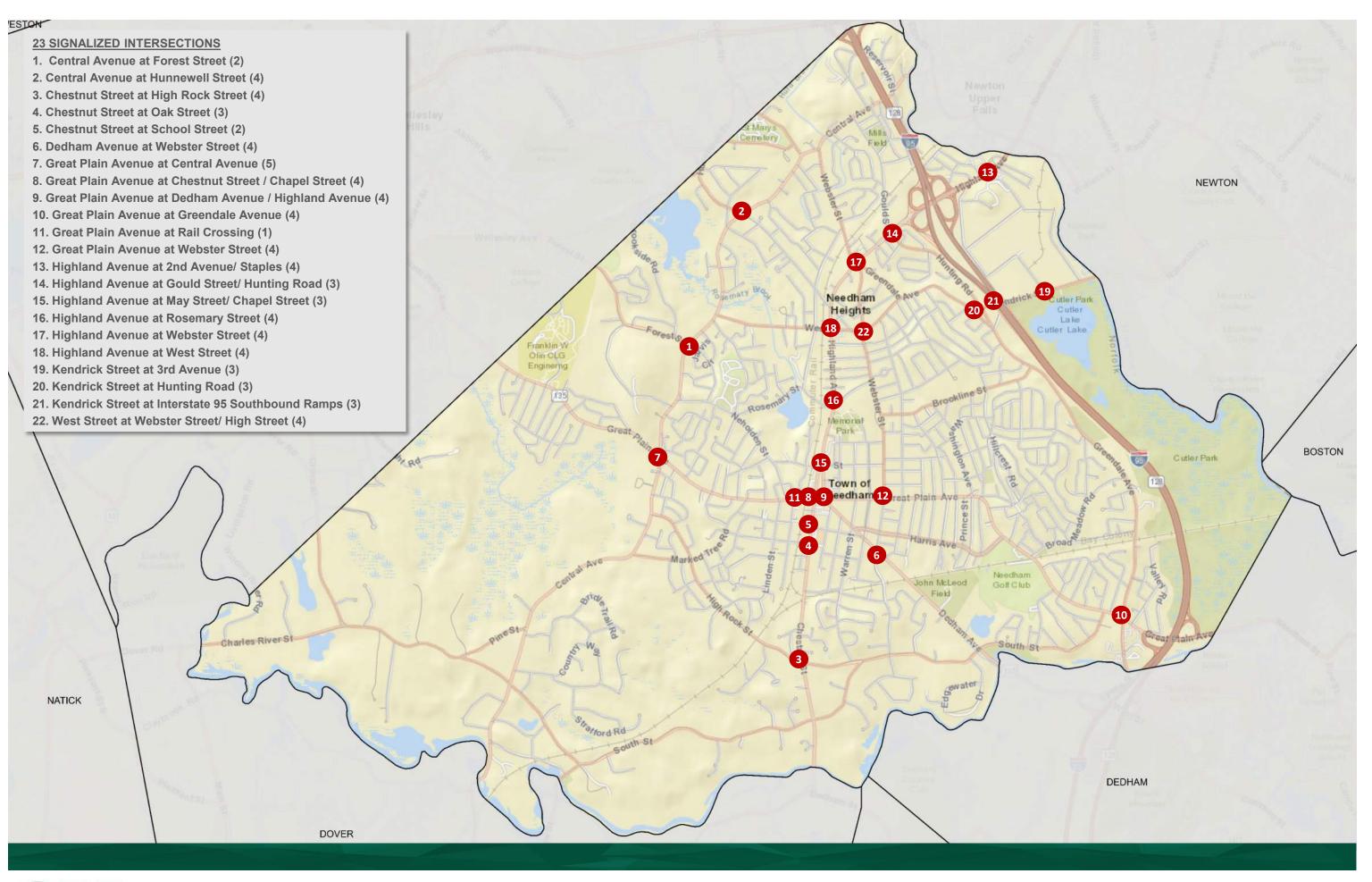




#### Greenman-Pedersen, Inc. | 181 Ballardvale Street, Suite 202, Wilmington, MA 01887 NEEDHAM SIGNALIZED CROSSWALKS- NEEDHAM, MA

Crosswalk ID	Street	Control	Nearest Landmark/ Intersection	Location Description	Direction
SIG-001	2nd Avenue	Signal	Highland Avenue at 2nd Avenue/ Staples	Just south of Highland Avenue	East-West
SIG-002	3rd Avenue	Signal	Kendrick Street at 3rd Avenue	Northwest of Kendirck Street	Northwest-Southeast
IG-003	3rd Avenue	Signal	Kendrick Street at 3rd Avenue	Northeast of Kendrick Street	East-West
SIG-004	Central Avenue	Signal	Great Plain Avenue at Central Avenue	South of Great Plain Avenue	East-West
SIG-005	Central Avenue	Signal	Great Plain Avenue at Central Avenue	North of Great Plain Avenue	East-West
SIG-006	Central Avenue	Signal	Great Plain Avenue at Central Avenue	Central Avenue southbound right turn lane to Great Plain Avenue	Northwest-Southeast
SIG-007	Central Avenue	Signal	Central Avenue at Forest Street	Northeast of Forest Street	Northwest-Southeast
SIG-008	Central Avenue	Signal	Central Avenue at Hunnewell Street	Southwest of Hunnewell Street	East-West
SIG-009	Central Avenue	Signal	Central Avenue at Hunnewell Street	Northeast of Hunnewell Street	Northwest-Southeast
SIG-010	Chapel Street	Signal	Great Plain Avenue at Chestnut Street/Chapel Street	North of Great Plain Avenue	East-West
SIG-011	Chestnut Street	Signal	Great Plain Avenue at Chestnut Street/Chapel Street	South of Great Plain Avenue	East-West
SIG-012	Chestnut Street	Signal	Chestnut Street at School Street	North of School Street	East-West
IG-013	Chestnut Street	Signal	Chestnut Street at Oak Street/Beth Israel Deaconess Hospital	North of Oak Street	East-West
SIG-014	Chestnut Street	Signal	Chestnut Street at Oak Street/Beth Israel Deaconess Hospital	South of Oak Street	East-West
SIG-015	Chestnut Street	Signal	Chestnut Street at High Rock Street	North of High Rock Street	East-West
IG-016	Chestnut Street	Signal	Chestnut Street at High Rock Street	South of High Rock Street	East-West
SIG-017	Dedham Avenue	Signal	Great Plain Avenue at Dedham Avenue/ Highland Avenue	South of Great Plain Avenue	East-West
IG-018	Dedham Avenue	Signal	Dedham Avenue at Webster Street	West of Webster Street	North-South
SIG-019	Dedham Avenue	Signal	Dedham Avenue at Webster Street	East of Webster Street	North-South
IG-020	Kendrick Street	Signal	Kendrick Street at Interstate 95 Southbound Ramps Exit 19A	North of Dedham Avenue	East-West
IG-021	Forest Street	Signal	Central Avenue at Forest Street	West of Central Avenue	North-South
IG-022	Gould Street	Signal	Highland Avenue at Gould Street/ Hunting Road	Northwest of Highland Avenue	Southwest-Northeast
IG-023	Great Plain Avenue	Signal	Great Plain Avenue at Central Avenue	East of Central Avenue	North-South
IG-024	Great Plain Avenue	Signal	Great Plain Avenue at Central Avenue	West of Central Avenue	North-South
IG-025	Great Plain Avenue	Signal	Great Plain Avenue at Rail Crossing	West of Rail Crossing	North-South
IG-026	Great Plain Avenue	Signal	Great Plain Avenue at Chestnut Street/ Chapel Street	West of Chestnut Street	North-South
IG-027	Great Plain Avenue	Signal	Great Plain Avenue at Chestnut Street/ Chapel Street	East of Chestnut Street	North-South
IG-028	Great Plain Avenue	Signal	Great Plain Avenue at Dedham Avenue/ Highland Avenue	West of Highland Avenue	Northwest-Southeast
IIG-029	Great Plain Avenue	Signal	Great Plain Avenue at Dedham Avenue/ Highland Avenue	East of Highland Avenue	Southwest-Northeast
SIG-030	Great Plain Avenue	Signal	Great Plain Avenue at Greendale Avenue	East of Greendale Avenue	North-South
SIG-031	Great Plain Avenue	Signal	Great Plain Avenue at Greendale Avenue	West of Greendale Avenue	North-South
SIG-032	Great Plain Avenue	Signal	Great Plain Avenue at Webster Street	East of Webster Street	North-South
IG-033	Great Plain Avenue	Signal	Great Plain Avenue at Webster Street	West of Webster Street	North-South
IG-034	Greendale Avenue	Signal	Great Plain Avenue at Greendale Avenue	South of Great Plain Avenue	East-West
IG-035	Greendale Avenue	Signal	Great Plain Avenue at Greendale Avenue	North of Great Plain Avenue	East-West
IG-036	High Rock Street	Signal	Chestnut Street at High Rock Street	West of Chestnut Street	North-South
IG-037	High Rock Street	Signal	Chestnut Street at High Rock Street	East of Chestnut Street	North-South
IG-038	High Street	Signal	West Street at Webster Street/ High Street	East of Webster Street	North-South
IG-039	Highland Avenue	Signal	Great Plain Avenue at Dedham Avenue/ Highland Avenue	North of Great Plain Avenue	East-West
IG-040	Highland Avenue	Signal	Highland Avenue at May Street/ Chapel Street	North of May Street	East-West
IG-041	Highland Avenue	Signal	Highland Avenue at Rosemary Street	North of Rosemary Street	East-West
IG-042	Highland Avenue	Signal	Highland Avenue at Rosemary Street	South of Rosemary Street	Southwest-Northeast
IG-043	Highland Avenue	Signal	Highland Avenue at 2nd Avenue/ Staples	Northeast of 2nd Avenue	Northwest-Southeast
IG-044	Highland Avenue	Signal	Highland Avenue at Gould Street/ Hunting Road	Southwest of Hunting Road	Northwest-Southeast
IG-045	Highland Avenue	Signal	Highland Avenue at Webster Street	Northeast of Webster Street	Northwest-Southeast
IG-046	Highland Avenue	Signal	Highland Avenue at Webster Street	Southwest of Webster Street	Northwest-Southeast
IG-047	Highland Avenue	Signal	Highland Avenue at West Street	North of West Street	East-West
IG-048	Highland Avenue	Signal	Highland Avenue at West Street	South of West Street	East-West
IG-049	Highland Avenue	Signal	Highland Avenue at 2nd Avenue/ Staples	Southwest of 2nd Avenue	Northwest-Southeast

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SIG-050	Hunnewell Street	Signal	Central Avenue at Hunnewell Street	Northwest of Central Avenue	Southwest-Northeast
SIG-051	Hunnewell Street	Signal	Central Avenue at Hunnewell Street	Southest of Central Avenue	Southwest-Northeast
SIG-052	Hunting Road	Signal	Kendrick Street at Hunting Road	North of Kendrick Street	East-West
SIG-053	Hunting Road	Signal	Kendrick Street at Hunting Road	South of Kendrick Street	East-West
SIG-054	Hunting Road	Signal	Highland Avenue at Gould Street/ Hunting Road	Southeast of Highland Avenue	Southwest-Northeast
SIG-055	Kendrick Street	Signal	Kendrick Street at Hunting Road	West of Hunting Road	North-South
SIG-056	Kendrick Street	Signal	Kendrick Street at Interstate 95 Southbound Ramps Exit 19A	West of I-95 SB Off Ramp Exit 19A	North-South
SIG-057	Kendrick Street	Signal	Kendrick Street at Interstate 95 Southbound Ramps Exit 19A	West of I-95 SB On Ramp Exit 19A	North-South
SIG-058	Kendrick Street	Signal	Kendrick Street at 3rd Avenue	East of 3rd Avenue	North-South
SIG-059	May Street	Signal	Highland Avenue at May Street/ Chapel Street	West of Highland Avenue	Southwest-Northeast
SIG-060	May Street	Signal	Highland Avenue at May Street/ Chapel Street	East of Highland Avenue	North-South
SIG-061	Oak Street	Signal	Chestnut Street at Oak Street/ Beth Israel Deaconess Hospital	West of Chestnut Street	North-South
SIG-062	Rosemary Street	Signal	Highland Avenue at Rosemary Street	East of Highland Avenue	North-South
SIG-063	Rosemary Street	Signal	Highland Avenue at Rosemary Street	West of Highland Avenue	North-South
SIG-064	School Street	Signal	Chestnut Street at School Street	East of Chestnut Street	North-South
SIG-065	Staples/Petco Driveway	Signal	Highland Avenue at 2nd Avenue/ Staples	Northwest of Highland Avenue	Southwest-Northeast
SIG-066	Webster Street	Signal	Dedham Avenue at Webster Street	North of Dedham Street	Northwest-Southeast
SIG-067	Webster Street	Signal	Dedham Avenue at Webster Street	South of Dedham Street	Northwest-Southeast
SIG-068	Webster Street	Signal	Great Plain Avenue at Webster Street	North of Great Plain Avenue	East-West
SIG-069	Webster Street	Signal	Great Plain Avenue at Webster Street	South of Great Plain Avenue	East-West
SIG-070	Webster Street	Signal	Highland Avenue at Webster Street	Northwest of Highland Avenue	Southwest-Northeast
SIG-071	Webster Street	Signal	Highland Avenue at Webster Street	Southeast of Highland Avenue	Southwest-Northeast
SIG-072	Webster Street	Signal	West Street at Webster Street/ High Street	North of West Street	East-West
SIG-073	Webster Street	Signal	West Street at Webster Street/ High Street	South of West Street	East-West
SIG-074	West Street	Signal	West Street at Webster Street/ High Street	West of Webster Street	North-South
SIG-075	West Street	Signal	Highland Avenue at West Street	East of Highland Avenue	North-South
SIG-076	West Street	Signal	Highland Avenue at West Street	West of Highland Avenue	North-South







## Greenman-Pedersen, Inc. | 181 Ballardvale Street, Suite 202, Wilmington, MA 01887 NEEDHAM STOP CONTROLLED CROSSWALKS- NEEDHAM, MA

Crosswalk ID	Street	Control	Nearest Landmark	Location Description	Direction
P-001	4th Avenue	Stop	4th Avenue at Kendrick Street	Just North of Kendrick Street	East-West
P-002	A Street	Stop	A Street at 1st Avenue	Just east of 1st Avenue	North-South
P-003	A Street	Stop	A Street at 2nd Avenue	Just west of 2nd Avenue	North-South
P-004	Abbott Street	Stop	Abbott Street at Great Plain Avenue	Just northeast of Great Plain Avenue	Northwest-Southeast
-005	Admiral Gracey Drive	Stop	Admiral Gracey Drive at Kingsbury Street	Just north of Kingsbury Street	East-West
P-006	Andrea Circle	Stop	Andrea Circle at Hunnewell Street	Just southwest of Hunnewell Street	Northwest-Southeast
P-007	Avery Square	Stop	Avery Square at Highland Avenue	Just west of Highland Avenue	North-South
P-008	Beaufort Avenue	Stop	Beaufort Avenue at Mount Vernon Avenue	Just north of Mount Vernon Avenue	East-West
P-009	Bennington Street	Stop	Bennington Street at High Street	Just southeast of High Street	Southwest-Northeast
P-010	Beth Israel Hospital Entrance/Exit	Stop	Beth Israel Hospital	Just east of Chestnut Street	North-South
P-011	Birch Street	Stop	Birch Street at West Street	Just south of West Street	East-West
P-012	Bird Street	Stop	Bird Street at Greendale Avenue	Just southwest of Greendale Avenue	Northwest-Southeast
P-013	Blacksmith Drive	Stop	Blacksmith Drive at Nehoiden Street	Just southwest of Nehoiden Street	Northwest-Southeast
P-014	Bobsled Drive	Stop	Bobsled Drive at Hunnewell Street	Just southwest of Hunnewell Street	Northwest-Southeast
-015	Border Road	Stop	Border Road at Nehoiden Street	Just south of Nehoiden Street	East-West
-016	Bradford Street	Stop	Bradford Street at Harris Avenue	Just south of Harris Avenue	East-West
-017	Bradford Street	Stop	Bradford Street at Great Plain Avenue	Just south of Great Plain Avenue	East-West
-018	Briarwood Circle	Stop	Briarwood Circle at Hunnewell Street	Just west of Hunnewell Street	Northwest-Southeast
P-019	Broad Meadow Road	Stop	Broad Meadow Road at Great Plain Avenue	Just east of Great Plain Avenue	Northwest-Southeast
P-020	Broad Meadow Road	Stop	Broad Meadow Road at Bird Street	Just northeast of Bird Street	North-South
P-021	Broad Meadow Road	Stop	Broad Meadow Road at Greendale Avenue	Just west of Greendale Avenue	North-South
P-022	Broadmeadow Elementary School	Stop	Broadmeadow Elementary School	Just south of Broad Meadow Road and Bird Street	East-West
P-023	Brookline Street	Stop	Brookline Street at Webster Street	Just east of Webster Street	North-South
-024	Brookline Street	Stop	Brookline Street at Manning Street	Just east of Manning Street	North-South
P-025	Brookline Street	Stop	Brookline Street at Manning Street	Just west of Manning Street	North-South
P-026	Brookline Street	Stop	Brookline Street at Greendale Avenue	Just southwest of Greendale Avenue	East-West
P-027	Cabot Street	Stop	Cabot Street at 1st Avenue	Just east of 1st Avenue	North-South
P-028	Carol Road	Stop	Carol Road at Great Plain Avenue	Just south of Great Plain Avenue	East-West
P-029	Carriage Lane	Stop	Carriage Lane at Chestnut Street	Just east of Chestnut Street	North-South
P-030	Castano Court	Stop	Castano Court at Hunnewell Street	Just southwest of Hunnewell Street	Northwest-Southeast
P-031	Cedar Street	Stop	Cedar Street at Central Avenue	Just northwest of Central Avenue	Southwest-Northeast
P-032	Coolidge Avenue	Stop	Coolidge Avenue at Great Plain Avenue	Just south of Great Plain Avenue	East-West
P-033	Coulton Park	Stop	Coulton Park at Harris Avenue	Just south of Harris Avenue	East-West
P-034	Crescent Road	Stop	Crescent Road at West Street	Just north of West Street	East-West
P-035	Curtis Road	Stop	Curtis Road at Great Plain Avenue	Just north of Great Plain Avenue	Northwest-Southeast
P-036	Curve Street	Stop	Curve Street at Great Plain Avenue	Just south of Great Plain Avenue	East-West
P-037	Dale Street	Stop	Dale Street at West Street	Just south of West Street	East-West
P-038	Dawson Drive	Stop	Dawson Drive at Broad Meadow Road	Just north of Broad Meadow Road	Southwest-Northeast
P-039	Douglas Road	Stop	Douglas Road at Great Plain Avenue	Just northeast of Great Plain Avenue	Northwest-Southeast
P-040	Eaton Road	Stop	Eaton Road at Great Plain Avenue	Just south of Great Plain Avenue	East-West
P-041	Ellicott Street	Stop	Ellicott Street at Great Plain Avenue	Just north of Great Plain Avenue	East-West
P-041	Elliot Street	Stop	Elliot Street at West Street	Just south of West Street	East-West
P-043	Enslin Road	Stop	Enslin Road at Greendale Avenue	Just west of Greendale Avenue	North-South
P-044	Fair Oaks Park	Stop	Fair Oaks Park at Great Plain Avenue	Just north of Great Plain Avenue	East-West
P-044 P-045	Fair Oaks Park Fair Oaks Park	Stop	Fair Oaks Park at Great Plain Avenue	Western xwalk, just south of Great Plain Avenue	East-West
P-045	Fair Oaks Park	Stop	Fair Oaks Park at Great Plain Avenue	Eastern xwalk, Just south of Great Plain Avenue	East-West East-West
2-046 2-047	Fletcher Road	Stop	Fletcher Road at Chestnut Street	Just east of Chestnut Street	North-South
P-047 P-048	Fuller Brook Avenue	•	Fuller Brook Avenue at Great Plain Avenue	Just north of Great Plain Avenue	East-West
P-048 P-049		Stop	Gage Street at Great Plain Avenue	Just north of Great Plain Avenue	East-West
	Gage Street	Stop			
P-050	Garden Street	Stop	Garden Street at May Street	Just north of Great Plain Avenue	East-West
P-051	Garden Street	Stop	Garden Street at May Street	Just north of May Street	East-West
P-052	Garden Street	Stop	Garden Street at May Street	Just south of May Street	East-West
P-053	Gay Street George Street	Stop	Gay Street at Central Avenue George Street at Great Plain Avenue	Just east of Central Avenue  Just south of Great Plain Avenue	North-South East-West



## Greenman-Pedersen, Inc. | 181 Ballardvale Street, Suite 202, Wilmington, MA 01887 NEEDHAM STOP CONTROLLED CROSSWALKS- NEEDHAM, MA

Crosswalk ID	Street	Control	Nearest Landmark	Location Description	Direction
P-055	Gerber Circle	Stop	Gerber Circle at Hunnewell Street	Just northeast of Hunnewell Street	Northwest-Southeast
P-056	Glen Cary Road	Stop	Glen Cary Road at West Street	Just north of West Street	East-West
P-057	Glendoon Road	Stop	Glendoon Road at Great Plain Avenue	Just north of Great Plain Avenue	East-West
P-058	Gould Street	Stop	Gould Street at Central Avenue	Just southeast of Central Avenue	Southwest-Northeast
P-059	Grant Street	Stop	Grant Street at Dedham Avenue	Just southwest of Dedham Avenue	Northwest-Southeast
P-060	Great Plain Avenue	Stop	Great Plain Avenue at Mount Vernon Avenue/Beaufort Avenue	Just north of Great Plain Avenue/ Wilshire Park	Northwest-Southeast
P-061	Great Plain Terrace	Stop	Great Plain Terrace at Great Plain Avenue	Just north of Great Plain Avenue	Northwest-Southeast
TP-062	Green Street	Stop	Green Street at Great Plain Avenue	Just southwest of Great Plain Avenue	Northwest-Southeast
TP-063	Greendale Avenue	Stop	Greendale Avenue at Webster Street	Just east of Webster Street	North-South
ГР-064	Greendale Avenue	Stop	Greendale Avenue at High Street	Just north of High Street	East-West
TP-065	Greenwood Avenue	Stop	Greenwood Avenue at Great Plain Avenue	Just north of Great Plain Avenue	East-West
ГР-066	Grosvenor Road	Stop	Grosvenor Road at Broad Meadow Road	Just southeast of Broad Meadow Road	Southwest-Northeast
TP-067	Grosvenor Road	Stop	Grosvenor Road at Greendale Avenue	Just west of Greendale Avenue	North-South
ГР-068	Hamilton Lane	Stop	Hamilton Lane at Greendale Avenue	Just west of Greendale Avenue	North-South
P-069	Hamilton Place	Stop	Hamilton Place at Central Avenue	Just north of Central Avenue	Southwest-Northeast
ΓP-070	Harris Avenue	Stop	Harris Avenue at Dedham Avenue	Just northeast of Dedham Avenue	Northwest-Southeast
ΓP-073	Harris Avenue	Stop	Harris Avenue at Great Plain Avenue	Just southwest of Great Plain Avenue	Northwest-Southeast
ГР-074	High Rock Street	Stop	High Rock Street at Marked Tree Road	Just south of Marked Tree Road	East-West
TP-075	High Rock Street	Stop	High Rock Street at Central Avenue	Just east of Central Avenue	North-South
ГР-076	Highland Terrace	Stop	Highland Terrace at Highland Avenue	Just southeast of Highland Avenue	Southwest-Northeast
TP-077	Hildreth Place	Stop	Hildreth Place at Highland Avenue	Just west of Highland Avenue	North-South
TP-078	Hill Street	Stop	Hill Street at Hunnewell Street	Just southwest of Hunnewell Street	Northwest-Southeast
TP-079	Hillcrest Road	Stop	Hillcrest Road at Great Plain Avenue	Just northeast of Great Plain Avenue	Northwest-Southeast
TP-080	Hillside Avenue	Stop	Hillside Avenue at Rosemary Street	Just north of Rosemary Street	East-West
ΓP-081	Hillside Avenue	Stop	Hillside Avenue at Webster Street	Just west of Webster Street	North-South
ГР-082	Hillside Avenue	Stop	Hillside Avenue at West Street	Just north of West Street	East-West
ГР-083	Hillside Avenue	Stop	Hillside Avenue at Hunnewell Street	Just south of Hunnewell Street	Northwest-Southeast
ГР-084	Hillside Avenue	Stop	Hillside Avenue at Hunnewell Street	Just north of Hunnewell Street	Northwest-Southeast
ГР-085	Hunnewell Street	Stop	Hunnewelll Street at Webster Street	Just west of Webster Street	North-South
TP-086	Hunnewell Street	Stop	Hunnewell Street at West Street	Just south of West Street	East-West
ГР-087	Hunnewell Street	Stop	Hunnewell Street at West Street	Just north of West Street	East-West
TP-088	Hunnewell Street	Stop	Hunnewell Street at Highland Avenue	Just east of Highland Avenue	North-South
ГР-089	Hunnewell Street	Stop	Hunnewell Street at Highland Avenue	Just west of Highland Avenue	North-South
гР-090	Ivy Road	Stop	Ivy Road at Great Plain Avenue	Just west of Great Plain Avenue	North-South
TP-091	James Avenue	Stop	James Avenue at Manning Street	Just east of Manning Street	North-South
ΓP-092	Jenna Circle	Stop	Jenna Circle at Central Avenue	Just west of Central Avenue	North-South
TP-093	Junction Street	Stop	Junction Street at Chestnut Street	Just east of Chestnut Street	North-South
TP-094	Kingsbury Street	Stop	Kingsbury Street at Webster Street	Just west of Webster Street	North-South
ГР-095	Lantern Lane	Stop	Lantern Lane at Chestnut Street	Just east of Chestnut Street	North-South
ГР-096	Lester Street	Stop	Lester Street at Hunnewell Street	Just northeast of Hunnewell Street	Northwest-Southeast
TP-097	Lewis Street	Stop	Lewis Street at Nehoiden Street	Just east of Nehoiden Street	North-South
TP-098	Lincoln Street	Stop	Lincoln Street at Dedham Avenue	Just south of Dedham Avenue	Northwest-Southeast
TP-099	Lincoln Street	Stop	Lincoln Street at School Street	Just north of School Street	East-West
ΓP-100	Lincoln Street	Stop	Lincoln Street at School Street	Just south of School Street	East-West
TP-101	Lindbergh Avenue	Stop	Lindbergh Avenue at Webster Street	Just east of Webster Street	North-South
P-101 P-102	Lindbergh Avenue	Stop	Lndbergh Avenue at Manning Street	Just west of Manning Street	North-South
P-102 P-103	Lindbergh Avenue	Stop	Lindbergh Avenue at Manning Street  Lindbergh Avenue at Manning Street	Just east of Manning Street  Just east of Manning Street	North-South
P-103 P-104	Lindbergh Avenue	Stop	Lindbergh Avenue at Manning Street Lindbergh Avenue at Paul Revere Road	Just southwest of Paul Revere Road	Northwest-Southeast
ΓP-104 ΓP-105	Lindbergh Avenue Linden Street	·	Lindbergh Avenue at Paul Revere Road  Linden Street at Great Plain Avenue	Just south west of Paul Revere Road  Just south of Great Plain Avenue	East-West
		Stop			
ΓP-106	Linden Street	Stop	Linden Street at Oak Street	Just south of Oak Street	East-West
ΓP-107	Linden Street	Stop	Linden Street at Oak Street	Just north of Oak Street	East-West
TP-108	Manning Street	Stop	Manning Street at Great Plain Avenue	Just north of Great Plain Avenue	East-West
TP-109	Manning Street  Manning Street	Stop	Manning Street at Brookline Street  Manning Street at Brookline Street	Just south of Brookline Street  Just north of Brookline Street	East-West



### Greenman-Pedersen, Inc. | 181 Ballardvale Street, Suite 202, Wilmington, MA 01887 NEEDHAM STOP CONTROLLED CROSSWALKS- NEEDHAM, MA

Crosswalk ID	Street	Control	Nearest Landmark	Location Description	Direction
ГР-111	Manning Street	Stop	Manning Street at High Street	Just southeast of High Street	Southeast-Northeast
P-112	Maple Street	Stop	Maple Street at Great Plain Avenue	Just south of Great Plain Avenue	East-West
P-113	Maple Street	Stop	Maple Street at Oak Street	Just south of Oak Street	East-West
P-114	Maple Street	Stop	Maple Street at Oak Street	Just north of Oak Street	East-West
P-115	Mark Lee Road	Stop	Mark Lee Road at Highland Avenue	Just east of Highland Avenue	North-South
P-116	Marked Tree Road	Stop	Marked Tree Road at Central Avenue	Just east of Central Avenue	North-South
P-117	Marked Tree Road	Stop	Marked Tree Road at High Rock Street	Just west of High Rock Street	North-South
P-118	Marked Tree Road	Stop	Marked Tree Road at Great Plain Avenue	Just south of Great Plain Avenue	East-West
P-119	Marsh Road	Stop	Marsh Road at Chestnut Street	Just west of Chestnut Street	North-South
P-120	Marshall Street	Stop	Marshall Street at Great Plain Avenue	Just north of Great Plain Avenue	East-West
P-121	Mason Road	Stop	Mason Road at Great Plain Avenue	Just northeast of Great Plain Avenue	Northwest-Southeast
P-122	May Street	Stop	May Street at Nehoiden Street	Just east of Nehoiden Street	North-South
P-123	May Street	Stop	May Street at Webster Street	Just west of Webster Street	North-South
P-124	Mayflower Road	Stop	Mayflower Road at Great Plain Avenue	Just south of Great Plain Avenue	East-West
P-125	Mayo Avenue	Stop	Mayo Avenue at Harris Avenue	Just north of Harris Avenue	East-West
P-126	Mayo Avenue	Stop	Mayo Avenue at Great Plain Avenue	Just south of Great Plain Avenue	East-West
P-127	MBTA Hersey Commuter Lot	Stop	MBTA Hersey Commuter Station	Just west of Great Plain Avenue	North-South
P-128	MBTA Hersey Commuter Lot	Stop	MBTA Hersey Commuter Station	Just southwest of Great Plain Avenue	Northwest-Southeast
P-129	MBTA Needham Center Commutor Lot	Stop	MBTA Needham Center Commutor Station	Just west of Chapel Street	North-South
P-130	MBTA Needham Heights Commuter Lot	Stop	MBTA Needham Heights Commuter Stattion	Just north of West Street	East-West
P-131	McCulloch Street	Stop	McCulluch Street at West Street	Just north of West Street	East-West
P-132	Meadowbrook Road	Stop	Meadowbrook Road at Nehoiden Street	Just south of Nehoiden Street	East-West
P-133	Meadowbrook Road	Stop	Meadowbrook Road at Newell Avenue	Just west of Newell Avenue	North-South
P-134	Melrose Avenue	Stop	Melrose Avenue at Great Plain Avenue	Just north of Great Plain Avenue	East-West
P-135	Mitchell Elementary School	Stop	Mitchell Elementary School	Just north of Brookline Street and just west of Dell Avenue	East-West
P-136	Mitchell Elementary School	Stop	Mitchell Elementary School	Just north of Brookline Street, Mitchell School Exit	East-West
P-137	Mitchell Elementary School	Stop	Mitchell Elementary School	Just north of Brookline Street, Mitchell School Entrance	East-West
P-138	MITTCOM Driveway	Stop	MITCOM Driveway	Just southeast of A Street	Southwest-Northeast
P-139	Mt. Vernon Avenue	Stop	Mount Vernon Avenue at Beaufort Street	Just east of Beaufort Street	North-South
P-140	Needham Gateway Shops Driveway	Stop	Needham Gateway Shops Driiveway at 2nd Avenue	Just north of 2nd Avenue	East-West
P-141	Needham High School	Stop	Needham High School	Just west of Webster Street, southern driveway	North-South
P-142	Needham High School	Stop	Needham High School	Just west of Webster Street, northern driveway	North-South
P-143	Nehoiden Street	Stop	Nehoiden Street at Central Avenue	Just east of Central Avenue, southern intersection	North-South
P-144	Nehoiden Street	Stop	Nehoiden Street at Central Avenue	Just east of Central Avenue, northern intersection	North-South
P-145	Nehoiden Street	Stop	Nehoiden Street at Great Plain Avenue	Just north of Great Plain Avenue	East-West
P-146	Newbury Park	Stop	Newbury Park at Broad Meadow Road	Just north of Broad Meadow Road	East-West
P-147	Newell Avenue	Stop	Newell Avenue at Nehoiden Street	Just west of Nehoiden Street	North-South
P-148	Newell Avenue	Stop	Newell Avenue at Prospect Street/Lewis Street	Just south of Prospect Street/Lewis Street	East-West
P-149	Newell Avenue	Stop	Newell Avenue at Lewis Street	Just west of Lewis Street	Northwest-Southeast
P-150	Newell Avenue	Stop	Newell Avenue at Great Plain Avenue	Just north of Great Plain Avenue	East-West
P-151	Newman Elementary Entrance/Exit	Stop	Newman Elementary School	Just west of Central Avenue	North-South
P-152	North Hill Avenue	Stop	North Hill Avenue at Great Plain Avenue	Just north of Great Plain Avenue	East-West
P-153	North Hill Entrance/Exit	Stop	North Hill Retirement Center at Central Avenue	Just west of Central Avenue	North-South
P-154	Noyes Street	Stop	Noyes Street at Great Plain Avenue	Just south of Great Plain Avenue	East-West
P-154 P-155	Noyes Street	Stop	Noyes Street at Great Plain Avenue	Just north of Great Plain Avenue	East-West
P-156	Oak Knoll Terrance	Stop	Oak Knoll Terrace at Great Plain Avenue	Just north of Great Plain Avenue	East-West
P-150 P-157	Oak Know Terrance Oak Street	Stop	Oak Street at Linden Street	Just west of Linden Street	North-South
P-157 P-158	Oak Street	Stop	Oak Street at Linden Street  Oak Street at Linden Street	Just east of Linden Street  Just east of Linden Street	North-South
P-158 P-159	Oak Street Oakland Avenue			Just north of May Street	East-West
	Oakland Avenue Oakland Avenue	Stop	Oakland Avenue at Highland Avenue	, ,	
P-160		Stop	Oakland Avenue at Highland Avenue	Just east of Highland Avenue	North-South
P-161	Old Farm Road	Stop	Old Farm Road at Great Plain Avenue	Just southwest of Great Plain Avenue	Northwest-Southeast
P-162	Parcel B Access Road	Stop	Parcel B Access Road at Olin Way	Just east of Olin Way	North-South
P-163	Parish Road	Stop	Parish Road at Rosemary Street	Just north of Rosemary Street	East-West



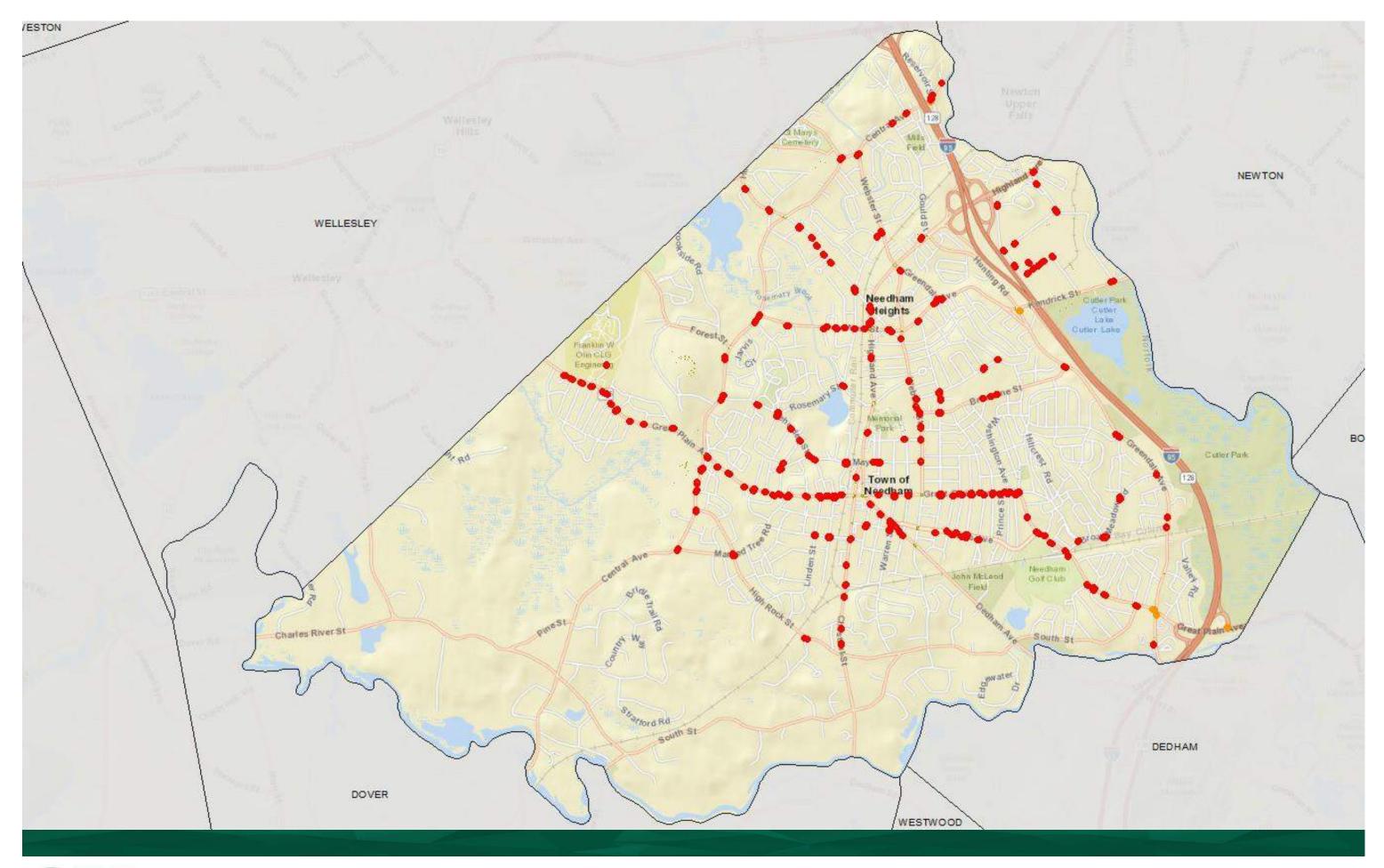
## Greenman-Pedersen, Inc. | 181 Ballardvale Street, Suite 202, Wilmington, MA 01887 NEEDHAM STOP CONTROLLED CROSSWALKS- NEEDHAM, MA

Crosswalk ID	Street	Control	Nearest Landmark	Location Description	Direction
TP-165	Pickering Street	Stop	Pickering Street at Great Plain Avenue	Just north of Great Plain Avenue	East-West
P-166	Pickering Street	Stop	Pickering Street at May Street	Just north of May Street	East-West
P-167	Pickering Street	Stop	Pickering Street at May Street	Just south of May Street	East-West
P-168	Pilgrim Road	Stop	Pilgrim Road at Great Plain Avenue	Just south of Great Plain Avenue	East-West
P-169	Pinewood Road	Stop	Pinewood Road at Harris Avenue	Just north of Harris Avenue	East-West
P-170	Pinewood Road	Stop	Pinewood Road at Great Plain Avenue	Just south of Great Plain Avenue	East-West
P-171	Pleasant Street	Stop	Pleasant Street at Dedham Avenue	Just southwest of Dedham Avenue	Northwest-Southeast
P-172	Plymouth Road	Stop	Plymouth Road at Great Plain Avenue	Just south of Great Plain Avenue	East-West
ΓP-173	Pollard Middle School	Stop	Pollard Middle School	Just south of Harris Avenue, western driveway	East-West
P-174	Pollard Middle School	Stop	Pollard Middle School	Just south of Harris Avenue, eastern driveway	East-West
P-175	Pollard Middle School	Stop	Pollard Middle School	Just south of Harris Avenue, Parking lot	East-West
P-176	Pond Street	Stop	Pond Street at Central Avenue	Just east of Central Avenue	North-South
P-177	Powder House Circle	Stop	Powder House Circle at Great Plain Avenue	Just south of Great Plain Avenue	East-West
P-178	Prince Street	Stop	Prince Street at Great Plain Avenue	Just south of Great Plain Avenue	East-West
P-179	Prospect Street	Stop	Prospect Street at Great Plain Avenue	Just north of Great Plain Avenue	East-West
P-180	Reservoir Street	Stop	Reservoir Street at Central Avenue	Just south of Central Avenue	East-West
P-181	Reservoir Street	Stop	Reservoir Street at Central Avenue	Just north of Central Avenue	East-West
P-182	Richardson Drive	Stop	Richardson Drive at High Rock Street	Just south of High Rock Street	East-West
ΓP-183	Rivard Road	Stop	Rivard Road at Great Plain Avenue	Just south of Great Plain Avenue	East-West
P-184	Rosemary Street	Stop	Rosemary Street at Parish Road	Just east of Parish Road	North-South
ΓP-185	Rosemary Street	Stop	Rosemary Street at Webster Street	Just west of Webster Street	North-South
TP-186	Rybury Hillway	Stop	Rybury Hillway at Greendale Avenue	Just west of Greendale Avenue	North-South
ΓP-187	School Street	Stop	School Street at Warren Street	Just west of Warren Street	North-South
P-188	School Street	Stop	School Street at Warren Street	Just east of Warren Street	North-South
P-189	School Street	Stop	School Street at Dedham Avenue	Just southwest of Dedham Avenue	Northwest-Southeast
P-190	School Street	Stop	School Street at Lincoln Street	Just east of Lincoln Street	North-South
P-191	School Street	Stop	School Street at Lincoln Street	Just west of Lincoln Street	North-South
P-192	South Street	Stop	School Street at Great Plain Avenue	Just south of Great Plain Avenue	East-West
P-193	St. Mary Street	Stop	St. Mary Street at Central Avenue	Just north of Central Avenue	Southwest-Northeast
P-194	Standish Road	Stop	Standish Road at Great Plain Avenue	Just southwest of Great Plain Avenue	Northwest-Southeast
P-195	Stevens Road	Stop	Stevens Road at Harris Avenue	Just north of Harris Avenue	East-West
P-196	Stevens Road	Stop	Stevens Road at Great Plain Avenue	Just south of Great Plain Avenue	East-West
P-197	Stewart Road	Stop	Stewart Road at Great Plain Avenue	Just southwest of Great Plain Avenue	Northwest-Southeast
TP-198	Stockdale Road	Stop	Stockdale Road at Great Plain Avenue	Just south of Great Plain Avenue	East-West
ГР-199	Sunnyside Road	Stop	Sunnyside Road at Hillside Avenue	Just west of Hillside Avenue	North-South
P-200	Taylor Street	Stop	Taylor Street at Hunnewell Street	Just south of Hunnewell Street	East-West
ΓP-201	Taylor Street	Stop	Taylor Street at Hunnewell Street	Just north of Hunnewell Street	East-West
TP-202	Tower Avenue	Stop	Tower Avenue at Lindbergh Avenue	Just northwest of Lindbergh Avenue	Southwest-Northeast
ΓP-203	Tower Avenue	Stop	Tower Avenue at Lindbergh Avenue	Just southeast of Lindbergh Avenue	Southwest-Northeast
P-203	Tower Avenue	Stop	Tower Avenue at Greendale Avenue	Just south of Greendale Avenue	East-West
TP-205	TripAdvisor Driveway	Stop	TripAdvisor	Just northwest of B Street	Southwest-Northwest
TP-205	TripAdvisor Driveway	Stop	TripAdvisor	Just east of 1st Avenue	North-South
ΓP-200	TripAdvisor Driveway  TripAdvisor Driveway	Stop	TripAdvisor	At Residence Inn Driveway	Northwest-Southeast
P-208	Trout Pond Lane	Stop	Trout Pond Lane at Great Plain Avenue	Just south of Great Plain Avenue	East-West
					East-West East-West
P-209 P-210	Warren Street Warren Street	Stop	Warren Street at Great Plain Avenue Warren Street at Great Plain Avenue	Just north of Great Plain Avenue  Just south of Great Plain Avenue	East-West East-West
		Stop			
P-211	Warren Street Warren Street	Stop	Warren Street at Dedham Avenue	Just northeast of Dedham Avenue	Northwest-Southeast
P-212		Stop	Warren Street at School Street	Just porth of School Street	Northwest-Southeast
P-213	Warren Street	Stop	Warren Street at School Street	Just north of School Street	East-West
P-214	Warren Street	Stop	Warren Street at School Street	Just south of Creat Plain Avenue	East-West
P-215	Washburn Avenue	Stop	Washburn Avenue at Great Plain Avenue	Just north of Great Plain Avenue	East-West
P-216 P-219	Washington Street	Stop	Washington Street at Great Plain Avenue	Just north of Great Plain Avenue  Just south of Central Avenue, western intersection	East-West
	Webster Street	Stop	Webster Street at Central Avenue	Just south of Control Avanua, wastern intersection	East-West



#### Greenman-Pedersen, Inc. | 181 Ballardvale Street, Suite 202, Wilmington, MA 01887 NEEDHAM STOP CONTROLLED CROSSWALKS- NEEDHAM, MA

Crosswalk ID	Street	Control	Nearest Landmark	Location Description	Direction
STP-221	West Street	Stop	West Street at Central Avenue	Just east of Central Avenue	North-South
STP-222	Whiting Way	Stop	Whiting Way at Great Plain Avenue	Just south of Great Plain Avenue	East-West
STP-223	Whittier Road	Stop	Whittier Road at Great Plain Avenue	Just north of Great Plain Avenue	East-West
STP-224	Wilshire Park	Stop	Wilshire Park at Great Plain Avenue	Just south of Great Plain Avenue	East-West
STP-225	Wingate at Needham Entrance/Exit	Stop	Wingate at Needham at Highland Avenue	Just north of Highland Avenue	Southwest-Northeast
STP-226	Woodlawn Avenue	Stop	Woodlawn Avenue at Great Plain Avenue	Just south of Great Plain Avenue	East-West
STP-227	TripAdvisor Driveway	Stop	TripAdvisor at B Street	Northwest of B Street	Southwest-Northeast
STP-228	Residence Inn Driveway	Stop	Residence Inn Driveway at B Street	Northwest of B Street	Southwest-Northeast
STP-229	Residence Inn Driveway	Stop	Residence Inn Driveway at B Street	Northwest of B Street	Southwest-Northeast
STP-230	NBC Universal Boston Media Center	Stop	NBC Universal Boston Media Center at B Street	Northeast of B Street	East-West





#### Greenman-Pedersen, Inc. | 181 Ballardvale Street, Suite 202, Wilmington, MA 01887 NEEDHAM UNCONTROLLED CROSSWALKS- NEEDHAM, MA

Crosswalk ID	Street	Stop, Signal, Uncontrolled, Parking Lot?	Nearest Landmark	Location Description	Direction
UN-001	Beaufort Avenue	Uncontrolled	Perry Park	Hawthorn Avenue	Southwest-Northeast
UN-002	Beaufort Avenue	Uncontrolled	Perry Park	Just north of Hawthorn Avenue	East-West
UN-003	Beaufort Avenue	Uncontrolled	Perry Park	Just north of Sargent Street	East-West
UN-004	Bird Street	Uncontrolled	Broadmeadow Elementary School	Broad Meadow Rd	East-West
UN-005	Broad Meadow Road	Uncontrolled	Broadmeadow Elementary School	Dawson Drive to Grosvenor Road	Northwest-Southeast
UN-006	Brookline Street	Uncontrolled	Mitchell Elementary School	130 feet west of Dell Avenue	North-South
UN-007	Central Avenue	Uncontrolled	Newman Elementary School	Just north of Newman Elementary School Driveway	East-West
UN-008	Central Avenue	Uncontrolled	John Eliot Elementary School	Just south of Cedar Street	Northeast-Southwest
UN-009	Central Avenue	Uncontrolled	<null></null>	Just east of Gould Street	North-South
UN-010	Central Avenue	Uncontrolled	<null></null>	Just west of St. Mary Street	North-South
UN-011	Central Avenue	Uncontrolled	Panella's Market	Resevoir Street	Northwest-Southeast
UN-012	Chapel Street	Uncontrolled	<null></null>	<null></null>	<null></null>
UN-013	Chestnut Street	Uncontrolled	Needham Junction	Just north of Junction Street	East-West
UN-014	Dedham Avenue	Uncontrolled	Townhall Park	Just southwest of Lincoln Street	Southwest-Northeast
UN-015	Dedham Avenue	Uncontrolled	Vesta Park	Just northwest of Warren Street	Southwest-Northeast
UN-016	Dedham Avenue	Uncontrolled	Vesta Park	Just southeast of Harris Avenue	Southwest-Northeast
UN-017	East Drive	Uncontrolled	Olin College of Engineering	Just northeast of Olin Way	Northwest-Southeast
UN-018	Gould Street	Uncontrolled	Mills Field	Approximately 350 feet northeast of Ellis Street	Southwest-Northeast
UN-019	Great Plain Avenue	Uncontrolled	Newman Elementary School	Just east of North Hill Avenue	North-South
UN-020	Great Plain Avenue	Uncontrolled	Olin College of Engineering	Just east of Stockdale Road	North-South
UN-021	Great Plain Avenue	Uncontrolled	United States Postal Service	Washburn Avenue to Linden Street	North-South
UN-022	Great Plain Avenue	Uncontrolled	Comelia's	Glendoon Road to Maple Street	North-South
UN-023	Great Plain Avenue	Uncontrolled	Greene's Field	Just west of Pickering Street	North-South
UN-024	Great Plain Avenue	Uncontrolled	Hersey Station	Just northwest of Broad Meadow Road	Southwest-Northeast
UN-025	Great Plain Avenue	Uncontrolled	Hazel's Bakery	Just southeast of Hillcrest Road	Southwest-Northeast
UN-025	Great Plain Avenue	Uncontrolled	Perry Park	Just northwest of Wilshire Park	Southwest-Northeast
UN-027	Great Plain Avenue	Uncontrolled	<null></null>	Greenwood Avenue to Pinewood Road	North-South
UN-027	Greendale Avenue	Uncontrolled	Saint Sebastian's School	Approximately 210 feet north of Hamlin Lane	East-West
UN-029	Greendale Avenue		<null></null>	Just south of Grosvenor Road	
		Uncontrolled	<null></null>		East-West
UN-030	Greendale Avenue	Uncontrolled		Just south of Intervale Road	East-West
UN-031	Harris Avenue	Uncontrolled	Pollard Middle School Pollard Middle School	Just west of Stevens Road	North-South
UN-032	Harris Avenue	Uncontrolled		Just west of Pinewood Road	North-South
UN-033	High Rock Street	Uncontrolled	Highrock School	Just south of Birchwood Road	Southwest-Northeast
UN-034	Highland Avenue	Uncontrolled	Needham Town Hall	Approximately 325 feet north of Great Plain Avenue	East-West
UN-035	Highland Avenue	Uncontrolled	Needham Memorial Park	Just north of Oakland Avenue	East-West
UN-036	Highland Avenue	Uncontrolled	Interstate 95 Northbund Ramps	Just east 1st Avenue	North-South
UN-037	Highland Avenue	Uncontrolled	Heights Common	Avery Square to Mark Lee Road	East-West
UN-038	Highland Avenue	Uncontrolled	United States Postal Service	Hunnewall Street	East-West
UN-039	Hillside Avenue	Uncontrolled	Cricket Field	Just south of Sunnyside Road	East-West
UN-040	Hunnewell Street	Uncontrolled		Hillside Avenue	Southwest-Northeast
UN-041	Hunnewell Street	Uncontrolled		Hillside Avenue	Southwest-Northwest
UN-042	Interstate 95 On Ramp	Uncontrolled	Interstate 95 Northbound On-Ramp Exit 19B	Interstate 95 Northbound On-Ramp Exit 19B, Just north of Highland Avenue	Southwest-Northeast
UN-043	Interstate-95 On Ramp	Uncontrolled	Interstate 95 Northbound Ramps Exit 18	Northbound On-Ramp, Just north of Great Plain Avenue	East-West
UN-044	Kingsbury Street	Uncontrolled	Needham High School	Just east of Admiral Gracey Drive	North-South
UN-045	Lindbergh Avenue	Uncontrolled	Mitchell Elementary School	Just east of Tower Avenue	North-South
UN-046	Lindbergh Avenue	Uncontrolled	Michell Elementary School	Just west of Tower Avenue	North-South
UN-047	Manning Street	Uncontrolled	Needham High School	Just north of Lindbergh Avenue	East-West
UN-048	Manning Street	Uncontrolled	Needham High School	Just south of Lindbergh Avenue	East-West
UN-049	Map Hill Drive	Uncontrolled	Olin College of Engineering	Coleman Parking Lot	Southwest-Northeast
UN-050	Map Hill Drive	Uncontrolled	Olin College of Engineering	West of East Drive	Northwest-Southeast
UN-051	Map Hill Drive	Uncontrolled	Olin College of Engineering	East of Mandell Family Hall	East-West
UN-052	May Street	Uncontrolled	Needham Center Station	Just west of Garden Street	North-South

UN-053	May Street	Uncontrolled	Needham Center Stattion	Just east of Garden Street	North-South
UN-054	May Street	Uncontrolled	St. Joseph Elementary School	Just west of Pickering Street	North-South
UN-055	May Street	Uncontrolled	St. Jospeh Elementary School	Just east of Pickering Avenue	North-South
UN-056	Nehoiden Street	Uncontrolled	Needham Cementary	Just east of Meadowbrook Road	Southwest-Northeast
UN-057	Newell Avenue	Uncontrolled	<null></null>	From Meadowbrook Road to Lewis Street	Northwest-Southeast
UN-058	Oak Street	Uncontrolled	<null></null>	Just east of Maple Street	North-South
UN-059	Oak Street	Uncontrolled	<null></null>	Just west of Maple Street	North-South
UN-060	Olin Way	Uncontrolled	Olin College of Engineering	Approximately 165 feet north of Great Plain Avenue, from parking lot	East-West
UN-061	Olin Way	Uncontrolled	Olin College of Engineering	From Govoni Field to Parcel B Access Road	East-West
UN-062	Paul Revere Road	Uncontrolled	Mitchell Elementary School	Just northwest of Lindbergh Avenue	East-West
UN-063	Webster Street	Uncontrolled	Needham High School	Just north of May Street	East-West
UN-064	Webster Street	Uncontrolled	Needham High School	Just north of Holland Street	East-West
UN-065	Webster Street	Uncontrolled	Needham High School	Approximately 180 feet south of Lindbergh Avenue	East-West
UN-066	West Street	Uncontrolled	Hillside Elementary School	Just west of Glen Gary Road	North-South

C	Cll	
Crosswalk ID	Street	
UN-001	Beaufort Avenue	
UN-002	Beaufort Avenue	
UN-003	Beaufort Avenue	
UN-004	Beaufort Avenue	
UN-005	Bird Street	NEWTON
UN-006	Broad Meadow Road	NEW YOR
		. Whether
UN-007	Brookline Street	
UN-008	Central Avenue	Welfaster Welfaster
UN-009	Central Avenue	A STATE OF THE PARTY OF THE PAR
UN-010	Central Avenue	
UN-011	Central Avenue	
UN-012	Chapel Street	
UN-013	Chestnut Street	
UN-014		WELLESLEY
	Dedham Avenue	
UN-015	Dedham Avenue	
UN-016	Dedham Avenue	
UN-017	East Drive	
UN-018	Gould Street	
UN-019	Great Plain Avenue	
UN-020	Great Plain Avenue	
UN-021	Great Plain Avenue	
UN-022	Great Plain Avenue	Nee dham
UN-023	Great Plain Avenue	(a) (b) (b) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d
UN-024	Great Plain Avenue	6 Wa 9
UN-025	Great Plain Avenue	Formet or
UN-026	Great Plain Avenue	
UN-027	Great Plain Avenue	
UN-028	Greendale Avenue	
UN-029	Greendale Avenue	
UN-030	Greendale Avenue	
UN-031	Harris Avenue	A STATE OF THE PROPERTY OF THE
UN-032	Harris Avenue	
UN-033	High Rock Street	
UN-034	Highland Avenue	
UN-035	Highland Avenue	
UN-036	Highland Avenue	ageTown of \$ \$
UN-037	Highland Avenue	a a Neatham Great File Ave 3
UN-038	Highland Avenue	
UN-039	Hillside Avenue	
UN-040	Hunnewell Street	
UN-041	Hunnewell Street	
UN-042	Interstate 95 On Ramp	Married 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		Frenchum Co Science Control of the C
UN-043	Interstate-95 On Ramp	B A A A A A A A A A A A A A A A A A A A
UN-044	Kingsbury Street	
UN-045	Lindbergh Avenue	
UN-046	Lindbergh Avenue	
UN-047	Manning Street	Charles Rivor St. 30 Company Company
UN-048	Manning Street	Charles River St. Structures 10 Charles River St. Structures 1
UN-049	Map Hill Drive	
UN-050	Map Hill Drive	
UN-051	Map Hill Drive	
UN-052	May Street	
UN-053	May Street	
UN-054	May Street	Moord Rd
UN-055	May Street	
UN-056	Nehoiden Street	
UN-057	Newell Avenue	DEDHAM
UN-058	Oak Street	
UN-059	Oak Street	
UN-060	Olin Way	DOVER
UN-061	Olin Way	
UN-062	Paul Revere Road	
UN-063	Webster Street	
UN-064	Webster Street	WEETWOOD
UN-065	Webster Street	/ WESTWOOD
<u>UN-066</u>	West Street	



#### **APPENDIX**

- A. Preliminary High-Risk Crosswalk Locations Report
- B. Crosswalk Inventory Attribute Lists & Maps
- C. Traffic Counts
- D. MassDOT Crash Data





City, State: Needham, MA Client: GPI/N.Rogers NB

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 A Class Site Code: MAX2017099.1

IND														
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
11/28/1														
8	0	17	2	0	0	0	0	0	0	0	0	0	0	19
01:00	0	8	0	1	1	0	0	0	0	0	0	0	0	10
02:00	0	2	0	0	0	1	0	0	1	0	0	0	0	4
03:00	0	6	0	1	0	1	0	0	0	0	0	0	0	8
04:00	0	13	3	0	3	1	0	0	0	0	0	0	0	20
05:00	1	44	19	1	1	3	0	2	1	0	0	0	0	72
06:00	0	134	46	2	9	3	1	1	0	0	0	0	0	196
07:00	6	339	68	2	7	4	0	2	0	0	0	0	0	428
08:00	4	356	70	8	20	7	0	1	0	0	0	0	0	466
09:00	2	364	63	5	17	2	0	2	1	0	0	0	0	456
10:00	4	320	54	3	17	1	0	2	3	0	0	0	0	404
11:00	10	297	50	1	6	2	1	3	1	0	0	0	0	371
12 PM	6	373	45	1	9	3	0	1	2	0	0	0	0	440
13:00	4	370	49	3	4	9	0	1	0	0	0	0	0	440
14:00	9	291	44	2	5	4	0	1	1	1	0	0	0	358
15:00	7	338	54	5	7	3	0	0	0	0	0	0	0	414
16:00	1	311	43	2	4	4	1	1	0	0	0	0	0	367
17:00	7	265	40	2	7	2	0	2	0	0	0	0	0	325
18:00	1	287	39	1	3	3	0	0	0	0	0	0	0	334
19:00	0	171	50	1	8	1	0	1	0	0	0	0	0	232
20:00	2	171	17	0	2	0	0	0	0	0	0	0	0	192
21:00	0	129	5	2	1	0	0	0	0	0	0	0	0	137
22:00	1	43	9	0	0	1	0	0	0	0	0	0	0	54
23:00	0	31	6	0	2	0	0	0	0	0	0	0	0	39
Total	65	4680	776	43	133	55	3	20	10	1	0	0	0	5786
Percent	1.1%	80.9%	13.4%	0.7%	2.3%	1.0%	0.1%	0.3%	0.2%	0.0%	0.0%	0.0%	0.0%	
AM	11:00	09:00	08:00	08:00	08:00	08:00	06:00	11:00	10:00					08:00
Peak														
Vol.	10	364	70	8	20	7	1	3	3					466
PM	14:00	12:00	15:00	15:00	12:00	13:00	16:00	17:00	12:00	14:00				12:00
Peak														
Vol.	9	373	54	5	9	9	1	2	2	1				440



Highland Avenue south of Rosemary Street (between stairways) City, State: Needham, MA

Clity, State: Neednam, Client: GPI/N.Rogers

NB

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 A Class Site Code: MAX2017099.1

Start Cars & 2 Axle 2 Axle 3 Axle 4 Axle <5 Axl 5 Axle >6 AxI <6 AxI 6 Axle >6 AxI Bikes Double Time **Trailers** Long **Buses** 6 Tire Single Single Double Double Multi Multi Multi Total 11/29/1 01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00 12 PM 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00 Total 0.0% Percent 1.2% 83.0% 11.6% 0.6% 2.0% 1.0% 0.4% 0.2% 0.0% 0.0% 0.0% 0.0% AM 07:00 08:00 08:00 08:00 10:00 11:00 11:00 07:00 05:00 08:00 Peak Vol. PM 15:00 12:00 12:00 12:00 12:00 16:00 15:00 17:00 12:00 Peak Vol.



Highland Avenue south of Rosemary Street (between stairways) City, State: Needham, MA Client: GPI/N.Rogers SB

186604 A Class Site Code: MAX2017099.1

Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
11/28/1														
8	0	17	1	0	0	0	0	0	0	0	0	0	0	18
01:00	0	7	0	0	0	0	0	0	0	0	0	0	0	7
02:00	0	3	0	0	0	1	0	0	0	0	0	0	0	4
03:00	0	5	0	0	1	2	0	0	0	0	0	0	0	8
04:00	1	8	0	0	1	2	0	1	1	0	0	0	0	14
05:00	0	43	12	1	4	1	0	1	0	0	0	0	0	62
06:00	2	134	32	4	3	1	0	0	0	0	0	0	0	176
07:00	3	334	38	5	9	5	0	2	0	0	0	0	0	396
08:00	3	301	24	5	9	2	1	0	0	0	0	0	0	345
09:00	4	304	44	6	14	2	0	0	2	0	0	0	0	376
10:00	3	338	40	4	13	2	0	0	0	0	0	0	0	400
11:00	8	366	30	1	9	3	1	1	0	0	0	0	0	419
12 PM	1	392	51	1	6	3	0	0	0	0	0	0	0	454
13:00	3	407	45	5	6	0	0	0	0	0	0	0	0	466
14:00	9	488	47	4	8	2	0	3	0	0	0	1	0	562
15:00	3	411	61	1	5	2	0	3	1	0	0	0	0	487
16:00	3	501	40	4	7	2	0	0	0	0	0	0	0	557
17:00	3	542	40	2	5	1	0	0	0	0	0	0	0	593
18:00	0	517	35	2	5	0	0	0	0	0	0	0	0	559
19:00	0	278	32	1	2	0	0	0	0	0	0	0	0	313
20:00	1	169	16	1	0	0	0	0	0	0	0	0	0	187
21:00	1	130	7	2	1	0	0	0	0	0	0	0	0	141
22:00	1	62	2	0	2	1	0	0	0	0	0	0	0	68
23:00	0	27	4	0	1	0	0	0	0	0	0	0	0	32
Total	49	5784	601	49	111	32	2	11	4	0	0	1	0	6644
Percent	0.7%	87.1%	9.0%	0.7%	1.7%	0.5%	0.0%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	
AM Peak	11:00	11:00	09:00	09:00	09:00	07:00	08:00	07:00	09:00					11:00
Vol.	8	366	44	6	14	5	1	2	2					419
PM							<u>'</u>							
Peak	14:00	17:00	15:00	13:00	14:00	12:00		14:00	15:00			14:00		17:00
Vol.	9	542	61	5	8	3		3	1			1		593



Highland Avenue south of Rosemary Street (between stairways) City, State: Needham, MA Client: GPI/N.Rogers SB

186604 A Class Site Code: MAX2017099.1

Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 Axl	5 Axle	>6 AxI	<6 Axl	6 Axle	>6 Axl	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
11/29/1														
8	0	13	4	0	1	0	0	0	0	0	0	0	0	18
01:00	0	1	0	0	1	0	0	0	0	0	0	0	0	2
02:00	0	4	2	0	1	0	0	0	0	0	0	0	0	7
03:00	0	4	0	0	0	0	0	1	0	0	0	0	0	5
04:00	0	9	1	0	1	2	0	1	1	0	0	0	0	15
05:00	1	39	8	0	7	1	0	1	1	0	0	0	0	58
06:00	1	136	35	4	3	3	0	0	0	0	0	0	0	182
07:00	4	345	44	7	8	5	0	3	1	0	0	0	0	417
08:00	3	323	32	5	9	1	0	0	0	0	0	0	0	373
09:00	3	356	42	4	4	4	0	0	1	0	0	0	0	414
10:00	1	352	42	2	12	1	0	0	0	0	0	0	0	410
11:00	1	409	44	2	11	3	0	1	0	0	0	0	0	471
12 PM	0	435	48	5	17	2	0	1	0	0	0	0	0	508
13:00	2	448	41	3	13	4	0	1	0	0	0	0	0	512
14:00	6	380	35	2	4	0	0	0	0	1	0	0	0	428
15:00	3	433	46	2	1	0	1	3	0	0	0	0	0	489
16:00	9	594	32	3	7	4	0	0	0	0	0	0	0	649
17:00	6	499	27	2	5	2	0	1	1	0	0	0	0	543
18:00	0	491	34	3	2	0	0	0	0	0	0	0	0	530
19:00	1	308	19	1	3	1	0	0	0	0	0	0	0	333
20:00	0	201	7	0	2	0	0	0	0	0	0	0	0	210
21:00	0	140	9	0	2	0	0	0	0	0	0	0	0	151
22:00	0	59	2	0	1	0	0	0	0	0	0	0	0	62
23:00	0	44	4	0	0	0	0	0	0	0	0	0	0	48
Total	41	6023	558	45	115	33	1	13	5	1	0	0	0	6835
Percent	0.6%	88.1%	8.2%	0.7%	1.7%	0.5%	0.0%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	
AM	07:00	11:00	07:00	07:00	10:00	07:00		07:00	04:00					11:00
Peak									01.00					
Vol.	4	409	44	7	12	5		3	1					471
PM	16:00	16:00	12:00	12:00	12:00	13:00	15:00	15:00	17:00	14:00				16:00
Peak														
Vol.	9	594	48	5	17	4	1	3	1	1				649



Highland Avenue south of Rosemary Street (between stairways) City, State: Needham, MA

Client: GPI/N.Rogers

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 A Speed Site Code: MAX2017099.1

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18		. 14	19						49			- 04	09_	9999		/0 IIC	Speeu
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02:00 0 0 0 0 0 0 0 2 2 2 0 0 0 0 0 0 0			0														
03:00 0 0 1 0 3 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								=	•								
04:00 0 0 0 1 2 5 6 6 6 0 0 0 0 0 0 0 20 41 35 05:00 2 2 1 1 12 29 24 1 1 1 0 0 0 0 0 0 72 37 32 06:00 0 6 17 39 90 38 4 2 0 0 0 0 0 0 0 196 35 31 07:00 35 38 97 123 107 25 2 0 0 0 0 0 0 1 1 428 32 25 08:00 18 31 108 198 93 14 2 0 0 0 0 0 1 1 428 32 25 08:00 18 31 108 198 93 14 2 0 0 0 0 0 1 1 466 31 26 09:00 22 47 109 182 82 11 2 0 0 0 0 0 0 0 1 1 456 30 25 10:00 32 32 110 159 55 11 2 0 0 0 0 0 0 0 3 3 404 29 24 11:00 32 52 118 104 54 5 3 0 0 0 0 0 0 0 3 3 371 29 23 12 PM 20 50 146 156 56 7 3 0 0 0 0 0 0 0 0 3 371 29 23 13:00 18 52 126 168 67 4 1 1 0 0 0 1 1 1 0 0 2 440 29 25 14:00 45 63 90 110 39 9 0 0 0 0 0 1 0 1 0 1 358 28 22 15:00 45 63 90 110 39 9 0 0 0 0 0 1 1 1 442 29 24 16:00 42 51 102 122 39 8 0 1 1 0 0 0 1 1 1 442 29 24 16:00 42 51 102 122 39 8 0 0 1 0 0 0 0 0 0 2 2 367 28 23 17:00 31 40 59 123 55 15 1 0 1 0 1 0 0 0 1 1 1 442 29 18:00 5 44 70 101 93 16 2 2 0 0 0 0 0 0 0 0 2 2 367 28 23 17:00 31 40 59 123 55 15 1 0 1 0 1 0 0 0 0 1 1 0 232 33 29 20:00 7 7 7 20 71 63 20 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 39 39 39 14			-	1					_	-							
05:00			-	1	-				_	-							
06:00 0 6 17 39 90 38 4 2 0 0 0 0 0 10 196 35 31 107:00 35 38 97 123 107 25 2 0 0 0 0 0 0 0 1 1428 32 25 88 97 123 107 25 2 0 0 0 0 0 0 0 1 1428 32 25 88 97 123 107 25 2 0 0 0 0 0 0 0 1 1428 32 25 89 90 122 47 109 182 82 11 2 0 0 0 0 0 0 0 1 1456 30 25 10:00 32 32 110 159 55 11 2 0 0 0 0 0 0 0 0 0 1 456 30 25 11:00 32 52 118 104 54 5 3 0 0 0 0 0 0 0 0 0 3 404 29 24 13:00 18 52 118 104 54 55 3 0 0 0 0 0 0 0 0 0 3 371 29 23 12 PM 20 50 146 156 56 7 3 0 0 0 0 0 0 0 0 0 2 440 29 24 13:00 18 52 126 168 67 4 1 0 0 0 1 1 1 0 2 440 29 25 14:00 45 63 90 110 39 9 0 0 0 0 0 1 1 0 1 358 28 22 15:00 43 45 105 150 57 7 2 3 0 0 0 0 0 1 1 0 1 358 28 22 15:00 43 45 105 150 57 7 7 2 3 0 0 0 0 0 1 1 0 1 358 28 22 15:00 43 45 105 150 57 7 7 2 3 0 0 0 0 0 0 0 2 367 28 23 17:00 31 40 59 123 55 15 1 0 0 1 0 0 0 0 0 2 337 32 32 17:00 31 40 59 123 55 15 1 0 0 1 0 0 0 0 0 0 2 337 32 26 19:00 1 7 30 79 91 20 3 0 0 0 0 0 0 0 0 2 334 32 26 19:00 1 7 7 20 71 63 20 2 1 1 0 1 0 0 0 2 334 32 26 19:00 1 7 7 20 71 63 20 2 1 1 0 1 0 0 0 0 0 0 137 34 30 22:00 2 1 1 1 1 3 21 13 2 1 13 2 1 10 0 0 0 0 0 0 0 0 0 137 34 30 22:00 2 1 1 1 1 13 21 13 2 1 13 2 1 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			-	1					1	-	-						
07:00         35         38         97         123         107         25         2         0         0         0         0         1         428         32         25           08:00         18         31         108         198         93         14         2         0         0         0         0         1         1         466         31         26           09:00         22         47         109         182         82         11         2         0         0         0         0         1         456         30         25           10:00         32         52         118         104         54         5         3         0         0         0         0         3         371         29         23           12 PM         20         50         146         156         56         7         3         0         0         0         0         2         440         29         24           13:00         18         52         126         1688         67         4         1         0         0         1         1         0         2         2440         29								•	2	-							
08:00         18         31         108         198         93         14         2         0         0         0         1         1         466         31         26           09:00         22         47         109         182         82         11         2         0         0         0         0         1         456         30         25           10:00         32         32         110         159         55         11         2         0         0         0         0         3         404         29         24           11:00         32         52         118         104         54         5         3         0         0         0         0         3         371         29         23           12 PM         20         50         146         156         56         7         3         0         0         0         0         2         440         29         24           13:00         18         52         126         168         67         4         1         0         0         1         1         4         2         25           14:00										-				1			
09:00   22									_	-	-			1			
10:00   32   32   110   159   55   11   2   0   0   0   0   0   0   3   404   29   24														1			
11:00   32   52   118   104   54   5   3   0   0   0   0   0   0   3   371   29   23									0	0	0			3			
12 PM   20   50   146   156   56   7   3   0   0   0   0   0   0   2   440   29   24     13:00   18   52   126   168   67   4   1   0   0   0   1   1   0   0   2   440   29   25     14:00   45   63   90   110   39   9   0   0   0   0   0   1   0   1   358   28   22     15:00   43   45   105   150   57   7   2   3   0   0   0   0   1   1   414   29   24     16:00   42   51   102   122   39   8   0   1   0   0   0   0   0   2   367   28   23     17:00   31   40   59   123   55   15   1   0   1   0   0   0   0   0   325   31   24     18:00   5   44   70   101   93   16   2   0   0   1   0   0   0   0   325   31   24     18:00   5   44   70   101   93   16   2   0   0   1   0   0   0   2   334   32   26     19:00   7   7   30   79   91   20   3   0   0   0   0   0   1   0   232   33   29     20:00   7   7   7   7   7   7   7   7   7									0	Ö	0						
13:00		20	50	146	156	56		3	0	0	0	0	0		440	29	
14:00       45       63       90       110       39       9       0       0       0       0       1       0       1       358       28       22         15:00       43       45       105       150       57       7       2       3       0       0       0       1       1       414       29       24         16:00       42       51       102       122       39       8       0       1       0       0       0       0       0       2       367       28       23         17:00       31       40       59       123       55       15       1       0       1       0       0       0       0       325       31       24         18:00       5       44       70       101       93       16       2       0       0       1       0       0       2334       32       26         19:00       1       7       30       79       91       20       3       0       0       0       0       1       0       232       33       29         21:00       7       7       20       71			52	126	168		4	1	0	0	1	1	0		440		
15:00					110			0	0	0	0	1	0	1			
16:00       42       51       102       122       39       8       0       1       0       0       0       0       2       367       28       23         17:00       31       40       59       123       55       15       1       0       1       0       0       0       0       325       31       24         18:00       5       44       70       101       93       16       2       0       0       1       0       0       2       334       32       26         19:00       1       7       30       79       91       20       3       0       0       0       0       1       0       2334       32       26         19:00       7       7       20       71       63       20       2       1       0       0       0       0       1       0       2322       33       29         21:00       1       5       13       45       50       21       2       0       0       0       0       0       137       34       30         22:00       2       1       1       13			45	105	150			2	3	0	0	0	1	1	414	29	
18:00       5       44       70       101       93       16       2       0       0       1       0       0       2       334       32       26         19:00       1       7       30       79       91       20       3       0       0       0       0       1       0       232       33       29         20:00       7       7       20       71       63       20       2       1       0       1       0       0       192       33       29         21:00       1       5       13       45       50       21       2       0       0       0       0       0       192       33       29         21:00       1       5       13       45       50       21       2       0       0       0       0       0       137       34       30         22:00       2       1       1       13       2       1       0       0       0       0       0       0       54       37       31       31       32       3       19       5786       39       39       34       34       34       34<	16:00	42	51	102	122	39	8	0	1	0	0	0	0	2	367	28	
19:00       1       7       30       79       91       20       3       0       0       0       0       1       0       232       33       29         20:00       7       7       20       71       63       20       2       1       0       1       0       0       192       33       29         21:00       1       5       13       45       50       21       2       0       0       0       0       0       137       34       30         22:00       2       1       1       13       21       13       2       1       0       0       0       0       0       0       137       34       30         22:00       2       1       1       13       21       13       2       1       0       0       0       0       0       54       37       31         23:00       1       0       1       5       15       10       6       1       0       0       0       0       0       39       39       34         Total       357       574       1327       1962       1179 <td< td=""><td>17:00</td><td>31</td><td>40</td><td>59</td><td>123</td><td>55</td><td>15</td><td>1</td><td>0</td><td>1</td><td>0</td><td>0</td><td>0</td><td>0</td><td>325</td><td>31</td><td>24</td></td<>	17:00	31	40	59	123	55	15	1	0	1	0	0	0	0	325	31	24
20:00 7 7 7 20 71 63 20 2 1 0 1 0 1 0 0 0 192 33 29 21:00 1 5 13 45 50 21 2 0 0 0 0 0 0 0 137 34 30 22:00 2 1 1 1 13 21 13 2 1 0 0 0 0 0 0 0 54 37 31 23:00 1 0 1 5 15 10 6 1 0 0 0 0 0 0 39 39 34  Total 357 574 1327 1962 1179 294 52 13 1 3 2 3 19 5786  % 6.2% 9.9% 22.9% 33.9% 20.4% 5.1% 0.9% 0.2% 0.0% 0.1% 0.0% 0.1% 0.3%  AM Peak 07:00 11:00 11:00 08:00 07:00 06:00 04:00 00:00  Peak Vol. 35 52 118 198 107 38 6 2 08:00 10:00 08:00  PM Peak 14:00 14:00 12:00 13:00 18:00 21:00 23:00 15:00 17:00 13:00 13:00 15:00 12:00	18:00	5	44	70	101	93	16	2	0	0	1	0	0	2	334	32	26
21:00       1       5       13       45       50       21       2       0       0       0       0       0       0       137       34       30         22:00       2       1       1       13       21       13       2       1       0       0       0       0       0       54       37       31         23:00       1       0       1       5       15       10       6       1       0       0       0       0       0       39       39       34         Total       357       574       1327       1962       1179       294       52       13       1       3       2       3       19       5786         %       6.2%       9.9%       22.9%       33.9%       20.4%       5.1%       0.9%       0.2%       0.0%       0.1%       0.0%       0.1%       0.3%         Peak       07:00       11:00       11:00       08:00       07:00       06:00       04:00       00:00       00:00       08:00       08:00       00:00       08:00       00:00       00:00       00:00       00:00       00:00       00:00       00:00       00:00       0	19:00	1	7	30	79	91	20	3	0	0	0	0	1	0	232	33	29
22:00         2         1         1         13         21         13         2         1         0         0         0         0         54         37         31           23:00         1         0         1         5         15         10         6         1         0         0         0         0         39         39         34           Total         357         574         1327         1962         1179         294         52         13         1         3         2         3         19         5786           %         6.2%         9.9%         22.9%         33.9%         20.4%         5.1%         0.9%         0.2%         0.0%         0.1%         0.0%         0.1%         0.3%           AM Peak         07:00         11:00         11:00         08:00         07:00         06:00         04:00         00:00         00:00         08:00         08:00         08:00           Vol.         35         52         118         198         107         38         6         2         1         3         466           PM Peak         14:00         14:00         13:00         18:00         21:0	20:00	7	7	20	71	63	20	2	1	0	1	0	0	0	192	33	29
23:00         1         0         1         5         15         10         6         1         0         0         0         0         39         39         34           Total         357         574         1327         1962         1179         294         52         13         1         3         2         3         19         5786           %         6.2%         9.9%         22.9%         33.9%         20.4%         5.1%         0.9%         0.2%         0.0%         0.1%         0.0%         0.1%         0.3%           AM Peak         07:00         11:00         11:00         08:00         07:00         06:00         04:00         00:00         00:00         08:00         08:00         08:00           Vol.         35         52         118         198         107         38         6         2         1         3         466           PM Peak         14:00         14:00         12:00         13:00         21:00         23:00         15:00         17:00         13:00         13:00         12:00         12:00	21:00	1	5	13	45	50	21	2	0	0	0	0	0	0	137	34	30
Total         357         574         1327         1962         1179         294         52         13         1         3         2         3         19         5786           %         6.2%         9.9%         22.9%         33.9%         20.4%         5.1%         0.9%         0.2%         0.0%         0.1%         0.0%         0.1%         0.3%           AM Peak         07:00         11:00         08:00         07:00         06:00         04:00         00:00         08:00         10:00         08:00           Vol.         35         52         118         198         107         38         6         2         1         3         466           PM Peak         14:00         14:00         12:00         13:00         21:00         23:00         15:00         17:00         13:00         13:00         12:00         12:00	22:00	2	1	1	13	21	13	2	1	0	0	0	0	0	54	37	31
%         6.2%         9.9%         22.9%         33.9%         20.4%         5.1%         0.9%         0.2%         0.0%         0.1%         0.0%         0.1%         0.3%           AM Peak Vol.         35         52         118         198         107         38         6         2         1         3         466           PM Peak         14:00         14:00         12:00         13:00         18:00         21:00         23:00         15:00         17:00         13:00         13:00         12:00         12:00		1							1							39	34
AM Peak Vol. 35 52 118 198 107 38 6 2 1 3 466  PM Peak Peak Vol. 35 14:00 12:00 13:00 18:00 21:00 23:00 15:00 17:00 13:00 13:00 15:00 12:00 12:00											-	_	_		5786		
Peak       07:00       11:00       08:00       07:00       06:00       04:00       00:00       08:00       10:00       08:00         Vol.       35       52       118       198       107       38       6       2       1       3       466         PM Peak       14:00       14:00       12:00       13:00       18:00       21:00       23:00       15:00       17:00       13:00       13:00       15:00       12:00       12:00		6.2%	9.9%	22.9%	33.9%	20.4%	5.1%	0.9%	0.2%	0.0%	0.1%	0.0%	0.1%	0.3%			
Peak Vol. 35 52 118 198 107 38 6 2 1 3 466  PM Peak 14:00 14:00 12:00 13:00 18:00 21:00 23:00 15:00 17:00 13:00 13:00 15:00 12:00 12:00		07:00	11:00	11:00	08:00	07:00	06:00	04:00	00.00				08.00	10:00	08:00		
PM																	
Peak 14:00 14:00 12:00 13:00 18:00 21:00 23:00 15:00 17:00 13:00 13:00 15:00 12:00 12:00		35	52	118	198	107	38	6	2				1	3	466		
Peak		14:00	14:00	12:00	13:00	18:00	21:00	23:00	15:00	17:00	13:00	13:00	15:00	12:00	12:00		
Voi. 45 63 146 168 93 21 6 3 1 1 1 1 2 440																	
	Vol.	45	63	146	168	93	21	6	3	1	1	1	1	2	440		

 Stats
 15th Percentile :
 18 MPH

 50th Percentile :
 25 MPH

 85th Percentile :
 31 MPH

85th Percentile: 31 MPH 95th Percentile: 35 MPH

 Mean Speed(Average):
 25 MPH

 10 MPH Pace Speed:
 20-29 MPH

 Number in Pace:
 3289

 Percent in Pace:
 56.8%

 Number of Vehicles > 30 MPH:
 1330

 Percent of Vehicles > 30 MPH:
 23.0%



City, State: Needham, MA Client: GPI/N.Rogers

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 A Speed Site Code: MAX2017099.1

	1714.1109	JCIO					Email: da	tarequests@pd	illc.com				C	nic oodc.	. IVI/OXZU	717033.1
NB Start		15	20	25	30	35	40	45	50	55	60	65	70	Total	85th	
	1									59				Total		Ave
Time	14	19	24	29	34	39	44	49	54	59	64	69	9999		% ile	Speed
11/29/	•	•		•	•	•		•	•	•	•	•	•	4.4	00	0.5
18	0	0	1	0	3	6	1	0	0	0	0	0	0	11	38	35
01:00	0	0	0	0	3	0	1	0	0	0	0	0	0	4	41	35
02:00	0	0	0	3	3	0	0	0	0	0	0	0	0	6	32	30
03:00	0	0	2	2	2	2	0	0	0	0	0	0	0	8	36	29
04:00	0	0	0	2	4	7	0	1	0	0	0	0	0	14	38	35
05:00	0	1	6	14	30	18	5	0	0	0	0	0	0	74	37	32
06:00	2	2	19	40	74	40	7	0	0	0	0	0	0	184	36	31
07:00	38	23	83	166	70	36	0	0	0	0	1	1	2	420	32	26
08:00	14	34	97	196	146	30	0	0	2	0	0	0	0	519	32	27
09:00	18	23	119	174	85	13	2	1	0	0	0	0	0	435	31	26
10:00	18	49	113	153	93	18	1	0	0	0	0	0	0	445	31	25
11:00	26	62	109	126	61	13	0	0	0	0	2	0	1	400	30	24
12 PM	34	48	129	156	88	18	1	1	1	0	0	0	0	476	31	25
13:00	21	48	113	157	87	8	0	0	0	0	0	0	1	435	30	25
14:00	42	44	87	119	58	10	0	0	0	0	0	0	2	362	30	23
15:00	53	61	107	131	43	10	1	0	0	0	0	0	1	407	28	22
16:00	28	52	131	125	45	5	2	0	0	0	0	0	3	391	28	23
17:00	47	50	120	76	43	4	1	0	0	0	0	0	1	342	28	22
18:00	18	39	75	122	60	9	0	0	0	0	0	1	3	327	30	25
19:00	5	22	42	85	73	22	1	0	0	0	0	0	0	250	33	27
20:00	4	12	31	66	78	20	6	0	0	0	0	0	0	217	33	29
21:00	1	4	16	37	80	22	2	1	0	0	0	0	0	163	34	30
22:00	2	1	3	13	23	12	8	0	0	0	0	0	0	62	38	32
23:00	0	0	3	8	21	7	3	1	0	0	0	0	0	43	37	32
Total	371	575	1406	1971	1273	330	42	5	3	0	3	2	14	5995		
%	6.2%	9.6%	23.5%	32.9%	21.2%	5.5%	0.7%	0.1%	0.1%	0.0%	0.1%	0.0%	0.2%			
AM														00.00		
Peak	07:00	11:00	09:00	08:00	08:00	06:00	06:00	04:00	08:00		11:00	07:00	07:00	08:00		
Vol.	38	62	119	196	146	40	7	1	2		2	1	2	519		
PM	15:00	15.00	16:00	12.00	12:00	19:00	22:00	12:00	12:00			18:00	16:00	12:00		
Peak	15.00	15:00	16:00	13:00	12:00	19.00	22.00	12.00	12.00			10.00	10.00	12.00		
Vol.	53	61	131	157	88	22	8	1	1			1	3	476		

Stats

15th Percentile :18 MPH50th Percentile :25 MPH85th Percentile :31 MPH95th Percentile :35 MPH

 Mean Speed(Average):
 25 MPH

 10 MPH Pace Speed:
 20-29 MPH

 Number in Pace:
 3377

 Percent in Pace:
 56.3%

 Number of Vehicles > 30 MPH:
 1417

 Percent of Vehicles > 30 MPH:
 23.6%



City, State: Needham, MA Client: GPI/N.Rogers

SB

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 A Speed Site Code: MAX2017099.1

Start	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th	Ave
Time	14	19	24	29	34	39	44	49	54	59	64	69	9999		% ile	Speed
11/28/																
18	0	0	0	1	7	6	4	0	0	0	0	0	0	18	40	36
01:00	0	0	0	0	2	5	0	0	0	0	0	0	0	7	37	36
02:00	0	0	0	1	2	1	0	0	0	0	0	0	0	4	36	32
03:00	0	0	0	0	5	1	2	0	0	0	0	0	0	8	41	35
04:00	0	0	2	2	2	6	2	0	0	0	0	0	0	14	38	33
05:00	0	0	8	11	36	7	0	0	0	0	0	0	0	62	33	30
06:00	1	3	24	47	79	18	4	0	0	0	0	0	0	176	33	30
07:00	9	43	154	124	54	9	2	1	0	0	0	0	0	396	29	25
08:00	5	29	114	126	65	6	0	0	0	0	0	0	0	345	30	25
09:00	18	58	115	116	64	5	0	0	0	0	0	0	0	376	29	24
10:00	17	64	103	163	50	3	0	0	0	0	0	0	0	400	28	24
11:00	10	80	153	126	46	3	1	0	0	0	0	0	0	419	28	23
12 PM	36	89	159	124	44	1	1	0	0	0	0	0	0	454	28	22
13:00	14	104	151	138	51	7	1	0	0	0	0	0	0	466	28	23
14:00	32	108	243	149	29	1	0	0	0	0	0	0	0	562	27	22
15:00	20	108	183	143	31	2	0	0	0	0	0	0	0	487	27	22
16:00	21	132	234	140	27	3	0	0	0	0	0	0	0	557	27	22
17:00	25	105	211	205	41	6	0	0	0	0	0	0	0	593	27	23
18:00	4	104	156	203	86	6	0	0	0	0	0	0	0	559	29	24
19:00	2	31	42	99	112	27	0	0	0	0	0	0	0	313	33	28
20:00	1	25	8	64	74	15	0	0	0	0	0	0	0	187	33	28
21:00	0	20	13	41	50	15	2	0	0	0	0	0	0	141	33	28
22:00	0	7	2	8	27	21	3	0	0	0	0	0	0	68	37	32
23:00	0	0	0	5	17	9	1	0	0	0	0	0	0	32	36	33
Total	215	1110	2075	2036	1001	183	23	1	0	0	0	0	0	6644		
%	3.2%	16.7%	31.2%	30.6%	15.1%	2.8%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM	09:00	11:00	07:00	10:00	06:00	06:00	00:00	07:00						11:00		
Peak																
Vol.	18	80	154	163	79	18	4	1						419		
PM	12:00	16:00	14:00	17:00	19:00	19:00	22:00							17:00		
Peak																
Vol.	36	132	243	205	112	27	3			-			-	593		

Stats

15th Percentile: 17 MPH 50th Percentile: 23 MPH 85th Percentile: 30 MPH 95th Percentile: 33 MPH

 Mean Speed(Average):
 24 MPH

 10 MPH Pace Speed:
 20-29 MPH

 Number in Pace:
 4111

 Percent in Pace:
 61.9%

 Number of Vehicles > 30 MPH:
 1008

 Percent of Vehicles > 30 MPH:
 15.2%



City, State: Needham, MA Client: GPI/N.Rogers

SB

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 A Speed Site Code: MAX2017099.1

~-																
Start	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th	Ave
Time	14	19	24	29	34	39	44	49	54	59	64	69	9999		% ile	Speed
11/29/																
18	0	1	1	4	1	8	3	0	0	0	0	0	0	18	39	33
01:00	0	0	0	0	0	2	0	0	0	0	0	0	0	2	38	37
02:00	0	0	0	1	2	2	2	0	0	0	0	0	0	7	41	36
03:00	0	0	1	1	0	3	0	0	0	0	0	0	0	5	37	32
04:00	0	0	0	3	4	5	3	0	0	0	0	0	0	15	40	35
05:00	0	1	1	21	22	12	1	0	0	0	0	0	0	58	35	31
06:00	1	7	18	42	74	35	5	0	0	0	0	0	0	182	35	30
07:00	21	48	147	126	61	14	0	0	0	0	0	0	0	417	30	24
08:00	5	25	75	151	86	28	3	0	0	0	0	0	0	373	32	27
09:00	9	51	134	146	68	6	0	0	0	0	0	0	0	414	29	25
10:00	14	46	110	188	49	2	1	0	0	0	0	0	0	410	28	25
11:00	19	103	150	164	30	5	0	0	0	0	0	0	0	471	27	23
12 PM	18	73	162	173	66	12	4	0	0	0	0	0	0	508	29	24
13:00	13	87	180	172	52	7	1	0	0	0	0	0	0	512	28	24
14:00	26	78	144	133	46	1	0	0	0	0	0	0	0	428	28	23
15:00	37	117	194	108	32	1	0	0	0	0	0	0	0	489	27	21
16:00	53	162	264	138	28	4	0	0	0	0	0	0	0	649	26	21
17:00	20	125	247	128	22	1	0	0	0	0	0	0	0	543	26	22
18:00	6	87	196	181	55	5	0	0	0	0	0	0	0	530	28	24
19:00	3	31	34	122	119	22	2	0	0	0	0	0	0	333	32	28
20:00	2	22	14	47	93	31	0	1	0	0	0	0	0	210	34	29
21:00	1	15	12	40	64	16	3	0	0	0	0	0	0	151	33	29
22:00	0	4	3	12	25	14	2	1	1	0	0	0	0	62	37	32
23:00	0	1	1	10	19	15	2	0	0	0	0	0	0	48	37	32
Total	248	1084	2088	2111	1018	251	32	2	1	0	0	0	0	6835		
%	3.6%	15.9%	30.5%	30.9%	14.9%	3.7%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM	07:00	11:00	11:00	10:00	08:00	06:00	06:00							11:00		
Peak																
Vol.	21	103	150	188	86	35	5							471		
PM	16:00	16:00	16:00	18:00	19:00	20:00	12:00	20:00	22:00					16:00		
Peak								_0.00								
Vol.	53	162	264	181	119	31	4	1	1	-				649		

Stats

15th Percentile: 17 MPH 50th Percentile: 23 MPH 85th Percentile: 30 MPH 95th Percentile: 33 MPH

Mean Speed(Average): 24 MPH
10 MPH Pace Speed: 20-29 MPH
Number in Pace: 4199
Percent in Pace: 61.4%
Number of Vehicles > 30 MPH: 1100
Percent of Vehicles > 30 MPH: 16.1%



Highland Avenue south of Rosemary Street (between stairways) City, State: Needham, MA Client: GPI/N.Rogers

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

186604 A Volume Site Code: MAX2017099.1

Start		NB				SB		,		Comb	in	,	11/28/20	
Time	Λ Μ	110	P.M.		A.M.	OB	P.M.		A 1.4	ed	P.M.		18 Wed	
12:00	A.M. 8		119		6		130		A.M. 14		249		vveu	
12:15	2		109		5		107		7		216			
12:30	7		112		3		116		10		228			
12:45	2	19	100	440	4	18	101	454	6	37	201	894		
01:00	3	19	105	440	1	10	110	404	4	31	215	094		
01:15	3													
01:30	3		125 116		4		94 113		7		219 229			
01:45	1	10		440	2	7		466	5	17		006		
		10	94 94	440	0	7	149	466	1	17	243	906		
02:00	1				1		118		2		212			
02:15	0		89		1		128		1		217			
02:30	1	1	89	250	2	4	159	E62	3	0	248	020		
02:45	2 2	4	86	358	0	4	157	562	2 2	8	243	920		
03:00	2		103		0		138		2		241			
03:15	1		118		1		122		2		240			
03:30	2 3	•	91	444	5	•	94	407	7	40	185	004		
03:45	3	8	102	414	2	8	133	487	5	16	235	901		
04:00	4		100		3		150		7		250			
04:15	7		98		1		125		8		223			
04:30	2	00	67	007	7	4.4	130		9	0.4	197	004		
04:45	7	20	102	367	3	14	152	557	10	34	254	924		
05:00	6		93		5		147		11		240			
05:15	18		74		18		128		36		202			
05:30	19		81		20		145		39		226			
05:45	29	72	77	325	19	62	173	593	48	134	250	918		
06:00	23		93		39		152		62		245			
06:15	46		88		33		164		79		252			
06:30	55		76		50		118		105		194			
06:45	72	196	77	334	54	176	125	559	126	372	202	893		
07:00	107		60		72		91		179		151			
07:15	80		67		91		106		171		173			
07:30	134		45		141		59		275		104			
07:45	107	428	60	232	92	396	57	313	199	824	117	545		
08:00	116		66		107		47		223		113			
08:15	109		50		72		50		181		100			
08:30	126		42		99		53		225		95			
08:45	115	466	34	192	67	345	37	187	182	811	71	379		
09:00	120		47		95		54		215		101			
09:15	135		34		87		38		222		72			
09:30	102		37		97		23		199		60			
09:45	99	456	19	137	97	376	26	141	196	832	45	278		
10:00	79		19		76		24		155		43			
10:15	108		13		105		16		213		29			
10:30	114		12		104		17		218		29			
10:45	103	404	10	54	115	400	11	68	218	804	21	122		
11:00	94		8		98		13		192		21			
11:15	98		11		83		11		181		22			
11:30	86		11		88		4		174		15			
11:45	93	371	9	39	150	419	4	32	243	790	13	71		
Total	2454		3332		2225		4419		4679		7751			
Percent	52.4%		43.0%		47.6%		57.0%							
Day Total		578	36			664	14			124	30			
Peak	08:30	-	00:45	-	07:15	-	05:30	-	07:30	-	05:30	-	-	-
Vol.	496	-	446	-	431	-	634	-	878	-	973	-	-	-
P.H.F.	0.919		0.892		0.764		0.916		0.798		0.958			



Highland Avenue south of Rosemary Street (between stairways) City, State: Needham, MA Client: GPI/N.Rogers

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 A Volume Site Code: MAX2017099.1

Start		NB				SB				Comb	in		11/29/20	
	Λ Μ	IND	DM		Λ Μ	OB	P.M.		A.M.	ed	DM		18 Thu	
Time 12:00	A.M. 3		P.M. 109		7 A.M.		138		10		P.M. 247		inu	
12:15	4		116		4		123		8		239			
12:30	2		118		4		126		6		244			
12:45	2	11	133	476	3	18	121	508	5	29	254	984		
01:00	3		108	470	0	10	128	300	3	23	236	304		
01:15	0		122		1		122		1		244			
01:30	0		119		Ö		126		Ö		245			
01:45	1	4	86	435	1	2	136	512	2	6	222	947		
02:00	2	7	111	400	2	_	122	312	4	U	233	541		
02:15	2		105		3		138		5		243			
02:30	1		88		1		102		2		190			
02:45	1	6	58	362	1	7	66	428	2	13	124	790		
03:00	Ö	O	105	302	Ö	1	121	720	0	10	226	750		
03:15	3		97		1		147		4		244			
03:30	4		100		1		118		5		218			
03:45	1	8	105	407	3	5	103	489	4	13	208	896		
04:00	2	U	103	707	4	3	171	703	6	13	272	030		
04:00	3		117		6		171		9		290			
04:13	4		85		4		149		8		234			
04:45	5	14	88	391	1	15	156	649	6	29	244	1040		
05:00	4	14	65	391	7	13	116	049	11	29	181	1040		
05:15	22		97 74		13 15		153		35 35		250 163			
05:30 05:45	20	74	74 100	342	15	F0	89	543	35	400	163	005		
	28	74	106	342	23	58	185	543	51 63	132	291	885		
06:00	26		87		37		141				228			
06:15	48		83		38		130		86		213			
06:30	40	101	80 77	227	39	400	154	<b>520</b>	79	200	234	0.57		
06:45	70	184	77 74	327	68	182	105	530	138	366	182	857		
07:00	100		71		80		90		180		161			
07:15	96		52		100		84		196		136			
07:30	122	400	71 50	050	131	447	79	200	253	007	150	<b>500</b>		
07:45	102	420	56	250	106	417	80	333	208	837	136	583		
08:00	155		55		98		43		253		98			
08:15	132		64		104		59		236		123			
08:30	114	<b>540</b>	54	047	77	070	60	040	191	000	114	407		
08:45	118	519	44	217	94	373	48	210	212	892	92	427		
09:00	103		48		97		48		200		96			
09:15	110		43		110		41		220		84			
09:30	116	405	48	400	113	444	42	454	229	0.40	90	044		
09:45	106	435	24	163	94	414	20	151	200	849	44	314		
10:00	108		25		93		20		201		45 25			
10:15	96 07		9		88 105		16		184		25			
10:30	97	445	13	00	105	440	14	00	202	055	27	404		
10:45	144	445	15	62	124	410	12	62	268	855	27	124		
11:00	113		14		130		16		243		30			
11:15	92		16		96		18		188		34			
11:30	98	400	8	40	143	474	7	40	241	074	15	04		
11:45	97	400	5	43	102	471	7	48	199	871	12	91		
Total	2520		3475		2372		4463		4892		7938			
Percent	51.5%		43.8%		48.5%		56.2%							
Day Total		599	95			683	35			128	30			
Peak	08:00		00:45		10:45		04:00		07:30		04:00			
Vol.	519	-	00:45 482	-	493	-	649	-	950	-	1040	-	-	-
voi. P.H.F.	0.837	-	0.906	-	0.862	-	0.938	-	0.939	-	0.897	-	-	-
г.п.г.	0.037		0.900		0.002		0.830		0.939		0.097			



642 Webster Street south of Brookline Street City, State: Needham, MA Client: GPI/N.Rogers SB

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 B Class Site Code: MAX2017099.1

Start Cars & 2 Axle 2 Axle 3 Axle 4 Axle <5 Axl 5 Axle >6 AxI <6 AxI 6 Axle >6 AxI **Bikes** Double Time **Trailers** Long **Buses** 6 Tire Single Single Double Double Multi Multi Multi Total 11/28/1 01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00 12 PM 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00 Total Percent 90.1% 0.7% 0.5% 7.9% 0.4% 0.2% 0.0% 0.2% 0.0% 0.0% 0.0% 0.0% 0.0% AM 07:00 11:00 10:00 07:00 09:00 07:00 06:00 11:00 Peak Vol. PM 16:00 17:00 14:00 15:00 15:00 15:00 12:00 17:00 Peak Vol.



642 Webster Street south of Brookline Street City, State: Needham, MA Client: GPI/N.Rogers SB

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 B Class Site Code: MAX2017099.1

<u> </u>														
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 AxI	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
11/29/1														
8	0	14	0	0	0	0	0	0	0	0	0	0	0	14
01:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
02:00	0	6	0	0	0	0	0	0	0	0	0	0	0	6
03:00	0	3	0	0	1	0	0	0	0	0	0	0	0	4
04:00	0	7	1	0	0	0	0	0	0	0	0	0	0	8
05:00	0	25	3	0	0	0	0	0	0	0	0	0	0	28
06:00	0	73	14	1	2	0	0	0	0	0	0	0	0	90
07:00	7	225	18	2	0	3	2	0	1	0	0	0	0	258
08:00	1	215	25	1	4	1	0	1	0	0	0	0	0	248
09:00	0	239	34	0	7	2	0	1	0	0	0	0	0	283
10:00	0	238	32	0	7	0	0	0	0	0	0	0	0	277
11:00	1	282	38	1	4	0	0	0	0	0	0	0	0	326
12 PM	3	295	33	1	4	0	0	1	0	0	0	0	0	337
13:00	1	278	42	0	6	1	1	1	0	0	0	0	0	330
14:00	4	356	43	1	3	3	0	1	0	0	0	0	0	411
15:00	4	451	46	1	5	1	0	0	0	0	0	0	0	508
16:00	7	522	34	0	4	0	0	0	1	0	0	0	0	568
17:00	3	659	23	0	1	1	0	0	1	0	0	0	0	688
18:00	2	529	23	0	3	0	0	0	0	0	0	0	0	557
19:00	0	289	9	0	1	0	0	0	0	0	0	0	0	299
20:00	3	185	9	0	0	1	0	0	0	0	0	0	0	198
21:00	0	134	1	0	0	0	0	0	0	0	0	0	0	135
22:00	0	71	2	0	0	0	0	0	0	0	0	0	0	73
23:00	0	34	2	0	0	0	0	0	0	0	0	0	0	36
Total	36	5133	432	8	52	13	3	5	3	0	0	0	0	5685
Percent	0.6%	90.3%	7.6%	0.1%	0.9%	0.2%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	
AM	07:00	11:00	11:00	07:00	09:00	07:00	07:00	08:00	07:00					11:00
Peak	07.00			07.00	03.00	07.00	07.00	00.00	07.00					
Vol.	7	282	38	2	7	3	2	1	1					326
PM	16:00	17:00	15:00	12:00	13:00	14:00	13:00	12:00	16:00					17:00
Peak				12.00				12.00	10.00					
Vol.	7	659	46	1	6	3	1	1	1					688



642 Webster Street south of Brookline Street City, State: Needham, MA Client: GPI/N.Rogers

Vol.

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 B Class Site Code: MAX2017099.1

NB Start Cars & 2 Axle 2 Axle 3 Axle 4 Axle <5 Axl 5 Axle >6 AxI <6 AxI 6 Axle >6 AxI **Bikes** Double Time **Trailers** Long **Buses** 6 Tire Single Single Double Double Multi Multi Multi Total 11/28/1 01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00 12 PM 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00 Total Percent 89.4% 8.3% 0.0% 0.0% 0.0% 0.4% 0.4% 1.1% 0.2% 0.0% 0.2% 0.0% 0.0% AM 07:00 08:00 08:00 07:00 09:00 10:00 07:00 07:00 08:00 Peak Vol. PM 15:00 15:00 13:00 14:00 12:00 15:00 14:00 15:00 Peak



642 Webster Street south of Brookline Street City, State: Needham, MA Client: GPI/N.Rogers NB

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

110														
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
11/29/1														
8	0	5	1	0	1	0	0	0	0	0	0	0	0	7
01:00	0	3	1	0	0	0	0	0	0	0	0	0	0	4
02:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
03:00	0	4	0	0	0	0	0	0	0	0	0	0	0	4
04:00	0	10	2	0	1	0	0	0	0	0	0	0	0	13
05:00	0	63	8	0	0	0	0	0	0	0	0	0	0	71
06:00	0	194	17	1	3	2	0	0	0	0	0	0	0	217
07:00	5	295	30	5	5	1	0	3	0	0	0	0	0	344
08:00	2	622	47	0	8	0	0	1	0	0	0	0	0	680
09:00	0	400	56	3	7	4	0	2	0	0	0	0	0	472
10:00	0	269	43	1	12	0	0	4	1	0	0	0	0	330
11:00	1	287	38	1	8	3	0	0	0	0	0	0	0	338
12 PM	1	296	39	1	8	0	0	0	0	0	0	0	0	345
13:00	0	309	39	1	6	0	0	1	0	0	0	0	0	356
14:00	1	283	41	6	4	1	0	1	0	0	0	0	0	337
15:00	1	391	49	2	1	0	0	1	0	0	0	0	0	445
16:00	4	364	28	0	3	1	0	0	0	0	0	0	0	400
17:00	1	411	23	0	4	1	0	0	0	0	0	0	0	440
18:00	1	333	16	0	1	0	0	0	0	0	0	0	0	351
19:00	0	252	8	0	0	0	0	0	0	0	0	0	0	260
20:00	1	192	9	0	1	0	0	0	0	0	0	0	0	203
21:00	0	103	4	0	0	0	0	0	0	0	0	0	0	107
22:00	0	39	5	0	0	0	0	0	0	0	0	0	0	44
23:00	0	23	1	0	0	0	0	0	0	0	0	0	0	24
Total	18	5150	505	21	73	13	0	13	1	0	0	0	0	5794
Percent	0.3%	88.9%	8.7%	0.4%	1.3%	0.2%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	
AM	07:00	08:00	09:00	07:00	10:00	09:00		10:00	10:00					08:00
Peak	07.00			07.00		03.00		10.00	10.00					
Vol.	5	622	56	5	12	4		4	1					680
PM Peak	16:00	17:00	15:00	14:00	12:00	14:00		13:00						15:00
Vol.	4	411	49	6	8	1		1						445



642 Webster Street south of Brookline Street City, State: Needham, MA Client: GPI/N.Rogers SB

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 B Speed Site Code: MAX2017099.1

Start																	
11/28/ 18 0 0 0 1 3 3 4 3 0 0 0 0 0 0 0 0 0 11 36 31  01:00 0 0 0 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0		1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th	
18		14	19	24	29	34	39	44	49	54	59	64	69	9999		% ile	Speed
O1:00	11/28/																
O2:00		0	0	1		4	3	0	0	0	0	0	0	0			
03:00   0   0   0   0   0   2   2   1   0   0   0   0   0   0   5   40   36		0	0	0	2	0		0	0	0	0	0	0	0	2		
04:00		0	0	0	0	1		0	0	0	0	0	0	0	3	37	
05:00		0	0	0	0	2	2	1	0	0	0	0	0	0	5	40	36
O6:00   O6		0	0	0	3	1	1	0	1	0	0	0	0	0			33
07:00         96         37         69         65         21         2         0         0         1         0         0         0         1         292         27         19           08:00         17         2         21         104         103         21         2         0         1         1         0         0         0         0         303         33         28           10:00         1         4         23         114         93         19         1         0         0         0         0         0         303         33         29           11:00         2         3         24         166         102         20         0         0         0         0         0         317         32         29           12:PM         3         9         30         170         125         14         1         0         0         0         0         0         354         32         28           13:00         3         4         29         142         112         21         0         0         0         0         0         311         32         29	05:00	0	0	1	9	9	3	0	0	0	0	0	0	0	22	33	30
08:00 17	06:00	0	1	4	40	47		0	0	0	0	0	0	2	99	32	30
09:00	07:00	96	37	69	65	21	2	0	0	1	0	0	0	1	292	27	19
10:00	08:00	17	2	21	104	103	21	2	0	1	1	0	0	2	274	33	28
11:00   2   3   24   166   102   20   0   0   0   0   0   0   0   317   32   29		4	2	29	114			3	1	0	0	0	0	0	303	33	
12 PM	10:00	1	4	23	114	93	19	1	0	0	0	0	0	0	255	33	29
13:00   3	11:00	2	3	24	166	102	20	0	0	0	0	0	0	0	317	32	29
14:00   50   56   80   164   63   6   2   0   0   0   0   0   0   421   29   23	12 PM	3	9	30	170	125	14	1	0	0	0	0	0	2	354	32	28
15:00	13:00	3	4	29	142	112	21	0	0	0	0	0	0	0	311	32	29
16:00         26         22         151         273         52         2         0         0         0         1         0         0         527         28         25           17:00         16         36         221         314         60         1         0         0         0         1         0         3         652         28         25           18:00         6         13         127         297         88         7         0         0         0         0         0         0         538         29         26           19:00         1         2         34         192         68         8         1         0         0         0         0         0         538         29         26           19:00         1         2         34         192         68         8         1         0         0         0         0         0         0         307         31         28           20:00         1         0         20         11         61         7         0         0         0         0         0         0         0         0         0         0	14:00	50	56	80	164	63	6	2	0	0	0	0	0	0	421	29	23
17:00         16         36         221         314         60         1         0         0         0         0         1         0         3         652         28         25           18:00         6         13         127         297         88         7         0 </td <td>15:00</td> <td>42</td> <td>29</td> <td>90</td> <td>218</td> <td>72</td> <td>1</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>454</td> <td>29</td> <td>24</td>	15:00	42	29	90	218	72	1	2	0	0	0	0	0	0	454	29	24
18:00         6         13         127         297         88         7         0         0         0         0         0         0         538         29         26           19:00         1         2         34         192         68         8         1         0         0         0         0         0         1         307         31         28           20:00         1         0         20         111         61         7         0         0         0         0         0         0         200         32         28           21:00         0         0         10         42         34         8         0         0         0         0         0         0         94         33         29           22:00         0         0         0         2         24         31         3         1         0         0         0         0         0         94         33         29           23:00         0         0         3         3         12         4         1         0         0         0         0         0         0         0         0         0 <td>16:00</td> <td>26</td> <td>22</td> <td>151</td> <td>273</td> <td>52</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>527</td> <td>28</td> <td>25</td>	16:00	26	22	151	273	52	2	0	0	0	1	0	0	0	527	28	25
19:00	17:00	16	36	221	314	60	1	0	0	0	0	1	0	3	652	28	25
20:00         1         0         20         1111         61         7         0         0         0         0         0         0         0         200         32         28           21:00         0         0         0         10         42         34         8         0         0         0         0         0         94         33         29           22:00         0         0         0         2         24         31         3         1         0         0         0         0         0         0         61         33         30           23:00         0         0         0         3         3         12         4         1         0         0         0         0         0         61         33         30           Total         268         220         969         2570         1294         177         15         2         2         2         1         0         11         5531           %         4.8%         4.0%         17.5%         46.5%         23.4%         3.2%         0.3%         0.0%         0.0%         0.0%         0.0%         0.0%         0.	18:00	6	13	127	297	88	7	0	0	0	0	0	0	0	538	29	26
21:00         0         0         10         42         34         8         0         0         0         0         0         0         94         33         29           22:00         0         0         0         2         24         31         3         1         0         0         0         0         0         0         61         33         30           23:00         0         0         0         3         3         12         4         1         0         0         0         0         0         0         23         35         31           Total         268         220         969         2570         1294         177         15         2         2         2         1         0         11         5531           %         4.8%         4.0%         17.5%         46.5%         23.4%         3.2%         0.3%         0.0%         0.0%         0.0%         0.0%         0.2%           Peak         07:00         07:00         07:00         11:00         09:00         08:00         09:00         04:00         07:00         08:00         06:00         11:00           Vo	19:00	1	2	34	192	68	8	1	0	0	0	0	0	1	307	31	28
22:00         0         0         2         24         31         3         1         0         0         0         0         0         61         33         30           23:00         0         0         0         0         0         0         0         0         23         35         31           Total         268         220         969         2570         1294         177         15         2         2         2         2         1         0         11         5531           %         4.8%         4.0%         17.5%         46.5%         23.4%         3.2%         0.3%         0.0%         0.0%         0.0%         0.0%         0.0%         0.2%           AM Peak         07:00         07:00         07:00         11:00         09:00         08:00         09:00         04:00         07:00         08:00         06:00         11:00           Vol.         96         37         69         166         133         21         3         1         1         1         2         317           PM Peak         14:00         14:00         13:00         14:00         14:00         16:00         17		1	0	20	111	61	7	0	0	0	0	0	0	0	200		
23:00         0         0         3         3         12         4         1         0         0         0         0         0         23         35         31           Total         268         220         969         2570         1294         177         15         2         2         2         1         0         11         5531           %         4.8%         4.0%         17.5%         46.5%         23.4%         3.2%         0.3%         0.0%         0		0	0					0	0	0	0	0	0	0			
Total         268         220         969         2570         1294         177         15         2         2         2         1         0         11         5531           %         4.8%         4.0%         17.5%         46.5%         23.4%         3.2%         0.3%         0.0%         0.		0	0				3	1	0	0	0	0	0	0			
%         4.8%         4.0%         17.5%         46.5%         23.4%         3.2%         0.3%         0.0% <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1_</td><td></td><td></td><td></td><td>0</td><td></td><td></td><td></td><td>35</td><td>31</td></th<>								1_				0				35	31
AM Peak Vol.         96         37         69         166         133         21         3         1         1         1         2         317           PM Peak         14:00         14:00         17:00         17:00         13:00         14:00         14:00         17:00         17:00         17:00									_	_	_	1	-		5531		
Peak         07:00         07:00         07:00         07:00         08:00         09:00         04:00         07:00         08:00         06:00         11:00           Vol.         96         37         69         166         133         21         3         1         1         1         2         317           PM Peak         14:00         14:00         17:00         17:00         12:00         13:00         14:00         16:00         17:00         17:00         17:00		4.8%	4.0%	17.5%	46.5%	23.4%	3.2%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%			
Vol.         96         37         69         166         133         21         3         1         1         1         2         317           PM Peak         14:00         14:00         17:00         17:00         12:00         13:00         14:00         16:00         17:00         17:00         17:00		07:00	07:00	07:00	11:00	09:00	08:00	09:00	04:00	07:00	08:00			06:00	11:00		
PM											00.00						
Peak 14:00 14:00 17:00 17:00 12:00 13:00 14:00 16:00 17:00 17:00 17:00		96	37	69	166	133	21	3	1	1	1			2	317		
Реак		14:00	14:00	17:00	17:00	12:00	13:00	14:00			16:00	17:00		17:00	17:00		
Vol. 50 56 221 314 125 21 2 1 1 3 652																	
	Vol.	50	56	221	314	125	21	2			1_	1		3	652		

Stats

15th Percentile: 20 MPH 50th Percentile: 26 MPH 85th Percentile: 31 MPH 95th Percentile: 33 MPH

Mean Speed(Average): 26 MPH
10 MPH Pace Speed: 25-34 MPH
Number in Pace: 3864
Percent in Pace: 69.9%
Number of Vehicles > 30 MPH: 1245
Percent of Vehicles > 30 MPH: 22.5%



642 Webster Street south of Brookline Street City, State: Needham, MA Client: GPI/N.Rogers

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 B Speed Site Code: MAX2017099.1

Start	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th	Ave
Time	14	19	24	29	34	39	44	49	54	59	64	69	9999		% ile	Speed
11/29/																
18	0	0	0	7	5	1	1	0	0	0	0	0	0	14	33	31
01:00	0	0	0	0	3	0	0	0	0	0	0	0	0	3	33	32
02:00	0	0	1	3	1	1	0	0	0	0	0	0	0	6	34	29
03:00	0	0	0	2	2	0	0	0	0	0	0	0	0	4	32	30
04:00	1	0	0	4	3	0	0	0	0	0	0	0	0	8	32	26
05:00	0	0	2	10	12	4	0	0	0	0	0	0	0	28	33	30
06:00	0	2	6	44	33	5	0	0	0	0	0	0	0	90	32	29
07:00	98	37	41	56	26	0	0	0	0	0	0	0	0	258	27	18
08:00	23	14	19	84	87	20	0	0	0	0	0	0	1	248	33	27
09:00	7	13	21	100	122	18	1	0	0	0	0	0	1	283	33	29
10:00	2	8	22	119	104	21	1	0	0	0	0	0	0	277	33	29
11:00	2	4	16	146	138	19	0	0	0	0	0	0	1	326	32	29
12 PM	6	7	38	169	104	12	0	0	0	0	0	0	1	337	32	28
13:00	7	3	47	173	91	8	1	0	0	0	0	0	0	330	31	27
14:00	40	25	94	188	58	6	0	0	0	0	0	0	0	411	29	24
15:00	19	21	90	259	107	7	0	2	1	0	1	0	1	508	30	26
16:00	26	28	135	299	73	5	0	0	0	0	0	1	1	568	28	25
17:00	30	40	278	294	40	3	0	1	0	0	0	0	2	688	27	24
18:00	6	17	153	300	78	3	0	0	0	0	0	0	0	557	28	26
19:00	3	5	23	173	87	5	1	0	0	0	0	0	2	299	31	28
20:00	15	3	36	90	49	3	2	0	0	0	0	0	0	198	31	26
21:00	0	0	12	70	49	4	0	0	0	0	0	0	0	135	32	29
22:00	0	1	4	32	32	4	0	0	0	0	0	0	0	73	32	29
23:00	0	0	0	12	19	5	0	0	0	0	0	0	0	36	33	31_
Total	285	228	1038	2634	1323	154	7	3	1	0	1	1	10	5685		
%	5.0%	4.0%	18.3%	46.3%	23.3%	2.7%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.2%			
AM	07:00	07:00	07:00	11:00	11:00	10:00	00:00						08:00	11:00		
Peak																
Vol.	98	37	41	146	138	21	1						1	326		
PM	14:00	17:00	17:00	18:00	15:00	12:00	20:00	15:00	15:00		15:00	16:00	17:00	17:00		
Peak																
Vol.	40	40	278	300	107	12	2	2	1		1	1	2	688		

Stats

15th Percentile: 20 MPH 50th Percentile: 26 MPH 85th Percentile: 31 MPH 95th Percentile: 33 MPH

 Mean Speed(Average):
 26 MPH

 10 MPH Pace Speed:
 25-34 MPH

 Number in Pace:
 3957

 Percent in Pace:
 69.6%

 Number of Vehicles > 30 MPH:
 1235

 Percent of Vehicles > 30 MPH:
 21.7%



642 Webster Street south of Brookline Street City, State: Needham, MA Client: GPI/N.Rogers NB

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 B Speed Site Code: MAX2017099.1

IND																
Start	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th	Ave
Time	14	19	24	29	34	39	44	49	54	59	64	69	9999		% ile	Speed
11/28/																
18	0	1	1	0	1	1	0	0	0	0	0	0	0	4	36	27
01:00	0	0	0	2	2	0	0	0	0	0	0	0	0	4	32	30
02:00	0	0	0	0	1	0	1	0	0	0	0	0	0	2	42	37
03:00	0	0	1	0	1	1	0	0	0	0	0	0	0	3	36	30
04:00	0	0	1	2	11	4	3	0	0	0	0	0	0	21	38	33
05:00	0	1	5	8	40	17	1	0	0	0	0	0	0	72	36	32
06:00	1	1	8	97	123	20	0	0	0	0	0	0	0	250	33	30
07:00	15	93	140	91	61	10	1	0	0	0	0	0	0	411	29	23
08:00	0	4	67	318	281	28	2	0	0	0	0	0	0	700	32	29
09:00	0	3	22	143	225	44	2	0	0	0	0	0	0	439	33	30
10:00	0	3	40	127	155	22	0	0	0	0	0	0	0	347	33	29
11:00	0	9	17	135	133	14	0	0	0	0	0	0	0	308	32	29
12 PM	3	5	34	146	122	21	0	0	0	0	0	0	0	331	32	29
13:00	1	3	39	140	115	23	1	0	0	0	0	0	0	322	32	29
14:00	3	33	87	116	67	18	0	0	0	0	0	0	0	324	31	26
15:00	10	25	101	215	78	4	2	0	0	0	0	0	0	435	30	26
16:00	0	13	107	214	67	7	0	0	0	0	0	0	0	408	29	26
17:00	4	5	118	221	52	5	0	0	0	0	0	0	0	405	28	26
18:00	1	10	45	177	83	7	0	0	0	0	0	0	0	323	31	27
19:00	0	1	28	136	82	15	0	1	0	0	0	0	0	263	32	29
20:00	0	7	22	77	70	7	0	0	0	0	0	0	0	183	32	28
21:00	0	4	9	46	29	8	0	0	0	0	0	0	0	96	32	28
22:00	0	1	4	12	24	2	0	0	0	0	0	0	0	43	33	30
23:00	0	0	4	4	8	4	0	0	0	0	0	0	0	20	35	30
Total	38	222	900	2427	1831	282	13	1	0	0	0	0	0	5714		
%	0.7%	3.9%	15.8%	42.5%	32.0%	4.9%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM	07:00	07:00	07:00	08:00	08:00	09:00	04:00							08:00		
Peak																
Vol.	15	93	140	318	281	44	3							700		
PM	15:00	14:00	17:00	17:00	12:00	13:00	15:00	19:00						15:00		
Peak								10.00								
Vol.	10	33	118	221	122	23	2	1						435		

Stats

15th Percentile :22 MPH50th Percentile :27 MPH85th Percentile :32 MPH95th Percentile :34 MPH

 Mean Speed(Average):
 28 MPH

 10 MPH Pace Speed:
 25-34 MPH

 Number in Pace:
 4258

 Percent in Pace:
 74.5%

 Number of Vehicles > 30 MPH:
 1761

 Percent of Vehicles > 30 MPH:
 30.8%



642 Webster Street south of Brookline Street City, State: Needham, MA Client: GPI/N.Rogers NB

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 B Speed Site Code: MAX2017099.1

Start	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th	Ave
Time	14	19	24	29	34	39	44	49	54	59	64	69	9999		% ile	Speed
11/29/																
18	0	0	1	1	2	3	0	0	0	0	0	0	0	7	37	32
01:00	0	0	1	1	2	0	0	0	0	0	0	0	0	4	32	28
02:00	0	0	1	1	0	0	0	0	0	0	0	0	0	2	27	25
03:00	1	0	1	0	2	0	0	0	0	0	0	0	0	4	32	23
04:00	1	0	0	3	5	4	0	0	0	0	0	0	0	13	36	30
05:00	0	1	0	17	40	11	2	0	0	0	0	0	0	71	35	32
06:00	1	2	10	78	105	20	1	0	0	0	0	0	0	217	33	30
07:00	3	37	105	121	74	4	0	0	0	0	0	0	0	344	30	25
08:00	5	12	108	300	225	29	1	0	0	0	0	0	0	680	32	28
09:00	0	0	36	198	197	39	2	0	0	0	0	0	0	472	33	30
10:00	0	0	20	143	141	26	0	0	0	0	0	0	0	330	33	30
11:00	0	5	33	126	147	26	1	0	0	0	0	0	0	338	33	29
12 PM	2	7	31	168	125	11	1	0	0	0	0	0	0	345	32	28
13:00	1	7	41	145	138	22	2	0	0	0	0	0	0	356	32	29
14:00	7	22	96	123	80	8	1	0	0	0	0	0	0	337	31	26
15:00	1	25	117	220	76	6	0	0	0	0	0	0	0	445	30	26
16:00	7	21	129	184	55	4	0	0	0	0	0	0	0	400	28	25
17:00	0	13	157	214	50	6	0	0	0	0	0	0	0	440	28	26
18:00	3	4	51	214	75	2	2	0	0	0	0	0	0	351	30	27
19:00	0	13	39	134	70	4	0	0	0	0	0	0	0	260	31	27
20:00	5	15	42	97	41	3	0	0	0	0	0	0	0	203	30	26
21:00	0	2	10	45	40	10	0	0	0	0	0	0	0	107	33	29
22:00	0	0	2	12	24	6	0	0	0	0	0	0	0	44	33	31
23:00	0	0	1 1	3	12	5	3	0	0	0	0	0	0	24	38	33
Total	37	186	1032	2548	1726	249	16	0	0	0	0	0	0	5794		
%	0.6%	3.2%	17.8%	44.0%	29.8%	4.3%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM	08:00	07:00	08:00	08:00	08:00	09:00	05:00							08:00		
Peak	_	07	400	000		00										
Vol.	5	37	108	300	225	39	2							680		
PM	14:00	15:00	17:00	15:00	13:00	13:00	23:00							15:00		
Peak Vol.	7	25	157	220	138	22	3							445		
VOI.		25	157	220	130		<u> </u>							445		

Stats

15th Percentile :22 MPH50th Percentile :27 MPH85th Percentile :32 MPH95th Percentile :33 MPH

 Mean Speed(Average):
 28 MPH

 10 MPH Pace Speed:
 25-34 MPH

 Number in Pace:
 4274

 Percent in Pace:
 73.8%

 Number of Vehicles > 30 MPH:
 1646

 Percent of Vehicles > 30 MPH:
 28.4%



642 Webster Street south of Brookline Street City, State: Needham, MA Client: GPI/N.Rogers

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 B Volume Site Code: MAX2017099.1

Start		SB	,		,	NB			,	Comb	in		11/28/20	
Time	A.M.	OB	P.M.		A.M.	140	P.M.		A.M.	ed	P.M.		18 Wed	
12:00	3		95		2		86		5		181		vveu	
12:15	1		74		0		71		1		145			
12:30	3		101		0		88		3		189			
12:45	4	11	84	354	2	4	86	331	6	15	170	685		
01:00	1		65	001	1	•	75	001	2		140	000		
01:15	0		82		0		91		0		173			
01:30	1		72		2		75		3		147			
01:45	0	2	92	311	1	4	81	322	1	6	173	633		
02:00	Ö	_	91	• • • •	0		67		0	·	158			
02:15	2		112		1		88		3		200			
02:30	0		93		1		66		1		159			
02:45	1	3	125	421	0	2	103	324	1	5	228	745		
03:00	1	Ŭ	108		1	_	97	0_ 1	2	Ŭ	205	7 10		
03:15	i 1		84		Ö		113		1		197			
03:30	2		125		0		122		2		247			
03:45	1	5	137	454	2	3	103	435	3	8	240	889		
04:00	1	Ü	146	101	3	Ū	115	400	4	· ·	261	000		
04:15	1		102		3		97		4		199			
04:30	1		129		2		82		3		211			
04:45	3	6	150	527	13	21	114	408	16	27	264	935		
05:00	0	J	177	021	10	- '	101	400	10		278	000		
05:15	8		172		12		96		20		268			
05:30	5		168		20		111		25		279			
05:45	9	22	135	652	30	72	97	405	39	94	232	1057		
06:00	14	22	154	032	31	12	95	403	45	34	249	1037		
06:15	20		158		47		81		67		239			
06:30	20		116		75				95					
06:45	45	99	110	538	97	250	66 81	323	142	349	182 191	861		
07:00	69	99	84	556	120	250	79	323	189	349	163	001		
07:00	96		86		121		79 59		217		145			
07:13	85		68		80		59		165		127			
07:30	42	292	69	307	90	411	66	263	132	703	135	570		
08:00	55	292	68	307	110	411	64	203	165	703	132	370		
08:15	70		54		188		47		258		101			
08:30	76		37		173		43		249		80			
08:45	73	274	41	200	229	700	29	183	302	974	70	383		
09:00	68	214	31	200	166	700	36	103	234	314	67	303		
09:15	79		26		102		28		181		54			
09:13	70		19		88		20		158		39			
09:45	86	303	18	94	83	439	12	96	169	742	30	190		
10:00	64	303	17	3 <del>-1</del>	86	700	13	30	150	172	30	130		
10:15	50		23		88		13		138		36			
10:13	70		23 11		78		8		148		19			
10:30	70 71	255	10	61	95	347	9	43	166	602	19	104		
11:00	64	200	12	01	69	J <del>4</del> /	7	40	133	002	19	104		
11:15	74		5		78		, 5		152		19			
11:30	74 70		3		83		4		153		7			
11:45	109	317	3	23	78	308	4	20	187	625	7	43		
Total	1589	317	3942		2561	300	3153		4150	023	7095			
Percent	38.3%		55.6%		61.7%		44.4%		4130		1093			
Day Total		553	31			57	14			112	45			
Peak	11:00	_	04:45	_	08:15	_	03:15	_	08:15	_	04:45	_	_	_
Vol.	317	_	667	_	756	_	453	_	1043	_	1089	_	_	_
P.H.F.	0.727	_	0.942	_	0.825		0.928	_	0.863	_	0.976	_	_	
	J., 21		5.57Z		0.020		0.020		0.000		0.070			



642 Webster Street south of Brookline Street City, State: Needham, MA Client: GPI/N.Rogers

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 B Volume Site Code: MAX2017099.1

Start		SB				NB				Comb	in		11/29/20	
Time	A.M.	02	P.M.		A.M.		P.M.		A.M.	ed	P.M.		18 Thu	
12:00	4		77		3		75		7		152		iiiu	
12:15	4		79		1		78		5		157			
12:30	5		88		3		89		8		177			
12:45	1	14	93	337	0	7	103	345	1	21	196	682		
01:00	2		74		1	-	98		3		172			
01:15	0		94		0		89		0		183			
01:30	1		77		Ö		88		1		165			
01:45	0	3	85	330	3	4	81	356	3	7	166	686		
02:00	2	-	102		Ō	•	70		2	•	172			
02:15	1		120		1		76		2		196			
02:30	3		85		0		97		3		182			
02:45	0	6	104	411	1	2	94	337	1	8	198	748		
03:00	0		119		0		114		0		233			
03:15	1		105		2		104		3		209			
03:30	2		166		0		112		2		278			
03:45	1	4	118	508	2	4	115	445	3	8	233	953		
04:00	1	-	138		2	•	96		3	_	234			
04:15	2		157		2		109		4		266			
04:30	2		123		1		83		3		206			
04:45	3	8	150	568	8	13	112	400	11	21	262	968		
05:00	5		173		9		117		14		290			
05:15	4		164		14		96		18		260			
05:30	6		186		18		122		24		308			
05:45	13	28	165	688	30	71	105	440	43	99	270	1128		
06:00	7		154		24		105		31		259			
06:15	16		139		38		99		54		238			
06:30	19		128		64		74		83		202			
06:45	48	90	136	557	91	217	73	351	139	307	209	908		
07:00	59		82		125		71		184		153			
07:15	80		68		97		57		177		125			
07:30	75		77		50		65		125		142			
07:45	44	258	72	299	72	344	67	260	116	602	139	559		
08:00	58		70		164		47		222		117			
08:15	53		47		173		56		226		103			
08:30	57		47		168		62		225		109			
08:45	80	248	34	198	175	680	38	203	255	928	72	401		
09:00	71		32		141		39		212		71			
09:15	73		34		122		32		195		66			
09:30	70		41		122		19		192		60			
09:45	69	283	28	135	87	472	17	107	156	755	45	242		
10:00	70		30		93		18		163		48			
10:15	69		17		75		15		144		32			
10:30	75		13		65		6		140		19			
10:45	63	277	13	73	97	330	5	44	160	607	18	117		
11:00	83		12		86		7		169		19			
11:15	73		9		85		9		158		18			
11:30	88		6		91		6		179		12			
11:45	82	326	9	36	76	338	2	24	158	664	11	60		
Total	1545		4140		2482		3312		4027		7452			
Percent	38.4%		55.6%		61.6%		44.4%							
Day Total		568	35			579	94			114	79			
<u>.</u> .	44.05		05.05		00.05		04.4=		00.05		05.05			
Peak	11:00	-	05:00	-	08:00	-	04:45	-	08:00	-	05:00	-	-	-
Vol.	326	-	688	-	680	-	447	-	928	-	1128	-	-	-
P.H.F.	0.926		0.925		0.971		0.916		0.910		0.916			



D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

186604 C CLASS Site Code: MAX2017099.1

~-														
Start	-	Cars &	2 Axle	•	2 Axle	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
11/28/1														
8	0	7	1	0	0	0	0	0	0	0	0	0	0	8
01:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
02:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
03:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
04:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
05:00	0	10	3	0	0	0	0	0	0	0	0	0	0	13
06:00	0	37	7	0	2	0	0	1	0	0	0	0	0	47
07:00	0	146	24	1	3	1	0	1	0	0	0	0	0	176
08:00	0	155	42	4	2	3	0	0	0	0	0	0	0	206
09:00	4	84	27	0	6	2	0	0	0	0	0	0	0	123
10:00	1	69	39	0	16	0	0	2	0	0	0	0	0	127
11:00	2	119	27	0	12	0	1	0	0	0	0	0	0	161
12 PM	0	124	27	2	12	1	0	0	0	0	0	0	0	166
13:00	1	131	23	1	14	1	0	3	0	0	0	0	0	174
14:00	2	207	56	2	15	1	0	0	0	0	0	0	0	283
15:00	0	348	97	1	26	2	0	2	1	0	0	0	0	477
16:00	3	541	125	3	25	2	0	0	1	0	0	0	0	700
17:00	3	626	90	0	16	1	0	2	0	0	0	0	0	738
18:00	2	269	39	0	5	0	0	0	0	0	0	0	0	315
19:00	0	113	24	0	3	0	0	0	0	0	0	0	0	140
20:00	1	84	8	0	2	0	0	0	0	0	0	0	0	95
21:00	0	47	12	0	0	0	0	0	0	0	0	0	0	59
22:00	0	39	3	0	0	0	0	0	0	0	0	0	0	42
23:00	0	16	4	0	0	0	0	0	0	0	0	0	0	20
Doroont	0.5%	78.0%	16.6%	0.20/	2.00/	0.20/	0.0%	0.20/	0.0%	0.0%	0.0%	0.0%	0.0%	
Percent AM	0.5%	70.070	10.0%	0.3%	3.9%	0.3%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	
Peak	09:00	08:00	08:00	08:00	10:00	08:00	11:00	10:00						08:00
Vol.	4	155	42	4	16	3	1	2						206
PM	16:00	17:00	16:00	16:00	15:00	15:00		13:00	15:00					17:00
Peak			125		26									
Vol.	3	626	125	3	∠0	2		3	1					738



D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

186604 C CLASS Site Code: MAX2017099.1

Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
11/29/1														
8	0	6	0	0	2	0	0	0	0	0	0	0	0	8 2
01:00	0	1	0	0	1	0	0	0	0	0	0	0	0	
02:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	1	0	0	1	1	0	0	0	0	0	0	0	3
05:00	0	9	2	0	0	0	0	0	0	0	0	0	0	11
06:00	0	42	11	0	5	0	0	0	0	0	0	0	0	58
07:00	0	132	27	1	7	0	0	0	0	0	0	0	0	167
08:00	5	138	61	2	5	2	0	0	0	0	0	0	0	213
09:00	0	101	33	1	15	2	0	1	0	0	0	0	0	153
10:00	2	82	27	2	9	0	0	0	0	0	0	0	0	122
11:00	2	93	26	0	7	1	0	0	0	0	0	0	0	129
12 PM	0	109	42	2	10	0	0	1	0	0	0	0	0	164
13:00	0	105	31	0	11	1	0	0	0	0	0	0	0	148
14:00	6	203	56	2	10	1	0	0	0	0	0	0	0	278
15:00	1	451	107	3	35	0	1	0	0	0	0	0	0	598
16:00	0	557	137	4	36	1	0	4	0	0	0	0	0	739
17:00	3	492	75	1	18	1	0	0	0	0	0	0	0	590
18:00	1	271	44	0	3	0	0	0	0	0	0	0	0	319
19:00	1	121	21	0	7	0	0	0	0	0	0	0	0	150
20:00	1	85	21	0	3	0	0	0	0	0	0	0	0	110
21:00	1	62	5	0	1	0	0	0	0	0	0	0	0	69
22:00	0	38	3	0	0	0	0	0	0	0	0	0	0	41
23:00	0	18	3	0	0	0	0	0	0	0	0	0	0	21
Percent	0.6%	76.2%	17.9%	0.4%	4.5%	0.2%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	
AM	08:00	08:00	08:00	08:00	09:00	08:00		09:00						08:00
Peak								00.00						
Vol.	5	138	61	2	15	2		1						213
PM Peak	14:00	16:00	16:00	16:00	16:00	13:00	15:00	16:00						16:00
Vol.	6	557	137	4	36	1	1	4						739



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 C CLASS Site Code: MAX2017099.1

INB														
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
11/28/1														
8	0	6	1	0	0	0	0	0	0	0	0	0	0	7
01:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
02:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
03:00	0	3	1	0	0	0	0	0	0	0	0	0	0	4
04:00	0	4	0	0	0	0	0	0	0	0	0	0	0	4
05:00	0	29	6	0	0	0	0	0	0	0	0	0	0	35
06:00	1	137	21	1	2	0	0	0	1	0	0	0	0	163
07:00	2	444	45	5	7	4	0	2	0	0	0	0	0	509
08:00	3	690	66	3	3	0	0	2	0	0	0	0	0	767
09:00	0	195	37	1	2	1	0	1	0	0	0	0	0	237
10:00	1	133	23	1	3	0	0	0	0	0	0	0	0	161
11:00	0	151	20	2	1	1	0	2	0	0	0	0	0	177
12 PM	0	146	16	0	6	2	0	0	0	0	0	0	0	170
13:00	0	149	19	0	2	0	1	0	0	0	0	0	0	171
14:00	2	170	19	5	1	0	0	0	0	0	0	0	0	197
15:00	2	163	19	3	2	1	0	1	0	0	0	0	0	191
16:00	1	177	11	0	2	0	0	1	0	0	0	0	0	192
17:00	4	169	3	0	1	0	0	0	0	0	0	0	0	177
18:00	1	178	4	0	0	0	0	0	0	0	0	0	0	183
19:00	2	86	8	0	2	0	0	0	0	0	0	0	0	98
20:00	1	71	8	0	0	0	0	0	0	0	0	0	0	80
21:00	1	46	2	0	0	0	0	0	0	0	0	0	0	49
22:00	0	27	1	0	0	0	0	0	0	0	0	0	0	28
23:00	0	11	1	0	0	0	0	0	0	0	0	0	0	12
Percent	0.6%	88.2%	9.2%	0.6%	0.9%	0.2%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	
AM	08:00	08:00	08:00	07:00	07:00	07:00		07:00	06:00					08:00
Peak Vol.	3	690	66	5	7	4		2	1					767
PM							40.00		•			-		
Peak	17:00	18:00	13:00	14:00	12:00	12:00	13:00	15:00						14:00
Vol.	4	178	19	5	6	2	1	1						197



900 Greendale Avenue north of Enslin Road City, State: Needham, MA Client: GPI/N.Rogers

Vol.

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 C CLASS Site Code: MAX2017099.1

NB Start Cars & 2 Axle 2 Axle 3 Axle 4 Axle <5 Axl 5 Axle >6 AxI <6 AxI 6 Axle >6 AxI **Bikes** Double Multi Time **Trailers** Long **Buses** 6 Tire Single Single Double Double Multi Multi Total 11/29/1 01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00 12 PM 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00 0.2% 0.2% 0.0% Percent 0.5% 88.0% 9.5% 0.5% 1.2% 0.0% 0.0% 0.0% 0.0% 0.0% AM 08:00 08:00 08:00 07:00 07:00 04:00 07:00 08:00 Peak Vol. PM 13:00 17:00 13:00 15:00 16:00 13:00 14:00 Peak



SB

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 C SPEED Site Code: MAX2017099.1

Start Total 85th Ave Time % ile Speed 11/28/ 01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00 12 PM 13:00 14:00 15:00 16:00 17:00 18:00 19:00 n 20:00 21:00 22:00 23:00 Total % 1.3% 0.6% 1.3% 5.0% 20.5% 39.0% 26.0% 5.1% 0.7% 0.1% 0.0% 0.0% 0.2% AM 07:00 07:00 09:00 07:00 09:00 07:00 08:00 08:00 08:00 07:00 09:00 07:00 08:00 Peak Vol. PM 20:00 14:00 16:00 12:00 18:00 12:00 18:00 17:00 17:00 17:00 16:00 12:00 17:00 Peak Vol. 

Stats

15th Percentile: 30 MPH 50th Percentile: 36 MPH 85th Percentile: 42 MPH 95th Percentile: 44 MPH

 Mean Speed(Average):
 37 MPH

 10 MPH Pace Speed:
 35-44 MPH

 Number in Pace:
 2655

 Percent in Pace:
 65.0%

 Number of Vehicles > 35 MPH:
 2589

 Percent of Vehicles > 35 MPH:
 63.4%



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 C SPEED Site Code: MAX2017099.1

Start Total 85th Ave Time % ile Speed 11/29/ 01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00 12 PM 13:00 n 14:00 15:00 16:00 17:00 18:00 19:00 20:00 n 21:00 22:00 23:00 Total 1.5% 0.7% 0.1% 0.0% 0.0% 1.2% 4.0% 16.5% 40.3% 29.6% 5.3% 0.5% 0.2% % AM 11:00 08:00 09:00 08:00 08:00 08:00 08:00 09:00 09:00 05:00 10:00 08:00 Peak Vol PM 14:00 15:00 19:00 16:00 17:00 16:00 15:00 15:00 15:00 15:00 15:00 15:00 15:00 16:00 Peak Vol. 

Stats

15th Percentile: 31 MPH 50th Percentile: 37 MPH 85th Percentile: 42 MPH 95th Percentile: 44 MPH

Mean Speed(Average): 37 MPH
10 MPH Pace Speed: 35-44 MPH
Number in Pace: 2867
Percent in Pace: 69.9%
Number of Vehicles > 35 MPH: 2787
Percent of Vehicles > 35 MPH: 68.0%



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 C SPEED Site Code: MAX2017099.1

Start	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th	Ave
Time	14	19	24	29	34	39	44	49	54	59	64	69	9999		% ile	Speed
11/28/																
18	0	0	0	0	1	4	2	0	0	0	0	0	0	7	41	38
01:00	0	0	0	0	0	0	1	0	0	0	0	0	0	1	43	42
02:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1	33	32
03:00	0	0	0	0	1	3	0	0	0	0	0	0	0	4	38	36
04:00	0	0	0	0	0	3	1	0	0	0	0	0	0	4	41	38
05:00	0	0	1	2	7	18	7	0	0	0	0	0	0	35	40	36
06:00	2	0	7	7	31	88	26	1	1	0	0	0	0	163	39	36
07:00	5	0	5	30	158	271	38	2	0	0	0	0	0	509	38	35
08:00	6	0	1	48	264	392	56	1	0	0	0	0	0	768	38	35
09:00	0	2	3	10	57	128	35	2	0	0	0	0	0	237	39	36
10:00	3	0	1	3	29	85	39	1	0	0	0	0	0	161	41	37
11:00	1	0	1	12	43	91	28	1	0	0	0	0	0	177	39	36
12 PM	2	0	0	7	51	85	23	3	0	0	0	0	0	171	39	36
13:00	0	0	1	17	48	80	25	0	0	0	0	0	0	171	38	35
14:00	2	0	2	22	62	79	29	1	0	0	0	0	0	197	39	35
15:00	2	0	1	14	48	106	19	1	0	0	0	0	0	191	38	35
16:00	2	0	6	21	77	75	11	0	0	0	0	0	0	192	37	33
17:00	1	0	1	16	84	67	8	0	0	0	0	0	0	177	37	34
18:00	2	1	0	10	77	80	10	3	0	0	0	0	0	183	38	34
19:00	5	1	0	8	37	39	9	0	0	0	0	0	0	99	38	33
20:00	2	0	0	6	22	42	7	1	0	0	0	0	0	80	38	35
21:00	1	0	0	9	12	18	8	1	0	0	0	0	0	49	40	34
22:00	0	0	1	3	10	12	2	0	0	0	0	0	0	28	38	34
23:00	0	0	0	1	3	4	3	1	0	0	0	0	0	12	42	37
Total	36	4	31	246	1123	1770	387	19	1	0	0	0	0	3617		
%	1.0%	0.1%	0.9%	6.8%	31.0%	48.9%	10.7%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM	08:00	09:00	06:00	08:00	08:00	08:00	08:00	07:00	06:00					08:00		
Peak																
Vol.	6	2	7	48	264	392	56	2	1					768		
PM	19:00	18:00	16:00	14:00	17:00	15:00	14:00	12:00						14:00		
Peak		10.00														
Vol.	5	1	6	22	84	106	29	3						197		

Stats

15th Percentile: 30 MPH 50th Percentile: 35 MPH 85th Percentile: 38 MPH 95th Percentile: 41 MPH

 Mean Speed(Average):
 35 MPH

 10 MPH Pace Speed:
 30-39 MPH

 Number in Pace:
 2893

 Percent in Pace:
 80.0%

 Number of Vehicles > 35 MPH:
 1823

 Percent of Vehicles > 35 MPH:
 50.4%



NB

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 C SPEED Site Code: MAX2017099.1

Start Total 85th Ave Time % ile Speed 11/29/ 01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00 12 PM 13:00 n 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00 n n n Total 0.8% 0.2% 1.0% 6.2% 10.3% 0.4% 0.0% 0.0% 0.0% 0.0% % 30.3% 50.7% 0.0% AM 08:00 06:00 07:00 08:00 08:00 08:00 08:00 09:00 08:00 Peak Vol. РМ 16:00 19:00 12:00 17:00 17:00 15:00 13:00 16:00 14:00 Peak Vol.

Stats

15th Percentile: 30 MPH 50th Percentile: 35 MPH 85th Percentile: 38 MPH 95th Percentile: 41 MPH

 Mean Speed(Average):
 35 MPH

 10 MPH Pace Speed:
 30-39 MPH

 Number in Pace:
 2730

 Percent in Pace:
 81.0%

 Number of Vehicles > 35 MPH:
 1729

 Percent of Vehicles > 35 MPH:
 51.3%



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 C VOLUME Site Code: MAX2017099.1

Start		SB				NB				Comb	in		11/28/20	
	A N4	30			A M	ND			A 14	ed	ВΜ		18 Wed	
Time 12:00	A.M. 3		P.M. 52		A.M. 3		P.M. 37		A.M.		P.M. 89		vved	
12:15	3		37		2		53		6 5		90			
12:30	1		38		1		39		2		77			
12:45		8		166		7		171	2	15		227		
01:00	1	0	39	166	1	,	42	171	2 2	15	81 70	337		
01:00	1		48		1		31		4		79			
01:15	1		38		0		52		1		90			
01:30	0	^	40	474	0		44	474	0		84	0.45		
01:45	1	3	48	174	0	1	44	171	1	4	92	345		
02:00	2		63 55		1		46		3		109			
02:15	0		55 70		0		38		0		93			
02:30	0	_	70	000	0		53	407	0	•	123	400		
02:45	0	2	95	283	0	1	60	197	0	3	155	480		
03:00	0		73		1		48		1		121			
03:15	1		79		0		52		1		131			
03:30	0		141		3		55		3	_	196			
03:45	0	1	186	479	0	4	36	191	0	5	222	670		
04:00	0		171		0		49		0		220			
04:15	0		186		1		56		1		242			
04:30	0	_	176		0		45		0		221			
04:45	2	2	167	700	3	4	42	192	5	6	209	892		
05:00	2		179		5		41		7		220			
05:15	3		168		4		44		7		212			
05:30	2		185		11		41		13		226			
05:45	6	13	206	738	15	35	51	177	21	48	257	915		
06:00	5		115		20		55		25		170			
06:15	8		84		23		45		31		129			
06:30	12		67		48		41		60		108			
06:45	22	47	50	316	72	163	42	183	94	210	92	499		
07:00	27		43		96		28		123		71			
07:15	42		41		100		20		142		61			
07:30	54		28		151		25		205		53			
07:45	53	176	28	140	162	509	26	99	215	685	54	239		
08:00	69		29		185		21		254		50			
08:15	62		31		149		26		211		57			
08:30	24		15		237		16		261		31			
08:45	51	206	21	96	197	768	17	80	248	974	38	176		
09:00	35		15		71		19		106		34			
09:15	42		16		64		12		106		28			
09:30	25		13		51		11		76		24			
09:45	21	123	16	60	51	237	7	49	72	360	23	109		
10:00	26		18		43		13		69		31			
10:15	28		14		41		5		69		19			
10:30	29		4		36		7		65		11			
10:45	44	127	6	42	41	161	3	28	85	288	9	70		
11:00	49		6		37		8		86		14			
11:15	24		7		47		1		71		8			
11:30	48		5		41		0		89		5			
11:45	40	161	2	20	52	177	3	12	92	338	5	32		
Total	869	-	3214		2067		1550		2936		4764			
Percent	29.6%		67.5%		70.4%		32.5%							
Day Total		408	33			36	17			770	00			
_														
Peak	07:30	-	05:00	-	08:00	-	02:45	-	08:00	-	05:00	-	-	-
Vol.	238	-	738	-	768	-	215	-	974	-	915	-	-	-
P.H.F.	0.862		0.896		0.810		0.896		0.933		0.890			



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 C VOLUME Site Code: MAX2017099.1

Start		SB				NB				Comb	in		11/29/20	
Time	A.M.	02	P.M.		A.M.		P.M.		A.M.	ed	P.M.		18 Thu	
12:00	2		49		3		39		5		88		Tilu	
12:15	2		37		1		35		3		72			
12:30	2		42		3		32		5		74			
12:45	2	8	36	164	1	8	29	135	3	16	65	299		
01:00	1	0	32	104	1	0	35	133	2	10	67	299		
01:00	0		38		1		44		1		82			
01:30											72			
01.30	0	2	45	110	0	2	27	150	0	4	77	200		
01:45	1	2	33	148	0	2	44	150	1	4	77	298		
02:00	1		47		2		41		3		88			
02:15	1		49		0		52		1		101			
02:30	0	•	58	070	1		55	400	1	•	113	470		
02:45	0	2	125	279	1	4	45	193	1	6	170	472		
03:00	0		114		0		51		0		165			
03:15	0		143		1		51		1		194			
03:30	0		155		0		41		0		196			
03:45	0	0	186	598	1	2	44	187	1	2	230	785		
04:00	0		239		0		36		0		275			
04:15	2		203		3		43		5		246			
04:30	0		144		0		42		0		186			
04:45	1	3	154	740	2	5	38	159	3	8	192	899		
05:00	3		158		8		32		11		190			
05:15	2		153		3		55		5		208			
05:30	2		169		5		56		7		225			
05:45	4	11	111	591	14	30	47	190	18	41	158	781		
06:00	12		119	001	17	00	38	100	29		157	701		
06:15	14		88		31		45		45		133			
06:30	17		61		45		30		62		91			
06:45		58	51	319	82	175	25	138	97	233	76	457		
	15 25	56		319	02	175		130		233	65	437		
07:00	35		44		92		21		127					
07:15	38		53		110		28		148		81			
07:30	49	407	32	450	131	400	25	404	180	050	57	054		
07:45	45	167	21	150	156	489	27	101	201	656	48	251		
08:00	78		29		172		26		250		55			
08:15	57		26		146		21		203		47			
08:30	42		21		135		29		177		50			
08:45	36	213	34	110	132	585	30	106	168	798	64	216		
09:00	39		12		83		16		122		28			
09:15	35		27		72		17		107		44			
09:30	39		16		58		8		97		24			
09:45	40	153	15	70	42	255	9	50	82	408	24	120		
10:00	28		22		52		14		80		36			
10:15	30		7		61		9		91		16			
10:30	39		5		31		11		70		16			
10:45	25	122	7	41	40	184	9	43	65	306	16	84		
11:00	30		11		27		7		57	500	18	٥.		
11:15	39		3		55		3		94		6			
11:30	26		3		41		0		67		3			
11:45	35	130	4	21	45	168	1	11	80	298	5	32		
Total	869	130	3231		1907	100	1463	- 11	2776	230	4694	- 52		
Percent	31.3%		68.8%		68.7%		31.2%		2110		4094			
Day Total		410	00			33	70			747	70			
Dool:	07:20		03:30		07:45		02:45		07:20		03:30			
Peak	07:30	-	03:30	-	07:45	-	02:15	-	07:30	-	03:30	-	-	-
Vol.	229	-	783	-	609	-	203	-	834	-	947	-	-	-
P.H.F.	0.734		0.819		0.885		0.923		0.834		0.861			

386



Dedham Avenue east of School Street City, State: Needham, MA Client: GPI/N.Rogers EB

Vol.

2

312

66

3

26

5

1

3

3

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

EB														
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
11/28/1				•									•	
8	0	10	2	1	0	0	0	0	0	0	0	0	0	13
01:00	0	5	1	0	0	0	0	0	0	0	0	0	0	6
02:00	0	3	2	0	0	0	0	0	0	0	0	0	0	5
03:00	0	2	3	1	0	0	0	0	0	0	0	0	0	6
04:00	1	7	1	0	2	0	0	0	0	0	0	0	0	11
05:00	1	25	2	0	1	0	0	0	3	0	0	0	0	32
06:00	2	77	17	0	8	1	0	0	0	0	0	0	0	105
07:00	5	159	46	3	11	0	0	0	1	0	0	0	0	225
08:00	5	176	50	4	16	2	0	0	1	0	0	0	0	254
09:00	3	156	39	3	15	0	1	1	0	0	0	0	0	218
10:00	3	129	28	0	15	1	0	1	0	0	0	0	0	177
11:00	1	173	43	4	14	2	1	2	2	0	0	0	0	242
12 PM	0	167	47	0	15	1	0	1	0	0	0	0	0	231
13:00	1	186	40	3	17	5	1	3	1	0	0	0	0	257
14:00	2	225	66	1	26	5	0	1	0	0	0	0	0	326
15:00	0	252	54	2	16	1	0	0	3	0	0	0	0	328
16:00	2	312	61	1	10	0	0	0	0	0	0	0	0	386
17:00	1	307	45	0	11	0	0	0	0	0	0	0	0	364
18:00	0	229	26	0	3	0	0	0	0	0	0	0	0	258
19:00	0	158	22	0	2	0	0	1	0	0	0	0	0	183
20:00	1	111	16	1	2	0	0	0	0	0	0	0	0	131
21:00	0	95	11	1	4	0	0	1	0	0	0	0	0	112
22:00	0	51	5	1	3	0	0	0	0	0	0	0	0	60
23:00	0	43	8	0	1	0	0	0	0	0	0	0	0	52
Total	28	3058	635	26	192	18	3	11	11	0	0	0	0	3982
Percent	0.7%	76.8%	15.9%	0.7%	4.8%	0.5%	0.1%	0.3%	0.3%	0.0%	0.0%	0.0%	0.0%	
_ AM	07:00	08:00	08:00	08:00	08:00	08:00	09:00	11:00	05:00					08:00
Peak														
Vol.	5	176	50	4	16	2	1	2	3					254
PM	14:00	16:00	14:00	13:00	14:00	13:00	13:00	13:00	15:00					16:00
Peak		0.10		•										000



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 AxI	6 Axle	>6 Axl	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
11/29/1														
8	0	19	6	1	2	0	0	0	0	0	0	0	0	28
01:00	0	1	3	0	0	0	0	0	0	0	0	0	0	4
02:00	0	5	0	1	0	0	0	0	0	0	0	0	0	6
03:00	0	2	1	0	0	0	0	0	0	0	0	0	0	3
04:00	0	5	0	0	3	0	0	0	0	0	0	0	0	8
05:00	0	25	3	1	5	0	0	0	3	0	0	0	0	37
06:00	3	71	17	0	9	1	0	0	0	0	0	0	0	101
07:00	0	177	40	3	5	3	0	4	0	0	0	0	0	232
08:00	0	186	41	4	11	2	0	1	1	0	0	0	0	246
09:00	4	155	33	4	10	3	0	0	2	0	0	0	0	211
10:00	2	155	38	1	12	1	0	0	3	0	0	0	0	212
11:00	0	180	43	4	18	1	0	1	0	0	0	0	0	247
12 PM	1	180	33	2	8	4	0	3	1	0	0	0	0	232
13:00	0	169	36	0	16	2	0	3	0	0	0	0	0	226
14:00	5	208	57	3	16	1	0	1	0	0	0	0	0	291
15:00	2	281	67	3	16	5	0	0	0	0	0	0	0	374
16:00	2	305	61	0	13	4	0	4	0	0	0	0	0	389
17:00	1	284	38	2	9	0	0	0	0	0	0	0	0	334
18:00	0	212	20	1	7	0	0	0	0	0	0	0	0	240
19:00	0	162	24	0	6	0	0	1	0	0	0	0	0	193
20:00	0	122	11	0	3	0	0	0	0	0	0	0	0	136
21:00	0	103	16	0	0	0	0	0	0	0	0	0	0	119
22:00	0	47	8	1	3	0	0	0	0	0	0	0	0	59
23:00	0	51	8	0	1 1 70	0	0	0	0	0	0	0	0	60
Total	20	3105	604	31	173	27	0	18	10	0	0	0	0	3988
Percent	0.5%	77.9%	15.1%	0.8%	4.3%	0.7%	0.0%	0.5%	0.3%	0.0%	0.0%	0.0%	0.0%	
AM	09:00	08:00	11:00	08:00	11:00	07:00		07:00	05:00					11:00
Peak		400	40		40	•			•					0.47
Vol.	4	186	43	4	18	3		4	3					247
PM	14:00	16:00	15:00	14:00	13:00	15:00		16:00	12:00					16:00
Peak	E	20 <i>E</i>	67	2	16	F								200
Vol.	5	305	67	3	16	5		4	1					389



D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
11/28/1														
8	0	7	0	0	0	0	0	0	0	0	0	0	0	7
01:00	0	4	0	0	0	0	0	0	0	0	0	0	0	4
02:00	0	2	1	1	0	0	0	0	0	0	0	0	0	4
03:00	0	7	1	0	0	1	0	0	0	0	0	0	0	9
04:00	0	21	5	1	4	1	0	0	0	0	0	0	0	32
05:00	0	70	24	0	5	0	0	0	1	1	0	0	0	101
06:00	1	181	37	0	10	5	0	0	0	0	0	0	0	234
07:00	4	246	54	1	9	3	4	4	0	0	1	0	0	326
08:00	2	298	43	6	11	5	0	2	2	0	0	0	0	369
09:00	0	239	39	1	15	0	1	4	1	0	0	0	0	300
10:00	2	182	35	2	9	5	0	1	1	0	0	0	0	237
11:00	1	194	32	1	7	5	2	0	1	0	0	0	0	243
12 PM	1	178	26	0	4	4	0	0	1	0	0	0	0	214
13:00	1	180	23	0	10	1	0	2	0	0	0	0	0	217
14:00	3	202	29	2	1	4	1	1	1	0	0	0	0	244
15:00	0	233	27	2	3	1	0	0	0	0	0	0	0	266
16:00	0	176	20	0	2	0	0	0	0	0	0	0	0	198
17:00	0	190	18	0	2	1	0	1	0	0	0	0	0	212
18:00	2	178	15	0	2	1	0	0	0	0	0	0	0	198
19:00	0	103	7	0	0	0	0	0	0	0	0	0	0	110
20:00	0	58	7	0	0	0	0	0	0	0	0	0	0	65
21:00	0	47	8	0	1	0	0	0	0	0	0	0	0	56
22:00	1	42	7	0	2	1	0	0	0	0	0	0	0	53
23:00	0	25	3	0	0	0	0	0	0	0	0	0	0	28
Total	18	3063	461	17	97	38	8	15	8	1	1	0	0	3727
Percent	0.5%	82.2%	12.4%	0.5%	2.6%	1.0%	0.2%	0.4%	0.2%	0.0%	0.0%	0.0%	0.0%	
AM Peak	07:00	08:00	07:00	08:00	09:00	06:00	07:00	07:00	08:00	05:00	07:00			08:00
Vol.	4	298	54	6	15	5	4	4	2	1	1			369
PM		290	54							ı	<u> </u>			
Peak	14:00	15:00	14:00	14:00	13:00	12:00	14:00	13:00	12:00					15:00
Vol.	3	233	29	2	10	4	1	2	1					266

14:00

265



Dedham Avenue east of School Street City, State: Needham, MA Client: GPI/N.Rogers WB

PM

Peak Vol. 12:00

5

17:00

233

12:00

40

13:00

3

12:00

7

14:00

3

14:00

1

12:00

1

22:00

2

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

WB														
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
11/29/1														
8	0	3	0	0	1	0	0	0	0	0	0	0	0	4
01:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
02:00	0	1	2	0	0	0	0	0	0	0	0	0	0	3
03:00	0	5	1	0	0	0	0	0	0	0	0	0	0	6
04:00	0	19	1	1	0	0	0	0	0	0	0	0	0	21
05:00	1	73	21	0	5	2	0	0	1	0	0	0	0	103
06:00	0	151	38	2	10	6	0	2	1	0	0	0	0	210
07:00	2	259	36	0	9	2	0	0	2	0	0	0	0	310
08:00	0	339	64	2	8	0	1	3	1	0	0	0	0	418
09:00	4	252	32	2	18	2	0	3	1	0	0	0	0	314
10:00	0	190	24	5	10	2	1	1	1	0	0	0	0	234
11:00	2	190	26	2	5	3	1	0	0	0	0	0	0	229
12 PM	5	207	40	0	7	1	0	1	0	0	0	0	0	261
13:00	1	171	34	3	4	0	0	1	1	0	0	0	0	215
14:00	2	217	36	2	3	3	1	0	1	0	0	0	0	265
15:00	3	197	30	0	6	1	0	0	0	0	0	0	0	237
16:00	0	192	13	1	0	1	0	0	0	0	0	0	0	207
17:00	1	233	6	0	3	2	0	0	0	0	0	0	0	245
18:00	0	173	11	0	2	0	0	0	0	0	0	0	0	186
19:00	0	112	11	0	0	0	0	0	0	0	0	0	0	123
20:00	0	84	6	0	0	0	0	0	0	0	0	0	0	90
21:00	0	51	8	1	1	0	0	0	0	0	0	0	0	61
22:00	0	50	2	0	1	0	0	0	2	0	0	0	0	55
23:00	0	14	1	0	0	0	0	0	0	0	0	0	0	15
Total	21	3185	443	21	93	25	4	11	11	0	0	0	0	3814
Percent	0.6%	83.5%	11.6%	0.6%	2.4%	0.7%	0.1%	0.3%	0.3%	0.0%	0.0%	0.0%	0.0%	
AM	09:00	08:00	08:00	10:00	09:00	06:00	08:00	08:00	07:00					08:00
Peak	00.00		00.00	10.00		00.00	00.00	00.00						
Vol.	4	339	64	5	18	6	1	3	2					418



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 D Speed Site Code: MAX2014099.1

Start	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th	Ave
Time	14	19	24	29	34	39	44	49	54	59	64	69	9999		% ile	Speed
11/28/																
18	0	1	0	1	3	6	1	1	0	0	0	0	0	13	39	35
01:00	0	0	1	0	1	2	1	1	0	0	0	0	0	6	44	36
02:00	0	0	0	0	1	3	0	1	0	0	0	0	0	5	45	38
03:00	0	0	0	2	1	2	1	0	0	0	0	0	0	6	39	34
04:00	0	1	1	0	1	6	1	1	0	0	0	0	0	11	40	35
05:00	0	0	1	5	9	13	4	0	0	0	0	0	0	32	38	34
06:00	3	0	2	6	44	41	8	1	0	0	0	0	0	105	38	34
07:00	16	5	34	74	73	20	3	0	0	0	0	0	0	225	33	27
08:00	11	5	15	54	121	44	4	0	0	0	0	0	0	254	35	30
09:00	3	3	12	44	90	56	7	0	1	1	0	0	1	218	36	32
10:00	5	0	7	30	95	35	5	0	0	0	0	0	0	177	35	31
11:00	1	0	14	62	121	37	6	1	0	0	0	0	0	242	35	31
12 PM	1	0	9	68	108	41	3	1	0	0	0	0	0	231	35	31
13:00	3	0	10	55	123	59	6	1	0	0	0	0	0	257	36	32
14:00	4	11	36	130	112	28	4	0	0	0	0	0	1	326	33	29
15:00	1	6	39	116	127	34	3	1	0	1	0	0	0	328	33	29
16:00	3	8	40	120	170	42	3	0	0	0	0	0	0	386	33	30
17:00	6	20	44	124	140	28	0	0	0	0	0	0	2	364	33	28
18:00	1	1	9	89	114	39	5	0	0	0	0	0	0	258	34	31
19:00	0	1	2	40	96	34	6	2	0	0	0	0	2	183	36	32
20:00	0	0	2	25	58	40	5	1	0	0	0	0	0	131	37	33
21:00	0	1	0	16	41	42	9	1	0	1	0	0	1	112	38	34
22:00	0	0	0	12	24	20	3	1	0	0	0	0	0	60	37	33
23:00	0	0	2	6	12	20	9	3	0	0	0	0	0	52	41	36
Total	58	63	280	1079	1685	692	97	17	1	3	0	0	7	3982		
%	1.5%	1.6%	7.0%	27.1%	42.3%	17.4%	2.4%	0.4%	0.0%	0.1%	0.0%	0.0%	0.2%			
AM	07:00	07:00	07:00	07:00	08:00	09:00	06:00	00:00	09:00	09:00			09:00	08:00		
Peak								00.00		00.00						
Vol.	16	5	34	74	121	56	8	1	1	1			1	254		
_ PM	17:00	17:00	17:00	14:00	16:00	13:00	21:00	23:00		15:00			17:00	16:00		
Peak																
Vol.	6	20	44	130	170	59	9	3		1			2	386		

Stats 15th Pe

15th Percentile: 24 MPH 50th Percentile: 30 MPH 85th Percentile: 35 MPH

95th Percentile: 35 MPH 35th Percentile: 38 MPH

 Mean Speed(Average):
 31 MPH

 10 MPH Pace Speed:
 25-34 MPH

 Number in Pace:
 2764

 Percent in Pace:
 69.4%

 Number of Vehicles > 30 MPH:
 2165

 Percent of Vehicles > 30 MPH:
 54.4%



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

186604 D Speed Site Code: MAX2014099.1

Start	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th	Ave
Time	14	19	24	29	34	39	44	49	54	59	64	69	9999		% ile	Speed
11/29/																
18	0	1	0	1	8	13	5	0	0	0	0	0	0	28	39	35
01:00	0	0	0	0	1	2	1	0	0	0	0	0	0	4	41	37
02:00	0	0	0	1	4	1	0	0	0	0	0	0	0	6	34	32
03:00	0	0	0	0	1	2	0	0	0	0	0	0	0	3	37	35
04:00	0	0	0	0	3	3	2	0	0	0	0	0	0	8	41	36
05:00	0	0	0	5	19	11	1	1	0	0	0	0	0	37	37	33
06:00	4	0	4	11	37	34	9	2	0	0	0	0	0	101	38	33
07:00	10	8	32	86	77	17	1	0	0	0	0	0	1	232	32	28
08:00	0	3	15	65	112	42	7	1	0	1	0	0	0	246	35	31
09:00	7	1	7	44	96	49	7	0	0	0	0	0	0	211	36	31
10:00	0	1	8	51	101	40	10	0	0	0	0	0	1	212	36	32
11:00	4	2	8	54	112	61	4	0	0	1	0	0	1	247	36	32
12 PM	3	1	9	47	102	62	7	1	0	0	0	0	0	232	36	32
13:00	1	0	6	49	103	60	6	0	1	0	0	0	0	226	36	32
14:00	8	6	41	102	90	41	3	0	0	0	0	0	0	291	34	29
15:00	8	6	33	144	142	40	1	0	0	0	0	0	0	374	33	29
16:00	9	12	49	134	141	39	5	0	0	0	0	0	0	389	33	29
17:00	6	2	41	121	127	29	6	0	0	1	0	0	1	334	33	29
18:00	0	0	18	91	90	35	4	1	0	0	0	0	1	240	34	30
19:00	1	0	5	51	88	41	5	2	0	0	0	0	0	193	36	32
20:00	0	1	2	32	64	30	7	0	0	0	0	0	0	136	36	32
21:00	0	0	0	22	48	36	12	1	0	0	0	0	0	119	38	34
22:00	0	0	2	8	23	22	4	0	0	0	0	0	0	59	37	34
23:00	0	0	1	5	13	25	16	0	0	0	0	0	0	60	41	36
Total	61	44	281	1124	1602	735	123	9	1	3	0	0	5	3988		
%	1.5%	1.1%	7.0%	28.2%	40.2%	18.4%	3.1%	0.2%	0.0%	0.1%	0.0%	0.0%	0.1%			
AM	07:00	07:00	07:00	07:00	08:00	11:00	10:00	06:00		08:00			07:00	11:00		
Peak	07.00	07.00	07.00	07.00	00.00	11.00	10.00	00.00		00.00			07.00	11.00		
Vol.	10	8	32	86	112	61	10	2		1			1	247		
PM	16:00	16:00	16:00	15:00	15:00	12:00	23:00	19:00	13:00	17:00			17:00	16:00		
Peak									13.00	17.00			17.00			
Vol.	9	12	49	144	142	62	16	2	1	1			1	389		

Stats 15th Percentile: 24 MPH 30 MPH 50th Percentile:

85th Percentile : 35 MPH 38 MPH 95th Percentile:

Mean Speed(Average) : 10 MPH Pace Speed : Number in Pace : 31 MPH 25-34 MPH 2726 68.4% 2158

Percent in Pace : Number of Vehicles > 30 MPH : Percent of Vehicles > 30 MPH : 54.1%



 $\mathsf{WB}$ 

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 D Speed Site Code: MAX2014099.1

Start																	
The color of the	Start	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th	Ave
18		14	19	24	29	34	39	44	49	54	59	64	69	9999		% ile	Speed
O1:00																	
02:00 0 0 0 2 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0									1								
03:00					0		1								4		
04:00 0 0 0 0 1 2 14 15 1 0 0 0 0 0 0 0 32 37 34 05:00 0 0 1 1 27 48 23 2 0 0 0 0 0 0 0 0 0 101 36 32 06:00 1 1 1 11 101 102 17 1 0 0 0 0 0 0 0 0 0 0 234 33 30 07:00 71 41 98 82 29 5 0 0 0 0 0 0 0 0 0 0 326 28 21 08:00 12 17 91 150 87 12 0 0 0 0 0 0 0 0 0 0 326 28 21 08:00 12 17 91 150 87 12 0 0 0 0 0 0 0 0 0 0 369 31 26 09:00 3 1 40 121 111 22 2 2 0 0 0 0 0 0 0 0 0 0 300 33 29 10:00 4 4 4 24 95 100 10 0 0 0 0 0 0 0 0 0 0 0 237 32 29 11:00 4 6 32 110 77 13 1 0 0 0 0 0 0 0 0 0 237 32 28 12:00 0 0 1 25 112 68 8 1 1 0 0 0 0 0 0 0 0 0 0 244 32 28 13:00 0 1 2 1 115 68 11 1 1 0 0 0 0 0 0 0 0 0 244 32 28 14:00 9 25 63 104 42 1 0 0 0 0 0 0 0 0 0 0 244 29 25 15:00 4 17 70 117 53 5 0 0 0 0 0 0 0 0 0 0 0 244 29 25 15:00 4 17 70 117 53 5 0 0 0 0 0 0 0 0 0 0 0 244 29 25 15:00 4 17 70 117 53 5 0 0 0 0 0 0 0 0 0 0 0 2266 30 26 16:00 2 33 49 115 26 3 3 0 0 0 0 0 0 0 0 0 0 0 226 33 29 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 244 29 25 15:00 1 8 67 110 20 6 0 0 0 0 0 0 0 0 0 0 0 0 198 28 26 17:00 1 8 67 110 20 6 0 0 0 0 0 0 0 0 0 0 0 198 28 26 17:00 1 8 67 110 20 6 0 0 0 0 0 0 0 0 0 0 0 198 28 26 17:00 1 8 67 110 20 6 0 0 0 0 0 0 0 0 0 0 0 0 198 30 26 18:00 0 5 61 91 38 33 2 0 0 0 0 0 0 0 0 0 0 0 110 33 29 20:00 0 1 6 25 28 5 0 0 0 0 0 0 0 0 0 0 0 0 188 30 26 18:00 0 5 61 91 38 33 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0	0	2	1		1		0	0	0	0	0	0	4		
05:00 0 0 0 1 1 27 48 23 2 0 0 0 0 0 0 0 101 36 32 06:00 1 1 1 11 101 102 17 1 0 0 0 0 0 0 0 0 234 33 30 07:00 71 41 98 82 29 5 0 0 0 0 0 0 0 0 0 0 326 28 21 08:00 12 17 91 150 87 12 0 0 0 0 0 0 0 0 0 0 369 31 26 09:00 3 1 40 121 111 22 2 2 0 0 0 0 0 0 0 0 0 369 31 26 09:00 3 1 40 121 111 22 2 2 0 0 0 0 0 0 0 0 0 0 3237 32 29 11:00 4 6 32 110 77 13 1 0 0 0 0 0 0 0 0 0 237 32 29 11:00 4 6 32 110 77 13 1 0 0 0 0 0 0 0 0 0 237 32 28 12 PM 0 0 0 25 112 68 8 1 1 0 0 0 0 0 0 0 0 0 0 244 32 28 13:00 0 1 21 115 68 11 1 0 0 0 0 0 0 0 0 0 214 32 28 13:00 0 1 21 115 68 11 1 0 0 0 0 0 0 0 0 0 214 32 28 13:00 0 1 21 115 68 11 1 0 0 0 0 0 0 0 0 0 214 32 28 13:00 0 1 21 115 68 11 1 0 0 0 0 0 0 0 0 0 244 29 25 15:00 4 17 70 117 53 5 0 0 0 0 0 0 0 0 0 244 29 25 15:00 4 17 70 117 53 5 0 0 0 0 0 0 0 0 0 0 266 30 26 16:00 2 3 49 115 26 3 0 0 0 0 0 0 0 0 0 0 0 266 30 26 16:00 2 3 49 115 26 3 0 0 0 0 0 0 0 0 0 0 0 0 0 198 28 26 17:00 1 8 67 110 20 6 0 0 0 0 0 0 0 0 0 0 198 28 26 18:00 0 5 61 91 38 33 2 0 0 0 0 0 0 0 0 0 0 0 198 30 26 19:00 0 2 13 49 36 10 0 0 0 0 0 0 0 0 0 0 0 198 30 26 19:00 0 2 13 49 36 10 0 0 0 0 0 0 0 0 0 0 0 198 30 26 19:00 0 0 1 6 6 25 28 5 0 0 0 0 0 0 0 0 0 0 0 0 198 30 26 19:00 0 0 1 6 6 25 28 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			-	0	1		1	2	2	0	-						
06:00		-	0	0				1	0	0	-						
O7:00		0	0	1				2	0	0	0	0		0			
08:00 12 17 91 150 87 12 0 0 0 0 0 0 0 0 0 369 31 26 09:00 3 1 40 121 111 22 2 2 0 0 0 0 0 0 0 0 300 330 33 29 10:00 4 4 2 4 95 100 10 0 0 0 0 0 0 0 0 0 237 32 29 11:00 4 6 32 110 77 13 1 0 0 0 0 0 0 0 0 237 32 29 11:00 4 6 32 110 77 13 1 0 0 0 0 0 0 0 0 243 32 28 12 PM 0 0 0 25 112 68 8 1 0 0 0 0 0 0 0 0 0 214 32 28 13:00 0 1 21 115 68 11 1 0 0 0 0 0 0 0 0 217 32 29 14:00 9 25 63 104 42 1 0 0 0 0 0 0 0 0 0 217 32 29 15:00 4 17 70 117 53 5 0 0 0 0 0 0 0 0 0 244 29 25 16:00 2 3 49 115 26 3 0 0 0 0 0 0 0 0 0 0 266 30 26 16:00 2 3 49 115 26 3 0 0 0 0 0 0 0 0 0 0 0 198 28 26 17:00 1 8 67 110 20 6 0 0 0 0 0 0 0 0 0 198 28 26 18:00 0 0 5 61 91 38 3 0 0 0 0 0 0 0 0 0 198 28 26 18:00 0 0 5 61 91 38 3 0 0 0 0 0 0 0 0 0 0 198 30 26 19:00 0 0 2 13 49 36 10 0 0 0 0 0 0 0 0 0 198 30 26 19:00 0 0 2 13 49 36 10 0 0 0 0 0 0 0 0 0 0 110 33 29 20:00 0 0 1 6 25 28 5 0 0 0 0 0 0 0 0 0 0 0 65 33 30 20:00 0 0 1 6 25 28 5 0 0 0 0 0 0 0 0 0 0 0 65 33 30 20:00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		•	1					1	0	0	0	0					
09:00								0	0	0	0	0		0			
10:00			17						0	0	0	0		0			
11:00		3	1					2	0	0	0	0	0	0			
12 PM		4	4					0	0	0	0	0		0			
13:00   0		4	6					1	0	0	0	0		0			
14:00		0	0					1	0	0	0	0		0			
15:00		0	1				11	1	0	0	0	0	0	0			
16:00 2 3 49 115 26 3 0 0 0 0 0 0 0 0 198 28 26 17:00 1 8 67 110 20 6 0 0 0 0 0 0 0 0 212 28 26 18:00 0 5 61 91 38 3 0 0 0 0 0 0 0 0 198 30 26 19:00 0 2 13 49 36 10 0 0 0 0 0 0 0 0 110 33 29 20:00 0 1 6 25 28 5 0 0 0 0 0 0 0 0 110 33 29 21:00 0 0 3 18 33 2 0 0 0 0 0 0 0 0 0 65 33 29 21:00 0 0 3 3 18 33 2 0 0 0 0 0 0 0 0 0 56 33 30 22:00 0 0 3 7 8 28 6 1 0 0 0 0 0 0 0 0 56 33 30 23:00 0 0 0 2 10 8 8 0 0 0 0 0 0 0 0 0 28 36 31  Total 111 135 686 1564 1025 189 14 3 0 0 0 0 0 0 0 3727  May be ak 14:00 14:00 15:00 15:00 12:00 13:00 12:00  PM Peak 14:00 14:00 15:00 15:00 12:00 13:00 12:00		9		63			1	0	0	0	0	0	0	0			
17:00								-	0	0	0	-		0			
18:00 0 5 61 91 38 3 0 0 0 0 0 0 0 198 30 26  19:00 0 2 13 49 36 10 0 0 0 0 0 0 0 0 110 33 29  20:00 0 1 6 25 28 5 0 0 0 0 0 0 0 0 0 65 33 29  21:00 0 0 3 18 33 2 0 0 0 0 0 0 0 0 0 65 33 30  21:00 0 0 3 3 7 8 28 6 1 0 0 0 0 0 0 0 0 0 56 33 30  22:00 0 0 3 7 8 28 6 1 0 0 0 0 0 0 0 0 56 33 30  23:00 0 0 0 2 10 8 8 0 0 0 0 0 0 0 0 0 0 28 36 31  Total 111 135 686 1564 1025 189 14 3 0 0 0 0 0 0 28 36 31  Total 111 135 686 1564 1025 189 14 3 0 0 0 0 0 3727  % 3.0% 3.6% 18.4% 42.0% 27.5% 5.1% 0.4% 0.1% 0.0% 0.0% 0.0% 0.0%  AM Peak 07:00 07:00 07:00 08:00 09:00 05:00 00:00 03:00  PM Peak 14:00 14:00 15:00 15:00 12:00 13:00 12:00		2						0	0	0	0	0		0			
19:00 0 2 13 49 36 10 0 0 0 0 0 0 0 0 110 33 29 20:00 0 1 6 25 28 5 0 0 0 0 0 0 0 0 65 33 29 21:00 0 0 3 18 33 2 0 0 0 0 0 0 0 0 0 56 33 30 22:00 0 3 7 8 28 6 1 0 0 0 0 0 0 0 0 56 33 30 23:00 0 0 0 2 10 8 8 8 0 0 0 0 0 0 0 0 0 53 33 30 23:00 0 0 0 2 10 8 8 8 0 0 0 0 0 0 0 0 0 28 36 31  Total 111 135 686 1564 1025 189 14 3 0 0 0 0 0 0 3727  % 3.0% 3.6% 18.4% 42.0% 27.5% 5.1% 0.4% 0.1% 0.0% 0.0% 0.0% 0.0%  AM Peak 07:00 07:00 07:00 08:00 09:00 05:00 00:00 03:00  PM Peak 14:00 14:00 15:00 15:00 12:00 13:00 12:00		1						-	0	-	•	-		0			
20:00 0 1 6 25 28 5 0 0 0 0 0 0 0 0 0 65 33 29 21:00 0 0 3 18 33 2 0 0 0 0 0 0 0 0 0 56 33 30 22:00 0 3 7 8 28 6 1 0 0 0 0 0 0 0 0 56 33 30 23:00 0 0 0 2 10 8 8 8 0 0 0 0 0 0 0 0 0 28 36 31  Total 111 135 686 1564 1025 189 14 3 0 0 0 0 0 0 0 3727  % 3.0% 3.6% 18.4% 42.0% 27.5% 5.1% 0.4% 0.1% 0.0% 0.0% 0.0% 0.0%  AM Peak 07:00 07:00 07:00 08:00 09:00 05:00 00:00 03:00  PM Peak 14:00 14:00 15:00 15:00 12:00 13:00 12:00  15:00								-	0	-	•			0			
21:00 0 0 0 3 18 33 2 0 0 0 0 0 0 0 0 0 56 33 30 22:00 0 3 7 8 28 6 1 0 0 0 0 0 0 0 0 53 33 30 23:00 0 0 0 2 10 8 8 8 0 0 0 0 0 0 0 0 0 28 36 31 Total 111 135 686 1564 1025 189 14 3 0 0 0 0 0 0 3727 % 3.0% 3.6% 18.4% 42.0% 27.5% 5.1% 0.4% 0.1% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0			2					0	0	0	•			0			
22:00       0       3       7       8       28       6       1       0       0       0       0       0       0       53       33       30         23:00       0       0       0       0       0       0       0       0       0       0       0       0       0       28       36       31         Total       111       135       686       1564       1025       189       14       3       0       0       0       0       0       3727       0<		-	1					-	0	-	-	-	-	-			
23:00   0   0   0   2   10   8   8   0   0   0   0   0   0   0			-	3				0	-	-	-						
Total         111         135         686         1564         1025         189         14         3         0         0         0         0         0         3727           %         3.0%         3.6%         18.4%         42.0%         27.5%         5.1%         0.4%         0.1%         0.0				7				1	-	-	-	-					
%         3.0%         3.6%         18.4%         42.0%         27.5%         5.1%         0.4%         0.1%         0.0% <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>36</td><td>31_</td></th<>																36	31_
AM Peak Vol. 71 41 98 150 111 23 2 2 369  PM Peak Peak Vol. 71 4:00 14:00 15:00 15:00 12:00 13:00 12:00 12:00 13:00 12:00									-	_	-			-	3727		
Peak     07:00     07:00     07:00     08:00     09:00     05:00     00:00     03:00       Vol.     71     41     98     150     111     23     2     2     369       PM Peak     14:00     14:00     15:00     15:00     12:00     13:00     12:00     15:00		3.0%	3.6%	18.4%	42.0%	27.5%	5.1%	0.4%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%			
Peak       Vol.     71     41     98     150     111     23     2     2       PM Peak     14:00     14:00     15:00     15:00     12:00     12:00		07:00	07:00	07:00	08:00	09:00	05:00	00.00	03:00						08:00		
PM 14:00 14:00 15:00 15:00 12:00 12:00 12:00 12:00 15:00																	
Peak 14:00 14:00 15:00 15:00 12:00 12:00 12:00 15:00 15:00		71	41	98	150	111	23	2	2	-					369		
Peak		14:00	14:00	15:00	15:00	12:00	13:00	12:00							15:00		
VOI. 9 25 /U 11/ 68 11 1 266																	
	VOI.	9	25	70	117	80	11	1							200		

Stats

15th Percentile :21 MPH50th Percentile :26 MPH85th Percentile :32 MPH95th Percentile :34 MPH

 Mean Speed(Average):
 27 MPH

 10 MPH Pace Speed:
 25-34 MPH

 Number in Pace:
 2589

 Percent in Pace:
 69.5%

 Number of Vehicles > 30 MPH:
 1026

 Percent of Vehicles > 30 MPH:
 27.5%



WB

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 D Speed Site Code: MAX2014099.1

***																
Start	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th	Ave
Time	14	19	24	29	34	39	44	49	54	59	64	69	9999		% ile	Speed
11/29/																
18	0	0	0	2	1	0	1	0	0	0	0	0	0	4	41	32
01:00	0	0	0	1	0	1	0	0	0	0	0	0	0	2	37	32
02:00	0	0	0	0	1	1	1	0	0	0	0	0	0	3	41	37
03:00	0	0	0	1	1	3	1	0	0	0	0	0	0	6	39	35
04:00	0	0	0	3	10	5	3	0	0	0	0	0	0	21	38	34
05:00	2	2	0	20	56	17	6	0	0	0	0	0	0	103	36	32
06:00	2	0	13	79	94	19	3	0	0	0	0	0	0	210	33	30
07:00	31	34	80	125	36	4	0	0	0	0	0	0	0	310	28	23
08:00	0	3	72	188	143	11	1	0	0	0	0	0	0	418	32	28
09:00	0	1	38	128	129	18	0	0	0	0	0	0	0	314	32	29
10:00	1	9	33	92	83	15	1	0	0	0	0	0	0	234	32	28
11:00	1	5	14	102	89	17	1	0	0	0	0	0	0	229	33	29
12 PM	6	5	37	110	89	12	2	0	0	0	0	0	0	261	32	28
13:00	1	4	15	86	88	20	1	0	0	0	0	0	0	215	33	29
14:00	17	19	64	119	42	4	0	0	0	0	0	0	0	265	29	25
15:00	10	8	57	120	37	4	1	0	0	0	0	0	0	237	29	26
16:00	1	11	33	110	47	5	0	0	0	0	0	0	0	207	31	27
17:00	0	9	68	134	33	1	0	0	0	0	0	0	0	245	28	26
18:00	0	9	38	103	35	1	0	0	0	0	0	0	0	186	30	26
19:00	1	1	22	50	47	2	0	0	0	0	0	0	0	123	32	28
20:00	0	1	10	42	34	2	1	0	0	0	0	0	0	90	32	29
21:00	0	0	2	23	27	8	1	0	0	0	0	0	0	61	33	31
22:00	0	0	3	28	20	4	0	0	0	0	0	0	0	55	32	29
23:00	0	0	0	3	7	3	1	1	0	0	0	0	0	15	38	34
Total	73	121	599	1669	1149	177	25	1	0	0	0	0	0	3814		
%	1.9%	3.2%	15.7%	43.8%	30.1%	4.6%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM	07:00	07:00	07:00	08:00	08:00	06:00	05:00							08:00		
Peak																
Vol.	31	34	80	188	143	19	6							418		
PM	14:00	14:00	17:00	17:00	12:00	13:00	12:00	23:00						14:00		
Peak								_0.00								
Vol.	17	19	68	134	89	20	2	1						265		

Stats

15th Percentile :22 MPH50th Percentile :27 MPH85th Percentile :32 MPH95th Percentile :34 MPH

 Mean Speed(Average):
 28 MPH

 10 MPH Pace Speed:
 25-34 MPH

 Number in Pace:
 2818

 Percent in Pace:
 73.9%

 Number of Vehicles > 30 MPH:
 1122

 Percent of Vehicles > 30 MPH:
 29.4%



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 D Volume Site Code: MAX2014099.1

Start		EB			,	WE	<u> </u>			Comb	in		11/28/20	
Time	A.M.		P.M.		A.M.	***	P.M.		A.M.	ed	P.M.		18 Wed	
12:00	1 A.W.		65		3		49		4		114		vveu	
12:15	2		66		1		58		3		124			
12:30	1		50		3		60		4		110			
12:45	9	13	50	231	Ő	7	47	214	9	20	97	445		
01:00	2		57		3	•	53		5		110			
01:15	3		73		0		49		3		122			
01:30	1		66		1		48		2		114			
01:45	0	6	61	257	0	4	67	217	0	10	128	474		
02:00	2	Ŭ	75		2	•	64		4		139			
02:15	1		73		0		52		1		125			
02:30	2		75		0		68		2		143			
02:45	0	5	103	326	2	4	60	244	2	9	163	570		
03:00	Ö	Ū	77	020	1	•	72		1	·	149	0.0		
03:15	Ö		80		3		63		3		143			
03:30	1		82		3		67		4		149			
03:45	5	6	89	328	2	9	64	266	7	15	153	594		
04:00	1	Ŭ	109	020	7	Ū	46	200	8		155	001		
04:15	4		101		3		58		7		159			
04:30	4		93		11		45		15		138			
04:45	2	11	83	386	11	32	49	198	13	43	132	584		
05:00	8		118		5	<b>-</b>	68		13		186			
05:15	6		85		20		48		26		133			
05:30	10		88		41		43		51		131			
05:45	8	32	73	364	35	101	53	212	43	133	126	576		
06:00	14	02	71	001	43	.01	64	212	57	100	135	010		
06:15	20		70		54		46		74		116			
06:30	44		70		65		46		109		116			
06:45	27	105	47	258	72	234	42	198	99	339	89	456		
07:00	55	100	54		67		27	100	122	000	81	100		
07:15	45		37		73		25		118		62			
07:30	58		50		100		26		158		76			
07:45	67	225	42	183	86	326	32	110	153	551	74	293		
08:00	76		46		95	0_0	25		171		71			
08:15	61		30		103		11		164		41			
08:30	56		24		84		15		140		39			
08:45	61	254	31	131	87	369	14	65	148	623	45	196		
09:00	45	_0.	46		65		13		110	0_0	59			
09:15	56		24		88		15		144		39			
09:30	53		24		75		15		128		39			
09:45	64	218	18	112	72	300	13	56	136	518	31	168		
10:00	48		28		50		16		98		44			
10:15	44		15		59		15		103		30			
10:30	47		10		68		13		115		23			
10:45	38	177	7	60	60	237	9	53	98	414	16	113		
11:00	66		14		62		11		128		25			
11:15	46		20		64		6		110		26			
11:30	63		10		63		6		126		16			
11:45	67	242	8	52	54	243	5	28	121	485	13	80		
Total	1294		2688		1866		1861		3160		4549			
Percent	40.9%		59.1%		59.1%		40.9%							
Day Total		398	32			37	27			770	9			
Peak	07:30	_	04:15	_	07:30	_	03:00	_	07:30	_	03:30	_	-	_
Vol.	262	_	395	-	384	_	266	-	646	-	616	-	_	-
P.H.F.	0.862	_	0.837	-	0.932	_	0.924	-	0.944	-	0.969	-	-	_
1 .1 1.1 .	0.002		0.001		0.002		0.027		0.077		0.000			



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 D Volume Site Code: MAX2014099.1

Start		EB				WB	<u> </u>			Comb	in		11/29/20	
Time	A.M.		P.M.		A.M.	***	P.M.		A.M.	ed	P.M.		18 Thu	
12:00	8.IVI.		50		2		65		10		115		I IIu	
12:15	6		68		1		70		7		138			
12:30	7		50		1		60		8		110			
		28		222		1		261	7	22		493		
12:45	7	20	64	232	0	4	66	261		32	130	493		
01:00	2		64		1		72		3		136			
01:15	0		38		1		42		1		80			
01:30	1		65		0	_	47		1	_	112			
01:45	1	4	59	226	0	2	54	215	1	6	113	441		
02:00	0		67		1		61		1		128			
02:15	4		66		1		71		5		137			
02:30	1		69		0		68		1		137			
02:45	1	6	89	291	1	3	65	265	2	9	154	556		
03:00	1		120		0		50		1		170			
03:15	0		91		2		60		2		151			
03:30	1		80		2 2 2		55		3		135			
03:45	1	3	83	374	2	6	72	237	3	9	155	611		
04:00	3		131		2		59		5		190			
04:15	1		100		4		49		5 5		149			
04:30			76		6		49		8		125			
04:45	2 2	8	82	389	9	21	50	207	11	29	132	596		
05:00	3	U	95	000	12	۲ ا	69	201	15	25	164	550		
05:00	8		89		18				26		152			
							63							
05:30	10	0.7	72	204	31	400	61	0.45	41	440	133	<b>570</b>		
05:45	16	37	78	334	42	103	52	245	58	140	130	579		
06:00	8		68		46		51		54		119			
06:15	22		54		45		47		67		101			
06:30	38		64		67		42		105		106			
06:45	33	101	54	240	52	210	46	186	85	311	100	426		
07:00	47		65		57		32		104		97			
07:15	49		49		68		36		117		85			
07:30	59		36		78		33		137		69			
07:45	77	232	43	193	107	310	22	123	184	542	65	316		
08:00	69		38		104		30		173		68			
08:15	65		33		112		23		177		56			
08:30	52		31		96		20		148		51			
08:45	60	246	34	136	106	418	17	90	166	664	51	226		
09:00	67	2-10	32	100	80	710	18	00	147	001	50	220		
09:15	45		38		77		13		122		51			
09:30	39		25		87		17		126		42			
		211		110		211		61		EGE		180		
09:45	60 56	211	24	119	70 74	314	13	01	130	525	37	100		
10:00	56		23		74		18		130		41			
10:15	52		15		60		15		112		30			
10:30	58	0:-	16		42	<b>65</b> ·	13		100	4	29			
10:45	46	212	5	59	58	234	9	55	104	446	14	114		
11:00	53		18		52		5		105		23			
11:15	64		24		61		3		125		27			
11:30	61		10		58		6		119		16			
11:45	69	247	8	60	58	229	11	15	127	476	9	75		
Total Percent	1335 41.9%		2653 57.5%		1854 58.1%		1960 42.5%		3189		4613			
Day Total		398	38			38	14			780	)2			
Peak	07:30	-	03:30	-	07:45	-	00:15	-	07:45	-	03:15	-	-	-
Vol.	270	-	394	-	419	-	268	-	682	-	631	-	-	-
P.H.F.	0.877		0.752		0.935		0.931		0.927		0.830			



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

VVD														
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 Axl	5 Axle	>6 Axl	<6 Axl	6 Axle	>6 Axl	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
11/28/1														
8	0	4	0	0	0	0	0	0	0	0	0	0	0	4
01:00	0	4	1	1	0	0	0	0	0	0	0	0	0	6
02:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
03:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
04:00	0	8	2	0	0	0	0	0	0	0	0	0	0	10
05:00	0	29	4	0	0	0	0	0	0	0	0	0	0	33
06:00	2	93	19	0	4	0	1	0	0	0	0	0	0	119
07:00	5	340	33	1	6	0	0	1	0	0	0	0	0	386
08:00	0	350	55	2	4	0	0	2	0	0	0	0	0	413
09:00	1	228	32	0	6	0	0	0	0	0	0	0	0	267
10:00	1	186	36	2	8	1	0	1	0	0	0	0	0	235
11:00	0	206	48	2	4	2	0	1	0	0	0	0	0	263
12 PM	0	225	34	0	2	1	0	0	0	0	0	0	0	262
13:00	2	234	36	0	6	1	0	0	0	0	0	0	0	279
14:00	1	298	37	3	3	0	0	2	0	0	0	0	0	344
15:00	2	339	35	2	3	2	0	0	0	0	0	0	0	383
16:00	2	315	21	2	2	0	0	1	0	0	0	0	0	343
17:00	0	318	25	0	2	0	0	1	0	0	0	0	0	346
18:00	2	321	21	2	1	1	0	0	0	0	0	0	0	348
19:00	0	202	9	0	1	0	0	0	0	0	0	0	0	212
20:00	0	111	6	0	0	0	0	0	0	0	0	0	0	117
21:00	0	62	4	0	0	0	0	0	0	0	0	0	0	66
22:00	0	38	2	0	0	0	0	0	0	0	0	0	0	40
23:00	0	12	0	0	0	0	0	0	0	0	0	0	0	12
Total	18	3927	460	17	52	8	1	9	0	0	0	0	0	4492
Percent	0.4%	87.4%	10.2%	0.4%	1.2%	0.2%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	
AM	07:00	08:00	08:00	08:00	10:00	11:00	06:00	08:00						08:00
Peak														
Vol.	5	350	55	2	8	2	1	2						413
PM	13:00	15:00	14:00	14:00	13:00	15:00		14:00						15:00
Peak														
Vol.	2	339	37	3	6	2		2						383



۷	٧	В
_		S

11/29/1 8 01:00 02:00 03:00 04:00	0 0 0 0 0 0	Cars & Trailers  2 1 3 5 36	2 Axle Long 0 0 0 1 3	0 0 0 2	2 Axle 6 Tire 0 0 0	3 Axle Single 0 0	4 Axle Single 0 0	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi 0	>6 Axl Multi 0	Total 2
11/29/1 8 01:00 02:00 03:00 04:00	0 0 0 0 0	2 1 3 3 5	0 0 0 1 3	0 0 0 2	0 0 0	0	0	0	0					
8 01:00 02:00 03:00 04:00	0 0 0 0	1 3 3 5	0 0 1 3	0 0 2	0 0	0				0	0	0	0	2
01:00 02:00 03:00 04:00	0 0 0 0	1 3 3 5	0 0 1 3	0 0 2	0 0	0				U				
02:00 03:00 04:00	0 0 0 0	3 3 5	0 1 3	0	0			0	0	0	0	0	0	1
03:00 04:00	0 0 0	3 5	1	2	-		Ö	0	0	0	0	0	0	3
04:00	0 0	5				0	0	0	0	0	0	0	0	6
	0			0	1	0	0	0	0	0	0	0	0	9
05:00		50	4	0	0	0	0	0	0	0	0	0	0	40
06:00		99	21	0	2	1	0	0	0	0	0	0	0	123
07:00	4	330	36	1	6	0	0	1	0	0	0	0	0	378
08:00	4	352	39	4	4	1	0	0	1	0	0	0	0	405
09:00	1	210	52	1	5	1	0	1	0	0	0	0	0	271
10:00	Ó	220	42	1	9	0	0	2	0	0	0	0	0	274
11:00	1	218	39	2	2	0	0	1	0	0	0	0	0	263
12 PM	Ö	257	33	1	2	0	0	0	0	0	0	0	0	293
13:00	0	234	29	2	4	0	0	0	0	0	0	0	0	269
14:00	1	309	40	2	7	0	0	4	0	0	0	0	0	363
15:00	3	298	33	1	3	0	1	2	Ö	0	0	0	Õ	341
16:00	2	288	28	0	3	0	0	0	Ö	0	0	0	Ö	321
17:00	0	354	29	1	0	0	Ö	Ö	Ö	Ö	Ö	0	Ö	384
18:00	0	270	15	0	1	0	0	0	0	0	0	0	0	286
19:00	0	195	7	0	0	0	0	0	0	0	0	0	Ö	202
20:00	0	163	12	0	1	0	0	0	0	0	0	0	0	176
21:00	0	99	6	Ö	0	Ö	Ö	Ö	Ö	Ö	0	0	Ö	105
22:00	0	44	0	0	0	0	0	0	0	0	0	0	0	44
23:00	0	22	2	0	0	0	0	0	0	0	0	0	0	24
Total	16	4012	471	18	50	3	1	11	1	0	0	0	0	4583
Percent	0.3%	87.5%	10.3%	0.4%	1.1%	0.1%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	
Λ N Λ														00.00
Peak	07:00	08:00	09:00	08:00	10:00	06:00		10:00	08:00					08:00
Vol.	4	352	52	4	9	1		2	1					405
PM Peak	15:00	17:00	14:00	13:00	14:00		15:00	14:00						17:00
Vol.	3	354	40	2	7		1	4						384



Great Plain Avenue just east of Ridgeway Avenue City, State: Needham, MA Client: GPI/N.Rogers

Peak

Vol.

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 E Class Site Code: MAX2017099.1

EΒ Start Cars & 2 Axle 2 Axle 3 Axle 4 Axle <5 Axl 5 Axle >6 AxI <6 AxI 6 Axle >6 AxI **Bikes** Double Time **Trailers** Long **Buses** 6 Tire Single Single Double Double Multi Multi Multi Total 11/28/1 01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00 12 PM 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00 Total Percent 0.0% 0.0% 0.0% 0.4% 87.9% 9.2% 0.5% 1.7% 0.1% 0.1% 0.0% 0.0% 0.0% AM 07:00 07:00 09:00 07:00 09:00 07:00 07:00 08:00 07:00 Peak Vol. PM 18:00 15:00 14:00 14:00 12:00 13:00 16:00 15:00



EΒ

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 E Class Site Code: MAX2017099.1

Start Cars & 2 Axle 2 Axle 3 Axle 4 Axle <5 Axl 5 Axle >6 AxI <6 AxI 6 Axle >6 AxI **Bikes** Double Time **Trailers** Long **Buses** 6 Tire Single Single Double Double Multi Multi Multi Total 11/29/1 01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00 12 PM 13:00 14:00 15:00 5 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00 Total Percent 0.6% 87.4% 0.1% 0.0% 0.0% 9.8% 0.6% 1.4% 0.0% 0.2% 0.0% 0.0% 0.0% AM 07:00 07:00 09:00 11:00 11:00 07:00 07:00 11:00 07:00 Peak Vol. PM 15:00 17:00 14:00 14:00 12:00 15:00 14:00 17:00 Peak Vol.



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 E Speed Site Code: MAX2017099.1

WB Start Total 85th Ave Time % ile Speed 11/28/ 01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00 12 PM 13:00 n 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00 Total % 7.3% 4.3% 11.6% 39.1% 32.1% 4.9% 0.5% 0.0% 0.0% 0.0% 0.0% 0.0% 0.2% AM 07:00 04:00 07:00 08:00 07:00 08:00 08:00 09:00 08:00 Peak Vol. PM 13:00 13:00 14:00 18:00 15:00 15:00 12:00 18:00 15:00 13:00 14:00 Peak Vol. 

Stats

15th Percentile: 20 MPH 50th Percentile: 27 MPH 85th Percentile: 32 MPH 95th Percentile: 34 MPH

Mean Speed(Average): 27 MPH
10 MPH Pace Speed: 25-34 MPH
Number in Pace: 3197
Percent in Pace: 71.2%
Number of Vehicles > 25 MPH: 3100
Percent of Vehicles > 25 MPH: 69.0%



WB

46 Morton Street, Framinghan, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

186604 E Speed Site Code: MAX2017099.1

***																
Start	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th	Ave
Time	14	19	24	29	34	39	44	49	54	59	64	69	9999		% ile	Speed
11/29/																
18	0	0	0	1	1	0	0	0	0	0	0	0	0	2	32	30
01:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1	28	27
02:00	0	0	0	0	0	1	2	0	0	0	0	0	0	3	42	40
03:00	0	1	0	3	2	0	0	0	0	0	0	0	0	6	31	27
04:00	0	0	0	1	4	2	2	0	0	0	0	0	0	9	40	35
05:00	0	1	1	9	16	12	1	0	0	0	0	0	0	40	36	32
06:00	9	7	6	37	49	15	0	0	0	0	0	0	0	123	33	28
07:00	41	31	65	136	95	8	1	0	0	0	0	0	1	378	31	25
08:00	41	25	69	150	100	14	3	1	0	0	0	0	2	405	31	25
09:00	25	11	17	88	107	23	0	0	0	0	0	0	0	271	33	27
10:00	18	11	31	105	94	15	0	0	0	0	0	0	0	274	32	27
11:00	16	10	24	106	83	21	2	0	0	0	0	0	1	263	33	27
12 PM	16	8	29	117	103	17	1	0	0	0	1	0	1	293	32	28
13:00	10	7	20	119	107	6	0	0	0	0	0	0	0	269	32	28
14:00	30	7	33	158	120	13	1	0	0	0	0	0	1	363	32	27
15:00	27	5	22	145	123	15	4	0	0	0	0	0	0	341	32	27
16:00	12	11	25	143	120	10	0	0	0	0	0	0	0	321	32	28
17:00	19	10	42	175	125	12	0	0	0	0	1	0	0	384	32	27
18:00	13	5	33	104	111	18	1	0	1	0	0	0	0	286	32	28
19:00	4	2	0	50	107	31	4	1	0	0	0	0	3	202	34	31
20:00	3	0	6	60	90	15	2	0	0	0	0	0	0	176	33	30
21:00	7	0	3	23	50	18	4	0	0	0	0	0	0	105	35	30
22:00	0	1	1	13	22	6	1	0	0	0	0	0	0	44	34	31
23:00	0	0	0	2	18	2	1	1	0	0	0	0	0	24	35	33
Total	291	153	427	1746	1647	274	30	3	1	0	2	0	9	4583		
%	6.3%	3.3%	9.3%	38.1%	35.9%	6.0%	0.7%	0.1%	0.0%	0.0%	0.0%	0.0%	0.2%			
AM	07:00	07:00	08:00	08:00	09:00	09:00	08:00	08:00					08:00	08:00		
Peak								00.00								
Vol.	41	31	69	150	107	23	3	1					2	405		
PM	14:00	16:00	17:00	17:00	17:00	19:00	15:00	19:00	18:00		12:00		19:00	17:00		
Peak								10.00	10.00		12.00					
Vol.	30	11	42	175	125	31	4	1	1		1		3	384		

Stats 15th Percentile: 50th Percentile:

28 MPH 85th Percentile: 32 MPH 35 MPH 95th Percentile:

21 MPH

73.4%

Mean Speed(Average) : 10 MPH Pace Speed : 27 MPH 25-34 MPH Number in Pace : 3393 Percent in Pace : 74.0% Number of Vehicles > 25 MPH : Percent of Vehicles > 25 MPH : 3363



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 E Speed Site Code: MAX2017099.1

Start	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th	Ave
Time	14	19	24	29	34	39	44	49	54	59	64	69	9999		% ile	Speed
11/28/																
18	0	0	0	2	0	1	0	0	0	0	0	0	0	3	36	30
01:00	0	0	0	1	1	1	0	0	0	0	0	0	0	3	36	32
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	*
03:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1	28	27
04:00	0	0	0	0	2	1	1	1	0	0	0	0	0	5	45	38
05:00	0	0	1	5	13	5	0	0	0	0	0	0	0	24	35	32
06:00	10	3	7	40	35	9	0	1	0	0	0	0	0	105	33	27
07:00	19	28	92	106	37	9	1	0	0	0	0	0	0	292	29	24
08:00	24	10	58	123	58	6	0	0	0	0	0	0	0	279	30	25
09:00	15	9	32	65	83	17	2	0	0	0	0	0	0	223	33	27
10:00	7	6	13	52	85	28	1	0	0	0	0	0	0	192	34	29
11:00	6	3	13	81	110	23	0	0	0	0	0	0	0	236	33	29
12 PM	16	7	29	82	102	36	1	0	1	0	0	0	0	274	33	28
13:00	10	1	7	69	99	31	1	0	0	0	0	0	0	218	33	30
14:00	14	10	49	157	86	28	1	0	0	0	0	1	0	346	32	27
15:00	22	13	50	189	129	20	3	0	0	0	0	0	0	426	32	27
16:00	11	7	35	177	118	16	2	0	0	0	0	0	0	366	32	28
17:00	18	7	58	185	98	11	2	0	0	0	0	0	0	379	31	27
18:00	24	17	61	127	60	14	1	0	0	0	0	0	0	304	31	25
19:00	10	2	18	94	93	22	2	0	0	0	0	0	0	241	33	29
20:00	6	1	6	45	59	25	0	0	0	0	0	0	0	142	34	30
21:00	4	1	1	23	44	14	1	0	0	0	0	0	0	88	34	30
22:00	5	0	2	5	13	11	2	0	0	0	0	0	0	38	37	30
23:00	1	0	0	2	6	4	1_	0	0	0	0	0	0	14	37	32
Total	222	125	532	1631	1331	332	22	2	1	0	0	1	0	4199		
%	5.3%	3.0%	12.7%	38.8%	31.7%	7.9%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
_ AM	08:00	07:00	07:00	08:00	11:00	10:00	09:00	04:00						07:00		
Peak																
Vol.	24	28	92	123	110	28	2	1						292		
PM	18:00	18:00	18:00	15:00	15:00	12:00	15:00		12:00			14:00		15:00		
Peak												_				
Vol.	24	17	61	189	129	36	3		1			1		426		

Stats

15th Percentile: 21 MPH 50th Percentile: 27 MPH 85th Percentile: 32 MPH 95th Percentile: 36 MPH

 Mean Speed(Average):
 28 MPH

 10 MPH Pace Speed:
 25-34 MPH

 Number in Pace:
 2962

 Percent in Pace:
 70.5%

 Number of Vehicles > 25 MPH:
 2994

 Percent of Vehicles > 25 MPH:
 71.3%



EΒ

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 E Speed Site Code: MAX2017099.1

Start																	
11/29/   18	Start	1	15	20	25	30	35	40	45	50	55	60	65	70	Total	85th	Ave
18		14	19	24	29	34	39	44	49	54	59	64	69	9999		% ile	Speed
O1100																	
O2:00				0	1				0		0	0			7		
03:00				0	1	0			0		0	0			1		
04:00		0	0	0	0	1	0	0	0	0	0	0	0	0	1		
05:00   0			-	-	1				-	-					1		
06:00 8 1 3 60 118 83 22 8 38 20 0 0 0 0 0 0 0 0 0 0 98 35 29 07:00 31 60 118 83 22 4 6 1 0 0 0 0 0 0 0 0 0 232 27 22 20 08:00 25 13 70 116 48 8 8 1 1 0 0 0 0 0 0 0 0 282 30 25 09:00 15 3 20 82 97 29 2 0 0 0 0 0 0 0 0 248 33 29 10:00 17 1 15 66 76 28 4 0 0 0 0 0 0 0 0 0 248 33 29 11:00 17 1 15 66 76 28 4 0 0 0 0 0 0 0 0 0 249 33 28 11:00 11 6 26 89 87 29 1 0 0 0 0 0 0 0 0 0 0 249 33 28 11:00 11 6 26 89 87 29 1 0 0 0 0 0 0 0 0 0 0 249 33 28 11:00 11 6 26 89 87 29 1 0 0 0 0 0 0 0 0 0 0 263 34 30 13:00 4 0 20 92 91 38 5 1 0 0 0 0 0 0 0 0 0 251 34 30 13:00 4 0 20 92 91 38 5 1 0 0 0 0 0 0 0 0 0 251 34 30 13:00 14 7 48 103 131 24 3 0 0 0 0 0 0 0 0 0 251 34 32 28 15:00 14 7 48 103 131 24 3 0 0 0 0 0 0 0 0 0 347 32 28 16:00 9 6 32 136 133 26 4 0 0 0 0 0 0 0 0 346 33 29 17:00 14 9 51 172 123 9 0 0 0 0 0 0 0 0 0 346 33 29 17:00 14 9 51 172 123 9 0 0 0 0 0 0 0 0 0 332 32 27 18:00 19 13 60 125 100 14 1 0 0 0 0 0 0 0 0 0 332 32 27 18:00 19 13 60 125 100 14 1 0 0 0 0 0 0 0 0 0 0 332 32 27 18:00 19 13 60 125 100 14 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0	0	0	1			2	0	0	0	0	0	0	-		
O7:00   31   60   118   83   24   6   1   0   0   0   0   0   0   0   323   27   22			0	-	-			5	0	0	0	0					
08:00			1	-				0	0	0	0	0		0			
09:00   15   3   20   82   97   29   2   0   0   0   0   0   0   248   33   29								1	0	0	0	0		0			
10:00   17								1	1	0	0	0					
11:00			3					2	0	0	0	0		0			
12 PM			1					4	0	-	-						
13:00			6						0	-	-						
14:00       10       6       49       149       116       15       2       0       0       0       0       0       347       32       28         15:00       14       7       48       103       131       24       3       0       0       0       0       0       330       33       28         16:00       9       6       32       136       133       26       4       0       0       0       0       0       346       33       29         17:00       14       9       51       172       123       9       0       0       0       0       0       0       346       33       29         18:00       19       13       60       125       100       14       1       0       0       0       0       0       378       32       27         19:00       10       0       2       63       95       31       2       0       0       0       0       0       332       32       27         19:00       1       0       0       2       63       95       31       2       0       0									0	-							
15:00			-						1	-	_	0					
16:00         9         6         32         136         133         26         4         0         0         0         0         346         33         29           17:00         14         9         51         172         123         9         0         0         0         0         0         0         378         32         27           18:00         19         13         60         125         100         14         1         0         0         0         0         0         332         32         27           19:00         10         0         2         63         95         31         2         0         0         0         0         0         332         32         27           19:00         10         0         2         63         95         31         2         0         0         0         0         0         203         34         30           20:00         4         1         6         72         103         21         2         0         0         0         0         126         34         31           21:00         1         1			6						-	-	-						
17:00 14 9 51 172 123 9 0 0 0 0 0 0 0 0 0 378 32 27 18:00 19 13 60 125 100 14 1 0 0 0 0 0 0 0 0 332 32 27 19:00 10 0 2 63 95 31 2 0 0 0 0 0 0 0 203 34 30 20:00 4 1 6 72 103 21 2 0 0 0 0 0 0 209 33 30 21:00 1 1 2 2 25 76 19 2 0 0 0 0 0 0 0 209 33 30 21:00 0 1 1 0 9 20 12 2 0 0 0 0 0 0 0 126 34 31 22:00 0 1 0 0 1 0 0 5 5 4 0 0 0 0 0 0 0 0 126 34 31  Total 201 133 541 1506 1489 379 45 2 0 0 0 0 0 0 0 4296  4 4 7% 3.1% 12.6% 35.1% 34.7% 8.8% 1.0% 0.0% 0.0% 0.0% 0.0% 0.0%  AM Peak 07:00 07:00 07:00 08:00 09:00 09:00 05:00 08:00  PM Peak 18:00 18:00 18:00 17:00 16:00 12:00 12:00 13:00			7					3	0	-	•						
18:00         19         13         60         125         100         14         1         0         0         0         0         0         332         32         27           19:00         10         0         2         63         95         31         2         0         0         0         0         0         203         34         30           20:00         4         1         6         72         103         21         2         0         0         0         0         0         209         33         30           21:00         1         1         2         25         76         19         2         0         0         0         0         0         209         33         30           21:00         0         1         0         9         20         12         2         0         0         0         0         126         34         31           22:00         0         1         0         5         5         4         0         0         0         0         0         0         444         37         32           23:00         0			-					=	•	•	-	_					
19:00   10   0   2   63   95   31   2   0   0   0   0   0   0   203   34   30			-					-	•	-	-	-					
20:00			13						0	•	0	0					
21:00       1       1       2       25       76       19       2       0       0       0       0       0       126       34       31         22:00       0       1       0       9       20       12       2       0       0       0       0       0       44       37       32         23:00       0       1       0       5       5       4       0       0       0       0       0       0       0       15       36       31         Total       201       133       541       1506       1489       379       45       2       0       0       0       0       0       0       4296         %       4.7%       3.1%       12.6%       35.1%       34.7%       8.8%       1.0%       0.0%<			0						•	-	-	-					
22:00       0       1       0       9       20       12       2       0       0       0       0       0       44       37       32         23:00       0       1       0       5       5       4       0       0       0       0       0       0       15       36       31         Total       201       133       541       1506       1489       379       45       2       0       0       0       0       0       4296         %       4.7%       3.1%       12.6%       35.1%       34.7%       8.8%       1.0%       0			1						•	-	_	_					
23:00         0         1         0         5         5         4         0         0         0         0         0         0         15         36         31           Total 201         133         541         1506         1489         379         45         2         0         0         0         0         4296           %         4.7%         3.1%         12.6%         35.1%         34.7%         8.8%         1.0%         0.0%			1						-	-	-						
Total         201         133         541         1506         1489         379         45         2         0         0         0         0         0         4296           %         4.7%         3.1%         12.6%         35.1%         34.7%         8.8%         1.0%         0.0			1	-					-	-	_	_					
%         4.7%         3.1%         12.6%         35.1%         34.7%         8.8%         1.0%         0.0% <th< td=""><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>36</td><td>31</td></th<>			1													36	31
AM Peak         07:00         07:00         08:00         09:00         09:00         05:00         08:00         07:00           Vol.         31         60         118         116         97         29         5         1         323           PM Peak         18:00         18:00         17:00         16:00         12:00         12:00         13:00         17:00										_					4296		
Peak     07:00     07:00     08:00     09:00     09:00     09:00     08:00       Vol.     31     60     118     116     97     29     5     1     323       PM Peak     18:00     18:00     18:00     17:00     16:00     12:00     12:00     13:00		4.7%	3.1%	12.6%	35.1%	34.7%	8.8%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
Peak           Vol.         31         60         118         116         97         29         5         1         323           PM Peak         18:00         18:00         17:00         16:00         12:00         12:00         13:00         17:00		07:00	07:00	07:00	08:00	09:00	09:00	05:00	08:00						07:00		
PM 18:00 18:00 18:00 17:00 16:00 12:00 12:00 13:00 17:00									4								
Peak 18:00 18:00 18:00 17:00 16:00 12:00 12:00 13:00 17:00		31	60	118	116	97	29	5	1						323		
Peak		18:00	18:00	18:00	17:00	16:00	12:00	12:00	13:00						17:00		
VUI. 19 13 00 1/2 133 38 5 1 3/8		10	10	60	170		20	_	4						270		
	VOI.	19	13	00	1/2	133	38	5	1						3/8		

Stats

15th Percentile :21 MPH50th Percentile :28 MPH85th Percentile :33 MPH95th Percentile :36 MPH

 Mean Speed(Average):
 28 MPH

 10 MPH Pace Speed:
 25-34 MPH

 Number in Pace:
 2995

 Percent in Pace:
 69.7%

 Number of Vehicles > 25 MPH:
 3120

 Percent of Vehicles > 25 MPH:
 72.6%



Great Plain Avenue just east of Ridgeway Avenue City, State: Needham, MA Client: GPI/N.Rogers

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 E Volume Site Code: MAX2017099.1

Start		WB				EB	-			Comb	in		11/28/20	
Time	A.M.	***	P.M.		A.M.	LD	P.M.		A.M.	ed	P.M.		18 Wed	
12:00	A.ivi.	-	60		2		72		4		132		weu	
12:15	1		61		0		70		1		131			
12:30	1		66		0		60		1		126			
12:45	Ö	4	75	262	1	3	72	274	1	7	147	536		
01:00	4	-	63	202	2	Ü	42	217	6	'	105	000		
01:15	2		74		0		49		2		123			
01:30	0		68		Ő		59		0		127			
01:45	Ö	6	74	279	1	3	68	218	1	9	142	497		
02:00	1	·	84		0	Ŭ	62		1	·	146	101		
02:15	1		94		Ö		70		1		164			
02:30	0		64		Ö		104		0		168			
02:45	1	3	102	344	Ő	0	110	346	1	3	212	690		
03:00	0	ŭ	93	• • •	Ö	·	108	0.0	0	•	201			
03:15	Ö		106		Ő		104		Ö		210			
03:30	Ö		84		Ö		114		Ö		198			
03:45	1	1	100	383	1	1	100	426	2	2	200	809		
04:00	2	•	93		0	•	84	0	2	_	177			
04:15	3		89		Ö		115		3		204			
04:30	2		95		0		71		2		166			
04:45	3	10	66	343	5	5	96	366	8	15	162	709		
05:00	3		77		4		107		7		184			
05:15	2		94		4		95		6		189			
05:30	8		77		6		94		14		171			
05:45	20	33	98	346	10	24	83	379	30	57	181	725		
06:00	16		102		15		98		31		200			
06:15	24		81		16		71		40		152			
06:30	26		77		33		80		59		157			
06:45	53	119	88	348	41	105	55	304	94	224	143	652		
07:00	71		50		50		57		121		107			
07:15	95		54		76		72		171		126			
07:30	105		51		94		42		199		93			
07:45	115	386	57	212	72	292	70	241	187	678	127	453		
08:00	136		39		84		48		220		87			
08:15	123		30		70		29		193		59			
08:30	76		23		65		32		141		55			
08:45	78	413	25	117	60	279	33	142	138	692	58	259		
09:00	58		22		50		27		108		49			
09:15	78		19		57		24		135		43			
09:30	62		9		61		26		123		35			
09:45	69	267	16	66	55	223	11	88	124	490	27	154		
10:00	63		11		51		11		114		22			
10:15	60		11		40		16		100		27			
10:30	54		7		48		4		102		11			
10:45	58	235	11	40	53	192	7	38	111	427	18	78		
11:00	52		4		61		7		113		11			
11:15	79		4		54		4		133		8			
11:30	66		1		57		2		123		3			
11:45	66	263	3	12	64	236	1	14	130	499	4	26		
Total Percent	1740 56.1%		2752 49.2%		1363 43.9%		2836 50.8%		3103		5588			
Day Total		449	92			419	99			869	11			
Peak	07:30	_	02:45	_	07:15	_	02:45	_	07:30	_	02:45	_	_	_
Vol.	479	_	385	_	326	-	436	_	799	-	821	_	-	_
P.H.F.	0.881	-	0.908	_	0.867	-	0.956	-	0.908	_	0.968	-		-



Great Plain Avenue just east of Ridgeway Avenue City, State: Needham, MA Client: GPI/N.Rogers

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com 186604 E Volume Site Code: MAX2017099.1

Start		WB	<u> </u>			EB				Comb	in		11/29/20	
Time	A.M.	***	P.M.		A.M.	LD	P.M.		A.M.	ed	P.M.		18 Thu	
12:00	A.ivi1		76		4		62	-	5		138		I IIu	
12:15	Ö		78		1		66		1		144			
12:30	Ö		81		1		69		1		150			
12:45	1	2	58	293	1	7	66	263	2	9	124	556		
01:00	Ö	_	79	200	Ö	•	63	200	0	J	142	000		
01:15	1		64		0		59		1		123			
01:30	Ö		65		0		58		Ö		123			
01:45	0	1	61	269	1	1	71	251	1	2	132	520		
02:00	0	Ī	85	200	Ö	į	64	201	Ö	_	149	320		
02:15	1		84		0		69		1		153			
02:30	Ö		81		1		104		1		185			
02:45	2	3	113	363	Ó	1	110	347	2	4	223	710		
03:00	1	3	86	303	0	'	102	J+1	1		188	7 10		
03:15	Ó		102		0		66		Ó		168			
03:30	4		87		0		94		4		181			
03:45	1	6	66	341	1	1	68	330	2	7	134	671		
04:00	0	O	70	341	0	,	85	330	0	1	155	071		
04:00			70 72		4		85		6		155			
	2		80						5					
04:30	5 2	9		221	0	6	91 95	346		15	171	667		
04:45		9	99	321	2	6	85	340	4	15	184	667		
05:00	1		86		6		110		7		196			
05:15	5		98		3		87		8		185			
05:30	13	40	103	004	6	00	79	070	19	00	182	700		
05:45	21	40	97	384	14	29	102	378	35	69	199	762		
06:00	27		71		18		104		45		175			
06:15	16		79		13		92		29		171			
06:30	30	400	68	000	21	00	76	000	51	004	144	040		
06:45	50	123	68	286	46	98	60	332	96	221	128	618		
07:00	70		50		42		58		112		108			
07:15	90		65		73		53		163		118			
07:30	121		45		112		57		233		102			
07:45	97	378	42	202	96	323	35	203	193	701	77	405		
08:00	105		39		82		65		187		104			
08:15	124		41		56		62		180		103			
08:30	74		43		63		39		137		82			
08:45	102	405	53	176	81	282	43	209	183	687	96	385		
09:00	72		39		69		42		141		81			
09:15	72		23		55		36		127		59			
09:30	72		26		65		28		137		54			
09:45	55	271	17	105	59	248	20	126	114	519	37	231		
10:00	68		8		47		15		115		23			
10:15	68		15		47		13		115		28			
10:30	69	:	11		53		8		122		19			
10:45	69	274	10	44	60	207	8	44	129	481	18	88		
11:00	59		5		63		7		122		12			
11:15	63		7		57		4		120		11			
11:30	64		8		69		1		133		9			
11:45	77	263	4	24	60	249	3	15	137	512	7	39		
Total Percent	1775 55.0%		2808 49.7%		1452 45.0%		2844 50.3%		3227		5652			
Day Total		458	83			429	96			887	'9			
Peak	07:30	_	02:45	_	07:15	_	02:15	_	07:30	_	02:30	_	_	_
Vol.	447	_	388	_	363	_	385	_	793	_	764	_	_	_
P.H.F.	0.901		0.858		0.810		0.875		0.851		0.857			



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

File Name: 186604 C Path Site Code : 2017099 Start Date : 11/29/2018

Groups	Printed-	Ρ	'ed	estri	ans	- Bicy	ycles	3

	Groups Printed- Pedestrians - Bicycle	S	
	Highland Avenue at No From North	orth Stairway	
Start Time	EB	WB	Int. Total
06:00 AM	0	0	0
06:15 AM	0	0	0
06:30 AM	0	0	0
06:45 AM	0	0	0
Total	0	0	0
07:00 AM	0	0	0
07:15 AM	0	0	0
07:30 AM	0	0	0
07:45 AM	0	1	1
Total	0	1	1
	_	- 1	_
08:00 AM	0	0	0
08:15 AM	0	0	0
08:30 AM	0	0	0
08:45 AM	0	0	0
Total	0	0	0
22.22.414		2	2
09:00 AM	0	0	0
09:15 AM	0	0	0
09:30 AM	0	0	0
09:45 AM	0	0	0
Total	U	0	U
10:00 AM	0	0	0
10:00 AM 10:15 AM	0	0	0
10.13 AM 10:30 AM	0	1	1
10:30 AM 10:45 AM	0	0	0
Total	0	1	<u></u>
Total	U	' '	ı
11:00 AM	0	0	0
11:15 AM	0	2	2
11:30 AM	0	3	3
11:45 AM	1	2	3
Total	1	7	3 3 8
1001	•	• 1	<b>G</b>
12:00 PM	1	0	1
12:15 PM	0	10	10
12:30 PM	3	0	3
12:45 PM	0	0	0
Total	4	10	14
		'	
01:00 PM	0	0	0
01:15 PM	0	0	0
01:30 PM	0	0	0
01:45 PM	0	1	1
Total	0	1	1
		·	
02:00 PM	0	0	0
02:15 PM	0	0	0
02:30 PM	0	2	2
02:45 PM	1	5	<u>6</u>
Total	1	7	8
03:00 PM	1	1	2
03:15 PM	0	0	0
03:30 PM	0	1	1
03:45 PM	1	1	5
Total	2	3	5



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com File Name: 186604 C Path Site Code: 2017099

Start Date : 11/29/2018

		Emain datar equests e pamereom			
		Groups Printed- Pedestrians - Bi			
	Highland Avenue at North Stairway				
	North				
Int. Total	WB	EB	Start Time		
3	3	0	04:00 PM		
0	0	0	04:15 PM		
0	0	0	04:30 PM		
0	0	0	04:45 PM		
3	3	0	Total		
0	0	0	05:00 PM		
0	0	0	05:15 PM		
0	0	0	05:30 PM		
0	0	0	05:45 PM		
0	0	0	Total		
		'			
41	33	8	Grand Total		
	80.5	19.5	Apprch %		
	80.5	19.5	Total %		
41	33	8	Pedestrians		
100	100	100	% Pedestrians		
0	0	0	Bicycles		
0	0		% Bicycles		

Start Time	EB	From North WB	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 09:45 AM - Peak 1 of		***	7.рр. тош	III. Total
Peak Hour for Entire Intersection Begins at 07:00				
07:00 AM	0	0	0	0
07:15 AM	0	0	0	0
07:30 AM	0	0	0	0
07:45 AM	0	1	1	1
Total Volume	0	1	1	1
% App. Total	0	100		
PHF	.000	.250	.250	.250
Pedestrians	0	1	1	1
% Pedestrians	0	100	100	100
Bicycles	0	0	0	0
% Bicycles	0	0	0	0
Peak Hour Analysis From 10:00 AM to 01:45 PM	- Peak 1 of 1			
Peak Hour for Entire Intersection Begins at 11:30				
11:30 AM	0	3	3	3
11:45 AM	1	2	3	3
12:00 PM	1	0	1	1
12:15 PM	0	10	10	10
Total Volume	2	15	17	17
% App. Total	11.8	88.2		
PHF	.500	.375	.425	.425
Pedestrians	2	15	17	17
% Pedestrians	100	100	100	100
Bicycles	0	0	0	0
% Bicycles	0	0	0	0



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com File Name: 186604 C Path Site Code: 2017099 Start Date: 11/29/2018

		Highland Avenue at North Stairway From North				
Start Time	EB	WB	App. Total	Int. Total		
Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of						
Peak Hour for Entire Intersection Begins at 02:15	5 PM					
02:15 PM	0	0	0	0		
02:30 PM	0	2	2	2		
02:45 PM	1	5	6	6		
03:00 PM	1	1	2	2		
Total Volume	2	8	10	10		
% App. Total	20	80				
PHF	.500	.400	.417	.417		
Pedestrians	2	8	10	10		
% Pedestrians	100	100	100	100		
Bicycles	0	0	0	0		
% Bicycles	0	0	0	0		



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com Groups Printed- Pedestrians - Bicycles File Name: 186604 CC Path

Site Code : 2017099 Start Date : 12/1/2018

		rinted- Pedestrians - Bicycles	Groups Pri
	'	Highland Avenue at North Stairway	
Int Total	WB	From North	Ctart Time
Int. Total		EB	Start Time
0	0	0	06:00 AM
0	0	0	06:15 AM
0	0	0	06:30 AM
0	0	0	06:45 AM
0	0	0	Total
0	0	0	07:00 AM
0	0	0	07:15 AM
0	0	0	07:30 AM
0	0	0	07:45 AM
0	0	0	Total
_	- 1	-	
•	0.1	•	00.00 444
0	0	0	08:00 AM
0	0	0	08:15 AM
0	0	0	08:30 AM
0	ő	0	08:45 AM
0	0	0	Total
1	1	0	09:00 AM
0	o l	0	09:15 AM
0			
1	1	0	09:30 AM
0	0	0	09:45 AM
2	2	0	Total
_	- 1	·	. • • • • • • • • • • • • • • • • • • •
•	0	0	40.00 414
0	0	0	10:00 AM
0	0	0	10:15 AM
0	0	0	10:30 AM
0	0	0	10:45 AM
0	0	0	Total
0	0	0	11:00 AM
0	0	0	11:15 AM
0	0	0	11:30 AM
0_	0	0	11:45 AM
0	0	0	Total
	- 1		
0	0	0	12:00 PM
0	0	0	
0	0	0	12:15 PM
0	0	0	12:30 PM
	1	1	12:45 PM
2 2		1	
2	1	ı	Total
0	0	0	01:00 PM
1	0	1	01:15 PM
0	0	Ö	01:30 PM
U	0		01.30 PW
0_	0	0	01:45 PM
1	0	1	Total
	'		
0	0	0	02:00 PM
0	<u> </u>	0	UZ.UU PIVI
5	5	0	02:15 PM
0	0	0	02:30 PM
0	0	0	02:45 PM
5	5	0	Total
5	ا ٥	U	Total
0	0	0	03:00 PM
0	0	0	03:15 PM
Ö	ő	0	03:30 PM
0	0	0	03:45 PM
0	0	0	Total



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com File Name: 186604 CC Path

Site Code : 2017099 Start Date : 12/1/2018

	Groups Printed- Pedestrians - Bicy		
	Highland Avenue at		
	From N		
Start Time	EB	WB	Int. Total
04:00 PM	0	0	0
04:15 PM	0	0	0
04:30 PM	0	0	0
04:45 PM	0	0	0
Total	0	0	0
05:00 PM	0	0	0
05:15 PM	0	0	0
05:30 PM	0	0	0
05:45 PM	0	0	0
Total	0	0	0
Grand Total	2	8	10
Apprch %	20	80	
Total %	20	80	
Pedestrians	2	7	9
% Pedestrians	100	87.5	90
Bicycles	0	1	1
% Bicycles	0	12.5	10

		Highland Avenue at North St	airway	
Start Time	EB	From North WB	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 09:45 AM - Peak 1 of		VVD	7.рр. тош	int. Total
Peak Hour for Entire Intersection Begins at 08:45				
08:45 AM	0	0	0	0
09:00 AM	0	1	1	1
09:15 AM	0	0	0	0
09:30 AM	0	1	1	1
Total Volume	0	2	2	2
% App. Total	0	100		
PHF	.000	.500	.500	.500
Pedestrians	0	2	2	2
% Pedestrians	0	100	100	100
Bicycles	0	0	0	0
% Bicycles	0	0	0	0
Peak Hour Analysis From 10:00 AM to 01:45 PM	- Peak 1 of 1			
Peak Hour for Entire Intersection Begins at 12:30				
12:30 PM	0	0	0	0
12:45 PM	1	1	2	2
01:00 PM	0	0	0	0
01:15 PM	1	0	1	1
Total Volume	2	1	3	3
% App. Total	66.7	33.3		
PHF	.500	.250	.375	.375
Pedestrians	2	1	3	3
% Pedestrians	100	100	100	100
Bicycles	0	0	0	0
% Bicycles	0	0	0	0



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com File Name: 186604 CC Path

Site Code : 2017099 Start Date : 12/1/2018

		Highland Avenue at North Stairway From North				
Start Time	EB	WB	App. Total	Int. Total		
Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of						
Peak Hour for Entire Intersection Begins at 02:00	PM					
02:00 PM	0	0	0	0		
02:15 PM	0	5	5	5		
02:30 PM	0	0	0	0		
02:45 PM	0	0	0	0		
Total Volume	0	5	5	5		
% App. Total	0	100				
PHF	.000	.250	.250	.250		
Pedestrians	0	4	4	4		
% Pedestrians	0	80.0	80.0	80.0		
Bicycles	0	1	1	1		
% Bicycles	0	20.0	20.0	20.0		



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com File Name: 186604 D Path Site Code: 2017099

Start Date : 11/29/2018

	Email: datarequests@pdilic.com		
	Groups Printed- Pedestrians - Bicycles Highland Avenue at North St	airway	
Start Time	From North EB	WB	Int. Total
06:00 AM	0	0	0
06:15 AM	Ö	0	0
06:30 AM	0	0	0
06:45 AM	0	0	0
Total	0	0	0
07.00.444		0.1	•
07:00 AM	0	0	0
07:15 AM	0	2	2
07:30 AM	0	1	1
07:45 AM	4	0	4
Total	4	3	7
08:00 AM	0	0	0
08:15 AM	0	0	0
08:30 AM	0	0	0
08:45 AM	Ō	o	0
Total	0	0	0
			· ·
09:00 AM	0	2	2
09:15 AM	0	0	0
09:30 AM	0	0	0
09:45 AM	0	ŏ	0
Total		2	2
Total	0	2	2
10:00 AM	0	0	0
10:15 AM	0	0	0
10:13 AM 10:30 AM	0	0	0
10:45 AM	3	0	3
Total	3	0	3
11:00 AM	1	0	0
11:00 AM 11:15 AM	0 0	0	0
		5	5
11:30 AM	0	0	0
11:45 AM	4	1	5
Total	4	6	10
12:00 PM		0	0
	0	0	0
12:15 PM	0	5	5
12:30 PM	0	0	0
12:45 PM	0	1	1
Total	0	6	6
04 00 DM		0	^
01:00 PM		0	0
01:15 PM	0	1	1
01:30 PM	0	1	1
01:45 PM	0	1	1
Total	0	3	3
00 00 DIA	1	0.1	
02:00 PM	1	0	1
02:15 PM	0	0	0
02:30 PM	0	4	4
02:45 PM	0	1	1
Total	1	5	6
03:00 PM	2	1	3
03:15 PM	0	1	1
03:30 PM	0	0	0
03:45 PM	0	0	0
Total		2	4
	1	ı	



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com File Name: 186604 D Path Site Code: 2017099

Start Date : 11/29/2018

		·	
		Groups Printed- Pedestrians - Bicycles	
		Highland Avenue at North Sta	
		From North	
Int. Total	WB	EB	Start Time
1	1	0	04:00 PM
0	0	0	04:15 PM
0	0	0	04:30 PM
1_	1	0	04:45 PM
2	2	0	Total
2	1	1	05:00 PM
0	0	0	05:15 PM
0	0	0	05:30 PM
1_	1	0	05:45 PM
3	2	1	Total
46	31	15	Grand Total
	67.4	32.6	Apprch %
	67.4	32.6	Total %
46	31	15	Pedestrians
100	100	100	% Pedestrians
0	0	0	Bicycles
0	0	0	% Bicycles

	ŀ	Highland Avenue at North Sta	airway	
Start Time	EB	From North WB	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 09:45 AM - Peak 1 of		VVD	Арр. Тотаг	IIIt. Total
Peak Hour for Entire Intersection Begins at 07:00				
07:00 AM	0	0	0	0
07:15 AM	0	2	2	2
07:30 AM	0	1	_ 1	1
07:45 AM	4	0	4	4
Total Volume	4	3	7	7
% App. Total	57.1	42.9		
PHF	.250	.375	.438	.438
Pedestrians	4	3	7	7
% Pedestrians	100	100	100	100
Bicycles	0	0	0	0
% Bicycles	0	0	0	0
Peak Hour Analysis From 10:00 AM to 01:45 PM -	Peak 1 of 1			
Peak Hour for Entire Intersection Begins at 11:00 /	AM			
11:00 AM	0	0	0	0
11:15 AM	0	5	5	5
11:30 AM	0	0	0	0
11:45 AM	4	1	5	5
Total Volume	4	6	10	10
% App. Total	40	60		
PHF	.250	.300	.500	.500
Pedestrians	4	6	10	10
% Pedestrians	100	100	100	100
Bicycles	0	0	0	0
% Bicycles	0	0	0	0



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com File Name: 186604 D Path Site Code: 2017099 Start Date: 11/29/2018

		Highland Avenue at North Sta From North	airway	
Start Time	EB	WB	App. Total	Int. Total
Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of				
Peak Hour for Entire Intersection Begins at 02:30	PM			
02:30 PM	0	4	4	4
02:45 PM	0	1	1	1
03:00 PM	2	1	3	3
03:15 PM	0	1	1	1
Total Volume	2	7	9	9
% App. Total	22.2	77.8		
PHF	.250	.438	.563	.563
Pedestrians	2	7	9	9
% Pedestrians	100	100	100	100
Bicycles	0	0	0	0
% Bicycles	0	0	0	0



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com File Name: 186604 DD Path

Site Code : 2017099 Start Date : 12/1/2018

	Email: datarequests@pdillc.com		
	Groups Printed- Pedestrians - Bio	voles	
	Highland Avenue	at North Stainway	1
Start Time	From EB	WB	Int. Total
Oc.OO AAA			
06:00 AM	0	0	0
06:15 AM	0	0	0
06:30 AM	0	0	0
06:45 AM	0	0	0
Total	0	0	0
			ı
07.00 414	0	0	
07:00 AM	0	0	0
07:15 AM	0	0	0
07:30 AM	0	0	0
	~		
07:4 <u>5</u> AM	0	0	0
Total	0	0	0
			'
00.00	0	0	
08:00 AM	0	0	0
08:15 AM	0	0	0
08:30 AM	0	0	0
08:45 AM			
	0	1	1
Total	0	1	1
09:00 AM	0	0	0
09:15 AM	0	0	0
09:30 AM	0	0	0
09:45 AM	0	0	0
			0
Total	0	0	0
10:00 AM	1	0	1
10:15 AM	0	0	0
10:30 AM	0	2	2
10:45 AM	1	0	1
	<u>'</u>		
Total	2	2	4
11:00 AM	0	0	0
11:15 AM	4		
	I.	1	2
11:30 AM	0	1	1
11:45 AM	0	0	0
		2	
Total	ı	2	3
12:00 PM	0	0	0
12:15 PM	0	0	0
			l control of the cont
12:30 PM	0	0	0
12:45 PM	0	1	1
Total	0	1	
Total	U	ı	1
			1
01:00 PM	0	0	0
01:15 PM	2	2	4
01.101 W			
01:30 PM	0	4	4
01:45 PM	0	0	0
Total	2	6	8
Total	_	· ·	
			I.
02:00 PM	0	0	0
02:15 PM	0	0	0
02:30 PM	4		l .
02:30 PM	1	0	1
02:45 PM	0	0	0
Total	1	0	1
rotar	'	· ·	'
			1
03:00 PM	0	2	2 4
03:15 PM	3	1	4
00.101 W	3		
03:30 PM	1	0	1
03:45 PM	0	1	1
Total	4	4	8
Total	•	•	1



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com File Name: 186604 DD Path

Site Code : 2017099 Start Date : 12/1/2018

Groups Printed- Pedestrians - Bicycles		
Highland Avanua at North Stainway		
EB	WB	Int. Total
0	0	0
0	0	0
0	1	1
0	1	11_
0	2	2
1	0	1
0	0	0
0	0	0
0	0	0
1	0	1
11	18	29
37.9	62.1	
37.9	62.1	
11	18	29
100	100	100
0	0	0
0	0	0
	1 0 0 0 1 1 37.9 37.9 37.9	From North   EB   WB     0

	Highland	Avenue at North Stairway		
Start Time	ЕВ	From North WB	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 09:45 AM - Peak 1 of 1	25	W.B.	7 tpp: 10tar	inc. rotar
Peak Hour for Entire Intersection Begins at 08:00 AM				
08:00 AM	0	0	0	0
08:15 AM	0	0	0	0
08:30 AM	0	0	0	0
08:45 AM	0	1	1	1
Total Volume	0	1	1	1
% App. Total	0	100		
PHF	.000	.250	.250	.250
Pedestrians	0	1	1	1
% Pedestrians	0	100	100	100
Bicycles	0	0	0	0
% Bicycles	0	0	0	0
Peak Hour Analysis From 10:00 AM to 01:45 PM - Pe	eak 1 of 1			
Peak Hour for Entire Intersection Begins at 12:45 PM				
12:45 PM	0	1	1	1
01:00 PM	0	0	0	0
01:15 PM	2	2	4	4
01:30 PM	0	4	4	4
Total Volume	2	7	9	9
% App. Total	22.2	77.8		
PHF	.250	.438	.563	.563
Pedestrians	2	7	9	9
% Pedestrians	100	100	100	100
Bicycles	0	0	0	0
% Bicycles	0	0	0	0



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com File Name: 186604 DD Path

Site Code : 2017099 Start Date : 12/1/2018

	Highland	Avenue at North Stairway From North		
Start Time	EB	WB	App. Total	Int. Total
Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1				
Peak Hour for Entire Intersection Begins at 03:00 PM				
03:00 PM	0	2	2	2
03:15 PM	3	1	4	4
03:30 PM	1	0	1	1
03:45 PM	0	1	1	1
Total Volume	4	4	8	8
% App. Total	50	50		
PHF	.333	.500	.500	.500
Pedestrians	4	4	8	8
% Pedestrians	100	100	100	100
Bicycles	0	0	0	0
% Bicycles	0	0	0	0

Location: N: Warren Street S: Warren Street NE: Harris Avenue

Location: E: Dedham Avenue W: Dedham Avenue

City, State: Needham, MA

Client: GPI/ N.Rogers Site Code: MAX-2017099.1

Count Date: Thursday, November 29, 2018

Start Time: 2:00 PM End Time: 6:00 PM PRECISION D A T A INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

Class:												(	ars an	d Hea	vy Ve	hicles	(Comb	oined	)												_
			Warren	Street				ŀ	Harris A	venue				D	edham	Avenue				٧	Varren	Street				D	edham .	Avenue	9		
			from N	North				fr	rom No	rtheast					from	East					from S	South					from V	Nest			
	Right	Thru	Left	Hard Left	J-Turn	Total	Hard RighBe	ear Righ E	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right B	ear Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn	Total	Tota
2:00 PM	3	4	8	0	0	15	1	10	12	0	0	23	0	6	54	0	0	60	0	22	4	1	0	27	1	62	14	7	0	84	
2:15 PM	5	6	3	0	0	14	0	7	27	0	0	34	0	10	63	2	0	75	1	27	12	0	0	40	3	59	9	1	0	72	
2:30 PM	2	4	2	0	0	8	1	9	26	0	1	37	0	10	58	0	0	68	0	27	7	1	0	35	2	73	14	4	0	93	:
2:45 PM Total	11	21	9	0	0	41	1	21	37 102	0	0	59	0	3	76	2	0	81	0	27	3	0	0	30	4	100 294	26	4	0	134	
	21	35	22	0	0	78	3	47	102	0	1	153	0	29	251	4	0	284	1	103	26	2	0	132	10	294	63	16	0	383	
3:00 PM	8	10	14	1	0	33	2	16	42	0	0	60	0	4	46	0	0	50	0	34	11	3	0	48	2	105	8	3	0	118	
3:15 PM	5	17	1	1	0	24	0	13	30	1	0	44	0	3	66	2	0	71	1	17	5	3	0	26	2	92	11	2	0	107	1
3:30 PM	9	13	5	0	0	27	1	18	19	0	0	38	0	3	55	0	0	58	0	16	4	2	0	22	5	85	10	1	0	101	-
3:45 PM	3	11	4	0	0	18	0	6	25	0	0	31	2	6	63	1	0	72	0	32	8	1	0	41	1	89	15	2	0	107	_
Total	25	51	24	2	0	102	3	53	116	1	0	173	2	16	230	3	0	251	1	99	28	9	0	137	10	371	44	8	0	433	1
4:00 PM	6	8	17	0	0	31	1	16	18	0	0	35	1	7	55	1	0	64	0	21	5	1	0	27	5	113	7	0	0	125	5
4:15 PM	4	9	9	0	0	22	0	6	26	0	0	32	0	3	46	0	0	49	0	14	1	2	0	17	4	91	9	2	0	106	5
4:30 PM	7	13	2	0	0	22	0	11	29	0	0	40	0	3	50	0	0	53	2	23	3	0	0	28	6	82	10	5	0	103	
4:45 PM	8	10	10	0	0	28	0	11	34	0	0	45	1	2	50	1	0	54	0	23	7	1	0	31	9	75	5	4	0	93	
Total	25	40	38	0	0	103	1	44	107	0	0	152	2	15	201	2	0	220	2	81	16	4	0	103	24	361	31	11	0	427	1
5:00 PM	14	22	4	0	0	40	0	9	39	0	0	48	0	3	66	0	0	69	0	29	5	1	0	35	3	97	11	0	0	111	
5:15 PM	9	17	3	0	0	29	1	11	30	0	0	42	1	3	59	1	0	64	0	17	5	1	0	23	2	85	6	2	0	95	1
5:30 PM	6	12	5	0	0	23	0	17	37	0	0	54	1	7	56	0	0	64	1	33	2	1	0	37	5	66	20	4	0	95	ı
5:45 PM	17	8	6	2	0	33	1	23	41	0	0	65	0	6	47	0	0	53	0	32	4	1	0	37	5	70	34	4	0	113	_
Total	46	59	18	2	0	125	2	60	147	0	0	209	2	19	228	1	0	250	1	111	16	4	0	132	15	318	71	10	0	414	1
Grand Total	117	185	102	4	0	408	9	204	472	1	1	687	6	79	910	10	0	1005	5	394	86	19	0	504	59	1344	209	45	0	1657	′ 4
Approach %	28.7	45.3	25.0	1.0	0.0		1.3	29.7	68.7	0.1	0.1		0.6	7.9	90.5	1.0	0.0		1.0	78.2	17.1	3.8	0.0		3.6	81.1	12.6	2.7	0.0		
Total %	2.7	4.3	2.4	0.1	0.0	9.6	0.2	4.8	11.1	0.0	0.0	16.1	0.1	1.9	21.4	0.2	0.0	23.6	0.1	9.2	2.0	0.4	0.0	11.8	1.4	31.5	4.9	1.1	0.0	38.9	
xiting Leg Total						219						614						1452						726						1250	) 4
Cars	115	183	100	3	0	401	8	202	464	1	1	676	6	79	893	9	0	987	5	381	85	17	0	488	59	1309	204	43	0	1615	
% Cars	98.3	98.9	98.0	75.0	0.0	98.3	88.9	99.0	98.3	100.0	100.0	98.4	100.0	100.0	98.1	90.0	0.0	98.2	100.0	96.7	98.8	89.5	0.0	96.8	100.0	97.4	97.6	95.6	0.0	97.5	
xiting Leg Total						215						595						1415						715						1227	
Heavy Vehicles	2	2	2	1	0	7	1	2	8	0	0	11	0	0	17	1	0	18	0	13	1	2	0	16	0	35	5	2	0	42	Г
Heavy Vehicles	1.7	1.1	2.0	25.0	0.0	1.7	11.1	1.0	1.7	0.0	0.0	1.6	0.0	0.0	1.9	10.0	0.0	1.8	0.0	3.3	1.2	10.5	0.0	3.2	0.0	2.6	2.4	4.4	0.0	2.5	-
xiting Leg Total						4						19						37						11						23	

D = = 1, 11 =	A I:-	£	02.00	D11-	00.00	D 8 4	
Peak Hour	Allalvsis	1110111	02:00	PIVI LO	00:00	PIVI	Degins at:

2:45 PM		21 9 0 0 41 1 21 37 0												D	edham	Avenue	9			١	Varren	Street				De	edham	Avenue	2		
			from N	North				1	from No	rtheast					from	East					from S	outh					from \	West			
	Right	Thru	Left	lard Left	U-Turn	Total	Hard RighB	ear Righ	Bear Left	lard Left	J-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right B	ear Righ	Thru	Left	U-Turn	Total	Right	Thru E	Bear Left	Left	U-Turn	Total	Total
2:45 PM	11	21	9	0	0	41	1	21	37	0	0	59	0	3	76	2	0	81	0	27	3	0	0	30	4	100	26	4	0	134	345
3:00 PM	8	10	14	1	0	33	2	16	42	0	0	60	0	4	46	0	0	50	0	34	11	3	0	48	2	105	8	3	0	118	309
3:15 PM	5	17	1	1	0	24	0	13	30	1	0	44	0	3	66	2	0	71	1	17	5	3	0	26	2	92	11	2	0	107	272
3:30 PM	9	13	5	0	0	27	1	18	19	0	0	38	0	3	55	0	0	58	0	16	4	2	0	22	5	85	10	1	0	101	246
Total Volume	33	61	29	2	0	125	4	68	128	1	0	201	0	13	243	4	0	260	1	94	23	8	0	126	13	382	55	10	0	460	1172
% Approach Total	26.4	48.8	23.2	1.6	0.0		2.0	33.8	63.7	0.5	0.0		0.0	5.0	93.5	1.5	0.0		0.8	74.6	18.3	6.3	0.0		2.8	83.0	12.0	2.2	0.0		
PHF	0.750	0.726	0.518	0.500	0.000	0.762	0.500	0.810	0.762	0.250	0.000	0.838	0.000	0.813	0.799	0.500	0.000	0.802	0.250	0.691	0.523	0.667	0.000	0.656	0.650	0.910	0.529	0.625	0.000	0.858	0.849
Cars	32	60	29	1	0	122	4	66	125	1	0	196	0	13	239	4	0	256	1	93	22	8	0	124	13	367	54	9	0	443	1141
Cars %	97.0	98.4	100.0	50.0	0.0	97.6	100.0	97.1	97.7	100.0	0.0	97.5	0.0	100.0	98.4	100.0	0.0	98.5	100.0	98.9	95.7	100.0	0.0	98.4	100.0	96.1	98.2	90.0	0.0	96.3	97.4
Heavy Vehicles	1	1	0	1	0	3	0	2	3	0	0	5	0	0	4	0	0	4	0	1	1	0	0	2	0	15	1	1	0	17	31
Heavy Vehicles %	3.0	1.6	0.0	50.0	0.0	2.4	0.0	2.9	2.3	0.0	0.0	2.5	0.0	0.0	1.6	0.0	0.0	1.5	0.0	1.1	4.3	0.0	0.0	1.6	0.0	3.9	1.8	10.0	0.0	3.7	2.6
Cars Enter Leg	32	60	29	1	0	122	4	66	125	1	0	196	0	13	239	4	0	256	1	93	22	8	0	124	13	367	54	9	0	443	1141
Heavy Enter Leg	1	1	0	1	0	3	0	2	3	0	0	5	0	0	4	0	0	4	0	1	1	0	0	2	0	15	1	1	0	17	31
Total Entering Leg	33	61	29	2	0	125	4	68	128	1	0	201	0	13	243	4	0	260	1	94	23	8	0	126	13	382	55	10	0	460	1172
Cars Exiting Leg Heavy Exiting Leg						48						148						398 15						202						345 7	1141 31
Heavy Exiting Leg						2						3						15						4						7	1

Location: N: Warren Street S: Warren Street NE: Harris Avenue

Location: E: Dedham Avenue W: Dedham Avenue

City, State: Needham, MA

Client: GPI/ N.Rogers Site Code: MAX-2017099.1

Count Date: Thursday, November 29, 2018

Start Time: 2:00 PM End Time: 6:00 PM PRECISION D A T A INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

Cars and Heavy Vehicles (Combined)

Class:					C	ars and Hea	vy Ve	hicles	(Comb	ined	1)												
	١	Warren Street		Harris Avenue		D	edham	Avenu	e			W	/arren	Street				D	edham A	Avenue	2		
		from North		from Northeast			from	East					from S	outh					from V	/est		1	
	Right Thru	Left Hard Left U-Turn	Total	lard Righ Bear Righ Bear Left Hard Left U-Turn To	otal H	lard Right Right	Thru	Left	U-Turn	Total	Right Bea	ar Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn Tota	Tota	:al
Total Exiting Leg		_	50		151					413						206					3	52 11	72

Location: N: Warren Street S: Warren Street NE: Harris Avenue

Location: E: Dedham Avenue W: Dedham Avenue

City, State: Needham, MA

Client: GPI/ N.Rogers
Site Code: MAX-2017099.1

Count Date: Thursday, November 29, 2018

Start Time: 2:00 PM End Time: 6:00 PM

Class:

PRECISION D A T A INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

Cars-Combined (Motorcycles, Cars, Light Goods)

		Warren Street Harris Avenue														Avenue			_	٧	Varren	Street				De	edham .	Avenue	9		
			from N	orth				fr	om No	rtheast					from	East					from	South					from \	Vest			
	Right	Thru	Left H	ard Left	J-Turn	Total	Hard Righ Be	ear Righ E	Bear Left	lard Left U	-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right B	ear Righ	Thru	Left	U-Turn	Total	Right	Thru E	Bear Left	Left	U-Turn	Total	Total
2:00 PM	2	4	8	0	0	14	1	10	12	0	0	23	0	6	51	0	0	57	0	19	4	0	0	23	1	61	12	7	0	81	198
2:15 PM	5	6	2	0	0	13	0	7	25	0	0	32	0	10	59	2	0	71	1	18	12	0	0	31	3	57	9	1	0	70	217
2:30 PM	2	3	2	0	0	7	1	9	26	0	1	37	0	10	57	0	0	67	0	27	7	1	0	35	2	70	13	3	0	88	234
2:45 PM	11	21	9	0	0	41	1	21	37	0	0	59	0	3	76	2	0	81	0	27	3	0	0	30	4	96	25	4	0	129	340
Total	20	34	21	0	0	75	3	47	100	0	1	151	0	29	243	4	0	276	1	91	26	1	0	119	10	284	59	15	0	368	989
3:00 PM	7	10	14	1	0	32	2	15	40	0	0	57	0	4	45	0	0	49	0	34	11	3	0	48	2	100	8	3	0	113	299
3:15 PM	5	17	1	0	0	23	0	13	29	1	0	43	0	3	64	2	0	69	1	16	5	3	0	25	2	90	11	1	0	104	264
3:30 PM	9	12	5	0	0	26	1	17	19	0	0	37	0	3	54	0	0	57	0	16	3	2	0	21	5	81	10	1	0	97	238
3:45 PM	3	11	4	0	0	18	0	6	25	0	0	31	2	6	61	0	0	69	0	32	8	1	0	41	1	88	15	2	0	106	265
Total	24	50	24	1	0	99	3	51	113	1	0	168	2	16	224	2	0	244	1	98	27	9	0	135	10	359	44	7	0	420	1066
4:00 PM	6	8	17	0	0	31	0	16	18	0	0	34	1	7	53	1	0	62	0	21	5	1	0	27	5	108	7	0	0	120	274
4:15 PM	4	9	9	0	0	22	0	6	25	0	0	31	0	3	46	0	0	49	0	14	1	2	0	17	4	91	9	2	0	106	225
4:30 PM	7	13	2	0	0	22	0	11	29	0	0	40	0	3	50	0	0	53	2	23	3	0	0	28	6	79	10	5	0	100	243
4:45 PM	8	10	10	0	0	28	0	11	33	0	0	44	1	2	50	1	0	54	0	23	7	0	0	30	9	75	5	4	0	93	249
Total	25	40	38	0	0	103	0	44	105	0	0	149	2	15	199	2	0	218	2	81	16	3	0	102	24	353	31	11	0	419	991
5:00 PM	14	22	3	0	0	39	0	9	38	0	0	47	0	3	66	0	0	69	0	29	5	1	0	35	3	95	11	0	0	109	299
5:15 PM	9	17	3	0	0	29	1	11	30	0	0	42	1	3	58	1	0	63	0	17	5	1	0	23	2	85	6	2	0	95	252
5:30 PM	6	12	5	0	0	23	0	17	37	0	0	54	1	7	56	0	0	64	1	33	2	1	0	37	5	66	20	4	0	95	273
5:45 PM	17	8	6	2	0	33	1	23	41	0	0	65	0	6	47	0	0	53	0	32	4	1	0	37	5	67	33	4	0	109	
Total	46	59	17	2	0	124	2	60	146	0	0	208	2	19	227	1	0	249	1	111	16	4	0	132	15	313	70	10	0	408	1121
Grand Total	115	183	100	3	0	401	8	202	464	1	1	676	6	79	893	9	0	987	5	381	85	17	0	488	59	1309	204	43	0	1615	4167
Approach %	28.7	45.6	24.9	0.7	0.0	-	1.2	29.9	68.6	0.1	0.1		0.6	8.0	90.5	0.9	0.0		1.0	78.1	17.4	3.5	0.0		3.7	81.1	12.6	2.7	0.0		1
Total %	2.8	4.4	2.4	0.1	0.0	9.6	0.2	4.8	11.1	0.0	0.0	16.2	0.1	1.9	21.4	0.2	0.0	23.7	0.1	9.1	2.0	0.4	0.0	11.7	1.4	31.4	4.9	1.0	0.0	38.8	ĺ
Exiting Leg Total						215			-			595						1415						715						1227	

2:45 PM		1	Warre	n Street					Harris A	venue					Dedham	Avenu	е			1	Warren	Street				0	Dedham	Avenue	<u>;</u>		
			from	North				f	rom No	rtheast					from	East					from 5	South					from \	West			
	Right	Thru	Left	Hard Left	U-Turn	Total	Hard RighB	ear Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right B	ear Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn	Total	Total
2:45 PM	11	21	9	0	0	41	1	21	37	0	0	59	0	3	76	2	0	81	0	27	3	0	0	30	4	96	25	4	0	129	340
3:00 PM	7	10	14	1	0	32	2	15	40	0	0	57	0	4	45	0	0	49	0	34	11	3	0	48	2	100	8	3	0	113	299
3:15 PM	5	17	1	0	0	23	0	13	29	1	0	43	0	3	64	2	0	69	1	16	5	3	0	25	2	90	11	1	0	104	264
3:30 PM	9	12	5	0	0	26	1	17	19	0	0	37	0	3	54	0	0	57	0	16	3	2	0	21	5	81	10	1	0	97	238
Total Volume	32	60	29	1	0	122	4	66	125	1	0	196	0	13	239	4	0	256	1	93	22	8	0	124	13	367	54	9	0	443	1141
% Approach Total	26.2	49.2	23.8	0.8	0.0		2.0	33.7	63.8	0.5	0.0		0.0	5.1	93.4	1.6	0.0		0.8	75.0	17.7	6.5	0.0		2.9	82.8	12.2	2.0	0.0		
PHF	0.727	0.714	0.518	0.250	0.000	0.744	0.500	0.786	0.781	0.250	0.000	0.831	0.000	0.813	0.786	0.500	0.000	0.790	0.250	0.684	0.500	0.667	0.000	0.646	0.650	0.918	0.540	0.563	0.000	0.859	0.839
Fataniantan			20			400			405					4.0	220			25.0							1 40	267		۵			٠
Entering Leg	32	60	29	1	0	122	4	66	125	1	0	196	0	13	239	4	0	256	1	93	22	8	0	124	13	367	54	9	0	443	
Exiting Leg						48						148						398						202						345	1141
Total						170						344						654						326						788	2282

Location: N: Warren Street S: Warren Street NE: Harris Avenue

Location: E: Dedham Avenue W: Dedham Avenue

City, State: Needham, MA

Client: GPI/ N.Rogers Site Code: MAX-2017099.1

Count Date: Thursday, November 29, 2018

Start Time: 2:00 PM End Time: 6:00 PM PRECISION D A T A INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

Class:									He	avy V	ehicle	es-Co	mbined	d (Bus	es, Si	ngle-U	nit Tru	ıcks,	Articul	ated 1	Truck	s)									
		١	Warren	Street				H	larris Av	enue				D	edham	Avenue				١	Warrer	Street				D	edham .	Avenue	!		
			from N	Iorth				fr	om Nor	theast					from	East					from	South					from \	Nest			
	Right	Thru	Left	lard Left (	J-Turn	Total	Hard RighBe	ear Righ B	ear Left Ha	ard Left L	J-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right B	ear Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn	Total	Total
2:00 PM	1	0	0	0	0	1	0	0	0	0	0	0	0	0	3	0	0	3	0	3	0	1	0	4	0	1	2	0	0	3	11
2:15 PM	0	0	1	0	0	1	0	0	2	0	0	2	0	0	4	0	0	4	0	9	0	0	0	9	0	2	0	0	0	2	18
2:30 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	3	1	1	0	5	7
2:45 PM Total	0	0	0	0	0	3	0	0	2	0	0	0	0	0	0	0	0	0 8	0	12	0	0 1	0	13	0	10	1 4	0	0	5 15	5 41
						3		U							0			٩		. 12				13		10				13	
3:00 PM	1	0	0	0	0	1	0	1	2	0	0	3	0	0	1	0	0	1	0	0	0	0	0	0	0	5	0	0	0	5	10
3:15 PM 3:30 PM	0	0	0	1	0	1	0	0	1	0	0	1	0	0	2	0	0	2	0	1	0	0	0	1	0	2	0	1	0	3	8
3:45 PM	0	1 0	0	0 0	0	1	0	0	0	0	0	1	0	0	1	0	0	7	0	0	1	0	0	1	0	4	0	0	0	4	8
Total	1	1	0	1	0	3	0	2	3	0	0	5	0	0	6	1	0	7	0	1	1	0	0	2	0	12	0	1	0	13	30
4:00 PM	<b>I</b> 0	0	0	0	0	0	1	0	0	0	0	1	0	n	2	0	0	اد	0	٥	0	0	0	0	I o	5	0	0	0	5	8
4:15 PM	0	0	0	0	0	0	0	0	1	0	0	1	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	3	0	0	0	3	3
4:45 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2
Total	0	0	0	0	0	0	1	0	2	0	0	3	0	0	2	0	0	2	0	0	0	1	0	1	0	8	0	0	0	8	14
5:00 PM	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	4
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	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	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	3	1	0	0	4	4
Total	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	5	1	0	0	6	9
Grand Total	2	2	2	1	0	7	1	2	8	0	0	11	0	0	17	1	0	18	0	13	1	2	0	16	0	35	5	2	0	42	94
Approach %	28.6	28.6	28.6	14.3	0.0		9.1	18.2	72.7	0.0	0.0		0.0	0.0	94.4	5.6	0.0		0.0	81.3	6.3	12.5	0.0		0.0	83.3	11.9	4.8	0.0		
Total %	2.1	2.1	2.1	1.1	0.0	7.4	1.1	2.1	8.5	0.0	0.0	11.7	0.0	0.0	18.1	1.1	0.0	19.1	0.0	13.8	1.1	2.1	0.0	17.0	0.0	37.2	5.3	2.1	0.0	44.7	
Exiting Leg Total						4						19						37						11						23	94
Buses	1	2	1	0	0	4	0	0	2	0	0	2	0	0	6	0	0	6	0	13	1	0	0	14	0	3	4	1	0	8	34
% Buses	50.0	100.0	50.0	0.0	0.0	57.1	0.0	0.0	25.0	0.0	0.0	18.2	0.0	0.0	35.3	0.0	0.0	33.3	0.0	100.0	100.0	0.0	0.0	87.5	0.0	8.6	80.0	50.0	0.0	19.0	36.2
Exiting Leg Total						2						17						4						4						7	34
Single-Unit Trucks	1	0	1	1	0	3	1	2	5	0	0	8	0	0	10	1	0	11	0	0	0	2	0	2	0	30	1	1	0	32	56
% Single-Unit	50.0	0.0	50.0	100.0	0.0	42.9	100.0	100.0	62.5	0.0	0.0	72.7	0.0	0.0	58.8	100.0	0.0	61.1	0.0	0.0	0.0	100.0	0.0	12.5	0.0	85.7	20.0	50.0	0.0	76.2	59.6
Exiting Leg Total						2						2						31						6						15	56
Articulated Trucks	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	2	0	0	0	2	4
% Articulated	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	0.0	0.0	9.1	0.0	0.0	5.9	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0	0.0	0.0	4.8	4.3
Exiting Leg Total						0						0						2						1						1	4
												Ū													I					-	

2:00 PM			Warrer	n Street					Harris A	Avenue				0	edham	Avenue	e			,	Warren	Street				0	Dedham	Avenue	<b>:</b>		
			from	North				f	rom No	rtheast					from	East					from S	South					from \	West			
	Right	Thru	Left	Hard Left	U-Turn	Total	Hard RighB	ear Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right	Bear Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn	Total	Total
2:00 PM	1	0	0	0	0	1	0	0	0	0	0	0	0	0	3	0	0	3	0	3	0	1	0	4	0	1	2	0	0	3	11
2:15 PM	0	0	1	0	0	1	0	0	2	0	0	2	0	0	4	0	0	4	0	9	0	0	0	9	0	2	0	0	0	2	18
2:30 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	3	1	1	0	5	7
2:45 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	4	1	0	0	5	5
Total Volume	1	1	1	0	0	3	0	0	2	0	0	2	0	0	8	0	0	8	0	12	0	1	0	13	0	10	4	1	0	15	41
% Approach Total	33.3	33.3	33.3	0.0	0.0		0.0	0.0	100.0	0.0	0.0		0.0	0.0	100.0	0.0	0.0		0.0	92.3	0.0	7.7	0.0		0.0	66.7	26.7	6.7	0.0		
PHF	0.250	0.250	0.250	0.000	0.000	0.750	0.000	0.000	0.250	0.000	0.000	0.250	0.000	0.000	0.500	0.000	0.000	0.500	0.000	0.333	0.000	0.250	0.000	0.361	0.000	0.625	0.500	0.250	0.000	0.750	0.569
D	I .																			40				ا م						اء	
Buses	0	1	1	0	0	2	U	0	1	0	U	1	0	0	1	0	0	1	0	12	U	U	0	12	U	1	4	1	U	6	22
Buses %	0.0	100.0	100.0	0.0	0.0	66.7	0.0	0.0	50.0	0.0	0.0	50.0	0.0	0.0	12.5	0.0	0.0	12.5	0.0	100.0	0.0	0.0	0.0	92.3	0.0	10.0	100.0	100.0	0.0	40.0	53.7

Location: N: Warren Street S: Warren Street NE: Harris Avenue

Location: E: Dedham Avenue W: Dedham Avenue

City, State: Needham, MA

Client: GPI/ N.Rogers
Site Code: MAX-2017099.1

PRECISION D A T A INDUSTRIES, LLC

Count Date: Thursday, November 29, 2018

Start Time: 2:00 PM
End Time: 6:00 PM

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

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

														J 1 - 5.5	, -	0 -		· · · ,													
		,	Warre	n Street				ı	Harris A	Avenue				D	edham	Avenu	е				Warren	Street				D	edham	Avenue	3		
			from	North				fı	rom No	ortheast					from	East					from :	South					from \	Nest			
	Right	Thru	Left	Hard Left	U-Turn	Total	Hard RighBe	ear Righ E	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right	Bear Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn	Total	Total
Single-Unit Trucks	1	0	0	0	0	1	0	0	1	0	0	1	0	0	6	0	0	6	0	0	0	1	0	1	0	9	0	0	0	9	18
Single-Unit %	100.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	50.0	0.0	0.0	50.0	0.0	0.0	75.0	0.0	0.0	75.0	0.0	0.0	0.0	100.0	0.0	7.7	0.0	90.0	0.0	0.0	0.0	60.0	43.9
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
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	0.0	0.0	12.5	0.0	0.0	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
Buses	0	1	1	0	0	2	0	0	1	0	0	1	0	0	1	0	0	1	0	12	0	0	0	12	0	1	4	1	0	6	22
Single-Unit Trucks	1	0	0	0	0	1	0	0	1	0	0	1	0	0	6	0	0	6	0	0	0	1	0	1	0	9	0	0	0	9	18
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total Entering Leg	1	1	1	0	0	3	0	0	2	0	0	2	0	0	8	0	0	8	0	12	0	1	0	13	0	10	4	1	0	15	41
Buses	I					1	I					16						2						2						1	22
Single-Unit Trucks						0						0						9						1						8	18
Articulated Trucks						0						0						0						0						1	1
Total Exiting Leg						1						16						11						3						10	41

Location: N: Warren Street S: Warren Street NE: Harris Avenue

Location: E: Dedham Avenue W: Dedham Avenue

City, State: Needham, MA

Client: GPI/ N.Rogers
Site Code: MAX-2017099.1

Count Date: Thursday, November 29, 2018

Start Time: 2:00 PM
End Time: 6:00 PM

Class:

PRECISION D A T A INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

Cars

			Warrei	n Street					Harris A	Avenue				ſ	Dedham	Avenue	9			٧	Varren	Street				[	Dedham /	Avenue	<u>.</u>		l
			from	North				fı	rom No	rtheast					from	East					from	South					from V	Vest			1
	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Righ Be	ar Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right B	ear Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn	Total	Total
2:00 PM	1	4	8	0	0	13	1	10	11	0	0	22	0	5	46	0	0	51	0	17	4	0	0	21	1	48	11	7	0	67	174
2:15 PM	4	5	2	0	0	11	0	7	24	0	0	31	0	9	53	2	0	64	1	17	12	0	0	30	3	46	9	1	0	59	195
2:30 PM	2	2	1	0	0	5	1	9	26	0	1	37	0	9	54	0	0	63	0	24	7	1	0	32	2	61	13	3	0	79	216
2:45 PM	11	20	8	0	0	39	1	21	34	0	0	56	0	2	73	2	0	77	0	27	3	0	0	30	4	87	23	4	0	118	320
Total	18	31	19	0	0	68	3	47	95	0	1	146	0	25	226	4	0	255	1	85	26	1	0	113	10	242	56	15	0	323	905
3:00 PM	6	8	12	1	0	27	2	14	38	0	0	54	0	3	44	0	0	47	0	31	11	3	0	45	2	91	6	3	0	102	275
3:15 PM	5	16	1	0	0	22	0	12	25	0	0	37	0	3	61	2	0	66	1	15	3	3	0	22	2	81	11	1	0	95	242
3:30 PM	9	9	4	0	0	22	1	16	16	0	0	33	0	3	48	0	0	51	0	16	3	2	0	21	5	76	10	1	0	92	219
3:45 PM	3	11	4	0	0	18	0	6	22	0	0	28	2	5	55	0	0	62	0	30	8	1	0	39	1	80	14	2	0	97	244
Total	23	44	21	1	0	89	3	48	101	0	0	152	2	14	208	2	0	226	1	92	25	9	0	127	10	328	41	7	0	386	980
4:00 PM	6	7	16	0	0	29	0	15	18	0	0	33	1	7	51	1	0	60	0	17	5	1	0	23	4	102	7	0	0	113	258
4:15 PM	3	9	9	0	0	21	0	6	24	0	0	30	0	3	44	0	0	47	0	12	1	2	0	15	4	84	9	1	0	98	211
4:30 PM	7	12	2	0	0	21	0	7	28	0	0	35	0	3	48	0	0	51	2	23	2	0	0	27	5	74	9	4	0	92	226
4:45 PM	6	10	9	0	0	25	0	11	30	0	0	41	1	2	50	1	0	54	0	22	7	0	0	29	9	72	4	4	0	89	238
Total	22	38	36	0	0	96	0	39	100	0	0	139	2	15	193	2	0	212	2	74	15	3	0	94	22	332	29	9	0	392	933
5:00 PM	12	21	3	0	0	36	0	9	38	0	0	47	0	3	66	0	0	69	0	29	5	1	0	35	3	88	10	0	0	101	288
5:15 PM	9	17	3	0	0	29	1	11	30	0	0	42	1	3	57	1	0	62	0	17	4	1	0	22	2	82	6	2	0	92	247
5:30 PM	6	12	5	0	0	23	0	17	35	0	0	52	1	7	54	0	0	62	1	32	2	1	0	36	5	65	19	3	0	92	265
5:45 PM	17	8	6	2	0	33	1	23	41	0	0	65	0	6	47	0	0	53	0	32	4	1	0	37	5	65	33	4	0	107	295
Total	44	58	17	2	0	121	2	60	144	0	0	206	2	19	224	1	0	246	1	110	15	4	0	130	15	300	68	9	0	392	1095
Grand Total	107	171	93	3	0	374	8	194	440	0	1	643	6	73	851	9	0	939	5	361	81	17	0	464	57	1202	194	40	0	1493	3913
Approach %	28.6	45.7	24.9	0.8	0.0	3/4	1.2	30.2	68.4	0.0	0.2	043	0.6	7.8	90.6	1.0	0.0	333	1.1	77.8	17.5	3.7	0.0	404	3.8	80.5	13.0	2.7	0.0	1433	3313
Total %	2.7	43.7	24.5	0.8	0.0	9.6	0.2	5.0	11.2	0.0	0.2	16.4			21.7	0.2	0.0	24.0	0.1	9.2	2.1	0.4	0.0	11.9	1.5	30.7	5.0	1.0	0.0	38.2	i
Exiting Leg Total	2.7	4.4	2.4	0.1	0.0	202		5.0	11.2	0.0	0.0	565		1.5	21.7	0.2	0.0	1300	0.1	J.2	2.1	0.4	0.0	677	1.5	30.7	5.0	1.0	0.0	1169	3913
Exiting Ecg Total	ı					202						303	I					1300						3//	ı					1109	3313

5:00 PM		1	Warrei	n Street					Harris A	venue					edham	Avenu	e			1	Warren	Street				0	Dedham	Avenue	<u>;</u>		l
			from	North				f	rom No	rtheast					from	East					from	South					from \	West			l
	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	ear Righ	Bear Left I	lard Left	U-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right B	ear Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn	Total	Total
5:00 PM	12	21	3	0	0	36	0	9	38	0	0	47	0	3	66	0	0	69	0	29	5	1	0	35	3	88	10	0	0	101	288
5:15 PM	9	17	3	0	0	29	1	11	30	0	0	42	1	3	57	1	0	62	0	17	4	1	0	22	2	82	6	2	0	92	247
5:30 PM	6	12	5	0	0	23	0	17	35	0	0	52	1	7	54	0	0	62	1	32	2	1	0	36	5	65	19	3	0	92	265
5:45 PM	17	8	6	2	0	33	1	23	41	0	0	65	0	6	47	0	0	53	0	32	4	1	0	37	5	65	33	4	0	107	295
Total Volume	44	58	17	2	0	121	2	60	144	0	0	206	2	19	224	1	0	246	1	110	15	4	0	130	15	300	68	9	0	392	1095
% Approach Total	36.4	47.9	14.0	1.7	0.0		1.0	29.1	69.9	0.0	0.0		0.8	7.7	91.1	0.4	0.0		0.8	84.6	11.5	3.1	0.0		3.8	76.5	17.3	2.3	0.0		
PHF	0.647	0.690	0.708	0.250	0.000	0.840	0.500	0.652	0.878	0.000	0.000	0.792	0.500	0.679	0.848	0.250	0.000	0.891	0.250	0.859	0.750	1.000	0.000	0.878	0.750	0.852	0.515	0.563	0.000	0.916	0.928
Entering Leg			4-7	2	0	121		60		0	0	200		10	224		0	246		440	4.5		0	420	1 45	200	60	۵	0	202	1005
	44	58	17	2	U	121	2	60	144	U	U	206		19	224	1	U	246	1	110	15	4	0	130	15	300	68	9	U	392	
Exiting Leg						45						182						318						218						332	1095
Total						166						388						564						348						724	2190

Location: N: Warren Street S: Warren Street NE: Harris Avenue

Location: E: Dedham Avenue W: Dedham Avenue

City, State: Needham, MA

Client: GPI/ N.Rogers
Site Code: MAX-2017099.1

Count Date: Thursday, November 29, 2018

Start Time: 2:00 PM
End Time: 6:00 PM

Class:

PRECISION D A T A INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

### **Light Goods Vehicle**

2:00 PM 2:15 PM 2:30 PM 2:45 PM Total	Right 1 1 0 0 2 1		Left Ha  0  0  1		0	Total 1	Hard Righ Be		om Nor ear Left H		I-Turn	Takal			from	Fast					from S	South					from V	Vest			l
2:00 PM 2:15 PM 2:30 PM 2:45 PM Total	1 1 0 0	0 1 1 1	0 0 1 1	0	0	Total 1			ear Left H	ard Left (	I-Turn	Total									110111	Journ									
2:15 PM 2:30 PM 2:45 PM Total		1 1 1	0 1 1	0	0	1	0	0			J . a	Total	lard Righ	Right	Thru	Left	U-Turn	Total	Right Be	ar Righ	Thru	Left	U-Turn	Total	Right	Thru E	Bear Left	Left	U-Turn	Total	Total
2:30 PM 2:45 PM Total		1 1 1 3	0 1 1			2		U	1	0	0	1	0	1	5	0	0	6	0	2	0	0	0	2	0	13	1	0	0	14	24
2:45 PM Total		1 1 3	1	0	_	-	0	0	1	0	0	1	0	1	6	0	0	7	0	1	0	0	0	1	0	11	0	0	0	11	22
Total		3	1		0	2	0	0	0	0	0	0	0	1	3	0	0	4	0	3	0	0	0	3	0	9	0	0	0	9	18
	2	3		0	0	2	0	0	3	0	0	3	0	1	3	0	0	4	0	0	0	0	0	0	0	9	2	0	0	11	20
2 00 014	1		2	0	0	7	0	0	5	0	0	5	0	4	17	0	0	21	0	6	0	0	0	6	0	42	3	0	0	45	84
3:00 PM		2	2	0	0	5	0	1	2	0	0	3	0	1	1	0	0	2	0	3	0	0	0	3	0	9	2	0	0	11	24
3:15 PM	0	1	0	0	0	1	0	1	4	1	0	6	0	0	3	0	0	3	0	1	2	0	0	3	0	9	0	0	0	9	22
3:30 PM	0	3	1	0	0	4	0	1	3	0	0	4	0	0	6	0	0	6	0	0	0	0	0	0	0	5	0	0	0	5	19
3:45 PM	0	0	0	0	0	0	0	0	3	0	0	3	0	1	6	0	0	7	0	2	0	0	0	2	0	8	1	0	0	9	21
Total	1	6	3	0	0	10	0	3	12	1	0	16	0	2	16	0	0	18	0	6	2	0	0	8	0	31	3	0	0	34	86
4:00 PM	0	1	1	0	0	2	0	1	0	0	0	1	0	0	2	0	0	2	0	4	0	0	0	4	1	6	0	0	0	7	16
4:15 PM	1	0	0	0	0	1	0	0	1	0	0	1	0	0	2	0	0	2	0	2	0	0	0	2	0	7	0	1	0	8	14
4:30 PM	0	1	0	0	0	1	0	4	1	0	0	5	0	0	2	0	0	2	0	0	1	0	0	1	1	5	1	1	0	8	17
4:45 PM	2	0	1	0	0	3	0	0	3	0	0	3	0	0	0	0	0	0	0	1	0	0	0	1	0	3	1	0	0	4	11
Total	3	2	2	0	0	7	0	5	5	0	0	10	0	0	6	0	0	6	0	7	1	0	0	8	2	21	2	2	0	27	58
5:00 PM	2	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1	0	0	8	11
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1	0	3	0	0	0	3	5
5:30 PM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	2	0	0	2	0	1	0	0	0	1	0	1	1	1	0	3	8
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	2	0	0	0	2	2
Total	2	1	0	0	0	3	0	0	2	0	0	2	0	0	3	0	0	3	0	1	1	0	0	2	0	13	2	1	0	16	26
Grand Total	8	12	7	0	0	27	0	8	24	1	0	33	0	6	42	0	0	48	0	20	4	0	0	24	2	107	10	3	0	122	254
Approach %	29.6	44.4	25.9	0.0	0.0		0.0	24.2	72.7	3.0	0.0		0.0	12.5	87.5	0.0	0.0		0.0	83.3	16.7	0.0	0.0		1.6	87.7	8.2	2.5	0.0		l
Total %	3.1	4.7	2.8	0.0	0.0	10.6	0.0	3.1	9.4	0.4	0.0	13.0	0.0	2.4	16.5	0.0	0.0	18.9	0.0	7.9	1.6	0.0	0.0	9.4	0.8	42.1	3.9	1.2	0.0	48.0	l
Exiting Leg Total						13						30						115						38						58	254

3:00 PM		,	Warrei	n Street					Harris A	venue					Dedham	Avenu	е			1	Warrer	Street				[	Dedham	Avenu	е		1
			from	North				f	rom No	rtheast					from	East					from	South					from \	West			l
	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	ear Righ	Bear Left I	Hard Left	U-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right B	ear Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn	Total	Total
3:00 PM	1	2	2	0	0	5	0	1	2	0	0	3	0	1	1	0	0	2	0	3	0	0	0	3	0	9	2	0	0	11	24
3:15 PM	0	1	0	0	0	1	0	1	4	1	0	6	0	0	3	0	0	3	0	1	2	0	0	3	0	9	0	0	0	9	22
3:30 PM	0	3	1	0	0	4	0	1	3	0	0	4	0	0	6	0	0	6	0	0	0	0	0	0	0	5	0	0	0	5	19
3:45 PM	0	0	0	0	0	0	0	0	3	0	0	3	0	1	6	0	0	7	0	2	0	0	0	2	0	8	1	0	0	9	21
Total Volume	1	6	3	0	0	10	0	3	12	1	0	16	0	2	16	0	0	18	0	6	2	0	0	8	0	31	3	0	0	34	86
% Approach Total	10.0	60.0	30.0	0.0	0.0		0.0	18.8	75.0	6.3	0.0		0.0	11.1	88.9	0.0	0.0		0.0	75.0	25.0	0.0	0.0		0.0	91.2	8.8	0.0	0.0		<u></u>
PHF	0.250	0.500	0.375	0.000	0.000	0.500	0.000	0.750	0.750	0.250	0.000	0.667	0.000	0.500	0.667	0.000	0.000	0.643	0.000	0.500	0.250	0.000	0.000	0.667	0.000	0.861	0.375	0.000	0.000	0.773	0.896
Fatorianton		_							4.0									4.0	۱ .	_						24				2.4	
Entering Leg	1	6	3	0	0	10	Ü	3	12	1	U	16	0	2	16	0	0	18	0	6	2	U	0	8	0	31	3	0	0	34	86
Exiting Leg						4						9						35						18						20	86
Total						14						25						53						26						54	172

Location: N: Warren Street S: Warren Street NE: Harris Avenue

Location: E: Dedham Avenue W: Dedham Avenue

City, State: Needham, MA

Client: GPI/ N.Rogers
Site Code: MAX-2017099.1

Count Date: Thursday, November 29, 2018

Start Time: 2:00 PM
End Time: 6:00 PM

Class:

PRECISION D A T A INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

#### Buses

			Warre	n Stree	t			H	Harris A	venue					Dedham	Avenu	e				Warre	Street				[	Dedham	Avenu	e		
			from	North				fr	om No	rtheast					from	East					from	South					from \	West			
	Right	Thru	Left	Hard Lef	t U-Turn	Total	Hard RightBe	ar Righ B	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right B	ear Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn	Total	Total
2:00 PM	0	0	0	C	) (	) (	0	0	0	0	0	(	0	C	1	0	0	1	0	3	0	0	0	3	0	0	2	0	0	2	6
2:15 PM	0	0	1	C	) (	) 1	0	0	1	0	0	1	. 0	C	0	0	0	0	0	9	0	0	0	9	0	0	0	0	0	0	11
2:30 PM	0	1	0	C	) (	) 1	0	0	0	0	0	(	0	C	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	3
2:45 PM	0	0	0	C	) (	) (	0	0	0	0	0	C	0	C	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	2
Total	0	1	1	C	) (	) 2	0	0	1	0	0	1	. 0	C	1	0	0	1	0	12	0	0	0	12	0	1	4	1	0	6	22
3:00 PM	1	0	0	C	) (	) 1	0	0	1	0	0	1	. 0	C	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3
3:15 PM	0	0	0	C	) (	) (	0	0	0	0	0	(	0	C	1	0	0	1	0	1	0	0	0	1	. 0	0	0	0	0	0	2
3:30 PM	0	1	0	C	) (	) 1	0	0	0	0	0	(	0	C	1	0	0	1	0	0	1	0	0	1	. 0	1	0	0	0	1	4
3:45 PM	0	0	0	C	) (	) (	0	0	0	0	0	(	0	C	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	1	1	0	C	) (	) 2	0	0	1	0	0	1	. 0	C	4	0	0	4	0	1	1	0	0	2	. 0	1	0	0	0	1	10
4:00 PM	0	0	0	C	) (	) (	0	0	0	0	0	(	0	C	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
4:15 PM	0	0	0	C	) (	) (	0	0	0	0	0	(	0	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	C	) (	) (	0	0	0	0	0	C	0	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	C	) (	) (	0	0	0	0	0	(	0	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	C	) (	) (	0	0	0	0	0	C	0	C	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
5:00 PM	0	0	0	C	) (	) (	0	0	0	0	0	C	0	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	C	) (	) (	0	0	0	0	0	(	0	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	C	) (	) (	0	0	0	0	0	(	0	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	C	) (	) (	0	0	0	0	0	(	0	C	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
Total	0	0	0	C	) (	) (	0	0	0	0	0	(	0	C	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
	Ī																														
Grand Total	1	2	1	C	) (	) 4	0	0	2	0	0	2	0	C	6	0	0	6	0	13	1	0	0	14	0	3	4	1	0	8	34
Approach %	25.0	50.0	25.0	0.0	0.0	)	0.0	0.0	100.0	0.0	0.0		0.0	0.0	100.0	0.0	0.0		0.0	92.9	7.1	0.0	0.0		0.0	37.5	50.0	12.5	0.0		
Total %	2.9	5.9	2.9	0.0	0.0	11.8	0.0	0.0	5.9	0.0	0.0	5.9	0.0	0.0	17.6	0.0	0.0	17.6	0.0	38.2	2.9	0.0	0.0	41.2	0.0	8.8	11.8	2.9	0.0	23.5	
Exiting Leg Total						2						17						4						4						7	34

2:00 PM		,	Warre	n Street					Harris A	Avenue					edham	Avenu	е			,	Warren	Street				[	Dedham	Avenue	9		
			from	North				f	from No	rtheast					from	East					from	South					from \	West			
	Right	Thru	Left	Hard Left	U-Turn	Total	Hard RighB	ear Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right B	Bear Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn	Total	Total
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	3	0	0	0	3	0	0	2	0	0	2	6
2:15 PM	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	9	0	0	0	9	0	0	0	0	0	0	11
2:30 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	3
2:45 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	1	1	0	0	2	2
Total Volume	0	1	1	0	0	2	0	0	1	0	0	1	0	0	1	0	0	1	0	12	0	0	0	12	0	1	4	1	0	6	22
% Approach Total	0.0	50.0	50.0	0.0	0.0		0.0	0.0	100.0	0.0	0.0		0.0	0.0	100.0	0.0	0.0		0.0	100.0	0.0	0.0	0.0		0.0	16.7	66.7	16.7	0.0		
PHF	0.000	0.250	0.250	0.000	0.000	0.500	0.000	0.000	0.250	0.000	0.000	0.250	0.000	0.000	0.250	0.000	0.000	0.250	0.000	0.333	0.000	0.000	0.000	0.333	0.000	0.250	0.500	0.250	0.000	0.750	0.500
Entering Leg	0	1	1	0	0	2	0	0	1	0	0	1	0	0	1	0	0	1	0	12	0	0	0	12	0	1	4	1	0	6	22
Exiting Leg						1						16						2						2						1	22
Total						3						17						3						14						7	44

Location: N: Warren Street S: Warren Street NE: Harris Avenue

Location: E: Dedham Avenue W: Dedham Avenue

City, State: Needham, MA

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Single-Unit Trucks

Ciass.														3111	BIC OI		CKS														
			Warren	Street				ı	Harris A	venue					Dedham	Avenu	e			٧	Narrer	n Street				С	edham	Avenu	e		
			from N	North				fı	rom No	rtheast					from	East					from	South					from	West			
	Right	Thru	Left	Hard Left	U-Turn	Total	Hard RighB	ear Righ E	Bear Left	Hard Left	J-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right Be	ear Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn	Total	Total
2:00 PM	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	0	1	0	0	0	1	4
2:15 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	4	0	0	4	0	0	0	0	0	0	0	2	0	0	0	2	7
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	3	0	0	0	3	4
2:45 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	3	0	0	0	3	3
Total	1	0	0	0	0	1	0	0	1	0	0	1	0	0	6	0	0	6	0	0	0	1	0	1	0	9	0	0	0	9	18
3:00 PM	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	5	7
3:15 PM	0	0	0	1	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	2	0	1	0	3	6
3:30 PM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	4
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	1	0	0	0	1	3
Total	0	0	0	1	0	1	0	2	2	0	0	4	0	0	2	1	0	3	0	0	0	0	0	0	0	11	0	1	0	12	20
4:00 PM	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	5	0	0	0	5	7
4:15 PM	0	0	0	0	0	0	0	0	1	0	0	1	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	2	0	0	0	2	2
4:45 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2
Total	0	0	0	0	0	0	1	0	2	0	0	3	0	0	1	0	0	1	0	0	0	1	0	1	0	7	0	0	0	7	12
5:00 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	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	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	2	1	0	0	3	3
Total	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	3	1	0	0	4	6
						i							ı						Ī												
Grand Total	1	0	1	1	0	3	1	2	5	0	0	8	0	0	10	1	0	11	0	0	0	2	0	2	0	30	1	1	0	32	56
Approach %	33.3	0.0	33.3	33.3	0.0		12.5	25.0	62.5	0.0	0.0		0.0	0.0		9.1	0.0		0.0	0.0	0.0		0.0		0.0	93.8	3.1	3.1	0.0		
Total %	1.8	0.0	1.8	1.8	0.0	5.4	1.8	3.6	8.9	0.0	0.0	14.3	0.0	0.0	17.9	1.8	0.0	19.6	0.0	0.0	0.0	3.6	0.0	3.6	0.0	53.6	1.8	1.8	0.0	57.1	
Exiting Leg Total						2						2						31						6						15	56
	•						•						-						_						•						•

2:15 PM			Warre	n Street					Harris A	Avenue					edham	Avenu	е			,	Warren	Street				[	Dedham	Avenue	9		
			from	North				f	rom No	ortheast					from	East					from	South					from	West			
	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	ear Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right	Bear Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn	Total	Total
2:15 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	4	0	0	4	0	0	0	0	0	0	0	2	0	0	0	2	7
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	3	0	0	0	3	4
2:45 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	3	0	0	0	3	3
3:00 PM	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	5	7
Total Volume	0	0	0	0	0	0	0	1	2	0	0	3	0	0	5	0	0	5	0	0	0	0	0	0	0	13	0	0	0	13	21
% Approach Total	0.0	0.0	0.0	0.0	0.0		0.0	33.3	66.7	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	100.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.500	0.000	0.000	0.375	0.000	0.000	0.313	0.000	0.000	0.313	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.650	0.000	0.000	0.000	0.650	0.750
Entering Leg	0	0	0	0	0	0	0	1	2	0	0	3	0	0	5	0	0	5	0	0	0	0	0	0	0	13	0	0	0	13	21
Exiting Leg						0						0						13						2						6	21
Total						0						3						18						2						19	42

Location: N: Warren Street S: Warren Street NE: Harris Avenue

Location: E: Dedham Avenue W: Dedham Avenue

City, State: Needham, MA

Client: GPI/ N.Rogers
Site Code: MAX-2017099.1

Count Date: Thursday, November 29, 2018

Start Time: 2:00 PM End Time: 6:00 PM

Class:

PRECISION D A T A INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

#### **Articulated Trucks**

			Warren	Street				ı	Harris A	venue					edham	Avenu	e			V	/arren	Street				D	edham	Avenue	e		1
			from N	North				f	rom Nor	theast					from	East					from	South					from \	Vest			<u> </u>
	Right	Thru	Left	lard Left	U-Turn	Total	Hard Righ Be	ear Righ	Bear Left H	ard Left (	J-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right Be	ar Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn	Total	Total
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
2:15 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	0	0
2:30 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	0	0
2:45 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	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
3:00 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	0	0
3:15 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	0	0
3:30 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	0	0
3:45 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	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
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	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	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	1	0	0	0	1	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	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	1	0	0	0	1	1
5:00 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2
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	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	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	0	0
Total	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2
																			1												
Grand Total	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	2	0	0	0	2	4
Approach %	0.0	0.0	0.0	0.0	0.0		0.0	0.0	100.0	0.0	0.0		0.0	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0	0.0	I	
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	0.0	0.0	25.0	0.0	0.0	25.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	50.0	<u> </u>
Exiting Leg Total						0						0						2						1						1	4

4:15 PM			Warre	n Stree	t				Harris A	Avenue				[	Dedham	Avenu	e			,	Warren	Street				[	Dedham	Avenue	e		
			from	North				f	from No	rtheast					from	East					from	South					from	West			
	Right	Thru	Left	Hard Lef	t U-Turn	Total	Hard RighB	ear Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right B	Bear Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn	Total	Total
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	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	1	0	0	0	1	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	0	0
5:00 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2
Total Volume	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	3
% Approach Total	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		0.0	0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	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	0.500	0.000	0.000	0.000	0.500	0.375
Entering Leg	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	3
Exiting Leg						0						0						2						1						0	3
Total						0						1						2						1						2	6

Location: N: Warren Street S: Warren Street NE: Harris Avenue

Location: E: Dedham Avenue W: Dedham Avenue

City, State: Needham, MA

Client: GPI/ N.Rogers Site Code: MAX-2017099.1

Count Date: Thursday, November 29, 2018

Start Time: 2:00 PM End Time: 6:00 PM

PRECISION D A T A INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

Class:																		В	Bicy	cles	(on	Roa	adw	ay a	and	Cro	ssw	vall	ks)																_	
				Wa	rren	Stree	et						На	arris	Aven	ue						Dec	dham	ı Ave	nue						W	arren	Stre	et					De	edha	m Av	/enue	9			
				fro	om N	lorth							fro	m No	orthe	ast							from	East	:						f	rom S	South							fron	n We	est				
	Right	Thru	Le	eft Ha	ırd Left	U-Turn	CW-EB	CW-W	VB Tota	l Haro	Righ Bea	ar Righ	Bear Left	Hard Left	U-Turn	CW-SEI	CW-NV	VB Tota	tal H	ard Righ	Right	Thru	Left	U-Turn	CW-S	B CW-	-NB To	otal	Right B	ear Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Bear Lef	ft Left	U-Tu	urn CW	-NB CV	V-SB To	al T	otal
2:00 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	0	0	0	0	0	)	0	0	0	0	0	0
2:15 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	0	0	0	1	C	)	0	0	0	0	1	1
2:30 PM	0		0	0	0	0	0		2	2	0	0	0	0	0	(	)	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	C	)	0	0	0	1	1	4
2:45 PM	0		0	0	0	0	0		2	2	0	0	0	0	0	(	)	0	0	0	0	0	0	0		2	0	2	0	1	0	0	0	0	0	1	0	0	С	)	0	0	1	0	1	6
Total	0		0	0	0	0	0		4	4	0	0	0	0	0	(	)	0	0	0	0	0	0	0		3	0	3	0	1	0	0	0	0	0	1	0	1	0	)	0	0	1	1	3	11
3:00 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	0	0	0	0	0	)	0	0	0	0	0	0
3:15 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	0	0	0	0	0	)	0	0	0	0	0	0
3:30 PM	0		0	0	0	0	0		0	0	0	0	1	0	0	(	)	0	1	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
3:45 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	1	0	1	0	0	0	)	0	0	0	0	0	1
Total	0		0	0	0	0	0		0	0	0	0	1	0	0	(	)	0	1	0	0	0	0	0		0	0	0	0	0	0	0	0	1	0	1	0	0	0	)	0	0	0	0	0	2
4:00 PM	0		0	0	0	0	0		0	0	0	1	0	0	0	(	)	0	1	0	0	0	0	0		0	0	0	0	1	0	0	0	0	0	1	0	0	0	)	0	0	0	0	0	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	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	1		1	2	0	0	0	0	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	1	2	4
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	0	0	0	0	0	)	0	0	0	0	0	0
Total	0		0	0	0	0	1		1	2	0	1	0	0	0	(	)	0	1	0	0	0	0	0		0	0	0	0	1	0	0	0	0	0	1	0	0	0	)	0	0	1	1	2	6
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	0	0	0	0	C	)	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	0	0	0	0	C	)	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	0	0	0	0	C	)	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	0	0	0	0	С	)	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
Grand Total	0		0	0	0	0	1		5	6	0	1	1	0	0	(	)	0	2	0	0	0	0	0		3	0	3	0	2	0	0	0	1	0	3	0	1	C	)	0	0	2	2	5	19
Approach %	0.0	0	0	0.0	0.0	0.0	16.7	83	1.3		0.0	50.0	50.0	0.0	0.0	0.0	0	0		0.0	0.0	0.0	0.0	0.0	100	.0	0.0		0.0	66.7	0.0	0.0	0.0	33.3	0.0		0.0	20.0	0.0	0.	0 (	0.0 4	0.0	40.0		
Total %	0.0				0.0	0.0			i.3 31			5.3	5.3	0.0	0.0	-			0.5	0.0	0.0	0.0	0.0		15		0.0 1	15.8		10.5	0.0	0.0		5.3		15.8		5.3						10.5 2	6.3	
Exiting Leg Total										6									2									4								2									5	19

2:00 PM			,	War	ren S	Stree	t						Har	ris A	venu	e					D	edha	am A	ven	ue						War	ren :	Stree	t						Ded	ham	Aven	ue				
				fro	m N	orth							fron	n Noi	rthea	st						fro	om E	ast							fro	m So	outh							fı	om \	Vest					
	Right	Thru	Left	t Har	d Left U	J-Turn	CW-EB	CW-WB	Total	Hard Ri	gh Bear R	igh Bear	r Left Ha	rd Left	U-Turn	CW-SEB	CW-NWB	Total	Hard Righ	Right	Thru	Le	eft U-	-Turn	CW-SB	CW-NB	Total	Right	Bear Ri	ight Thr	u L	eft L	I-Turn (	W-WB	CW-EB	Total	Right	Th	ıru Be	ear Left	Left	U-Turn	CW-NB	CW-SB	Total	Total	
2:00 PM	0	0		0	0	0	0	0		) (	0	0	0	0	0	0	0	C	0	C	) (	)	0	0	0	0	0	0	)	0	0	0	0	0	0	0	) (	)	0	0	0	0	0	0	0	0	
2:15 PM	0	0		0	0	0	0	0		) (	0	0	0	0	0	0	0	C	0	C	) (	)	0	0	0	0	0	0	)	0	0	0	0	0	0	0	) (	)	1	0	0	0	0	0	1	1	
2:30 PM	0	0		0	0	0	0	2	. 2		0	0	0	0	0	0	0	0	0	C	) (	)	0	0	1	0	1		)	0	0	0	0	0	0	0	) (	)	0	0	0	0	0	1	1	4	
2:45 PM	0	0		0	0	0	0	2	. 2	2	0	0	0	0	0	0	0	C	0	C	) (	)	0	0	2	0	2		)	1	0	0	0	0	0	1	. (	)	0	0	0	0	1	0	1	6	
Total Volume	0	0		0	0	0	0	4	. 4	l (	0	0	0	0	0	0	0	C	0	C	) (	)	0	0	3	0	3	C	)	1	0	0	0	0	0	1	. (	)	1	0	0	0	1	1	3	11	
% Approach Total	0.0	0.0	0	0.0	0.0	0.0	0.0	100.0	ı	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	100	.0 0	0.0	0.0	0.0	0.0	0.0		0.	0 3	13.3	0.0	0.0	0.0	33.3	33.3			
PHF	0.000	0.000	0.00	00 0.	.000	0.000	0.000	0.500	0.500	0.00	0.0	00 0.	.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.0	000 0	0.000	0.375	0.000	0.375	0.000	0.25	50 0.0	00 0	.000	0.000	0.000	0.000	0.250	0.00	0 0.:	250 (	0.000	0.000	0.000	0.250	0.250	0.750	0.458	
Entering Leg	0	0		0	0	0	0	4	. 4		0	0	0	0	0	0	0	C	0	C	) (	)	0	0	3	0	3	0	)	1	0	0	0	0	0	1	. (	)	1	0	0	0	1	1	3	11	
Exiting Leg									4	ı								1									4	ı								0	)								2	11	
Total									8	3								1									7									1									5	22	

Location: N: Warren Street S: Warren Street NE: Harris Avenue

Location: E: Dedham Avenue W: Dedham Avenue

City, State: Needham, MA

Client: GPI/ N.Rogers
Site Code: MAX-2017099.1

Count Date: Thursday, November 29, 2018

Start Time: 2:00 PM
End Time: 6:00 PM

Class:

PRECISION D A T A INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

### **Pedestrians**

0.033.																												_																						-	
				Wa	rren	Stre	et							Ha	ırris	Ave	enue	:						D	edh	am /	Aven	ue						Wa	arren	Stre	et						D	edh	nam A	Aver	nue				
				fr	om N	North	h							fro	m N	ortl	neas	t							fro	om E	ast							fı	om S	Sout	า							fro	om V	Nest					
	Right	Thr	L	eft Ha	ard Left	U-Turn	CW-E	в си	/-WB	Total	Hard R	igh Bear	Righ Be	ar Left	Hard Let	ft U-Ti	urn C	W-SEB	CW-NW	Total	al Ha	ard Righ	Right	Thru	Le	eft L	J-Turn	CW-SB	CW-N	B Tota	al R	ight Bea	ar Right	Thru	Left	U-Turn	CW-W	B CW	-EB To	otal	Right	Thru	Bear Le	Left L	Left L	U-Turn	CW-NB	CW-SB	Total	Tot	tal
2:00 PM	C		0	0	0	0		0	1	1		0	0	0	C	)	0	0	0	1	0	0	0	(	0	0	0	0	(	)	0	0	0	0	0	0	(	)	0	0	0	0		0	0	0	0	3	3		4
2:15 PM	C		0	0	0	0		0	0	0		0	0	0	C	)	0	1	0		1	0	0	(	0	0	0	1	:	1	2	0	0	0	0	0	(	)	0	0	0	0	, .	0	0	0	0	0	, 0		3
2:30 PM	C		0	0	0	0		1	5	6		0	0	0	C	)	0	1	8		9	0	0	(	0	0	0	20	(	) 2	20	0	0	0	0	0	4	4	0	4	0	0	,	0	0	0	0	0	0		39
2:45 PM	C		0	0	0	0		0	5	5		0	0	0	C	)	0	0	1		1	0	0	(	0	0	0	3	:	1	4	0	0	0	0	0	(	)	0	0	0	0	,	0	0	0	0	2	. 2		12
Total	C		0	0	0	0		1	11	12		0	0	0	C	)	0	2	9	1	11	0	0	(	0	0	0	24		2 2	26	0	0	0	0	0	4	4	0	4	0	0		0	0	0	0	5	. 5		58
3:00 PM	0		0	0	0	0		0	2	2		0	0	0	C	)	0	0	0		0	0	0	(	0	0	0	12	(	) 1	2	0	0	0	0	0	!	5	0	5	0	0	,	0	0	0	0	0	0	I	19
3:15 PM	C		0	0	0	0		0	0	0		0	0	0	C	)	0	0	2		2	0	0	(	0	0	0	3	(	)	3	0	0	0	0	0	:	1	0	1	0	0	, 1	0	0	0	0	0	, 0		6
3:30 PM	C		0	0	0	0		0	0	0		0	0	0	C	)	0	0	0		0	0	0	(	0	0	0	3	(	)	3	0	0	0	0	0	(	)	0	0	0	0		0	0	0	0	0	, 0		3
3:45 PM	C		0	0	0	0		0	0	0		0	0	0	C	)	0	0	0		0	0	0	(	0	0	0	1	(	)	1	0	0	0	0	0	(	)	0	0	0	0	,	0	0	0	0	0	0		1
Total	C		0	0	0	0		0	2	2		0	0	0	C	)	0	0	2		2	0	0	(	0	0	0	19	(	) 1	.9	0	0	0	0	0	(	5	0	6	0	0		0	0	0	0	0	0		29
4:00 PM	C		0	0	0	0		1	0	1		0	0	0	C	)	0	1	0		1	0	0	(	0	0	0	1	(	)	1	0	0	0	0	0	(	)	0	0	0	0	,	0	0	0	0	1	. 1		4
4:15 PM	C		0	0	0	0		1	1	2		0	0	0	C	)	0	0	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
4:30 PM	C		0	0	0	0		0	0	0		0	0	0	C	)	0	0	0		0	0	0	(	0	0	0	0	(	)	0	0	0	0	0	0	(	)	0	0	0	0		0	0	0	1	0	/ 1		1
4:45 PM	C		0	0	0	0		0	0	0		0	0	0	C	)	0	0	0	1	0	0	0	(	0	0	0	1	(	)	1	0	0	0	0	0	(	)	0	0	0	0		0	0	0	0	0	, 0		1
Total	C		0	0	0	0		2	1	3		0	0	0	C	)	0	1	0	1	1	0	0	(	0	0	0	2	(	)	2	0	0	0	0	0	(	)	0	0	0	0		0	0	0	1	1	. 2		8
5:00 PM	0		0	0	0	0		1	0	1		0	0	0	C	)	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	0	, 1	I	2
5:15 PM	C		0	0	0	0		0	0	0		0	0	0	C	)	0	0	0		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	C		0	0	0	0		0	0	0		0	0	0	C	)	0	0	0		0	0	0	(	0	0	0	0		1	1	0	0	0	0	0	(	)	0	0	0	0		0	0	0	0	0	0		1
5:45 PM	C		0	0	0	0		0	0	0		0	0	0	C	)	0	0	0	1	0	0	0	(	0	0	0	1	(	)	1	0	0	0	0	0	(	)	0	0	0	0		0	0	0	0	0	0		1
Total	C		0	0	0	0		1	0	1		0	0	0	C	)	0	0	0	1	0	0	0	(	0	0	0	1		1	2	0	0	0	0	0	(	)	0	0	0	0		0	0	0	1	0	1		4
																					1										1									1									I	I	
Grand Total	C		0	0	0	0		4	14	18		0	0	0	C	)	0	3	11	. 1	L4	0	0	(	0	0	0	46		3 4	19	0	0	0	0	0	10	)	0	10	0	0		0	0	0	2	6	. 8		99
Approach %	C		0	0	0	0	22.	2 7	7.8			0	0	0	C	)	0 2	1.4	78.6			0	0	(	0	0	0	93.9	6.1	2		0	0	0	0	0	100	)	0		0	0		0	0	0	25	75	,		
Total %	C		0	0	0	0	4.0	4 1	4.1	18.2		0	0	0	C	)	0 3	3.03	11.1	14	.1	0	0	(	0	0	0	46.5	3.0	3 49.	.5	0	0	0	0	0	10.3	1	0 10	0.1	0	0		0	0	0	2.02	6.06	8.08		
Exiting Leg Total										18										1	14									4	19									10									8		99

2:30 PM			V	Varre	n Str	reet						H	arris ,	Aveni	ue					D	edh	am A	ven	ue					٧	Varre	en St	reet							Dedl	nam /	Aven	ue				
				from	Nor	th						fro	m No	orthe	ast						fro	om E	ast							fron	ı Soı	uth							fr	om V	Vest					1
	Right	Thru	Left	Hard Le	ft U-Tur	rn CV	V-EB C	w-wB	Total	lard Righ B	ear Righ	Bear Left	Hard Left	U-Turn	CW-SEB	CW-NW	/B Total	Hard Rig	h Right	Thru	ı Le	eft U	-Turn	CW-SB	CW-NB	Total	Right	Bear Right	Thru	Left	U-T	urn CV	/-WB	CW-EB	Total	Right	Thr	u Bea	ır Left	Left (	J-Turn	CW-NB	CW-SB	Total	Total	
2:30 PM	0	0	0	(	)	0	1	5	6	0	0	0	0	0	1	8	3 9	9 (	) (	)	0	0	0	20	0	20	0	0	C	) (	0	0	4	0	4	. (	)	0	0	0	0	0	0	0	39	,
2:45 PM	0	0	0	(	)	0	0	5	5	0	0	0	0	0	0	1	1 :	1 (	) (	)	0	0	0	3	1	4	0	0	C	) (	0	0	0	0	0	(	)	0	0	0	0	0	2	2	12	
3:00 PM	0	0	0	(	)	0	0	2	2	0	0	0	0	0	0	(	) (	0 (	) (	)	0	0	0	12	0	12	0	0	C	)	0	0	5	0	5	(	)	0	0	0	0	0	0	0	19	,
3:15 PM	0	0	0	(	)	0	0	0	0	0	0	0	0	0	0	2	2 2	2 (	) (	)	0	0	0	3	0	3	0	0	C	) (	0	0	1	0	1	. (	)	0	0	0	0	0	0	0	6	,
Total Volume	0	0	0	(	)	0	1	12	13	0	0	0	0	0	1	1:	1 12	2 (	) (	)	0	0	0	38	1	39	0	0	C	) (	0	0	10	0	10	(	)	0	0	0	0	0	2	2	76	,
% Approach Total	0.0	0.0	0.0	0.0	0 0	.0	7.7	92.3		0.0	0.0	0.0	0.0	0.0	8.3	91.	7	0.	0.0	0 0	.0	0.0	0.0	97.4	2.6		0.0	0.0	0.0	0.	.0	0.0 1	0.00	0.0		0.0	) (	0.0	0.0	0.0	0.0	0.0	100.0			_
PHF	0.000	0.000	0.000	0.00	0.00	00 0.	.250	0.600	0.542	0.000	0.000	0.000	0.000	0.000	0.250	0.34	4 0.33	3 0.00	0.000	0.00	00 0.0	000 (	0.000	0.475	0.250	0.488	0.000	0.000	0.000	0.00	0.0	000 0	.500	0.000	0.500	0.00	0.0	00 0	.000	0.000	0.000	0.000	0.250	0.250	0.487	-
Entering Leg	0	0	0	(	)	0	1	12	13	0	0	0	0	0	1	1:	1 12	2 (	) (	)	0	0	0	38	1	39	0	0	C	)	0	0	10	0	10	(	)	0	0	0	0	0	2	2	76	j
Exiting Leg									13								12	2								39									10									2	76	,
Total									26								24	4								78									20									4	152	

Location: N: Greendale Avenue S: Greendale Avenue

W: Grosvenor Road Location: City, State: Needham, MA Client: **GPI/ N.Rogers** Site Code: MAX-2017099.1

Count Date: Thursday, November 29, 2018

7:00 AM Start Time: End Time: 11:00 AM



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

Class:				1	Cars and I	Heavy Ve	hicles (Co	mbined)					
		Greendale	e Avenue			Greendal	e Avenue			Grosven	or Road		
		from N	lorth			from	South			from '	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	1	34	0	35	90	1	0	91	3	1	0	4	130
7:15 AM	2	36	0	38	104	3	0	107	4	3	0	7	152
7:30 AM	4	48	0	52	129	5	0	134	5	3	0	8	194
7:45 AM	5	43	0	48	160	3	0	163	11	3	0	14	225
Total	12	161	0	173	483	12	0	495	23	10	0	33	701
8:00 AM	9	61	0	70	170	7	0	177	7	7	0	14	261
8:15 AM	2	56	0	58	143	2	0	145	9	4	0	13	216
8:30 AM	5	37	0	42	134	5	0	139	0	3	0	3	184
8:45 AM	1	38	0	39	128	1	0	129	2	5	0	7	175
Total	17	192	0	209	575	15	0	590	18	19	0	37	836
9:00 AM	3	39	0	42	74	2	0	76	3	3	0	6	124
9:15 AM	5	31	0	36	67	1	0	68	1	3	0	4	108
9:30 AM	0	43	0	43	58	4	0	62	2	2	0	4	109
9:45 AM	3	35	0	38	41	4	1	46	2	0	0	2	86
Total	11	148	0	159	240	11	1	252	8	8	0	16	427
10:00 AM	1	28	0	29	47	1	0	48	1	2	0	3	80
10:15 AM	2	26	0	28	59	2	0	61	3	0	0	3	92
10:30 AM	1	38	0	39	34	5	0	39	2	0	0	2	80
10:45 AM	0	22	0	22	36	2	0	38	7	1	0	8	68
Total	4	114	0	118	176	10	0	186	13	3	0	16	320
Grand Total	44	615	0	659	1474	48	1	1523	62	40	0	102	2284
Approach %	6.7	93.3	0.0		96.8	3.2	0.1		60.8	39.2	0.0		
Total %	1.9	26.9	0.0	28.9	64.5	2.1	0.0	66.7	2.7	1.8	0.0	4.5	
Exiting Leg Total				1514				678				92	2284
Cars	44	584	0	628	1438	45	1	1484	62	39	0	101	2213
% Cars	100.0	95.0	0.0	95.3	97.6	93.8	100.0	97.4	100.0	97.5	0.0	99.0	96.9
Exiting Leg Total				1477				647				89	2213
Heavy Vehicles	0	31	0	31	36	3	0	39	0	1	0	1	71
% Heavy Vehicles	0.0	5.0	0.0	4.7	2.4	6.3	0.0	2.6	0.0	2.5	0.0	1.0	3.1
Exiting Leg Total				37				31				3	71

7:30 AM		Greendale	e Avenue			Greendal	e Avenue			Grosven	or Road		
		from I	North			from	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:30 AM	4	48	0	52	129	5	0	134	5	3	0	8	194
7:45 AM	5	43	0	48	160	3	0	163	11	3	0	14	225
8:00 AM	9	61	0	70	170	7	0	177	7	7	0	14	261
8:15 AM	2	56	0	58	143	2	0	145	9	4	0	13	216
Total Volume	20	208	0	228	602	17	0	619	32	17	0	49	896
% Approach Total	8.8	91.2	0.0		97.3	2.7	0.0		65.3	34.7	0.0		I
PHF	0.556	0.852	0.000	0.814	0.885	0.607	0.000	0.874	0.727	0.607	0.000	0.875	0.858
Cars	20	197	0	217	587	17	0	604	32	16	0	48	869
Cars %	100.0	94.7	0.0	95.2	97.5	100.0	0.0	97.6		94.1	0.0	98.0	97.0
Heavy Vehicles	0	11	0.0	11	15	0.00	0.0	15	0	1	0.0	1	27
Heavy Vehicles %	0.0	5.3	0.0	4.8	2.5	0.0	0.0	2.4		5.9	0.0	2.0	3.0
Cars Enter Leg	20	197	0	217	587	17	0	604	32	16	0	48	869
Heavy Enter Leg	0	11	0	11	15	0	0	15		1	0	1	27
Total Entering Leg	20	208	0	228	602	17	0	619	32	17	0	49	896
Cars Exiting Leg				603				229				37	869
Heavy Exiting Leg				16				11				0	27
Total Exiting Leg				619				240				37	896

Location: N: Greendale Avenue S: Greendale Avenue

Location: W: Grosvenor Road
City, State: Needham, MA
Client: GPI/ N.Rogers

Client: **GPI/ N.Rogers**Site Code: **MAX-2017099.1** 

Count Date: Thursday, November 29, 2018

Start Time: **7:00 AM**End Time: **11:00 AM** 

Class:



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

**Cars-Combined (Motorcycles, Cars, Light Goods)** 

		Greendale	Avenue			Greendal	e Avenue			Grosven	or Road		
		from N	lorth			from	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
1	1	33	0	34	88	1	0	89	3	1	0	4	12
1	2	35	0	37	99	3	0	102	4	3	0	7	14
1	4	45	0	49	121	5	0	126	5	3	0	8	18
1	5	42	0	47	157	3	0	160	11	3	0	14	22
	12	155	0	167	465	12	0	477	23	10	0	33	67
1	9	57	0	66	166	7	0	173	7	6	0	13	25
1	2	53	0	55	143	2	0	145	9	4	0	13	21
1	5	36	0	41	133	4	0	137	0	3	0	3	18
1	1	37	0	38	127	1	0	128	2	5	0	7	17
	17	183	0	200	569	14	0	583	18	18	0	36	83
1	3	37	0	40	73	2	0	75	3	3	0	6	12
1	5	28	0	33	65	0	0	65	1	3	0	4	10
1	0	40	0	40	53	4	0	57	2	2	0	4	10
1	3	34	0	37	41	3	1	45	2	0	0	2	8
	11	139	0	150	232	9	1	242	8	8	0	16	40
1	1	27	0	28	46	1	0	47	1	2	0	3	:
1	2	24	0	26	58	2	0	60	3	0	0	3	8
1	1	36	0	37	32	5	0	37	2	0	0	2	
1	0	20	0	20	36	2	0	38	7	1	0	8	(
	4	107	0	111	172	10	0	182	13	3	0	16	30
ı <b>I</b>	44	584	0	628	1438	45	1	1484	62	39	0	101	22
6	7.0	93.0	0.0	020	96.9	3.0	0.1	1.0.	61.4	38.6	0.0	101	
6	2.0	26.4	0.0	28.4	65.0	2.0	0.0	67.1	2.8	1.8	0.0	4.6	
ıl				1477				647				89	221

7:30 AM		Greendal	e Avenue			Greendal	e Avenue			Grosven	or Road		
		from	North			from	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:30 AM	4	45	0	49	121	5	0	126	5	3	0	8	183
7:45 AM	5	42	0	47	157	3	0	160	11	3	0	14	221
8:00 AM	9	57	0	66	166	7	0	173	7	6	0	13	252
8:15 AM	2	53	0	55	143	2	0	145	9	4	0	13	213
Total Volume	20	197	0	217	587	17	0	604	32	16	0	48	869
% Approach Total	9.2	90.8	0.0		97.2	2.8	0.0		66.7	33.3	0.0		
PHF	0.556	0.864	0.000	0.822	0.884	0.607	0.000	0.873	0.727	0.667	0.000	0.857	0.862
Entering Leg	20	197	0	217	587	17	0	604	32	16	0	48	869
Exiting Leg				603				229				37	869
Total				820				833				85	1738

N: Greendale Avenue S: Greendale Avenue Location:

W: Grosvenor Road Location: City, State: Needham, MA **GPI/ N.Rogers** Client:

MAX-2017099.1 Site Code: Count Date: Thursday, November 29, 2018

7:00 AM Start Time: End Time: 11:00 AM



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

Class:			Heavy Ve	hicles-Co	mbined (	Buses, Si	ngle-Unit	Trucks, A	rticulated	Trucks)			
		Greendal	e Avenue			Greendal	e Avenue			Grosven	or Road		
		from	North			from	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	0	1	0	1	2	0	0	2	0	0	0	0	3
7:15 AM	0	1	0	1	5	0	0	5	0	0	0	0	6
7:30 AM	0	3	0	3	8	0	0	8	0	0	0	0	11
7:45 AM	0	1	0	1	3	0	0	3	0	0	0	0	4
Total	0	6	0	6	18	0	0	18	0	0	0	0	24
8:00 AM	0	4	0	4	4	0	0	4	0	1	0	1	9
8:15 AM	0	3	0	3	0	0	0	0	0	0	0	0	3
8:30 AM	0	1	0	1	1	1	0	2	0	0	0	0	3
8:45 AM Total	0	9	0	9	1 6	0 1	0	1	0	0 1	0	0	<u>2</u> 17
					!			7				1	
9:00 AM	0	2	0	2	1	0	0	1	0	0	0	0	3
9:15 AM	0	3	0	3	2	1	0	3	0	0	0	0	6
9:30 AM 9:45 AM	0	3	0	3	5	0	0	5	0	0	0	0	8
7:45 AM	0	9	0	9	0	2	0	10	0	0	0	0	<u>2</u> 19
	! ·		U	اد	0		U	10	U	U	U	۰Į	19
10:00 AM	0	1	0	1	1	0	0	1	0	0	0	0	2
10:15 AM	0	2	0	2	1	0	0	1	0	0	0	0	3
10:30 AM	0	2	0	2	2	0	0	2	0	0	0	0	4
10:45 AM Total	0	7	0	7	0	0	0	0 4	0	0	0	0	<u>2</u> 11
	!				4					U		٩	
Grand Total	0	31	0	31	36	3	0	39	0	1	0	1	71
Approach %	0.0	100.0	0.0		92.3	7.7	0.0		0.0	100.0	0.0		
Total %	0.0	43.7	0.0	43.7	50.7	4.2	0.0	54.9	0.0	1.4	0.0	1.4	
Exiting Leg Total	l,			37				31				3	71
Buses	0	4	0	4	8	0	0	8	0	1	0	1	13
% Buses	0.0	12.9	0.0	12.9	22.2	0.0	0.0	20.5	0.0	100.0	0.0	100.0	18.3
Exiting Leg Total				9				4				0	13
Single-Unit Trucks	0	25	0	25	24	3	0	27	0	0	0	0	52
% Single-Unit	0.0	80.6	0.0	80.6	66.7	100.0	0.0	69.2	0.0	0.0	0.0	0.0	73.2
Exiting Leg Total				24				25				3	52
Articulated Trucks	0	2	0	2	4	0	0	4	0	0	0	0	6
% Articulated	0.0	6.5	0.0	6.5	11.1	0.0	0.0	10.3	0.0	0.0	0.0	0.0	8.5
Exiting Leg Total				4				2				0	6

r cak riour Analysis iroi	11 07 .00 7 (14)	.0 11.00 / 111	n begins at.										i
7:15 AM		Greendale	e Avenue			Greendal	e Avenue			Grosven	or Road		
		from I	North			from	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:15 AM	0	1	0	1	5	0	0	5	0	0	0	0	6
7:30 AM	0	3	0	3	8	0	0	8	0	0	0	0	11
7:45 AM	0	1	0	1	3	0	0	3	0	0	0	0	4
8:00 AM	0	4	0	4	4	0	0	4	0	1	0	1	9
Total Volume	0	9	0	9	20	0	0	20	0	1	0	1	30
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.000	0.563	0.000	0.563	0.625	0.000	0.000	0.625	0.000	0.250	0.000	0.250	0.682
Buses	0	2	0	2	5	0	0	5	0	1	0	1	8
Buses %	0.0	22.2	0.0	22.2	25.0	0.0	0.0	25.0	0.0	100.0	0.0	100.0	26.7
Single-Unit Trucks	0	7	0	7	12	0	0	12	0	0	0	0	19
Single-Unit %	0.0	77.8	0.0	77.8	60.0	0.0	0.0	60.0	0.0	0.0	0.0	0.0	63.3
Articulated Trucks	0	0	0	0	3	0	0	3	0	0	0	0	3
Articulated %	0.0	0.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	10.0
Buses	0	2	0	2	5	0	0	5	0	1	0	1	8
Single-Unit Trucks	0	7	0	7	12	0	0	12	0	0	0	0	19
Articulated Trucks	0	0	0	0	3	0	0	3	0	0	0	0	3
Total Entering Leg	0	9	0	9	20	0	0	20	0	1	0	1	30

N: Greendale Avenue S: Greendale Avenue Location:

W: Grosvenor Road Location: City, State: Needham, MA **GPI/ N.Rogers** 

Client: MAX-2017099.1 Site Code:

Count Date: Thursday, November 29, 2018

Start Time: 7:00 AM End Time: 11:00 AM



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

Class:			Heavy Ve	ehicles-Co	mbined	(Buses, Si	ngle-Unit	Trucks, A	rticulate	d Trucks)			
		Greenda	le Avenue			Greenda	le Avenue			Grosver	nor Road		
		from	North			from	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
Buses				6				2				0	8
Single-Unit Trucks				12				7				0	19
Articulated Trucks				3				0				0	3
Total Exiting Leg				21		•		9			•	0	30

Location: N: Greendale Avenue S: Greendale Avenue

Location: W: Grosvenor Road
City, State: Needham, MA
Client: GPI/ N.Rogers

Client: **GPI/ N.Rogers**Site Code: **MAX-2017099.1** 

Count Date: Thursday, November 29, 2018

Start Time: **7:00 AM**End Time: **11:00 AM** 

Class:



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

Cars

		Greendal	e Avenue			Greendal	e Avenue			Grosven	or Road		ı
		from I	North			from	South			from	West		Ì
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	1	30	0	31	76	1	0	77	3	1	0	4	112
7:15 AM	2	33	0	35	91	3	0	94	4	3	0	7	136
7:30 AM	4	42	0	46	110	5	0	115	5	3	0	8	169
7:45 AM	4	38	0	42	147	3	0	150	11	3	0	14	206
Total	11	143	0	154	424	12	0	436	23	10	0	33	623
8:00 AM	9	54	0	63	161	7	0	168	6	6	0	12	243
8:15 AM	2	48	0	50	136	2	0	138	9	4	0	13	201
8:30 AM	3	33	0	36	126	4	0	130	0	2	0	2	168
8:45 AM	1	32	0	33	118	1	0	119	2	5	0	7	159
Total	15	167	0	182	541	14	0	555	17	17	0	34	771
9:00 AM	2	33	0	35	60	2	0	62	3	3	0	6	103
9:15 AM	5	24	0	29	60	0	0	60	1	3	0	4	93
9:30 AM	0	34	0	34	49	3	0	52	2	2	0	4	90
9:45 AM	3	29	0	32	36	3	1	40	2	0	0	2	74
Total	10	120	0	130	205	8	1	214	8	8	0	16	360
10:00 AM	1	25	0	26	40	1	0	41	1	1	0	2	69
10:15 AM	2	22	0	24	49	2	0	51	2	0	0	2	77
10:30 AM	1	32	0	33	28	4	0	32	1	0	0	1	66
10:45 AM	0	18	0	18	30	2	0	32	7	1	0	8	58
Total	4	97	0	101	147	9	0	156	11	2	0	13	270
Grand Total	40	527	0	567	1317	43	1	1361	59	37	0	96	2024
Approach %	7.1	92.9	0.0		96.8	3.2	0.1		61.5	38.5	0.0		•
Total %	2.0	26.0	0.0	28.0	65.1	2.1	0.0	67.2	2.9	1.8	0.0	4.7	
Exiting Leg Total				1354				587				83	2024

7:30 AM		Greendal	e Avenue			Greendal	e Avenue			Grosven	or Road		
		from	North			from	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:30 AM	4	42	0	46	110	5	0	115	5	3	0	8	169
7:45 AM	4	38	0	42	147	3	0	150	11	3	0	14	206
8:00 AM	9	54	0	63	161	7	0	168	6	6	0	12	243
8:15 AM	2	48	0	50	136	2	0	138	9	4	0	13	201
Total Volume	19	182	0	201	554	17	0	571	31	16	0	47	819
% Approach Total	9.5	90.5	0.0		97.0	3.0	0.0		66.0	34.0	0.0		
PHF	0.528	0.843	0.000	0.798	0.860	0.607	0.000	0.850	0.705	0.667	0.000	0.839	0.843
Entering Leg	19	182	0	201	554	17	0	571	31	16	0	47	819
Exiting Leg				570				213				36	819
Total				771				784				83	1638

Location: N: Greendale Avenue S: Greendale Avenue

Location: W: Grosvenor Road
City, State: Needham, MA
Client: GPI/ N.Rogers

Client: **GPI/ N.Rogers**Site Code: **MAX-2017099.1** 

Count Date: Thursday, November 29, 2018

Start Time: **7:00 AM**End Time: **11:00 AM** 

Class:

PRECISION D A T A INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

# **Light Goods Vehicle**

		Greendale	e Avenue			Greendal	e Avenue			Grosven	or Road		
		from N	North			from	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	0	3	0	3	12	0	0	12	0	0	0	0	15
7:15 AM	0	2	0	2	8	0	0	8	0	0	0	0	10
7:30 AM	0	3	0	3	11	0	0	11	0	0	0	0	14
7:45 AM	1	4	0	5	10	0	0	10	0	0	0	0	15
Total	1	12	0	13	41	0	0	41	0	0	0	0	54
8:00 AM	0	3	0	3	5	0	0	5	1	0	0	1	9
8:15 AM	0	5	0	5	7	0	0	7	0	0	0	0	12
8:30 AM	2	3	0	5	7	0	0	7	0	1	0	1	13
8:45 AM	0	5	0	5	9	0	0	9	0	0	0	0	14
Total	2	16	0	18	28	0	0	28	1	1	0	2	48
9:00 AM	1	4	0	5	13	0	0	13	0	0	0	0	18
9:15 AM	0	4	0	4	5	0	0	5	0	0	0	0	9
9:30 AM	0	6	0	6	4	1	0	5	0	0	0	0	11
9:45 AM	0	5	0	5	5	0	0	5	0	0	0	0	10
Total	1	19	0	20	27	1	0	28	0	0	0	0	48
10:00 AM	0	2	0	2	6	0	0	6	0	1	0	1	9
10:15 AM	0	2	0	2	9	0	0	9	1	0	0	1	12
10:30 AM	0	4	0	4	4	1	0	5	1	0	0	1	10
10:45 AM	0	2	0	2	6	0	0	6	0	0	0	0	8
Total	0	10	0	10	25	1	0	26	2	1	0	3	39
Grand Total	4	57	0	61	121	2	0	123	3	2	0	5	189
Approach %	6.6	93.4	0.0	0.1	98.4	1.6	0.0		60.0	40.0	0.0	Ĭ	
Total %	2.1	30.2	0.0	32.3	64.0	1.1	0.0	65.1	1.6	1.1	0.0	2.6	
Exiting Leg Total				123				60				6	189

8:15 AM		Greendal	e Avenue			Greendale	e Avenue			Grosven	or Road		
		from	North			from :	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
8:15 AM	0	5	0	5	7	0	0	7	0	0	0	0	12
8:30 AM	2	3	0	5	7	0	0	7	0	1	0	1	13
8:45 AM	0	5	0	5	9	0	0	9	0	0	0	0	14
9:00 AM	1	4	0	5	13	0	0	13	0	0	0	0	18
Total Volume	3	17	0	20	36	0	0	36	0	1	0	1	57
% Approach Total	15.0	85.0	0.0		100.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.375	0.850	0.000	1.000	0.692	0.000	0.000	0.692	0.000	0.250	0.000	0.250	0.792
Entering Leg	3	17	0	20	36	0	0	36	0	1	0	1	57
Exiting Leg				37				17				3	57
Total				57				53				4	114

Location: N: Greendale Avenue S: Greendale Avenue

Location: W: Grosvenor Road
City, State: Needham, MA
Client: GPI/ N.Rogers

Client: **GPI/ N.Rogers**Site Code: **MAX-2017099.1** 

Count Date: Thursday, November 29, 2018

Start Time: **7:00 AM**End Time: **11:00 AM** 



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

**Buses** 

Class:

		Greendale	e Avenue			Greendal	e Avenue			Grosven	or Road		
		from N	North			from	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	0	1	0	1	2	0	0	2	0	0	0	0	3
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	4	0	0	4	0	0	0	0	4
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	1	6	0	0	6	0	0	0	0	7
8:00 AM	0	2	0	2	1	0	0	1	0	1	0	1	4
8:15 AM	0	1	0	1	0	0	0	0	0	0	0	0	1
8:30 AM	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
Total	0	3	0	3	1	0	0	1	0	1	0	1	5
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	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
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	1	0	0	1	0	0	0	0	1
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	1	0	0	1	0	0	0	0	1
Grand Total	0	4	0	4	8	0	0	8	0	1	0	1	13
Approach %	0.0	100.0	0.0		100.0	0.0	0.0		0.0	100.0	0.0		
Total %	0.0	30.8	0.0	30.8	61.5	0.0	0.0	61.5	0.0	7.7	0.0	7.7	
Exiting Leg Total				9				4				0	13

7:30 AM		Greendal	e Avenue			Greendal	e Avenue			Grosver	or Road		
		from I	North			from	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:30 AM	0	0	0	0	4	0	0	4	0	0	0	0	4
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	2	0	2	1	0	0	1	0	1	0	1	4
8:15 AM	0	1	0	1	0	0	0	0	0	0	0	0	1
Total Volume	0	3	0	3	5	0	0	5	0	1	0	1	9
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.000	0.375	0.000	0.375	0.313	0.000	0.000	0.313	0.000	0.250	0.000	0.250	0.563
Entering Leg	0	3	0	3	5	0	0	5	0	1	0	1	9
Exiting Leg	0	3	Ü	6	3	Ü	O	3	0		O	0	9
Total				0				9				1	18
TOTAL				9				8				1	18

Location: N: Greendale Avenue S: Greendale Avenue

Location: W: Grosvenor Road
City, State: Needham, MA
Client: GPI/ N.Rogers
Site Code: MAX-2017099.1

Count Date: Thursday, November 29, 2018

Start Time: **7:00 AM**End Time: **11:00 AM** 

Class:



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

# **Single-Unit Trucks**

0.000.													
		Greendal	e Avenue			Greendal	e Avenue			Grosven	or Road		
•		from I	North			from	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	C
7:15 AM	0	1	0	1	3	0	0	3	0	0	0	0	4
7:30 AM	0	3	0	3	3	0	0	3	0	0	0	0	6
7:45 AM	0	1	0	1	3	0	0	3	0	0	0	0	4
Total	0	5	0	5	9	0	0	9	0	0	0	0	14
8:00 AM	0	2	0	2	3	0	0	3	0	0	0	0	5
8:15 AM	0	2	0	2	0	0	0	0	0	0	0	0	2
8:30 AM	0	1	0	1	1	1	0	2	0	0	0	0	3
8:45 AM	0	1	0	1	1	0	0	1	0	0	0	0	2
Total	0	6	0	6	5	1	0	6	0	0	0	0	12
9:00 AM	0	2	0	2	1	0	0	1	0	0	0	0	3
9:15 AM	0	3	0	3	2	1	0	3	0	0	0	0	6
9:30 AM	0	2	0	2	5	0	0	5	0	0	0	0	7
9:45 AM	0	1	0	1	0	1	0	1	0	0	0	0	2
Total	0	8	0	8	8	2	0	10	0	0	0	0	18
10:00 AM	0	1	0	1	0	0	0	0	0	0	0	0	1
10:15 AM	0	1	0	1	1	0	0	1	0	0	0	0	2
10:30 AM	0	2	0	2	1	0	0	1	0	0	0	0	3
10:45 AM	0	2	0	2	0	0	0	0	0	0	0	0	2
Total	0	6	0	6	2	0	0	2	0	0	0	0	8
Grand Total	0	25	0	25	24	3	0	27	0	0	0	0	52
				23				2/				· ·	32
Approach %	0.0	100.0	0.0		88.9	11.1	0.0		0.0	0.0	0.0		
Total %	0.0	48.1	0.0	48.1	46.2	5.8	0.0	51.9	0.0	0.0	0.0	0.0	
Exiting Leg Total				24				25				3	52

· .													
7:15 AM		Greendale	e Avenue			Greendal	e Avenue			Grosver	or Road		
		from I	North			from	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:15 AM	0	1	0	1	3	0	0	3	0	0	0	0	4
7:30 AM	0	3	0	3	3	0	0	3	0	0	0	0	6
7:45 AM	0	1	0	1	3	0	0	3	0	0	0	0	4
8:00 AM	0	2	0	2	3	0	0	3	0	0	0	0	5
Total Volume	0	7	0	7	12	0	0	12	0	0	0	0	19
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.583	0.000	0.583	1.000	0.000	0.000	1.000	0.000	0.000	0.000	0.000	0.792
		_		7	۰							ء ا	
Entering Leg	0	/	0	/	12	0	0	12	0	0	0	0	19
Exiting Leg				12				7				0	19
Total				19				19				0	38

Location: N: Greendale Avenue S: Greendale Avenue

Location: W: Grosvenor Road
City, State: Needham, MA
Client: GPI/ N.Rogers

Site Code: MAX-2017099.1
Count Date: Thursday, November 29, 2018

Start Time: **7:00 AM**End Time: **11:00 AM** 

Class:



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

# **Articulated Trucks**

		Greendale	e Avenue			Greendal	e Avenue			Grosven	or Road		
		from N	North			from	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	2	0	0	2	0	0	0	0	2
7:30 AM	0	0	0	0	1	0	0	1	0	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	3	0	0	3	0	0	0	0	3
8:00 AM	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
8:30 AM	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
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	1	0	1	0	0	0	0	0	0	0	0	1
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	1	0	0	0	0	0	0	0	0	1
10:00 AM	0	0	0	0	1	0	0	1	0	0	0	0	1
10:15 AM	0	1	0	1	0	0	0	0	0	0	0	0	1
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	1	1	0	0	1	0	0	0	0	2
Grand Total	0	2	0	2	4	0	0	4	0	0	0	o	6
Approach %	0.0	100.0	0.0	[	100.0	0.0	0.0	]	0.0	0.0	0.0	Ĭ	Ü
Total %	0.0	33.3	0.0	33.3	66.7	0.0	0.0	66.7	0.0	0.0	0.0	0.0	
Exiting Leg Total				4				2				0	6

7:00 AM		Greendale	e Avenue			Greendal	e Avenue			Grosven	or Road		
		from I	North			from	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	2	0	0	2	0	0	0	0	2
7:30 AM	0	0	0	0	1	0	0	1	0	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	3	0	0	3	0	0	0	0	3
% Approach Total	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	0.375	0.000	0.000	0.375	0.000	0.000	0.000	0.000	0.375
Entering Leg	0	0	0	0	3	0	0	3	0	0	0	0	3
Exiting Leg				3				0				0	3
Total				3				3				0	6

N: Greendale Avenue S: Greendale Avenue Location:

W: Grosvenor Road Location: City, State: Needham, MA Client: **GPI/ N.Rogers** 

MAX-2017099.1 Site Code:

Count Date: Thursday, November 29, 2018

7:00 AM Start Time: End Time: 11:00 AM



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

Class:							Bicycle	es (on I	Roadw	ay and	Cross	walks)							
		G	reendal	e Avenu	е			G	ireendal	e Avenu	е				Grosver	or Road			
			from	North					from	South					from	West			
•	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	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	1	0	0	0	0	1	0	0	0	0	0	0	1
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	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1
8:00 AM	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
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	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	1	0	0	0	1	0	0	0	0	0	0	_	0	0	0	0	0	1
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0		0	0
Total	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
10:00 AM	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	-	0	0	0	0	0		0	0	0	0	0	0
Total	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
Grand Total	0	5	0	0	0	5	1	0	0	0	0	1	0	0	0	0	0	0	6
Approach %	0.0	100.0	0.0	0.0			100.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		
Total %	0.0	83.3	0.0	0.0		83.3	16.7	0.0	0.0	0.0	0.0	16.7	0.0	0.0	0.0	0.0		0.0	
Exiting Leg Total						1						5						0	6

																			-
9:15 AM	Greendale Avenue from North						Greendale Avenue from South						Grosvenor Road from West						1
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
9:15 AM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 AM	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
Total Volume	0	5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
% Approach Total	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		
PHF	0.000	0.313	0.000	0.000	0.000	0.313	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.313
Entering Leg	0	5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
Exiting Leg						0						5						0	5
Total						5						5						0	10

Location: N: Greendale Avenue S: Greendale Avenue

Location: W: Grosvenor Road
City, State: Needham, MA
Client: GPI/ N.Rogers

Site Code: MAX-2017099.1

Count Date: Thursday, November 29, 2018

Start Time: 7:00 AM
End Time: 11:00 AM

Class:



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

## **Pedestrians**

		G	ireendal	e Avenu	е			G	reendal	e Avenue	e				Grosven	or Road			
			from	North					from	South					from	West			
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	4	4
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	8	8
8:00 AM	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	5	0	5	7
8:15 AM	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	2	1	3	5
8:30 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	2	0	2	3
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3
Total	0	0	0	0	0	0	0	0	0	5	0	5	0	0	0	9	4	13	18
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	4
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	2	2	3
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2
Total	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	2	2	4	5
													1						
Grand Total	0	0	0	0	0	0	0	0	0	6	0	6	0	0	0	16	13	29	35
Approach %	0	0	0	0	0		0	0	0	100	0		0	0	0	55.172	44.828		
Total %	0	0	0	0	0	0	0	0	0	17.143	0	17.143	0	0	0	45.714	37.143	82.857	
Exiting Leg Total						0						6						29	35

8:00 AM		G	ireendal	e Avenu	е			G	reendal	e Avenu	e				Grosver	or Road			
			from I	North					from S	South					from	West			
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
8:00 AM	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	5	0	5	7
8:15 AM	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	2	1	3	5
8:30 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	2	0	2	3
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3
Total Volume	0	0	0	0	0	0	0	0	0	5	0	5	0	0	0	9	4	13	18
% Approach Total	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	69.2	30.8		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.625	0.000	0.625	0.000	0.000	0.000	0.450	0.333	0.650	0.643
Entering Leg	0	0	0	0	0	0	0	0	0	5	0	5	0	0	0	9	4	13	18
Exiting Leg						0						5						13	18
Total						0						10						26	36

Location: N: Greendale Avenue S: Greendale Avenue

W: Grosvenor Road Location: City, State: Needham, MA Client: **GPI/ N.Rogers** 

Site Code: MAX-2017099.1

Count Date: Thursday, November 29, 2018

2:00 PM Start Time: End Time: 6:00 PM



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

Class:				(	Cars and H	eavy ve	hicles (Co	mbinea)					
		Greendale	e Avenue			Greendal	e Avenue			Grosven	or Road		
		from N	North			from	South			from '	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
2:00 PM	3	42	1	46	37	6	0	43	2	2	0	4	g
2:15 PM	6	44	0	50	49	3	0	52	1	4	0	5	10
2:30 PM	2	54	0	56	60	2	0	62	3	9	0	12	13
2:45 PM	12	121	0	133	35	5	0	40	17	7	0	24	19
Total	23	261	1	285	181	16	0	197	23	22	0	45	52
3:00 PM	4	107	0	111	53	1	0	54	8	4	0	12	17
3:15 PM	1	142	0	143	50	0	0	50	1	1	0	2	19
3:30 PM	1	175	0	176	46	4	0	50	1	3	0	4	23
3:45 PM	5	186	0	191	46	4	0	50	10	1	0	11	25
Total	11	610	0	621	195	9	0	204	20	9	0	29	8!
4:00 PM	1	237	0	238	35	1	0	36	4	3	0	7	28
4:15 PM	6	198	0	204	37	4	0	41	3	0	0	3	2
4:30 PM	1	142	0	143	38	3	0	41	3	2	0	5	18
4:45 PM	4	147	0	151	35	6	0	41	5	2	0	7	19
Total	12	724	0	736	145	14	0	159	15	7	0	22	9:
5:00 PM	3	156	0	159	31	3	0	34	1	4	0	5	19
5:15 PM	6	149	0	155	52	1	0	53	1	2	0	3	2
5:30 PM	5	166	0	171	53	1	0	54	0	1	0	1	2
5:45 PM	4	112	0	116	47	5	0	52	1	1	0	2	17
Total	18	583	0	601	183	10	0	193	3	8	0	11	8
Grand Total	64	2178	1	2243	704	49	0	753	61	46	0	107	31
Approach %	2.9	97.1	0.0		93.5	6.5	0.0		57.0	43.0	0.0		
Total %	2.1	70.2	0.0	72.3	22.7	1.6	0.0	24.3	2.0	1.5	0.0	3.4	
Exiting Leg Total				751				2239				113	310
Cars	62	2140	1	2203	686	45	0	731	54	42	0	96	30:
% Cars	96.9	98.3	100.0	98.2	97.4	91.8	0.0	97.1	88.5	91.3	0.0	89.7	97
Exiting Leg Total				729				2194				107	30
Heavy Vehicles	2	38	0	40	18	4	0	22	7	4	0	11	
% Heavy Vehicles	3.1	1.7	0.0	1.8	2.6	8.2	0.0	2.9	11.5	8.7	0.0	10.3	2
Exiting Leg Total				22				45				6	

3:30 PM		Greendal	e Avenue			Greendal	e Avenue			Grosven	or Road		
		from I	North			from	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
3:30 PM	1	175	0	176	46	4	0	50	1	3	0	4	230
3:45 PM	5	186	0	191	46	4	0	50	10	1	0	11	252
4:00 PM	1	237	0	238	35	1	0	36	4	3	0	7	281
4:15 PM	6	198	0	204	37	4	0	41	3	0	0	3	248
Total Volume	13	796	0	809	164	13	0	177	18	7	0	25	1011
% Approach Total	1.6	98.4	0.0		92.7	7.3	0.0		72.0	28.0	0.0		
PHF	0.542	0.840	0.000	0.850	0.891	0.813	0.000	0.885	0.450	0.583	0.000	0.568	0.899
Cars	13	780	0	793	157	13	0	170	16	6	0	22	985
Cars %	100.0	98.0	0.0	98.0	95.7	100.0	0.0	96.0	88.9	85.7	0.0	88.0	97.4
Heavy Vehicles	0	16	0.0	16	7	0.00	0.0	7	2	1	0.0	3	26
Heavy Vehicles %	0.0	2.0	0.0	2.0	4.3	0.0	0.0	4.0	11.1	14.3	0.0	12.0	2.6
Cars Enter Leg	13	780	0	793	157	13	0	170	16	6	0	22	985
Heavy Enter Leg	0	16	0	16	7	0	0	7	2	1	0	3	26
Total Entering Leg	13	796	0	809	164	13	0	177	18	7	0	25	1011
Cars Exiting Leg				163				796				26	985
Heavy Exiting Leg				8				18				0	26
Total Exiting Leg				171				814				26	1011

N: Greendale Avenue S: Greendale Avenue Location:

W: Grosvenor Road Location: City, State: Needham, MA Client: **GPI/ N.Rogers** 

MAX-2017099.1 Site Code:

Count Date: Thursday, November 29, 2018

2:00 PM Start Time: End Time: 6:00 PM



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

Class:				Cars-C	ombined	(Motorc	ycles, Cars	, Light G	oods)				
		Greendale	e Avenue			Greendal	e Avenue			Grosven	or Road		
		from N	North			from	South			from '	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
2:00 PM	3	38	1	42	35	6	0	41	2	2	0	4	87
2:15 PM	5	43	0	48	48	2	0	50	0	4	0	4	102
2:30 PM	2	54	0	56	59	2	0	61	3	8	0	11	128
2:45 PM	11	117	0	128	34	4	0	38	16	7	0	23	189
Total	21	252	1	274	176	14	0	190	21	21	0	42	506
3:00 PM	4	106	0	110	51	0	0	51	6	3	0	9	170
3:15 PM	1	140	0	141	50	0	0	50	1	1	0	2	193
3:30 PM	1	172	0	173	43	4	0	47	1	3	0	4	224
3:45 PM	5	185	0	190	45	4	0	49	9	1	0	10	249
Total	11	603	0	614	189	8	0	197	17	8	0	25	836
4:00 PM	1	232	0	233	33	1	0	34	4	2	0	6	273
4:15 PM	6	191	0	197	36	4	0	40	2	0	0	2	239
4:30 PM	1	141	0	142	36	3	0	39	2	2	0	4	185
4:45 PM	4	145	0	149	35	5	0	40	5	1	0	6	195
Total	12	709	0	721	140	13	0	153	13	5	0	18	892
5:00 PM	3	153	0	156	31	3	0	34	1	4	0	5	195
5:15 PM	6	148	0	154	52	1	0	53	1	2	0	3	210
5:30 PM	5	164	0	169	53	1	0	54	0	1	0	1	224
5:45 PM	4	111	0	115	45	5	0	50	1	1	0	2	167
Total	18	576	0	594	181	10	0	191	3	8	0	11	796
Grand Total	62	2140	1	2203	686	45	0	731	54	42	0	96	3030
Approach %	2.8	97.1	0.0		93.8	6.2	0.0	.51	56.3	43.8	0.0	50	5550
Total %	2.0	70.6	0.0	72.7	22.6	1.5	0.0	24.1	1.8	1.4	0.0	3.2	
Exiting Leg Total				729				2194				107	3030

3:30 PM		Greendale	e Avenue			Greendal	e Avenue			Grosver	or Road		
		from I	North			from	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
3:30 PM	1	172	0	173	43	4	0	47	1	3	0	4	224
3:45 PM	5	185	0	190	45	4	0	49	9	1	0	10	249
4:00 PM	1	232	0	233	33	1	0	34	4	2	0	6	273
4:15 PM	6	191	0	197	36	4	0	40	2	0	0	2	239
Total Volume	13	780	0	793	157	13	0	170	16	6	0	22	985
% Approach Total	1.6	98.4	0.0		92.4	7.6	0.0		72.7	27.3	0.0		
PHF	0.542	0.841	0.000	0.851	0.872	0.813	0.000	0.867	0.444	0.500	0.000	0.550	0.902
Entering Leg	13	780	0	793	157	13	0	170	16	6	0	22	985
Exiting Leg				163				796				26	985
Total			_	956		_	·	966				48	1970

N: Greendale Avenue S: Greendale Avenue Location:

W: Grosvenor Road Location: City, State: Needham, MA **GPI/ N.Rogers** Client:

MAX-2017099.1 Site Code:

Count Date: Thursday, November 29, 2018

2:00 PM Start Time: End Time: 6:00 PM



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

Class:			Heavy Ve	hicles-Co	mbined (	Buses, Si	ngle-Unit	Trucks, A	rticulated	Trucks)			
		Greendal	e Avenue			Greendal	e Avenue			Grosven	or Road		
		from I	North			from	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
2:00 PM	0	4	0	4	2	0	0	2	0	0	0	0	6
2:15 PM	1	1	0	2	1	1	0	2	1	0	0	1	5
2:30 PM	0	0	0	0	1	0	0	1	0	1	0	1	2
2:45 PM	1	4	0	5	1	1	0	2	1	0	0	1	8
Total	2	9	0	11	5	2	0	7	2	1	0	3	21
3:00 PM	0	1	0	1	2	1	0	3	2	1	0	3	7
3:15 PM	0	2	0	2	0	0	0	0	0	0	0	0	2
3:30 PM	0	3	0	3	3	0	0	3	0	0	0	0	6
3:45 PM	0	7	0	1	1 6	0 1	0	1	3	0	0	1	3 18
Total				7				7	!			4	
4:00 PM	0	5	0	5	2	0	0	2	0	1	0	1	8
4:15 PM	0	7	0	7	1	0	0	1	1	0	0	1	9
4:30 PM 4:45 PM	0	1 2	0	1	2 0	0	0	2	1 0	0	0	1	4 4
Total	0	15	0	15		1	0	6		2	0	4	25
				13			U		!		U	71	23
5:00 PM	0	3	0	3	0	0	0	0	_	0	0	0	3
5:15 PM	0	1	0	1	0	0	0	0	0	0	0	0	1
5:30 PM	0	2	0	2	0	0	0	0	0	0	0	0	2
5:45 PM Total	0	1 	0	7	2	0	0	2	0	0	0	0	<u>3</u> 9
	1					U				O		٩	
Grand Total	2	38	0	40	18	4	0	22	7	4	0	11	73
Approach %	5.0	95.0	0.0		81.8	18.2	0.0		63.6	36.4	0.0		
Total %	2.7	52.1	0.0	54.8	24.7	5.5	0.0	30.1	9.6	5.5	0.0	15.1	
Exiting Leg Total				22				45				6	73
Buses	1	8	0	9	6	2	0	8	0	2	0	2	19
% Buses	50.0	21.1	0.0	22.5	33.3	50.0	0.0	36.4	0.0	50.0	0.0	18.2	26.0
Exiting Leg Total				8				8				3	19
Single-Unit Trucks	1	27	0	28	10	2	0	12	7	2	0	9	49
% Single-Unit	50.0	71.1	0.0	70.0	55.6	50.0	0.0	54.5	100.0	50.0	0.0	81.8	67.1
Exiting Leg Total				12				34				3	49
Articulated Trucks	0	3	0	3	2	0	0	2	0	0	0	0	5
% Articulated	0.0	7.9	0.0	7.5	11.1	0.0	0.0	9.1	0.0	0.0	0.0	0.0	6.8
Exiting Leg Total				2				3				0	5

Teak Hoar Analysis Hon	11 02.00 1 111 (	.0 00.00 1 11	i begins at.										
3:30 PM		Greendale	e Avenue			Greendal	e Avenue			Grosven	or Road		
		from I	North			from	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
3:30 PM	0	3	0	3	3	0	0	3	0	0	0	0	6
3:45 PM	0	1	0	1	1	0	0	1	1	0	0	1	3
4:00 PM	0	5	0	5	2	0	0	2	0	1	0	1	8
4:15 PM	0	7	0	7	1	0	0	1	1	0	0	1	9
Total Volume	0	16	0	16	7	0	0	7	2	1	0	3	26
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		66.7	33.3	0.0		
PHF	0.000	0.571	0.000	0.571	0.583	0.000	0.000	0.583	0.500	0.250	0.000	0.750	0.722
Buses	0	4	0	4	2	0	0	2	0	0	0	0	6
Buses %	0.0	25.0	0.0	25.0	28.6	0.0	0.0	28.6	0.0	0.0	0.0	0.0	23.1
Single-Unit Trucks	0	10	0	10		0	0	4	2	1	0	3	17
Single-Unit %	0.0	62.5	0.0	62.5	57.1	0.0	0.0	57.1	100.0	100.0	0.0	100.0	65.4
Articulated Trucks	0	2	0	2	1	0	0	1	0	0	0	0	3
Articulated %	0.0	12.5	0.0	12.5	14.3	0.0	0.0	14.3	0.0	0.0	0.0	0.0	11.5
Buses	0	4	0	4	2	0	0	2	0	0	0	0	6
Single-Unit Trucks	0	10	0	10	4	0	0	4	2	1	0	3	17
Articulated Trucks	0	2	0	2	1	0	0	1	0	0	0	0	3
Total Entering Leg	0	16	0	16	7	0	0	7	2	1	0	3	26

Location: N: Greendale Avenue S: Greendale Avenue

Location: W: Grosvenor Road
City, State: Needham, MA
Client: GPI/ N.Rogers

Site Code: MAX-2017099.1

Count Date: Thursday, November 29, 2018

Start Time: 2:00 PM
End Time: 6:00 PM



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

Class:

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

		Greenda	le Avenue			Greenda	le Avenue			Grosver	or Road		
		from	North			from	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
Buses				2				4				0	6
Single-Unit Trucks				5				12				0	17
Articulated Trucks				1				2				0	3
Total Exiting Leg				8				18				0	26

Location: N: Greendale Avenue S: Greendale Avenue

W: Grosvenor Road Location: City, State: Needham, MA Client: **GPI/ N.Rogers** MAX-2017099.1

Count Date: Thursday, November 29, 2018

2:00 PM Start Time: End Time: 6:00 PM

Class:

Site Code:



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

Cars

		Greendale	Avenue			Greendal	e Avenue			Grosven	or Road		i
		from N	lorth			from	South			from	West		<u> </u>
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
2:00 PM	3	36	1	40	31	5	0	36	2	2	0	4	80
2:15 PM	5	35	0	40	45	2	0	47	0	4	0	4	91
2:30 PM	2	50	0	52	57	2	0	59	3	7	0	10	121
2:45 PM	10	113	0	123	31	3	0	34	16	6	0	22	179
Total	20	234	1	255	164	12	0	176	21	19	0	40	471
3:00 PM	4	95	0	99	50	0	0	50	6	3	0	9	158
3:15 PM	1	124	0	125	45	0	0	45	0	1	0	1	171
3:30 PM	1	162	0	163	42	3	0	45	1	3	0	4	212
3:45 PM	4	158	0	162	42	4	0	46	6	1	0	7	215
Total	10	539	0	549	179	7	0	186	13	8	0	21	756
4:00 PM	1	209	0	210	32	1	0	33	4	1	0	5	248
4:15 PM	6	178	0	184	32	3	0	35	1	0	0	1	220
4:30 PM	1	124	0	125	36	3	0	39	1	2	0	3	167
4:45 PM	4	135	0	139	32	4	0	36	5	1	0	6	181
Total	12	646	0	658	132	11	0	143	11	4	0	15	816
5:00 PM	2	144	0	146	31	3	0	34	1	4	0	5	185
5:15 PM	6	146	0	152	52	1	0	53	0	2	0	2	207
5:30 PM	4	155	0	159	52	1	0	53	0	1	0	1	213
5:45 PM	4	107	0	111	45	4	0	49	1	1	0	2	162
Total	16	552	0	568	180	9	0	189	2	8	0	10	767
Grand Total	58	1971	1	2030	655	39	0	694	47	39	0	86	2810
Approach %	2.9	97.1	0.0		94.4	5.6	0.0		54.7	45.3	0.0		•
Total %	2.1	70.1	0.0	72.2	23.3	1.4	0.0	24.7	1.7	1.4	0.0	3.1	i
Exiting Leg Total				695				2018				97	2810

3:30 PM		Greendal	e Avenue			Greendal	e Avenue			Grosven	or Road		
		from	North			from	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
3:30 PM	1	162	0	163	42	3	0	45	1	3	0	4	212
3:45 PM	4	158	0	162	42	4	0	46	6	1	0	7	215
4:00 PM	1	209	0	210	32	1	0	33	4	1	0	5	248
4:15 PM	6	178	0	184	32	3	0	35	1	0	0	1	220
Total Volume	12	707	0	719	148	11	0	159	12	5	0	17	895
% Approach Total	1.7	98.3	0.0		93.1	6.9	0.0		70.6	29.4	0.0		
PHF	0.500	0.846	0.000	0.856	0.881	0.688	0.000	0.864	0.500	0.417	0.000	0.607	0.902
Entering Leg	12	707	0	719	148	11	0	159	12	5	0	17	895
Exiting Leg				153				719				23	895
Total				872				878				40	1790

Location: N: Greendale Avenue S: Greendale Avenue

W: Grosvenor Road Location: City, State: Needham, MA Client: **GPI/ N.Rogers** MAX-2017099.1

Count Date: Thursday, November 29, 2018

2:00 PM Start Time: End Time: 6:00 PM

Class:

Site Code:



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

# **Light Goods Vehicle**

		Greendale	e Avenue			Greendal	e Avenue			Grosven	or Road		
		from N	North			from	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
2:00 PM	0	2	0	2	4	1	0	5	0	0	0	0	7
2:15 PM	0	8	0	8	3	0	0	3	0	0	0	0	11
2:30 PM	0	4	0	4	2	0	0	2	0	1	0	1	7
2:45 PM	1	4	0	5	3	1	0	4	0	1	0	1	10
Total	1	18	0	19	12	2	0	14	0	2	0	2	35
3:00 PM	0	11	0	11	1	0	0	1	0	0	0	0	12
3:15 PM	0	16	0	16	5	0	0	5	1	0	0	1	22
3:30 PM	0	10	0	10	1	1	0	2	0	0	0	0	12
3:45 PM	1	27	0	28	3	0	0	3	3	0	0	3	34
Total	1	64	0	65	10	1	0	11	4	0	0	4	80
4:00 PM	0	23	0	23	1	0	0	1	0	1	0	1	25
4:15 PM	0	13	0	13	4	1	0	5	1	0	0	1	19
4:30 PM	0	17	0	17	0	0	0	0	1	0	0	1	18
4:45 PM	0	10	0	10	3	1	0	4	0	0	0	0	14
Total	0	63	0	63	8	2	0	10	2	1	0	3	76
5:00 PM	1	9	0	10	0	0	0	0	0	0	0	0	10
5:15 PM	0	2	0	2	0	0	0	0	1	0	0	1	3
5:30 PM	1	9	0	10	1	0	0	1	0	0	0	0	11
5:45 PM	0	4	0	4	0	1	0	1	0	0	0	0	5
Total	2	24	0	26	1	1	0	2	1	0	0	1	29
Grand Total	4	169	0	173	31	6	0	37	7	3	0	10	220
Approach %	2.3	97.7	0.0		83.8	16.2	0.0		70.0	30.0	0.0		
Total %	1.8	76.8	0.0	78.6	14.1	2.7	0.0	16.8	3.2	1.4	0.0	4.5	
Exiting Leg Total				34				176				10	220

3:45 PM		Greendal	e Avenue			Greendal	e Avenue			Grosven	or Road		
		from	North			from	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
3:45 PM	1	27	0	28	3	0	0	3	3	0	0	3	34
4:00 PM	0	23	0	23	1	0	0	1	0	1	0	1	25
4:15 PM	0	13	0	13	4	1	0	5	1	0	0	1	19
4:30 PM	0	17	0	17	0	0	0	0	1	0	0	1	18
Total Volume	1	80	0	81	8	1	0	9	5	1	0	6	96
% Approach Total	1.2	98.8	0.0		88.9	11.1	0.0		83.3	16.7	0.0		
PHF	0.250	0.741	0.000	0.723	0.500	0.250	0.000	0.450	0.417	0.250	0.000	0.500	0.706
Entering Leg	0.250 0.741 0.000 0.72				8	1	0	9	5	1	0	6	96
Exiting Leg				9				85				2	96
Total				90				94				8	192

Location: N: Greendale Avenue S: Greendale Avenue

W: Grosvenor Road Location: City, State: Needham, MA Client: **GPI/ N.Rogers** 

Site Code: MAX-2017099.1 Count Date: Thursday, November 29, 2018

2:00 PM Start Time: End Time: 6:00 PM



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

Class:						Bus	ses						
		Greendal	e Avenue			Greendal	e Avenue			Grosven	or Road		i
		from I	North			from	South			from	West		İ
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	0	0	0	0	1	0	0	1	0	1	0	1	2
2:45 PM	1	1	0	2	0	1	0	1	0	0	0	0	3
Total	1	1	0	2	1	1	0	2	0	1	0	1	5
3:00 PM	0	0	0	0	2	1	0	3	0	1	0	1	4
3:15 PM	0	2	0	2	0	0	0	0	0	0	0	0	2
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	1	0	1	1	0	0	1	0	0	0	0	2
Total	0	3	0	3	3	1	0	4	0	1	0	1	8
4:00 PM	0	2	0	2	0	0	0	0	0	0	0	0	2
4:15 PM	0	1	0	1	1	0	0	1	0	0	0	0	2
4:30 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	3	0	3	2	0	0	2	0	0	0	0	5
5:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	1
5:15 PM	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
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	1	0	0	0	0	0	0	0	0	1
Grand Total	1	8	0	9	6	2	0	8	0	2	0	2	19
Approach %	11.1	88.9	0.0		75.0	25.0	0.0		0.0	100.0	0.0		i
Total %	5.3	42.1	0.0	47.4	31.6	10.5	0.0	42.1	0.0	10.5	0.0	10.5	i
Exiting Leg Total				8				8				3	19

· · · · · · · · · · · · · · · · · · ·													
2:30 PM		Greendale	e Avenue			Greendal	e Avenue			Grosven	or Road		
		from I	North			from	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
2:30 PM	0	0	0	0	1	0	0	1	0	1	0	1	2
2:45 PM	1	1	0	2	0	1	0	1	0	0	0	0	3
3:00 PM	0	0	0	0	2	1	0	3	0	1	0	1	4
3:15 PM	0	2	0	2	0	0	0	0	0	0	0	0	2
Total Volume	1	3	0	4	3	2	0	5	0	2	0	2	11
% Approach Total	25.0	75.0	0.0		60.0	40.0	0.0		0.0	100.0	0.0		
PHF	0.250	0.375	0.000	0.500	0.375	0.500	0.000	0.417	0.000	0.500	0.000	0.500	0.688
Entering Leg	l 1	3	0	4	3	2	0	-	0	2	0	ام	11
= =	1	3	U	4	3	2	U	5	U	2	U	2	
Exiting Leg				5				3				3	11
Total				9				8				5	22

Location: N: Greendale Avenue S: Greendale Avenue

Location: W: Grosvenor Road
City, State: Needham, MA
Client: GPI/ N.Rogers

Site Code: MAX-2017099.1
Count Date: Thursday, November 29, 2018

Start Time: 2:00 PM
End Time: 6:00 PM

Class:



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

## **Single-Unit Trucks**

		Greendale	e Avenue			Greendal	e Avenue			Grosven	or Road		
		from I	North			from	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
2:00 PM	0	3	0	3	2	0	0	2	0	0	0	0	5
2:15 PM	1	1	0	2	1	1	0	2	1	0	0	1	5
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	0	3	0	3	0	0	0	0	1	0	0	1	4
Total	1	7	0	8	3	1	0	4	2	0	0	2	14
3:00 PM	0	1	0	1	0	0	0	0	2	0	0	2	3
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	3	0	3	3	0	0	3	0	0	0	0	6
3:45 PM	0	0	0	0	0	0	0	0	1	0	0	1	1
Total	0	4	0	4	3	0	0	3	3	0	0	3	10
4:00 PM	0	2	0	2	1	0	0	1	0	1	0	1	4
4:15 PM	0	5	0	5	0	0	0	0	1	0	0	1	6
4:30 PM	0	1	0	1	1	0	0	1	1	0	0	1	3
4:45 PM	0	2	0	2	0	1	0	1	0	1	0	1	4
Total	0	10	0	10	2	1	0	3	2	2	0	4	17
5:00 PM	0	2	0	2	0	0	0	0	0	0	0	0	2
5:15 PM	0	1	0	1	0	0	0	0	0	0	0	0	1
5:30 PM	0	2	0	2	0	0	0	0	0	0	0	0	2
5:45 PM	0	1	0	1	2	0	0	2	0	0	0	0	3
Total	0	6	0	6	2	0	0	2	0	0	0	0	8
Grand Total	1	27	0	28	10	2	0	12	7	2	0	9	49
Approach %	3.6	96.4	0.0		83.3	16.7	0.0		77.8	22.2	0.0		
Total %	2.0	55.1	0.0	57.1	20.4	4.1	0.0	24.5	14.3	4.1	0.0	18.4	
Exiting Leg Total				12				34				3	49

· · · · · · · · · · · · · · · · · · ·													
3:30 PM		Greendal	e Avenue			Greendal	e Avenue			Grosver	or Road		
		from I	North			from	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
3:30 PM	0	3	0	3	3	0	0	3	0	0	0	0	6
3:45 PM	0	0	0	0	0	0	0	0	1	0	0	1	1
4:00 PM	0	2	0	2	1	0	0	1	0	1	0	1	4
4:15 PM	0	5	0	5	0	0	0	0	1	0	0	1	6
Total Volume	0	10	0	10	4	0	0	4	2	1	0	3	17
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		66.7	33.3	0.0		
PHF	0.000	0.500	0.000	0.500	0.333	0.000	0.000	0.333	0.500	0.250	0.000	0.750	0.708
	- I			i	İ				1			i	
Entering Leg	0	10	0	10	4	0	0	4	2	1	0	3	17
Exiting Leg				5				12				0	17
Total			•	15		•	•	16		•		3	34

Location: N: Greendale Avenue S: Greendale Avenue

Location: W: Grosvenor Road
City, State: Needham, MA
Client: GPI/ N.Rogers
Site Code: MAX-2017099.1

Count Date: Thursday, November 29, 2018

Start Time: 2:00 PM
End Time: 6:00 PM

Class:



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

## **Articulated Trucks**

		Greendale	e Avenue			Greendal	e Avenue			Grosven	or Road		
		from N	North			from	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
2:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	1
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
Total	0	1	0	1	1	0	0	1	0	0	0	0	2
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	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
4:00 PM	0	1	0	1	1	0	0	1	0	0	0	0	2
4:15 PM	0	1	0	1	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
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	2	0	2	1	0	0	1	0	0	0	0	3
5:00 PM	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
5:30 PM	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
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
									•				
Grand Total	0	3	0	3	2	0	0	2	0	0	0	0	5
Approach %	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
Total %	0.0	60.0	0.0	60.0	40.0	0.0	0.0	40.0	0.0	0.0	0.0	0.0	
Exiting Leg Total				2				3				0	5

1													
3:30 PM		Greendal	e Avenue			Greendal	e Avenue			Grosven	or Road		
		from I	North			from	South			from	West		
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	1	0	1	1	0	0	1	0	0	0	0	2
4:15 PM	0	1	0	1	0	0	0	0	0	0	0	0	1
Total Volume	0	2	0	2	1	0	0	1	0	0	0	0	3
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.500	0.000	0.500	0.250	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.375
Entering Leg	0	2	0	2	1	0	0	1	0	0	0	0	3
Exiting Leg				1				2				0	3
Total				3				3				0	6

Location: N: Greendale Avenue S: Greendale Avenue

Location: W: Grosvenor Road
City, State: Needham, MA
Client: GPI/ N.Rogers

Client: **GPI/ N.Rogers**Site Code: **MAX-2017099.1** 

Count Date: Thursday, November 29, 2018

Start Time: 2:00 PM
End Time: 6:00 PM

Class:



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

**Bicycles (on Roadway and Crosswalks)** 

		G	ireendal	e Avenu	e			G	reendal	e Avenu	е				Grosver	or Road			
			from	North					from	South					from	West			
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
3:00 PM	0	1	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	2
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	2
4:00 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	2
4:15 PM	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
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	2
5:00 PM	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
5:30 PM	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
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Considerated		2	•			اء		•				اء		0				ا	
Grand Total	0	3	0	0	0	3	0	0	0	0	1	1	0	0	0	0		1	5
Approach %	0.0	100.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	100.0		0.0	0.0	0.0	0.0	100.0		
Total %	0.0	60.0	0.0	0.0	0.0	60.0	0.0	0.0	0.0	0.0	20.0	20.0	0.0	0.0	0.0	0.0	20.0	20.0	
Exiting Leg Total						0						4						1	5

2:15 PM		G	reendal	e Avenu	е			G	reendal	e Avenu	е				Grosver	or Road			
			from I	North					from	South					from	West			
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
3:00 PM	0	1	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	2
Total Volume	0	2	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	0	3
% Approach Total	0.0	100.0	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		
PHF	0.000	0.500	0.000	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.250	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.375
Entering Leg	0	2	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	0	3
Exiting Leg						0						3						0	3
Total						2						4						0	6

N: Greendale Avenue S: Greendale Avenue Location:

W: Grosvenor Road Location: City, State: Needham, MA **GPI/ N.Rogers** Client: MAX-2017099.1

Count Date: Thursday, November 29, 2018

2:00 PM Start Time: End Time: 6:00 PM

Site Code:

Class:



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: datarequests@pdillc.com

## **Pedestrians**

<b>0</b> .000.																			
		G	Greendal	e Avenu	ie			G	ireendal	e Avenu	е				Grosver	or Road			
			from	North					from	South					from	West			
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	0	0	0	0	0	0	0	0	0	5	0	5	0	0	0	0	0	0	5
2:45 PM	0	0	0	0	0	0	0	0	0	1	3	4	0	0	0	0	0	0	4
Total	0	0	0	0	0	0	0	0	0	6	3	9	0	0	0	0	1	1	10
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2
3:15 PM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	2
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	3	4	5
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2
4:15 PM	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
4:45 PM	0	0	0	0		0	0	0	0	0	0	0	0	0	0	2	0	2	2
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	4	4
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	3	3
5:15 PM	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	1	1	1
5:45 PM	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	2	2	4	4
						ĺ							Ī						
Grand Total	0	0	0	1	0	1	0	0	0	6	3	9	0	0	0	5	8	13	23
Approach %	0	0	0	100	0		0	0	0	66.667	33.333		0	0	0	38.462	61.538		
Total %	0	0	0	4.3478	0	4.3478	0	0	0	26.087	13.043	39.13	0	0	0	21.739	34.783	56.522	
Exiting Leg Total						1						9						13	23
																		•	

2:30 PM		G	ireendal	e Avenu	е			G	reendal	e Avenu	e				Grosver	or Road			
			from I	North					from S	South					from	West			
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
2:30 PM	0	0	0	0	0	0	0	0	0	5	0	5	0	0	0	0	0	0	5
2:45 PM	0	0	0	0	0	0	0	0	0	1	3	4	0	0	0	0	0	0	4
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2
3:15 PM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	2
Total Volume	0	0	0	1	0	1	0	0	0	6	3	9	0	0	0	1	2	3	13
% Approach Total	0.0	0.0	0.0	100.0	0.0		0.0	0.0	0.0	66.7	33.3		0.0	0.0	0.0	33.3	66.7		
PHF	0.000	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.300	0.250	0.450	0.000	0.000	0.000	0.250	0.250	0.375	0.650
Entering Leg	0	0	0	1	0	1	0	0	0	6	3	9	0	0	0	1	2	3	13
Exiting Leg						1						9						3	13
Total						2						18						6	26

Location: N: Warren Street S: Warren Street NE: Harris Avenue

Location: E: Dedham Avenue W: Dedham Avenue

City, State: Needham, MA Client: GPI/ N.Rogers Site Code: MAX-2017099.1

Count Date: Thursday, December 06, 2018

Start Time: 7:00 AM End Time: 11:00 AM



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118

#### Cars and Heavy Vehicles (Combined)

Class:												C	ars an	d Hea	vy ve	Hicles	(୯୯୭ଲୀ	binec	I)												
		١	Warren	Street				-	Harris A	venue				D	edham	Avenue	!			1	Warren	Street				D	edham A	Avenue	9		
			from N	Iorth				f	rom No	rtheast					from	East					from	South					from V	Vest			
	Right	Thru	Left H	lard Left (	J-Turn	Total	Hard Righ Be	ar Righ	Bear Left H	Hard Left	U-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right B	ear Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn	Total	Total
7:00 AM	0	2	1	0	0	3	0	4	13	0	0	17	1	1	61	0	0	63	0	19	5	2	0	26	1	50	13	1	0	65	174
7:15 AM	3	5	2	0	0	10	1	8	13	0	0	22	2	5	61	0	0	68	0	39	5	2	0	46	0	47	14	4	0	65	211
7:30 AM	3	3	3	0	0	9	2	27	29	2	0	60	0	12	98	0	0	110	0	58	13	2	0	73	2	60	35	4	0	101	353
7:45 AM	6	8	5	0	0	19	0	19	40	0	0	59	0	15	102	0	0	117	1	24	13	1	0	39	1	72	8	3	0	84	318
Total	12	18	11	0	0	41	3	58	95	2	0	158	3	33	322	0	0	358	1	140	36	7	0	184	4	229	70	12	0	315	1056
8:00 AM	10	9	8	1	0	28	1	7	27	0	0	35	0	11	97	0	0	108	0	24	11	2	0	37	1	55	10	2	0	68	276
8:15 AM	11	6	5	0	0	22	0	14	24	0	0	38	0	4	105	0	0	109	1	23	6	1	0	31	1	64	15	4	0	84	284
8:30 AM	2	6	5	0	0	13	0	6	24	0	1	31	0	7	84	1	0	92	0	23	7	1	0	31	2	67	6	3	0	78	245
8:45 AM	5	3	6	1	0	15	2	8	26	0	0	36	2	10	92	0	0	104	0	26	7	4	0	37	1	65	7	2	0	75	267
Total	28	24	24	2	0	78	3	35	101	0	1	140	2	32	378	1	0	413	1	96	31	8	0	136	5	251	38	11	0	305	1072
9:00 AM	7	7	1	0	0	15	1	8	10	0	0	19	0	8	79	0	0	87	0	20	3	2	0	25	0	48	11	1	0	60	206
9:15 AM	1	3	0	0	0	4	0	7	28	0	0	35	0	9	102	1	0	112	0	14	7	1	0	22	2	42	5	0	0	49	222
9:30 AM	4	2	1	0	0	7	1	8	21	0	0	30	0	2	65	1	0	68	0	16	3	1	0	20	2	56	7	1	0	66	191
9:45 AM	4	6	5	1	0	16	0	7	18	0	0	25	0	7	69	0	0	76	1	25	2	4	0	32	3	69	5	0	0	77	226
Total	16	18	7	1	0	42	2	30	77	0	0	109	0	26	315	2	0	343	1	75	15	8	0	99	7	215	28	2	0	252	845
10:00 AM	4	6	2	0	0	12	0	6	21	0	0	27	0	0	64	0	0	64	1	14	4	5	0	24	0	52	7	0	0	59	186
10:15 AM	1	6	3	0	0	10	0	6	23	0	0	29	0	4	62	0	0	66	1	17	5	0	0	23	2	46	11	3	0	62	190
10:30 AM	2	5	4	0	0	11	1	1	20	0	0	22	0	6	58	0	0	64	0	19	2	3	0	24	1	58	2	1	0	62	183
10:45 AM	1	5	4	0	0	10	0	5	21	0	0	26	0	4	60	0	0	64	0	9	1	2	0	12	2	45	11	0	0	58	170
Total	8	22	13	0	0	43	1	18	85	0	0	104	0	14	244	0	0	258	2	59	12	10	0	83	5	201	31	4	0	241	729
Grand Total	64	82	55	3	0	204	9	141	358	2	1	511	5	105	1259	3	0	1372	5	370	94	33	0	502	21	896	167	29	0	1113	3702
Approach %	31.4	40.2	27.0	1.5	0.0		1.8	27.6	70.1	0.4	0.2		0.4	7.7	91.8	0.2	0.0		1.0	73.7	18.7	6.6	0.0		1.9	80.5	15.0	2.6	0.0		
Total %	1.7	2.2	1.5	0.1	0.0	5.5	0.2	3.8	9.7	0.1	0.0	13.8	0.1	2.8	34.0	0.1	0.0	37.1	0.1	10.0	2.5	0.9	0.0	13.6	0.6	24.2	4.5	8.0	0.0	30.1	
Exiting Leg Total						237						546						958						464						1497	3702
Cars	64	81	52	3	0	200	8	139	348	2	1	498	5	100	1187	2	0	1294	5	352	89	32	0	478	21	846	162	28	0	1057	3527
% Cars	100.0	98.8	94.5	100.0	0.0	98.0	88.9	98.6	97.2	100.0	100.0	97.5	100.0	95.2	94.3	66.7	0.0	94.3	100.0	95.1	94.7	97.0	0.0	95.2	100.0	94.4	97.0	96.6	0.0	95.0	95.3
Exiting Leg Total						225						523						905						452						1422	3527
Heavy Vehicles	0	1	3	0	0	4	1	2	10	0	0	13	0	5	72	1	0	78	0	18	5	1	0	24	0	50	5	1	0	56	175
% Heavy Vehicles	0.0	1.2	5.5	0.0	0.0	2.0	11.1	1.4	2.8	0.0	0.0	2.5	0.0	4.8	5.7	33.3	0.0	5.7	0.0	4.9	5.3	3.0	0.0	4.8	0.0	5.6	3.0	3.4	0.0	5.0	4.7
Exiting Leg Total						12						23						53						12						75	175

r can riour rinarysis					-8	**																									
7:30 AM			Warren	Street				1	Harris A	venue				D	edham	Avenue				١	Narren	Street				D	edham	Avenue	ż		
			from I	North				f	rom No	rtheast					from	East					from 5	South					from '	West			
	Right	Thru	Left	Hard Left	U-Turn	Total	Hard RighB	ear Righ	Bear Left I	Hard Left	U-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right B	ear Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn	Total	Total
7:30 AM	3	3	3	0	0	9	2	27	29	2	0	60	0	12	98	0	0	110	0	58	13	2	0	73	2	60	35	4	0	101	353
7:45 AM	6	8	5	0	0	19	0	19	40	0	0	59	0	15	102	0	0	117	1	24	13	1	0	39	1	72	8	3	0	84	318
8:00 AM	10	9	8	1	0	28	1	7	27	0	0	35	0	11	97	0	0	108	0	24	11	2	0	37	1	55	10	2	0	68	276
8:15 AM	11	6	5	0	0	22	0	14	24	0	0	38	0	4	105	0	0	109	1	23	6	1	0	31	1	64	15	4	0	84	284
Total Volume	30	26	21	1	0	78	3	67	120	2	0	192	0	42	402	0	0	444	2	129	43	6	0	180	5	251	68	13	0	337	1231
% Approach Total	38.5	33.3	26.9	1.3	0.0		1.6	34.9	62.5	1.0	0.0		0.0	9.5	90.5	0.0	0.0		1.1	71.7	23.9	3.3	0.0		1.5	74.5	20.2	3.9	0.0		
PHF	0.682	0.722	0.656	0.250	0.000	0.696	0.375	0.620	0.750	0.250	0.000	0.800	0.000	0.700	0.957	0.000	0.000	0.949	0.500	0.556	0.827	0.750	0.000	0.616	0.625	0.872	0.486	0.813	0.000	0.834	0.872
Cars	30	26	21	1	0	78	3	66	118	2	0	189	0	41	376	0	0	417	2	113	41	6	0	162	5	240	68	13	0	326	1172
Cars %	100.0	100.0	100.0	100.0	0.0	100.0	100.0	98.5	98.3	100.0	0.0	98.4	0.0	97.6	93.5	0.0	0.0	93.9	100.0	87.6	95.3	100.0	0.0	90.0	100.0	95.6	100.0	100.0	0.0	96.7	95.2
Heavy Vehicles	0	0	0	0	0	0	0	1	2	0	0	3	0	1	26	0	0	27	0	16	2	0	0	18	0	11	0	0	0	11	59
Heavy Vehicles %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.7	0.0	0.0	1.6	0.0	2.4	6.5	0.0	0.0	6.1	0.0	12.4	4.7	0.0	0.0	10.0	0.0	4.4	0.0	0.0	0.0	3.3	4.8
Cars Enter Leg	30	26	21	1	0	78	3	66	118	2	0	189	0	41	376	0	0	417	2	113	41	6	0	162	5	240	68	13	0	326	1172
Heavy Enter Leg	0	0	0	0	0	0	0	1	2	0	0	3	0	1	26	0	0	27	0	16	2	0	0	18	0	11	0	0	0	11	59
Total Entering Leg	30	26	21	1	0	78	3	67	120	2	0	192	0	42	402	0	0	444	2	129	43	6	0	180	5	251	68	13	0	337	1231
Cars Exiting Leg						98	ĺ					182						265						149						478	1172
Heavy Exiting Leg						3						16						11						2						27	59
Total Exiting Leg						101						198						276						151						505	1231

Location: N: Warren Street S: Warren Street NE: Harris Avenue

Location: E: Dedham Avenue W: Dedham Avenue

City, State: Needham, MA Client: GPI/ N.Rogers Site Code: MAX-2017099.1

Count Date: Thursday, December 06, 2018

Start Time: 7:00 AM End Time: 11:00 AM



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118

Class:											С	ars-Co	ombine	ed <sup>E</sup> (ĵi∛i	otorc	/cles,	dilleson	ight	Goods	)											
			Warre	n Street					Harris Av	enue				D	edham	Avenue				١	Narren	Street				D	edham A	Avenue			
			from	North				f	rom Nort	heast					from	East					from 5	South					from V	Vest			
	Right	Thru	Left	Hard Left	J-Turn	Total	Hard Righ Be	ar Righ	Bear Left Ha	rd Left U	l-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right B	ear Righ	Thru	Left	U-Turn	Total	Right	Thru E	Bear Left	Left	U-Turn	Total	Total
7:00 AM	0	2	1	0	0	3	0	4	13	0	0	17	1	1	58	0	0	60	0	18	4	2	0	24	1	47	12	1	0	61	165
7:15 AM	3	5	2	0	0	10	0	8	13	0	0	21	2	4	56	0	0	62	0	38	5	2	0	45	0	43	14	4	0	61	199
7:30 AM	3	3	3	0	0	9	2	27	29	2	0	60	0	11	90	0	0	101	0	43	13	2	0	58	2	59	35	4	0	100	328
7:45 AM	6	8	5	0	0	19	0	19	40	0	0	59	0	15	93	0	0	108	1	24	12	1	0	38	1	67	8	3	0	79	303
Total	12	18	11	0	0	41	2	58	95	2	0	157	3	31	297	0	0	331	1	123	34	7	0	165	4	216	69	12	0	301	995
8:00 AM	10	9	8	1	0	28	1	7	25	0	0	33	0	11	94	0	0	105	0	23	10	2	0	35	1	53	10	2	0	66	267
8:15 AM	11	6	5	0	0	22	0	13	24	0	0	37	0	4	99	0	0	103	1	23	6	1	0	31	1	61	15	4	0	81	274
8:30 AM	2	6	5	0	0	13	0	6	21	0	1	28	0	7	83	1	0	91	0	23	7	1	0	31	2	66	5	3	0	76	239
8:45 AM	5	3	6	1	0	15	2	8	25	0	0	35	2	10	88	0	0	100	0	26	6	4	0	36	1	61	7	2	0	71	257
Total	28	24	24	2	0	78	3	34	95	0	1	133	2	32	364	1	0	399	1	95	29	8	0	133	5	241	37	11	0	294	1037
9:00 AM	7	7	1	0	0	15	1	8	10	0	0	19	0	8	73	0	0	81	0	20	3	2	0	25	0	47	10	1	0	58	198
9:15 AM	1	2	0	0	0	3	0	7	27	0	0	34	0	8	95	1	0	104	0	14	7	1	0	22	2	34	5	0	0	41	204
9:30 AM	4	2	1	0	0	7	1	8	21	0	0	30	0	2	62	0	0	64	0	16	3	0	0	19	2	53	7	0	0	62	182
9:45 AM	4	6	4	1	0	15	0	7	18	0	0	25	0	6	65	0	0	71	1	25	2	4	0	32	3	64	5	0	0	72	215
Total	16	17	6	1	0	40	2	30	76	0	0	108	0	24	295	1	0	320	1	75	15	7	0	98	7	198	27	1	0	233	799
10:00 AM	4	6	0	0	0	10	0	6	21	0	0	27	0	0	59	0	0	59	1	14	4	5	0	24	0	51	6	0	0	57	177
10:15 AM	1	6	3	0	0	10	0	5	23	0	0	28	0	4	56	0	0	60	1	17	4	0	0	22	2	42	11	3	0	58	178
10:30 AM	2	5	4	0	0	11	1	1	19	0	0	21	0	5	56	0	0	61	0	19	2	3	0	24	1	54	1	1	0	57	174
10:45 AM	1	5	4	0	0	10	0	5	19	0	0	24	0	4	60	0	0	64	0	9	1	2	0	12	2	44	11	0	0	57	167
Total	8	22	11	0	0	41	1	17	82	0	0	100	0	13	231	0	0	244	2	59	11	10	0	82	5	191	29	4	0	229	696
Grand Total	64	81	52	3	0	200	8	139	348	2	1	498	5	100	1187	2	0	1294	5	352	89	32	0	478	21	846	162	28	0	1057	3527
Approach %	32.0	40.5	26.0	1.5	0.0		1.6	27.9	69.9	0.4	0.2		0.4	7.7	91.7	0.2	0.0		1.0	73.6	18.6	6.7	0.0		2.0	80.0	15.3	2.6	0.0		
Total %	1.8	2.3	1.5	0.1	0.0	5.7	0.2	3.9	9.9	0.1	0.0	14.1	0.1	2.8	33.7	0.1	0.0	36.7	0.1	10.0	2.5	0.9	0.0	13.6	0.6	24.0	4.6	0.8	0.0	30.0	
Exiting Leg Total						225						523						905						452						1422	3527
							•																								

7:30 AM		,	Warrer	Street					Harris /	Avenue					edham	Avenue	5				Warren	Street				D	edham .	Avenue	!		
			from	North				f	rom No	ortheast					from	East					from	South					from V	Vest			
	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Righ B	ear Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn	Total	Total
7:30 AM	3	3	3	0	0	9	2	27	29	2	0	60	0	11	90	0	0	101	0	43	13	2	0	58	2	59	35	4	0	100	328
7:45 AM	6	8	5	0	0	19	0	19	40	0	0	59	0	15	93	0	0	108	1	24	12	1	0	38	1	67	8	3	0	79	303
8:00 AM	10	9	8	1	0	28	1	7	25	0	0	33	0	11	94	0	0	105	0	23	10	2	0	35	1	53	10	2	0	66	267
8:15 AM	11	6	5	0	0	22	0	13	24	0	0	37	0	4	99	0	0	103	1	23	6	1	0	31	1	61	15	4	0	81	274
Total Volume	30	26	21	1	0	78	3	66	118	2	0	189	0	41	376	0	0	417	2	113	41	6	0	162	5	240	68	13	0	326	1172
% Approach Total	38.5	33.3	26.9	1.3	0.0		1.6	34.9	62.4	1.1	0.0		0.0	9.8	90.2	0.0	0.0		1.2	69.8	25.3	3.7	0.0		1.5	73.6	20.9	4.0	0.0		
PHF	0.682	0.722	0.656	0.250	0.000	0.696	0.375	0.611	0.738	0.250	0.000	0.788	0.000	0.683	0.949	0.000	0.000	0.965	0.500	0.657	0.788	0.750	0.000	0.698	0.625	0.896	0.486	0.813	0.000	0.815	0.893
Entering Leg	30	26	21	1	0	78	3	66	118	2	0	189	0	41	376	0	0	417	2	113	41	6	0	162	5	240	68	13	0	326	1172
Exiting Leg						98						182						265						149						478	1172
Total						176						371						682						311						804	2344

Location: N: Warren Street S: Warren Street NE: Harris Avenue

Warren Street

Location: E: Dedham Avenue W: Dedham Avenue

City, State: Needham, MA Client: GPI/ N.Rogers Site Code: MAX-2017099.1

Count Date: Thursday, December 06, 2018

Start Time: 7:00 AM End Time: 11:00 AM

Class:



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118

Warren Street

Dedham Avenue

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

Harris Avenue

			from I	North				fr	om Nor	theast					from	Fast					from	South					from	West			
	Right	Thru			U-Turn	Total -	Hard Righ Be		ear Left H		U-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right B	ear Right	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	notai O	0	0	0	0	0-14111	n	0	0	3	0	0-14111	10(a)	0	1	1	0	0-14111	2	O	3	1	0	0-14111	10tai	9
7:15 AM	0	0	0	0	0	0	1	0	0	0	Ö	1	0	1	5	0	0	6	0	1	0	0	0	1	0	4	0	0		4	12
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	0	0	9	0	15	0	0	0	15	0	1	0	0		1	25
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	9	0	0	1	0	0	1	0	5	0	0	0	5	15
Total	0	0	0	0	0	0	1	0	0	0	0	1	0	2	25	0	0	27	0	17	2	0	0	19	0	13	1	0	0	14	61
8:00 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	3	0	0	3	0	1	1	0	0	2	0	2	0	0	0	2	9
8:15 AM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	6	0	0	6	0	0	0	0	0	0	0	3	0	0	0	3	10
8:30 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1	0		2	6
8:45 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	4	0	0	4	0	0	1	0	0	1	0	4	0	0	0	4	10
Total	0	0	0	0	0	0	0	1	6	0	0	7	0	0	14	0	0	14	0	1	2	0	0	3	0	10	1	0	0	11	35
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	0	1	1	0		2	8
9:15 AM	0	1	0	0	0	1	0	0	1	0	0	1	0	1	7	0	0	8	0	0	0	0	0	0	0	8	0	0		8	18
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	4	0	0	0	1	0	1	0	3 5	0	1	0	4	9
9:45 AM Total	0	1	1	0	0	2	0	0	1	0	0	1	0	2	20	1	0	23	0	0	0	1	0	1	0	17	1	1	0	19	46
		_			-	-1		-	-		-	-		_		_	-			-		_	-	-				_		10	
10:00 AM 10:15 AM	0	0	2	0	0	2	0	0 1	0	0	0	0	0	0	5 6	0	0	5	0	0	0	0	0	0	0	1	1	0	0	2	9 12
10:30 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	1	2	0	0	3	0	0	0	0	0	0	0	4	1	0		5	9
10:45 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	3
Total	0	0	2	0	0	2	0	1	3	0	0	4	0	1	13	0	0	14	0	0	1	0	0	1	0	10	2	0	0	12	33
Grand Total	0	1	3	0	0	4	1	2	10	0	0	13	0	5	72	1	0	78	0	18	5	1	0	24	0	50	5	1	0	56	175
Approach %	0.0	25.0	75.0	0.0	0.0	7	7.7	15.4	76.9	0.0	0.0	15	0.0	6.4	92.3	1.3	0.0	,,	0.0	75.0	20.8	4.2	0.0	2-7	0.0	89.3	8.9	1.8		50	173
Total %	0.0	0.6	1.7	0.0	0.0	2.3	0.6	1.1	5.7	0.0	0.0	7.4	0.0	2.9	41.1	0.6	0.0	44.6	0.0	10.3	2.9	0.6	0.0	13.7	0.0	28.6	2.9	0.6		32.0	
Exiting Leg Total	0.0	0.0	1.7	0.0	0.0	12	0.6	1.1	5.7	0.0	0.0	23		2.9	41.1	0.6	0.0	53	0.0	10.5	2.9	0.6	0.0	13.7	0.0	28.0	2.9	0.6	0.0	75	175
Exiting Leg Total	l					12						23	l					55						12						/5	1/5
Buses	0	0	1	0	0	1	0	0	1	0	0	1	0	0	4	0	0	4	0	17	2	0	0	19	0	7	0	0	0	7	32
% Buses	0.0	0.0	33.3	0.0	0.0	25.0	0.0	0.0	10.0	0.0	0.0	7.7	0.0	0.0	5.6	0.0	0.0	5.1	0.0	94.4	40.0	0.0	0.0	79.2	0.0	14.0	0.0	0.0	0.0	12.5	18.3
Exiting Leg Total						2						17						8						1						4	32
Single-Unit Trucks	0	1	2	0	0	3	0	2	7	0	0	9	0	5	64	1	0	70	0	1	3	1	0	5	0	36	4	1	0	41	128
% Single-Unit	0.0	100.0	66.7	0.0	0.0	75.0	0.0	100.0	70.0	0.0	0.0	69.2	0.0	100.0	88.9	100.0	0.0	89.7	0.0	5.6	60.0	100.0	0.0	20.8	0.0	72.0	80.0	100.0	0.0	73.2	73.1
Exiting Leg Total						9						5						38						9						67	128
Articulated Trucks	0	0	0	0	0	0	1	0	2	0	0	3	0	0	4	0	0	4	0	0	0	0	0	0	0	7	1	0	0	8	15
% Articulated	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	20.0	0.0	0.0	23.1	0.0	0.0	5.6	0.0	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	20.0	0.0	0.0	14.3	8.6
Exiting Leg Total						1						1						7						2						4	15
Peak Hour Analysis	from 07:	00 AM	to 11:0	0 AM be	egins at:																										
7:00 AM		١	Varren	Street				H	larris Av	venue				D	edham .	Avenu	e			١	Warrer	Street				[	Dedham	Avenue	e		
			from I	North				fr	om Nor	theast					from	East					from	South					from	West			
	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Righ Be	ar Right B	ear Left H	ard Left	U-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right B	ear Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	1	1	0	0	2	0	3	1	0	0	4	9
7:15 AM	0	0	0	0	0	0	1	0	0	0	0	1	0	1	5	0	0	6	0	1	0	0	0	1	0	4	0	0	0	4	12
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	0	0	9	0	15	0	0	0	15	0	1	0	0	0	1	25
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	9	0	0	1	0	0	1	0	5	0	0	0	5	15
Total Volume	0	0	0	0	0	0	1	0	0	0	0	1	0	2	25	0	0	27	0	17	2	0	0	19	0	13	1	0	0	14	61
% Approach Total	0.0	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0	0.0		0.0	7.4	92.6	0.0	0.0		0.0	89.5	10.5	0.0	0.0		0.0	92.9	7.1	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.250	0.000	0.500	0.694	0.000	0.000	0.750	0.000	0.283	0.500	0.000	0.000	0.317	0.000	0.650	0.250	0.000	0.000	0.700	0.610
																								4.5							22
Buses 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	0.0	0.0	3 12.0	0.0	0.0	11.1	0.0	16 94.1	50.0	0.0	0.0	17 89.5	0.0	3 23.1	0.0	0.0	0.0	21.4	23 37.7
Single-Unit Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	2	20	0	0	22	0	1	1	0	0	2	0	8	0	0		8	32
Single-Unit %	0.0	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	80.0	0.0	0.0	81.5	0.0	5.9	50.0	0.0	0.0	10.5	0.0	61.5	0.0	0.0		57.1	52.5
Articulated Trucks Articulated %	0.0	0.0	0.0	0.0	0.0	0.0	1 100.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	2 8.0	0.0	0.0	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2 15.4	100.0	0.0		3 21.4	6 9.8
Buses						0.0						100.0						/.4  ~												21.4	
Single-Unit Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0 2	3 20	0	0	22	0	16 1	1	0	0	17 2	0	3 8	0	0	0	3 8	23 32
Articulated Trucks	0	0	0	0	0	Ő	1	0	0	0	Ö	1	ő	0	2	0	0	2	0	0	0	0	0	0	0	2	1	0	0	3	6
Total Entering Leg																															
rotal Entering Eeg	0	0	0	0	0	0	1	0	0	0	0	1	0	2	25	0	0	27	0	17	2	0	0	19	0	13	1	0	0	14	61
Buses	0 	0	0	0	0	0 1		0	0	0	0	1 16	•	2	25	0	0	27 3		17	2	0	0	19 0		13	1	0	0	14 3	61 23

Location: N: Warren Street S: Warren Street NE: Harris Avenue

Location: E: Dedham Avenue W: Dedham Avenue

City, State: Needham, MA
Client: GPI/ N.Rogers
Site Code: MAX-2017099.1

Count Date: Thursday, December 06, 2018

Start Time: 7:00 AM
End Time: 11:00 AM



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118

Class:

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

										,				(	, -			,				,									
			Warre	n Street				H	Harris A	Avenue				(	Dedhan	n Avenu	e			,	Warre	n Street	t			[	Dedham	Avenu	е		
			from	North				fr	rom No	ortheast					fron	n East					from	South					from '	West			
	Right	Thru	Left	Hard Left	U-Turn	Total	Hard RighB	ear Righ	Bear Left	Hard Left U	-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right	Bear Right	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn	Total	Total
Single-Unit Trucks						3	3					1						8						0						20	32
Articulated Trucks						1						1						2						0						2	6
Total Exiting Leg						5	i					18						13						0						25	61

Location: N: Warren Street S: Warren Street NE: Harris Avenue

Location: E: Dedham Avenue W: Dedham Avenue

City, State: Needham, MA
Client: GPI/ N.Rogers
Site Code: MAX-2017099.1

Count Date: Thursday, December 06, 2018

Start Time: 7:00 AM
End Time: 11:00 AM



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: data-equests@pdillc.com

		1	Warre	n Street				H	Harris Av	enue				D	edham	Avenue	!			١	Narren	Street				C	edham A	Avenue	<u>;</u>		
			from	North				fr	rom Nor	theast					from	East					from S	outh					from V	Vest			
	Right	Thru	Left	Hard Left	J-Turn	Total	Hard RighBe	ar Righ	Bear Left H	ard Left U	l-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right B	ear Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn	Total	Total
7:00 AM	0	2	1	0	0	3	0	2	12	0	0	14	1	1	49	0	0	51	0	16	4	2	0	22	1	42	12	1	0	56	146
7:15 AM	3	5	2	0	0	10	0	8	13	0	0	21	2	3	47	0	0	52	0	38	4	2	0	44	0	36	14	4	0	54	181
7:30 AM	3	3	2	0	0	8	2	26	27	2	0	57	0	10	79	0	0	89	0	40	13	2	0	55	2	53	35	3	0	93	302
7:45 AM	6	8	5	0	0	19	0	18	37	0	0	55	0	14	88	0	0	102	1	21	11	1	0	34	0	60	8	3	0	71	281
Total	12	18	10	0	0	40	2	54	89	2	0	147	3	28	263	0	0	294	1	115	32	7	0	155	3	191	69	11	0	274	910
8:00 AM	10	9	8	1	0	28	1	7	25	0	0	33	0	11	88	0	0	99	0	23	10	2	0	35	0	44	9	2	0	55	250
8:15 AM	11	6	5	0	0	22	0	13	24	0	0	37	0	4	92	0	0	96	1	18	6	1	0	26	1	56	14	2	0	73	254
8:30 AM	2	5	5	0	0	12	0	5	21	0	0	26	0	7	75	1	0	83	0	23	7	0	0	30	2	61	5	3	0	71	222
8:45 AM	5	3	6	1	0	15	2	7	24	0	0	33	1	10	79	0	0	90	0	26	6	4	0	36	1	55	6	2	0	64	238
Total	28	23	24	2	0	77	3	32	94	0	0	129	1	32	334	1	0	368	1	90	29	7	0	127	4	216	34	9	0	263	964
9:00 AM	7	7	1	0	0	15	1	6	10	0	0	17	0	6	61	0	0	67	0	20	3	2	0	25	0	46	9	1	0	56	180
9:15 AM	1	2	0	0	0	3	0	7	26	0	0	33	0	8	82	0	0	90	0	11	7	1	0	19	2	31	4	0	0	37	182
9:30 AM	4	2	1	0	0	7	1	6	20	0	0	27	0	2	49	0	0	51	0	14	3	0	0	17	2	41	6	0	0	49	151
9:45 AM	3	6	4	1	0	14	0	7	18	0	0	25	0	6	58	0	0	64	1	23	1	4	0	29	3	58	5	0	0	66	198
Total	15	17	6	1	0	39	2	26	74	0	0	102	0	22	250	0	0	272	1	68	14	7	0	90	7	176	24	1	0	208	711
10:00 AM	4	5	0	0	0	9	0	6	18	0	0	24	0	0	54	0	0	54	1	13	3	5	0	22	0	44	3	0	0	47	156
10:15 AM	1	5	3	0	0	9	0	5	20	0	0	25	0	3	52	0	0	55	1	15	3	0	0	19	2	33	10	1	0	46	154
10:30 AM	2	5	4	0	0	11	1	1	19	0	0	21	0	4	49	0	0	53	0	18	2	2	0	22	0	49	0	1	0	50	157
10:45 AM	1	5	4	0	0	10	0	5	17	0	0	22	0	4	51	0	0	55	0	9	0	1	0	10	2	39	9	0	0	50	147
Total	8	20	11	0	0	39	1	17	74	0	0	92	0	11	206	0	0	217	2	55	8	8	0	73	4	165	22	2	0	193	614
Grand Total	63	78	51	3	0	195	8	129	331	2	0	470	4	93	1053	1	0	1151	5	328	83	29	0	445	18	748	149	23	0	938	3199
Approach %	32.3	40.0	26.2	1.5	0.0		1.7	27.4	70.4	0.4	0.0		0.3	8.1	91.5	0.1	0.0		1.1	73.7	18.7	6.5	0.0		1.9	79.7	15.9	2.5	0.0		
Total %	2.0	2.4	1.6	0.1	0.0	6.1	0.3	4.0	10.3	0.1	0.0	14.7	0.1	2.9	32.9	0.0	0.0	36.0	0.2	10.3	2.6	0.9	0.0	13.9	0.6	23.4	4.7	0.7	0.0	29.3	
Exiting Leg Total						207						484						806						428						1274	3199

7:30 AM		1	Warren	Street				ŀ	larris A	venue				D	edham	Avenu	j				Warren	Street				E	edham	Avenue	j		
			from I	North				fr	om No	rtheast					from	East					from	South					from \	Vest			
	Right	Thru	Left	Hard Left	U-Turn	Total	Hard RighB	ear Righ B	ear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right	Bear Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn	Total	Total
7:30 AM	3	3	2	0	0	8	2	26	27	2	0	57	0	10	79	0	0	89	0	40	13	2	0	55	2	53	35	3	0	93	302
7:45 AM	6	8	5	0	0	19	0	18	37	0	0	55	0	14	88	0	0	102	1	21	11	1	0	34	0	60	8	3	0	71	281
8:00 AM	10	9	8	1	0	28	1	7	25	0	0	33	0	11	88	0	0	99	0	23	10	2	0	35	0	44	9	2	0	55	250
8:15 AM	11	6	5	0	0	22	0	13	24	0	0	37	0	4	92	0	0	96	1	18	6	1	0	26	1	56	14	2	0	73	254
Total Volume	30	26	20	1	0	77	3	64	113	2	0	182	0	39	347	0	0	386	2	102	40	6	0	150	3	213	66	10	0	292	1087
% Approach Total	39.0	33.8	26.0	1.3	0.0		1.6	35.2	62.1	1.1	0.0		0.0	10.1	89.9	0.0	0.0		1.3	68.0	26.7	4.0	0.0		1.0	72.9	22.6	3.4	0.0		
PHF	0.682	0.722	0.625	0.250	0.000	0.688	0.375	0.615	0.764	0.250	0.000	0.798	0.000	0.696	0.943	0.000	0.000	0.946	0.500	0.638	0.769	0.750	0.000	0.682	0.375	0.888	0.471	0.833	0.000	0.785	0.900
Entering Leg	30	26	20	1	0	77	J 3	64	113	2	0	182	0	39	347	0	0	386	2	102	40	6	0	150	3	213	66	10	0	292	1087
Exiting Leg						92						169						237						142						447	1087
Total						169						351						623						292						739	2174

Location: N: Warren Street S: Warren Street NE: Harris Avenue

Location: E: Dedham Avenue W: Dedham Avenue

City, State: Needham, MA
Client: GPI/ N.Rogers
Site Code: MAX-2017099.1

Count Date: Thursday, December 06, 2018

Start Time: 7:00 AM
End Time: 11:00 AM

Class:



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118

Light Goods Venicle com

			Warre	n Street				H	larris /	Avenue				I	Dedham	Avenue	:			,	Warre	Street				I	Dedhan	Avenu	e		1
			from	North				fr	om No	ortheast					from	East					from	South					from	West			L
	Right	Thru	Left	Hard Left	U-Turn	Total	Hard RighBe	ar Right B	lear Left	Hard Left	J-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right B	ear Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	2	1	0	0	3	0	0	9	0	0	9	0	2	0	0	0	2	0	5	0	0	0	5	19
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	C	0	1	9	0	0	10	0	0	1	0	0	1	0	7	0	0	0	7	18
7:30 AM	0	0	1	. 0	0	1	0	1	2	0	0	3	0	1	11	0	0	12	0	3	0	0	0	3	0	6	0	1	0	7	26
7:45 AM	0	0	0	0	0	0	0	1	3	0	0	4	0	1	5	0	0	6	0	3	1	0	0	4	1	7	0	0	0	8	22
Total	0	0	1	. 0	0	1	0	4	6	0	0	10	0	3	34	0	0	37	0	8	2	0	0	10	1	25	0	1	0	27	85
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	C	0	0	6	0	0	6	0	0	0	0	0	0	1	9	1	0	0	11	17
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	C	0	0	7	0	0	7	0	5	0	0	0	5	0	5	1	2	0	8	20
8:30 AM	0	1	0	0	0	1	0	1	0	0	1	2	0	0	8	0	0	8	0	0	0	1	0	1	0	5	0	0	0	5	17
8:45 AM	0	0	0	0	0	0	0	1	1	0	0	2	1	0	9	0	0	10	0	0	0	0	0	0	0	6	1	0	0	7	19
Total	0	1	0	0	0	1	0	2	1	0	1	4	1	0	30	0	0	31	0	5	0	1	0	6	1	25	3	2	0	31	73
9:00 AM	0	0	0	0	0	0	0	2	0	0	0	2	0	2	12	0	0	14	0	0	0	0	0	0	0	1	1	0	0	2	18
9:15 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	13	1	0	14	0	3	0	0	0	3	0	3	1	0	0	4	22
9:30 AM	0	0	0	0	0	0	0	2	1	0	0	3	0	0	13	0	0	13	0	2	0	0	0	2	0	12	1	0	0	13	31
9:45 AM	1	0	0	0	0	1	0	0	0	0	0	C	0	0	7	0	0	7	0	2	1	0	0	3	0	6	0	0	0	6	17
Total	1	0	0	0	0	1	0	4	2	0	0	6	0	2	45	1	0	48	0	7	1	0	0	8	0	22	3	0	0	25	88
10:00 AM	0	1	0	0	0	1	0	0	3	0	0	3	0	0	5	0	0	5	0	1	1	0	Ō	2	0	7	3	0	0	10	21
10:15 AM	0	1	0	0	0	1	0	0	3	0	0	3	0	1	4	0	0	5	0	2	1	0	0	3	0	9	1	2	0	12	24
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	C	0	1	7	0	0	8	0	1	0	1	0	2	1	5	1	0	0	7	17
10:45 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	9	0	0	9	0	0	1	1	0	2	0	5	2	0	0	7	20
Total	0	2	0	0	0	2	0	0	8	0	0	8	0	2	25	0	0	27	0	4	3	2	0	9	1	26	7	2	0	36	82
Grand Total		2				-	I 0	10	47	0		20		-	424			443	١ .	24		2		22	1 -	00	42	-	0	110	328
Approach %	20.0	60.0	20.0	. 0	0		_	10	17	0	3.0	28		40	134	0.7	0	143		24	10.2	3	0	33		98	13		0	119	328
Approach % Total %	20.0	60.0 0.9	20.0		0.0		0.0	35.7 3.0	60.7 5.2	0.0	3.6 0.3	8.5	0.7	4.9 2.1	93.7 40.9	0.7	0.0	43.6	0.0	72.7 7.3	18.2 1.8	9.1 0.9	0.0	10.1	2.5 0.9	82.4 29.9	10.9 4.0			36.3	l
Exiting Leg Total	0.5	0.5	0.5	0.0	0.0	18		5.0	J.L	3.0	3.3	39			10.5	0.5	0.0	99	_	7.5	1.0	0.5	0.0	24	_	23.3		1.5	0.0	148	328
. 0 .0						10	•					33						55						2.7						110	320

9:30 AM		,	Warre	n Street					larris A	venue				D	edham	Avenu	e				Warren	Street				D	edham	Avenue	2		
			from	North				fı	om No	rtheast					from	East					from	South					from \	West			
	Right	Thru	Left	Hard Left	U-Turn	Total	Hard RighB	ear Righ	lear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right	Bear Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn	Total	Total
9:30 AM	0	0	0	0	0	0	0	2	1	0	0	3	0	0	13	0	0	13	C	) 2	0	0	0	2	0	12	1	0	0	13	31
9:45 AM	1	0	0	0	0	1	0	0	0	0	0	0	0	0	7	0	0	7	C	) 2	1	0	0	3	0	6	0	0	0	6	17
10:00 AM	0	1	0	0	0	1	0	0	3	0	0	3	0	0	5	0	0	5	c	) 1	1	0	0	2	0	7	3	0	0	10	21
10:15 AM	0	1	0	0	0	1	0	0	3	0	0	3	0	1	4	0	0	5	C	) 2	1	0	0	3	0	9	1	2	0	12	24
Total Volume	1	2	0	0	0	3	0	2	7	0	0	9	0	1	29	0	0	30	C	) 7	3	0	0	10	0	34	5	2	0	41	93
% Approach Total	33.3	66.7	0.0	0.0	0.0		0.0	22.2	77.8	0.0	0.0		0.0	3.3	96.7	0.0	0.0		0.0	70.0	30.0	0.0	0.0		0.0	82.9	12.2	4.9	0.0		
PHF	0.250	0.500	0.000	0.000	0.000	0.750	0.000	0.250	0.583	0.000	0.000	0.750	0.000	0.250	0.558	0.000	0.000	0.577	0.000	0.875	0.750	0.000	0.000	0.833	0.000	0.708	0.417	0.250	0.000	0.788	0.750
Entering Leg	1	2	0	0	0	3	0	2	7	0	0	9	0	1	29	0	0	30	c	7	3	0	0	10	0	34	5	2	0	41	93
Exiting Leg						6						12						34						9						32	93
Total						9						21						64						19						73	186

Location: N: Warren Street S: Warren Street NE: Harris Avenue

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46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Email: data requests@pdillc.com

Class:

			Warre	Street				H	arris Av	enue					edham	Avenue	!			1	Warren	Street					Dedham .	Avenue	:		
			from	North				fr	om Nor	theast					from	East					from S	outh					from V	Vest			
	Right	Thru	Left	Hard Left	J-Turn	Total	Hard Righ Bea	ar Right B	ear Left Ha	ard Left U	-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right B	ear Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	1	0	1	0	0	0	1	3
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	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	15	0	0	0	15	0	1	0	0	0	1	16
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	1	0	0	1	0	1	0	0	0	1	4
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	16	1	0	0	17	0	3	0	0	0	3	23
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	2	0	0	0	2	3
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
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	1	0	0	0	1	1
8:45 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2
Total	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1	0	1	0	0	0	1	0	4	0	0	0	4	7
9:00 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	0	0	0	0
9:15 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	0	0	0	0
9:30 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	0	0	0	0
9:45 AM	0	0	1	0	0	1	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
Total	0	0	1	0	0	1	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
10:00 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	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
10:30 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	0	0	0	0
10:45 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	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	1	0	0	1	0	0	0	0	0	0	1
Grand Total	0	0	1	0	0	1	0	0	1	0	0	1	0	0	4	0	0	4	0	17	2	0	0	19	0	7	0	0	0	7	32
Approach %	0.0	0.0	100.0	0.0	0.0		0.0	0.0	100.0	0.0	0.0		0.0	0.0	100.0	0.0	0.0		0.0	89.5	10.5	0.0	0.0		0.0	100.0	0.0	0.0	0.0		
Total %	0.0	0.0	3.1	0.0	0.0	3.1	0.0	0.0	3.1	0.0	0.0	3.1	0.0	0.0	12.5	0.0	0.0	12.5	0.0	53.1	6.3	0.0	0.0	59.4	0.0	21.9	0.0	0.0	0.0	21.9	
Exiting Leg Total						2						17						8						1						4	32

					_																										
7:30 AM			Warrer	Street					Harris	Avenue				0	edham	Avenue	9				Warren	Street				D	edham	Avenue	9		l
			from	North					from No	ortheast					from	East					from	South					from \	West			
	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	Bear Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right	Bear Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	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	15	0	0	0	15	0	1	0	0	0	1	16
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	1	0	0	1	0	1	0	0	0	1	4
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	2	0	0	0	2	3
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	16	1	0	0	17	0	4	0	0	0	4	24
% 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	94.1	5.9	0.0	0.0		0.0	100.0	0.0	0.0	0.0		ш
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	0.375	0.000	0.000	0.375	0.000	0.267	0.250	0.000	0.000	0.283	0.000	0.500	0.000	0.000	0.000	0.500	0.375
		_	_	_	_	_		_	_	_	_	_		_	_	_	_	_				_	_				_	_	_		
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	16	1	0	0	17	0	4	0	0	0	4	24
Exiting Leg						1						16						4						0						3	24
Total						1						16						7						17						7	48

Location: N: Warren Street S: Warren Street NE: Harris Avenue

Location: E: Dedham Avenue W: Dedham Avenue

City, State: Needham, MA Client: GPI/ N.Rogers Site Code: MAX-2017099.1

Count Date: Thursday, December 06, 2018

Start Time: 7:00 AM End Time: 11:00 AM



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Single-Unite Frucks

Class:														Sin	gle-Un	iletru	cks.con	1													
		,	Warren	Street					Harris Av	enue				C	edham	Avenue	9			1	Warren	Street				D	edham A	Avenue	!		
			from N	lorth				f	rom Nor	theast					from	East					from	South					from V	Vest			
	Right	Thru	Left H	lard Left L	J-Turn	Total	Hard Righ Be	ar Righ	Bear Left H	ard Left (	J-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right Be	ear Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	1	0	0	1	0	2	0	0	0	2	5
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	0	0	6	0	1	0	0	0	1	0	2	0	0	0	2	9
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	8
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	0	4	0	0	0	4	10
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	2	20	0	0	22	0	1	1	0	0	2	0	8	0	0	0	8	32
8:00 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	3	0	0	3	0	0	1	0	0	1	0	0	0	0	0	0	6
8:15 AM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	4	0	0	4	0	0	0	0	0	0	0	3	0	0	0	3	8
8:30 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	3
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	1	0	0	1	0	1	0	0	0	1	6
Total	0	0	0	0	0	0	0	1	3	0	0	4	0	0	12	0	0	12	0	0	2	0	0	2	0	4	1	0	0	5	23
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	0	0	1	0	0	1	7
9:15 AM	0	1	0	0	0	1	0	0	1	0	0	1	0	1	7	0	0	8	0	0	0	0	0	0	0	7	0	0	0	7	17
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	4	0	0	0	1	0	1	0	2	0	1	0	3	8
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	4	0	0	0	0	0	0	0	5	0	0	0	5	9
Total	0	1	0	0	0	1	0	0	1	0	0	1	0	2	19	1	0	22	0	0	0	1	0	1	0	14	1	1	0	16	41
10:00 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	0	1	1	0	0	2	9
10:15 AM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	6	0	0	6	0	0	0	0	0	0	0	4	0	0	0	4	11
10:30 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	1	2	0	0	3	0	0	0	0	0	0	0	4	1	0	0	5	9
10:45 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	3
Total	0	0	2	0	0	2	0	1	3	0	0	4	0	1	13	0	0	14	0	0	0	0	0	0	0	10	2	0	0	12	32
Grand Total	0	1	2	0	0	3	0	2	7	0	0	9	0	5	64	1	0	70	0	1	3	1	Ō	5	0	36	4	1	0	41	128
Approach %	0.0	33.3	66.7	0.0	0.0		0.0	22.2	77.8	0.0	0.0		0.0	7.1	91.4	1.4	0.0		0.0	20.0	60.0	20.0	0.0		0.0	87.8	9.8	2.4	0.0		
Total %	0.0	0.8	1.6	0.0	0.0	2.3	0.0	1.6	5.5	0.0	0.0	7.0	0.0	3.9	50.0	0.8	0.0	54.7	0.0	0.8	2.3	0.8	0.0	3.9	0.0	28.1	3.1	0.8	0.0	32.0	
Exiting Leg Total						9						5						38						9						67	128
	•																														

						-																									
9:15 AM			Warrer	Street					Harris /	Avenue				0	edham	Avenue	9				Warren	Street				D	edham	Avenue	ā		
			from	North					from No	ortheast					from	East					from	South					from '	Vest			
	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Right	Bear Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right	Bear Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	Left	U-Turn	Total	Total
9:15 AM	0	1	0	0	0	1	. 0	0	1	0	0	1	0	1	7	0	0	8	0	0	0	0	0	0	0	7	0	0	0	7	17
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	4	0	0	0	1	0	1	0	2	0	1	0	3	8
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	4	0	0	0	0	0	0	0	5	0	0	0	5	9
10:00 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	0	1	1	0	0	2	9
Total Volume	0	1	2	0	0	3	0	0	1	0	0	1	0	2	18	1	0	21	0	0	0	1	0	1	0	15	1	1	0	17	43
% Approach Total	0.0	33.3	66.7	0.0	0.0		0.0	0.0	100.0	0.0	0.0		0.0	9.5	85.7	4.8	0.0		0.0	0.0	0.0	100.0	0.0		0.0	88.2	5.9	5.9	0.0		
PHF	0.000	0.250	0.250	0.000	0.000	0.375	0.000	0.000	0.250	0.000	0.000	0.250	0.000	0.500	0.643	0.250	0.000	0.656	0.000	0.000	0.000	0.250	0.000	0.250	0.000	0.536	0.250	0.250	0.000	0.607	0.632
e I													١.		40											45				1	40
Entering Leg	U	1	2	U	U	3	0	U	1	0	U	1	0	2	18	1	0	21	0	0	0	1	0	1	0	15	1	1	U	17	43
Exiting Leg						3	1					1						17						3						19	43
Total						6	i					2						38						4						36	86

Location: N: Warren Street S: Warren Street NE: Harris Avenue

Location: E: Dedham Avenue W: Dedham Avenue

City, State: Needham, MA Client: GPI/ N.Rogers Site Code: MAX-2017099.1

Count Date: Thursday, December 06, 2018

Start Time: 7:00 AM End Time: 11:00 AM



46 Morton Street, Framingham, MA Office: 508 875 0100 Fax508-875-0118

Class:														Anti	culate	d Tru	cks.com														
			Warre	Street				H	Harris Av	enue				D	edham	Avenue	!			١	Varren	Street				D	edham A	Avenue	!		
			from	North				fr	om Nor	theast					from	East					from S	outh					from V	Vest			
	Right	Thru	Left	Hard Left	J-Turn	Total	Hard RighBe	ar Right B	lear Left H	ard Left (	J-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right Be	ar Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	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	0	0	0	0	0	0	0	1	0	0	1	1
7:15 AM	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	3
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	1	0	0	0	0	1	0	0	2	0	0	2	0	0	0	0	0	0	0	2	1	0	0	3	6
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	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
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	2	0	0	0	2	2
Total	0	0	0	0	0	0	0	0	2	0	0	2	0	0	1	0	0	1	0	0	0	0	0	0	0	2	0	0	0	2	5
9:00 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	1	0	0	0	1	1
9:15 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	1	0	0	0	1	1
9:30 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	1	0	0	0	1	1
9:45 AM	0		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	3	0	0	0	3	4
10:00 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	0	0	0	0
10:15 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	0	0	0	0
10:30 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	0	0	0	0
10:45 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	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
Grand Total	l 0	0	0	0	0	0	l 1	0	2	0	0	2	0	0	4	0	0	4	0	0	0	0	0	0	0	7	1	0	0	اه	15
Approach %				-		Ü	22.2	0.0	CC 7			,		0.0	100.0			7	_	-		-		U	_	07.5	42.5	0.0		Ů	13
Approach % Total %	0.0	0.0	0.0	0.0	0.0	0.0	33.3 6.7	0.0	66.7 13.3	0.0	0.0	20.0	0.0	0.0	100.0 26.7	0.0	0.0	26.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.5 46.7	12.5 6.7	0.0	0.0	53.3	
Exiting Leg Total	0.0	0.0	0.0	3.0	5.0	0.0	5.7	0.0	13.3	5.0	5.0	1	0.0	0.0	20.7	0.0	3.0	20.7	5.0	0.0	5.0	3.0	5.0	2.0	0.0	.0.7	5.7	5.0	3.0	33.3	15
Exiting Leg Total	I					1						1	l					,	l					2	l					4	15

Peak Hour	Analysis	from	07:00	ANA to	11.00	Λ N Λ	hegine at:
reak noui	Allalysis	11 0111	07.00	AIVI LU	11.00	MIVI	Degins at.

· .					_																										
7:00 AM			Warrer	Street					Harris	Avenue				D	edham	Avenue	9				Warrer	Street				D	edham	Avenu	е		
			from	North					from No	ortheast					from	East					from	South					from \	Vest			
	Right	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	Bear Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Thru	Left	U-Turn	Total	Right	Bear Righ	Thru	Left	U-Turn	Total	Right	Thru	Bear Left	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	0	0	0	0	0	0	0	1	0	0	1	1
7:15 AM	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	3
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total Volume	0	0	0	0	0	0	1	0	0	0	0	1	0	0	2	0	0	2	0	0	0	0	0	0	0	2	1	0	0	3	6
% Approach Total	0.0	0.0	0.0	0.0	0.0		100.0	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		0.0	66.7	33.3	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.500	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.250	0.000	0.000	0.375	0.500
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Entering Leg	0	0	0	0	0	0	1	0	0	0	0	1	0	0	2	0	0	2	0	0	0	0	0	0	0	2	1	0	0	3	6
Exiting Leg						1						1						2						0						2	6
Total						1						2						4						0						5	12

Location: N: Warren Street S: Warren Street NE: Harris Avenue

Location: E: Dedham Avenue W: Dedham Avenue

Client: Needham, MA
Client: GPI/ N.Rogers
Site Code: MAX-2017099.1

Count Date: Thursday, December 06, 2018

Start Time: 7:00 AM
End Time: 11:00 AM



46 Morton Street, Framingham, MA 01702 Office: 508-875-0100 Fax: 508-875-0118 Emailsdamrequests@pdillc.com

Class:																		Em	iai <b>p</b> ea	dest	rian	<b>S</b> paili	c.com																		
			Wa	irren	Stree	t					Har	ris A	venue	j					Ded	ham <i>i</i>	Aveni	ne					Wa	irren	Stree	t					Dec	lham	Aver	nue			
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# **APPENDIX**

- A. Preliminary High-Risk Crosswalk Locations Report
- B. Crosswalk Inventory Attribute Lists & Maps
- C. Traffic Counts
- D. MassDOT Crash Data

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Crash Date 2/11/2012	Crash Time	Crash Severity  1 Property damage only (none injured)	Maximum Injury Severity Reported No injury	Manner of Collision Single vehicle crash	First Harmful Event Collision with utility pole	Driver Contributing Codes D1:(Fatigued/asleep),(Failure to keep in proper lane or	Road Surface Wet	Ambient Light  Dark - lighted roadway	Weather Condition Sleet, hail (freezing rain or drizzle)	Roadway  GREENDALE AVENUE
2/11/2012		1 Non-fatal injury	Non-fatal injury - Non-incapacitating	Angle	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Unknown)	Wet	Dark - lighted roadway	Rain/Rain	CHESTNUT STREET / SOUTH STREET
1/16/2012		1 Property damage only (none injured)	No injury	Single vehicle crash	Collision with other	D1:(No improper driving) b2:(Onknown)  D1:(Failure to keep in proper lane or running off road)	Dry	Dark - lighted roadway	Clear/Clear	SOUTH STREET
1/3/2012		1 Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Failed to yield right of way) D2:(No improper driving)	Dry	Dark - lighted roadway	Clear	WEST STREET
8/24/2012		1 Property damage only (none injured)	No injury	Angle	Collision with curb	D1:(No improper driving)	Dry	Dark - lighted roadway	Clear	WARREN STREET / SCHOOL STREET
4/8/2012		1 Non-fatal injury	Non-fatal injury - Incapacitating	Single vehicle crash	Collision with utility pole	D1:(Over-correcting/over-steering)	Dry	Dark - lighted roadway	Clear	SECOND AVENUE / A STREET
11/10/2012		1 Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Failed to yield right of way) D2:(No improper driving)	Dry	Dark - lighted roadway	Clear	CHARLES RIVER STREET / GROVE STREET
11/10/2012		i roperty damage omy (none mjared)	ite injuly	7 mg/c	Complete With Motor Vernice in traine	D1:(No improper driving) D2:(Driving too fast for	5.7	Dank Inginica rodaway	o.ca.	OF MILES HIVE STREET / CHOTE STREET
11/7/2012	5:45 PM	1 Non-fatal injury	Non-fatal injury - Non-incapacitating	Head-on	Collision with motor vehicle in traffic	conditions),(Over-correcting/over-steering)	Snow	Dark - lighted roadway	Snow/Blowing sand, snow	CHARLES RIVER STREET / PINE STREET
11/6/2012		1 Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	D1:(Followed too closely) D2:(No improper driving)	Dry	Dark - lighted roadway	Clear	CENTRAL AVENUE / NEHOIDEN STREET
12/11/2012		Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Failed to yield right of	Dry	Dark - lighted roadway	Clear	WEST STREET
11/8/2012		Non-fatal injury	Non-fatal injury - Incapacitating	Not reported	Collision with pedestrian	D1:(Disregarded traffic signs, signals, road markings),(Failed		Dark - lighted roadway	Rain	WEBSTER STREET
11/0/2012	,	, intermediately	Tron ratar injury interpretating	Hotreported	compon war peacetran	D1:(No improper driving) D2:(Swerving or avoiding due to		Dank Inginica rodawa)	Train and the state of the stat	WESSTEN STREET
12/15/2012	3:45 PM	1 Non-fatal injury	Non-fatal injury - Possible	Angle	Collision with motor vehicle in traffic	wind, slippery surface, vehicle, object, non-motorist in	Dry	Dark - lighted roadway	Clear/Clear	GREAT PLAIN AVENUE / MARKED TREE ROAD
1/13/2012		1 Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Failed to yield right of way) D2:(No improper driving)	Wet	Dark - lighted roadway	Cloudy	HIGHLAND AVENUE
4/11/2012		Property damage only (none injured)	No injury	Sideswipe, same direction	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(No improper driving)	Dry	Dark - lighted roadway	Clear/Clear	HIGHLAND AVENUE / SECOND AVENUE
		. , , . , . , . , . , . , . , . , .		· ·		D1:(Operating vehicle in erratic, reckless, careless, negligent	,	,	,	·
8/18/2012	10:42 PM	Property damage only (none injured)	No injury	Sideswipe, same direction	Collision with parked motor vehicle	or aggressive manner) D2:(No improper driving)	Dry	Dark - lighted roadway	Cloudy	GREAT PLAIN AVENUE
11/28/2012	5:14 PM	1 Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	D1:(Inattention) D2:(No improper driving) D3:(No improper	Dry	Dark - lighted roadway	Clear	GREENDALE AVENUE
11/1/2012	6:10 PM	Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	D1:(Followed too closely) D2:(No improper driving) D3:(No	Dry	Dark - lighted roadway	Clear	HIGHLAND AVENUE / Rte 95
11/13/2012	5:14 PM	Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Failed to yield right of way) D2:(No improper driving)	Wet	Dark - lighted roadway	Rain	CENTRAL AVENUE / RESERVOIR STREET
1/17/2012	7:57 PM	Property damage only (none injured)	No injury	Single vehicle crash	Collision with pedestrian	D1:(Failed to yield right of way),(Failure to keep in proper	Wet	Dark - lighted roadway	Cloudy/Rain	GREAT PLAIN AVENUE / LINDEN STREET
1/3/2012	7:19 PM	Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	D1:(Unknown) D2:(No improper driving) D3:()	Dry	Dark - lighted roadway	Clear	HIGHLAND AVENUE / WEBSTER STREET
3/6/2012	7:40 PM	Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Failed to yield right of way)	Dry	Dark - lighted roadway	Clear	HILLSIDE AVENUE / HUNNEWELL STREET
										HIGHLAND AVENUE / WEST STREET /
5/16/2012		Property damage only (none injured)	No injury	Single vehicle crash	Collision with median barrier	D1:(Over-correcting/over-steering)	Dry	Dark - lighted roadway	Clear/Clear	HIGHLAND AVENUE
5/31/2012	2:16 AM	Property damage only (none injured)	No injury	Single vehicle crash	Collision with curb	D1:(Exceeded authorized speed limit),(Failure to keep in	Dry	Dark - lighted roadway	Cloudy	HILLSIDE AVENUE
						D1:(Failure to keep in proper lane or running off road)				
6/14/2012	9:34 PM	1 Property damage only (none injured)	No injury	Sideswipe, same direction	Collision with motor vehicle in traffic	D2:(Failure to keep in proper lane or running off road)	Dry	Dark - lighted roadway	Clear	WEBSTER STREET / HARRIS AVENUE
6/23/2012	9:56 PM	1 Non-fatal injury	Non-fatal injury - Possible	Single vehicle crash	Collision with utility pole	D1:(Failure to keep in proper lane or running off	Dry	Dark - lighted roadway	Clear	CHESTNUT STREET
						D1:(Exceeded authorized speed limit),(Operating vehicle in				
6/28/2012	3:33 AM	1 Property damage only (none injured)	No injury	Single vehicle crash	Collision with tree	erratic, reckless, careless, negligent or aggressive manner)	Dry	Dark - lighted roadway	Clear	HYDE PARK WOODS
						D1:(Swerving or avoiding due to wind, slippery surface,				
9/4/2012	12:11 AM	1 Property damage only (none injured)	No injury	Single vehicle crash	Collision with curb	vehicle, object, non-motorist in roadway, etc)	Dry	Dark - lighted roadway	Clear	CHESTNUT STREET
					Collision with pedalcycle (bicycle, tricycle,					
9/16/2012	7:13 PM	1 Property damage only (none injured)	No injury	Single vehicle crash	unicycle, pedal car)	D1:()	Dry	Dark - lighted roadway	Clear	HIGHLAND AVENUE / ROSEMARY STREET
9/11/2012	3:15 AM	Property damage only (none injured)	No injury	Unknown	Collision with parked motor vehicle	D1:(No improper driving)	Dry	Dark - lighted roadway	Clear	HIGHLAND AVENUE / WEBSTER STREET
10/29/2012	12:20 AM	1 Non-fatal injury	Non-fatal injury - Non-incapacitating	Single vehicle crash	Collision with curb	D1:(Driving too fast for conditions)	Wet	Dark - lighted roadway	Rain	SECOND AVENUE
10/18/2012	6:22 PM	Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Failed to yield right of way)	Dry	Dark - lighted roadway	Clear	HIGHLAND AVENUE / ARBOR STREET
						D1:(Failure to keep in proper lane or running off				
11/20/2012		1 Property damage only (none injured)	No injury	Single vehicle crash	Not reported	road),(Operating vehicle in erratic, reckless, careless,	Dry	Dark - lighted roadway	Clear	MAPLE STREET
11/30/2012	5:20 PM	1 Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Failed to yield right of way) D2:(No improper driving)	Dry	Dark - lighted roadway	Clear	CENTRAL AVENUE / FOREST STREET
						D1:(No improper driving) D2:(Driving too fast for				
11/7/2012		1 Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	conditions),(Followed too closely)	Snow	Dark - lighted roadway	Snow	CENTRAL AVENUE / HUNNEWELL STREET
11/3/2012		1 Property damage only (none injured)	No injury	Single vehicle crash	Collision with tree	D1:(Failure to keep in proper lane or running off	Dry	Dark - lighted roadway	Clear	CENTRAL AVENUE
11/9/2012	5:58 PM	1 Property damage only (none injured)	No injury	Single vehicle crash	Collision with other light pole or other	D1:(Disregarded traffic signs, signals, road markings)	Dry	Dark - lighted roadway	Clear	HIGHLAND AVENUE / GOULD STREET
1/12/2012		1 Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Failed to yield right of way) D2:(No improper driving)	Wet	Dark - lighted roadway	Cloudy	HIGHLAND AVENUE / HUNNEWELL STREET
2/22/2012		1 Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Failed to yield right of way) D2:(Failed to yield right of	<u> </u>	Dark - lighted roadway	Clear	HUNTING ROAD / KENDRICK STREET
2/21/2012	9:55 PM	1 Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Inattention),(Distracted)	Dry	Dark - lighted roadway	Clear	FOURTH AVENUE / KENDRICK STREET
1/18/2012	6:11 PM	1 Property damage only (none injured)	No injury	Not reported	Collision with motor vehicle in traffic	D1:(Inattention) D2:(No improper driving)	Dry	Dark - lighted roadway	Clear	HIGH ROCK STREET / MARKED TREE ROAD
						D1:(Swerving or avoiding due to wind, slippery surface,				
						vehicle, object, non-motorist in roadway, etc) D2:(Swerving		L		
1/16/2012		1 Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	or avoiding due to wind, slippery surface, vehicle, object,	Snow	Dark - lighted roadway	Cloudy/Snow	CENTRAL AVENUE / WEST STREET
1/31/2012	6:05 PM	1 Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	D1:(Followed too closely) D2:(No improper driving)	ury	Dark - lighted roadway	Clear	HIGHLAND AVENUE
4/27/2042	C 00 0: -	1 Proporty domass sale/as 1 1 P	No injune	Anglo	Collision with restaurables 1 1 10	D1:(Disregarded traffic signs, signals, road markings) D2:(No		Dark lighted	Dain	CHESTNUT STREET / GREAT PLAIN AVENUE
1/27/2012		1 Property damage only (none injured) 1 Property damage only (none injured)	No injury No injury	Angle Sideswipe, opposite direction	Collision with motor vehicle in traffic	improper driving)	Wet	Dark - lighted roadway  Dark - lighted roadway	Rain Clear	WEST STREET / HIGHLAND AVENUE
3/27/2012								mark - honted roadway	Lciear	WEST STREET / HIGHLAND AVENUE
	8.13 PIVI	Froperty damage only (none injured)	NO IIIJul y	sideswipe, opposite direction	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Failed to yield right of way)	+ '	Dark lighted roddway		
2/19/2012						D1:(Operating vehicle in erratic, reckless, careless, negligent	,		Clear/Clear	WOODRINE CIRCLE
3/18/2012		1 Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic  Collision with parked motor vehicle	1 1 0, 1 7 0 7	+ '	Dark - lighted roadway	Clear/Clear	WOODBINE CIRCLE
, ,	10:46 PM	1 Property damage only (none injured)	No injury	Angle	Collision with parked motor vehicle	D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Inattention) D2:(No improper	Dry	Dark - lighted roadway		GROSVENOR ROAD / BROAD MEADOW
3/1/2012	10:46 PM 6:00 PM	1 Property damage only (none injured) 1 Property damage only (none injured)	No injury No injury	Angle Single vehicle crash	Collision with parked motor vehicle  Collision with unknown fixed object	D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Inattention) D2:(No improper D1:(No improper driving)	Dry	Dark - lighted roadway  Dark - lighted roadway	Snow/Sleet, hail (freezing rain or drizzle)	GROSVENOR ROAD / BROAD MEADOW ROAD
, ,	10:46 PM 6:00 PM	1 Property damage only (none injured)	No injury	Angle	Collision with parked motor vehicle	D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Inattention) D2:(No improper D1:(No improper driving) D1:(Unknown) D2:(No improper driving)	Dry Snow Snow	Dark - lighted roadway		GROSVENOR ROAD / BROAD MEADOW
3/1/2012 3/1/2012	10:46 PM 6:00 PM 5:38 PM	Property damage only (none injured) Property damage only (none injured) Property damage only (none injured)	No injury  No injury  No injury	Angle Single vehicle crash Rear-end	Collision with parked motor vehicle  Collision with unknown fixed object  Collision with motor vehicle in traffic	D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Inattention) D2:(No improper  D1:(No improper driving) D1:(Unknown) D2:(No improper driving) D1:(Operating vehicle in erratic, reckless, careless, negligent	Dry Snow Snow	Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway	Snow/Sleet, hail (freezing rain or drizzle) Cloudy/Snow	GROSVENOR ROAD / BROAD MEADOW ROAD HIGHLAND AVENUE
3/1/2012 3/1/2012 9/28/2012	10:46 PM 6:00 PM 5:38 PM 2:21 PM	Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Non-fatal injury	No injury  No injury  No injury  Non-fatal injury - Non-incapacitating	Angle Single vehicle crash Rear-end Angle	Collision with parked motor vehicle  Collision with unknown fixed object  Collision with motor vehicle in traffic  Collision with utility pole	D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Inattention) D2:(No improper D1:(No improper driving) D1:(Unknown) D2:(No improper driving) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Physical impairment) D2:(No	Dry Snow Snow Dry	Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway	Snow/Sleet, hail (freezing rain or drizzle) Cloudy/Snow Clear	GROSVENOR ROAD / BROAD MEADOW ROAD HIGHLAND AVENUE CHESTNUT STREET
3/1/2012 3/1/2012 9/28/2012 10/1/2012	10:46 PM 6:00 PM 5:38 PM 2:21 PM 7:40 AM	Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Non-fatal injury Not Reported	No injury  No injury  No injury  Non-fatal injury - Non-incapacitating  Not Applicable	Angle Single vehicle crash Rear-end Angle Angle Angle	Collision with parked motor vehicle  Collision with unknown fixed object Collision with motor vehicle in traffic  Collision with utility pole Collision with motor vehicle in traffic	D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Inattention) D2:(No improper D1:(No improper driving) D1:(Unknown) D2:(No improper driving) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Physical impairment) D2:(No D1:() D2:()	Dry Snow Snow Dry Dry	Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway	Snow/Sleet, hail (freezing rain or drizzle) Cloudy/Snow Clear Clear	GROSVENOR ROAD / BROAD MEADOW ROAD HIGHLAND AVENUE CHESTNUT STREET HIGHLAND AVENUE / CHARLES STREET
3/1/2012 3/1/2012 9/28/2012 10/1/2012 10/13/2012	10:46 PM 6:00 PM 5:38 PM 2:21 PM 7:40 AM 1:25 AM	Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Non-fatal injury Not Reported Property damage only (none injured)	No injury  No injury  No injury  Non-fatal injury - Non-incapacitating  Not Applicable  No injury	Angle Single vehicle crash Rear-end Angle Angle Single vehicle crash	Collision with parked motor vehicle  Collision with unknown fixed object Collision with motor vehicle in traffic  Collision with utility pole Collision with motor vehicle in traffic Collision with tree	D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Inattention) D2:(No improper D1:(No improper driving) D1:(Unknown) D2:(No improper driving) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Physical impairment) D2:(No D1:() D2:() D1:(Driving too fast for conditions)	Dry Snow Snow Dry Dry Wet	Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway	Snow/Sleet, hail (freezing rain or drizzle) Cloudy/Snow Clear Clear Cloudy/Rain	GROSVENOR ROAD / BROAD MEADOW ROAD HIGHLAND AVENUE  CHESTNUT STREET HIGHLAND AVENUE / CHARLES STREET BROOKSIDE ROAD
3/1/2012 3/1/2012 9/28/2012 10/1/2012	10:46 PM 6:00 PM 5:38 PM 2:21 PM 7:40 AM 1:25 AM	Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Non-fatal injury Not Reported	No injury  No injury  No injury  Non-fatal injury - Non-incapacitating  Not Applicable	Angle Single vehicle crash Rear-end Angle Angle Angle	Collision with parked motor vehicle  Collision with unknown fixed object Collision with motor vehicle in traffic  Collision with utility pole Collision with motor vehicle in traffic	D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Inattention) D2:(No improper D1:(No improper driving) D1:(Unknown) D2:(No improper driving) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Physical impairment) D2:(No D1:() D2:()	Dry Snow Snow Dry Dry	Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway	Snow/Sleet, hail (freezing rain or drizzle) Cloudy/Snow Clear Clear	GROSVENOR ROAD / BROAD MEADOW ROAD HIGHLAND AVENUE  CHESTNUT STREET HIGHLAND AVENUE / CHARLES STREET BROOKSIDE ROAD CHARLES RIVER STREET
3/1/2012 3/1/2012 9/28/2012 10/1/2012 10/13/2012 10/30/2012	10:46 PM 6:00 PM 5:38 PM 2:21 PM 7:40 AM 1:25 AM 9:12 PM	Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Non-fatal injury Not Reported Property damage only (none injured) Non-fatal injury	No injury  No injury  No injury  Non-fatal injury - Non-incapacitating  Not Applicable  No injury  Non-fatal injury - Possible	Angle Single vehicle crash Rear-end Angle Angle Single vehicle crash Single vehicle crash	Collision with parked motor vehicle  Collision with unknown fixed object Collision with motor vehicle in traffic  Collision with utility pole Collision with motor vehicle in traffic Collision with tree Collision with utility pole	D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Inattention) D2:(No improper  D1:(No improper driving)  D1:(Unknown) D2:(No improper driving)  D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Physical impairment) D2:(No  D1:() D2:()  D1:(Driving too fast for conditions)  D1:()	Dry Snow Snow Dry Dry Dry Dry Wet Dry	Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway	Snow/Sleet, hail (freezing rain or drizzle) Cloudy/Snow Clear Clear Cloudy/Rain Clear	GROSVENOR ROAD / BROAD MEADOW ROAD HIGHLAND AVENUE  CHESTNUT STREET HIGHLAND AVENUE / CHARLES STREET BROOKSIDE ROAD CHARLES RIVER STREET GREAT PLAIN AVENUE Rte 135 W / GARDEN
3/1/2012 3/1/2012 9/28/2012 10/1/2012 10/13/2012	10:46 PM 6:00 PM 5:38 PM 2:21 PM 7:40 AM 1:25 AM 9:12 PM	Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Non-fatal injury Not Reported Property damage only (none injured)	No injury  No injury  No injury  Non-fatal injury - Non-incapacitating  Not Applicable  No injury	Angle Single vehicle crash Rear-end Angle Angle Single vehicle crash	Collision with parked motor vehicle  Collision with unknown fixed object Collision with motor vehicle in traffic  Collision with utility pole Collision with motor vehicle in traffic Collision with tree	D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Inattention) D2:(No improper D1:(No improper driving) D1:(Unknown) D2:(No improper driving) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Physical impairment) D2:(No D1:() D2:() D1:(Driving too fast for conditions) D1:() D1:(No improper driving) D2:(Followed too closely)	Dry Snow Snow Dry Dry Wet	Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway	Snow/Sleet, hail (freezing rain or drizzle) Cloudy/Snow Clear Clear Cloudy/Rain	GROSVENOR ROAD / BROAD MEADOW ROAD HIGHLAND AVENUE  CHESTNUT STREET HIGHLAND AVENUE / CHARLES STREET BROOKSIDE ROAD CHARLES RIVER STREET
3/1/2012 3/1/2012 9/28/2012 10/1/2012 10/13/2012 10/30/2012 10/30/2012	10:46 PM 6:00 PM 5:38 PM 2:21 PM 7:40 AM 1:25 AM 9:12 PM 6:39 PM	Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Non-fatal injury Not Reported Property damage only (none injured) Non-fatal injury	No injury  No injury  No injury  Non-fatal injury - Non-incapacitating  Not Applicable  No injury  Non-fatal injury - Possible  No injury	Angle Single vehicle crash Rear-end Angle Angle Single vehicle crash Single vehicle crash Rear-end	Collision with parked motor vehicle  Collision with unknown fixed object  Collision with motor vehicle in traffic  Collision with utility pole  Collision with motor vehicle in traffic  Collision with tree  Collision with utility pole  Collision with utility pole	D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Inattention) D2:(No improper D1:(No improper driving) D1:(Unknown) D2:(No improper driving) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Physical impairment) D2:(No D1:() D2:() D1:(Driving too fast for conditions) D1:() D1:(No improper driving) D2:(Followed too closely) D1:(No improper driving) D2:(Disregarded traffic signs,	Dry Snow Snow Dry Dry Dry Wet Dry Wet	Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway	Snow/Sleet, hail (freezing rain or drizzle) Cloudy/Snow Clear Clear Cloudy/Rain Clear Rain	GROSVENOR ROAD / BROAD MEADOW ROAD HIGHLAND AVENUE  CHESTNUT STREET HIGHLAND AVENUE / CHARLES STREET BROOKSIDE ROAD CHARLES RIVER STREET GREAT PLAIN AVENUE Rte 135 W / GARDEN STREET
3/1/2012 3/1/2012 9/28/2012 10/1/2012 10/13/2012 10/30/2012 10/30/2012	10:46 PM 6:00 PM 5:38 PM 2:21 PM 7:40 AM 1:25 AM 9:12 PM 6:39 PM	Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Non-fatal injury Property damage only (none injured) Non-fatal injury Property damage only (none injured) Property damage only (none injured)	No injury  No injury  No injury  Non-fatal injury - Non-incapacitating  Not Applicable  No injury  Non-fatal injury - Possible  No injury  No injury	Angle Single vehicle crash Rear-end Angle Angle Single vehicle crash Single vehicle crash Rear-end Sideswipe, opposite direction	Collision with parked motor vehicle  Collision with unknown fixed object Collision with motor vehicle in traffic  Collision with utility pole Collision with motor vehicle in traffic Collision with tree Collision with utility pole  Collision with utility pole  Collision with motor vehicle in traffic  Collision with motor vehicle in traffic	D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Inattention) D2:(No improper D1:(No improper driving) D1:(Unknown) D2:(No improper driving) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Physical impairment) D2:(No D1:() D2:() D1:(Driving too fast for conditions) D1:() D1:(No improper driving) D2:(Followed too closely) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings),(Inattention)	Dry Snow Snow Dry Dry Dry Wet Dry Wet Wet	Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway	Snow/Sleet, hail (freezing rain or drizzle) Cloudy/Snow Clear Clear Cloudy/Rain Clear Rain Cloudy/Rain	GROSVENOR ROAD / BROAD MEADOW ROAD HIGHLAND AVENUE  CHESTNUT STREET HIGHLAND AVENUE / CHARLES STREET BROOKSIDE ROAD CHARLES RIVER STREET GREAT PLAIN AVENUE REE 135 W / GARDEN STREET  CENTRAL AVENUE / NEHOIDEN STREET
3/1/2012 3/1/2012 9/28/2012 10/1/2012 10/13/2012 10/30/2012 10/30/2012 10/30/2012 10/30/2012	10:46 PM 6:00 PM 5:38 PM 2:21 PM 7:40 AM 1:25 AM 9:12 PM 6:39 PM 6:07 PM 5:04 PM	Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Non-fatal injury Not Reported Property damage only (none injured) Non-fatal injury Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Not Reported	No injury  No injury  No injury  Non-fatal injury - Non-incapacitating  Not Applicable  No injury  Non-fatal injury - Possible  No injury  No injury  No injury  No injury  No injury	Angle Single vehicle crash Rear-end Angle Angle Single vehicle crash Single vehicle crash Single vehicle crash Rear-end Sideswipe, opposite direction Rear-end	Collision with parked motor vehicle  Collision with unknown fixed object Collision with motor vehicle in traffic  Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with tree Collision with utility pole  Collision with motor vehicle in traffic  Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic	D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Inattention) D2:(No improper D1:(No improper driving) D1:(Unknown) D2:(No improper driving) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Physical impairment) D2:(No D1:() D2:() D1:(Driving too fast for conditions) D1:() D1:(No improper driving) D2:(Followed too closely) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings),(Inattention) D1:(Unknown) D2:(No improper driving)	Dry Snow Snow Dry Dry Dry Wet Dry Wet Wet Wet	Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway	Snow/Sleet, hail (freezing rain or drizzle) Cloudy/Snow  Clear Clear Cloudy/Rain Clear Rain Cloudy/Rain Rain/Other	GROSVENOR ROAD / BROAD MEADOW ROAD HIGHLAND AVENUE  CHESTNUT STREET HIGHLAND AVENUE / CHARLES STREET BROOKSIDE ROAD CHARLES RIVER STREET GREAT PLAIN AVENUE Rte 135 W / GARDEN STREET  CENTRAL AVENUE / NEHOIDEN STREET WEBSTER STREET
3/1/2012 3/1/2012 9/28/2012 10/1/2012 10/13/2012 10/30/2012 10/30/2012 10/30/2012 10/30/2012 10/28/2012 10/26/2012	10:46 PM 6:00 PM 5:38 PM 2:21 PM 7:40 AM 1:25 AM 9:12 PM 6:39 PM 6:07 PM 5:04 PM 10:41 PM	Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Non-fatal injury Not Reported Property damage only (none injured) Non-fatal injury Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Not Reported Property damage only (none injured)	No injury  No injury  Non-fatal injury - Non-incapacitating  Not Applicable  No injury  Non-fatal injury - Possible  No injury  No injury  No injury  No injury  No injury	Angle Single vehicle crash Rear-end Angle Angle Single vehicle crash Single vehicle crash Single vehicle crash Rear-end Sideswipe, opposite direction Rear-end Single vehicle crash	Collision with parked motor vehicle  Collision with unknown fixed object Collision with motor vehicle in traffic  Collision with utility pole Collision with motor vehicle in traffic Collision with tree Collision with utility pole  Collision with motor vehicle in traffic  Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic	D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Inattention) D2:(No improper D1:(No improper driving) D1:(Unknown) D2:(No improper driving) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Physical impairment) D2:(No D1:() D2:() D1:(Driving too fast for conditions) D1:() D1:(No improper driving) D2:(Followed too closely) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings),(Inattention) D1:(Unknown) D2:(No improper driving) D2:(Disregarded traffic signs, b1:(No improper driving) D2	Dry Snow Snow Dry Dry Wet Dry Wet Wet Wet Wet Dry	Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway	Snow/Sleet, hail (freezing rain or drizzle) Cloudy/Snow  Clear Clear Cloudy/Rain Clear Rain Cloudy/Rain Rain/Other Clear	GROSVENOR ROAD / BROAD MEADOW ROAD HIGHLAND AVENUE  CHESTNUT STREET HIGHLAND AVENUE / CHARLES STREET BROOKSIDE ROAD CHARLES RIVER STREET GREAT PLAIN AVENUE REE 135 W / GARDEN STREET  CENTRAL AVENUE / NEHOIDEN STREET WEBSTER STREET KENDRICK STREET / HUNTING ROAD
3/1/2012 3/1/2012 9/28/2012 10/1/2012 10/13/2012 10/30/2012 10/30/2012 10/30/2012 10/30/2012	10:46 PM 6:00 PM 5:38 PM 2:21 PM 7:40 AM 1:25 AM 9:12 PM 6:39 PM 6:07 PM 5:04 PM 10:41 PM	Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Non-fatal injury Not Reported Property damage only (none injured) Non-fatal injury Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Not Reported	No injury  No injury  No injury  Non-fatal injury - Non-incapacitating  Not Applicable  No injury  Non-fatal injury - Possible  No injury  No injury  No injury  No injury  No injury	Angle Single vehicle crash Rear-end Angle Angle Single vehicle crash Single vehicle crash Single vehicle crash Rear-end Sideswipe, opposite direction Rear-end	Collision with parked motor vehicle  Collision with unknown fixed object Collision with motor vehicle in traffic  Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with tree Collision with utility pole  Collision with motor vehicle in traffic  Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic	D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Inattention) D2:(No improper D1:(No improper driving) D1:(Unknown) D2:(No improper driving) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Physical impairment) D2:(No D1:() D2:() D1:(Driving too fast for conditions) D1:() D1:(No improper driving) D2:(Followed too closely) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings),(Inattention) D1:(Unknown) D2:(No improper driving)	Dry Snow Snow Dry Dry Dry Wet Dry Wet Wet Wet	Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway	Snow/Sleet, hail (freezing rain or drizzle) Cloudy/Snow  Clear Clear Cloudy/Rain Clear Rain Cloudy/Rain Rain/Other	GROSVENOR ROAD / BROAD MEADOW ROAD HIGHLAND AVENUE  CHESTNUT STREET HIGHLAND AVENUE / CHARLES STREET BROOKSIDE ROAD CHARLES RIVER STREET GREAT PLAIN AVENUE Rte 135 W / GARDEN STREET  CENTRAL AVENUE / NEHOIDEN STREET WEBSTER STREET
3/1/2012 3/1/2012 9/28/2012 10/1/2012 10/13/2012 10/30/2012 10/30/2012 10/30/2012 10/30/2012 10/28/2012 10/26/2012 10/12/2012	10:46 PM 6:00 PM 5:38 PM 2:21 PM 7:40 AM 1:25 AM 9:12 PM 6:39 PM 5:04 PM 10:41 PM 10:09 PM	Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Non-fatal injury Not Reported Property damage only (none injured) Non-fatal injury Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Property damage only (none injured)	No injury  No injury  No injury  Non-fatal injury - Non-incapacitating  Not Applicable  No injury  Non-fatal injury - Possible  No injury	Angle Single vehicle crash Rear-end Angle Angle Single vehicle crash Single vehicle crash Single vehicle crash Rear-end Sideswipe, opposite direction Rear-end Single vehicle crash Angle	Collision with parked motor vehicle  Collision with unknown fixed object Collision with motor vehicle in traffic  Collision with utility pole Collision with motor vehicle in traffic Collision with tree Collision with utility pole  Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic	D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Inattention) D2:(No improper D1:(No improper driving) D1:(Unknown) D2:(No improper driving) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Physical impairment) D2:(No D1:() D2:() D1:(Driving too fast for conditions) D1:() D1:(No improper driving) D2:(Followed too closely) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings),(Inattention) D1:(Unknown) D2:(No improper driving) D1:(So improper driving) D1:(No improper driving) D1:(No improper driving) D1:(No improper driving) D1:(So improper driving) D1:(Failed to yield right of way) D2:()	Dry Snow Snow Dry Dry Dry Wet Dry Wet Dry Wet	Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway	Snow/Sleet, hail (freezing rain or drizzle) Cloudy/Snow Clear Clear Cloudy/Rain Clear Rain Cloudy/Rain Rain/Other Clear	GROSVENOR ROAD / BROAD MEADOW ROAD HIGHLAND AVENUE  CHESTNUT STREET HIGHLAND AVENUE / CHARLES STREET BROOKSIDE ROAD CHARLES RIVER STREET GREAT PLAIN AVENUE Rte 135 W / GARDEN STREET  CENTRAL AVENUE / NEHOIDEN STREET WEBSTER STREET KENDRICK STREET / HUNTING ROAD GREAT PLAIN AVENUE / CHAPEL STREET
3/1/2012 3/1/2012 9/28/2012 10/1/2012 10/13/2012 10/30/2012 10/30/2012 10/30/2012 10/30/2012 10/28/2012 10/26/2012	10:46 PM 6:00 PM 5:38 PM 2:21 PM 7:40 AM 1:25 AM 9:12 PM 6:39 PM 5:04 PM 10:41 PM 10:09 PM	Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Non-fatal injury Not Reported Property damage only (none injured) Non-fatal injury Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Not Reported Property damage only (none injured)	No injury  No injury  Non-fatal injury - Non-incapacitating  Not Applicable  No injury  Non-fatal injury - Possible  No injury  No injury  No injury  No injury  No injury	Angle Single vehicle crash Rear-end Angle Angle Single vehicle crash Single vehicle crash Single vehicle crash Rear-end Sideswipe, opposite direction Rear-end Single vehicle crash	Collision with parked motor vehicle  Collision with unknown fixed object Collision with motor vehicle in traffic  Collision with utility pole Collision with motor vehicle in traffic Collision with tree Collision with utility pole  Collision with motor vehicle in traffic  Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic	D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Inattention) D2:(No improper D1:(No improper driving) D1:(Unknown) D2:(No improper driving) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Physical impairment) D2:(No D1:() D2:() D1:(Driving too fast for conditions) D1:() D1:(No improper driving) D2:(Followed too closely) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings),(Inattention) D1:(Unknown) D2:(No improper driving) D2:(Disregarded traffic signs, D1:(Failed to yield right of way) D2:()	Dry Snow Snow Dry Dry Wet Dry Wet Wet Wet Wet Dry	Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway	Snow/Sleet, hail (freezing rain or drizzle) Cloudy/Snow  Clear Clear Cloudy/Rain Clear Rain Cloudy/Rain Rain/Other Clear	GROSVENOR ROAD / BROAD MEADOW ROAD HIGHLAND AVENUE  CHESTNUT STREET HIGHLAND AVENUE / CHARLES STREET BROOKSIDE ROAD CHARLES RIVER STREET GREAT PLAIN AVENUE REE 135 W / GARDEN STREET  CENTRAL AVENUE / NEHOIDEN STREET WEBSTER STREET KENDRICK STREET / HUNTING ROAD GREAT PLAIN AVENUE / CHAPEL STREET  CENTRAL AVENUE / CHAPEL STREET
3/1/2012 3/1/2012 9/28/2012 10/1/2012 10/13/2012 10/30/2012 10/30/2012 10/30/2012 10/28/2012 10/26/2012 10/12/2012 10/11/2012	10:46 PM 6:00 PM 5:38 PM 2:21 PM 7:40 AM 1:25 AM 9:12 PM 6:39 PM 5:04 PM 10:41 PM 10:09 PM 8:15 PM	Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Non-fatal injury Non-fatal injury Property damage only (none injured) Non-fatal injury Property damage only (none injured) Property damage only (none injured) Not Reported Property damage only (none injured) Not Reported Property damage only (none injured) Property damage only (none injured) Property damage only (none injured)	No injury  No injury  No injury  Non-fatal injury - Non-incapacitating  Not Applicable  No injury  Non-fatal injury - Possible  No injury  No injury  No injury  Not reported  No injury  No injury  No injury  No injury  No injury	Angle Single vehicle crash Rear-end Angle Angle Single vehicle crash Single vehicle crash Single vehicle crash Rear-end Sideswipe, opposite direction Rear-end Single vehicle crash Angle Head-on	Collision with parked motor vehicle  Collision with unknown fixed object  Collision with motor vehicle in traffic  Collision with motor vehicle in traffic  Collision with motor vehicle in traffic  Collision with utility pole  Collision with utility pole  Collision with motor vehicle in traffic	D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Inattention) D2:(No improper D1:(No improper driving) D1:(Unknown) D2:(No improper driving) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Physical impairment) D2:(No D1:() D2:() D1:(Driving too fast for conditions) D1:() D1:(No improper driving) D2:(Followed too closely) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings),(Inattention) D1:(Unknown) D2:(No improper driving) D1:(No improper driving) D1:(No improper driving) D1:(No improper driving) D1:(Sistegarded traffic signs, D1:(Failed to yield right of way) D2:(No improper driving) D1:(Failed to yield right of way) D2:(No improper driving)	Dry Snow Snow Dry Dry Wet Dry Wet Dry Wet Uet Uet Uet Uet Uet Uet Uet Uet Uet U	Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway	Snow/Sleet, hail (freezing rain or drizzle) Cloudy/Snow  Clear Clear Cloudy/Rain Clear Rain Cloudy/Rain Rain/Other Clear Clear Clear Clear Cloudy/Rain	GROSVENOR ROAD / BROAD MEADOW ROAD HIGHLAND AVENUE  CHESTNUT STREET HIGHLAND AVENUE / CHARLES STREET BROOKSIDE ROAD CHARLES RIVER STREET GREAT PLAIN AVENUE REE 135 W / GARDEN STREET  CENTRAL AVENUE / NEHOIDEN STREET WEBSTER STREET KENDRICK STREET / HUNTING ROAD GREAT PLAIN AVENUE / CHAPEL STREET  CENTRAL AVENUE / CHAPEL STREET  CENTRAL AVENUE / GREAT PLAIN AVENUE GREAT PLAIN AVENUE / WOODLAWN
3/1/2012 3/1/2012 9/28/2012 10/1/2012 10/13/2012 10/30/2012 10/30/2012 10/30/2012 10/28/2012 10/26/2012 10/11/2012 11/27/2012	10:46 PM 6:00 PM 5:38 PM 2:21 PM 7:40 AM 1:25 AM 9:12 PM 6:39 PM 5:04 PM 10:41 PM 10:09 PM 8:15 PM	Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Non-fatal injury Not Reported Property damage only (none injured) Non-fatal injury Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Property damage only (none injured)	No injury  No injury  Non-fatal injury - Non-incapacitating  Not Applicable  No injury  Non-fatal injury - Possible  No injury  No injury  No injury  No injury  Not reported  No injury   Angle Single vehicle crash Rear-end Angle Angle Single vehicle crash Single vehicle crash Single vehicle crash Rear-end Sideswipe, opposite direction Rear-end Single vehicle crash Angle Head-on Rear-end	Collision with parked motor vehicle  Collision with unknown fixed object Collision with motor vehicle in traffic  Collision with utility pole Collision with motor vehicle in traffic Collision with tree Collision with utility pole  Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic	D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Inattention) D2:(No improper D1:(No improper driving) D1:(No improper driving) D1:(Unknown) D2:(No improper driving) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Physical impairment) D2:(No D1:() D2:() D1:(Driving too fast for conditions) D1:(In improper driving) D2:(Followed too closely) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings),(Inattention) D1:(Unknown) D2:(No improper driving) D1:(Disregarded traffic signs, D1:(Failed to yield right of way) D2:(No improper driving) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Unknown) D2:(No improper driving)	Dry Snow Snow Dry Dry Dry Wet Dry Wet Uet Uet Uet Uet Uet Uet Uet Uet Uet U	Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway	Snow/Sleet, hail (freezing rain or drizzle) Cloudy/Snow  Clear Clear Cloudy/Rain Clear Rain Cloudy/Rain Rain/Other Clear Clear Clear Clear	GROSVENOR ROAD / BROAD MEADOW ROAD HIGHLAND AVENUE  CHESTNUT STREET HIGHLAND AVENUE / CHARLES STREET BROOKSIDE ROAD CHARLES RIVER STREET GREAT PLAIN AVENUE RTE 135 W / GARDEN STREET  CENTRAL AVENUE / NEHOIDEN STREET WEBSTER STREET KENDRICK STREET / HUNTING ROAD GREAT PLAIN AVENUE / CHAPEL STREET  CENTRAL AVENUE / GREAT PLAIN AVENUE GREAT PLAIN AVENUE / WOODLAWN AVENUE	
3/1/2012 3/1/2012 9/28/2012 10/1/2012 10/13/2012 10/30/2012 10/30/2012 10/30/2012 10/30/2012 10/28/2012 10/26/2012 10/12/2012 10/11/2012	10:46 PM 6:00 PM 5:38 PM 2:21 PM 7:40 AM 1:25 AM 9:12 PM 6:39 PM 5:04 PM 10:41 PM 10:09 PM 8:15 PM	Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Non-fatal injury Non-fatal injury Property damage only (none injured) Non-fatal injury Property damage only (none injured) Property damage only (none injured) Not Reported Property damage only (none injured) Not Reported Property damage only (none injured) Property damage only (none injured) Property damage only (none injured)	No injury  No injury  No injury  Non-fatal injury - Non-incapacitating  Not Applicable  No injury  Non-fatal injury - Possible  No injury  No injury  No injury  Not reported  No injury  No injury  No injury  No injury  No injury	Angle Single vehicle crash Rear-end Angle Angle Single vehicle crash Single vehicle crash Single vehicle crash Rear-end Sideswipe, opposite direction Rear-end Single vehicle crash Angle Head-on	Collision with parked motor vehicle  Collision with unknown fixed object  Collision with motor vehicle in traffic  Collision with motor vehicle in traffic  Collision with motor vehicle in traffic  Collision with utility pole  Collision with utility pole  Collision with motor vehicle in traffic	D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Inattention) D2:(No improper D1:(No improper driving) D1:(Unknown) D2:(No improper driving) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Physical impairment) D2:(No D1:() D2:() D1:(Driving too fast for conditions) D1:() D1:(No improper driving) D2:(Followed too closely) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings),(Inattention) D1:(Unknown) D2:(No improper driving) D1:(No improper driving) D1:(No improper driving) D1:(No improper driving) D1:(Sistegarded traffic signs, D1:(Failed to yield right of way) D2:(No improper driving) D1:(Failed to yield right of way) D2:(No improper driving)	Dry Snow Snow Dry Dry Wet Dry Wet Dry Wet Uet Uet Uet Uet Uet Uet Uet Uet Uet U	Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway	Snow/Sleet, hail (freezing rain or drizzle) Cloudy/Snow  Clear Clear Cloudy/Rain Clear Rain Cloudy/Rain Rain/Other Clear Clear Clear Clear Cloudy/Rain	GROSVENOR ROAD / BROAD MEADOW ROAD HIGHLAND AVENUE  CHESTNUT STREET HIGHLAND AVENUE / CHARLES STREET BROOKSIDE ROAD CHARLES RIVER STREET GREAT PLAIN AVENUE Rte 135 W / GARDEN STREET  CENTRAL AVENUE / NEHOIDEN STREET WEBSTER STREET KENDRICK STREET / HUNTING ROAD GREAT PLAIN AVENUE / CHAPEL STREET  CENTRAL AVENUE / GREAT PLAIN AVENUE GREAT PLAIN AVENUE / GREAT PLAIN AVENUE GREAT PLAIN AVENUE / WOODLAWN

Company   Comp	Crash Date	Crash Time Crash Severity	Maximum Injury Severity Reported	Manner of Collision	First Harmful Event	Driver Contributing Codes	Road Surface	Ambient Light	Weather Condition	Roadway
1-20     1	Clasii Date	Crash Time Crash Sevency	Waximum injury Severity Reported	Wallief of Collision	That Harming Event			Ambient Light	weather condition	Roadway
A Control of Control	12/9/2012	6:08 AM Unknown	Unknown	Single vehicle crash	Collision with curb	l l	Dry	Dark - lighted roadway	Clear	SECOND AVENUE
Section   Proceedings   Procedings   Proceedings   Procedings   Proceedings   Procee	12/5/2012	8:43 AM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic		Dry	Dark - lighted roadway	Clear/Clear	SECOND AVENUE
Column   C		5:48 PM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Failed to yield right of way) D2:(No improper driving)	Wet		Rain	
Control   Cont	2/3/2013	9:05 PM Property damage only (none injured)	No injury	Single vehicle crash	Collision with curb	D1:(Driving too fast for conditions)	Snow	Dark - lighted roadway	Snow/Snow	LEE ROAD
Control   Cont										
Column   C	2/5/2012	5 5 5 7 4 4 4 5 5 4 4 5 5	No. Carlos - Booth					8 1 11 1 1 1 1 1	-	CENTER AL AVE / CHARLES BUIER CT
Column										· · · · · · · · · · · · · · · · · · ·
Subject   Subj					·					•
\$2,000   \$1,000   \$	0/7/2013	11.00 FW Property damage only (none injured)	No injury	Single vehicle crash	Considir with motor vehicle in traine		Wet	Dark - lighted roadway	indiii/ indiii	CENTIAL AVENUE
Description   Proceedings   Procedings   Proceedings   Procedings   Proceedings   Pr	8/23/2013	1:00 AM Non-fatal injury	Non-fatal injury - Non-incapacitating	Rear-end	Collision with parked motor vehicle		Dry	Dark - lighted roadway	Clear/Clear	GROSVENOR ROAD
Activation of the process of the p		, ,	, , ,		·		<b>,</b>	,		
Accordance   Acc	8/6/2012	9:30 PM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	l l	Dry	Dark - lighted roadway	Clear	KENDRICK STREET
1										
ACCURATE   Control of the control			No injury	Angle	Collision with motor vehicle in traffic		Dry		Clear	GREAT PLAIN AVENUE / HIGHLAND AVENUE
Model	1/13/2013	6:18 PM Non-fatal injury	Non-fatal injury - Non-incapacitating	Single vehicle crash	Collision with tree	D1:(Failure to keep in proper lane or running off road)	Wet	Dark - lighted roadway	Cloudy	
Proc.   Proc	- 1.1									HIGHLAND AVENUE / RAMP-RT 95 NB TO
Proc.   Proc		* '					<u> </u>			
1975   O. C.							<del></del>			
1-100    1									-	·
1.000   1.00										GREAT PLAIN AVE / DEDHAM AVE
## 1970 Bit PM Procedures and Process of the Section S	-, -, 2020		, ,							-,
13 CH   13 C	3/21/2013	10:20 PM Property damage only (none injured)	No injury	Rear-end	Collision with parked motor vehicle		Wet	Dark - lighted roadway	Cloudy/Cloudy	HUNNEWELL STREET
Control   Cont					·				<i>''</i>	CENTRAL AV.
1909   1819   1909						D1:(Failed to yield right of way),(Operating vehicle in erratic	,			
April   Act   Market per a march   Act   Support of an art   Support of art   Support		• •		Angle						
Application   Application				- i	<del>-</del>					
1,000   1,00	2/3/2013	9:05 PM Property damage only (none injured)	No injury	Single vehicle crash	Collision with curb	D1:(Driving too fast for conditions)	Snow	Dark - lighted roadway	Snow/Snow	LEE RD
1,000   1,00	2/4/2012	AOE DM Droto-d	No injune	Angle	Collision with an atomic birth in 16	D1/Failed to yield right of your A D2/ft	Day	Dork Believed at	Clear/Clear	CREAT DI AINI AVENUE / AAACCUAU CTOCT
Mat   March							Cnow			GREAT PLAIN AVENUE / MARSHALL STREET
17777701   1777701   177770							Snow			
1997/07/07   1.0 to 10.0 more recommendation from the control of							<del>  '</del>			CENTRAL AV. / MARKED TREE RD.
Colifornia   1-13   17   International process of the contraction of the contract of the con										DEDHAM AVENUE / SOUTH STREET
\$2,000   \$							+			
27/2001   10/20 ftm   Property designed price during on price ground   10/20 ftm   Property designed ground   10/20 ftm   Property designed ground   10/20 ftm   Property designed ground   10/20 ftm   Property designed ground   10/20 ftm   Property designed ground   10/20 ftm   Property designed ground   10/20 ftm   Property designed ground   10/20 ftm   Property designed ground   10/20 ftm   Property designed ground ground   10/20 ftm   Property designed ground g							Dry			GREAT PLAIN AVE / NORTH HILL AVE.
1.75/2022   1.75 M Troperty danger deliberal present   1.50 May   1.75 M Troperty danger deliberal present   1.50 May   1.75 M Troperty danger deliberal present   1.75 M Troperty danger deliberal	7/1/2013	10:06 PM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic		Dry		Cloudy/Cloudy	CHESTNUT ST
17/2/2011   167 FM Progress designed sequent of the graph   Sequent   Sequ	7/26/2013	9:21 PM Not Reported	Not reported	Sideswipe, same direction	Collision with motor vehicle in traffic	D1:() D2:()	Dry	Dark - lighted roadway	Cloudy	HUNNEWELL ST
\$\frac{1}{4}\frac{1}{2}\frac{1}						D1:(No improper driving) D2:(Made an improper				
677779735   11.97 PM Program damper party part					Collision with motor vehicle in traffic		Dry			GREAT PLAIN AVENUE / DOUGLAS ROAD
81/2502 56 PP Prosperty derings only lother reported. 91/2502 56 PP Prosperty derings only lother reported. 91/2502 56 PP Prosperty derings only lother reported. 91/2502 56 PP Prosperty derings only lother reported. 91/2503 56 PP Prosperty derings only lother repo							+ ·			
\$2,77,003   \$0.00 MeV (regent years) and process recognition   \$0.00 MeV (regent declared)   \$	8/17/2013	11:39 PM Property damage only (none injured)	No injury	Single vehicle crash	Collision with motor vehicle in traffic		+ '	Dark - lighted roadway	Clear/Clear	
\$11,77911   \$12,7670	0/17/2012	0.00 000 000 00000000000000000000000000	NI = turbum.	A1 -	Calliain with materials in toffic		D	Dark Baktad anadaan	Class/Class	CHESTNUT ST / GREAT PLAIN AVE. / CHAPEL
\$25,000   11.00 AP Preserve American Collision with patter   Collision with more vehicle in raffic   10.00 American (Collision with more veh							Dry		- '	GREENDALE AVENUE
\$1,019/2023   \$4.7 PM Proporty danage only (conce injured)							+ ·			
## ASPEN Progenty damage early tincer injured   No Internal Progenty damage early tincer injured   No Intern		. , , , , ,				,	<u> </u>			
10(4/2013   3.40 PW   Procently damage only from legislated   No Highary   Angle   Collision with median refinited market   D.1 (Entitlet to yout gift of your JD (No Improper critical)   No France   Collision with median refinited market   D.1 (Entitlet to yout gift of your JD (No Improper critical)   No France   Collision with median refinited in 11 offs.   D.1 (Entitlet to yout gift of your JD (No Improper critical)   No France   Collision with median refinited in 11 offs.   D.1 (Entitlet to your JD (No Improper critical)   No France   Collision with median refinited in 11 offs.   D.1 (Entitlet to your JD (No Improper critical)   No France   Collision with median refinited in 11 offs.   D.1 (Entitlet to your JD (No Improper critical)   No France   Collision with median refinited in 11 offs.   D.1 (Entitlet to your JD (No Improper critical)   No France   Collision with median refinited in 11 offs.   D.1 (Entitlet to your JD (No Improper critical)   No France   Collision with median refinited in 11 offs.   D.1 (Entitlet to your JD (No Improper critical)   No France   Collision with median refinited in 11 offs.   D.1 (Entitlet to your JD (No Improper critical)   No France   Collision with median refinited in 11 offs.   D.1 (Entitlet to your JD (No Improper critical)   No France   Collision with median refinited in 11 offs.   D.1 (Entitlet to your JD (No Improper critical)   No France   Collision with median refinited in 11 offs.   D.1 (Entitlet to your JD (No Improper critical)   No France   Collision with median refinited in 11 offs.   D.1 (Entitlet to your JD (No Improper critical)   No France   Collision with median refinited in 11 offs.   D.1 (Entitlet to your JD (No Improper critical)   No France   Collision with median refinited in 11 offs.   D.1 (Entitlet to your JD (No Improper critical)   No France   Collision with median refinited in 11 offs.   D.1 (Entitlet to your JD (No Improper critical)   No France   Collision with median refinited in 11 offs.   D.1 (Entitlet to your JD (No Improper critical)	20/20/2020	the state of the s	,,					- Ingreed value (		MARKED TREE RD. / GREATPLAIN AVE Rte
101/4/2013   1.0.1 PM Property damage only (none injured)   No Injury   Angle (Collision with motor vericle in 191ff.   D.S. (Falled to yeld right of war (D.S.) (Injury (D.S.)   D.S.)   D.S. (Egypter randowly)   C.Set (Falled To yeld)   C.Set (	8/19/2013	4:36 PM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Visibility obstructed) D2:(Visibility obstructed)	Dry	Dark - lighted roadway	Clear/Clear	•
11/27/203 1135 FM Property damage only (none injuned) No injuny Sidesynips, same direction Collision with motor vehicle in traffic 01.1No improper driving D21/00 improper dri	10/4/2013	11:01 PM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Failed to yield right of way) D2:(No improper driving)	Dry	Dark - lighted roadway	Clear/Clear	WEBSTER ST / DEDHAM AVE.
11/37/2013 4-11 FM Property familiary only (none injured) 11/37/2013 4-11 FM Property familiary only (none injured) 10/35/2013 4-11 FM Property familiary only (none injured) 10/35/2013 7-11 FM Property damage only (none injured) 10/35/2013 7-11 FM Property damage only (none injured) 10/35/2013 7-11 FM Property damage only (none injured) 10/35/2013 8-12 FM Non-fatal injury 10/35/2013 8-12	9/13/2013	3:40 PM Property damage only (none injured)	No injury	Angle	Collision with parked motor vehicle	D1:(Inattention) D2:()	Dry	Dark - lighted roadway	Clear/Clear	
11/2/2013   A.11 PM Property damage only Income injured   No injury   Seawing, same direction   Collision with motor vehicle in traffic   D.1/Ro improper driving)   D.7/Ro improper										YANKEE DIVISION HIGHWAY Rte SR128 S /
1075/2013 P.3.13 PM Property darage only (none injured) No injury Rear-end Collision with motor vehicle in traffic 10.15/followed too Cooely) D2/(No improper driving) Dry Dark - lighted roadway Clear/Clear OEDHAM ANY DVF 11/15/2013 P.3.14 PM Property darage only (none injured) Non-fatal injury - Possible Rear-end Collision with motor vehicle in traffic 10.15/failed to yeld right of way D2/(No improper driving) Wet Dark - lighted roadway Rear-Pollow Pollow Poll										RAMP-RT 9 EB TO RT 95 SB
10/25/2033   5.54 RM   Non-fatal rigury   Possible   Head on Collision with motor vehicle in traffic   D.15/Failed to yelding five year.   Possible   Lead on Collision with motor vehicle in traffic   D.15/Failed to yelding five year.   Possible   Lead on Collision with motor vehicle in traffic   D.15/Failed to yelding five year.   Possible   Lead on Collision with motor vehicle in traffic   D.15/Failed to yelding five year.   Possible   Lead on Collision with motor vehicle in traffic   D.15/Failed to yelding five year.   Possible   Lead on Collision with motor vehicle in traffic   D.15/Failed to yelding five year.   Possible   D.15/Failed to yelding five year.   D.15/Failed to yeld fing five year.   D.15/Failed to yeld	11/2/2013	4:11 PM Property damage only (none injured)	No injury	Sideswipe, same direction	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(No improper driving)	Dry	Dark - lighted roadway	Clear/Cloudy	
12/15/2013   5.54 PM Non-fatal injury — Possible   Head on   Collision with motor whelic in traffic   D1.[Failed to yelid right of way) 0.27 (No improper driving)   Ve   Dark- lighted roadway   Clear/Clear   DEPNINA RAY   SOUTH \$5.57	10/25/2012	7:12 DM Proporty damage only (new interest)	No injury	Rear and	Collision with motor wobist- :- tff:-	D1:(Followed too closely) D2:/No in	Do	Dark lighted ser door	Clear/Clear	GREAT PLAIN AVE
10/30/2013   8.09 AM Non-fatal injury - Non-incapacitating   Angle   Collision with motor vehicle in traffic   D1/falled to yield right of way   D2/(No improper driving)   Wet   Dark - lighted roadway   Rain/Cloudy   HUNTING RD / ENDRICKS   HUN							Ice			<u> </u>
12/4/2013 8.30 PM Non-fatal injury Non-f						, , , , , , , , , , , ,				· · · · · · · · · · · · · · · · · · ·
12/4/2013 8.93 PM Non-fatal injury Non-f	10/30/2013	5.55 / III Justin India injury			Company and thoor vehicle in traine	= 1/1 and to your right of way, be five improper univing)	1.00	Sun Agricu (Sauway	, 5.5544	HIGHLAND AVENUE / RAMP-RT 95 SB TO
12/9/2013 6:00 PM Property damage only (none injured) No injury Rear-end Collision with motor vehicle in traffic D1:(16) indept opticity flow you) 22:(No improper driving) Dry Oark - lighted roadway C cloudy 1.04PELS TIZET / AVERY SQU 1.1/11/2013 5:30 PM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic D1:(Failed to yield right of way) D2:(No improper driving) Dry Oark - lighted roadway C clear/Cloudy HARRIS AVENUE 1.1/11/2013 10:33 PM Property damage only (none injured) No injury Angle Collision with unity pole D1:(Failed to yield right of way) D2:(No improper driving) Dry Oark - lighted roadway C clear/Cloard C clear/Clear SOUTH ST Collision with unity pole D1:(Failed to yield right of way) D2:(No improper driving) Dry Oark - lighted roadway C clear/Clear SOUTH ST Clear C clear Clear C clear Clear C clear	12/4/2013	8:30 PM Non-fatal injury	Non-fatal injury - Possible	Rear-end	Collision with motor vehicle in traffic	D1:(Followed too closely) D2:(No improper driving)	Dry	Dark - lighted roadway	Clear/Clear	-
12/14/2013 8:14 MP (Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic D1/failed to yield right of way) D2:(No improper driving) Dry Dark - lighted roadway Clear (Cloudy HARNES AVENUE D1/failed to yield right of way) D2:(No improper driving) Dry Dark - lighted roadway Clear (Cloudy HARNES AVENUE D1/failed to yield right of way) D2:(No improper driving) Dry Dark - lighted roadway Clear (Cloudy HARNES AVENUE D1/failed to yield right of way) D2:(No improper driving) Dry Dark - lighted roadway Clear (Cloudy HARNES AVENUE D1/failed to yield right of way) D2:(No improper driving) Dry Dark - lighted roadway Clear (Cloudy HARNES AVENUE D1/failed to yield right of way) D2:(No improper driving) Dry Dark - lighted roadway Clear (Cloudy HARNES AVENUE D1/failed to yield right of way) D2:(No improper driving) Dry Dark - lighted roadway Clear (Cloudy HARNES AVENUE D1/failed to yield right of way) D2:(No improper driving) Dry Dark - lighted roadway Clear (Cloudy HARNES AVENUE D1/failed to yield right of way) D2:(No improper driving) Dry Dark - lighted roadway Clear (Cloudy HARNES AVENUE D1/failed to yield right of way) D2:(No improper driving) Dry Dark - lighted roadway Clear (Cloudy HARNES AVENUE D1/failed roadway D2:(No improper driving) Dry Dark - lighted roadway Dark - lighted roadway D2:(No improper driving) Dry Dark - lighted roadway Dark - lighted roadway D2:(No improper driving) Dry Dark - lighted roadway D2:(No impro									-	
12/11/2013 5.30 PM Property damage only (none injured) No injury Single vehicle crash Collision with motor vehicle in traffic D1:(Failed to yield right of way) D2:(No improper driving) Property damage only (none injured) No injury Single vehicle crash Collision with parked motor vehicle D1:(Inattention),(Distracted) D2:(No improper driving) Property damage only (none injured) No injury Single vehicle crash Collision with motor vehicle D1:(Inattention),(Distracted) D2:(No improper driving) Property damage only (none injured) No injury Single vehicle crash Collision with motor vehicle in traffic D1:(Failed to yield right of way) D2:(No improper driving) Slush Dark - lighted roadway Sleet, hall (freezing rain or drizzle)/Snow CHARLES RIVER ST D1:(Swerying or avoiding due to wind, slippery surface, 12/14/2013 8:22 PM Property damage only (none injured) No injury Head-on Collision with tree vehicle, object, non-motorist in roadway, et) Snow Dark - lighted roadway Sleet, hall (freezing rain or drizzle)/Snew Property damage only (none injured) No injury Head-on Collision with tree vehicle, object, non-motorist in roadway, et) Snow Dark - lighted roadway Sleet, hall (freezing rain or drizzle)/Snew Property damage only (none injured) No injury Sideswipe, same direction Collision with motor vehicle in traffic D1:(No improper driving) D2:(No improper driving)					Collision with motor vehicle in traffic	0, 1				110 WEST ST / AVERY SQUARE
10/28/2013 9:00 AM Property damage only (none injured) No injury Angle Collision with praked motor vehicle D1:(No improper driving) Ice Dark - lighted roadway Sleet, hall (freezing rain or drizzle)/Snow CHARLES RIVER ST D1:(Sow with tree D1:(No improper driving) Slush Dark - lighted roadway Sleet, hall (freezing rain or drizzle)/Snow CHARLES RIVER ST D1:(Swerving or avoiding due to wind, slippery surface, whicle, object, non-motorist in roadway, etc) Snow Dark - lighted roadway Clear HIGH ROAD AVE D1:(Swerving or avoiding due to wind, slippery surface, whicle, object, non-motorist in roadway, etc) Snow Dark - lighted roadway Clear HIGH ROAD AVE D1:(No improper driving) Sleet, hall (freezing rain or drizzle)/Sleet, hall (freezing rain or drizzle)/Sle	12/11/2013		No injury		Collision with motor vehicle in traffic		Wet	Dark - lighted roadway		HARRIS AVENUE
12/15/2013 8:19 AM Property damage only (none injured) No injury Single vehicle crash Collision with tree D1:(No improper driving) lce Dark - lighted roadway Sleet, hail (freezing rain or drizzle)/Snow CHARLES RIVER ST L2/16/2013 10:35 PM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic D1:(Swerving or avoiding due to wind, slippery surface, vehicle, object, non-motorist in roadway, etc) Snow Dark - lighted roadway hail (freezing rain or drizzle)/Sleet, well (freezing rain or drizzle)/Sleet, hail (freezing rain or drizzle)/Sleet, hail (freezing rain or drizzle)/Sleet, well (freezing rain or drizzle)/Sleet, hail (freezing rain or d							<u> </u>			
12/16/2013 10:35 PM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic  12/14/2013 8:22 PM Property damage only (none injured) No injury Head-on  12/14/2013 7:15 PM Property damage only (none injured) No injury Sideswipe, same direction  12/24/2013 7:15 PM Property damage only (none injured) No injury Sideswipe, same direction  12/24/2013 7:15 PM Property damage only (none injured) No injury Sideswipe, same direction  12/24/2013 7:15 PM Property damage only (none injured) No injury Sideswipe, same direction  12/24/2013 7:15 PM Property damage only (none injured) No injury Sideswipe, same direction  12/24/2013 7:15 PM Property damage only (none injured) No injury Sideswipe, opposite direction  12/24/2013 7:15 PM Property damage only (none injured) No injury Sideswipe, opposite direction  12/24/2014 9:00 PM Property damage only (none injured) No injury Angle  12/24/2014 9:00 PM Property damage only (none injured) No injury Angle  12/24/2014 0:00 PM Property damage only (none injured) No injury Angle  12/24/2014 0:00 PM Property damage only (none injured) No injury Angle  12/26/2014 0:00 PM Property damage only (none injured) No injury Angle  12/26/2014 0:00 PM Property damage only (none injured) No injury Angle  12/26/2014 0:00 PM Property damage only (none injured) No injury Angle  12/26/2014 0:00 PM Property damage only (none injured) No injury Angle  12/26/2014 0:00 PM Property damage only (none injured) No injury Angle  12/26/2014 0:00 PM Property damage only (none injured) No injury Angle  12/26/2014 0:00 PM Property damage only (none injured) No injury Angle  12/26/2014 0:00 PM Property damage only (none injured) No injury Angle  12/26/2014 0:00 PM Property damage only (none injured) No injury Angle  12/26/2014 0:00 PM Property damage only (none injured) No injury Angle  12/26/2014 0:00 PM Property damage only (none injured) No injury Angle  12/26/2014 0:00 PM Property damage only (none injured) No injury Angle  12/26/2014 0:00 PM Property damage only (none injured)	10/28/2013	9:00 AM Property damage only (none injured)	No injury	Angle	Collision with parked motor vehicle	D1:(Inattention),(Distracted) D2:(No improper driving)	Dry	Dark - lighted roadway	Clear/Clear	CHESTNUT STREET (LOT)
12/16/2013 10:35 PM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic  12/14/2013 8:22 PM Property damage only (none injured) No injury Head-on  12/14/2013 7:15 PM Property damage only (none injured) No injury Sideswipe, same direction  12/24/2013 7:15 PM Property damage only (none injured) No injury Sideswipe, same direction  12/24/2013 7:15 PM Property damage only (none injured) No injury Sideswipe, same direction  12/24/2013 7:15 PM Property damage only (none injured) No injury Sideswipe, same direction  12/24/2013 7:15 PM Property damage only (none injured) No injury Sideswipe, same direction  12/24/2013 7:15 PM Property damage only (none injured) No injury Sideswipe, opposite direction  12/24/2013 7:15 PM Property damage only (none injured) No injury Sideswipe, opposite direction  12/24/2014 9:00 PM Property damage only (none injured) No injury Angle  12/24/2014 9:00 PM Property damage only (none injured) No injury Angle  12/24/2014 0:00 PM Property damage only (none injured) No injury Angle  12/24/2014 0:00 PM Property damage only (none injured) No injury Angle  12/26/2014 0:00 PM Property damage only (none injured) No injury Angle  12/26/2014 0:00 PM Property damage only (none injured) No injury Angle  12/26/2014 0:00 PM Property damage only (none injured) No injury Angle  12/26/2014 0:00 PM Property damage only (none injured) No injury Angle  12/26/2014 0:00 PM Property damage only (none injured) No injury Angle  12/26/2014 0:00 PM Property damage only (none injured) No injury Angle  12/26/2014 0:00 PM Property damage only (none injured) No injury Angle  12/26/2014 0:00 PM Property damage only (none injured) No injury Angle  12/26/2014 0:00 PM Property damage only (none injured) No injury Angle  12/26/2014 0:00 PM Property damage only (none injured) No injury Angle  12/26/2014 0:00 PM Property damage only (none injured) No injury Angle  12/26/2014 0:00 PM Property damage only (none injured) No injury Angle  12/26/2014 0:00 PM Property damage only (none injured)	42/45/2212	0:10 444 0	No. today	Cirolo vehicl	Callisian with	D4.(No improved in the		Deale Pills I		CHARLES DIVED ST
D1:(Swerving or avoiding due to wind, slippery surface, vehicle, object, non-motorist in roadway, etc)  D1:(Swerving or avoiding due to wind, slippery surface, vehicle, object, non-motorist in roadway, etc)  Snow  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Clear/Clear  HIGH ROCK STREET / BROOK  D1:(No improper driving)  D1:(No improper driving)  D1:(No improper driving)  D2:(No							Cluck			
12/14/2013 8:22 PM Property damage only (none injured) No injury Head-on Collision with tree vehicle, object, non-motorist in roadway, etc) Snow Dark - lighted roadway hail (freezing rain or drizzle) WEBSTER STREET / BROOK 12/24/2013 7:15 PM Property damage only (none injured) No injury Sideswipe, same direction Collision with motor vehicle in traffic D1:(No improper driving) D2:(No improper driving) D7:(No improper d	12/16/2013	10:35 PIVI Property damage only (none injured)	ino injury	Angle	Collision with motor venicle in traffic	בעב.(railed to yield right of way) DZ:(No improper driving)	SIUSTI	Dark - lighted roadway	Clear	INIUNLANU AVE
12/14/2013 8:22 PM Property damage only (none injured) No injury Head-on Collision with tree vehicle, object, non-motorist in roadway, etc) Snow Dark - lighted roadway hail (freezing rain or drizzle) WEBSTER STREET / BROOK 12/24/2013 7:15 PM Property damage only (none injured) No injury Sideswipe, same direction Collision with motor vehicle in traffic D1:(No improper driving) D2:(No improper driving) D7:(No improper d						D1:(Swerving or avoiding due to wind, slippery surface			Sleet, hail (freezing rain or drizzle)/Sleet	
12/24/2013 7:15 PM Property damage only (none injured) No injury Sideswipe, same direction Collision with motor vehicle in traffic D1:(No improper driving) D2:(No improper driving) D7 Dark - lighted roadway Clear/Clear HIGH ROCK STREET   1/18/2014 6:36 PM Property damage only (none injured) No injury Sideswipe, opposite direction Collision with parked motor vehicle D1:(Driving too fast for conditions) D2:(No improper driving) Snow Dark - lighted roadway Snow RICHARD ROAD   1/19/2014 9:00 PM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic D1:(No improper driving) D2:(No improper driving) D7 Dark - lighted roadway Snow RICHARD ROAD   1/19/2014 7:07 PM Non-fatal injury N	12/14/2013	8:22 PM Property damage only (none injured)	No injury	Head-on	Collision with tree		Snow	Dark - lighted roadway		WEBSTER STREET / BROOKLINE STREET
1/18/2014 6:36 PM Property damage only (none injured) No injury Sideswipe, opposite direction Collision with parked motor vehicle D1:(Driving too fast for conditions) D2:(No improper driving) Snow Dark - lighted roadway Snow RICHARD ROAD  CHAPEL STREET / GREAT PI  1/19/2014 9:00 PM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic D1:(No improper driving) D2:(No improper driving) D7 Dark - lighted roadway Clear Snow Dark - lighted roadway Snow RICHARD ROAD  CHAPEL STREET / GREAT PI  1/2/3/2014 7:07 PM Non-fatal injury Non-fatal injury Possible Single vehicle crash Collision with utility pole D1:(No improper driving) D2:(No improper driving) D3:(No										
1/19/2014 9:00 PM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic D1:(No improper driving) D2:(No improper driving) D7 Dry Dark - lighted roadway Clear 135  2/3/2014 7:07 PM Non-fatal injury Non-fatal injury Possible Single vehicle crash Collision with utility pole D1:(No improper driving) Snow Dark - lighted roadway Snow ROLLING LN  2/20/2014 6:47 PM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic D1:(Disregarded traffic signs, signals, road markings) D2:(No improper driving) D2:(No improper driving) D2:(No improper driving) D3:(No improper driving) D										<u> </u>
1/19/2014 9:00 PM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic D1:(No improper driving) D2:(No improper driving) D7 Dark - lighted roadway Clear 135  2/3/2014 7:07 PM Non-fatal injury Non-fatal injury Possible Single vehicle crash Collision with utility pole D1:(No improper driving) Snow Dark - lighted roadway Snow ROLLING LN  2/20/2014 6:47 PM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic D1:(Disregarded traffic signs, signals, road markings) D2:(No improper driving) D2:(N	, , ,	. , ,				, , , , , , , , , , , , , , , , , , , ,		<u> </u>		CHAPEL STREET / GREAT PLAIN AVENUE Rte
2/3/2014 7:07 PM Non-fatal injury Non-fatal injury Non-fatal injury - Possible Single vehicle crash Collision with utility pole D1:(No improper driving) Snow Dark - lighted roadway Snow ROLLING LN 2/20/2014 6:47 PM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic D1:(Disregarded traffic signs, signals, road markings) D2:(No improper driving) Wet Dark - lighted roadway Cloudy/Cloudy CHESTNUT STREET / HIGH Property damage only (none injured) No injury Rear-end Collision with motor vehicle in traffic D1:(Inattention) D2:(No improper driving) Dy Dark - lighted roadway Clear/Clear WEBSTER ST	1/19/2014	9:00 PM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(No improper driving)	Dry	Dark - lighted roadway	Clear	· ·
2/8/2014 10:30 PM Property damage only (none injured) No injury Rear-end Collision with motor vehicle in traffic D1:(Inattention) D2:(No improper driving) Dry Dark - lighted roadway Clear/Clear WEBSTER ST		7:07 PM Non-fatal injury	Non-fatal injury - Possible	Single vehicle crash	Collision with utility pole		Snow	Dark - lighted roadway		ROLLING LN
										CHESTNUT STREET / HIGH ROCK STREET
2/7/2014 10:17 PM Property damage only (none injured) No injury Single vehicle crash   Collision with motor vehicle in traffic   D1:(Made an improper turn)   Drv   Dark - lighted roadway   Clear / Clear   GREAT PLAIN AVENUE / CH		10:30 PM Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	D1:(Inattention) D2:(No improper driving)	Dry	Dark - lighted roadway	Clear/Clear	WEBSTER ST
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0 101	0 10 3	and the contract of		et au tie a		2 10 (		West of the	
Crash Date 6/6/2014	Crash Time Crash Severity  10:23 PM Non-fatal injury	Maximum Injury Severity Reported  Non-fatal injury - Possible	Manner of Collision Angle	First Harmful Event Collision with motor vehicle in traffic	Driver Contributing Codes D1:(No improper driving) D2:(Disregarded traffic signs,	Road Surface Dry	Ambient Light  Dark - lighted roadway	Weather Condition Clear/Clear	Roadway GREAT PLAIN AVENUE / CHAPEL STREET
0/0/2014	10.23 FIVI NOTIFIATAL HIJULY	Non-latal injury - Fossible	Angle	Consider with motor vehicle in traint	D1:(No improper driving) D2:(Disregarded traffic signs, D1:(Disregarded traffic signs, signals, road markings)	Ыу	Dark - lighted roadway	Clear/Clear	GREAT FLAIN AVENUE / CHAFEE STREET
6/12/2013	8:38 PM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D2:(Unknown)	Dry	Dark - lighted roadway	Clear	PEACEDALE ROAD / GREAT PLAIN AVENUE
11/13/2013	5:20 PM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Unknown) D2:(Unknown)	Dry	Dark - lighted roadway	Clear/Clear	HIGHLAND AVE
						,	,		
12/24/2013	6:02 PM Property damage only (none injured)	No injury	Sideswipe, opposite direction	Collision with motor vehicle in traffic	D1:(Failed to yield right of way) D2:(No improper driving)	Dry	Dark - lighted roadway	Clear/Clear	MARKED TREE ROAD / HIGH ROCK STREET
12/27/2013	11:53 PM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Failed to yield right of way) D2:(No improper driving)	Dry	Dark - lighted roadway	Clear	DEDHAM AVE Rte 135 E / SOUTH STREET
1/4/2014	12:00 AM Property damage only (none injured)	No injury	Angle	Collision with parked motor vehicle	D1:(Other improper action),(Distracted) D2:(No improper	Snow	Dark - lighted roadway	Clear	GREAT PLAIN AVE
1/14/2014	5:02 PM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Visibility obstructed)	Wet	Dark - lighted roadway	Rain/Sleet, hail (freezing rain or drizzle)	KENDRICK ST. / 4TH AVE
1/21/2014	5:29 PM Non-fatal injury	Non-fatal injury - Possible	Angle	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(No improper driving)	Snow	Dark - lighted roadway	Snow/Blowing sand, snow	ALFRETON ROAD / MARK LEE ROAD
1/28/2014	5:41 PM Non-fatal injury	Non-fatal injury - Possible	Rear-end	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(No improper driving) D3:(No	Dry	Dark - lighted roadway	Clear/Clear	HIGHLAND AVE.
12/1/2013	8:59 AM Property damage only (none injured)	No injury	Single vehicle crash	Collision with other movable object	D1:(No improper driving)	Ice	Dark - lighted roadway	Rain/Cloudy	FOREST ST
12/28/2013	5:26 PM Property damage only (none injured)	No injury	Head-on	Collision with animal - deer	D1:(No improper driving)	Wet	Dark - lighted roadway	Clear/Clear	KENDRICK ST / 4TH AVE
12/28/2013	6:19 PM Non-fatal injury	Non-fatal injury - Incapacitating	Unknown	Collision with pedestrian	D1:()	Dny	Dark - lighted roadway	Clear/Clear	HIGHLAND AVENUE / ROSEMARY STREET
1/16/2014	5:43 PM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Failed to yield right of way) D2:(No improper driving)	Dry	Dark - lighted roadway	Cloudy	CENTRAL AVE / HUNNEWELL ST
1/10/2014	4:53 PM Property damage only (none injured)	No injury	Sideswipe, same direction	Collision with motor vehicle in traffic	D1:(No improper driving) D2:()	Wet	Dark - lighted roadway	Cloudy/Cloudy	FIRST AVENUE / HIGHLAND AVENUE
2/26/2014	9:12 PM Non-fatal injury	Non-fatal injury - Incapacitating	Single vehicle crash	Collision with tree	D1:(Failure to keep in proper lane or running off road)	Dry	Dark - lighted roadway	Clear	GREENDALE AV
2,20,202					D1:(No improper driving) D2:(Disregarded traffic signs,	,	- ingreeous y		NEHOIDEN ST / PARISH RD /
2/8/2014	6:56 PM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	signals, road markings)	Dry	Dark - lighted roadway	Clear/Clear	MEADOWBROOK RD.
10/18/2013	9:45 PM Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	D1:(Followed too closely) D2:(No improper driving)	Dry	Dark - lighted roadway	Clear/Clear	DEDHAM AVENUE
5/9/2014	9:17 PM Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(No improper driving)	Dry	Dark - lighted roadway	Cloudy	HIGHLAND AV
5/5/2014	9:05 PM Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic		Dry	Dark - lighted roadway	Clear	CHESTNUT STREET / SCHOOL STREET
5/20/2014	9:42 PM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Unknown) D3:(No improper	Dry	Dark - lighted roadway	Clear/Clear	SOUTH ST / DEDHAM AVE.
5/31/2014	4:08 AM Property damage only (none injured)	No injury	Single vehicle crash	Collision with motor vehicle in traffic	D1:(Failure to keep in proper lane or running off road)	Dry	Dark - lighted roadway	Cloudy/Cloudy	2ND AVE / A STREET
7/1/2014	9:11 PM Non-fatal injury	Non-fatal injury - Possible	Single vehicle crash	Collision with pedalcycle (bicycle, tricycle,	D1:(Failed to yield right of way)	Dry	Dark - lighted roadway	Clear/Clear	GRANT ST / SCHOOL ST
7/4/2014	12:26 AM Property damage only (none injured)	No injury	Single vehicle crash	Collision with curb	D1:(Physical impairment)	Wet	Dark - lighted roadway	Rain	CHESTNUT ST / SCHOOL ST
7/12/2014	9:53 PM Property damage only (none injured)	No injury	Rear-to-rear	Collision with parked motor vehicle	D1:(Other improper action) D2:(No improper driving)	Dry	Dark - lighted roadway	Clear/Clear	CHESTNUT ST
7/17/2014	10:01 PM Property damage only (none injured)	No injury	Single vehicle crash	Collision with utility pole	D1:(Other improper action)	Dry	Dark - lighted roadway	Clear	MAPLE ST
8/5/2014	10:00 AM Property damage only (none injured)	No injury	Rear-end	Collision with parked motor vehicle	D1:(No improper driving) D2:(Inattention)	Dry	Dark - lighted roadway	Clear/Clear	CHESTNUT ST
8/15/2014	8:04 PM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Unknown) D2:(Unknown)	Dry	Dark - lighted roadway	Clear	WEBSTER ST / WEST ST
9/18/2014	8:50 PM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Failed to yield right of way) D2:(No improper driving)	Dry	Dark - lighted roadway	Clear/Clear	WEBSTER ST / DEDHAM AVE
9/30/2014	7:10 PM Non-fatal injury	Non-fatal injury - Non-incapacitating	Head-on	Collision with motor vehicle in traffic	D1:(Failure to keep in proper lane or running off road)	Wet	Dark - lighted roadway	Cloudy/Cloudy	SOUTH ST
10/4/2014 10/14/2014	2:10 AM Property damage only (none injured) 6:35 PM Property damage only (none injured)	No injury No injury	Single vehicle crash	Collision with motor vehicle in traffic  Collision with motor vehicle in traffic	D1:(Failure to keep in proper lane or running off road)  D1:(Failed to yield right of way) D2:(No improper driving)	Wet Dry	Dark - lighted roadway  Dark - lighted roadway	Rain/Rain Clear/Clear	CENTRAL AVENUE HILLSIDE AVE / WEST STREET
10/14/2014			Angle			Wet		· · · · · · · · · · · · · · · · · ·	SCHOOL STREET / WARREN STREET
9/4/2014	7:41 PM Property damage only (none injured) 10:17 AM Property damage only (none injured)	No injury No injury	Angle Rear-end	Collision with motor vehicle in traffic  Collision with motor vehicle in traffic	D1:(Unknown) D2:(Unknown) D1:(Inattention) D2:(No improper driving)	Dry	Dark - lighted roadway	Rain/Severe crosswinds Clear	CENTRAL AVENUE / CARLETON DRIVE
9/16/2014	6:57 PM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Failed to yield right of way) D2:(No improper driving)	Dry	Dark - lighted roadway  Dark - lighted roadway	Clear/Clear	CHESTNUT ST. / HIGH ROCK ST.
10/4/2014	3:03 AM Property damage only (none injured)	No injury	Single vehicle crash	Collision with motor vehicle in traffic	D1:(Unknown)	Wet	Dark - lighted roadway	Cloudy/Rain	SOUTH STREET / RIVERBEND LANE
	5.05 Airiff roperty dumage only (none injured)								
8/6/2014	4:04 AM Property damage only (none injured)				,				
8/6/2014 11/2/2014	4:04 AM Property damage only (none injured) 1:58 AM Non-fatal injury	No injury	Sideswipe, opposite direction	Unknown	D1:(No improper driving)	Dry	Dark - lighted roadway	Clear	HIGHLAND TERRACE
8/6/2014 11/2/2014 10/7/2014	4:04 AM Property damage only (none injured) 1:58 AM Non-fatal injury 7:25 PM Property damage only (none injured)		Sideswipe, opposite direction Single vehicle crash		D1:(No improper driving) D1:(Failure to keep in proper lane or running off road)	Dry Wet	Dark - lighted roadway Dark - lighted roadway		
11/2/2014	1:58 AM Non-fatal injury	No injury Non-fatal injury - Non-incapacitating	Sideswipe, opposite direction	Unknown Collision with utility pole	D1:(No improper driving)	Dry Wet	Dark - lighted roadway	Clear Rain/Cloudy	HIGHLAND TERRACE FOREST ST / ROLLING LANE
11/2/2014 10/7/2014	1:58 AM Non-fatal injury 7:25 PM Property damage only (none injured)	No injury Non-fatal injury - Non-incapacitating No injury	Sideswipe, opposite direction Single vehicle crash Angle	Unknown Collision with utility pole Collision with motor vehicle in traffic	D1:(No improper driving) D1:(Failure to keep in proper lane or running off road) D1:(Disregarded traffic signs, signals, road markings) D2:(No	Dry Wet Dry	Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway	Clear Rain/Cloudy Clear	HIGHLAND TERRACE FOREST ST / ROLLING LANE GREAT PLAIN AV Rte 135 W / CHAPEL ST
11/2/2014 10/7/2014	1:58 AM Non-fatal injury 7:25 PM Property damage only (none injured)	No injury Non-fatal injury - Non-incapacitating No injury	Sideswipe, opposite direction Single vehicle crash Angle	Unknown Collision with utility pole Collision with motor vehicle in traffic	D1:(No improper driving) D1:(Failure to keep in proper lane or running off road) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(No improper driving) D2:(Failed to yield right of way)	Dry Wet Dry	Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway	Clear Rain/Cloudy Clear	HIGHLAND TERRACE FOREST ST / ROLLING LANE GREAT PLAIN AV Rte 135 W / CHAPEL ST
11/2/2014 10/7/2014 11/6/2014	1:58 AM Non-fatal injury 7:25 PM Property damage only (none injured) 6:08 PM Property damage only (none injured)	No injury  Non-fatal injury - Non-incapacitating  No injury  No injury	Sideswipe, opposite direction Single vehicle crash Angle Angle	Unknown Collision with utility pole Collision with motor vehicle in traffic Collision with motor vehicle in traffic	D1:(No improper driving) D1:(Failure to keep in proper lane or running off road) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(No improper driving) D2:(Failed to yield right of way) D1:(No improper driving) D2:(Disregarded traffic signs,	Dry Wet Dry	Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway	Clear Rain/Cloudy Clear Rain/Rain	HIGHLAND TERRACE FOREST ST / ROLLING LANE GREAT PLAIN AV Rte 135 W / CHAPEL ST HIGHLAND AVENUE / GOULD STREET
11/2/2014 10/7/2014 11/6/2014 11/7/2014 11/10/2014	1:58 AM Non-fatal injury 7:25 PM Property damage only (none injured) 6:08 PM Property damage only (none injured) 7:41 PM Property damage only (none injured) 5:08 PM Property damage only (none injured)	No injury Non-fatal injury - Non-incapacitating No injury No injury No injury No injury	Sideswipe, opposite direction Single vehicle crash Angle Angle	Unknown Collision with utility pole Collision with motor vehicle in traffic Collision with motor vehicle in traffic	D1:(No improper driving) D1:(Failure to keep in proper lane or running off road) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(No improper driving) D2:(Failed to yield right of way) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings) D1:(Other improper action),(Failure to keep in proper lane or running off road) D2:(No improper driving) D3:(No	Dry Wet Dry Wet Dry Dry Dry	Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway	Clear Rain/Cloudy Clear Rain/Rain Clear Clear	HIGHLAND TERRACE FOREST ST / ROLLING LANE GREAT PLAIN AV Rte 135 W / CHAPEL ST HIGHLAND AVENUE / GOULD STREET ROSEMARY STREET / HIGHLAND AVENUE DEDHAM AVE. / SOUTH ST
11/2/2014 10/7/2014 11/6/2014 11/7/2014 11/10/2014 11/11/2014	1:58 AM Non-fatal injury 7:25 PM Property damage only (none injured) 6:08 PM Property damage only (none injured) 7:41 PM Property damage only (none injured) 5:08 PM Property damage only (none injured) 6:55 PM Property damage only (none injured)	No injury Non-fatal injury - Non-incapacitating No injury No injury No injury	Sideswipe, opposite direction Single vehicle crash Angle Angle Angle	Unknown Collision with utility pole Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic	D1:(No improper driving) D1:(Failure to keep in proper lane or running off road) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(No improper driving) D2:(Failed to yield right of way) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings) D1:(Other improper action),(Failure to keep in proper lane	Dry Wet Dry	Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway	Clear Rain/Cloudy Clear Rain/Rain Clear	HIGHLAND TERRACE FOREST ST / ROLLING LANE GREAT PLAIN AV Rte 135 W / CHAPEL ST HIGHLAND AVENUE / GOULD STREET ROSEMARY STREET / HIGHLAND AVENUE
11/2/2014 10/7/2014 11/6/2014 11/7/2014 11/10/2014 11/11/2014 11/30/2014	1:58 AM Non-fatal injury 7:25 PM Property damage only (none injured) 6:08 PM Property damage only (none injured) 7:41 PM Property damage only (none injured) 5:08 PM Property damage only (none injured) 6:55 PM Property damage only (none injured) 4:40 PM Property damage only (none injured)	No injury Non-fatal injury - Non-incapacitating No injury No injury No injury No injury No injury No injury No injury No injury	Sideswipe, opposite direction Single vehicle crash Angle Angle Angle Head-on Rear-end Rear-end	Unknown Collision with utility pole Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic	D1:(No improper driving) D1:(Failure to keep in proper lane or running off road) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(No improper driving) D2:(Failed to yield right of way) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings) D1:(Other improper action),(Failure to keep in proper lane or running off road) D2:(No improper driving) D3:(No D1:(No improper driving) D2:(Made an improper turn) D1:(No improper driving) D2:(Other improper action)	Dry Wet Dry Wet Dry Dry Dry	Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway	Clear Rain/Cloudy Clear Rain/Rain Clear  Clear Clear Clear Clear	HIGHLAND TERRACE FOREST ST / ROLLING LANE GREAT PLAIN AV Rte 135 W / CHAPEL ST HIGHLAND AVENUE / GOULD STREET  ROSEMARY STREET / HIGHLAND AVENUE  DEDHAM AVE. / SOUTH ST WEST ST / HIGHLAND AV WEBSTER ST / KINGSBURY STREET
11/2/2014 10/7/2014 11/6/2014 11/7/2014 11/10/2014 11/11/2014 11/30/2014 11/25/2014	1:58 AM Non-fatal injury 7:25 PM Property damage only (none injured) 6:08 PM Property damage only (none injured) 7:41 PM Property damage only (none injured) 5:08 PM Property damage only (none injured) 6:55 PM Property damage only (none injured) 4:40 PM Property damage only (none injured) 6:27 PM Property damage only (none injured)	No injury Non-fatal injury - Non-incapacitating No injury No injury No injury No injury No injury No injury No injury No injury No injury No injury	Sideswipe, opposite direction Single vehicle crash Angle Angle Angle Head-on Rear-end Rear-end Sideswipe, same direction	Unknown Collision with utility pole Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic	D1:(No improper driving) D1:(Failure to keep in proper lane or running off road) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(No improper driving) D2:(Failed to yield right of way) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings) D1:(Other improper action),(Failure to keep in proper lane or running off road) D2:(No improper driving) D3:(No D1:(No improper driving) D2:(Made an improper turn) D1:(No improper driving) D2:(Other improper action) D1:(Failed to yield right of way) D2:(No improper driving)	Dry Wet Dry Wet  Dry Dry Dry Dry Dry Dry Dry	Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway	Clear Rain/Cloudy Clear Rain/Rain Clear Clear Clear Clear Clear Clear Clear Clear	HIGHLAND TERRACE FOREST ST / ROLLING LANE GREAT PLAIN AV RIE 135 W / CHAPEL ST HIGHLAND AVENUE / GOULD STREET  ROSEMARY STREET / HIGHLAND AVENUE  DEDHAM AVE. / SOUTH ST WEST ST / HIGHLAND AV WEBSTER ST / KINGSBURY STREET WEBSTER ST / GREENDALE AVE
11/2/2014 10/7/2014 11/6/2014 11/7/2014 11/10/2014 11/11/2014 11/30/2014	1:58 AM Non-fatal injury 7:25 PM Property damage only (none injured) 6:08 PM Property damage only (none injured) 7:41 PM Property damage only (none injured) 5:08 PM Property damage only (none injured) 6:55 PM Property damage only (none injured) 4:40 PM Property damage only (none injured)	No injury Non-fatal injury - Non-incapacitating No injury No injury No injury No injury No injury No injury No injury No injury	Sideswipe, opposite direction Single vehicle crash Angle Angle Angle Head-on Rear-end Rear-end	Unknown Collision with utility pole Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic	D1:(No improper driving) D1:(Failure to keep in proper lane or running off road) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(No improper driving) D2:(Failed to yield right of way) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings) D1:(Other improper action),(Failure to keep in proper lane or running off road) D2:(No improper driving) D3:(No D1:(No improper driving) D2:(Made an improper turn) D1:(No improper driving) D2:(Other improper action) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Disregarded traffic signs, signals, road markings) D2:(No	Dry Wet Dry Wet  Dry Dry Dry Dry Dry Dry Dry	Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway	Clear Rain/Cloudy Clear Rain/Rain Clear  Clear Clear Clear Clear	HIGHLAND TERRACE FOREST ST / ROLLING LANE GREAT PLAIN AV Rte 135 W / CHAPEL ST HIGHLAND AVENUE / GOULD STREET  ROSEMARY STREET / HIGHLAND AVENUE  DEDHAM AVE. / SOUTH ST WEST ST / HIGHLAND AV WEBSTER ST / KINGSBURY STREET
11/2/2014 10/7/2014 11/6/2014 11/7/2014 11/10/2014 11/11/2014 11/30/2014 11/30/2014 11/25/2014	1:58 AM Non-fatal injury 7:25 PM Property damage only (none injured) 6:08 PM Property damage only (none injured) 7:41 PM Property damage only (none injured) 5:08 PM Property damage only (none injured) 6:55 PM Property damage only (none injured) 4:40 PM Property damage only (none injured) 6:27 PM Property damage only (none injured) 8:21 PM Non-fatal injury	No injury Non-fatal injury - Non-incapacitating No injury No injury No injury No injury No injury No injury No injury No injury No injury No injury No injury No injury No injury No injury	Sideswipe, opposite direction Single vehicle crash Angle Angle Angle Angle Head-on Rear-end Rear-end Sideswipe, same direction Angle	Unknown Collision with utility pole Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic	D1:(No improper driving) D1:(Failure to keep in proper lane or running off road) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(No improper driving) D2:(Failed to yield right of way) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings) D1:(Other improper action),(Failure to keep in proper lane or running off road) D2:(No improper driving) D3:(No D1:(No improper driving) D2:(Made an improper turn) D1:(No improper driving) D2:(Other improper action) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(Operating vehicle in erratic, reckless, careless, negligent	Dry Wet Dry Wet  Dry Dry Dry Dry Dry Dry Dry	Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway	Clear Rain/Cloudy Clear Rain/Rain Clear Clear Clear Clear Clear Clear Clear Clear Clear Clear Clear Clear Clear Clear Clear Clear Clear/Clear	HIGHLAND TERRACE FOREST ST / ROLLING LANE GREAT PLAIN AV RTE 135 W / CHAPEL ST HIGHLAND AVENUE / GOULD STREET  ROSEMARY STREET / HIGHLAND AVENUE  DEDHAM AVE. / SOUTH ST WEST ST / HIGHLAND AV WEBSTER ST / KINGSBURY STREET WEBSTER ST / GREENDALE AVE WEBSTER ST / HIGH STREET
11/2/2014 10/7/2014 11/6/2014 11/7/2014 11/10/2014 11/11/2014 11/30/2014 11/25/2014	1:58 AM Non-fatal injury 7:25 PM Property damage only (none injured) 6:08 PM Property damage only (none injured) 7:41 PM Property damage only (none injured) 5:08 PM Property damage only (none injured) 6:55 PM Property damage only (none injured) 4:40 PM Property damage only (none injured) 6:27 PM Property damage only (none injured)	No injury Non-fatal injury - Non-incapacitating No injury No injury No injury No injury No injury No injury No injury No injury No injury No injury	Sideswipe, opposite direction Single vehicle crash Angle Angle Angle Head-on Rear-end Rear-end Sideswipe, same direction	Unknown Collision with utility pole Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic	D1:(No improper driving) D1:(Failure to keep in proper lane or running off road) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(No improper driving) D2:(Failed to yield right of way) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings) D1:(Other improper action),(Failure to keep in proper lane or running off road) D2:(No improper driving) D3:(No D1:(No improper driving) D2:(Made an improper turn) D1:(No improper driving) D2:(Other improper action) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Disregarded traffic signs, signals, road markings) D2:(No	Dry Wet Dry Wet  Dry Dry Dry Dry Dry Dry Dry	Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway	Clear Rain/Cloudy Clear Rain/Rain Clear Clear Clear Clear Clear Clear Clear Clear	HIGHLAND TERRACE FOREST ST / ROLLING LANE GREAT PLAIN AV RIE 135 W / CHAPEL ST HIGHLAND AVENUE / GOULD STREET  ROSEMARY STREET / HIGHLAND AVENUE  DEDHAM AVE. / SOUTH ST WEST ST / HIGHLAND AV WEBSTER ST / KINGSBURY STREET WEBSTER ST / GREENDALE AVE
11/2/2014 10/7/2014 11/6/2014 11/7/2014 11/10/2014 11/11/2014 11/30/2014 11/30/2014 11/25/2014	1:58 AM Non-fatal injury 7:25 PM Property damage only (none injured) 6:08 PM Property damage only (none injured) 7:41 PM Property damage only (none injured) 5:08 PM Property damage only (none injured) 6:55 PM Property damage only (none injured) 4:40 PM Property damage only (none injured) 6:27 PM Property damage only (none injured) 8:21 PM Non-fatal injury	No injury Non-fatal injury - Non-incapacitating No injury No injury No injury No injury No injury No injury No injury No injury No injury No injury No injury No injury No injury No injury	Sideswipe, opposite direction Single vehicle crash Angle Angle Angle Angle Head-on Rear-end Rear-end Sideswipe, same direction Angle	Unknown Collision with utility pole Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic	D1:(No improper driving) D1:(Failure to keep in proper lane or running off road) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(No improper driving) D2:(Failed to yield right of way) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings) D1:(Other improper action),(Failure to keep in proper lane or running off road) D2:(No improper driving) D3:(No D1:(No improper driving) D2:(Made an improper turn) D1:(No improper driving) D2:(Other improper action) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(Operating vehicle in erratic, reckless, careless, negligent	Dry Wet Dry Wet  Dry Dry Dry Dry Dry Dry Dry	Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway	Clear Rain/Cloudy Clear Rain/Rain Clear Clear Clear Clear Clear Clear Clear Clear Clear/Clear Clear/Clear Clear/Clear	HIGHLAND TERRACE FOREST ST / ROLLING LANE GREAT PLAIN AV RTE 135 W / CHAPEL ST HIGHLAND AVENUE / GOULD STREET  ROSEMARY STREET / HIGHLAND AVENUE  DEDHAM AVE. / SOUTH ST WEST ST / HIGHLAND AV WEBSTER ST / KINGSBURY STREET WEBSTER ST / GREENDALE AVE WEBSTER ST / HIGH STREET
11/2/2014 10/7/2014 11/6/2014 11/7/2014 11/10/2014 11/11/2014 11/30/2014 11/25/2014 11/25/2014 11/26/2014	1:58 AM Non-fatal injury 7:25 PM Property damage only (none injured) 6:08 PM Property damage only (none injured) 7:41 PM Property damage only (none injured) 5:08 PM Property damage only (none injured) 6:55 PM Property damage only (none injured) 4:40 PM Property damage only (none injured) 6:27 PM Property damage only (none injured) 8:21 PM Non-fatal injury 2:25 AM Property damage only (none injured)	No injury  Non-fatal injury - Non-incapacitating  No injury  Non-fatal injury - Possible  No injury	Sideswipe, opposite direction Single vehicle crash Angle Angle Angle  Head-on Rear-end Rear-end Sideswipe, same direction Angle  Angle  Angle	Unknown Collision with utility pole Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic	D1:(No improper driving) D1:(Failure to keep in proper lane or running off road) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(No improper driving) D2:(Failed to yield right of way) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings) D1:(Other improper action),(Failure to keep in proper lane or running off road) D2:(No improper driving) D3:(No D1:(No improper driving) D2:(Made an improper turn) D1:(No improper driving) D2:(Other improper action) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner) D2:(No improper driving)	Dry Wet Dry Wet Dry Dry Dry Dry Dry Dry Dry Dry Dry Dry	Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway	Clear Rain/Cloudy Clear Rain/Rain Clear Clear Clear Clear Clear Clear Clear Clear Clear Clear Clear Clear Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear	HIGHLAND TERRACE FOREST ST / ROLLING LANE GREAT PLAIN AV RIE 135 W / CHAPEL ST HIGHLAND AVENUE / GOULD STREET  ROSEMARY STREET / HIGHLAND AVENUE  DEDHAM AVE. / SOUTH ST WEST ST / HIGHLAND AV WEBSTER ST / KINGSBURY STREET WEBSTER ST / GREENDALE AVE WEBSTER ST / HIGH STREET  GREAT PLAIN AVENUE / GREENDALE AVENUE
11/2/2014 10/7/2014 11/6/2014 11/7/2014 11/10/2014 11/11/2014 11/12/2014 11/25/2014 11/25/2014 11/26/2014	1:58 AM Non-fatal injury 7:25 PM Property damage only (none injured) 6:08 PM Property damage only (none injured) 7:41 PM Property damage only (none injured) 5:08 PM Property damage only (none injured) 6:55 PM Property damage only (none injured) 4:40 PM Property damage only (none injured) 6:27 PM Property damage only (none injured) 8:21 PM Non-fatal injury 2:25 AM Property damage only (none injured)	No injury Non-fatal injury - Non-incapacitating No injury No injury No injury No injury No injury No injury No injury No injury No injury No injury No injury No injury Non-fatal injury - Possible No injury	Sideswipe, opposite direction Single vehicle crash Angle Angle Angle Angle Head-on Rear-end Sideswipe, same direction Angle Angle Single vehicle crash	Unknown Collision with utility pole Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic	D1:(No improper driving) D1:(Failure to keep in proper lane or running off road) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(No improper driving) D2:(Failed to yield right of way) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings) D1:(Other improper action),(Failure to keep in proper lane or running off road) D2:(No improper driving) D3:(No D1:(No improper driving) D2:(Made an improper turn) D1:(No improper driving) D2:(Other improper action) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner) D2:(No improper driving)	Dry Wet Dry Wet Dry Dry Dry Dry Dry Dry Dry Dry Dry Slush	Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway  Dark - lighted roadway  Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway	Clear Rain/Cloudy Clear Rain/Rain Clear Clear Clear Clear Clear Clear Clear Clear Clear Clear Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear	HIGHLAND TERRACE FOREST ST / ROLLING LANE GREAT PLAIN AV RTE 135 W / CHAPEL ST HIGHLAND AVENUE / GOULD STREET  ROSEMARY STREET / HIGHLAND AVENUE  DEDHAM AVE. / SOUTH ST WEST ST / HIGHLAND AV WEBSTER ST / KINGSBURY STREET WEBSTER ST / GREENDALE AVE WEBSTER ST / HIGH STREET  GREAT PLAIN AVENUE / GREENDALE AVENUE  CHARLES RIVER STREET
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11/2/2014 10/7/2014 11/6/2014 11/6/2014 11/1/2014 11/1/2014 11/1/2014 11/25/2014 11/25/2014 11/26/2014 11/26/2014 11/29/2014 11/29/2014 11/30/2014 11/30/2014	1:58 AM Non-fatal injury 7:25 PM Property damage only (none injured) 6:08 PM Property damage only (none injured) 7:41 PM Property damage only (none injured) 5:08 PM Property damage only (none injured) 6:55 PM Property damage only (none injured) 4:40 PM Property damage only (none injured) 6:27 PM Property damage only (none injured) 8:21 PM Non-fatal injury 2:25 AM Property damage only (none injured) 4:02 PM Property damage only (none injured) 7:15 PM Property damage only (none injured) 7:15 PM Property damage only (none injured) 7:15 PM Property damage only (none injured) 5:07 PM Property damage only (none injured)	No injury Non-fatal injury - Non-incapacitating No injury No injury No injury No injury No injury No injury No injury No injury No injury Non-fatal injury - Possible No injury No injury No injury No injury No injury No injury No injury No injury No injury No injury No injury No injury	Sideswipe, opposite direction Single vehicle crash Angle Angle Angle  Head-on Rear-end Sideswipe, same direction Angle  Angle  Single vehicle crash Angle Single vehicle crash Single vehicle crash Angle Single vehicle crash Angle	Unknown Collision with utility pole Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with animal - deer Collision with animal - deer Collision with motor vehicle in traffic	D1:(No improper driving) D1:(Failure to keep in proper lane or running off road) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(No improper driving) D2:(Failed to yield right of way) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings) D1:(Other improper action),(Failure to keep in proper lane or running off road) D2:(No improper driving) D3:(No D1:(No improper driving) D2:(Made an improper turn) D1:(No improper driving) D2:(Other improper action) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner) D2:(No improper driving) D1:(Driving too fast for conditions) D1:(Unknown) D1:(No improper driving) D1:(No improper driving) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner) D2:(No improper driving)	Dry Wet Dry Wet  Dry Dry Dry Dry Dry Dry Dry Dry Dry Dr	Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway Dark - lighted roadway	Clear Rain/Cloudy Clear Rain/Rain Clear Clear/Clear Clear Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Sleet, hail (freezing rain or drizzle)/Sleet, hail (freezing rain or drizzle) Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Rain/Cloudy	HIGHLAND TERRACE FOREST ST / ROLLING LANE GREAT PLAIN AV RIE 135 W / CHAPEL ST HIGHLAND AVENUE / GOULD STREET  ROSEMARY STREET / HIGHLAND AVENUE  DEDHAM AVE. / SOUTH ST WEST ST / HIGHLAND AV WEBSTER ST / KINGSBURY STREET WEBSTER ST / GREENDALE AVE WEBSTER ST / HIGH STREET  GREAT PLAIN AVENUE / GREENDALE AVENUE  CHARLES RIVER STREET KENNEY STREET / GREENDALE AVENUE  SOUTH ST FOURTH AVENUE  ABBOTT STREET / WARE ROAD
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11/2/2014 10/7/2014 11/6/2014 11/6/2014  11/1/2014 11/1/2014 11/1/2014 11/30/2014 11/25/2014 11/25/2014 11/26/2014 11/26/2014 11/29/2014 11/30/2014 11/30/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014	1:58 AM Non-fatal injury 7:25 PM Property damage only (none injured) 6:08 PM Property damage only (none injured) 7:41 PM Property damage only (none injured) 5:08 PM Property damage only (none injured) 6:55 PM Property damage only (none injured) 4:40 PM Property damage only (none injured) 6:27 PM Property damage only (none injured) 8:21 PM Non-fatal injury 2:25 AM Property damage only (none injured) 4:02 PM Property damage only (none injured) 5:30 PM Property damage only (none injured) 5:30 PM Property damage only (none injured) 7:15 PM Property damage only (none injured) 5:07 PM Property damage only (none injured) 7:30 PM Property damage only (none injured) 7:30 PM Property damage only (none injured) 7:30 PM Property damage only (none injured) 7:34 PM Property damage only (none injured) 5:47 PM Property damage only (none injured) 5:47 PM Property damage only (none injured)	No injury Non-fatal injury - Non-incapacitating No injury No injury No injury No injury No injury No injury No injury Non-fatal injury - Possible No injury No injury No injury No injury No injury No injury No injury No injury No injury No injury No injury No injury No injury No injury No injury No injury No injury No injury	Sideswipe, opposite direction Single vehicle crash Angle Angle Angle Angle Head-on Rear-end Sideswipe, same direction Angle Angle Single vehicle crash Angle Single vehicle crash Single vehicle crash Angle Rear-end Angle Rear-end Angle Rear-end Angle	Unknown Collision with utility pole Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with animal - deer Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic	D1:(No improper driving) D1:(Failure to keep in proper lane or running off road) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(No improper driving) D2:(Failed to yield right of way) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings) D1:(Other improper action),(Failure to keep in proper lane or running off road) D2:(No improper driving) D3:(No D1:(No improper driving) D2:(Made an improper turn) D1:(No improper driving) D2:(Other improper action) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner) D2:(No improper driving) D1:(Inving too fast for conditions) D1:(No improper driving) D1:(No improper driving) D1:(No improper driving) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner) D2:(No improper driving) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner) D2:(No improper driving)	Dry Wet Dry Wet Dry Dry Dry Dry Dry Dry Dry Dry Dry Dry	Dark - lighted roadway Dark - lighted roadway	Clear Rain/Cloudy Clear Rain/Rain Clear Clear Clear Clear Clear Clear Clear Clear Clear Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear  Clear/Clear Sleet, hail (freezing rain or drizzle)/Sleet, hail (freezing rain or drizzle) Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Cloudy Clear/Clear	HIGHLAND TERRACE FOREST ST / ROLLING LANE GREAT PLAIN AV RIE 135 W / CHAPEL ST HIGHLAND AVENUE / GOULD STREET  ROSEMARY STREET / HIGHLAND AVENUE  DEDHAM AVE. / SOUTH ST WEST ST / HIGHLAND AV WEBSTER ST / KINGSBURY STREET WEBSTER ST / GREENDALE AVE WEBSTER ST / HIGH STREET  GREAT PLAIN AVENUE / GREENDALE AVENUE  CHARLES RIVER STREET KENNEY STREET / GREENDALE AVENUE SOUTH ST FOURTH AVENUE ABBOTT STREET / WARE ROAD  GREAT PLAIN AVENUE HIGHLAND AVE / HUNTING RD GROVE ST HIGHLAND AVENUE / WEXFORD STREET
11/2/2014 10/7/2014 11/6/2014 11/6/2014  11/7/2014  11/10/2014 11/10/2014 11/10/2014 11/25/2014 11/25/2014  11/26/2014  11/26/2014 11/29/2014 11/29/2014 11/29/2014 11/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014	1:58 AM Non-fatal injury 7:25 PM Property damage only (none injured) 6:08 PM Property damage only (none injured) 7:41 PM Property damage only (none injured) 5:08 PM Property damage only (none injured) 6:55 PM Property damage only (none injured) 4:40 PM Property damage only (none injured) 6:27 PM Property damage only (none injured) 8:21 PM Non-fatal injury 2:25 AM Property damage only (none injured) 4:02 PM Property damage only (none injured) 7:15 PM Property damage only (none injured) 5:30 PM Property damage only (none injured) 7:15 PM Property damage only (none injured) 7:15 PM Property damage only (none injured) 7:30 PM Property damage only (none injured) 7:30 PM Property damage only (none injured) 7:30 PM Property damage only (none injured) 7:47 PM Property damage only (none injured) 5:47 PM Property damage only (none injured) 6:16 PM Property damage only (none injured)	No injury Non-fatal injury - Non-incapacitating No injury No injury No injury No injury No injury No injury No injury No injury Non-fatal injury - Possible No injury	Sideswipe, opposite direction Single vehicle crash Angle Angle Angle Angle Head-on Rear-end Sideswipe, same direction Angle Angle Single vehicle crash Angle Single vehicle crash Angle Single vehicle crash Angle Rear-end Single vehicle crash Angle Head-on	Unknown Collision with utility pole Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with animal - deer Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic	D1:(No improper driving) D1:(Failure to keep in proper lane or running off road) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(No improper driving) D2:(Failed to yield right of way) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings) D1:(Other improper action),(Failure to keep in proper lane or running off road) D2:(No improper driving) D3:(No D1:(No improper driving) D2:(Made an improper turn) D1:(No improper driving) D2:(Other improper action) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner) D2:(No improper driving) D1:(Unknown) D1:(No improper driving) D1:(Unknown) D1:(No improper driving) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner) D2:(No improper driving) D1:(Unknown) D2:(Unknown) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner) D2:(No improper driving) D1:(Unknown) D2:(Unknown) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner) D2:(No improper driving)	Dry Wet Dry Wet  Dry Dry Dry Dry Dry Dry Dry Dry Dry Dr	Dark - lighted roadway Dark - lighted roadway	Clear Rain/Cloudy Clear Rain/Rain Clear Clear Clear Clear Clear Clear Clear Clear Clear Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear  Clear/Clear  Clear/Clear  Clear/Clear Clear/Clear Clear Clear/Clear Clear Clear Clear Clear/Clear Clear Clear Clear/Clear	HIGHLAND TERRACE FOREST ST / ROLLING LANE GREAT PLAIN AV RIE 135 W / CHAPEL ST HIGHLAND AVENUE / GOULD STREET  ROSEMARY STREET / HIGHLAND AVENUE  DEDHAM AVE. / SOUTH ST WEST ST / HIGHLAND AV WEBSTER ST / KINGSBURY STREET WEBSTER ST / GREENDALE AVE WEBSTER ST / HIGH STREET  GREAT PLAIN AVENUE / GREENDALE AVENUE  CHARLES RIVER STREET KENNEY STREET / GREENDALE AVENUE SOUTH ST FOURTH AVENUE ABBOTT STREET / WARE ROAD  GREAT PLAIN AVENUE HIGHLAND AVE / HUNTING RD GROVE ST
11/2/2014 10/7/2014 11/6/2014 11/6/2014 11/1/2014 11/1/2014 11/1/2014 11/3/2014 11/25/2014 11/25/2014 11/26/2014 11/26/2014 11/29/2014 11/29/2014 11/29/2014 11/201012 12/11/2014 12/15/2014 12/15/2014 12/15/2014 12/15/2014	1:58 AM Non-fatal injury 7:25 PM Property damage only (none injured) 6:08 PM Property damage only (none injured) 7:41 PM Property damage only (none injured) 5:08 PM Property damage only (none injured) 6:55 PM Property damage only (none injured) 4:40 PM Property damage only (none injured) 6:27 PM Property damage only (none injured) 8:21 PM Non-fatal injury 2:25 AM Property damage only (none injured) 12:30 AM Property damage only (none injured) 5:30 PM Property damage only (none injured) 7:15 PM Property damage only (none injured) 7:15 PM Property damage only (none injured) 5:07 PM Property damage only (none injured) 5:07 PM Property damage only (none injured) 7:30 PM Property damage only (none injured) 7:30 PM Property damage only (none injured) 7:30 PM Property damage only (none injured) 7:30 PM Property damage only (none injured) 6:16 PM Property damage only (none injured) 6:16 PM Property damage only (none injured) 4:46 PM Property damage only (none injured)	No injury Non-fatal injury - Non-incapacitating No injury No injury No injury No injury No injury No injury No injury No injury Non-fatal injury - Possible No injury	Sideswipe, opposite direction Single vehicle crash Angle Angle Angle  Head-on Rear-end Sideswipe, same direction Angle  Angle  Single vehicle crash Angle  Single vehicle crash Angle  Single vehicle crash Angle  Rear-end Angle  Rear-end Angle  Rear-end Angle  Rear-end Angle  Head-on Rear-end Angle Angle Angle Angle	Unknown Collision with utility pole Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with animal - deer Collision with animal - deer Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic	D1:(No improper driving) D1:(Failure to keep in proper lane or running off road) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(No improper driving) D2:(Failed to yield right of way) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings) D1:(Other improper action),(Failure to keep in proper lane or running off road) D2:(No improper driving) D3:(No D1:(No improper driving) D2:(No improper driving) D3:(No D1:(No improper driving) D2:(Other improper action) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner) D2:(No improper driving) D1:(Inving too fast for conditions) D1:(Inving too fast for conditions) D1:(No improper driving) D1:(No improper driving) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner) D2:(No improper driving) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner) D2:(No improper driving) D1:(Inknown) D2:(Unknown) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner) D2:(No improper driving) D1:(No improper driving) D2:(No improper driving) D1:(No improper driving) D2:(No improper driving)	Dry Wet Dry Wet Dry Dry Dry Dry Dry Dry Dry Dry Dry Dry	Dark - lighted roadway Dark - lighted roadway	Clear Rain/Cloudy Clear Rain/Rain  Clear  Clear/Clear Clear Clear Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear  Clear/Clear  Clear/Clear  Clear/Clear  Clear/Clear Clear Clear/Clear Clear Clear/Clear Clear Clear	HIGHLAND TERRACE FOREST ST / ROLLING LANE GREAT PLAIN AV RTE 135 W / CHAPEL ST HIGHLAND AVENUE / GOULD STREET  ROSEMARY STREET / HIGHLAND AVENUE  DEDHAM AVE. / SOUTH ST WEST ST / HIGHLAND AV WEBSTER ST / KINGSBURY STREET WEBSTER ST / GREENDALE AVE WEBSTER ST / HIGH STREET  GREAT PLAIN AVENUE / GREENDALE AVENUE  CHARLES RIVER STREET KENNEY STREET / GREENDALE AVENUE SOUTH ST FOURTH AVENUE ABBOTT STREET / WARE ROAD  GREAT PLAIN AVENUE HIGHLAND AVE / HUNTING RD GROVE ST HIGHLAND AVE / HUNTING RD HIGHLAND AVE / ROSEMARY STREET WEBSTER ST
11/2/2014 10/7/2014 11/6/2014 11/6/2014 11/7/2014 11/1/2014 11/1/2014 11/1/2014 11/25/2014 11/25/2014 11/25/2014 11/26/2014 11/29/2014 11/29/2014 11/29/2014 11/29/2014 11/29/2014 11/2014 12/1/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/21/2014	1:58 AM Non-fatal injury 7:25 PM Property damage only (none injured) 6:08 PM Property damage only (none injured) 7:41 PM Property damage only (none injured) 5:08 PM Property damage only (none injured) 6:55 PM Property damage only (none injured) 4:40 PM Property damage only (none injured) 6:27 PM Property damage only (none injured) 8:21 PM Non-fatal injury 2:25 AM Property damage only (none injured) 12:30 AM Property damage only (none injured) 5:30 PM Property damage only (none injured) 7:15 PM Property damage only (none injured) 7:15 PM Property damage only (none injured) 7:30 PM Property damage only (none injured) 7:30 PM Property damage only (none injured) 7:30 PM Property damage only (none injured) 7:30 PM Property damage only (none injured) 7:44 PM Property damage only (none injured) 5:47 PM Property damage only (none injured) 6:16 PM Property damage only (none injured) 4:46 PM Property damage only (none injured) 7:57 PM Non-fatal injury	No injury Non-fatal injury - Non-incapacitating No injury No injury No injury No injury No injury No injury No injury Non-fatal injury - Possible No injury	Sideswipe, opposite direction Single vehicle crash Angle Angle Angle  Head-on Rear-end Rear-end Sideswipe, same direction Angle  Single vehicle crash Angle Single vehicle crash Angle Rear-end Angle Rear-end Angle Rear-end Angle Rear-end Angle Rear-end Angle	Unknown Collision with utility pole Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with animal - deer Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic	D1:(No improper driving) D1:(Failure to keep in proper lane or running off road) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(No improper driving) D2:(Failed to yield right of way) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings) D1:(Other improper action),(Failure to keep in proper lane or running off road) D2:(No improper driving) D3:(No D1:(No improper driving) D2:(Made an improper turn) D1:(No improper driving) D2:(Other improper action) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner) D2:(No improper driving) D1:(Unknown) D1:(No improper driving) D1:(No improper driving) D1:(No improper driving) D1:(No improper driving) D2:(No improper driving) D1:(No improper driving) D2:(Followed too D1:(Failed to yield right of way) D2:(No improper driving) D1:(Unknown) D2:(Unknown)	Dry Wet Dry Wet Dry Dry Dry Dry Dry Dry Dry Dry Dry Dry	Dark - lighted roadway Dark - lighted roadway	Clear Rain/Cloudy Clear Rain/Rain Clear Clear Clear Clear Clear Clear/Clear Clear/Cloudy	HIGHLAND TERRACE FOREST ST / ROLLING LANE GREAT PLAIN AV RTE 135 W / CHAPEL ST HIGHLAND AVENUE / GOULD STREET  ROSEMARY STREET / HIGHLAND AVENUE  DEDHAM AVE. / SOUTH ST WEST ST / HIGHLAND AV WEBSTER ST / KINGSBURY STREET WEBSTER ST / GREENDALE AVE WEBSTER ST / HIGH STREET  GREAT PLAIN AVENUE / GREENDALE AVENUE  CHARLES RIVER STREET KENNEY STREET / GREENDALE AVENUE SOUTH ST FOURTH AVENUE ABBOTT STREET / WARE ROAD  GREAT PLAIN AVENUE HIGHLAND AVE / HUNTING RD GROVE ST HIGHLAND AVENUE / WEXFORD STREET HIGHLAND AVE / ROSEMARY STREET WEBSTER ST SCHOOL ST / WARREN ST
11/2/2014 10/7/2014 11/6/2014 11/6/2014 11/7/2014 11/10/2014 11/11/2014 11/30/2014 11/25/2014 11/25/2014 11/25/2014 11/26/2014 11/29/2014 11/29/2014 11/29/2014 11/20104 12/12/2014 12/12/2014 12/12/2014 12/12/2014 12/12/2014 12/12/2014 12/12/2014 12/12/2014 12/12/2014	1:58 AM Non-fatal injury 7:25 PM Property damage only (none injured) 6:08 PM Property damage only (none injured) 7:41 PM Property damage only (none injured) 5:08 PM Property damage only (none injured) 6:55 PM Property damage only (none injured) 4:40 PM Property damage only (none injured) 6:27 PM Property damage only (none injured) 8:21 PM Non-fatal injury 2:25 AM Property damage only (none injured) 12:30 AM Property damage only (none injured) 5:30 PM Property damage only (none injured) 7:15 PM Property damage only (none injured) 7:15 PM Property damage only (none injured) 5:07 PM Property damage only (none injured) 7:30 PM Property damage only (none injured) 7:30 PM Property damage only (none injured) 7:30 PM Property damage only (none injured) 7:34 PM Property damage only (none injured) 5:47 PM Property damage only (none injured) 6:16 PM Property damage only (none injured) 4:46 PM Property damage only (none injured) 7:57 PM Non-fatal injury 4:50 PM Property damage only (none injured)	No injury Non-fatal injury - Non-incapacitating No injury No injury No injury No injury No injury No injury No injury Non-fatal injury - Possible No injury	Sideswipe, opposite direction Single vehicle crash Angle Angle Angle  Head-on Rear-end Sideswipe, same direction Angle  Angle  Angle  Angle  Angle  Angle  Angle  Angle  Angle  Angle  Single vehicle crash Angle Single vehicle crash Angle Single vehicle crash Angle Rear-end Angle  Rear-end Angle Head-on Rear-end Angle Angle Angle Angle Angle Angle Angle Angle Angle Angle Angle Angle	Unknown Collision with utility pole Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with animal - deer Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic	D1:(No improper driving) D1:(Failure to keep in proper lane or running off road) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(No improper driving) D2:(Failed to yield right of way) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings) D1:(Other improper action),(Failure to keep in proper lane or running off road) D2:(No improper driving) D3:(No D1:(No improper driving) D2:(Made an improper turn) D1:(No improper driving) D2:(Other improper action) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner) D2:(No improper driving) D1:(Unknown) D1:(Unknown) D1:(No improper driving) D1:(Unknown) D2:(Unknown) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner) D2:(No improper driving) D1:(Unknown) D2:(Unknown) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner) D2:(No improper driving) D1:(No improper driving) D2:(Ho improper driving) D1:(No improper driving) D2:(Unknown) D1:(No improper driving) D2:(Unknown) D1:(No improper driving) D2:(Unknown)	Dry Wet Dry Wet Dry Dry Dry Dry Dry Dry Dry Dry Dry Dry	Dark - lighted roadway Dark - lighted roadway	Clear Rain/Cloudy Clear Rain/Rain Clear Clear Clear Clear Clear Clear/Clear Cloudy Clear/Clear	HIGHLAND TERRACE FOREST ST / ROLLING LANE GREAT PLAIN AV Rte 135 W / CHAPEL ST HIGHLAND AVENUE / GOULD STREET  ROSEMARY STREET / HIGHLAND AVENUE  DEDHAM AVE. / SOUTH ST WEST ST / HIGHLAND AV WEBSTER ST / KINGSBURY STREET WEBSTER ST / GREENDALE AVE WEBSTER ST / HIGH STREET  GREAT PLAIN AVENUE / GREENDALE AVENUE  CHARLES RIVER STREET KENNEY STREET / GREENDALE AVENUE  SOUTH ST FOURTH AVENUE ABBOTT STREET / WARE ROAD  GREAT PLAIN AVENUE HIGHLAND AVE / HUNTING RD GROVE ST HIGHLAND AVE / ROSEMARY STREET WEBSTER ST SCHOOL ST / WARREN ST WEBSTER ST / MAY ST
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Non-incapacitating No injury No injury No injury No injury No injury No injury No injury No injury No-fatal injury - Possible No injury Non-fatal injury - Possible No injury Non-fatal injury - Possible	Sideswipe, opposite direction Single vehicle crash Angle Angle Angle  Head-on Rear-end Sideswipe, same direction Angle  Angle  Angle  Angle  Angle  Angle  Angle  Angle  Angle  Angle  Single vehicle crash Angle Single vehicle crash Single vehicle crash Angle Rear-end Angle Rear-end Angle Angle Head-on Rear-end Angle Angle Angle Angle Angle Angle Angle Angle Angle Sideswipe, same direction	Unknown Collision with utility pole Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with animal - 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11/2/2014 10/7/2014 11/6/2014 11/6/2014 11/7/2014 11/10/2014 11/11/2014 11/12/2014 11/25/2014 11/25/2014 11/26/2014 11/26/2014 11/29/2014 11/29/2014 11/20101 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014	1:58 AM Non-fatal injury 7:25 PM Property damage only (none injured) 6:08 PM Property damage only (none injured) 7:41 PM Property damage only (none injured) 7:41 PM Property damage only (none injured) 6:55 PM Property damage only (none injured) 6:55 PM Property damage only (none injured) 6:27 PM Property damage only (none injured) 8:21 PM Non-fatal injury 2:25 AM Property damage only (none injured) 4:02 PM Property damage only (none injured) 12:30 AM Property damage only (none injured) 5:30 PM Property damage only (none injured) 7:15 PM Property damage only (none injured) 5:07 PM Property damage only (none injured) 11:50 PM Property damage only (none injured) 7:30 PM Property damage only (none injured) 5:47 PM Property damage only (none injured) 5:47 PM Property damage only (none injured) 6:16 PM Property damage only (none injured) 4:46 PM Property damage only (none injured) 4:46 PM Property damage only (none injured) 7:57 PM Non-fatal injury 4:50 PM Property damage only (none injured) 4:30 PM Non-fatal injury 11:37 PM Property damage only (none injured)	No injury No-fatal injury - Non-incapacitating No injury No injury No injury No injury No injury No injury No injury No injury No-fatal injury - Possible No injury Non-fatal injury - Possible No injury	Sideswipe, opposite direction Single vehicle crash Angle Angle Angle Angle Angle  Head-on Rear-end Sideswipe, same direction Angle  Angle  Single vehicle crash Angle Single vehicle crash Angle Single vehicle crash Angle Rear-end Angle Rear-end Angle Angle Angle Angle Angle Head-on Rear-end Angle Angle Angle Angle Angle Angle Angle Angle Angle Sideswipe, same direction Single vehicle crash	Unknown Collision with utility pole Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with animal - 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lighted roadway Dark - lighted roadway	Clear Rain/Cloudy Clear Rain/Rain  Clear Clear/Clear Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear  Clear/Clear  Sleet, hail (freezing rain or drizzle)/Sleet, hail (freezing rain or drizzle) Clear/Clear	HIGHLAND TERRACE FOREST ST / ROLLING LANE GREAT PLAIN AV RIE 135 W / CHAPEL ST HIGHLAND AVENUE / GOULD STREET  ROSEMARY STREET / HIGHLAND AVENUE  DEDHAM AVE. / SOUTH ST WEST ST / HIGHLAND AV WEBSTER ST / KINGSBURY STREET WEBSTER ST / GREENDALE AVE WEBSTER ST / HIGH STREET  GREAT PLAIN AVENUE / GREENDALE AVENUE  CHARLES RIVER STREET KENNEY STREET / GREENDALE AVENUE  SOUTH ST FOURTH AVENUE ABBOTT STREET / WARE ROAD  GREAT PLAIN AVENUE HIGHLAND AVE / HUNTING RD GROVE ST HIGHLAND AVENUE / WEXFORD STREET HIGHLAND AVE / ROSEMARY STREET WEBSTER ST SCHOOL ST / WARREN ST WEBSTER ST / MAY ST / HIGHLAND AVENUE NEHOIDEN ST
11/2/2014 10/7/2014 11/6/2014 11/6/2014 11/1/2014 11/1/2014 11/1/2014 11/1/2014 11/25/2014 11/25/2014 11/25/2014 11/26/2014 11/29/2014 11/29/2014 11/29/2014 12/1/2014	1:58 AM Non-fatal injury 7:25 PM Property damage only (none injured) 6:08 PM Property damage only (none injured) 7:41 PM Property damage only (none injured) 5:08 PM Property damage only (none injured) 6:55 PM Property damage only (none injured) 4:40 PM Property damage only (none injured) 6:27 PM Property damage only (none injured) 8:21 PM Non-fatal injury 2:25 AM Property damage only (none injured) 12:30 AM Property damage only (none injured) 5:30 PM Property damage only (none injured) 7:15 PM Property damage only (none injured) 5:07 PM Property damage only (none injured) 7:15 PM Property damage only (none injured) 5:07 PM Property damage only (none injured) 5:47 PM Property damage only (none injured) 5:44 PM Property damage only (none injured) 5:47 PM Property damage only (none injured) 6:16 PM Property damage only (none injured) 4:46 PM Property damage only (none injured) 4:57 PM Non-fatal injury 4:50 PM Property damage only (none injured) 4:30 PM Non-fatal injury 4:50 PM Property damage only (none injured) 4:33 PM Property damage only (none injured) 4:33 PM Property damage only (none injured) 4:33 PM Property damage only (none injured) 4:33 PM Property damage only (none injured)	No injury No-fatal injury - 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lighted roadway Dark - lighted roadway	Clear Rain/Cloudy Clear Rain/Rain  Clear Clear Clear Clear Clear Clear Clear Clear Clear Clear/Clear Clear/Clear Clear/Clear  Clear/Clear Sleet, hail (freezing rain or drizzle)/Sleet, hail (freezing rain or drizzle) Clear/Clear Clear	HIGHLAND TERRACE FOREST ST / ROLLING LANE GREAT PLAIN AV RIE 135 W / CHAPEL ST HIGHLAND AVENUE / GOULD STREET  ROSEMARY STREET / HIGHLAND AVENUE  DEDHAM AVE. / SOUTH ST WEST ST / HIGHLAND AV WEBSTER ST / KINGSBURY STREET WEBSTER ST / GREENDALE AVE WEBSTER ST / HIGH STREET  GREAT PLAIN AVENUE / GREENDALE AVENUE  CHARLES RIVER STREET KENNEY STREET / GREENDALE AVENUE SOUTH ST FOURTH AVENUE ABBOTT STREET / WARE ROAD  GREAT PLAIN AVENUE HIGHLAND AVE / HUNTING RD GROVE ST HIGHLAND AVENUE / WEFORD STREET HIGHLAND AVENUE / WEFORD STREET HIGHLAND AVENUE / WEFORD STREET WEBSTER ST SCHOOL ST / WARREN ST WEBSTER ST / MAY ST / HIGHLAND AVENUE NEHOIDEN ST HIGHLAND AVENUE NEHOIDEN ST HIGHLAND AVENUE NEHOIDEN ST HIGHLAND AVENUE HIGHLAND AVENUE HIGHLAND AVENUE HIGHLAND AVENUE HIGHLAND AVENUE HIGHLAND AVENUE HIGHLAND AVENUE HIGHLAND AVENUE HIGHLAND AVENUE HIGHLAND AVENUE / WEBSTER STREET
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deer Collision with motor vehicle in traffic	D1:(No improper driving) D1:(Failure to keep in proper lane or running off road) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(No improper driving) D2:(Failed to yield right of way) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings) D1:(Other improper action),(Failure to keep in proper lane or running off road) D2:(No improper driving) D3:(No D1:(No improper driving) D2:(Made an improper turn) D1:(No improper driving) D2:(Other improper action) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner) D2:(No improper driving) D1:(Unknown) D1:(No improper driving) D1:(No improper driving) D1:(No improper driving) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner) D2:(No improper driving) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner) D2:(No improper driving) D1:(No improper driving) D2:(Other improper driving) D1:(No improper driving) D2:(Other improper driving) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Failed to yield right of way) D2:(No improper driving)	Dry Wet Dry Dry Dry Dry Dry Dry Dry Dry Dry Dry	Dark - 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HIGHLAND AVE / HUNTING RD
11/2/2014 10/7/2014 11/6/2014 11/6/2014 11/7/2014 11/1/2014 11/1/2014 11/1/2014 11/25/2014 11/25/2014 11/25/2014 11/26/2014 11/29/2014 11/29/2014 11/29/2014 11/29/2014 11/29/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 12/1/2014 11/1/2014 11/1/2014 11/1/2014 11/1/2014 11/1/2015 1/9/2015 1/10/2015	1:58 AM Non-fatal injury 7:25 PM Property damage only (none injured) 6:08 PM Property damage only (none injured) 7:41 PM Property damage only (none injured) 5:08 PM Property damage only (none injured) 6:55 PM Property damage only (none injured) 4:40 PM Property damage only (none injured) 6:27 PM Property damage only (none injured) 8:21 PM Non-fatal injury 2:25 AM Property damage only (none injured) 12:30 AM Property damage only (none injured) 5:30 PM Property damage only (none injured) 7:15 PM Property damage only (none injured) 7:15 PM Property damage only (none injured) 7:30 PM Property damage only (none injured) 7:30 PM Property damage only (none injured) 7:30 PM Property damage only (none injured) 6:44 PM Property damage only (none injured) 5:47 PM Property damage only (none injured) 6:16 PM Property damage only (none injured) 4:46 PM Property damage only (none injured) 4:50 PM Property damage only (none injured) 7:57 PM Non-fatal injury 4:50 PM Property damage only (none injured) 4:30 PM Non-fatal injury 4:50 PM Property damage only (none injured) 7:57 PM Non-fatal injury 7:26 PM Property damage only (none injured) 7:26 PM Property damage only (none injured) 7:26 PM Property damage only (none injured) 7:26 PM Property damage only (none injured) 7:26 PM Property damage only (none injured) 7:26 PM Property damage only (none injured) 7:26 PM Property damage only (none injured) 7:26 PM Property damage only (none injured) 7:26 PM Property damage only (none injured)	No injury Non-fatal injury - 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deer Collision with motor vehicle in traffic	D1:(No improper driving) D1:(Failure to keep in proper lane or running off road) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(No improper driving) D2:(Failed to yield right of way) D1:(No improper driving) D2:(Disregarded traffic signs, signals, road markings) D1:(Other improper action),(Failure to keep in proper lane or running off road) D2:(No improper driving) D3:(No D1:(No improper driving) D2:(Made an improper turn) D1:(No improper driving) D2:(Other improper action) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Disregarded traffic signs, signals, road markings) D2:(No D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner) D2:(No improper driving) D1:(Unknown) D1:(No improper driving) D1:(No improper driving) D1:(No improper driving) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner) D2:(No improper driving) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner) D2:(No improper driving) D1:(No improper driving) D2:(Other improper driving) D1:(No improper driving) D2:(Other improper driving) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Failed to yield right of way) D2:(No improper driving) D1:(Failed to yield right of way) D2:(No improper driving)	Dry Wet Dry Dry Dry Dry Dry Dry Dry Dry Dry Dry	Dark - lighted roadway Dark - lighted roadway	Clear Rain/Cloudy Clear Rain/Rain  Clear Clear Clear Clear Clear Clear Clear Clear Clear Clear Clear/Clear Clear/Clear Clear/Clear  Clear/Clear  Clear/Clear  Clear/Clear  Clear/Clear Clear Clear/Clear Clear Clear Clear Clear/Clear Clear	HIGHLAND TERRACE FOREST ST / ROLLING LANE GREAT PLAIN AV RTE 135 W / CHAPEL ST HIGHLAND AVENUE / GOULD STREET  ROSEMARY STREET / HIGHLAND AVENUE  DEDHAM AVE. / SOUTH ST WEST ST / HIGHLAND AV WEBSTER ST / KINGSBURY STREET WEBSTER ST / KINGSBURY STREET WEBSTER ST / HIGH STREET  GREAT PLAIN AVENUE / GREENDALE AVENUE  CHARLES RIVER STREET KENNEY STREET / GREENDALE AVENUE  SOUTH ST FOURTH AVENUE ABBOTT STREET / WARE ROAD  GREAT PLAIN AVENUE HIGHLAND AVE / HUNTING RD GROVE ST HIGHLAND AVE / HUNTING RD HIGHLAND AVE / ROSEMARY STREET WEBSTER ST SCHOOL ST / WARREN ST WEBSTER ST WEBSTER ST / MAY ST / HIGHLAND AVENUE NEHOIDEN ST HIGHLAND AVENUE NEHOIDEN ST HIGHLAND AVENUE NEHOIDEN ST HIGHLAND AVENUE NEHOIDEN ST HIGHLAND AVENUE HIGHLAND AVENUE HIGHLAND AVENUE HIGHLAND AVENUE HIGHLAND AVENUE HIGHLAND AVENUE HIGHLAND AVENUE HIGHLAND AVENUE HIGHLAND AVENUE HIGHLAND AVENUE / WEBSTER STREET  DEDHAM AVE. HIGHLAND AVE / HUNTING RD

Crash Date	Crash Time	Crash Severity	Maximum Injury Severity Reported	Manner of Collision	First Harmful Event	Driver Contributing Codes	Road Surface	Ambient Light	Weather Condition	Roadway
1/16/2015		/ Non-fatal injury	Non-fatal injury - Possible	Angle	Collision with motor vehicle in traffic		Dry Road Surface	Dark - lighted roadway	Clear	HIGHLAND AV / WEST ST
1/18/2015		A Property damage only (none injured)	No injury	Rear-end	Collision with parked motor vehicle	D1:(Failure to keep in proper lane or running off road)	Wet	Dark - lighted roadway	Rain/Fog, smog, smoke	CENTRAL AV / BOOTH ST
1/3/2015		/ Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	D1:(Followed too closely) D2:(No improper driving)	Snow	Dark - lighted roadway	Snow/Sleet, hail (freezing rain or drizzle)	CHESTNUT ST / GREAT PLAIN AVE
1/20/2015	5:41 PM	Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D4 (N : 1:: ) D2 (G : : : : : : : : : : : : : : : : : :	Dry	Dark - lighted roadway	Clear/Clear	2ND AVE / A STREET
1/24/2015	4:20 DM	↑ Property damage only (none injured)	No injury	Sideswipe, same direction	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Swerving or avoiding due to wind, slippery surface, vehicle, object, non-motorist in	Snow	Dark - lighted roadway	Snow/Snow	CENTRAL AVE
1/24/2013	4.55 1 101	in roperty damage only (none injured)	140 mjury	Sideswipe, same direction	Comision with motor vehicle in traine	willia, supperly sarrace, venicle, object, non-motorist in	SHOW	Dark - lighted roadway	Silow/Silow	CENTRALAVE
1/24/2015	6:35 PM	Property damage only (none injured)	No injury	Single vehicle crash	Collision with curb	D1:(Unknown)	Snow	Dark - lighted roadway	Snow/Sleet, hail (freezing rain or drizzle)	4TH AVENUE / 2ND AVENUE
1/1/2015		Property damage only (none injured)	No injury	Sideswipe, same direction	Collision with parked motor vehicle	D1:(No improper driving) D2:(Failure to keep in proper lane	Dry	Dark - lighted roadway	Clear	WEBSTER ST
1/29/2015		// Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Disregarded traffic signs, signals, road markings) D2:(No		Dark - lighted roadway	Cloudy	CENTRAL AVE / GREAT PLAIN AVE
2/1/2015		Property damage only (none injured)	No injury	Single vehicle crash	Collision with motor vehicle in traffic	D1:(Failure to keep in proper lane or running off road)	Dry	Dark - lighted roadway	Clear/Clear	CENTRAL AVE / MARKED TREE RD
2/3/2015 2/13/2015		Property damage only (none injured)     Non-fatal injury	No injury Non-fatal injury - Possible	Angle Rear-end	Collision with motor vehicle in traffic  Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Failed to yield right of way) D1:(Followed too closely) D2:(No improper driving)	Snow Sand, mud, dirt, oil, grave	Dark - lighted roadway	Clear/Snow Clear/Clear	HUNNEWELL STREET / WELLESLEY AVE GREENDALE AVE
2/17/2015		A Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Unknown) D2:(No improper driving)	Snow	Dark - lighted roadway	Snow/Snow	SOUTH ST / DEDHAM AVE.
2/17/2015		/ Unknown	Unknown	Angle	Collision with motor vehicle in traffic	D1:(Unknown) D2:(Unknown)	Slush	Dark - lighted roadway	Snow/Snow	KENDRICK ST / HUNTING RD
						D1:(Operating vehicle in erratic, reckless, careless, negligent				
2/20/2015		Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	or aggressive manner),(Other improper action) D2:(No	Dry	Dark - lighted roadway	Clear/Clear	HIGHLAND AVE. / WEST ST.
2/20/2015	9:27 PM	Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic		Snow	Dark - lighted roadway	Clear/Snow	HARRIS AVE / WEBSTER STREET
2/24/2015	5-55 DM	A Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Disregarded traffic signs, signals, road markings) D2:(Disregarded traffic signs, signals, road markings)	Dry	Dark - lighted roadway	Clear	WARREN ST / SCHOOL STREET
1/16/2015		A Property damage only (none injured)	No injury	Head-on	Collision with motor vehicle in traine	D1:(No improper driving) D2:(No improper driving)	Snow	Dark - lighted roadway	Snow/Snow	SECOND AVENUE
3/5/2015		// Non-fatal injury	Non-fatal injury - Possible	Angle	Collision with motor vehicle in traffic		Dry	Dark - lighted roadway	Clear/Clear	HARRIS AVENUE / BRADFORD STREET
3/28/2015	11:21 PM	Unknown	Unknown	Head-on	Collision with parked motor vehicle	D1:(No improper driving) D2:(Unknown)	Dry	Dark - lighted roadway	Snow	MELROSE AVENUE
4/17/2015		Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Followed too	Dry	Dark - lighted roadway	Clear/Clear	CHESTNUT ST
4/21/2015		/ Non-fatal injury	Non-fatal injury - Non-incapacitating	Single vehicle crash	Collision with curb	D1:(Failure to keep in proper lane or running off	Dry	Dark - lighted roadway	Clear	SECOND AVENUE
6/18/2015		A Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	7 7 7 7 7	Dry	Dark - lighted roadway	Clear/Unknown	CENTRAL AVENUE
7/9/2015	9:15 PM	// Property damage only (none injured)	No injury	Single vehicle crash	Collision with curb	D1:(Inattention) D1:(Operating vehicle in erratic, reckless, careless, negligent	Wet	Dark - lighted roadway	Rain/Cloudy	2ND AVE
8/19/2015	11:29 PM	// Non-fatal injury	Non-fatal injury - Non-incapacitating	Single vehicle crash	Collision with utility pole		Dry	Dark - lighted roadway	Clear	SOUTH ST
8/25/2015		// Property damage only (none injured)	No injury	Sideswipe, same direction	Collision with parked motor vehicle	D1:(Distracted) D2:()	Dry	Dark - lighted roadway	Clear	LINDBERGH AVENUE
9/9/2015	7:29 PM	Property damage only (none injured)	No injury	Single vehicle crash	Collision with utility pole	D1:(Unknown)	Dry	Dark - lighted roadway	Clear/Unknown	CENTRAL AVE
9/11/2015	10:53 PM	/ Property damage only (none injured)	No injury	Single vehicle crash	Collision with unknown fixed object	D1:(Inattention)	Dry	Dark - lighted roadway	Clear	HILLSIDE AVE
40/25/2045	7.50.004		N. C. I	6. 1 1.1		D1:(Swerving or avoiding due to wind, slippery surface,			SI.	LUUNISIUSU ST
10/25/2015 12/12/2015		↑ Non-fatal injury ↑ Non-fatal injury	Non-fatal injury - Possible  Non-fatal injury - Non-incapacitating	Single vehicle crash Single vehicle crash	Collision with unknown fixed object  Collision with other light pole or other	vehicle, object, non-motorist in roadway, etc) D1:(Fatigued/asleep)	Dry Dry	Dark - lighted roadway  Dark - lighted roadway	Clear	HUNNEWELL ST SOUTH ST
12/12/2013	5.47 FIVI	i Non-ratar injury	Non-ratar injury - Non-incapacitating	Single venicle crash	Comsion with other light pole of other	D1:(Patigued/asieep) D1:(Disregarded traffic signs, signals, road markings),(Failed	Diy	Dark - lighted roadway	Clear	30011131
12/23/2015	9:28 PM	// Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	to yield right of way) D2:(No improper driving)	Wet	Dark - lighted roadway	Rain	GREAT PLAIN AVE / WEBSTER ST
12/24/2015		Property damage only (none injured)	No injury	Single vehicle crash	Collision with parked motor vehicle	D1:(Made an improper turn) D2:()	Dry	Dark - lighted roadway	Cloudy	ST MARY ST
12/28/2015		/ Property damage only (none injured)	No injury	Sideswipe, same direction	Collision with parked motor vehicle	D1:(No improper driving)	Dry	Dark - lighted roadway	Clear/Cloudy	RICHARD RD
11/21/2015	3:27 AM	/ Unknown	Unknown	Single vehicle crash	Collision with unknown fixed object	D1:(Unknown)	Dry	Dark - lighted roadway	Clear	SOUTH ST
11/20/2015	7.07.084	A Nam fatal inium.	Non-fatal initian. Describe	Dan and	Callinian with materials in traffic	D1:(No improper driving) D2:(Followed too	0	Davids Himbard and discount	Class	HIGHLAND AVENUE / RAMP-RTS 95 NB/128
11/30/2015	7:07 PIVI	/ Non-fatal injury	Non-fatal injury - Possible	Rear-end	Collision with motor vehicle in traffic	closely),(Inattention) D1:(Swerving or avoiding due to wind, slippery surface,	Dry	Dark - lighted roadway	Clear	NB TO HIGHLAND AVE NB
11/30/2015	7:59 PM	// Property damage only (none injured)	No injury	Single vehicle crash	Collision with embankment	vehicle, object, non-motorist in roadway, etc)	Dry	Dark - lighted roadway	Clear	CENTRAL AVE
, ,		1	3.7			D1:(Operating vehicle in erratic, reckless, careless, negligent	<u> </u>	0,		
12/1/2015	5:21 PM	Non-fatal injury	Non-fatal injury - Non-incapacitating	Rear-end	Collision with motor vehicle in traffic	or aggressive manner),(Followed too closely) D2:(No	Dry	Dark - lighted roadway	Cloudy	WEST ST
12/2/2015		/ Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Distracted)	Wet	Dark - lighted roadway	Cloudy/Rain	HIGHLAND AVE
10/15/2015		Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic		Dry	Dark - lighted roadway	Clear/Unknown	CHESTNUT STREET / SOUTHFIELD COURT
11/2/2015 11/12/2015		Property damage only (none injured)     Property damage only (none injured)	No injury No injury	Angle Single vehicle crash	Collision with motor vehicle in traffic  Collision with work zone maintenance equipment	D1:(No improper driving) D2:(Inattention)	Dry Wet	Dark - lighted roadway	Clear/Unknown Cloudy/Rain	CHAPEL STREET / GREAT PLAIN AVENUE KENDRICK STREET
11/12/2015		A Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic		Dry	Dark - lighted roadway  Dark - lighted roadway	Clear	HIGHLAND AVENUE / FIRST AVENUE
11/24/2015	0.501141	Troperty damage only (none injured)	ito injuly	, and the second	Complete With Motor Vehicle III during	D1:(No improper driving) D2:(Followed too	Biy	Dark Ingitted roddwdy	Cicui	RAMP-RTS 95 NB/128 NB TO HIGHLAND AVE
12/1/2015	5:10 PM	// Non-fatal injury	Non-fatal injury - Possible	Rear-end	Collision with motor vehicle in traffic	closely),(Inattention)	Dry	Dark - lighted roadway	Clear	NB / HIGHLAND AVENUE
1/12/2016		Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	D1:(Followed too closely) D2:(No improper driving)	Snow	Dark - lighted roadway	Snow	CENTRAL AVE
1/24/2016		// Non-fatal injury	Non-fatal injury - Non-incapacitating	Single vehicle crash	Collision with utility pole	D1:(Driving too fast for conditions),(Other improper action)		Dark - lighted roadway	Blowing sand, snow	CENTRAL AVENUE / NOYES STREET
1/27/2016		Not Reported	Not reported	Single vehicle crash	Collision with guardrail	D1:(Failure to keep in proper lane or running off	Dry	Dark - lighted roadway	Clear (University	HIGHLAND AVE
2/11/2016 2/16/2016		Property damage only (none injured)     Property damage only (none injured)	No injury No injury	Sideswipe, opposite direction  Rear-end	Collision with motor vehicle in traffic  Collision with motor vehicle in traffic		Dry Wet	Dark - lighted roadway  Dark - lighted roadway	Clear/Unknown Rain	DEDHAM AVE / SOUTH ST HIGHLAND AVE
2/26/2016		A Non-fatal injury	Non-fatal injury - Non-incapacitating	Single vehicle crash	Collision with tree	D1:(No improper driving) D2:(Distracted),(Pollowed too D1:(Fatigued/asleep)	Dry	Dark - lighted roadway	Clear	SOUTH ST
2/28/2016		/ Not Reported	Not reported	Sideswipe, same direction	Collision with parked motor vehicle	D1:()	Dry	Dark - lighted roadway	Clear/Cloudy	ENSLIN RD
2/29/2016	8:49 PM	Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Other improper	Dry	Dark - lighted roadway	Clear	GREAT PLAIN AVE / CHAPEL ST
1/22/2016		Property damage only (none injured)	No injury	Rear-end	Collision with parked motor vehicle	D1:() D2:(Inattention)	Dry	Dark - lighted roadway	Clear	BERKSHIRE ROAD
10/16/2015		Property damage only (none injured)	No injury	Rear-end	Collision with parked motor vehicle		Dry	Dark - lighted roadway	Clear	COOLIDGE AVE
11/5/2015		A Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic		Dry	Dark - lighted roadway	Clear Cleardy (Pain	HIGHLAND AVE DEDHAM AVE
11/10/2015 11/10/2015		Property damage only (none injured)     Non-fatal injury	No injury Non-fatal injury - Possible	Sideswipe, same direction  Rear-end	Collision with motor vehicle in traffic  Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Failed to yield right of D1:(Followed too closely) D2:(No improper driving)	Dry Dry	Dark - lighted roadway  Dark - lighted roadway	Cloudy/Rain Clear	CHESTNUT ST
11/10/2015		A Non-fatal injury	Non-fatal injury - Possible  Non-fatal injury - Non-incapacitating	Angle	Collision with motor vehicle in traffic		Dry	Dark - lighted roadway	Clear	GREAT PLAIN AVE / MAPLE ST
, ==, == 25			, , , , , , , , , , , , , , , , , , , ,			D1:(Operating vehicle in erratic, reckless, careless, negligent	'	J		
11/20/2015		Property damage only (none injured)	No injury	Single vehicle crash	Collision with tree	or aggressive manner),(Distracted)	Wet	Dark - lighted roadway	Rain	CHESTNUT ST
11/20/2015		// Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	D1:(Unknown) D2:(Unknown)	Dry	Dark - lighted roadway	Clear	HIGHLAND AVE
12/22/2015		Property damage only (none injured)	No injury	Single vehicle crash	Collision with other light pole or other	D1:(Distracted)	Wet	Dark - lighted roadway	Rain/Cloudy	WEST ST
1/23/2016 2/4/2016		Property damage only (none injured)     Property damage only (none injured)	No injury No injury	Single vehicle crash  Rear-end	Collision with other  Collision with motor vehicle in traffic	D1:(No improper driving)	Snow Slush	Dark - lighted roadway  Dark - lighted roadway	Snow Clear/Other	HIGHLAND AVE / MAY ST GREAT PLAIN AVE
2/20/2016		// Property damage only (none injured) // Property damage only (none injured)	No injury No injury	Sideswipe, same direction	Collision with motor venicle in traffic  Collision with parked motor vehicle	D1:(No improper driving) D2:(Followed too closely) D1:(No improper driving) D2:(No improper driving)	Dry	Dark - lighted roadway  Dark - lighted roadway	Clear/Other Clear/Cloudy	LINDBERGH AVENUE
2/24/2016		A Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(No improper driving) D1:(Unknown) D2:(No improper driving)	Wet	Dark - lighted roadway	Rain/Clear	HUNNEWELL STREET
3/8/2016		Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Failure to keep in proper lane		Dark - lighted roadway	Clear	GREENDALE AVENUE
3/0/2010		// Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Unknown)	Dry	Dark - lighted roadway	Clear	CENTRAL AVENUE
4/1/2016	9:50 PM	in roperty damage only (none injured)								
4/1/2016						D1:(No improper driving) D2:(Disregarded traffic signs,				
	11:11 PM	// Non-fatal injury // Property damage only (none injured)	Non-fatal injury - Non-incapacitating No injury	Angle Sideswipe, same direction	Collision with motor vehicle in traffic Collision with parked motor vehicle	signals, road markings),(No improper driving)	Dry Dry	Dark - lighted roadway  Dark - lighted roadway	Clear Cloudy	GREAT PLAIN AVE / CHESTNUT ST HIGHLAND AVE

	Crash Time	Crash Severity	Maximum Injum Coverity Departed	Manner of Collision	First Harmful Event	Driver Contributing Codes	Road Surface	Ambient Light	Weather Condition	Roadway
Crash Date 5/15/2016		/ Non-fatal injury	Maximum Injury Severity Reported Non-fatal injury - Possible	Single vehicle crash	Collision with utility pole	D1:(Unknown)	Unknown	Dark - lighted roadway	Unknown	PARISH RD
5/19/2016		A Property damage only (none injured)	No injury	Single vehicle crash	Collision with parked motor vehicle	D1:(Other improper action) D2:(No improper driving) D3:()		Dark - lighted roadway	Clear	BERKSHIRE RD
5/6/2016		A Property damage only (none injured)	No injury	Single vehicle crash	Collision with unknown fixed object	D1:(Other improper action) D2:(No improper driving) D3:() D1:(Driving too fast for conditions)	Wet	Dark - lighted roadway	Rain/Cloudy	PARISH RD
6/28/2016		A Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(No improper driving)	Dry	Dark - lighted roadway	Clear	CHESTNUT ST / GREAT PLAIN AVE
6/28/2016		A Property damage only (none injured)	No injury	Single vehicle crash	Collision with curb		Dry	Dark - lighted roadway	Clear	SOUTH ST
0/28/2010	11.13 1 10	Troperty damage only (none injured)	into injury	Single vehicle crash	Comsion with turb	D1:(Operating vehicle in erratic, reckless, careless, negligent	ыу	Dark - lighted roadway	Clear	30011131
6/19/2016	1.40 AM	// Non-fatal injury	Non-fatal injury - Non-incapacitating	Angle	Collision with parked motor vehicle	or aggressive manner) D2:(No improper driving)	Dn/	Dark - lighted roadway	Clear	HIGHLAND AVENUE
0/13/2010	1.43 AIV	i Non-latal Injury	Non-ratar injury - Non-incapacitating	Arigie	Comsion with parked motor vehicle	D1:(Swerving or avoiding due to wind, slippery surface,	Diy	Dark - lighted roadway	Clear	THOREAND AVENUE
7/13/2016	0.00 PM	// Non-fatal injury	Non-fatal injury - Possible	Single vehicle crash	Collision with utility pole		Dry	Dark - lighted roadway	Clear	HIGHLAND AVE
7/19/2016		A Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic		Dry	Dark - lighted roadway	Clear	WEBSTER ST / HIGHLAND AVE
8/5/2016		// Non-fatal injury	Non-fatal injury - Non-incapacitating	Head-on	Collision with pedalcycle (bicycle, tricycle,		Dry	Dark - lighted roadway	Clear	HOOVER RD
8/6/2016		A Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	, ,	Dry	Dark - lighted roadway	Clear	HIGHLAND AVE
8/8/2016		A Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic		Dry	Dark - lighted roadway	Clear	CHAPEL ST / GREAT PLAIN AVE
8/22/2016		A Property damage only (none injured)	No injury	Single vehicle crash	Collision with unknown fixed object		Dry	Dark - lighted roadway	Clear	CHARLES RIVER ST
8/30/2016		// Non-fatal injury	Non-fatal injury - Non-incapacitating	Sideswipe, opposite direction	Collision with motor vehicle in traffic	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Dry	Dark - lighted roadway	Clear	HIGHLAND AVE
8/30/2010	0.27 FIV	in Non-ratar injury	Non-ratar injury - Non-incapacitating	Sideswipe, opposite direction	Comsion with motor vehicle in trame	D1:(Operating vehicle in erratic, reckless, careless, negligent	ы	Dark - lighted roadway	Clear	INGILAND AVE
9/1/2016	11:04 PM	// Property damage only (none injured)	No injury	Single vehicle crash	Collision with utility pole	or aggressive manner),(Failure to keep in proper lane or	Dn/	Dark - lighted roadway	Clear	GREENDALE AVE
9/28/2016		// Non-fatal injury	Non-fatal injury - Possible	Sideswipe, opposite direction	Collision with motor vehicle in traffic		Dry	Dark - lighted roadway	Clear	GARDEN STREET
3/20/2010	0.24 1 10	i Non-latal Injury	Non-ratar injury - r ossible	Sideswipe, opposite direction	Comsion with motor vehicle in traine	D1.(Tallule to keep in proper laile of Tullilling of Toda)	Diy	Dark - lighted roadway	Clear	RAMP-RTS 95 NB/128 NB TO HIGHLAND AVE
11/4/2016	Q:11 DM	// Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	D1:() D2:()	Dry	Dark - lighted roadway	Clear	NR
11/4/2010	J.11 1 IV	rroperty damage only (none injured)	into injury	Real-end	Comsion with motor vehicle in traine	D1.() D2.()	Diy	Dark - lighted roadway	Clear	IND
12/24/2016	11:01 DM	A Property damage only (none injured)	No injury	Head-on	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(No improper driving)	Ice	Dark - lighted roadway	Cloudy/Sleet, hail (freezing rain or drizzle)	NEHOIDEN ST
12/28/2016		// Not Reported	Not reported	Rear-end	Collision with parked motor vehicle			Dark - lighted roadway	Clear	MANNING ST
10/6/2016		A Property damage only (none injured)	No injury	Head-on	Collision with utility pole		Dry Dry	Dark - lighted roadway	Clear	CENTRAL AVE
10/6/2016		A Property damage only (none injured)	No injury	Angle	Collision with utility pole  Collision with motor vehicle in traffic		Dry	Dark - lighted roadway	Clear	WEBSTER ST
12/5/2016		A Property damage only (none injured)  A Property damage only (none injured)	No injury No injury	Single vehicle crash	Collision with motor venicle in traffic  Collision with utility pole		Ice	Dark - lighted roadway  Dark - lighted roadway	Sleet, hail (freezing rain or drizzle)	NOANETT RD
12/5/2016		// Property damage only (none injured) // Property damage only (none injured)		Single vehicle crash	, ·		Wet		Clear	WELLESLEY AVENUE
12/5/2016		// Property damage only (none injured) // Property damage only (none injured)	No injury No injury	Single vehicle crash Single vehicle crash	Collision with bridge overhead structure  Collision with utility pole		Dry	Dark - lighted roadway  Dark - lighted roadway	Cloudy	HIGHLAND AVE
					,		•		Clear	
12/12/2016 12/15/2016		Property damage only (none injured)     Non-fatal injury	No injury Non-fatal injury - Possible	Rear-end Rear-end	Collision with motor vehicle in traffic  Collision with motor vehicle in traffic		Dry Dry	Dark - lighted roadway  Dark - lighted roadway	Cloudy/Other	WEBSTER ST GREAT PLAIN AVE
							Wet			
11/3/2016		Property damage only (none injured)	No injury	Sideswipe, same direction	Collision with motor vehicle in traffic			Dark - lighted roadway	Cloudy	HIGHLAND AVE
12/24/2016		/ Non-fatal injury	Non-fatal injury - Incapacitating	Single vehicle crash	Collision with pedestrian	D1:(Inattention)	Wet	Dark - lighted roadway	Clear	HIGHLAND AVE
11/8/2016	5:07 PIV	Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic		Dry	Dark - lighted roadway	Clear	WEST ST / WEBSTER ST
44 /0 /2046	5 40 DN	dw			0.111.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	D1:(No improper driving) D2:(No improper driving)		S. I. P. I.		CENTER AL ALVE
11/8/2016		Not Reported	Unknown	Rear-end	Collision with motor vehicle in traffic		Dry	Dark - lighted roadway	Clear	CENTRAL AVE
11/8/2016		Property damage only (none injured)	No injury	Sideswipe, same direction	Collision with parked motor vehicle		Dry	Dark - lighted roadway	Clear/Cloudy	GREAT PLAIN AVE
11/12/2016		// Property damage only (none injured)	No injury	Single vehicle crash	Collision with tree		Dry	Dark - lighted roadway	Clear	2ND AVE
11/17/2016		Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic		Dry	Dark - lighted roadway	Clear	HIGH ROCK ST
11/27/2016		// Property damage only (none injured)	No injury	Single vehicle crash	Collision with other movable object		Dry	Dark - lighted roadway	Clear	DEDHAM AVE / SOUTH ST
11/28/2016		// Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic		Dry	Dark - lighted roadway	Clear	SCHOOL ST / WARREN ST
12/8/2016		// Non-fatal injury	Non-fatal injury - Non-incapacitating	Single vehicle crash	Collision with pedestrian		Dry	Dark - lighted roadway	Clear	HIGHLAND AVENUE / MELLEN STREET
10/5/2016		Property damage only (none injured)	No injury	Single vehicle crash	Collision with curb		Dry	Dark - lighted roadway	Clear	CHESTNUT STREET
10/20/2016		Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	0, 1 1 0,	Wet	Dark - lighted roadway	Rain/Cloudy	SOUTH STREET / CHESTNUT STREET
12/18/2016	7:55 PM	// Not Reported	Not reported	Angle	Collision with parked motor vehicle	D1:() D2:()	Dry	Dark - lighted roadway	Clear/Other	LASALLE ROAD
11/14/2016						D1:(Unknown) D2:()	Sand, mud. dirt, oil, grave	Dark - lighted roadway	Clear	SOUTH STREET
		Property damage only (none injured)	No injury	Angle	Collision with parked motor vehicle	7 7	, , , , ,	, ,		
5/19/2012	10:22 PM	/ Non-fatal injury	Non-fatal injury - Possible	Sideswipe, same direction	Collision with parked motor vehicle	D1:(Inattention) D2:()	Dry	Dark - roadway not lighted	Clear	CHARLES RIVER STREET
5/19/2012 5/11/2012	10:22 PM 11:13 PM	// Non-fatal injury // Property damage only (none injured)	Non-fatal injury - Possible No injury	Sideswipe, same direction Single vehicle crash	Collision with parked motor vehicle Collision with curb	D1:(Inattention) D2:() D1:(Failure to keep in proper lane or running off road)	Dry Dry	Dark - roadway not lighted Dark - roadway not lighted	Clear Clear	A STREET
5/19/2012 5/11/2012 4/5/2012	10:22 PM 11:13 PM 10:33 PM	M Non-fatal injury Property damage only (none injured) Property damage only (none injured)	Non-fatal injury - Possible No injury No injury	Sideswipe, same direction Single vehicle crash Rear-end	Collision with parked motor vehicle Collision with curb Collision with motor vehicle in traffic	D1:(Inattention) D2:() D1:(Failure to keep in proper lane or running off road) D1:(Driving too fast for conditions) D2:(Exceeded authorized	Dry Dry Dry	Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted	Clear Clear Clear	A STREET NOANETT ROAD / BOWER STREET
5/19/2012 5/11/2012	10:22 PM 11:13 PM 10:33 PM	// Non-fatal injury // Property damage only (none injured)	Non-fatal injury - Possible No injury	Sideswipe, same direction Single vehicle crash	Collision with parked motor vehicle Collision with curb	D1:(Inattention) D2:() D1:(Failure to keep in proper lane or running off road) D1:(Driving too fast for conditions) D2:(Exceeded authorized D1:(Failure to keep in proper lane or running off road)	Dry Dry	Dark - roadway not lighted Dark - roadway not lighted	Clear Clear	A STREET
5/19/2012 5/11/2012 4/5/2012 11/29/2012	10:22 PM 11:13 PM 10:33 PM 6:25 PM	/ Non-fatal injury // Property damage only (none injured) // Property damage only (none injured) // Property damage only (none injured)	Non-fatal injury - Possible No injury No injury No injury	Sideswipe, same direction Single vehicle crash Rear-end Single vehicle crash	Collision with parked motor vehicle Collision with curb Collision with motor vehicle in traffic Collision with other light pole or other	D1:(Inattention) D2:() D1:(Failure to keep in proper lane or running off road) D1:(Driving too fast for conditions) D2:(Exceeded authorized D1:(Failure to keep in proper lane or running off road) D1:(Operating vehicle in erratic, reckless, careless, negligent	Dry Dry Dry	Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted	Clear Clear Clear Clear	A STREET NOANETT ROAD / BOWER STREET YANKEE DIVISION HIGHWAY Rte 95 S
5/19/2012 5/11/2012 4/5/2012 11/29/2012 10/26/2012	10:22 PM 11:13 PM 10:33 PM 6:25 PM	A Non-fatal injury A Property damage only (none injured) A Property damage only (none injured) A Property damage only (none injured) A Unknown	Non-fatal injury - Possible No injury No injury No injury Unknown	Sideswipe, same direction Single vehicle crash Rear-end Single vehicle crash Single vehicle crash	Collision with parked motor vehicle Collision with curb Collision with motor vehicle in traffic Collision with other light pole or other Collision with unknown fixed object	D1:(Inattention) D2:() D1:(Failure to keep in proper lane or running off road) D1:(Driving too fast for conditions) D2:(Exceeded authorized D1:(Failure to keep in proper lane or running off road) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Fatigued/asleep)	Dry Dry Dry Dry Dry Dry	Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted	Clear Clear Clear Clear Clear/Unknown	A STREET  NOANETT ROAD / BOWER STREET  YANKEE DIVISION HIGHWAY Rte 95 S  CHARLES RIVER STREET
5/19/2012 5/11/2012 4/5/2012 11/29/2012 10/26/2012 1/17/2013	10:22 PM 11:13 PM 10:33 PM 6:25 PM 4:25 AM 1:35 AM	Non-fatal injury Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Unknown Non-fatal injury	Non-fatal injury - Possible No injury No injury No injury Unknown Non-fatal injury - Non-incapacitating	Sideswipe, same direction Single vehicle crash Rear-end Single vehicle crash Single vehicle crash Single vehicle crash	Collision with parked motor vehicle Collision with curb Collision with motor vehicle in traffic Collision with other light pole or other  Collision with unknown fixed object Collision with guardrail	D1:(Inattention) D2:() D1:(Failure to keep in proper lane or running off road) D1:(Driving too fast for conditions) D2:(Exceeded authorized D1:(Failure to keep in proper lane or running off road) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Fatigued/asleep) D1:(Operating vehicle in erratic, reckless, careless, negligent	Dry Dry Dry Dry Dry Wet	Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted	Clear Clear Clear Clear Clear Clear Clear Clear/Unknown Cloudy	A STREET  NOANETT ROAD / BOWER STREET  YANKEE DIVISION HIGHWAY Rte 95 S  CHARLES RIVER STREET  YANKEE DIVISION HIGHWAY Rte 95 S
5/19/2012 5/11/2012 4/5/2012 11/29/2012 10/26/2012	10:22 PM 11:13 PM 10:33 PM 6:25 PM 4:25 AM 1:35 AM	A Non-fatal injury A Property damage only (none injured) A Property damage only (none injured) A Property damage only (none injured) A Unknown	Non-fatal injury - Possible No injury No injury No injury Unknown	Sideswipe, same direction Single vehicle crash Rear-end Single vehicle crash Single vehicle crash	Collision with parked motor vehicle Collision with curb Collision with motor vehicle in traffic Collision with other light pole or other Collision with unknown fixed object	D1:(Inattention) D2:() D1:(Failure to keep in proper lane or running off road) D1:(Driving too fast for conditions) D2:(Exceeded authorized D1:(Failure to keep in proper lane or running off road) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Fatigued/asleep) D1:(Operating vehicle in erratic, reckless, careless, negligent D1:(No improper driving)	Dry Dry Dry Dry Dry Dry	Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted	Clear Clear Clear Clear Clear/Unknown	A STREET  NOANETT ROAD / BOWER STREET  YANKEE DIVISION HIGHWAY Rte 95 S  CHARLES RIVER STREET
5/19/2012 5/11/2012 4/5/2012 11/29/2012 10/26/2012 1/17/2013 11/2/2012	10:22 PM 11:13 PM 10:33 PM 6:25 PM 4:25 AM 1:35 AM 6:03 PM	M Non-fatal injury Property damage only (none injured) Property damage only (none injured) Property damage only (none injured) Unknown Non-fatal injury Property damage only (none injured)	Non-fatal injury - Possible No injury No injury No injury Unknown Non-fatal injury - Non-incapacitating No injury	Sideswipe, same direction Single vehicle crash Rear-end Single vehicle crash Single vehicle crash Single vehicle crash Single vehicle crash	Collision with parked motor vehicle Collision with curb Collision with motor vehicle in traffic Collision with other light pole or other  Collision with unknown fixed object Collision with guardrail Collision with pedalcycle (bicycle, tricycle,	D1:(Inattention) D2:() D1:(Failure to keep in proper lane or running off road) D1:(Driving too fast for conditions) D2:(Exceeded authorized D1:(Failure to keep in proper lane or running off road) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Fatigued/asleep) D1:(Operating vehicle in erratic, reckless, careless, negligent D1:(No improper driving) D1:(Exceeded authorized speed limit),(Operating vehicle in	Dry Dry Dry Dry Dry Wet	Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted	Clear Clear Clear Clear Clear Clear Clear Clear/ Clear/ Cloudy Snow	A STREET NOANETT ROAD / BOWER STREET YANKEE DIVISION HIGHWAY Rte 95 S CHARLES RIVER STREET YANKEE DIVISION HIGHWAY Rte 95 S WARREN STREET
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5/19/2012 5/11/2012 4/5/2012 11/29/2012 10/26/2012 1/17/2013 11/2/2012 3/11/2012 2/9/2012 10/17/2012 7/30/2012 11/19/2012 3/19/2013	10:22 PM 11:13 PM 10:33 PM 6:25 PM 4:25 AM 1:35 AM 6:03 PM 9:48 AM 6:14 PM 6:56 PM 9:58 PM	A Non-fatal injury A Property damage only (none injured) A Property damage only (none injured) A Property damage only (none injured) A Unknown A Non-fatal injury A Property damage only (none injured) A Non-fatal injury A Property damage only (none injured) A Non-fatal injury A Property damage only (none injured) A Non-fatal injury A Property damage only (none injured) A Not Reported A Property damage only (none injured) A Property damage only (none injured) A Property damage only (none injured)	Non-fatal injury - Possible No injury No injury No injury Unknown Non-fatal injury - Non-incapacitating No injury No injury Non-fatal injury - Non-incapacitating No injury Non-fatal injury - Non-incapacitating No injury Not reported No injury	Sideswipe, same direction Single vehicle crash Rear-end Single vehicle crash Single vehicle crash Single vehicle crash Single vehicle crash Single vehicle crash Single vehicle crash Single vehicle crash Single vehicle crash Single vehicle crash Rear-end Rear-end Angle Single vehicle crash	Collision with parked motor vehicle Collision with curb Collision with motor vehicle in traffic Collision with other light pole or other  Collision with unknown fixed object Collision with guardrail Collision with pedalcycle (bicycle, tricycle,  Collision with other movable object Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic Collision with motor vehicle in traffic	D1:(Inattention) D2:() D1:(Failure to keep in proper lane or running off road) D1:(Driving too fast for conditions) D2:(Exceeded authorized D1:(Failure to keep in proper lane or running off road) D1:(Operating vehicle in erratic, reckless, careless, negligent or aggressive manner),(Fatigued/asleep) D1:(Operating vehicle in erratic, reckless, careless, negligent D1:(No improper driving) D1:(Exceeded authorized speed limit),(Operating vehicle in erratic, reckless, careless, negligent O1:(No improper driving) D1:(No improper driving) D1:(No improper driving) D1:(No improper driving) D2:(No improper driving) D1:(Failure to vield right of way) D2:(No improper driving) D1:(Failure to keep in proper lane or running off	Dry Dry Dry Dry Dry Wet Ice Dry Dry Dry Dry Dry Dry Dry Dry Dry Dry	Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted Dark - roadway not lighted	Clear Clear Clear Clear Clear Clear/Unknown Cloudy Snow Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Clear Clear/Cloudy Snow/Sleet, hail (freezing rain or drizzle)	A STREET  NOANETT ROAD / BOWER STREET  YANKEE DIVISION HIGHWAY Rte 95 S  CHARLES RIVER STREET  YANKEE DIVISION HIGHWAY Rte 95 S  WARREN STREET  SOUTH STREET  KENDRICK STREET  SOUTH STREET  HARRIS AVENUE  HIGHLAND AVENUE / HUNNEWELL STREET  GREENDALE
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April   Apri							- 10.6			
1.00		Crash Time Crash Severity	Maximum Injury Severity Reported	Manner of Collision	First Harmful Event	Driver Contributing Codes	Road Surface	Ambient Light	Weather Condition	Roadway
A Company   A Co						<del>                                     </del>	<u> </u>			
Column   C								<u> </u>		
Column						1	Dry			<del>                                     </del>
Column	0,22,2011	112 17 and 11 opency during comy (none injured)	ite injury	onighe vernole crash	compon with thee	21/1 diligued/datecp/	J. 1	Dark Todaway not ngined		THE STATE OF THE S
ACCOUNTS   Control of Control o	1/11/2014	2:26 AM Non-fatal injury	Non-fatal injury - Possible	Single vehicle crash	Collision with utility pole	D1:(Unknown)	Ice	Dark - roadway not lighted		NEHIODEN ST
Auto-	1/20/2014		No injury	Sideswipe, same direction	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Inattention),(Distracted)	Dry	<u> </u>		GREAT PLAIN AVE / / GLENDOON RD
Column										
Column   C		4:58 AM Unknown	Unknown	Single vehicle crash	Collision with utility pole	D1:(Unknown)	Slush	Dark - roadway not lighted	Sleet, hail (freezing rain or drizzle)/Cloudy	SOUTH ST / CANTERBURY LN
ACCORD   1.500   1.5	4/16/2014	10:50 AM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Failed to yield right of way) D2:(No improper driving)	Dry	Dark - roadway not lighted	Clear/Clear	CENTRAL AVE / HAMPTON AVE
April   State   April   State   April   Apri										RAMP-HIGHLAND AVE SB TO RTS 95 SB/128
State			Non-fatal injury - Possible		Collision with motor vehicle in traffic			<del> </del>	Cicui	SB
\$1.00   \$1.0	5/20/2014	3:14 PM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic		Dry	Dark - roadway not lighted	Clear/Clear	CHARLES RIVER STREET / GROVE ST
Column										
Mile   Mile				- ' '						·
The content of the										
No. 0.000   10.000			, ,		•	7 ( 1 1 9)				
According   1-12   Company company of your plane   1-12   Company company						7		· · ·	,	·
\$\partial content of the con								· · · · · ·		
100   100							Dny	<del> </del>		
1.00   1.00				-			Dry			
2018	1/3/2013	5.55 : roperty duringe only (none injured)		Sidestripe, sume uncetton	Sometiment and the second of t		1	rodaway not lighted	2.2017 0.001	S. S. S. S. S. S. S. S. S. S. S. S. S. S
1970   1970	2/9/2015	7:37 AM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	, , , , ,	Snow	Dark - roadway not lighted	Snow/Snow	GREENDALE AVE. / GROSVENOR RD.
March   Marc										
Part   Part	5, 5, 2020	The state of the s	, ,	5 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -				, saray mac ngineed		
\$10,000   \$10,	3/26/2015	8:53 PM Property damage only (none injured)	No injury	Sideswipe, same direction	Collision with motor vehicle in traffic		Wet	Dark - roadway not lighted	Rain/Fog, smog, smoke	HIGHLAND AVE / WEST ST
1975   1976										·
2007   1.00						, ,		, ,		·
Column   C	3/16/2016	7:32 PM Property damage only (none injured)	No injury	Sideswipe, opposite direction	Collision with motor vehicle in traffic		Dry	Dark - roadway not lighted	Clear	
1-9/2706   1-12   1-1	10/31/2015	12:14 AM Not Reported			Collision with motor vehicle in traffic		Dry		Clear	+
1,000	3/31/2016	9:19 PM Non-fatal injury	Non-fatal injury - Non-incapacitating	Rear-end	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Followed too closely)	Dry	Dark - roadway not lighted	Clear	YANKEE DIVISION HIGHWAY Rte 95 N
1,77,706   1,51 principal properties of the principal part of th	2/7/2016	5:52 PM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Unknown) D2:(No improper driving)	Dry	Dark - roadway not lighted	Clear	2ND AVE
March   Marc				Sideswipe, opposite direction	Collision with motor vehicle in traffic		Dry	Dark - roadway not lighted		
1421206   1421	1/7/2016	5:51 PM Unknown	Unknown	Single vehicle crash	Collision with utility pole	D1:(Unknown)	Dry	Dark - roadway not lighted	Clear/Unknown	
1777/7071   777/7071										
\$4,000									·	· ·
1,10 Per Programment of Programmen								<del>                                     </del>		
\$2,000   \$							<u> </u>		·	
\$1,000   \$	6/9/2016	11:00 PM Property damage only (none injured)	No injury	Sideswipe, same direction	Collision with motor venicle in traffic	D1:() D2:()	Dry	Dark - roadway not lighted	Clear	
Apt   116   Colonia distallayer   Colonia with quantital   Colonia wi	9/2/2016	11:22 DM Non fotal injune	Non fatal injury. Non inconscitating	Single vehicle grash	Callisian with work zone maintenance equipment	D1/(Failure to keep in proper lane or rupping off read)	Dev	Dark randway not lighted	Clear	RAMP-RTS 95 NB/128 NB TO HIGHLAND AVE
\$41,7281   1,531 Polycon full liquy	8/3/2016	11.23 PINI NOII-Iatai Ilijury	Non-ratar injury - Non-incapacitating	Single vehicle crash	Collision with work zone maintenance equipment	D1.(Failure to keep in proper lane or running on road)	Diy	Dark - roadway not lighted	Clear	PAMP BTS OF SB/129 SB TO HIGH AND AVE
Company   Comp	8/11/2016	11:05 PM Non-fatal injury	Non-fatal injuny - Incapacitating	Single vehicle crash	Collision with guardrail	D1:(Driving too fast for conditions)	Dny	Dark - roadway not lighted	Clear	CR
60,000   C.5.10 MD country (secure injunct)   More processes and proce							Dry	<del> </del>		CENTRAL AVE
1977/2013   E.15 AM Proxy dramps only (one Syure)   Non-tigal Yary   Non-tigal Yary   Supply white 12x1   Californ with bed bins rarie   D.15 Parket Proxy only dramps only (one Syure)   Non-tigal Yary   Supply white 12x1   Californ with bed bins rarie   D.15 Parket Proxy only dramp only (one Syure)   Non-tigal Yary   Supply white 12x1   Californ with bed bins rarie   D.15 Parket Proxy only dramp only (one Syure)   Non-tigal Yary   Supply white 12x1   Californ with bed bins rarie   D.15 Parket Proxy only dramp only (one Syure)   Non-tigal Yary   Supply white 12x1   Californ with bed bins rarie   D.15 Parket Proxy only dramp only (one Syure)   Non-tigal Yary   Supply white 12x1   Californ with bed bins rarie   D.15 Parket Proxy only dramp only (one Syure)   Non-tigal Yary   Supply white 12x1   Californ with bed bins rarie   Supply white 12x1   Californ with bed bins rarie   Supply white 12x1   Californ with bed on Californ with bed on Californ with bed on Californ with bed on Parket Proxy only (one Syure)   Supply white 12x1   Californ with bed on Californ with bed on Californ with bed on Parket Proxy only (one Syure)   Supply white 12x1   Californ with bed on Parket Proxy only (one Syure)   Supply white 12x1   Californ with bed on Parket Proxy only (one Syure)   Supply white 12x1   Californ with bed on Parket Proxy only (one Syure)   Supply white 12x1   Californ with bed on Parket Proxy only (one Syure)   Supply white 12x1   Californ with bed of vince in terms of Syure Proxy only (one Syure)   Supply white 12x1   Californ with bed of vince in terms of Syure Proxy only (one Syure)   Supply white 12x1   Californ with bed on Parket Proxy only (one Syure)   Supply white 12x1   Californ with bed on Parket Proxy only (one Syure)   Supply white 12x1   Californ with bed on Parket Proxy only (one Syure)   Supply white 12x1   Californ with bed on Parket Proxy only (one Syure)   Supply white 12x1   Californ with bed on Parket Proxy only (one Syure)   Supply white 12x1   Californ with bed on Parket Proxy only (one Syure)										
127/2015   13 AM Property design only rouse recovering of the property of th										
1247-0976   124 AV Disc Reported   Not recommed   Online with default   Online with the control with motor within in mile   Online with motor within					·				-	·
1777/07/08   1.29 Aut Bloom fast stugy								, ,		
1197/7978   1977 Procured procures provided in procured by Control programs   1977 Procured			Non-fatal injury - Possible	Single vehicle crash	Collision with tree		Ice		•	CHARLES RIVER ST
66/7/202   1.15 AM   Property damage only (note injured)   No injury   Not fast injury - Not inspectating   Not injury - Not injury - Not inspectating   Not injury - Not inju	11/17/2016	6:27 PM Property damage only (none injured)			Collision with motor vehicle in traffic	1	Dry	<del>                                     </del>	Clear	GREAT PLAIN AVE
69/2012   1.11 May Property samage only (none higher)   No Injury   Non incapacitating of Indian with particle crash   Collision with motor vehicle in traffic   Collision with motor vehicle	10/8/2016	7:11 PM Non-fatal injury	Non-fatal injury - Possible	Head-on	Collision with motor vehicle in traffic	D1:(Failure to keep in proper lane or running off road)	Dry	Dark - roadway not lighted	Clear	GREAT PLAIN AVENUE
64/7012   8.11 M/l (non-first in jury   Non-first injury   Non-first						D1:(Disregarded traffic signs, signals, road markings),(Failure		Dark - unknown roadway		OAK STREET / MARKED TREE ROAD / PERRY
1/4/2013   3.11 MR   Non-fast Injury   Non-fas			No injury	Single vehicle crash	Collision with unknown fixed object	to keep in proper lane or running off road)	Dry	lighting		
8.18/2013 32.19 M Non-fatal injury — Non-incapacitating Angle — Collision with motor vehicle in traffic — Displayment of your purpose of your progress of your			Non-fatal injury - Non-incapacitating	Unknown	Collision with parked motor vehicle	D1:(No improper driving) D2:(No improper driving)	Dry	Dark - unknown roadway	Cloudy/Rain	
1/13/2031   3.22 PM PM   Property damage only (none injured)   No injury   Single-vehicle crash   Collision with turth pole   Collision with turthy   Obj. (Distracted)   Distracted   Di			· · ·					· · · · · · · · · · · · · · · · · · ·		
1/55/03 10:99 AM Non-fatal Injury - Non-fatal Injur							Dry			·
1/25/2013   4.19 PM   Property damage only frome injured   No injury   Some event of collision with utility pole   erralic, reckless, careless, negligent or aggressive manner   Oy Ontroversive to the injury   Some event of Collision with motor evelucie in traffic   D.11(Inhinown)   Oy Ontroversive	1/18/2013	3:22 PM Property damage only (none injured)	No injury	Single vehicle crash	Collision with curb	,	Dry	· · · · · · · · · · · · · · · · · · ·	Clear/Cloudy	ROSEMARY STREET
1/31/2012 8.0 PM Unknown Unknown Single vehicle crash Collision with motor vehicle in traffic 1/31/2012 9.59 AM Property damage only (none injured) No injury Rear-end Collision with motor vehicle in traffic 1/31/2012 12.10 PM Property damage only (none injured) No injury Rear-end Collision with motor vehicle in traffic 1/31/2012 12.10 PM Property damage only (none injured) No injury Single vehicle crash Collision with motor vehicle in traffic 1/31/2012 12.10 PM Property damage only (none injured) No injury Single vehicle crash Collision with motor vehicle in traffic 1/31/2012 12.10 PM Property damage only (none injured) No injury Single vehicle crash Collision with motor vehicle in traffic 1/31/2012 12.10 PM Property damage only (none injured) No injury Single vehicle crash Collision with motor vehicle in traffic 1/31/2012 12.10 PM Property damage only (none injured) No injury Single vehicle crash Collision with motor vehicle in traffic 1/31/2012 12.11 PM (Inknown Collision with motor vehicle in traffic 1/31/2012 12.11 PM (Inknown Collision with motor vehicle in traffic 1/31/2012 12.11 PM (Inknown Collision with motor vehicle in traffic 1/31/2012 12.11 PM (Inknown Collision with motor vehicle in traffic 1/31/2012 12.12 PM (Inknown Collision with motor vehicle in traffic 1/31/2012 12.12 PM (Inknown Collision with motor vehicle in traffic 1/31/2012 12.12 PM (Inknown Collision with motor vehicle in traffic 1/31/2012 12.12 PM (Inknown Collision with motor vehicle in traffic 1/31/2012 12.12 PM (Inknown Collision with motor vehicle in traffic 1/31/2012 12.12 PM (Inknown Collision with motor vehicle in traffic 1/31/2012 12.12 PM (Inknown Collision with motor vehicle 1/31/2012 12.12 PM (Inknown Collision with motor vehicle 1/31/2012 12.12 PM (Inknown Collision with motor vehicle 1/31/2012 12.12 PM (Inknown Collision with motor vehicle 1/31/2012 12.12 PM (Inknown Collision with motor vehicle 1/31/2012 12.12 PM (Inknown Collision with motor vehicle 1/31/2012 12.12 PM (Inknown Collision with motor vehicle 1/31/2012 12.12	1/25/2012	10:00 ANA Non-februini	Name for the latine. Name to a second second	Simple controls and t	Callinian with while and			1	S/O4h	LUCULAND AVE
3/6/2013 8.00 PM Unknown Unknown Single vehicle crash Collision with tree D1/Unknown D1/(Instention) D2/(No improper of wingle D4/(No improper diving) D4/(Instention) D2/(No improper diving) D4/(Instention)			, , , ,		· · ·	erratic, reckiess, careless, negligent or aggressive manner)		1 0		
3/3/2013 9-59 AM Property damage only (none injured) No injury Rear-end Collision with motor vehicle in traffic 11/9/2013 12-10 PM Property damage only (none injured) No injury Rear-end Collision with motor vehicle in traffic 11/9/2013 12-10 PM Property damage only (none injured) No injury Rear-end Collision with motor vehicle in traffic 11/9/2013 8-13 AM Non-fatal injury Non-fatal injury Non-fatal injury Non-incapacitating Rear-end Collision with motor vehicle in traffic 11/9/2013 8-13 AM Non-fatal injury Non-fatal injury Non-incapacitating Rear-end Collision with motor vehicle in traffic 11/9/2013 8-13 AM Non-fatal injury Non-incapacitating Rear-end Collision with motor vehicle in traffic 11/9/2013 8-13 AM Non-fatal injury Non-incapacitating Rear-end Collision with motor vehicle in traffic 11/9/2013 8-13 AM Non-fatal injury Non-incapacitating Rear-end Collision with motor vehicle in traffic 11/9/2014 12-11 PM Unknown Unknown Rear-end Collision with motor vehicle in traffic 11/9/2014 12-11 PM Unknown Non-incapacitating Non						D1:/Unknown)				
3/3/2013   9:59 M Property damage only (none injured)   No injury   Rear-to-rear   Collision with motor vehicle in traffic   D1:1/9b III/proper driving)   Dry   Dark - unknown roadway   Clear   GRENDALE AVE	3/0/2013	6.00 PIVI OTIKITOWIT	UIMIUWII	Single venicle crash	Conision with tree		vvel		naiii/Cloudy	/ ELLICUTI STREET
12/20/2013 12:14 MP roperty damage only (none injured) No injury Single vehicle crash Collision with mater vehicle in traffic D1:(No improper driving) Dy Dark - unknown roadway Clear GREMDALE AVE (1/20/2013) 12:44 MP roperty damage only (none injured) No injury Single vehicle crash Collision with mater vehicle in traffic D1:(No improper driving) D2:(Followed too Dry Dark - unknown roadway Clear / Clear	3/13/2012	9:59 AM Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic		Dry		Clear/Cloudy	HIGHLAND AVE
10/8/2013 12:4.1 AM Property damage only (none injured) No injury Single vehicle crash Collision with animal - deer 11/8/2013 8:13 AM Non-fatal injury - Non-incapacitating Rear-end Collision with motor vehicle in traffic D1:(No improper driving) D2:(Followed too Dry Dark - unknown roadway Clear/Clear SOUTHST ST V2. (Part V2.) (P										
11/8/2013 8:13 AM Non-fatal injury Non-incapacitating Rear-end Collision with motor vehicle in traffic D1:(No improper driving) D2:(Followed too Dry Dark - unknown roadway Cloud/Cloud/y FIRST AVE 2/16/2014 12:11 PM (Inknown Unknown Near-end Collision with motor vehicle in traffic D1:(No improper driving) D2:(No improper driving) D2:(No improper driving) D2:(No improper driving) Snow Dark - unknown roadway Cloud/y FIRST AVE D1:(D1:(D1:(D1:(D1:(D1:(D1:(D1:(D1:(D1:(		1 1 0 11 1				, , , , , , , , , , , , ,				
12/20/2013 5:10 AM Property damage only (none injured) No injury Single vehicle crash Collision with motor vehicle in traffic D1:(No improper driving) Ice Dark - unknown roadway Cloudy/Cloudy FIRST AVE Collision with motor vehicle in traffic D1:(Political right of way) D2:(No improper driving) Some Dark - unknown roadway Some Mark SAPENUE/COULTON PARK OLD Dark - unknown roadway Some Mark SAPENUE/COULTON PARK OLD Dark - unknown roadway Some Mark SAPENUE/COULTON PARK OLD Dark - unknown roadway Some Mark SAPENUE/COULTON PARK OLD Dark - unknown roadway Some Mark SAPENUE/COULTON PARK OLD Dark - unknown roadway Some Mark SAPENUE/COULTON PARK OLD Dark - unknown roadway Some Mark SAPENUE/COULTON PARK OLD Dark - unknown roadway Some Dark - unknown roadway S								· · · · · · · · · · · · · · · · · · ·		
2/16/2014 12:11 PM Unknown Unknown Rear-end Collision with other D1:(Driving too fast for conditions) D2:(No improper driving) Snow Dark - unknown roadway Snow/Blowing sand, snow HARRIS AVENUE / COULTON PARK 6/15/2013 10:58 PM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic D1:(Failed to yield right of way) D2:(No improper driving) Dry Dark - unknown roadway Clear (Clear HUNTING ROAD / SCHEM ROAD O D1:(Other improper addiving) Dry Dark - unknown roadway Clear (Clear HUNTING ROAD / SCHEM ROAD O D1:(Other improper addiving) Dry Dark - unknown roadway Clear (Clear HUNTING ROAD / SCHEM ROAD O D1:(Other improper addiving) D2:(No improper driving) D2		7 /								
6/15/2013 10:58 PM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic D1:(failed to yield right of way) D2:(No improper driving) Dry Dark - unknown roadway Clear/Clear HUNTING ROAD / SACHEM ROAD 10/26/2014 12:03 PM Property damage only (none injured) No injury Rear-end Collision with parked motor vehicle D1:(No improper driving) Dry Dark - unknown roadway Cloudy HIGHLAND AVE Cloudy			7 7				Snow			
8/22/2014 12:03 PM Property damage only (none injured) No injury Head-on Collision with other D1:(Other improper action) Dry Dark - unknown roadway Cloudy HIGHLAND AVE 10/26/2014 9:23 PM Property damage only (none injured) No injury Rear-end Collision with parked motor vehicle 11/28/2014 4:02 PM Property damage only (none injured) No injury Rear-end Collision with parked motor vehicle 11/28/2015 S:50 PM Property damage only (none injured) No injury Rear-end Collision with motor vehicle in traffic 2/4/2015 T:58 AM Property damage only (none injured) No injury Rear-end Collision with motor vehicle in traffic 12/26/2015 T:58 AM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic 12/26/2015 4:51 PM Property damage only (none injured) No injury Angle Collision with parked motor vehicle 12/26/2015 S:28 PM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic 12/26/2015 4:51 PM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic 12/26/2015 4:51 PM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic 12/26/2015 5:28 PM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic 12/26/2015 5:28 PM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic 2/1/2012 6:01 AM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic 2/1/2012 6:01 AM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic 12.(No improper driving) D2:(No improper								· · · · · · · · · · · · · · · · · · ·		·
11/28/2014 4:02 PM Property damage only (none injured) No injury Rear-end Collision with motor vehicle D1:(Inattention) D2:(No improper driving) D2:(No improper driving) D3:(No improper driving) D		12:03 PM Property damage only (none injured)	No injury		Collision with other		Dry	Dark - unknown roadway	Cloudy	HIGHLAND AVE
2/4/2015 5:50 PM Property damage only (none injured) No injury Rear-end Collision with motor vehicle in traffic improper driving) D2:(No improper driving) D4:(No improper	10/26/2014	9:23 PM Property damage only (none injured)	No injury	Rear-end	Collision with parked motor vehicle	D1:(No improper driving) D2:()	Dry	Dark - unknown roadway	Clear	CHESTNUT ST
2/4/2015 5:50 PM Property damage only (none injured) No injury Rear-end Collision with motor vehicle in traffic improper driving) D4:(No improper	11/28/2014	4:02 PM Property damage only (none injured)		Rear-end	Collision with parked motor vehicle		Dry	Dark - unknown roadway	Cloudy	THIRD AVENUE
2/26/2015 7:58 AM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic D1:(Failed to yield right of way) D2:(No improper driving) Sand, mud, dirt, oil, gravel Dark - unknown roadway Clear/Clear SCHOOL ST / GRANT ST 12/8/2015 4:51 PM Property damage only (none injured) No injury Angle Collision with parked motor vehicle D1:(Unknown) D2:() Other Dark - unknown roadway Cloudy WEBSTER ST 12/25/2016 5:28 PM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic D1:(Disregarded traffic signs, signals, road markings) D2:(No Dry Dark - unknown roadway Clear GREAT PLAIN AVE 12/11/2012 6:15 AM Property damage only (none injured) No injury Rear-end Collision with motor vehicle in traffic D1:(Inattention) D2:(No improper driving) Wet Dawn Cloudy/Snow HIGHLAND AVENUE / HUNTING ROAD GOULD STREET / T V PLACE						D1:(No improper driving) D2:(No improper driving) D3:(No		Dark - unknown roadway		
12/8/2015 4:51 PM Property damage only (none injured) No injury Angle Collision with parked motor vehicle D1:(Unknown) D2:() Other Dark - unknown roadway Cloudy WEBSTER ST  12/25/2016 5:28 PM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic D1:(Disregarded traffic signs, signals, road markings) D2:(No Dry Dark - unknown roadway Clear GREAT PLAIN AVE  2/11/2012 6:15 AM Property damage only (none injured) No injury Rear-end Collision with motor vehicle in traffic D1:(Inattention) D2:(No improper driving) Wet Dawn Cloudy/Snow HIGHLAND AVENUE / HUNTING ROAD  3/21/2012 6:07 AM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic D1:(No improper driving) D2:(Failed to yield right of way) Dry Dawn Clear GOULD STREET / T V PLACE	2/4/2015	5:50 PM Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	improper driving) D4:(No improper driving)	Wet	lighting	Clear/Clear	KENDRICK ST / GREENDALE AVE.
12/25/2016 5:28 PM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic D1:(Disregarded traffic signs, signals, road markings) D2:(No Dry Dark - unknown roadway Clear GREAT PLAIN AVE 2/11/2012 6:15 AM Property damage only (none injured) No injury Rear-end Collision with motor vehicle in traffic D1:(Inattention) D2:(No improper driving) Wet Dawn Cloudy/Snow HIGHLAND AVENUE / HUNTING ROAD 3/21/2012 6:07 AM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic D1:(No improper driving) D2:(Failed to yield right of way) Dry Dawn Clear GOULD STREET / T V PLACE			No injury		Collision with motor vehicle in traffic		Sand, mud, dirt, oil, grave	<u> </u>		
2/11/2012 6:15 AM Property damage only (none injured) No injury Rear-end Collision with motor vehicle in traffic D1:(Inattention) D2:(No improper driving) Wet Dawn Cloudy/Snow HIGHLAND AVENUE / HUNTING ROAD 3/21/2012 6:07 AM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic D1:(No improper driving) D2:(Failed to yield right of way) Dry Dawn Clear GOULD STREET / T V PLACE						7 0		· · · · · · · · · · · · · · · · · · ·		
3/21/2012 6:07 AM Property damage only (none injured) No injury Angle Collision with motor vehicle in traffic D1:(No improper driving) D2:(Failed to yield right of way) Dry Dawn Clear GOULD STREET / T V PLACE										-
			7 7			, , , , , , , , , , , , , , , , , , , ,		-		·
1/16/2013 6:40 AM Non-fatal injury Non-fatal injury - Possible Angle Collision with motor vehicle in traffic D1:(Unknown) D2:(No improper driving) Ice Dawn Snow HILLSIDE AVENUE							· ·			·
	1/16/2013	6:40 AM Non-tatal injury	Non-tatal injury - Possible	Angle	Collision with motor vehicle in traffic	D1:(Unknown) D2:(No improper driving)	Ice	Dawn	Snow	HILLSIDE AVENUE

						- 10.6			
Crash Date 4/24/2013	Crash Time Crash Severity  4:35 PM Property damage only (none injured)	Maximum Injury Severity Reported	Manner of Collision	First Harmful Event Collision with motor vehicle in traffic	Driver Contributing Codes	Road Surface Dry	Ambient Light Dawn	Weather Condition Clear/Clear	Roadway WASHINGTON AVE
7/30/2013	8:23 PM Property damage only (none injured)	No injury No injury	Angle Sideswipe, same direction	Collision with motor vehicle in traffic	7 0 77 1 1 1 67	Dry	Dawn	Clear	HIGHLAND AVENUE / MELLEN STREET
8/10/2013	12:00 PM Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	D1:(Followed too closely) D2:(No improper driving)	Dry	Dawn	Clear	HIGHLAND AVE / ROSEMARY ST
0/10/2015	12100 FM Froperty duringe only (none injured)	into myany	ricar cria	Compon with motor vernor in traine	D1:(No improper driving) D2:(No improper driving) D3:(No	5.7	John	Cicai	THE HE THE THE SELLM WIT ST
2/11/2013	6:06 AM Non-fatal injury	Non-fatal injury - Possible	Angle	Collision with guardrail	improper driving) D4:(No improper driving) D5:(No improper	Snow	Dawn	Snow	YANKEE DIVISION HIGHWAY Rte 95 S
	, ,				D1:(Swerving or avoiding due to wind, slippery surface,				
1/16/2013	7:01 AM Property damage only (none injured)	No injury	Sideswipe, same direction	Collision with parked motor vehicle	vehicle, object, non-motorist in roadway, etc) D2:(No	Snow	Dawn	Snow	HUNNEWELL STREET
3/3/2013	7:37 PM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Failed to yield right of way) D2:(No improper driving)	Dry	Dawn	Clear	GREAT PLAIN AVENUE / FAIR OAKS PARK
5/22/2013	5:05 AM Property damage only (none injured)	No injury	Single vehicle crash	Collision with tree	D1:(Exceeded authorized speed limit)	Wet	Dawn	Rain	YANKEE DIVISION HIGHWAY Rte 128 S
4/18/2013	4:35 PM Property damage only (none injured)	No injury	Head-on	Collision with motor vehicle in traffic	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Dry	Dawn	Cloudy	WEXFORD STREET
5/13/2013	1:40 PM Non-fatal injury	Non-fatal injury - Possible	Angle	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Disregarded traffic signs,	Dry	Dawn	Clear/Clear	SCHOOL ST / LINCOLN ST
7/8/2013	10:02 AM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Failed to yield right of way) D2:(No improper driving)	Dry	Dawn	Clear/Clear	CENTRAL AVE / FOREST STREET
8/3/2013	7:13 AM Non-fatal injury	Non-fatal injury - Possible	Single vehicle crash	Collision with tree	D1:(Illness)	Dry	Dawn	Clear	WEST STREET
8/9/2013	6:01 AM Non-fatal injury	Non-fatal injury - Possible	Angle	Collision with motor vehicle in traffic	1	Dry	Dawn	Cloudy	GREAT PLAIN AVENUE / CHAPEL STREET
9/23/2013 9/23/2013	6:14 AM Property damage only (none injured) 7:35 AM Property damage only (none injured)	No injury No injury	Single vehicle crash Single vehicle crash	Collision with animal - deer  Collision with utility pole	D1:(No improper driving) D1:(Glare)	Dry	Dawn Dawn	Clear	CENTRAL AVENUE  GAGE STREET
9/23/2013	7:35 AM Property damage only (none injured)	No injury	Single venicle crash	Collision with utility pole	DI:(Glare)	Dry	Dawn	Clear	GAGE STREET
9/30/2013	7:38 AM Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	D1:(Followed too closely) D2:(No improper driving)	Dry	Dawn	Clear/Clear	GREAT PLAIN AVENUE / GREENWOOD AVE
9/30/2013	7.58 AM Property damage only (none injured)	No injury	Real-ella	Collision with motor vehicle in traffic	D1:(Pollowed too closery) D2:(No improper driving) D1:(Disregarded traffic signs, signals, road markings),(Failed	Dry	Dawii	Clear/Clear	GREAT PLAIN AVENUE / GREENWOOD AVE
10/17/2013	5:29 AM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	to yield right of way) D2:(No improper driving)	Dry	Dawn	Clear/Clear	WEST STREET / HILLSIDE AVENUE
10/17/2013	12:00 PM Property damage only (none injured)	No injury	Angle Angle	Collision with motor vehicle in traffic		Dry	Dawn	Clear/Clear	HIGHLAND AVE
11/5/2013	2:38 PM Property damage only (none injured)	No injury	Sideswipe, same direction	Collision with parked motor vehicle	D1:(Inattention) D2:(No improper driving)	Dry	Dawn	Clear/Clear	TV PLACE
11/3/2013	2.55		Successive, same uncerton	Sometiment particle motor verticle	D1:(No improper driving) D2:(Swerving or avoiding due to	1		5.54.7 5.54.	
11/7/2013	4:46 PM Property damage only (none injured)	No injury	Sideswipe, opposite direction	Collision with motor vehicle in traffic	wind, slippery surface, vehicle, object, non-motorist in	Wet	Dawn	Rain/Cloudy	SOUTH ST
6/26/2014	6:00 AM Property damage only (none injured)	No injury	Single vehicle crash	Collision with motor vehicle in traffic		Wet	Dawn	Rain	YANKEE DIVISION HIGHWAY Rte 95 S
5/17/2014	5:51 AM Property damage only (none injured)	No injury	Single vehicle crash	Collision with utility pole	D1:(No improper driving)	Wet	Dawn	Rain/Cloudy	GREEN STREET / NORMAN ROAD
5/26/2014	5:11 PM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	, , , , ,	Dry	Dawn	Clear/Clear	CENTRAL AVENUE / WEST STREET
3/19/2014	8:30 AM Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	D1:(Unknown) D2:(No improper driving)	Dry	Dawn	Cloudy/Cloudy	HIGHLAND AV / MARK LEE RD
, , ,	1 7 2022 11 2 2 32 201				D1:(Disregarded traffic signs, signals, road markings),(Failed				
9/19/2014	11:27 AM Non-fatal injury	Non-fatal injury - Possible	Angle	Collision with motor vehicle in traffic	to yield right of way) D2:(No improper driving)	Dry	Dawn	Clear/Clear	WEST STREET / HILLSIDE AVENUE
11/13/2014	7:07 PM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic		Dry	Dawn	Clear/Clear	GREAT PLAIN AVE / WEBSTER STREET
4/6/2015	6:13 AM Non-fatal injury	Non-fatal injury - Possible	Rear-end	Collision with motor vehicle in traffic	D1:(Inattention) D2:(Followed too closely) D3:(No improper	Dry	Dawn	Clear	YANKEE DIVISION HIGHWAY Rte 128 N
3/3/2015	5:49 AM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Disregarded traffic signs,	Dry	Dawn	Cloudy/Cloudy	CENTRAL AVE / CHARLES RIVER ST
3/6/2015	8:30 AM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Failed to yield right of way) D2:(No improper driving)	Dry	Dawn	Clear/Clear	GREAT PLAIN AVENUE / NEHOIDEN ST
4/9/2015	8:34 AM Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Followed too closely)	Dry	Dawn	Clear/Clear	NORTH HILL AVE / GREAT PLAIN AVE
5/20/2015	12:22 PM Property damage only (none injured)	No injury	Sideswipe, same direction	Collision with parked motor vehicle	D1:(Other improper action) D2:(No improper driving)	Dry	Dawn	Clear	HIGHLAND AVE
7/6/2015	7:23 PM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Failed to yield right of way) D2:(No improper driving)	Dry	Dawn	Clear	WEST ST / WEBSTER ST
9/4/2015	3:30 PM Property damage only (none injured)	No injury	Sideswipe, opposite direction	Collision with parked motor vehicle	D1:(No improper driving)	Dry	Dawn	Clear	HIGHLAND AVE
11/8/2015	7:02 AM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	7 7 7	Dry	Dawn	Clear	GREAT PLAIN AVE / WEBSTER ST
6/22/2016	4:40 AM Unknown	Unknown	Single vehicle crash	Collision with bridge	0,0,0	Dry	Dawn	Clear	DEDHAM AVE
9/22/2016	6:52 AM Non-fatal injury	Non-fatal injury - Incapacitating	Angle	Collision with pedalcycle (bicycle, tricycle,	D1:(Unknown)	Dry	Dawn	Clear/Unknown	WARREN ST / SCHOOL ST
10/27/2016	7:02 AM Property damage only (none injured)	No injury	Single vehicle crash	Collision with animal - deer	( ) P - P - O	Dry	Dawn	Cloudy	CHARLES RIVER ST
6/13/2012	8:23 PM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	1 1 1 7	Wet	Dusk	Cloudy	SECOND AVENUE
1/13/2012	5:09 PM Non-fatal injury	Non-fatal injury - Possible	Angle	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(No improper driving)	Dry	Dusk	Clear	HIGHLAND AVENUE / WEXFORD STREET
5/26/2012	8:09 PM Not Reported	Not reported	Head-on	Collision with motor vehicle in traffic		Dry	Dusk	Cloudy	HUNTING ROAD / KENDRICK STREET
11/6/2012	3:54 PM Non-fatal injury	Non-fatal injury - Possible	Angle	Collision with motor vehicle in traffic		Dry	Dusk	Clear	HUNTING ROAD
2/15/2012	5:12 PM Property damage only (none injured)	No injury	Single vehicle crash	Collision with tree		Dry	Dusk	Clear/Clear	HIGHLAND AVENUE
3/13/2012	6:43 AM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic		Dry	Dusk	Clear	GREAT PLAIN AVENUE
5/31/2012	8:15 PM Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	, , , , , , , , , , , , , , , , , , ,	Dry	Dusk	Clear/Clear	CHESTNUT STREET
4/12/2012	7:20 PM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic		Wet	Dusk	Cloudy/Rain	CENTRAL AVENUE / GOULD STREET
2/12/2	650,000				D1:(Made an improper turn),(Failure to keep in proper lane			SI.	
9/10/2012	6:50 PM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic		Dry	Dusk	Clear	HIGHLAND AVENUE / CHARLES STREET
3/1/2012	5:15 PM Property damage only (none injured)	No injury	Head-on	Collision with other	D1:(Driving too fast for conditions),(Disregarded traffic signs,	2110M	Dusk	Snow	CHARLES RIVER STREET
7/24/2012	7:27 PM Unknown	Helmoure	Single vehicle	Collision with willter and	D1/No improper dri ir -\	\M/ot	Duck	Clear	NEHOIDEN STREET / PENNSYLVANIA AVENUE
7/24/2012	7:27 PM Unknown 5:07 PM Unknown	Unknown	Single vehicle crash	Collision with motor vehicle in traffic	D1:(No improper driving)	Wet	Dusk Dusk	Clear	HIGHLAND AVENUE / GOULD STREET
10/15/2012 12/20/2012	4:00 PM Property damage only (none injured)	No injury	Single vehicle crash Angle	Collision with motor vehicle in traffic  Collision with parked motor vehicle		Dry Dry	Dusk	Cloudy	GREAT PLAIN AVENUE
12/20/2012	4:00 PM Property damage only (none injured)	No injury	Unknown	Collision with parked motor vehicle  Collision with other	D1:(No improper driving) D2:(No improper driving)	Dry	Dusk	Clear	HIGHLAND AVENUE
12/13/2012	4.00 Fivin Operty damage only (none injured)	iso rijul y	CHRIOWII	Complete With Other	D1:(No improper driving) D2:(No improper driving) D1:(Driving too fast for conditions),(Glare) D2:(Driving too	J. y	Dusk	cical	THORIDAY LINUL
1/17/2013	7:55 AM Non-fatal injury	Non-fatal injury - Possible	Rear-end	Collision with motor vehicle in traffic	fast for conditions),(Glare) D3:(No improper driving) D4:(No	Wet	Dusk	Clear	ROSEMARY STREET
1/1//2013	7.55 7.11. Tutur injury	iotal injury 1 obsidie		Someon war motor venice in traine			1- 000	2.50	
2/21/2013	5:21 PM Property damage only (none injured)	No injury	Sideswipe, same direction	Collision with parked motor vehicle	D1:(No improper driving) D2:(Other improper action)	Dry	Dusk	Clear	GREAT PLAIN AVENUE / GARDEN STREET
2/21/2013	3.21 Fivilitioperty dailiage only (none injured)	into injuly	Sideswipe, same direction	Complete With Parked Motor Venicle	DE.(110 Improper driving) DE.(Other Improper action)	U. y	Dush	Cicui	OAKLAND AVENUE / HIGHLAND COURT /
2/2/2013	6:10 PM Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic		Dry	Dusk	Cloudy/Cloudy	KINGSBURY STREET
5/15/2013	6:12 PM Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	D1:(Followed too closely) D2:(No improper driving)	Wet	Dusk	Cloudy/Cloudy	BROAD MEADOW ROAD
1/28/2012	3:40 PM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	77 \ 1 1 1 37	Dry	Dusk	Clear/Clear	CHAPEL STREET
1,20,2012	2	- 91	-0	Seminary Fernancial Parish	,	,			
7/5/2012	7:14 PM Non-fatal injury	Non-fatal injury - Possible	Single vehicle crash	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(No improper driving)	Dry	Dusk	Clear	KENDRICK STREET / GREENDALE AVENUE
1/23/2013	4:30 PM Property damage only (none injured)	No injury	Sideswipe, same direction	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(No improper driving)	Dry	Dusk	Clear	MARK LEE ROAD
,,	she day was and frame whereal		p.,,		D1:(No improper driving) D2:(Failure to keep in proper lane				
2/6/2013	5:28 PM Non-fatal injury	Non-fatal injury - Possible	Sideswipe, same direction	Collision with motor vehicle in traffic	or running off road)	Dry	Dusk	Clear/Clear	DEDHAM AVENUE / GREAT PLAIN AVENUE
3/6/2013	5:16 PM Non-fatal injury	Non-fatal injury - Possible	Angle	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Failed to yield right of way)	Wet	Dusk	Severe crosswinds/Rain	HIGHLAND AVE / HUNNEWELL ST
5,5,2020		,		The state of the s	D1:(Disregarded traffic signs, signals, road markings) D2:(No				,
1/2/2013	5:02 PM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	improper driving)	Dry	Dusk	Clear/Clear	GREAT PLAIN AVENUE / CHESTNUT STREET
3/28/2013	2:39 PM Non-fatal injury	Non-fatal injury - Possible	Single vehicle crash	Collision with utility pole		Dry	Dusk	Clear/Clear	HILLSIDE AVENUE
8/21/2013	8:35 AM Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Failed to yield right of way)	1	Dusk	Clear/Clear	GOULD STREET
8/29/2013	10:49 AM Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	D1:(Followed too closely) D2:(No improper driving)	Dry	Dusk	Cloudy/Cloudy	HIGHLAND AVE
-,,					D1:(Operating vehicle in erratic, reckless, careless, negligent	,		.,,	
10/9/2013	12:00 AM Property damage only (none injured)	No injury	Sideswipe, same direction	Collision with motor vehicle in traffic		Dry	Dusk	Clear	HIGHLAND AV / 2ND AV
10/10/2013	8:04 AM Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic		Dry	Dusk	Clear/Clear	CENTRAL AVENUE / HIGH ROCK STREET
	, : , 5 , , ,		•		,		•	*	

Crash Date	Consider Times	Crash Severity	Mariana Irian Carata Barata	Manner of Collision	First Harmful Event	Driver Contributing Codes	David Confess	Ambient Light	Marahan Candisian	Paradourou.
10/12/2013	Crash Time	1 Non-fatal injury	Maximum Injury Severity Reported  Non-fatal injury - Non-incapacitating	Single vehicle crash	Collision with motor vehicle in traffic	D1:(Failure to keep in proper lane or running off road)	Road Surface Wet	Dusk Ambient Light	Weather Condition Cloudy/Rain	4TH AVE / KENDRICK ST
8/17/2013		/ Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic		Dry	Dusk	Clear	HIGHLAND AVENUE / WEST STREET
12/14/2013		1 Property damage only (none injured)	Not Applicable	Angle	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Disregarded traffic signs, D1:(No improper driving) D2:(Disregarded traffic signs,	Snow	Dusk	Snow/Snow	CENTRAL AVE / CHARLES RIVER STREET
12/26/2013		/ Property damage only (none injured)	No injury	Rear-end	Collision with parked motor vehicle	D1:(No improper driving) D2:(No improper driving)	Ice	Dusk	Cloudy/Snow	CENTRAL AVE
11/3/2013		1 Property damage only (none injured)	No injury	Single vehicle crash	Collision with utility pole	D1:(No improper driving) D2:(No improper driving)	Dry	Dusk	Clear/Clear	PINE ST
11/16/2013		1 Property damage only (none injured)	No injury	Sideswipe, same direction	Collision with motor vehicle in traffic	D1:(Inattention) D2:(No improper driving)	Dry	Dusk	Clear/Clear	HIGHLAND AVENUE
12/4/2013		1 Non-fatal injury	Non-fatal injury - Possible	Angle	Collision with motor vehicle in traffic	D1:(Failed to yield right of way) D2:(No improper driving)	Dry	Dusk	Clear/Clear	HIGHLAND AVE
12/6/2013		1 Non-fatal injury	Non-fatal injury - Possible	Angle	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(No improper driving)	Wet	Dusk	Clear/Clear	CENTRAL AVE / GOULD ST
12/14/2013		1 Property damage only (none injured)	No injury	Single vehicle crash	Collision with utility pole	D1:(No improper driving)	Dry	Dusk	Clear/Clear	EDGEWATER DRIVE / SOUTH STREET
11/25/2013		1 Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	D1:(Followed too closely) D2:(No improper driving)	Dry	Dusk	Clear/Clear	GREENDALE AVENUE
3/17/2013		1 Non-fatal injury	Non-fatal injury - Possible	Angle	Collision with pedalcycle (bicycle, tricycle,	D1:(Failed to yield right of way)	Dry	Dusk	Clear	DEDHAM AVE Rte 135 E
2/6/2014		1 Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Made an improper turn)	Wet	Dusk	Cloudy/Cloudy	HIGHLAND AVE / WEBSTER STREET
2/0/2014	5.21110	Troperty damage only (none injured)	The right y	Angic	Complete With Motor Vehicle in traine	D1:(Failure to keep in proper lane or running off	Wet	Busk	cloudy, cloudy	THOREAND AVE / WEDSTER STREET
2/24/2014	5·13 PM	1 Property damage only (none injured)	No injury	Sideswipe, same direction	Collision with parked motor vehicle	road),(Operating vehicle in erratic, reckless, careless,	Dry	Dusk	Clear/Clear	GREAT PLAIN AVENUE
2/26/2014		1 Property damage only (none injured)	No injury	Sideswipe, opposite direction	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Failed to yield right of way)	Dry	Dusk	Clear/Clear	CHESTNUT STREET / HIGH ROCK STREET
4/9/2014		1 Non-fatal injury	Non-fatal injury - Possible	Head-on	Collision with motor vehicle in traffic	D1:(Failed to yield right of way) D2:(No improper driving)	Dry	Dusk	Clear/Clear	HIGHLAND AVE.
2/14/2014		1 Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	D1:(Unknown) D2:(No improper driving)	Wet	Dusk	Clear/Clear	POWERS ST / WOODLAWN AVE
4/17/2014		1 Property damage only (none injured)	No injury	Rear-end	Collision with other	D1:(No improper driving) D2:(Other improper action)	Dry	Dusk	Clear	B STREET
., 1., 2014	3.7011				- The state of the	D1:(Disregarded traffic signs, signals, road markings) D2:(No	<del>  '</del>		5.55	FAIR OAKS ST. / DEDHAM AVE. / PLEASANT
5/20/2014	8:08 PM	1 Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	improper driving)	Dry	Dusk	Clear/Clear	ST.
6/3/2014		1 Non-fatal injury	Non-fatal injury - Possible	Rear-end	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Inattention)	Dry	Dusk	Clear/Clear	CENTRAL AVE / FOREST ST
6/30/2014		1 Property damage only (none injured)	No injury	Angle	Collision with parked motor vehicle	D1:(No improper driving) D2:(Mo improper driving)	Dry	Dusk	Clear/Clear	GREAT PLAIN AVE
10/17/2014		1 Property damage only (none injured)	No injury	Head-on	Collision with guardrail	D1:(Distracted) D2:(No improper driving)	Wet	Dusk	Rain/Rain	SOUTH ST
10/16/2014		1 Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Failed to yield right of way)	Wet	Dusk	Rain	CENTRAL AVE / WEBSTER ST.
10/21/2014		1 Property damage only (none injured)	No injury	Single vehicle crash	Collision with guardrail	D1:(Failure to keep in proper lane or running off road)	Dry	Dusk	Clear/Clear	DEDHAM AVE / SOUTH STREET
9/4/2014		1 Non-fatal injury	Non-fatal injury - Possible	Angle	Collison with moped	D1:(Made an improper turn) D2:(No improper driving)	Dry	Dusk	Clear	HIGHLAND AVENUE / RIVERSIDE STREET
11/4/2014		1 Property damage only (none injured)	No injury	Sideswipe, opposite direction	Collision with motor vehicle in traffic	D1:(Disregarded traffic signs, signals, road markings) D2:(No	<del>  '</del>	Dusk	Clear/Clear	LINDEN STREET / GREAT PLAIN AVENUE
12/16/2014		1 Property damage only (none injured)	No injury	Single vehicle crash	Collision with animal - deer	D1:(No improper driving)	Dry	Dusk	Cloudy	GREENDALE AVE
2/4/2015		1 Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(No improper driving)	Wet	Dusk	Cloudy/Snow	HARRIS AVENUE / WEBSTER STREET
2/4/2015		Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Visibility obstructed) D2:(No improper driving)	Wet	Dusk	Cloudy/Cloudy	WEBSTER ST / MAY ST
, ,			7 '			D1:(Unknown) D2:(Disregarded traffic signs, signals, road			,, ,	
2/5/2015	5:12 PM	Non-fatal injury	Non-fatal injury - Non-incapacitating	Angle	Collision with motor vehicle in traffic	markings),(Driving too fast for conditions)	Ice	Dusk	Cloudy/Cloudy	OAK ST / LINDEN ST
2/13/2015	5:20 PM	1 Property damage only (none injured)	No injury	Sideswipe, same direction	Collision with motor vehicle in traffic	D1:(Failed to yield right of way) D2:(No improper driving)	Dry	Dusk	Clear	WEBSTER ST / HILLSIDE AVE
2/14/2015	4:00 PM	Property damage only (none injured)	No injury	Sideswipe, opposite direction	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(No improper driving)	Snow	Dusk	Snow/Sleet, hail (freezing rain or drizzle)	GREAT PLANE AVE
2/25/2015	5:08 PM	Non-fatal injury	Non-fatal injury - Non-incapacitating	Angle	Collision with motor vehicle in traffic	D1:(Failed to yield right of way) D2:(No improper driving)	Wet	Dusk	Clear/Snow	GREENDALE AVE / HIGH STREET
4/11/2015	6:50 PM	Non-fatal injury	Non-fatal injury - Non-incapacitating	Single vehicle crash	Collision with utility pole	D1:(Unknown)	Dry	Dusk	Clear	DARTMOUTH
5/25/2015	7:38 PM	Property damage only (none injured)	No injury	Single vehicle crash	Collision with unknown fixed object	D1:(Other improper action)	Dry	Dusk	Clear/Clear	GREAT PLAIN AVE.
6/7/2015	6:50 PM	Property damage only (none injured)	No injury	Single vehicle crash	Collision with utility pole	D1:(Unknown)	Dry	Dusk	Clear	BURNSIDE RD / HIGH ST
6/24/2015	8:20 PM	1 Non-fatal injury	Non-fatal injury - Possible	Angle	Collision with motor vehicle in traffic	D1:(Unknown) D2:(Visibility obstructed),(No improper	Dry	Dusk	Clear	WEST ST
										RAMP-RTS 95 SB/128 SB TO HIGHLAND AVE
2/2/2016		1 Property damage only (none injured)	No injury	Single vehicle crash	Overturn/rollover	D1:(Driving too fast for conditions)	Dry	Dusk	Clear	SB
10/24/2015		1 Property damage only (none injured)	No injury	Single vehicle crash	Collision with parked motor vehicle	D1:(Unknown) D2:(No improper driving)	Dry	Dusk	Clear	HIGHLAND AVE
10/28/2015		1 Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	D1:(Unknown) D2:(No improper driving)	Wet	Dusk	Rain/Other	HIGHLAND AVE
11/11/2015	2:54 PM	Property damage only (none injured)	No injury	Single vehicle crash	Collision with animal - deer	D1:(No improper driving)	Dry	Dusk	Clear	CHARLES RIVER ST
						D1:(No improper driving) D2:(Failure to keep in proper lane				
12/27/2015		Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	or running off road),(Inattention)	Dry	Dusk	Cloudy	GREAT PLAIN AVE
11/29/2015		1 Non-fatal injury	Non-fatal injury - Possible	Single vehicle crash	Collision with motor vehicle in traffic	D1:(Failed to yield right of way) D2:(No improper driving)	Dry	Dusk	Clear	HUNNEWELL ST / CENTRAL AVE
2/3/2016		1 Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Failed to yield right of way) D2:(No improper driving)	Wet	Dusk	Cloudy/Rain	KENDRICK ST / 4TH AVE
1/10/2016		1 Non-fatal injury	Non-fatal injury - Possible	Single vehicle crash	Collision with pedestrian	D1:(No improper driving)	Wet	Dusk	Rain/Cloudy	WEBSTER ST / HIGHLAND AVE
2/23/2016	5:23 PM	1 Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Distracted)	Dry	Dusk	Clear/Unknown	CENTRAL AVE
			l	<u>.</u> .		D1:(Inattention) D2:(No improper driving) D3:(No improper	L	L .		
4/1/2016		1 Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	driving) D4:(No improper driving)	Dry	Dusk	Clear	HIGHLAND AVE
6/14/2016		1 Property damage only (none injured)	No injury	Sideswipe, same direction	Collison with moped	D1:(No improper driving)	Dry	Dusk	Clear	HIGHLAND AVE
7/28/2016		1 Non-fatal injury	Non-fatal injury - Possible	Rear-end	Collision with motor vehicle in traffic	D1:(No improper driving) D2:(Distracted)	Dry	Dusk	Clear	CENTRAL AVE
8/13/2016		1 Property damage only (none injured)	No injury	Rear-end	Collision with parked motor vehicle	D1:(Unknown) D2:(No improper driving)	Dry	Dusk	Clear	HIGH ROCK ST
10/27/2016		1 Property damage only (none injured)	No injury	Rear-end	Collision with motor vehicle in traffic	D1:(Other improper action) D2:(No improper driving)	Wet	Dusk	Rain	CENTRAL AVE
12/27/2016		1 Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Failed to yield right of way) D2:(No improper driving) D1:(Glare).(Unknown)	Dry	Dusk Dusk	Clear	HUNTING RD HIGHLAND AVE
11/22/2016		1 Property damage only (none injured)	No injury	Single vehicle crash	Collision with other movable object  Collision with motor vehicle in traffic	X = x = IX = x = 1	Dry Wet	Dusk	Rain	CENTRAL AVE
11/29/2016	3:34 PM	Property damage only (none injured)	No injury	Angle	Collision with motor vehicle in traffic	D1:(Unknown) D2:(No improper driving)	vvet	Dusk	Kain	CENTRAL AVE