

# Traffic Impact and Access Study Summary

Proposed Residential Development  
Freetown Street  
Lakeville, MA

July 8, 2024



*Civil • Structural • Transportation • Surveying*

# Site Location Map



## Proposed Project

- Development of 200 units of residential housing:
  - 44 single-family homes
  - 46 duplex units
  - 110 condominium units
- Access to the project is proposed via two separate driveways (northern driveway and southern driveway) onto the eastern side of Freetown Street
- In conjunction with the project, significant roadway improvements are proposed at the intersection of County Street with Freetown Street

# Site Plan



# Study Area



# Study Methodology

- Evaluation of Existing Conditions
  - Traffic Volumes
  - Roadway and Intersection Geometrics
  - Motor Vehicle Crash History
  - Vehicle Speeds
  - Sight Distance Analysis
- Forecast to Future Conditions
  - Seven Year Planning Horizon (2031)
  - Account for growth in traffic independent of the project
  - Trip Generation based on ITE trip generation data for residential developments

# Trip Generation Summary

Time Period	44 Detached Units <sup>a</sup>	156 Attached Units <sup>b</sup>	Total Trips <sup>†</sup>
<b>Weekday Daily</b>	470	1,140	1,610
<b>Weekday AM Peak Hour</b>			
Enter	9	19	28
<u>Exit</u>	<u>26</u>	<u>56</u>	<u>82</u>
Total	35	75	110
<b>Weekday PM Peak Hour</b>			
Enter	29	53	82
<u>Exit</u>	<u>17</u>	<u>37</u>	<u>54</u>
Total	46	90	136

<sup>a</sup> ITE Land Use Code 210 (Single Family Housing – Detached Housing) applied to 44 units.

<sup>b</sup> ITE Land Use Code 215 (Single Family Housing – Attached Housing) applied to 156 units.

# County Street at Freetown Street – Existing Conditions







## Conclusions and Recommendations

- Project is expected to generate approximately 2 trips per minute during peak hours of commuter traffic
- Majority of traffic expected to arrive and depart via Freetown Street to the north
- The proposed site access driveways provide adequate sight distance to ensure safe operation
- The proposed site driveways should be designed to applicable MUTCD design criteria, including STOP-signs and painted stop lines, with all landscaping located and maintained to ensure adequate sight lines are maintained at both locations
- With implementation of proposed roadway improvements, operating conditions will be improved as compared to existing conditions at the intersection of County Street with Freetown Street