

Traffic Impact Assessment (TIA) Overview

- Prepared in consultation with guidelines for TIAs and in coordination with area planning agencies, MassDOT, and the Towns of Grafton and Millbury.
- The project utilized 2021 traffic volume data which was adjusted upward by 16 percent in accordance with MassDOT Guidelines due to the effects of COVID-19.
- Based on discussion with the Town, one background development project was identified in the immediate area of the project site and incorporated into the traffic study.
- The project-related traffic volume increases are projected to vary between 3 and 32 vehicles or 0.7 to 2 percent during peak hours.
- Adequate lines of sight exist at the site driveways according to the recommended minimum distances for a safe operation based on the appropriate approach speed.



Site Location and Study Area Map



Project Trip Generation

| <u>Time Period/Direction</u> | <u>Proposed Warehouse Car Trips (375,000 sf)</u> | <u>Proposed Warehouse Truck Trips (375,000 sf)^a</u> | <u>Proposed Warehouse Total Trips (375,000 sf)^b</u> |
|------------------------------|--|--|--|
| Weekday Daily | 412 | 226 | 638 |
| Weekday Morning Peak Hour: | | | |
| Entering | 45 | 4 | 49 |
| <u>Exiting</u> | <u>11</u> | <u>4</u> | <u>15</u> |
| Total | 56 | 8 | 64 |
| Weekday Evening Peak Hour: | | | |
| Entering | 13 | 6 | 19 |
| <u>Exiting</u> | <u>47</u> | <u>5</u> | <u>52</u> |
| Total | 60 | 11 | 71 |

Vehicle trips based on conventional warehouse – site is not anticipated to be a “last-mile” or fulfillment center use.



Conclusions

Project Access:

- Project will be closing one of the driveways associated with the site. Sufficient access will still be available with remaining driveways.
- Sight distances at driveways meet requirements based on observed and posted speeds.

Off-Site Recommendations:

- Applicant is proposing Speed Radar Signs along Route 122

Summary

- Project is expected to be a conventional warehouse and not an e-commerce facility
- No safety issues identified in road network
- Minor traffic volume increases expected due to project

