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Massachusetts Department of Transportation
Highway Division

Welcome!

Intersection & Signal Improvements at Kelley's Corner
Acton, MA| MassDOT Project File No. 608229

PUBLIC HEARING

Acton Town Hall Room 204
March 5, 2019| 7:00 PM

Project Team

Town of Acton

Project Proponent

Greenman-Pedersen, Inc. (GPI)

Responsible for Design

MassDOT's Highway Division

Responsible for administering the Design Process and providing Resident Engineer Services

Federal Highway Administration

Responsible for Oversight

Project Objective

"Continue the Town of Acton's initiative to transform Kelley's Corner into a **safe**, **accessible**, and **walkable** destination, while addressing corridor congestion and improving the safety of **pedestrians**, **bicyclists**, **students**, and **drivers**"

Project Background

1977
- Harvard University Plan – transform Kelley's Corner – "safe, attractive, and desirable"

Mid 1990s
- State Funding for Recommendations

2013
- Town Meeting launched Improvement Initiative

2016
- Concept Developed / Town secured State and Federal Funding

2016 to Present
- Project placed on TIP

25% Design submission
- Incorporate Feedback

Project Area

Length of Project = 1.16 Miles

Why do we need this project?

Existing Issues

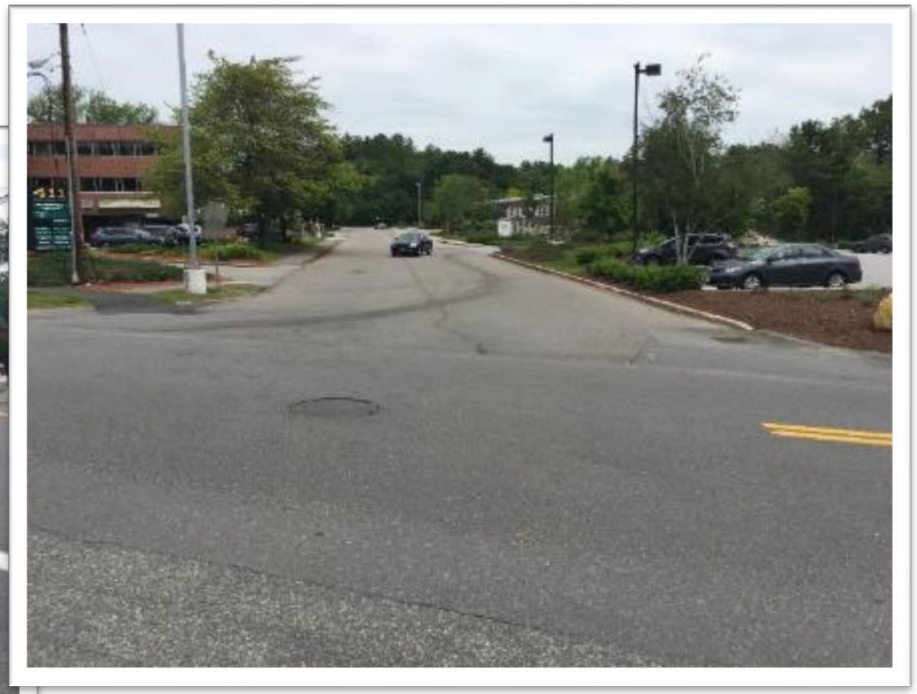
Main St. (27) and Mass. Ave (111) Congestion & Delays

Mass. Ave. Eastbound

Existing Issues

Intersection Safety

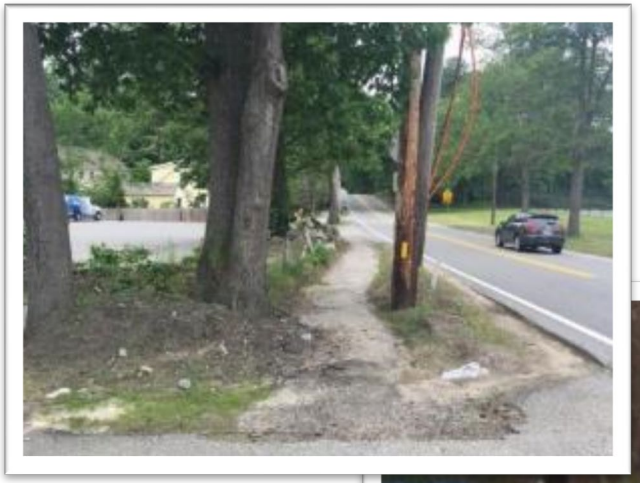
Charter Road at Mass. Ave.



Community Lane at Mass. Ave.

Existing Issues

Deficient Pedestrian Accommodations & Accessibility



Existing Issues

Lack of Bicycle Accommodations

Existing Issues

Poor Access and Curb Cut Management

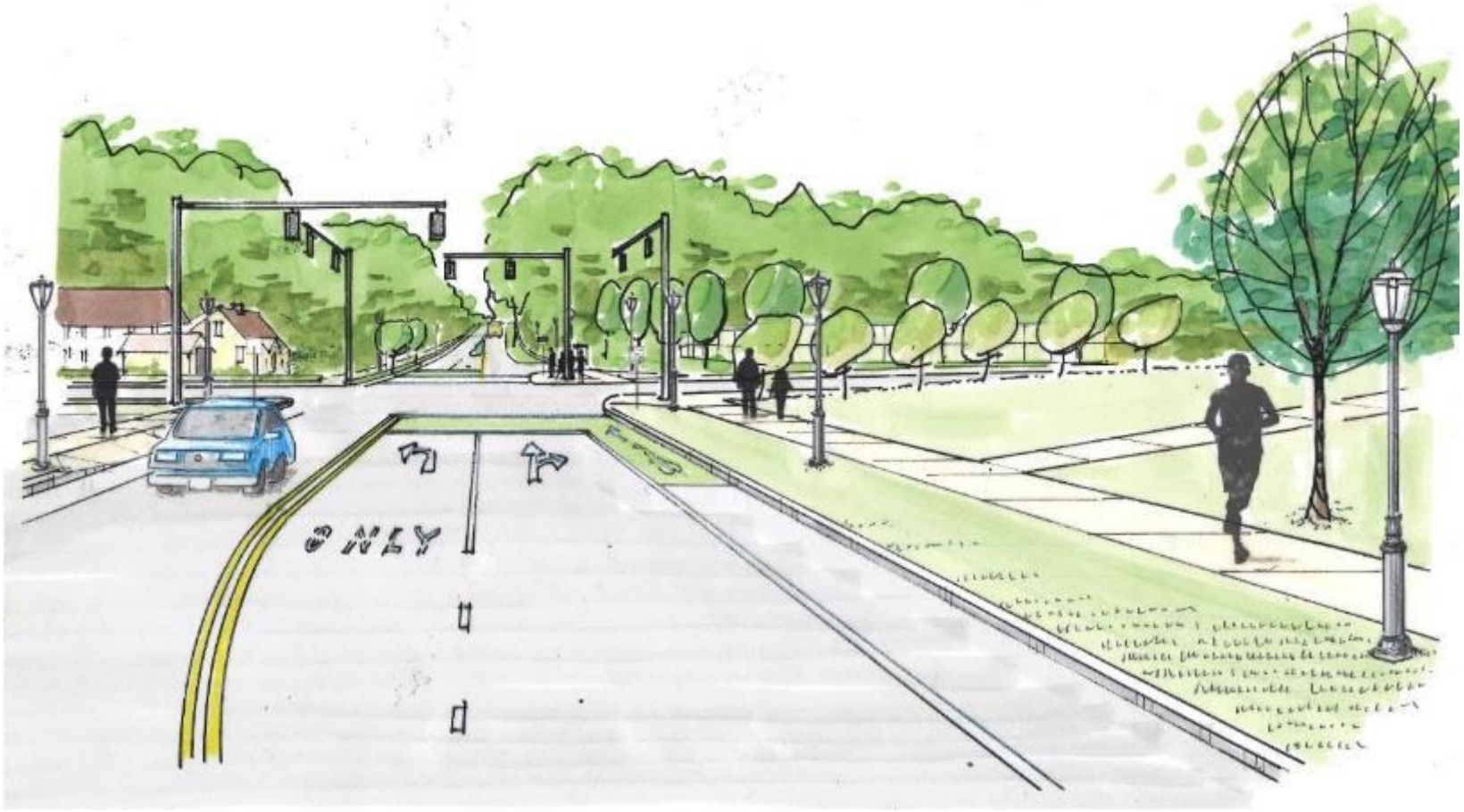
Project Goals

- Improve Intersection Safety and Operations
- Reduce Congestion and Traffic Delays
- Address Pedestrian Safety and Accessibility
- Address Bicyclist Safety and Accommodations
- Promote Connectivity and Walkability
- Incorporate streetscape elements; landscaping, pedestrian lighting, gathering areas
- Sensitivity to Abutters, Existing Vegetation, and Historic Resources
- Drainage & Utility Improvements

Proposed Improvements

- Traffic Signal Improvements
  - Signalize Charter Road @ Mass. Ave.
  - New Signals & Optimization at Main St. / Mass. Ave.
  - Signalize Community Lane @ Mass. Ave
- Capacity Improvements: Additional Lanes where warranted
  - At intersections
  - Pocket or center left turn lanes on Main Street/Mass. Ave roadways
- Accessible Pedestrian Sidewalks – both sides of all roadways
  - Buffer separation where feasible
- Pedestrian Crosswalks & Safety
  - RRFBs at unsignalized crossings
  - Pedestrian signal equipment / timed crossings at signalized intersections
- 5' Bicycle Lanes – both sides of all roadways
  - Intersection bicycle accommodations
- Street trees, landscaping, pedestrian lighting

Proposed Improvements



Mass. Ave. at Charter Road
(looking westbound on Mass. Ave.)

Proposed Improvements

Proposed Improvements

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Community Lane (looking southbound) at Mass. Ave.

Proposed Improvements

Proposed Improvements

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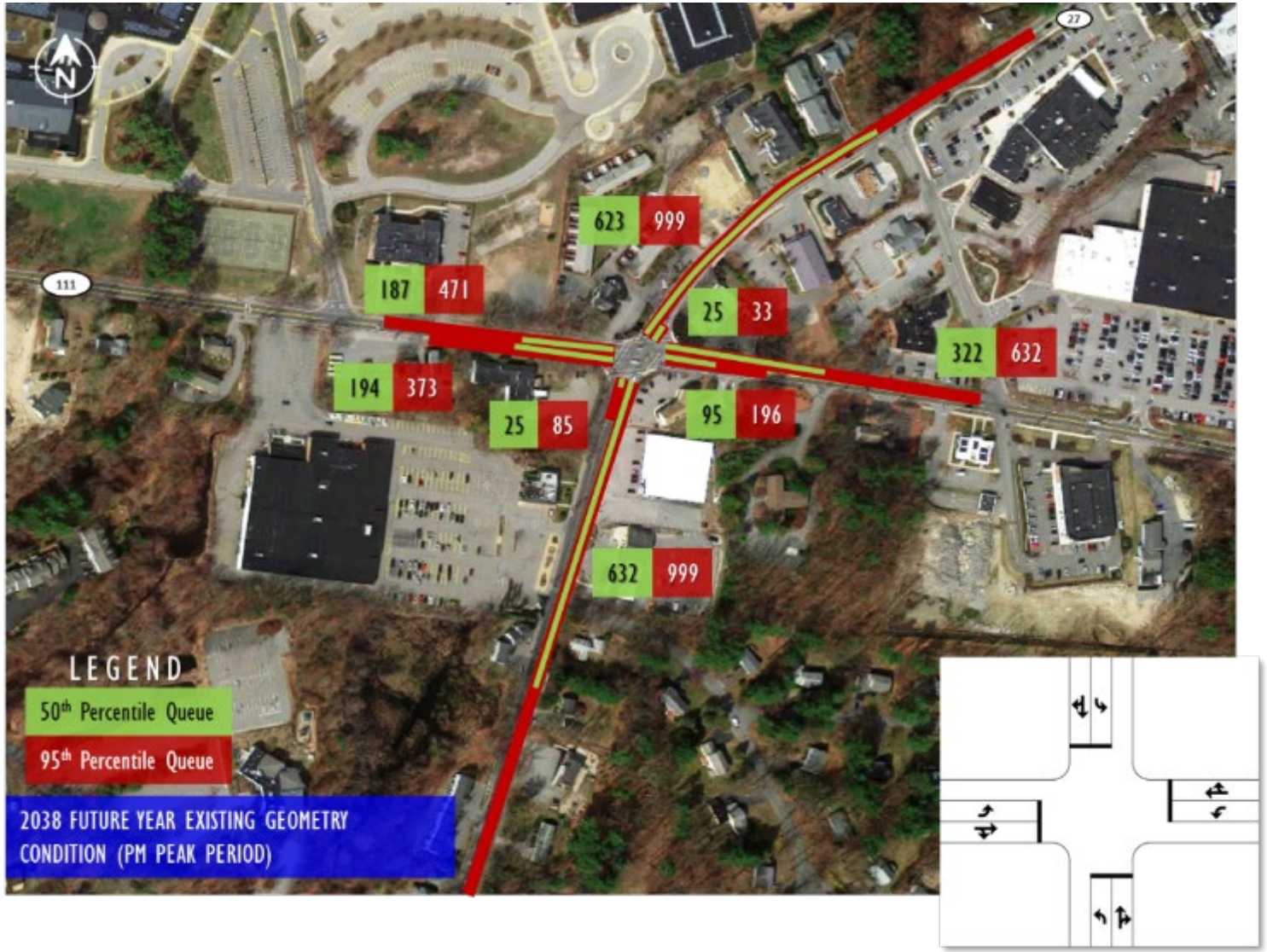
Main Street (looking southbound) near Hosmer House

Proposed Improvements

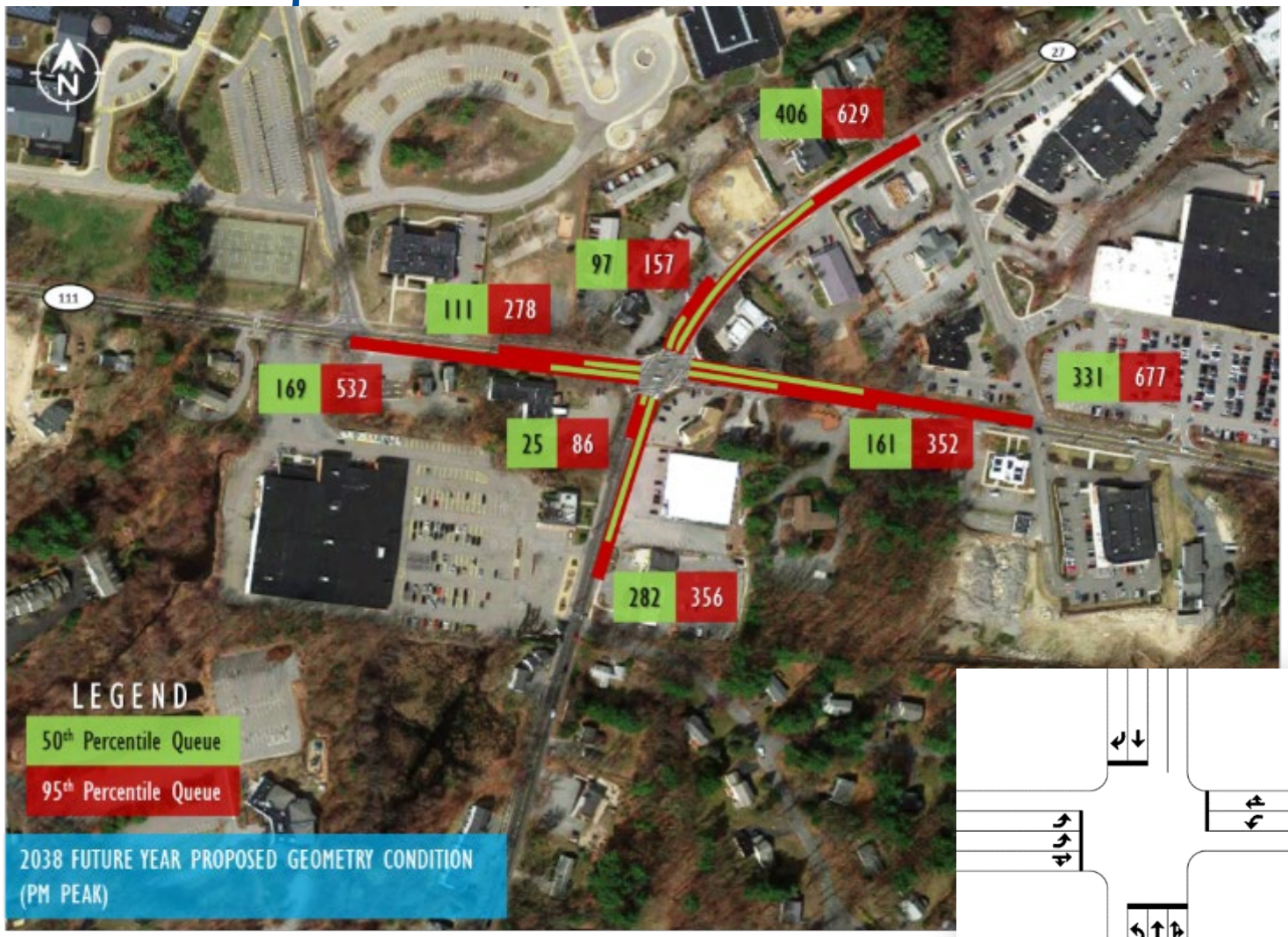
Intersection Operations: Massachusetts Avenue at Main Street

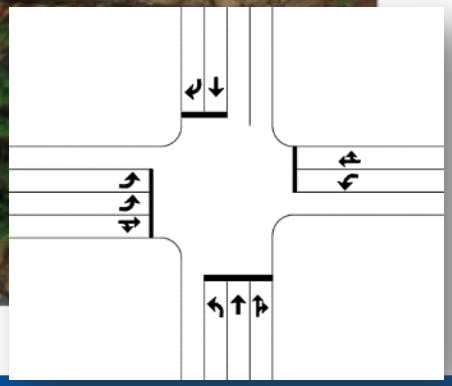
FUTURE EXISTING GEOMETRY



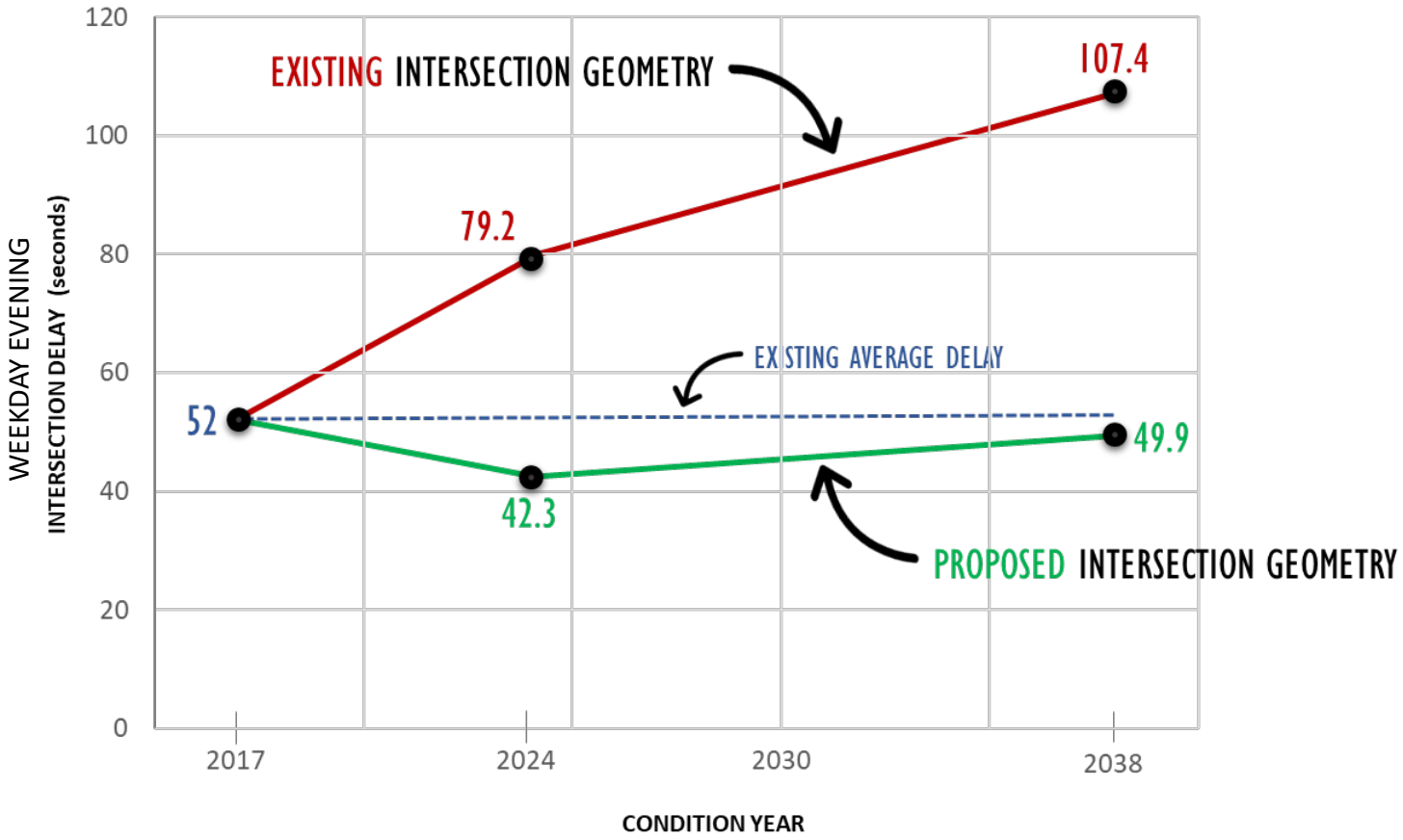
Intersection Operations: Massachusetts Avenue at Main Street

FUTURE PROPOSED GEOMETRY





Massachusetts Avenue (Route 111) at Main Street (Route 27) INTERSECTION DELAY

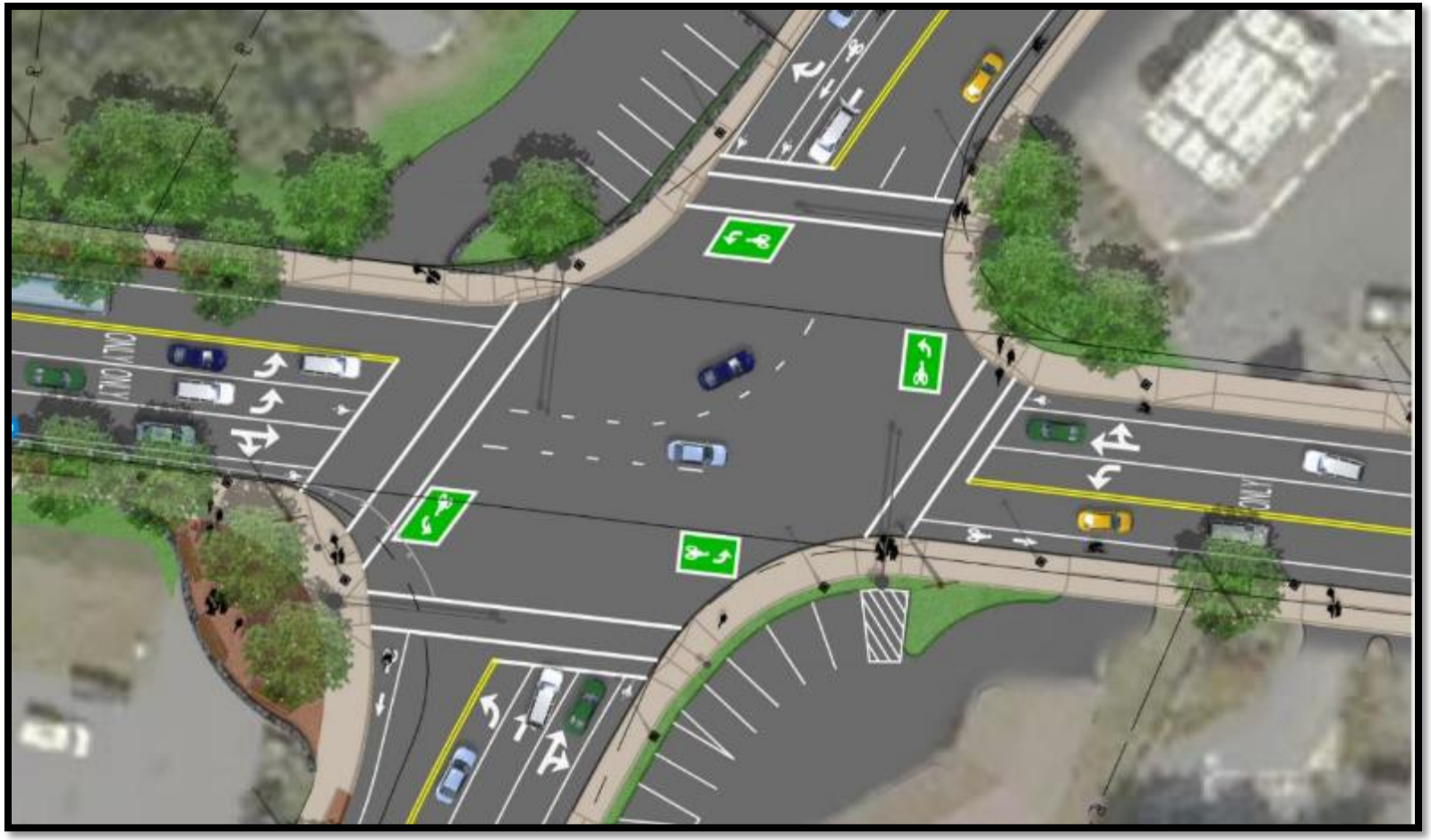


Proposed Improvements

RECTANGULAR RAPID FLASHING BEACONS

Proposed Improvements

TWO STAGE LEFT TURN BIKE BOXES



How will traffic be affected?

Construction Impacts

- Paving and Roadway reconstruction during off-peak hours
- Drainage and Utility work during off-peak hours
- Roadside work during regular construction hours
- Alternating Traffic if required
- Limit impacts to abutters and businesses
- Driveway access will be maintained
- Pedestrian access will be maintained

Environmental Permitting

- Massachusetts Environmental Policy Act Environmental Notification Form (ENF)
- National Environmental Policy Act Categorical Exclusion
- Wetlands Protection Act Notice of Intent (NOI)
- U.S. Army Corps of Engineers Clean Water Act Section 404 Permitting
- National Historic Preservation Act Section 106

Project Schedule

- MassDOT 25% Design Public Hearing March 5, 2019 ✓
- 75% Design Submittal Fall 2019
- 100% Design Submittal Summer/Fall 2020
- Anticipated Construction Start 2022

Contact Information

Project File No. 608229

- Mail-in comment sheets
- Patricia A. Leavenworth, P.E;
  - Dot.feedback.highway@state.ma.us
- MassDOT Project File No. 608229; Intersection & Signal Improvements at Kelley's Corner

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Thank You

Q&A

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Misc. Info Slides
As needed

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CONSTRUCTION FUNDING SOURCES

Federal & State

- **STP: Surface Transportation Program**
  - The Surface Transportation Program (STP) provides flexible funding that may be used by States and localities for projects to preserve and improve the conditions and performance on any **Federal-aid highway**, bridge and tunnel projects on any **public road, pedestrian and bicycle infrastructure**, and transit capital projects, including intercity bus terminals.

- **TAP: Transportation Alternatives Program**
  - Construction, planning and design of **on-road facilities for pedestrians, bicyclists, including sidewalks, bicycle infrastructure, traffic calming** techniques, lighting and other safety-related infrastructure and transportation projects to achieve compliance with ADA act of 1990.

- **CMAQ: Congestion Mitigation and Air Quality Improvement Program**
  - **Improved signalization, streamline intersections, adding turning lanes, non-recreation bicycle transportation and pedestrian improvements** to provide a reduction in single-occupant vehicle travel.

Project Funding

Design Costs

- Town of Acton: $1.4 Million +/-
- MassDOT: Provides Design Reviews, Comments, and Design Process Oversight

ROW Real Estate Appraisal Services

- Town of Acton: $75,000 +/-
- MassDOT: TBD

Estimated Acquisition Costs

- Town of Acton: Approximately 50% (portions of Main Street, Community Lane)
- MassDOT: Approximately 50% (Mass. Ave., portions of Main Street)

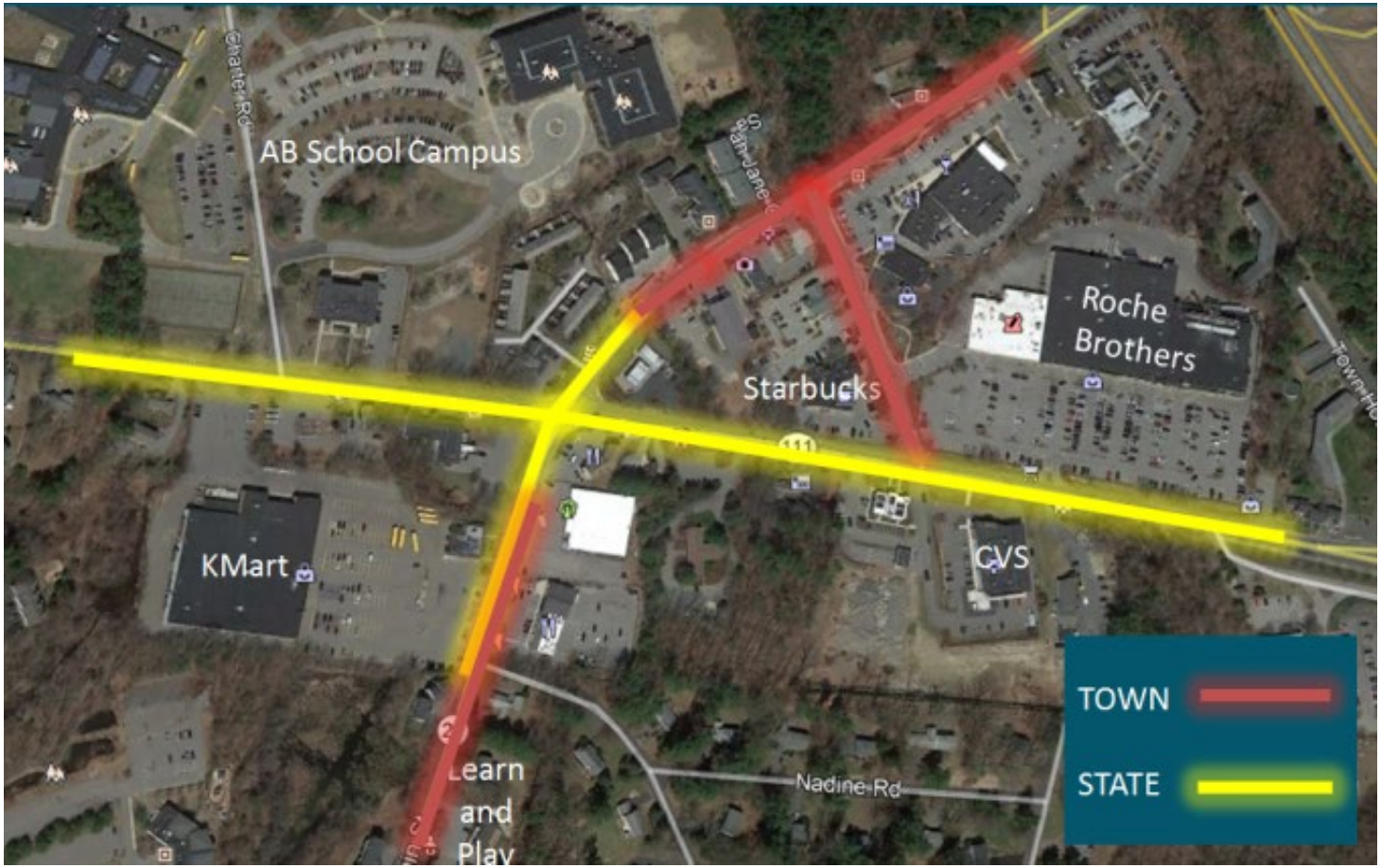
Construction Costs

- Town of Acton: Non-Participating Items (Est. $800k +/-)
- State/Federal: $14.7 Million

Project Funding

Estimates as of 1/10/19	Town Share (Projected)	State/Fed Investment (Projected)
Concept Planning and Engineering Design Costs	+/-$1.4 M (ATM13 $155,500 + ATM16 $756,000) + Proposed ATM19 $450,000	Construction oversight TBD
ROW Real Estate Appraisal Services	$75,000	$75,000 +
Estimated Acquisition Costs	$1.5 Million (Main Street and Community Ln)	$1.92 Million (Mass Ave. and Main St. at intersection)
Construction Costs	$0	$14.7M
Potential Non-Participating Items (construction costs that MassDOT does not cover):	100 Ornamental Lights (pole and luminaire) +/-$814,250	

Project Funding



Intersection Operations: Massachusetts Avenue at Charter Road

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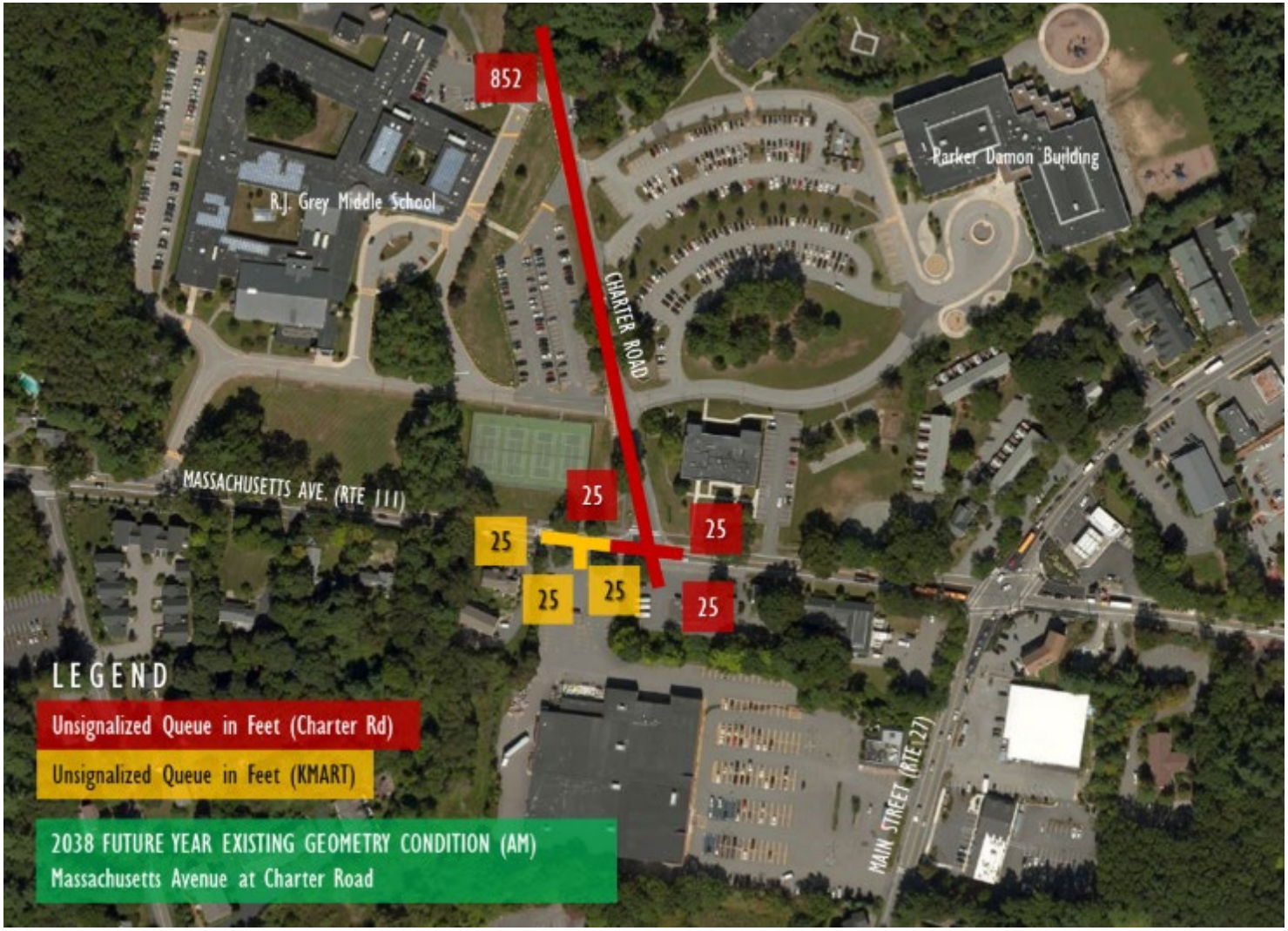

Intersection Operations: Massachusetts Avenue at Charter Road

FUTURE PROPOSED GEOMETRY

Intersection Operations: Massachusetts Avenue at Community Ln.

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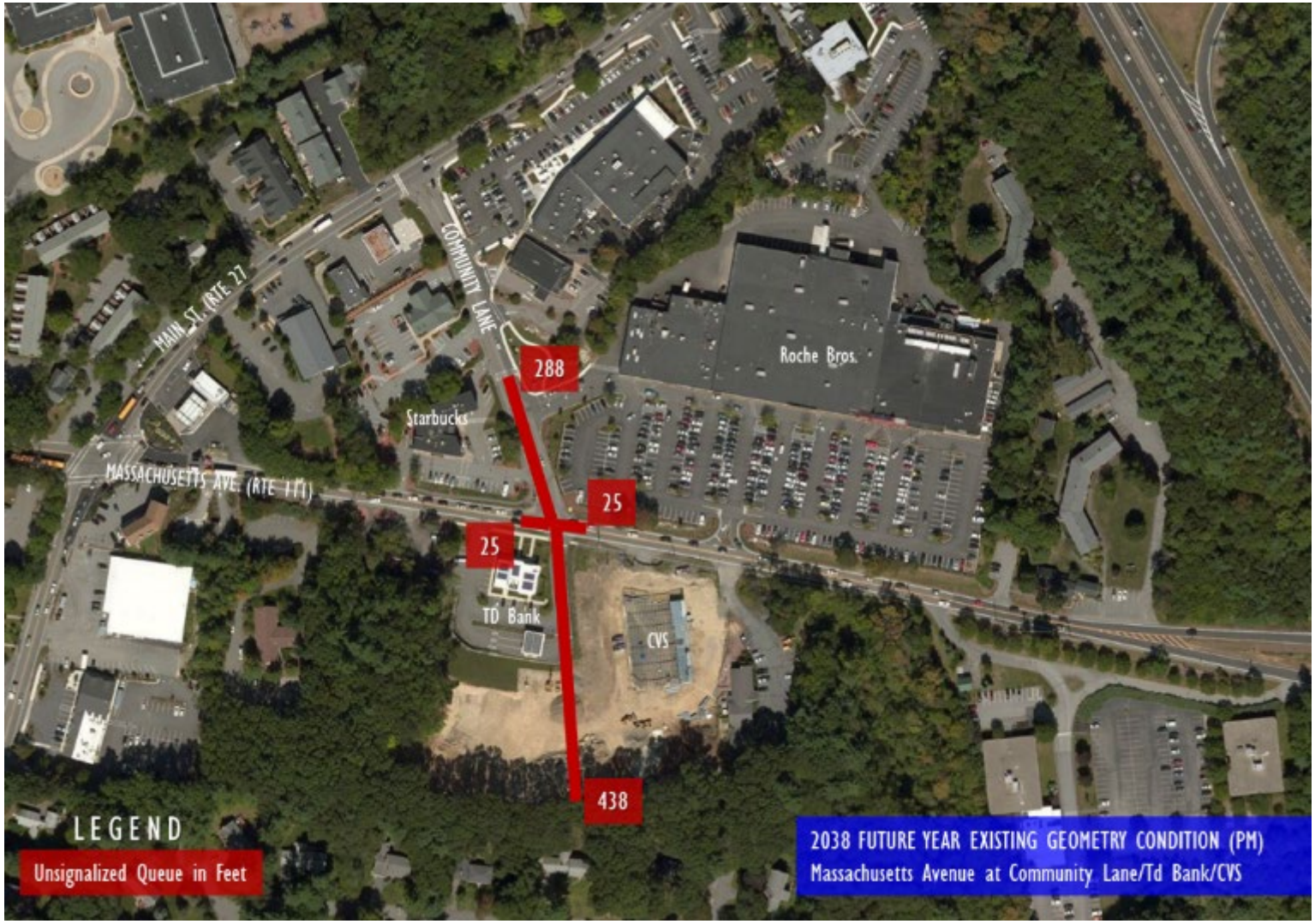

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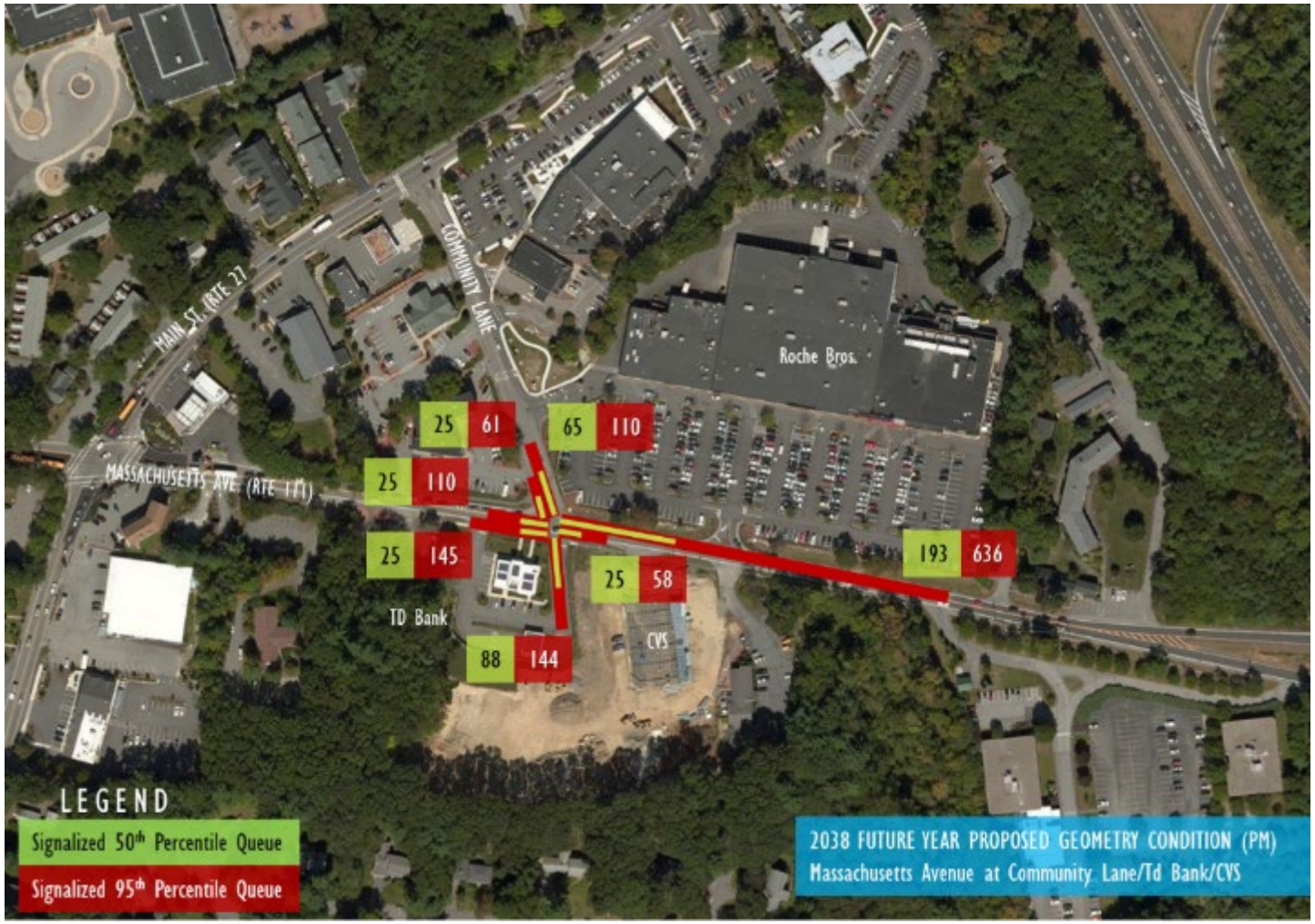
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