

Rehabilitation of Bridge Street Traffic & Safety Improvements at Three Locations



City of Beverly
Michael P. Cahill, Mayor

Thursday, September 17, 2015

PROJECT NEED

- Roadway & Sidewalk Rehabilitation
- Safety Improvements
- Operational Improvements & signal upgrades
- ADA Compliance
- Complete Streets
 - Accommodate all users – Vehicles, pedestrians, bicycles, transit
 - Create a “town street” environment



PROJECT SCHEDULE

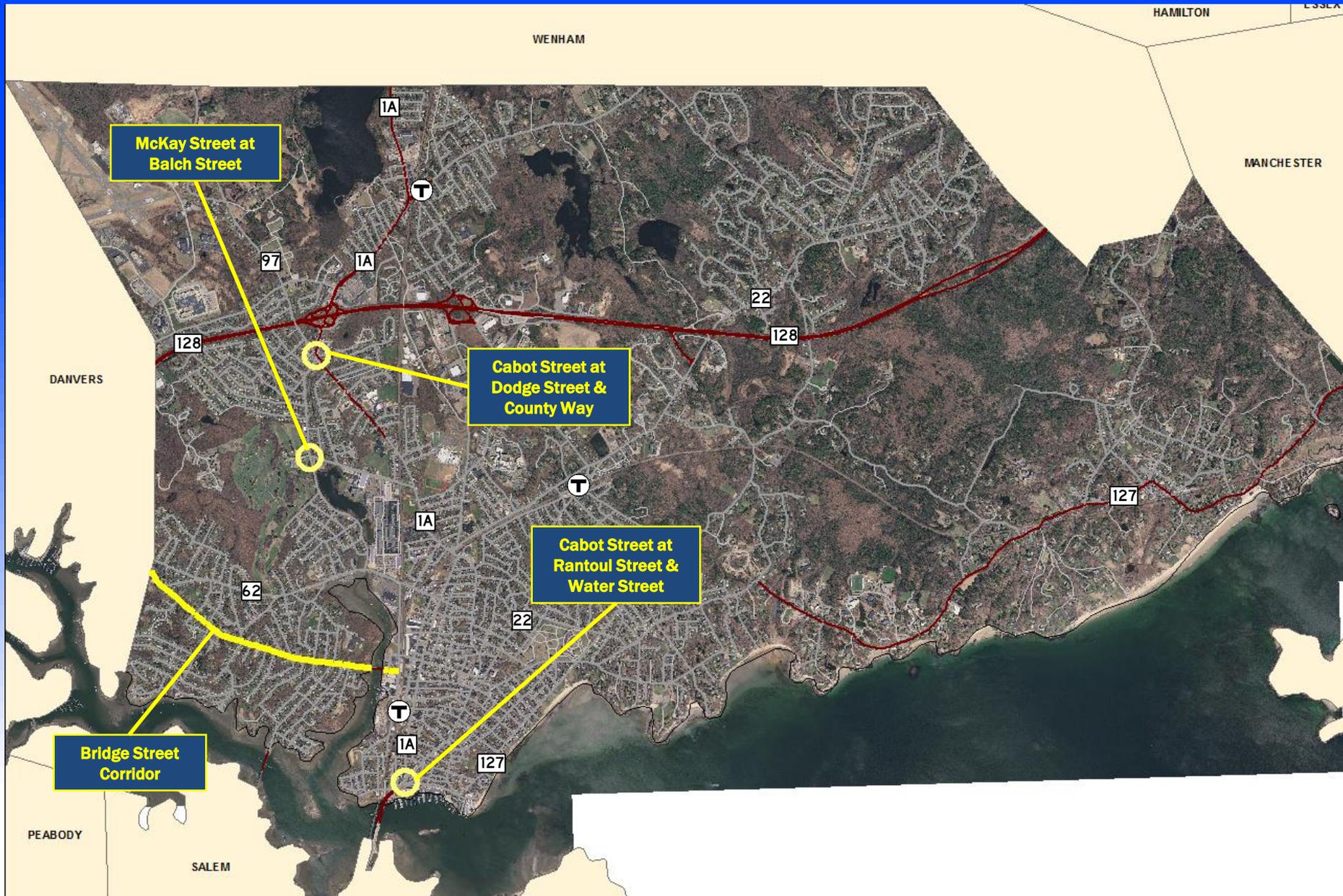
- Phase 1 (Current Phase)
 - Public Outreach
 - Data collection
 - Operational analysis of key intersections
 - Conceptual layout & Functional Design Report
 - Road Safety Audits
 - Funding Assistance

- Phase 2
 - Topographic Survey
 - Public Outreach
 - Preliminary Design

- Phase 3
 - Final Design
 - Project Award & Construction

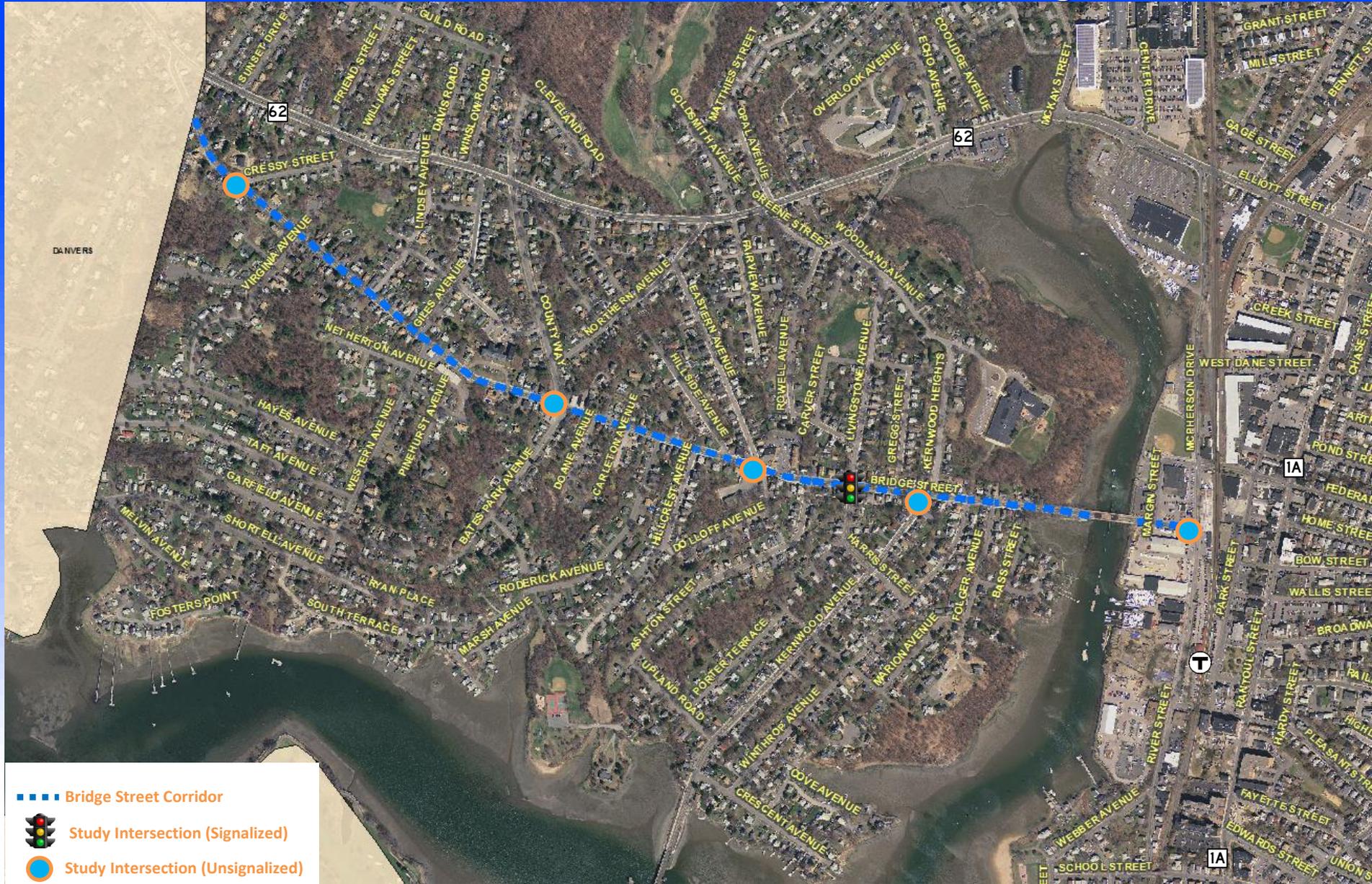


STUDY LOCATIONS



STUDY AREA

Bridge Street Corridor



STUDY AREA

Cabot Street at Dodge Street, County Way, Longmeadow Road, Scott Street



Study Intersection (Signalized)

STUDY AREA

McKay Street at Balch Street



Study Intersection (Unsignalized)



STUDY AREA

Cabot Street at Rantoul Street, Water Street, Front Street, Goat Hill Lane



Study Intersection (Signalized)

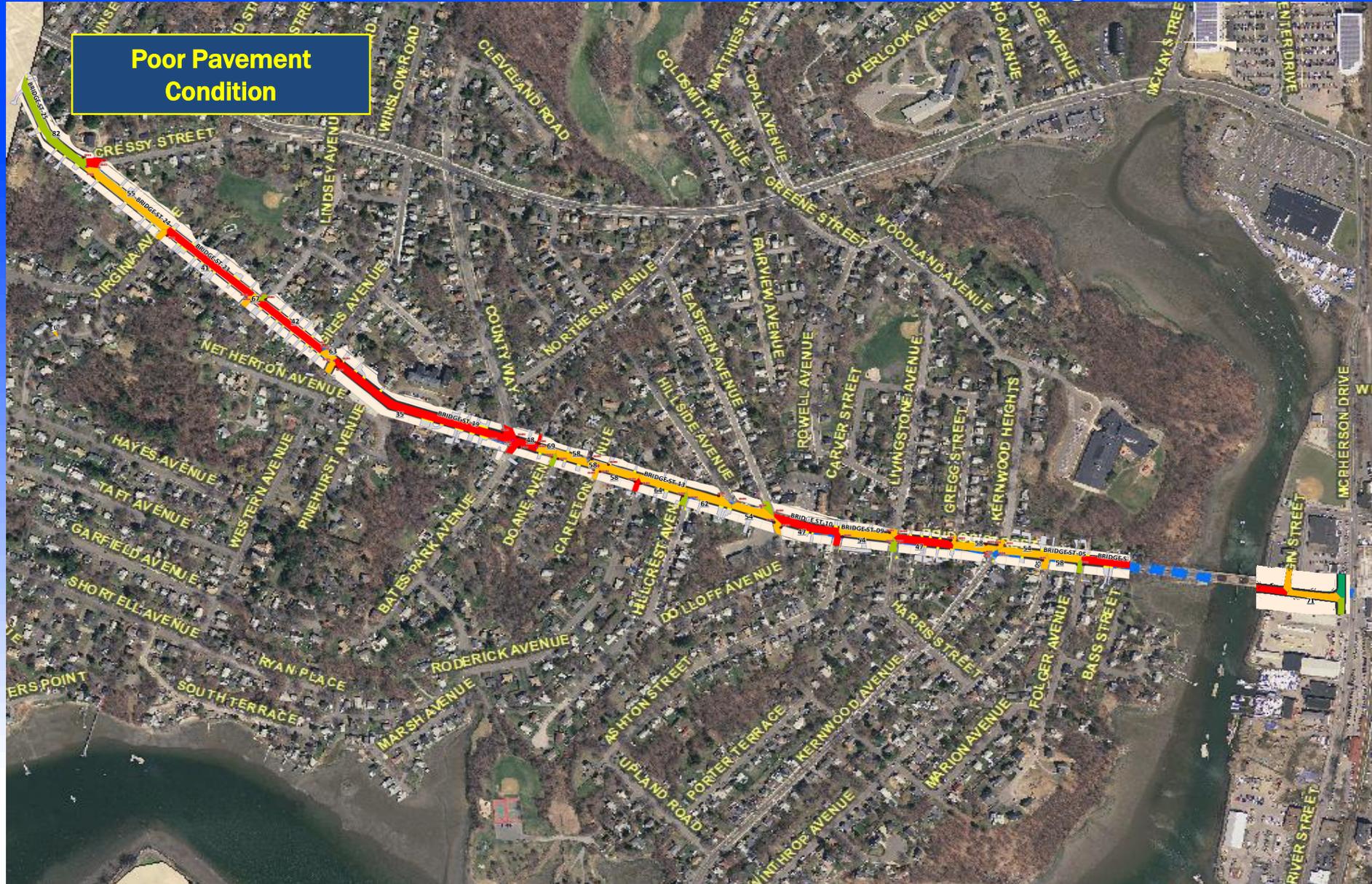


Study Intersection (Unsignalized)

EXISTING CONDITIONS

Bridge Street Corridor

Poor Pavement
Condition



EXISTING CONDITIONS

Bridge Street Corridor

- Parking on sidewalks
- Curbs inconsistent
- Poor sidewalk condition
- Lack of ADA compliant ramps



EXISTING CONDITIONS

Bridge Street Corridor



EXISTING CONDITIONS

Bridge Street at River Street



EXISTING CONDITIONS

Cabot Street at Dodge Street, County Way, Longmeadow Road, Scott Street



EXISTING CONDITIONS

Cabot Street at Dodge Street, County Way, Longmeadow Road, Scott Street



EXISTING CONDITIONS

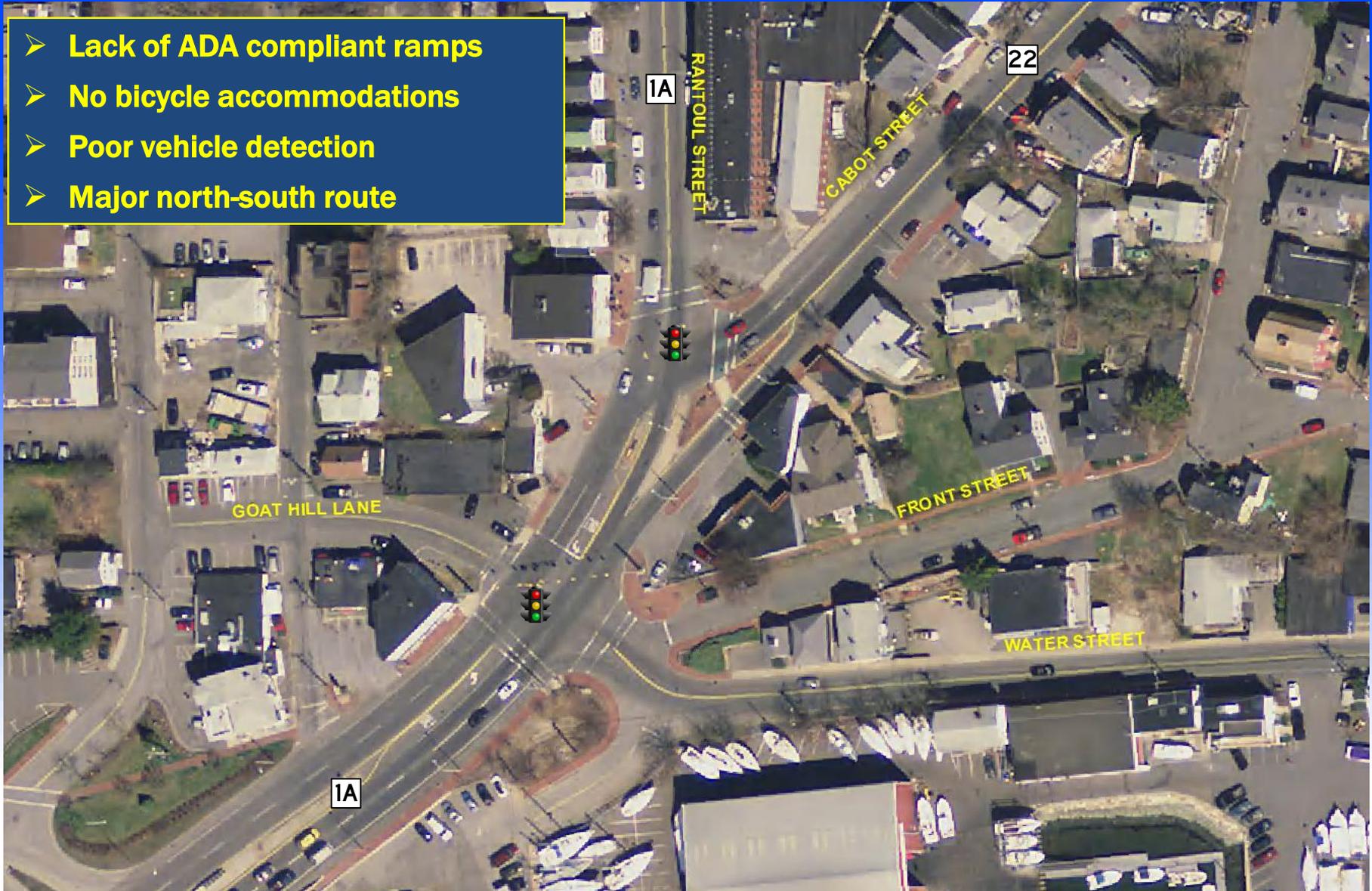
McKay Street at Balch Street



EXISTING CONDITIONS

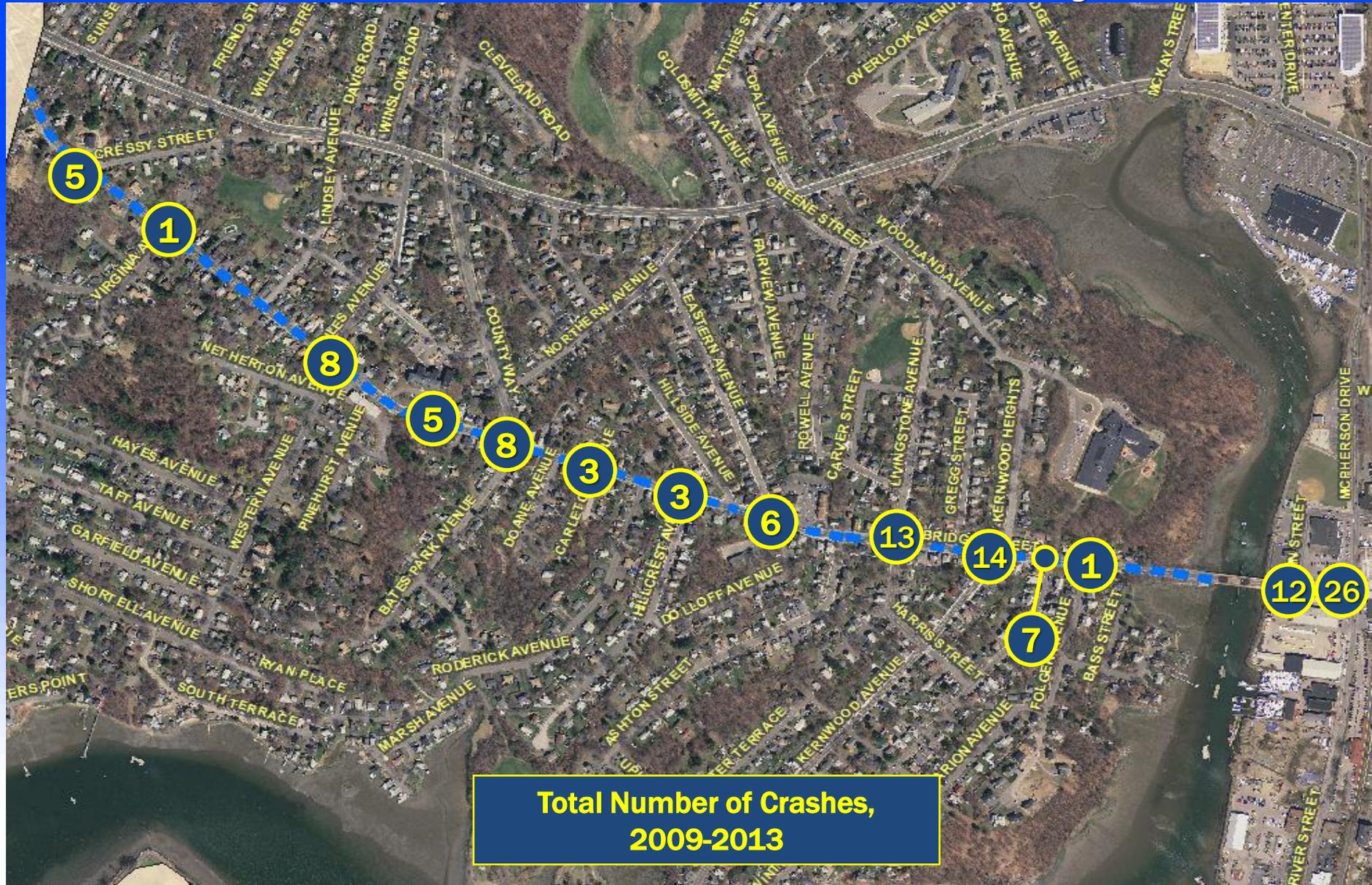
Cabot Street at Rantoul Street, Water Street, Front Street, Goat Hill Lane

- Lack of ADA compliant ramps
- No bicycle accommodations
- Poor vehicle detection
- Major north-south route



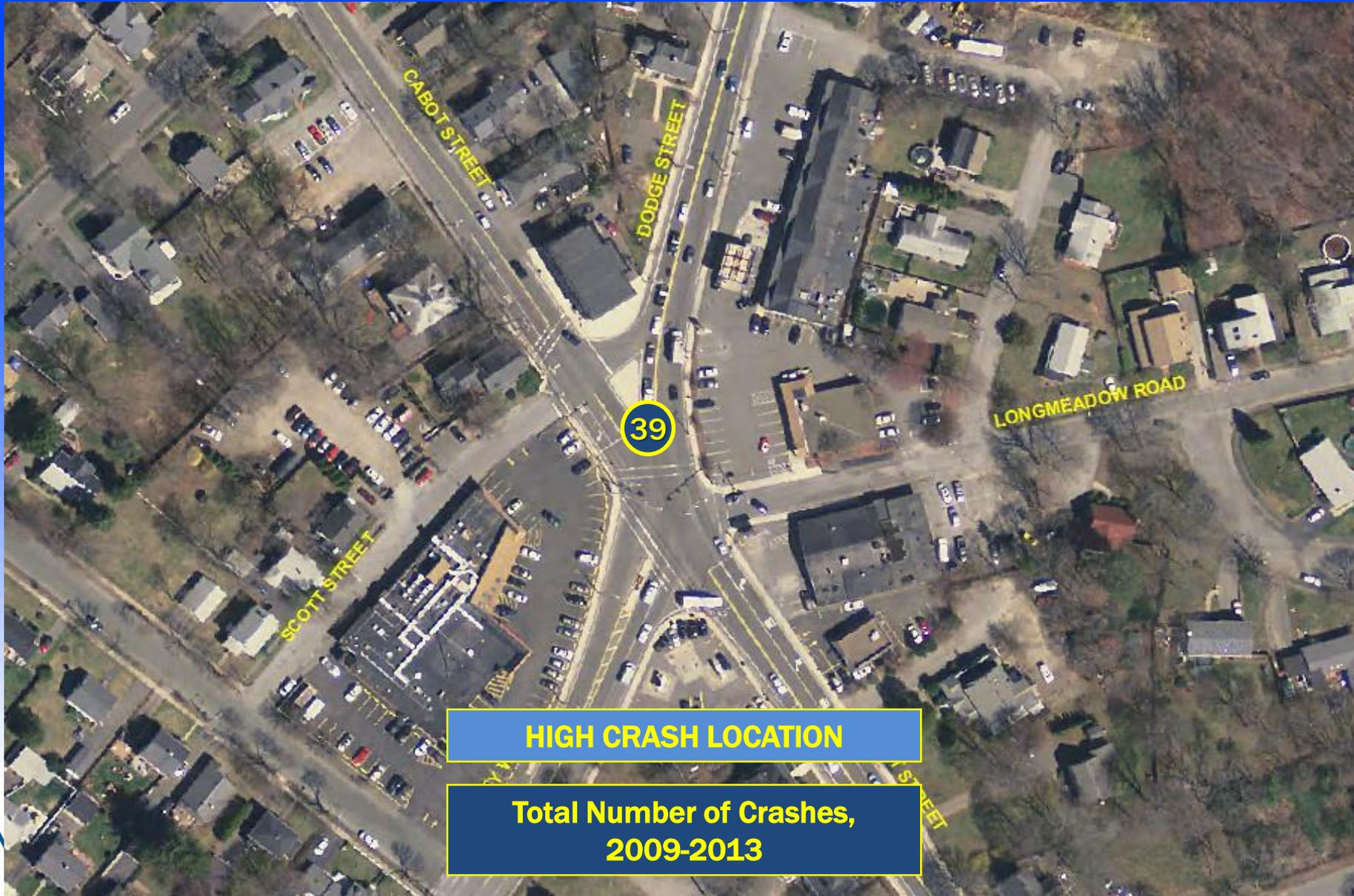
CRASH HISTORY

Bridge Street Corridor



CRASH HISTORY

Cabot Street at Dodge Street, County Way, Longmeadow Road, Scott Street

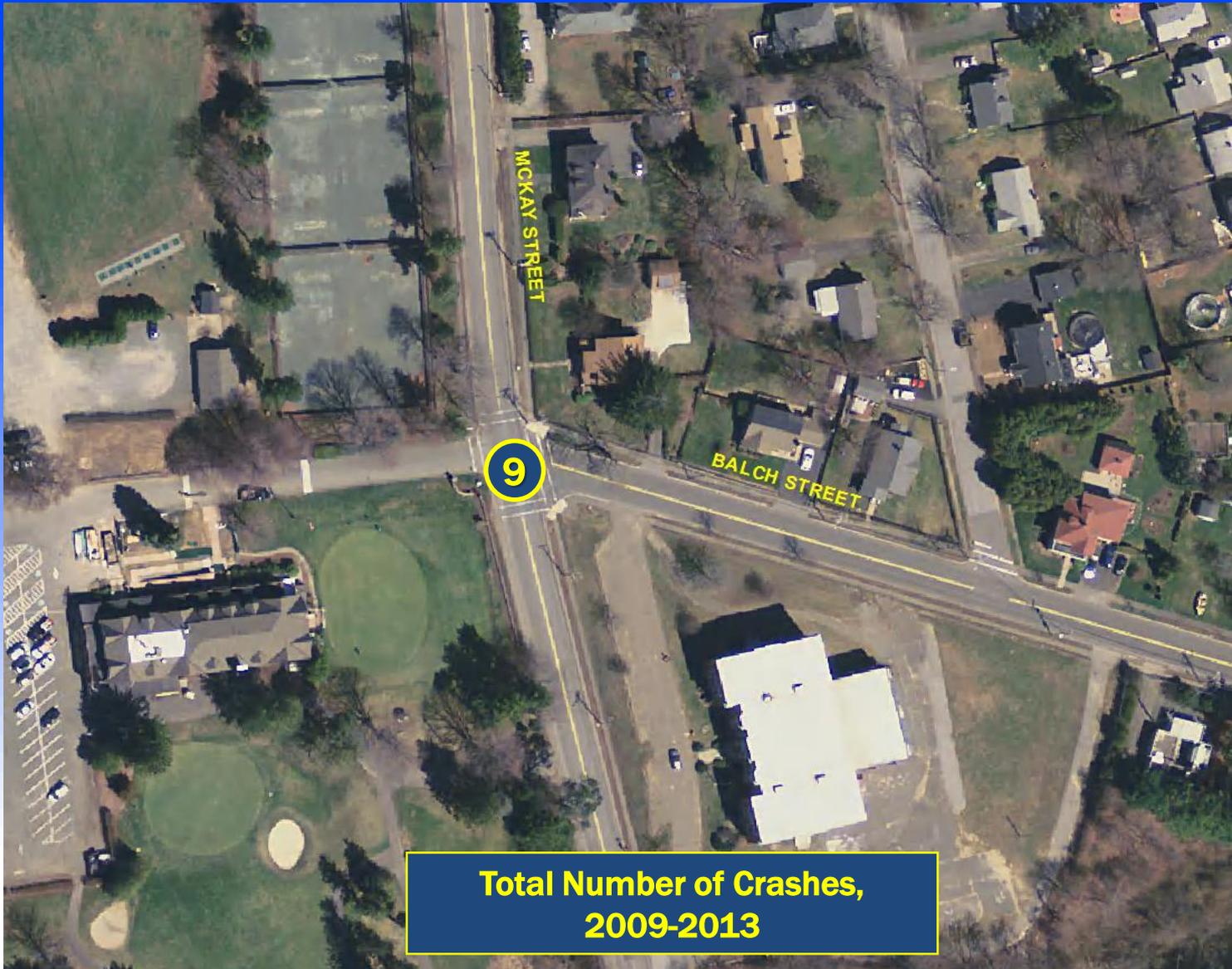


HIGH CRASH LOCATION

**Total Number of Crashes,
2009-2013**

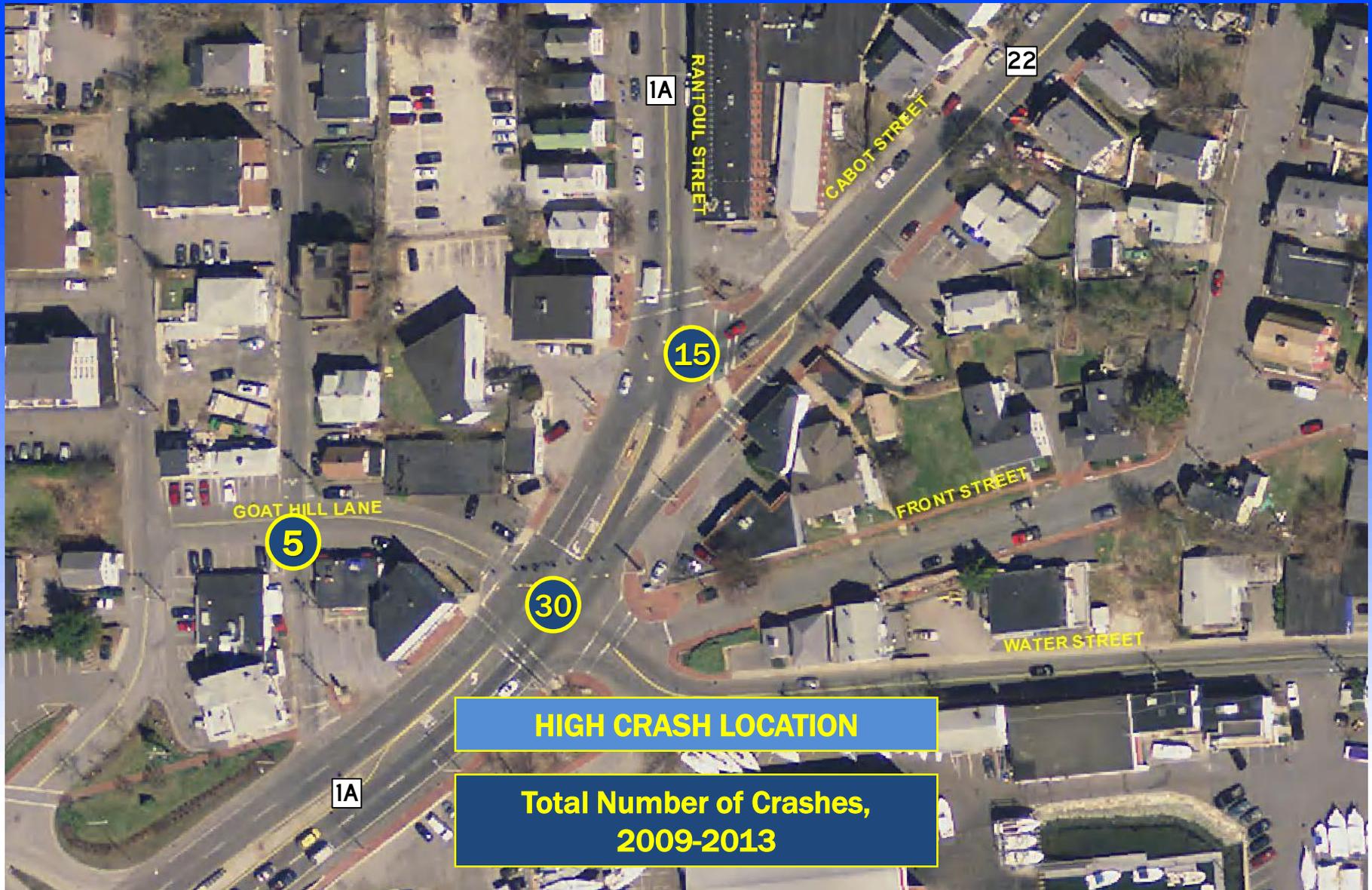
CRASH HISTORY

McKay Street at Balch Street



CRASH HISTORY

Cabot Street at Rantoul Street, Water Street, Front Street, Goat Hill Lane



PROJECT GOALS

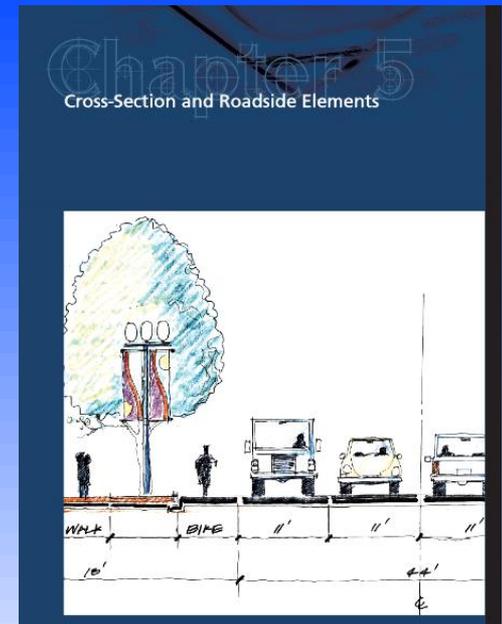
Complete Streets

MassDOT Project Development & Design Guide

“The careful selection of roadway cross-section elements...is needed to achieve a context-sensitive design that **accommodates all users safely**...The goals of selecting an appropriate roadway cross-section and the design of roadside elements are [to] develop a transportation infrastructure that provides **access for all**, a real **choice of modes**, and **safety in equal measure** for each mode of travel.



- Promote healthy transportation & livable communities
- Triple bicycling, transit, and walking mode share
- Use CMAQ funds to expand bicycle facilities



POTENTIAL IMPROVEMENTS

General Roadway and Signal Equipment Upgrades

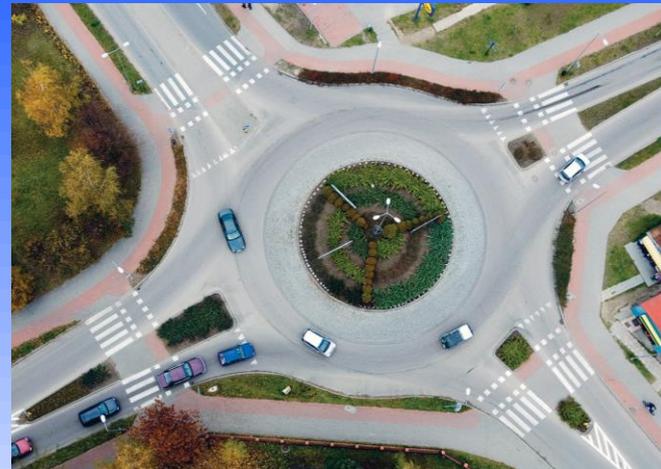
- Provide new pavement surface, sidewalks, and ramps
- Install Bicycle Lanes, Sharrows, Bike Boxes
- Signalization/Upgrade Existing Signal Equipment
- Improve bus stop locations
- Improve/shorten pedestrian crossings



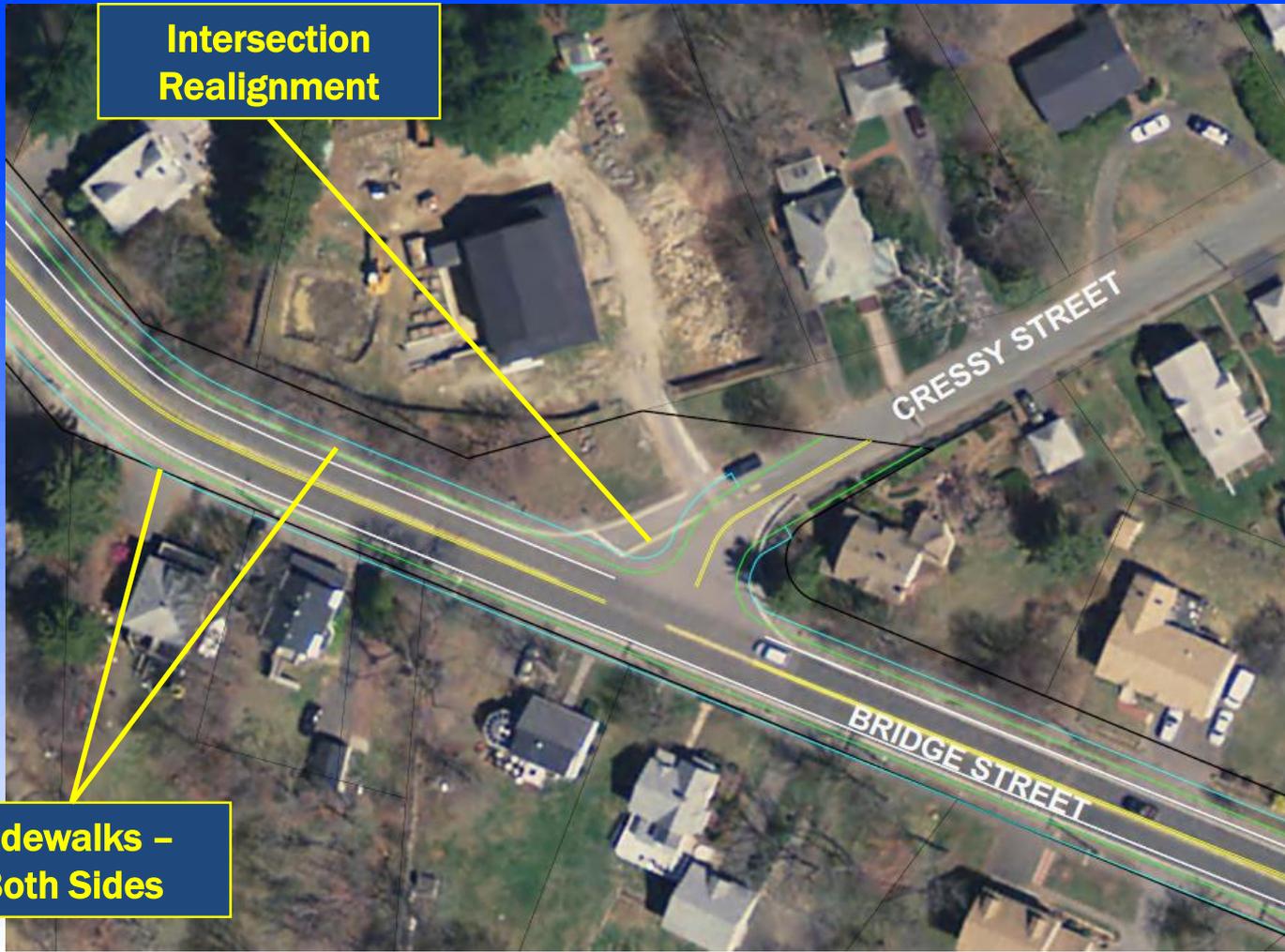
POTENTIAL IMPROVEMENTS

Traffic Calming / Traffic Control Measures

- Roundabouts
- Curb Extensions
- Raised Crosswalks/Intersections



POTENTIAL IMPROVEMENTS – Bridge Street Corridor



**Intersection
Realignment**

**Sidewalks –
Both Sides**

POTENTIAL IMPROVEMENTS – Bridge Street Corridor



POTENTIAL IMPROVEMENTS – Bridge Street Corridor



POTENTIAL IMPROVEMENTS – Bridge Street Corridor



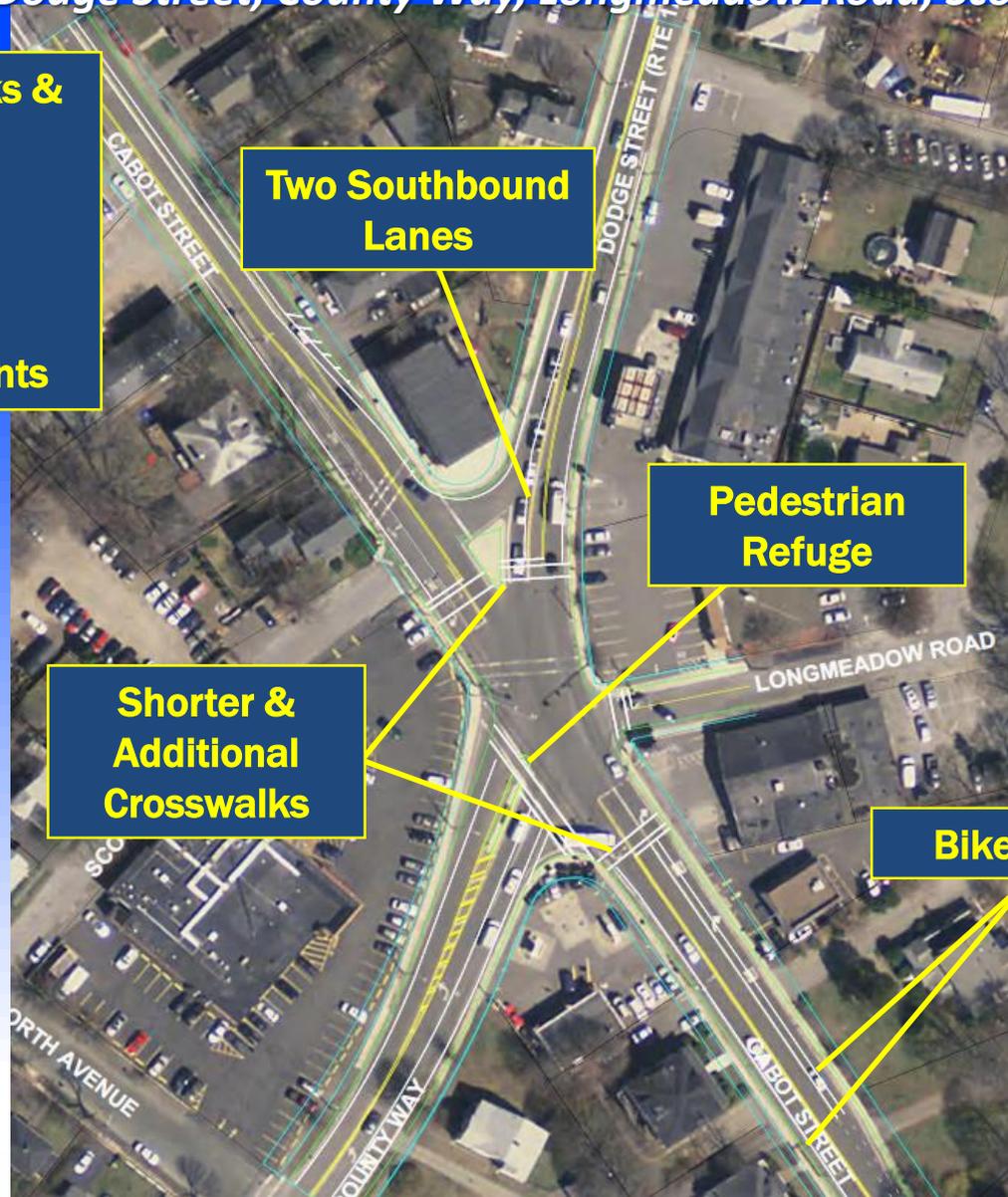
POTENTIAL IMPROVEMENTS – Bridge Street Corridor



POTENTIAL IMPROVEMENTS –

Cabot Street at Dodge Street, County Way, Longmeadow Road, Scott Street

- **Reconstruct Sidewalks & Ramps**
- **Upgrade Signal Equipment – Video Detection**
- **Drainage Improvements**



POTENTIAL IMPROVEMENTS

McKay Street at Balch Street

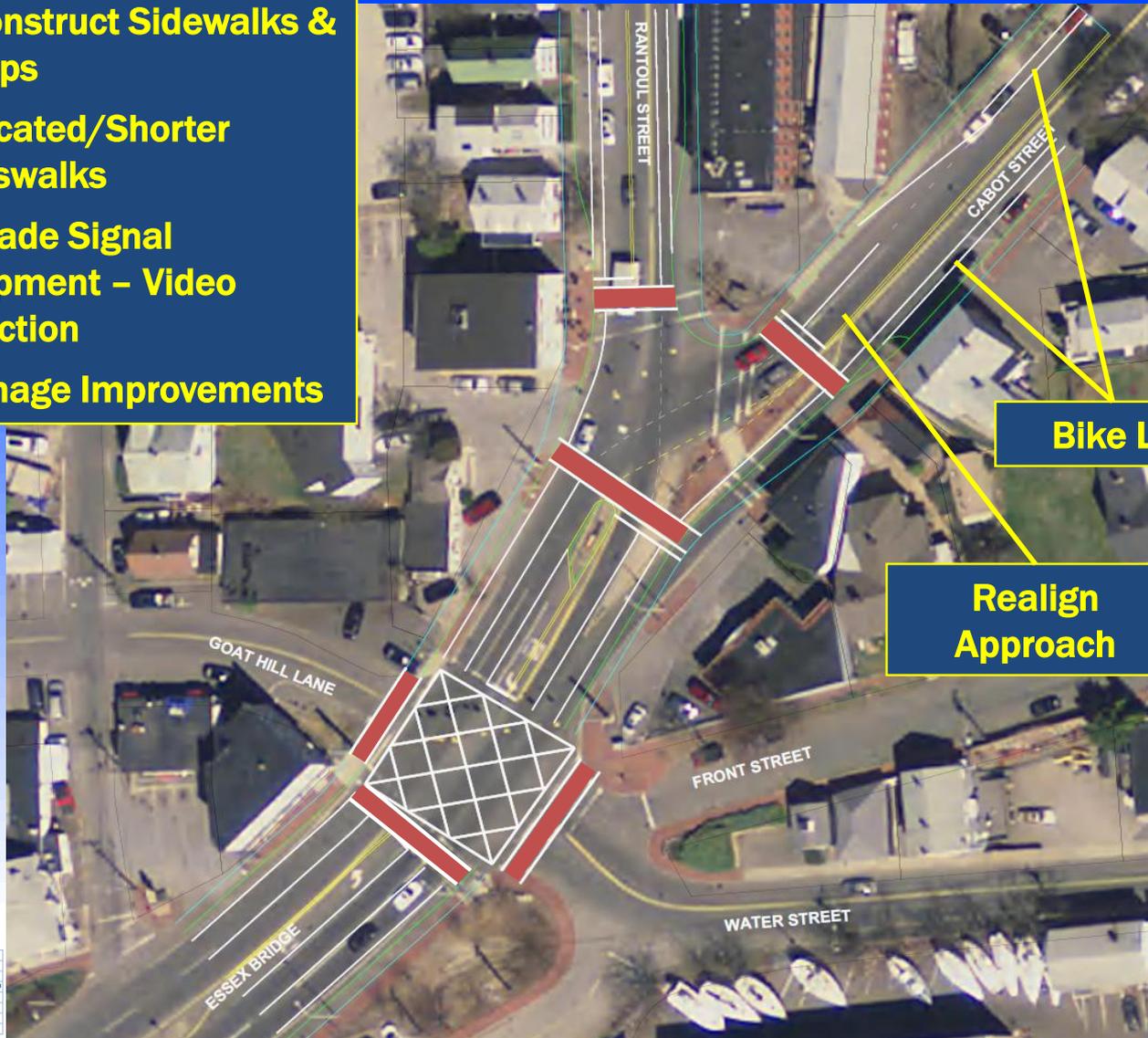
- **Signalization or Roundabout**
- **Reconstruct Sidewalks**



POTENTIAL IMPROVEMENTS

Cabot Street at Dodge Street, County Way, Longmeadow Road, Scott Street

- **Reconstruct Sidewalks & Ramps**
- **Relocated/Shorter Crosswalks**
- **Upgrade Signal Equipment – Video Detection**
- **Drainage Improvements**



NEXT STEPS

Current Phase

- Data Collection (September 24)
- Functional Design Reports, Project Initiation (October 8)
- MassDOT Review (November 5)
- Road Safety Audits (Scheduling)
- Conceptual Design

Next Phase

- Topographic Survey
- Preliminary (25%) Engineered Design
- Utility Coordination
- Construction Funding through TIP
- Final Design (75%/100%) and Bid Documents
- Project Award and Construction



QUESTIONS?

