



# Needham / Newton Corridor

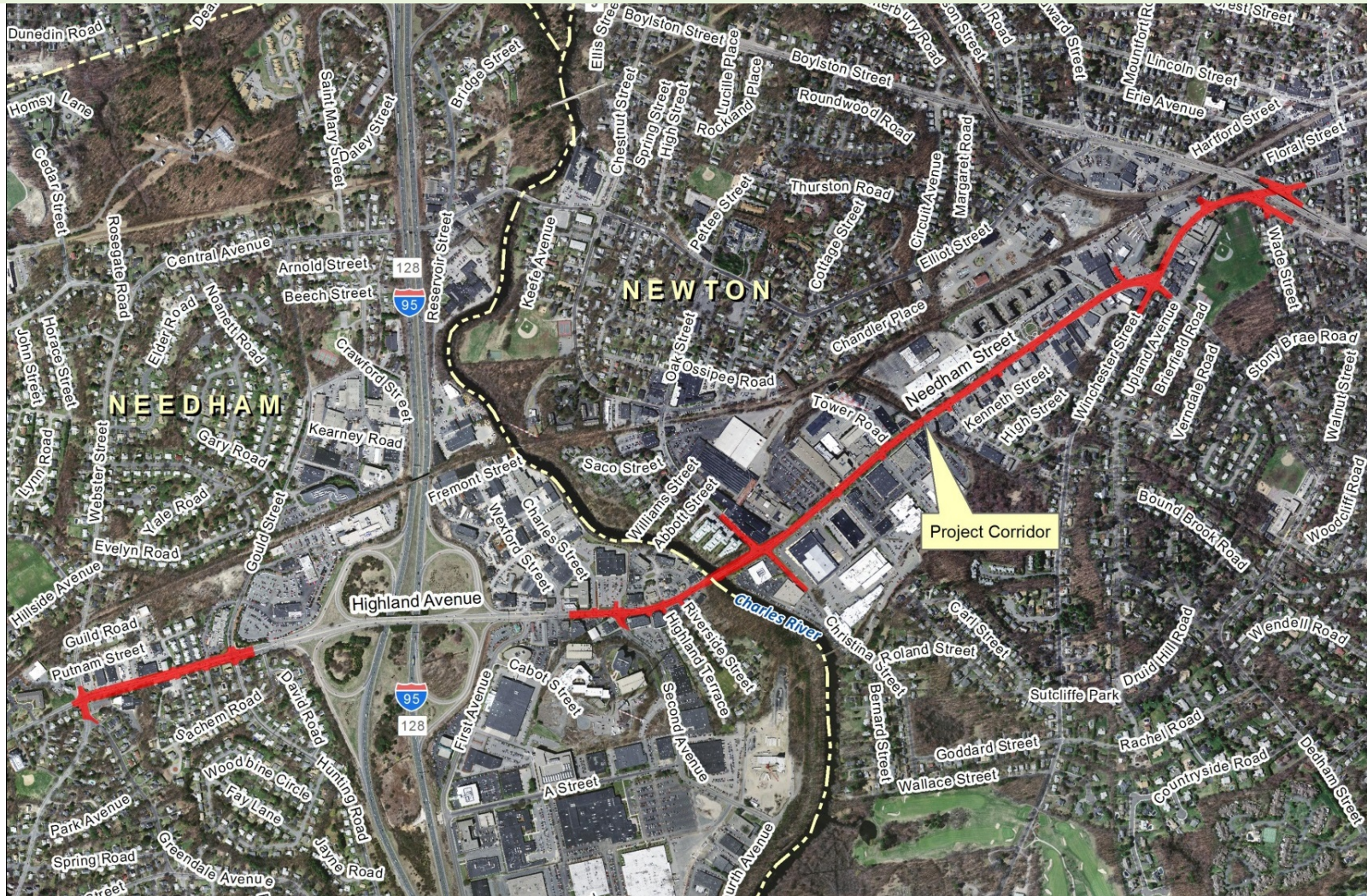
Project File No. 606635

Contract No.

**MassDOT Board  
Capital Programs Committee  
May 11, 2020**

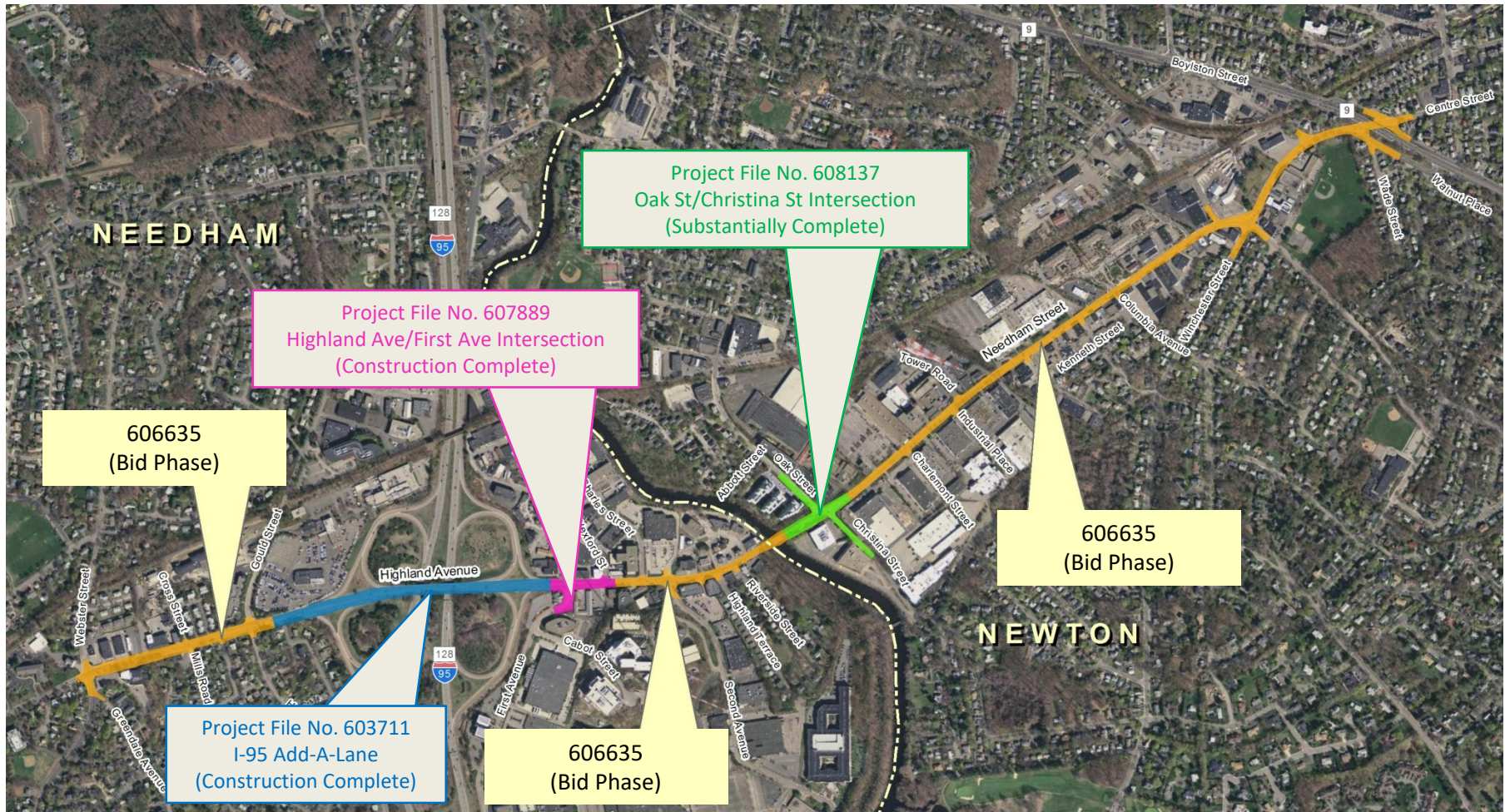


# Locus





# Adjacent Projects





# Project Goals

**Multimodal** Design Approach - Balance needs of **ALL** users

## To Improve Pedestrian Accommodations

- Continuous designated sidewalks
- Designated crosswalks



## To Provide Bicycle Accommodations

- 5 foot wide raised bike lane
- Shared use path connections



## To Improve Traffic Operations/ Safety

- Exclusive turn lanes, two-way left turn lanes
- Protected phasing at signals
- Reduce conflict points



## To Improve Transit

- Adjust locations to optimize service (Newton)





# Existing Conditions

- Urban Arterial
- Commercial and Residential Area
- Average Daily Traffic = 28,000 VPD
- Stone Arch Bridge (1875) - individually listed on the National Register of Historic Places
- Trail Connections
  - Charles River Reservation, Needham
  - Upper Falls Greenway, Newton
- MBTA Bus Routes 52 & 59
- Overhead Utility Wires on both sides of street





# Existing Deficiencies



Unmarked crossings



Undefined sidewalks



Wide driveway openings



Narrow shoulders  
No designated bike lane



Non-compliant  
crossings



Parking perpendicular  
to road



# Proposed Improvements

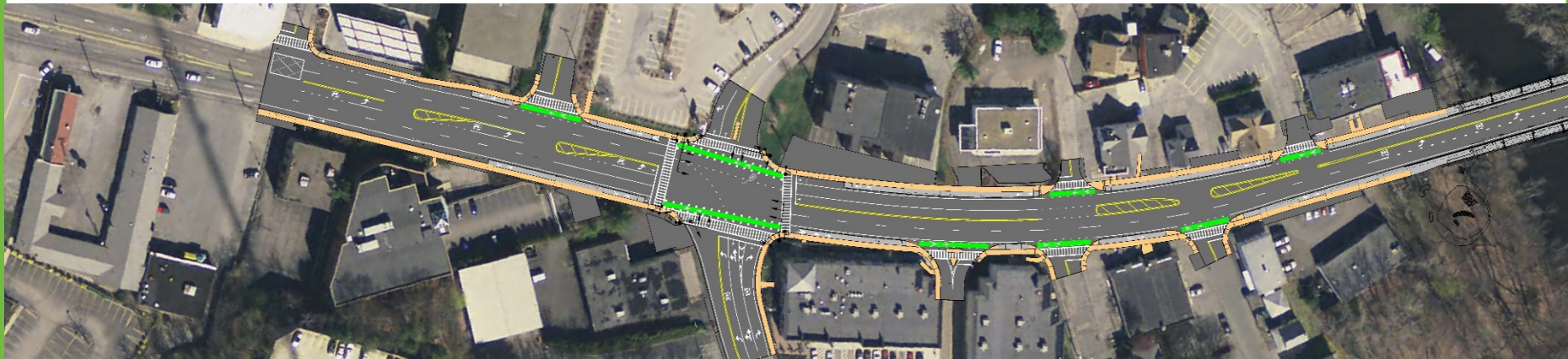
- 1.7 miles of Roadway Reconstruction
  - Roadway widening /
  - Full depth construction /
  - Mill & overlay
- Raised bike lane / sidewalk installation
- Shared Use Path for bikes and pedestrians
- Traffic signal replacements – 5 locations
- New traffic signal installation – 2 locations
- Installation of stormwater basin and infiltration trenches



# Proposed Improvements



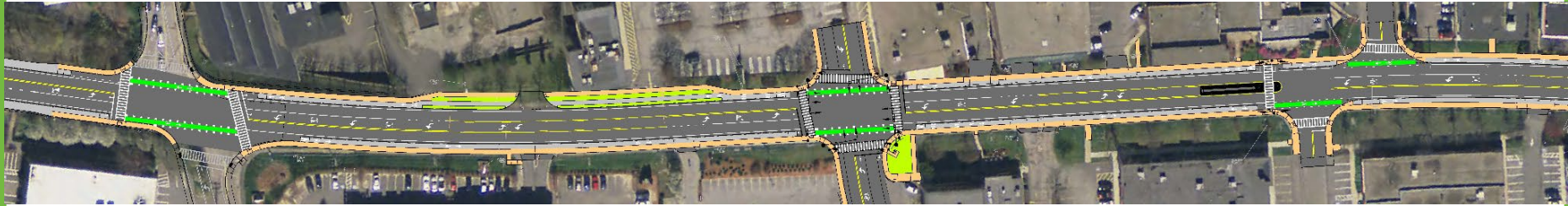
Highland Avenue (west of I-95) - Needham



Highland Avenue (east of I-95) - Needham



# Proposed Improvements



Needham Street - Newton



# Proposed Improvements



Winchester Street - Newton



# Proposed Improvements

Proposed  
Bridge  
Widening  
Rendering

street level





# Proposed Improvements

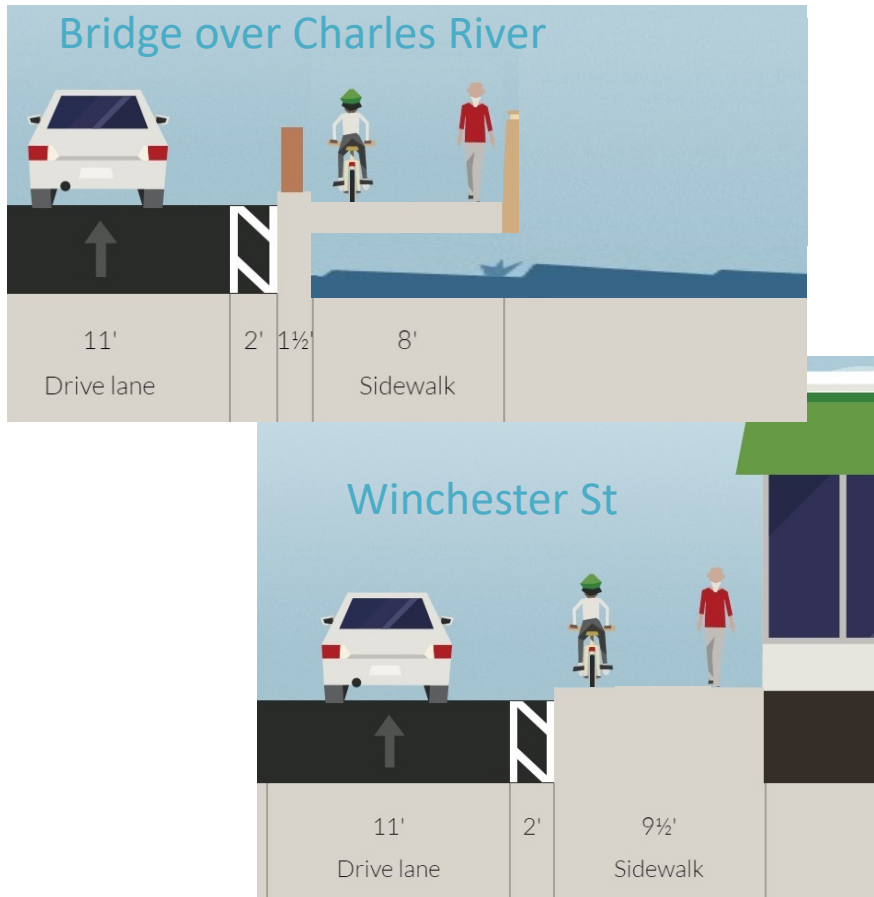
Proposed  
Bridge  
Widening  
Rendering

canoe level

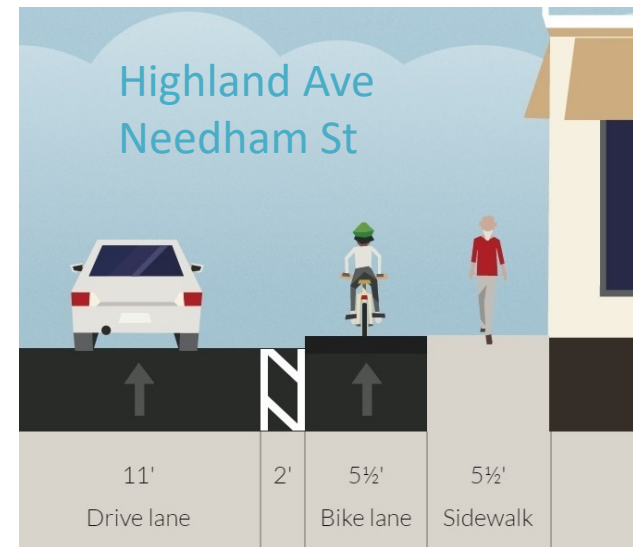




# Proposed Improvements



Shared Use Path  
(bikes & pedestrians)



Raised Bike Lane

Bike Lane  
Cross Section



# Public Outreach

There has been continuous coordination and discussion with both Communities throughout the design process.

- First Bike Accommodation Meeting in 2012
- 6 Public Informational Meetings (2013)
- First set of MassDOT Design Public Hearings (2014)
- Planning Board and Abutters meetings 2016
- Needham Newton Working Group Meetings 2017
- Needham Newton Regional Chamber (2018)
- Second Set of MassDOT Design Public Hearings (2018)



# Project Schedule

Advertised  
September 2019

Bid Opening  
April 2020

Construction Starts  
Summer 2020

Construction Completed  
Fall 2023





# Bid/Estimate Comparison

Contractor	Bid	Difference from Office Estimate (%)
Office Estimate	\$22,388,382.70	--
P GIOIOSO & SONS INC	\$26,205,992.00	17.1%
E T & L CORP	\$27,967,107.00	24.9%
J H LYNCH & SONS INC	\$30,734,191.25	37.3%
Average Bid	\$28,302,430.08	26.4%



# Project Value

STIP Amount	\$29,601,436
Bid Amount	\$26,205,992
Traffic Police	\$1,000,000
Contingencies (10%)	\$2,620,599
Construction Eng (5%)	\$1,310,300
Total	\$31,136,891



**Thank  
You**



**Q&A**

A photograph of a wide, paved road corridor with a concrete sidewalk on the left and a black metal railing. The road has yellow double lines and white dashed lines. In the background, there are trees and buildings under a clear sky.

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