



Town of Lynnfield
Lynnfield Rail Trail

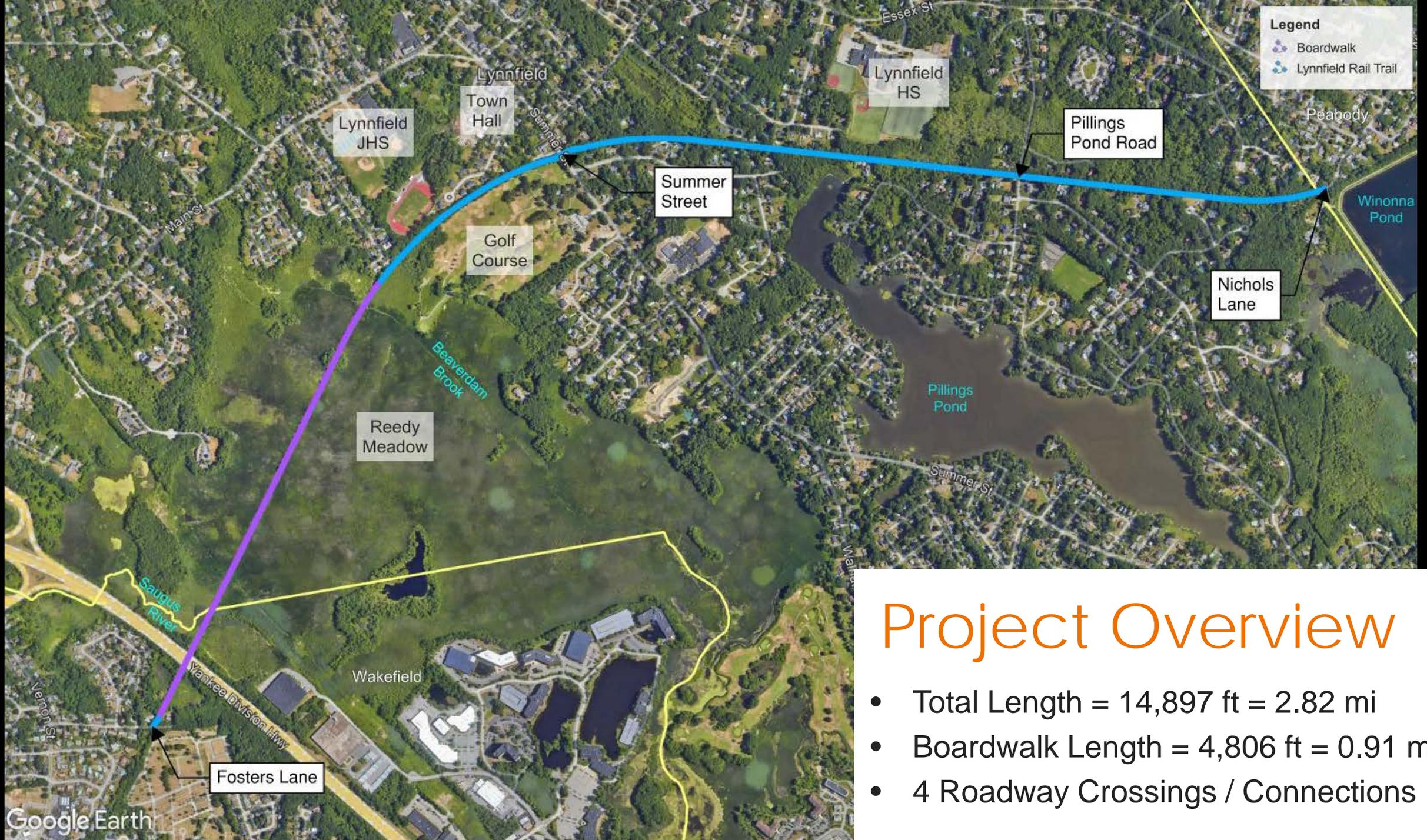
Project Update
January 30, 2024





Agenda

1. Project Overview
2. FEMA Map Update
3. Boardwalk Design Update
4. Trail Design Update
5. Encroachments and ROW
6. MassDOT and TIP Process
7. Next Steps



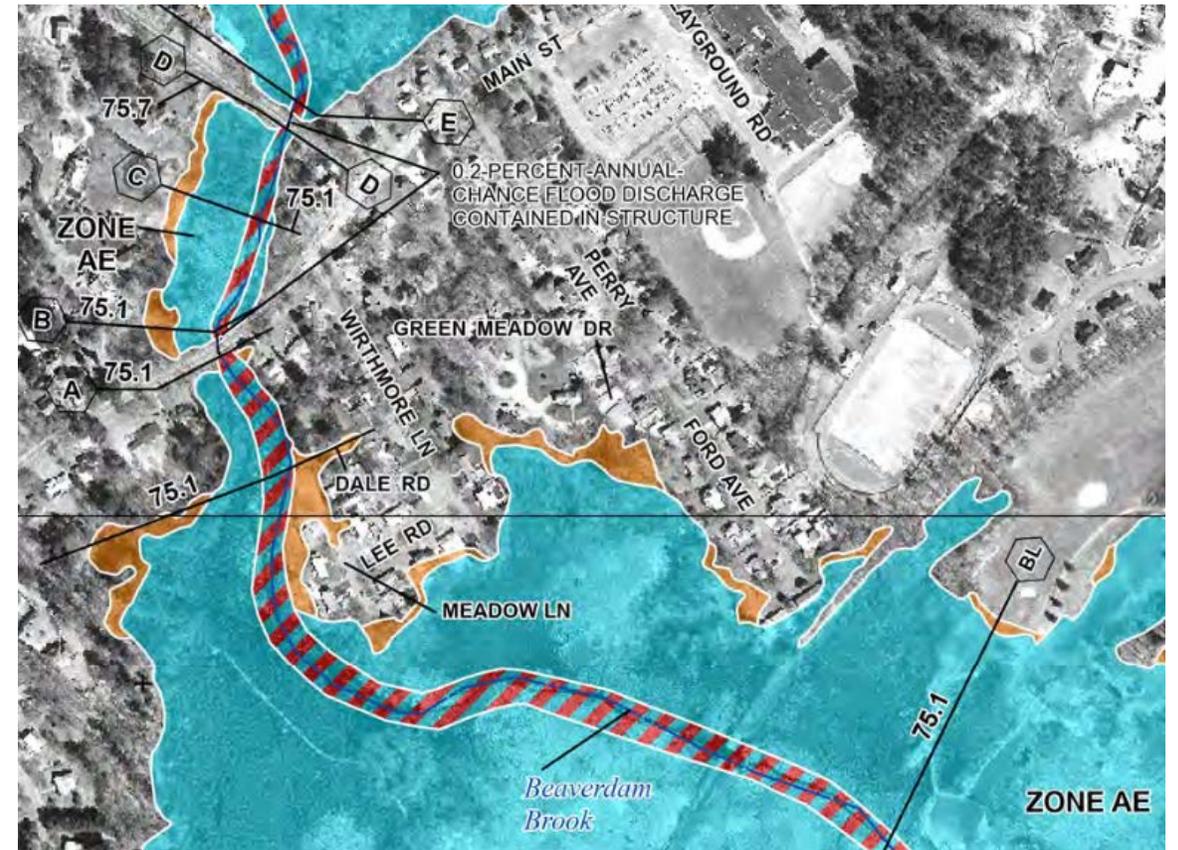
Project Overview

- Total Length = 14,897 ft = 2.82 mi
- Boardwalk Length = 4,806 ft = 0.91 mi
- 4 Roadway Crossings / Connections

Floodplain and Floodway

FEMA Map
Update

- Preliminary Maps Released by FEMA in May 2023
- Floodplain Elevation increased from 73' to 75.1'
- Floodway present at Saugus River and Beaverdam Brook (EL 76.1)
- Boardwalk Design based on Floodway Elevation
- Additional Hydraulic Analysis required to Confirm Boardwalk Design



FEMA Design Implications

FEMA Map
Update

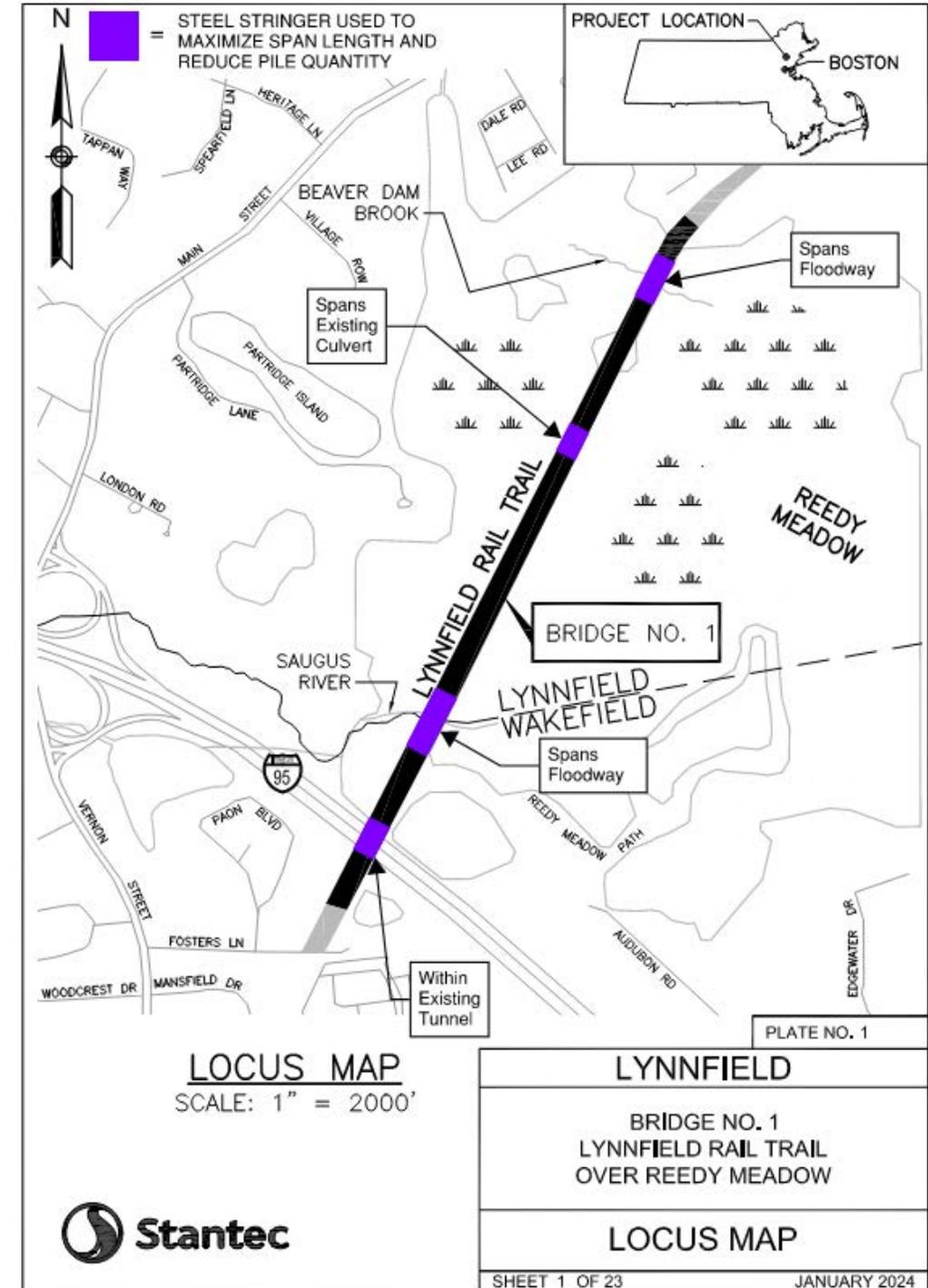
- Added 310' of Boardwalk through I-95 Underpass
 - Able to reduce boardwalk overall by 234' from prior design
- Evaluated building trail at-grade:
 - At-grade would exceed wetland impact threshold
 - At-grade would either significantly impact floodplain or flood periodically
 - MassDOT was not receptive to this approach due to climate resiliency



Boardwalk Design

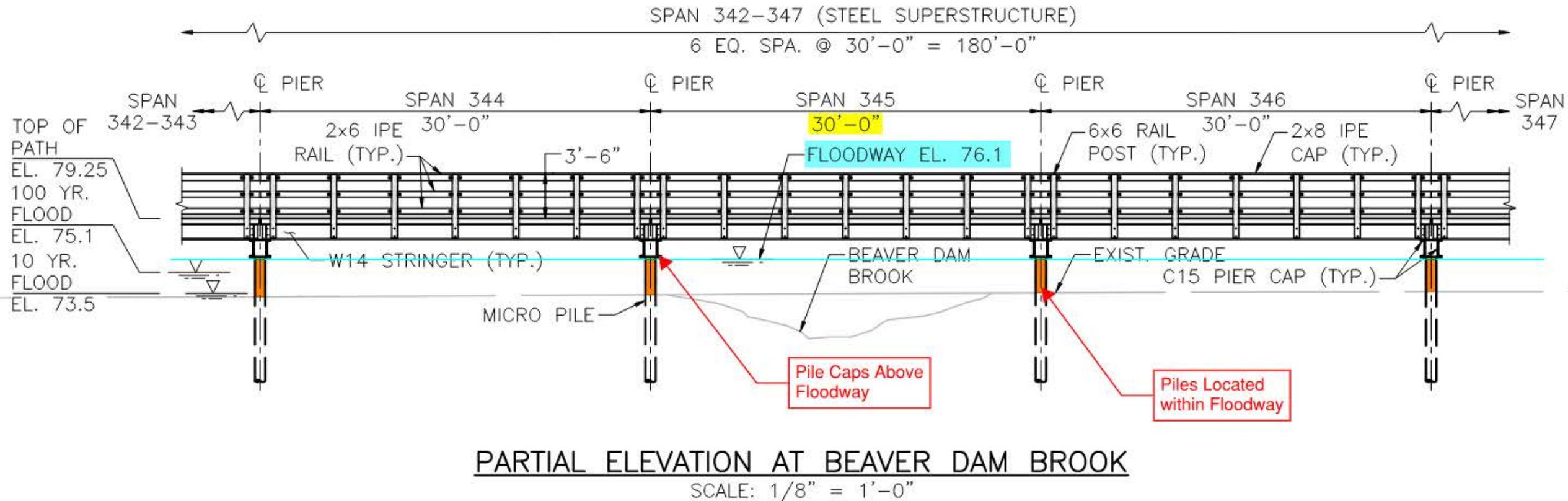
Boardwalk Design Update

- Boardwalk Elevation set at 79.25, above Floodway
- Evaluated:
 - Steel Stringer
 - Timber Stringer
 - Combination Steel and Timber Stringer (Preferred)
- Bridge Type Selection Submitted on 1/26/2023



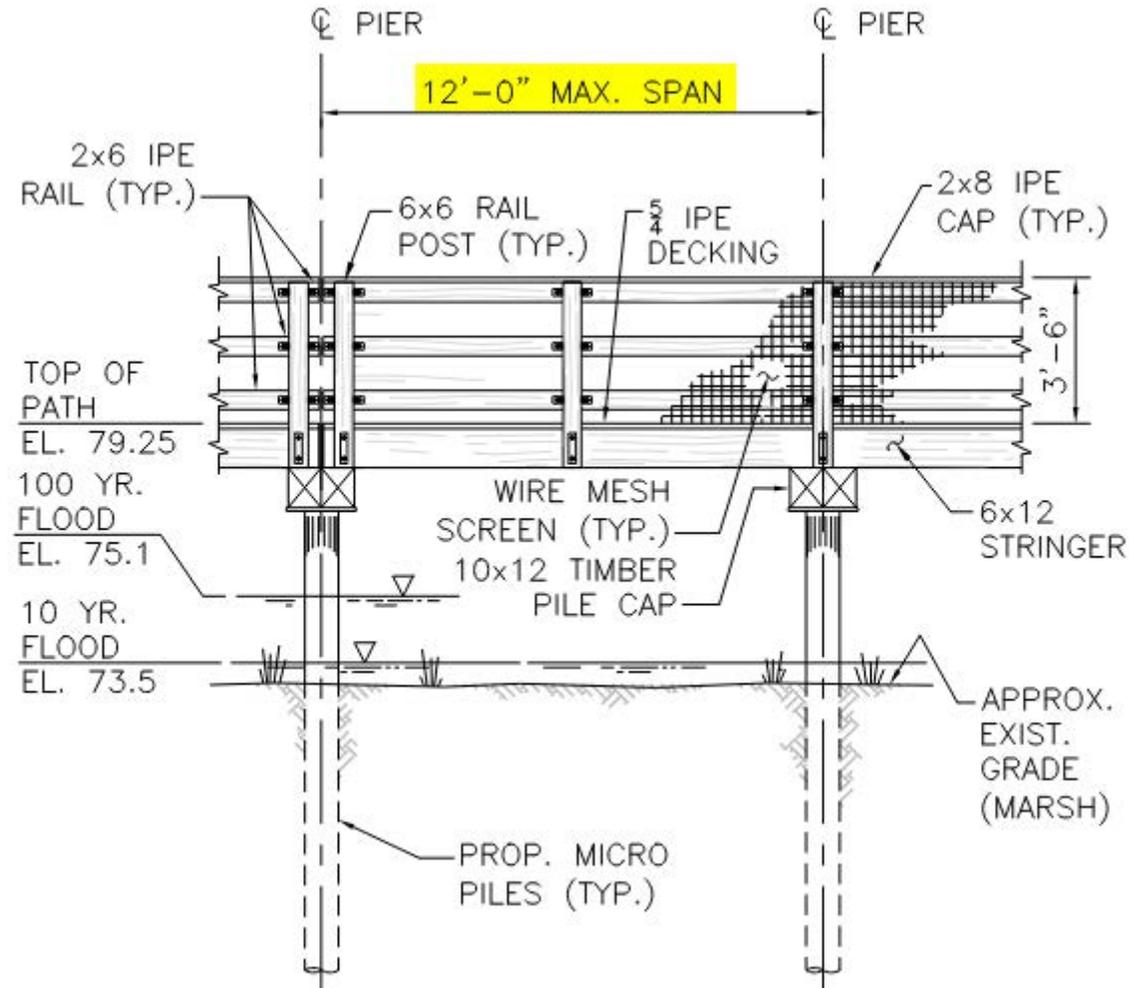
Boardwalk Profile at Floodway

Boardwalk
Design Update



Boardwalk Profile Outside of Floodway

Boardwalk
Design Update



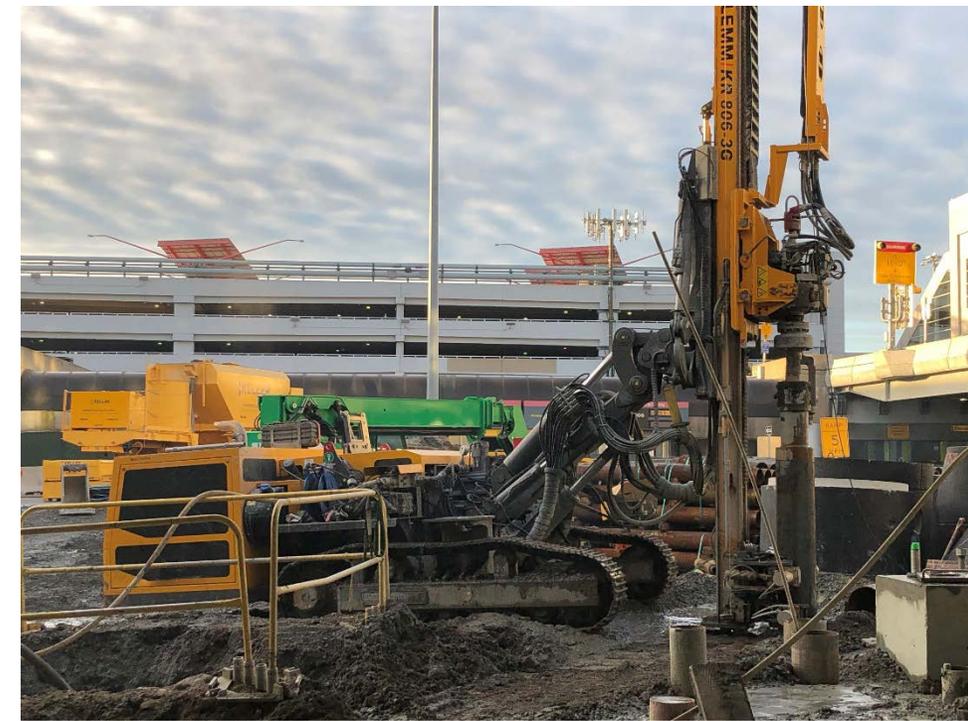
**TYPICAL ELEVATION
TIMBER
SUPERSTRUCTURE**

SCALE: 1/4" = 1'-0"

Micropile Installation

Boardwalk
Design Update

- Micropiles used across all bridge alternatives
- Smaller installation equipment, ideal in confined areas
- Small dia. pipes (5"-12") drilled and filled with concrete and reinforcing



Steel Stringer Example

Boardwalk
Design Update



Timber Stringer Example

Boardwalk
Design Update



Future Considerations

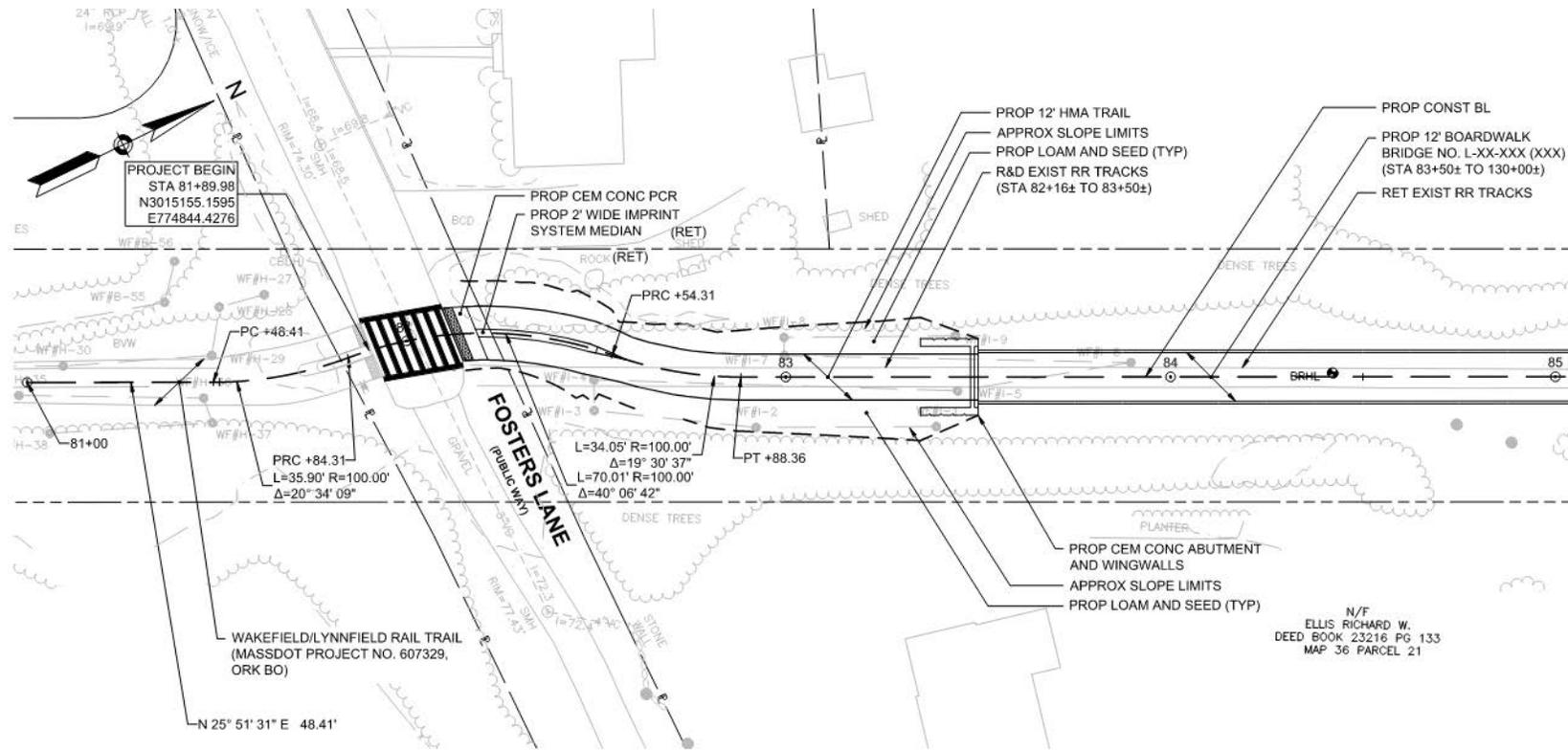
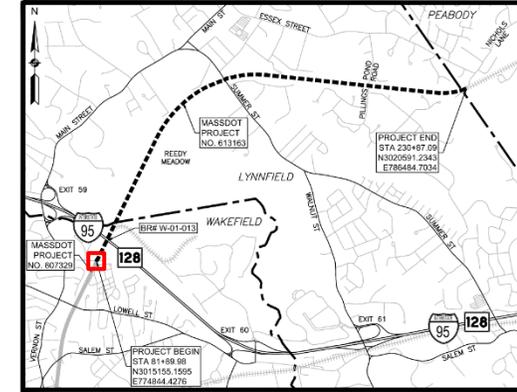
Boardwalk
Design Update

- Include Overlooks / Bump-Outs on Boardwalk for Wildlife Observation
- Collection of Geotech Information
- Completion of Hydraulic+ Geotechnical Report



Fosters Lane Crossing

Trail Design Update

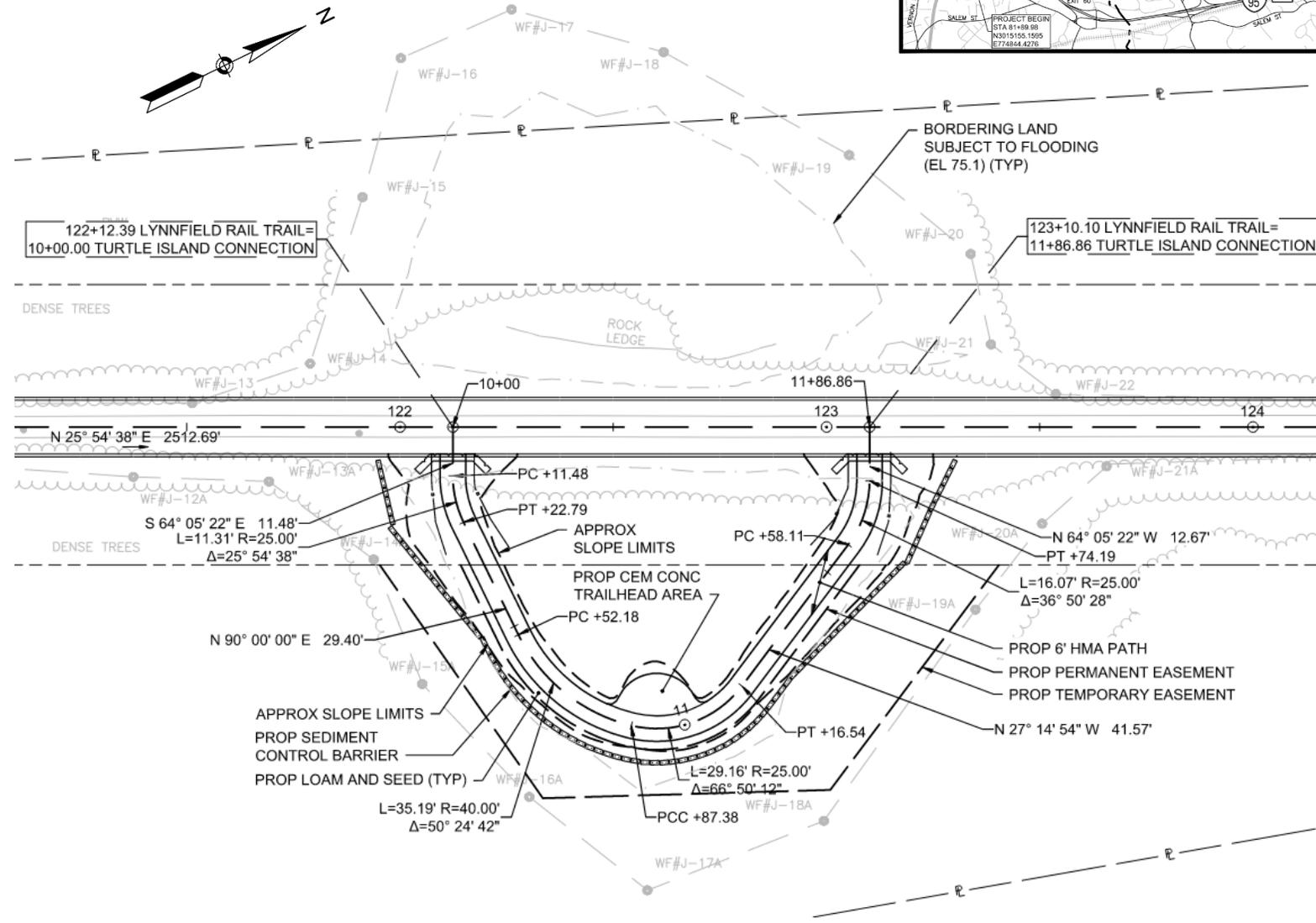
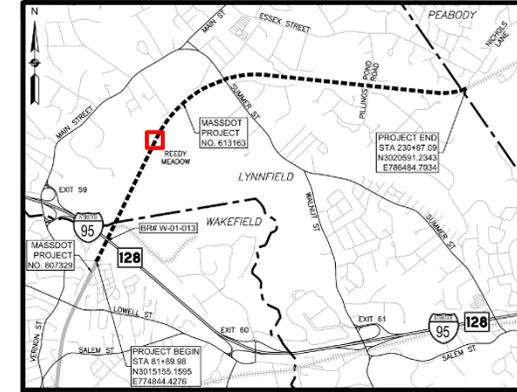


- Beginning of Path
- Crossing of Fosters Ln to Connect to Wakefield
- Signs and Pavement Markings
- Boardwalk Starts ~150' from Roadway at Wetland Limit

N/F
ELLIS RICHARD W.
DEED BOOK 23216 PG 133
MAP 36 PARCEL 21

Turtle Island Connection

Trail Design Update

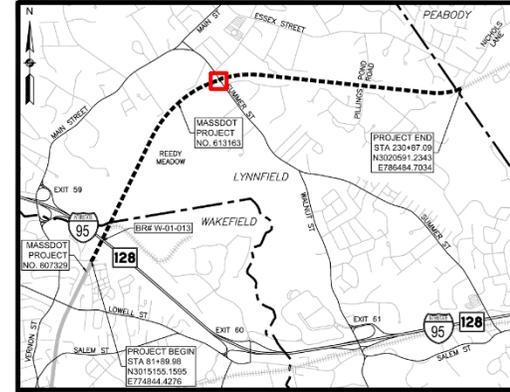
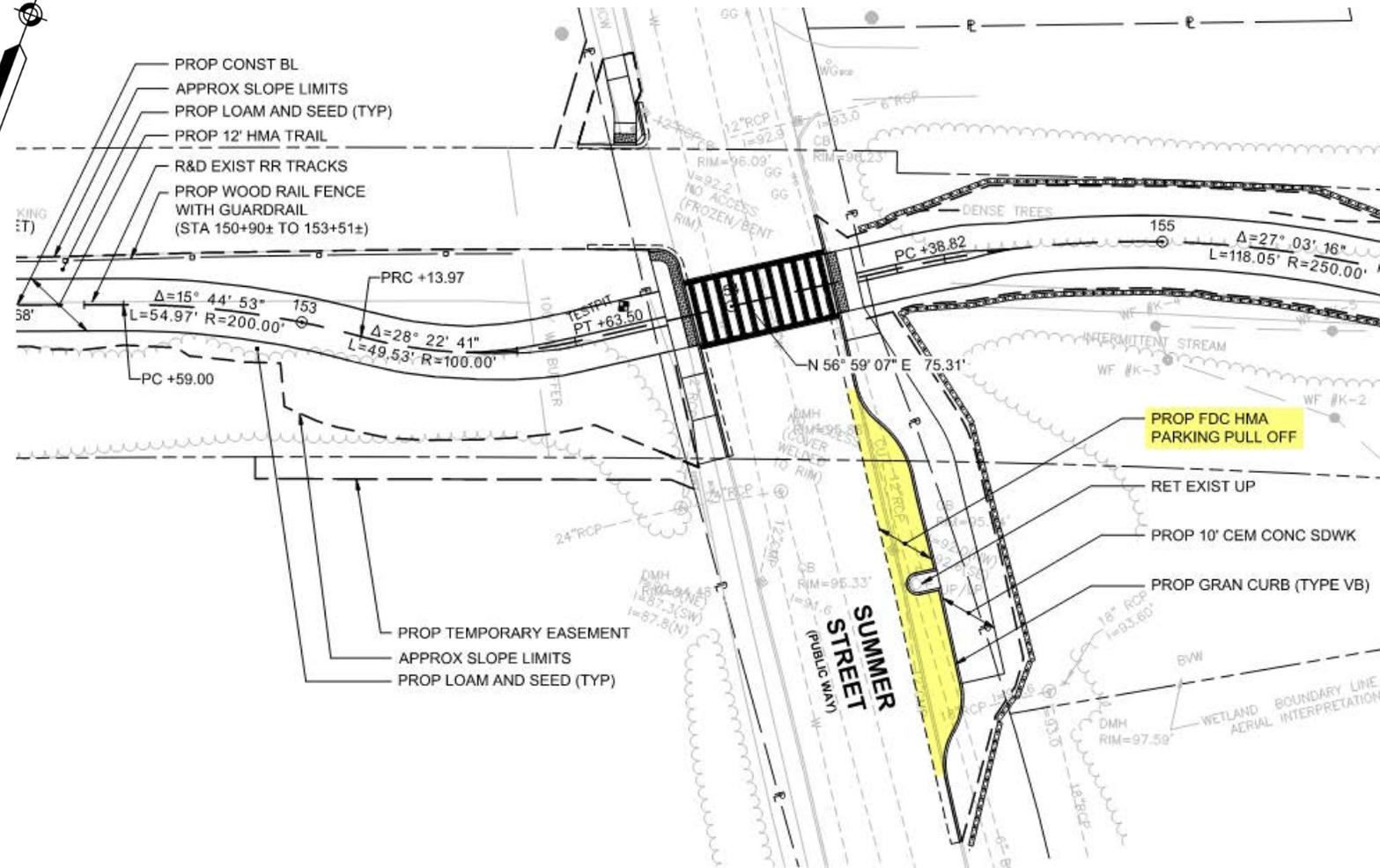


- Path Connection along East side of Turtle Island
- 6-ft Wide Loop Walkway
- Area for Seating or Kiosk

Summer Street Crossing

Trail Design Update

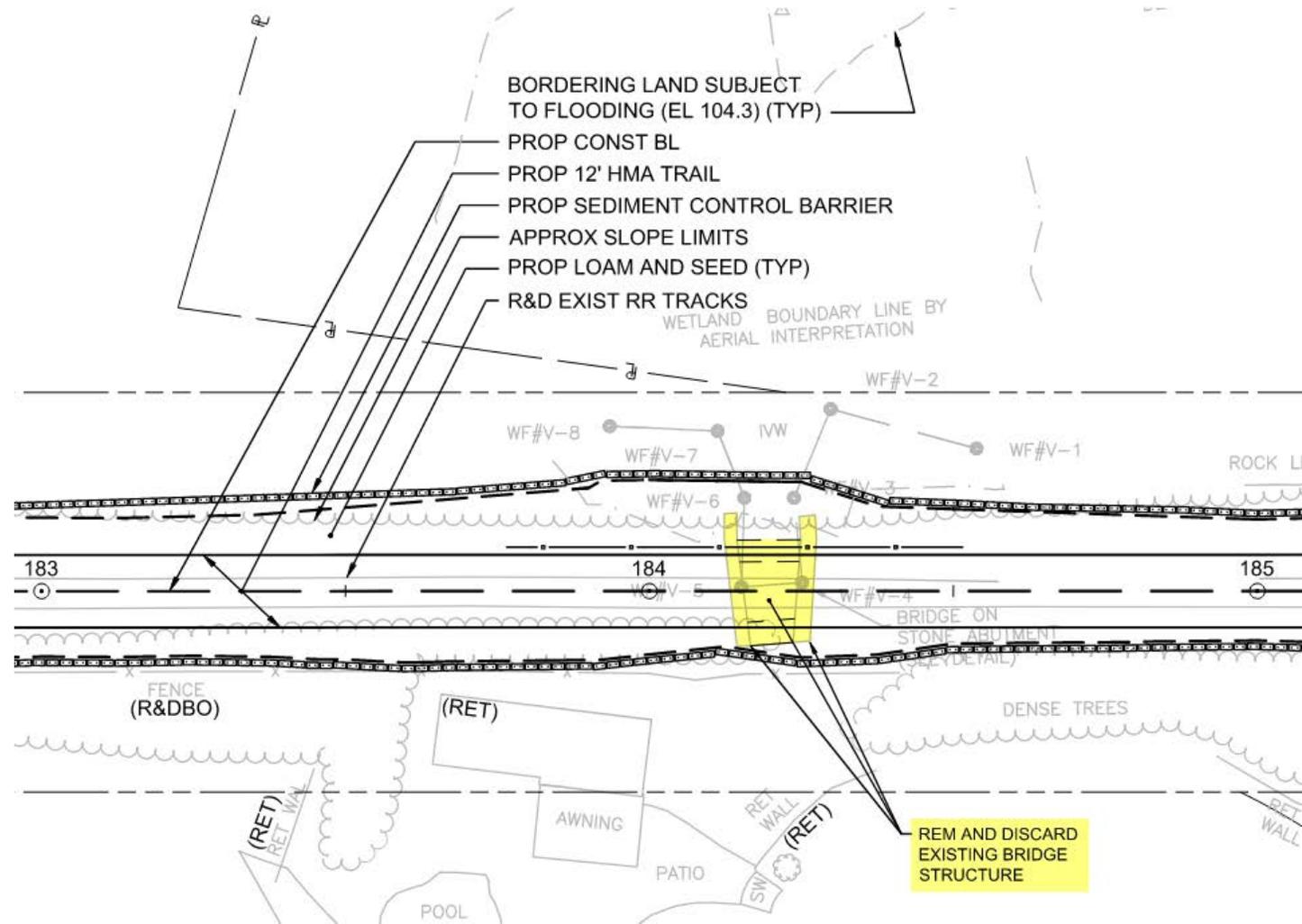
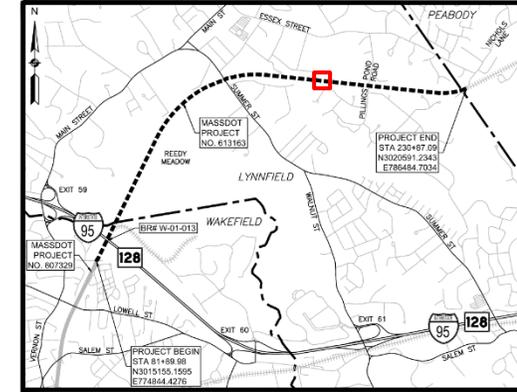
- Revised alignment to gain offset to church driveway
- Rectangular Rapid Flashing Beacon
- Signs and Pavement Markings
- New Wheelchair Ramps both Sides of Street
- Parking Pull-Off for 2 Cars, marked for Handicap Access



Cattle Crossing Structure

Trail Design Update

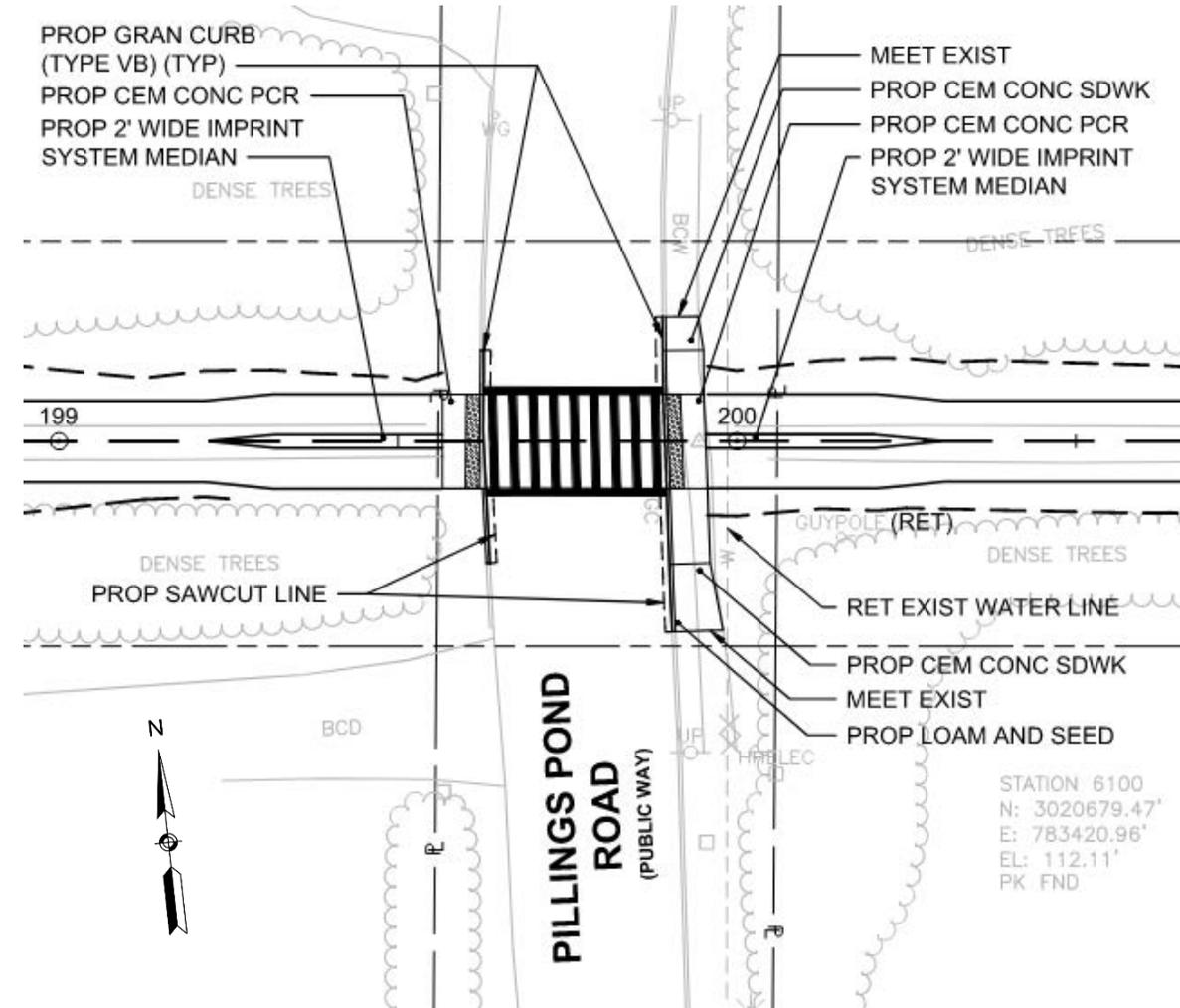
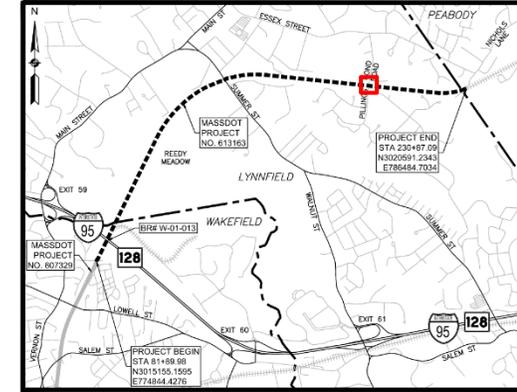
- Former Railroad Structure no Longer Serves its Purpose
- Structure will be Removed and Filled In



Pillings Pond Road Crossing

Trail Design
Update

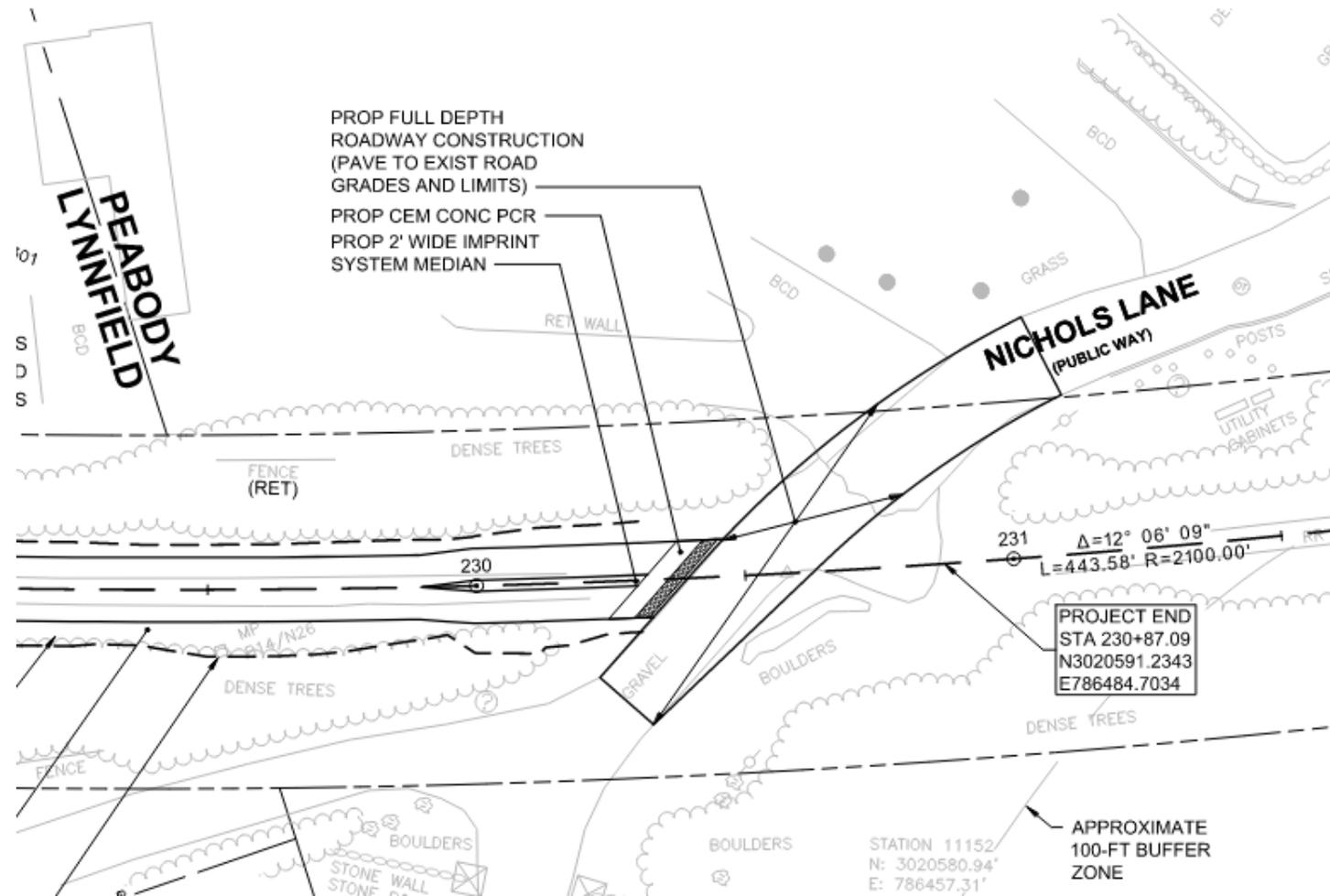
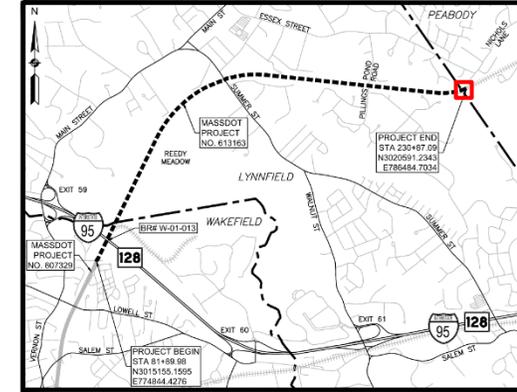
- New Wheelchair Ramps both Sides of Street
- Signs and Pavement Markings
- Evaluate Sight Distance at the Crossing



Nichols Lane Connection

Trail Design
Update

- End of Path
- Path Extended from Town Line to Nichols Lane
- Paving a Section of Nichols Lane that is Currently Gravel



Future Considerations

Trail Design
Update

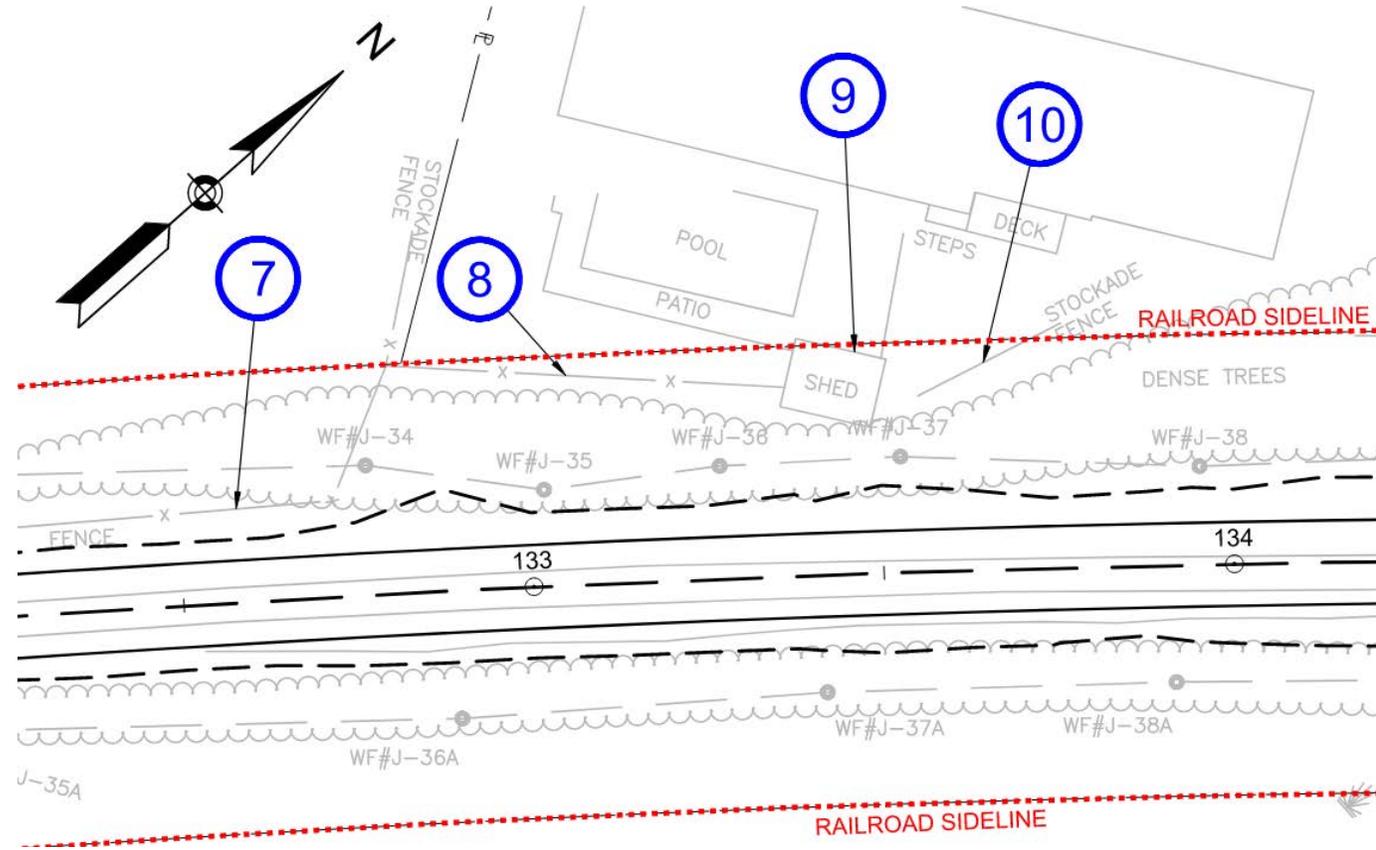
- Connections to Middle School and High School
- Finalize design of parking on Summer Street
- Evaluate Crossing Treatments at Pillings Pond Road



Trail Encroachments

Encroachments and ROW

- MassDOT will require encroachments removed or licensed
- Encroachments have been identified in a table and corresponding plan
- 37 Encroachments have been ID'd on 21 different properties so far
- Coordination meeting needed with MassDOT ROW



PROJECT FILE NO. 613163 LYNNFIELD RAIL TRAIL - WAKEFIELD, LYNNFIELD, & PEABODY - LIST OF CORRIDOR ENCROACHMENTS

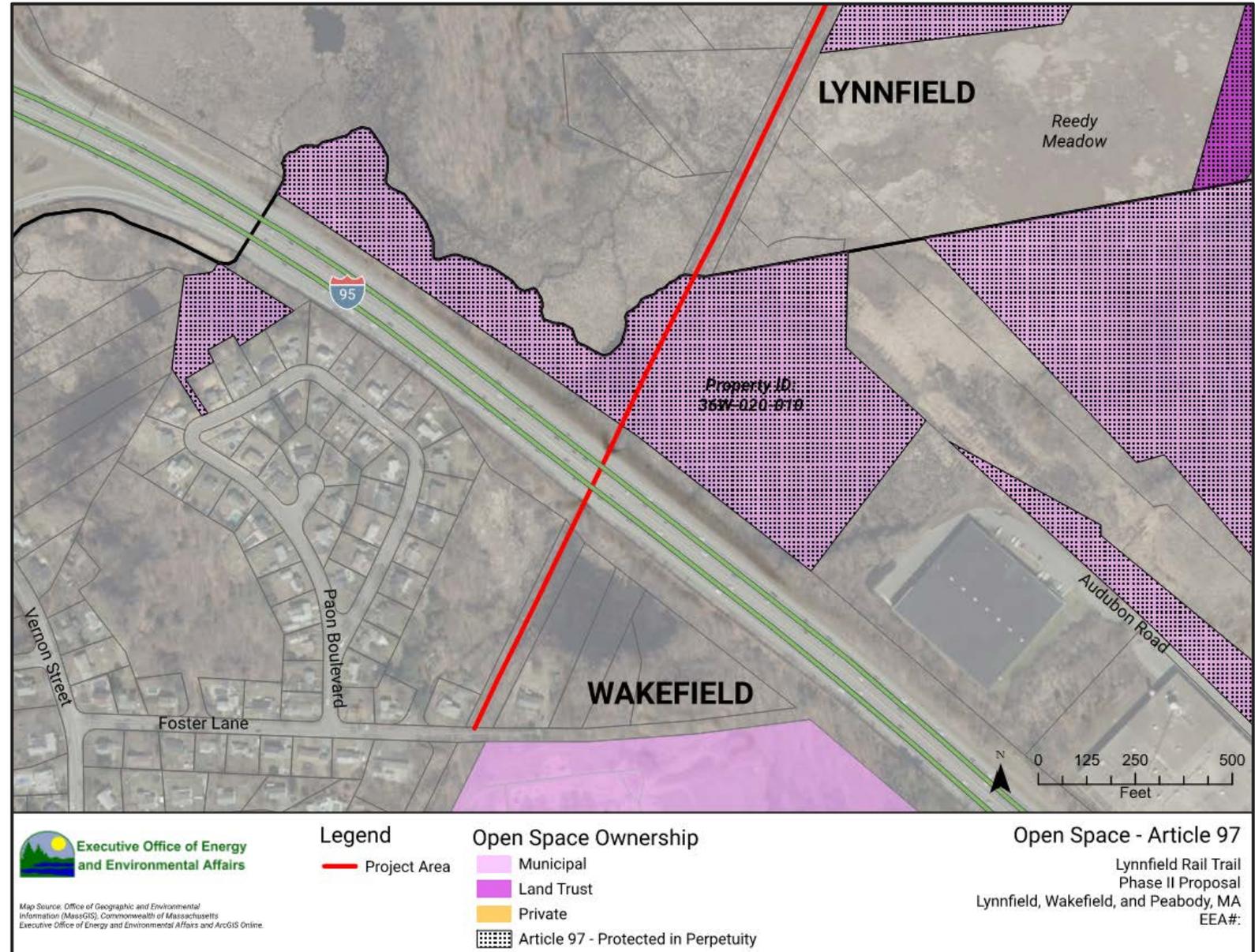
REV. DATED 11/1/2023

ENCROACHMENT NO.	PROPERTY OWNER	BOOK	PAGE	PROPERTY LOCATION INFORMATION	RR BL OFFSET	ENCROACHMENT TYPE	ADDITIONAL NOTES	IMPACT W/PROPOSED TRAIL	EXISTING EASEMENT	ENCROACHMENT DISPOSITION
				PROPERTY ADDRESS						
7	CARD DANIEL M, T/E CARD TERI L BOTICELLI, T/E	36370	584	3 FORD AVENUE	LEFT	FENCING		RETAINING WALL	NOT ANTICIPATED	TBD
8	MCQUEEN PHILIP J., T/E MCQUEEN DEANNA M., T/E	27917	562	1 FORD AVENUE	LEFT	FENCING		NONE	NOT ANTICIPATED	TBD
9	MCQUEEN PHILIP J., T/E MCQUEEN DEANNA M., T/E	27917	562	1 FORD AVENUE	LEFT	SHED		NONE	NOT ANTICIPATED	TBD
10	MCQUEEN PHILIP J., T/E MCQUEEN DEANNA M., T/E	27917	562	1 FORD AVENUE	LEFT	FENCING		NONE	NOT ANTICIPATED	TBD

Article 97 Property

Encroachments and ROW

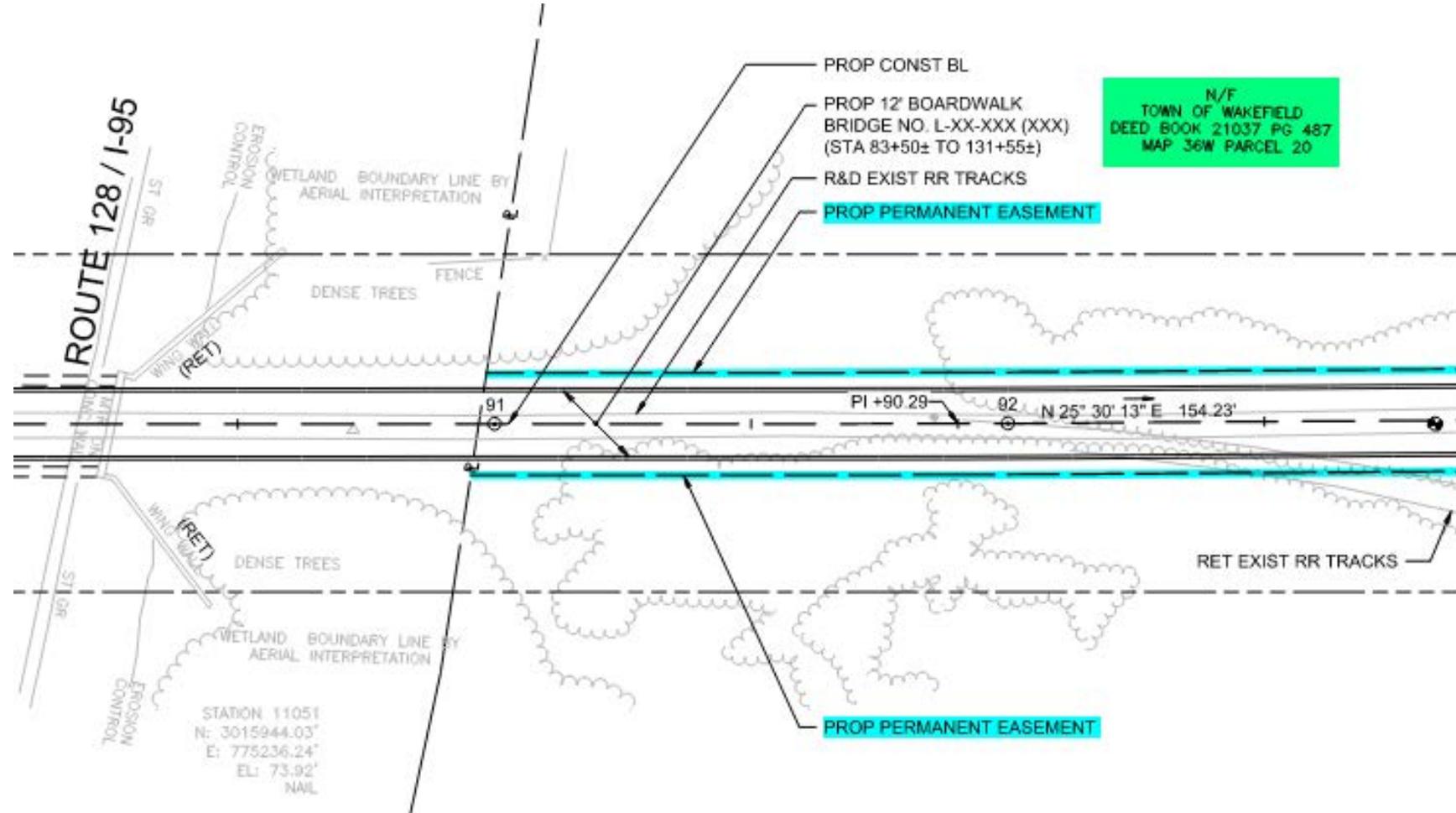
- Town of Wakefield Conservation Commission appears to own former RR corridor between I-95 and the Town Line
- Land is listed as protected by Article 97 in state database
- Property deed indicates “for conservation purposes only”



Right-of-Way (ROW)

Encroachments
and ROW

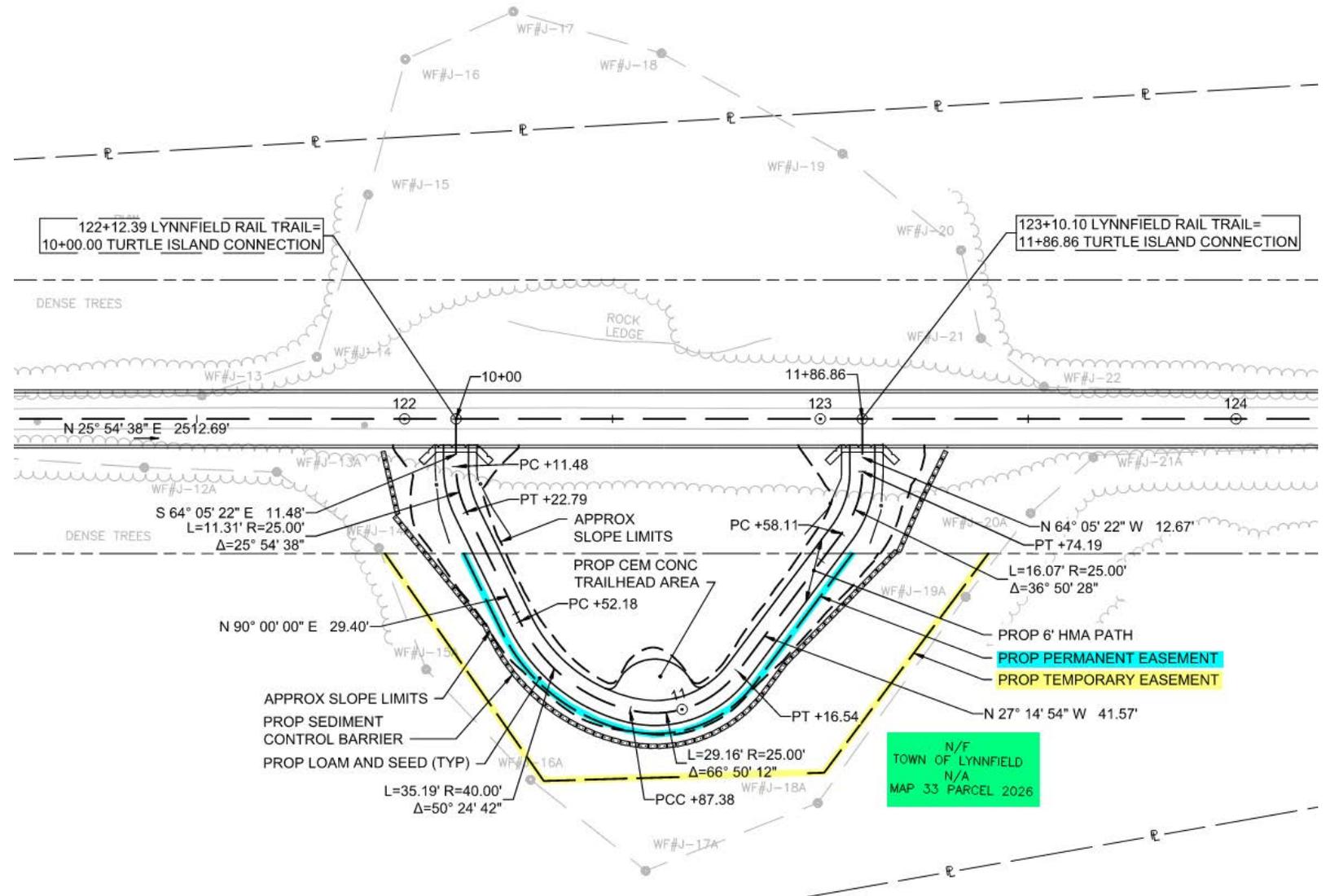
- Permanent Easements on Town of Wakefield Parcel (Protected Open Space)



Right-of-Way (ROW)

Encroachments and ROW

- Temporary and Permanent Easements on Town of Lynnfield Property for Turtle Island Connection



MassDOT Project Number (613163)

- A new MassDOT Project Number was assigned for the Lynnfield Rail Trail: **613163**
- Old MassDOT Project Number is still in use for Wakefield Rail Trail (607329)
- MassDOT Project Info can be found here:
 - <https://hwy.massdot.state.ma.us/projectinfo/projectinfo.asp?num=613163>

Project Milestones - Design

MassDOT and
TIP Process

**Submitted
Last Week**



01/26/2024

Bridge Type
Study

04/15/2024

Collect
Geotechnical
Data, Survey,
and Wetland
Flagging in
Reedy Meadow

06/24/2024

Submit Bridge
Sketch Plans +
Hydraulic Analysis +
Geotechnical Report

01/30/2025

Submit 75%
Design +
1st Bridge
Submission

07/21/2025

100%
Submission
and 2nd Bridge
Submission

01/06/2026

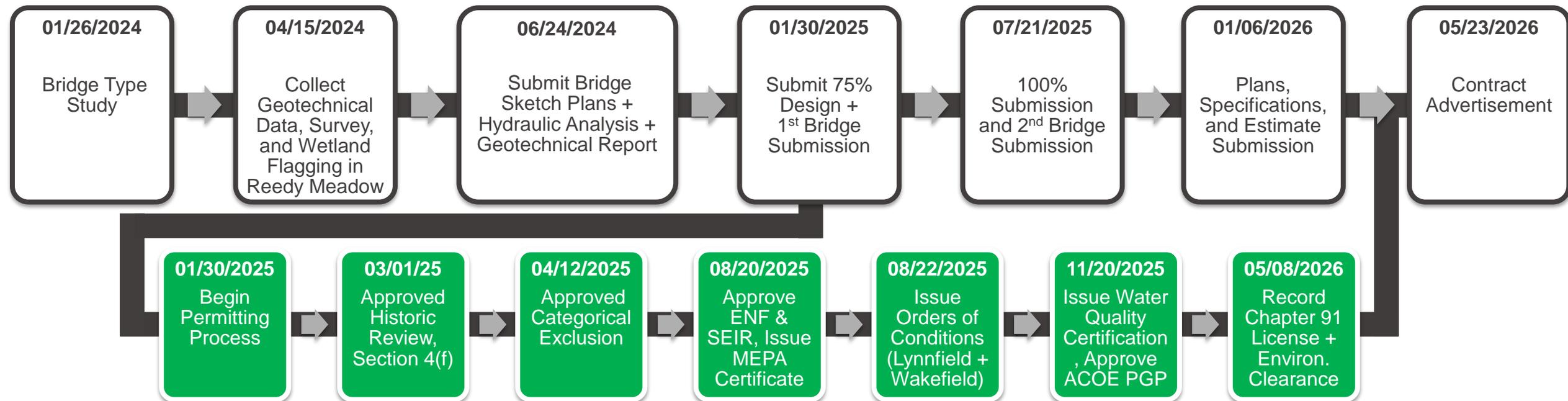
Plans,
Specifications,
and Estimate
Submission

05/23/2026

Contract
Advertisement

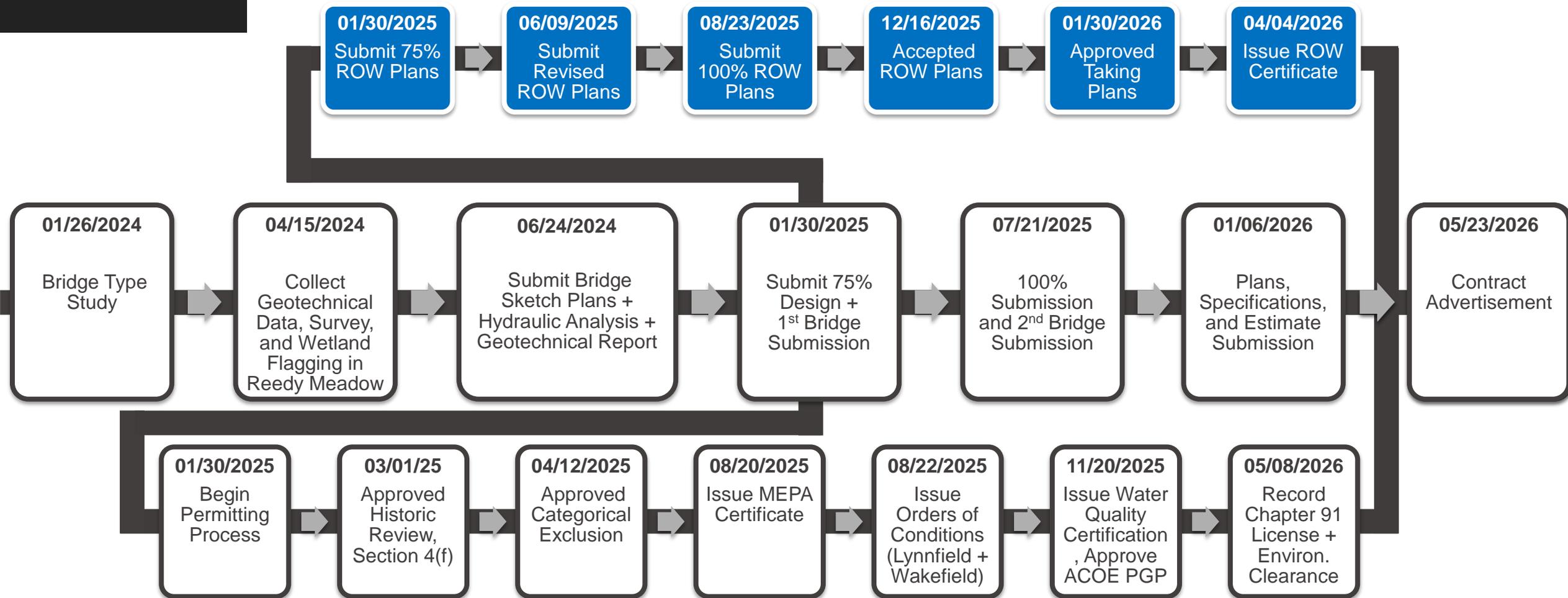
Project Milestones - Permitting

MassDOT and
TIP Process



Project Milestones – Right-of-Way

MassDOT and
TIP Process



TIP Funding

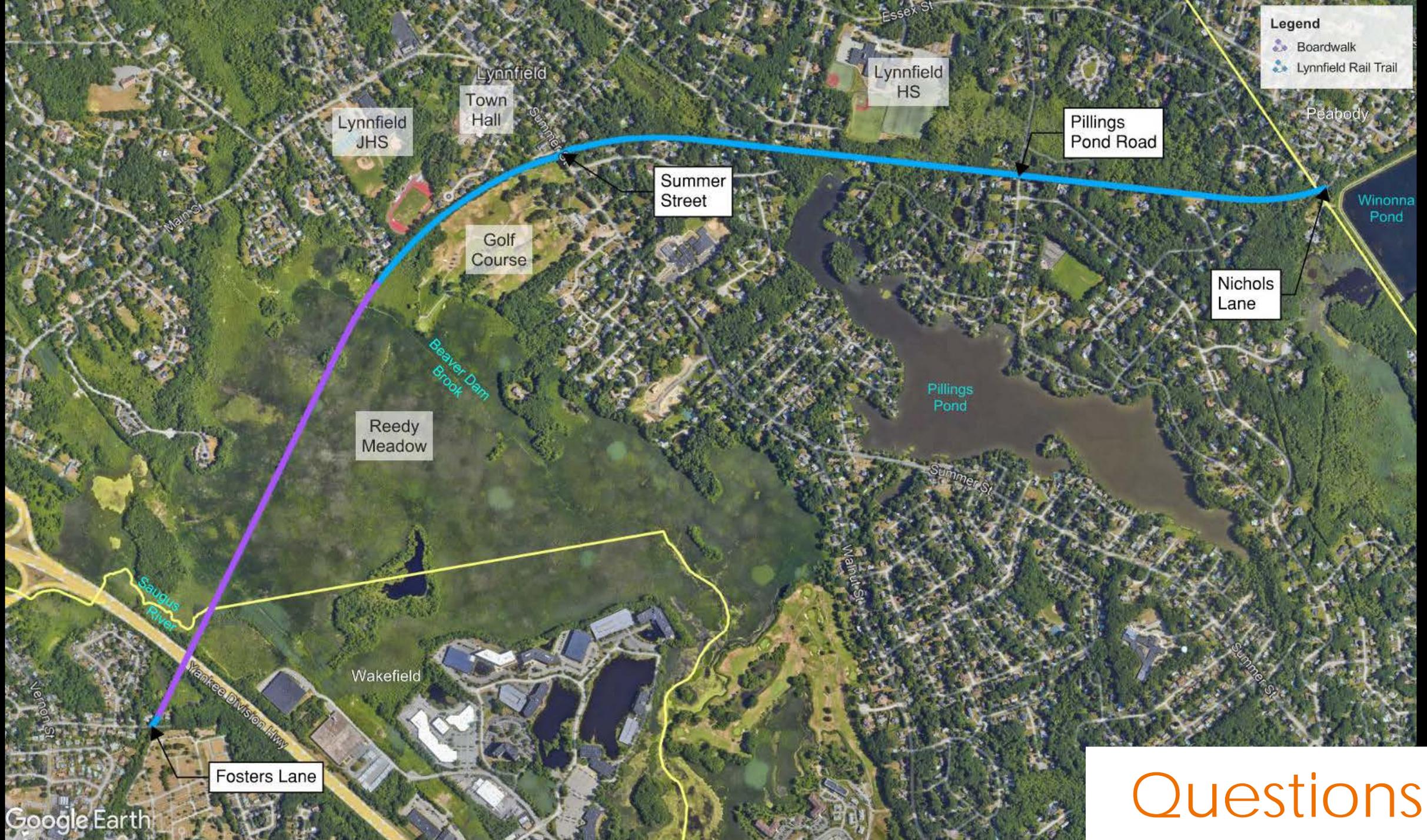
- Old MassDOT Project (607329) has \$24.5M in TIP funding across 2027-2028
- New MassDOT Project (613163) has no TIP funding currently, planned to be added
- Revised Preliminary Estimate at \$36.2M (2028)
- Design Schedule shows Advertising in FY 2026
- MassDOT evaluating projects from 2024 to 2029
- MassDOT's Upcoming TIP Readiness Days will likely determine the TIP Year

05/23/2026

Contract
Advertisement

Upcoming Work

- Clearing through Reedy Meadow
 - February + March
- Geotechnical, Survey, and Wetland Flagging work to follow clearing
 - March + April
- MassDOT's TIP Readiness Day
 - Date is TBD
- Schedule Early Coordination Meeting with MassDOT ROW
 - Stantec to coordinate through MassDOT PM
- Advance Structural Design of Boardwalks after MassDOT's Type Study Review
 - Expecting comments from MassDOT by 2/25/2024
- Evaluate Environmental Impacts
 - Begin in March + April after final survey received
- Future Coordination with Town on:
 - Boardwalk Overlooks
 - Connections to Middle School and High School
 - Summer Street Parking Area



Legend

- Boardwalk
- Lynnfield Rail Trail

Questions

