



Town of Swampscott  
Swampscott Rail Trail

Alignment Overview  
April 12, 2018





# Agenda

1. Process Overview
2. Alignment Design Approach
3. Alignment Overview
4. Next Steps

Swampscott Rail Trail

# Process Overview

## Process Overview:

STEP	STATUS / TIMING	REVIEWED BY
Collection of Data (survey, wetlands, utility infrastructure)	Complete	
Trail Alignment (location of the trail within the corridor based on the data collection)	Presented Tonight	National Grid Committee Trail Neighbors Town
Preliminary Design (25% design phase that will include design elements and details for street crossings and trail features)	About Two Months	National Grid Committee Trail Neighbors Board of Selectmen
Final Design / Construction Documents (100% design with all details, construction elements, and costs outlined)	~ End of Summer	National Grid Committee Trail Neighbors Board of Selectmen

Swampscott Rail Trail

# Alignment Design Approach

## Alignment Considerations:

Safety

Environmental Impacts

Adjacent land Impacts

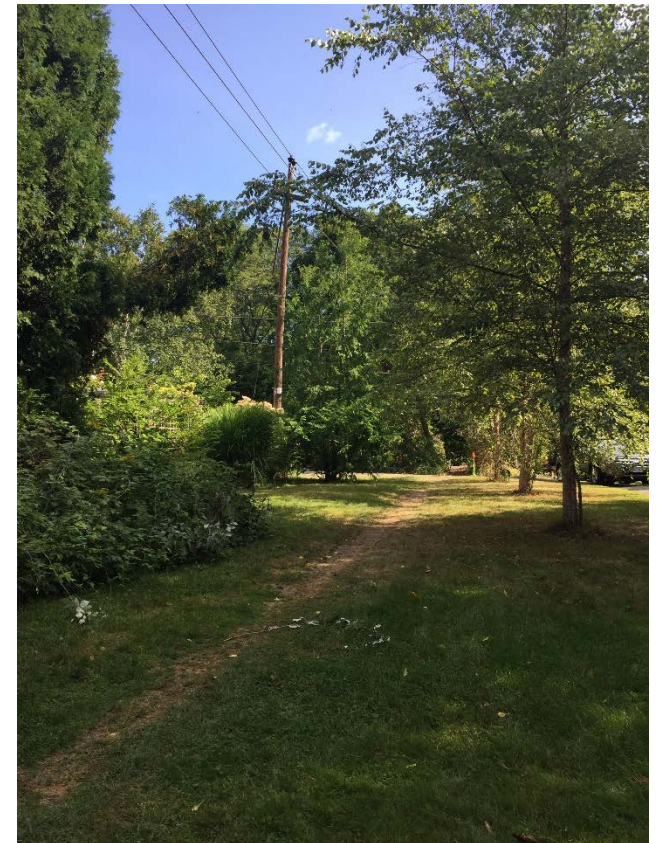
Public Comments

Aesthetics

Cost Efficiency

# Horizontal Alignment Approach:

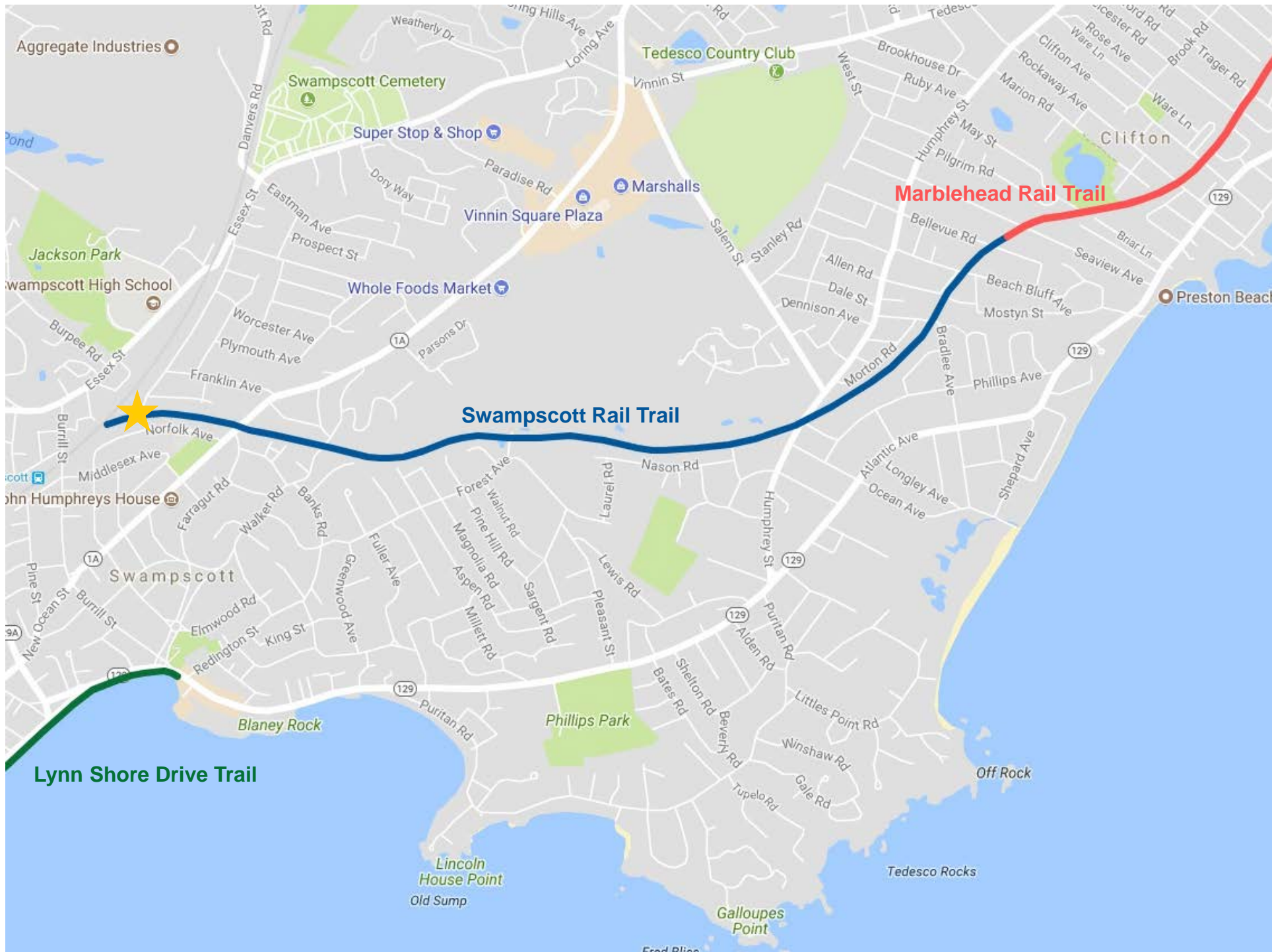
- Follow former RR baseline
  - Centerline of ROW was the centerline of the RR tracks
  - Track alignment is typically most level area of corridor – which equates to less grading impacts
- Determine potential grading impacts
  - Using surveyed surface and horizontal alignment, develop an approximate profile – which evaluates grading impacts
- Evaluate alternatives
  - Determine flexible areas and engineer potential alternatives for further evaluation



Swampscott Rail Trail

# Alignment Overview





**Lynn Shore Drive Trail**

**Swampscott Rail Trail**

**Marblehead Rail Trail**

Swampscott

Clifton

Phillips Park

Tedesco Country Club

Jackson Park

Swampscott High School

John Humphreys House

Preston Beach

Lincoln House Point

Galloupes Point

Tedesco Rocks

Blaney Rock

Off Rock

Old Sump

Fred Bliss

1A

129

129

129

129

129

129

129

## Stetson Ave Connection

Meet Stetson Ave by ramping trail down to roadway grade.

Goal to maintain accessibility requirements and not exceed a 4.5% profile design grade.

Remove existing RR abutment



# Stetson Ave Connection

Will require utility pole relocations



Alignment  
Overview

# Between Stetson Ave & Paradise Rd.





## Paradise Road (Route 1A)

Utilize existing abutments & propose a prefab pedestrian bridge

Utility coordination required for overhead wire relocations along Paradise Road

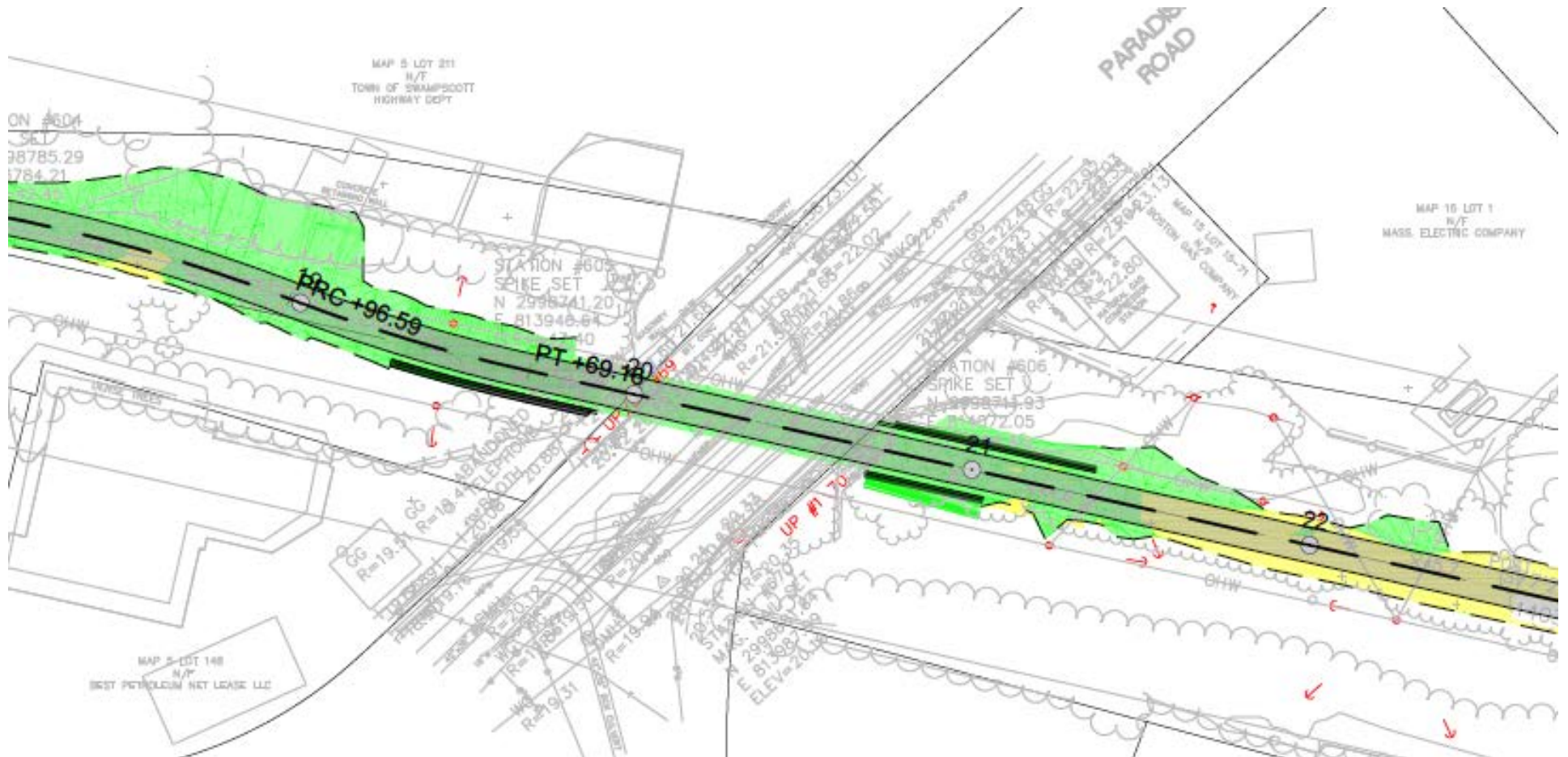


Example:  
*Low Street Pedestrian Bridge, Newburyport*



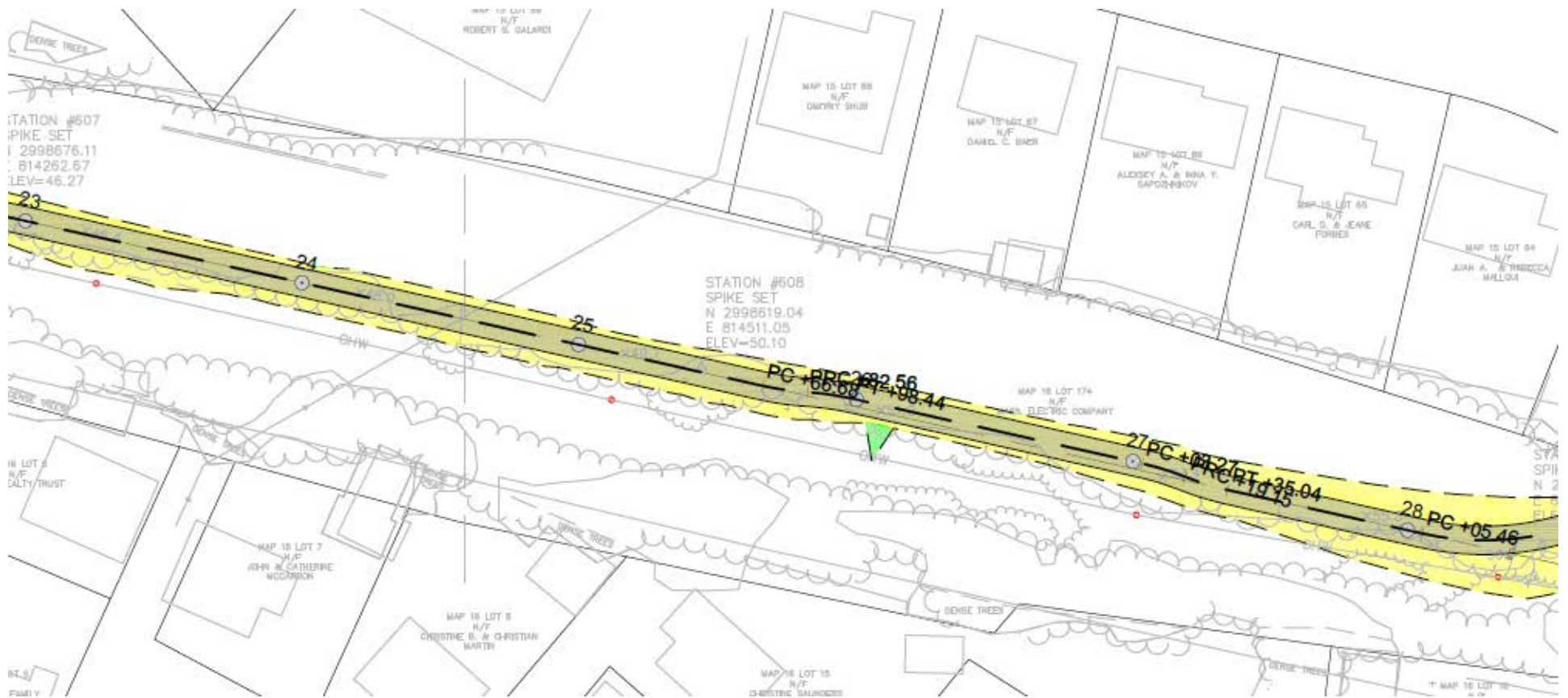
# Paradise Road Crossing

Evaluate grading and need for retaining wall on bridge approach



Alignment  
Overview

# Between Paradise Rd & Walker Rd





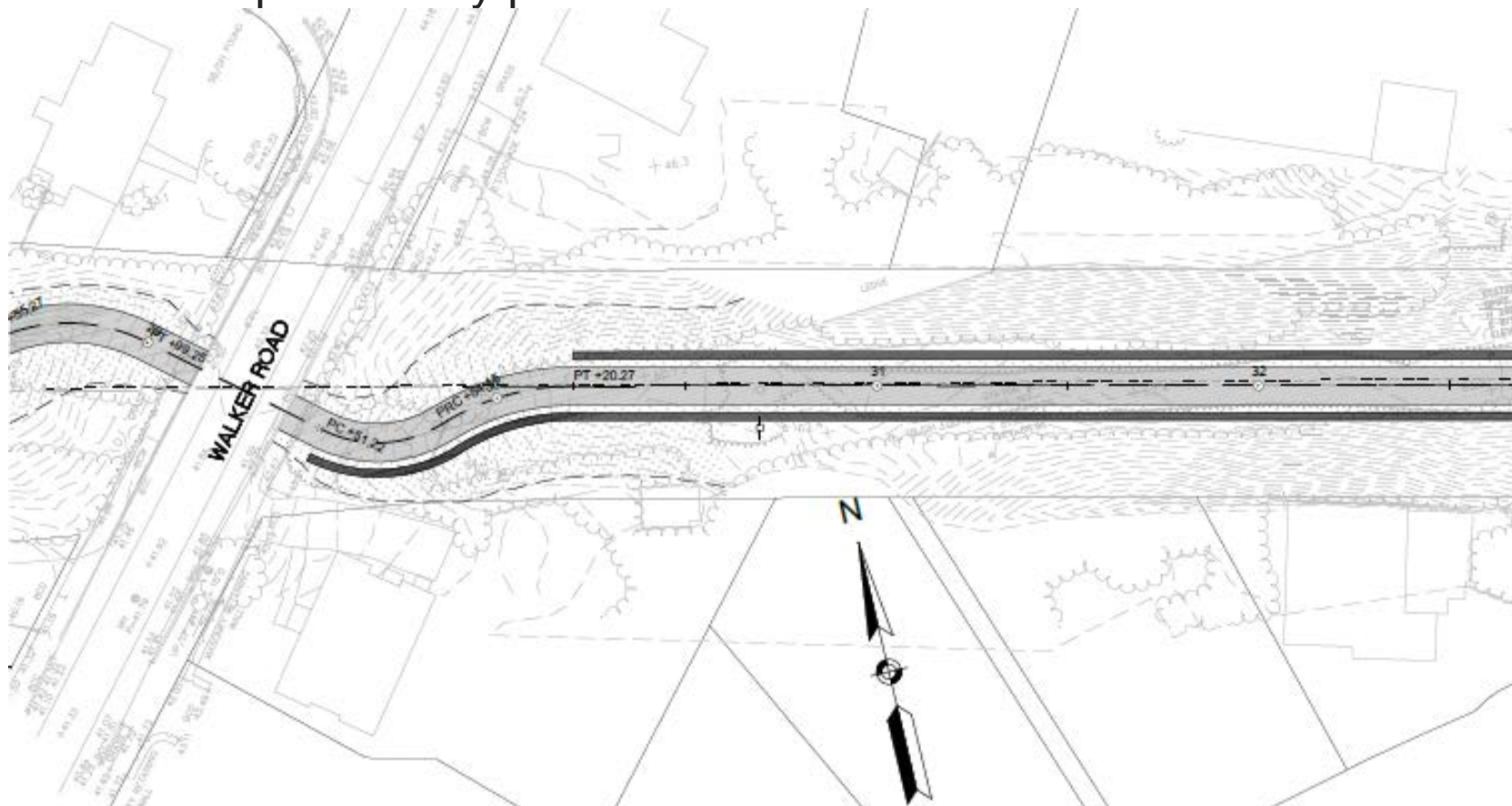


# Walker Road Crossing

At-Grade Crossing

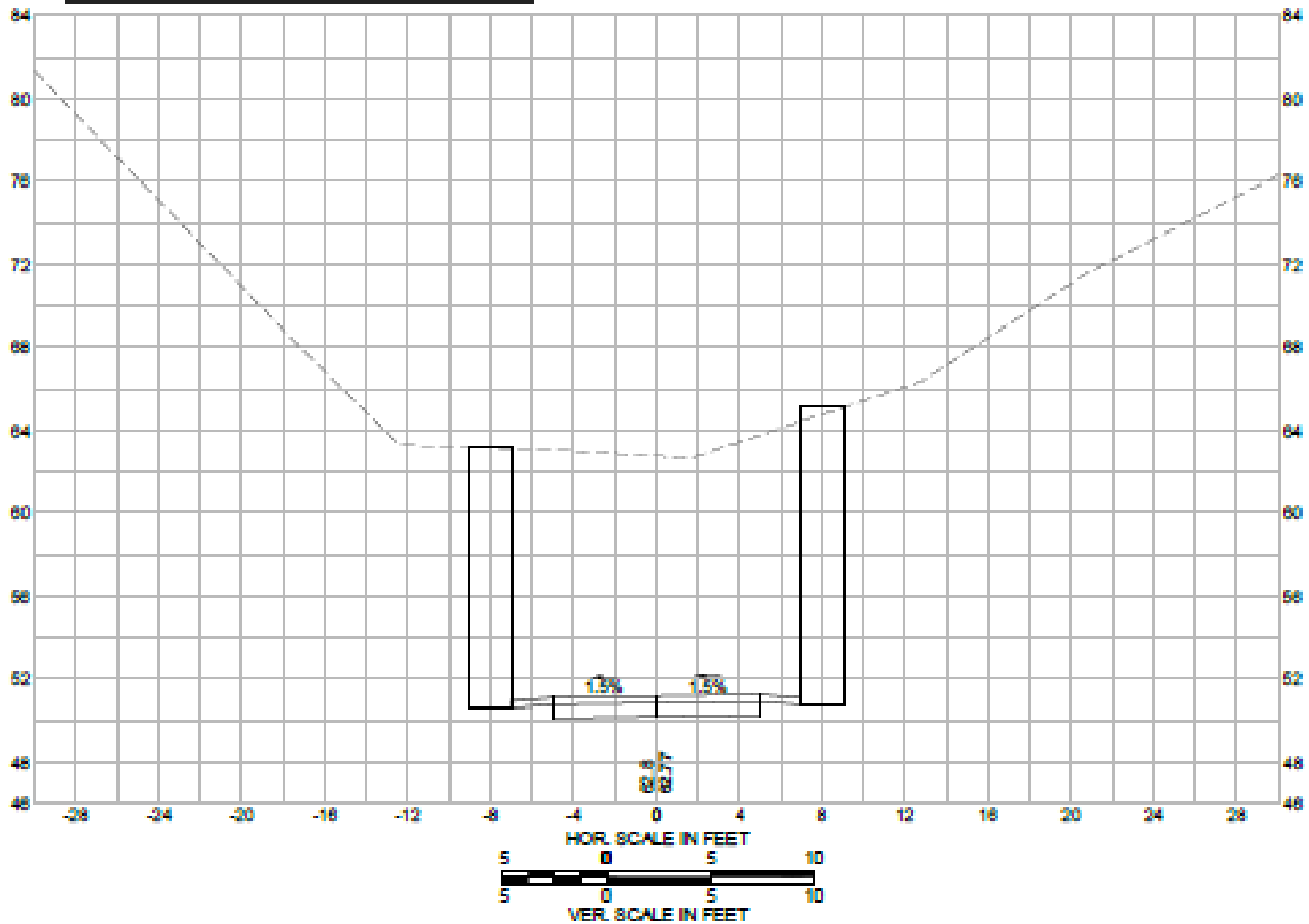
**Alternative 2: Long straight ramp along center of ROW (below)**

Requires utility pole relocations



# North of Walker Rd

## Alternative 2 Section 31+50



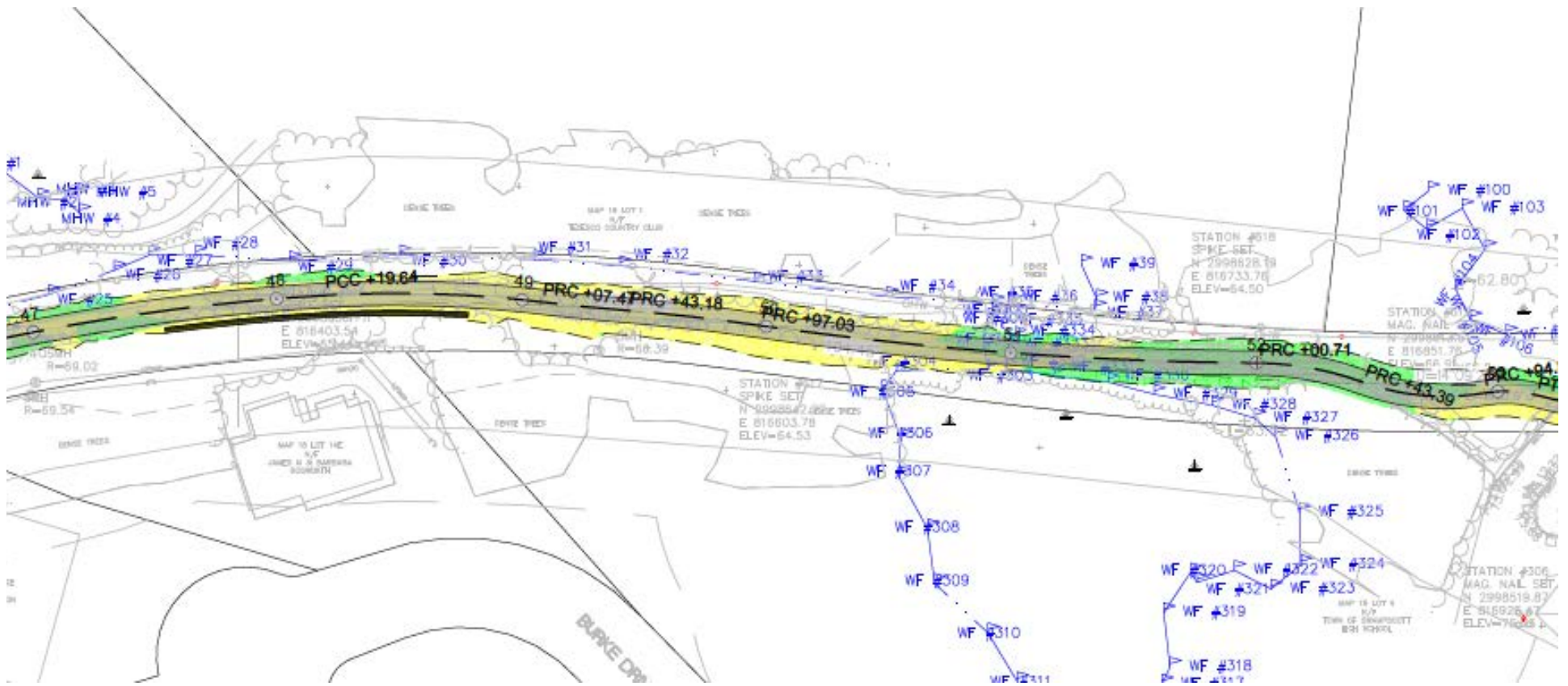
Alignment  
Overview

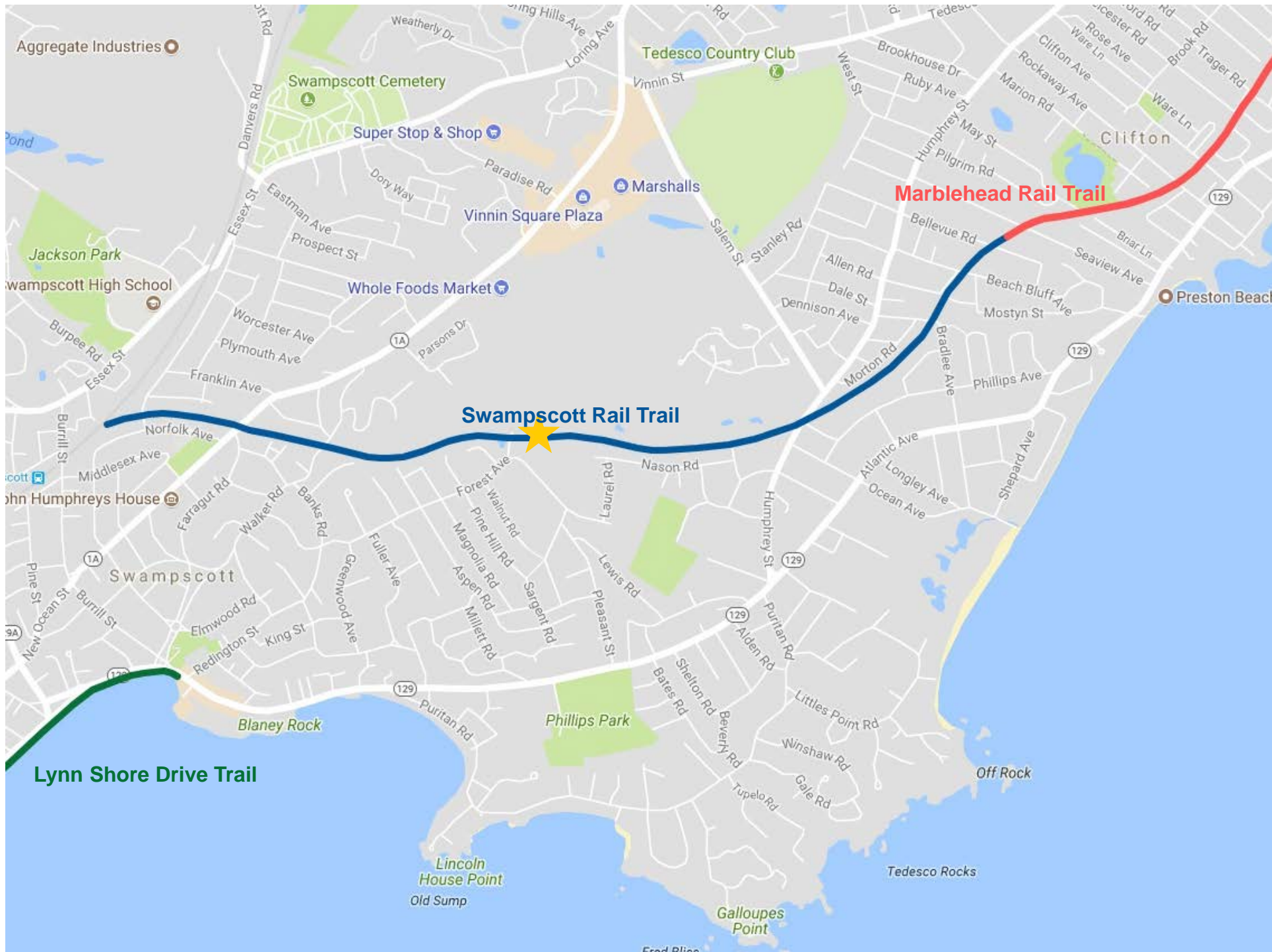
# Between Walker Rd & Middle School



Alignment  
Overview

# Between Walker Rd & Middle School





**Marblehead Rail Trail**

**Swampscott Rail Trail**

**Lynn Shore Drive Trail**



# Middle School Connection

Alignment utilizes ROW

Directs users through the Middle School Parking Lot

Alignment retains existing parking lot layout

Propose crossing treatments for driveway entrance and exit

Requires less environmental resource area impacts







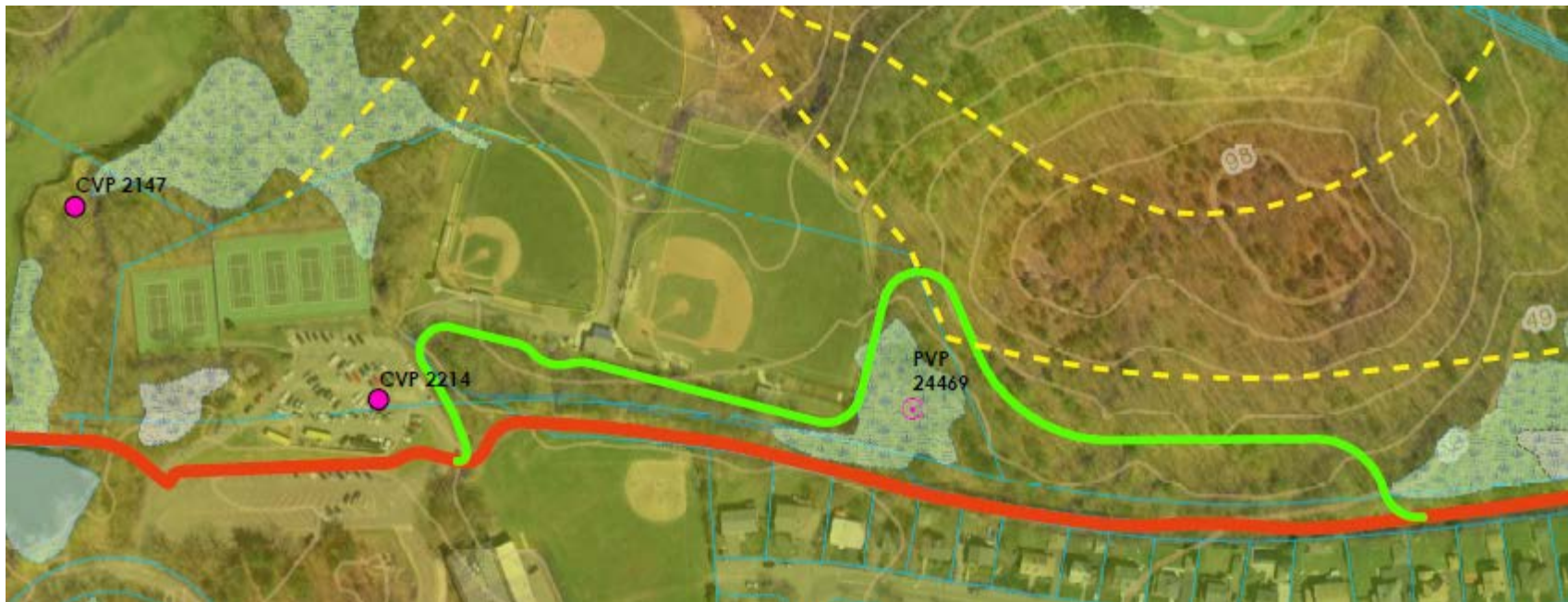


## East of Middle School

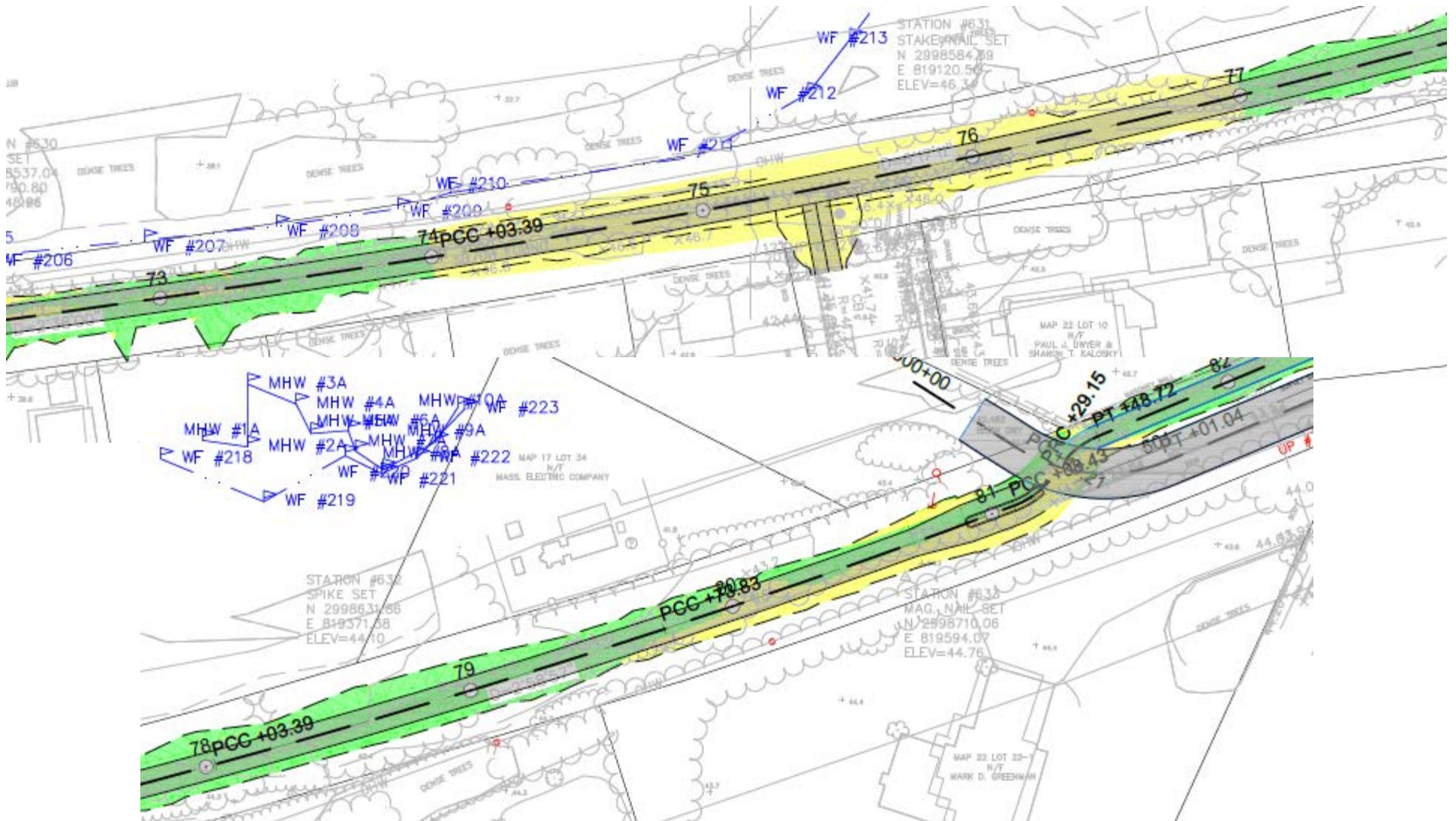
### **Alternative 2: Alignment utilizes fields and Tedesco Property**

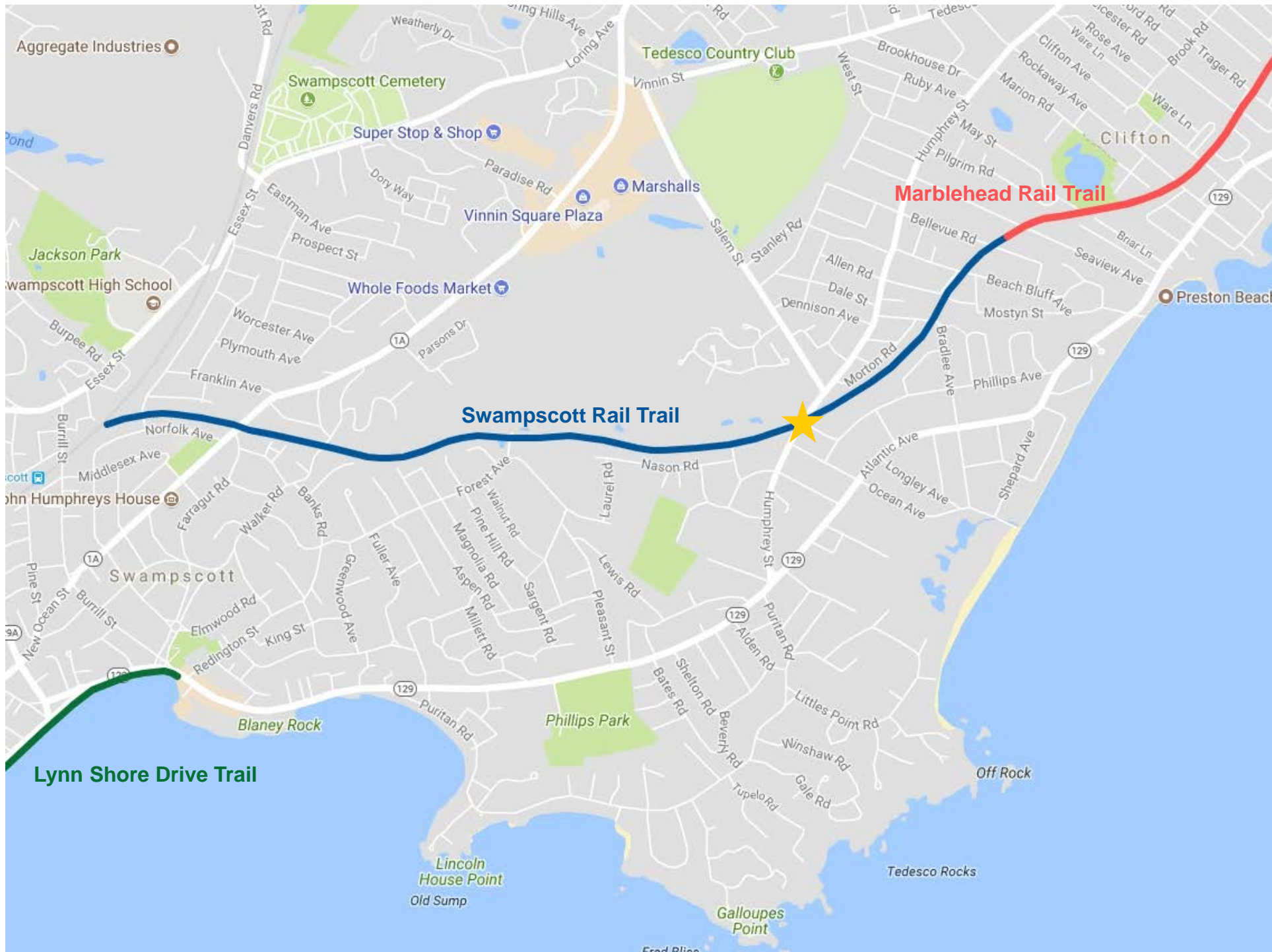
Alignment would require extensive clearing and grading to accomplish accessibility requirements

Alignment would require more impacts to environmental resource areas



# West of Humphrey Street





**Marblehead Rail Trail**

**Swampscott Rail Trail**

**Lynn Shore Drive Trail**



## Humphrey Street Crossing

Adjacent to National Grid substation driveway

Alignment crosses driveway to connect users to Humphrey Street sidewalk

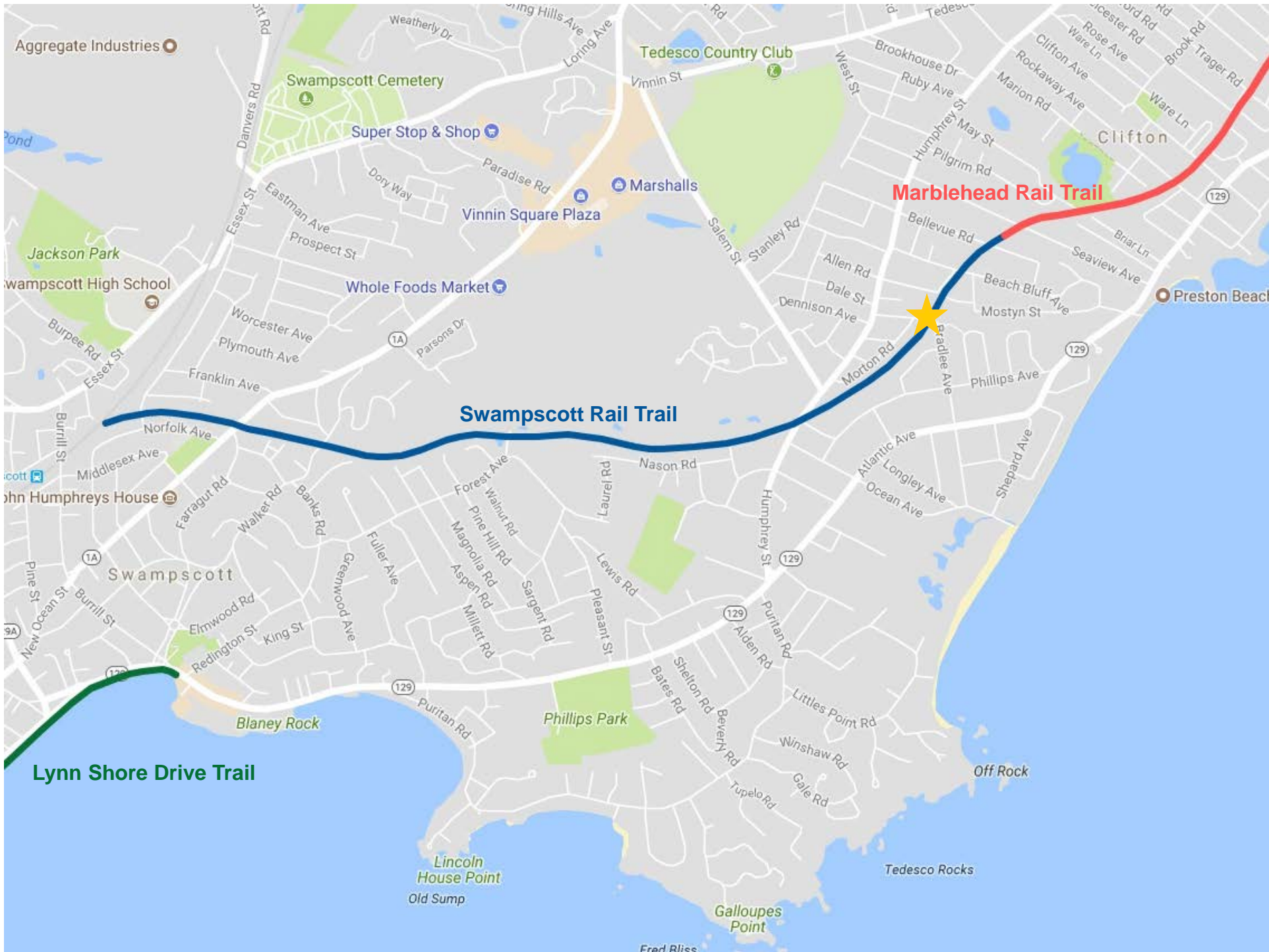
Crossing w/ped warning signal at Humphrey Street



Example: RRFB







Aggregate Industries

Swampscott Cemetery

Super Stop & Shop

Tedesco Country Club

Marshalls

Vinnin Square Plaza

Whole Foods Market

Marblehead Rail Trail

Swampscott Rail Trail

Lynn Shore Drive Trail

Preston Beach

Swampscott High School

John Humphreys House

Swampscott

Phillips Park

Blaney Rock

Lincoln House Point  
Old Sump

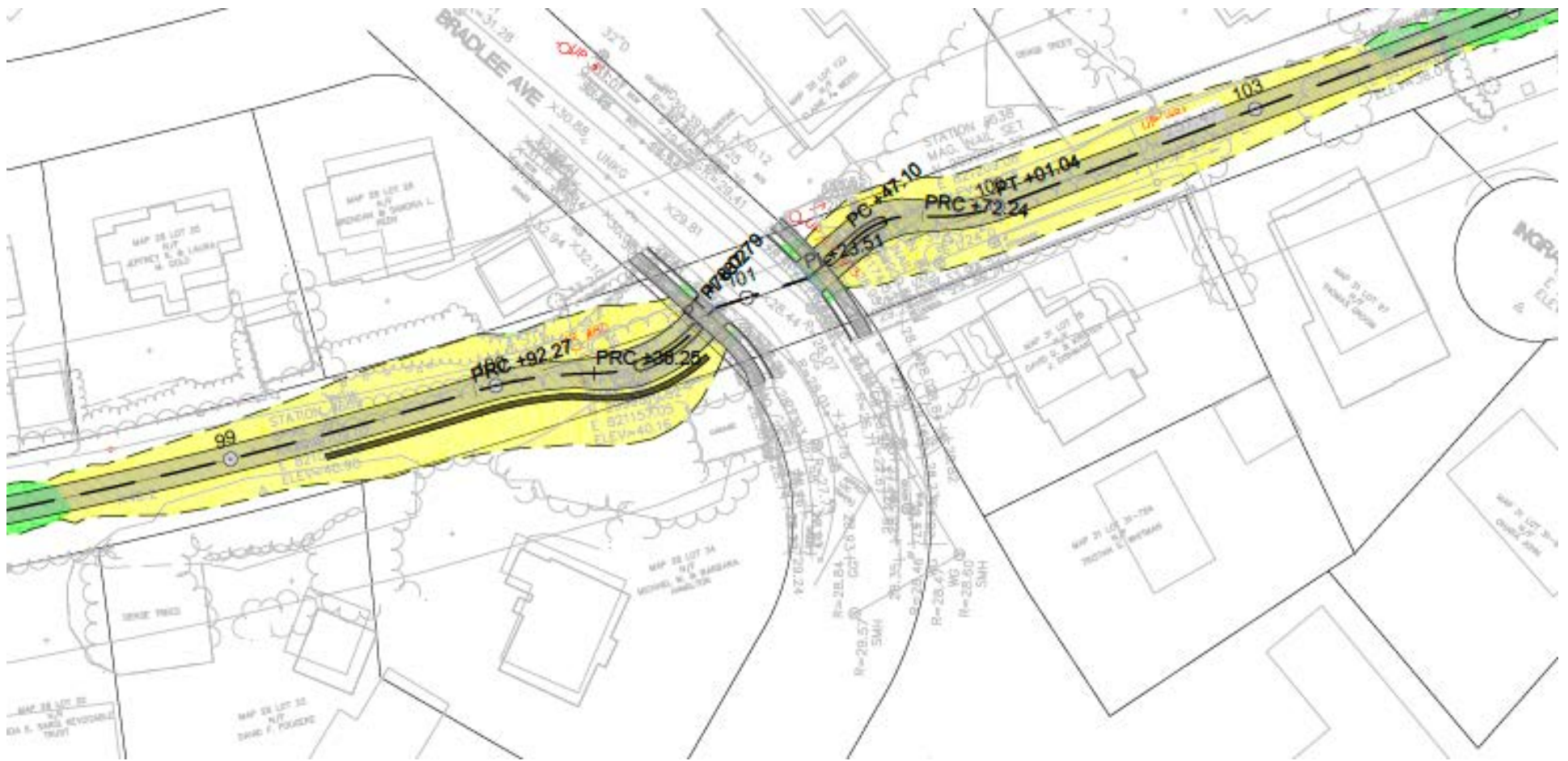
Galloupes Point

Tedesco Rocks

Fred Bliss



# Bradlee Ave Crossing









# Bellevue Road Crossing



Swampscott Rail Trail

Next Steps



## Next Steps

1. Proceed with Preliminary Design Phase
2. National Grid + Utility Coordination
3. Public Outreach
4. Final Design Phase



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