



13 FT - 9 IN

**Route 4 Bridge over Palisades
Ave. and CSX
Bridge Improvement**

LOCAL OFFICIAL BRIEFING

October 09, 2025

PROJECT LOCATION



PROJECT INTRODUCTION

- ◉ Bridge Improvements
- ◉ Roadway Improvements
- ◉ Drainage Improvements

BRIDGE REPLACEMENT

Proposed Bridge

- Length = 504',
Width = 102.5'
- 5 Spans
- Improved horizontal
and vertical
clearances

Existing Bridge

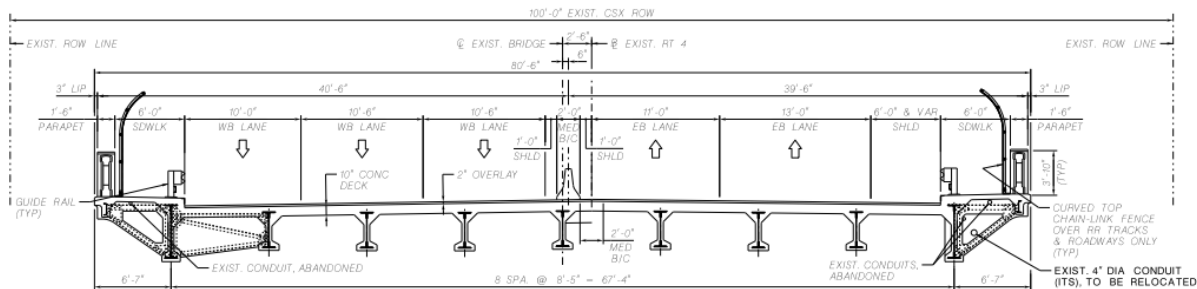
- Constructed in 1931
- Length = 495',
Width = 78.8'
- 8 Spans
- Structurally
Deficient and
Functionally
Obsolete



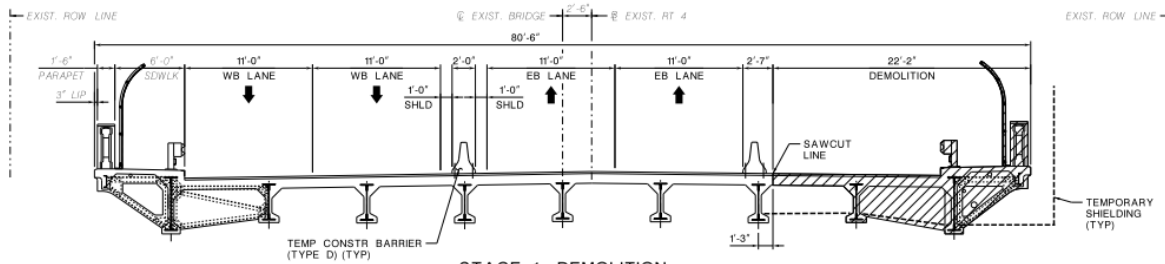
PROPOSED STRUCTURES

- ⦿ One 5 Span Continuous Bridge
- ⦿ Four Retaining Walls
- ⦿ One Cantilever Sign Structure (exit sign)
- ⦿ One CCTV Camera
- ⦿ One Detention Basin Under the bridge
- ⦿ One Underground Detention Basin

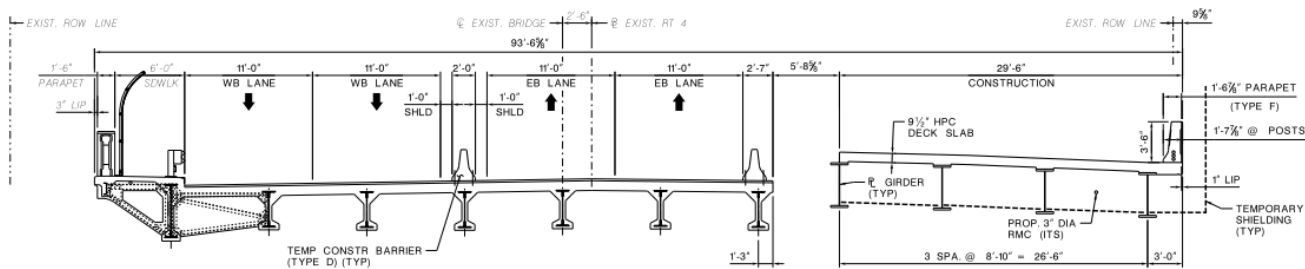
THREE STAGE CONSTRUCTION



TYPICAL SECTION - EXISTING
(LOOKING EAST - SPANS 1, 2, 3 & 8 SHOWN, SPANS 4, 5, 6 & 7 SIMILAR)
 $\frac{3}{4}" = 1'-0"$

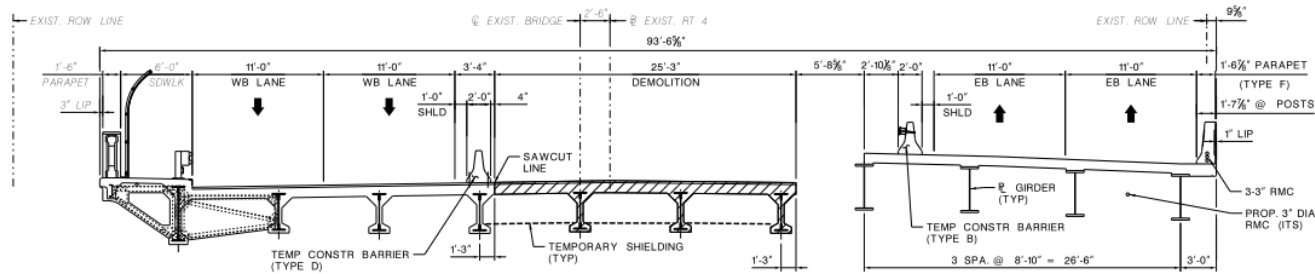


STAGE 1 - DEMOLITION
(LOOKING EAST)
 $\frac{3}{4}" = 1'-0"$



STAGE 1 - CONSTRUCTION
(LOOKING EAST)
 $\frac{3}{4}" = 1'-0"$

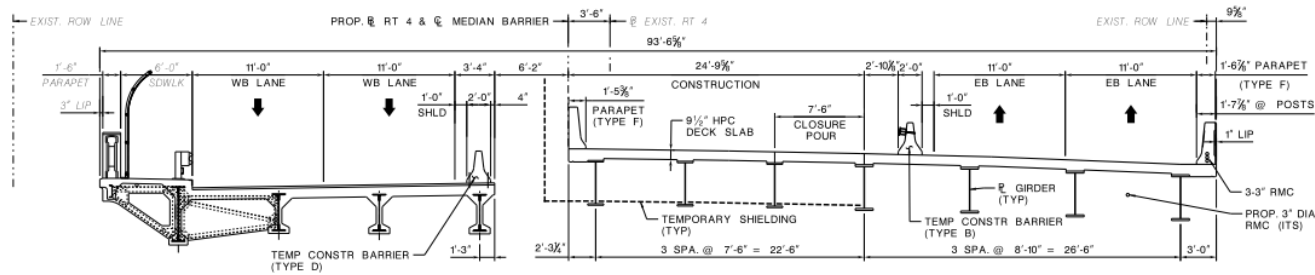
THREE STAGE CONSTRUCTION



STAGE 2 - DEMOLITION

(LOOKING EAST)

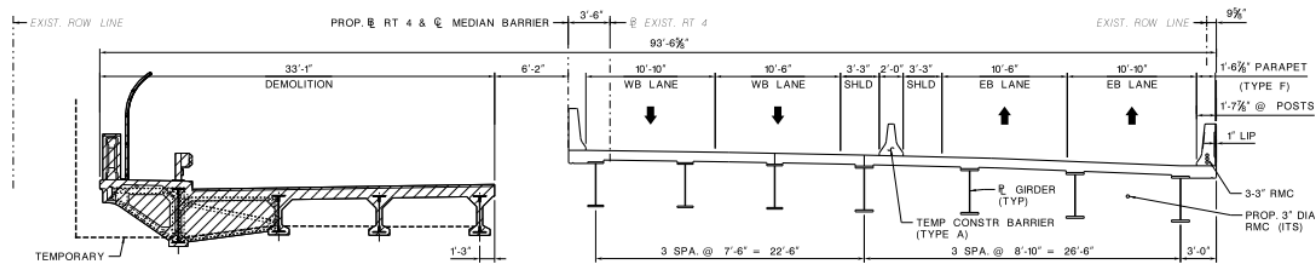
1/4" = 1'-0"



STAGE 2 - CONSTRUCTION

(LOOKING EAST)

1/4" = 1'-0"



STAGE 3 - DEMOLITION

(LOOKING EAST)

1/4" = 1'-0"

CONSTRUCTABILITY CHALLENGES

- ◉ Overhead Utilities along south side of Route 4.
- ◉ Greenbelt and Green acre parcels along both sides of route 4 parallel to the bridge.
- ◉ Need two detention basins for SWM within the project limit.
- ◉ Three CSX tracks (3) under one span - No track outage.

TRAFFIC FLOW DURING CONSTRUCTION

- ◉ 3 main construction stages - approximately 9 months each
- ◉ 2 lanes of traffic will be maintained in each direction during construction
- ◉ There are no detours for Route 4 traffic
- ◉ Short duration traffic detours may be necessary for Belle Ave, Palisades Ave and Windsor Road during utility relocations and roadway reconstruction
- ◉ Pedestrian traffic to be diverted to Sagamore Avenue during stages 3 and 4.

ROADWAY RECONSTRUCTION



Existing Roadway

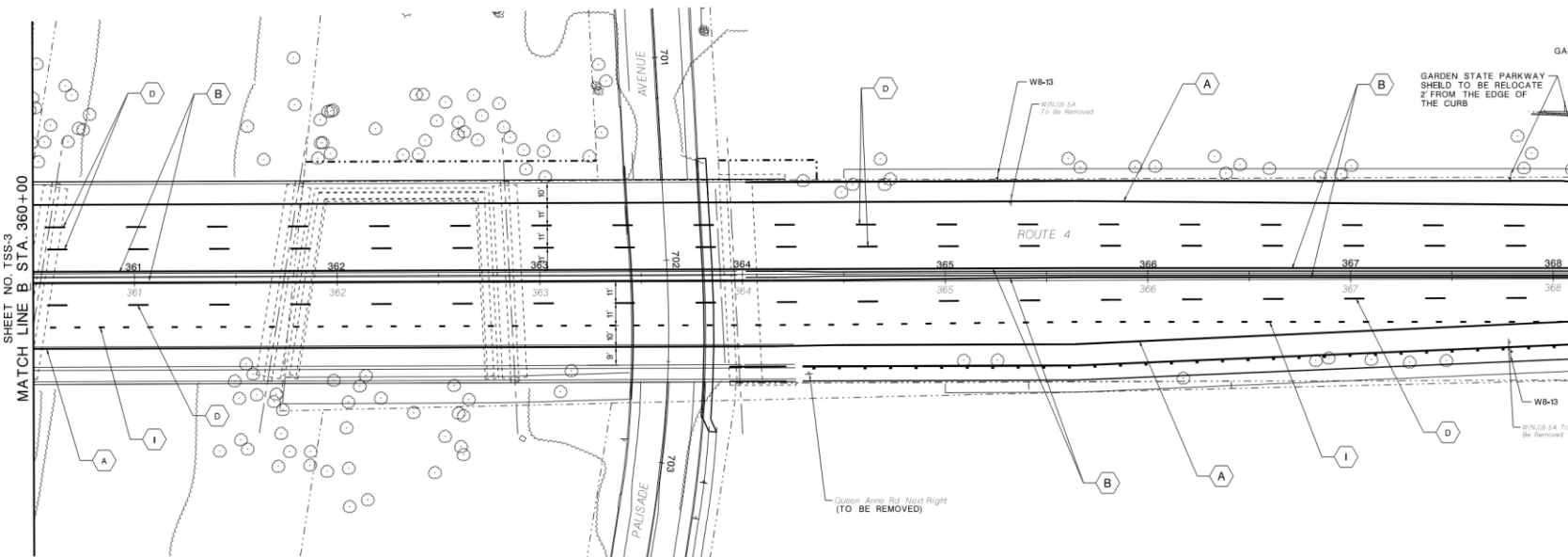
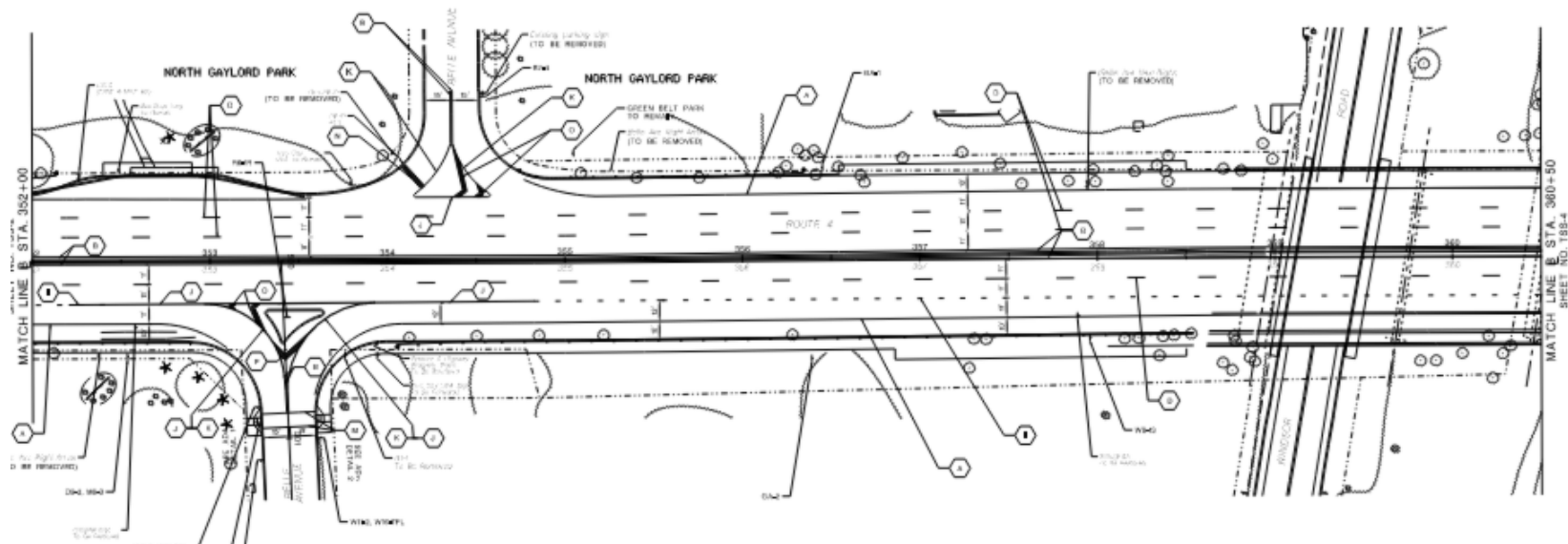
- EB 2-12' lanes + a 6' shoulder
- WB 3-10' lanes with no shoulder
- Non-compliant deceleration lane from Rt. 4 EB to Belle Ave

Roadway Improvements

- Provide 3-11' lanes in each direction
- Provide an acceleration lane from Belle Ave. to Route 4 EB
- Improve deceleration lane from Route 4 EB to Belle Ave
- Improve transition geometry from 3 lanes to 2 lanes at the Garrison Avenue Bridge through striping and signing



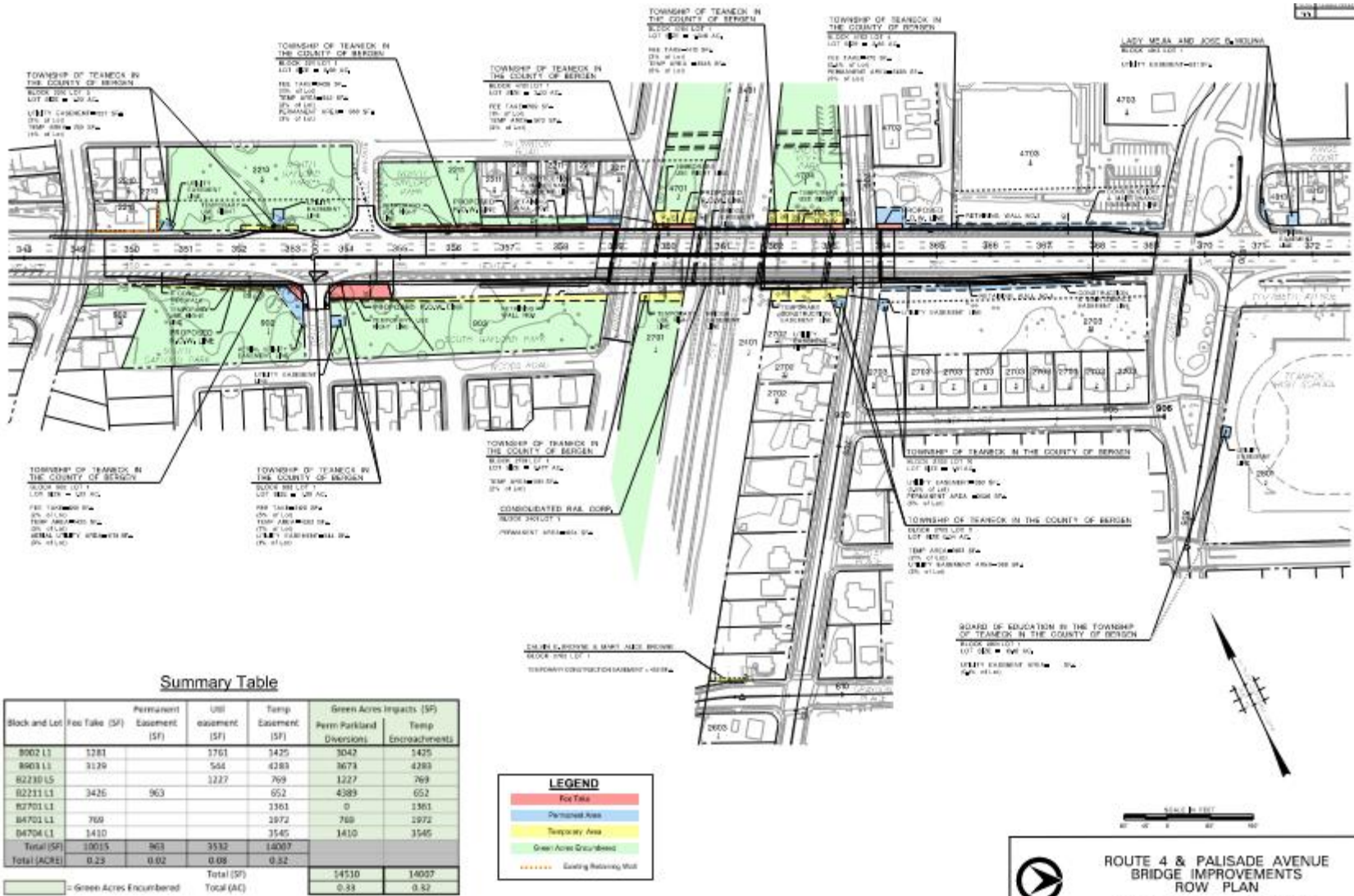
ROADWAY RECONSTRUCTION



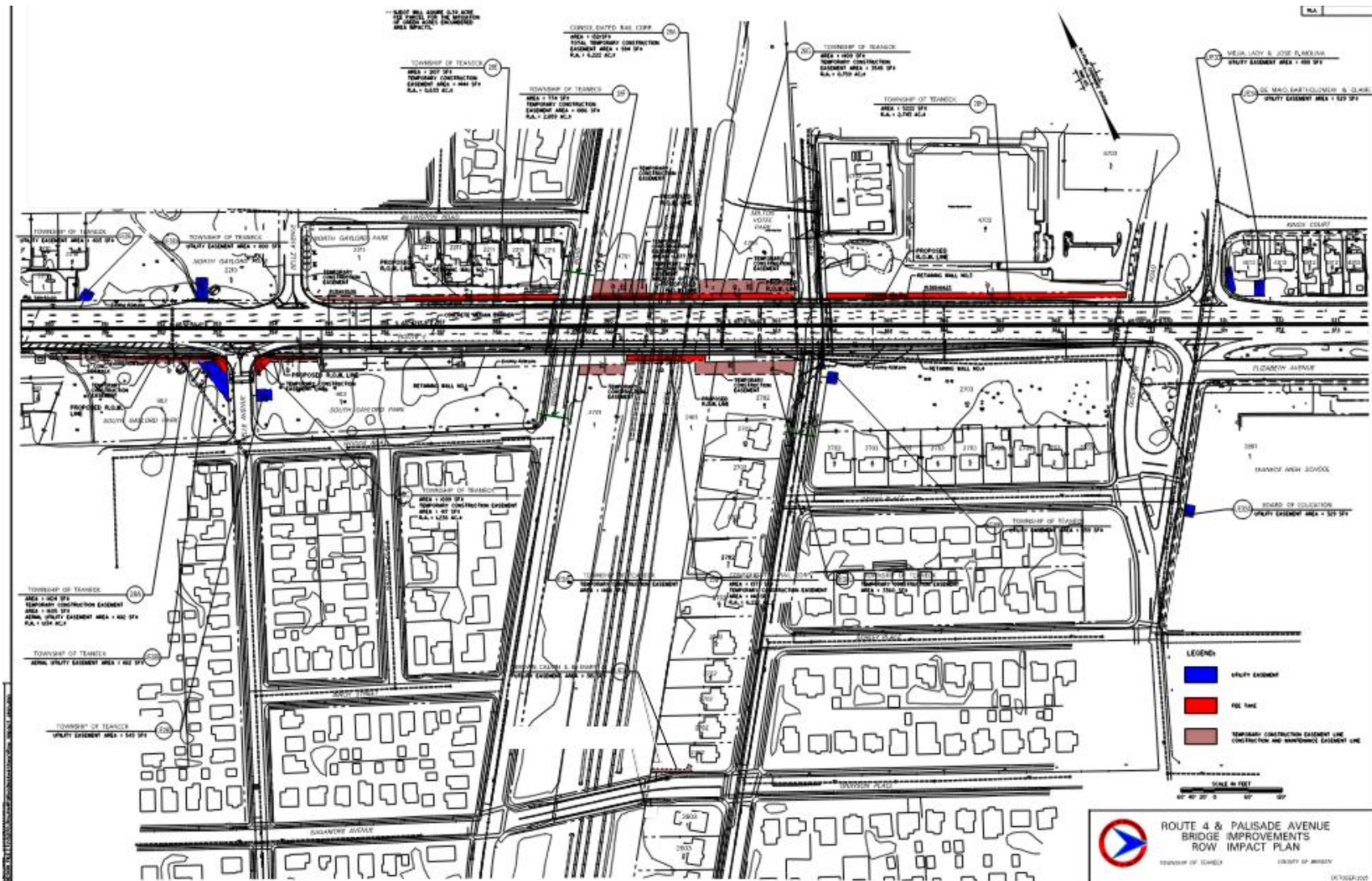
PROJECT SCHEDULE

ACTIVITY	YEAR
Final Design Phase	PS&E- Summer/2026
Construction Award	Fall/2026
Anticipated Construction Schedule Utility Relocation	Fall/2026 to Fall/2028
Bridge Construction - 3 Main Stages	Fall/2028 to Spring/2032

GREEN ACRE IMPACTS



RIGHT OF WAY IMPACTS



RIGHT OF WAY IMPACTS

- ◉ 6 Township owned parcels to be acquired in fee. The fee take areas total 0.24 acre
- ◉ The permanent easement area totals 0.28 acre. Of these parcels, two are CSX owned to be acquired as permanent bridge easements.
- ◉ The utility easements total 0.14 acre
- ◉ There are several temporary construction easement areas that are required for the placement of the cranes and grading. The temporary easements total 0.39 acre

PARKLAND IMPACTS

- ◉ Total permanent easements = 0.25± acre
- ◉ Total temporary easements = 0.42± acre
- ◉ Total parkland diversion = 0.59± acre
- ◉ Area of tree impacts = 0.48± acre
- ◉ NJDEP Review determined all impacts fall under minor diversion. Final Application is under review by NJDEP

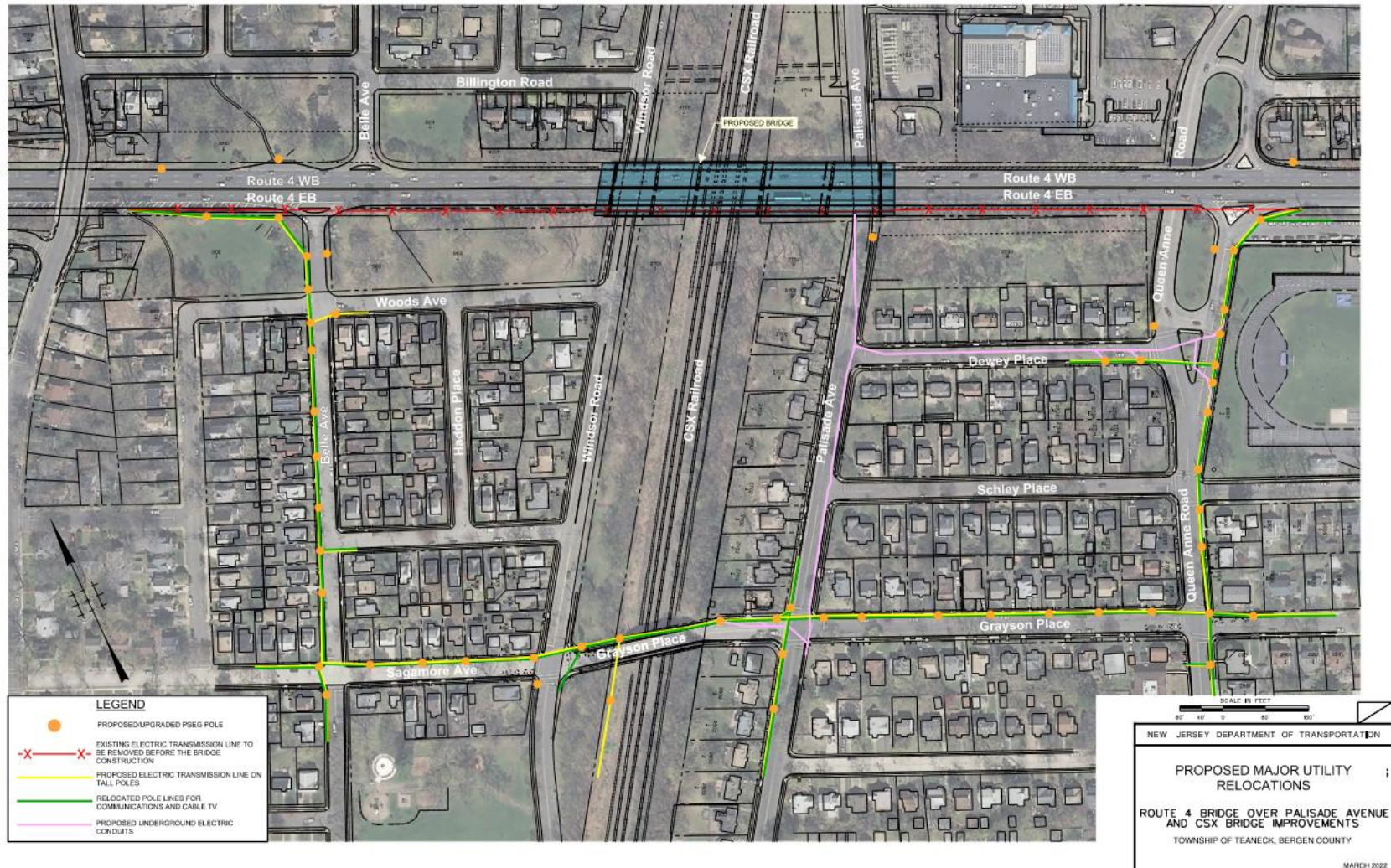
NJDOT is mitigating this loss by acquiring a parcel of land off site in Teaneck (on Shepard Ave between Buffett Terrace and Oak Street) to protect and give back to the township.

Items pending: Teaneck letter of approval and clean-up of parcel

UTILITY RELOCATIONS AND ITS

- ⦿ Prior to bridge construction all overhead utilities (10 Total) in the Route 4 corridor except ITS will be relocated along local roads using new poles and ductbanks.
- ⦿ Existing ITS along the south side will be temporarily relocated along north side in Stage 1.
- ⦿ There will be a proposed closed circuit television camera (CCTV) in NJDOT's right of way in the area of Queen Anne Road.

UTILITY DESIGN



STORMWATER MANAGEMENT

- ◉ The project will add 1.2 acres of new impervious area
- ◉ NJDOT will detain the water from the widened Route 4 in the above ground and underground detention basins.
 - Understructure between Palisade Ave and CSX
 - Underground in NDOT ROW along EB side of Route 4, next to Belle Ave
- ◉ The water from the basins will drain into existing drainage pipes
- ◉ Above ground basins will be completely fenced

THANK YOU