Presentation to the Quincy Conservation Commission
June 6, 2018

Long Island Bridge Superstructure Replacement Project

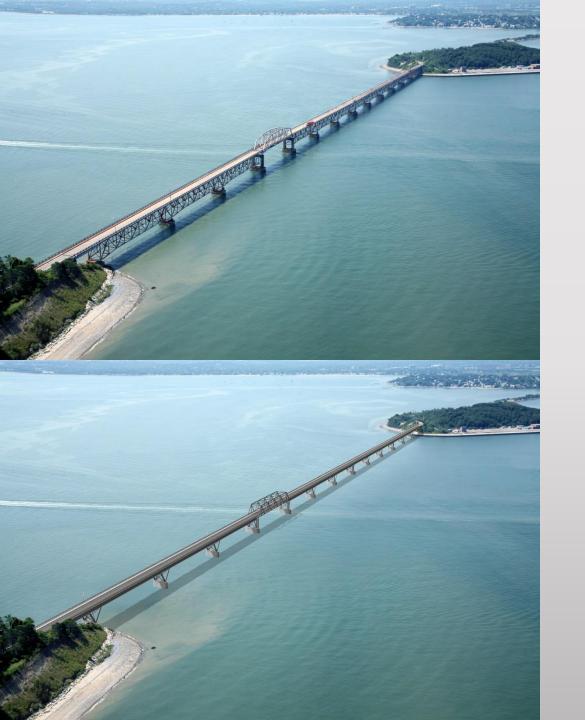
Project Objectives

- Minimize Wetland Impacts
- Minimize Construction Impacts
- •Improve Stormwater Performance
- •75 Year Life Span
- •Improve Resilience

• All of these objectives are met with the proposed project.

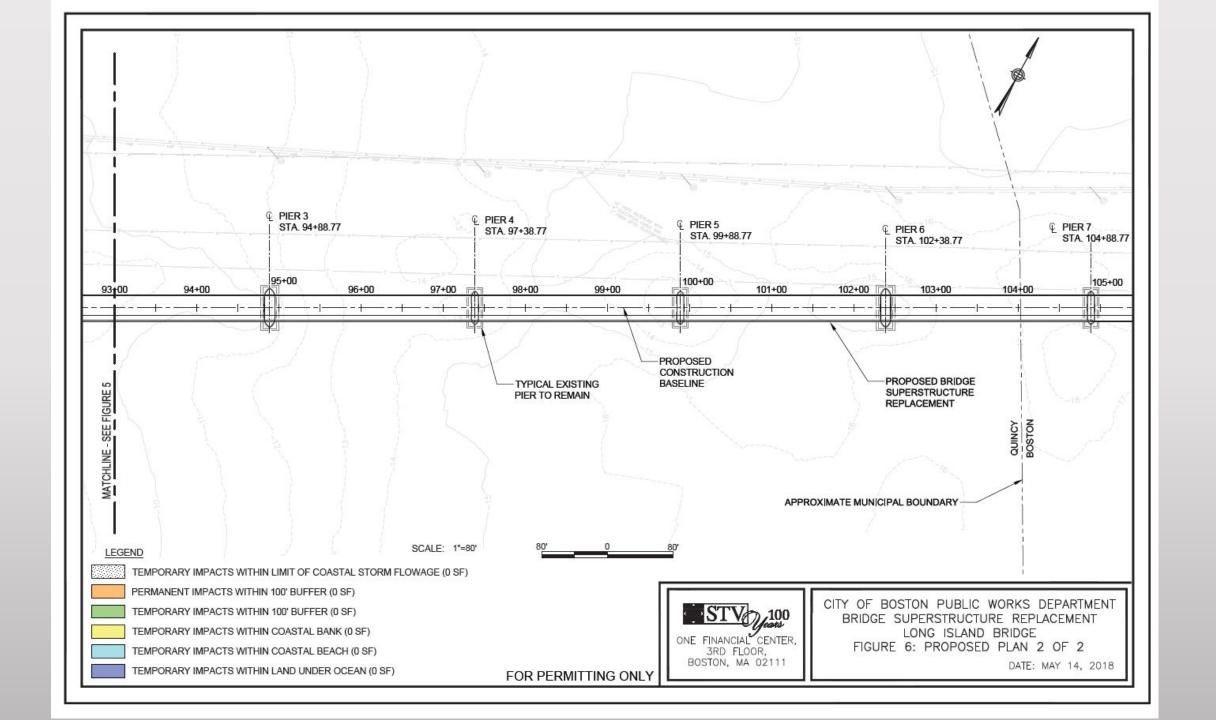
Proposed Replacement Superstructure

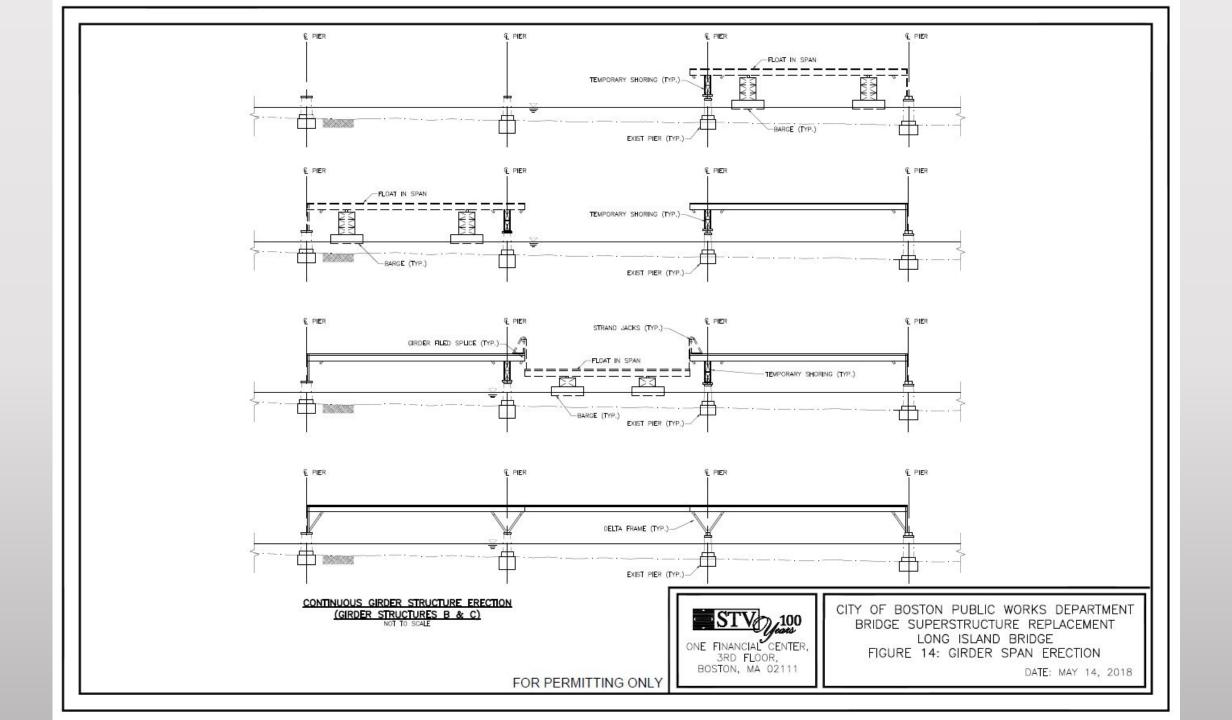
- Same Bridge Width/Profile
- Existing Piers
- Higher Clearance Over Water
- •Improvements to Storm Water Management
- Minimized Coastal Wetland Impacts Through Construction Methods
- Meets Coast Guard Permit Requirements
- Resiliency Improvements

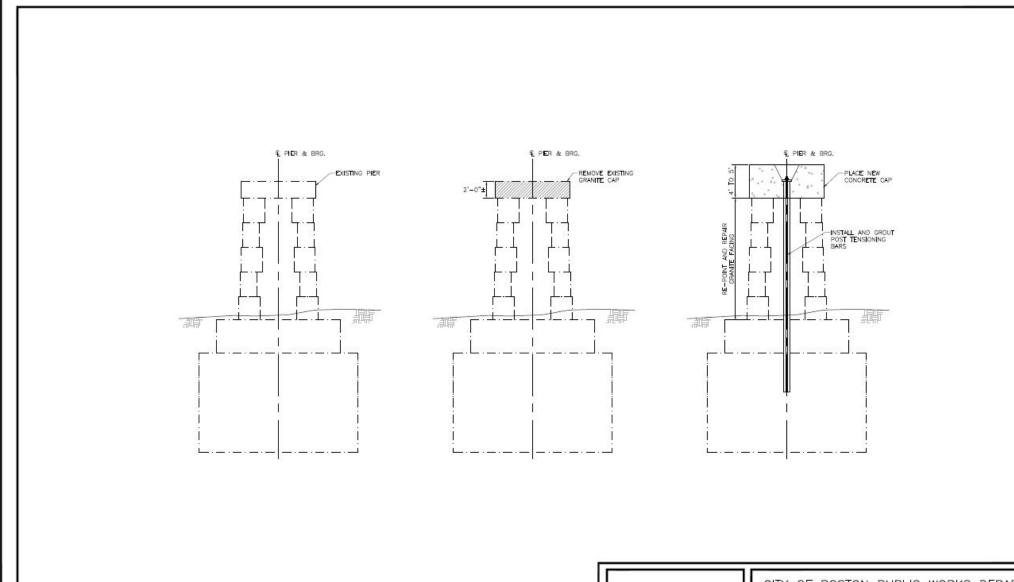


Old Bridge Superstructure

Replacement Bridge Superstructure



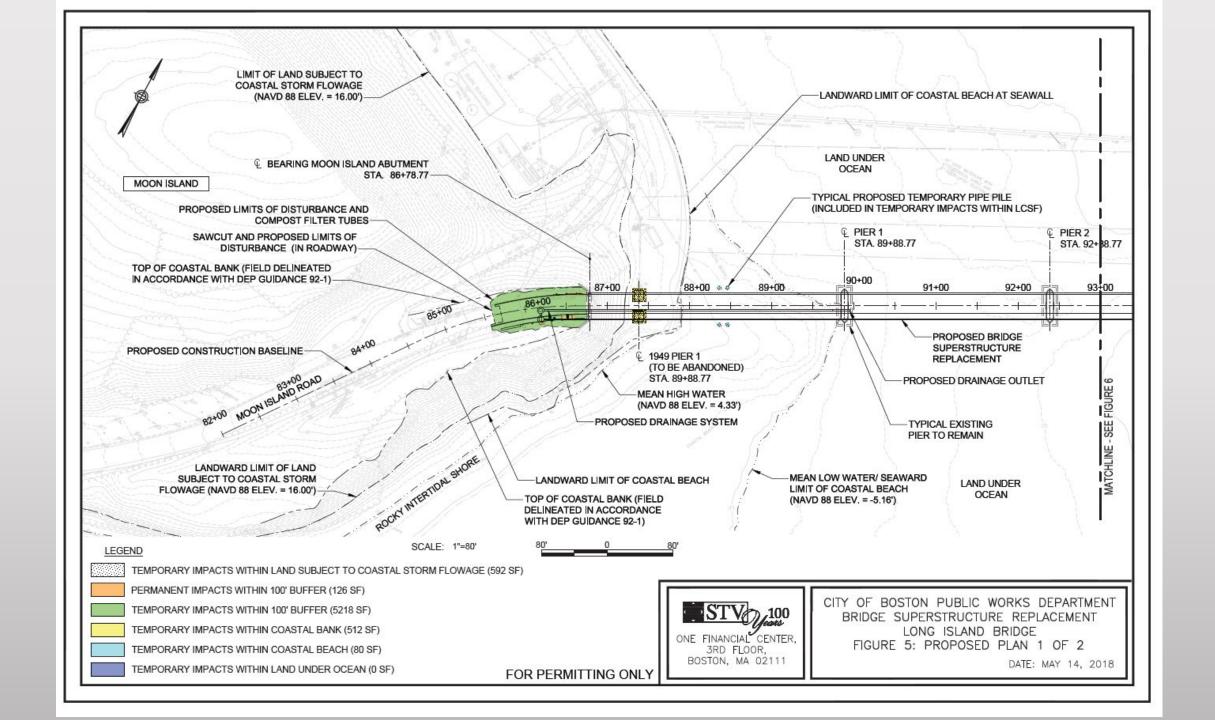


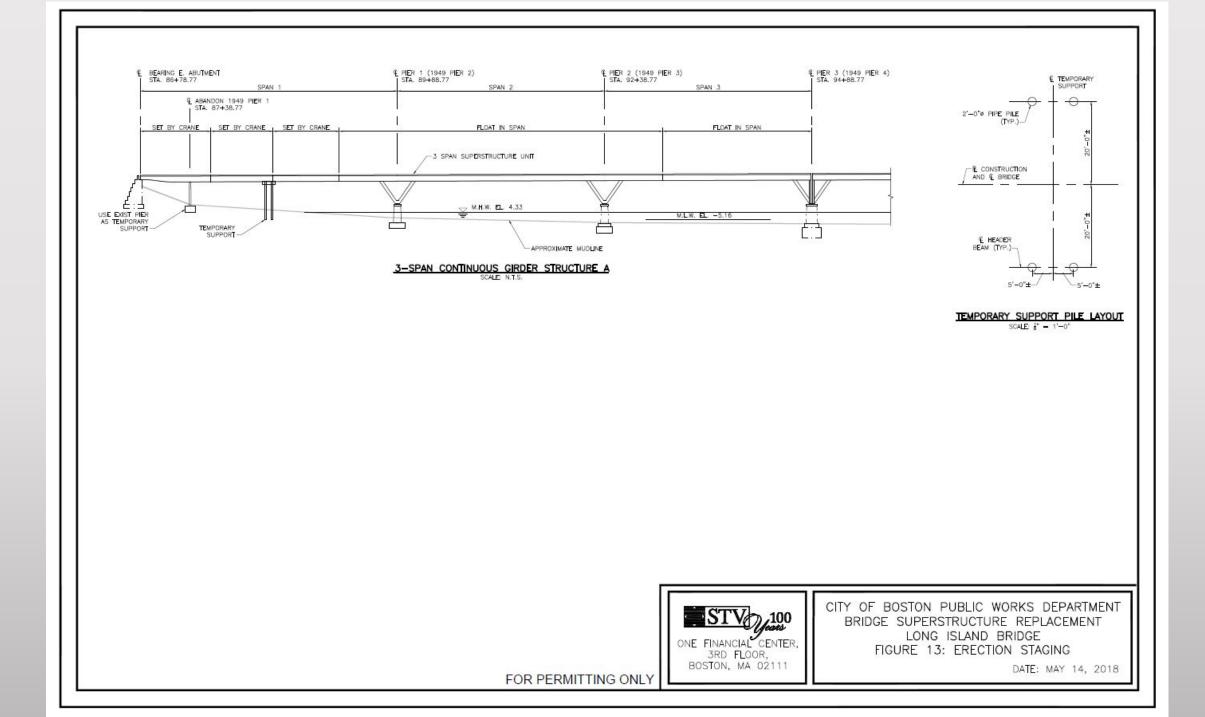


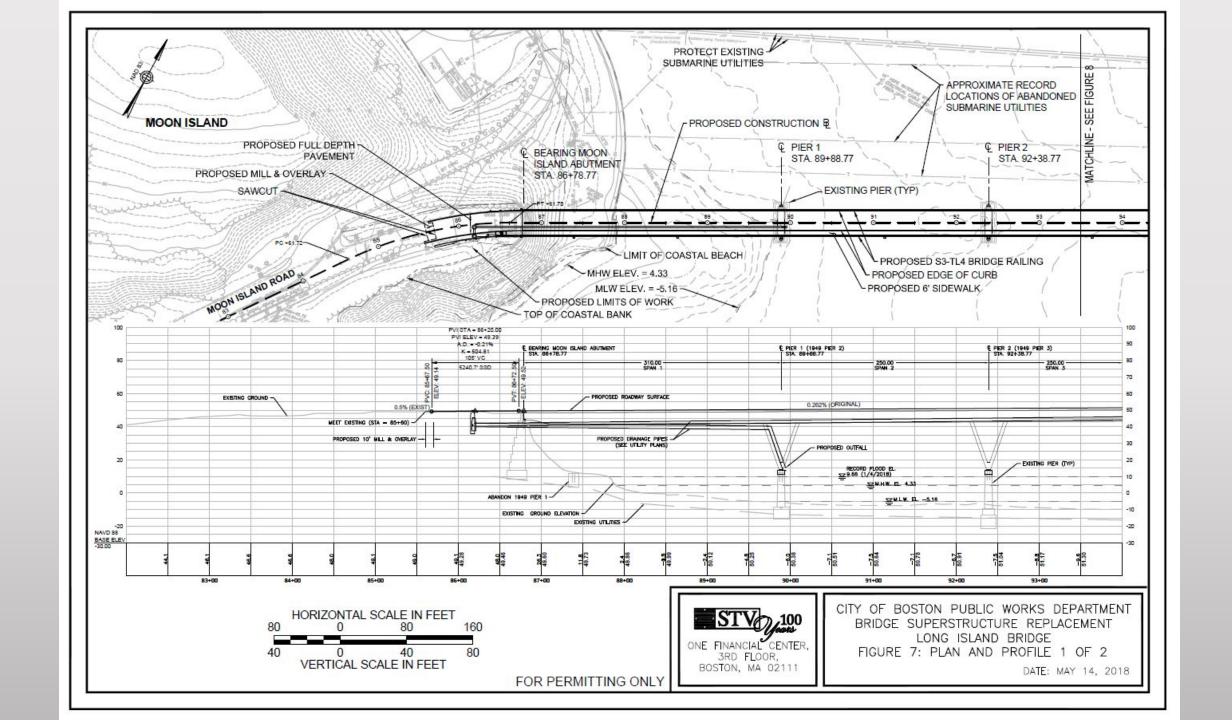


CITY OF BOSTON PUBLIC WORKS DEPARTMENT BRIDGE SUPERSTRUCTURE REPLACEMENT LONG ISLAND BRIDGE FIGURE 11: TYPICAL PIER MODIFICATIONS

DATE: MAY 14, 2018







Summary & Questions

- Land Under the Ocean: None Proposed
- Coastal Beach and Land Containing Shellfish: 80 Square Feet (Temporary)
- Coastal Bank: <u>512 Square Feet (Temporary)</u>
- Land Subject to Coastal Storm Flowage: <u>592 Square Feet (Temporary)</u>
- Buffer Zone: 126 Square Feet (Permanent)



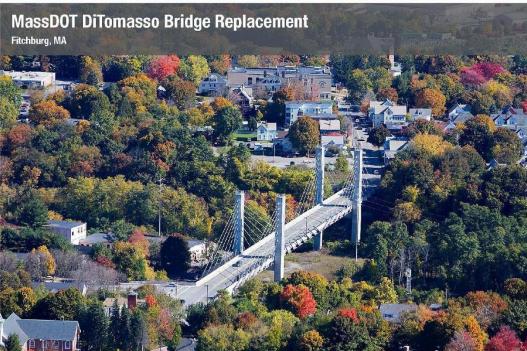
Team Bridge & Environmental Prequalifications (MassDOT)

- STV Bridge
 - Basic Bridge Design/Rating
 - Intermediate Bridge Design/Rating
 - Complex Bridge Design/Rating
 - Movable Bridge Design/Rating
 - Movable Bridge Design Inspection

- TRC
 - Major Environmental Documentation
 - Geotechnical Engineering
 - Cultural Resources
 - Hazardous Waste Site Investigation and Assessment
 - Hazardous Waste Remediation
 - Wetlands Delineation and Assessment
 - Wetlands Mitigation
 - Water Quality Assessment
 - Water Quality Mitigation









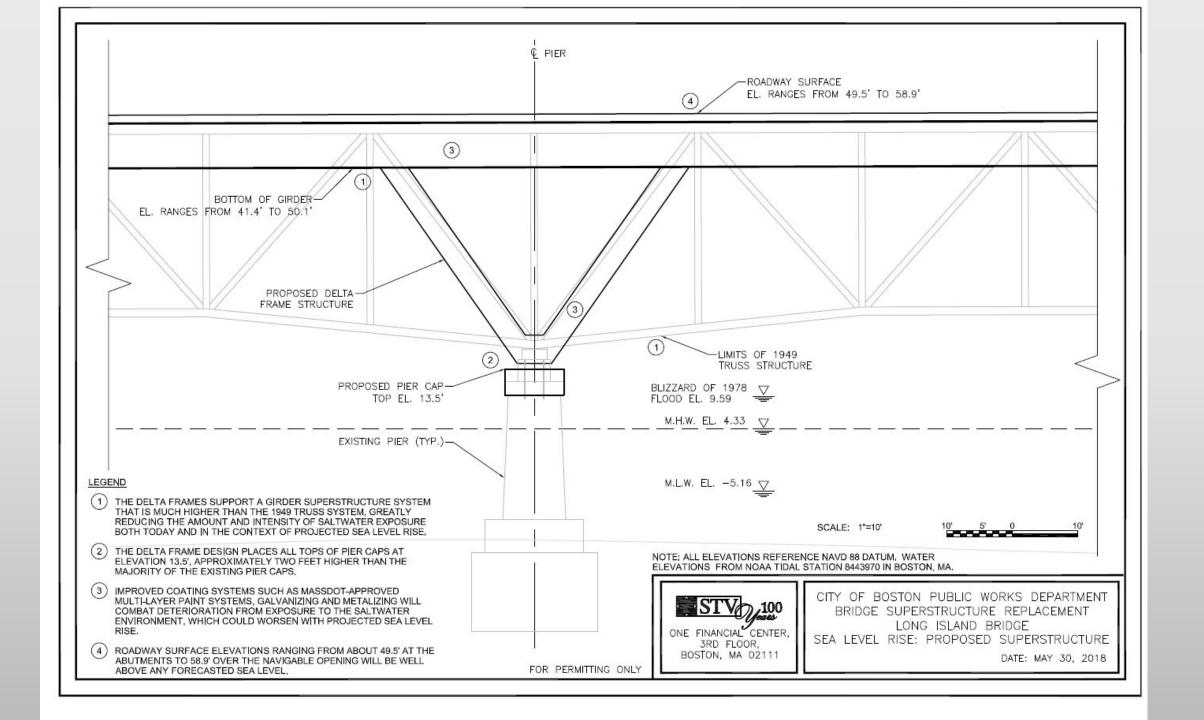


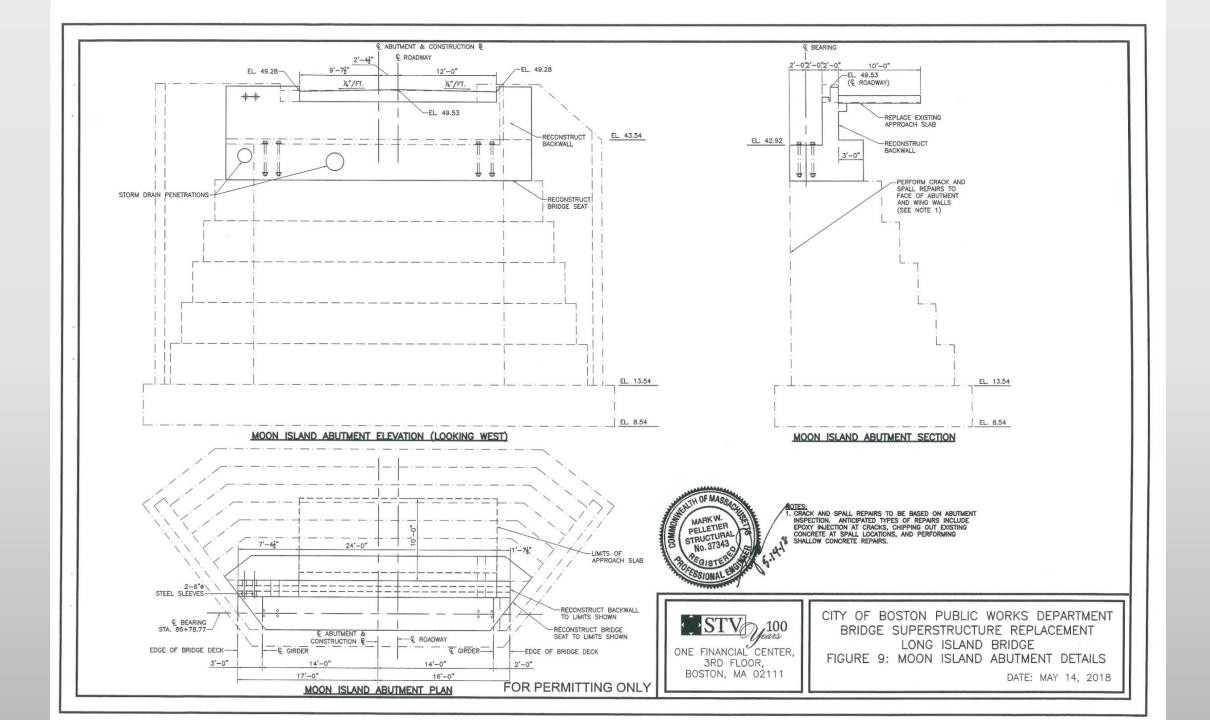


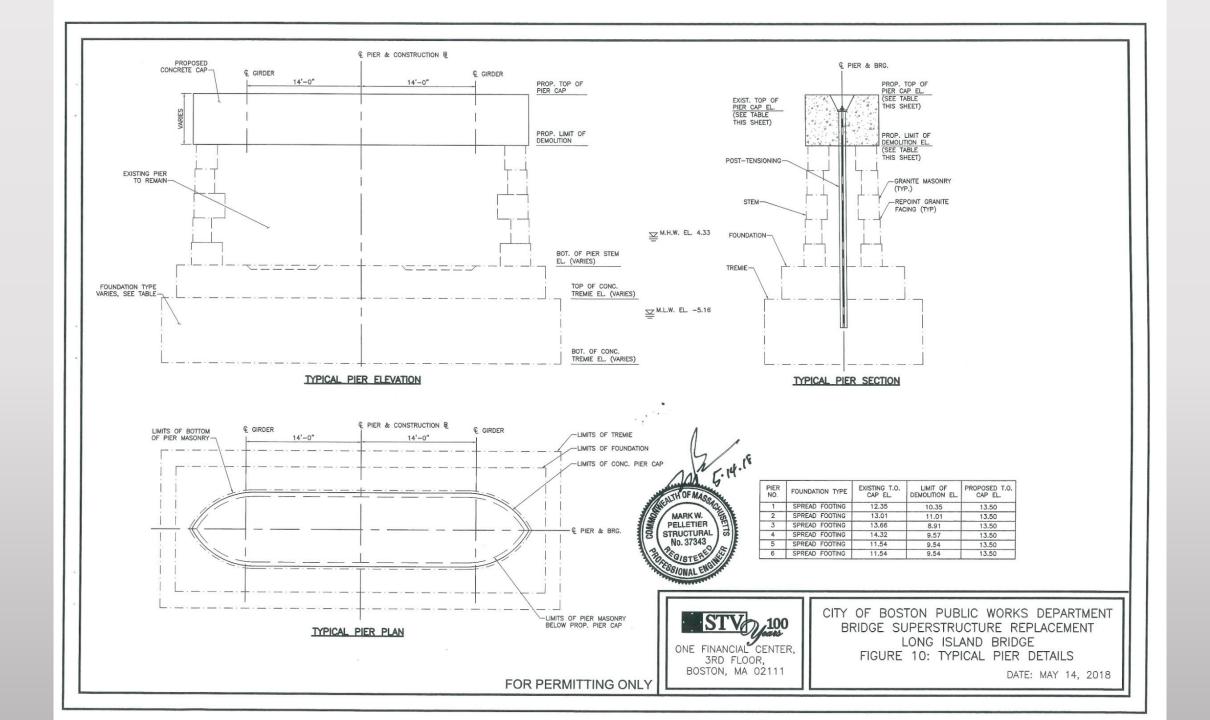


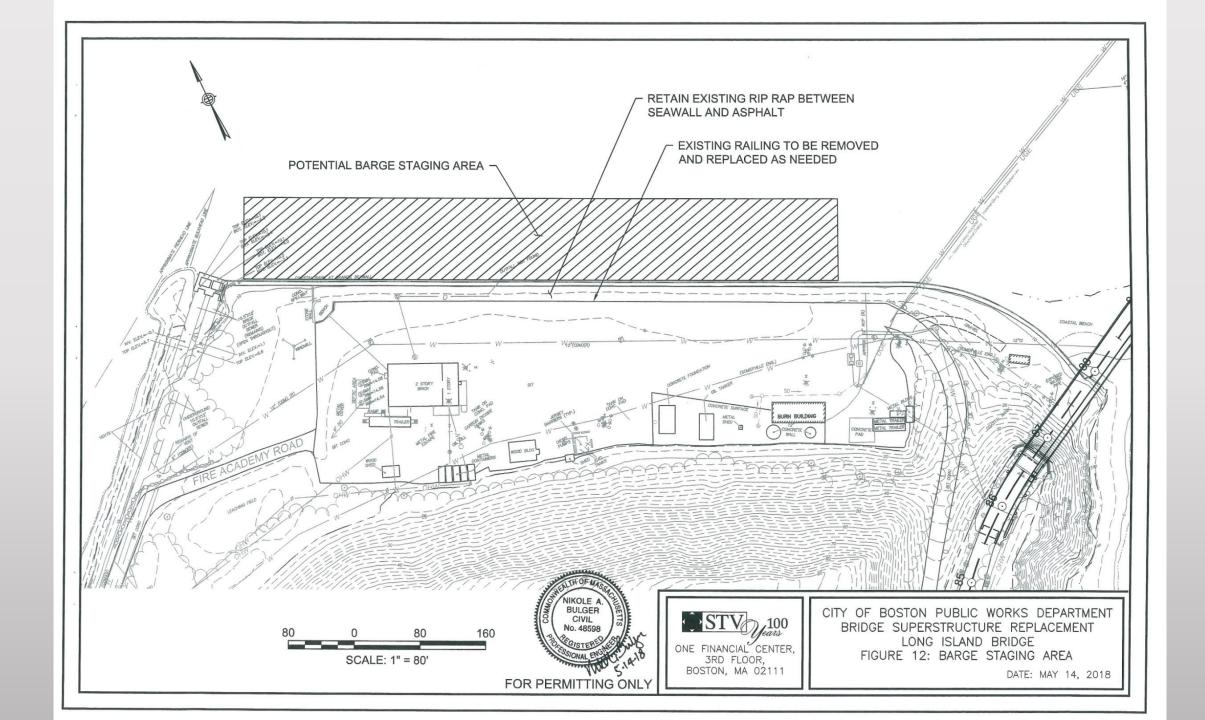


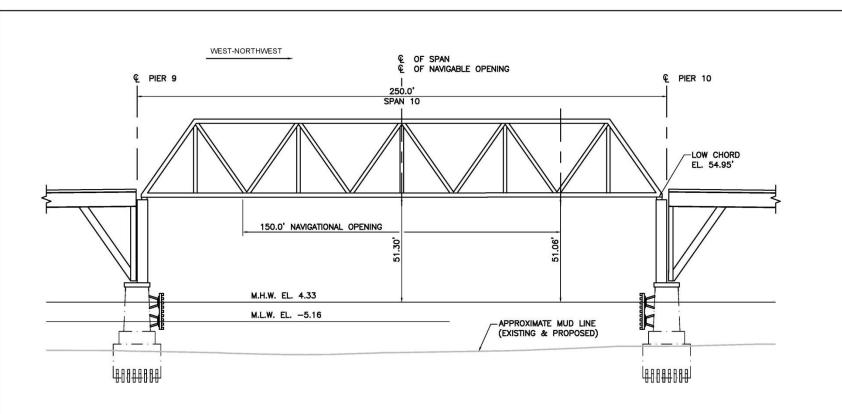
City of Boston Congress Street Bridge Rehabilitation



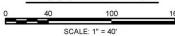








TRUSS ELEVATION



NOTES:

- 1. ELEVATIONS REFERENCE NAVD 88 DATUM.
- 2. 51.0' MINIMUM VERTICAL CLEARANCE PROVIDED WITHIN 150.0' NAVIGABLE OPENING.
- CONCEPTUAL PLANS UTILIZED TO OBTAIN COAST GUARD BRIDGE PERMIT.
- 4. NO FILL IS PROPOSED.
- 5. PER FEMA FIRM, 100-YEAR FLOOD ELEVATIONS ARE 16' (QUINCY) AND 19' (BOSTON).

OWNER/APPLICANT:



CITY OF BOSTON PUBLIC WORKS DEPARTMENT

LONG ISLAND BRIDGE OVER BOSTON HARBOR BOSTON AND QUINCY NORFOLK AND SUFFOLK COUNTY, MA

BRIDGE NO. B-16-368 (91M)

CONSULTANT: STV INC.

DATE: JUNE 6, 2018

FIGURE: 4 OF 6

United States Coast Guard Permit Requirements