

CONTRACT NO. BB-3017-0000

Eastbound Bay Bridge Deck Replacement Phase 1

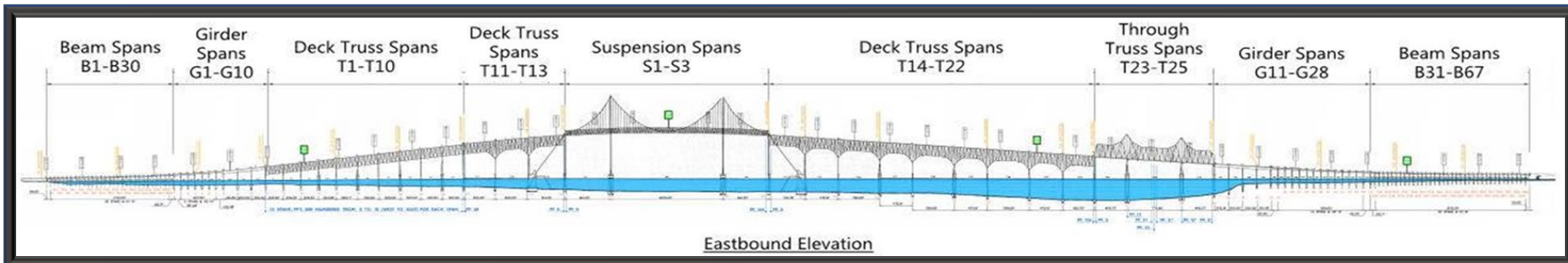
Overview

April 5, 2023



Background

- The Eastbound Bridge turned 70 years old in 2022.
- The existing deck of the bridge is more than 40 years old.
- In 2015, detailed deck studies were completed to determine remaining life for each section of the bridge.
- Deck Replacement and Rehabilitation projects will be conducted in four phases (based on condition).



Phase I : Deck Truss Spans T14-T22 and T1-T13

Need and Priority:

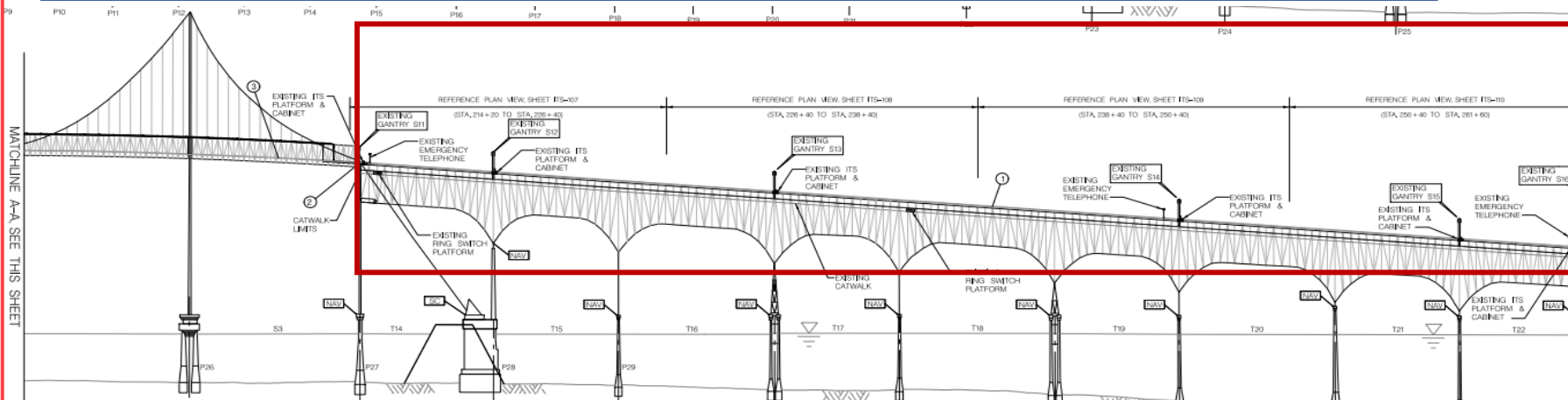
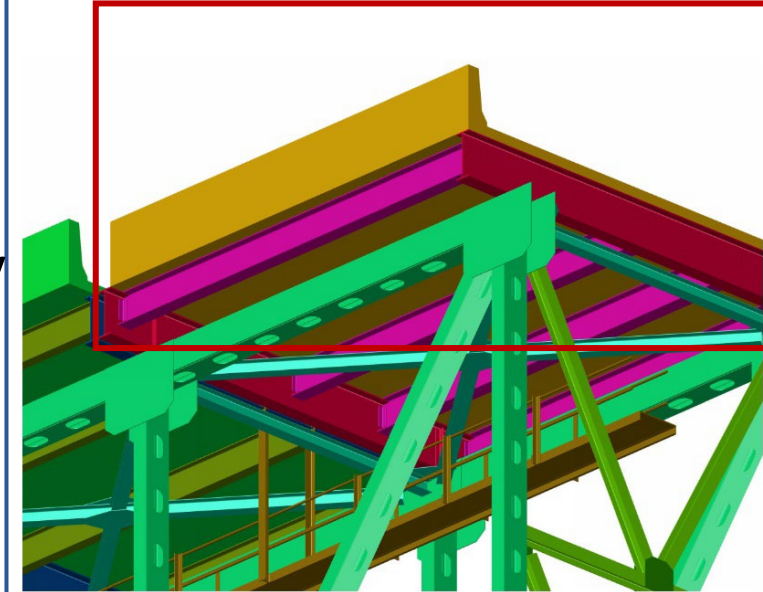
- Existing deck deterioration is extensive.
- There is significant spalling throughout deck.
- There are exposed and severed PT bars.
- Extensive deck patching has been performed
- Deck patching continues when lane closures are available.
- These spans were prioritized based on condition.
- Timing of future phases are contingent upon condition, Bay Crossing Study Tier 2 findings and will follow Phase 1 completion.



BB-3017 - Deck Truss Spans T14-T22

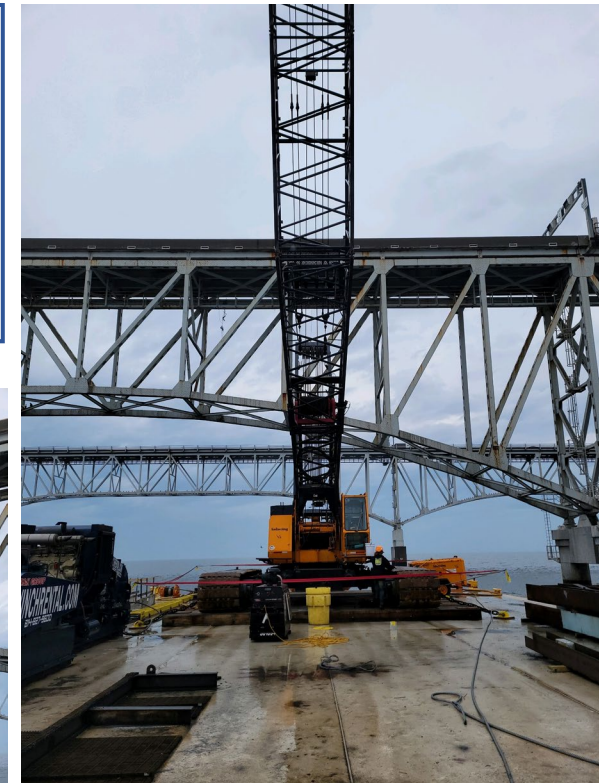
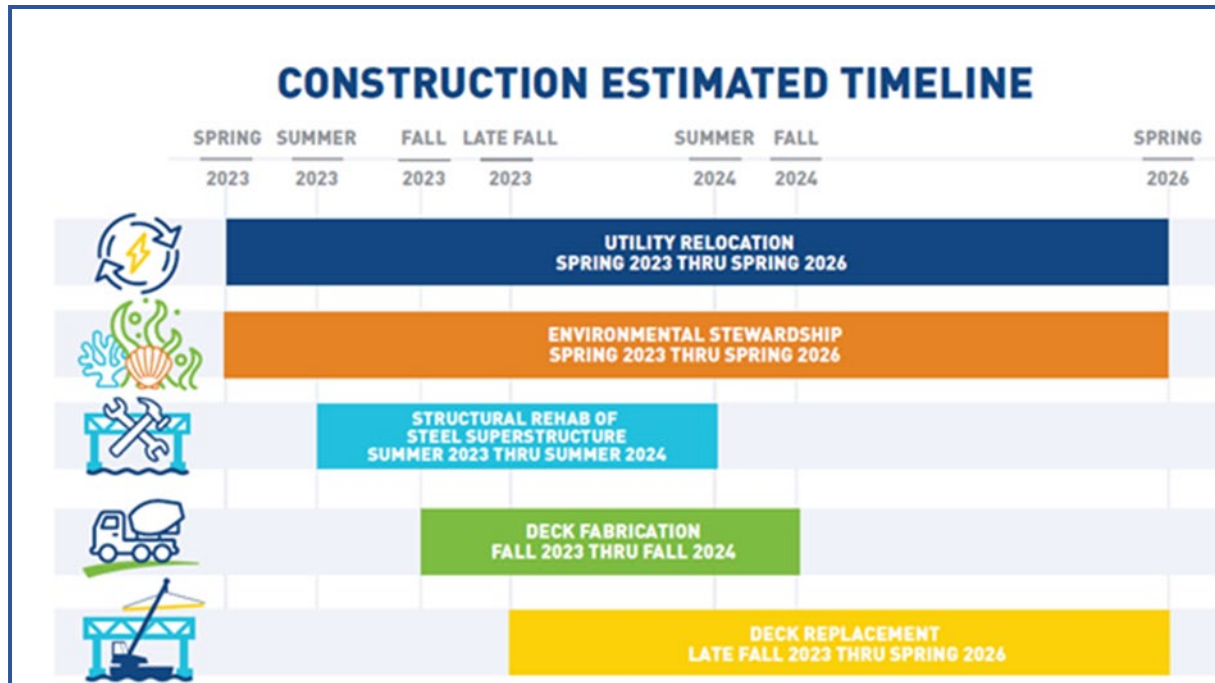
Scope of work

- Replace 4,680 feet of bridge deck and floor system
 - 156 panels (30' X 35')
- Widen deck for improved safety, operational & emergency access
- Relocate existing utilities on bridge
- Rehabilitate selected structural members
- Upgrade barrier
- Stormwater Management



Phase I: Project Timeline and Schedule

- MDTA Board Approval: October 2022
- Construction NTP: January 2023
- Mobilize Cranes/ Start Utility Relocation: March 2023
- Start Deck Replacement: Late Fall 2023
- Complete Construction: Winter 2025/2026



Project Impacts

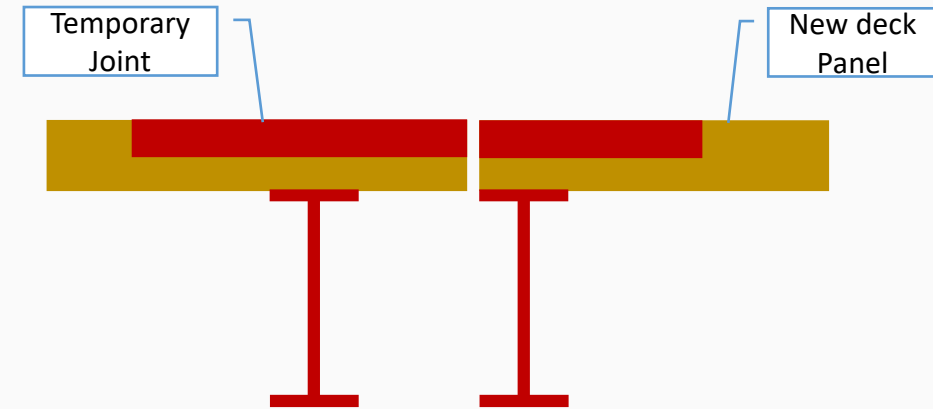
Typical Bridge and Lane Closures

- Day-time single-lane closures: 9AM-2:30PM
 - Monday – Friday during Non-Summer Months
 - Monday – Thursday during Summer Months
 - Traffic Count Dependent
- Night-time full-bridge closures
 - 10PM-5AM (Window/Length Varies by Day)
 - Traffic Count Dependent

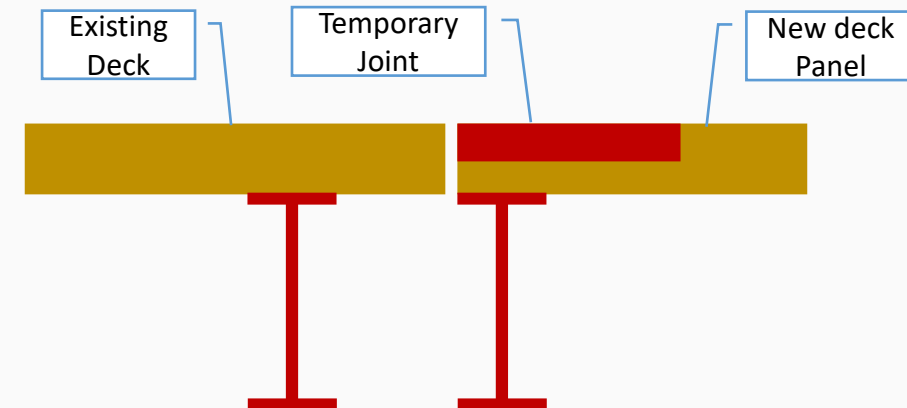
Project-specific Measures

- Access bridge from water for major work to replace deck & relocate utilities
- No-wake zone
- Recessed plates
- 3D Scans

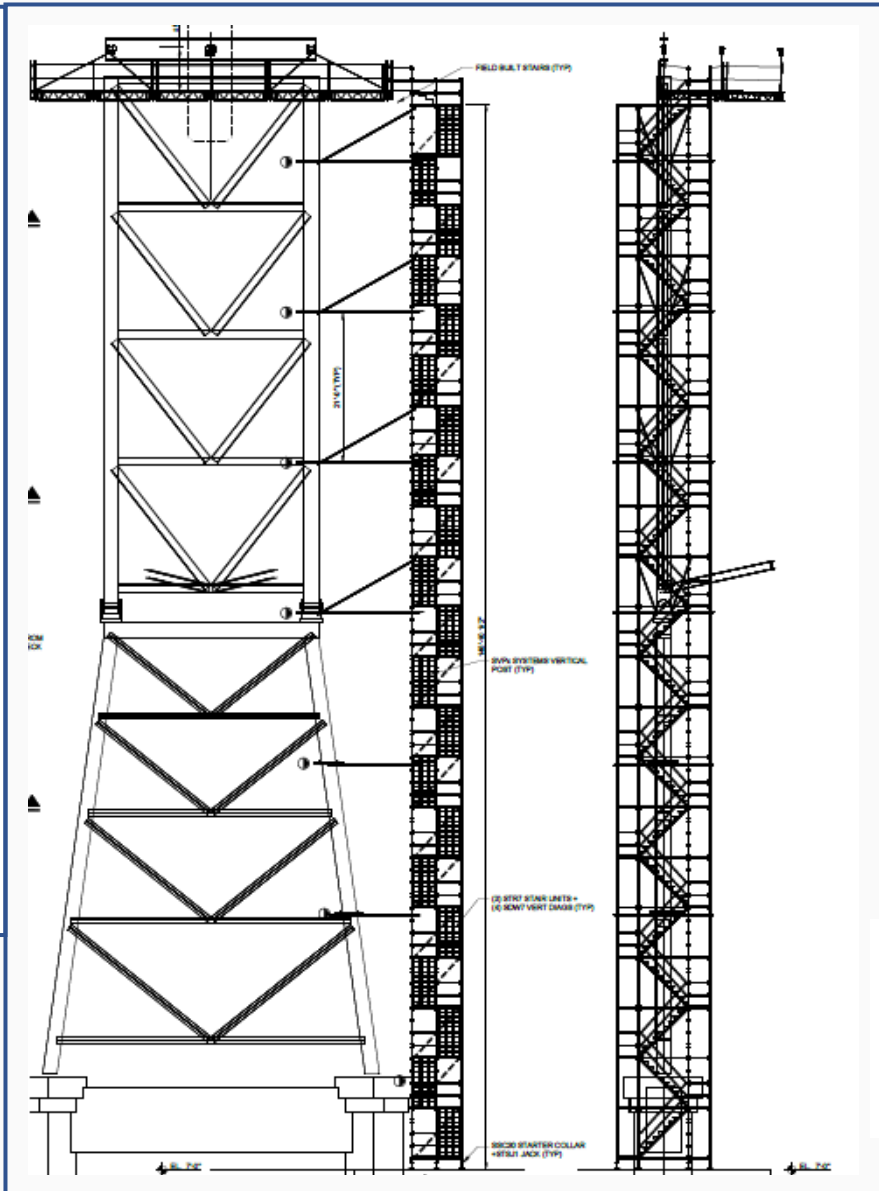
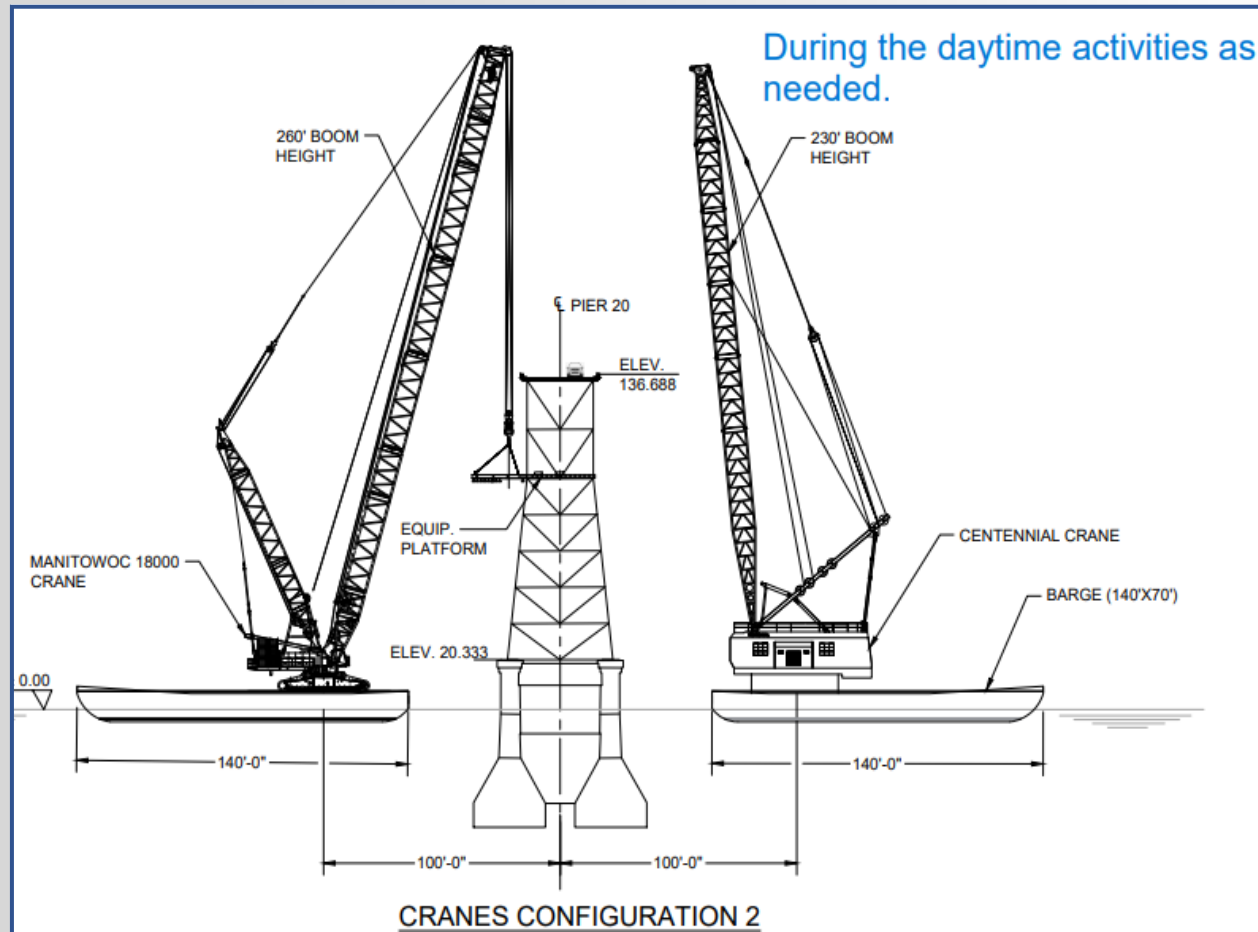
Joint Detail for New to New Deck Panel



Joint Detail for Existing Deck to New Panel



Deck Replacement Bridge Access

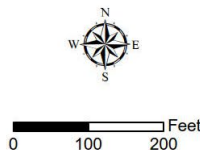


Off-site Stormwater Management & Utility Relocation Work

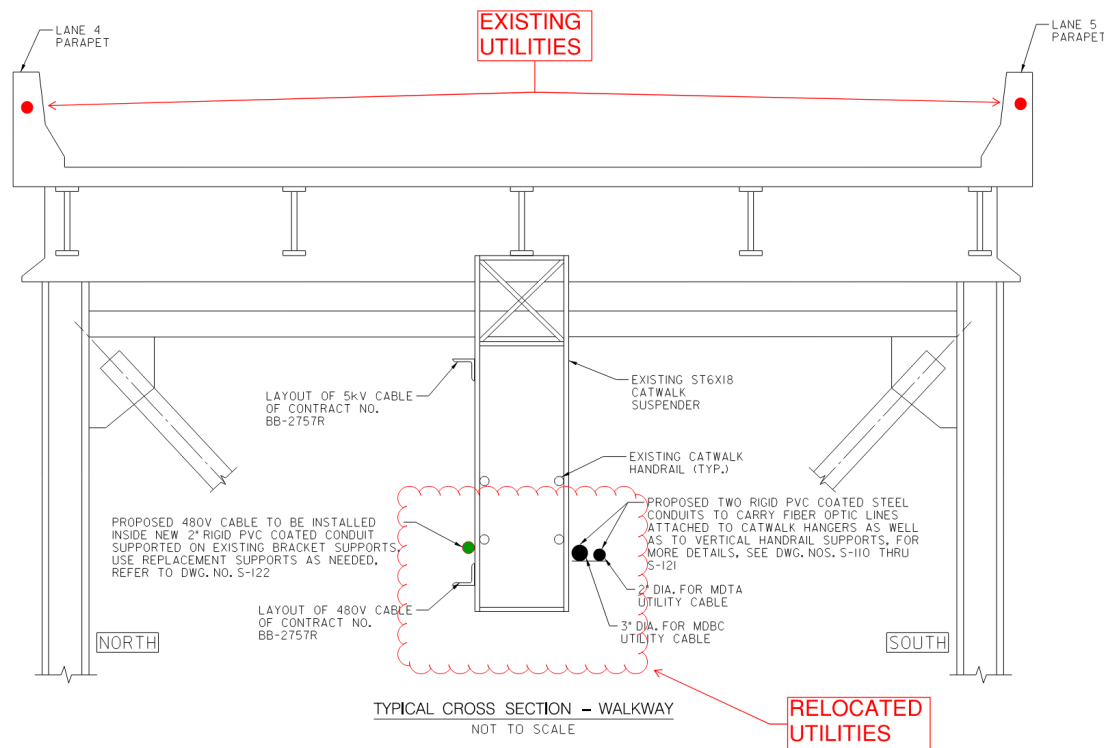


Deck Rehabilitation of the Eastbound
William Preston Lane Jr. Memorial Bridge
SWM BMP Map
Contract #: BB2726
Coordinates: 39.016600, -76.408647

April 2021



WSP USA
1 East Pratt Street
Baltimore, MD 21202



Questions?

