

Newington-Dover

Improvements to NH Rte. 16 / Spaulding Turnpike / General Sullivan Bridge

Public Information Meeting
September 5, 2018



Meeting Agenda

- Introduction and Overview
- Alternative Screening Results
- Review of Alternatives
 - Reasonable Range of Alternatives
 - Preliminary Cost Estimates
- Bike/Ped Construction Access
- GSB - Next Steps
- Contract Q Construction Update



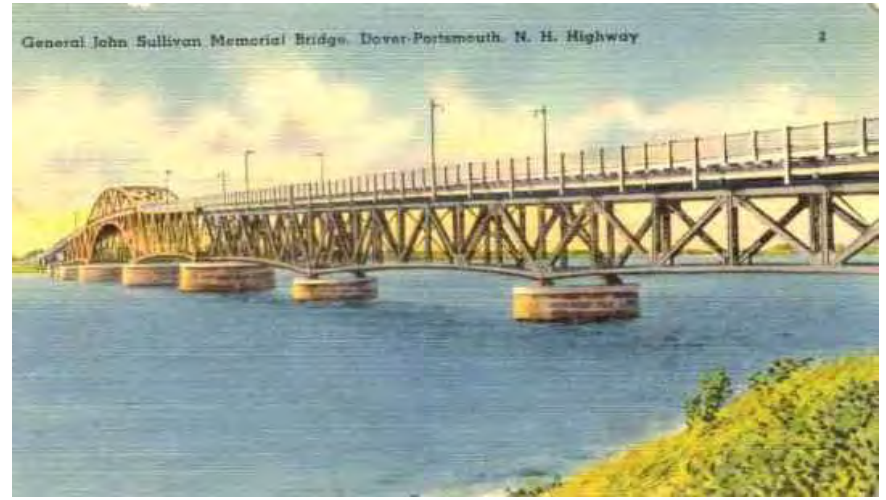
Meeting Goals

- Obtain public feedback on range of alternatives
- Solicit public opinion on construction phase bike/ped access
- Explain SEIS next steps
- Provide Dover roadway construction status update (11238Q)

GSB - Developing and Screening Alternatives

GSB is a Historic Structure

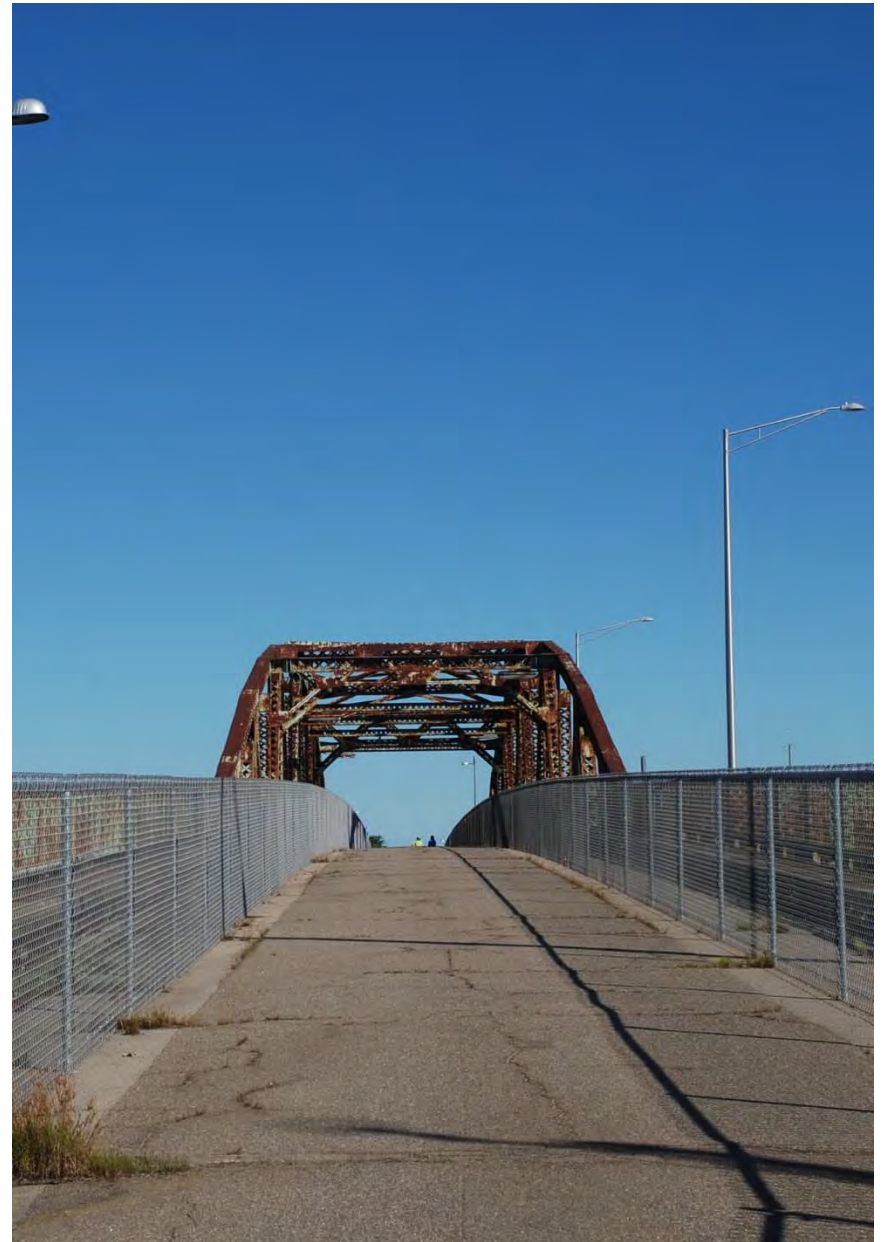
- **Eligible** for listing on the **National Register of Historic Places**
- Significant at both the state and national levels
- Protection under federal law for eligible properties are:
 - **Section 106** of the National Historic Preservation Act
 - **Section 4(f)** of the USDOT Act
- Historic Preservation under NH Law:
 - **RSA 227-C:9** Directive for Cooperation in the Protection of Historic Resources



Supplemental EIS Project Purpose

Project Purpose

“To provide access and connectivity between Newington and Dover, across Little Bay, for non-motorized use.”



Range of Evaluated Alternatives

- Alt 1: Rehabilitation of General Sullivan Bridge
- Alt 2: Superstructure Replacement – Truss Alternative
- Alt 3: Partial Rehabilitation
- Alt 4: Complete Replacement
- Alt 5: Reconfigure Southbound Little Bay Bridge
- Alt 6: Southbound Little Bay Bridge - Widened Deck on Pier Extension
- Alt 7: Southbound Little Bay Bridge - Independent Deck on Pier Extension
- Alt 9: Superstructure Replacement – Girder Alternative

Screening Criteria

- **Purpose and Need:** Alternative meets the project Purpose and Need - To provide bicycle and pedestrian access between Dover and Newington. This criterion also considers how well the alternative meets the project Purpose and Need.
- **Feasibility:** Alternative is reasonable and practical from a technical standpoint. Alternative can be implemented using existing techniques and materials, within a practical duration, and without excessive impacts on the environment or the transportation network.
- **Cost:** Alternative has construction and life cycle costs that are not excessive in comparison with other reasonable alternatives.

Screening Criteria

- **Safety - User Safety:** Alternative provides a safe and efficient crossing for vehicular and non-motorized travel across the span, minimizing deviations from the design standards for roadways and bridges.
- **Safety – Inspection and Emergency Access:** Alternative provides safe means for inspection, maintenance, and emergency vehicle access.
- **Transportation Capacity:** Alternative maintains or improves existing vehicle capacity across the Little Bay Bridge, with no decrease in the number or width of travel lanes or shoulders.
- **Cultural Resource Impacts:** Alternative preserves some or all of the GSB.

Screening Matrix

Alternative	Screening Criteria							Advances to Detailed Study in SEIS?
	Purpose and Need	Feasibility	Estimated Costs - DRAFT (Initial Capital Costs/Life Cycle Cost, 2018 Dollars)	Safety – User Safety	Safety - Inspection and Emergency Access	Transportation Capacity	Cultural Resource Impacts	
Alternative 1C: Rehabilitation – 12' Wide Path	●	●	\$39.0M/\$70.0M	●	●	●	●	N
Alternative 1D: Rehabilitation – 16' Wide Path	●	●	\$39.75M/\$70.75M	●	●	●	●	Y
Alternative 2D: Superstructure Replacement - Truss Alternative – 12' Wide Path	●	●	\$32.0M/\$38.25M	●	●	●	●	N
Alternative 2E: Superstructure Replacement - Truss Alternative – 16' Wide Path	●	●	\$32.75M/\$39.0M	●	●	●	●	N
Alternative 3C: Partial Rehabilitation- 16' Wide Path	●	●	\$37.0M/\$56.5M	●	●	●	●	N
Alternative 4C: Complete Replacement – 16' Wide Path	●	●	\$31.0M/\$31.0M	●	●	●	○	N
Alternative 5: Reconfigure Southbound Little Bay Bridge	○	●	-	○	○	●	●	N
Alternative 6A: Southbound Little Bay Bridge - Widened Deck on Pier Extension (Minimum Roadway/Minimum Path)	●	●	-	●	●	○	●	N
Alternative 6B: Southbound Little Bay Bridge - Widened Deck on Pier Extension (Desirable Roadway/Minimum Path)	●	●	\$22.5M/\$25.75M	●	●	●	●	N
Alternative 6C: Southbound Little Bay Bridge - Widened Deck on Pier Extension (Desirable Roadway/Desirable Path)	●	●	\$23.0M/\$26.5M	●	●	●	●	Y
Alternative 7B: Southbound Little Bay Bridge - Independent Deck on Pier Extension – 16' Wide Path	●	●	\$24.75/\$27.75M	●	●	●	●	Y
Alternative 9B: Superstructure Replacement – Girder Alternative – 16' Wide Path	●	●	\$23.5M/\$26.5M	●	●	●	●	Y

○ Does not perform well ● Performs adequately ● Performance exceeds other reasonable alternatives

Review of Alternatives

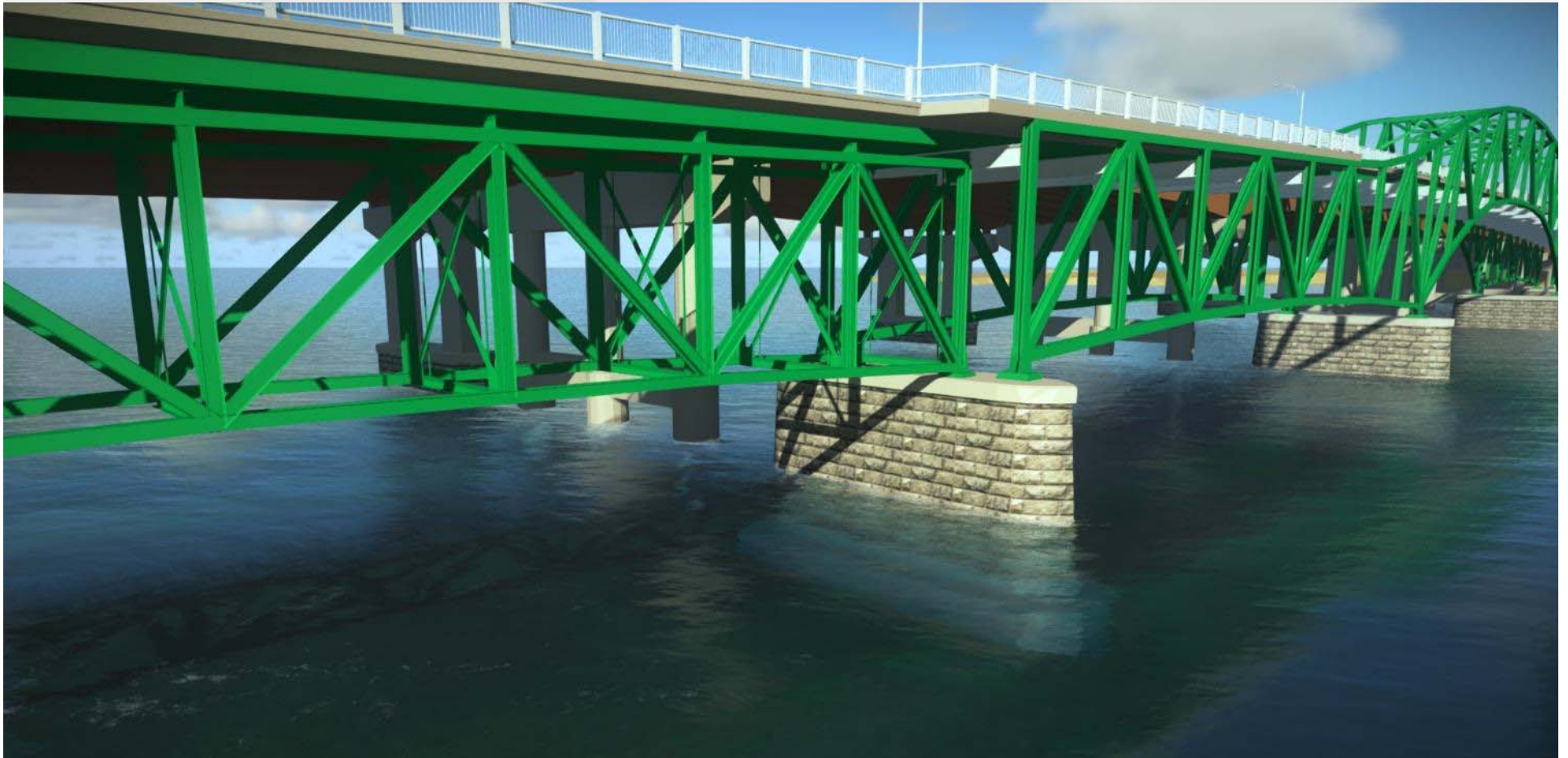
Alternative 1 – Rehabilitation of General Sullivan Bridge



Alternative 1 – Rehabilitation of General Sullivan Bridge



Alternative 1 – Rehabilitation of General Sullivan Bridge



Alternative 1 – Rehabilitation of General Sullivan Bridge



Alternative 6 – Southbound Little Bay Bridge – Widened Deck on Pier Extension



Alternative 6 – Southbound Little Bay Bridge – Widened Deck on Pier Extension



Alternative 6 – Southbound Little Bay Bridge – Widened Deck on Pier Extension



Alternative 6 – Southbound Little Bay Bridge – Widened Deck on Pier Extension



Alternative 7 – Southbound Little Bay Bridge – Independent Deck on Pier Extension



Alternative 7 – Southbound Little Bay Bridge – Independent Deck on Pier Extension



Alternative 7 – Southbound Little Bay Bridge – Independent Deck on Pier Extension



Alternative 7 – Southbound Little Bay Bridge – Independent Deck on Pier Extension



Alternative 9 – Superstructure Replacement – Girder Alternative (Haunch)



Alternative 9 – Superstructure Replacement – Girder Alternative (Haunch)



Alternative 9 – Superstructure Replacement – Girder Alternative (Haunch)



Alternative 9 – Superstructure Replacement – Girder Alternative (Haunch)



Alternative 9 – Superstructure Replacement – Girder Alternative (V-Frame)



Alternative 9 – Superstructure Replacement – Girder Alternative (V-Frame)



Alternative 9 – Superstructure Replacement – Girder Alternative (V-Frame)



Alternative 9 – Superstructure Replacement – Girder Alternative (V-Frame)



Cost Estimates

Conceptual Cost Estimating

- **Cost Estimates**

- Initial Capital and Life Cycle maintenance costs were developed for Alternatives 1, 2, 3, 4, 6, 7 and 9.
- Under each alternative, costs for a 12' wide and a 16' wide multi-use path width were developed for comparison.

- **Initial Capital Cost**

- This is initial construction cost to bring the alternative into service.

- **Life Cycle Cost**

- Reflects the entire capital investment required for each alternative. It is the summation of Initial Capital Cost, and cost of maintaining the structure through the assumed 75 year planning horizon.

General Sullivan Bridge - Alternative Initial Capital and Life Cycle Cost Estimate Summary

SEIS Cost Estimates:				
Alt:	Description:	Initial Capital Cost	Life Cycle Cost (Constant Value)	Width Increase
1C	Rehabilitation of the GSB - 12' Wide Path	\$39,000,000	\$70,000,000	1.7%
1D	Rehabilitation of the GSB - 16' Wide Path	\$39,750,000	\$70,750,000	
2D	Superstructure Replacement – Truss Alternative - 12' Wide Path	\$32,000,000	\$38,250,000	2.6%
2E	Superstructure Replacement – Truss Alternative - 16' Wide Path	\$32,750,000	\$39,000,000	
3B	Partial Rehabilitation - 12' Wide Path	\$36,000,000	\$55,250,000	2.5%
3C	Partial Rehabilitation - 16' Wide Path	\$37,000,000	\$56,500,000	
4B	Complete Replacement - 12' Wide Path	\$30,750,000	\$30,750,000	0.8%
4C	Complete Replacement - 16' Wide Path	\$31,000,000	\$31,000,000	
6B	Southbound LBB – Widened Deck on Pier Extension - 12' Wide Path	\$22,500,000	\$25,750,000	2.1%
6C	Southbound LBB – Widened Deck on Pier Extension - 16' Wide Path	\$23,000,000	\$26,500,000	
7A	Southbound LBB – Independent Deck on Pier Extension - 12' Wide Path	\$24,500,000	\$27,250,000	1.0%
7B	Southbound LBB – Independent Deck on Pier Extension - 16' Wide Path	\$24,750,000	\$27,750,000	
9A	Superstructure Replacement – Girder Alternative - 12' Wide Path	\$23,250,000	\$26,250,000	1.0%
9B	Superstructure Replacement – Girder Alternative - 16' Wide Path	\$23,500,000	\$26,500,000	

 = Alternatives for Further SEIS Evaluation

 = Screened Out

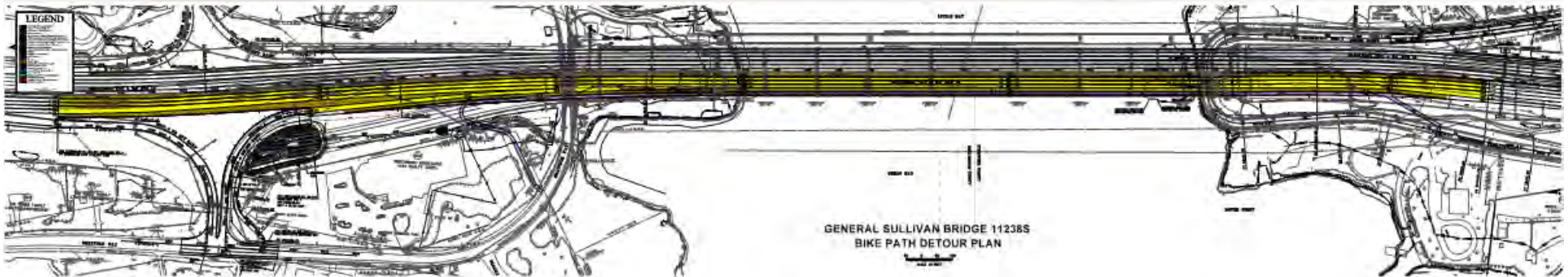
Bicycle/Pedestrian Construction Access

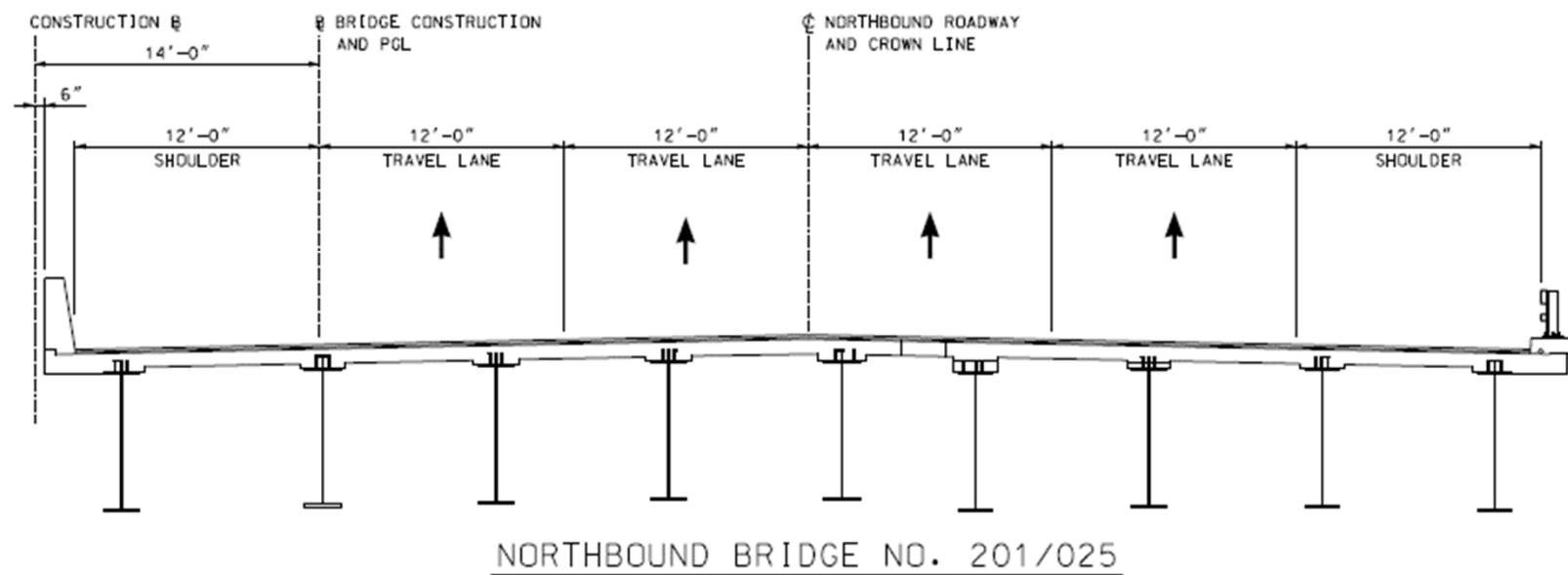
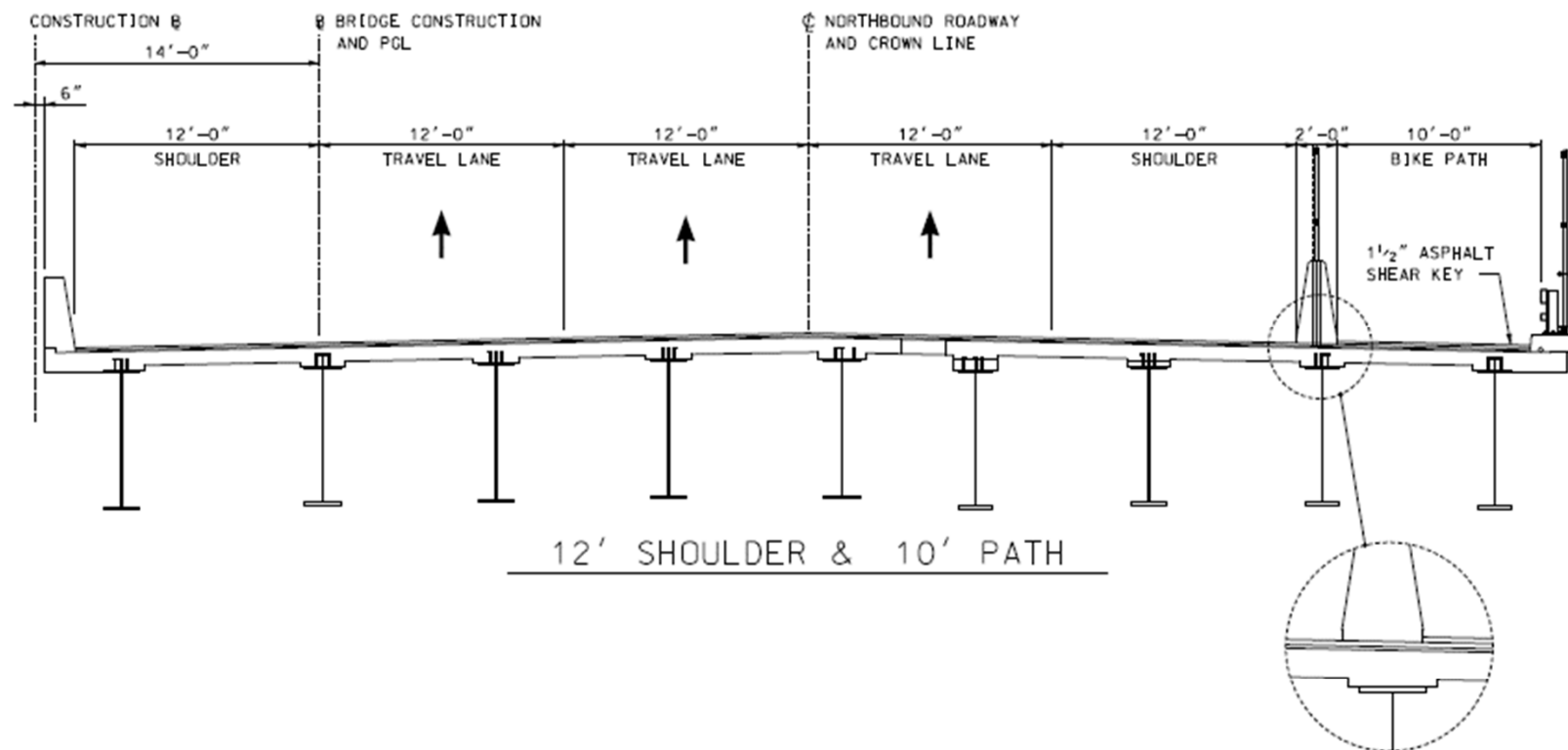
Bike/Ped. Access Option 1: Shuttle Bus



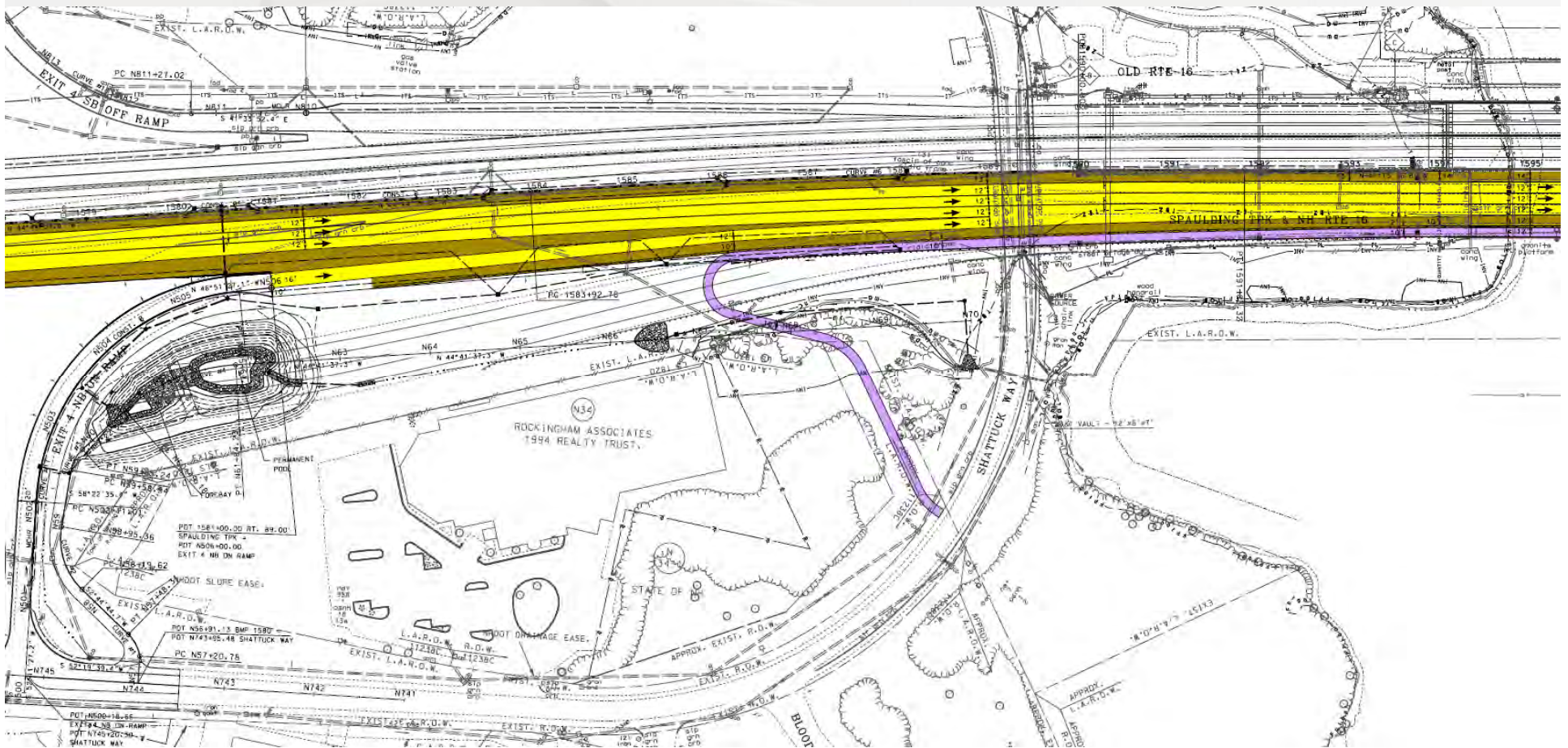
Bike/Ped. Access Option 2: NB LBB Multi-Use Path Detour

- **Construct & Remove**
 - 10-foot Multi-Use Path
 - Barrier/Fencing
 - Temporary Approaches
 - Signing and pavement marking modifications



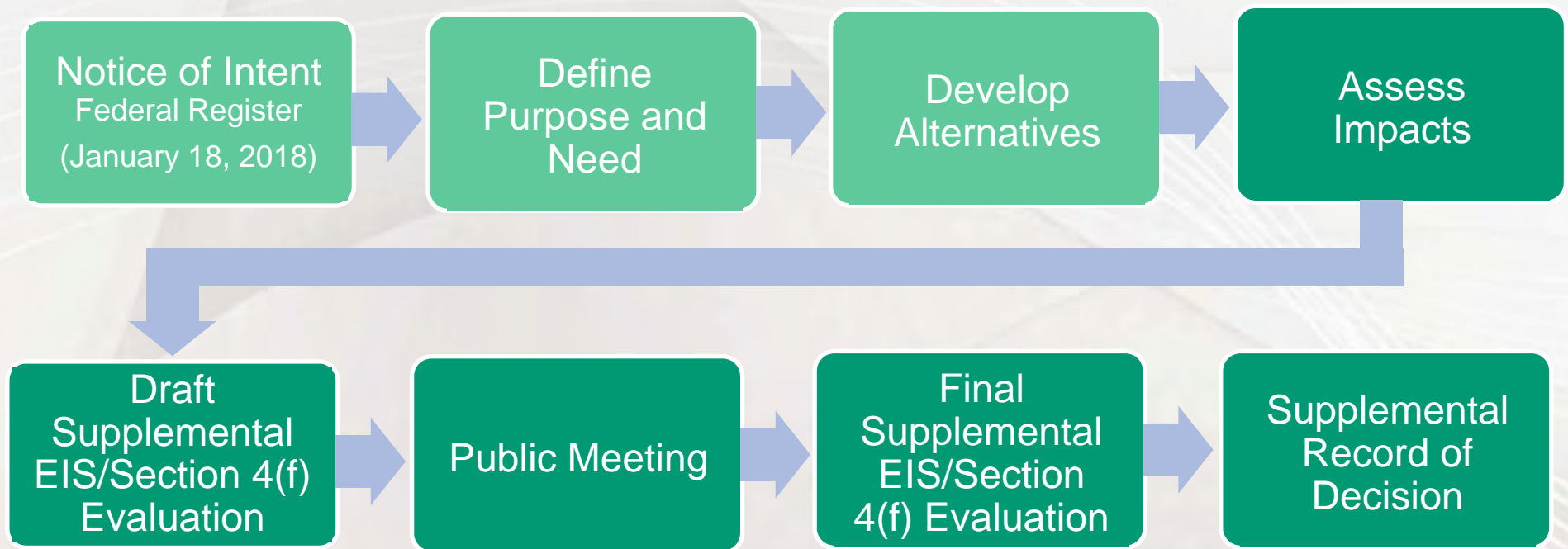


Bike/Ped. Access Option 2: NB LBB Multi-Use Path Detour



General Sullivan Bridge Next Steps

Supplemental EIS



National Historic Preservation Act

Section 106 – Consulting Parties

Interested persons or organizations may request **Consulting Party** status from FHWA:

Jamie Sikora
Environmental Program Manager
Federal Highway Administration
NH Division Office
53 Pleasant Street, Suite 200
Concord, NH 03301
Jamie.Sikora@fhwa.dot.gov



**SECTION 106
CONSULTING PARTY
PROCESS
IN NEW HAMPSHIRE**

In the National Historic Preservation Act (NHPA), Congress established a comprehensive program to preserve the historical and cultural foundations of the Nation as a living part of community life. Section 106 of NHPA is crucial to that program, because it requires consideration of historic preservation in the multitude of Federal actions that take place nationwide and throughout New Hampshire.

Section 106 requires Federal agencies to consider the effects of their actions on historic properties and provide the Advisory Council on Historic Preservation (ACHP) an opportunity to comment on Federal projects prior to implementation.

For more information on how you can become a consulting party contact:

Jamie Sikora
Environmental Program Manager
Federal Highway Administration
NH Division Office
53 Pleasant Street, Suite 2200
Concord, NH 03301
Jamie.Sikora@fhwa dot gov

Historic properties should be maintained.

More Information:

<https://www.nh.gov/dot/org/projectdevelopment/environment/units/program-management/cultural.htm>

Supplemental EIS – Public Participation

Public Participation is critical to the NEPA (SEIS) process, and required by Section 106 and Section 4(f)

Public Meeting #1 (January 30, 2018)

- Draft Purpose and Need
- SEIS Process
- Consulting Party Invitation

Public Meeting #2 (September 5, 2018)

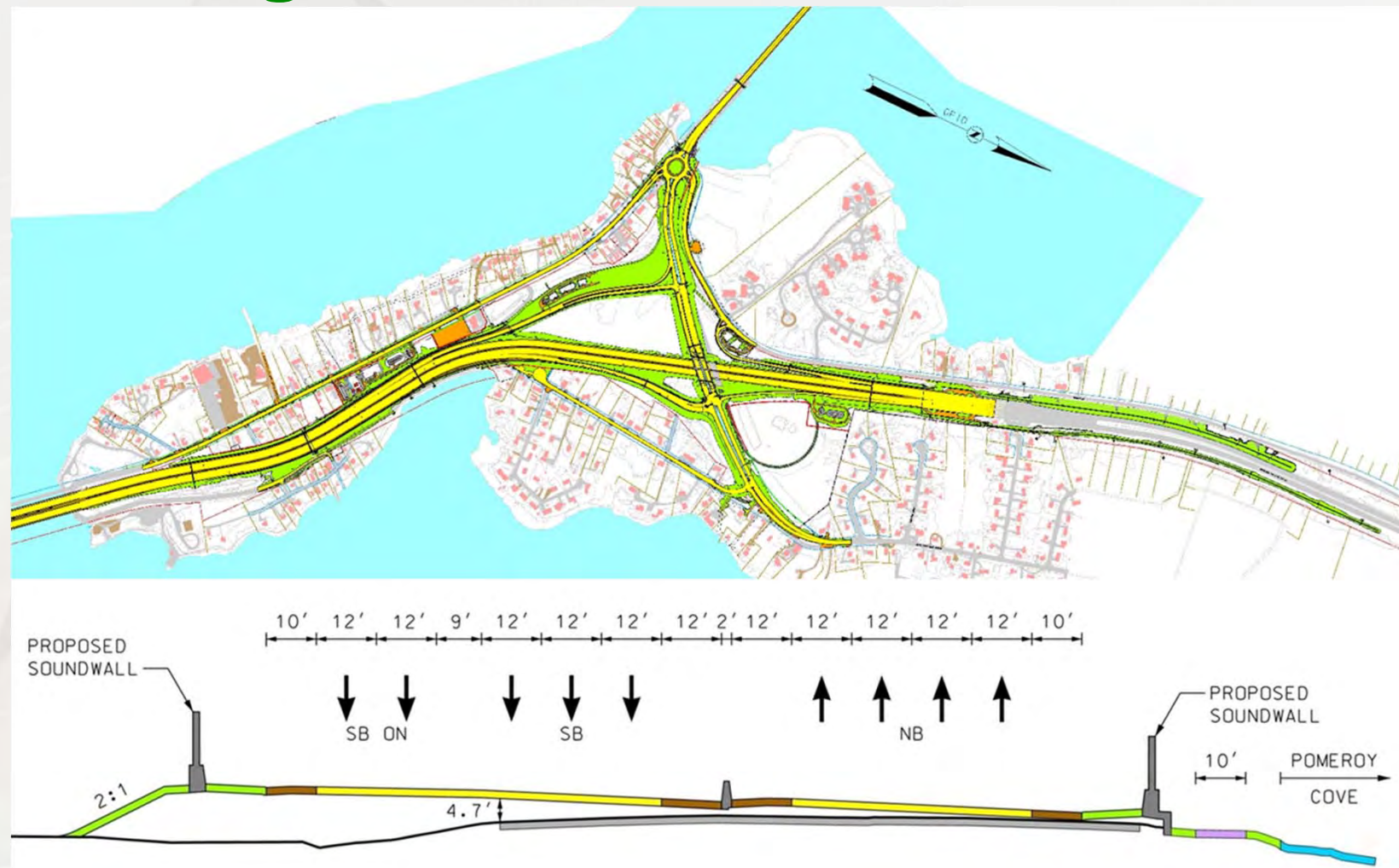
- Alternatives Screening
- Review Reasonable Range of Alternatives

Public Meeting #3 (Winter 2018/2019)

- Presentation of Preferred Alternative
- Public Input on Draft SEIS

Contract Q Construction Update

Newington-Dover 11238Q



September 2018 Project Update

Work Ongoing - Northbound **Spaulding Tpk. Newington**

**Construction of southern approach to Little Bay Bridge continues
Anticipated to be in service November 2018**



Work Ongoing - Northbound **Spaulding Tpk. Dover**

Surcharge Waiting Periods are complete.
This allows for permanent roadway construction
Roadway to be in service November 2018.



Work Ongoing - Exit 6 Northbound Off Ramp

The new ramp will be put into service November 2018.

Existing Exit 6W Loop Ramp will close at that time.



Work Ongoing - New Route 4 Bridge at Exit 6

Bridge was put into service August 30th



Work Ongoing - Soundwalls

Work continues on the Soundwalls south of Exit 6

Soundwall 1 –

West Side of Spaulding Turnpike.
South of Exit 6

Completion in 2020

Soundwall 2 –

East Side of Spaulding Turnpike.
South of Exit 6

Completion in 2019

Soundwall 3 –

West Side of Spaulding Turnpike.
North of Exit 6

Complete

Soundwall 4 –

East Side of Spaulding Turnpike.
North of Exit 6

Complete



Work Ongoing – Dover Point Road (West) Reconstruction

Sidewalk and Driveway Work continues.
Anticipated completion in fall of 2018.



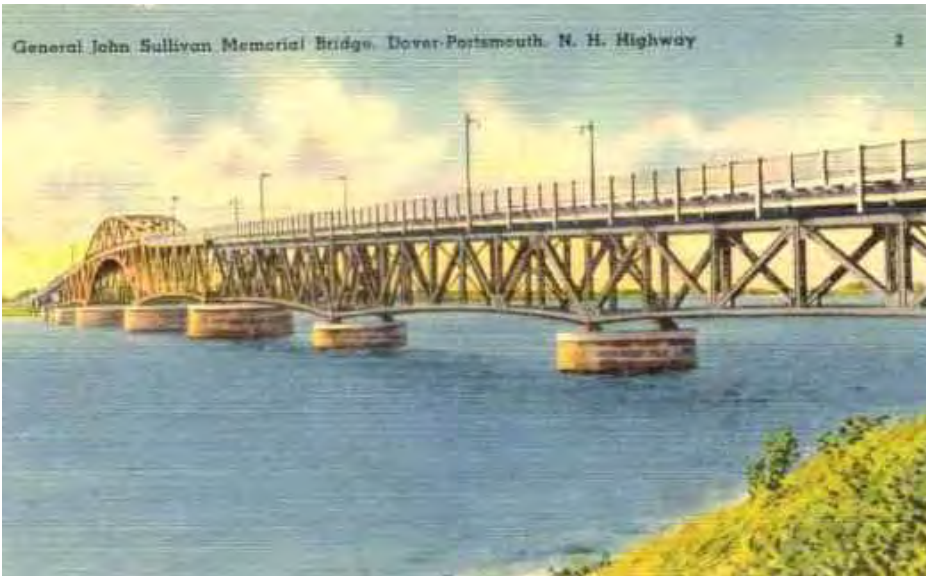
Upcoming Work -

Demo of Existing Exit 6 Bridge – Requires Nighttime Work and Traffic Detours

Closure of Exit 5 Northbound On Ramp – Scheduled for Sept 11. Traffic will be detoured to Exit 4 to access Northbound

Construction of Exit 6 Northbound On Ramp – To be opened in November 2018

Traffic shift onto Northbound Little Bay Bridge – anticipated 2 lanes onto bridge in November 2018.



Thank You!

Questions/Comments?

<http://www.newington-dover.com/>

