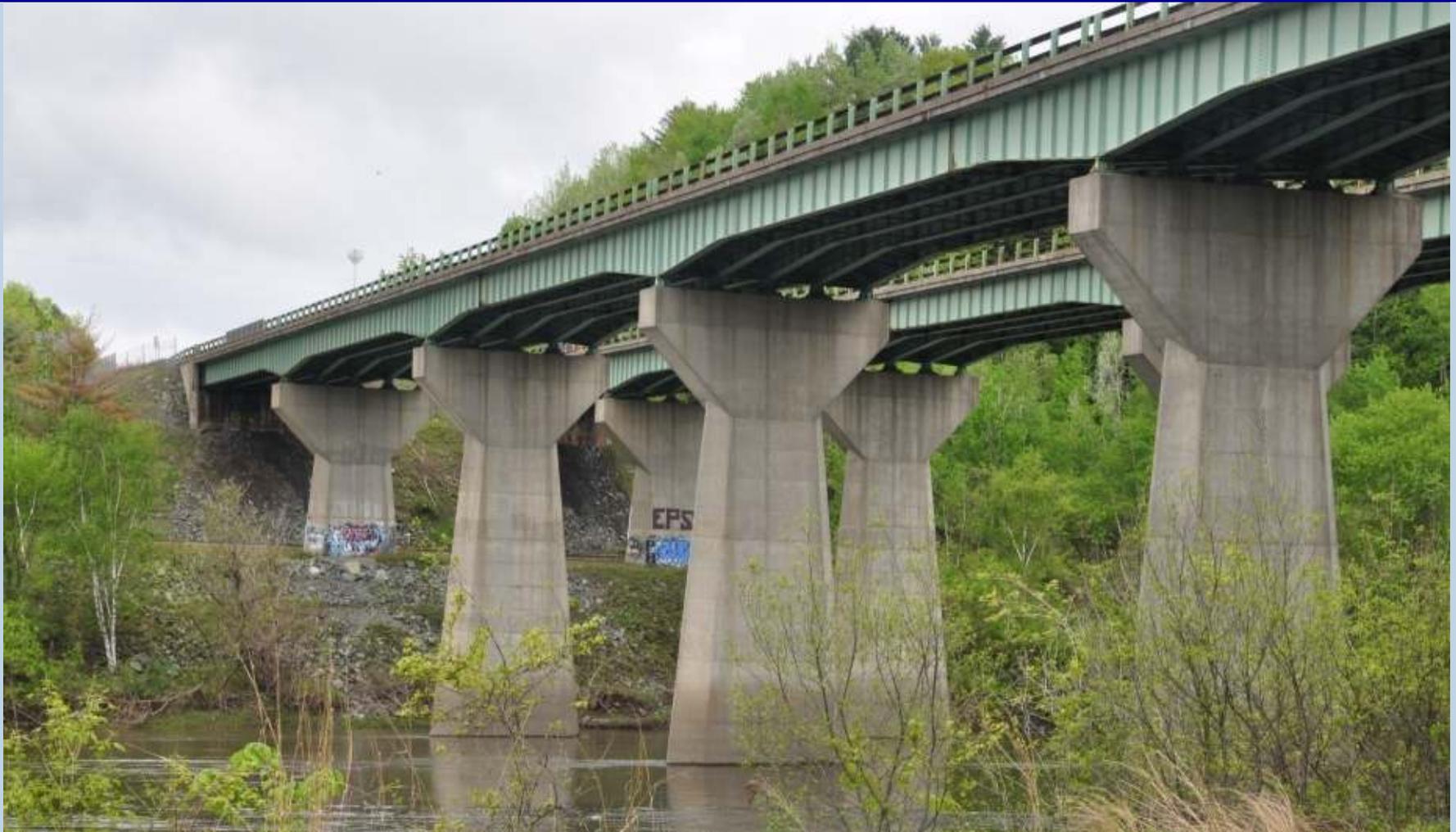# LEBANON, NH – HARTFORD, VT 16148

I-89 N.B. & S.B. over the Connecticut River
& New England Central R.R.

Purpose of Meeting

➢ Review Existing Bridge Conditions

➢ Review Proposed Bridge Improvements

➢ Review Traffic Control Strategy

➢ Review Natural & Cultural Resources

➢ Review Project Cost & Schedule

➢ Seek Public Input

Regional Overview

Existing Bridges

➤ ## Originally Constructed in 1966
- Deck Repaired in 1984
- Deicing System Installed on S.B. Bridge in 2006
- Major Structural Steel Repairs in 2011

➤ ## Existing Bridge Condition
- Structurally Deficient - State Redlist
- Deck in Poor Condition
- Substructure in Satisfactory Condition
- Bridge Rail & Approach Rail is Substandard
- Shoulder Widths are Less Than Desirable

Existing Bridge Condition
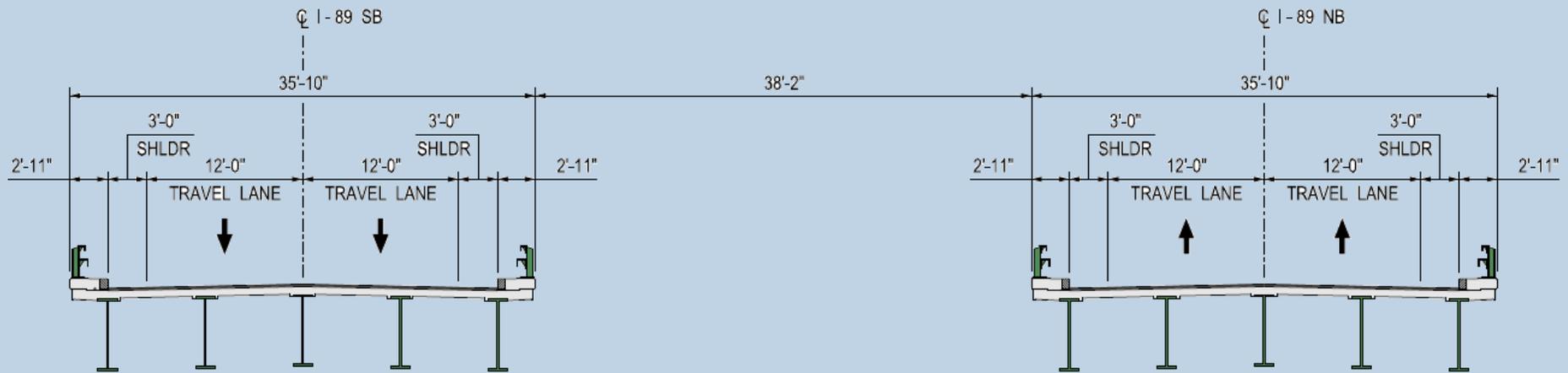
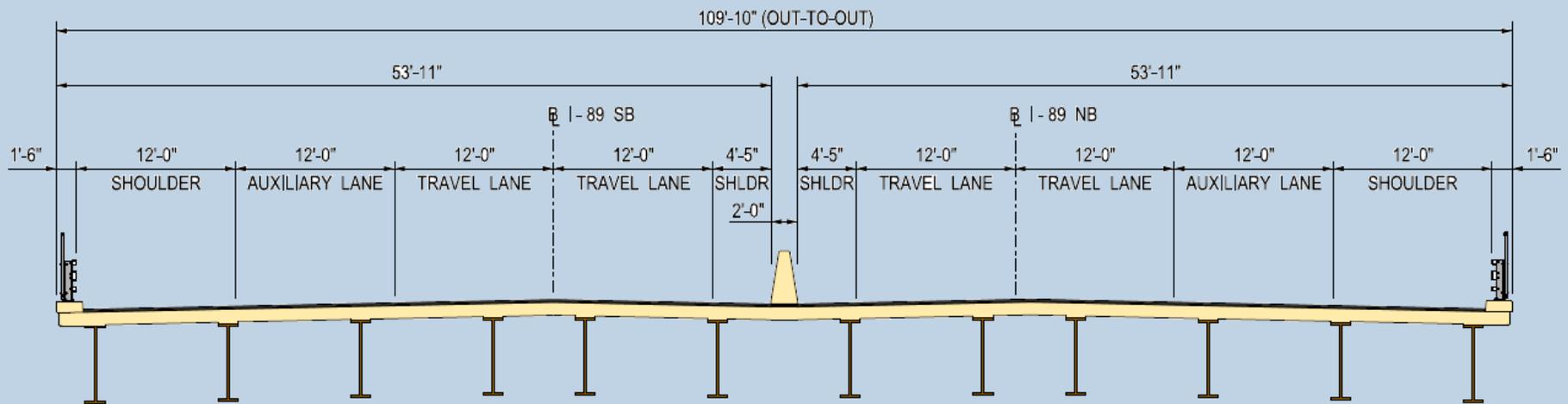# Existing Bridge Condition
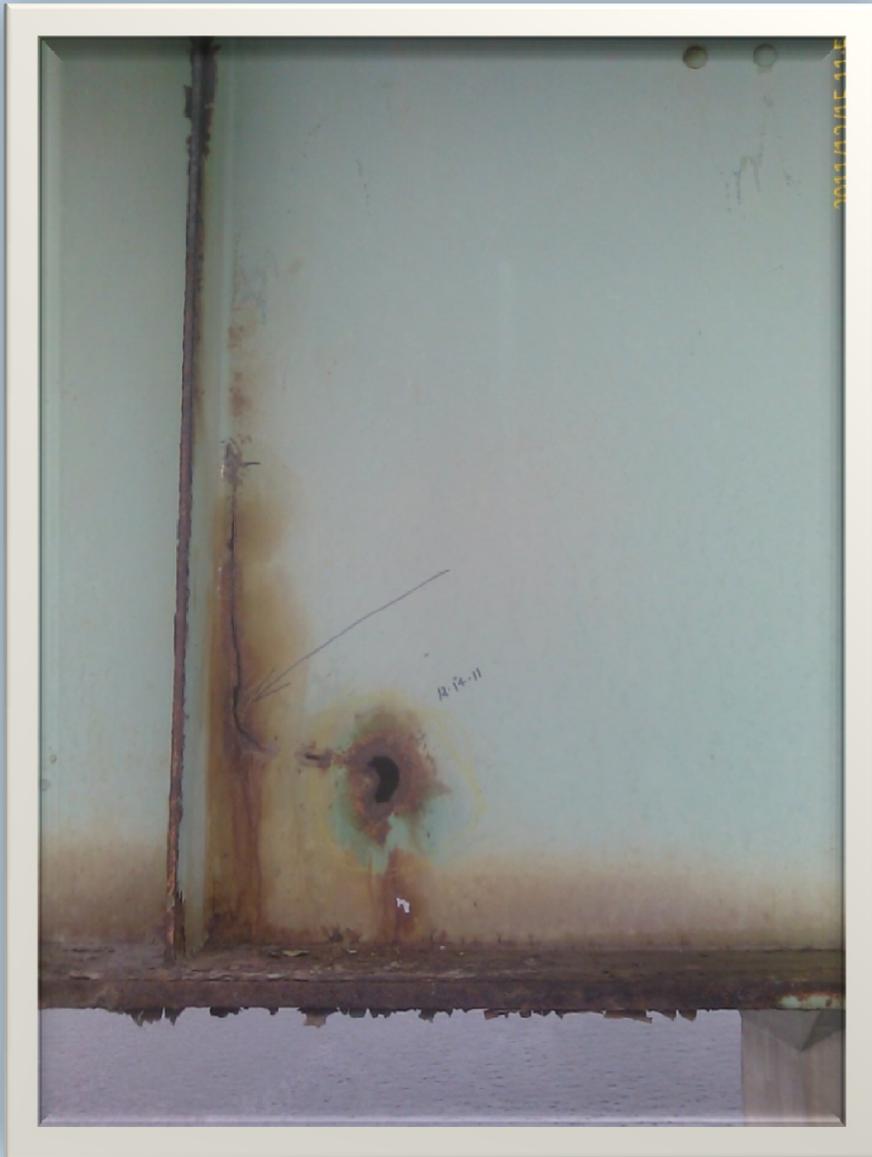
Proposed Bridge Improvements

- ## Superstructure Replacement
  - Replacing Existing Painted Steel Girders
  - Nominal Increase ($0.9M) in Initial Capital Cost
  - Lowest Life Cycle Cost

- ## Median In-Fill Bridge Widening
  - Provides Flexibility for Traffic Control
  - Improves Roadway Safety
  - Minimizes Project Impacts (ROW & Environment)
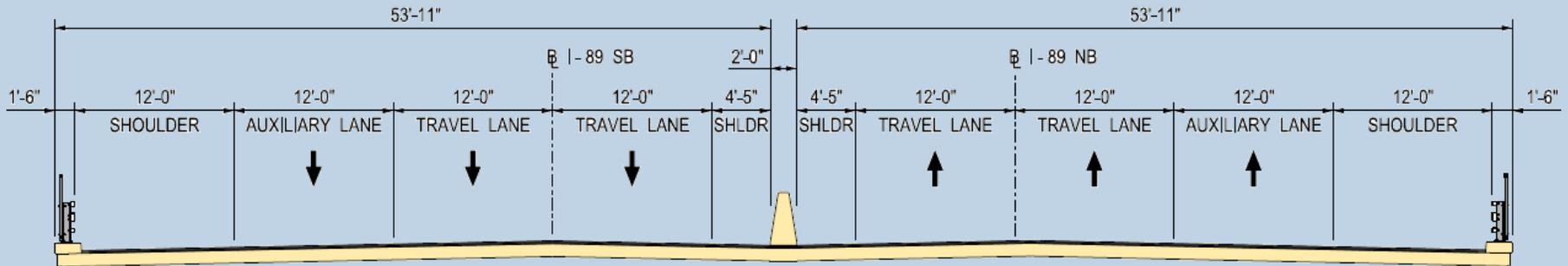
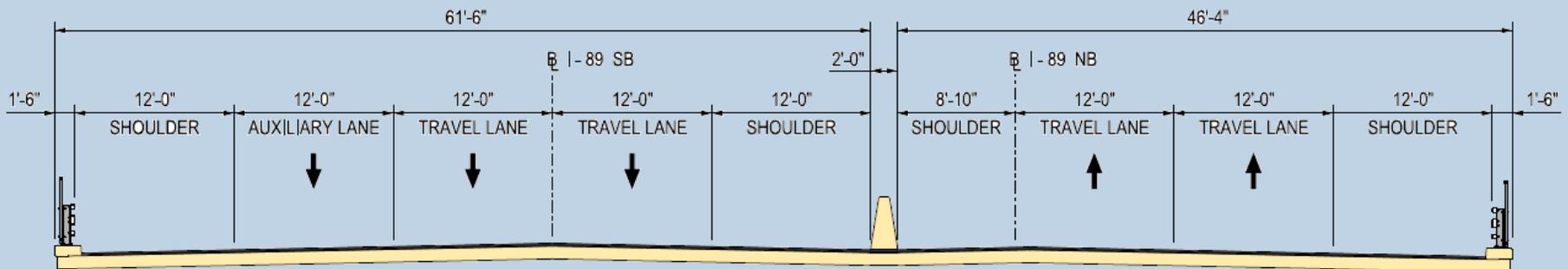# Typical Bridge Sections

EXISTING BRIDGE SECTION

PROPOSED BRIDGE SECTION
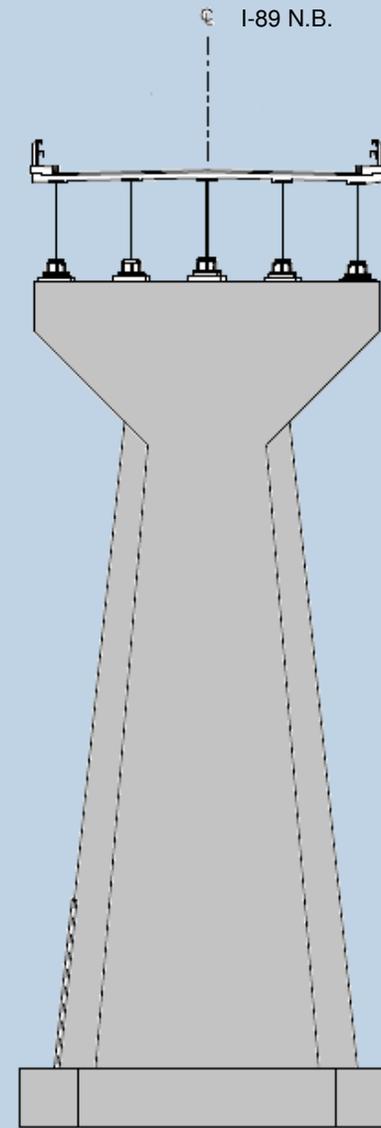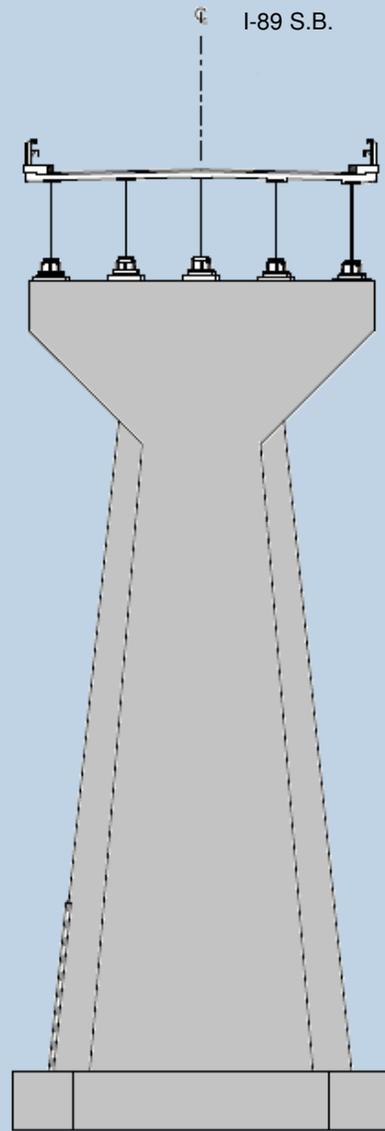
Possible Lane Configurations

53'-11"   53'-11"

℞ I - 89 SB   2'-0"   ℞ I - 89 NB

| 1'-6" | 12'-0" | 12'-0" | 12'-0" | 12'-0" | 4'-5" | 4'-5" | 12'-0" | 12'-0" | 12'-0" | 12'-0" | 1'-6" |
| SHOULDER | AUXILIARY LANE | TRAVEL LANE | TRAVEL LANE | SHLDR | SHLDR | TRAVEL LANE | TRAVEL LANE | AUXILIARY LANE | SHOULDER |

3 LANES NORTHBOUND AND SOUTHBOUND

61'-6"   46'-4"

℞ I - 89 SB   2'-0"   ℞ I - 89 NB

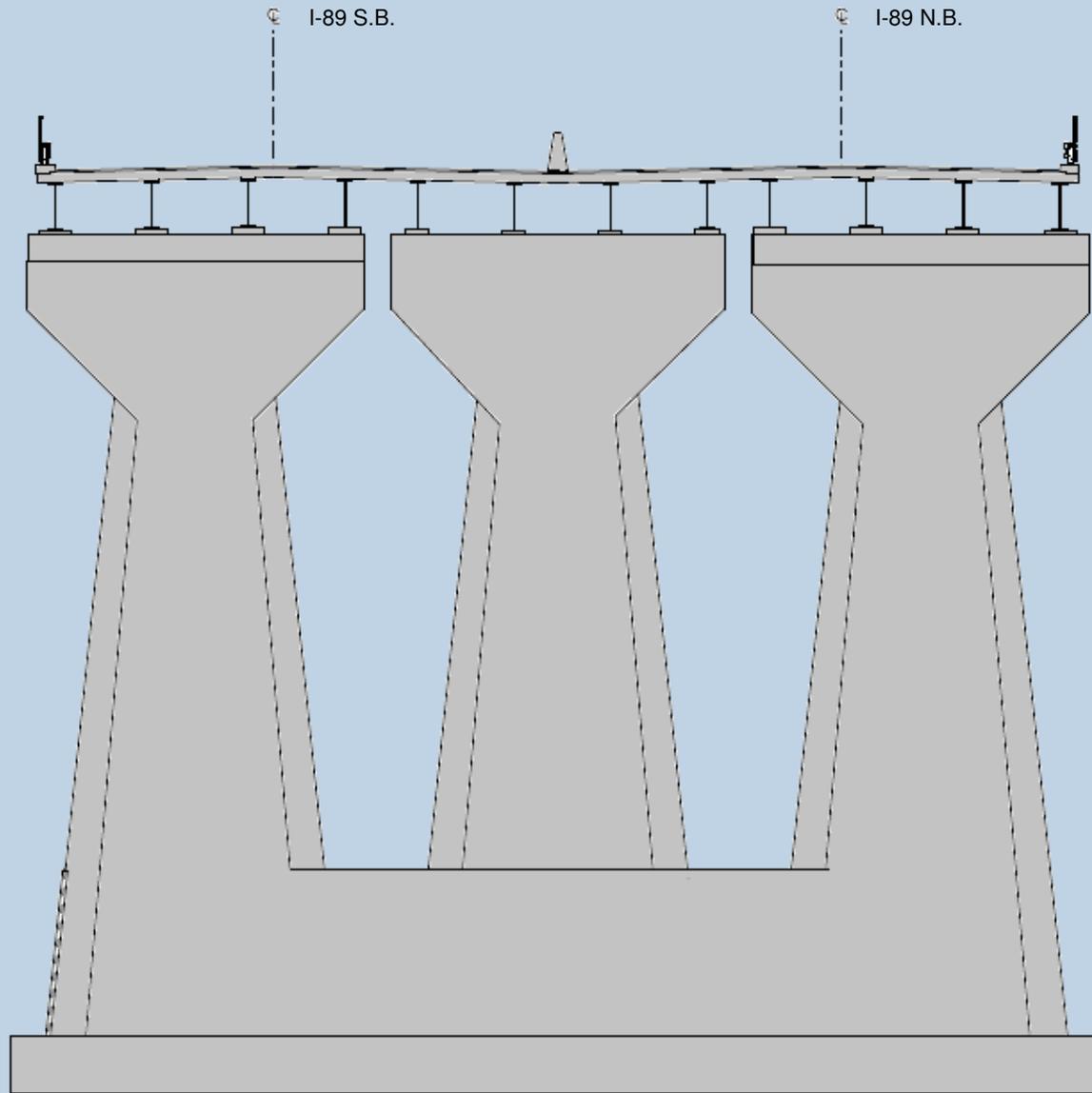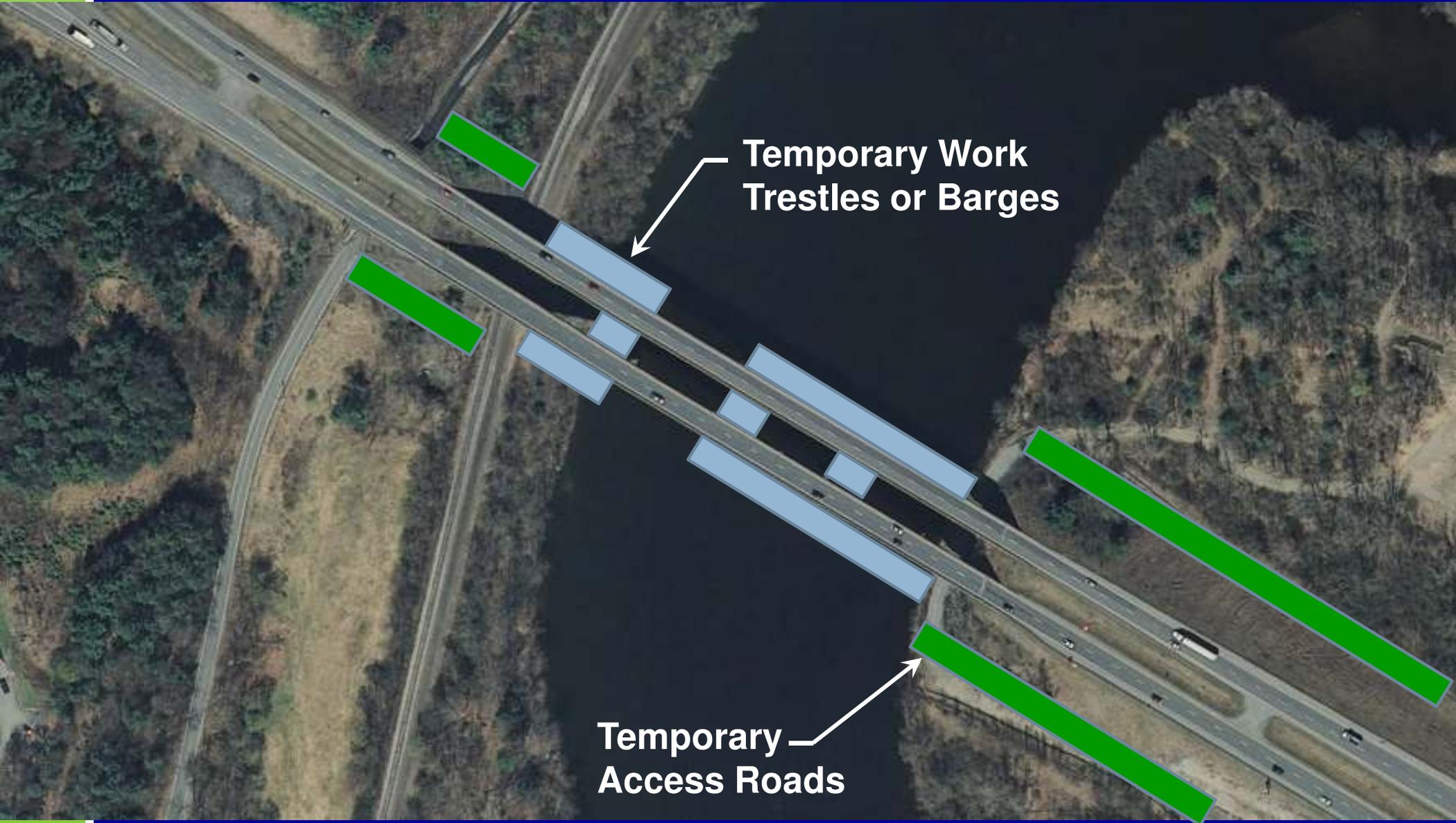| 1'-6" | 12'-0" | 12'-0" | 12'-0" | 12'-0" | 12'-0" | 8'-10" | 12'-0" | 12'-0" | 12'-0" | 1'-6" |
| SHOULDER | AUXILIARY LANE | TRAVEL LANE | TRAVEL LANE | SHOULDER | SHOULDER | TRAVEL LANE | TRAVEL LANE | SHOULDER |

3 LANE SOUTHBOUND INTERSTATE

Existing Pier Configuration

Proposed Pier Configuration

Construction Access

Temporary Work Trestles or Barges
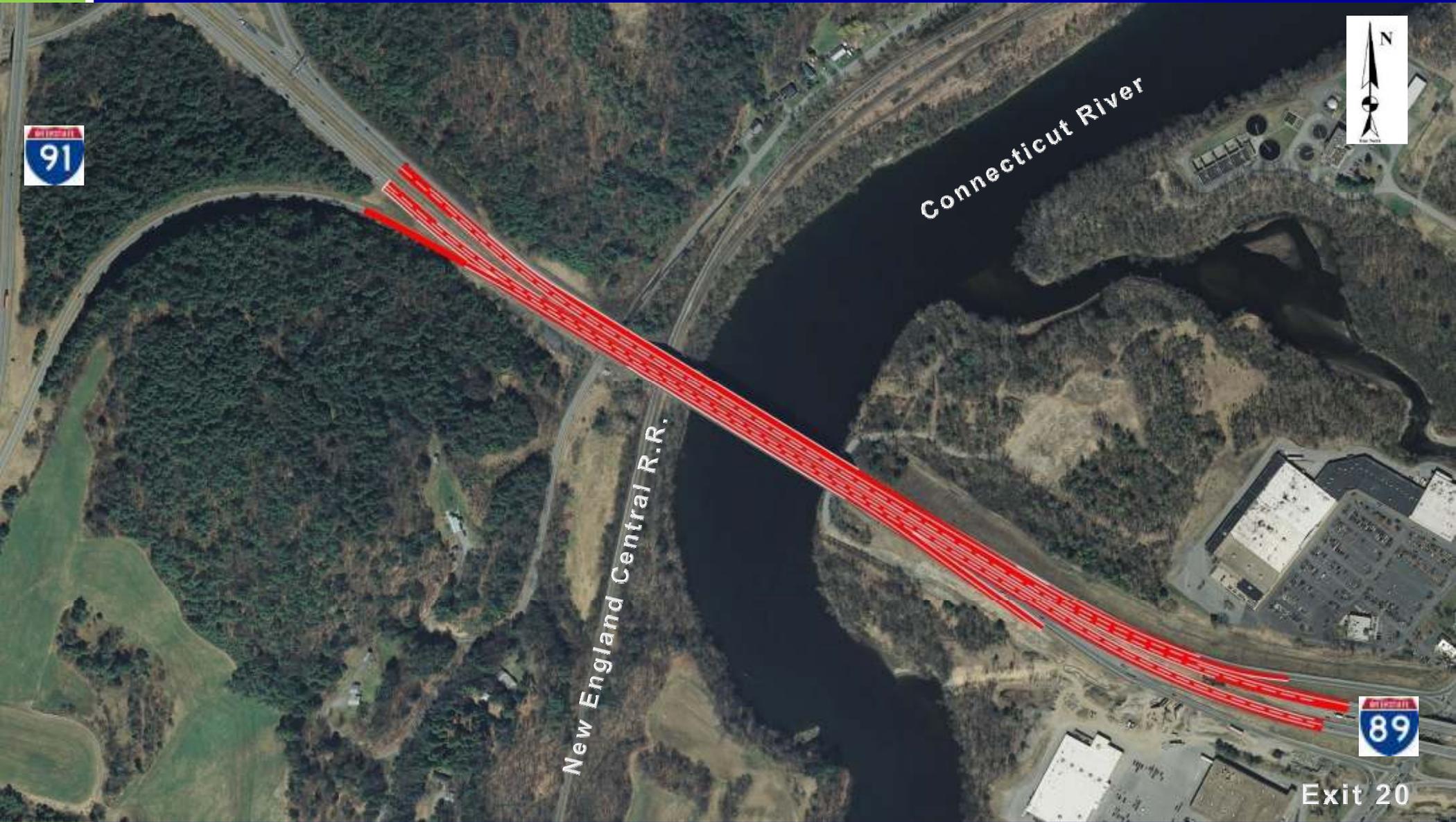
Temporary Access Roads

Construction Access

Temporary Work Trestles

Temporary Work Barges

Roadway Plan

Traffic Control Strategy
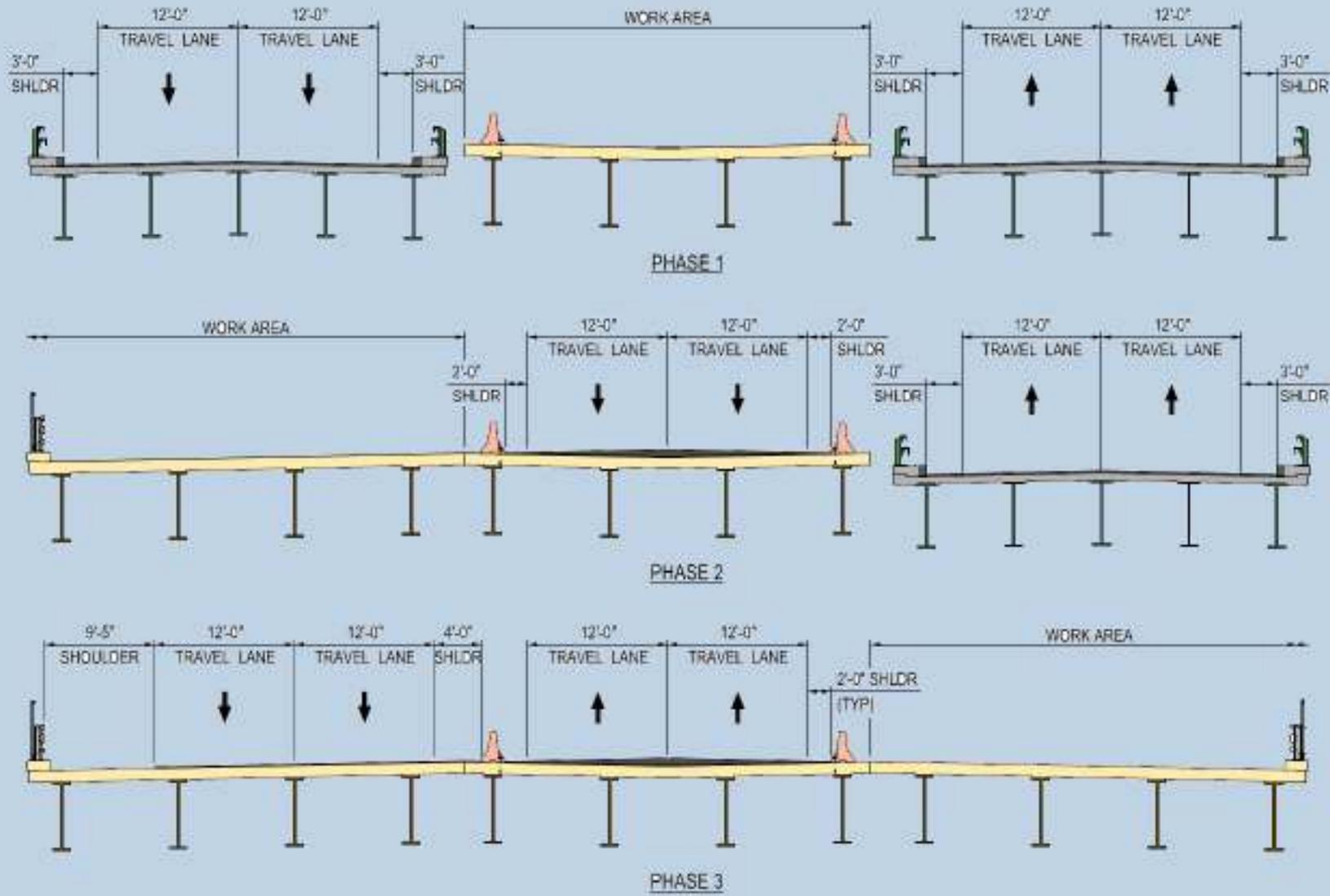
Natural Resources

➤ Floodplains

streams

floodway

100-year floodplain
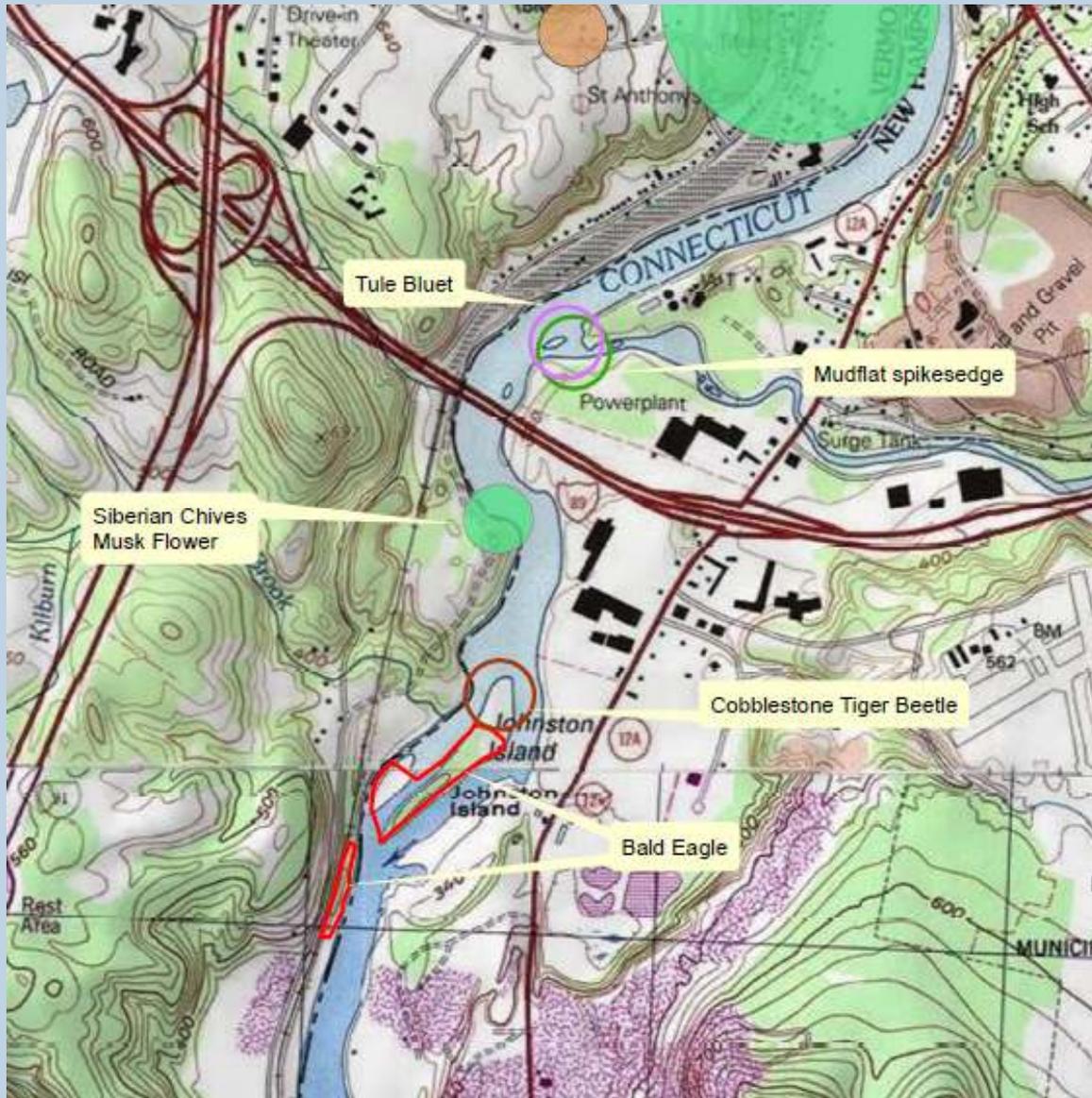
Project Location

Natural Resources

> ## Rare Species

- Cobblestone Tiger Beetle

- Tule Bluet

- Mudflat Spikesedge

- Siberian Chives

- Musk Flower

- Bald Eagle

- Dwarf Wedge Mussel in the vicinity but too far away to be a concern. (USFW)

Cultural Resources

➤ Historic Resources

- Existing bridges are exempt from Section 106 review (Interstate System)

- New England Central Railroad (NECRR) corridor was recently identified as a linear historic district eligible for the National Register.

Cultural Resources

## ➢ Historic Resources

- Section 106 of the National Historic Preservation Act offers those that possess a direct interest in historical resources, including town officials and Historical Societies, an opportunity to become more involved in an advisory role during project development as "Consulting Parties." Those interested would need to indicate so in writing to the Federal Highway Administration.

Cultural Resources
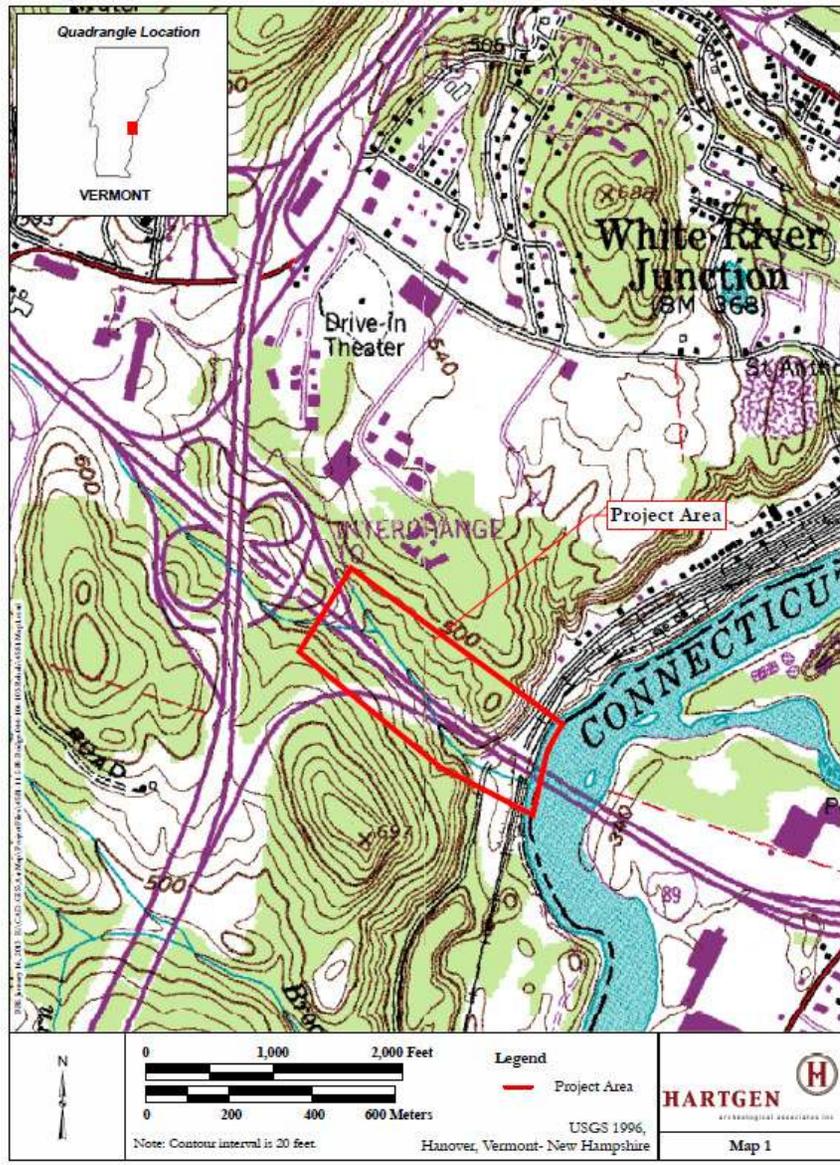
➤ Archeological Resources

- Phase 1A Archeological Study Completed in 1994 for I-89 Exit 20 Project in Lebanon

- Phase 1A Archeological Study Completed in 2013 for I-89 corridor in VT

- Three Areas of Sensitivity Identified in VT

Permitting & Approvals

- **NEPA – Categorical Exclusion**

- **NHDES Wetland Permit**

- **NHDES Shoreland Notification**

- **VT Stream Alteration**

- **VT Stormwater Discharge**

- **Army Corps PGP**

- **Coast Guard Bridge Permit**

- **Essential Fish Habitat**

Project Cost Estimate

➢ **Bridge Rehabilitation & Widening**

 ■ $38M Project Cost Estimate ($35M Construction)

 ■ Funded in 2018 & 2019 in Draft Ten-Year Plan

Project Schedule

- ➢ **Part A - Preliminary Design (2013 - 2014)**
  - Bridge Rehabilitation Study
  - Preliminary Design Plans
  - NEPA Approval
  - Public Informational Meetings (July & October 2014)

- ➢ **Part B - Final Design (2015 - 2016)**
  - Environmental Permitting
  - Final Design & Contract Plans

- ➢ **3-Phase Construction (2018 – 2020)**
  - Phase 1 – Median Bridge & Roadway
  - Phase 2 – S.B. Bridge & Roadway
  - Phase 3 – N.B. Bridge & Roadway

Your Input is Needed!

➢ **Northbound Lane Configuration**
- 3 N.B. Lanes vs. 2?

➢ **River Usage**
- Recreational, Commercial, Width Requirements?

➢ **Emergency Response Provisions**
- Mutual Aid Agreements?

QUESTIONS?

Regional Overview

Hartford

West Lebanon

Connecticut River

Mascoma River

New England Central R.R.

Exit 20

91

89