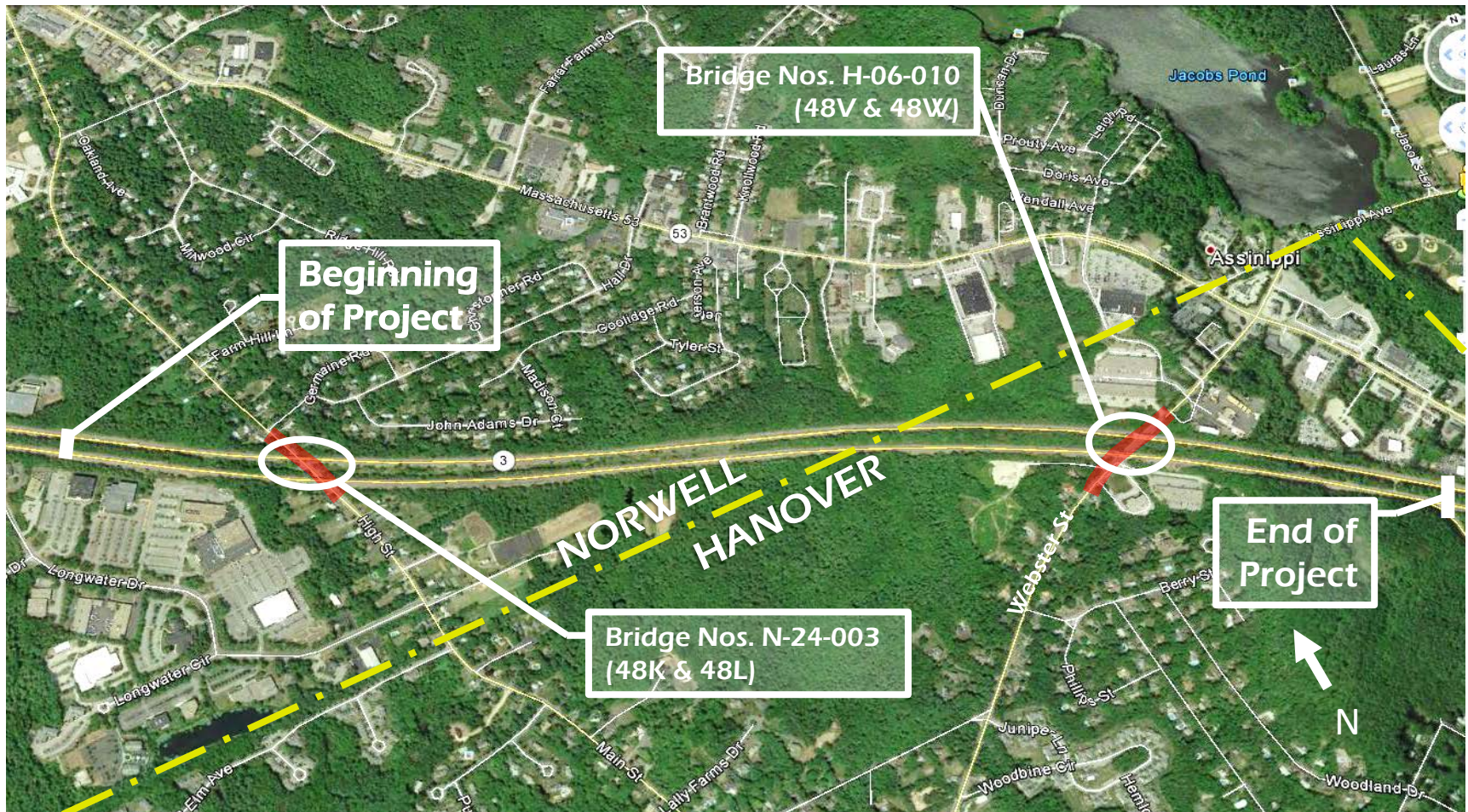




HANOVER & NORWELL
2 BRIDGE REPLACEMENTS ON ROUTE 3 (Pilgrims Highway),
Br. No. H-06-010 over Route 123 (Webster Street) and
Br. No. N-24-003 over High Street
Project File No. 606553
Contract No. 97935

March 13, 2017

Project Area



Existing Issues & Project Goals

- Structurally Deficient Bridges - Full Replacement Required



Existing Issues & Project Goals

- Structurally Deficient Bridges - Full Replacement Required



Project Scope of Work

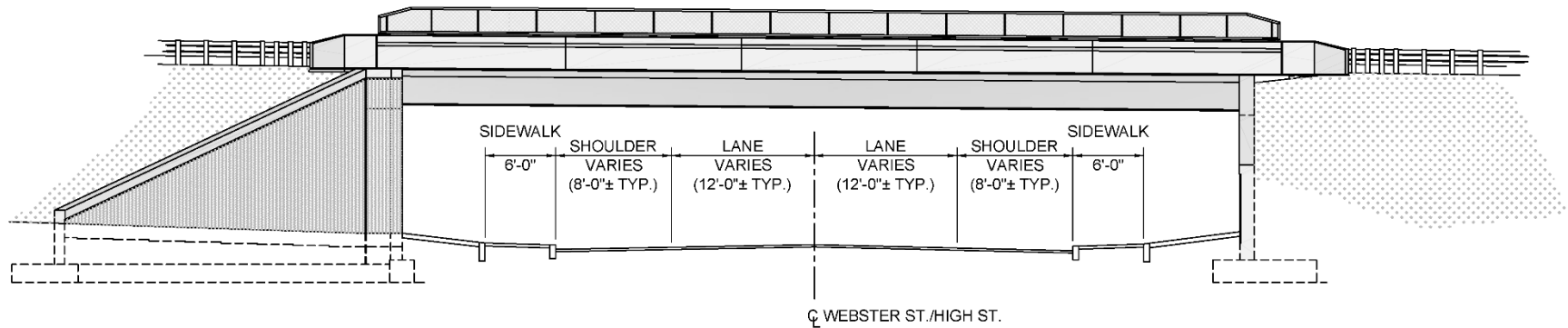
BRIDGE WORK

- Complete Replacement of Existing Bridges
- 1 of 2 New Bridges to be built in the Existing Median at Each Location
- Change to Single Span Bridges
- Slight Increase in Vertical Clearance under the Bridges (6"±)
- Steel Beam Superstructures
- Conventional Concrete Abutments
- Bridges to be built to Accommodate Potential/Future 3rd Travel Lane

HIGHWAY WORK

- Realignment of 1 Barrel of Route 3 at Each Crossing Location
- Pavement Rehabilitation and Reconstruction
- Drainage Alterations and Stormwater Improvements
- Wetlands Replication (1:1 Ratio)
- New Guardrail
- Slope Work
- Utility Relocations (on High St. and Webster St.)

Proposed Bridge Elevation

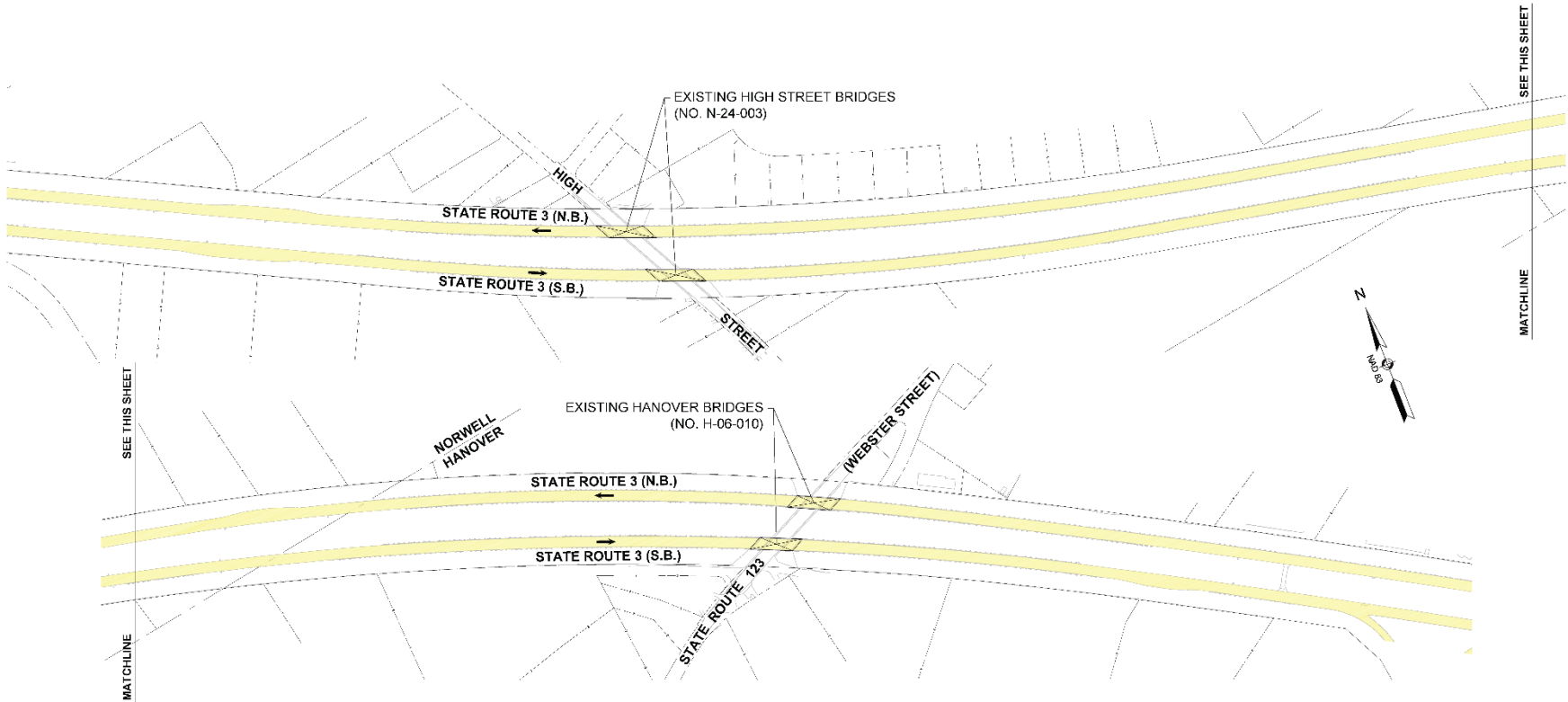


TYPICAL BRIDGE ELEVATION

Proposed Traffic Management



- No long term lane closures are required
- Short term (night time) lane closures will be required for certain activities (setting of beams, paving, bridge demolition)
- Breakdown lane to remain open for peak hour use (N.B. 6 am-10 am; S.B. 3 pm-7 pm)
- Minimal impacts to local roads below
- Work to be completed in 4 primary stages

PROPOSED TRAFFIC MANAGEMENT

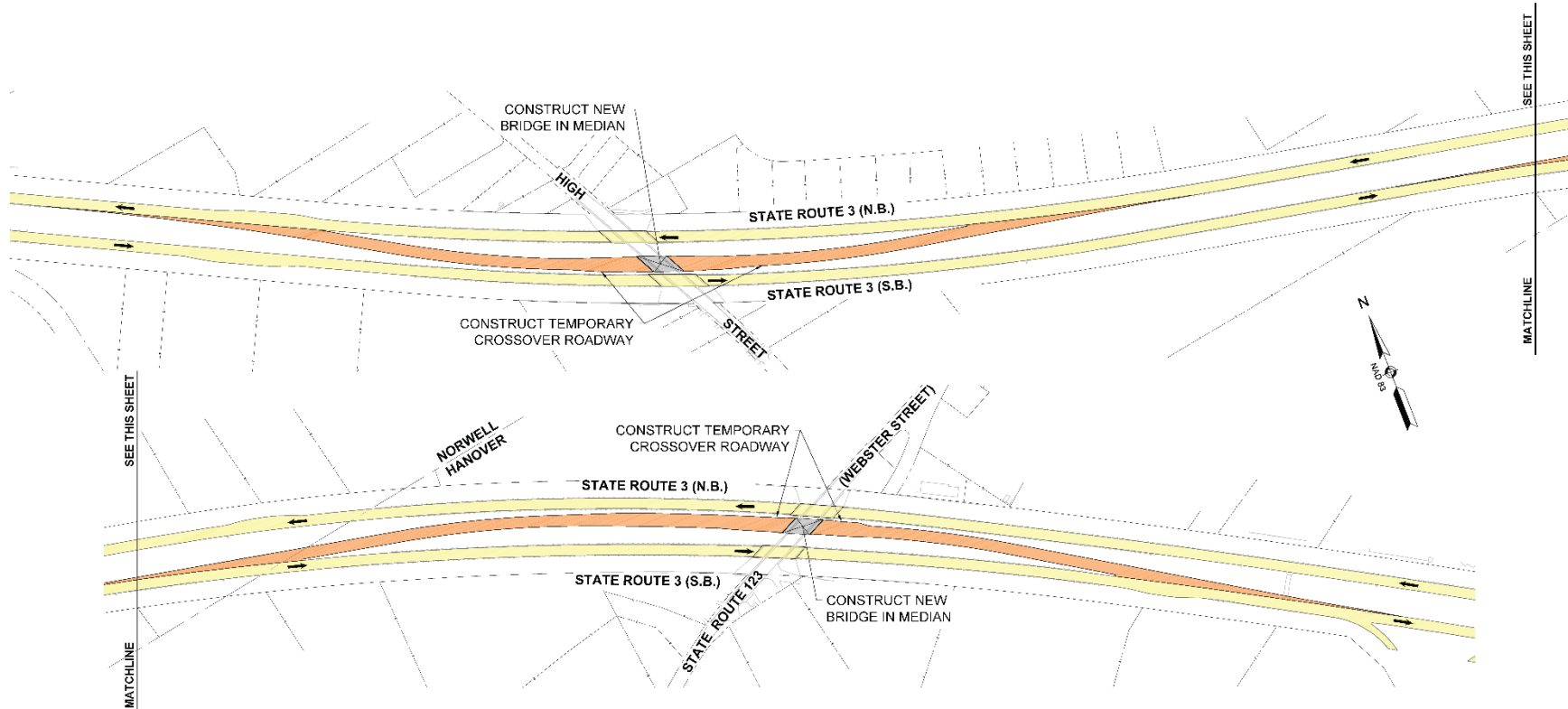


EXISTING CONDITION

LEGEND

-  - TRAVEL WAY
-  - TRAFFIC FLOW

PROPOSED TRAFFIC MANAGEMENT



STAGE I – SUMMER/FALL 2017 to SPRING/SUMMER 2018





HIGH STREET BRIDGES

- Maintain existing traffic pattern
- Construct new bridge (in median)
- Construct temporary crossover roadway

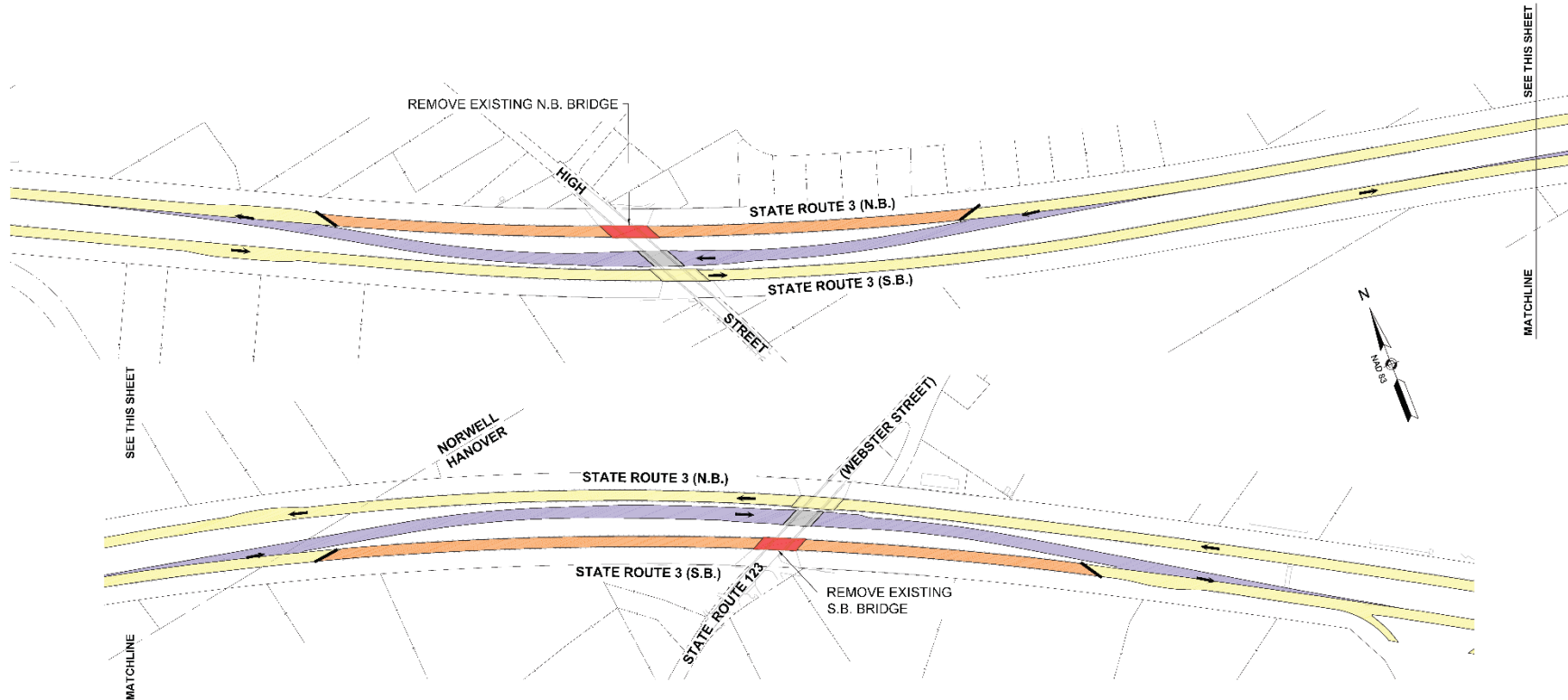
WEBSTER STREET BRIDGES

- Maintain existing traffic pattern
- Construct new bridge (in median)
- Construct temporary crossover roadway

LEGEND

-  - EXISTING ROADWAY
-  - PROPOSED ROADWAY
-  - WORK ZONE
-  - TRAFFIC FLOW

PROPOSED TRAFFIC MANAGEMENT



STAGE IIA – SPRING/SUMMER 2018






HIGH STREET BRIDGES

- Shift traffic to temporary crossover roadway
- Demolish existing N.B. bridge

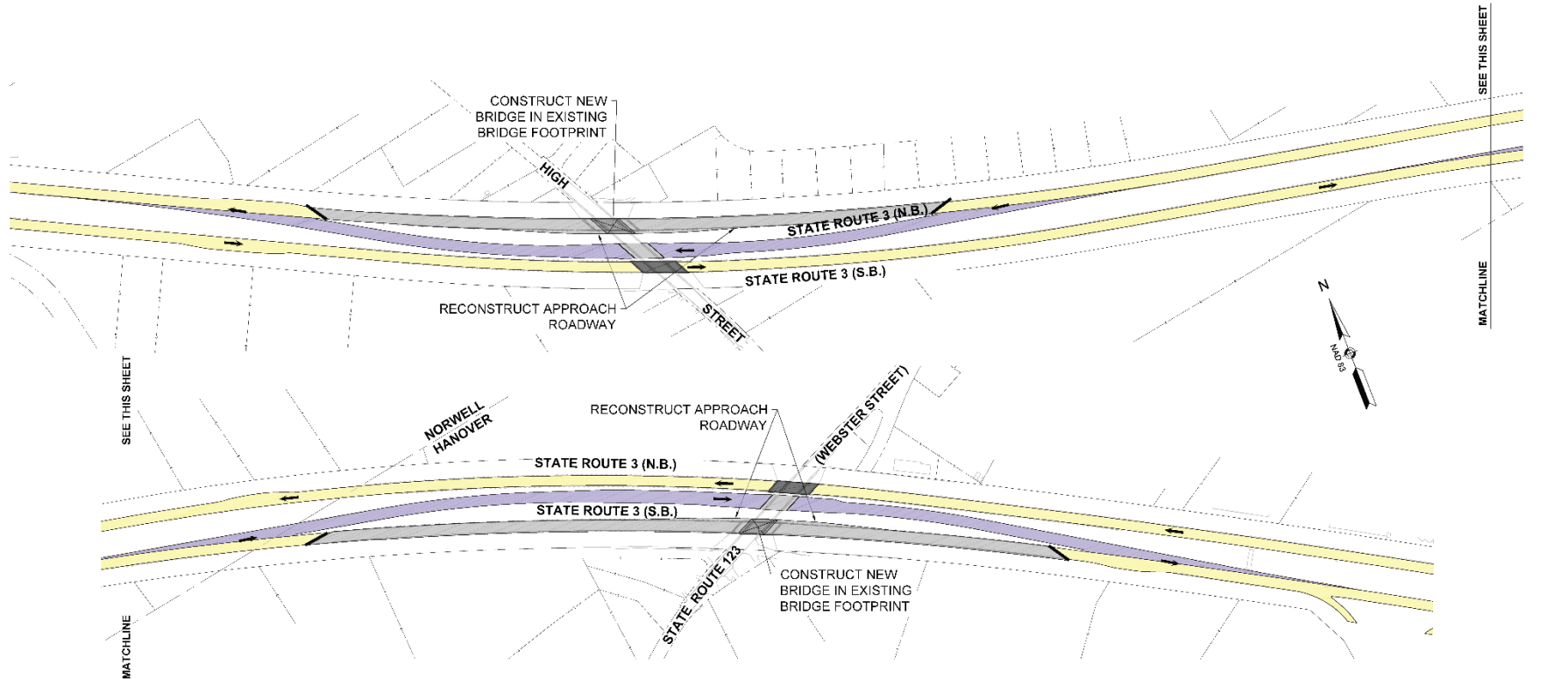
WEBSTER STREET BRIDGES

- Shift traffic to temporary crossover roadway
- Demolish existing S.B. bridge

LEGEND

-  - EXISTING ROADWAY
-  - PROPOSED ROADWAY
-  - WORK ZONE
-  - TEMP. CROSSOVER ROADWAY
-  - TRAFFIC FLOW

PROPOSED TRAFFIC MANAGEMENT



STAGE IIB – SUMMER 2018 to SPRING/SUMMER 2019

HIGH STREET BRIDGES

- Construct new bridge (in existing bridge footprint)
- Reconstruct approaches to new bridge

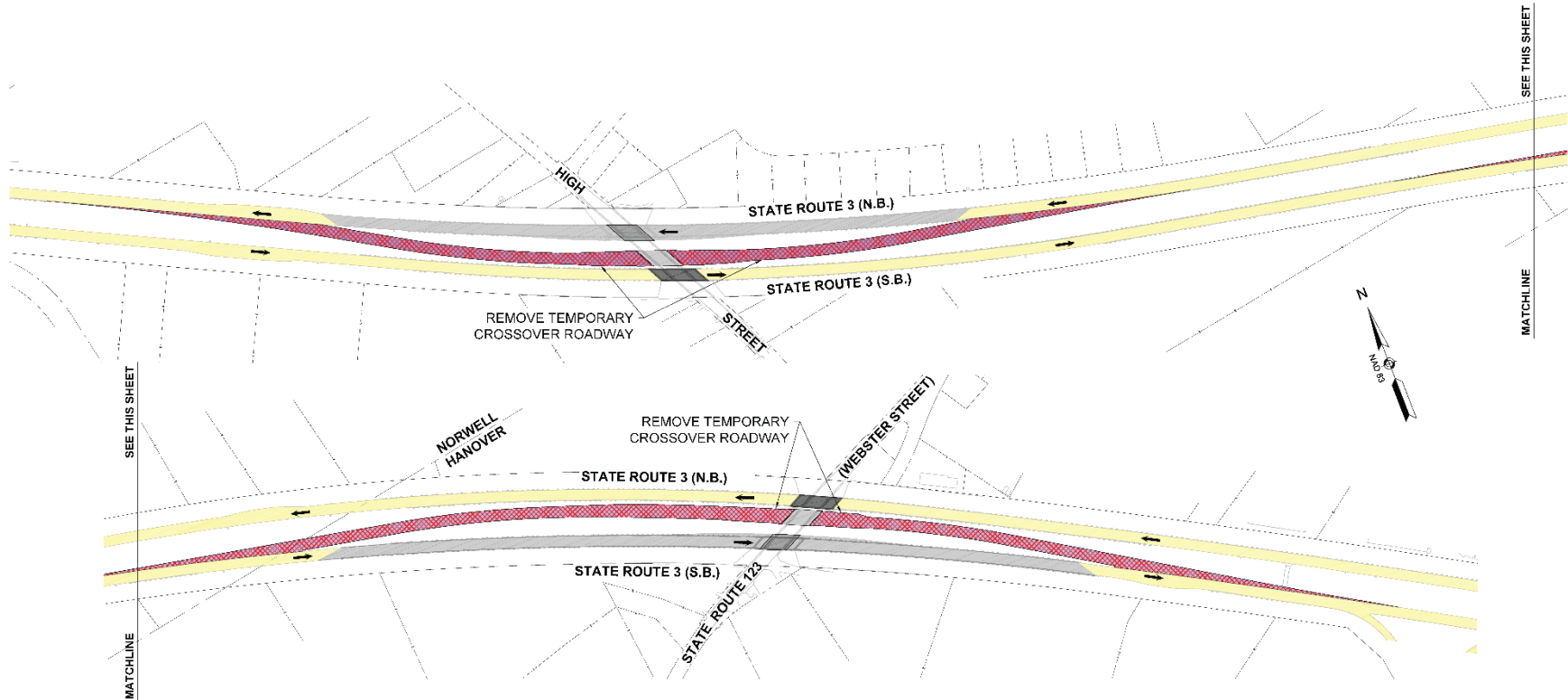
WEBSTER STREET BRIDGES

- Construct new bridge (in existing bridge footprint)
- Reconstruct approaches to new bridge

LEGEND

- EXISTING ROADWAY
- PROPOSED ROADWAY
- WORK ZONE
- TEMP. CROSSOVER ROADWAY
- TRAFFIC FLOW

PROPOSED TRAFFIC MANAGEMENT



STAGE IIIA –SPRING/SUMMER 2019





HIGH STREET BRIDGES

- Shift traffic to reconstructed roadway
- Remove temporary crossover roadway

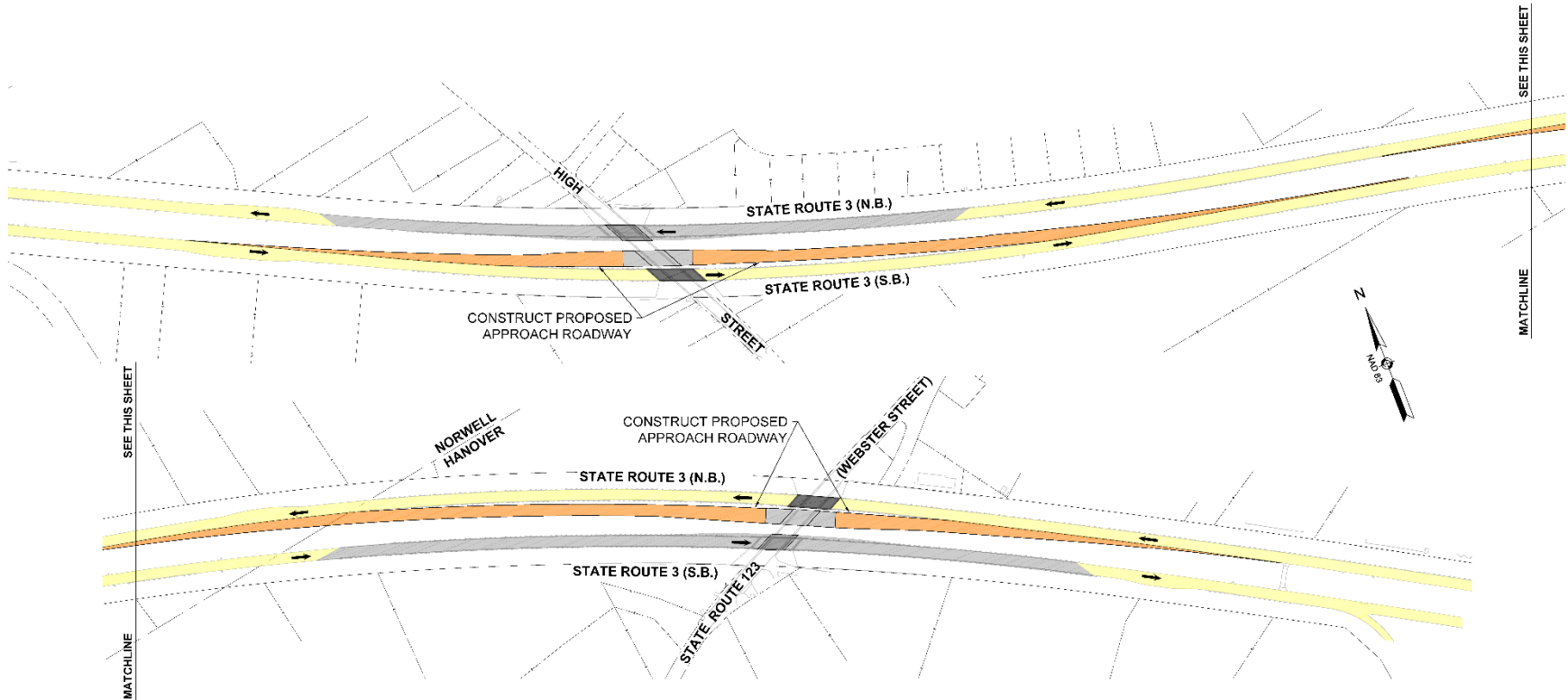
WEBSTER STREET BRIDGES

- Shift traffic to reconstructed roadway
- Remove temporary crossover roadway

LEGEND

-  - EXISTING ROADWAY
-  - PROPOSED ROADWAY
-  - REM. TEMP. CROSSOVER RDWY.
-  - TRAFFIC FLOW

PROPOSED TRAFFIC MANAGEMENT



STAGE IIIB –SPRING/SUMMER 2019 to FALL/WINTER 2019

HIGH STREET BRIDGES

- Construct proposed approach roadways to new bridge (in median)

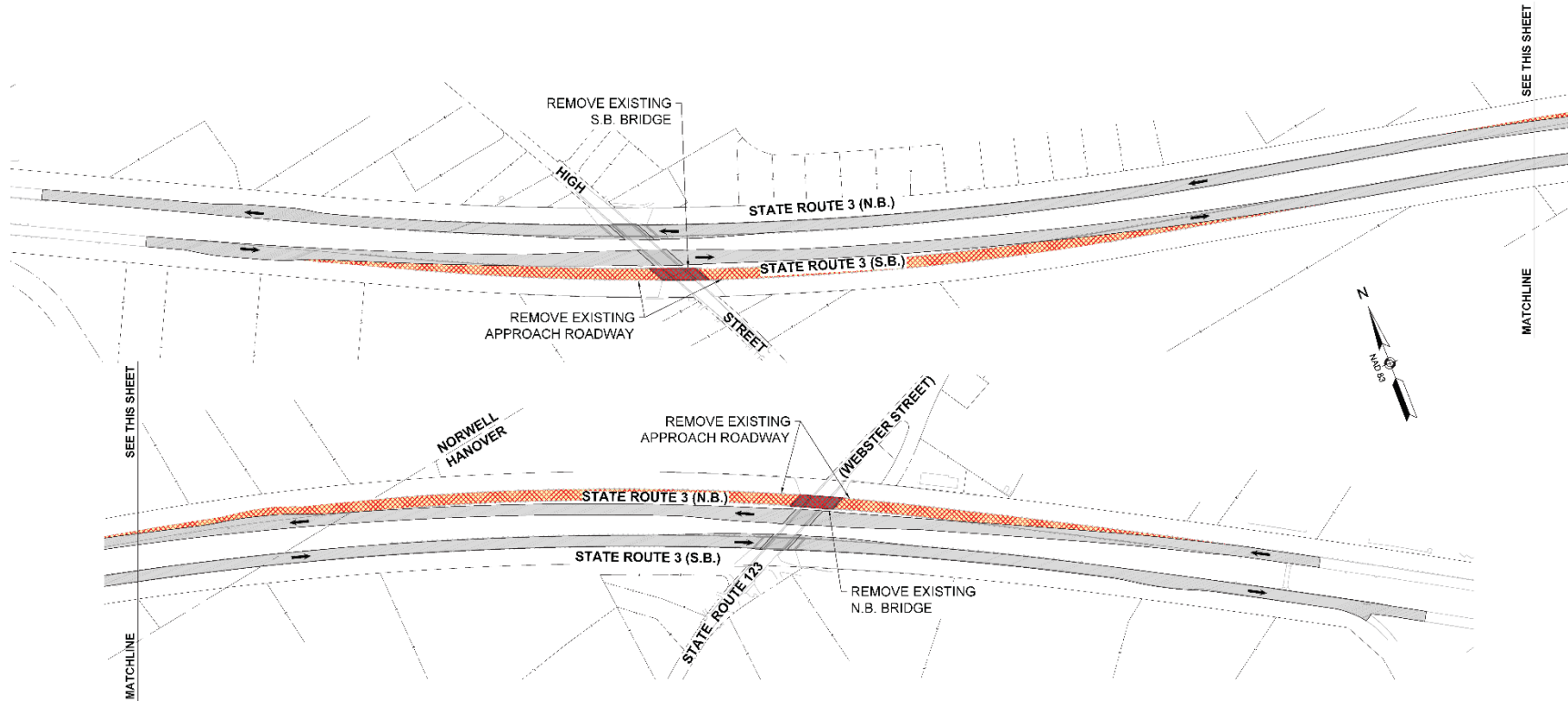
WEBSTER STREET BRIDGES

- Construct proposed approach roadways to new bridge (in median)

LEGEND

- EXISTING ROADWAY
- PROPOSED ROADWAY
- WORK ZONE
- TRAFFIC FLOW

PROPOSED TRAFFIC MANAGEMENT



STAGE IV –SPRING/SUMMER 2020




HIGH STREET BRIDGES

- Shift traffic to proposed roadway
- Demolish existing S.B. bridge
- Remove abandoned S.B. approaches
- Complete roadway work on High Street

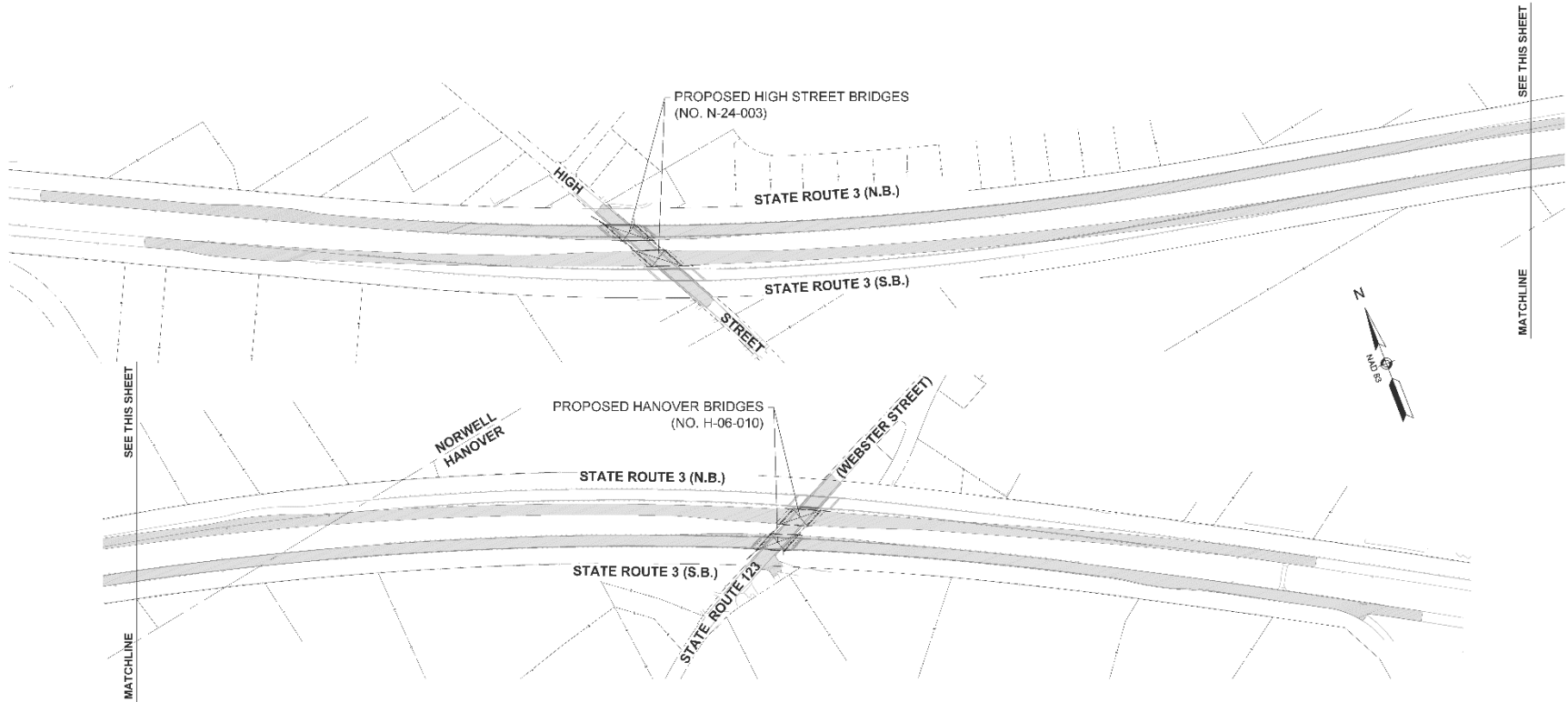
WEBSTER STREET BRIDGES

- Shift traffic to proposed roadway
- Demolish existing N.B. bridge
- Remove abandoned N.B. approaches
- Complete roadway work on Webster Street

LEGEND


-  - REM. EXISTING ROADWAY
-  - PROPOSED ROADWAY
-  - TRAFFIC FLOW

PROPOSED TRAFFIC MANAGEMENT



STAGE IV –SPRING/SUMMER 2020

LEGEND

 - PROPOSED ROADWAY

Project Schedule

Construction Starts
Early Summer 2017

Substantial Completion
Late Spring 2020

Full Beneficial Use
Spring 2020

Contract Field Completion
Summer 2020



Project Cost Information

- Office Estimate: \$34,257,397.50
- Low Bid: \$29,424,712.50 (14.11% Below Office Est.)
- Average Bid: \$33,771,928.61 (1.42% Below Office Est.)
- 11 Bids Received