







North Washington Street Bridge

Public Information Meetings

November 27, 28, and 29, 2018 at the Nazzaro Community Center (North End), Shriners Hospital for Children (West End), and Knights of Columbus (Charlestown)





- Project Overview
- Construction & Staging
- Construction Impacts
- Traffic Management
- Public Outreach
- Next Steps
- Questions & Answers







NORTH WASHINGTON STREET

Project Overview

Contract Information

Notice to Proceed (NTP)

• August 8, 2018

Construction Duration

- Original Design Phase Contract: 5 years
- New Construction Phase Contract: 4 years and 6 months

Dollar Amount

• \$176,777,388.50





NORTH WASHINGTON STRE

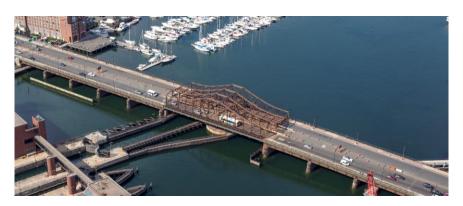
Location & Context

NORTH WASHINGTON STREET BRIDGE REPLACEMENT



The Bridge Now

- Multiple attempts to rehabilitate the structure over the course of 100 years were deemed imprudent and impracticable
- The deteriorating bridge costs
 \$3-5 million each year to maintain
- It has been determined that the bridge must be replaced to ensure safety, accessibility, and long-term serviceability









A Bridge for the 21st Century

The new bridge will feature:

- Two vehicle lanes in each direction
- One dedicated inbound bus lane
- Separated cycle tracks
- Expanded sidewalks
- A wide scenic overlook and seating area midway across the bridge
- A widened navigation channel for boats and watercraft
- Architectural design elements that visually complement the iconic Zakim Bridge



NORTH WASHINGTON STREE

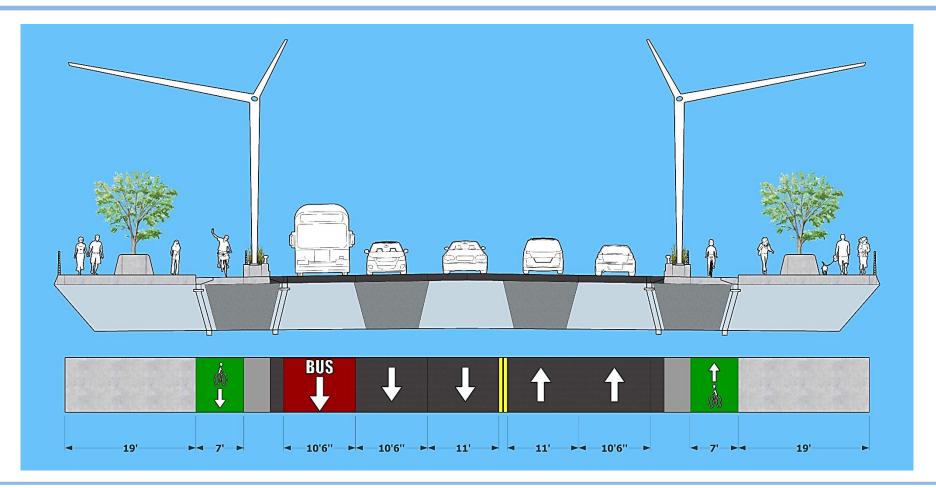






New Bridge Cross-section

NORTH WASHINGTON STREET BRIDGE REPLACEMENT







General Contractor & Coordinating Agencies

Construction Contract Administrator:

 MassDOT Highway Division, District 6

General Contractor:

• J.F. White Contracting Co.



Coordinating Agencies:

- City of Boston
 MWRA
 - PWD
 - BTD
 - BPS
- Boston Police
- Boston Fire
- Boston EMS
- MBTA

- DCR
 National Park
 - Service

NORTH WASHINGTON STREE

- MA State Police
- US Coast Guard
- Army Corps of Engineers











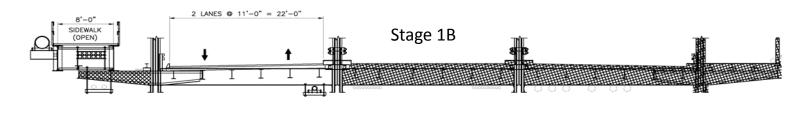
NORTH WASHINGTON STREET BRIDGE REPLACEMENT

Construction & Staging

Original Staging Plans



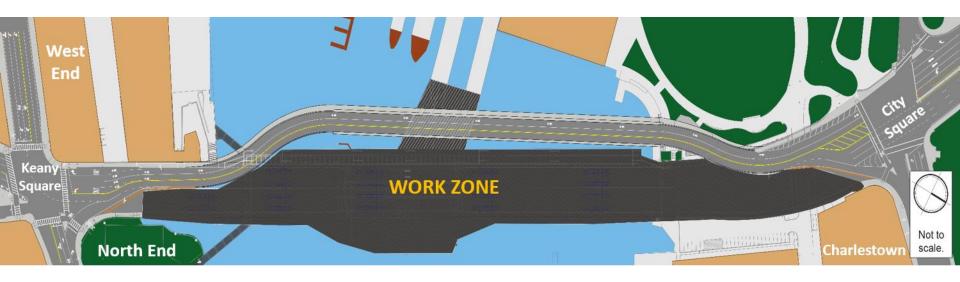
- 6 construction stages were planned during the design phase:
 1A, 1B, 2, 3, 4A, and 4B
- Stage 1B required reducing traffic lanes to one lane in each direction and would have significantly impacted traffic flow for a period of three weeks beginning August 2019
- The project team explored innovations that eliminated the necessity for this stage





Temporary Bridge

NORTH WASHINGTON STREET







Temporary Bridge From Lovejoy Warf





Temporary Bridge Benefits

- Eliminates Stage 1B (one lane in each direction)
- Maintains access for vehicles, pedestrians, bikes, and buses with two inbound lanes, one outbound lane, and one sidewalk
- Expedites construction by approximately 6 months
- Expedites bridge demolition and the installation of 40 drilled shafts
- Does not require trestle adjacent to Charlestown Marina
- Reduces the number of major traffic and pedestrian shifts (5 to 3)
- Reduces nighttime lane closures
- Reduces need to use the structurally deficient bridge for traffic
- Provides a new public playground away from the active construction site

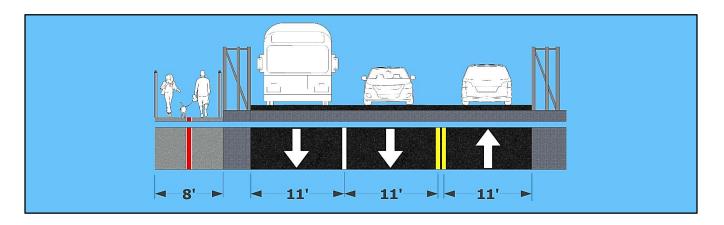




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Temporary Bridge Pedestrian Accommodations

- Accommodations equal to those in original contract
 - Cyclists may operate within the righthand vehicle travel lane on a paved surface similar to a normal street
- Temporary bridge will include one 8' wide sidewalk
 - Simplified routes and fewer shifts from side to side
 - 8' at northern tie-in and 6'6" at southern tie-in
 - Due to 6'6" section at the southern tie-in, cyclists are requested to dismount to use the sidewalk
- Freedom Trail marked and carried across bridge



NORTH WASHINGTON STR

Temporary Bridge Fly Through



At this point in the presentation, the project team showed a video rendering of the temporary bridge during Construction Stage 2.

To access the video on MassDOT's YouTube channel, please click

here: https://www.youtube.com/watch?v=ypPlinmThFl





Dog Park and DCR Playground Relocation

• JF White will construct a new playground and dog park

NORTH WASHINGTON STREET

 Design, size, and details currently under development in coordination with DCR



Staging Durations

North WASHINGTON STREET

Original Durations

Stage 1: *12 months* Stage 1B: *1 month* Stage 2: *21 months* Stage 3: *21 months* Stage 4A: *2 months*

- ✤ Stage 4B: 3 months
- = 60 months

New Durations

Stage 1: 15 months

Stage 2: 23 months

Stage 3: 10 months

- + Stage 4: 6 months
- **=** 54 months



Stage 1: Current Configuration Aug. 2018 – Nov. 2019

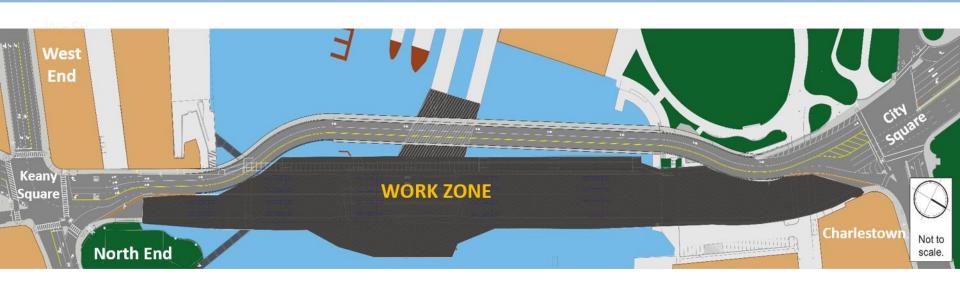




- Relocation of utilities
- Removal of the west sidewalk
- Construction of temporary bridge; to be completed in fall 2019

Stage 2: Nov. 2019 – Oct. 2021

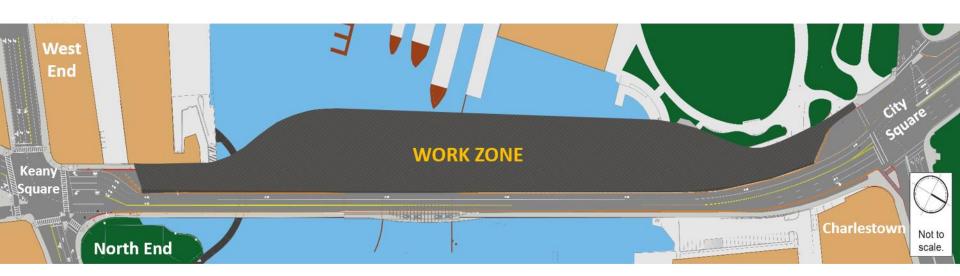
BRIDGE REPLACEMEN



- Traffic and pedestrians diverted to temporary bridge beginning December 2019 through December 2021
- Demolition of old bridge and construction of new bridge except for the southwest corner

Stage 3: Nov. 2021 – Aug. 2022





- Demolition and construction of the southwest corner of the bridge
- Traffic and pedestrians relocated to east side of new bridge

Stage 4: Sept. 2022 – Feb. 2023





- Removal of the temporary bridge
- Completion of the sidewalks, landscaping, trellis, and barriers

Traffic Control Plans:

Original Design Phase Contract VS New Construction Phase Contract

New Construction Phase Contract **Original Design Phase Contract** Duration Pedestrians Vehicle Vehicle Duration Pedestrians Vehicle Stage Vehicle (Location) Stage (Month) (Location) (Month) (Location) (Lanes) (Location) (Lanes) **Existing Bridge East** 1A 12 4 **Existing Bridge** 1 15 **Existing Bridge East** 4 **Existing Bridge** Temp Bridge West 2 1B 1 Existing Bridge West **Existing Bridge East** 3 **Existing Bridge East** Temp Bridge West 3 Temp Bridge & SW of Existing 2 21 2 23 Temp Bridge West New Bridge West New Bridge East 3 3 3 3 21 10 New Bridge East 4A 2 New Bridge East 4 New Bridge New Bridge East 4 6 4 New Bridge 4B 3 New Bridge East 4 New Bridge 60 Minimum Lanes = 2 Maximum = 4 54 Minimum Lanes = 3 Maximum = 4 Total Total

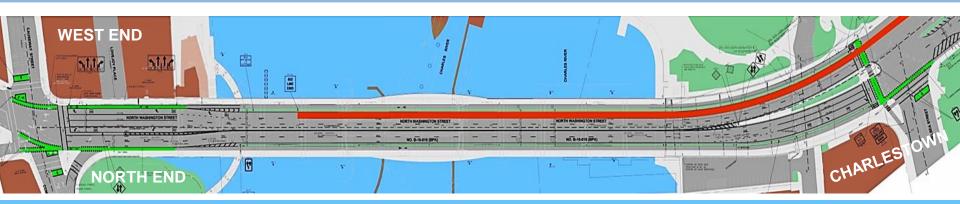


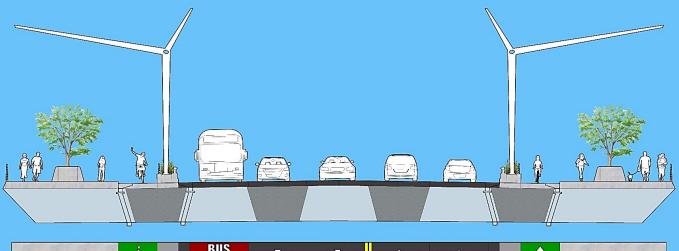


NORTH WASHINGTON STREET BRIDGE REPLACEMENT

Final Condition















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Construction Impacts

Working Hours



- Project working hours will be 7AM to 10PM
- It is expected the Contractor will work overnight between 10PM and 7AM as necessary
 - All stages will require some overnight work, especially Stage 1 for utility relocation and upgrades and Stage 3 for steel erection
- Some periods of 24-hour work are expected to speed construction during steel erection and traffic shifts





Construction Noise

NORTH WASHINGTON STREE

- Maximum noise levels are specified in the contract
- Baseline measured against existing conditions
- Noise limits vary across day, evening, and night hours
 - Day: 7AM 6PM
 - Evening: 6PM 10PM
 - Night: 10PM 7AM
- It is the Contractor's responsibility to comply to the contract specifications and the City of Boston noise ordinance





Noise Protections



Proactive noise protections are readied prior to work

- Noise monitoring of project area
- Shielding noisy operations with noise blankets and white noise back up alarms
- Strategic means and methods
 - Machinery types and use
 - Scheduling operations





Dust Protections



Proactive dust protections

- Contractor health and safety plan includes dust control on site
- During bridge demolition activities, water will be used to minimize dust emissions
- Dust monitoring will be conducted during dust producing activities





Additional Protections



- Hazardous Materials (asbestos, lead)
 - Contractor will follow municipal, state, and federal guidelines for the use, transportation, and disposal of hazardous materials
- Water Quality
 - Contractor will use controlled demolition of old bridge
 - Certain activities will be limited for fish runs
- Rodents
 - Contractor will implement trap and bait program throughout construction











NORTH WASHINGTON STREET BRIDGE REPLACEMENT

Traffic Management

Traffic Management Goals

- 1. Provide early and accurate information so drivers make smart decisions
- 2. Reduce regional traffic to maximize limited bridge capacity
- 3. Provide traffic details at major intersections as needed:
 - Keany Square
 - City Square
 - Along Chelsea Street



NORTH WASHINGTON STREE





Regional Signage

NORTH WASHINGTON STREET BRIDGE REPLACEMENT

SCREEN 1

BR UNDER

CONSTR

CMS TYPE 1 93 1 Medford Revere CMS TYPE 4 93 Chelsea CMS TYPE 4 Charlestown Cambridge CMS TYPE 2 PROJECT LOCATION Boston 90 CMS TYPE 3 CMS TYPE 2 93

CMS TYPE 2

CMS TYPE 1 Legend

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CMS TYPE 2 Legend

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CMS TYPE 3 Legend

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CMS TYPE 4 Legend

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Local Signage

SP-3

SP-3

SP-6

01

W20-1 (AHEAD)

SP-3 (ON MARTHA RD)

R2-10a

28

SP-7

W20-1 (1/2 MILE)

W20-5 SEE NOTE 5

R2-10a

W20-1 (AHEAD)

CAMBRIDGE STREET

(ON SUDBURY ST)

SP-3

SP-3

SP-3

93

SUMMER STREET

SP-3

(ON CONGRESS ST)

(ON COMMERCIAL ST)

(ON ATLANTIC AVE)

SEAFORT BOULEVARD

93

SP-3

SP-8

28

STORROW DRIVE

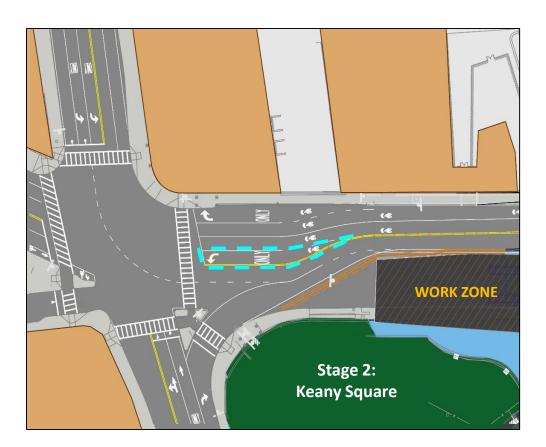
SP-7

NORTH WASHINGTON STREET BRIDGE REPLACEMENT

1 SP-3 Legend SP-4 Legend SP-5 Legend CHARLESTOWN FOR CHARLESTOWN ALT ROUTE BRIDGE CONST. W20-1 (AHEAD) (ON CHELSEA ST) USE ALT ROUTE USE I-93 NORTH EXPECT DELAYS R2-10a (ON CHELSEA ST) N-SOUTH EL SP-7 White Wartington (ON CHELSEA ST) SP-6 Legend SP-7 Legend SP-8 Legend PROJECT FOR NORTH END ALT ROUTE NARROW BRIDGE R2-10a W20-1 (AHEAD) OR TD GARDEN **USE LEVERETT** NO WIDE LOADS CAL USE ALT ROUTE CONNECTOR SEEK ALT ROUTE SP-3 R2-10a SP-4 SP-5

Traffic Control Plans: Keany Square

The Keany Square Traffic Control will include a left turn lane from the bridge to Commercial Street



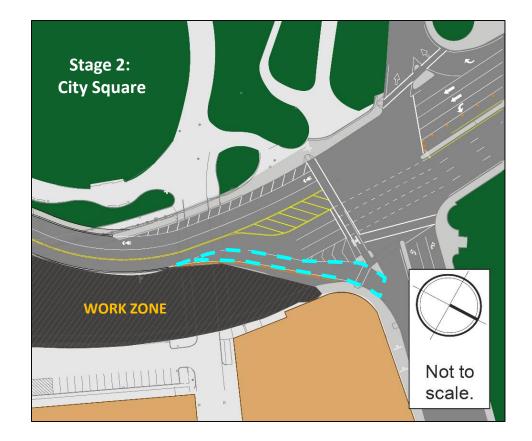
NORTH WASHINGTON STREET BRIDGE REPLACEMENT





Traffic Control Plans: City Square

The City Square Traffic Control will include a "slip lane" from the temporary bridge to Chelsea Street as requested by the City of Boston

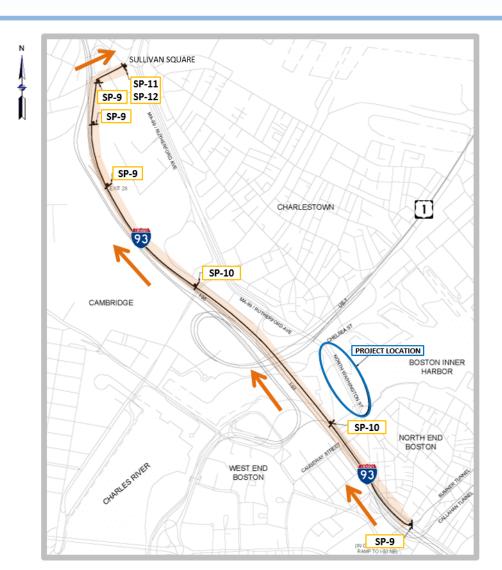


NORTH WASHINGTON STREE



Alternate Routes Northbound





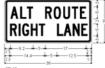
SP-9 Legend

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SP-11 Legend



SP-10 Legend



SP-10, 1.5" Radus, 0.6"Border, 0.4" Indent, Black on Orange, "ALT ROUTE" C; "FIGHT LANE" C 75% spacing.

SP-12 Legend



SP-12 1.5" Radius, 0.6" Border, 0.4" Indent, Black on Orange "ALT ROUTE" C;

Alternate Routes Southbound

N CHARLESTOWN 93 ALL CHORNER CON BRAN 1 SP-10 SP-9 SP-9 SP-13 CITY SQUARE SP-10 PROJECT LOCATION BOSTON INNER HARBOR HORIN 93 CAMBRIDGE SP-10 CHARLES RIVER SP-14 SP-9 SP-13 KEANY SQUARE SP-11 MARTHARD SP-12 SP-15 NORTH END BOSTON SP-15 WEST END SP-15 BOSTON



TTT





"ALT ROUTE"C. "LEFT LANE"C 75% spacing.

SP-15 Legend







SP-11, 1.5" Racius, 0.0" Border, 0.4" Indent, Elade on Ovenge, reNO" D:









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SP-12 Legend

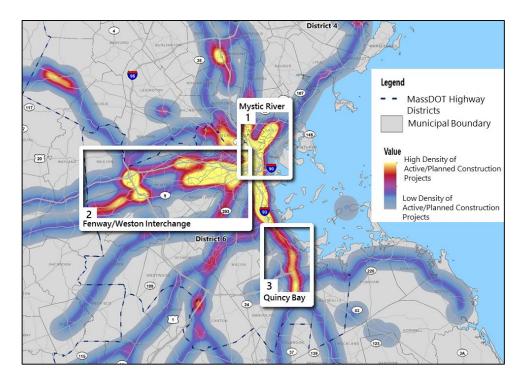
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NORTH WASHINGTON STREET **BRIDGE REPLACEMENT**

Construction Coordination & Traffic Management

- Joint effort between Highway Division and MBTA to identify potential schedule conflicts and impacts to the public during construction, including MBTA bus routes 92, 93,111, and 426
- Results will allow the Highway Division to focus on improved safety and public outreach strategies



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NORTH WASHINGTON STREET BRIDGE REPLACEMENT

Public Outreach

Project Updates

- Construction Look Aheads for upcoming work
- Notifications for major operations and night work
- Shared on:
 - MassDOT project website
 - Email updates to project subscribers (address will be shown at end of presentation)



NORTH WASHINGTON STREET BRIDGE REPLACEMENT

North Washington Street Bridge Replacement

You are subscribed to North Washington Street Bridge Replacement Updates from Massachusetts Department of Transportation.

North Washington Street Bridge (Charlestown Bridge) Construction Look-Ahead – October 13, 2018 to October 27, 2018

This document provides a brief overview of construction operations and impacts for the North Washington Street Bridge Replacement Project. It will be supplemented by additional notices as needed for high-impact work and changes to traffic configurations beyond those described below.

Site Preparation: October 13 - October 27, 2018

Description: Preparatory work including surveys, bearing measurements, installation of signage including variable message beards, installation of air quality monitors, and borings will be taken on the piers in the median on both sides of the bridge.

Travel Impacts: None

Work Hours: Daytime (7am-6pm)

Utility Relocation: October 13 - October 20, 2018

Description: Electrical utility relocation and upgrades on the south end of the bridge at Keany Square will continue overnight on weeknights by Eversource and on Saturday morning by Comcast.

Travel Impacts: Overnight off-peak lane closures of 2 northbound lanes at the Keany Square intersection; Saturday off-peak lane closure of 1 northbound lane at the Keany Square intersection.

Work Hours: Overnight on weekdays (7pm-5am); Saturday morning 10/13 (5am-12pm); daytime Saturday 10/20 (7am-3pm)

Utility Relocation: October 21 - October 27, 2018

Description: Electrical utility relocation and upgrades on the south end of the bridge at Keany Square will continue overright on weeknights by Eversource and on Saturday morning by Comcast.

Trovel Impocts: Overnight off-peak lane closures of 3 southbound lanes at the Keany Square intersection; Saturday off-peak lane closures of 2 northbound lanes at the Keany Square intersection.

Work Hours: Overnight on weekdays (7pm-5am); Saturday daytime (7am-3pm)

Travel Tips

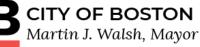
Please take care to pay attention to all signage and police details and move carefully through the work zone. Police details, changes in lane markings, temporary controls such as barriers and traffic cones, signage, and other tools will be used throughout the project to control traffic and create safe work zones.

The contractor is coordinating with the TD Garden and local police to provide awareness and manage traffic impacts during events. For your awareness, during this look-ahead period, the following events are scheduled:

> Celtics: 10/16 at 8pm; 10/22 at 7:30pm Bruins: 10/13 at 3pm; 10/25 at 7pm; 10/27 at 7pm

10/13 at 3pm; 10/25 at 7pm; 10/27 at 7pm 10/14 at 7:30pm; 10/18 at 7:30pm; 10/20 at 5pm; 10/21 at 7pm; 10/26 at 7pn





Public Meetings

Tuesday, 11/27/18, 6:00pm Nazzaro Community Center 30 N. Bennet Street, Boston, MA 02113 Wednesday, 11/28/18, 6:30pm Shriners Hospital for Children 51 Blossom Street, Boston, MA 02114 Thursday, 11/29/18, 6:30pm Knights of Columbus 545 Medford Street, Charlestown, MA 02129

NORTH WASHINGTON STREE

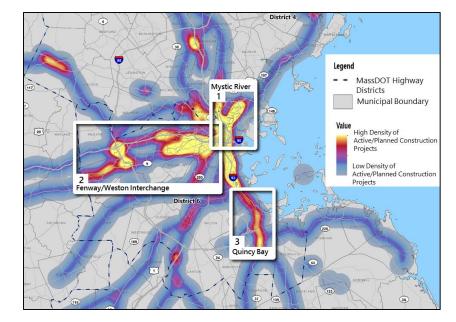
- More public meetings as needed and upon major project milestones
- Public meetings in Charlestown, North End, and West End
 - Advertised in The Boston Globe, The Beacon Hill Times, The Charlestown Patriot Bridge, and NorthEndWaterfront.com
 - Flyers posted in Charlestown, North End, and West End Boston Public Library branches
 - Announcements on the project website and MassDOT Twitter account
 - Email notifications sent to project subscribers and included in the City of Boston Office of Neighborhood Services digital newsletter
- Stakeholder meetings





Regional Outreach and Social Media

- MassDOT social media to broaden outreach
- Regional outreach and specific messaging to specific users
- Outreach to North Shore
- Ongoing coordination with City of Boston



NORTH WASHINGTON STREE



CITY OF BOSTON

Martin J. Walsh, Mayor

facebook.com/massdotinfo







NORTH WASHINGTON STREET BRIDGE REPLACEMENT

Next Steps

Target Milestones

MassDOT/City of Boston finalize and implement temporary December 2018 bridge design February 2019 Pile installation begins in water New playground opens and old playground closes April 2019 North tie-in construction begins June 2019 South tie-in deck construction begins August 2019 Eversource cable cut-over to temp bridge begins Traffic switch to temporary bridge December 2019 Start deck demolition Eversource cable cutover complete January 2020 Major demolition of the existing bridge begins





NORTH WASHINGTON STREE

Current Look Ahead Nov. 25 – Dec. 8

UTILITY RELOCATION

 Utility relocation and upgrades on the outbound side of the bridge (Boston Harbor side) and at the southern end of the bridge at Keany Square will continue weekdays by Eversource and on Saturday by Comcast.

WORK HOURS:

- Weekdays: Daytime (7am-6pm)
- Saturdays: Daytime (7am-3:30pm)

TRAVEL IMPACTS:

- Weekdays: During off-peak, daytime working hours (10am-2pm), outbound traffic will be reduced to one lane.
- Saturdays: During off-peak, daytime working hours on 12/1 and 12/8, inbound traffic will be reduced to one lane.

SITE PREPARATION

 Traffic barrier installation and preparation for sidewalk demolition will take place on the inbound side of the bridge (Charles River side). Drilling of north and south pier borings will continue in the median on both ends of the bridge.

NORTH WASHINGTON STRE

WORK HOURS:

• Daytime (7am-6pm)

TRAVEL IMPACTS:

 During off-peak, daytime working hours (10am-2pm), inbound traffic will be reduced to one lane.

TD GARDEN EVENTS

Bruins:	11/23 at 7:30pm, 11/29 at 7pm, 12/1 at 7pm
Celtics:	11/21 at 7:30pm, 11/30 at 7pm, 12/6 at 8pm
Concerts:	11/24 at 8pm, 11/28 at 6pm, 12/2 at 7:30pm,
	12/4 at 7pm, 12/7 at 8pm







Sign up for progress updates and meeting minutes and learn more about the project at: www.mass.gov/north-washington-street-bridge-replacement



Email your questions, general inquiries, and comments to NorthWashingtonStreet@dot.state.ma.us

MassDOT will answer all inquiries in timely fashion
 Donny Dailey, MassDOT Public Affairs

BOSTON

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G North Washington Street Bridge
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Construction Staging and Traffic Control Video



At this point in the presentation, the project team showed a video rendering of the traffic control for all four construction stages and on the new bridge.

To access the video on MassDOT's YouTube channel, please click

here: https://www.youtube.com/watch?v=ZYEYbUsq9cY















Questions?