Long Island Bridge Demolition Phase

Squantum Community Meeting

FEBRUARY 26, 2015

Michael D. Dennehy
Commissioner

Martin J. Walsh
Mayor
## Acknowledgments

<table>
<thead>
<tr>
<th>Thomas P. Koch</th>
<th>Bruce Ayers</th>
<th>Brian McNamee</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mayor</strong></td>
<td><strong>State Representative</strong></td>
<td><strong>Ward 6 Councillor</strong></td>
</tr>
</tbody>
</table>
Project Team

- City of Boston - Public Works Department
- Contractor - Walsh Construction
- Engineering Consultant - STV Incorporated
- Environmental Consultant – TRC Solutions, Inc.
- Quincy Conservation Commission Consultant – Polaris Consultants, LLC
Long Island Bridge

- **3,450’ IN LENGTH**
- **15 MINUTES TRAVEL TIME FOR PEDESTRIANS**
- **16 SPANS**
- **WATER, ELECTRICITY & TELECOMMUNICATIONS LINES (UTILITIES) ATTACHED TO BRIDGE**
- **UTILITIES SERVE LONG ISLAND & SPECTACLE ISLAND**
Brief History

- Built in 1951
- Connects Moon Island to Long Island
- Limited operational use (10T) since 2006
- Bridge was closed on October 8, 2014
Current Conditions

Closed to all traffic

In demolition
Permitting

- MassEOEEA - MEPA Certificate-Emergency Authorization
- MassDEP - Chapter 91 Emergency Authorization
- Section 401 Water Quality Certification-Authorization of Emergency Action
- Coast Guard Approval
- Boston Conservation Commission Emergency Certification
- Quincy Conservation Commission Emergency Certification
Float/Dry Method

Sequence Notes:
1. Remove Span 1, Span 13 and Span 15 using land-based cranes and excavation.
2. Remove Span 11 floating out on a barge using hydraulic jacks andoldown.
Detonation/Wet Method

Sequence Notes:
1. Remove Spans 12/13/14 simultaneously, using shape charges to drop all three spans clear of existing piers.
2. Using barge mounted equipment (cranes and excavators) and divers with video capability, remove bays 12 and 13 pieces from water and deposit on deck of material barge for further processing.
3. Using barge mounted equipment (cranes and excavators), divers with video capability and land based equipment (excavators), remove bays 14 pieces from water and deposit on deck of material barge for processing.
4. A drift curtain will be installed to contain sediment around drop zone.
5. Vibrators will be used along the face of the piers to scare fish away prior to detonation.
6. Turbidity monitoring will take place before and after detonation.

ELEVATION

STAGE 2 DEMOLITION
LONG ISLAND BRIDGE

PERMIT REVIEW
NOT FOR CONSTRUCTION

PROJECT

DATE

REMARKS

BY

OEB9 - LONG ISLAND BRIDGE

SHEET NO.

OEB1-103
Construction sequence

- Bridge Demolition
  - Navigational Span 11 ✔
  - Spans 12, 13, 14
  - Spans 10, 9, 8
  - Spans 7, 6, 5
  - Spans 4, 3, 2

- Utilities (Water, Electricity, Telecommunications)
  - Dig trench
  - Install utilities
  - Backfill trench
## Schedule

<table>
<thead>
<tr>
<th>Bridge Demolition</th>
<th>Utility Installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>In demolition</td>
<td>Materials/pipes have been ordered</td>
</tr>
<tr>
<td>Navigational span to be removed – week of February 23, 2015</td>
<td>Trench work to begin in April/May 2015</td>
</tr>
<tr>
<td>Detonations in March</td>
<td>Overall work to be completed by June 15, 2015</td>
</tr>
<tr>
<td>Overall work to be completed by April 30, 2015</td>
<td></td>
</tr>
</tbody>
</table>
Construction Vehicle Access Route
Additional Information

- [http://bostonworks.org/portfolio/long-island-bridge-demolition/](http://bostonworks.org/portfolio/long-island-bridge-demolition/)

- Para Jayasinghe, City Engineer
  - (617) 635-4968
  - Para.Jayasinghe@boston.gov