





# Massachusetts Water Resources Authority

MASSACHUSETTS WATER RESOURCES AUTHORITY

## Board of Directors Report

on

## Key Indicators of MWRA Performance

for

Third Quarter FY2016

Q1	Q2	Q3	Q4

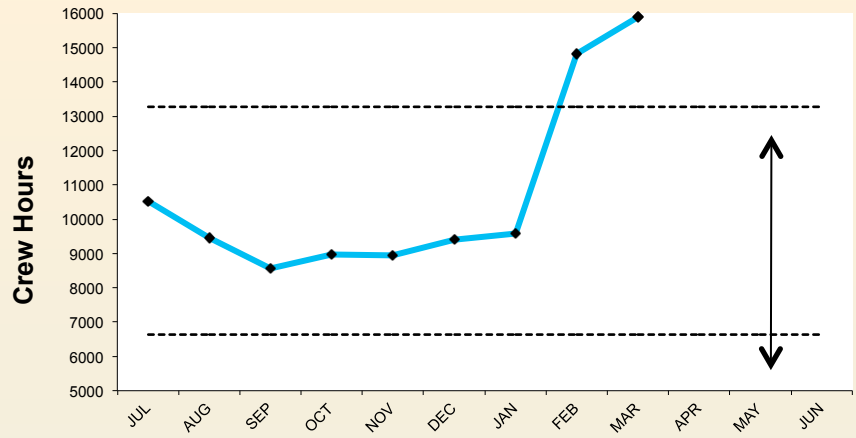


Frederick A. Laskey, Executive Director  
Michael J. Hornbrook, Chief Operating Officer  
May 11, 2016

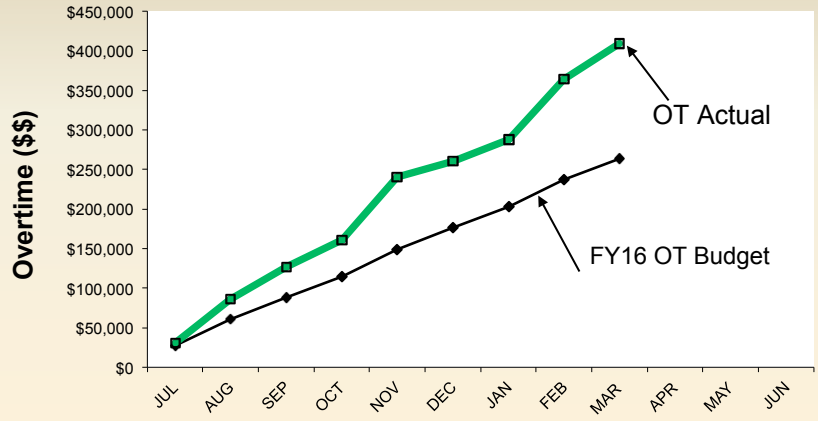


# Field Operations Maintenance

### Maintenance Backlog in Crew Hours

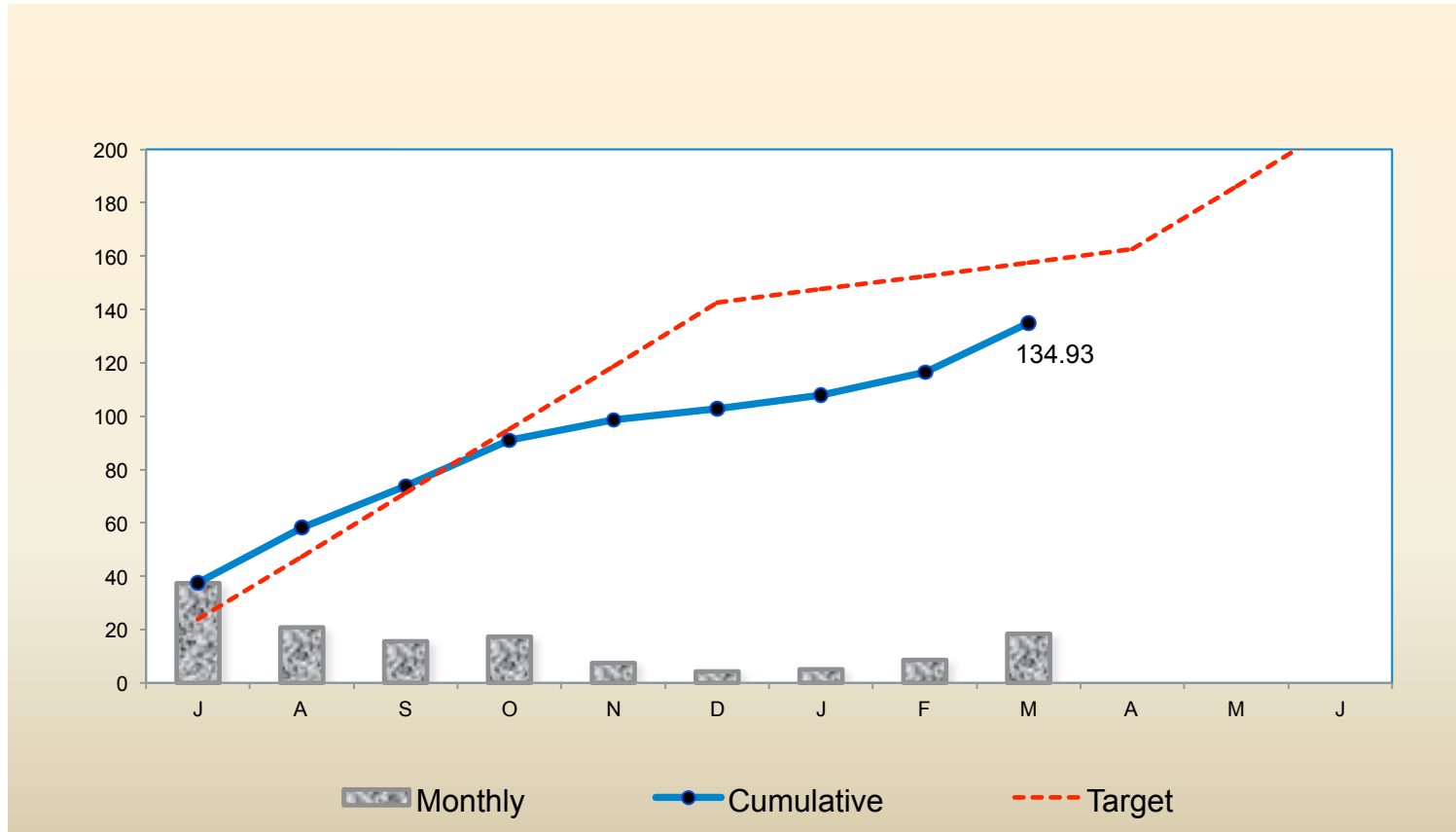


### Overtime Spending





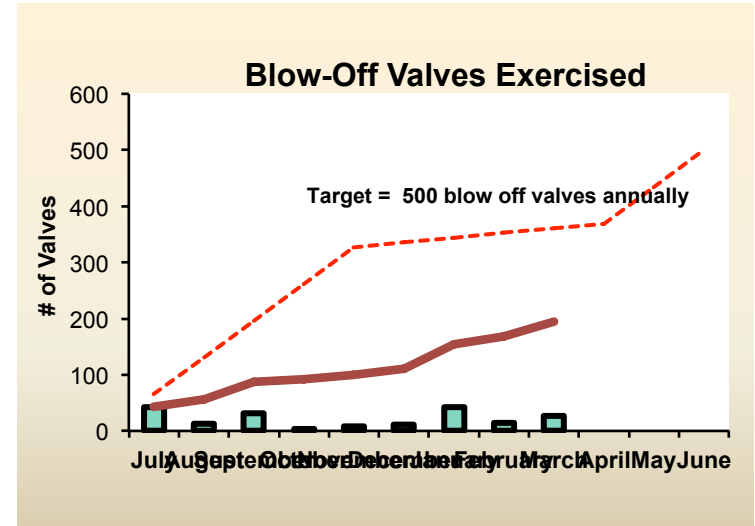
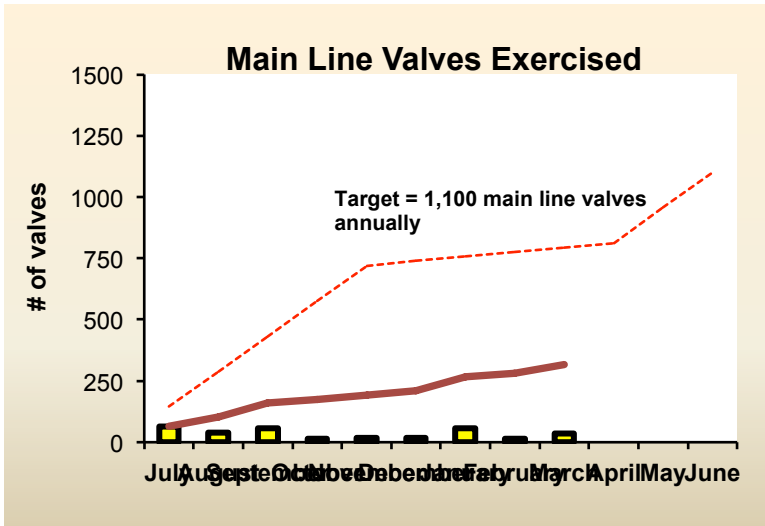
# Operations Division Metering - Miles Surveyed for Leaks





# Water Distribution System Valves

Type of Valve	Inventory #	Operable Percentage	
		FY16 to Date	FY16 Targets
Main Line Valves	2,159	96.30%	95%
Blow-Off Valves	1,317	94.30%	95%
Air Release Valves	1,380	92.80%	95%
Control Valves	49	100.00%	95%





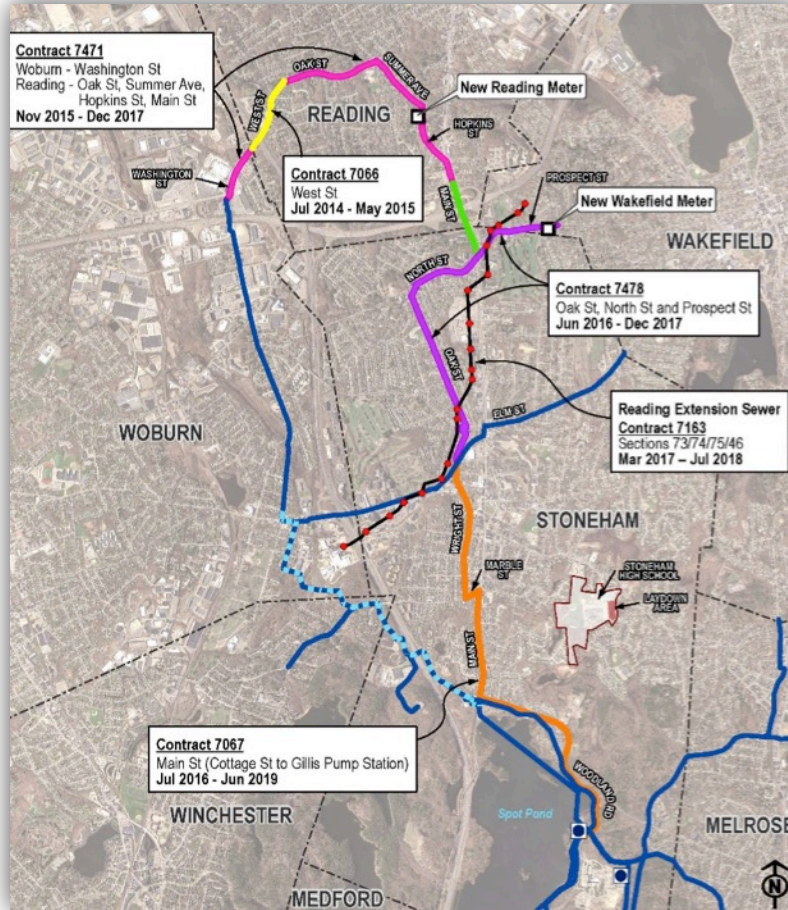


## ***MWRA Projects in Stoneham***

May 11, 2016



# MWRA Projects In Stoneham







# Stoneham High School Parcel







***Beacon Street Line:  
Water Pipeline Repair -  
Brookline***

***Construction Contract 7458***

May 11, 2016



# Beacon Street Line – Bid Tabulation

## Contractor

## Bid Amount

*Engineer's Estimate*

\$1,475,000

R. Zoppo Corp.

\$1,566,178

P. Gioioso & Sons, Inc.

\$1,688,500

P. Caliacco Corp.

\$1,691,815

RJV Construction, Corp.

\$1,718,000



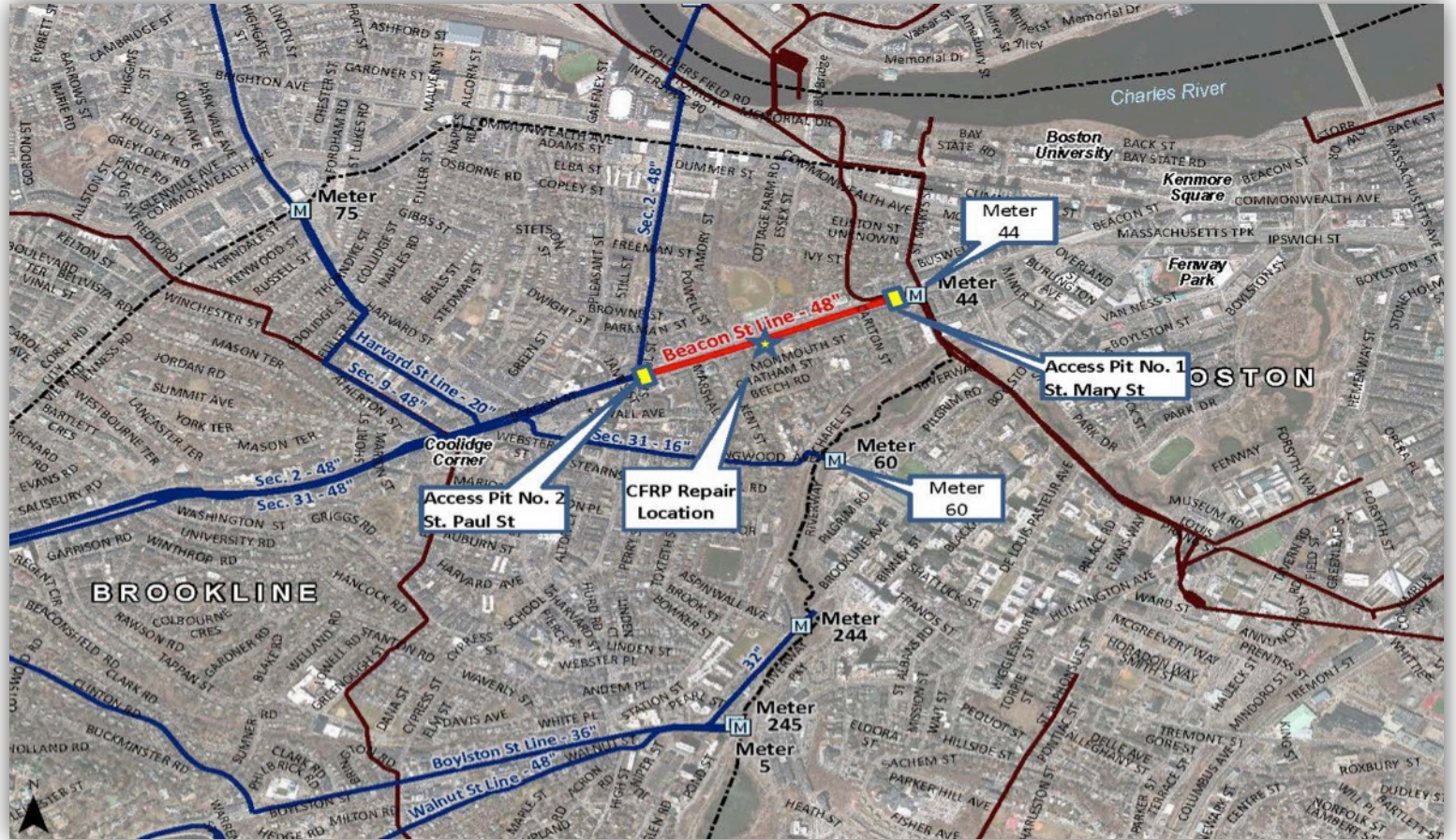
## Beacon Street Line - Brookline

- Constructed in the 1870s, it is part of MWRA's Boston Low Service System
- 48-inch diameter cast iron pipe cement mortar lined in 2000
- A significant portion of it is located underneath the MBTA's Beacon Street Green Line tracks
- The Beacon Street Line water main provides important service to the Longwood Medical area



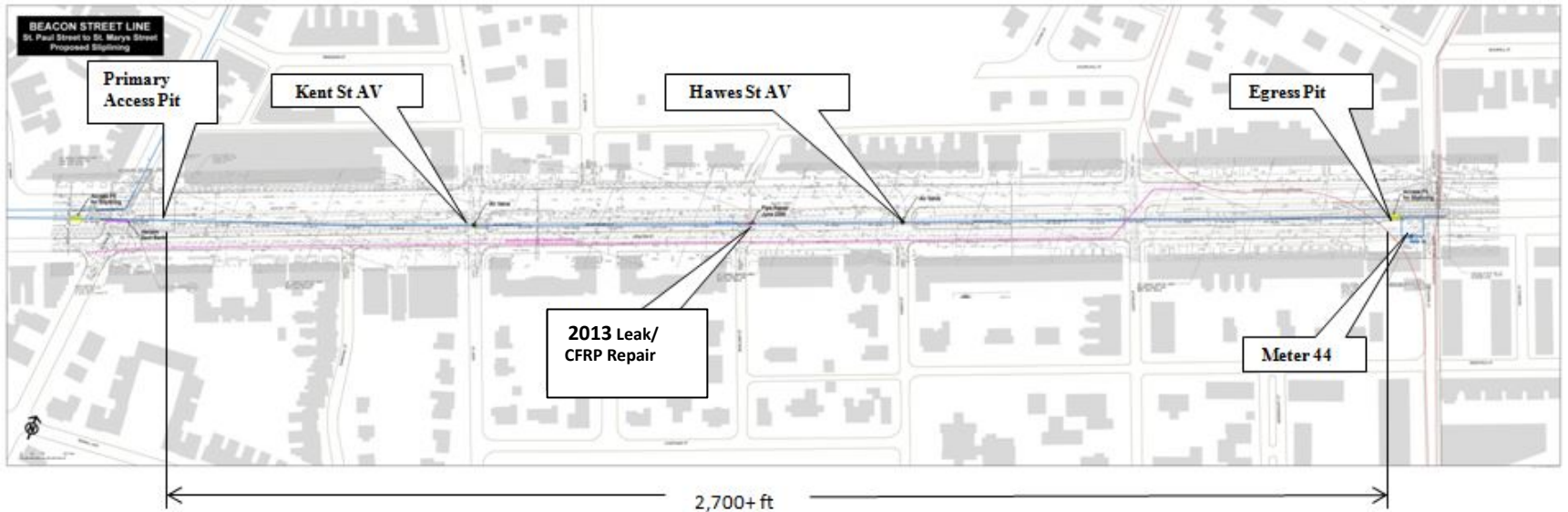


# Beacon Street Line - Brookline





# Beacon Street Line - Brookline





# Beacon Street Line – Carbon-Fiber Reinforced-Polymer (CFRP) Installation

- CFRP installed from within pipe
- Multiple layers of carbon fiber mesh with a resin mixture forms high strength structural lining
- Primary access pit located at previous cleaning & lining 8-ft spool pipe 1,400-ft from repair area
- New chambers installed at access pits







# Beacon Street Line - Brookline



Emergency Egress Pit / Ventilation



Primary Access Pit for Labor and Materials





**Southern Extra High Pipeline  
*Section 111 (Boston)***

***Construction Contract 6454***

May 11, 2016



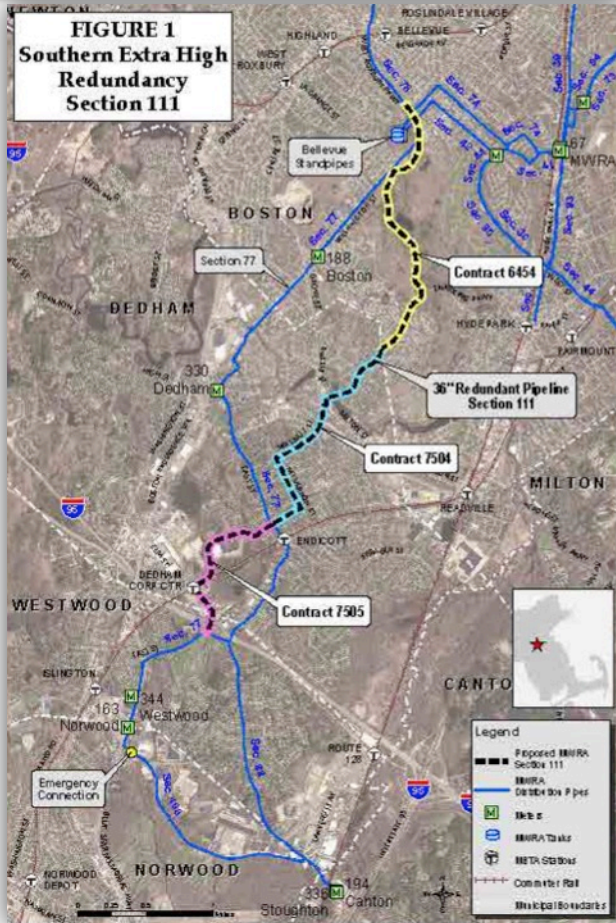
## Section 111 (Boston) – Bid Tabulation

<u>Contractor</u>	<u>Bid Amount</u>
<i>Engineers Estimate</i>	<i>\$13,500,000</i>
Baltazar Contractors Inc.	\$10,880,000*
P. Gioioso and Sons, Inc.	\$11,770,000
RJV Construction Corp.	\$11,915,000
Fed. Corp.	\$12,837,560
Albanese Brothers Inc.	\$14,374,735
Revoli Construction Co., Inc.	\$14,608,000

*\* The contractor, Baltazar Contractors Inc., has requested to withdraw their bid due to a bid error.*



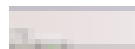
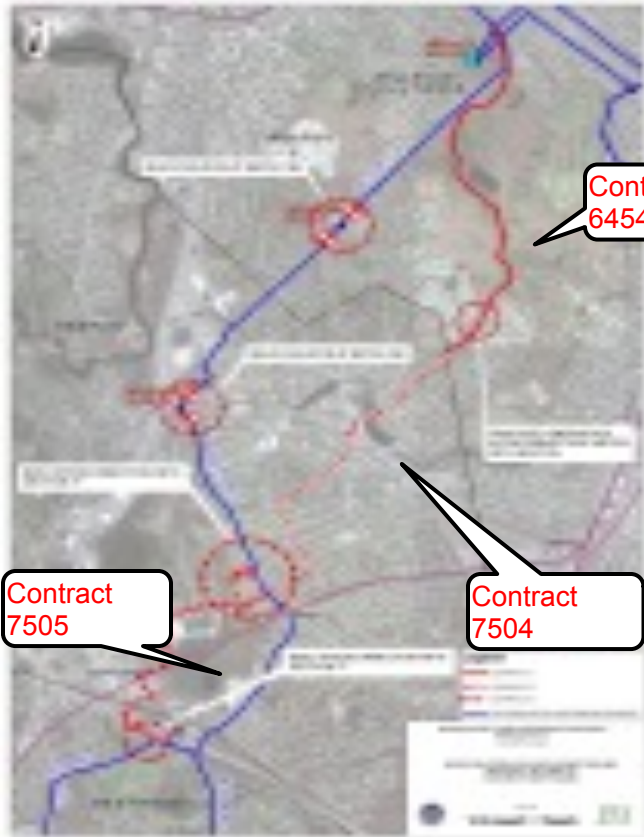
# Southern Extra High Pipeline – Section 111 (Boston)



- 5.4 mile, 36 inch diameter
- DCR Roadways
- Dedham Residential
- Mother Brook Crossing
- Walnut Street Bridge Crossing
- MBTA Crossing
- Route 95 Crossing



# Section 111 - Construction Sequencing



**CONTRACT  
6454**  
11,000'  
Approx. \$11.8M  
NTP 5/16



**CONTRACT  
7504**  
10,000'  
Approx. \$10.7M  
NTP 9/16



**CONTRACT  
7505**  
6,800'  
Approx. \$7.3M  
NTP 12/16





***Section 4 Webster Avenue Pipe  
and Utility Bridge Replacement  
Somerville***

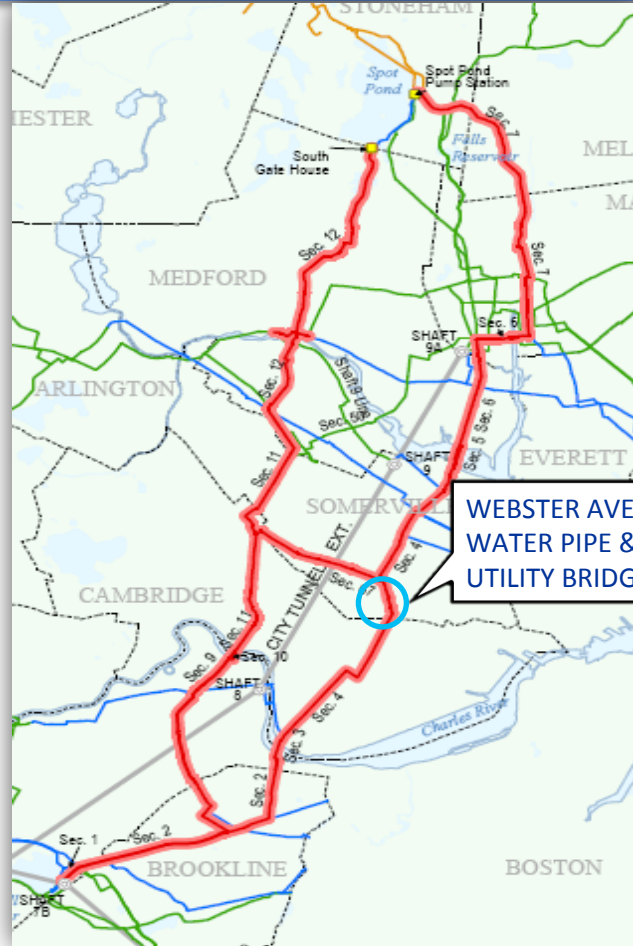
***Contract 7335, NEL Corporation***

May 11, 2016





# Northern Low Service System



WEBSTER AVENUE  
WATER PIPE &  
UTILITY BRIDGE



# Redesign Drawing

