

MBTA Contract No. P02CN09: Systemwide Duct Bank Replacement – Phase 1

June 10, 2019

OVERVIEW

This project will provide for replacement of collapsed duct bank sections, associated manhole structures including added manholes, and related power cable. There are five locations in Boston and three locations in Brookline that will be addressed under this project and have been identified as high-priority locations.





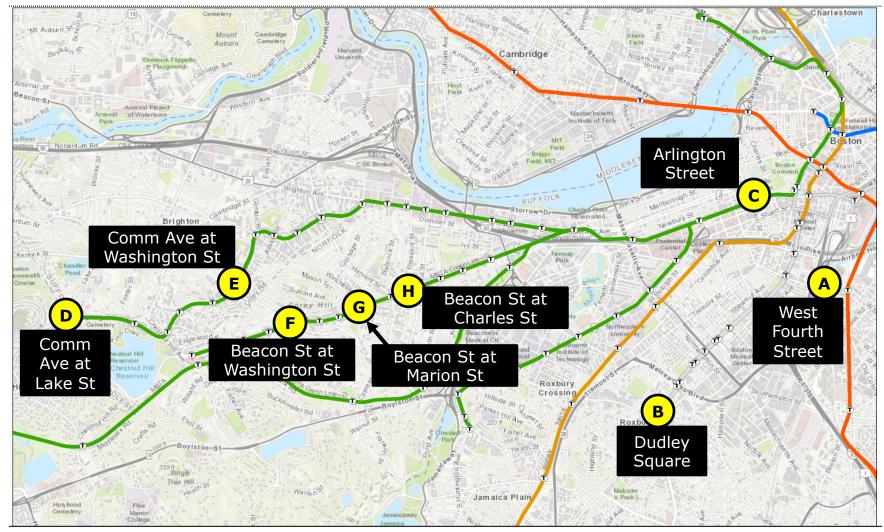
PROJECT BENEFITS

Project Benefits include:

- Improved transit system reliability by addressing power resiliency, resulting in greater customer satisfaction.
- Addressing MBTA reliability and modernization needs through the replacement of collapsed duct banks, manhole structures, and power cables serving Red, Orange, and Green Lines and bus maintenance facilities.



PROJECT LOCUS MAP



CONSTRUCTION SCOPE

This scope of work consists of the replacement of collapsed duct banks that are pathways for AC and DC power cables and includes the following:

- Excavation
- Demolition
- Placing conduits
- Encasement of conduits in concrete
- Installing precast or cast-in-place concrete manholes structures
- Rebuilding existing brick manholes structures
- Backfill as well as installing conduits under the West Fourth Street Bridge
- Installing and splicing of power cables within the manhole structures
- Surface restoration (e.g. roadway paving and sidewalk restoration)

CONSTRUCTION PROCUREMENT

- Project was advertised on May 3, 2019
- Engineer's Estimate is \$14,875,877
- Bid Opening was on May 29, 2019
- Five bids were received:

1. Middlesex Corporation \$17,866,187.29 (Low Bidder)

- 2. Newport Construction, Inc. \$20,187,878.29
- 3. Bond Bros. Inc \$20,391,665.29
- 4. Barletta Heavy Division, Inc. \$20,893,000.00
- 5. Albanese D&S, Inc. \$23,773,577.29
- Bid analysis has been completed



REQUEST OF THE FISCAL AND MANAGEMENT CONTROL BOARD

Capital Delivery request that the Fiscal and Management Control Board authorize the MBTA General Manager, or his designee, to award and execute MBTA Contract No. P02CN09: Systemwide Duct Bank Replacement – Phase 1 to The Middlesex Corporation for an amount not to exceed \$17,866,187.29.



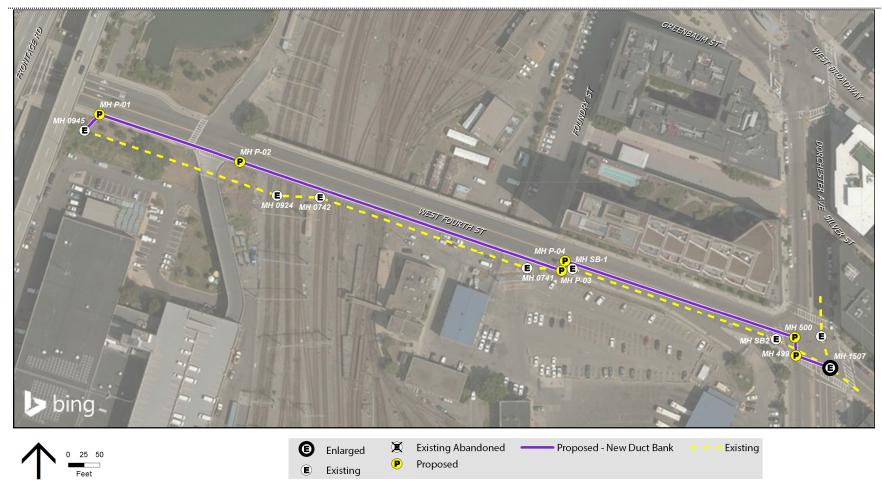
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APPENDIX

Draft for Discussion & Policy Purposes Only

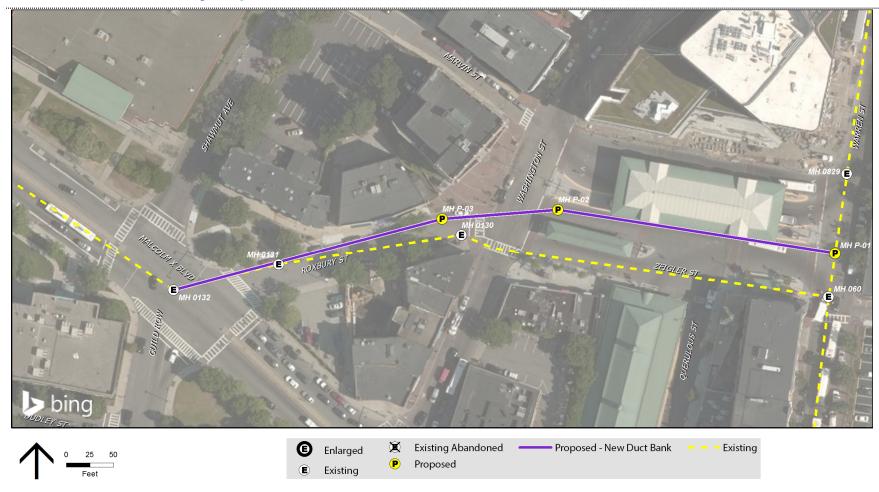


Location A: Cabot Yard/West Fourth Street



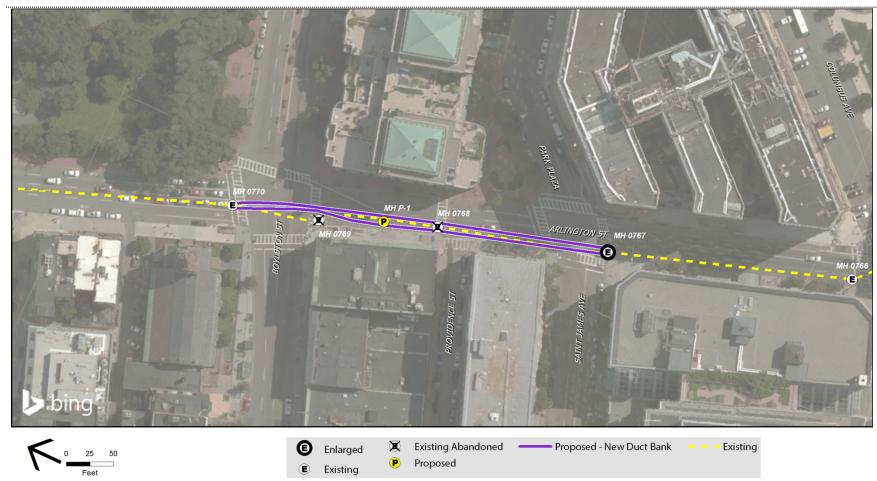


Location B: Dudley Square Bus Station



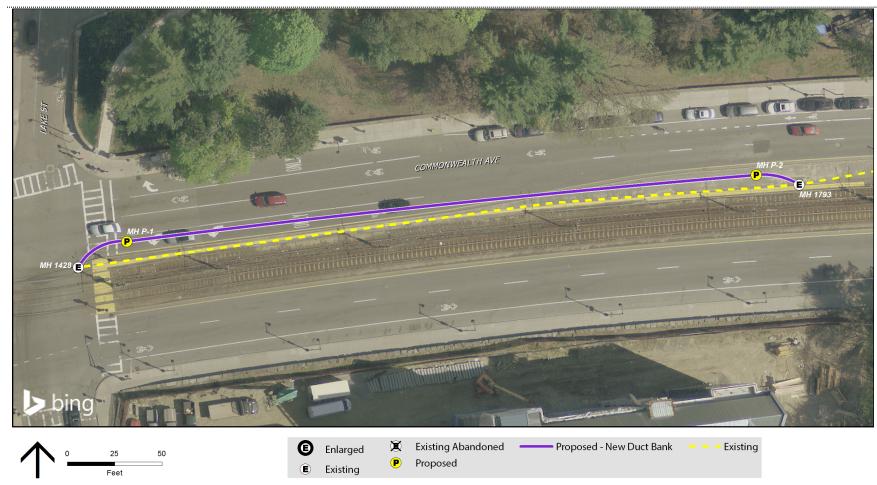


Location C: Arlington Street



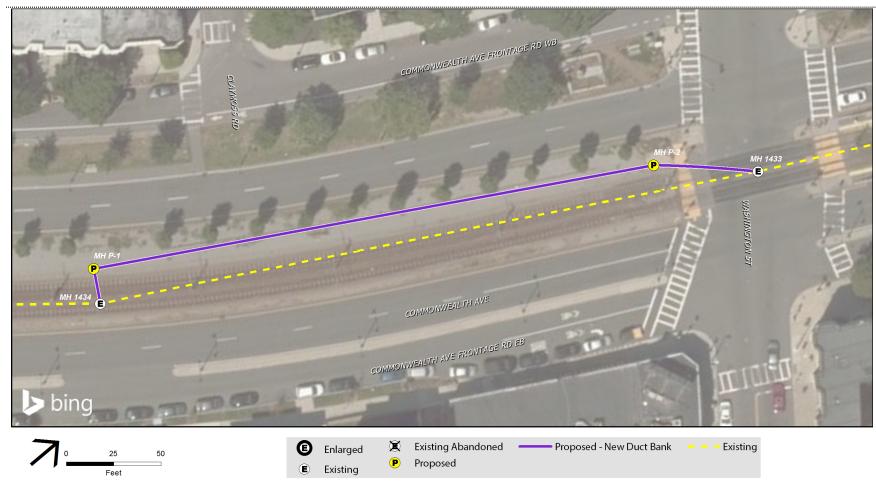


Location D: Commonwealth Ave at Lake Street



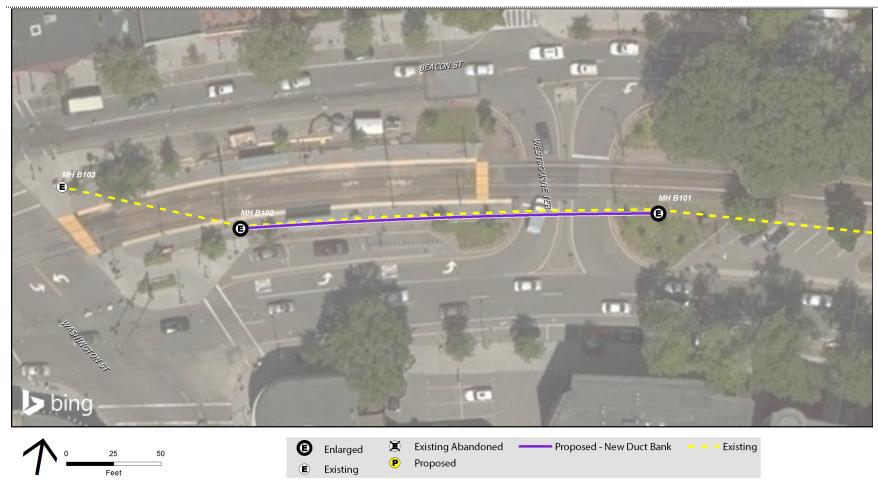


Location E: Commonwealth Ave at Washington Street



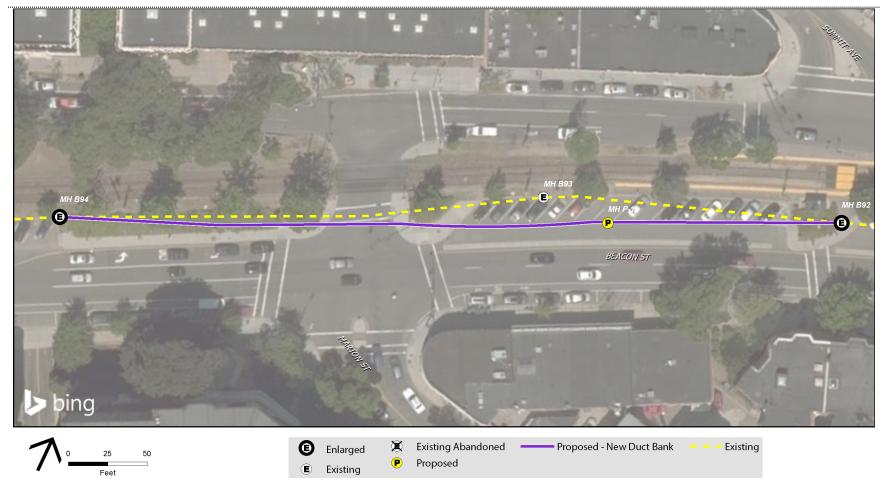


Location F: Beacon Street at Washington Street





Location G: Beacon Street at Marion Street





Location H: Beacon Street at Charles Street

