



*Metropolitan Tunnel Redundancy  
Program Update*

December 16, 2020



## Program Update

- Program Staffing
- Preliminary Design, Geotechnical Investigation and Environmental Impact Report
- Community and Stakeholder Outreach
- Expert Review Panel (ERP)
- Other Ongoing Program-Wide Activities

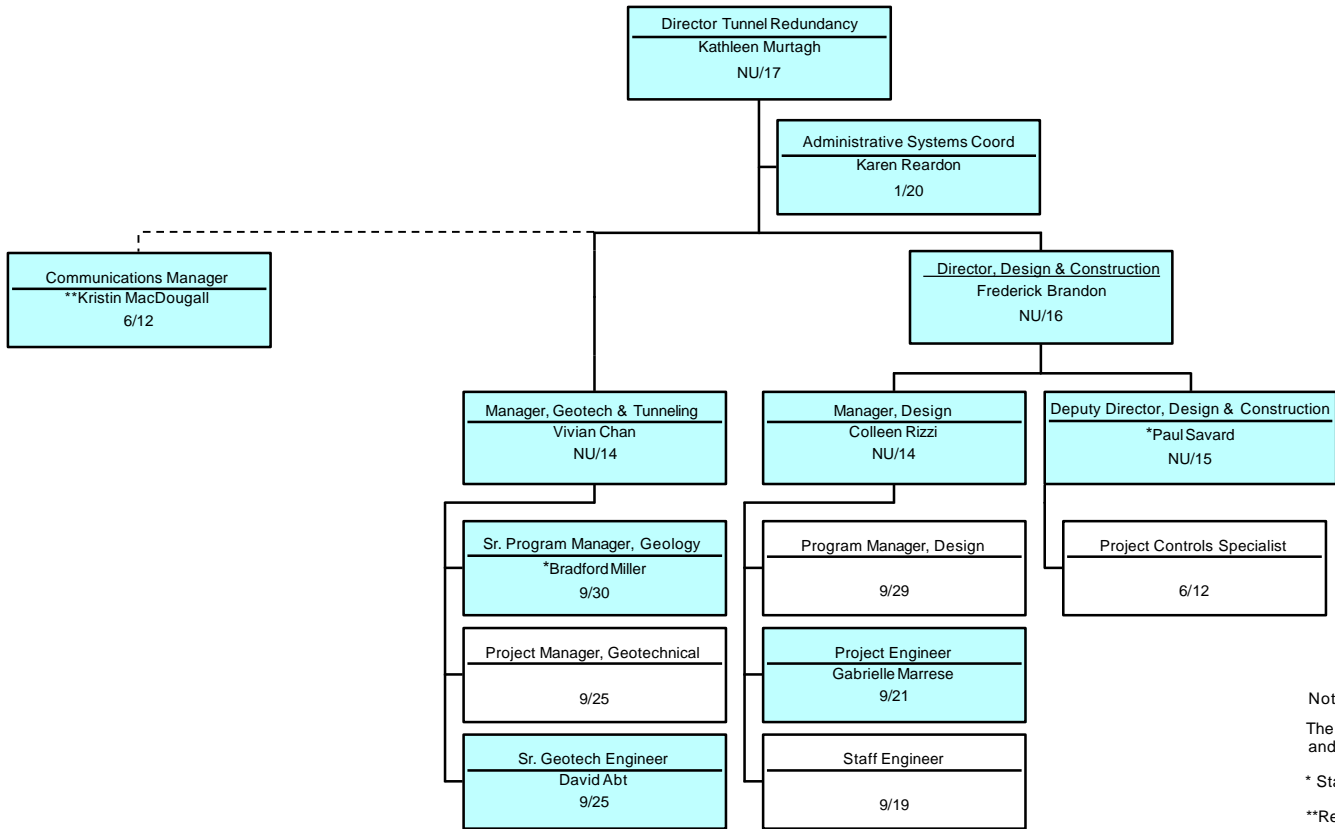


# Tunnel Department Staffing Approach

- Build staff capacity to match Program needs
  - Bring expertise and experience necessary to support the Program
  - Plan for the future of the Tunnel Department
  - Grow with the Program
  - Consistent with Expert Review Panel recommendations
  - Approach is consistent with Boston Harbor Project and MetroWest Tunnel
- Tunnel Department staff are assisting with non-tunnel projects where their expertise is helpful



# Tunnel Redundancy Department Organization Chart



Notes:  
The shaded boxes are filled positions and the white boxes are vacant positions.  
\* Start Date: January 2021  
\*\*Reports to the Executive Office



# Preliminary Design Key Activities

## Preliminary Design Began in July 2020:

- Duration of 3.5 years
- File Environmental Notification Form (ENF) in early 2021
  - ENF will propose Program Study Area for Tunnel Alignment Alternatives Evaluation
- Evaluation of Alternatives (2021 – 2022) - Select Shaft and Connection Locations
- Extensive Public Engagement – Working Group (early 2021 – 2023)
- Geotechnical Investigations (begin early 2021)
- Mapping and Survey
- Environmental Impact Reports (Fall 2022)
- Preliminary Design (complete by Dec 2023)





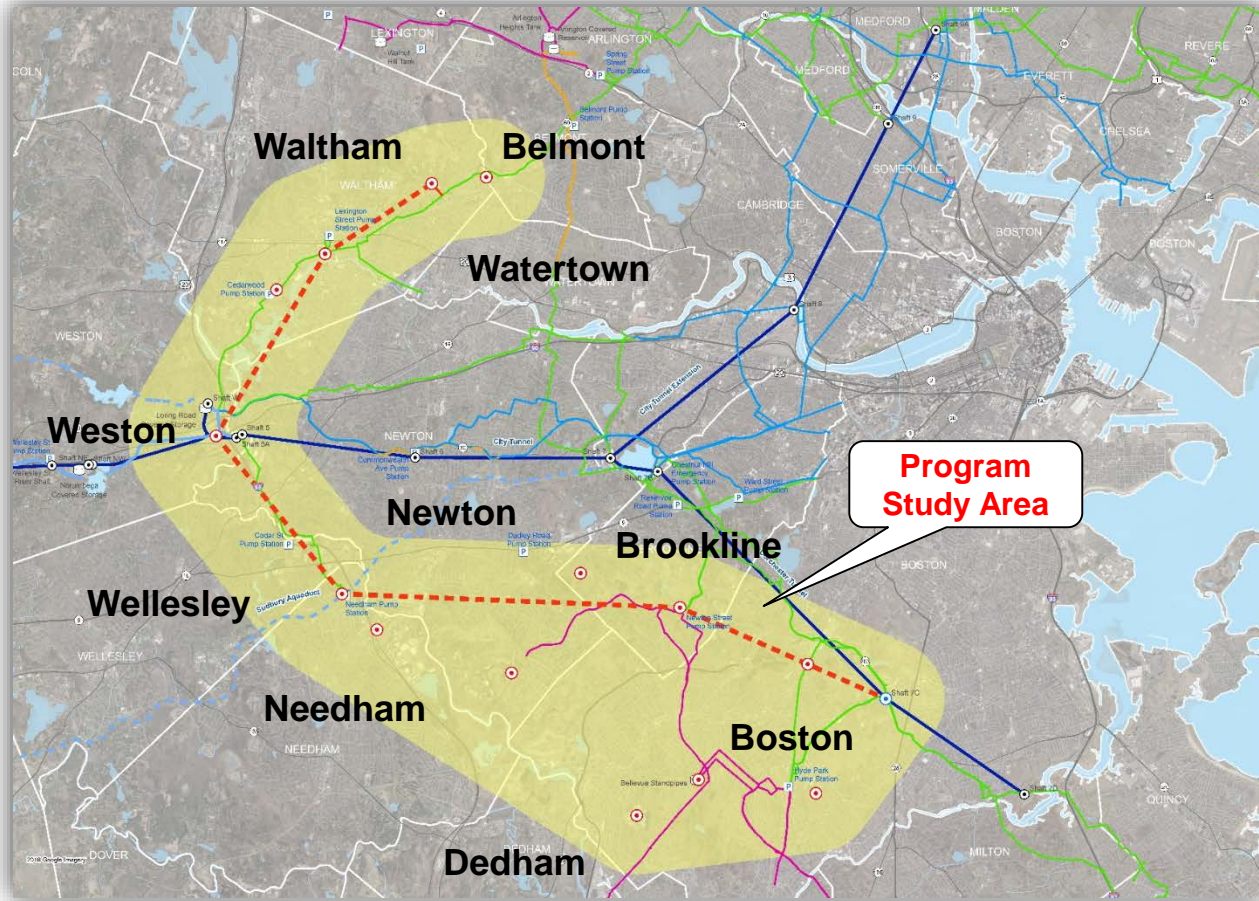
# Tunnel Redundancy Program Schedule

- Technical Assistance: 2023
  - Field work – borings, survey, etc.
  - Other “data” collection
- Final Design: begin in 2024
  - Two or more final design contracts
  - Additional geotechnical investigation, survey, State and local permitting
  - Preparation of bid documents
- Construction Manager: begin in 2025
  - Evaluating # of contracts
  - Provides management and inspections of all construction work
  - Experienced with rock tunnel construction
- Construction: begin in 2026 or 2027
  - Two or more tunnel construction packages
  - Each contract lasts 5 years+/-





# Program Study Area



--- Conceptual Tunnel Alignment





# Tunnel Working Group Concept

- Includes all 10 communities
  - One (or more) representative from each community
  - Initial Working Group for this Program will consist to 10 to 12 members
- Transparent process for evaluating and selecting shaft sites and tunnel alignments
- First Working Group meeting in early 2021, prior to filing ENF
- Monthly meetings through the evaluation of alternatives (Winter 2021 – Spring 2022)

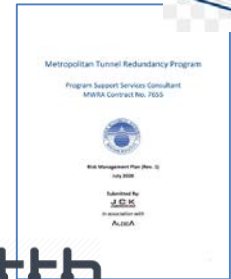






# Expert Review Panel Meetings

- November 2019 – Program Kick-Off
  - Program management, staffing, communications, tunneling and geotechnical challenges, contract practices
- September 2020
  - Risk Management Plan
- September 2020
  - Preliminary Design Work Plan and Schedule
- January 2021
  - Geotechnical Investigation Work Plan (Ph1A)





# Other Program Activities

## Completed Program-Wide Guidelines and Standards

- Program Risk Management Plan
- Program Quality Management Plan
- Program Delineation Report
- Existing Geotechnical Data Report
- Geotechnical Field Manual
- Geotechnical Data Management Plan
- Hydraulic Analysis
- Program Management Plan
- Document Control Plan
- Style Guide
- Program Web Page

## Ongoing Program-Wide Activities

- Expert Review Panel
- Program Guide Specifications
- Program Budget Analysis
- Program Schedule Development
- Project Controls
- Contract Practices
- Community and Stakeholder Outreach
- Industry Outreach



# Future Board Updates

Plan to update Board at key milestones through Preliminary Design

- Proposed tunnel alignment and shaft sites (late 2021/early 2022)
- Draft Environmental Impact Report (mid 2022)
- Geotechnical program progress (TBD)
- Preliminary Design (multiple, mid-late 2023)
  - Cost estimate
  - Schedule
  - Contract packaging

Additional updates – topics/dates TBD





Thank You

