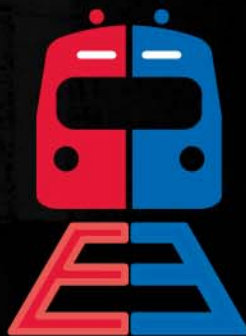


EOT

MASSACHUSETTS
EXECUTIVE OFFICE
OF TRANSPORTATION

CONCEPTUAL ENGINEERING & DRAFT ENVIRONMENTAL IMPACT REPORT



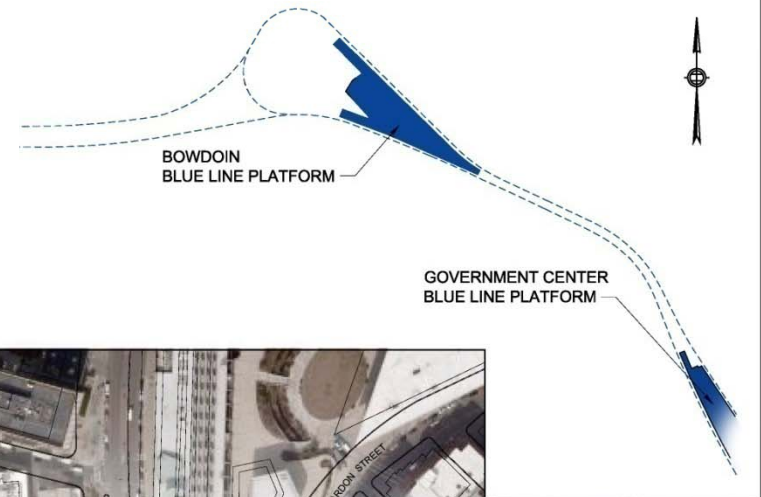
Red Line
Blue Line
CONNECTOR

FIRST PUBLIC MEETING
INTRODUCTION OF PROJECT AND ALTERNATIVES
OCTOBER 26, 2009



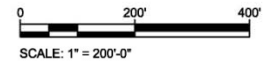
Project Overview

- 1500' extension of Blue Line to Charles/MGH
- Possible *Elimination* or *Relocation* of Bowdoin Station
- Legal Commitment to Complete Design by 12/2011



LEGEND:

	PROPOSED RED-BLUE CONNECTOR PROJECT
	CENTERLINE OF EXISTING RED LINE TRACK
	EXISTING RED LINE TUNNEL WALL
	CENTERLINE OF EXISTING BLUE LINE TRACK
	EXISTING BLUE LINE TUNNEL WALL



Project Goals

- Connect the only two of Boston's rapid transit lines that do not intersect.
- Improve mobility & regional access for East Boston, North Shore, Cambridge & western suburbs.
- Increase transit ridership.
- Reduce automobile travel through downtown, improve air quality and reduce congestion.
- Reduce volume at downtown transfer stations.
- Enhance access to MGH and surrounding medical facilities.

Corridor Background

- Prior to 1924, streetcars serving Bowdoin would surface on Cambridge St. and continue across the Longfellow Bridge.
- The Cambridge St. portal was sealed, leaving a dead-end tail track for train storage.
- This connection was broken in 1924 when streetcars were replaced with rapid transit vehicles.
- The loop track at Bowdoin became the end of the line.

Scollay Square, Boston, in the 1880s.



Planning Context and **Next Steps**

- 1986 Feasibility Study & Final Report
- 1987 Preliminary Design & Environmental Study
- Central Artery Project Mitigation Measures
- 2008 SIP Commitment
- 2007 EENF

Next Steps

- **2009 Alternatives Analysis / 10% Conceptual Engineering Report**
- **2010 DEIR**
- **2011 EIR & Final Design**

Project Impacts on Blue Line Service

Operations

- Extension would add approximately 5 minutes to the total round trip time on the Blue Line.*
- Extension is expected to require two additional peak period trains to maintain headways. This would increase Blue Line operating costs.*

*1986 Feasibility Study

Ridership

- Ridership on the connector is expected to be between 3,800 and 9,000 weekday riders.*
- Studies expect the project to generate approximately 3,100 new daily transit trips; 1,700 walk trips diverted to transit and 1,400 trips diverted from automobiles.*

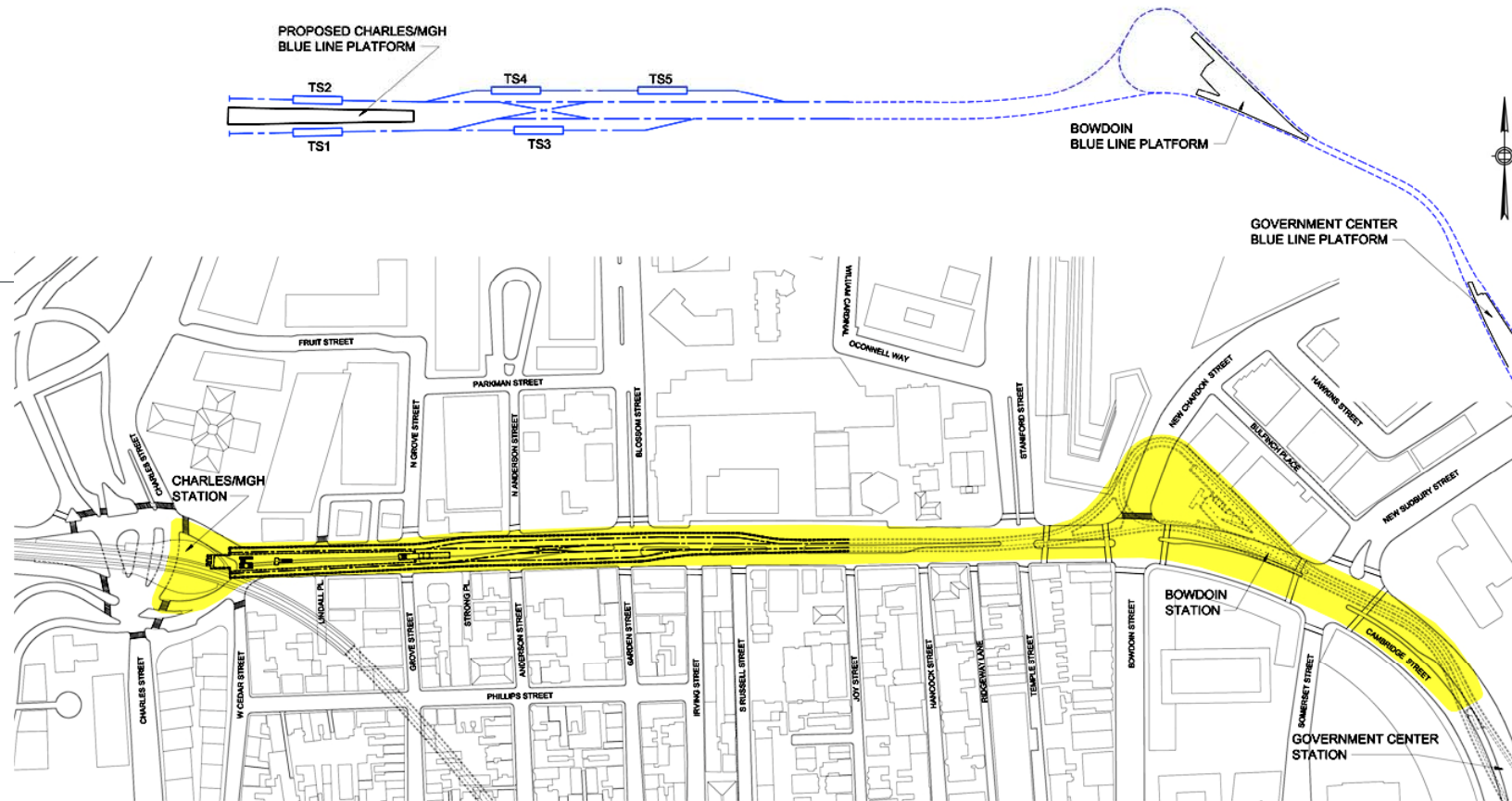
*2005 MBTA estimate

STV Project Timeline

- NTP – December 15, 2008
- Project Start-up – December 2008 to February 2009
 - *Initiate Public Involvement including abutter, state agencies, City of Boston, etc.*
 - *Data collection, existing conditions review, etc*
 - *Develop design criteria, etc.*
- Alternatives Refinement/Conceptual Engineering - March 2009 to September 2009
 - *Identify Issues (goals, operational issues, community issues, traffic, constructability, institutional, environmental, etc)*
 - *Develop_{short} -list of alternatives and station concepts*
 - *Develop conceptual plans (architectural, civil, structural, traffic, utilities, track, power, etc)*
- Submit 10 % Design Report - December 2009
- Alternative Analysis – October 2009 to December 2009
- Submit Draft – Draft Environmental Impact Report – February 2010
- Submit Draft Environmental Impact Report – April 2010
- Public Hearing - May 2010
- Certificate Issued – June 2010

Track Diagram

Charles/MGH Station Alternatives 2 & 3 – EENF Configuration

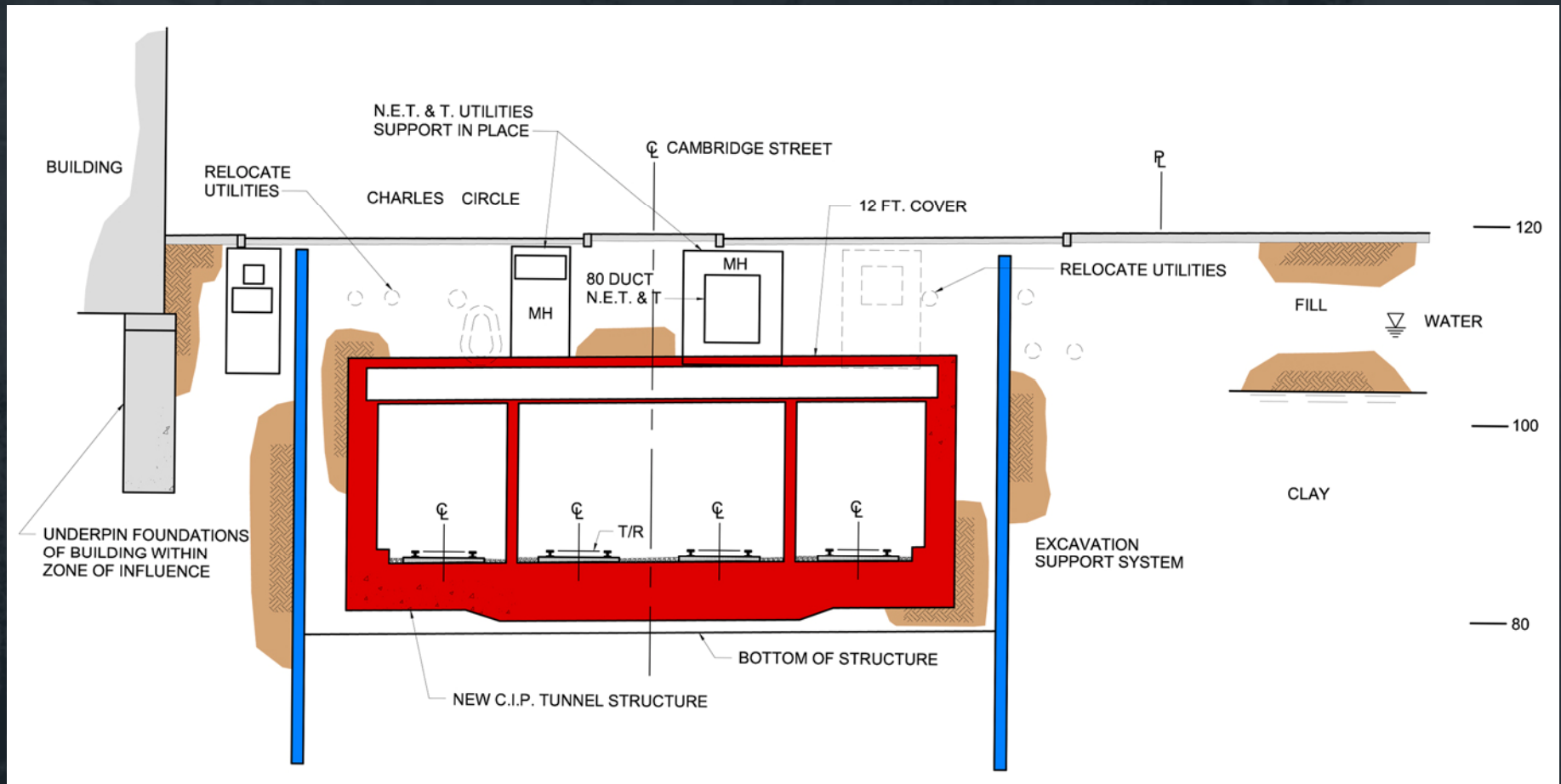


Alternative Analysis:

- **No Build**
- **Alternative 1: Red / Blue Line Connector with Elimination of Bowdoin Station**
- **Alternative 2: Red / Blue Line Connector with Relocated Bowdoin Station**

EENF Cut & Cover Alternative

Tunnel Construction near Blossom Street - EENF Tunnel Configuration Section



Impact Assessment

- Noise & vibration
- Historic/Archeological
- Groundwater
- Parklands
- Construction period
- Ridership
- Traffic
- Operations
- Land takings
- Air quality



Tier 1 Alternatives Evaluation Criteria

32 Alternative Schemes

- *MGH Schemes*
- *Bowdoin Eliminated*
- *Bowdoin Relocated*
- *Mined Tunnel*
- *Cut & Cover*

- Platform Type
- Depth to Top of Rail at MGH
- Constr. Type
- Horizontal Alignment
- Vertical Alignment
- Storage Capacity
- Pros & Cons
- Compatible with Schemes

Tier 2 Alternatives Evaluation Criteria

4 Alternative Schemes

▪ Transit Service/ *Operations

- **Ridership*
- *Station Access*
- *Quality of Transit*
- *Operations*
- *Storage and Layover*

▪ Construction Impacts

- *Construction Duration*
- *Traffic Impacts*
- *Pedestrian / Bicycle Impacts*
- *Environmental Impacts (related to construction)*
- *Impacts to Blue Line Operations*
- *Impacts to Red Line Operations*
- *Impacts to Business and Residents*

▪ Community Impacts

- *Impact on Business Community*
- *Impact on Residents*
- *Impact on Cambridge Street*
- *Opportunity to Upgrade Utilities*

▪ Environment

- *Historic/Archeological*
- *Noise and Vibration*
- *Groundwater/ Stormwater*
- *Parklands*
- *Traffic*

▪ Cost Impacts

- ***Capital Costs*
- *Operation and Maintenance Costs*

▪ Coordination

- *Available Right of Way*
- *Impact on Other Area Transportation Projects*
- *Compatibility with SIP*

**CTPS Data In Progress*

***Capital Cost Estimate In Progress*

Construction Methodologies

Cut & Cover

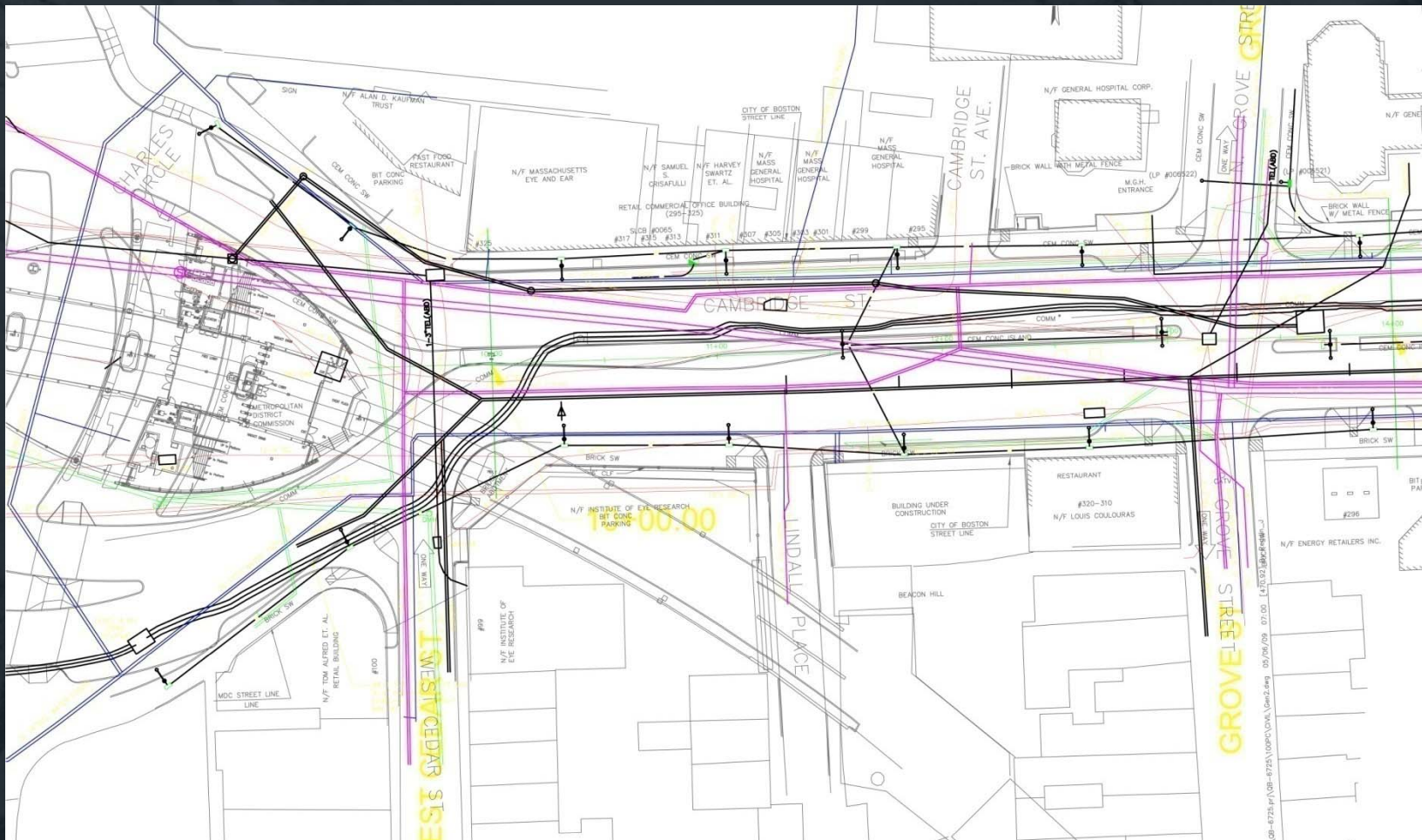


Mining

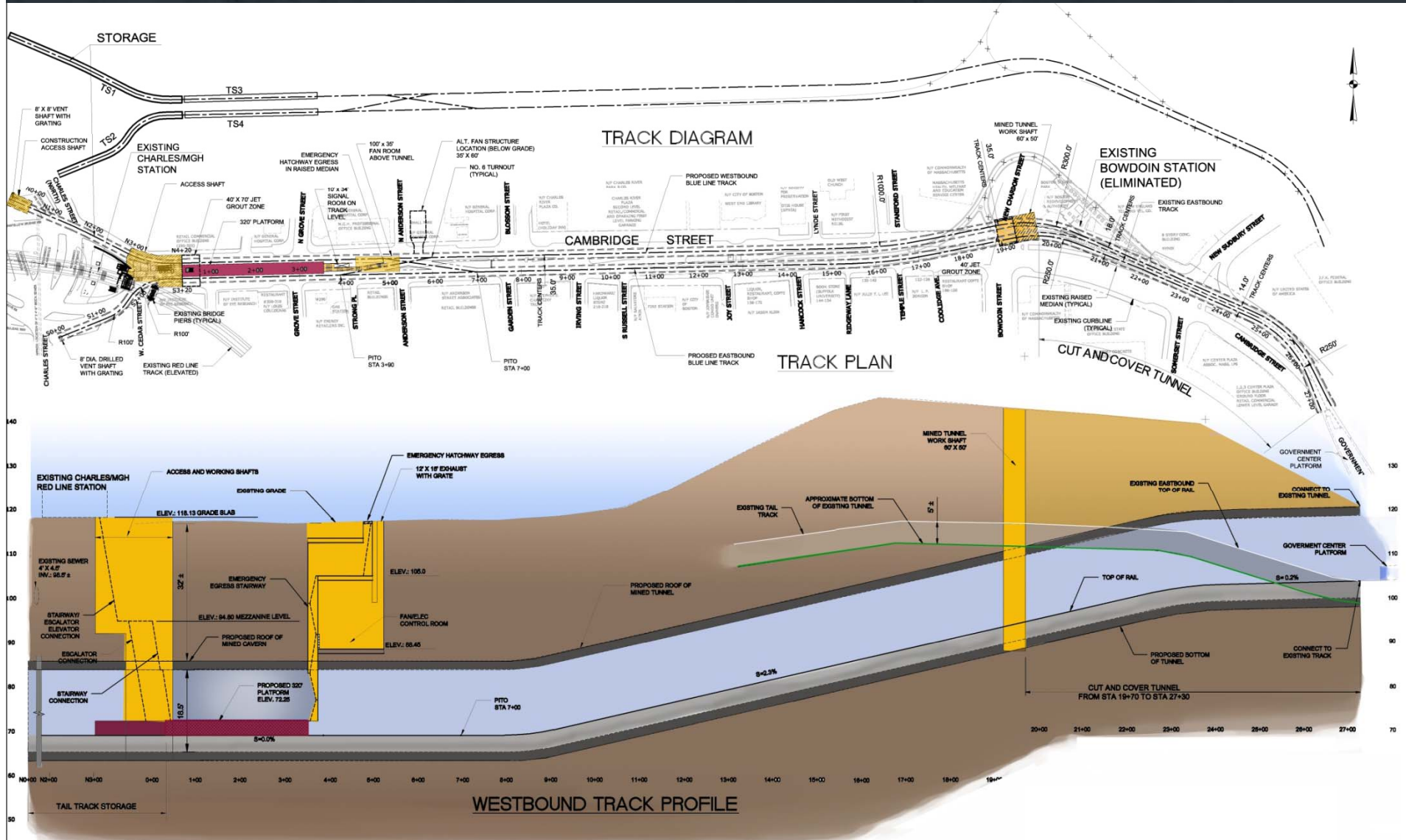


Existing Utilities

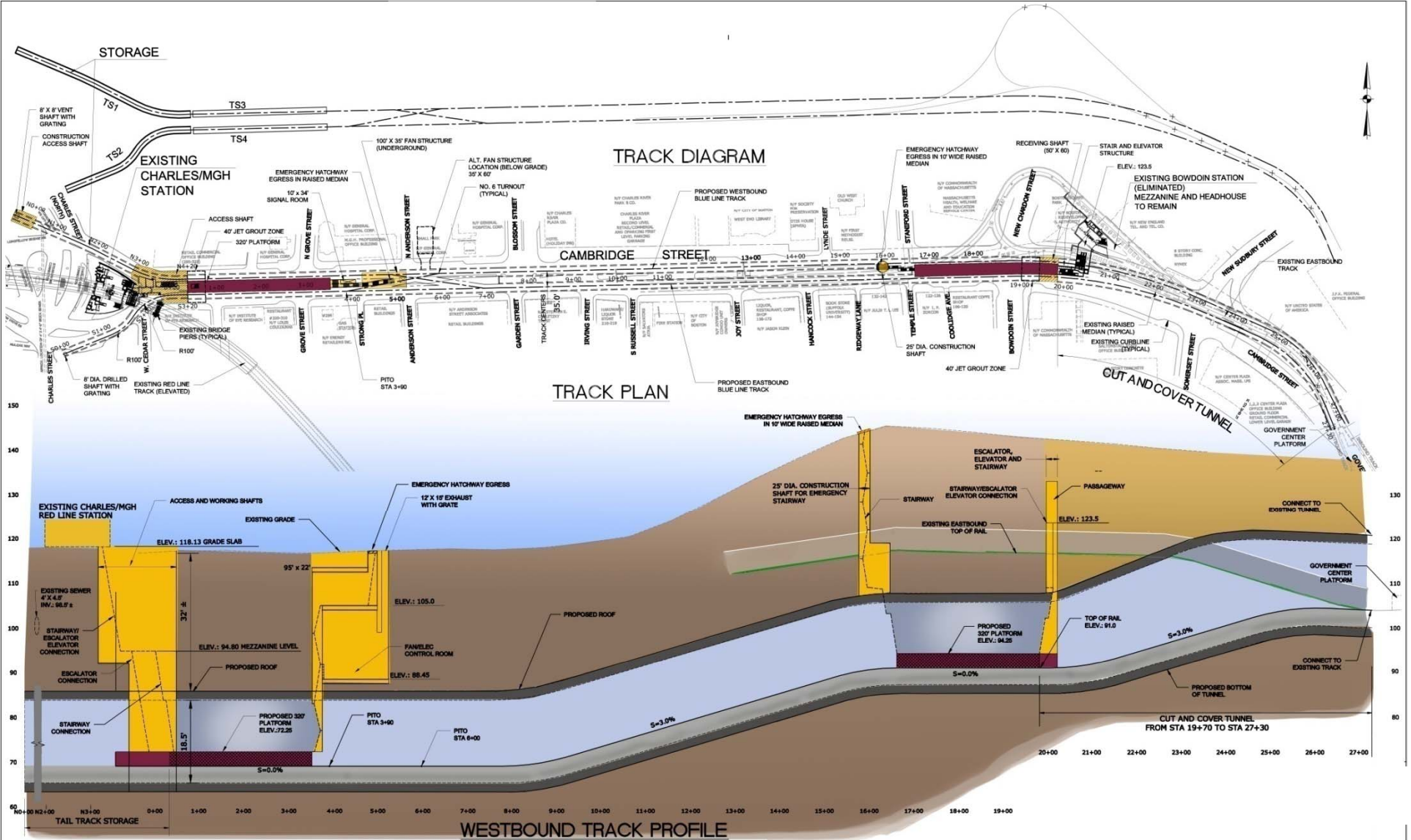
Along and Intersecting with Cambridge Street



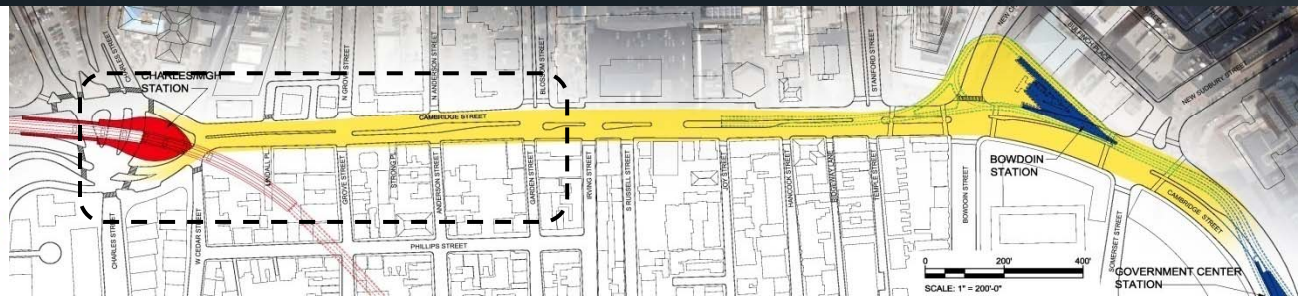
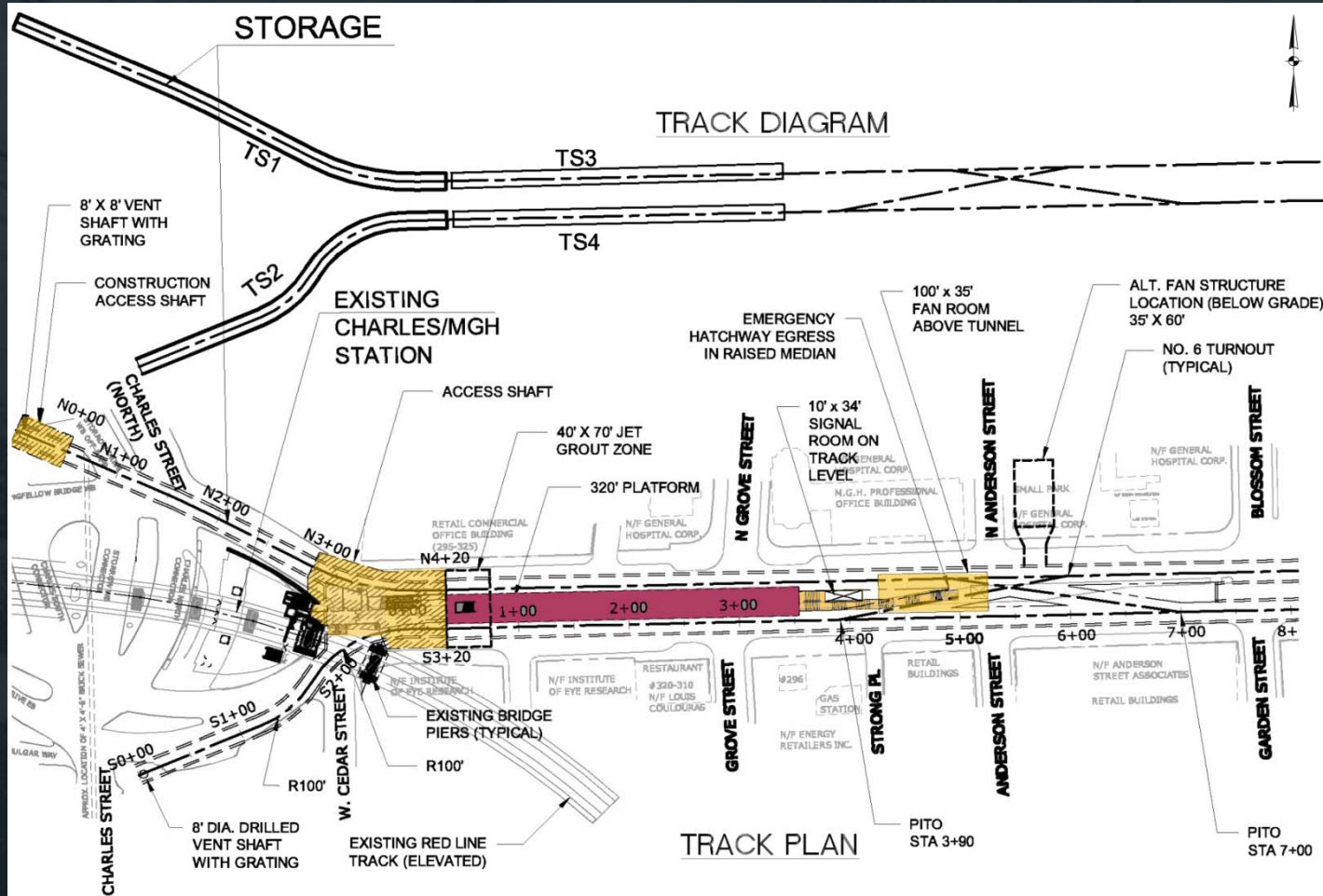
Alternative 1: Red / Blue Line Connector with Elimination of Bowdoin Station



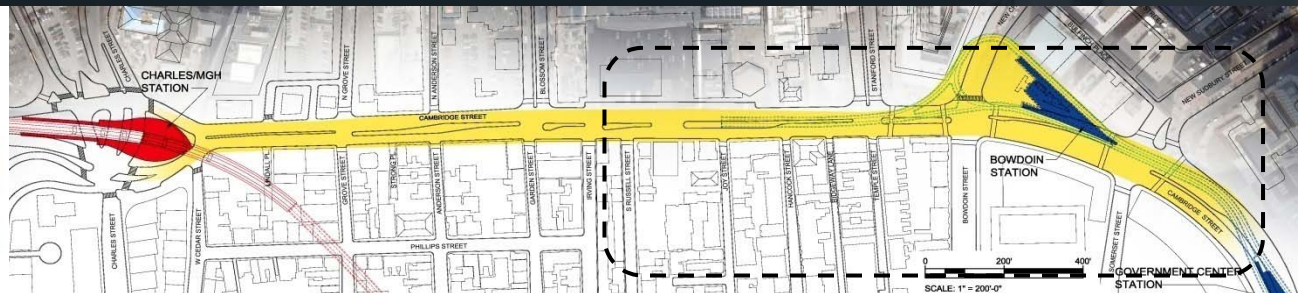
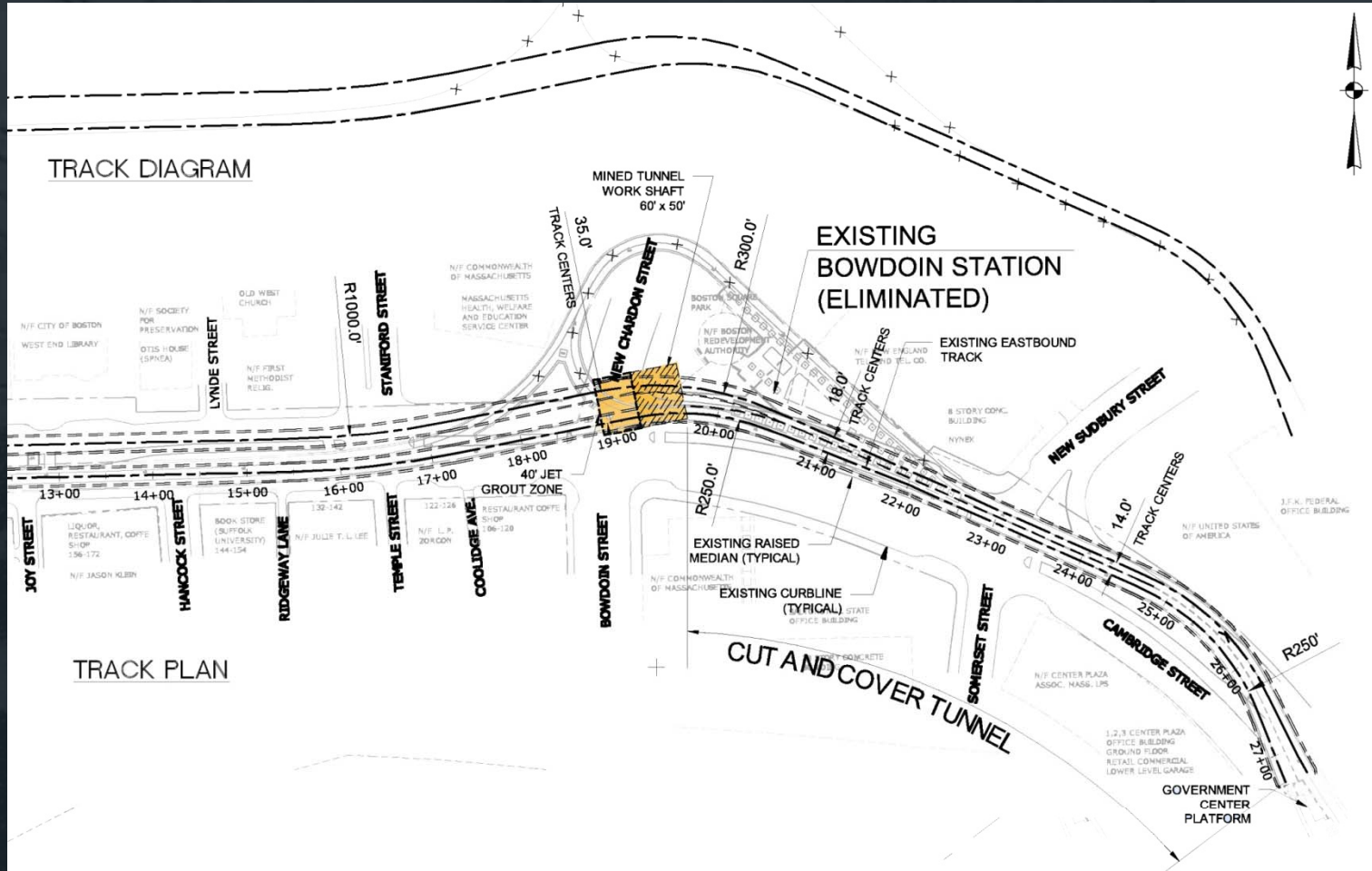
Alternative 2: Red / Blue Line Connector with Relocated Bowdoin Station



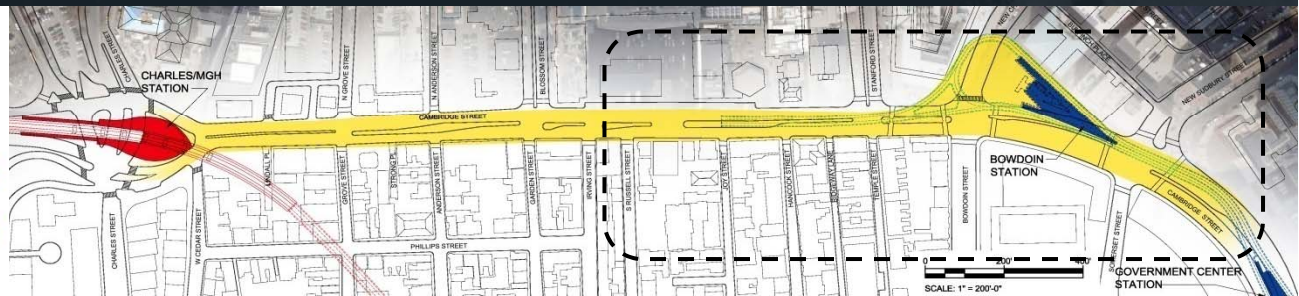
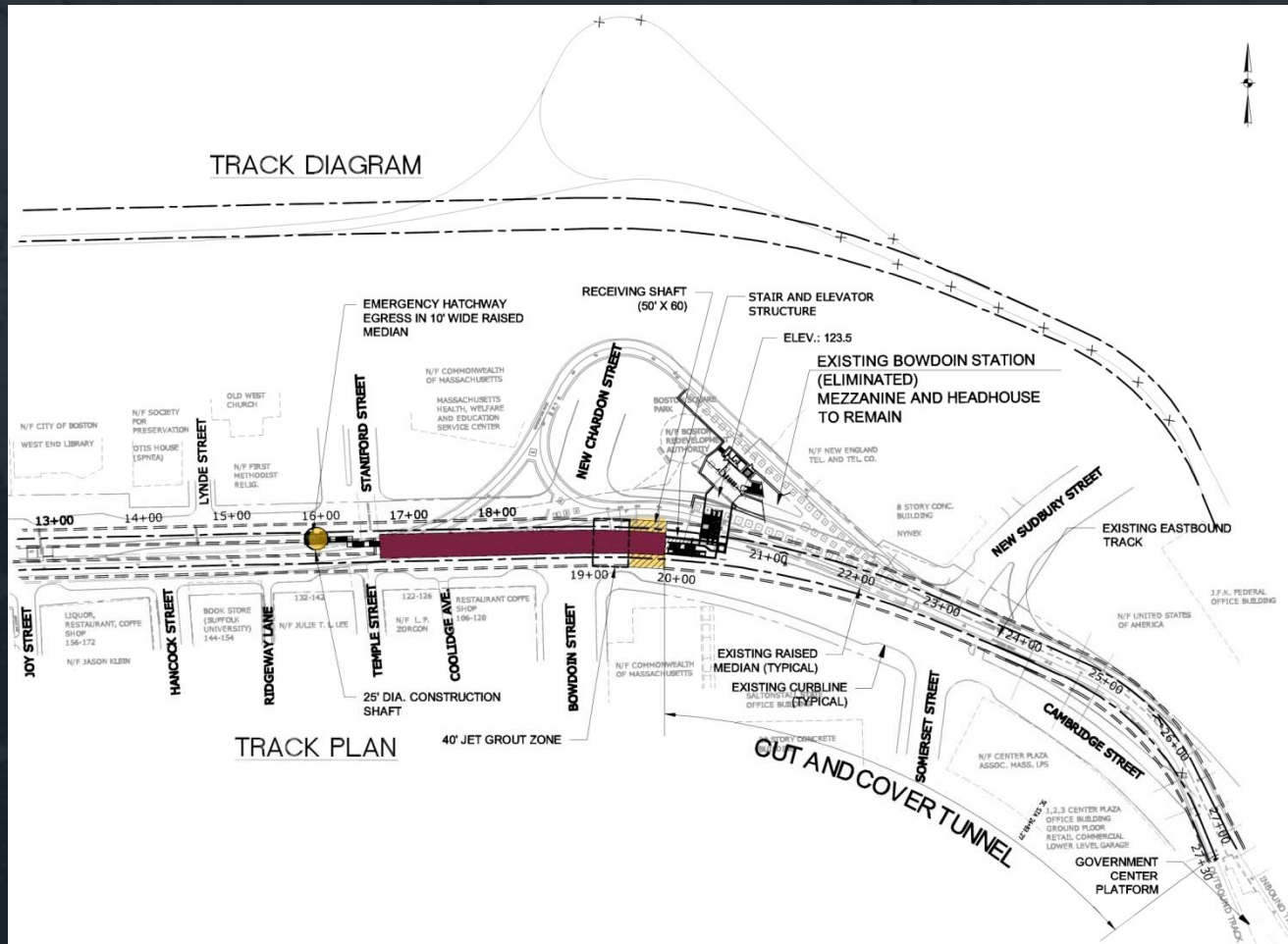
Alt. 1 & 2 Construction Phasing at Proposed Charles/ MGH Blueline Track & Platform



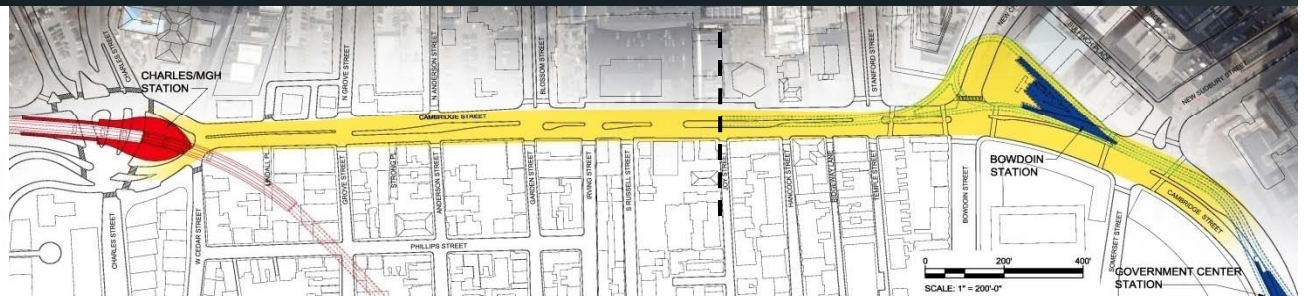
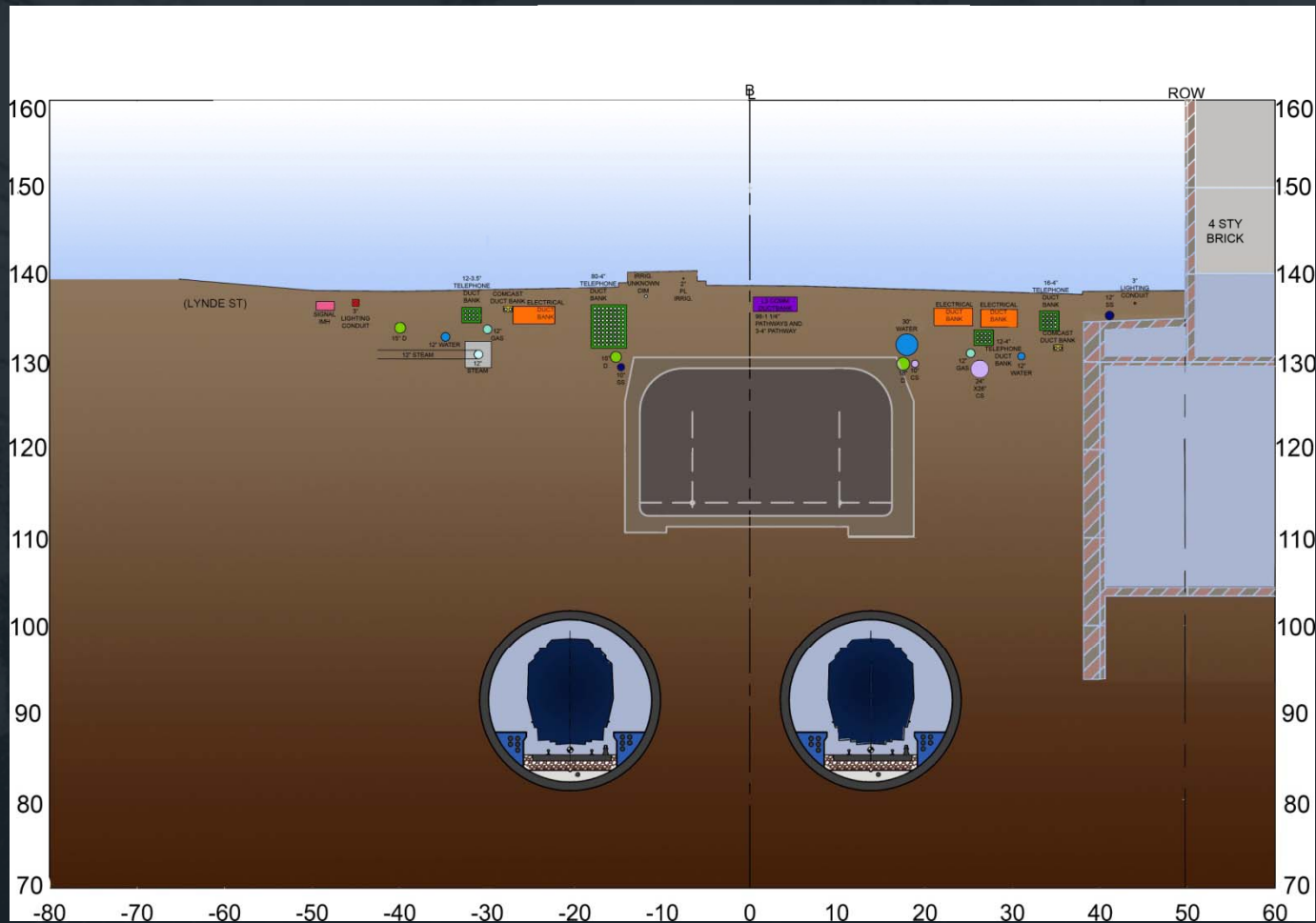
Alternative 1: Construction Phasing at Eliminated Bowdoin



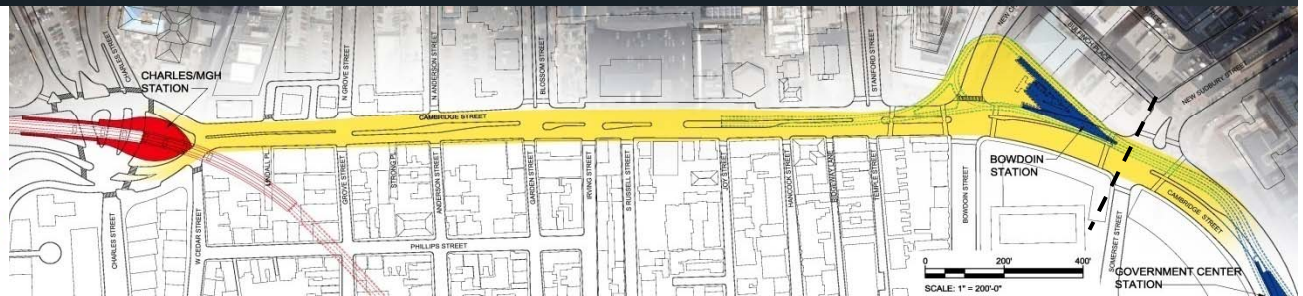
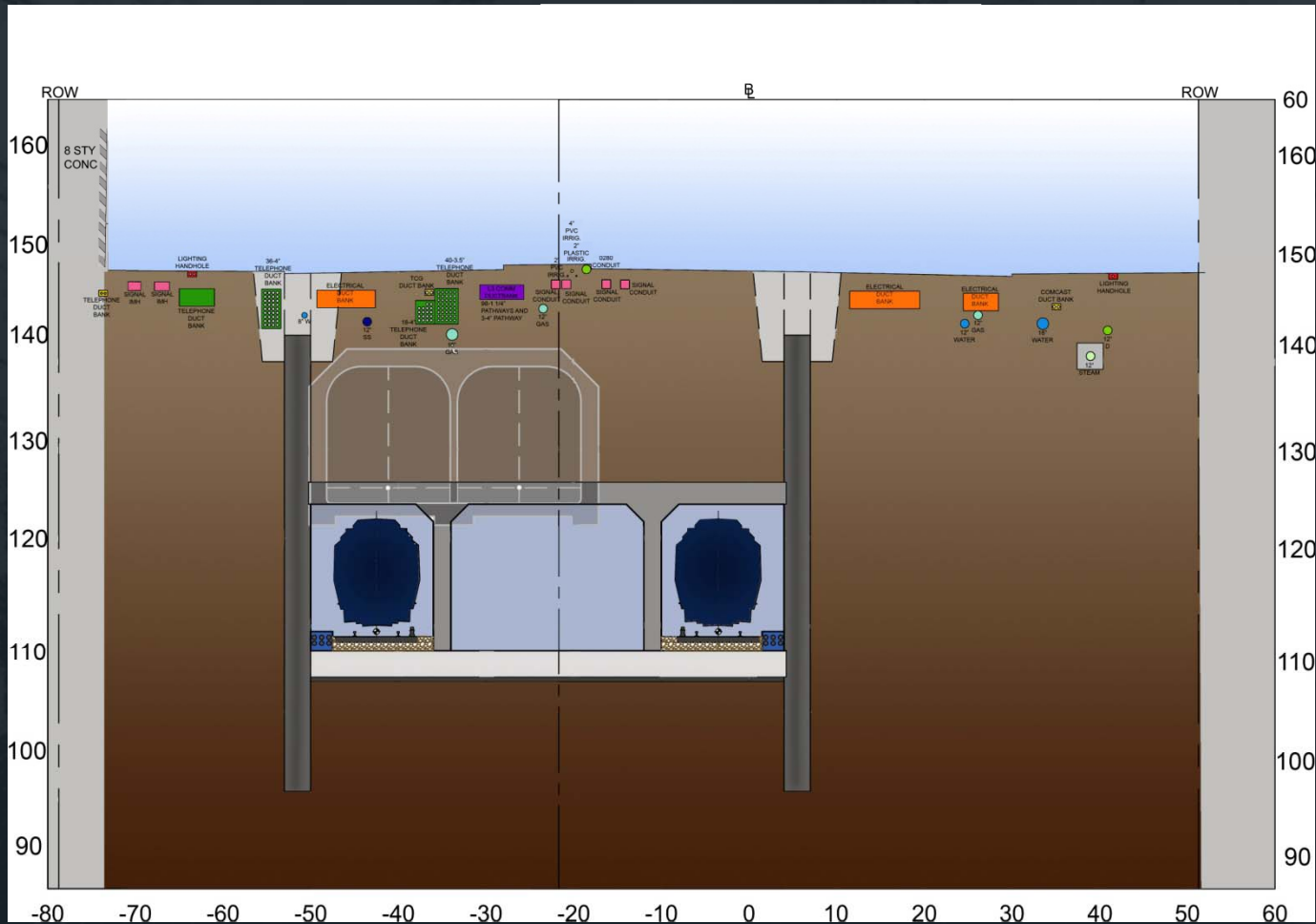
Alternative 2: Construction Phasing at Relocated Bowdoin



Alternative 1 & 2: Mined Tunnels Section

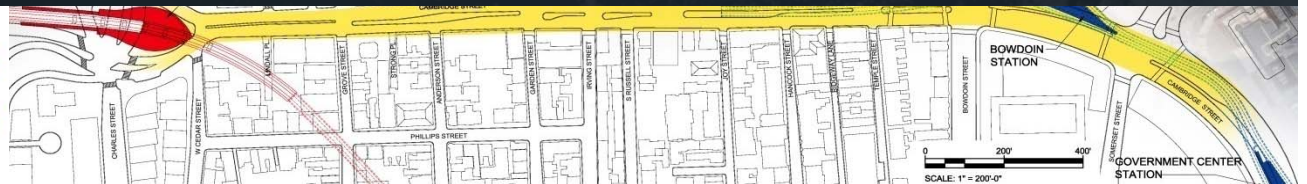


Alternatives 1 & 2: Cut and Cover Section



Public Comment

- Questions & Answers



Project Contact Information

Please contact public involvement representatives Nancy Farrell or Regan Checchio, 617-357-5772 (nfarrell@reginavilla.com; rhecchio@reginavilla.com). If you would like to arrange a briefing for your organization or neighborhood this fall.

EOT Project Team: Kate Fichter, 617-973-7342, Katherine.Fichter@eot.state.ma.us; Scott Hamwey, 617-973-7210, Scott.Hamwey@eot.state.ma.us

PROJECT WEBSITE – <http://www.mass.gov/eot/redblue>

Project background materials, minutes and presentations are posted on this site.

