

#### I-90 ALLSTON INTERCHANGE A MULTIMODAL TRANSPORTATION PROJECT PUBLIC INFORMATION MEETING JUNE 17, 2015 – JACKSON MANN COMMUNITY CENTER

## **Welcome & Introductions**

- Project Team
- Meeting Agenda













#### CROSBY | SCHLESSINGER | SMALLRIDGE LLC

## **Meeting Agenda**

- Welcome & Introductions
- Project Overview & Approach
- Preferred Concept
- Progress on Refining the Preferred Concept
  - Site Conditions & Constraints
  - Traffic Model Volumes & Operation Analysis/CTPS
  - West Station
- On-Going Public Outreach
- Discussion/Questions/Answers

## **Project Overview**

- This is an integrated, multimodal project of three components:
  - Highway interchange
  - Rail/transit
  - Local/regional place-making
- MassDOT will be staffing the project to reflect and integrate the different components.
- We plan to keep the three components together, but will separate as funding is identified.
- MassDOT will lead the transportation components, and will work with partners to develop the community place-making vision:
  - City of Boston
  - Local neighborhood
  - Harvard University and Boston University

#### **Project Approach**



#### Highway & Interchange

#### Thomas Tinlin Acting Highway Administrator

## Rail & Transit

Astrid Glynn Rail & Transit Administrator

#### Community Place-making

**David Mohler** Executive Director of Transportation Planning

**Unified Environmental Review** 

## Highway & Interchange

- Regional
- Local
- Community



## Rail & Transit Issues

- West Station
- Layover Facilities
- Operations



## **Community Place-making Issues**

- Urban Design
- Open Space
- Land-Use



Image from Beacon Yards | BSA Urban Design Workshop - September 16-18, 2014 | Northeastern University Graduate Research Studio - Fall 2014/Spring 2015

## **Infrastructure Funding Issues**

- Highway & Interchange
  - Presumed Funding Mechanism is Toll Revenue
  - Metropolitan Highway System Reserve Funds (must be reviewed to ensure availability)
- Rail & Transit/Community Place-making
  - Public Private Partnerships will be critical
  - Additional sources to be determined
  - Toll revenues can not be used
  - $-\,$  Need to update and refine cost estimates

## Meeting Agenda (cont.)

- Welcome & Introductions
- Project Overview & Approach
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## **Project Area**



#### **Determining the Preferred Alternative**



## **Shared Priorities**

- Improve safety for all modes: walking, cycling, driving, transit
  Realign I-90
- Context sensitive design or:
  - $\checkmark$  Lessen impact of interchange
  - $\checkmark$  Avoid inducing cut-through traffic with new configuration
  - $\checkmark$  Reconnect sections of Allston to each other and the River
- $\checkmark$  Protect the neighborhood during construction
- $\checkmark$  A more vibrant Cambridge Street that serves all modes
- $\checkmark$  Accessibility to transit at future West Station
- Work with City of Boston to prepare framework for new neighborhood

#### Urban Interchange Option 3J: Preferred Concept for ENF

- Alternative Identified for further Analysis in EA/EIR.
- 3 Variants of 3J are being Evaluated
  - 3J-1 (Cambridge St. Two-way )
  - 3J-2 (Cambridge St., Cambridge St. South: One-Way Pair)
  - 3J-3 (Cambridge St., Cambridge St. South: Two-Way Pair)
- Alternative still subject to modifications/refinements
- Design details will be developed with Public Input

## Urban Interchange Option 3J: Major Common Features

- Realign Turnpike/ Replace Viaduct
- Dedicated pedestrian/ bicycle infrastructure
- Incorporate West Station and rail yard improvements

- Provide N-S pedestrian/bicycle connections
- Redesign Cambridge St as "Complete Street"
- Realign SFR to increase open space along the Charles River



#### **Urban Interchange Option 3J-1**



#### Urban Interchange Option 3J-2



#### **Urban Interchange Option 3J-3**



#### **Preliminary 3D Renderings – Concept 3J-3** View Looking Northeast



#### **Preliminary 3D Renderings – Concept 3J-3** View of East Drive Connector Looking South



#### **Preliminary 3D Renderings – Concept 3J-3** View of Seattle Street Connector Looking South



#### **Preliminary 3D Renderings – Concept 3J-3** View of Cambridge Street Looking Southwest



## **MEPA Scope**

- Issued December 24, 2014
- Dozens of comment letters/emails; hundreds of individual comments
- Major comment categories:
  - Alternatives Analysis
  - Open Space/Future Development
  - Bicycle and Pedestrian Accommodations/Multi-Modal
  - Traffic, Transportation, Transit
  - Air Quality/Greenhouse Gas Emission/Climate Change
  - Stormwater
  - Historic Resources/Parkland

# MEPA Scope (cont.)

- Alternatives Analysis:
  - I-90 Viaduct and Soldiers Field Road
  - I-90 Interchange
  - West Station, Layover Yard and Maintenance Facilities
  - Bicycle and Pedestrian Accommodations
- Traffic and Transit Analysis:
  - Future Traffic and Transit Operations
  - Mitigate Impacts to Residential Areas
  - Evaluate Access to Packard's Corner
  - $-\,$  Air Quality and Greenhouse Gas
  - Noise
- Accommodate Future Land Development
- Construction Staging and Impacts

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## Site Conditions & Constraints

- Geotechnical Investigations
- Soil Conditions
- Utility Coordination
- Stormwater Management

- Topographic Survey
- ROW Investigations
- Pipe Infrastructure Conditional Survey



## **Traffic Analysis Update**

- Analysis for the ENF
- On-Going refined analysis with CTPS volumes

## 2035 AM Peak Hour I-90 Ramp Volume Comparison



## 2035 PM Peak Hour I-90 Ramp Volume Comparison



#### 2035 AM Traffic Operations – Preliminary Volumes



#### 2035 AM Traffic Operations – CTPS Volumes



#### 2035 PM Traffic Operations – Preliminary Volumes



#### 2035 PM Traffic Operations – CTPS Volumes



## AM Ramp Volumes: 2015 Existing vs. 2035 Build



## PM Ramp Volumes: 2015 Existing vs. 2035 Build



## **Additional Analyses Required by MEPA**

- Switching East Drive and Stadium Way connections to I-90 ramp system
- Vehicular connection to Comm. Ave
- 2020 Opening year analysis

## **Beacon Park Yards and West Station**

- Analysis of I-90 RR components began Oct. 2014
- Consists of
  - Beacon Park Yards
  - West Station
- Beacon Park Yards design follows SSX DEIR
  - Layover Tracks
  - Running Repairs
  - Crew Quarters
- West Station
  - Evolved from Public Process/Neighborhood input
  - Accommodates multimodal use and considers expanded rail service

## **Railyard Overview**

- Beacon Park Yards
  - Layover Tracks for 14-18, 9-Car Consists
  - Sheltered Pit Track
  - Wheel Truing
  - Car Wash/Deicing Facility
  - Crew Quarters
  - Substation
- Do Not Preclude Future Restoration of Grand Junction
- Maintain Houghton Chemical/Freight Activities

#### **Rail & Transit Elements**



#### **Beacon Park Yard Elements**



## **Tracks Below Viaduct**



## West Station Elements

- 2 Platforms/3-4 Revenue Service Tracks
  - So. Station Service via Framingham/Worcester Branch
  - Future Urban Rail Service
- Bicycle/Pedestrian Access South/Comm Ave to North/PDW Path
  - Accessible at all times and not limited to MBTA operational hours
- Bus Loop Access to Station serving
  - MBTA Bus
  - Intercity Bus, Logan Express
  - Taxi/Shuttle
  - K & R
- No Parking Facilities

#### **Transit Proximity**



#### **Boston Landing/West Station Capture Comparison**



#### **Pedestrian/Bicycle Path Preliminary Study**



#### **Pedestrian/Bicycle Path Detailed Study**



#### **Malvern St Station Access Point**



#### **Babcock St Station Access Point**



#### Stair & Elevator at Babcock St.



#### **Agganis Way Station Access Point**



**RAMP SYSTEM** 

#### **One-Way/Three Level Station**



## **One-Way/Two Level Station**



## Two-Way/Two Level Station



#### **Two Level Station Section**



TWO LEVEL STATION / PLATFORM OPTION

#### **One-Way/Three Level Station Section**



THREE LEVEL STATION / PLATFORM OPTION

## I-90 Noise Study Outline

- Five (5) Noise Study areas
- Considers both Highway and Railroad Sources
- Study Locations Represent Receptor Locations within 500 ft
  - Includes Two (2) I-90 Type 2 Locations
  - Cambridge Study Location added in Response to ENF Comment
- Considers mobile noise sources (tire, engine, and exhaust stack)
  - Positive finding results in barriers slightly higher than the noise source

### **Noise Impact Study Locations**



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## **On-Going Public Outreach**

- There are two parts to the public process:
  - Task Force (meetings open to the general public)
    - Break into groups to focus on the different project components?
  - General civic engagement for broad-based outreach
  - We will be asking for written feedback on how best to shape the two processes
- MassDOT and the MBTA have other processes underway that are relevant to the work being done here:
  - The Program for Mass Transportation
  - 5-year Capital Investment Plans
  - MBTA Service Planning

## **On-Going Public Outreach** (cont.)

- Regular Website Updates
  - just Google: I-90 Allston Interchange
- Quarterly Public Information Meetings
- Revive Task Force
  - Task force members to be contacted
  - Need to ensure sufficient discussion:
    - Highway & Interchange
    - Rail & Transit
    - Community Place-making

## **Potential Task Force Meeting Topics**

- Multi-Modal Traffic Operations
- Urban Design Analysis
- Street Network Configuration
- West Station and Rail Operations
- Pedestrian/Bicycle Network
- Viaduct Configuration
- Soldiers Field Road Relocation
- Environmental Analysis
- Construction Staging

## **Preliminary Project Timeline**

	2014	2015	2016	2017	2018	2019	2020	2021
	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Concept Development								
Task Force Group								
Environmental/ Permit Filings								
Preliminary Design								
Procurement		WE ARE						
Anticipated Construction		HERE						

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#### **Question & Comments**

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