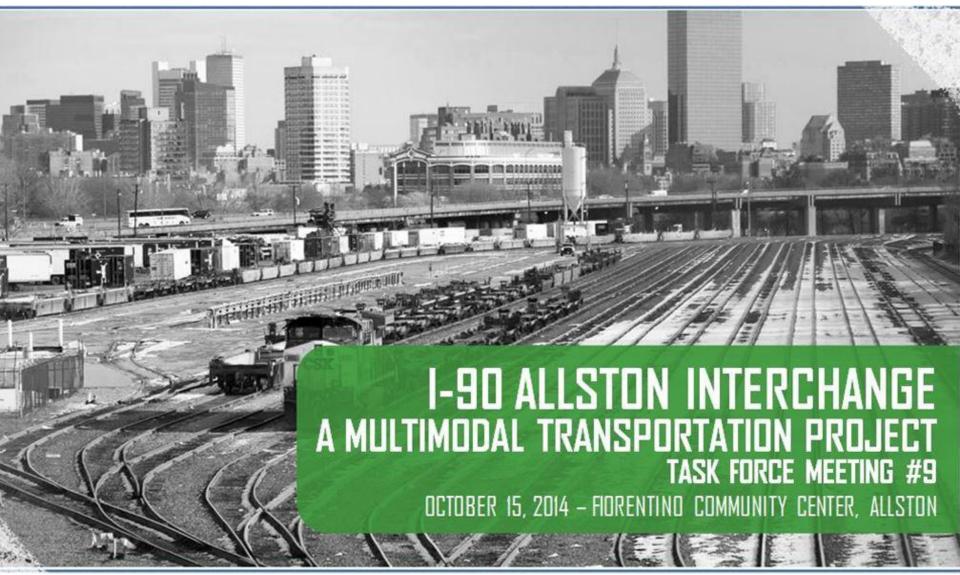
### I-90 Allston Interchange A multimodal transportation project

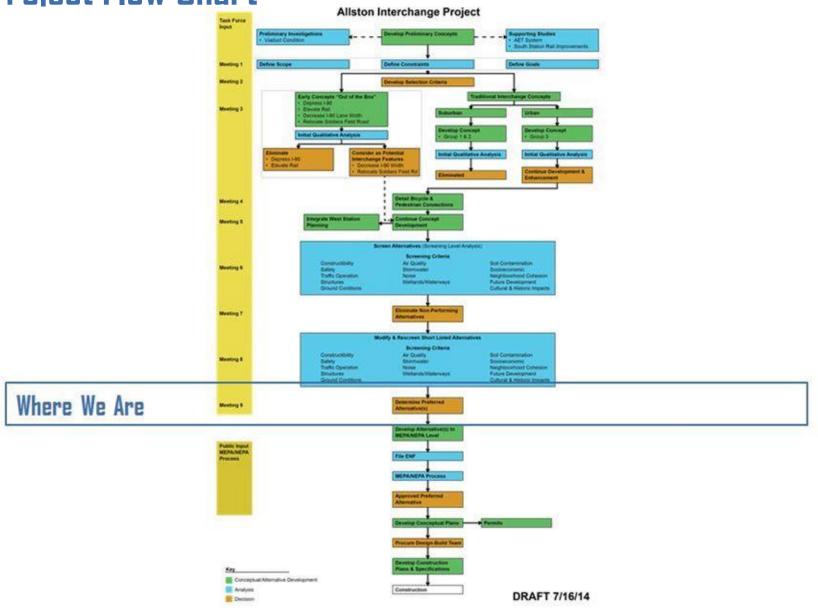




### **Task Force Administration**

- Minutes
- Project Flow Chart/Task Force Influences
- Update on Meetings with Government Entities and Stakeholders

**Project Flow Chart** 



### Task Force Influences on Concept Development

- Overall emphasis on neighborhood cohesion
- Advancement of urban interchange concepts
- Integration and location of West Station into the project
- Incorporation of a shared use path providing a route from North Allston to the Charles River
- Inclusion of bicycle and pedestrian connections throughout the project including connections to the Charles River waterfront, Cambridge, West Station and the Boston University area
- Flexibility for future land use development opportunities

### Task Force Influences on Concept Development (cont.)

- Importance of a traffic design which discourages cut-through traffic on residential streets
- Defining the scale of Cambridge Street and including sidewalks, cycle tracks, and on-street parking to create an urban streetscape.
- Focus on reducing the impact of the interchange roadways on the surrounding neighborhood.

### I-90 Allston Interchange Improvement Project

Rail Program Development

### What is in the Rail Program?

- West Station
- Layover/Maintenance Facility
- Other factors

All components to be identified in ENF, but with minimal design advancement.

### West Station - Key Questions

- What is it similar to?
- What does it look like?
- How is it accessed?

### West Station - What is it similar to?

- Tracks below passenger access
  - Orange Line Southwest Corridor (Mass Ave and south)
  - JFK/UMass
- Multiple platforms to access
  - Ruggles
  - JFK/UMass
  - Yawkey
- Station site serves as local connector
  - Ruggles
  - Airport Station
  - JFK/UMass, North Quincy, Wollaston, Quincy Center

### West Station - Similar stations lessons learned

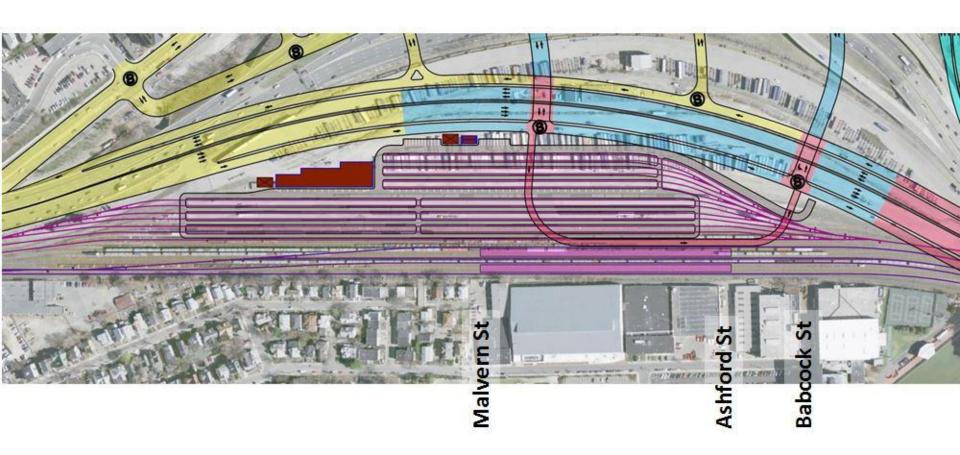
- Simplify layout and modal connections
- Minimize connection distances
- Distinct track uses, or prominent passenger information
- Local connection made without direct station access
- Sensitive to local context and non-transit connections

### West Station – What does it look like?

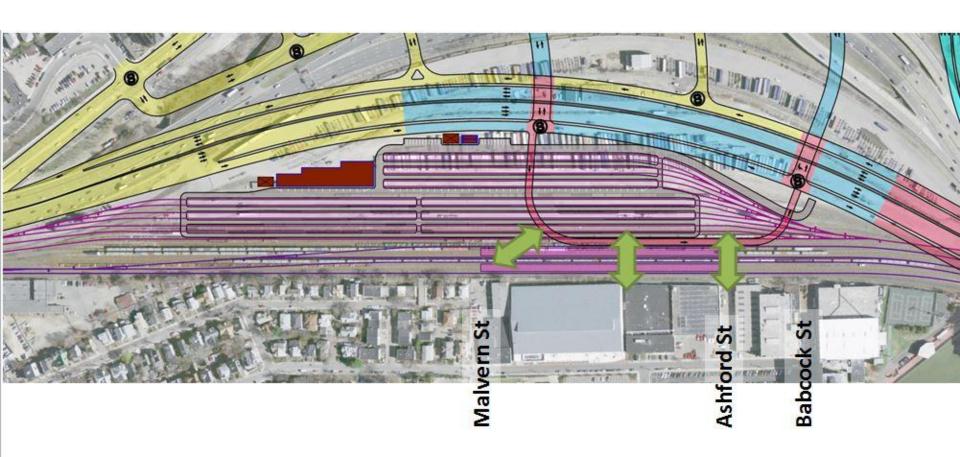
Multiple levels, multiple tracks, local connection



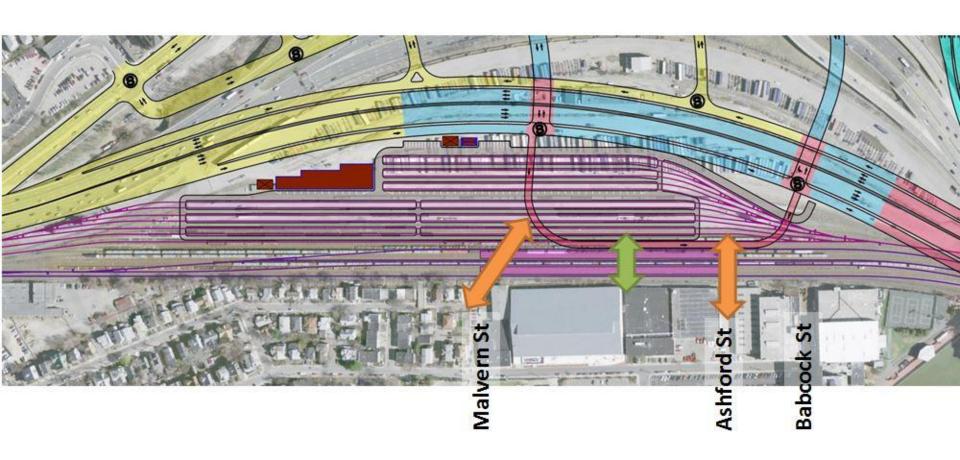
- Connections from loop road (elevated, but level)
- Connections from south side roadways (vertical circulation)
- Connection to shared-use path



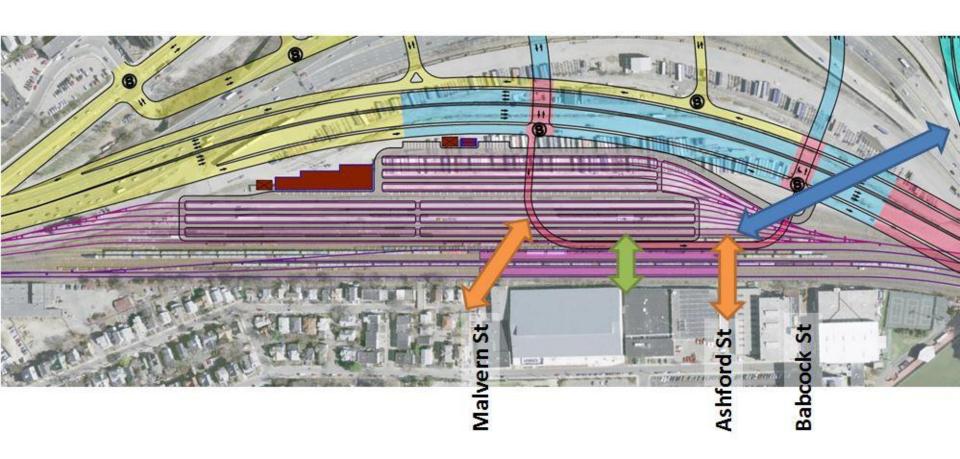
- Connections from loop road (elevated, but level)
- Connections from south side roadways (vertical circulation)
- Connection to shared-use path

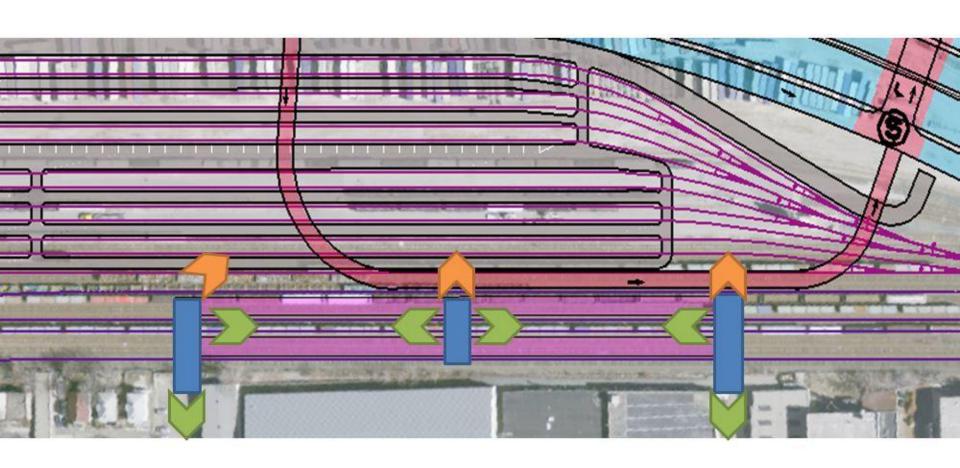


- Connections from loop road (elevated, but level)
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- Connection to shared-use path



- Connections from loop road (elevated, but level)
- Connections from south side roadways (vertical circulation)
- Connection to shared-use path





### Layover/Maintenance Facility - part 1

- Rail vehicle storage
  - Space for 14-20 consists (eight coaches & one locomotive)
  - Infrastructure required: layover tracks, crew quarters, parking



### Layover/Maintenance Facility - part 2

### Inspection activities

- Required by law over certain durations
- Multiple locations allows for improved performance
- Infrastructure required: pit track

#### Service activities

- Multiple locations allows for improved performance
- Sample activities: cleaning (interior & exterior), component swap, wheel alignment
- Infrastructure required: storage shed, car wash & wheel truing enclosures

#### Other factors

- Maintain rail connection to Houghton Chemical
- Design for multiple tracks to Cambridge
- Allow for future service plans, future development
- Protect abutting homes
  - Noise walls (Pratt & Wadsworth Sts)
  - Ballast mats
  - Indirect lighting
  - Station abutting non-residential uses

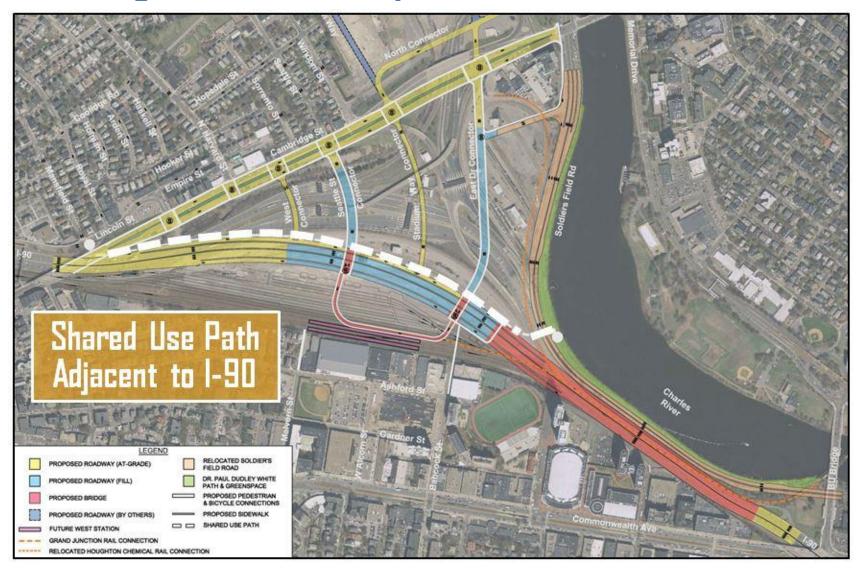
## Urban Interchange Option 3J: Preferred Concept for ENF

- Alternative Identified for further Analysis in EA/EIR.
  - Traffic Analysis completed with data from CTPS modeling
- 3 Variants of 3J will be 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 developed with Public Input

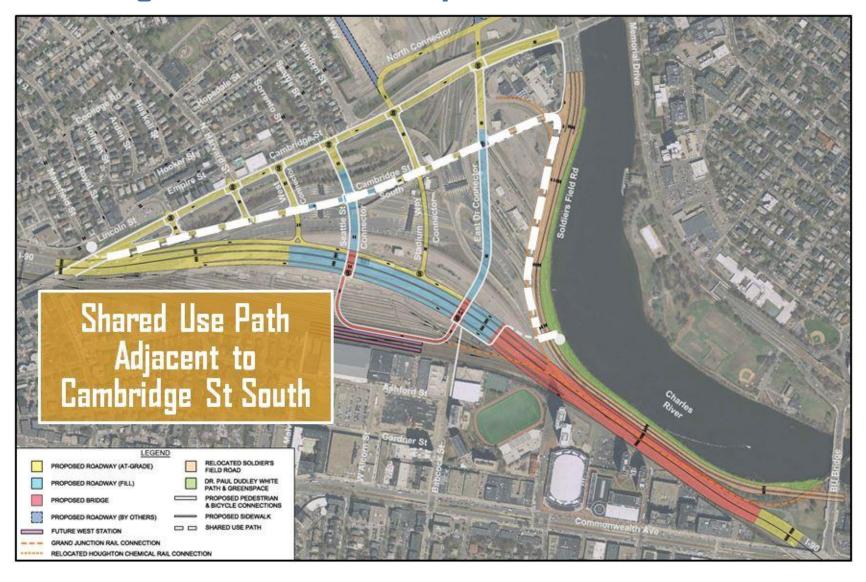
### Urban Interchange Option 3J: Common Key Design Features

- Re-alignment of Soldiers Field Road increased open space
- New direct connection to S.F. Rd. from EB off-ramp
- New parallel roadway north of Cambridge Street
- Grade separation of EB and WB ramps
- 4 Connection points between ramps & Cambridge Street
- Minimum of 2 route choices to/from EB & WB ramps
- Shared Use Path (Multi-Treadway)

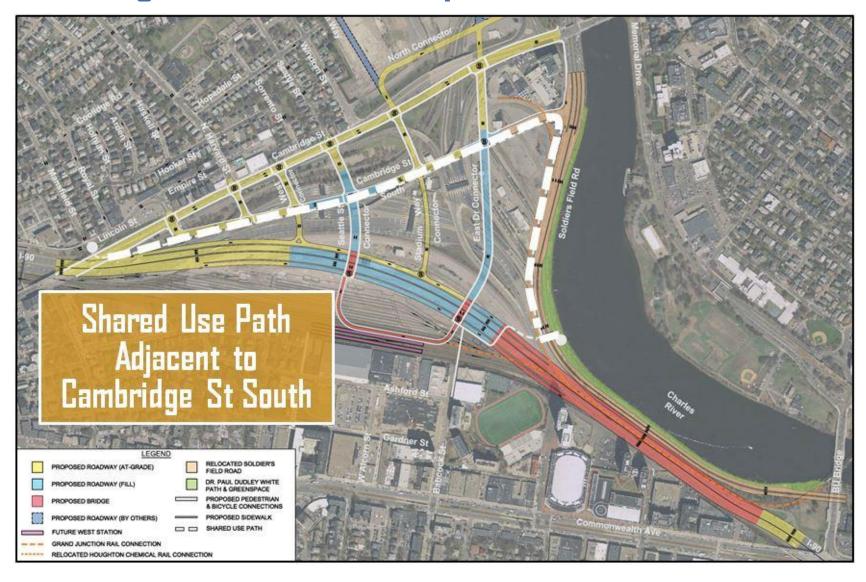
## Urban Interchange Option 3J-1 Cambridge Street Two-Way



### Urban Interchange Option 3J-2 Cambridge St. South: One-Way Pair



### Urban Interchange Option 3J-3 Cambridge St. South: Two-Way Pair



### Elements That Will Be Further Detailed As Project Advances into Design Phase

- Shared use path location, width, features, etc.
- Replacement of pedestrian bridge over I-90
- Sidewalk and cycle treatment along Cambridge St & other facilities
- Travel lanes/intersection layout for Cambridge Street
- Other roadways; Stadium, East, parallel road north and south
- Location of pedestrian bridge over SFR
- Extent of relocation of SFR
- Allocation of open space within area of relocated SFR
- State Highway "No Access" limits on connecting roadways

## Elements That Will Be Further Detailed As Project Advances into Design Phase (cont.)

- West Station including connections to the north and south
- Rail yard configuration and operations
- Viaduct configuration
- Approach streets to West Station
- Incorporate CTPS regional traffic study
- Noise and air quality analysis
- Feasibility of two track line over Grand Junction
- Stormwater treatment
- Construction staging concepts

## Urban Interchange Evaluation Matrix – part 1

	GROUP 3 URBAN TYPE									
	OPTION 3A	OPTION 38	OPTION SC	OPTION 30	OPTION 3E	OPTION SF	OPTION 36	OPTION 38	OPTION 31	OPTION 3.J
Traffic Operation	1		100				/			
Safety	•	0	0	0	0	0	0	0	0	0
Travel Time/LOS		0	0	0	0	0	0	0	0	0
Intersection Connectivity		0	0	0	0	0	0	0	0	0
Multi-Modal Connectivity										
Safety	0	0	0	0	0	0	0		0	0
Pedestrian Routes	0	0		0		0	0	0	0	0
Bicycle Routes	0	Ö		Ŏ	0	0			0	0
Bus/Rail Access	0	0	Ô	Ó	0	0	0	0	0	0
Streetscape	0	0	0	0	0	0	0	0	0	0
Environmental										
Drainage and Stormwater	0	0	0	0	0	0	0	0	0	0
Historic Impacts		0					0			0
Wetlands	Ŏ	Ŏ			O		Ŏ	0	0	
Noise	0	0	0	0	0	0	0	0	0	0
Parks/Open Space			0							
Contaminated Soils	0	0	0	0	0	0	0	0	0	0
Air Quality	0	0	0	0	0	0	0	0	0	0
Land Use							2			
Accommodate Future Development	0	8	0	0	0	8	0	0	8	0
Community Cohesian		٥	0	0	0	0	0	Ŏ	Ö	0
Construction										
Logistics			0		0		0		0	0
Construction Phase Impacts	Ō	Ō	Ŏ	Ō	O	Ō	O	Ŏ	0	0
Cost/Schedule					5,000					
Construction Cost	0	0	0		0	0	0	0	0	0
Construction Schedule	Ŏ	Ŏ	Ŏ	Ŏ	Ŏ	Ö	Õ	Ŏ	0	Ŏ
Maintenance/Life Cycle Cost	0	Ö	O	O	Ŏ	Ö	Ŏ	Ö	0	Ö
Meets Purpose & Need	0	0	0	0	0	0	0	0	0	0







## Urban Interchange Evaluation Matrix – part 2

	GROUP 3 - URBAN TYPE									
	DPTION 3A	OPTION 38	OPTION 3C	OPTION 30	OPTION 3E	OPTION 3F	OPTION 3S	OPTION 3H	OPTION 31	OPTION 3J
Traffic Operation	and the second									
Safety	0		•			0	0	0	0	0
Travel Time/LOS		0	0	0	0	0	0	0	0	0
ntersection Connectivity	0	0	0	0	0	0	0	0	0	0
Multi-Modal Connectivity										
Safety	0	0	0	0		0	0		0	0
Pedestrian Routes	0	0	Ō			0	0	Ö	0	0
Bicycle Routes	0	Ö	0	0	0	0	0		0	0
Bus/Rail Access	0	0	0	0	0	0	0	0	0	0
Land Use										
Accommodate Future Development	0	0	0	0	0	0	0		0	0
Community Cohesion	0	0	0	0	0	0	0	0	0	0
Cost/Schedule										
Construction Cost						0			0	
Construction Schedule		0		0	0		0			
Maintenance/Life Cycle Cost	0	0	0	O	0	0	0	0	0	0
Meets Purpose & Need	0	0	0	0	0	0	0	0	0	0







## Urban Interchange Evaluation Matrix – part 3

	GROUP 3 - Urban type							
	OPTION 3F	OPTION 3H	OPTION 31	OPTION 3J				
Traffic Operation								
Safety	0	0	•	0				
Travel Time/LOS	0	0	0	0				
Intersection Connectivity	0	0	0	0				
Multi-Modal Connectivity								
Safety	0		0	0				
Pedestrian Routes	0		0	0				
Bicycle Routes	•		•	0				
Bus/Rail Access	0	0	0	0				
Land Use								
Accommodate Future Development	0		0	0				
Community Cohesion	0	0	0	0				
Cost/Schedule								
Construction Cost								
Construction Schedule								
Maintenance/Life Cycle Cost	0	0	•	0				
Meets Purpose & Need	0		0	0				

Positive C

### **Alt 3J Meets Shared Priorities**

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

### Preliminary 3D Renderings - Concept 3J-3

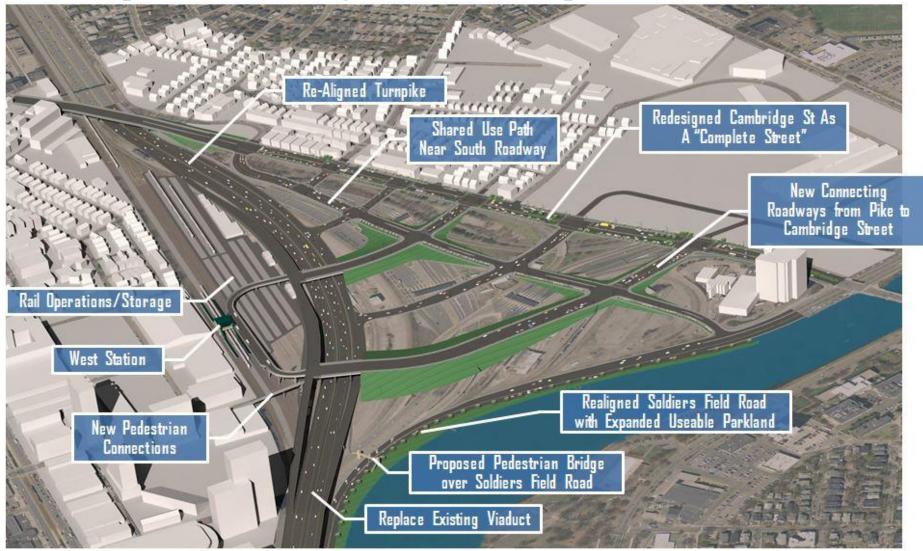
- Early stages of 3D model development
- Model is to scale and based on conceptual geometry
- Some elements more advanced, others still need to be incorporated
- Approach is to add detail as project design is advanced
- Goal is to provide a visual tool for the public

# **Preliminary 3D Renderings – Concept 3J-3**Existing Aerial



## Preliminary 3D Renderings - Concept 3J-3

Existing Aerial with Proposed Interchange



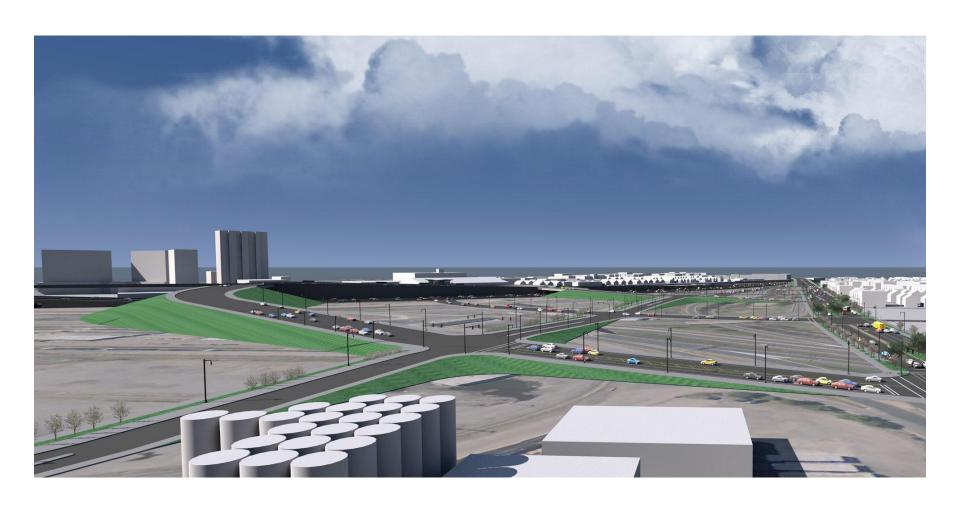
# Preliminary 3D Renderings – Concept 3J-3 Aerial with Proposed Interchange



# **Preliminary 3D Renderings – Concept 3J-3**Aerial with Proposed Interchange and Buildings



## Preliminary 3D Renderings - Concept 3J-3 View Looking Southwest - 1



### **Preliminary 3D Renderings - Concept 3J-3**View Looking West - 1



# **Preliminary 3D Renderings – Concept 3J-3**View Looking East - 1



## **Preliminary 3D Renderings – Concept 3J-3**View Looking West - 2



# **Preliminary 3D Renderings – Concept 3J-3**View Looking East - 2



## **Preliminary 3D Renderings – Concept 3J-3**View Looking Southwest - 2



### **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



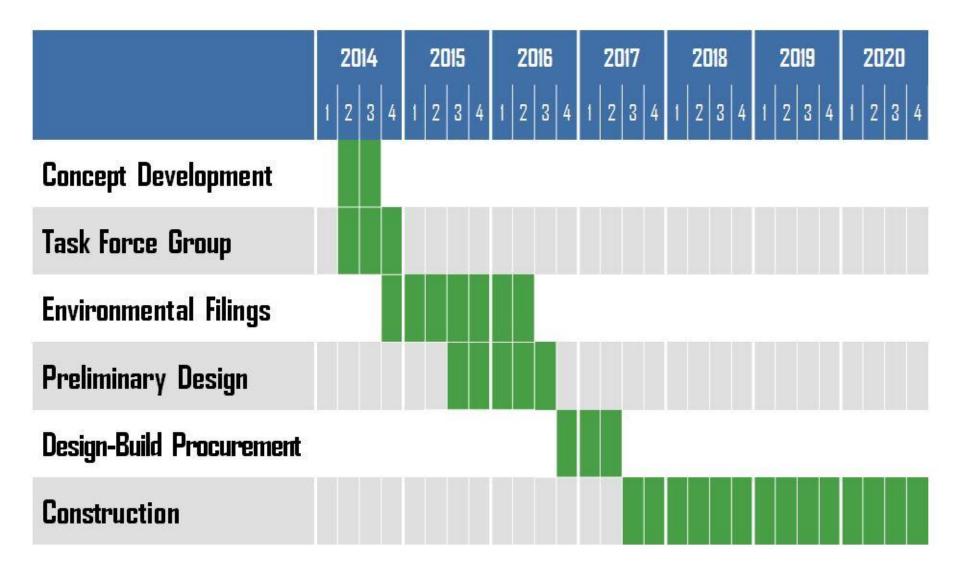
### Preliminary 3D Renderings – Concept 3J-3 View of Cambridge Street Looking Southwest



### **Project Next Steps**

- MEPA/NEPA Process and Schedule
- Design Process
- Quarterly Public Meetings
- Open Dialogue with the Project Team

### **Preliminary Project Timeline**



### MEPA/NEPA Process - part 1

Two Separate Processes to be Combined

#### First Steps:

- MEPA: Environmental Notification Form to be filed October 31;
   Mandatory EIR with ENF Certificate issued in December
- NEPA: Class of Action Determination complete

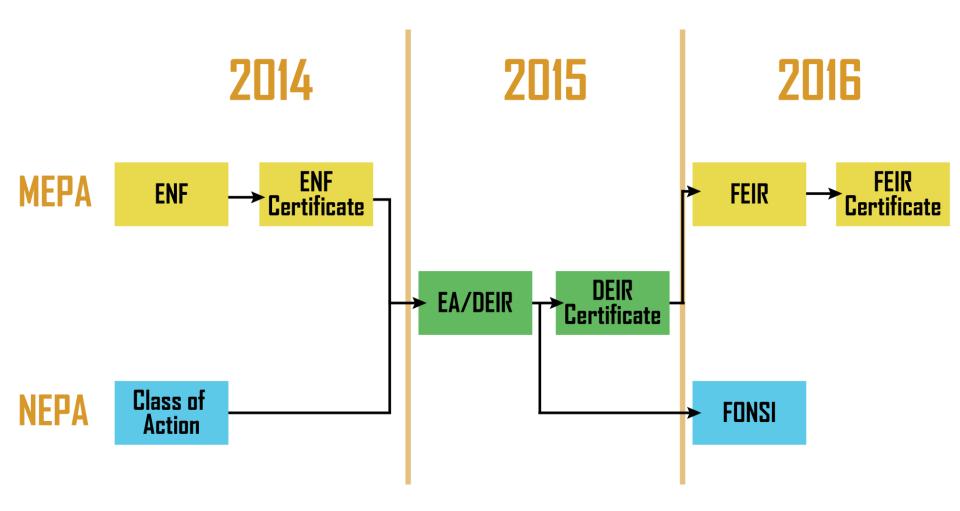
#### Next Step:

Combined EA/DEIR to be Prepared; Public Review and Comment

#### Future Steps:

- MEPA FEIR for Public Review and Comment
- NEPA Finding of No Significant Impact (FONSI) Issued by FHWA

#### MEPA/NEPA Process - part 2



#### Discussion

**Next Meeting:** 

November 5, 2014 – Fiorentino Community Center