

# **Open Planning Studio #3**

August 12, 2015



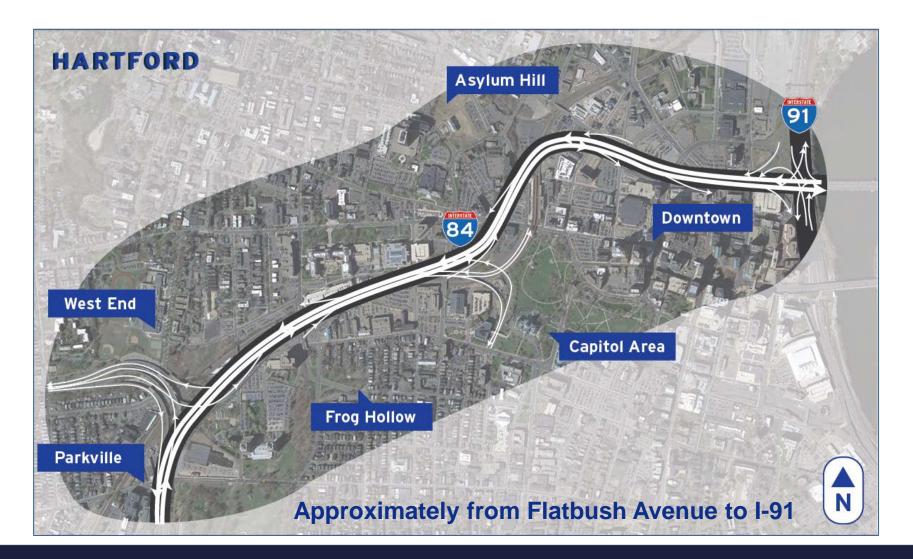
#### **Presentation Overview**

- Project introduction
- > Open Planning Studios
- Alternatives and screening process
- Preliminary traffic analysis
- Update on tunnel alternative
- Next steps





#### Where is the Project?

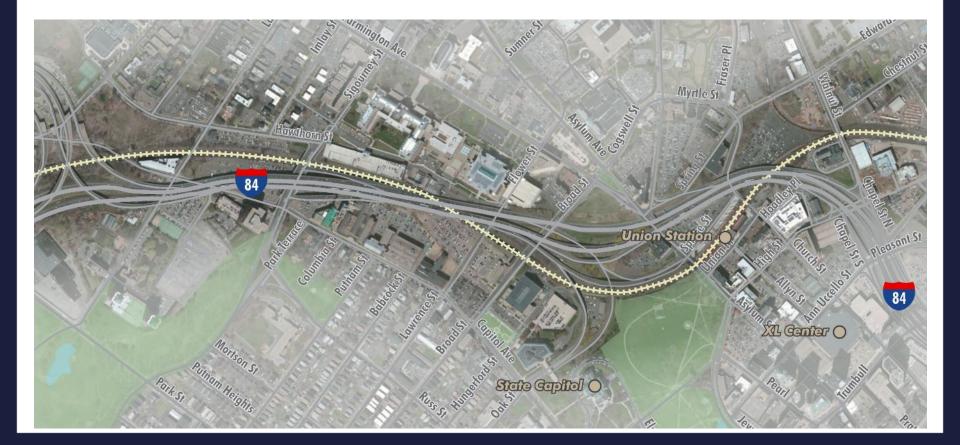




# 2010 HUB Study

#### Identify corridor options

Discuss I-84 and railroad interrelationship





#### **Purpose and Need Statement**

- Bridge deficienciesSafety and operations
- Enhance mobility



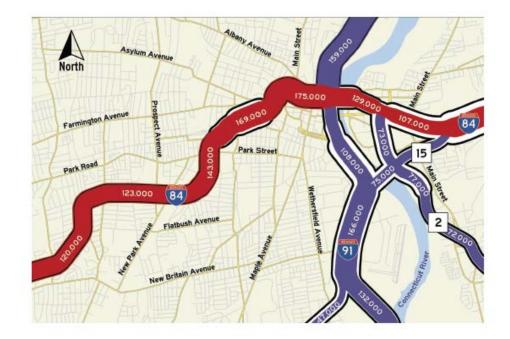
## **Bridge deficiencies**

- Bridges reaching end of lifespan
- > Cost of repairs = 60M since 2004
- An additional \$60M over next 5 years
- Bridges are safe; deterioration will continue



# **Safety and Operations**

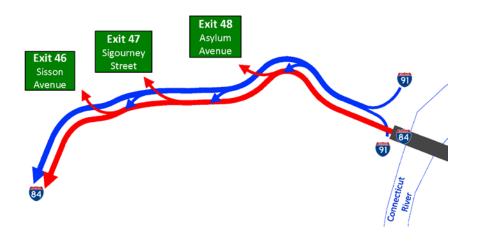
- >Highest daily traffic volume in Connecticut
- > 175,000 trips per day
- Eight full or partial interchanges





## **Safety and Operations**

- > Weaves
- ≻ Lane drops
- Sharp curves
- High crash rates result







#### **Enhance Mobility: Move People and Goods**

- Car and truck movement
- Transit integration
- Pedestrian and bicyclist accommodation
- Parking supply and management







#### **Enhance Mobility: A Balanced Approach**

- I-84 maximize safety and efficiency
- City streets designed and operated to enable safe and comfortable access for all users (Complete Streets)









## What are Open Planning Studios?

 Series of day-long, open house events
Scheduled in various locations through 2015
Public invited to attend
More info at i84hartford.com





# **Open Planning Studios Serve to...**

- > Aid in communicating project complexity
- Offer many engagement opportunities
- Allow direct interaction with / learning from the public
- Provide regular project updates







#### **Updates Are Provided With...**

Project data

➢ Plans

> Graphics

➤ 3-D digital models





#### **OPS #1: Christ Church Cathedral**

Six days in April/May 2015
400 - 500 attendees
Social media and press increased exposure
Positive input and suggestions







## **OPS #2: HPL: SAND/Ropkins Branch**

Project background information
New data on preliminary traffic analysis
Public comments on property impacts



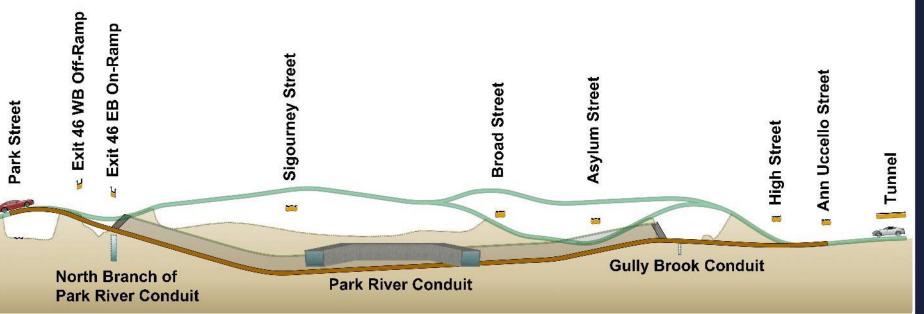




# **Mainline Alternatives**

- Alternative 1: No-Build
- Alternative 2 (elevated)
- Alternative 3 (lowered)
- > Alternative 4 (tunnel)

Green Blue Yellow Brown



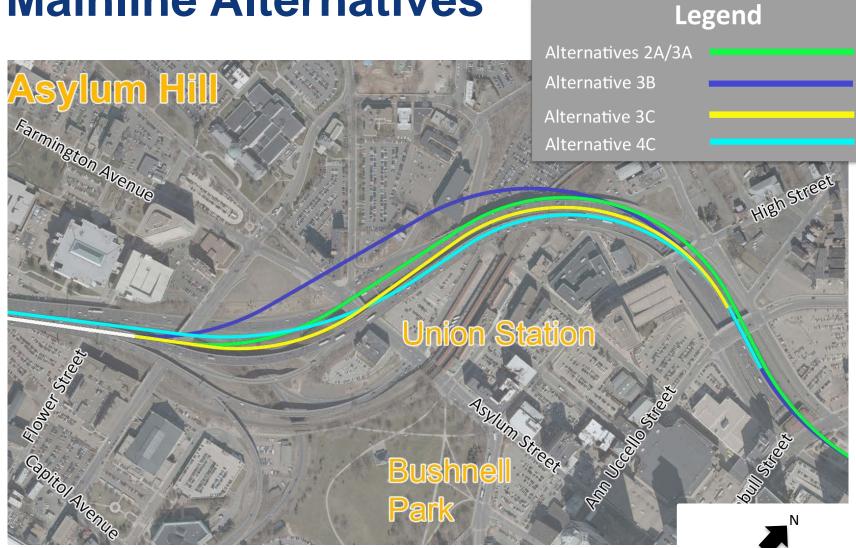
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## **Mainline Alternatives**



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#### **Mainline Alternatives**



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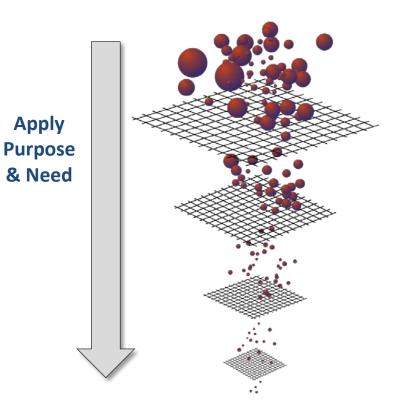
#### **Interchange Options**

_	Alternative	Options west of Sigourney	Options east of Sigourney	
	2A (elevated)	9	3	
	3A, 3B, 3C (lowe	red) 9	12	
	4 (tunnel)	1	1	
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and the second s	West of Sigourney	A Chan	East of Sigourney	2713
		Contract of		



#### Where Are We Now?

#### **100+ Alternatives Combinations**



#### **Preferred Alternative**













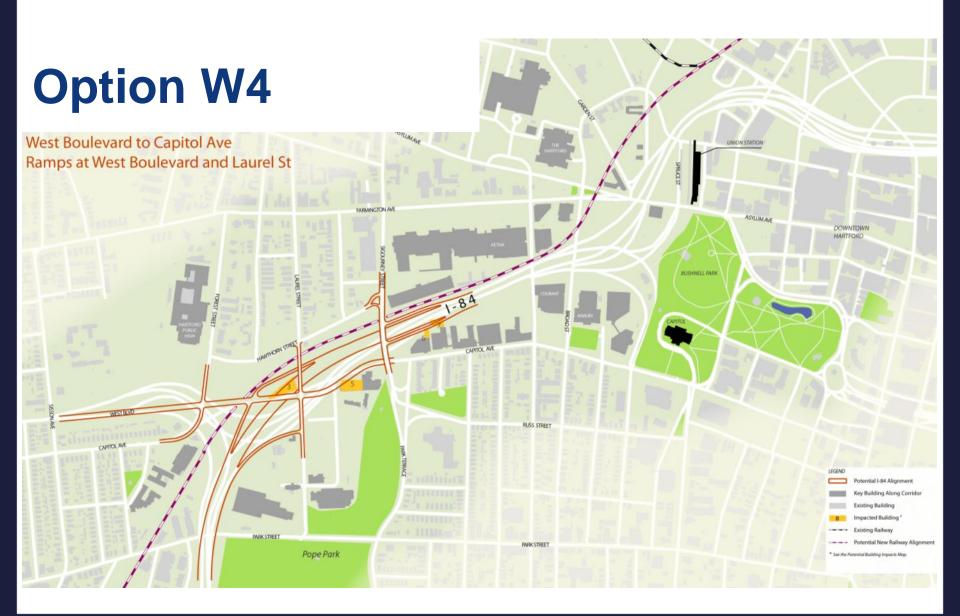


Partial Interchange (EB Off-Ramp to Laurel, WB Directional Split Diamond at Capitol) No EB On-Ramp, West Blvd to Hawthorn Connection

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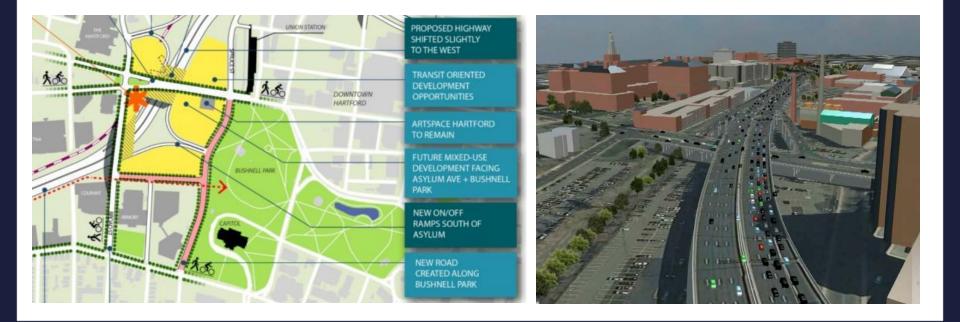






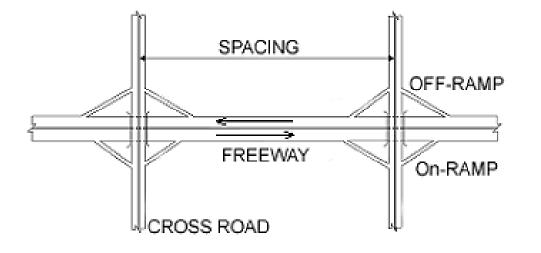
#### **Process Overview**

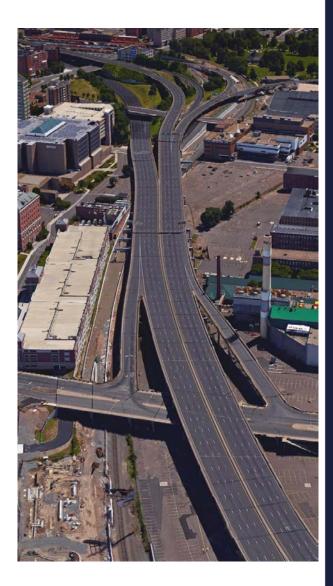
- Perform I-84 mainline analysis
- Analyze local road intersections



# **Mainline Analysis**

- Interchange spacing
- Lane balance and continuity
- Weave distances

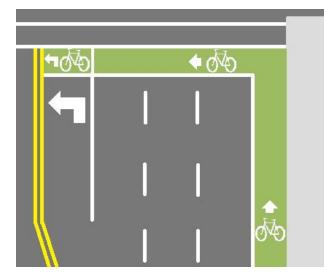






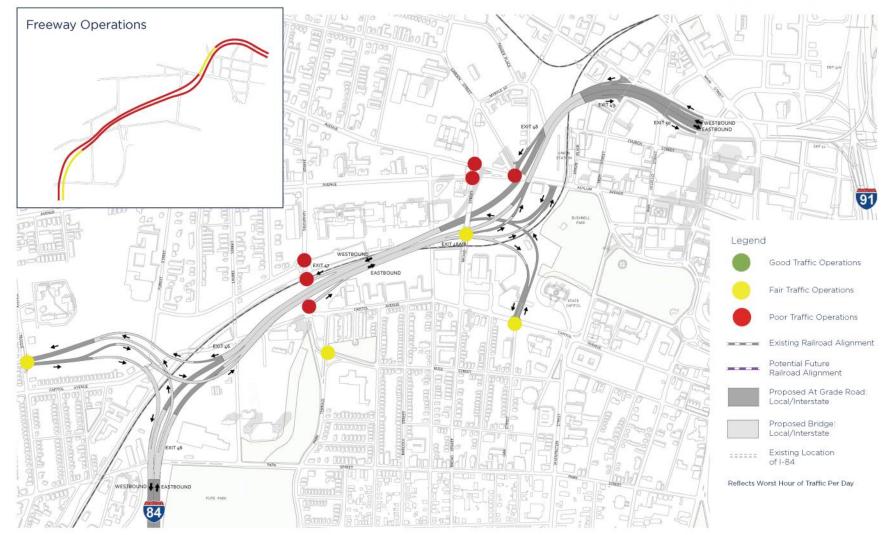
# **Preliminary Intersection Analysis**

- Minimize roadway widths
- Optimize signal operations
- Pedestrian / bicyclist-friendly
- Good / fair / poor

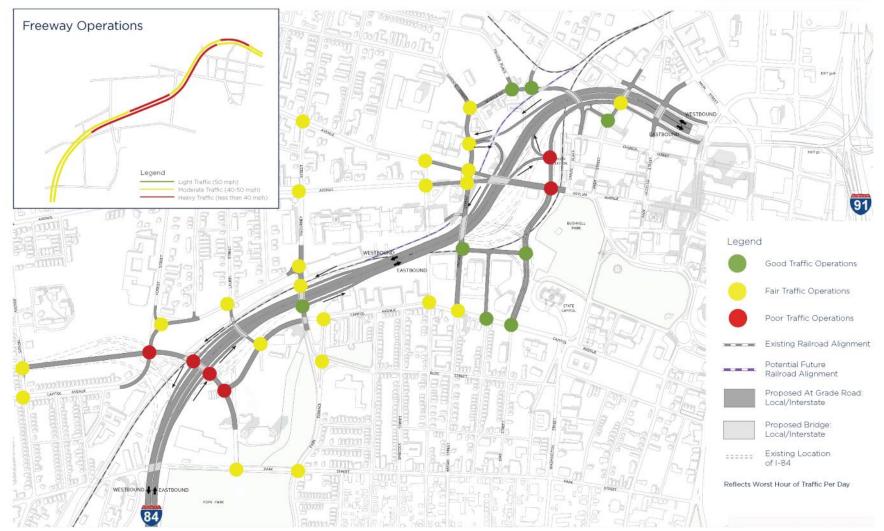




### **EXISTING** CONDITIONS



### ALTERNATIVE 3B: W1/E4 (S)

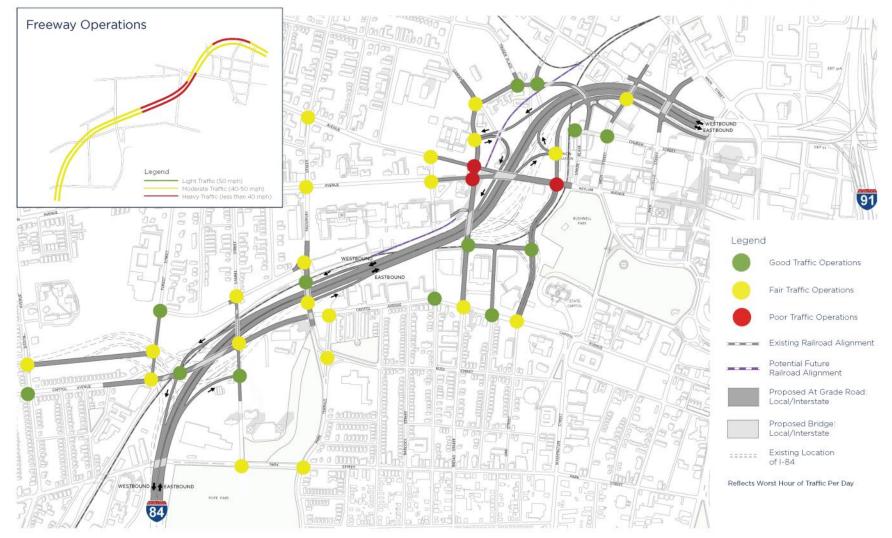




### I-84 HARTFORD PROJECT PRELIMINARY TRAFFIC ANALYSIS

### ALTERNATIVE 3B: W3-1/E4 (S)

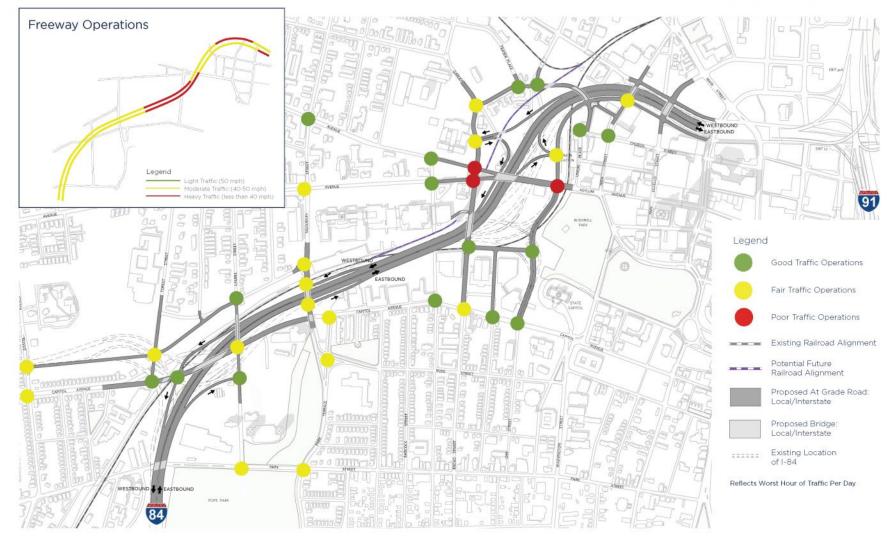
#### Intersection Operations



Tran Systems Connecticut Department of Transportation

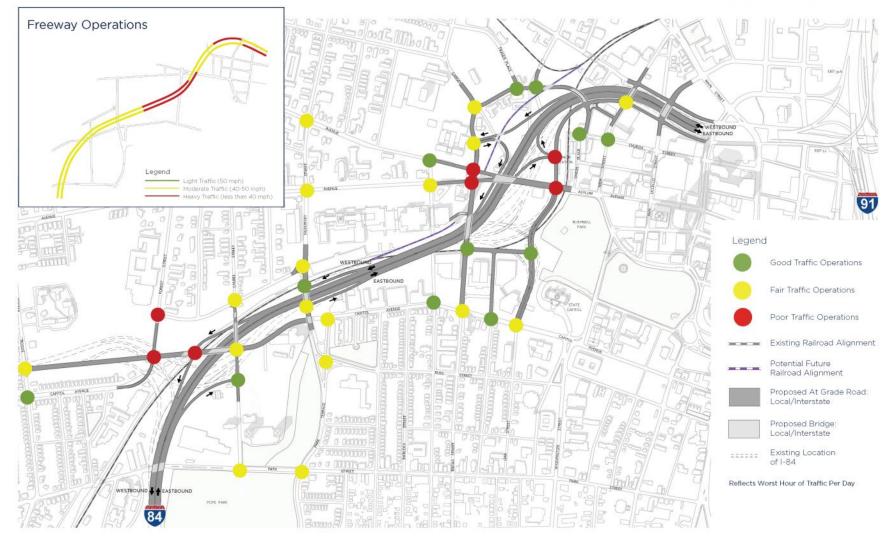
### ALTERNATIVE 3B: W3-2/E4 (S)

#### Intersection Operations



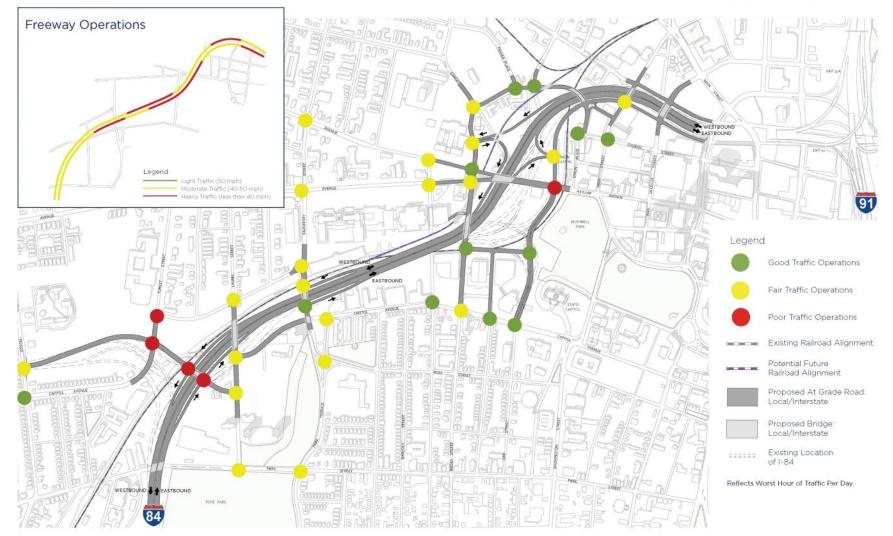
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#### ALTERNATIVE 3B: W4/E4 (S)





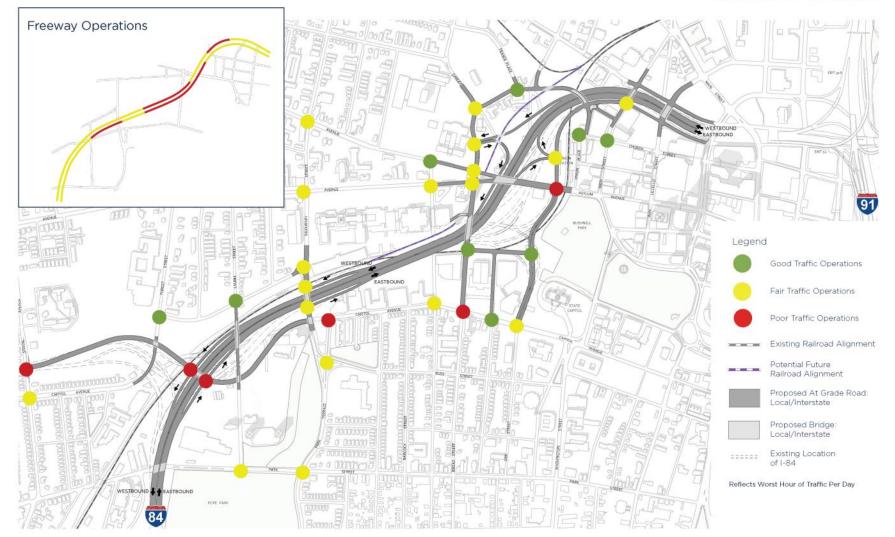
#### ALTERNATIVE 3B: W5/E4 (S)





### I-84 HARTFORD PROJECT **PRELIMINARY** TRAFFIC ANALYSIS

### ALTERNATIVE 3B: W6-1/E4 (S)



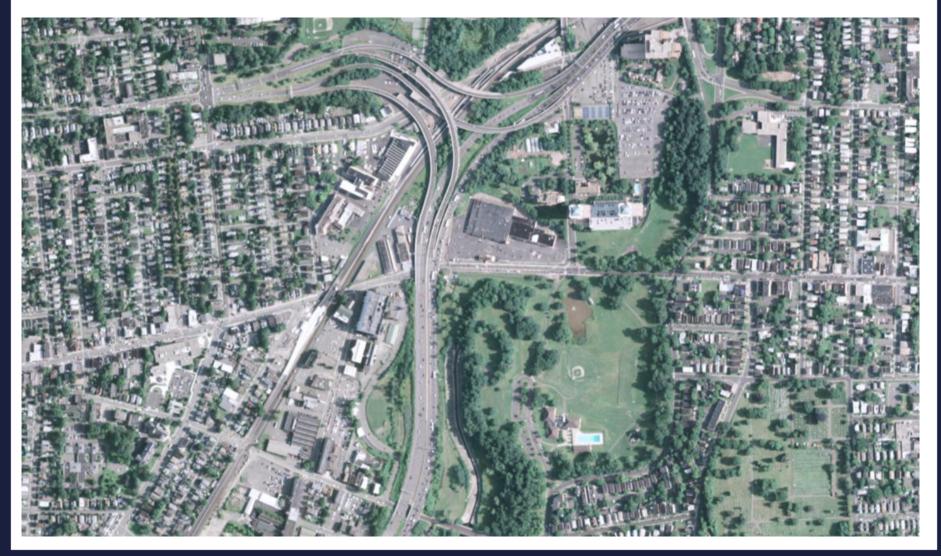
#### ALTERNATIVE 3B: W6-2/E4 (S)







# **Park Street Interchange**



### **Sisson Ramps** Existing aerial view looking north



### **Sisson Ramps** Potential aerial view looking north





# **Potential Developable Area**

- ➢ West of Sigourney Street: 10 − 24 acres +/-
- East of Sigourney Street: 5 20 acres +/-



## **Capitol Avenue**

### Existing view looking east towards Sigourney Street



# **Capitol Avenue**

### Potential view looking east towards Sigourney Street





## **Asylum Avenue**

### Existing view looking east towards Downtown





## **Asylum Avenue**

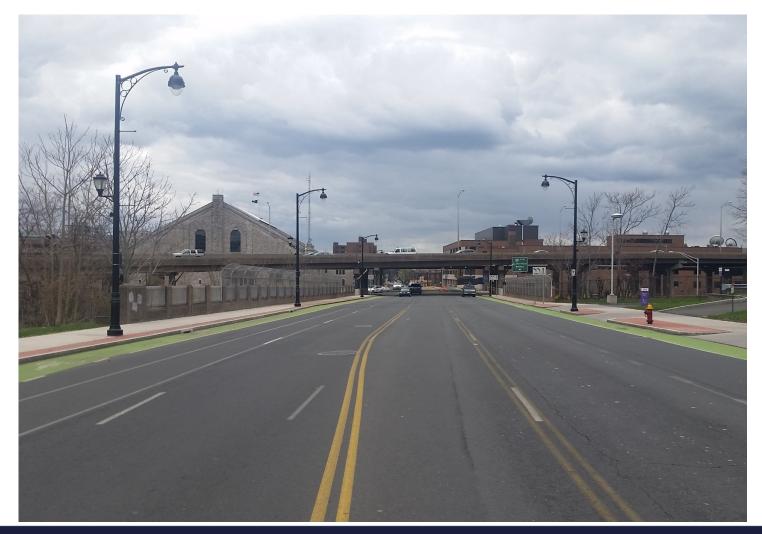
### Potential view looking east towards Downtown





## **Broad Street**

### Existing view looking south towards Armory





# **Broad Street**

Existing view looking south towards Armory





## Sigourney Street

### Existing view looking south to Park Terrace





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### Sigourney Street Potential view looking south to Park Terrace

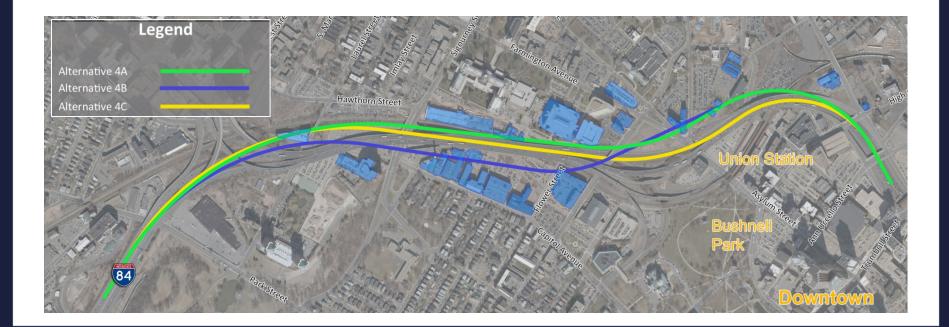






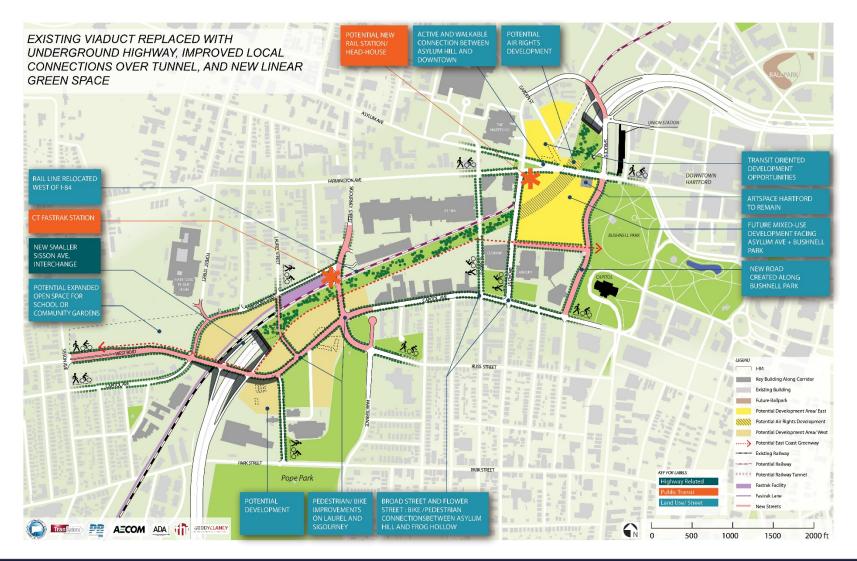
# **Three Tunnel Alignments Considered**

- A and 4B have significant property impacts
- 4C alignment advanced
  - Build on existing footprint





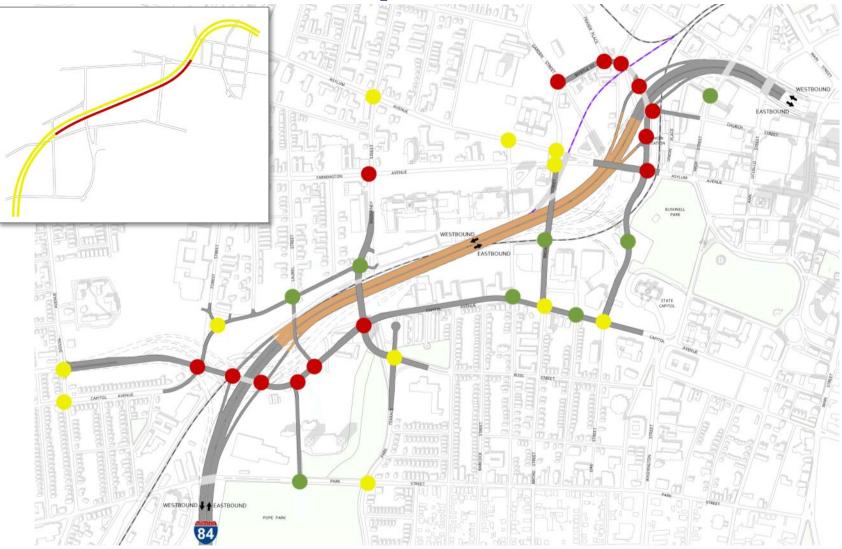
## Tunnel



I-84 HARTFORD PROJECT

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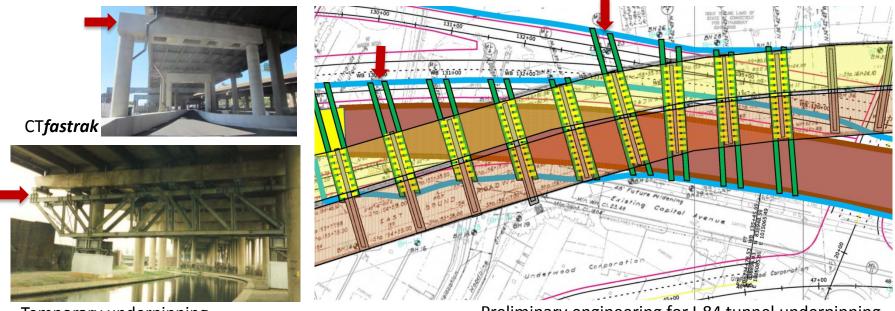
# **Tunnel Traffic Operations**





# **Underpinning Requirements**

- Temporarily support existing bridges
- Allows construction underneath
- Maintains traffic during construction



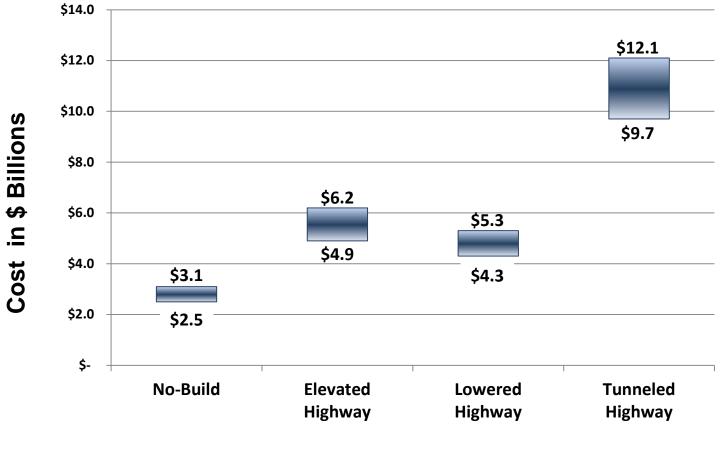
Temporary underpinning

Preliminary engineering for I-84 tunnel underpinning





# **Cost Estimates: August 2015**

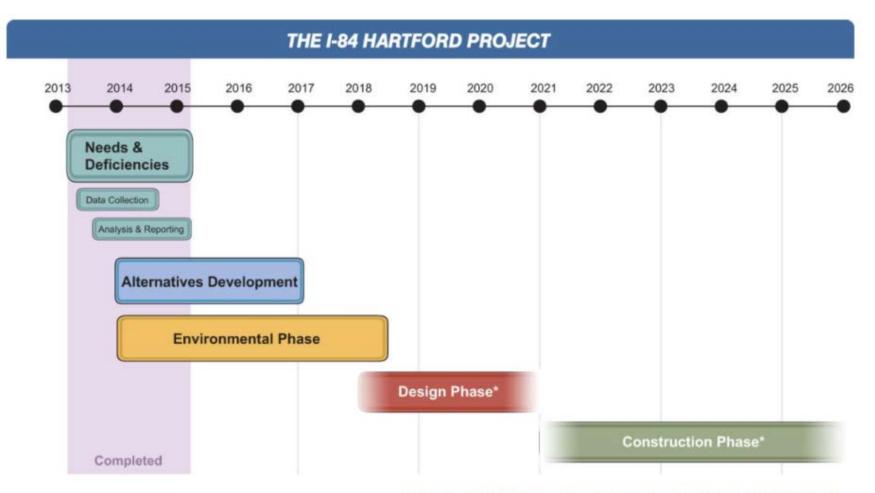


Alternatives





## **Project Schedule**



\*Actual schedule of these phases contingent upon preferred alternative and availability of funding.



## More meetings scheduled...

- Monthly Studios thru 2015
- Public meetings
- Summer pop-up events
- Stakeholder meetings







# Thank You!

Thank you for your time. We deeply appreciate your time and your commitment to helping us reach the best possible solution for the State of Connecticut, the Capitol Region, and the City of Hartford.

Your I-84 Hartford Project Team