1-91 VIADUCT STUDY

Springfield, Massachusetts





Working Group Meeting #2

One Financial Plaza
1350 Main Street
3rd Floor, Community Room A
Springfield, Massachusetts





- Welcome & Introductions
- Overview of Working Group Meeting #1
- Review & Discussion of Task 1 Draft Materials
- Review and Discussion of Task 2 Draft Materials
 - Existing Conditions
 - Traffic
 - Multi-modal
 - Land Use & Economic Development
 - Environmental & Public Health
- Issues & Constraints
- Next Steps



Welcome & Introductions



- Ethan Britland Project Manager (MassDOT)
- Margaret Round (Mass Public Health)
- Mark Arigoni, L.A. Principal-in-Charge (MMI)
- Van Kacoyannakis, P.E. Traffic (MMI)
- John Hoey Facilitator (MMI)
- Michael Gagnon, P.E. Environmental/Public Health (MMI)
- Alexandra Church, AICP Land Use & Economics (MMI)
- Rod Motamedi Economics (UMass Donahue Institute)
- Nancy Farrell Public Involvement (Regina Villa)
- Sarah Paritsky Public Involvement (Regina Villa)





- Task 1: Study Area, Goals & Objectives, Evaluation Criteria, and Public Involvement Plan
- Task 2: Existing Conditions, Future No Build Conditions and Issues Evaluation
- Task 3: Alternatives Development
- Task 4: Alternatives Analysis
- Task 5: Recommendations
- Task 6: Final Report



Overview to Working Group Meeting #1



Working Group Meeting #2

Task 1

- Study Area
- Goals & Objectives
- Evaluation Criteria
- Public Involvement Plan





Goals & Objectives



Goals

- Maintain or improve the safe and efficient function of I-91
 Interstate and local street network within the project study area,
 while significantly improving the connection between the
 downtown urban core and the riverfront
- Improve the quality of life for city residents (surrounding neighborhoods), existing/future business owners, daily commuting workforce, and visitors to the City of Springfield and surrounding communities



Goals & Objectives



Objectives

- Maintain or improve highway operations: I-91 North & South; I-91 & I-291 Interchange; I-291 on and off ramps within study area
- Improve safety on the Interstate
- Maintain or improve functionality, level of service and safety at key intersections within project area (regional and local)
- Enhance entrances/access points to City of Springfield from West (Memorial Bridge) and the riverfront
- Enhance and create new ADA compliant pedestrian (walking, jogging, bicycling, rollerblading, strollers, etc.) connections from the downtown (neighborhoods and business center) to the riverfront, as well as to the Hall of Fame and Union Station.



- Coordinate with the Knowledge Corridor improvements and operations
- Create multimodal accommodations at street level for safe mobility to and from key destinations in conjunction with corridor improvements
- Create more attractive, economically viable waterfront connection(s)
- Enhance access to existing development parcels, and create new development parcels
- Minimize environmental impacts (air, water, noise)
- Improve public health and awareness
- Environmental Justice
- Enhance intermodal connectivity (passenger vehicle, bus, rail, parking)
- o Improve the overall visual presence of the Interstate on the MILONE & COMMUNITY COMU

Evaluation Criteria

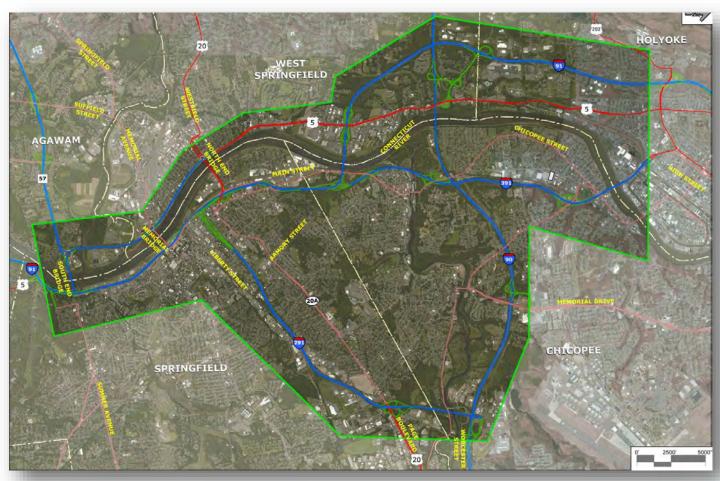


- Mobility and Accessibility
- Safety
- Health and Environmental Effects
- Land Use and Economic Development
- Community Effects
- Cost



Draft Regional Transportation Impact Area









Revised Regional Transportation Impact Area







Draft Primary Study Area





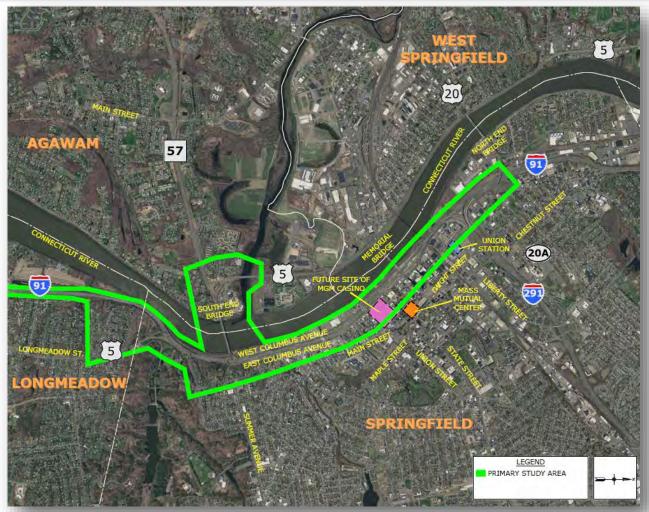




Revised Primary Study Area



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Review & Discussion of Task 2 Draft Materials



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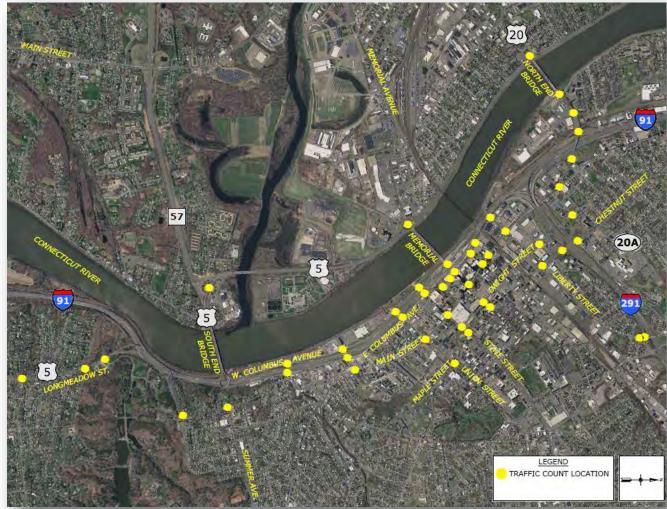
Existing Conditions

- Traffic
- Multi-modal
- Land Use & Economic Development
- Environmental & Public Health



Traffic Count Locations



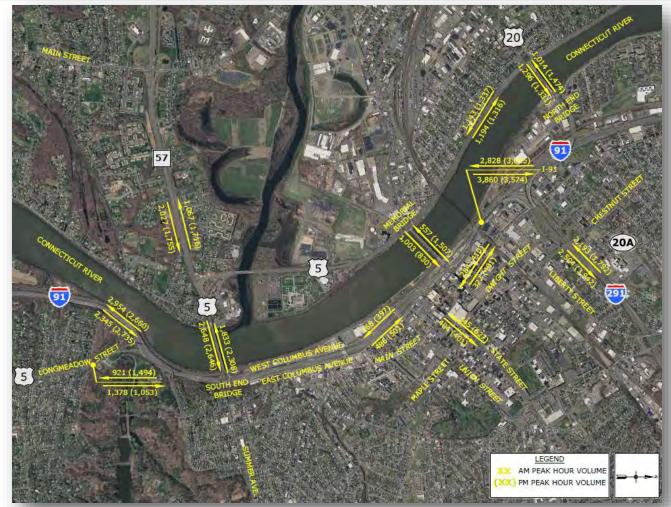






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Level of Service Criteria

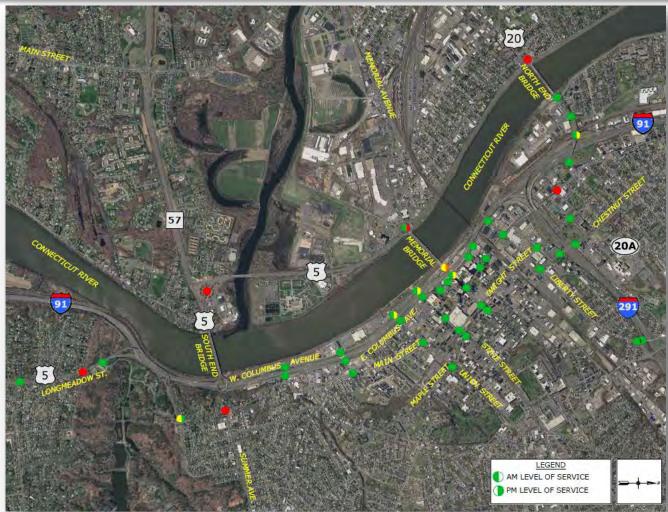


Level of Service	Signalized Intersections
	Delay (sec/veh)
A	≤ 10
В	>10-20
C	>20-35
D	>35-55
E	>55-80
F	>80



Traffic Operations



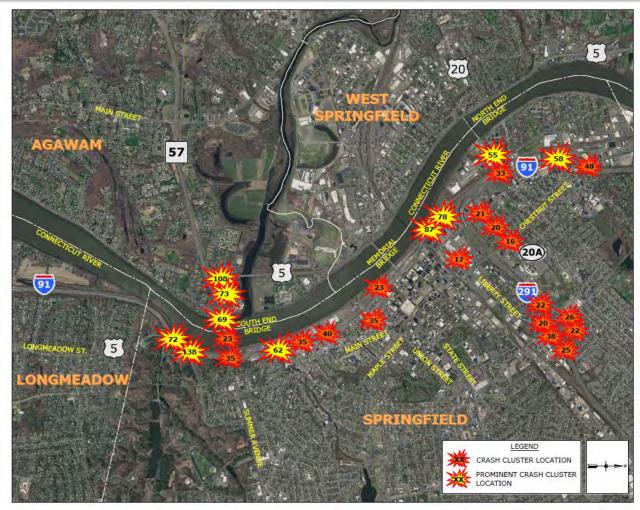






Crash Clusters



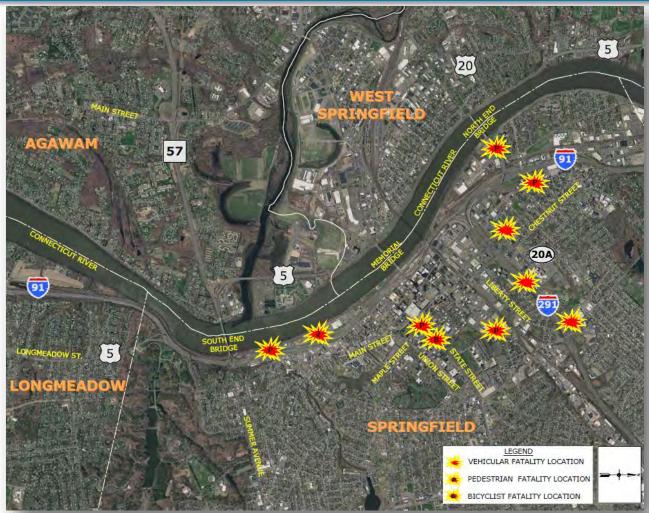






Fatality Locations









Selected Crash Statistics



- Between 2010 and 2012, there were five fatalities within the primary study area, two crashes involved pedestrians.
- In 2013 and 2014, there were four fatalities within the primary study area, three involved pedestrians.
- Between 2007 and 2009, there were two fatalities list in the PVPC study in the study area.
- The South End Bridge is listed on the MassDOT 2012 Top Crash Locations Report.



Selected Crash Statistics

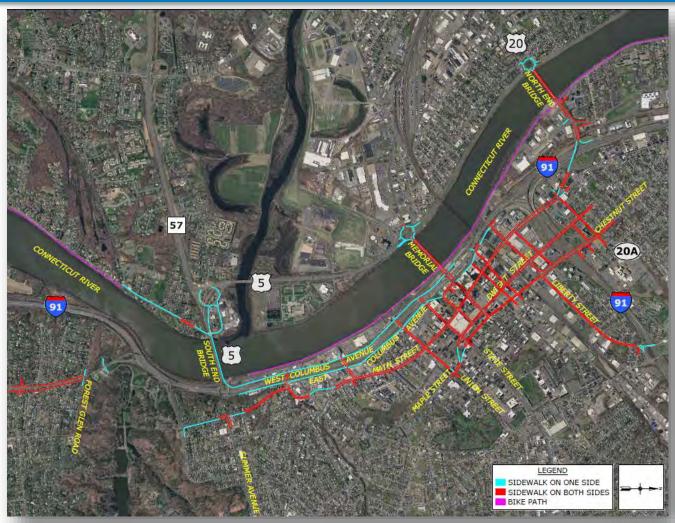


- Between 2010 and 2012, there were 1004 accidents along I-91, I-291, and on and off ramps within the primary study area; ten of these accidents involved pedestrians.
- Between 2010 and 2012, an additional 314 accidents were reported on the South End Bridge, ramps and the Route 5/57 Rotary.
- There are 13 intersections within the primary study area on the PVPC 2007 – 2009 Top 100 List.



Bicycle & Pedestrian Routes







Bicycle & Pedestrian Routes









State Street under I-91



Union Street under I-91



Main Street under I-91



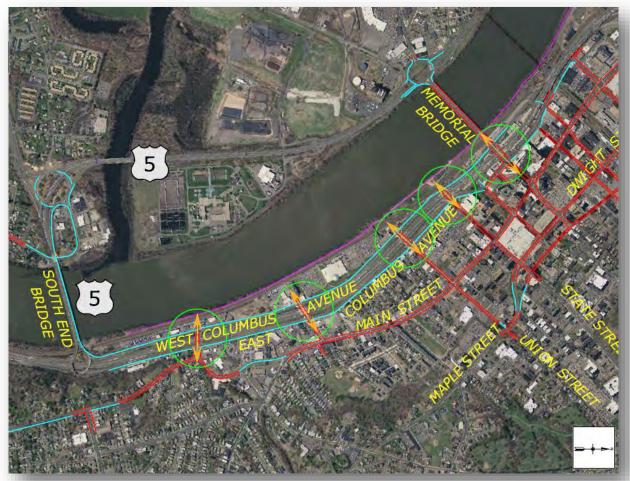
Board Street under I-91





Bicycle & Pedestrian Routes Under I-91









Bicycle & Pedestrian Routes Across Railroad



Transit Headways



Pioneer Valley Transit Authority Springfield Route Headways

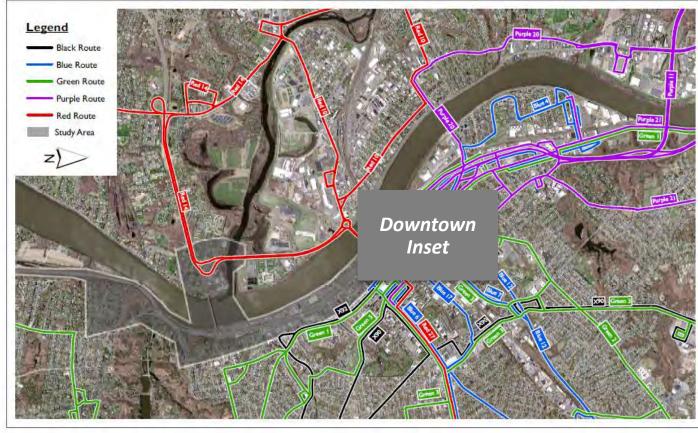
D . ID	D	Monday through Friday				
Route ID	Description	Morning	Midday	Afternoon	Saturday	Sunday
Blue 4	Plainfield Street	30	30	30	30	60
Blue 6	ue 6 Ludlow via Bay		20	30	30	60
Blue 7	ue 7 Walmart - Eastfield Mall		10 - 15	20 - 30	10 - 20	30
Blue 12	Stonybrook Express	4 Trips Per Day				
Blue 17	Eastfield Mall - Wilbraham Rd - Parker St	45	45	45 - 60	45	-
Green I	Chicopee Center - Big Y Sumner - Allen	20	20	20 - 30	30	45
Green 2	Carew - E.Springfield / Belmont - Dwight Rd.	20	20	20 - 30	30	60
Green 3	King - Westford - Hancock / Springfield Plaza	30	30	30	30	60
Green 5	Dickinson - Jewish Home SBT	45 - 60	45 - 60	30 - 45	30 - 60	
Red I0	W Springfield / Westfield / Westfield State U	30	45 - 60	45 - 60	60	60
Red 14	Feeding Hills / Springfield	60	60	60	60	60
Red I4E	Springfield / Agawam Industrial Park	4 Trips Per Day				
Red 27	Wilbraham / Eastfield Mall / Sixteen Acres	5 Trips Per Day				
Purple II	HCC Express	60 60 2 Trips				
Purple 20	Holyoke / Springfield via Holyoke Mall - Riverdale	30	15 - 30	30	15 - 30	30
Purple 21	Holyoke / Springfield via Chicopee	30 - 45	30	45	20 - 35	15 - 35
X90	Inner Crosstown	30	30	30	30	60
X92	Mid City Crosstown	45	45	45	45	

Source: Pioneer Valley Transit Authority, 2015















PVTA Springfield Routes Downtown Inset



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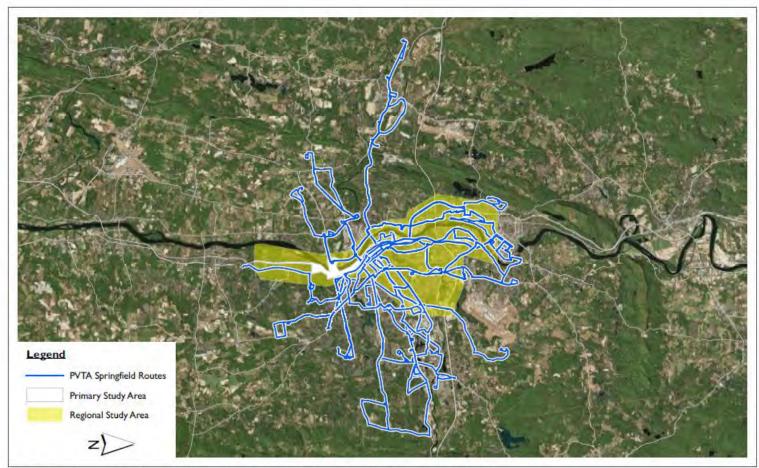








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PVTA Route Ridership

Pioneer Valley Transit Authority Ridership October 2014

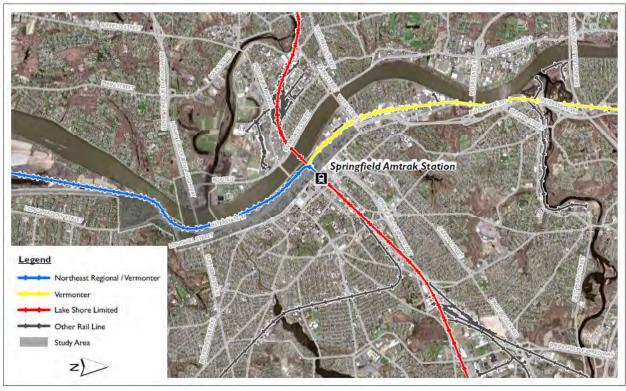
Route	Alighting	Boarding	Total		
Blue 7	119,729	127,534	247,263		
Green I	104,146	104,162	208,308		
Green 2	90,934	94,651	185,585		
Purple 20	81,383	83,858	165,241		
Blue 6	53,266	55,476	108,742		
Green 3	40,811	41,527	82,338		
Purple 21	38,385	40,363	78,748		
Red I0	28,152	29,038	57,190		
Blue 17	17,708	18,455	36,163		
Blue 4	14,950	15,103	30,053		
X90	13,852	14,872	28,724		
Red 14	10,559	11,219	21,778		
Green 5	10,012	10,817	20,829		
Purple I I	9,051	10,544	19,595		
Red 22	7,305	7,695	15,000		
Green 19	3,080	2,995	6,075		
X92	3,008	3,044	6,052		
Blue I2	1,241	1,496	2,737		
Red 27	657	746	1,403		
Note: Routes Green 19 and Red 22 were combined with Route X90.					

Source: Pioneer Valley Planning Commission, 2015





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Amtrak Springfield Station Daily Services

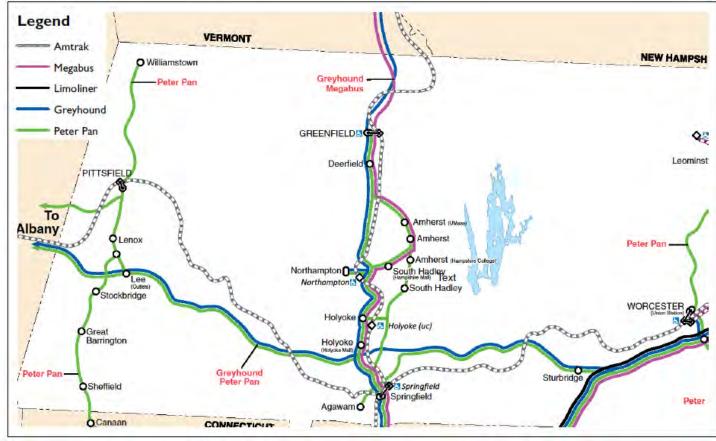
	Northeast Regional	Vermonter	Lake Shore Limited
Weekday	5 northbound	I northbound	l eastbound
	5 southbound	I southbound	I westbound
Weekend	6 northbound (7 on Friday)	I northbound	l eastbound
	6 southbound (7 on Sunday)	I southbound	I westbound

Source: Amtrak, 2015















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