

Welcome to the Open House for the I-90 Interchange Study

This presentation shares information on the study's process, progress, and findings so far.





The Planning Process

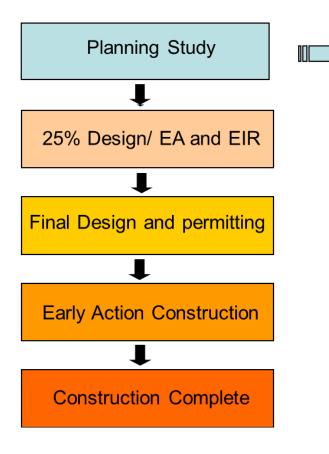






Study Process

MassDOT Planning Process



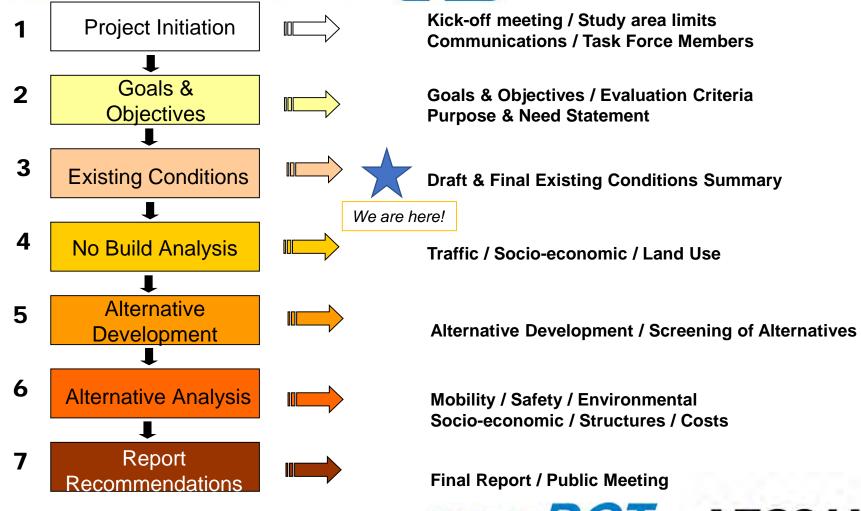
This is a **conceptual planning study**. It does not accomplish a final design or secure funding.



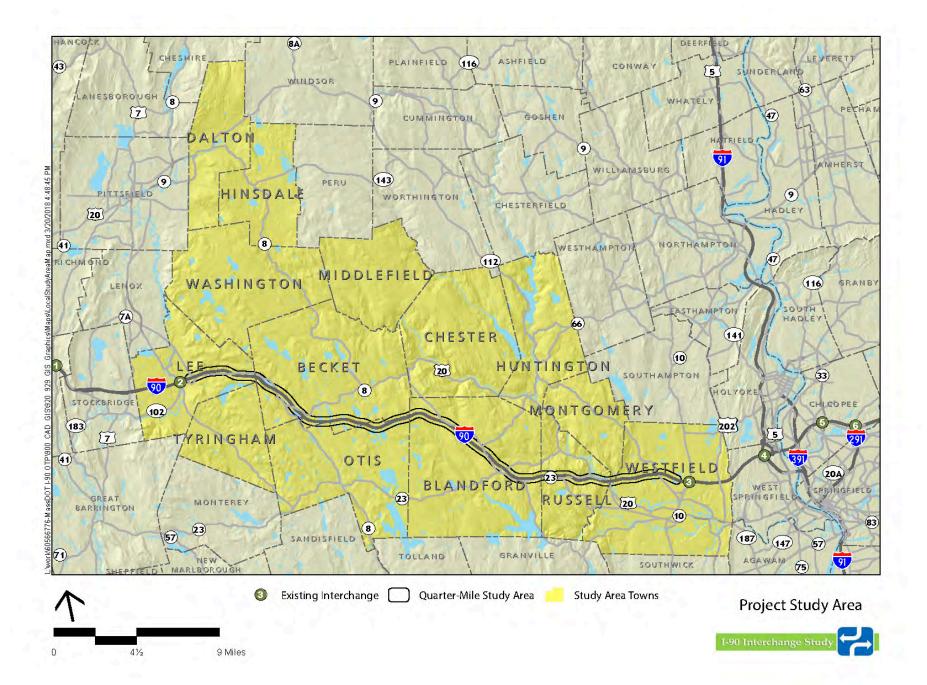


Study Process

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Massachusetts Department of Transportation





Gathering the Data





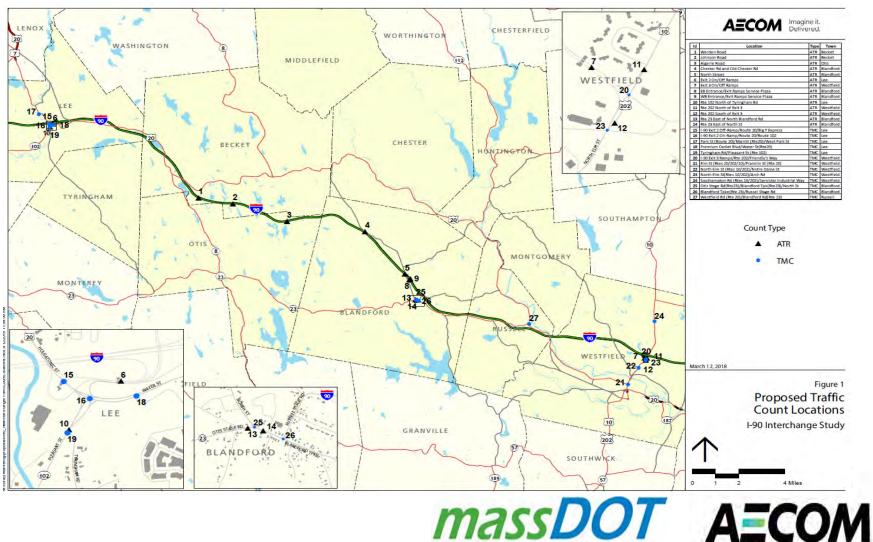


Traffic Count Program

- Daily and peak hour traffic counts will be conducted throughout the study area over the next several weeks
- These counts will identify passenger vehicles, trucks, pedestrians and bicycles, as appropriate
- The counts will be used to test traffic operations on local and regional roadways and diversion to potential interchange locations



Traffic Count Program



Massachusetts Department of Transportation



Traffic Count Program

- Existing data collection efforts have begun
- Substantial traffic data is available from several sources, including MassDOT and the I-90 All-Electronic Tolling (AET) gantries. Hourly, daily, monthly and annual data on volumes, trucks and speeds has been collected
- The counts will be used to account for daily and seasonal variations in traffic, and allow us to analyze peak conditions





Massachusetts Highway Department

ADT by Day of Week by Month for 1/1/2017 - 12/31/2017

District Community Location ID AET02 Direction 2-WAY RoadBed ML Located On MASSACHUSETTS TURNPIKE

AADT

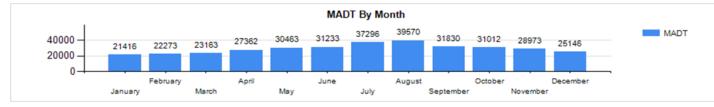
Collection Type

Factor Group R1

County Hampden

Functional Class (1) Interstate

	Average Daily Number of Vehicles							Avg. Day	Avg. Day as % of	Avg. Weekday	Avg. Day as % of Avg. Weekday	Avg. Weekday	Avg. Day as % of Avg. Weekday	
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	(Mon-Sun)	Year Avg.	(Mon-Thu)	(Mon-Thu)	(Mon-Fri)	(Mon-Fri)	
JAN	21,925	22,363	18,967	20,225	21,448	25,653	19,338		73.48%	20,751	103.21%	21,731	98.55%	
FEB	20,553	21,706	20,028	21,089	23,010	28,271	21,259		76.42%	21,458	103.80%	22,821	97.60%	
MAR	25,940	22,390	20,865	19,855	23,794	28,061	21,240		79.48%	21,726	106.61%	22,993	100.74%	
APR	30,060	26,573	23,632	24,568	27,247	34,344	25,113		93.88%	25,505	107.28%	27,273	100.33%	
MAY	33,369	29,120	25,516	26,158	29,842	39,297	29,947		104.52%	27,659	110.14%	29,987	101.59%	
JUN		28,303	27,243	29,077	29,830	41,773	31,178		107.17%	28,613	109.16%	31,245	99.96%	
JUL	43,388	33,729	29,525	33,344	34,992	45,620	40,480		127.97%	32,898	113.37%	35,442	105.23%	
AUG	47,854	35,739	31,556	33,297	37,643	48,772	42,138		135.77%	34,559	114.50%	37,401	105.80%	
SEP	35,890	31,615	26,543	26,229	29,541	40,685	32,316		109.21%	28,482	111.75%	30,923	102.93%	
OCT	35,808	29,361	24,791	25,601	29,086	41,100	31,344		106.41%	27,210	113.97%	29,988	103.42%	
NOV	33,700	25,294	26,314	28,089	26,506	34,319	28,594		99.41%	26,551	109.12%	28,104	103.09%	
DEC	21,608	21,279	27,535	25,928	27,241	29,351	23,084		86.28%	25,496	98.63%	26,267	95.73%	
Year	31,827	27,289	25,210	26,122	28,348	36,437	28,836			26,742	108.98%	28,681	101.62%	

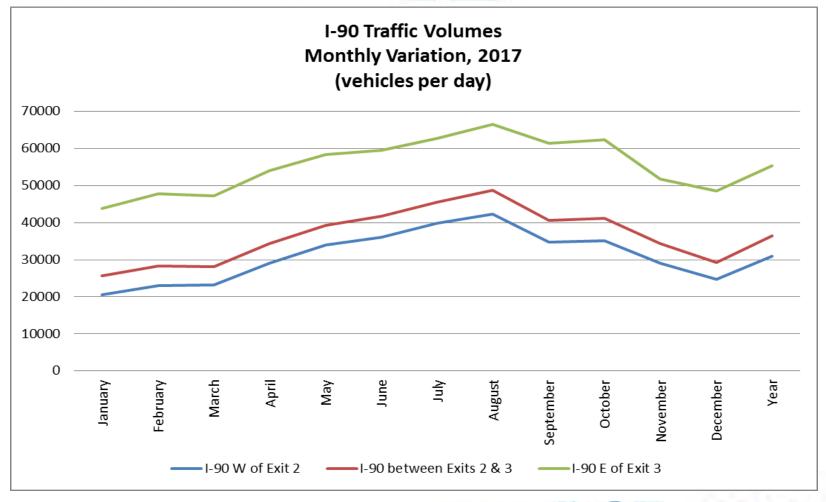


NOTE: VALUES ARE ROUNDED; TOTALS AND PERCENTS MAY NOT ADD UP.





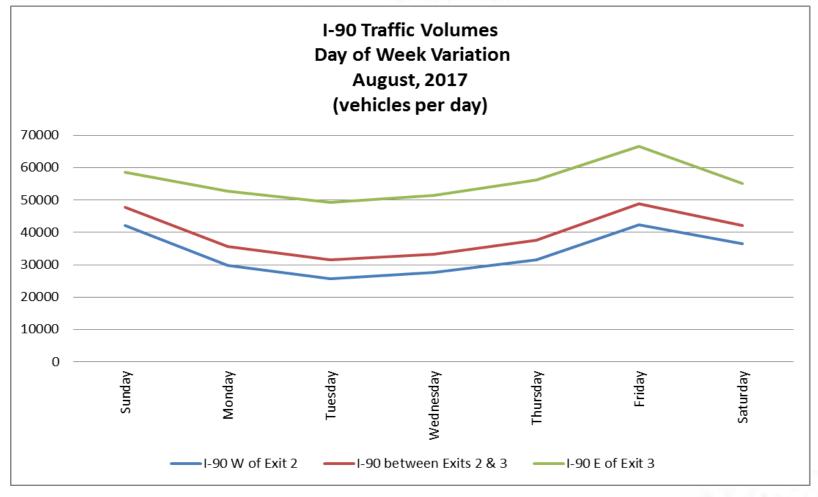
















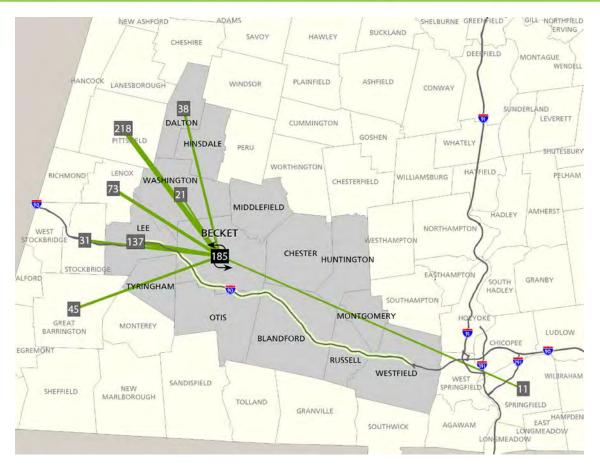


Travel Patterns

Journey-to-Work Information

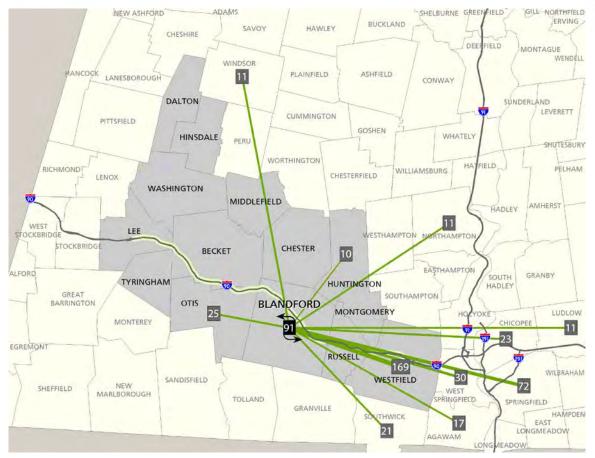
- Data has been collected on the work-related travel patterns of study area residents
- This information will also assist in identifying diversion of trips to potential interchange locations
- Data was collected from the US Census Bureau American Community Survey, and represents 2016 estimates























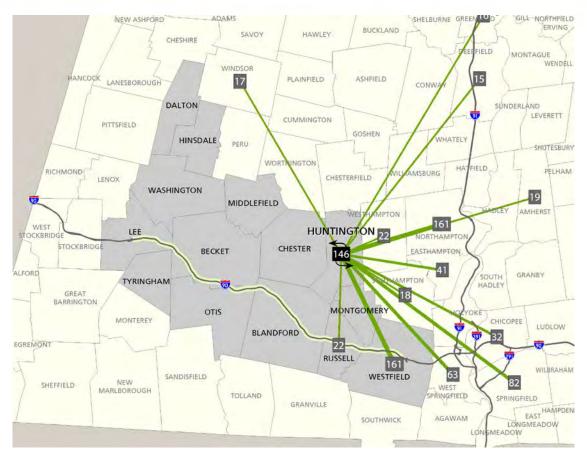


















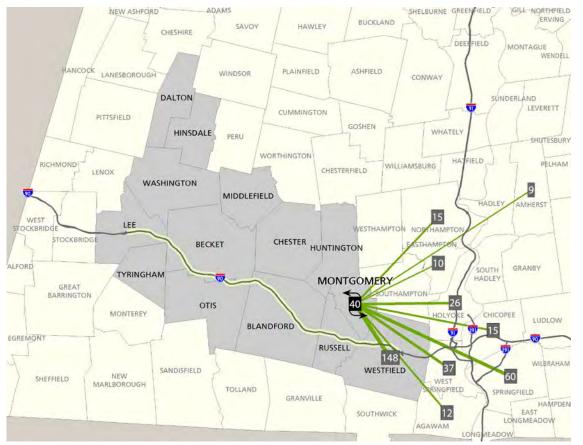












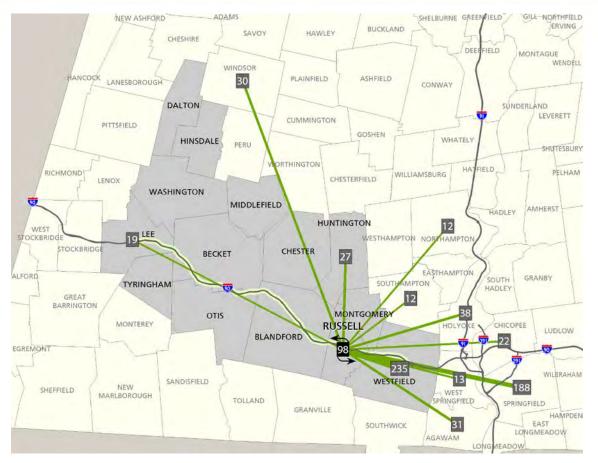












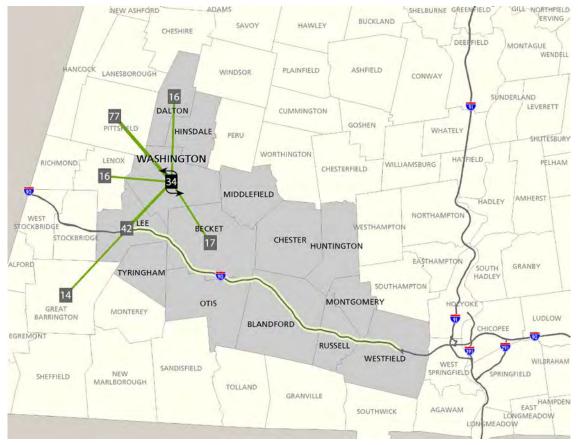






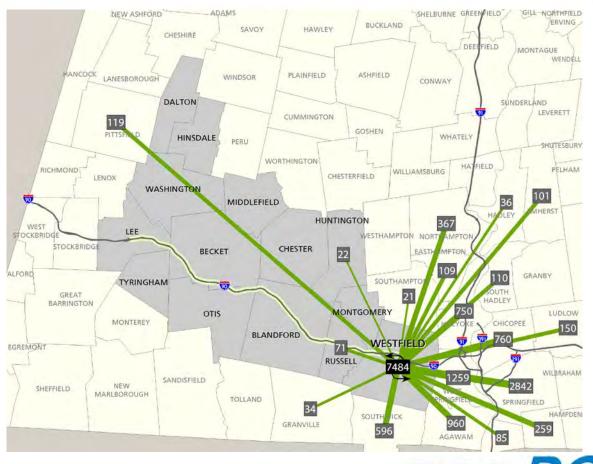










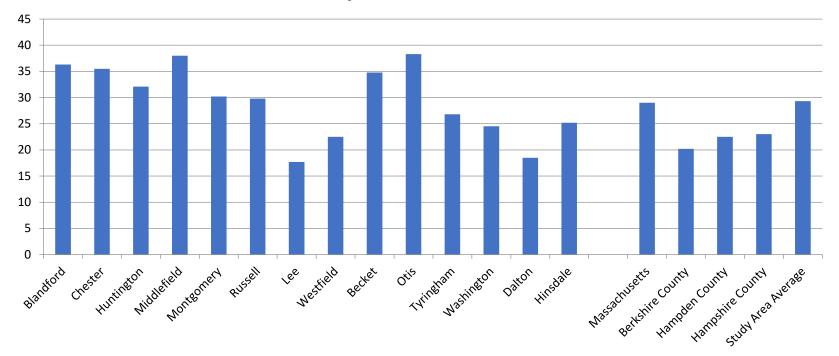








Mean Travel Time to Work (minutes) Study Area Communities



Mean Travel Time to Work (minutes)









- Evaluation Criteria Design & Operations
 - Interchange Type/Configuration
 - Local Road Connections
 - Impact on Adjacent Interchanges
 - Safety Improvements
 - Truck Traffic







- Evaluation Criteria Environmental Resources
 - Wetlands
 - Water Resources
 - Protected Species Habitat
 - Steep Slopes / Topography
 - Public Open Space
 - Cultural Resources
 - Air Quality
 - Hazardous Materials







- Evaluation Criteria Socioeconomic Effects
 - Noise
 - Neighborhood Impacts
 - Right-of-Way Impacts
 - Environmental Justice
 - Economic Benefit
 - Public Health





- Evaluation Criteria Financial & Regulatory
 - Construction Cost
 - Constructability
 - Property Takings
 - Need to Upgrade Connecting Roadways
 - Schedule and Phasing
 - Permit Requirements
 - Regulatory Filings
 - Mitigation Requirements





Areas of Interest



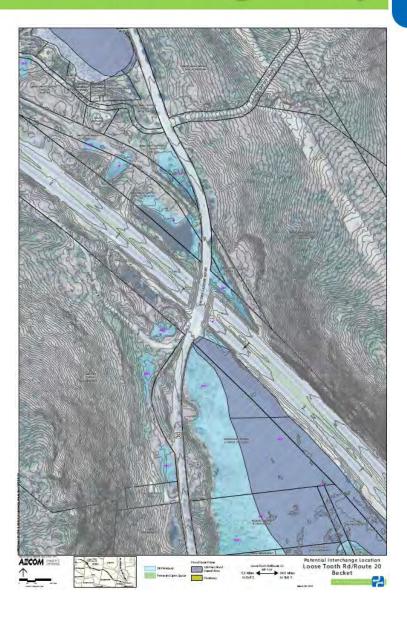


Areas of Interest

- Initial interchange locations have been identified based on the potential to connect to existing roadways that are adjacent to, or cross over or under, I-90
- Additional locations may be investigated based upon further analysis or input from study area communities and residents
- Evaluation criteria will include design and operations, environmental resources, socioeconomic effects, and financial and regulatory considerations



Areas of Interest



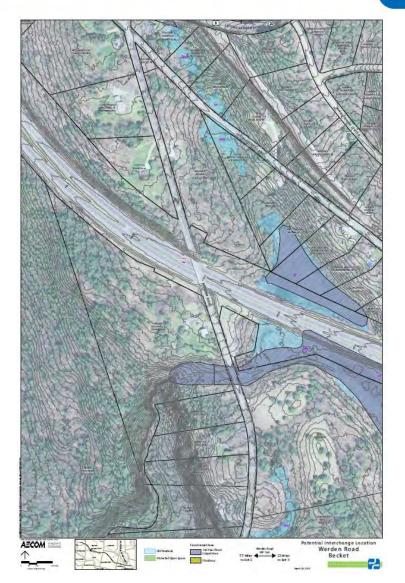
Loose Tooth Rd/Route 20, Becket

- 5.2 miles to Exit 2 / 24.5 miles to Exit 3
- Surface water and wetland constraints in all four quadrants





Areas of Interest



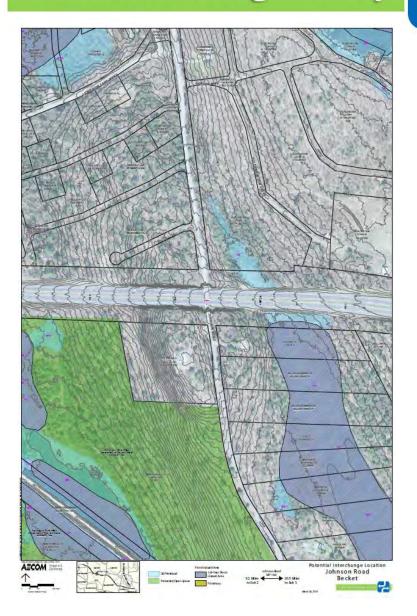
Werden Road, Becket

- 7.7 miles to Exit 2 / 22 miles to Exit 3
- Wetlands, surface water in two quadrants
- Limited ROW on south side, steep slopes on north side





Areas of Interest

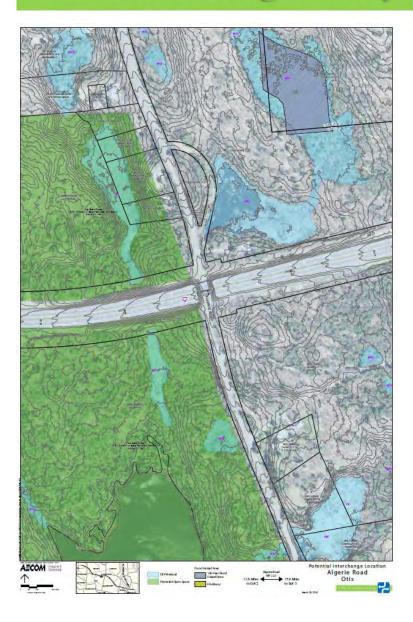


Johnson Road, Becket

- 9.2 miles to Exit 2 / 20.5 miles to Exit 3
- Wetlands in two quardants
- Steep slopes
- Wildlife Management Area



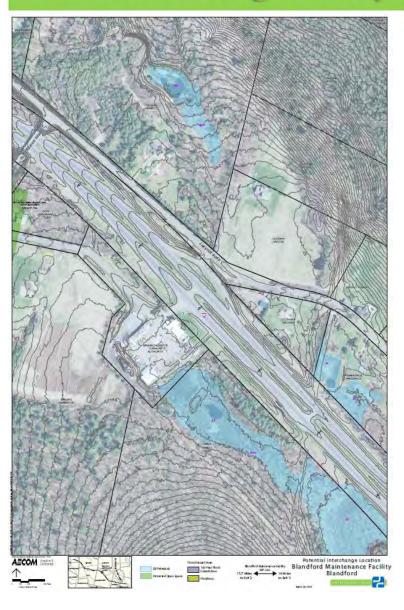
Areas of Interest



Algerie Road, Otis

- 11.8 miles to Exit 2 / 17.9 miles to Exit 3
- Wetlands in three quadrants
- State Forest
- Steep slopes





Areas of Interest

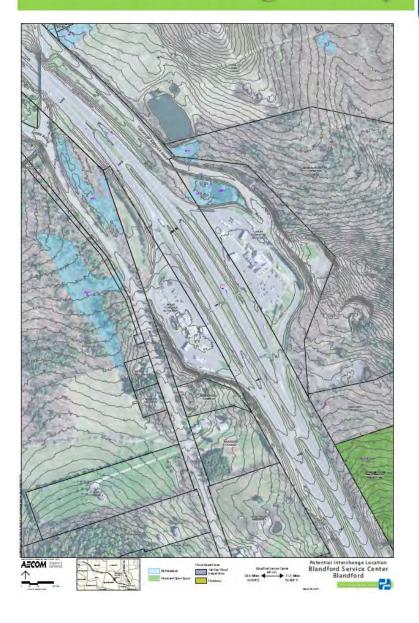
Blandford Maintenance Facility, Blandford

- 15.7 miles to Exit 2 / 14 miles to Exit 3
- Potential connection to Chester Road, Old Chester Road
- Wetlands on both sides of I-90
- Maintenance facility operations
- Protected open space





Areas of Interest



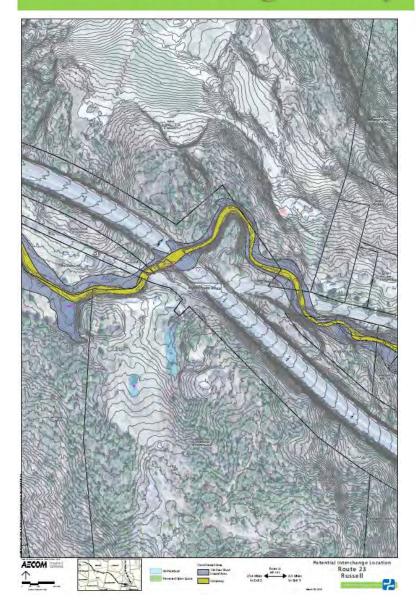
Blandford Service Center, Blandford

- 18.4 miles to Exit 2 / 11.3 miles to Exit 3
- Some wetland areas
- Shared use of Service Center roadway infrastructure
- Potential connection to North Street
- Additional MassDOT property on WB side of I-90





Areas of Interest



Route 23, Russell

- 23.4 miles to Exit 2 / 6.3 miles to Exit 3
- Floodway, surface water
- Steep slopes
- Widened ROW







Schedule & Next Steps





SCHEDULE

	2018										1.1.1.1.1.1.1
	February	March	April	May	June	July	August	September	October	November	December
Task 1: Study Area, Goals and Objectives,		100	-		-		Carl Strate	Carl and the loss			a a laboration
Evaluation Criteria, and Public Participation	-			_							-
Study Area							1				-
Goals and Objectives			1	1							
Evaluation Criteria						_					
Public Participation Plan											
Task 2: Existing Conditions, Future No-Build											
Conditions, and Issues Evaluation	-	_		-	1		1	-		1	-
Existing Conditions and Data Collection											
Future Year Conditions					_	_					
Definition & Evaluation of Issues & Opportunities		_						_	-		
Constraints Identification			_			_			_		
Task 3: Alternatives Development	1	-	-	_			1	-	-		
Design Development						_	-				
Task 4: Alternatives Analysis					_	_		_		-	
Mobility & Accessibility Analysis	1	2								1	
Safety Analysis				_							
Environmental Effects Analysis	(P		·							· · · · · · · · · · · · · · · · · · ·
Public Health Analysis											
Land Use & Economic Development Analysis									-		
Community Effects/Title VI/Environmental Justice Analysis											
Cost Analysis	0										
Task 5: Recommendations	-				-						_
Recommendations		· · · · ·		-						1	
Task 6: Final Report		-		-		-	6				
Draft and Final Report				-			S		-		







Next Steps

- Review input from this Open House
- Finalize Goals and Objectives and develop Future Conditions, Issues and Opportunities & Constraints
- Hold Working Group Meeting #2
- Continue to develop alternatives
- Next Public Meeting September 2018



