

# MGM Springfield



Technical Response to  
Longmeadow's  
Petition for Surrounding  
Community Designation



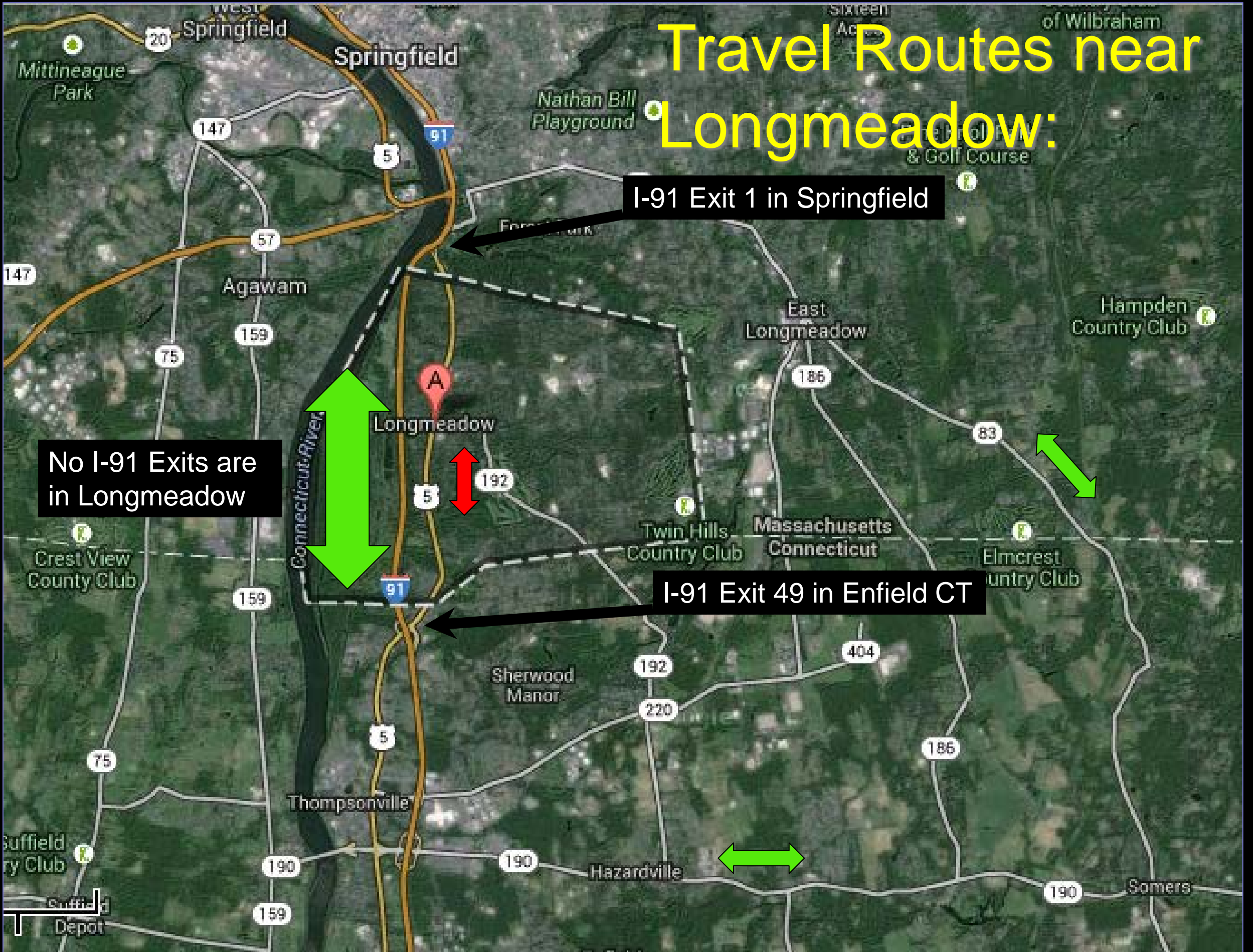
January 28, 2014

# Travel Routes near Longmeadow:

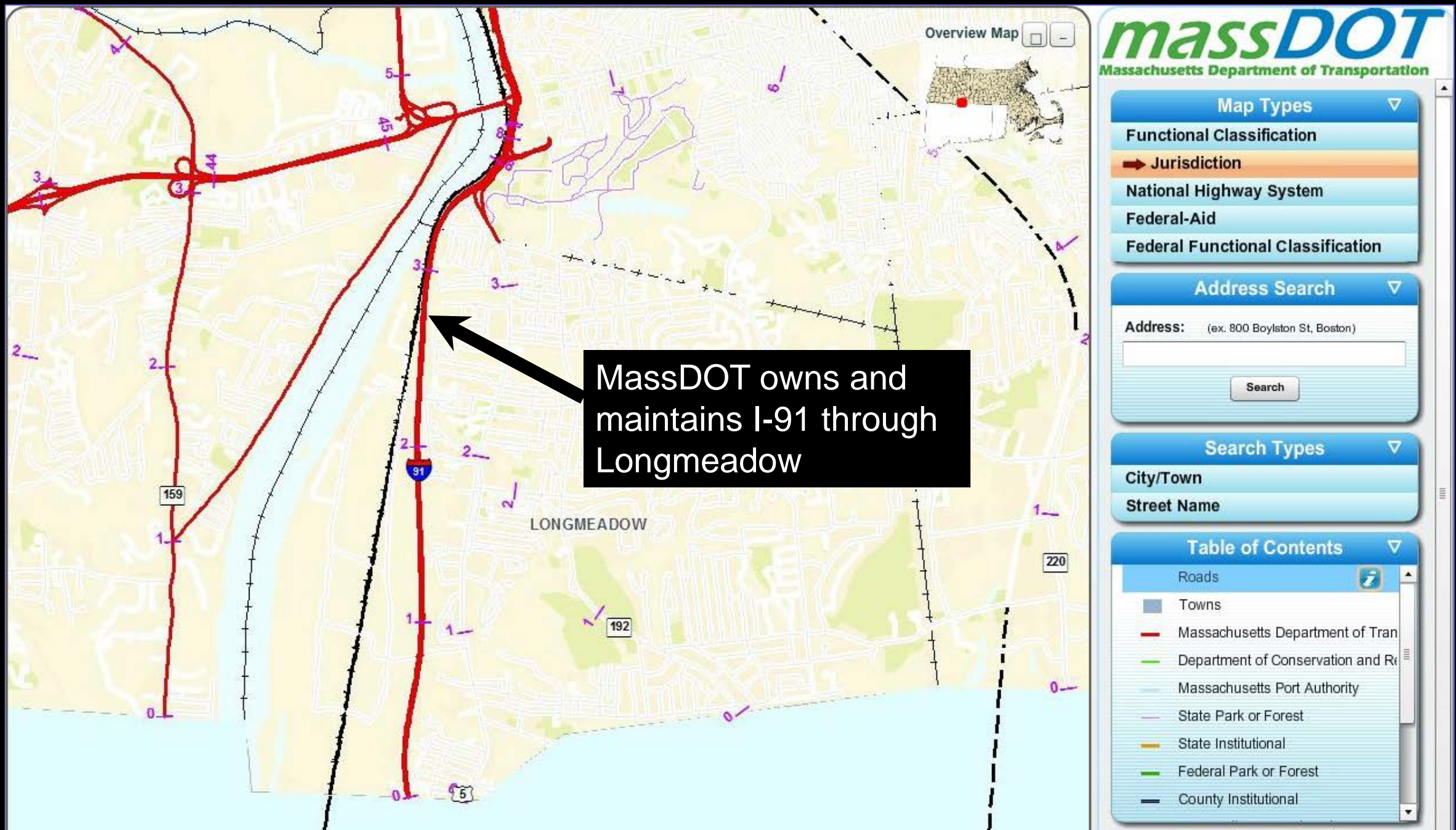
I-91 Exit 1 in Springfield

No I-91 Exits are in Longmeadow

I-91 Exit 49 in Enfield CT



# Roadway Jurisdiction in Longmeadow



# Longmeadow Travel Time Runs:

- Friday, January 17, 2014  
5:00 to 7:00 PM (Holiday weekend)



I-91 North	Route 5 North
13:40	20:03
17:00	21:42
14:20	19:03
16:25	17:17
11:10	20:43
13:17	22:18
22:37	19:38
20:10	18:11
17:00	-
<b>Avg. 16:11</b>	<b>Avg. 19:51</b>

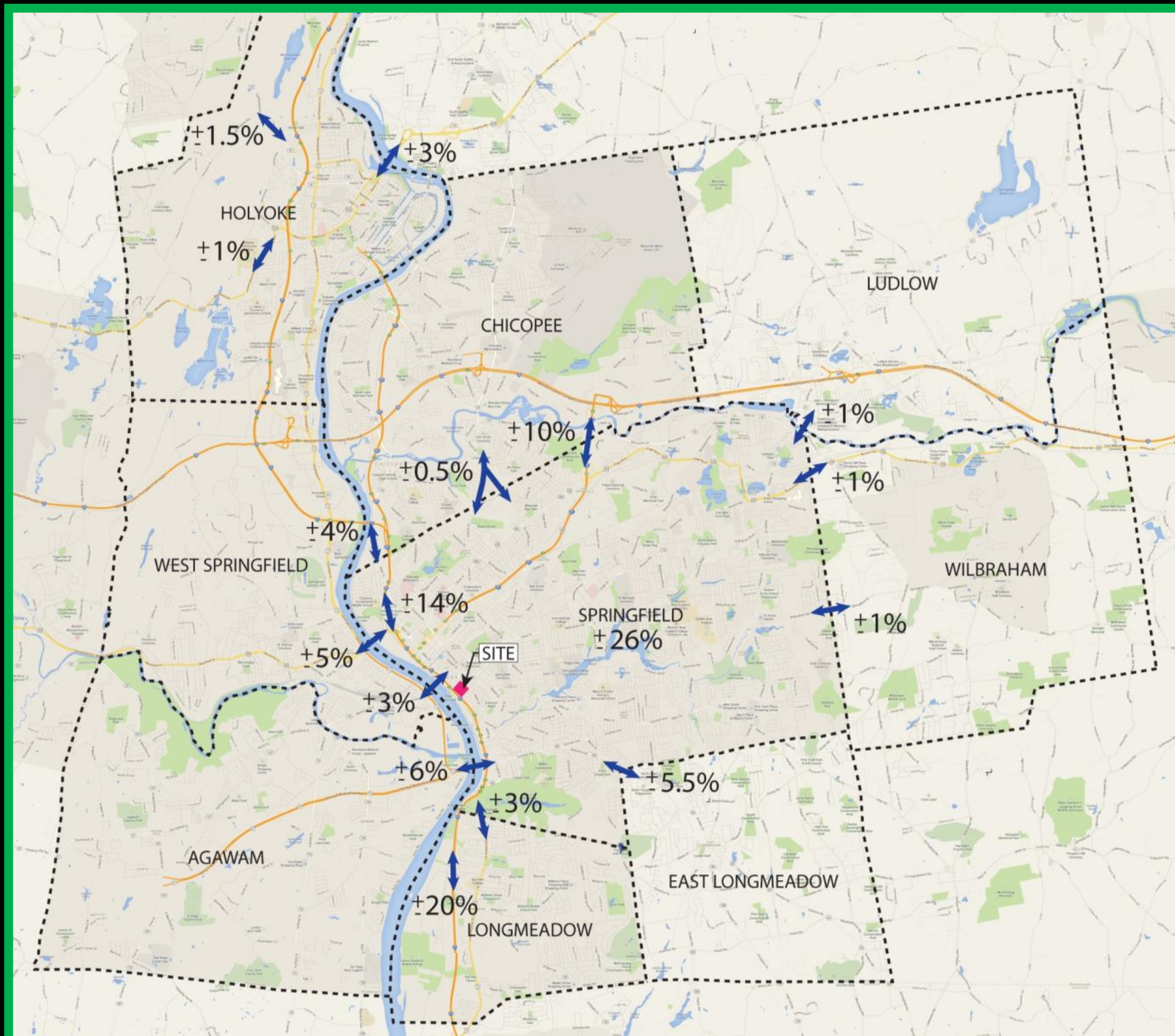
# Comparison of Hourly Casino Trip Rates

Per Gaming Position (for Patrons & Employees)

	<b>MGM Grand (Detroit, MI)</b>	<b>Horseshoe Hammond Casino (Hammond, IN – east of Chicago, IL)</b>	<b>Sugarhouse Casino (Philadelphia, PA)</b>
Friday Evening Peak Hour	0.26	0.20	0.23
Saturday Midday Peak Hour	0.30	0.25	0.25
* MGM's rates are $\pm 20\%$ higher than the two most comparable sites and are therefore conservative.			

**\*\*TEC's trip rates for MGM are slightly higher than the projections approved within the Suffolk Downs DEIR**

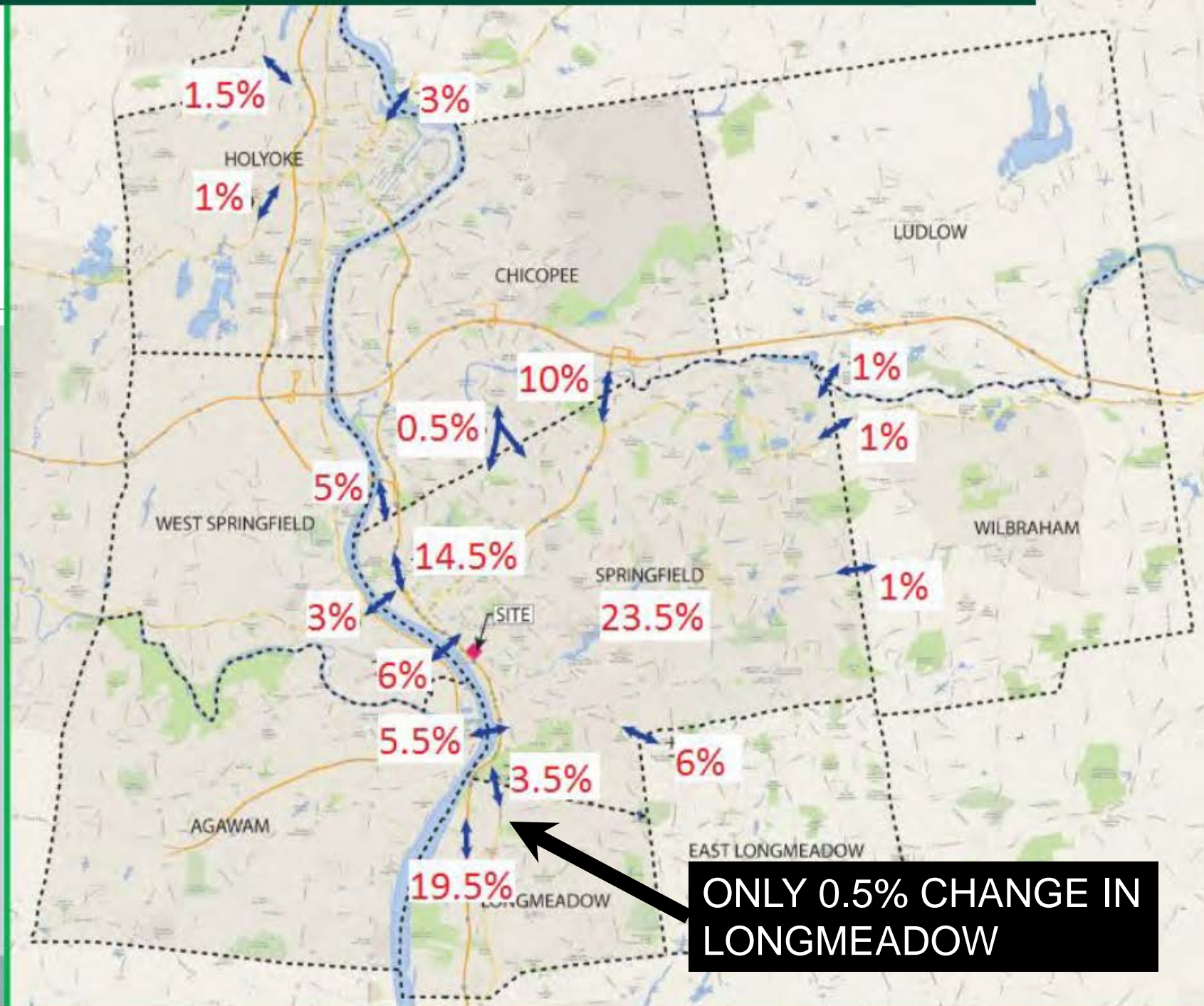
# Local Trip Distribution – by Percentage Projected by TEC in MGM's DEIR



# Local Trip Distribution – by Percentage From GPI Peer Review

## Review Summary – GPI % Trips to Neighboring Communities

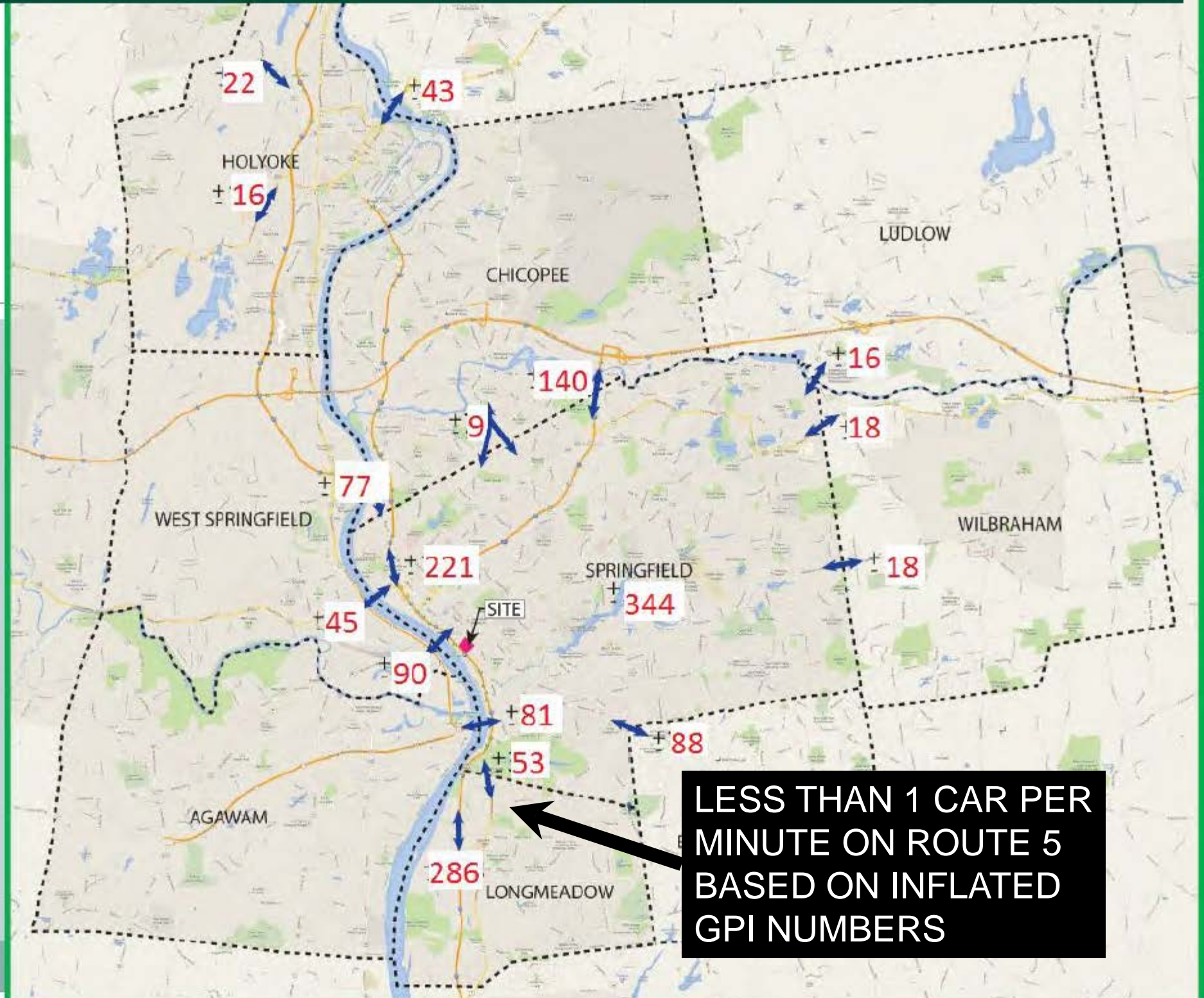
**GPI**



# GPI-Predicted Trip Increases

## Review Summary – GPI Actual Trips to Neighboring Communities

**GPI**





# Intersection Capacity & Queue Analysis:

- Excerpt from MGM Springfield DEIR

Intersection / Time Period	2024 No-Build			2024 Build without Retiming			2024 Build with Retiming		
	V/C	Delay	LOS	V/C	Delay	LOS	V/C	Delay	LOS
Longmeadow St / Forest Glen Rd / Western Dr									
Friday Evening Peak Hr	0.95	29.7	C	0.96	31.4	C	0.95	29.9	C
Saturday Midday Peak Hr	0.57	11.0	B	0.59	11.4	B	0.59	11.5	B
Longmeadow St / Converse St / Englewood Rd									
Friday Evening Peak Hr	0.71	14.6	B	0.71	15.2	B	-	-	-
Saturday Midday Peak Hr	0.50	10.0	A	0.53	10.3	B	-	-	-

# Traffic Safety & Emergency Response

- No basis for projected collision increase on I-91
- 3 collisions discussed by Longmeadow occurred during off-peak traffic periods (AM or weekend)
- PVPC Study shows no correlation between Big E and increase in collision rates on I-91
- MGM Springfield daily visitation is 25 – 29% of Big E
- Crash rates on Route 5 below state and district averages

	Whole Year			During the BigE		
	Crashes on 91	Days/Crash	Crash/Day	Crashes on I91	Days/Crash	Crash/Day
Number of crashes in 2007	182	2.01	0.50	5	3.4	0.29
Number of crashes in 2008	172	2.12	0.47	8	2.13	0.47
Number of crashes in 2009	224	1.63	0.61	13	1.31	0.76

Type of Day	Daily Visitation (in persons)	
	MGM Springfield	Big E
Weekday (Non-Friday)	19,009	65,391
Weekend Day (Fri – Sun)	26,643	106,532

# Traffic Engineering Conclusions:

- Data-driven and quantitative analysis by TEC indicates no perceivable traffic impact in Longmeadow
- MGM Springfield will result in 1.7% increase in trips on Route 5 during the Friday peak period
- No change in LOS at gateway intersections and less than two (2) second/vehicle increase in delay
- I-91 congestion will be addressed by MassDOT as part of a future regional-scale, publically-funded project with active studies
- **Longmeadow will not experience any significant and adverse impact to its transportation infrastructure**