

2012 Major Bottleneck Analysis Study

Stoughton—Route 138 from Stoughton Square to the Canton Town Line

Corridor Intersections Analysis

Stoughton Square—South End



Intersection Identification

Major Street: Washington Street (Route 138)
Minor Street: Park Street (Route 27) & Pleasant Street (Route 139)
Traffic Control: Traffic Signal
Jurisdiction: Town of Stoughton
Federal Aid Eligibility: Yes

Intersection Operation & Safety

Operations Analysis	Morning (AM)	Afternoon (PM)
Peak Hour	7:15-8:15 AM	4:45-5:45 PM
Peak Hour Volume	2,294	2,192
Peak Hour Factor	0.969	0.940
Level-of-Service	B	B
Average Delay (sec)	18.70	16.00

Safety Analysis	
Crashes (2007-2009): 31	Crash Rate (2007-2009): 1.07
Property Damage Only: 27	MassDOT District 5 Crash Rate:
Injuries: 5	Unsignalized Intersection: 0.60
Fatalities: 0	Signalized Intersection: 0.77



Old Colony Planning Council
 70 School Street
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Peak Hour: The hour of the day at which the highest volume of traffic is recorded

Peak Hour Volume: The volume of traffic occurring during the peak hour

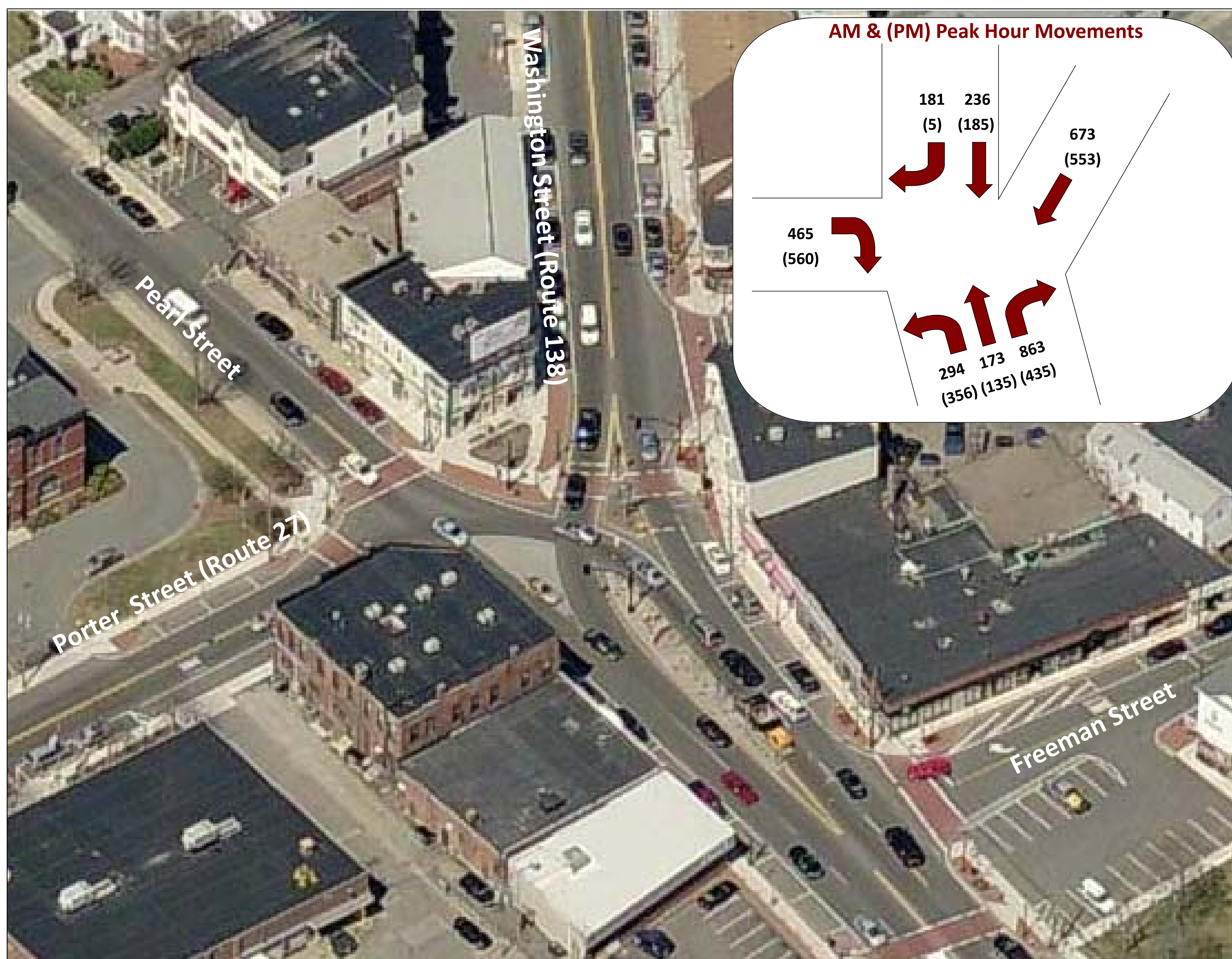
Peak Hour Factor: A measure of how evenly the rate of flow of traffic is during the peak hour

Level-of-Service (LOS): A qualitative and quantitative measure that summarizes the overall operation of an intersection or transportation facility. Level-of-Service represents a range of operating conditions and is summarized with letter grades from "A" to "F", with "A" being most desirable.

2012 Major Bottleneck Analysis Study

Stoughton—Route 138 from Stoughton Square to the Canton Town Line Corridor Intersections Analysis

Stoughton Square—North End



Intersection Identification

Major Street: Washington Street (Route 138)
Minor Street: Porter Street (Route 27) & Pearl Street
Traffic Control: Traffic Signal
Jurisdiction: Town of Stoughton
Federal Aid Eligibility: Yes

Intersection Operation & Safety

Operations Analysis	Morning (AM)	Afternoon (PM)
Peak Hour	7:15-8:15 AM	4:45-5:45 PM
Peak Hour Volume	2,916	2,244
Peak Hour Factor	0.929	0.979
Level-of-Service	C	E
Average Delay (sec)	20.40	69.90

Safety Analysis	Crash Rate (2007-2009): 0.61
Crashes (2007-2009): 16	MassDOT District 5 Crash Rate:
Property Damage Only: 14	Unsignalized Intersection: 0.60
Injuries: 2	Signalized Intersection: 0.77
Fatalities: 0	



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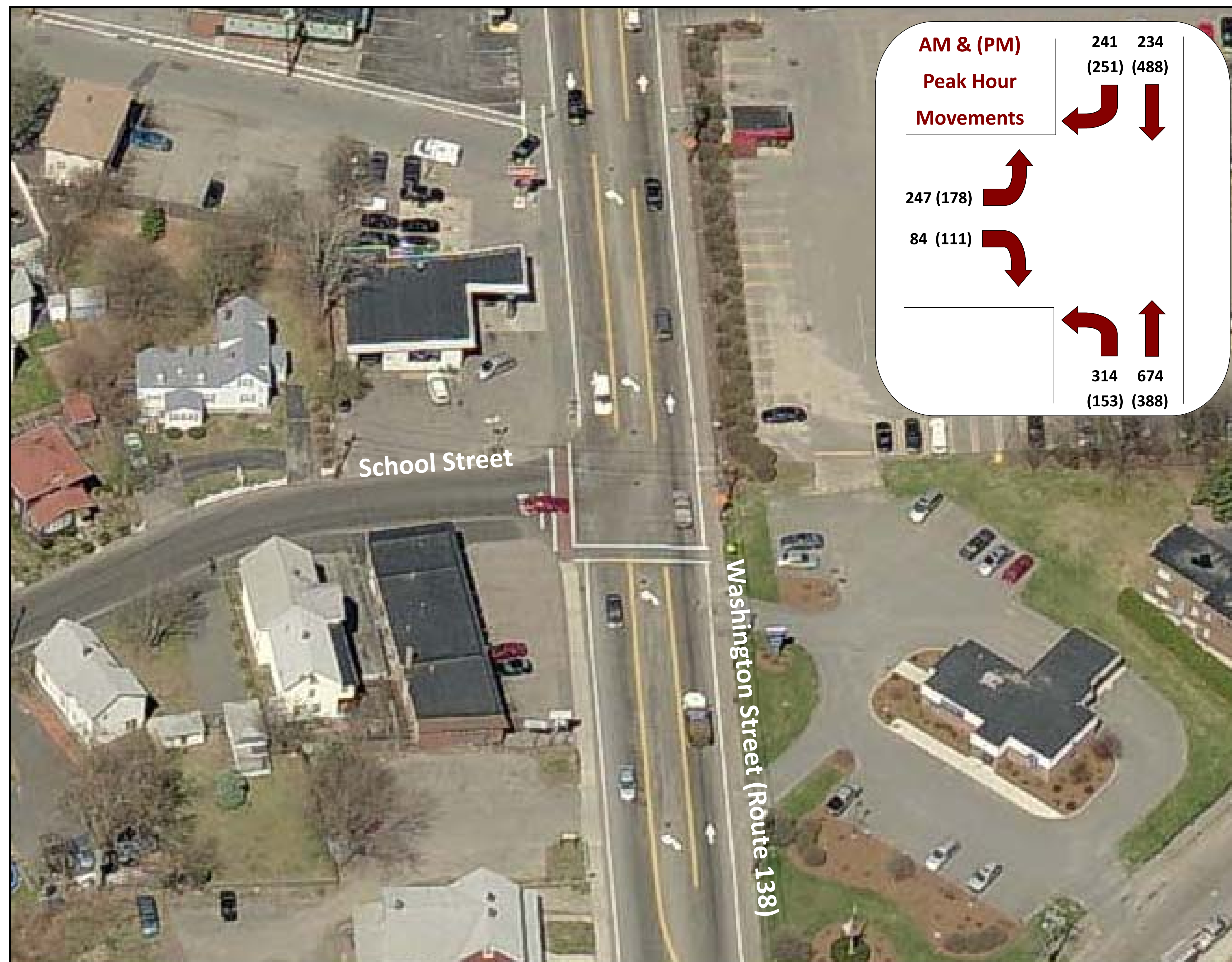
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Stoughton—Route 138 from Stoughton Square to the Canton Town Line

Corridor Intersections Analysis

Washington Street (Route 138) & School Street



Intersection Identification

Major Street: Washington Street (Route 138)
Minor Street: School Street
Traffic Control: One Way Stop
Jurisdiction: Town of Stoughton
Federal Aid Eligibility: Yes

Intersection Operation & Safety

Operations Analysis	Morning (AM)	Afternoon (PM)
Peak Hour	7:00-8:00 AM	4:15-5:15 PM
Peak Hour Volume	1,803	1,584
Peak Hour Factor	0.943	0.980
Level-of-Service		
<i>Washington Street (138) NB LT</i>	B	B
<i>School Street EB LT & RT</i>	F	F
Safety Analysis		
Crashes (2007-2009): 21	Crash Rate (2007-2009): 1.15	
<i>Property Damage Only: 15</i>	MassDOT District 5 Crash Rate:	
<i>Injuries: 10</i>	<i>Unsignalized Intersection: 0.60</i>	
<i>Fatalities: 0</i>	<i>Signalized Intersection: 0.77</i>	



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Stoughton—Route 138 from Stoughton Square to the Canton Town Line

Corridor Intersections Analysis

Washington Street (Route 138) & Lincoln Street



Intersection Identification

Major Street: Washington Street (Route 138)
Minor Street: Lincoln Street
Traffic Control: One Way Stop
Jurisdiction: Town of Stoughton
Federal Aid Eligibility: Yes

Intersection Operation & Safety

Operations Analysis	Morning (AM)	Afternoon (PM)
Peak Hour	7:00-8:00 AM	4:00-5:00 PM
Peak Hour Volume	1,588	1,568
Peak Hour Factor	0.930	0.966
Level-of-Service		
<i>Washington Street (138) SB LT</i>	B	A
<i>Lincoln Street WB LT & RT</i>	F	F
Safety Analysis		
Crashes (2007-2009): 11	Crash Rate (2007-2009): 0.60	
<i>Property Damage Only: 6</i>	MassDOT District 5 Crash Rate:	
<i>Injuries: 5</i>	<i>Unsignalized Intersection: 0.60</i>	
<i>Fatalities: 1</i>	<i>Signalized Intersection: 0.77</i>	

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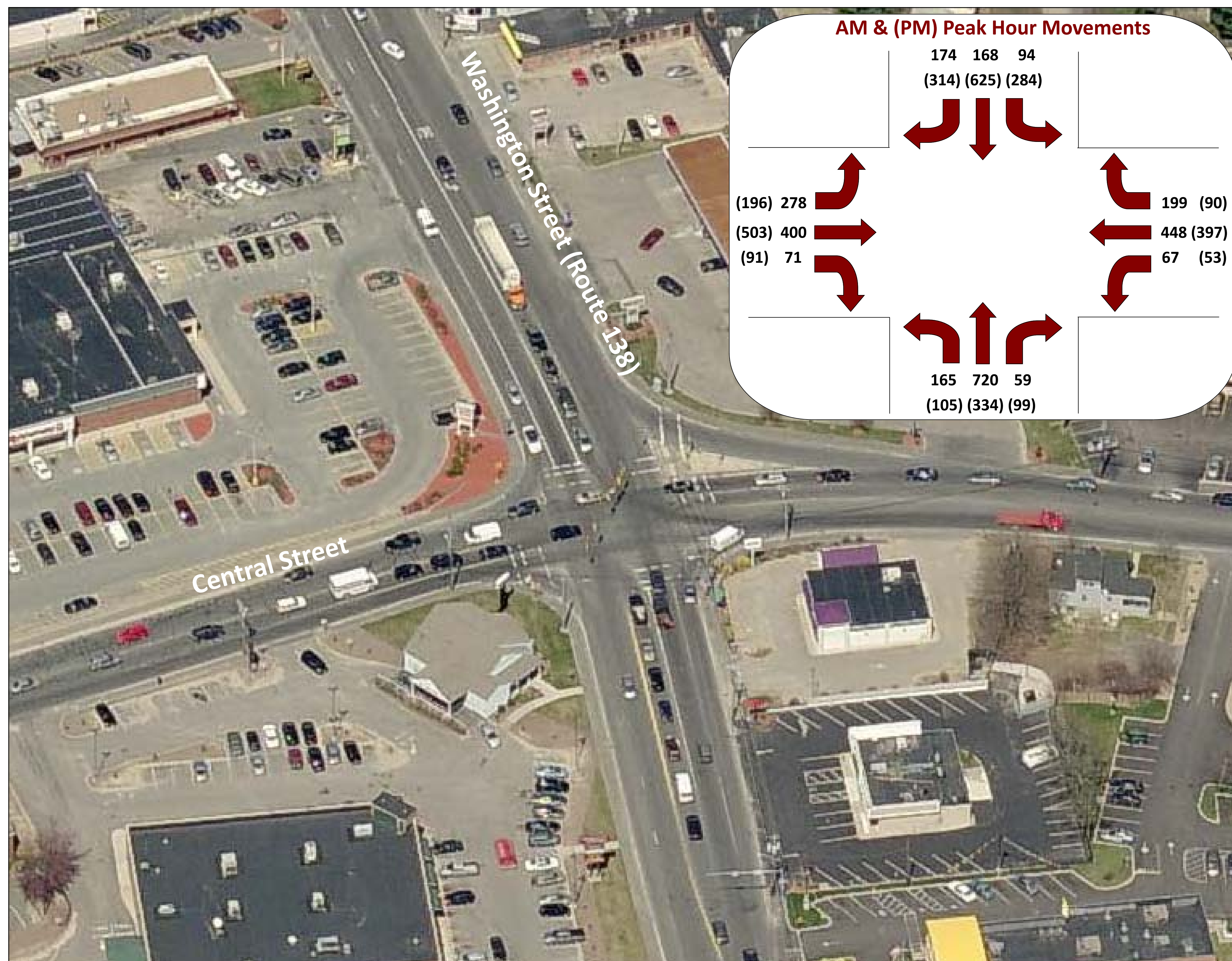
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Stoughton—Route 138 from Stoughton Square to the Canton Town Line

Corridor Intersections Analysis

Washington Street (Route 138) & Central Street



Intersection Identification

Major Street: Washington Street (Route 138)
Minor Street: Central Street
Traffic Control: Traffic Signal
Jurisdiction: MassDOT
Federal Aid Eligibility: Yes

Intersection Operation & Safety

Operations Analysis	Morning (AM)	Afternoon (PM)
Peak Hour	7:15-8:15 AM	4:45-5:45 PM
Peak Hour Volume	2,845	3,091
Peak Hour Factor	0.953	0.967
Level-of-Service	D	D
Average Delay (sec)	50.10	48.20

Safety Analysis

Crashes (2007-2009): 87	Crash Rate (2007-2009): 2.31
Property Damage Only: 71	MassDOT District 5 Crash Rate:
Injuries: 21	Unsignalized Intersection: 0.60
Fatalities: 0	Signalized Intersection: 0.77



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Stoughton—Route 138 from Stoughton Square to the Canton Town Line

Corridor Intersections Analysis

Washington Street (Route 138) & Stop & Shop



393 10 (1,143) (89)		AM & (PM) Peak Hour Movements
↓	↘	
↙	↘	26 (92)
↙	↘	29 (126)
↑	↘	
1,240 12 (557) (22)		

Intersection Identification

Major Street: Washington Street (Route 138)
Minor Street: Stop & Shop
Traffic Control: Traffic Signal
Jurisdiction: MassDOT
Federal Aid Eligibility: Yes

Intersection Operation & Safety

Operations Analysis	Morning (AM)	Afternoon (PM)
Peak Hour	7:15-8:15 AM	5:00-6:00 PM
Peak Hour Volume	1,712	2,030
Peak Hour Factor	0.949	0.918
Level-of-Service	A	B
Average Delay (sec)	3.60	14.50
Safety Analysis		
Crashes (2007-2009): 6	Crash Rate (2007-2009): 0.24	
Property Damage Only: 4	MassDOT District 5 Crash Rate:	
Injuries: 2	Unsignalized Intersection: 0.60	
Fatalities: 0	Signalized Intersection: 0.77	



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Stoughton—Route 138 from Stoughton Square to the Canton Town Line

Corridor Intersections Analysis

Washington Street (Route 138) & York Street



Intersection Identification

Major Street: Washington Street (Route 138)
Minor Street: York Street
Traffic Control: One Way Stop
Jurisdiction: MassDOT
Federal Aid Eligibility: Yes

Intersection Operation & Safety

Operations Analysis	Morning (AM)	Afternoon (PM)
Peak Hour	7:30-8:30 AM	4:15-5:15 PM
Peak Hour Volume	1,991	1,905
Peak Hour Factor	0.972	0.889
Level-of-Service		
<i>Washington Street (138) SB LT</i>	F	A
<i>York Street WB LT & RT</i>	F	F
Safety Analysis		
Crashes (2007-2009): 28	Crash Rate (2007-2009): 1.15	
<i>Property Damage Only: 19</i>	MassDOT District 5 Crash Rate:	
<i>Injuries: 14</i>	<i>Unsignalized Intersection: 0.60</i>	
<i>Fatalities: 0</i>	<i>Signalized Intersection: 0.77</i>	

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