

Lee Area Traffic Study
Key Intersections Capacity and Level of Service (LOS) analysis

2030 No-Build and Build Conditions without Improvements to traffic signals along Route 20

Intersection	No-Build/ Alternative 1 (TSM)		Alternative 3A		Alternative 5		Alternative 10	
	ADPV	LOS	ADPV	LOS	ADPV	LOS	ADPV	LOS
Main Street @ Center St*	>1000	F	78.6	F	>1000	F	168.6	F
Main St @ Price Chopper Dr*	13.8	B	11.0	B	13.0	B	11.3	B
Main St @ Park St*	>1000	F	>1000	F	>1000	F	196.3	F
Park St @ High St*	28.3	D	22.8	C	22.5	C	15.2	C
Park St @ Housatonic St*	>1000	F	>1000	F	>1000	F	582.7	F
Housatonic St @ I-90 Off Ramp	12.3	B	12.7	B	12.2	B	12.2	B
Housatonic St @ I-90 On Ramp & Route 102	19.8	B	20.1	C	18.2	B	19.7	B
Rout 20 @ Prime Outlets Dr	13.0	B	13.0	B	13.0	B	13.0	B

ADPV= Average Delay per Vehicle, in Seconds
LOS = Level of Service (A is excellent, E and F are undesirable)

* For STOP sign-controlled intersections, the conditions represent the left turn from the side street

= STOP sign controlled intersections

2030 No-Build and Build Conditions with Improvements
(Adding traffic signals: Main St @ Center St; Main St @ Park St; Park St @ Housatonic St)

Intersection	No-Build		Alternative 1 (TSM)		Alternative 3A		Alternative 5		Alternative 10	
	ADPV	LOS	ADPV	LOS	ADPV	LOS	ADPV	LOS	ADPV	LOS
Main Street @ Center St	>1000	F	17.6	B	8.1	A	15.1	B	8.7	A
Main St @ Price Chopper Dr*	13.8	B	13.8	B	11.0	B	13.0	B	11.3	B
Main St @ Park St	>1000	F	14.3	B	9.6	A	10.5	B	7.0	A
Park St @ High St*	28.3	D	29.3	D	28.6	D	23.2	C	15.2	C
Park St @ Housatonic St	>1000	F	32.2	C	33.0	C	31.2	C	14.5	B
Housatonic St @ I-90 Off Ramp	12.3	B	10.0	B	9.7	A	9.7	A	9.5	A
Housatonic St @ I-90 On Ramp & Route 102	19.8	B	15.0	B	14.8	B	14.2	B	14.9	B
Rout 20 @ Prime Outlets Dr	13.0	B	9.8	A	9.8	A	9.8	A	9.8	A

ADPV= Average Delay per Vehicle, in Seconds
LOS = Level of Service (A is excellent, E and F are undesirable)

* For STOP sign-controlled intersections, the conditions represent the left turn from the side street

= STOP sign controlled intersections

Level of Service Criteria

	Signalized Intersections	Unsignalized Intersections
<u>Level of Service</u>	<u>Average Delay per Vehicle (Sec)</u>	<u>Average Delay per Vehicle (Sec)</u>
A	<=10.0	<=10.0
B	>10.0 and <=20.0	>10.0 and <=15.0
C	>20.0 and <=35.0	>15.0 and <=25.0
D	>35.0 and <=55.0	>25.0 and <=35.0
E	>55.0 and <=80.0	>35.0 and <=50.0
F	>80.0	>50.0

Source: Highway Capacity Manual, Special Report 209, Transportation Research Board, National Research Council, Washington, D.C., 1998