

LEE AREA TRAFFIC STUDY (FULL ANALYSIS)

distance, acreage and effect on traffic

Alternative	Road Distance Linear Miles	Acreage					Change in traffic at Center S/ Rt 20 (West of Main St)		Change in traffic at Main S/ Rt 20 (South of Center St)		Change in traffic at Housatonic S/ Rt 20 (North of Exit Ramp)		Change in traffic at Exit 2	Change in VMT	Change in VHT	# of instances of being ranked #1 or #2 at reducing traffic and/or VMT and/or VHT (highest max=6)		
		Direct	100	200	500	1000	all Veh.	trucks	all Veh.	trucks	all Veh.	trucks						
1	3.71	29.70	90.11	91.33	281.51	493.66	na	na	na	na	na	na	na	na	na	0		
2A	0.92	7.31	24.75	27.33	64.33	124.32	332	36	-7.716	-926	1,342	138	na	-18.917	6	1,542		
3A	1.48	11.57	37.10	38.53	124.12	235.00	1,915	205	-6.711	-805	-959	-99	3	na	-19.020	5	1,588	
5	0.00	92.30	20.79	22.23	75.34	154.39	-469	-50	3	-781	-93	3	-202	-21	5	-40.867	4	-1,569
6B with interchange	5.83	195.12	149.64	150.73	459.37	790.70	-3,950	-423	1	-5,410	-649	2	-5,338	-550	1	-2,575	1	-71,317
8B	2.58	137.94	80.08	81.20	250.83	444.44	785	84	1.074	129	-273	-28	4	-830	4	-141,107	1	-2,757
Rev. 8B with Rt 8 40ft	23.92	472.26	394.44	395.32	1792.21	300.43	697	75	956	115	-341	-35	4	-651	4	-133,568	1	-2,897
10	1.23	117.40	44.73	45.99	145.60	268.53	-3,943	-422	2	-5,607	-672	1	-3,759	-387	2	-1,709	2	-57,563

environmental analysis

Alternative	Water Resources (lakes, wetlands) (Acres)				Water Resources (streams) (Linear Feet)				River Protection Area (200ft) (acres)				Floodplains		Floodways (# of floodplain crossings)		Stream / wetland Crossings (#)		Habitat (Acres)				BioMap Core Habitat			BioMap Supporting Natural Landscape			IWPA and Zone II (acres)				Zone A & B (acres)					Area of Critical Environmental Concern (acres)		CAPS	
	Direct	100	200	500	Direct	100	200	500	Direct	100	200	500	Direct	100	Direct	100	Direct	100	Direct	100	200	500	Direct	100	200	500	Direct	100	200	500	Direct	100	200	500	Direct	100 total					
1	0.24	2.41	5.36	30.32	610.73	1,148.23	1,183.65	3,614.35	2.69	8.04	8.35	47.14	4.05	2	6	3.98	12.40	14.61	0.90	2.90	3.05	0.01	1.00	4.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75				
2A	0.46	2.39	5.62	4.94	0.00	0.00	0.00	214.17	3.85	10.17	8.09	23.58	3.00	0	0	3.85	13.00	10.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
3A	0.72	3.14	6.42	16.53	68.46	712.60	787.60	2,064.97	3.16	10.65	12.50	52.26	2.89	1.00	2.00	5.06	18.20	18.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.42				
5	10.93	4.06	3.83	10.09	1,569.50	100.18	208.71	502.69	6.12	2.29	1.48	2.91	5.04	1.00	3.00	31.87	8.74	9.78	0.00	0.00	0.17	0.13	0.61	0.97	1.48	1.62	1.86	6.08	0.00	0.00	0.00	0.00	0.00	0.00	92.30	26.03					
6B w/interchange	1.29	6.90	8.38	21.22	7,532.75	22,387.94	9,526.68	23,581.33	29.45	11.37	10.32	30.33	17.48	3.00	11.00	39.77	24.91	20.94	0.66	3.22	3.59	7.70	9.87	9.81	4.67	4.43	3.92	4.99	8.42	8.32	8.31	21.46	0.00	231.71							
Rev. 8B with Rt 8 40ft	14.38	51.99	58.64	207.83	14,031.29	16,343.52	13,175.44	44,027.52	82.96	117.12	109.14	266.99	29.61	16.00	39.00	58.95	97.83	101.80	30.79	11.15	15.24	0.00	30.80	37.10	24.55	36.36	34.34	79.93	25.42	4.35	4.75	12.15	77.17	564.97							
10	9.35	7.35	7.49	20.38	4,154.12	1,808.21	946.81	4,159.28	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.52	33.91						

land use analysis, part 1

Alternative	Buildings				Residential Land Use (acres)								Multi-Family Residential (acres)				Residential (smaller than 1/4 acre) (acres)			
	Buildings Direct	Buildings 100	Buildings 200	Buildings 500	Direct	100	200	500	1000	Direct	100	200	500	1000	Direct	100	200	500	1000	
1	0	170	62	178	223	11.69	35.83	35.06	84.13	126.61	0.99	3.30	3.67	5.90	9.82	1.52	5.24	4.84	17.64	26.30
2A	2	69	40	85	190	0.84	2.12	2.39	19.48	76.67	0.00	0.00	0.00	0.00	0.00	0.00	0.15	1.16	12.91	22.95
3A	1	10	34	102	214	3.37	10.89	13.11	49.01	74.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	2.30	17.51
5	6	4	3	4	12	1.07	1.24	1.75	8.76	14.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6B with interchange	11	28	22	65	142	17.90	22.99	24.69	65.96	128.16	0.00	0.00	0.00	0.00	7.41	0.00	0.00	0.00	0.00	0.00
Rev. 8B with Rt 8 40ft	43	387	168	361	822	129.30	197.85	169.98	279.21	355.28	1.32	3.13	1.94	6.97	4.24	9.55	14.96	14.02	49.92	105.38
10	5	4	4	12	36	4.46	2.36	3.84	19.65	50.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Alternative	Residential (1/4 to 1/2 acre) (acres)				Residential (greater than 1/2 acre) (acres)					
	Direct	100	200	500	1000	Direct	100	200	500	1000
1	5.23	15.78	14.93	38.61	51.23	3.95	11.51	11.62	21.98	39.26
2A	0.84	1.97	1.23	4.53	47.73	0.00	0.00	0.00	2.94	6.94
3A	1.43	5.69	9.24	39.45	48.72	1.94	5.20	3.86	7.26	8.03
5	0.00	0.00	0.00	0.00	0.00	1.07	1.24	1.75	8.76	14.75
6B with interchange	1.04	2.54	3.05	7.23	29.74	16.86	20.45	21.64	58.73	91.02
Rev. 8B with Rt 8 40ft	28.86	40.76	34.21	49.98	71.13	89.27	139.30	119.90	172.46	174.55
10	0.80	1.07	1.43	4.58	20.08	3.66	1.29	2.41	15.07	30.52

land use analysis, part 2

Alternative	Commercial / Industrial Land (Developed not Residential) (acres)					Open Space (Acres)	Cultural (number) (parks, schools, playgrounds, cultural sites, golf courses)					Cultural (acres) (parks, schools, playgrounds, cultural sites, golf courses)					Historic Sites (#)					Prima Ag Soil in existing Ag land
	Direct	100	200	500	1000	Direct	100	200	500	1000	Direct	100	200	500	1000	Direct	100	200	500	1000	Direct	
1	7.55	24.22	19.96	29.71	9.05	0.00	0	0	3	2	1	0.01	13.54	13.73	44.50	76.54	0	3	1	0	1	0.00
2A	5.40	19.01	16.92	20.70	11.95	0.00	0	0	1	0	1	0.02	0.60	0.34	0.18	3.46	0	3	1	0	2	0.00
3A	0.00	0.94	4.26	17.38	51.47	0.00	0	0	0	0	1	0.00	0.00	0.00	0.05	4.37	0	1	0	0	0	0.47
5	0.00	0.00	0.00	0.00	0.06	4.83	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	1.13
6B with interchange	5.48	4.64	5.68	14.65	7.46	18.37	0	1	0	2	0	0.17	2.77	2.85	10.31	9.62	0	0	1	0	0	5.45
Rev. 8B with Rt 8 40ft	34.66	50.95	44.63	96.53	105.70	28.08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5.32
10	8.57	2.65	2.75	7.67	3.53	8.83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.13

sharp turns, slope and environmental justice

Alternative	Accidents		Sharp Turns		Slope > 8% (feet of road)			Slope > 8% & < 15% (acres)			Slope > 15% (acres)			Environmental Justice	
	Intersection	Streets	In Road	Intersections	Direct	100	200	Direct	100	200	Direct	100	200	Block Groups factors triggered	Block Groups w/ factors triggered
1	194	170	0	2	6,375	8.13	1.72	4	2	2	1	0	1	0	
2A	32	35	0	3	252	0.41	0	2	0	0	2	0	0	0	
3A	0	0	0	1	5,148	2.5	4.86	4	2	1	0	0	0	0	
5	0	0	0	0	Interchange	21.88	4.75	4	2	1	0	0	0	0	
6B with interchange	34	18	0	2	19,360	43.81	107.5	5	0	0	0	0	0	0	
Rev. 8B with Rt 8 40ft	375	93	74	0	51,864	203.83	78.52	15	3	3	3	3	3	3	
10	8	9	0	1	1,118	18.44	7.13	2	0	0	0	0	0	0	

Blue = Significant Positive Impacts

Red = Significant Negative Impacts