

APPENDIX F
RED POLICY AREA
CAPACITY ANALYSIS



Glenmont Forest

Levels of Service Summary ¹

Approach/ Lane Group	Policy Standard (s)	Existing Conditions		Background Conditions		Total Future Conditions	
		AM Peak Hour	PM Peak Hour	AM Peak Hour	PM Peak Hour	AM Peak Hour	PM Peak Hour
		Delay (s)	Delay (s)	Delay (s)	Delay (s)	Delay (s)	Delay (s)
1. Randolph Road/Livingston Street (Signalized)² - Red Zone Overall	120	5.7	5.7	5.7	5.7	5.7	5.9
2. Randolph Road/Georgia Avenue (Signalized)² - Red Zone Overall	120	72.1	53.5	81.9	59.9	116.8	72.3
3. Randolph Road/Glenmont Circle (Signalized)² - Red Zone Overall	120	19.1	58.9	19.7	58.9	49.8	60.7
4. Randolph Road/Residential Driveway (Unsignalized)² - Red Zone Overall	120	0.1	0.1	0.1	0.1	0.3	0.2
5. Randolph Road/Glenallen Avenue (Signalized)² - Red Zone Overall	120	29.5	18.9	38	22.8	43.0	24.4
6. Randolph Road/Middlevale Lane/Garden Gate Road (Signalized) - Orange Zone Overall	80	28.9	13.8	29.3	13.5	30.7	14.1
7. Georgia Avenue/Layhill Road (Signalized)² - Red Zone Overall	120	41.9	45	44.6	47.1	46.9	45.1
8. Georgia Avenue/Glenmont Circle (Unsignalized) - Orange Zone Overall	80	0.1	0.1	0.1	0.1	0.7	0.6
9. Georgia Avenue/Shorefield Road (Signalized) - Orange Zone Overall	80	11.9	17.9	12.8	19.6	13.9	20.7
10. Layhill Road/Glenallen Avenue (Signalized)² - Red Zone Overall	120	32.9	33.1	34.5	32.8	34.5	33.4
11. Georgia Avenue/Arcola Avenue (Signalized) - Orange Zone Overall	80	24.7	30.4	26.3	31.1	28.5	31.8
12. Glenallan Avenue/Eskine Avenue (Unsignalized)² - Red Zone Overall	120	0.0	0.1	0.0	0.1	0.9	0.5
13. Randolph Road/Heurich Road (Unsignalized) - Orange Zone Overall	80	0.5	0.9	0.5	1	0.4	0.9

Note(s):

1. Capacity analysis based on Highway Capacity Manual methodology, using Synchro 11.
2. Intersection is in Red policy area and does not require motor vehicle adequacy analysis.