Appendix C: Traffic Analysis: Year 2026 with Project Improvements and Mitigation

2026 No-Action vs. With-Action vs. Mitigation Traffic Levels of Service – Flatlands Avenue and East 108th Street

Intersection & Approach		2026 No-Action				2026 With-Action				2026 Mitigation				Mitigation Measures
		Mvt	V/C	Ctrl Delay[1]	LOS	Mvt	V/C	Ctrl Delay[1]	LOS	Mvt	V/C	Ctrl Delay[1]	LOS	
SIGNALIZED INTERSECTIONS														
Weekday AM Peak Hour														
Flatlands Avenue	EB	L	0.12	12.6	B	L	0.13	13.6	B	L	0.13	13.6	B	-Install "No Standing Anytime" regulations along the east curb of the NB approach for 75 feet to provide an additional travel lane. -Restripe the NB approach from one 20-foot wide travel lane with parking to one 10-foot wide right turn lane and one 10-foot wide shared left-through lane.
		TR	0.40	15.3	B	TR	0.42	15.6	B	TR	0.42	15.6	B	
	WB	L	0.34	16.2	B	L	0.37	17.2	B	L	0.37	17.2	B	
		TR	0.44	15.9	B	TR	0.49	16.7	B	TR	0.49	16.7	B	
East 108th Street	NB	LTR	0.99	89.7	F	LTR	1.00	94.0	F	LT	0.51	44.5	D	
		-	-	-	-	-	-	-	-	R	0.58	48.0	D	
	SB	LTR	0.54	45.9	D	LTR	0.56	46.9	D	LTR	0.48	43.4	D	
Overall Intersection[2]		-	-	**31.0**	**C**	-	-	**31.7**	**C**	-	-	**23.9**	**C**	
Weekday Midday Peak Hour														
Flatlands Avenue	EB	L	0.18	14.4	B	L	0.18	15.0	B	L	0.18	15.0	B	-Install "No Standing Anytime" regulations along the east curb of the NB approach for 75 feet to provide an additional travel lane. -Restripe the NB approach from one 20-foot wide travel lane with parking to one 10-foot wide right turn lane and one 10-foot wide shared left-through lane.
		TR	0.56	18.9	B	TR	0.58	19.4	B	TR	0.58	19.4	B	
	WB	L	0.47	25.5	C	L	0.50	27.5	C	L	0.50	27.5	C	
		TR	0.42	16.7	B	TR	0.45	17.0	B	TR	0.45	17.0	B	
East 108th Street	NB	LTR	0.94	80.6	F	LTR	0.96	84.5	F	LT	0.35	39.9	D	
		-	-	-	-	-	-	-	-	R	0.69	53.1	D	
	SB	LTR	0.64	49.6	D	LTR	0.66	51.0	D	LTR	0.55	44.7	D	
Overall Intersection[2]		-	-	**29.8**	**C**	-	-	**30.7**	**C**	-	-	**25.2**	**C**	

2026 No-Action vs. With-Action vs. Mitigation Traffic Levels of Service – Flatlands Avenue and East 108th Street

Intersection & Approach		2026 No-Action				2026 With-Action				2026 Mitigation				Mitigation Measures
		Mvt	V/C	Ctrl Delay[1]	LOS	Mvt	V/C	Ctrl Delay[1]	LOS	Mvt	V/C	Ctrl Delay[1]	LOS	
Weekday PM Peak Hour														
Flatlands Avenue	EB	L	0.19	17.3	B	L	0.20	18.4	B	L	0.18	18.4	B	-Install "No Standing Anytime" regulations along the east curb of the NB approach for 75 feet to provide an additional travel lane. -Restripe the NB approach from one 20-foot wide travel lane with parking to one 10-foot wide right turn lane and one 10-foot wide shared left-through lane. -Modify signal timing: Shift 4 sec of green time from EB/WB phase to EBL/WBL phase and 1 sec of green time from NB/SB to EBL/WBL. [EB/WB green time shifts from 67 sec to 63 sec. NB/SB green time shifts from 29 sec to 28 sec. EBL/WBL green time shifts from 9 sec to 14 sec.]
		TR	0.67	20.8	C	TR	0.71	21.0	C	TR	0.75	25.8	C	
	WB	L	0.82	52.3	D	L	0.91	66.5	E	L	0.78	47.7	D	
		TR	0.54	17.9	B	TR	0.57	18.6	B	TR	0.61	21.6	C	
East 108th Street	NB	LTR	0.86	66.7	E	LTR	0.89	70.3	E	LT	0.34	41.2	D	
		-	-	-	-	-	-	-	-	R	0.58	48.0	D	
	SB	LTR	0.84	65.9	E	LTR	0.88	71.9	E	LTR	0.72	53.7	D	
Overall Intersection[2]		-	-	**31.6**	**C**	-	-	**34.2**	**C**	-	-	**30.8**	**C**	

2026 No-Action vs. With-Action vs. Mitigation Traffic Levels of Service – Flatlands Avenue and East 108th Street

Intersection & Approach		2026 No-Action Mvt	V/C	Ctrl Delay[1]	LOS	2026 With-Action Mvt	V/C	Ctrl Delay[1]	LOS	2026 Mitigation Mvt	V/C	Ctrl Delay[1]	LOS	Mitigation Measures
Saturday Peak Hour														
Flatlands Avenue	EB	L	0.29	27.8	C	L	0.31	30.5	C	L	0.26	28.0	C	-Install "No Standing Anytime" regulations along the east curb of the NB approach for 75 feet to provide an additional travel lane. -Restripe the NB approach from one 20-foot wide travel lane with parking to one 10-foot wide right turn lane and one 10-foot wide shared left-through lane. -Modify signal timing: Shift 2 sec of green time from NB/SB phase to EBL/WBL phase. Shift 1 sec of green time from EB/WB phase to EBL/WBL phase. [NB/SB green time shifts from 29 sec to 27 sec. EB/WB green time shifts from 37 sec to 36 sec. EBL/WBL green time shifts from 9 sec to 12 sec.]
		TR	0.70	25.1	C	TR	0.75	26.8	C	TR	0.77	28.3	C	
	WB	L	1.04	91.6	F	L	1.15	128.7	F	L	0.99	75.4	E	
		TR	0.79	28.2	C	TR	0.85	31.2	C	TR	0.87	33.6	C	
East 108th Street	NB	LTR	0.97	65.6	E	LTR	1.00	71.3	E	LT	0.36	27.0	C	
		-	-	-	-	-	-	-	-	R	0.80	45.3	D	
	SB	LTR	0.60	31.4	C	LTR	0.62	32.2	C	LTR	0.57	31.4	C	
Overall Intersection[2]		-	-	**39.8**	**D**	-	-	**45.8**	**D**	-	-	**36.8**	**D**	

[1] Control delay is measured in seconds per vehicle.

[2] Overall intersection v/c ratio is the critical lane groups' v/c ratio.

[3] Impact worsened due to signal timing changes at nearby intersection

Denotes a significantly impacted movement

2026 No-Action vs. With-Action vs. Mitigation Traffic Levels of Service – Flatlands Avenue and Georgia Avenue

Intersection & Approach		2026 No-Action				2026 With-Action				2026 Mitigation				Mitigation Measures
		Mvt	V/C	Ctrl Delay[1]	LOS	Mvt	V/C	Ctrl Delay[1]	LOS	Mvt	V/C	Ctrl Delay[1]	LOS	
UNSIGNALIZED INTERSECTIONS														
Weekday AM Peak Hour														
Flatlands Avenue	EB	LT	-	1.4	A	L	0.10	8.6	A	-	-	-	-	-Mitigation not required.
		-	-	-	-	TR	0.31	9.7	A	-	-	-	-	
	WB	L	-	0.0	A	L	0.00	0.0	A	-	-	-	-	
		TR	-	0.0	A	TR	0.51	5.3	A	-	-	-	-	
Georgia Avenue	NB	-	-	-	-	LTR	0.15	34.4	C	-	-	-	-	
Overall Intersection[2]		-	-	**0.5**	**A**	-	-	**8.2**	**A**	-	-	-	-	
Weekday Midday Peak Hour														
Flatlands Avenue	EB	LT	-	1.2	A	L	0.11	9.8	A	-	-	-	-	-Mitigation not required.
		-	-	-	-	TR	0.49	13.1	B	-	-	-	-	
	WB	L	-	0.0	A	L	0.00	0.0	A	-	-	-	-	
		TR	-	0.0	A	TR	0.46	10.1	B	-	-	-	-	
Georgia Avenue	NB	-	-	-	-	LTR	0.10	31.4	C	-	-	-	-	
Overall Intersection[2]		-	-	**0.6**	**A**	-	-	**12.1**	**B**	-	-	-	-	

2026 No-Action vs. With-Action vs. Mitigation Traffic Levels of Service – Flatlands Avenue and Georgia Avenue

Intersection & Approach		2026 No-Action				2026 With-Action				2026 Mitigation				Mitigation Measures
		Mvt	V/C	Ctrl Delay[1]	LOS	Mvt	V/C	Ctrl Delay[1]	LOS	Mvt	V/C	Ctrl Delay[1]	LOS	
Weekday PM Peak Hour														
Flatlands Avenue	EB	LT	-	1.7	A	L	0.15	7.9	A	-	-	-	-	-Mitigation not required.
		-	-	-	-	TR	0.58	11.1	B	-	-	-	-	
	WB	L	-	0.0	A	L	0.00	0.0	A	-	-	-	-	
		TR	-	0.0	A	TR	0.46	17.5	B	-	-	-	-	
Georgia Avenue	NB	-	-	-	-	LTR	0.69	52.4	D	-	-	-	-	
Overall Intersection[2]		-	-	**0.9**	**A**	-	-	**17.7**	**B**	-	-	-	-	
Saturday Peak Hour														
Flatlands Avenue	EB	LT	-	1.2	A	L	0.13	8.8	A	-	-	-	-	-Mitigation not required.
		-	-	-	-	TR	0.55	11.3	B	-	-	-	-	
	WB	L	-	0.0	A	L	0.00	0.0	A	-	-	-	-	
		TR	-	0.0	A	TR	0.59	10.9	B	-	-	-	-	
Georgia Avenue	NB	-	-	-	-	LTR	0.15	25.2	C	-	-	-	-	
Overall Intersection[2]		-	-	**0.5**	**A**	-	-	**11.5**	**B**	-	-	-	-	

2026 No-Action vs. With-Action vs. Mitigation Traffic Levels of Service – Flatlands Avenue and Georgia Avenue

Intersection & Approach		2026 No-Action				2026 With-Action				2026 Mitigation				Mitigation Measures
		Mvt	V/C	Ctrl Delay[1]	LOS	Mvt	V/C	Ctrl Delay[1]	LOS	Mvt	V/C	Ctrl Delay[1]	LOS	
Sunday Peak Hour														
Flatlands Avenue	EB	LT	-	1.8	A	L	0.64	33.3	C	-	-	-	-	-Mitigation not required.
		-	-	-	-	TR	0.77	25.0	C	-	-	-	-	
	WB	L	-	0.0	A	L	0.00	0.0	A	-	-	-	-	
		TR	-	0.0	A	TR	0.56	17.8	B	-	-	-	-	
Georgia Avenue	NB	-	-	500+	F	LT	0.26	16.6	B	-	-	-	-	
		-	-	-	-	R	0.49	20.7	C	-	-	-	-	
Overall Intersection[2]		-	-	**500+**	**F**	-	-	**22.0**	**C**	-	-	-	-	

[1] Control delay is measured in seconds per vehicle.

[2] Overall intersection v/c ratio is the critical lane groups' v/c ratio.

[3] Impact worsened due to signal timing changes at nearby intersection

Denotes a significantly impacted movement