

## **Appendix H: Mitigation**

# **Traffic Mitigation**

Table H-1

2032 No Action, With Action, and Mitigation Conditions Level of Service Analysis  
Weekday AM Peak Hour

Intersection	2032 No Action				2032 With Action				2032 Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections												
Bailey Avenue and West 225th Street/West Kingsbridge Road												
Eastbound	L	1.26	233.1	F	L	1.35	273.5	F+	L	1.26	232.6	F
Eastbound	TR	0.97	69.1	E	TR	0.98	71.4	E	TR	0.96	64.0	E
Westbound	L	0.41	31.2	C	L	0.42	33.2	C	L	0.39	29.8	C
Westbound	TR	1.16	111.0	F	TR	1.21	128.8	F+	TR	1.17	112.5	F
Northbound	DefL	0.61	57.8	E	DefL	0.61	57.8	E	DefL	0.61	57.8	E
Northbound	TR	0.14	15.1	B	TR	0.14	15.1	B	TR	0.14	15.6	B
Southbound	L	0.47	28.7	C	L	0.54	30.9	C	L	0.55	31.9	C
Southbound	T	0.46	26.8	C	T	0.46	26.8	C	T	0.47	27.7	C
Southbound	R	1.09	143.0	F	R	1.09	143.0	F	R	1.09	143.0	F
	Intersection		82.0	F	Intersection		89.2	F	Intersection		81.0	F
Sedgwick Avenue and West Kingsbridge Road												
Eastbound	L	0.29	12.3	B	L	0.30	12.6	B	L	0.31	15.3	B
Eastbound	TR	0.47	17.4	B	TR	0.50	17.9	B	TR	0.52	19.6	B
Westbound	L	0.63	20.4	C	L	0.66	21.7	C	L	0.68	21.2	C
Westbound	TR	0.57	12.3	B	TR	0.59	12.4	B	TR	0.61	14.8	B
Northbound	LTR	0.50	36.0	D	LTR	0.55	37.3	D	LTR	0.52	35.0	D
Southbound	LTR	1.09	117.4	F	LTR	1.17	146.8	F+	LTR	1.09	114.5	F
	Intersection		33.8	C	Intersection		38.9	D	Intersection		34.8	C
Sedgwick Avenue and West Fordham Road												
Eastbound	L	1.11	109.1	F	L	1.22	147.3	F+	Unmitigated			
Eastbound	TR	1.08	78.9	E	TR	1.13	100.6	F+				
Westbound	LT	0.65	30.0	C	LT	0.67	30.5	C				
Westbound	R	0.36	25.6	C	R	0.36	25.6	C				
Northbound	LTR	0.98	85.4	F	LTR	1.00	90.2	F+				
Southbound	L	0.98	91.4	F	L	1.00	96.0	F+				
Southbound	T	1.07	113.9	F	T	1.07	113.9	F				
Southbound	R	0.75	45.4	D	R	0.75	45.6	D				
	Intersection		68.4	E	Intersection		78.9	E				
Webb Avenue and West Kingsbridge Road												
Eastbound	TR	1.08	85.4	F	TR	1.16	116.7	F+	TR	1.09	84.9	F
Westbound	LT	1.09	56.8	E	LT	1.10	62.4	E+	LT	1.07	49.9	D
Northbound	L	0.40	39.8	D	L	0.40	39.8	D	L	0.45	44.3	D
Northbound	R	0.11	22.4	C	R	0.11	22.4	C	R	0.12	24.4	C
Southbound	LTR	0.54	42.9	D	LTR	0.54	42.9	D	LTR	0.60	47.9	D
	Intersection		66.7	E	Intersection		83.8	F	Intersection		64.9	E
University Avenue and West Kingsbridge Road												
Eastbound	LTR	0.76	38.9	D	LTR	0.86	40.9	D	Unmitigated			
Westbound	LTR	1.13	96.0	F	LTR	1.32	177.4	F+				
Northbound	L	0.90	88.6	F	L	0.92	93.9	F+				
Northbound	TR	0.73	53.1	D	TR	0.83	62.1	E+				
Southbound	LTR	0.76	55.5	E	LTR	0.81	60.9	E+				
	Intersection		68.7	E	Intersection		103.5	F				
University Avenue and West Fordham Road												
Eastbound	T	0.77	35.3	D	T	0.77	35.3	D	Unmitigated			
Eastbound	R	0.64	41.6	D	R	0.64	41.6	D				
Westbound	L	1.08	119.4	F	L	1.08	119.4	F				
Westbound	T	0.61	23.7	C	T	0.61	23.7	C				
Westbound	R	0.19	17.3	B	R	0.19	17.3	B				
Northbound	L	0.75	54.8	D	L	0.80	61.1	E+				
Northbound	T	0.56	37.4	D	T	0.61	39.5	D				
Northbound	R	0.50	35.9	D	R	0.50	35.9	D				
Southbound	L	0.34	32.4	C	L	0.36	32.9	C				
Southbound	T	0.48	33.4	C	T	0.52	34.4	C				
Southbound	R	0.57	37.8	D	R	0.63	40.6	D				
	Intersection		39.1	D	Intersection		39.8	D				
Reservoir Avenue and West 195th Street												
Westbound	LTR	0.77	41.2	D	LTR	0.98	75.0	E+	LTR	0.89	52.8	D
Northbound	LTR	0.36	12.6	B	LTR	0.53	15.4	B	LTR	0.57	18.1	B
Southbound	LTR	0.69	19.7	B	LTR	0.84	26.5	C	LTR	0.90	33.7	C
	Intersection		22.2	C	Intersection		33.6	C	Intersection		32.8	C
Jerome Avenue and East 195th Street												
Eastbound	LR	0.67	52.3	D	LR	1.02	105.2	F+	Unmitigated			
Northbound	LT	0.80	30.3	C	LT	1.12	98.3	F+				
Southbound	TR	0.83	29.3	C	TR	0.95	43.9	D				
	Intersection		34.5	C	Intersection		76.0	E				
Jerome Avenue and West Kingsbridge Road/East Kingsbridge Road												
Eastbound	LTR	1.04	83.9	F	LTR	1.08	96.0	F+	Unmitigated			
Westbound	LTR	0.82	24.7	C	LTR	0.92	33.2	C				
Northbound	LTR	0.84	57.7	E	LTR	0.88	63.7	E+				
Southbound	LTR	1.17	125.6	F	LTR	1.44	235.0	F+				
	Intersection		67.7	E	Intersection		97.5	F				

**Table H-1**

**2032 No Action, With Action, and Mitigation Conditions Level of Service Analysis**  
**Weekday AM Peak Hour**

Intersection	2032 No Action				2032 With Action				2032 Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS
<b>Elm Place/Bainbridge Avenue/East Kingsbridge Road and East Fordham Road</b>												
Eastbound	LT	0.81	22.9	C	LT	0.81	22.9	C	Unmitigated			
Eastbound	R	0.02	7.9	A	R	0.02	7.9	A				
Westbound	T	1.09	85.4	F	T	1.09	85.4	F				
Westbound	R	1.11	106.0	F	R	1.20	138.9	F+				
Southbound	L	1.13	149.1	F	L	1.24	189.4	F+				
Southbound	LT	0.78	51.3	D	LT	0.81	56.9	E+				
Intersection		69.2		E	Intersection		78.5		E			
<b>East Kingsbridge Road/East 194th Street and Valentine Avenue</b>												
Eastbound	T	0.21	36.5	D	T	0.21	36.4	D	Unmitigated			
Eastbound	R	0.74	53.4	D	R	0.80	58.2	E				
Eastbound	R	0.32	39.3	D	R	0.32	39.4	D				
Northbound	L	1.08	89.1	F	L	1.17	121.6	F+				
Northbound	LTR	0.71	19.8	B	LTR	0.75	22.3	C				
Southbound	L	0.20	31.7	C	L	0.20	31.7	C				
Southbound	TR	0.66	53.8	D	TR	0.66	53.8	D				
Intersection		55.5		E	Intersection		66.5		E			
<b>Unsignalized Intersections</b>												
<b>Reservoir Avenue/Grand Avenue and West Kingsbridge Road</b>												
Eastbound	LTR	0.38	11.2	B	LTR	0.76	38.1	E+	Unmitigated			
Westbound	LTR	0.03	1.0	A	LTR	0.03	1.0	A				

**Notes:**  
L = Left Turn, T = Through, R = Right Turn, LOS = Level of Service, DefL = Defacto Left Turn, + Denotes significant adverse traffic impact.  
This table is new for the FEIS.

**2032 No Action, With Action, and Mitigation Conditions Level of Service Analysis**  
**Weekday Midday Peak Hour**

**Notes:**  
L = Left Turn, T = Through, R = Right Turn, LOS = Level of Service, DefL = Defacto Left Turn, + Denotes significant adverse traffic impact.  
This table is new for the FEIS.

Table H-3

2032 No Action, With Action, and Mitigation Conditions Level of Service Analysis

Weekday PM Peak Hour

Intersection	2032 No Action				2032 With Action				2032 Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS
Signalized Intersections												
Bailey Avenue and West 225th Street/West Kingsbridge Road												
Eastbound	L	1.10	150.3	F	L	1.22	195.3	F+	L	1.11	152.5	F
Eastbound	TR	0.75	39.8	D	TR	0.77	40.4	D	TR	0.73	37.2	D
Westbound	L	0.19	20.0	B	L	0.19	21.4	C	L	0.18	18.7	B
Westbound	TR	0.87	30.7	C	TR	0.93	38.7	D	TR	0.89	31.4	C
Northbound	DefL	0.82	83.2	F	DefL	0.82	83.2	F	DefL	0.82	83.2	F
Northbound	TR	0.22	19.3	B	TR	0.22	19.3	B	TR	0.23	20.5	C
Southbound	L	0.49	32.0	C	L	0.51	32.8	C	L	0.54	35.1	D
Southbound	T	0.44	29.0	C	T	0.44	29.0	C	T	0.46	30.7	C
Southbound	R	1.26	213.4	F	R	1.26	213.4	F	R	1.26	213.4	F
	Intersection		55.4	E	Intersection		59.8	E	Intersection		54.9	D
Sedgwick Avenue and West Kingsbridge Road												
Eastbound	L	0.30	6.6	A	L	0.31	6.6	A	L	0.31	6.6	A
Eastbound	TR	0.42	4.0	A	TR	0.43	3.8	A	TR	0.44	3.8	A
Westbound	L	0.52	20.4	C	L	0.54	20.1	C	L	0.55	21.4	C
Westbound	TR	0.54	18.6	B	TR	0.56	19.0	B	TR	0.57	20.0	B
Northbound	LTR	0.36	33.3	C	LTR	0.41	34.2	C	LTR	0.40	33.2	C
Southbound	LTR	0.88	63.5	E	LTR	0.91	68.7	E+	LTR	0.89	63.7	E
	Intersection		22.9	C	Intersection		24.0	C	Intersection		23.5	C
Sedgwick Avenue and West Fordham Road												
Eastbound	L	0.85	39.2	D	L	0.91	48.7	D	L	0.92	52.8	D
Eastbound	TR	0.76	21.7	C	TR	0.84	26.6	C	TR	0.85	28.1	C
Westbound	LT	0.67	29.8	C	LT	0.68	30.3	C	LT	0.70	31.3	C
Westbound	R	0.47	27.7	C	R	0.47	27.7	C	R	0.48	28.7	C
Northbound	LTR	1.09	120.2	F	LTR	1.12	129.1	F+	LTR	1.07	111.6	F
Southbound	L	1.10	133.8	F	L	1.13	143.7	F+	L	1.09	127.8	F
Southbound	T	1.07	117.7	F	T	1.07	117.7	F	T	1.04	107.8	F
Southbound	R	0.80	54.0	D	R	0.80	54.0	D	R	0.78	51.2	D
	Intersection		52.7	D	Intersection		56.4	E	Intersection		53.8	D
University Avenue and West Kingsbridge Road												
Eastbound	LTR	0.83	28.1	C	LTR	0.97	42.8	D	Unmitigated			
Westbound	DefL	---	---	---	DefL	1.23	167.0	F+				
Westbound	TR	---	---	---	TR	0.95	47.6	D				
Westbound	LTR	0.96	48.9	D	LTR	---	---	---				
Northbound	L	0.74	61.2	E	L	0.77	65.3	E				
Northbound	TR	0.72	52.1	D	TR	0.80	59.0	E+				
Southbound	LTR	0.53	42.8	D	LTR	0.56	44.2	D				
	Intersection		41.4	D	Intersection		58.5	E				
University Avenue and West Fordham Road												
Eastbound	T	0.71	35.3	D	T	0.71	35.3	D	T	0.73	36.5	D
Eastbound	R	0.60	41.4	D	R	0.60	41.4	D	R	0.62	43.6	D
Westbound	L	0.59	29.6	C	L	0.59	29.6	C	L	0.60	30.9	C
Westbound	T	0.51	19.8	B	T	0.51	19.8	B	T	0.52	20.5	C
Westbound	R	0.17	15.9	B	R	0.17	15.9	B	R	0.18	16.5	B
Northbound	L	0.63	46.5	D	L	0.69	51.9	D	L	0.66	48.7	D
Northbound	T	0.76	52.3	D	T	0.81	57.8	E+	T	0.79	54.7	D
Northbound	R	0.60	40.3	D	R	0.60	40.3	D	R	0.58	38.8	D
Southbound	L	0.61	45.2	D	L	0.63	47.0	D	L	0.61	44.6	D
Southbound	T	0.47	34.5	C	T	0.53	36.0	D	T	0.52	35.0	C
Southbound	R	0.52	37.2	D	R	0.58	39.3	D	R	0.56	37.9	D
	Intersection		33.4	C	Intersection		34.6	C	Intersection		34.5	C
Reservoir Avenue and West 195th Street												
Westbound	LTR	0.82	44.1	D	LTR	1.22	151.1	F+	Unmitigated			
Northbound	LTR	0.30	11.8	B	LTR	0.39	12.9	B				
Southbound	LTR	0.60	15.6	B	LTR	0.68	17.3	B				
	Intersection		22.2	C	Intersection		33.6	C				
Jerome Avenue and East 195th Street												
Eastbound	LR	0.65	50.3	D	LR	1.11	130.2	F+	Unmitigated			
Northbound	LT	0.79	39.0	D	LT	1.04	80.9	F+				
Southbound	TR	0.90	38.9	D	TR	1.08	81.3	F+				
	Intersection		41.3	D	Intersection		93.9	F				

**Table H-3**

**2032 No Action, With Action, and Mitigation Conditions Level of Service Analysis**  
**Weekday PM Peak Hour**

Intersection	2032 No Action				2032 With Action				2032 Mitigation			
	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS	Lane Group	v/c Ratio	Delay (sec)	LOS
Jerome Avenue and West Kingsbridge Road/East Kingsbridge Road												
Eastbound	LTR	1.14	116.3	F	LTR	1.17	129.6	F+	Unmitigated			
Westbound	LTR	0.75	46.8	D	LTR	0.82	52.2	D				
Northbound	LTR	0.82	53.2	D	LTR	0.87	59.9	E+				
Southbound	LTR	1.04	89.3	F	LTR	1.40	224.2	F+				
Intersection		80.8		F	Intersection		114.6					
Grand Concourse and East Kingsbridge Road												
Eastbound	TR	0.77	67.8	E	TR	0.81	70.7	E	TR	0.81	69.7	E
Westbound	TR	0.38	21.7	C	TR	0.39	21.6	C	TR	0.39	24.2	C
Northbound	L	1.07	147.6	F	L	1.10	157.0	F+	L	1.03	135.0	F
Northbound	T	0.73	9.2	A	T	0.73	8.9	A	T	0.75	10.3	B
Northbound	TR	0.54	21.1	C	TR	0.54	21.1	C	TR	0.55	22.1	C
Southbound	L	0.33	58.6	E	L	0.33	58.4	E	L	0.31	56.8	E
Southbound	T	0.46	41.7	D	T	0.46	41.6	D	T	0.47	45.2	D
Southbound	TR	0.74	50.5	D	TR	0.75	50.7	D	TR	0.76	53.9	D
Intersection		34.3		C	Intersection		35.5		D	Intersection		C
Elm Place/Bainbridge Avenue/East Kingsbridge Road and East Fordham Road												
Eastbound	LT	0.72	18.4	B	LT	0.72	18.4	B	Unmitigated			
Eastbound	R	0.07	8.5	A	R	0.07	8.5	A				
Westbound	T	1.09	84.1	F	T	1.09	86.8	F				
Westbound	R	1.22	157.6	F	R	1.31	191.5	F+				
Southbound	L	0.69	72.8	E	L	0.77	79.6	E+				
Southbound	LT	0.70	73.2	E	LT	0.78	81.1	F+				
Intersection		68.6		E	Intersection		75.7		E			
East Kingsbridge Road/East 194th Street and Valentine Avenue												
Eastbound	T	0.29	37.6	D	T	0.29	37.4	D	Unmitigated			
Eastbound	R	0.69	50.9	D	R	0.78	56.8	E+				
Eastbound	R	0.39	39.6	D	R	0.39	39.4	D				
Northbound	L	1.10	105.1	F	L	1.19	138.3	F+				
Northbound	R	0.17	6.5	A	R	0.17	6.2	A				
Southbound	L	0.17	31.1	C	L	0.17	31.1	C				
Southbound	TR	0.72	57.1	E	TR	0.72	57.1	E				
Intersection		61.5		E	Intersection		72.7		E			
Notes: L = Left Turn, T = Through, R = Right Turn, LOS = Level of Service, DefL = Defacto Left Turn, + Denotes significant adverse traffic impact. This table is new for the FEIS.												

**2032 No Action, With Action, and Mitigation Conditions Level of Service Analysis**  
**Saturday Midday/Afternoon Peak Hour**

**Notes:**  
L = Left Turn, T = Through, R = Right Turn, LOS = Level of Service, DefL = Defacto Left Turn, + Denotes significant adverse traffic impact.  
This table is new for the FEIS.