Appendix L:
Mitigation

Traffic

Traffic Tables

Table MA-T1

2033 No Action vs With Action vs With Action with Mitigation Conditions Level of Service Analysis

Signalized Intersections

#	Intersection & Approach	Weekday AM Peak Hour															Weekday Midday Peak Hour															Weekday PM Peak Hour														
		2033 No Action					2033 With Action						2033 With Action with Mitigation						2033 No Action					2033 With Action						2033 With Action with Mitigation						2033 No Action					2033 With Action						2033 With Action with Mitigation					
		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	
	FDR Dr Srv Rd/E 34th St																																												
1	Eastbound	L	1.51	269.2	F	165	L	1.57	299.0	F	173	+	L	1.48	257.5	F	165		L	1.48	247.4	F	172	L	1.56	279.8	F	179	+	L	1.56	279.8	F	179	U	L	1.64	318.2	F	194	L	1.79	385.8	F	211	+	L	1.79	385.8	F	211	U
		LTR	1.34	191.6	F	194	LTR	1.34	194.8	F	190	+	LTR	1.28	164.4	F	175		LTR	1.41	213.4	F	209	LTR	1.44	226.1	F	206	+	LTR	1.44	226.1	F	206	U	LTR	1.48	244.2	F	254	LTR	1.50	256.7	F	250	+	LTR	1.50	256.7	F	250	U
		R	1.02	43.7	D	186	R	1.03	48.7	D	185	+	R	1.04	52.7	D	186	U	R	0.75	10.1	B	70	R	0.77	10.1	B	68		R	0.77	10.1	B	68		R	0.83	12.1	B	89	R	0.85	12.2	B	86		R	0.85	12.2	B	86	
	Westbound	LTR	0.02	29.9	C	12	LTR	0.02	29.9	C	12		LTR	0.02	29.1	C	12		LTR	0.05	31.9	C	18	LTR	0.05	31.9	C	18		LTR	0.05	31.9	C	18		LTR	0.04	31.8	C	16	LTR	0.04	31.8	C	16		LTR	0.04	31.8	C	16	
	Northbound	L	0.57	24.0	C	126	L	0.58	24.4	C	129		L	0.60	25.7	C	133		L	0.71	29.7	C	210	L	0.71	30.1	C	212		L	0.71	30.1	C	212		L	1.14	107.5	F	542	L	1.16	113.5	F	551	+	L	1.16	113.5	F	551	U
		LTR	0.84	27.2	C	240	LTR	0.87	30.0	C	258		LTR	0.89	34.4	C	270		LTR	0.93	39.8	D	330	LTR	0.95	44.8	D	346		LTR	0.95	44.8	D	346		LTR	0.96	39.2	D	437	LTR	0.98	43.3	D	454		LTR	0.98	43.3	D	454	
	Southbound	LTR	0.99	35.1	D	131	LTR	1.00	37.0	D	130		LTR	1.00	37.0	D	130		LTR	1.07	58.5	E	144	LTR	1.08	63.6	E	142	+	LTR	1.08	63.2	E	163	U	LTR	0.91	25.9	C	118	LTR	0.92	26.4	C	117		LTR	0.92	27.3	C	127	
		Intersection		80.9	F		Intersection		87.2	F			Intersection		80.0	E			Intersection		83.5	F		Intersection		91.8	F			Intersection		91.7	F			Intersection		88.2	F		Intersection		99.0	F			Intersection		99.2	F		
2	FDR Dr Srv Rd/E 35th St																																												
	Westbound	LTR	0.14	27.1	C	38	LTR	0.14	27.1	C	38		LTR	0.14	27.1	C	38		LTR	0.12	26.5	C	35	LTR	0.12	26.5	C	35		LTR	0.12	26.5	C	35		LTR	0.13	26.9	C	35	LTR	0.13	26.9	C	35		LTR	0.13	26.9	C	35	
	Northbound	L	0.77	39.2	D	136	L	0.79	39.8	D	137		L	0.79	39.6	D	136		L	0.47	39.3	D	73	L	0.49	39.6	D	74		L	0.51	40.5	D	74		L	0.88	37.2	D	148	L	0.90	38.7	D	148		L	0.95	42.7	D	151	
		T	0.81	29.8	C	213	T	0.84	30.8	C	215		T	0.84	31.1	C	217		T	0.87	33.8	C	215	T	0.92	35.6	D	218		T	0.89	34.4	C	217		T	1.34	184.1	F	414	T	1.40	208.8	F	415	+	T	1.35	188.5	F	406	U
	Southbound	TR	0.99	55.5	E	437	TR	1.01	58.8	E	446		TR	1.01	58.8	E	446		TR	1.06	74.7	E	503	TR	1.07	79.2	E	512	+	TR	1.04	67.1	E	501		TR	0.99	55.7	E	448	TR	1.01	59.8	E	457	+	TR	0.98	51.0	D	447	
		Intersection		46.6	D		Intersection		48.7	D			Intersection		48.8	D			Intersection		60.7	E		Intersection		63.8	E			Intersection		55.8	E			Intersection		91.7	F		Intersection		102.4	F			Intersection		92.2	F		
3	FDR Dr Srv Rd/E 37th St																																												
	Southbound	TR	0.81	17.9	B	334	TR	0.83	18.7	B	350		TR	0.83	18.7	B	350		TR	0.84	19.5	B	370	TR	0.86	20.4	C	384		TR	0.86	20.4	C	384		TR	0.97	32.2	C	553	TR	0.98	35.4	D	569		TR	0.98	35.4	D	569	
		Intersection		17.9	B		Intersection		18.7	B			Intersection		18.7	B			Intersection		19.5	B		Intersection		20.4	C			Intersection		20.4	C			Intersection		32.2	C		Intersection		35.4	D			Intersection		35.4	D		
4	First Ave/E 30th St																																												
	Eastbound	L	0.97	64.3	E	253	L	0.98	66.4	E	256		L	0.98	66.4	E	256		L	1.00	70.0	E	239	L	1.01	71.8	E	241		L	0.96	59.0	E	232		L	0.94	55.3	E	268	L	0.95	56.7	E	271		L	0.91	49.0	D	262	
	Northbound	T	1.56	292.3	F	691	T	1.58	301.7	F	702	+	T	1.58	301.7	F	702	U	T	1.11	110.4	F	462	T	1.13	117.7	F	472	+	T	1.09	101.8	F	464		T	1.82	411.7	F	852	T	1.85	423.8	F	865	+	T	1.78	393.4	F	856	
		T	0.86	26.6	C	314	T	0.86	26.7	C	315		T	0.86	26.7	C	315		T	0.70	20.2	C	250	T	0.71	20.3	C	253		T	0.73	21.5	C	260		T	0.69	19.6	B	262	T	0.69	19.6	B	261		T	0.70	20.6	C	268	
		R	1.01	89.5	F	263	R	1.01	89.5	F	263		R	1.01	89.5	F	263		R	0.66	29.4	C	174	R	0.66	29.4	C	174		R	0.68	31.7	C	179		R	0.51	22.4	C	97	R	0.51	22.4	C	97		R	0.53	23.7	C	100	
		Intersection		101.1	F		Intersection		104.2	F			Intersection		104.2	F			Intersection		48.4	D		Intersection		50.3	D			Intersection		45.2	D			Intersection		128.0	F		Intersection		132.3	F			Intersection		123.3	F		
5	First Ave/E 34th St																																												
	Eastbound	L	0.55	9.7	A	26	L	0.57	9.9	A	26		L	0.57	9.4	A	25		L	0.98	41.5	D	29	L	0.98	41.5	D	27		L	0.98	41.6	D	29		L	0.99	58.4	E	49	L	0.99	45.0	D	45		L	0.99	44.3	D	47	
	Westbound	T	1.26	132.1	F	486	T	1.28	143.5	F	485	+	T	1.28	142.5	F	523	U	T	1.30	144.5	F	419	T	1.34	162.9	F	425	+	T	1.34	164.2	F	443	U	T	1.16	89.4	F	449	T	1.21	107.0	F	451	+	T	1.21	107.1	F	468	U
		T	0.74	44.1	D	203	T	0.77	45.4	D	210		T	0.77	45.2	D	206		T	1.33	172.1	F	477	T	1.36	187.4	F	487	+	T	1.36	187.4	F	487	U	T	1.25	134.6	F	309	T	1.29	151.3	F	320	+	T	1.29	151.3	F	320	U
		R	0.92	73.8	E	158	R	0.92	73.0	E	155		R	0.92	72.3	E	152		R	0.79	30.3	C	79	R	0.79	29.9	C	76		R	0.79	29.9	C	76		R	1.25	137.8	F	159	R	1.25	138.0	F	157		R	1.25	138.0	F	157	
	Northbound	L	0.64	35.6	D	140	L	0.65	36.3	D	144		L	0.65	36.3	D	144		L	0.71	38.9	D	155	L	0.75	42.4	D	168		L	0.75	42.4	D	168		L	0.81	48.8	D	184	L	0.81	49.4	D	185		L	0.81	49.4	D	185	
		T	0.97	45.1	D	330	T	0.97	45.1	D	330		T	0.97	45.1	D	330		T	0.88	33.0	C	281	T	0.88	33.1	C	282		T	0.88	33.1	C	282		T	1.06	67.8	E	390	T	1.06	68.4	E	391		T	1.06	68.4	E	391	
		R	1.27	168.6	F	498	R	1.28	173.4	F	503	+	R	1.28	173.4	F	503	U	R	1.05	85.1	F	379	R	1.06	88.2	F	383	+	R	1.06	88.2	F	383	U	R	1.03	81.0	F	369	R	1.04	84.1	F	374	+	R	1.04	84.1	F	374	U
		Intersection		84.5	F		Intersection		88.4	F			Intersection		88.1	F			Intersection		90.4	F		Intersection		98.6	F			Intersection		99.0	F			Intersection		86.6	F		Intersection		92.7	F			Intersection		92.6	F		
6	QMT Approach St/E 34th St																																												
	Eastbound	L	0.54	18.2	B	75	L	0.56	19.2	B	80		L	0.56	18.0	B	75		L	0.63	24.4	C	88	L	0.65	24.9	C	88		L	0.65	23.3	C	92		L	0.56	22.6	C	88	L	0.58	23.3	C	90		L	0.58	21.7	C	97	
		TR	1.13	76.4	E	772	TR	1.16	85.8	F	760	+	TR	1.11	65.3	E	747		TR	1.19	101.7	F	520	TR	1.22	115.8	F	520	+	TR	1.20	103.1	F	538		TR	1.03	39.9	D	532	TR	1.07	52.1	D	530	+	TR	1.05	43.6	D	565	
	Westbound	T	1.34	219.0	F	350	T	1.42	254.9	F	372	+	T	1.30	200.3	F	361		T	1.33	212.5	F	262	T	1.39	235.3	F	272	+	T	1.31	201.6	F	261		T	1.35	220.0	F	237	T	1.42	249.9	F	247	+	T	1.34	214.9	F	237	
		R	0.82	69.1	E	164	R	0.84	71.1	E	165		R	0.75	59.9	E	151		R	1.25	177.9	F	173	R	1.29	193.4	F	175	+	R	1.21	160.4	F	166		R	1.22	162.2	F	211	R	1.23	163.9	F	204		R	1.17	135.2	F	189	
	Northbound	LTR	0.00	0.0	A	0	LTR	0.00	0.0	A	0		LTR	0.00	0.0	A	0		LTR	0.00	0.0	A	0	LTR	0.00	0.0	A	0		LTR	0.00	0.0	A	0		LTR	0.25	42.8	D	46	LTR	0.25	42.8	D	46		LTR	0.29	45.4	D	46	
		Intersection		93.4	F		Intersection		106.3	F			Intersection		83.2	F			Intersection		125.7	F		Intersection		140.3	F			Intersection		121.6	F			Intersection		94.5	F		Intersection		106.2	F			Intersection		90.1	F		
7	Second Ave/E 23rd St																																												
	Eastbound	T	0.92	75.8	E	268	T	0.95	80.4	F	276	+	T	0.92	73.8	E	270		T	0.79	29.6	C	195	T	0.81	30.8	C	202		T	0.78	28.6	C	191		T	0.61	24.8	C	114	T	0.61	24.9	C	114		T	0.61	24.9	C	114	
		R	0.89	79.2	E	169	R	0.91	82.3	F	170		R	0.87	74.1	E	165		R	0.81	38.5	D	112	R	0.83	40.3	D	116		R	0.80	36.2	D	102		R	0.68	31.6	C	65	R	0.69	31.9	C	66		R	0.69	31.9	C	66	
	Westbound	L	0.97	101.0	F	190	L	0.98	103.0	F	190		L	0.92	86.0	F	185		L	1.19	175.8	F	183	L	1.23	192.6	F	185	+	L	1.14	156.5	F	179		L	0.74	56.5	E	147	L	0.74	56.5	E	147		L	0.74	56.5	E	147	
		T	1.07	100.2	F	370	T	1.08	103.0	F	374		T	1.03	86.8	F	364		T	1.38	220.5	F	500	T	1.39	227.1	F	503	+	T	1.31	191.1	F	490		T	1.27	174.5	F	478	T	1.28	176.7	F	480		T	1.28	176.7	F	480	
	Southbound	L	1.18	152.2	F	310	L	1.18	152.2	F	310		L	1.18	152.2	F	310		L	1.13	129.8	F	367	L	1.13	129.8	F	367		L	1.13	129.8	F	367		L	1.05	101.9	F	339	L	1.05	101.9	F	339		L	1.05	101.9	F	339	
																			TR	0.90	26.4	C	374	TR	0.90	26.7	C	378		TR	0.92	29.3	C	421																	
		T	0.72	18.0	B	272	T	0.72	18.1	B	273		T	0.74	19.1	B	282																			T	0.70	17.4	B	280	T	0.70	17.5	B	282		T	0.70	17.5	B	282	
		R	0.46	17.6	B	104	R	0.46	17.6	B	104		R	0.47	18.5	B	108																			R	0.37	14.7	B	83	R	0.37	14.7	B	83		R	0.37	14.7	B	83	
		Intersection		55.5	E		Intersection		56.6	E			Intersection		53.1	D			Intersection		73.7	E		Intersection		75.6	E			Intersection		69.5	E			Intersection		53.9	D		Intersection		54.2	D			Intersection		54.2	D		
8	Second Ave/E 30th St																																												
	Eastbound	T	1.71	362.0	F	294	T	1.74	377.3	F	296	+	T	1.68	347.6	F	300		T	1.57	266.5	F	55	T	1.60	279.4	F	52	+	T	1.54	253.7	F	56		T	2.03	478.2	F	346	T	2.07	493.8	F	347	+	T	1.99	458.0	F	347	
		R	0.35	33.5	C	31	R	0.35	33.9	C	31		R	0.33	33.0	C	31		R	0.53	6.8	A	5	R	0.53	6.7	A	5		R	0.50	6.3	A	5		R	0.42	9.2	A	7	R	0.42	9.0	A	7		R	0.40	8.7	A	7	
	Southbound	L	0.76	25.1	C	324	L	0.76	25.2	C	326		L	0.78	27.0	C	336		L	0.63	19.7	B	261	L	0.63	19.7	B	262		L	0.64	20.8	C	269		L	0.78	26.7	C	401	L	0.78	26.9	C	404		L	0.80	29.0	C	413	
		T	0.68	13.7	B	204	T	0.68	13.7	B	205		T	0.69	14.5	B	212		T	0.84	18.4	B	289	T	0.84	18.5	B	291		T	0.86	20.0	C	302		T	0.72	14.4	B	236	T	0.72	14.5	B	238		T	0.74	15.4	B	247	
		Intersection		96.8	F		Intersection		101.5	F			Intersection		95.2	F			Intersection		67.1	E		Intersection		70.4	E			Intersection		66.4	E			Intersection		133.6	F		Intersection		138.8	F			Intersection		130.4	F		
9	Second Ave/E 34th St																																												
	Eastbound	T	0.86	40.4	D	288	T	0.90	43.5	D	309		T	0.89	41.2	D	306		T	1.25	162.0	F	427	T	1.29	180.8	F	446	+	T	1.24	155.6	F	433		T	1.04	83.2	F	327	T	1.10	104.0	F	356	+	T	1.03	77.0	E	338	
		R	0.74	48.1	D	135	R	0.74	48.2	D	127		R	0.74	46.8	D	127		R	0.78	53.6	D	141	R	0.78	53.0	D	135		R	0.75	49.1	D	134		R	0.57	42.5	D	136	R	0.57	42.1	D	133		R	0.53	38.8	D	130	
	Westbound	T	0.62	26.2	C	40	T	0.65	28.0	C	40		T	0.65	28.1	C	55		T	0.83	35.4	D	66	T	0.86	37.1	D	65		T	0.83	35.9	D	76		T	0.67	28.7	C	43	T	0.70	30.2	C	43		T	0.65	29.3	C	53	
	Southbound	L	0.77	39.4	D	174	L	0.77	39.4	D	174		L	0.77	39.4	D	174		L	0.54	32.1	C	127	L	0.54	32.1	C	127		L	0.54	32.1	C	127		L	0.60	33.3	C	146	L	0.60	33.3	C	146		L	0.60	33.3	C	146	
		T	0.67	18.3	B	234	T	0.67	18.4	B	235		T	0.67	18.4	B	235		T	0.67	18.3	B	238	T	0.67	18.3	B	240		T	0.68	19.2	B	246		T	0.71	19.1	B	279	T	0.72	19.2	B	280		T	0.75	21.2	C	294	
		R	0.58	26.0	C	124	R	0.58	26.0	C	124		R	0.58	26.0	C	124		R	0.26	14.5	B	61	R	0.26	14.5	B	61		R	0.27	15.2	B	63		R	0.23	14.2	B	48	R	0.23	14.2	B	48		R	0.24	15.6	B	51	
		Intersection		28.1	C		Intersection		29.0	C			Intersection		28.5	C			Intersection		57.1	E		Intersection		62.5	E			Intersection		56.6	E			Intersection		36.1	D		Intersection		41.4	D			Intersection		36.2	D		
10	Second Ave/E 36th St																																												
	Eastbound	TR	1.53	285.9	F	288	TR	1.56	296.7	F	289	+	TR	1.45	248.8	F	280		TR	1.01	60.9	E	297	TR	1.03	65.9	E	305	+	TR	0.99	54.9	D	295		TR	0.67	34.7	C	166	TR	0.70	35.6	D	174		TR	0.70	35.5	D	173	
	Westbound	L	1.65	339.6	F	369	L	1.65	339.6	F	369		L	1.65	339.6	F	369																																			
	Southbound	L	2.70	821.6	F	345	L	2.70	821.6	F	345		L	2.70	821.6	F	345		L	0.45	28.2	C	113	L	0.45	28.2	C	113		L	0.47	29.3	C	115		L	0.59	30.8	C	147	L	0.59	30.8	C	147		L	0.59	30.8	C	147	
		T	0.45	14.0	B	135	T	0.45	14.1	B	135		T	0.46	14.7	B	139		T	0.54	11.9	B	169	T	0.54	11.9	B	170		T	0.55	12.6	B	175		T	0.60	12.6	B	218	T	0.60	12.6	B	218		T	0.60	12.6	B	218	
		Intersection		284.4	F		Intersection		287.0	F			Intersection		274.1	F			Intersection		32.5	C		Intersection		34.6	C			Intersection		30.8	C			Intersection		21.6	C		Intersection		22.1	C			Intersection		22.0	C		
11	QMT Exit St/E 34th St																																												
	Eastbound	T	0.66	3.6	A	40	T	0.69	4.2	A	38		T	0.69	3.7	A	43		T	0.79	4.8	A	25	T	0.81	5.3	A	23		T	0.80	4.9	A	24		T	0.65	3.4	A	33	T	0.69	4.0	A	30		T	0.69	4.4	A	30	
	Westbound	T	0.80	42.2	D	298	T	0.82	43.6	D	315		T	0.82	42.9	D	315		T	0.97	38.9	D	444	T	1.00	44.8	D	445		T	0.97	37.8	D	459		T	0.75	17.1	B	74	T	0.78	17.9	B	75		T	0.78	19.0	B	190	
	Southbound	LR	0.73	34.3	C	73	LR	0.73	34.4	C	74		LR	0.73	34.0	C	81		LR	0.93dr	16.6	B	43	LR	0.94dr	16.5	B	43		LR	1.02dr	19.4	B	47		LR	0.65	13.5	B	39	LR	0.65	13.4	B	39		LR	0.65	13.8	B	41	
		R	0.22	11.3	B	40	R	0.23	11.2	B	41		R	0.23	10.4	B	41		R	0.28	3.5	A	12	R	0.29	3.4	A	12		R	0.29	4.5	A	15		R	0.25	2.5	A	7	R	0.25	2.5	A	7		R	0.25	2.4	A	7	
		Intersection		20.6	C		Intersection		21.1	C			Intersection		20.6	C			Intersection		16.2	B		Intersection		18.2	B			Intersection		16.4	B			Intersection		8.5	A		Intersection		9.0	A			Intersection		9.6	A		
12	QMT Exit St/E 35th St																																												
	Westbound	LT	0.70	25.9	C	245	LT	0.72	26.7	C	254		LT	0.75	30.0	C	266		LT	0.70	25.8	C	249	LT	0.71	26.5	C	256		LT	0.73	28.1	C	263		LT	0.29	16.1	B	103	LT	0.30	16.2	B	108		LT	0.31	17.0	B	110	
	Southbound	L	0.93	55.1	E	460	L	0.94	57.3	E	468		L	0.89	46.3	D	448		L	1.11	103.4	F	524	L	1.11	103.4	F	524		L	1.07	90.2	F	513		L	0.87	46.4	D	411	L	0.87	46.4	D	402		L	0.84	42.4	D	402	
		LT	0.96	60.5	E	483	LT	0.96	60.5	E	483		LT	0.90	48.1	D	463		LT	1.23	149.1	F	562	LT	1.24	153.3	F	568	+	LT	1.20	136.1	F	558		LT	1.09	99.2	F	469	LT	1.11	103.7	F	477	+	LT	1.07	90.8	F	468	
		R	1.21	144.5	F	584	R	1.26	164.2	F	613	+	R	1.18	130.6	F	595		R	1.13	111.1	F	514	R	1.16	122.9	F	533	+	R	1.12	108.6	F	524		R	1.18	131.7	F	558	R	1.20	137.9	F	567	+	R	1.16	122.8	F	559	
		Intersection		76.4	E		Intersection		83.4	F			Intersection		68.4	E			Intersection		103.0	F		Intersection		107.3	F			Intersection		95.6	F			Intersection		87.5	F		Intersection		90.8	F			Intersection		80.9	F		
13	QMT Exit St/E 37th St																																												
	Westbound	TR	0.62	27.9	C	187	TR	0.65	28.9	C	196		TR	0.65	28.9	C	196		TR	0.54	24.2	C	227	TR	0.55	24.4	C	232		TR	0.55	24.4	C	232		TR	0.47	22.5	C	182	TR	0.48	22.7	C	187		TR	0.48	22.7	C	187	
	Northbound	L	0.32	0.2	A	0	L	0.32	0.2	A	0		L	0.32	0.2	A	0		L	0.21	0.1	A	0	L	0.21	0.1	A	0		L	0.21	0.1	A	0		L	0.28	0.2	A	0	L	0.28	0.2	A	0		L	0.28	0.2	A	0	
		R	0.75	23.5	C	292	R	0.75	23.5	C	292		R	0.75	23.5	C	292		R	0.76	23.3	C	284	R	0.76	23.3	C	284		R	0.76	23.3	C	284		R	0.71	21.6	C	277	R	0.71	21.6	C	277		R	0.71	21.6	C	277	
		Intersection		11.7	B		Intersection		11.8	B			Intersection		11.8	B			Intersection		13.7	B		Intersection		13.7	B			Intersection		13.7	B			Intersection		10.7	B		Intersection		10.7	B			Intersection		10.7	B		

Table MA-T1

2033 No Action vs With Action vs With Action with Mitigation Conditions Level of Service Analysis

Signalized Intersections

#	Intersection & Approach	Weekday AM Peak Hour																Weekday Midday Peak Hour												Weekday PM Peak Hour											
		2033 No Action					2033 With Action						2033 With Action with Mitigation					2033 No Action					2033 With Action						2033 With Action with Mitigation						2033 No Action					2033 With Action						2033 With Action with Mitigation				
		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)
Third Ave/E 23rd St																																									
14	Eastbound	L	0.52	33.0	C	88	L	0.52	33.0	C	88		L	0.52	33.0	C	88	L	0.45	29.4	C	88	L	0.45	29.4	C	88		L	0.45	29.4	C	88	L	0.46	32.0	C	79	L	0.46	32.0	C	79		L	0.46	32.0	C	79
		T	0.65	28.1	C	240	T	0.67	28.6	C	246		T	0.67	28.6	C	246	T	0.69	30.1	C	261	T	0.72	31.2	C	271		T	0.72	31.2	C	271	T	0.77	35.9	D	261	T	0.78	36.3	D	267		T	0.78	36.3	D	267
		R	0.49	27.7	C	90	R	0.49	27.7	C	90		R	0.49	27.7	C	90	R	0.51	28.1	C	101	R	0.51	28.1	C	101		R	0.51	28.1	C	101	R	0.75	43.3	D	166	R	0.75	43.3	D	166		R	0.75	43.3	D	166
	Westbound	L	1.17	160.6	F	73	L	1.20	171.3	F	73	+	L	1.20	174.0	F	78	U	L	0.95	60.9	E	45	L	1.00	72.2	E	45	+	L	1.00	72.7	E	47	U	L	1.02	79.7	E	62	L	1.03	82.7	F	62		L	1.03	82.7	F	62
		T	1.09	105.1	F	178	T	1.10	107.8	F	177		T	1.10	108.5	F	189	U	T	1.20	140.8	F	123	T	1.20	140.9	F	122		T	1.20	141.3	F	131		T	1.37	217.9	F	214	T	1.38	220.8	F	215		T	1.38	220.8	F	215
		R	1.21	158.2	F	147	R	1.21	160.1	F	147		R	1.21	161.0	F	155		R	1.41	229.6	F	152	R	1.41	232.0	F	150		R	1.41	232.6	F	159	U	R	1.14	116.2	F	129	R	1.14	118.6	F	129		R	1.14	118.6	F	129
	Northbound	LTR	1.13	93.1	F	439	LTR	1.13	96.3	F	443	+	LTR	1.13	96.3	F	443	U	LTR	1.23	136.3	F	521	LTR	1.24	141.2	F	528	+	LTR	1.24	141.2	F	528	U	LTR	1.02	55.9	E	382	LTR	1.03	58.9	E	387		LTR	1.03	58.9	E	387
	Southbound	LTR	0.11	16.0	B	27	LTR	0.11	16.0	B	27		LTR	0.11	16.0	B	27		LTR	0.17	16.5	B	36	LTR	0.17	16.5	B	36		LTR	0.17	16.5	B	36		LTR	0.13	16.1	B	31	LTR	0.13	16.1	B	31		LTR	0.13	16.1	B	31
		Intersection		82.0	F		Intersection		84.3	F			Intersection		84.5	F			Intersection		112.2	F		Intersection		115.3	F			Intersection		115.4	F			Intersection		72.0	E		Intersection		74.0	E			Intersection		74.0	E	
Third Ave/E 30th St																																									
15	Eastbound	LT	1.78	374.4	F	362	LT	1.81	388.9	F	363	+	LT	1.75	361.4	F	361		LT	1.86	398.8	F	280	LT	1.88	409.3	F	282	+	LT	1.82	379.2	F	288		LT	2.12	513.9	F	387	LT	2.15	527.0	F	387	+	LT	2.08	494.5	F	394
	Northbound	TR	0.69	18.8	B	203	TR	0.70	18.9	B	205		TR	0.71	19.9	B	210		TR	0.68	18.5	B	200	TR	0.68	18.5	B	201		TR	0.70	19.4	B	206		TR	0.86	24.0	C	300	TR	0.86	24.2	C	302		TR	0.89	25.9	C	310
		Intersection		133.8	F		Intersection		139.6	F			Intersection		131.2	F			Intersection		128.3	F		Intersection		132.2	F			Intersection		124.1	F			Intersection		163.7	F		Intersection		168.8	F			Intersection		160.7	F	
Third Ave/E 34th St																																									
16	Eastbound	T	1.14	88.7	F	168	T	1.24	134.0	F	167	+	T	1.10	73.9	E	167		T	1.85	410.0	F	479	T	2.07	511.8	F	482	+	T	1.85	412.3	F	483		T	1.21	124.5	F	432	T	1.36	193.0	F	449	+	T	1.16	103.7	F	415
	Westbound	T	0.98	40.6	D	499	T	1.01	48.1	D	511	+	T	0.95	33.6	C	489		T	1.21	125.2	F	573	T	1.24	138.6	F	580	+	T	1.21	123.0	F	589		T	1.09	82.7	F	524	T	1.12	95.9	F	550	+	T	1.06	70.9	E	528
		R	0.27	10.3	B	36	R	0.27	10.4	B	35		R	0.25	9.2	A	31		R	0.37	17.1	B	50	R	0.37	17.0	B	49		R	0.36	16.3	B	46		R	0.33	17.4	B	51	R	0.33	17.1	B	49		R	0.30	15.6	B	42
	Northbound	LTR	0.75	23.2	C	215	LTR	0.75	23.2	C	215		LTR	0.79	25.7	C	225		LTR	0.74	22.9	C	208	LTR	0.74	23.0	C	208		LTR	0.76	24.1	C	213		LTR	0.90	29.1	C	316	LTR	0.90	29.2	C	316		LTR	0.95	35.3	D	361
		Intersection		40.1	D		Intersection		52.1	D			Intersection		37.3	D			Intersection		126.9	F		Intersection		154.1	F			Intersection		129.7	F			Intersection		54.9	D		Intersection		70.8	E			Intersection		53.6	D	
Third Ave/E 35th St																																									
17	Westbound	T	1.35	188.9	F	552	T	1.41	214.4	F	567	+	T	1.33	178.4	F	576		T	1.37	198.4	F	605	T	1.41	216.4	F	618	+	T	1.37	198.4	F	623		T	1.41	221.8	F	481	T	1.44	236.5	F	493	+	T	1.40	218.2	F	502
		R	0.19	18.5	B	33	R	0.19	18.6	B	32		R	0.18	17.2	B	31		R	0.21	18.7	B	32	R	0.21	18.8	B	32		R	0.21	18.1	B	31		R	0.18	21.9	C	30	R	0.18	21.7	C	30		R	0.17	21.1	C	30
	Northbound	LT	0.53	3.0	A	16	LT	0.53	3.0	A	16		LT	0.56	3.1	A	16		LT	0.56	4.5	A	24	LT	0.56	4.5	A	24		LT	0.58	4.6	A	24		LT	0.70	2.9	A	18	LT	0.70	2.9	A	18		LT	0.72	3.0	A	17
		Intersection		64.7	E		Intersection		75.0	E			Intersection		62.9	E			Intersection		70.4	E		Intersection		77.9	E			Intersection		71.8	E			Intersection		57.3	E		Intersection		62.0	E			Intersection		57.4	E	
Third Ave/E 36th St																																									
18	Eastbound	LT	0.99	41.0	D	270	LT	1.00	38.0	D	268		LT	1.00	38.0	D	268		LT	0.62	26.9	C	137	LT	0.63	27.2	C	137		LT	0.63	26.1	C	138		LT	0.38	18.7	B	102	LT	0.40	20.1	C	113		LT	0.40	20.1	C	113
	Northbound	TR	0.41	2.2	A	13	TR	0.41	2.2	A	13		TR	0.41	2.3	A	12		TR	0.54	3.0	A	16	TR	0.54	3.0	A	16		TR	0.54	3.0	A	16		TR	0.69	3.5	A	20	TR	0.69	3.5	A	20		TR	0.69	3.5	A	20
		R	0.65	27.7	C	252	R	0.65	27.7	C	252		R	0.65	27.8	C	252		R	1.18	137.7	F	348	R	1.18	137.6	F	348		R	1.18	137.5	F	351		R	1.22	140.8	F	418	R	1.22	140.7	F	418		R	1.22	140.6	F	430
		Intersection		19.1	B		Intersection		18.1	B			Intersection		18.2	B			Intersection		25.0	C		Intersection		25.2	C			Intersection		24.8	C			Intersection		22.6	C		Intersection		22.9	C			Intersection		22.9	C	
Third Ave/E 37th St																																									
19	Westbound	T	0.80	20.5	C	294	T	0.82	21.4	C	312		T	0.82	21.4	C	312		T	0.64	16.1	B	192	T	0.65	16.2	B	195		T	0.65	16.2	B	195		T	0.80	20.7	C	260	T	0.81	21.1	C	266		T	0.81	21.1	C	266
		R	0.97	73.6	E	203	R	0.97	73.4	E	203		R	0.97	73.4	E	203		R	0.61	37.4	D	97	R	0.61	37.4	D	97		R	0.61	37.4	D	97		R	1.10	108.7	F	255	R	1.10	108.6	F	255		R	1.10	108.6	F	255
	Northbound	LT	0.63	7.5	A	38	LT	0.63	7.5	A	38		LT	0.63	6.4	A	34		LT	0.53	3.9	A	13	LT	0.53	3.9	A	13		LT	0.53	3.4	A	12		LT	0.72	6.0	A	31	LT	0.73	6.1	A	31		LT	0.73	4.6	A	19
		Intersection		21.3	C		Intersection		21.7	C			Intersection		21.1	C			Intersection		12.9	B		Intersection		12.9	B			Intersection		12.7	B			Intersection		26.2	C		Intersection		26.3	C			Intersection		25.6	C	
Lexington Ave/E 30th St																																									
20	Eastbound	TR	1.89	446.9	F	257	TR	1.92	462.7	F	257	+	TR	1.85	431.3	F	249		TR	2.06	527.4	F	283	TR	2.09	542.3	F	284	+	TR	2.01	504.3	F	288		TR	1.88	449.2	F	180	TR	1.91	465.8	F	179	+	TR	1.85	435.0	F	188
	Southbound	LT	1.05	28.9	C	26	LT	1.06	29.8	C	25		LT	1.08	41.1	D	28		LT	0.82	5.4	A	18	LT	0.82	5.4	A	18		LT	0.84	5.7	A	18		LT	0.84	2.5	A	10	LT	0.84	2.4	A	10		LT	0.86	1.7	A	10
		Intersection		144.7	F		Intersection		151.4	F			Intersection		150.7	F			Intersection		170.4	F		Intersection		176.8	F			Intersection		164.9	F			Intersection		157.0	F		Intersection		164.7	F			Intersection		153.4	F	
Lexington Ave/E 31st St																																									
21	Westbound	LT	1.68	347.1	F	614	LT	1.73	371.3	F	638	+	LT	1.73	371.3	F	638	U	LT	1.50	270.2	F	540	LT	1.55	291.7	F	562	+	LT	1.49	266.8	F	554		LT	1.37	211.5	F	533	LT	1.41	231.9	F	555	+	LT	1.36	208.9	F	547
	Southbound																																			TR	0.97	10.6	B	21	TR	0.97	11.3	B	21		TR	1.00	15.3	B	387
		T	1.15	71.5	E	14	T	1.18	82.8	F	14	+	T	1.17	80.9	F	14	U	T	0.74	2.3	A	17	T	0.74	2.2	A	17		T	0.76	2.3	A	17																		
		R	1.15	75.7	E	6	R	1.21	102.7	F	8	+	R	1.21	102.2	F	143	U	R	0.57	4.6	A	5	R	0.64	5.4	A	5		R	0.66	5.8	A	5																		
		Intersection		135.5	F		Intersection		152.8	F			Intersection		151.5	F			Intersection		70.1	E		Intersection		76.9	E			Intersection		70.5	E			Intersection		60.9	E		Intersection		67.8	E			Intersection		64.9	E	
Lexington Ave/E 32nd St																																									
22	Eastbound	TR	0.77	38.4	D	232	TR	0.79	40.0	D	249		TR	0.82	43.3	D	266		TR	0.82	44.6	D	264	TR	0.86	48.3	D	281		TR	0.86	48.3	D	281		TR	0.86	46.3	D	300	TR	0.89	50.3	D	318		TR	0.89	50.3	D	318
	Southbound	LT	1.22	104.7	F	416	LT	1.23	108.5	F	415	+	LT	1.20	95.1	F	425		LT	0.98	18.6	B	403	LT	0.99	20.2	C	411		LT	0.99	20.4	C	411		LT	0.98	5.3	A	14	LT	0.98	5.6	A	14		LT	0.98	5.6	A	14
		Intersection		96.1	F		Intersection		99.4	F			Intersection		88.2	F			Intersection		23.0	C		Intersection		25.1	C			Intersection		25.2	C			Intersection		12.9	B		Intersection		14.2	B			Intersection		14.2	B	
Lexington Ave/E 33rd St																																									
23	Westbound	LT	0.46	25.0	C	133	LT	0.46	25.0	C	133		LT	0.47	26.0	C	135		LT	0.75	39.0	D	208	LT	0.75	39.0	D	208		LT	0.75	39.0	D	208		LT	0.54	26.9	C	166	LT	0.54	26.9	C	166		LT	0.54	26.9	C	166
	Southbound																																			TR	1.08	43.4	D	352	TR	1.08	44.6	D	352		TR	1.08	42.7	D	32
		T	1.19	91.9	F	47	T	1.20	95.8	F	48	+	T	1.17	81.4	F	38		T	0.82	4.5	A	24	T	0.83	4.5	A	24		T	0.83	4.5	A	24																		
		R	0.70	7.0	A	8	R	0.70	7.0	A	8		R	0.66	5.3	A	7		R	0.66	8.0	A	6	R	0.66	7.7	A	6		R	0.66	7.1	A	6																		
		Intersection		81.6	F		Intersection		85.0	F			Intersection		72.6	E			Intersection		10.2	B		Intersection		10.1	B			Intersection		10.0	B			Intersection		41.1	D		Intersection		42.2	D			Intersection		40.5	D	
Lexington Ave/E 34th St																																									
24	Eastbound	T	1.23	153.7	F	459	T	1.30	182.0	F	478	+	T	1.30	182.9	F	493	U	T	1.20	121.2	F	260	T	1.26	147.0	F	268	+	T	1.22	129.3	F	279	U	T	1.00	43.0	D	292	T	1.08	70.5	E	284	+	T	1.05	57.9	E	329	U
		R	0.53	34.2	C	119	R	0.53	33.7	C	115		R	0.53	34.3	C	117		R	0.36	22.7	C	48	R	0.36	22.8	C	47		R	0.35	22.5	C	48		R	0.27	20.6	C	47	R	0.27	20.5	C	42		R	0.26	20.5	C	48	
	Westbound	T	1.27	149.1	F	571	T	1.31	164.1	F	570	+	T	1.31	163.0	F	615	U	T	1.43	226.6	F	562	T	1.47	243.8	F	567	+	T	1.42	223.5	F	576		T	1.26	150.1	F	491	T	1.30	168.0	F	493	+	T	1.26	151.7	F	516	
	Southbound	LT	1.22	105.8	F	451	LT	1.23	110.1	F	451	+	LT	1.23	110.5	F	501	U	LT	1.00	22.6	C	401	LT	1.01	24.9	C	402		LT	1.04	35.4	D	417		LT	1.03	26.7	C	420	LT	1.03	27.9	C	423		LT	1.06	38.9	D	424	
		R	0.31	2.5	A	4	R	0.31	2.7	A	5		R	0.31	2.9	A	5		R	0.72	13.8	B	12	R	0.72	13.6	B	13		R	0.76	19.0	B	16		R	0.86	25.9	C	9	R	0.86	25.6	C	9		R	0.91	38.6	D	26	
		Intersection		116.3	F		Intersection		126.4	F			Intersection		126.5	F			Intersection		93.8	F		Intersection		105.2	F			Intersection		101.6	F			Intersection		57.7	E		Intersection		68.1	E			Intersection		68.0	E	
Lexington Ave/E 35th St																																									
25	Westbound	L	1.26	170.9	F	181	L	1.32	195.7	F	184	+	L	0.60	43.9	D	76		L	0.91	32.9	C	98	L	0.97	39.9	D	104		L	0.44	24.0	C	52		L	0.88	34.4	C	100	L	0.91	35.9	D	101		L	0.41	26.8	C	51	
		T	1.31	181.2	F	376	T	1.35	199.0	F	374	+	T	1.25	151.2	F	376		T	1.34	168.1	F	409	T	1.36	178.5	F	404	+	T	1.29	147.9	F	402		T	1.37	187.0	F	432	T	1.39	196.8	F	432	+	T	1.26	137.7	F	411	
	Southbound	T	1.11	57.5	E	409	T	1.11	57.9	E	409		T	1.11	57.9	E	409		T	0.86	8.1	A	52	T	0.86	8.1	A	52		T	0.86	8.2	A	52		T	0.92	8.2	A	38	T	0.92	8.3	A	38		T	0.92	8.3	A	38	
		R	0.55	5.0	A	8	R	0.55	5.0	A	8		R	0.55	5.0	A	8		R	0.66	10.8	B	13	R	0.66	10.8	B	13		R	0.66	10.6	B	13		R	0.56	9.1	A	6	R	0.56	9.1	A	6		R	0.56	9.1	A	6	
		Intersection		96.2	F		Intersection		104.2	F			Intersection		76.6	E			Intersection		56.7	E		Intersection		60.7	E			Intersection		50.5	D			Intersection		61.8	E		Intersection		65.3	E			Intersection		47.4	D	
Lexington Ave/E 36th St																																									
26	Eastbound	T	0.98	27.4	C	220	T	1.01	32.0	C	223		T	1.01	32.0	C	223		T	1.17	103.4	F	261	T	1.20	117.7	F	274	+	T	1.15	94.3	F	265		T	0.55	8.6	A	62	T	0.59	8.5	A	67		T	0.59	8.5	A	67	
		R	0.94	32.8	C	119	R	0.94	32.8	C	118		R	0.94	32.8	C	118		R	1.08	83.6	F	179	R	1.08	82.1	F	173		R	1.04	67.0	E	167		R	0.56	16.3	B	51	R	0.56	14.1	B	49		R	0.56	14.1	B	49	
	Southbound	LT	1.06	37.0	D	427	LT	1.06	37.7	D	428		LT	1.06	37.7	D	428		LT	0.89	13.4	B	87	LT	0.89	13.4	B	86		LT	0.92	15.2	B	180		LT	0.98	20.8	C	419	LT	0.98	20.8	C	419		LT	0.98	20.8	C	419	
		Intersection		34.2	C		Intersection		35.8	D			Intersection		35.8	D			Intersection		45.8	D		Intersection		50.3	D			Intersection		43.2	D			Intersection		17.7	B		Intersection		17.4	B			Intersection		17.4	B	
Lexington Ave/E 37th St																																									
27	Westbound	L	1.12	118.7	F	385	L	1.12	117.8	F	368		L	1.12	117.8	F	368		L	0.53	16.4	B	75	L	0.53	16.3	B	75		L	0.53	16.3	B	75		L	0.69	16.8	B	83	L	0.69	16.9	B	84		L	0.69	16.9	B	84	
		T	1.21	145.9	F	421	T	1.26	167.5	F	441	+	T	1.26	167.5	F	441	U	T	0.85	22.0	C	224	T	0.86	22.8	C	232		T	0.86	22.8	C	232		T	0.91	20.3	C	242	T	0.93	21.7	C	275		T	0.93	21.7	C	275	
	Southbound	T	0.98	44.1	D	425	T	0.98	44.5	D	426		T	0.98	44.5	D	426		T	0.77	25.2	C	279	T	0.77	25.3	C	279		T	0.77	25.3	C	279		T	0.92	35.4	D	355	T	0.92	35.4	D	355		T	0.92	35.4	D	355	
		R	0.33	20.6	C	65	R	0.32	20.4	C	64		R	0.32	20.4	C	64		R	0.39	20.7	C	86	R	0.39	20.7	C	86		R	0.39	20.7	C	86		R	0.71	34.2	C	166	R	0.71	34.2	C	166		R	0.71	34.2	C	166	
		Intersection		81.9	F		Intersection		89.0	F			Intersection		89.0	F			Intersection		23.1	C		Intersection		23.5	C			Intersection		23.4	C			Intersection		28.4	C		Intersection		28.8	C			Intersection		28.8	C	
Park Ave/E 30th St																																									
28	Eastbound	LT	2.25	607.5	F	661	LT	2.30	629.3	F	679	+	LT	2.30	629.3	F	679	U	LT	2.24	603.7	F	715	LT	2.28	620.9	F	729	+	LT	2.17	572.4	F	721		LT	3.24	1055.0	F	896	LT	3.31	1085.3	F	912	+	LT	3.12	995.7	F	903
		R	1.19	168.3	F	220	R	1.19	168.3	F	220		R	1.19	168.3	F	220		R	0.65	57.1	E	89	R	0.65	57.1	E	89		R	0.62	52.1	D	86		R	0.49	43.3	D	62	R	0.49	43.3	D	62		R	0.47	40.9	D	61	
	Northbound	TR	0.70	20.5	C	246	TR	0.70	20.5	C	246		TR	0.70	20.5	C	246		TR	0.91	32.4	C	380	TR	0.91	32.5	C	380		TR	0.94	35.9	D	415		TR	0.76	22.1	C	285	TR	0.76	22.2	C	285		TR	0.78	23.5	C	293	
	Southbound	LT	1.14	73.4	E	396	LT	1.14	73.2	E	379		LT	1.14	72.9	E	400		LT	0.65	3.1	A	38	LT	0.65	3.1	A	38		LT	0.66	3.7	A	46		LT	0.75	4.2	A	55	LT	0.75	4.2	A	54		LT	0.77	5.1	A	64	
		Intersection		170.6	F		Intersection		177.3	F			Intersection		177.2	F			Intersection		148.0	F		Intersection		153.6	F			Intersection		144.2	F			Intersection		279.2	F		Intersection		291.0	F			Intersection		268.5	F	

Table MA-T1
2033 No Action vs With Action vs With Action with Mitigation Conditions Level of Service Analysis
Signalized Intersections

#	Intersection & Approach	Lane Group	Weekday AM Peak Hour 2033 No Action v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	2033 With Action v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	2033 With Action with Mitigation v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	Weekday Midday Peak Hour 2033 No Action v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	2033 With Action v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	2033 With Action with Mitigation v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	Weekday PM Peak Hour 2033 No Action v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	2033 With Action v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	2033 With Action with Mitigation v/c Ratio	Delay (sec)	LOS	Queue Length (ft)
Park Ave/E 31st St																																						
29	Westbound	LTR	1.58	281.6	F	291	1.64	310.0	F	292					1.56	270.8	F	339	1.64	308.6	F	362					1.59	286.5	F	434	1.63	305.5	F	440				
		LT	1.46	228.8	F	179																																
		R	0.43	14.6	B	14																																
	Northbound	T	0.59	5.6	A	49	0.59	5.6	A	49	0.58	5.1	A	45	0.72	7.3	A	96	0.72	7.3	A	96					0.72	6.8	A	87	0.68	6.3	A	79	0.69	6.3	A	80	0.69	6.1	A	80
	Southbound	TR	1.01	47.7	D	500	1.03	54.1	D	515	1.01	47.2	D	506	0.89	27.1	C	370	0.89	27.7	C	375					0.89	27.7	C	375	0.90	27.8	C	386	0.91	28.8	C	402	0.91	28.8	C	402
		Intersection		85.8	F		Intersection	96.8	F		Intersection	68.2	E		Intersection	70.1	E		Intersection	80.9	F						Intersection	44.3	D		Intersection	80.8	F		Intersection	87.1	F		Intersection	66.6	E	
Park Ave/E 34th St																																						
30	Eastbound	T	0.87	42.9	D	441	0.91	47.9	D	472	0.89	43.3	D	462	1.77	386.4	F	685	1.84	416.8	F	712					1.71	358.3	F	697	1.32	185.9	F	625	1.50	266.2	F	688	1.25	153.9	F	639
		R	0.41	26.1	C	78	0.41	26.1	C	78	0.40	25.0	C	77	0.44	25.7	C	89	0.44	25.7	C	89					0.40	23.3	C	85	0.25	21.8	C	53	0.25	21.8	C	53	0.23	20.1	C	51
	Westbound	T	1.05	47.1	D	308	1.09	60.5	E	309	1.06	47.1	D	308	2.17	551.2	F	524	2.26	593.7	F	528					1.24	134.8	F	373	1.37	192.9	F	411	1.41	212.5	F	414	1.12	83.8	F	358
		R	0.47	11.1	B	43	0.47	11.0	B	42	0.45	10.1	B	39	0.39	16.2	B	49	0.39	16.2	B	47					0.36	14.8	B	44	0.37	17.6	B	51	0.37	17.6	B	50	0.35	16.2	B	46
	Northbound	T	0.73	20.7	C	339	0.73	20.8	C	342	0.75	22.0	C	350	0.80	23.1	C	376	0.81	23.4	C	381					0.84	26.5	C	400	0.75	21.4	C	361	0.76	21.6	C	366	0.80	24.2	C	385
	Southbound	TR	0.94	10.8	B	88	0.95	11.5	B	92	0.97	14.3	B	101	0.98	19.8	B	114	0.98	20.8	C	117					1.03	33.8	C	434	0.99	23.3	C	482	1.00	24.3	C	484	1.04	39.6	D	485
		Intersection		24.3	C		Intersection	27.6	C		Intersection	26.0	C		Intersection	169.6	F		Intersection	184.6	F						Intersection	95.1	F		Intersection	74.2	E		Intersection	91.1	F		Intersection	58.5	E	
Park Ave/E 35th St																																						
31	Westbound	L	0.34	9.9	A	14	0.40	10.0	B	16	0.40	10.0	A	16	0.26	4.7	A	6	0.27	4.6	A	6					0.26	4.5	A	6	0.47	10.0	A	19	0.49	10.0	B	19	0.47	9.6	A	19
		TR	1.28	159.6	F	366	1.32	174.5	F	368	1.32	174.6	F	415																	1.35	194.8	F	358	1.36	202.0	F	357	1.32	185.0	F	409
															1.36	197.3	F	360	1.38	209.4	F	363					1.34	191.6	F	385											
															0.95	43.2	D	121	0.95	43.2	D	118					0.92	39.7	D	124											
	Northbound	LT	0.90	15.3	B	105	0.90	15.3	B	106	0.90	14.9	B	107	0.91	14.7	B	128	0.91	14.8	B	132					0.93	16.1	B	464	0.96	21.2	C	496	0.96	21.6	C	500	0.99	25.5	C	511
	Southbound	TR	1.07	38.7	D	83	1.07	39.0	D	83	1.07	39.0	D	83	0.95	6.1	A	51	0.95	6.2	A	51					0.97	8.1	A	61	0.94	5.7	A	70	0.95	5.8	A	70	0.97	8.0	A	80
		Intersection		58.6	E		Intersection	60.5	E		Intersection	60.5	E		Intersection	24.8	C		Intersection	27.4	C						Intersection	24.0	C		Intersection	25.8	C		Intersection	27.5	C		Intersection	24.4	C	
Park Ave/E 36th St																																						
32	Eastbound	TR	1.51	267.6	F	488	1.53	274.8	F	495	1.53	274.8	F	495	1.06	82.0	F	308	1.08	89.7	F	319					1.08	89.7	F	319	1.31	179.7	F	431	1.36	202.3	F	456	1.36	202.3	F	456
	Northbound	TR	1.11	65.8	E	505	1.11	66.9	E	505	1.11	66.9	E	505	1.36	180.0	F	663	1.36	181.4	F	664					1.36	181.2	F	652	1.19	101.3	F	523	1.20	103.5	F	522	1.20	102.9	F	505
	Southbound	LT	1.27	135.5	F	417	1.28	137.2	F	418	1.28	137.2	F	418	1.11	67.1	E	523	1.11	67.8	E	523					1.11	67.8	E	522	1.02	36.4	D	455	1.03	36.8	D	456	1.03	36.8	D	456
		Intersection		190.4	F		Intersection	194.8	F		Intersection	194.8	F		Intersection	72.4	E		Intersection	75.7	E						Intersection	75.7	E		Intersection	97.8	F		Intersection	109.4	F		Intersection	109.4	F	
Park Ave/E 37th St																																						
33	Westbound	TR	0.60	28.5	C	178	0.63	29.0	C	179	0.63	29.0	C	179	1.06	88.3	F	415	1.07	93.1	F	424									1.24	158.3	F	540	1.25	163.4	F	540				
																											0.81	47.8	D	313									0.96	56.0	E	377
																											0.59	44.2	D	126									0.66	43.2	D	129
	Northbound	LT	1.07	40.2	D	73	1.07	40.9	D	73	1.07	40.9	D	73	0.94	6.0	A	27	0.94	6.0	A	27					0.94	6.0	A	27	1.11	55.1	E	77	1.11	56.3	E	77	1.11	56.3	E	77
	Southbound	TR	1.16	107.0	F	610	1.17	108.0	F	611	1.17	108.0	F	611	0.89	29.6	C	387	0.89	29.7	C	388					0.89	29.7	C	388	0.88	29.0	C	374	0.89	29.1	C	375	0.89	29.1	C	375
		Intersection		65.6	E		Intersection	65.4	E		Intersection	65.4	E		Intersection	20.6	C		Intersection	20.9	C						Intersection	25.5	C		Intersection	39.2	D		Intersection	42.3	D		Intersection	43.6	D	
Madison Ave/E 30th St																																						
34	Eastbound	L	0.43	28.9	C	99	0.43	28.9	C	99	0.43	28.9	C	99	0.63	39.7	D	146	0.64	40.1	D	147					0.64	40.1	D	147	0.60	35.1	D	148	0.61	35.6	D	151	0.61	35.6	D	151
		T	2.28	619.7	F	822	2.33	641.9	F	842	2.33	641.9	F	842	2.72	820.4	F	667	2.77	845.2	F	683					2.77	845.2	F	683	2.98	934.2	F	830	3.05	965.0	F	853	3.05	965.0	F	853
	Northbound														TR	0.98	51.8	D	453	TR	0.98	51.8	D	453					TR	0.98	51.8	D	453											
		T	0.91	39.2	D	383	0.91	39.2	D	383	0.91	39.2	D	383																	1.15	104.9	F	617	1.15	104.9	F	617	1.15	104.9	F	617
		R	0.54	30.1	C	98	0.54	30.1	C	98	0.54	30.1	C	98																	0.54	32.9	C	85	0.54	32.9	C	85	0.54	32.9	C	85
		Intersection		240.0	F		Intersection	250.7	F		Intersection	250.7	F		Intersection	305.0	F		Intersection	316.5	F						Intersection	316.5	F		Intersection	369.5	F		Intersection	383.6	F		Intersection	383.6	F	
Madison Ave/E 31st St																																						
35	Westbound	TR	1.63	324.6	F	801	1.74	374.6	F	866					1.53	284.4	F	720	1.62	324.7	F	776					1.28	174.1	F	614	1.56	296.7	F	804	1.63	325.4	F	844				
											T	1.37	213.5	F	692													T	1.25	161.3	F	652																	R	0.40	28.2	C	92													R	0.39	29.9	C	87									R	0.43	28.8	C	99				
	Northbound	LT	1.17	90.4	F	529	1.17	90.9	F	530	1.17	90.9	F	530	1.08	56.8	E	438	1.09	58.0	E	440					1.09	58.0	E	440	1.23	114.3	F	464	1.23	115.2	F	465	1.23	115.2	F	465
		Intersection		182.8	F		Intersection	207.3	F		Intersection	130.2	F		Intersection	142.0	F		Intersection	161.4	F						Intersection	94.9	F		Intersection	179.5	F		Intersection	192.3	F		Intersection	124.4	F	
Madison Ave/E 32nd St																																						
36	Eastbound	L	0.61	35.8	D	172	0.62	36.5	D	177	0.59	33.2	C	170	0.67	41.0	D	207	0.70	42.8	D	221					0.68	40.6	D	215	0.57	33.9	C	160	0.64	37.2	D	182	0.62	35.4	D	179
		T	0.84	56.5	E	273	0.90	65.7	E	298	0.86	56.4	E	289	0.68	43.5	D	188	0.77	50.9	D	224					0.75	47.7	D	220	0.72	43.2	D	225	0.80	50.4	D	260	0.78	47.3	D	255
	Northbound	T	0.86	16.7	B	207	0.87	17.0	B	208	0.91	18.3	B	261	0.74	9.2	A	64	0.75	9.3	A	65					0.76	11.3	B	76	1.01	24.9	C	90	1.02	27.0	C	91	1.04	37.2	D	103
		R	0.57	12.2	B	33	0.57	12.4	B	33	0.60	13.6	B	42	0.77	12.8	B	18	0.77	12.9	B	18					0.80	15.9	B	21	0.71	13.6	B	21	0.71	13.7	B	21	0.73	16.2	B	25
		Intersection		24.8	C		Intersection	26.9	C		Intersection	25.9	C		Intersection	18.4	B		Intersection	20.3	C						Intersection	21.0	C		Intersection	27.1	C		Intersection	30.1	C		Intersection	36.6	D	
Madison Ave/E 34th St																																						
37	Eastbound	L	1.29	241.2	F	149	1.50	330.3	F	155	1.50	330.3	F	155	0.59	71.0	E	57	0.59	71.0	E	57					0.59	71.0	E	57	0.62	62.0	E	72	0.74	87.1	F	79	0.74	87.1	F	79
		T	1.24	157.4	F	605	1.35	202.5	F	654	1.35	202.5	F	654	1.30	183.4	F	675	1.34	200.9	F	702					1.34	200.9	F	702	1.08	93.4	F	568	1.14	117.4	F	620	1.14	117.4	F	620
	Westbound	T	1.01	72.4	E	557	1.05	81.9	F	585	1.05	81.9	F	585	1.73	373.7	F	911	1.79	396.7	F	943					1.79	396.7	F	943	1.13	114.4	F	601	1.18	130.4	F	632	1.18	130.4	F	632
		R	0.24	23.9	C	67	0.24	23.9	C	67	0.24	23.9	C	67	0.51	32.6	C	131	0.51	32.6	C	131					0.51	32.6	C	131	0.41	27.6	C	107	0.41	27.7	C	107	0.41	27.7	C	107
	Northbound	LT	1.04	66.8	E	488	1.04	67.7	E	491	1.04	67.7	E	491	0.97	48.5	D	446	0.98	50.7	D	453					0.98	50.7	D	453	1.23	138.8	F	648	1.24	146.6	F	662	1.24	146.6	F	662
		R	0.47	27.2	C	83	0.48	27.6	C	84	0.48	27.6	C	84	0.73	49.6	D	135	0.75	52.0	D	141					0.75	52.0	D	141	0.62	37.4	D	107	0.64	38.7	D	111	0.64	38.7	D	111
		Intersection		91.5	F		Intersection	108.1	F		Intersection	108.1	F		Intersection	170.8	F		Intersection	183.7	F						Intersection	183.7	F		Intersection	113.1	F		Intersection	125.8	F		Intersection	125.8	F	
Madison Ave/E 35th St																																						
38	Westbound	T	1.69	352.3	F	746	1.71	360.7	F	758	1.66	338.0	F	750	1.54	287.8	F	584	1.57	298.8	F	593					1.53	283.2	F	589	1.61	315.6	F	621	1.63	327.8	F	634	1.60	311.8	F	629
		R	0.97	105.9	F	207	0.97	105.9	F	207	0.92	91.2	F	200	1.12	143.0	F	292	1.12	143.0	F	292					1.07	122.6	F	284	1.08	133.7	F	251	1.08	133.7	F	251	1.02	113.4	F	243
	Northbound	LT	0.80	7.4	A	42	0.80	6.6	A	42	0.82	7.9	A	47	0.73	7.8	A	55	0.73	7.7	A	53					0.75	8.8	A	68	0.95	8.8	A	40	0.96	9.3	A	39	0.98	12.6	B	45
		Intersection		127.3	F		Intersection	130.4	F		Intersection	122.5	F		Intersection	99.0	F		Intersection	102.6	F						Intersection	96.5	F		Intersection	98.9	F		Intersection	102.6	F		Intersection	98.7	F	
Madison Ave/E 36th St																																						
39	Eastbound	LT	0.97	55.6	E	433	0.98	58.5	E	442	0.98	58.5	E	442	1.09	94.2	F	389	1.11	100.3	F	398					1.08	88.8	F	391	0.81	37.0	D	316	0.84	38.6	D	338	0.84	38.6	D	338
	Northbound	T	0.68	4.5	A	43	0.68	4.5	A	43	0.68	4.2	A	42	0.65	5.5	A	61	0.65	5.4	A	60					0.66	5.7	A	61	0.78	4.9	A	47	0.78	4.7	A	47	0.78	4.4	A	44
		R	0.46	5.0	A	19	0.47	5.0	A	19	0.47	4.7	A	18	0.47	6.7	A	23	0.48	7.0	A	24					0.50	7.4	A	23	0.64	6.8	A	19	0.70	7.6	A	20	0.70	7.1	A	19
		Intersection		25.5	C		Intersection	26.9	C		Intersection	26.7	C		Intersection	41.2	D		Intersection	43.9	D						Intersection	39.4	D		Intersection	16.4	B		Intersection	17.2	B		Intersection	16.9	B	
Madison Ave/E 37th St																																						
40	Westbound	TR	1.12	101.0	F	482	1.16	115.2	F	507	1.16	115.2	F	507	1.07	84.6	F	410	1.08	90.3	F	420					1.08	90.3	F	420	1.02	66.2	E	476	1.03	69.4	E	486	1.03	69.4	E	486
	Northbound	LT	1.16	104.9	F	605	1.16	104.9	F	604	1.16	105.0	F	604	1.15	87.1	F	617	1.15	87.0	F	615					1.15	87.2	F	625	1.23	114.0	F	682	1.23	113.8	F	682	1.23	113.9	F	687
		Intersection		103.1	F		Intersection	109.8	F		Intersection	109.9	F		Intersection	86.1	F		Intersection	88.4	F						Intersection	88.5	F		Intersection	93.0	F		Intersection	94.2	F		Intersection	94.3	F	
Broadway/E 23rd St																																						
41	Eastbound	T	0.62	1.1	A	0	0.62	1.1	A	0	0.61	1.1	A	0	0.57	1.2	A	1	0.58	1.2	A	1					0.56	1.2	A	1	0.43	2.3	A	11	0.44	2.3	A	11	0.43	2.2	A	11
		R	0.29	1.8	A	0	0.29	1.8	A	0	0.27	1.7	A	0	0.25	2.1	A	0	0.25	2.0	A	0					0.24	1.9	A	0	0.43	10.9	B	6	0.43	10.9	B	6	0.40	9.2	A	5
	Westbound	T	1.26	168.3	F	392	1.27	173.6	F	396	1.20	143.5	F	385	1.55	294.3	F	550	1.58	304.1	F	557					1.49	267.1	F	547	1.42	232.1	F	547	1.43	238.6	F	553	1.36	206.5	F	543
	Southbound	L	0.68	37.6	D	146	0.70	39.0	D	162	0.73	42.3	D	168	0.63	34.7	C	161	0.65	35.8	D	181					0.68	38.6	D	188	0.70	40.5	D	171	0.70	41.1	D	175	0.74	45.3	D	181
		T	0.41	18.8	B	157	0.41	18.8	B	157	0.43	19.7	B	161	0.43	18.4	B	164	0.43	18.4	B	164					0.44	19.2	B	168	0.33	17.5	B	130	0.33	17.5	B	130	0.34	18.3	B	133
		Intersection		45.4	D		Intersection	47.0	D		Intersection	40.7	D		Intersection	86.9	F		Intersection	89.8	F						Intersection	80.3	F		Intersection	85.1	F		Intersection	87.6	F		Intersection	77.3	E	
Fifth Ave/E 23rd St																																						
42	Eastbound	T	0.87	39.5	D	182	0.88	39.7	D	182	0.85	38.4	D	180	0.82	38.0	D	181	0.82	38.4	D	181					0.80	37.2	D	178	0.57	42.6	D	157	0.57	42.6	D	157	0.56	41.7	D	157
		R	0.46	33.3	C	37	0.46	33.3	C	36	0.44	32.4	C	36	0.44	32.7	C	36	0.44	32.9	C	36					0.43	32.0	C	36	0.41	40.4	D	41	0.41	40.3	D	41	0.39	39.4	D	41
	Westbound	T	0.45	0.2	A	0	0.45	0.2	A	0	0.44	0.2	A	0	0.59	1.8	A	8	0.60	1.8	A	8					0.58	1.7	A	8	0.59	0.7	A	2	0.60	0.8	A	2	0.58	0.6	A	2
	Southbound	TR	0.76	24.2	C	269	0.76	24.2	C	269	0.78	25.6	C	275	0.71	22.3	C	243	0.71	22.4	C	245					0.73	23.5	C	250	0.72	23.1	C	257	0.72	23.2	C	258	0.74	24.4	C	264
		Intersection		27.0	C		Intersection	27.0	C		Intersection	27.2	C		Intersection	24.3	C		Intersection	24.4	C						Intersection	24.6	C		Intersection	24.5	C		Intersection	24.5	C		Intersection	24.8	C	

Table MA-T1

2033 No Action vs With Action vs With Action with Mitigation Conditions Level of Service Analysis

Signalized Intersections

#	Intersection & Approach	Weekday AM Peak Hour																Weekday Midday Peak Hour												Weekday PM Peak Hour											
		2033 No Action					2033 With Action						2033 With Action with Mitigation					2033 No Action					2033 With Action						2033 With Action with Mitigation						2033 No Action					2033 With Action						2033 With Action with Mitigation					
		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	
43	**Fifth Ave/E 30th St**																																								
	Eastbound	TR	1.94	448.7	F	568	TR	1.98	467.1	F	568	+	TR	1.91	435.4	F	579	TR	1.97	463.2	F	620	TR	2.00	478.1	F	621	+	TR	1.93	445.2	F	613	TR	2.21	563.1	F	584	TR	2.25	583.3	F	584	+	TR	2.18	548.4	F	598	
	Southbound	LT	0.92	4.2	A	36	LT	0.92	4.3	A	36		LT	0.94	10.3	B	54	LT	0.83	3.2	A	32	LT	0.83	3.1	A	32		LT	0.85	6.2	A	41	LT	0.95	5.2	A	39	LT	0.95	5.3	A	38							
		Intersection		135.0	F		Intersection		142.5	F			Intersection		137.2	F		Intersection		151.2	F		Intersection		157.7	F			Intersection		149.1	F		Intersection		199.2	F		Intersection		208.6	F			Intersection		200.2	F		
44	**Fifth Ave/E 31st St**																																								
	Westbound	LT	1.86	427.1	F	711	LT	1.97	476.0	F	760	+						LT	1.67	345.4	F	656	LT	1.77	386.0	F	700	+						LT	1.76	380.6	F	791	LT	1.81	403.6	F	819	+						
													L	0.51	33.7	C	98													0.42	29.5	C	86										L	0.57	35.3	D	115	
													T	1.82	412.8	F	641													1.37	210.5	F	553										T	1.88	435.1	F	707	U
	Southbound																	TR	0.96	36.2	D	387	TR	0.96	37.1	D	391		TR	0.96	37.1	D	391															
		T	1.00	45.0	D	414	T	1.00	46.7	D	416		T	0.97	38.4	D	405																	T	1.02	51.2	D	415	T	1.03	54.3	D	419		T	1.03	54.3	D	419	
		R	1.37	241.6	F	133	R	1.39	249.9	F	136	+	R	1.28	204.1	F	126																	R	2.35	670.5	F	241	R	2.43	705.7	F	247	+	R	2.43	705.7	F	247	U
		Intersection		167.6	F		Intersection		189.0	F			Intersection		142.7	F		Intersection		127.6	F		Intersection		144.1	F			Intersection		81.5	F		Intersection		197.0	F		Intersection		210.9	F			Intersection		198.3	F		
45	**Fifth Ave/E 33rd St**																																								
	Westbound	LT	0.92	63.1	E	311	LT	0.94	66.1	E	321		LT	0.94	66.1	E	321	LT	0.99	78.2	E	279	LT	1.00	81.4	F	286		LT	1.00	81.4	F	286	LT	1.07	100.8	F	319	LT	1.08	105.5	F	328	+	LT	1.08	105.5	F	328	U
	Southbound	T	0.76	4.6	A	22	T	0.76	4.5	A	20		T	0.76	4.5	A	21	T	0.83	7.2	A	29	T	0.85	7.5	A	29		T	0.85	7.5	A	29	T	0.97	10.3	B	21	T	0.98	11.3	B	20		T	0.98	11.3	B	20	
		R	0.66	6.3	A	6	R	0.91	13.6	B	7		R	0.91	13.6	B	7	R	1.18	98.3	F	8	R	1.26	132.5	F	9	+	R	1.26	132.5	F	9	U	R	1.68	320.1	F	51	R	1.73	341.9	F	53	+	R	1.73	341.9	F	53	U
		Intersection		13.4	B		Intersection		14.5	B			Intersection		14.5	B		Intersection		26.4	C		Intersection		30.6	C			Intersection		30.6	C		Intersection		47.8	D		Intersection		51.7	D			Intersection		51.8	D		
46	**Fifth Ave/E 34th St**																																								
	Eastbound	T	1.37	204.0	F	275	T	1.44	232.0	F	263	+	T	1.44	232.0	F	263	U	T	1.53	273.8	F	158	T	1.59	299.6	F	160	+	T	1.55	284.0	F	165	U	T	1.47	249.1	F	216	T	1.56	287.5	F	202	+	T	1.56	288.5	F	264	U
		R	0.70	29.1	C	106	R	0.71	29.0	C	98		R	0.71	29.0	C	98		R	0.85	32.9	C	70	R	0.85	33.1	C	68		R	0.85	33.5	C	70		R	0.69	29.2	C	83	R	0.70	29.3	C	74		R	0.70	30.2	C	87	
	Westbound	T	0.85	34.6	C	494	T	0.87	37.0	D	516		T	0.87	37.0	D	516		T	1.15	110.0	F	750	T	1.19	123.4	F	780	+	T	1.19	123.4	F	780	U	T	0.96	50.1	D	573	T	0.99	57.9	E	602	+	T	0.99	57.9	E	602	U
	Southbound	L	0.14	10.9	B	5	L	0.14	10.9	B	5		L	0.14	10.9	B	5		L	0.13	10.7	B	7	L	0.13	10.7	B	7		L	0.13	10.7	B	7		L	0.06	10.8	B	2	L	0.06	10.8	B	2		L	0.06	10.8	B	2	
		T	2.18	546.6	F	104	T	2.25	579.9	F	105	+	T	2.25	579.9	F	105	U	T	1.79	369.7	F	116	T	1.80	376.3	F	114	+	T	1.80	376.3	F	114	U	T	2.07	496.3	F	110	T	2.08	499.5	F	110	+	T	2.08	499.5	F	110	U
		R	0.35	11.3	B	5	R	0.35	11.2	B	5		R	0.35	11.2	B	5		R	0.28	11.0	B	4	R	0.29	11.0	B	4		R	0.29	11.0	B	4		R	0.13	10.7	B	2	R	0.15	10.9	B	2		R	0.15	10.9	B	2	
		Intersection		316.1	F		Intersection		339.3	F			Intersection		339.3	F		Intersection		236.7	F		Intersection		247.5	F			Intersection		244.7	F		Intersection		308.5	F		Intersection		316.7	F			Intersection		316.9	F		
47	**Fifth Ave/E 35th St**																																								
	Westbound	L	1.05	123.8	F	196	L	1.06	127.6	F	199	+	L	1.06	127.6	F	199	U	L	1.13	147.8	F	216	L	1.13	147.8	F	216		L	1.13	147.8	F	216		L	0.80	68.6	E	145	L	0.80	68.6	E	145		L	0.80	68.6	E	145	
		T	1.53	279.7	F	547	T	1.59	304.7	F	559	+	T	1.59	304.7	F	559	U	T	1.33	195.1	F	409	T	1.36	207.8	F	420	+	T	1.36	207.8	F	420	U	T	1.05	82.2	F	414	T	1.06	87.0	F	421	+	T	1.06	87.0	F	421	U
	Southbound	T	3.59	1171.4	F	638	T	3.71	1223.8	F	659	+	T	3.71	1223.8	F	659	U	T	2.65	753.3	F	727	T	2.71	779.4	F	730	+	T	2.71	779.3	F	731	U	T	3.15	974.6	F	795	T	3.17	982.5	F	792	+	T	3.17	982.5	F	792	U
		R	2.29	588.8	F	41	R	2.29	589.2	F	40		R	2.29	589.2	F	40		R	2.00	462.3	F	55	R	2.02	469.9	F	56	+	R	2.02	469.9	F	56	U	R	2.28	584.7	F	61	R	2.28	584.6	F	60		R	2.28	584.6	F	60	
		Intersection		866.7	F		Intersection		911.3	F			Intersection		911.3	F		Intersection		571.8	F		Intersection		591.4	F			Intersection		591.4	F		Intersection		704.7	F		Intersection		709.9	F			Intersection		709.9	F		
48	**Fifth Ave/E 36th St**																																								
	Eastbound	TR	0.94	49.2	D	300	TR	1.02	66.8	E	329	+	TR	1.02	66.8	E	328	U	TR	1.27	160.9	F	385	TR	1.30	173.9	F	394	+	TR	1.30	173.9	F	394	U	TR	0.94	47.3	D	341	TR	0.96	51.3	D	356		TR	0.96	51.3	D	357	
	Southbound	L	0.52	3.8	A	10	L	0.52	4.0	A	11		L	0.52	4.0	A	11		L	0.36	4.5	A	10	L	0.36	4.5	A	10		L	0.36	5.2	A	12		L	0.38	4.6	A	9	L	0.38	4.6	A	9		L	0.38	4.6	A	9	
		T	2.19	543.4	F	530	T	2.23	559.3	F	544	+	T	2.23	559.3	F	544	U	T	1.59	272.9	F	532	T	1.60	278.1	F	537	+	T	1.60	279.2	F	563	U	T	1.78	359.8	F	94	T	1.79	363.8	F	95	+	T	1.79	363.8	F	95	U
		Intersection		349.4	F		Intersection		361.8	F			Intersection		361.8	F		Intersection		211.2	F		Intersection		219.1	F			Intersection		219.7	F		Intersection		233.8	F		Intersection		236.0	F			Intersection		236.0	F		
49	**Fifth Ave/E 37th St**																																								
	Westbound	LT	0.99	55.1	E	380	LT	1.04	68.4	E	403	+	LT	1.04	68.4	E	403	U	LT	0.86	36.4	D	300	LT	0.87	37.8	D	308		LT	0.90	41.7	D	316		LT	1.25	152.1	F	515	LT	1.27	158.1	F	524	+	LT	1.27	158.1	F	524	U
	Southbound	T	2.42	667.6	F	1788	T	2.43	671.0	F	1794	+	T	2.43	671.0	F	1794	U	T	1.73	357.2	F	1173	T	1.74	360.7	F	1179	+	T	1.68	334.1	F	1165		T	2.20	569.3	F	1442	T	2.21	573.1	F	1449	+	T	2.21	573.1	F	1449	U
		R	0.67	30.2	C	177	R	0.67	30.2	C	177		R	0.67	30.2	C	177		R	0.71	31.5	C	197	R	0.71	31.5	C	197		R	0.69	29.7	C	193		R	0.75	34.6	C	224	R	0.75	34.6	C	224		R	0.75	34.6	C	224	
		Intersection		429.2	F		Intersection		431.7	F			Intersection		431.7	F		Intersection		211.4	F		Intersection		213.1	F			Intersection		199.8	F		Intersection		354.6	F		Intersection		358.4	F			Intersection		358.4	F		
50	**Broadway/W 30th St**																																								
	Eastbound	T	1.08	49.8	D	75	T	1.10	60.5	E	73	+	T	1.07	46.7	D	74		T	1.02	29.2	C	81	T	1.04	36.0	D	79		T	1.04	36.3	D	79		T	1.34	168.2	F	130	T	1.37	180.5	F	122	+	T	1.33	163.7	F	126	
		R	0.33	9.3	A	6	R	0.33	9.1	A	6		R	0.32	8.8	A	6		R	0.42	10.3	B	11	R	0.43	10.2	B	10		R	0.43	10.0	B	10		R	0.39	10.7	B	9	R	0.40	10.6	B	9		R	0.38	10.1	B	9	
	Southbound	L	0.10	16.7	B	21	L	0.10	15.7	B	20		L	0.10	16.3	B	20		L	0.12	11.4	B	21	L	0.12	10.7	B	20		L	0.12	11.0	B	20		L	0.11	15.4	B	25	L	0.11	15.2	B	24		L	0.12	15.5	B	25	
		T	0.09	9.0	A	22	T	0.10	8.7	A	22		T	0.10	9.2	A	23		T	0.12	5.8	A	22	T	0.13	5.6	A	23		T	0.13	6.0	A	23		T	0.08	7.8	A	18	T	0.08	7.7	A	18		T	0.08	8.0	A	19	
		Intersection		41.6	D		Intersection		49.9	D			Intersection		39.1	D		Intersection		23.7	C		Intersection		28.4	C			Intersection		28.7	C		Intersection		140.4	F		Intersection		150.7	F			Intersection		136.9	F		
51	**Broadway/W 31st St**																																								
	Westbound	LT	1.76	391.6	F	200	LT	1.88	444.7	F	203	+	LT	1.75	386.8	F	228		LT	1.76	391.2	F	304	LT	1.86	435.9	F	314	+	LT	1.73	375.8	F	392		LT	1.73	370.8	F	203	LT	1.78	394.8	F	203	+	LT	1.72	368.3	F	198	
	Southbound	TR	0.11	23.4	C	66	TR	0.14	23.4	C	78		TR	0.15	23.9	C	79		TR	0.20	25.7	C	109	TR	0.24	25.3	C	121		TR	0.25	25.7	C	121		TR	0.13	26.2	C	85	TR	0.14	24.9	C	89		TR	0.14	24.9	C	89	
		Intersection		358.3	F		Intersection		401.9	F			Intersection		349.9	F		Intersection		337.0	F		Intersection		370.4	F			Intersection		319.9	F		Intersection		338.6	F		Intersection		359.6	F			Intersection		335.7	F		
52	**Broadway/W 32nd St**																																								
	Eastbound	TR	0.49	12.6	B	135	TR	0.55	12.1	B	130		TR	0.55	12.6	B	133		TR	0.52	15.0	B	148	TR	0.59	14.4	B	141		TR	0.59	14.6	B	142		TR	0.47	16.1	B	174	TR	0.52	15.2	B	179		TR	0.52	15.0	B	180	
		Intersection		12.6	B		Intersection		12.1	B			Intersection		12.6	B		Intersection		15.0	B		Intersection		14.4	B			Intersection		14.6	B		Intersection		16.1	B		Intersection		15.2	B			Intersection		15.0	B		
53	**Sixth Ave/W 23rd St**																																								
	Eastbound	T	1.27	153.4	F	530	T	1.28	156.6	F	532	+	T	1.28	156.6	F	532	U	T	1.04	51.7	D	240	T	1.06	56.8	E	242	+	T	1.06	56.8	E	242	U	T	1.08	76.7	E	471	T	1.09	77.9	E	468		T	1.09	77.9	E	468	
	Westbound	T	0.84	56.1	E	325	T	0.85	56.9	E	330		T	0.85	55.5	E	323		T	0.94	65.0	E	392	T	0.95	66.8	E	401		T	0.95	65.7	E	400		T	0.89	61.7	E	417	T	0.90	62.8	E	424		T	0.90	61.4	E	414	
	Northbound	L	0.80	60.3	E	135	L	0.81	61.4	E	136		L	0.81	61.4	E	136		L	0.56	33.9	C	114	L	0.57	34.1	C	114		L	0.57	34.1	C	114		L	1.30	208.9	F	199	L	1.31	213.6	F	199	+	L	1.31	213.6	F	199	U
		T	0.86	24.7	C	286	T	0.86	24.9	C	288		T	0.86	24.9	C	288		T	0.80	22.5	C	257	T	0.81	22.6	C	259		T	0.81	22.6	C	259		T	0.86	24.6	C	322	T	0.87	24.8	C	324		T	0.87	24.8	C	324	
		R	1.37	222.7	F	315	R	1.38	226.1	F	316	+	R	1.38	226.1	F	316	U	R	1.58	313.6	F	363	R	1.58	313.6	F	363		R	1.58	313.6	F	363		R	0.41	27.5	C	51	R	0.42	27.7	C	51		R	0.42	27.7	C	51	
		Intersection		73.0	E		Intersection		74.2	E			Intersection		74.0	E		Intersection		61.1	E		Intersection		62.3	E			Intersection		62.1	E		Intersection		48.4	D		Intersection		49.1	D			Intersection		48.9	D		
54	**Sixth Ave/W 30th St**																																								
	Eastbound	LT	1.66	327.0	F	161	LT	1.72	354.1	F	142	+	LT	1.66	326.1	F	134		LT	1.50	256.9	F	330	LT	1.57	286.0	F	342	+	LT	1.46	236.7	F	331		LT	1.68	333.8	F	172	LT	1.75	367.1	F	149	+	LT	1.63	312.6	F	139	
	Northbound	TR	0.82	22.7	C	304	TR	0.83	22.9	C	306		TR	0.85	24.3	C	314		TR	0.80	23.8	C	280	TR	0.81	24.0	C	282		TR	0.85	27.0	C	296		TR	0.81	22.3	C	297	TR	0.82	22.4	C	299		TR	0.86	25.4	C	315	
		Intersection		103.8	F		Intersection		113.0	F			Intersection		106.5	F		Intersection		88.1	F		Intersection		97.9	F			Intersection		86.2	F		Intersection		113.5	F		Intersection		125.8	F			Intersection		111.6	F		
55	**Sixth Ave/W 31st St**																																								
	Westbound	T	0.98	30.0	C	59	T	1.06	55.9	E	62	+	T	1.06	54.8	D	63	U	T	0.99	32.8	C	67	T	1.06	54.8	D	71	+	T	1.06	53.6	D	71	U	T	1.12	82.5	F	83	T	1.16	100.1	F	84	+	T	1.16	99.5	F	84	U
		R	0.57	20.7	C	16	R	0.59	21.2	C	16		R	0.59	20.1	C	16		R	0.55	21.5	C	19	R	0.60	22.1	C	20		R	0.60	20.9	C	20		R	0.61	23.5	C	18	R	0.72	25.2	C	19		R	0.72	24.6	C	18	
	Northbound	L	2.96	903.9	F	203	L	3.00	923.0	F	206	+	L	3.00	922.4	F	201	U	L	2.91	887.7	F	206	L	3.03	941.2	F	215	+	L	3.03	939.8	F	206	U	L	2.05	495.9	F	195	L	2.31	608.8	F	213	+	L	2.31	608.0	F	204	U
		T	0.93	9.9	A	36	T	0.93	10.2	B	37		T	0.93	10.1	B	37		T	0.89	9.1	A	34	T	0.89	9.5	A	35		T	0.90	9.4	A	35		T	0.78	4.5	A	28	T	0.78	4.8	A	30		T	0.78	4.8	A	30	
		Intersection		86.3	F		Intersection		92.5	F			Intersection		92.2	F		Intersection		86.3	F		Intersection		96.8	F			Intersection		96.3	F		Intersection		69.4	E		Intersection		85.3	F			Intersection		85.1	F		
56	**Sixth Ave/W 32nd St**																																								
	Eastbound	LT	0.83	53.6	D	241	LT	0.94	66.3	E	276	+	LT	0.87	54.7	D	261		LT	0.73	43.3	D	123	LT	0.87	43.5	D	130		LT	0.84	45.1	D	140		LT	0.55	38.5	D	134	LT	0.68	43.3	D	172		LT	0.68	43.3	D	172	
	Northbound	TR	0.87	8.5	A	79	TR	0.88	8.8	A	80		TR	0.92	12.3	B	96		TR	0.83	8.2	A	81	TR	0.85	8.7	A	83		TR	0.87	10.0	B	91		TR	0.74	5.8	A	58	TR	0.76	5.9	A	60		TR	0.76	5.3	A	59	
		Intersection		14.1	B		Intersection		16.7	B			Intersection		18.1	B		Intersection		12.6	B		Intersection		13.7	B			Intersection		15.1	B		Intersection		9.1	A		Intersection		10.6	B			Intersection		10.1	B		
57	**Sixth Ave/W 33rd St**																																								
	Westbound	TR	0.76	38.3	D	171	TR	0.91	44.6	D	183		TR	0.91	44.6	D	183		TR	0.67	28.4	C	113	TR	0.72	29.1	C	118		TR	0.72	29.1	C	118		TR	0.66	29.1	C	88	TR	0.69	29.6	C	89		TR	0.69	29.6	C	89	
	Northbound	T	0.68	1.7	A	15	T	0.69	1.8	A	17		T	0.69	1.8	A	16		T	0.65	2.0	A	16	T	0.66	2.1	A	18		T	0.66	2.1	A	18		T	0.53	1.4	A	10	T	0.54	1.5	A	12		T	0.54	1.5	A	12	
		Intersection		6.6	A		Intersection		8.5	A			Intersection		8.5	A		Intersection		5.5	A		Intersection		5.9	A			Intersection		5.9	A		Intersection		5.5	A		Intersection		5.8	A			Intersection		5.8	A		
58	**Sixth Ave/W 34th St**																																								
	Eastbound	T	1.31	178.8	F	718	T	1.41	224.7	F	760	+	T	1.41	224.7	F	760	U	T	2.39	664.3	F	748	T	2.46	696.0	F	775	+	T	2.38	659.9	F	761		T	1.51	269.5	F	785	T	1.69	348.9	F	844	+	T	1.44	234.6	F	797	
	Westbound	T	1.14	88.7	F	517	T	1.18	104.6	F	525	+	T	1.18	104.6	F	525	U	T	1.34	166.3	F	443	T	1.39	185.8	F	446	+	T	1.35	167.7	F	436		T	1.20	105.6	F	470	T	1.24	125.2	F	477	+	T	1.17	93.6	F	457	
		R	1.12	134.5	F	96	R	1.12	132.9	F	93		R	1.12	132.9	F	93		R	0.54	22.5	C	26	R	0.54	22.4	C	25		R	0.49	21.2	C	24		R	0.72	39.6	D	35	R	0.72	37.9	D	34		R	0.61	28.6	C	31	
	Northbound	T	0.69	1.9	A	8	T	0.70	2.0	A	8		T	0.70	2.0	A	8		T	0.66	3.0	A	19	T	0.67	3.0	A	19		T	0.69	3.2	A	20		T	0.57	2.3	A	15	T	0.58	2.3	A	15		T	0.60	3.0	A	20	
		Intersection		61.5	E		Intersection		75.3	E			Intersection		75.4	E		Intersection		190.4	F		Intersection		203.2	F			Intersection		190.8	F		Intersection		91.9	F		Intersection		117.7	F			Intersection		82.0	F		

Table MA-T1

2033 No Action vs With Action vs With Action with Mitigation Conditions Level of Service Analysis

Signalized Intersections

#	Intersection & Approach	Lane Group	Weekday AM Peak Hour: 2033 No Action v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	2033 With Action v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		2033 With Action with Mitigation v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Weekday Midday Peak Hour: 2033 No Action v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	2033 With Action v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		2033 With Action with Mitigation v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Weekday PM Peak Hour: 2033 No Action v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	2033 With Action v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		2033 With Action with Mitigation v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	
	Sixth Ave/W 35th St																																								
59	Westbound																TR	1.50	244.4	F	212	TR	1.53	255.7	F	211	+	TR	1.47	229.5	F	150										
		T	1.62	299.0	F	80	T	1.64	308.0	F	74	+	T	1.59	282.7	F	67																	T	1.69	328.4	F	265	T	1.74	351.6	F	274	+	T	1.62	296.3	F	263	
		R	1.24	124.0	F	41	R	1.24	124.1	F	39		R	1.21	111.2	F	34																	R	1.13	80.4	F	67	R	1.13	82.6	F	66		R	1.08	62.1	E	60	
	Northbound	LT	0.82	8.2	A	69	LT	0.83	8.4	A	70		LT	0.85	8.4	A	63	LT	0.74	7.5	A	57	LT	0.76	7.8	A	60		LT	0.78	8.3	A	61	LT	0.65	5.3	A	52	LT	0.66	5.4	A	52		LT	0.67	5.8	A	53	
		Intersection		60.1	E		Intersection		61.4	E			Intersection		56.6	E		Intersection		62.8	E		Intersection		65.8	E			Intersection		60.1	E		Intersection		74.7	E		Intersection		79.9	E			Intersection		67.6	E		
	Sixth Ave/W 36th St																																								
60	Eastbound	L	0.61	45.4	D	129	L	0.61	45.4	D	129		L	0.61	45.4	D	129	L	0.99	92.8	F	276	L	0.99	92.8	F	276		L	0.99	92.8	F	276	L	1.03	104.4	F	297	L	1.03	104.4	F	297		L	1.03	104.4	F	297	
		T	0.45	17.5	B	151	T	0.48	17.8	B	160		T	0.48	17.8	B	160	T	0.50	18.1	B	168	T	0.51	18.3	B	172		T	0.51	18.3	B	172	T	0.50	18.1	B	156	T	0.51	18.3	B	161		T	0.51	18.3	B	161	
	Northbound	T	1.28	138.6	F	531	T	1.37	179.0	F	552	+	T	1.37	178.5	F	554	U	T	1.12	68.2	E	407	T	1.14	75.3	E	412	+	T	1.14	73.6	E	413	U	T	0.77	10.4	B	118	T	0.78	10.6	B	123		T	0.78	10.1	B	120	
		R	1.04	70.2	E	139	R	1.10	86.4	F	149	+	R	1.10	85.1	F	144	U	R	1.12	87.5	F	220	R	1.15	99.7	F	224	+	R	1.15	98.3	F	137	U	R	0.73	19.9	B	128	R	0.76	22.3	C	176		R	0.76	21.8	C	178	
		Intersection		104.2	F		Intersection		131.3	F			Intersection		130.9	F		Intersection		60.5	E		Intersection		65.8	E			Intersection		64.7	E		Intersection		22.5	C		Intersection		22.8	C			Intersection		22.5	C		
	Sixth Ave/W 37th St																																								
61	Westbound	T	1.13	95.4	F	239	T	1.15	104.5	F	234	+	T	1.15	104.5	F	234	U	T	0.92	39.9	D	228	T	0.94	41.7	D	228		T	0.94	40.7	D	220		T	1.27	145.6	F	233	T	1.28	153.4	F	235	+	T	1.25	136.2	F	230	
		R	1.45	241.4	F	289	R	1.45	240.0	F	272		R	1.45	240.0	F	272		R	1.19	135.4	F	277	R	1.19	134.7	F	272		R	1.19	133.4	F	266		R	1.31	166.5	F	228	R	1.31	166.6	F	224		R	1.26	146.5	F	218	
	Northbound	LT	1.22	106.0	F	26	LT	1.22	106.9	F	24		LT	1.22	106.9	F	24		LT	1.04	26.6	C	47	LT	1.05	28.1	C	46		LT	1.05	28.1	C	46		LT	0.94	16.9	B	445	LT	0.94	17.3	B	449		LT	0.96	19.8	B	457	
		Intersection		120.9	F		Intersection		123.1	F			Intersection		123.1	F		Intersection		41.4	D		Intersection		42.6	D			Intersection		42.3	D		Intersection		67.8	E		Intersection		70.2	E			Intersection		64.9	E		
	Broadway/W 37th St																																								
62	Westbound	LT	0.59	35.4	D	157	LT	0.60	35.7	D	157		LT	0.60	35.7	D	157		LT	0.59	40.3	D	206	LT	0.60	40.4	D	205		LT	0.60	40.4	D	205		LT	0.71	38.8	D	187	LT	0.72	39.0	D	187		LT	0.72	37.5	D	186	
	Southbound	TR	0.07	18.2	B	25	TR	0.07	18.2	B	25		TR	0.07	18.2	B	25		TR	0.07	19.6	B	27	TR	0.07	19.6	B	27		TR	0.07	19.6	B	27		TR	0.06	18.1	B	26	TR	0.06	18.1	B	26		TR	0.06	18.1	B	26	
		Intersection		34.7	C		Intersection		35.0	C			Intersection		35.0	C		Intersection		39.3	D		Intersection		39.5	D			Intersection		39.5	D		Intersection		38.1	D		Intersection		38.3	D			Intersection		36.9	D		
	Seventh Ave/W 23rd St																																								
63	Eastbound	T	0.95	20.9	C	133	T	0.95	20.7	C	130		T	0.95	20.7	C	130		T	1.28	165.2	F	190	T	1.29	166.7	F	178		T	1.29	172.0	F	268	U	T	0.88	37.6	D	236	T	0.88	37.6	D	236		T	0.88	37.6	D	236	
		R	0.88	19.2	B	0	R	0.88	19.2	B	0		R	0.88	19.2	B	0		R	0.91	39.3	D	94	R	0.91	39.4	D	91		R	0.91	49.3	D	117	U	R	0.70	33.6	C	81	R	0.70	33.6	C	81		R	0.70	33.6	C	81	
	Westbound	T	1.05	76.4	E	389	T	1.06	79.1	E	390		T	1.06	79.0	E	390		T	1.22	140.9	F	439	T	1.23	145.3	F	439	+	T	1.23	145.3	F	438	U	T	1.21	130.0	F	406	T	1.22	133.5	F	404	+	T	1.22	133.5	F	404	U
	Southbound	L	0.88	69.1	E	215	L	0.89	71.1	E	218		L	0.89	71.1	E	218		L	0.84	63.7	E	233	L	0.86	67.2	E	241		L	0.86	67.2	E	241		L	0.83	61.2	E	197	L	0.83	62.1	E	200		L	0.83	62.1	E	200	
		T	0.97	38.1	D	426	T	0.99	40.9	D	434		T	0.99	40.9	D	434		TR	1.01	47.3	D	408	TR	1.03	54.1	D	420	+	TR	1.03	54.1	D	420	U	T	0.87	25.7	C	338	T	0.89	27.5	C	364		T	0.89	27.5	C	364	
		R	0.60	25.7	C	133	R	0.62	26.9	C	148		R	0.62	26.9	C	148																			R	1.17	140.0	F	256	R	1.22	158.8	F	266	+	R	1.22	158.8	F	266	U
		Intersection		41.7	D		Intersection		43.8	D			Intersection		43.8	D		Intersection		81.2	F		Intersection		86.0	F			Intersection		87.3	F		Intersection		57.3	E		Intersection		60.4	E			Intersection		60.3	E		
	Seventh Ave/W 26th St																																								
64	Eastbound	T	1.19	131.4	F	136	T	1.19	133.3	F	135		T	1.19	133.6	F	138		T	1.53	265.1	F	154	T	1.53	265.2	F	155		T	1.22	123.9	F	147		T	1.06	60.4	E	139	T	1.07	64.0	E	138		T	1.04	51.8	D	140	
		R	0.94	52.4	D	78	R	0.94	52.4	D	76		R	0.94	52.8	D	78		R	0.85	25.4	C	71	R	0.85	25.5	C	70		R	0.85	25.5	C	70		R	0.76	23.7	C	74	R	0.76	23.7	C	73		R	0.72	22.7	C	74	
	Southbound	L	1.71	364.6	F	320	L	1.74	377.8	F	323	+	L	0.70	38.1	D	248		L	1.75	381.3	F	315	L	1.78	395.8	F	318	+	L	0.66	36.4	D	234		L	2.27	633.4	F	259	L	2.27	633.4	F	259		L	0.41	29.4	C	146	
		T	1.30	164.8	F	562	T	1.32	171.4	F	571	+	T	1.16	100.9	F	530		T	1.16	103.7	F	443	T	1.18	111.8	F	454	+	T	0.92	32.1	C	380		T	0.96	39.0	D	358	T	0.98	42.5	D	369		T	0.72	21.1	C	260	
		Intersection		178.3	F		Intersection		184.7	F			Intersection		93.8	F		Intersection		158.1	F		Intersection		164.8	F			Intersection		45.1	D		Intersection		100.0	F		Intersection		102.1	F			Intersection		25.8	C		
	Seventh Ave/W 29th St																																								
65	Westbound	L	0.70	39.0	D	185	L	0.70	39.0	D	185		L	0.70	39.0	D	185		L	0.66	37.3	D	170	L	0.66	37.3	D	170		L	0.66	37.3	D	170		L	0.66	36.3	D	146	L	0.66	36.3	D	146		L	0.66	36.3	D	146	
		T	1.43	248.3	F	359	T	1.45	254.1	F	361	+	T	1.45	254.1	F	361	U	T	1.05	104.6	F	292	T	1.06	107.3	F	292		T	1.06	107.3	F	292		T	1.61	320.4	F	502	T	1.62	325.6	F	506	+	T	1.62	325.6	F	506	U
	Southbound	TR	1.08	42.4	D	44	TR	1.10	53.6	D	45	+	TR	1.10	53.6	D	45	U	TR	0.82	9.2	A	75	TR	0.85	9.9	A	86		TR	0.85	10.1	B	109							T	0.84	7.1	A	50	T	0.90	7.0	A	55		T	0.90	7.0	A	55	
																																								R	2.28	597.7	F	105	R	2.58	723.3	F	123	+	R	2.58	723.2	F	124	U
		Intersection		72.1	E		Intersection		81.4	F			Intersection		81.4	F		Intersection		25.1	C		Intersection		25.8	C			Intersection		26.0	C		Intersection		109.2	F		Intersection		123.3	F			Intersection		123.3	F		
	Seventh Ave/W 30th St																																								
66	Eastbound	T	1.19	112.3	F	122	T	1.38	198.1	F	172	+	T	1.41	212.5	F	178	U	T	0.71	24.6	C	107	T	0.74	25.3	C	105		T	0.77	25.8	C	105		T	1.38	199.0	F	187	T	1.61	301.2	F	205	+	T	1.61	303.6	F	208	U
		R	0.90	28.0	C	57	R	0.95	31.8	C	56		R	0.95	31.7	C	59		R	0.73	26.0	C	57	R	0.77	26.9	C	55		R	0.80	28.0	C	56		R	0.95	35.8	D	58	R	1.00	44.2	D	57		R	1.00	43.8	D	57	
	Southbound	L	5.32	1961.5	F	377	L	5.48	2029.5	F	373	+	L	5.48	2030.0	F	376	U	L	2.96	902.1	F	414	L	3.19	1004.1	F	403	+	L	2.96	901.1	F	397		L	4.08	1404.6	F	381	L	4.28	1490.6	F	367	+	L	4.28	1490.5	F	367	U
		T	1.19	94.1	F	328	T	1.20	100.7	F	321	+	T	1.20	100.8	F	325	U	T	0.89	14.1	B	277	T	0.91	14.7	B	119		T	0.89	13.4	B	92		T	1.01	25.0	C	154	T	1.03	29.5	C	84		T	1.03	29.5	C	82	
		Intersection		404.1	F		Intersection		430.2	F			Intersection		432.6	F		Intersection		199.6	F		Intersection		220.7	F			Intersection		199.1	F		Intersection		293.9	F		Intersection		329.5	F			Intersection		329.9	F		
	Seventh Ave/W 31st St																																								
67	Westbound	L	0.34	17.1	B	53	L	0.36	17.4	B	52		L	0.36	17.5	B	52		L	0.42	17.7	B	68	L	0.49	18.8	B	69		L	0.49	18.9	B	69		L	0.54	20.0	B	89	L	0.62	21.3	C	89		L	0.62	21.4	C	89	
		T	1.02	44.2	D	234	T	1.10	74.1	E	237	+	T	1.10	74.3	E	237	U	T	1.04	50.5	D	257	T	1.77	375.2	F	339	+	T	1.77	375.3	F	341	U	T	2.32	621.5	F	465	T	2.39	655.4	F	458	+	T	2.39	655.4	F	457	U
	Southbound	T	1.05	38.7	D	447	T	1.08	51.4	D	461	+	T	1.08	47.1	D	459	U	T	0.84	6.5	A	30	T	0.90	6.3	A	29		T	0.91	10.9	B	66		T	1.01	25.7	C	396	T	1.08	49.6	D	428	+	T	1.08	49.8	D	428	U
		R	0.85	37.7	D	126	R	0.89	43.5	D	144		R	0.89	43.0	D	144		R	1.02	56.7	E	145	R	1.07	56.3	E	123		R	1.07	72.3	E	155	U	R	1.03	72.8	E	238	R	1.14	105.0	F	230	+	R	1.14	104.6	F	230	U
		Intersection		38.6	D		Intersection		53.9	D			Intersection		51.2	D		Intersection		23.8	C		Intersection		107.5	F			Intersection		111.8	F		Intersection		181.7	F		Intersection		206.9	F			Intersection		206.9	F		
	Seventh Ave/W 32nd St																																								
68	Southbound	L	0.72	8.6	A	28	L	0.76	8.5	A	29		L	0.76	8.4	A	26		L	0.93	34.3	C	170	L	1.06	65.0	E	151	+	L	1.00	46.3	D	153	U	L	0.57	7.4	A	27	L	0.67	9.1	A	44		L	0.67	9.3	A	37	
		T	0.83	6.7	A	76	T	0.85	6.4	A	75		T	0.85	6.6	A	72		T	0.97	23.1	C	372	T	1.06	45.9	D	402	+	T	0.99	26.9	C	392		T	0.76	6.7	A	79	T	0.87	9.5	A	139		T	0.87	10.2	B	152	
		Intersection		7.0	A		Intersection		6.8	A			Intersection		6.9	A		Intersection		25.2	C		Intersection		49.6	D			Intersection		30.6	C		Intersection		6.8	A		Intersection		9.5	A			Intersection		10.0	B		
	Seventh Ave/W 33rd St																																								
69	Westbound	L	1.41	220.5	F	251	L	1.54	271.7	F	197	+	L	1.43	221.1	F	181		L	1.30	181.1	F	236	L	1.39	218.9	F	233	+	L	1.24	151.0	F	209		L	1.40	224.5	F	297	L	1.64	331.2	F	361	+	L	1.40	223.0	F	326	
	Southbound	T	0.85	2.8	A	4	T	0.87	3.0	A	1		T	0.91	3.7	A	1		T	0.71	2.7	A	11	T	0.75	3.0	A	11		T	0.78	3.4	A	12		T	0.74	2.6	A	9	T	0.77	2.8	A	9		T	0.82	3.5	A	9	
		Intersection		31.8	C		Intersection		38.1	D			Intersection		32.1	C		Intersection		25.8	C		Intersection		30.9	C			Intersection		22.5	C		Intersection		34.2	C		Intersection		54.8	D			Intersection		38.3	D		
	Seventh Ave/W 34th St																																								
70	Eastbound	TR	1.24	128.1	F	371	TR	1.27	144.2	F	369	+	TR	1.24	128.6	F	359		TR	1.34	172.6	F	151	TR	1.38	188.5	F	120	+	TR	1.38	188.5	F	120	U	TR	1.35	175.7	F	498	TR	1.40	199.9	F	497	+	TR	1.32	164.6	F	476	
	Westbound	T	1.05	77.4	E	578	T	1.14	110.6	F	621	+	T	1.06	79.8	E	595		T	1.23	144.8	F	763	T	1.28	162.9	F	797	+	T	1.28	162.9	F	797	U	T	1.56	292.9	F	675	T	1.63	322.2	F	707	+	T	1.52	274.1	F	692	
	Southbound	T	0.92	11.6	B	104	T	0.95	13.2	B	106		T	0.97	16.3	B	114		T	0.74	8.5	A	100	T	0.77	8.9	A	105		T	0.77	8.8	A	105		T	0.76	8.7	A	89	T	0.79	9.0	A	91		T	0.83	11.6	B	105	
		Intersection		51.5	D		Intersection		62.8	E			Intersection		54.8	D		Intersection		86.4	F		Intersection		94.8	F			Intersection		94.8	F		Intersection		112.1	F		Intersection		125.2	F			Intersection		107.1	F		
	Seventh Ave/W 35th St																																								
71	Westbound	L	0.68	39.8	D	193	L	0.72	42.7	D	210		L	0.72	42.7	D	210		L	0.60	35.1	D	160	L	0.65	37.3	D	180		L	0.65	37.3	D	180		L	0.57	34.4	C	139	L	0.60	35.6	D	146		L	0.60	35.6	D	146	
		T	0.67	34.8	C	210	T	0.67	35.1	D	212		T	0.67	35.1	D	212		T	0.49	28.8	C	173	T	0.50	29.0	C	177		T	0.50	29.0	C	177		T	0.74	37.4	D	313	T	0.74	37.6	D	315		T	0.74	37.6	D	315	
	Southbound	TR	0.98	11.5	B	34	TR	1.00	10.6	B	35		TR	1.00	10.6	B	34		TR	0.85	6.5	A	47	TR	0.87	6.9	A	50		TR	0.87	6.7	A	47		TR	0.97	6.3	A	36	TR	0.99	8.9	A	39		TR	0.99	8.9	A	39	
		Intersection		17.2	B		Intersection		16.9	B			Intersection		16.9	B		Intersection		12.2	B		Intersection		12.8	B			Intersection		12.7	B		Intersection		13.6	B		Intersection		15.7	B			Intersection		15.7	B		
	Seventh Ave/W 36th St																																								
72	Eastbound	TR	0.90	35.5	D	224	TR	0.96	42.1	D	234		TR	0.96	42.1	D	234		TR	1.06	53.2	D	210	TR	1.11	74.2	E	227	+	TR	1.07	57.0	E	195		TR	0.97	29.2	C	200	TR	1.03	42.3	D	210		TR	1.03	42.3	D	210	
	Southbound	L	0.78	13.7	B	54	L	0.81	14.5	B	58		L	0.81	14.4	B	57		L	0.86	25.7	C	228	L	0.87	26.0	C	224		L	0.89	28.6	C	224		L	0.87	22.2	C	105	L	0.87	21.9	C	101		L	0.87	21.9	C	101	
		T	0.99	20.8	C	378	T	1.03	31.9	C	387		T	1.03	31.9	C	384		T	0.93	19.2	B	317	T	0.95	21.5	C	330		T	0.98	25.1	C	341		T	1.02	32.5	C	381	T	1.04	39.4	D	391		T	1.04	39.4	D	391	
		Intersection		23.8	C		Intersection		32.7	C			Intersection		32.7	C		Intersection		31.1	C		Intersection		39.5	D			Intersection		36.1	D		Intersection		30.3	C		Intersection		38.2	D			Intersection		38.2	D		
	Seventh Ave/W 37th St																																								
73	Westbound	LT	1.28dl	92.0	F	334	LT	1.31dl	100.4	F	345	+	LT	1.26dl	82.3	F	337		LT	1.04	56.2	E	316	LT	1.06	62.5	E	324	+	LT	1.02	49.7	D	316		LT	1.12	82.6	F	376	LT	1.14	89.3	F	380	+	LT	1.14	91.4	F	388	U
	Southbound	TR	0.88	26.5	C	350	TR	0.89	27.7	C	373		TR	0.91	30.2	C	408		TR	0.75	21.0	C	263	TR	0.76	21.5	C	272		TR	0.78	22.7	C	279		TR	0.83	23.6	C	327	TR	0.84	24.1	C	335		TR	0.84	24.1	C	335	
		Intersection		46.9	D		Intersection		50.3	D			Intersection		46.4	D		Intersection		32.9	C		Intersection		35.3	D			Intersection		31.8	C		Intersection		43.3	D		Intersection		45.9	D			Intersection		46.5	D		
	Seventh Ave/W 42nd St																																								
74	Eastbound	T	0.93	31.6	C	222	T	0.94	31.8	C	222		T	0.94	31.8	C	222		T	1.64	314.8	F	538	T	1.65	319.3	F	538	+	T	1.65	319.3	F	538	U	T	0.78	27.7	C	295	T	0.78	27.7	C	295		T	0.78	26.7	C	294	
	Westbound	LT	0.75	36.2	D	326	LT	0.76	36.3	D	327		LT	0.76	36.3	D	327		LT	0.87	46.7	D	375	LT	0.87	46.9	D	376		LT	0.87	46.9	D	376		LT	0.76	36.9	D	278	LT	0.76	37.0	D	279		LT	0.76	37.0	D	279	
	Southbound	L	0.29	12.1	B	97	L	0.29	12.1	B	97		L	0.29	12.1	B	97		L	0.30	12.2	B	106	L	0.30	12.2	B	106		L	0.30	12.2	B	106		L	0.25	11.6	B	88	L	0.25	11.6	B	88		L	0.25	11.6	B	88	
		T	0.93	29.9	C	546	T	0.93	30.5	C	550		T	0.93	30.5	C	550		T	0.78	20.3	C	362	T	0.79	20.5	C	368		T	0.79	20.5	C	368		T	0.87	25.1	C	443	T	0.88	25.7	C	460		T	0.88	25.7	C	460	
		R	0.79	85.1	F	74	R	0.79	85.1	F	74		R	0.79	85.1	F	74		R	1.11	178.9	F	74	R	1.11	178.9	F	74		R	1.11	178.9	F	74		R	1.59	354.5	F	127	R	1.59	354.5	F	127		R	1.59	354.5	F	127	
		Intersection		30.8	C		Intersection		31.1	C			Intersection		31.1	C		Intersection		104.1	F		Intersection		105.4	F			Intersection		105.4	F		Intersection		38.7	D		Intersection		39.0	D			Intersection		38.8	D		

Table MA-T1
2033 No Action vs With Action vs With Action with Mitigation Conditions Level of Service Analysis
Signalized Intersections

#	Intersection & Approach	Weekday AM Peak Hour																Weekday Midday Peak Hour												Weekday PM Peak Hour											
		2033 No Action					2033 With Action						2033 With Action with Mitigation						2033 No Action					2033 With Action						2033 With Action with Mitigation						2033 No Action					2033 With Action						2033 With Action with Mitigation					
		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	
Eighth Ave/W 23rd St																																										
75	Eastbound	T	1.10	103.4	F	488	T	1.10	102.6	F	487		T	1.10	102.6	F	487		T	1.34	205.4	F	476	T	1.39	224.8	F	484	+	T	1.01	79.2	E	419		T	1.04	83.8	F	413	T	1.04	84.4	F	414		T	1.04	84.4	F	414	
	Westbound																		TR	1.45	221.9	F	342	TR	1.47	232.1	F	344	+																					
		T	1.48	254.9	F	320	T	1.50	263.2	F	325	+	T	1.50	263.2	F	325	U													T	1.22	122.7	F	118		T	2.01	479.1	F	377	T	2.04	491.3	F	377	+	T	2.04	491.3	F	377	U
		R	0.96	59.4	E	170	R	0.98	62.0	E	174		R	0.98	62.0	E	174													R	1.03	47.4	D	70		R	1.21	123.3	F	175	R	1.23	131.6	F	175	+	R	1.23	131.5	F	175	U
	Northbound	L	0.81	67.3	E	193	L	0.81	67.3	E	193		L	0.81	67.3	E	193		L	1.15	154.6	F	224	L	1.15	154.6	F	224		L	1.07	124.2	F	217		L	0.74	61.9	E	135	L	0.74	61.9	E	135		L	0.74	61.9	E	135	
		TR	1.13	90.3	F	472	TR	1.14	97.0	F	483	+	TR	1.14	97.0	F	483	U	TR	1.29	160.7	F	469	TR	1.31	167.6	F	478	+	TR	1.26	148.0	F	469		TR	1.15	97.7	F	503	TR	1.16	102.8	F	512	+	TR	1.16	102.8	F	512	U
		Intersection		110.3	F		Intersection		115.3	F			Intersection		115.3	F			Intersection		180.1	F		Intersection		189.0	F			Intersection		123.4	F			Intersection		160.3	F		Intersection		166.3	F			Intersection		166.3	F		
Eighth Ave/W 26th St																																										
76	Eastbound	LT	1.38	209.9	F	411	LT	1.39	214.8	F	415	+	LT	1.34	191.8	F	406		LT	1.56	282.0	F	413	LT	1.56	281.9	F	412		LT	1.56	281.9	F	412		LT	1.17	98.9	F	105	LT	1.18	102.4	F	106	+	LT	1.14	83.4	F	97	
	Northbound	TR	0.78	20.8	C	264	TR	0.80	21.2	C	271		TR	0.81	22.5	C	279		TR	0.70	19.8	B	207	TR	0.71	20.1	C	212		TR	0.71	20.1	C	212		TR	0.74	19.5	B	248	TR	0.75	19.8	B	253		TR	0.77	20.8	C	260	
		Intersection		63.5	E		Intersection		64.7	E			Intersection		60.5	E			Intersection		91.3	F		Intersection		90.6	F			Intersection		90.6	F			Intersection		35.7	D		Intersection		36.5	D			Intersection		33.5	C		
Eighth Ave/W 29th St																																										
77	Westbound	TR	1.26	146.9	F	221	TR	1.30	163.7	F	234	+							TR	0.94	42.6	D	229	TR	0.97	48.2	D	243	+							TR	1.43	225.2	F	179	TR	1.51	258.8	F	186	+						
													T	0.67	22.4	C	116													T	0.47	20.9	C	121												T	0.71	26.8	C	98	
													R	0.61	21.8	C	62													R	0.45	21.2	C	71												R	0.78	29.0	C	67	
	Northbound	L	1.24	173.1	F	265	L	1.25	178.7	F	265	+	L	1.20	156.7	F	261		L	1.22	159.9	F	315	L	1.22	162.2	F	316		L	1.22	162.2	F	316		L	1.20	158.6	F	281	L	1.22	166.2	F	283	+	L	1.16	144.6	F	278	
		T	0.71	20.4	C	205	T	0.73	20.8	C	212		T	0.71	19.7	B	206		T	0.64	18.8	B	177	T	0.65	19.0	B	182		T	0.65	19.0	B	182		T	0.70	19.9	B	207	T	0.71	20.3	C	213		T	0.69	19.2	B	207	
		Intersection		67.8	E		Intersection		72.7	E			Intersection		35.1	D			Intersection		44.0	D		Intersection		45.3	D			Intersection		39.6	D			Intersection		86.9	F		Intersection		98.2	F			Intersection		33.6	C		
Eighth Ave/W 30th St																																										
78	Eastbound	L	1.82	398.6	F	559	L	2.01	484.2	F	567	+	L	1.93	445.4	F	569	U	L	1.69	349.2	F	570	L	1.94	461.9	F	598	+	L	1.85	422.0	F	590	U	L	1.86	421.4	F	583	L	2.00	483.7	F	585	+	L	1.91	443.4	F	577	U
		T	1.58	291.3	F	441	T	1.68	335.8	F	454	+	T	1.64	316.7	F	457	U	T	1.33	189.5	F	360	T	1.44	232.9	F	388	+	T	1.40	217.6	F	379	U	T	1.63	314.4	F	456	T	1.72	354.9	F	477	+	T	1.68	335.2	F	467	U
	Northbound	TR	0.78	9.3	A	47	TR	0.79	9.5	A	47		TR	0.81	12.2	B	66		TR	0.68	8.1	A	41	TR	0.70	8.1	A	41		TR	0.71	9.7	A	44		TR	0.79	10.4	B	57	TR	0.80	10.5	B	61		TR	0.82	13.4	B	120	
		Intersection		145.8	F		Intersection		175.6	F			Intersection		165.1	F			Intersection		119.7	F		Intersection		154.8	F			Intersection		143.7	F			Intersection		159.8	F		Intersection		182.3	F			Intersection		171.2	F		
Eighth Ave/W 31st St																																										
79	Westbound	T	0.48	21.4	C	91	T	0.54	21.7	C	97		T	0.54	21.7	C	97		T	0.36	16.0	B	55	T	0.40	17.0	B	41		T	0.40	17.0	B	41		T	0.60	19.2	B	58	T	0.65	19.3	B	59		T	0.65	19.3	B	59	
		R	1.27	161.5	F	246	R	1.33	183.0	F	239	+	R	1.33	183.0	F	240	U	R	1.44	225.1	F	280	R	1.52	260.3	F	137	+	R	1.52	260.3	F	137	U	R	1.73	358.6	F	98	R	1.79	385.1	F	94	+	R	1.79	385.1	F	95	U
	Northbound	L	0.82	28.4	C	107	L	0.85	29.2	C	106		L	0.85	29.5	C	103		L	0.70	29.3	C	116	L	0.73	27.2	C	116		L	0.73	27.4	C	113		L	1.28	157.0	F	255	L	1.29	160.4	F	243	+	L	1.29	160.7	F	238	U
		T	1.09	54.6	D	397	T	1.12	69.7	E	401	+	T	1.12	69.9	E	407	U	T	0.90	16.5	B	234	T	0.92	15.7	B	222		T	0.92	15.9	B	228		T	1.05	37.4	D	296	T	1.07	46.2	D	301	+	T	1.07	46.5	D	321	U
		Intersection		62.8	E		Intersection		75.9	E			Intersection		76.1	E			Intersection		52.5	D		Intersection		57.9	E			Intersection		58.1	E			Intersection		90.8	F		Intersection		100.2	F			Intersection		100.4	F		
Eighth Ave/W 33rd St																																										
80	Westbound	TR	0.23	19.9	B	55	TR	0.25	20.4	C	60		TR	0.26	21.2	C	61		TR	0.19	20.0	B	49	TR	0.22	20.4	C	55		TR	0.22	20.4	C	55		TR	0.36	21.6	C	116	TR	0.43	22.9	C	135		TR	0.44	23.9	C	138	
	Northbound	L	1.36	181.3	F	239	L	1.39	193.8	F	233	+	L	1.31	158.8	F	226		L	1.71	345.5	F	398	L	1.73	350.0	F	387	+	L	1.73	349.8	F	387	U	L	1.70	336.3	F	347	L	1.73	347.0	F	342	+	L	1.63	304.5	F	336	
		TR	1.37	174.9	F	393	TR	1.40	190.8	F	384	+	TR	1.37	173.0	F	376		TR	1.21	108.4	F	377	TR	1.24	119.3	F	374	+	TR	1.24	118.6	F	374	U	TR	1.24	119.2	F	328	TR	1.27	133.5	F	329	+	TR	1.25	119.7	F	323	
		Intersection		170.4	F		Intersection		184.7	F			Intersection		164.6	F			Intersection		160.8	F		Intersection		168.6	F			Intersection		168.1	F			Intersection		159.3	F		Intersection		170.0	F			Intersection		151.3	F		
Eighth Ave/W 34th St																																										
81	Eastbound	T	1.17	118.6	F	317	T	1.20	134.8	F	317	+	T	1.20	131.7	F	317	U	T	2.35	626.0	F	381	T	2.71	788.4	F	400	+	T	2.71	789.4	F	504	U	T	1.10	62.4	E	83	T	1.14	79.1	E	85	+	T	1.14	79.3	E	85	U
	Westbound	T	1.16	97.5	F	287	T	1.22	122.0	F	267	+	T	1.22	122.8	F	306	U	T	2.08	510.4	F	366	T	2.18	553.8	F	372	+	T	2.18	553.8	F	372	U	T	0.82	21.2	C	191	T	0.87	22.4	C	194		T	0.87	23.4	C	206	
		R	0.58	16.0	B	101	R	0.58	15.7	B	84		R	0.58	16.4	B	99		R	0.83	23.8	C	112	R	0.83	23.9	C	108		R	0.83	23.9	C	108		R	0.47	15.4	B	43	R	0.47	15.4	B	40		R	0.47	16.3	B	46	
	Northbound	L	0.61	15.0	B	41	L	0.62	15.2	B	40		L	0.62	14.8	B	41		L	0.58	14.7	B	46	L	0.60	15.0	B	47		L	0.60	15.0	B	47		L	0.65	14.4	B	49	L	0.65	14.9	B	50		L	0.65	16.2	B	52	
		TR	1.32	146.1	F	5	TR	1.37	166.4	F	6	+	TR	1.37	165.9	F	10	U	TR	1.26	122.0	F	383	TR	1.30	138.0	F	391	+	TR	1.30	138.0	F	391	U	TR	1.34	159.2	F	431	TR	1.41	189.7	F	452	+	TR	1.41	191.1	F	469	U
		Intersection		118.5	F		Intersection		136.5	F			Intersection		135.7	F			Intersection		300.4	F		Intersection		355.2	F			Intersection		355.5	F			Intersection		102.3	F		Intersection		122.3	F			Intersection		123.4	F		
Eighth Ave/W 36th St																																										
82	Eastbound	L	0.82	56.4	E	115	L	0.82	56.1	E	109		L	0.82	56.1	E	109		L	0.94	67.8	E	213	L	0.94	67.5	E	211		L	0.94	67.5	E	211		L	1.06	88.8	F	195	L	1.06	88.5	F	195		L	1.06	88.5	F	195	
		T	0.80	42.3	D	213	T	0.83	44.2	D	215		T	0.83	44.2	D	215		T	0.87	35.9	D	359	T	0.88	37.3	D	369		T	0.88	37.3	D	369		T	0.75	28.4	C	249	T	0.76	28.8	C	251		T	0.76	28.8	C	251	
	Northbound	T	1.70	343.1	F	764	T	1.83	400.8	F	791	+	T	1.83	400.8	F	791	U	T	1.96	459.7	F	761	T	1.99	474.9	F	774	+	T	1.99	474.9	F	774	U	T	1.85	410.8	F	716	T	1.88	422.9	F	727	+	T	1.88	422.9	F	727	U
		R	0.89	53.8	D	215	R	0.97	71.6	E	242	+	R	0.97	71.6	E	242	U	R	1.34	200.5	F	366	R	1.42	235.5	F	392	+	R	1.42	235.5	F	392	U	R	1.27	170.5	F	368	R	1.38	214.0	F	405	+	R	1.38	214.0	F	405	U
		Intersection		240.4	F		Intersection		277.5	F			Intersection		277.5	F			Intersection		311.7	F		Intersection		325.4	F			Intersection		325.4	F			Intersection		280.6	F		Intersection		293.7	F			Intersection		293.7	F		
Eighth Ave/W 37th St																																										
83	Westbound	T	0.54	34.3	C	136	T	0.55	34.5	C	137		T	0.57	36.0	D	141		T	0.65	39.8	D	199	T	0.65	39.5	D	194		T	0.65	40.3	D	197		T	0.84	44.3	D	256	T	0.84	41.8	D	253		T	0.84	41.7	D	253	
		R	0.73	43.6	D	85	R	0.73	43.7	D	82		R	0.76	45.6	D	85		R	1.11	121.5	F	154	R	1.12	121.6	F	149		R	1.12	124.7	F	154	U	R	0.88	57.0	E	123	R	0.88	49.9	D	120		R	0.88	49.9	D	120	
	Northbound	L	0.76	18.5	B	63	L	0.76	18.5	B	59		L	0.72	18.3	B	59		L	0.53	17.1	B	39	L	0.53	17.0	B	38		L	0.53	17.0	B	38		L	0.68	21.2	C	47	L	0.68	21.2	C	46		L	0.68	21.2	C	46	
		T	1.14	70.5	E	43	T	1.15	76.3	E	41	+	T	1.13	63.4	E	35		T	1.13	64.1	E	34	T	1.15	71.9	E	33	+	T	1.15	71.9	E	33	U	T	1.07	39.7	D	47	T	1.08	45.6	D	47	+	T	1.08	45.6	D	47	U
		Intersection		57.8	E		Intersection		61.8	E			Intersection		53.3	D			Intersection		62.2	E		Intersection		67.4	E			Intersection		67.8	E			Intersection		40.6	D		Intersection		43.1	D			Intersection		43.1	D		
Eighth Ave/W 42nd St																																										
84	Eastbound	L	1.11	102.1	F	213	L	1.11	102.1	F	213		L	1.11	102.1	F	213		L	1.17	120.7	F	156	L	1.17	120.7	F	156		L	1.17	120.7	F	156		L	0.80	51.0	D	166	L	0.80	51.0	D	166		L	0.84	54.2	D	166	
		T	0.39	17.4	B	101	T	0.39	17.4	B	101		T	0.39	17.4	B	101		T	0.77	22.4	C	220	T	0.77	22.4	C	220		T	0.77	22.4	C	220		T	0.41	18.5	B	236	T	0.41	18.5	B	236		T	0.42	19.4	B	236	
	Westbound	T	1.08	84.5	F	428	T	1.08	85.2	F	428		T	1.08	85.2	F	428		T	1.24	142.0	F	364	T	1.25	145.7	F	368	+	T	1.25	145.7	F	368	U	T	1.05	67.0	E	384	T	1.05	67.6	E	384		T	1.05	68.3	E	384	
		R	0.17	18.7	B	12	R	0.17	18.7	B	12		R	0.17	18.7	B	12		R	0.20	17.0	B	12	R	0.20	17.0	B	12		R	0.20	17.0	B	12		R	0.06	16.2	B	3	R	0.06	16.2	B	3		R	0.06	16.8	B	4	
	Northbound	T	1.13	98.3	F	375	T	1.14	101.6	F	379	+	T	1.14	101.6	F	379	U	T	1.17	113.1	F	388	T	1.18	118.8	F	395	+	T	1.18	118.8	F	395	U	T	1.11	90.6	F	377	T	1.12	94.1	F	381	+	T	1.09	79.4	E	373	
		R	5.73	2219.9	F	290	R	5.76	2233.5	F	291	+	R	5.76	2233.5	F	291	U	R	5.23	2000.4	F	288	R	5.32	2043.7	F	293	+	R	5.32	2043.7	F	293	U	R	3.75	1339.5	F	195	R	3.75	1339.5	F	195		R	3.64	1286.4	F	194	
		Intersection		228.7	F		Intersection		231.6	F			Intersection		231.6	F			Intersection		201.8	F		Intersection		209.0	F			Intersection		209.0	F			Intersection		127.0	F		Intersection		128.9	F			Intersection		118.6	F		
Ninth Ave/W 26th St																																										
85	Eastbound	T	1.19	149.7	F	346	T	1.19	149.7	F	346		T	1.19	149.7	F	346		T	1.30	197.0	F	376	T	1.30	197.0	F	376		T	1.30	197.0	F	376		T	1.23	162.5	F	374	T	1.24	165.2	F	377		T	1.24	165.2	F	377	
		R	0.83	56.3	E	191	R	0.83	56.3	E	191		R	0.83	56.3	E	191		R	0.78	52.1	D	182	R	0.78	52.1	D	182		R	0.78	52.1	D	182		R	0.49	31.7	C	104	R	0.49	31.7	C	104		R	0.49	31.7	C	104	
	Southbound	L	0.74	49.0	D	176	L	0.74	49.2	D	178		L	0.74	49.2	D	178		L	0.59	40.1	D	164	L	0.60	40.3	D	165		L	0.60	40.3	D	165		L	0.24	31.4	C	65	L	0.24	31.4	C	65		L	0.24	31.4	C	65	
		T	0.93	32.3	C	400	T	0.94	32.9	C	402		T	0.94	32.9	C	402		T	0.96	36.0	D	431	T	0.96	37.0	D	435		T	0.96	37.0	D	435		T	0.38	14.3	B	126	T	0.38	14.3	B	127		T	0.38	14.3	B	127	
		Intersection		51.2	D		Intersection		51.5	D			Intersection		51.5	D			Intersection		58.2	E		Intersection		58.9	E			Intersection		58.9	E			Intersection		50.0	D		Intersection		50.6	D			Intersection		50.6	D		
Ninth Ave/W 29th St																																										
86	Westbound	L	0.44	19.6	B	34	L	0.43	19.6	B	33		L	0.43	17.0	B	54		L	0.50	27.2	C	66	L	0.50	27.1	C	65		L	0.50	32.2	C	85		L	0.43	24.1	C	54	L	0.43	24.0	C	53		L	0.43	27.9	C	81	
		T	0.79	23.3	C	137	T	0.82	24.0	C	138		T	0.82	23.0	C	199		T	0.73	29.7	C	167	T	0.76	30.1	C	171		T	0.76	37.2	D	196		T	0.97	36.5	D	201	T	1.03	49.8	D	208	+	T	1.03	70.8	E	377	U
	Southbound	TR	1.09	61.2	E	503	TR	1.09	62.8	E	506		TR	1.09	63.0	E	510		TR	1.09	60.7	E	480	TR	1.09	62.2	E	484		TR	1.09	62.2	E	484		TR	0.93	18.8	B	398	TR	0.94	19.0	B	400		TR	0.94	18.8	B	399	
		Intersection		52.2	D		Intersection		53.4	D			Intersection		53.3	D			Intersection		53.3	D		Intersection		54.4	D			Intersection		56.0	E			Intersection		23.0	C		Intersection		26.5	C			Intersection		31.4	C		
Ninth Ave/W 30th St																																										
87	Eastbound	T	0.89	46.5	D	276	T	0.93	52.7	D	299	+	T	0.90	46.5	D	290		T	0.73	36.6	D	200	T	0.76	37.8	D	210		T	0.76	37.8	D	210		T	0.87	44.0	D	260	T	0.90	46.8	D	273		T	0.90	46.8	D	273	
		R	0.68	34.0	C	169	R	0.69	34.2	C	169		R	0.66	32.4	C	167		R	0.72	36.2	D	177	R	0.72	36.3	D	177		R	0.72	36.3	D	177		R	0.72	39.9	D	119	R	0.72	40.2	D	119		R	0.72	40.2	D	119	
	Southbound	L	0.81	3.2	A	11	L	0.84	3.7	A	13		L	0.87	5.6	A	17		L	0.98	15.1	B	17	L	1.02	23.9	C	19		L	1.02	23.9	C	19		L	1.05	33.2	C	33	L	1.07	41.2	D	79		L	1.07	41.6	D	31	
		T	0.66	1.0	A	11	T	0.66	1.0	A	12		T	0.68	1.9	A	19		T	0.61	2.0	A	17	T	0.61	2.0	A	18		T	0.61	2.0	A	18		T	0.75	2.0	A	24	T	0.76	2.0	A	24		T	0.76	2.2	A	24	
		R	0.13	0.8	A	1	R	0.14	0.9	A	1		R	0.14	1.8	A	1		R	0.17	1.8	A	2	R	0.17	1.9	A	2		R	0.17	1.9	A	2		R	0.18	1.6	A	3	R	0.19	1.7	A	3		R	0.19	1.7	A	3	
		Intersection		16.2	B		Intersection		18.0	B			Intersection		17.0	B			Intersection		16.1	B		Intersection		17.8	B			Intersection		17.8	B			Intersection		21.8	C		Intersection		24.0	C			Intersection		24.2	C		
Ninth Ave/W 31st St																																										
88	Westbound	LT	1.00	69.4	E	410	LT	1.05	84.5	F	437	+	LT	1.05	84.5	F	437	U	LT	0.87	39.1	D	336	LT	0.93	46.9	D	373	+	LT	0.93	46.9	D	374	U	LT	1.48	246.3	F	621	LT	1.53	264.1	F	648	+	LT	1.48	242.2	F	637	
	Southbound	TR	1.10	55.8	E	489	TR	1.10	58.3	E	493		TR	1.10	57.4	E	493		TR	1.17	88.1	F	468	TR	1.18	90.8	F	471		TR	1.18	90.0	F	472		TR	1.00	25.9	C	417	TR	1.00	26.7	C	417		TR	1.03	33.8	C	428	
		Intersection		58.7	E		Intersection		64.0	E			Intersection		63.3	E			Intersection		78.1	E		Intersection		81.4	F			Intersection		80.8	F			Intersection		94.1	F		Intersection		101.5	F			Intersection		99.4	F		
Ninth Ave/W 33rd St																																										
89	Westbound	LT	1.10	102.0	F	256	LT	1.12	113.1	F	260	+	LT	1.09	95.8	F	269		LT	1.34	172.1	F	241	LT	1.37	184.5	F	245	+	LT	1.32	160.6	F	245		LT	1.49	239.0	F	357	LT	1.53	258.3	F	378	+	LT	1.48	234.1	F	390	
	Southbound	TR	0.86	11.3	B	109	TR	0.86	11.3	B	108		TR	0.88	12.0	B	114		TR	0.86	13.9	B	173	TR	0.87	14.0	B	175		TR	0.89	14.4	B	166		TR	0.77	10.8	B	127	TR	0.77	10.8	B	127		TR	0.79	11.3	B	133	
		Intersection		30.5	C		Intersection		33.2	C			Intersection		30.0	C			Intersection		52.3	D		Intersection		55.8	E			Intersection		50.2	D			Intersection		76.6	E		Intersection		83.4	F			Intersection		76.6	E		

Table MA-T1

2033 No Action vs With Action vs With Action with Mitigation Conditions Level of Service Analysis

Signalized Intersections

#	Intersection & Approach	Lane Group	Weekday AM Peak Hour 2033 No Action v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		2033 With Action v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		2033 With Action with Mitigation v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Weekday Midday Peak Hour 2033 No Action v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		2033 With Action v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		2033 With Action with Mitigation v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Weekday PM Peak Hour 2033 No Action v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		2033 With Action v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		2033 With Action with Mitigation v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	
	Ninth Ave/W 34th St																																													
90	Eastbound	T	1.39	217.6	F	536		1.44	237.3	F	562	+	1.40	220.4	F	570		1.76	374.5	F	639		1.82	402.0	F	662	+	1.47	244.6	F	618		1.58	298.2	F	597		1.63	320.2	F	587	+	1.55	281.3	F	622	
		R	1.16	128.6	F	297		1.17	131.3	F	289		1.13	115.1	F	291		1.32	192.1	F	349		1.32	194.4	F	352		1.23	152.8	F	341		1.56	288.1	F	397		1.57	291.6	F	376	+	1.45	241.8	F	393	
	Westbound	T	1.03	31.4	C	277		1.06	45.0	D	274		1.03	33.0	C	238		1.19	125.4	F	214		1.23	147.4	F	216	+	1.17	117.1	F	216		1.77	394.8	F	767		1.97	482.1	F	814	+	1.67	346.5	F	773	
	Southbound	L	0.80	68.6	E	174		0.82	71.8	E	181		0.76	61.6	E	173		1.03	109.6	F	233		1.06	118.4	F	241	+	0.98	95.1	F	232		0.49	46.1	D	78		0.53	47.6	D	82		0.53	47.6	D	82	
		TR	0.74	20.0	C	252		0.74	20.1	C	254		0.76	21.2	C	261		0.68	18.8	B	225		0.69	18.9	B	226		0.72	20.8	C	238		0.72	19.5	B	243		0.72	19.6	B	244		0.76	21.7	C	257	
		Intersection		65.4	E			Intersection	72.0	E			Intersection	65.8	E			Intersection	118.9	F			Intersection	130.2	F			Intersection	93.8	F			Intersection	177.1	F			Intersection	201.9	F			Intersection	162.1	F		
	Ninth Ave/W 36th St																																													
91	Eastbound	TR	0.85	39.0	D	267		0.87	40.8	D	279		0.87	40.8	D	279		0.77	33.7	C	213		0.78	34.1	C	216		0.78	34.1	C	216		0.95	50.5	D	356		0.96	51.3	D	360		0.96	51.3	D	360	
	Southbound	L	0.35	13.4	B	80		0.35	13.4	B	80		0.35	13.4	B	80		0.57	18.3	B	134		0.57	18.4	B	134		0.57	18.4	B	134		0.22	11.5	B	50		0.23	11.6	B	50		0.23	11.6	B	50	
		T	0.89	25.3	C	342		0.90	26.3	C	372		0.90	26.3	C	372		0.89	26.5	C	344		0.90	27.1	C	348		0.90	27.1	C	348		0.57	14.3	B	163		0.57	14.4	B	165		0.57	14.4	B	165	
		R	0.12	5.6	A	28		0.12	5.6	A	28		0.12	5.6	A	28		0.49	8.5	A	153		0.49	8.5	A	153		0.49	8.5	A	153		0.88	19.5	B	498		0.88	19.5	B	498		0.88	19.5	B	498	
		Intersection		26.9	C			Intersection	28.1	C			Intersection	28.1	C			Intersection	22.6	C			Intersection	23.0	C			Intersection	23.0	C			Intersection	25.1	C			Intersection	25.4	C			Intersection	25.4	C		
	Ninth Ave/W 42nd St																																													
92	Eastbound	T	0.89	53.5	D	369		0.89	53.5	D	369		0.89	53.5	D	369		1.74	375.6	F	765		1.74	375.6	F	765		1.74	375.6	F	765		0.86	49.2	D	344		0.86	49.2	D	344		0.86	49.2	D	344	
		R	0.79	57.0	E	154		0.90	74.2	E	183	+	0.90	74.2	E	183	U	0.50	35.1	D	90		0.56	37.7	D	100		0.56	37.7	D	100		0.75	53.7	D	156		0.81	61.1	E	173	+	0.81	61.1	E	173	U
	Westbound	L	1.20	111.1	F	126		1.20	111.1	F	124		1.20	111.1	F	124		1.25	171.4	F	114		1.25	171.5	F	112		1.25	171.5	F	112		1.23	164.2	F	149		1.23	164.1	F	149		1.23	163.1	F	149	
		T	0.34	0.1	A	0		0.34	0.1	A	0		0.34	0.1	A	0		0.34	25.9	C	116		0.34	26.0	C	114		0.34	26.0	C	114		0.33	26.4	C	136		0.33	26.5	C	138		0.33	25.5	C	138	
	Southbound	L	1.16	158.3	F	252		1.16	158.3	F	252		1.16	158.3	F	252		1.01	110.9	F	197		1.01	110.9	F	197		1.01	110.9	F	197		1.20	170.8	F	288		1.20	170.8	F	288		1.20	170.8	F	288	
		T	0.96	38.0	D	360		0.97	38.9	D	364		0.97	38.9	D	364		0.87	28.2	C	288		0.88	28.5	C	290		0.88	28.5	C	290		0.93	32.4	C	374		0.93	33.0	C	377		0.93	33.0	C	377	
		R	0.78	51.3	D	156		0.78	51.3	D	156		0.78	51.3	D	156		0.43	21.5	C	81		0.43	21.5	C	81		0.43	21.5	C	81		1.10	134.8	F	200		1.10	134.8	F	200		1.10	134.8	F	200	
		Intersection		51.0	D			Intersection	52.5	D			Intersection	52.5	D			Intersection	115.9	F			Intersection	115.5	F			Intersection	115.5	F			Intersection	57.6	E			Intersection	58.1	E			Intersection	58.0	E		
	Dyer Ave/W 30th St																																													
93	Eastbound	L	0.10	5.1	A	14		0.10	5.1	A	14		0.10	5.2	A	14		0.29	4.5	A	29		0.29	4.5	A	29		0.29	4.5	A	28		0.43	10.5	B	97		0.43	10.5	B	97		0.43	10.4	B	92	
	Westbound	R	0.08	2.6	A	6		0.08	2.7	A	7		0.08	2.8	A	8		0.12	36.4	D	65		0.13	36.6	D	66		0.13	36.6	D	66		0.18	12.4	B	49		0.19	12.6	B	52		0.19	12.9	B	54	
	Southbound	T	0.50	17.3	B	153		0.52	17.6	B	160		0.52	17.6	B	160		0.31	14.4	B	94		0.32	14.4	B	96		0.32	14.4	B	96		0.18	30.7	C	81		0.19	30.9	C	82		0.19	30.9	C	82	
		Intersection		13.6	B			Intersection	13.9	B			Intersection	13.9	B			Intersection	9.9	A			Intersection	9.9	A			Intersection	10.0	B			Intersection	14.5	B			Intersection	14.6	B			Intersection	14.5	B		
	Dyer Ave/W 31st St																																													
94	Westbound	LT	0.67	10.3	B	37		0.68	10.2	B	35		0.68	10.2	B	35		0.50	32.1	C	134		0.51	31.8	C	128		0.51	31.8	C	128		0.86	37.2	D	106		0.87	37.4	D	105		0.87	36.5	D	105	
		R	0.45	9.0	A	18		0.49	9.1	A	19		0.49	9.1	A	19		0.44	31.5	C	92		0.48	31.7	C	96		0.48	31.7	C	96		0.82	36.7	D	81		0.87	38.4	D	84		0.87	37.4	D	84	
	Northbound	LT	0.13	21.5	C	78		0.14	21.4	C	78		0.14	21.6	C	80		0.33	23.8	C	203		0.33	23.8	C	203		0.33	24.0	C	203		0.51	4.2	A	21		0.52	4.5	A	23		0.52	4.4	A	23	
	Southbound	TR	0.31	9.3	A	98		0.32	9.4	A	102		0.32	9.4	A	102		0.19	8.4	A	57		0.20	8.4	A	58		0.20	8.4	A	58		0.13	8.0	A	39		0.13	8.0	A	40		0.13	8.0	A	40	
		Intersection		11.7	B			Intersection	11.7	B			Intersection	11.7	B			Intersection	21.9	C			Intersection	21.9	C			Intersection	22.0	C			Intersection	17.2	B			Intersection	17.8	B			Intersection	17.5	B		
	Dyer Ave/W 34th St																																													
95	Eastbound	T	0.69	24.5	C	313		0.71	25.2	C	329		0.71	25.8	C	328		0.63	15.8	B	160		0.66	16.4	B	175		0.66	16.4	B	175		0.99	39.9	D	462		1.07	64.2	E	490	+	0.97	34.0	C	458	
	Westbound	T	0.80	35.5	D	298		0.83	34.9	C	299		0.83	35.4	D	298		0.78	7.2	A	48		0.82	7.7	A	47		0.82	8.5	A	49		0.94	14.2	B	74		0.97	16.8	B	69		0.93	14.0	B	99	
		R	0.17	3.5	A	17		0.17	3.4	A	16		0.17	3.8	A	19		0.35	16.4	B	85		0.35	16.5	B	82		0.35	15.4	B	81		0.17	13.6	B	30		0.17	13.8	B	29		0.17	12.3	B	28	
	Southbound	LR	0.99	81.8	F	188		0.98	81.1	F	187		0.92	65.9	E	179		0.65	42.7	D	114		0.65	42.8	D	115		0.65	42.8	D	115		0.67	43.3	D	123		0.68	43.5	D	124		0.68	43.5	D	124	
		R	1.32	226.9	F	227		1.33	233.4	F	231	+	1.22	187.0	F	225		1.00	121.4	F	180		1.00	121.4	F	180		1.00	121.4	F	180		1.29	221.8	F	202		1.29	221.8	F	202		1.29	221.8	F	202	
		Intersection		58.0	E			Intersection	58.1	E			Intersection	50.9	D			Intersection	24.5	C			Intersection	24.5	C			Intersection	24.6	C			Intersection	41.5	D			Intersection	50.3	D			Intersection	38.9	D		
	Tenth Ave/W 30th St																																													
96	Eastbound	L	1.44	245.0	F	123		1.44	245.2	F	121		1.37	213.4	F	120		2.00	498.9	F	185		2.00	497.0	F	179		1.90	454.4	F	172		1.82	415.0	F	163		1.82	417.1	F	158		1.75	380.3	F	153	
		T	2.43	692.9	F	295		2.52	730.0	F	303	+	2.43	691.1	F	300		2.99	946.3	F	307		3.07	979.8	F	310	+	2.96	928.4	F	305		2.97	933.6	F	335		3.05	969.0	F	336	+	2.96	923.0	F	336	
	Northbound	TR	0.65	18.2	B	200		0.65	18.2	B	200		0.66	19.1	B	205		1.02dr	31.1	C	364		1.03dr	31.5	C	367		1.05dr	36.0	D	375		1.34dr	28.4	C	304		1.35dr	28.7	C	306		1.38dr	31.9	C	328	
		Intersection		183.0	F			Intersection	194.1	F			Intersection	182.8	F			Intersection	257.9	F			Intersection	266.6	F			Intersection	254.6	F			Intersection	244.8	F			Intersection	255.0	F			Intersection	243.9	F		
	Tenth Ave/W 33rd St																																													
97	Westbound	TR	0.84	47.0	D	221		0.85	47.1	D	219		0.85	47.9	D	224		1.65	319.9	F	330		1.66	324.5	F	328	+	1.66	325.2	F	336	U	1.03	41.5	D	204		1.05	47.1	D	200	+	1.01	34.2	C	198	
	Northbound	LT	0.77	22.3	C	265		0.77	22.3	C	266		0.77	22.3	C	266		1.01	45.4	D	478		1.01	46.1	D	480		1.01	46.1	D	480		0.90	27.4	C	363		0.90	27.5	C	365		0.93	29.9	C	378	
		Intersection		28.4	C			Intersection	28.6	C			Intersection	28.8	C			Intersection	119.5	F			Intersection	121.5	F			Intersection	121.7	F			Intersection	31.0	C			Intersection	32.6	C			Intersection	31.1	C		
	Tenth Ave/W 34th St																																													
98	Eastbound	L	1.94	503.8	F	161		2.14	598.3	F	169	+	1.94	503.3	F	161		1.85	459.7	F	207		2.12	582.7	F	181	+	2.12	582.7	F	181	U	2.34	674.9	F	211		2.67	824.8	F	222	+	2.67	824.8	F	222	U
		T	0.73	35.4	D	243		0.76	37.3	D	256		0.74	35.0	C	251		0.60	29.8	C	225		0.63	30.9	C	239		0.63	30.9	C	239		0.80	39.3	D	327		0.84	42.4	D	350		0.84	42.4	D	350	
	Westbound	T	1.24	154.6	F	453		1.29	172.8	F	461	+	1.06	77.4	E	417		1.31	184.5	F	491		1.38	214.9	F	503	+	1.04	74.9	E	431		1.36	200.9	F	391		1.44	229.8	F	402	+	1.44	232.4	F	425	U
		R	0.78	39.3	D	198		0.79	38.5	D	195		0.76	37.1	D	198		0.81	42.4	D	202		0.82	41.6	D	195		0.82	41.7	D	195		1.21	133.0	F	333		1.21	130.3	F	318		1.21	134.6	F	338	
	Northbound	LTR	0.85	8.9	A	47		0.85	8.9	A	47		0.87	10.1	B	50																	1.08	48.0	D	463		1.09	49.3	D	464		1.09	48.9	D	471	
																		1.18	86.9	F	357		1.18	88.1	F	356		1.18	88.1	F	356														
																		1.80	369.3	F	223		1.82	377.7	F	227	+	1.82	377.7	F	227	U														
		Intersection		55.1	E			Intersection	61.9	E			Intersection	43.8	D			Intersection	129.4	F			Intersection	139.8	F			Intersection	120.8	F			Intersection	97.5	F			Intersection	107.9	F			Intersection	108.4	F		
	Eleventh Ave/W 30th St																																													
99	Eastbound	T	1.99	485.6	F	697		2.04	507.7	F	715	+	1.95	463.8	F	705		2.60	757.0	F	743		2.69	795.5	F	765	+	2.44	683.7	F	728		2.60	755.5	F	740		2.69	794.0	F	763	+	2.41	669.3	F	721	
		R	0.69	36.5	D	143		0.69	36.5	D	143		0.66	34.1	C	140		0.71	40.4	D	149		0.71	40.7	D	150		0.66	35.3	D	132		0.71	35.9	D	155		0.71	36.1	D	157		0.67	31.5	C	149	
	Southbound	LT	0.94	34.9	C	352		0.94	34.9	C	352		0.96	39.4	D	361		0.87	31.5	C	256		0.87	31.4	C	255		0.93	37.7	D	272		0.83	29.1	C	235		0.83	29.1	C	235		0.88	33.5	C	246	
		Intersection		145.3	F			Intersection	152.9	F			Intersection	144.8	F			Intersection	270.1	F			Intersection	286.1	F			Intersection	252.3	F			Intersection	270.5	F			Intersection	286.3	F			Intersection	246.6	F		
	Eleventh Ave/W 34th St																																													
100	Eastbound	L	1.01	95.5	F	154		1.06	110.8	F	165	+	1.06	110.8	F	165	U	1.87	436.9	F	326		1.87	437.2	F	325		1.73	374.0	F	318		1.82	412.8	F	396		1.82	412.8	F	396		1.69	350.5	F	386	
		T	0.77	42.5	D	291		0.82	47.0	D	316		0.82	47.0	D	316		1.57	308.3	F	410		1.64	340.3	F	431	+	1.64	340.3	F	431	U	1.24	158.7	F	496		1.28	176.0	F	518	+	1.19	137.5	F	498	
		R	1.69	374.6	F	271		1.69	374.6	F	271		1.69	374.6	F	271		0.85	69.1	E	154		0.85	69.1	E	154		0.85	69.1	E	154		1.67	362.5	F	294		1.67	362.5	F	294		1.51	289.6	F	285	
	Westbound	L	1.06	99.3	F	253		1.09	109.0	F	257	+	1.09	109.0	F	257	U	0.94	68.4	E	157		0.97	77.8	E	167	+	0.92	62.6	E	159		1.24	164.6	F	243		1.24	164.7	F	243		1.14	127.5	F	234	
		TR	1.18	140.0	F	433		1.24	163.9	F	459	+	1.24	163.9	F	459	U	1.22	150.2	F	458		1.29	178.7	F	490	+	1.29	178.7	F	490	U	1.54	286.8	F	587		1.61	318.6	F	621	+	1.48	261.6	F	602	
	Southbound	LTR	1.10	81.6	F	499		1.10	81.4	F	499		1.10	81.4	F	499		0.95	37.4	D	352		0.95	37.4	D	352		0.97	42.7	D	360		0.57	20.1	C	147		0.57	20.1	C	147		0.61	22.9	C	158	
		Intersection		107.5	F			Intersection	112.8	F			Intersection	112.8	F			Intersection	131.0	F			Intersection	141.8	F			Intersection	137.3	F			Intersection	192.6	F			Intersection	203.5	F			Intersection	167.8	F		
	Route 9A/W 29th St																																													
101	Westbound	L	0.29	56.0	E	104		0.29	56.0	E	104		0.28	54.8	D	103		0.23	43.2	D	71		0.23	43.2	D	71		0.22	42.1	D	70		0.56	66.7	E	152		0.56	66.7	E	152		0.52	62.7	E	149	
		R	0.96	110.3	F	336		1.01	123.0	F	360	+	0.98	111.9	F	350		1.41	257.3	F	460		1.47	281.0	F	481	+	1.40	248.9	F	471		1.74	415.1	F	644		1.87	470.2	F	699	+	1.74	409.0	F	682	
	Northbound	T	0.75	16.0	B	506		0.75	16.0	B	506		0.75	16.8	B	518		0.72	16.6	B	397		0.72	16.6	B	408		0.73	17.4	B	408		0.88	21.1	C	779		0.88	21.1	C	779		0.90	23.3	C	818	
	Southbound	T	0.85	0.4	A	0		0.85	0.4	A	0		0.86	0.4	A	0		0.81	7.3	A	107		0.81	7.3	A	107		0.82	8.1	A	116		0.90	1.7	A	8		0.90	1.7	A	8		0.92	2.4	A	26	
		Intersection		12.9	B			Intersection	13.6	B			Intersection	13.4	B			Intersection	27.4	C			Intersection	29.5	C			Intersection	28.1	C			Intersection	33.4	C			Intersection	35.8	D			Intersection	35.8	D		
	Route 9A/W 30th St																																													
102	Eastbound	LTR	0.01	61.7	E	6		0.01	61.7	E	6		0.01	61.7	E	6		0.03	47.4	D	14		0.03	47.4	D	14		0.03	47.4	D	14		0.12	63.8	E	43		0.12	63.8	E	43		0.12	63.8	E	43	
	Northbound	TR	0.88	11.7	B	159		0.89	12.0	B	162		0.89	11.5	B	157		0.93	17.6	B	609		0.93	17.9	B	609		0.93	18.2	B	625		1.14	78.2	E	1243		1.15	81.5	F	1240		1.15	80.4	F	1249	
	Southbound	L	2.18	610.4	F	850		2.26	645.7	F	883	+	2.26	645.7	F	883	U	2.19	606.6	F	828		2.25	636.5	F	848	+	2.25	636.5	F	848	U	2.28	632.8	F	744		2.34	660.4	F	743	+	2.34	660.4	F	743	U
		TR	1.23	121.3	F	1267		1.23	122.0	F	1263		1.23	122.0	F	1263		1.15	93.0	F	914		1.15	93.8	F	909		1.15	93.8	F	909		1.31	166.6	F	1129		1.32	167.4	F	1074		1.32	167.4	F	1074	
		Intersection		104.8	F			Intersection	109.1	F			Intersection	108.9	F			Intersection	102.0	F			Intersection	106.5	F			Intersection	106.6	F			Intersection	154.7	F			Intersection	159.6	F			Intersection	159.0	F		

Table MA-T1

2033 No Action vs With Action vs With Action with Mitigation Conditions Level of Service Analysis

Signalized Intersections

#	Intersection & Approach	Weekday AM Peak Hour																Weekday Midday Peak Hour																Weekday PM Peak Hour															
		2033 No Action					2033 With Action						2033 With Action with Mitigation						2033 No Action					2033 With Action						2033 With Action with Mitigation						2033 No Action					2033 With Action						2033 With Action with Mitigation					
		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	
Route 9A/W 34th St																																																	
104	Westbound	LR	1.25	194.8	F	301	LR	1.30	217.2	F	316	+	LR	1.30	217.2	F	316	U	LR	1.01	91.2	F	240	LR	1.07	109.7	F	256	+	LR	1.07	109.7	F	256	U	LR	1.30	216.2	F	319	LR	1.38	250.5	F	339	+	LR	1.38	250.5	F	339	U
		R	0.43	40.0	D	218	R	0.44	40.5	D	227		R	0.44	40.5	D	227		R	0.46	32.7	C	184	R	0.49	33.5	C	198		R	0.49	33.5	C	198		R	0.51	51.2	D	251	R	0.54	52.2	D	265		R	0.54	52.2	D	265	
	Northbound	T	0.98	49.9	D	750	T	0.99	51.3	D	852		T	0.99	51.3	D	852		T	0.92	52.6	D	625	T	0.92	53.0	D	629		T	0.92	53.1	D	629		T	1.00	20.0	C	347	T	1.01	22.5	C	355		T	1.01	22.5	C	355	
		R	0.82	45.6	D	336	R	0.82	45.6	D	335		R	0.82	45.6	D	335		R	0.93	69.1	E	424	R	0.93	69.0	E	424		R	0.93	69.0	E	424		R	0.86	12.2	B	147	R	0.86	12.1	B	148		R	0.86	12.1	B	148	
	Southbound	L	0.56	62.9	E	173	L	0.59	63.7	E	181		L	0.59	63.7	E	181		L	0.80	69.6	E	172	L	0.85	74.8	E	189	+	L	0.85	74.8	E	189	U	L	1.36	248.8	F	368	L	1.41	270.5	F	385	+	L	1.41	270.5	F	385	U
		T	0.82	15.9	B	709	T	0.82	16.0	B	716		T	0.82	16.0	B	716		T	0.77	16.1	B	538	T	0.78	16.2	B	543		T	0.78	16.2	B	543		T	1.14	86.3	F	1486	T	1.17	99.5	F	1521	+	T	1.17	99.5	F	1521	U
		Intersection		43.4	D		Intersection		45.6	D			Intersection		45.6	D			Intersection		41.5	D		Intersection		43.4	D			Intersection		43.4	D			Intersection		66.6	E		Intersection		76.0	E			Intersection		76.0	E		
Route 9A/W 40th St																																																	
105	Westbound	R	0.04	41.1	D	28	R	0.04	41.1	D	28		R	0.04	41.1	D	28		R	0.02	33.3	C	15	R	0.02	33.3	C	15		R	0.02	33.3	C	15		R	0.06	48.2	D	30	R	0.06	48.2	D	30		R	0.06	48.2	D	30	
	Northbound	L	0.19	43.6	D	79	L	0.19	43.6	D	79		L	0.19	43.6	D	79		L	0.11	34.7	C	47	L	0.11	34.7	C	47		L	0.11	34.7	C	47		L	0.19	50.7	D	81	L	0.19	50.7	D	81		L	0.19	50.7	D	81	
		TR	0.80	20.9	C	586	TR	0.81	21.3	C	599		TR	0.81	21.3	C	599		TR	0.74	16.2	B	417	TR	0.75	16.4	B	428		TR	0.75	16.4	B	428		TR	1.03	43.2	D	1280	TR	1.04	47.6	D	1309		TR	1.04	47.6	D	1309	
	Southbound	T	1.03	50.9	D	1327	T	1.04	53.6	D	1346		T	1.04	53.6	D	1346		T	0.92	24.7	C	749	T	0.93	25.6	C	768		T	0.93	25.6	C	768		T	0.94	24.8	C	1014	T	0.95	25.8	C	1043		T	0.95	25.8	C	1043	
		R	0.39	59.7	E	118	R	0.39	59.7	E	118		R	0.39	59.7	E	118		R	0.44	51.1	D	118	R	0.44	51.1	D	118		R	0.44	51.1	D	118		R	0.45	56.8	E	163	R	0.45	56.8	E	163		R	0.45	56.8	E	163	
		Intersection		37.6	D		Intersection		39.1	D			Intersection		39.1	D			Intersection		21.3	C		Intersection		21.8	C			Intersection		21.8	C			Intersection		35.5	D		Intersection		38.3	D			Intersection		38.3	D		
Route 9A/W 42nd St																																																	
106	Eastbound	LTR	0.04	46.5	D	20	LTR	0.04	46.5	D	20		LTR	0.05	47.3	D	20		LTR	0.22	35.1	D	69	LTR	0.22	35.1	D	69		LTR	0.22	36.0	D	70		LTR	0.05	46.6	D	20	LTR	0.05	46.6	D	20		LTR	0.05	46.6	D	20	
	Westbound	L	0.40	53.0	D	104	L	0.40	53.0	D	104		L	0.41	54.3	D	105		L	0.42	38.3	D	90	L	0.42	38.3	D	90		L	0.43	39.4	D	91		L	0.46	55.2	E	94	L	0.46	55.2	E	94		L	0.46	55.2	E	94	
		R	0.51	32.9	C	221	R	0.51	32.9	C	221		R	0.52	33.7	C	223		R	0.64	25.2	C	259	R	0.64	25.2	C	259		R	0.65	26.1	C	264		R	0.29	36.4	D	111	R	0.29	36.5	D	114		R	0.29	36.5	D	114	
	Northbound	T	1.12	102.2	F	1023	T	1.14	107.1	F	1041	+	T	1.12	99.6	F	1030		T	1.22	140.7	F	793	T	1.24	148.4	F	811	+	T	1.21	136.0	F	800		T	1.15	107.9	F	1306	T	1.17	114.9	F	1335	+	T	1.17	114.9	F	1335	U
		R	0.44	30.9	C	191	R	0.44	30.9	C	191		R	0.44	30.1	C	189		R	0.54	36.0	D	161	R	0.54	36.0	D	161		R	0.52	34.7	C	159		R	0.35	21.5	C	137	R	0.35	21.5	C	137		R	0.35	21.5	C	137	
	Southbound	L	0.48	54.1	D	202	L	0.51	54.7	D	213		L	0.51	54.7	D	213		L	0.59	45.7	D	190	L	0.61	46.2	D	195		L	0.61	46.2	D	195		L	0.91	86.8	F	279	L	0.93	90.7	F	292	+	L	0.93	90.7	F	292	U
		T	1.02	51.3	D	1147	T	1.03	54.1	D	1167		T	1.01	50.2	D	1155		T	1.12	92.4	F	901	T	1.13	98.2	F	919	+	T	1.12	89.7	F	908		T	1.12	89.8	F	1417	T	1.14	94.2	F	1439	+	T	1.14	94.2	F	1439	U
		Intersection		71.0	E		Intersection		74.2	E			Intersection		69.6	E			Intersection		97.0	F		Intersection		102.3	F			Intersection		94.5	F			Intersection		94.3	F		Intersection		99.6	F			Intersection		99.6	F		
Route 9A/W 54th St																																																	
107	Northbound	TR	0.81	18.2	B	614	TR	0.82	18.6	B	629		TR	0.82	18.6	B	629		TR	0.91	24.6	C	635	TR	0.92	25.4	C	653		TR	0.92	25.4	C	653		TR	1.01	39.3	D	1216	TR	1.02	43.2	D	1248		TR	1.02	43.2	D	1248	
	Southbound	L	0.27	48.8	D	127	L	0.27	48.8	D	127		L	0.27	48.8	D	127		L	0.27	34.0	C	118	L	0.27	34.0	C	118		L	0.27	34.0	C	118		L	0.30	49.4	D	141	L	0.30	49.4	D	141		L	0.30	49.4	D	141	
		T	0.88	21.0	C	806	T	0.89	21.7	C	832		T	0.89	21.7	C	832		T	0.70	16.6	B	413	T	0.71	16.9	B	425		T	0.71	16.9	B	425		T	0.68	14.3	B	474	T	0.69	14.5	B	487		T	0.69	14.5	B	487	
	Southeastbound	R	0.73	18.4	B	551	R	0.73	18.4	B	551		R	0.73	18.4	B	551		R	0.45	13.6	B	219	R	0.45	13.6	B	219		R	0.45	13.6	B	219		R	0.44	11.4	B	244	R	0.44	11.4	B	244		R	0.44	11.4	B	244	
		Intersection		20.0	C		Intersection		20.5	C			Intersection		20.5	C			Intersection		20.7	C		Intersection		21.2	C			Intersection		21.2	C			Intersection		27.9	C		Intersection		30.1	C			Intersection		30.1	C		
Route 9A/W 56th St																																																	
108	Northbound	T	1.11	98.7	F	1029	T	1.13	104.1	F	1048	+	T	1.11	96.7	F	1036		T	0.73	15.2	B	435	T	0.74	15.5	B	447		T	0.74	15.5	B	447		T	1.22	127.9	F	1333	T	1.24	135.9	F	1367	+	T	1.24	135.9	F	1367	U
	Southbound	L	0.93	49.7	D	828	L	0.93	49.7	D	828		L	0.94	52.3	D	840		L	1.11	114.0	F	465	L	1.11	114.0	F	465		L	1.11	114.0	F	465		L	0.90	70.6	E	452	L	0.90	70.6	E	452		L	0.90	70.6	E	452	
		T	0.59	0.4	A	0	T	0.60	0.4	A	0		T	0.60	0.4	A	0		T	0.41	0.2	A	0	T	0.42	0.2	A	0		T	0.42	0.2	A	0		T	0.42	0.2	A	0	T	0.43	0.2	A	0		T	0.43	0.2	A	0	
		Intersection		45.3	D		Intersection		47.3	D			Intersection		45.0	D			Intersection		22.7	C		Intersection		22.6	C			Intersection		22.6	C			Intersection		79.2	E		Intersection		83.8	F			Intersection		83.8	F		
Route 9A/W 56th St Service Road																																																	
108	Eastbound	T	1.01	25.3	C	988	T	1.01	25.3	C	988		T	1.02	29.0	C	974		T	0.91	13.5	B	35	T	0.91	13.5	B	35		T	0.91	13.5	B	35		T	1.19	108.5	F	690	T	1.19	108.5	F	690		T	1.19	108.5	F	690	
	Northbound	TR	0.31	27.3	C	153	TR	0.31	27.3	C	153		TR	0.31	26.6	C	151		TR	0.22	8.8	A	91	TR	0.22	8.8	A	91		TR	0.22	8.8	A	91		TR	0.26	9.9	A	119	TR	0.26	9.9	A	119		TR	0.26	9.9	A	119	
		Intersection		25.9	C		Intersection		25.9	C			Intersection		28.2	C			Intersection		11.0	B		Intersection		11.0	B			Intersection		11.0	B			Intersection		57.2	E		Intersection		57.2	E			Intersection		57.2	E		

Notes: L = Left Turn, T= Through, R = Right Turn, DefL = Defacto Left Turn; LOS = Level of Service. The LOS results were reported using the HCM 2000 methodology. + = denotes significant adverse impact. U = denotes umitigable significant adverse impact. **This table has been revised for the FEIS.**

Table MA-T2
2033 No Action vs With Action vs With Action with Mitigation Conditions Level of Service Analysis
Unsignalized Intersections

#	Intersection & Approach	Weekday AM Peak Hour											Weekday MD Peak Hour												Weekday PM Peak Hour											
		2033 No Action					2033 With Action						2033 With Action						2033 No Action					2033 With Action						2033 With Action					
		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	
103	**Route 9A & 33rd Street**																																											
	Westbound	R	0.85	43.7	E	209.0	R	0.88	48.1	E	227.0	+	R	0.88	48.1	E	227.0	U	R	1.02	78.7	F	342.0	R	1.04	85.3	F	361.0	+	R	1.04	85.3	F	361.0	U	R	2.28	617.2	F	1244.0	R	2.33	638.3	F	1282.0	+	R	2.33	638.3	F	1282.0	U

Notes: L = Left Turn, T= Through, R = Right Turn, DefL = Defacto Left Turn; LOS = Level of Service. The LOS results were reported using the HCM 2000 methodology. + = denotes significant adverse impact. U = denotes umitigable significant adverse impact. **This table has been revised for the FEIS.**

Table MA-T3
2044 No Action vs With Action vs With Action with Mitigation Conditions Level of Service Analysis
Signalized Intersections

Weekday AM Peak Hour

#	Intersection & Approach	2044 No Action					2044 With Action						2044 With Action with Mitigation					
		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	
1	FDR Dr Srv Rd/E 34th St																	
	Eastbound	L	1.65	334.2	F	173	L	2.05	509.4	F	207	+	L	2.05	509.4	F	207	U
		LTR	1.40	220.6	F	189	LTR	1.50	265.2	F	170	+	LTR	1.50	265.2	F	169	U
		R	1.08	68.4	E	178	R	1.15	97.3	F	158	+	R	1.15	97.3	F	157	U
	Westbound	LTR	0.02	29.9	C	12	LTR	0.02	29.9	C	12		LTR	0.02	29.9	C	12	
	Northbound	L	0.60	25.9	C	142	L	0.63	27.1	C	153		L	0.63	27.1	C	153	
		LTR	0.90	35.0	D	285	LTR	0.94	42.1	D	314		LTR	0.94	42.1	D	314	
	Southbound	LTR	1.03	42.2	D	134	LTR	1.05	49.6	D	120	+	LTR	1.05	49.6	D	120	U
		Intersection		101.2	F		Intersection		144.2	F			Intersection		144.2	F		
2	FDR Dr Srv Rd/E 35th St																	
	Westbound	LTR	0.14	27.2	C	39	LTR	0.14	27.2	C	39		LTR	0.14	27.2	C	39	
	Northbound	L	0.78	39.8	D	127	L	0.84	42.3	D	125		L	0.84	42.3	D	125	
		T	0.88	32.6	C	218	T	1.09	75.6	E	243	+	T	1.09	75.6	E	243	U
	Southbound	TR	1.04	67.6	E	467	TR	1.10	90.2	F	507	+	TR	1.10	90.2	F	507	U
		Intersection		54.4	D		Intersection		78.0	E			Intersection		78.0	E		
3	FDR Dr Srv Rd/E 37th St																	
	Southbound	TR	0.90	23.8	C	413	TR	1.05	53.3	D	617	+	TR	1.01	40.6	D	598	
		Intersection		23.8	C		Intersection		53.3	D			Intersection		40.6	D		
4	First Ave/E 30th St																	
	Eastbound	L	1.07	92.3	F	289	L	1.25	159.9	F	353	+	L	1.25	159.9	F	353	U
		T	1.70	355.5	F	765	T	1.94	461.7	F	887	+	T	1.94	461.7	F	887	U
	Northbound	T	0.90	29.9	C	366	T	0.91	30.3	C	369		T	0.91	30.3	C	369	
		R	1.03	95.1	F	268	R	1.03	95.1	F	268		R	1.03	95.1	F	268	
		Intersection		126.7	F		Intersection		175.2	F			Intersection		175.2	F		
5	First Ave/E 34th St																	
	Eastbound	L	0.59	10.2	B	26	L	0.71	11.7	B	28		L	0.71	10.6	B	28	
		T	1.29	147.8	F	487	T	1.36	180.5	F	481	+	T	1.36	179.4	F	534	U
	Westbound	T	0.78	45.9	D	210	T	0.84	49.2	D	229		T	0.84	49.2	D	229	
		R	0.94	75.1	E	155	R	0.94	73.2	E	151		R	0.94	73.2	E	151	
	Northbound	L	0.65	36.6	D	144	L	0.69	39.9	D	157		L	0.69	39.9	D	157	
		T	0.99	49.1	D	339	T	0.99	49.1	D	339		T	0.99	49.1	D	339	
		R	1.42	233.2	F	569	R	1.71	357.3	F	698	+	R	1.71	357.3	F	698	U
		Intersection		101.3	F		Intersection		134.8	F			Intersection		134.4	F		
6	QMT Approach St/E 34th St																	
	Eastbound	L	0.56	18.8	B	76	L	0.68	22.7	C	102		L	0.68	20.8	C	65	
		TR	1.16	88.2	F	769	TR	1.24	120.9	F	726	+	TR	1.17	86.0	F	788	
	Westbound	T	1.44	261.4	F	373	T	1.61	333.6	F	394	+	T	1.40	243.3	F	377	
		R	0.84	71.0	E	160	R	0.88	74.1	E	153		R	0.74	57.3	E	135	
	Northbound	LTR	0.00	0.0	A	0	LTR	0.00	0.0	A	0		LTR	0.00	0.0	A	0	
		Intersection		109.0	F		Intersection		140.6	F			Intersection		102.5	F		
7	Second Ave/E 23rd St																	
	Eastbound	T	1.13	135.3	F	297	T	1.32	207.7	F	267	+	T	1.22	164.7	F	256	U
		R	1.05	112.7	F	196	R	1.38	233.9	F	241	+	R	1.26	184.1	F	230	U
	Westbound	L	1.00	109.1	F	194	L	1.03	118.4	F	196	+	L	0.90	80.7	F	185	
		T	1.17	135.0	F	414	T	1.37	217.2	F	495	+	T	1.24	157.4	F	472	U
	Southbound	L	1.20	159.9	F	316	L	1.20	159.9	F	316		L	1.20	159.9	F	316	
		T	0.73	18.4	B	280	T	0.74	18.6	B	284		T	0.77	20.8	C	300	
		R	0.47	17.8	B	107	R	0.47	17.8	B	107		R	0.50	20.1	C	115	
		Intersection		70.2	E		Intersection		102.4	F			Intersection		84.5	F		
8	Second Ave/E 30th St																	
	Eastbound	T	1.99	486.8	F	310	T	2.49	711.6	F	335	+	T	2.49	711.6	F	335	U
		R	0.35	34.1	C	28	R	0.35	34.6	C	24		R	0.35	34.6	C	24	
	Southbound	L	0.77	26.0	C	336	L	0.78	26.5	C	341		L	0.78	26.5	C	341	
		T	0.69	13.9	B	210	T	0.70	14.1	B	214		T	0.70	14.1	B	214	
		Intersection		137.5	F		Intersection		225.0	F			Intersection		225.0	F		
9	Second Ave/E 34th St																	
	Eastbound	T	0.90	43.4	D	307	T	1.05	73.6	E	391	+	T	0.93	41.0	D	357	
		R	0.76	49.8	D	134	R	0.76	47.5	D	99		R	0.67	36.2	D	91	
	Westbound	T	0.66	28.3	C	39	T	0.72	31.5	C	38		T	0.65	30.0	C	61	
	Southbound	L	0.78	40.2	D	177	L	0.78	40.2	D	177		L	0.78	40.2	D	177	
		T	0.68	18.6	B	240	T	0.69	18.8	B	247		T	0.75	21.9	C	267	
		R	0.61	27.2	C	132	R	0.61	27.2	C	132		R	0.69	35.8	D	160	
		Intersection		29.3	C		Intersection		36.8	D			Intersection		30.6	C		
10	Second Ave/E 36th St																	
	Eastbound	TR	1.67	347.5	F	297	TR	1.82	410.5	F	302	+	TR	1.49	262.6	F	303	
	Westbound	L	1.68	352.2	F	377	L	1.68	352.2	F	377		L	1.68	352.2	F	377	
	Southbound	L	2.75	843.6	F	351	L	2.75	843.6	F	351		L	2.75	843.6	F	351	
		T	0.46	14.1	B	138	T	0.47	14.3	B	142		T	0.50	16.4	B	153	
		Intersection		308.1	F		Intersection		325.8	F			Intersection		282.2	F		
11	QMT Exit St/E 34th St																	
	Eastbound	T	0.68	4.1	A	39	T	0.79	7.2	A	31		T	0.79	5.5	A	39	
	Westbound	T	0.83	44.1	D	349	T	0.89	48.9	D	388		T	0.89	44.9	D	390	
	Southbound	LR	0.75	34.9	C	74	LR	0.77	34.9	C	73		LR	0.77	34.9	C	73	
		R	0.23	11.4	B	41	R	0.25	11.4	B	41		R	0.25	11.4	B	41	
		Intersection		21.5	C		Intersection		23.5	C			Intersection		21.6	C		
12	QMT Exit St/E 35th St																	
	Westbound	LT	0.71	26.5	C	252	LT	0.81	32.1	C	302		LT	0.81	32.1	C	302	
	Southbound	L	0.96	60.5	E	480	L	0.97	63.2	E	488		L	0.97	63.2	E	488	
		LT	0.98	64.9	E	496	LT	0.99	68.4	E	507		LT	0.99	68.4	E	507	
		R	1.29	174.2	F	627	R	1.74	369.7	F	890	+	R	1.74	369.7	F	890	U
		Intersection		88.6	F		Intersection		166.6	F			Intersection		166.6	F		
13	QMT Exit St/E 37th St																	
	Westbound	TR	0.86	43.4	D	311	TR	1.16	121.1	F	478	+	TR	1.16	121.1	F	478	U
	Northbound	L	0.33	0.2	A	0	L	0.36	0.3	A	0		L	0.36	0.3	A	0	
		R	0.77	24.0	C	301	R	0.78	24.3	C	306		R	0.78	24.3	C	306	
		Intersection		14.9	B		Intersection		30.6	C			Intersection		30.6	C		

Weekday Midday Peak Hour

#	Intersection & Approach	2044 No Action					2044 With Action						2044 With Action with Mitigation					
		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	
1	FDR Dr Srv Rd/E 34th St																	
	Eastbound	L	1.59	296.8	F	177	L	1.74	361.9	F	192	+	L	1.74	361.9	F	192	U
		LTR	1.49	249.9	F	208	LTR	1.53	266.4	F	202	+	LTR	1.53	266.4	F	202	U
		R	0.80	11.3	B	74	R	0.81	11.2	B	69		R	0.81	11.2	B	69	
	Westbound	LTR	0.05	31.9	C	18	LTR	0.05	31.9	C	18		LTR	0.05	31.9	C	18	
	Northbound	L	0.72	31.0	C	215	L	0.72	31.2	C	218		L	0.72	31.2	C	218	
		LTR	0.97	49.8	D	358	LTR	0.99	54.7	D	372		LTR	0.99	54.7	D	372	
	Southbound	LTR	1.12	80.0	F	143	LTR	1.12	80.9	F	141		LTR	1.12	80.6	F	160	
		Intersection		103.7	F		Intersection		115.8	F			Intersection		115.7	F		
2	FDR Dr Srv Rd/E 35th St																	
	Westbound	LTR	0.12	26.6	C	37	LTR	0.12	26.6	C	37		LTR	0.12	26.6	C	37	
	Northbound	L	0.47	39.8	D	70	L	0.50	40.4	D	71		L	0.52	41.3	D	71	
		T	0.94	37.0	D	217	T	1.01	49.8	D	225	+	T	0.98	42.5	D	225	
	Southbound	TR	1.11	91.8	F	537	TR	1.12	95.4	F	543	+	TR	1.08	81.7	F	532	
		Intersection		72.5	E		Intersection		77.3	E			Intersection		66.9	E		
3	FDR Dr Srv Rd/E 37th St																	
	Southbound	TR	0.90	23.4	C	420	TR	0.92	25.7	C	445		TR	0.92	25.7	C	445	
		Intersection		23.4	C		Intersection		25.7	C			Intersection		25.7	C		
4	First Ave/E 30th St																	
	Eastbound	L	1.09	96.2	F	269	L	1.11	102.4	F	275	+	L	1.00	68.1	E	257	
		T	1.24	158.3	F	527	T	1.28	178.3	F	553	+	T	1.19	138.8	F	535	
	Northbound	T	0.72	20.7	C	258	T	0.75	21.4	C	272		T	0.79	24.0	C	287	
		R	0.67	30.6	C	182	R	0.67	30.6	C	182		R	0.71	35.5	D	191	
		Intersection		65.2	E		Intersection		70.8	E			Intersection		56.9	E		
5	First Ave/E 34th St																	
	Eastbound	L	0.99	45.5	D	28	L	0.99	45.4	D	25		L	0.99	47.1	D	29	
		T	1.34	162.9	F	422	T	1.40	191.0	F	429	+	T	1.40	194.3	F	465	U
	Westbound	T	1.35	182.5	F	474	T	1.37	191.9	F	480	+	T	1.37	191.9	F	480	U
		R	0.80	29.9	C	76	R	0.80	29.9	C	74		R	0.80	29.9	C	74	
	Northbound	L	0.73	40.4	D	160	L	0.96	76.8	E	232	+	L	0.96	76.8	E	232	U
		T	0.90	35.1	D	292	T	0.90	35.2	D	292		T	0.90	35.2	D	292	
		R	1.17	126.5	F	435	R	1.20	136.2	F	448	+	R	1.20	136.2	F	448	U
		Intersection		103.1	F		Intersection		115.0	F			Intersection		115.8	F		
6	QMT Approach St/E 34th St																	
	Eastbound	L	0.66	24.8	C	87	L	0.68	25.5	C	87		L	0.70	24.3	C	62	
		TR	1.23	117.3	F	520	TR	1.27	139.0	F	518	+	TR	1.22	111.8	F	552	
	Westbound	T	1.36	225.5	F	266	T	1.39	234.6	F	245	+	T	1.18	140.0	F	209	
		R	1.28	189.7	F	176	R	1.51	290.6	F	207	+	R	1.27	181.4	F	173	
	Northbound	LTR	0.00	0.0	A	0	LTR	0.00	0.0	A	0		LTR	0.00	0.0	A	0	
		Intersection		137.7	F		Intersection		167.7	F			Intersection		116.7	F		
7	Second Ave/E 23rd St																	
	Eastbound	T	0.82	31.6	C	193	T	1.21	131.3	F	291	+	T	0.94	39.2	D	178	
		R	0.92	49.6	D	151	R	1.03	68.1	E	146	+	R	0.94	46.4	D	103	
	Westbound	L	1.26	202.6	F	190	L	1.57	334.2	F	203	+	L	1.29	215.8	F	192	U
		T	1.49	270.2	F	537	T	1.60	315.8	F	552	+	T	1.41	232.3	F	528	
	Southbound	L	1.15	136.2	F	374	L	1.15	136.2	F	374		L	1.15	136.2	F	374	
		TR	0.92	27.8	C	399	TR	0.92	28.2	C	426		TR	0.96	35.0	C	443	
		Intersection		85.5	F		Intersection		110.4	F			Intersection		83.7	F		
8	Second Ave/E 30th St																	
	Eastbound	T	1.82	377.2	F	50	T	1.89	407.9	F	50	+	T	1.69	320.8	F	21	
		R	0.53	6.3	A	4	R	0.53	6.2	A	4		R	0.46	4.9	A	4	
	Southbound	L	0.64	20.0	B	267	L	0.64	20.2	C	272		L	0.69	24.0	C	296	
		T	0.85	19.2	B	301	T	0.86	19.4	B	304		T	0.92	25.3	C	353	
		Intersection		97.3	F		Intersection		106.3	F			Intersection		90.8	F		
9	Second Ave/E 34th St																	
	Eastbound	T	1.30	184.2	F	448	T	1.37	213.6	F	476	+	T	1.27	166.3	F	458	
		R	0.79	54.0	D	137	R	0.79	52.7	D	131		R	0.73	45.8	D	129	
	Westbound	T	0.85	36.3	D	65	T	0.86	37.2	D	65		T	0.81	34.7	C	98	
	Southbound	L	0.55	32.2	C	129	L	0.55	32.2	C	129		L	0.55	32.2	C	129	
		T	0.68	18.5	B	245	T	0.68	18.6	B	246		T	0.71	20.4	C	259	
		R	0.27	14.6	B	62	R	0.27	14.6	B	62		R	0.29	16.1	B	66	
		Intersection		63.0	E		Intersection		71.7	E			Intersection		60.3	E		
10	Second Ave/E 36th St																	
	Eastbound	TR	1.09	85.6	F	331	TR	1.14	107.4	F	360	+	TR	1.06	74.1	E	341	
	Westbound																	
	Southbound	L	0.46	28.4	C	114	L	0.46	28.4	C	115		L	0.49	30.6	C	119	
		T	0.55	12.0	B	173	T	0.55	12.1	B	175		T	0.57	13.4	B	186	
		Intersection		42.9	D		Intersection		52.6	D			Intersection		39.9	D		
11	QMT Exit St/E 34th St																	
	Eastbound	T	0.81	5.3	A	24	T	0.85	6.3	A	24		T	0.85	6.5	A	26	
	Westbound	T	0.99	43.2	D	447	T	1.01	46.2	D	447		T	1.01	48.1	D	490	
	Southbound	LR	0.95dr	16.7	B	43	LR	0.95dr	16.7	B	42		LR	0.95dr	16.7	B	42	
		R	0.29	3.5	A	13	R	0.29	3.4	A	12		R	0.29	3.4	A	12	
		Intersection		17.7	B		Intersection		18.9	B			Intersection		19.5	B		
12	QMT Exit St/E 35th St																	
	Westbound	LT	0.71	26.4	C	255	LT	0.74	27.7	C	269		LT	0.74	27.7	C	269	
	Southbound	L	1.13	110.1	F	534	L	1.13	110.1	F	534		L	1.13	110.1	F	534	
		LT	1.25	158.5	F	575	LT	1.25	160.2	F	577		LT	1.25	160.2	F	577	
		R	1.18	128.6	F	542	R	1.36	205.1	F	651	+	R	1.36	205.1	F	651	U
		Intersection		112.1	F		Intersection		135.2	F			Intersection		135.2	F		
13	QMT Exit St/E 37th St																	
	Westbound	TR	0.63	26.4	C	274	TR	0.66	27.3	C	291		TR	0.66	27.3	C	291	
	Northbound	L	0.22	0.1	A	0	L	0.23	0.1	A	0		L	0.23	0.1	A	0	
		R	0.77	23.8	C	293	R	0.77	23.8	C	293		R	0.77	23.8	C	293	
		Intersection		14.5	B		Intersection		14.6	B			Intersection		14.6	B		

Weekday PM Peak Hour

#	Intersection & Approach	2044 No Action					2044 With Action						2044 With Action with Mitigation					
		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	
1	FDR Dr Srv Rd/E 34th St																	
	Eastbound	L	1.81	395.5	F	204	L	2.55	727.2	F	268	+	L	2.55	727.2	F	268	U
		LTR	1.58	291.3	F	253	LTR	1.73	357.9	F	226	+	LTR	1.73	357.9	F	226	U
		R	0.89	14.4	B	93	R	0.95	18.5	B	90		R	0.95	18.5	B	90	
	Westbound	LTR	0.04	31.8	C	16	LTR	0.04	31.8	C	16		LTR	0.04	31.8	C	16	
	Northbound	L	1.20	130.5	F	575	L	1.21	136.8	F	584	+	L	1.21	136.8	F	584	U
		LTR	1.02	53.1	D	491	LTR	1.04	58.9	E	508	+	LTR	1.04	58.9	E	508	U
	Southbound	LTR	0.97	26.5	C	118	LTR	0.97	27.7	C	118		LTR	0.97	27.7	C	118	
		Intersection		108.4	F		Intersection		165.6	F			Intersection		165.6	F		
2	FDR Dr Srv Rd/E 35th St																	
	Westbound	LTR	0.13	26.9	C	35	LTR	0.13	26.9	C	35		LTR	0.13	26.9	C	35	
	Northbound	L	0.90	38.3	D	140	L	0.92	42.0	D	128		L	0.92	42.0	D	128	
		T	1.42	220.5	F	407	T	1.70	344.3	F	447	+	T	1.70	344.3	F	447	U
	Southbound	TR	1.05	72.2	E	489	TR	1.06	75.4	E	495		TR	1.06	75.4	E	495	
		Intersection		112.1	F		Intersection		162.5	F			Intersection		162.5	F		
3	FDR Dr Srv Rd/E 37th St																	
	Southbound	TR	1.03	46.8	D	610	TR	1.11	75.5	E	683	+	TR	1.05	51.6	D	654	
		Intersection		46.8	D		Intersection		75.5	E			Intersection		51.6	D		
4	First Ave/E 30th St																	
	Eastbound	L	1.04	76.7	E	305	L	1.18	129.9	F	367	+	L	1.04	74.9	E	340	
		T	2.00	489.2	F	940	T	2.23	593.6	F	1060	+	T	2.01	490.9	F	1033	
	Northbound	T	0.70	19.9	B	269	T	0.70	20.0	B	271		T	0.77	23.8	C	295	
		R	0.52	22.7	C	99	R	0.52	22.7	C	99		R	0.57	27.0	C	108	
		Intersection		157.8	F		Intersection		206.7	F			Intersection		166.7	F		
5	First Ave/E 34th St																	
	Eastbound	L	1.01	49.4	D	47	L	1.01	49.7	D	38		L	1.01	49.6	D	40	
		T	1.21	106.2	F	451	T	1.35	168.7	F	466	+	T	1.35	169.2	F	484	U
	Westbound	T	1.27	145.3	F	291	T	1.31	161.9	F	302	+	T	1.31	161.9	F	302	U
		R	1.28	150.4	F	150	R	1.28	150.4	F	148		R	1.28	150.4	F	148	
	Northbound	L	0.83	51.1	D	189	L	0.87	57.9	E	202	+	L	0.87	57.9	E	202	U
		T	1.09	78.7	E	404	T	1.09	80.0	F	404		T	1.09	80.0	F	404	
		R	1.17	129.1	F	435	R	1.45	240.9	F	561	+	R	1.45	240.9	F	561	U
		Intersection		101.8	F		Intersection		134.1	F			Intersection		134.2	F		
6	QMT Approach St/E 34th St																	
	Eastbound	L	0.58	22.9	C	88	L	0.63	24.1	C	88		L	0.63	21.2	C	100	
		TR	1.07	51.7	D	532	TR	1.18	93.7	F	524	+	TR	1.15	81.1	F	603	U
	Westbound	T	1.38	230.4	F	236	T	1.45	261.7	F	242	+	T	1.37	226.0	F	232	
		R	1.25	171.8	F	210	R	1.27	184.4	F	207	+	R	1.21	154.4	F	192	
	Northbound	LTR	0.25	42.8	D	46	LTR	0.25	42.8	D	46		LTR	0.29	45.4	D	46	
		Intersection		103.1	F		Intersection		129.3	F			Intersection		111.1	F		
7	Second Ave/E 23rd St																	
	Eastbound	T	0.62	25.5	C	109	T	0.66	26.4	C	99		T	0.61	24.6	C	98	
		R	0.77	35.4	D	71	R	0.97	51.4	D	86	+	R	0.87	36.7	D	69	
	Westbound	L	0.76	59.5	E	152	L	0.80	66.8	E	157	+	L	0.70	49.9	D	144	
		T	1.37	213.9	F	521	T	1.49	264.5	F	574	+	T	1.37	212.0	F	554	
	Southbound	L	1.07	108.4	F	347	L	1.07	108.4	F	347		L	1.07	108.4	F	347	
		T	0.71	17.7	B	288	T	0.71	17.8	B	292		T	0.75	19.8	B	308	
		R	0.38	14.9	B	86	R	0.38	14.9	B	86		R	0.41	16.7	B	92	
		Intersection		62.6	E		Intersection		74.2	E			Intersection		64.3	E		
8	Second Ave/E 30th St																	
	Eastbound	T	2.33	612.1	F	353	T	2.80	819.9	F	356	+	T	2.80	820.0	F	356	U
		R	0.43	8.4	A	6	R	0.43	7.2	A	4		R	0.43	7.3	A	4	
	Southbound	L	0.80	27.7	C	414	L	0.81	28.7	C	426		L	0.81	28.7	C	426	
		T	0.73	14.8	B	245	T	0.74	14.9	B	248		T	0.74	14.9	B	248	
		Intersection		181.7	F		Intersection		268.0	F			Intersection		268.0	F		
9	Second Ave/E 34th St																	
	Eastbound	T	1.10	103.9	F	354	T	1.27	171.9	F	433	+	T	1.12	103.6	F	398	
		R	0.58	42.6	D	137	R	0.58	40.9	D	121		R	0.50	34.8	C	116	
	Westbound	T	0.68	29.3	C	43	T	0.72	31.1	C	43		T	0.63	29.0	C	53	
	Southbound	L	0.61	33.6	C	148	L	0.61	33.6	C	148		L	0.61	33.6	C	148	
		T	0.73	19.4	B	286	T	0.73	19.5	B	289		T	0.80	23.9	C	319	
		R	0.23	14.3	B	49	R	0.23	14.3	B	49		R	0.27	17.3	B	55	
		Intersection		41.2	D		Intersection		59.5	E			Intersection		44.9	D		
10	Second Ave/E 36th St																	
	Eastbound	TR	0.74	36.9	D	183	TR	0.92	45.8	D	236	+	TR	0.88	42.3	D	238	
	Westbound																	
	Southbound	L	0.60	31.1	C	151	L	0.61	31.3	C	153		L	0.64	32.7	C	156	
		T	0.61	12.7	B	224	T	0.61	12.8	B	225		T	0.62	13.5	B	233	
		Intersection		22.7	C		Intersection		26.9	C			Intersection		26.2	C		
11	QMT Exit St/E 34th St																	
	Eastbound	T	0.68	4.0	A	31	T	0.78	6.1	A	29		T	0.78	6.5	A	28	
	Westbound	T	0.76	17.4	B	75	T	0.79	18.4	B	95		T	0.79	20.6	C	250	
	Southbound	LR	0.66	13.5	B	39	LR	0.66	13.5	B	39		LR	0.66	16.7	B	46	
		R	0.25	2.5	A	7	R	0.25	2.5	A	7		R	0.25	2.6	A	7	
		Intersection		8.9	A		Intersection		10.0	A			Intersection		11.2	B		
12	QMT Exit St/E 35th St																	
	Westbound	LT	0.29	16.1	B	104	LT	0.31	16.3	B	110		LT	0.33	18.5	B	117	
	Southbound	L	0.89	48.5	D	423	L	0.89	48.5	D	423		L	0.81	37.5	D	393	
		LT	1.11	105.2	F	480	LT	1.11	105.2	F	480		LT	1.01	71.0	E	451	
		R	1.23	151.2	F	588	R	1.36	204.3	F	663	+	R	1.24	150.7	F	637	
		Intersection		96.7	F		Intersection		116.8	F			Intersection		85.3	F		
13	QMT Exit St/E 37th St																	
	Westbound	TR	0.57	24.7	C	227	TR	0.71	29.3	C	301		TR	0.71	29.3	C	301	
	Northbound	L	0.29	0.2	A	0	L	0.30	0.2	A	0		L	0.30	0.2	A	0	
		R	0.72	22.0	C	285	R	0.72	22.0	C	285		R	0.72	22.0	C	285	
		Intersection		11.4	B		Intersection		12.5	B			Intersection		12.5	B		

Table MA-T3
2044 No Action vs With Action vs With Action with Mitigation Conditions Level of Service Analysis
Signalized Intersections

#	Intersection & Approach	Weekday AM Peak Hour																Weekday Midday Peak Hour																Weekday PM Peak Hour															
		2044 No Action					2044 With Action						2044 With Action with Mitigation						2044 No Action					2044 With Action						2044 With Action with Mitigation						2044 No Action					2044 With Action						2044 With Action with Mitigation					
		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	
14	**Third Ave/E 23rd St**																																															
	Eastbound	L	0.53	33.7	C	89	L	0.54	34.5	C	89		L	0.54	34.5	C	89		L	0.46	30.0	C	89	L	0.46	30.0	C	89		L	0.46	30.0	C	89		L	0.48	32.7	C	81	L	0.48	32.7	C	81		L	0.48	32.7	C	81	
		T	0.71	30.5	C	267	T	0.85	39.3	D	348		T	0.85	39.3	D	348		T	0.75	32.7	C	284	T	0.88	44.2	D	395		T	0.88	44.2	D	395		T	0.83	41.1	D	310	T	0.97	62.2	E	389	+	T	0.97	62.2	E	389	U
		R	0.50	28.1	C	92	R	0.50	28.1	C	92		R	0.50	28.1	C	92		R	0.52	28.5	C	103	R	0.52	28.5	C	103		R	0.52	28.5	C	103		R	0.76	44.5	D	169	R	0.76	44.5	D	169		R	0.76	44.5	D	169	
	Westbound	L	1.40	245.2	F	76	L	2.00	500.2	F	75	+	L	2.00	497.4	F	82	U	L	1.08	97.0	F	44	L	1.67	351.3	F	52	+	L	1.67	352.2	F	59	U	L	1.13	119.9	F	63	L	1.52	289.8	F	70	+	L	1.52	290.6	F	77	U
		T	1.34	202.1	F	188	T	1.38	217.2	F	161	+	T	1.38	214.2	F	183	U	T	1.23	151.6	F	118	T	1.23	151.6	F	112		T	1.23	152.6	F	122		T	1.50	274.7	F	211	T	1.50	275.1	F	191		T	1.50	276.1	F	209	
		R	1.38	224.9	F	163	R	1.69	355.3	F	181	+	R	1.69	352.3	F	201	U	R	1.52	282.9	F	158	R	1.54	287.6	F	147	+	R	1.54	288.7	F	167	U	R	1.29	183.3	F	145	R	1.53	288.3	F	171	+	R	1.53	289.4	F	186	U
	Northbound	LTR	1.16	107.3	F	460	LTR	1.21	128.8	F	492	+	LTR	1.21	128.8	F	492	U	LTR	1.27	151.4	F	542	LTR	1.28	158.8	F	554	+	LTR	1.28	158.8	F	554	U	LTR	1.07	70.5	E	407	LTR	1.10	82.2	F	427	+	LTR	1.10	82.2	F	427	U
	Southbound	LTR	0.11	16.0	B	27	LTR	0.11	16.0	B	27		LTR	0.11	16.0	B	27		LTR	0.17	16.5	B	38	LTR	0.17	16.5	B	38		LTR	0.17	16.5	B	38		LTR	0.14	16.2	B	31	LTR	0.14	16.2	B	31		LTR	0.14	16.2	B	31	
		Intersection		106.7	F		Intersection		139.2	F			Intersection		138.6	F			Intersection		127.5	F		Intersection		138.8	F			Intersection		139.0	F			Intersection		92.5	F		Intersection		116.1	F			Intersection		116.4	F		
15	**Third Ave/E 30th St**																																															
	Eastbound	LT	2.02	484.3	F	372	LT	2.44	673.2	F	386	+	LT	2.44	673.2	F	386	U	LT	2.11	510.0	F	289	LT	2.18	541.6	F	294	+	LT	2.03	473.9	F	291		LT	2.43	653.5	F	390	LT	2.93	877.9	F	390	+	LT	2.93	877.9	F	390	U
	Northbound	TR	0.72	19.5	B	217	TR	0.77	20.8	C	241		TR	0.77	20.8	C	241		TR	0.70	19.0	B	211	TR	0.72	19.3	B	217		TR	0.75	21.3	C	228		TR	0.89	25.9	C	320	TR	0.93	29.0	C	362		TR	0.93	29.0	C	362	
		Intersection		179.0	F		Intersection		263.2	F			Intersection		263.2	F			Intersection		170.2	F		Intersection		181.6	F			Intersection		161.9	F			Intersection		218.1	F		Intersection		316.0	F			Intersection		316.0	F		
16	**Third Ave/E 34th St**																																															
	Eastbound	T	1.25	137.7	F	166	T	1.65	318.5	F	176	+	T	1.24	131.8	F	155		T	2.04	495.1	F	492	T	2.23	582.7	F	477	+	T	1.98	470.9	F	466		T	1.31	170.0	F	442	T	1.58	292.8	F	456	+	T	1.35	185.3	F	405	U
	Westbound	T	1.02	51.6	D	516	T	1.10	73.8	E	539	+	T	0.98	34.6	C	495		T	1.23	135.7	F	582	T	1.25	141.3	F	584	+	T	1.21	125.4	F	573		T	1.11	89.3	F	532	T	1.13	99.5	F	556	+	T	1.07	74.0	E	534	
		R	0.28	10.5	B	35	R	0.28	10.3	B	34		R	0.24	8.0	A	26		R	0.38	17.2	B	50	R	0.38	17.1	B	50		R	0.37	16.4	B	46		R	0.34	17.4	B	52	R	0.34	17.2	B	49		R	0.31	15.9	B	43	
	Northbound	LTR	0.76	23.5	C	220	LTR	0.77	23.8	C	222		LTR	0.86	29.9	C	244		LTR	0.75	23.3	C	213	LTR	0.76	23.4	C	215		LTR	0.78	24.6	C	220		LTR	0.91	30.3	C	329	LTR	0.93	31.6	C	344		LTR	0.98	40.3	D	379	
		Intersection		53.3	D		Intersection		105.0	F			Intersection		54.9	D			Intersection		148.7	F		Intersection		173.3	F			Intersection		145.6	F			Intersection		65.5	E		Intersection		95.2	F			Intersection		74.4	E		
17	**Third Ave/E 35th St**																																															
	Westbound	T	1.42	218.7	F	559	T	1.86	416.6	F	636	+	T	1.86	416.6	F	636	U	T	1.41	217.1	F	612	T	1.59	296.0	F	637	+	T	1.42	218.3	F	596		T	1.46	243.6	F	486	T	1.61	307.5	F	503	+	T	1.47	246.4	F	526	
		R	0.19	18.9	B	33	R	0.19	19.7	B	27		R	0.19	19.7	B	27		R	0.22	18.8	B	32	R	0.22	19.2	B	29		R	0.19	16.2	B	29		R	0.18	21.9	C	30	R	0.18	21.7	C	28		R	0.16	20.0	B	28	
	Northbound	LT	0.54	3.0	A	16	LT	0.54	3.0	A	16		LT	0.54	3.0	A	16		LT	0.57	4.5	A	24	LT	0.57	4.5	A	24		LT	0.64	6.8	A	31		LT	0.71	2.9	A	18	LT	0.71	2.9	A	17		LT	0.77	3.1	A	17	
		Intersection		76.0	E		Intersection		168.4	F			Intersection		168.4	F			Intersection		77.5	E		Intersection		112.3	F			Intersection		84.9	F			Intersection		63.6	E		Intersection		85.1	F			Intersection		68.8	E		
18	**Third Ave/E 36th St**																																															
	Eastbound	LT	1.07	61.4	E	266	LT	1.18	109.0	F	266	+	LT	1.07	59.0	E	264		LT	0.67	27.7	C	135	LT	0.72	28.7	C	134		LT	0.72	28.7	C	134		LT	0.42	21.1	C	121	LT	0.58	27.5	C	182		LT	0.59	28.2	C	183	
	Northbound	TR	0.42	2.3	A	13	TR	0.42	2.3	A	13		TR	0.44	2.4	A	13		TR	0.55	3.4	A	17	TR	0.55	3.4	A	17		TR	0.55	3.5	A	17		TR	0.70	3.6	A	21	TR	0.70	3.6	A	21		TR	0.69	3.4	A	20	
		R	0.66	28.1	C	259	R	0.66	28.0	C	259		R	0.74	33.4	C	286		R	1.21	147.6	F	353	R	1.21	147.5	F	353		R	1.21	146.9	F	360		R	1.24	148.7	F	426	R	1.25	153.5	F	431	+	R	1.19	128.1	F	426	
		Intersection		27.7	C		Intersection		48.9	D			Intersection		28.6	C			Intersection		26.7	C		Intersection		27.0	C			Intersection		27.0	C			Intersection		24.1	C		Intersection		26.6	C			Intersection		24.3	C		
19	**Third Ave/E 37th St**																																															
	Westbound	T	0.89	24.4	C	444	T	1.08	63.8	E	541	+	T	1.01	39.4	D	512		T	0.69	16.8	B	212	T	0.73	17.6	B	227		T	0.73	17.6	B	227		T	0.87	23.5	C	296	T	0.96	33.5	C	488		T	0.96	33.5	C	488	
		R	0.99	75.6	E	194	R	0.99	72.6	E	173		R	0.83	43.5	D	150		R	0.63	37.2	D	98	R	0.63	37.1	D	98		R	0.63	37.1	D	98		R	1.12	114.0	F	257	R	1.12	113.1	F	258		R	1.12	113.1	F	258	
	Northbound	LT	0.64	7.5	A	38	LT	0.64	7.4	A	38		LT	0.69	8.3	A	43		LT	0.54	3.9	A	13	LT	0.54	3.9	A	13		LT	0.54	2.7	A	10		LT	0.74	6.3	A	31	LT	0.74	6.5	A	31		LT	0.74	4.8	A	20	
		Intersection		23.2	C		Intersection		41.8	D			Intersection		27.2	C			Intersection		13.2	B		Intersection		13.7	B			Intersection		13.2	B			Intersection		28.0	C		Intersection		32.0	C			Intersection		31.2	C		
20	**Lexington Ave/E 30th St**																																															
	Eastbound	TR	2.17	577.5	F	260	TR	2.68	809.3	F	260	+	TR	2.68	809.3	F	260	U	TR	2.32	647.6	F	290	TR	2.39	678.0	F	289	+	TR	2.30	637.8	F	281		TR	2.18	587.8	F	183	TR	2.68	811.0	F	184	+	TR	2.68	811.0	F	184	U
	Southbound	LT	1.07	37.0	D	26	LT	1.08	41.4	D	24		LT	1.08	41.4	D	24		LT	0.84	5.6	A	18	LT	0.84	5.4	A	18		LT	0.86	5.7	A	18		LT	0.85	2.4	A	10	LT	0.85	1.6	A	10		LT	0.85	1.6	A	10	
		Intersection		201.8	F		Intersection		311.4	F			Intersection		311.3	F			Intersection		224.4	F		Intersection		239.2	F			Intersection		225.4	F			Intersection		223.4	F		Intersection		347.3	F			Intersection		347.3	F		
21	**Lexington Ave/E 31st St**																																															
	Westbound	LT	1.99	488.4	F	753	LT	2.51	719.8	F	979	+	LT	2.51	719.8	F	979	U	LT	1.68	351.7	F	621	LT	1.82	410.6	F	678	+	LT	1.68	350.0	F	662		LT	1.54	287.9	F	618	LT	1.88	435.4	F	777	+	LT	1.88	435.4	F	777	U
	Southbound																																			TR	0.98	12.2	B	21	TR	1.00	15.8	B	382		TR	1.00	17.5	B	384	
		T	1.18	86.4	F	14	T	1.26	119.7	F	13	+	T	1.26	118.6	F	24	U	T	0.76	2.3	A	17	T	0.76	1.8	A	16		T	0.79	2.7	A	16																		
		R	1.19	91.7	F	6	R	1.66	301.3	F	220	+	R	1.66	300.7	F	229	U	R	0.59	4.5	A	5	R	0.94	11.5	B	7		R	1.02	36.5	D	7																		
		Intersection		192.2	F		Intersection		321.6	F			Intersection		320.9	F			Intersection		97.8	F		Intersection		116.3	F			Intersection		102.5	F			Intersection		87.0	F		Intersection		146.0	F			Intersection		147.2	F		
22	**Lexington Ave/E 32nd St**																																															
	Eastbound	TR	0.79	39.6	D	244	TR	0.84	44.6	D	284								TR	0.85	47.3	D	276	TR	0.89	52.3	D	296	+							TR	0.91	52.5	D	325	TR	0.97	65.0	E	361	+						
													T	0.64	31.8	C	194													T	0.60	30.1	C	182											T	0.71	32.9	C	231	
													R	0.27	23.8	C	56													R	0.29	24.0	C	63											R	0.28	22.5	C	60	
	Southbound	LT	1.25	115.3	F	417	LT	1.31	141.6	F	415	+	LT	1.25	114.0	F	435		LT	1.00	21.9	C	416	LT	1.04	34.4	C	449		LT	1.04	34.4	C	448		LT	1.00	8.0	A	14	LT	1.01	10.4	B	14		LT	1.01	10.4	B	14	
		Intersection		105.4	F		Intersection		128.8	F			Intersection		102.9	F			Intersection		26.2	C		Intersection		37.4	D			Intersection		33.4	C			Intersection		16.5	B		Intersection		21.4	C			Intersection		14.5	B		
23	**Lexington Ave/E 33rd St**																																															
	Westbound	LT	0.46	25.2	C	135	LT	0.46	25.2	C	135		LT	0.50	27.4	C	141		LT	0.77	40.2	D	213	LT	0.77	40.2	D	213		LT	0.77	40.2	D	213		LT	0.55	27.2	C	170	LT	0.55	27.2	C	170		LT	0.55	27.2	C	170	
	Southbound																																			TR	1.10	49.1	D	353	TR	1.11	53.4	D	353		TR	1.11	53.4	D	353	
		T	1.21	101.7	F	49	T	1.28	131.3	F	51	+	T	1.22	101.5	F	30		T	0.84	4.5	A	25	T	0.89	3.7	A	24		T	0.89	3.7	A	24																		
		R	0.71	7.2	A	8	R	0.71	7.1	A	8		R	0.64	4.1	A	5		R	0.67	7.9	A	7	R	0.67	4.2	A	6		R	0.67	4.3	A	6																		
		Intersection		90.1	F		Intersection		116.2	F			Intersection		90.4	F			Intersection		10.4	B		Intersection		9.2	A			Intersection		9.3	A			Intersection		46.1	D		Intersection		49.8	D			Intersection		49.8	D		
24	**Lexington Ave/E 34th St**																																															
	Eastbound	T	1.30	185.6	F	471	T	1.65	334.1	F	538	+	T	1.65	334.1	F	538	U	T	1.25	143.7	F	263	T	1.34	185.2	F	276	+	T	1.34	185.4	F	282	U	T	1.06	63.6	E	285	T	1.26	147.3	F	287	+	T	1.26	147.3	F	287	U
		R	0.54	34.1	C	118	R	0.55	32.6	C	104		R	0.55	32.6	C	104		R	0.37	23.0	C	49	R	0.37	23.1	C	47		R	0.37	23.3	C	47		R	0.28	20.7	C	44	R	0.28	20.7	C	37		R	0.28	20.7	C	37	
	Westbound	T	1.33	173.1	F	575	T	1.42	214.5	F	591	+	T	1.42	213.7	F	680	U	T	1.46	240.8	F	568	T	1.48	251.9	F	577	+	T	1.48	252.3	F	598	U	T	1.29	161.8	F	494	T	1.33	180.4	F	500	+	T	1.33	181.4	F	535	U
	Southbound	LT	1.24	115.8	F	451	LT	1.30	143.8	F	448	+	LT	1.30	144.1	F	542	U	LT	1.02	26.9	C	411	LT	1.07	43.8	D	419		LT	1.07	46.2	D	434	U	LT	1.05	32.9	C	421	LT	1.06	36.4	D	423		LT	1.06	38.0	D	419	
		R	0.32	2.6	A	4	R	0.32	3.2	A	5		R	0.32	3.3	A	6		R	0.74	14.4	B	12	R	0.74	12.8	B	15		R	0.74	15.9	B	15		R	0.89	27.9	C	9	R	0.89	27.2	C	10		R	0.89	31.4	C	10	
		Intersection		131.9	F		Intersection		182.2	F			Intersection		182.2	F			Intersection		104.1	F		Intersection		122.4	F			Intersection		123.8	F			Intersection		67.5	E		Intersection		91.8	F			Intersection		93.0	F		
25	**Lexington Ave/E 35th St**																																															
	Westbound	L	1.29	183.2	F	178	L	1.70	364.0	F	201	+	L	0.77	48.4	D	80		L	0.92	34.3	C	98	L	1.23	135.6	F	120	+	L	0.47	23.0	C	60		L	0.90	35.4	D	99	L	0.96	41.3	D	100		L	0.44	27.6	C	51	
		T	1.38	213.3	F	390	T	1.72	364.3	F	403	+	T	1.59	306.2	F	376	U	T	1.38	188.2	F	417	T	1.46	223.4	F	386	+	T	1.29	146.7	F	399		T	1.42	207.6	F	439	T	1.53	255.5	F	440	+	T	1.35	175.7	F	439	
	Southbound	T	1.13	66.1	E	409	T	1.14	71.4	E	410	+	T	1.14	71.4	E	410	U	T	0.88	8.3	A	53	T	0.89	8.4	A	52		T	0.96	14.9	B	157		T	0.94	9.0	A	38	T	0.94	9.0	A	37		T	0.96	12.3	B	46	
		R	0.56	5.2	A	8	R	0.56	5.3	A	8		R	0.56	5.3	A	8		R	0.67	10.8	B	13	R	0.67	10.5	B	13		R	0.77	17.8	B	18		R	0.57	9.0	A	6	R	0.57	8.9	A	6		R	0.60	11.2	B	7	
		Intersection		111.2	F		Intersection		184.6	F			Intersection		129.5	F			Intersection		63.3	E		Intersection		84.3	F			Intersection		54.9	D			Intersection		69.0	E		Intersection		86.8	F			Intersection		63.4	E		
26	**Lexington Ave/E 36th St**																																															
	Eastbound	T	1.09	63.8	E	227	T	1.22	121.4	F	237	+	T	1.22	121.4	F	237	U	T	1.30	158.7	F	306	T	1.42	209.8	F	338	+	T	1.41	207.7	F	337	U	T	0.62	8.6	A	68	T	0.91	14.5	B	121		T	0.91	14.5	B	121	
		R	0.96	35.0	D	113	R	0.96	34.9	C	104		R	0.96	34.9	C	104		R	1.11	80.7	F	167	R	1.11	80.1	F	152		R	1.11	80.1	F	152		R	0.57	14.0	B	46	R	0.57	14.7	B	34		R	0.57	14.7	B	34	
	Southbound	LT	1.08	45.3	D	429	LT	1.09	49.8	D	429		LT	1.09	49.8	D	429		LT	0.91	14.1	B	131	LT	0.92	14.7	B	172		LT	0.92	14.7	B	172		LT	1.00	23.7	C	417	LT	1.00	23.9	C	417		LT	1.00	23.9	C	417	
		Intersection		49.7	D		Intersection		70.1	E			Intersection		70.1	E			Intersection		64.0	E		Intersection		82.6	F			Intersection		82.0	F			Intersection		19.4	B		Intersection		20.4	C			Intersection		20.4	C		
27	**Lexington Ave/E 37th St**																																															
	Westbound	L	1.14	122.4	F	338	L	1.15	114.0	F	253		L	1.15	119.5	F	279		L	0.54	16.5	B	74	L	0.54	16.1	B	66		L	0.54	16.2	B	66		L	0.71	17.2	B	75	L	0.70	16.9	B	59		L	0.70	16.9	B	59	
		T	1.40	225.7	F	461	T	1.80	403.1	F	513	+	T	1.80	405.5	F	558	U	T	0.93	27.9	C	343	T	0.98	35.6	D	365		T	0.98	35.6	D	365		T	1.01	34.0	C	394	T	1.14	81.8	F	442	+	T	1.14	81.8	F	442	U
	Southbound	T	1.00	48.0	D	436	T	1.01	50.8	D	444		T	1.01	50.8	D	444		T	0.78	25.7	C	285	T	0.80	26.1	C	291		T	0.80	26.1	C	291		T	0.94	37.9	D	366	T	0.94	38.4	D	368		T	0.94	38.4	D	368	
		R	0.34	20.7	C	66	R	0.34	20.7	C	66		R	0.34	20.7	C	66		R	0.40	20.9	C	88	R	0.40	20.9	C	88		R	0.40	20.9	C	88		R	0.73	35.3	D	171	R	0.73	35.3	D	171		R	0.73	35.3	D	171	
		Intersection		111.2	F		Intersection		184.3	F			Intersection		185.8	F			Intersection		25.5	C		Intersection		28.7	C			Intersection		28.7	C			Intersection		34.5	C		Intersection		53.6	D			Intersection		53.6	D		
28	**Park Ave/E 30th St**																																															
	Eastbound	LT	2.66	793.2	F	794	LT	3.43	1135.2	F	1032	+	LT	3.43	1135.2	F	1032	U	LT	2.56	745.7	F	827	LT	2.65	786.1	F	857	+	LT	2.65	786.1	F	857	U	LT	3.76	1288.3	F	1041	LT	4.64	1681.6	F	1283	+	LT	4.64	1681.6	F	1283	U
		R	1.20	173.5	F	223	R	1.20	173.5	F	223		R	1.20	173.5	F	223		R	0.66	58.0	E	90	R	0.66	58.0	E	90		R	0.66	58.0	E	90		R	0.50	43.8	D	62	R	0.50	43.8	D	62		R	0.50	43.8	D	62	
	Northbound	TR	0.71	20.9	C	253	TR	0.71	20.9	C	253		TR	0.71	20.9	C	253		TR	0.93	34.2	C	417	TR	0.94	35.2	D	423		TR	0.94	35.2	D	423		TR	0.77	22.7	C	293	TR	0.80	23.7	C	310		TR	0.80	23.7	C	310	
	Southbound	LT	1.17	86.9	F	376	LT	1.17	87.4	F	63		LT	1.17	87.7	F	90		LT	0.66	3.2	A	38	LT	0.66	3.1	A	37		LT	0.66	3.1	A	37		LT	0.77	4.4	A	53	LT	0.78	4.2	A	49		LT	0.78	5.6	A	64	
		Intersection		234.1	F		Intersection		365.3	F			Intersection		365.4	F			Intersection		195.8	F		Intersection		210.3	F			Intersection		210.3	F			Intersection		372.8	F		Intersection		553.3	F			Intersection		553.8	F		

Table MA-T3
2044 No Action vs With Action vs With Action with Mitigation Conditions Level of Service Analysis
Signalized Intersections

#	Intersection & Approach	Lane Group	Weekday AM Peak Hour 2044 No Action v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	2044 With Action Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	+	2044 With Action with Mitigation Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Weekday Midday Peak Hour 2044 No Action Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	2044 With Action Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	+	2044 With Action with Mitigation Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Weekday PM Peak Hour 2044 No Action Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	2044 With Action Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	+	2044 With Action with Mitigation Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	
	Park Ave/E 31st St																																															
29	Westbound	LTR	1.82	386.5	F	302	LTR	2.39	643.8	F	312	+							LTR	1.73	346.3	F	346	LTR	2.05	492.7	F	441	+							LTR	1.73	351.3	F	438	LTR	2.02	481.7	F	457	+					
													L	0.44	12.7	B	7												L	0.04	11.9	B	1												L	0.36	14.1	B	11	
													T	1.75	356.5	F	107												T	1.66	319.1	F	347												T	1.59	285.4	F	321	
													R	0.42	12.4	B	9												R	0.38	14.2	B	16												R	0.33	13.7	B	13	
	Northbound	T	0.60	5.7	A	53	T	0.61	5.6	A	54		T	0.61	5.6	A	54		T	0.73	7.4	A	96	T	0.74	7.5	A	96		T	0.74	7.5	A	96		T	0.70	6.2	A	84	T	0.73	6.2	A	98		T	0.71	5.6	A	90	
	Southbound	TR	1.06	62.4	E	534	TR	1.18	110.4	F	604	+	TR	1.18	110.4	F	604	U	TR	0.92	31.0	C	442	TR	0.94	33.9	C	455		TR	0.94	33.9	C	455		TR	0.94	33.4	C	464	TR	1.02	49.5	D	510	+	TR	0.99	43.3	D	501	
		Intersection		124.0	F		Intersection		239.9	F			Intersection		136.9	F			Intersection		92.3	F		Intersection		140.7	F			Intersection		87.5	F			Intersection		102.6	F		Intersection		152.9	F			Intersection		85.5	F		
	Park Ave/E 34th St																																														
30	Eastbound	T	0.91	47.4	D	469	T	1.08	90.8	F	600	+	T	1.08	90.8	F	600	U	T	1.84	418.2	F	713	T	1.94	464.0	F	756	+	T	1.87	431.9	F	749	U	T	1.45	245.0	F	678	T	1.81	402.4	F	810	+	T	1.81	402.4	F	810	U
		R	0.41	26.3	C	80	R	0.41	26.3	C	80		R	0.41	26.3	C	80		R	0.44	26.0	C	90	R	0.44	26.0	C	90		R	0.42	24.6	C	88		R	0.25	21.9	C	54	R	0.25	21.9	C	54		R	0.25	21.9	C	54	
	Westbound	T	1.10	67.8	E	310	T	1.19	106.7	F	314	+	T	1.19	106.6	F	313	U	T	2.32	619.9	F	490	T	2.40	653.1	F	495	+	T	2.20	563.7	F	521		T	1.40	205.5	F	408	T	1.44	225.9	F	411	+	T	1.44	225.9	F	411	U
		R	0.48	11.1	B	42	R	0.48	11.0	B	38		R	0.48	11.0	B	38		R	0.40	16.4	B	48	R	0.40	16.4	B	48		R	0.38	15.5	B	45		R	0.38	17.8	B	51	R	0.38	17.8	B	49		R	0.38	17.8	B	49	
	Northbound	T	0.74	21.1	C	348	T	0.76	21.5	C	357		T	0.76	21.5	C	357		T	0.81	23.7	C	387	T	0.83	24.5	C	400		T	0.85	26.1	C	410		T	0.77	21.9	C	371	T	0.82	23.8	C	411		T	0.82	23.8	C	411	
	Southbound	TR	0.97	12.6	B	88	TR	1.04	29.7	C	101		TR	1.04	29.7	C	101		TR	1.00	24.8	C	116	TR	1.02	29.2	C	444		TR	1.04	32.8	C	86		TR	1.02	30.8	C	485	TR	1.06	44.8	D	501		TR	1.06	44.7	D	501	
		Intersection		29.1	C		Intersection		48.5	D			Intersection		48.5	D			Intersection		189.0	F		Intersection		204.5	F			Intersection		185.0	F			Intersection		88.1	F		Intersection		123.3	F			Intersection		123.2	F		
	Park Ave/E 35th St																																														
31	Westbound	L	0.36	9.8	A	14	L	0.54	10.3	B	17		L	0.54	10.3	B	17		L	0.27	4.6	A	5	L	0.31	4.5	A	6		L	0.28	4.0	A	6		L	0.48	10.1	B	19	L	0.55	10.3	B	19		L	0.55	10.4	B	19	
		TR	1.35	187.0	F	368	TR	1.61	307.2	F	363	+	TR	1.61	307.2	F	411	U																		TR	1.39	214.2	F	359	TR	1.48	254.8	F	358	+	TR	1.48	255.3	F	435	U
																			T	1.41	219.7	F	369	T	1.50	260.8	F	378	+	T	1.38	206.6	F	419																	
																			R	0.97	46.7	D	120	R	0.97	47.0	D	114		R	0.88	36.9	D	123																	
	Northbound	LT	0.92	16.5	B	119	LT	0.92	17.0	B	127		LT	0.92	17.0	B	127		LT	0.93	15.8	B	149	LT	0.94	16.4	B	475		LT	1.00	30.3	C	506		LT	0.98	24.2	C	513	LT	1.02	33.5	C	554		LT	1.02	33.4	C	554	
	Southbound	TR	1.10	53.2	D	82	TR	1.14	70.2	E	80	+	TR	1.14	70.2	E	80	U	TR	0.97	7.6	A	50	TR	0.98	8.2	A	49		TR	1.05	32.7	C	78		TR	0.97	7.2	A	69	TR	1.00	10.9	B	66		TR	1.00	10.9	B	66	
		Intersection		77.7	E		Intersection		124.8	F			Intersection		124.8	F			Intersection		31.7	C		Intersection		39.4	D			Intersection		40.7	D			Intersection		32.2	C		Intersection		44.0	D			Intersection		44.0	D		
	Park Ave/E 36th St																																														
32	Eastbound	TR	1.60	307.4	F	530	TR	1.71	356.2	F	582	+	TR	1.71	356.2	F	582	U	TR	1.15	112.4	F	347	TR	1.22	142.0	F	381	+	TR	1.22	142.0	F	381	U	TR	1.41	225.1	F	480	TR	1.70	353.3	F	618	+	TR	1.70	353.3	F	618	U
	Northbound	TR	1.13	73.4	E	503	TR	1.13	76.7	E	496		TR	1.13	76.7	E	496		TR	1.39	191.3	F	667	TR	1.40	199.4	F	670	+	TR	1.40	197.8	F	617	U	TR	1.21	110.0	F	522	TR	1.29	146.3	F	533	+	TR	1.29	146.3	F	533	U
	Southbound	LT	1.31	153.8	F	420	LT	1.36	175.9	F	427	+	LT	1.36	177.4	F	462	U	LT	1.14	80.6	F	529	LT	1.15	83.7	F	525	+	LT	1.15	83.7	F	525	U	LT	1.06	47.4	D	464	LT	1.09	59.1	E	457	+	LT	1.09	59.1	E	473	U
		Intersection		219.1	F		Intersection		254.4	F			Intersection		255.2	F			Intersection		92.3	F		Intersection		106.0	F			Intersection		106.0	F			Intersection		125.8	F		Intersection		201.7	F			Intersection		202.1	F		
	Park Ave/E 37th St																																														
33	Westbound	TR	0.69	30.0	C	182	TR	0.86	34.0	C	188		TR	0.91	36.5	D	190		TR	1.14	119.1	F	460	TR	1.20	140.6	F	457	+							TR	1.34	199.9	F	540	TR	1.47	259.3	F	535	+						
																													T	0.93	53.0	D	327												T	1.21	141.8	F	406	
																													R	0.53	40.7	D	115												R	0.69	40.9	D	109	
	Northbound	LT	1.09	49.3	D	73	LT	1.09	49.9	D	72		LT	1.04	25.8	C	53		LT	0.95	6.7	A	27	LT	0.96	6.8	A	27		LT	0.96	6.8	A	27		LT	1.13	64.3	E	76	LT	1.14	68.7	E	71	+	LT	1.12	56.2	E	62	
	Southbound	TR	1.20	121.5	F	637	TR	1.24	138.5	F	667	+	TR	1.18	112.7	F	648		TR	0.92	32.2	C	426	TR	0.92	32.7	C	453		TR	0.92	32.7	C	453		TR	0.91	31.7	C	412	TR	0.94	34.9	C	459		TR	0.92	31.5	C	424	
		Intersection		71.5	E		Intersection		75.7	E			Intersection		63.7	E			Intersection		28.2	C		Intersection		37.5	D			Intersection		39.9	D			Intersection		60.8	E		Intersection		92.4	F			Intersection		99.7	F		
	Madison Ave/E 30th St																																														
34	Eastbound	L	0.43	29.0	C	100	L	0.44	29.2	C	102		L	0.44	29.2	C	102		L	0.64	40.1	D	147	L	0.74	47.4	D	182	+	L	0.74	47.4	D	182	U	L	0.62	35.8	D	152	L	0.78	47.1	D	219	+	L	0.78	47.1	D	219	U
		T	2.72	814.7	F	810	T	3.51	1171.5	F	1099	+	T	3.51	1171.5	F	1099	U	T	3.16	1016.5	F	799	T	3.28	1072.3	F	837	+	T	3.28	1072.3	F	837	U	T	3.49	1164.0	F	1004	T	4.35	1549.7	F	1293	+	T	4.35	1549.7	F	1293	U
	Northbound																		TR	1.00	56.8	E	467	TR	1.00	57.0	E	468		TR	1.00	57.0	E	468																	
		T	0.95	46.0	D	428	T	0.95	46.2	D	429		T	0.95	46.2	D	429																			T	1.16	112.7	F	633	T	1.17	115.4	F	638		T	1.17	115.4	F	638	
		R	0.55	31.0	C	102	R	0.55	31.0	C	102		R	0.55	31.0	C	102																			R	0.55	33.9	C	87	R	0.55	33.9	C	87		R	0.55	33.9	C	87	
		Intersection		337.0	F		Intersection		538.3	F			Intersection		538.3	F			Intersection		401.5	F		Intersection		426.2	F			Intersection		426.2	F			Intersection		483.3	F		Intersection		687.0	F			Intersection		687.0	F		
	Madison Ave/E 31st St																																														
35	Westbound	TR	1.94	464.1	F	991	TR	2.80	849.8	F	1499	+							TR	1.72	366.7	F	834	TR	2.08	526.4	F	1036	+							TR	1.76	381.9	F	929	TR	2.18	570.3	F	1199	+						
													T	2.34	642.6	F	1302	U												T	1.70	359.7	F	859												T	1.76	382.7	F	998	
													R	0.50	31.5	C	114												R	0.49	33.9	C	107												R	0.47	30.2	C	109	
	Northbound	LT	1.19	99.0	F	508	LT	1.19	99.5	F	508		LT	1.19	99.5	F	508		LT	1.10	64.6	E	440	LT	1.13	75.6	E	460	+	LT	1.11	64.1	E	452		LT	1.26	125.0	F	468	LT	1.29	142.5	F	500	+	LT	1.29	142.5	F	500	U
		Intersection		257.9	F		Intersection		495.9	F			Intersection		351.1	F			Intersection		185.3	F		Intersection		273.6	F			Intersection		174.3	F			Intersection		223.3	F		Intersection		325.7	F			Intersection		226.0	F		
	Madison Ave/E 32nd St																																														
36	Eastbound	L	0.64	37.8	D	179	L	0.73	45.1	D	222	+	L	0.67	37.4	D	205		L	0.69	42.0	D	214	L	0.75	46.9	D	243		L	0.69	39.4	D	225		L	0.60	35.5	D	165	L	0.90	66.5	E	296	+	L	0.90	66.5	E	296	U
		T	0.86	59.8	E	282	T	1.01	91.4	F	346	+	T	0.94	70.8	E	332	U	T	0.71	45.7	D	200	T	0.84	59.8	E	254	+	T	0.78	48.8	D	240		T	0.78	48.5	D	253	T	1.01	89.3	F	354	+	T	1.01	89.3	F	354	U
	Northbound	T	0.88	17.0	B	202	T	0.90	18.9	B	203		T	0.96	22.6	C	296		T	0.75	9.4	A	64	T	0.79	10.0	B	69		T	0.84	16.0	B	100		T	1.03	30.8	C	88	T	1.08	52.7	D	91	+	T	1.08	53.4	D	99	U
		R	0.58	12.4	B	32	R	0.62	14.1	B	34		R	0.68	16.1	B	48		R	0.79	13.4	B	17	R	0.79	13.9	B	18		R	0.89	24.6	C	27		R	0.72	14.1	B	20	R	0.73	14.2	B	20		R	0.73	14.9	B	23	
		Intersection		25.9	C		Intersection		34.3	C			Intersection		32.3	C			Intersection		19.1	B		Intersection		22.9	C			Intersection		24.8	C			Intersection		32.2	C		Intersection		57.0	E			Intersection		57.5	E		
	Madison Ave/E 34th St																																														
37	Eastbound	L	1.67	403.8	F	130	L	1.73	434.5	F	134	+	L	1.73	434.5	F	134	U	L	0.61	74.0	E	58	L	0.61	74.0	E	58		L	0.61	74.0	E	58		L	0.67	71.3	E	75	L	0.84	115.3	F	85	+	L	0.84	115.3	F	85	U
		T	1.39	220.2	F	660	T	1.68	350.7	F	825	+	T	1.68	350.7	F	825	U	T	1.35	205.3	F	709	T	1.42	233.7	F	754	+	T	1.42	233.7	F	754	U	T	1.14	116.7	F	618	T	1.28	170.5	F	719	+	T	1.28	170.5	F	719	U
	Westbound	T	1.06	87.1	F	599	T	1.16	121.6	F	677	+	T	1.16	121.6	F	677	U	T	1.78	396.1	F	937	T	1.82	411.2	F	958	+	T	1.82	411.2	F	958	U	T	1.16	124.2	F	617	T	1.21	144.5	F	655	+	T	1.21	144.5	F	655	U
		R	0.25	23.9	C	69	R	0.25	24.0	C	69		R	0.25	24.0	C	69		R	0.51	32.9	C	132	R	0.51	32.9	C	132		R	0.51	32.9	C	132		R	0.42	27.8	C	109	R	0.42	27.9	C	109		R	0.42	27.9	C	109	
	Northbound	LT	1.06	72.6	E	503	LT	1.06	74.5	E	507		LT	1.06	74.5	E	507		LT	0.99	53.1	D	461	LT	1.02	62.3	E	482	+	LT	1.02	62.3	E	482	U	LT	1.25	148.6	F	665	LT	1.34	187.6	F	732	+	LT	1.34	187.6	F	732	U
		R	0.48	27.9	C	85	R	0.55	32.0	C	93		R	0.55	32.0	C	93		R	0.76	53.5	D	142	R	0.79	58.1	E	150	+	R	0.79	58.1	E	150		R	0.64	39.1	D	111	R	0.77	51.9	D	154	+	R	0.77	51.9	D	154	U
		Intersection		117.5	F		Intersection		164.8	F			Intersection		164.8	F			Intersection		184.5	F		Intersection		199.2	F			Intersection		125.0	F			Intersection		160.7	F		Intersection		160.7	F			Intersection		160.7	F		
	Madison Ave/E 35th St																																														
38	Westbound	T	1.82	407.9	F	802	T	2.20	579.3	F	759	+	T	1.53	276.2	F	875		T	1.60	315.4	F	612	T	1.69	354.2	F	651	+	T	1.57	299.4	F	634		T	1.67	345.6	F	652	T	1.80	399.0	F	705	+	T	1.36	204.3	F	633	
		R	0.98	107.3	F	207	R	0.98	108.9	F	208		R	0.97	105.6	F	206		R	1.14	149.7	F	299	R	1.14	149.7	F	299		R	1.13	145.6	F	297		R	1.10	138.9	F	257	R	1.10	138.9	F	257		R	1.09	134.8	F	255	
	Northbound	LT	0.82	6.8	A	42	LT	0.82	6.8	A	41		LT	0.82	6.8	A	41		LT	0.74	7.7	A	54	LT	0.75	7.5	A	50		LT	0.80	11.5	B	92		LT	0.97	9.9	A	40	LT	1.03	22.1	C	38		LT	1.03	22.1	C	38	
		Intersection		148.5	F		Intersection		228.7	F			Intersection		115.2	F			Intersection		108.5	F		Intersection		121.3	F			Intersection		107.9	F			Intersection		109.1	F		Intersection		131.5	F			Intersection		80.1	F		
	Madison Ave/E 36th St																																														
39	Eastbound	LT	1.04	73.9	E	484	LT	1.12	103.1	F	542	+	LT	1.05	72.6	E	517		LT	1.17	125.4	F	434	LT	1.22	145.3	F	462	+	LT	1.16	117.3	F	446		LT	0.89	43.1	D	391	LT	1.03	70.8	E	495	+	LT	1.03	70.8	E	495	U
	Northbound	T	0.70	4.5	A	44	T	0.70	4.5	A	44		T	0.74	8.1	A	74		T	0.66	5.5	A	62	T	0.66	5.4	A	60		T	0.69	5.1	A	59		T	0.79	4.8	A	47	T	0.80	4.0	A	43		T	0.80	4.0	A	43	
		R	0.47	5.0	A	19	R	0.48	5.1	A	19		R	0.52	8.6	A	27		R	0.48	6.8	A	23	R	0.54	8.0	A	26		R	0.57	8.0	A	24		R	0.65	6.5	A	19	R	0.98	16.8	B	26		R	0.98	16.8	B	26	
		Intersection		34.0	C		Intersection		48.3	D			Intersection		36.8	D			Intersection		55.5	E		Intersection		64.8	E			Intersection		52.8	D			Intersection		19.3	B		Intersection		31.7	C			Intersection		31.7	C		
	Madison Ave/E 37th St																																														
40	Westbound	TR	1.25	155.3	F	573	TR	1.52	273.1	F	760	+	TR	1.52	273.1	F	760	U	TR	1.16	118.6	F	466	TR	1.21	140.6	F	501	+	TR	1.21	140.6	F	501	U	TR	1.11	97.7	F	546	TR	1.24	151.3	F	643	+	TR	1.24	151.3	F	643	U
	Northbound	LT	1.18	113.2	F	615	LT	1.18	113.1	F	610		LT	1.18	113.1	F	615		LT	1.17	95.5	F	624	LT	1.17	95.3	F	619		LT	1.17	95.8	F	641		LT	1.25	122.2	F	696	LT	1.25	122.7	F	690		LT	1.25	122.7	F	690	
		Intersection		134.1	F		Intersection		200.8	F			Intersection		200.8	F			Intersection		105.5	F		Intersection		115.8	F			Intersection		115.8	F			Intersection		111.0	F		Intersection		136.6	F			Intersection		136.6	F		
	Broadway/E 23rd St																																														
41	Eastbound	T	0.65	1.3	A	0	T	0.70	1.4	A	0		T	0.70	1.4	A	0		T	0.60	1.2	A	1	T	0.64	1.4	A	1		T	0.64	1.4	A	1		T	0.45	2.4	A	11	T	0.50	2.5	A	12		T	0.50	2.5	A	12	
		R	0.30	1.6	A	0	R	0.30	1.1	A	0		R	0.30	1.1	A	0		R	0.25	1.9	A	0	R	0.25	1.5	A	0		R	0.25	1.5	A	0		R	0.46	11.8	B	5	R	0.46	11.0	B	3		R	0.46	11.0	B	3	
	Westbound	T	1.37	218.5	F	415	T	1.53	284.4	F	436	+	T	1.53	284.4	F	436	U	T	1.66	343.4	F	570	T	1.78	396.6	F	581	+	T	1.78	396.6	F	581	U	T	1.51	272.3	F	576	T	1.60	314.0	F	587	+	T	1.60	314.0	F	587	U
	Southbound	L	0.69	38.7	D	154	L	0.72	40.7	D	169		L	0.72	40.7	D	169		L	0.64	35.4	D	169	L	0.70	38.7	D	201		L	0.70	38.7	D	201		L	0.72	42.2	D	178	L	0.73	43.3	D	183		L	0.73	43.3	D	183	
		T	0.42	19.0	B	160	T	0.42	19.0	B	160		T	0.42	19.0	B	160		T	0.44	18.5	B	168	T	0.44	18.5	B	168		T	0.44	18.5	B	168		T	0.34	17.6	B	132	T	0.34	17.6	B	132		T	0.34	17.6	B	132	
		Intersection		56.1	E		Intersection		69.1	E			Intersection		69.1	E			Intersection		99.4	F		Intersection		109.7	F			Intersection		109.7	F			Intersection		98.6	F		Intersection		108.5	F			Intersection		108.5	F		

Table MA-T3
2044 No Action vs With Action vs With Action with Mitigation Conditions Level of Service Analysis
Signalized Intersections

#	Intersection & Approach	Weekday AM Peak Hour																Weekday Midday Peak Hour												Weekday PM Peak Hour											
		2044 No Action					2044 With Action						2044 With Action with Mitigation						2044 No Action					2044 With Action						2044 With Action with Mitigation						2044 No Action					2044 With Action						2044 With Action with Mitigation					
		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	
	Fifth Ave/E 23rd St																																								
42	Eastbound	T	0.92	41.3	D	183	T	0.99	47.7	D	185	+	T	0.99	47.7	D	185	U	T	0.85	39.1	D	184	T	0.91	41.8	D	188		T	0.91	41.8	D	188		T	0.60	43.0	D	158	T	0.65	44.0	D	159		T	0.65	44.0	D	159	
		R	0.47	33.8	C	36	R	0.47	34.3	C	34		R	0.47	34.3	C	34		R	0.46	33.1	C	35	R	0.46	34.0	C	34		R	0.46	34.0	C	34		R	0.41	40.4	D	40	R	0.41	40.6	D	37		R	0.41	40.6	D	37	
	Westbound	T	0.46	0.2	A	0	T	0.47	0.2	A	0		T	0.47	0.2	A	0		T	0.60	1.8	A	8	T	0.60	1.8	A	7		T	0.60	1.8	A	7		T	0.62	0.9	A	2	T	0.61	0.9	A	2		T	0.61	0.9	A	2	
	Southbound	TR	0.77	24.7	C	276	TR	0.78	24.9	C	280		TR	0.78	24.9	C	280		TR	0.73	22.7	C	251	TR	0.73	22.8	C	252		TR	0.73	22.8	C	252		TR	0.74	23.6	C	265	TR	0.75	23.9	C	269		TR	0.75	23.9	C	269	
		Intersection		28.0	C		Intersection		30.6	C			Intersection		30.6	C			Intersection		25.0	C		Intersection		26.2	C			Intersection		26.2	C			Intersection		24.8	C		Intersection		25.6	C			Intersection		25.6	C		
	Fifth Ave/E 30th St																																								
43	Eastbound	TR	2.27	596.4	F	580	TR	2.89	873.3	F	604	+							TR	2.24	584.3	F	658	TR	2.39	647.2	F	640	+							TR	2.53	705.6	F	592	TR	3.16	991.4	F	606	+						
													T	2.26	588.2	F	713													T	1.96	456.2	F	598											T	2.52	701.7	F	687	
													R	0.36	15.2	B	17													R	0.47	21.2	C	23											R	0.66	18.8	B	28	
	Southbound	LT	0.93	4.6	A	35	LT	0.94	4.9	A	34		LT	1.01	18.2	B	60		LT	0.84	3.3	A	32	LT	0.84	3.3	A	32		LT	0.84	5.1	A	34		LT	0.96	5.9	A	38	LT	0.97	6.4	A	36		LT	0.99	10.9	B	46	
		Intersection		196.6	F		Intersection		331.7	F			Intersection		215.7	F			Intersection		205.3	F		Intersection		236.2	F			Intersection		150.4	F			Intersection		268.7	F		Intersection		430.5	F			Intersection		276.1	F		
	Fifth Ave/E 31st St																																								
44	Westbound	LT	2.22	589.7	F	875	LT	3.12	994.2	F	1276	+							LT	1.89	441.6	F	758	LT	2.19	576.1	F	901	+							LT	1.96	472.0	F	903	LT	2.35	644.3	F	1113	+						
													L	0.50	32.5	C	98													L	0.43	29.8	C	88											L	0.59	36.2	D	118	
													T	2.64	776.9	F	1125	U												T	1.78	390.5	F	756											T	1.87	431.3	F	924	
	Southbound																		TR	0.97	39.1	D	398	TR	0.98	40.4	D	402		TR	0.98	40.4	D	402																	
		T	1.03	53.1	D	430	T	1.05	60.8	E	443	+	T	1.05	60.8	E	443	U																		T	1.05	60.6	E	431	T	1.09	73.8	E	443	+	T	1.09	73.8	E	443	U
		R	1.43	269.3	F	139	R	1.53	309.9	F	147	+	R	1.53	309.9	F	147	U																		R	2.50	739.2	F	249	R	3.15	1032.8	F	274	+	R	3.15	1032.8	F	274	U
		Intersection		241.4	F		Intersection		454.8	F			Intersection		334.4	F			Intersection		167.5	F		Intersection		229.6	F			Intersection		147.6	F			Intersection		244.2	F		Intersection		351.6	F			Intersection		249.4	F		
	Fifth Ave/E 33rd St																																								
45	Westbound	LT	0.96	72.2	E	323	LT	1.11	113.9	F	396	+	LT	1.11	113.9	F	396	U	LT	1.01	85.4	F	287	LT	1.11	112.0	F	339	+	LT	1.11	112.0	F	339	U	LT	1.09	108.4	F	329	LT	1.15	127.5	F	359	+	LT	1.15	127.5	F	359	U
	Southbound	T	0.77	4.8	A	22	T	1.13	65.6	E	20	+	T	1.13	65.6	E	20	U	T	0.85	7.5	A	29	T	0.90	8.6	A	28		T	0.90	8.6	A	28		T	1.00	14.3	B	21	T	1.02	19.9	B	20		T	1.02	19.9	B	20	
		R	0.68	6.5	A	6	R	1.57	264.7	F	11	+	R	1.57	264.7	F	11	U	R	1.24	125.0	F	8	R	1.45	218.7	F	10	+	R	1.45	218.7	F	10	U	R	1.78	365.7	F	53	R	2.00	462.1	F	62	+	R	2.00	462.1	F	62	U
		Intersection		14.9	B		Intersection		100.2	F			Intersection		100.2	F			Intersection		30.0	C		Intersection		47.0	D			Intersection		47.0	D			Intersection		55.5	E		Intersection		72.9	E			Intersection		73.0	E		
	Fifth Ave/E 34th St																																								
46	Eastbound	T	1.43	228.4	F	252	T	1.71	353.6	F	216	+	T	1.71	355.5	F	349	U	T	1.60	303.4	F	160	T	1.65	325.1	F	164	+	T	1.65	326.4	F	193	U	T	1.56	287.5	F	210	T	1.74	369.6	F	191	+	T	1.74	371.1	F	279	U
		R	0.72	29.3	C	99	R	0.81	31.9	C	84		R	0.81	33.7	C	109		R	0.87	33.9	C	70	R	0.87	33.8	C	67		R	0.87	35.2	D	79		R	0.71	29.5	C	78	R	0.72	29.8	C	65		R	0.72	31.2	C	82	
	Westbound	T	0.89	38.6	D	529	T	0.96	49.5	D	594	+	T	0.96	49.5	D	594	U	T	1.18	119.9	F	772	T	1.20	130.0	F	793	+	T	1.20	130.0	F	793	U	T	0.98	54.3	D	589	T	1.02	66.0	E	629	+	T	1.02	66.0	E	629	U
	Southbound	L	0.14	10.8	B	5	L	0.14	10.8	B	4		L	0.14	10.8	B	4		L	0.13	10.7	B	7	L	0.13	10.7	B	6		L	0.13	10.7	B	6		L	0.06	10.9	B	2	L	0.06	10.8	B	2		L	0.06	10.8	B	2	
		T	2.22	564.6	F	101	T	2.46	670.7	F	105	+	T	2.46	670.7	F	105	U	T	1.82	383.6	F	114	T	1.86	401.7	F	110	+	T	1.86	401.7	F	110	U	T	2.11	512.5	F	109	T	2.12	519.6	F	100	+	T	2.12	519.6	F	100	U
		R	0.35	11.2	B	5	R	0.37	11.2	B	5		R	0.37	11.2	B	5		R	0.28	11.0	B	4	R	0.29	10.9	B	4		R	0.29	10.9	B	4		R	0.13	10.7	B	2	R	0.19	10.9	B	2		R	0.19	10.9	B	2	
		Intersection		328.3	F		Intersection		407.9	F			Intersection		408.4	F			Intersection		250.8	F		Intersection		265.7	F			Intersection		266.1	F			Intersection		324.5	F		Intersection		343.3	F			Intersection		343.7	F		
	Fifth Ave/E 35th St																																								
47	Westbound	L	1.07	129.5	F	201	L	1.36	237.6	F	263	+	L	1.36	237.6	F	263	U	L	1.15	156.2	F	222	L	1.20	171.5	F	231	+	L	1.20	171.5	F	231	U	L	0.81	71.0	E	149	L	0.83	72.7	E	152		L	0.83	72.7	E	152	
		T	1.70	354.0	F	600	T	2.45	691.1	F	609	+	T	2.45	691.1	F	609	U	T	1.47	256.1	F	442	T	1.60	313.7	F	473	+	T	1.60	313.7	F	473	U	T	1.10	100.9	F	440	T	1.20	135.1	F	487	+	T	1.20	135.1	F	487	U
	Southbound	T	3.81	1268.5	F	641	T	4.16	1430.9	F	694	+	T	4.16	1430.9	F	694	U	T	2.75	799.2	F	725	T	2.95	885.7	F	744	+	T	2.95	885.7	F	744	U	T	3.27	1028.7	F	793	T	3.73	1234.7	F	813	+	T	3.73	1234.7	F	813	U
		R	2.34	612.7	F	40	R	2.36	622.3	F	38	+	R	2.36	622.3	F	38	U	R	2.03	477.5	F	54	R	2.10	508.2	F	57	+	R	2.10	508.2	F	57	U	R	2.31	601.3	F	60	R	2.50	684.8	F	65	+	R	2.50	684.7	F	65	U
		Intersection		941.3	F		Intersection		1115.9	F			Intersection		1115.9	F			Intersection		612.9	F		Intersection		680.6	F			Intersection		680.6	F			Intersection		742.3	F		Intersection		880.4	F			Intersection		880.4	F		
	Fifth Ave/E 36th St																																								
48	Eastbound	TR	1.02	65.1	E	341	TR	1.31	176.6	F	423	+	TR	1.31	176.6	F	423	U	TR	1.34	193.0	F	424	TR	1.44	233.0	F	441	+	TR	1.44	233.0	F	441	U	TR	1.01	62.3	E	388	TR	1.21	134.7	F	475	+	TR	1.21	134.7	F	475	U
	Southbound	L	0.53	3.8	A	10	L	0.53	4.2	A	11		L	0.53	4.2	A	11		L	0.37	4.4	A	10	L	0.37	4.5	A	10		L	0.37	4.5	A	10		L	0.39	4.6	A	9	L	0.39	4.7	A	8		L	0.39	4.7	A	8	
		T	2.23	561.2	F	503	T	2.30	591.2	F	514	+	T	2.30	591.2	F	514	U	T	1.62	284.9	F	520	T	1.63	289.7	F	509	+	T	1.63	289.7	F	509	U	T	1.81	374.2	F	82	T	1.82	377.1	F	72		T	1.82	377.1	F	72	
		Intersection		359.0	F		Intersection		400.9	F			Intersection		401.0	F			Intersection		229.8	F		Intersection		248.7	F			Intersection		248.7	F			Intersection		242.8	F		Intersection		261.0	F			Intersection		261.0	F		
	Fifth Ave/E 37th St																																								
49	Westbound	LT	1.11	93.6	F	455	LT	1.40	215.1	F	620	+	LT	1.40	215.1	F	620	U	LT	0.93	44.5	D	343	LT	0.99	55.3	E	375	+	LT	0.99	55.3	E	375	U	LT	1.35	192.8	F	572	LT	1.47	247.3	F	652	+	LT	1.47	247.3	F	652	U
	Southbound	T	2.51	708.2	F	1831	T	2.52	712.4	F	1839	+	T	2.52	712.4	F	1839	U	T	1.79	383.9	F	1203	T	1.82	396.3	F	1210	+	T	1.82	396.3	F	1210	U	T	2.30	613.3	F	1480	T	2.46	684.6	F	1504	+	T	2.46	684.6	F	1504	U
		R	0.70	31.8	C	184	R	0.70	32.0	C	185		R	0.70	32.0	C	185		R	0.72	32.6	C	201	R	0.73	33.4	C	205		R	0.73	33.4	C	205		R	0.76	35.8	D	228	R	0.80	38.9	D	241		R	0.80	38.9	D	241	
		Intersection		452.3	F		Intersection		474.0	F			Intersection		474.0	F			Intersection		224.1	F		Intersection		230.7	F			Intersection		230.7	F			Intersection		388.0	F		Intersection		436.3	F			Intersection		436.3	F		
	Broadway/W 30th St																																								
50	Eastbound	T	1.28	135.8	F	71	T	1.65	303.4	F	57	+	T	1.23	124.9	F	47		T	1.14	74.1	E	77	T	1.26	129.6	F	67	+	T	1.13	75.7	E	67		T	1.56	262.4	F	370	T	1.99	457.7	F	100	+	T	1.52	253.7	F	92	
		R	0.33	8.5	A	5	R	0.35	7.4	A	3		R	0.24	4.7	A	2		R	0.43	9.5	A	9	R	0.49	9.2	A	8		R	0.42	8.0	A	8		R	0.40	9.7	A	7	R	0.54	9.2	A	6		R	0.37	5.7	A	5	
	Southbound	L	0.10	16.9	B	20	L	0.10	15.9	B	18		L	0.15	20.7	C	20		L	0.13	11.4	B	20	L	0.13	10.6	B	19		L	0.13	12.6	B	20		L	0.11	15.4	B	25	L	0.11	15.0	B	23		L	0.17	18.0	B	26	
		T	0.09	9.2	A	20	T	0.10	8.7	A	20		T	0.14	13.5	B	25		T	0.12	5.8	A	22	T	0.13	5.5	A	22		T	0.14	7.5	A	25		T	0.08	7.7	A	18	T	0.08	7.6	A	17		T	0.11	10.5	B	20	
		Intersection		112.6	F		Intersection		257.3	F			Intersection		107.3	F			Intersection		57.8	E		Intersection		99.3	F			Intersection		59.0	E			Intersection		222.4	F		Intersection		393.8	F			Intersection		219.0	F		
	Broadway/W 31st St																																								
51	Westbound	LT	2.12	552.2	F	207	LT	3.00	951.8	F	223	+	LT	1.89	446.1	F	235		LT	1.97	484.3	F	311	LT	2.27	619.2	F	322	+	LT	1.64	333.0	F	316		LT	1.91	455.6	F	205	LT	2.30	628.0	F	205	+	LT	1.72	364.5	F	249	
	Southbound	TR	0.11	23.1	C	66	TR	0.14	22.6	C	66		TR	0.23	23.7	C	67		TR	0.20	25.6	C	109	TR	0.24	24.8	C	121		TR	0.31	26.0	C	122		TR	0.13	25.6	C	86	TR	0.14	23.0	C	75		TR	0.19	23.6	C	76	
		Intersection		512.0	F		Intersection		891.1	F			Intersection		418.6	F			Intersection		422.2	F		Intersection		539.5	F			Intersection		291.8	F			Intersection		418.9	F		Intersection		581.8	F			Intersection		338.5	F		
	Broadway/W 32nd St																																								
52	Eastbound	TR	0.51	12.5	B	133	TR	0.65	12.6	B	144		TR	0.65	13.0	B	146		TR	0.53	14.8	B	145	TR	0.62	14.0	B	144		TR	0.62	14.0	B	144		TR	0.49	15.7	B	175	TR	0.62	13.1	B	168		TR	0.62	13.3	B	170	
		Intersection		12.5	B		Intersection		12.6	B			Intersection		13.0	B			Intersection		14.8	B		Intersection		14.0	B			Intersection		14.0	B			Intersection		15.7	B		Intersection		13.1	B			Intersection		13.3	B		
	Sixth Ave/W 23rd St																																								
53	Eastbound	T	1.35	184.6	F	530	T	1.47	233.9	F	530	+	T	1.47	233.9	F	530	U	T	1.10	71.6	E	240	T	1.20	116.0	F	244	+	T	1.20	116.0	F	244	U	T	1.13	92.1	F	469	T	1.22	127.5	F	470	+	T	1.22	127.5	F	470	U
	Westbound	T	0.86	57.8	E	333	T	0.87	59.4	E	343		T	0.87	59.4	E	343		T	0.96	67.5	E	402	T	0.96	67.1	E	400		T	0.96	67.1	E	400		T	0.92	66.0	E	442	T	0.92	65.3	E	439		T	0.92	65.3	E	439	
	Northbound	L	0.83	66.4	E	143	L	0.86	72.1	E	145	+	L	0.86	72.1	E	145	U	L	0.58	35.1	D	117	L	0.58	34.8	C	116		L	0.58	34.8	C	116		L	1.35	228.8	F	204	L	1.39	249.8	F	206	+	L	1.39	249.8	F	206	U
		T	0.88	25.9	C	297	T	0.91	28.6	C	335		T	0.91	28.6	C	335		T	0.82	23.1	C	266	T	0.83	23.6	C	272		T	0.83	23.6	C	272		T	0.89	26.1	C	335	T	0.90	27.2	C	347		T	0.90	27.2	C	347	
		R	1.40	236.7	F	321	R	1.43	247.4	F	323	+	R	1.43	247.4	F	323	U	R	1.61	328.2	F	370	R	1.60	323.9	F	369		R	1.60	323.9	F	369		R	0.43	28.4	C	54	R	0.44	29.2	C	55		R	0.44	29.2	C	55	
		Intersection		82.6	F		Intersection		97.4	F			Intersection		97.4	F			Intersection		66.8	E		Intersection		75.3	E			Intersection		75.3	E			Intersection		53.9	D		Intersection		62.8	E			Intersection		62.8	E		
	Sixth Ave/W 30th St																																								
54	Eastbound	LT	1.89	434.1	F	153	LT	2.80	842.0	F	115	+	LT	2.80	842.0	F	115	U	LT	1.69	340.6	F	338	LT	2.09	520.4	F	158	+	LT	2.09	520.4	F	158	U	LT	1.91	441.0	F	160	LT	2.77	827.4	F	184	+	LT	2.77	827.4	F	184	U
	Northbound	TR	0.84	23.5	C	315	TR	0.87	25.0	C	334		TR	0.87	25.0	C	334		TR	0.82	24.4	C	288	TR	0.83	24.8	C	295		TR	0.83	24.8	C	295		TR	0.83	22.9	C	307	TR	0.84	23.4	C	314		TR	0.84	23.4	C	314	
		Intersection		143.2	F		Intersection		320.4	F			Intersection		320.4	F			Intersection		118.4	F		Intersection		190.2	F			Intersection		190.2	F			Intersection		156.5	F		Intersection		341.7	F			Intersection		341.7	F		
	Sixth Ave/W 31st St																																								
55	Westbound	T	1.24	132.1	F	62	T	1.87	414.3	F	66	+	T	1.87	411.7	F	226	U	T	1.14	89.9	F	68	T	1.35	180.5	F	73	+	T	1.35	177.2	F	88	U	T	1.29	154.5	F	85	T	1.61	301.2	F	89	+	T	1.61	298.0	F	157	U
		R	0.59	20.6	C	13	R	0.92	30.5	C	12		R	0.92	27.0	C	20		R	0.55	21.4	C	17	R	0.66	22.4	C	18		R	0.66	18.2	B	18		R	0.61	23.5	C	16	R	0.72	25.0	C	15		R	0.72	21.1	C	15	
	Northbound	L	3.04	940.5	F	203	L	4.81	1727.0	F	329	+	L	4.81	1727.0	F	329	U	L	3.00	926.0	F	208	L	3.98	1362.0	F	282	+	L	3.98	1362.0	F	282	U	L	2.21	562.3	F	204	L	3.94	1337.3	F	285	+	L	3.94	1337.3	F	285	U
		T	0.94	10.0	B	36	T	0.99	12.6	B	106		T	0.99	12.6	B	106		T	0.90	9.2	A	34	T	0.93	10.2	B	61		T	0.93	10.2	B	61		T	0.79	4.4	A	28	T	0.83	5.7	A	41		T	0.83	5.7	A	41	
		Intersection		109.5	F		Intersection		298.7	F			Intersection		297.8	F			Intersection		101.7	F		Intersection		184.1	F			Intersection		183.0	F			Intersection		94.6	F		Intersection		222.5	F			Intersection		221.5	F		
	Sixth Ave/W 32nd St																																								
56	Eastbound	LT	0.87	57.2	E	248	LT	0.98	61.3	E	181	+	LT	0.94	54.4	D	179		LT	0.76	43.4	D	124	LT	0.88	43.9	D	131		LT	0.88	43.9	D	131		LT	0.59	39.7	D	146	LT	0.79	45.2	D	176	+	LT	0.77	43.3	D	176	
	Northbound	TR	0.89	8.9	A	79	TR	0.98	13.9	B	84		TR	1.00	19.4	B	98		TR	0.84	8.6	A	81	TR	0.89	9.9	A	85		TR	0.89	10.0	B	85		TR	0.75	6.0	A	63	TR	0.80	6.6	A	77		TR	0.82	7.7	A	84	
		Intersection		14.9	B		Intersection		21.2	C			Intersection		24.8	C			Intersection		13.1	B		Intersection		15.3	B			Intersection		15.4	B			Intersection		9.7	A		Intersection		12.7	B			Intersection		13.4	B		
	Sixth Ave/W 33rd St																																								
57	Westbound	TR	0.77	38.9	D	170	TR	1.36	195.2	F	205	+	TR	1.36	195.2	F	205	U	TR	0.68	28.6	C	111	TR	0.89	34.0	C	133		TR	0.89	33.9	C	133		TR	0.67	29.3	C	85	TR	0.76	31.2	C	92		TR	0.76	31.2	C	92	
	Northbound	T	0.69	1.8	A	15	T	0.74	1.9	A	20		T	0.74	1.9	A	19		T	0.66	2.0	A	17	T	0.70	2.5	A	23		T	0.70	2.5	A	23		T	0.54	1.4	A	10	T	0.58	1.6	A	14		T	0.58	1.6	A	14	
		Intersection		6.8	A		Intersection		41.9	D			Intersection		41.9	D			Intersection		5.6	A		Intersection		7.6	A			Intersection		7.6	A			Intersection		5.6	A		Intersection		6.3	A			Intersection		6.3	A		

Table MA-T3
2044 No Action vs With Action vs With Action with Mitigation Conditions Level of Service Analysis
Signalized Intersections

#	Intersection & Approach	Weekday AM Peak Hour																Weekday Midday Peak Hour																Weekday PM Peak Hour															
		2044 No Action					2044 With Action						2044 With Action with Mitigation						2044 No Action					2044 With Action						2044 With Action with Mitigation						2044 No Action					2044 With Action						2044 With Action with Mitigation				
		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	
58	**Sixth Ave/W 34th St**																																															
	Eastbound	T	1.44	235.7	F	766	T	1.95	463.3	F	961	+	T	1.43	229.8	F	869		T	2.48	704.9	F	783	T	2.58	747.9	F	820	+	T	2.13	542.9	F	741		T	1.63	322.7	F	837	T	2.02	494.5	F	954	+	T	1.56	287.0	F	884	
	Westbound	T	1.19	109.8	F	523	T	1.30	154.4	F	538	+	T	1.17	93.5	F	501		T	1.37	179.3	F	444	T	1.41	195.6	F	451	+	T	1.29	142.2	F	420		T	1.22	114.8	F	471	T	1.30	148.0	F	490	+	T	1.19	100.0	F	461	
	Northbound	R	1.14	139.1	F	95	R	1.14	132.5	F	86		R	0.84	46.7	D	59		R	0.55	22.4	C	25	R	0.55	22.6	C	25		R	0.43	19.2	B	22		R	0.73	39.5	D	34	R	0.73	37.3	D	33		R	0.73	37.3	D	33	
		T	0.71	2.0	A	8	T	0.76	2.2	A	8		T	0.83	5.4	A	22		T	0.67	3.0	A	19	T	0.71	3.3	A	20		T	0.76	3.9	A	21		T	0.58	2.3	A	15	T	0.62	2.4	A	15		T	0.66	3.3	A	21	
		Intersection		78.9	E		Intersection		144.4	F			Intersection		76.6	E			Intersection		204.5	F		Intersection		216.6	F			Intersection		158.2	F			Intersection		108.7	F		Intersection		161.2	F			Intersection		98.0	F		
59	**Sixth Ave/W 35th St**																																															
	Westbound																	TR	1.56	268.1	F	142	TR	1.62	298.1	F	127	+	TR	1.51	246.7	F	105																		
		T	1.76	359.3	F	76	T	2.03	481.4	F	50	+	T	1.90	420.9	F	40	U																		T	1.81	380.8	F	271	T	2.06	493.8	F	287	+	T	2.06	493.8	F	287	U
		R	1.27	138.7	F	36	R	1.38	185.3	F	22	+	R	1.28	139.4	F	17																		R	1.14	87.4	F	61	R	1.15	92.8	F	54	+	R	1.15	92.8	F	54	U
	Northbound	LT	0.83	8.5	A	70	LT	0.90	10.6	B	73		LT	0.94	12.5	B	383		LT	0.76	7.9	A	60	LT	0.81	8.4	A	62		LT	0.85	11.4	B	78		LT	0.66	5.5	A	52	LT	0.71	6.0	A	53		LT	0.71	5.0	A	40	
		Intersection		72.6	E		Intersection		101.2	F			Intersection		88.4	F			Intersection		69.7	E		Intersection		76.8	E			Intersection		66.9	E			Intersection		87.5	F		Intersection		114.0	F			Intersection		113.3	F		
60	**Sixth Ave/W 36th St**																																															
	Eastbound	L	0.62	46.1	D	131	L	0.62	46.1	D	131		L	0.62	46.1	D	131		L	1.00	97.2	F	283	L	1.00	97.2	F	283		L	1.00	97.2	F	283		L	1.06	111.7	F	306	L	1.06	111.7	F	306		L	1.06	111.7	F	306	
		T	0.50	18.2	B	171	T	0.61	20.2	C	218		T	0.61	20.2	C	218		T	0.55	19.0	B	188	T	0.57	19.3	B	198		T	0.57	19.3	B	198		T	0.56	19.1	B	179	T	0.62	20.3	C	204		T	0.62	20.3	C	204	
	Northbound	T	1.38	182.9	F	559	T	1.58	274.4	F	592	+	T	1.40	193.0	F	529	U	T	1.15	79.3	E	418	T	1.21	107.3	F	435	+	T	1.21	104.2	F	431	U	T	0.79	10.7	B	122	T	0.81	11.5	B	138		T	0.81	11.4	B	132	
		R	1.08	80.1	F	142	R	1.49	244.1	F	118	+	R	1.49	241.1	F	108	U	R	1.14	94.6	F	221	R	1.29	150.6	F	139	+	R	1.29	147.9	F	119	U	R	0.74	20.5	C	141	R	0.97	47.3	D	227	+	R	0.97	47.1	D	228	U
		Intersection		132.7	F		Intersection		197.8	F			Intersection		147.1	F			Intersection		67.3	E		Intersection		88.8	F			Intersection		86.8	F			Intersection		23.7	C		Intersection		26.6	C			Intersection		26.5	C		
61	**Sixth Ave/W 37th St**																																															
	Westbound	T	1.36	189.6	F	280	T	1.80	383.9	F	329	+	T	1.30	161.5	F	261		T	1.05	67.4	E	256	T	1.13	93.3	F	267	+	T	0.73	24.5	C	214		T	1.42	217.0	F	258	T	1.68	330.0	F	298	+	T	1.04	48.4	D	230	
		R	1.48	247.8	F	257	R	1.48	242.0	F	231		R	1.35	184.7	F	216		R	1.22	144.8	F	259	R	1.22	142.2	F	241		R	1.07	83.7	F	221		R	1.33	177.4	F	212	R	1.33	177.6	F	183		R	1.17	106.9	F	167	
	Northbound	LT	1.25	116.1	F	24	LT	1.26	123.2	F	21	+	LT	1.23	110.3	F	24		LT	1.06	34.1	C	47	LT	1.07	38.1	D	45		LT	1.07	38.1	D	45		LT	0.95	18.4	B	457	LT	0.97	20.0	B	471		LT	0.97	19.8	B	471	
		Intersection		149.7	F		Intersection		212.7	F			Intersection		133.6	F			Intersection		53.8	D		Intersection		62.6	E			Intersection		39.5	D			Intersection		91.6	F		Intersection		132.1	F			Intersection		38.2	D		
62	**Broadway/W 37th St**																																															
	Westbound	LT	0.69	37.6	D	160	LT	0.88	42.9	D	161		LT	0.88	44.7	D	222		LT	0.65	41.0	D	204	LT	0.69	41.8	D	205		LT	0.69	45.2	D	279		LT	0.79	40.5	D	187	LT	0.91	44.5	D	188		LT	0.91	44.6	D	290	
	Southbound	TR	0.07	18.2	B	25	TR	0.07	18.2	B	25		TR	0.07	18.2	B	25		TR	0.07	19.6	B	27	TR	0.07	19.6	B	27		TR	0.07	19.6	B	27		TR	0.06	18.1	B	26	TR	0.06	18.1	B	26		TR	0.06	18.1	B	26	
		Intersection		37.0	D		Intersection		42.3	D			Intersection		43.9	D			Intersection		40.1	D		Intersection		41.0	D			Intersection		44.3	D			Intersection		39.9	D		Intersection		43.8	D			Intersection		43.9	D		
63	**Seventh Ave/W 23rd St**																																															
	Eastbound	T	0.97	22.5	C	125	T	0.97	22.4	C	117		T	0.97	22.4	C	117		T	1.34	188.1	F	164	T	1.39	212.2	F	160	+	T	1.39	213.0	F	283	U	T	0.90	38.2	D	231	T	0.90	38.1	D	206		T	0.90	38.1	D	206	
		R	0.90	20.4	C	0	R	0.90	20.4	C	0		R	0.90	20.4	C	0		R	0.92	40.7	D	84	R	0.92	40.9	D	80		R	0.92	41.4	D	116		R	0.72	34.0	C	80	R	0.72	33.9	C	71		R	0.72	33.9	C	71	
	Westbound	T	1.07	82.2	F	385	T	1.08	87.2	F	382	+	T	1.08	87.2	F	382	U	T	1.24	149.9	F	442	T	1.24	148.9	F	443		T	1.24	148.9	F	443		T	1.25	144.3	F	402	T	1.24	142.3	F	398		T	1.24	142.3	F	398	
	Southbound	L	1.00	96.2	F	255	L	1.28	192.4	F	344	+	L	1.28	192.4	F	344	U	L	0.93	77.8	E	264	L	1.11	128.1	F	328	U	L	1.11	128.1	F	328	U	L	0.91	72.8	E	223	L	1.13	134.4	F	299	+	L	1.13	134.4	F	299	U
		T	1.06	62.5	E	472	T	1.20	118.8	F	536	+	T	1.20	118.8	F	536	U	TR	1.10	79.3	E	457	TR	1.23	132.6	F	506	+	TR	1.23	132.6	F	506	U	T	0.96	35.7	D	426	T	1.06	63.6	E	486	+	T	1.06	63.6	E	486	U
		R	0.75	37.9	D	193	R	1.36	221.1	F	216	+	R	1.36	221.1	F	216	U																		R	1.44	248.1	F	292	R	2.90	903.6	F	342	+	R	2.90	903.6	F	342	U
		Intersection		58.4	E		Intersection		109.0	F			Intersection		109.0	F			Intersection		103.5	F		Intersection		139.0	F			Intersection		139.1	F			Intersection		73.9	E		Intersection		148.8	F			Intersection		148.8	F		
64	**Seventh Ave/W 26th St**																																															
	Eastbound	T	1.21	138.7	F	133	T	1.24	153.9	F	128	+	T	1.20	135.4	F	133		T	1.56	278.9	F	154	T	1.27	147.2	F	147		T	1.27	148.1	F	153		T	1.08	68.0	E	136	T	1.28	154.4	F	165	+	T	1.13	86.9	F	166	U
		R	0.96	54.8	D	75	R	0.97	54.8	D	71		R	0.93	48.8	D	74		R	0.88	27.0	C	70	R	0.93	31.0	C	72		R	0.93	31.9	C	74		R	0.78	24.6	C	74	R	1.02	51.0	D	95	+	R	0.86	26.7	C	98	
	Southbound	L	2.17	571.3	F	367	L	3.87	1345.1	F	441	+	L	0.71	38.7	D	256		L	1.87	435.1	F	330	L	1.81	409.2	F	324		L	0.67	36.9	D	238		L	2.33	655.4	F	265	L	2.33	655.4	F	265		L	0.42	29.6	C	148	
		T	1.39	201.8	F	612	T	1.53	265.5	F	695	+	T	1.38	198.4	F	664		T	1.23	135.8	F	485	T	1.32	171.6	F	530	+	T	1.04	56.2	E	402		T	1.04	57.4	E	402	T	1.17	105.9	F	479	+	T	0.92	32.7	C	400	
		Intersection		229.6	F		Intersection		360.2	F			Intersection		165.7	F			Intersection		186.7	F		Intersection		187.8	F			Intersection		64.5	E			Intersection		114.0	F		Intersection		154.2	F			Intersection		38.8	D		
65	**Seventh Ave/W 29th St**																																															
	Westbound	L	0.72	40.0	D	191	L	0.72	40.0	D	191		L	0.72	40.0	D	191		L	0.67	38.3	D	175	L	0.67	38.3	D	175		L	0.67	38.3	D	175		L	0.67	37.2	D	150	L	0.67	37.2	D	150		L	0.67	37.2	D	150	
		T	1.45	256.1	F	363	T	1.55	297.7	F	390	+	T	1.55	297.7	F	390	U	T	1.06	107.3	F	292	T	1.09	114.3	F	299	+	T	1.09	114.3	F	299	U	T	1.63	329.2	F	510	T	1.73	373.4	F	543	+	T	1.73	373.4	F	543	U
	Southbound	TR	1.15	74.7	E	41	TR	1.30	143.5	F	42	+	TR	1.30	143.5	F	42	U	TR	0.88	9.7	A	62	TR	0.95	12.8	B	100		TR	0.95	12.8	B	100																		
																																			T	0.90	6.6	A	47	T	1.08	42.7	D	44		T	1.08	42.7	D	44	
																																			R	2.31	602.8	F	96	R	2.70	778.1	F	102	+	R	2.70	778.1	F	102	U
		Intersection		97.1	F		Intersection		156.1	F			Intersection		156.1	F			Intersection		25.2	C		Intersection		27.9	C			Intersection		27.9	C			Intersection		107.2	F		Intersection		152.2	F			Intersection		152.2	F		
66	**Seventh Ave/W 30th St**																																															
	Eastbound	T	1.29	154.9	F	123	T	2.48	690.9	F	235	+	T	2.48	690.9	F	235	U	T	0.75	25.2	C	108	T	1.56	279.3	F	200	+	T	1.56	279.3	F	200	U	T	1.47	241.1	F	191	T	2.03	492.5	F	237	+	T	2.03	492.4	F	237	U
		R	0.92	29.4	C	54	R	1.21	120.6	F	37	+	R	1.21	120.6	F	37	U	R	0.74	26.2	C	54	R	0.95	36.2	D	52		R	0.95	36.2	D	52		R	0.96	36.1	D	54	R	1.13	91.0	F	50	+	R	1.13	91.0	F	50	U
	Southbound	L	7.37	2874.1	F	459	L	10.82	4428.5	F	540	+	L	10.82	4428.5	F	540	U	L	3.74	1251.5	F	458	L	6.29	2392.6	F	518	+	L	6.29	2399.6	F	540	U	L	7.09	2749.0	F	459	L	10.18	4141.9	F	525	+	L	10.18	4141.8	F	525	U
		T	1.28	133.6	F	320	T	1.44	203.9	F	26	+	T	1.44	203.9	F	26	U	T	0.96	18.3	B	101	T	1.01	18.2	B	68		T	1.01	26.2	C	126		T	1.09	47.4	D	62	T	1.23	109.3	F	52	+	T	1.23	109.3	F	52	U
		Intersection		659.3	F		Intersection		1232.9	F			Intersection		1232.9	F			Intersection		297.5	F		Intersection		600.0	F			Intersection		605.6	F			Intersection		603.9	F		Intersection		1070.6	F			Intersection		1070.5	F		
67	**Seventh Ave/W 31st St**																																															
	Westbound	L	0.35	17.4	B	45	L	0.69	23.1	C	37		L	0.69	23.1	C	37		L	0.43	17.9	B	63	L	0.84	26.6	C	64		L	0.88	30.1	C	65		L	0.55	20.2	C	83	L	1.05	57.8	E	92	+	L	1.05	57.8	E	92	U
		T	1.29	159.1	F	258	T	1.88	423.4	F	249	+	T	1.88	423.4	F	249	U	T	1.84	406.6	F	348	T	1.42	215.3	F	273		T	1.50	251.5	F	278		T	2.63	763.5	F	478	T	1.75	367.4	F	385		T	1.75	367.4	F	385	
	Southbound	T	1.17	84.6	F	513	T	1.54	252.2	F	450	+	T	1.54	252.3	F	352	U	T	0.97	12.4	B	34	T	1.09	50.3	D	30	+	T	1.04	22.8	C	19		T	1.16	83.2	F	485	T	1.43	200.5	F	361	+	T	1.43	200.5	F	361	U
		R	0.87	38.5	D	108	R	1.03	47.3	D	90	+	R	1.03	47.3	D	75	U	R	1.04	59.2	E	124	R	1.20	114.4	F	124	+	R	1.09	62.1	E	107		R	1.06	78.9	E	220	R	1.33	172.3	F	164	+	R	1.33	172.3	F	164	U
		Intersection		95.6	F		Intersection		276.6	F			Intersection		276.7	F			Intersection		120.1	F		Intersection		102.1	F			Intersection		92.6	F			Intersection		255.7	F		Intersection		233.7	F			Intersection		233.8	F		
68	**Seventh Ave/W 32nd St**																																															
	Southbound	L	0.74	5.0	A	23	L	0.97	12.4	B	25		L	0.97	15.5	B	78		L	0.96	36.9	D	87	L	1.23	121.7	F	147	+	L	1.23	121.5	F	140	U	L	0.62	6.9	A	23	L	0.88	9.6	A	64		L	0.88	9.6	A	64	
		T	0.91	5.9	A	77	T	1.30	139.3	F	441	+	T	1.53	247.5	F	540	U	T	1.04	36.6	D	417	T	1.21	108.9	F	465	+	T	1.21	107.6	F	481	U	T	0.83	7.1	A	82	T	1.31	149.6	F	512	+	T	1.31	149.6	F	512	U
		Intersection		5.8	A		Intersection		119.5	F			Intersection		211.3	F			Intersection		36.7	D		Intersection		111.4	F			Intersection		110.3	F			Intersection		7.1	A		Intersection		129.2	F			Intersection		129.2	F		
69	**Seventh Ave/W 33rd St**																																															
	Westbound	L	1.55	284.9	F	264	L	1.22	117.1	F	139		L	1.54	262.5	F	157		L	1.35	200.3	F	239	L	1.48	244.5	F	212	+	L	1.37	194.6	F	193		L	1.42	233.4	F	303	L	1.89	438.7	F	474	+	L	1.89	438.6	F	474	U
	Southbound	T	0.93	3.7	A	1	T	1.13	61.7	E	1	+	T	1.04	25.1	C	1		T	0.78	3.2	A	11	T	0.85	3.9	A	10		T	0.88	4.5	A	10		T	0.81	3.3	A	9	T	0.93	5.0	A	7		T	0.93	5.0	A	7	
		Intersection		38.9	D		Intersection		68.3	E			Intersection		53.4	D			Intersection		27.3	C		Intersection		37.8	D			Intersection		31.2	C			Intersection		33.8	C		Intersection		81.9	F			Intersection		81.9	F		
70	**Seventh Ave/W 34th St**																																															
	Eastbound	TR	1.27	144.9	F	364	TR	1.48	240.4	F	402	+	TR	1.48	240.4	F	402	U	TR	1.39	193.5	F	129	TR	1.44	216.5	F	108	+	TR	1.36	181.4	F	86		TR	1.41	203.6	F	498	TR	1.53	259.0	F	521	+	TR	1.53	259.0	F	521	U
	Westbound	T	1.16	117.0	F	632	T	1.52	271.2	F	773	+	T	1.52	271.2	F	773	U	T	1.26	156.8	F	787	T	1.31	177.2	F	825	+	T	1.24	147.0	F	805		T	1.59	307.0	F	691	T	1.74	369.4	F	760	+	T	1.74	369.4	F	760	U
	Southbound	T	1.00	16.8	B	106	T	1.23	113.9	F	126	+	T	1.23	113.9	F	126	U	T	0.81	9.7	A	103	T	0.88	11.6	B	116		T	0.92	13.8	B	115		T	0.84	9.5	A	93	T	0.97	12.4	B	102		T	0.97	12.4	B	102	
		Intersection		64.8	E		Intersection		170.3	F			Intersection		170.3	F			Intersection		93.1	F		Intersection		102.4	F			Intersection		87.5	F			Intersection		119.0	F		Intersection		143.0	F			Intersection		143.0	F		
71	**Seventh Ave/W 35th St**																																															
	Westbound	L	0.75	44.3	D	218	L	1.10	115.4	F	362	+	L	1.10	115.4	F	362	U	L	0.64	36.8	D	175	L	0.84	52.2	D	266	+	L	0.77	42.9	D	250		L	0.62	36.9	D	155	L	0.79	49.5	D	230	+	L	0.79	49.5	D	230	U
		T	0.70	36.4	D	223	T	0.72	37.5	D	231		T	0.72	37.5	D	231		T	0.50	29.1	C	178	T	0.52	29.7	C	187		T	0.49	27.3	C	181		T	0.76	38.2	D	322	T	0.79	40.4	D	345		T	0.79	40.4	D	345	
	Southbound	TR	1.06	31.4	C	30	TR	1.23	106.9	F	30	+	TR	1.23	106.9	F	30	U	TR	0.91	5.5	A	44	TR	0.95	7.2	A	49		TR	1.00	14.1	B	88		TR	1.04	22.7	C	34	TR	1.14	67.4	E	31	+	TR	1.14	67.4	E	31	U
		Intersection		33.2	C		Intersection		99.9	F			Intersection		99.9	F			Intersection		11.4	B		Intersection		15.2	B			Intersection		19.1	B			Intersection		26.3	C		Intersection		61.8	E			Intersection		61.8	E		
72	**Seventh Ave/W 36th St**																																															
	Eastbound	TR	0.99	46.1	D	245	TR	1.21	120.4	F	248	+	TR	1.21	120.4	F	248	U	TR	1.14	88.3	F	203	TR	1.23	129.0	F	225	+	TR	1.23	129.0	F	225	U	TR	1.08	61.6	E	220	TR	1.18	106.6	F	218	+	TR	1.18	106.6	F	218	U
	Southbound	L	0.81	9.5	A	54	L	0.92	15.0	B	70		L	0.92	15.0	B	70		L	0.87	25.1	C	207	L	0.90	26.6	C	203		L	0.90	26.6	C	151		L	0.85	18.1	B	82	L	0.87	12.6	B	80		L	0.87	12.6	B	80	
		T	1.12	66.6	E	401	T	1.45	214.4	F	456	+	T	1.45	214.4	F	456	U	T	1.01	32.0	C	352	T	1.07	49.6	D	368	+	T	1.06	49.6	D	383	U	T	1.10	58.8	E	418	T	1.27	133.3	F	462	+	T	1.27	133.3	F	462	U
		Intersection		55.6	E		Intersection		170.1	F			Intersection		170.1	F			Intersection		49.8	D		Intersection		73.5	E			Intersection		73.5	E			Intersection		55.3	E		Intersection		113.7	F			Intersection		113.7	F		
73	**Seventh Ave/W 37th St**																																															
	Westbound	LT	1.51dl	172.7	F	396	LT	2.18dl	346.5	F	529	+	LT	2.18dl	345.4	F	529	U	LT	1.17	100.3	F	360	LT	1.28dl	130.7	F	377	+	LT	1.19dl	93.0	F	362		LT	1.26	139.5	F	427	LT	1.71dl	244.3	F	465	+	LT	1.71dl	245.0	F	465	U
	Southbound	TR	0.93	30.9	C	427	TR	1.01	45.1	D	491	+	TR	1.01	45.1	D	491	U	TR	0.79	22.3	C	287	TR	0.81	23.0	C	299		TR	0.85	26.1	C	315		TR	0.87	26.0	C	358	TR	0.91	29.3	C	431		TR	0.91	29.3	C	431	
		Intersection		78.1	E		Intersection		156.0	F			Intersection		155.6	F			Intersection		49.6	D		Intersection		61.5	E			Intersection		50.0	D			Intersection		65.2	E		Intersection		108.2	F			Intersection		108.5	F		

Table MA-T3
2044 No Action vs With Action vs With Action with Mitigation Conditions Level of Service Analysis
Signalized Intersections

#	Intersection & Approach	Weekday AM Peak Hour															Weekday Midday Peak Hour															Weekday PM Peak Hour														
		2044 No Action					2044 With Action						2044 With Action with Mitigation						2044 No Action					2044 With Action						2044 With Action with Mitigation						2044 No Action					2044 With Action						2044 With Action with Mitigation					
		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	
Seventh Ave/W 42nd St																																														
74	Eastbound	T	1.06	58.7	E	257	T	1.06	61.2	E	257		T	1.06	61.2	E	257		T	1.82	393.6	F	590	T	1.88	417.9	F	592	+	T	1.88	417.9	F	592	U	T	0.89	27.8	C	335	T	0.89	28.1	C	336		T	0.89	28.1	C	336	
	Westbound	LT	0.83	42.0	D	376	LT	0.83	42.0	D	376		LT	0.83	42.0	D	376		LT	1.37	212.8	F	502	LT	1.37	212.8	F	502		LT	1.37	212.8	F	502		LT	0.80	39.5	D	317	LT	0.80	40.0	D	320		LT	0.80	40.0	D	320	
	Southbound	L	0.31	12.4	B	101	L	0.31	12.4	B	101		L	0.31	12.4	B	101		L	0.30	12.2	B	108	L	0.30	12.2	B	108		L	0.30	12.2	B	108		L	0.27	11.8	B	91	L	0.27	11.8	B	91		L	0.27	11.8	B	91	
		T	1.00	43.3	D	617	T	1.05	59.3	E	672	+	T	1.05	59.3	E	672	U	T	0.87	24.7	C	434	T	0.87	25.1	C	445		T	0.87	25.1	C	445		T	0.92	29.4	C	534	T	0.96	35.5	D	575		T	0.96	35.5	D	575	
		R	1.41	283.0	F	100	R	1.41	283.0	F	100		R	1.41	283.0	F	100		R	1.87	474.0	F	136	R	1.87	474.0	F	136		R	1.87	474.0	F	136		R	2.00	527.6	F	163	R	2.00	527.6	F	163		R	2.00	527.6	F	163	
		Intersection		50.7	D		Intersection		60.1	E			Intersection		60.1	E			Intersection		165.9	F		Intersection		173.8	F			Intersection		173.8	F			Intersection		51.1	D		Intersection		54.0	D			Intersection		54.0	D		
Eighth Ave/W 23rd St																																														
75	Eastbound	T	1.12	110.0	F	499	T	1.12	111.0	F	499		T	1.12	111.0	F	499		T	1.54	291.9	F	506	T	1.65	340.3	F	528	+	T	1.02	79.7	E	434		T	1.07	92.1	F	426	T	1.21	143.7	F	456	+	T	1.21	143.7	F	456	U
	Westbound																		TR	1.50	245.1	F	345	TR	1.52	256.6	F	342	+																					
		T	1.58	300.5	F	352	T	1.79	390.7	F	333	+	T	1.79	390.7	F	333	U												T	1.08	61.0	E	79		T	2.09	515.7	F	362	T	2.27	596.6	F	325	+	T	2.27	596.6	F	325	U
		R	0.98	59.9	E	170	R	1.01	52.1	D	132		R	1.01	52.1	D	132													R	0.99	35.3	D	62		R	1.27	149.6	F	169	R	1.26	145.2	F	97		R	1.26	145.2	F	97	
	Northbound	L	0.83	69.4	E	199	L	0.83	69.4	E	199		L	0.83	69.4	E	199		L	1.17	161.0	F	229	L	1.17	161.0	F	229		L	1.17	161.0	F	229		L	0.76	63.8	E	139	L	0.76	63.8	E	139		L	0.76	63.8	E	139	
		TR	1.21	126.4	F	524	TR	1.33	179.1	F	601	+	TR	1.33	179.1	F	601	U	TR	1.37	197.0	F	511	TR	1.42	216.7	F	534	+	TR	1.42	216.7	F	534	U	TR	1.23	132.3	F	553	TR	1.30	165.3	F	602	+	TR	1.30	165.3	F	602	U
		Intersection		138.5	F		Intersection		183.1	F			Intersection		183.1	F			Intersection		218.4	F		Intersection		239.2	F			Intersection		158.0	F			Intersection		188.6	F		Intersection		230.0	F			Intersection		230.0	F		
Eighth Ave/W 26th St																																														
76	Eastbound	LT	1.41	222.5	F	419	LT	1.50	260.0	F	380	+	LT	1.39	210.4	F	362		LT	1.58	291.5	F	416	LT	1.63	312.2	F	430	+	LT	1.51	255.6	F	413		LT	1.19	105.8	F	101	LT	1.36	187.4	F	307	+	LT	1.18	105.6	F	271	
	Northbound	TR	0.84	22.8	C	296	TR	0.95	31.2	C	402		TR	0.99	40.7	D	419		TR	0.74	20.8	C	226	TR	0.77	21.6	C	239		TR	0.81	24.1	C	251		TR	0.79	20.9	C	276	TR	0.84	22.7	C	304		TR	0.92	30.4	C	336	
		Intersection		66.3	E		Intersection		79.5	E			Intersection		76.5	E			Intersection		92.1	F		Intersection		97.5	F			Intersection		84.6	F			Intersection		37.5	D		Intersection		56.7	E			Intersection		45.9	D		
Eighth Ave/W 29th St																																														
77	Westbound	TR	1.28	156.4	F	213	TR	1.32	173.6	F	194	+							TR	0.95	44.5	D	226	TR	0.99	49.5	D	227	+							TR	1.46	237.4	F	180	TR	1.65	325.1	F	207	+						
													T	0.75	25.5	C	107												T	0.50	23.0	C	119												T	0.87	32.6	C	115	
													R	0.70	25.5	C	59												R	0.51	23.8	C	72												R	0.93	37.4	D	75	
	Northbound	L	1.30	196.4	F	272	L	1.45	262.0	F	284	+	L	1.21	160.0	F	266		L	1.25	171.1	F	323	L	1.26	175.2	F	324	+	L	1.17	139.4	F	315		L	1.26	183.9	F	292	L	1.47	271.9	F	314	+	L	1.22	164.2	F	296	
		T	0.77	22.1	C	232	T	0.86	26.0	C	279		T	0.79	20.2	C	250		T	0.69	19.8	B	196	T	0.72	20.5	C	209		T	0.68	18.5	B	198		T	0.76	21.5	C	234	T	0.82	23.8	C	265		T	0.75	18.9	B	238	
		Intersection		71.7	E		Intersection		81.7	F			Intersection		35.1	D			Intersection		45.7	D		Intersection		47.1	D			Intersection		35.8	D			Intersection		90.9	F		Intersection		125.5	F			Intersection		36.2	D		
Eighth Ave/W 30th St																																														
78	Eastbound	L	2.22	576.2	F	608	L	3.24	1032.9	F	578	+	L	3.24	1032.9	F	578	U	L	1.96	470.1	F	627	L	2.32	626.1	F	584	+	L	2.32	626.2	F	584	U	L	2.21	575.2	F	622	L	2.91	889.2	F	661	+	L	2.91	889.2	F	661	U
		T	1.64	314.9	F	387	T	2.53	714.3	F	436	+	T	2.53	714.3	F	436	U	T	1.41	217.6	F	363	T	1.87	416.9	F	453	+	T	1.87	416.9	F	452	U	T	1.72	352.3	F	415	T	2.01	480.7	F	400	+	T	2.01	480.7	F	400	U
	Northbound	TR	0.83	9.7	A	48	TR	0.93	12.5	B	153		TR	0.93	17.4	B	345		TR	0.72	8.1	A	42	TR	0.76	8.3	A	43		TR	0.76	10.3	B	49		TR	0.84	10.6	B	63	TR	0.91	12.0	B	125		TR	0.91	16.1	B	194	
		Intersection		199.1	F		Intersection		429.8	F			Intersection		432.4	F			Intersection		159.4	F		Intersection		241.6	F			Intersection		242.7	F			Intersection		209.7	F		Intersection		331.0	F			Intersection		333.3	F		
Eighth Ave/W 31st St																																														
79	Westbound	T	0.54	23.0	C	88	T	0.81	27.7	C	98		T	0.81	27.7	C	98		T	0.38	17.4	B	40	T	0.59	19.2	B	75		T	0.59	20.3	C	78		T	0.63	19.9	B	56	T	0.88	23.8	C	102		T	0.88	23.8	C	102	
		R	1.45	236.0	F	212	R	2.13	543.5	F	200	+	R	2.13	543.5	F	200	U	R	1.53	268.4	F	123	R	1.64	317.5	F	216	+	R	1.64	318.5	F	211	U	R	1.94	451.0	F	97	R	2.25	593.4	F	208	+	R	2.25	593.4	F	208	U
	Northbound	L	0.84	29.1	C	92	L	0.91	33.5	C	85		L	0.91	33.5	C	85		L	0.70	27.1	C	100	L	0.74	27.5	C	97		L	0.74	27.5	C	96		L	1.30	164.5	F	218	L	1.36	190.9	F	191	+	L	1.36	190.9	F	190	U
		T	1.23	117.7	F	436	T	1.47	226.5	F	493	+	T	1.47	226.5	F	493	U	T	1.00	22.1	C	264	T	1.05	38.9	D	259		T	1.05	38.9	D	259		T	1.17	93.3	F	416	T	1.35	173.2	F	475	+	T	1.35	173.2	F	475	U
		Intersection		116.2	F		Intersection		230.9	F			Intersection		230.9	F			Intersection		62.1	E		Intersection		79.2	E			Intersection		79.5	E			Intersection		137.5	F		Intersection		204.5	F			Intersection		204.5	F		
Eighth Ave/W 33rd St																																														
80	Westbound	TR	0.25	20.3	C	59	TR	0.35	22.5	C	79		TR	0.35	22.5	C	79		TR	0.20	20.2	C	51	TR	0.30	21.7	C	73		TR	0.30	21.7	C	73		TR	0.37	21.8	C	119	TR	0.44	23.3	C	140		TR	0.44	23.3	C	140	
	Northbound	L	1.70	333.0	F	286	L	2.36	633.1	F	342	+	L	2.36	633.1	F	342	U	L	1.98	466.3	F	429	L	2.06	501.3	F	420	+	L	2.06	501.3	F	420	U	L	2.02	480.7	F	379	L	2.57	726.1	F	439	+	L	2.57	726.1	F	439	U
		TR	1.57	265.1	F	391	TR	1.78	359.3	F	334	+	TR	1.78	359.2	F	334	U	TR	1.32	155.8	F	371	TR	1.36	176.1	F	358	+	TR	1.36	176.1	F	358	U	TR	1.36	170.8	F	314	TR	1.49	230.8	F	192	+	TR	1.49	230.8	F	193	U
		Intersection		269.8	F		Intersection		408.4	F			Intersection		408.3	F			Intersection		227.7	F		Intersection		248.0	F			Intersection		248.0	F			Intersection		233.1	F		Intersection		345.2	F			Intersection		345.2	F		
Eighth Ave/W 34th St																																														
81	Eastbound	T	1.21	135.8	F	316	T	1.29	174.6	F	316	+	T	1.29	174.6	F	316	U	T	2.60	736.7	F	392	T	3.03	932.4	F	473	+	T	3.03	933.2	F	497	U	T	1.16	85.2	F	95	T	1.20	106.7	F	96	+	T	1.20	107.0	F	97	U
	Westbound	T	1.27	143.1	F	271	T	1.56	274.9	F	228	+	T	1.56	274.9	F	228	U	T	2.15	541.7	F	367	T	2.26	590.5	F	376	+	T	2.26	591.6	F	409	U	T	0.84	21.6	C	191	T	0.93	25.1	C	198		T	0.93	25.1	C	198	
		R	0.60	16.0	B	86	R	0.65	16.6	B	60		R	0.65	16.6	B	60		R	0.85	24.3	C	111	R	0.89	26.5	C	113		R	0.89	27.6	C	119		R	0.48	15.6	B	43	R	0.53	16.5	B	45		R	0.53	16.5	B	45	
	Northbound	L	0.63	15.3	B	37	L	0.71	16.5	B	37		L	0.71	16.5	B	37		L	0.59	14.7	B	43	L	0.63	15.1	B	44		L	0.63	15.1	B	44		L	0.65	14.4	B	46	L	0.72	15.3	B	47		L	0.72	15.3	B	47	
		TR	1.46	210.0	F	5	TR	1.74	335.9	F	8	+	TR	1.74	335.9	F	8	U	TR	1.37	168.8	F	388	TR	1.43	196.6	F	394	+	TR	1.43	196.6	F	394	U	TR	1.47	215.9	F	441	TR	1.66	300.8	F	463	+	TR	1.66	300.8	F	463	U
		Intersection		164.1	F		Intersection		261.4	F			Intersection		261.4	F			Intersection		349.3	F		Intersection		414.0	F			Intersection		414.5	F			Intersection		140.1	F		Intersection		192.5	F			Intersection		192.5	F		
Eighth Ave/W 36th St																																														
82	Eastbound	L	0.83	57.4	E	119	L	0.84	55.4	E	102		L	0.84	55.4	E	102		L	0.96	69.6	E	212	L	0.96	68.3	E	200		L	0.96	68.3	E	200		L	1.08	96.6	F	205	L	1.08	95.3	F	200		L	1.08	95.3	F	200	
		T	0.87	47.4	D	286	T	1.05	80.4	F	336	+	T	1.05	80.4	F	336	U	T	0.96	47.5	D	417	T	1.03	63.3	E	461	+	T	1.03	63.3	E	461	U	T	0.86	34.2	C	277	T	0.90	37.5	D	288		T	0.90	37.5	D	288	
	Northbound	T	2.03	489.5	F	873	T	2.33	626.1	F	966	+	T	2.33	626.1	F	966	U	T	2.12	531.8	F	831	T	2.18	558.4	F	857	+	T	2.18	558.4	F	857	U	T	2.04	494.4	F	800	T	2.19	560.0	F	866	+	T	2.19	560.0	F	866	U
		R	1.01	81.1	F	253	R	1.25	162.9	F	329	+	R	1.25	162.9	F	329	U	R	1.44	244.0	F	398	R	1.51	273.0	F	419	+	R	1.51	273.0	F	419	U	R	1.39	217.1	F	407	R	1.61	311.1	F	332	+	R	1.61	311.1	F	332	U
		Intersection		340.1	F		Intersection		434.3	F			Intersection		434.3	F			Intersection		363.0	F		Intersection		383.4	F			Intersection		383.4	F			Intersection		338.5	F		Intersection		393.8	F			Intersection		393.8	F		
Eighth Ave/W 37th St																																														
83	Westbound	T	0.55	35.2	D	122	T	0.63	37.1	D	113		T	0.63	37.1	D	113		T	0.66	38.3	D	178	T	0.68	38.7	D	173		T	0.68	39.6	D	181		T	0.87	42.4	D	237	T	0.89	43.1	D	210		T	0.89	43.1	D	210	
		R	0.98	60.5	E	100	R	0.98	61.0	E	79		R	0.98	61.0	E	79		R	1.26	169.2	F	160	R	1.26	169.2	F	147		R	1.26	170.2	F	155		R	0.99	62.0	E	125	R	0.99	62.0	E	108		R	0.99	62.0	E	108	
	Northbound	L	0.81	19.1	B	57	L	0.81	18.9	B	50		L	0.81	18.9	B	50		L	0.54	16.9	B	36	L	0.54	16.8	B	35		L	0.54	16.8	B	35		L	0.69	21.0	C	43	L	0.69	20.7	C	39		L	0.69	20.7	C	39	
		T	1.24	116.5	F	38	T	1.35	162.9	F	36	+	T	1.35	162.9	F	36	U	T	1.21	102.5	F	32	T	1.25	117.6	F	31	+	T	1.25	117.6	F	31	U	T	1.17	83.7	F	45	T	1.25	119.9	F	43	+	T	1.25	119.9	F	43	U
		Intersection		90.7	F		Intersection		123.1	F			Intersection		123.1	F			Intersection		93.5	F		Intersection		103.8	F			Intersection		104.0	F			Intersection		68.5	E		Intersection		92.5	F			Intersection		92.5	F		
Eighth Ave/W 42nd St																																														
84	Eastbound	L	1.16	107.4	F	139	L	1.16	107.4	F	139		L	1.16	107.4	F	139		L	1.25	159.7	F	153	L	1.25	159.7	F	153		L	1.25	159.7	F	153		L	0.97	70.3	E	197	L	0.97	70.3	E	197		L	0.97	70.3	E	197	
		T	0.43	15.1	B	75	T	0.43	15.1	B	75		T	0.43	15.1	B	75		T	0.85	25.1	C	222	T	0.85	25.1	C	222		T	0.85	25.1	C	222		T	0.48	19.1	B	257	T	0.48	19.1	B	257		T	0.48	19.1	B	257	
	Westbound	T	1.24	146.0	F	469	T	1.25	147.0	F	470		T	1.25	147.0	F	470		T	1.41	208.6	F	200	T	1.41	209.9	F	200		T	1.41	209.9	F	200		T	1.14	91.2	F	381	T	1.15	95.2	F	382	+	T	1.15	95.2	F	382	U
		R	0.17	19.2	B	10	R	0.17	19.2	B	10		R	0.17	19.2	B	10		R	0.23	17.6	B	7	R	0.23	17.6	B	7		R	0.23	17.6	B	7		R	0.06	17.1	B	4	R	0.06	16.7	B	4		R	0.06	16.7	B	4	
	Northbound	T	1.30	169.7	F	452	T	1.36	196.7	F	479	+	T	1.36	196.7	F	479	U	T	1.28	159.2	F	437	T	1.31	174.4	F	447	+	T	1.31	174.4	F	447	U	T	1.17	114.0	F	413	T	1.22	134.4	F	436	+	T	1.22	134.4	F	436	U
		R	6.27	2464.4	F	314	R	6.39	2518.8	F	319	+	R	6.39	2518.8	F	319	U	R	5.48	2115.9	F	300	R	6.10	2390.5	F	329	+	R	6.10	2390.5	F	329	U	R	3.41	1186.8	F	179	R	3.50	1228.4	F	183	+	R	3.50	1228.4	F	183	U
		Intersection		291.0	F		Intersection		309.6	F			Intersection		309.6	F			Intersection		242.4	F		Intersection		275.9	F			Intersection		275.9	F			Intersection		130.9	F		Intersection		145.4	F			Intersection		145.4	F		
Ninth Ave/W 26th St																																														
85	Eastbound	T	1.21	157.5	F	353	T	1.34	210.7	F	396	+	T	1.34	210.7	F	396	U	T	1.33	205.9	F	383	T	1.34	213.1	F	388	+	T	1.34	213.1	F	388	U	T	1.26	173.3	F	384	T	1.26	173.3	F	384		T	1.26	173.3	F	384	
		R	0.84	58.0	E	196	R	0.84	58.0	E	196		R	0.84	58.0	E	196		R	0.79	53.6	D	185	R	0.79	53.6	D	185		R	0.79	53.6	D	185		R	0.50	32.0	C	106	R	0.50	32.0	C	106		R	0.50	32.0	C	106	
	Southbound	L	0.75	50.1	D	181	L	0.98	84.8	F	266	+	L	0.98	84.8	F	266	U	L	0.61	40.6	D	166	L	0.64	42.0	D	176		L	0.64	42.0	D	176		L	0.24	31.4	C	65	L	0.26	31.6	C	68		L	0.26	31.6	C	68	
		T	0.97	38.3	D	426	T	1.06	63.0	E	457	+	T	1.06	63.0	E	457	U	T	1.00	44.0	D	458	T	1.03	51.8	D	474	+	T	1.03	51.8	D	474	U	T	0.39	14.4	B	131	T	0.40	14.5	B	132		T	0.40	14.5	B	132	
		Intersection		56.4	E		Intersection		85.1	F			Intersection		85.1	F			Intersection		64.9	E		Intersection		71.5	E			Intersection		71.5	E			Intersection		52.3	D		Intersection		52.0	D			Intersection		52.0	D		
Ninth Ave/W 29th St																																														
86	Westbound	L	0.44	19.6	B	33	L	0.45	19.7	B	31		L	0.47	19.6	B	54		L	0.51	27.3	C	66	L	0.51	27.2	C	64		L	0.53	33.3	C	88		L	0.44	24.3	C	53	L	0.44	24.3	C	47		L	0.44	26.0	C	73	
		T	0.80	23.5	C	136	T	0.83	24.1	C	130		T	0.85	25.7	C	203		T	0.74	30.0	C	165	T	0.77	30.3	C	169		T	0.79	39.3	D	204		T	0.98	38.5	D	198	T	1.15	101.7	F	210	+	T	1.15	110.3	F	424	U
	Southbound	TR	1.12	74.1	E	526	TR	1.16	90.1	F	556	+	TR	1.13	77.8	E	552		TR	1.12	74.2	E	505	TR	1.14	80.1	F	521	+	TR	1.11	68.0	E	519		TR	0.96	21.4	C	417	TR	0.96	22.3	C	422		TR	0.96	22.3	C	422	
		Intersection		62.3	E		Intersection		74.9	E			Intersection		65.6	E			Intersection		63.9	E		Intersection		68.4	E			Intersection		61.0	E			Intersection		25.3	C		Intersection		42.1	D			Intersection		44.3	D		
Ninth Ave/W 30th St																																														
87	Eastbound	T	1.05	79.3	E	353	T	1.60	310.1	F	612	+	T	1.60	310.1	F	612	U	T	0.84	43.0	D	260	T	0.96	58.5	E	317	+	T	0.96	58.5	E	317	U	T	1.01	68.2	E	330	T	1.28	168.2	F	458	+	T	1.28	168.2	F	458	U
		R	0.69	34.5	C	172	R	0.76	37.6	D	196		R	0.76	37.6	D	196		R	0.73	36.8	D	181	R	0.74	37.5	D	186		R	0.74	37.5	D	186		R	0.73	40.9	D	121	R	0.75	42.0	D	122		R	0.75	42.0	D	122	
	Southbound	L	0.87	4.0	A	11	L	1.03	25.6	C	19		L	1.03	25.6	C	19		L	1.05	33.8	C	17	L	1.21	103.6	F	41	+	L	1.21	103.5	F	44	U	L	1.13	68.2	E	283	L	1.24	114.3	F	359	+	L	1.24	114.2	F	360	U
		T	0.68	1.0	A	11	T	0.70	1.6	A	16		T	0.70	1.6	A	16		T	0.63	2.0	A	17	T	0.89	5.6	A	23		T	0.89	5.6	A	23		T	0.78	2.2	A	23	T	0.78	2.6	A	27		T	0.78	2.6	A	27	
		R	0.13	0.8	A	1	R	0.14	1.2	A	1		R	0.14	1.2	A	1		R	0.17	1.8	A	2	R	0.18	2.3	A	3		R	0.18	2.3	A	3		R	0.18	1.6	A	3	R	0.22	1.9	A	4		R	0.22	1.9	A	4	
		Intersection		25.4	C		Intersection		108.7	F			Intersection		108.8	F			Intersection		20.6	C		Intersection		37.3	D			Intersection		37.3	D			Intersection		35.3	D		Intersection		77.1	E			Intersection		77.1	E		

Table MA-T3
2044 No Action vs With Action vs With Action with Mitigation Conditions Level of Service Analysis
Signalized Intersections

#	Intersection & Approach	Weekday AM Peak Hour																Weekday Midday Peak Hour																Weekday PM Peak Hour															
		2044 No Action					2044 With Action						2044 With Action with Mitigation						2044 No Action					2044 With Action					2044 With Action with Mitigation						2044 No Action					2044 With Action					2044 With Action with Mitigation				
		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)
Ninth Ave/W 31st St																																																
88	Westbound	LT	1.09	96.2	F	465							LT	0.90	43.2	D	358						L	0.64	25.4	C	129		L	0.64	25.4	C	127							L	0.88	32.0	C	113		L	0.88	32.1	C	113
							L	0.63	36.3	D	77		L	0.63	36.3	D	77																															
							T	1.09	93.6	F	434		T	1.09	93.6	F	434						T	0.85	32.1	C	322		T	0.85	32.1	C	321							T	1.46	228.5	F	607		T	1.46	228.5	F	607
	Southbound	TR	1.14	74.0	E	514	TR	1.19	94.0	F	526	+	TR	1.19	94.0	F	526	U	TR	1.22	109.2	F	495	TR	1.24	119.2	F	504	+	TR	1.24	115.4	F	455	U	TR	1.04	37.9	D	444	TR	1.06	42.7	D	448		TR	1.06	41.8	D	448
		Intersection		78.8	E		Intersection		90.6	F			Intersection		90.6	F			Intersection		95.7	F		Intersection		97.2	F			Intersection		94.3	F			Intersection		92.0	F			Intersection		91.5	F						
Ninth Ave/W 33rd St																																																
89	Westbound	LT	1.33	205.5	F	269	LT	1.81	418.1	F	307	+	LT	1.81	418.1	F	308	U	LT	1.53	256.3	F	252	LT	1.66	313.9	F	294	+	LT	1.48	234.3	F	270		LT	1.70	334.0	F	375	LT	2.09	509.1	F	425	+	LT	2.09	509.1	F	425	U
	Southbound	TR	0.89	11.8	B	110	TR	0.93	12.7	B	113		TR	0.93	12.7	B	113		TR	0.90	14.9	B	183	TR	0.91	15.3	B	182		TR	0.98	22.7	C	354		TR	0.80	10.7	B	127	TR	0.81	10.6	B	127		TR	0.81	11.0	B	133	
		Intersection		58.8	E		Intersection		134.3	F			Intersection		134.3	F			Intersection		78.2	E		Intersection		97.5	F			Intersection		81.0	F			Intersection		111.2	F			Intersection		189.1	F						
Ninth Ave/W 34th St																																																
90	Eastbound	T	1.42	228.9	F	547	T	1.54	279.6	F	603	+	T	1.54	280.3	F	619	U	T	1.79	388.2	F	650	T	1.56	286.3	F	637		T	1.48	249.2	F	625		T	1.61	310.2	F	591	T	1.68	336.5	F	545	+	T	1.59	297.8	F	607	
		R	1.21	145.8	F	300	R	1.24	156.8	F	285	+	R	1.24	158.1	F	293	U	R	1.34	200.2	F	355	R	1.34	202.3	F	356		R	1.26	166.9	F	348		R	1.62	313.5	F	397	R	1.65	326.7	F	352	+	R	1.52	271.4	F	388	
	Westbound	T	1.07	49.4	D	252	T	1.18	93.3	F	199	+	T	1.18	93.3	F	199	U	T	1.21	137.1	F	214	T	1.27	163.8	F	217	+	T	1.20	132.5	F	217		T	1.88	441.1	F	798	T	2.32	636.0	F	893	+	T	1.94	467.8	F	852	U
	Southbound	L	0.86	78.2	E	192	L	0.90	84.6	F	201	+	L	0.90	84.6	F	201	U	L	1.12	137.8	F	257	L	1.12	137.8	F	257		L	1.12	137.8	F	257		L	0.66	55.9	E	109	L	0.68	57.4	E	114		L	0.68	57.4	E	114	
		TR	0.77	20.9	C	268	TR	0.80	21.9	C	287		TR	0.80	21.9	C	287		TR	0.71	19.4	B	239	TR	0.72	19.6	B	243		TR	0.75	21.6	C	255		TR	0.76	20.5	C	261	TR	0.76	20.7	C	265		TR	0.80	23.0	C	279	
		Intersection		72.2	E		Intersection		91.2	F			Intersection		91.4	F			Intersection		125.1	F		Intersection		115.4	F			Intersection		100.9	F			Intersection		189.6	F			Intersection		244.9	F						
Ninth Ave/W 36th St																																																
91	Eastbound	TR	0.87	40.6	D	277	TR	0.98	56.1	E	336	+	TR	0.98	56.1	E	336	U	TR	0.78	34.3	C	217	TR	0.82	36.3	D	231		TR	0.82	36.3	D	231		TR	0.97	53.9	D	365	TR	0.99	58.0	E	377		TR	0.99	58.0	E	377	
	Southbound	L	0.43	15.2	B	101	L	0.43	15.2	B	101		L	0.43	15.2	B	101		L	0.66	21.9	C	168	L	0.67	22.4	C	172		L	0.67	22.4	C	172		L	0.36	13.9	B	81	L	0.37	14.0	B	82		L	0.37	14.0	B	82	
		T	0.98	39.0	D	417	T	1.03	51.5	D	449	+	T	1.03	51.5	D	449	U	T	0.98	39.5	D	390	T	1.00	43.2	D	399		T	1.00	43.2	D	399		T	0.66	16.2	B	192	T	0.68	16.5	B	199		T	0.68	16.5	B	199	
		R	0.12	5.6	A	29	R	0.12	5.6	A	30		R	0.12	5.6	A	30		R	0.50	8.6	A	157	R	0.50	8.6	A	159		R	0.50	8.6	A	159		R	0.90	20.7	C	576	R	0.90	21.3	C	583		R	0.90	21.3	C	583	
		Intersection		35.4	D		Intersection		47.3	D			Intersection		47.3	D			Intersection		28.9	C		Intersection		31.1	C			Intersection		31.1	C			Intersection		26.7	C			Intersection		28.1	C						
Ninth Ave/W 42nd St																																																
92	Eastbound	T	0.96	66.2	E	411	T	0.96	66.2	E	411		T	0.96	66.2	E	411		T	1.85	426.3	F	821	T	1.85	426.3	F	821		T	1.85	426.3	F	821		T	0.93	59.4	E	385	T	0.93	59.4	E	385		T	0.93	59.4	E	385	
		R	1.51	291.3	F	301	R	1.88	452.0	F	379	+	R	1.88	452.0	F	379	U	R	1.21	169.3	F	232	R	1.34	222.4	F	261	+	R	1.34	222.4	F	261	U	R	1.69	365.8	F	374	R	1.82	424.7	F	405	+	R	1.82	424.7	F	405	U
	Westbound	L	1.54	262.6	F	151	L	1.54	262.6	F	150		L	1.54	262.6	F	150		L	1.76	398.9	F	171	L	1.76	399.1	F	170		L	1.76	399.1	F	170		L	2.17	585.2	F	350	L	2.17	584.9	F	346		L	2.17	584.9	F	346	
		T	0.17	0.1	A	0	T	0.18	0.1	A	0		T	0.18	0.1	A	0		T	0.31	25.1	C	94	T	0.31	25.1	C	94		T	0.31	25.1	C	94		T	0.31	24.4	C	126	T	0.32	24.5	C	127		T	0.32	24.5	C	127	
	Southbound	L	1.87	453.7	F	416	L	1.87	453.7	F	416		L	1.87	453.7	F	416		L	1.21	175.7	F	243	L	1.21	175.7	F	243		L	1.21	175.7	F	243		L	1.25	189.7	F	301	L	1.25	189.7	F	301		L	1.25	189.7	F	301	
		T	1.09	73.6	E	415	T	1.11	83.6	F	431	+	T	1.11	83.6	F	431	U	T	0.98	41.7	D	363	T	0.99	44.0	D	370		T	0.99	44.0	D	370		T	0.99	41.7	D	411	T	1.00	44.2	D	418		T	1.00	44.2	D	418	
		R	1.05	121.6	F	181	R	1.05	121.6	F	181		R	1.05	121.6	F	181		R	0.52	25.5	C	90	R	0.52	25.5	C	90		R	0.52	25.5	C	90		R	1.66	364.6	F	191	R	1.66	364.6	F	191		R	1.66	364.6	F	191	
		Intersection		138.4	F		Intersection		160.5	F			Intersection		160.5	F			Intersection		164.8	F		Intersection		168.6	F			Intersection		168.6	F			Intersection		147.2	F			Intersection		154.1	F						
Dyer Ave/W 30th St																																																
93	Eastbound	L	0.10	5.0	A	14	L	0.11	4.9	A	14		L	0.11	5.0	A	14		L	0.30	4.5	A	29	L	0.30	4.5	A	29		L	0.30	4.5	A	29		L	0.43	10.7	B	96	L	0.45	11.0	B	100		L	0.45	11.1	B	101	
	Westbound	R	0.08	2.6	A	6	R	0.09	2.9	A	7		R	0.09	2.9	A	7		R	0.13	36.4	D	66	R	0.13	37.2	D	69		R	0.13	37.4	D	69		R	0.18	12.3	B	49	R	0.22	13.1	B	59		R	0.22	13.1	B	59	
	Southbound	T	0.52	17.6	B	160	T	0.71	20.8	C	224		T	0.71	20.8	C	224		T	0.32	14.5	B	97	T	0.39	15.1	B	117		T	0.39	15.1	B	117		T	0.19	30.9	C	85	T	0.23	31.6	C	98		T	0.23	39.1	D	108	
		Intersection		13.9	B		Intersection		17.0	B			Intersection		17.0	B			Intersection		10.0	A		Intersection		10.6	B			Intersection		10.6	B			Intersection		14.8	B			Intersection		15.6	B						
Dyer Ave/W 31st St																																																
94	Westbound	LT	0.75	10.9	B	38	LT	0.76	10.5	B	35		LT	0.76	10.4	B	34		LT	0.52	32.2	C	133	LT	0.72	40.0	D	153		LT	0.53	34.0	C	149		LT	0.87	37.6	D	105	LT	1.73	365.3	F	193	+	LT	0.53	23.6	C	105	
		R	0.48	9.1	A	17	R	0.70	10.0	A	28		R	0.70	9.9	A	27		R	0.47	31.7	C	94	R	0.68	38.3	D	153		R	0.68	38.2	D	153		R	0.86	37.7	D	82	R	1.28	166.7	F	125	+	R	0.71	26.3	C	119	
	Northbound	LT	0.13	21.4	C	80	LT	0.14	21.2	C	81		LT	0.14	21.2	C	81		LT	0.34	23.7	C	206	LT	0.34	23.7	C	208		LT	0.34	23.7	C	208		LT	0.52	4.3	A	21	LT	0.56	5.2	A	25		LT	0.84	26.9	C	233	
	Southbound	TR	0.32	9.4	A	102	TR	0.42	10.4	B	141		TR	0.42	10.4	B	141		TR	0.20	8.4	A	58	TR	0.24	8.7	A	70		TR	0.24	8.7	A	70		TR	0.14	8.0	A	41	TR	0.16	8.1	A	47		TR	0.24	18.4	B	75	
		Intersection		11.8	B		Intersection		12.0	B			Intersection		11.9	B			Intersection		22.0	C		Intersection		24.1	C			Intersection		23.2	C			Intersection		17.6	B			Intersection		24.9	C						
Dyer Ave/W 34th St																																																
95	Eastbound	T	0.71	24.7	C	316	T	0.76	26.4	C	340		T	0.76	26.4	C	340		T	0.65	16.0	B	164	T	0.66	16.4	B	174		T	0.66	16.4	B	174		T	1.04	50.9	D	473	T	1.23	131.1	F	526	+	T	1.04	50.4	D	471	
	Westbound	T	0.82	34.5	C	290	T	0.89	37.7	D	290		T	0.89	37.7	D	290		T	0.80	7.4	A	47	T	0.83	8.0	A	46		T	0.83	8.7	A	48		T	0.95	15.4	B	73	T	1.05	37.2	D	62		T	0.99	18.7	B	70	
		R	0.17	3.4	A	16	R	0.19	3.5	A	16		R	0.19	3.5	A	16		R	0.36	16.4	B	84	R	0.37	16.6	B	83		R	0.37	15.6	B	82		R	0.18	13.6	B	30	R	0.21	14.3	B	32		R	0.21	12.3	B	29	
	Southbound	LR	1.00	85.3	F	192	LR	1.02	90.3	F	197	+	LR	0.95	72.2	E	189		LR	0.66	43.0	D	116	LR	0.67	43.3	D	118		LR	0.67	43.3	D	118		LR	0.69	43.9	D	126	LR	0.70	44.4	D	128		LR	0.70	44.4	D	128	
		R	1.34	236.7	F	231	R	1.38	253.3	F	240	+	R	1.28	208.1	F	232		R	1.03	129.0	F	184	R	1.03	129.0	F	184		R	1.03	129.0	F	184		R	1.31	230.7	F	203	R	1.31	230.7	F	203		R	1.31	230.7	F	203	
		Intersection		59.3	E		Intersection		62.4	E			Intersection		54.5	D			Intersection		25.2	C		Intersection		25.2	C			Intersection		25.3	C			Intersection		46.2	D			Intersection		79.6	E						
Tenth Ave/W 30th St																																																
96	Eastbound	L	1.45	252.5	F	109	L	1.45	254.6	F	85		L	1.28	176.4	F	113		L	2.04	516.5	F	161	L	2.04	518.8	F	155		L	1.79	407.2	F	199		L	1.85	428.8	F	136	L	1.88	443.4	F	122	+	L	1.65	340.5	F	175	
		T	2.93	915.4	F	320	T	4.14	1460.8	F	371	+	T	2.18	579.8	F	410		T	3.40	1127.6	F	321	T	3.52	1184.9	F	327	+	T	2.65	792.9	F	384		T	3.43	1140.2	F	347	T	4.22	1495.2	F	387	+	T	3.21	1040.7	F	532	
	Northbound	TR	0.67	18.7	B	212	TR	0.68	18.9	B	216		TR	0.68	18.9	B	216		TR	1.04dr	35.7	D	386	TR	1.07dr	38.3	D	393		TR	1.07dr	38.3	D	393		TR	1.36dr	30.7	C	329	TR	1.42dr	33.3	C	360		TR	1.42dr	33.3	C	360	
		Intersection		250.4	F		Intersection		466.4	F			Intersection		199.7	F			Intersection		309.3	F		Intersection		327.4	F			Intersection		235.3	F			Intersection		305.7	F			Intersection		429.0	F						
Tenth Ave/W 33rd St																																																
97	Westbound	TR	0.95	49.7	D	219	TR	1.16	123.2	F	214	+	TR	1.16	123.2	F	214	U	TR	1.83	397.8	F	342	TR	1.89	424.3	F	332	+	TR	1.89	425.3	F	350	U	TR	1.15	90.9	F	212	TR	1.36	179.3	F	214	+	TR	1.36	179.4	F	214	U
	Northbound	LT	0.81	23.4	C	285	LT	0.82	23.6	C	289		LT	0.82	23.6	C	289		LT	1.04	55.9	E	506	LT	1.05	57.4	E	509		LT	1.05	57.4	E	509		LT	0.92	29.1	C	380	LT	0.93	29.9	C	393		LT	0.93	29.9	C	393	
		Intersection		30.4	C		Intersection		54.8	D			Intersection		54.8	D			Intersection		152.9	F		Intersection		163.7	F			Intersection		163.9	F			Intersection		46.1	D			Intersection		76.5	E						
Tenth Ave/W 34th St																																																
98	Eastbound	L	2.28	662.0	F	173	L	3.18	1077.2	F	191	+	L	3.18	1077.2	F	191	U	L	2.00	526.1	F	178	L	2.33	678.1	F	189	+	L	2.33	678.1	F	189	U	L	2.52	755.4	F	218	L	3.74	1319.1	F	243	+	L	3.74	1319.1	F	243	U
		T	0.75	36.4	D	250	T	0.82	41.5	D	300		T	0.82	41.5	D	300		T	0.61	30.1	C	229	T	0.63	30.9	C	239		T	0.63	30.9	C	239		T	0.81	40.4	D	336	T	0.86	45.0	D	367		T	0.86	45.0	D	367	
	Westbound	T	1.31	181.0	F	474	T	1.43	232.1	F	490	+	T	1.21	136.5	F	458		T	1.34	197.3	F	497	T	1.42	230.6	F	511	+	T	1.07	83.3	F	439		T	1.39	213.0	F	393	T	1.59	297.0	F	425	+	T	1.59	296.2	F	460	U
		R	0.83	41.7	D	199	R	0.84	38.4	D	186		R	0.84	39.9	D	190		R	0.83	43.1	D	200	R	0.83	41.8	D	193		R	0.83	42.0	D	193		R	1.28	163.9	F	342	R	1.29	162.2	F	302		R	1.29	161.4	F	329	
	Northbound	LTR	0.89	9.4	A	49	LTR	0.90	9.7	A	51		LTR	0.90	9.7	A	51																			LTR	1.11	60.2	E	475	LTR	1.13	66.5	E	467	+	LTR	1.13	66.5	E	467	U
																			LT	1.22	108.2	F	357	LT	1.27	129.5	F	367	+	LT	1.27	128.9	F	366	U																
																			R	1.84	385.6	F	217	R	1.84	385.6	F	214		R	1.84	385.6	F	214																
		Intersection		64.7	E		Intersection		88.7	F			Intersection		73.3	E			Intersection		147.2	F		Intersection		169.8	F			Intersection		149.5	F			Intersection		112.8	F			Intersection		148.9	F						
Eleventh Ave/W 30th St																																																
99	Eastbound	T	2.37	653.8	F	663	T	3.27	1057.9	F	992	+	T	2.02	493.3	F	1027		T	2.93	904.4	F	847	T	3.02	945.6	F	880	+	T	2.04	504.7	F	942		T	3.03	948.8	F	872	T	3.51	1162.5	F	1060	+	T	2.00	481.4	F	1070	
		R	0.70	37.3	D	146	R	0.70	37.8	D	151		R	0.70	37.6	D	149		R	0.72	41.4	D	151	R	0.72	41.4	D	151		R	0.71	40.7	D	150		R	0.72	36.9	D	162	R	0.71	36.4	D	159		R	0.71	36.1	D	157	
	Southbound	LT	0.97	39.7	D	373	LT	0.98	41.5	D	378		LT	0.98	41.5	D	378		LT	0.91	34.4	C	273	LT	0.92	34.8	C	274		LT	0.92	34.8	C	274		LT	0.86	30.8	C	249	LT	0.87	30.9	C	250		LT	0.87	30.9	C	250	
		Intersection		203.6	F		Intersection		377.9	F			Intersection		190.9	F			Intersection		330.9	F		Intersection		351.0	F			Intersection		198.1	F			Intersection		351.9	F			Intersection		470.5	F						
Eleventh Ave/W 34th St																																																
100	Eastbound	L	1.09	121.0	F	171	L	1.20	162.1	F	189	+	L	1.20	162.1	F	189	U	L	1.90	451.7	F	333	L	1.89	446.5	F	332		L	1.89	446.5	F	332		L	1.84	421.7	F	401	L	1.84	421.7	F	401		L	1.70	359.0	F	391	
		T	0.84	49.0	D	314	T	1.02	86.0	F	380	+	T	1.02	86.0	F	380	U	T	1.60	319.6	F	417	T	1.64	340.3	F	431	+	T	1.64	340.3	F	431	U	T	1.26	168.3	F	508	T	1.32	190.8	F	536	+	T	1.18	132.0	F	507	
		R	1.80	420.5	F	288	R	1.80	420.5	F	288		R	1.80	420.5	F	288		R	0.93	85.8	F	173	R	0.93	85.8	F	173		R	0.93	85.8	F	173		R	1.75	399.2	F	308	R	1.75	399.2	F	308		R	1.50	286.4	F	294	
	Westbound	L	1.10	110.9	F	263	L	1.19	145.9	F	241	+	L	1.19	145.9	F	241	U	L	0.96	74.3	E	164	L	1.00	84.6	F	174	+	L	1.00	84.6	F	174	U	L	1.25	172.4	F	248	L	1.26	175.7	F	252	+	L	1.18	139.3	F	242	
		TR	1.27	172.7	F	467	TR	1.39	222.9	F	524	+	TR	1.39	222.9	F	524	U	TR	1.24	161.4	F	469	TR	1.32	194.1	F	510	+	TR	1.32	194.1	F	510	U	TR	1.58	306.3	F	603	TR	1.80	402.5	F	702	+	TR	1.61	314.6	F	675	U
	Southbound	LTR	1.13	94.0	F	520	LTR	1.13	94.0	F	520		LTR	1.13	94.0	F	520		LTR	0.98	43.9	D	375	LTR	0.98	44.1	D	376		LTR	0.98	44.1	D	376		LTR	0.59	20.5	C	156	LTR	0.59	20.5	C	156		LTR	0.66	24.5	C	171	
		Intersection		125.8	F		Intersection		142.5	F			Intersection		142.5	F			Intersection		138.8	F		Intersection		148.1	F			Intersection		148.1	F			Intersection		202.1	F			Intersection		230.9	F						
Route 9A/W 29th St																																																
101	Westbound	L	0.30	56.2	E	106	L	0.30	56.2	E	106		L	0.29	55.0	E	105		L	0.24	43.3	D	72	L	0.24	43.3	D	72		L	0.22	42.2	D	71		L	0.57	67.7	E	155	L	0.58	68.3	E	157		L	0.58	68.3	E	157	
		R	0.99	116.8	F	344	R	1.03	128.0	F	366	+	R	0.99	116.3	F	357		R	1.43	267.3	F	467	R	1.48	287.5	F	485	+	R	1.41	254.9	F	475		R	1.77	425.6	F	654	R	2.10	570.6	F	792	+	R	2.10	570.6	F	792	U
	Northbound	T	0.77	16.7	B	536	T	0.77	16.7	B	536		T	0.78	17.4	B	549		T	0.74	17.2	B	420	T	0.74	17.2	B	421		T	0.75	18.0	B	432		T	0.90	22.3	C	824	T	0.90	22.5	C	830		T	0.90	22.5	C	830	
	Southbound	T	0.86	0.6	A	0	T	0.87	0.8	A	0		T	0.88	0.8	A	0		T	0.83	7.4	A	107	T	0.83	7.4	A	107		T	0.84	8.7	A	124		T	0.93	2.0	A	8	T	0.93	2.0	A	8		T	0.93	2.0	A	8	
		Intersection		13.5	B		Intersection		14.1	B			Intersection		14.0	B			Intersection		28.1	C		Intersection		29.9	C			Intersection		28.8	C			Intersection		34.5	C			Intersection		46.7	D						

Table MA-T3
2044 No Action vs With Action vs With Action with Mitigation Conditions Level of Service Analysis
Signalized Intersections

#	Intersection & Approach	Weekday AM Peak Hour																Weekday Midday Peak Hour																Weekday PM Peak Hour															
		2044 No Action					2044 With Action						2044 With Action with Mitigation						2044 No Action					2044 With Action						2044 With Action with Mitigation						2044 No Action					2044 With Action						2044 With Action with Mitigation					
		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	
Route 9A/W 30th St																																																	
102	Eastbound	LTR	0.01	61.7	E	6	LTR	0.01	61.7	E	6		LTR	0.01	61.7	E	6		LTR	0.04	47.5	D	16	LTR	0.04	47.5	D	16		LTR	0.04	48.5	D	16		LTR	0.13	63.9	E	45	LTR	0.13	63.9	E	45		LTR	0.13	63.9	E	45	
	Northbound	TR	1.17	93.6	F	1113	TR	1.18	96.5	F	1115		TR	1.18	95.9	F	1121		TR	1.21	113.7	F	833	TR	1.22	116.6	F	835		TR	1.20	108.4	F	841		TR	1.37	177.8	F	1440	TR	1.39	188.6	F	1439	+	TR	1.39	188.6	F	1439	U
	Southbound	L	2.66	822.2	F	1051	L	3.93	1390.3	F	1538	+	L	3.93	1390.3	F	1538	U	L	2.50	747.2	F	953	L	2.61	794.0	F	988	+	L	2.61	794.7	F	988	U	L	2.64	794.3	F	829	L	3.24	1064.1	F	990	+	L	3.24	1064.1	F	990	U
		TR	1.25	130.6	F	1298	TR	1.27	134.6	F	1303	+	TR	1.27	134.6	F	1303	U	TR	1.17	102.7	F	942	TR	1.18	104.8	F	940		TR	1.16	98.6	F	932		TR	1.35	182.5	F	1048	TR	1.35	184.2	F	928		TR	1.35	184.2	F	928	
		Intersection		173.3	F		Intersection		271.8	F			Intersection		271.6	F			Intersection		171.6	F		Intersection		180.8	F			Intersection		174.4	F			Intersection		230.1	F		Intersection		272.4	F			Intersection		272.4	F		
Route 9A/W 34th St																																																	
104	Westbound	LR	1.32	225.1	F	321	LR	1.46	285.1	F	358	+	LR	1.46	285.1	F	358	U	LR	1.04	100.5	F	250	LR	1.12	125.8	F	270	+	LR	1.12	125.8	F	270	U	LR	1.33	230.3	F	328	LR	1.56	330.5	F	382	+	LR	1.56	330.5	F	382	U
	Northbound	R	0.44	40.6	D	229	R	0.48	41.5	D	247		R	0.48	41.5	D	247		R	0.47	33.1	C	191	R	0.50	33.9	C	205		R	0.50	33.9	C	205		R	0.52	51.5	D	254	R	0.61	55.3	E	306		R	0.61	55.3	E	306	
		T	1.04	62.8	E	524	T	1.10	89.8	F	609	+	T	1.10	89.8	F	609	U	T	0.97	52.9	D	535	T	0.98	54.9	D	540		T	0.98	54.9	D	548		T	1.05	34.0	C	254	T	1.11	62.9	E	335	+	T	1.11	62.9	E	335	U
		R	0.83	41.7	D	270	R	0.83	42.7	D	272		R	0.83	42.7	D	272		R	0.95	60.9	E	335	R	0.95	60.8	E	334		R	0.95	61.3	E	338		R	0.87	10.1	B	114	R	0.87	10.7	B	125		R	0.87	10.7	B	125	
	Southbound	L	0.59	63.8	E	181	L	0.66	66.1	E	201		L	0.66	66.1	E	201		L	0.85	74.5	E	187	L	0.88	78.3	E	197		L	0.88	78.3	E	197		L	1.41	270.5	F	385	L	1.48	299.9	F	408	+	L	1.48	299.9	F	408	U
		T	0.85	17.5	B	795	T	0.96	27.5	C	1095		T	0.96	27.5	C	1095		T	0.81	17.2	B	587	T	0.82	17.4	B	598		T	0.82	17.4	B	598		T	1.22	121.7	F	1629	T	1.30	156.7	F	1756	+	T	1.30	156.7	F	1756	U
		Intersection		50.7	D		Intersection		69.1	E			Intersection		69.1	E			Intersection		42.3	D		Intersection		45.2	D			Intersection		45.3	D			Intersection		88.1	F		Intersection		120.6	F			Intersection		120.6	F		
Route 9A/W 40th St																																																	
105	Westbound	R	0.21	44.2	D	88	R	0.21	44.2	D	88		R	0.21	44.2	D	88		R	0.07	34.0	C	35	R	0.07	34.0	C	35		R	0.07	34.0	C	35		R	0.08	48.5	D	35	R	0.08	48.5	D	35		R	0.08	48.5	D	35	
	Northbound	L	0.19	43.7	D	81	L	0.19	43.7	D	81		L	0.19	43.7	D	81		L	0.12	34.7	C	49	L	0.12	34.7	C	49		L	0.12	34.7	C	49		L	0.20	50.8	D	83	L	0.20	50.8	D	83		L	0.20	50.8	D	83	
		TR	0.86	23.5	C	675	TR	0.92	27.6	C	790		TR	0.92	27.6	C	790		TR	0.79	17.5	B	465	TR	0.80	17.9	B	484		TR	0.80	17.9	B	484		TR	1.07	59.4	E	1377	TR	1.14	87.8	F	1535	+	TR	1.14	87.8	F	1535	U
	Southbound	T	1.08	68.4	E	1436	T	1.17	105.6	F	1639	+	T	1.17	105.6	F	1639	U	T	0.96	29.7	C	860	T	0.97	31.6	C	953		T	0.97	31.6	C	953		T	0.98	32.8	C	1223	T	1.03	45.3	D	1443	+	T	1.03	45.3	D	1443	U
		R	0.40	59.9	E	120	R	0.40	59.9	E	120		R	0.40	59.9	E	120		R	0.44	51.3	D	120	R	0.44	51.3	D	120		R	0.44	51.3	D	120		R	0.46	57.0	E	164	R	0.46	57.0	E	164		R	0.46	57.0	E	164	
		Intersection		47.7	D		Intersection		69.1	E			Intersection		69.1	E			Intersection		24.4	C		Intersection		25.6	C			Intersection		25.6	C			Intersection		47.7	D		Intersection		68.6	E			Intersection		68.6	E		
Route 9A/W 42nd St																																																	
106	Eastbound	LTR	0.04	46.5	D	20	LTR	0.04	46.5	D	20		LTR	0.04	46.5	D	20		LTR	0.22	35.2	D	69	LTR	0.22	35.2	D	69		LTR	0.22	36.1	D	70		LTR	0.05	46.6	D	20	LTR	0.05	46.6	D	20		LTR	0.05	46.6	D	20	
	Westbound	L	0.41	53.3	D	106	L	0.41	53.3	D	106		L	0.41	53.3	D	106		L	0.43	38.5	D	92	L	0.43	38.5	D	92		L	0.44	39.6	D	93		L	0.47	55.5	E	96	L	0.47	55.5	E	96		L	0.47	55.5	E	96	
		R	0.52	33.2	C	226	R	0.52	33.2	C	226		R	0.52	33.2	C	226		R	0.65	25.5	C	265	R	0.65	25.5	C	265		R	0.67	27.3	C	276		R	0.28	36.4	D	110	R	0.29	36.6	D	115		R	0.29	36.6	D	115	
	Northbound	T	1.19	130.9	F	1124	T	1.27	165.4	F	1242	+	T	1.27	165.4	F	1242	U	T	1.29	170.7	F	861	T	1.31	182.0	F	886	+	T	1.26	155.8	F	863		T	1.20	127.3	F	1388	T	1.29	165.7	F	1549	+	T	1.29	165.7	F	1549	U
		R	0.57	35.2	D	258	R	0.57	35.2	D	258		R	0.57	35.2	D	258		R	0.63	40.2	D	193	R	0.63	40.2	D	193		R	0.60	36.9	D	186		R	0.47	24.3	C	191	R	0.47	24.3	C	191		R	0.47	24.3	C	191	
	Southbound	L	0.59	56.7	E	246	L	0.69	59.8	E	290		L	0.69	59.8	E	290		L	0.63	46.8	D	203	L	0.67	47.8	D	213		L	0.69	49.5	D	216		L	0.94	91.7	F	295	L	0.99	101.9	F	319	+	L	0.99	101.9	F	319	U
		T	1.06	67.1	E	1243	T	1.17	109.0	F	1447	+	T	1.17	109.0	F	1447	U	T	1.17	112.5	F	963	T	1.18	119.5	F	983	+	T	1.18	119.5	F	983	U	T	1.17	109.4	F	1514	T	1.23	133.5	F	1629	+	T	1.23	133.5	F	1629	U
		Intersection		89.5	F		Intersection		121.0	F			Intersection		121.0	F			Intersection		116.6	F		Intersection		123.8	F			Intersection		113.8	F			Intersection		111.2	F		Intersection		140.0	F			Intersection		140.0	F		
Route 9A/W 54th St																																																	
107	Northbound	TR	0.86	20.1	C	691	TR	0.91	23.4	C	808		TR	0.91	23.4	C	808		TR	0.94	27.9	C	697	TR	0.96	30.0	C	725		TR	0.96	30.0	C	725		TR	1.04	49.4	D	1290	TR	1.11	78.3	E	1456	+	TR	1.11	78.3	E	1456	U
	Southbound	L	0.27	48.8	D	128	L	0.27	48.8	D	128		L	0.27	48.8	D	128		L	0.28	34.1	C	120	L	0.28	34.1	C	120		L	0.28	34.1	C	120		L	0.31	49.5	D	143	L	0.31	49.5	D	143		L	0.31	49.5	D	143	
		T	0.92	23.5	C	894	T	1.00	36.7	D	1197		T	1.00	36.7	D	1197		T	0.73	17.3	B	444	T	0.75	17.7	B	460		T	0.75	17.7	B	460		T	0.71	15.0	B	515	T	0.76	16.1	B	578		T	0.76	16.1	B	578	
	Southeastbound	R	0.80	21.9	C	669	R	0.80	21.9	C	669		R	0.80	21.9	C	669		R	0.48	14.1	B	237	R	0.48	14.1	B	237		R	0.48	14.1	B	237		R	0.45	11.6	B	251	R	0.45	11.6	B	251		R	0.45	11.6	B	251	
		Intersection		22.3	C		Intersection		30.0	C			Intersection		30.0	C			Intersection		22.7	C		Intersection		23.8	C			Intersection		23.8	C			Intersection		33.5	C		Intersection		49.5	D			Intersection		49.5	D		
Route 9A/W 56th St																																																	
108	Northbound	T	1.17	124.4	F	1121	T	1.26	160.3	F	1246	+	T	1.26	160.3	F	1246	U	T	0.76	16.0	B	473	T	0.78	16.4	B	490		T	0.78	16.4	B	490		T	1.26	146.1	F	1409	T	1.36	189.6	F	1590	+	T	1.36	189.6	F	1590	U
	Southbound	L	0.95	52.2	D	854	L	0.95	52.2	D	854		L	0.95	52.2	D	854		L	1.13	121.7	F	479	L	1.13	121.7	F	479		L	1.13	121.7	F	479		L	0.91	72.9	E	467	L	0.91	72.9	E	467		L	0.91	72.9	E	467	
		T	0.62	0.5	A	0	T	0.68	0.6	A	0		T	0.68	0.6	A	0		T	0.43	0.2	A	0	T	0.44	0.2	A	0		T	0.44	0.2	A	0		T	0.44	0.2	A	0	T	0.47	0.3	A	0		T	0.47	0.3	A	0	
		Intersection		55.2	E		Intersection		68.1	E			Intersection		68.1	E			Intersection		23.8	C		Intersection		23.7	C			Intersection		23.7	C			Intersection		89.4	F		Intersection		114.8	F			Intersection		114.8	F		
Route 9A/W 56th St Service Road																																																	
108	Eastbound	T	1.03	29.9	C	987	T	1.03	29.9	C	987		T	1.03	29.9	C	987		T	0.93	14.3	B	35	T	0.93	14.3	B	35		T	0.93	14.3	B	35		T	1.22	117.8	F	689	T	1.22	117.8	F	689		T	1.22	117.8	F	689	
	Northbound	TR	0.32	27.4	C	155	TR	0.32	27.4	C	155		TR	0.32	27.4	C	155		TR	0.22	8.9	A	92	TR	0.22	8.9	A	92		TR	0.22	8.9	A	92		TR	0.26	10.0	A	121	TR	0.26	10.0	A	121		TR	0.26	10.0	A	121	
		Intersection		29.1	C		Intersection		29.1	C			Intersection		29.1	C			Intersection		11.4	B		Intersection		11.4	B			Intersection		11.4	B			Intersection		61.8	E		Intersection		61.8	E			Intersection		61.8	E		

Notes: L = Left Turn, T= Through, R = Right Turn, DefL = Defacto Left Turn; LOS = Level of Service. The LOS results were reported using the HCM 2000 methodology. + = denotes significant adverse impact. U = denotes umitigable significant adverse impact. **This table has been revised for the FEIS.**

Table MA-T4
2044 No Action vs With Action vs With Action with Mitigation Conditions Level of Service Analysis
Unsignalized Intersections

#	Intersection & Approach	Weekday AM Peak Hour															Weekday MD Peak Hour															Weekday PM Peak Hour														
		2044 No Action					2044 With Action						2044 With Action					2044 No Action					2044 With Action						2044 With Action						2044 No Action					2044 With Action						2044 With Action					
		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	
103	**Route 9A & 33rd Street**																																												
	Westbound	R	1.13	116.3	F	436.0	R	1.63	317.5	F	988.0	+	R	1.63	317.5	F	988.0	U	R	1.27	165.5	F	570.0	R	1.34	194.4	F	644.0	+	R	1.34	194.4	F	644.0	U	R	2.64	777.9	F	1542.0	R	3.32	Err	F	Err	+	R	3.32	Err	F	Err	U

Notes: L = Left Turn, T= Through, R = Right Turn, DefL = Defacto Left Turn; LOS = Level of Service. The LOS results were reported using the HCM 2000 methodology. + = denotes significant adverse impact. U = denotes umitigable significant adverse impact. **This table has been revised for the FEIS.**

Table MA-T5

Phase 1 No Action Construction vs Peak Construction vs Peak Construction with Mitigation Conditions Level of Service Analysis

Signalized Intersections

#	Intersection & Approach	Weekday AM Peak Hour																Weekday PM Peak Hour															
		Phase 1 No Action					Phase 1 With Action						Phase 1 With Action with Mitigation						Phase 1 No Action					Phase 1 With Action						Phase 1 With Action with Mitigation				
		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)
12	**QMT Exit St/E 35th St**																																
	Westbound	LT	0.56	21.2	C	191	LT	0.58	21.7	C	198		LT	0.61	23.9	C	208.0		LT	0.31	16.4	B	111	LT	0.31	16.4	B	111		LT	0.31	16.4	B	111.0
	Southbound	L	0.79	38.5	D	358	L	0.80	39.2	D	366		L	0.75	34.4	C	346		L	0.86	45.9	D	408	L	0.86	45.9	D	408		L	0.86	45.9	D	408
		LT	0.81	40.1	D	376	LT	0.81	40.6	D	381		LT	0.76	35.2	D	361		LT	1.07	92.7	F	458	LT	1.07	92.7	F	458		LT	1.07	92.7	F	458
		R	0.93	56.7	E	415	R	1.02	76.1	E	467	+	R	0.95	58.8	E	449		R	1.11	105.2	F	516	R	1.12	107.6	F	521		R	1.12	107.6	F	521
		Intersection		40.1	D		Intersection		46.5	D			Intersection		39.4	D			Intersection		75.6	E		Intersection		76.3	E			Intersection		76.3	E	
21	**Lexington Ave/E 31st St**																																
	Westbound	LT	1.05	92.6	F	351	LT	1.09	103.8	F	368	+	LT	1.05	90.5	F	360		LT	1.04	85.8	F	370	LT	1.04	86.5	F	372		LT	1.04	86.5	F	372
	Southbound																		TR	0.96	10.4	B	21	TR	0.97	11.0	B	21		TR	0.97	11.0	B	21
		T	0.75	1.6	A	12	T	0.94	4.2	A	12		T	0.96	5.0	A	12																
		R	0.91	9.5	A	5	R	1.01	22.9	C	6		R	1.04	33.3	C	6																
		Intersection		19.3	B		Intersection		25.1	C			Intersection		24.3	C			Intersection		25.5	C		Intersection		26.2	C			Intersection		26.2	C	
24	**Lexington Ave/E 34th St**																																
	Eastbound	T	0.90	56.8	E	347	T	0.91	58.2	E	357		T	0.91	58.2	E	357		T	1.00	41.1	D	323	T	1.02	48.1	D	326	+	T	0.99	39.3	D	324
		R	0.43	32.5	C	115	R	0.42	32.4	C	113		R	0.42	32.4	C	113		R	0.27	20.4	C	51	R	0.27	20.4	C	50		R	0.26	19.5	B	49
	Westbound	T	1.08	71.3	E	517	T	1.10	78.8	E	533	+	T	1.10	78.8	E	533	U	T	1.21	129.1	F	493	T	1.21	129.1	F	493		T	1.18	113.0	F	482
	Southbound	LT	1.12	65.8	E	459	LT	1.15	75.6	E	457	+	LT	1.15	78.6	E	504	U	LT	1.02	25.6	C	420	LT	1.03	26.6	C	422		LT	1.05	37.3	D	423
		R	0.26	3.1	A	4	R	0.24	2.6	A	5		R	0.24	3.7	A	5		R	0.85	24.7	C	9	R	0.85	24.5	C	9		R	0.90	36.6	D	20
		Intersection		63.1	E		Intersection		70.7	E			Intersection		72.5	E			Intersection		51.4	D		Intersection		53.1	D			Intersection		53.9	D	
25	**Lexington Ave/E 35th St**																																
	Westbound	L	1.16	130.7	F	144	L	1.34	209.4	F	168	+	L	0.64	50.7	D	72		L	0.88	34.7	C	102	L	0.90	35.7	D	105		L	0.41	26.5	C	52
		T	1.23	146.8	F	312	T	1.26	161.7	F	292	+	T	0.98	48.0	D	265		T	1.34	170.5	F	426	T	1.34	170.5	F	424		T	1.21	113.6	F	389
	Southbound	T	0.94	11.6	B	399	T	0.94	11.9	B	399		T	0.94	11.9	B	399		T	0.92	7.9	A	37	T	0.92	7.9	A	38		T	0.92	7.9	A	38
		R	0.46	7.4	A	8	R	0.42	6.4	A	8		R	0.42	6.4	A	8		R	0.55	8.6	A	5	R	0.55	8.6	A	5		R	0.55	8.6	A	5
		Intersection		53.6	D		Intersection		67.6	E			Intersection		24.2	C			Intersection		56.2	E		Intersection		56.2	E			Intersection		39.3	D	
29	**Park Ave/E 31st St**																																
	Westbound	LTR	1.28	152.3	F	361	LTR	1.39	202.9	F	385	+	LTR	1.26	143.6	F	363		LTR	1.33	173.7	F	425	LTR	1.34	180.1	F	429	+	LTR	1.30	160.5	F	421
	Northbound	T	0.49	5.5	A	43	T	0.49	5.5	A	43		T	0.53	7.1	A	52		T	0.68	6.5	A	77	T	0.68	6.6	A	78		T	0.70	7.3	A	86
	Southbound	TR	0.76	20.1	C	290	TR	0.77	20.4	C	295		TR	0.83	24.8	C	320.0		TR	0.82	22.4	C	337	TR	0.82	22.4	C	337		TR	0.84	24.0	C	347.0
		Intersection		42.6	D		Intersection		56.8	E			Intersection		45.9	D			Intersection		47.5	D		Intersection		49.0	D			Intersection		45.9	D	
35	**Madison Ave/E 31st St**																																
	Westbound	TR	0.91	56.4	E	378	TR	1.04	85.5	F	464	+							TR	1.21	144.6	F	560	TR	1.22	150.0	F	567	+					
													T	0.77	39.8	D	299.0													T	0.84	45.9	D	340
													R	0.29	25.0	C	74.0													R	0.47	30.8	C	108.0
	Northbound	LT	0.93	16.3	B	162	LT	0.93	16.4	B	176		LT	0.93	16.4	B	176		LT	1.22	108.8	F	417	LT	1.23	112.7	F	425	+	LT	1.20	100.0	F	416
		Intersection		28.6	C		Intersection		39.9	D			Intersection		23.4	C			Intersection		119.3	F		Intersection		123.7	F			Intersection		83.0	F	
44	**Fifth Ave/E 31st St**																																
	Westbound	LT	1.07	97.7	F	358	LT	1.23	155.1	F	434	+							LT	1.35	201.9	F	562	LT	1.36	206.4	F	569	+					
													L	0.39	28.7	C	80.0													L	0.57	35.0	C	114.0
													T	0.87	50.9	D	288													T	0.91	52.2	D	363
	Southbound	TR	0.80	22.7	C	288	TR	0.80	22.6	C	287		TR	0.80	22.6	C	287		TR	1.01	47.6	D	452	TR	1.02	50.1	D	457		TR	1.02	50.1	D	457
		Intersection		38.8	D		Intersection		54.6	D			Intersection		28.2	C			Intersection		87.2	F		Intersection		90.4	F			Intersection		49.6	D	
51	**Broadway/W 31st St**																																
	Westbound	LT	0.96	61.3	E	202	LT	1.11	100.2	F	215	+	LT	0.94	61.2	E	296		LT	1.34	194.2	F	274	LT	1.36	204.6	F	281	+	LT	1.31	187.1	F	440
	Southbound	TR	0.07	23.0	C	46	TR	0.08	22.8	C	51		TR	0.09	22.9	C	51		TR	0.13	25.0	C	83	TR	0.13	24.7	C	85		TR	0.14	24.7	C	85
		Intersection		57.4	E		Intersection		92.4	F			Intersection		57.3	E			Intersection		174.2	F		Intersection		183.2	F			Intersection		167.8	F	
55	**Sixth Ave/W 31st St**																																
	Westbound	T	0.91	37.2	D	51	T	1.05	53.7	D	51	+	T	1.05	68.7	E	173	U	T	1.46	232.2	F	185	T	1.49	247.7	F	187	+	T	1.49	246.7	F	198	U
		R	0.39	19.8	B	20	R	0.49	19.3	B	22		R	0.49	18.3	B	22		R	0.61	23.8	C	24	R	0.62	23.8	C	24		R	0.62	23.1	C	24	
	Northbound	L	2.01	497.3	F	170	L	2.33	635.8	F	207	+	L	2.33	635.8	F	207	U	L	1.99	469.8	F	195	L	2.03	485.6	F	198	+	L	2.03	485.6	F	198	U
		T	0.77	7.1	A	29	T	0.78	7.6	A	33		T	0.78	7.6	A	33		T	0.77	4.7	A	28	T	0.78	5.1	A	31		T	0.78	5.1	A	31	
		Intersection		49.0	D		Intersection		67.6	E			Intersection		69.5	E			Intersection		90.6	F		Intersection		95.8	F			Intersection		95.6	F	
67	**Seventh Ave/W 31st St**																																
	Westbound	L	0.28	16.0	B	46	L	0.28	16.1	B	36		L	0.28	16.4	B	36		L	0.49	18.8	B	61	L	0.56	19.8	B	72		L	0.56	19.8	B	72	
		T	0.54	18.9	B	114	T	0.58	19.7	B	102		T	0.58	20.1	C	102		T	1.43	219.7	F	162	T	1.67	330.7	F	218	+	T	1.67	330.7	F	218	U
	Southbound	T	0.68	3.1	A	6	T	0.69	3.3	A	9		T	0.69	3.3	A	9.0		T	0.81	5.4	A	6	T	0.81	5.4	A	6		T	0.81	4.7	A	1.0	
		R	0.71	29.3	C	154	R	0.74	31.1	C	159		R	0.74	31.0	C	159		R	1.06	81.0	F	275	R	1.07	83.6	F	278		R	1.07	82.7	F	278	
		Intersection		9.2	A		Intersection		9.9	A			Intersection		9.9	A			Intersection		62.7	E		Intersection		89.8	F			Intersection		89.3	F	
69	**Seventh Ave/W 33rd St**																																
	Westbound	L	1.11	106.7	F	238	L	1.11	106.7	F	240		L	1.11	106.7	F	240		L	1.39	219.4	F	263	L	1.39	219.4	F	263		L	1.39	219.4	F	263	
	Southbound	T	0.61	1.5	A	3	T	0.64	1.6	A	3		T	0.64	1.6	A	3		T	0.66	2.2	A	9	T	0.66	2.2	A	9		T	0.66	2.2	A	9	
		Intersection		17.7	B		Intersection		17.2	B			Intersection		17.2	B			Intersection		36.2	D		Intersection		36.1	D			Intersection		36.1	D	

Table MA-T5

Phase 1 No Action Construction vs Peak Construction vs Peak Construction with Mitigation Conditions Level of Service Analysis

Signalized Intersections

#	Intersection & Approach	Weekday AM Peak Hour																Weekday PM Peak Hour															
		Phase 1 No Action					Phase 1 With Action						Phase 1 With Action with Mitigation					Phase 1 No Action					Phase 1 With Action						Phase 1 With Action with Mitigation				
		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)
Seventh Ave/W 34th St																																	
70	Eastbound	TR	1.03	48.4	D	387	TR	1.03	51.1	D	390		TR	1.03	51.1	D	390	TR	1.31	160.2	F	521	TR	1.32	165.7	F	523	+	TR	1.29	149.0	F	513
	Westbound	T	0.84	38.1	D	429	T	0.86	40.0	D	445		T	0.86	40.0	D	445	T	1.42	231.2	F	626	T	1.48	256.2	F	640	+	T	1.33	189.8	F	614
	Southbound	T	0.66	6.0	A	53	T	0.68	6.5	A	65		T	0.68	6.3	A	65	T	0.68	7.2	A	85	T	0.68	7.3	A	86		T	0.70	8.0	A	86
		Intersection		23.6	C		Intersection		24.6	C			Intersection		24.6	C		Intersection		98.0	F		Intersection		105.2	F			Intersection		86.7	F	
Seventh Ave/W 35th St																																	
71	Westbound	L	0.42	28.9	C	112	L	0.50	31.2	C	133		L	0.48	29.7	C	131.0	L	0.51	32.0	C	123	L	0.52	32.5	C	127		L	0.49	30.7	C	124.0
		T	1.07	111.1	F	270	T	1.10	118.0	F	276	+	T	1.06	105.0	F	271	T	1.42	239.1	F	455	T	1.44	248.9	F	464	+	T	1.39	227.4	F	458
	Southbound	TR	0.73	6.1	A	24	TR	0.74	6.8	A	28		TR	0.76	7.8	A	31.0	TR	0.89	11.3	B	48	TR	0.89	11.3	B	47		TR	0.92	13.2	B	368
		Intersection		24.4	C		Intersection		26.2	C			Intersection		24.8	C		Intersection		55.7	E		Intersection		58.0	E			Intersection		55.2	E	
Eighth Ave/W 30th St																																	
78	Eastbound	L	0.78	31.0	C	240	L	0.82	34.1	C	262		L	0.82	34.1	C	262	L	0.99	66.9	E	269	L	1.01	70.5	E	275		L	0.96	59.3	E	266
		T	0.82	28.4	C	303	T	0.91	39.2	D	360		T	0.91	39.2	D	360	T	1.64	323.8	F	528	T	1.66	329.2	F	529	+	T	1.62	310.4	F	524
	Northbound	TR	0.60	8.5	A	41	TR	0.61	8.5	A	41		TR	0.61	8.5	A	41	TR	0.73	10.2	B	55	TR	0.74	10.3	B	56		TR	0.76	11.3	B	66
		Intersection		15.7	B		Intersection		18.9	B			Intersection		18.9	B		Intersection		88.6	F		Intersection		90.6	F			Intersection		85.4	F	
Ninth Ave/W 30th St																																	
87	Eastbound	T	0.52	30.4	C	123	T	0.61	32.5	C	146		T	0.61	32.5	C	146	T	0.59	31.8	C	147	T	0.60	31.9	C	148		T	0.60	31.9	C	148
		R	0.68	35.2	D	148	R	0.68	35.0	C	149		R	0.68	35.0	C	149	R	0.71	39.8	D	118	R	0.71	39.8	D	118		R	0.71	39.8	D	118
	Southbound	L	0.59	3.5	A	11	L	0.59	3.4	A	11		L	0.59	3.4	A	11	L	0.97	13.0	B	27	L	0.98	14.8	B	27		L	0.98	14.8	B	27
		T	0.56	1.4	A	12	T	0.56	1.3	A	12		T	0.56	1.3	A	12	T	0.54	1.8	A	23	T	0.54	1.8	A	23		T	0.54	1.8	A	23
		R	0.09	1.1	A	1	R	0.09	1.1	A	1		R	0.09	1.1	A	1	R	0.18	1.7	A	3	R	0.19	1.7	A	3		R	0.19	1.7	A	3
		Intersection		11.3	B		Intersection		12.1	B			Intersection		12.1	B		Intersection		13.5	B		Intersection		13.9	B			Intersection		13.9	B	
Dyer Ave/W 30th St																																	
93	Eastbound	L	0.09	5.2	A	12	L	0.09	5.2	A	12		L	0.09	5.2	A	12	L	0.42	10.4	B	97	L	0.43	10.4	B	97		L	0.43	10.4	B	97
	Westbound	R	0.07	2.4	A	6	R	0.07	2.4	A	6		R	0.07	2.4	A	6.0	R	0.18	12.4	B	49	R	0.19	12.6	B	52		R	0.19	12.6	B	52.0
	Southbound	T	0.40	16.1	B	120	T	0.43	16.5	B	130		T	0.43	16.5	B	130.0	T	0.16	30.4	C	71	T	0.16	30.4	C	72		T	0.16	30.4	C	72
		Intersection		12.7	B		Intersection		13.1	B			Intersection		13.1	B		Intersection		13.9	B		Intersection		14.0	B			Intersection		14.0	B	

Notes: L = Left Turn, T= Through, R = Right Turn, DefL = Defacto Left Turn; LOS = Level of Service. The LOS results were reported using the HCM 2000 methodology. + = denotes significant adverse impact. U = denotes unmitigable significant adverse impact. **This table has been revised for the FEIS.**

Table MA-T6

Phase 2 No Action Construction vs Peak Construction vs Peak Construction with Mitigation Conditions Level of Service Analysis

Signalized Intersections

#	Intersection & Approach	Weekday AM Peak Hour																Weekday PM Peak Hour											
		Phase 2 No Action					Phase 2 With Action						Phase 2 With Action with Mitigation					Phase 2 No Action					Phase 2 With Action						Phase 2 With Action with Mitigation					
		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	
1	**FDR Dr Srv Rd/E 34th St**																												
	Eastbound	L	1.76	381.1	F	204	L	1.67	340.7	F	203		L	1.57	295.0	F	194		L	1.82	398.7	F	210	L	1.98	472.4	F	225	+	L	1.98	472.4	F	225	U
		LTR	1.39	218.0	F	230	LTR	1.41	224.6	F	228	+	LTR	1.33	190.1	F	219		LTR	1.54	273.7	F	250	LTR	1.57	285.4	F	242	+	LTR	1.57	285.4	F	242	U
		R	0.93	29.2	C	180	R	0.94	30.3	C	181		R	0.95	31.3	C	182		R	0.87	13.9	B	94	R	0.89	14.2	B	90		R	0.89	14.2	B	90	
	Westbound	LTR	0.02	29.9	C	10	LTR	0.02	29.9	C	10		LTR	0.02	29.0	C	10.0		LTR	0.04	31.8	C	16	LTR	0.04	31.8	C	16		LTR	0.04	31.8	C	16.0	
	Northbound	L	0.50	19.9	B	84	L	0.51	20.5	C	92		L	0.53	21.5	C	95.0		L	1.14	108.1	F	543	L	1.17	121.0	F	564	+	L	1.17	121.0	F	564	U
		LTR	0.57	12.8	B	109	LTR	1.14	109.3	F	301	+	LTR	1.17	122.2	F	307	U	LTR	0.99	44.8	D	463	LTR	1.89	426.9	F	670	+	LTR	1.89	426.9	F	670	U
	Southbound	LTR	0.83	22.9	C	132	LTR	0.85	23.6	C	125		LTR	0.85	23.6	C	125		LTR	0.90	25.5	C	117	LTR	0.93	26.8	C	117		LTR	0.93	26.8	C	117	
		Intersection		90.1	F		Intersection		101.9	F			Intersection		94.1	F			Intersection		101.8	F		Intersection		197.4	F			Intersection		197.4	F		
5	**First Ave/E 34th St**																												
	Eastbound	L	0.41	9.6	A	26	L	0.46	8.6	A	13		L	0.46	8.0	A	13		L	1.01	59.6	E	49	L	1.01	48.3	D	11		L	1.01	49.6	D	12	
		T	1.14	84.9	F	502	T	1.17	92.3	F	140	+	T	1.17	91.3	F	139	U	T	1.17	93.8	F	447	T	1.23	117.1	F	73	+	T	1.23	119.1	F	83	U
	Westbound	T	0.61	38.1	D	174	T	0.67	39.9	D	165		T	0.67	39.8	D	163		T	1.22	122.4	F	294	T	1.30	157.9	F	279	+	T	1.30	157.9	F	279	U
		R	0.75	52.4	D	143	R	0.75	49.5	D	102		R	0.75	49.1	D	101		R	1.27	146.2	F	161	R	1.27	146.5	F	136		R	1.27	146.5	F	136	
	Northbound	L	0.47	25.8	C	93	L	0.50	26.8	C	102		L	0.50	26.8	C	102.0		L	0.81	49.4	D	185	L	0.83	52.4	D	192		L	0.83	52.4	D	192	
		T	0.83	29.8	C	236	T	0.83	29.8	C	236		T	0.83	29.8	C	236.0		T	1.08	76.1	E	400	T	1.08	76.4	E	400		T	1.08	76.4	E	400	
		R	1.18	131.9	F	464	R	1.18	130.9	F	468		R	1.18	130.9	F	468		R	1.17	125.9	F	433	R	1.19	134.0	F	442	+	R	1.19	134.0	F	442	U
		Intersection		60.7	E		Intersection		62.3	E			Intersection		62.0	E			Intersection		94.8	F		Intersection		105.4	F			Intersection		105.8	F		
6	**QMT Approach St/E 34th St**																												
	Eastbound	L	0.44	10.4	B	52	L	0.49	16.1	B	83		L	0.47	11.9	B	58		L	0.56	22.2	C	84	L	0.59	23.4	C	89		L	0.61	22.1	C	102	
		TR	0.97	28.2	C	635	TR	1.90	422.2	F	810	+	TR	1.83	387.3	F	800	U	TR	1.04	43.4	D	538	TR	2.07	497.8	F	687	+	TR	2.03	475.4	F	745	U
	Westbound	T	1.02	106.9	F	270	T	1.16	151.8	F	310	+	T	1.05	112.8	F	295	U	T	2.26	627.8	F	292	T	2.52	742.7	F	313	+	T	2.24	618.5	F	302	
		R	0.68	58.4	E	154	R	0.74	62.5	E	156	+	R	0.65	55.2	E	141		R	1.23	166.7	F	220	R	1.25	171.8	F	203	+	R	1.13	114.7	F	174	
	Northbound	LTR	0.00	0.0	A	0	LTR	0.00	0.0	A	0		LTR	0.00	0.0	A	0.0		LTR	0.25	42.8	D	46	LTR	0.25	42.8	D	46		LTR	0.29	45.4	D	46.0	
		Intersection		42.9	D		Intersection		269.0	F			Intersection		240.9	F			Intersection		170.3	F		Intersection		407.5	F			Intersection		362.7	F		
9	**Second Ave/E 34th St**																												
	Eastbound	T	0.70	34.8	C	188	T	0.75	36.4	D	210		T	0.75	36.4	D	210.0		T	1.05	87.1	F	331	T	1.13	114.5	F	368	+	T	1.06	84.9	F	351	
		R	0.44	32.3	C	98	R	0.60	39.5	D	103		R	0.60	39.5	D	103		R	0.58	42.8	D	135	R	0.58	42.1	D	132		R	0.53	38.7	D	129	
	Westbound	T	0.52	20.3	C	44	T	0.57	23.4	C	42		T	0.57	23.8	C	59		T	0.64	29.0	C	25	T	0.71	31.6	C	25		T	0.66	31.1	C	35	
	Southbound	L	0.66	35.2	D	147	L	0.66	35.2	D	147		L	0.66	35.2	D	147.0		L	0.61	33.5	C	147	L	0.61	33.5	C	147		L	0.61	33.5	C	147.0	
		T	0.56	16.6	B	188	T	0.57	16.7	B	190		T	0.57	16.7	B	190.0		T	0.72	19.3	B	284	T	0.72	19.3	B	285		T	0.76	21.4	C	300.0	
		R	0.41	18.3	B	87	R	0.42	18.8	B	89		R	0.42	18.8	B	89.0		R	0.23	14.2	B	48	R	0.23	14.2	B	48		R	0.24	15.6	B	51.0	
		Intersection		24.0	C		Intersection		25.1	C			Intersection		25.1	C			Intersection		37.1	D		Intersection		44.1	D			Intersection		38.4	D		
10	**Second Ave/E 36th St**																												
	Eastbound	TR	1.33	196.4	F	275	TR	1.36	209.5	F	279	+	TR	1.26	168.4	F	269		TR	0.67	34.6	C	164	TR	0.74	36.7	D	182		TR	0.74	36.7	D	182	
	Westbound	L	1.42	239.5	F	309	L	1.42	239.5	F	309		L	1.42	239.5	F	309																		
	Southbound	L	2.32	653.4	F	297	L	2.32	653.4	F	297		L	2.32	653.4	F	297		L	0.60	30.9	C	149	L	0.60	30.9	C	149		L	0.60	30.9	C	149	
		T	0.39	13.3	B	113	T	0.39	13.4	B	114		T	0.40	14.0	B	117		T	0.61	12.7	B	222	T	0.61	12.7	B	222		T	0.61	12.7	B	222	
		Intersection		212.0	F		Intersection		214.9	F			Intersection		203.6	F			Intersection		21.6	C		Intersection		22.6	C			Intersection		22.6	C		
11	**QMT Exit St/E 34th St**																												
	Eastbound	T	0.56	2.7	A	32	T	0.60	3.0	A	31		T	0.60	3.1	A	31		T	0.66	3.5	A	34	T	0.70	4.3	A	30		T	0.70	5.0	A	29	
	Westbound	T	0.67	38.0	D	236	T	0.71	39.7	D	256		T	0.71	38.9	D	256.0		T	0.72	16.5	B	73	T	0.78	18.0	B	75		T	0.78	19.2	B	192	
	Southbound	LR	0.62	31.1	C	70	LR	0.64	31.3	C	70		LR	0.64	30.2	C	82.0		LR	0.65	13.5	B	39	LR	0.66	13.5	B	39		LR	0.66	13.9	B	41	
		R	0.19	10.4	B	41	R	0.20	10.5	B	41		R	0.20	8.7	A	41		R	0.25	2.5	A	7	R	0.26	2.5	A	7		R	0.26	2.4	A	7	
		Intersection		18.3	B		Intersection		18.9	B			Intersection		18.3	B			Intersection		8.3	A		Intersection		9.2	A			Intersection		9.9	A		
12	**QMT Exit St/E 35th St**																												
	Westbound	LT	0.57	21.5	C	195	LT	0.61	22.6	C	210		LT	0.68	27.7	C	231		LT	0.32	16.5	B	114	LT	0.31	16.3	B	108		LT	0.31	17.0	B	111	
	Southbound	L	0.80	39.6	D	369	L	0.81	40.4	D	376		L	0.72	31.1	C	315		L	0.88	47.7	D	417	L	0.88	47.7	D	417		L	0.85	43.4	D	408	
		LT	0.82	41.3	D	386	LT	0.83	42.2	D	393		LT	0.74	32.0	C	331		LT	1.09	99.2	F	469	LT	1.12	106.8	F	483	+	LT	1.08	93.5	F	473	
		R	1.02	75.5	E	467	R	1.18	130.4	F	563	+	R	1.04	78.2	E	528		R	1.22	145.8	F	579	R	1.24	153.9	F	591	+	R	1.20	137.9	F	583	
		Intersection		46.5	D		Intersection		65.2	E			Intersection		45.4	D			Intersection		92.0	F		Intersection		97.7	F			Intersection		87.3	F		
13	**QMT Exit St/E 37th St**																												
	Westbound	TR	0.63	28.0	C	191	TR	0.65	28.9	C	199		TR	0.65	28.9	C	199		TR	0.57	24.8	C	229	TR	0.56	24.4	C	221		TR	0.56	24.4	C	221	
	Northbound	L	0.27	0.2	A	0	L	0.29	0.2	A	0		L	0.29	0.2	A	0		L	0.29	0.2	A	0	L	0.29	0.2	A	0		L	0.29	0.2	A	0	
		R	0.65	20.2	C	233	R	0.65	20.2	C	234		R	0.65	20.2	C	234		R	0.72	21.9	C	283	R	0.72	21.9	C	283		R	0.72	21.9	C	283	
		Intersection		10.9	B		Intersection		10.9	B			Intersection		10.9	B			Intersection		11.4	B		Intersection		11.2	B			Intersection		11.2	B		
16	**Third Ave/E 34th St**																												
	Eastbound	T	0.95	32.7	C	183	T	1.02	40.3	D	177		T	1.02	40.3	D	177		T	1.16	103.5	F	418	T	1.41	215.0	F	455	+	T	1.11	82.2	F	378	
	Westbound	T	0.82	23.0	C	399	T	0.88	27.0	C	440		T	0.88	27.2	C	440		T	1.05	71.3	E	499	T	1.13	99.1	F	557	+	T	1.04	62.7	E	525	
		R	0.25	9.9	A	36	R	0.22	9.5	A	34		R	0.22	9.7	A	34		R	0.33	17.4	B	54	R	0.33	17.0	B	49		R	0.29	14.6	B	39	
	Northbound	LTR	0.62	20.5	C	172	LTR	0.63	20.6	C	173		LTR	0.63	20.6	C	173.0		LTR	0.91	29.7	C	321	LTR	0.91	30.2	C	326		LTR	0.99	43.2	D	378	
		Intersection		23.2	C		Intersection		25.9	C			Intersection		25.9	C			Intersection		49.4	D		Intersection		76.1	E			Intersection		52.9	D		

Table MA-T6

Phase 2 No Action Construction vs Peak Construction vs Peak Construction with Mitigation Conditions Level of Service Analysis

Signalized Intersections

#	Intersection & Approach	Weekday AM Peak Hour																Weekday PM Peak Hour															
		Phase 2 No Action					Phase 2 With Action						Phase 2 With Action with Mitigation						Phase 2 No Action					Phase 2 With Action						Phase 2 With Action with Mitigation				
		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	
17	**Third Ave/E 35th St**																																
	Westbound	T	1.35	192.3	F	580	T	1.53	272.0	F	608	+	T	1.53	273.8	F	665	U	T	1.48	254.0	F	508	T	1.49	254.8	F	498		T	1.49	255.7	F	515	
		R	0.17	18.1	B	33	R	0.17	18.0	B	30		R	0.17	18.9	B	30		R	0.18	21.5	C	29	R	0.18	21.7	C	29		R	0.18	22.0	C	29	
	Northbound	LT	0.51	3.4	A	16	LT	0.51	3.4	A	16		LT	0.51	3.3	A	16		LT	0.71	2.9	A	18	LT	0.71	2.9	A	18		LT	0.71	2.9	A	16	
		Intersection		67.1	E		Intersection		101.6	F			Intersection		102.3	F			Intersection		67.2	E		Intersection		67.5	E			Intersection		67.7	E		
18	**Third Ave/E 36th St**																																
	Eastbound	LT	0.85	32.9	C	266	LT	0.87	33.3	C	274		LT	0.87	33.3	C	274		LT	0.38	18.5	B	100	LT	0.43	21.6	C	126		LT	0.43	21.6	C	126	
	Northbound	TR	0.35	1.9	A	11	TR	0.44	2.4	A	11		TR	0.44	2.4	A	11		TR	0.70	3.5	A	20	TR	0.87	8.0	A	20		TR	0.87	8.3	A	21	
		R	0.56	25.2	C	225	R	0.56	25.2	C	223		R	0.56	25.2	C	223		R	1.23	145.5	F	422	R	1.23	145.4	F	422		R	1.23	145.9	F	434	
		Intersection		15.9	B		Intersection		16.5	B			Intersection		16.4	B			Intersection		23.1	C		Intersection		26.5	C			Intersection		26.7	C		
19	**Third Ave/E 37th St**																																
	Westbound	T	0.72	17.1	B	224	T	1.44	223.7	F	535	+	T	1.44	223.7	F	535	U	T	0.87	23.6	C	297	T	1.64	311.5	F	623	+	T	1.64	311.5	F	623	U
		R	0.84	51.5	D	165	R	0.84	51.5	D	165		R	0.84	51.5	D	165		R	1.11	112.2	F	255	R	1.11	112.3	F	256		R	1.11	112.3	F	256	
	Northbound	LT	0.53	6.9	A	34	LT	0.53	6.7	A	34		LT	0.53	6.7	A	34		LT	0.73	6.2	A	31	LT	0.73	5.3	A	34		LT	0.73	4.1	A	34	
		Intersection		16.8	B		Intersection		106.0	F			Intersection		106.0	F			Intersection		27.7	C		Intersection		141.4	F			Intersection		140.9	F		
21	**Lexington Ave/E 31st St**																																
	Westbound	LT	1.51	274.0	F	563	LT	1.59	309.4	F	601	+	LT	1.59	309.4	F	601	U	LT	1.57	300.0	F	631	LT	1.57	300.0	F	631		LT	1.57	300.0	F	631	
	Southbound																		TR	0.98	11.8	B	21	TR	0.99	12.7	B	20		TR	0.99	12.7	B	20	
		T	0.93	4.1	A	13	T	0.99	8.2	A	12		T	0.99	7.4	A	13																	
		R	1.12	65.1	E	5	R	1.08	48.4	D	6		R	1.08	48.0	D	6																	
		Intersection		77.0	E		Intersection		89.0	F			Intersection		88.4	F			Intersection		91.3	F		Intersection		91.7	F			Intersection		91.7	F		
22	**Lexington Ave/E 32nd St**																																
	Eastbound	TR	0.66	31.9	C	193	TR	0.67	32.3	C	198		TR	0.69	34.3	C	202.0		TR	0.88	49.0	D	312	TR	0.91	52.8	D	327		TR	0.91	52.8	D	327	
	Southbound	LT	1.15	73.3	E	435	LT	1.19	87.6	F	434	+	LT	1.16	75.6	E	435		LT	0.99	6.6	A	14	LT	0.99	7.4	A	14		LT	0.99	7.4	A	14	
		Intersection		67.9	E		Intersection		80.3	F			Intersection		70.2	E			Intersection		14.6	B		Intersection		16.1	B			Intersection		16.1	B		
23	**Lexington Ave/E 33rd St**																																
	Westbound	LT	0.38	23.3	C	112	LT	0.37	23.2	C	112		LT	0.37	23.2	C	112.0		LT	0.55	27.2	C	169	LT	0.55	27.2	C	169		LT	0.55	27.2	C	169.0	
	Southbound																		TR	1.07	39.4	D	35	TR	1.08	41.0	D	35		TR	1.08	41.0	D	35	
		T	1.00	10.7	B	28	T	1.03	21.9	C	27		T	1.03	21.9	C	27																	
		R	0.65	4.6	A	5	R	0.47	2.9	A	5		R	0.47	2.9	A	5																	
		Intersection		11.4	B		Intersection		21.0	C			Intersection		21.0	C			Intersection		37.8	D		Intersection		39.1	D			Intersection		39.1	D		
24	**Lexington Ave/E 34th St**																																
	Eastbound	T	0.92	59.5	E	358	T	1.02	80.8	F	415	+	T	1.02	80.8	F	415	U	T	1.01	44.6	D	313	T	1.10	79.2	E	280	+	T	1.10	79.2	E	280	U
		R	0.45	33.4	C	116	R	0.43	32.4	C	109		R	0.43	32.4	C	109		R	0.27	20.5	C	51	R	0.27	20.5	C	41		R	0.27	20.5	C	41	
	Westbound	T	1.09	77.5	E	529	T	1.16	102.5	F	551	+	T	1.16	102.5	F	551	U	T	1.23	136.9	F	492	T	1.31	173.5	F	493	+	T	1.31	175.0	F	545	U
	Southbound	LT	1.14	73.9	E	459	LT	1.18	88.6	F	457	+	LT	1.18	91.1	F	513	U	LT	1.04	30.6	C	422	LT	1.04	31.6	C	422		LT	1.04	33.4	C	424	
		R	0.34	3.8	A	4	R	0.24	2.7	A	5		R	0.24	3.8	A	6		R	0.88	26.6	C	9	R	0.88	26.2	C	10		R	0.88	31.1	C	10	
		Intersection		69.6	E		Intersection		86.4	F			Intersection		87.9	F			Intersection		56.3	E		Intersection		73.0	E			Intersection		74.4	E		
25	**Lexington Ave/E 35th St**																																
	Westbound	L	1.18	140.7	F	136	L	1.44	252.7	F	161	+	L	0.68	51.4	D	70		L	0.90	35.6	D	99	L	0.93	37.3	D	101		L	0.42	26.5	C	50	
		T	1.33	191.2	F	328	T	1.43	235.9	F	311	+	T	1.10	91.4	F	274		T	1.44	216.7	F	441	T	1.43	212.5	F	435		T	1.29	151.5	F	400	
	Southbound	T	0.95	12.6	B	400	T	0.96	13.1	B	400		T	0.96	13.1	B	400		T	0.93	8.4	A	37	T	0.93	8.6	A	38		T	0.93	8.6	A	38	
		R	0.59	11.5	B	8	R	0.42	6.3	A	8		R	0.42	6.3	A	8		R	0.56	8.5	A	5	R	0.56	8.6	A	5		R	0.56	8.6	A	5	
		Intersection		67.0	E		Intersection		94.4	F			Intersection		36.2	D			Intersection		72.2	E		Intersection		70.8	E			Intersection		52.0	D		
26	**Lexington Ave/E 36th St**																																
	Eastbound	T	0.81	21.9	C	222	T	0.85	22.6	C	226		T	0.85	22.6	C	226		T	0.54	7.9	A	57	T	0.65	9.8	A	78		T	0.65	9.8	A	78	
		R	0.81	34.0	C	116	R	0.78	30.1	C	113		R	0.78	30.1	C	113		R	0.57	16.0	B	53	R	0.57	14.8	B	47		R	0.57	14.8	B	47	
	Southbound	LT	0.90	14.2	B	267	LT	0.91	14.5	B	405		LT	0.91	14.8	B	419		LT	1.00	25.1	C	421	LT	1.00	25.4	C	421		LT	1.00	25.4	C	421	
		Intersection		17.7	B		Intersection		17.8	B			Intersection		18.0	B			Intersection		20.7	C		Intersection		20.8	C			Intersection		20.8	C		
27	**Lexington Ave/E 37th St**																																
	Westbound	L	0.95	73.7	E	312	L	0.93	42.9	D	151		L	0.86	37.4	D	150		L	0.70	17.2	B	73	L	0.70	15.9	B	26		L	0.70	15.9	B	26	
		T	1.13	116.6	F	380	T	1.22	139.7	F	187	+	T	1.16	113.4	F	186		T	1.01	35.2	D	397	T	1.00	25.6	C	69		T	1.00	25.5	C	69	
	Southbound	T	0.84	28.7	C	304	T	0.84	29.0	C	306		T	0.89	33.5	C	347		T	0.93	37.2	D	363	T	0.93	37.3	D	363		T	0.93	37.3	D	363	
		R	0.29	19.8	B	57	R	0.26	18.9	B	55		R	0.28	20.7	C	58		R	0.72	34.9	C	169	R	0.72	34.9	C	169		R	0.72	34.9	C	169	
		Intersection		60.1	E		Intersection		64.5	E			Intersection		58.1	E			Intersection		34.5	C		Intersection		30.9	C			Intersection		30.9	C		
29	**Park Ave/E 31st St**																																
	Westbound	LTR	1.70	332.2	F	350	LTR	1.87	411.6	F	425	+							LTR	1.75	360.6	F	440	LTR	1.77	366.9	F	445	+						
													LT	1.55	266.5	F	325													LT	1.50	248.8	F	359	
													R	0.40	13.4	B	15													R	0.32	14.0	B	14	
	Northbound	T	0.50	5.4	A	43	T	0.50	5.4	A	43		T	0.50	5.4	A	43		T	0.69	6.2	A	82	T	0.70	6.3	A	86		T	0.70	6.3	A	86	
	Southbound	TR	0.88	26.5	C	352	TR	0.89	27.8	C	367		TR	0.89	27.8	C	367		TR	0.94	32.6	C	460	TR	0.94	33.7	C	464		TR	0.94	33.7	C	464	
		Intersection		98.5	F		Intersection		128.3	F			Intersection		78.9	E			Intersection		106.0	F		Intersection		108.0	F			Intersection		72.8	E		

Table MA-T6

Phase 2 No Action Construction vs Peak Construction vs Peak Construction with Mitigation Conditions Level of Service Analysis

Signalized Intersections

#	Intersection & Approach	Weekday AM Peak Hour																Weekday PM Peak Hour											
		Phase 2 No Action					Phase 2 With Action					Phase 2 With Action with Mitigation						Phase 2 No Action					Phase 2 With Action					Phase 2 With Action with Mitigation					
		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	
30	**Park Ave/E 34th St**																												
	Eastbound	T	0.73	32.3	C	315	T	0.80	36.2	D	386		T	0.80	36.2	D	386		T	1.22	145.1	F	593	T	1.56	293.0	F	706	+	T	1.56	293.0	F	706	U
		R	0.35	24.4	C	68	R	0.30	22.7	C	65		R	0.30	22.7	C	65.0		R	0.25	21.9	C	54	R	0.25	21.9	C	54		R	0.25	21.9	C	54.0	
	Westbound	T	0.89	18.8	B	296	T	0.95	21.4	C	300		T	0.95	21.4	C	300		T	1.90	433.9	F	498	T	2.06	505.9	F	509	+	T	2.06	505.9	F	509	U
		R	0.41	10.4	B	43	R	0.39	9.8	A	39		R	0.39	9.8	A	39		R	0.37	17.8	B	53	R	0.37	17.7	B	50		R	0.37	17.7	B	50	
	Northbound	T	0.63	18.4	B	274	T	0.63	18.4	B	274		T	0.63	18.4	B	274.0		T	0.77	22.0	C	374	T	0.78	22.3	C	382		T	0.78	22.3	C	382.0	
	Southbound	TR	0.80	10.3	B	88	TR	0.82	10.8	B	94		TR	0.82	10.8	B	94		TR	1.02	29.5	C	483	TR	1.02	30.3	C	487		TR	1.02	30.3	C	487	
		Intersection		17.3	B		Intersection		18.5	B			Intersection		18.5	B			Intersection		108.6	F		Intersection		146.5	F			Intersection		146.5	F		
32	**Park Ave/E 36th St**																												
	Eastbound	TR	1.34	192.7	F	414	TR	1.35	198.7	F	425	+	TR	1.35	198.7	F	425	U	TR	1.32	185.3	F	436	TR	1.42	225.7	F	481	+	TR	1.42	225.7	F	481	U
	Northbound	TR	0.94	18.3	B	204	TR	0.94	18.1	B	172		TR	0.94	18.1	B	172		TR	1.19	101.5	F	514	TR	1.23	118.5	F	522	+	TR	1.23	118.5	F	522	U
	Southbound	LT	1.08	53.1	D	403	LT	1.09	58.0	E	415		LT	1.09	58.0	E	415		LT	1.06	46.4	D	462	LT	1.05	45.6	D	464		LT	1.05	45.6	D	464	
		Intersection		111.3	F		Intersection		117.3	F			Intersection		117.3	F			Intersection		105.2	F		Intersection		125.3	F			Intersection		125.4	F		
33	**Park Ave/E 37th St**																												
	Westbound	TR	0.84	35.3	D	256	TR	0.89	35.1	D	257		TR	0.89	37.9	D	268		TR	1.34	200.2	F	537	TR	1.33	196.1	F	539							
																													T	1.04	71.1	E	384	
																													R	0.66	41.8	D	122	
	Northbound	LT	0.92	10.2	B	74	LT	0.91	9.6	A	74		LT	0.91	9.6	A	74		LT	1.13	62.4	E	78	LT	1.13	62.4	E	75		LT	1.13	62.4	E	75	
	Southbound	TR	1.01	51.0	D	492	TR	1.00	49.5	D	491		TR	1.00	49.5	D	491		TR	0.91	31.6	C	411	TR	0.91	31.3	C	406		TR	0.91	31.3	C	406	
		Intersection		33.2	C		Intersection		32.2	C			Intersection		32.2	C			Intersection		61.3	E		Intersection		58.9	E			Intersection		58.7	E		
35	**Madison Ave/E 31st St**																												
	Westbound	TR	1.41	231.6	F	705	TR	1.64	328.6	F	855	+							TR	1.79	397.6	F	947	TR	1.81	403.9	F	962	+						
													T	1.36	206.7	F	709												T	1.46	252.5	F	780	
													R	0.31	25.3	C	76												R	0.44	30.1	C	102	
	Northbound	LT	0.95	17.6	B	126	LT	0.94	17.2	B	163		LT	0.94	17.2	B	163		LT	1.24	119.3	F	421	LT	1.26	126.0	F	432	+	LT	1.23	113.0	F	423	
		Intersection		105.2	F		Intersection		157.4	F			Intersection		92.4	F			Intersection		227.4	F		Intersection		234.0	F			Intersection		154.9	F		
37	**Madison Ave/E 34th St**																												
	Eastbound	L	0.65	53.3	D	98	L	0.77	72.6	E	109	+	L	0.65	51.3	D	98		L	0.54	49.7	D	65	L	0.78	97.6	F	82	+	L	0.78	97.6	F	82	U
		T	0.90	51.5	D	428	T	1.01	73.6	E	497	+	T	0.94	55.3	E	470		T	1.06	86.4	F	552	T	1.15	120.8	F	625	+	T	1.15	120.8	F	625	U
	Westbound	T	0.85	43.6	D	398	T	0.91	51.5	D	474	+	T	0.87	44.1	D	437		T	1.10	102.4	F	574	T	1.20	138.4	F	642	+	T	1.20	138.4	F	642	U
		R	0.22	23.4	C	60	R	0.20	22.9	C	59		R	0.18	21.4	C	57.0		R	0.42	27.7	C	109	R	0.42	27.8	C	109		R	0.42	27.8	C	109.0	
	Northbound	LT	0.88	36.8	D	351	LT	0.87	35.9	D	349		LT	0.91	41.6	D	390		LT	1.22	137.7	F	650	LT	1.30	171.0	F	689	+	LT	1.30	171.0	F	689	U
		R	0.49	29.9	C	79	R	0.36	23.0	C	68		R	0.39	25.1	C	71.0		R	0.53	30.1	C	95	R	0.57	32.5	C	105		R	0.57	32.5	C	105.0	
		Intersection		41.5	D		Intersection		48.9	D			Intersection		44.5	D			Intersection		108.3	F		Intersection		139.5	F			Intersection		139.5	F		
39	**Madison Ave/E 36th St**																												
	Eastbound	LT	0.82	37.7	D	323	LT	0.84	38.4	D	338		LT	0.84	38.4	D	338		LT	0.82	37.6	D	322	LT	0.87	41.2	D	377		LT	0.87	41.2	D	377	
	Northbound	T	0.58	4.3	A	38	T	0.58	4.3	A	38		T	0.58	4.1	A	36		T	0.76	4.7	A	50	T	0.76	4.6	A	48		T	0.76	4.6	A	48	
		R	0.41	5.4	A	19	R	0.37	4.5	A	19		R	0.37	4.3	A	19		R	0.54	5.1	A	19	R	0.63	6.2	A	22		R	0.63	6.2	A	22	
		Intersection		18.3	B		Intersection		18.7	B			Intersection		18.6	B			Intersection		16.4	B		Intersection		18.1	B			Intersection		18.1	B		
44	**Fifth Ave/E 31st St**																												
	Westbound	LT	1.69	353.7	F	641	LT	1.96	471.4	F	769	+							LT	1.96	468.1	F	898	LT	2.00	486.8	F	921	+						
													L	0.40	29.0	C	82												L	0.58	35.8	D	117	
													T	1.59	306.8	F	636												T	1.54	284.2	F	731	
	Southbound	TR	0.82	23.6	C	298	TR	0.81	23.2	C	296		TR	0.81	23.2	C	296		TR	1.05	61.0	E	447	TR	1.10	79.1	E	472	+	TR	1.04	57.1	E	472	
		Intersection		124.3	F		Intersection		175.9	F			Intersection		106.6	F			Intersection		193.1	F		Intersection		203.8	F			Intersection		121.1	F		
45	**Fifth Ave/E 33rd St**																												
	Westbound	LT	0.81	47.5	D	262	LT	0.76	41.2	D	252		LT	0.76	41.2	D	252		LT	1.13	121.0	F	350	LT	1.10	111.1	F	334		LT	1.10	111.1	F	334	
	Southbound	T	0.64	3.7	A	19	T	0.65	3.7	A	18		T	0.65	3.7	A	18		T	1.00	14.9	B	20	T	1.00	13.8	B	20		T	1.00	13.8	B	20	
		R	1.60	283.2	F	5	R	0.64	5.7	A	7		R	0.64	5.7	A	7		R	1.80	373.4	F	56	R	1.79	366.8	F	54		R	1.79	366.8	F	54	
		Intersection		29.6	C		Intersection		9.4	A			Intersection		9.4	A			Intersection		60.3	E		Intersection		56.3	E			Intersection		56.3	E		
46	**Fifth Ave/E 34th St**																												
	Eastbound	T	1.26	158.8	F	318	T	1.37	204.6	F	333	+	T	1.37	209.5	F	361	U	T	1.45	236.8	F	236	T	1.58	295.0	F	197	+	T	1.58	296.6	F	289	U
		R	0.66	31.0	C	113	R	0.57	26.3	C	107		R	0.57	28.8	C	112		R	0.69	29.2	C	89	R	0.70	29.4	C	72		R	0.70	30.8	C	91	
	Westbound	T	0.72	26.6	C	349	T	0.76	28.7	C	381		T	0.76	28.7	C	381.0		T	0.93	45.0	D	548	T	1.01	61.3	E	614	+	T	1.01	61.3	E	614	U
	Southbound	L	0.13	10.9	B	5	L	0.13	10.9	B	7		L	0.13	8.4	A	5		L	0.06	10.9	B	2	L	0.06	10.9	B	2		L	0.06	10.9	B	2	
		T	2.12	521.2	F	107	T	2.21	561.1	F	486	+	T	2.21	557.2	F	426	U	T	2.10	510.5	F	111	T	2.10	509.9	F	108		T	2.10	509.9	F	108	
		R	0.30	11.1	B	5	R	0.31	11.1	B	8		R	0.31	8.6	A	6		R	0.12	11.0	B	2	R	0.15	10.9	B	2		R	0.15	10.9	B	2	
		Intersection		296.1	F		Intersection		323.1	F			Intersection		322.1	F			Intersection		315.9	F		Intersection		323.9	F			Intersection		324.3	F		
47	**Fifth Ave/E 35th St**																												
	Westbound	L	0.84	74.5	E	156	L	0.89	83.5	F	170	+	L	0.68	49.8	D	134		L	0.81	70.2	E	148	L	0.81	70.2	E	148		L	0.81	70.2	E	148	
		T	1.03	77.7	E	405	T	1.13	111.4	F	446	+	T	0.99	62.8	E	409		T	1.13	108.6	F	454	T	1.11	103.0	F	444		T	1.11	103.0	F	444	
	Southbound	T	3.05	929.9	F	537	T	2.09	498.5	F	429		T	2.30	597.7	F	466		T	3.20	995.1	F	795	T	3.30	1044.2	F	798	+	T	3.30	1044.2	F	798	U
		R	2.47	671.2	F	40	R	0.88	13.2	B	4		R	1.18	102.5	F	7		R	2.28	584.7	F	59	R	2.31	601.1	F	59	+	R	2.31	601.2	F	59	U
		Intersection		664.0	F		Intersection		355.1	F			Intersection		410.7	F			Intersection		717.3	F		Intersection		751.8	F			Intersection		751.8	F		

Table MA-T6

Phase 2 No Action Construction vs Peak Construction vs Peak Construction with Mitigation Conditions Level of Service Analysis

Signalized Intersections

#	Intersection & Approach	Weekday AM Peak Hour																Weekday PM Peak Hour															
		Phase 2 No Action					Phase 2 With Action						Phase 2 With Action with Mitigation						Phase 2 No Action					Phase 2 With Action						Phase 2 With Action with Mitigation					
		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	
48	**Fifth Ave/E 36th St**																																
	Eastbound	TR	0.85	38.6	D	261	TR	0.90	43.8	D	297		TR	0.90	43.9	D	297		TR	0.94	48.3	D	346	TR	1.00	59.9	E	381	+	TR	1.00	59.9	E	381	U
	Southbound	L	0.59	4.2	A	9	L	0.48	4.0	A	10		L	0.48	4.0	A	10		L	0.39	4.6	A	9	L	0.39	4.6	A	9		L	0.39	4.6	A	9	
		T	2.14	517.0	F	511	T	2.17	535.0	F	548	+	T	2.17	535.0	F	548	U	T	1.81	371.8	F	82	T	1.81	372.4	F	83		T	1.81	372.4	F	83	
		Intersection		327.7	F		Intersection		336.5	F			Intersection		336.5	F			Intersection		241.9	F		Intersection		242.0	F			Intersection		242.1	F		
51	**Broadway/W 31st St**																																
	Westbound	LT	1.55	296.8	F	241	LT	1.78	400.1	F	252	+	LT	1.55	295.7	F	296		LT	1.90	449.0	F	310	LT	1.96	476.8	F	320	+	LT	1.89	445.8	F	425	
	Southbound	TR	0.07	23.1	C	47	TR	0.12	23.4	C	71		TR	0.13	23.8	C	72		TR	0.13	24.9	C	84	TR	0.14	24.6	C	92		TR	0.15	24.7	C	92	
		Intersection		278.7	F		Intersection		365.7	F			Intersection		270.8	F			Intersection		413.0	F		Intersection		436.3	F			Intersection		408.0	F		
52	**Broadway/W 32nd St**																																
	Eastbound	TR	0.39	12.1	B	126	TR	0.50	12.7	B	141		TR	0.50	12.7	B	143		TR	0.51	15.7	B	184	TR	0.54	15.0	B	179		TR	0.54	14.7	B	179	
		Intersection		12.1	B		Intersection		12.7	B			Intersection		12.7	B			Intersection		15.7	B		Intersection		15.0	B			Intersection		14.7	B		
54	**Sixth Ave/W 30th St**																																
	Eastbound	LT	1.56	285.7	F	212	LT	1.67	330.6	F	343	+	LT	1.55	277.5	F	323		LT	1.84	410.2	F	162	LT	1.99	478.0	F	145	+	LT	1.80	387.8	F	133	
	Northbound	TR	0.71	19.3	B	239	TR	0.71	19.3	B	241		TR	0.74	21.4	C	254.0		TR	0.83	22.8	C	306	TR	0.83	22.8	C	306		TR	0.89	28.0	C	331.0	
		Intersection		96.1	F		Intersection		112.1	F			Intersection		97.7	F			Intersection		143.6	F		Intersection		171.4	F			Intersection		145.5	F		
55	**Sixth Ave/W 31st St**																																
	Westbound	T	0.93	25.1	C	60	T	2.10	517.7	F	200	+	T	2.10	516.1	F	251	U	T	1.27	148.3	F	85	T	2.51	705.8	F	251	+	T	2.51	705.2	F	265	U
		R	0.46	19.8	B	12	R	0.54	20.6	C	17		R	0.54	18.5	B	17		R	0.62	23.6	C	17	R	0.73	25.3	C	17		R	0.73	24.7	C	17	
	Northbound	L	1.55	281.5	F	154	L	2.82	853.0	F	231	+	L	2.82	852.4	F	221	U	L	2.20	561.0	F	209	L	2.45	672.7	F	222	+	L	2.45	671.4	F	205	U
		T	0.77	6.5	A	29	T	0.80	7.9	A	34		T	0.80	8.0	A	34		T	0.78	4.2	A	27	T	0.79	4.8	A	31		T	0.80	4.9	A	31	
		Intersection		31.3	C		Intersection		189.7	F			Intersection		189.3	F			Intersection		93.7	F		Intersection		247.1	F			Intersection		246.9	F		
56	**Sixth Ave/W 32nd St**																																
	Eastbound	LT	0.70	45.0	D	202	LT	0.80	50.0	D	257	+	LT	0.77	47.0	D	249		LT	0.69	43.1	D	172	LT	0.74	45.7	D	233		LT	0.74	46.0	D	233	
	Northbound	TR	0.73	5.5	A	47	TR	0.75	6.2	A	67		TR	0.77	6.5	A	74		TR	0.75	6.0	A	63	TR	0.76	6.1	A	64		TR	0.76	5.3	A	64	
		Intersection		10.3	B		Intersection		12.3	B			Intersection		12.2	B			Intersection		10.6	B		Intersection		11.3	B			Intersection		10.6	B		
57	**Sixth Ave/W 33rd St**																																
	Westbound	TR	0.63	27.1	C	102	TR	0.75	37.5	D	245		TR	0.75	37.5	D	245		TR	0.74	30.7	C	93	TR	0.70	29.8	C	88		TR	0.70	29.8	C	89	
	Northbound	T	0.58	1.8	A	14	T	0.60	1.8	A	15		T	0.60	1.8	A	15		T	0.54	1.6	A	13	T	0.55	1.6	A	13		T	0.55	1.6	A	13	
		Intersection		5.2	A		Intersection		7.5	A			Intersection		7.5	A			Intersection		6.3	A		Intersection		5.9	A			Intersection		5.9	A		
58	**Sixth Ave/W 34th St**																																
	Eastbound	T	1.03	73.4	E	555	T	1.10	95.4	F	606	+	T	1.04	73.8	E	586		T	1.41	226.3	F	758	T	1.76	377.3	F	860	+	T	1.38	209.5	F	790	
	Westbound	T	0.86	23.3	C	415	T	0.93	29.7	C	465		T	0.87	21.8	C	444		T	1.15	89.0	F	465	T	1.26	132.4	F	479	+	T	1.16	86.3	F	449	
		R	0.98	99.8	F	98	R	0.98	97.2	F	90		R	0.98	97.1	F	90		R	0.73	41.9	D	36	R	0.73	38.0	D	34		R	0.73	38.0	D	34	
	Northbound	T	0.60	1.6	A	7	T	0.61	1.6	A	6		T	0.64	1.8	A	7.0		T	0.58	2.3	A	15	T	0.59	2.4	A	15		T	0.63	3.9	A	27.0	
		Intersection		24.5	C		Intersection		31.0	C			Intersection		24.7	C			Intersection		76.6	E		Intersection		125.8	F			Intersection		74.3	E		
59	**Sixth Ave/W 35th St**																																
	Westbound	TR	1.43	209.6	F	307	TR	1.42	202.4	F	363		TR	1.42	204.6	F	398		TR	1.59	279.1	F	351	TR	1.58	274.3	F	349		TR	1.58	274.3	F	349	
	Northbound	LT	0.69	5.5	A	59	LT	0.71	5.8	A	57		LT	0.71	5.2	A	50		LT	0.65	5.3	A	52	LT	0.67	5.5	A	52		LT	0.67	4.5	A	39.0	
		Intersection		56.2	E		Intersection		55.4	E			Intersection		55.5	E			Intersection		84.4	F		Intersection		81.5	F			Intersection		80.8	F		
66	**Seventh Ave/W 30th St**																																
	Eastbound	T	0.59	21.3	C	79	T	0.72	21.7	C	78		T	0.72	21.6	C	81		T	1.40	208.5	F	161	T	1.62	306.1	F	202	+	T	1.62	306.1	F	202	U
		R	0.81	25.8	C	64	R	0.75	22.7	C	46		R	0.75	22.7	C	49		R	0.95	35.2	D	56	R	1.00	43.0	D	56		R	1.00	43.0	D	56	
	Southbound	L	5.69	2132.7	F	460	L	3.38	1088.2	F	395		L	3.38	1087.9	F	390		L	6.44	2458.7	F	445	L	7.36	2871.6	F	475	+	L	7.36	2871.6	F	475	U
		T	1.07	47.8	D	323	T	1.09	52.6	D	312		T	1.09	52.4	D	308		T	1.15	74.4	E	113	T	1.15	74.7	E	150		T	1.15	74.7	E	150	
		Intersection		456.0	F		Intersection		247.2	F			Intersection		247.0	F			Intersection		557.8	F		Intersection		667.9	F			Intersection		667.9	F		
67	**Seventh Ave/W 31st St**																																
	Westbound	L	0.32	16.8	B	61	L	0.30	16.6	B	23		L	0.30	16.6	B	23		L	0.50	19.4	B	72	L	0.66	22.1	C	60		L	0.66	22.1	C	60	
		T	1.01	41.1	D	295	T	1.11	81.0	F	130	+	T	1.11	81.0	F	130	U	T	2.53	716.8	F	434	T	2.73	808.5	F	269	+	T	2.73	808.5	F	269	U
	Southbound	T	0.95	14.8	B	391	T	0.99	21.3	C	415		T	0.99	22.5	C	418		T	1.18	90.9	F	494	T	1.18	92.3	F	465		T	1.18	91.6	F	465	
		R	0.73	29.3	C	100	R	0.79	34.2	C	124		R	0.79	33.6	C	124		R	1.08	85.0	F	222	R	1.16	110.8	F	221	+	R	1.16	110.4	F	221	U
		Intersection		21.7	C		Intersection		36.0	D			Intersection		36.7	D			Intersection		244.0	F		Intersection		278.3	F			Intersection		277.8	F		
68	**Seventh Ave/W 32nd St**																																
	Southbound	L	0.59	7.1	A	20	L	0.68	7.2	A	25		L	0.68	7.2	A	25		L	0.59	5.9	A	21	L	0.68	7.9	A	34		L	0.68	7.9	A	33	
		T	0.77	5.9	A	52	T	0.78	5.4	A	45		T	0.78	5.5	A	45		T	0.84	6.8	A	75	T	0.91	10.0	B	139		T	0.91	10.5	B	139	
		Intersection		6.1	A		Intersection		5.7	A			Intersection		5.8	A			Intersection		6.7	A		Intersection		9.8	A			Intersection		10.1	B		
69	**Seventh Ave/W 33rd St**																																
	Westbound	L	1.47	256.2	F	283	L	1.49	256.5	F	225		L	1.49	256.5	F	225		L	1.42	228.5	F	268	L	1.66	338.3	F	362	+	L	1.66	338.4	F	361	U
	Southbound	T	0.77	2.0	A	1	T	0.83	2.7	A	1		T	0.83	2.7	A	1		T	0.84	3.7	A	9	T	0.82	3.4	A	9		T	0.82	3.7	A	8	
		Intersection		34.4	C		Intersection		33.3	C			Intersection		33.2	C			Intersection		32.9	C		Intersection		54.2	D			Intersection		54.4	D		

Table MA-T6

Phase 2 No Action Construction vs Peak Construction vs Peak Construction with Mitigation Conditions Level of Service Analysis

Signalized Intersections

#	Intersection & Approach	Weekday AM Peak Hour																Weekday PM Peak Hour											
		Phase 2 No Action					Phase 2 With Action						Phase 2 With Action with Mitigation					Phase 2 No Action					Phase 2 With Action						Phase 2 With Action with Mitigation					
		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	
70	**Seventh Ave/W 34th St**																												
	Eastbound	TR	1.04	51.7	D	373	TR	1.11	72.5	E	365	+	TR	1.05	46.0	D	348		TR	1.33	168.1	F	504	TR	1.41	206.2	F	491	+	TR	1.30	154.5	F	460	
	Westbound	T	0.85	39.1	D	438	T	0.91	46.5	D	487	+	T	0.86	38.6	D	467		T	1.50	266.7	F	647	T	1.65	331.6	F	718	+	T	1.45	240.6	F	687	
	Southbound	T	0.83	8.7	A	101	T	0.89	10.9	B	110		T	0.93	15.1	B	172		T	0.86	9.1	A	95	T	0.84	9.6	A	94		T	0.90	14.3	B	116	
		Intersection		24.0	C		Intersection		31.2	C			Intersection		26.4	C			Intersection		97.4	F		Intersection		126.0	F			Intersection		96.6	F		
71	**Seventh Ave/W 35th St**																												
	Westbound	L	0.64	38.7	D	166	L	0.67	38.2	D	197		L	0.67	38.2	D	197		L	0.66	39.2	D	180	L	0.65	38.5	D	175		L	0.65	38.5	D	175	
		T	0.57	31.4	C	178	T	1.11	123.7	F	282	+	T	1.11	123.7	F	282	U	T	0.75	38.1	D	321	T	1.45	252.1	F	466	+	T	1.45	252.1	F	466	U
	Southbound	TR	0.88	6.3	A	30	TR	0.92	8.4	A	40		TR	0.92	8.4	A	40		TR	1.05	27.9	C	35	TR	1.03	21.4	C	38		TR	1.03	21.4	C	38	
		Intersection		12.3	B		Intersection		25.8	C			Intersection		25.8	C			Intersection		30.4	C		Intersection		60.7	E			Intersection		60.7	E		
72	**Seventh Ave/W 36th St**																												
	Eastbound	TR	0.76	29.9	C	152	TR	0.90	26.0	C	112		TR	0.90	26.0	C	112		TR	1.02	39.1	D	202	TR	1.07	62.1	E	123	+	TR	1.07	62.1	E	123	U
	Southbound	L	0.68	13.0	B	57	L	0.71	14.1	B	64		L	0.71	14.1	B	64		L	0.85	17.5	B	82	L	0.85	18.4	B	85		L	0.85	18.4	B	85	
		T	0.87	13.4	B	192	T	0.92	16.5	B	273		T	0.92	16.5	B	273		T	1.11	66.3	E	424	T	1.09	56.4	E	409		T	1.09	56.4	E	409	
		Intersection		17.4	B		Intersection		18.8	B			Intersection		18.8	B			Intersection		53.4	D		Intersection		53.9	D			Intersection		53.9	D		
76	**Eighth Ave/W 26th St**																												
	Eastbound	LT	1.20	134.0	F	350	LT	1.20	133.9	F	350		LT	1.20	133.9	F	350		LT	1.18	103.5	F	79	LT	1.23	125.3	F	88	+	LT	1.18	103.9	F	87	
	Northbound	TR	0.68	18.1	B	215	TR	0.70	18.5	B	225		TR	0.70	18.5	B	225.0		TR	0.78	20.5	C	267	TR	0.79	20.8	C	273		TR	0.80	22.0	C	280.0	
		Intersection		43.9	D		Intersection		44.0	D			Intersection		44.0	D			Intersection		36.8	D		Intersection		41.7	D			Intersection		38.4	D		
78	**Eighth Ave/W 30th St**																												
	Eastbound	L	1.90	433.1	F	544	L	1.91	436.1	F	515	+	L	1.83	401.6	F	566		L	2.18	560.8	F	592	L	2.36	644.4	F	599	+	L	2.36	644.4	F	599	U
		T	1.29	161.5	F	306	T	1.58	289.4	F	373	+	T	1.54	269.9	F	412	U	T	1.65	320.8	F	372	T	1.73	353.6	F	381	+	T	1.73	353.6	F	381	U
	Northbound	TR	0.68	8.5	A	42	TR	0.69	8.6	A	43		TR	0.71	10.3	B	46		TR	0.82	10.5	B	59	TR	0.84	10.7	B	67		TR	0.84	11.8	B	89	
		Intersection		139.2	F		Intersection		166.3	F			Intersection		155.2	F			Intersection		200.5	F		Intersection		227.4	F			Intersection		228.0	F		
79	**Eighth Ave/W 31st St**																												
	Westbound	T	0.42	21.8	C	85	T	0.49	22.1	C	92		T	0.49	22.1	C	93		T	0.61	19.4	B	55	T	0.69	20.2	C	58		T	0.69	20.2	C	58	
		R	1.45	243.7	F	251	R	1.22	131.8	F	212		R	1.22	131.8	F	212		R	1.89	429.5	F	98	R	2.00	480.7	F	88	+	R	2.00	480.7	F	88	U
	Northbound	L	0.70	27.9	C	107	L	0.73	28.6	C	111		L	0.73	28.8	C	109		L	1.29	161.0	F	222	L	1.32	172.0	F	216	+	L	1.32	172.0	F	216	U
		T	1.00	22.8	C	320	T	1.04	38.5	D	345		T	1.04	38.8	D	353		T	1.15	81.5	F	403	T	1.17	94.4	F	409	+	T	1.17	94.4	F	409	U
		Intersection		51.0	D		Intersection		47.9	D			Intersection		48.1	D			Intersection		126.7	F		Intersection		142.9	F			Intersection		143.0	F		
80	**Eighth Ave/W 33rd St**																												
	Westbound	TR	0.19	19.3	B	47	TR	0.22	19.9	B	55		TR	0.24	21.5	C	57.0		TR	0.36	21.7	C	117	TR	0.43	23.0	C	135		TR	0.45	25.0	C	140.0	
	Northbound	L	1.44	219.5	F	293	L	1.47	230.3	F	290	+	L	1.31	162.3	F	279		L	2.02	477.6	F	391	L	2.04	487.1	F	380	+	L	1.82	391.8	F	369	
		TR	1.24	119.8	F	365	TR	1.29	141.2	F	375	+	TR	1.22	106.3	F	358		TR	1.32	154.3	F	311	TR	1.37	176.6	F	315	+	TR	1.31	148.5	F	193	
		Intersection		136.7	F		Intersection		154.4	F			Intersection		114.2	F			Intersection		222.3	F		Intersection		236.9	F			Intersection		195.5	F		
81	**Eighth Ave/W 34th St**																												
	Eastbound	T	0.97	47.0	D	271	T	1.04	66.1	E	278	+	T	1.04	62.2	E	278	U	T	1.08	50.4	D	79	T	1.15	83.5	F	85	+	T	1.15	83.5	F	85	U
	Westbound	T	0.82	28.4	C	264	T	0.69	20.3	C	270		T	0.90	36.1	D	299		T	0.78	20.3	C	187	T	0.88	22.8	C	193		T	0.88	24.3	C	217	
		R	0.51	18.3	B	112	R	0.48	16.4	B	93		R	0.48	18.1	B	104		R	0.47	15.5	B	45	R	0.48	15.5	B	40		R	0.48	16.9	B	50	
	Northbound	L	0.78	17.0	B	47	L	0.79	17.5	B	47		L	0.79	18.4	B	49		L	0.60	13.9	B	42	L	0.68	15.0	B	49		L	0.68	17.8	B	52	
		TR	1.18	82.0	F	4	TR	1.25	114.0	F	6	+	TR	1.25	114.7	F	27	U	TR	1.43	198.7	F	437	TR	1.51	235.4	F	456	+	TR	1.51	238.3	F	492	U
		Intersection		59.5	E		Intersection		79.0	E			Intersection		81.1	F			Intersection		124.6	F		Intersection		150.2	F			Intersection		152.2	F		
82	**Eighth Ave/W 36th St**																												
	Eastbound	L	0.72	49.6	D	101	L	0.67	45.6	D	98		L	0.67	45.6	D	98		L	1.06	91.3	F	198	L	1.08	94.9	F	196	+	L	1.08	94.9	F	196	U
		T	0.65	35.5	D	184	T	1.43	246.6	F	367	+	T	1.43	246.6	F	367	U	T	0.76	28.8	C	251	T	1.48	252.1	F	329	+	T	1.48	252.1	F	329	U
	Northbound	T	1.40	210.0	F	641	T	1.60	296.9	F	686	+	T	1.77	372.7	F	711	U	T	1.99	472.6	F	777	T	2.02	485.3	F	791	+	T	2.02	485.3	F	791	U
		R	0.81	42.1	D	192	R	0.95	66.5	E	238	+	R	0.95	66.5	E	238	U	R	1.38	214.0	F	405	R	1.50	263.7	F	444	+	R	1.50	263.7	F	444	U
		Intersection		152.3	F		Intersection		241.7	F			Intersection		289.9	F			Intersection		327.8	F		Intersection		376.0	F			Intersection		376.0	F		
87	**Ninth Ave/W 30th St**																												
	Eastbound	T	0.96	60.4	E	284	T	1.11	102.0	F	345	+	T	0.98	60.1	E	319		T	1.10	96.7	F	347	T	1.13	109.2	F	361	+	T	1.13	109.2	F	361	U
		R	0.76	40.0	D	171	R	0.71	36.2	D	155		R	0.62	30.2	C	146		R	0.73	40.5	D	119	R	0.73	40.8	D	121		R	0.73	40.8	D	121	
	Southbound	L	0.79	7.1	A	12	L	0.70	4.3	A	13		L	0.77	7.3	A	23		L	1.07	40.1	D	28	L	1.09	50.4	D	28	+	L	1.09	50.4	D	28	U
		T	0.57	1.2	A	11	T	0.57	1.3	A	12		T	0.61	2.8	A	26		T	0.76	2.0	A	23	T	0.76	2.1	A	23		T	0.76	2.1	A	23	
		R	0.11	1.1	A	1	R	0.10	1.0	A	1		R	0.11	2.9	A	2		R	0.18	1.7	A	3	R	0.20	1.7	A	3		R	0.20	1.7	A	3	
		Intersection		21.7	C		Intersection		33.1	C			Intersection		22.3	C			Intersection		38.4	D		Intersection		43.8	D			Intersection		43.8	D		
88	**Ninth Ave/W 31st St**																												
	Westbound	LT	0.87	49.1	D	335	LT	0.93	58.1	E	375	+	LT	0.91	52.8	D	366		LT	1.45	229.8	F	617	LT	1.52	261.2	F	666	+	LT	1.52	261.3	F	666	U
	Southbound	TR	0.95	16.0	B	394	TR	0.96	18.0	B	396		TR	0.98	20.9	C	404		TR	1.08	51.9	D	444	TR	1.09	55.6	E	457		TR	1.09	55.6	E	457	
		Intersection		23.0	C		Intersection		26.8	C			Intersection		28.0	C			Intersection		107.1	F		Intersection		121.6	F			Intersection		121.6	F		

Table MA-T6

Phase 2 No Action Construction vs Peak Construction vs Peak Construction with Mitigation Conditions Level of Service Analysis

Signalized Intersections

#	Intersection & Approach	Weekday AM Peak Hour																Weekday PM Peak Hour											
		Phase 2 No Action					Phase 2 With Action						Phase 2 With Action with Mitigation					Phase 2 No Action					Phase 2 With Action						Phase 2 With Action with Mitigation					
		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	
90	**Ninth Ave/W 34th St**																												
	Eastbound	T	1.36	209.3	F	483	T	1.46	248.5	F	538	+	T	1.35	197.5	F	521	T	1.56	285.8	F	610	T	1.65	325.3	F	574	+	T	1.65	326.6	F	650	U
		R	1.08	105.7	F	270	R	0.93	61.0	E	242		R	0.84	43.7	D	225	R	1.55	287.1	F	418	R	1.58	296.0	F	370	+	R	1.58	298.2	F	417	U
	Westbound	T	0.86	22.4	C	393	T	0.93	32.4	C	495		T	0.85	17.1	B	260	T	1.64	335.2	F	717	T	2.04	513.5	F	829	+	T	2.04	513.6	F	830	U
	Southbound	L	0.66	54.7	D	137	L	0.72	59.6	E	153		L	0.72	59.6	E	153	L	0.44	43.9	D	71	L	0.53	47.9	D	82		L	0.53	47.9	D	82	
		TR	0.65	18.3	B	206	TR	0.86	25.9	C	258		TR	0.93	33.3	C	304	TR	0.75	20.3	C	251	TR	0.96	35.2	D	346		TR	0.96	35.2	D	346	
		Intersection		58.4	E		Intersection		67.8	E			Intersection		59.0	E		Intersection		160.7	F		Intersection		217.6	F			Intersection		218.1	F		
91	**Ninth Ave/W 36th St**																												
	Eastbound	TR	0.78	35.5	D	206	TR	0.81	36.3	D	225		TR	0.81	36.3	D	225	TR	0.96	51.1	D	358	TR	0.97	53.9	D	366		TR	0.97	53.9	D	366	
	Southbound	L	0.33	13.3	B	70	L	0.27	12.0	B	65		L	0.27	12.0	B	65	L	0.22	11.5	B	50	L	0.23	11.6	B	51		L	0.23	11.6	B	51	
		T	0.74	18.1	B	239	T	0.75	18.4	B	246		T	0.75	18.4	B	246	T	0.57	14.3	B	163	T	0.58	14.5	B	168		T	0.58	14.5	B	168	
		R	0.10	5.5	A	25	R	0.10	5.5	A	25		R	0.10	5.5	A	25	R	0.89	20.2	C	523	R	0.89	20.2	C	523		R	0.89	20.2	C	523	
		Intersection		21.5	C		Intersection		22.2	C			Intersection		22.2	C		Intersection		25.5	C		Intersection		26.3	C			Intersection		26.3	C		
93	**Dyer Ave/W 30th St**																												
	Eastbound	L	0.09	5.2	A	12	L	0.09	5.1	A	12		L	0.09	5.1	A	12	L	0.43	10.6	B	97	L	0.44	10.7	B	97		L	0.44	10.7	B	97	
	Westbound	R	0.07	2.4	A	5	R	0.07	2.5	A	6		R	0.07	3.0	A	8	R	0.18	12.5	B	50	R	0.20	12.7	B	54		R	0.20	12.7	B	54	
	Southbound	T	0.43	16.5	B	129	T	0.49	17.1	B	147		T	0.49	17.1	B	147	T	0.19	30.9	C	84	T	0.20	31.0	C	86		T	0.20	31.0	C	86	
		Intersection		13.0	B		Intersection		13.8	B			Intersection		13.8	B		Intersection		14.7	B		Intersection		14.9	B			Intersection		14.9	B		
94	**Dyer Ave/W 31st St**																												
	Westbound	LT	0.58	10.9	B	36	LT	0.58	10.4	B	31		LT	0.58	10.5	B	38	LT	0.89	38.1	D	111	LT	0.87	37.6	D	104		LT	0.87	37.6	D	104	
		R	0.40	9.2	A	18	R	0.44	9.1	A	19		R	0.44	9.0	A	24	R	0.80	36.3	D	80	R	0.95	43.4	D	90		R	0.95	43.4	D	90	
	Northbound	LT	0.11	22.1	C	69	LT	0.11	21.9	C	70		LT	0.11	22.0	C	70	LT	0.52	4.3	A	21	LT	0.53	4.8	A	23		LT	0.53	4.8	A	23	
	Southbound	TR	0.27	8.9	A	82	TR	0.30	9.2	A	94		TR	0.30	9.2	A	94	TR	0.14	8.0	A	40	TR	0.14	8.0	A	42		TR	0.14	8.0	A	42	
		Intersection		11.8	B		Intersection		11.6	B			Intersection		11.6	B		Intersection		17.4	B		Intersection		19.1	B			Intersection		19.1	B		
95	**Dyer Ave/W 34th St**																												
	Eastbound	T	0.65	24.9	C	263	T	0.70	26.6	C	305		T	0.70	28.5	C	299	T	0.94	22.7	C	256	T	1.11	74.6	E	314	+	T	0.95	25.2	C	283	
	Westbound	T	0.67	33.2	C	292	T	0.72	33.7	C	281		T	0.72	30.5	C	281	T	0.90	13.2	B	80	T	0.99	19.8	B	66		T	0.93	13.3	B	61	
		R	0.14	3.3	A	15	R	0.15	3.8	A	16		R	0.15	4.9	A	23	R	0.17	13.3	B	30	R	0.18	13.6	B	25		R	0.18	12.4	B	23	
	Southbound	LR	0.88	62.3	E	157	LR	0.83	56.1	E	152		LR	0.83	56.1	E	152	LR	0.68	43.6	D	124	LR	0.69	43.9	D	126		LR	0.69	43.9	D	126.0	
		R	1.51	313.5	F	215	R	1.05	131.5	F	190		R	1.05	131.5	F	190	R	1.30	226.9	F	202	R	1.30	226.9	F	202		R	1.30	226.9	F	202	
		Intersection		62.5	E		Intersection		43.2	D			Intersection		42.7	D		Intersection		36.2	D		Intersection		55.0	E			Intersection		35.9	D		
98	**Tenth Ave/W 34th St**																												
	Eastbound	L	1.46	298.0	F	161	L	1.62	369.3	F	166	+	L	1.31	232.8	F	156	L	2.54	766.7	F	218	L	3.43	1172.6	F	238	+	L	3.43	1172.6	F	238	U
		T	0.61	30.1	C	195	T	0.66	32.2	C	216		T	0.61	27.7	C	204.0	T	0.78	37.8	D	301	T	0.84	43.0	D	355		T	0.84	43.0	D	355	
	Westbound	T	1.22	148.3	F	408	T	1.31	187.4	F	486	+	T	0.97	58.6	E	410	T	1.73	367.0	F	434	T	1.96	465.1	F	376	+	T	1.92	446.9	F	491	U
		R	0.77	42.3	D	190	R	0.73	40.4	D	195		R	0.66	34.0	C	195	R	1.21	136.1	F	352	R	1.23	136.3	F	315		R	1.23	140.3	F	344	U
	Northbound	LT	0.72	5.7	A	45	LT	0.71	5.6	A	45		LT	0.77	8.3	A	57.0	LT	1.05	35.2	D	445	LT	1.05	35.0	C	443		LT	1.05	35.0	C	443	
		R	0.83	25.7	C	61	R	0.78	19.9	B	19		R	0.86	30.5	C	127	R	1.88	407.0	F	366	R	1.90	415.5	F	371	+	R	1.90	415.5	F	371	U
		Intersection		44.9	D		Intersection		54.1	D			Intersection		30.0	C		Intersection		145.5	F		Intersection		176.4	F			Intersection		174.7	F		
100	**Eleventh Ave/W 34th St**																												
	Eastbound	L	0.75	44.2	D	89	L	0.80	50.9	D	101	+	L	0.77	45.4	D	92	L	1.84	419.5	F	400	L	1.84	419.5	F	399		L	1.84	418.0	F	400	
		T	0.59	33.0	C	206	T	0.67	36.6	D	232		T	0.62	33.3	C	224.0	T	2.18	577.7	F	595	T	2.33	643.8	F	637	+	T	2.01	499.3	F	615	
		R	1.22	178.0	F	218	R	1.24	184.9	F	219	+	R	1.16	155.5	F	214	R	1.66	360.3	F	296	R	1.66	360.3	F	296		R	1.36	226.1	F	278	
	Westbound	L	0.83	46.5	D	170	L	0.87	52.5	D	181	+	L	0.84	47.1	D	170	L	1.24	166.4	F	245	L	1.25	168.5	F	245		L	1.25	166.3	F	246	
		TR	0.97	71.4	E	339	TR	1.05	92.3	F	380	+	TR	1.01	80.1	F	372	U	TR	1.48	261.9	F	557	TR	1.65	335.7	F	637	+	TR	1.45	243.2	F	605	
	Southbound	LTR	0.95	37.3	D	392	LTR	0.93	35.0	C	386		LTR	0.96	39.4	D	395		LTR	0.57	20.1	C	148	LTR	0.57	20.1	C	149		LTR	0.64	24.0	C	163.0	
		Intersection		52.1	D		Intersection		55.6	E			Intersection		53.2	D		Intersection		265.7	F		Intersection		297.9	F			Intersection		240.3	F		
104	**Route 9A/W 34th St**																												
	Westbound	LR	1.09	136.9	F	244	LR	1.04	118.7	F	247		LR	1.04	118.7	F	247		LR	1.23	189.4	F	304	LR	1.42	266.2	F	346	+	LR	1.42	266.2	F	346	U
		R	0.36	38.3	D	182	R	0.38	38.8	D	193		R	0.38	38.8	D	193.0		R	0.48	50.2	D	235	R	0.55	52.7	D	272		R	0.55	52.7	D	272.0	
	Northbound	T	0.87	37.3	D	483	T	1.16	115.4	F	878	+	T	1.16	115.4	F	878	U	T	1.05	35.1	D	407	T	1.40	191.9	F	1127	+	T	1.40	191.9	F	1127	U
		R	0.71	37.7	D	278	R	0.68	36.6	D	277		R	0.68	36.6	D	277.0		R	0.87	12.8	B	154	R	0.87	12.8	B	154		R	0.87	12.8	B	154	
	Southbound	L	0.46	60.3	E	143	L	0.51	61.6	E	159		L	0.51	61.6	E	159.0		L	1.32	233.0	F	356	L	1.42	276.4	F	389	+	L	1.42	276.4	F	389	U
		T	0.72	12.9	B	535	T	0.73	13.2	B	553		T	0.73	13.2	B	553.0		T	1.15	94.2	F	1551	T	1.21	119.1	F	1609	+	T	1.21	119.1	F	1609	U
		Intersection		33.0	C		Intersection		63.1	E			Intersection		63.1	E		Intersection		73.2	E		Intersection		154.5	F			Intersection		154.5	F		
105	**Route 9A/W 40th St**																												
	Westbound	R	0.04	41.0	D	26	R	0.04	41.0	D	26		R	0.04	41.0	D	26.0		R	0.06	48.2	D	30	R	0.06	48.2	D	30		R	0.06	49.1	D	30.0	
	Northbound	L	0.16	43.1	D	71	L	0.16	43.1	D	71		L	0.16	43.1	D	71.0		L	0.20	50.8	D	83	L	0.20	50.8	D	83		L	0.20	51.8	D	84.0	
		TR	0.71	18.2	B	467	TR	0.72	18.2	B	473		TR	0.72	18.2	B	473.0		TR	1.06	54.4	D	1352	TR	1.07	60.1	E	1386	+	TR	1.06	55.6	E	1375	
	Southbound	T	0.90	26.8	C	900	T	0.92	28.6	C	949		T	0.92	28.6	C	949.0		T	0.97	29.0	C	1117	T	0.98	31.0	C	1159		T	0.97	28.7	C	1128.0	
		R	3.58	1341.2	F	197	R	4.86	1946.3	F	207	+	R	3.58	1338.7	F	196		R	0.46	56.9	E	164	R	0.46	56.9	E	164		R	0.44	55.5	E	162.0	
		Intersection		39.4	D		Intersection		47.5	D			Intersection		40.1	D		Intersection		43.4	D		Intersection		47.4	D			Intersection		43.9	D		

Table MA-T6

Phase 2 No Action Construction vs Peak Construction vs Peak Construction with Mitigation Conditions Level of Service Analysis

Signalized Intersections

#	Intersection & Approach	Weekday AM Peak Hour																Weekday PM Peak Hour																
		Phase 2 No Action					Phase 2 With Action						Phase 2 With Action with Mitigation					Phase 2 No Action					Phase 2 With Action						Phase 2 With Action with Mitigation					
		Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	95th Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	
Route 9A/W 42nd St																																		
106	Eastbound	LTR	0.04	46.7	D	17	LTR	0.03	46.2	D	17		LTR	0.03	46.2	D	17	LTR	0.05	46.6	D	20	LTR	0.05	46.6	D	20		LTR	0.05	47.5	D	20	
	Westbound	L	0.41	53.8	D	93	L	0.32	51.1	D	90		L	0.32	51.1	D	90	L	0.46	55.4	E	95	L	0.46	55.4	E	95		L	0.48	56.8	E	96	
	Northbound	R	0.43	31.0	C	183	R	0.43	31.0	C	185		R	0.43	31.0	C	185	R	0.27	36.2	D	107	R	0.29	36.5	D	114		R	0.29	37.2	D	115	
		T	1.00	57.4	E	831	T	1.01	60.1	E	847		T	1.01	60.1	E	847	T	1.19	122.0	F	1365	T	1.21	130.2	F	1400	+	T	1.19	123.2	F	1388	
	Southbound	R	0.43	31.0	C	169	R	0.37	29.1	C	162		R	0.37	29.1	C	162	R	0.35	21.5	C	139	R	0.35	21.5	C	139		R	0.35	20.9	C	137	
		L	0.42	52.9	D	178	L	0.44	53.3	D	187		L	0.44	53.3	D	187	L	0.99	102.9	F	322	L	0.94	92.1	F	296		L	0.94	92.1	F	296	
		T	0.89	30.7	C	813	T	0.92	32.7	C	861		T	0.92	32.7	C	861	T	1.16	105.0	F	1492	T	1.17	110.8	F	1520	+	T	1.16	104.9	F	1508	
		Intersection		43.6	D		Intersection		45.5	D			Intersection		45.5	D		Intersection		108.1	F		Intersection		113.7	F			Intersection		108.1	F		
Route 9A/W 54th St																																		
107	Northbound	TR	0.72	15.4	B	479	TR	0.73	15.5	B	487		TR	0.73	15.5	B	487	TR	1.03	46.7	D	1273	TR	1.05	52.8	D	1313	+	TR	1.04	48.6	D	1301	
	Southbound	L	0.23	48.0	D	112	L	0.23	48.0	D	112		L	0.23	48.0	D	112	L	0.30	49.4	D	141	L	0.30	49.4	D	141		L	0.31	50.4	D	142	
		T	0.77	16.5	B	596	T	0.79	17.2	B	629		T	0.79	17.2	B	629	T	0.71	15.0	B	516	T	0.72	15.1	B	522		T	0.71	14.5	B	509	
	Southeastbound	R	0.63	15.1	B	419	R	0.63	15.1	B	419		R	0.63	15.1	B	419	R	0.45	11.5	B	247	R	0.45	11.5	B	247		R	0.44	11.0	B	241	
		Intersection		16.3	B		Intersection		16.7	B			Intersection		16.7	B		Intersection		32.0	C		Intersection		35.3	D			Intersection		32.9	C		
Route 9A/W 56th St																																		
108	Northbound	T	0.96	50.0	D	773	T	0.97	52.1	D	805		T	0.97	52.1	D	805	T	1.26	141.8	F	1392	T	1.28	152.2	F	1435	+	T	1.28	152.2	F	1435	U
	Southbound	L	0.80	39.0	D	614	L	0.80	39.0	D	614		L	0.80	39.0	D	614	L	0.91	71.9	E	460	L	0.91	71.9	E	460		L	0.91	71.9	E	460	
		T	0.52	0.3	A	0	T	0.53	0.3	A	0		T	0.53	0.3	A	0	T	0.44	0.2	A	0	T	0.45	0.2	A	0		T	0.45	0.2	A	0	
		Intersection		25.5	C		Intersection		26.1	C			Intersection		26.1	C		Intersection		86.6	F		Intersection		92.9	F			Intersection		92.9	F		
Route 9A/W 56th St Service Road																																		
108	Eastbound	T	0.87	11.1	B	65	T	0.87	11.1	B	65		T	0.87	11.1	B	65	T	1.21	115.1	F	694	T	1.21	115.1	F	694		T	1.21	115.1	F	694	
	Northbound	TR	0.27	26.6	C	131	TR	0.27	26.6	C	131		TR	0.27	26.6	C	131	TR	0.26	10.0	A	121	TR	0.26	10.0	A	121		TR	0.26	10.0	A	121	
		Intersection		16.0	B		Intersection		16.0	B			Intersection		16.0	B		Intersection		60.5	E		Intersection		60.5	E			Intersection		60.5	E		

Notes: L = Left Turn, T= Through, R = Right Turn, DefL = Defacto Left Turn; LOS = Level of Service. The LOS results were reported using the HCM 2000 methodology. + = denotes significant adverse impact. U = denotes unmitigable significant adverse impact. **This table has been revised for the FEIS.**

Table MA-T7

Phase 2 No Action Construction vs Peak Construction vs Peak Construction with Mitigation Conditions Level of Service Analysis

Unsignalized Intersections

#	Intersection & Approach	Weekday AM Peak Hour															Weekday PM Peak Hour														
		Phase 2 No Action					Phase 2 Peak Construction						Phase 2 Peak Construction					Phase 2 No Action					Phase 2 Peak Construction						Phase 2 Peak Construction					
		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)		Lane Group	v/c Ratio	Delay (sec)	LOS	Queue Length (ft)	
103	**Route 9A & 33rd Street**																															
	Westbound	R	0.81	36.1	E	195.0	R	0.73	26.4	D	154.0		R	0.73	26.4	D	154.0	R	2.64	777.4	F	1542.0	R	2.69	796.5	F	1578.0	+	R	2.69	796.5	F	1578.0	U

Notes: L = Left Turn, T= Through, R = Right Turn, DefL = Defacto Left Turn; LOS = Level of Service. The LOS results were reported using the HCM 2000 methodology. + = denotes significant adverse impact. U = denotes umitigable significant adverse impact. **This table is new to the FEIS.**

Transit

Transit Tables

Table MA-Ts1
34th Street – Herald Square
Stairway Analysis - 2033 With Action Mitigation Condition

Subway Stair	With Action Width (ft)	2033 Mitigation Width (ft)	2033 No Action V/C Ratio	2033 With Action V/C Ratio	2033 Mitigation V/C Ratio	Potential Mitigation Measures
Weekday AM Peak Hour						
HM302	9.00	20.00	1.92	2.27	0.93	Reconstruct as 20' wide stairway
M1/S2	8.00	25.00	1.12	1.19	0.98	Reconstruct as 25' wide stairway; eliminate HM300 and M2/S1 stairways
ML11/P11	8.50	10.00	0.97	1.35	1.08	Reconstruct as a 10' wide stairway (partially mitigated)
P1 (BMT)	9.58	9.58	1.33	1.38	0.83	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone
P2 (BMT)	9.58	9.58	1.62	1.68	1.01	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone
NEW P2A (BMT)	-	7.50	-	-	0.77	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone
NEW P2B (BMT)	-	7.50	-	-	0.93	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone
Weekday PM Peak Hour						
M1/S2	8.00	25.00	1.43	1.51	1.13	Reconstruct as 25' wide stairway; eliminate HM300 and M2/S1 stairways
ML12/P12	8.50	10.00	1.53	1.77	1.42	Reconstruct as a 10' wide stairway
P1 (BMT)	9.58	9.58	1.39	1.49	0.89	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone
P2 (BMT)	9.58	9.58	1.28	1.37	0.82	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone
NEW P2A (BMT)	-	7.50	-	-	0.83	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone
NEW P2B (BMT)	-	7.50	-	-	0.76	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone

Note: This table has been revised for the FEIS.

Table MA-Ts2
34th Street - Herald Square
Escalator Analysis - 2033 With Action Mitigation Condition

Escalator	Tread Width (in.)	2033 No Action V/C Ratio	2033 With Action V/C Ratio	2033 Mitigation V/C Ratio	Potential Mitigation Measures
Weekday AM Peak Hour					
E229	24	0.96	0.96	0.56	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
E230	24	1.79	1.90	1.11	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
E231	24	0.17	0.16	0.09	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
E232	24	1.67	1.66	0.97	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
Weekday PM Peak Hour					
E221	24	0.58	1.55	1.55	Temporarily unmitigated (reconstructed in 2044 With Action condition)
E229	24	1.43	1.43	0.83	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
E230	24	0.92	1.07	0.62	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
E231	24	0.65	0.65	0.38	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
E232	24	1.19	1.16	0.67	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds

Note: This table has been revised for the FEIS.

Table MA-Ts3
34th Street - Penn Station (Seventh Avenue)
Stairway Analysis - 2033 With Action Mitigation Condition

Subway Stair	With Action Width (ft)	2033 Mitigation Width (ft)	2033 No Action V/C Ratio	2033 With Action V/C Ratio	2033 Mitigation V/C Ratio	Potential Mitigation Measures
Weekday AM Peak Hour						
ML2/ML4	12.83	12.83	0.71	1.45	1.45	Unmitigated (due to obstructing columns)
NEW-V2A	10.25	10.25	-	1.18	1.18	Unmitigated (due to obstructing columns)
Weekday PM Peak Hour						
ML2/ML4	12.83	12.83	0.72	2.32	2.32	Unmitigated (due to obstructing columns)
NEW-V2A	10.25	10.25	-	1.10	1.10	Unmitigated (due to obstructing columns)
NEW-V2B	10.00	10.00	-	1.21	1.21	Unmitigated (due to obstructing columns)
Note: This table has been revised for the FEIS.						

Table MA-Ts4
34th Street - Herald Square
Stairway Analysis - 2044 With Action Mitigation Condition

Subway Stair	With Action Width (ft)	2044 Mitigation Width (ft)	2044 No Action V/C Ratio	2044 With Action V/C Ratio	2044 Mitigation v/c ratio	Potential Mitigation Measures
Weekday AM Peak Hour						
HM302	9.00	20.00	1.96	2.71	1.12	Reconstruct as 20' wide stairway
M1/S2	8.00	25.00	1.16	1.40	1.02	Reconstruct as 25' wide stairway; eliminate HM300 and M2/S1 stairways
S5/M5	9.67	20.00	1.56	1.92	0.93	Reconstruct as two 10' wide stairs and relocate to Broadway plaza
ML11/P11	8.50	10.00	1.00	1.88	1.52	Reconstruct as a 10' wide stair (partially mitigated)
ML12/P12	8.50	10.00	0.89	1.10	0.89	Reconstruct as a 10' wide stair
P1 (BMT)	9.58	9.58	1.37	1.75	1.05	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone (partially mitigated)
P2 (BMT)	9.58	9.58	1.66	2.03	1.22	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone (partially mitigated)
NEW-P1A (BMT)	-	7.50	-	-	0.97	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone (partially mitigated)
NEW-P2A (BMT)	-	7.50	-	-	1.13	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone (partially mitigated)
P7 (BMT)	9.92	9.92	1.36	1.42	1.42	Unmitigated (due to obstructing columns)
Weekday PM Peak Hour						
HM302	9.00	20.00	1.92	2.15	0.88	Reconstruct as 20' wide stairway
M1/S2	8.00	25.00	1.47	1.60	1.18	Reconstruct as 25' wide stairway; eliminate HM300 and M2/S1 stairways
S5/M5	9.67	20.00	1.77	1.82	0.88	Reconstruct as two 10' wide stairs and relocate to Broadway plaza
ML12/P12	8.50	10.00	1.56	1.96	1.58	Reconstruct as a 10' wide stair
P1 (IND)	9.83	9.83	1.15	1.36	1.36	Unmitigated (due to obstructing columns)
P1 (BMT)	9.58	9.58	1.43	1.83	1.10	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone (partially mitigated)
P2 (BMT)	9.58	9.58	1.31	1.72	1.03	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone (partially mitigated)
NEW-P1A (BMT)	-	7.50	-	-	1.02	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone (partially mitigated)
NEW-P2A (BMT)	-	7.50	-	-	0.96	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone (partially mitigated)
Note: This table has been revised for the FEIS.						

Table MA-Ts5
34th Street - Herald Square
Escalator Analysis – 2044 With Action Mitigation Condition

Escalator	Tread Width (in.)	2044 No Action V/C Ratio	2044 With Action V/C Ratio	2044 Mitigation V/C Ratio	Potential Mitigation Measures
Weekday AM Peak Hour					
E229	24	0.98	0.99	0.57	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
E230	24	1.83	2.24	1.30	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
E231	24	0.17	0.18	0.10	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
E232	24	1.71	1.88	1.10	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
Weekday PM Peak Hour					
E229	24	1.46	1.60	0.93	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
E230	24	0.94	1.11	0.64	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
E231	24	0.67	0.85	0.49	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
E232	24	1.21	1.39	0.81	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
Note: This table has been revised for the FEIS.					

Table MA-Ts6
34th Street – Penn Station (Seventh Avenue)
Stairway Analysis - 2044 With Action Mitigation Condition

Subway Stair	With Action Width (ft)	2044 Mitigation Width (ft)	2044 No Action V/C Ratio	2044 With Action V/C Ratio	2044 Mitigation v/c ratio	Potential Mitigation Measures
Weekday AM Peak Hour						
ML2/ML4	30.00		0.82	1.31	1.31	Unmitigated (due to obstructing columns)
NEW-V2A	10.25	-	-	1.67	1.67	Unmitigated (due to obstructing columns)
NEW-V2B	10.00	-	-	1.27	1.27	Unmitigated (due to obstructing columns)
Weekday PM Peak Hour						
ML2/ML4	30.00	-	0.73	1.50	1.50	Unmitigated (due to obstructing columns)
NEW-V2A	10.25	-	-	1.57	1.57	Unmitigated (due to obstructing columns)
NEW-V2B	10.00	-	-	1.56	1.56	Unmitigated (due to obstructing columns)
U4A/U4B	13.00	-	-	1.12	1.12	Unmitigated (due to obstructing columns)
Note: This table has been revised for the FEIS.						

Table MA-Ts7
34th Street - Penn Station (Seventh Avenue)
Fare Control Analysis – 2044 With Action Mitigation Condition

Fare Control Element	Location	With Action No. of Turnstiles	2044 No Action V/C Ratio	2044 With Action V/C Ratio	2044 Mitigation No. of Turnstiles	2044 Mitigation V/c	Potential Mitigation Measures
Weekday AM Peak Hour							
Two-way Turnstiles	**West 32nd Street / Seventh Avenue - East (R135)**	10	1.14	1.21	11	1.10	Add one turnstile
Note: This table has been revised for the FEIS.							

Table MA-Ts8
34th Street – Penn Station (Eighth Avenue)
Stairway Analysis - 2044 With Action Mitigation Condition

Subway Stair	With Action Width (ft)	2044 Mitigation Width (ft)	2044 No Action V/C Ratio	2044 With Action V/C Ratio	2044 Mitigation v/c ratio	Potential Mitigation Measures
Weekday PM Peak Hour						
M4	10.00	15.00	1.14	1.47	0.94	Reconstruct as a 15' wide stair and expand towards the building line
M9	9.20	10.00	1.33	1.41	1.28	Reconstruct as a 10' wide stair and expand towards the building line
M27/M28	7.50		1.00	1.13	1.13	Unmitigated (due to obstructing columns)
Note: This table has been revised for the FEIS.						

Table MA-Ts9
2044 No Action Condition, With Action Condition, and With Action Mitigation Condition
Subway Line Haul Analysis Comparison

Peak Hour	Line	Direction	Maximum Load Point (leaving station)	Average Trains Per Hour	Cars Per Train	Total Number of cars/hr	2044 No Action Passengers per Hour	2044 No Action V/C Ratio	2044 With Action Passengers per Hour-	2044 With Action V/C Ratio	2044 With Action Mitigation Measures	2044 With Action Mitigation V/C Ratio
AM	2/3	SB	34 St – Penn Station	23.5	9	204	30,240	1.27	32,260	1.36	Add 2 trains in the AM peak hour	1.24
	E	NB	Jackson Heights – Roosevelt Av	15.3	10	153	27,098	1.22	27,916	1.26	Add 1 train in the AM peak hour	1.18
PM	1	NB	59 St - Columbus Circle	16.1	10	161	22,072	1.25	23,098	1.30	Add 1 train in the PM peak hour	1.23
	2/3	NB	Times Sq-42nd St	21.3	10	213	25,632	1.09	27,218	1.16	Add 2 trains in the PM peak hour	1.06
	A/D	NB	59 St – Columbus Circle	12.1	8	101	15,938	0.90	17,813	1.01	Add 1 train in the PM peak hour	0.93
	E	NB	Lexington Av – 53 St	14.6	10	146	18,816	1.10	24,124	1.14	Add 1 train in the PM peak hour	1.07
Note: This table has been revised for the FEIS.												

Table MA-Ts10
34th Street – Herald Square
With 32nd Street East-West Connector Option
Stairway Analysis - 2033 With Action Mitigation Condition

Subway Stair	With Action Width (ft)	2033 Mitigation Width (ft)	2033 No Action V/C Ratio	2033 With Action V/C Ratio	2033 Mitigation V/C Ratio	Potential Mitigation Measures
Weekday AM Peak Hour						
HM302	9.00	20.00	1.92	2.39	0.98	Reconstruct as 20' wide stairway
ML11/P11	8.50	10.00	0.97	1.13	0.91	Reconstruct as a 10' wide stairway
P4 (IND)	9.50	9.50	0.98	1.14	1.14	Unmitigated (due to obstructing columns)
P1 (BMT)	9.58	9.58	1.33	1.55	0.93	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone
P2 (BMT)	9.58	9.58	1.62	1.86	1.12	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone (partially mitigated)
NEW P2A (BMT)	-	7.50	-	-	0.86	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone
NEW P2B (BMT)	-	7.50	-	-	1.03	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone (partially mitigated)
Weekday PM Peak Hour						
ML12/P12	8.50	10.00	1.53	1.83	1.47	Reconstruct as a 10' wide stairway
P1 (BMT)	9.58	9.58	1.39	1.69	1.02	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone
P2 (BMT)	9.58	9.58	1.28	1.55	0.93	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone
NEW P2A (BMT)	-	7.50	-	-	0.94	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone
NEW P2B (BMT)	-	7.50	-	-	0.86	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone

Note: This table is new to the FEIS.

Table MA-Ts11
34th Street - Herald Square
With 32nd Street East-West Connector Option
Escalator Analysis - 2033 With Action Mitigation Condition

Escalator	Tread Width (in.)	2033 No Action V/C Ratio	2033 With Action V/C Ratio	2033 Mitigation V/C Ratio	Potential Mitigation Measures
Weekday AM Peak Hour					
E222	32	0.97	1.23	0.98	Temporarily unmitigated (reconstructed in 2044 With Action condition)
E229	24	0.96	0.96	0.56	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
E230	24	1.79	1.79	1.04	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
E231	24	0.17	0.19	0.11	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
E232	24	1.67	1.69	0.98	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
Weekday PM Peak Hour					
E221	24	0.58	1.51	1.51	Temporarily unmitigated (reconstructed in 2044 With Action condition)
E229	24	1.43	1.43	0.83	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
E230	24	0.92	1.07	0.53	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
E231	24	0.65	0.65	0.39	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
E232	24	1.19	1.16	0.69	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds

Note: This table is new to the FEIS.

Table MA-Ts12
34th Street - Penn Station (Seventh Avenue)
With 32nd Street East-West Connector Option
Stairway Analysis - 2033 With Action Mitigation Condition

Subway Stair	With Action Width (ft)	2033 Mitigation Width (ft)	2033 No Action V/C Ratio	2033 With Action V/C Ratio	2033 Mitigation V/C Ratio	Potential Mitigation Measures
Weekday AM Peak Hour						
NEW-V2A	10.25	10.25	-	1.12	1.12	Unmitigated (due to obstructing columns)
Weekday PM Peak Hour						
ML2/ML4	12.83	12.83	0.72	1.44	1.44	Unmitigated (due to obstructing columns)
NEW-V2B	10.00	10.00	-	1.15	1.15	Unmitigated (due to obstructing columns)

Note: This table is new to the FEIS.

Table MA-Ts13
34th Street - Herald Square
With 32nd Street East-West Connector Option
Stairway Analysis - 2044 With Action Mitigation Condition

Subway Stair	With Action Width (ft)	2044 Mitigation Width (ft)	2044 No Action V/C Ratio	2044 With Action V/C Ratio	2044 Mitigation v/c ratio	Potential Mitigation Measures
Weekday AM Peak Hour						
HM302	9.00	20.00	1.96	2.74	1.13	Reconstruct as 20' wide stairway
M1/S2	8.00	25.00	1.16	1.41	0.98	Reconstruct as 25' wide stairway; eliminate HM300 and M2/S1 stairways
S5/M5	9.67	20.00	1.56	2.18	1.05	Reconstruct as two 10' wide stairs and relocate to Broadway plaza
ML11/P11	8.50	10.00	1.00	1.61	1.30	Reconstruct as a 10' wide stair (partially mitigated)
ML12/P12	8.50	10.00	0.89	1.13	0.91	Reconstruct as a 10' wide stair
P4 (IND)	9.50	9.50	1.00	1.47	1.47	Unmitigated (due to obstructing columns)
P1 (BMT)	9.58	9.58	1.37	2.00	1.20	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone (partially mitigated)
P2 (BMT)	9.58	9.58	1.66	2.31	1.38	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone (partially mitigated)
NEW-P1A (BMT)	-	7.50	-	-	1.11	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone (partially mitigated)
NEW-P2A (BMT)	-	7.50	-	-	1.28	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone (partially mitigated)
P7 (BMT)	9.92	9.92	1.36	1.43	1.43	Unmitigated (due to obstructing columns)
PSG-32	-	22.00	-	1.38	1.38	Unmitigated (due to design constraints)
Weekday PM Peak Hour						
HM302	9.00	20.00	1.92	2.25	0.92	Reconstruct as 20' wide stairway
M1/S2	8.00	25.00	1.47	1.65	1.17	Reconstruct as 25' wide stairway; eliminate HM300 and M2/S1 stairways
S5/M5	9.67	20.00	1.77	1.99	0.96	Reconstruct as two 10' wide stairs and relocate to Broadway plaza
ML12/P12	8.50	10.00	1.56	2.04	1.64	Reconstruct as a 10' wide stair (partially mitigated)
P1 (IND)	9.83	9.83	1.15	1.50	1.50	Unmitigated (due to obstructing columns)

Table MA-Ts13 (continued)
34th Street - Herald Square
With 32nd Street East-West Connector Option
Stairway Analysis - 2044 With Action Mitigation Condition

Subway Stair	With Action Width (ft)	2044 Mitigation Width (ft)	2044 No Action V/C Ratio	2044 With Action V/C Ratio	2044 Mitigation v/c ratio	Potential Mitigation Measures
P1 (BMT)	9.58	9.58	1.43	2.13	1.28	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone (partially mitigated)
P2 (BMT)	9.58	9.58	1.31	1.98	1.19	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone (partially mitigated)
NEW-P1A (BMT)	-	7.50	-	-	1.18	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone (partially mitigated)
NEW-P2A (BMT)	-	7.50	-	-	1.10	Reconstruct A25 mezzanine and add new P2A and P2B stairways to A25 paid zone (partially mitigated)
PSG-32	-	22.00	-	-	1.18	Unmitigated (due to design constraints)

Note: This table is new to the FEIS.

Table MA-Ts14
34th Street - Herald Square
With 32nd Street East-West Connector Option
Escalator Analysis – 2044 With Action Mitigation Condition

Escalator	Tread Width (in.)	2044 No Action V/C Ratio	2044 With Action V/C Ratio	2044 Mitigation V/C Ratio	Potential Mitigation Measures
Weekday AM Peak Hour					
E229	24	0.98	0.99	0.57	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
E230	24	1.83	2.05	1.19	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
E231	24	0.17	0.20	0.12	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
E232	24	1.71	1.89	1.10	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
Weekday PM Peak Hour					
E221	40	0.65	1.04	1.04	Unmitigated
E229	24	1.46	1.60	0.93	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
E230	24	0.94	0.94	0.55	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
E231	24	0.67	0.87	0.50	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds
E232	24	1.21	1.44	0.84	Reconstruct E229, E230, E231, and E232 escalators with 32 inch tread widths and 100 fpm speeds

Note: This table is new to the FEIS.

Table MA-Ts15
34th Street – Herald Square
With 32nd Street East-West Connector Option
Fare Control Analysis – 2044 With Action Mitigation Condition

Fare Control Element	Location	With Action No. of Turnstiles	2044 No Action V/C Ratio	2044 With Action V/C Ratio	2044 Mitigation No. of Turnstiles	2044 Mitigation V/c	Potential Mitigation Measures
Weekday AM Peak Hour							
HEET	**Broadway and West 32nd Street - West (A25)**	3	0.77	1.06	4	0.80	Add one HEET turnstile
Note: This table is new to the FEIS.							

Table MA-Ts16
34th Street – Penn Station (Seventh Avenue)
With 32nd Street East-West Connector Option
Stairway Analysis - 2044 With Action Mitigation Condition

Subway Stair	With Action Width (ft)	2044 Mitigation Width (ft)	2044 No Action V/C Ratio	2044 With Action V/C Ratio	2044 Mitigation v/c ratio	Potential Mitigation Measures
Weekday AM Peak Hour						
NEW-V2A	10.25	-	-	1.58	1.58	Unmitigated (due to obstructing columns)
NEW-V2B	10.00	-	-	1.25	1.25	Unmitigated (due to obstructing columns)
PSG-32	22.00	-	-	1.38	1.38	Unmitigated (due to design constraints)
Weekday PM Peak Hour						
P6A/P6B	15.00	17.50	0.27	1.08	0.91	Reconstruct as 17.5' wide stairway
NEW-V2A	10.25	-	-	1.49	1.49	Unmitigated (due to obstructing columns)
NEW-V2B	10.00	-	-	1.47	1.47	Unmitigated (due to obstructing columns)
U4A/U4B	13.00	-	0.65	1.06	1.06	Unmitigated (due to obstructing columns)
PSG-32	22.00	-	-	1.18	1.18	Unmitigated (due to design constraints)
Note: This table is new to the FEIS.						

Table MA-Ts17
34th Street – Penn Station (Eighth Avenue)
With 32nd Street East-West Connector Option
Stairway Analysis - 2044 With Action Mitigation Condition

Subway Stair	With Action Width (ft)	2044 Mitigation Width (ft)	2044 No Action V/C Ratio	2044 With Action V/C Ratio	2044 Mitigation v/c ratio	Potential Mitigation Measures
Weekday PM Peak Hour						
M4	10.00	15.00	1.14	1.28	0.81	Reconstruct as a 15' wide stair and expand towards the building line
M27/M28	7.50		1.00	1.12	1.12	Unmitigated (due to obstructing columns)
Note: This table is new to the FEIS.						

Table MA-Ts18
2044 No Action Condition, With Action Condition, and With Action Mitigation Condition
With 32nd Street East-West Connector Option
Subway Line Haul Analysis Comparison

Peak Hour	Line	Direction	Maximum Load Point (leaving station)	Average Trains Per Hour	Cars Per Train	Total Number of cars/hr	2044 No Action Passengers per Hour	2044 No Action V/C Ratio	2044 With Action Passengers per Hour-	2044 With Action V/C Ratio	2044 With Action Mitigation Measures	2044 With Action Mitigation V/C Ratio
AM	2/3	SB	34 St – Penn Station	23.5	9	204	30,240	1.27	32,156	1.35	Add 2 trains in the AM peak hour	1.24
	E	NB	Jackson Heights – Roosevelt Av	15.3	10	153	27,098	1.22	27,916	1.26	Add 1 train in the AM peak hour	1.18
PM	1	NB	59 St - Columbus Circle	16.1	10	161	22,072	1.25	23,043	1.30	Add 1 train in the PM peak hour	1.23
	2/3	NB	Times Sq-42nd St	21.3	10	213	25,632	1.09	27,054	1.15	Add 2 trains in the PM peak hour	1.06
	A/D	NB	59 St – Columbus Circle	12.1	8	101	15,938	0.90	17,859	1.01	Add 1 train in the PM peak hour	0.93

Note: This table is new to the FEIS.

Table MA-Ts19
2044 With Action Condition
With 33rd Street East-West Connector and 34th Street Undercrossings
Level of Service Summary—Subway Station Stair Analysis
34th Street-Penn Station (Seventh Avenue)

Subway Stair	Location	Actual Width (ft)	Effective Width (ft)	Peak Hour Volumes		Peak 15-Minute Volumes		Friction Factor	Surge Factor		V/C Ratio	LOS
				In to Station	Out from Station	In to Station	Out from Station		In to Station	Out from Station		
Weekday AM Peak Hour												
S1/P1A/P1B/P2	Street stair at Northwest Corner of Seventh Avenue and West 33rd Street (reconstructed)	10.00	9.00	145	1,064	45	332	90%	100%	90%	0.34	A
S2/P4	Street stair at Northeast Corner of Seventh Avenue and West 33rd Street (eliminated)	Eliminated in 2044 With Action Condition										
S3/P5A/P5B	Street stair at Southwest Corner of Seventh Avenue and West 34th Street (reconstructed)	10.00	8.75	218	1,146	68	358	90%	100%	90%	0.39	A
P6A/P6B	Street stair at Southeast Corner of Seventh Avenue and West 34th Street (reconstructed)	15.00	14.00	419	1,665	131	520	90%	100%	90%	0.38	A
P7/S5	Street stair at Northwest Corner of Seventh Avenue and West 34th Street	15.00	13.00	304	3,280	95	1,025	90%	100%	90%	0.70	C
P8/S6	Street stair at Northeast Corner of Seventh Avenue and West 34th Street	15.00	13.00	191	4,880	60	1,525	100%	100%	90%	0.90	C
U7A/U7B	Connecting stairway (34th Street underpass and Downtown No. 1 platform)	11.75	10.50	263	1,164	82	364	90%	85%	85%	0.37	A
U9A/U9B	Connecting stairway (34th Street underpass and Uptown No. 1 platform)	11.50	10.25	226	1,845	71	576	90%	85%	85%	0.55	B
ML2/ML4	Connecting stairway (33rd Street underpass and R139 free zone, reconstructed)	30.00	27.75	2,098	14,550	656	4,547	90%	90%	95%	1.47	E
ML5/ML7/ML9/ML11	Connecting stairway (33rd Street underpass and Downtown No. 1 platform, reconstructed)	15.00	13.50	701	1,635	219	511	90%	95%	75%	0.50	B
ML6/ML8	Connecting stairway (33rd Street underpass and Uptown No. 1 platform, reconstructed)	10.00	9.00	142	3,049	44	953	100%	95%	75%	0.98	C
ML9/ML11	Connecting stairway (33rd Street underpass and Downtown No. 1 platform, eliminated)	Eliminated in 2044 With Action Condition										
ML12A/ML12B	Connecting stairway (33rd Street underpass and No. 2/3 platform)	9.75	8.50	2,244	1,488	701	465	90%	95%	75%	1.18	D
ML14A/ML14B	Connecting stairway (33rd Street underpass and No. 2/3 platform)	9.75	8.50	4,115	833	1,286	260	90%	95%	75%	1.48	E
O5/O6	Connecting stairway (32nd Street underpass and Downtown No. 1 platform, reconstructed)	10.00	9.00	1,184	1,167	370	365	90%	95%	75%	0.72	C
O8	Connecting stairway (32nd Street underpass and Uptown No. 1 platform, reconstructed)	20.00	18.25	269	5,519	84	1,725	100%	80%	90%	0.74	C
O9	Connecting stairway (32nd Street underpass and Uptown No. 1 platform, reconstructed)	10.00	8.50	150	2,689	47	840	100%	100%	90%	0.77	C
O10	Connecting stairway (32nd Street underpass and Uptown No. 1 platform, reconstructed)	10.00	8.50	133	3,805	42	1,189	100%	75%	90%	1.08	D
O14/O15	Street stair at Northeast Corner of Seventh Avenue and West 32nd Street (reconstructed)	15.00	13.75	155	1,524	48	476	90%	100%	90%	0.31	A
O17/P3	Street stair at Southeast Corner of Seventh Avenue and West 33rd Street (reconstructed)	15.00	13.75	228	2,235	71	698	90%	100%	90%	0.46	B
O18/O19	Street stair at Northeast Corner of Seventh Avenue and West 33rd Street (reconstructed)	10.00	9.00	257	1,690	80	528	90%	100%	90%	0.55	B
U3A/U3B	Connecting stairway (32nd Street underpass and No. 2/3 platform)	10.25	9.00	3,785	1,870	1,183	584	90%	95%	75%	1.67	E
NEW-V2A	New connecting stairway (32nd Street underpass and No. 2/3 platform)	10.25	9.00	3,785	1,870	1,183	584	90%	95%	75%	1.67	E
NEW-V2B	New connecting stairway (33rd Street underpass and No. 2/3 platform)	10.00	8.75	0	3,997	0	1,249	100%	95%	75%	1.27	D
U4A/U4B	Connecting stairway (34th Street underpass and No. 2/3 platform)	13.00	11.50	1,211	2,837	378	887	90%	100%	75%	1.01	D
U10/U14	Connecting stairway (32nd Street underpass, reconstructed)	20.33	19.08	5,120	2,029	1,600	634	90%	95%	80%	0.96	C
NEW-V7	New street stair at north sidewalk of West 32nd Street between Sixth Avenue and Seventh Avenue	14.00	12.50	47	1,007	15	315	100%	100%	85%	0.21	A
NEW-PSG32	32nd Street passageway between Seventh Avenue station and NEW-V7	22.00	20.00	2,169	6,808	678	2,128	90%	95%	95%	0.73	C
NEW-PSG-SITE6	North-South passageway underneath Site 6	25.00	23.00	380	4,754	119	1,486	90%	95%	95%	0.36	A
NEW-PennToR142	New connecting stairway from Penn Station Level A to R142 free zone	20.00	18.75	2,195	422	686	132	90%	100%	80%	0.22	A
NEW-PennToStreet	New street stair from Penn Station Level A to Southwest Corner of Seventh Avenue and West 34th Street	5.00	4.00	51	213	16	67	90%	100%	75%	0.13	A

Table MA-Ts19 (continued)
2044 With Action Condition
With 33rd Street East-West Connector and 34th Street Undercrossings
Level of Service Summary—Subway Station Stair Analysis
34th Street-Penn Station (Seventh Avenue)

Subway Stair	Location	Actual Width (ft)	Effective Width (ft)	Peak Hour Volumes		Peak 15-Minute Volumes		Friction Factor	Surge Factor		V/C Ratio	LOS
Weekday PM Peak Hour												
S1/P1A/P1B/P2	Street stair at Northwest Corner of Seventh Avenue and West 33rd Street (reconstructed)	10.00	9.00	549	357	172	112	90%	100%	90%	0.24	A
S2/P4	Street stair at Northeast Corner of Seventh Avenue and West 33rd Street (eliminated)	Eliminated in 2044 With Action Condition										
S3/P5A/P5B	Street stair at Southwest Corner of Seventh Avenue and West 34th Street (reconstructed)	10.00	8.75	2,061	187	644	59	90%	100%	90%	0.60	B
P6A/P6B	Street stair at Southeast Corner of Seventh Avenue and West 34th Street (reconstructed)	15.00	14.00	3,256	363	1,017	113	90%	100%	90%	0.60	B
P7/S5	Street stair at Northwest Corner of Seventh Avenue and West 34th Street	15.00	13.00	5,972	901	1,866	282	90%	100%	90%	1.24	D
P8/S6	Street stair at Northeast Corner of Seventh Avenue and West 34th Street	15.00	13.00	4,404	817	1,376	255	90%	100%	90%	0.95	C
U7A/U7B	Connecting stairway (34th Street underpass and Downtown No. 1 platform)	11.75	10.50	1,178	380	368	119	90%	85%	85%	0.40	A
U9A/U9B	Connecting stairway (34th Street underpass and Uptown No. 1 platform)	11.50	10.25	1,562	626	488	196	90%	85%	85%	0.58	B
ML2/ML4	Connecting stairway (33rd Street underpass and R139 free zone, reconstructed)	30.00	27.75	14,703	2,562	4,595	801	90%	90%	95%	1.59	E
ML5/ML7	Connecting stairway (33rd Street underpass and Downtown No. 1 platform, reconstructed)	15.00	13.50	3,458	381	1,081	119	90%	95%	75%	0.71	C
ML6/ML8	Connecting stairway (33rd Street underpass and Uptown No. 1 platform)	10.00	9.00	942	747	294	234	90%	95%	75%	0.51	B
ML9/ML11	Connecting stairway (33rd Street underpass and Downtown No. 1 platform)	Eliminated in 2044 With Action Condition										
ML12A/ML12B	Connecting stairway (33rd Street underpass and No. 2/3 platform)	9.75	8.50	1,535	1,515	480	473	90%	95%	75%	0.99	C
ML14A/ML14B	Connecting stairway (33rd Street underpass and No. 2/3 platform)	9.75	8.50	3,239	1,348	1,012	421	90%	95%	75%	1.42	E
O5/O6	Connecting stairway (32nd Street underpass and Downtown No. 1 platform, reconstructed)	10.00	9.00	3,411	210	1,066	66	90%	95%	75%	1.00	C
O8	Connecting stairway (32nd Street underpass and Uptown No. 1 platform, reconstructed)	20.00	18.25	2,125	1,237	664	386	90%	80%	90%	0.51	B
O9	Connecting stairway (32nd Street underpass and Uptown No. 1 platform, reconstructed)	10.00	8.50	1,653	488	516	152	90%	100%	90%	0.60	B
O10	Connecting stairway (32nd Street underpass and Uptown No. 1 platform, reconstructed)	10.00	8.50	891	899	278	281	90%	75%	90%	0.60	B
O14/O15	Street stair at Northeast Corner of Seventh Avenue and West 32nd Street (reconstructed)	15.00	13.75	1,293	278	404	87	90%	100%	90%	0.27	A
O17/P3	Street stair at Southeast Corner of Seventh Avenue and West 33rd Street (reconstructed)	15.00	13.75	3,362	294	1,051	92	90%	100%	90%	0.62	B
O18/O19	Street stair at Northeast Corner of Seventh Avenue and West 33rd Street (reconstructed)	10.00	9.00	1,371	541	428	169	90%	100%	90%	0.51	B
U3A/U3B	Connecting stairway (32nd Street underpass and No. 2/3 platform)	10.25	9.00	2,841	2,306	888	721	90%	95%	75%	1.56	E
NEW-V2A	New connecting stairway (32nd Street underpass and No. 2/3 platform)	10.25	9.00	2,841	2,306	888	721	90%	95%	75%	1.56	E
NEW-V2B	New connecting stairway (33rd Street underpass and No. 2/3 platform)	10.00	8.75	0	4,931	0	1,541	100%	95%	75%	1.57	E
U4A/U4B	Connecting stairway (34th Street underpass and No. 2/3 platform)	13.00	11.50	909	3,499	284	1,093	90%	100%	75%	1.12	D
U10/U14	Connecting stairway (32nd Street underpass)	20.33	19.08	741	4,534	232	1,417	90%	95%	80%	0.78	C
NEW-V7	New street stair at north sidewalk of West 32nd Street between Sixth Avenue and Seventh Avenue	14.00	12.50	887	86	277	27	90%	100%	85%	0.18	A
NEW-PSG32	32nd Street passageway between Seventh Avenue station and NEW-V7	22.00	20.00	7,215	2,200	2,255	688	90%	95%	95%	0.76	C
NEW-PSG-SITE6	North-South passageway underneath Site 6	25.00	23.00	4,640	528	1,450	165	90%	95%	95%	0.37	A
NEW-PennToR142	New connecting stairway from Penn Station Level A to R142 free zone	20.00	18.75	495	6,421	155	2,007	90%	100%	80%	0.70	C
NEW-PennToStreet	New street stair from Penn Station Level A to Southwest Corner of Seventh Avenue and West 34th Street	5.00	4.00	636	12	199	4	100%	100%	75%	0.23	A

Note: This table is new to the FEIS.

Table MA-Ts20
2044 With Action Condition
With 33rd Street East-West Connector and 34th Street Undercrossings
Level of Service Summary—Subway Station Escalator Analysis
34th Street-Penn Station (Seventh Avenue)

Escalator	Location	Quantity	Tread Width (in.)	Surging Factor (exiting)	Peak Hour Volumes		Peak 15-Minute Volumes		Peak 15-Minute Capacity (w/o surging factor)	V/C Ratio	LOS
					In to Station	Out from Station	In to Station	Out from Station			
Weekday AM Peak Hour											
NEW-PennToStreet	New street escalator connecting Penn Station Level A to street	2	40	80%	171	0	53	0	2,340	0.03	A
NEW-PennToStreet	New street escalator connecting Penn Station Level A to street	2	40	80%	0	2838	0	887	2,340	0.47	B
Weekday PM Peak Hour											
NEW-PennToStreet	New street escalator connecting Penn Station Level A to street	2	40	80%	2121	0	663	0	2,340	0.35	A
NEW-PennToStreet	New street escalator connecting Penn Station Level A to street	2	40	80%	0	154	0	48	2,340	0.03	A

Note: This table is new to the FEIS.

Table MA-Ts21
2044 With Action Condition
With 33rd Street East-West Connector and 34th Street Undercrossings
Level of Service Summary—Subway Station Fare Control Analysis
34th Street-Penn Station (Seventh Avenue)

Fare Control Elements	Quantity	Capacity		Peak Hour Volumes		Peak 15-Minute Volumes		Friction Factor	Surge Factor Out	V/C Ratio	LOS
		In to Station	Out from Station	In to Station	Out from Station	In to Station	Out from Station				
Weekday AM Peak Hour											
West 34th Street / Seventh Avenue - West (R142)											
Two-Way Turnstiles	4	1,680	2,580	505	1,885	158	589	0.90	0.75	0.44	A
HEET	2	510	1,080	47	573	15	179	0.90	0.75	0.28	A
West 34th Street / Seventh Avenue from Penn Level A - West (NEW)											
Two-Way Turnstiles	5	2,100	3,225	1,447	661	452	206	0.90	0.80	0.33	A
West 34th Street / Seventh Avenue - East (R141)											
Two-Way Turnstiles	7	2,940	4,515	347	1,567	108	490	0.90	0.75	0.20	A
West 33rd Street / Seventh Avenue - West (R140, reconstructed)											
Two-Way Turnstiles	4	1,680	2,580	148	1,075	46	336	0.90	0.75	0.22	A
West 33rd Street / Seventh Avenue - East (R139, reconstructed)											
Two-Way Turnstiles	11	4,620	7,095	1,750	195	547	61	0.90	0.75	0.14	A
HEET	1	255	540	53	104	17	33	0.90	0.75	0.16	A
West 33rd Street / Seventh Avenue - East (R138, reconstructed)											
Two-Way Turnstiles	12	5,040	7,740	9,337	2,625	2,918	820	0.90	0.80	0.79	C
West 33rd Street / Seventh Avenue - East (R138-South) (NEW)											
Two-Way Turnstiles	3	1,260	1,935	0	3,997	0	1,249	1.00	0.80	0.81	C
West 32nd Street / Seventh Avenue - East (R137, reconstructed)											
Two-Way Turnstiles	9	3,780	5,805	185	2,307	58	721	0.90	0.75	0.20	A
West 32nd Street / Seventh Avenue - East (R135, reconstructed)											
Two-Way Turnstiles	10	4,200	6,450	11,696	3,567	3,655	1,115	0.90	0.80	1.21	D
West 32nd Street / Seventh Avenue - West -NEW at Southbound Local Platform											
Two-Way Turnstiles	5	2,100	3,225	175	178	55	56	0.90	0.80	0.05	A
Weekday PM Peak Hour											
West 34th Street / Seventh Avenue - West (R142)											
Two-Way Turnstiles	4	1,680	2,580	1,759	667	550	208	0.90	0.75	0.48	B
HEET	2	510	1,080	128	192	40	60	0.90	0.75	0.17	A
West 34th Street / Seventh Avenue from Penn Level A - West (NEW)											
Two-Way Turnstiles	5	2,100	3,225	810	944	253	295	0.90	0.80	0.26	A
West 34th Street / Seventh Avenue - East (R141)											
Two-Way Turnstiles	7	2,940	4,515	2,679	600	837	188	0.90	0.75	0.38	A
West 33rd Street / Seventh Avenue - West (R140, reconstructed)											
Two-Way Turnstiles	4	1,680	2,580	551	368	172	115	0.90	0.75	0.18	A
West 33rd Street / Seventh Avenue - East (R139, reconstructed)											
Two-Way Turnstiles	11	4,620	7,095	928	827	290	258	0.90	0.75	0.12	A
HEET	1	255	540	23	254	7	79	0.90	0.75	0.25	A
West 33rd Street / Seventh Avenue - East (R138, reconstructed)											
Two-Way Turnstiles	12	5,040	7,740	5,191	6,311	1,622	1,972	0.90	0.80	0.71	C
West 33rd Street / Seventh Avenue - East (R138-South) (NEW)											
Two-Way Turnstiles	3	1,260	1,935	0	4,931	0	1,541	1.00	0.80	1.00	C
West 32nd Street / Seventh Avenue - East (R137, reconstructed)											
Two-Way Turnstiles	9	3,780	5,805	1,850	360	578	113	0.90	0.75	0.20	A
West 32nd Street / Seventh Avenue - East (R135, reconstructed)											
Two-Way Turnstiles	10	4,200	6,450	5,546	8,520	1,733	2,663	0.90	0.80	1.03	D
West 32nd Street / Seventh Avenue - West -NEW at Southbound Local Platform											
Two-Way Turnstiles	5	2,100	3,225	32	512	10	160	0.90	0.80	0.07	A

Note: This table is new to the FEIS.

Table MA-Ts22
2044 No Action and With Action Conditions
With 33rd Street East-West Connector and 34th Street Undercrossings
Level of Service Comparison—Subway Station Stair Analysis
34th Street-Penn Station (Seventh Avenue)

Subway Stair	Location	No Action Peak15-Minute Volumes		No Action V/C Ratio	With Action Peak 15-Minute Volumes		With Action V/C Ratio	Impact Determination
		In to Station	Out from Station		In to Station	Out from Station		
Weekday AM Peak Hour								
S1/P1A/P1B/P2	Street stair at Northwest Corner of Seventh Avenue and West 33rd Street (reconstructed)	42	237	0.39	45	332	0.34	No Impact
S2/P4	Street stair at Northeast Corner of Seventh Avenue and West 33rd Street (eliminated)	53	244	0.54	Eliminated in 2044 With Action Condition			
S3/P5A/P5B	Street stair at Southwest Corner of Seventh Avenue and West 34th Street (reconstructed)	30	192	0.39	68	358	0.39	No Impact
P6A/P6B	**Street stair at Southeast Corner of Seventh Avenue and West 34th Street (reconstructed)**	43	100	0.13	131	520	0.38	No Impact
P7/S5	Street stair at Northwest Corner of Seventh Avenue and West 34th Street	95	541	1.13	95	1,025	0.70	No Impact
P8/S6	Street stair at Northeast Corner of Seventh Avenue and West 34th Street	60	296	0.63	60	1,525	0.90	No Impact
U7A/U7B	Connecting stairway (34th Street underpass and Downtown No. 1 platform)	78	372	0.37	82	364	0.37	No Impact
U9A/U9B	Connecting stairway (34th Street underpass and Uptown No. 1 platform)	62	362	0.36	71	576	0.55	No Impact
ML2/ML4	**Connecting stairway (33rd Street underpass and R139 free zone, reconstructed)**	**69**	**1,139**	**0.82**	**656**	**4,547**	**1.47**	**Impact**
ML5/ML7/ML9/ML11	Connecting stairway (33rd Street underpass and Downtown No. 1 platform, reconstructed)	89	160	0.47	219	511	0.50	No Impact
ML6/ML8	Connecting stairway (33rd Street underpass and Uptown No. 1 platform, reconstructed)	42	822	2.03	44	953	0.98	No Impact
ML9/ML11	Connecting stairway (33rd Street underpass and Downtown No. 1 platform, eliminated)	111	311	0.86	Eliminated in 2044 With Action Condition			
ML12A/ML12B	Connecting stairway (33rd Street underpass and No. 2/3 platform)	811	756	1.62	701	465	1.18	No Impact
ML14A/ML14B	Connecting stairway (33rd Street underpass and No. 2/3 platform)	1,711	419	2.06	1,286	260	1.48	No Impact
O5/O6	Connecting stairway (32nd Street underpass and Downtown No. 1 platform, reconstructed)	188	209	0.96	370	365	0.72	No Impact
O8	Connecting stairway (32nd Street underpass and Uptown No. 1 platform, reconstructed)	61	1,186	1.20	84	1,725	0.74	No Impact
O9	Connecting stairway (32nd Street underpass and Uptown No. 1 platform, reconstructed)	41	314	0.62	47	840	0.77	No Impact
O10	Connecting stairway (32nd Street underpass and Uptown No. 1 platform, reconstructed)	21	872	1.42	42	1,189	1.08	No Impact
O14/O15	Street stair at Northeast Corner of Seventh Avenue and West 32nd Street (reconstructed)	56	475	0.47	48	476	0.31	No Impact
O17/P3	Street stair at Southeast Corner of Seventh Avenue and West 33rd Street (reconstructed)	30	555	0.45	71	698	0.46	No Impact
O18/O19	Street stair at Northeast Corner of Seventh Avenue and West 33rd Street (reconstructed)	23	288	0.52	80	528	0.55	No Impact
U3A/U3B	Connecting stairway (32nd Street underpass and No. 2/3 platform)	1,117	1,051	2.12	1,183	584	1.67	No Impact
NEW-V2A	**New connecting stairway (32nd Street underpass and No. 2/3 platform)**				**1,183**	**584**	**1.67**	**Impact**
NEW-V2B	**New connecting stairway (33rd Street underpass and No. 2/3 platform)**				**0**	**1,249**	**1.27**	**Impact**
U4A/U4B	Connecting stairway (34th Street underpass and No. 2/3 platform)	115	689	0.67	378	887	1.01	No Impact
U10/U14	Connecting stairway (32nd Street underpass, reconstructed)	1,561	335	1.32	1,600	634	0.96	No Impact
NEW-V7	New street stair at south sidewalk of West 33rd Street between Sixth Avenue and Seventh Avenue				15	315	0.21	No Impact
NEW-PSG33	33rd Street passageway between Seventh Avenue station and NEW-V7				678	2,128	0.73	No Impact
NEW-PSG-SITE6	North-South passageway underneath Site 6				119	1,486	0.36	No Impact
NEW-PennToR142	New connecting stairway from Penn Station Level A to R142 free zone				686	132	0.22	No Impact
NEW-PennToStreet	New street stair from Penn Station Level A to Southwest Corner of Seventh Avenue and West 34th Street				16	67	0.13	No Impact
Weekday PM Peak Hour								
S1/P1A/P1B/P2	Street stair at Northwest Corner of Seventh Avenue and West 33rd Street (reconstructed)	130	107	0.32	172	112	0.24	No Impact
S2/P4	Street stair at Northeast Corner of Seventh Avenue and West 33rd Street (eliminated)	215	137	0.62	Eliminated in 2044 With Action Condition			
S3/P5A/P5B	Street stair at Southwest Corner of Seventh Avenue and West 34th Street (reconstructed)	180	54	0.39	644	59	0.60	No Impact
P6A/P6B	Street stair at Southeast Corner of Seventh Avenue and West 34th Street (reconstructed)	268	44	0.27	1,017	113	0.60	No Impact
P7/S5	**Street stair at Northwest Corner of Seventh Avenue and West 34th Street**	**402**	**137**	**0.90**	**1,866**	**282**	**1.24**	**Impact**
P8/S6	Street stair at Northeast Corner of Seventh Avenue and West 34th Street	458	138	0.99	1,376	255	0.95	No Impact
U7A/U7B	Connecting stairway (34th Street underpass and Downtown No. 1 platform)	368	126	0.41	368	119	0.40	No Impact
U9A/U9B	Connecting stairway (34th Street underpass and Uptown No. 1 platform)	347	170	0.44	488	196	0.58	No Impact
ML2/ML4	**Connecting stairway (33rd Street underpass and R139 free zone, reconstructed)**	**826**	**218**	**0.73**	**4,595**	**801**	**1.59**	**Impact**
ML5/ML7/ML9/ML11	Connecting stairway (33rd Street underpass and Downtown No. 1 platform, reconstructed)	466	19	0.71	1,081	119	0.71	No Impact
ML6/ML8	Connecting stairway (33rd Street underpass and Uptown No. 1 platform, reconstructed)	236	207	1.04	294	234	0.51	No Impact
ML9/ML11	Connecting stairway (33rd Street underpass and Downtown No. 1 platform, eliminated)	508	97	1.07	Eliminated in 2044 With Action Condition			
ML12A/ML12B	Connecting stairway (33rd Street underpass and No. 2/3 platform)	309	1,235	1.72	480	473	0.99	No Impact
ML14A/ML14B	Connecting stairway (33rd Street underpass and No. 2/3 platform)	741	1,137	2.00	1,012	421	1.42	No Impact
O5/O6	Connecting stairway (32nd Street underpass and Downtown No. 1 platform, reconstructed)	688	61	1.63	1,066	66	1.00	No Impact
O8	Connecting stairway (32nd Street underpass and Uptown No. 1 platform, reconstructed)	383	231	0.70	664	386	0.51	No Impact
O9	Connecting stairway (32nd Street underpass and Uptown No. 1 platform, reconstructed)	239	104	0.56	516	152	0.60	No Impact
O10	Connecting stairway (32nd Street underpass and Uptown No. 1 platform, reconstructed)	137	128	0.52	278	281	0.60	No Impact
O14/O15	Street stair at Northeast Corner of Seventh Avenue and West 32nd Street (reconstructed)	383	109	0.40	404	87	0.27	No Impact
O17/P3	Street stair at Southeast Corner of Seventh Avenue and West 33rd Street (reconstructed)	714	107	0.64	1,051	92	0.62	No Impact
O18/O19	Street stair at Northeast Corner of Seventh Avenue and West 33rd Street (reconstructed)	190	51	0.37	428	169	0.51	No Impact
U3A/U3B	Connecting stairway (32nd Street underpass and No. 2/3 platform)	616	1,506	2.19	888	721	1.56	No Impact
NEW-V2A	**New connecting stairway (32nd Street underpass and No. 2/3 platform)**				**888**	**721**	**1.56**	**Impact**
NEW-V2B	**New connecting stairway (33rd Street underpass and No. 2/3 platform)**				**0**	**1,541**	**1.57**	**Impact**
U4A/U4B	**Connecting stairway (34th Street underpass and No. 2/3 platform)**	**735**	**201**	**0.65**	**284**	**1,093**	**1.12**	**Impact**
U10/U14	Connecting stairway (32nd Street underpass, reconstructed)	218	1,400	1.27	232	1,417	0.78	No Impact
NEW-V7	New street stair at south sidewalk of West 33rd Street between Sixth Avenue and Seventh Avenue				277	27	0.18	No Impact
NEW-PSG33	33rd Street passageway between Seventh Avenue station and NEW-V7				2,255	688	0.76	No Impact
NEW-PSG-SITE6	North-South passageway underneath Site 6				1,450	165	0.37	No Impact
NEW-PennToR142	New connecting stairway from Penn Station Level A to R142 free zone				155	2,007	0.70	No Impact
NEW-PennToStreet	New street stair from Penn Station Level A to Southwest Corner of Seventh Avenue and West 34th Street				199	4	0.23	No Impact

Notes: The S2/P4 and ML9/ML11 stairs would no longer exist in the 2044 With Action Condition due to the construction of the project improvements.
This table is new to the FEIS.

Table MA-Ts23
2044 No Action and With Action Conditions
With 33rd Street East-West Connector and 34th Street Undercrossings
Level of Service Comparison—Subway Station Escalator Analysis
34th Street- Penn Station (Seventh Avenue)

Escalator	Location	Quantity	No Action Peak 15-Minute Volumes		With Action Peak 15-Minute Volumes		No Action V/C Ratio	With Action V/C Ratio	Impact Determination
			In to Station	Out from Station	In to Station	Out from Station			
Weekday AM Peak Hour									
NEW-PennToStreet	New street escalator connecting Penn Station Level A to street	2			53	0		0.03	No Impact
NEW-PennToStreet	New street escalator connecting Penn Station Level A to street	2			0	887		0.47	No Impact
Weekday PM Peak Hour									
NEW-PennToStreet	New street escalator connecting Penn Station Level A to street	2			663	0		0.35	No Impact
NEW-PennToStreet	New street escalator connecting Penn Station Level A to street	2			0	48		0.03	No Impact

Note: This table is new to the FEIS.

Table MA-Ts24
2044 No Action and With Action Conditions
With 33rd Street East-West Connector and 34th Street Undercrossings
Level of Service Comparison—Subway Station Fare Control Analysis
34th Street- Penn Station (Seventh Avenue)

Fare Control Elements	Quantity	No Action Peak 15-Minute Volumes		With Action Peak 15-Minute Volumes		No Action V/C Ratio	With Action V/C Ratio	Impact Determination
		In to Station	Out from Station	In to Station	Out from Station			
Weekday AM Peak Hour								
West 34th Street and Seventh Avenue - West (R142)								
Two-Way Turnstiles	4	120	562	158	589	0.40	0.44	No Impact
HEET	2	11	171	15	179	0.26	0.28	No Impact
West 34th Street / Seventh Avenue from Penn Level A - West (NEW)								
Two-Way Turnstiles	5			452	206		0.33	No Impact
West 34th Street and Seventh Avenue - East (R141)								
Two-Way Turnstiles	7	106	397	108	490	0.17	0.20	No Impact
West 33rd Street and Seventh Avenue - West (R140, reconstructed)								
Two-Way Turnstiles	4	46	240	46	336	0.22	0.22	No Impact
West 33rd Street and Seventh Avenue - East (R139, reconstructed)								
Two-Way Turnstiles	11	468	48	547	61	0.34	0.14	No Impact
HEET	1	14	26	17	33	0.13	0.16	No Impact
West 33rd Street and Seventh Avenue - East (R138, reconstructed)								
Two-Way Turnstiles	12	3,295	1,155	2,918	820	0.93	0.79	No Impact
West 33rd Street and Seventh Avenue - East (R138-South, NEW)								
Two-Way Turnstiles	3			0	1,249		0.81	No Impact
West 32nd Street / Seventh Avenue - East (R137, reconstructed)								
Two-Way Turnstiles	9	56	380	58	721	0.34	0.20	No Impact
West 32nd Street and Seventh Avenue - East (R135, reconstructed)								
Two-Way Turnstiles	**10**	**1,949**	**787**	**3,655**	**1,115**	**1.14**	**1.21**	**Impact**
West 32nd Street / Seventh Avenue - West -NEW at Southbound Local Platform								
Two-Way Turnstiles	5			55	56		0.05	No Impact
Weekday PM Peak Hour								
West 34th Street and Seventh Avenue - West (R142)								
Two-Way Turnstiles	4	549	149	550	208	0.45	0.48	No Impact
HEET	2	40	43	40	60	0.15	0.17	No Impact
West 34th Street / Seventh Avenue from Penn Level A - West (NEW)								
Two-Way Turnstiles	5			253	295		0.26	No Impact
West 34th Street and Seventh Avenue - East (R141)								
Two-Way Turnstiles	7	731	183	837	188	0.34	0.38	No Impact
West 33rd Street and Seventh Avenue - West (R140, reconstructed)								
Two-Way Turnstiles	4	132	110	172	115	0.20	0.18	No Impact
West 33rd Street and Seventh Avenue - East (R139, reconstructed)								
Two-Way Turnstiles	11	237	212	290	258	0.28	0.12	No Impact
HEET	1	6	65	7	79	0.20	0.25	No Impact
West 33rd Street and Seventh Avenue - East (R138, reconstructed)								
Two-Way Turnstiles	12	1,261	3,320	1,622	1,972	0.87	0.71	No Impact
West 33rd Street and Seventh Avenue - East (R138-South, NEW)								
Two-Way Turnstiles	3			0	1,541		1.00	No Impact
West 32nd Street / Seventh Avenue - East (R137, reconstructed)								
Two-Way Turnstiles	9	383	88	578	113	0.41	0.20	No Impact
West 32nd Street and Seventh Avenue - East (R135, reconstructed)								
Two-Way Turnstiles	10	526	2,241	1,733	2,663	1.04	1.03	No Impact
West 32nd Street / Seventh Avenue - West -NEW at Southbound Local Platform								
Two-Way Turnstiles	5			10	160		0.07	No Impact

Note: This table is new to the FEIS.

Table MA-Ts25
34th Street – Penn Station (Seventh Avenue)
With 33rd Street East-West Connector and 34th Street Undercrossings
Stairway Analysis - 2044 With Action Mitigation Condition

Subway Stair	With Action Width (ft)	2044 Mitigation Width (ft)	2044 No Action V/C Ratio	2044 With Action V/C Ratio	2044 Mitigation v/c ratio	Potential Mitigation Measures
Weekday AM Peak Hour						
ML2/ML4	25.00	-	0.82	1.47	1.47	Unmitigated (due to obstructing columns)
NEW-V2A	10.25	-	-	1.67	1.67	Unmitigated (due to obstructing columns)
NEW-V2B	10.00	-	-	1.27	1.27	Unmitigated (due to obstructing columns)
Weekday PM Peak Hour						
P7/S5	15.00	-	0.90	1.24	1.24	Unmitigated (due to design constraints)
ML2/ML4	25.00	-	0.73	1.59	1.59	Unmitigated (due to obstructing columns)
NEW-V2A	10.25	-	-	1.56	1.56	Unmitigated (due to obstructing columns)
NEW-V2B	10.00	-	-	1.57	1.57	Unmitigated (due to obstructing columns)
U4A/U4B	13.00	-	-	1.12	1.12	Unmitigated (due to obstructing columns)

Note: This table is new to the FEIS.

Table MA-Ts26
2044 No Action and With Action Conditions
With 32nd Street East-West Connector and 34th Street Undercrossings
Level of Service Comparison—Subway Station Stair Analysis
34th Street-Penn Station (Seventh Avenue)

Subway Stair	Location	No Action Peak15-Minute Volumes		No Action V/C Ratio	With Action Peak 15-Minute Volumes		With Action V/C Ratio	Impact Determination
		In to Station	Out from Station		In to Station	Out from Station		
Weekday AM Peak Hour								
S1/P1A/P1B/P2	Street stair at Northwest Corner of Seventh Avenue and West 33rd Street (reconstructed)	42	237	0.39	45	332	0.34	No Impact
S2/P4	Street stair at Northeast Corner of Seventh Avenue and West 33rd Street (eliminated)	53	244	0.54	Eliminated in 2044 With Action Condition			
S3/P5A/P5B	Street stair at Southwest Corner of Seventh Avenue and West 34th Street (reconstructed)	30	192	0.39	61	392	0.42	No Impact
P6A/P6B	Street stair at Southeast Corner of Seventh Avenue and West 34th Street (reconstructed)	43	100	0.13	150	816	0.56	No Impact
P7/S5	Street stair at Northwest Corner of Seventh Avenue and West 34th Street	95	541	1.13	181	1,025	0.75	No Impact
P8/S6	Street stair at Northeast Corner of Seventh Avenue and West 34th Street	60	296	0.63	124	955	0.68	No Impact
U7A/U7B	Connecting stairway (34th Street underpass and Downtown No. 1 platform)	78	372	0.37	82	364	0.37	No Impact
U9A/U9B	Connecting stairway (34th Street underpass and Uptown No. 1 platform)	62	362	0.36	68	539	0.52	No Impact
ML2/ML4	Connecting stairway (33rd Street underpass and R139 free zone, reconstructed)	69	1,139	0.82	277	2,353	0.74	No Impact
ML5/ML7/ML9/ML11	Connecting stairway (33rd Street underpass and Downtown No. 1 platform, reconstructed)	89	160	0.47	219	510	0.50	No Impact
ML6/ML8	Connecting stairway (33rd Street underpass and Uptown No. 1 platform, reconstructed)	42	822	2.03	44	915	0.94	No Impact
ML9/ML11	Connecting stairway (33rd Street underpass and Downtown No. 1 platform, eliminated)	111	311	0.86	Eliminated in 2044 With Action Condition			
ML12A/ML12B	Connecting stairway (33rd Street underpass and No. 2/3 platform)	811	756	1.62	652	457	1.13	No Impact
ML14A/ML14B	Connecting stairway (33rd Street underpass and No. 2/3 platform)	1,711	419	2.06	1,194	256	1.39	No Impact
O5/O6	Connecting stairway (32nd Street underpass and Downtown No. 1 platform, reconstructed)	188	209	0.96	360	337	0.68	No Impact
O8	Connecting stairway (32nd Street underpass and Uptown No. 1 platform, reconstructed)	61	1,186	1.20	82	1,636	0.70	No Impact
O9	Connecting stairway (32nd Street underpass and Uptown No. 1 platform, reconstructed)	41	314	0.62	45	752	0.77	No Impact
O10	Connecting stairway (32nd Street underpass and Uptown No. 1 platform, reconstructed)	21	872	1.42	39	1,100	1.00	No Impact
O14/O15	Street stair at Northeast Corner of Seventh Avenue and West 32nd Street (reconstructed)	56	475	0.47	129	895	0.61	No Impact
O17/P3	Street stair at Southeast Corner of Seventh Avenue and West 33rd Street (reconstructed)	30	555	0.45	252	351	0.35	No Impact
O18/O19	Street stair at Northeast Corner of Seventh Avenue and West 33rd Street (reconstructed)	23	288	0.52	280	508	0.70	No Impact
U3A/U3B	Connecting stairway (32nd Street underpass and No. 2/3 platform)	1,117	1,051	2.12	1,099	575	1.58	No Impact
NEW-V2A	**New connecting stairway (32nd Street underpass and No. 2/3 platform)**				1,099	575	1.58	**Impact**
NEW-V2B	**New connecting stairway (33rd Street underpass and No. 2/3 platform)**				0	1,228	1.25	**Impact**
U4A/U4B	Connecting stairway (34th Street underpass and No. 2/3 platform)	115	689	0.67	352	872	0.98	No Impact
U10/U14	Connecting stairway (32nd Street underpass, reconstructed)	1,561	335	1.32	1,600	634	0.96	No Impact
NEW-V7	New street stair at south sidewalk of West 33rd Street between Sixth Avenue and Seventh Avenue				9	179	0.12	No Impact
NEW-PSG33	**33rd Street passageway between Seventh Avenue station and NEW-V7**				**1,148**	**3,654**	**1.25**	**Impact**
NEW-PSG-SITE6	North-South passageway underneath Site 6				136	1,281	0.32	No Impact
NEW-PennToR142	New connecting stairway from Penn Station Level A to R142 free zone				712	123	0.23	No Impact
NEW-PennToStreet	New street stair from Penn Station Level A to Southwest Corner of Seventh Avenue and West 34th Street				13	81	0.15	No Impact

Table MA-Ts26 (continued)
2044 No Action and With Action Conditions
With 32nd Street East-West Connector and 34th Street Undercrossings
Level of Service Comparison—Subway Station Stair Analysis
34th Street-Penn Station (Seventh Avenue)

Subway Stair	Location	No Action Peak15-Minute Volumes		No Action V/C Ratio	With Action Peak 15-Minute Volumes		With Action V/C Ratio	Impact Determination
		In to Station	Out from Station		In to Station	Out from Station		
Weekday PM Peak Hour								
S1/P1A/P1B/P2	Street stair at Northwest Corner of Seventh Avenue and West 33rd Street (reconstructed)	130	107	0.32	172	112	0.24	No Impact
S2/P4	Street stair at Northeast Corner of Seventh Avenue and West 33rd Street (eliminated)	215	137	0.62	Eliminated in 2044 With Action Condition			
S3/P5A/P5B	Street stair at Southwest Corner of Seventh Avenue and West 34th Street (reconstructed)	180	54	0.39	606	58	0.57	No Impact
P6A/P6B	Street stair at Southeast Corner of Seventh Avenue and West 34th Street (reconstructed)	268	44	0.27	988	206	0.64	No Impact
P7/S5	**Street stair at Northwest Corner of Seventh Avenue and West 34th Street**	**402**	**137**	**0.90**	**1,866**	**282**	**1.24**	**Impact**
P8/S6	Street stair at Northeast Corner of Seventh Avenue and West 34th Street	458	138	0.99	1,491	259	1.01	No Impact
U7A/U7B	Connecting stairway (34th Street underpass and Downtown No. 1 platform)	368	126	0.41	368	119	0.40	No Impact
U9A/U9B	Connecting stairway (34th Street underpass and Uptown No. 1 platform)	347	170	0.44	481	192	0.57	No Impact
ML2/ML4	Connecting stairway (33rd Street underpass and R139 free zone, reconstructed)	826	218	0.73	2,188	561	0.81	No Impact
ML5/ML7/ML9/ML11	Connecting stairway (33rd Street underpass and Downtown No. 1 platform, reconstructed)	466	19	0.71	1,081	118	0.71	No Impact
ML6/ML8	Connecting stairway (33rd Street underpass and Uptown No. 1 platform, reconstructed)	236	207	1.04	288	230	0.50	No Impact
ML9/ML11	Connecting stairway (33rd Street underpass and Downtown No. 1 platform, eliminated)	508	97	1.07	Eliminated in 2044 With Action Condition			
ML12A/ML12B	Connecting stairway (33rd Street underpass and No. 2/3 platform)	309	1,235	1.72	466	446	0.95	No Impact
ML14A/ML14B	Connecting stairway (33rd Street underpass and No. 2/3 platform)	741	1,137	2.00	983	396	1.36	No Impact
O5/O6	Connecting stairway (32nd Street underpass and Downtown No. 1 platform, reconstructed)	688	61	1.63	946	53	0.79	No Impact
O8	Connecting stairway (32nd Street underpass and Uptown No. 1 platform, reconstructed)	383	231	0.70	650	378	0.50	No Impact
O9	Connecting stairway (32nd Street underpass and Uptown No. 1 platform, reconstructed)	239	104	0.56	503	144	0.58	No Impact
O10	Connecting stairway (32nd Street underpass and Uptown No. 1 platform, reconstructed)	137	128	0.52	265	273	0.57	No Impact
O14/O15	Street stair at Northeast Corner of Seventh Avenue and West 32nd Street (reconstructed)	383	109	0.40	913	166	0.59	No Impact
O17/P3	Street stair at Southeast Corner of Seventh Avenue and West 33rd Street (reconstructed)	714	107	0.64	986	72	0.57	No Impact
O18/O19	Street stair at Northeast Corner of Seventh Avenue and West 33rd Street (reconstructed)	190	51	0.37	383	190	0.49	No Impact
U3A/U3B	Connecting stairway (32nd Street underpass and No. 2/3 platform)	616	1,506	2.19	863	678	1.49	No Impact
NEW-V2A	**New connecting stairway (32nd Street underpass and No. 2/3 platform)**				**863**	**678**	**1.49**	**Impact**
NEW-V2B	**New connecting stairway (33rd Street underpass and No. 2/3 platform)**				**0**	**1,450**	**1.47**	**Impact**
U4A/U4B	**Connecting stairway (34th Street underpass and No. 2/3 platform)**	**735**	**201**	**0.65**	**276**	**1,029**	**1.06**	**Impact**
U10/U14	Connecting stairway (32nd Street underpass, reconstructed)	218	1,400	1.27	232	1,417	0.78	No Impact
NEW-V7	New street stair at south sidewalk of West 33rd Street between Sixth Avenue and Seventh Avenue				176	15	0.11	No Impact
NEW-PSG33	**33rd Street passageway between Seventh Avenue station and NEW-V7**				**3,254**	**1,208**	**1.16**	**Impact**
NEW-PSG-SITE6	North-South passageway underneath Site 6				1,489	278	0.40	No Impact
NEW-PennToR142	New connecting stairway from Penn Station Level A to R142 free zone				151	1,943	0.68	No Impact
NEW-PennToStreet	New street stair from Penn Station Level A to Southwest Corner of Seventh Avenue and West 34th Street				183	3	0.21	No Impact

Notes: The S2/P4 and ML9/ML11 stairs would no longer exist in the 2044 With Action Condition due to the construction of the project improvements.
This table is new to the FEIS.

Table MA-Ts27
2044 No Action and With Action Conditions
With 32nd Street East-West Connector and 34th Street Undercrossings
Level of Service Comparison—Subway Station Escalator Analysis
34th Street- Penn Station (Seventh Avenue)

Escalator	Location	Quantity	No Action Peak 15-Minute Volumes		With Action Peak 15-Minute Volumes		No Action V/C Ratio	With Action V/C Ratio	Impact Determination
			In to Station	Out from Station	In to Station	Out from Station			
Weekday AM Peak Hour									
NEW-PennToStreet	New street escalator connecting Penn Station Level A to street	2			43	0		0.02	No Impact
NEW-PennToStreet	New street escalator connecting Penn Station Level A to street	2			0	1083		0.58	No Impact
Weekday PM Peak Hour									
NEW-PennToStreet	New street escalator connecting Penn Station Level A to street	2			609	0		0.33	No Impact
NEW-PennToStreet	New street escalator connecting Penn Station Level A to street	2			0	46		0.02	No Impact

Note: This table is new to the FEIS.

Table MA-Ts28
2044 No Action and With Action Conditions
With 32nd Street East-West Connector and 34th Street Undercrossings
Level of Service Comparison—Subway Station Fare Control Analysis
34th Street- Penn Station (Seventh Avenue)

Fare Control Elements	Quantity	No Action Peak 15-Minute Volumes		With Action Peak 15-Minute Volumes		No Action V/C Ratio	With Action V/C Ratio	Impact Determination
		In to Station	Out from Station	In to Station	Out from Station			
Weekday AM Peak Hour								
West 34th Street and Seventh Avenue - West (R142)								
Two-Way Turnstiles	4	120	562	150	588	0.40	0.44	No Impact
HEET	2	11	171	14	179	0.26	0.28	No Impact
West 34th Street / Seventh Avenue from Penn Level A - West (NEW)								
Two-Way Turnstiles	5			452	206		0.33	No Impact
West 34th Street and Seventh Avenue - East (R141)								
Two-Way Turnstiles	7	106	397	108	490	0.17	0.20	No Impact
West 33rd Street and Seventh Avenue - West (R140, reconstructed)								
Two-Way Turnstiles	4	46	240	46	336	0.22	0.22	No Impact
West 33rd Street and Seventh Avenue - East (R139, reconstructed)								
Two-Way Turnstiles	11	468	48	524	57	0.14	0.14	No Impact
HEET	1	14	26	16	31	0.15	0.16	No Impact
West 33rd Street and Seventh Avenue - East (R138, reconstructed)								
Two-Way Turnstiles	12	3,295	1,155	2,776	797	0.93	0.76	No Impact
West 33rd Street and Seventh Avenue - East (R138-South, NEW)								
Two-Way Turnstiles	3			0	1,228		0.79	No Impact
West 32nd Street / Seventh Avenue - East (R137, reconstructed)								
Two-Way Turnstiles	9	56	380	58	721	0.34	0.20	No Impact
West 32nd Street and Seventh Avenue - East (R135, reconstructed)								
Two-Way Turnstiles	10	1,949	787	3,304	1,055	1.14	1.10	No Impact
West 32nd Street / Seventh Avenue - West -NEW at Southbound Local Platform								
Two-Way Turnstiles	5			51	54		0.05	No Impact
Weekday PM Peak Hour								
West 34th Street and Seventh Avenue - West (R142)								
Two-Way Turnstiles	4	549	149	546	188	0.45	0.47	No Impact
HEET	2	40	43	40	54	0.15	0.16	No Impact
West 34th Street / Seventh Avenue from Penn Level A - West (NEW)								
Two-Way Turnstiles	5			253	295		0.26	No Impact
West 34th Street and Seventh Avenue - East (R141)								
Two-Way Turnstiles	7	731	183	837	188	0.34	0.38	No Impact
West 33rd Street and Seventh Avenue - West (R140, reconstructed)								
Two-Way Turnstiles	4	132	110	172	115	0.20	0.18	No Impact
West 33rd Street and Seventh Avenue - East (R139, reconstructed)								
Two-Way Turnstiles	11	237	212	288	437	0.28	0.16	No Impact
HEET	1	6	65	7	134	0.20	0.40	No Impact
West 33rd Street and Seventh Avenue - East (R138, reconstructed)								
Two-Way Turnstiles	12	1,261	3,320	1,586	1,853	0.87	0.68	No Impact
West 33rd Street and Seventh Avenue - East (R138-South, NEW)								
Two-Way Turnstiles	3			0	1,450		0.94	No Impact
West 32nd Street / Seventh Avenue - East (R137, reconstructed)								
Two-Way Turnstiles	9	383	88	578	113	0.41	0.20	No Impact
West 32nd Street and Seventh Avenue - East (R135, reconstructed)								
Two-Way Turnstiles	10	526	2,241	2,071	1,654	1.04	0.90	No Impact
West 32nd Street / Seventh Avenue - West -NEW at Southbound Local Platform								
Two-Way Turnstiles	5			8	142		0.07	No Impact

Note: This table is new to the FEIS.

Table MA-Ts29
34th Street – Penn Station (Seventh Avenue)
With 32nd Street East-West Connector and 34th Street Undercrossings
Stairway Analysis - 2044 With Action Mitigation Condition

Subway Stair	With Action Width (ft)	2044 Mitigation Width (ft)	2044 No Action V/C Ratio	2044 With Action V/C Ratio	2044 Mitigation v/c ratio	Potential Mitigation Measures
Weekday AM Peak Hour						
NEW-V2A	10.25	-	-	1.58	1.58	Unmitigated (due to obstructing columns)
NEW-V2B	10.00	-	-	1.25	1.25	Unmitigated (due to obstructing columns)
NEW-PSG32	22.00	-	-	1.25	1.25	Unmitigated (due to design constraints)
Weekday PM Peak Hour						
P7/S5	15.00	-	0.90	1.24	1.24	Unmitigated (due to design constraints)
NEW-V2A	10.25	-	-	1.49	1.49	Unmitigated (due to obstructing columns)
NEW-V2B	10.00	-	-	1.47	1.47	Unmitigated (due to obstructing columns)
U4A/U4B	13.00	-	-	1.06	1.06	Unmitigated (due to obstructing columns)

Note: This table is new to the FEIS.

Pedestrians

Pedestrians Tables

Table MA-P1a
2033 No Action, With Action, and Mitigation Conditions Sidewalk Analysis
Weekday AM Peak Hour

Intersection	Sidewalk	Recommended Mitigation Measures	Mitigation Effectiveness	2033 No Action		2033 With Action		2033 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Sixth Avenue and West 31st Street	West sidewalk along Sixth Avenue between West 31st Street and West 32nd Street	None	Unmitigated	25.1	D	22.5	E	22.5	E
Sixth Avenue, Broadway and West 33rd Street	South sidewalk along West 33rd Street between Sixth Avenue and Seventh Avenue-East end	None	Unmitigated	43.2	C	30.3	D	30.3	D
Sixth Avenue, Broadway and West 34th Street	East sidewalk along Sixth Avenue between West 34th Street and West 35th Street	None	Unmitigated	38.5	D	32.8	D	32.8	D

Note: This table has been revised for the FEIS.

Table MA-P1b
2033 No Action, With Action, and Mitigation Conditions Sidewalk Analysis
Weekday Midday Peak Hour

Intersection	Sidewalk	Recommended Mitigation Measures	Mitigation Effectiveness	2033 No Action		2033 With Action		2033 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Sixth Avenue, Broadway and West 33rd Street	East sidewalk along Sixth Avenue between West 33rd Street and West 34th Street	None	Unmitigated	27.1	D	24.4	D	24.4	D
Seventh Avenue and West 30th Street	North sidewalk along West 30th Street between Seventh Avenue and Eighth Avenue-East end	None	Unmitigated	45.4	C	28.1	D	28.1	D

This table has been revised for the FEIS.

Table MA-P1c
2033 No Action, With Action, and Mitigation Conditions Sidewalk Analysis
Weekday PM Peak Hour

Intersection	Sidewalk	Recommended Mitigation Measures	Mitigation Effectiveness	2033 No Action		2033 With Action		2033 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Sixth Avenue and West 31st Street	West sidewalk along Sixth Avenue between West 31st Street and West 32nd Street	None	Unmitigated	24.9	D	19.5	E	19.5	E
Sixth Avenue, Broadway and West 33rd Street	North sidewalk along West 33rd Street between Sixth Avenue and Seventh Avenue-East end	None	Unmitigated	30.7	D	25.3	D	25.3	D
	South sidewalk along West 33rd Street between Sixth Avenue and Seventh Avenue-East end	None	Unmitigated	71.3	C	26.2	D	26.2	D
	East sidewalk along Sixth Avenue between West 33rd Street and West 34th Street	None	Unmitigated	27.7	D	21.6	E	21.6	E
	West sidewalk along Sixth Avenue between West 33rd Street and West 34th Street	None	Unmitigated	47.5	C	29.2	D	29.2	D

Table MA-P1c (continued)
2033 No Action, With Action, and Mitigation Conditions Sidewalk Analysis
Weekday PM Peak Hour

Intersection	Sidewalk	Recommended Mitigation Measures	Mitigation Effectiveness	2033 No Action		2033 With Action		2033 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Seventh Avenue and West 30th Street	West sidewalk along Seventh Avenue between West 30th Street and West 31st Street-South end	None	Unmitigated	38.8	D	31.2	D	31.2	D
Seventh Avenue and West 31st Street	West sidewalk along Seventh Avenue between West 30th Street and West 31st Street-North end	None	Unmitigated	38.8	D	31.0	D	31.0	D
	North sidewalk along West 31st Street between Sixth Avenue and Seventh Avenue-West end	None	Unmitigated	62.1	C	23.2	D	23.2	D
Seventh Avenue and West 33rd Street	North sidewalk along West 33rd Street between Sixth Avenue and Seventh Avenue-West end	None	Unmitigated	16.4	E	13.5	E	13.5	E

Note: This table has been revised for the FEIS.

Table MA-P2
2033 No Action, With Action, and Mitigation Conditions Corner Analysis
Weekday PM Peak Hour

Intersection	Corner	Recommended Mitigation Measures	Mitigation Effectiveness	2033 No Action		2033 With Action		2033 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Sixth Avenue and West 31st Street	Northeast	Relocate trash can and restaurant sign	Partially Mitigated	21.1	D	12.2	E	12.9	E
	Northwest	None	Unmitigated	19.6	D	14.3	E	14.3	E
Seventh Avenue and West 31st Street	Southwest	None	Temporarily Unmitigated (corner area would be expanded in 2044 With Action)	31.9	C	16.8	D	16.8	D
Eighth Avenue and West 40th Street	Southeast	Relocate trash can	Fully Mitigated	4.4	F	4.2	F	4.5	F

Note: This table is new to the FEIS.

Table MA-P3a
2033 No Action, With Action, and Mitigation Conditions Crosswalk Analysis
Weekday AM Peak Hour

Intersection	Crosswalk	Recommended Mitigation Measures	Mitigation Effectiveness	2033 No Action		2033 With Action		2033 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Mitigation Measures for Pedestrian Impacts									
Sixth Avenue and West 32nd Street	West	Shift 2 seconds of green time from northbound phase to eastbound phase (traffic mitigation). Increase crosswalk width by 1.3 feet	Partially Mitigated	13.1	E	9.9	E	10.3	E
Sixth Broadway and West 33rd Street	North	None	Unmitigated	20.4	D	18.5	D	18.5	D
	West	Increase crosswalk width by 2.7 feet	Fully Mitigated	16.3	D	14.0	E	16.1	D
Seventh Avenue and West 31st Street	South	None	Unmitigated	18.5	D	16.4	D	16.4	D
Seventh Avenue and West 33rd Street	South	Shift 2 seconds of green time from southbound phase to westbound phase (traffic mitigation).	Partially Mitigated	16.0	D	7.3	F	8.6	E
Eighth Avenue and West 31st Street	West	Increase crosswalk width by 2.4 feet	Fully Mitigated	8.7	E	7.6	F	8.4	E

Notes:
This table has been revised for the FEIS.

Table MA-P3b
2033 No Action, With Action, and Mitigation Conditions Crosswalk Analysis
Weekday Midday Peak Hour

Intersection	Crosswalk	Recommended Mitigation Measures	Mitigation Effectiveness	2033 No Action		2033 With Action		2033 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Mitigation Measures for Pedestrian Impacts									
Sixth Avenue and West 32nd Street	North	Shift 1 second from northbound phase to the eastbound phase (traffic mitigation)	Fully Mitigated	20.8	D	18.5	D	19.4	D
	West	Shift 1 second from northbound phase to the eastbound phase (traffic mitigation). Increase crosswalk width by 1.3 feet	Fully Mitigated	20.3	D	17.7	D	18.9	D
Sixth Avenue, Broadway and West 33rd Street	West	Increase crosswalk width by 2.7 feet	Partially Mitigated	16.9	D	13.3	E	15.2	D
Seventh Avenue and West 31st Street	North	None	Unmitigated	16.3	D	13.1	E	13.1	E
	East	Increase crosswalk width by 2.2 feet	Fully Mitigated	12.6	E	9.8	E	11.6	E
	South	None	Unmitigated	15.3	D	10.6	E	10.6	E
	West	Increase crosswalk width by 5.8 feet	Fully Mitigated	5.7	F	4.2	F	5.7	F
Seventh Avenue and West 32nd Street	East	Shift 3 seconds from all-pedestrian phase to southbound phase (traffic mitigation)	Unmitigated	11.7	E	7.4	F	6.0	F
Seventh Avenue and West 33rd Street	South	Shift 2 seconds of green time from southbound phase to westbound phase (traffic mitigation)	Unmitigated	19.3	D	12.7	E	14.7	E
Eighth Avenue and West 31st Street	East	None	Unmitigated	14.2	E	12.6	E	12.6	E
	South	None	Unmitigated	22.2	D	15.7	D	15.7	D
	West	Increase crosswalk width by 2.4 feet	Fully Mitigated	11.7	E	9.8	E	10.8	E
Eighth Avenue and West 33rd Street	East	Increase crosswalk width by 0.6 feet	Fully Mitigated	8.3	E	7.4	F	7.8	F
	West	Increase crosswalk width by 0.5 feet	Fully Mitigated	5.2	F	4.8	F	5.0	F
Eighth Avenue and West 34th Street	South	None	Unmitigated	8.5	E	7.7	F	7.7	F

Notes:
This table has been revised for the FEIS.

Table MA-P3c
2033 No Action, With Action, and Mitigation Conditions Crosswalk Analysis
Weekday PM Peak Hour

Intersection	Crosswalk	Recommended Mitigation Measures	Mitigation Effectiveness	2033 No Action		2033 With Action		2033 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Mitigation Measures for Pedestrian Impacts									
Sixth Avenue and West 31st Street	North	None	Unmitigated	7.1	F	4.7	F	4.7	F
	South	Increase south crosswalk width by 0.5 feet.	Partially Mitigated	15.6	D	12.3	E	13.0	E
Sixth Avenue and West 32nd Street	North	None	Unmitigated	8.8	E	7.5	F	7.5	F
	East	None	Unmitigated	22.8	D	17.1	D	17.1	D
	West	Increase crosswalk width by 1.3 feet	Partially Mitigated	24.1	C	14.8	E	16.4	D
Sixth Avenue, Broadway and West 33rd Street	North	None	Unmitigated	17.7	D	12.8	E	12.8	E
	South	None	Unmitigated	11.0	E	8.3	E	8.3	E
	West	Increase crosswalk width by 2.7 feet	Partially Mitigated	11.6	E	7.3	F	8.4	E
Sixth Avenue, Broadway and West 34th Street	East	Shift 2 seconds from northbound phase (Phase A) to eastbound/westbound/westbound left phase (Phase C) (traffic mitigation).	Unmitigated	12.6	E	11.1	E	10.4	E
	South	Shift 2 seconds from northbound phase (Phase A) to eastbound/westbound/westbound left phase (Phase C) (traffic mitigation).	Fully Mitigated	16.5	D	14.7	E	15.8	D
Seventh Avenue and West 29th Street	West	Increase crosswalk width by 0.8 feet	Partially Mitigated	11.6	E	8.5	E	9.0	E
Seventh Avenue and West 30th Street	West	Increase crosswalk width by 2.7 feet	Fully Mitigated	9.6	E	7.4	F	9.0	E
Seventh Avenue and West 31st Street	North	None	Unmitigated	6.2	F	3.1	F	3.1	F
	South	None	Unmitigated	15.1	D	10.0	E	10.0	E
	West	Increase crosswalk width by 5.8 feet	Partially Mitigated	2.9	F	1.9	F	2.7	F
Seventh Avenue and West 34th Street	West	Shift 2 seconds from southbound phase to eastbound/westbound phase (traffic mitigation). Increase west crosswalk width by 3 feet	Partially Mitigated	17.9	D	11.3	E	11.6	E

Table MA-P3c (continued)
2033 No Action, With Action, and Mitigation Conditions Crosswalk Analysis
Weekday PM Peak Hour

Intersection	Crosswalk	Recommended Mitigation Measures	Mitigation Effectiveness	2033 No Action		2033 With Action		2033 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Mitigation Measures for Pedestrian Impacts									
Seventh Avenue and West 35th Street	West	None	Unmitigated	12.5	E	10.9	E	10.9	E
Eighth Avenue and West 31st Street	West	Increase crosswalk width by 2.4 feet	Fully Mitigated	7.7	F	6.6	F	7.3	F
Mitigation Measures for Pedestrian Impacts caused by Traffic Mitigation Measures									
Sixth Avenue and West 35th Street	East	Increase crosswalk width by 0.2 feet	Fully Mitigated	11.1	E	10.2*	E*	10.4	E

*__Notes__: SFP/LOS reported for the 2033 With Action with Traffic Mitigation Measures
This table has been revised for the FEIS.

Table MA-P4a
2044 No Action, With Action, and Mitigation Conditions Sidewalk Analysis
Weekday AM Peak Hour

Intersection	Sidewalk	Recommended Mitigation Measures	Mitigation Effectiveness	2044 No Action		2044 With Action		2044 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Sixth Avenue and West 30th Street	North sidewalk along West 30th Street between Sixth Avenue and Seventh Avenue-East end	None	Unmitigated	36.6	D	14.6	E	14.6	E
Sixth Avenue and 31st Street	South sidewalk along West 31st Street between Sixth Avenue and Seventh Avenue-East end	None	Unmitigated	42.6	C	10.5	F	10.5	F
	West sidewalk along Sixth Avenue between West 31st Street and West 32nd Street	None	Unmitigated	25.7	D	8.9	F	8.9	F
Sixth Avenue, Broadway and 34th Street	East sidewalk along Sixth Avenue between West 34th Street and West 35th Street	None	Unmitigated	34.9	D	24.2	D	24.2	D
	South sidewalk along West 34th Street between Broadway and Seventh Avenue	None	Unmitigated	27.8	D	14.3	E	14.3	E
Seventh Avenue and West 30th Street	West sidewalk along Seventh Avenue between West 29th Street and West 30th Street	None	Unmitigated	50.5	C	25.6	D	25.6	D
Seventh Avenue and West 31st Street	North sidewalk along West 31st Street between Sixth Avenue and Seventh Avenue-West end	None	Unmitigated	91.8	B	14.3	E	14.3	E
	South sidewalk along West 31st Street between Sixth Avenue and Seventh Avenue-West end	None	Unmitigated	68.4	C	23.2	D	23.2	D
Seventh Avenue and 34th Street	South sidewalk along West 34th Street between Broadway and Seventh Avenue-West end	None	Unmitigated	48.1	C	25.1	D	25.1	D
Eighth Avenue and 33rd Street	East sidewalk along Eighth Avenue between West 33rd Street and West 34th Street-South end	None	Unmitigated	28.3	D	25.6	D	25.6	D
Eighth Avenue and 34th Street	East sidewalk along Eighth Avenue between West 34th Street and West 35th Street-South end	None	Unmitigated	26.7	D	23.4	D	23.4	D
Eighth Avenue and 35th Street	East sidewalk along Eighth Avenue between West 34th Street and West 35th Street-North end	None	Unmitigated	29.2	D	25.6	D	25.6	D
	East sidewalk along Eighth Avenue between West 35th Street and West 36th Street	Remove potted plant.	Fully Mitigated	21.8	E	18.9	E	22.2	E
Eighth Avenue and 36th Street	East sidewalk along Eighth Avenue between West 36th Street and West 37th Street	None	Unmitigated	16.3	E	14.5	E	14.5	E
Eighth Avenue and 37th Street	East sidewalk along Eighth Avenue between West 37th Street and West 38th Street	None	Unmitigated	21.9	E	19.0	E	19.0	E
Eighth Avenue and 39th Street	East sidewalk along Eighth Avenue between West 39th Street and West 40th Street	None	Unmitigated	13.2	E	11.9	E	11.9	E
Ninth Avenue and West 31st Street	South sidewalk along West 31st Street between Eighth Avenue and Ninth Avenue - West end	None	Unmitigated	24.9	D	18.6	E	18.6	E
Ninth Avenue and West 33rd Street	South sidewalk along West 33rd Street between Eighth Avenue and Ninth Avenue	None	Unmitigated	18.6	E	14.9	E	14.9	E

Note: This table has been revised for the FEIS.

Table MA-P4b
2044 No Action, With Action, and Mitigation Conditions Sidewalk Analysis
Weekday Midday Peak Hour

Intersection	Sidewalk	Recommended Mitigation Measures	Mitigation Effectiveness	2044 No Action		2044 With Action		2044 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Sixth Avenue and 30th Street	North sidewalk along West 30th Street between Sixth Avenue and Seventh Avenue-East end	None	Unmitigated	41.9	C	27.4	D	27.4	D
Sixth Avenue and 31st Street	West sidewalk along Sixth Avenue between West 31st Street and West 32nd Street	None	Unmitigated	34.1	D	25.6	D	25.6	D
Sixth Avenue, Broadway and 33rd Street	East sidewalk along Sixth Avenue between West 33rd Street and West 34th Street	None	Unmitigated	27.2	D	21.2	E	21.2	E
Sixth Avenue, Broadway and West 34th Street	South sidewalk along West 34th Street between Broadway and Seventh Avenue	None	Unmitigated	27.8	D	21.9	E	21.9	E
Eighth Avenue and 33rd Street	North sidewalk along West 33rd Street between Seventh Avenue and Eighth Avenue-West end	Remove potted plant.	Partially Mitigated	38.2	D	22.9	E	26.7	D
Eighth Avenue and 34th Street	East sidewalk along Eighth Avenue between West 34th Street and West 35th Street-South end	None	Unmitigated	30.5	D	27.6	D	27.6	D

Note: This table has been revised for the FEIS.

Table MA-P4c
2044 No Action, With Action, and Mitigation Conditions Sidewalk Analysis
Weekday PM Peak Hour

Intersection	Sidewalk	Recommended Mitigation Measures	Mitigation Effectiveness	2044 No Action		2044 With Action		2044 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Sixth Avenue and West 30th Street	North sidewalk along West 30th Street between Sixth Avenue and Seventh Avenue-East end	None	Unmitigated	19.5	E	10.6	F	10.6	F
Sixth Avenue and West 31st Street	South sidewalk along West 31st Street between Sixth Avenue and Seventh Avenue-East end	None	Unmitigated	73.0	C	20.5	E	20.5	E
	West sidewalk along Sixth Avenue between West 31st Street and West 32nd Street	None	Unmitigated	24.5	D	12.7	E	12.7	E
Sixth Avenue, Broadway and 33rd Street	East sidewalk along Sixth Avenue between West 33rd Street and West 34th Street	None	Unmitigated	26.1	D	21.8	E	21.8	E
Sixth Avenue, Broadway and 34th Street	South sidewalk along West 34th Street between Broadway and Seventh Avenue	None	Unmitigated	21.8	E	10.9	F	10.9	F
Seventh Avenue and West 30th Street	West sidewalk along Seventh Avenue between West 29th Street and West 30th Street	None	Unmitigated	39.0	D	27.7	D	27.7	D
Seventh Avenue and West 31st Street	North sidewalk along West 31st Street between Sixth Avenue and Seventh Avenue-West end	None	Unmitigated	60.3	C	21.8	E	21.8	E
Seventh Avenue and 34th Street	South sidewalk along West 34th Street between Broadway and Seventh Avenue-West end	None	Unmitigated	40.9	C	19.9	E	19.9	E
Eighth Avenue and 31st Street	East sidewalk along Eighth Avenue between West 31st Street and West 33rd Street-South end	None	Unmitigated	41.6	C	30.2	D	30.2	D
Eighth Avenue and 34th Street	East sidewalk along Eighth Avenue between West 34th Street and West 35th Street-South end	None	Unmitigated	22.0	E	19.3	E	19.3	E
Eighth Avenue and 35th Street	East sidewalk along Eighth Avenue between West 34th Street and West 35th Street-North end	None	Unmitigated	28.3	D	24.4	D	24.4	D
	East sidewalk along Eighth Avenue between West 35th Street and West 36th Street	Remove potted plant.	Fully Mitigated	14.8	E	13.0	E	15.7	E
Eighth Avenue and 36th Street	East sidewalk along Eighth Avenue between West 36th Street and West 37th Street	None	Unmitigated	16.7	E	14.7	E	14.7	E
Eighth Avenue and 37th Street	East sidewalk along Eighth Avenue between West 37th Street and West 38th Street	None	Unmitigated	19.9	E	17.1	E	17.1	E
Eighth Avenue and 38th Street	East sidewalk along Eighth Avenue between West 38th Street and West 39th Street	None	Unmitigated	12.8	E	11.5	E	11.5	E
Eighth Avenue and 39th Street	East sidewalk along Eighth Avenue between West 39th Street and West 40th Street	None	Unmitigated	13.3	E	12.0	E	12.0	E
Ninth Avenue and West 31st Street	South sidewalk along West 31st Street between Eighth Avenue and Ninth Avenue - West end	None	Unmitigated	23.7	D	17.9	E	17.9	E
	South sidewalk along West 31st Street between Ninth Avenue and Dyer Avenue	None	Unmitigated	35.9	D	29.1	D	29.1	D
Ninth Avenue and West 33rd Street	South sidewalk along West 33rd Street between Eighth Avenue and Ninth Avenue	None	Unmitigated	11.4	E	9.3	F	9.3	F

Note: This table has been revised for the FEIS.

Table MA-P5a
2044 No Action, With Action, and Mitigation Conditions Corner Analysis
Weekday AM Peak Hour

Intersection	Corner	Recommended Mitigation Measures	Mitigation Effectiveness	2044 No Action		2044 With Action		2044 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Sixth Avenue and West 30th Street	Northwest	Add 6 foot bulb out on 30th Street	Mitigated	19.7	D	13.5	E	30.4	C
Sixth Avenue and West 31st Street	Northeast	Relocate trash can and restaurant sign	Partially Mitigated	29.8	C	14.8	E	15.4	D
	Southeast	Relocate trash can	Partially Mitigated	55.3	B	18.4	D	18.9	D
	Southwest	Add 6 foot bulb out on 31st Street. Relocate trash can and restaurant sign.	Partially Mitigated	16.9	D	3.4	F	11.0	D
	Northwest	Add 6 foot bulb out on 31st Street	Partially Mitigated	8.2	E	0.9	F	6.1	F
Seventh Avenue and West 29th Street	Northeast	Add 6 foot bulbout on 29th Street	Fully Mitigated	30.4	C	13.6	E	27.0	C
Eighth Avenue and West 29th Street	Northwest	Add 6 foot bulbout along 29th Street	Fully Mitigated	20.5	D	15.5	D	44.1	B
Eighth Avenue and West 36th Street	Southeast	None	Unmitigated	5.0	E	3.8	F	3.8	F
Eighth Avenue and West 38th Street	Southeast	Relocate trash can	Partially Mitigated	10.3	E	8.4	E	8.7	E
Eighth Avenue and West 40th Street	Southeast	Add 5.5 foot bulbout along 40th Street	Fully Mitigated	8.3	E	6.6	F	13.5	E

Note: This table has been revised for the FEIS.

Table MA-P5b
2044 No Action, With Action, and Mitigation Conditions Corner Analysis
Weekday PM Peak Hour

Intersection	Corner	Recommended Mitigation Measures	Mitigation Effectiveness	2044 No Action		2044 With Action		2044 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Sixth Avenue and West 31st Street	Northeast	Relocate trash can and restaurant sign	Partially Mitigated	20.6	D	13.5	E	14.2	E
	Southeast	Relocate trash can	Partially Mitigated	39.7	C	18.9	D	19.4	D
	Southwest	Add 6 foot bulb out on 31st Street. Relocate trash can and restaurant sign.	Partially Mitigated	23.1	D	7.5	F	18.7	D
	Northwest	Add 6 foot bulb out on 31st Street	Partially Mitigated	19.2	D	9.5	E	17.0	D
Sixth Avenue and West 34th Street	Northeast	Relocate trash can	Unmitigated	24.6	C	18.0	D	17.5	D
Seventh Avenue and West 30th Street	Southwest	Relocate restaurant sign and trash can	Partially Mitigated	24.0	D	14.1	E	14.6	E
Eighth Avenue and West 29th Street	Northwest	Add 6 foot bulbout along 29th Street	Fully Mitigated	24.0	C	19.3	D	45.4	B
Eighth Avenue and West 35th Street	Northeast	Add 8 foot bulbout along Eighth Avenue	Fully Mitigated	19.3	D	17.2	D	27.4	C
Eighth Avenue and West 36th Street	Southeast	None	Unmitigated	7.5	F	6.8	F	6.8	F
Eighth Avenue and West 38th Street	Northeast	Relocate potted plant	Fully Mitigated	18.0	D	16.2	D	16.6	D
	Southeast	Relocate trash can	Fully Mitigated	2.5	F	2.1	F	2.4	F
Eighth Avenue and West 39th Street	Northeast	Relocate potted plant	Partially Mitigated	8.6	E	7.3	F	7.6	F
Eighth Avenue and West 40th Street	Northeast	Relocate potted plant	Partially Mitigated	2.2	F	1.2	F	1.4	F
	Southeast	Add 5.5' bulbout along 40th Street	Fully Mitigated	3.5	F	2.8	F	9.2	E
Ninth Avenue and West 31st Street	Southwest	None	Unmitigated	25.3	C	17.5	D	17.5	D

Note: This table has been revised for the FEIS.

Table MA-P6a
2044 No Action, With Action, and Mitigation Conditions Crosswalk Analysis
Weekday AM Peak Hour

Intersection	Crosswalk	Recommended Mitigation Measures	Mitigation Effectiveness	2044 No Action		2044 With Action		2044 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Mitigation Measures for Pedestrian Impacts									
Sixth Avenue and West 30th Street	North	None	Unmitigated	10.5	E	5.2	F	5.2	F
Sixth Avenue and West 31st Street	North	None	Unmitigated	7.3	F	4.1	F	4.1	F
	South	Increase south crosswalk by 1.7 feet	Partially Mitigated	18.7	D	5.1	F	6.1	F
	West	None	Unmitigated	7.5	F	3.3	F	2.1	F
Sixth Avenue and West 32nd Street	East	Shift 1 second of green time from northbound phase to eastbound phase (traffic mitigation).	Unmitigated	22.0	D	7.4	F	7.1	F
	West	Shift 1 second of green time from northbound phase to eastbound phase (traffic mitigation). Increase crosswalk width by 1.3 feet	Partially Mitigated	13.7	E	2.3	F	2.5	F
Sixth Avenue, Broadway and West 33rd Street	West	Increase crosswalk width by 2.7 feet	Partially Mitigated	15.9	D	10.9	E	12.6	E
Sixth Avenue, Broadway and West 34th Street	North	Increase crosswalk width by 0.7 feet	Fully Mitigated	9.0	E	8.1	E	8.5	E
	East	Shift 4 seconds of green time from northbound phase (Phase A) to eastbound/westbound/westbound left phase (Phase C) (traffic mitigation).	Unmitigated	19.4	D	11.8	E	10.3	E
	South	Shift 4 seconds of green time from northbound phase (Phase A) to eastbound/westbound/westbound left phase (Phase C) (traffic mitigation). Increase crosswalk width by 1.8 feet	Partially Mitigated	16.7	D	9.9	E	12.5	E
Seventh Avenue and West 29th Street	East	Increase crosswalk width by 1.9 feet	Partially Mitigated	14.8	E	6.6	F	6.9	F
	West	Increase crosswalk width by 0.8 feet	Partially Mitigated	16.7	D	14.5	E	15.2	D
Seventh Avenue and West 30th Street	North	Increase crosswalk width by 4.5 feet	Partially Mitigated	19.5	D	10.1	E	14.1	E
	East	Increase crosswalk width by 0.5 feet	Partially Mitigated	11.7	E	3.7	F	3.9	F
	South	None	Unmitigated	36.7	C	15.9	D	15.9	D
	West	Increase crosswalk width by 2.7 feet	Partially Mitigated	12.6	E	9.1	E	11.0	E
Seventh Avenue and West 31st Street	East	Increase crosswalk width by 13.7 feet	Partially Mitigated	9.2	E	3.1	F	7.7	F
	South	Increase south crosswalk width by 4.2 feet	Partially Mitigated	18.1	D	4.8	F	7.0	F
Seventh Avenue and West 34th Street	West	Increase crosswalk width by 3 feet	Fully Mitigated	15.8	D	13.5	E	15.1	D
Eighth Avenue and West 29th Street	West	Shift 4 seconds from westbound phase to northbound phase (traffic mitigation)	Partially Mitigated	20.6	D	15.9	D	16.5	D
Eighth Avenue and West 30th Street	North	Increase crosswalk width by 4.0 feet	Partially Mitigated	20.8	D	11.3	E	15.4	D
	East	Increase crosswalk width by 0.7 feet	Partially Mitigated	13.6	E	10.5	E	11.2	E
	West	None	Unmitigated	20.5	D	15.9	D	15.9	D
Eighth Avenue and West 31st Street	North	None	Unmitigated	12.6	E	7.5	F	7.5	F
	East	Increase crosswalk width by 2.6 feet	Fully Mitigated	11.0	E	9.9	E	12.2	E
	South	None	Unmitigated	18.2	D	15.1	D	15.1	D
	West	Increase crosswalk width by 2.8 feet	Partially Mitigated	7.8	F	5.5	F	6.2	F
Eighth Avenue and West 33rd Street	North	None	Unmitigated	13.2	E	11.6	E	11.6	E
	East	Increase crosswalk width by 2.1 feet	Partially Mitigated	5.9	F	3.6	F	4.3	F
	South	None	Unmitigated	10.8	E	8.1	E	8.1	E
Eighth Avenue and West 34th Street	East	None	Unmitigated	5.2	F	3.9	F	3.9	F
Eighth Avenue and West 35th Street	East	Increase crosswalk width by 1.3 feet	Fully Mitigated	11.3	E	9.7	E	10.5	E
Eighth Avenue and West 36th Street	East	None	Unmitigated	6.3	F	5.2	F	5.2	F
Eighth Avenue and West 37th Street	East	Increase crosswalk width by 1.4 feet	Fully Mitigated	7.9	F	6.6	F	7.4	F
Eighth Avenue and West 38th Street	East	None	Unmitigated	4.9	F	4.2	F	4.2	F
Eighth Avenue and West 39th Street	East	Increase crosswalk width by 1.5 feet	Fully Mitigated	6.5	F	6.0	F	6.5	F
Eighth Avenue and West 40th Street	East	Increase crosswalk width by 0.7 feet	Unmitigated	3.7	F	3.2	F	3.1	F
Ninth Avenue and West 31st Street	North	None	Unmitigated	17.8	D	11.4	E	11.4	E
	South	None	Unmitigated	14.9	E	9.5	E	9.5	E
Ninth Avenue and West 33rd Street	South	None	Unmitigated	7.7	F	6.1	F	6.1	F

Note: This table has been revised for the FEIS.

Table MA-P6b
2044 No Action, With Action, and Mitigation Conditions Crosswalk Analysis
Weekday Midday Peak Hour

Intersection	Crosswalk	Recommended Mitigation Measures	Mitigation Effectiveness	2044 No Action		2044 With Action		2044 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Mitigation Measures for Pedestrian Impacts									
Sixth Avenue and West 30th Street	North	None	Unmitigated	22.0	D	15.4	D	15.4	D
Sixth Avenue and West 31st Street	North	None	Unmitigated	14.5	E	13.0	E	13.0	E
	South	Increase south crosswalk width by 1.7 feet.	Fully Mitigated	12.5	E	10.6	E	12.8	E
	West	None	Unmitigated	19.9	D	12.8	E	9.0	E
Sixth Avenue and West 32nd Street	North	None	Unmitigated	19.7	D	17.8	D	17.8	D
	West	Increase crosswalk width by 1.3 feet	Partially Mitigated	22.8	D	10.4	E	11.5	E
Sixth Avenue, Broadway and West 33rd Street	South	None	Unmitigated	19.3	D	16.5	D	16.5	D
	West	Increase crosswalk width by 2.7 feet	Partially Mitigated	15.5	D	11.1	E	12.8	E
Sixth Avenue, Broadway and West 34th Street	North	Increase crosswalk width by 0.7 feet	Fully Mitigated	6.9	F	6.2	F	6.5	F
	East	Shift 3 seconds from northbound phase to eastbound/westbound phase (traffic mitigation)	Unmitigated	13.4	E	11.5	E	10.4	E
	South	Shift 3 seconds from northbound phase to eastbound/westbound phase(traffic mitigation) Increase crosswalk width by 1.8 feet	Fully Mitigated	22.1	D	16.8	D	20.2	D
Seventh Avenue and West 29th Street	East	Increase crosswalk width by 1.9 feet	Fully Mitigated	18.3	D	16.0	D	16.7	D
Seventh Avenue and West 30th Street	North	Increase crosswalk width by 4.5 feet	Fully Mitigated	31.6	C	15.2	D	20.8	D
	East	Increase crosswalk width by 0.5 feet	Partially Mitigated	19.4	D	15.0	D	15.5	D
Seventh Avenue and West 31st Street	North	Shift 2 seconds of green time from westbound phase to southbound/southbound right phase (traffic mitigation).	Unmitigated	15.5	D	12.0	E	10.9	E
	East	Shift 2 seconds of green time from westbound phase to southbound/southbound right phase (traffic mitigation). Increase crosswalk width by 13.7 feet	Fully Mitigated	12.1	E	5.0	F	12.5	E
	South	Shift 2 seconds of green time from westbound phase to southbound/southbound right phase (traffic mitigation). Increase south crosswalk width by 4.2 feet.	Partially Mitigated	14.8	E	3.5	F	4.5	F
	West	Shift 2 seconds of green time from westbound phase to southbound/southbound right phase (traffic mitigation). Increase crosswalk width by 11.8 feet	Partially Mitigated	5.3	F	2.2	F	3.9	F
Seventh Avenue and West 32nd Street	East	None	Unmitigated	11.5	E	3.9	F	3.9	F
Seventh Avenue and West 33rd Street	North	Shift 2 seconds of green time from southbound phase to westbound phase (traffic mitigation). Increase north crosswalk width by 2.8 feet.	Partially Mitigated	11.5	E	7.0	F	9.1	E
	East	Shift 2 seconds of green time from southbound phase to westbound phase (traffic mitigation). Increase crosswalk width by 4.8 feet	Partially Mitigated	21.7	D	13.8	E	16.7	D
	South	Shift 2 seconds of green time from southbound phase to westbound phase (traffic mitigation).	Partially Mitigated	13.1	E	8.9	E	10.5	E
Seventh Avenue and West 34th Street	East	Shift 2 seconds of green time from southbound phase to eastbound/westbound phase (traffic mitigation).	Unmitigated	18.9	D	13.6	E	12.6	E
	South	Shift 2 seconds of green time from southbound phase to eastbound/westbound phase (traffic mitigation).	Partially Mitigate	9.3	E	7.7	F	8.6	E
	West	Shift 2 seconds of green time from southbound phase to eastbound/westbound phase (traffic mitigation). Increase west crosswalk width by 3 feet	Partially Mitigated	22.3	D	17.0	D	17.4	D

Table MA-P6b (continued)
2044 No Action, With Action, and Mitigation Conditions Crosswalk Analysis
Weekday Midday Peak Hour

Intersection	Crosswalk	Recommended Mitigation Measures	Mitigation Effectiveness	2044 No Action		2044 With Action		2044 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Mitigation Measures for Pedestrian Impacts									
Eighth Avenue and West 30th Street	North	Increase crosswalk width by 4.0 feet	Fully Mitigated	29.0	C	18.3	D	24.9	C
	East	Increase crosswalk width by 0.7 feet	Fully Mitigated	17.3	D	15.5	D	16.6	D
Eighth Avenue and West 31st Street	North	None	Unmitigated	16.9	D	14.6	E	14.6	E
	East	Increase crosswalk width by 2.6 feet	Fully Mitigated	13.7	E	10.3	E	12.6	E
	South	None	Unmitigated	21.8	D	11.2	E	11.2	E
	West	Increase crosswalk width by 2.8 feet	Partially Mitigated	11.4	E	8.4	E	9.4	E
Eighth Avenue and West 33rd Street	North	None	Unmitigated	16.2	D	14.1	E	14.1	E
	East	Increase crosswalk width by 2.1 feet	Fully Mitigated	7.9	F	6.3	F	7.4	F
	West	Increase crosswalk width by 2.5 feet	Fully Mitigated	5.2	F	4.4	F	5.0	F
Eighth Avenue and West 34th Street	North	None	Unmitigated	16.6	D	15.0	D	15.0	D
	East	None	Unmitigated	8.3	E	7.1	F	7.1	F

Note: This table has been revised for the FEIS.

Table MA-P6c
2044 No Action, With Action, and Mitigation Conditions Crosswalk Analysis
Weekday PM Peak Hour

Intersection	Crosswalk	Recommended Mitigation Measures	Mitigation Effectiveness	2044 No Action		2044 With Action		2044 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Sixth Avenue and West 30th Street	North	None	Unmitigated	10.3	E	6.4	F	6.4	F
Sixth Avenue and West 31st Street	North	None	Unmitigated	7.0	F	5.2	F	5.2	F
	South	Increase south crosswalk width by 1.7 feet.	Partially Mitigated	15.2	D	6.1	F	7.3	F
	West	None	Unmitigated	11.7	E	6.0	F	4.1	F
Sixth Avenue and West 32nd Street	North	Shift 1 second of green time from northbound phase to eastbound phase (traffic mitigation)	Fully Mitigated	7.9	F	7.3	F	7.7	F
	East	Shift 1 second of green time from northbound phase to eastbound phase (traffic mitigation)	Unmitigated	22.3	D	12.4	E	11.9	E
	West	Shift 1 second of green time from northbound phase to eastbound phase (traffic mitigation). Increase crosswalk width by 1.3 feet.	Partially Mitigated	22.7	D	5.5	F	5.9	F
Sixth Avenue, Broadway and West 33rd Street	South	None	Unmitigated	11.6	E	9.3	E	9.3	E
Sixth Avenue, Broadway and West 34th Street	North	Increase crosswalk width by 0.7 feet.	Fully Mitigated	4.8	F	4.5	F	4.7	F
	East	Shift 3 seconds of green time from the northbound phase (Phase A) to the eastbound/westbound/westbound left phase (Phase C) (traffic mitigation).	Unmitigated	11.6	E	8.0	E	7.2	F
	South	Shift 3 seconds of green time from the northbound phase (Phase A) to the eastbound/westbound/westbound left phase (Phase C) (traffic mitigation). Increase crosswalk width by 1.8 feet.	Partially Mitigated	16.2	D	8.1	E	9.8	E
Sixth Avenue and West 35th Street	East	Increase crosswalk width by 0.6 feet.	Fully Mitigated	10.2	E	9.0	E	9.5	E
Seventh Avenue and West 29th Street	East	Increase crosswalk width by 1.9 feet	Partially Mitigated	19.4	D	9.0	E	9.4	E
	West	Increase crosswalk width by 0.8 feet	Partially Mitigated	10.7	E	8.1	E	8.6	E
Seventh Avenue and West 30th Street	North	Increase crosswalk width by 4.5 feet	Partially Mitigated	25.2	C	13.7	E	18.8	D
	East	Increase crosswalk width by 0.5 feet	Partially Mitigated	15.5	D	5.4	F	5.6	F
	South	None	Unmitigated	26.4	C	13.5	E	13.5	E
	West	Increase crosswalk width by 2.7 feet	Partially Mitigated	8.9	E	5.9	F	7.2	F
Seventh Avenue and West 31st Street	East	Increase crosswalk width by 13.7 feet	Partially Mitigated	10.6	E	3.8	F	9.1	E
	South	Increase south crosswalk width by 4.2 feet.	Partially Mitigated	14.1	E	5.9	F	8.6	E
Seventh Avenue and West 33rd Street	South	None	Unmitigated	7.0	F	6.0	F	6.0	F
Seventh Avenue and West 34th Street	West	Increase crosswalk width by 3 feet	Partially Mitigated	15.2	D	11.6	E	12.9	E
Eighth Avenue and West 29th Street	West	Shift 4 seconds of green time from westbound phase to northbound phase (traffic mitigation)	Partially Mitigated	20.1	D	15.6	D	16.1	D

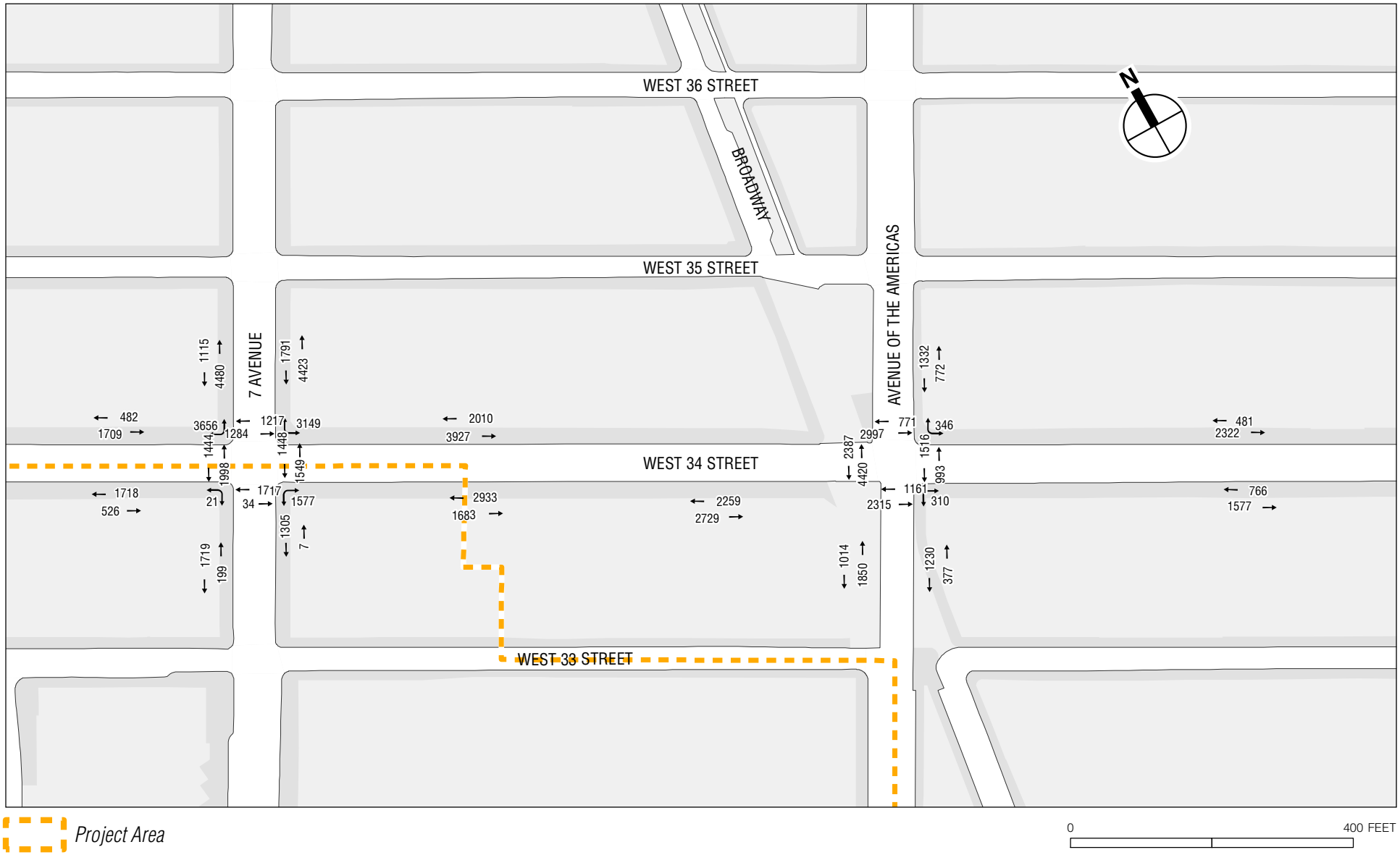
Table MA-P6c (continued)
2044 No Action, With Action, and Mitigation Conditions Crosswalk Analysis
Weekday PM Peak Hour

Intersection	Crosswalk	Recommended Mitigation Measures	Mitigation Effectiveness	2044 No Action		2044 With Action		2044 Mitigation	
				SFP	LOS	SFP	LOS	SFP	LOS
Eighth Avenue and West 30th Street	North	Increase crosswalk width by 4.0 feet	Partially Mitigated	22.6	D	13.5	E	18.3	D
	East	Increase crosswalk width by 0.7 feet	Partially Mitigated	11.8	E	9.6	E	10.2	E
	West	None	Unmitigated	16.8	D	13.5	E	13.5	E
Eighth Avenue and West 31st Street	North	None	Unmitigated	7.7	F	5.4	F	5.4	F
	East	Increase crosswalk width by 2.6 feet	Fully Mitigated	10.3	E	9.4	E	11.5	E
	South	None	Unmitigated	25.8	C	19.3	D	19.3	D
	West	Increase crosswalk width by 2.8 feet	Partially Mitigated	7.0	F	5.0	F	5.7	F
Eighth Avenue and West 33rd Street	North	None	Unmitigated	9.3	E	8.3	E	8.3	E
	East	Increase crosswalk width by 2.1 feet	Partially Mitigated	6.0	F	3.7	F	4.5	F
	South	None	Unmitigated	7.5	F	5.9	F	5.9	F
Eighth Avenue and West 34th Street	East	None	Unmitigated	5.9	F	4.0	F	4.0	F
Eighth Avenue and West 35th Street	East	Increase crosswalk width by 1.3 feet	Fully Mitigated	8.1	E	7.0	F	7.7	F
Eighth Avenue and West 36th Street	East	None	Unmitigated	4.1	F	3.4	F	3.4	F
Eighth Avenue and West 37th Street	East	Increase crosswalk width by 1.4 feet	Fully Mitigated	4.6	F	3.9	F	4.5	F
Eighth Avenue and West 38th Street	East	None	Unmitigated	3.0	F	2.6	F	2.6	F
Eighth Avenue and West 39th Street	East	Increase crosswalk width by 1.5 feet	Fully Mitigated	5.1	F	4.5	F	5.0	F
Eighth Avenue and West 40th Street	East	Increase crosswalk width by 0.7 feet	Unmitigated	2.5	F	2.2	F	2.0	F
Ninth Avenue and West 31st Street	North	None	Unmitigated	12.8	E	9.0	E	9.0	E
	South	None	Unmitigated	12.6	E	8.5	E	8.5	E
Ninth Avenue and West 33rd Street	South	None	Unmitigated	6.2	F	5.1	F	5.1	F

Note: This table has been revised for the FEIS.

Pedestrians Figures

5.16.22

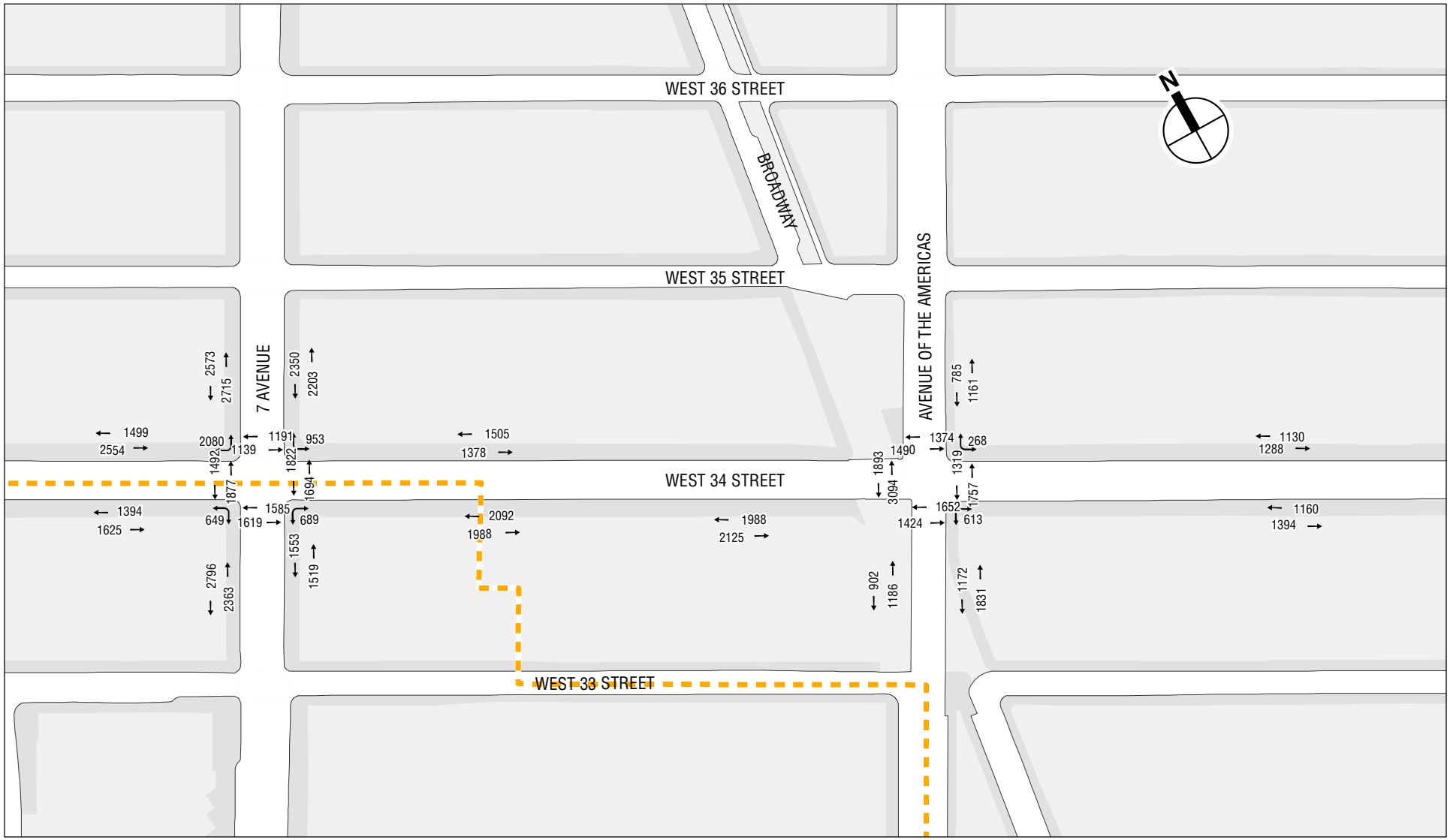


2044 With Action Pedestrian Volumes
Weekday AM Peak Hour (With 34th Street Undercrossings)

Figure MA-P1

PENNSYLVANIA STATION AREA
CIVIC AND LAND USE IMPROVEMENT PROJECT

5.16.22



2044 With Action Pedestrian Volumes
Weekday Midday Peak Hour (With 34th Street Undercrossings)

Figure MA-P2

PENNSYLVANIA STATION AREA
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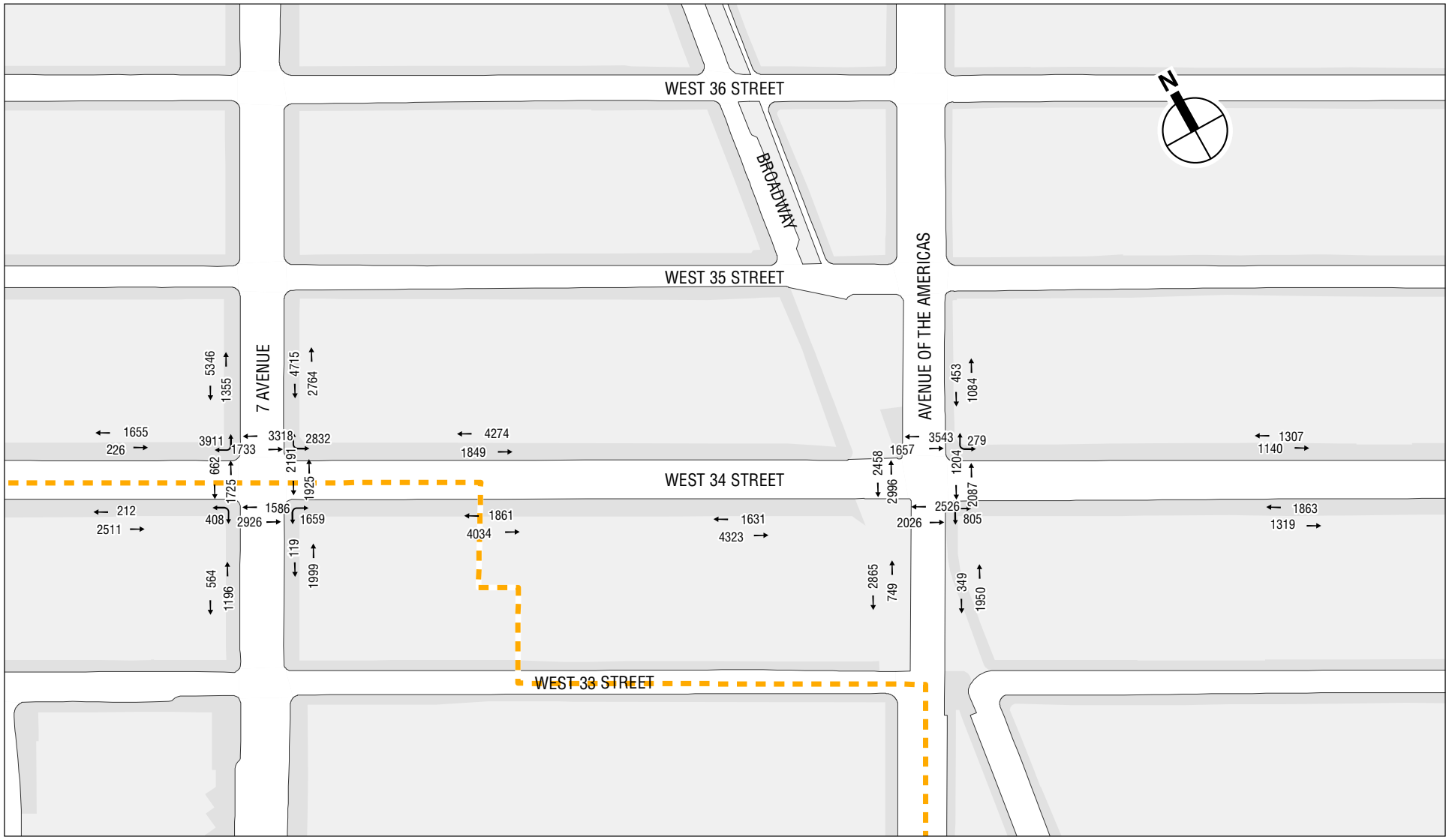
5.16.22

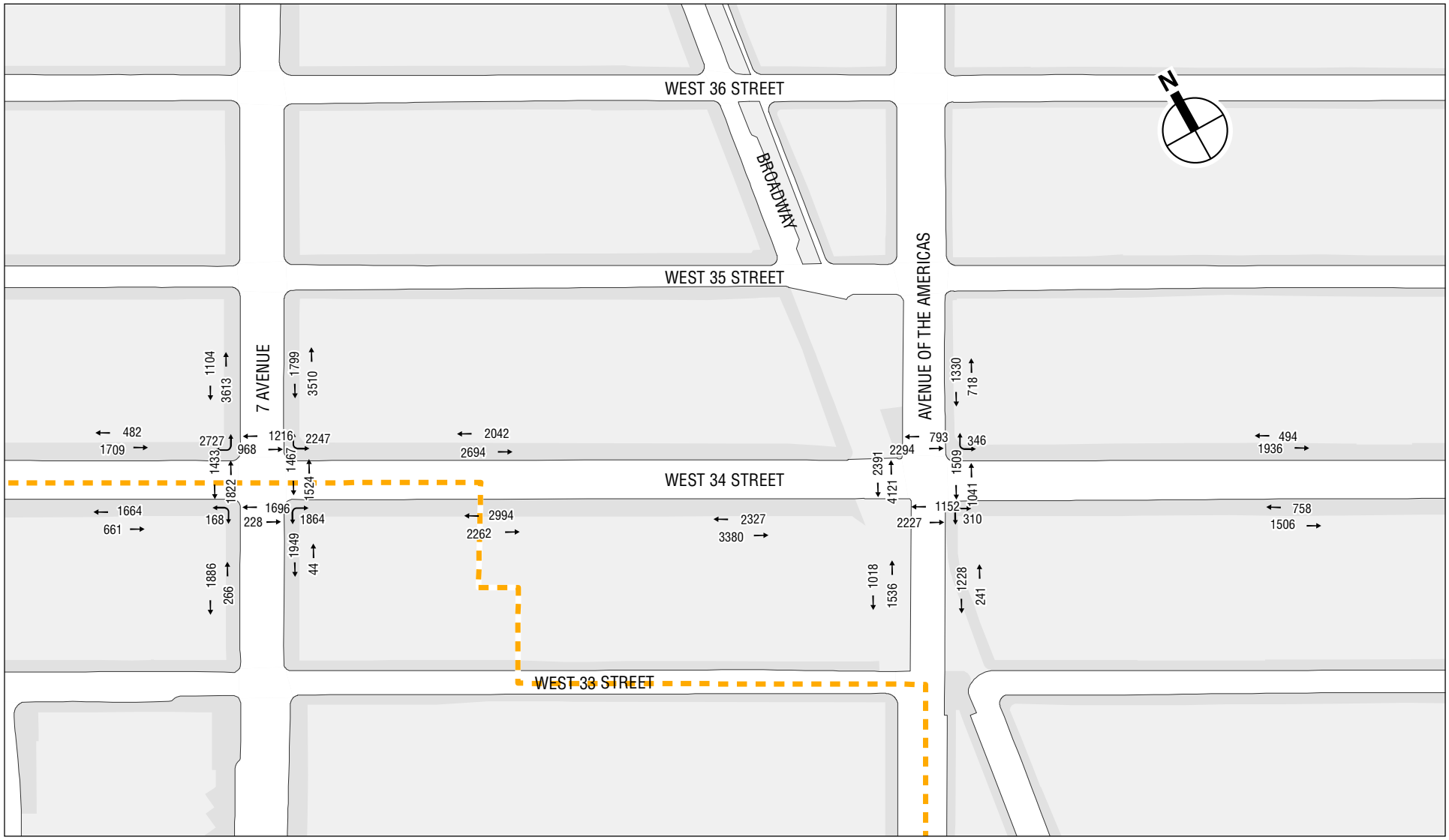


2044 With Action Pedestrian Volumes
Weekday PM Peak Hour (With 34th Street Undercrossings)

Figure MA-P3

PENNSYLVANIA STATION AREA
CIVIC AND LAND USE IMPROVEMENT PROJECT

5.16.22

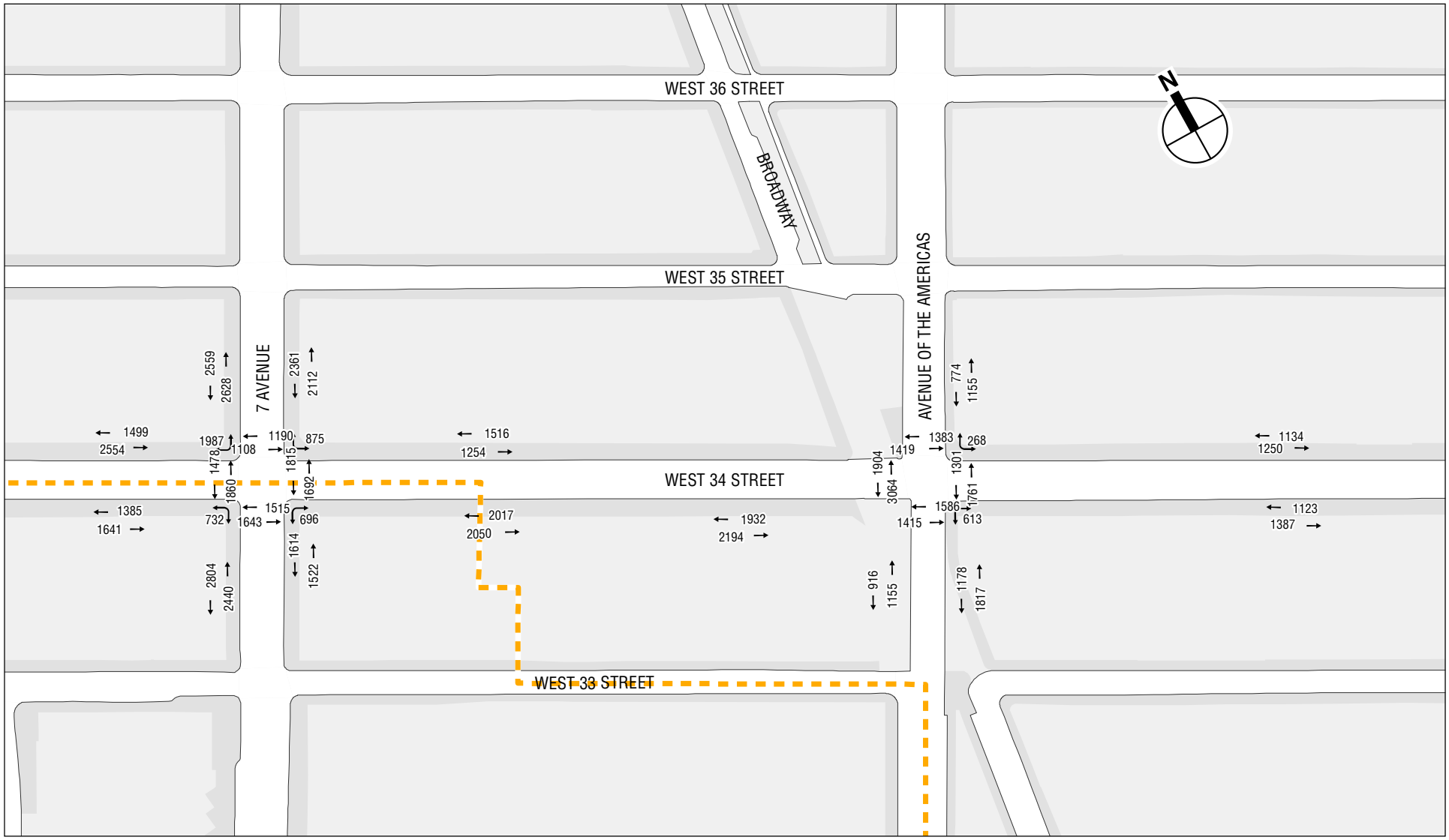


2044 With Action Pedestrian Volumes
Weekday AM Peak Hour
(32nd Street East-West Connector Option With 34th Street Undercrossings)

Figure MA-P4

PENNSYLVANIA STATION AREA
CIVIC AND LAND USE IMPROVEMENT PROJECT

5.16.22

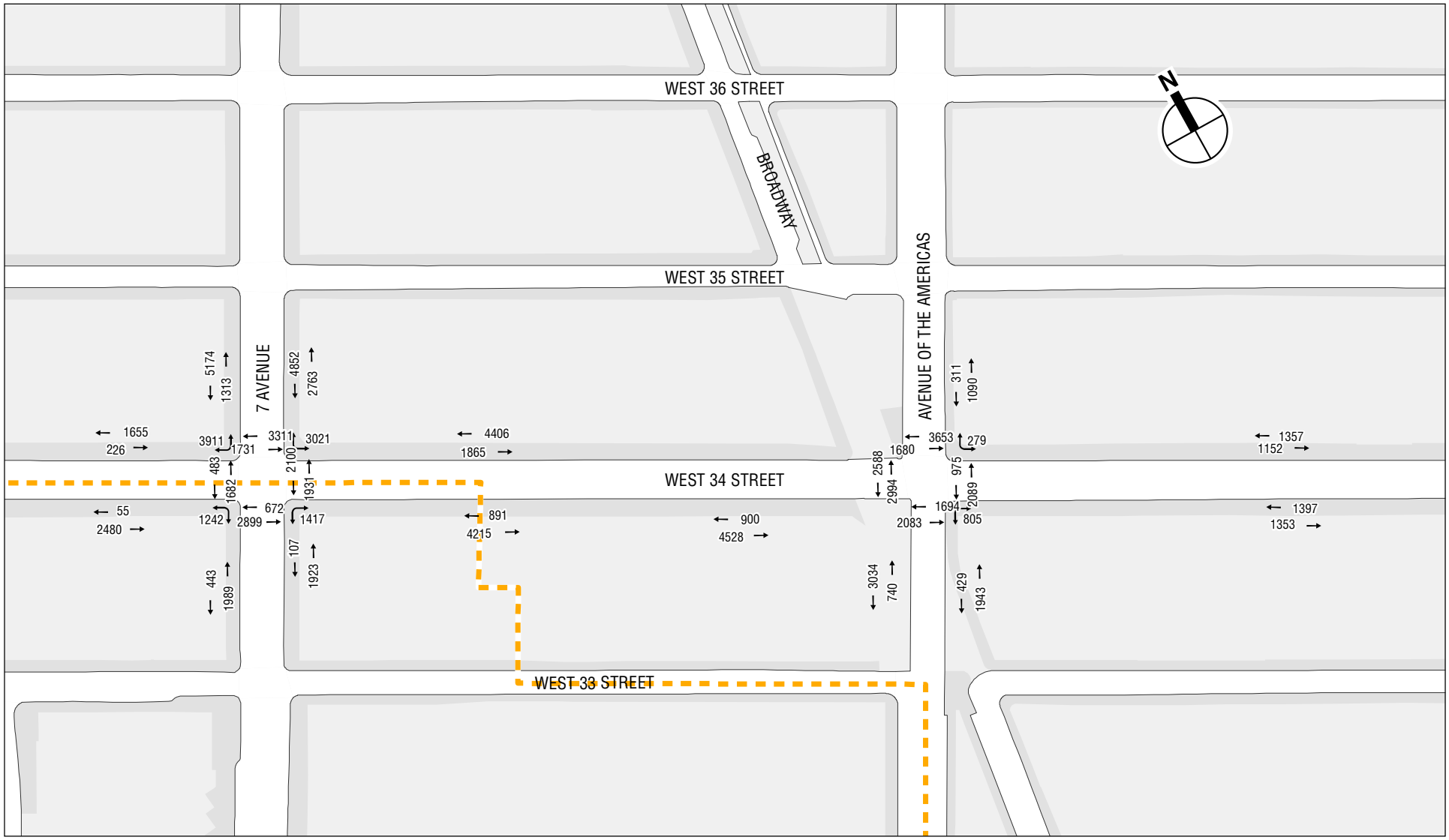


2044 With Action Pedestrian Volumes
Weekday Midday Peak Hour
(32nd Street East-West Connector Option With 34th Street Undercrossings)

PENNSYLVANIA STATION AREA
CIVIC AND LAND USE IMPROVEMENT PROJECT

Figure MA-P5

5.16.22



2044 With Action Pedestrian Volumes
Weekday PM Peak Hour
(32nd Street East-West Connector Option With 34th Street Undercrossings)

PENNSYLVANIA STATION AREA
CIVIC AND LAND USE IMPROVEMENT PROJECT

Figure MA-P6