

# Appendix 6 – Alternatives

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## Smaller Rezoning Area/Lesser Density Alternative



East Midtown RWCDs - Smaller Rezoning Area/Lesser Density Alternative - Projected Sites

Site Data				Future Without the Proposed Action (No-Action) Scenario							
Site	Block	Lot(s)	Lot Area	Building Area (gsf) including Office Mechanical	Commercial Area: Office, Retail and Hotel Areas (gsf)	Residential Area (gsf)	Office Area Usable <sup>2</sup> (gsf)	Retail Area (gsf)	Hotel Area (gsf)	Number of Dwelling Units	Office Mechanical <sup>2</sup> (gsf)
Site LD 1	869	16	14,220	217,317	217,317	-	205,317	12,000	-	-	-
	869	58	5,370	91,212	91,212	-	85,212	6,000	-	-	-
	869	61	6,480	74,186	74,186	-	68,186	6,000	-	-	-
	869	64	7,400	89,423	89,423	-	82,423	7,000	-	-	-
	TOTAL			33,470	472,138	472,138	-	441,138	31,000	-	-
Site LD 2	869	25	2,469	132,240	9,878	122,362	-	9,878	-	123	-
	869	26	2,472								
	869	27	4,937								
	TOTAL										
Site LD 3	1275	23	21,825	407,127	407,127	-	386,052	21,075	-	-	-
	TOTAL			21,825	407,127	407,127	-	386,052	21,075	-	-
Site LD 4	1277	20	23,025	796,554	727,289	-	683,998	43,291	-	-	-
	1277	27	10,250								
	1277	46	3,350								
	1277	52	6,666								
	TOTAL										
Site LD 5	1278	8	5,690	36,616	36,616	-	36,616	-	-	-	-
	1278	14	27,750	486,874	486,874	-	466,874	20,000	-	-	-
	1278	15	2,375	35,625	35,625	-	33,325	2,300	-	-	-
	1278	17	2,375	35,625	35,625	-	33,325	2,300	-	-	-
	1278	62	2,513	94,991	7,539	87,452	-	7,539	-	88	-
	1278	63	2,513								
	1278	64	2,513								
	1278	65	5,020								
	TOTAL										
Site LD 6	1279	9	8,133	110,999	110,999	-	104,999	6,000	-	-	-
	1279	17	13,125	122,600	122,600	-	50,325	72,275	-	-	-
	1279	57	18,800	380,766	380,766	-	344,482	36,284	-	-	-
	1279	63	4,522	15,023	15,023	-	-	15,023	-	-	-
	1279	65	5,020	79,280	79,280	-	74,280	5,000	-	-	-
	TOTAL			49,600	708,668	708,668	-	574,086	134,582	-	-
Site LD 7	1279	23	5,000	460,938	420,857	-	409,907	10,950	-	-	40,082
	1279	24	2,541								
	1279	25	2,510								
	1279	48	15,000								
	1279	28	9,105								
	1279	45	9,105								
TOTAL			43,261	798,163	758,082	-	562,737	29,274	166,071	-	40,082
Site LD 8	1281	62	5,020	145,505	11,548	133,957	-	11,548	-	134	-
	1281	64	2,445								
	1281	65	4,083								
	TOTAL										
Site LD 9	1281	21	43,313	598,248	598,248	-	-	598,248	-	-	-
	TOTAL			43,313	598,248	598,248	-	-	598,248	-	-
Site LD 10	1282	17	38,150	698,996	698,996	-	677,674	21,322	-	-	-
	1282	64	8,033	29,000	29,000	-	16,800	12,200	-	-	-
	TOTAL			46,183	727,996	727,996	-	694,474	33,522	-	-

**East Midtown RWCDs - Smaller Rezoning Area/Lesser Density Alternative - Projected Sites**

Site Data				Future Without the Proposed Action (No-Action) Scenario							
Site	Block	Lot(s)	Lot Area	Building Area (gsf) including Office Mechanical	Commercial Area: Office, Retail and Hotel Areas (gsf)	Residential Area (gsf)	Office Area Usable <sup>2</sup> (gsf)	Retail Area (gsf)	Hotel Area (gsf)	Number of Dwelling Units	Office Mechanical <sup>2</sup> (gsf)
Site LD 11	1283	8	2,510								
	1283	9	2,510								
	1283	10	2,510								
	1283	11	2,510								
	1283	12	2,500								
	1283	13	2,500								
	TOTAL			15,040	213,171	15,040	198,131	-	15,040	-	199
Site LD 14	1300	42	3,314								
	1300	44	3,213	82,240	6,527	75,713	-	6,527	-	76	-
	TOTAL			6,527	82,240	6,527	75,713	-	6,527	-	76
Site LD 15	1302	25	5,522								
	1302	27	1,674								
	1302	127	1,688								
	1302	28	1,688								
	1302	29	1,688	167,349	12,260	155,089	-	12,260	-	156	-
	TOTAL			12,260	167,349	12,260	155,089	-	12,260	-	156
Site LD 16	1303	14	41,170	427,611	427,611	-	-	-	427,611	-	-
	TOTAL			427,611	427,611	-	-	-	427,611	-	-
<b>TOTALS</b>				<b>6,429,660</b>	<b>5,547,609</b>	<b>772,705</b>	<b>3,912,625</b>	<b>380,136</b>	<b>1,254,848</b>	<b>776</b>	<b>109,347</b>

Notes

- 1) For residential buildings and hotels, per standard practice, the building gross square footage is derived from zoning floor area plus five percent mechanical space.
- 2) For large high-end office buildings, as the result of the Proposed Action it is assumed that these buildings would utilize a much larger allocation of mechanical space than found in typical office use; therefore the total mechanical space are set at fifteen percent over their zoning floor area. The environmental density analyses are based on the values shown in OfficeArea (usable) column.

East Midtown RWCDS - Smaller Rezoning Area/Lesser Density Alternative - Projected Sites

Site Data				Future With the Proposed Action (With-Action) Scenario										
Site	Block	Lot(s)	Lot Area	Building Area (gsf) including Office Mechanical	Commercial Area: Office, Retail and Hotel Areas (gsf)	Residential Area (gsf)	Office Area Usable <sup>2</sup> (gsf)	Retail Area (gsf)	Hotel Area (gsf)	No of Dwelling Units	Parking Spaces: New Construction	Office Mechanical <sup>2</sup> (gsf)	Neighborhood Retail Area (gsf)	Destination Retail Area (gsf)
Site LD 1	869	16	14,220											
	869	58	5,370											
	869	61	6,480											
	869	64	7,400											
	TOTAL			33,470	831,395	759,100	-	725,630	33,470	-	-	100	72,295	33,470
Site LD 2	869	25	2,469											
	869	26	2,472											
	869	27	4,937											
	TOTAL			9,878	142,612	18,149	124,463	-	18,149	-	125	-	-	18,149
Site LD 3	1275	23	21,825											
	TOTAL			21,825	445,901	407,127	-	385,302	21,825	-	-	-	38,774	21,825
Site LD 4	1277	20	23,025											
	1277	27	10,250											
	1277	46	3,350											
	1277	52	6,666											
	TOTAL			43,291	1,194,832	1,090,933	-	1,047,642	43,291	-	-	-	103,898	21,646
Site LD 5	1278	8	5,690											
	1278	14	27,750											
	1278	15	2,375											
	1278	17	2,375											
	1278	62	2,513											
	1278	63	2,513											
	1278	64	2,513											
	1278	65	5,020											
	TOTAL			50,749	1,260,605	1,150,987	-	1,100,238	50,749	-	-	100	109,618	25,375
Site LD 6	1279	9	8,133											
	1279	17	13,125											
	1279	57	18,800											
	1279	63	4,522											
	1279	65	5,020											
	TOTAL			49,600	1,232,064	1,124,928	-	1,075,328	49,600	-	-	100	107,136	24,800
Site LD 7	1279	23	5,000											
	1279	24	2,541											
	1279	25	2,510											
	1279	48	15,000											
	1279	28	9,105											
	1279	45	9,105											
	TOTAL			43,261	1,194,004	1,090,177	-	1,046,916	43,261	-	-	-	103,826	21,631

East Midtown RWCDS - Smaller Rezoning Area/Lesser Density Alternative - Projected Sites

Site Data			
Site	Block	Lot(s)	Lot Area
Site LD 8	1281	62	5,020
	1281	64	2,445
	1281	65	4,083
	TOTAL		11,548

Future With the Proposed Action (With-Action) Scenario										
Building Area (gsf) including Office Mechanical	Commercial Area: Office, Retail and Hotel Areas (gsf)	Residential Area (gsf)	Office Area Usable <sup>2</sup> (gsf)	Retail Area (gsf)	Hotel Area (gsf)	No of Dwelling Units	Parking Spaces: New Construction	Office Mechanical <sup>2</sup> (gsf)	Neighborhood Retail Area (gsf)	Destination Retail Area (gsf)
157,630	157,630	-	-	11,548	146,082	-	-	-	11,548	-
<b>157,630</b>	<b>157,630</b>	<b>-</b>	<b>-</b>	<b>11,548</b>	<b>146,082</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>11,548</b>	<b>-</b>

Site LD 9	1281	21	43,313
	TOTAL		43,313

1,195,439	1,091,488	-	1,048,175	43,313	-	-	-	103,951	21,657	21,657
<b>1,195,439</b>	<b>1,091,488</b>	<b>-</b>	<b>1,048,175</b>	<b>43,313</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>103,951</b>	<b>21,657</b>	<b>21,657</b>

Site LD 10	1282	17	38,150
	1282	64	8,033
	TOTAL		46,183

1,147,186	1,047,430	-	1,001,247	46,183	-	-	100	99,755	23,092	23,092
<b>1,147,186</b>	<b>1,047,430</b>	<b>-</b>	<b>1,001,247</b>	<b>46,183</b>	<b>-</b>	<b>-</b>	<b>100</b>	<b>99,755</b>	<b>23,092</b>	<b>23,092</b>

Site LD 11	1283	8	2,510
	1283	9	2,510
	1283	10	2,510
	1283	11	2,510
	1283	12	2,500
	1283	13	2,500
TOTAL		15,040	

213,171	213,171	-	-	15,040	198,131	-	-	-	15,040	-
<b>213,171</b>	<b>213,171</b>	<b>-</b>	<b>-</b>	<b>15,040</b>	<b>198,131</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>15,040</b>	<b>-</b>

Site LD 14	1300	42	3,314
	1300	44	3,213
	TOTAL		6,527

89,094	6,527	82,567	-	6,527	-	83	-	-	6,527	-
<b>89,094</b>	<b>6,527</b>	<b>82,567</b>	<b>-</b>	<b>6,527</b>	<b>-</b>	<b>83</b>	<b>-</b>	<b>-</b>	<b>6,527</b>	<b>-</b>

Site LD 15	1302	25	5,522
	1302	27	1,674
	1302	127	1,688
	1302	28	1,688
	1302	29	1,688
TOTAL		12,260	

167,349	167,349	-	-	12,260	155,089	-	-	-	12,260	-
<b>167,349</b>	<b>167,349</b>	<b>-</b>	<b>-</b>	<b>12,260</b>	<b>155,089</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>12,260</b>	<b>-</b>

Site LD 16	1303	14	41,170
	TOTAL		41,170

805,419	805,419	-	-	41,170	764,249	-	-	-	41,170	-
<b>805,419</b>	<b>805,419</b>	<b>-</b>	<b>-</b>	<b>41,170</b>	<b>764,249</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>41,170</b>	<b>-</b>

**TOTALS**

<b>10,076,700</b>	<b>9,130,416</b>	<b>207,029</b>	<b>7,430,478</b>	<b>436,386</b>	<b>1,263,552</b>	<b>208</b>	<b>400</b>	<b>739,254</b>	<b>298,188</b>	<b>138,199</b>
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Notes

- 1) For residential buildings and hotels, per standard practice, the building gross square footage is derived from zoning floor area plus five percent mechanical space.
- 2) For large high-end office buildings, as the result of the Proposed Action it is assumed that these buildings would utilize a much larger allocation of mechanical space than found in typical office use; therefore the total mechanical space are set at fifteen percent over their zoning floor area. The environmental density analyses are based on the values shown in OfficeArea (usable) column.



East Midtown RWCDs - Smaller Rezoning Area/Lesser Density Alternative - Projected Sites

Site Data				Increment						
Site	Block	Lot(s)	Lot Area	Building Area (gsf) including Office Mechanical	Commercial Area: Office, Retail and Hotel Areas (gsf)	Residential Area (gsf)	Office Area Usable <sup>2</sup> (gsf)	Retail Area (gsf)	Hotel Area (gsf)	Number of Dwelling Units
Site LD 1	869	16	14,220							
	869	58	5,370							
	869	61	6,480							
	869	64	7,400							
	TOTAL			33,470	359,257	286,962	-	284,492	2,470	-
Site LD 2	869	25	2,469							
	869	26	2,472							
	869	27	4,937							
	TOTAL			9,878	10,372	8,271	2,101	-	8,271	-
Site LD 3	1275	23	21,825							
	TOTAL			21,825	38,774	-	-	(750)	750	-
Site LD 4	1277	20	23,025							
	1277	27	10,250							
	1277	46	3,350							
	1277	52	6,666							
	TOTAL			43,291	398,277	363,644	-	363,644	-	-
Site LD 5	1278	8	5,690							
	1278	14	27,750							
	1278	15	2,375							
	1278	17	2,375							
	1278	62	2,513							
	1278	63	2,513							
	1278	64	2,513							
	1278	65	5,020							
TOTAL			50,749	507,956	485,790	(87,452)	530,098	18,610	(62,918)	(88)
Site LD 6	1279	9	8,133							
	1279	17	13,125							
	1279	57	18,800							
	1279	63	4,522							
	1279	65	5,020							
	TOTAL			49,600	523,396	416,260	-	501,242	(84,982)	-
Site LD 7	1279	23	5,000							
	1279	24	2,541							
	1279	25	2,510							
	1279	48	15,000							
	1279	28	9,105							
	1279	45	9,105							
	TOTAL			43,261	395,840	332,095	-	484,179	13,987	(166,071)
Site LD 8	1281	62	5,020							
	1281	64	2,445							
	1281	65	4,083							
	TOTAL			11,548	12,125	146,082	(133,957)	-	-	146,082
Site LD 9	1281	21	43,313							
	TOTAL			43,313	597,191	493,240	-	1,048,175	43,313	(598,248)
Site LD 10	1282	17	38,150							
	1282	64	8,033							
	TOTAL			46,183	419,190	319,434	-	306,773	12,661	-

**East Midtown RWCDs - Smaller Rezoning Area/Lesser Density Alternative - Projected Sites**

Site Data			
Site	Block	Lot(s)	Lot Area
Site LD 11	1283	8	2,510
	1283	9	2,510
	1283	10	2,510
	1283	11	2,510
	1283	12	2,500
	1283	13	2,500
TOTAL			15,040

Site LD 14	1300	42	3,314
	1300	44	3,213
	TOTAL		6,527

Site LD 15	1302	25	5,522
	1302	27	1,674
	1302	127	1,688
	1302	28	1,688
	1302	29	1,688
TOTAL			12,260

Site LD 16	1303	14	41,170
	TOTAL		41,170

**TOTALS**

Increment						
Building Area (gsf) including Office Mechanical	Commercial Area: Office, Retail and Hotel Areas (gsf)	Residential Area (gsf)	Office Area Usable <sup>2</sup> (gsf)	Retail Area (gsf)	Hotel Area (gsf)	Number of Dwelling Units
-	198,131	(198,131)	-	-	198,131	(199)

6,853	-	6,853	-	-	-	7
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-	155,089	(155,089)	-	-	155,089	(156)
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377,808	377,808	-	-	41,170	336,638	-
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<b>3,647,040</b>	<b>3,582,808</b>	<b>(565,675)</b>	<b>3,517,854</b>	<b>56,250</b>	<b>8,704</b>	<b>(568)</b>
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Notes

- 1) For residential buildings and hotels, per standard practice, the building gross square footage is derived from zoning floor area plus five percent mechanical space.
- 2) For large high-end office buildings, as the result of the Proposed Action it is assumed that these buildings would utilize a much larger allocation of mechanical space than found in typical office use; therefore the total mechanical space are set at fifteen percent over their zoning floor area. The environmental density analyses are based on the values shown in OfficeArea (usable) column.

East Midtown RWCDs - Smaller Rezoning Area/Lesser Density Alternative - Potential Sites

Potential Sites	Site Data			Future Without the Proposed Action (No-Action) Scenario							
	Block	Lot	Lot Area	Building Area (gsf) including Office Mechanical	Commercial Area: Office, Retail and Hotel Areas (gsf)	Residential Area (gsf)	Office Area Usable <sup>2</sup> (gsf)	Retail Area (gsf)	Hotel Area (gsf)	Num of Res Units	Office Mechanical <sup>2</sup> (gsf)
LD Potential Site 1	895	1	25675	530,900	530,900	-	488,245	20,525	-	-	-
	TOTAL		25,675	530,900	530,900	-	488,245	20,525	-	-	-
LD Potential Site 2	1275	8	7,406	79,738	79,738	-	73,188	6,550	-	-	-
	1275	11	2,450	11,951	11,951	-	11,951	-	-	-	-
	1275	12	5,100	57,643	57,643	-	51,292	6,351	-	-	-
	1275	14	4,735	102,079	102,079	-	102,079	-	-	-	-
	1275	16	4,750	36,681	36,681	-	30,111	6,570	-	-	-
	1275	59	9,250	170,230	170,230	-	164,420	5,810	-	-	-
	1275	60	2,479	7,255	7,255	-	3,855	3,400	-	-	-
	1275	61	4,950	92,939	92,939	-	89,439	3,500	-	-	-
	1275	63	2,469	9,200	9,200	-	7,200	2,000	-	-	-
	1275	64	6,325	83,247	83,247	-	72,149	11,098	-	-	-
TOTAL		49,914	650,963	650,963	-	605,684	45,279	-	-	-	
LD Potential Site 3	1278	20	43,313	874,734	874,734	-	850,729	24,005	-	-	-
	TOTAL		43,313	874,734	874,734	-	850,729	24,005	-	-	-
LD Potential Site 4	1281	9	2,513	18,933	18,933	-	14,833	4,100	-	-	-
	1281	56	6,025	84,518	84,518	-	78,589	5,929	-	-	-
	1281	59	6,025	87,016	87,016	-	77,716	9,300	-	-	-
	1281	7501	19,581	323,029	323,029	-	318,943	-	4,086	-	-
	TOTAL		34,144	513,496	513,496	-	490,081	19,329	4,086	-	-
LD Potential Site 5	1282	34	24970	444,628	444,628	-	434,628	10,000	-	-	-
	TOTAL		24,970	444,628	444,628	-	434,628	10,000	-	-	-
LD Potential Site 8	1295	17	12,359	238,274	238,274	-	228,274	10,000	-	-	-
	1295	58	14,812	246,585	246,585	-	233,287	13,298	-	-	-
	TOTAL		27,171	484,859	484,859	-	461,561	23,298	-	-	-
LD Potential Site 9	1296	1	24786	518,582	518,582	-	497,582	21,000	-	-	-
	TOTAL		24,786	518,582	518,582	-	497,582	21,000	-	-	-
LD Potential Site 11	1301	23	46,125	743,779	743,779	-	674,979	25,632	-	-	-
	1301	33	38,225	761,057	761,057	-	734,837	26,220	-	-	-
	TOTAL		84,350	1,504,836	1,504,836	-	1,409,816	51,852	-	-	-
LD Potential Site 12	1302	123	1,280	3,600	3,600	-	-	900	2,700	-	-
	1302	51	17,522	314,568	314,568	-	-	16,974	297,594	-	-
	1302	21	6,050	92,501	92,501	-	-	-	92,501	-	-
	1302	22	1,360	3,864	1,200	2,664	-	1,200	-	3	-
	1302	23	1,360	3,813	1,938	1,875	938	1,000	-	2	-
	1302	24	2,010	7,121	4,747	2,374	1,187	3,560	-	4	-
	TOTAL		29,582	425,467	418,554	6,913	2,125	23,634	392,795	9	-

Notes

- 1) For residential buildings and hotels, per standard practice, the building gross square footage is derived from zoning floor area plus five percent mechanical space.
- 2) For large high-end office buildings, as the result of the Proposed Action it is assumed that these buildings would utilize a much larger allocation of mechanical space than found in typical office use; therefore the total mechanical space are set at fifteen percent over their zoning floor area. The environmental density analyses are based on the values shown in OfficeArea (usable) column.

East Midtown RWCDs - Smaller Rezoning Area/Lesser Density Alternative - Potential Sites

Potential Sites	Site Data			Future With the Proposed Action (With-Action) Scenario										
	Block	Lot	Lot Area	Building Area (gsf) including Office Mechanical	Commercial Area: Office, Retail and Hotel Areas (gsf)	Residential Area (gsf)	Office Area Usable <sup>2</sup> (gsf)	Retail Area (gsf)	Hotel Area (gsf)	No of Dwelling Units	Parking Spaces: New Construction	Office Mechanical <sup>2</sup> (gsf)	Neighborhood Retail Area (gsf)	Destination Retail Area (gsf)
LD Potential Site 1	895	1	25675	581,462	530,900		505,225	25,675				50,562	25,675	
	<b>TOTAL</b>		<b>25,675</b>	<b>581,462</b>	<b>530,900</b>	-	<b>505,225</b>	<b>25,675</b>	-	-	-	<b>50,562</b>	<b>25,675</b>	-
LD Potential Site 2	1275	8	7,406											
	1275	11	2,450											
	1275	12	5,100											
	1275	14	4,735											
	1275	16	4,750											
	1275	59	9,250											
	1275	60	2,479											
	1275	61	4,950											
	1275	63	2,469											
	1275	64	6,325											
<b>TOTAL</b>			<b>49,914</b>	<b>1,239,864</b>	<b>1,132,050</b>	-	<b>1,082,136</b>	<b>49,914</b>	-	-	<b>100</b>	<b>107,814</b>	<b>24,957</b>	<b>24,957</b>
LD Potential Site 3	1278	20	43,313	1,195,439	1,091,488	-	1,048,175	43,313	-	-	-	103,951	21,657	21,657
	<b>TOTAL</b>		<b>43,313</b>	<b>1,195,439</b>	<b>1,091,488</b>	-	<b>1,048,175</b>	<b>43,313</b>	-	-	-	<b>103,951</b>	<b>21,657</b>	<b>21,657</b>
LD Potential Site 4	1281	9	2,513											
	1281	56	6,025											
	1281	59	6,025											
	1281	7501	19,581	848,137	774,386	-	740,242	34,144	-	-	100	73,751	34,144	-
<b>TOTAL</b>		<b>34,144</b>	<b>848,137</b>	<b>774,386</b>	-	<b>740,242</b>	<b>34,144</b>	-	-	<b>100</b>	<b>73,751</b>	<b>34,144</b>	-	
LD Potential Site 5	1282	34	24,970	486,974	444,628	-	419,658	24,970	-	-	-	42,346	24,970	-
	<b>TOTAL</b>		<b>24,970</b>	<b>486,974</b>	<b>444,628</b>	-	<b>419,658</b>	<b>24,970</b>	-	-	-	<b>42,346</b>	<b>24,970</b>	-
LD Potential Site 8	1295	17	12,359											
	1295	58	14,812	674,928	616,238	-	589,067	27,171	-	-	-	58,689	27,171	-
	<b>TOTAL</b>		<b>27,171</b>	<b>674,928</b>	<b>616,238</b>	-	<b>589,067</b>	<b>27,171</b>	-	-	-	<b>58,689</b>	<b>27,171</b>	-
LD Potential Site 9	1296	1	24,786	567,971	518,582	-	493,796	24,786	-	-	-	49,389	24,786	-
	<b>TOTAL</b>		<b>24,786</b>	<b>567,971</b>	<b>518,582</b>	-	<b>493,796</b>	<b>24,786</b>	-	-	-	<b>49,389</b>	<b>24,786</b>	-
LD Potential Site 11	1301	23	46,125											
	1301	33	38,225	1,991,324	1,818,166	-	1,733,816	84,350	-	-	100	173,159	42,175	42,175
	<b>TOTAL</b>		<b>84,350</b>	<b>1,991,324</b>	<b>1,818,166</b>	-	<b>1,733,816</b>	<b>84,350</b>	-	-	<b>100</b>	<b>173,159</b>	<b>42,175</b>	<b>42,175</b>
LD Potential Site 12	1302	123	1,280											
	1302	51	17,522											
	1302	21	6,050											
	1302	22	1,360											
	1302	23	1,360											
	1302	24	2,010	670,920	670,920	-	-	29,582	641,338	-	148	-	29,582	-
<b>TOTAL</b>		<b>29,582</b>	<b>670,920</b>	<b>670,920</b>	-	-	<b>29,582</b>	<b>641,338</b>	-	<b>148</b>	-	<b>29,582</b>	-	

Notes  
 1) For residential buildings and hotels, per standard practice, the building gross square footage is derived from zoning floor area plus five percent mechanical space.  
 2) For large high-end office buildings, as the result of the Proposed Action it is assumed that these buildings would utilize a much larger allocation of mechanical space than found in typical office use; therefore the total mechanical space are set at fifteen percent over their zoning floor area. The environmental density analyses are based on the values shown in OfficeArea (usable) column.

East Midtown RWCDs - Smaller Rezoning Area/Lesser Density Alternative - Potential Sites

Potential Sites	Site Data			Increment						
	Block	Lot	Lot Area	Building Area (gsf) including Office Mechanical	Commercial Area: Office, Retail and Hotel Areas (gsf)	Residential Area (gsf)	Office Area Usable <sup>2</sup> (gsf)	Retail Area (gsf)	Hotel Area (gsf)	Number of Dwelling Units
LD Potential Site 1	895	1	25675							
	TOTAL			50,562	-	-	16,980	5,150	-	-
LD Potential Site 2	1275	8	7,406							
	1275	11	2,450							
	1275	12	5,100							
	1275	14	4,735							
	1275	16	4,750							
	1275	59	9,250							
	1275	60	2,479							
	1275	61	4,950							
	1275	63	2,469							
	1275	64	6,325							
TOTAL			49,914	588,901	481,087	-	476,452	4,635	-	-
LD Potential Site 3	1278	20	43,313							
	TOTAL			43,313	320,705	216,754	-	197,446	19,308	-
LD Potential Site 4	1281	9	2,513							
	1281	56	6,025							
	1281	59	6,025							
	1281	7501	19,581							
TOTAL			34,144	334,641	260,890	-	250,161	14,815	(4,086)	-
LD Potential Site 5	1282	34	24970							
	TOTAL			24,970	42,346	-	(14,970)	14,970	-	-
LD Potential Site 8	1295	17	12,359							
	1295	58	14,812							
	TOTAL			27,171	190,069	131,379	-	127,506	3,873	-
LD Potential Site 9	1296	1	24786							
	TOTAL			24,786	49,389	-	(3,786)	3,786	-	-
LD Potential Site 11	1301	23	46,125							
	1301	33	38,225							
	TOTAL			84,350	486,488	313,330	-	324,000	32,498	-
LD Potential Site 12	1302	123	1,280							
	1302	51	17,522							
	1302	21	6,050							
	1302	22	1,360							
	1302	23	1,360							
	1302	24	2,010							
TOTAL			29,582	245,453	252,366	(6,913)	(2,125)	5,948	248,543	(9)

Notes

- 1) For residential buildings and hotels, per standard practice, the building gross square footage is derived from zoning floor area plus five percent mechanical space.
- 2) For large high-end office buildings, as the result of the Proposed Action it is assumed that these buildings would utilize a much larger allocation of mechanical space than found in typical office use; therefore the total mechanical space are set at fifteen percent over their zoning floor area. The environmental density analyses are based on the values shown in OfficeArea (usable) column.

**Existing Non-Residential Population in the Open Space Study Area**

<b>Census Tract</b>	<b>Worker Population<sup>(1)</sup></b>	<b>College/Post-Secondary Student Population<sup>(2)</sup></b>	<b>Visitor Population<sup>(3)</sup></b>	<b>Total Non-Residential Population</b>
80	25,873	40	2,048	27,961
82	44,200	821	2,342	47,363
84	25,195	534	1,216	26,945
88	23,839	0	2,486	26,325
90	11,719	0	1,724	13,443
92	58,697	0	7,764	66,461
94	48,547	5,202	2,080	55,829
96	41,384	387	2,880	44,651
100	34,179	125	7,186	41,490
102	42,310	1,567	3,208	47,085
<b>Total Population</b>	<b>355,943</b>	<b>8,676</b>	<b>32,934</b>	<b>397,553</b>

**Sources:** See notes below.

- (1) Worker population was calculated based on private-sector employment data compiled by DCP from the New York State Department of Labor, Quarterly Census of Employment and Wages, Quarter 3, 2010.
- (2) College/post-secondary student population was aggregated from data provided in the 2011 *Manhattan Community District Profiles* for Districts 5 and 6, supplemented with information obtained from the administrative offices of additional educational institutions identified within the study area.
- (3) Visitor population represents an estimate of the number of hotel guests, calculated as the number of hotel rooms (from New York Hotel Guide) multiplied by an 89.2 percent occupancy rate (from New York City Economic Development Corporation, November 2012 Economic Snapshot) multiplied by 2 people per occupied hotel room (from *Special West Chelsea District Rezoning and High Line Open Space Environmental Impact Statement*, 2004).

**EXISTING RESIDENTIAL POPULATION IN THE OPEN SPACE STUDY AREA**

<b>Census Tract</b>	<b>Residential Population</b>
80	5,377
82	3,262
84	1,595
88	7,026
90	7,883
92	1,806
94	73
96	155
100	1,992
102	230
<b>Total Population</b>	<b>29,399</b>

Source: U.S. Census Bureau, 2010

**SUMMARY OF OPEN SPACE USER GROUPS WITHIN THE STUDY AREA – EXISTING, NO-ACTION, AND WITH-ACTION CONDITIONS FOR THE SMALLER REZONING AREA/LESSER DENSITY ALTERNATIVE**

User Group	Study Area Population		
	Existing	No-Action	With-Action
Non-residents	397,553	431,380	466,618
Residents	29,399	33,179	33,510
<b>TOTAL</b>	426,952	464,559	500,127

**INVENTORY OF EXISTING, NO-ACTION, AND WITH-ACTION OPEN SPACE RESOURCES INCLUDED IN THE QUANTITATIVE ANALYSIS**

Map No.	Name/Location	Description	Hours of Access	Total Acres	% Passive	Passive Acres	% Active	Active Acres
20	Sony Plaza, 550 Madison Avenue	Indoor plaza with tables and movable chairs, benches, garbage cans, plantings, lighting, vendors, exhibition space, through-block connection between 55th and 56th Streets; outdoor arcade with potted plants, garbage cans	7 a.m.–11 p.m. (Indoor plaza); 24 hours/day (Outdoor arcade)	0.32	100%	0.32	0%	0.00
21	Park Avenue Tower, 65 East 55th Street	Plaza, planters with seating ledges, garbage cans	24 hours/day	0.15	100%	0.15	0%	0.00
24	535 Madison Avenue	Plaza/arcade, tables and movable chairs, trees, planters with seating ledges	24 hours/day	0.15	100%	0.15	0%	0.00
26	Paley Park, 3 East 53rd Street	Vest-pocket park, trees, plantings, tables and movable chairs, drinking fountain, garbage cans, water feature	Dawn to dusk	0.10	100%	0.10	0%	0.00
27	520 Madison Avenue	Plaza, trees, tables and movable chairs	24 hours/day	0.06	100%	0.06	0%	0.00
28	Lever House, 390 Park Avenue	Plaza, trees, planters, benches, lighting, sculpture	24 hours/day	0.26	100%	0.26	0%	0.00
29	Citigroup Center, 153 East 53rd Street	Indoor plaza with planters, tables and movable chairs, garbage cans, lighting, heat, piano, WiFi; outdoor plaza with trees, planters, garbage cans, water feature, vendors, lighting	7 a.m.–11 p.m., closed for events (Indoor plaza); 24 hours/day (Outdoor plaza)	0.45	100%	0.45	0%	0.00
34	HarperCollins Publishers, 10 East 53rd Street	Plaza/arcade with planters; through-block connection to 52nd Street with retail, seat wall / ledges	24 hours/day	0.15	100%	0.15	0%	0.00
35	Park Avenue Plaza, 55 East 52nd Street	Indoor plaza, tables and movable chairs, garbage cans, lighting, heating, vendors, exhibition space, waterfall, piano, artwork	8 a.m.–10 p.m.	0.30	100%	0.30	0%	0.00
36	Seagram Building, 375 Park Avenue	Plaza, seat wall / ledges, sculpture, water feature	24 hours/day	0.37	100%	0.37	0%	0.00
37	599 Lexington Avenue	Plaza, planters, benches, lighting	24 hours/day	0.34	100%	0.34	0%	0.00
40	The Olympic Tower, 645 Fifth Avenue	Indoor plaza with planters, tables and movable chairs, piano, artwork, restrooms, telephones	7 a.m.–midnight	0.20	100%	0.20	0%	0.00
41	40 East 52nd Street	Plaza, seat wall / ledges, planters, sculptures, garbage cans, lighting	24 hours/day	0.09	100%	0.09	0%	0.00
42	345 Park Avenue	Plaza, trees, planters with seating ledges, benches, seat wall / ledges, sculpture	24 hours/day	0.47	100%	0.47	0%	0.00



**INVENTORY OF EXISTING, NO-ACTION, AND WITH-ACTION OPEN SPACE RESOURCES INCLUDED IN THE QUANTITATIVE ANALYSIS (CONTINUED)**

<b>Map No.</b>	<b>Name/Location</b>	<b>Description</b>	<b>Hours of Access</b>	<b>Total Acres</b>	<b>% Passive</b>	<b>Passive Acres</b>	<b>% Active</b>	<b>Active Acres</b>
44	St. Patrick's Cathedral, 460 Madison Avenue	Plaza, steps	24 hours/day	0.74	100%	0.74	0%	0.00
45	New York Palace Hotel, 457 Madison Avenue	Courtyard, plantings	24 hours/day	0.14	100%	0.14	0%	0.00
46	560 Lexington Avenue	Indoor plaza with trees, planters, tables and movable chairs, garbage cans, artwork, vendors, heating; outdoor arcade with benches, lighting	24 hours/day	0.14	100%	0.14	0%	0.00
48	Wells Fargo Building, 437 Madison Avenue	Plaza/arcade, seat wall / ledges, seating steps, lighting	24 hours/day	0.28	100%	0.28	0%	0.00
49	800 Third Avenue	Plaza/arcade, trees, planters with seating ledges, garbage cans, bicycle racks	24 hours/day	0.04	100%	0.04	0%	0.00
52	Tower 49, 12 East 49th Street	Plaza/arcade, trees, planters, marble benches, seat wall / ledges	24 hours/day	0.27	100%	0.27	0%	0.00
53	280 Park Avenue	Plaza, trees, planters with seating ledges, tables and movable chairs, lighting	24 hours/day	0.40	100%	0.40	0%	0.00
54	299 Park Avenue	Plaza/arcade, trees, planters, benches, garbage cans	24 hours/day	0.36	100%	0.36	0%	0.00
55	Cosmopolitan Condominiums, 141 East 48th Street	Plaza, trees, planters with seating ledges, seat wall / ledges	24 hours/day	0.06	100%	0.06	0%	0.00
56	780 Third Avenue	Plaza, seat wall / ledges, lighting, food trucks	24 hours/day	0.09	100%	0.09	0%	0.00
57	777 Third Avenue	Plaza/arcade, benches, seating swing, trees, planters	24 hours/day	0.27	100%	0.27	0%	0.00
58	Libya House, 309 East 48th Street	Plaza/arcade, planters	24 hours/day	0.07	100%	0.07	0%	0.00
59	100 United Nations Plaza / 871 United Nations Plaza	Plaza, trees, planters with seating ledges, seat wall / ledges, sculpture, water feature	24 hours/day	0.28	100%	0.28	0%	0.00
60	767 Third Avenue	Plaza/arcade, seat wall / ledges, seating steps, benches, tables and chairs, garbage cans	24 hours/day	0.16	100%	0.16	0%	0.00
61	1 Dag Hammarskjold Plaza, 885 Second Avenue	Plaza, trees, planters, benches, seat wall / ledges, garbage cans	24 hours/day	0.38	100%	0.38	0%	0.00

**INVENTORY OF EXISTING, NO-ACTION, AND WITH-ACTION OPEN SPACE RESOURCES INCLUDED IN THE QUANTITATIVE ANALYSIS (CONTINUED)**

Map No. <sup>(1)</sup>	Name/Location	Description	Hours of Access	Total Acres	% Passive	Passive Acres	% Active	Active Acres
62	Trump World Tower, 845 First Avenue	Plaza, trees, planters with seating ledges, seat wall / ledges, benches, lighting	24 hours/day	0.15	100%	0.15	0%	0.00
63	575 Fifth Avenue	Indoor plaza with tables and movable chairs, garbage cans, lighting, heating; outdoor arcade	7 a.m.–midnight (indoor plaza); 24 hours/day (outdoor arcade)	0.23	100%	0.23	0%	0.00
64	245 Park Avenue	Plaza/arcade	24 hours/day	0.76	100%	0.76	0%	0.00
65	747 Third Avenue	Plaza, tables and fixed chairs, seat wall / ledges, lighting, gazebo, artwork	24 hours/day	0.10	100%	0.10	0%	0.00
66	212 East 47th Street	Plaza, benches, lighting, garbage cans	24 hours/day	0.12	100%	0.12	0%	0.00
67	Dag Hammarskjold Tower, 240 East 47th Street	Plaza, trees, planters with seating ledges, benches, lighting, garbage cans, water feature	24 hours/day	0.24	100%	0.24	0%	0.00
68	Dag Hammarskjold Plaza, 866 Second Avenue	Plaza/arcade, planters with seating ledges	24 hours/day	0.04	100%	0.04	0%	0.00
69	Dag Hammarskjold Plaza, 833 First Avenue	Plaza, trees, garden, benches, lighting, garbage cans, sculptures, steel lattice dome	24 hours/day	1.59	100%	1.59	0%	0.00
70	1166 Sixth Avenue	Plaza/arcade, tables and movable chairs, benches, seat walls / ledges, garbage cans, lamps, trees, plantings, sculpture, through-block connection between 45th and 46th Streets	24 hours/day	0.63	100%	0.63	0%	0.00
71	Belmont Public Plaza, 320 East 46th Street	Plaza, trees, planters, benches, lighting, garbage cans	8 a.m.–8 p.m. or dark, whichever is later	0.17	100%	0.17	0%	0.00
72	Two Grand Central Tower, 140 East 45th Street	Plaza/arcade, planters, garbage cans	24 hours/day	0.11	100%	0.11	0%	0.00
73	425 Lexington Avenue	Plaza, seat wall / ledges, planters with seating ledges, garbage cans	5/1–9/30, 7 a.m.–11:30 p.m.; 10/1–4/30, 7 a.m.–7 p.m.	0.10	100%	0.10	0%	0.00
74	685 Third Avenue	Vest-pocket park, trees, benches	10 a.m.–dusk	0.09	100%	0.09	0%	0.00
75	International Plaza, 303 East 43rd Street	Plaza, trees, planters, seats, garbage cans	24 hours/day	0.08	100%	0.08	0%	0.00
76	Grace Plaza, 1114 Sixth Avenue	Plaza/arcade, trees, plantings, tables and movable chairs, benches, garbage cans, water fountain, food vendor	24 hours/day	0.52	100%	0.52	0%	0.00
77	Emigrant Savings Bank, 6 East 43rd Street	Plaza, planters with seating ledges, statue	24 hours/day	0.03	100%	0.03	0%	0.00
78	201 East 42nd Street	Plaza, trees, planters, seat wall / ledges	24 hours/day	0.03	100%	0.03	0%	0.00

**INVENTORY OF EXISTING, NO-ACTION, AND WITH-ACTION OPEN SPACE RESOURCES INCLUDED IN THE QUANTITATIVE ANALYSIS (CONTINUED)**

Map No. <sup>(1)</sup>	Name/Location	Description	Hours of Access	Total Acres	% Passive	Passive Acres	% Active	Active Acres
79	Tudor City Greens (1 of 2), Tudor City Place, East 42nd Street to East 43rd Street	Park/plaza, plantings, trees, lamps, benches, movable chairs, walking path	7 a.m.–11 p.m.	0.25	100%	0.25	0%	0.00
80	Ralph Bunche Park, 741 First Avenue	Park/plaza, plantings, benches, sculpture	24 hours/day	0.42	100%	0.42	0%	0.00
81	Bryant Park, Sixth Avenue from West 40th Street to West 42nd Street	Tables and movable chairs, benches, lighting, trees, monuments / fountains, drinking fountain, garbage cans, vendors, carousel, game area, petanque courts, ping pong area, reading area, piano, ice rink (seasonal), subway access (B, D, F, M, 7)	opens at 7 a.m. daily; closing time varies with month, ranging from 7 p.m. to midnight	4.58	100%	4.58	0%	0.00
82	New York Public Library, Fifth Avenue at 42nd Street	Plaza/terrace, tables and movable chairs, seating steps, statues, trees, plantings	24 hours/day	1.01	100%	1.01	0%	0.00
83	Sculpture Court at Phillip Morris International, 120 Park Avenue	Indoor arcade with tables and movable chairs, plantings, seat wall / ledges, garbage cans; outdoor arcade with seat wall / ledges	Mon–Sat, 7:30 a.m.–9:30 p.m., / Sun, 11 a.m.–7 p.m. (indoor arcade); 24 hours/day (outdoor arcade)	0.21	100%	0.21	0%	0.00
84	Tudor City Greens (2 of 2), Tudor City Place, East 41st Street to East 42nd Street	Park/plaza, plantings, trees, lamps, benches, movable chairs, walking path	7 a.m.–11 p.m.	0.20	100%	0.20	0%	0.00
85	Trygve Lie Plaza, 725 First Avenue	Plaza, trees, planters with seating ledges, benches, lighting	24 hours/day	0.10	100%	0.10	0%	0.00
86	101 Park Avenue	Plaza/arcade, plantings, seat wall / ledges, seating steps	24 hours/day	0.34	100%	0.34	0%	0.00
87	Grand Central Plaza, 622 Third Avenue	Outdoor plaza with trees, planters with seating ledges, benches, seat wall / ledges, garbage cans; indoor arcade with benches, seat wall / ledges, lighting, heating; landscaped terrace with trees, planters with seating ledges, benches, tables and movable chairs, lattice, garbage cans	24 hours/day (outdoor plaza); weekdays 7 a.m.–8 p.m. / weekends 9 a.m.–6 p.m. (indoor arcade); 4/1–11/1, weekdays 7 a.m.–8 p.m. / weekends 9 a.m.–6 p.m., 11/2–3/31, weekdays 9 a.m.–6 p.m. / weekends closed (landscaped terrace)	0.62	100%	0.62	0%	0.00
88	The Vanderbilt, 235 East 40th Street	Plaza, trees, planters, seat wall / ledges, chairs, lighting, garbage cans, drinking fountain	24 hours/day	0.20	100%	0.20	0%	0.00

**INVENTORY OF EXISTING, NO-ACTION, AND WITH-ACTION OPEN SPACE RESOURCES INCLUDED IN THE QUANTITATIVE ANALYSIS (CONTINUED)**

<b>Map No. <sup>(1)</sup></b>	<b>Name/Location</b>	<b>Description</b>	<b>Hours of Access</b>	<b>Total Acres</b>	<b>% Passive</b>	<b>Passive Acres</b>	<b>% Active</b>	<b>Active Acres</b>
89	Archstone, 245 East 40th Street	Plaza/arcade, planters	24 hours/day	0.18	100%	0.18	0%	0.00
90	445 Fifth Avenue	Plaza, trees, planters, seat wall / ledges, garbage cans	24 hours/day	0.05	100%	0.05	0%	0.00
91	600 Third Avenue	Plaza/arcade, trees, planters with seating ledges, tables and movable chairs, lighting, garbage cans	24 hours/day	0.20	100%	0.20	0%	0.00
92	The Highpoint, 250 East 40th Street	Plaza, seat wall / ledges, garbage cans, water feature, bicycle rack	24 hours/day	0.15	100%	0.15	0%	0.00
95	420 Fifth Avenue	Plaza, trees, planters, potted plants, seat wall / ledges, lighting, garbage cans, bicycle rack	24 hours/day	0.09	100%	0.09	0%	0.00
96	Murray Hill Mews, 160 East 38th Street	Plaza, trees, planters, benches, lighting, garbage cans	9 a.m.– sunset	0.15	100%	0.15	0%	0.00
<b>EXISTING OPEN SPACE RESOURCES</b>				<b>20.84</b>	<b>100%</b>	<b>20.84</b>	<b>0%</b>	<b>0.00</b>

**INVENTORY OF EXISTING, NO-ACTION, AND WITH-ACTION OPEN SPACE RESOURCES INCLUDED IN THE QUANTITATIVE ANALYSIS (CONTINUED)**

Map No. <sup>(1)</sup>	Name/Location	Description	Hours of Access	Total Acres	% Passive	Passive Acres	% Active	Active Acres
100	7-11 East 51st Street/12-16 East 52nd Street	New plaza	24 hours/day	0.07	100%	0.07	0%	0.00
101	Portion of RWCDs Projected Development Site 17, 541 Lexington Avenue, 143-151 East 49th Street, 138 East 50th Street	New plaza	24 hours/day	0.17	100%	0.17	0%	0.00
102	RWCDs Projected Development Site 11, 7-17 East 47th Street	New plaza	24 hours/day	0.06	100%	0.06	0%	0.00
103	RWCDs Projected Development Site 15, 131-145 East 47th Street	New plaza	24 hours/day	0.05	100%	0.05	0%	0.00
104	Vanderbilt Avenue, between East 42nd and East 43rd Streets	New plaza	24 hours/day	0.28	100%	0.28	0%	0.00
105	Pershing Square Plaza, Park Avenue between East 41st and East 42nd Streets	New plaza	24 hours/day	0.37	100%	0.37	0%	0.00
106	Portion of First Avenue Properties, 685 First Avenue	New landscaped area	24 hours/day	0.17	100%	0.17	0%	0.00
<b>NO-ACTION OPEN SPACE RESOURCES</b>				<b>22.01</b>	<b>100%</b>	<b>22.01</b>	<b>0%</b>	<b>0.00</b>
107	Vanderbilt Avenue, between East 44 <sup>th</sup> and East 47 <sup>th</sup> Streets	New Plaza	24 hours/day	0.83	100%	0.83	0%	0.00
102	RWCDs Projected Development Site 11, 7-17 East 47th Street	New plaza	24 hours/day	-0.06 <sup>(2)</sup>	100%	-0.06 <sup>(2)</sup>	0%	0.00
103	RWCDs Projected Development Site 15, 131-145 East 47th Street	New plaza	24 hours/day	-0.05 <sup>(2)</sup>	100%	-0.05 <sup>(2)</sup>	0%	0.00
<b>WITH-ACTION OPEN SPACE RESOURCES</b>				<b>22.73</b>	<b>100%</b>	<b>22.73</b>	<b>0%</b>	<b>0.00</b>

Sources: New York City Department of Parks and Recreation open space database; *Privately Owned Public Spaces: The New York City Experience* (2000); Parsons Brinckerhoff field surveys, conducted October and November 2012.

(1) Refer to Figures 4-2 through 4-4 in Chapter 4, "Open Space," for locations of open space resources.

(2) The redevelopment of Projected Development Sites 11 and 15 would include plazas in the No-Action condition, but would not include plazas in the With-Action condition.

**DEVELOPMENT PROJECTS IN THE FUTURE WITHOUT THE SMALLER REZONING AREA/LESSER DENSITY  
ALTERNATIVE**

Development Name/Location <sup>(1)</sup>	Estimated Residents <sup>(2)</sup>	Estimated Non-Residents <sup>(3)</sup>	
		Estimated Workers <sup>(4)</sup>	Estimated Visitors <sup>(5)</sup>
Portion of Projected Development Site 17: 541 Lexington Avenue/143-151 East 49th Street/138 East 50th Street	0	502	1,747
Projected Development Site 18: 425 Park Avenue	0	2,241	0
36 East 51st Street	0	273	0
12-16 East 52nd Street/7-11 East 51st Street	428	69	0
19 East 54th Street/532-538 Madison Avenue	0	128	451
686-700 Third Avenue	0	183	644
451 Lexington Avenue	0	91	328
614 Lexington Avenue	76	160	619
Republic of Singapore, 318 East 48th Street	0	133	0
International Gem Tower, 50 West 47th Street	0	2,992	0
315 East 46th Street	83	2	0
10 UN Plaza/823 First Avenue	126	3	0
227-235 East 44th Street	0	49	232
516-520 Fifth Avenue	0	236	0
231 East 43rd Street	0	34	161
Portion of the First Avenue Properties development, 685 First Avenue <sup>(6)</sup>	1,695	65	0
14-20 West 40th Street	138	72	268
Refinery Hotel, 63 West 38th Street	0	74	351
45 West 38th Street	0	67	321
Spring Hill Suites by Marriott, 25 West 37th Street	0	65	309
<b>Total for Open Space Study Area</b>	<b>2,546</b>	<b>7,439</b>	<b>5,430</b>
		<b>12,869</b>	

**Sources:** DOB; DCP; *First Avenue Properties Final Supplemental EIS* (2008); *53 West 53rd Street Final EIS* (2009); Philip Habib & Associates (2013).

- (1) Refer to Figure 2-9 and Tables 2-4A and 2-4B in Chapter 2, "Land Use, Zoning, and Public Policy," for details of the development project for each site. Only those developments that fall within the open space study area are included in this table; accordingly, the UNDC and the 7 Bryant Park developments, which are located in Census Tracts 86.01 and 113, respectively, are both omitted.
- (2) Figures are based on information provided in respective environmental review documents or, if unavailable, an assumption of 1.59 residents per dwelling unit, based on an average number of residents per occupied housing unit calculated from 2010 Census data for the rezoning area.
- (3) The number of estimated non-residents represents the sum of estimated workers, visitors, and college/post-secondary students; as the No-Action development projects do not include any college/post-secondary school uses, there are no estimated college/post-secondary students associated with the No-Action projects.
- (4) Figures are based on information provided in respective environmental review documents or, if unavailable, standard employee generation rates of 1 employee per 250 sf of office space, 3 employees per 1,000 sf of retail space, 1 employee per 2.67 hotel rooms, 1 employee per 25 residential units, 1 employee per 1,000 sf of community facility uses, and 1 employee per 10,000 sf of parking floor area.
- (5) The number of estimated visitors represents an estimate of the number of hotel guests, calculated as the number of hotel rooms multiplied by an 89.2 percent occupancy rate (from New York City Economic Development Corporation, November 2012 Economic Snapshot) multiplied by 2 people per occupied hotel room (from *Special West Chelsea District Rezoning and High Line Open Space EIS*, 2004).
- (6) Of the four sites that collectively comprise the First Avenue Properties development (616, 685, 700, and 708 First Avenue), only 685 First Avenue is located within the open space study area. The development projects associated with the three other sites are excluded from the calculations in this table.

**NO-ACTION CONDITION FOR THE SMALLER REZONING AREA/LESSER DENSITY ALTERNATIVE: ADEQUACY OF OPEN SPACE RESOURCES**

	Total Population	Open Space Acreage			Open Space Ratios Per 1,000 People			CEQR Open Space Ratio Benchmark		
		Total	Passive	Active	Total	Passive	Active	Total	Passive	Active
Non-Residents	431,380				N/A	0.051	N/A	N/A	0.15	N/A
Combined Non-Residents and Residents	464,559	22.01	22.01	0.00	N/A	0.047	N/A	N/A	0.175 <sup>(1)</sup>	N/A

(1) Based on a target open space ratio established by creating a weighted average of the amount of open space necessary to meet the CEQR benchmark of 0.5 acres of passive open space per 1,000 residents and 0.15 acres of passive open space per 1,000 non-residents.

**WITH-ACTION CONDITION FOR THE SMALLER REZONING AREA/LESSER DENSITY ALTERNATIVE: ADEQUACY OF OPEN SPACE RESOURCES**

	Total Population	Open Space Acreage			Open Space Ratios Per 1,000 People			CEQR Open Space Ratio Benchmark		
		Total	Passive	Active	Total	Passive	Active	Total	Passive	Active
Non-Residents	466,618				N/A	0.049	N/A	N/A	0.15	N/A
Combined Non-Residents and Residents	500,127	22.73	22.73	0.00	N/A	0.045	N/A	N/A	0.173 <sup>(1)</sup>	N/A

(1) Based on a target open space ratio established by creating a weighted average of the amount of open space necessary to meet the CEQR benchmark of 0.5 acres of passive open space per 1,000 residents and 0.15 acres of passive open space per 1,000 non-residents.

**2033 FUTURE WITH THE SMALLER REZONING AREA/LESSER DENSITY ALTERNATIVE: PASSIVE OPEN SPACE RATIOS SUMMARY**

Ratio	CEQR Open Space Ratio Benchmark	Open Space Ratios per 1,000 People		Change from No-Action to With-Action	
		No-Action	With-Action	Absolute Change	Percentage Change
Non-Residents	0.15	0.051	0.049	-0.002	-3.92%
Combined Non-Residents and Residents	Weighted 0.175 / 0.173 (No-Action / With-Action) <sup>(1)</sup>	0.047	0.045	-0.002	-4.26%

(1) Based on a target open space ratio established by creating a weighted average of the amount of open space necessary to meet the CEQR benchmark of 0.5 acres of passive open space per 1,000 residents and 0.15 acres of passive open space per 1,000 non-residents. Since this benchmark depends on the proportion of non-residents and residents in the study area's population, it is different for existing, No-Action, and With-Action conditions.

**SMALLER REZONING AREA / LESSER DENSITY ALTERNATIVE WATER CONSUMPTION AND WASTEWATER GENERATION**

Land Use	Future Without the Proposed Action			Future Under the Smaller Rezoning Area/ Lesser Density Alternative			Incremental Changes Under the Smaller Rezoning Area/ Lesser Density Alternative		
	Area (sf)	Domestic Water/ Wastewater Generation (gpd)	A/C (gpd)	Area (sf)	Domestic Water/ Wastewater Generation (gpd)	A/C (gpd)	Area (sf)	Domestic Water/ Wastewater Generation (gpd)	A/C (gpd)
Residential	772,705 (776 DU)	123,400	0	207,029 (208 DU)	33,100	0	-565,675 (-568 DU)	-90,300	0
Commercial—Retail	380,136	91,233	64,623	436,386	104,733	74,186	56,250	13,500	9,563
Commercial—Office	3,912,625	391,263	665,146	7,430,478	743,048	1,263,181	3,517,853	351,785	598,035
Hotel	1,254,848 (1,931 rooms)	463,440	213,324	1,263,552 (1,944 rooms)	466,560	214,804	8,704 (13 rooms)	3,120	1,480
Water Consumption Subtotals		1,069,336	943,093		1,347,441	1,552,171		278,105	609,078
Sewage Generation Subtotal			1,069,336			1,347,441			278,105
Total Water Consumption			2,012,429			2,899,612			887,183
Total Wastewater Generation			1,069,336			1,347,441			278,105

**Notes:**  
DU = dwelling unit



**SMALLER REZONING AREA/ LESSER DENSITY ALTERNATIVE SOLID WASTE GENERATION ON PROJECTED DEVELOPMENT SITES**

<b>Use</b>	<b>Area (gsf)</b>	<b>Population<sup>1</sup></b>	<b>Solid Waste Generation Rate (lbs/wk)<sup>2</sup></b>	<b>Solid Waste Generation (lbs/wk)<sup>1</sup></b>
<b>Future Without the Proposed Action</b>				
Office	3,912,625	15,651 employees	13 per employee	203,463 (101.7 tons/wk)
General Retail <sup>3</sup>	380,136	1,140 employees	79 per employee	90,060 (45.0 tons/wk)
Hotel	1,254,848 (1,931 rooms)	723 employees	75 per employee	54,225 (27.1 tons/wk)
Residential	772,705 (776 DU)	776 households	41 per household	31,816 (15.9 tons/wk)
Parking	0	N/A	N/A	0
<b>Total Solid Waste Generation</b>				379,564 (189.8 tons/wk)
<b>Solid Waste Handled by Private Carters</b>				347,748 (173.9 tons/wk)
<b>Solid Waste Handled by DSNY</b>				31,816 (15.9 tons/wk)
<b>Future Under the Smaller Rezoning Area/ Lesser Density Alternative</b>				
Office	7,430,478	29,722 employees	13 per employee	386,386 (193.2 tons/wk)
General Retail <sup>3</sup>	436,386	1,309 employees	79 per employee	103,411 (51.7 tons/wk)
Hotel	1,263,552 (1,944 rooms)	728 employees	75 per employee	54,600 (27.3 tons/wk)
Residential	207,029 (208 DU)	208 households	41 per household	8,528 (4.3 tons/wk)
Parking	80,000	N/A	N/A	0
<b>Total Solid Waste Generation</b>				552,925 (276.5 tons/wk)
<b>Solid Waste Handled by Private Carters</b>				544,397 (272.2 tons/wk)
<b>Solid Waste Handled by DSNY</b>				8,528 (4.3 tons/wk)
<b>Incremental Changes Under the Smaller Rezoning Area/ Lesser Density Alternative</b>				
<b>Total Solid Waste Generation</b>				173,361 (86.7 tons/wk)
<b>Solid Waste Handled by Private Carters</b>				196,649 (98.3 tons/wk)
<b>Solid Waste Handled by DSNY</b>				-23,288 (-11.6 tons/wk)

**Notes:**

<sup>1</sup> Assumes 1 employee per 250 gsf of office, 3 employees per 1,000 gsf of retail, and 1 employee per 2.67 hotel rooms.

<sup>2</sup> Rates based on Table 14-1 of the *CEQR Technical Manual*.

<sup>3</sup> For consistency purposes, the general retail solid waste generation rate is used for existing, No-Action, and With-Action conditions.

**SMALLER REZONING AREA/ LESSER DENSITY ALTERNATIVE: ESTIMATED ANNUAL ENERGY CONSUMPTION ON PROJECTED DEVELOPMENT SITES**

Building Type	Rate of Consumption (Thousand BTU (MBtu)/ sq. ft) <sup>1</sup>	Future Without the Proposed Action		Future Under the Smaller Rezoning Area/ Lesser Density Alternative		Energy Use Increment Under the Smaller Rezoning Area/ Lesser Density Alternative
		Floor Area (sq. ft)	Annual Energy Consumption (million BTUs)	Floor Area (sq. ft)	Annual Energy Consumption (million BTUs)	
Office	216.3	3,912,625	846,301	7,430,478	1,607,212	760,911
Retail	216.3	380,136	82,223	436,386	94,390	12,167
Hotel	216.3	1,254,848	271,424	1,263,552	273,306	1,882
Residential	126.7	772,705	97,902	207,029	26,231	-71,671
Parking	216.3	0	0	80,000	17,304	17,304
<b>Total Energy Consumption</b>			<b>1,297,850</b>		<b>2,018,443</b>	<b>720,593</b>

**Notes:**

- 1. Based on rates provided in the CEQR Technical Manual, Table 15-1.  
 MBTUs = Thousand BTUs

**Direct Business and Institutional Displacement  
in the Smaller Rezoning Area/Lower Density Alternative**

<b>Site</b>	<b>Business Name<sup>1</sup></b>	<b>NAICS Economic Sector</b>	<b>Estimated Employment<sup>2</sup></b>
10	226 Associates	Real Estate and Rental and Leasing	1
1	274 Madison Ave Bldg	Real Estate and Rental and Leasing	2
1	4Food LLC	Accommodation and Food Services (Restaurant)	15
5	5th Church of Christ Scientist- Christian Science Reading Room	Other Services (Religious, Grantmaking, Civic, Professional, and Similar Organizations)	2
1	A & T Healthcare	Health Care and Social Assistance (Home Health Care Services)	750
6	A Accountancy At Pro Fit	Professional, Scientific, and Technical Services (Accounting)	175
1	AAICJ / American Association for the International Commission of Jurists	Other Services (Religious, Grantmaking, Civic, Professional, and Similar Organizations)	3
5	AAP Wireless Corp	Information (Telecommunications)	2
1	Able Associates Inc	Administrative and Support and Waste Management and Remediation Services (Employment Services)	2
1	Absolute Best Care Nanny Learning Center, Inc	Health Care and Social Assistance (Child Day Care Services)	3
1	Absolute Financial Management Inc	Finance and Insurance	5
1	Accent International Recruiting Group	Administrative and Support and Waste Management and Remediation Services (Employment Services)	2
1	Access Nursing Service	Administrative and Support and Waste Management and Remediation Services (Employment Services)	75
6	Adam Friedman Associates This Tech	Health Care and Social Assistance (Offices of Other Health Practitioners)	7
6	Adam Personnel Inc/Adam Temporary Service, Inc	Administrative and Support and Waste Management and Remediation Services (Employment Services)	15
6	Adeptus Partners LLC	Professional, Scientific, and Technical Services (Accounting)	15
10	Adlabs Films USA Inc	Wholesale Trade (Merchant Wholesalers, Durable Goods)	7
1	AE&T Worldwide Insurance	Finance and Insurance	8
3	Aerosoles	Retail Trade (Clothing/Accessories)	15
6	Aetna Life Insurance Company	Finance and Insurance	50
1	Alan David Custom	Retail Trade (Custom Suits- Men's Clothing)	2
1	Albert Weiss Air Conditioning Products, Inc.	Construction (Specialty Trade Contractors)	24
5	Alden Shoes	Retail Trade (Clothing/Accessories)	4
7	Alex's Shoe Repair	Other Services (Personal Service)	1
5	Allen Edmonds	Retail Trade (Clothing/Accessories)	6
1	Allied Cleaning Service	Administrative and Support and Waste Management and Remediation Services (Services to Buildings )	175
1	Amen Clinics, Inc.	Health Care and Social Assistance (Outpatient Care Centers)	5
6	American Graphic Institute	Educational Services (Business Schools and Computer and Management Training)	15

**Direct Business and Institutional Displacement  
in the Smaller Rezoning Area/Lower Density Alternative**

7	American Journal on Addictions	Information (Periodical Publishers)	7
10	American List Counsel	Professional, Scientific, and Technical Services (Advertising)	15
7	Ammos Estiatorio	Accommodation and Food Services (Restaurant)	25
1	Anemostat Products	Construction (Specialty Trade Contractors)	15
6	Angelique Bridal	Retail Trade (Clothing/Accessories)	2
1	Anne Nancy Newhouse LCSW	Health Care and Social Assistance (Offices of Other Health Practitioners)	2
6	Antwerp Distributors	Wholesale Trading (Merchant Wholesalers, Durable Goods)	15
6	Any 24 Emergency Towing	Transportation & Warehousing (Support Activities for Transportation)	2
6	Any 24 Hr Emergency Locksmith	Administrative and Support and Waste Management and Remediation Services (Investigation and Security)	2
6	Application Security Inc.	Professional, Scientific, and Technical Services (Computer Programming)	7
7	Aroya Capital	Finance and Insurance	2
1	Arrow Travel & Tours	Administrative and Support and Waste Management and Remediation Services (Travel Arrangement and Reservation Services)	10
6	At Harris Formal Wear	Retail Trade (Clothing/Accessories)	2
9	AT&T	Retail Trade (Electronics Store)	2
10	AT&T	Information (Telecommunications)	2
5	Athen's College	Educational Services (Colleges, Universities, and Professional Schools)	2
6	AxisPoint, Inc.	Professional, Scientific, and Technical Services (Computer Systems Design)	115
5	Babson Capital Management LLC	Finance and Insurance	2
10	Bachner Tally Polevoy & Misher	Professional, Scientific, and Technical Services (Law)	4
5	Banco Espirito Santo De Investimento Sa	Finance and Insurance	44
1	Barbara J Leader	Real Estate and Rental and Leasing	2
1	Barbara Jandelli LSW	Health Care and Social Assistance (Offices of Other Health Practitioners)	2
1	Barry A Mahler Attorney	Professional, Scientific, and Technical Services (Law)	2
1	Batzofin Fertility Services	Health Care and Social Assistance (Outpatient Care Centers)	2
1	Beauty Fashion	Information (Publishing Industries)	20
1	Behrman Communications	Professional, Scientific, and Technical Services (Public Relations)	35
1	Belkin, Burden, Wenig & Goldman, LLP	Professional, Scientific, and Technical Services (Law)	75
1	Benson Associates	Professional, Scientific, and Technical Services (Management, Scientific, and Technical Consulting Services)	7
5	Berkeley College	Educational Services (Colleges, Universities, and Professional Schools)	45
1	Beyond Oblivion Inc.	Information (Sound Recording Industry)	32
6	BFG Communications	Information (Telecommunications)	20
1	Bigel-Casher, Rita	Health Care and Social Assistance (Offices of Other Health Practitioners)	2

**Direct Business and Institutional Displacement  
in the Smaller Rezoning Area/Lower Density Alternative**

1	Birnbaum Bernard CPA	Professional, Scientific, and Technical Services (Accounting)	2
6	BIWA Co.	Wholesale Trading (Merchant Wholesalers, Nondurable Goods)	2
1	Black & Daiter, LLP	Professional, Scientific, and Technical Services (Law)	6
10	Black Hills Energy Inc	Professional, Scientific, and Technical Services (Energy Consulting)	20
7	Blake & Todd	Accommodation and Food Services (Restaurant)	15
10	BMC Software	Professional, Scientific, and Technical Services	50
1	Borrero-Perry, Anna	Health Care and Social Assistance (Offices of Other Health Practitioners)	2
6	Brac USA	Other Services (Religious, Grantmaking, Civic, Professional, and Similar Organizations)	7
5	Braemar Capital Management LLC	Finance and Insurance	15
5	Braemar Energy Ventures	Finance and Insurance	2
1	Bram-Murphy, Judith	Health Care and Social Assistance (Offices of Other Health Practitioners)	5
6	Braun Business Management, Co.	Finance and Insurance	7
7	Brause Realty Inc	Real Estate and Rental and Leasing	15
10	Brazilian Airlines-Varig	Transportation & Warehousing (Air Transportation)	15
6	Bridge Partners LLC	Administrative and Support and Waste Management and Remediation Services (Employment Services)	2
1	Briloff & Briloff	Professional, Scientific, and Technical Services (Accounting)	2
7	British American Business Inc	Other Services (Religious, Grantmaking, Civic, Professional, and Similar Organizations)	8
1	British American Tradition	Administrative and Support and Waste Management and Remediation Services (Employment Services)	3
5	Broadway Real Estate Service	Real Estate and Rental and Leasing	2
1	Bronwyn, Spira	Health Care and Social Assistance (Offices of Other Health Practitioners)	2
6	Brooks Brothers	Retail Trade (Clothing/Accessories)	360
6	Brooks Brothers	Retail Trade (Clothing/Accessories)	10
1	Bros Olivier	Health Care and Social Assistance (Offices of Other Health Practitioners)	2
1	Brown & Guilbert	Professional, Scientific, and Technical Services (Law)	8
5	Brown & Moskowitz	Professional, Scientific, and Technical Services (Law)	2
7	Building Management	Real Estate and Rental and Leasing	75
10	Bush Melinda Md	Health Care and Social Assistance (Offices of Physicians)	2
1	Butter, Robert LCSW	Health Care and Social Assistance (Offices of Other Health Practitioners)	1
1	Calabrese & Torn	Professional, Scientific, and Technical Services (Law)	2
6	Cammisa Law Firm	Professional, Scientific, and Technical Services (Law)	2

**Direct Business and Institutional Displacement  
in the Smaller Rezoning Area/Lower Density Alternative**

6	Canaccord Genuity Securities	Finance and Insurance	50
7	Cancer Investigation	Information (Periodical Publishers)	2
1	Caplan & Ross, LLP	Professional, Scientific, and Technical Services (Law)	5
7	Caprio Management	Finance and Insurance	50
6	Carlucci & Giardina	Professional, Scientific, and Technical Services (Law)	6
6	Carrier Coal Enterprises	Retail Trade (Fuel Dealers)	3
1	Carter Management	Administrative and Support and Waste Management and Remediation Services (Travel Arrangement and Reservation Services)	5
7	Cbs Outdoor	Professional, Scientific, and Technical Services (Advertising)	100
1	CC Benefits	Professional, Scientific, and Technical Services (Fashion Designer Services)	2
1	Cegid Corp	Retail Trade (Computer Software)	2
7	Centenium Capital Partners LLC	Finance and Insurance	2
6	Centrecourt Asset Management	Finance and Insurance	4
9	Chickpea	Accommodation and Food Services (Restaurant)	5
1	Children's Brain Tumor Foundation	Other Services (Religious, Grantmaking, Civic, Professional, and Similar Organizations)	4
1	China Silk Tours Inc	Administrative and Support and Waste Management and Remediation Services (Travel Arrangement and Reservation Services)	2
1	Chipotle	Accommodation and Food Services (Restaurant)	19
6	Chipp 2 Inc	Retail Trade (Pet Supplies)	2
1	Citak & Citak	Professional, Scientific, and Technical Services (Law)	4
9	Clark's	Retail Trade (Clothing/Accessories)	5
1	Claudia F Alabiso	Health Care and Social Assistance (Offices of Other Health Practitioners)	2
6	Clerestory Capital Partners	Finance and Insurance	6
5	Coach	Retail Trade (Clothing/Accessories)	2
1	Cole and Associates	Professional, Scientific, and Technical Services (Advertising)	4
10	Colliers International Vltm	Real Estate and Rental and Leasing	750
6	Color Merchants	Retail Trade (Jewelry, Luggage, and Leather Goods Stores)	25
7	Commender David	Professional, Scientific, and Technical Services (Law)	1
1	Community Network Corp	Professional, Scientific, and Technical Services (Other Services)	1
10	Connolly's Pub & Restaurant	Accommodation and Food Services (Restaurant)	15
10	Copiers By United Photocopy	Wholesale Trade (Merchant Wholesalers, Durable Goods)	35
5	Cornell Club - University Club	Other Services (Religious, Grantmaking, Civic, Professional, and Similar Organizations)	125
1	Corporate Properties Inc	Real Estate and Rental and Leasing	5
6	Corsair Capital Management	Finance and Insurance	10

**Direct Business and Institutional Displacement  
in the Smaller Rezoning Area/Lower Density Alternative**

1	Cosmetic World	Information (Publishing Industries)	4
1	CPR123	Educational Services (Educational Support Services)	5
6	Creative Booking Agency	Arts, Entertainment, and Recreation (Agents and Managers for Artists, Athletes, Entertainers, and Other Public Figures)	7
7	Crimson Service of New York	Professional, Scientific, and Technical Services (Other Services)	1
5	Custom Shop Shirtmakers	Other Services (Personal Service)	2
7	Cypress Associates LLC	Finance and Insurance	14
1	D Benedetto Inc	Wholesale Trading (Merchant Wholesalers, Nondurable Goods)	125
7	Daimaru Inc	Professional, Scientific, and Technical Services (Human Resources and Executive Search Consulting)	1
1	Dar El Salam	Administrative and Support and Waste Management and Remediation Services (Travel Arrangement and Reservation Services )	3
7	Datamonitor	Professional, Scientific, and Technical Services (Research)	175
10	David L Glanz	Professional, Scientific, and Technical Services (Law)	2
1	David P Schultz	Arts, Entertainment, and Recreation (Independent Artists, Writers, and Performers)	1
7	David's Shoe Repair Corp	Other Services (Personal Service)	2
1	Day Environmental Inc	Professional, Scientific, and Technical Services (Research)	2
1	Dennelisse	Health Care and Social Assistance (Social Assistance)	20
3	Diamond's	Retail Trade (Gift/Novelty Store)	7
10	Digby Management Corporation	Real Estate and Rental and Leasing	1
6	Direct Foreign Exchange Inc	Information (Data Processing, Hosting, and Related Services)	2
1	Directoral Printing	Administrative and Support and Waste Management and Remediation Services (Business Support Services)	5
6	Dishes	Accommodation and Food Services (Restaurant)	30
7	Dnb Asset Management Us Inc	Finance and Insurance	2
5	Doan Phuong DDS	Health Care and Social Assistance (Dentist)	2
1	Domain Park Avenue	Real Estate and Rental and Leasing	25
1	Domben Realty Corp	Real Estate and Rental and Leasing	10
7	Dorchester Group Hotel	Professional, Scientific, and Technical Services (Process & Logistics Consulting)	7
1	Dougherty, Eileen F	Health Care and Social Assistance (Offices of Other Health Practitioners)	2
6	Doyle Trading	Professional, Scientific, and Technical Services (Energy Research)	2
1	Dr. Caralis, Dionyssios	Health Care and Social Assistance (Offices of Other Health Practitioners)	1
1	Dr. Irwin Abraham MD	Health Care and Social Assistance (Offices of Physicians)	2
1	Dr. Jack Bruder MD	Health Care and Social Assistance (Offices of Physicians)	2

**Direct Business and Institutional Displacement  
in the Smaller Rezoning Area/Lower Density Alternative**

5	Dr. Stanley I Okun DDS	Health Care and Social Assistance (Dentist)	2
6	Dressel & Hatab, PC	Professional, Scientific, and Technical Services (Law)	2
5	Dreyfuss & Birke Ltd	Finance and Insurance	15
6	Duca USA	Other Services (Personal Service)	2
1	Ebner Publishing	Information (Publishing Industries)	7
1	Ebony Express Travel	Administrative and Support and Waste Management and Remediation Services (Travel Arrangement and Reservation Services)	2
1	Eden Personnel	Administrative and Support and Waste Management and Remediation Services (Employment Services)	7
1	Edward F Westfield PC	Professional, Scientific, and Technical Services (Law)	3
5	Edward Wilson DDS	Health Care and Social Assistance (Dentist)	6
6	Eilenberg & Krause LLP	Professional, Scientific, and Technical Services (Law)	7
1	ELEM / Youth In Distress, Inc.	Other Services (Religious, Grantmaking, Civic, Professional, and Similar Organizations)	5
6	Energtek Inc	Professional, Scientific, and Technical Services (Energy Services Supplier)	15
1	Epic Staffing	Administrative and Support and Waste Management and Remediation Services (Employment Services)	2
1	Epicure Café & Caterers	Accommodation and Food Services (Restaurant)	15
10	Ernst & Young	Professional, Scientific, and Technical Services (Accounting)	7
6	Facet Industries Inc.	Wholesale Trading (Merchant Wholesalers, Durable Goods)	5
1	Family Medicine NYC	Health Care and Social Assistance (Offices of Other Health Practitioners)	5
1	Fashion Footwear Association of NY	Other Services (Religious, Grantmaking, Civic, Professional, and Similar Organizations)	7
1	Fashion Fragrances & Cosmetics Ltd.	Retail Trade (Cosmetics/Beauty Supplies)	4
1	Fast Office	Retail Trade (General Merchandise Stores)	40
1	Fastats Graphic Service	Administrative and Support and Waste Management and Remediation Services (Business Support Services)	35
7	FedEx Office	Administrative and Support and Waste Management and Remediation Services (Business Support Services)	2
5	Fila USA Inc	Professional, Scientific, and Technical Services (Fashion Designer Services)	75
9	Filicon Zecchini	Accommodation and Food Services (Restaurant)	10
1	Film Emporium, Inc	Wholesale Trading (Merchant Wholesalers, Durable Goods)	4
7	Folio Dynamix	Finance and Insurance	15
1	Foremost Window Cleaning Inc	Administrative and Support and Waste Management and Remediation Services (Services to Buildings)	165
10	Fortuna Realty Group	Real Estate and Rental and Leasing	2



**Direct Business and Institutional Displacement  
in the Smaller Rezoning Area/Lower Density Alternative**

1	Franzese, Beth	Health Care and Social Assistance (Massage Therapist)	1
1	Fribb Realty	Real Estate and Rental and Leasing	5
6	GAIAM/GT Media	Professional, Scientific, and Technical Services (Management Consulting)	2
10	Gamma Communications	Professional, Scientific, and Technical Services (Advertising)	2
1	Gardner, Weiss & Rosenblum LLP	Professional, Scientific, and Technical Services (Law)	10
1	Gardy, Bart	Health Care and Social Assistance (Offices of Other Health Practitioners)	1
1	Gary S Eisenkraft CPA	Professional, Scientific, and Technical Services (Accounting)	2
1	Gates Music Inc.	Retail Trade (Musical Instrument Supply Store)	2
1	Gemological Institute of America (GIA)	Other Services (Religious, Grantmaking, Civic, Professional, and Similar Organizations)	5
1	Genesis Financial Services Group, Inc.	Finance and Insurance	2
1	Glattstein, Susan B	Professional, Scientific, and Technical Services (Graphic Design)	2
10	Global Career	Educational Services (Other Schools and Instruction)	2
1	Goldstein & Handwerker, LLP	Professional, Scientific, and Technical Services (Law)	4
6	Gordrib Consulting Services, Inc.	Professional, Scientific, and Technical Services (Accounting)	7
1	Gottlieb, Rackman & Reisman, P.C.	Professional, Scientific, and Technical Services (Law)	75
9	Grand Central Optical	Retail Trade (Optical Goods Store)	6
10	Guaranty Risk Service Inc	Professional, Scientific, and Technical Services (Credit Consulting)	2
10	Hale & Hearty Soups	Accommodation and Food Services (Restaurant)	10
1	Hamilton Watch Repairs & Sales	Retail Trade (Clothing/Accessories)	2
1	Haran Business Forms & Printing	Administrative and Support and Waste Management and Remediation Services (Business Support Services)	5
7	Harvard Review - Psychiatry	Information (Periodical Publishers)	7
10	Haskell & Stern Associates	Administrative and Support and Waste Management and Remediation Services (Employment Services)	5
5	HB Candy Store	Retail Trade (Confectionary)	2
7	Hc Wainwright	Finance and Insurance	2
1	Health Force Solutions	Health Care and Social Assistance (Home Health Care Services)	5
1	Health Staffing	Administrative and Support and Waste Management and Remediation Services (Employment Services)	2
6	Henri Bar & Co.	Wholesale Trading (Merchant Wholesalers, Durable Goods)	5
1	Hespos, Gerald	Professional, Scientific, and Technical Services (Law)	2
6	Hines Interests, L.P.	Real Estate and Rental and Leasing	30
10	Hospitality Resources	Professional, Scientific, and Technical Services (Other Consulting Services)	1

**Direct Business and Institutional Displacement  
in the Smaller Rezoning Area/Lower Density Alternative**

1	Hotel Internet Strategies	Professional, Scientific, and Technical Services (Advertising)	6
7	Hudson Allen & Co	Finance and Insurance	2
1	Hughes, Dawn M PhD	Health Care and Social Assistance (Offices of Other Health Practitioners)	1
6	I. Halpern, Inc. (jeweler)	Wholesale Trading (Merchant Wholesalers, Durable Goods)	5
1	Iberica USA	Professional, Scientific, and Technical Services (Research)	5
6	Icon Group USA	Professional, Scientific, and Technical Services (Security Consulting and Risk Management)	10
1	Igal American Enterprises Inc	Administrative and Support and Waste Management and Remediation Services (Business Support Services)	2
1	Iglobal Communications Corp	Information (Other Telecommunications)	1
5	IMG	Finance and Insurance	7
6	Indigo Diamonds LLC	Wholesale Trading (Merchant Wholesalers, Durable Goods)	15
1	Infinity Land Services LLC	Real Estate and Rental and Leasing	2
7	Informa Healthcare	Information (Periodical Publishers)	750
1	Inhealth Staffing Service	Administrative and Support and Waste Management and Remediation Services (Employment Services)	2
6	Intenational Tax Service	Professional, Scientific, and Technical Services (Accounting)	2
1	Interactive Sports	Arts, Entertainment, and Recreation (Promoters of Performing Arts, Sports, and Similar Events)	35
16	Intercontinental New York Barclay Hotel	Accommodation and Food Services (Hotel)	450
6	Interest on Lawyer Account	Professional, Scientific, and Technical Services (Law)	7
10	Intermarket Communications	Professional, Scientific, and Technical Services (Communications Consulting and Public Relations)	2
1	International Express Travel	Administrative and Support and Waste Management and Remediation Services (Travel Arrangement and Reservation Services)	2
5	Invicta Advisors LLC	Administrative and Support and Waste Management and Remediation Services (Business Support Services)	3
1	Isaacson, Pat	Health Care and Social Assistance (Offices of Other Health Practitioners)	2
10	Itg Solutions Network	Finance and Insurance	900
1	Izi Media Group	Finance and Insurance	2
10	J. Press	Retail Trade (Clothing/Accessories)	15
1	Jackknife Films	Information (Motion Picture and Sound Recording Industries)	3
1	Jack's 99 Cent Store	Retail Trade (Discount Store)	21
6	James Allen	Wholesale Trading (Merchant Wholesalers, Durable Goods)	7
1	James E Gear Attorney	Professional, Scientific, and Technical Services (Law)	2

**Direct Business and Institutional Displacement  
in the Smaller Rezoning Area/Lower Density Alternative**

1	James P Concoran Attorney	Professional, Scientific, and Technical Services (Law)	2
1	Jandelli, Barbara	Health Care and Social Assistance (Offices of Other Health Practitioners)	2
1	Japan Center for International Exchange	Other Services (Religious, Grantmaking, Civic, Professional, and Similar Organizations)	2
1	Jasmine Productions of NY Inc	Educational Services (Technical and Trade Schools)	2
9	Jean-Claude Biguine	Other Services (Personal Care Services)	20
1	Jeffrey A. Aronsky, Attorney At law	Professional, Scientific, and Technical Services (Law)	3
1	Jerome International	Finance and Insurance	2
7	Jewelers for Children	Other Services (Religious, Grantmaking, Civic, Professional, and Similar Organizations)	2
6	Jewelers Security Alliance (JSA)	Other Services (Religious, Grantmaking, Civic, Professional, and Similar Organizations)	7
1	Jie Jin DDS	Health Care and Social Assistance (Dentist)	4
9	John Allan's	Other Services (Personal Care Services)	15
1	Jonathan S. Feinsilver, PC	Professional, Scientific, and Technical Services (Law)	3
7	Journal of Asthma	Information (Periodical Publishers)	2
10	June Saley Management	Professional, Scientific, and Technical Services (Process & Logistics Consulting)	2
5	Kairos Research (US) Inc.	Finance and Insurance	160
6	Kaiser Financial Group Inc.	Finance and Insurance	5
1	Karen McClain-Marvin, LCSW	Health Care and Social Assistance (Offices of Other Health Practitioners)	2
1	Katlowitz & Associates	Professional, Scientific, and Technical Services (Law)	7
7	Kenneth H Kranz Pc	Professional, Scientific, and Technical Services (Accounting)	6
1	Kimmel & Kimmel	Professional, Scientific, and Technical Services (Law)	2
6	Kleeberg & Greenwald	Professional, Scientific, and Technical Services (Law)	2
1	Kole & Kole	Professional, Scientific, and Technical Services (Law)	2
1	Krinsky & Musumeci	Professional, Scientific, and Technical Services (Law)	5
10	Labrador Search Corp	Administrative and Support and Waste Management and Remediation Services (Employment Services)	5
1	Lambert & Schackman PLLC	Professional, Scientific, and Technical Services (Law)	4
6	Lavipour & Company, LLC	Real Estate and Rental and Leasing	5
1	Law Office of Mark R. Kook	Professional, Scientific, and Technical Services (Law)	2
1	Law Office of Peter Wessel	Professional, Scientific, and Technical Services (Law)	3
1	Lawrence Best CPA	Professional, Scientific, and Technical Services (Accounting)	2
5	Le Pain Quotidien	Accommodation and Food Services (Restaurant)	35

**Direct Business and Institutional Displacement  
in the Smaller Rezoning Area/Lower Density Alternative**

1	Leader Realty Advisors Ltd	Real Estate and Rental and Leasing	2
6	Leavy Rosenweig & Hyman	Professional, Scientific, and Technical Services (Law)	35
1	Leshkowitz & Company, CPAs	Professional, Scientific, and Technical Services (Accounting)	38
1	Leslie Silver & Associates	Administrative and Support and Waste Management and Remediation Services (Employment Services)	5
1	Lester S Caesar & Co	Professional, Scientific, and Technical Services (Accounting)	7
1	Lewis Consultants	Administrative and Support and Waste Management and Remediation Services (Employment Services)	3
1	Lidell Specialties Inc	Wholesale Trade (Miscellaneous Durable Goods Merchant Wholesalers)	2
5	Linda Sarett DDS	Health Care and Social Assistance (Dentist)	2
1	Liu, Sherry	Administrative and Support and Waste Management and Remediation Services (Travel Arrangement and Reservation Services)	2
1	Lombard Risk International USA Inc.	Finance and Insurance	175
6	Lone Star Capital, LLC	Finance and Insurance	10
1	Lux75 Design Associates LLC	Professional, Scientific, and Technical Services (Other Services)	2
1	LWS Household Services	Health Care and Social Assistance (Home Health Care Services)	10
1	Lynn, Gordon	Health Care and Social Assistance (Offices of Other Health Practitioners)	2
6	Macarthur Associates (Stride & Associates Bond Tech)	Administrative and Support and Waste Management and Remediation Services (Employment Services)	22
1	Madison Ave Physical Rehabilitation & Wellness Inc	Health Care and Social Assistance (Offices of Other Health Practitioners)	15
1	Madison Medical Practice	Health Care and Social Assistance (Offices of Physicians)	7
6	Madison Performance Group	Professional, Scientific, and Technical Services (Marketing)	75
6	Manchester Real Estate & Construction LLC	Real Estate and Rental and Leasing	5
1	Manhattan Chiropractic Rehabilitation & Wellness	Health Care and Social Assistance (Offices of Other Health Practitioners)	3
7	Manhattan Institute for Policy	Other Services (Religious, Grantmaking, Civic, Professional, and Similar Organizations)	35
1	Marcus & Millichap	Real Estate and Rental and Leasing	75
1	Margolis & Tisman LLP	Professional, Scientific, and Technical Services (Law)	7
6	Margolis Law Firm	Professional, Scientific, and Technical Services (Law)	7
1	Marketing by Mail	Professional, Scientific, and Technical Services (Marketing)	2
1	Martin Petroff & Associates	Professional, Scientific, and Technical Services (Law)	2
1	Mary Anne Lowell CSW	Health Care and Social Assistance (Offices of Other Health Practitioners)	2

**Direct Business and Institutional Displacement  
in the Smaller Rezoning Area/Lower Density Alternative**

7	Masaki Shinomura CPA PC	Professional, Scientific, and Technical Services (Accounting)	7
5	Massachusetts Mutual Life Insurance	Finance and Insurance	140
1	Matthews & Co. LLP	Professional, Scientific, and Technical Services (Accounting)	25
1	Maxons Restorations Inc	Construction (Specialty Trade Contractors)	20
1	Maxwell Medical	Health Care and Social Assistance (Offices of Other Health Practitioners)	40
5	McDermott Will & Emery LLP	Professional, Scientific, and Technical Services (Law)	200
1	McDonalds	Accommodation and Food Services (Restaurant)	15
10	McDonalds	Accommodation and Food Services (Restaurant)	15
10	Mci Worldcom	Information (Telecommunications)	7
6	Mel Evans Associates	Administrative and Support and Waste Management and Remediation Services (Employment Services)	7
10	Men's Warehouse	Retail Trade (Clothing/Accessories)	11
1	Meridian Development Partner	Real Estate and Rental and Leasing	2
1	Meryl G Alster and Mana M Ackaway LCSW	Health Care and Social Assistance (Offices of Other Health Practitioners)	3
5	Michael Hovarth DDS	Health Care and Social Assistance (Dentist)	2
6	Michael Levine Search Consultants	Administrative and Support and Waste Management and Remediation Services (Employment Services)	5
1	Midtown Counseling Associates Inc	Health Care and Social Assistance (Offices of Other Health Practitioners)	2
1	Midtown Internal Medicine, PLLC	Health Care and Social Assistance (Offices of Physicians)	4
1	Midtown Medical Group	Health Care and Social Assistance (Offices of Physicians)	8
10	Moinian Development Corp LLC	Real Estate and Rental and Leasing	2
1	Morgan Rose Realty	Real Estate and Rental and Leasing	2
10	Morgenstern & Blue LLC	Professional, Scientific, and Technical Services (Law)	7
6	MRPT Physical Therapy	Health Care and Social Assistance (Offices of Other Health Practitioners)	2
1	Much Kneaded Massage NYC	Other Services (Personal Care Services)	1
6	My Diamonds LLC	Wholesale Trading (Merchant Wholesalers, Durable Goods)	3
1	Nancy Auster CSW	Health Care and Social Assistance (Offices of Other Health Practitioners)	2
1	Nancy Parcell Psychotherapy	Health Care and Social Assistance (Offices of Physicians)	1
7	Nathan M Barotz Atty at Law	Professional, Scientific, and Technical Services (Law)	1
5	National Financial Partners	Finance and Insurance	2,869
1	Nationwide Tax Solutions	Professional, Scientific, and Technical Services (Accounting)	3
7	Natural Color Diamond Assoc	Retail Trade (Jewelry Store)	2
6	Natural Sapphire Company / N.S.C. Inc. / Walter Arnstein Inc.	Retail Trade (Jewelry Store)	3
5	Nemco Brokerage, Inc	Finance and Insurance	35

**Direct Business and Institutional Displacement  
in the Smaller Rezoning Area/Lower Density Alternative**

1	New York Executive Office	Administrative and Support and Waste Management and Remediation Services (Business Support Services)	2
1	New York Fertility Services	Health Care and Social Assistance (Outpatient Care Centers)	15
7	New York Mortgage & Trust Inc	Finance and Insurance	4
6	Newland Capital Management, LLC	Finance and Insurance	10
1	Niagara Exterminating Co Inc	Administrative and Support and Waste Management and Remediation Services (Services to Buildings)	2
6	Nissel & Nissel	Professional, Scientific, and Technical Services (Accounting)	7
6	Norman Locke Temporary Service	Administrative and Support and Waste Management and Remediation Services (Employment Services)	2
5	Nuveen Investments / Nuveen, John & Co Inc	Finance and Insurance	10
6	NYC Dental Professionals	Health Care and Social Assistance (Dentist)	5
7	O S Consulting	Professional, Scientific, and Technical Services (Computer Systems Design)	6
6	Oakwood Temporary Housing	Real Estate and Rental and Leasing	15
6	Odiro Inc.	Wholesale Trading (Merchant Wholesalers, Durable Goods)	2
10	Ogilvy & Mather	Professional, Scientific, and Technical Services (Advertising, Marketing, and Public Relations)	20
3	O'Henry's Film Works	Professional, Scientific, and Technical Services (Photography Services)	2
7	Olivier Co	Wholesale Trade (Packaged Frozen Foods)	3
1	Open Hospitality	Information (Data Processing, Hosting, and Related Services)	35
7	Oxbridge Group	Professional, Scientific, and Technical Services (Law)	2
5	Panorama Dental PC	Health Care and Social Assistance (Dentist)	4
1	Park Avenue Acoustics	Professional, Scientific, and Technical Services (Acoustics)	7
1	Patriot Air	Construction (Specialty Trade Contractors)	9
7	Patriot Communication	Information (Other Telecommunications)	1
1	Paul D Schurgot Foundation Inc	Other Services (Religious, Grantmaking, Civic, Professional, and Similar Organizations)	1
6	Paul Stuart	Retail Trade (Clothing/Accessories)	200
1	People to Capital	Finance and Insurance	2
7	Platinum Equity LLC	Finance and Insurance	7
5	PNC Bank	Finance and Insurance	3
5	PNC Bank	Finance and Insurance	160
6	Poledar Realty Inc.	Real Estate and Rental and Leasing	1
6	Powell & Jacobs	Professional, Scientific, and Technical Services (Accounting)	1
7	Poyry Management Consulting	Professional, Scientific, and Technical Services (Human Resources Consulting)	30
6	Premium Funding Group LLC	Finance and Insurance	15
3	Pret A Manger	Accommodation and Food Services (Restaurant)	10
6	Primary Colors	Wholesale Trading (Merchant Wholesalers, Durable Goods)	2

**Direct Business and Institutional Displacement  
in the Smaller Rezoning Area/Lower Density Alternative**

1	Proactive Technologies	Professional, Scientific, and Technical Services (Telecommunications Management)	15
6	Profit Planners	Professional, Scientific, and Technical Services (Management, Scientific, and Technical Consulting Services)	2
1	Proforma Printgraphics	Administrative and Support and Waste Management and Remediation Services (Business Support Services)	2
10	Pythagoras General Contracting	Construction (Specialty Trade Contractors)	2
7	Quality Transportation	Administrative and Support and Waste Management and Remediation Services (Business Support) - Local Courier/Delivery Services	35
1	Quinn Mccabe Attorney	Professional, Scientific, and Technical Services (Law)	20
6	R2Net	Professional, Scientific, and Technical Services (Marketing)	10
10	Radical Corp	Professional, Scientific, and Technical Services (Computer Systems Design)	5
9	Rain or Shine	Retail Trade (Gift/Novelty Store)	2
1	Rainbow	Retail Trade (Clothing/Accessories)	6
1	RateFinancials Inc.	Finance and Insurance	15
6	Real Estate Tax Review Bar Association	Other Services (Religious, Grantmaking, Civic, Professional, and Similar Organizations)	2
6	Real Gems Inc.	Wholesale Trading (Merchant Wholesalers, Durable Goods)	35
5	Regent Business Center	Real Estate and Rental and Leasing	2
7	Results International	Finance and Insurance	2
10	Retail Brand Alliance Inc	Management of Companies and Enterprises	2
7	Rettagliata Michael CPA	Professional, Scientific, and Technical Services (Accounting)	4
6	Ribet & Gordon	Professional, Scientific, and Technical Services (Accounting)	3
3	Riflessi	Retail Trade (Clothing/Accessories)	2
7	Rohman Development	Real Estate and Rental and Leasing	6
1	Ron Gordon Watches Sales & Services	Retail Trade (Clothing/Accessories)	3
9	Roosevelt Hotel	Accommodation and Food Services (Hotel)	750
1	Rosemark Group	Real Estate and Rental and Leasing	15
1	Rosenblatt & Company Attorneys PLLC	Professional, Scientific, and Technical Services (Law)	1
1	Rosenfield Reich Reporting	Administrative and Support and Waste Management and Remediation Services (Office Administrative Services)	1
1	Ross & Asmar LLC, Attorneys At Law	Professional, Scientific, and Technical Services (Law)	3
1	Ross Staffing Services, Inc	Administrative and Support and Waste Management and Remediation Services (Employment Services)	10
6	Round M. Nices Inc.	Other Services (Personal Service)	2
1	Ruck Associates Inc	Professional, Scientific, and Technical Services (Management, Scientific, and Technical Consulting Services)	7
6	Rudinger Realty	Real Estate and Rental and Leasing	1

**Direct Business and Institutional Displacement  
in the Smaller Rezoning Area/Lower Density Alternative**

1	Russell S Burman Attorney	Professional, Scientific, and Technical Services (Law)	2
1	Salute	Accommodation and Food Services (Restaurant)	50
1	Samuel Boodman & Co	Professional, Scientific, and Technical Services (Accounting)	5
6	Sapporo USA Inc	Wholesale Trading (Merchant Wholesalers, Nondurable Goods)	15
6	Sarah Jassir Design, Inc.	Professional, Scientific, and Technical Services (Other Services)	2
9	Sarar	Retail Trade (Clothing/Accessories)	5
5	Sassan Rastegar DDS	Health Care and Social Assistance (Dentist)	2
5	Schindler, Marc	Real Estate and Rental and Leasing	2
1	Scott Eisenberg Law Office	Professional, Scientific, and Technical Services (Law)	3
7	Scrip World Pharmaceutical Nws	Wholesale Trade (Druggists Goods Merchant Wholesalers)	2
1	Securities America, Robert Wander	Finance and Insurance	1
1	Seecof, Joan	Health Care and Social Assistance (Offices of Other Health Practitioners)	1
6	Sfikas Karambelas & Akaras LLP	Professional, Scientific, and Technical Services (Law)	2
1	SGP International, Inc.	Professional, Scientific, and Technical Services (Computer Programming)	12
1	Shelby Ald LCSW	Health Care and Social Assistance (Offices of Other Health Practitioners)	3
1	Simon, Steven M	Finance and Insurance	7
1	Sky Technologies Inc	Information (Other Telecommunications)	7
1	Smolka & Summers	Professional, Scientific, and Technical Services (Law)	2
1	Snell & Wilcox Inc	Information (Digital media/TV broadcasting infrastructure support)	2
10	Snyder Communications	Information (Telecommunications)	15
1	Spencer Residential Inc	Real Estate and Rental and Leasing	2
1	Square One Group	Professional, Scientific, and Technical Services (Marketing)	3
1	Stack LLC	Information (Publishing Industries)	35
1	Stacy B Krieger Attorney	Professional, Scientific, and Technical Services (Law)	3
1	Stan Hamlet Associates Inc	Administrative and Support and Waste Management and Remediation Services (Employment Services)	10
7	Stanton Chase International	Administrative and Support and Waste Management and Remediation Services (Employment Services)	8
5	Starbucks	Accommodation and Food Services (Restaurant)	14
1	Sternbach Law Office	Professional, Scientific, and Technical Services (Law)	2
5	Stevan A Smith DDS	Health Care and Social Assistance (Dentist)	2
1	Steven Landy & Associates, PLLC	Professional, Scientific, and Technical Services (Law)	6
7	Strategas Research Partners	Finance and Insurance	3
1	Stuart L. Melnick LLC	Professional, Scientific, and Technical Services (Law)	2
1	Studio Hair Plus	Other Services (Personal Care Services)	15



**Direct Business and Institutional Displacement  
in the Smaller Rezoning Area/Lower Density Alternative**

5	Sungard	Information (Publishing Industries-Software Publishers)	500
1	Sunset International Travel	Administrative and Support and Waste Management and Remediation Services (Travel Arrangement and Reservation Services)	2
1	Sunshein Chiropractic	Health Care and Social Assistance (Offices of Other Health Practitioners)	2
1	Susan Bernard LCSW	Health Care and Social Assistance (Offices of Other Health Practitioners)	2
1	Suzanne K Bracker Attorney	Professional, Scientific, and Technical Services (Law)	2
9	Swarovski	Retail Trade (Gift/Novelty Store)	2
10	Symantec Corp	Information (Publishing Industries-Software Publishers)	65
1	Tabit USA	Administrative and Support and Waste Management and Remediation Services (Travel Arrangement and Reservation Services)	7
6	Talener Group	Administrative and Support and Waste Management and Remediation Services (Employment Services)	25
1	Taub, Stanley	Professional, Scientific, and Technical Services (Accounting)	1
1	Taylor & Taylor	Finance and Insurance	45
1	Teakwood Group, Ltd.	Real Estate and Rental and Leasing	2
6	Techsoft Corporation	Administrative and Support and Waste Management and Remediation Services (Business Support Services)	2
9	The Art of Shaving	Retail Trade (Cosmetics/Beauty Supplies)	2
1	The Berkley Center for Reproductive Wellness & Women's Health	Health Care and Social Assistance (Outpatient Care Centers)	7
1	The Bocuse D'Or USA Foundation	Other Services (Religious, Grantmaking, Civic, Professional, and Similar Organizations)	2
1	The Dinex Group	Management of Companies and Enterprises	350
1	The Kleban Foundation	Other Services (Religious, Grantmaking, Civic, Professional, and Similar Organizations)	1
1	The Levy Firm	Finance and Insurance	2
7	The Shirt Store	Retail Trade (Clothing/Accessories)	10
1	Todd M Mac Cauley LLC	Professional, Scientific, and Technical Services (Law)	2
1	Tomkiel & Tomkiel, PC, Esqs	Professional, Scientific, and Technical Services (Law)	5
1	Topper, Pamela S	Health Care and Social Assistance (Offices of Other Health Practitioners)	1
7	Tra Global	Professional, Scientific, and Technical Services (Advertising)	20
6	Trac Tech Systems Inc.	Administrative and Support and Waste Management and Remediation Services (Other Support Services)	1
6	Traction Group	Administrative and Support and Waste Management and Remediation Services (Business Support Services)	2

**Direct Business and Institutional Displacement  
in the Smaller Rezoning Area/Lower Density Alternative**

6	Trellus Management	Finance and Insurance	2
6	TS Tenant LLC/TP Solutions Inc	Administrative and Support and Waste Management and Remediation Services (Business Support Services)	1
6	Tuchman, Katz, Schwartz, Gelles, Korngold, & Weiss, LLP	Professional, Scientific, and Technical Services (Law)	15
9	Tumi Ambassador	Retail Trade (Luggage)	3
5	Twitter	Information (Telecommunications)	100
5	Txvia, Inc	Professional, Scientific, and Technical Services (Computer Programming)	29
10	Ultramar Travel Management	Administrative and Support and Waste Management and Remediation Services (Travel Arrangement and Reservation Services )	215
9	Uncle Paul's Pizza NY	Accommodation and Food Services (Restaurant)	5
1	Undertone Networks, Inc.	Professional, Scientific, and Technical Services (Advertising)	131
6	Unica Properties Corp.	Real Estate and Rental and Leasing	2
5	Unicorn Partners	Finance and Insurance	2
5	Unison Site Management LLC	Real Estate and Rental and Leasing	2
7	United Enterprise Fund Lp	Finance and Insurance	7
10	United Nations Federal Credit Union	Finance and Insurance	75
7	Uni-World Capital Lp	Finance and Insurance	7
5	US Office of the Comptroller of the Currency	Public Administration	80
6	Vaishali Diamond Corporation (manufacturer/importer)	Manufacturing (Jewelry - Diamonds)	5
5	Van Laack	Retail Trade (Clothing/Accessories)	2
9	Vander Bar	Accommodation and Food Services (Restaurant)	15
7	Vaneria & Spanos	Professional, Scientific, and Technical Services (Law)	4
1	VB Valuation Inc	Real Estate and Rental and Leasing	2
5	Verizon	Retail Trade (Electronics Store)	35
6	Wakefield Talabisco International	Administrative and Support and Waste Management and Remediation Services (Employment Services)	10
1	Wander Financial Services, LLC	Finance and Insurance	1
10	Ward & Olivo	Professional, Scientific, and Technical Services (Law)	20
1	Weekly Business News Corp	Information (Publishing Industries)	6
1	Weltman & Moskowitz	Professional, Scientific, and Technical Services (Law)	2
10	Whatley Drake & Kallas LLC	Professional, Scientific, and Technical Services (Law)	35
10	Widsom Tree Trust	Finance and Insurance	2
10	Williams Real Estate	Real Estate and Rental and Leasing	2
1	Winifred Atkinson LCSW and Haylie S Donovan LCSW	Health Care and Social Assistance (Offices of Other Health Practitioners)	3
1	Wolf Haldenstein Adler Freeman & Herz LLP	Professional, Scientific, and Technical Services (Law)	130
1	Wolfson, Gillian	Health Care and Social Assistance (Offices of Other Health Practitioners)	2
7	Women's Wire	Information (Other Telecommunications)	2
9	Workshop Women's Clothing	Retail Trade (Clothing/Accessories)	5

**Direct Business and Institutional Displacement  
in the Smaller Rezoning Area/Lower Density Alternative**

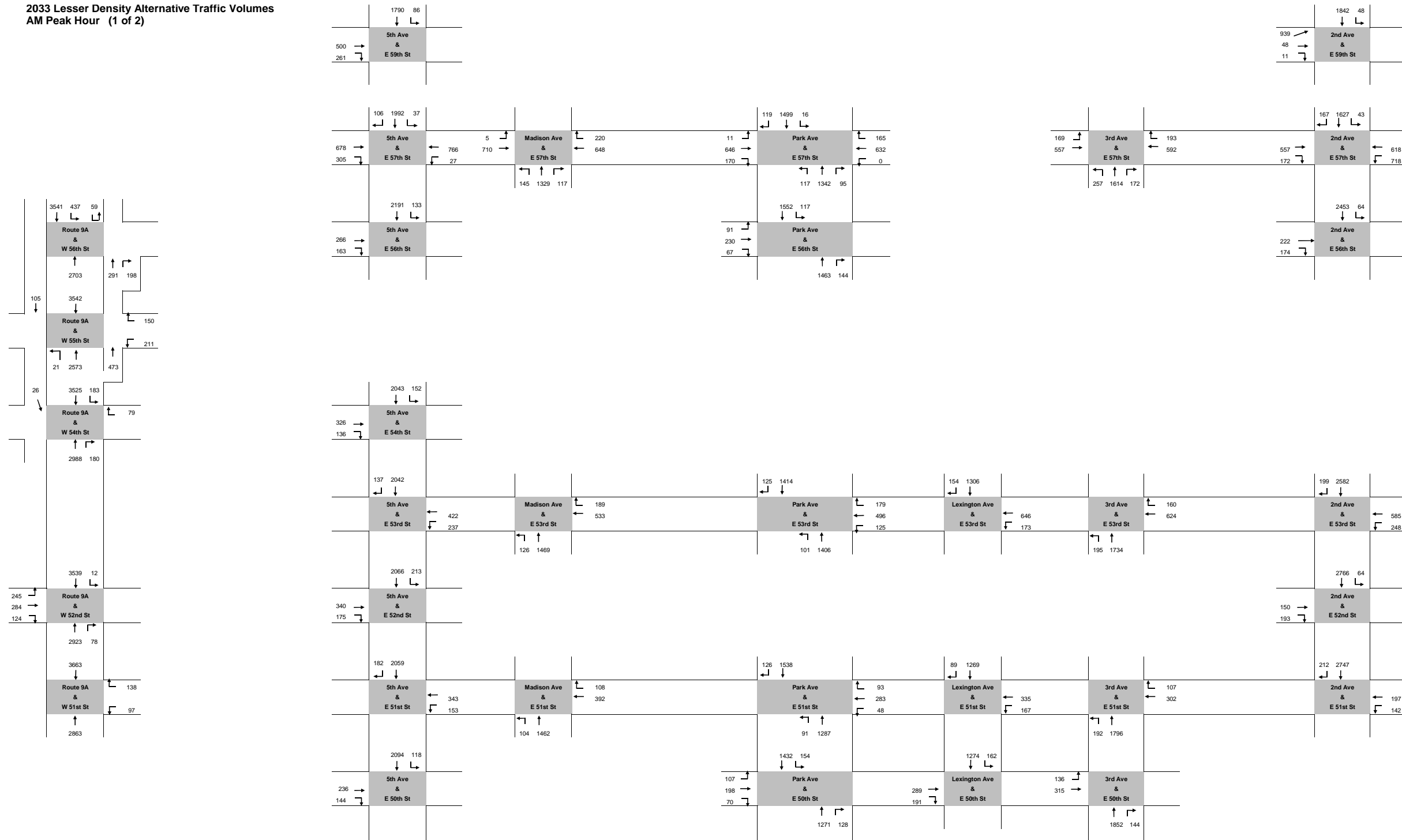
1	World First Financial Services, Inc.	Finance and Insurance	5
1	World Rehabilitation	Other Services (Religious, Grantmaking, Civic, Professional, and Similar Organizations)	2
1	World Reports Ltd	Finance and Insurance	2
1	World Research Group	Professional, Scientific, and Technical Services (Marketing)	20
7	Yale Club	Other Services (Religious, Grantmaking, Civic, Professional, and Similar Organizations)	200
6	Yoon & Kim LLP	Professional, Scientific, and Technical Services (Law)	2
1	Your City Office Ltd	Real Estate and Rental and Leasing	35
7	Ywca Retirement Fund	Other Services (Religious, Grantmaking, Civic, Professional, and Similar Organizations)	35

**Sources:** <sup>1</sup>PHA Surveys and Property Shark.

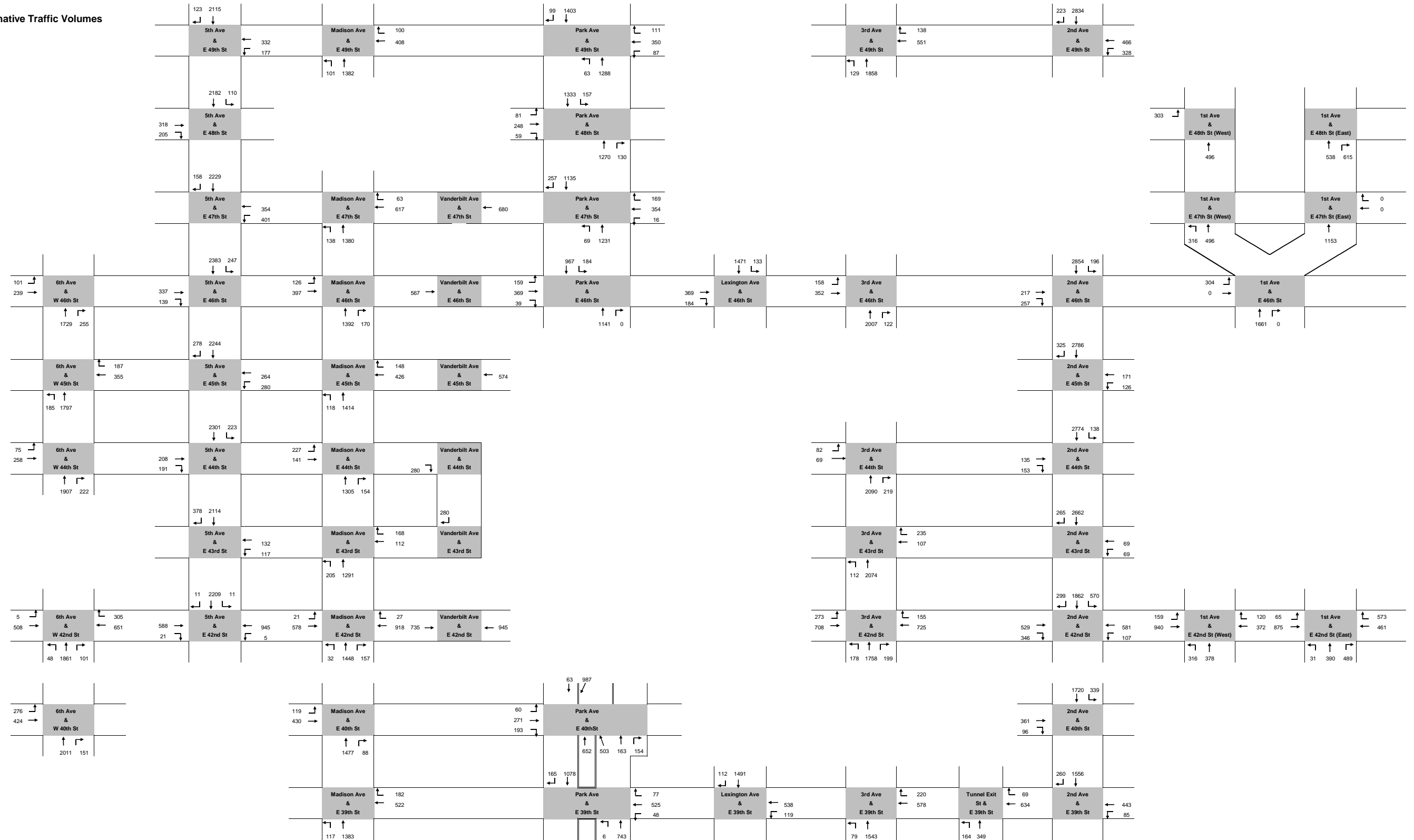
<sup>2</sup>Manta and Business/Institution Websites. For businesses and institutions with ranges of employment, the midpoint was used for "Estimated Employment."

**Notes:** Government agencies are highlighted as they are not the subject of direct displacement analysis under CEQR. It is assumed that government agencies will continue in operation with or without the Proposed Action.

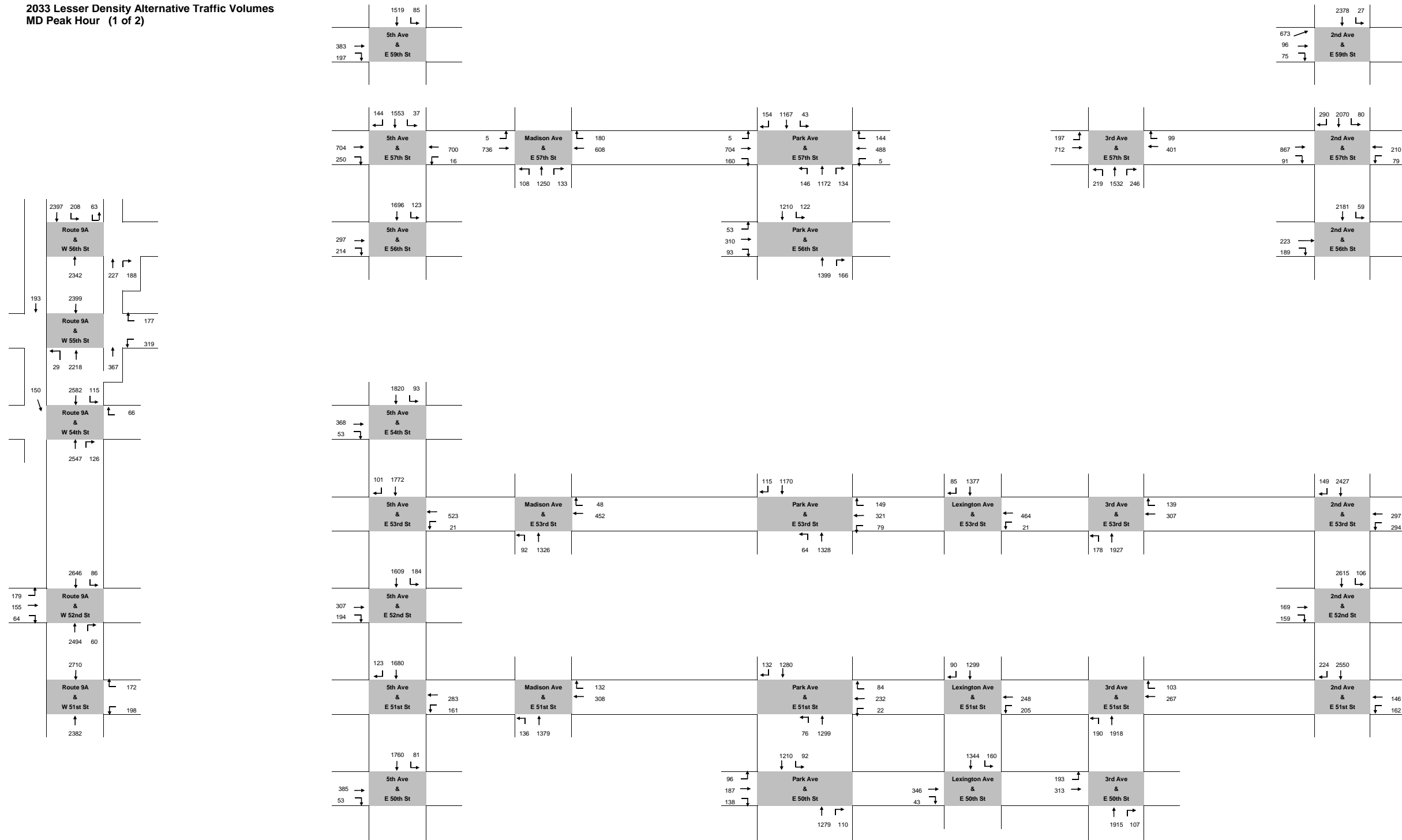
2033 Lesser Density Alternative Traffic Volumes  
AM Peak Hour (1 of 2)



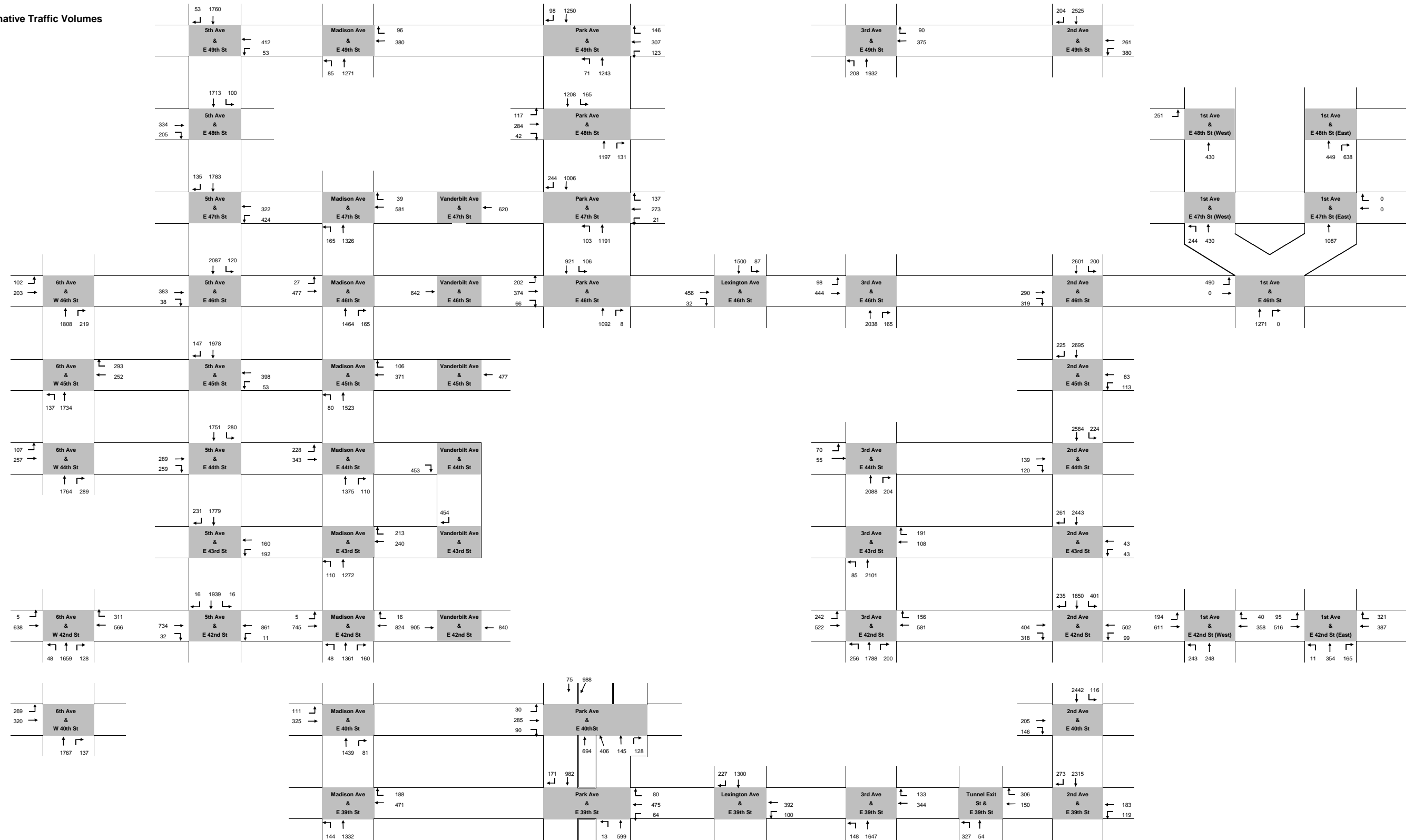
2033 Lesser Density Alternative Traffic Volumes  
AM Peak Hour (2 of 2)



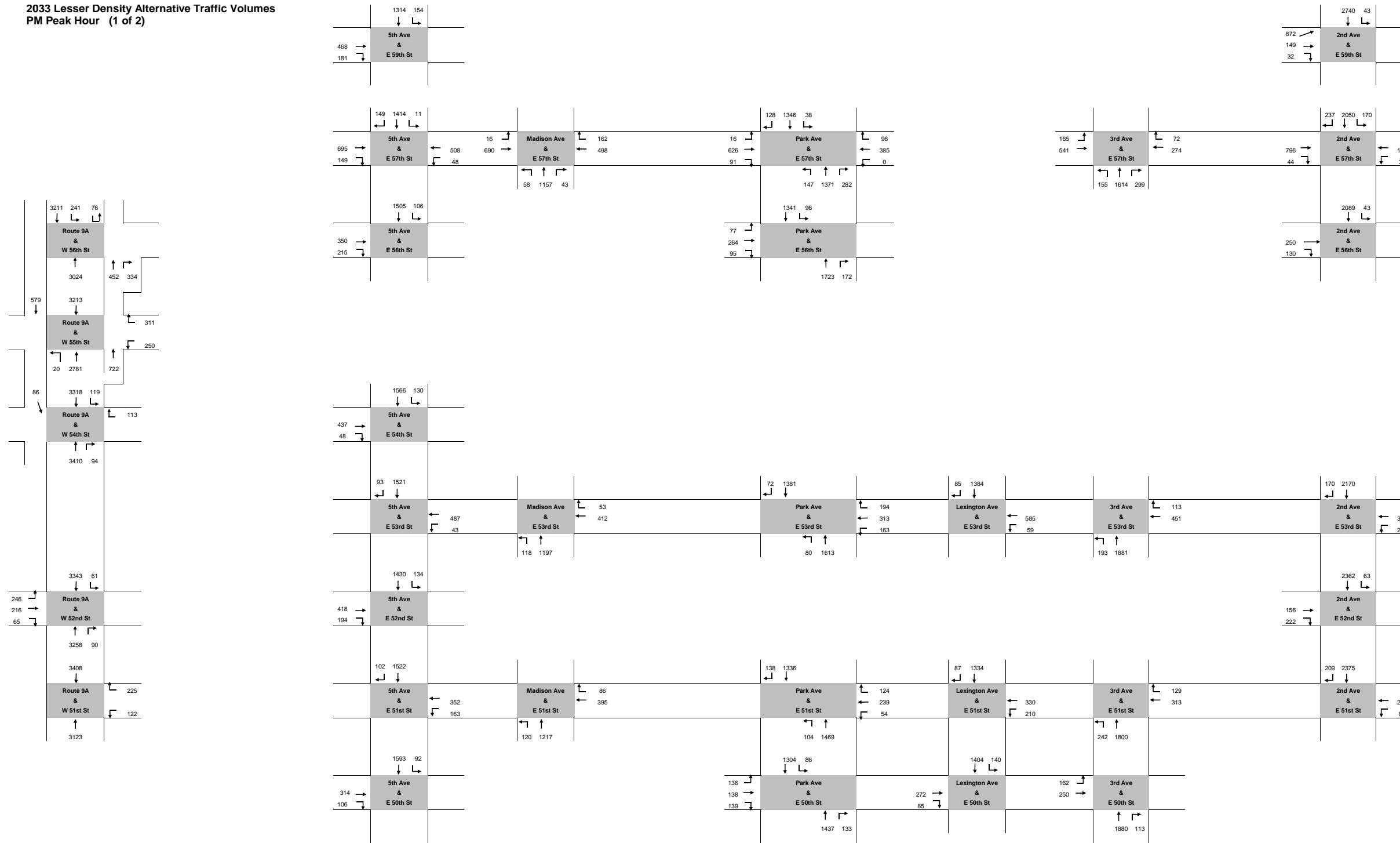
2033 Lesser Density Alternative Traffic Volumes  
MD Peak Hour (1 of 2)



2033 Lesser Density Alternative Traffic Volumes  
MD Peak Hour (2 of 2)

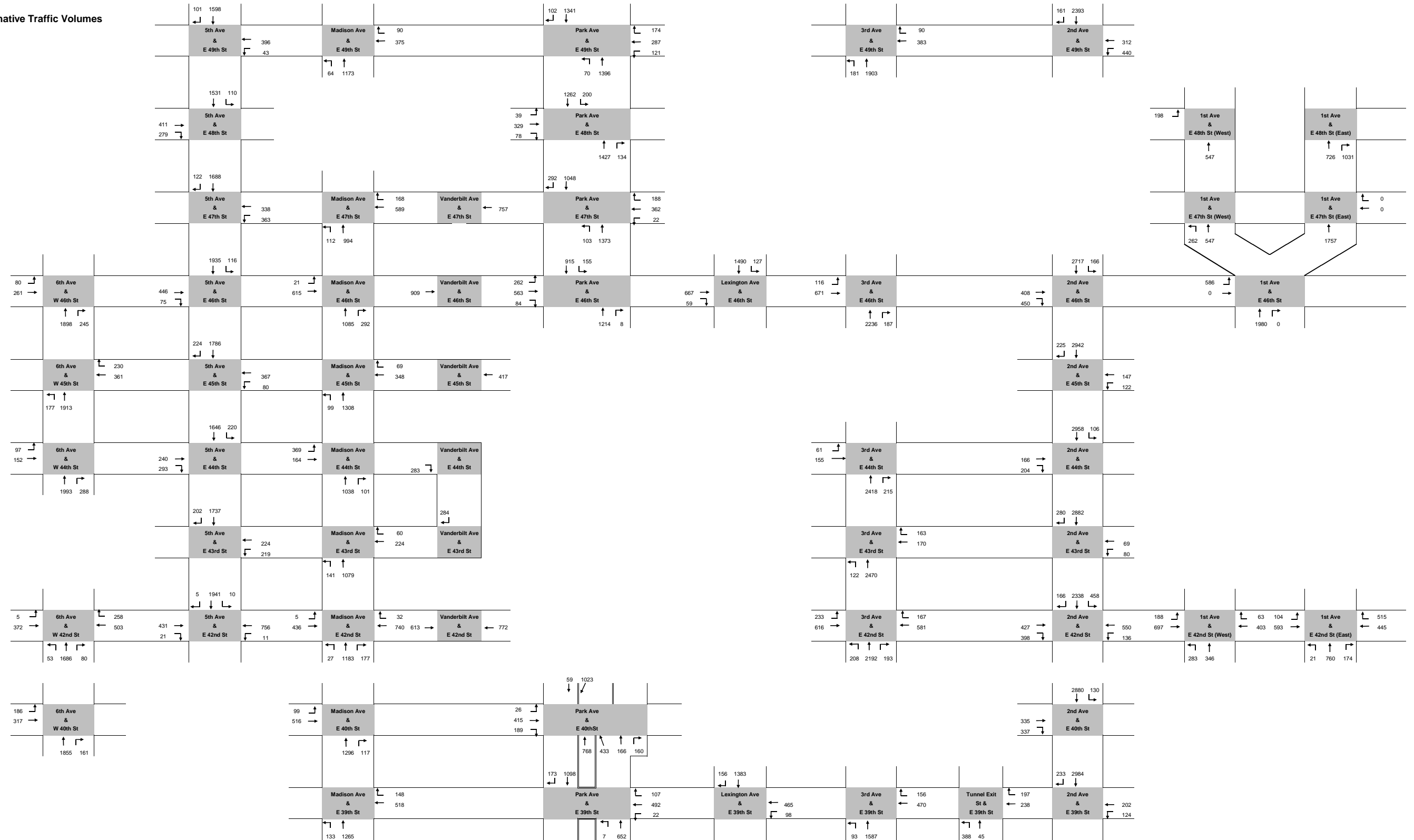


2033 Lesser Density Alternative Traffic Volumes  
PM Peak Hour (1 of 2)





2033 Lesser Density Alternative Traffic Volumes  
PM Peak Hour (2 of 2)



# East Midtown Rezoning and Related Actions FEIS

Level of Service Table - 2033 Lesser Density Alternative Conditions (AM Peak Hour)

Signalized Intersection	Approach	2033 No-Action				Lesser Density Alternative				Lesser Density Alternative w/ Mitigation				
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	
First Avenue @ East 42nd Street	EB	L (east)	0.61	47.2	D	L (east)	0.64	51.0	D	L (east)	0.60	45.3	D	
		T (east)	1.08	85.4	F	T (east)	1.08	84.1	F	T (east)	1.05	72.2	E	
		L (west)	0.99	95.5	F	L (west)	1.01	102.8	F	L (west)	0.97	88.3	F	
		T (west)	1.24	149.9	F	T (west)	1.24	147.8	F	T (west)	1.20	130.7	F	
	WB	TR (east)	0.85	37.3	D	TR (east)	0.87	39.0	D	TR (east)	0.84	35.8	D	
		R (east)	0.80	43.2	D	R (east)	0.81	44.4	D	R (east)	0.78	40.5	D	
		TR (west)	0.52	25.5	C	TR (west)	0.53	25.7	C	TR (west)	0.51	24.7	C	
		LT (east)	0.59	19.4	B	LT (east)	0.59	19.4	B	LT (east)	0.63	20.6	C	
	NB	R (east)	0.91	41.6	D	R (east)	0.91	41.6	D	R (east)	0.92	42.9	D	
		L (west)	0.53	18.6	B	L (west)	0.53	18.6	B	L (west)	0.55	19.8	B	
		T (west)	0.61	20.1	C	T (west)	0.61	20.1	C	T (west)	0.62	21.5	C	
		INTERSECTION		63.9	E		63.6	E		57.6	E			
	Second Avenue @ East 42nd Street	EB	T	0.58	26.2	C	T	0.58	26.2	C	T	0.58	26.2	C
			R	1.84	425.3	F	R	1.84	425.3	F	R	1.84	425.3	F
WB		LT	1.14	111.3	F	LT	1.19	129.5	F	LT	1.19	129.5	F	
		L	1.36	195.6	F	L	1.36	195.4	F	L	1.36	195.4	F	
SB		T	0.84	21.9	C	T	0.84	22.0	C	T	0.84	22.0	C	
		R	0.77	30.4	C	R	0.79	31.7	C	R	0.79	31.7	C	
INTERSECTION			93.0	F		95.9	F		95.9	F				
Second Avenue @ East 44th Street		EB	TR	1.07	105.0	F	TR	1.07	105.0	F				
	SB	LT	0.86	12.1	B	LT	0.86	12.2	B					
	INTERSECTION		20.5	C		20.5	C							
Second Avenue @ East 45th Street	WB	LT	1.10	113.8	F	LT	1.12	120.8	F	LT	1.08	105.3	F	
	SB	T	0.80	10.5	B	T	0.80	10.5	B	T	0.81	11.6	B	
	INTERSECTION		19.6	B		20.5	C		20.1	C				
Second Avenue @ East 49th Street	WB	L	1.14	126.4	F	L	1.17	137.4	F	L	1.11	114.4	F	
		T	0.53	30.0	C	T	0.60	31.4	C	T	0.58	30.1	C	
	SB	T	0.89	17.5	B	T	0.90	18.1	B	T	0.92	20.2	C	
		R	0.50	13.3	B	R	0.52	13.7	B	R	0.53	14.8	B	
	INTERSECTION		29.9	C		29.6	C		29.1	C				
Second Avenue @ East 59th Street	EB	TR (local)	0.18	25.8	C	TR (local)	0.18	25.8	C	TR (local)	0.18	25.9	C	
	SB	L (bridge)	1.13	80.3	F	L (bridge)	1.13	80.3	F	L (bridge)	1.13	80.3	F	
		LT (local)	0.52	6.0	A	LT (local)	0.53	6.0	A	LT (local)	0.53	6.0	A	
	INTERSECTION		67.1	E		68.2	E		66.4	E				
Third Avenue @ East 42nd Street	EB	L	1.14	137.5	F	L	1.14	137.5	F	L	1.14	137.5	F	
		T	1.19	127.9	F	T	1.19	127.9	F	T	1.19	127.9	F	
	WB	T	1.21	145.2	F	T	1.23	151.1	F	T	1.23	151.1	F	
		R	1.10	138.2	F	R	1.10	138.2	F	R	0.94	87.2	F	
	NB	LT	0.89	29.1	C	LT	0.90	30.0	C	LT	0.90	30.0	C	
		R	1.39	237.3	F	R	1.39	237.3	F	R	1.39	237.3	F	
	INTERSECTION		90.0	F		89.2	F		89.2	F				
	Third Avenue @ East 57th Street	EB	LT	0.93	43.0	D	LT	0.94	44.2	D				
WB		T	0.88	46.6	D	T	0.88	46.6	D					
		R	0.97	86.6	F	R	0.97	86.6	F					
NB		LTR	0.88	28.2	C	LTR	0.89	29.2	C					
		R	0.43	25.6	C	R	0.44	25.8	C					
INTERSECTION		37.5	D		38.2	D								
Lexington Avenue @ East 39th Street	WB	L	0.64	51.7	D	L	0.64	51.7	D	L	0.64	51.7	D	
		T	0.96	57.7	E	T	1.12	105.4	F	T	0.55	23.0	C	
	SB	T	0.85	21.0	C	T	0.86	21.3	C	T	0.86	21.3	C	
		R	0.46	17.8	B	R	0.47	18.3	B	R	0.32	13.1	B	
INTERSECTION		30.3	C		42.8	D		22.9	C					
Park Avenue @ West 39th Street	WB	LTR	1.18	127.1	F	LTR	1.34	192.5	F	LTR	0.69	25.9	C	
	NB	L††	0.00	41.0	D	L††	0.00	41.0	D	L††	0.00	41.0	D	
		LT	0.54	16.9	B	LT	0.54	16.9	B	LT	0.54	16.9	B	
	SB	TR	0.96	37.8	D	TR	0.96	38.5	D	TR	0.96	38.5	D	
INTERSECTION		51.6	D		70.2	E		29.3	C					
Park Avenue @ West 49th Street	WB	LT	0.90	50.0	D	LT	1.04	80.8	F	LT	1.04	80.8	F	
		R	0.34	21.5	C	R	0.36	22.1	C	R	0.36	22.1	C	
	NB	L††	0.00	37.5	D	L††	0.00	37.5	D	L††	0.00	37.5	D	
		T	0.96	39.2	D	T	0.97	41.8	D	T	0.97	41.8	D	
	SB	TR	0.81	24.0	C	TR	0.82	24.2	C	TR	0.82	24.2	C	
	INTERSECTION		33.0	C		38.3	D		38.3	D				
Park Avenue @ West 57th Street	EB	LT	0.83	34.7	C	LT	0.83	34.7	C	LT	0.85	37.4	D	
		R	0.52	27.1	C	R	0.52	27.1	C	R	0.53	28.4	C	
	WB	LT	0.66	27.7	C	LT	0.66	26.7	C	LT	0.68	27.9	C	
		R	0.54	28.3	C	R	0.54	28.3	C	R	0.56	29.8	C	
	NB	L††	0.00	38.8	D	L††	0.00	38.9	D	L††	0.00	39.0	D	
		TR	1.04	57.1	E	TR	1.06	63.3	E	TR	1.04	55.2	E	
	SB	L††	0.00	35.8	D	L††	0.00	35.8	D	L††	0.00	35.9	D	
		TR	0.82	22.3	C	TR	0.82	22.4	C	TR	0.80	21.1	C	
	INTERSECTION		35.8	D		37.7	D		35.4	D				

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Signalized Intersection	Approach	2033 No-Action				Lesser Density Alternative				Lesser Density Alternative w/ Mitigation			
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
Madison Avenue @ East 39th Street	WB	T	0.98	60.4	E	T	1.03	72.7	E	T	0.95	51.3	D
		R	0.81	71.9	E	R	1.19	167.7	F	R	0.88	71.1	E
	NB	LT	0.90	24.5	C	LT	0.93	27.4	C	L	0.42	21.4	C
		INTERSECTION			36.0	D			49.8	D			25.3
Madison Avenue @ East 40th Street	EB	L	0.62	52.2	D	L	0.74	61.3	E	L	0.68	54.6	D
		T	0.87	43.7	D	T	0.91	49.0	D	T	0.89	44.4	D
	NB	TR	0.90	24.5	C	TR	0.96	31.7	C	TR	0.98	37.1	D
		INTERSECTION			29.9	C			36.9	D			39.6
Madison Avenue @ East 42nd Street	EB	LT	0.75	29.9	C	LT	0.76	30.1	C	LT	0.76	30.1	C
		T	0.93	41.5	D	T	0.94	43.2	D	T	0.94	43.2	D
	WB	R	0.14	19.3	B	R	0.14	19.3	B	R	0.14	19.3	B
		NB	LT	1.17	104.4	F	LT	1.29	155.8	F	LT	0.88	22.1
	R		0.41	14.0	B	R	0.42	14.2	B	R	0.42	14.2	B
	INTERSECTION			65.5	E			91.5	F			29.3	C
Madison Avenue @ East 43rd Street	WB	T	0.46	23.4	C	T	0.23	19.6	B	T	0.25	21.1	C
		R	0.62	32.3	C	R	0.65	33.8	C	R	0.69	38.2	D
	NB	L	0.49	17.7	B	L	0.88	48.3	D	L	0.82	36.9	D
		T	1.02	48.5	D	T	1.07	63.8	E	T	1.03	47.2	D
INTERSECTION			41.6	D			56.4	E			43.5	D	
Madison Avenue @ East 44th Street	EB	LT	0.80	40.9	D	LT	1.26	166.7	F	L	0.91	62.2	E
		T				T				T	0.31	20.9	C
	NB	T	1.15	93.8	F	T	1.16	100.4	F	T	1.16	100.4	F
		R	1.02	107.6	F	R	1.69	372.5	F	R	1.69	372.5	F
INTERSECTION			85.8	F			136.7	F			112.5	F	
Madison Avenue @ East 45th Street	WB	TR	0.68	27.1	C	TR	0.72	28.6	C	TR	0.82	36.7	D
		NB	L	0.22	10.8	B	L	0.27	11.4	B	L	0.24	8.6
	T		1.05	57.8	E	T	1.15	93.0	F	T	1.05	53.7	D
INTERSECTION			46.7	D			70.9	E			46.6	D	
Madison Avenue @ East 46th Street	EB	LT	1.09	96.6	F	LT	1.24	153.9	F	LT	0.70	30.6	C
		T	1.17	103.4	F	T	1.26	141.7	F	T	1.16	94.6	F
	NB	R	0.41	14.3	B	R	0.52	17.3	B	R	0.47	12.7	B
		INTERSECTION			95.3	F			134.6	F			71.8
Madison Avenue @ East 47th Street	WB	T	0.80	35.7	D	T	1.26	159.6	F	T	0.66	26.8	C
		R	0.46	42.3	D	R	0.34	38.7	D	R	0.44	45.6	D
	NB	L	0.53	22.2	C	L	0.71	33.4	C	L	0.35	12.2	B
		T	1.15	94.7	F	T	1.22	124.7	F	T	1.14	88.9	F
INTERSECTION			76.0	E			126.3	F			65.4	E	
Madison Avenue @ East 49th Street	WB	TR	0.54	23.5	C	TR	0.58	24.5	C	TR	0.62	26.7	C
		NB	L	0.23	11.0	B	L	0.23	11.0	B	L	0.22	9.6
	T		1.08	66.7	E	T	1.12	83.8	F	T	1.08	63.8	E
INTERSECTION			53.2	D			65.0	E			51.6	D	
Madison Avenue @ East 51st Street	WB	T	0.78	34.2	C	T	0.79	34.8	C	T	0.79	34.8	C
		R	0.65	52.7	D	R	0.65	52.7	D	R	0.65	52.7	D
	NB	L	0.52	21.9	C	L	0.52	21.9	C	L	0.52	21.9	C
		T	1.24	134.1	F	T	1.29	154.7	F	T	1.29	154.7	F
INTERSECTION			104.6	F			120.0	F			120.0	F	
Madison Avenue @ East 53rd Street	WB	TR	0.83	33.7	C	TR	0.83	33.8	C	TR	0.89	39.8	D
		NB	L	0.23	10.7	B	L	0.23	10.7	B	L	0.22	9.3
	T		1.20	113.9	F	T	1.24	133.5	F	T	1.19	109.2	F
INTERSECTION			82.6	F			95.7	F			82.2	F	
Madison Avenue @ East 57th Street	EB	LT	0.80	31.5	C	LT	0.80	31.5	C	LT	0.82	33.7	C
		T	0.69	26.8	C	T	0.69	26.8	C	T	0.71	28.2	C
	WB	R	0.73	36.8	D	R	0.73	36.8	D	R	0.75	39.7	D
		NB	L	0.41	14.2	B	L	0.41	14.3	B	L	0.40	13.4
	T		1.01	43.9	D	T	1.05	55.7	E	T	1.03	47.6	D
	R	0.38	14.0	B	R	0.38	14.0	B	R	0.37	13.1	B	
INTERSECTION			34.5	C			39.6	D			37.1	D	
Fifth Avenue @ 42nd Street	EB	T	0.64	25.5	C	T	0.64	25.5	C	T	0.64	25.5	C
		R	0.17	20.6	C	R	0.17	20.6	C	R	0.17	20.6	C
	WB	LT	1.01	58.6	E	LT	1.02	62.1	E	LT	1.02	62.1	E
		SB	LT	1.16	96.3	F	LT	1.19	110.2	F	LT	1.19	110.2
R	0.05	9.3	A	R	0.05	9.3	A	R	0.05	9.3	A		
INTERSECTION			74.9	E			84.2	F			84.2	F	
Fifth Avenue @ 43rd Street	WB	L	0.60	30.5	C	L	0.61	31.1	C	L	0.61	31.1	C
		T	0.35	21.3	C	T	0.27	20.1	C	T	0.27	20.1	C
	SB	T	1.08	61.3	E	T	1.14	87.2	F	T	1.14	87.2	F
		R	1.36	204.7	F	R	1.71	358.8	F	R	1.71	358.8	F
INTERSECTION			73.1	E			117.2	F			117.2	F	
Fifth Avenue @ 44th Street	EB	T	0.33	21.1	C	T	0.46	23.7	C	T	0.46	23.7	C
		R	0.63	31.3	C	R	0.66	33.3	C	R	0.66	33.3	C
	SB	LT	1.27	143.4	F	LT	1.47	232.7	F	LT	1.47	232.7	F
INTERSECTION			128.3	F			204.8	F			204.8	F	

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Signalized Intersection	Approach	2033 No-Action				Lesser Density Alternative				Lesser Density Alternative w/ Mitigation			
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
Fifth Avenue @ 45th Street	WB	LT	0.62	25.3	C	LT	0.71	28.3	C	LT	0.81	36.3	D
	SB	T	1.11	74.4	E	T	1.20	114.1	F	T	1.11	69.4	E
		R	0.46	14.9	B	R	0.73	24.7	C	R	0.66	17.7	B
INTERSECTION				61.3	E			90.8	F			58.8	E
Fifth Avenue @ 46th Street	EB	TR	1.21	144.0	F	TR	1.29	175.2	F	TR	1.29	175.2	F
	SB	LT	1.27	140.9	F	LT	1.50	247.0	F	LT	1.50	247.0	F
		INTERSECTION				141.4	F			236.0	F		
Fifth Avenue @ 47th Street	WB	L	0.73	52.9	D	L	1.76	395.3	F	L	1.76	395.3	F
		T	0.65	26.3	C	T	0.70	28.3	C	T	0.70	28.3	C
	SB	T	1.23	128.4	F	T	1.31	162.0	F	T	1.31	162.0	F
		R	0.78	41.7	D	R	0.78	41.7	D	R	0.78	41.7	D
	INTERSECTION				106.6	F			170.6	F			170.6
Fifth Avenue @ 48th Street	EB	T	0.61	24.9	C	T	0.63	25.3	C	T	0.63	25.3	C
		R	1.13	142.2	F	R	1.13	142.2	F	R	1.13	142.2	F
	SB	LT	1.28	151.2	F	LT	1.36	185.8	F	LT	1.36	185.8	F
		INTERSECTION				135.7	F			164.5	F		
Fifth Avenue @ 49th Street	WB	LT	0.46	21.9	C	LT	0.51	22.7	C	LT	0.54	24.7	C
	SB	T	1.07	59.7	E	T	1.12	78.8	E	T	1.07	58.3	E
		R	0.37	13.5	B	R	0.37	13.5	B	R	0.35	11.7	B
INTERSECTION				50.8	D			65.5	E			50.0	D
Fifth Avenue @ 50th Street	EB	TR	0.44	21.8	C	TR	0.44	21.9	C	TR	0.47	23.7	C
	SB	LT	1.15	89.5	F	LT	1.20	110.4	F	LT	1.14	86.9	F
		INTERSECTION				79.3	E			97.4	F		
Fifth Avenue @ 51st Street	WB	L	0.67	49.5	D	L	0.69	50.3	D	L	0.69	50.3	D
		T	0.65	26.0	C	T	0.65	26.0	C	T	0.65	26.0	C
	SB	T	1.15	94.6	F	T	1.20	116.5	F	T	1.20	116.5	F
		R	0.94	67.5	E	R	0.94	67.5	E	R	0.94	67.5	E
	INTERSECTION				81.3	F			98.2	F			98.2
Fifth Avenue @ 52nd Street	EB	T	0.57	23.1	C	T	0.58	23.2	C	T	0.58	23.2	C
		R	0.78	58.4	E	R	0.78	58.4	E	R	0.78	58.4	E
	SB	LT	1.35	179.8	F	LT	1.40	202.7	F	LT	1.40	202.7	F
		INTERSECTION				152.4	F			171.8	F		
Fifth Avenue @ 53rd Street	WB	LT	0.74	28.8	C	LT	0.74	28.8	C	LT	0.79	32.4	C
	SB	T	1.04	48.6	D	T	1.09	65.0	E	T	1.04	46.7	D
		R	0.32	12.2	B	R	0.32	12.2	B	R	0.31	10.6	B
	INTERSECTION				42.0	D			54.0	D			41.6
Fifth Avenue @ 54th Street	EB	TR	0.54	23.6	C	TR	0.54	23.6	C	TR	0.58	25.7	C
	SB	LT	1.15	92.4	F	LT	1.20	112.2	F	LT	1.15	88.7	F
		INTERSECTION				80.1	F			96.8	F		
Fifth Avenue @ 56th Street	EB	T	0.60	27.7	C	T	0.60	27.7	C	T	0.64	30.6	C
		R	0.51	26.2	C	R	0.51	26.2	C	R	0.55	29.3	C
	SB	LT	1.22	122.4	F	LT	1.27	141.5	F	LT	1.21	116.0	F
		INTERSECTION				107.1	F			123.7	F		
Fifth Avenue @ 57th Street	EB	T	0.72	27.7	C	T	0.72	27.7	C	T	0.72	27.7	C
		R	0.96	68.0	E	R	0.96	68.0	E	R	0.96	68.0	E
	WB	LT	0.92	42.4	D	LT	0.92	42.7	D	LT	0.92	42.7	D
		SB	LT	1.02	41.3	D	LT	1.06	54.5	D	LT	1.06	54.5
	R		0.28	11.9	B	R	0.28	11.9	B	R	0.28	11.9	B
INTERSECTION				40.4	D			47.3	D			47.3	D
Fifth Avenue @ 59th Street	EB	T	0.45	19.9	B	T	0.45	19.9	B	T	0.45	19.9	B
		R	1.12	131.9	F	R	1.12	131.9	F	R	1.12	131.9	F
	SB	LT	1.61	301.4	F	LT	1.69	335.3	F	LT	1.69	335.3	F
		INTERSECTION				229.0	F			255.4	F		
Sixth Avenue @ West 40th Street	EB	L	0.80	42.4	D	L	0.85	47.2	D	L	0.85	47.2	O
		T	0.77	34.8	C	T	0.86	42.4	D	T	0.86	42.4	O
	NB	TR	1.11	79.7	E	TR	1.15	96.3	F	TR	1.15	96.3	O
		INTERSECTION				70.0	E			83.6	F		
Sixth Avenue @ West 42nd Street	EB	LT	0.68	30.0	C	LT	0.68	30.0	C	LT	0.64	27.3	C
		T	0.80	34.2	C	T	0.80	34.2	C	T	0.75	30.5	C
	WB	R	1.26	174.0	F	R	1.31	195.2	F	R	1.23	160.8	F
		LTR	0.64	10.8	B	LTR	0.64	10.9	B	LTR	0.67	12.7	B
	INTERSECTION				32.0	C			34.2	C			31.2
Sixth Avenue @ West 45th Street	WB	T	0.76	34.8	C	T	0.77	35.5	D	T	0.79	36.6	D
		R	0.59	29.7	C	R	0.64	32.0	C	R	0.63	31.4	C
	NB	LT	0.71	14.8	B	LT	0.71	14.9	B	LT	0.71	14.9	B
		INTERSECTION				18.6	B			19.1	B		
Route 9A @ West 56th Street	NB	T	1.09	88.6	F	T	1.10	91.7	F	T	1.08	84.8	F
		L	0.37	27.1	C	L	0.37	27.1	C	L	0.38	27.8	C
	SB	T	0.67	1.2	A	T	0.68	1.3	A	T	0.68	1.3	A
		INTERSECTION				38.3	D			39.4	D		

Notes:

††To mimic actual conditions for NB/SB left turning vehicles on Park Avenue, the sum of two delays were accounted for: (1) delay from making the left turn; and (2) delay from waiting at the red light after the left turn. Shading denotes locations with no significant adverse impacts.

Locations with no significant adverse impacts under the proposed action were not analyzed for Lower Density Alternative conditions.

Source: Parsons Brinckerhoff, Inc. 2013

East Midtown Rezoning and Related Actions FEIS

Level of Service Table - 2033 Lesser Density Alternative Conditions (Midday Peak Hour)

Signalized Intersection	Approach	2033 No-Action				Lesser Density Alternative				Lesser Density Alternative w/ Mitigation			
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
First Avenue @ East 42nd Street	EB	LT (east)	0.96	54.8	D	LT (east)	0.97	57.0	E	LT (east)	0.97	57.0	E
		L (west)	0.93	72.7	E	L (west)	0.93	73.8	E	L (west)	0.93	73.8	E
		T (west)	0.64	28.0	C	T (west)	0.65	28.2	C	T (west)	0.65	28.2	C
	WB	TR (east)	0.52	25.5	C	TR (east)	0.52	25.6	C	TR (east)	0.52	25.6	C
		R (east)	0.58	30.5	C	R (east)	0.59	30.8	C	R (east)	0.59	30.8	C
		TR (west)	0.40	23.5	C	TR (west)	0.40	23.6	C	TR (west)	0.40	23.6	C
	NB	LT (east)	0.51	17.6	B	LT (east)	0.51	17.6	B	LT (east)	0.51	17.6	B
		R (east)	0.29	14.7	B	R (east)	0.29	14.7	B	R (east)	0.29	14.6	B
		L (west)	0.37	15.6	B	L (west)	0.37	15.6	B	L (west)	0.37	15.6	B
		T (west)	0.40	16.2	B	T (west)	0.40	16.2	B	T (west)	0.40	16.2	B
INTERSECTION			31.0	C			28.7	C			28.7	C	
First Avenue @ East 46th Street	EB	L	1.00	67.4	E	L	1.07	87.9	F	L	1.00	67.2	E
	NB	T	0.64	14.3	B	T	0.65	14.4	B	T	0.68	16.4	B
	INTERSECTION			28.4	C			34.8	C			30.5	C
Second Avenue @ East 42nd Street	EB	T	0.41	23.1	C	T	0.41	23.1	C	T	0.41	23.1	C
		R	1.22	155.5	F	R	1.23	159.2	F	R	1.23	159.2	F
	WB	LT	0.88	42.3	D	LT	0.89	43.1	D	LT	0.89	43.1	D
	SB	L	0.90	41.6	D	L	0.92	45.8	D	L	0.92	45.8	D
		TR	1.01	41.2	D	TR	1.02	43.7	D	TR	1.02	43.7	D
INTERSECTION			49.1	D			51.3	D			51.3	D	
Second Avenue @ East 44th Street	EB	TR	0.95	72.1	E	TR	0.95	72.1	E				
	SB	LT	0.82	11.0	B	LT	0.82	11.1	B				
	INTERSECTION			16.1	B			16.2	B				
Second Avenue @ East 46th Street	EB	T	0.57	31.6	C	T	0.63	33.4	C	TR	0.57	29.7	C
		R	1.17	141.4	F	R	1.28	183.5	F	O	1.16	136.3	F
	SB	LT	0.80	10.5	B	LT	0.79	10.6	B	LT	0.78	11.5	B
	INTERSECTION			23.8	C			28.3	C			24.4	C
Second Avenue @ East 49th Street	WB	LT	1.03	77.0	E	LT	1.06	86.1	F	LT	1.02	71.6	E
	SB	TR	0.87	16.7	B	TR	0.89	17.2	B	TR	0.90	19.1	B
	INTERSECTION			28.0	C			30.3	C			29.1	C
Second Avenue @ East 57th Street	EB	T	0.79	29.6	C	T	0.81	30.2	C				
		R	0.54	41.5	D	R	0.54	41.5	D				
	WB	DefL	0.27	32.0	C	DefL	0.27	32.0	C				
	SB	T	0.40	21.3	C	T	0.40	21.3	C				
		L	0.24	16.9	B	L	0.24	16.9	B				
		TR	1.01	44.8	D	TR	1.02	48.0	D				
INTERSECTION			38.9	D			41.1	D					
Second Avenue @ East 59th Street	EB	TR (local)	0.46	26.8	C	TR (local)	0.46	26.8	C	TR (local)	0.48	27.4	C
	SB	L (bridge)	1.08	68.2	E	L (bridge)	1.08	68.2	E	L (bridge)	1.08	68.2	E
		LT (local)	0.69	11.5	B	LT (local)	0.70	11.6	B	LT (local)	0.70	11.6	B
	INTERSECTION			27.7	C			27.7	C			27.6	C
Third Avenue @ East 42nd Street	EB	L	1.19	158.7	F	L	1.19	158.7	F				
		T	0.87	38.7	D	T	0.87	38.7	D				
	WB	T	0.95	59.8	E	T	0.96	61.0	E				
		R	1.08	130.1	F	R	1.08	130.1	F				
	NB	LT	0.92	31.4	C	LT	0.93	32.6	C				
		R	0.73	36.0	D	R	0.73	36.0	D				
INTERSECTION			49.5	D			50.2	D					
Third Avenue @ East 44th Street	EB	LT	0.32	21.3	C	LT	0.32	21.3	C				
	NB	T	0.68	14.2	B	T	0.69	14.4	B				
		R	0.92	62.7	E	R	0.92	62.7	E				
INTERSECTION			18.8	B			18.8	B					
Third Avenue @ East 57th Street	EB	LT	1.06	71.4	E	LT	1.06	74.3	E				
	WB	T	0.59	31.6	C	T	0.59	31.6	C				
		R	0.47	33.8	C	R	0.47	33.8	C				
	NB	LTR	0.87	29.1	C	LTR	0.89	30.0	C				
		R	0.89	70.1	E	R	0.91	73.8	E				
INTERSECTION			42.5	D			43.9	D					
Lexington Avenue @ East 51st Street	WB	L	0.94	83.0	F	L	0.94	83.0	F				
		T	0.49	22.8	C	T	0.49	22.8	C				
	SB	T	0.73	17.7	B	T	0.75	18.1	B				
		R	0.46	19.8	B	R	0.46	19.8	B				
INTERSECTION			25.9	C			26.0	C					
Park Avenue @ West 39th Street	WB	LTR	1.30	177.5	F	LTR	1.35	196.1	F	LTR	0.70	27.3	C
	NB	L††	0.00	39.6	D	L††	0.00	39.6	D	L††	0.00	39.6	D
		LT	0.44	15.4	B	LT	0.44	15.4	B	LT	0.44	15.4	B
	SB	TR	0.88	28.4	C	TR	0.90	30.0	C	TR	0.90	30.0	C
INTERSECTION			62.9	E			69.2	E			25.6	C	

East Midtown Rezoning and Related Actions FEIS

Signalized Intersection	Approach	2033 No-Action				Lesser Density Alternative				Lesser Density Alternative w/ Mitigation			
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
Park Avenue @ West 40th Street	EB	LT	0.68	32.4	C	LT	0.72	34.5	C	LT	0.74	36.8	D
		R	0.31	24.1	C	R	0.36	25.3	C	R	0.38	26.5	C
	NB	T (Tunnel Exit)	0.88	31.8	C	T (Tunnel Exit)	0.88	31.8	C	T (Tunnel Exit)	0.87	29.2	C
		T (SR onto Viaduct)	0.50	15.4	B	T (SR onto Viaduct)	0.50	15.4	B	T (SR onto Viaduct)	0.49	14.6	B
	SB	TR	0.44	15.0	B	TR	0.44	15.0	B	TR	0.43	14.2	B
		T	0.08	10.4	B	T	0.08	10.4	B	T	0.08	9.9	A
	INTERSECTION			47.7	D			49.7	D			45.7	D
Park Avenue @ West 49th Street	WB	LT	0.96	59.5	E	LT	1.03	77.1	E	LT	1.03	77.1	E
		R	0.42	23.2	C	R	0.45	24.1	C	R	0.45	24.1	C
	NB	L↑↑	0.00	37.9	D	L↑↑	0.00	37.9	D	L↑↑	0.00	37.9	D
		T	0.91	32.5	C	T	0.94	35.8	D	T	0.94	35.8	D
	SB	TR	0.73	21.2	C	TR	0.73	21.3	C	TR	0.73	21.3	C
	INTERSECTION			30.9	C			34.8	C			34.8	C
Madison Avenue @ East 39th Street	WB	T	0.85	39.7	D	T	0.88	42.4	D	T	0.88	42.0	D
		R	1.05	121.9	F	R	1.16	156.2	F	R	1.04	114.8	F
	NB	LT	0.86	21.6	C	LT	0.87	22.3	C	L	0.54	24.0	C
										T	0.72	17.4	B
	INTERSECTION			33.8	C			38.5	D			31.8	C
Madison Avenue @ East 42nd Street	EB	LT	0.85	35.0	C	LT	0.85	35.0	C	LT	0.85	35.1	D
	WB	T	0.84	33.2	C	T	0.84	33.5	C	T	0.84	33.5	C
		R	0.08	18.0	B	R	0.04	17.2	B	R	0.08	18.0	B
	NB	LT	1.10	74.5	E	LT	1.14	89.9	F	LT	0.78	17.2	B
		R	0.41	13.9	B	R	0.42	14.3	B	R	0.42	14.3	B
	INTERSECTION			50.7	D			58.0	E			25.6	C
Madison Avenue @ East 44th Street	EB	LT	0.97	64.5	E	LT	1.59	307.1	F	L	0.87	55.6	E
										T	0.79	38.4	D
	NB	T	1.08	65.5	E	T	1.12	82.8	F	T	1.07	62.8	E
		R	0.83	51.9	D	R	0.92	77.1	E	R	0.83	53.9	D
	INTERSECTION			64.3	E			144.8	F			57.5	E
Madison Avenue @ East 45th Street	WB	TR	0.53	23.4	C	TR	0.57	24.2	C	TR	0.57	24.2	C
		L	0.18	10.4	B	L	0.20	10.6	B	L	0.20	10.6	B
	NB	T	1.02	47.0	D	T	1.16	99.8	F	T	1.16	99.8	F
		INTERSECTION			39.8	D			79.0	E			79.0
Madison Avenue @ East 46th Street	EB	LT	0.91	48.8	D	LT	1.04	79.2	E	LT	0.57	25.9	C
										T	1.14	88.0	F
	NB	T	1.14	90.5	F	T	1.22	122.4	F	T	1.14	88.0	F
		R	0.20	10.9	B	R	0.27	11.1	B	R	0.26	9.0	A
	INTERSECTION			77.9	E			103.6	F			67.2	E
Madison Avenue @ East 47th Street	WB	T	0.92	48.7	D	T	1.20	135.2	F	T	0.58	22.8	C
		R	0.22	35.8	D	R	0.22	35.8	D	R	0.22	35.8	D
	NB	L	0.52	24.9	C	L	1.46	266.9	F	L	0.53	19.0	B
		T	1.06	62.1	E	T	1.06	62.6	E	T	1.06	62.6	E
	INTERSECTION			56.9	E			98.1	F			47.7	D
	Madison Avenue @ East 51st Street	WB	T	0.61	26.1	C	T	0.61	26.2	C	T	0.61	26.2
R			0.74	59.5	E	R	0.74	59.5	E	R	0.74	59.5	E
NB		L	0.71	34.1	C	L	0.71	34.1	C	L	0.71	34.1	C
		T	1.08	66.5	E	T	1.09	73.4	E	T	1.09	73.4	E
INTERSECTION				57.3	E			62.3	E			62.3	E
Madison Avenue @ East 53rd Street	WB	TR	0.52	22.9	C	TR	0.52	22.9	C				
		L	0.20	10.5	B	L	0.20	10.5	B				
	NB	T	1.00	41.0	D	T	1.02	45.4	D				
		INTERSECTION			34.7	C			37.8	D			
Fifth Avenue @ 43rd Street	WB	L	0.62	30.4	C	L	0.60	29.4	C	L	0.64	33.2	C
		T	0.29	20.3	C	T	0.33	21.0	C	T	0.35	22.7	C
	SB	T	0.88	21.4	C	T	0.91	23.2	C	T	0.87	18.9	B
		R	1.33	199.2	F	R	1.51	277.7	F	R	1.34	202.1	F
	INTERSECTION			39.8	D			48.4	D			38.2	D
Fifth Avenue @ 44th Street	EB	T	0.55	25.5	C	T	0.59	26.7	C	T	0.59	26.7	C
		R	0.90	56.3	E	R	0.93	62.6	E	R	0.93	62.6	E
	SB	LT	1.00	37.0	D	LT	1.20	114.3	F	LT	1.20	114.3	F
		INTERSECTION			37.9	D			99.3	F			99.3
Fifth Avenue @ 46th Street	EB	TR	0.86	43.4	D	TR	0.95	58.2	E	TR	0.95	58.2	E
	SB	LT	1.04	49.7	D	LT	1.19	109.8	F	LT	1.19	109.8	F
	INTERSECTION			48.7	D			101.5	F			101.5	F
Fifth Avenue @ 47th Street	WB	L	0.93	79.0	E	L	1.82	422.3	F	L	1.82	422.3	F
		T	0.61	24.8	C	T	0.65	26.3	C	T	0.65	26.3	C
	SB	T	0.98	36.6	D	T	1.02	45.4	D	T	1.02	45.4	D
		R	1.16	152.5	F	R	1.16	152.5	F	R	1.16	152.5	F
	INTERSECTION			45.6	D			108.5	F			108.5	F

East Midtown Rezoning and Related Actions FEIS

Signalized Intersection	Approach	2033 No-Action				Lesser Density Alternative				Lesser Density Alternative w/ Mitigation			
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
Fifth Avenue @ 48th Street	EB	T	0.57	23.5	C	T	0.64	25.6	C	T	0.64	25.6	C
		R	0.91	80.3	F	R	1.05	115.2	F	R	1.05	115.2	F
	SB	LT	1.04	51.9	D	LT	1.07	62.1	E	LT	1.07	62.1	E
		INTERSECTION			50.4	D			61.5	E			61.5
Fifth Avenue @ 52nd Street	EB	T	0.52	21.8	C	T	0.52	21.8	C	T	0.54	22.8	C
		R	0.86	67.2	E	R	0.86	67.2	E	R	0.86	67.2	E
	SB	LT	1.09	70.1	E	LT	1.11	80.1	F	LT	1.09	68.4	E
		INTERSECTION			63.3	E			71.2	E			62.2
Fifth Avenue @ 59th Street	EB	T	0.34	18.3	B	T	0.34	18.3	B	T	0.34	18.3	B
		R	0.86	66.5	E	R	0.86	66.5	E	R	0.86	66.5	E
	SB	LT	1.34	178.8	F	LT	1.38	194.8	F	LT	1.38	194.8	F
		INTERSECTION			139.8	F			152.3	F			152.3
Sixth Avenue @ West 40th Street	EB	LT	1.20	136.7	F	LT	1.26	158.0	F	L	0.74	35.6	D
										T	0.64	28.2	C
	NB	TR	0.95	32.1	C	TR	0.96	33.8	C	TR	0.96	33.8	C
		INTERSECTION			56.2	E			63.1	E			33.3
Sixth Avenue @ West 42nd Street	EB	LT	0.82	36.2	D	LT	0.82	36.2	D	LT	0.80	33.8	C
		T	0.66	28.8	C	T	0.66	28.8	C	T	0.64	27.5	C
	WB	R	1.44	249.0	F	R	1.45	256.5	F	R	1.39	229.1	F
		LTR	0.56	9.9	A	LTR	0.56	10.0	A	LTR	0.57	10.8	B
INTERSECTION			40.2	D			41.0	D			38.2	D	
Sixth Avenue @ West 45th Street	WB	T	0.51	24.5	C	T	0.52	24.8	C	T	0.47	21.1	C
		R	0.86	51.8	D	R	1.08	102.7	F	R	0.92	55.8	E
	NB	LT	0.62	13.4	B	LT	0.62	13.5	B	LT	0.69	17.5	B
		INTERSECTION			18.4	B			25.5	C			22.5

Notes:

††To mimic actual conditions for NB/SB left turning vehicles on Park Avenue, the sum of two delays were accounted for: (1) delay from making the left turn; and (2) delay from waiting at the red light after the left turn.

Shading denotes locations with no significant adverse impacts.

Locations with no significant adverse impacts under the proposed action were not analyzed for Lower Density Alternative conditions.

Source: Parsons Brinckerhoff, Inc. 2013

East Midtown Rezoning and Related Actions FEIS

Level of Service Table - 2033 Lesser Density Alternative Conditions (PM Peak Hour)

Signalized Intersection	Approach	2033 No-Action				Lesser Density Alternative				Lesser Density Alternative w/ Mitigation						
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS			
First Avenue @ East 42nd Street	EB	LT (east)	1.29	172.5	F	LT (east)	1.34	193.5	F	LT (east)	1.34	192.4	F			
		L (west)	1.08	120.9	F	L (west)	1.08	120.9	F	L (west)	1.03	103.2	F			
		T (west)	0.67	28.5	C	T (west)	0.70	29.3	C	T (west)	0.67	28.0	C			
	WB	TR (east)	0.86	38.7	D	TR (east)	0.86	38.7	D	TR (east)	0.86	38.3	D			
		R (east)	0.90	59.7	E	R (east)	0.90	60.3	E	R (east)	0.89	57.5	E			
		TR (west)	0.49	25.0	C	TR (west)	0.49	25.0	C	TR (west)	0.47	24.0	C			
	NB	LT (east)	1.04	63.2	E	LT (east)	1.04	62.9	E	LT (east)	1.04	62.9	E			
		R (east)	0.34	15.5	B	R (east)	0.34	15.5	B	R (east)	0.33	15.3	B			
		L (west)	0.48	17.5	B	L (west)	0.48	17.5	B	L (west)	0.49	18.6	B			
				0.55	18.6	B			0.54	18.6	B			0.56	19.7	B
		INTERSECTION			60.5	E			64.3	E			63.1	E		
First Avenue @ East 46th Street	EB	L	0.95	55.1	E	L	1.13	107.9	F	L	0.58	23.9	C			
	NB	T	1.00	35.9	D	T	1.00	36.2	D	T	1.00	36.2	D			
	INTERSECTION			39.7	D			52.6	D			33.4	C			
First Avenue @ East 47th Street	WB	TR (east)	0.00	16.8	B	TR (east)	0.00	16.8	B	TR (east)	0.00	18.0	B			
		TR (west)	0.00	16.8	B	TR (west)	0.00	16.8	B	TR (west)	0.00	18.0	B			
	NB	L (west)	0.36	11.9	B	L (west)	0.37	11.9	B	L (west)	0.35	10.4	B			
		T (west)	0.74	20.0	B	T (west)	0.74	20.1	C	T (west)	0.71	17.2	B			
		TR (east)	1.19	109.5	F	TR (east)	1.25	137.1	F	TR (east)	1.20	112.2	F			
	INTERSECTION			79.5	E			99.4	F			81.6	F			
First Avenue @ East 48th Street	NB	T	0.82	23.0	C	T	0.83	23.2	C	T	0.83	23.2	C			
		R	1.32	171.5	F	R	1.44	225.4	F	R	1.44	225.4	F			
	INTERSECTION			107.1	F			141.8	F			141.8	F			
Second Avenue @ East 42nd Street	EB	T	0.44	23.6	C	T	0.44	23.6	C	T	0.44	23.6	C			
		R	1.95	472.5	F	R	1.95	472.5	F	R	1.95	472.5	F			
	WB	LT	1.13	105.7	F	LT	1.12	104.0	F	LT	1.12	104.0	F			
		L	1.04	73.3	E	L	1.12	100.9	F	L	1.12	100.9	F			
	SB	T	0.97	31.6	C	T	0.98	33.3	C	T	0.98	33.3	C			
		R	0.42	16.7	B	R	0.45	17.6	B	R	0.45	17.6	B			
	INTERSECTION			85.6	F			88.6	F			88.6	F			
Second Avenue @ East 44th Street	EB	TR	1.33	200.1	F	TR	1.33	200.1	F							
	SB	LT	0.82	10.9	B	LT	0.83	11.2	B							
	INTERSECTION			31.6	C			31.6	C							
Second Avenue @ East 46th Street	EB	T	0.71	36.8	D	T	0.89	51.3	D	T	0.80	39.3	D			
		R	1.23	157.7	F	R	1.37	216.8	F	R	1.23	154.1	F			
	SB	LT	0.80	10.5	B	LT	0.81	10.7	B	LT	0.86	14.4	B			
		INTERSECTION			29.0	C			39.3	D			33.4	C		
Second Avenue @ East 49th Street	WB	L	1.18	135.9	F	L	1.20	146.0	F	L	1.16	127.4	F			
		T	0.41	28.0	C	T	0.42	28.1	C	T	0.40	27.2	C			
	SB	T	0.71	12.5	B	T	0.72	12.6	B	T	0.73	13.6	B			
		R	0.35	10.8	B	R	0.38	11.2	B	R	0.39	12.1	B			
		INTERSECTION			30.2	C			31.7	C			29.9	C		
Second Avenue @ East 59th Street	EB	TR (local)	0.42	25.5	C	TR (local)	0.42	25.5	C	TR (local)	0.44	26.0	C			
	SB	L (bridge)	1.24	130.5	F	L (bridge)	1.24	130.5	F	L (bridge)	1.24	130.5	F			
		LT (local)	0.77	12.6	B	LT (local)	0.78	12.8	B	LT (local)	0.78	12.8	B			
	INTERSECTION			45.1	D			45.1	D			44.7	D			
Third Avenue @ East 42nd Street	EB	L	1.20	163.9	F	L	1.20	163.9	F							
		T	1.00	60.9	E	T	1.00	60.9	E							
	WB	T	0.95	60.1	E	T	0.96	61.0	E							
		R	1.05	119.1	F	R	1.05	119.1	F							
	NB	LT	1.02	47.7	D	LT	1.03	50.3	D							
		R	0.98	82.4	F	R	0.98	82.4	F							
		INTERSECTION			62.3	E			63.9	E						
Park Avenue @ West 39th Street	WB	LTR	1.18	124.6	F	LTR	1.20	134.1	F	LTR	0.64	24.8	C			
	NB	Lt†	0.00	40.0	D	Lt†	0.00	39.9	D	Lt†	0.00	39.7	D			
		LT	0.47	15.9	B	LT	0.47	15.8	B	LT	0.46	15.1	B			
	SB	TR	0.93	33.9	C	TR	1.00	46.5	D	TR	0.98	40.7	D			
		INTERSECTION			51.5	D			59.8	E			30.2	C		
Park Avenue @ West 40th Street	EB	LT	0.81	39.8	D	LT	0.94	55.6	E	LT	0.94	55.6	E			
		R	0.53	29.9	C	R	0.71	38.8	D	R	0.71	38.8	D			
	NB	T (Tunnel Exit)	0.98	46.7	D	T (Tunnel Exit)	0.98	46.7	D	T (Tunnel Exit)	0.98	46.7	D			
		T (SR onto Viaduct)	0.53	16.1	B	T (SR onto Viaduct)	0.53	16.0	B	T (SR onto Viaduct)	0.53	16.0	B			
		TR	0.55	17.5	B	TR	0.56	17.5	B	TR	0.56	17.5	B			
	SB	T	0.06	10.3	B	T	0.06	10.3	B	T	0.06	10.3	B			
		T (Viaduct Exit)	1.14	96.3	F	T (Viaduct Exit)	1.18	112.2	F	T (Viaduct Exit)	1.18	112.2	F			
		INTERSECTION			52.9	D			60.4	E			60.4	E		



East Midtown Rezoning and Related Actions FEIS

Signalized Intersection	Approach	2033 No-Action				Lesser Density Alternative				Lesser Density Alternative w/ Mitigation				
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	
Park Avenue @ West 47th Street	WB	LT	0.64	26.2	C	LT	0.72	29.5	C	LT	0.76	33.3	C	
		R	0.52	25.0	C	R	0.61	28.7	C	R	0.65	32.3	C	
	NB	L††	0.00	38.0	D	L††	0.00	39.0	D	L††	0.00	39.0	D	
		T	1.04	59.7	E	T	1.09	75.9	E	T	1.04	57.1	E	
	SB	TR	0.82	25.7	C	TR	0.82	25.8	C	TR	0.78	23.0	C	
	INTERSECTION			39.9	D			47.1	D			39.0	D	
Park Avenue @ West 49th Street	WB	LT	0.92	51.4	D	LT	0.96	60.4	E	LT	0.96	60.4	E	
		R	0.50	25.3	C	R	0.52	26.0	C	R	0.52	26.0	C	
	NB	L††	0.00	37.7	D	L††	0.00	37.9	D	L††	0.00	37.9	D	
		T	1.00	47.9	D	T	1.05	60.4	E	T	1.05	60.4	E	
	SB	TR	0.77	22.3	C	TR	0.77	22.5	C	TR	0.77	22.5	C	
	INTERSECTION			36.2	D			42.6	D			42.6	D	
Park Avenue @ West 51st Street	WB	LT	0.63	28.9	C	LT	0.69	33.8	C					
		R	0.56	31.7	C	R	0.65	39.6	D					
	NB	L††	0.00	39.0	D	L††	0.00	39.3	D					
		T	1.02	52.4	D	T	1.01	45.4	D					
	SB	TR	0.79	21.9	C	TR	0.74	18.6	B					
	INTERSECTION			36.0	D			32.6	C					
Park Avenue @ West 53rd Street	WB	LTR	0.90	42.6	D	LTR	0.90	42.8	D	LTR	0.90	42.8	D	
		L††	0.00	38.3	D	L††	0.00	38.3	D	L††	0.00	38.3	D	
	NB	T	1.08	69.5	E	T	1.13	88.3	F	T	1.13	88.3	F	
		TR	0.70	18.0	B	TR	0.70	18.1	B	TR	0.70	18.1	B	
	SB			44.1	D			52.5	D			52.5	D	
	INTERSECTION													
Park Avenue @ West 57th Street	EB	LT	0.72	28.6	C	LT	0.72	28.6	C	LT	0.76	31.9	C	
		R	0.29	21.8	C	R	0.29	21.8	C	R	0.31	23.7	C	
	WB	LT	0.42	22.0	C	LT	0.42	22.0	C	LT	0.44	23.7	C	
		R	0.32	22.6	C	R	0.32	22.6	C	R	0.35	24.6	C	
	NB	L††	0.00	39.9	D	L††	0.00	39.9	D	L††	0.00	40.1	D	
		TR	1.14	94.5	F	TR	1.20	116.5	F	TR	1.15	94.7	F	
	SB	L††	0.00	36.4	D	L††	0.00	36.4	D	L††	0.00	36.5	D	
		TR	1.14	95.1	F	TR	1.14	95.4	F	TR	1.10	75.2	E	
	INTERSECTION			73.7	E			82.1	F			68.2	E	
	Madison Avenue @ East 39th Street	WB	T	0.91	46.0	D	T	0.95	52.4	D	T	0.92	47.0	D
			R	0.81	68.0	E	R	0.86	76.0	E	R	0.73	54.7	D
		NB	LT	0.60	14.1	B	LT	0.61	14.3	B	L	0.35	17.8	B
										T	0.75	18.9	B	
INTERSECTION				25.7	C			28.3	C			28.4	C	
Madison Avenue @ East 40th Street	EB	L	0.45	42.2	D	L	0.51	44.2	D	L	0.39	36.1	D	
		T	0.78	34.4	C	T	1.01	67.1	E	T	0.90	42.8	D	
	NB	TR	0.63	14.6	B	TR	0.64	14.9	B	TR	0.71	19.2	B	
		INTERSECTION			20.2	C			29.6	C			26.1	C
Madison Avenue @ East 44th Street	EB	LT	1.11	110.0	F	LT	1.85	423.2	F	L	1.36	211.2	F	
										T	0.37	21.9	C	
	NB	T	0.84	21.5	C	T	0.86	22.6	C	T	0.86	22.6	C	
		R	1.53	320.7	F	R	1.66	376.8	F	R	1.66	376.8	F	
	INTERSECTION			62.0	E			171.6	F			85.4	F	
Madison Avenue @ East 45th Street	WB	TR	0.46	22.1	C	TR	0.46	22.0	C	TR	0.49	23.9	C	
	NB	L	0.20	10.6	B	L	0.23	11.0	B	L	0.22	9.5	A	
		T	0.92	27.4	C	T	1.04	53.3	D	T	1.00	39.0	D	
INTERSECTION			25.2	C			43.9	D			34.0	C		
Madison Avenue @ East 46th Street	EB	LT	0.88	44.0	D	LT	1.26	159.1	F	LT	0.62	24.9	C	
		T	0.89	25.2	C	T	0.89	24.7	C	T	0.89	24.7	C	
	NB	R	0.80	46.6	D	R	1.82	412.3	F	R	1.82	412.3	F	
		INTERSECTION			31.8	C			123.3	F			81.0	F
Madison Avenue @ East 47th Street	WB	T	0.78	34.3	C	T	1.19	131.8	F	T	0.53	20.0	B	
		R	0.58	46.8	D	R	0.86	71.6	E	R	0.71	49.8	D	
	NB	L	0.51	22.9	C	L	0.69	34.6	C	L	0.36	17.0	B	
		T	0.89	26.6	C	T	0.86	24.6	C	T	0.92	33.4	C	
	INTERSECTION			29.7	C			63.3	E			29.7	C	
Madison Avenue @ East 51st Street	WB	T	0.77	33.0	C	T	0.77	32.8	C	T	0.77	32.8	C	
		R	0.48	43.1	D	R	0.53	45.2	D	R	0.53	45.2	D	
	NB	L	0.76	42.7	D	L	0.76	42.7	D	L	0.76	46.5	D	
		T	0.99	41.1	D	T	1.04	54.6	D	T	1.04	54.6	D	
INTERSECTION			39.5	D			48.6	D			48.8	D		
Fifth Avenue @ 42nd Street	EB	T	0.43	21.5	C	T	0.43	21.5	C	T	0.45	22.4	C	
		R	0.16	20.5	C	R	0.16	20.5	C	R	0.17	21.3	C	
	WB	LT	0.84	33.5	C	LT	0.84	33.8	C	LT	0.87	36.5	D	
		LT	0.99	34.7	C	LT	1.03	46.2	D	LT	1.01	38.9	D	
	SB	R	0.03	9.1	A	R	0.03	9.1	A	R	0.03	8.5	A	
		INTERSECTION			32.4	C			39.7	D			35.9	D

East Midtown Rezoning and Related Actions FEIS

Signalized Intersection	Approach	2033 No-Action				Lesser Density Alternative				Lesser Density Alternative w/ Mitigation			
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
Fifth Avenue @ 44th Street	EB	T	0.44	23.0	C	T	0.50	24.2	C	T	0.50	24.2	C
		R	1.10	109.8	F	R	1.16	132.2	F	R	1.16	132.2	F
	SB	LT	1.01	40.6	D	LT	1.13	81.8	F	LT	1.13	81.8	F
		INTERSECTION			47.7	D			82.2	F			82.2
Fifth Avenue @ 46th Street	EB	TR	1.00	68.8	E	TR	1.17	126.2	F	TR	1.17	126.2	F
	SB	LT	1.00	37.0	D	LT	1.16	94.9	F	LT	1.16	94.9	F
	INTERSECTION			43.3	D			101.3	F			101.3	F
Fifth Avenue @ 47th Street	WB	L	0.76	56.0	E	L	1.59	322.6	F	L	1.59	322.6	F
		T	0.57	23.4	C	T	0.64	25.5	C	T	0.64	25.5	C
	SB	T	0.96	33.7	C	T	1.01	43.4	D	T	1.01	43.4	D
		R	1.05	115.6	F	R	1.06	118.5	F	R	1.06	118.5	F
INTERSECTION			38.6	D			85.0	F			85.0	F	
Fifth Avenue @ 48th Street	EB	T	0.67	26.5	C	T	0.76	30.6	C	T	0.76	30.6	C
		R	1.11	130.8	F	R	1.34	219.0	F	R	1.34	219.0	F
	SB	LT	1.00	42.5	D	LT	1.03	49.7	D	LT	1.03	49.7	D
		INTERSECTION			49.1	D			66.6	E			66.6
Fifth Avenue @ 59th Street	EB	T	0.40	19.1	B	T	0.40	19.1	B	T	0.40	19.1	B
		R	0.79	58.5	E	R	0.79	58.5	E	R	0.79	58.5	E
	SB	LT	1.31	166.9	F	LT	1.35	181.6	F	LT	1.35	181.6	F
		INTERSECTION			124.2	F			135.1	F			135.1
Sixth Avenue @ West 40th Street	EB	L	0.69	36.4	D	L	0.71	37.6	D	L	0.73	40.2	D
		T	0.57	25.7	C	T	0.59	26.2	C	T	0.61	27.5	C
	NB	T	0.86	25.1	C	T	0.87	25.3	C	T	0.84	23.5	C
		R	1.37	232.0	F	R	1.39	238.6	F	R	1.29	197.7	F
INTERSECTION			39.2	D			39.9	D			36.3	D	
Sixth Avenue @ West 42nd Street	EB	LT	0.48	25.2	C	LT	0.48	25.2	C	LT	0.46	24.2	C
	WB	T	0.63	28.3	C	T	0.63	28.3	C	T	0.61	27.1	C
		R	1.22	162.6	F	R	1.25	173.2	F	R	1.19	148.6	F
	NB	LT	0.64	11.0	B	LT	0.64	11.1	B	LT	0.66	12.0	B
		R	0.24	9.1	A	R	0.24	9.1	A	R	0.25	9.9	A
INTERSECTION			28.8	C			29.9	C			28.0	C	
Sixth Avenue @ West 44th Street	EB	L	0.43	28.4	C	L	0.43	28.4	C	L	0.46	31.2	C
		T	0.33	23.8	C	T	0.35	24.2	C	T	0.38	26.1	C
	NB	T	0.68	11.6	B	T	0.71	12.0	B	T	0.68	10.1	B
		R	1.17	125.6	F	R	1.21	140.6	F	R	1.17	120.7	F
INTERSECTION			25.9	C			28.0	C			24.5	C	
Sixth Avenue @ West 45th Street	WB	T	0.70	30.9	C	T	0.74	33.1	C	T	0.76	34.0	C
		R	0.45	25.0	C	R	0.77	40.1	D	R	0.75	38.9	D
	NB	LT	0.86	19.4	B	LT	0.89	20.7	C	LT	0.89	20.7	C
		INTERSECTION			21.3	C			24.0	C			24.0
Sixth Avenue @ West 46th Street	EB	L	0.33	35.6	D	L	0.33	35.6	D	L	0.40	40.6	D
		T	0.44	19.1	B	T	0.45	19.2	B	T	0.49	21.9	C
	NB	T	0.81	22.2	C	T	0.85	23.9	C	T	0.79	19.2	B
		R	0.71	32.0	C	R	0.91	54.7	D	R	0.84	40.9	D
INTERSECTION			23.1	C			26.8	C			22.3	C	

Notes:

1) To mimic actual conditions for NB/SB left turning vehicles on Park Avenue, the sum of two delays were accounted for: (1) delay from making the left turn; and (2) delay from waiting at the red light after the left turn. Shading denotes locations with no significant adverse impacts.

Locations with no significant adverse impacts under the proposed action were not analyzed for Lower Density Alternative conditions.

Source: Parsons Brinckerhoff, Inc. 2013

**Weekday Hourly Net Parking Accumulation for Lesser Density Alternative**

Time Period	Land Use				Total
	Office	Residential	Destination Retail	Hotel	
12:00 AM - 1:00 AM	0	-119	0	1	-118
1:00 AM - 2:00 AM	0	-119	0	1	-118
2:00 AM - 3:00 AM	0	-119	0	1	-118
3:00 AM - 4:00 AM	0	-119	0	1	-118
4:00 AM - 5:00 AM	0	-119	0	1	-118
5:00 AM - 6:00 AM	0	-119	0	1	-118
6:00 AM - 7:00 AM	0	-118	0	1	-117
7:00 AM - 8:00 AM	28	-111	0	1	-82
8:00 AM - 9:00 AM	372	-94	0	0	278
9:00 AM - 10:00 AM	638	-85	0	0	553
10:00 AM - 11:00 AM	613	-82	5	0	536
11:00 AM - 12:00 PM	600	-82	9	0	527
12:00 PM - 1:00 PM	593	-82	11	0	522
1:00 PM - 2:00 PM	615	-82	12	0	545
2:00 PM - 3:00 PM	664	-82	12	0	594
3:00 PM - 4:00 PM	659	-85	11	0	585
4:00 PM - 5:00 PM	466	-93	11	0	384
5:00 PM - 6:00 PM	75	-104	10	1	-18
6:00 PM - 7:00 PM	19	-114	10	1	-84
7:00 PM - 8:00 PM	2	-120	12	1	-105
8:00 PM - 9:00 PM	0	-123	9	1	-113
9:00 PM - 10:00 PM	0	-119	0	1	-118
10:00 PM - 11:00 PM	0	-119	0	1	-118
11:00 PM - 12:00 AM	0	-119	0	1	-118

**Note:** Midday peak period is noon to 2:00 p.m.

**Source:** Parsons Brinckerhoff, Inc., 2013

**Lesser Density Alternative Comparison  
Corner Conditions**

Intersection	Corner	No-Action		With-Action		Lesser Density		Action With Mitigation		Lesser Density With Mitigation		See Note
		Pedestrian Space (SFP)	LOS	Pedestrian Space (SFP)	LOS	Pedestrian Space (SFP)	LOS	Pedestrian Space (SFP)	LOS	Pedestrian Space (SFP)	LOS	
<b>AM Peak Period</b>												
(5) Third Ave @ East 42nd St.	Northwest	19.9	D	16.7	D	19.8	D	17.5	D	-	-	1,2
(6) Lexington Ave @ East 50th St.	Northeast	11.3	E	10.4	E	10.8	E	25.2	C	-	-	1
	Southeast	19.4	D	17.3	D	18.2	D	33.8	C	-	-	1
(17) Madison Ave @ East 43rd St.	Northeast	2.5	F	1.5	F	1.5	F	1.1	F	1.1	F	2,3
(18) Madison Ave @ East 42nd St.	Northwest	13.4	E	11.0	E	11.1	E	11.0	E	11.0	E	2
<b>MD Peak Period</b>												
(6) Lexington Ave @ East 50th St.	Northeast	21.1	D	17.8	D	19.1	D	35.0	C	37.2	C	
	Southeast	13.5	E	10.0	E	11.3	E	22.9	D	25.0	C	
	Southwest	16.2	D	11.3	E	12.9	E	27.8	C	30.4	C	
(17) Madison Ave @ East 43rd St.	Northeast	21.4	D	18.1	D	18.1	D	18.1	D	18.1	D	2
<b>PM Peak Period</b>												
(6) Lexington Ave @ East 50th St.	Northeast	14.9	E	12.9	E	13.5	E	27.2	C	28.3	C	
	Northwest	22.8	D	19.0	D	19.8	D	19.0	D	-	-	1,2
	Southeast	14.1	E	11.5	E	12.2	E	25.8	C	26.9	C	
	Southwest	20.6	D	16.8	D	17.8	D	34.0	C	35.6	C	3
(18) Madison Ave @ East 42nd St.	Northwest	11.7	E	10.3	E	10.4	E	10.3	E	10.4	E	2
<b>Notes:</b>												
SFP - square feet per pedestrian.												
* - Proposed With-Action mitigation is applied to the Lesser Density Alternative.												
1. Impacted under the With-Action condition but not impacted under the Lesser Density Alternative.												
2. Unmitigated.												
3. Impact worsened by traffic mitigation signal timing changes.												

**Lesser Density Alternative Comparison  
Crosswalk Conditions**

Intersection	Crosswalk	No-Action		With-Action		Lesser Density		Action With Mitigation		Lesser Density With Mitigation*		See Note
		Pedestrian Space (SFP)	LOS	Pedestrian Space (SFP)	LOS	Pedestrian Space (SFP)	LOS	Pedestrian Space (SFP)	LOS	Pedestrian Space (SFP)	LOS	
<b>AM Peak Period</b>												
(5) Third Ave @ East 42nd St.	North	6.8	F	6.0	F	6.8	F	6.9	F	-	-	1
(6) Lexington Ave @ East 50th St.	North	16.2	D	15.3	D	15.5	D	15.4	D	-	-	2,3
	West	20.6	D	19.7	D	19.9	D	18.8	D	19.1	D	4
(7) Lexington Ave @ East 49th St.	West	19.1	D	15.9	D	15.9	D	19.6	D	19.7	D	
(15) Madison Ave @ East 45th St.	North	15.4	D	12.0	E	12.0	E	12.7	E	12.7	E	5
	East	13.1	E	11.8	E	11.8	E	16.1	D	16.1	D	
(18) Madison Ave @ East 42nd St.	North	7.8	F	7.2	F	7.2	F	7.4	F	7.4	F	
(23) Fifth Ave @ East 44th St.	East	16.8	D	12.6	E	12.5	E	15.7	D	15.7	D	
<b>MD Peak Period</b>												
(4) Third Ave @ East 49th St.	North	22.8	D	18.6	D	20.0	D	19.9	D	-	-	1
(5) Third Ave @ East 42nd St.	North	21.2	D	17.1	D	21.1	D	19.5	D	-	-	1
(6) Lexington Ave @ East 50th St.	South	18.9	D	14.8	E	16.3	D	17.3	D	19.0	D	6
	East	12.5	E	10.8	E	11.6	E	12.0	E	-	-	1
(8) Lexington Ave @ East 48th St.	South	23.6	D	18.7	D	19.4	D	19.5	D	20.2	D	
(21) Fifth Ave @ East 46th St.	South	21.1	D	17.2	D	17.2	D	19.5	D	19.5	D	
<b>PM Peak Period</b>												
(5) Third Ave @ East 42nd St.	North	8.9	E	7.4	F	8.7	E	8.5	E	-	-	1
(7) Lexington Ave @ East 49th St.	West	23.6	D	16.5	D	16.5	D	20.3	D	20.4	D	
(14) Madison Ave @ East 46th St.	East	16.4	D	12.2	E	12.3	E	15.3	D	15.3	D	
(18) Madison Ave @ East 42nd St.	North	6.7	F	6.2	F	6.2	F	6.4	F	6.4	F	
(21) Fifth Ave @ East 46th St.	South	22.2	D	19.1	D	19.1	D	21.6	D	21.6	D	

**Notes:**

SFP - Square feet per pedestrian.

\* - Proposed With-Action mitigation is applied to the Lesser Density Alternative.

1. Impacted under the With-Action condition but not impacted under the Lesser Density Alternative.
2. No significant adverse impact for the Lesser Density Alternative
3. No significant adverse impact for the With-Action Condition. Significant adverse impact is due to corner mitigation measures.
4. No significant adverse impact for the With-Action Condition or Lesser Density Alternative. Significant adverse impact is due to corner mitigation measures.
5. Partially mitigated. Impact worsened by traffic mitigation signal timing changes.
6. Impact worsened by corner mitigation.



## Modified Proposal Alternative





### INCREMENTAL SHADOWS ON RESOURCES OF CONCERN

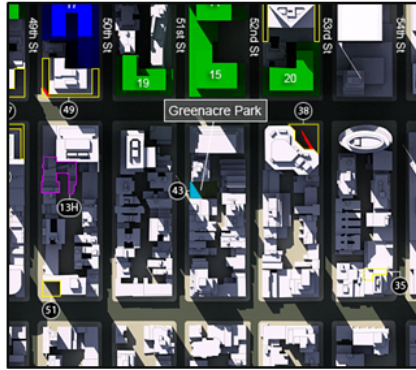


38: 875 Third Avenue

March 21<sup>st</sup>, 2:24 p.m.



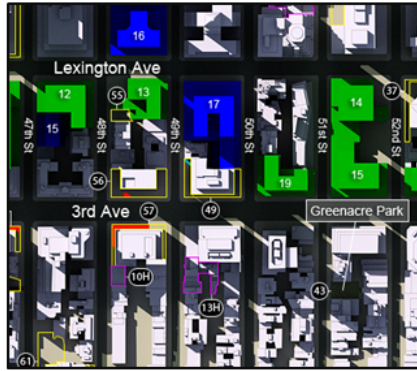
**INCREMENTAL SHADOWS ON RESOURCES OF CONCERN (CONTINUED)**



43: Greenacre Park June 21<sup>st</sup>, 3:35 p.m.



**INCREMENTAL SHADOWS ON RESOURCES OF CONCERN (CONTINUED)**



49: 800 Third Avenue

May 6<sup>th</sup>, 2:24 p.m.



**INCREMENTAL SHADOWS ON RESOURCES OF CONCERN (CONTINUED)**

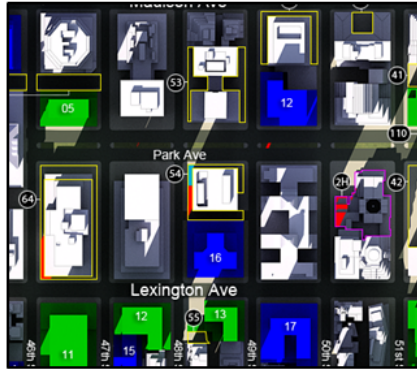


53: 280 Park Avenue

March 21<sup>st</sup>, 9:19 a.m.



**INCREMENTAL SHADOWS ON RESOURCES OF CONCERN (CONTINUED)**



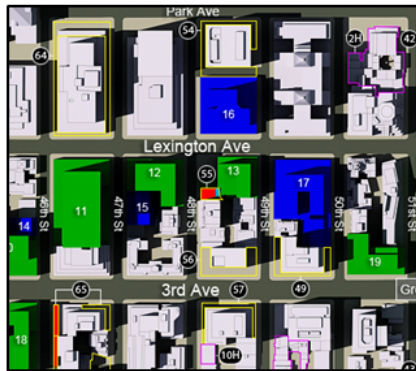
**INCREMENTAL SHADOWS ON RESOURCES OF CONCERN (CONTINUED)**



55: Cosmopolitan Condominiums March 21<sup>st</sup>, 12:04 p.m.



55: Cosmopolitan Condominiums May 6<sup>th</sup>, 12:04 p.m.



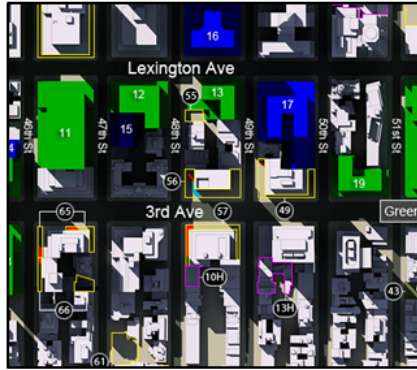
55: Cosmopolitan Condominiums June 21<sup>st</sup>, 12:17 p.m.

- Projected Development Site
- Potential Development Site
- Open Space Resource
- Historic Resource

- With-Action Incremental Shadow (Modified Proposal Alternative RWCDs)
- With-Action Incremental Shadow (Proposed Action RWCDs)
- No-Action Incremental Shadow



**INCREMENTAL SHADOWS ON RESOURCES OF CONCERN (CONTINUED)**

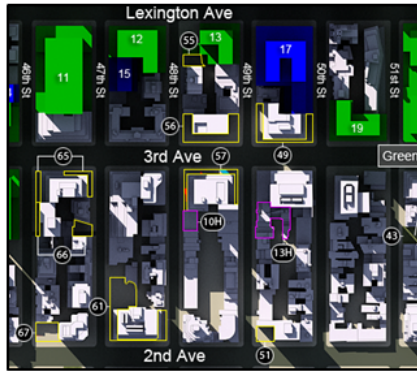


56: 780 Third Avenue

June 21<sup>st</sup>, 2:42 p.m.



**INCREMENTAL SHADOWS ON RESOURCES OF CONCERN (CONTINUED)**



57: 777 Third Avenue

May 6<sup>th</sup>, 3:16 p.m.



57: 777 Third Avenue

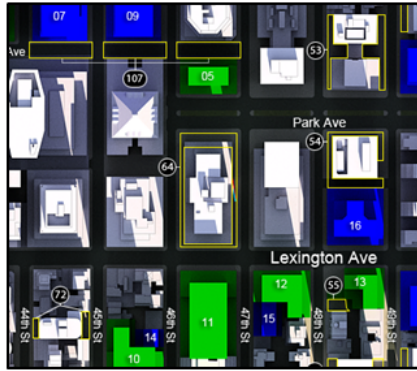
June 21<sup>st</sup>, 3:09 p.m.

	Projected Development Site		Open Space Resource		With-Action Incremental Shadow (Modified Proposal Alternative RWCDs)
	Potential Development Site		Historic Resource		With-Action Incremental Shadow (Proposed Action RWCDs)
					No-Action Incremental Shadow

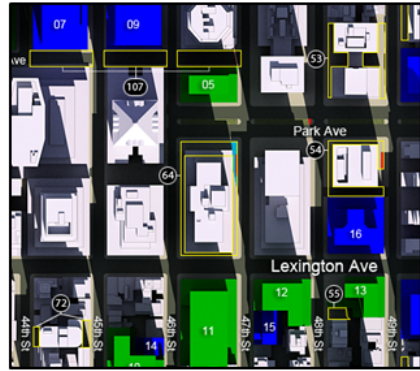




**INCREMENTAL SHADOWS ON RESOURCES OF CONCERN (CONTINUED)**



64: 245 Park Avenue March 21<sup>st</sup>, 7:50 a.m.



64: 245 Park Avenue May 6<sup>th</sup>, 8:47 a.m.



64: 245 Park Avenue June 21<sup>st</sup>, 9:13 a.m.

- Projected Development Site
- Potential Development Site
- Open Space Resource
- Historic Resource

- With-Action Incremental Shadow (Proposed Action RWCDs)
- No-Action Incremental Shadow



**INCREMENTAL SHADOWS ON RESOURCES OF CONCERN (CONTINUED)**



110: Park Avenue Malls March 21<sup>st</sup>, 9:56 a.m.



110: Park Avenue Malls May 6<sup>th</sup>, 8:11 a.m.



**VISUAL RESOURCES ALONG EXTENDED VIEW CORRIDORS – EXISTING VIEWS AND ILLUSTRATIVE RENDERINGS OF CHANGES TO VIEWS IN THE WITH-ACTION CONDITION: PROPOSED ACTION RWCDs AND MODIFIED PROPOSAL ALTERNATIVE RWCDs**

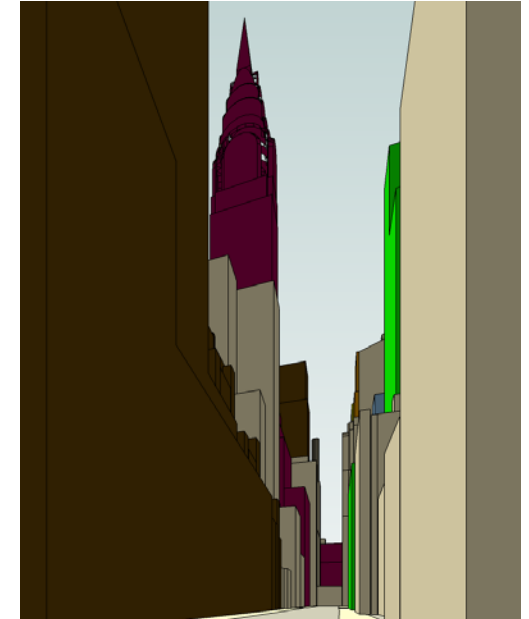
**View of the Chrysler Building along the 43rd Street view corridor, looking west from Second Avenue**



**Existing view**



**View in the With-Action condition  
(Proposed Action RWCDs)**



**View in the With-Action condition  
(Modified Proposal Alternative RWCDs)**

**Sources:** Parsons Brinckerhoff, 2013; DCP

**Legend:**



Visual Resource



No-Action Development Site: Planned or Under Construction



With-Action Projected Development Site: Proposed Action RWCDs



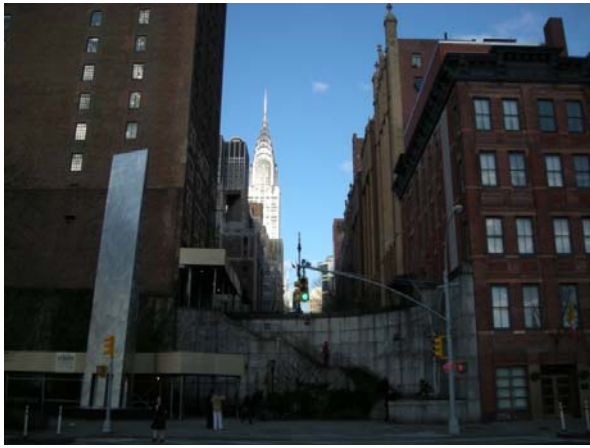
With-Action Potential Development Site: Proposed Action RWCDs



With-Action Potential Development Site: Modified Proposal Alternative RWCDs

**VISUAL RESOURCES ALONG EXTENDED VIEW CORRIDORS – EXISTING VIEWS AND ILLUSTRATIVE RENDERINGS OF CHANGES TO VIEWS IN THE WITH-ACTION CONDITION: PROPOSED ACTION RWCDs AND MODIFIED PROPOSAL ALTERNATIVE RWCDs (CONTINUED)**

**View of the Chrysler Building along the 43rd Street view corridor, looking west from First Avenue**



**Existing view**



**Obstructed view in the With-Action condition  
(Proposed Action RWCDs)**



**Obstructed view in the With-Action condition  
(Modified Proposal Alternative RWCDs)**

**Sources:** Parsons Brinckerhoff, 2013; DCP

**Legend:**



Visual Resource



No-Action Development Site: Planned or Under Construction



With-Action Projected Development Site: Proposed Action RWCDs



With-Action Potential Development Site: Proposed Action RWCDs



With-Action Potential Development Site: Modified Proposal Alternative RWCDs

**VISUAL RESOURCES ALONG EXTENDED VIEW CORRIDORS – EXISTING VIEWS AND ILLUSTRATIVE RENDERINGS OF CHANGES TO VIEWS IN THE WITH-ACTION CONDITION: PROPOSED ACTION RWCDs AND MODIFIED PROPOSAL ALTERNATIVE RWCDs (CONTINUED)**

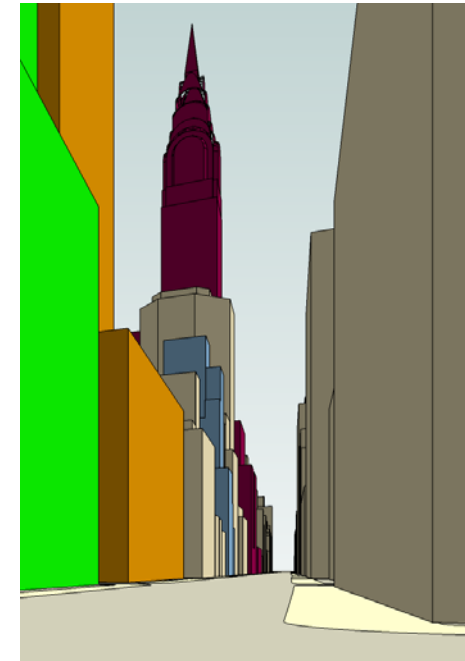
**View of the Chrysler Building along the Lexington Avenue view corridor, looking south from East 48th Street**



**Existing view**



**View in the With-Action condition  
(Proposed Action RWCDs)**



**View in the With-Action condition  
(Modified Proposal Alternative RWCDs)**

**Sources:** Parsons Brinckerhoff, 2013; DCP

**Legend:**



Visual Resource



No-Action Development Site: Planned or Under Construction



With-Action Projected Development Site: Proposed Action RWCDs



With-Action Potential Development Site: Proposed Action RWCDs



With-Action Potential Development Site: Modified Proposal Alternative RWCDs

**VISUAL RESOURCES ALONG EXTENDED VIEW CORRIDORS – EXISTING VIEWS AND ILLUSTRATIVE RENDERINGS OF CHANGES TO VIEWS IN THE WITH-ACTION CONDITION: PROPOSED ACTION RWCDs AND MODIFIED PROPOSAL ALTERNATIVE RWCDs (CONTINUED)**

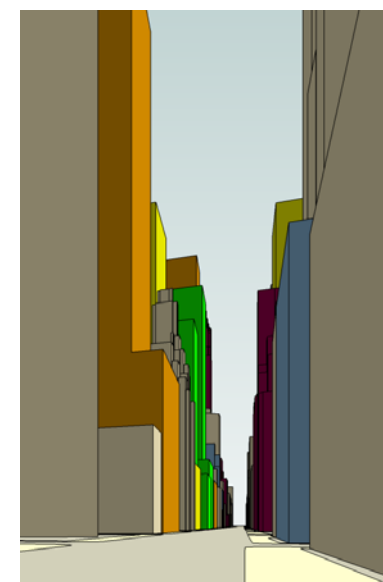
**View of the Chrysler Building along the Lexington Avenue view corridor, looking south from East 54th Street**



**Existing view**



**Partially obstructed view in the With-Action condition (Proposed Action RWCDs)**



**Partially obstructed view in the With-Action condition (Modified Proposal Alternative RWCDs)**

**Sources:** Parsons Brinckerhoff, 2013; DCP

**Legend:**

- Visual Resource
- No-Action Development Site: Planned or Under Construction
- With-Action Projected Development Site: Proposed Action RWCDs
- With-Action Potential Development Site: Proposed Action RWCDs
- With-Action Projected Development Site: Modified Proposal Alternative RWCDs
- With-Action Potential Development Site: Modified Proposal Alternative RWCDs

**VISUAL RESOURCES ALONG EXTENDED VIEW CORRIDORS – EXISTING VIEWS AND ILLUSTRATIVE RENDERINGS OF CHANGES TO VIEWS IN THE WITH-ACTION CONDITION: PROPOSED ACTION RWCDs AND MODIFIED PROPOSAL ALTERNATIVE RWCDs (CONTINUED)**

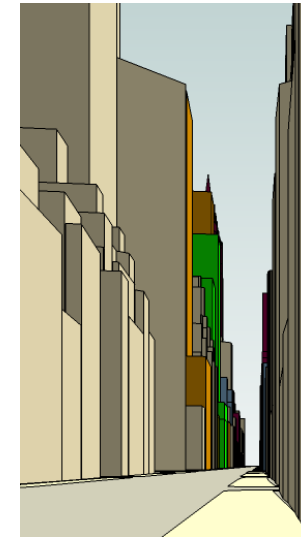
**View of the Chrysler Building along the Lexington Avenue view corridor, looking south from East 57th Street**



**Existing view**



**Partially obstructed view in the With-Action condition (Proposed Action RWCDs)**



**Partially obstructed view in the With-Action condition (Modified Proposal Alternative RWCDs)**

**Sources:** Parsons Brinckerhoff, 2013; DCP

**Legend:**



Visual Resource



No-Action Development Site: Planned or Under Construction



With-Action Projected Development Site: Proposed Action RWCDs



With-Action Potential Development Site: Proposed Action RWCDs



With-Action Potential Development Site: Modified Proposal Alternative RWCDs



**VISUAL RESOURCES ALONG EXTENDED VIEW CORRIDORS – EXISTING VIEWS AND ILLUSTRATIVE RENDERINGS OF CHANGES TO VIEWS IN THE WITH-ACTION CONDITION: PROPOSED ACTION RWCDs AND MODIFIED PROPOSAL ALTERNATIVE RWCDs (CONTINUED)**

**View of the East Midtown skyline from Gantry Plaza State Park in Long Island City, Queens**



**Existing view**



**View in the With-Action condition  
(Proposed Action RWCDs)**






**View in the With-Action condition  
(Modified Proposal Alternative RWCDs)**

**Sources:** Parsons Brinckerhoff, 2013; DCP

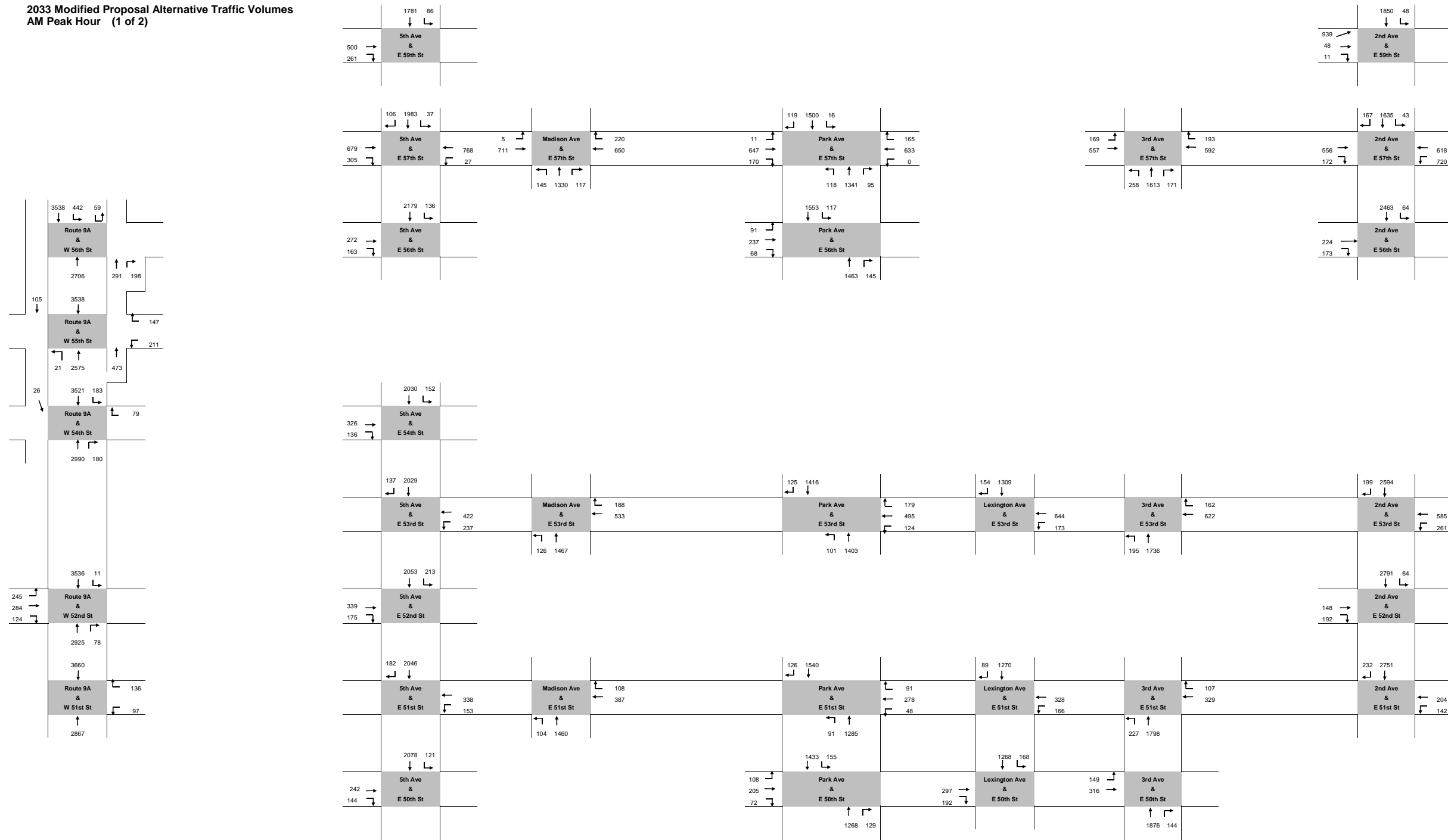
**Notes:** The UNDC No-Action development is not shown in the image depicting the view in the With-Action condition.

**Legend:**

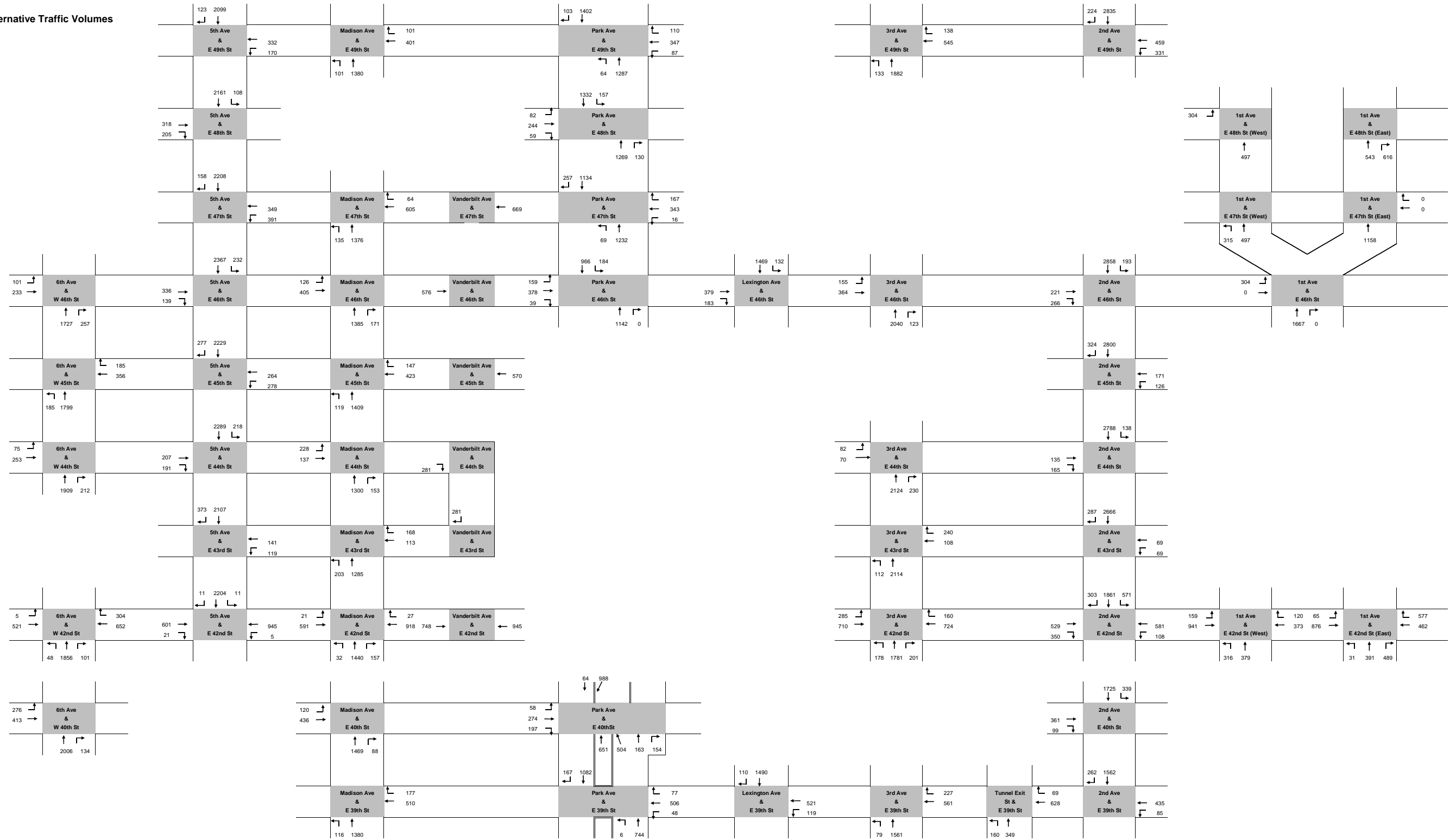
-  With-Action Projected Development Site: Proposed Action RWCDs
-  With-Action Potential Development Site: Proposed Action RWCDs
-  With-Action Projected Development Site: Modified Proposal Alternative RWCDs
-  With-Action Potential Development Site: Modified Proposal Alternative RWCDs



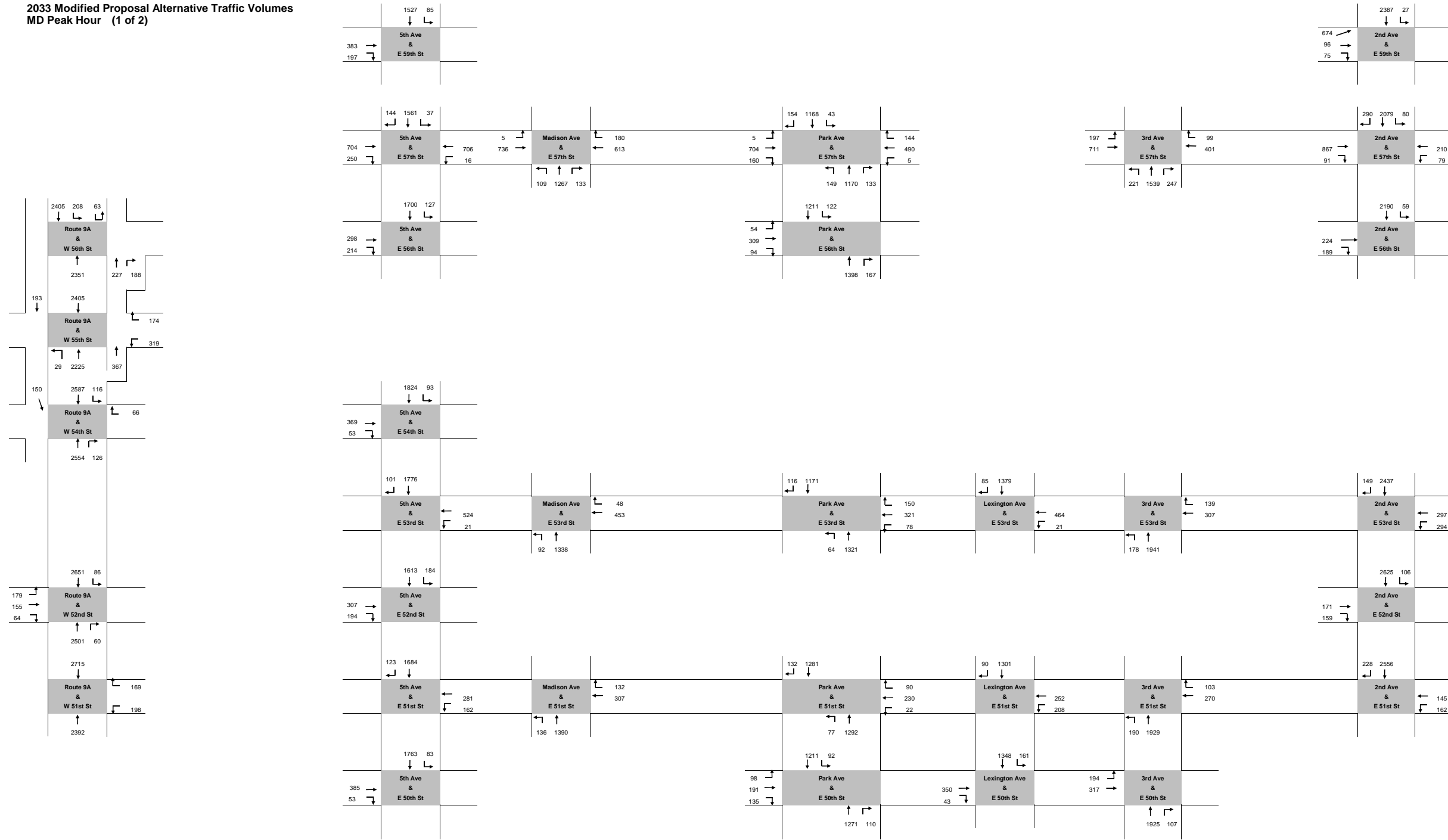
2033 Modified Proposal Alternative Traffic Volumes  
AM Peak Hour (1 of 2)



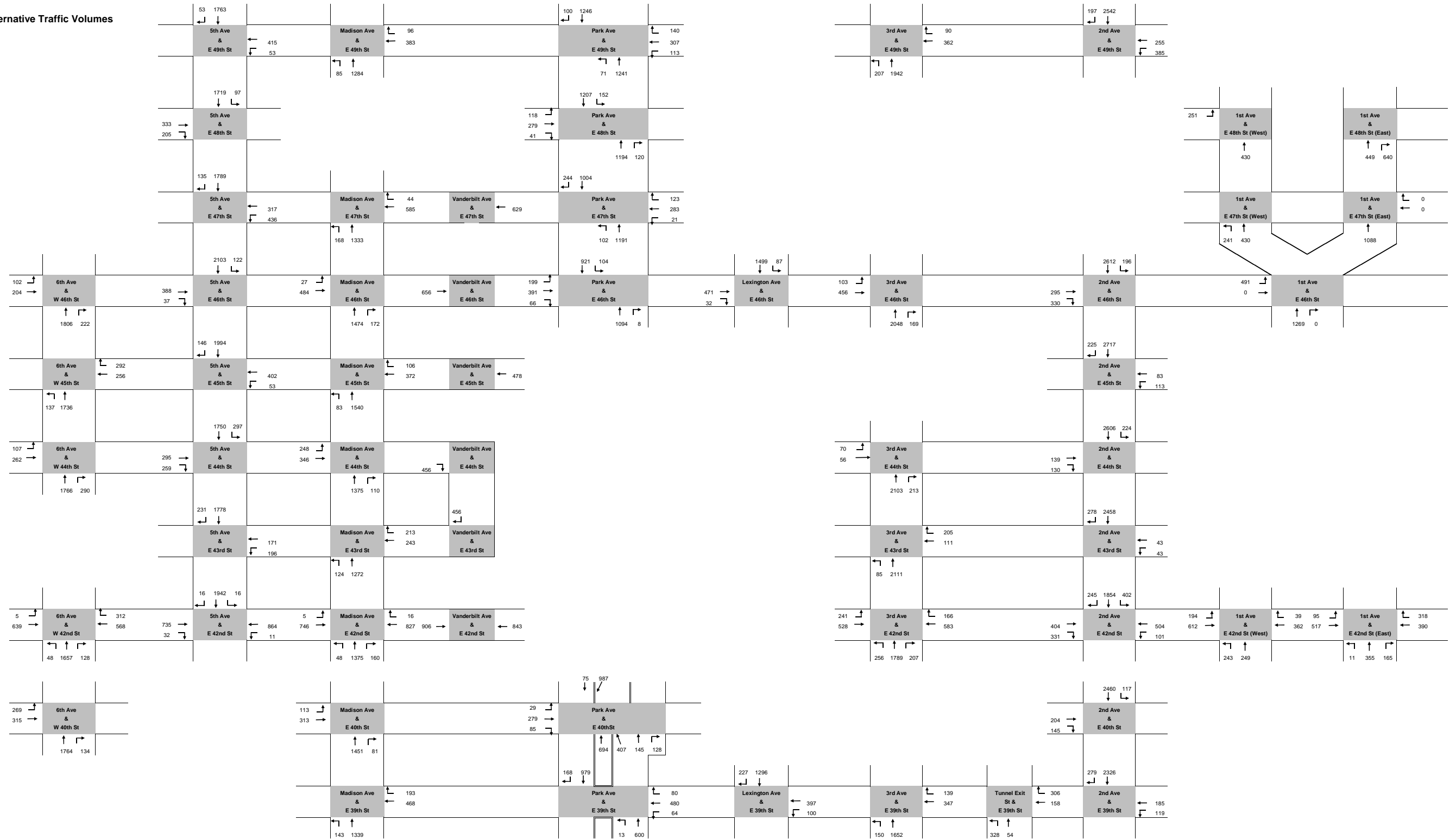
2033 Modified Proposal Alternative Traffic Volumes  
AM Peak Hour (2 of 2)



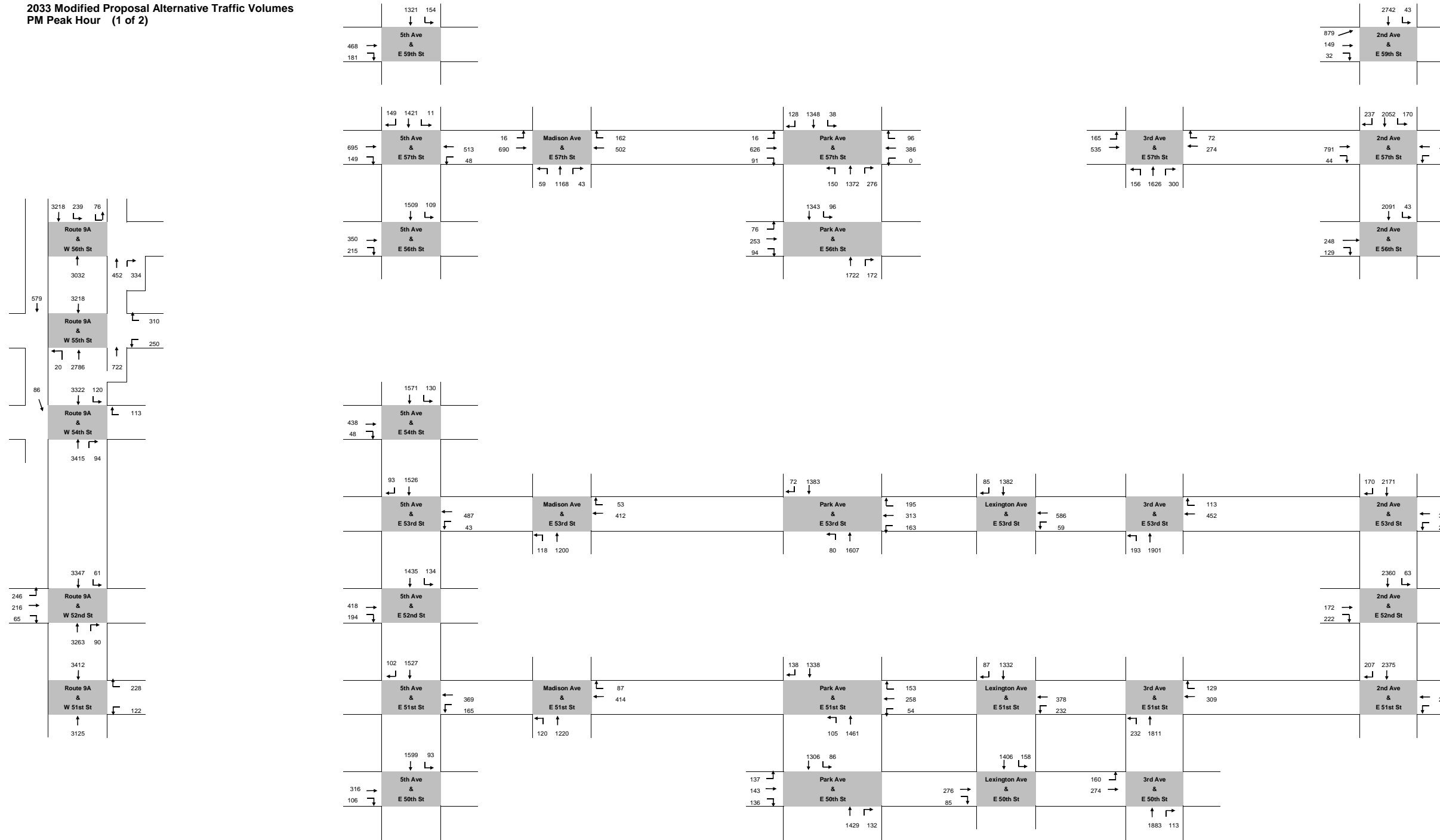
2033 Modified Proposal Alternative Traffic Volumes  
MD Peak Hour (1 of 2)



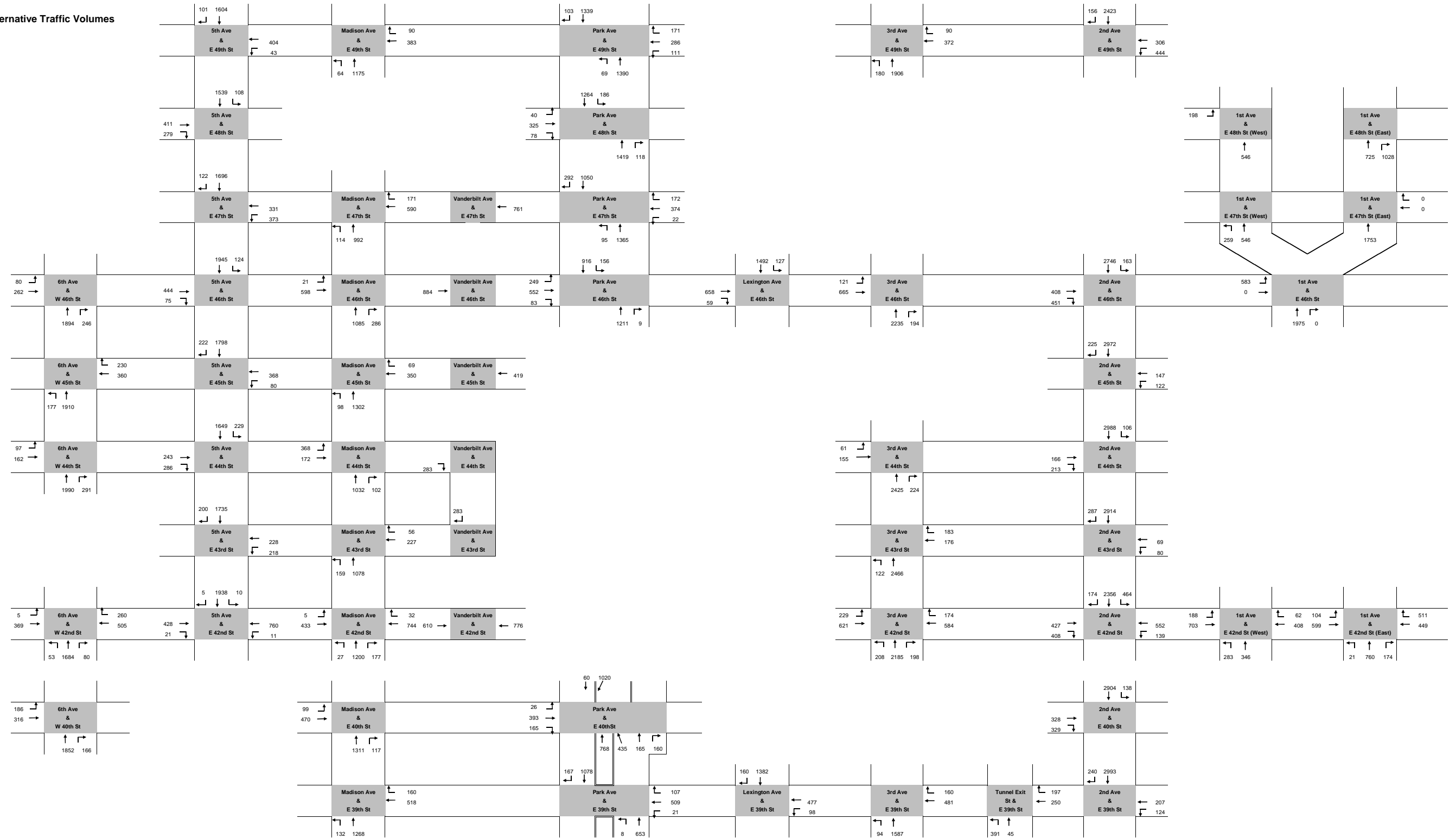
2033 Modified Proposal Alternative Traffic Volumes  
MD Peak Hour (2 of 2)



2033 Modified Proposal Alternative Traffic Volumes  
PM Peak Hour (1 of 2)



2033 Modified Proposal Alternative Traffic Volumes  
PM Peak Hour (2 of 2)



# East Midtown Rezoning and Related Actions FEIS

Level of Service Table - 2033 Modified Proposal Alternative Conditions (AM Peak Hour)

Signalized Intersection	Approach	2033 No-Action				Modified Proposal Alternative				Modified Proposal Alternative w/ Mitigation				
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	
First Avenue @ East 42nd Street	EB	L (east)	0.61	47.2	D	L (east)	0.65	51.8	D	L (east)	0.60	45.3	D	
		T (east)	1.08	85.4	F	T (east)	1.08	84.5	F	T (east)	1.05	72.6	E	
		L (west)	0.99	95.5	F	L (west)	1.01	102.8	F	L (west)	0.97	89.9	F	
	WB	T (west)	1.24	149.9	F	T (west)	1.24	148.9	F	T (west)	1.20	131.7	F	
		TR (east)	0.85	37.3	D	TR (east)	0.88	39.3	D	TR (east)	0.85	36.0	D	
		R (east)	0.80	43.2	D	R (east)	0.82	45.0	D	R (east)	0.79	40.9	D	
	NB	TR (west)	0.52	25.5	C	TR (west)	0.53	25.7	C	TR (west)	0.51	24.7	C	
		LT (east)	0.59	19.4	B	LT (east)	0.59	19.4	B	LT (east)	0.61	20.6	C	
		R (east)	0.91	41.6	D	R (east)	0.91	41.6	D	R (east)	0.92	42.9	D	
		L (west)	0.53	18.6	B	L (west)	0.53	18.6	B	L (west)	0.55	19.8	B	
	INTERSECTION			63.9	E			63.9	E			57.9	E	
	First Avenue @ East 46th Street	EB	L	0.56	25.7	C	L	0.60	27.0	C				
		NB	T	0.84	19.3	B	T	0.85	19.5	B				
INTERSECTION				20.2	C			20.7	C					
First Avenue @ East 47th Street	WB	TR (east)	0.00	16.8	B	TR (east)	0.00	16.8	B					
		TR (west)	0.00	16.8	B	TR (west)	0.00	16.8	B					
	NB	L (west)	0.44	12.9	B	L (west)	0.45	13.0	B					
		T (west)	0.70	18.5	B	T (west)	0.70	18.7	B					
	INTERSECTION	TR (east)	0.84	21.1	C	TR (east)	0.86	22.1	C					
				19.1	B			19.8	B					
First Avenue @ East 48th Street	NB	T	0.62	15.7	B	T	0.63	15.9	B					
		R	0.87	28.5	C	R	0.89	30.7	C					
	INTERSECTION			22.5	C			23.8	C					
Second Avenue @ East 39th Street	WB	LT	0.55	26.2	C	LT	0.60	27.2	C					
	SB	T	0.52	9.6	A	T	0.52	9.6	A					
	INTERSECTION			13.3	B			13.8	B					
Second Avenue @ East 40th Street	WB	R	0.47	11.4	B	R	0.48	11.7	B					
	EB	TR	0.56	26.7	C	TR	0.57	26.9	C					
	INTERSECTION			14.5	B			14.6	B					
Second Avenue @ East 42nd Street	SB	LT	0.70	11.8	B	LT	0.71	11.9	B					
	EB	T	0.58	26.2	C	T	0.58	26.2	C	T	0.58	26.2	C	
	INTERSECTION			26.2	C			26.2	C					
Second Avenue @ East 43rd Street	WB	R	1.84	425.3	F	R	1.86	434.1	F	R	1.86	434.1	F	
		LT	1.14	111.3	F	LT	1.19	130.2	F	LT	1.19	130.2	F	
	SB	L	1.36	195.6	F	L	1.36	196.3	F	L	1.36	196.3	F	
		T	0.84	21.9	C	T	0.84	21.9	C	T	0.84	21.9	C	
	INTERSECTION			30.4	C			32.6	C			32.6	C	
				93.0	F			97.2	F			97.2	F	
Second Avenue @ East 44th Street	WB	LT	0.43	26.8	C	LT	0.44	26.8	C					
	SB	T	0.84	14.8	B	T	0.85	14.8	B					
	INTERSECTION			15.3	B			15.5	B					
Second Avenue @ East 45th Street	WB	R	0.58	14.4	B	R	0.63	15.9	B					
	EB	TR	1.07	105.0	F	TR	1.13	124.5	F	TR	1.05	94.9	F	
	INTERSECTION			20.5	C			22.8	C			22.8	C	
Second Avenue @ East 46th Street	SB	LT	0.86	12.1	B	LT	0.86	12.3	B	LT	0.90	15.4	B	
	WB	LT	1.10	113.8	F	LT	1.12	120.8	F	LT	1.08	105.3	F	
	INTERSECTION			14.6	B			14.6	B					
Second Avenue @ East 47th Street	SB	T	0.80	10.5	B	T	0.80	10.6	B	T	0.82	11.7	B	
	WB	R	0.62	12.7	B	R	0.66	14.0	B	R	0.67	15.2	B	
	INTERSECTION			19.6	B			20.5	C			20.2	C	
Second Avenue @ East 48th Street	EB	T	0.43	28.2	C	T	0.48	29.2	C	T	0.47	28.1	C	
	SB	R	1.16	138.6	F	R	1.18	147.8	F	R	1.13	127.3	F	
	INTERSECTION			24.6	C			26.0	C			26.3	C	
Second Avenue @ East 49th Street	WB	LT	0.91	14.5	B	LT	0.92	15.1	B	LT	0.94	17.3	B	
		L	1.14	126.4	F	L	1.18	141.2	F	L	1.12	117.7	F	
	SB	T	0.53	30.0	C	T	0.59	31.2	C	T	0.57	29.9	C	
		R	0.89	17.5	B	R	0.90	18.1	B	R	0.92	20.3	C	
INTERSECTION			13.3	B			13.8	B			14.9	B		
Second Avenue @ East 51st Street	WB	T	0.50	15.9	B	T	0.52	16.0	B	R	0.53	17.2	B	
	SB	LT	0.92	57.7	E	LT	0.94	61.0	E					
	INTERSECTION			19.6	B			20.8	C					
Second Avenue @ East 52nd Street	WB	T	0.83	14.3	B	T	0.84	14.7	B					
	SB	R	0.74	26.1	C	R	0.82	33.6	C					
	INTERSECTION			24.2	C			24.4	C					
Second Avenue @ East 53rd Street	EB	TR	1.07	98.7	F	TR	1.06	96.0	F					
	WB	LT	1.13	105.5	F	LT	1.15	114.8	F	LT	1.11	97.2	F	
	INTERSECTION			24.2	C			24.4	C					
Second Avenue @ East 54th Street	SB	T	0.86	18.6	B	T	0.88	19.4	B	T	0.90	21.3	C	
	WB	R	0.50	15.9	B	R	0.51	16.0	B	R	0.52	17.2	B	
	INTERSECTION			38.7	D			41.4	D			38.8	D	
Second Avenue @ East 56th Street	EB	T	0.51	27.4	C	T	0.51	27.5	C					
	SB	R	0.60	32.9	C	R	0.60	32.8	C					
	INTERSECTION			15.2	B			15.4	B					

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Second Avenue @ East 57th Street	EB	T	1.11	109.7	F	T	1.11	109.7	F				
		R	0.60	26.6	C	R	0.60	26.6	C				
	WB	L	0.82	34.9	C	L	0.84	36.1	D				
		LT	0.94	46.3	D	LT	0.94	46.3	D				
	SB	L	0.18	20.4	C	L	0.18	20.4	C				
		T	0.76	26.5	C	T	0.78	27.0	C				
	INTERSECTION			44.1	D			44.3	D				
Second Avenue @ East 59th Street	EB	TR (local)	0.18	25.8	C	TR (local)	0.18	25.8	C	TR (local)	0.18	25.9	C
	SB	L (bridge)	1.13	80.3	F	L (bridge)	1.13	80.3	F	L (bridge)	1.13	80.3	F
		LT (local)	0.52	6.0	A	LT (local)	0.53	6.0	A	LT (local)	0.53	6.0	A
	INTERSECTION			67.1	E			68.0	E			66.9	E
Tunnel Exit Street @ East 39th Street	WB	TR	0.71	29.9	C	TR	0.76	32.0	C				
	NB	LT	0.25	11.1	B	LT	0.25	11.1	B				
	INTERSECTION			21.7	C			23.2	C				
Third Avenue @ East 39th Street	WB	TR	0.71	24.3	C	TR	0.77	26.3	C				
	NB	LT	0.63	17.4	B	LT	0.65	17.7	B				
	INTERSECTION			19.5	B			20.5	C				
Third Avenue @ East 42nd Street	EB	L	1.14	137.5	F	L	1.20	156.4	F	L	1.20	156.4	F
		T	1.19	127.9	F	T	1.20	129.2	F	T	1.20	129.2	F
	WB	T	1.21	145.2	F	T	1.23	150.5	F	T	1.23	150.5	F
		R	1.10	138.2	F	R	1.14	149.4	F	R	1.14	149.4	F
	NB	LT	0.89	29.1	C	LT	0.91	30.8	C	LT	0.91	30.8	C
		R	1.39	237.3	F	R	1.41	245.5	F	R	1.41	245.5	F
	INTERSECTION			90.0	F			91.6	F			91.6	F
Third Avenue @ East 43rd Street	WB	TR	0.47	22.6	C	TR	0.48	22.8	C				
	NB	LT	0.76	15.8	B	LT	0.79	16.4	B				
	INTERSECTION			16.8	B			17.3	B				
Third Avenue @ East 44th Street	EB	LT	0.42	23.5	C	LT	0.42	23.5	C				
	NB	T	0.71	14.8	B	T	0.73	15.2	B				
		R	0.79	37.3	D	R	0.82	41.4	D				
INTERSECTION			17.4	B			18.1	B					
Third Avenue @ East 46th Street	EB	L	0.51	39.7	D	L	0.62	43.9	D				
		T	0.26	13.9	B	T	0.28	14.1	B				
	NB	TR	0.94	32.1	C	TR	0.96	35.1	D				
	INTERSECTION			30.1	C			32.7	C				
Third Avenue @ East 49th Street	WB	T	0.75	24.6	C	T	0.83	29.6	C				
		R	0.61	44.7	D	R	0.61	44.7	D				
	NB	LT	0.90	30.5	C	LT	0.93	33.2	C				
	INTERSECTION			30.1	C			33.1	C				
Third Avenue @ East 50th Street	EB	L	0.26	16.8	B	L	0.29	17.3	B				
		T	0.27	16.3	B	T	0.27	16.3	B				
	NB	T	0.70	18.5	B	T	0.72	19.0	B				
		R	0.54	25.5	C	R	0.54	25.5	C				
INTERSECTION			18.5	B			18.9	B					
Third Avenue @ East 51st Street	WB	T	0.48	17.9	B	T	0.53	18.9	B				
		R	0.47	38.8	D	R	0.47	38.8	D				
	NB	LT	0.90	28.6	C	LT	0.94	32.6	C				
	INTERSECTION			27.7	C			31.0	C				
Third Avenue @ East 53rd Street	WB	T	1.02	64.7	E	T	1.03	65.6	E				
		R	0.72	51.8	D	R	0.73	52.8	D				
	NB	LT	0.86	26.7	C	LT	0.88	27.6	C				
	INTERSECTION			37.0	D			37.8	D				
Third Avenue @ East 57th Street	EB	LT	0.93	43.0	D	LT	0.94	44.2	D	LT	0.94	44.2	D
		T	0.88	46.6	D	T	0.88	46.6	D	T	0.88	46.6	D
	WB	R	0.97	86.6	F	R	0.97	87.9	F	R	0.97	87.9	F
		LTR	0.88	28.2	C	LTR	0.89	29.2	C	LTR	0.90	29.4	C
	INTERSECTION			37.5	D			38.2	D			38.4	D
Lexington Avenue @ East 39th Street	WB	L	0.64	51.7	D	L	0.64	51.7	D	L	0.64	51.7	D
		T	0.96	57.7	E	T	1.09	92.8	F	T	0.98	57.7	E
	SB	T	0.85	21.0	C	T	0.86	21.3	C	T	0.94	32.3	C
		R	0.46	17.8	B	R	0.47	18.1	B	R	0.53	24.2	C
INTERSECTION			30.3	C			39.4	D			38.8	D	
Lexington Avenue @ East 46th Street	EB	TR	0.76	33.5	C	TR	0.83	37.6	D				
	SB	LT	0.83	16.1	B	LT	0.85	16.9	B				
	INTERSECTION			20.3	C			22.3	C				
Lexington Avenue @ East 50th Street	EB	TR	0.37	20.5	C	TR	0.39	20.7	C	TR	0.60	25.1	C
	SB	LT	0.84	19.9	B	LT	0.87	21.5	C	LT	0.87	21.5	C
	INTERSECTION			20.0	C			21.3	C			22.4	C



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Lexington Avenue @ East 51st Street	WB	L	0.77	58.5	E	L	0.77	58.0	E				
		T	0.64	26.9	C	T	0.63	26.7	C				
	SB	T	0.73	17.6	B	T	0.75	18.3	B				
		R	0.48	20.8	C	R	0.48	20.8	C				
	INTERSECTION			23.2	C			23.4	C				
Lexington Avenue @ East 53rd Street	WB	LT	0.79	30.4	C	LT	0.80	30.5	C				
		T	0.71	15.8	B	T	0.74	16.3	B				
	SB	R	0.38	13.3	B	R	0.38	13.3	B				
		INTERSECTION			20.9	C			21.2	C			
Park Avenue @ West 39th Street	WB	LTR	1.18	127.1	F	LTR	1.31	178.1	F	LTR	0.68	25.3	C
		LTT	0.00	41.0	D	LTT	0.00	41.1	D	LTT	0.00	41.1	D
	NB	LT	0.54	16.9	B	LT	0.55	17.0	B	LT	0.55	17.0	B
		TR	0.96	37.8	D	TR	0.97	39.5	D	TR	0.97	39.5	D
	INTERSECTION			51.6	D			66.3	E				
Park Avenue @ West 40th Street	EB	LT	0.74	35.8	D	LT	0.78	38.9	D				
		R	0.74	42.0	D	R	0.78	45.3	D				
	NB	(Tunnel Exit)	0.84	27.6	C	(Tunnel Exit)	0.84	27.6	C				
		R onto Viad	0.60	17.6	B	R onto Viad	0.62	17.9	B				
		TR	0.52	16.7	B	TR	0.53	16.7	B				
	SB	T	0.08	10.5	B	T	0.08	10.5	B				
		T (Viaduct Exit)	1.14	95.5	F	T (Viaduct Exit)	1.14	95.9	F				
INTERSECTION			48.4	D			49.0	D					
Park Avenue @ West 46th Street	EB	LT	0.46	19.5	B	LT	0.52	20.5	C				
		R	0.09	15.4	B	R	0.09	15.5	B				
	NB	TR	0.80	26.1	C	TR	0.80	26.1	C				
		LTT	0.00	42.5	D	LTT	0.00	42.5	D				
	INTERSECTION			25.9	C			26.0	C				
Park Avenue @ West 47th Street	WB	LT	0.67	27.7	C	LT	0.72	30.0	C				
		R	0.54	26.2	C	R	0.59	28.6	C				
	NB	LTT	0.00	37.7	D	LTT	0.00	37.8	D				
		T	0.98	44.1	D	T	0.98	45.6	D				
	INTERSECTION			33.7	C			34.8	C				
Park Avenue @ West 48th Street	EB	LT	0.67	28.6	C	LT	0.69	29.5	C				
		R	0.20	18.5	B	R	0.20	18.5	B				
	NB	TR	0.78	23.5	C	TR	0.80	24.1	C				
		LTT	0.00	40.6	D	LTT	0.00	40.8	D				
	INTERSECTION			37.6	D			39.2	D				
Park Avenue @ West 49th Street	WB	LT	0.90	50.0	D	LT	1.04	79.5	E	LT	1.04	79.5	E
		R	0.34	21.5	C	R	0.36	22.1	C	R	0.36	22.1	C
	NB	LTT	0.00	37.5	D	LTT	0.00	37.5	D	LTT	0.00	37.5	D
		T	0.96	39.2	D	T	0.97	41.7	D	T	0.97	41.7	D
	INTERSECTION			33.0	C			38.2	D			38.2	D
Park Avenue @ West 50th Street	EB	LTR	0.45	22.1	C	LTR	0.47	22.5	C				
		TR	0.72	20.4	C	TR	0.73	20.7	C				
	SB	LTT	0.00	40.8	D	LTT	0.00	40.8	D				
		T	1.06	64.4	E	T	1.07	66.6	E				
INTERSECTION			40.4	D			41.3	D					
Park Avenue @ West 51st Street	WB	LT	0.71	32.6	C	LT	0.69	31.4	C				
		R	0.42	26.3	C	R	0.42	26.2	C				
	NB	LTT	0.00	38.6	D	LTT	0.00	38.6	D				
		T	0.92	31.9	C	T	0.94	34.2	C				
	INTERSECTION			29.7	C			30.7	C				
Park Avenue @ West 53rd Street	WB	LTR	0.99	58.5	E	LTR	1.00	59.1	E				
		LTT	0.00	39.4	D	LTT	0.00	39.4	D				
	SB	T	0.96	36.8	D	T	0.98	40.2	D				
		TR	0.77	19.9	B	TR	0.77	20.0	B				
INTERSECTION			34.6	C			36.0	D					
Park Avenue @ West 56th Street	EB	LT	0.79	40.9	D	LT	0.81	42.5	D				
		R	0.27	24.0	C	R	0.28	24.1	C				
	SB	TR	0.79	20.0	B	TR	0.80	20.4	C				
		LTT	0.00	39.8	D	LTT	0.00	39.8	D				
INTERSECTION			41.2	D			42.2	D					

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Park Avenue @ West 57th Street	EB	LT	0.83	34.7	C	LT	0.83	34.8	C	LT	0.86	37.5	D
		R	0.52	27.1	C	R	0.52	27.2	C	R	0.54	28.5	C
	WB	LT	0.66	27.7	C	LT	0.66	26.7	C	LT	0.68	27.9	C
		R	0.54	28.3	C	R	0.54	28.4	C	R	0.56	29.8	C
	NB	Lt†	0.00	38.8	D	Lt†	0.00	38.9	D	Lt†	0.00	39.0	D
		TR	1.04	57.1	E	TR	1.06	63.1	E	TR	1.04	55.0	D
	SB	Lt†	0.00	35.8	D	Lt†	0.00	35.8	D	Lt†	0.00	35.9	D
		TR	0.82	22.3	C	TR	0.82	22.4	C	TR	0.81	21.1	C
	INTERSECTION			35.8	D			37.6	D				
	Vanderbilt Avenue @ East 42nd Street	EB	T	0.67	22.9	C	T	0.68	23.2	C			
WB		T	0.92	37.6	D	T	0.93	39.3	D				
INTERSECTION				31.1	C			32.2	C				
Vanderbilt Avenue @ East 45th Street	WB	LTR	0.52	20.0	B	T	0.52	19.7	B				
	INTERSECTION			19.8	B			19.7	B				
Vanderbilt Avenue @ East 46th Street	EB	LTR	0.49	19.3	B	T	0.54	20.2	C				
	INTERSECTION			18.7	B			20.2	C				
Madison Avenue @ East 39th Street	WB	T	0.98	60.4	E	T	1.00	66.8	E	T	0.90	42.8	D
		R	0.81	71.9	E	R	1.15	154.6	F	R	0.88	72.0	E
	NB	LT	0.90	24.5	C	LT	0.93	27.2	C	L	0.41	21.3	C
										T	0.86	25.1	C
INTERSECTION			36.0	D			46.7	D			32.9	C	
Madison Avenue @ East 40th Street	EB	L	0.62	52.2	D	L	0.74	61.9	E	L	0.69	55.1	E
		T	0.87	43.7	D	T	0.92	50.9	D	T	0.90	46.0	D
	NB	TR	0.90	24.5	C	TR	0.94	29.1	C	TR	0.97	33.7	C
		INTERSECTION			29.9	C			35.4	D			37.4
Madison Avenue @ East 41st Street	EB	L	0.46	44.4	D	L	0.54	47.6	D				
		T	0.30	21.2	C	T	0.30	21.2	C				
	NB	TR	0.87	20.6	C	TR	0.94	26.1	C				
		INTERSECTION			21.8	C			26.8	C			
Madison Avenue @ East 42nd Street	EB	LT	0.75	29.9	C	LT	0.77	30.8	C	LT	0.77	30.8	C
		T	0.93	41.5	D	T	0.94	43.2	D	T	0.94	43.2	D
	WB	R	0.14	19.3	B	R	0.14	19.3	B	R	0.14	19.3	B
		LT	1.17	104.4	F	LT	1.29	153.0	F	LT	0.83	19.3	B
	NB	R	0.41	14.0	B	R	0.42	14.3	B	R	0.42	14.3	B
		INTERSECTION			65.5	E			89.9	F			28.1
Madison Avenue @ East 43rd Street	WB	T	0.46	23.4	C	T	0.24	19.6	B	T	0.25	21.1	C
		R	0.62	32.3	C	R	0.65	33.8	C	R	0.69	38.2	D
	NB	L	0.49	17.7	B	L	0.88	48.3	D	L	0.82	36.9	D
		T	1.02	48.5	D	T	1.07	62.2	E	T	1.02	45.9	D
INTERSECTION			41.6	D			55.2	E			42.6	D	
Madison Avenue @ East 44th Street	EB	LT	0.80	40.9	D	LT	1.25	166.2	F	L	0.92	63.7	E
										T	0.31	20.7	C
	NB	T	1.15	93.8	F	T	1.16	98.3	F	T	1.16	98.3	F
		R	1.02	107.6	F	R	1.71	384.1	F	R	1.71	384.1	F
INTERSECTION			85.8	F			136.0	F			112.2	F	
Madison Avenue @ East 45th Street	WB	TR	0.68	27.1	C	TR	0.72	28.5	C	TR	0.82	36.6	D
		L	0.22	10.8	B	L	0.27	11.4	B	L	0.25	8.6	A
	NB	T	1.05	57.8	E	T	1.14	91.4	F	T	1.05	52.5	D
		INTERSECTION			46.7	D			69.8	E			45.7
Madison Avenue @ East 46th Street	EB	LT	1.09	96.6	F	LT	1.26	160.0	F	LT	0.64	27.9	C
		T	1.17	103.4	F	T	1.25	139.1	F	T	1.18	103.2	F
	NB	R	0.41	14.3	B	R	0.53	17.5	B	R	0.49	13.9	B
		INTERSECTION			95.3	F			134.4	F			76.7
Madison Avenue @ East 47th Street	WB	T	0.80	35.7	D	T	1.24	150.0	F	T	0.65	26.5	C
		R	0.46	42.3	D	R	0.35	38.8	D	R	0.44	45.8	D
	NB	L	0.53	22.2	C	L	0.69	32.2	C	L	0.35	12.1	B
		T	1.15	94.7	F	T	1.21	122.9	F	T	1.13	87.3	F
INTERSECTION			76.0	E			122.3	F			64.6	E	
Madison Avenue @ East 49th Street	WB	TR	0.54	23.5	C	TR	0.58	24.3	C	TR	0.61	26.6	C
		L	0.23	11.0	B	L	0.23	11.0	B	L	0.22	9.6	A
	NB	T	1.08	66.7	E	T	1.12	83.2	F	T	1.08	63.3	E
		INTERSECTION			53.2	D			64.6	E			51.2
Madison Avenue @ East 51st Street	WB	T	0.78	34.2	C	T	0.78	34.0	C	T	0.78	34.0	C
		R	0.65	52.7	D	R	0.65	52.7	D	R	0.65	52.7	D
	NB	L	0.52	21.9	C	L	0.52	21.9	C	L	0.52	21.9	C
		T	1.24	134.1	F	T	1.29	154.0	F	T	1.29	154.0	F
INTERSECTION			104.6	F			119.5	F			119.5	F	
Madison Avenue @ East 53rd Street	WB	TR	0.83	33.7	C	TR	0.83	33.6	C	TR	0.89	39.7	D
		L	0.23	10.7	B	L	0.23	10.7	B	L	0.22	9.3	A
	NB	T	1.20	113.9	F	T	1.24	132.8	F	T	1.19	108.6	F
		INTERSECTION			82.6	F			95.2	F			81.7

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Madison Avenue @ East 57th Street	EB	LT	0.80	31.5	C	LT	0.80	31.6	C	LT	0.83	33.8	C	
	WB	T	0.69	26.8	C	T	0.69	26.9	C	T	0.71	28.2	C	
		R	0.73	36.8	D	R	0.73	36.8	D	R	0.75	39.7	D	
	NB	L	0.41	14.2	B	L	0.41	14.3	B	L	0.40	13.4	B	
		T	1.01	43.9	D	T	1.05	56.2	E	T	1.03	48.0	D	
	R	0.38	14.0	B	R	0.38	14.0	B	R	0.37	13.1	B		
INTERSECTION			34.5	C			39.9	D			37.3	D		
Fifth Avenue @ 42nd Street	EB	T	0.64	25.5	C	T	0.65	25.9	C	T	0.65	25.9	C	
	R	0.17	20.6	C	R	0.17	20.6	C	R	0.17	20.6	C		
	WB	LT	1.01	58.6	E	LT	1.02	62.1	E	LT	1.02	62.1	E	
	SB	LT	1.16	96.3	F	LT	1.19	109.1	F	LT	1.19	109.1	F	
	R	0.05	9.3	A	R	0.05	9.3	A	R	0.05	9.3	A		
	INTERSECTION			74.9	E			83.4	F			83.4	F	
Fifth Avenue @ 43rd Street	WB	L	0.60	30.5	C	L	0.41	24.0	C	L	0.41	24.0	C	
	T	0.35	21.3	C	T	0.29	20.4	C	T	0.29	20.4	C		
	SB	T	1.08	61.3	E	T	1.14	85.7	F	T	1.14	85.7	F	
	R	1.36	204.7	F	R	1.69	349.4	F	R	1.69	349.4	F		
	INTERSECTION			73.1	E			115.6	F			115.6	F	
	Fifth Avenue @ 44th Street	EB	T	0.33	21.1	C	T	0.46	23.6	C	TR	0.46	23.6	C
R		0.63	31.3	C	R	0.66	33.3	C	R	0.66	33.3	C		
SB		LT	1.27	143.4	F	LT	1.46	227.0	F	LT	1.46	227.0	F	
INTERSECTION				128.3	F			199.8	F			199.8	F	
Fifth Avenue @ 45th Street		WB	LT	0.62	25.3	C	LT	0.70	28.2	C	LT	0.78	33.7	C
		SB	T	1.11	74.4	E	T	1.20	110.6	F	T	1.12	76.6	E
	R	0.46	14.9	B	R	0.73	24.6	C	R	0.68	19.1	B		
	INTERSECTION			61.3	E			88.1	F			63.7	E	
	Fifth Avenue @ 46th Street	EB	TR	1.21	144.0	F	TR	1.29	174.2	F	TR	1.29	174.2	F
		SB	LT	1.27	140.9	F	LT	1.48	236.2	F	LT	1.48	236.2	F
INTERSECTION				141.4	F			226.6	F			226.6	F	
Fifth Avenue @ 47th Street		WB	L	0.73	52.9	D	L	1.72	377.1	F	L	1.72	377.1	F
		T	0.65	26.3	C	T	0.69	27.8	C	T	0.69	27.8	C	
		SB	T	1.23	128.4	F	T	1.29	156.6	F	T	1.29	156.6	F
	R	0.78	41.7	D	R	0.79	42.2	D	R	0.79	42.2	D		
	INTERSECTION			106.6	F			164.1	F			164.1	F	
	Fifth Avenue @ 48th Street	EB	T	0.61	24.9	C	T	0.63	25.3	C	T	0.63	25.3	C
R		1.13	142.2	F	R	1.13	142.2	F	R	1.13	142.2	F		
SB		LT	1.28	151.2	F	LT	1.35	179.8	F	LT	1.35	179.8	F	
INTERSECTION				135.7	F			159.5	F			159.5	F	
Fifth Avenue @ 49th Street		WB	LT	0.46	21.9	C	LT	0.50	22.6	C	LT	0.54	24.5	C
		SB	T	1.07	59.7	E	T	1.11	75.3	E	T	1.06	55.3	E
	R	0.37	13.5	B	R	0.37	13.5	B	R	0.35	11.7	B		
	INTERSECTION			50.8	D			62.8	E			47.7	D	
	Fifth Avenue @ 50th Street	EB	TR	0.44	21.8	C	TR	0.45	22.0	C	TR	0.48	23.8	C
		SB	LT	1.15	89.5	F	LT	1.19	107.5	F	LT	1.14	84.3	F
INTERSECTION				79.3	E			94.8	F			75.2	E	
Fifth Avenue @ 51st Street		WB	L	0.67	49.5	D	L	0.69	50.3	D	L	0.69	50.3	D
		T	0.65	26.0	C	T	0.64	25.7	C	T	0.64	25.7	C	
		SB	T	1.15	94.6	F	T	1.19	113.4	F	T	1.19	113.4	F
	R	0.94	67.5	E	R	0.94	67.5	E	R	0.94	67.5	E		
	INTERSECTION			81.3	F			95.9	F			95.9	F	
	Fifth Avenue @ 52nd Street	EB	T	0.57	23.1	C	T	0.58	23.2	C	T	0.58	23.2	C
R		0.78	58.4	E	R	0.78	58.4	E	R	0.78	58.4	E		
SB		LT	1.35	179.8	F	LT	1.39	199.4	F	LT	1.39	199.4	F	
INTERSECTION				152.4	F			169.0	F			169.0	F	
Fifth Avenue @ 53rd Street		WB	LT	0.74	28.8	C	LT	0.74	28.8	C	LT	0.79	32.4	C
		SB	T	1.04	48.6	D	T	1.08	62.5	E	T	1.03	44.7	D
	R	0.32	12.2	B	R	0.32	12.2	B	R	0.31	10.6	B		
	INTERSECTION			42.0	D			52.2	D			40.2	D	
	Fifth Avenue @ 54th Street	EB	TR	0.54	23.6	C	TR	0.54	23.6	C	TR	0.58	25.7	C
		SB	LT	1.15	92.4	F	LT	1.19	109.1	F	LT	1.14	85.8	F
INTERSECTION				80.1	F			94.2	F			75.3	E	
Fifth Avenue @ 56th Street		EB	T	0.60	27.7	C	T	0.62	28.2	C	T	0.65	31.2	C
		R	0.51	26.2	C	R	0.51	26.2	C	R	0.55	29.3	C	
		SB	LT	1.22	122.4	F	LT	1.26	139.8	F	LT	1.21	114.6	F
	INTERSECTION			107.1	F			122.0	F			101.3	F	
	Fifth Avenue @ 57th Street	EB	T	0.72	27.7	C	T	0.72	27.7	C	T	0.72	27.7	C
		R	0.96	68.0	E	R	0.97	69.4	E	R	0.97	69.4	E	
WB		LT	0.92	42.4	D	LT	0.93	43.0	D	LT	0.93	43.0	D	
SB		LT	1.02	41.3	D	LT	1.05	52.8	D	LT	1.05	52.8	D	
R		0.28	11.9	B	R	0.28	11.9	B	R	0.28	11.9	B		
INTERSECTION				40.4	D			46.6	D			46.6	D	

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Signalized Intersection	Approach	2033 No-Action				Modified Proposal Alternative				Modified Proposal Alternative w/ Mitigation			
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
Fifth Avenue @ 59th Street	EB	T	0.45	19.9	B	T	0.45	19.9	B	T	0.45	19.9	B
		R	1.12	131.9	F	R	1.12	131.9	F	R	1.12	131.9	F
	SB	LT	1.61	301.4	F	LT	1.68	331.7	F	LT	1.68	331.7	F
		INTERSECTION		229.0	F			252.6	F			252.6	F
Sixth Avenue @ West 40th Street	EB	L	0.80	42.4	D	L	0.85	47.2	D	L	0.85	47.2	D
		T	0.77	34.8	C	T	0.84	40.2	D	T	0.84	40.2	D
	NB	TR	1.11	79.7	E	TR	1.13	87.8	F	TR	1.13	87.8	F
		INTERSECTION		70.0	E			76.9	E			76.9	E
Sixth Avenue @ West 42nd Street	EB	LT	0.68	30.0	C	LT	0.70	30.5	C	LT	0.68	29.1	C
		T	0.80	34.2	C	T	0.80	34.3	C	T	0.77	32.3	C
	WB	R	1.26	174.0	F	R	1.31	193.6	F	R	1.26	175.8	F
		LTR	0.64	10.8	B	LTR	0.64	10.9	B	LTR	0.66	11.8	B
INTERSECTION		32.0	C			34.2	C			32.5	C		
Sixth Avenue @ West 44th Street	EB	L	0.39	27.7	C	L	0.39	27.7	C				
		T	0.49	27.3	C	T	0.62	31.2	C				
	NB	TR	0.65	11.0	B	TR	0.66	11.1	B				
		INTERSECTION		12.9	B			13.7	B				
Sixth Avenue @ West 45th Street	WB	T	0.76	34.8	C	T	0.78	35.7	D	T	0.79	36.8	D
		R	0.59	29.7	C	R	0.63	31.7	C	R	0.62	31.1	C
	NB	LT	0.71	14.8	B	LT	0.71	14.9	B	LT	0.71	14.9	B
		INTERSECTION		18.6	B			19.1	B			19.2	B
Sixth Avenue @ West 46th Street	EB	L	0.41	37.6	D	L	0.41	37.6	D				
		T	0.40	18.5	B	T	0.45	19.5	B				
	NB	TR	0.79	21.3	C	TR	0.81	22.0	C				
		INTERSECTION		21.8	C			22.4	C				
Route 9A @ West 51st Street	WB	L	0.43	60.4	E	L	0.43	60.4	E				
		R	0.58	65.8	E	R	0.57	65.4	E				
	NB	T	0.75	16.6	B	T	0.76	16.7	B				
		SB	T	0.85	15.2	B	T	0.86	15.6	B			
INTERSECTION		17.5	B			17.7	B						
Route 9A @ West 52nd Street	EB	LTR	1.32	219.4	F	LTR	1.32	219.4	F				
		TR	0.98	43.0	D	TR	0.99	44.6	D				
	SB	L	0.05	58.0	E	L	0.06	58.2	E				
		T	0.85	15.6	B	T	0.86	16.1	B				
INTERSECTION		45.8	D			46.5	D						
Route 9A @ West 54th Street	WB	R	0.22	47.7	D	R	0.22	47.7	D				
		TR	0.85	19.3	B	TR	0.86	19.5	B				
	SB	L	0.53	55.9	E	L	0.53	55.9	E				
		T	0.72	14.6	B	T	0.73	14.8	B				
INTERSECTION		18.2	B			18.4	B						
Route 9A @ West 55th Street	WB	LT	0.83	83.2	F	LT	0.83	83.2	F				
		R	0.32	53.7	D	R	0.32	53.8	D				
	NB	L	0.31	79.7	E	L	0.31	79.7	E				
		T	0.65	11.4	B	T	0.65	11.5	B				
INTERSECTION		29.5	C			31.3	C						
Route 9A @ West 55th Street - Service Rd	NB	T	0.43	9.3	A	T	0.43	9.3	A				
		SB	T	0.05	10.1	B	T	0.05	10.1	B			
	INTERSECTION		9.4	A			9.4	A					
Route 9A @ West 56th Street	NB	T	1.09	88.6	F	T	1.10	92.2	F	T	1.08	85.3	F
		L	0.37	27.1	C	L	0.37	27.2	C	L	0.38	27.8	C
	SB	T	0.67	1.2	A	T	0.67	1.3	A	T	0.67	1.3	A
		INTERSECTION		38.3	D			39.7	D			36.9	D
Route 9A @ West 56th Street - Service Rd	EB	L	0.09	23.0	C	L	0.09	23.0	C				
		T	0.60	33.7	C	T	0.61	33.9	C				
	NB	TR	0.45	29.3	C	TR	0.45	29.3	C				
		INTERSECTION		30.9	C			31.0	C				

Unsignalized Intersection	Approach	AM Existing				AM Existing				AM Existing			
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
First Avenue @ East 48th Street	EB	L	0.92	65.3	F	L	0.93	67.8	F				
		INTERSECTION		65.3	F			67.8	F				
Vanderbilt Avenue @ East 43rd Street	SB	R	0.37	10.2	B	R	0.27	9.6	A				
		INTERSECTION		10.2	B			9.6	A				
Vanderbilt Avenue @ East 44th Street	EB	LR	0.00	9.2	A	R	0.00	7.6	A				
		INTERSECTION		9.2	A			7.6	A				
Vanderbilt Avenue @ East 47th Street	WB	T	0.00	11.8	B	T	0.00	19.0	C				
		INTERSECTION		10.8	B			19.0	C				

Notes:  
 †† To mimic actual conditions for NB/SB left turning vehicles on Park Avenue, the sum of two delays were accounted for: (1) delay from making the left turn; and (2) delay from waiting at the red light after the left  
 Shading denotes locations with no significant adverse impacts.  
 Locations with no significant adverse impacts under the proposed action were not analyzed for Lower Density Alternative conditions.  
 Source: Parsons Brinckerhoff, Inc. 2013

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Level of Service Table - 2033 Modified Proposal Alternative Conditions (Midday Peak Hour)

Signalized Intersection	Approach	2033 No-Action				Modified Proposal Alternative				Modified Proposal Alternative w/ Mitigation			
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
First Avenue @ East 42nd Street	EB	LT (east)	0.96	54.8	D	LT (east)	0.97	58.0	E	LT (east)	0.97	58.0	E
		L (west)	0.93	72.7	E	L (west)	0.94	74.8	E	L (west)	0.94	74.8	E
		T (west)	0.64	28.0	C	T (west)	0.65	28.2	C	T (west)	0.65	28.2	C
	WB	TR (east)	0.52	25.5	C	TR (east)	0.53	25.6	C	TR (east)	0.53	25.6	C
		R (east)	0.58	30.5	C	R (east)	0.59	30.8	C	R (east)	0.59	30.8	C
		TR (west)	0.40	23.5	C	TR (west)	0.40	23.6	C	TR (west)	0.40	23.6	C
	NB	LT (east)	0.51	17.6	B	LT (east)	0.51	17.6	B	LT (east)	0.51	17.6	B
		R (east)	0.29	14.7	B	R (east)	0.29	14.7	B	R (east)	0.29	14.6	B
		L (west)	0.37	15.6	B	L (west)	0.37	15.6	B	L (west)	0.37	15.6	B
		T (west)	0.40	16.2	B	T (west)	0.41	16.2	B	T (west)	0.41	16.2	B
	INTERSECTION			31.0	C			31.7	C			31.7	C
	First Avenue @ East 46th Street	EB	L	1.00	67.4	E	L	1.07	88.6	F	L	0.98	59.5
NB		T	0.64	14.3	B	T	0.65	14.3	B	T	0.69	17.5	B
INTERSECTION				28.4	C			35.0	D			29.2	C
First Avenue @ East 47th Street	WB	TR (east)	0.00	16.8	B	TR (east)	0.00	16.8	B				
		TR (west)	0.00	16.8	B	TR (west)	0.00	16.8	B				
	NB	L (west)	0.45	13.8	B	L (west)	0.46	13.9	B				
		T (west)	0.59	15.7	B	T (west)	0.60	15.9	B				
	INTERSECTION			19.0	B			17.6	B				
First Avenue @ East 48th Street	NB	T	0.51	13.6	B	T	0.52	13.7	B				
		R	0.89	31.5	C	R	0.93	36.9	D				
	INTERSECTION			24.0	C			27.3	C				
Second Avenue @ East 39th Street	WB	LT	0.36	23.2	C	LT	0.37	23.3	C				
	SB	TR	0.82	14.1	B	TR	0.83	14.5	B				
INTERSECTION			15.0	B			15.4	B					
Second Avenue @ East 40th Street	EB	TR	0.41	24.0	C	TR	0.43	24.2	C				
	SB	LT	0.78	13.1	B	LT	0.79	13.3	B				
	INTERSECTION			14.4	B			14.6	B				
Second Avenue @ East 42nd Street	EB	T	0.41	23.1	C	T	0.41	23.1	C	T	0.41	23.1	C
		R	1.22	155.5	F	R	1.28	180.0	F	R	1.28	180.0	F
	WB	LT	0.88	42.3	D	LT	0.90	44.5	D	LT	0.90	44.5	D
	SB	L	0.90	41.6	D	L	0.93	47.0	D	L	0.93	47.0	D
		TR	1.01	41.2	D	TR	1.03	46.8	D	TR	1.03	46.8	D
	INTERSECTION			49.1	D			55.4	E			55.4	E
Second Avenue @ East 43rd Street	WB	LT	0.28	23.5	C	LT	0.28	23.6	C				
	SB	TR	0.87	15.8	B	TR	0.89	16.8	B				
	INTERSECTION			16.1	B			17.0	B				
Second Avenue @ East 44th Street	EB	TR	0.95	72.1	E	TR	1.00	84.0	F	TR	0.96	73.4	E
	SB	LT	0.82	11.0	B	LT	0.83	11.3	B	LT	0.84	12.5	B
	INTERSECTION			16.1	B			17.6	B			17.8	B
Second Avenue @ East 45th Street	WB	LT	0.74	44.6	D	LT	0.74	44.6	D				
	SB	TR	0.85	12.0	B	TR	0.87	12.5	B				
	INTERSECTION			14.1	B			14.5	B				
Second Avenue @ East 46th Street	EB	T	0.57	31.6	C	T	0.65	33.9	C	T	0.60	30.8	C
		R	1.17	141.4	F	R	1.26	176.0	F	R	1.17	136.2	F
	SB	LT	0.80	10.5	B	LT	0.80	10.6	B	LT	0.83	12.9	B
	INTERSECTION			23.8	C			28.1	C			26.0	C
Second Avenue @ East 49th Street	WB	LT	1.03	77.0	E	LT	1.06	86.2	F	LT	1.02	71.2	E
	SB	TR	0.87	16.7	B	TR	0.89	17.3	B	TR	0.91	19.2	B
	INTERSECTION			28.0	C			30.4	C			29.0	C
Second Avenue @ East 51st Street	WB	LT	0.80	42.1	D	LT	0.80	41.9	D				
	SB	TR	0.89	16.6	B	TR	0.90	17.3	B				
	INTERSECTION			19.2	B			19.8	B				
Second Avenue @ East 52nd Street	EB	TR	1.00	77.1	E	TR	1.00	78.6	E				
	SB	LT	0.84	14.5	B	LT	0.85	14.9	B				
	INTERSECTION			21.3	C			21.8	C				
Second Avenue @ East 53rd Street	WB	LT	0.85	41.1	D	LT	0.85	41.3	D				
	SB	TR	0.87	19.0	B	TR	0.88	19.6	B				
	INTERSECTION			23.2	C			23.7	C				
Second Avenue @ East 56th Street	EB	T	0.53	28.8	C	T	0.53	28.9	C				
		R	0.55	30.2	C	R	0.55	30.2	C				
	SB	LT	0.69	10.8	B	LT	0.70	10.9	B				
	INTERSECTION			13.7	B			13.8	B				
Second Avenue @ East 57th Street	EB	T	0.79	29.6	C	T	0.81	30.2	C				
		R	0.54	41.5	D	R	0.54	41.5	D				
	WB	DefL	0.27	32.0	C	DefL	0.27	32.0	C				
		T	0.40	21.3	C	T	0.40	21.3	C				
	SB	L	0.24	16.9	B	L	0.24	16.9	B				
		TR	1.01	44.8	D	TR	1.03	49.0	D				
INTERSECTION			38.9	D			41.8	D					

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Signalized Intersection	Approach	2033 No-Action				Modified Proposal Alternative				Modified Proposal Alternative w/ Mitigation			
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
Second Avenue @ East 59th Street	EB	TR (local)	0.46	26.8	C	TR (local)	0.46	26.8	C	TR (local)	0.48	27.4	C
	SB	L (bridge)	1.08	68.2	E	L (bridge)	1.08	68.2	E	L (bridge)	1.08	68.2	E
		LT (local)	0.69	11.5	B	LT (local)	0.71	11.7	B	LT (local)	0.71	11.7	B
	INTERSECTION			27.7	C			27.8	C			27.7	C
Tunnel Exit Street @ East 39th Street	WB	TR	0.52	25.6	C	TR	0.53	25.9	C				
	NB	LT	0.20	10.7	B	LT	0.21	10.8	B				
	INTERSECTION			18.8	B			19.1	B				
Third Avenue @ East 39th Street	WB	TR	0.42	18.2	B	TR	0.44	18.5	B				
	NB	LT	0.69	18.4	B	LT	0.70	18.6	B				
	INTERSECTION			18.4	B			18.6	B				
Third Avenue @ East 42nd Street	EB	L	1.19	158.7	F	L	1.18	157.0	F	L	1.18	157.0	F
		T	0.87	38.7	D	T	0.88	40.0	D	T	0.86	36.7	D
	WB	T	0.95	59.8	E	T	0.96	61.6	E	T	0.92	53.0	D
		R	1.08	130.1	F	R	1.15	154.0	F	R	1.09	132.4	F
	NB	LT	0.92	31.4	C	LT	0.94	32.7	C	LT	0.96	37.4	D
		R	0.73	36.0	D	R	0.75	37.9	D	R	0.78	41.3	D
	INTERSECTION			49.5	D			51.8	D			51.8	D
Third Avenue @ East 43rd Street	WB	TR	0.43	22.0	C	TR	0.46	22.5	C				
	NB	LT	0.72	15.0	B	LT	0.74	15.2	B				
	INTERSECTION			15.8	B			16.1	B				
Third Avenue @ East 44th Street	EB	LT	0.32	21.3	C	LT	0.32	21.3	C	LT	0.33	22.2	C
	NB	T	0.68	14.2	B	T	0.69	14.5	B	T	0.68	13.5	B
		R	0.92	62.7	E	R	0.96	71.4	E	R	0.93	61.8	E
	INTERSECTION			18.8	B			19.8	B			18.1	B
Third Avenue @ East 46th Street	EB	L	0.31	34.4	C	L	0.41	36.6	D				
		T	0.30	14.3	B	T	0.34	14.8	B				
	NB	TR	0.93	31.0	C	TR	0.95	32.8	C				
	INTERSECTION			28.5	C			30.0	C				
Third Avenue @ East 49th Street	WB	T	0.54	17.8	B	T	0.56	18.2	B				
		R	0.42	37.7	D	R	0.42	37.7	D				
	NB	LT	0.94	34.0	C	LT	0.97	37.2	D				
	INTERSECTION			31.9	C			34.6	C				
Third Avenue @ East 50th Street	EB	L	0.46	20.7	C	L	0.48	21.4	C				
		T	0.27	16.3	B	T	0.28	16.4	B				
	NB	T	0.69	18.3	B	T	0.71	18.6	B				
	INTERSECTION			18.5	B			18.8	B				
Third Avenue @ East 51st Street	WB	T	0.42	16.8	B	T	0.43	16.9	B				
		R	0.46	38.9	D	R	0.46	38.9	D				
	NB	LT	0.93	31.0	C	LT	0.93	31.3	C				
	INTERSECTION			29.8	C			30.1	C				
Third Avenue @ East 53rd Street	WB	T	0.51	18.7	B	T	0.52	18.7	B				
		R	0.61	44.4	D	R	0.61	44.4	D				
	NB	LT	0.91	29.1	C	LT	0.93	30.7	C				
	INTERSECTION			28.7	C			30.0	C				
Third Avenue @ East 57th Street	EB	LT	1.06	71.4	E	LT	1.06	73.9	E	LT	1.06	73.9	E
	WB	T	0.59	31.6	C	T	0.59	31.6	C	T	0.59	31.6	C
		R	0.47	33.8	C	R	0.47	33.8	C	R	0.47	33.8	C
	NB	LTR	0.87	29.1	C	LTR	0.89	30.2	C	LTR	0.90	30.7	C
		R	0.89	70.1	E	R	0.92	75.0	E	R	0.90	71.1	E
	INTERSECTION			42.5	D			44.0	D			44.0	D
Lexington Avenue @ East 39th Street	WB	L	0.51	44.2	D	L	0.51	44.2	D				
		T	0.76	33.0	C	T	0.80	35.9	D				
	SB	T	0.74	17.2	B	T	0.75	17.3	B				
	INTERSECTION			22.9	C			23.8	C				
Lexington Avenue @ East 46th Street	EB	TR	0.54	26.2	C	TR	0.62	28.0	C				
	SB	LT	0.83	16.1	B	LT	0.85	16.8	B				
	INTERSECTION			18.3	B			19.5	B				
Lexington Avenue @ East 50th Street	EB	TR	0.26	19.1	B	TR	0.27	19.2	B	TR	0.41	21.2	C
	SB	LT	0.85	20.4	C	LT	0.88	21.7	C	LT	0.88	21.7	C
	INTERSECTION			20.1	C			21.2	C			21.6	C
Lexington Avenue @ East 51st Street	WB	L	0.94	83.0	F	L	0.95	85.8	F				
		T	0.49	22.8	C	T	0.50	23.0	C				
	SB	T	0.73	17.7	B	T	0.75	18.1	B				
	INTERSECTION			19.8	B			19.8	B				
Lexington Avenue @ East 53rd Street	WB	LT	0.44	21.5	C	LT	0.44	21.5	C				
	SB	T	0.75	16.5	B	T	0.76	16.9	B				
		R	0.22	10.9	B	R	0.22	10.9	B				
	INTERSECTION			17.5	B			17.8	B				

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		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
Park Avenue @ West 39th Street	WB	LTR	1.30	177.5	F	LTR	1.35	196.9	F	LTR	0.70	27.3	C
	NB	Lt†	0.00	39.6	D	Lt†	0.00	39.6	D	Lt†	0.00	39.6	D
		LT	0.44	15.4	B	LT	0.44	15.4	B	LT	0.44	15.4	B
	SB	TR	0.88	28.4	C	TR	0.89	29.5	C	TR	0.89	29.5	C
	INTERSECTION			62.9	E			69.5	E			25.4	C
Park Avenue @ West 40th Street	EB	LT	0.68	32.4	C	LT	0.70	33.7	C	LT	0.73	35.8	D
		R	0.31	24.1	C	R	0.34	24.8	C	R	0.36	26.0	C
	NB	T (Tunnel Exit)	0.88	31.8	C	T (Tunnel Exit)	0.88	31.8	C	T (Tunnel Exit)	0.87	29.2	C
		T (SR onto Viaduct)	0.50	15.4	B	T (SR onto Viaduct)	0.50	15.4	B	T (SR onto Viaduct)	0.49	14.6	B
		TR	0.44	15.0	B	TR	0.44	15.0	B	TR	0.43	14.2	B
	SB	T	0.08	10.4	B	T	0.08	10.4	B	T	0.08	9.9	A
		T (Viaduct Exit)	1.13	90.8	F	T (Viaduct Exit)	1.14	95.5	F	T (Viaduct Exit)	1.11	85.8	F
	INTERSECTION			47.7	D			49.5	D			45.5	D
Park Avenue @ West 46th Street	EB	LT	0.48	19.8	B	LT	0.58	21.5	C				
		R	0.19	16.9	B	R	0.21	17.3	B				
	NB	TR	0.77	25.0	C	TR	0.77	25.1	C				
	SB	Lt†	0.00	39.2	D	Lt†	0.00	39.4	D				
		T	0.74	24.5	C	T	0.74	24.6	C				
INTERSECTION			24.2	C			24.5	C					
Park Avenue @ West 47th Street	WB	LT	0.52	23.0	C	LT	0.62	25.8	C				
		R	0.38	21.6	C	R	0.45	23.6	C				
	NB	Lt†	0.00	38.8	D	Lt†	0.00	39.2	D				
		T	0.93	36.7	D	T	0.95	39.3	D				
	SB	TR	0.75	23.4	C	TR	0.76	23.6	C				
INTERSECTION			29.2	C			30.7	C					
Park Avenue @ West 48th Street	EB	LT	0.80	36.2	D	LT	0.83	38.8	D				
		R	0.14	17.6	B	R	0.15	17.8	B				
	NB	TR	0.72	21.8	C	TR	0.75	22.5	C				
	SB	Lt†	0.00	40.3	D	Lt†	0.00	40.8	D				
		T	0.94	37.0	D	T	0.95	37.9	D				
INTERSECTION			30.4	C			31.4	C					
Park Avenue @ West 49th Street	WB	LT	0.96	59.5	E	LT	1.01	73.6	E	LT	1.01	73.6	E
		R	0.42	23.2	C	R	0.47	24.9	C	R	0.47	24.9	C
	NB	Lt†	0.00	37.9	D	Lt†	0.00	37.9	D	Lt†	0.00	37.9	D
		T	0.91	32.5	C	T	0.94	35.6	D	T	0.94	35.6	D
	SB	TR	0.73	21.2	C	TR	0.73	21.4	C	TR	0.73	21.4	C
	INTERSECTION			30.9	C			34.2	C			34.2	C
Park Avenue @ West 50th Street	EB	LTR	0.51	23.2	C	LTR	0.53	23.5	C				
	NB	TR	0.69	19.8	B	TR	0.71	20.2	C				
	SB	Lt†	0.00	38.5	D	Lt†	0.00	38.5	D				
		T	0.89	29.4	C	T	0.89	29.7	C				
	INTERSECTION			24.6	C			24.9	C				
Park Avenue @ West 51st Street	WB	LT	0.54	26.0	C	LT	0.54	26.0	C				
		R	0.35	24.1	C	R	0.39	24.9	C				
	NB	Lt†	0.00	38.3	D	Lt†	0.00	38.3	D				
		T	0.92	32.4	C	T	0.95	36.5	D				
	SB	TR	0.76	21.0	C	TR	0.76	21.0	C				
INTERSECTION			26.6	C			28.4	C					
Park Avenue @ West 53rd Street	WB	LTR	0.71	30.2	C	LTR	0.71	30.4	C				
		Lt†	0.00	37.9	D	Lt†	0.00	37.9	D				
	NB	T	0.90	28.0	C	T	0.92	30.9	C				
		TR	0.65	17.0	B	TR	0.65	17.1	B				
	INTERSECTION			24.1	C			25.4	C				
Park Avenue @ West 56th Street	EB	LT	0.87	47.7	D	LT	0.87	48.3	D				
		R	0.38	26.6	C	R	0.39	26.9	C				
	NB	TR	0.77	19.6	B	TR	0.79	20.3	C				
	SB	Lt†	0.00	40.3	D	Lt†	0.00	40.3	D				
		T	0.82	22.6	C	T	0.83	22.8	C				
INTERSECTION			24.7	C			25.1	C					
Park Avenue @ West 57th Street	EB	LT	0.78	30.9	C	LT	0.78	30.9	C				
		R	0.62	32.8	C	R	0.62	33.1	C				
	WB	LT	0.55	24.3	C	LT	0.55	24.3	C				
		R	0.51	27.8	C	R	0.52	28.0	C				
	NB	Lt†	0.00	40.2	D	Lt†	0.00	40.4	D				
		TR	0.94	33.9	C	TR	0.97	38.9	D				
	SB	Lt†	0.00	36.8	D	Lt†	0.00	36.8	D				
		TR	1.03	53.3	D	TR	1.03	54.2	D				
INTERSECTION			38.3	D			40.0	D					

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		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
Vanderbilt Avenue @ East 42nd Street	EB	T	0.67	17.3	B	T	0.67	17.3	B				
	WB	T	0.66	17.2	B	T	0.67	17.3	B				
	INTERSECTION			17.2	B			17.3	B				
Vanderbilt Avenue @ East 45th Street	WB	LTR	0.47	19.1	B	T	0.42	18.2	B				
	INTERSECTION			18.3	B			18.2	B				
Vanderbilt Avenue @ East 46th Street	EB	LTR	0.44	18.5	B	T	0.59	20.9	C				
	INTERSECTION			18.4	B			20.9	C				
Madison Avenue @ East 39th Street	WB	T	0.85	39.7	D	T	0.87	41.7	D	T	0.87	41.4	D
		R	1.05	121.9	F	R	1.19	166.6	F	R	1.07	122.6	F
	NB	LT	0.86	21.6	C	LT	0.87	22.4	C	L	0.54	23.9	C
										T	0.73	17.4	B
	INTERSECTION			33.8	C			39.6	D			32.6	C
Madison Avenue @ East 40th Street	EB	L	0.55	46.7	D	L	0.61	49.5	D				
		T	0.59	26.2	C	T	0.64	27.7	C				
	NB	TR	0.84	20.2	C	TR	0.86	21.4	C				
		INTERSECTION			22.6	C			24.0	C			
Madison Avenue @ East 41st Street	EB	L	0.43	41.1	D	L	0.46	42.0	D				
		T	0.27	19.4	B	T	0.27	19.4	B				
	NB	TR	0.88	22.4	C	TR	0.91	24.7	C				
		INTERSECTION			23.2	C			25.2	C			
Madison Avenue @ East 42nd Street	EB	LT	0.85	35.0	C	LT	0.85	35.1	D	LT	0.85	35.1	D
		T	0.84	33.2	C	T	0.85	33.8	C	T	0.85	33.8	C
	WB	R	0.08	18.0	B	R	0.08	18.0	B	R	0.08	18.0	B
		NB	LT	1.10	74.5	E	LT	1.15	94.3	F	LT	0.78	17.5
	R		0.41	13.9	B	R	0.42	14.3	B	R	0.42	14.3	B
	INTERSECTION			50.7	D			60.1	E			25.7	C
Madison Avenue @ East 43rd Street	WB	T	0.54	25.4	C	T	0.52	25.0	C				
		R	0.72	37.6	D	R	0.79	43.9	D				
	NB	L	0.43	17.0	B	L	0.69	32.1	C				
		T	0.97	34.8	C	T	0.99	39.7	D				
	INTERSECTION			32.8	C			37.8	D				
Madison Avenue @ East 44th Street	EB	LT	0.97	64.5	E	LT	1.68	343.1	F	L	0.98	79.3	E
										T	0.82	42.1	D
	NB	T	1.08	65.5	E	T	1.12	82.8	F	T	1.05	54.3	D
		R	0.83	51.9	D	R	0.95	85.6	F	R	0.81	49.8	D
	INTERSECTION			64.3	E			157.3	F			55.0	D
Madison Avenue @ East 45th Street	WB	TR	0.53	23.4	C	TR	0.57	24.2	C	TR	0.57	24.2	C
		L	0.18	10.4	B	L	0.21	10.8	B	L	0.21	10.8	B
	NB	T	1.02	47.0	D	T	1.18	105.3	F	T	1.18	105.3	F
		INTERSECTION			39.8	D			83.1	F			83.1
Madison Avenue @ East 46th Street	EB	LT	0.91	48.8	D	LT	1.06	83.4	F	LT	0.54	25.3	C
		T	1.14	90.5	F	T	1.23	126.1	F	T	1.15	91.3	F
	NB	R	0.20	10.9	B	R	0.54	18.0	B	R	0.49	14.1	B
		INTERSECTION			77.9	E			107.4	F			69.5
Madison Avenue @ East 47th Street	WB	T	0.92	48.7	D	T	1.21	138.3	F	T	0.60	23.9	C
		R	0.22	35.8	D	R	0.24	36.4	D	R	0.26	37.8	D
	NB	L	0.52	24.9	C	L	1.54	300.9	F	L	0.52	18.0	B
		T	1.06	62.1	E	T	1.07	64.5	E	T	1.05	55.4	E
	INTERSECTION			56.9	E			102.8	F			43.4	D
Madison Avenue @ East 49th Street	WB	TR	0.51	22.9	C	TR	0.52	23.0	C				
		L	0.22	11.0	B	L	0.22	11.0	B				
	NB	T	0.96	33.0	C	T	0.99	38.6	D				
		INTERSECTION			29.4	C			33.3	C			
Madison Avenue @ East 51st Street	WB	T	0.61	26.1	C	T	0.61	26.1	C	T	0.61	26.1	C
		R	0.74	59.5	E	R	0.74	59.5	E	R	0.74	59.5	E
	NB	L	0.71	34.1	C	L	0.71	34.1	C	L	0.71	34.1	C
		T	1.08	66.5	E	T	1.10	76.6	E	T	1.10	76.6	E
	INTERSECTION			57.3	E			64.6	E			64.6	E
Madison Avenue @ East 53rd Street	WB	TR	0.52	22.9	C	TR	0.52	22.9	C	TR	0.53	23.9	C
		L	0.20	10.5	B	L	0.20	10.5	B	L	0.20	9.9	A
	NB	T	1.00	41.0	D	T	1.02	47.8	D	T	1.00	41.0	D
		INTERSECTION			34.7	C			39.6	D			35.1
Madison Avenue @ East 57th Street	EB	LT	0.78	29.9	C	LT	0.78	29.9	C				
		T	0.62	24.9	C	T	0.63	25.1	C				
	WB	R	0.61	30.6	C	R	0.61	30.6	C				
		NB	L	0.26	11.5	B	L	0.27	11.5	B			
	T		0.93	28.3	C	T	0.96	32.3	C				
	R	0.34	12.6	B	R	0.34	12.6	B					
INTERSECTION			26.9	C			28.6	C					



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Fifth Avenue @ 42nd Street	EB	T	0.73	27.8	C	T	0.73	27.8	C				
		R	0.24	22.6	C	R	0.24	22.6	C				
	WB	LT	1.00	57.5	E	LT	1.01	59.5	E				
		SB	LT	0.98	32.4	C	LT	1.00	36.9	D			
	INTERSECTION			37.4	D			40.3	D				
Fifth Avenue @ 43rd Street	WB	L	0.62	30.4	C	L	0.61	30.0	C	L	0.68	36.5	D
		T	0.29	20.3	C	T	0.35	21.4	C	T	0.38	24.0	C
	SB	T	0.88	21.4	C	T	0.91	23.1	C	T	0.85	17.2	B
		R	1.33	199.2	F	R	1.53	286.5	F	R	1.31	189.1	F
	INTERSECTION			39.8	D			49.2	D			36.0	D
Fifth Avenue @ 44th Street	EB	T	0.55	25.5	C	T	0.60	27.1	C	T	0.60	27.1	C
		R	0.90	56.3	E	R	0.93	64.0	E	R	0.93	64.0	E
	SB	LT	1.00	37.0	D	LT	1.22	122.6	F	LT	1.22	122.6	F
		INTERSECTION			37.9	D			105.9	F			105.9
Fifth Avenue @ 45th Street	WB	LT	0.44	21.6	C	LT	0.47	22.2	C	LT	0.49	23.1	C
		T	0.91	23.5	C	T	1.03	45.8	D	T	1.01	38.5	D
	SB	R	0.32	12.6	B	R	0.42	14.6	B	R	0.41	13.5	B
		INTERSECTION			22.6	C			39.9	D			34.4
Fifth Avenue @ 46th Street	EB	TR	0.86	43.4	D	TR	0.96	59.5	E	TR	0.96	59.5	E
		SB	LT	1.04	49.7	D	LT	1.20	114.3	F	LT	1.20	114.3
	INTERSECTION			48.7	D			105.5	F			105.5	F
Fifth Avenue @ 47th Street	WB	L	0.93	79.0	E	L	1.87	445.7	F	L	1.87	445.7	F
		T	0.61	24.8	C	T	0.64	25.9	C	T	0.64	25.9	C
	SB	T	0.98	36.6	D	T	1.02	46.3	D	T	1.02	46.3	D
		R	1.16	152.5	F	R	1.16	152.5	F	R	1.16	152.5	F
	INTERSECTION			45.6	D			114.3	F			114.3	F
Fifth Avenue @ 48th Street	EB	T	0.57	23.5	C	T	0.64	25.6	C	T	0.64	25.6	C
		R	0.91	80.3	F	R	1.05	115.2	F	R	1.05	115.2	F
	SB	LT	1.04	51.9	D	LT	1.07	62.3	E	LT	1.07	62.3	E
		INTERSECTION			50.4	D			61.7	E			61.7
Fifth Avenue @ 49th Street	WB	LT	0.43	21.4	C	LT	0.44	21.5	C				
		SB	T	0.88	21.4	C	T	0.91	23.3	C			
	INTERSECTION			11.3	B			11.3	B				
Fifth Avenue @ 50th Street	EB	TR	0.46	22.0	C	TR	0.46	22.1	C				
		SB	LT	0.94	26.4	C	LT	0.97	30.3	C			
	INTERSECTION			25.6	C			28.7	C				
Fifth Avenue @ 51st Street	WB	L	0.69	50.1	D	L	0.70	50.9	D				
		T	0.53	22.4	C	T	0.53	22.3	C				
	SB	T	0.93	28.8	C	T	0.96	32.5	C				
		R	1.28	201.6	F	R	1.28	201.6	F				
	INTERSECTION			30.0	C			41.7	D				
Fifth Avenue @ 52nd Street	EB	T	0.52	21.8	C	T	0.52	21.8	C	T	0.54	22.8	C
		R	0.86	67.2	E	R	0.86	67.2	E	R	0.86	67.2	E
	SB	LT	1.09	70.1	E	LT	1.12	81.1	F	LT	1.09	69.3	E
		INTERSECTION			63.3	E			72.0	E			62.9
Fifth Avenue @ 53rd Street	WB	LT	0.55	23.4	C	LT	0.55	23.4	C				
		SB	T	0.89	22.1	C	T	0.92	24.1	C			
	SB	R	0.34	13.3	B	R	0.34	13.3	B				
		INTERSECTION			22.0	C			23.5	C			
Fifth Avenue @ 54th Street	EB	TR	0.46	22.0	C	TR	0.46	22.0	C				
		SB	LT	0.99	35.3	D	LT	1.02	41.6	D			
	INTERSECTION			32.8	C			38.0	D				
Fifth Avenue @ 56th Street	EB	T	0.65	29.2	C	T	0.65	29.3	C				
		R	0.73	37.4	D	R	0.73	37.4	D				
	SB	LT	0.97	31.5	C	LT	1.00	37.9	D				
		INTERSECTION			31.7	C			36.8	D			
Fifth Avenue @ 57th Street	EB	T	0.70	27.1	C	T	0.70	27.1	C				
		R	0.91	59.5	E	R	0.91	59.5	E				
	WB	LT	0.59	23.9	C	LT	0.60	24.0	C				
		SB	LT	0.80	17.9	B	LT	0.83	18.9	B			
	INTERSECTION			17.1	B			17.1	B				
Fifth Avenue @ 59th Street	EB	T	0.34	18.3	B	T	0.34	18.3	B	T	0.34	18.3	B
		R	0.86	66.5	E	R	0.86	66.5	E	R	0.86	66.5	E
	SB	LT	1.34	178.8	F	LT	1.38	197.7	F	LT	1.38	197.7	F
		INTERSECTION			139.8	F			154.6	F			154.6

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Signalized Intersection	Approach	2033 No-Action				Modified Proposal Alternative				Modified Proposal Alternative w/ Mitigation			
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
Sixth Avenue @ West 40th Street	EB	LT	1.20	136.7	F	LT	1.24	153.9	F	L	0.74	35.6	D
	NB	TR	0.95	32.1	C	TR	0.95	33.2	C	T	0.63	27.9	C
	INTERSECTION			56.2	E			61.6	E			32.8	C
Sixth Avenue @ West 42nd Street	EB	LT	0.82	36.2	D	LT	0.82	36.2	D	LT	0.80	33.8	C
	WB	T	0.66	28.8	C	T	0.66	28.8	C	T	0.64	27.6	C
	NB	R	1.44	249.0	F	R	1.46	258.4	F	R	1.40	230.9	F
	INTERSECTION	LTR	0.56	9.9	A	LTR	0.56	10.0	A	LTR	0.57	10.8	B
Sixth Avenue @ West 44th Street	EB	L	0.37	25.7	C	L	0.37	25.7	C				
	NB	TR	0.67	11.3	B	TR	0.68	11.5	B				
	INTERSECTION			13.8	B			14.2	B				
Sixth Avenue @ West 45th Street	WB	T	0.51	24.5	C	T	0.53	25.0	C	TR	0.48	21.2	C
	NB	LT	0.62	13.4	B	LT	0.62	13.5	B	R	0.91	55.3	E
	INTERSECTION			18.4	B			25.3	C			22.4	C
Sixth Avenue @ West 46th Street	EB	L	0.44	38.8	D	L	0.44	38.8	D				
	NB	TR	0.77	20.9	C	TR	0.81	22.0	C				
	INTERSECTION			21.4	C			22.3	C				
Route 9A @ West 51st Street	WB	L	0.64	50.3	D	L	0.64	50.3	D				
	NB	T	0.71	18.4	B	T	0.71	18.6	B				
	SB	T	0.70	13.6	B	T	0.71	13.8	B				
	INTERSECTION			18.0	B			18.1	B				
Route 9A @ West 52nd Street	EB	LTR	0.55	42.0	D	LTR	0.55	42.0	D				
	NB	TR	0.87	27.5	C	TR	0.88	27.9	C				
	SB	L	0.76	89.6	F	L	0.76	89.6	F				
	INTERSECTION	T	0.72	14.0	B	T	0.73	14.1	B				
Route 9A @ West 54th Street	WB	R	0.14	32.1	C	R	0.14	32.1	C				
	NB	TR	0.78	18.3	B	TR	0.79	18.5	B				
	SB	L	0.27	34.1	C	L	0.27	34.1	C				
	INTERSECTION	T	0.60	14.0	B	T	0.60	14.1	B				
		T-SR	0.16	9.7	A	T-SR	0.16	9.7	A				
Route 9A @ West 55th Street	WB	LT	0.94	78.9	E	LT	0.94	78.9	E				
	NB	L	0.25	56.2	E	L	0.25	56.2	E				
	SB	TR	0.81	25.3	C	TR	0.81	25.6	C				
	INTERSECTION			23.6	C			23.8	C				
		R	0.32	38.8	D	R	0.32	38.9	D				
Route 9A @ West 55th Street - Service Rd	NB	T	0.35	10.0	B	T	0.35	10.0	B				
	SB	T	0.11	14.0	B	T	0.11	14.0	B				
	INTERSECTION			11.4	B			11.4	B				
Route 9A @ West 56th Street	NB	T	0.59	9.9	A	T	0.60	10.0	A				
	SB	L	0.50	46.6	D	L	0.50	46.6	D				
	INTERSECTION			7.5	A			7.5	A				
		T	0.46	0.7	A	T	0.46	0.7	A				
Route 9A @ West 56th Street - Service Rd	EB	L	0.22	42.7	D	L	0.22	42.7	D				
	NB	TR	0.24	6.8	A	TR	0.24	6.8	A				
	INTERSECTION			25.8	C			25.8	C				
		T	0.71	58.6	E	T	0.71	58.6	E				

Unsignalized Intersection	Approach	MD Existing				MD Existing				MD Existing			
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
First Avenue @ East 48th Street	EB	L	1.08	123.7	F	L	1.09	126.6	F				
	INTERSECTION			123.7	F			126.6	F				
Vanderbilt Avenue @ East 43rd Street	SB	R	0.44	10.9	B	R	0.44	10.9	B				
	INTERSECTION			10.9	B			10.9	B				
Vanderbilt Avenue @ East 44th Street	EB	LR	0.00	10.8	B	R	0.00	8.9	A				
	INTERSECTION			10.4	B			8.9	A				
Vanderbilt Avenue @ East 47th Street	WB	T	0.00	11.5	B	T	0.00	17.5	C				
	INTERSECTION			10.5	B			17.5	C				

Notes:

††To mimic actual conditions for NB/SB left turning vehicles on Park Avenue, the sum of two delays were accounted for: (1) delay from making the left turn; and (2) delay from waiting at the red light after the left turn. Shading denotes locations with no significant adverse impacts.

Locations with no significant adverse impacts under the proposed action were not analyzed for Lower Density Alternative conditions.

Source: Parsons Brinckerhoff, Inc. 2013

# East Midtown Rezoning and Related Actions FEIS

Level of Service Table - 2033 Modified Proposal Alternative Conditions (PM Peak Hour)

Signalized Intersection	Approach	2033 No-Action				Modified Proposal Alternative				Modified Proposal Alternative w/ Mitigation			
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
First Avenue @ East 42nd Street	EB	LT (east)	1.29	172.5	F	LT (east)	1.35	198.9	F	LT (east)	1.35	198.9	F
		L (west)	1.08	120.9	F	L (west)	1.09	123.0	F	L (west)	1.04	105.0	F
		T (west)	0.67	28.5	C	T (west)	0.70	29.5	C	T (west)	0.68	28.2	C
	WB	TR (east)	0.86	38.7	D	TR (east)	0.86	38.8	D	TR (east)	0.86	38.8	D
		R (east)	0.90	59.7	E	R (east)	0.90	59.2	E	R (east)	0.90	59.2	E
		TR (west)	0.49	25.0	C	TR (west)	0.49	25.0	C	TR (west)	0.48	24.1	C
	NB	LT (east)	1.04	63.2	E	LT (east)	1.04	62.9	E	LT (east)	1.04	62.9	E
		R (east)	0.34	15.5	B	R (east)	0.34	15.5	B	R (east)	0.33	15.3	B
		L (west)	0.48	17.5	B	L (west)	0.48	17.5	B	L (west)	0.48	17.5	B
	INTERSECTION			60.5	E			65.3	E			64.3	E
First Avenue @ East 46th Street	EB	L	0.95	55.1	E	L	1.13	105.8	F	L	0.57	23.8	C
	NB	T	1.00	35.9	D	T	0.99	35.6	D	T	0.99	35.6	D
	INTERSECTION			39.7	D			51.7	D			33.0	C
First Avenue @ East 47th Street	WB	TR (east)	0.00	16.8	B	TR (east)	0.00	16.8	B	TR (east)	0.00	18.0	B
		TR (west)	0.00	16.8	B	TR (west)	0.00	16.8	B	TR (west)	0.00	18.0	B
	NB	L (west)	0.36	11.9	B	L (west)	0.36	11.9	B	L (west)	0.35	10.4	B
		T (west)	0.74	20.0	B	T (west)	0.74	20.0	C	T (west)	0.71	17.2	B
	INTERSECTION			109.5	F			135.9	F			111.1	F
First Avenue @ East 48th Street	NB	T	0.82	23.0	C	T	0.83	23.1	C	T	0.83	23.1	C
	INTERSECTION			171.5	F			223.5	F			231.5	F
Second Avenue @ East 39th Street	WB	LT	0.39	23.7	C	LT	0.40	23.8	C				
	SB	T	0.85	14.8	B	T	0.87	15.6	B				
	INTERSECTION			11.3	B			11.6	B				
Second Avenue @ East 40th Street	EB	TR	0.79	34.2	C	TR	0.85	38.2	D				
	INTERSECTION			15.4	B			16.0	B				
Second Avenue @ East 42nd Street	EB	T	0.44	23.6	C	T	0.44	23.6	C	T	0.44	23.6	C
		R	1.95	472.5	F	R	2.00	493.1	F	R	2.00	493.1	F
	WB	LT	1.13	105.7	F	LT	1.13	107.6	F	LT	1.13	107.6	F
		L	1.04	73.3	E	L	1.14	107.0	F	L	1.14	107.0	F
	INTERSECTION			31.6	C			34.8	C			34.8	C
Second Avenue @ East 43rd Street	WB	LT	0.46	27.3	C	LT	0.46	27.5	C				
	SB	T	0.82	13.8	B	T	0.84	14.6	B				
	INTERSECTION			14.9	B			15.8	B			93.0	F
Second Avenue @ East 44th Street	EB	TR	1.33	200.1	F	TR	1.37	216.8	F	TR	1.31	193.2	F
	SB	LT	0.82	10.9	B	LT	0.84	11.4	B	LT	0.86	12.7	B
	INTERSECTION			31.6	C			33.9	C			32.4	C
Second Avenue @ East 45th Street	WB	LT	0.91	62.8	E	LT	0.91	62.2	E				
	SB	T	0.78	10.1	B	T	0.81	10.6	B				
	INTERSECTION			8.9	A			9.0	A				
Second Avenue @ East 46th Street	EB	T	0.71	36.8	D	T	0.89	51.3	D	T	0.80	39.3	D
	SB	R	1.23	157.7	F	R	1.38	218.1	F	R	1.23	155.2	F
	INTERSECTION			10.5	B			10.9	B			14.6	B
Second Avenue @ East 49th Street	WB	L	1.18	135.9	F	L	1.21	150.1	F	L	1.17	131.2	F
	SB	T	0.41	28.0	C	T	0.41	28.0	C	T	0.39	27.1	C
	INTERSECTION			12.5	B			12.7	B			13.7	B
Second Avenue @ East 51st Street	WB	R	0.35	10.8	B	R	0.37	11.0	B	R	0.38	11.9	B
	SB	T	0.71	12.5	B	T	0.73	12.7	B	T	0.74	13.7	B
	INTERSECTION			30.2	C			32.4	C			30.5	C
Second Avenue @ East 52nd Street	WB	LT	0.78	39.9	D	LT	0.78	39.5	D				
	SB	T	0.67	11.2	B	T	0.68	11.3	B				
	INTERSECTION			24.6	C			24.0	C				
Second Avenue @ East 53rd Street	WB	LT	0.91	47.3	D	LT	0.91	46.8	D				
	SB	T	0.67	14.0	B	T	0.68	14.2	B				
	INTERSECTION			21.3	C			21.2	C				
Second Avenue @ East 56th Street	EB	T	0.55	28.3	C	T	0.54	28.2	C				
	SB	R	0.39	25.7	C	R	0.39	25.6	C				
	INTERSECTION			10.5	B			10.6	B				
Second Avenue @ East 53rd Street	WB	LT	0.91	47.3	D	LT	0.91	46.8	D				
	SB	T	0.67	14.0	B	T	0.68	14.2	B				
	INTERSECTION			21.3	C			21.2	C				
Second Avenue @ East 56th Street	EB	T	0.55	28.3	C	T	0.54	28.2	C				
	SB	R	0.39	25.7	C	R	0.39	25.6	C				
	INTERSECTION			13.1	B			13.1	B				

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Signalized Intersection	Approach	2033 No-Action				Modified Proposal Alternative				Modified Proposal Alternative w/ Mitigation			
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
Second Avenue @ East 57th Street	EB	T	0.75	28.7	C	T	0.79	30.1	C				
		R	0.26	32.5	C	R	0.26	32.5	C				
	WB	LT	0.21	19.0	B	LT	0.21	19.0	B				
		L	0.45	19.9	B	L	0.45	19.9	B				
	SB	T	0.73	20.6	C	T	0.75	20.9	C				
		R	0.75	33.8	C	R	0.75	33.8	C				
INTERSECTION			23.4	C			23.9	C					
Second Avenue @ East 59th Street	EB	TR (local)	0.42	25.5	C	TR (local)	0.42	25.5	C	TR (local)	0.44	26.0	C
	SB	L (bridge)	1.24	130.5	F	L (bridge)	1.24	130.5	F	L (bridge)	1.24	130.5	F
		LT (local)	0.77	12.6	B	LT (local)	0.78	12.8	B	LT (local)	0.78	12.8	B
	INTERSECTION			45.1	D			45.4	D			44.9	D
Tunnel Exit Street @ East 39th Street	WB	TR	0.54	26.1	C	TR	0.55	26.4	C				
	NB	LT	0.22	10.8	B	LT	0.22	10.8	B				
	INTERSECTION			18.5	B			18.7	B				
Third Avenue @ East 39th Street	WB	TR	0.56	20.4	C	TR	0.57	20.6	C				
	NB	LT	0.61	17.1	B	LT	0.62	17.2	B				
INTERSECTION			18.0	B			18.1	B					
Third Avenue @ East 42nd Street	EB	L	1.20	163.9	F	L	1.18	156.8	F	L	1.18	156.8	F
		T	1.00	60.9	E	T	1.01	63.2	E	T	1.01	63.2	E
	WB	T	0.95	60.1	E	T	0.96	61.9	E	T	0.96	61.9	E
		R	1.05	119.1	F	R	1.10	132.1	F	R	1.10	132.1	F
	NB	LT	1.02	47.7	D	LT	1.02	49.7	D	LT	1.02	49.7	D
		R	0.98	82.4	F	R	1.00	88.7	F	R	1.00	88.7	F
INTERSECTION			62.3	E			64.5	E			64.5	E	
Third Avenue @ East 43rd Street	WB	TR	0.43	21.9	C	TR	0.47	22.6	C				
	NB	LT	0.83	17.4	B	LT	0.84	17.6	B				
	INTERSECTION			17.9	B			18.2	B				
Third Avenue @ East 44th Street	EB	LT	0.48	24.0	C	LT	0.48	24.0	C				
	NB	T	0.61	13.1	B	T	0.62	13.2	B				
		R	0.75	33.6	C	R	0.78	36.5	D				
INTERSECTION			15.5	B			15.8	B					
Third Avenue @ East 46th Street	EB	L	0.34	34.9	C	L	0.44	37.2	D				
		T	0.39	15.3	B	T	0.48	16.5	B				
	NB	TR	0.81	23.8	C	TR	0.82	24.1	C				
INTERSECTION			22.7	C			23.0	C					
Third Avenue @ East 49th Street	WB	T	0.60	19.5	B	T	0.61	19.9	B				
		R	0.40	37.0	D	R	0.40	37.0	D				
	NB	LT	0.72	23.5	C	LT	0.74	23.8	C				
INTERSECTION			23.4	C			23.7	C					
Third Avenue @ East 50th Street	EB	L	0.35	18.4	B	L	0.36	18.7	B				
		T	0.21	15.7	B	T	0.23	15.9	B				
	NB	T	0.66	17.8	B	T	0.67	18.0	B				
R		0.44	22.4	C	R	0.44	22.4	C					
INTERSECTION			17.8	B			18.0	B					
Third Avenue @ East 51st Street	WB	T	0.49	18.1	B	T	0.48	17.9	B				
		R	0.55	41.4	D	R	0.55	41.4	D				
	NB	LT	0.72	22.0	C	LT	0.73	22.1	C				
INTERSECTION			22.5	C			22.6	C					
Third Avenue @ East 53rd Street	WB	T	0.74	25.7	C	T	0.74	25.4	C				
		R	0.49	39.6	D	R	0.49	39.6	D				
	NB	LT	0.71	21.7	C	LT	0.73	22.0	C				
INTERSECTION			23.2	C			23.4	C					
Third Avenue @ East 57th Street	EB	LT	0.80	30.2	C	LT	0.83	31.7	C	LT	0.83	31.7	C
		T	0.43	29.3	C	T	0.43	29.3	C	T	0.43	29.3	C
	WB	R	0.33	30.2	C	R	0.33	30.3	C	R	0.33	30.3	C
		LTR	0.71	22.6	C	LTR	0.73	23.0	C	LTR	0.73	23.1	C
	NB	R	0.71	42.6	D	R	0.74	45.4	D	R	0.72	43.3	D
INTERSECTION			25.9	C			26.6	C			26.5	C	
Lexington Avenue @ East 39th Street	WB	L	0.48	43.1	D	L	0.48	43.1	D	L	0.48	43.1	D
		T	0.91	48.5	D	T	0.95	54.8	D	T	0.92	49.0	D
	SB	TR	0.67	15.2	B	TR	0.68	15.4	B	TR	0.70	16.5	B
INTERSECTION			23.9	C			25.6	C			25.0	C	
Lexington Avenue @ East 46th Street	EB	TR	0.71	30.6	C	TR	0.87	39.5	D				
	SB	LT	0.62	10.8	B	LT	0.63	10.9	B				
INTERSECTION			16.0	B			19.7	B					
Lexington Avenue @ East 50th Street	EB	TR	0.24	18.9	B	TR	0.25	19.0	B	TR	0.39	20.9	C
	SB	LT	0.87	21.4	C	LT	0.91	24.7	C	LT	0.91	24.7	C
INTERSECTION			21.0	C			23.6	C			24.0	C	
Lexington Avenue @ East 51st Street	WB	L	0.56	34.8	C	L	0.62	36.8	D	L	0.55	31.8	C
		T	1.02	87.5	F	T	1.16	134.5	F	T	1.03	86.0	F
	SB	T	0.75	18.0	B	T	0.77	18.6	B	T	0.82	23.1	C
		R	0.42	17.9	B	R	0.42	17.9	B	R	0.48	23.1	C
INTERSECTION			31.8	C			42.2	D			35.9	D	

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Signalized Intersection	Approach	2033 No-Action				Modified Proposal Alternative				Modified Proposal Alternative w/ Mitigation			
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
Lexington Avenue @ East 53rd Street	WB	LT	0.60	24.2	C	LT	0.60	24.3	C				
	SB	T	0.75	16.5	B	T	0.77	17.0	B				
		R	0.22	10.9	B	R	0.22	10.9	B				
INTERSECTION			18.7	B			19.0	B					
Park Avenue @ West 39th Street	WB	LTR	1.18	124.6	F	LTR	1.23	145.9	F	LTR	0.64	24.1	C
	NB	Lt†	0.00	40.0	D	Lt†	0.00	40.0	D	Lt†	0.00	40.0	D
		LT	0.47	15.9	B	LT	0.47	15.9	B	LT	0.47	15.9	B
	SB	TR	0.93	33.9	C	TR	0.98	42.1	D	TR	0.98	42.1	D
INTERSECTION			51.5	D			61.2	E			30.8	C	
Park Avenue @ West 40th Street	EB	LT	0.81	39.8	D	LT	0.89	48.2	D	LT	0.89	48.2	D
		R	0.53	29.9	C	R	0.62	34.0	C	R	0.62	34.0	C
	NB	T (Tunnel Exit)	0.98	46.7	D	T (Tunnel Exit)	0.98	46.7	D	T (Tunnel Exit)	0.98	46.7	D
		T (SR onto Viaduct)	0.53	16.1	B	T (SR onto Viaduct)	0.53	16.0	B	T (SR onto Viaduct)	0.53	16.0	B
		TR	0.55	17.5	B	TR	0.56	17.5	B	TR	0.56	17.5	B
	SB	T	0.06	10.3	B	T	0.07	10.3	B	T	0.07	10.3	B
		T (Viaduct Exit)	1.14	96.3	F	T (Viaduct Exit)	1.18	110.8	F	T (Viaduct Exit)	1.18	110.8	F
INTERSECTION			52.9	D			58.9	E			58.9	E	
Park Avenue @ West 46th Street	EB	LT	0.58	21.5	C	LT	0.76	26.6	C				
		R	0.26	18.4	B	R	0.30	19.3	B				
	NB	TR	0.85	28.3	C	TR	0.86	28.9	C				
	SB	Lt†	0.00	40.9	D	Lt†	0.00	41.0	D				
		T	0.74	24.5	C	T	0.74	24.5	C				
INTERSECTION			26.1	C			27.4	C					
Park Avenue @ West 47th Street	WB	LT	0.64	26.2	C	LT	0.76	30.6	C	LT	0.79	34.9	C
		R	0.52	25.0	C	R	0.56	26.6	C	R	0.60	29.8	C
	NB	Lt†	0.00	38.0	D	Lt†	0.00	38.7	D	Lt†	0.00	38.7	D
		T	1.04	59.7	E	T	1.08	73.7	E	T	1.03	55.4	E
	SB	TR	0.82	25.7	C	TR	0.82	25.9	C	TR	0.78	23.1	C
		INTERSECTION			39.9	D			46.2	D			38.4
Park Avenue @ West 48th Street	EB	LT	0.69	28.6	C	LT	0.71	29.5	C				
		R	0.27	19.8	B	R	0.28	20.1	C				
	NB	TR	0.82	24.9	C	TR	0.86	26.8	C				
	SB	Lt†	0.00	41.7	D	Lt†	0.00	42.0	D				
		T	0.97	41.5	D	T	0.97	42.1	D				
INTERSECTION			32.3	C			33.4	C					
Park Avenue @ West 49th Street	WB	LT	0.92	51.4	D	LT	0.94	55.0	D	LT	0.94	55.0	D
		R	0.50	25.3	C	R	0.53	26.2	C	R	0.53	26.2	C
	NB	Lt†	0.00	37.7	D	Lt†	0.00	37.8	D	Lt†	0.00	37.8	D
		T	1.00	47.9	D	T	1.04	59.0	E	T	1.04	59.0	E
	SB	TR	0.77	22.3	C	TR	0.77	22.5	C	TR	0.77	22.5	C
		INTERSECTION			36.2	D			41.3	D			41.3
Park Avenue @ West 50th Street	EB	LTR	0.53	23.8	C	LTR	0.55	24.2	C				
	NB	TR	0.78	22.0	C	TR	0.81	23.0	C				
	SB	Lt†	0.00	38.4	D	Lt†	0.00	38.4	D				
		T	0.96	38.3	D	T	0.96	38.5	D				
INTERSECTION			29.1	C			29.5	C					
Park Avenue @ West 51st Street	WB	LT	0.63	28.9	C	LT	0.66	30.2	C	LT	0.66	30.2	C
		R	0.56	31.7	C	R	0.70	40.3	D	R	0.70	40.3	D
	NB	Lt†	0.00	39.0	D	Lt†	0.00	39.1	D	Lt†	0.00	39.1	D
		T	1.02	52.4	D	T	1.07	66.4	E	T	1.07	66.4	E
	SB	TR	0.79	21.9	C	TR	0.79	22.0	C	TR	0.79	22.0	C
INTERSECTION			36.0	D			42.5	D			42.5	D	
Park Avenue @ West 53rd Street	WB	LTR	0.90	42.6	D	LTR	0.90	43.4	D	LTR	0.90	43.4	D
		NB	Lt†	0.00	38.3	D	Lt†	0.00	38.3	D	Lt†	0.00	38.3
	SB	T	1.08	69.5	E	T	1.12	86.7	F	T	1.12	86.7	F
		TR	0.70	18.0	B	TR	0.70	18.1	B	TR	0.70	18.1	B
	INTERSECTION			44.1	D			51.9	D			51.9	D
Park Avenue @ West 56th Street	EB	LT	0.81	41.6	D	LT	0.82	42.8	D				
		R	0.37	25.9	C	R	0.37	25.9	C				
	NB	TR	0.92	27.3	C	TR	0.95	31.5	C				
	SB	Lt†	0.00	39.0	D	Lt†	0.00	39.0	D				
		T	0.91	28.1	C	T	0.91	28.2	C				
INTERSECTION			29.2	C			31.4	C					
Park Avenue @ West 57th Street	EB	LT	0.72	28.6	C	LT	0.72	28.6	C	LT	0.76	31.9	C
		R	0.29	21.8	C	R	0.29	21.9	C	R	0.32	23.8	C
	WB	LT	0.42	22.0	C	LT	0.42	22.0	C	LT	0.44	23.8	C
		R	0.32	22.6	C	R	0.32	22.6	C	R	0.35	24.6	C
	NB	Lt†	0.00	39.9	D	Lt†	0.00	40.1	D	Lt†	0.00	40.3	D
		TR	1.14	94.5	F	TR	1.19	114.7	F	TR	1.14	93.0	F
	SB	Lt†	0.00	36.4	D	Lt†	0.00	36.4	D	Lt†	0.00	36.5	D
		TR	1.14	95.1	F	TR	1.15	96.0	F	TR	1.10	76.0	E
INTERSECTION			73.7	E			81.5	F			67.8	E	

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		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
Vanderbilt Avenue @ East 42nd Street	EB	T	0.52	19.6	B	T	0.52	19.6	B				
	WB	T	0.76	26.0	C	T	0.77	26.3	C				
	INTERSECTION			23.1	C			23.4	C				
Vanderbilt Avenue @ East 45th Street	WB	LTR	0.43	18.6	B	T	0.35	17.3	B				
	INTERSECTION			18.8	B			17.3	B				
Vanderbilt Avenue @ East 46th Street	EB	LTR	0.50	19.4	B	T	0.78	26.4	C				
	INTERSECTION			19.6	B			26.4	C				
Madison Avenue @ East 39th Street	WB	T	0.91	46.0	D	T	0.95	52.4	D	T	0.92	47.0	D
		R	0.81	68.0	E	R	0.93	88.3	F	R	0.78	60.0	E
	NB	LT	0.60	14.1	B	LT	0.61	14.3	B	L	0.35	17.7	B
	INTERSECTION			25.7	C			29.5	C			29.0	C
Madison Avenue @ East 40th Street	EB	L	0.45	42.2	D	L	0.51	44.2	D	L	0.47	41.8	D
		T	0.78	34.4	C	T	0.92	48.4	D	T	0.89	43.8	D
	NB	TR	0.63	14.6	B	TR	0.65	15.0	B	TR	0.67	16.0	B
	INTERSECTION			20.2	C			24.3	C			23.8	C
Madison Avenue @ East 41st Street	EB	L	0.49	43.0	D	L	0.52	44.0	D				
		T	0.20	18.5	B	T	0.20	18.5	B				
	NB	TR	0.57	13.8	B	TR	0.60	14.1	B				
	INTERSECTION			16.1	B			16.4	B				
Madison Avenue @ East 42nd Street	EB	LT	0.48	22.3	C	LT	0.47	22.2	C				
	WB	T	0.75	28.8	C	T	0.76	29.2	C				
		R	0.16	19.5	B	R	0.16	19.5	B				
	NB	LT	0.92	27.7	C	LT	0.97	35.7	D				
	INTERSECTION			17.5	B	R	0.55	18.1	B				
Madison Avenue @ East 43rd Street	WB	T	0.37	21.7	C	T	0.46	23.5	C	T	0.48	24.5	C
		R	0.27	21.2	C	R	0.21	20.1	C	R	0.22	21.0	C
	NB	L	0.61	23.7	C	L	0.83	45.3	D	L	0.79	38.5	D
	INTERSECTION			22.4	C	T	0.89	24.9	C	T	0.87	22.5	C
Madison Avenue @ East 44th Street	EB	LT	1.11	110.0	F	LT	1.87	433.4	F	L	1.38	218.1	F
		T	0.84	21.5	C	T	0.85	22.2	C	T	0.39	22.2	C
	NB	R	1.53	320.7	F	R	1.67	383.5	F	R	1.67	383.5	F
	INTERSECTION			62.0	E			176.8	F			87.2	F
	WB	TR	0.46	22.1	C	TR	0.46	22.1	C	TR	0.48	23.0	C
Madison Avenue @ East 45th Street	NB	L	0.20	10.6	B	L	0.23	10.9	B	L	0.22	10.2	B
		T	0.92	27.4	C	T	1.04	51.9	D	T	1.01	44.5	D
	INTERSECTION			25.2	C			42.8	D			37.7	D
Madison Avenue @ East 46th Street	EB	LT	0.88	44.0	D	LT	1.23	146.1	F	LT	0.57	23.7	C
	NB	T	0.89	25.2	C	T	0.89	24.7	C	T	0.89	24.7	C
		R	0.80	46.6	D	R	1.78	396.8	F	R	1.78	396.8	F
	INTERSECTION			31.8	C			115.9	F			77.9	E
Madison Avenue @ East 47th Street	WB	T	0.78	34.3	C	T	1.20	132.5	F	T	0.53	20.0	B
		R	0.58	46.8	D	R	0.87	73.9	E	R	0.72	50.6	D
	NB	L	0.51	22.9	C	L	0.70	36.1	D	L	0.37	17.1	B
	INTERSECTION			26.6	C	T	0.86	24.5	C	T	0.92	33.2	C
Madison Avenue @ East 49th Street	WB	TR	0.49	22.5	C	TR	0.46	21.8	C				
	NB	L	0.16	10.3	B	L	0.16	10.3	B				
	INTERSECTION			26.2	C	T	0.95	32.7	C				
Madison Avenue @ East 51st Street	WB	T	0.77	33.0	C	T	0.80	35.3	D	T	0.80	35.3	D
		R	0.48	43.1	D	R	0.48	43.3	D	R	0.48	43.3	D
	NB	L	0.76	42.7	D	L	0.76	42.7	D	L	0.76	42.7	D
	INTERSECTION			41.1	D	T	1.04	55.3	E	T	1.04	55.3	E
Madison Avenue @ East 53rd Street	WB	TR	0.47	22.2	C	TR	0.47	22.2	C				
	NB	L	0.27	11.4	B	L	0.27	11.4	B				
	INTERSECTION			29.2	C	T	0.98	37.9	D				
Madison Avenue @ East 57th Street	EB	LT	0.81	32.1	C	LT	0.81	32.1	C				
	WB	T	0.50	22.6	C	T	0.51	22.7	C				
		R	0.64	33.3	C	R	0.64	33.3	C				
	NB	L	0.15	10.0	B	L	0.15	10.1	B				
		T	0.86	22.2	C	T	0.91	26.0	C				
	INTERSECTION			10.7	B	R	0.17	10.7	B				

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Fifth Avenue @ 42nd Street	EB	T	0.43	21.5	C	T	0.43	21.5	C	T	0.44	22.4	C
		R	0.16	20.5	C	R	0.16	20.5	C	R	0.17	21.3	C
	WB	LT	0.84	33.5	C	LT	0.85	34.1	C	LT	0.87	36.9	D
		SB	LT	0.99	34.7	C	LT	1.03	45.8	D	LT	1.01	38.5
	INTERSECTION			32.4	C			39.4	D			35.8	D
Fifth Avenue @ 43rd Street	WB	L	0.59	30.0	C	L	0.76	40.1	D				
		T	0.29	20.3	C	T	0.45	23.1	C				
	SB	T	0.91	23.6	C	T	0.93	25.2	C				
		R	1.33	200.7	F	R	1.30	190.9	F				
INTERSECTION			40.1	D			40.3	D					
Fifth Avenue @ 44th Street	EB	T	0.44	23.0	C	T	0.50	24.4	C	TR	0.50	24.4	C
		R	1.10	109.8	F	R	1.13	122.8	F	R	1.13	122.8	F
	SB	LT	1.01	40.6	D	LT	1.14	86.2	F	LT	1.14	86.2	F
INTERSECTION			47.7	D			84.3	F			84.3	F	
Fifth Avenue @ 45th Street	WB	LT	0.46	21.9	C	LT	0.46	22.0	C				
		SB	T	0.90	22.8	C	T	0.97	31.2	C			
	INTERSECTION			14.1	B			27.7	C				
Fifth Avenue @ 46th Street	EB	TR	1.00	68.8	E	TR	1.17	124.5	F	TR	1.17	124.5	F
		SB	LT	1.00	37.0	D	LT	1.17	100.9	F	LT	1.17	100.9
	INTERSECTION			43.3	D			105.6	F			105.6	F
Fifth Avenue @ 47th Street	WB	L	0.76	56.0	E	L	1.64	342.5	F	L	1.64	342.5	F
		T	0.57	23.4	C	T	0.62	25.0	C	T	0.62	25.0	C
	SB	T	0.96	33.7	C	T	1.01	44.6	D	T	1.01	44.6	D
		R	1.05	115.6	F	R	1.07	121.5	F	R	1.07	121.5	F
INTERSECTION			38.6	D			89.8	F			89.8	F	
Fifth Avenue @ 48th Street	EB	T	0.67	26.5	C	T	0.76	30.6	C	T	0.76	30.6	C
		R	1.11	130.8	F	R	1.34	219.0	F	R	1.34	219.0	F
	SB	LT	1.00	42.5	D	LT	1.03	50.2	D	LT	1.03	50.2	D
INTERSECTION			49.1	D			66.9	E			66.9	E	
Fifth Avenue @ 49th Street	WB	LT	0.40	20.9	C	LT	0.41	21.1	C				
		SB	T	0.84	19.5	B	T	0.87	20.6	C			
	INTERSECTION			16.1	B			16.1	B				
Fifth Avenue @ 50th Street	EB	TR	0.47	22.3	C	TR	0.48	22.5	C				
		SB	LT	0.90	22.9	C	LT	0.92	24.8	C			
	INTERSECTION			22.8	C			24.4	C				
Fifth Avenue @ 51st Street	WB	L	0.71	51.7	D	L	0.71	51.7	D				
		T	0.65	25.6	C	T	0.68	26.7	C				
	SB	T	0.87	24.7	C	T	0.90	26.4	C				
		R	1.19	174.6	F	R	1.19	174.6	F				
INTERSECTION			34.2	C			35.4	D					
Fifth Avenue @ 52nd Street	EB	T	0.71	27.8	C	T	0.71	27.7	C				
		R	0.86	67.2	E	R	0.86	67.2	E				
	SB	LT	0.98	36.9	D	LT	1.00	42.8	D				
INTERSECTION			37.9	D			42.1	D					
Fifth Avenue @ 53rd Street	WB	LT	0.52	22.9	C	LT	0.52	22.9	C				
		SB	T	0.80	17.8	B	T	0.82	18.5	B			
	INTERSECTION			12.8	B			12.8	B				
Fifth Avenue @ 54th Street	EB	TR	0.49	22.4	C	TR	0.49	22.5	C				
		SB	LT	0.93	25.4	C	LT	0.95	28.2	C			
	INTERSECTION			24.7	C			26.9	C				
Fifth Avenue @ 56th Street	EB	T	0.74	33.0	C	T	0.74	33.0	C				
		R	0.67	32.6	C	R	0.67	32.6	C				
	SB	LT	0.90	23.5	C	LT	0.93	25.9	C				
INTERSECTION			25.9	C			27.7	C					
Fifth Avenue @ 57th Street	EB	T	0.71	27.3	C	T	0.71	27.3	C				
		R	0.62	32.9	C	R	0.62	32.9	C				
	WB	LT	0.74	29.7	C	LT	0.75	30.0	C				
		SB	LT	0.72	15.7	B	LT	0.74	16.3	B			
	INTERSECTION			18.5	B			18.5	B				
Fifth Avenue @ 59th Street	EB	T	0.40	19.1	B	T	0.40	19.1	B	T	0.40	19.1	B
		R	0.79	58.5	E	R	0.79	58.5	E	R	0.79	58.5	E
	SB	LT	1.31	166.9	F	LT	1.35	184.1	F	LT	1.35	184.1	F
INTERSECTION			124.2	F			137.0	F			137.0	F	
Sixth Avenue @ West 40th Street	EB	L	0.69	36.4	D	L	0.71	37.6	D	L	0.73	40.2	D
		T	0.57	25.7	C	T	0.59	26.2	C	T	0.60	27.4	C
	NB	T	0.86	25.1	C	T	0.86	25.3	C	T	0.84	23.4	C
		R	1.37	232.0	F	R	1.43	258.5	F	R	1.34	215.6	F
INTERSECTION			39.2	D			41.7	D			37.8	D	

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		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
Sixth Avenue @ West 42nd Street	EB	LT	0.48	25.2	C	LT	0.48	25.1	C	LT	0.46	24.1	C
	WB	T	0.63	28.3	C	T	0.63	28.4	C	T	0.61	27.2	C
		R	1.22	162.6	F	R	1.26	176.8	F	R	1.20	151.9	F
	NB	LT	0.64	11.0	B	LT	0.64	11.1	B	LT	0.66	12.0	B
		R	0.24	9.1	A	R	0.24	9.1	A	R	0.25	9.9	A
INTERSECTION			28.8	C			30.3	C			28.4	C	
Sixth Avenue @ West 44th Street	EB	L	0.43	28.4	C	L	0.43	28.4	C	L	0.46	31.2	C
		T	0.33	23.8	C	T	0.38	24.6	C	T	0.40	26.6	C
	NB	T	0.68	11.6	B	T	0.71	11.9	B	T	0.68	10.1	B
		R	1.17	125.6	F	R	1.22	145.2	F	R	1.18	124.9	F
	INTERSECTION			25.9	C			28.6	C			25.1	C
Sixth Avenue @ West 45th Street	WB	T	0.70	30.9	C	T	0.74	33.0	C	T	0.75	33.9	C
		R	0.45	25.0	C	R	0.77	40.1	D	R	0.75	38.9	D
	NB	LT	0.86	19.4	B	LT	0.89	20.6	C	LT	0.89	20.6	C
	INTERSECTION			21.3	C			23.9	C			23.9	C
Sixth Avenue @ West 46th Street	EB	L	0.33	35.6	D	L	0.33	35.6	D	L	0.40	40.6	D
		T	0.44	19.1	B	T	0.45	19.2	B	T	0.49	21.9	C
	NB	T	0.81	22.2	C	T	0.85	23.8	C	T	0.79	19.2	B
		R	0.71	32.0	C	R	0.91	55.4	E	R	0.85	41.3	D
	INTERSECTION			23.1	C			26.9	C			22.4	C
Route 9A @ West 51st Street	WB	L	0.53	63.8	E	L	0.53	63.8	E				
		R	0.90	94.4	F	R	0.91	96.5	F				
	NB	T	0.78	17.4	B	T	0.79	17.8	B				
	SB	T	0.79	13.2	B	T	0.80	13.5	B				
INTERSECTION			18.7	B			19.1	B					
Route 9A @ West 52nd Street	EB	LTR	0.98	93.7	F	LTR	0.98	93.7	F				
	NB	TR	0.99	40.8	D	TR	1.00	45.0	D				
	SB	L	0.45	74.3	E	L	0.44	74.0	E				
		T	0.81	14.0	B	T	0.82	14.2	B				
INTERSECTION			32.6	C			34.6	C					
Route 9A @ West 54th Street	WB	R	0.32	50.6	D	R	0.32	50.6	D				
	NB	TR	0.89	20.5	C	TR	0.90	21.4	C				
	SB	L	0.35	51.5	D	L	0.35	51.5	D				
		T	0.84	18.1	B	T	0.85	18.4	B				
		T-SR	0.08	7.0	A	T-SR	0.08	7.0	A				
INTERSECTION			20.2	C			20.8	C					
Route 9A @ West 55th Street	WB	LT	0.94	100.7	F	LT	0.94	100.7	F				
		R	0.68	63.7	E	R	0.68	64.0	E				
	NB	L	0.21	71.0	E	L	0.21	71.0	E				
		T	0.67	11.7	B	T	0.68	12.0	B				
	SB	TR	0.92	29.6	C	TR	0.93	30.4	C				
INTERSECTION			26.6	C			27.0	C					
Route 9A @ West 55th Street - Service Rd	NB	T	0.61	12.2	B	T	0.61	12.2	B				
	SB	T	0.28	13.1	B	T	0.28	13.1	B				
	INTERSECTION			12.6	B			12.6	B				
Route 9A @ West 56th Street	NB	T	0.77	17.7	B	T	0.79	18.2	B				
		L	0.47	51.6	D	L	0.46	51.6	D				
	SB	T	0.60	1.0	A	T	0.61	1.0	A				
INTERSECTION			11.1	B			11.4	B					
Route 9A @ West 56th Street - Service Rd	EB	L	0.22	47.9	D	L	0.22	47.9	D				
		T	0.65	60.4	E	T	0.65	60.1	E				
	NB	TR	0.45	11.9	B	TR	0.45	11.9	B				
	INTERSECTION			25.0	C			24.9	C				

Unsignalized Intersection	Approach	PM Existing				PM Existing				PM Existing			
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
First Avenue @ East 48th Street	EB	L	0.47	20.4	C	0	0.48	20.9	C				
	INTERSECTION			20.4	C			20.9	C				
Vanderbilt Avenue @ East 43rd Street	SB	R	0.25	9.4	A	R	0.27	9.5	A				
	INTERSECTION			9.4	A			9.5	A				
Vanderbilt Avenue @ East 44th Street	EB	LR	0.00	8.6	A	R	0.00	7.5	A				
	INTERSECTION			8.6	A			7.5	A				
Vanderbilt Avenue @ East 47th Street	WB	T	0.00	12.1	B	T	0.00	27.2	D				
	INTERSECTION			10.9	B			27.2	D				

Notes:

1) To mimic actual conditions for NB/SB left turning vehicles on Park Avenue, the sum of two delays were accounted for: (1) delay from making the left turn; and (2) delay from waiting at the red light after the left turn. Shading denotes locations with no significant adverse impacts.

Locations with no significant adverse impacts under the proposed action were not analyzed for Lower Density Alternative conditions.

Source: Parsons Brinckerhoff, Inc. 2013



Summary of Locations with Significant Adverse Traffic Impacts: Proposed Action and Modified Proposal Alternative

Intersection	AM Peak Hour				Midday Peak Hour				PM Peak Hour			
	Proposed Action		Modified Proposal Alternative		Proposed Action		Modified Proposal Alternative		Proposed Action		Modified Proposal Alternative	
	Impact(s)	Mitigation	Impact (s)	Mitigation	Impact(s)	Mitigation	Impact(s)	Mitigation	Impact(s)	Mitigation	Impact(s)	Mitigation
First Ave. @ E. 42nd St.	EB-L (West)	Yes	EB-L (West)	Yes					EB-LT (East)	No	EB-LT (East)	No
First Ave. @ E. 46th St.					EB-L	Yes	EB-L	Yes	EB-L	Yes	EB-L	Yes
First Ave. @ E. 47th St.									NB-TR	Yes	NB-TR	Yes
First Ave. @ E. 48th St.									NB-R	No	NB-R	No
Second Ave. @ E. 42nd St.	EB-R, WB-LT	No	EB-R, WB-LT, SB-L	No	EB-R, SB-L, SB-TR	No	EB-R, SB-L, SB-TR	No	EB-R, SB-L	No	EB-R, SB-L	No
Second Ave. @ E. 44th St.	EB-TR	Yes	EB-TR	Yes	EB-TR	Yes	EB-TR	Yes	EB-TR	Yes	EB-TR	Yes
Second Ave. @ E. 45th St.	WB-LT	Yes	WB-LT	Yes								
Second Ave. @ E. 46th St.			EB-R	Yes	EB-R	Yes	EB-R	Yes	EB-T, EB-R	Yes	EB-T, EB-R	Yes
Second Ave. @ E. 49th St.	WB-L	Yes	WB-L	Yes	WB-LT	Yes	WB-LT	Yes	WB-L	Yes	WB-L	Yes
Second Ave. @ E. 52nd St.											EB-TR	Yes
Second Ave. @ E. 53rd St.			WB-LT	Yes								
Second Ave. @ E. 57th St.					SB-TR	Yes						
Second Ave. @ E. 59th St.	EB-T	Yes	EB-T	Yes								
Third Ave. @ E. 42nd St.	WB-T, WB-R, NB-R	No	EB-L, WB-T, WB-R, NB-R	No	WB-R	Yes	WB-R	Yes	WB-R, NB-R	No	WB-R, NB-R	No
Third Ave. @ E. 44th St.					NB-R	Yes	NB-R	Yes				
Third Ave. @ E. 57th St.					NB-R	Yes	NB-R	Yes				
Lexington Ave. @ E. 39th St.	WB-T	Yes	WB-T	Yes							WB-T	Yes
Lexington Ave. @ E. 51st St.					WB-L	Yes					WB-T	Yes
Park Ave. @ E. 39th St.	WB-LTR	Yes	WB-LTR	Yes	WB-LTR	Yes	WB-LTR	Yes	WB-LTR, SB-TR	Yes	WB-LTR	Yes
Park Ave. @ E. 40th St.					SBT-Viaduct Exit	Yes	SBT-Viaduct Exit	Yes	EB-LT, SBT-Viaduct Exit	No	EB-LT, SBT-Viaduct Exit	No
Park Ave. @ E. 47th St.									NB-T	Yes	NB-T	Yes
Park Ave. @ E. 49th St.	WB-LT	No	WB-LT	No	WB-LT	No	WB-LT	No	WB-LT, NB-T	No	NB-T	No
Park Ave. @ E. 51st St.									NB-T	Yes	NB-T	No
Park Ave. @ E. 53rd St.									NB-T	No	NB-T	No
Park Ave. @ E. 56th St.												
Park Ave. @ E. 57th St.	NB-TR	Yes	NB-TR	Yes					NB-TR	Yes	NB-TR	Yes
Madison Ave. @ E. 39th St.	WB-T, WB-R	Yes	WB-T, WB-R	Yes	WB-R	Yes	WB-R	Yes	WB-T, WB-R	Yes	WB-T, WB-R	Yes
Madison Ave. @ E. 40th St.	EB-L, EB-T	Yes	EB-L	Yes					EB-T	Yes	EB-T	Yes
Madison Ave. @ E. 42nd St.	NB-LT	Yes	NB-LT	Yes	NB-LT	Yes	NB-LT	Yes				
Madison Ave. @ E. 43rd St.	NB-L, NB-T	Yes	NB-L, NB-T	Yes							NB-L	Yes
Madison Ave. @ E. 44th St.	EB-LT, NB-T, NB-R	No	EB-LT, NB-T, NB-R	No	EB-LT, NB-T, NB-R	Yes	EB-L, NB-T, NB-R	Yes	EB-LT, NB-R	Yes	EB-L, NB-R	No
Madison Ave. @ E. 45th St.	NB-T	Yes	NB-T	Yes	NB-T	No	NB-T	No	NB-T	Yes	NB-T	Yes
Madison Ave. @ E. 46th St.	EB-LT, NB-T	Yes	EB-LT, NB-T	Yes	EB-LT, NB-T	Yes	EB-LT, NB-T	Yes	EB-LT, NB-R	No	EB-LT, NB-R	No
Madison Ave. @ E. 47th St.	WB-T, NB-T	Yes	WB-T, NB-T	Yes	WB-T, NB-L	Yes	WB-T, NB-L	Yes	WB-T, WB-R	Yes	WB-T, WB-R	Yes
Madison Ave. @ E. 49th St.	NB-T	Yes	NB-T	Yes								
Madison Ave. @ E. 51st St.	NB-T	No	NB-T	No	NB-T	No	NB-T	No	NB-T	No	NB-T	No
Madison Ave. @ E. 53rd St.	NB-T	Yes	NB-T	Yes	NB-T	Yes	NB-T	Yes				
Madison Ave. @ E. 57th St.	NB-T	Yes	NB-T	Yes								
Fifth Ave. @ 42nd St.	SB-LT	No	SB-LT	No					SB-LT	Yes	SB-LT	Yes
Fifth Ave. @ 43rd St.	SB-T, SB-R	No	SB-T, SB-R	No	SB-R	Yes	SB-R	Yes				
Fifth Ave. @ 44th St.	SB-LT	No	SB-LT	No	EB-R, SB-LT	No	EB-R, SB-LT	No	EB-R, SB-LT	No	EB-R, SB-LT	No
Fifth Ave. @ 45th St.	SB-T	Yes	SB-T	Yes			SB-T	Yes				
Fifth Ave. @ 46th St.	EB-TR, SB-LT	No	EB-TR, SB-LT	No	EB-TR, SB-LT	No	EB-TR, SB-LT	No	EB-TR, SB-LT	No	EB-TR, SB-LT	No
Fifth Ave. @ 47th St.	WB-L, SB-T	No	WB-L, SB-T	No	WB-L, SB-T	No	WB-L, SB-T	No	WB-L	No	WB-L, SB-R	No
Fifth Ave. @ 48th St.	SB-LT	No	SB-LT	No	EB-R, SB-LT	No	EB-R, SB-LT	No	EB-R, SB-LT	No	EB-R, SB-LT	No
Fifth Ave. @ 49th St.	SB-T	Yes	SB-T	Yes								
Fifth Ave. @ 50th St.	SB-LT	Yes	SB-LT	Yes								
Fifth Ave. @ 51st St.	SB-T	No	SB-T	No								
Fifth Ave. @ 52nd St.	SB-LT	No	SB-LT	No	SB-LT	Yes	SB-LT	Yes				
Fifth Ave. @ 53rd St.	SB-T	Yes	SB-T	Yes								
Fifth Ave. @ 54th St.	SB-LT	Yes	SB-LT	Yes								
Fifth Ave. @ 56th St.	SB-LT	Yes	SB-LT	Yes								
Fifth Ave. @ 57th St.	SB-LT	No	SB-LT	No								
Fifth Ave. @ 59th St.	SB-LT	No	SB-LT	No	SB-LT	No	SB-LT	No	SB-LT	No	SB-LT	No
Sixth Ave. @ W. 40th St.	NB-TR	No	NB-TR	No	EB-LT	Yes	EB-L	Yes	NB-R	Yes	NB-R	Yes
Sixth Ave. @ W. 42nd St.	WB-R	Yes	WB-R	Yes			WB-R	Yes	WB-R	Yes	WB-R	Yes
Sixth Ave. @ W. 44th St.									NB-R	Yes	NB-R	Yes
Sixth Ave. @ W. 45th St.					WB-R	Yes	WB-R	Yes				
Sixth Ave. @ W. 46th St.									NB-R	Yes	NB-R	Yes
Route 9A @ W. 56th St.	NB-T	Yes	NB-T	Yes								

Notes: NB = Northbound; SB = Southbound; EB = Eastbound; WB = Westbound; L = Left-Turn; T = Through; R = Right-Turn; Mitigation = Mitigation Provided; Unmitigable Impacts are highlighted

Weekday Hourly Net Parking Accumulation for Modified Proposal Alternative

Time Period	Land Use				Total
	Office	Residential	Destination Retail	Hotel	
12:00 AM - 1:00 AM	0	-27	0	-10	-37
1:00 AM - 2:00 AM	0	-27	0	-10	-37
2:00 AM - 3:00 AM	0	-27	0	-10	-37
3:00 AM - 4:00 AM	0	-27	0	-10	-37
4:00 AM - 5:00 AM	0	-27	0	-10	-37
5:00 AM - 6:00 AM	0	-27	0	-10	-37
6:00 AM - 7:00 AM	0	-27	0	-8	-35
7:00 AM - 8:00 AM	29	-25	0	-6	-2
8:00 AM - 9:00 AM	381	-22	0	-5	354
9:00 AM - 10:00 AM	653	-19	0	-4	630
10:00 AM - 11:00 AM	628	-19	5	-3	611
11:00 AM - 12:00 PM	614	-19	9	-3	601
12:00 PM - 1:00 PM	608	-19	11	-4	596
1:00 PM - 2:00 PM	630	-19	12	-4	619
2:00 PM - 3:00 PM	680	-19	12	-3	670
3:00 PM - 4:00 PM	675	-19	11	-3	664
4:00 PM - 5:00 PM	477	-21	11	-3	464
5:00 PM - 6:00 PM	77	-24	10	-7	56
6:00 PM - 7:00 PM	19	-26	10	-8	-5
7:00 PM - 8:00 PM	2	-28	12	-9	-23
8:00 PM - 9:00 PM	0	-28	9	-9	-28
9:00 PM - 10:00 PM	0	-27	0	-10	-37
10:00 PM - 11:00 PM	0	-27	0	-10	-37
11:00 PM - 12:00 AM	0	-27	0	-10	-37

Note: Midday peak period is noon to 2:00 p.m.

Source: Parsons Brinckerhoff, Inc., 2013



**BUILD AND IMPROVED**  
Escalator Analysis

**Modified Proposal Alternative Subway Passageway Analysis**  
at the 42nd Street-Grand Central Station

Peak Period	Escalator	DEIS With-Action IMPROVED							Modified Proposal IMPROVED							
		Width (in.)	Feet Per Minute	Guideline Capacity	15-Minute Pedestrian Volumes	Surging Factor	V/C Ratio	LOS	Width (in.)	Feet Per Minute	Guideline Capacity	15-Minute Pedestrian Volumes	Surging Factor	V/C Ratio	LOS	
AM	ES255 (UP)	40	90	945	998	0.95	1.11	D	40	90	945	984	0.95	1.10	D	
	ES256 (UP)	40	90	945	998	0.95	1.11	D	40	90	945	984	0.95	1.10	D	
	ES608 (UP)	40	90	945	163	0.8	0.22	A	40	90	945	163	0.8	0.22	A	
	ES609 (DN)	40	90	945	26	1	0.03	A	40	90	945	26	1	0.03	A	
	ES207-8 (UP)	0	90	945	669	0.75	0.94	C	0	90	945	668	0.75	0.94	C	
	ES209-10 (UP)	0	90	945	669	0.75	0.94	C	0	90	945	668	0.75	0.94	C	
	ES205 (UP)	40	90	945	698	0.8	0.92	C	40	90	945	698	0.8	0.92	C	
	ES206 (UP)	40	90	945	699	0.8	0.92	C	40	90	945	699	0.8	0.92	C	
	ES203 (UP)	32	100	825	609	0.8	0.92	C	32	100	825	609	0.8	0.90	C	
	ES204 (UP)	32	90	825	609	0.8	0.92	C	32	90	825	609	0.8	0.90	C	
	EscalatorA (UP)	40	90	945	381	0.75	0.54	B	40	90	945	381	0.75	0.54	B	
	EscalatorB (DN)	40	90	945	771	1	0.82	C	40	90	945	771	1	0.82	C	
PM	ES255 (DN)	40	90	945	931	1	0.99	C	40	90	945	931	0.9	0.99	C	
	ES256 (UP)	40	90	945	964	0.95	1.07	D	40	90	945	968	0.95	1.08	D	
	ES608 (DN)	40	90	945	124	1	0.13	A	40	90	945	124	1	0.13	A	
	ES609 (UP)	40	90	945	36	0.8	0.05	A	40	90	945	36	0.8	0.05	A	
	ES207-8 (DN)	40	90	945	510	1	0.54	B	40	90	945	502	1	0.53	B	
	ES209-10 (UP)	40	90	945	920	0.75	1.30	D	40	90	945	922	0.75	1.30	D	
	ES205 (UP)	40	90	945	943	0.8	1.25	D	40	90	945	942	0.8	1.25	D	
	ES206 (DN)	40	90	945	480	1	0.51	B	40	90	945	480	1	0.51	B	
	ES203 (DN)	32	100	825	901	1	1.09	D	32	100	825	901	1	1.09	D	
	ES204 (UP)	32	90	825	132	0.8	0.20	A	32	90	825	132	0.8	0.20	A	
		EscalatorA (UP)	40	90	945	412	0.75	0.58	B	40	90	945	412	0.75	0.58	B
		EscalatorB (DN)	40	90	945	303	1	0.32	A	40	90	945	303	1	0.32	A

**BUILD AND IMPROVED  
Passageway Analysis**

**Modified Proposal Alternative Subway Passageway Analysis  
at the 42nd Street-Grand Central Station**

Peak Period	Passageway	Width (ft.)	Effective Width (ft.)	DEIS With-Action IMPROVED							Modified Proposal IMPROVED						
				15-Minute Pedestrian Volumes		Surging Factor West/Up	Surging Factor East/Dn	Friction Factor	V/C Ratio	LOS	15-Minute Pedestrian Volumes		Surging Factor West/Up	Surging Factor East/Dn	Friction Factor	V/C Ratio	LOS
				West/Up	East/Dn						West/Up	East/Dn					
AM	317 Madison	5.25	3.25	38	2	0.8	1	0.9	0.07	A	38	2	0.8	1	0.9	0.07	A
	Flushing Passageway	12	10	825	1391	0.9	0.95	0.9	1.18	D	825	1391	0.9	0.95	0.9	1.18	D
	Paid Shuttle Passage	20	18	955	336	0.9	0.9	0.9	0.44	A	955	336	0.9	0.9	0.9	0.39	A
PM	317 Madison	5.25	3.25	7	41	0.8	1	0.9	0.07	A	7	41	0.8	1	0.9	0.07	A
	Flushing Passageway	12	10	211	1955	0.9	0.95	0.9	1.13	D	211	1957	0.9	0.95	0.9	1.13	D
	Paid Shuttle Passage	20	18	511	779	0.9	0.9	0.9	0.39	A	511	779	0.9	0.9	0.9	0.39	A

BUILD AND IMPROVED  
Fare Array Analysis

Modified Proposal Alternative Subway Fare Array Analysis  
at the 42nd Street-Grand Central Station

Peak Period	Fare Array	Control Element	Quantity	DEIS With-Action IMPROVED						Modified Proposal IMPROVED							
				15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	Control Element	Quantity	15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS
				In	Out							In	Out				
AM	R233	High Entry/Exit Turnstile	2	21	325	0.8	0.9	0.32	A	High Entry/Exit Turnstile	2	23	307	0.8	0.9	0.31	A
		High Exit Turnstile	1							High Exit Turnstile	1						
	R236	Two-way Turnstile	12	836	900	0.8	0.9	0.33	A	Two-way Turnstile	12	837	890	0.8	0.9	0.33	A
		High Exit Turnstile	1							High Exit Turnstile	1						
	R237	High Entry/Exit Turnstile	7	76	756	0.9	0.9	0.24	A	High Entry/Exit Turnstile	7	79	732	0.9	0.9	0.23	A
	R237A	High Exit Turnstile	1	0	135	0.9	1	0.27	A	High Exit Turnstile	1	0	135	0.9	1	0.27	A
	R237B	Two-way Turnstile	4	37	624	0.9	0.9	0.32	A	Two-way Turnstile	4	37	624	0.9	0.9	0.32	A
	R238	Two-way Turnstile	20	2120	2647	0.9	0.9	0.53	B	Two-way Turnstile	20	2129	2595	0.9	0.9	0.53	B
	R238B	Two-way Turnstile	6	633	332	0.95	0.9	0.38	A	Two-way Turnstile	6	633	332	0.95	0.9	0.38	A
	R239	Two-way Turnstile	12	2501	510	0.9	0.9	0.63	B	Two-way Turnstile	12	2501	510	0.9	0.9	0.63	B
R240	Two-way Turnstile	11	1093	2121	0.9	0.9	0.63	B	Two-way Turnstile	11	1093	2121	0.9	0.9	0.63	B	
R240A	Two-way Turnstile	4	0	790	0.9	1	0.17	A	Two-way Turnstile	4	0	790	0.9	1	0.17	A	
R241A	Two-way Turnstile	5	140	1188	0.95	0.9	0.50	B	Two-way Turnstile	5	140	1188	0.95	0.9	0.50	B	
PM	R233	High Entry/Exit Turnstile	2	327	44	0.8	0.9	0.75	C	High Entry/Exit Turnstile	2	295	49	0.8	0.9	0.68	B
		High Exit Turnstile	1							High Exit Turnstile	1						
	R236	Two-way Turnstile	12	813	722	0.8	0.9	0.30	A	Two-way Turnstile	12	813	722	0.8	0.9	0.30	A
		High Exit Turnstile	1							High Exit Turnstile	1						
	R237	High Entry/Exit Turnstile	7	610	146	0.9	0.9	0.27	A	High Entry/Exit Turnstile	7	583	149	0.9	0.9	0.26	A
	R237A	High Exit Turnstile	1	0	40	0.9	1	0.08	A	High Exit Turnstile	1	0	40	0.9	1	0.08	A
	R237B	Two-way Turnstile	4	371	120	0.9	0.9	0.30	A	Two-way Turnstile	4	371	120	0.9	0.9	0.30	A
	R238	Two-way Turnstile	20	2520	2212	0.9	0.9	0.55	B	Two-way Turnstile	20	2462	2213	0.9	0.9	0.54	B
	R238B	Two-way Turnstile	6	322	258	0.95	0.9	0.22	A	Two-way Turnstile	6	322	258	0.95	0.9	0.22	A
	R239	Two-way Turnstile	12	511	2097	0.9	0.9	0.45	A	Two-way Turnstile	12	511	2097	0.9	0.9	0.45	A
R240	Two-way Turnstile	11	2024	1024	0.9	0.9	0.66	B	Two-way Turnstile	11	2026	1024	0.9	0.9	0.67	B	
R240A	Two-way Turnstile	4	0	760	0.9	1	0.16	A	Two-way Turnstile	4	0	760	0.9	1	0.16	A	
R241A	Two-way Turnstile	5	900	132	0.95	0.9	0.52	B	Two-way Turnstile	5	900	132	0.95	0.9	0.52	B	

Modified Proposal Alternative Subway Stair Analysis  
at the Fifth Avenue (7) Station

Peak Period	Stairway	Width (ft.)	Effective Width (ft.)	No-Action						M.P. Increment		Modified Proposal					
				15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	15-Minute Pedestrian Volumes		15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS
				Down	Up					Down	Up	Down	Up				
AM	S1	12.33	11.08	48	773	0.8	0.9	0.68	B	11	235	59	1008	0.8	0.9	0.88	C
	M1/M2	11.33	10.08	48	773	0.8	0.9	0.75	C	11	235	59	1008	0.8	0.9	0.97	C
	P2	8.25	7.00	16	171	0.75	0.9	0.26	A	3	41	19	212	0.75	0.9	0.32	A
	P3	8.00	6.75	22	164	0.75	0.9	0.26	A	3	40	25	204	0.75	0.9	0.33	A
PM	S1	12.33	10.08	605	194	0.8	0.9	0.62	B	273	20	878	214	0.8	0.9	0.84	C
	M1/M2	11.33	10.08	605	194	0.8	0.9	0.62	B	273	20	878	214	0.8	0.9	0.84	C
	P2	8.25	7.00	147	122	0.75	0.9	0.33	A	46	5	193	127	0.75	0.9	0.38	A
	P3	8.00	6.75	174	82	0.75	0.9	0.31	A	47	5	221	87	0.75	0.9	0.37	A

**Notes:**  
 Methodology based on 2012 CEQR Technical Manual guidelines.  
 Decreases in demand from Existing to No-Action reflect changes in subway ridership patterns due to completion of the Second Avenue subway and other MTA capital improvements.

Modified Proposal Alternative Subway Fare Array Analysis  
at the Fifth Avenue (7) Station

Peak Period	Fare Array	Control Element	Quantity	No-Action						M.P. Increment		Modified Proposal					
				15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	15-Minute Pedestrian Volumes		15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS
				In	Out					In	Out	In	Out				
AM	R501	Two-way Turnstile	8	48	773	0.8	0.9	0.22	A	11	235	59	1008	0.8	0.9	0.29	A
PM	R501	Two-way Turnstile	8	605	194	0.8	0.9	0.25	A	273	20	878	214	0.8	0.9	0.35	A

**Notes:**  
 Methodology based on 2012 CEQR Technical Manual guidelines.  
 Decreases in demand from Existing to No-Action reflect changes in subway ridership patterns due to completion of the Second Avenue subway and other MTA capital improvements.



Modified Proposal Alternative Subway Stair Analysis  
at the 42nd Street - Bryant Park (B,D,F,M) Station

Peak Period	Fare Control Area	Stairway	Width (ft.)	Effective Width (ft.)	No-Action					M.P. Increment		Modified Proposal								
					15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	15-Minute Pedestrian Volumes		15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	WIT (in.)	WIT for Significant Impact (in.)
					Down	Up					Down	Up	Down	Up						
AM	N504	S5	4.92	3.92	51	825	0.9	0.9	1.83	F	4	6	55	831	0.9	0.9	1.85	F	0.54	2
		M6	8.50	7.50	51	825	0.9	0.9	0.96	C	4	6	55	831	0.9	0.9	0.97	C	-	-
		S6	5.00	4.00	16	414	0.9	1.0	0.79	C	1	0	16	414	0.9	1.0	0.79	C	-	-
		M7/M8	8.50	7.50	16	414	0.9	1.0	0.42	A	1	0	16	414	0.9	1.0	0.42	A	-	-
		P1	6.75	5.75	17	337	0.75	1.0	0.54	B	1	1	18	338	0.75	0.9	0.60	B	-	-
		P2	6.75	5.75	19	582	0.75	1.0	0.92	C	1	2	20	584	0.75	1.0	0.93	C	-	-
		P3	6.67	5.67	21	512	0.75	1.0	0.83	C	1	1	22	513	0.75	1.0	0.83	C	-	-
	P4	6.67	5.67	39	578	0.75	0.9	1.06	D	1	2	40	580	0.75	0.9	1.06	D	0.33	8	
	N502	MB20	10.00	8.75	21	707	0.9	1.0	0.61	B	0	21	21	728	0.9	1.0	0.63	B	-	-
		P13	10.00	8.75	27	387	0.75	0.9	0.46	B	0	8	27	395	0.75	0.9	0.47	B	-	-
P14		10.00	8.75	24	856	0.75	1.0	0.89	C	0	13	24	869	0.75	1.0	0.90	C	-	-	
PM	N504	S5	4.92	3.92	794	105	0.9	0.9	1.72	F	8	4	802	109	0.9	0.9	1.75	F	0.63	2
		M6	8.50	7.50	794	105	0.9	0.9	0.90	C	8	4	802	109	0.9	0.9	0.91	C	-	-
		S6	5.00	4.00	242	68	0.9	0.9	0.59	B	0	0	242	68	0.9	0.9	0.59	B	-	-
		M7/M8	8.50	7.50	242	68	0.9	0.9	0.31	A	0	0	242	68	0.9	0.9	0.31	A	-	-
		P1	6.75	5.75	274	158	0.75	0.9	0.62	B	2	1	276	159	0.75	0.9	0.63	B	-	-
		P2	6.75	5.75	157	43	0.75	0.9	0.28	A	1	1	158	44	0.75	0.9	0.28	A	-	-
		P3	6.67	5.67	592	142	0.75	0.9	1.02	D	3	1	595	143	0.75	0.9	1.03	D	0.37	8
	P4	6.67	5.67	457	71	0.75	0.9	0.72	C	2	1	459	72	0.75	0.9	0.73	C	-	-	
	N502	MB20	10.00	8.75	595	70	0.9	0.9	0.57	B	22	-1	617	69	0.9	0.9	0.59	B	-	-
		P13	10.00	8.75	672	66	0.75	0.9	0.64	B	14	-1	686	66	0.75	0.9	0.66	B	-	-
P14		10.00	8.75	342	111	0.75	0.9	0.41	A	9	-1	351	110	0.75	0.9	0.42	A	-	-	

Notes:  
Methodology based on 2012 CEQR Technical Manual guidelines.

Modified Proposal Alternative Subway Fare Array Analysis  
at the 42nd Street - Bryant Park (B,D,F,M) Station

Peak Period	Fare Array	Control Element	Quantity	No-Action					M.P. Increment		Modified Proposal						
				15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	15-Minute Pedestrian Volumes		15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS
				In	Out					In	Out	In	Out				
AM	N502	Two-way Turnstile	5	56	1327	0.9	1.0	0.33	A	0	21	56	1348	0.9	1.0	0.33	A
		High Entry/Exit Turnstile	1														
		High Exit Turnstile	2														
	N504	Two-way Turnstile	6	65	2581	0.9	1.0	0.54	B	4	6	69	2587	0.9	1.0	0.54	B
		High Entry/Exit Turnstile	3														
		High Exit Turnstile	0														
PM	N502	Two-way Turnstile	5	977	190	0.9	0.9	0.51	B	22	-1	999	189	0.9	0.9	0.52	B
		High Entry/Exit Turnstile	1														
		High Exit Turnstile	2														
	N504	Two-way Turnstile	6	2007	187	0.9	0.9	0.72	C	8	4	2015	191	0.9	0.9	0.72	C
		High Entry/Exit Turnstile	3														
		High Exit Turnstile	0														

Notes:  
Methodology based on 2012 CEQR Technical Manual guidelines

Modified Proposal Alternative Subway Stair Analysis  
at the 47-50th Street - Rockefeller Center (B,D,F,M) Station

Peak Period	Stairway	Width (ft.)	Effective Width (ft.)	No-Action						M.P. Increment		Modified Proposal							
				15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	15-Minute Pedestrian Volumes		15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	WIT (in.)	WIT for Significant Impact (in.)
				Down	Up					Down	Up	Down	Up						
AM	S1	5.00	4.00	24	568	0.9	1.0	1.09	D	-1	33	24	601	0.9	1.0	1.15	D	2.68	7
	S6	5.00	4.00	21	371	0.9	0.9	0.80	C	3	42	24	413	0.9	0.9	0.89	C	-	-
	M1	12.00	10.75	45	939	0.9	1.0	0.67	B	3	74	48	1013	0.9	1.0	0.73	C	-	-
	S3	4.33	3.33	18	593	0.9	1.0	1.35	E	0	2	18	595	0.9	1.0	1.36	E	0.13	5
	M3	11.92	10.67	18	593	0.9	1.0	0.42	A	0	2	18	595	0.9	1.0	0.42	A	-	-
	P1	6.67	5.67	14	1483	0.75	1.0	2.34	F	2	33	16	1516	0.75	1.0	2.40	F	1.59	2
	P2	6.67	5.67	303	994	0.75	0.9	2.13	F	0	8	303	1002	0.75	0.9	2.14	F	0.42	2
	P3	8.83	7.58	13	1258	0.75	1.0	1.49	E	1	28	14	1286	0.75	1.0	1.52	E	2.08	3
P4	8.83	7.58	449	789	0.75	0.9	1.47	E	0	8	449	797	0.75	0.9	1.48	E	0.59	4	
PM	S1	5.00	4.00	635	31	0.9	1.0	1.12	D	37	-1	672	31	0.9	1.0	1.18	D	2.67	7
	S6	5.00	4.00	363	23	0.9	0.9	0.72	C	49	4	412	27	0.9	0.9	0.82	C	-	-
	M1	12.00	10.75	999	54	0.9	0.9	0.73	C	86	3	1085	57	0.9	1.0	0.71	C	-	-
	S3	4.33	3.33	518	46	0.9	0.9	1.26	D	2	3	520	49	0.9	0.9	1.28	D	0.35	6
	M3	11.92	10.67	518	46	0.9	0.9	0.40	A	2	3	520	49	0.9	0.9	0.40	A	-	-
	P1	6.67	5.67	841	90	0.75	0.9	1.26	D	9	1	850	91	0.75	0.9	1.27	D	0.73	6
	P2	6.67	5.67	1046	98	0.75	0.9	1.54	E	21	3	1067	101	0.75	0.9	1.57	E	1.43	3
	P3	8.83	7.58	851	155	0.75	0.9	1.03	D	9	1	860	156	0.75	0.9	1.04	D	0.90	5
P4	8.83	7.58	463	147	0.75	0.9	0.64	B	49	1	512	148	0.75	0.9	0.69	B	-	-	

Notes:  
Methodology based on 2012 CEQR Technical Manual guidelines.

**Modified Proposal Alternative Subway Escalator Analysis  
at the 51st Street (6) Station**

Peak Period	Escalator	Width (in.)	Feet Per Minute	Guideline Capacity	No-Action				M.P. Increment	Modified Proposal				
					15-Minute Pedestrian Volumes	Surging Factor	V/C Ratio	LOS	15-Minute Pedestrian Volumes	15-Minute Pedestrian Volumes	Surging Factor	V/C Ratio	LOS	V/C Ratio Increase
AM	E233 (UP)	40	90	945	725	0.8	0.96	C	0	725	0.8	0.96	C	-
	E252 (UP)*	40	90	945	1278	0.8	1.69	F	-	-	-	-	-	-
PM	E233 (UP)	40	90	945	554	0.8	0.73	C	0	554	0.8	0.73	C	-
	E252 (UP)*	40	90	945	441	0.8	0.58	B	-	-	-	-	-	-

**Notes:**

Methodology based on 2012 CEQR Technical Manual guidelines.

Decreases in demand from Existing to No-Action reflect changes in subway ridership patterns due to completion of the Second Avenue subway and other MTA capital improvements.

\* Escalator E252 is eliminated by the widening of stair U1 under the Modified Proposal Alternative.

Modified Proposal Alternative Subway Fare Array Analysis  
at the 47-50th Street - Rockefeller Center (B,D,F,M) Station

Peak Period	Fare Array	Control Element	Quantity	No-Action						M.P. Increment		Modified Proposal					
				15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	15-Minute Pedestrian Volumes		15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS
				In	Out					In	Out	In	Out				
AM	N501	Two-way Turnstile	8	53	2584	0.9	1.0	0.40	A	3	76	56	2660	0.9	1.0	0.42	A
		High Entry/Exit Turnstile	2														
		High Exit Turnstile	2														
PM	N501	Two-way Turnstile	8	1703	132	0.9	0.9	0.51	B	88	6	1791	138	0.9	0.9	0.54	B
		High Entry/Exit Turnstile	2														
		High Exit Turnstile	2														

**Notes:**  
Methodology based on 2012 CEQR Technical Manual guidelines.

Modified Proposal Alternative Subway Stair Analysis  
at the 51st Street (6) Station

Peak Period	Fare Control Area	Stairway	Width (ft.)	Effective Width (ft.)	No-Action					M.P. Increment		Modified Proposal								
					15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	WIT (in.)	WIT for Significant Impact (in.)		
					Down	Up					Down	Up								
AM	R243	S2	5.17	4.17	32	286	0.75	0.9	0.73	C	2	35	34	321	0.75	0.9	0.82	C	-	-
		S5	4.08	3.08	17	202	0.75	0.9	0.69	B	0	0	17	202	0.75	0.9	0.69	B	-	-
		M2	9.83	8.58	49	489	0.75	0.9	0.60	B	2	35	51	524	0.75	0.9	0.65	B	-	-
	R242A	O1/O2	10.00	8.75	73	790	0.75	0.9	0.95	C	-2	54	71	844	0.75	0.9	1.01	D	0.3	8
		M7	21.33	18.83	71	777	0.75	0.9	0.44	A	-2	54	69	831	0.75	0.9	0.46	B	-	-
		P3	18.08	15.58	71	777	0.75	0.9	0.53	B	-2	54	69	831	0.75	0.9	0.56	B	-	-
	N305A	U1*	4.17	3.17	910	45	0.75	1.0	2.65	F	0	0	910	1323	0.75	0.9	1.39	E	-	-
O4		10.00	9.00	1246	242	0.75	0.9	1.29	D	0	0	1246	242	0.75	0.9	1.29	D	-	-	
PM	R243	S2	5.17	4.17	284	121	0.75	0.9	0.79	C	63	-3	347	118	0.75	0.9	0.90	C	-	-
		S5	4.08	3.08	112	84	0.75	0.9	0.54	B	0	0	112	84	0.75	0.9	0.54	B	-	-
		M2	9.83	8.58	394	205	0.75	0.9	0.58	B	63	-3	457	202	0.75	0.9	0.63	B	-	-
	R242A	O1/O2	10.00	8.75	235	90	0.75	0.9	0.30	A	41	5	276	95	0.75	0.9	0.34	A	-	-
		M7	21.33	18.83	231	85	0.75	0.9	0.14	A	41	5	272	90	0.75	0.9	0.15	A	-	-
		P3	18.08	15.58	231	85	0.75	0.9	0.16	A	41	5	272	90	0.75	0.9	0.19	A	-	-
	N305A	U1*	4.17	3.17	759	4	0.75	1.0	2.14	F	0	0	759	445	0.75	0.9	0.80	C	-	-
O4		10.00	9.00	472	160	0.75	0.9	0.56	B	0	0	472	160	0.75	0.9	0.56	B	-	-	

Notes:

Methodology based on 2012 CEQR Technical Manual guidelines.

Decreases in demand from Existing to No-Action reflect changes in subway ridership patterns due to completion of the Second Avenue subway and other MTA capital improvements.

\* Under the A-Text Alternative, stair U1 is widened from 4.17 feet to 15 feet and escalator E252 is eliminated. No-Action pedestrian volumes on escalator E252 are reflected in stair U1 A-Text pedestrian volumes.

Modified Proposal Alternative Subway Fare Array Analysis  
at the 51st Street (6) Station

Peak Period	Fare Array	Control Element	Quantity	No-Action						M.P. Increment		Modified Proposal					
				15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS		
				In	Out					In	Out						
AM	R242A	Two-way Turnstile	5	71	777	0.75	0.9	0.39	A	-2	54	69	831	0.75	0.9	0.42	A
	R243	Two-way Turnstile	9	38	922	0.75	1.0	0.22	A	2	35	40	957	0.75	1.0	0.23	A
PM	R242A	Two-way Turnstile	5	231	85	0.75	0.9	0.16	A	41	5	272	90	0.75	0.9	0.19	A
	R243	Two-way Turnstile	9	654	372	0.75	0.9	0.29	A	63	-3	717	369	0.75	0.9	0.30	A

**Notes:**  
Methodology based on 2012 CEQR Technical Manual guidelines.

Modified Proposal Alternative Subway Passageway Analysis  
at the 51st Street (6) Station

Passageway	Peak Period	Width (ft.)	Effective Width (ft.)	No-Action					M.P. Increment		Modified Proposal						
				15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	15-Minute Pedestrian Volumes		15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS
				NB	SB					NB	SB	NB	SB				
To/From Lex Ave-53rd St	AM	15.25	13.3	507	485	0.75	0.9	0.43	A	0	0	507	485	0.75	0.9	0.43	A
	PM	15.25	13.3	659	498	0.75	0.9	0.51	B	0	0	659	498	0.75	0.9	0.51	B

**Notes:**

Methodology based on 2012 CEQR Technical Manual guidelines.

Decreases in demand from Existing to No-Action reflect changes in subway ridership patterns due to completion of the Second Avenue subway and other MTA capital improvements.



Modified Proposal Alternative Subway Stair Analysis  
at the Lexington Avenue - 53rd Street (E,M) Station

Peak Period	Stairway	Width (ft.)	Effective Width (ft.)	No-Action						M.P. Increment		Modified Proposal					
				15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS		
				Down	Up					Down	Up						
AM	O7	48.8	46.33	87	641	0.9	0.9	0.13	A	0	2	87	643	0.9	0.9	0.13	A
	P7	3.7	2.67	30	49	0.75	0.9	0.26	A	-1	2	30	51	0.75	0.9	0.27	A
PM	O7	48.8	46.33	721	219	0.9	0.9	0.15	A	3	0	724	219	0.9	0.9	0.15	A
	P7	3.7	2.67	98	20	0.75	0.9	0.35	A	35	0	133	20	0.75	0.9	0.44	A

Notes:

Methodology based on 2012 CEQR Technical Manual guidelines.

Modified Proposal Alternative Subway Fare Array Analysis  
at the Lexington Ave - 53rd St Street (E,M) Station

Peak Period	Fare Array	Control Element	Quantity	No-Action						M.P. Increment		Modified Proposal					
				15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	15-Minute Pedestrian Volumes		15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS
				In	Out					In	Out	In	Out				
AM	N305	Two-way Turnstile	11	83	1310	0.8	0.9	0.28	A	5	101	88	1411	0.8	0.9	0.30	A
PM	N305	Two-way Turnstile	11	622	126	0.8	0.9	0.17	A	116	-3	738	124	0.8	0.9	0.20	A

**Notes:**  
Methodology based on 2012 CEQR Technical Manual guidelines.

Modified Proposal Alternative Subway Escalator Analysis  
at the Lexington Ave - 53rd St Street (E,M) Station

Peak Period	Escalator	Width (in.)	Feet Per Minute	Guideline Capacity	No-Action				M.P. Increment			Modified Proposal							
					15-Minute Pedestrian Volumes	Surging Factor	V/C Ratio	LOS	Reallocated Volumes	New Demand	Total Increment	Width (in.)	Feet Per Minute	Guideline Capacity	15-Minute Pedestrian Volumes	Surging Factor	V/C Ratio	LOS	V/C Ratio Increase
AM	E243 (UP)	40	90	945	1043	0.75	1.47	E	-193	34	-159	40	100	1050	884	0.75	1.12	D	-0.349
	E244 (UP)	40	90	945	1016	0.75	1.43	E	-166	34	-132	40	100	1050	884	0.75	1.12	D	-0.311
	E254X (UP)	24	90	480	516	0.75	1.43	E	334	34	368	40	100	1050	884	0.75	1.12	D	-0.311
	E269 (DN)	40	90	945	910	0.95	1.01	D	-	-2	-2	40	100	1050	909	0.95	0.91	C	-
PM	E243 (UP)	40	90	945	642	0.75	0.91	C	-321	-1	-322	40	100	1050	320	0.75	0.41	A	-
	E244 (DN)	40	90	945	1196	0.95	1.33	E	99	41	140	40	100	1050	1336	0.95	1.34	E	0.007
	E254X (UP)*	24	90	480	197	1.00	0.41	A	124	-1	123	40	100	1050	320	0.75	0.41	A	-
	E269 (DN)	40	90	945	1336	0.95	1.49	E	99	41	140	40	100	1050	1476	0.95	1.48	E	-0.009

**Notes:**  
Methodology based on 2012 CEQR Technical Manual guidelines.  
\* During the PM peak period in the No-Action condition, Escalator 254X operates in the down direction.

### Future With the Modified Proposal Alternative Local Bus Conditions

Peak Hour (1)	Route	Peak Direction	Maximum Load Point	Peak Hour Buses (2)	No-Action Available Capacity (3)	Proposed Action Project Increment	Available Capacity w/Proposed Action (3)	M.P. Increment	Available Capacity w/ Modified Proposal Alternative (3)
AM	M1	NB	Madison Ave & E 58 St	4	72	1	71	1	71
		SB	5 Ave & W 72 St	4	73	13	60	12	61
		SB LTD	5 Ave & W 72 St	7	75	28	47	25	50
	M4	NB	W 32 St & 7 Ave	10	175	3	172	2	173
		SB	5 Ave & W 72 St	6	54	1	53	2	52
		SB LTD	Central Park N & 5 Ave	6	40	32	8	29	11
	M42	EB	W 42 St & Broadway	41	28	92	-64 *	78	-50 *
WB		W 42 St & Broadway	17	49	4	45	6	43	
PM	M1	NB	Madison Ave & E 72 St	6	94	36	58	34	60
		SB	5 Ave & W 72 St	9	102	3	99	4	98
		NB LTD	Madison Ave & E 58 St	6	71	29	42	27	44
	M4	NB	Madison Ave & E 57 St	6	62	45	17	42	20
		SB	5 Ave & W 72 St	8	83	4	79	4	79
		NB LTD	Madison Ave & E 96 St	6	50	38	12	35	15
	M42	EB	W 42 St & Broadway	16	7	6	1	7	0
WB		E 42 St & Lexington Ave	35	6	62	-56 *	54	-48 *	

**Notes:**

(1) Peak hours: weekday 8:00-9:00 AM and 5:00-6:00 PM.

(2) Assumes service levels adjusted to address capacity shortfalls in the No-Action condition.

(3) Available capacity based on MTA NYCT loading guidelines of 54 passengers per standard bus.

\* Denotes a significant adverse impact based on current NYC Transit guidelines.

MODIFIED PROPOSAL ALTERNATIVE SIDEWALK CONDITIONS

Location		Total Width (feet)	Effective Width (feet)	Modified Proposal Alternative Volume Increment			Peak Hour Volumes			Flow Rate (PMF)			Average Flow Level of Service			Platoon-Adjusted Level of Service			
				AM	MD	PM	AM	MD	PM	AM	MD	PM	AM	MD	PM	AM	MD	PM	
(S1) East 43rd Street Second Ave to Third Ave	South	13.0	5.5	67	371	203	981	1242	1137	3.5	4.4	3.9	A	A	A	C	C	C	
(S2) East 42nd Street Second Ave to Third Ave	North	21.5	10.5	326	543	467	1869	1969	2188	4.0	3.8	3.9	A	A	A	C	C	C	
(S3) East 50th Street Third Ave to Lexington Ave	South	12.5	5.5	419	320	509	1143	1328	1392	4.6	5.3	5.1	A	B	B	C	C	C	
(S4) East 49th Street Third Ave to Lexington Ave	North	15.3	6.0	78	364	175	786	1394	1009	2.8	5.3	3.0	A	B	A	B	C	B	
(S5) East 42nd Street Third Ave to Lexington Ave	North	19.8	8.5	217	314	236	4012	2424	4193	8.8	5.2	8.7	C	B	C	D	C	D	
(S6) Lexington Ave East 49th St to East 50th St	West	11.5	5.0	397	268	514	2742	1573	2553	9.9	7.0	9.5	C	B	C	D	D	D	
(S7) East 49th Street Lexington Ave to Park Ave	South	14.8	5.8	376	639	487	1432	1116	1370	5.5	3.6	4.3	B	A	A	C	C	C	
(S8) East 48th Street Lexington Ave to Park Ave	North	14.9	6.3	157	554	343	1025	1117	1223	2.8	3.8	3.6	A	A	A	B	C	C	
(S9) East 47th Street Vanderbilt Ave to Madison Ave	South	15.5	7.5	91	87	114	2866	1808	2964	6.7	4.2	8.6	B	A	C	D	C	D	
(S10) East 45th Street Vanderbilt Ave to Madison Ave	North	15.0	10.5	712	726	818	1557	1941	1633	3.6	3.5	3.1	A	A	A	C	C	C	
(S11) East 44th Street Vanderbilt Ave to Madison Ave	North	15.0	8.8	191	268	180	1351	1392	2057	2.7	2.7	4.1	A	A	A	B	B	C	
(S12) East 43rd Street Vanderbilt Ave to Madison Ave	North	10.0	3.5	229	89	288	3446	1469	3291	19.8	7.4	16.9	E	C	E	F	*	D	E
(S13) East 42nd Street Vanderbilt Ave to Madison Ave	North	22.5	10.0	261	162	249	4825	3698	5839	8.5	6.4	11.3	C	B	D	D	D	E	
(S14) Madison Ave East 45th St to East 46th St	East	20.0	14.2	208	682	206	1948	2298	2275	2.6	2.9	3.0	A	A	A	B	B	B	
(S15) Madison Ave East 42nd St to East 43rd St	West	12.7	4.5	160	109	166	2229	1880	2168	10.9	7.4	9.2	D	C	C	D	D	D	
(S16) East 47th Street Madison Ave to Fifth Ave	South	13.0	5.6	195	153	202	2375	1518	2150	8.0	5.0	6.9	C	A	B	D	C	D	
(S17) East 46th Street Madison Ave to Fifth Ave	North	13.3	5.7	170	252	207	1121	994	1294	3.8	3.1	3.0	A	A	A	C	C	B	
(S18) East 44th Street Madison Ave to Fifth Ave	North	12.0	4.5	426	125	340	1253	841	1395	5.6	3.6	6.3	B	A	B	C	C	D	
(S19) East 43rd Street Madison Ave to Fifth Ave	North	12.0	4.3	315	397	411	2221	1698	2816	10.1	7.1	11.7	D	C	D	D	D	E	
(S20) East 42nd Street Madison Ave to Fifth Ave	North	20.5	10.8	318	108	342	3064	1906	3854	5.2	3.3	6.1	B	A	B	C	C	D	
(S21) East 40th Street Madison Ave to Fifth Ave	South	12.7	5.1	142	164	171	1665	1558	1931	6.3	5.3	6.9	B	B	B	D	C	D	
(S22) East 47th Street Fifth Ave to Sixth Ave	South	17.7	5.2	227	98	256	2025	2138	2531	8.0	7.3	9.5	C	C	C	D	D	D	
(S23) Fifth Ave East 43rd St to East 44th St	West	22.8	16.2	172	128	175	2189	2896	3828	2.7	3.2	4.2	A	A	A	B	C	C	
(S24) Fifth Ave East 43rd St to East 44th St	East	22.5	14.5	301	130	289	2259	2645	2903	3.2	3.4	3.9	A	A	A	C	C	C	
(S25) Fifth Ave East 42nd St to East 43rd St	West	23.3	13.2	241	102	280	2498	1996	2540	3.5	3.4	3.6	A	A	A	C	C	C	
(S26) Fifth Ave East 42nd St to East 43rd St	East	22.3	14.0	496	145	572	1930	2630	2701	2.5	3.6	3.7	A	A	A	B	C	C	
(S27) 42nd Street Fifth Ave to Sixth Ave	South	21.0	10.0	4	39	4	2020	1870	3643	4.7	3.5	6.9	A	A	B	C	C	D	
<b>Number of Sidewalks</b>		<b>27</b>																	
<b>Number of Impacted Sidewalks</b>		<b>1</b>																	

**Notes:**

PMF - pedestrians per minute per foot

\* - denotes a significant adverse impact based on CEQR Technical Manual criteria.

MODIFIED PROPOSAL ALTERNATIVE CROSSWALK CONDITIONS

Intersection	Crosswalk	Modified Proposal Alternative Volume Increment			Peak Hour Volume			Avg. Pedestrian Space (SFP)			Level of Service		
		AM	MD	PM	AM	MD	PM	AM	MD	PM	AM	MD	PM
(1) Second Ave @ East 43rd St	South	33	186	101	571	688	696	25.4	25.0	22.3	C	C	D
	West	33	186	101	809	1012	978	57.9	52.3	51.5	B	B	B
(2) Second Ave @ East 42nd St	North	58	200	157	1230	1102	1282	30.6	41.8	28.9	C	B	C
	West	47	186	143	890	838	1009	64.8	69.2	57.2	A	A	B
(3) Third Ave @ East 50th St	South	74	223	140	541	840	778	52.7	41.0	40.2	B	B	B
	East	-1	99	4	2061	1573	2220	11.9	21.1	12.1	E	D	E
(4) Third Ave @ East 49th St	West	-7	155	0	1612	1867	1650	18.6	20.7	23.5	D	D	D
	North	61	234	113	458	953	664	33.7	16.9	24.9	C	D	* C
(5) Third Ave @ East 42nd St	West	23	190	38	1410	1738	1405	21.1	18.3	23.0	D	D	* D
	North	272	220	381	2860	1290	2743	6.0	17.1	7.4	F	* D	* F
(6) Lexington Ave @ East 50th St	East	64	119	114	2117	1746	1924	20.4	25.5	22.3	D	C	D
	West	64	119	114	2134	1565	2656	17.3	24.7	13.1	D	C	E
(7) Lexington Ave @ East 49th St	North	121	127	177	1408	856	1099	14.6	33.3	20.8	E	* C	D
	South	215	199	248	1116	985	1069	21.4	14.8	24.2	D	E	* C
	East	420	223	532	2575	1949	3089	10.9	10.7	8.0	E	* E	* F
	West	196	193	206	2282	1311	1850	18.3	36.3	24.0	D	* C	D
(8) Lexington Ave @ East 48th St	North	95	268	178	729	1005	652	38.8	24.9	49.1	C	C	B
	South	68	280	168	668	711	650	39.6	47.6	48.6	C	B	B
	East	45	237	109	1070	1367	1517	35.2	25.3	21.7	C	C	D
	West	442	448	616	1766	1389	1903	13.1	22.5	14.0	E	* D	E
(9) Lexington Ave @ East 42nd St	North	92	283	191	763	660	888	45.4	54.3	39.4	B	B	C
	South	27	153	73	516	649	518	25.6	17.6	24.7	C	D	* C
	East	26	194	74	898	1253	1105	41.9	28.6	36.8	B	C	C
	West	49	260	134	917	1019	963	35.9	32.5	37.2	C	C	C
(10) Park Ave @ East 49th St	North	131	116	154	3535	1831	3520	11.1	28.0	13.4	E	C	E
	East	1	-4	1	1602	1461	1570	20.9	26.8	23.6	D	C	D
(13) Madison Ave @ East 47th St	South	10	276	28	611	799	491	39.7	28.5	43.9	C	C	B
	East	37	244	58	2150	1384	2044	19.3	34.4	21.8	D	C	D
(14) Madison Ave @ East 46th St	South	177	156	196	2024	1438	1833	23.0	33.2	25.4	D	C	C
	East	25	154	43	1722	1763	1980	25.9	25.7	22.4	C	C	D
	West	46	280	82	1043	1925	1703	35.9	18.2	18.7	C	D	* D
(15) Madison Ave @ East 45th St	North	113	330	111	979	1060	1013	25.6	26.7	29.9	C	C	C
	South	106	178	131	1365	1281	1396	23.9	26.3	22.1	D	C	D
	East	200	346	222	1716	1616	2245	16.4	19.2	12.4	D	* D	* E
	West	34	239	8	1320	1967	1570	28.0	20.2	22.2	C	D	D
(16) Madison Ave @ East 44th St	North	339	359	329	1807	1624	1540	12.0	13.5	14.7	E	* E	* E
	East	196	456	213	2538	2653	2971	11.8	11.9	10.2	E	* E	* E
	West	68	335	7	985	1663	1377	40.7	22.6	24.3	B	D	C
(17) Madison Ave @ East 43rd St	North	314	144	307	939	675	1093	27.9	36.3	21.0	C	C	D
	East	140	366	165	2055	1815	2442	19.3	22.8	16.8	D	* D	D
	West	126	270	91	1233	1504	1447	36.7	32.6	28.1	C	C	C
(18) Madison Ave @ East 42nd St	North	111	164	142	2077	1309	2148	9.6	18.9	11.1	E	* D	* E
	South	21	166	20	1727	980	1545	16.0	30.6	20.1	D	C	D
	East	102	91	90	1822	1500	1370	19.4	28.2	29.8	D	C	C
	West	180	236	198	1404	1731	1773	18.9	20.7	18.1	D	* D	D
(19) Madison Ave @ East 40th St	North	261	104	297	4290	3165	5610	7.3	13.0	6.3	F	E	F
	South	61	44	64	2562	2148	2822	12.9	18.0	11.0	E	D	E
	East	82	147	92	2692	1978	2632	13.7	24.6	17.5	E	C	D
	West	96	59	114	1689	1675	1745	29.2	37.9	34.3	C	C	C
(20) Fifth Ave @ East 47th St	North	43	89	58	695	1218	974	23.3	12.2	14.8	D	E	* E
	South	95	68	115	970	1213	1093	46.0	30.8	33.3	B	C	C
	West	121	91	151	1206	1794	1343	40.1	19.4	33.3	B	D	C
(21) Fifth Ave @ East 46th St	South	203	101	224	1667	997	1686	7.5	14.1	8.2	F	* E	* E
	East	12	129	24	1075	2126	1802	49.9	25.8	31.5	B	C	C
	West	8	101	13	1101	2828	2682	44.8	15.2	17.5	B	D	D
(22) Fifth Ave @ East 45th St	North	139	135	151	1018	735	1236	41.4	57.3	32.3	B	B	C
	South	94	201	119	1083	1417	1138	19.9	17.7	19.4	D	D	* D
	East	122	84	142	1501	2228	2462	32.3	28.8	23.8	C	C	D
	West	237	131	212	1342	2346	2314	44.8	22.2	22.3	B	D	D
(23) Fifth Ave @ East 44th St	North	135	264	141	1196	1540	1247	29.3	26.7	33.0	C	C	C
	South	90	128	48	997	1223	1285	24.6	27.7	26.3	C	C	C
	East	124	85	113	1538	2213	2120	43.4	29.2	33.7	B	C	C
(24) Fifth Ave @ East 43rd St	North	70	156	31	962	1148	1298	30.5	26.8	21.9	C	C	D
	South	85	168	89	1137	1432	2797	29.7	20.6	10.2	C	D	E
	East	336	170	331	2355	3172	3270	12.8	10.8	9.6	E	* E	* E
	West	135	156	132	1633	2797	3150	26.7	16.9	13.4	C	D	E
(25) Fifth Ave @ East 42nd St	North	40	127	49	2248	1575	1648	15.7	26.2	20.9	D	C	D
	South	45	72	36	1522	856	1625	24.5	42.9	23.0	C	B	D
	East	534	111	601	1445	1795	3124	42.5	38.7	19.6	B	C	D
	West	217	147	242	1774	2245	3380	27.7	25.5	16.1	C	C	D
(26) Fifth Ave @ East 40th St	North	339	119	385	2234	1887	2660	18.0	23.9	15.4	D	* D	D
	South	523	84	612	3004	1554	2896	13.7	31.7	13.3	E	* C	E
	East	400	132	467	2362	2507	3688	24.2	24.2	14.3	C	C	E
	West	543	124	641	2078	1847	2850	27.1	38.5	23.8	C	C	D
(27) Fifth Ave @ East 40th St	South	64	65	78	1624	2024	2106	19.6	14.4	12.4	D	E	E
	East	32	38	38	1323	2206	2159	39.8	21.5	21.5	C	D	D
<b>Number of Crosswalks</b>								76					
<b>Number of Impacted Crosswalks</b>								24					

Notes:

SFP - square feet per pedestrian

\* - denotes a significant adverse impact based on CEQR Technical Manual criteria.

**MODIFIED PROPOSAL ALTERNATIVE CORNER CONDITIONS**

Intersection	Corner	Avg. Pedestrian Space (SFP)			Level of Service		
		AM	MD	PM	AM	MD	PM
(1) Second Ave @ East 43rd St	SW	62.0	59.1	61.0	A	B	A
(2) Second Ave @ East 42nd St	NW	93.6	115.8	90.2	A	A	A
(3) Third Ave @ East 50th St	SE	36.5	39.7	23.9	C	C	D
	SW	100.6	98.1	101.3	A	A	A
(4) Third Ave @ East 49th St	NW	289.2	226.7	290.5	A	A	A
(5) Third Ave @ East 42nd St	NE	34.7	59.1	31.4	C	B	C
	NW	16.7	58.8	29.0	D	* B	C
(6) Lexington Ave @ East 50th St	NE	7.8	17.4	12.0	F	* D	* E *
	NW	12.0	33.5	18.4	E	* C	D *
	SE	15.2	9.8	8.6	D	* E	* E *
	SW	12.4	11.1	14.6	E	* E	* E *
(7) Lexington Ave @ East 49th St	NE	45.7	31.8	39.1	B	C	C
	NW	21.1	25.3	27.4	D	C	C
	SE	43.7	33.0	29.0	B	C	C
	SW	62.8	82.5	61.2	A	A	A
(8) Lexington Ave @ East 48th St	NE	53.4	44.4	45.5	B	B	B
	NW	87.6	87.9	84.9	A	A	A
	SE	47.8	28.6	38.8	B	C	C
	SW	64.4	47.6	65.9	A	B	A
(9) Lexington Ave @ East 42nd St	NE	23.3	40.7	18.6	D	B	D
(10) Park Ave @ East 49th St	SE	38.0	51.9	49.7	C	B	B
(13) Madison Ave @ East 47th St	SE	24.1	33.9	25.4	C	C	C
	SW	49.1	42.9	39.4	B	B	C
(14) Madison Ave @ East 46th St	NE	31.5	38.6	30.4	C	C	C
	NW	58.6	44.8	48.8	B	B	B
	SE	50.3	59.4	45.8	B	B	B
	SW	26.3	23.8	26.2	C	D	C
(15) Madison Ave @ East 45th St	NE	30.9	26.7	26.8	C	C	C
	NW	23.7	15.6	15.0	D	D	* E *
(16) Madison Ave @ East 44th St	NE	59.0	69.6	51.5	B	A	B
	NW	71.8	64.4	48.2	A	A	B
(17) Madison Ave @ East 43rd St	NE	1.8	18.1	14.9	F	* D	* E *
	NW	44.5	49.4	29.1	B	B	C
	SE	36.6	68.5	58.5	C	A	B
	SW	22.0	28.7	20.3	D	C	D
(18) Madison Ave @ East 42nd St	NE	26.1	48.4	27.1	C	B	C
	NW	11.3	23.7	10.6	E	* D	E *
	SE	31.8	59.7	34.5	C	B	C
	SW	131.6	181.9	132.7	A	A	A
(19) Madison Ave @ East 40th St	NW	55.9	25.0	42.7	B	C	B
	SW	82.2	45.9	63.1	A	B	A
(20) Fifth Ave @ East 47th St	SE	46.1	42.9	38.2	B	B	C
	SW	72.4	57.3	53.4	A	B	B
(21) Fifth Ave @ East 46th St	NE	127.7	116.9	90.5	A	A	A
	NW	61.6	38.9	33.7	A	C	C
	SE	49.6	39.3	40.0	B	C	C
	SW	57.8	36.9	37.4	B	C	C
(22) Fifth Ave @ East 45th St	NE	55.4	39.4	45.7	B	C	B
	SE	50.5	40.3	44.7	B	B	B
(23) Fifth Ave @ East 44th St	NE	46.4	38.0	29.7	B	C	C
	NW	60.1	41.8	32.5	A	B	C
	SE	36.9	33.4	23.5	C	C	D
	SW	55.8	38.4	23.7	B	C	D
(24) Fifth Ave @ East 43rd St	NE	44.4	52.5	31.3	B	B	C
	NW	35.8	39.6	25.3	C	C	C
	SE	40.8	57.8	29.6	B	B	C
	SW	49.2	55.2	36.7	B	B	C
(25) Fifth Ave @ East 42nd St	NE	64.1	70.9	43.9	A	A	B
	NW	58.5	71.3	46.4	B	A	B
	SE	49.3	70.1	30.0	B	A	C
	SW	39.6	82.3	49.3	C	A	B
(26) Fifth Ave @ East 40th St	SE	54.6	31.5	27.1	B	C	C
<b>Number of Corners</b>		<b>62</b>					
<b>Number of Impacted Corners</b>		<b>8</b>					

**Notes:**

SFP - square feet per pedestrian

\* - denotes a significant adverse impact based on CEQR Technical Manual criteria.

**Modified Proposal Alternative With Mitigation:**

**Sidewalk Conditions**

Location	Side	No-Action			Modified Proposal Alternative			Modified Proposal Alternative With Mitigation			
		Effective Width	Pedestrian Flow Rate (PMF)	LOS	Effective Width	Pedestrian Flow Rate (PMF)	LOS	Effective Width	Pedestrian Flow Rate (PMF)	LOS	Mitigation Measures
<b>AM Peak Period</b>											
(S12) East 43rd Street Vanderbilt Ave to Madison Ave	North	3.50	18.4	F	3.50	19.8	F	5.00	13.8	E	Mitigated through sidewalk widening.
<b>PM Peak Period</b>											
(S12) East 43rd Street Vanderbilt Ave to Madison Ave	North	3.50	15.4	E	3.50	16.9	E	5.00	11.8	E	Mitigated through sidewalk widening.
<b>Notes:</b>											
PMF - Pedestrians per minute per foot.											



**Modified Proposal Alternative With Mitigation:  
Crosswalk Conditions**

Intersection	Crosswalk	No-Action			Modified Proposal Alternative			Modified Proposal Alternative With Mitigation			See Note	
		Width	Pedestrian Space (SFP)	LOS	Width	Pedestrian Space (SFP)	LOS	Width	Pedestrian Space (SFP)	LOS		Mitigation Measures
<b>AM Peak Period</b>												
(5) Third Ave @ East 42nd St.	North	19.83	6.8	F	19.83	6.0	F	22.33	6.9	F	Mitigated through crosswalk widening.	
(6) Lexington Ave @ East 50th St.	North	11.83	16.2	D	11.83	14.6	E	12.83	15.4	D	Mitigated through crosswalk widening.	3
	East	11.83	13.7	E	11.83	10.9	E	13.83	13.3	E	Mitigated through crosswalk widening.	
	West	15.75	20.6	D	15.75	18.3	D	15.75	16.8	D	Unmitigated.	3
(7) Lexington Ave @ East 49th St.	West	10.50	19.1	D	10.50	13.1	E	14.00	18.7	D	Mitigated through crosswalk widening.	
(14) Madison Ave @ East 46th St.	East	12.58	19.4	D	12.58	16.4	D	15.08	22.5	D	Mitigated through crosswalk widening and changes in signal timing due to traffic mitigation.	
(15) Madison Ave @ East 45th St.	North	13.17	15.4	D	13.17	12.0	E	16.67	12.7	E	Unmitigated. Conditions improved by crosswalk widening but impact would remain unmitigated.	2
	East	12.33	13.1	E	12.33	11.8	E	13.83	15.5	D	Mitigated through crosswalk widening and changes in signal timing due to traffic mitigation.	
(16) Madison Ave @ East 44th St.	East	14.83	21.9	D	14.83	19.3	D	15.33	20.1	D	Mitigated through crosswalk widening.	
(17) Madison Ave @ East 43rd St.	North	13.00	10.4	E	13.00	9.6	E	14.50	9.9	E	Mitigated through crosswalk widening.	2
	South	14.50	16.3	D	14.50	16.0	D	15.00	15.2	D	Mitigated through crosswalk widening.	1
	West	12.17	23.9	D	12.17	18.9	D	12.67	21.2	D	Mitigated through crosswalk widening and changes in signal timing due to traffic mitigation.	
(20) Fifth Ave @ East 47th St.	South	15.00	9.0	E	15.00	7.5	F	16.50	8.4	E	Mitigated through crosswalk widening.	
(23) Fifth Ave @ East 44th St.	East	15.25	16.8	D	15.25	12.8	E	17.75	15.5	D	Mitigated through crosswalk widening.	
(25) Fifth Ave @ East 42nd St.	North	21.00	21.9	D	21.00	18.0	D	23.50	20.5	D	Mitigated through crosswalk widening.	
	South	22.33	17.6	D	22.33	13.7	E	24.83	15.6	D	Unmitigated. Conditions improved by crosswalk widening but impact would remain unmitigated.	
<b>Notes:</b>												
SFP - Square feet per pedestrian.												
1. No significant adverse impact for the MPA condition. Significant adverse impact is due to changes in traffic signal timing as part of traffic mitigation measures.												
2. Impact worsened by traffic mitigation signal timing changes.												
3. Impact worsened by corner mitigation measures.												

**Modified Proposal Alternative With Mitigation:  
Crosswalk Conditions**

Intersection	Crosswalk	No-Action			Modified Proposal Alternative			Modified Proposal Alternative With Mitigation			See Note	
		Width	Pedestrian Space (SFP)	LOS	Width	Pedestrian Space (SFP)	LOS	Width	Pedestrian Space (SFP)	LOS		Mitigation Measures
<b>MD Peak Period</b>												
(4) Third Ave @ East 49th St.	North	15.25	22.8	D	15.25	16.9	D	17.75	19.8	D	Mitigated through crosswalk widening.	
	West	16.25	21.0	D	16.25	18.3	D	17.25	19.7	D	Mitigated through crosswalk widening.	
(5) Third Ave @ East 42nd St.	North	19.83	21.2	D	19.83	17.1	D	22.33	21.2	D	Mitigated through crosswalk widening and changes in signal timing due to traffic mitigation.	
(6) Lexington Ave @ East 50th St.	South	13.42	18.9	D	13.42	14.8	E	15.92	17.3	D	Mitigated through crosswalk widening.	1
	East	11.83	12.5	E	11.83	10.7	E	13.83	13.1	E	Mitigated through crosswalk widening.	
(8) Lexington Ave @ East 48th St.	South	13.50	23.6	D	13.50	17.6	D	15.00	19.8	D	Mitigated through crosswalk widening.	
(13) Madison Ave @ East 47th St.	West	13.00	23.6	D	13.00	18.2	D	14.00	19.8	D	Mitigated through crosswalk widening.	
(14) Madison Ave @ East 46th St.	East	12.58	28.1	C	12.58	19.2	D	15.08	26.2	C	Mitigated through crosswalk widening and changes in signal timing due to traffic mitigation.	
(15) Madison Ave @ East 45th St.	North	13.17	18.2	D	13.17	13.5	E	16.67	17.7	D	Mitigated through crosswalk widening.	
	East	12.33	15.1	D	12.33	11.9	E	13.83	13.8	E	Mitigated through crosswalk widening.	
(17) Madison Ave @ East 43rd St.	North	13.00	22.1	D	13.00	18.9	D	14.50	21.4	D	Mitigated through crosswalk widening.	
(19) Madison Ave @ East 40th St.	North	17.50	13.4	E	17.50	12.2	E	18.00	12.6	E	Mitigated through crosswalk widening.	
(20) Fifth Ave @ East 47th St.	South	15.00	15.9	D	15.00	14.1	E	16.50	15.7	D	Mitigated through crosswalk widening.	
(21) Fifth Ave @ East 46th St.	South	13.00	21.1	D	13.00	17.7	D	14.00	19.3	D	Mitigated through crosswalk widening.	
(23) Fifth Ave @ East 44th St.	East	15.25	13.5	E	15.25	10.8	E	17.75	13.0	E	Mitigated through crosswalk widening.	

**Notes:**  
SFP - Square feet per pedestrian.  
1. Impact worsened by corner mitigation measures.

Modified Proposal Alternative With Mitigation:

Crosswalk Conditions

Intersection	Crosswalk	No-Action			Modified Proposal Alternative			Modified Proposal Alternative With Mitigation			See Note	
		Width	Pedestrian Space (SFP)	LOS	Width	Pedestrian Space (SFP)	LOS	Width	Pedestrian Space (SFP)	LOS		Mitigation Measures
<b>PM Peak Period</b>												
(5) Third Ave @ East 42nd St.	North	19.83	8.9	E	19.83	7.4	F	22.33	8.5	E	Mitigated through crosswalk widening.	
(6) Lexington Ave @ East 50th St.	East	11.83	10.6	E	11.83	8.0	F	13.83	9.8	E	Mitigated through crosswalk widening.	
(7) Lexington Ave @ East 49th St.	West	10.50	23.6	D	10.50	14.0	E	14.00	19.9	D	Mitigated through crosswalk widening.	
(13) Madison Ave @ East 47th St	West	13.00	20.1	D	13.00	18.7	D	14.00	18.5	D	Mitigated through crosswalk widening.	1
(14) Madison Ave @ East 46th St.	East	12.58	16.4	D	12.58	12.4	E	15.08	15.4	D	Mitigated through crosswalk widening.	
(15) Madison Ave @ East 45th St.	North	13.17	19.2	D	13.17	14.7	E	16.67	18.5	D	Mitigated through crosswalk widening.	2
	East	12.33	11.2	E	12.33	10.2	E	13.83	12.2	E	Mitigated through crosswalk widening and changes in signal timing due to traffic mitigation.	
(17) Madison Ave @ East 43rd St.	North	13.00	11.9	E	13.00	11.1	E	14.50	12.1	E	Mitigated through crosswalk widening.	1
	West	12.17	21.3	D	12.17	18.1	D	12.67	19.6	D	Mitigated through crosswalk widening and changes in signal timing due to traffic mitigation.	
(18) Madison Ave @ East 42nd St.	North	21.75	6.7	F	21.75	6.3	F	22.25	6.4	F	Mitigated through crosswalk widening.	
(20) Fifth Ave @ East 47th St.	South	15.00	9.6	E	15.00	8.2	E	16.50	9.2	E	Mitigated through crosswalk widening.	
(21) Fifth Ave @ East 46th St.	South	13.00	22.2	D	13.00	19.4	D	14.00	21.1	D	Mitigated through crosswalk widening.	
(23) Fifth Ave @ East 44th St.	North	15.17	22.4	D	15.17	21.9	D	15.67	19.7	D	Mitigated through crosswalk widening.	1
	South	18.50	10.5	E	18.50	10.2	E	20.00	9.3	E	Unmitigated. Conditions improved by crosswalk widening but impact would remain unmitigated.	1
	East	15.25	12.1	E	15.25	9.6	E	17.75	12.9	E	Mitigated through crosswalk widening and changes in signal timing due to traffic mitigation.	
(25) Fifth Ave @ East 42nd St.	North	21.00	18.1	D	21.00	15.4	D	23.50	16.8	D	Mitigated through crosswalk widening.	2
	South	22.33	18.3	D	22.33	13.3	E	24.83	14.4	E	Unmitigated. Conditions improved by crosswalk widening but impact would remain unmitigated.	2
	East	21.00	16.4	D	21.00	14.3	E	21.50	15.2	D	Mitigated through crosswalk widening and changes in signal timing due to traffic mitigation.	

Notes:

SFP - Square feet per pedestrian.

1. No significant adverse impact for the MPA condition. Significant adverse impact is due to changes in traffic signal timing as part of traffic mitigation measures.

2. Impact worsened by traffic mitigation signal timing changes.

Modified Proposal Alternative With Mitigation:

Corner Conditions

Intersection	Corner	No-Action				Modified Proposal Alternative				Modified Proposal Alternative With Mitigation				See Note	
		Major Width	Minor Width	Pedestrian Space (SFP)	LOS	Major Width	Minor Width	Pedestrian Space (SFP)	LOS	Major Width	Minor Width	Pedestrian Space (SFP)	LOS		Mitigation Measures
<b>AM Peak Period</b>															
(5) Third Ave @ East 42nd St.	Northwest	15.3	19.8	19.9	D	15.3	19.8	16.7	D	15.3	19.8	17.5	D	Unmitigated. Conditions improved by street furniture relocation but impact would remain unmitigated.	
(6) Lexington Ave @ East 50th St.	Northeast	11.8	12.5	11.3	E	11.8	12.5	7.8	F	17.8	12.5	21.3	D	Mitigated through bulb out.	
	Northwest	12.5	13.0	14.8	E	12.5	13.0	12.0	E	12.5	13.0	12.0	E	Unmitigated. Adjacent plaza provides additional queing space therefore no mitigation proposed.	
	Southeast	12.0	12.5	19.4	D	12.0	12.5	15.2	D	18.0	12.5	29.9	C	Mitigated through bulb out.	
	Southwest	11.3	12.5	14.8	E	11.3	12.5	12.4	E	11.3	18.5	26.7	C	Mitigated through bulb out.	
(17) Madison Ave @ East 43rd St.	Northeast	13.3	10.3	2.5	F	13.3	10.3	1.8	F	13.3	10.3	1.4	F	Unmitigated.	1
(18) Madison Ave @ East 42nd St.	Northwest	12.8	20.5	13.4	E	12.8	20.5	11.3	E	12.8	20.5	11.4	E	Unmitigated. Conditions improved by sign relocation but impact would remain unmitigated.	
<b>MD Peak Period</b>															
(6) Lexington Ave @ East 50th St.	Northeast	11.8	12.5	21.1	D	11.8	12.5	17.4	D	17.8	12.5	34.4	C	Mitigated through bulb out.	
	Southeast	12.0	12.5	13.5	E	12.0	12.5	9.8	E	18.0	12.5	22.6	D	Mitigated through bulb out.	
	Southwest	11.3	12.5	16.2	D	11.3	12.5	11.1	E	11.3	18.5	27.5	C	Mitigated through bulb out.	
(15) Madison Ave @ East 45th St.	Northwest	12.8	12.8	22.5	D	12.8	12.8	15.6	D	12.8	18.8	31.8	C	Mitigated through bulb out.	
(17) Madison Ave @ East 43rd St.	Northeast	13.3	10.3	21.4	D	13.3	10.3	18.1	D	13.3	10.3	18.1	D	Unmitigated.	
<b>PM Peak Period</b>															
(6) Lexington Ave @ East 50th St.	Northeast	11.8	12.5	14.9	E	11.8	12.5	12.0	E	17.8	12.5	24.9	C	Mitigated through bulb out.	
	Northwest	12.5	13.0	22.8	D	12.5	13.0	18.4	D	12.5	13.0	18.4	D	Unmitigated. Adjacent plaza provides additional queing space therefore no mitigation proposed.	
	Southeast	12.0	12.5	14.1	E	12.0	12.5	8.6	E	18.0	12.5	21.5	D	Mitigated through bulb out.	
	Southwest	11.3	12.5	20.6	D	11.3	12.5	14.6	E	11.3	18.5	31.1	C	Mitigated through bulb out.	
(15) Madison Ave @ East 45th St.	Northwest	12.8	12.8	18.2	D	12.8	12.8	15.0	E	12.8	18.8	32.7	C	Mitigated through bulb out.	1
(17) Madison Ave @ East 43rd St.	Northeast	13.3	10.3	16.4	D	13.3	10.3	14.9	E	13.3	10.3	14.9	E	Unmitigated.	
(18) Madison Ave @ East 42nd St.	Northwest	12.8	20.5	11.7	E	12.8	20.5	10.6	E	12.8	20.5	10.7	E	Mitigated through sign relocation.	
<b>Notes:</b>															
SFP - square feet per pedestrian.															
1. Impact worsened by traffic mitigation signal timing changes.															

**PCE-Based Noise Level Screening Calculations for  
Modified Proposal Year 2033**









**CEQR Exterior Noise Exposure Assessment for Modified Proposal**



Receptor	Site	Hour	NB L <sub>10</sub>	No Build Category	Build L <sub>10</sub>	Build Category	A-Text L10	A-Text Category	CEQR criteria dB(A)	Building Attenuation Required
571 Madison Avenue	1	Weekday AM	75.6	MARGINALLY UNACCEPTABLE II	75.8	MARGINALLY UNACCEPTABLE II	75.8	MARGINALLY UNACCEPTABLE II	45.0	31.0
		Weekday MD	74.7	MARGINALLY UNACCEPTABLE II	74.7	MARGINALLY UNACCEPTABLE II	74.8	MARGINALLY UNACCEPTABLE II	45.0	31.0
		Weekday PM	74.1	MARGINALLY UNACCEPTABLE II	74.3	MARGINALLY UNACCEPTABLE II	74.3	MARGINALLY UNACCEPTABLE II	45.0	31.0
300 Park Avenue	2	Weekday AM	75.3	MARGINALLY UNACCEPTABLE II	75.3	MARGINALLY UNACCEPTABLE II	75.3	MARGINALLY UNACCEPTABLE II	45.0	31.0
		Weekday MD	74.1	MARGINALLY UNACCEPTABLE II	74.2	MARGINALLY UNACCEPTABLE II	74.1	MARGINALLY UNACCEPTABLE II	45.0	31.0
		Weekday PM	74.1	MARGINALLY UNACCEPTABLE II	74.2	MARGINALLY UNACCEPTABLE II	74.2	MARGINALLY UNACCEPTABLE II	45.0	31.0
541 Lexington Avenue	3	Weekday AM	76.8	MARGINALLY UNACCEPTABLE III	77.1	MARGINALLY UNACCEPTABLE III	77.0	MARGINALLY UNACCEPTABLE III	45.0	33.0
		Weekday MD	75.0	MARGINALLY UNACCEPTABLE II	75.2	MARGINALLY UNACCEPTABLE II	75.1	MARGINALLY UNACCEPTABLE II	45.0	31.0
		Weekday PM	76.0	MARGINALLY UNACCEPTABLE II	76.1	MARGINALLY UNACCEPTABLE III	76.1	MARGINALLY UNACCEPTABLE III	45.0	33.0
361 Madison Avenue	4	Weekday AM	76.7	MARGINALLY UNACCEPTABLE III	77.2	MARGINALLY UNACCEPTABLE III	77.2	MARGINALLY UNACCEPTABLE III	45.0	33.0
		Weekday MD	74.5	MARGINALLY UNACCEPTABLE II	75.1	MARGINALLY UNACCEPTABLE II	75.1	MARGINALLY UNACCEPTABLE II	45.0	31.0
		Weekday PM	75.2	MARGINALLY UNACCEPTABLE II	75.9	MARGINALLY UNACCEPTABLE II	75.9	MARGINALLY UNACCEPTABLE II	45.0	31.0
52 Vanderbilt Avenue	5	Weekday AM	75.9	MARGINALLY UNACCEPTABLE II	75.0	MARGINALLY UNACCEPTABLE II	75.0	MARGINALLY UNACCEPTABLE II	45.0	31.0
		Weekday MD	72.8	MARGINALLY UNACCEPTABLE I	72.0	MARGINALLY UNACCEPTABLE I	72.0	MARGINALLY UNACCEPTABLE I	45.0	28.0
		Weekday PM	70.9	MARGINALLY UNACCEPTABLE I	69.1	ACCEPTABLE	69.1	ACCEPTABLE	45.0	25.0



## Modified Proposal Alternative Special Permit Scenario



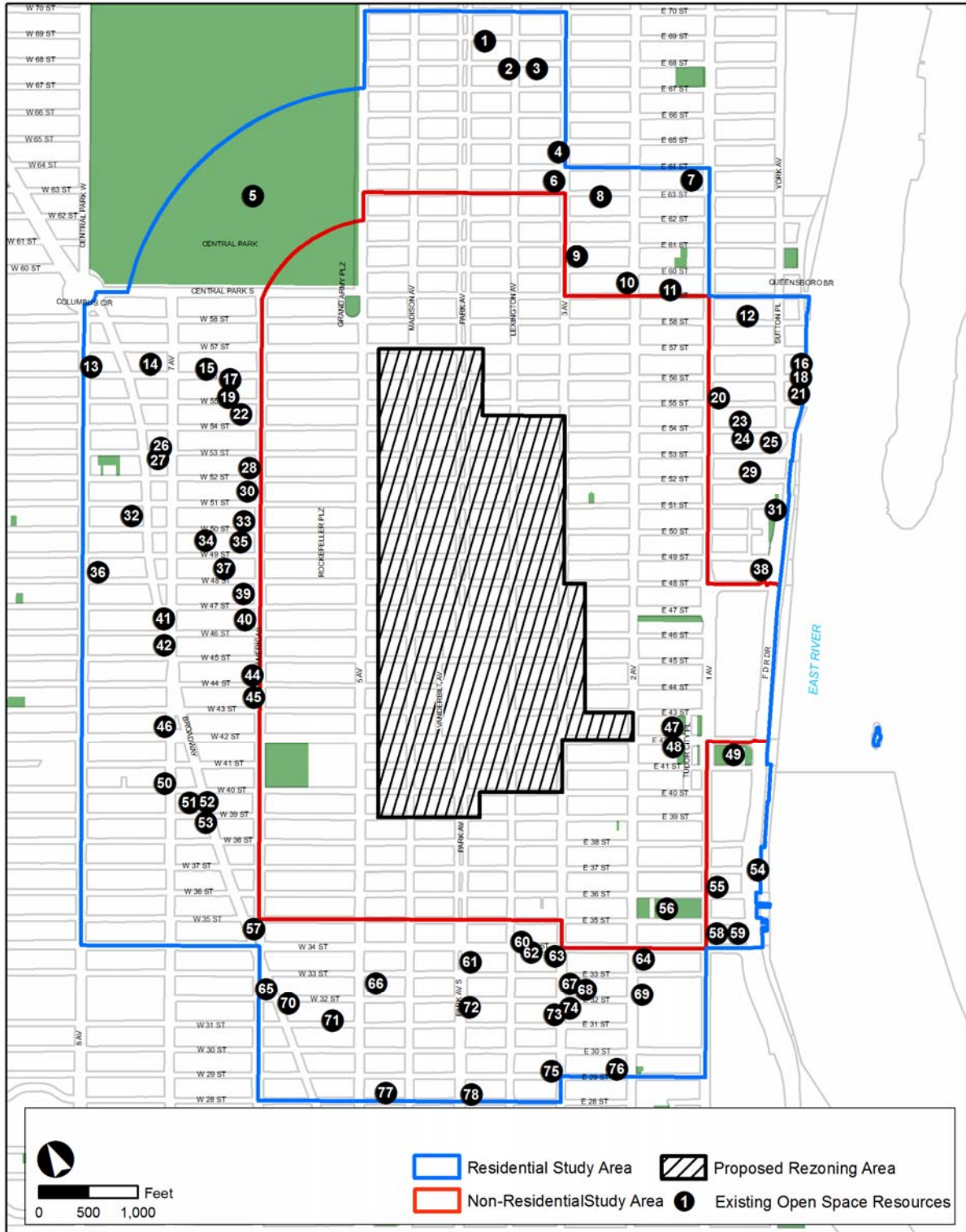
**SUMMARY OF OPEN SPACE USER GROUPS WITHIN THE NON-RESIDENTIAL AND RESIDENTIAL STUDY AREAS – EXISTING, NO-ACTION, AND WITH-ACTION CONDITIONS FOR THE MODIFIED PROPOSAL ALTERNATIVE CONCEPTUAL ANALYSIS**

User Group	Study Area Population		
	Existing	No-Action	With-Action
<b>Non-Residential Study Area</b>			
Non-residents <sup>(1)</sup>	542,545	553,127	568,506
Residents <sup>(2)</sup>	61,754	67,695	68,251
<b>TOTAL</b>	<b>604,299</b>	<b>620,822</b>	<b>636,756</b>
<b>Residential Study Area</b>			
Non-residents <sup>(1)</sup>	961,092	971,674	987,053
Residents <sup>(2)</sup>	128,852	134,793	135,349
<b>TOTAL</b>	<b>1,089,944</b>	<b>1,106,467</b>	<b>1,122,401</b>

**Sources:** See notes below.

1. The non-residential population comprises a combination of workers, college/post-secondary students, and visitors. The existing worker population was calculated based on private-sector employment data compiled by DCP from the New York State Department of Labor, Quarterly Census of Employment and Wages, Quarter 3, 2010. The number of estimated workers in the No-Action condition was based on information provided in respective environmental review documents or, if unavailable, standard employee generation rates of 1 employee per 250 SF of office, 3 employees per 1,000 SF of retail, 1 employee per 2.67 hotel rooms, 1 employee per 25 residential units, 1 employee per 1,000 SF of community facility uses, and 1 employee per 10,000 SF of parking floor area. (Refer to Table 4-8 in Chapter 4, "Open Space," for an inventory of No-Action development projects.) The number of estimated workers in the With-Action condition was based on these aforementioned standard employee generation rates. The existing college/post-secondary student population was aggregated from data provided in the 2011 *Manhattan Community District Profiles* for Districts 5, 6, and 8, supplemented with information obtained from the administrative offices of additional educational institutions identified within the study areas. The No-Action development projects and the Modified Proposal Alternative Conceptual Analysis RWCDs do not include any college/post-secondary school uses, and thus there are no estimated college/post-secondary students associated with the No-Action development projects or the Modified Proposal Alternative Conceptual Analysis RWCDs. The existing visitor population represents an estimate of the number of hotel guests, calculated as the number of hotel rooms (from New York Hotel Guide) multiplied by an 89.2 percent occupancy rate (from New York City Economic Development Corporation, November 2012 Economic Snapshot) multiplied by 2 people per occupied hotel room (from *Special West Chelsea District Rezoning and High Line Open Space Environmental Impact Statement*, 2004). The number of estimated visitors in the No-Action and With-Action conditions was based on this aforementioned hotel guest generation rate.
2. The existing residential population was tabulated using the 2010 Census. The number of estimated residents in the No-Action condition was based on information provided in respective environmental review documents or, if unavailable, an assumption of 1.59 residents per dwelling unit, based on an average number of residents per occupied housing unit calculated from 2010 Census data for the rezoning area. The number of estimated residents in the With-Action condition was based on this aforementioned resident generation rate.

**ADDITIONAL OPEN SPACE RESOURCES WITHIN THE RESIDENTIAL STUDY AREA FOR THE MODIFIED PROPOSAL  
ALTERNATIVE CONCEPTUAL ANALYSIS**



Sources: DCP; DPR open space database



**INVENTORY OF ADDITIONAL OPEN SPACE RESOURCES WITHIN THE RESIDENTIAL STUDY AREA FOR THE MODIFIED PROPOSAL ALTERNATIVE CONCEPTUAL ANALYSIS**

MAP NO <sup>(1)</sup>	NAME/LOCATION	OWNER	DESCRIPTION	TOTAL ACRES	% PASSIVE	PASSIVE ACRES	% ACTIVE	ACTIVE ACRES
1	681 Park Avenue	NYC Agency Properties	Plaza	0.43	100%	0.43	0%	0.00
2	904 Lexington Avenue	DASNY	Plaza	0.07	100%	0.07	0%	0.00
3	163 East 67th Street	Cong Zichron Ephraim	Plaza	0.10	100%	0.10	0%	0.00
4	160 East 65th Street	Phoenix Owners Corp	Plaza	0.15	100%	0.15	0%	0.00
5	Central Park, Central Park South to 67th Street <sup>(2)</sup>	NYCDPR	Park	68.98	50%	34.49	50%	34.49
6	188 East 64th Street	The Royale Condominium	Plaza	0.06	100%	0.06	0%	0.00
7	340 East 64th Street	Bhasin Ramit	Plaza	0.20	100%	0.20	0%	0.00
8	220 East 63rd Street	63rd Street Owner, LLC	Plaza	0.07	100%	0.07	0%	0.00
9	200 East 61st Street	Condominium	Plaza	0.04	100%	0.04	0%	0.00
10	Tramway Plaza, Second Avenue between East 59th and East 60th Streets	NYCDPR	Plaza	0.45	100%	0.45	0%	0.00
11	14 Honey Locusts Park, East 59th Street between First and Second Avenues	NYCDPR	Park	0.29	100%	0.29	0%	0.00
12	425 East 58th Street	Soverign Apartments	Plaza, Park	0.04	100%	0.04	0%	0.00
13	1755 Broadway	Illertissen Holding Co	Plaza	0.12	100%	0.12	0%	0.00
14	888 Seventh Avenue	Sungard Data Systems	Plaza	0.37	100%	0.37	0%	0.00
15	156 West 56th Street	Cityspire	Plaza, Through Block Connection	0.10	100%	0.10	0%	0.00
16	Sutton Place Park, East River between East 57th and East 57th Streets	NYCDPR	Park	0.34	100%	0.34	0%	0.00
17	127 West 55th Street	125 West 55th Street	Plaza	0.05	100%	0.05	0%	0.00
18	Sutton Parks (Five Parks), Sutton Place from East 53rd Street to East 57th Street	NYCDPR	Vest pocket-parks	0.85	100%	0.85	0%	0.00
19	125 West 55th Street	125 West 55th Street	Through Block Connection	0.06	100%	0.06	0%	0.00
20	400 East 56th Street	Plaza 400 Owners Corp	Plaza	0.13	100%	0.13	0%	0.00
21	25 Sutton Place South	Cannon Point North In	Plaza	0.26	100%	0.26	0%	0.00
22	1345 Sixth Avenue	1345 Leasehold LLC	Plaza	0.73	100%	0.73	0%	0.00
23	415 East 54th Street	St James	Plaza	0.12	100%	0.12	0%	0.00
24	400 East 54th Street	Condominium	Plaza	0.65	100%	0.65	0%	0.00
25	420 East 54th Street, River Tower	EQR-Rivertower, LLC	Plaza	0.10	100%	0.10	0%	0.00
26	1700 Broadway	Shubert Foundation Inc	Plaza	0.11	100%	0.11	0%	0.00
27	810 Seventh Avenue	SLG 810 Seventh Lesse	Plaza	0.19	100%	0.19	0%	0.00
28	1301 Sixth Avenue	1301 Properties Owner	Plaza	0.37	100%	0.37	0%	0.00
29	429 East 52nd Street, Rivercourt	S&M 52nd Fee LLC	Plaza	0.11	100%	0.11	0%	0.00

30	1285 Sixth Avenue	1285 LLC	Plaza, Through Block Connection	0.26	100%	0.26	0%	0.00
31	Peter Detmold Park, FDR Drive between East 49th and East 51st Streets	NYCDPR	Park	0.59	75%	0.44	25%	0.15
32	1633 Broadway, Paramount	PGREF I 1633 Broadway	Plaza	0.55	100%	0.55	0%	0.00
33	1261 Avenue of the Americas	Rockefeller Ctr North	Plaza	0.48	100%	0.48	0%	0.00
34	745 Seventh Avenue	Long Island Holding A	Plaza, Through Block Connection	0.37	100%	0.37	0%	0.00
35	1251 Sixth Avenue	Condominium	Plaza	0.95	100%	0.95	0%	0.00
36	235 West 48th Street	CS Ritz Residences LLC	Plaza	0.12	100%	0.12	0%	0.00
37	1221 Sixth Avenue, McGraw Hill	1221 Avenue Holdings	Plaza, Through Block Connection	0.76	100%	0.76	0%	0.00
38	MacArthur Park, FDR Drive between East 48th and East 49th Streets	NYCDPR	Park	0.33	0%	0.00	100%	0.33
39	1211 Avenue of the Americas	1211 6th Avenue Syndi	Plaza	0.50	100%	0.50	0%	0.00
40	1185 Sixth Avenue	SL Green Realty Corp	Plaza	0.37	100%	0.37	0%	0.00
41	Father Duffy Square Broadway to Seventh Avenue, between West 46th and West 47th Streets	NYCDPR	Plaza	0.08	100%	0.08	0%	0.00
42	1535 Broadway, Marriott Marquis	Times Square HMC Hotel	Plaza	0.33	100%	0.33	0%	0.00
44	1155 Sixth Avenue	DOLP 1155 Properties	Plaza	0.28	100%	0.28	0%	0.00
45	1133 Sixth Avenue	DOLP 1133 Properties	Plaza	0.05	100%	0.05	0%	0.00
46	3 Times Square	42nd St. Development	Plaza	0.21	100%	0.21	0%	0.00
47	Mary O'Connor Playground, East 42nd Street between First and Second Avenues <sup>(3)</sup>	NYCDPR	Playground	0.25	0%	0.00	100%	0.25
48	Tudor Grove Playground, East 42nd Street between First and Second Avenues <sup>(3)</sup>	NYCDPR	Playground	0.20	0%	0.00	100%	0.20
49	Robert Moses Playground, First Avenue between East 41st and East 42nd Streets	NYCDPR	Playground	1.34	10%	0.13	90%	1.21
50	560 7th Avenue	New School For Soc Re	Plaza	0.04	100%	0.04	0%	0.00
51	1411 Broadway	1411 Broadway Association	Plaza	0.62	100%	0.62	0%	0.00
52	Broadway between West 33rd Street and West 45th Street	NYCDOT	Plaza	1.57	100%	1.57	0%	0.00
53	1407 Broadway	1407 Broadway	Plaza	0.03	100%	0.03	0%	0.00
54	East River Esplanade, FDR Drive between East 36th and East 37th Streets	NYCDPR	Park	0.62	50%	0.31	50%	0.31
55	630 First Avenue Manhattan Place	Anthony Paul Giorgio	Plaza	0.33	100%	0.33	0%	0.00
56	St. Vartan Park, East 35th Street to East 36th Street, between First and Second Avenues <sup>(3)</sup>	NYCDPR	Park	2.76	0%	0.00	100%	2.76

57	Herald Square, Broadway to Sixth Avenue, between West 34th and West 35th Streets	NYCDPR	Park	0.21	100%	0.21	0%	0.00
58	Rivergate - Joseph Slifka Park, First Avenue between East 34th and East 35th Streets	Rivergate LP	Park	0.54	40%	0.22	60%	0.32
59	606 1st Avenue	UDR Rivergate LLC	Plaza	0.23	100%	0.23	0%	0.00
60	243 Lexington Avenue	National Center Found	Plaza	0.04	100%	0.04	0%	0.00
61	3 Park Avenue	Condominium	Plaza	0.34	100%	0.34	0%	0.00
62	150 East 34th Street	150 East 34th Street	Plaza	0.04	100%	0.04	0%	0.00
63	166 East 34th Street	DS & D Land Company	Plaza	0.06	100%	0.06	0%	0.00
64	300 East 34th Street	HKAL 34th Street Limi	Plaza	0.18	100%	0.18	0%	0.00
65	Greeley Square Park Broadway to Sixth Avenue, between West 32nd and West 34th Streets	NYCDPR	Park	0.14	100%	0.14	0%	0.00
66	325 Fifth Avenue	Condominium	Plaza	0.24	100%	0.24	0%	0.00
67	200 East 33rd Street	Plaza Realty Investors	Plaza	0.17	100%	0.17	0%	0.00
68	PS 116 Playground, 210 East 33rd Street	NYCDOE	Playground	0.37	0%	0.00	100%	0.37
69	333 East 30th Street	The Kips Bay Towers C	Plaza	0.03	100%	0.03	0%	0.00
70	1250 Broadway	JT MH 1250 Owner LP	Plaza	0.14	100%	0.14	0%	0.00
71	9 West 31st Street	Tower 31 LLC	Plaza	0.06	100%	0.06	0%	0.00
72	475 Park Avenue South	475 Park Avenue South	Plaza	0.19	100%	0.19	0%	0.00
73	155 East 31st Street	MHP Land Associates	Plaza	0.12	100%	0.12	0%	0.00
74	200 East 32nd Street	Grunfeld Larry	Plaza	0.21	100%	0.21	0%	0.00
75	155 East 29th Street	H & P 29th St Association	Plaza	0.08	100%	0.08	0%	0.00
76	Vincent Albano Jr. Playground, Second Avenue at East 29th Street	NYCDPR	Playground	0.35	0%	0.00	100%	0.35
77	10 East 29th Street	Rose 29 LLC	Plaza	0.14	100%	0.14	0%	0.00
78	407 Park Avenue South	The Ascot Owners Inc	Plaza	0.12	100%	0.12	0%	0.00
<b>TOTAL</b>				<b>93.53</b>	<b>56.44%</b>	<b>52.79</b>	<b>43.56%</b>	<b>40.74</b>

Sources: DCP; DPR open space database

- (1) Refer to “Additional Open Space Resources Within the Residential Study Area for the Modified Proposal Alternative Conceptual Analysis” figure for the locations of open space resources identified in this table. Refer to Figures 4-2 through 4-4, and Tables 4-6 and 4-9, in Chapter 4, “Open Space,” for the locations and an inventory of open space resources within the Non-Residential Study Area.
- (2) As Central Park extends north to 110th Street and west to Central Park West, only the portion that falls within the study area is included in the quantitative analysis. The number of “total acres” refers to the total open space between the Non-Residential and Residential Study Area boundaries.
- (3) These open space resources, while located within the Non-Residential Study Area, are excluded from the quantitative analysis for the Non-Residential Study Area because they comprise 100 percent active open space.

**EXISTING CONDITIONS FOR THE MODIFIED PROPOSAL ALTERNATIVE CONCEPTUAL ANALYSIS: ADEQUACY OF OPEN SPACE RESOURCES**

	Total Population	Open Space Acreage <sup>(1)</sup>			Open Space Ratios Per 1,000 People			CEQR Open Space Ratio Benchmark		
		Total	Passive	Active	Total	Passive	Active	Total	Passive	Active
<b>Non-Residential Study Area</b>										
Non-Residents	542,545	38.21	38.00	0.21	N/A	0.070	N/A	N/A	0.15	N/A
Combined Non-Residents and Residents	604,299				N/A	0.063	N/A	N/A	0.186 <sup>(2)</sup>	N/A
<b>Residential Study Area</b>										
Residents	128,852	131.74	90.79	40.95	1.022	0.705	0.318	2.50	0.50	2.00
Combined Residents and Non-Residents	1,089,944				N/A	0.083	N/A	N/A	0.191 <sup>(2)</sup>	N/A

(1) Excludes six open space resources—comprising 0.94 acres of open space (100% passive)—that are not currently publicly accessible due to construction.

(2) Based on a target open space ratio established by creating a weighted average of the amount of open space necessary to meet the CEQR benchmark of 0.5 acres of passive open space per 1,000 residents and 0.15 acres of passive open space per 1,000 non-residents.

**NO-ACTION CONDITION FOR THE MODIFIED PROPOSAL ALTERNATIVE CONCEPTUAL ANALYSIS: ADEQUACY OF OPEN SPACE RESOURCES**

	Total Population	Open Space Acreage			Open Space Ratios Per 1,000 People			CEQR Open Space Ratio Benchmark		
		Total	Passive	Active	Total	Passive	Active	Total	Passive	Active
<b>Non-Residential Study Area</b>										
Non-Residents	553,127	40.46	40.25	0.21	N/A	0.073	N/A	N/A	0.15	N/A
Combined Non-Residents and Residents	620,822				N/A	0.065	N/A	N/A	0.188 <sup>(1)</sup>	N/A
<b>Residential Study Area</b>										
Residents	134,793	133.34	93.04	40.30	0.989	0.690	0.299	2.50	0.50	2.00
Combined Residents and Non-Residents	1,106,467				N/A	0.084	N/A	N/A	0.193 <sup>(1)</sup>	N/A

(1) Based on a target open space ratio established by creating a weighted average of the amount of open space necessary to meet the CEQR benchmark of 0.5 acres of passive open space per 1,000 residents and 0.15 acres of passive open space per 1,000 non-residents.

**WITH-ACTION CONDITION FOR THE MODIFIED PROPOSAL ALTERNATIVE CONCEPTUAL ANALYSIS: ADEQUACY OF OPEN SPACE RESOURCES**

	Total Population	Open Space Acreage			Open Space Ratios Per 1,000 People			CEQR Open Space Ratio Benchmark		
		Total	Passive	Active	Total	Passive	Active	Total	Passive	Active
<b>Non-Residential Study Area</b>										
Non-Residents	568,506	41.01	40.80	0.21	N/A	0.072	N/A	N/A	0.15	N/A
Combined Non-Residents and Residents	636,756				N/A	0.064	N/A	N/A	0.188 <sup>(1)</sup>	N/A
<b>Residential Study Area</b>										
Residents	135,349	133.89	93.59	40.30	0.989	0.691	0.298	2.50	0.50	2.00
Combined Residents and Non-Residents	1,122,401				N/A	0.083	N/A	N/A	0.192 <sup>(1)</sup>	N/A

(1) Based on a target open space ratio established by creating a weighted average of the amount of open space necessary to meet the CEQR benchmark of 0.5 acres of passive open space per 1,000 residents and 0.15 acres of passive open space per 1,000 non-residents.

**2033 FUTURE WITH THE MODIFIED PROPOSAL ALTERNATIVE CONCEPTUAL ANALYSIS: OPEN SPACE RATIOS SUMMARY**

Ratio	CEQR Open Space Ratio Benchmark	Open Space Ratios Per 1,000 People			Change from No-Action to With-Action	
		Existing	No-Action	With-Action	Absolute Change	Percent Change
<b>Non-Residential Study Area</b>						
Passive Open Space - Non-Residents	0.15	0.070	0.073	0.072	-0.001	-1.37%
Passive Open Space - Combined Non-Residents and Residents	Weighted 0.186 / 0.188 / 0.188 (Existing / No-Action / With-Action) <sup>(1)</sup>	0.063	0.065	0.064	-0.001	-1.54%
<b>Residential Study Area</b>						
Total Open Space - Residents	2.50	1.022	0.989	0.989	0.000	0.00%
Passive Open Space - Residents	0.50	0.705	0.690	0.691	0.001	0.14%
Passive Open Space - Combined Non-Residents and Residents	Weighted 0.191 / 0.193 / 0.192 (Existing / No-Action / With-Action) <sup>(1)</sup>	0.083	0.084	0.083	-0.001	-1.19%
Active Open Space - Residents	2.00	0.318	0.299	0.298	-0.001	-0.33%

(1) Based on a target open space ratio established by creating a weighted average of the amount of open space necessary to meet the CEQR benchmark of 0.5 acres of passive open space per 1,000 residents and 0.15 acres of passive open space per 1,000 non-residents. Since this benchmark depends on the proportion of non-residents and residents in the study area's population, it is different for existing, No-Action, and With-Action conditions for both the non-residential and residential study areas. Each of these ratios is listed in this table.

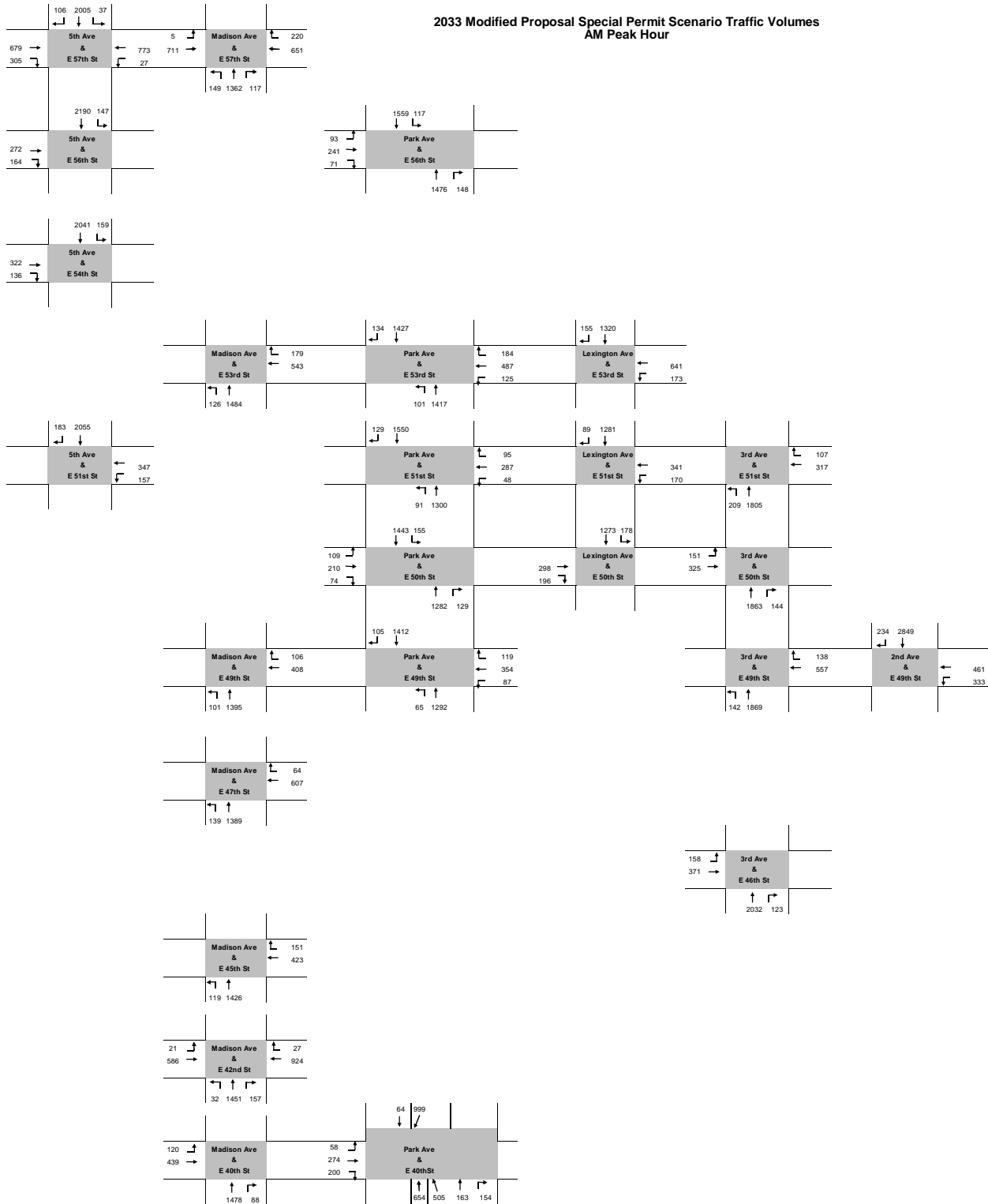
Comparison of Person Trips by Mode  
 Modified Proposal Special Permit vs. Modified Proposal RWCDs

Development Scenario	Auto		Taxi		Bus		Subway		Railroad		Walk/Other		Total		
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out	Total
AM Peak Hour															
Modified Proposal Special Permit	420	101	271	149	923	78	3,090	371	1,172	58	871	508	6,747	1,265	8,012
Modified Proposal RWCDs	453	14	223	-2	1,104	49	3,597	133	1,421	57	837	86	7,635	337	7,972
Difference	-33	87	48	151	-181	29	-507	238	-249	1	34	422	-888	928	40
Midday Peak Hour															
Modified Proposal Special Permit	193	183	293	277	291	302	443	433	2	2	4,092	4,232	5,314	5,429	10,743
Modified Proposal RWCDs	122	127	157	170	342	363	357	374	-1	-1	4,603	4,907	5,580	5,940	11,520
Difference	71	56	136	107	-51	-61	86	59	3	3	-511	-675	-266	-511	-777
PM Peak Hour															
Modified Proposal Special Permit	165	514	251	346	123	1,083	586	3,650	82	1,357	840	1,178	2,047	8,128	10,175
Modified Proposal RWCDs	38	540	10	268	99	1,300	251	4,198	87	1,643	400	1,244	885	9,193	10,078
Difference	127	-26	241	78	24	-217	335	-548	-5	-286	440	-66	1,162	-1,065	97

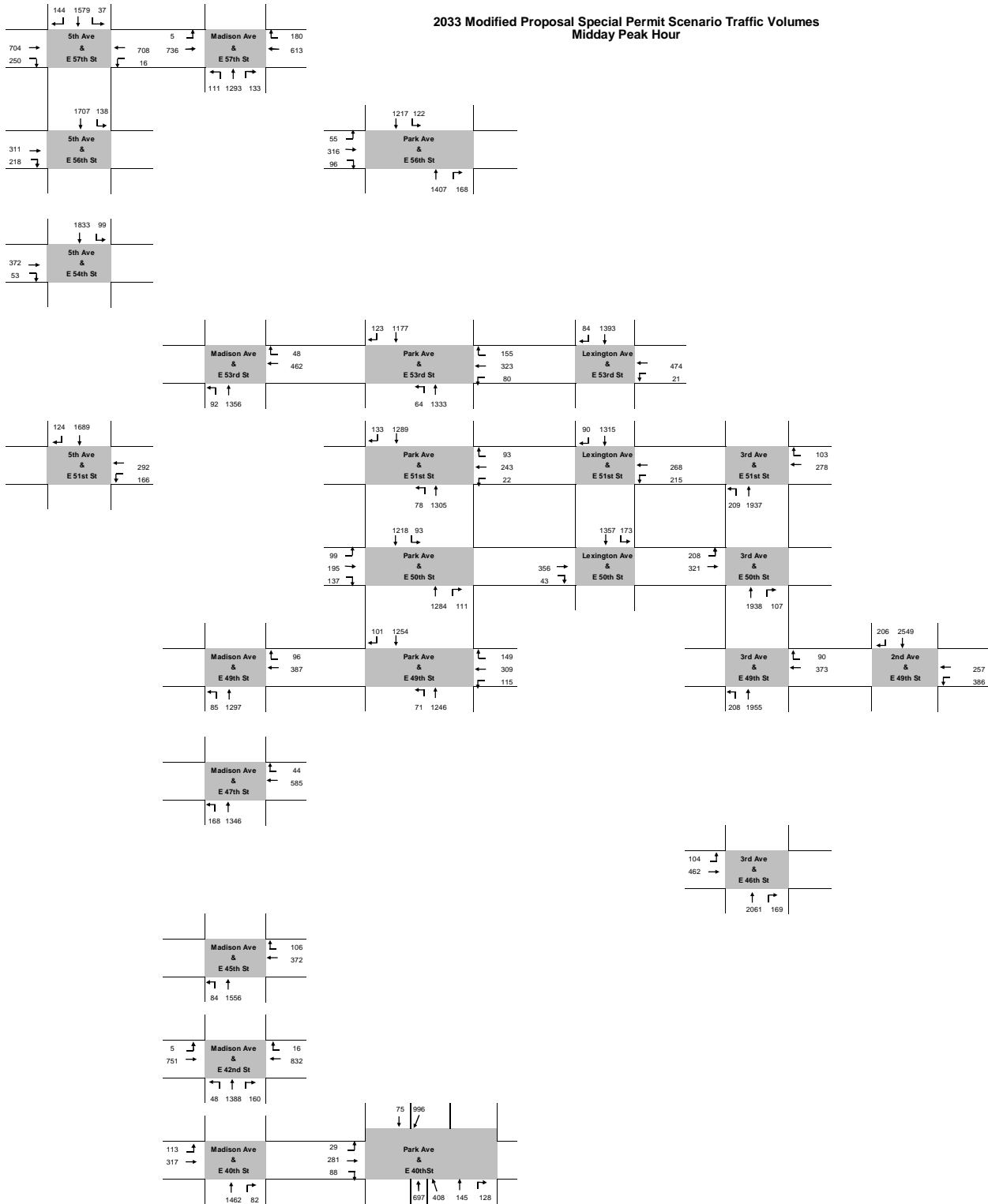


Comparison of Vehicle Trips  
Modified Proposal Special Permit vs. Modified Proposal RWCDs

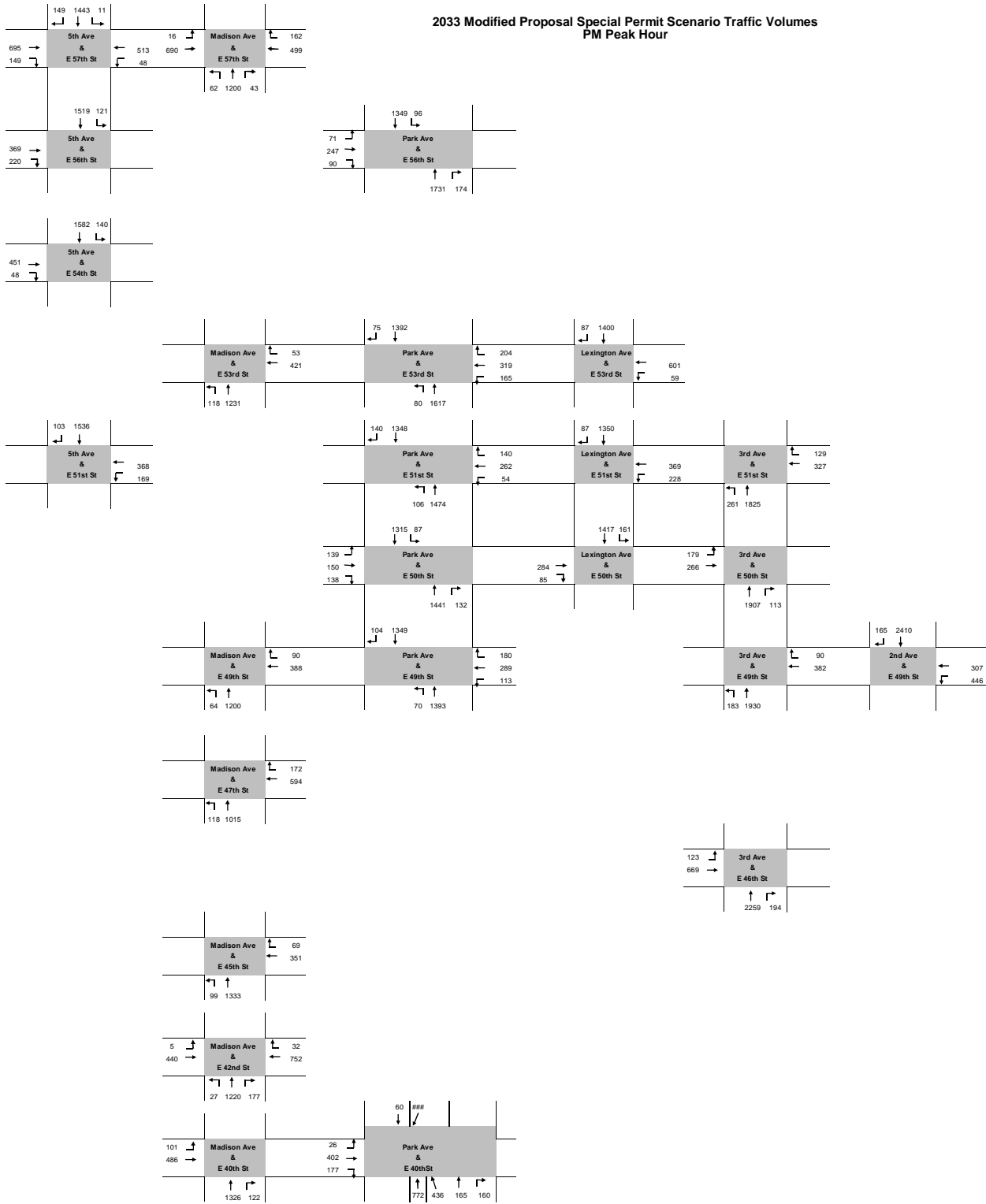
Development Scenario	Auto		Taxi		Truck		Total		
	In	Out	In	Out	In	Out	In	Out	Total
AM Peak Hour									
Modified Proposal Special Permit	343	76	281	281	56	56	680	413	1,093
Modified Proposal RWCDs	376	12	175	175	59	59	610	246	856
Difference	-33	64	106	106	-3	-3	70	167	237
Midday Peak Hour									
Modified Proposal Special Permit	143	137	236	236	59	59	438	432	870
Modified Proposal RWCDs	92	97	155	155	65	65	312	317	629
Difference	51	40	81	81	-6	-6	126	115	241
PM Peak Hour									
Modified Proposal Special Permit	118	413	307	307	11	11	436	731	1,167
Modified Proposal RWCDs	25	441	205	205	12	12	242	658	900
Difference	93	-28	102	102	-1	-1	194	73	267



2033 Modified Proposal Special Permit Scenario Traffic Volumes  
Midday Peak Hour



2033 Modified Proposal Special Permit Scenario Traffic Volumes  
PM Peak Hour



# East Midtown Rezoning and Related Actions FEIS

Level of Service Table - 2033 Modified Proposal Conceptual Alternative Conditions (AM Peak Hour)

Signalized Intersection	Approach	2033 No-Action				Modified Proposal Special Permit				Modified Proposal SP w/ Mitigation			
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
Second Avenue @ East 49th Street	WB	L	1.14	126.4	F	L	1.19	145.0	F	L	1.13	121.0	F
		T	0.53	30.0	C	T	0.59	31.2	C	T	0.57	30.0	C
	SB	T	0.89	17.5	B	T	0.91	18.4	B	T	0.93	20.6	C
		R	0.50	13.3	B	R	0.54	14.3	B	R	0.55	15.4	B
	INTERSECTION			27.9	C			30.6	C			30.1	C
Third Avenue @ East 46th Street	EB	L	0.51	39.7	D	L	0.63	44.4	D				
		T	0.26	13.9	B	T	0.28	14.1	B				
	NB	TR	0.94	32.1	C	TR	0.96	34.6	C				
	INTERSECTION			30.1	C			32.3	C				
Third Avenue @ East 49th Street	WB	T	0.75	24.6	C	T	0.85	31.1	C				
		R	0.61	44.7	D	R	0.61	44.7	D				
	NB	LT	0.90	30.5	C	LT	0.93	33.2	C				
	INTERSECTION			30.1	C			33.3	C				
Third Avenue @ East 50th Street	EB	L	0.26	16.8	B	L	0.29	17.4	B				
		T	0.27	16.3	B	T	0.27	16.4	B				
	NB	T	0.70	18.5	B	T	0.72	18.9	B				
		R	0.54	25.5	C	R	0.54	25.5	C				
	INTERSECTION			18.5	B			18.8	B				
Third Avenue @ East 51st Street	WB	T	0.48	17.9	B	T	0.51	18.5	B				
		R	0.47	38.8	D	R	0.47	38.8	D				
	NB	LT	0.90	28.6	C	LT	0.93	31.4	C				
	INTERSECTION			27.7	C			30.0	C				
Lexington Avenue @ East 50th Street	EB	TR	0.37	20.5	C	TR	0.39	20.7	C	TR	0.61	25.2	C
	SB	LT	0.84	19.9	B	LT	0.88	22.2	C	LT	0.88	22.2	C
	INTERSECTION			20.0	C			21.8	C			23.0	C
Lexington Avenue @ East 51st Street	WB	L	0.77	58.5	E	L	0.79	59.8	E				
		T	0.64	26.9	C	T	0.66	27.6	C				
	SB	T	0.73	17.6	B	T	0.76	18.4	B				
		R	0.48	20.8	C	R	0.48	20.8	C				
	INTERSECTION			23.2	C			23.9	C				
Lexington Avenue @ East 53rd Street	WB	LT	0.79	30.4	C	LT	0.79	30.4	C				
		T	0.71	15.8	B	T	0.74	16.5	B				
	SB	R	0.38	13.3	B	R	0.39	13.4	B				
		INTERSECTION			20.9	C			21.2	C			
Park Avenue @ West 40th Street	EB	LT	0.74	35.8	D	LT	0.78	38.9	D	LT	0.78	38.9	D
		R	0.74	42.0	D	R	0.79	46.8	D	R	0.79	46.8	D
	NB	(Tunnel Exit)	0.84	27.6	C	(Tunnel Exit)	0.84	27.9	C	(Tunnel Exit)	0.84	27.9	C
		R onto Viad	0.60	17.6	B	R onto Viad	0.62	18.0	B	R onto Viad	0.62	18.0	B
		TR	0.52	16.7	B	TR	0.53	16.7	B	TR	0.53	16.7	B
	SB	T	0.08	10.5	B	T	0.08	10.5	B	T	0.08	10.5	B
		T (Viaduct Exit)	1.14	95.5	F	T (Viaduct Exit)	1.15	101.1	F	T (Viaduct Exit)	1.15	101.1	F
	INTERSECTION			48.4	D			51.0	D			51.0	D
Park Avenue @ West 49th Street	WB	LT	0.90	50.0	D	LT	1.05	84.9	F	LT	1.05	84.9	F
		R	0.34	21.5	C	R	0.39	22.8	C	R	0.39	22.8	C
	NB	L↑	0.00	37.5	D	L↑	0.00	37.7	D	L↑	0.00	37.7	D
		T	0.96	39.2	D	T	0.98	42.4	D	T	0.98	42.4	D
	SB	TR	0.81	24.0	C	TR	0.83	24.7	C	TR	0.83	24.7	C
INTERSECTION			33.0	C			39.3	D			39.3	D	
Park Avenue @ West 50th Street	EB	LTR	0.45	22.1	C	LTR	0.48	22.6	C	LTR	0.50	23.6	C
		TR	0.72	20.4	C	TR	0.74	20.9	C	TR	0.72	19.9	B
	SB	L↑	0.00	40.8	D	L↑	0.00	40.8	D	L↑	0.00	40.8	D
		T	1.06	64.4	E	T	1.07	69.3	E	T	1.05	60.4	E
	INTERSECTION			40.4	D			42.5	D			38.5	D
Park Avenue @ West 51st Street	WB	LT	0.71	32.6	C	LT	0.71	32.2	C				
		R	0.42	26.3	C	R	0.43	26.7	C				
	NB	L↑	0.00	38.6	D	L↑	0.00	38.6	D				
		T	0.92	31.9	C	T	0.95	35.8	D				
	SB	TR	0.89	27.2	C	TR	0.91	28.3	C				
INTERSECTION			29.7	C			31.7	C					
Park Avenue @ West 53rd Street	WB	LTR	0.99	58.5	E	LTR	1.00	60.1	E				
		L↑	0.00	39.4	D	L↑	0.00	39.4	D				
	NB	T	0.96	36.8	D	T	0.99	42.5	D				
		TR	0.77	19.9	B	TR	0.78	20.4	C				
INTERSECTION			34.6	C			37.1	D					
Park Avenue @ West 56th Street	EB	LT	0.79	40.9	D	LT	0.83	44.1	D				
		R	0.27	24.0	C	R	0.29	24.4	C				
	NB	TR	0.79	20.0	B	TR	0.81	20.7	C				
		L↑	0.00	39.8	D	L↑	0.00	39.8	D				
	SB	T	1.07	63.9	E	T	1.07	67.0	E				
INTERSECTION			41.2	D			43.0	D					

East Midtown Rezoning and Related Actions FEIS

Signalized Intersection	Approach	2033 No-Action				Modified Proposal Special Permit				Modified Proposal SP w/ Mitigation			
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
Madison Avenue @ East 40th Street	EB	L	0.62	52.2	D	L	0.74	61.9	E	L	0.69	55.1	E
		T	0.87	43.7	D	T	0.93	52.0	D	T	0.90	46.8	D
	NB	TR	0.90	24.5	C	TR	0.95	29.9	C	TR	0.97	34.6	C
		INTERSECTION			29.9	C			36.2	D			38.3
Madison Avenue @ East 42nd Street	EB	LT	0.75	29.9	C	LT	0.77	30.7	C	LT	0.77	30.7	C
		T	0.93	41.5	D	T	0.95	44.2	D	T	0.95	44.2	D
	WB	R	0.14	19.3	B	R	0.14	19.3	B	R	0.14	19.3	B
		LT	1.17	104.4	F	LT	1.30	156.9	F	LT	0.88	22.2	C
	NB	R	0.41	14.0	B	R	0.42	14.3	B	R	0.42	14.3	B
		INTERSECTION			65.5	E			92.2	F			29.8
Madison Avenue @ East 45th Street	WB	TR	0.68	27.1	C	TR	0.72	28.8	C	TR	0.82	37.1	D
		L	0.22	10.8	B	L	0.27	11.4	B	L	0.25	8.6	A
	NB	T	1.05	57.8	E	T	1.16	97.1	F	T	1.06	56.8	E
		INTERSECTION			46.7	D			73.8	E			48.8
Madison Avenue @ East 47th Street	WB	T	0.80	35.7	D	T	1.24	151.6	F	T	0.64	26.2	C
		R	0.46	42.3	D	R	0.35	38.8	D	R	0.44	45.3	D
	NB	L	0.53	22.2	C	L	0.71	33.8	C	L	0.36	12.2	B
		T	1.15	94.7	F	T	1.23	127.9	F	T	1.15	91.7	F
	INTERSECTION			76.0	E			125.9	F			67.3	E
Madison Avenue @ East 49th Street	WB	TR	0.54	23.5	C	TR	0.59	24.7	C	TR	0.63	27.0	C
		L	0.23	11.0	B	L	0.23	11.0	B	L	0.22	9.6	A
	NB	T	1.08	66.7	E	T	1.13	87.8	F	T	1.09	67.3	E
		INTERSECTION			53.2	D			67.8	E			54.1
Madison Avenue @ East 53rd Street	WB	TR	0.83	33.7	C	TR	0.83	33.2	C	TR	0.88	38.9	D
		L	0.23	10.7	B	L	0.23	10.7	B	L	0.22	9.3	A
	NB	T	1.20	113.9	F	T	1.26	139.0	F	T	1.20	114.4	F
		INTERSECTION			82.6	F			99.3	F			85.4
Madison Avenue @ East 57th Street	EB	LT	0.80	31.5	C	LT	0.80	31.6	C	LT	0.85	36.3	D
		T	0.69	26.8	C	T	0.69	26.9	C	T	0.73	29.8	C
	WB	R	0.73	36.8	D	R	0.73	36.8	D	R	0.78	43.0	D
		L	0.41	14.2	B	L	0.43	14.5	B	L	0.41	12.7	B
	NB	T	1.01	43.9	D	T	1.08	65.0	E	T	1.03	47.9	D
		R	0.38	14.0	B	R	0.38	14.0	B	R	0.36	12.3	B
INTERSECTION			34.5	C			43.7	D			38.4	D	
Fifth Avenue @ 51st Street	WB	L	0.67	49.5	D	L	0.70	51.5	D	L	0.70	51.5	D
		T	0.65	26.0	C	T	0.66	26.3	C	T	0.66	26.3	C
	SB	T	1.15	94.6	F	T	1.20	115.5	F	T	1.20	115.3	F
		R	0.94	67.5	E	R	0.94	68.6	E	R	0.94	68.6	E
	INTERSECTION			81.3	F			97.4	F			97.4	F
Fifth Avenue @ 54th Street	EB	TR	0.54	23.6	C	TR	0.54	23.5	C	TR	0.57	25.6	C
		LT	1.15	92.4	F	LT	1.20	113.7	F	LT	1.15	90.0	F
	INTERSECTION			80.1	F			98.1	F			78.9	E
Fifth Avenue @ 56th Street	EB	T	0.60	27.7	C	T	0.62	28.2	C	T	0.65	31.2	C
		R	0.51	26.2	C	R	0.51	26.3	C	R	0.55	29.4	C
	SB	LT	1.22	122.4	F	LT	1.28	146.5	F	LT	1.22	120.9	F
		INTERSECTION			107.1	F			127.8	F			106.7
Fifth Avenue @ 57th Street	EB	T	0.72	27.7	C	T	0.72	27.7	C	T	0.72	27.7	C
		R	0.96	68.0	E	R	0.97	69.4	E	R	0.97	69.4	E
	WB	LT	0.92	42.4	D	LT	0.93	43.8	D	LT	0.93	43.8	D
		LT	1.02	41.3	D	LT	1.06	57.0	E	LT	1.06	57.0	E
	SB	R	0.28	11.9	B	R	0.28	11.9	B	R	0.28	11.9	B
		INTERSECTION			40.4	D			49.0	D			49.0

Notes:

1) To mimic actual conditions for NB/SB left turning vehicles on Park Avenue, the sum of two delays were accounted for: (1) delay from making the left turn; and (2) delay from waiting at the red light after the left turn.

Shading denotes locations with no significant adverse impacts.

Locations with no significant adverse impacts under the proposed action were not analyzed for Lower Density Alternative conditions.

Source: Parsons Brinckerhoff, Inc. 2013

# East Midtown Rezoning and Related Actions FEIS

Level of Service Table - 2033 Modified Proposal Conceptual Alternative Conditions (Midday Peak Hour)

Signalized Intersection	Approach	2033 No-Action				Modified Proposal Special Permit				Modified Proposal SP w/ Mitigation			
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
Second Avenue @ East 49th Street	WB	LT	1.03	77.0	E	LT	1.07	87.7	F	LT	1.02	72.8	E
	SB	TR	0.87	16.7	B	TR	0.89	17.6	B	TR	0.91	19.6	B
	INTERSECTION			28.0	C			30.9	C			29.7	C
Third Avenue @ East 46th Street	EB	L	0.31	34.4	C	L	0.41	36.7	D				
		T	0.30	14.3	B	T	0.34	14.8	B				
	NB	TR	0.93	31.0	C	TR	0.95	33.4	C				
Third Avenue @ East 49th Street	WB	T	0.54	17.8	B	T	0.57	18.7	B				
		R	0.42	37.7	D	R	0.42	37.7	D				
	NB	LT	0.94	34.0	C	LT	0.97	38.3	D				
Third Avenue @ East 50th Street	EB	L	0.46	20.7	C	L	0.51	22.3	C				
		T	0.27	16.3	B	T	0.28	16.4	B				
	NB	T	0.69	18.3	B	T	0.71	18.7	B				
Third Avenue @ East 51st Street	WB	T	0.42	16.8	B	T	0.44	17.2	B				
		R	0.46	38.9	D	R	0.46	38.9	D				
	NB	LT	0.93	31.0	C	LT	0.95	33.4	C				
Lexington Avenue @ East 50th Street	EB	TR	0.26	19.1	B	TR	0.21	18.6	B	TR	0.32	20.0	C
	SB	LT	0.85	20.4	C	LT	0.89	22.7	C	LT	0.89	22.7	C
	INTERSECTION			20.1	C			22.0	C			22.2	C
Lexington Avenue @ East 51st Street	WB	L	0.94	83.0	F	L	0.98	92.9	F	L	0.91	75.8	E
		T	0.49	22.8	C	T	0.53	23.8	C	T	0.52	22.7	C
	SB	T	0.73	17.7	B	T	0.76	18.3	B	T	0.77	19.7	B
		R	0.46	19.8	B	R	0.46	19.8	B	R	0.48	21.7	C
Lexington Avenue @ East 53rd Street	WB	LT	0.44	21.5	C	LT	0.45	21.7	C				
	SB	T	0.75	16.5	B	T	0.77	17.1	B				
		R	0.22	10.9	B	R	0.22	10.9	B				
Park Avenue @ West 40th Street	EB	LT	0.68	32.4	C	LT	0.71	33.9	C	LT	0.73	36.1	D
		R	0.31	24.1	C	R	0.36	25.2	C	R	0.37	26.4	C
	NB	T (Tunnel Exit)	0.88	31.8	C	T (Tunnel Exit)	0.89	32.2	C	T (Tunnel Exit)	0.87	29.6	C
		T (SR onto Viaduct)	0.50	15.4	B	T (SR onto Viaduct)	0.50	15.4	B	T (SR onto Viaduct)	0.49	14.7	B
		TR	0.44	15.0	B	TR	0.44	15.0	B	TR	0.43	14.2	B
	SB	T	0.08	10.4	B	T	0.08	10.4	B	T	0.08	9.9	A
		T (Viaduct Exit)	1.13	90.8	F	T (Viaduct Exit)	1.15	99.4	F	T (Viaduct Exit)	1.12	89.5	F
Park Avenue @ West 49th Street	WB	LT	0.96	59.5	E	LT	1.02	76.1	E	LT	1.02	76.1	E
		R	0.42	23.2	C	R	0.50	25.7	C	R	0.50	25.7	C
	NB	Lt†	0.00	37.9	D	Lt†	0.00	37.9	D	Lt†	0.00	37.9	D
		T	0.91	32.5	C	T	0.94	36.3	D	T	0.94	36.3	D
	SB	TR	0.73	21.2	C	TR	0.74	21.5	C	TR	0.74	21.5	C
	INTERSECTION			30.9	C			34.9	C			34.9	C
Park Avenue @ West 50th Street	EB	LTR	0.51	23.2	C	LTR	0.54	23.7	C				
	NB	TR	0.69	19.8	B	TR	0.72	20.4	C				
	SB	Lt†	0.00	38.5	D	Lt†	0.00	38.6	D				
		T	0.89	29.4	C	T	0.90	30.1	C				
Park Avenue @ West 51st Street	WB	LT	0.54	26.0	C	LT	0.56	26.8	C				
		R	0.35	24.1	C	R	0.40	25.3	C				
	NB	Lt†	0.00	38.3	D	Lt†	0.00	38.3	D				
		T	0.92	32.4	C	T	0.96	38.2	D				
Park Avenue @ West 53rd Street	WB	LTR	0.71	30.2	C	LTR	0.73	30.9	C				
	NB	Lt†	0.00	37.9	D	Lt†	0.00	37.9	D				
	SB	TR	0.65	17.0	B	TR	0.66	17.3	B				
Park Avenue @ West 56th Street	EB	LT	0.87	47.7	D	LT	0.89	51.0	D				
		R	0.38	26.6	C	R	0.40	27.1	C				
	NB	TR	0.77	19.6	B	TR	0.80	20.4	C				
	SB	Lt†	0.00	40.3	D	Lt†	0.00	40.3	D				
INTERSECTION			24.7	C			25.6	C					

East Midtown Rezoning and Related Actions FEIS

Signalized Intersection	Approach	2033 No-Action				Modified Proposal Special Permit				Modified Proposal SP w/ Mitigation			
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
Madison Avenue @ East 40th Street	EB	L	0.55	46.7	D	L	0.61	49.5	D				
		T	0.59	26.2	C	T	0.65	28.0	C				
	NB	TR	0.84	20.2	C	TR	0.87	21.7	C				
		INTERSECTION			22.6	C			24.3	C			
Madison Avenue @ East 42nd Street	EB	LT	0.85	35.0	C	LT	0.86	35.7	D	LT	0.86	35.7	D
		T	0.84	33.2	C	T	0.85	34.1	C	T	0.85	34.1	C
	WB	R	0.08	18.0	B	R	0.08	18.0	B	R	0.08	18.0	B
		LT	1.10	74.5	E	LT	1.16	98.7	F	LT	0.79	17.7	B
	NB	R	0.41	13.9	B	R	0.42	14.3	B	R	0.42	14.3	B
		INTERSECTION			50.7	D			62.4	E			26.0
Madison Avenue @ East 45th Street	WB	TR	0.53	23.4	C	TR	0.57	24.2	C	TR	0.57	24.2	C
		L	0.18	10.4	B	L	0.21	10.8	B	L	0.21	10.8	B
	NB	T	1.02	47.0	D	T	1.19	110.5	F	T	1.19	110.5	F
		INTERSECTION			39.8	D			87.0	F			87.0
Madison Avenue @ East 47th Street	WB	T	0.92	48.7	D	T	1.21	138.3	F	T	0.59	23.6	C
		R	0.22	35.8	D	R	0.24	36.4	D	R	0.26	37.7	D
	NB	L	0.52	24.9	C	L	1.50	283.1	F	L	0.52	17.9	B
		T	1.06	62.1	E	T	1.08	68.3	E	T	1.06	58.8	E
	INTERSECTION			56.9	E			103.6	F			45.6	D
Madison Avenue @ East 49th Street	WB	TR	0.51	22.9	C	TR	0.52	23.1	C				
		L	0.22	11.0	B	L	0.22	11.0	B				
	NB	T	0.96	33.0	C	T	1.00	40.8	D				
		INTERSECTION			29.4	C			34.9	C			
Madison Avenue @ East 53rd Street	WB	TR	0.52	22.9	C	TR	0.53	23.1	C	TR	0.54	24.0	C
		L	0.20	10.5	B	L	0.20	10.5	B	L	0.20	9.9	A
	NB	T	1.00	41.0	D	T	1.04	51.9	D	T	1.02	44.5	D
		INTERSECTION			34.7	C			42.4	D			37.5
Madison Avenue @ East 57th Street	EB	LT	0.78	29.9	C	LT	0.78	29.9	C				
		T	0.62	24.9	C	T	0.63	25.1	C				
	WB	R	0.61	30.6	C	R	0.61	30.6	C				
		L	0.26	11.5	B	L	0.27	11.6	B				
	NB	T	0.93	28.3	C	T	0.98	35.9	D				
		R	0.34	12.6	B	R	0.34	12.6	B				
INTERSECTION			26.9	C			30.1	C					
Fifth Avenue @ 51st Street	WB	L	0.69	50.1	D	L	0.72	52.0	D	L	0.72	52.0	D
		T	0.53	22.4	C	T	0.55	22.8	C	T	0.56	23.9	C
	SB	T	0.93	28.8	C	T	0.96	32.9	C	T	0.94	28.8	C
		R	1.28	201.6	F	R	1.30	209.1	F	R	1.18	161.4	F
	INTERSECTION			30.0	C			42.6	D			37.1	D
Fifth Avenue @ 54th Street	EB	TR	0.46	22.0	C	TR	0.46	22.1	C				
		LT	0.99	35.3	D	LT	1.03	44.2	D				
	INTERSECTION			32.8	C			40.2	D				
Fifth Avenue @ 56th Street	EB	T	0.65	29.2	C	T	0.68	30.4	C				
		R	0.73	37.4	D	R	0.74	38.4	D				
	SB	LT	0.97	31.5	C	LT	1.02	41.8	D				
		INTERSECTION			31.7	C			40.0	D			
Fifth Avenue @ 57th Street	EB	T	0.70	27.1	C	T	0.70	27.1	C				
		R	0.91	59.5	E	R	0.91	59.5	E				
	WB	LT	0.59	23.9	C	LT	0.60	24.0	C				
		LT	0.80	17.9	B	LT	0.84	19.2	B				
	SB	R	0.50	17.1	B	R	0.50	17.1	B				
INTERSECTION			24.2	C			24.7	C					

Notes:

11 To mimic actual conditions for NB/SB left turning vehicles on Park Avenue, the sum of two delays were accounted for: (1) delay from making the left turn; and (2) delay from waiting at the red light after the left turn.

Shading denotes locations with no significant adverse impacts.

Locations with no significant adverse impacts under the proposed action were not analyzed for Lower Density Alternative conditions.

Source: Parsons Brinckerhoff, Inc. 2013



# East Midtown Rezoning and Related Actions FEIS

Level of Service Table - 2033 Modified Proposal Conceptual Alternative Conditions (PM Peak Hour)

Signalized Intersection	Approach	2033 No-Action				Modified Proposal Special Permit				Modified Proposal SP w/ Mitigation			
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
Second Avenue @ East 49th Street	WB	L	1.18	135.9	F	L	1.22	152.1	F	L	1.17	133.1	F
		T	0.41	28.0	C	T	0.41	28.0	C	T	0.39	27.1	C
	SB	T	0.71	12.5	B	T	0.72	12.7	B	T	0.74	13.7	B
		R	0.35	10.8	B	R	0.39	11.4	B	R	0.40	12.3	B
	INTERSECTION			30.2	C			32.7	C			30.8	C
Third Avenue @ East 46th Street	EB	L	0.34	34.9	C	L	0.45	37.4	D				
		T	0.39	15.3	B	T	0.48	16.6	B				
	NB	TR	0.81	23.8	C	TR	0.83	24.3	C				
	INTERSECTION			22.7	C			23.2	C				
Third Avenue @ East 49th Street	WB	T	0.60	19.5	B	T	0.62	20.3	C				
		R	0.40	37.0	D	R	0.40	37.0	D				
	NB	LT	0.72	23.5	C	LT	0.75	24.0	C				
	INTERSECTION			23.4	C			23.9	C				
Third Avenue @ East 50th Street	EB	L	0.35	18.4	B	L	0.40	19.5	B				
		T	0.21	15.7	B	T	0.22	15.8	B				
	NB	T	0.66	17.8	B	T	0.68	18.1	B				
		R	0.44	22.4	C	R	0.44	22.4	C				
INTERSECTION			17.8	B			18.2	B					
Third Avenue @ East 51st Street	WB	T	0.49	18.1	B	T	0.51	18.4	B				
		R	0.55	41.4	D	R	0.55	41.4	D				
	NB	LT	0.72	22.0	C	LT	0.76	22.6	C				
	INTERSECTION			22.5	C			23.0	C				
Lexington Avenue @ East 50th Street	EB	TR	0.24	18.9	B	TR	0.25	19.0	B	TR	0.39	21.0	C
	SB	LT	0.87	21.4	C	LT	0.92	25.5	C	LT	0.92	25.5	C
	INTERSECTION			21.0	C			24.3	C			24.7	C
Lexington Avenue @ East 51st Street	WB	L	0.56	34.8	C	L	0.61	36.5	D	L	0.54	31.6	C
		T	1.02	87.5	F	T	1.13	123.8	F	T	1.01	79.1	E
	SB	T	0.75	18.0	B	T	0.78	18.9	B	T	0.83	23.6	C
		R	0.42	17.9	B	R	0.42	17.9	B	R	0.48	23.1	C
	INTERSECTION			31.8	C			39.8	D			34.6	C
Lexington Avenue @ East 53rd Street	WB	LT	0.60	24.2	C	LT	0.61	24.0	C				
		T	0.75	16.5	B	T	0.78	17.3	B				
	SB	R	0.22	10.9	B	R	0.22	11.0	B				
		INTERSECTION			18.7	B			19.2	B			
Park Avenue @ West 40th Street	EB	LT	0.81	39.8	D	LT	0.91	50.8	D	LT	0.91	50.8	D
		R	0.53	29.9	C	R	0.66	36.3	D	R	0.66	36.3	D
	NB	T (Tunnel Exit)	0.98	46.7	D	T (Tunnel Exit)	0.98	48.1	D	T (Tunnel Exit)	0.98	48.1	D
		T (SR onto Viaduct)	0.53	16.1	B	T (SR onto Viaduct)	0.53	16.1	B	T (SR onto Viaduct)	0.53	16.1	B
		TR	0.55	17.5	B	TR	0.56	17.5	B	TR	0.56	17.5	B
	SB	T	0.06	10.3	B	T	0.07	10.3	B	T	0.07	10.3	B
		T (Viaduct Exit)	1.14	96.3	F	T (Viaduct Exit)	1.19	114.4	F	T (Viaduct Exit)	1.19	114.4	F
	INTERSECTION			52.9	D			60.8	E			60.8	E
Park Avenue @ West 49th Street	WB	LT	0.92	51.4	D	LT	0.95	57.1	E	LT	0.95	57.1	E
		R	0.50	25.3	C	R	0.55	27.1	C	R	0.55	27.1	C
	NB	Lt†	0.00	37.7	D	Lt†	0.00	37.9	D	Lt†	0.00	37.9	D
		T	1.00	47.9	D	T	1.04	59.7	E	T	1.04	59.7	E
	SB	TR	0.77	22.3	C	TR	0.78	22.7	C	TR	0.78	22.7	C
	INTERSECTION			36.2	D			41.9	D			41.9	D
Park Avenue @ West 50th Street	EB	LTR	0.53	23.8	C	LTR	0.57	24.5	C				
	NB	TR	0.78	22.0	C	TR	0.81	23.2	C				
	SB	Lt†	0.00	38.4	D	Lt†	0.00	38.4	D				
		T	0.96	38.3	D	T	0.97	39.7	D				
	INTERSECTION			29.1	C			30.1	C				
Park Avenue @ West 51st Street	WB	LT	0.63	28.9	C	LT	0.67	30.4	C	LT	0.71	34.1	C
		R	0.56	31.7	C	R	0.64	36.0	D	R	0.70	42.6	D
	NB	Lt†	0.00	39.0	D	Lt†	0.00	39.1	D	Lt†	0.00	39.2	D
		T	1.02	52.4	D	T	1.08	69.9	E	T	1.03	53.1	D
	SB	TR	0.79	21.9	C	TR	0.80	22.2	C	TR	0.76	19.8	B
	INTERSECTION			36.0	D			43.9	D			36.5	D
Park Avenue @ West 53rd Street	WB	LTR	0.90	42.6	D	LTR	0.93	46.9	D	LTR	0.93	46.9	D
	NB	Lt†	0.00	38.3	D	Lt†	0.00	38.3	D	Lt†	0.00	38.3	D
		T	1.08	69.5	E	T	1.13	89.4	F	T	1.13	89.4	F
	SB	TR	0.70	18.0	B	TR	0.71	18.2	B	TR	0.71	18.2	B
	INTERSECTION			44.1	D			53.6	D			53.6	D

East Midtown Rezoning and Related Actions FEIS

Signalized Intersection	Approach	2033 No-Action				Modified Proposal Special Permit				Modified Proposal SP w/ Mitigation			
		Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS	Movt.	V/C Ratio	Delay Sec/Veh	LOS
Park Avenue @ West 56th Street	EB	LT	0.81	41.6	D	LT	0.77	38.4	D				
		R	0.37	25.9	C	R	0.35	25.5	C				
	NB	TR	0.92	27.3	C	TR	0.96	31.8	C				
		SB	L††	0.00	39.0	D	L††	0.00	39.0	D			
	INTERSECTION			29.2	C			31.3	C				
Madison Avenue @ East 40th Street	EB	L	0.45	42.2	D	L	0.52	44.6	D	L	0.45	39.8	D
		T	0.78	34.4	C	T	0.95	53.9	D	T	0.90	43.7	D
	NB	TR	0.63	14.6	B	TR	0.66	15.1	B	TR	0.69	17.3	B
		INTERSECTION			20.2	C			25.9	C			24.7
Madison Avenue @ East 42nd Street	EB	LT	0.48	22.3	C	LT	0.48	22.4	C				
		WB	T	0.75	28.8	C	T	0.77	29.5	C			
	NB	R	0.16	19.5	B	R	0.16	19.5	B				
		LT	0.92	27.7	C	LT	0.97	35.7	D				
	INTERSECTION			26.3	C			30.3	C				
Madison Avenue @ East 45th Street	WB	TR	0.46	22.1	C	TR	0.46	22.1	C	TR	0.49	24.0	C
		NB	L	0.20	10.6	B	L	0.23	11.0	B	L	0.22	9.6
	INTERSECTION	T	0.92	27.4	C	T	1.06	59.7	E	T	1.02	43.8	D
				25.2	C			48.6	D			37.4	D
Madison Avenue @ East 47th Street	WB	T	0.78	34.3	C	T	1.20	135.6	F	T	0.53	19.8	B
		R	0.58	46.8	D	R	0.88	74.7	E	R	0.71	49.6	D
	NB	L	0.51	22.9	C	L	0.73	38.9	D	L	0.38	17.4	B
		INTERSECTION			29.7	C			65.4	E			31.1
Madison Avenue @ East 49th Street	WB	TR	0.49	22.5	C	TR	0.51	22.8	C				
		NB	L	0.16	10.3	B	L	0.16	10.3	B			
	INTERSECTION	T	0.90	26.2	C	T	0.97	36.4	D				
				24.6	C			31.7	C				
Madison Avenue @ East 53rd Street	WB	TR	0.47	22.2	C	TR	0.48	22.3	C				
		NB	L	0.27	11.4	B	L	0.27	11.4	B			
	INTERSECTION	T	0.93	29.2	C	T	1.01	44.0	D				
				26.1	C			36.3	D				
Madison Avenue @ East 57th Street	EB	LT	0.81	32.1	C	LT	0.81	32.1	C				
		WB	T	0.50	22.6	C	T	0.50	22.6	C			
	NB	R	0.64	33.3	C	R	0.64	33.3	C				
		LT	0.15	10.0	B	L	0.16	10.1	B				
	INTERSECTION			25.2	C			28.1	C				
Fifth Avenue @ 51st Street	WB	L	0.71	51.7	D	L	0.73	53.0	D	L	0.73	53.0	D
		T	0.65	25.6	C	T	0.67	26.6	C	T	0.69	28.1	C
	SB	T	0.87	24.7	C	T	0.90	26.9	C	T	0.88	24.3	C
		INTERSECTION			34.2	C			36.0	D			34.0
Fifth Avenue @ 54th Street	EB	TR	0.49	22.4	C	TR	0.51	22.7	C				
		SB	LT	0.93	25.4	C	LT	0.96	30.3	C			
	INTERSECTION			24.7	C			28.6	C				
Fifth Avenue @ 56th Street	EB	T	0.74	33.0	C	T	0.78	35.4	D				
		R	0.67	32.6	C	R	0.68	33.6	C				
	INTERSECTION			25.9	C			29.9	C				
Fifth Avenue @ 57th Street	EB	T	0.71	27.3	C	T	0.71	27.3	C				
		R	0.62	32.9	C	R	0.62	32.9	C				
	WB	LT	0.74	29.7	C	LT	0.75	30.0	C				
		SB	LT	0.72	15.7	B	LT	0.76	16.5	B			
	INTERSECTION			22.1	C			22.4	C				

Notes:

††To mimic actual conditions for NB/SB left turning vehicles on Park Avenue, the sum of two delays were accounted for: (1) delay from making the left turn; and (2) delay from waiting at the red light after the left turn. Shading denotes locations with no significant adverse impacts.

Locations with no significant adverse impacts under the proposed action were not analyzed for Lower Density Alternative conditions.

Source: Parsons Brinckerhoff, Inc. 2013

Weekday Hourly Net Parking Accumulation for Modified Proposal Special Permit Scenario

Time Period	Land Use				Total
	Office	Residential	Destination Retail	Hotel	
12:00 AM - 1:00 AM	0	74	0	98	172
1:00 AM - 2:00 AM	0	74	0	98	172
2:00 AM - 3:00 AM	0	74	0	98	172
3:00 AM - 4:00 AM	0	74	0	98	172
4:00 AM - 5:00 AM	0	74	0	98	172
5:00 AM - 6:00 AM	0	74	0	98	172
6:00 AM - 7:00 AM	0	73	0	85	158
7:00 AM - 8:00 AM	23	68	0	62	153
8:00 AM - 9:00 AM	313	58	0	47	418
9:00 AM - 10:00 AM	538	52	0	36	626
10:00 AM - 11:00 AM	517	51	5	31	604
11:00 AM - 12:00 PM	506	51	9	31	597
12:00 PM - 1:00 PM	500	51	11	42	604
1:00 PM - 2:00 PM	519	51	12	37	619
2:00 PM - 3:00 PM	560	51	12	30	653
3:00 PM - 4:00 PM	556	52	11	26	645
4:00 PM - 5:00 PM	393	57	11	34	495
5:00 PM - 6:00 PM	64	64	10	69	207
6:00 PM - 7:00 PM	16	70	10	82	178
7:00 PM - 8:00 PM	2	74	12	92	180
8:00 PM - 9:00 PM	0	76	9	96	181
9:00 PM - 10:00 PM	0	74	0	98	172
10:00 PM - 11:00 PM	0	74	0	98	172
11:00 PM - 12:00 AM	0	74	0	99	173

Note: Midday peak period is noon to 2:00 p.m.

Source: Parsons Brinckerhoff, Inc., 2013

Modified Proposal Special Permit Scenario Subway Stair Analysis  
at the Fifth Avenue (7) Station

Peak Period	Stairway	Width (ft.)	Effective Width (ft.)	No-Action						Modified Proposal S.P. Increment		Modified Proposal Special Permit Scenario					
				15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	15-Minute Pedestrian Volumes		15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS
				Down	Up					Down	Up	Down	Up				
AM	S1	12.33	11.08	48	773	0.8	0.9	0.68	B	17	253	65	1026	0.8	0.9	0.90	C
	M1/M2	11.33	10.08	48	773	0.8	0.9	0.75	C	17	253	65	1026	0.8	0.9	0.99	C
	P2	8.25	7.00	16	171	0.75	0.9	0.26	A	4	42	20	213	0.75	0.9	0.32	A
	P3	8.00	6.75	22	164	0.75	0.9	0.26	A	3	41	25	205	0.75	0.9	0.33	A
PM	S1	12.33	10.08	605	194	0.8	0.9	0.62	B	295	26	900	220	0.8	0.9	0.86	C
	M1/M2	11.33	10.08	605	194	0.8	0.9	0.62	B	295	26	900	220	0.8	0.9	0.86	C
	P2	8.25	7.00	147	122	0.75	0.9	0.33	A	48	5	195	127	0.75	0.9	0.39	A
	P3	8.00	6.75	174	82	0.75	0.9	0.31	A	49	6	223	88	0.75	0.9	0.37	A

**Notes:**

Methodology based on 2012 CEQR Technical Manual guidelines.

Decreases in demand from Existing to No-Action reflect changes in subway ridership patterns due to completion of the Second Avenue subway and other MTA capital improvements.

Modified Proposal Special Permit Scenario Subway Fare Array Analysis  
at the Fifth Avenue (7) Station

Peak Period	Fare Array	Control Element	Quantity	No-Action						Modified Proposal S.P. Increment		Modified Proposal Special Permit Scenario					
				15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	15-Minute Pedestrian Volumes		15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS
				In	Out					In	Out	In	Out				
AM	R501	Two-way Turnstile	8	48	773	0.8	0.9	0.22	A	17	253	65	1026	0.8	0.9	0.30	A
PM	R501	Two-way Turnstile	8	605	194	0.8	0.9	0.25	A	295	26	900	220	0.8	0.9	0.36	A

**Notes:**  
 Methodology based on 2012 CEQR Technical Manual guidelines.  
 Decreases in demand from Existing to No-Action reflect changes in subway ridership patterns due to completion of the Second Avenue subway and other MTA capital improvements.

Modified Proposal Special Permit Scenario Subway Stair Analysis  
at the 42nd Street - Bryant Park (B,D,F,M) Station

Peak Period	Fare Control Area	Stairway	Width (ft.)	Effective Width (ft.)	No-Action					Modified Proposal S.P. Increment		Modified Proposal Special Permit Scenario								
					15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	15-Minute Pedestrian Volumes		15-Minute Pedestrian Volumes	Surging Factor	Friction Factor	V/C Ratio	LOS	WIT (in.)	WIT for Significant Impact (in.)	
					Down	Up					Down	Up								Down
AM	N504	S5	4.92	3.92	51	825	0.9	0.9	1.83	F	4	6	55	831	0.9	0.9	1.85	F	0.54	2
		M6	8.50	7.50	51	825	0.9	0.9	0.96	C	4	6	55	831	0.9	0.9	0.97	C	-	-
		S6	5.00	4.00	16	414	0.9	1.0	0.79	C	1	0	16	414	0.9	1.0	0.79	C	-	-
		M7/M8	8.50	7.50	16	414	0.9	1.0	0.42	A	1	0	16	414	0.9	1.0	0.42	A	-	-
		P1	6.75	5.75	17	337	0.75	1.0	0.54	B	1	1	18	338	0.75	0.9	0.60	B	-	-
		P2	6.75	5.75	19	582	0.75	1.0	0.92	C	1	2	20	584	0.75	1.0	0.93	C	-	-
	N502	P3	6.67	5.67	21	512	0.75	1.0	0.83	C	1	1	22	513	0.75	1.0	0.83	C	-	-
		P4	6.67	5.67	39	578	0.75	0.9	1.06	D	1	2	40	580	0.75	0.9	1.06	D	0.33	8
		MB20	10.00	8.75	21	707	0.9	1.0	0.61	B	0	21	21	728	0.9	1.0	0.63	B	-	-
PM	N504	P13	10.00	8.75	27	387	0.75	0.9	0.46	B	0	8	27	395	0.75	0.9	0.47	B	-	-
		P14	10.00	8.75	24	856	0.75	1.0	0.89	C	0	13	24	869	0.75	1.0	0.90	C	-	-
		S5	4.92	3.92	794	105	0.9	0.9	1.72	F	8	4	802	109	0.9	0.9	1.75	F	0.63	2
M6		8.50	7.50	794	105	0.9	0.9	0.90	C	8	4	802	109	0.9	0.9	0.91	C	-	-	
S6		5.00	4.00	242	68	0.9	0.9	0.59	B	0	0	242	68	0.9	0.9	0.59	B	-	-	
M7/M8		8.50	7.50	242	68	0.9	0.9	0.31	A	0	0	242	68	0.9	0.9	0.31	A	-	-	
N502	P1	6.75	5.75	274	158	0.75	0.9	0.62	B	2	1	276	159	0.75	0.9	0.63	B	-	-	
	P2	6.75	5.75	157	43	0.75	0.9	0.28	A	1	1	158	44	0.75	0.9	0.28	A	-	-	
	P3	6.67	5.67	592	142	0.75	0.9	1.02	D	3	1	595	143	0.75	0.9	1.03	D	0.37	8	
	P4	6.67	5.67	457	71	0.75	0.9	0.72	C	2	1	459	72	0.75	0.9	0.73	C	-	-	
	MB20	10.00	8.75	595	70	0.9	0.9	0.57	B	22	-1	617	69	0.9	0.9	0.59	B	-	-	
	P13	10.00	8.75	672	66	0.75	0.9	0.64	B	14	-1	686	66	0.75	0.9	0.66	B	-	-	
	P14	10.00	8.75	342	111	0.75	0.9	0.41	A	9	-1	351	110	0.75	0.9	0.42	A	-	-	

Notes:  
Methodology based on 2012 CEQR Technical Manual guidelines.

Modified Proposal Special Permit Scenario Subway Fare Array Analysis  
at the 42nd Street - Bryant Park (B,D,F,M) Station

Peak Period	Fare Array	Control Element	Quantity	No-Action						Modified Proposal S.P. Increment		Modified Proposal Special Permit Scenario					
				15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS		
				In	Out					In	Out						
AM	N502	Two-way Turnstile	5	56	1327	0.9	1.0	0.33	A	0	21	56	1348	0.9	1.0	0.33	A
		High Entry/Exit Turnstile	1														
		High Exit Turnstile	2														
	N504	Two-way Turnstile	6	65	2581	0.9	1.0	0.54	B	4	6	69	2587	0.9	1.0	0.54	B
		High Entry/Exit Turnstile	3														
		High Exit Turnstile	0														
PM	N502	Two-way Turnstile	5	977	190	0.9	0.9	0.51	B	22	-1	999	189	0.9	0.9	0.52	B
		High Entry/Exit Turnstile	1														
		High Exit Turnstile	2														
	N504	Two-way Turnstile	6	2007	187	0.9	0.9	0.72	C	8	4	2015	191	0.9	0.9	0.72	C
		High Entry/Exit Turnstile	3														
		High Exit Turnstile	0														

**Notes:**  
Methodology based on 2012 CEQR Technical Manual guidelines

Modified Proposal Special Permit Scenario Subway Stair Analysis  
at the 47-50th Street - Rockefeller Center (B,D,F,M) Station

Peak Period	Stairway	Width (ft.)	Effective Width (ft.)	No-Action						Modified Proposal S.P. Increment		Modified Proposal Special Permit Scenario							
				15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	15-Minute Pedestrian Volumes		15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	WIT (in.)	WIT for Significant Impact (in.)
				Down	Up					Down	Up	Down	Up						
AM	S1	5.00	4.00	24	568	0.9	1.0	1.09	D	1	30	25	598	0.9	1.0	1.15	D	2.51	7
	S6	5.00	4.00	21	371	0.9	0.9	0.80	C	5	40	26	411	0.9	0.9	0.89	C	-	-
	M1	12.00	10.75	45	939	0.9	1.0	0.67	B	5	70	50	1009	0.9	1.0	0.73	C	-	-
	S3	4.33	3.33	18	593	0.9	1.0	1.35	E	0	2	18	595	0.9	1.0	1.36	E	0.13	5
	M3	11.92	10.67	18	593	0.9	1.0	0.42	A	0	2	18	595	0.9	1.0	0.42	A	-	-
	P1	6.67	5.67	14	1483	0.75	1.0	2.34	F	2	30	16	1513	0.75	1.0	2.39	F	1.45	2
	P2	6.67	5.67	303	994	0.75	0.9	2.13	F	1	8	304	1002	0.75	0.9	2.14	F	0.47	2
	P3	8.83	7.58	13	1258	0.75	1.0	1.49	E	1	26	14	1284	0.75	1.0	1.52	E	1.93	3
P4	8.83	7.58	449	789	0.75	0.9	1.47	E	1	8	450	797	0.75	0.9	1.48	E	0.66	4	
PM	S1	5.00	4.00	635	31	0.9	1.0	1.12	D	35	1	670	32	0.9	1.0	1.18	D	2.59	7
	S6	5.00	4.00	363	23	0.9	0.9	0.72	C	47	5	410	28	0.9	0.9	0.82	C	-	-
	M1	12.00	10.75	999	54	0.9	0.9	0.73	C	81	5	1080	59	0.9	0.9	0.79	C	-	-
	S3	4.33	3.33	518	46	0.9	0.9	1.26	D	2	3	520	49	0.9	0.9	1.28	D	0.35	6
	M3	11.92	10.67	518	46	0.9	0.9	0.40	A	2	3	520	49	0.9	0.9	0.40	A	-	-
	P1	6.67	5.67	841	90	0.75	0.9	1.26	D	9	2	850	92	0.75	0.9	1.27	D	0.80	6
	P2	6.67	5.67	1046	98	0.75	0.9	1.54	E	19	3	1065	101	0.75	0.9	1.57	E	1.31	3
	P3	8.83	7.58	851	155	0.75	0.9	1.03	D	9	2	860	157	0.75	0.9	1.04	D	1.00	5
P4	8.83	7.58	463	147	0.75	0.9	0.64	B	47	1	510	148	0.75	0.9	0.69	B	-	-	

Notes:  
Methodology based on 2012 CEQR Technical Manual guidelines.



Modified Proposal Special Permit Scenario Subway Fare Array Analysis  
at the 47-50th Street - Rockefeller Center (B,D,F,M) Station

Peak Period	Fare Array	Control Element	Quantity	No-Action						Modified Proposal S.P. Increment		Modified Proposal Special Permit Scenario					
				15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	15-Minute Pedestrian Volumes		15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS
				In	Out					In	Out	In	Out				
AM	N501	Two-way Turnstile	8	53	2584	0.9	1.0	0.40	A	5	71	58	2655	0.9	1.0	0.42	A
		High Entry/Exit Turnstile	2														
		High Exit Turnstile	2														
PM	N501	Two-way Turnstile	8	1703	132	0.9	0.9	0.51	B	83	8	1786	140	0.9	0.9	0.54	B
		High Entry/Exit Turnstile	2														
		High Exit Turnstile	2														

**Notes:**  
Methodology based on 2012 CEQR Technical Manual guidelines.

Modified Proposal Special Permit Scenario Subway Stair Analysis  
at the 51st Street (6) Station

Peak Period	Fare Control Area	Stairway	Width (ft.)	Effective Width (ft.)	No-Action					Modified Proposal S.P. Increment		Modified Proposal Special Permit Scenario								
					15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	15-Minute Pedestrian Volumes		15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	WIT (in.)	WIT for Significant Impact (in.)
					Down	Up					Down	Up	Down	Up						
AM	R243	S2	5.17	4.17	32	286	0.75	0.9	0.73	C	5	21	37	307	0.75	0.9	0.79	C	-	-
		S5	4.08	3.08	17	202	0.75	0.9	0.69	B	0	0	17	202	0.75	0.9	0.69	B	-	-
		M2	9.83	8.58	49	489	0.75	0.9	0.60	B	5	21	54	510	0.75	0.9	0.63	B	-	-
	R242A	O1/O2	10.00	8.75	73	790	0.75	0.9	0.95	C	1	34	74	824	0.75	0.9	0.99	C	-	-
		M7	21.33	18.83	71	777	0.75	0.9	0.44	A	1	34	72	811	0.75	0.9	0.45	B	-	-
		P3	18.08	15.58	71	777	0.75	0.9	0.53	B	1	34	72	811	0.75	0.9	0.55	B	-	-
	N305A	U1*	4.17	3.17	910	45	0.75	1.0	2.65	F	0	0	910	1323	0.75	0.9	1.39	E	-	-
O4		10.00	9.00	1246	242	0.75	0.9	1.29	D	0	0	1246	242	0.75	0.9	1.29	D	-	-	
PM	R243	S2	5.17	4.17	284	121	0.75	0.9	0.79	C	37	4	321	125	0.75	0.9	0.87	C	-	-
		S5	4.08	3.08	112	84	0.75	0.9	0.54	B	0	0	112	84	0.75	0.9	0.54	B	-	-
		M2	9.83	8.58	394	205	0.75	0.9	0.58	B	37	4	431	209	0.75	0.9	0.61	B	-	-
	R242A	O1/O2	10.00	8.75	235	90	0.75	0.9	0.30	A	23	10	258	100	0.75	0.9	0.33	A	-	-
		M7	21.33	18.83	231	85	0.75	0.9	0.14	A	23	10	254	95	0.75	0.9	0.15	A	-	-
		P3	18.08	15.58	231	85	0.75	0.9	0.16	A	23	10	254	95	0.75	0.9	0.18	A	-	-
	N305A	U1*	4.17	3.17	759	4	0.75	1.0	2.14	F	0	0	759	445	0.75	0.9	0.80	C	-	-
O4		10.00	9.00	472	160	0.75	0.9	0.56	B	0	0	472	160	0.75	0.9	0.56	B	-	-	

**Notes:**  
 Methodology based on 2012 CEQR Technical Manual guidelines.  
 Decreases in demand from Existing to No-Action reflect changes in subway ridership patterns due to completion of the Second Avenue subway and other MTA capital improvements.  
 \* Under the Modified Proposal Alternative, stair U1 is widened from 4.17 feet to 15 feet and escalator E252 is eliminated. No-Action pedestrian volumes on escalator E252 are reflected in stair U1 M. P. Alternative pedestrian volumes.

Modified Proposal Special Permit Scenario Subway Fare Array Analysis  
at the 51st Street (6) Station

Peak Period	Fare Array	Control Element	Quantity	No-Action						Modified Proposal S.P. Increment		Modified Proposal Special Permit Scenario					
				15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	15-Minute Pedestrian Volumes		15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS
				In	Out					In	Out	In	Out				
AM	R242A	Two-way Turnstile	5	71	777	0.75	0.9	0.39	A	1	34	72	811	0.75	0.9	0.41	A
	R243	Two-way Turnstile	9	38	922	0.75	1.0	0.22	A	8	18	46	940	0.75	1.0	0.23	A
PM	R242A	Two-way Turnstile	5	231	85	0.75	0.9	0.16	A	23	10	254	95	0.75	0.9	0.18	A
	R243	Two-way Turnstile	9	654	372	0.75	0.9	0.29	A	32	7	686	379	0.75	0.9	0.30	A

**Notes:**  
Methodology based on 2012 CEQR Technical Manual guidelines.

Modified Proposal Special Permit Scenario Subway Passageway Analysis  
at the 51st Street (6) Station

Passageway	Peak Period	Width (ft.)	Effective Width (ft.)	No-Action						Modified Proposal S.P. Increment		Modified Proposal Special Permit Scenario					
				15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	15-Minute Pedestrian Volumes		15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS
				NB	SB					NB	SB	NB	SB				
To/From Lex Ave-53rd St	AM	15.25	13.3	507	485	0.75	0.9	0.43	A	0	0	507	485	0.75	0.9	0.43	A
	PM	15.25	13.3	659	498	0.75	0.9	0.51	B	0	0	659	498	0.75	0.9	0.51	B

**Notes:**  
 Methodology based on 2012 CEQR Technical Manual guidelines.  
 Decreases in demand from Existing to No-Action reflect changes in subway ridership patterns due to completion of the Second Avenue subway and other MTA capital improvements.

**Modified Proposal Special Permit Scenario Subway Escalator Analysis  
at the 51st Street (6) Station**

Peak Period	Escalator	Width (in.)	Feet Per Minute	Guideline Capacity	No-Action				Modified Proposal S.P. Increment	Modified Proposal Special Permit Scenario				
					15-Minute Pedestrian Volumes	Surging Factor	V/C Ratio	LOS	15-Minute Pedestrian Volumes	15-Minute Pedestrian Volumes	Surging Factor	V/C Ratio	LOS	V/C Ratio Increase
AM	E233 (UP)	40	90	945	725	0.8	0.96	C	0	725	0.8	0.96	C	-
	E252 (UP)	40	90	945	1278	0.8	1.69	F	-	-	-	-	-	-
PM	E233 (UP)	40	90	945	554	0.8	0.73	C	0	554	0.8	0.73	C	-
	E252 (UP)	40	90	945	441	0.8	0.58	B	-	-	-	-	-	-

**Notes:**  
 Methodology based on 2012 CEQR Technical Manual guidelines.  
 Decreases in demand from Existing to No-Action reflect changes in subway ridership patterns due to completion of the Second Avenue subway and other MTA capital improvements.  
 \* Escalator E252 is eliminated by the widening of stair U1 under the Modified Proposal Alternative.

Modified Proposal Special Permit Scenario Subway Stair Analysis  
at the Lexington Avenue - 53rd Street (E,M) Station

Peak Period	Stairway	Width (ft.)	Effective Width (ft.)	No-Action						Modified Proposal S.P. Increment		Modified Proposal Special Permit Scenario					
				15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	15-Minute Pedestrian Volumes		15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS
				Down	Up					Down	Up	Down	Up				
AM	O7	48.8	46.33	87	641	0.9	0.9	0.13	A	0	2	87	643	0.9	0.9	0.13	A
	P7	3.7	2.67	30	49	0.75	0.9	0.26	A	2	1	32	50	0.75	0.9	0.27	A
PM	O7	48.8	46.33	721	219	0.9	0.9	0.15	A	3	0	724	219	0.9	0.9	0.15	A
	P7	3.7	2.67	98	20	0.75	0.9	0.35	A	18	1	116	21	0.75	0.9	0.40	A

**Notes:**  
Methodology based on 2012 CEQR Technical Manual guidelines.

Modified Proposal Special Permit Scenario Subway Fare Array Analysis  
at the Lexington Ave - 53rd St Street (E,M) Station

Peak Period	Fare Array	Control Element	Quantity	No-Action						Modified Proposal S.P. Increment		Modified Proposal Special Permit Scenario					
				15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS	15-Minute Pedestrian Volumes		15-Minute Pedestrian Volumes		Surging Factor	Friction Factor	V/C Ratio	LOS
				In	Out					In	Out	In	Out				
AM	N305	Two-way Turnstile	11	83	1310	0.8	0.9	0.28	A	6	58	89	1368	0.8	0.9	0.29	A
PM	N305	Two-way Turnstile	11	622	126	0.8	0.9	0.17	A	59	14	681	140	0.8	0.9	0.19	A

**Notes:**  
Methodology based on 2012 CEQR Technical Manual guidelines.

Modified Proposal Special Permit Scenario Subway Escalator Analysis  
at the Lexington Ave - 53rd St Street (E,M) Station

Peak Period	Escalator	Width (in.)	Feet Per Minute	Guideline Capacity	No-Action				Modified Proposal S.P. Increment			Modified Proposal Special Permit Scenario							
					15-Minute Pedestrian Volumes	Surging Factor	V/C Ratio	LOS	Reallocated Volumes	New Demand	Total Increment	Width (in.)	Feet Per Minute	Guideline Capacity	15-Minute Pedestrian Volumes	Surging Factor	V/C Ratio	LOS	V/C Ratio Increase
AM	E243 (UP)	40	90	945	1043	0.75	1.47	E	-193	19	-174	40	100	1050	869	0.75	1.10	D	-0.368
	E244 (UP)	40	90	945	1016	0.75	1.43	E	-166	20	-146	40	100	1050	870	0.75	1.10	D	-0.329
	E254X (UP)	24	90	480	516	0.75	1.43	E	334	20	354	40	100	1050	870	0.75	1.10	D	-0.329
	E269 (DN)	40	90	945	910	0.95	1.01	D	-	5	5	40	100	1050	915	0.95	0.92	C	-0.096
PM	E243 (UP)	40	90	945	642	0.75	0.91	C	-321	6	-315	40	100	1050	327	0.75	0.42	A	-
	E244 (DN)	40	90	945	1196	0.95	1.33	E	99	21	120	40	100	1050	1316	0.95	1.32	D	-0.013
	E254X (UP)*	24	90	480	197	1.00	0.41	A	124	6	130	40	100	1050	327	0.75	0.42	A	-
	E269 (DN)	40	90	945	1336	0.95	1.49	E	99	21	120	40	100	1050	1456	0.95	1.46	E	-0.029

**Notes:**

Methodology based on 2012 CEQR Technical Manual guidelines.

\* During the PM peak period in the No-Action condition, Escalator 254X operates in the down direction.



### Future With the Modified Proposal Special Permit Scenario Local Bus Conditions

Peak Hour (1)	Route	Peak Direction	Maximum Load Point	Peak Hour Buses (2)	No-Action Available Capacity (3)	Proposed	Available Capacity w/Proposed Action (3)	M.P. Special Permit Increment	Available Capacity w/ Modified Proposal Special Permit Scenario (3)
						Action Project Increment			
AM	M1	NB	Madison Ave & E 58 St	4	72	1	71	1	71
		SB	5 Ave & W 72 St	4	73	13	60	10	63
		SB LTD	5 Ave & W 72 St	7	75	28	47	21	54
	M4	NB	W 32 St & 7 Ave	10	175	3	172	2	173
		SB	5 Ave & W 72 St	6	54	1	53	3	51
		SB LTD	Central Park N & 5 Ave	6	40	32	8	24	16
M42	EB	W 42 St & Broadway	41	28	92	-64	75	-47	
	WB	W 42 St & Broadway	17	49	4	45	9	40	
PM	M1	NB	Madison Ave & E 72 St	6	94	36	58	28	66
		SB	5 Ave & W 72 St	9	102	3	99	5	97
		NB LTD	Madison Ave & E 58 St	6	71	29	42	22	49
	M4	NB	Madison Ave & E 57 St	6	62	45	17	34	28
		SB	5 Ave & W 72 St	8	83	4	79	6	77
		NB LTD	Madison Ave & E 96 St	6	50	38	12	29	21
M42	EB	W 42 St & Broadway	16	7	6	1	9	-2	
	WB	E 42 St & Lexington Ave	35	6	62	-56	51	-45	

**Notes:**

(1) Peak hours: weekday 8:00-9:00 AM and 5:00-6:00 PM.

(2) Assumes service levels adjusted to address capacity shortfalls in the No-Action condition.

(3) Available capacity based on MTA NYCT loading guidelines of 54 passengers per standard bus.

\* Denotes a significant adverse impact based on current NYC Transit guidelines.

**MODIFIED PROPOSAL SPECIAL PERMIT SCENARIO:  
SIDEWALK CONDITIONS**

Location		Total Width (feet)	Effective Width (feet)	Modified Proposal Special Permit Scenario Volume Increment			Flow Rate (PMF)			Average Flow Level of Service			Platoon-Adjusted Level of Service		
				AM	MD	PM	AM	MD	PM	AM	MD	PM	AM	MD	PM
(S13) East 42nd Street Vanderbilt Ave to Madison Ave	North	22.5	10.0	175	202	207	8.8	6.7	11.7	C	B	D	D	D	E

Notes:  
PMF - Pedestrians per minute per foot

**MODIFIED PROPOSAL SPECIAL PERMIT SCENARIO:  
SIDEWALK SUMMARY COMPARISON**

Location		No-Action			With-Action			Modified Proposal Alternative			Modified Proposal Special Permit Scenario		
		Flow Rate (PMF)			Flow Rate (PMF)			Flow Rate (PMF)			Flow Rate (PMF)		
		AM	MD	PM	AM	MD	PM	AM	MD	PM	AM	MD	PM
(S13) East 42nd Street Vanderbilt Ave to Madison Ave	North	8.1	6.1	10.8	8.6	6.4	11.4	8.5	6.4	11.3	8.8	6.7	11.7

Notes:  
PMF - Pedestrians per minute per foot