A. INTRODUCTION

This chapter describes the existing traffic and parking characteristics of the study area, conditions projected in the Future without the Proposed Actions, conditions following implementation of the Proposed Actions, and identification of any associated impacts. As described in Chapter 1, "Project Description," the Proposed Actions would result in a mixed-use development on the Development Site and in residential development at two the Additional Housing Sites.

The chapter describes existing (2008) and projected (2017, 2019) traffic and parking conditions in the traffic and parking study areas with and without the Proposed Actions. An assessment of the Proposed Actions' potential traffic impacts for a 2017 interim year of development was undertaken for the purposes of determining: (1) whether any significant adverse impact identified with the completion of the Proposed Actions in 2019 would occur prior to the project's completion; (2) the availability and feasibility of mitigation measures for any significant adverse impact projected to occur in 2017; and (3) the potential for any significant adverse impact to occur in 2017 that would be eliminated by the completion of the full development program for the Proposed Actions. In addition, an examination was undertaken to determine whether any significant adverse environmental impact identified in 2017 would occur in an earlier year. Temporary impacts and street and roadway conditions that could occur during construction resulting from the Proposed Actions are presented in Chapter 21, "Construction Impacts."

PRINCIPAL CONCLUSIONS

The Proposed Actions would include substantial commercial and residential development on the Development Site, resulting in an increase in the number of vehicle trips into and out of the Development Site study area. Although anticipated development of the Additional Housing Sites would generate a minimal volume of additional vehicle trips, the number of vehicle trips that would be cumulatively generated by the Development Site and Additional Housing Sites forms the basis of the traffic impact evaluation within the traffic study area, which extends from West 23rd Street to West 54th Street and from Twelfth Avenue east to Broadway. Within this study area, 112 intersections were selected for detailed traffic impact analysis, consisting of 109 signalized and three unsignalized intersections. These intersections were analyzed for weekday AM weekday midday, weekday PM, and Saturday midday peak hour conditions. Due to the remoteness of the Additional Housing Sites from the Development Site and the minimal off-site parking demand that they would generate, the parking study area was focused within one-half mile of the Development Site.

Existing conditions traffic analysis indicated that although most intersections in the traffic study area operate at overall acceptable levels during the four analysis peak hours, individual approach movements at numerous intersections operate at mid-Level of Service (LOS) D or worse. Specifically, <u>61</u> approach movements at 38 intersections operate at mid-LOS D, LOS E or LOS F in the AM peak hour; 37 approach movements at 32 intersections operate at mid-LOS D, LOS E or LOS F in the

midday peak hour; <u>89</u> approach movements at <u>56</u> intersections operate at mid-LOS D, LOS E or LOS F in the PM peak hour; and 34 approach movements at <u>25</u> intersections operate at mid-LOS D, LOS E or LOS F in the Saturday midday peak hour. Little on-street parking is available weekdays in the parking study area, with most parking supply restricted to commercial vehicles and the few unrestricted spaces are fully utilized. Off-street parking surveys indicated a midday weekday off-street utilization rate of 79 percent with approximately 1,100 spaces available and a weekday overnight utilization rate of 37 percent with approximately 2,350 spaces available.

Significant levels of development were assumed within and in the area surrounding the traffic study area for analysis of the Future without the Proposed Actions condition. Vehicle trips generated by this development would result in a substantial deterioration in traffic operations from existing 2008 conditions to the 2019 full Build analysis year, with similar conditions projected for the 2017 interim analysis year. For example, in the weekday PM peak hour, the most congested condition in the study area, the number of intersection approach movements that would operate at mid-LOS D or worse would deteriorate from the 89 approach movements at 56 intersections indicated above for existing conditions to 144 approach movements at 83 intersections that would operate at mid-LOS D, LOS E or LOS F in the traffic study area under the 2019 Future without the Proposed Actions condition. Off-street parking demand would also increase significantly in the parking study area in the Future without the Proposed Actions condition. Off-street parking demand is projected to increase to 134 percent of supply during the weekday midday in 2019, but it is estimated that over 1,100 overnight spaces would be available. Interim year 2017 conditions would be similar.

For the Future with the Proposed Actions condition, the worst-case development scenario at the Development Site was analyzed for each traffic and parking analysis time period. Although traffic volumes generated by the Proposed Actions would cause further deterioration in traffic operations, the number of intersection approach movements that would operate at mid-LOS D or worse would not substantially increase. For example, in the weekday 2019 PM peak hour, the number of intersection approach movements that would operate at LOS E or LOS F is projected to increase from 133 intersection approach movements to 142 intersection approach movements. The 2017 Future with the Proposed Actions condition would be essentially the same with 140 intersection approach movements projected to operate in LOS E or F, as compared to 131 approach movements projected to operate at these levels in the 2017 Future without the Proposed Actions condition.

Under the 2019 Future with the Proposed Actions condition, significant adverse traffic impacts were identified for <u>82</u> intersection approaches at 64 intersections during the weekday AM peak hour, <u>77</u> approach movements at 60 intersections during the weekday midday peak hour, and <u>52</u> approach movements at <u>48</u> intersections during the Saturday midday peak hour. Under the 2017 Future with the Proposed Actions condition, significant adverse impacts were identified at 70 approach movements at <u>59</u> intersections during the weekday AM peak hour, 64 approach movements at <u>50</u> intersections during the weekday midday peak hour, <u>87</u> approach movements at <u>71</u> intersections during the weekday PM peak hour, and <u>43</u> approach movements at <u>42</u> intersections during the Saturday midday peak hour. In nearly all cases, the intersection approach movements on which a significant adverse traffic impact would occur in 2017 would also a have significant adverse traffic impact in 2019.

Subsequent to the completion of the DEIS, NYCDOT implemented the Green Light for Midtown pilot project, which includes the complete closure of Broadway to through traffic at

Times Square and Herald Square, as well as other geometric changes on Broadway between Columbus Circle and West 26th Street. This project is still in the pilot stage, and a determination whether these changes will be made permanent will occur at a later date. However, the Green Light for Midtown project, if implemented, could have the potential to change traffic circulation patterns at some of the study area intersections analyzed in the FEIS for the Western Rail Yard.

Given the potential for the Green Light for Midtown pilot project to be made permanent, a sensitivity analysis was conducted for the 2019 Future with and without the Proposed Actions. The goal of this analysis was to identify the potential in the 2019 analysis year for the Proposed Actions to result in additional significant adverse traffic impacts, as well as additional unmitigated significant adverse traffic impacts, under a 2019 Future without the Proposed Actions condition that includes traffic volume changes associated with implementation of the Green Light for Midtown project. The detailed analysis is provided in Appendix E8.

Overall, with implementation of the Green Light for Midtown project incorporated into the 2019 Future without the Proposed Actions condition, there is the potential that incremental traffic from the Proposed Actions could result in additional significant adverse traffic impacts when compared to the 2019 Future with the Proposed Actions condition analyzed in the FEIS due to the projected increase in No Build traffic volumes on the Sixth Avenue, Seventh Avenue, Ninth Avenue, and Eleventh Avenue corridors. There could be a total of four, five, four, and six additional intersections with significant adverse traffic impacts in the weekday AM, midday, PM, and Saturday midday peak hours, respectively, as compared to the 2019 Future with the Proposed Actions condition analyzed in the FEIS. Most of these impacts would likely be mitigated through the implementation of traffic engineering improvements such as modification of traffic signal timing and phasing; elimination of on-street parking near intersections ("daylighting"); traffic enforcement; channelization and lane designation changes; turn movement restrictions; and installation of traffic signals at appropriate unsignalized intersections.

With implementation of the Green Light for Midtown project incorporated into the 2019 Future without the Proposed Actions condition, there is also the potential that incremental traffic from the Proposed Actions could increase the number of locations with unmitigated significant adverse traffic impacts by one intersection during the weekday midday peak hour, two intersections during the weekday PM peak hour, and two intersections during the Saturday midday peak hour, as compared to the 2019 Future with the Proposed Actions condition analyzed in the FEIS. These significant adverse traffic impacts could not be mitigated using the same types of traffic capacity improvements presented in the FEIS. The number of locations with unmitigated significant traffic impacts during the weekday AM peak hour should remain unchanged. Of these locations with unmitigated significant adverse traffic impacts, one intersection (during the weekday midday peak hour) was previously identified in the DEIS as an impacted intersection that could be mitigated through the implementation of traffic engineering improvements. These projections are based on a preliminary assessment using a series of automatic traffic recorder (ATR) counts undertaken for a two-week period in September 2009. It is possible that future traffic counts would indicate that the level of potential traffic diversions would result in changes in the projections with respect to the potential impacts of the Proposed Actions. If the Green Light for Midtown project is made permanent, any additional data would be considered in the Hudson Yards traffic monitoring program so that appropriate measures could be implemented, as necessary.

The Proposed Actions would further exacerbate the weekday midday off-street parking shortfall in the parking study area, but not substantially. It is assumed that 1,600 accessory parking spaces would be provided at the Development Site, but the parking analysis indicated that this supply would not accommodate all the parking demand generated by the Proposed Actions during the weekday midday time period. However, it is expected that the available off-street parking supply would be able to accommodate the expected increase in overnight demand for all scenarios of the Proposed Actions in both 2017 and 2019. The reasonable worst-case development scenario would increase weekday midday off-site parking demand by approximately 320 spaces above 2019 demand levels in the Future without the Proposed Actions with the off-street utilization rate increasing from 134 percent to 139 percent of parking supply. Interim year 2017 weekday midday conditions would be slightly worse due to the assumption that only 850 of the 1.600 accessory spaces would be available in 2017 with a worst case off-site weekday demand of approximately 460 parking spaces. However, according to the CEQR Technical Manual, for proposed actions within the Manhattan Business District (defined as the area south of 61st Street), the inability of a proposed action or the surrounding area to accommodate projected future parking demands would be considered a parking shortfall, but is not deemed to be a significant adverse impact. The unsatisfied demand for parking spaces during the midday peak utilization period would result in vehicles parking outside of the parking study area and motorists walking greater distances to their destinations. As parking shortfalls do not constitute significant adverse impacts for CEQR purposes, mitigation is not required.

B. METHODOLOGY

The traffic and parking analyses provide an assessment of the impact of vehicular (auto, taxi, bus, and truck) trips generated by the Proposed Actions on traffic conditions and the effect of parking demand related to the Proposed Actions on available parking supply. As the Proposed Actions would be developed over a period of time, the traffic and parking analyses examine conditions in two analysis years—2019 as the Build year for complete development of the project sites and 2017 as an interim Build year for partial development of the sites. For the traffic and parking analyses in this chapter, the findings of the 2019 Build year analysis will be discussed in detail first, followed by the results of the 2017 interim Build year analysis.

The traffic analyses use the Maximum Commercial Scenario of the Development Site as the reasonable worst-case development scenario for the weekday analyses and the Maximum Residential Scenario-Hotel Option as the reasonable worst-case development scenario for the Saturday analysis combined with the projected development assumption for each of the Additional Housing Sites. As discussed later in this chapter, the Maximum Commercial Scenario would typically generate a higher level of travel demand during the weekday peak hours compared to both the Maximum Residential Scenario-Office Option and the Maximum Residential Scenario-Hotel Option. During the Saturday midday peak hour, the Maximum Residential Scenario options would generate more trips compared to the Maximum Commercial Scenario as a result of their larger residential components. Between the Maximum Residential Scenario options, the hotel option would generate more trips compared to the office option on a Saturday. As the comparative levels of parking demand generated by the development scenarios would exhibit greater fluctuation depending on the analysis period, the parking analyses examine conditions for all of the development scenarios.

According to the *City Environmental Quality Review (CEQR) Technical Manual*, actions proposed below 60th Street in Manhattan that would result in more than 240 residential dwelling units or 115,000 gross square feet (gsf) of office development require a traffic analysis. As the

Proposed Actions include development above these thresholds, a complete traffic analysis has been prepared. This section describes the traffic and parking analysis methodologies employed, including selection of analysis hours and locations, data collection, and assumptions.

STUDY AREA

CEQR Technical Manual guidelines suggest that intersections through which 50 or more project-generated vehicles may be expected to travel during peak periods should be analyzed as the basis for determining project impacts. To identify the scale of the traffic study area and proposed traffic analysis locations, project-generated weekday vehicle trips were assigned to the Manhattan roadway network and the projected number of project-generated vehicle trips that would travel through each intersection was summarized for reasonable worst-case conditions. Specific traffic study locations were then selected through coordination with the New York City Departments of City Planning and Transportation (DCP and NYCDOT).

The traffic study area, identified in Figure 17-1, extends south from the Development Site to West 23rd Street and north to West 54th Street, including intersections in the vicinity of the Additional Housing Sites on Ninth and Tenth Avenues. In the westerly direction, the study area is bounded by Twelfth Avenue, while in the easterly direction it extends east to Broadway. Within this study area, 112 intersections were selected for detailed traffic impact analysis, consisting of 109 signalized and three unsignalized intersections. Outside of the study area, project-generated traffic would be substantially dispersed and traffic related impacts would be unlikely to occur.

PEAK HOURS FOR ANALYSIS

Hour-by-hour estimates of the vehicular trips likely to be generated by the Proposed Actions indicate that trip generation would be greatest in the traditional weekday AM, midday, and PM peak traffic hours: 8 to 9 AM; Noon to 1 PM; and 5 to 6 PM. These hours, therefore, were selected for analysis of weekday traffic conditions. Weekend vehicular activity expected to be generated by the Proposed Actions, while less peaked and lower in total volume than weekday trip generation, could result in traffic impacts as well. For this reason, the Saturday midday 1 to 2 PM period was also selected for analysis.

CAPACITY ANALYSIS

Capacity analyses of conditions at the study area intersections were performed in accordance with the methodology presented in the *Highway Capacity Manual (HCM)*. Traffic data required for these analyses include turning movement volumes and other physical and operational elements. Official traffic signal timings were provided by NYCDOT for use in the signalized intersection analyses. Field inventories were conducted to document curbside parking regulations, lane usage and other physical characteristics needed as input to the analysis.

For signalized intersections, the *HCM* methodology provides a volume-to-capacity (v/c) ratio for each approach. A v/c ratio of 0.95 to 1.0 indicates near-capacity conditions, with potentially substantial delays. V/c ratios greater than 1.05 indicate saturated conditions with significant queues. The *HCM* also characterizes level of service (LOS), a qualitative measure of the delay typically experienced by drivers at an intersection. LOS ranges from LOS A (average delays per vehicle of 10 seconds or less) to LOS F (80 seconds or more average delay per vehicle).

At unsignalized intersections, the HCM assumes that major street traffic is unaffected by minor street demand. Left turns from the major street are assumed to be affected by the opposing



Traffic Study Area

Analyzed Intersection (Signalized)

Analyzed Intersection (Unsignalized) 0

traffic, if any while minor (or stop sign-controlled) street traffic is affected by all conflicting movements. The *HCM* methodology characterizes level of service on the basis of the delay experienced by minor street traffic, but employs different threshold delay values.

Table 17-1 provides the LOS/delay relationship for signalized and unsignalized intersections based on *HCM* methodology. LOS A, B, and C represent favorable to fair conditions, while at LOS D flow is impeded and delays become noticeable. LOS E represents the limit of acceptable delay, while LOS F is unacceptable to most drivers with delays exceeding 80 seconds.

TRANSPORTATION PLANNING FACTORS

Both the Maximum Commercial Scenario and Maximum Residential Scenario-Hotel Option would contain residences, retail space and a public school, and either office or hotel space. Table 17-2 compares the project components in each development scenario on the Development Site for 2019 and 2017. For the retail space, 80 percent is projected to be local retail (attracting trips from the surrounding neighborhood) and 20 percent is projected to be destination retail (attracting trips from a wider geographic area). As shown in Table 17-2, while there would be fewer dwelling units and less retail space in 2017 compared to 2019, there would be no change in the amount of office, hotel, or public school space between 2017 and 2019.

Table 17-1 Roadway Level of Service (LOS) Criteria

	v								
	Average Delay per Vehicle (Secon								
Level of Service	Signalized Intersections	Unsignalized Intersections							
Α	Less than 10.1	Less than 10.1							
В	10.1 to 20.0	10.1 to 15.0							
С	20.1 to 35.0	15.1 to 25.0							
D	35.1 to 55.0	25.1 to 35.0							
E	55.1 to 80.0	35.1 to 50.0							
F	Greater than 80.0	Greater than 50.0							

Table 17-2 Reasonable Worst-Case Development Scenarios for the Development Site

	Maximum Resid	lential Scenarios	Maximum Commercial
Project Component	Office Option	Hotel Option	Scenario
	2019 Analy	sis Year	
Residential	5,347 units	5,762 units	4,624 units
Office	1,495,000 gsf	0 gsf	2,185,000 gsf
Hotel	0 gsf	1,200 rooms	0 gsf
Local Retail	176,400 gsf	168,000 gsf	176,400 gsf
Destination Retail	44,100 gsf	42,000 gsf	44,100 gsf
Public School	120,000 gsf	120,000 gsf	120,000 gsf
	2017 Analy	sis Year	
Residential	1,948 units	1,948 units	1,896 units
Office	1,495,000 gsf	0 gsf	2,185,000 gsf
Hotel	0 gsf	1,200 rooms	0 gsf
Local Retail	130,200 gsf	121,800 gsf	130,200 gsf
Destination Retail	32,550 gsf	30,450 gsf	32,550 gsf
Retail	162,750 gsf	152,250 gsf	162,750 gsf
Public School	120,000 gsf	120,000 gsf	120,000 gsf

In addition to the development on the Development Site, the Proposed Actions would include the development of two Additional Housing Sites. The Ninth Avenue Site would be completed by 2017 and include approximately 108 dwelling units, 30,000 gross square feet (gsf) of office space used as a training facility by the Metropolitan Transportation Authority (MTA), and 6,750 gsf of local retail. The Tenth Avenue Site would be completed by 2019 and include approximately 204 dwelling units and 10,800 gsf of local retail. Although these sites would generate fewer than 50 peak hour vehicle strips, for conservative purposes the traffic analyses considered the cumulative effect of projected-generated trips from both the Development Site and the Additional Housing Sites.

Table 17-3 summarizes the transportation planning factors used to forecast travel demand for the various project components. The trip generation rates, temporal distributions, in/out splits, modal splits, and vehicle occupancy rates were based on: (1) accepted *CEQR Technical Manual* criteria; (2) rates that were developed for the *No. 7 Subway Extension—Hudson Yards Rezoning* and *Development Program Final Generic Environmental Impact Statement ("Hudson Yards FGEIS")*, updated where appropriate with 2000 Census journey-to-work and reverse journey-to-work data for census tracts in the study area; (3) factors developed for other EISs for similar development proposals in Manhattan as well as other New York City boroughs with similar levels of transit access; and (4) standard professional references.

Table 17-3

1.0%

11.0%

Out

50.0%

ln

50.0%

					Transport	ation Planr	ning Assun	nptions
Land Use:	Resid	ential	Offi	ce	Local		Destination	
Trip Generation:	(1)	(2)	(6)	(8)	(10,11)	(12,11)	(6) (11)	(13) (11)
•	Weekday	Saturday	Weekday	Saturday	Weekday	Saturday	Weekday	Saturday
Daily Person Trips	8.075	9.57	18.0	3.87	205	240	159	185
Net Daily Person Trips	8.075	9.57	18.0	3.87	154	180	119	139
,	per dwel	ling unit	per 1,0	00 gsf	per 1,0	00 gsf	per 1,0	00 gsf
Temporal Distribution:	(1,	3)	(1,1	4)	(6,	7)	(6,1	3)
AM (8-9)	9.1	%	11.8	3%	3.1	%	0.0	%
MD (12-1)	4.7	' %	15.0	0%	19.0	0%	9.5	%
PM (5-6)	10.	7%	13.7	7%	9.6	%	9.8	%
SAT (1-2)	7.0	1%	15.0	0%	9.5	%	9.9	%
In/Out Splits:	(1,	3)	(1,1	4)	(6)	(6,1	3)
	In	Out	ln	Out	In	Out	ln	Out
AM (8-9)	15%	85%	96%	4%	50%	50%	0%	0%
MD (12-1)	50%	50%	48%	52%	50%	50%	55%	45%
PM (5-6)	70%	30%	5%	95%	50%	50%	47%	53%
SAT (1-2)	50%	50%	57%	43%	50%	50%	52%	48%
Modal Splits:	(4		(9)	(6)	(6		(3,	6)
	Α	II	AM/PM	MD/SAT	Α	I	PM	MD/SAT
Auto	6.6		9.9%	2.0%	2.0		9.0%	9.0%
Taxi	6.5		2.4%	3.0%	3.0	%	4.0%	4.0%
Bus	5.8		15.8%	6.0%	6.0		8.0%	8.0%
Subway	37.	5%	43.7%	6.0%	6.0	%	26.5%	20.0%
Railroad	2.0		20.1%	0.0%	0.0		2.0%	0.0%
Walk	40.		7.2%	83.0%	83.0		50.5%	59.0%
Other	1.3		0.3%	0.0%	0.0		0.0%	0.0%
Work at Home	<u>0.0</u>		0.6%	0.0%	0.0		0.0%	0.0%
	100		100.0%	100.0%	100.		100.0%	100.0%
Vehicle Occupancy:	(6		(6		(6		(6	
Auto	1.6		1.6		1.6		2.0	
Taxi	1.4		1.4		1.4		2.0	
Truck Trip Generation:	(6)	(7)	(6)	(7)	(6)	(7)	(6)	(15)
	Weekday	Saturday	Weekday	Saturday	Weekday	Saturday	Weekday	Saturday
	0.03	0.01	0.16	0.01	0.35	0.02	0.35	0.02
	per dwel		per 1,0		per 1,0		per 1,0	
	(6,		(7		(6,		(6,1	
AM (8-9)	12.:		7.0		7.7		7.7	
MD (12-1)	8.7	' %	7.0	%	11.0	0%	11.0	0%

PM (5-6)

SAT (1-2)

- urces.
 Pushkarev & Zupan, "Urban Space for Pedestrians," 1975.
 ITE Trip Generation, 7th Edition, Land Use Code 220: High Rise Apartment Ratio of Weekday to Saturday Trip Generation Rates
- Farley/Moynihan West FEIS, 2006, Table 13-1

 Hudson Yards FGEIS, Appendix S-1 Based Upon 2000 US Census Journey-to-Work "Residence of Worker" data

Out

50.0%

Assumes approximately 8.3 students per staff based upon Hudson Yards FGEIS, Appendix S-1

2.0%

9.0%

No. 7 Subway Extension - Hudson Yards Rezoning and Development Program FGEIS, 2004.

In

50.0%

- Atlantic Yards and Arena Redevelopment FEIS, 2006
- Attaillet Fattos and Atenia Redevelopment FEIS, 2000
 ITE Trip Generation, 7th Edition, Land Use Code 710: General Office Building Ratio of Weekday to Saturday Trip Generation Rates
 Hudson Yards FGEIS, Appendix S-1 Updated by NYCDCP, NYCDOT and NYCT Working Group 8
- 10 City Environmental Quality Review (CEQR) Technical Manual, Appendix 3, 2001

- 11 Assumes 25% linked trips for retail uses as per No. 7 Subway Extension Hudson Yards Rezoning and Development Program FGEIS, 2004.
 12 ITE Trip Generation, 7th Edition, Land Use Code 851: Convenience Retail Ratio of Weekday to Saturday Trip Generation Rates
 13 ITE Trip Generation, 7th Edition, Land Use Code 820: Shopping Center Ratio of Weekday to Saturday Trip Generation Rates Directional distribution based upon Saturday peak hour of the generator

3.0%

11.0%

Out

50.0%

ln

50.0%

1.0%

11.0%

Out

50.0%

In

50.0%

- 14 ITE Trip Generation, 7th Edition, Land Use Code 710: General Office Building Ratio of Saturday Peak Hour Trip Generation Rate to Saturday Daily Rate. Directional distribution based upon Saturday peak hour of the generator
- 15 Assumes same Saturday truck trip generation rate as local retail.
- 16 Hotel Saturday trip generation rate assumed same as weekday as per NYCDOT 3-14-08*
- 17 Survey conducted as part of PS 59 Expansion, March 2007. To be used as per NYCDOT directive 11-5-08*
- 18 NYCDOT directive 11-5-08*
- 19 Curbside Pickup & Delivery Operations & Arterial Traffic Impacts, FHWA, February, 1981.*
- 20 Adult accompanying children walking to and from school based upon 88 per cent walk share and one parent per two children*
- 21 Adopted and modified from PS/IS at 268-284 Dyckman Street, Manhattan, 2004*
- 22 As per the Hudson Yards FGEIS, for hotels adjacent to the Jacob K. Javits Convention Center, 2 daily person trips per room are assumed to be linked walk trips between the Convention Center and the hotel.
- * Source indicator found in Table 17-3 (cont'd) on following page

Table 17-3 (cont'd)

Transportation Planning Assumptions

									ing modul	
				ry School		ry School		ate School		hool
Land Use:	Hot	tel	(Stud	dents)	(Par	ents)	(Stud	dents)	(S:	taff)
Trip Generation:	(6,16	,22)	(·	17)	(6,	20)	(2	21)	(5	, 6)
-	Weekday	Saturday	Weekday	Saturday	Weekday	Saturday	Weekday	Saturday	Weekday	Saturday
Daily Person Trips	9.42	9.42	2	0.0	1.8	0.0	2	0.0	2.0	0.0
Net Daily Person Trips	7.42	7.42	2	0.0	1.8	0.0	2	0.0	2.0	0.0
, ,	per ro	oom	per s	tudent	per st	tudent	pe	r student	per en	nployee
Temporal Distribution:	(3,6			6)		6)		6)		(6)
AM (8-9)	7.5			.0%		.0%		.0%		0%
MD (12-1)	14.4			0%		0%		0%		0%
PM (5-6)	12.8			5%		5%		5%		5%
SAT (1-2)	7.5			0%		0%		0%		0%
In/Out Splits:	(3,6			6)		6)		6)		(6)
	In (S,	Out	In `	Out	In ``	Out	In `	Out	In `	Out
AM (8-9)	39%	61%	100%	0%	100%	100%	100%	0%	100%	0%
MD (12-1)	54%	46%	50%	50%	100%	100%	50%	50%	50%	50%
PM (5-6)	65%	35%	0%	100%	100%	100%	0%	100%	0%	100%
SAT (1-2)	56%	44%	0%	0%	0%	0%	0%	0%	0%	0%
Modal Splits:	(3,6)	(6)		17)		6)		21)	(9)	(6)
oud. opo.	AM/PM/SAT	MIDDAY		ID/PM		ID/PM		ID/PM	AM/PM	MIDDAY
Auto	9.0%	8.0%		2%		%		%	9.9%	2.0%
Taxi	18.0%	15.0%		7%		%		%	2.4%	3.0%
Bus	3.0%	3.0%		0%		%		0%	15.8%	6.0%
Subway	24.0%	13.0%		0%		%		5%	43.7%	6.0%
Railroad	0.0%	0.0%		0%		%		%	20.1%	0.0%
Walk	46.0%	61.0%		.2%		.0%		.0%	7.2%	83.0%
Other (School Bus)	0.0%	0.0%		9%		0%		0%	0.9%	0.0%
Work at Home	0.0%	0.0%		0%		0%		0%	0.0%	0.0%
Trom at Florid	100.0%	100.0%).0%		.0%).0%	100.0%	100.0%
Vehicle Occupancy:	(6)			,18)						17)
Auto	1.4			.74	N	IA	N	IA.		.20
Taxi	1.8			40		IA		IA		.40
Truck Trip Generation:	(6)	(19)	••		•		•			(6)
	Weekday	Saturday							Weekday	Saturday
	0.06	0.01							0.03	0.00
	per 1,00	00 asf								000 gsf
	(6,1									(6)
AM (8-9)	12.2									6%
MD (12-1)	8.7									.0%
PM (5-6)	1.0									0%
SAT (1-2)	9.0									0%
(· -/	In	Out							In o.	Out
	50.0%	50.0%							50.0%	50.0%
0	00.070	00.070							00.073	00.070

Sources:

- Pushkarev & Zupan, "Urban Space for Pedestrians," 1975.
- ITE Trip Generation, 7th Edition, Land Use Code 220: High Rise Apartment Ratio of Weekday to Saturday Trip Generation Rates
- Farley/Moynihan West FEIS, 2006, Table 13-1
- Hudson Yards FGEIS, Appendix S-1 Based Upon 2000 US Census Journey-to-Work "Residence of Worker" data Assumes approximately 8.3 students per staff based upon *Hudson Yards FGEIS*, Appendix S-1 No. 7 Subway Extension Hudson Yards Rezoning and Development Program FGEIS, 2004.

- Atlantic Yards and Arena Redevelopment FEIS, 2006
- ITE Trip Generation, 7th Edition, Land Use Code 710: General Office Building Ratio of Weekday to Saturday Trip Generation Rates
- Hudson Yards FGEIS, Appendix S-1 Updated by NYCDCP, NYCDOT and NYCT Working Group
- 10 City Environmental Quality Review (CEQR) Technical Manual, Appendix 3, 2001
- 11 Assumes 25% linked trips for retail uses as per No. 7 Subway Extension Hudson Yards Rezoning and Development Program FGEIS, 2004.
 12 ITE Trip Generation, 7th Edition, Land Use Code 851: Convenience Retail Ratio of Weekday to Saturday Trip Generation Rates
- 13 ITE Trip Generation, 7th Edition, Land Use Code 820: Shopping Center Ratio of Weekday to Saturday Trip Generation Rates Directional distribution based upon Saturday peak hour of the generator
- 14 ITE Trip Generation, 7th Edition, Land Use Code 710: General Office Building Ratio of Saturday Peak Hour Trip Generation Rate to Saturday Daily Rate. Directional distribution based upon Saturday peak hour of the generator
 15 Assumes same Saturday truck trip generation rate as local retail.
- 16 Hotel Saturday trip generation rate assumed same as weekday as per NYCDOT 3-14-08
- Survey conducted as part of PS 59 Expansion, March 2007. To be used as per NYCDOT directive 11-5-08
- 18 NYCDOT directive 11-5-08
- 19 Curbside Pickup & Delivery Operations & Arterial Traffic Impacts, FHWA, February, 1981.
- 20 Adult accompanying children walking to and from school based upon 88 per cent walk share and one parent per two children
- Adopted and modified from PS/IS at 268-284 Dyckman Street, Manhattan, 2004
- As per the Hudson Yards FGEIS, for hotels adjacent to the Jacob K. Javits Convention Center, 2 daily person trips per room are assumed to be linked walk trips between the Convention Center and the hotel

The background growth in the demand for parking applied for the study area, i.e., the growth in parking demand independent of specific development projects expected to be completed in the future in the study area, is consistent with that developed and applied for the *Hudson Yards FGEIS*. Further details on the process used to select trip generation rates are presented in Appendix E, "Transportation Technical Memos and Analyses."

VEHICLE TRIP GENERATION

The number of peak hour vehicle trips that would be generated in 2019 by the Maximum Residential Scenario-Office Option, Maximum Residential Scenario-Hotel Option, and Maximum Commercial Scenario are summarized in Tables 17-4, 17-5, and 17-6, respectively. Table 17-7 summarizes the number of vehicle trips that would be generated by the Additional Housing Sites, both of which would be developed by 2019.

The number of peak hour vehicle trips that would be generated in 2017 by the Maximum Residential Scenario-Office Option, Maximum Residential Scenario-Hotel Option, and Maximum Commercial Scenario are summarized in Tables 17-8, 17-9, and 17-10, respectively. Only the Ninth Avenue Site would be completed by 2017 (refer to Table 17-7 for the vehicle trips generated by this site).

Table 17-11 provides a comparison of the number of vehicle trips that would be generated by each of the reasonable worst-case development scenarios in 2019 and 2017. In both analysis years, the Maximum Commercial Scenario would generate the most vehicle trips during the weekday AM, midday, and PM peak hours, while the Maximum Residential Scenario-Hotel Option would generate the most vehicle trips during the Saturday midday peak hour. The traffic analyses, therefore, assume the Maximum Commercial Scenario as the reasonable worst-case development scenario for the weekday analyses and the Maximum Residential Scenario-Hotel Option as the reasonable worst-case development scenario for the Saturday analysis.

IMPACT CRITERIA

Based on the thresholds established for signalized intersections in the *CEQR Technical Manual*, a traffic impact would occur if a No Build LOS A, B or C deteriorates to unacceptable mid-LOS D, or to a LOS E or F in the Future with the Proposed Actions conditions. The *CEQR Technical Manual* further states that for a No Build mid-LOS D, an increase of five or more seconds of delay in a lane group in the Future with the Proposed Actions condition should be considered significant. For No Build LOS E, an increase in delay of four seconds should be considered significant. For No Build LOS F, three seconds of delay should be considered significant, however, if a Future without the Proposed Actions LOS F condition already has delays in excess of 120 seconds, an increase of one second in delay should be considered significant, unless the Proposed Actions would generate fewer than five vehicles through that lane group in the peak hour. For unsignalized intersections, similar impact criteria are applicable, however for a minor street to trigger a significant impact, 90 passenger car equivalents must be identified in the Future with the Proposed Actions condition in any peak hour.

Table 17-4 Vehicle Trips Generated by Maximum Residential Scenario (Office Option) - 2019

		- P 5 C	ciicia	cca sj	AM	mum Kc	514401101		iidi i	(01)	MD	puon)	2017
				School	AW	Balanced				School		Balanced	
Land Use		Auto	Truck	Bus	Taxi	Taxi	Total	Auto	Truck	Bus	Taxi	Taxi	Total
	In	24	10	0	27		61	41	7	0	47		95
Residential	Out	134	10	0	155		299	41	7	0	47		95
	Total	158	20	0	182		360	82	14	0	94		190
0"	In Out	183	8	0	52		243	23	8	0	42		73
Office	Out	8	8	0	2		18	25	8	0	45		78
	Total In	191 5	16 2	0 0	54 9		261 16	48 31	16 3	0 0	87 55		151 89
Local Retail	Out	5	2	0	9		16	31	3	0	55 55		89
Local Netali	Total	10	4	0	18		32	62	6	0	110		178
	In	0	1	0	0		1	12	1	0	5		18
Destination Retail	Out	0	1	Ö	Ö		1	10	1	Ö	4		15
-	Total	0	2	0	0		2	22	2	0	9		33
	In	15	0	2	5		22	0	0	0	0		0
Elementary School	Out	15	0	2	0		17	0	0	0	0		0
301001	Total	30	0	4	5		39	0	0	0	0		0
Intermediate	In	0	0	0	0		0	0	0	0	0		0
School -	Out	0	0	0	0		0	0	0	0	0		0
0011001	Total	0	0	0	0		0	0	0	0	0		0
	In .	1	0	0	0		1	0	0	0	0		0
School (Staff)	Out	0	0	0	0		0	0	0	0	0		0
	Total	1	0	0	0	212	1	0	0 19	0	0 149		0
Total Trips	In Out	228 162	21 21	2 2	93 166	213 213	464 398	107 107	19	0 0	151	226 226	352 352
Total Trips	Total	390	42	4	259	426	862	214	38	0	300	452	704
	Total	330	72	7	<u>PM</u>	420	002	217	30	O	SAT	732	704
				School		Balanced				School		Balanced	
Land Use		Auto	Truck	_									
				Bus	Taxi	Taxi	Total		Truck	Bus	Taxi	Taxi	Total
	In	129	2	0	150		281	72	7	0	83		162
Residential	Out	129 55	2 2	0 0	150 64		281 121	72 72	7 7	0	83 83		162 162
Residential	Out Total	129 55 184	2 2 4	0 0	150 64 214		281 121 402	72 72 144	7 7 14	0 0	83 83 166		162 162 324
-	Out Total In	129 55 184 11	2 2 4 4	0 0 0 0	150 64 214 3	 	281 121 402 18	72 72 144 6	7 7 14 1	0 0 0	83 83 166 11	 	162 162 324 18
Residential Office	Out Total In Out	129 55 184 11 210	2 2 4 4 4	0 0 0 0	150 64 214 3 60	 	281 121 402 18 274	72 72 144 6 5	7 7 14 1 1	0 0 0 0	83 83 166 11 8	 	162 162 324 18 14
-	Out Total In Out Total	129 55 184 11 210 221	2 2 4 4 4 4 8	0 0 0 0 0	150 64 214 3 60 63	 	281 121 402 18 274 292	72 72 144 6 5	7 7 14 1 1	0 0 0 0 0	83 83 166 11 8	 	162 162 324 18 14 32
Office _	Out Total In Out Total In	129 55 184 11 210 221 16	2 2 4 4 4 8 0	0 0 0 0 0	150 64 214 3 60 63 28	 	281 121 402 18 274 292 44	72 72 144 6 5 11	7 7 14 1 1 2 3	0 0 0 0 0	83 83 166 11 8 19 32	 	162 162 324 18 14 32 53
-	Out Total In Out Total In Out Out	129 55 184 11 210 221 16 16	2 2 4 4 4 8 0 0	0 0 0 0 0 0	150 64 214 3 60 63 28 28	 	281 121 402 18 274 292 44 44	72 72 144 6 5 11 18 18	7 7 14 1 1 2 3 3	0 0 0 0 0 0	83 83 166 11 8 19 32 32	 	162 162 324 18 14 32 53 53
Office _	Out Total In Out Total In Out Total In Out Total	129 55 184 11 210 221 16 16 32	2 2 4 4 4 8 0 0	0 0 0 0 0 0	150 64 214 3 60 63 28 28 56	 	281 121 402 18 274 292 44 44 88	72 72 144 6 5 11 18 18	7 7 14 1 1 2 3 3	0 0 0 0 0 0 0	83 83 166 11 8 19 32 32 64	 	162 162 324 18 14 32 53 53 106
Office	Out Total In Out Total In Out Total In Out Total In	129 55 184 11 210 221 16 16	2 2 4 4 4 8 0 0	0 0 0 0 0 0	150 64 214 3 60 63 28 28	 	281 121 402 18 274 292 44 44	72 72 144 6 5 11 18 18	7 7 14 1 1 2 3 3	0 0 0 0 0 0	83 83 166 11 8 19 32 32		162 162 324 18 14 32 53 53
Office _	Out Total In Out Total In Out Total In Out Total In	129 55 184 11 210 221 16 16 32 11	2 2 4 4 4 8 0 0 0	0 0 0 0 0 0 0	150 64 214 3 60 63 28 28 56 5	 	281 121 402 18 274 292 44 44 88 16	72 72 144 6 5 11 18 18 36 14	7 7 14 1 1 2 3 3 6 1	0 0 0 0 0 0 0	83 83 166 11 8 19 32 32 64 6		162 162 324 18 14 32 53 53 106 21
Office Local Retail Destination Retail	Out Total In Out Total In Out Total In Out Total In Out	129 55 184 11 210 221 16 16 32 11 12	2 2 4 4 4 8 0 0 0	0 0 0 0 0 0 0 0	150 64 214 3 60 63 28 28 56 5	 	281 121 402 18 274 292 44 44 88 16 17	72 72 144 6 5 11 18 18 36 14 13	7 7 14 1 1 2 3 3 6 1	0 0 0 0 0 0 0 0	83 83 166 11 8 19 32 32 64 6 6		162 162 324 18 14 32 53 53 106 21 20
Office Local Retail Destination Retail Elementary	Out Total In Out Total In Out Total In Out Total In Out Total	129 55 184 11 210 221 16 16 32 11 12	2 2 4 4 4 8 0 0 0 0	0 0 0 0 0 0 0 0	150 64 214 3 60 63 28 28 56 5 5	 	281 121 402 18 274 292 44 44 88 16 17	72 72 144 6 5 11 18 18 36 14 13	7 7 14 1 1 2 3 3 6 1 1	0 0 0 0 0 0 0 0 0	83 83 166 11 8 19 32 32 64 6 6		162 162 324 18 14 32 53 53 106 21 20
Office Local Retail Destination Retail	Out Total In Out	129 55 184 11 210 221 16 16 32 11 12 23 1	2 2 4 4 4 8 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	150 64 214 3 60 63 28 28 56 5 5	 	281 121 402 18 274 292 44 44 88 16 17 33 2	72 72 144 6 5 11 18 18 36 14 13 27 0	7 7 14 1 1 2 3 3 6 1 1 1	0 0 0 0 0 0 0 0 0	83 83 166 11 8 19 32 32 64 6 6		162 162 324 18 14 32 53 53 106 21 20 41 0
Office Local Retail Destination Retail Elementary School	Out Total In Out	129 55 184 11 210 221 16 16 32 11 12 23 1 1 2 0	2 2 4 4 4 8 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	150 64 214 3 60 63 28 28 56 5 5 5 0 0	 	281 121 402 18 274 292 44 44 88 16 17 33 2 2 4	72 72 144 6 5 11 18 36 14 13 27 0 0	7 7 14 1 1 2 3 3 6 1 1 2 0 0	0 0 0 0 0 0 0 0 0 0 0	83 83 166 11 8 19 32 32 64 6 6 12 0 0		162 162 324 18 14 32 53 53 106 21 20 41 0 0
Office Local Retail Destination Retail Elementary School Intermediate	Out Total In Out	129 55 184 11 210 221 16 16 32 11 12 23 1 1 2 0 0	2 2 4 4 4 8 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	150 64 214 3 60 63 28 28 56 5 5 0 0 0		281 121 402 18 274 292 44 44 88 16 17 33 2 2 4 0	72 72 144 6 5 11 18 18 36 14 13 27 0 0 0	7 7 14 1 1 2 3 3 6 1 1 1 2 0 0	0 0 0 0 0 0 0 0 0 0	83 83 166 11 8 19 32 32 64 6 6 0 0 0		162 162 324 18 14 32 53 53 106 21 20 41 0 0
Office Local Retail Destination Retail Elementary School	Out Total In Out	129 55 184 11 210 221 16 16 32 11 12 23 1 1 2 0 0	2 2 4 4 4 8 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 2 0 0	150 64 214 3 60 63 28 28 56 5 5 10 0 0 0		281 121 402 18 274 292 44 44 88 16 17 33 2 2 4 0 0	72 72 144 6 5 11 18 18 36 14 13 27 0 0 0 0	7 7 14 1 1 2 3 3 6 1 1 1 2 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	83 83 166 11 8 19 32 32 64 6 6 0 0 0		162 162 324 18 14 32 53 53 106 21 20 41 0 0 0
Office Local Retail Destination Retail Elementary School Intermediate School	Out Total In Out	129 55 184 11 210 221 16 16 32 11 12 23 1 1 2 0 0	2 2 4 4 4 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 2 0 0	150 64 214 3 60 63 28 28 56 5 5 10 0 0 0 0		281 121 402 18 274 292 44 44 88 16 17 33 2 2 4 0 0	72 72 144 6 5 11 18 18 36 14 13 27 0 0 0 0 0	7 7 14 1 1 2 3 3 6 1 1 1 2 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	83 83 166 111 8 19 32 32 64 6 6 0 0 0 0		162 162 324 18 14 32 53 53 106 21 20 41 0 0
Office Local Retail Destination Retail Elementary School Intermediate	Out Total In Out	129 55 184 11 210 221 16 16 32 11 12 23 1 1 2 0 0 0	2 2 4 4 4 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 2 0 0 0	150 64 214 3 60 63 28 28 56 5 5 5 0 0 0 0 0		281 121 402 18 274 292 44 44 88 16 17 33 2 2 4 0 0	72 72 144 6 5 11 18 18 36 14 13 27 0 0 0 0 0	7 7 14 1 1 2 3 3 6 1 1 1 2 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	83 83 166 111 8 19 32 32 64 6 6 0 0 0 0 0		162 162 324 18 14 32 53 53 106 21 20 41 0 0 0
Office Local Retail Destination Retail Elementary School Intermediate School	Out Total In Out	129 55 184 11 210 221 16 16 32 11 12 23 1 1 2 0 0 0 0	2 2 4 4 4 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	150 64 214 3 60 63 28 28 28 56 5 5 10 0 0 0 0		281 121 402 18 274 292 44 44 88 16 17 33 2 2 4 0 0	72 72 144 6 5 11 18 36 14 13 27 0 0 0 0 0 0	7 7 14 1 1 2 3 3 6 1 1 1 2 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	83 83 166 111 8 19 32 32 64 6 6 6 12 0 0 0 0		162 162 324 18 14 32 53 53 53 106 21 20 41 0 0 0
Office Local Retail Destination Retail Elementary School Intermediate School School (Staff)	Out Total In Out	129 55 184 11 210 221 16 16 32 11 12 23 1 1 2 0 0 0 0 168	2 2 4 4 4 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	150 64 214 3 60 63 28 56 5 5 10 0 0 0 0 0		281 121 402 18 274 292 44 44 88 16 17 33 2 2 4 0 0 0 0 0	72 72 144 6 5 11 18 18 36 14 13 27 0 0 0 0 0 0 0	7 7 14 1 1 2 3 3 6 1 1 1 2 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	83 83 166 111 8 19 32 32 64 6 6 0 0 0 0 0 0	 195	162 162 324 18 14 32 53 53 53 106 21 20 41 0 0 0 0 0 0
Office Local Retail Destination Retail Elementary School Intermediate School	Out Total In Out	129 55 184 11 210 221 16 16 32 11 12 23 1 1 2 0 0 0 0	2 2 4 4 4 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	150 64 214 3 60 63 28 28 28 56 5 5 10 0 0 0 0		281 121 402 18 274 292 44 44 88 16 17 33 2 2 4 0 0	72 72 144 6 5 11 18 36 14 13 27 0 0 0 0 0 0	7 7 14 1 1 2 3 3 6 1 1 1 2 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	83 83 166 111 8 19 32 32 64 6 6 6 12 0 0 0 0		162 162 324 18 14 32 53 53 53 106 21 20 41 0 0 0

Table 17-5 Vehicle Trips Generated by Maximum Residential Scenario (Hotel Option) – 2019

			•		<u>AM</u> $$	Maxillu					MD	Jpuon) -	
				School	AIII	Balanced				School	<u>IVID</u>	Balanced	
Land Use		Auto	Truck	Bus	Taxi	Taxi	Total	Auto	Truck	Bus	Taxi	Taxi	Total
	In	25	11	0	29		65	44	8	0	51		103
Residential	Out	144	11	0	167		322	44	8	0	51		103
	Total	169	22	0	196		387	88	16	0	102		206
	In	17	4	0	26		47	40	3	0	58		101
Hotel	Out	26	4	0	41		71	34	3	0	49		86
	Total	43	8	0	67		118	74	6	0	107		187
	In	5	2	0	9		16	30	3	0	53		86
Local Retail	Out	5	2	0	9		16	30	3	0	53		86
	Total	10	4	0	18		32	60	6	0	106		172
Destination	In	0	1	0	0		1	12	1	0	5		18
Retail	Out	0	1	0	0		1	10	1	0	4		15
retaii	Total	0	2	0	0		2	22	2	0	9		33
Elementary	In	15	0	2	5		22	0	0	0	0		0
School	Out	15	0	2	0		17	0	0	0	0		0
0011001	Total	30	0	4	5		39	0	0	0	0		0
Intermediate	In	0	0	0	0		0	0	0	0	0		0
School	Out	0	0	0	0		0	0	0	0	0		0
0000.	Total	0	0	0	0		0	0	0	0	0		0
	ln .	1	0	0	0		1	0	0	0	0		0
School (Staff)	Out	0	0	0	0		0	0	0	0	0		0
	Total	1	0	0	0		1	0	0	0	0		0
	In .	63	18	2	69	252	335	126	15	0	167	241	382
Total Trips	Out	190	18	2	217	252	462	118	15	0	157	241	374
	Total	253	36	4	286	504	797	244	30	0	324	482	756
				School	<u>PM</u>	Ralanced				· ·	<u>SAT</u>	Ralancod	
I and Use		Auto	Truck	School		Balanced Taxi	Total	Auto	Truck	School		Balanced Taxi	Total
Land Use	In	Auto 139	Truck 2	Bus	Taxi	Balanced Taxi 		Auto 77	Truck 8	School Bus	Taxi	Balanced Taxi	
	In Out	139	2		Taxi 162	Taxi	303	Auto 77 77	Truck 8 8	School		Taxi	175
Land Use Residential	Out	139 60	2 2	Bus 0 0	Taxi 162 69	Taxi 	303 131	77 77	8 8	School Bus 0 0	Taxi 90 90	Taxi 	175 175
	Out Total	139	2 2 4	8us 0 0	Taxi 162	Taxi 	303 131 434	77 77 154	8	School Bus 0 0	Taxi 90	Taxi 	175 175 350
	Out	139 60 199	2 2	Bus 0 0	Taxi 162 69 231	Taxi 	303 131	77 77	8 8 16	School Bus 0 0	Taxi 90 90	Taxi 	175 175
Residential	Out Total In	139 60 199 48	2 2 4 0	Bus 0 0 0	Taxi 162 69 231 74	Taxi 	303 131 434 122	77 77 154 24	8 8 16 0	School Bus 0 0 0	Taxi 90 90 180 37	Taxi 	175 175 350 61
Residential	Out Total In Out	139 60 199 48 26	2 2 4 0 0	0 0 0 0 0	Taxi 162 69 231 74 40	Taxi 	303 131 434 122 66	77 77 154 24 19	8 8 16 0	School Bus 0 0 0	Taxi 90 90 180 37 29	Taxi 	175 175 350 61 48
Residential	Out Total In Out Total	139 60 199 48 26 74	2 2 4 0 0	Bus 0 0 0 0 0 0	Taxi 162 69 231 74 40	Taxi 	303 131 434 122 66 188	77 77 154 24 19	8 8 16 0 0	School Bus 0 0 0 0 0 0 0 0 0	Taxi 90 90 180 37 29	Taxi 	175 175 350 61 48 109
Residential Hotel	Out Total In Out Total In	139 60 199 48 26 74 15	2 2 4 0 0 0	Bus 0 0 0 0 0 0 0	Taxi 162 69 231 74 40 114 27	Taxi	303 131 434 122 66 188 42	77 77 154 24 19 43 17	8 8 16 0 0 0 3	School Bus 0 0 0 0 0 0 0 0 0 0	7axi 90 90 180 37 29 66 31	Taxi	175 175 350 61 48 109 51
Residential Hotel Local Retail	Out Total In Out Total In Out Out	139 60 199 48 26 74 15	2 2 4 0 0 0	Bus 0 0 0 0 0 0 0 0	Taxi 162 69 231 74 40 114 27 27	Taxi	303 131 434 122 66 188 42 42	77 77 154 24 19 43 17	8 8 16 0 0 0 3 3	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7axi 90 90 180 37 29 66 31 31	Taxi	175 175 350 61 48 109 51 51
Residential Hotel Local Retail Destination	Out Total In Out Total In Out Total In Out Total	139 60 199 48 26 74 15 15	2 2 4 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0	Taxi 162 69 231 74 40 114 27 27	Taxi	303 131 434 122 66 188 42 42	77 77 154 24 19 43 17 17	8 8 16 0 0 0 3 3 6	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 90 90 180 37 29 66 31 31	Taxi	175 175 350 61 48 109 51 51
Residential Hotel Local Retail	Out Total In Out Total In Out Total In Out	139 60 199 48 26 74 15 15	2 2 4 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0	Taxi 162 69 231 74 40 114 27 27 54 5	Taxi	303 131 434 122 66 188 42 42 42 84 15	77 77 154 24 19 43 17 17 34	8 8 16 0 0 0 3 3 6 1	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 90 90 180 37 29 66 31 31 62 6	Taxi	175 175 350 61 48 109 51 51 102 21
Residential Hotel Local Retail Destination Retail	Out Total In Out	139 60 199 48 26 74 15 15 30 10 12 22 1	2 2 4 0 0 0 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 162 69 231 74 40 114 27 54 5 5	Taxi	303 131 434 122 66 188 42 42 84 15 17 32 2	77 77 154 24 19 43 17 17 34 14 12 26 0	8 8 16 0 0 0 3 3 6 1 1 2 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 90 90 180 37 29 66 31 31 62 6 6	Taxi	175 175 350 61 48 109 51 51 102 21 19 40 0
Residential Hotel Local Retail Destination Retail Elementary	Out Total In Out	139 60 199 48 26 74 15 15 30 10 12 22 1	2 2 4 0 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0	Taxi 162 69 231 74 40 114 27 27 54 5 5	Taxi	303 131 434 122 66 188 42 42 84 15 17	77 77 154 24 19 43 17 17 34 14 12	8 8 16 0 0 0 3 3 6 1 1	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 90 90 180 37 29 66 31 31 62 6 6	Taxi	175 175 350 61 48 109 51 51 102 21 19
Residential Hotel Local Retail Destination Retail	Out Total In Out	139 60 199 48 26 74 15 15 30 10 12 22 1	2 2 4 0 0 0 0 0 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 162 69 231 74 40 114 27 54 5 5	Taxi	303 131 434 122 66 188 42 42 84 15 17 32 2	77 77 154 24 19 43 17 17 34 14 12 26 0	8 8 16 0 0 0 3 3 6 1 1 2 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 90 90 180 37 29 66 31 31 62 6 6	Taxi	175 175 350 61 48 109 51 51 102 21 19 40 0
Residential Hotel Local Retail Destination Retail Elementary School	Out Total In Out	139 60 199 48 26 74 15 15 30 10 12 22 1 1	2 2 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 162 69 231 74 40 114 27 54 5 10 0	Taxi	303 131 434 122 66 188 42 42 84 15 17 32 2	77 77 154 24 19 43 17 17 34 14 12 26 0 0	8 8 16 0 0 0 3 3 3 6 1 1 1 2 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 90 90 180 37 29 66 31 31 62 6 6 6	Taxi	175 175 350 61 48 109 51 51 102 21 19 40 0
Residential Hotel Local Retail Destination Retail Elementary School Intermediate	Out Total In Out Total Total In Out Total In Out	139 60 199 48 26 74 15 15 30 10 12 22 1 1	2 2 4 0 0 0 0 0 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 162 69 231 74 40 114 27 27 54 5 10 0 0	Taxi	303 131 434 122 66 188 42 42 84 15 17 32 2	77 77 154 24 19 43 17 17 34 14 12 26 0	8 8 8 16 0 0 0 3 3 3 6 1 1 2 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 90 90 180 37 29 66 31 31 62 6 6	Taxi	175 175 350 61 48 109 51 51 102 21 19 40 0
Residential Hotel Local Retail Destination Retail Elementary School	Out Total In Out	139 60 199 48 26 74 15 15 30 10 12 22 1 1 2 0 0	2 2 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 162 69 231 74 40 114 27 27 54 5 10 0 0 0	Taxi	303 131 434 122 66 188 42 42 84 15 17 32 2 2	77 77 154 24 19 43 17 17 34 14 12 26 0 0 0	8 8 8 16 0 0 0 0 3 3 3 6 1 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 90 90 180 37 29 66 31 31 62 6 6 6 0 0	Taxi	175 175 350 61 48 109 51 51 102 21 19 40 0 0 0
Residential Hotel Local Retail Destination Retail Elementary School Intermediate	Out Total In Out	139 60 199 48 26 74 15 15 30 10 12 22 1 1 2 0 0	2 2 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 162 69 231 74 40 114 27 54 5 5 10 0 0 0 0 0 0	Taxi	303 131 434 122 66 188 42 42 84 15 17 32 2 2 4 0 0	77 77 154 24 19 43 17 17 34 14 12 26 0 0 0 0 0 0	8 8 8 16 0 0 0 3 3 3 6 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 90 90 180 37 29 66 31 31 62 6 6 12 0 0	Taxi	175 175 350 61 48 109 51 51 102 21 19 40 0 0
Residential Hotel Local Retail Destination Retail Elementary School Intermediate	Out Total In Out	139 60 199 48 26 74 15 15 30 10 12 22 1 1 2 0 0	2 2 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 162 69 231 74 40 114 27 54 5 10 0 0 0 0 0 0 0	Taxi	303 131 434 122 66 188 42 42 84 15 17 32 2 2 2 4 0 0	77 77 154 24 19 43 17 17 34 14 12 26 0 0 0 0 0 0	8 8 8 16 0 0 0 0 3 3 3 6 1 1 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 90 90 180 37 29 66 31 31 62 6 6 12 0 0	Taxi	175 175 350 61 48 109 51 51 102 21 19 40 0 0 0
Residential Hotel Local Retail Destination Retail Elementary School Intermediate School	Out Total In Out	139 60 199 48 26 74 15 15 30 10 12 22 2 1 1 2 0 0	2 2 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 162 69 231 74 40 114 27 27 54 5 0 0 0 0 0 0 0	Taxi	303 131 434 122 66 188 42 42 84 15 17 32 2 2 4 0 0	77 77 154 24 19 43 17 17 34 14 12 26 0 0 0 0 0 0 0	8 8 8 16 0 0 0 0 3 3 3 3 6 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 90 90 180 37 29 66 31 31 62 6 6 12 0 0	Taxi	175 175 350 61 48 109 51 51 102 21 19 40 0 0 0 0
Residential Hotel Local Retail Destination Retail Elementary School Intermediate School	Out Total In Out	139 60 199 48 26 74 15 15 30 10 12 22 1 1 2 0 0 0	2 2 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 162 69 231 74 40 114 27 27 54 5 5 10 0 0 0 0 0 0 0 268	Taxi	303 131 434 122 66 188 42 42 84 15 17 32 2 2 4 0 0 0	77 77 154 24 19 43 17 17 34 14 12 26 0 0 0 0 0 132	8 8 8 16 0 0 0 0 3 3 3 6 1 1 2 0 0 0 0 0 0 0 0 0 0 12	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 90 90 180 37 29 66 31 31 62 6 6 6 0 0 0 0 0	Taxi	175 175 350 61 48 109 51 51 102 21 19 40 0 0 0 0 0 0
Residential Hotel Local Retail Destination Retail Elementary School Intermediate School	Out Total In Out	139 60 199 48 26 74 15 15 30 10 12 22 2 1 1 2 0 0	2 2 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 162 69 231 74 40 114 27 27 54 5 0 0 0 0 0 0 0	Taxi	303 131 434 122 66 188 42 42 84 15 17 32 2 2 4 0 0	77 77 154 24 19 43 17 17 34 14 12 26 0 0 0 0 0 0 0	8 8 8 16 0 0 0 0 3 3 3 3 6 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 90 90 180 37 29 66 31 31 62 6 6 6 0 0 0 0	Taxi	175 175 350 61 48 109 51 51 102 21 19 40 0 0 0 0

Table 17-6 Vehicle Trips Generated by Maximum Commercial Scenario – 2019

	v	CITIC	IC II	rhs G		ated by	MIUA	IIIUIII	Com	iiici ci		ciiai io	2019
				School	<u>AM</u>	Balanced				School	<u>MD</u>	Balanced	
Land Use		Auto	Truck	Bus	Taxi	Taxi	Total	Auto	Truck	Bus	Taxi	Taxi	Total
	In	20	8	0	24		52	35	6	0	41		82
Residential	Out	116	8	Ō	134		258	35	6	Ö	41		82
	Total	136	16	0	158		310	70	12	0	82		164
	In	267	12	0	76		355	34	12	0	61		107
Office	Out	11	12	0	3		26	37	12	0	66		115
•	Total	278	24	0	79		381	71	24	0	127		222
	In	5	2	0	9		16	31	3	0	55		89
Local Retail	Out	5	2	0	9		16	31	3	0	55		89
	Total	10	4	0	18		32	62	6	0	110		178
Destination	In .	0	1	0	0		1	12	1	0	5		18
Retail	Out	0	1	0	0		1	10	1	0	4		15
	Total	0	2	0	0		2	22	2	0	9		33
Elementary	In Out	15 15	0 0	2	5 0		22 17	0 0	0 0	0	0		0
School	Total	30	0	4	5		39	0	0	0	0		0
	In	0	0	0	0		0	0	0	0	0		0
Intermediate	Out	0	0	0	0		0	0	0	0	0		0
School •	Total	0	0	0	0		0	0	0	0	0		0
	In	1	Ő	Ő	0		1	0	Ö	0	Ö		0
School	Out	0	Ö	Ō	Ö		0	Ö	Ö	Ö	Ö		Ö
(Staff)	Total	1	0	0	0		1	0	0	0	0		0
	In	308	23	2	114	203	536	112	22	0	162	247	381
Total Trips	Out	147	23	2	146	203	375	113	22	0	166	247	382
-	Total	455	46	4	260	406	911	225	44	0	328	494	763
							011						
					PM		011				SAT		
				School	<u>PM</u>	Balanced				School	<u>SAT</u>	Balanced	
Land Use		Auto	Truck	Bus	<u>PM</u> Taxi	Balanced Taxi	Total	Auto	Truck	Bus	<u>SAT</u> Taxi	Balanced Taxi	Total
	In Out	112	1	Bus 0	<u>PM</u> Taxi 130	Balanced Taxi	Total 243	Auto 62	Truck 6	Bus 0	SAT Taxi 72	Balanced Taxi	Total
Land Use Residential	Out	112 48	1 1	Bus 0 0	PM Taxi 130 56	Balanced Taxi 	Total 243 105	Auto 62 62	Truck 6 6	Bus 0 0	SAT Taxi 72 72	Balanced Taxi 	Total 140 140
	Out Total	112 48 160	1 1 2	0 0 0	PM Taxi 130 56	Balanced Taxi 	Total 243 105 348	Auto 62 62 124	Truck 6 6	0 0 0	SAT Taxi 72 72 144	Balanced Taxi 	Total 140 140 280
Residential .	Out Total In	112 48 160 16	1 1 2 5	0 0 0	PM Taxi 130 56 186 5	Balanced Taxi 	Total 243 105 348 26	Auto 62 62 124 9	Truck 6 6 12	0 0 0	SAT Taxi 72 72 144 15	Balanced Taxi 	Total 140 140 280 25
	Out Total In Out	112 48 160 16 307	1 1 2 5 5	0 0 0 0 0	PM Taxi 130 56 186 5 88	Balanced Taxi 	Total 243 105 348 26 400	Auto 62 62 124 9 7	Truck 6 6 12 1 1	0 0 0 0 0	Taxi 72 72 144 15 12	Balanced Taxi 	Total 140 140 280 25 20
Residential .	Out Total In Out Total	112 48 160 16 307 323	1 1 2 5 5	Bus 0 0 0 0 0 0	PM Taxi 130 56 186 5 88 93	Balanced Taxi 	Total 243 105 348 26 400 426	Auto 62 62 124 9 7	Truck 6 6 12 1 1 2 2	0 0 0 0 0 0 0	Taxi 72 72 144 15 12 27	Balanced Taxi 	Total 140 140 280 25 20 45
Residential Office	Out Total In Out Total In	112 48 160 16 307	1 1 2 5 5	0 0 0 0 0	PM Taxi 130 56 186 5 88	Balanced Taxi 	Total 243 105 348 26 400	Auto 62 62 124 9 7 16 18	Truck 6 6 12 1 1	0 0 0 0 0	Taxi 72 72 144 15 12	Balanced Taxi 	Total 140 140 280 25 20 45 53
Residential .	Out Total In Out Total	112 48 160 16 307 323 16	1 1 2 5 5 5 10 0	Bus 0 0 0 0 0 0 0	PM Taxi 130 56 186 5 88 93 28	Balanced Taxi 	Total 243 105 348 26 400 426 44	Auto 62 62 124 9 7	Truck 6 6 12 1 1 2 3	Bus 0 0 0 0 0 0 0	Taxi 72 72 144 15 12 27 32	Balanced Taxi 	Total 140 140 280 25 20 45
Residential Office	Out Total In Out Total In Out Out	112 48 160 16 307 323 16 16	1 1 2 5 5 10 0	Bus 0 0 0 0 0 0 0	PM 130 56 186 5 88 93 28 28	Balanced Taxi 	Total 243 105 348 26 400 426 44 44	Auto 62 62 124 9 7 16 18	Truck 6 6 12 1 1 2 3 3	Bus 0 0 0 0 0 0 0	Taxi 72 72 144 15 12 27 32 32	Balanced Taxi 	Total 140 140 280 25 20 45 53 53
Residential Office Local Retail Destination	Out Total In Out Total In Out Total In Out Total	112 48 160 16 307 323 16 16	1 1 2 5 5 10 0 0	Bus 0 0 0 0 0 0 0 0	PM 130 56 186 5 88 93 28 28 28	Balanced Taxi 	Total 243 105 348 26 400 426 44 44	Auto 62 62 124 9 7 16 18 18	Truck 6 6 12 1 1 2 3 3 3 6	Bus 0 0 0 0 0 0 0 0 0	Taxi 72 72 144 15 12 27 32 32 64	Balanced Taxi 	Total 140 140 280 25 20 45 53 53
Residential Office	Out Total In Out Total In Out Total In Out Total In	112 48 160 16 307 323 16 16 32 11	1 1 2 5 5 5 10 0 0	Bus 0 0 0 0 0 0 0 0 0	PM 130 56 186 5 88 93 28 28 56 5	Balanced Taxi 	Total 243 105 348 26 400 426 44 44 88 16	Auto 62 62 124 9 7 16 18 18 36 14	Truck 6 6 12 1 1 2 3 3 6 1	Bus 0 0 0 0 0 0 0 0 0	Taxi 72 72 144 15 12 27 32 32 64 6	Balanced Taxi 	Total 140 140 280 25 20 45 53 53 106 21
Residential Office Local Retail Destination Retail	Out Total In Out	112 48 160 16 307 323 16 16 32 11 12 23 1	1 1 2 5 5 5 10 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1	Taxi 130 56 186 5 88 93 28 28 56 5 5	Balanced Taxi 	Total 243 105 348 26 400 426 44 41 88 16 17 33 2	Auto 62 62 124 9 7 16 18 18 36 14 13 27 0	Truck 6 6 12 1 1 2 3 3 6 1 1 2 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 72 72 144 15 12 27 32 32 32 64 6 6 6	Balanced Taxi 	Total 140 140 280 25 20 45 53 53 106 21 20 41 0
Residential Office Local Retail Destination Retail Elementary	Out Total In Out	112 48 160 16 307 323 16 16 32 11 12 23 1	1 1 2 5 5 10 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PM 130 56 186 5 88 93 28 28 56 5 5 10 0 0	Balanced Taxi 	Total 243 105 348 26 400 426 44 44 88 16 17 33 2	Auto 62 62 124 9 7 16 18 18 36 14 13 27 0	Truck 6 6 12 1 1 2 3 3 3 6 1 1 2 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 72 72 144 15 12 27 32 32 32 64 6 6 6	Balanced Taxi 	Total 140 140 280 25 20 45 53 53 106 21 20 41 0
Residential Office Local Retail Destination Retail	Out Total In Out	112 48 160 16 307 323 16 16 32 11 12 23 1 1	1 1 2 5 5 10 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1	PM 130 56 186 5 88 93 28 28 56 5 5 10 0 0 0 0	Balanced Taxi 	Total 243 105 348 26 400 426 44 48 88 16 17 33 2 4	Auto 62 62 124 9 7 166 18 36 14 13 27 0 0 0 0	Truck 6 6 12 1 1 1 2 3 3 3 6 1 1 1 2 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 72 72 144 15 12 27 32 32 64 6 6 12 0 0	Balanced Taxi	Total 140 140 280 25 20 45 53 106 21 20 41 0 0
Residential Office Local Retail Destination Retail Elementary School	Out Total In Out	112 48 160 16 307 323 16 16 32 11 12 23 1 1 2 0	1 1 2 5 5 10 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PM 130 56 186 5 88 28 28 56 5 5 10 0 0 0 0 0	Balanced Taxi	Total 243 105 348 26 400 426 44 44 41 33 2 2 4 0	Auto 62 62 124 9 7 16 18 18 36 14 13 27 0 0	Truck 6 6 12 1 1 1 2 3 3 3 6 1 1 1 2 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 72 72 144 15 12 27 32 64 6 6 12 0 0 0	Balanced Taxi	Total 140 140 280 25 20 45 53 106 21 20 41 0 0 0
Residential Office Local Retail Destination Retail Elementary	Out Total In Out	112 48 160 16 307 323 16 16 32 11 12 23 1 1 2 0	1 1 2 5 5 10 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0	PM 130 56 5 88 93 28 28 56 5 5 10 0 0 0 0 0 0	Balanced Taxi	Total 243 105 348 26 400 426 44 44 88 16 17 33 2 2 4 0 0	Auto 62 62 124 9 7 16 18 36 14 13 27 0 0	Truck 6 6 12 1 1 2 3 3 3 6 1 1 2 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 72 72 144 15 12 27 32 32 64 6 6 12 0 0 0 0	Balanced Taxi	Total 140 140 280 25 20 45 53 106 21 20 41 0 0 0
Residential Office Local Retail Destination Retail Elementary School	Out Total In Out	112 48 160 16 307 323 16 16 32 11 12 23 1 1 2 0 0	1 1 2 5 5 5 10 0 0 0 0 0 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0	PM 130 56 186 5 88 93 28 28 56 5 5 10 0 0 0 0 0 0 0	Balanced Taxi	Total 243 105 348 26 400 426 44 44 88 16 17 33 2 2 4 0 0	Auto 62 62 124 9 7 16 18 18 36 14 13 27 0 0 0 0	Truck 6 6 12 1 1 2 3 3 6 1 1 2 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 72 72 144 15 12 27 32 32 64 6 6 12 0 0 0 0 0	Balanced Taxi	Total 140 140 280 25 20 45 53 53 106 21 20 41 0 0 0 0
Residential Office Local Retail Destination Retail Elementary School	Out Total In Out	112 48 160 16 307 323 16 16 32 11 12 23 1 1 1 2 0 0	1 1 2 5 5 5 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 1 1 1 2 0 0 0 0 0 0 0	PM 130 56 186 5 88 93 28 28 56 5 5 10 0 0 0 0 0 0 0 0 0 0 0	Balanced Taxi	Total 243 105 348 26 400 426 44 44 88 16 17 33 2 2 4 0 0 0	Auto 62 62 124 9 7 166 188 18 366 14 13 27 0 0 0 0 0 0 0 0 0	Truck 6 6 12 1 1 2 3 3 3 6 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 72 72 144 15 12 27 32 32 64 6 6 12 0 0 0 0 0 0	Balanced Taxi	Total 140 140 280 25 20 45 53 53 106 21 20 41 0 0 0 0 0
Residential Office Local Retail Destination Retail Elementary School Intermediate School	Out Total In Out	112 48 160 16 307 323 16 16 32 11 12 23 1 1 1 2 0 0	1 1 2 5 5 5 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0	PM 130 56 186 5 88 93 28 56 5 5 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Balanced Taxi -	Total 243 105 348 26 400 426 44 44 88 16 17 33 2 2 4 0 0 0 0	Auto 62 62 124 9 7 166 18 18 18 27 0 0 0 0 0 0 0 0 0 0	Truck 6 6 12 1 1 1 2 3 3 3 6 1 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAT Taxi 72 72 144 15 12 27 32 64 6 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Balanced Taxi	Total 140 280 25 20 45 53 106 21 20 41 0 0 0 0 0 0
Residential Office Local Retail Destination Retail Elementary School Intermediate School School	Out Total In Out	112 48 160 16 307 323 16 16 32 11 12 23 1 1 2 0 0 0 0	1 1 2 5 5 5 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 1 1 2 0 0 0 0 0 0 0 0 0	PM 130 56 186 5 88 93 28 56 5 5 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Balanced Taxi	Total 243 105 348 26 400 426 44 488 16 17 33 2 4 0 0 0 0	Auto 62 62 124 9 7 166 18 36 14 13 27 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Truck 6 6 12 1 1 1 2 3 3 3 6 1 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAT Taxi 72 144 15 12 27 32 64 6 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Balanced Taxi	Total 140 280 25 20 45 53 53 106 21 20 41 0 0 0 0 0 0
Residential Office Local Retail Destination Retail Elementary School Intermediate School School (Staff)	Out Total In Out	112 48 160 16 307 323 16 16 32 11 12 23 1 1 2 0 0 0 0 0 156	1 1 2 5 5 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0	PM 130 56 186 5 88 93 28 28 56 5 5 10 0 0 0 0 0 0 0 168	Balanced Taxi	Total 243 105 348 26 400 426 44 44 44 40 0 0 0 0 0 0 424	Auto 62 62 124 9 7 16 18 18 36 14 13 27 0 0 0 0 0 103	Truck 6 6 12 1 1 1 2 3 3 3 6 1 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAT Taxi 72 144 15 12 27 32 64 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 125	Balanced Taxi	Total 140 140 280 25 20 45 53 106 21 20 41 0 0 0 0 0 0 0 299
Residential Office Local Retail Destination Retail Elementary School Intermediate School School	Out Total In Out	112 48 160 16 307 323 16 16 32 11 12 23 1 1 2 0 0 0 0	1 1 2 5 5 5 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0	PM 130 56 186 5 88 93 28 56 5 5 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Balanced Taxi	Total 243 105 348 26 400 426 44 488 16 17 33 2 4 0 0 0 0	Auto 62 62 124 9 7 166 18 36 14 13 27 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Truck 6 6 12 1 1 1 2 3 3 3 6 1 1 1 2 0 0 0 0 0 0 0 0 0 0 0 11 1	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAT Taxi 72 144 15 12 27 32 64 6 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Balanced Taxi	Total 140 280 25 20 45 53 53 106 21 20 41 0 0 0 0 0 0

				AM				MD	
Site		Auto	Truck	Balanced Taxi	Total	Auto	Truck	Balanced Taxi	Total
N.C. ale A	In	4	0	5	9	2	0	6	8
Ninth Avenue Site	Out	2	0	5	7	3	0	6	9
Sile	Total	6	0	10	16	5	0	12	17
T (1. A	In	1	0	10	11	3	0	8	11
Tenth Avenue Site	Out	4	0	10	14	3	0	8	11
Site	Total	5	0	20	25	6	0	16	22
				PM			5	SAT	
				Balanced	Total			Balanced	Total
Site		Auto	Truck	Taxi	IUlai	Auto	Truck	Taxi	iotai
N.C. ale A	In	3	0	7	10	2	0	5	7
Ninth Avenue Site	Out	6	0	7	13	2	0	5	7
Site	Total	9	0	14	23	4	0	10	14
Tenth Avenue	In	5	0	10	15	3	0	9	12
Site	Out	3	Ö	10	13	3	0	9	12

Table 17-8 Vehicle Trips Generated by Maximum Residential Scenario (Office Option) – 2017

	, ,		1		AM					`	MD_	• ′	
				School		Balanced				School		Balanced	
Land Use		Auto	Truck	Bus	Taxi	Taxi	Total	Auto	Truck	Bus	Taxi	Taxi	Total
	In .	9	4	0	10		23	15	3	0	17		35
Residential	Out	49	4	0	56		109	15	3	0	17		35
	Total	58 183	8 8	0 0	66 53		132 243	30	6 8	0 0	34 42		70 73
Office	In Out	8	8	0	52 2		18	23 25	8	0	45		73 78
Onice	Total	191	16	0	54		261	48	16	0	87		151
	In	4	2	0	7		13	23	3	0	41		67
Local Retail	Out	4	2	0	7		13	23	3	0	41		67
	Total	8	4	0	14		26	46	6	0	82		134
Destination	In	0	0	0	0		0	9	1	0	4		14
Retail	Out	0	0	0	0		0	7	1	0	3		11
rtotan	Total	0	0	0	0		0	16	2	0	7		25
Elementary	In Out	15	0	2	5		22	0	0	0	0		0
School	Out	15	0	2	0		17	0	0	0	0		0
	Total In	30 0	0 0	4 0	5 0		39 0	0 0	0 0	0 0	0		0
Intermediate	Out	0	0	0	0		0	0	0	0	0		0
School	Total	0	0	0	0		0	0	0	0	0		0
	In	1	0	0	0		1	0	Ö	0	0		0
School (Staff)	Out	Ô	Ō	Ō	Ō		0	Ō	Ö	Ö	Ö		Ö
,	Total	1	0	0	0		1	0	0	0	0		0
	In	212	14	2	74	102	330	70	15	0	104	158	243
Total Trips	Out	76	14	2	65	102	194	70	15	0	106	158	243
	Total	288	28	4	139	204	524	140	30	0	210	316	486
					<u>PM</u>	Ralancod					<u>SAT</u>	Ralancod	
Land Use		Auto	Truck	School		Balanced Taxi	Total	Auto	Truck	School		Balanced Taxi	Total
Land Use	In	Auto 47	Truck 1		— Taxi	Balanced Taxi 	Total 103	Auto 26	Truck 3		Taxi 30	Balanced Taxi 	Total 59
Land Use Residential	In Out	Auto 47 20		School Bus		Taxi	Total 103 44	Auto 26 26	Truck 3 3	School Bus	Taxi	Taxi	Total 59 59
		47	1	School Bus 0	— Тахі 55	Taxi 	103	26	3	School Bus 0	Taxi 30	Taxi 	59
	Out Total In	47 20 67 11	1 1 2 4	School Bus 0 0 0	Taxi 55 23 78 3	Taxi 	103 44 147 18	26 26 52 6	3 3	School Bus 0 0 0	Taxi 30 30 60 11	Taxi 	59 59 118 18
	Out Total In Out	47 20 67 11 210	1 1 2 4 4	School Bus 0 0 0 0	Taxi 55 23 78 3 60	Taxi 	103 44 147 18 274	26 26 52 6 5	3 3 6 1	School Bus	Taxi 30 30 60 11	Taxi 	59 59 118 18 14
Residential	Out Total In Out Total	47 20 67 11 210 221	1 1 2 4 4 8	School Bus 0 0 0 0 0 0 0 0 0 0	Taxi 55 23 78 3 60	Taxi 	103 44 147 18 274 292	26 26 52 6 5	3 3 6 1 1	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 30 30 60 11 8	Taxi 	59 59 118 18 14 32
Residential Office	Out Total In Out Total In	47 20 67 11 210 221 12	1 1 2 4 4 8 0	School Bus 0 0 0 0 0 0 0	Taxi 55 23 78 3 60 63 21	Taxi	103 44 147 18 274 292 33	26 26 52 6 5 11 13	3 3 6 1 1 2 3	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 30 30 60 11 8 19 24	Taxi	59 59 118 18 14 32 40
Residential	Out Total In Out Total In Out Out	47 20 67 11 210 221 12	1 1 2 4 4 8 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 555 23 78 3 60 63 21 21	Taxi	103 44 147 18 274 292 33 33	26 26 52 6 5 11 13	3 3 6 1 1 2 3 3	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 30 30 60 11 8 19 24 24	Taxi	59 59 118 18 14 32 40 40
Residential Office	Out Total In Out Total In Out Total In Out Total	47 20 67 11 210 221 12 12 24	1 1 2 4 4 8 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 55 23 78 3 60 63 21 21	Taxi	103 44 147 18 274 292 33 33 66	26 26 52 6 5 11 13 13	3 3 6 1 1 2 3 3	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 30 30 60 11 8 19 24 24 48	Taxi	59 59 118 18 14 32 40 40
Residential Office Local Retail Destination	Out Total In Out Total In Out Total In Out Total In	47 20 67 11 210 221 12 12 24 8	1 1 2 4 4 8 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 55 23 78 3 60 63 21 21 42 4	Taxi	103 44 147 18 274 292 33 33 66 12	26 26 52 6 5 11 13 13 26	3 3 6 1 1 2 3 3 6 1	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 30 30 60 11 8 19 24 24 48 5	Taxi	59 59 118 18 14 32 40 40 80 16
Residential Office Local Retail	Out Total In Out Total In Out Total In Out Total In Out	47 20 67 11 210 221 12 12 24 8 9	1 1 2 4 4 8 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 55 23 78 3 60 63 21 21 42 4	Taxi	103 44 147 18 274 292 33 33 66 12	26 26 52 6 5 11 13 13 26 10	3 3 6 1 1 2 3 3 6 1 1	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 30 30 60 11 8 19 24 24 48 5 4	Taxi	59 59 118 18 14 32 40 40 80 16 15
Residential Office Local Retail Destination Retail	Out Total In Out Total In Out Total In Out Total In	47 20 67 11 210 221 12 12 24 8	1 1 2 4 4 8 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 55 23 78 3 60 63 21 21 42 4	Taxi	103 44 147 18 274 292 33 33 66 12	26 26 52 6 5 11 13 13 26	3 3 6 1 1 2 3 3 6 1	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 30 30 60 11 8 19 24 24 48 5	Taxi	59 59 118 18 14 32 40 40 80 16
Residential Office Local Retail Destination Retail Elementary	Out Total In Out Total	47 20 67 11 210 221 12 12 24 8 9	1 1 2 4 4 8 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 55 23 78 3 60 63 21 21 42 4 4	Taxi	103 44 147 18 274 292 33 33 66 12 13	26 26 52 6 5 11 13 13 26 10 10	3 3 6 1 1 2 3 3 6 1 1 1	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 30 30 60 11 8 19 24 24 48 5 4	Taxi	59 59 118 18 14 32 40 40 80 16 15
Residential Office Local Retail Destination Retail	Out Total In Out	47 20 67 11 210 221 12 12 24 8 9	1 1 2 4 4 8 0 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1	Taxi 55 23 78 3 60 63 21 21 42 4 4 4 8 0	Taxi	103 44 147 18 274 292 33 33 66 12 13 25 2	26 26 52 6 5 11 13 13 26 10 10	3 3 6 1 1 2 3 3 6 1 1 1	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 30 30 60 11 8 19 24 24 48 5 4	Taxi	59 59 118 18 14 32 40 40 80 16 15 31 0
Residential Office Local Retail Destination Retail Elementary School	Out Total In Out	47 20 67 11 210 221 12 12 24 8 9 17 1 1 1	1 1 2 4 4 8 0 0 0 0 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 55 23 78 3 60 63 21 21 42 4 4 8 0 0 0 0 0 0	Taxi	103 44 147 18 274 292 33 33 66 12 13 25 2 2	26 26 52 6 5 11 13 13 26 10 20 0 0	3 3 6 1 1 2 3 3 6 1 1 1 2 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 30 30 60 11 8 19 24 24 48 5 4 9 0 0	Taxi	59 59 118 18 14 32 40 40 80 16 15 31 0 0
Residential Office Local Retail Destination Retail Elementary School Intermediate	Out Total In Out	47 20 67 11 210 221 12 12 24 8 9 17 1 1 1 2 0	1 1 2 4 4 8 0 0 0 0 0 0 0 0 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 55 23 78 3 60 63 21 21 42 4 4 8 0 0 0 0 0 0 0	Taxi	103 44 147 18 274 292 33 33 66 12 13 25 2 2 4 0	26 26 52 6 5 11 13 13 26 10 10 0 0 0	3 3 6 1 1 2 3 3 6 1 1 1 2 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 30 30 60 11 8 19 24 24 48 5 4 9 0 0 0	Taxi	59 59 118 18 14 32 40 40 80 16 15 31 0 0
Residential Office Local Retail Destination Retail Elementary School	Out Total In Out	47 20 67 11 210 221 12 12 24 8 9 17 1 1 2 0	1 1 2 4 4 8 0 0 0 0 0 0 0 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 55 23 78 3 60 63 21 21 42 4 4 8 0 0 0 0 0 0 0 0 0	Taxi	103 44 147 18 274 292 33 33 66 12 13 25 2 2 4 0	26 26 52 6 5 11 13 13 26 10 10 0 0 0	3 3 6 1 1 2 3 3 6 1 1 1 2 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 30 30 60 11 8 19 24 24 48 5 4 9 0 0 0 0	Taxi	59 59 118 18 14 32 40 40 80 16 15 31 0 0
Residential Office Local Retail Destination Retail Elementary School Intermediate School	Out Total In Out	47 20 67 11 210 221 12 12 24 8 9 17 1 1 2 0 0	1 1 2 4 4 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 55 23 78 3 60 63 21 21 42 4 4 8 0 0 0 0 0 0	Taxi	103 44 147 18 274 292 33 33 36 66 12 13 25 2 2 4 0 0	26 26 52 6 5 11 13 13 26 10 10 20 0 0 0 0	3 3 6 1 1 2 3 3 3 6 1 1 1 2 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 30 30 60 11 8 19 24 24 48 5 4 9 0 0 0 0 0	Taxi	59 59 118 18 14 32 40 40 80 16 15 31 0 0
Residential Office Local Retail Destination Retail Elementary School Intermediate	Out Total In Out	47 20 67 11 210 221 12 12 24 8 9 17 1 1 2 0 0	1 1 2 4 4 4 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 2 0 0 0 0	Taxi 55 23 78 3 60 63 21 42 4 4 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi	103 44 147 18 274 292 33 33 33 66 12 13 25 2 2 4 0 0 0	26 26 52 6 5 11 13 13 26 10 10 20 0 0 0 0	3 3 6 1 1 2 3 3 6 1 1 1 2 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 30 60 111 8 19 24 48 5 4 9 0 0 0 0 0	Taxi	59 59 118 18 14 32 40 40 80 16 15 31 0 0
Residential Office Local Retail Destination Retail Elementary School Intermediate School	Out Total In Out	47 20 67 11 210 221 12 12 24 8 9 17 1 1 2 0 0	1 1 2 4 4 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	School Bus	Taxi 55 23 78 3 60 63 21 21 42 4 4 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi	103 44 147 18 274 292 33 33 33 66 12 13 25 2 2 4 0 0 0	26 26 52 6 5 11 13 13 26 10 10 20 0 0 0 0	3 3 6 1 1 2 3 3 3 6 1 1 2 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 30 30 60 11 8 19 24 24 48 5 4 9 0 0 0 0 0	Taxi	59 59 118 18 14 32 40 40 80 16 15 31 0 0 0 0
Residential Office Local Retail Destination Retail Elementary School Intermediate School School (Staff)	Out Total In Out	47 20 67 11 210 221 12 12 24 8 9 17 1 1 2 0 0	1 1 2 4 4 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 55 23 78 3 60 63 21 21 42 4 4 4 8 0 0 0 0 0 0	Taxi	103 44 147 18 274 292 33 33 66 12 13 25 2 2 4 0 0 0	26 26 52 6 5 11 13 13 26 10 0 0 0 0 0 0 0 0	3 3 6 1 1 2 3 3 3 6 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 30 30 60 11 8 19 24 24 48 5 4 9 0 0 0 0 0 0	Taxi	59 59 118 18 14 32 40 40 80 16 15 31 0 0 0 0 0
Residential Office Local Retail Destination Retail Elementary School Intermediate School	Out Total In Out	47 20 67 11 210 221 12 12 24 8 9 17 1 1 2 0 0	1 1 2 4 4 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	School Bus	Taxi 55 23 78 3 60 63 21 21 42 4 4 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi	103 44 147 18 274 292 33 33 33 66 12 13 25 2 2 4 0 0 0	26 26 52 6 5 11 13 13 26 10 10 20 0 0 0 0	3 3 6 1 1 2 3 3 3 6 1 1 2 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 30 30 60 11 8 19 24 24 48 5 4 9 0 0 0 0 0	Taxi	59 59 118 18 14 32 40 40 80 16 15 31 0 0 0 0

Table 17-9
Vehicle Trips Generated by Maximum Residential Scenario (Hotel Option) – 2017

	, 0111		- -		AM						MD	opuon)	
Land Use		Auto	Truck	School Bus	Taxi	Balanced Taxi	Total	Auto	Truck	School Bus	Taxi	Balanced Taxi	Total
Luna OSC	In	9	4	0	10		23	15	3	0	17		35
Residential	Out	49	4	0	56		109	15	3	0	17		35
1100.00111101	Total	58	8	0	66		132	30	6	0	34		70
	In	17	4	Ö	26		47	40	3	0	58		101
Hotel	Out	26	4	0	41		71	34	3	0	49		86
•	Total	43	8	0	67		118	74	6	0	107		187
	In	4	2	0	6		12	22	2	0	38		62
Local Retail	Out	4	2	0	6		12	22	2	0	38		62
	Total	8	4	0	12		24	44	4	0	76		124
Destination	In .	0	0	0	0		0	9	1	0	4		14
Retail	Out	0	0	0	0		0	7	1	0	3		11
	Total	0	0	0	0		0	16	2	0 0	7		25
Elementary	In Out	15 15	0	2 2	5 0		22 17	0 0	0	0	0 0		0 0
School	Total	30	0	4	5		39	0	0	0	0		0
	In	0	0	0	0		0	0	0	0	0		0
Intermediate	Out	0	0	0	0		0	0	0	0	0		0
School	Total	0	0	0	0		0	0	0	0	0		0
	In	1	0	Ö	Ö		1	0	0	0	Ö		0
School	Out	0	0	0	0		0	0	0	0	0		0
(Staff)	Total	1	0	0	0		1	0	0	0	0		0
	In	46	10	2	47	127	185	86	9	0	117	166	261
Total Trips	Out	94	10	2	103	127	233	78	9	0	107	166	253
	Total	140	20	4	150	254	418	164	18	0	224	332	514
	. 0	1 10		-		201	+10	104	10	U		332	017
	. 0.0.	110	20	<u>P</u>			410	104	10		SAT		014
Land Hea	· otal			P School	<u>M</u>	Balanced				School	<u>SAT</u>	Balanced	
Land Use		Auto	Truck	School Bus	<u>M</u> Taxi		Total	Auto	Truck	School Bus	<u>SAT</u> Taxi	Balanced Taxi	Total
	ln	Auto 47	Truck 1	P School	<u>M</u> Taxi 55	Balanced Taxi	Total 103	Auto 26	Truck 3	School	SAT Taxi 30	Balanced	Total 59
Land Use Residential	In Out	Auto 47 20	Truck 1 1	School Bus 0 0	<u>M</u> Taxi 55 23	Balanced Taxi 	Total 103 44	Auto 26 26	Truck 3 3	School Bus 0 0	SAT Taxi 30 30	Balanced Taxi 	Total 59 59
	ln	Auto 47 20 67	Truck 1	School Bus 0	<u>M</u> Taxi 55	Balanced Taxi 	Total 103	Auto 26	Truck 3	School Bus 0	SAT Taxi 30	Balanced Taxi 	Total 59
	In Out Total	Auto 47 20	Truck 1 1 2	School Bus 0 0	<u>M</u> Taxi 55 23 78	Balanced Taxi 	Total 103 44 147	Auto 26 26 52	Truck 3 3	School Bus 0 0	SAT Taxi 30 30 60	Balanced Taxi 	Total 59 59 118
Residential	In Out Total In	Auto 47 20 67 48	Truck 1 1 2 0	School Bus 0 0	M Taxi 55 23 78 74	Balanced Taxi 	Total 103 44 147 122	Auto 26 26 52 24	Truck 3 3 6 0	School Bus 0 0	Taxi 30 30 60 37	Balanced Taxi 	Total 59 59 118 61
Residential	In Out Total In Out	Auto 47 20 67 48 26	Truck 1 1 2 0 0	P School Bus 0 0 0 0 0 0 0 0 0	Taxi 55 23 78 74 40	Balanced Taxi 	Total 103 44 147 122 66	Auto 26 26 52 24 19	Truck 3 3 6 0 0 2	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAT Taxi 30 30 60 37 29 66 22	Balanced Taxi 	Total 59 59 118 61 48 109 37
Residential	In Out Total In Out Total	Auto 47 20 67 48 26 74	Truck 1 1 2 0 0	School Bus 0 0 0 0 0 0 0 0 0 0	Taxi 55 23 78 74 40 114	Balanced Taxi 	Total 103 44 147 122 66	Auto 26 26 52 24 19	Truck 3 3 6 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 30 30 60 37 29 66	Balanced Taxi 	Total 59 59 118 61 48 109 37 37
Residential Hotel	In Out Total In Out Total In Out	Auto 47 20 67 48 26 74 11 11	Truck 1 1 2 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Taxi 55 23 78 74 40 114 19 19 38	Balanced Taxi 	Total 103 44 147 122 66 188 30 30 60	Auto 26 26 52 24 19 43 13 13	Truck 3 3 6 0 0 2 2 4	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAT Taxi 30 30 60 37 29 66 22 22 44	Balanced Taxi 	Total 59 59 118 61 48 109 37 37
Residential Hotel Local Retail	In Out Total In Out Total In Out Total In Out Total In Out	Auto 47 20 67 48 26 74 11 11	Truck 1 1 2 0 0 0 0 0 0 0	School Bus	Taxi 55 23 78 74 40 114 19 19 38 3	Balanced Taxi 	Total 103 44 147 122 66 188 30 30 60 11	Auto 26 26 52 24 19 43 13 13 26	Truck 3 3 6 0 0 2 2 4 1	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAT Taxi 30 30 60 37 29 66 22 22 44 4	Balanced Taxi 	Total 59 59 118 61 48 109 37 74 15
Residential Hotel Local Retail Destination	In Out Total In Out Total In Out Total In Out Total In Out	Auto 47 20 67 48 26 74 11 11 22 8 8	Truck 1 1 2 0 0 0 0 0 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M 55 23 78 74 40 114 19 19 38 3 4	Balanced Taxi	Total 103 44 147 122 66 188 30 30 60 11 12	Auto 26 26 52 24 19 43 13 13 26 10 9	Truck 3 3 6 0 0 2 2 4 1 1	School Bus	SAT Taxi 30 30 60 37 29 66 22 22 44 4 4	Balanced Taxi 	Total 59 59 118 61 48 109 37 37 74 15
Residential Hotel Local Retail	In Out Total In Out	Auto 47 20 67 48 26 74 11 11 22 8 8 16	Truck 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M Taxi 55 23 78 74 40 114 19 19 38 3 4 7	Balanced Taxi 	Total 103 44 147 122 66 188 30 30 60 11 12 23	Auto 26 26 52 24 19 43 13 13 26 10 9	Truck 3 3 6 0 0 2 2 4 1 1	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAT Taxi 30 30 60 37 29 66 22 22 44 4 4 8	Balanced Taxi	Total 59 59 118 61 48 109 37 37 74 15 14 29
Residential Hotel Local Retail Destination	In Out Total In In Out	Auto 47 20 67 48 26 74 11 11 22 8 8 16 1	Truck 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M Taxi 55 23 78 74 40 114 19 19 38 3 4 7 0	Balanced Taxi	Total 103 44 147 122 66 188 30 30 60 11 12 23 2	Auto 26 26 52 24 19 43 13 13 26 10 9	Truck 3 3 6 0 0 2 2 4 1 1 2 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAT Taxi 30 30 60 37 29 66 22 22 44 4 4 8 0	Balanced Taxi	Total 59 59 118 61 48 109 37 37 74 15 14 29 0
Residential Hotel Local Retail Destination Retail	In Out Total In Out	Auto 47 20 67 48 26 74 11 11 22 8 8 16 1	Truck 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PSchool Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M	Balanced Taxi	Total 103 44 147 122 66 188 30 30 60 11 12 23 2	Auto 26 26 52 24 19 43 13 13 26 10 9 19 0	Truck 3 3 6 0 0 2 2 4 1 1 2 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAT Taxi 30 30 60 37 29 66 22 22 44 4 4 0 0	Balanced Taxi	Total 59 59 118 61 48 109 37 37 74 15 14 29 0
Residential Hotel Local Retail Destination Retail Elementary	In Out Total In Out	Auto 47 20 67 48 26 74 11 11 22 8 8 16 1 1	Truck 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PSchool Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M	Balanced Taxi	Total 103 44 147 122 66 188 30 60 11 12 23 2 4	Auto 26 26 52 24 19 43 13 13 26 10 9	Truck 3 3 6 0 0 2 2 4 1 1 2 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAT Taxi 30 30 60 37 29 66 22 24 44 4 0 0	Balanced Taxi	Total 59 59 118 61 48 109 37 37 74 15 14 29 0 0
Residential Hotel Local Retail Destination Retail Elementary School Intermediate	In Out Total In In Out	Auto 47 20 67 48 26 74 11 22 8 8 16 1 1 2 0	Truck 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M	Balanced Taxi	Total 103 44 147 122 66 188 30 30 60 11 12 23 2 4 0	Auto 26 26 52 24 19 43 13 13 26 10 9 19 0 0	Truck 3 3 6 0 0 2 2 4 1 1 2 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAT Taxi 30 30 60 37 29 66 22 22 44 4 4 0 0 0	Balanced Taxi	Total 59 59 118 61 48 109 37 74 15 14 29 0 0 0
Residential Hotel Local Retail Destination Retail Elementary School	In Out Total In Out	Auto 47 20 67 48 26 74 11 11 22 8 8 16 1 1 2 0 0	Truck 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M Taxi 55 23 78 74 40 114 19 38 3 4 7 0 0 0 0 0 0	Balanced Taxi	Total 103 44 147 122 66 188 30 30 60 11 12 23 2 4 0 0	Auto 26 26 52 24 19 43 13 13 26 10 9 19 0 0 0	Truck 3 3 6 0 0 2 2 4 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAT Taxi 30 30 60 37 29 66 22 22 44 4 4 0 0 0 0	Balanced Taxi	Total 59 59 118 61 48 109 37 74 15 14 29 0 0 0 0
Residential Hotel Local Retail Destination Retail Elementary School Intermediate School	In Out Total In Out	Auto 47 20 67 48 26 74 11 11 22 8 8 16 1 1 0 0	Truck 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M Taxi 55 23 78 74 40 114 19 19 38 3 4 7 0 0 0 0 0 0 0 0	Balanced Taxi	Total 103 44 147 122 66 188 30 30 60 11 12 23 2 4 0 0	Auto 26 26 26 52 24 19 43 13 13 26 10 9 19 0 0	Truck 3 3 6 0 0 2 2 4 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAT Taxi 30 60 37 29 66 22 22 44 4 4 0 0 0 0 0	Balanced Taxi	Total 59 59 118 61 48 109 37 74 15 14 29 0 0 0 0 0
Residential Hotel Local Retail Destination Retail Elementary School Intermediate School School	In Out Total In Out	Auto 47 20 67 48 26 74 11 11 22 8 8 16 1 1 2 0 0	Truck 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M Taxi 55 23 78 74 40 114 19 38 3 4 7 0 0 0 0 0 0	Balanced Taxi	Total 103 44 147 122 66 188 30 30 60 11 12 23 2 4 0 0	Auto 26 26 52 24 19 43 13 13 26 10 9 19 0 0 0	Truck 3 3 6 0 0 2 2 4 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAT Taxi 30 30 60 37 29 66 22 22 44 4 4 0 0 0 0	Balanced Taxi	Total 59 59 118 61 48 109 37 74 15 14 29 0 0 0 0
Residential Hotel Local Retail Destination Retail Elementary School Intermediate School	In Out Total In Out	Auto 47 20 67 48 26 74 11 11 22 8 8 16 1 1 0 0 0	Truck 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PSchool Bus 0 0 0 0 0 0 0 0 0 0 0 1 1 2 0 0 0 0 0 0	M Taxi 555 23 78 74 40 114 119 38 3 4 7 7 0 0 0 0 0 0 0 0 0 0 0 0	Balanced Taxi	Total 103 44 147 122 66 188 30 30 60 11 12 23 2 4 0 0 0	Auto 26 26 52 24 19 43 13 13 26 10 9 19 0 0 0 0 0	Truck 3 3 6 0 0 2 2 4 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAT Taxi 30 30 60 37 29 66 22 22 44 4 4 0 0 0 0 0 0	Balanced Taxi	Total 59 59 118 61 48 109 37 37 74 15 14 29 0 0 0 0 0 0
Residential Hotel Local Retail Destination Retail Elementary School Intermediate School School	In Out Total In Out	Auto 47 20 67 48 26 74 11 11 22 8 8 16 1 1 2 0 0 0 0	Truck 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PSchool Bus 0 0 0 0 0 0 0 0 0 0 1 1 2 0 0 0 0 0 0 0	M	Balanced Taxi	Total 103 44 147 122 66 188 30 30 60 11 12 23 2 2 4 0 0 0 0	Auto 26 26 52 24 19 43 13 13 26 10 9 19 0 0 0 0 0 0	Truck 3 3 6 0 0 2 2 4 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAT Taxi 30 30 60 37 29 66 22 22 44 4 0 0 0 0 0 0 0	Balanced Taxi	Total 59 59 118 61 48 109 37 37 74 15 14 29 0 0 0 0 0 0 0
Residential Hotel Local Retail Destination Retail Elementary School Intermediate School School	In Out Total In Out	Auto 47 20 67 48 26 74 11 11 22 8 8 16 1 1 2 0 0 0 0 0	Truck 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PSchool Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M	Balanced Taxi	Total 103 44 147 122 66 188 30 60 11 12 23 2 4 0 0 0 0 0	Auto 26 26 52 24 19 43 13 13 26 10 9 0 0 0 0 0 0	Truck 3 6 0 0 2 2 4 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	School Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SAT Taxi 30 30 60 37 29 66 22 22 44 4 0 0 0 0 0 0	Balanced Taxi	Total 59 59 118 61 48 109 37 37 74 15 14 29 0 0 0 0 0 0 0 0

Table 17-10 Vehicle Trips Generated by Maximum Commercial Scenario – 2017

						ps Genera						occiiai io	
				School	<u>AM</u>	Balanced				School	<u>MD</u>	Balanced	
Land Use		Auto	Truck	Bus	Taxi	Taxi	Total	Auto	Truck	Bus	Taxi	Taxi	Total
Lana Goo	In	8	3	0	10		21	14	2	0	17		33
Residential	Out	47	3	Ö	55		105	14	2	Ö	17		33
r toordor than	Total	55	6	0	65		126	28	4	0	34		66
	In	267	12	Ö	76		355	34	12	Ö	61		107
Office	Out	11	12	0	3		26	37	12	0	66		115
	Total	278	24	0	79		381	71	24	0	127		222
	In	4	2	0	7		13	23	3	0	41		67
Local Retail	Out	4	2	0	7		13	23	3	0	41		67
!	Total	8	4	0	14		26	46	6	0	82		134
Destination	In	0	0	0	0		0	9	1	0	4		14
Destination Retail	Out	0	0	0	0		0	7	1	0	3		11
Relaii	Total	0	0	0	0		0	16	2	0	7		25
Elementary	In	15	0	2	5		22	0	0	0	0		0
School	Out	15	0	2	0		17	0	0	0	0		0
School	Total	30	0	4	5		39	0	0	0	0		0
Intermediate	In	0	0	0	0		0	0	0	0	0		0
School	Out	0	0	0	0		0	0	0	0	0		0
School	Total	0	0	0	0		0	0	0	0	0		0
	In	1	0	0	0		1	0	0	0	0		0
School (Staff)	Out	0	0	0	0		0	0	0	0	0		0
	Total	1	0	0	0		1	0	0	0	0		0
	In	295	17	2	98	114	428	80	18	0	123	189	287
Total Trips	Out	77	17	2	65	114	210	81	18	0	127	189	288
	Total	372	34	4	163	228	638	161	36	0	250	378	575
					<u>PM</u>						SAT		
				0-11		Delevered				0-11		Dalamaad	
Land Hea		Auto	Truck	School	Tavi	Balanced	Total	Auto	Truck	School	Tavi	Balanced	Total
Land Use	In	Auto	Truck	Bus	Taxi	Taxi	Total	Auto	Truck	Bus	Taxi	Taxi	Total
	In Out	46	1	Bus 0	53		100	25	3	Bus 0	29	Taxi 	57
Land Use Residential	Out	46 20	1 1	Bus 0 0	53 23	Taxi 	100 44	25 25	3 3	Bus 0 0	29 29	Taxi 	57 57
	Out Total	46 20 66	1 1 2	8us 0 0	53 23 76	Taxi 	100 44 144	25 25 50	3 3 6	0 0 0	29 29 58	Taxi 	57 57 114
Residential	Out Total In	46 20 66 16	1 1 2 5	Bus 0 0 0	53 23 76 5	Taxi 	100 44 144 26	25 25 50 9	3 3 6 1	8us 0 0 0	29 29 58 15	Taxi 	57 57 114 25
	Out Total In Out	46 20 66 16 307	1 1 2 5 5	8us 0 0 0 0 0	53 23 76 5 88	Taxi 	100 44 144 26 400	25 25 50 9 7	3 3 6 1	0 0 0 0 0 0	29 29 58 15 12	Taxi 	57 57 114 25 20
Residential	Out Total In Out Total	46 20 66 16 307 323	1 1 2 5 5 10	Bus 0 0 0 0 0 0	53 23 76 5 88 93	Taxi 	100 44 144 26 400 426	25 25 50 9 7 16	3 3 6 1 1	0 0 0 0 0 0 0	29 29 58 15 12 27	Taxi 	57 57 114 25 20 45
Residential Office	Out Total In Out Total In	46 20 66 16 307 323 12	1 1 2 5 5	8us 0 0 0 0 0	53 23 76 5 88 93 21	Taxi 	100 44 144 26 400 426 33	25 25 50 9 7 16 13	3 3 6 1 1 2 3	0 0 0 0 0 0	29 29 58 15 12 27 24	Taxi	57 57 114 25 20 45 40
Residential	Out Total In Out Total In Out Out	46 20 66 16 307 323 12 12	1 1 2 5 5 5 10 0	Bus 0 0 0 0 0 0 0	53 23 76 5 88 93 21 21	Taxi	100 44 144 26 400 426 33 33	25 25 50 9 7 16 13 13	3 3 6 1 1 2 3 3	Bus 0 0 0 0 0 0 0	29 29 58 15 12 27 24 24	Taxi	57 57 114 25 20 45 40 40
Residential Office Local Retail	Out Total In Out Total In Out Total In Out Total	46 20 66 16 307 323 12 12 24	1 1 2 5 5 10 0	0 0 0 0 0 0 0	53 23 76 5 88 93 21 21	Taxi	100 44 144 26 400 426 33 33 66	25 25 50 9 7 16 13 13	3 3 6 1 1 2 3	Bus 0 0 0 0 0 0 0	29 29 58 15 12 27 24 24 48	Taxi	57 57 114 25 20 45 40 40
Residential Office Local Retail Destination	Out Total In Out Total In Out Total In Out	46 20 66 16 307 323 12 12 24 8	1 1 2 5 5 5 10 0 0 0	Bus 0 0 0 0 0 0 0 0 0	53 23 76 5 88 93 21 21	Taxi	100 44 144 26 400 426 33 33 66 12	25 25 50 9 7 16 13 13 26 10	3 3 6 1 1 2 3 3 6 1	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	29 29 58 15 12 27 24 24	Taxi	57 57 114 25 20 45 40 40 80 16
Residential Office Local Retail	Out Total In Out Total In Out Total In Out Total In Out	46 20 66 16 307 323 12 12 24 8 9	1 1 2 5 5 5 10 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0	53 23 76 5 88 93 21 21 42 4	Taxi	100 44 144 26 400 426 33 33 66 12 13	25 25 50 9 7 16 13 13 26 10	3 3 6 1 1 2 3 3 6 1 1	Bus 0 0 0 0 0 0 0 0 0 0 0	29 29 58 15 12 27 24 24 48 5	Taxi	57 57 114 25 20 45 40 40 80 16 15
Residential Office Local Retail Destination Retail	Out Total In Out Total In Out Total In Out Total In Total In Out Total	46 20 66 16 307 323 12 12 24 8 9	1 1 2 5 5 10 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0	53 23 76 5 88 93 21 21 42 4 4	Taxi	100 44 144 26 400 426 33 33 66 12 13	25 25 50 9 7 16 13 13 26 10 10	3 3 6 1 1 2 3 3 6 1 1 1	Bus 0 0 0 0 0 0 0 0 0 0 0	29 29 58 15 12 27 24 24 48 5	Taxi	57 57 114 25 20 45 40 40 80 16 15
Residential Office Local Retail Destination Retail Elementary	Out Total In Out	46 20 66 16 307 323 12 12 24 8 9	1 1 2 5 5 5 10 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0	53 23 76 5 88 93 21 21 42 4 4 8 0	Taxi	100 44 144 26 400 426 33 33 66 12 13 25 2	25 25 50 9 7 16 13 13 26 10 10	3 3 6 1 1 2 3 3 6 1 1 1	Bus 0 0 0 0 0 0 0 0 0 0 0	29 29 58 15 12 27 24 24 48 5 4	Taxi	57 57 114 25 20 45 40 40 80 16 15 31
Residential Office Local Retail Destination Retail	Out Total In Out	46 20 66 16 307 323 12 12 24 8 9 17 1	1 1 2 5 5 5 10 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0	53 23 76 5 88 93 21 21 42 4 4 4 8 0	Taxi	100 44 144 26 400 426 33 33 66 12 13 25 2	25 25 50 9 7 16 13 13 26 10 10 20 0	3 3 6 1 1 2 3 3 6 1 1 1 2 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0	29 29 58 15 12 27 24 24 48 5 4 9 0	Taxi	57 57 114 25 20 45 40 40 80 16 15 31 0
Residential Office Local Retail Destination Retail Elementary School	Out Total In Out	46 20 66 16 307 323 12 12 24 8 9	1 1 2 5 5 5 10 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0	53 23 76 5 88 93 21 21 42 4 4 8 0	Taxi	100 44 144 26 400 426 33 33 66 12 13 25 2	25 25 50 9 7 16 13 13 26 10 10	3 3 6 1 1 2 3 3 6 1 1 1	Bus 0 0 0 0 0 0 0 0 0 0 0	29 29 58 15 12 27 24 24 48 5 4	Taxi	57 57 114 25 20 45 40 40 80 16 15 31
Residential Office Local Retail Destination Retail Elementary School Intermediate	Out Total In Out Total	46 20 66 16 307 323 12 12 24 8 9 17 1 1	1 1 2 5 5 5 10 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0	53 23 76 5 88 93 21 21 42 4 4 4 0 0	Taxi	100 44 144 26 400 426 33 33 66 12 13 25 2	25 25 50 9 7 16 13 13 26 10 10 20 0 0	3 3 6 1 1 2 3 3 3 6 1 1 1 2 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	29 29 58 15 12 27 24 24 48 5 4 9 0 0	Taxi	57 57 114 25 20 45 40 40 80 16 15 31 0
Residential Office Local Retail Destination Retail Elementary School	Out Total In Out	46 20 66 16 307 323 12 12 24 8 9 17 1 1 1	1 1 2 5 5 5 10 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0	53 23 76 5 88 93 21 21 42 4 4 8 0 0	Taxi	100 44 144 26 400 426 33 33 66 12 13 25 2 2	25 25 50 9 7 16 13 13 26 10 10 20 0 0	3 3 6 1 1 2 3 3 6 1 1 1 2 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	29 29 58 15 12 27 24 24 48 5 4 9 0 0	Taxi	57 57 114 25 20 45 40 40 80 16 15 31 0 0
Residential Office Local Retail Destination Retail Elementary School Intermediate	Out Total In	46 20 66 16 307 323 12 12 24 8 9 17 1 1	1 1 2 5 5 10 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0	53 23 76 5 88 93 21 21 42 4 4 8 0 0 0	Taxi	100 44 144 26 400 426 33 33 66 12 13 25 2 2 4 0	25 25 50 9 7 16 13 13 26 10 10 20 0 0	3 3 6 1 1 2 3 3 6 1 1 1 2 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	29 29 58 15 12 27 24 24 48 5 4 9 0 0	Taxi	57 57 114 25 20 45 40 40 80 16 15 31 0 0
Residential Office Local Retail Destination Retail Elementary School Intermediate School	Out Total In Out	46 20 66 16 307 323 12 12 24 8 9 17 1 1 2 0 0	1 1 2 5 5 5 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0	53 23 76 5 88 93 21 21 42 4 4 8 0 0	Taxi	100 44 144 26 400 426 33 33 66 12 13 25 2 2 4 0 0	25 25 50 9 7 16 13 13 26 10 10 0 0 0	3 3 6 1 1 2 3 3 6 1 1 1 2 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	29 29 58 15 12 27 24 24 48 5 4 9 0 0 0	Taxi	57 57 114 25 20 45 40 40 80 16 15 31 0 0
Residential Office Local Retail Destination Retail Elementary School Intermediate	Out Total In Out	46 20 66 16 307 323 12 12 24 8 9 17 1 1 2 0 0	1 1 2 5 5 5 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0	53 23 76 5 88 93 21 21 42 4 4 4 8 0 0 0	Taxi	100 44 144 26 400 426 33 33 66 12 13 25 2 2 4 0 0	25 25 50 9 7 16 13 13 26 10 0 0 0 0 0 0	3 3 6 1 1 2 3 3 6 1 1 1 2 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0	29 29 58 15 12 27 24 24 48 5 4 9 0 0 0 0	Taxi	57 57 114 25 20 45 40 40 80 16 15 31 0 0
Residential Office Local Retail Destination Retail Elementary School Intermediate School	Out Total In	46 20 66 16 307 323 12 12 24 8 9 17 1 1 2 0 0	1 1 2 5 5 5 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0	53 23 76 5 88 93 21 21 42 4 4 8 0 0	Taxi	100 44 144 26 400 426 33 33 66 12 13 25 2 2 4 0 0	25 25 50 9 7 16 13 13 26 10 10 20 0 0 0	3 3 6 1 1 2 3 3 3 6 1 1 1 2 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	29 29 58 15 12 27 24 24 48 5 4 9 0 0 0	Taxi	57 57 114 25 20 45 40 40 80 16 15 31 0 0
Residential Office Local Retail Destination Retail Elementary School Intermediate School School (Staff)	Out Total In Out	46 20 66 16 307 323 12 12 24 8 9 17 1 1 2 0 0 0	1 1 2 5 5 5 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0	53 23 76 5 88 93 21 21 42 4 4 4 0 0 0 0 0	Taxi	100 44 144 26 400 426 33 33 66 12 13 25 2 2 4 0 0 0	25 25 50 9 7 16 13 13 26 10 10 0 0 0 0 0	3 3 6 1 1 2 3 3 3 6 1 1 2 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	29 29 58 15 12 27 24 24 48 5 4 9 0 0 0 0 0	Taxi	57 57 114 25 20 45 40 40 80 16 15 31 0 0 0
Residential Office Local Retail Destination Retail Elementary School Intermediate School	Out Total In Out	46 20 66 16 307 323 12 12 24 8 9 17 1 1 2 0 0	1 1 2 5 5 5 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	53 23 76 5 88 93 21 21 42 4 4 4 8 0 0 0 0	Taxi	100 44 144 26 400 426 33 33 66 12 13 25 2 2 4 0 0 0	25 25 50 9 7 16 13 13 26 10 10 0 0 0 0 0 0	3 3 6 1 1 2 3 3 6 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	29 29 58 15 12 27 24 24 48 5 4 9 0 0 0 0 0 0	Taxi	57 57 114 25 20 45 40 40 80 16 15 31 0 0 0 0

Table 17-11 Comparison of Peak Hour Vehicle Trips For Development Site Reasonable Worst-Case Development Scenarios

	l Developii	2019			2017	
	Maximum I Scer		Maximum Commercial	Maximum I Scer		Maximum Commercial
Peak Hour	Office Option	Hotel Option	Scenario	Office Option	Hotel Option	Scenario
		Auto Tr	ips (In & Out Cor	mbined)		
AM	390	253	455	288	140	372
MD	214	244	225	140	164	161
PM	462	327	540	331	181	432
SAT	218	257	203	109	140	112
		Balanced Ta	xi Trips (In & Ou	t Combined)		
AM	426	504	406	204	254	228
MD	452	482	494	316	332	378
PM	500	550	522	300	324	356
SAT	390	476	370	202	264	212
		Truck T	rips (In & Out Co	mbined)		
AM	42	36	46	28	20	34
MD	38	30	44	30	18	36
PM	12	4	12	10	2	12
SAT	24	24	22	16	12	16
		School Bu	s Trips (In & Out	Combined)		
AM	4	4	4	4	4	4
MD	0	0	0	0	0	0
PM	2	2	2	2	2	2
SAT	0	0	0	0	0	0
		Total Vehic	le Trips (In & Out	Combined)		
AM	862	797	911	524	418	638
MD	704	756	763	486	514	575
PM	976	883	1,076	643	509	802
SAT	632	757	595	327	416	340

C. EXISTING CONDITIONS

STUDY AREA ROADWAY NETWORK

The roadway network within the study area is a grid composed of streets and avenues with general characteristics as follows.

STREETS

In Manhattan, streets generally run east-west (crosstown), most carrying one-way traffic with curb-to-curb widths varying from 30 to 34 feet and sidewalks that range from 11 to 15 feet in width. Even-numbered streets generally serve eastbound traffic, while odd-numbered streets generally serve westbound traffic. The exceptions are West 23rd, West 34th, and West 42nd Streets, which carry two-way traffic in curb-to-curb widths that range from 53 to 60 feet with sidewalks from approximately 20 to 24 feet in width. West 23rd Street and West 42nd Street have two moving lanes plus a curb lane in each direction. West 34th Street and West 42nd Street have exclusive bus lanes in operation and are discussed separately below under Special Study Area Street Operations.

AVENUES

In Manhattan, avenues generally run north-south (uptown/downtown) and are typically 60 to 70 feet wide from curb to curb, with sidewalks ranging from 15 to 20 feet in width. Sixth, Eighth, and Tenth

Avenues are one-way northbound and Seventh and Ninth Avenues flow one-way southbound. Eleventh Avenue operations vary, operating one-way southbound from West 34th Street to West 24th Street and from West 44th Street to West 40th Street, and two-way between West 22nd and West 24th Streets and between West 34th and West 40th Streets. Broadway carries one-way, southbound traffic. Unlike the other avenues, Broadway runs diagonally through the eastern edge of the study area, creating a unique intersection at its junction with Sixth Avenue and West 34th Street (Herald Square). Generally, one-way north-south roadways provide at least three travel lanes, except for a segment of Broadway between West 42nd and West 35th Streets, which has a pedestrian plaza and bicycle lane (further discussed below under Special Study Area Street Operations).

Route 9A (Twelfth Avenue within the study area) is a two-way north-south roadway along the Hudson River waterfront extending from the Henry Hudson Bridge to South Ferry and the Brooklyn Battery Tunnel. This roadway, the westernmost arterial in Manhattan, serves as a principal route through the study area and connects with the Henry Hudson Parkway to the north. Twelfth Avenue provides seven travel lanes within the study area (four northbound and three southbound) with on-street parking in some areas along the northbound side, and a landscaped median and left turn bays. There are buffered jogging and biking trails that run along the western edge of Twelfth Avenue within Hudson River Park.

OTHER ROADWAY INFRASTRUCTURE

In addition to the streets and avenues, two major traffic-related facilities are located within the study area, the Lincoln Tunnel and the Port Authority Bus Terminal (PABT). The Lincoln Tunnel and its access ramps are located within the study area to the north of the Development Site. As the major gateway to Midtown Manhattan from New Jersey and points west, Lincoln Tunnel operations affect the study area, especially during the weekday PM peak period.

The Lincoln Tunnel, operated by the Port Authority of New York and New Jersey (PANYNJ), consists of three two-lane tubes. The north tube, located at West 39th Street and Eleventh Avenue, always operates in a westbound direction. The south tube, located at West 38th Street and Tenth Avenue, operates in an eastbound direction only. The center tube, at West 39th Street and Tenth Avenue, is configured to allow each lane to operate in either a westbound or eastbound direction. The center tube currently operates under the following plan:

- Weekday AM peak: two lanes eastbound;
- Weekday midday peak: one lane in each direction; and
- Weekday PM peak: two lanes westbound.

During off-peak hours, the Lincoln Tunnel generally operates with three lanes in each direction, while during weekday commuting peak hours, the tunnel operates with four lanes in the peak direction and two lanes in the non-peak direction. During the weekday AM peak period, PANYNJ operates a 2½-mile exclusive bus lane (XBL) on Route 495 from the New Jersey Turnpike to the Lincoln Tunnel. Utilizing the XBL, commuter buses operate on a dedicated route to the Tunnel, avoiding congestion and significantly reducing travel time.

Dyer Avenue is located between Ninth and Tenth Avenues. It operates at-grade from West 34th to West 38th Streets and from West 39th to West 42nd Streets, providing egress from the Lincoln Tunnel's center and south tubes. The Lincoln Tunnel Expressway is located between Ninth and Tenth Avenues. It operates at grade from West 30th to West 33rd Streets, flowing both northbound and southbound from West 30th to West 31st Streets, and southbound only from West 31st to West 33rd Streets. The roadway operates below grade north of West 33rd Street and serves as an

ingress/egress route to and from the Lincoln Tunnel's center and south tubes and access to the north tube. Cardinal Stepinac Place/Galvin Plaza is located between Tenth and Eleventh Avenues, providing access to the Lincoln Tunnel's north tube from West 39th Street and West 40th Street and southbound from Cardinal Stepinac Place between West 40th and West 41st Streets. This roadway serves as access to the Lincoln Tunnel's north tube. The Lincoln Tunnel also provides direct access to the PABT via a series of above- and below-grade ramps and tunnels.

The PABT is located generally between Eighth and Ninth Avenues, from West 40th to West 42nd Streets. The terminal is situated above the 42nd Street Station of the Eighth Avenue subway line (A, C, and E trains), which is connected by a below-grade passageway to the Times Square subway station at Seventh Avenue and Broadway. The PABT is operated by PANYNJ and serves as the City's primary bus terminal for many suburban and inter-city bus lines, providing commuter access to upstate New York, New Jersey, and Pennsylvania. Regional service to an extended area (including connections to routes across the country) is also provided at the PABT. On a typical weekday, nearly 200,000 passenger trips pass through the PABT on approximately 7,000 bus movements.

EXCEPTIONS TO THE GRID SYSTEM

The regular Midtown Manhattan street grid is interrupted by the following facilities, which span across more than one square block and interrupt the standard street grid:

- PABT (between West 40th and West 42nd Streets, from Eighth to Ninth Avenues);
- Jacob K. Javits Convention Center, or the "Convention Center" (between West 34th and West 39th Streets, from Eleventh to Twelfth Avenues);
- Penn Station/Madison Square Garden (between West 31st and West 33rd Streets, from Seventh to Eighth Avenues);
- James A. Farley U.S. Post Office Building (between West 31st and West 33rd Streets, from Eighth to Ninth Avenues);
- Caemmerer Rail Yard, which includes the Development Site (between West 30th and West 33rd Streets, from Tenth to Twelfth Avenues with the Eleventh Avenue viaduct over the rail yard separating the Western Rail Yard and Eastern Rail Yard);
- U.S. Post Office Vehicle Maintenance Facility (between West 24th and West 26th Streets from Eleventh to Twelfth Avenues);
- Penn South Housing Project (various blocks between West 26th and West 29th Streets, from Eighth to Ninth Avenues); and
- Chelsea Waterside Park (between West 22nd and West 24th Streets, from Eleventh to Twelfth Avenues).

Due to these structures and a variety of grid deviations, the following streets are not continuous:

- West 27th Street between Eighth and Tenth Avenues;
- West 31st Street between Tenth and Twelfth Avenues:
- West 32nd Street between Seventh and Twelfth Avenues: and
- West 23rd, West 25th, West 35th, West 36th, West 37th, and West 38th Streets between Eleventh and Twelfth Avenues.

SPECIAL STUDY AREA STREET OPERATIONS

Along several corridors in the study area, street space is reserved for the exclusive use of certain vehicles, non-motorized transportation or pedestrians. NYCDOT has developed programs to enhance mobility by transit and bicycle city wide and has implemented several significant projects in the study area. Exclusive bus lanes have recently been installed on 34th Street. The curb lane in each direction is designated as a bus only lane from Eleventh Avenue to First Avenue with varying cross sections and hours of operation by project segment. From Ninth Avenue to Third Avenue, a total of three lanes westbound and two lanes eastbound are provided with the curb lane restricted to buses only weekdays from 7 AM to 7 PM. Except by buses, left turns are generally prohibited from Ninth Avenue to Third Avenue during weekdays. Also, the curb lanes on 42nd Street are reserved for buses only from Dyer Avenue to Park Avenue during weekday AM and PM peak periods, and the west curb lane of Eleventh Avenue is designated for buses only from West 42nd Street to West 37th Street between 7AM and 7PM. At West 37th Street, the Eleventh Avenue bus lane flows into the bus curbside layover area in front of the Convention Center.

Bicycle lanes have been installed on several corridors in the study area. Northbound Class 2 Bicycle Lanes (on-street striped route) are in place on Eighth Avenue extending from south of the study area to West 39th Street, on Eighth Avenue from West 42nd Street to north of the study area and also on Sixth Avenue south of West 42nd Street. A Class 1 Bicycle Path (separated on-street path) is in place on Ninth Avenue from south of the study area to West 31st Street. The design provides a completely protected bicycle path along the east curb lane isolated from Ninth Avenue traffic by adjacent parked vehicles, concrete islands or buffer areas.

Broadway Boulevard extends on Broadway from West 42nd Street to West 35th Street and includes a pedestrian plaza area installed in the roadbed along the east side of Broadway with planters and furniture, plus a Class 1 Bicycle Path. Two southbound lanes plus turn lanes are available for traffic within this segment of Broadway.

Other special street operations in the study area are the PM peak period provisions for Lincoln Tunnel access that affect certain study area roadways, the closure of West 39th Street between Ninth Avenue and Tenth Avenue on weekends between 9 AM and 6 PM for the Hell's Kitchen flea market, and the permanent closure of West 39th Street between Twelfth and Eleventh Avenues.

TRUCK ROUTES

The City of New York has regulations that restrict trucks to local and through truck routes plus other area-wide restrictions in effect in parts of West Midtown. The City defines a truck as "a vehicle which is designed for transportation of property, which has either of the following characteristics: two axles and six tires; or three or more axles."

Through trucks are defined as having "neither an origin nor a destination within the Borough of Manhattan." In the study area, through trucks are restricted to the following routes:

- Eleventh Avenue from West 34th Street to West 42nd Street;
- Twelfth Avenue from south of the study area to West 34th Street;
- West 42nd Street from Dyer Avenue to Eleventh Avenue;
- West 34th Street from Twelfth Avenue to Dyer Avenue;

¹ City of New York, Rules of the City of New York, Traffic Rules and Regulations, Volume II, Chapter 4-13.

² ibid.

- West 34th Street east of Dyer Avenue (excluding the period from 11 AM to 6 PM); and
- Dyer Avenue from the Lincoln Tunnel to West 34th Street.

Local truck routes are designated routes for trucks that are "intended for the purpose of delivery, loading, or providing service within the Borough of Manhattan." Generally, trucks must travel on local truck routes up to the nearest intersection to their destination. Designated local truck routes in the study area are as follows:

- Seventh Avenue south of West 31st Street
- Eighth Avenue
- Ninth Avenue
- Tenth Avenue
- Eleventh Avenue south of West 34th Street and north of West 42nd Street
- Twelfth Avenue north of West 33rd Street;
- Broadway south of West 31st Street;
- 23rd Street from First Avenue to Twelfth Avenue:
- West 30th Street from Broadway to Eleventh Avenue;
- 31st Street from Third Avenue to Tenth Avenue;
- 34th Street east of Dyer Avenue (11 AM to 6 PM);
- West 40th Street from the Lincoln Tunnel entrance to Ninth Avenue;
- West 41st Street from Ninth Avenue to the Lincoln Tunnel entrance; and
- 42nd Street from First Avenue to Twelfth Avenue.

Restriction of all entering trucks or trucks having an overall length of 33 feet or more are also in effect weekdays during specified hours in designated sub-areas within the traffic study area.

TRAFFIC CONTROL

Traffic movements at most intersections in the study area are controlled by traffic signals operating on a 90-second cycle. The major exception is Twelfth Avenue, which operates on either a 150-second or a 120-second cycle. The allocation of cycle time is generally 60 percent to the avenues, 35 percent to the streets, and 5 percent for clearance intervals. Pedestrian signals ("Walk" or "Don't Walk" symbols) are provided at nearly all intersections throughout the study area. At some intersections lead pedestrian intervals are provided that allow for a short walk period before the vehicles receive a green signal at the start of the phase.

TRAFFIC VOLUMES

The base year traffic conditions described in this section represent 2008 conditions. An extensive data collection program, including automatic traffic recorder (ATR) counts, manual turning movement and vehicle classification counts, travel time and delay surveys, and an inventory of roadway geometry and intersection signal timing was undertaken in September and October of 2008.

¹ ibid.

Peak hour traffic volumes in the study area are generally substantially higher along north-south avenues than along the east-west cross-town streets. In the vicinity of the Development Site, Twelfth Avenue carries considerably higher traffic volumes than other avenues. Traffic flows on Twelfth Avenue are typically higher southbound during the weekday AM and midday peak hours, higher northbound during the PM peak hour and balanced on Saturday with peak directional traffic volumes between 2,500 and 3,000 vehicles per hour (vph). Since Eleventh Avenue functions as a continuous southbound corridor, southbound traffic levels on Eleventh Avenue south of West 40th Street are considerably higher than northbound flows. In the two-way section between West 34th Street and West 40th Street, northbound traffic volumes are generally less than 400 vph while southbound traffic levels exceed 1,000 vph during the AM peak hour. Further east of the Development Site, traffic volumes on northbound Tenth Avenue and southbound Ninth Avenue generally approximate or exceed 1,500 vph with slightly higher levels on Tenth Avenue. Likewise, Eighth Avenue northbound traffic volumes and Seventh Avenue southbound traffic volumes generally peak at similar levels with a slightly higher peak on Seventh Avenue.

Peak hour traffic volumes on east-west streets in the vicinity of the Development Site are generally at approximately 500 vph or less with some exceptions, generally related to travel to and from the Lincoln Tunnel. Traffic volumes on West 30th Street between the Lincoln Tunnel Expressway and Eighth Avenue vary between approximately 600 vph and 800 vph. Also, traffic volumes westbound on West 34th Street east of Tenth Avenue range from approximately 600 vph to 800 vph during the PM peak hour and traffic volumes exceed 700 vph on West 30th Street between Tenth Avenue and the Lincoln Tunnel Expressway.

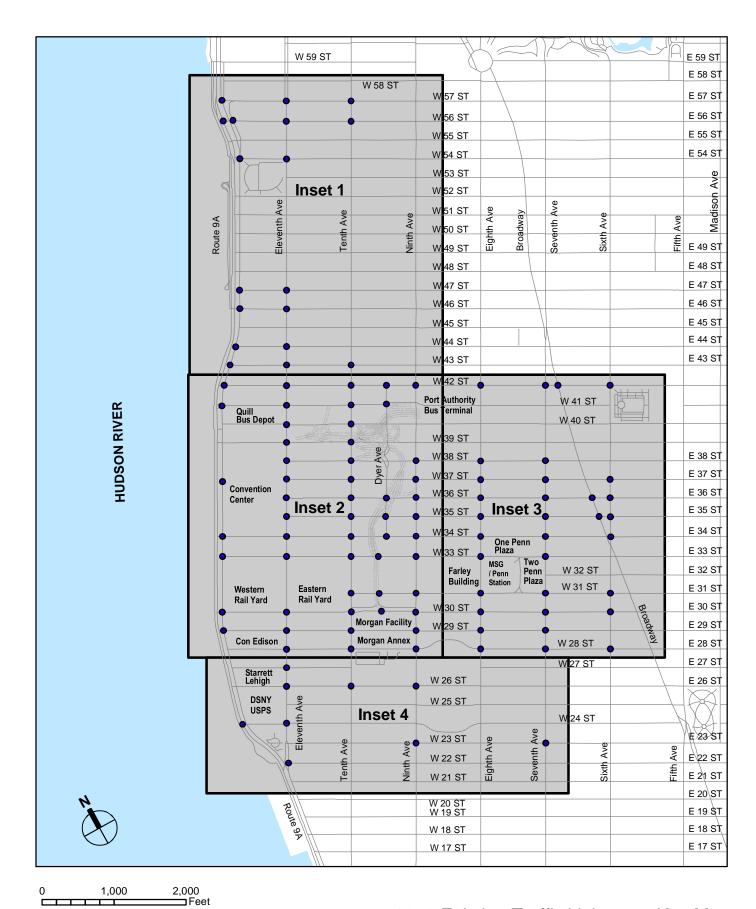
Figures 17-2 through 17-18 provide the 2008 base traffic volumes for the typical weekday AM (8 AM to 9 AM), midday (12 noon to 1 PM), PM (5 PM to 6 PM) and typical Saturday midday (1 PM to 2 PM) peak hours, respectively, in the study area.

INTERSECTION CAPACITY ANALYSIS

Although most intersections in the traffic study area operate at overall acceptable levels during the four analysis peak hours, individual approach movements at numerous intersections operate at mid-LOS D or worse. Overall <u>61</u> approach movements at 38 intersections operate at mid-LOS D, LOS E or LOS F in the AM peak hour; 37 approach movements at 32 intersections operate at mid-LOS D, LOS E, or LOS F in the midday peak hour, <u>89</u> approach movements at <u>56</u> intersections operate at mid-LOS D, LOS E, or LOS F in the PM peak hour; and 34 approach movements at <u>25</u> intersections operate at mid-LOS D, LOS E, or LOS F in the Saturday midday peak hour. These findings are presented in Table 17-12. Intersection approaches or individual approach movements operating at capacity or within LOS E or F are discussed below. Detailed analysis results, including the v/c ratio, delay, and LOS, for intersections with one or more approach or lane group operating at mid-LOS D or worse are provided in Table 17-13 for the weekday AM, midday, PM and Saturday midday peak periods.

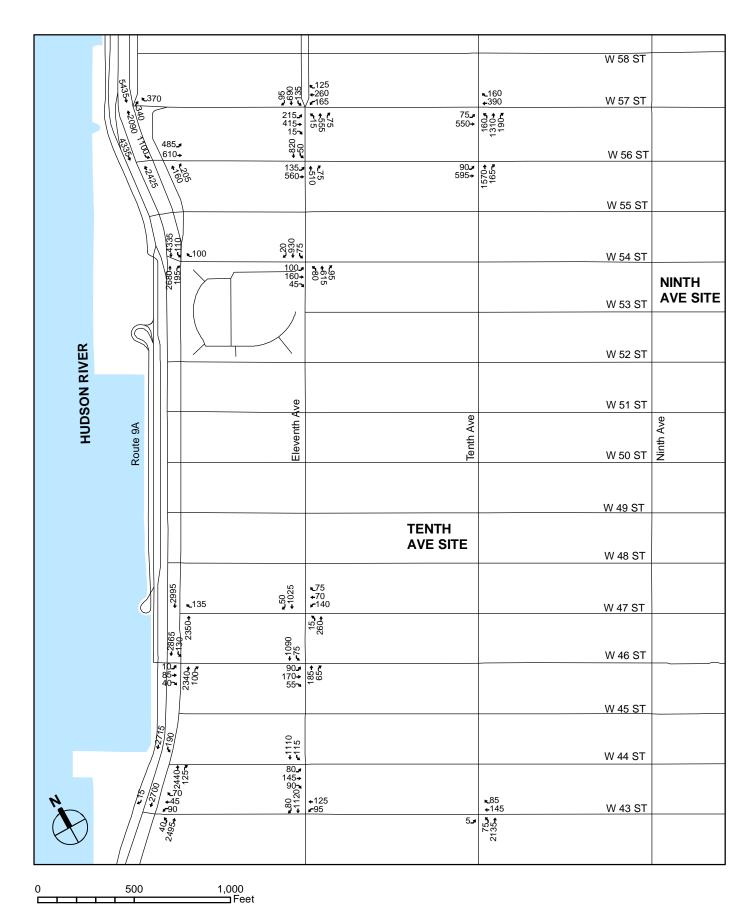
Table 17-12 Number of Intersection Approach Movements at Mid-LOS D, LOS E, or LOS F

	Analysis Hour			
Level of Service	AM	Weekday Midday	PM	Saturday Midday
Mid-LOS D	<u>19</u>	11	11	9
LOS E	<u>24</u>	<u>Z</u>	28	7
LOS F	<u>18</u>	<u>19</u>	<u>50</u>	18

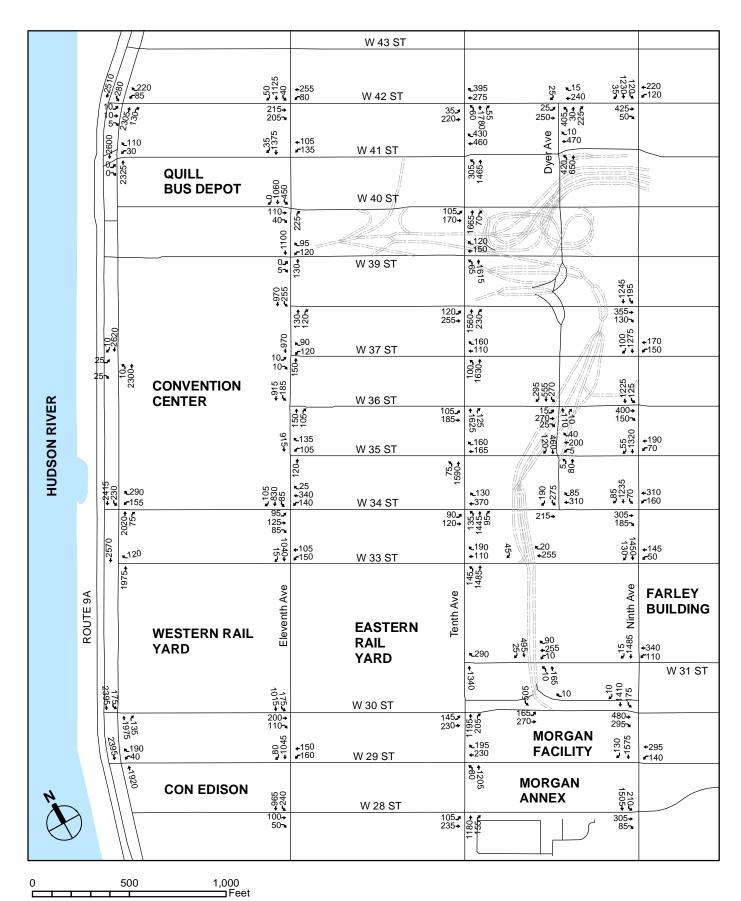


2008 Existing Traffic Volumes: Key Map (Weekday AM, Midday, PM Peak Hours)

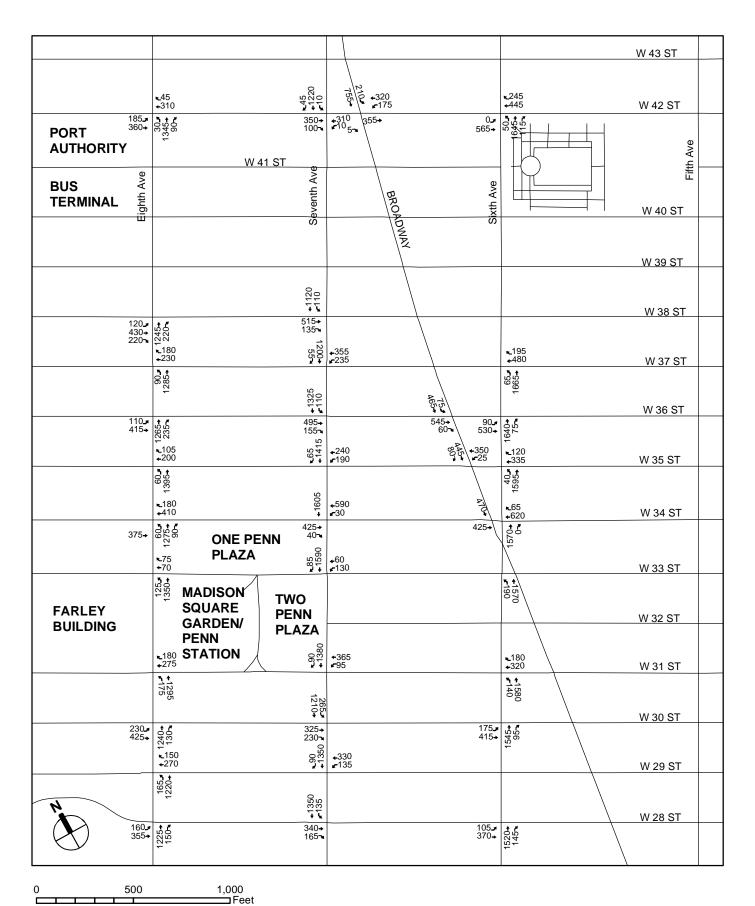
WESTERN RAIL YARD Figure 17-2



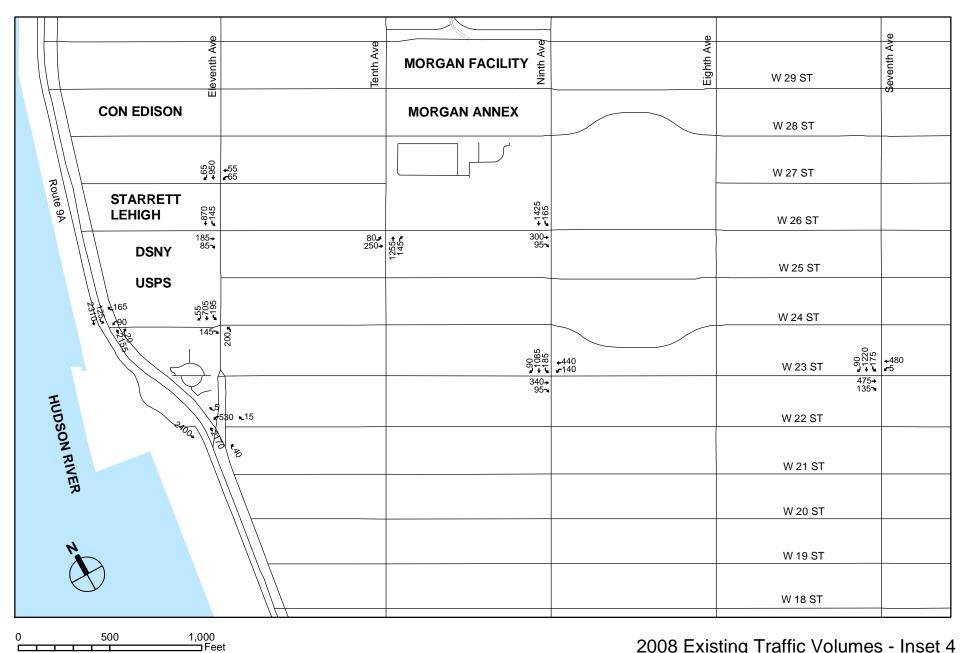
2008 Existing Traffic Volumes - Inset 1 (Weekday AM Peak Hour)



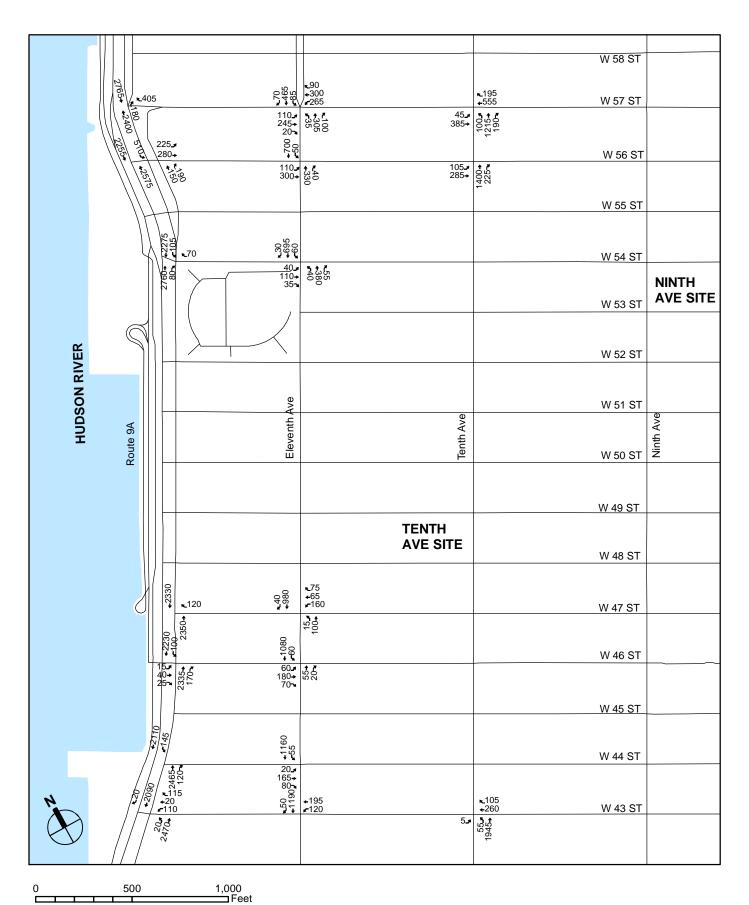
2008 Existing Traffic Volumes - Inset 2 (Weekday AM Peak Hour)



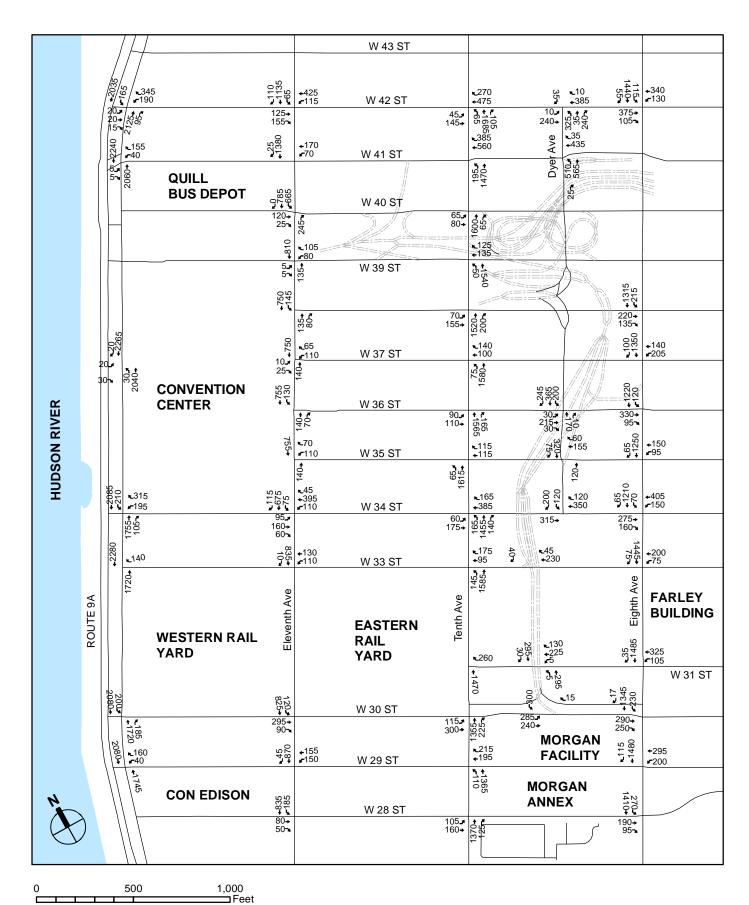
2008 Existing Traffic Volumes - Inset 3 (Weekday AM Peak Hour)



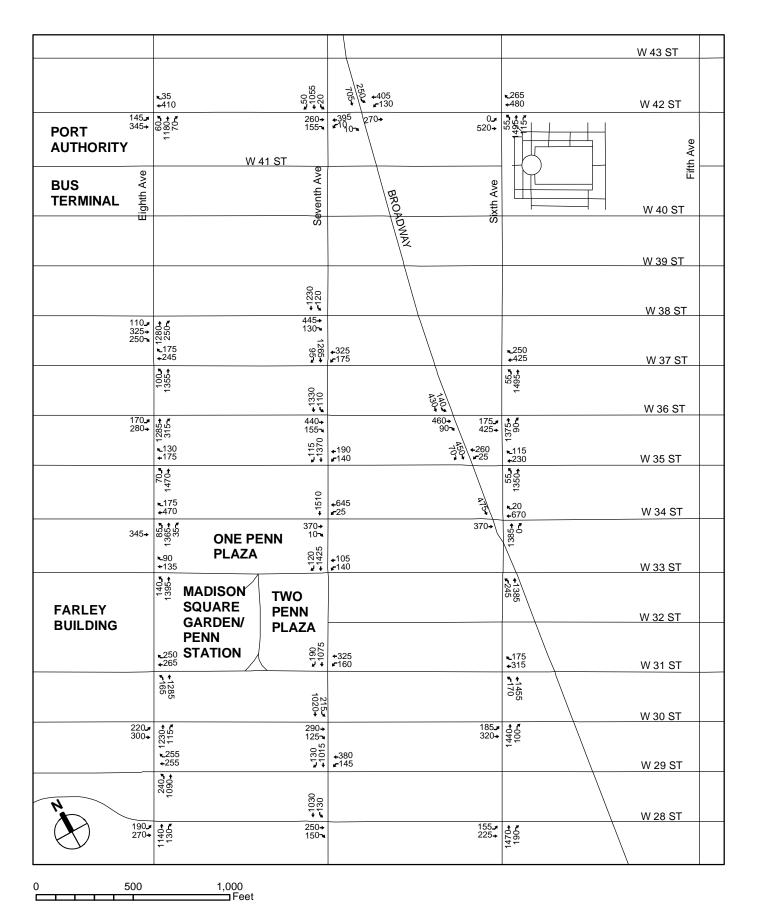
2008 Existing Traffic Volumes - Inset 4 (Weekday AM Peak Hour)



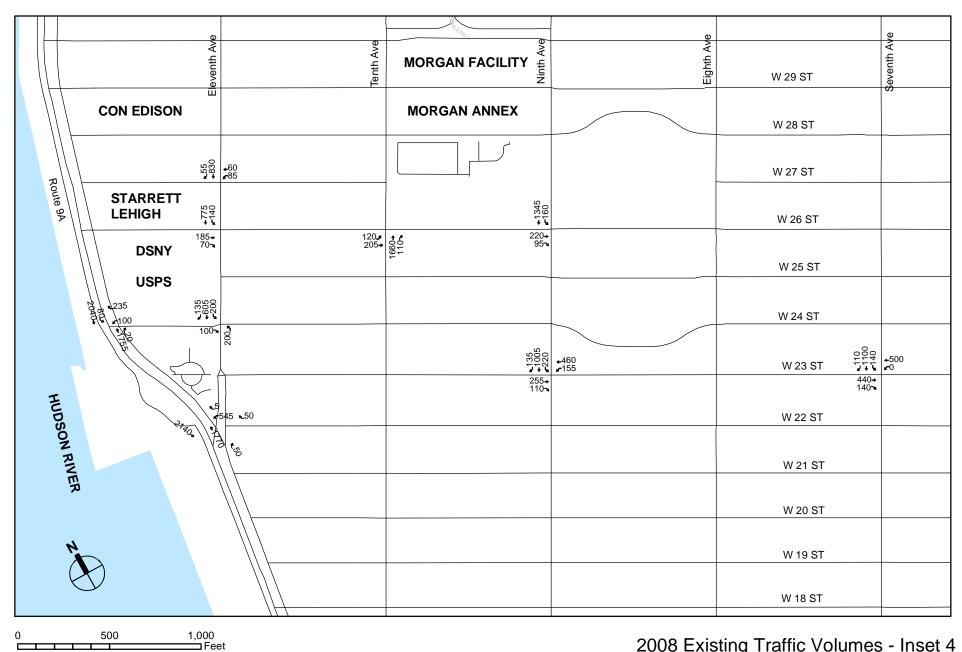
2008 Existing Traffic Volumes - Inset 1 (Weekday Midday Peak Hour)



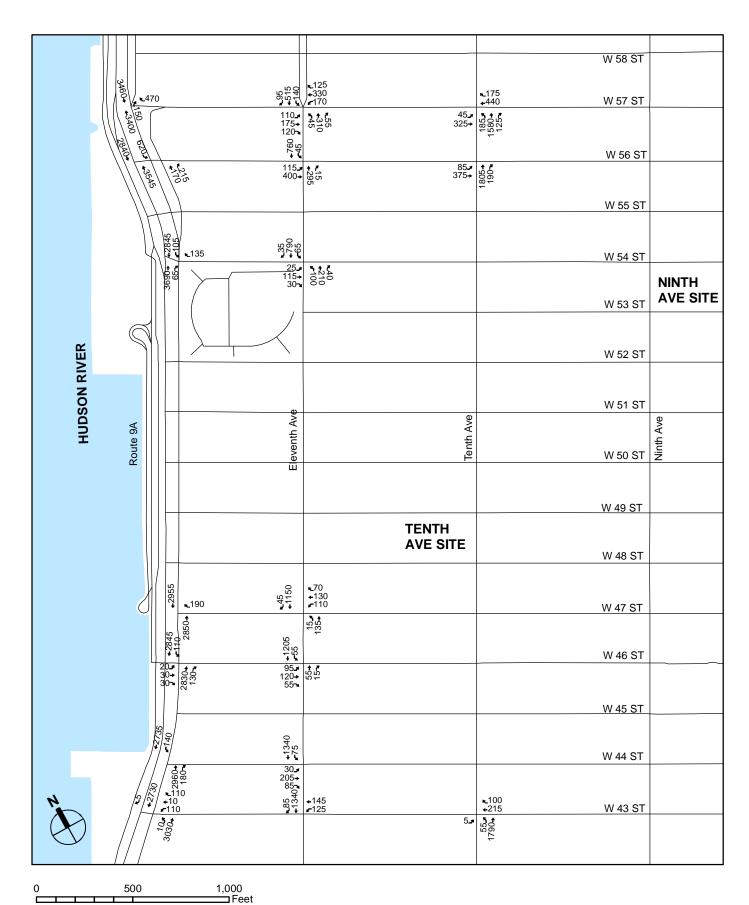
2008 Existing Traffic Volumes - Inset 2 (Weekday Midday Peak Hour)



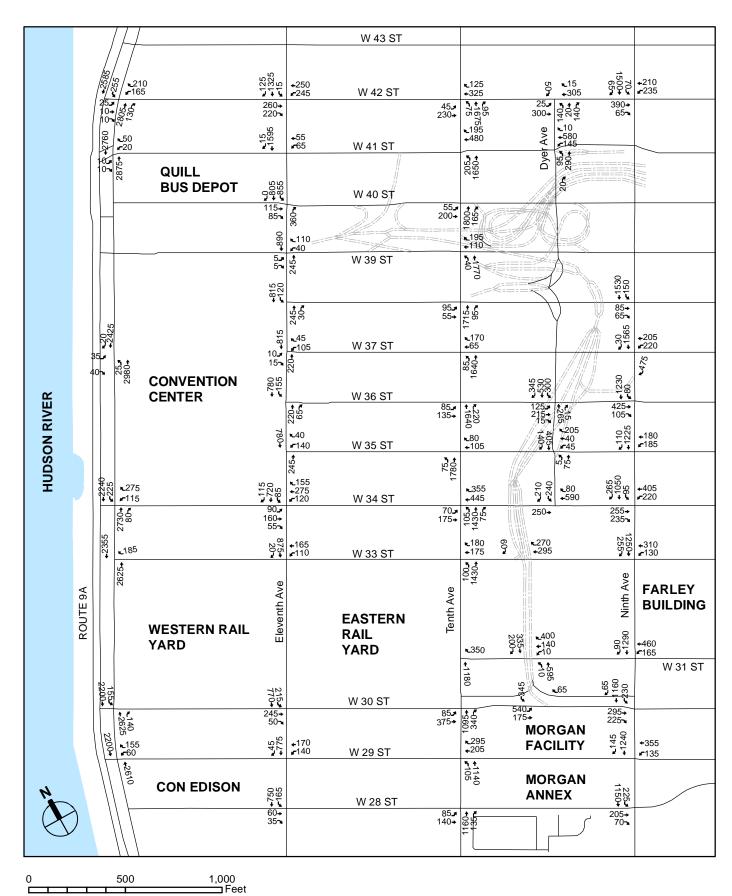
2008 Existing Traffic Volumes - Inset 3 (Weekday Midday Peak Hour)



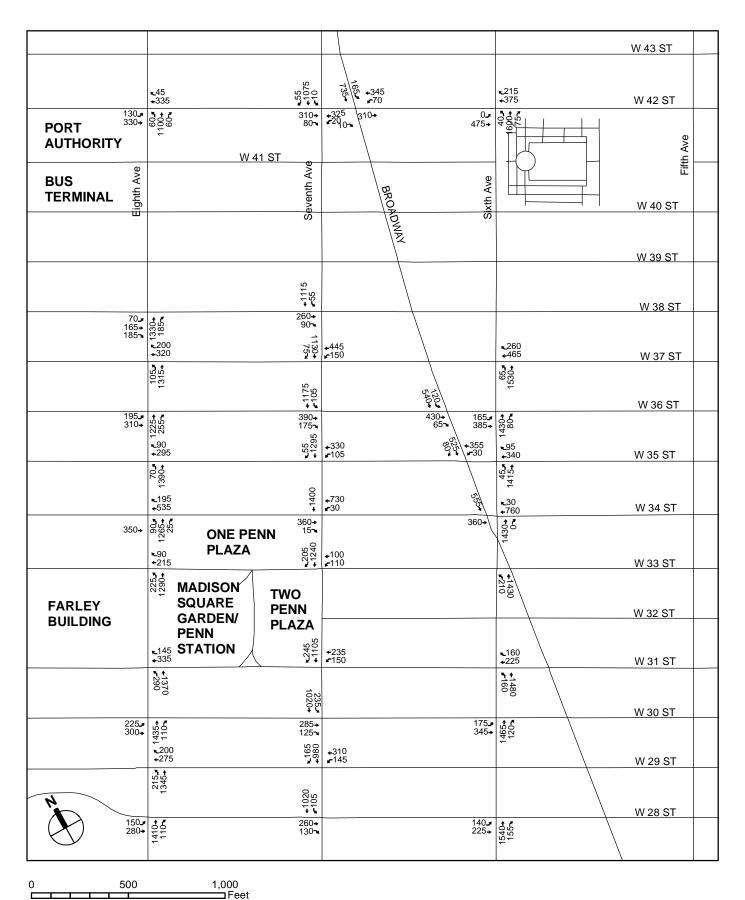
2008 Existing Traffic Volumes - Inset 4 (Weekday Midday Peak Hour)



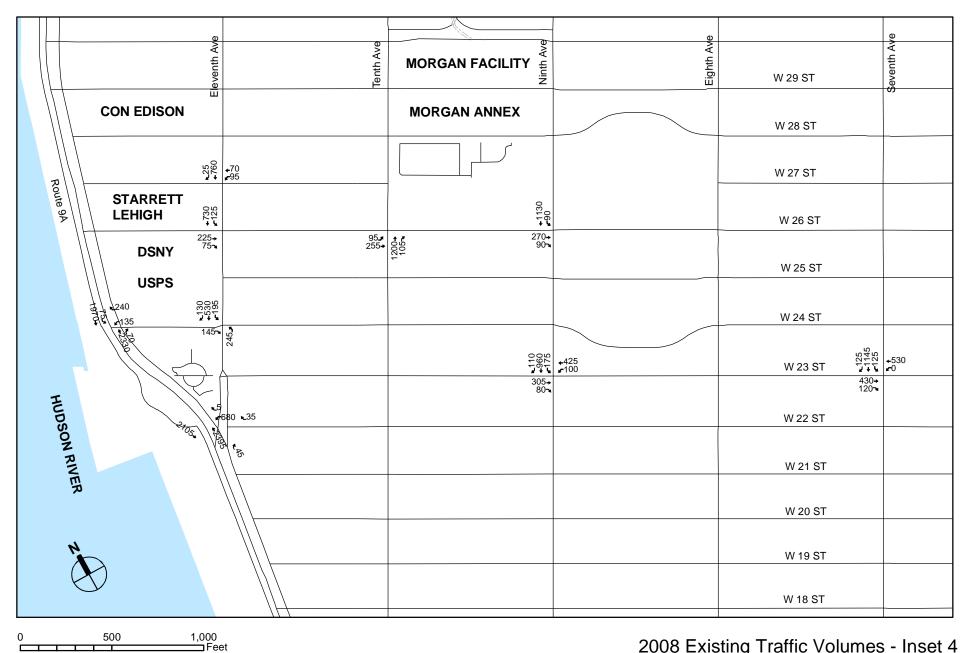
2008 Existing Traffic Volumes - Inset 1 (Weekday PM Peak Hour)



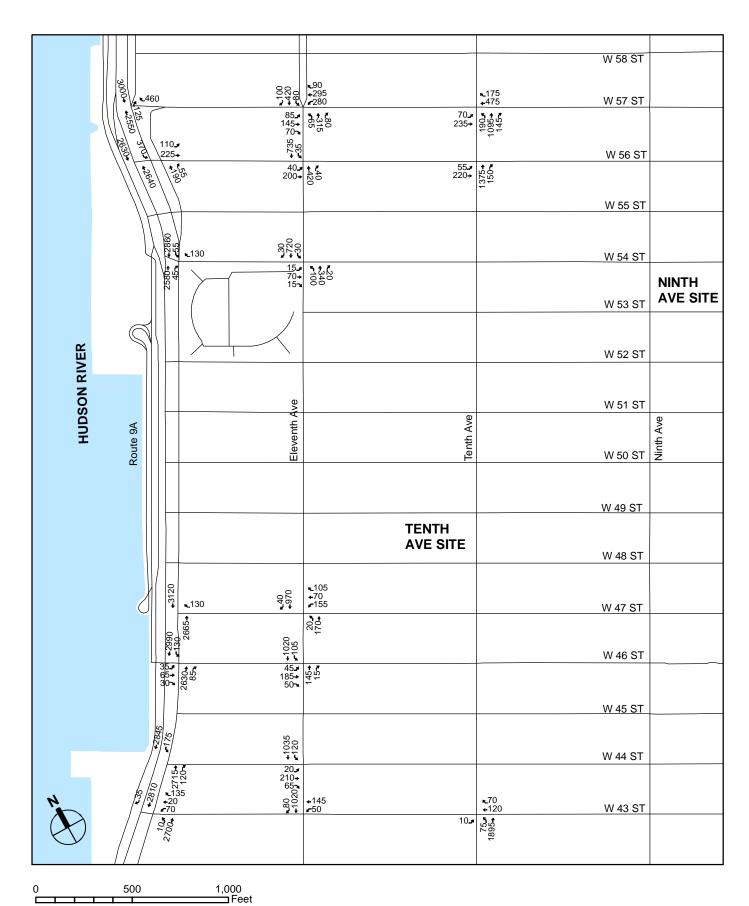
2008 Existing Traffic Volumes - Inset 2 (Weekday PM Peak Hour)



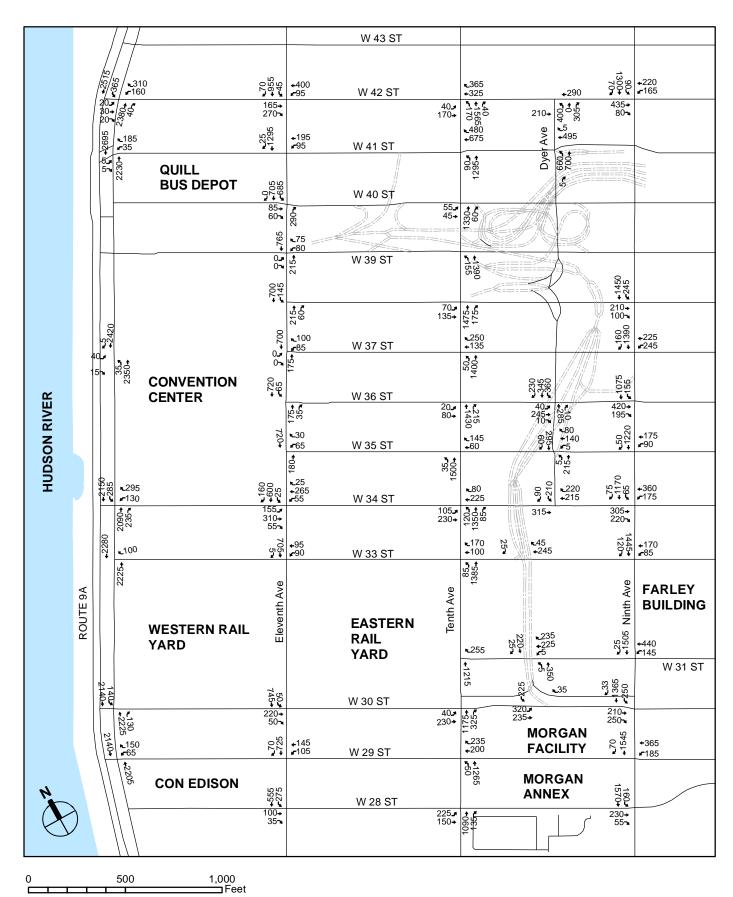
2008 Existing Traffic Volumes - Inset 3 (Weekday PM Peak Hour)



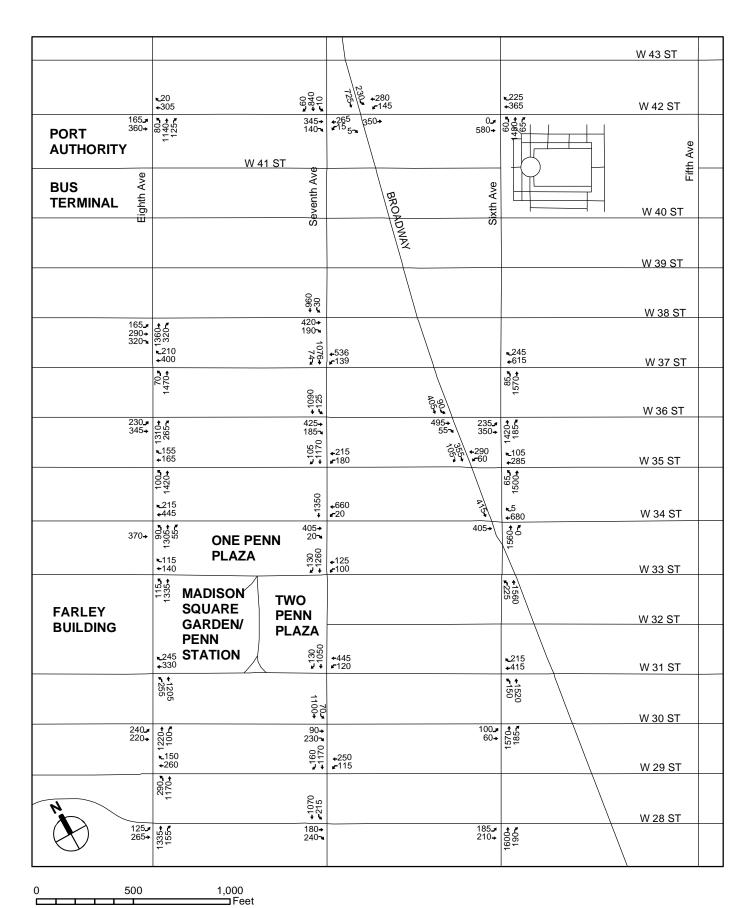
2008 Existing Traffic Volumes - Inset 4 (Weekday PM Peak Hour)



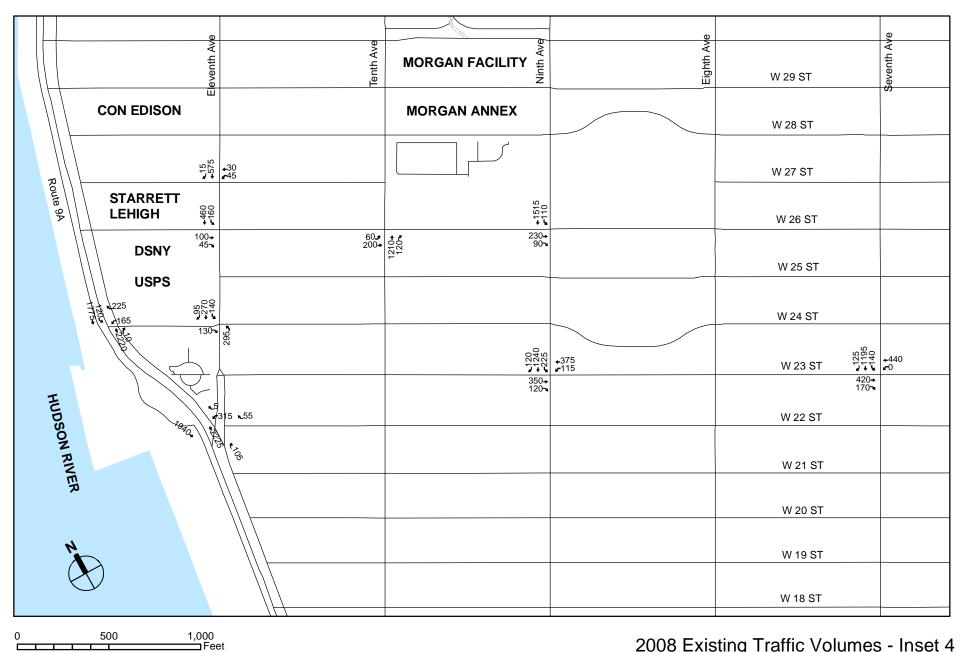
2008 Existing Traffic Volumes - Inset 1 (Saturday Midday Peak Hour)



2008 Existing Traffic Volumes - Inset 2 (Saturday Midday Peak Hour)



2008 Existing Traffic Volumes - Inset 3 (Saturday Midday Peak Hour)



2008 Existing Traffic Volumes - Inset 4 (Saturday Midday Peak Hour)

SIXTH AVENUE

- The West 28th Street eastbound approach to Sixth Avenue operates at LOS F during the weekday midday and Saturday midday peak hours.
- The West 30th Street eastbound approach to Sixth Avenue operates at LOS F during the weekday midday and PM peak hours.
- The West 34th Street eastbound approach to Sixth Avenue operates at LOS F during the
 weekday AM and midday, and Saturday midday peak hours. The West 34th Street
 westbound approach to Sixth Avenue operates at LOS F during the weekday AM and PM
 peak hours.
- The left turn lane on the West 36th Street eastbound approach to Sixth Avenue operates at LOS E during the weekday midday peak hour and at LOS F during the Saturday midday peak hour.

SEVENTH AVENUE

- The West 28th Street eastbound approach to Seventh Avenue operates at LOS F during the weekday AM and Saturday midday peak hour.
- The West 29th Street westbound approach to Seventh Avenue operates at LOS F during the weekday midday peak hour and at LOS E during the weekday PM peak hour.
- The West 30th Street eastbound approach operates at LOS F during the weekday PM peak hour.
- The West 31st Street westbound approach to Seventh Avenue operates at LOS E during the Saturday midday peak hour.
- The West 33rd Street westbound approach to Seventh Avenue operates at LOS E during the weekday AM and PM peak hours at LOS F during the weekday midday peak hour.
- The West 34th Street eastbound approach to Seventh Avenue operates at LOS E during the Saturday midday peak hour.
- The West 35th Street westbound approach to Seventh Avenue operates at LOS F during the weekday AM peak hour.
- The West 36th Street eastbound approach to Seventh Avenue operates at LOS F during the weekday AM peak hour.
- The West 37th Street westbound approach to Seventh Avenue operates at LOS F during the Saturday midday peak hour.
- The West 38th Street eastbound approach to Seventh Avenue operates at LOS F during the Saturday midday peak hour.

EIGHTH AVENUE

- The West 29th Street westbound approach to Eighth Avenue operates at LOS F during the weekday midday peak hour and PM peak hours.
- The West 30th Street eastbound approach to Eighth Avenue operates at LOS F during the weekday midday and PM peak hours.
- The West 31st Street westbound approach to Eighth Avenue operates at LOS F during the Saturday midday peak hour.

- The West 35th Street westbound approach to Eighth Avenue operates at LOS F during the weekday PM peak hour and at LOS E during the Saturday midday peak hour.
- The West 36th Street eastbound approach to Eighth Avenue operates at LOS F during the weekday AM and midday peak hours, and Saturday midday peak hour.

NINTH AVENUE

- The left turn lane on the Ninth Avenue southbound approach to West 30th operates at LOS F during the weekday midday and PM peak hours, and Saturday midday peak hour.
- The West 30th Street eastbound approach to Ninth Avenue operates at LOS F during the weekday PM peak hour.
- The West 31st Street westbound approach to Ninth Avenue operates at LOS F during the weekday PM peak hour.
- The West 33rd Street westbound approach to Ninth Avenue operates at LOS F during the weekday PM peak hour.
- The right turn lane on the West 34th Street eastbound approach to Ninth Avenue operates at LOS E during the weekday AM peak hour and at LOS F during the weekday PM peak hour.
- The West 35th Street westbound approach to Ninth Avenue operates at LOS F during the weekday PM peak hour.
- The through and right turn lanes to the southbound Ninth Avenue approach to the Lincoln Tunnel Expressway at West 37th Street operates at LOS F during the weekday PM peak hour.
- The through lanes at the southbound Ninth Avenue approach to West 37th Street leading to the Lincoln Tunnel Expressway operate at LOS F during the weekday PM peak hour.
- The West 42nd Street eastbound approach to Ninth Avenue operates in LOS F during the weekday midday peak hour.

TENTH AVENUE

- The West 26th Street eastbound approach to Tenth Avenue operates at LOS E during the weekday AM and PM peak hours.
- The West 28th Street eastbound approach to Tenth Avenue operates at LOS E during the weekday AM peak hour and at LOS F during the Saturday midday peak hour.
- The West 30th Street eastbound approach to Tenth Avenue operates at LOS E during the weekday midday and PM peak hours.
- The right turn lane on the West 34th Street westbound approach to Tenth Avenue operates at LOS F during the weekday PM peak hour.
- The West 36th Street eastbound approach to Tenth Avenue operates at LOS F during the weekday midday peak hour.
- The West 37th Street westbound approach to Tenth Avenue operates at LOS F during the weekday PM peak hour.
- The West 38th Street eastbound approach to Tenth Avenue operates at LOS F during the weekday PM peak hour.

- The right turn lane <u>and the through lane</u> on the West 39th Street westbound approach to Tenth Avenue operates at LOS F during the weekday PM peak hour.
- The Tenth Avenue northbound approach to West 39th Street operates at LOS F during the weekday PM peak hour.
- The West 40th Street eastbound approach to Tenth Avenue operates at LOS F during the weekday PM peak hour.
- The Tenth Avenue northbound approach to West 40th Street operates at LOS F during the weekday PM peak hour.
- The left turn lane on the Tenth Avenue northbound approach to West 41st Street operates at LOS E during the weekday PM peak hour.
- The through lane on West 41st Street westbound approach to Tenth Avenue operates at LOS F during the weekday PM peak hour.
- The West 42nd Street eastbound approach to Tenth Avenue operates at LOS F during the weekday AM, midday, and PM peak hours and at LOS F during the Saturday midday peak hour. The West 42nd Street westbound approach to Tenth Avenue operates at LOS F during the weekday, midday, and PM peak hours, and Saturday midday peak hour.
- The West 43rd Street westbound approach to Tenth Avenue operates at LOS E during the weekday midday peak hour.

ELEVENTH AVENUE

- The through and right turn lane group on the Eleventh Avenue southbound approach to Twelfth Avenue operates at LOS E during the weekday AM and PM peak hours.
- The Twelfth Avenue northbound approach to Eleventh Avenue operates at LOS F during the weekday PM peak hour.
- The through and right turn lane group on the Eleventh Avenue southbound approach to West 24th Street operates at LOS F during the weekday AM and midday peak hours.
- The West 26th Street eastbound approach to Eleventh Avenue operates at LOS F during the weekday AM and PM peak hours and at LOS E during the weekday midday peak hour.
- The Eleventh Avenue northbound approach to West 38th Street operates at LOS F during the weekday PM peak hour.
- The Eleventh Avenue northbound approach to West 39th Street operates at LOS F during the weekday PM peak hour.
- The right turn lanes on the Eleventh Avenue northbound approach to West 40th Street and the Lincoln Tunnel operate at LOS F during the weekday PM peak hour.
- The left turn lanes on the Eleventh Avenue southbound approach to West 40th Street and the Lincoln Tunnel operate at LOS F during the weekday PM peak hour.
- The West 40th Street eastbound approach to Eleventh Avenue operates at LOS E during the weekday PM peak hour.
- The through lanes on the Eleventh Avenue southbound approach to West 41st Street leading to the Lincoln Tunnel operate at LOS F during the weekday PM peak hour.
- The left turn lane on the West 42nd Street westbound approach to Eleventh Avenue operates at LOS F during the weekday PM peak hour and the left turn and through lane group on the

- West 42nd Street westbound approach to Eleventh Avenue operates at LOS E during the weekday PM peak hour.
- The through lane on the Eleventh Avenue southbound approach to West 42nd Street leading to the Lincoln Tunnel operates at capacity and at LOS F during the weekday PM peak hour.
- The through lanes on the Eleventh Avenue southbound approach to West 43rd Street leading to the Lincoln Tunnel operate at LOS F during the weekday PM peak hour.
- The through lanes on the Eleventh Avenue southbound approach to West 44th Street leading to the Lincoln Tunnel operate at LOS F during the weekday PM peak hour.
- The West 54th Street eastbound approach to Eleventh Avenue operates at LOS E during the weekday AM peak hour.
- The West 57th Street eastbound approach to Eleventh Avenue operates at LOS E during the weekday AM and PM peak hours. The left turn lane on the West 57th Street westbound approach to Eleventh Avenue operates at LOS E during the weekday midday and Saturday midday peak hours. The through and right turn lane group on the West 57th Street westbound approach to Eleventh Avenue operates at LOS F during the Saturday midday peak hour.

TWELFTH AVENUE

- The West 24th Street westbound approach to Twelfth Avenue operates at LOS E during the weekday AM and PM peak hours. The left turn lane on the Twelfth Avenue southbound approach to West 24th Street operates at LOS F during the weekday AM and PM peak hours, the Saturday midday peak hour and at LOS E during the weekday midday peak hour.
- The West 29th Street westbound approach to Twelfth Avenue operates at LOS F during the weekday AM and PM peak hours and at LOS E during the weekday, midday, and Saturday midday peak hours.
- The left turn lane on the Twelfth Avenue southbound approach to West 30th Street operates at LOS F during all peak hours.
- The left turn lane on the West 34th Street westbound approach to Twelfth Avenue operates at LOS E during the weekday AM and PM peak hours. The left and right turn lanes on the West 34th Street westbound approach to Twelfth Avenue operate at LOS E during the weekday AM and PM peak hours. The left turn lanes on the Twelfth Avenue southbound approach to West 34th Street operate at LOS F during weekday PM peak hour and at LOS E during the weekday AM and midday peak hours and Saturday midday peak hour.
- The left turn lane on the Twelfth Avenue northbound approach to the Pier 79 Ferry Terminal operates at LOS E during the weekday AM and PM peak hours. The Twelfth Avenue southbound approach to the Pier 79 Ferry Terminal operates at LOS F during the weekday AM and Saturday midday peak hours. The exit from the Pier 79 Ferry Terminal operates at LOS E during the weekday PM peak hour.
- The through lanes on the Twelfth Avenue northbound and southbound approaches to West 41st Street operate at LOS F during the weekday AM peak hour. The southbound through lanes operate at LOS E during the Saturday midday peak hour. The left and right turn lanes on the West 41st Street westbound approach to Twelfth Avenue operate at LOS E during the weekday PM peak hour.
- The left turn lanes on the West 42nd Street westbound approach to Twelfth Avenue operate at LOS E and the left turn lanes on the Twelfth Avenue southbound approach to West 42nd

- Street operate at LOS F during the weekday PM peak hour. The through lanes on the Twelfth Avenue northbound approach to West 42nd Street operate at LOS F during the Saturday midday peak hour.
- The West 43rd Street westbound approach to Twelfth Avenue operates at LOS E during the weekday AM and PM peak hours. The left turn lane on the Twelfth Avenue northbound approach to West 43rd Street operates at LOS F during the weekday AM peak hour and at LOS E during the weekday midday and PM peak hours.
- The left turn lane on the Twelfth Avenue southbound approach to West 44th Street operates at LOS E during the weekday AM and PM peak hours.
- The left turn lane on the Twelfth Avenue southbound approach to West 46th Street operates at LOS F during all time periods. The West 46th Street eastbound approach to Twelfth Avenue operates at LOS E during the weekday AM peak hour.
- The right turn lane on the westbound West 54th Street approach to Twelfth Avenue operates at LOS E during the weekday AM and PM peak hours. The left turn lane on the Twelfth Avenue southbound approach to West 54th Street operates at LOS E during the weekday AM and PM peak hours. The through lanes on the Twelfth Avenue southbound approach to West 54th Street operates at LOS E during the weekday AM peak hour.
- The left turn lanes on the Twelfth Avenue southbound approach to West 56th Street operate at LOS F during the weekday midday, and PM peak hours.
- The right turn lanes on the West 57th Street westbound approach to Twelfth Avenue operate at LOS F during the weekday PM peak hour.

BROADWAY

• The through lanes on the West 35th Street westbound approach to Broadway operate at LOS E during the weekday PM peak hour.

DYER AVENUE

- The Dyer Avenue southbound approach to West 34th Street operates at LOS E during the AM peak hour. The left turn plus right turn and right turn lane group on the Dyer Avenue southbound approach to West 34th Street operates at LOS E during the weekday PM peak hour. The right turn lane on the West 34th Street westbound approach to Dyer Avenue operates at LOS F during the PM peak hour.
- The West 35th Street westbound approach to Dyer Avenue operates at LOS F during the weekday PM peak hour.
- The West 36th Street eastbound approach to Dyer operates at LOS E during the weekday AM peak hour.
- The Dyer Avenue northbound approach to West 36th Street operates at LOS F during the PM peak hour.
- The West 41st Street westbound approach to Dyer Avenue operates at LOS F during the PM peak hour.
- The through lane leading to the Lincoln Tunnel on the West 42nd Street westbound approach to Dyer Avenue operates at LOS F during the PM peak hour.

Detailed analysis results, including the v/c ratio, delay, and LOS, for intersections with one or more approach or lane group operating at mid-LOS D or worse are provided in Table 17-13 for the weekday AM, midday, PM and Saturday midday peak periods.

Table 17-13 Existing Conditions Intersection Approach Movements Operating at LOS Mid-D, E, or \mathbf{F}^1

Existing Conditions Intersection					11						<u>, , , , , , , , , , , , , , , , , , , </u>							
		AM				Midday				PM				Saturday				
Intersection	Approach	Movt.	V/C Ratio	Delay Sec/Veh	LOS	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 @ 28th Street	EB					LT	0.75	143.1	F					LT	0.74	127.0	F	
Sixth Avenue @ 30th Street	EB					LT	0.78	100.5	F	LT	0.78	97.8	F					
	EB	Т	1.05	268.5	F	Т	1.04	234.5	F	Т	0.85	47.4	D	Т	1.03	354.3	F	
Sixth Avenue @ 34th Street	WB	TR	1.01	104.2	F	TR	0.91	46.1	D	TR	1.05	256.7	F					
Sixth Avenue @ 36th Street	EB					L	0.79	59.1	Е	L	0.71	50.9	D	L	1.02	173.1	F	
Seventh Avenue @ 28th Street	EB	TR	0.73	232.1	F									TR	0.67	237.3	F	
Seventh Avenue @ 29th Street	WB	LT	0.95	54.6	D	L	1.05	299.4	F	LT	0.95	55.6	Е					
Seventh Avenue @ 30th Street	EB									T R	0.59	97.5 95.5	F					
Seventh Avenue @ 31st Street	WB					LT	0.93	49.4	D					LT	0.97	56.0	Е	
Seventh Avenue @ 33rd Street	WB	LT	0.92	75.8	Е	LT	1.05	282.5	F	LT	0.92	73.0	Е	LT	0.81	52.6	D	
Seventh Avenue 34th Street	EB													TR	0.43	73.6	Е	
Seventh Avenue @ 35th Street	WB	LT	0.60	137.2	F													
Seventh Avenue @ 36th Street	EB	TR	0.83	239.6	F													
Seventh Avenue @ 37th Street	WB													LT	0.64	94.5	F	
Seventh Avenue @ 38th Street	EB													TR	0.70	151.1	F	
Eighth Avenue @ 29th Street	WB	TR	0.90	47.2	D	TR	1.03	292.1	F	TR	1.04	222.2	F					
Eighth Avenue @ 30th Street	EB					LT	0.57	99.9	F	LT	0.60	113.8	F					
Eighth Avenue @ 31st Street	WB													TR	0.61	101.4	F	
Eighth Avenue @ 35th Street	WB	TR	0.88	53.3	D					TR	1.04	232.6	F	TR	0.98	72.9	Е	
Eighth Avenue @ 36th Street	EB	LT	0.67	165.5	F	LT	0.52	99.1	F					LT	0.77	228.1	F	
Ninth Avenue @ 23rd Street	EB	TR	0.85	46.3	D													
Ninth Avenue @ 28th Street	EB	TR	0.92	51.6	D													
Ninth Avenue @ 30th Street	EB									TR	0.55	179.2	F					
Militi Avende @ 30th Street	SB	L	0.73	51.6	D	L	1.05	219.8	F	L	1.03	212.2	F	L	1.05	208.5	F	
Ninth Avenue @ 31st Street	WB									LTR	0.72	158.9	F					
Ninth Avenue @ 33rd Street	WB									LT	1.05	267.3	F					
Ninth Avenue @ 34th Street	EB	R	0.87	63.0	Е	R	0.75	47.1	D	R	1.05	286.6	F					
Ninth Avenue @ 35th Street	WB									LT	1.04	232.9	F					
Ninth Avenue @ 36th Street	EB	TR	0.73	49.9	D													
Ninth Avenue @ 37th Street	SB									TR (LnT)	1.00	180.0	F					
Ninth Avenue @ 38th Street	SB									T (LnT)	1.00	185.7	F					
Ninth Avenue @ 42nd Street	EB					TR	0.53	176.1	F									
Tenth Avenue @ 26th Street	EB	LT	0.92	57.3	Е	LT	0.85	46.0	D	LT	0.94	61.5	Е					
Tenth Avenue @ 28th Street	EB	LT	0.98	73.0	Е									LT	1.05	272.2	F	
Tenth Avenue @ 30th Street	EB	LT	0.86	46.5	D	LT	0.94	58.7	Е	LT	0.99	68.6	Е					
Tenth Avenue @ 31st Street	WB									R	0.56	48.5	D					
Tenth Avenue @ 34th Street	WB									R	1.04	246.5	F					
Tenth Avenue @ 36th Street	EB					LT	0.29	104.6	F									
Tenth Avenue @ 37th Street	WB									LT	1.00	95.5	F					
Tenth Avenue @ 38th Street	EB									TR	1.00	91.0	F					
	WB									T	1.00	1118.0	F					
Tenth Avenue @ 39th Street										R	1.00	655.8	F					
	NB									LT	1.00	127.2	F					
Tenth Avenue @ 40th Street	EB									LT	0.25	54.3	F					
	NB									TR	1.00	120.0	F					
Tenth Avenue @ 41st Street	WB									T	1.00	423.6	F					
	NB		4.05	0010	_		4	001 =	_	L	1.00	228.4	F		0.07	04.0		
To all Access 0 40 10:	EB	LT	1.05	284.0	F	LT	1.04	261.5	F	LT	1.01	124.7	F	LT	0.97	81.6	F	
Tenth Avenue @ 42nd Street	WB					TR	1.03	182.1	F	T (LnT)	1.00	708.0	F	TR	1.02	139.0	F	
Tenth Avenue @ 43st Street	WB					TR	0.40	75.9	Е	1 (LIII)	1.00	706.0	F					
		Т	0.45	51.7	D		0.10	70.0	_	Т	0.57	54.9	D					
Eleventh Avenue/ Twelfth Avenue	SB (11th)	TR	0.54	57.8	E					TR	0.78	72.3	E					
@ 22nd Street	NB (9A)		0.04	57.0	_					T	1.02	93.7	F					
Eleventh Avenue @ 24th Street	SB	TR	1.03	137.9	F	TR	1.04	141.5	F		1.02	55.7						
Eleventh Avenue @ 26th Street	EB	TR	1.00	87.4	F	TR	0.85	55.7	E	TR	1.05	277.2	F					
		111	1.00	U1.7		111	0.00	55.7			1.00	2.1.2						

¹ This table has been revised for the FEIS.

Table 17-13 (cont'd) Existing Conditions Intersection Approach Movements Operating at LOS Mid-D, E, or F

		AM				Midday				PM					Sat	urday	
			V/C	Delay			V/C	Delay			V/C	Delay			V/C	Delay	
Intersection	Approach	Movt.	Ratio	Sec/Veh	LOS	Movt.	Ratio	Sec/Veh	LOS	Movt.	Ratio	Sec/Veh	LOS	Movt.	Ratio		LOS
Eleventh Avenue @ 38th Street	NB									TR	1.00	388.4	F				
Eleventh Avenue @ 39th Street	NB									T	1.00	428.4	F				
Ziotoniii 7 ivende C eeur euret	EB									TR	0.85	61.4	Ē				
Eleventh Avenue @ 40th Street	NB									R	1.00	283.2	F				_
Lieveniii Avende @ 40tii Street	SB									L	1.00	147.4	F				_
Flavorth Average @ 44at Ctrast																	-
Eleventh Avenue @ 41st Street	SB									T (LnT)	1.00	118.2	F				
	WB									<u> </u>	0.33	113.9	F				
Eleventh Avenue @ 42nd Street										LT	0.33	67.1	Е				4
	SB									LT (LnT)	1.00	153.1	F				
Eleventh Avenue @ 43rd Street	SB									T (LnT)	1.00	169.6	F				
Eleventh Avenue @ 44th Street	SB									T (LnT)	1.00	170.6	F				
Eleventh Avenue @ 54th Street	EB	LTR	1.04	237.5	Е												
	EB	TR	1.00	72.6	E					TR	0.94	67.0	E				
Eleventh Avenue @ 57th Street	MD	L	0.86	54.7	D	L	0.93	65.1	Е					L	0.90	55.6	Е
	WB													TR	1.02	153.2	F
		L	0.45	65.5	Е					L	0.58	66.5	Е	L	0.47	46.0	D
	WB	LTR	0.48	67.0	E	LTR	0.47	46.8	D	LTR	0.58	67.3	E	LTR	0.46	46.0	D
Twelfth Avenue @ 24th Street	.,,	R	0.48	67.9	E	R	0.48	47.4	D	R	0.58	68.2	E	R	0.47	47.0	D
		1	1.05	341.9	F	1	0.76	88.4	E	L	0.73	99.1	F	1	1.05	322.8	F
	SB		1.00	541.8	Г	T	1.00	48.6	D	L	0.13	33. I	Г		1.00	J22.0	-
Twolfth Avenue @ 20th Ctt	WD	LD	1.05	617.4	-					LD	1.04	202.7	_	LD	0.02	60.0	
Twelfth Avenue @ 29th Street	WB	LR	1.05	617.1	F	LR	0.89	80.6	E	LR	1.04	283.7	F	LR	0.83	69.0	E
Twelfth Avenue @ 30th Street	SB	<u> </u>	1.05	313.8	F	L	1.05	275.6	F	<u> </u>	1.05	326.4	F	L	0.84	87.8	F
	WB	L	0.52	62.1	Е					L	0.44	58.6	Е				
Twelfth Avenue @ 34th Street		LR	0.52	62.3	Е					LR	0.45	59.0	Е				
	SB	L	0.52	60.9	E	L	0.65	58.7	E	L	1.05	317.8	F	L	0.81	68.2	E
	EB	LR	0.12	52.5	D					LR	0.24	60.4	Е				
Twelfth Avenue @ 37th Street	EB	R	0.12	53.1	D					R	0.25	61.9	Е				
Twenth Avenue @ 37th Street	NB	L	0.10	63.7	Е	L	0.19	50.3	D	L	0.29	72.4	Е	L	0.25	51.5	D
	SB	TR	1.05	108.7	F									TR	1.05	106.4	F
	EB									LR	0.06	47.3	D				
		L	0.07	50.5	D					L	0.06	59.7	E				
Twelfth Avenue @ 41st Street	WB	R	0.30	54.6	D					R	0.19	61.7	E				
TWEITHT AVEING & 413t Officet	NB	T	1.01	95.7	F					- 1	0.13	01.7					_
	SB	†	1.05	80.4	F									Т	1.03	77.4	Е
		-								LTD	0.00	40.7		ı	1.03	77.4	
	EB	LTR	0.04	46.2	D					LTR	0.08	46.7	D				_
	WB	L	0.33	52.6	D					L	0.64	64.3	E				
Twelfth Avenue @ 42nd Street										R	0.65	50.0	D	_			
	NB					Т	0.97	49.6	D					Т	1.05	111.0	F
	SB	L	0.51	55.0	D					L	0.94	106.6	F	L	0.60	46.5	D
Twelfth Avenue @ 43th Street	WB	LTR	0.57	61.0	Е					LTR	0.67	65.3	E				
i wellili Avellue @ 45ill Sileet	NB	L	0.95	159.2	F	L	0.31	58.4	Е	L	0.16	68.3	Е	L	0.10	52.4	D
Twelfth Avenue @ 44th Street	SB	L	0.65	59.1	Е	L	0.53	45.0	D	L	0.55	61.6	Е	L	0.59	46.9	D
	EB	LTR	0.27	56.4	Е					LTR	0.16	51.8	D				
Twelfth Avenue@ 46th Street	NB	TR	0.83	54.9	D												
	SB	L	0.88	101.5	F	L	0.90	112.3	F	L	1.05	356.8	F	L	1.04	300.2	F
	WB	R	0.43	57.9	E					R	0.58	64.8	E				
Twelfth Avenue @ 54th Street		L	0.50	59.1	E					L	0.42	57.2	E				
	SB	T	1.04	72.4	E					_	V. 12	J7.2	_				
	NB	Ť	0.98	52.9	D												_
Twelfth Avenue @ 56th Street	SB	_	0.90	52.8	U		0.99	83.3	F	,	0.93	211.0	F	,	0.68	51.4	D
Twolfth Avenue @ 57th Chart						L L	0.99	03.3	Г	_ L		311.0		L	0.08	51.4	_ U
Twelfth Avenue @ 57th Street	WB	-	0.00	F4.0	_					R	0.51	191.3	F				
Broadway @ 35th Street	WB	_	0.89	51.8	D					TD	0.91	55.3	E				
Dyer Ave @ 31st Street	SB									TR	0.88	46.6	D				4
	WB									R	1.00	696.9	F				
Dyer Ave @ 34th Street		L	0.80	61.5	Е					L	0.73	54.3	D				
5,017110 @ 04111 011001	SB	LR	0.79	60.9	E					LR	0.74	56.0	Е				
		R	0.80	65.4	Е					R	0.74	57.7	Е				
Dyer Ave @ 35th Street	WB									LTR	0.55	146.6	F				
	EB	TR	0.48	57.5	Е	TR	0.43	54.7	D	TR	0.51	56.1	D				
Dyer Ave @ 36th Street	NB									TR	1.00	285.2	F				
Dyer Avenue @ 41st Street	WB									TR	1.00	378.3	F				
Dyer Avenue @ 42nd Street	WB									T (LnT)	1.00	1171.0	F				
Notes:										. \)			<u> </u>				

Notes:
Shading indicates movement not at LOS Mid-D, E, or F.
LOS = Level of Service
EB - Eastbound, WB - Westbound, NB - Northbound, SB - Southbound
L - Left, T- Through, R - Right, DefL - De Facto Left Turn
(LnT) - Lincoln Tunnel approach lane(s)

PARKING SUPPLY AND UTILIZATION

Existing parking conditions were evaluated by conducting a field inventory of on-street parking regulations and off-street public parking facilities within the parking study area defined below. The future parking demand associated with the Proposed Actions is expected to be concentrated in the vicinity of the Development Site with little demand generated by the Additional Housing Sites. Further, it is expected that this demand would be primarily accommodated off-street. Therefore, the on-street parking assessment involved only an inventory of the parking study area's on-street parking regulations, whereas detailed surveys of supply and utilization were conducted at the area's off-street parking facilities.

ON-STREET PARKING

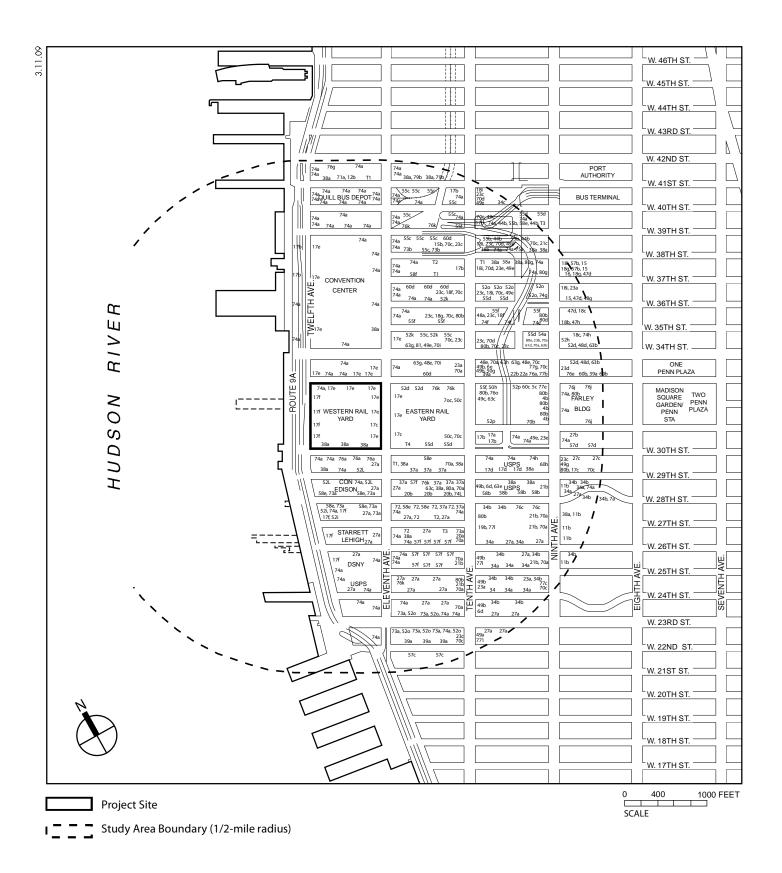
On-street parking regulations within ½-mile of the Development Site were surveyed in August and September 2008 as shown on Figure 17-19. Most of the parking study area's curbside regulations restrict weekday daytime usage to commercial loading and unloading activities, authorized vehicles or prohibit parking overall. Unrestricted parking, with the exception of street cleaning regulations, is permitted along a limited number of blocks southeast of the Development Site, such as along West 29th Street between Eleventh and Tenth Avenues, and West 26th, West 25th, and West 24th Streets between Ninth and Tenth Avenues. However, these spaces serve mainly for storage of area residents' vehicles and little weekday parking turnover occurs.

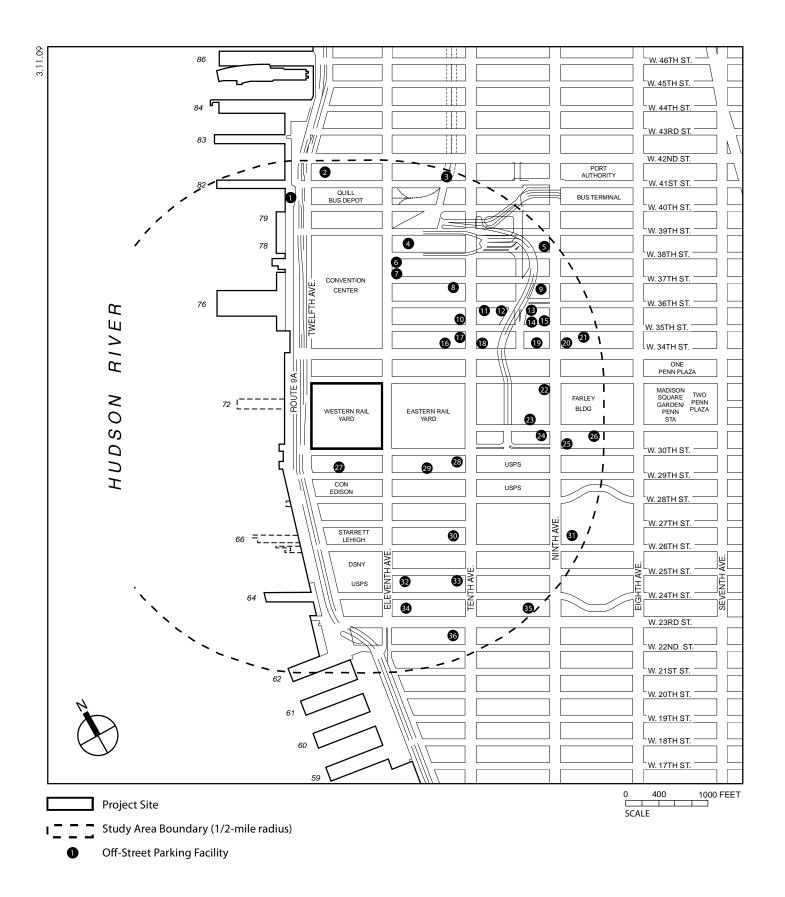
OFF-STREET PARKING

In June and November of 2008, an inventory was conducted of licensed capacities at public parking lots and garages within ½-mile of the Development Site and of their approximate utilization during weekday midday and overnight periods. Within this study area, 36 facilities with an overall capacity of approximately 5,200 daytime and 3,800 overnight spaces were identified, located as shown in Figure 17-20 and detailed in Table 17-14. Based on the estimated parking utilization shown in Table 17-14, the area's parking demand is the lowest overnight when approximately 35 percent of the overnight spaces are utilized and peaks during midday at approximately 80 percent of the area's overall off-street parking supply, leaving a midday residual supply of approximately 1,000 off-street parking spaces.

STUDY AREA ACCIDENT PATTERNS

Accident data for intersections within an area bounded on the north by West 37th Street, on the south by West 26th Street, on the east by Seventh Avenue and on the west by Twelfth Avenue, generally encompassing the pedestrian study area for the Development Site, were obtained from the NYCDOT. This information provides the most recent three years of available accident data, from January 1, 2006, to December 31, 2008 and is presented in Table 17-15. The table provides, by intersection, the total number of accidents, the total number of reportable accidents (involving fatality, injury or more than \$1,000 in property damage), the number of fatalities and injuries during the study period, as well as a yearly breakdown of pedestrian- and bicycle-related injuries or fatalities at each intersection.





Мар		Мар	
	Parking Regulation	No.	Parking Regulation
	1/2 Hour Meter Parking 8am-10pm, Except Sun		No Parking 8am-8:30am Tues & Fri
2	1 Hour Meter Parking		No Parking 8am-8:30am, Except Sun
	1 Hour Meter Parking 8am-7pm, Except Sun 1 Hour Meter Parking 8am-7pm, Including Sun		No Parking 8am-Midnight, Except Sun No Parking 8:30am-9am
	1 Hour Meter Parking 9am-4pm Mon-Fri		No Parking 8:30am-9am, Monday- Saturday
	1 Hour Meter Parking 9am-4pm Mon-Sat		No Parking 8:30am-9am, Except Sun
	1 Hour Meter Parking 9am-4pm Mon-Sat, 9am-7pm Sun	30d	No Parking 8am-9:30am Tues-Fri
	1 Hour Meter Parking 9am-4pm Sat		No Parking 8am-9:30am Tues & Fri
4e	1 Hour Meter Parking 9am-4pm, Except Sat		No Parking 8:30am-10am, Mon & Thurs
	1 Hour Meter Parking 9am-4pm, Except Sun		No Parking 8:30am-7pm
4g 5a	1 Hour Meter Parking 9am-4pm, Including Sun 1 Hour Limit, Meter Parking 9am-7pm Mon-Sat		No Parking 8am-10pm, 1 Hour Parking 10am-10pm, Except Sun No Parking 8am-10pm, 1 Hour Parking 10am-10pm, Including Sun
5b	1 Hour Meter Parking 9am-7pm Sat-Sun	32a	No Parking 9am-10:30am Mon & Thur
5c	1 Hour Meter Parking 9am-7pm, Including Sun		No Parking 9am-10:30am Mon-Thurs
5d	1 Hour Meter Parking 9am-7pm, Except Sunday		No Parking 9am-10:30am Tues & Fri
6a	1 Hour Meter Parking 10am-4pm Mon-Fri, 9am-7pm Sun & Sat		No Parking 10am-4pm, Except Sun
	1 Hour Meter Parking 10am-4pm Mon-Sat, 9am-7pm Sun		No Parking 10am-4pm, Mon-Fri
	1 Hour Meter Parking 10am-4pm, Except Sun		No Parking 10am-7pm Mon-Fri
	1 Hour Parking 10am-4pm Mon-Fri, 9am-7pm Sat		No Parking 10-11:30am Tues & Fri
6e 7a	1 Hour Meter Parking, 10am-4pm Mon-Sat 1 Hour Meter Parking 10am-7pm Mon-Fri, 9am-7pm Sun & Sat		No Parking 11am-12:30pm Mon & Thur No Parking 11am-12:30pm Tue & Fri
	1 Hour Parking 10am-7pm Mon-Fri, 9am-7pm Sat		No Parking 11am-6pm
	1 Hour Meter Parking 10am-7pm, Except Sat		No Parking 4pm-7pm
	1 Hour Meter Parking 4pm-7pm		No Parking 4pm-7pm Mon-Fri
9	1 Hour Meter Parking 10am-10pm, Including Sun		No Parking 4pm-7pm, Except Sunday
	2 Hour Meter Parking 8am-7pm, Including Sun	35d	No Parking 4pm-Midnight, Including Sun
	2 Hour Meter Parking 8:30am-7pm, Including Sun		No Parking 6pm-Midnight
10c	2 Hour Meter Parking 8:30am-7pm, Except Sun		No Parking 8pm-6am, Mon-Fri
	2 Hour Meter Parking 9am-7pm Sat & Sun 2 Hour Meter Parking 9am-7pm, Except Sun		No Parking 8pm-6am, Including Sun No Parking Anytime
	2 Hour Meter Parking 9am-7pm, Except Sun 2 Hour Meter Parking 9am-7pm, Including Sun		No Parking Anytime No Parking Anytime, Except Auth. Fire Dept.
	2 Hour Meter Parking 9am-4pm, Except Sunday		No Parking Anytime, Except Taxis
	2 Hour Parking 9am-7pm, Except Sunday		No Parking Anytime, Except Taxis/ FHV's
12a	2 Hour Meter Parking 10am-7pm, Except Sun	39a	No Standing
	2 Hour Metered Parking 10:30am-6:00pm, Except Sun		No Standing, Except Trucks Loading & Unloading
13	6 Hour Meter Parking 6am-Midnight, 8am-Midnight Sun		No Standing, Except Trucks Loading & Unloading, Except Sun
14a	6am-Midnight Meter Parking	39d	No Standing, Except Trucks Loading & Unloading, 3 Hour Limit
	6pm-Midnight Meter Parking, Including Sat & Sun		No Standing Mon-Fri, Except Trucks Loading & Unloading, 3 Hour Time Limit
	8am-Midnight Meter Parking 8am-Midnight Night Meter, Including Sat, Sun		No Standing, Except Commercial Vehicles, Metered Parking, 3 Hour Limit No Standing, Except Commercial Vehicles, Metered Parking, 3 Hour Limit, Except Sunday
	8pm-Midnight Meter Parking, Including Sat & Sun		
	Muni Meter	39i	No Standing, Except Trucks Loading & Unloading, 4 Hour Limit
	No Parking		No Standing, Taxi Stand
	No Parking Posted	40	No Standing 12am-6am
	No Parking Vehicles	41	No Standing 1am-3am, Except Sun
	No Parking Tow Away Zone		No Standing 2am-5pm Mon-Fri, Except Trucks Loading or Unloading,
	No Parking Truck Waiting Line		No Standing 2am-6pm Sat, Except Trucks Loading or Unloading, 3 Hour Limit
	No Parking Midnight-3am Tues & Fri No Parking, Except Construction		No Standing 3am-7pm No Standing 4am-Midday
	No Parking Loading Zone		No Standing 4am-8pm, Sat & Sunday
	No Parking 2am-6am Mon-Fri	45	No Standing 5am-8pm, Except Authorized Vehicles, Except Sun
	No Parking 2am-6am Sat		No Standing 6am-6pm Mon-Fri
	No Parking 2am-6am Sun	46b	No Standing 6am-6pm, Except Trucks Loading & Unloading
	No Parking 2am-6am Fri	46c	
	No Parking 2am-6am Mon, Sat	47a	No Standing 6am-7pm, Mon-Fri
	No Parking 2am-6am Mon, Thur, Sat		No Standing 6am-7pm Mon-Fri, 3 Hour Limit
	No Parking 2am-6am Mon, Wed, Fri No Parking 2am-6am Mon, Wed, Sat		No Standing 6am-7pm Mon-Fri, Except Trucks Loading & Unloading No Standing 6am-7pm Mon-Fri, Except Commercial Vehicles, Metered Parking, 3 Hour Limit
	No Parking 2am-6am Tue, Thur, Sat		No Standing 6am-7pm, Mon-Fri, Except Trucks and Vans with Commercial Plates, 3 Hour Limit
	No Parking 2am-6am Tue, Thurs, Sun		No Standing 6am-7pm, Mon-Fri, Except Commercial Vehicles, 4 Hour Limit
	No Parking 2am-6pm Mon, Wed, Fri	47g	No Standing 6am-7pm Mon-Fri, Except Trucks Loading & Unloading, 4 Hour Limit
19b	No Parking 2am-6pm Tue, Thur, Sun	47h	No Standing 6am-7pm Mon-Fri, Except Commercial Vehicles, Metered Parking, 4 Hour Limit
	No Parking 2am-6pm Sat	47i	
	No Parking 2am-6pm Sun		
	No Parking 2am-6pm, Including Sat, Except Trucks Loading Unloading, 3 Hour Limit No Parking 6am-4pm, Mon-Fri	48b 48c	No Standing 7am-10am & 4pm-10pm, Including Sun No Standing 7am-10am & 4pm-7pm, Except Sun & 10am-4pm Mon-Sat
	No Parking 6am-4pm, Mon-Fri No Parking 6am-6pm, Mon-Fri		No Standing 7am-10am & 4pm-7pm, Except Sun & 10am-4pm Mon-Sat
	No Parking dam-opm, won-en		No Standing, 7am-10am & 4pm-7pm, Except Sun No Standing, 7am-10am
	No Parking 7am-4pm Mon-Fri		No Standing 7am-10am Mon-Fri
21c	No Parking 7am-4pm, Except Sun	49b	No Standing 7am-10am, 4pm-7pm, Mon-Fri
21d	No Parking 7am-4pm School Days	49c	No Standing 7am-10am, 4pm-7pm, Mon-Sat
	No Parking 7am-6pm, School days		No Standing 7am-10am Mon, Thurs, Fri
	No Parking 7am-6pm, School days, Except Faculty Vehicles		No Standing 7am-10am, Except Sun
	No Parking 7am-7pm Mon-Fri No Parking 7am-7pm, Mon-Sat	49f 49g	No Standing 7am-10pm, Including Sun, Bus Lane No Standing 7am-10pm, Except Sun
			•
23c	No Parking 7am-7pm, Except Sun	50a	No Standing 7am-3pm Except Sunday, Except Trucks Loading & Unloading, Other Times No Standing
23d	No Parking 7am-7pm	50b	No Standing 7am-4pm
24a	No Parking 7:30-8am	50c	No Standing 7am-4pm, Except Trucks Loading & Unloading, Except Sun
	No Parking 7:30am-8am Mon-Fri		No Standing 7am-4pm Schools Days, Except M.I.U. Vehicles
	No Parking 7:30-8am, Except Sun		
	No Parking 7:30-8am, Including Sun	50f	No Standing, 7am-4pm, Except Sunday, Except Commercial Vehicle, Metered Parking, 3 Hour Limit
	No Parking 7am-10am Mon-Fri		No Standing, 7am-4pm,School Days
25b	No Parking 7am-Midnight	50h	No Standing 7am-3pm Except Sunday, Except Trucks Loading & Unloading, Other Times No Standing
25n	No Parking 7am-Midnight, Except Sun	51a	No Standing 7am-6pm Mon-Fri
	No Parking Ram-6am Mon-Fri		No Standing 7am-6pm Mon-Sat
27a	No Parking 8am-6pm Mon-Fri		No Standing 7am-6pm, Except Commercial Vehicles, 3 Hour Limit
27b	No Parking 8am-6pm, Mon-Sat	51d	No Standing 7am-6pm, Except Trucks Loading & Unloading
	No Parking 8am-6pm, Except Sun		No Standing 7am-7pm Mon-Fri
	No Parking 8am-6pm Tue & Thur	52b	No Standing 7am-7pm Mon-Sat
. 28a	No Parking 8am-7pm Mon, Thurs, Fri		No Standing 7am-7pm, Except Sun No Standing 7am-7pm, Including Sun
28b	No Parking 8am-7pm, Except Sunday No Parking 8am-8:30am Mon-Fri, 1 Hour Parking 8:30am-7pm, Including Sun		No Standing 7am-7pm, Except Sun, Except Commercial Vehicles, 3 Hour Limit

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50. No. 19 Standing Turn, Proc. Proc. Standing Surf. Procept Transis Leading & Unificating 1. All Standing Agrinas. Except Annothrous of Verbicas. Proceed Standing Associations of Control C			74d	No Standing Anytime, Except Authorized Vehicle
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509 No Standing Anyther Xen Pum Mor Set, Except Trunks Loading or Uninotedry No Standing Anyther Xen Pum Mor Set, Except Trunks No Standing Anyther Xen Pum Mor Set, Except Trunk No Standing Anyther Xen Pum Mor Set, Except Trunk No Standing Anyther Xen Pum Mor Set, Except Trunk No Standing Anyther Xen Pum Mor Set, Except Trunk No Standing Anyther Xen Pum Mor Set, Except Trunk No Standing Anyther Xen Pum Mor Set, Except Trunk No Standing Anyther Xen Pum Mor Set, Except Trunk No Standing Anyther Xen Pum Mor Set, Except Trunk No Standing Anyther Xen Pum Mor Set, Except Trunk No Standing Anyther Xen Pum Mor Set, Except Trunk No Standing Anyther Xen Pum Mor Set, Except Trunk No Standing Anyther Xen Pum Mor Set, Except Anythroad Vehicles No Standing Anyther Xen Pum Mor Set, Except Anythroad Vehicles No Standing Anythroad Vehicles No			75a	No Standing Fire Zone
Sam An Standing Am-Tyme. Except Study. Except Touck Sam No Standing Am-Tyme. Except Study Loading or Utilisating, Except Study Sam No Standing Am-Indian Except Study Sam No Standing Except Authorised Vehicles Sam No Standing Except Authorised Vehicles Sam No Standing Am-Indian Except Study Sam No Standing Except Authorised Vehicles Sam No Standing Am-Indian Except Study Sam No Standing Except Authorised Vehicles Sam No Standing Except Authorised Vehicles Sam Standing Stand Except Standing Stan Sam Standing Standing Except Authorised Vehicles Sam Standing Standing Except Authorised Vehicles Sam Standing Except Authorised Vehicles Sam Standing Standing Except Authorised Vehicles Sam Standing Standing Except Authorised Vehicles, NPTD Sam Standing Except Authorised Vehicles, Fire Zone Sam Standing Sam - Span Standing Except Authorised Vehicles, Fire Zone Sam Standing Sam - Span Standing Except Authorised Vehicles, Fire Zone Sam Standing Sam - Span Standing Except Sam Standing Except Authorised Vehicles, Fire Zone Sam Standing Sam - Span Standing Except Authorised Vehicles, Fire Zone Sam Standing Sam - Span Standing Sam - Span Standing Except Sam Standing Except Authorised Vehicles, Fire Zone Sam Standing Sam - Span Sta	52u	No Standing Anytime 7am-7pm Mon-Sat, Except Trucks Loading or Unloading	75b	No Standing Hotel Loading Zone
Sam An Standing Am-Tyme. Except Study. Except Touck Sam No Standing Am-Tyme. Except Study Loading or Utilisating, Except Study Sam No Standing Am-Indian Except Study Sam No Standing Except Authorised Vehicles Sam No Standing Except Authorised Vehicles Sam No Standing Am-Indian Except Study Sam No Standing Except Authorised Vehicles Sam No Standing Am-Indian Except Study Sam No Standing Except Authorised Vehicles Sam No Standing Except Authorised Vehicles Sam Standing Stand Except Standing Stan Sam Standing Standing Except Authorised Vehicles Sam Standing Standing Except Authorised Vehicles Sam Standing Except Authorised Vehicles Sam Standing Standing Except Authorised Vehicles Sam Standing Standing Except Authorised Vehicles, NPTD Sam Standing Except Authorised Vehicles, Fire Zone Sam Standing Sam - Span Standing Except Authorised Vehicles, Fire Zone Sam Standing Sam - Span Standing Except Authorised Vehicles, Fire Zone Sam Standing Sam - Span Standing Except Sam Standing Except Authorised Vehicles, Fire Zone Sam Standing Sam - Span Standing Except Authorised Vehicles, Fire Zone Sam Standing Sam - Span Standing Sam - Span Standing Except Sam Standing Except Authorised Vehicles, Fire Zone Sam Standing Sam - Span Sta	524	No Standing Apytime 7am-7am Mon-Eri, Except Commercial Vehicles, Metered Parking 3 Hour Limit	75.0	No Standing Rus Lavoyer Zone
Sale No. Standing Peru Peter, Escopt Stan 75e No. Standing, Peter Judy Standing, Pete				
Sign No Standing Tam degm. Except Touchs Loading or Unbesting. Except Parling, 3 Hour Limit 769 No Standing, Except Charged Vehicles.			75d	No Standing Access a Ride Bus Stop
558 No Standing Zam-Bolm, Except Commercial Vehicles, Mestered Parking, 3 Hour Limit 40 No Standing Zam-Middingst. Ecopt Toxick Loading & Unloading, Mon-Frit 50 Standing Zam-Middingst, Ecopt Toxick Loading & Unloading, Mon-Frit 50 Standing, Zam-Middingst, Ecopt Toxick Loading & Unloading, Mon-Frit 50 No Standing, Zam-Middingst, Ecopt Toxick Loading & Unloading, Mon-Frit 50 No Standing, Zam-Middingst, Ecopt Toxick Loading & Unloading, Mon-Frit 50 No Standing, Zam-Middingst, Ecopt Toxick Loading & Unloading, Mon-Frit 50 No Standing, Zam-Middingst, Ecopt Toxick Loading of Unloading, Ecopt Standing, Ecopt Authorized Vehicles, NYPD 50 No Standing Zam-Middingst, Industrial Standing, Ecopt Standing, Ecopt Standing, Ecopt Authorized Vehicles, NYPD 50 No Standing Zam-Toxic, How-Fast 50 No Standing Zam-Toxic, H			75e	No Standing, Pick Up & Drop off Only
Standing Tam-Mosignit Took No Standing Tam-Mosignit Except Stunday, Ex	53b	No Standing 7am-8pm, Except Trucks Loading or Unloading, Except Sun	76a	No Standing, Except Authorized Vehicles
Searching Tam Melringht, Except Trucks Loading & University (No. 19 Standing), Except Authorized Potice Department			76b	No Standing, Except City Authorized Vehicles
Searching Search Ambient Search				
Search Standing Sam-Opin Standing Sam Stand	54b	No Standing 7am-Midnight, Except Trucks Loading & Unloading, Mon-Fri	76d	No Standing, Except Authorized Police Department
558 No Standing Barn-Opm Mon-Fil 560 No Standing Barn-Opm Mon-Fil 570 No Standing Standing Standing Standing Men Standing Standing Standing Men Standing Standi	54c	No Standing, 7am-Midnight, Except Sunday, Except Commercial Vehicles, Metered Parking, 3 Hour Limit	76e	No Standing, Except Authorized Vehicles, NYPD
558 No Standing Barn-Opm Mon-Fil 560 No Standing Barn-Opm Mon-Fil 570 No Standing Standing Standing Standing Men Standing Standing Standing Men Standing Standi	54d	No Standing 7am-Midnight, including Sun	760	No Standing Except Authorized Vehicles NYPD
Signaring Barn-Opm Mon-Fri Sol Mo Standing Barn-Opm Mon-Fri Sol Mo Standing Barn-Opm Mon-Fri Sol Mo Standing Barn-Opm Mon-Fri Sol Montage Barn-Opm Montage Mo	55a	No Standing Pam-Midnight, including Sun	76f	No Standing, Except Authorized Vehicles, Antrak Police Department
556 No Standing San-Opin, Nor-Start 567 No Standing San-Opin, Nor-Start 568 No Standing San-Opin, Including Sun 568 No Standing San-Opin, Including Sun 569 No Standing San-Opin, Including Sun 560 No Standing San-Opin, Including Sun 560 No Standing San-Opin, Including Sun 560 No Standing San-Opin, Include Coding & Uniceding Except Sun 560 No Standing San-Opin, Include Coding & Uniceding Except Sun 560 No Standing San-Opin, Include Coding & Uniceding Except Sun 560 No Standing San-Opin				No Standing Except Authorized Vehicles Fire Zone
Sear Annage Sam-Opin, Including Sun Standing Sam-Opin, Including Sam-Opin Standing Sam-Opin, Including Sam-Opin, Incl	55c	No Standing 8am-10nm Mon-Sat	76h	No Standing Event Authorized Vehicles II S Senate
See No Standing Sam-10gm. Floury Parking Sam-10gm. Except Trucks Loading & Unloading, Except Sun				
565 No Standing Sam-10pm, Except Trucks Loading & Unloading Coopt Authorized Vehicles, N.Y. Press License Plate Consul*Oplomatic Systems of Consul* A St. Diplomat A & D. Dipl			76i	No Standing Event Authorized Vehicles LLS Mail
Standing, 8am-lpm Sal & Sun, Except Taxis, Other Times No Standing 786 No Standing Except Authorized Vehicles, Consul-A & D. Diplomat A & D. Diplomat A & D. Diplomat A & D. Diplomat B A S. Discours Plate Consult/Diplomatic Guyana 76m No Standing Except Diplomatic Standard Plate 75m No Standing Except Diplomatic Standard Plate 75m No Standing Except Standard Standard Plate 75m No Standing Sam-dpm Except Standard Plate 75m No Standing Sam-dpm Except Standard Plate 75m No Standard Sam-dpm Except Standard Plate 75m No Standing Sam-dpm Except Standard Plate 75m No Standard Sam-dpm Except Standard Plate 7				No Standing, Except Authorized Vehicles, N.V. Press License Plates
Solitariting Sam-Agen School Same				
Sea Along Bam-4pm 76m No Standing Bam-4pm 76m No Standing Except School Busses 76m No Standing Bam-4pm 50m No Standing Bam-4pm 50m	55g	No Standing, 8am-1pm Sat & Sun, Except Taxis, Other Times No Standing	761	
Searching Barn-4pm School Days, Except School Busses 76n No Standing Barn-4pm, Except Sun 760 No Standing Barn-6pm, Except Sun, Except Commercial Vehicles, 3 Hour Limit 77a 11 Hour Limit Relief Stand 77b 7b	56a	No Standing 8am-4pm	76m	
578 No Standing Sam-Spm, Except Sun Fixed Standard Stand	56b	No Standing 8am-4pm School Days, Except School Busses		No Standing, Except Taxis
576 No Standing Sam-6pm, Except Sun, Except Commercial Vehicles, Metered Parking, 3 Hour Limit, Relief Stand 576 No Standing Sam-6pm, Except Sun, Except Commercial Vehicles, Metered Parking, 3 Hour Limit 577 No Standing Sam-6pm, Except Trucks Loading & Unloading 578 No Standing Sam-6pm, Except Sun, Except Commercial Vehicles, Metered Parking, 3 Hour Limit 579 No Standing Sam-6pm, Except Sun, Except			76o	No Standing 3pm-7am N.Y. Press License Plates
576 No Standing Sam-6pm, Except Sun, Except Commercial Vehicles, Metered Parking, 3 Hour Limit, Relief Stand 576 No Standing Sam-6pm, Except Sun, Except Commercial Vehicles, Metered Parking, 3 Hour Limit 577 No Standing Sam-6pm, Except Trucks Loading & Unloading 578 No Standing Sam-6pm, Except Sun, Except Commercial Vehicles, Metered Parking, 3 Hour Limit 579 No Standing Sam-6pm, Except Sun, Except	57b	No Standing 8am-6pm, Except Sun, Except Commercial Vehicles, 3 Hour Limit	77a	1 Hour Limit Relief Stand, Taxi/FHV
Fig. No. Standing Bam-6pm, Except Trucks Loading & Unloading 77d 1 Hour Parking Sam-4pm, Except Sun 77k 1 Hour Parking Bam-6pm, Except Sun 77k 1 Hour Parking Bam-6pm Mon-Fin, Bam-7pm Sat 77k 1 Hour Parking Bam-6pm Mon-Fin, Bam-7pm Sat 77k 1 Hour Parking Bam-6pm Mon-Fin, Except Authorized Vehicle, Except Board of Education (BOE) 77k 1 Hour Parking, Bam-7pm, Except Sunday 7 Hour Parking, Bam-7pm, Except Sunday	57c	No Standing 8am-6pm Mon-Fri, Except Commercial Vehicles, Metered Parking, 3 Hour Limit	77b	Taxi, 1 Hour Limit, Relief Stand
577 No Standing Bam-Spm Koper Sun. Except Trucks Loading or Unloading 777 No Standing Bam-Spm Koper Sun. Except Sun. Except Trucks Loading & Unloading 777 No Standing Bam-Spm Kopm Mon. Thurs, Frif. Except Auth-Vehicles 777 No Standing Bam-Spm Mon-Frif. Except Authorized Vehicles, U.S. Mail 777 No Standing Bam-Spm Mon-Frif. Except Authorized Vehicles, Except Board of Education (BOE) 777 No Standing Bam-Spm Mon-Frif. Except Authorized Vehicles, Except Board of Education (BOE) 777 No Standing Bam-Spm Mon-Frif. Except Authorized Vehicles, Except Board of Education (BOE) 777 No Standing Bam-Spm Mon-Frif. Except Authorized Vehicles, Except Board of Education (BOE) 778 No Standing Bam-Spm Mon-Frif. Except Authorized Vehicles, Except Board of Education (BOE) 779 No Standing Bam-Spm, Mon-Frif. Except Authorized Vehicles, Except Board of Education (BOE) 779 No Standing Bam-Spm, Mon-Frif. Except Authorized Vehicle, Dept of Education 779 No Standing Bam-Spm, Mon-Frif. Except Sun. 770 No Standing Bam-Spm, Mon-Frif. Except Commercial Vehicle, Metered Parking, 3 Hour Limit 770 No Standing Bam-Spm, Mon-Frif. Except Commercial Vehicles Metered Parking 3 Hour Limit 770 No Standing Bam-Spm, Mon-Frif. Except Sun. Except Commercial Vehicles Metered Parking 3 Hour Limit 770 No Standing Bam-Spm, Mon-Frif. Except Sun. Except Commercial Vehicles Metered Parking 3 Hour Limit 770 No Standing Bam-Spm, Mon-Frif. Except Sun. Except Commercial Vehicles Metered Parking 3 Hour Limit 770 No Standing Bam-Spm, Mon-Frif. Except Sun. Except Commercial Vehicles, Metered Parking 3 Hour Limit 770 No Standing Bam-Spm, Mon-Frif. Except Sun. Except Sun	57d	No Standing 8am-6pm, Except Sun, Except Commercial Vehicles, Metered Parking, 3 Hour Limit	77c	1 Hour Parking 8am - 7pm, Except Sun
577 No Standing Bam-Spm Koper Sun. Except Trucks Loading or Unloading 777 No Standing Bam-Spm Koper Sun. Except Sun. Except Trucks Loading & Unloading 777 No Standing Bam-Spm Kopm Mon. Thurs, Frif. Except Auth-Vehicles 777 No Standing Bam-Spm Mon-Frif. Except Authorized Vehicles, U.S. Mail 777 No Standing Bam-Spm Mon-Frif. Except Authorized Vehicles, Except Board of Education (BOE) 777 No Standing Bam-Spm Mon-Frif. Except Authorized Vehicles, Except Board of Education (BOE) 777 No Standing Bam-Spm Mon-Frif. Except Authorized Vehicles, Except Board of Education (BOE) 777 No Standing Bam-Spm Mon-Frif. Except Authorized Vehicles, Except Board of Education (BOE) 778 No Standing Bam-Spm Mon-Frif. Except Authorized Vehicles, Except Board of Education (BOE) 779 No Standing Bam-Spm, Mon-Frif. Except Authorized Vehicles, Except Board of Education (BOE) 779 No Standing Bam-Spm, Mon-Frif. Except Authorized Vehicle, Dept of Education 779 No Standing Bam-Spm, Mon-Frif. Except Sun. 770 No Standing Bam-Spm, Mon-Frif. Except Commercial Vehicle, Metered Parking, 3 Hour Limit 770 No Standing Bam-Spm, Mon-Frif. Except Commercial Vehicles Metered Parking 3 Hour Limit 770 No Standing Bam-Spm, Mon-Frif. Except Sun. Except Commercial Vehicles Metered Parking 3 Hour Limit 770 No Standing Bam-Spm, Mon-Frif. Except Sun. Except Commercial Vehicles Metered Parking 3 Hour Limit 770 No Standing Bam-Spm, Mon-Frif. Except Sun. Except Commercial Vehicles Metered Parking 3 Hour Limit 770 No Standing Bam-Spm, Mon-Frif. Except Sun. Except Commercial Vehicles, Metered Parking 3 Hour Limit 770 No Standing Bam-Spm, Mon-Frif. Except Sun. Except Sun	57e	No Standing 8am-6pm, Except Trucks Loading & Unloading		1 Hour Parking, 9am-4pm Saturday
57h No Standing Bam-Spm Mon-Fri, Except Authorized Vehicles, U.S. Mail 77h I Hour Parking, 9am-7pm, Except Sunday 77h No Standing Bam-8pm Mon-Fri, Except Authorized Vehicles, Except Board of Education (BOE) 77h I Hour Parking, 9am-7pm, Except Sunday 77h No Standing Bam-8pm Mon-Fri, Except Authorized Vehicles, Dept. of Education (BOE) 77h I Hour Parking, 10am-4pm, Except Sunday 77h No Standing Bam-7pm, Mon-Fri, Pam-7pm Mon-Fri, Pam-7pm Mon-Fri, 9am-7pm Sat 77h I Hour Parking, 10am-4pm Mon-Fri, 9am-7pm Sat 77h I Hour Parking, 10am-4pm, Mon-Fri, 9am-7pm Sat 77h I Hour Parking, 10am-7pm Mon-Fri, 9am-7pm Sat 77h I Hour Parking, 9am-7pm Mon-Fri, 9am-7pm Sat 77h I Hour Parking, 9am-7pm Mon-Fri, 9am-7pm Sat 77h 1 Hour Parking, 9am-7pm Mon-Fri, 9am-	57f	No Standing 8am-6pm Mon-Fri, Except Trucks Loading or Unloading	77e	1 Hour Parking 9am - 4pm, Except Sun
57h No Standing Bam-Spm Mon-Fri, Except Authorized Vehicles, U.S. Mail 77h I Hour Parking, 9am-7pm, Except Sunday 77h No Standing Bam-8pm Mon-Fri, Except Authorized Vehicles, Except Board of Education (BOE) 77h I Hour Parking, 9am-7pm, Except Sunday 77h No Standing Bam-8pm Mon-Fri, Except Authorized Vehicles, Dept. of Education (BOE) 77h I Hour Parking, 10am-4pm, Except Sunday 77h No Standing Bam-7pm, Mon-Fri, Pam-7pm Mon-Fri, Pam-7pm Mon-Fri, 9am-7pm Sat 77h I Hour Parking, 10am-4pm Mon-Fri, 9am-7pm Sat 77h I Hour Parking, 10am-4pm, Mon-Fri, 9am-7pm Sat 77h I Hour Parking, 10am-7pm Mon-Fri, 9am-7pm Sat 77h I Hour Parking, 9am-7pm Mon-Fri, 9am-7pm Sat 77h I Hour Parking, 9am-7pm Mon-Fri, 9am-7pm Sat 77h 1 Hour Parking, 9am-7pm Mon-Fri, 9am-	57g	No Standing 8am-6pm, Except Sun, Except Trucks Loading & Unloading	77f	
57 No Standing Bam-Spm Mon-Fri, Except Authorized Vehicles, Except Board of Education 77 1 Hour Parking, Sam-Spm Mon-Fri, Except Sunday 1 Hour Parking, 10am-4pm, Except Sunday 1 Hour Parking, 10am-4pm, Saturday 1 Hour Parking, 10am-4pm, Saturday 1 Hour Parking, 10am-4pm, Mon-Fri, Sam-7pm Sat 3 No Standing Bam-7pm, Except Sun 77m 1 Hour Parking, 10am-4pm, Mon-Fri, Sam-7pm Sat 3 No Standing Bam-7pm, Mon-Fri, Except Trucks Loading and Unloading 770 1 Hour Parking, 10am-7pm Sat 3 No Standing Bam-7pm, Except Sun, Except Trucks Loading and Unloading 770 1 Hour Parking, 10am-7pm Mon-Fri, Sam-7pm Sat 3 No Standing Bam-7pm, Except Sun, Except Trucks Loading and Unloading 770 1 Hour Parking, 10am-7pm Mon-Fri, Sam-7pm Sat 770 1 Hour Parking, 10am-7pm Sat 770 1 Hour Parking, 10am-7pm Mon-Fri, Sam-7pm Sat 770 1 Hour Parking, 10am-7pm Mon-Fri, Sam-7pm Sat 770 1 Hour Parking, 10am-7pm Sat 770 1 Hour Parking, 10am-7pm Sat 770	57h	No Standing 8am-6pm Mon, Thurs, Fri, Except Auth. Vehicles		
57K No Standing, 8am-9pm Mon-Fri, Except Authorized Vehicle, Dept. of Education 77, I How Parking, 10am-4pm, Except Sunday 588. No Standing 8am-7pm, Mon-Fri 77, I How Parking, 10am-4pm Mon-Fri, 8am-7pm, Stat 58. No Standing 8am-7pm, Except Sunday 588. No Standing 8am-7pm, Except Sunday 589. No Standing 8am-7pm, Except Sunday 589. No Standing 8am-7pm, Mon-Fri, Except Trucks Loading or Unloading 77, I How Parking, 10am-4pm, Mon-Fri, 8am-7pm, Stat 580. No Standing 8am-7pm, Except Sunday 589. No Standing 8am-7pm, Except Sun, Except Trucks Loading or Unloading 77, I How Parking, 10am-7pm, Mon-Fri, 10			77h	1 Hour Parking, 9am-7pm, Sat
58a No Standing 8am-7pm, Mon-Fri, Except Sun 58b No Standing 8am-7pm, Mon-Fri, Except Sun 58c No Standing 8am-7pm, Except Sun 58c No Standing 8am-7pm, Mon-Fri, Except Trucks Loading or Unloading 58d No Standing 8am-7pm Mon-Fri, Except Trucks Loading or Unloading 58d No Standing 8am-7pm Mon-Fri, Except Trucks Loading or Unloading 58d No Standing 8am-7pm, Mon-Fri, Except Trucks Loading or Unloading 58d No Standing 8am-7pm, Except Sun, Except Trucks Loading or Unloading 58d No Standing 8am-7pm, Except Sun, Except Trucks Loading and Unloading 58d No Standing 8am-7pm, Except Sun, Except Trucks Loading and Unloading 58d No Standing 8am-7pm, Except Sun, Except Trucks Loading and Unloading 58d No Standing 8am-8pm, Mon-Fri, Sun-Typm Mon-Fri, Sun-Typm 58d No Standing 8am-8pm, Mon-Fri 58d No				
1 Hour Parking, 10am-4pm Mon-Fri, 3am-7pm Sat	57k	No Standing, 8am-6pm Mon-Fri, Except Authorized Vehicle, Dept. of Education		1 Hour Parking, 10am-4pm, Except Sunday
58c No Standing Bam-Tym, Except Sun				
No Standing Barn-Tym, Mon-Fri, Except Commercial Vehicles, Metered Parking, 3 Hour Limit	58b	No Standing 8am-7pm, Mon-Fri	771	1 Hour Parking, 10am-4pm Mon-Fri, 9am-7pm Sat
See No. Standing Barn-Tym, Except Trucks Loading or Unloading 770 1 Hour Parking, 10am-Tym Mon-Fri, 3am-Tym Sat			77m	1 Hour Parking, 10am-4pm, Mon-Fri, 9am-7pm Sat & Sun
No Standing Bam-7pm, Except Sun, Except Trucks Loading and Unloading 77p 1 Hour Parking, 9am-7pm, Except Sunday 1 Hour Parking, 9am-7pm, Except Sunday 2 Hour Parking, 9am-7pm, Except Sunday 3 Lending Bam-8pm, Mon-Fri, Pick Up and Drop Off Only 78c 2 Hour Parking, 8am-7pm, Except Sunday 3 Lending Bam-8pm, Mon-Fri, Pick Up and Drop Off Only 78c 2 Hour Parking, 8am-7pm, Except Sunday 3 Lending Bam-8pm, Mon-Fri, Pick Up and Drop Off Only 78c 2 Hour Parking, 8am-7pm, Except Sunday 3 Lending Bam-8pm, Mon-Fri, Pick Up and Drop Off Only 78c 2 Hour Parking, 8am-7pm, Except Sunday 3 Lending Bam-10pm Mon-Sat, Except Commercial Vehicles, Metered Parking, 3 Hour Limit 79b No Stopping 80a Taxi Stand 80a Standing Bam-10pm, Mon-Sat, Except Truck Loading and Unloading 80a Taxi Stand 80b Snow Route, No Standing Bam-Midnight, Except Sun, Except Truck Loading and Unloading 80b Snow Route, No Standing Bam-Midnight, Except Sun 80c Snow Route, No Standing Bam-Midnight, Except Sunday 80c Snow Route, No Standing Bam-Midnight, Sunday 80c Snow Route, No Standing Bam-Parking, Snow Route, N				
No Standing 8am-7pm, Except Sun, Except Commercial Vehicles Metered Parking 3 Hour Limit			770	1 Hour Parking, 10am-/pm Mon-Fri, 9am-/pm Sat
Salanding Bam-8pm, Mon-Fri, Pick Up and Drop Off Only 78a 2 Hour Parking, 9am-7pm, Except Sunday				
No Standing 8am-9:30am & 1pm-7pm Mon-Fri, Pick Up and Drop Off Only 78c 2 Hour Parking 8:30am-7pm, Except Sunday 79c	58g	No Standing Cam-rpm, Except Sun, Except Commercial Venicles Metered Parking 3 Hour Limit	70a	2 Hour Parking Jam Zam Event Sunday
No Standing Barn-9:30am & 1pm-7pm Mon-Fri 79a No Stopping Anytime 79a No Stopping Anytime 79a No Stopping Anytime 79b No Standing Barn-10pm Mon-Sat, Except Commercial Vehicles, Metered Parking, 3 Hour Limit 79b No Standing Barn-10pm, Mon-Sat, Except Truck Loading & Unloading 80b Standing Barn-10pm, Except Sun, Except Trucks Loading and Unloading 80b Standing Barn-Hidnight, Except Sun 80c Sun Standing Barn-Hidnight, Except Sun 80c Sun Standing Barn-Hidnight, Including Sun 80c Sun Standing Barn-Hidnight, Except Sun 80c Sun Standing Barn-Hidnight Mon-Sat, Except Commercial Vehicles, Metered Parking, 3 Hour Limit 80c Sun Standing Barn-Hidnight, Except Sun 80c Sun Standing Barn-Hidnight Mon-Sat, Except Commercial Vehicles, Metered Parking, 3 Hour Limit 80c Sun Standing Barn-Pipm Mon, Thurs, Fri 80c Sun Standing Barn-Pipm Mon, Thurs, Fri 80c Sun Standing Barn-Pipm Mon, Thurs, Fri 80c Sun Standing Barn-Pipm Mon-Fri, Bus Lane 81 Sun Standing Barn-Pipm Mon-Fri, Bus Lane 81 Sun Standing Barn-Pipm Mon-Fri, Bus Lane 81 Sun Standing Barn-Pipm Mon-Fri 80c Sun Standing	59a	No Standing Sam-Rom Mon-Eri. Pick Up and Drop Off Only	78a	2 Hour Parking 9:30am-7pm, Except Sunday
No Standing 8am-10pm Mon-Sat, Except Commercial Vehicles, Metered Parking, 3 Hour Limit				
60c No Standing 8am-10pm, Mon-Sat, Except Truck Loading & Unloading 60d No Standing 8am-10pm, Except Sun, Except Trucks Loading and Unloading 60d No Standing 8am-Midnight, Except Sun 80d Clear Fire Lane for Emergency, Vehicles Towed 80d Clear Fire Lane for Emergency Vehicles Mon-Sat, Except Commercial Vehicles, Metered Parking, 3 Hour Limit 80f No Standing 4pm-7pm, Except Sun, Except Commercial Vehicles, Metered Parking, 3 Hour Limit 80f No Standing 4pm-7pm Mon, Thurs, Fri 80d No Standing 4pm-7pm Mon-Fri, Bus Lane 81f Bus Only 7am-10am, 4pm-7pm, Mon-Fri, Bus Lane 81f No Standing 4pm-7pm Mon-Fri, Bus Lane 81f No	604	No Standing Ram-10nm Mon-Sat. Except Commercial Vehicles. Metered Barking, 2 Hour Limit		
60d No Standing Barn-Holm, Except Sun, Except Trucks Loading and Unloading 80b Snow Route, No Standing During Emergency, Vehicles Towed 60e No Standing Barn-Midnight, Except Sun 80c Snow Route, During Emergency, Vehicles Towed 60g No Standing Barn-Midnight, Including Sun 80c Clear Fire Lane for Emergency Vehicles 60g No Standing Barn-Midnight, Including Sun 80c Clear Fire Lane for Emergency Vehicles 60h No Standing Barn-Midnight, Except Sun, Except Commercial Vehicles, Metered Parking, 3 Hour Limit 80c Clear Fire Lane for Emergency Vehicles 70e No Standing 4pm-7pm, Except Sun, Except Commercial Vehicles, Metered Parking, 3 Hour Limit 80g Bus Layover Area 70f No Standing 4pm-7pm, Mon-Fri, Bus Lane 81 Bus Layover Area 70h No Standing 4pm-7pm Mon-Fri, Bus Lane 81 Bus Conly 7am-10am, 4pm-7pm, Mon-Fri 70h No Standing 4pm-Midnight, Except Sun 71 No Parking Anytime, Temporary Construction Regulation 71a No Standing 6pm-10:30am, Including Sun 73 No Standing 6pm-Midnight, Including Sun 71b No Standing 6pm-Midnight, Including Sun 75 Temporary Construction Regulation 71c No Standing 6pm-Midnight, Except Sunday, Metered Parking, 6 Hour Limit 75 Temporary Construction Regulation, No Standing 8am-6pm Mon, Thurs, Fri, Except Auth. Vehicles, CUNY 71d No Standing 1pm-8am, Including Sun 76 Temporary Construction Regulation, No Standing 1pm-8am, Including Sun 73 No Standing				
80c Snow Route, During Emergency, Vehicles Towed	904	No Standing 8am-10nm Except Sun Except Trucks Loading at Onloading		
Rostanding Barn-Midnight, Except Sun 80d Clear Fire Lane for Emergency Vehicles 80e Step 1909 80e 8				
80e Clear Fire Lane for Emergency Vehicles	60f	No Standing 8am-Midnight, Except Sun		Clear Fire Lane for Emergency Vehicles
60h No Standing Aam-Midnight Mon-Sat, Except Commercial Vehicles, Metered Parking, 3 Hour Limit 70e No Standing 4pm-7pm, Except Sun, Except Commercial Vehicles, Metered Parking, 3 Hour Limit 80f Truck Waiting Line 80g Bus Layover Area 80h Tow Away Zone 80h No Standing 4pm-7pm Mon, Thurs, Fri 80h No Standing 4pm-7pm Mon-Fri, Bus Lane 81 Bus Only 7am-10am, 4pm-7pm, Mon-Fri 81 Bus Only 7am-10am, 4pm-7pm, Mon-Fri 82 Standing 4pm-7pm, Mon-Fri 83 Standing 4pm-7pm, Mon-Fri 84 Standing 4pm-7pm, Mon-Fri 85 Standing 4pm-8pm, Mon-Fri 86 Standing 4pm-8pm, Mon-Fri 87 No Standing 6pm-Midnight Mon-Sat Vehicles Stunday, Metered Parking, 6 Hour Limit 88 Bus Cally 7am-10am, 4pm-7pm, Mon-Fri 88 Standing 6pm-9pm, Mon-Fri 89 Standing 6pm-9pm, Mon-Fri 80 Standing 6pm-Midnight Mon-Fri 80 Standing 6pm-Midnight, Except Sunday, Metered Parking, 6 Hour Limit 80f Truck Waiting Line 80g Bus Layover Area 81 Bus Cally 7am-10am, 4pm-7pm, Mon-Fri 81 No Standing 6pm-9pm, Mon-Fri 81 No Standing 6pm-9pm, Mon-Fri 81 No Standing 6pm-Midnight, Except Sunday, Metered Parking, 6 Hour Limit 81 No Standing 1ppm-6am, Including Sun 82 Standing 11pm-6am, Including Sun 83 No Standing 11pm-6pm, Including Sun 84 Standing 11pm-6pm, Including Sun 85 No Standing 11pm-6pm, Including Sun 86 Standing 11pm-6pm, Including Sun 86 Standing 11pm-6pm, Including Sun 87 No Standing 11pm-6pm, Including Sun			80e	Clear Fire Lane for Emergency Vehicles
70e No Standing 4pm-7pm, Except Sun, Except Commercial Vehicles, Metered Parking, 3 Hour Limit 80g Bus Layover Area 70f No Standing 4pm-7pm Mon, Thurs, Fri 80h Tow Away Zone 70g No Standing 4pm-7pm Mon-Fri, Bus Lane 81 Bus Only 7am-10am, 4pm-7pm, Mon-Fri 70h No Standing 4pm-Midnight, Except Sun 11 No Parking Anytime, Temporary Construction Regulation 71e No Standing 6pm-10:30am, Including Sun 73 No Standing 6pm-Midnight Mon-Fri 71e No Standing 6pm-Midnight, Including Sun 74 No Parking, Temporary Construction Regulation 71c No Standing 6pm-Midnight, Including Sun 75 Temporary Construction Regulation, No Standing 8am-6pm Mon, Thurs, Fri, Except Auth. Vehicles, CUNY 71d No Standing 1pm-8am, Including Sun 7 72a No Standing 1pm-8am, Including Sun 8 73b No Standing 11pm-8am, Including Sun 9 73b No Standing 11pm-8am, Including Sun 9 73b No Standing 11pm-8am, Including Sun 9	60h	No Standing 8am-Midnight Mon-Sat, Except Commercial Vehicles. Metered Parking. 3 Hour Limit	80f	Truck Waiting Line
70f No Standing 4pm-7pm Mon-Fri, Bus Lane 80h Tow Away Zone 70g No Standing 4pm-7pm Mon-Fri, Bus Lane 81 Bus Only 7am-10am, 4pm-7pm, Mon-Fri 70h No Standing 4pm-Midnight, Except Sun 11 No Parking Anytime, Temporary Construction Regulation 70i No Standing 4pm-7pm 12 No Standing 6pm-Non-Fri, Temporary Construction Regulation 71a No Standing 6pm-Midnight Mon-Fri 13 No Standing Anytime, Temporary Construction Regulation 71c No Standing 6pm-Midnight Mon-Fri 14 No Parking, Temporary Construction Regulation 71c No Standing 6pm-Midnight, Including Sun 15 Temporary Construction Regulation, No Standing 8am-6pm Mon, Thurs, Fri, Except Auth. Vehicles, CUNY 71d No Standing 6pm-Midnight, Except Sunday, Metered Parking, 6 Hour Limit 15 Temporary Construction Regulation, No Standing 8am-6pm Mon, Thurs, Fri, Except Auth. Vehicles, CUNY 71d No Standing 10pm-6am, Including Sun 15 No Standing 11pm-6am, Including Sun 72e No Standing 11pm-6pm, Including Sun 1 73a No Standing 11pm-6pm, Including Sun 1	70e	No Standing 4pm-7pm, Except Sun, Except Commercial Vehicles. Metered Parking. 3 Hour Limit		
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71b No Standing 6pm-Midnight Mon-Fri T4 No Parking, Temporary Construction Regulation 71c No Standing 6pm-Midnight, Including Sun T5 Temporary Construction Regulation, No Standing 8am-6pm Mon, Thurs, Fri, Except Auth. Vehicles, CUNY 71d No Standing 6pm-Midnight, Except Sunday, Metered Parking, 6 Hour Limit Image: Construction Regulation, No Standing 8am-6pm Mon, Thurs, Fri, Except Auth. Vehicles, CUNY 72e No Standing 10pm-8am, Including Sun Image: Construction Regulation, No Standing 8am-6pm Mon, Thurs, Fri, Except Auth. Vehicles, CUNY 73a No Standing 11pm-6am, Including Sun Image: Construction Regulation 73b No Standing 11pm-6pm, Including Sun Image: Construction Regulation 73c No Standing 11pm-6pm, Including Sun Image: Construction Regulation	71a	No Standing 6pm-10:30am, Including Sun	T3	No Standing Anytime, Temporary Construction Regulation
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	73a	No Standing 11pm-6am, Including Sun		
73c No Parking Fri 11pm-Sun Noon				
	73c	No Parking Fri 11pm-Sun Noon		

Table 17-14 2008 Existing Off-Street Parking Utilization

					Weekday	/ Midday	Weekday Overnight		
Map#	Name	Address	License Number	Licensed Capacity	Utilization Rate	Available Capacity	Utilization Rate	Available Capacity	
1	Circle Line Sightseeing Yachts Inc.	Pier 81	4296229	290	70%	87	Clo	osed	
2	Quik Park W. 41st St. LLC	601 W. 41st St.	1266247	194	50%	97	90%	19	
3	JDS Parking LLC	561 Tenth Ave.	1130760	71	85%	11	45%	39	
4	Central Parking Systems	541 W. 38th St.	1101898	221	50%	111	Clo	osed	
5	L Park 30 LLC	405 W. 38th St.	1249180	30	60%	12	Clo	osed	
6	Car Park Systems	462-470 Eleventh Ave.	1298308 1298309	42	60%	17	Clo	osed	
7	Westside Express Parking	456 Eleventh Ave.	1134101	20	75%	5	Clo	sed	
8	E-Z Sprint	517-525 W. 36th St.	999365	25	95%	1	Clo	sed	
9	9th Ave. Parking LLC	404 W. 37th St.	1142024	166	65%	58	Clo	sed	
10	Enterprise of 35th W.	451 Tenth Ave.	1276761	123	95%	6	Clo	sed	
11	Imperial Parking	452 Tenth Ave.	1258468 1104818	142	90%	14	Clo	osed	
12	21st Parking	436-438 W. 36th St. 447 W. 35th St.	1262199 1262417	90	85%	14	60%	36	
13	Central Parking System of NY	416 W. 36th St.	1199948	28	95%	1	Clo	osed	
14	Central Parking System	415 W. 35th St.	1085596	52	50%	26	30%	36	
15	Edison Park Fast	451 Ninth Ave. 409 W. 35th St.	976955 976953	154	80%	31	Clo	osed	
16	509 W. 34th St Parking Corp	509 W. 34th St.	1254421	200	95%	10	20%	160	
17	34th St. Parking Corp.	435 Tenth Ave.	976181	99	100%	0	5%	94	
18	21st Parking LLC	444 Tenth Ave.	1268783	25	100%	0	Clo	sed	
19	Central Parking System, Inc.	441 Ninth Ave.	367203	160	90%	16	25%	120	
20	34th & 9th Parking	436-438 Ninth Ave.	1166499	140	95%	7	20%	112	
21	Lincoln Garage LLC D/B/A Meyer Parking	323-331 W. 34th St.	1182737	500	75%	125	30%	350	
22	Edison 9th Ave. Corp	401-409 Ninth Ave.	428456	115	75%	29	20%	92	
23	Tunnel Parking Corp	425 W. 31st St.	1014335	145	50%	73	20%	116	
24	Madison Square Parking Corp.	359-63 Ninth Ave.	993927	40	95%	2	50%	20	
25	Secure Parking LLC	363 W. 30th St.	1099298	18	90%	2	Clo	sed	
26	Post Office Garage LLC D/B/A Meyers Parking	340 W. 31st. St.	1181008	255	100%	0	30%	179	
27	29 Operator Corp.	260-270 Twelfth Ave.	1258489	89	100%	0	20%	71	
28	Enterprise 30th St. Parking LLC	343 Tenth Ave.	1060717	50	80%	10	30%	35	
29	Enterprise 30th St. Parking LLC	529-539 W. 29th St.	1083289	100	75%	25	30%	70	
30	West 26th Parking Corp.	279 Tenth Ave.	892932	140	50%	70	Clo	sed	
31	Impact Car Park LLC	333 W. 26th St.	1079092	839	95%	42	30%	587	
32	550 W. 25th St. Car Park, LLC	550 W. 25th St.	1192617	163	85%	24	25%	122	
33	249 Parking	249 Tenth Ave.	427868	120	20%	96	65%	42	
34	555 West Garage	549 W. 24th St.	1214704	70	90%	7	75%	18	
35	Quik Park Garage	423-431 W. 23rd St.	998590	185	100%	0	90%	19	
36	514 West	514 W. 23rd St.	920084	81	100%	0	80%	16	
			Totals	5,182	80%	1,029	37%	2,353	

Table 17-15 2006 to 2008 Accident History

-		2006 to 2008 Accident History													
Inte	ersection		2006, 2007	Injuries or Fatalities by Year											
IIIu	ersection		Pedestrian Bicycle						Combined ²						
		Total	Reportable												
Main Street	Cross Street	Accidents	Accidents	Fatalities					2006	-	2008			2008	
Twelfth Ave.	West 26th St.	48	9	0	10	0	0	0	1	0	0	1	0	0	
Twelfth Ave.	West 27th St.	24	0	0	0	0	0	0	0	0	0	0	0	0	
Twelfth Ave.	West 28th St.	21	2	0	2	0	0	0	0	0	0	0	0	0	
Twelfth Ave.	West 29th St.	40	7	0	8	1	0	0	0	0	0	1	0	0	
Twelfth Ave.	West 30th St.	94	22	2	31	0	1	1	0	1	0	0	2	1	
Twelfth Ave.	West 33rd St.	49	4	0	6	0	0	0	0	0	0	0	0	0	
Twelfth Ave.	West 34th St.	160	18	0	27	0	0	0	0	1	0	0	1	0	
Twelfth Ave.	Police Tow Pound	23	2	0	3	0	0	0	0	0	0	0	0	0	
Twelfth Ave.	Pier 79 Ferry Terminal	46	5	0	5	0	0	0	0	0	0	0	0	0	
Eleventh Ave.	West 26th St.	47	6	0	6	2	2	0	2	0	0	4	2	0	
Eleventh Ave.	West 27th St.	38	1	0	1	0	0	0	0	0	0	0	0	0	
Eleventh Ave.	West 28th St.	32	3	0	3	0	0	0	0	0	0	0	0	0	
Eleventh Ave.	West 29th St.	47	3	0	3	0	0	2	0	0	0	0	0	2	
Eleventh Ave.	West 30th St.	89	17	0	24	0	0	0	1	0	1	1	0	1	
Eleventh Ave.	West 33rd St.	31	6	0	12	0	0	1	0	0	0	0	0	1	
Eleventh Ave.	West 34th St.	108	17	0	22	0	2	0	1	0	2	1	2	2	
Eleventh Ave.	West 35th St.	24	2	0	2	0	0	1	0	0	0	0	0	1	
Eleventh Ave.	West 36th St.	32	1	0	1	0	0	0	0	0	0	0	0	0	
Eleventh Ave.	West 37th St.	53	5	0	8	2	0	2	0	0	0	2	0	2	
Tenth Ave.	West 26th St.	96	15	0	19	5	1	1	2	0	0	7	1	1	
Tenth Ave.	West 27th St.	77	10	0	10	1	3	2	0	0	0	1	3	2	
Tenth Ave.	West 28th St.	67	8	0	10	0	3	0	0	0	0	0	3	0	
Tenth Ave.	West 29th St.	83	3	0	4	0	0	0	1	0	0	1	0	0	
Tenth Ave.	West 30th St.	88	9	0	9	1	1	0	0	0	0	1	1	0	
Tenth Ave.	West 31st St.	25	7	0	8	0	0	1	0	0	1	0	0	2	
Tenth Ave.	West 33rd St.	49	5	0	9	0	0	1	0	0	0	0	0	1	
Tenth Ave.	West 34th St.	174	23	0	29	2	3	3	0	3	0	2	6	3	
Tenth Ave.	West 35th St.	60	3	0	3	0	1	0	0	0	0	0	1	0	
Tenth Ave.	West 36th St.	118	11	0	16	0	1	1	0	0	0	0	1	1	
Tenth Ave.	West 37th St.	64	4	0	4	0	2	0	0	1	0	0	3	0	
Ninth Ave.	West 26th St.	41	11	0	11	3	3	2	1	0	1	4	3	3	
Ninth Ave.	Mid- block Crossing	9	0	0	0	0	0	0	0	0	0	0	0	0	
Ninth Ave.	West 28th St.	67	14	1	16	4	4	1	1	0	0	5	4	1	
Ninth Ave.	West 29th St.	49	14	1	18	5	0	1	1	4	2	6	4	3	
Ninth Ave.	West 30th St.	109	19	0	28	2	6	4	0	0	1	2	6	5	
Ninth Ave.	West 32nd St.	59	11	0	13	2	2	2	0	1	0	2	3	2	
Ninth Ave.	West 33rd St.	59	10	0	12	0	1	2	0	1	1	0	2	3	
Ninth Ave.	West 34th St.	203	25	0	32	5	2	2	1	1	2	6	3	4	
Ninth Ave.	West 35th St.	96	5	0	8	1	0	2	0	0	0	1	0	2	
Ninth Ave.	West 36th St.	93	9	0	10	1	2	1	1	0	0	2	2	1	
Ninth Ave.	West 37th St.	147	19	0	19	4	2	5	1	1	0	5	3	5	
Eighth Ave.	West 26th St.	45	8	0	9	0	2	3	0	1	2	0	3	5	
Eighth Ave.	West 27th St.	13	5	0	5	1	1	0	1	0	0	2	1	0	
Eighth Ave.	West 28th St.	67	14	0	17	3	4	3	1	0	1	4	4	4	
Eighth Ave.	West 29th St.	81	18	0	18	6	4	3	0	0	1	6	4	4	
Eighth Ave.	West 30th St.	116	14	0	15	2	8	3	1	0	0	3	8	3	
Eighth Ave.	West 31st St.	189	11	0	15	0	2	5	0	2	1	0	4	6	
Eighth Ave.	Post Office Crossing	8	2	0	2	0	0	0	0	0	0	0	0	0	
Eighth Ave.	West 33rd St.	154	17	0	19	4	1	3	2	2	1	6	3	4	
Eighth Ave.	West 34th St.	284	52	0	60	13	7	10	5	1	2	18	8	12	
Eighth Ave.	West 35th St.	85	6	0	6	0	3	1	1	1	0	1	4	1	
Eighth Ave.	West 36th St.	130	21	0	22	3	4	6	1	4	0	4	8	6	
Eighth Ave.	West 37th St.	151	21	0	25	4	3	2	1	2	1	5	5	3	
Seventh Ave.	West 26th St.	60	10	0	15	3	2	1	0	1	1	3	3	2	
Seventh Ave.	West 27th St.	57	13	0	14	4	3	4	1	0	0	5	3	4	
Seventh Ave.	West 28th St.	70	8	0	17	2	2	1	1	0	0	3	2	1	

Table 17-15 (cont'd) 2006 to 2008 Accident History

Intersection			Injuries or Fatalities by Year											
inte	rsection		Pedestrian			Bicycle			Combined ²					
Main Street	Cross Street	Total Accidents	Reportable Accidents	Fatalities	Injuries	2006	2007	2008	2006	2007	2008	2006	2007	2008
Seventh Ave.	West 29th St.	68	17	0	17	2	2	3	0	1	4	2	3	7
Seventh Ave.	West 30th St.	98	12	0	15	0	2	3	0	1	0	0	3	3
Seventh Ave.	West 31st St.	131	16	0	16	2	1	2	1	2	2	3	3	4
Seventh Ave.	West 32nd St.	86	12	0	15	2	6	4	0	0	0	2	6	4
Seventh Ave.	West 33rd St.	143	18	0	20	3	7	3	1	0	0	4	7	3
Seventh Ave.	West 34th St.	282	40	0	54	6	7	9	2	0	0	8	7	9
Seventh Ave.	West 35th St.	112	18	0	23	5	8	3	0	0	0	5	8	3
Seventh Ave.	West 36th St.	119	18	0	30	3	1	12	1	1	0	4	2	12
Seventh Ave.	West 37th St.	115	27	0	38	8	6	8	3	1	1	11	7	9
Total		5503	763	4	949	117	128	130	37	34	28	154	162	158

Notes

- 1 Overall accidents includes accidents involving one or more motor vehicles or a motor vehicle with a pedestrian or bicycle.
- 2 A combined total of five or more pedestrian and/or bicycle related accidents in any one year is the CEQR criteria for identifying a high accident location.

Source: NYCDOT

Overall, a total of approximately 5,500 total accidents and 763 reportable accidents occurred in the accident study area during the three-year reporting period. Four fatalities and 949 injuries occurred, of which 375 were pedestrian related and 99 were bicycle accident-related. Over 100 total accidents occurred at each of the intersections of West 34th Street with Seventh Avenue, Eighth Avenue, Ninth Avenue, Tenth Avenue, Eleventh Avenue and Twelfth Avenue. The highest number of total accidents occurred at the intersection of West 34th Street and Eighth Avenue (284). This intersection also experienced the most reportable accidents (52) of any intersection in the accident study area over the reporting period.

According to the *CEQR* criteria, a high accident location is one where five or more combined pedestrian and/or bicycle-related accidents have occurred in any single year over the most recent three-year period. More than five combined pedestrian and/or bicycle injuries or fatalities occurred at 23 intersections in the study area during a one or more years over the three year period, with the highest number reported at the intersection of Eighth Avenue and West 34th Street in 2006.

D. THE FUTURE WITHOUT THE PROPOSED ACTIONS

Traffic and parking conditions in the Future without the Proposed Actions were assessed to establish the condition against which potential impacts from the Proposed Actions are evaluated. The analysis of the Future without the Proposed Actions in this section focuses on typical weekday and Saturday conditions in 2019, the year the Development Site is scheduled for completion. As noted above, a 2017 interim year assessment of potential impacts of the partial completion of the Western Rail Yard development has also been incorporated in the traffic analysis conducted for this EIS. A description of the Future without the Proposed Actions condition in the 2017 interim year is also presented below.

ROADWAY MODIFICATIONS

Several modifications to the study area roadway network are expected to in place by 2017 and 2019. These modifications are expected to be implemented as part of the Hudson Yards area

development and other development in the study area and in accordance with NYCDOT initiatives.

HUDSON PARK AND BOULEVARD

The first phase of Hudson Park and Boulevard, between Tenth and Eleventh Avenues from West 33rd Street to West 36th Street, is expected to be completed prior to 2017. The first phase of Hudson Park and Boulevard would include a one-way northbound segment from West 33rd Street to West 36th Street and a one-way southbound segment from West 36th Street to West 35th Street.

EASTERN RAIL YARD

Two north-south and two east-west publicly accessible roadways would be constructed within the Eastern Rail Yard development site to provide access to buildings internal to the site and improve overall vehicular and pedestrian circulation. The two new east-west roadways (generally in line with West 31st Street operating one-way westbound and West 32nd Street operating one-way eastbound) would intersect with Eleventh Avenue and extend within the site to a new internal north-south roadway constructed along the extended alignment of Hudson Park and Boulevard. This north-south roadway would operate one-way north of, and one-way south of its intersection with the new roadway generally in line with West 32nd Street. Also, a southbound roadway would be constructed from West 33rd Street to the roadway generally in line with West 32nd Street. Analysis locations in the Future without the Proposed Actions include the intersections of Eleventh Avenue with the roadways generally in line with West 31st and 32nd Streets and the intersection of West 33rd Street with the new Eastern Rail Yard north-south roadway and Hudson Park and Boulevard.

SAFE STREETS FOR SENIORS

NYCDOT has implemented a city wide program of improving pedestrian safety conditions for senior citizens. One traffic signal timing factor considered at intersections is the pedestrian walk time assumed for crossing. Within designated areas, NYCDOT has proposed reducing the assumed pedestrian crossing walk rate from four to three feet per second to provide additional pedestrian crossing time. The Midtown West/Chelsea Senior Safety Area overlaps a large portion of the Western Rail Yard traffic study area. Traffic signal timings within this Senior Safety Area were checked for conformance with this revised pedestrian walk rate parameter and modified as necessary in the Future with and without the Proposed Actions conditions to satisfy reduced walking rate traffic signal timing requirements.

OTHER ROADWAY MODIFICATIONS

NYCDOT is "planning" to implement pedestrian safety improvements on Seventh Avenue from West 31st to West 34th Streets, consisting of corner bulb-outs and curbline relocations. It is also planning to convert West 41st Street between Tenth and Eleventh and Tenth Avenues from its current one-way westbound operation to two-way with one eastbound and one westbound lane. However, only eastbound local traffic destined to the buildings fronting West 41st Street would be accommodated, not access to the Lincoln Tunnel. It is anticipated that the closure of West 39th Street between Eleventh and Twelfth Avenues, as in existing conditions, would continue in the future.

HUDSON YARDS FGEIS MITIGATION

The mitigation measures proposed in the *Hudson Yards FGEIS* were determined inappropriate for inclusion in the Western Rail Yard traffic impact analysis given the significant number of changes that have occurred in the study area since the completion of the *Hudson Yards FGEIS*, including a reduction in area-wide traffic volumes, numerous changes to the traffic network, a reduction in auto mode share, and changes to the Hudson Yards development program. An analysis of the changed conditions was prepared as part of this <u>FEIS</u> and is documented in Appendix E, "Transportation Technical Memos and Analyses." In effect, the exclusion of such mitigation measures in the 2017 and 2019 Future without the Proposed Actions condition analysis presents a potentially more conservative indication of the levels of congestion that may occur in the future in the study area.

An additional comparison was performed of the mitigation measures developed for the 2019 analysis year of this <u>EIS</u> and the 2025 analysis year of the *Hudson Yards FGEIS* and concluded that there will still be an ability to develop additional mitigation measures to address the adverse traffic impact that may result from the Hudson Yards rezoning and other projects as the projected development in Far West Midtown materializes. Documentation of this comparison is also included in Appendix E, "Transportation Technical Memos and Analyses."

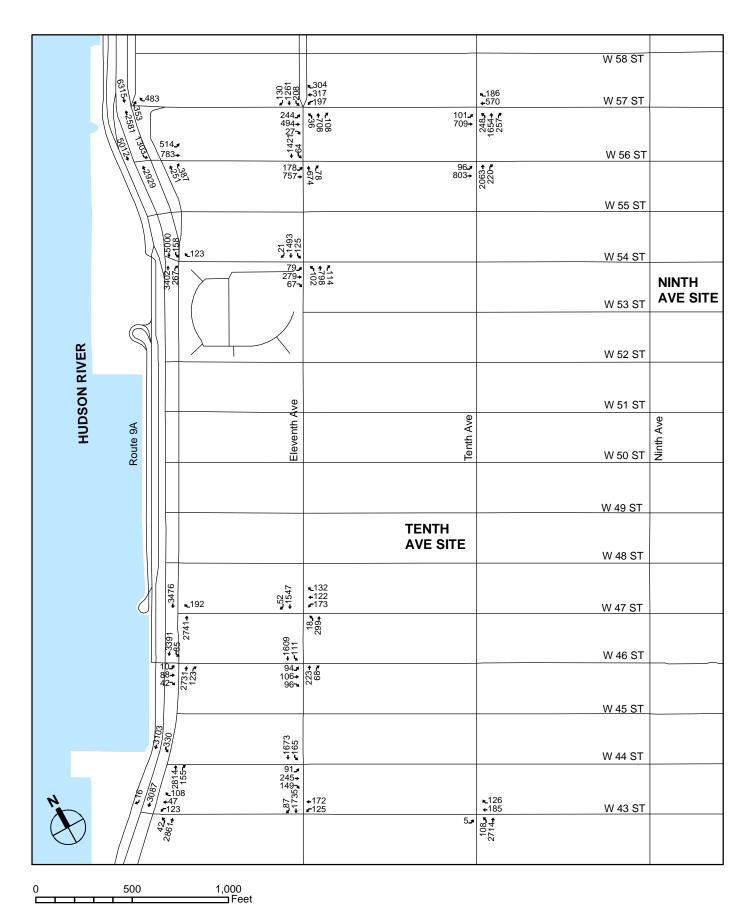
Also, recognizing the long-term nature of the traffic projections in the *Hudson Yards FGEIS* and the potential for significant changes over time, in 2005 the City of New York agreed to implement a traffic monitoring and management program when the first five million square feet of development associated with the Hudson Yards rezoning were completed. In coordination with NYCDOT, the monitoring program would serve to identify the need to implement specific mitigation measures.

TRAFFIC VOLUMES

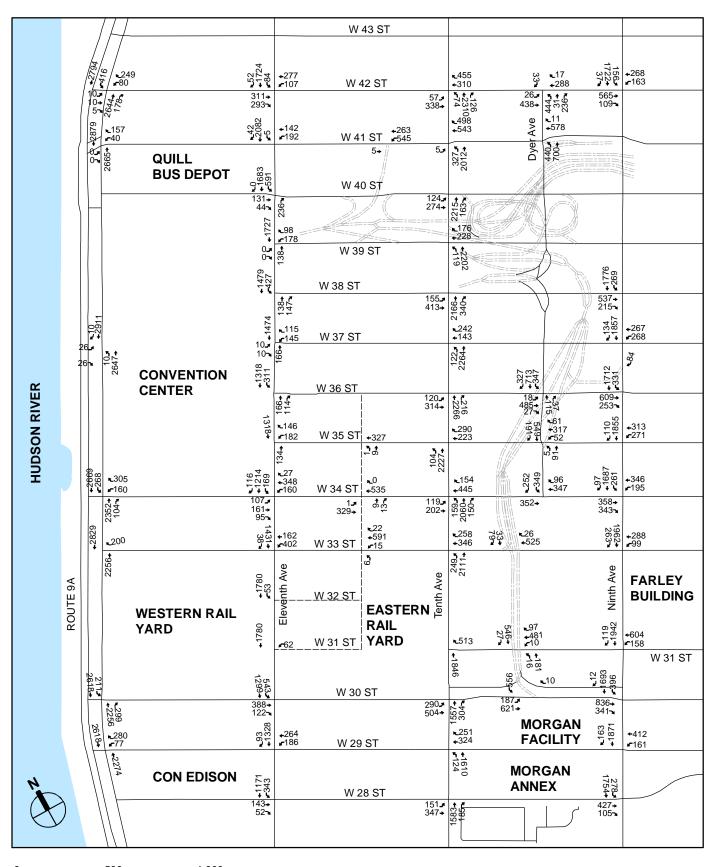
Traffic volumes on the study area roadway network in the Future without the Proposed Actions were derived through a combination of background traffic growth and traffic projected to be generated by specific developments anticipated to be completed by 2019. A description of Future without the Proposed Actions (or "No Build") development projects whose projected trips were included in the traffic volume networks in the Future without the Proposed Actions analysis is provided in Chapter 2, "Framework for Analysis." A similar process was employed to derive study area roadway network traffic volumes for the 2017 interim analysis year. However, no additional No Build projects are projected to be completed between 2017 and 2019. Details related to the traffic assignment process are presented in the Appendix E memo: "Western Rail Yard EIS Traffic Assignment Assumptions for Off-Street Parking Facilities."

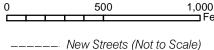
For the 2017 interim year analysis traffic forecasts, a cumulative background growth rate of approximately 3.3 percent was applied to 2008 conditions to represent background growth occurring over the 2008 to 2017 period. For the 2019 traffic forecasts, a cumulative background growth rate of approximately 3.8 percent was applied to 2008 conditions to represent background growth occurring over the 2008 to 2019 period.

Figures 17-21 through 17-36 provide the 2019 No Build traffic volumes for the typical weekday AM (8 AM to 9 AM), midday (12 noon to 1PM), PM (5 PM to 6 PM) and typical Saturday midday (1 PM to 2 PM) peak hours, respectively, in the study area. No Build traffic volumes for the 2017 interim analysis year are provided in Appendix E, "Transportation Technical Memos and Analyses."

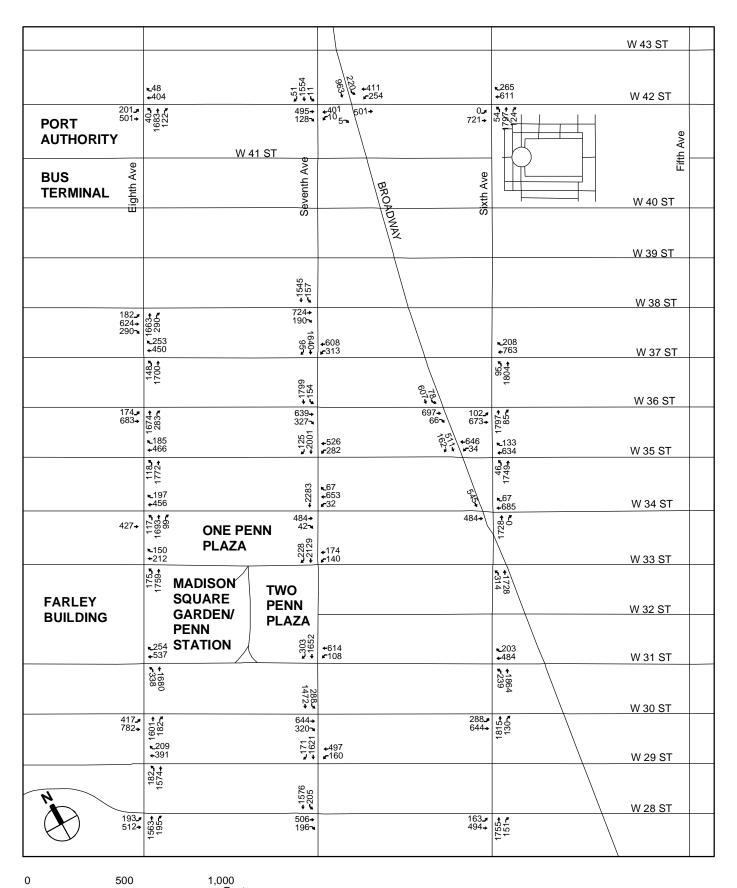


2019 No Build Traffic Volumes - Inset 1 (Weekday AM Peak Hour)

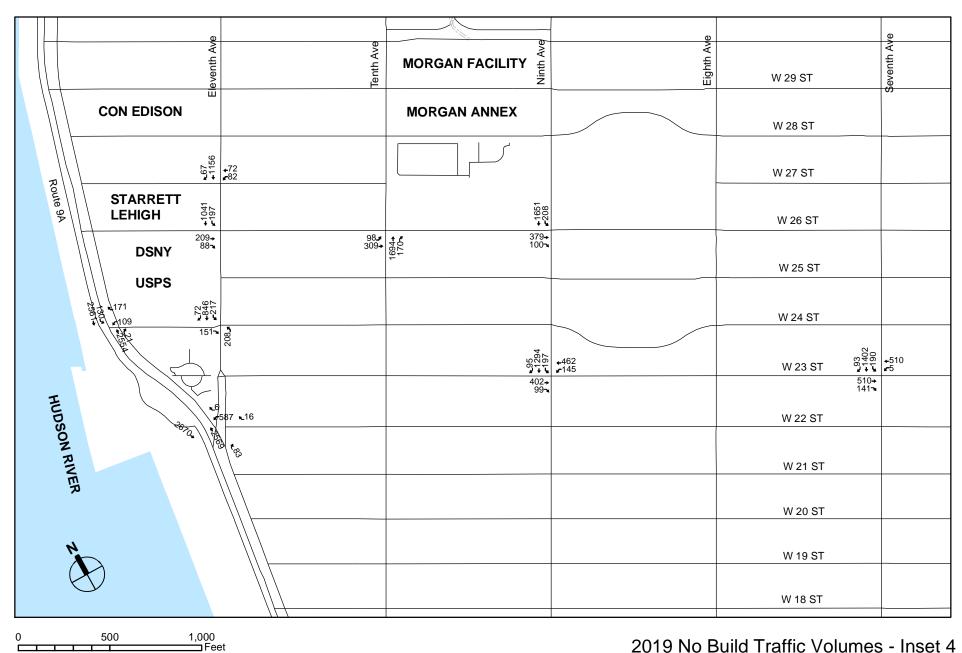




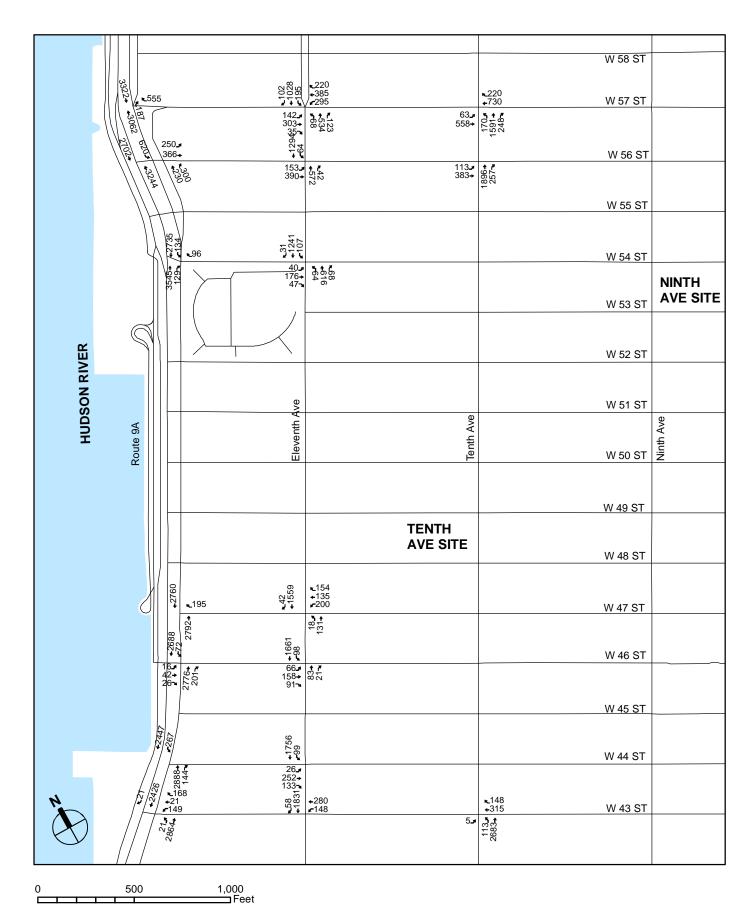
2019 No Build Traffic Volumes - Inset 2 (Weekday AM Peak Hour)



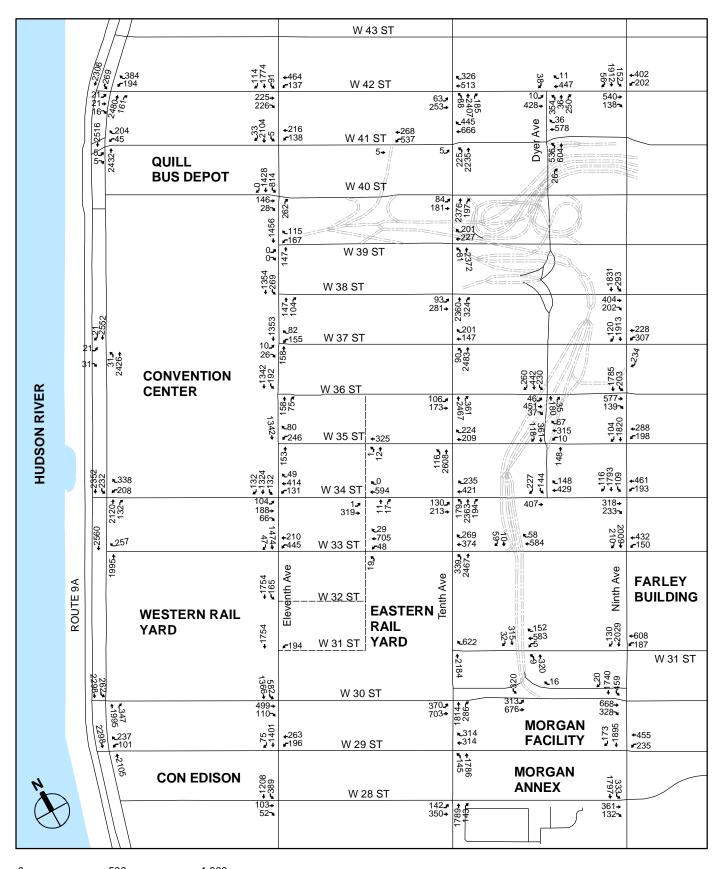
2019 No Build Traffic Volumes - Inset 3 (Weekday AM Peak Hour)

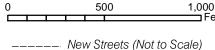


2019 No Build Traffic Volumes - Inset 4 (Weekday AM Peak Hour)

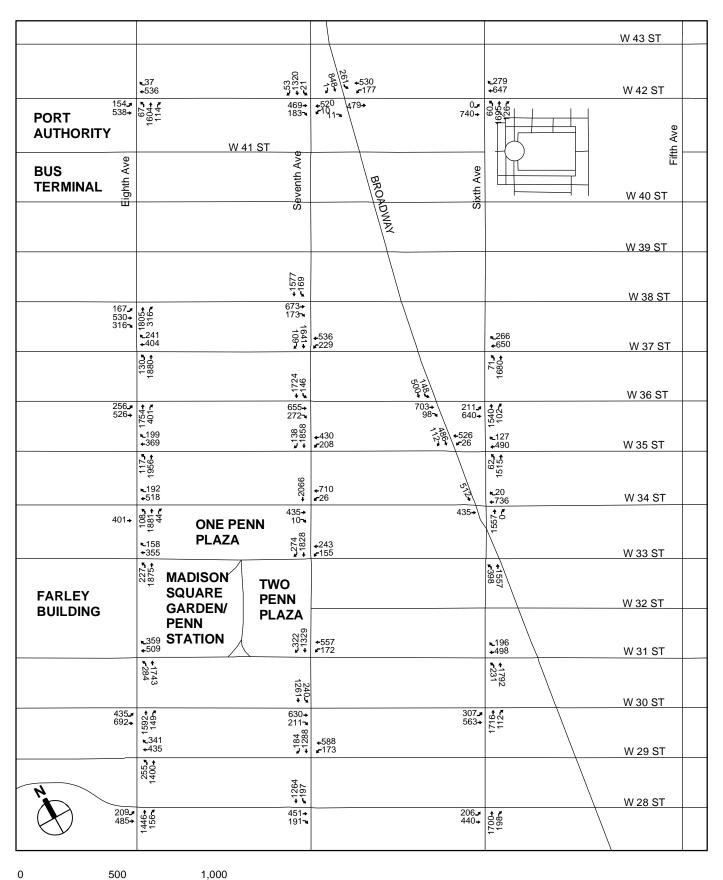


2019 No Build Traffic Volumes - Inset 1 (Weekday Midday Peak Hour)

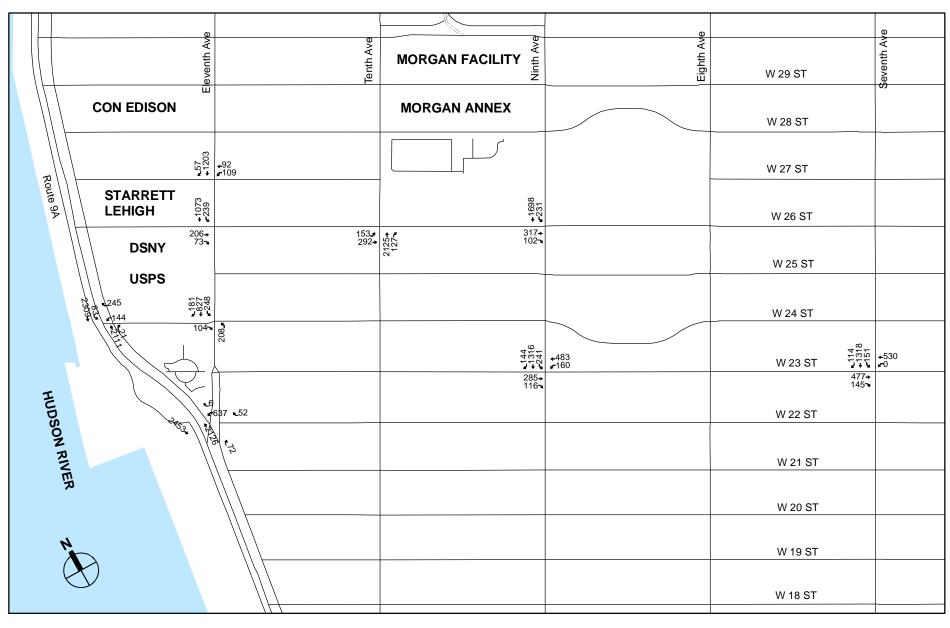




2019 No Build Traffic Volumes - Inset 2 (Weekday Midday Peak Hour)

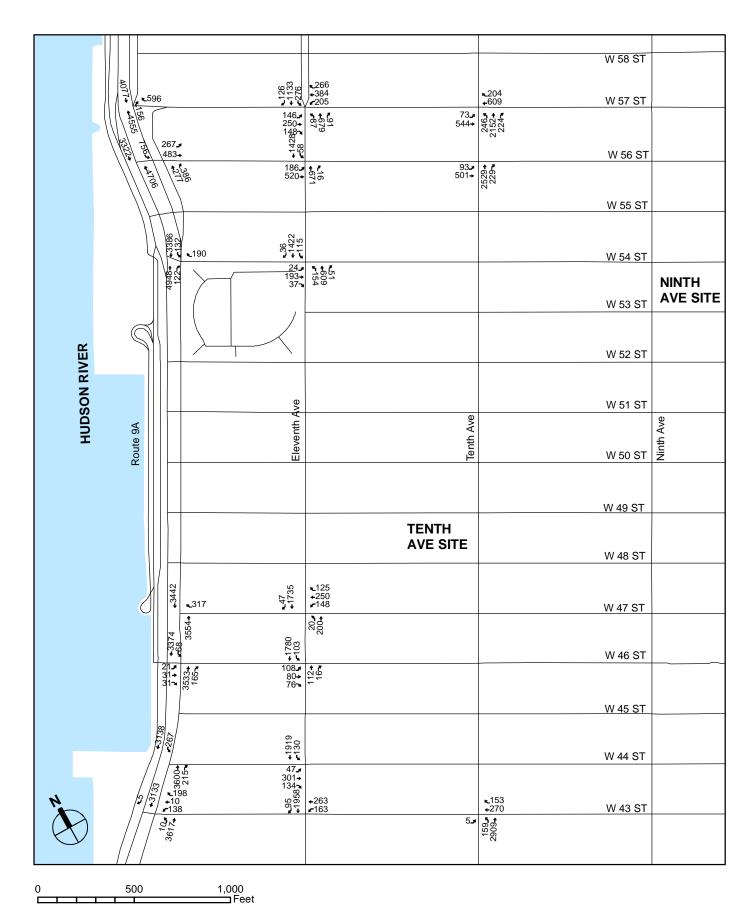


2019 No Build Traffic Volumes - Inset 3
(Weekday Midday Peak Hour)

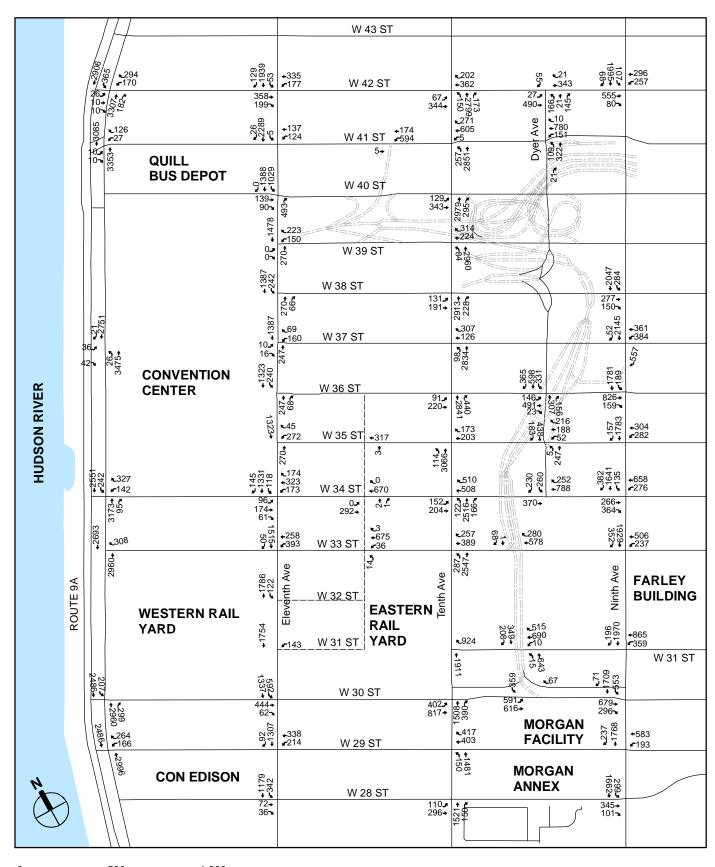


2019 No Build Traffic Volumes - Inset 4 (Weekday Midday Peak Hour)

WESTERN RAIL YARD

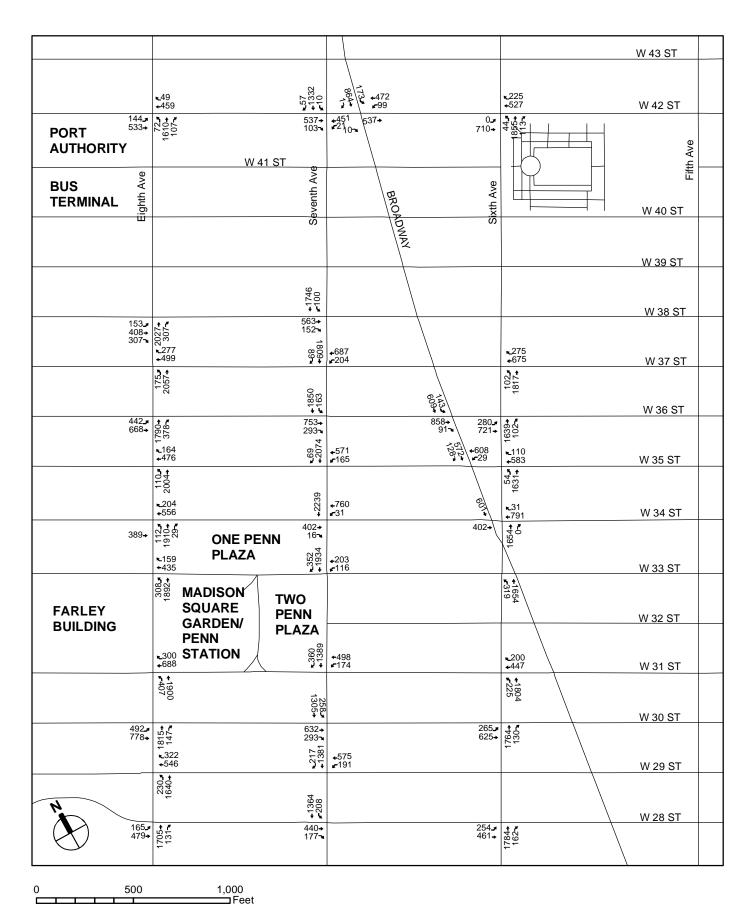


2019 No Build Traffic Volumes - Inset 1 (Weekday PM Peak Hour)

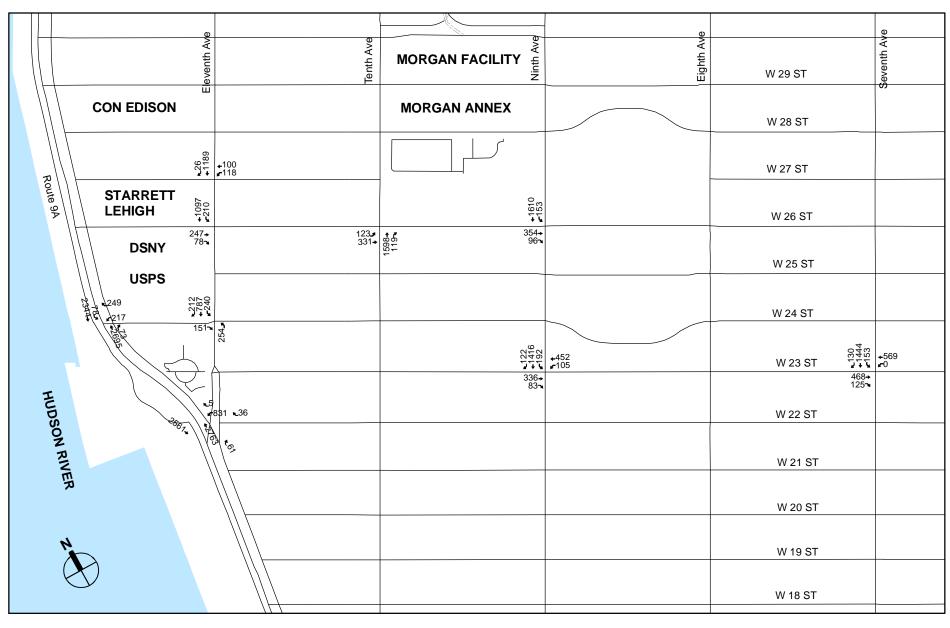




2019 No Build Traffic Volumes - Inset 2 (Weekday PM Peak Hour)

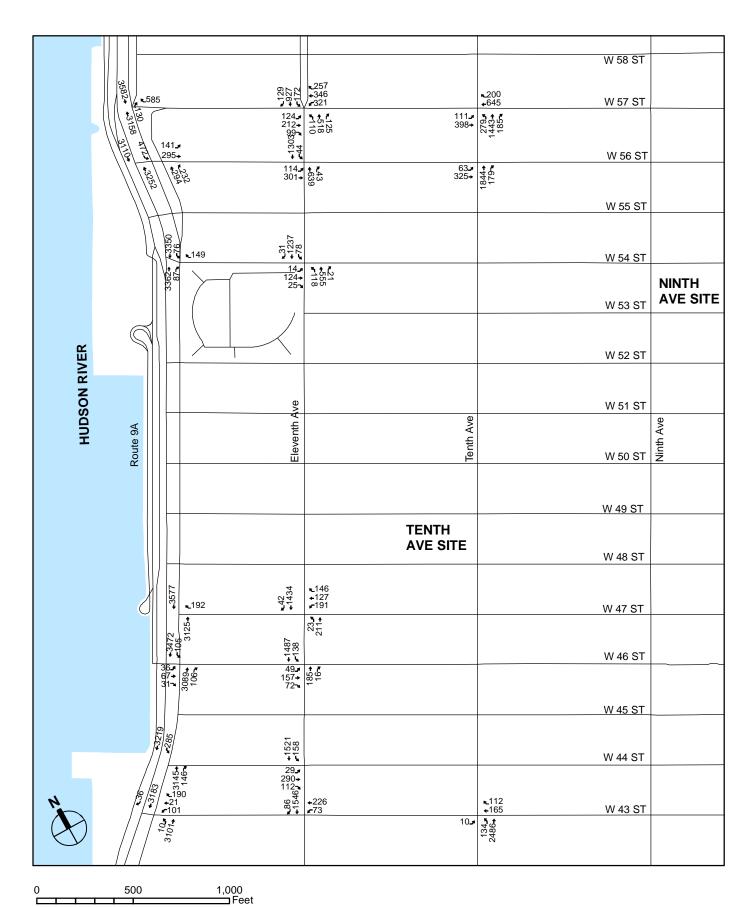


2019 No Build Traffic Volumes - Inset 3 (Weekday PM Peak Hour)

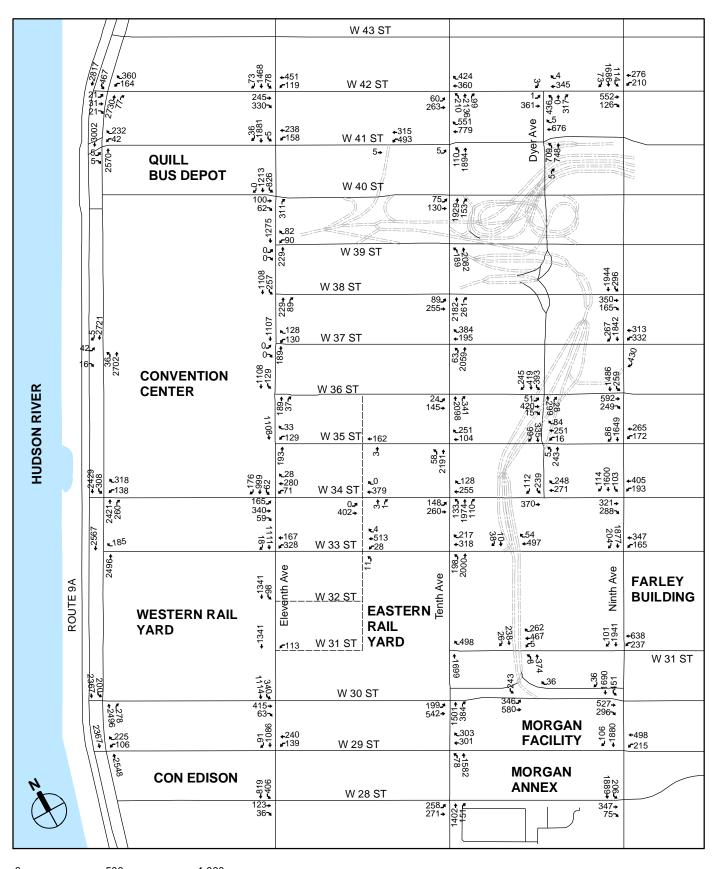


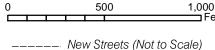
2019 No Build Traffic Volumes - Inset 4 (Weekday PM Peak Hour)

WESTERN RAIL YARD Figure 17-32

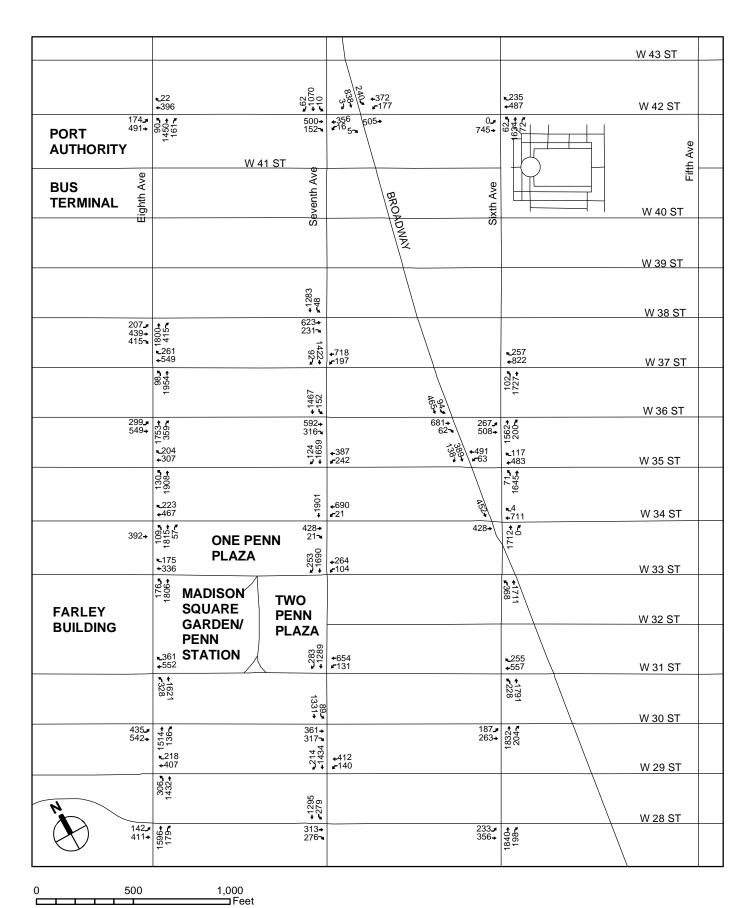


2019 No Build Traffic Volumes - Inset 1 (Saturday Midday Peak Hour)

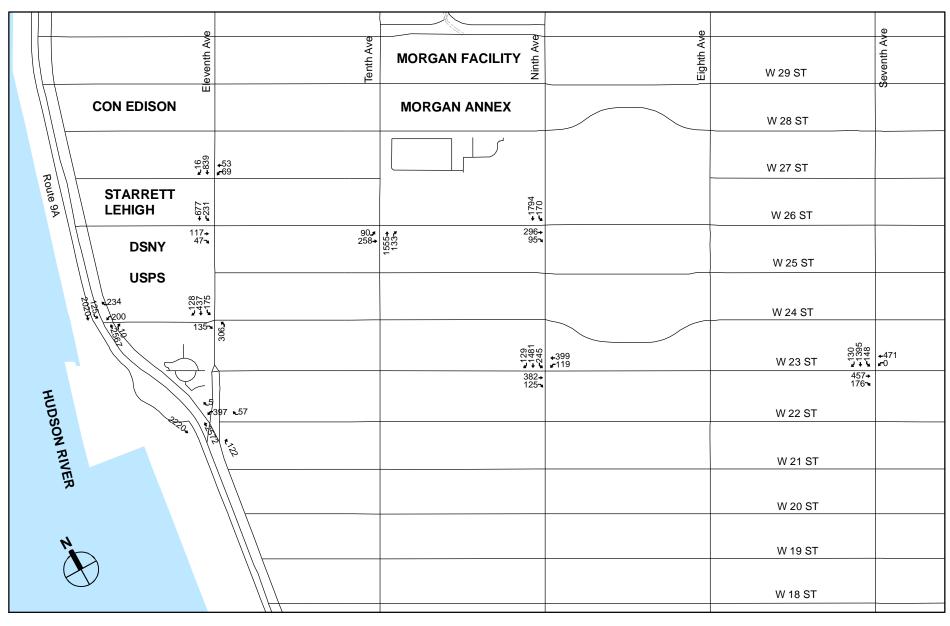




2019 No Build Traffic Volumes - Inset 2 (Saturday Midday Peak Hour)



2019 No Build Traffic Volumes - Inset 3 (Saturday Midday Peak Hour)



2019 No Build Traffic Volumes - Inset 4 (Saturday Midday Peak Hour)

WESTERN RAIL YARD

INTERSECTION CAPACITY ANALYSIS

Capacity analyses for 2019 in the Future without the Proposed Actions at the study area intersections were performed in accordance with the methodology presented in the *Highway Capacity Manual (HCM)*, as described above for existing conditions. As shown in Table 17-16, in the 2019 Future without the Proposed Actions condition 114 approach movements at 70 intersections would operate at mid-LOS D, LOS E, or LOS F in the AM peak hour; 108 approach movements at 71 intersections would operate at mid-LOS D, LOS E, or LOS F in the midday peak hour; 144 approach movements at 83 intersections would operate at mid-LOS D, LOS E, or LOS F in the PM peak hour; and 83 approach movements at 63 intersection would operate at mid-LOS D, LOS E, or LOS F in the Saturday midday peak hour. The PM peak hour would be the most congested in the study area as demonstrated by the overall number of approach movements projected to operate at mid-LOS D or worse and in the number of approach movements projected to operate in LOS E or LOS F.

Table 17-16 2019 Future without the Proposed Actions Number of Intersection Approach Movements at Mid-LOS D, LOS E, or LOS F

		Analys	is Hour	
Level of Service	AM	Weekday Midday	PM	Saturday Midday
Mid-LOS D	<u>15</u>	22	<u>11</u>	<u>22</u>
LOS E	<u>23</u>	<u>15</u>	<u>27</u>	<u>9</u>
LOS F	<u>76</u>	<u>78</u>	106	<u>52</u>

In the 2017 Future without the Proposed Actions condition, as shown in Table 17-17, 111 approach movements at <u>69</u> intersections would operate at mid-LOS F, LOS E, or LOS F in the AM peak hour; <u>102</u> approach movements at <u>70</u> intersections would operate at mid-LOS D, LOS E, LOS F in the midday peak hour; <u>142</u> approach movements at <u>81</u> intersections would operate at mid-LOS D, LOS E, or LOS F in the PM peak hour; and <u>78</u> approach movements at <u>60</u> intersections would operate at mid-LOS F, LOS E, or LOS F in the Saturday midday peak hour. This finding represents generally similar conditions as those presented above for the 2019 analysis year in the Future without the Proposed Actions, as would be expected since no additional No Build projects are anticipated to be completed between 2017 and 2019, as noted above. Likewise as noted above, the PM peak hour would be the most congested in the study area in the 2017 interim year in the Future without the Proposed Actions, as demonstrated by the overall number of approach movements projected to operate at mid-LOS D or worse and in the number of approach movements projected to operate in LOS E or LOS F.

Detailed analysis results in the Future without the Proposed Actions, including the v/c ratio, delay, and LOS, for intersections with one or more approach or lane group operating at mid-LOS D or worse are provided for the weekday AM, midday, PM, and Saturday midday peak hours in Table 17-18 for 2019 and in Table 17-19 for 2017.

Table 17-17 2017 Future without the Proposed Actions Number of Intersection Approach Movements at Mid-LOS D, LOS E, or LOS F

		Analys	is Hour	
Level of Service	AM	Weekday Midday	PM	Saturday Midday
Mid-LOS D	13	23	<u>11</u>	<u>20</u>
LOS E	<u>25</u>	<u>13</u>	<u>29</u>	<u>9</u>
LOS F	73	<u>66</u>	<u>102</u>	<u>49</u>

 ${\bf 2019~Future~without~the~Proposed~Actions} \\ {\bf Intersection~Approach~Movements~Operating~at~LOS~Mid-D,~E,~or~F^1}$

			Al	VI			Mic	dday			Р	M			Sati	ırday	
			V/C	Delay			V/C	Delay			V/C	Delay			V/C	Delay	
Intersection	Approach	Movt.	Ratio	Sec/Veh	LOS												
Sixth Avenue @ 28th Street	EB	LT	1.22	342.9	F	LT	1.20	335.5	F	LT	1.31	381.6	F	LT	1.07	281.3	F
Circle Accesses @ 20th Charact	EB	LT	1.41	380.2	F	LT	1.33	346.2	F	LT	1.28	318.7	F	LT	0.65	63.0	Е
Sixth Avenue @ 30th Street	NB	TR	1.01	86.3	F	TR	0.92	53.9	D					TR	1.01	84.2	F
	EB													Т	0.60	49.8	D
Sixth Avenue @ 34th Street	NB	Т	1.44	329.0	F	Т	1.18	207.0	F	Т	1.28	251.1	F	Т	1.29	251.1	F
	SB	Т	1.64	505.2	F	Т	1.54	461.4	F	Т	1.81	579.6	F	Т	1.36	384.1	F
Sixth Avenue @ 35th Street	WB	TR	0.96	52.0	D												
Sixth Avenue @ 36th Street	EB					L	0.94	81.6	F	L	1.01	128.0	F	L	1.15	228.1	F
Sixth Avenue @ 42nd St	WB	R	0.85	61.0	Е	R	0.82	50.1	D								
Seventh Avenue @ 23rd Street	EB	TR	0.93	46.8	D	TR	0.91	45.0	D								
Seventh Avenue @ 28th Street	EB	TR	0.95	328.7	F									TR	0.86	298.8	F
Seventh Avenue @ 29th Street	WB	LT	1.29	385.6	F	LT	1.46	451.8	F	LT	1.51	479.9	F	LT	1.04	219.9	F
Seventh Avenue @ 30th Street	EB	Т	1.35	427.0	F	Т	1.32	414.3	F	Т	1.25	372.4	F				
Sevenin Avenue @ 30th Street	ED									R	0.75	206.4	F				
Seventh Avenue @ 31st Street	WB	LT	1.29	365.9	F	LT	1.37	410.7	F	LT	1.21	332.1	F	LT	1.33	373.4	F
0 11 4 6 00 101 1	WB	LT	1.21	581.9	F	LT	1.48	671.2	F	LT	1.14	522.1	F	LT	1.13	459.6	F
Seventh Avenue @ 33rd Street	SB	TR	1.12	112.1	F	TR	1.02	75.7	Е	TR	1.08	95.3	F				
Seventh Avenue @ 34th Street	EB	Т	1.01	105.2	F	Т	0.89	46.2	D					TR	0.45	74.8	Е
Seventh Avenue @ 35th Street	WB	L	0.87	50.5	D												
Sevenin Avenue @ 35th Street	WB	LT	1.26	421.9	F	LT	1.05	266.7	F	LT	1.38	474.4	F	LT	0.89	47.8	D
Seventh Avenue @ 36th Street	EB	TR	1.26	436.5	F	TR	1.06	285.2	F	TR	1.26	415.8	F	TR	1.18	407.1	F
Seventh Avenue @ 37th Street	WB													LT	0.87	183.4	F
Seventh Avenue @ 38th Street	EB	TR	1.16	389.5	F									TR	0.95	269.4	F
Eighth Avenue @ 29th Street	WB	TR	1.26	389.9	F	TR	1.49	465.7	F	TR	1.80	625.3	F	TR	1.21	349.9	F
Eighth Avenue @ 30th Street	EB	LT	1.27	389.5	F	LT	1.21	365.8	F	LT	1.31	399.6	F	LT	1.02	131.5	F
Eighth Avenue @ 31st Street	WB					TR	1.10	367.0	F	TR	1.09	323.4	F	TR	1.08	337.9	F
Eighth Avenue @ 31st Street	NB									LT	1.09	120.7	F				
Eighth Avenue @ 33rd Street	NB	LT	1.09	138.5	F	LT	1.18	177.5	F	LT	1.26	212.8	F	LT	1.06	124.3	F
Eighth Avenue @ 34th Street	NB	LTR	1.10	147.6	F	LTR	1.13	153.7	F	LTR	1.12	147.9	F	LTR	1.04	116.9	F
Eighth Avenue @ 35th Street	WB	TR	1.73	660.4	F	TR	1.23	383.4	F	TR	1.69	639.1	F	TR	1.44	549.5	F
Eighth Avenue @ 36th Street	EB	L	1.05	341.6	F	LT	0.85	204.9	F	LT	1.43	509.3	F	LT	1.09	368.3	F
Eighth Avenue @ 36th Street	NB					TR	1.04	102.0	F								
Eighth Avenue @ 37th Street	WB									TR	0.95	47.3	D	TR	0.96	49.3	D
Eighth Avenue @ 38th Street	NB									TR	1.01	81.6	F	TR	0.94	49.2	D
Ninth Avenue @ 23rd Street	EB	TR	0.95	60.0	Е									TR	0.87	46.5	D
Militi Avellue & Zolu Street	SB													TR	1.06	116.2	F
Ninth Avenue @ 28th Street	EB	TR	1.21	388.3	F	TR	1.07	323.7	F	TR	0.94	53.6	D	TR	0.90	47.5	D
Ninth Avenue @ 29th Street	SB	TR	1.13	134.7	F	TR	1.13	133.8	F					TR	1.01	82.7	F
Ninth Avenue @ 30th Street	EB	TR	1.21	475.2	F	TR	1.15	492.2	F	TR	1.00	395.1	F				
TVIIIII AVEITUE & 30til 3tieet	SB	L	1.62	428.7	F	L	2.10	655.6	F	L	2.35	756.6	F	L	1.86	538.2	F
Ninth Avenue @ 31st Street	WB					LTR	1.01	97.3	F	LTR	1.47	509.3	F	LTR	1.03	175.9	F

¹ This table has been revised for the FEIS.

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Table 17-18 (cont'd)
2019 Future without the Proposed Actions
Intersection Approach Movements Operating at LOS Mid-D, E, or F

			A	VI	•		Mic	dday			PI	VI			Satı	ırday	
			V/C	Delay			V/C	Delay			V/C	Delay			V/C	Delay	
Intersection	Approach	Movt.	Ratio	Sec/Veh	109	Movt	Ratio	Sec/Veh	ıns	Movt	Ratio	Sec/Veh	108	Move		Sec/Veh	ıns
	• •																-
Ninth Avenue @ 33rd Street	WB	LT	1.03	193.7	F	LT	1.50	546.3	F	LT	1.75	633.6	F	LT	1.32	473.1	F
	EB	T	0.93	58.8	E	Т	0.84	46.3	D								
Ninth Avenue @ 34th Street		R	2.01	761.6	F	R	1.44	533.9	F	R	1.97	727.2	F				
William / Wellide & S-all Bareet	WB	DefL	0.88	58.7	Е					LT	1.08	330.0	F				
	SB	LTR	1.26	215.3	F	LTR	1.18	178.9	F	LTR	1.36	262.4	F				
Ninth Avenue @ 35th Street	WB	LT	1.59	606.3	F	LT	1.32	489.0	F	LT	1.59	604.5	F	LT	1.04	230.4	F
	EB	TR	1.10	180.6	F	TR	0.89	79.4	Е	TR	1.17	200.2	F	TR	1.06	165.0	F
Ninth Avenue @ 36th Street	SB	LT	1.10	113.1	F	LT	1.05	94.0	F	LT	1.01	79.8	Е				
	WB					LT	0.91	48.5	D	LT	1.17	463.9	F	LT	0.92	48.3	D
Ninth Avenue @ 37th Street							0.0.	10.0		TR		100.0			0.02	.0.0	
Timer / (Volido © O/ El Octobr	SB									(LnT)	1.21	253.4	F				
	EB	TR	1.20	483.9	F	TR	0.90	45.9	D	(=111)	1.21	200.4					
Ninth Avenue @ 38th Street		111	1.20	400.0		111	0.90	40.0									
Militi Avenue @ 36th Street	SB									T (1 nT)	4.46	238.7	F				
						TD	0.00	450.0	_	(LnT)	1.16	230.7	Г				
	EB	- "			_	TR	0.62	158.3	F								
Ninth Avenue @ 42nd Street	WB	DefL	1.12	566.4	F	DefL	1.15	689.8	F	DefL	1.38	802.7	<u>F</u>	DefL	1.05	294.7	F
	SB	LTR	1.09	138.9	F	LTR	1.19	181.2	F	LTR	1.17	168.9	F				
Tenth Avenue @ 26th Street	EB	LT	1.11	410.6	F	LT	1.16	409.7	F	LT	1.20	433.6	F	LT	0.89	50.6	D
Tenth Avenue @ 28th Street	EB	LT	1.40	534.0	F	LT	1.29	465.1	F	LT	1.04	225.7	F	LT	1.43	534.8	F
Tenth Avenue @ 29th Street	WB					TR	0.97	58.6	Е	TR	1.17	435.8	F				
	EB	LT	2.01	768.6	F	LT	2.87	1169.0	F	LT	2.90	1149.0	F	LT	1.70	608.4	F
Tenth Avenue @ 30th Street	NB					R	1.55	442.6	F	R	1.31	271.8	F	R	1.25	245.1	F
Tenth Avenue @ 31st Street	WB	R	1.26	348.8	F	R	2.24	867.2	F	R	2.39	857.9	F	R	1.28	369.6	F
Territi Averide & 313t Street	WB	TR	0.94	50.6	D	TR	0.97	55.7	E	11	2.55	037.3		- 1	1.20	309.0	Ė
Tenth Avenue @ 33rd Street		IK	0.94	30.6	D					1.7	4.00	450.0	_				
	NB	5 "				LT	1.07	153.7	F	LT	1.06	150.3	<u> F</u>	D (1			_
	EB	DefL	0.79	58.5	D	DefL	0.85	67.9	Е	DefL	1.00	101.2	F	DefL	0.83	59.6	Е
Tenth Avenue @ 34th Street	WB					R	1.27	483.7	F	R	2.30	874.8	F				
	NB					LTR	1.07	101.0	F	LTR	1.35	219.2	F				
Tenth Avenue @ 35th Street	WB	TR	1.53	443.1	F	TR	1.32	360.7	F	TR	1.04	227.2	F	TR	1.05	253.9	F
T	EB					LT	0.42	133.6	F								
Tenth Avenue @ 36th Street	NB					TR	1.05	91.0	F	TR	1.31	208.7	F				
Tenth Avenue @ 37th Street	NB									LT	1.67	375.4	F				
Tenth Avenue @ 38th Street	NB									TR	1.72	395.9	F				
Tenur/Wende @ Sour Greet	IND									T	2.00	1497.0	F				
Tanth Avanua @ 20th Ctrast	WB									R			F				
Tenth Avenue @ 39th Street	ND										1.82	1059.0					
	NB									LT	1.65	400.2	<u>F</u>				
Tenth Avenue @ 40th Street	EB									LT	0.44	64.0	E				
	NB									TR	1.65	393.8	F				
	WB									Т	1.25	510.0	F				
Tenth Avenue @ 41st Street	NB	L	0.88	45.9	F					L	1.55	469.6	F				
	IND									Т	1.04	106.2	F				
	EB	LT	2.05	750.4	F	LT	2.24	930.9	F	LT	1.88	647.7	F	LT	2.04	797.7	F
T		TR	1.06	296.4	F	TR	1.40	400.8	F					TR	1.47	458.5	F
Tenth Avenue @ 42nd Street	WB									Т							
										(LnT)	1.29	804.6	F				
	WB					TR	0.56	116.5	F								
Tenth Avenue @ 43st Street	NB	LT	1.23	177.9	F	LT	1.26	193.4	F					LT	1.02	86.0	F
Tenth Avenue @ 56th Street	EB		1.20	111.3			1.20	155.4						LT	0.95	61.1	E
Tellili Avellue @ Jolli Sileet		1 =	1.00	270 1	F	1 =	0.00	60.2	Е	ΙT	0.06	52.6	Г				-
Tenth Avenue @ 57st Street	EB	LT	1.08	370.1		LT	0.99	60.3	E	LT	0.96	52.6	D	LT	0.92	48.7	D
	WB	_	0	F / 0	_	TR	1.04	210.0	F	_	0.70	00.0	_				
Eleventh Avenue / Twelfth Ave @	SB (11th)	Г	0.57	54.2	D					Т	0.78	62.3	E				
22nd Street	` ′	TR	0.43	54.1	D					TR	0.65	63.4	Е				
ZZIIG Olicci	NB (9A)	Т	1.07	115.2	F	Т	1.05	111.8	F	Т	1.16	149.4	F	Т	1.13	141.5	F
Eleventh Avenue @ 24th Street	SB	TR	1.25	217.9	F	TR	1.40	283.7	F	TR	1.33	251.0	F				
Eleventh Avenue @ 26th Street	EB	TR	1.09	413.4	F	TR	0.92	67.6	Е	TR	1.12	405.6	F				
Eleventh Avenue @ 29th Street	WB									LT	1.02	138.4	F				
	EB	TR	1.05	261.8	F	TR	1.23	364.3	F	TR	0.98	59.5	Ē	TR	0.93	48.1	D
Eleventh Avenue @ 30th Street	SB	LT	1.05	124.2	F	LT	1.14	159.4	F	LT	1.05	117.8	F		0.00	.5	
						L	0.87	67.9	E				_				
Eleventh Avenue @ 33rd Street	WB					LT	0.87	52.5	D								
Florianth Avenue @ 0.445 Ct	WD					LI	0.91	52.5	ט	TD	0.00	E0.7	_				
Eleventh Avenue @ 34th Street	WB									TR	0.90	50.7	D				

Table 17-18 (cont'd) 2019 Future without the Proposed Actions

Intersection Approach Movements Operating at LOS Mid-D, E, or F

					11 / 1	ppro			шен	i w		mg at	<u> </u>	0 111			
			Al					dday			PI	M				urday	
			V/C	Delay			V/C	Delay			V/C	Delay			V/C	Delay	
Intersection	Approach	Movt.	Ratio	Sec/Veh	LOS	Movt.	Ratio	Sec/Veh	LOS	Movt.	Ratio	Sec/Veh	LOS	Movt.	Ratio	Sec/Veh	LOS
Flavorth Avenue @ 27th Ctroot	WD	L	0.75	54.0	D	L	0.81	61.4	Е	L	0.77	54.8	D				
Eleventh Avenue @ 37th Street	WB	R	0.68	49.4	D									R	0.66	45.7	D
FI	NB									TR	1.31	523.6	F				
Eleventh Avenue @ 38th Street	SB	LT	1.09	115.1	F												
Eleventh Avenue @ 39th Street	NB									Т	1.08	448.4	F				
	EB									TR	0.94	75.5	Ē				
Eleventh Avenue @ 40th Street	NB									R	1.07	255.8	F				
Lievenin Avenue & 40th Street	SB									L	1.00	130.0	F				-
	OD									T	1.00	130.0					
Eleventh Avenue @ 41st Street	SB									(LnT)	1.16	172.9	F				
	EB									(=111)	1.10	172.5		TR	0.91	46.0	D
										L	0.43	235.2	F	110	0.51	40.0	
	WB									LT			F				_
Eleventh Avenue @ 42nd Street		LT	1.00	45.0	_	1.7	1.01	110.0	_	LI	0.51	103.7	Г				-
Eleveritii Averiue @ 42iiu Street		LI	1.00	45.0	D	LT	1.01	110.8	F	_	0.00	70.7					_
	SB					R	0.74	46.7	D	R	0.92	78.7	Е				-
										LT	4 04	074.4	_				
	NA/P					1.	0.00	40.0	_	(LnT)	1.31	271.1	F				-
E 6 40 10	WB					LT	0.83	46.3	D	_							
Eleventh Avenue @ 43rd Street	SB									T (1 - T)	4.00	050.0	_				
			1.00	=00.0	_			45.0	_	(LnT)	1.26	259.3	F				
	EB	LTR	1.26	593.6	F	LTR	0.82	45.9	D	LTR	1.13	503.4	F				
Eleventh Avenue @ 44th Street										Т	1.26	170.0	F				
	SB									_ T			_				
										(LnT)	1.26	260.4	F				
Eleventh Avenue @ 47th Street	WB	LTR	0.98	71.2	E	LTR	0.98	68.6	E	LTR	0.93	55.8	Е	LTR	0.89	51.4	D
Ziovonar/Worldo @ 1741 Guode	SB									TR	1.04	82.0	F				
Eleventh Avenue @ 54th Street	EB	LTR	1.49	535.4	F	LTR	0.92	67.5	E	LTR	0.89	63.0	Е				
Lieveriii Averide & 54ii Street	NB	L	0.84	57.0	Е					L	1.50	549.8	F	L	0.83	51.6	D
Eleventh Avenue @ 56th Street	EB	LTR	1.08	290.9	F												
	EB	L	1.14	631.9	F												
	ED	TR	1.20	384.8	F	TR	0.94	63.4	Е	TR	1.24	492.3	F	TR	0.90	58.4	Е
	WD	L	1.03	204.8	F	L	1.21	599.3	F					L	1.22	569.2	F
Eleventh Avenue @ 57th Street	WB													TR	1.69	662.0	F
	NB					L	0.90	98.7	F	L	1.15	351.8	F	L	1.27	210.0	F
	0.0	L	1.52	491.5	F	L	1.06	105.4	F	L	1.65	506.6	F	L	0.89	62.1	Е
	SB	TR	1.24	138.6	F	TR	1.01	54.5	D	TR	1.13	95.3	F				
		L	0.56	70.3	Е	L	0.51	47.4	D	L	0.67	71.0	Е	L	0.50	46.8	D
	WB	LTR	0.49	67.7	E	LTR	0.49	47.4	D	LTR	0.66	71.0	Е	LTR	0.53	48.0	D
		R	0.49	68.4	Е	R	0.49	47.9	D	R	0.69	72.9	Е	R	0.50	47.9	D
Twelfth Avenue @ 24th Street	NB	TR	1.01	82.1	F	TR	1.02	102.9	F	TR	1.13	134.2	F	TR	1.11	129.5	F
		L	1.09	506.5	F	L	0.79	91.6	F	L	0.76	103.1	F	L	1.09	489.0	F
	SB		1.03	500.5	-	Ť	1.13	177.6	F	_	0.70	100.1			1.03	400.0	Ė
Twelfth Avenue @ 29th Street	WB	LR	1.62	840.6	F	LR	1.51	772.5	F	LR	2.01	1029.0	F	LR	1.37	673.5	F
Twelfth Avenue @ 30th Street	SB	L	1.25	377.3	F	LIX	1.37	388.4	F	L	1.39	446.8	F	LIN	1.20	342.7	F
I Wellin Avenue & Join Sileet	30	L	0.43	58.8	E		1.37	300.4		L	0.47	59.4	E		1.20	374.1	+
	WB	LR	0.43	58.5	E					LR	0.47	58.6	E				
Twelfth Avenue @ 34th Street	VVD	LK	0.43	50.5													
	CD.	 	0.00	60.0	-		0.70	60.0	F	R	0.59	49.6	D F		0.07	74.4	_
	SB	L	0.60	63.3	E	L	0.72	62.0	Е	<u> </u>	1.13			L	0.87	74.1	E
- - - - - - - - - -	EB	LR	0.13	52.8	D					LR	0.26	60.7	E				
Twelfth Avenue @ Pier 79 Ferry		R	0.12	52.9	D		0.00	FC 1	_	R	0.25	62.0	E		0.00	F4.0	
Terminal	NB	L	0.10	63.7	E	L	0.20	50.4	D	L	0.30	72.6	Е	L	0.26	51.6	D
	SB	TR	1.16	150.1	F	TR	1.10	128.2	F				ليتا	TR	1.17	153.5	F
	EB									LR	0.06	47.3	D				
	WB	L	0.09	50.8	D					L	0.08	60.0	E				
Twelfth Avenue @ 41st Street		R	0.41	56.8	Е					R	0.47	67.8	Е				
	NB	Т	1.15	157.1	F	T	1.10	138.4	F	Т	1.02	81.2	F	Т	1.06	120.3	F
	SB	Т	1.16	126.2	F	Т	1.10	107.6	F	Т	1.06	77.8	Е	Т	1.14	117.9	F
	EB	LTR	0.04	46.2	D					LTR	0.08	46.7	D				
	WD	L	0.32	52.2	D	L	0.60	45.7	D	L	0.66	65.3	Е				
Twelfth Avenue @ 42nd Street	WB									R	0.85	66.0	Е				
	NB	Т	0.98	53.4	D	Т	1.12	141.5	F					Т	1.19	167.8	F
	SB	L	0.74	63.1	Е					L	1.34	434.1	F	L	0.76	52.5	D
					•						•						

Table 17-18 (cont'd) 2019 Future without the Proposed Actions

Intersection Approach Movements Operating at LOS Mid-D, E, or F

			Al					dday			PI	M				ırday	
			V/C	Delay			V/C	Delay			V/C	Delay			V/C	Delay	
Intersection	Approach	Movt.	Ratio	Sec/Veh	LOS	Movt.	Ratio	Sec/Veh	LOS	Movt.	Ratio	Sec/Veh	LOS	Movt.	Ratio	Sec/Veh	LOS
	WB	LTR	0.78	72.8	Е	LTR	0.76	53.6	D	LTR	1.00	108.4	F	LTR	0.69	49.4	D
Twelfth Avenue @ 43th Street	NB	┙	1.00	172.9	F	┙	0.33	59.2	Е	L	0.16	68.0	Е	L	0.10	52.3	D
	SB													Т	1.03	82.9	F
Twelfth Avenue @ 44th Street	SB	L	1.09	291.7	F	L	0.96	81.9	F	L	1.02	189.3	F	L	0.94	79.0	Е
	EB	LTR	0.28	56.6	Е					LTR	0.17	51.9	D				
Twelfth Avenue@ 46th Street	NB	TR	0.97	108.8	F	TR	1.13	177.9	F	TR	1.14	166.6	F	TR	1.11	166.2	F
	SB	L	0.58	72.7	Е	L	0.65	76.4	Е	L	0.64	86.1	F	L	0.84	97.2	F
	WB	R	0.53	61.5	Е					R	0.81	82.0	F	R	0.52	45.7	D
Twelfth Avenue @ 54th Street	NB	TR	1.02	105.4	F	TR	1.05	118.1	F	TR	1.24	192.7	F				
Twentit / tvende @ 5-til Olicet	SB	L	0.72	69.3	Е					L	0.52	60.4	Е				
	OB	Т	1.19	133.4	F												
Twelfth Avenue @ 56th Street (SR)	NB	TR	0.94	58.4	Е												
Twelfth Avenue @ 56th Street	NB	T	1.17	169.7	F					Т	1.24	165.7	F				
Twenth Avenue @ 56th Street	SB	L	1.00	56.9	Е	L	1.20	479.2	F	L	1.12	391.4	F	L	0.86	62.0	Е
Twelfth Avenue @ 57th Street	WB									R	0.64	239.4	F				
Broadway @ 35th Street	WB	Т	1.59	320.5	F	Т	1.29	193.9	F	Т	1.51	286.1	F	Т	1.15	134.5	F
Broadway @ 42nd Street	WB	DefL	1.36	654.9	F	DefL	0.84	51.9	D								
Dyer Ave @ 31st Street	WB									LTR	0.86	52.5	D				
Byel 7We @ 013t Officet	SB									TR	0.91	50.3	D				
	WB									R	2.76	1350.0	F				
Dyer Ave @ 34th Street		L	0.98	93.1	F	L	0.61	46.2	D	L	0.79	59.2	Е				
Byci Ave & 54th officer	SB	LR	0.99	96.1	F	LR	0.60	46.4	D	LR	0.80	61.0	Е				
		R	0.99	100.3	F	R	0.61	47.5	D	R	0.80	63.6	Е				
Dyer Ave @ 35th Street	WB									LTR	0.76	196.7	F				
Dyer Ave @ 36th Street	EB	LTR	0.78	96.3	F	LTR	0.78	97.6	F	LTR	0.92	159.4	Е				
<u> </u>	NB									TR	1.68	559.7	F				
Dyer Avenue @ 41st Street	WB									TR	1.32	495.5	D				
Dyer Avenue @ 42nd Street	WB									T (LnT)	1.57	1378.0	F				
				Ur	signa	lized l	ntersed	tions									
Twelfth Avenue @ 33rd Street	WB									R	0.91	61.7	F				
Twelfth Avenue @ 47th Street	WB					R	0.61	31.5	D	R	1.87	456.6	F	R	0.98	104.5	F

Notes:
Shading indicates movement not at LOS Mid-D, E, or F.
Delay Calculated at greater than 300 seconds is considered unreliable LOS = Level of Service
EB - Eastbound, WB - Westbound, NB - Northbound, SB - Southbound L - Left, T- Through, R - Right, DefL - De Facto Left Turn (LnT) - Lincoln Tunnel approach lane(s)

 ${\bf 7able~17-19} \\ {\bf 2017~Future~without~the~Proposed~Actions} \\ {\bf Intersection~Approach~Movements~Operations~at~LOS~Mid-D,~E~or~F}^1$

				λM		$\overline{}$	Mic	dday				PM		T T	Satı	urday	
		-	V/C	Delay			V/C	Delay			V/C	Delay	1	†	V/C	Delay	T
Intersection	Approach	Movt.	Ratio	Sec/Veh	LOS	Movt.	Ratio	Sec/Veh	LOS	Movt.	Ratio	Sec/Veh	LOS	Movt.	Ratio		LOS
Sixth Avenue @ 28th Street	EB	LT	1.21	340.7	F	LT	1.19	333.4	F	LT	1.31	380.1	F	LT	1.06	280.2	F
CIXIII AVCITAC & ZOTII GITCCT	EB	LT	1.40	377.7	F	LT	1.32	345.6	F	LT	1.28	317.0	F	LT	0.64	62.8	E
Sixth Avenue @ 30th Street	NB	TR	1.01	85.1	F	TR	0.91	52.3	D		1.20	317.0	L		0.04	02.0	<u> </u>
	EB	110	1.01	00.1	Ė	- 111	0.91	32.3							0.59	49.4	D
Sixth Avenue @ 34th Street	NB	Т	1.44	326.1	F	Т	1.18	204.6	F	Т	1.27	248.5	F	Η̈́	1.28	248.3	F
Sixiii Averide @ 34iii Street	SB	Ť	1.63	501.4	F	Ť	1.54	460.2	F	T	1.80	574.5	F	T T	1.35	381.7	F
Citab Assesse @ 25th Ctroop		TR	0.95		D		1.54	460.2			1.60	574.5			1.35	301.7	
Sixth Avenue @ 35th Street	WB	IK	0.95	50.7			0.04	00.7			4.04	407.4	_	-	4.44	000.7	+-
Sixth Avenue @ 36th Street	EB		0.00	00.5	_	L	0.94	80.7	F	L	1.01	127.1	F	L	1.14	226.7	F
Sixth Avenue @ 42nd Street	WB	R	0.86	62.5	E	R	0.84	54.1	D								-
Seventh Avenue @ 23rd Street	EB	TR	0.92	46.0	D										0.05	205.5	-
Seventh Avenue @ 28th Street	EB	TR	0.95	326.3	F			110.0			1.50	.== .	_	TR	0.85	295.5	F
Seventh Avenue @ 29th Street	WB	LT	1.28	381.7	F	LT	1.44	446.2	F	LT	1.50	477.4	F	LT	1.03	184.3	F
Seventh Avenue @ 30th Street	EB	T	1.34	424.5	F	T	1.32	414.3	F	Т	1.25	370.8	F				
										R	0.75	204.7	F				
Seventh Avenue @ 31st Street	WB	LT	1.29	365.2	F	LT	1.36	406.2	F	LT	1.20	329.5	F	LT	1.33	370.1	F
Seventh Avenue @ 33rd Street	WB	LT	1.21	577.2	F	LT	1.47	666.0	F	LT	1.14	520.9	F	LT	1.12	455.3	F
Seventi Avenue & Sold Stietet	SB	TR	1.11	108.4	F	TR	1.01	72.7	Е	TR	1.07	91.2	F				
Seventh Avenue 34th Street	EB	Т	1.00	68.5	Е	Т	0.89	45.7	D					TR	0.45	74.6	Е
Seventh Avenue @ 35th Street	WB	L	0.87	50.1	D												
Sevenin Avenue @ 35th Street	WD	LT	1.25	419.1	F	LT	1.03	187.9	F	LT	1.37	476.5	F	LT	0.88	46.6	D
Seventh Avenue @ 36th Street	EB	TR	1.24	430.7	F	TR	1.04	209.5	F	TR	1.24	408.6	F	TR	1.16	397.7	F
Seventh Avenue @ 37th Street	WB													LT	0.87	181.5	F
Seventh Avenue @ 38th Street	EB	TR	1.15	386.1	F									TR	0.94	263.0	F
Eighth Avenue @ 29th Street	WB	TR	1.25	385.8	F	TR	1.48	461.7	F	TR	1.79	620.9	F	TR	1.20	345.5	F
Eighth Avenue @ 30th Street	EB	LT	1.26	385.2	F	LT	1.20	360.5	F	LT	1.30	394.6	F	LT	1.01	92.5	F
	WB		1.20	000.2		TR	1.08	357.1	F	TR	1.08	317.9	F	TR	1.06	330.8	F
Eighth Avenue @ 31st Street	NB						1.00	007.1		LT	1.09	118.0	F		1.00	000.0	Ė
Eighth Avenue @ 33rd Street	NB	LT	1.08	134.4	F	LT	1.17	171.9	F	LT	1.25	207.0	F	LT	1.04	119.8	F
Eighth Avenue @ 34th Street	NB	LTR	1.10	145.1	F	LTR	1.12	150.5	F	LTR	1.11	144.4	F	LTR	1.03	114.5	F
Eighth Avenue @ 35th Street	WB	TR	1.72	652.1	F	TR	1.12	375.4	F	TR	1.66	626.1	F	TR	1.43	546.3	F
Ligititi Averide @ 35til Street	EB	LT	1.04	338.0	F	LT	0.84	200.9	F	LT	1.41	504.0	F	LT	1.08	363.5	F
Eighth Avenue @ 36th Street	NB	L1	1.04	336.0		TR	1.03	99.1	F	LI	1.41	304.0		<u> </u>	1.00	303.3	
Fishel Assess @ 27th Ctreet					 	IK	1.03	99.1		TD	0.05	40.0		TD	0.00	40.0	
Eighth Avenue @ 37th Street	WB				\vdash					TR	0.95	46.2	D	TR	0.96	48.6	D
Eighth Avenue @ 38th Street	NB	TD	0.01											TR	0.93	45.9	D
Ninth Avenue @ 23rd Street	EB	TR	0.94	59.0	E									TR	0.86	46.2	D
	SB													TR	1.06	114.4	F
Ninth Avenue @ 28th Street	EB	TR	1.21	386.6	F	TR	1.06	300.2	F	TR	0.94	53.3	D	TR	0.90	46.9	D
Ninth Avenue @ 29th Street	SB	TR	1.13	132.7	F	TR	1.13	131.8	F					TR	1.01	81.8	F
Ninth Avenue @ 30th Street	EB	TR	1.21	472.4	F	TR	1.14	489.2	F	TR	0.99	388.5	F				
	SB	L	1.62	428.7	F	L	2.10	653.6	F	L	2.33	751.2	F	L	1.85	534.8	F
Ninth Avenue @ 31st Street	WB					LTR	1.00	62.2	Е	LTR	1.46	504.8	F	LTR	1.02	136.4	F
Ninth Avenue @ 33rd Street	WB	LT	1.02	154.6	F	LT	1.48	542.6	F	LT	1.73	623.7	F	LT	1.31	470.1	F
	ED	Т	0.92	56.6	Е	T	0.83	46.0	D								
Ninth Avenue @ 24th Street	EB	R	2.00	759.2	F	R	1.44	533.9	F	R	1.96	719.1	F				
Ninth Avenue @ 34th Street	WB	DefL	0.87	57.2	Е					LT	1.08	327.8	F				
	SB	LTR	1.25	213.2	F	LTR	1.18	176.7	F	LTR	1.36	260.5	F				
Ninth Avenue @ 35th Street	WB	LT	1.59	604.0	F	LT	1.32	487.9	F	LT	1.59	602.2	F	LT	1.04	229.7	F
	EB	TR	1.09	177.2	F	TR	0.87	73.9	E	TR	1.16	194.1	F	TR	1.05	160.4	F
Ninth Avenue @ 36th Street	SB	LT	1.10	111.7	F	LT	1.05	92.8	F	LT	1.01	78.7	E				
	WB					LT	0.90	47.6	D	LT	1.16	459.1	F	LT	0.92	47.3	D
Ninth Avenue @ 37th Street							5.50			TR		.55.1	Ė		5.02		Ť
	SB									(LnT)	1.18	244.1	F				
	EB	TR	1.19	479.0	F	TR	0.90	45.2	D	(=.11)		1.1					
Ninth Avenue @ 38th Street			1.15	1, 5.0			0.00	10.2		Т							
.4	SB									(LnT)	1.15	232.9	F				
	EB					TR	0.62	156.1	F	(111)	1.10	202.3	É				
Ninth Avenue @ 42nd Street	WB	DefL	1.11	535.4	F	DefL	1.15	684.5	F	DefL	1.37	798.4	F	DefL	1.04	239.9	F
Minut Avenue @ 42nu Street		_												Deil	1.04	239.9	
Tareth Assessed @ OCAL Count	SB	LTR	1.08	135.1	F	LTR	1.18	176.0	F	LTR	1.15	161.5	F	I.T.	0.00	40.2	
Tenth Avenue @ 26th Street	EB	LT	1.10	407.0	F	LT	1.15	405.1	F	LT	1.18	424.8	F	LT	0.88	49.3	D
Tenth Avenue @ 28th Street	EB	LT	1.40	534.2	F	LT	1.29	464.0	F	LT	1.04	225.7	F	LT	1.43	532.6	F
Tenth Avenue @ 29th Street	WB					TR	0.97	56.7	E	TR	1.17	433.1	F				

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¹ This table has been revised for the FEIS.

Table 17-19
2017 Future without the Proposed Actions
Intersection Approach Movements Operations at LOS Mid-D, E or F

Marcheselson						ΗА	hhro		vioven	ICII	s Op			ıL	JO 1V.			
Intersection						1				1								
Terith Avenue @ 31st Sineet NB	Intersection	Approach	Movt.			LOS	Movt.			LOS	Movt.			LOS	Movt.			LOS
Tenth Avenue @ 31d Street Mile	Tenth Avenue @ 30th Street		LT	1.99	762.9	F									_			
Tenth Avenue 8 33rd Street Fig. 1.50 Fig.			D	1.05	244.0	-												
Tenth Avenue @ 34th Street											K	2.31	049.1	Г	ĸ	1.20	360.5	Г
Tenth Avenue @ 34th Street	Tenth Avenue @ 33rd Street			0.00	1919	_					LT	1.06	148.0	F				
Tenth Avenue @ 38th Street			DefL	0.78	57.7	D									DefL	0.82	58.1	Е
Tenth Avenue @ 36th Street	Tenth Avenue @ 34th Street																	
Tenth Avenue @ 37th Street	Tenth Avenue @ 35th Street		TR	1.50	428 7	F									TR	1 04	229.0	F
Tenth Avenue @ 37th Street NB NB NB NB NB NB NB NB NB N				1.00	12011								100.0	·	111	1101	220.0	·
Terth Avenue @ 38th Street WB							TR	1.04	88.6	F								
Terth Avenue @ 34th Street Terth Avenue @ 40th Street B Terth Avenue @ 40th Street NB Terth Avenue @ 40th Street EB Terth Avenue @ 50th Street Terth Avenue @ 50t																		
Tenth Avenue @ 39th Street NB NB NB NB NB NB NB NB NB N	Tenth Avenue @ 38th Street																	
Tenth Avenue @ 41st Street Tenth Avenue @ 41st Street NB NB NB NB NB NB NB NB NB N	Tenth Avenue @ 39th Street	WB																
Tenth Avenue @ 4th Street																		
Tenth Avenue @ 41st Street	Tenth Avenue @ 40th Street																	
Tenth Avenue @ 41st Street																		
Figure F	Tenth Avenue @ 41st Street																	
Tenth Avenue @ 42nd Street WB		NB																
Fernit Avenue @ 42nd Street		EB									LT	1.81	606.9	F				
Terth Avenue @ 43st Street	Tenth Avenue @ 42nd Street	WB	TR	1.03	180.6	F	TR	1.35	382.1	F	т				TR	1.44	441.5	F
Figure Color Col		VVD									-	1.28	793.6	F				
Tenth Avenue @ 56th Street	Tenth Avenue @ 43st Street						TR	0.56										
EB			LT	1.22	171.1	F	LT	1.25	189.9	F								
Eleventh Avenue @ 37st Street WB SB (111h) T	Tenth Avenue @ 56th Street		ıT	1.01	95.0	E									LI	0.93	58.4	E
Eleventh Avenue Twelfth Avenue SB (11th) TR 0.55 53.8 D	Tenth Avenue @ 57st Street		LI	1.01	93.0	'	TR	0.98	52.5	D								
22nd Street	Floventh Avenue / Twelfth Ave @		Т	0.55	53.8	D					T	0.77	61.6	Е				
Eleventh Avenue @ 24th Street																		
Eleventh Avenue @ 26th Street															Т	1.11	132.4	F
Eleventh Avenue @ 39th Street Eleventh Avenue @ 30th Street Eleventh Avenue @ 30th Street Eleventh Avenue @ 37th Street Eleventh Avenue @ 38th Street Eleventh Avenue @ 38th Street Eleventh Avenue @ 38th Street Eleventh Avenue @ 39th Street Eleventh Avenue @ 38th Street Eleventh Avenue @ 39th Street Eleventh Avenue @ 38th Street Eleventh Avenue @ 40th Street Eleventh Avenue @ 40th Street BB EB EB EB EB EB EB EB EB E															TR	0.92	46.6	D
Eleventh Avenue @ 30th Street Eleventh Avenue @ 37th Street Eleventh Avenue @ 37th Street WB SB LT 1.08 109.5 F LT 1.08 109.5 F LT 1.08 109.5 F LT 1.08 109.5 F LT 1.09 10.81					-				44	_						****		
Eleventh Avenue @ 33rd Street WB L 1.06 126.2 F L1 1.13 155.5 F L1 1.04 116.6 T T T T T T T T T	Fleventh Avenue @ 30th Street																	
Eleventh Avenue @ 34th Street WB			LT	1.06	126.2	F					LT	1.04	116.6	F				
Eleventh Avenue @ 37th Street WB L 0.75 53.1 D L 0.81 60.1 E L 0.77 53.9 D R 0.65 45.1 D								0.73	40.5	D	TR	0.90	50.0	D				
Eleventh Avenue @ 38th Street NB SB LT 1.08 109.5 F SB SB LT 1.08 109.5 F SB SB SB SB SB SB SB			L	0.75	53.1	D	L	0.81	60.1	Е								
Eleventh Avenue @ 38th Street Eleventh Avenue @ 39th Street Eleventh Avenue @ 42nd Street Eleventh Avenue @ 43rd Street Eleventh Avenue @ 44th Street Eleventh Avenue @ 47th Street WB Eleventh Avenue @ 47th Street Eleventh Avenue @ 47th Street Eleventh Avenue @ 47th Street WB Eleventh Avenue @ 47th Street Eleventh Avenue @ 47th Street Eleventh Avenue @ 47th Street WB Eleventh Avenue @ 47th Street Elev	Eleventh Avenue @ 37th Street		R	0.67	49.0	D									R	0.65	45.1	D
Eleventh Avenue @ 39th Street NB EB	Eleventh Avenue @ 38th Street		1.7	4.00	400.5	_					TR	1.29	514.4	F				
Eleventh Avenue @ 40th Street EB	Fleventh Avenue @ 39th Street		LI	1.08	109.5	Г					Т	1.07	446.0	F				
Eleventh Avenue @ 41st Street SB	2.2																	
Eleventh Avenue @ 41st Street SB BB BB BB BB BB BB BB BB B	Eleventh Avenue @ 40th Street																	
Eleventh Avenue @ 41st Street		SB										1.00	126.4	F				
EB WB	Eleventh Avenue @ 41st Street	SB										1.15	169.3	F				
Eleventh Avenue @ 42nd Street Barrier Beleventh Avenue @ 43rd Street Barrier Beleventh Avenue @ 43rd Street Barrier Beleventh Avenue @ 44th Street Barrier Beleventh Avenue @ 47th Street		EB									/				TR	0.91	45.8	D
Eleventh Avenue @ 42nd Street SB WB LT 0.99 102.6 R 0.74 46.7 D R 0.92 78.7 E LT (LnT) 1.29 264.9 F Eleventh Avenue @ 43rd Street SB Eleventh Avenue @ 43rd Street SB Eleventh Avenue @ 44th Street SB Eleventh Avenue @ 44th Street SB WB LTR 0.97 68.8 E LTR 0.96 63.7 E LTR 0.99 102.6 F CLT (LnT) 1.29 264.9 F CLT (LnT) 1.26 257.9 F CLT CLT (LnT) 1.26 257.9 F CLT CLT CLT CLT CLT CLT CLT		WB																
SB	Fleventh Avenue @ 42nd Street						ΙŦ	0.00	102.6	_	LT	0.49	98.4	F				
SB	Eleverith Avenue @ 42nd Street										R	0.92	78.7	F				
WB LTR 1.26 597.3 F LTR 0.82 45.9 D LTR 1.26 257.9 F LTR 1.26 LTR LT		SB					-11	0.14	70.7	٦		0.32	10.1					
SB												1.29	264.9	F				
SB C C C C C C C C C	Florenth Avenue @ 42rd Street	WB					LT	0.83	46.0	D	-							
EB LTR 1.26 597.3 F LTR 0.82 45.9 D LTR 1.13 504.4 F Steet BB LTR 1.26 597.3 F LTR 0.82 45.9 D LTR 1.13 504.4 F Steet BB LTR 1.26 597.3 F LTR 0.82 45.9 D LTR 1.13 504.4 F Steet BB LTR 1.26 597.3 F LTR 0.82 45.9 D LTR 1.24 160.1 F Steet BB LTR 1.26 597.3 F LTR 0.86 48.7 D Steet BB LTR 1.26 597.3 F LTR 0.86 48.7 D STEET	Eleveniin Avenue @ 43rd Street	SB										1,26	257.9	F				
SB SB SB SB SB SB SB SB		EB	LTR	1.26	597.3	F	LTR	0.82	45.9	D								
SB	Eleventh Avenue @ 44th Street											1.24	160.1	F				
Eleventh Avenue @ 47th Street		SB										1 26	250.0	F				
Fleventh Avenue (0) 4/th Street	FI	WB	LTR	0.97	68.8	Е	LTR	0.96	63.7	Е					LTR	0.86	48.7	D
	Eleventh Avenue @ 47th Street																	

Table 17-19 2017 Future without the Proposed Actions Intersection Approach Movements Operations at LOS Mid-D, E or F

	1					PP-0		VIO VCII		~ ~ <u>r</u>			•				
			V/C	M			V/C	Iday			V/C	PM	1		V/C	ırday	_
Intersection	Approach	Movt.	Ratio	Delay Sec/Veh	LOS	Movt.	Ratio	Delay Sec/Veh	LOS	Movt.	Ratio	Delay Sec/Veh	LOS	Movt.		Delay Sec/Veh	1.08
intersection	EB	LTR	1.45	518.1	F	LTR	0.87	60.4	E	LTR	0.85	57.3	E	WOVE.	Ratio	OCC/ VCII	
Eleventh Avenue @ 54th Street	NB	LIK	1.43	316.1	Г	LIK	0.67	00.4		LIK	1.33	448.6	F				
Eleventh Avenue @ 56th Street	EB	LTR	1.07	286.7	F						1.55	440.0	'				_
Eleverian Avenue @ 30th Street	LD	L	1.09	443.4	F												_
	EB	TR	1.19	381.3	F	TR	0.93	62.4	Е	TR	1.22	481.5	F	TR	0.90	57.1	Е
		L	1.03	203.4	F	L	1.18	585.8	F	110	1.22	401.0	'	L	1.20	560.1	F
Eleventh Avenue @ 57th Street	WB	_	1.00	200.1		_	1.10	000.0						TR	1.60	616.0	F
2.010.11.7110.1100 (3 07 11.1 01.100)	NB						0.71	54.0	D	1	1.14	163.7	F	L	0.97	100.5	F
	SB	L	1.18	266.1	F		0.7 1	00		L	1.25	316.5	F	_	0.07	100.0	<u> </u>
	- 55	TR	1.12	88.4	F					TR	1.04	63.3	E				
		L	0.51	67.8	Ē	L	0.49	46.9	D	L	0.67	71.0	Ē	L	0.51	47.0	D
	WB	LTR	0.51	68.1	Е	LTR	0.50	47.7	D	LTR	0.67	72.1	Е	LTR	0.51	47.6	D
		R	0.51	69.3	Е	R	0.49	47.8	D	R	0.67	71.0	Е	R	0.52	48.4	D
Twelfth Avenue @ 24th Street	NB		0.0				41.10			TR	1.11	125.9	F	TR	1.09	120.9	F
		L	1.08	452.5	F	L	0.79	91.6	F	L	0.76	102.1	F	L	1.07	401.4	F
	SB					Т	1.11	166.9	F								
Twelfth Avenue @ 29th Street	WB	LR	1.61	831.7	F	LR	1.49	763.4	F	LR	1.99	1017.0	F	LR	1.35	664.7	F
Twelfth Avenue @ 30th Street	SB	L	1.21	364.6	F	L	1.32	370.3	F	L	1.34	427.2	F	L	1.16	328.7	F
		L	0.45	59.7	Е					L	0.49	59.9	Е				
Twelfth Avenue @ 24th Others	WB	LR	0.46	59.8	Е					LR	0.47	59.4	Е				
Twelfth Avenue @ 34th Street										R	0.57	48.6	D				
	SB	L	0.60	63.2	Е	L	0.72	61.8	Е	L	1.12	591.3	F	L	0.86	73.5	Е
		LR	0.13	52.6	D					LR	0.25	60.5	Е				
Twelfth Avenue @ Pier 79 Ferry	EB	R	0.13	53.2	D					R	0.25	61.9	Е				
Terminal	NB	L	0.10	63.7	Е	L	0.20	50.4	D	L	0.30	72.6	Е	L	0.26	51.6	D
	SB	TR	1.13	139.7	F	TR	1.08	117.3	F					TR	1.15	142.6	F
	EB									LR	0.06	47.3	D				
	WB	L	0.09	50.8	D					L	0.08	60.0	Е				
Twelfth Avenue @ 41st Street	WD	R	0.41	56.8	E					R	0.47	67.7	Е				
	NB	Т	1.13	148.1	F	Т	1.07	126.6	F	Т	1.01	75.9	Е	Т	1.03	112.1	F
	SB	Т	1.14	115.7	F	Т	1.08	96.2	F	Т	1.04	70.2	Е	Т	1.11	108.1	F
	EB	LTR	0.04	46.2	D					LTR	0.08	46.7	D				
	WB	L	0.32	52.2	D	L	0.60	45.6	D	L	0.66	65.1	Е				
Twelfth Avenue @ 42nd Street										R	0.84	65.3	E				
	NB	Т	0.97	49.9	D	Т	1.09	129.7	F					Т	1.16	156.3	F
	SB	L	0.74	63.0	Е					L	1.33	432.7	F	L	0.76	52.3	D
	WB	LTR	0.78	72.6	Е	LTR	0.76	53.3	D	LTR	1.00	107.7	F	LTR	0.69	49.3	D
Twelfth Avenue @ 43th Street	NB	L	0.97	165.9	F	L	0.33	59.2	Е	L	0.16	68.0	Е	L	0.10	52.3	D
	SB													Т	1.01	77.0	Е
Twelfth Avenue @ 44th Street	SB	L	1.09	291.7	F	L	0.96	81.9	F	L	1.02	189.3	F	L	0.94	78.4	Е
	EB	LTR	0.28	56.5	E					LTR	0.17	51.9	D				
Twelfth Avenue@ 46th Street	NB	TR	0.95	99.6	F	TR	1.10	168.1	F	TR	1.12	158.6	F	TR	1.09	157.3	F
	SB	L	0.58	72.7	E	L	0.64	75.7	Е	L	0.63	85.0	F	L	0.83	94.9	F
	WB	R	0.52	61.4	E	TO	4.00	440.0	-	R	0.81	81.6	F	R	0.52	45.6	D
Twelfth Avenue @ 54th Street	NB	TR	1.01	72.2	E	TR	1.03	110.8	F	TR	1.23	185.2	F				-
	SB	L	0.70	68.0	E					L	0.49	59.4	Е				-
Turnith Assesse @ Foth Others (OD)		T	1.18	129.9	F												-
Twelfth Avenue @ 56th Street (SR)	NB	TR	0.93	55.4	E					-	1.00	160.0	-				
Twelfth Avenue @ 56th Street	NB	T	1.15	164.0	F		4.10	474.0	-		1.23	160.3	F		0.05	04.0	-
	SB	L	0.99	55.5	E	L	1.19	474.3	F	L	1.11	387.3	F	L	0.85	61.2	E
Twelfth Avenue @ 57th Street	WB	-	1.50	240.4	_	-	1.00	100.4	_	R	0.62	230.9	F	-	1 1 1	124.0	_
Broadway @ 35th Street	WB	T	1.58	316.4	F	T Defi	1.28	188.1	F	T	1.49	279.9	F	Т	1.14	131.2	F
Broadway @ 42nd Street	WB WB	DefL	1.34	647.7	F	DefL	0.83	50.6	D	LTR	0.85	51.3	D				
Dyer Ave @ 31st Street	SB									TR	0.85	50.1	D				
													F				
	WB	-	0.98	93.1	F		0.60	45.8	D	R	2.76 0.78	1350.0 58.8	E				
Dyer Ave @ 34th Street	SB	LR	0.98	94.9	F	LR	0.60	46.7	D	LR	0.78	61.0	E				
	SD	R	0.99	99.0	F	R		46.7	D	R	0.80	62.4	E				
Dyer Ave @ 35th Street	WB	Λ.	0.99	99.0	f	rt	0.61	41.5	U	LTR	0.79	195.2	F				
Dyel Ave w 33th Sheet	EB	LTR	0.77	02.6	F	LTR	0.77	02.0	F			149.5	F				
Dyer Ave @ 36th Street	NB	LIK	0.77	92.6		LIK	0.77	93.0		LTR TR	0.91	556.6	F				
	WB									TR	1.67	494.1	F				
Dyor Avenue (a) 41ct Stroct										I IK	1.34	434.1	1 「				
Dyer Avenue @ 41st Street Dyer Avenue @ 42nd Street	VVD									T							

Table 17-19
2017 Future without the Proposed Actions

Intersection Approach Movements Operations at LOS Mid-D, E or F

			Δ	M			Mid	day			ı	PM			Satu	ırday	
			V/C	Delay			V/C	Delay	,		V/C	Delay			V/C	Delay	
Intersection	Approach	Movt.	Ratio	Sec/Veh	LOS	Movt.	Ratio	Sec/Ve	h LOS	Movt.	Ratio	Sec/Veh	LOS	Movt.	Ratio	Sec/Veh	LOS
Unsignalized Intersections																	
Twelfth ave @ 33rd street	WB									R	0.89	57.7	F				
Twelfth ave @ 47th street	WB									R	1.71	383.0	F	R	0.89	79.8	F

Notes:

Shading indicates movement not at LOS Mid-D, E, or F.

Delay Calculated at greater than 300 seconds is considered unreliable

LOS = Level of Service

EB - Eastbound, WB - Westbound, NB - Northbound, SB - Southbound

L - Left, T- Through, R - Right, DefL - De Facto Left Turn

(LnT) - Lincoln Tunnel approach lane(s)

PARKING CONDITIONS

Demand for future parking was projected based upon hourly parking accumulation profiles of No Build development projects within the parking study area and on a background growth in demand for new parking; projections were also based on No Build development projects outside the parking study area periphery, if a portion of their demand would spill over into the study area. The background demand for parking in the study area is projected to grow at a rate below that of background vehicular traffic, which is consistent with the background growth component of the parking projections developed for the *Hudson Yards FGEIS*. Overall, background parking demand is projected to increase by 1.0 percent between 2008 and 2017 and by 1.3 percent between 2008 and 2019.

The supply of available off-street parking is also expected to change in the study area, both due to the displacement of existing parking facilities by No Build projects and by public parking supply that may be added by certain No Build projects. Nine existing facilities are expected to be displaced resulting in a loss of approximately 933 daytime spaces. However, ten public parking facilities are anticipated to be incorporated into No Build projects, adding 1,620 public spaces, thus resulting a net increase of approximately 687 off-street spaces in the study area. It was assumed that these additional facilities would be open 24 hours.

As noted in the discussion of existing conditions above, most of the parking study area's curbside regulations restrict weekday daytime usage to commercial loading and unloading activities, authorized vehicles or prohibit parking overall. This condition is not expected to change in the future and no on-street parking availability was assumed in the future, as was assumed for existing conditions.

Due to background growth in parking demand and parking demand generated by developments assumed to be completed by 2019 in the Future without the Proposed Actions, off-street parking is anticipated to be more highly utilized in 2019. Table 17-20 presents the anticipated 2019 off-street parking capacity and utilization for the weekday midday and overnight analysis periods in the Future without the Proposed Actions. As shown, weekday midday parking demand is projected to exceed available study area off-street capacity by approximately 2,100 spaces, including the anticipated increase in weekday midday parking supply. Overnight parking is expected to be available in the study area in 2019 in the Future without the Proposed Actions with approximately 1,150 overnight spaces available and a utilization rate of approximately 76 percent.

Table 17-20
2019 Future without the Proposed Actions:
Off-Street Parking Utilization

Analysis Period	Total Capacity	Demand	Utilization Rate	Available Spaces
Weekday Midday	5,869	7,926	135%	(2,057)
Weekday Overnight	4,764	3,614	76%	1,150

No difference is projected between the 2019 and 2017 off-street parking supply or demand generated by No Build projects in the Future without the Proposed Actions. The only distinction between the 2019 and 2017 parking demand projections in the Future without the Proposed Actions is the minimal increment in background demand growth between 2017 and 2019, and therefore, the 2017 and 2019 parking utilization and available space projections are substantively the same, as shown in Table 17-21.

Table 17-21 2017 Future without the Proposed Actions: Off-Street Parking Utilization

Analysis Period	Total Capacity	Demand	Utilization Rate	Available Spaces
Weekday Midday	5,869	7,915	135%	(2,046)
Weekday Overnight	4,764	3,614	76%	1,150

E. PROBABLE IMPACTS OF THE PROPOSED ACTIONS

This section presents the projected traffic and parking conditions in the 2019 Future with the Proposed Actions, assuming the full mixed-use development at the Development Site as well as the completion of the development of the Additional Housing Sites. Also presented in this section are projected traffic and parking conditions in the 2017 Future with the Proposed Actions.

As discussed earlier in this chapter, the Maximum Commercial Scenario for the Development Site would typically generate a higher level of travel demand during the weekday peak hours than both options for the Maximum Residential Scenario (the office and hotel options). During the Saturday midday peak hour, both of the options for the Maximum Residential Scenario would generate more trips than the Maximum Commercial Scenario, as a result of the larger residential component. Between the two options for the Maximum Residential Scenario, the hotel option would generate more trips than the office option on a Saturday. Therefore, the traffic analyses reasonable worst-case development scenario assumes the Maximum Commercial Scenario for the weekday analyses and the Maximum Residential Scenario-Hotel Option for the Saturday analysis. As the comparative levels of parking demand generated by the development scenarios would exhibit greater fluctuation depending on the analysis period, the parking analyses examine the Future with the Proposed Actions for all scenarios.

DEVELOPMENT SITE CHARACTERISTICS

Current plans for the Development Site propose a northern upland connection from Eleventh Avenue that would align approximately with West 32nd Street. This upland connection is intended to provide vehicular access for internal passenger drop off to the commercial building and residential buildings on the north side of the site and would continue west with a cul-de-sac

drop off to provide vehicular access to the residential buildings further west. It is anticipated that there would also be a southern upland connection accessible from Eleventh Avenue that aligns approximately with West 31st Street. This southern upland connection would provide access to the residential buildings in the western portion of the site in a cul-de-sac drop off, as well as to the retail uses at the base of these buildings.

An approximately 850 space accessory parking facility would be located on terra firma, on the south side of the Development Site, with access provided via a driveway located on West 30th Street and from the southern roadway. These off-street parking spaces would be accessory to the residential uses. In addition, an approximately 750 space accessory parking facility would be located on the platform on the north side of the Development Site with access via a driveway on West 33rd Street and from the northern roadway; of these, 270 spaces would serve accessory commercial uses and the remainder would be accessory to the residential uses. As described in Chapter 1, "Project Description," it is anticipated that the West 30th Street (850-space) parking facility would be completed and operational by 2017, while the West 33rd Street (750-space) parking facility would be completed and operational by 2019.

TRAFFIC VOLUMES

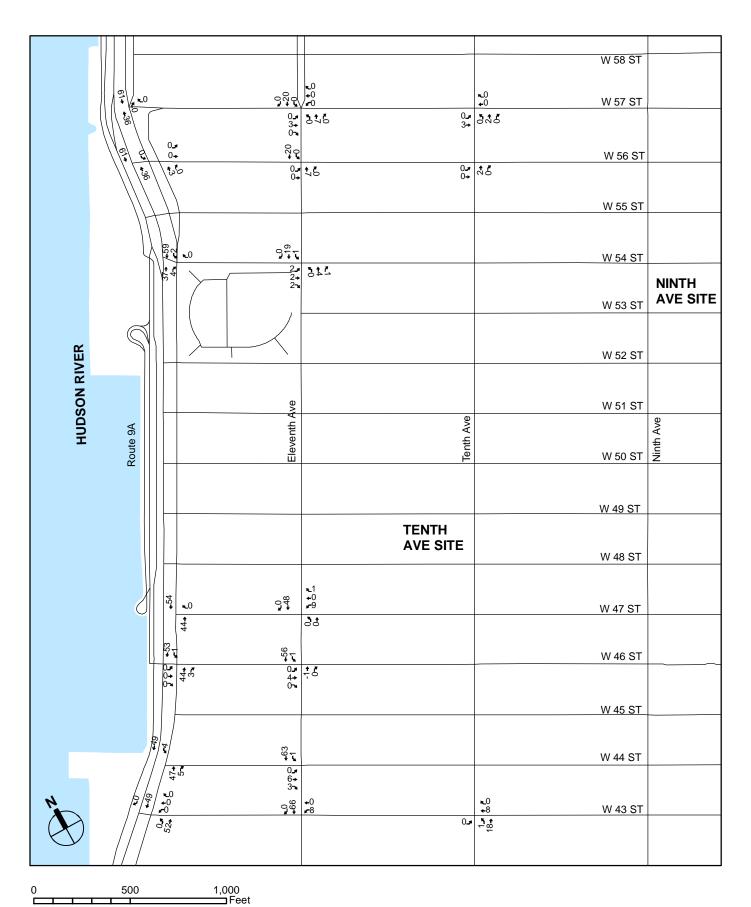
Future traffic volumes on the study area roadway network in the Future with the Proposed Actions were derived through the addition of incremental vehicle trips projected to be generated by the Proposed Actions to the traffic volumes expected to be present on the study area roadways absent the Proposed Actions, i.e., the No Build traffic volumes presented above. A similar process was employed to derive study area roadway network traffic volumes for the 2017 Build year, incorporating the development expected to be completed in the Future with the Proposed Actions by 2017. The development components assumed for full development of the Development Site and completed for the 2017 Build year were provided earlier in Table 17-2. Completion of the Ninth Avenue Additional Housing Site is assumed by 2017—the Tenth Avenue Additional Housing Site is assumed to be completed by the 2019 analysis year.

Figures 17-37 through 17-52 provide the 2019 incremental traffic volumes in the Future with the Proposed Actions for the typical weekday AM (8 AM to 9 AM), midday (12 noon to 1 PM), PM (5 PM to 6 PM), and typical Saturday midday (1 PM to 2 PM) peak hours, respectively, at the study intersection analysis locations. As noted above, the reasonable worst case scenario for the traffic analyses assumes the Maximum Commercial Scenario for trip generation and analysis of the weekday AM, midday and PM peak hours and the Maximum Residential Scenario-Hotel Option for trip generation and analysis of the Saturday midday peak hour. Figures 17-53 through 17-68 provide the 2019 traffic volumes in the Future with the Proposed Actions, derived from the addition of the Build incremental traffic volumes to the 2019 No Build traffic volumes, for the typical weekday AM (8 AM to 9 AM), midday (12 noon to 1 PM), PM (5 PM to 6 PM), and typical Saturday midday (1 PM to 2 PM) peak hours, respectively, at the study intersection analysis locations.

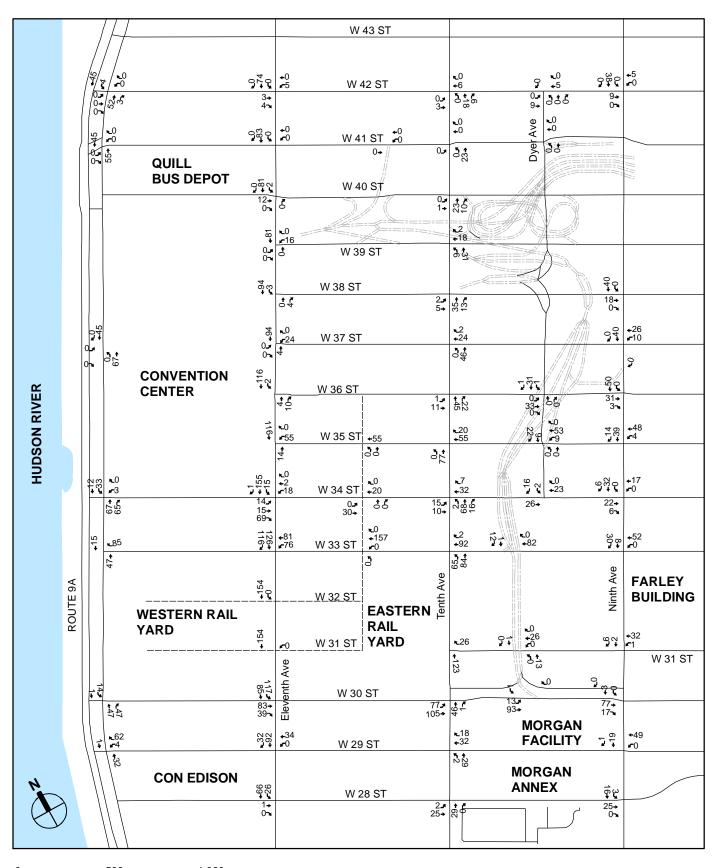
Incremental and Build traffic volumes for the 2017 interim analysis year are provided in Appendix E, "Transportation Technical Memos and Analyses."

INTERSECTION CAPACITY ANALYSIS

Capacity analyses of 2019 and 2017 in the Future with the Proposed Actions conditions at the study area intersections were performed in accordance with the methodology presented in the

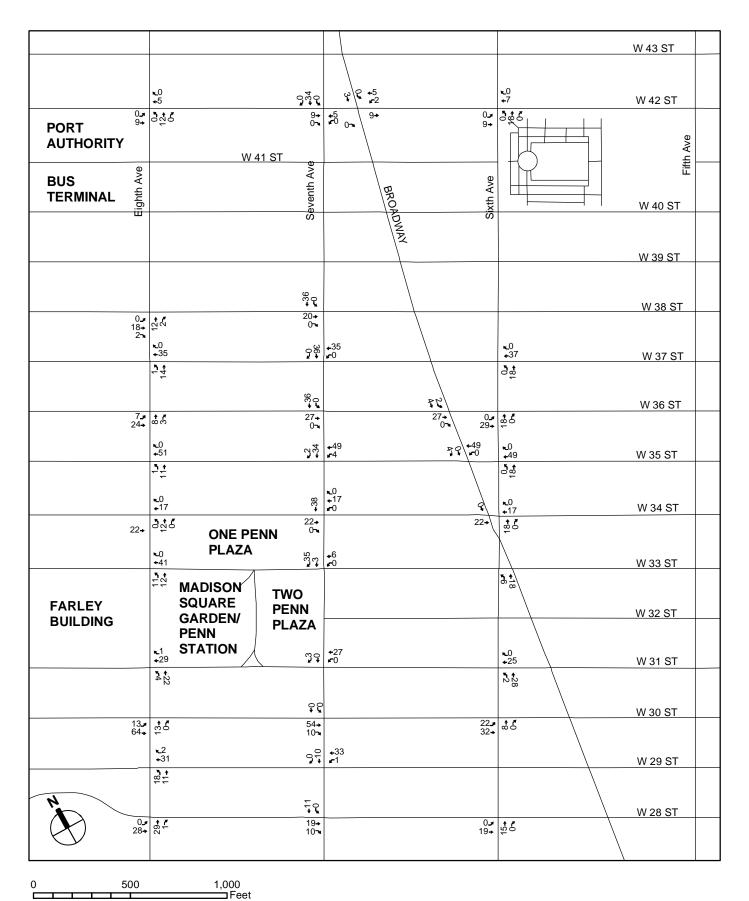


2019 Build Increment Traffic Volumes - Inset 1 (Weekday AM Peak Hour)

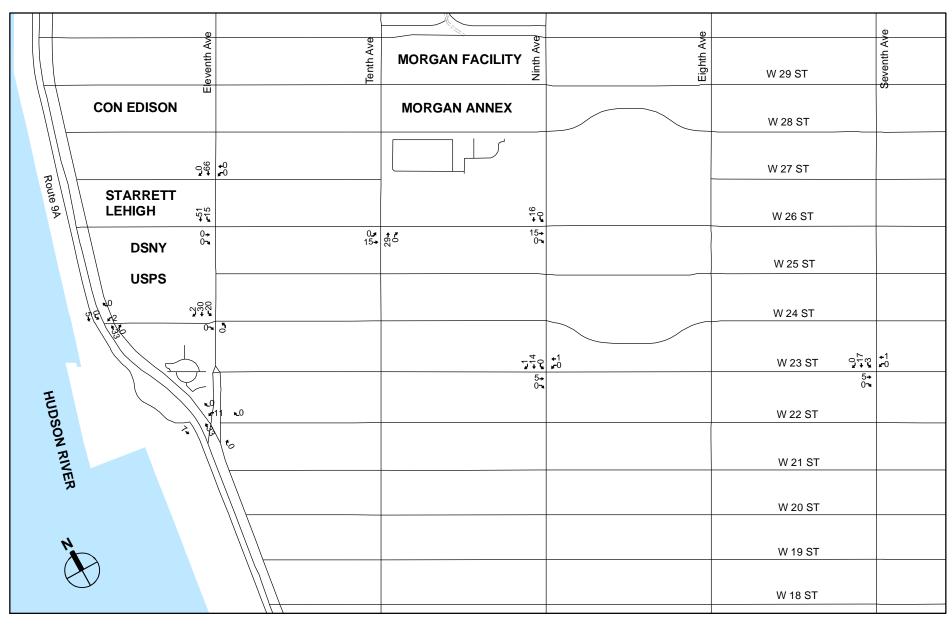


0 500 1,000 Fe

2019 Build Increment Traffic Volumes - Inset 2 (Weekday AM Peak Hour)

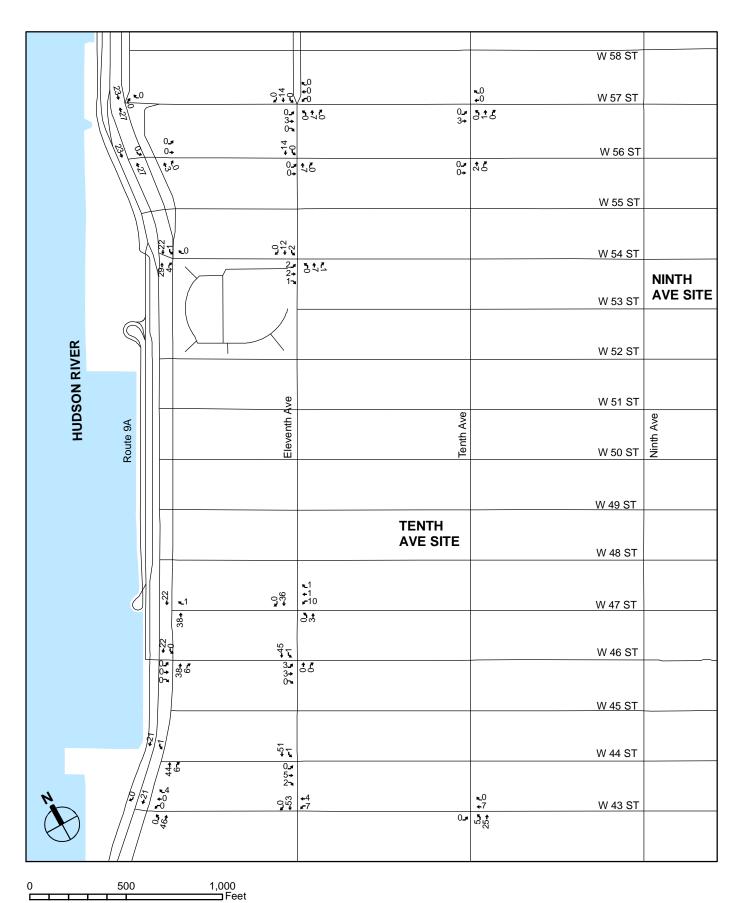


2019 Build Increment Traffic Volumes - Inset 3 (Weekday AM Peak Hour)

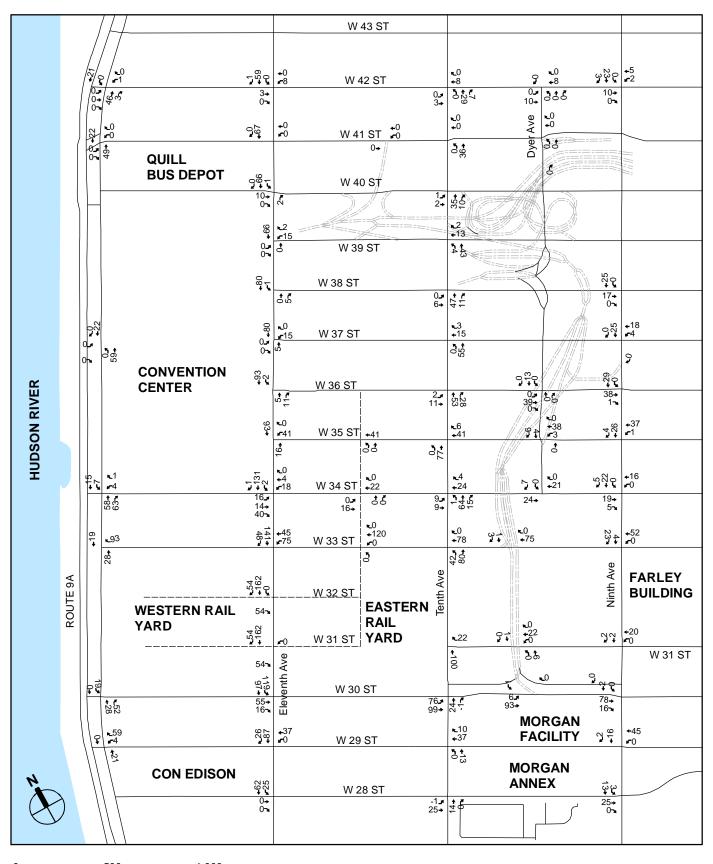


2019 Build Increment Traffic Volumes - Inset 4 (Weekday AM Peak Hour)

WESTERN RAIL YARD Figure 17-40

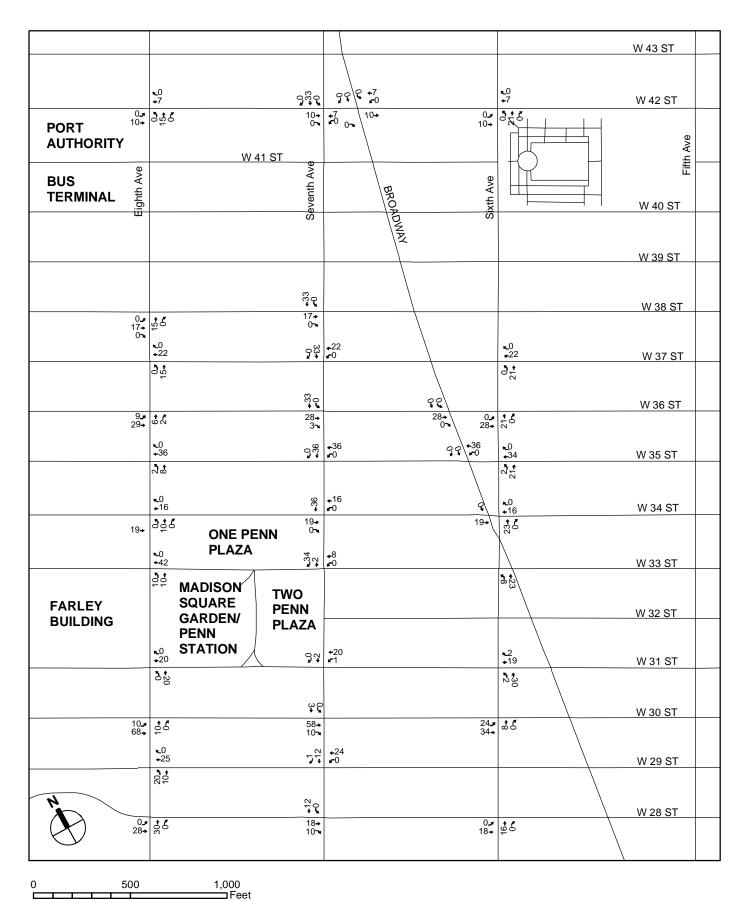


2019 Build Increment Traffic Volumes - Inset 1 (Weekday Midday Peak Hour)

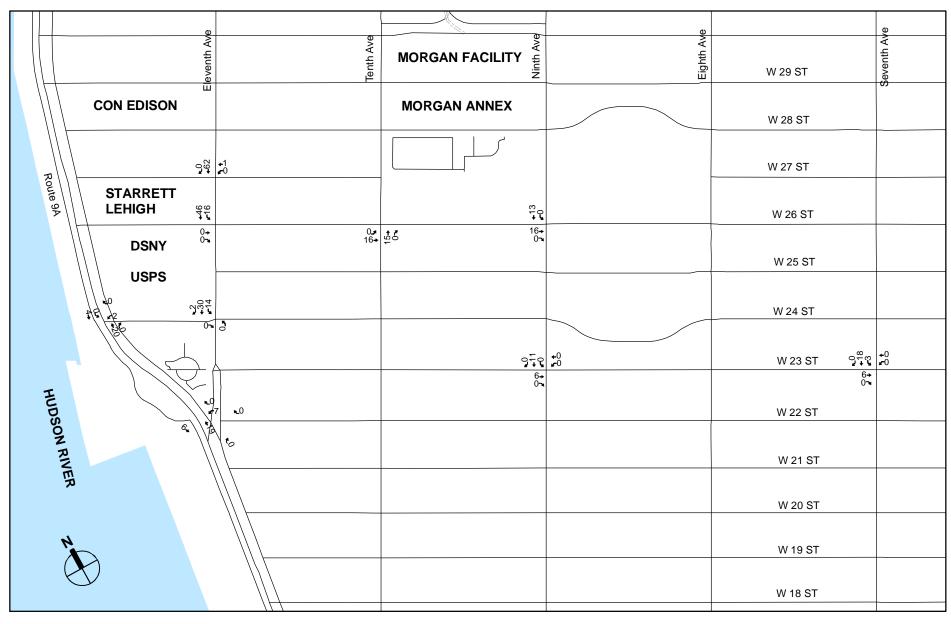


0 500 1,000 Fe

2019 Build Increment Traffic Volumes - Inset 2 (Weekday Midday Peak Hour)

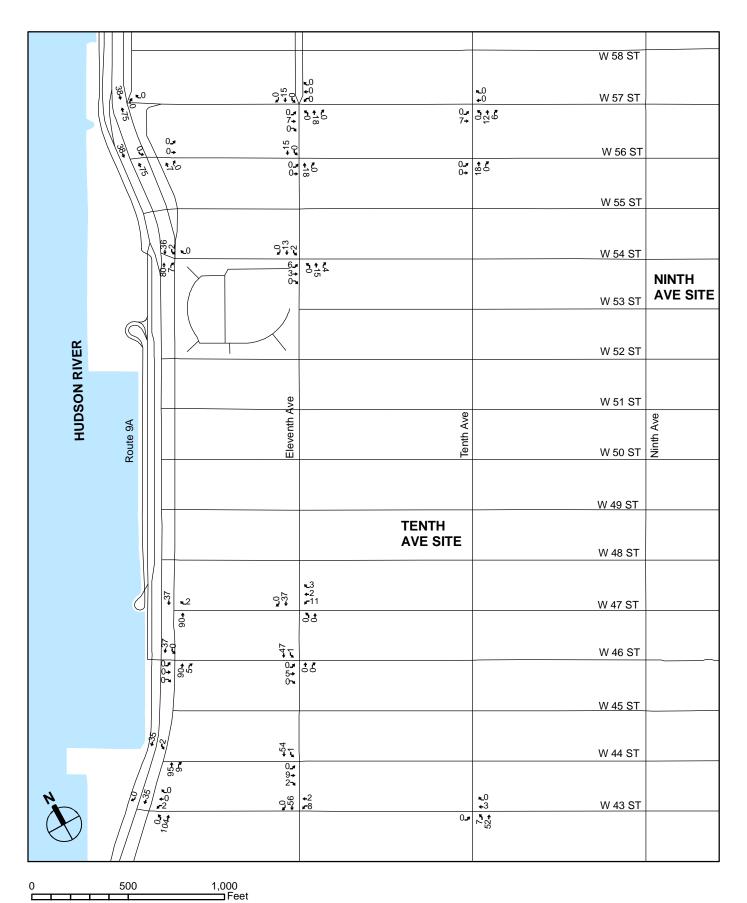


2019 Build Increment Traffic Volumes - Inset 3 (Weekday Midday Peak Hour)

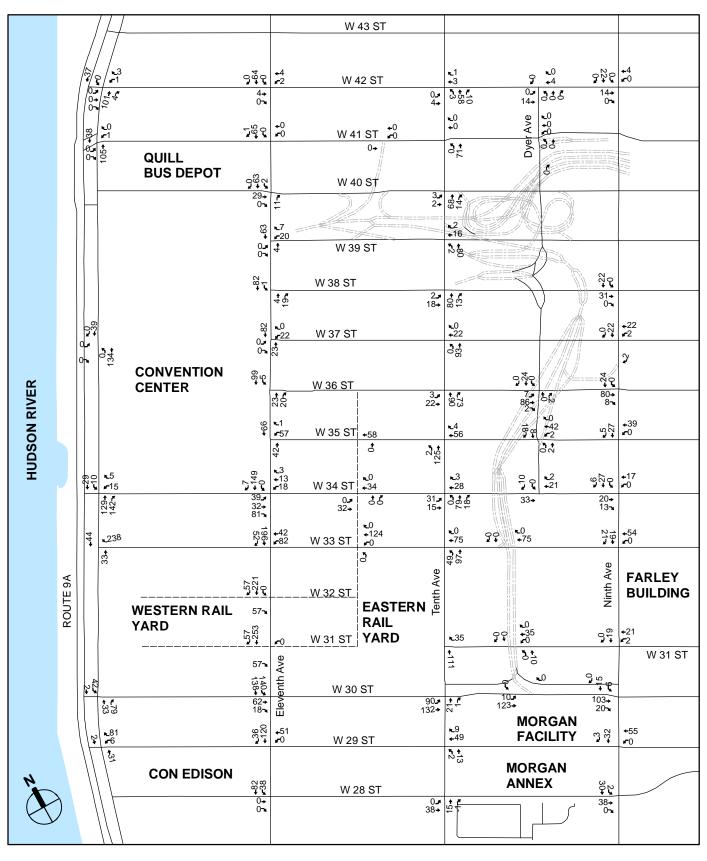


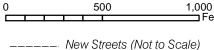
2019 Build Increment Traffic Volumes - Inset 4 (Weekday Midday Peak Hour)

WESTERN RAIL YARD Figure 17-44

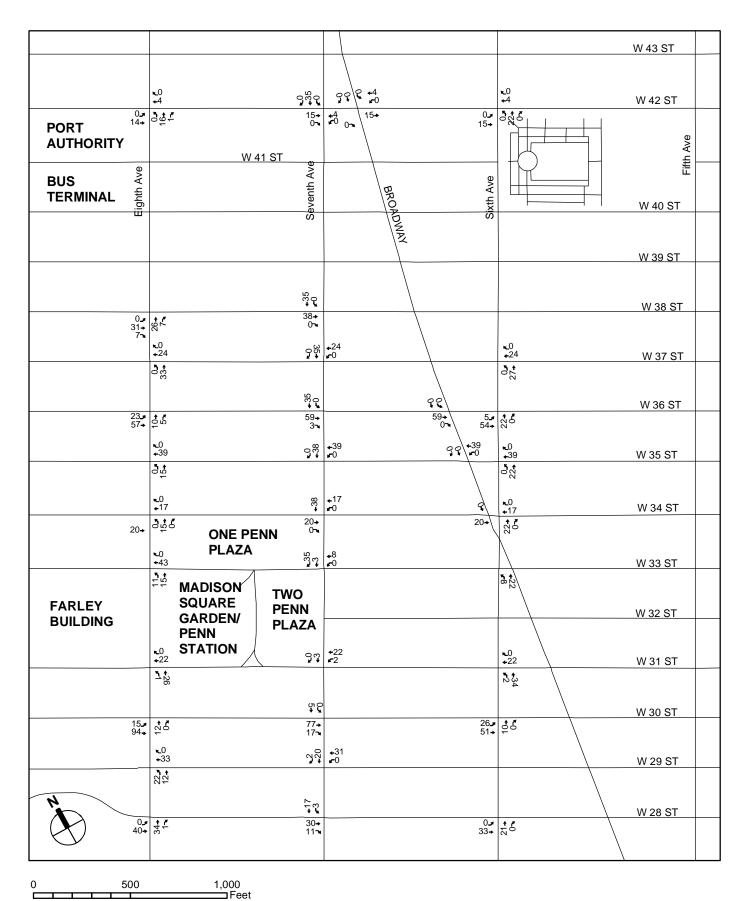


2019 Build Increment Traffic Volumes - Inset 1 (Weekday PM Peak Hour)

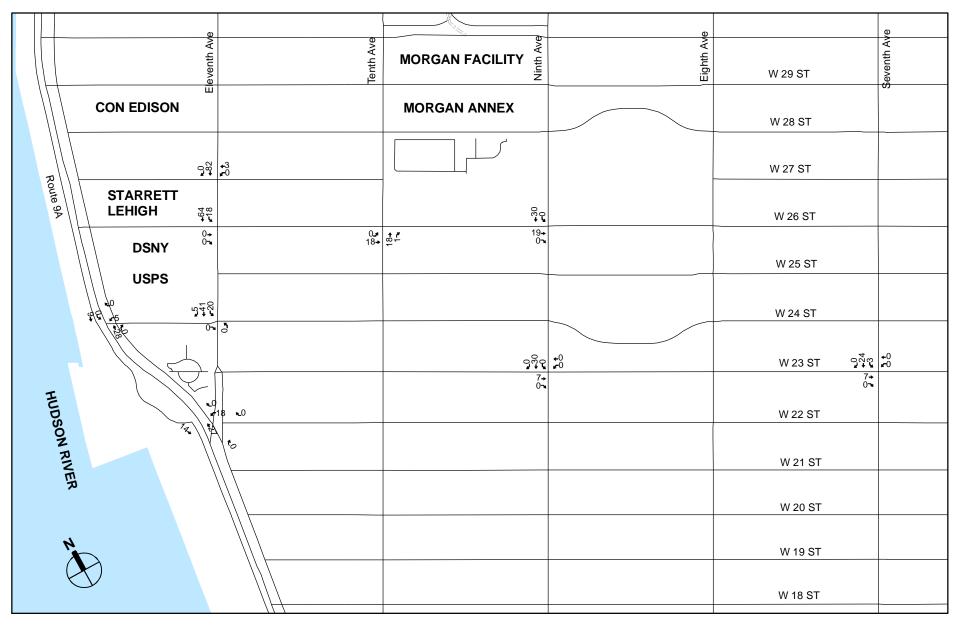




2019 Build Increment Traffic Volumes - Inset 2 (Weekday PM Peak Hour)

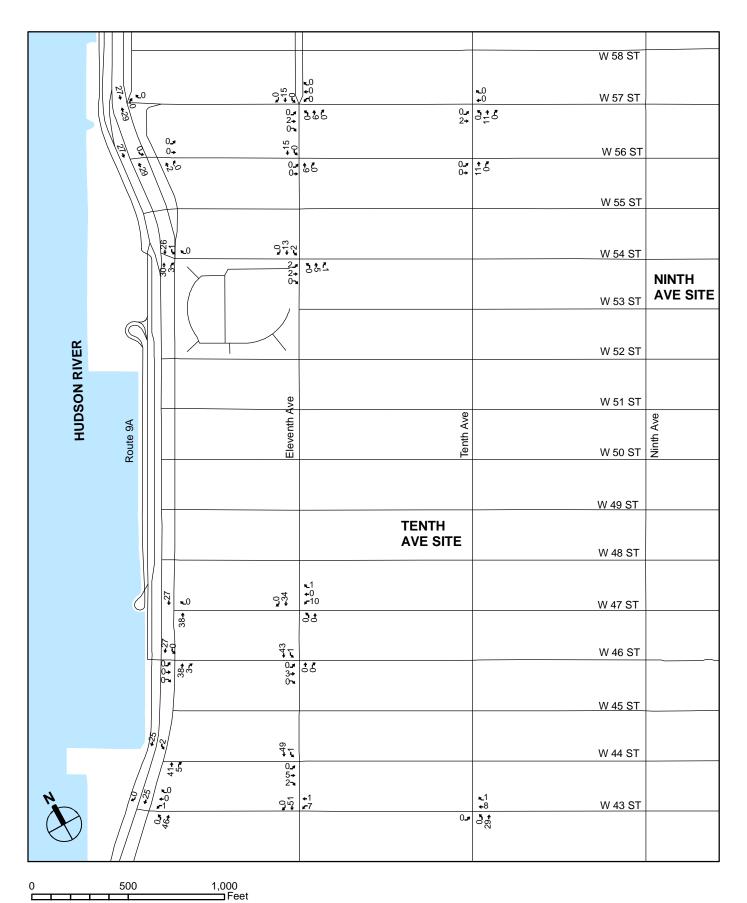


2019 Build Increment Traffic Volumes - Inset 3 (Weekday PM Peak Hour)

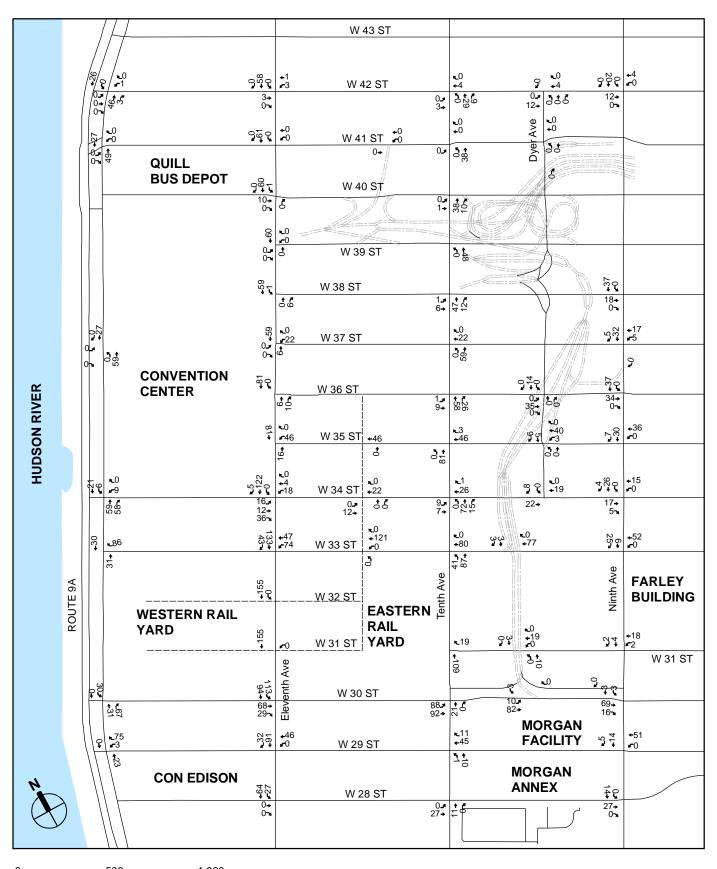


0 500 1,000 Feet

2019 Build Increment Traffic Volumes - Inset 4 (Weekday PM Peak Hour)

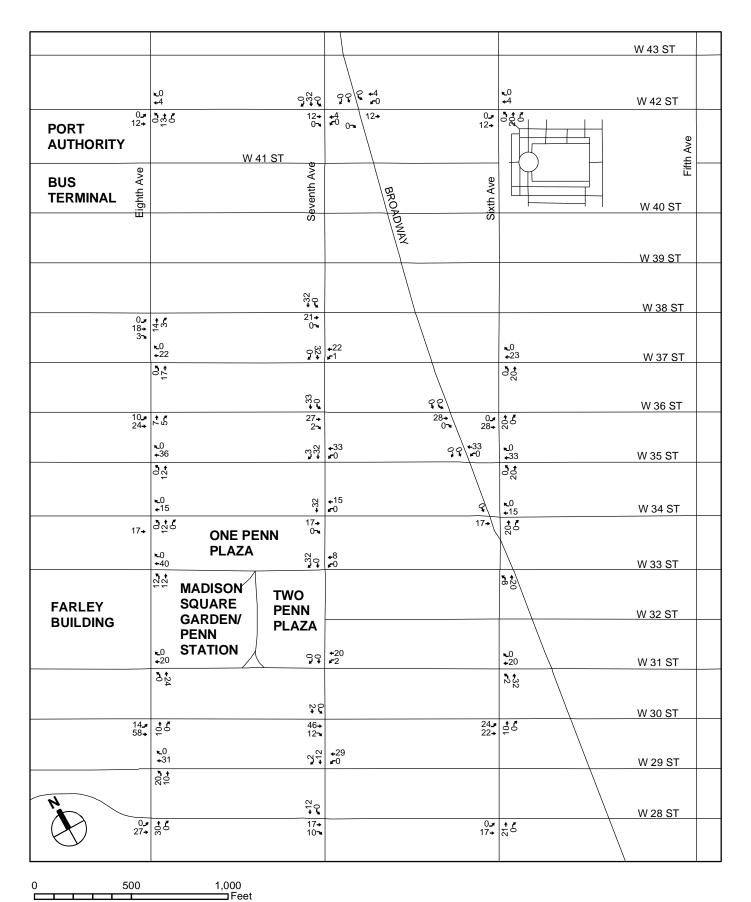


2019 Build Increment Traffic Volumes - Inset 1 (Saturday Midday Peak Hour)

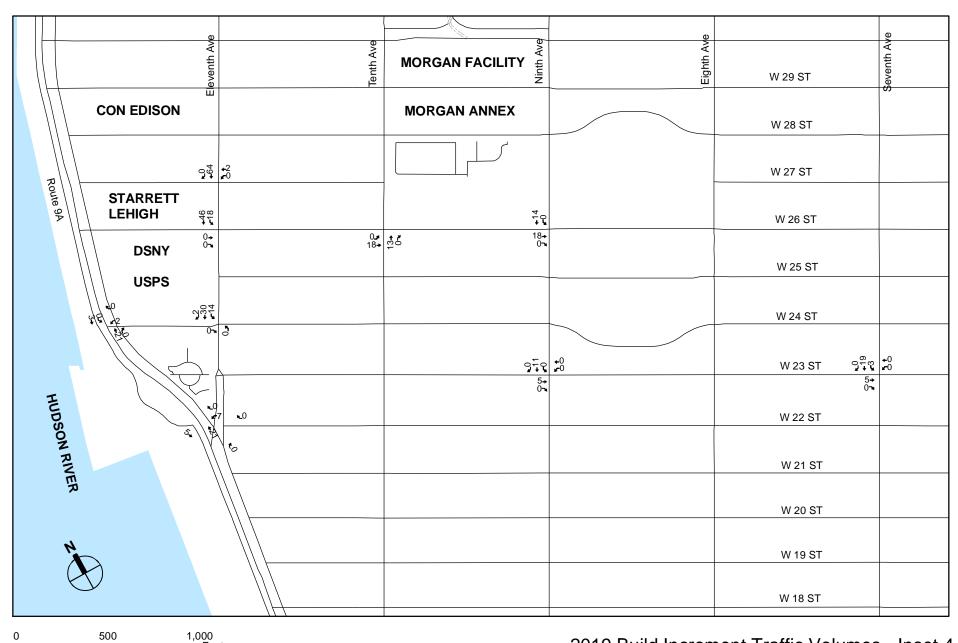


0 500 1,000 Fe

2019 Build Increment Traffic Volumes - Inset 2 (Saturday Midday Peak Hour)

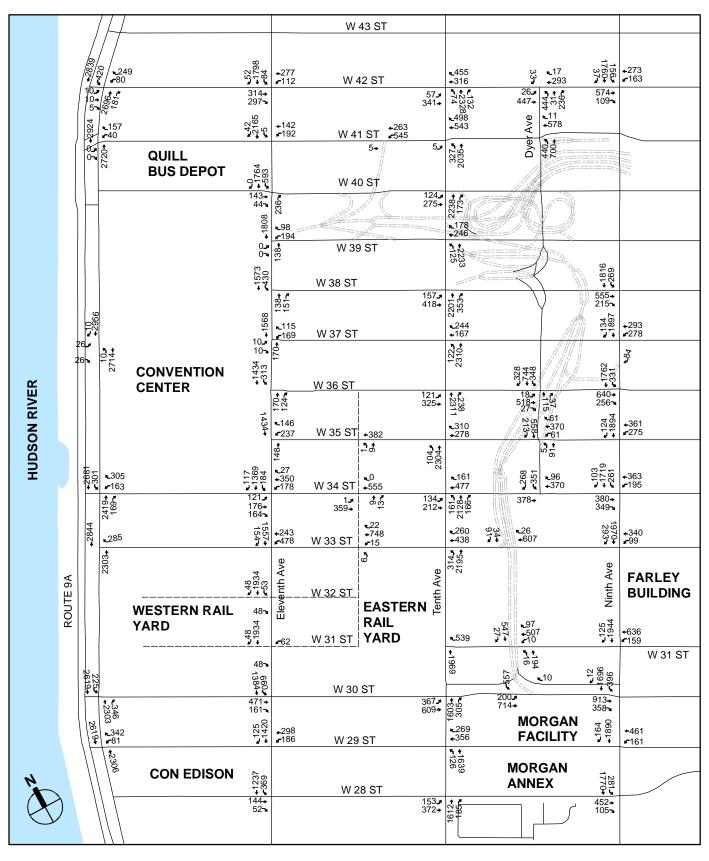


2019 Build Increment Traffic Volumes - Inset 3 (Saturday Midday Peak Hour)



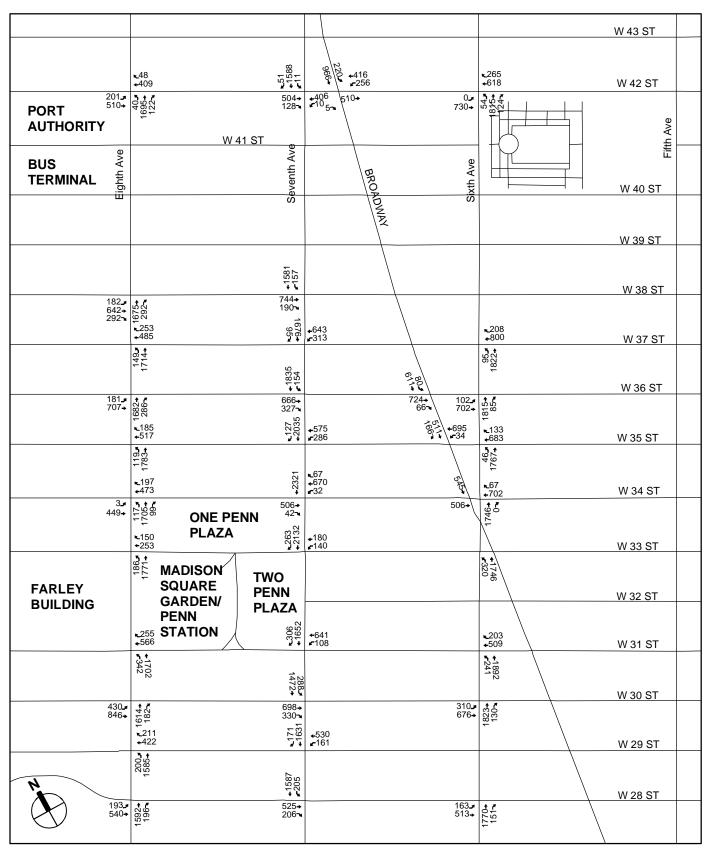
2019 Build Increment Traffic Volumes - Inset 4
(Saturday Midday Peak Hour)

WESTERN RAIL YARD Figure 17-52



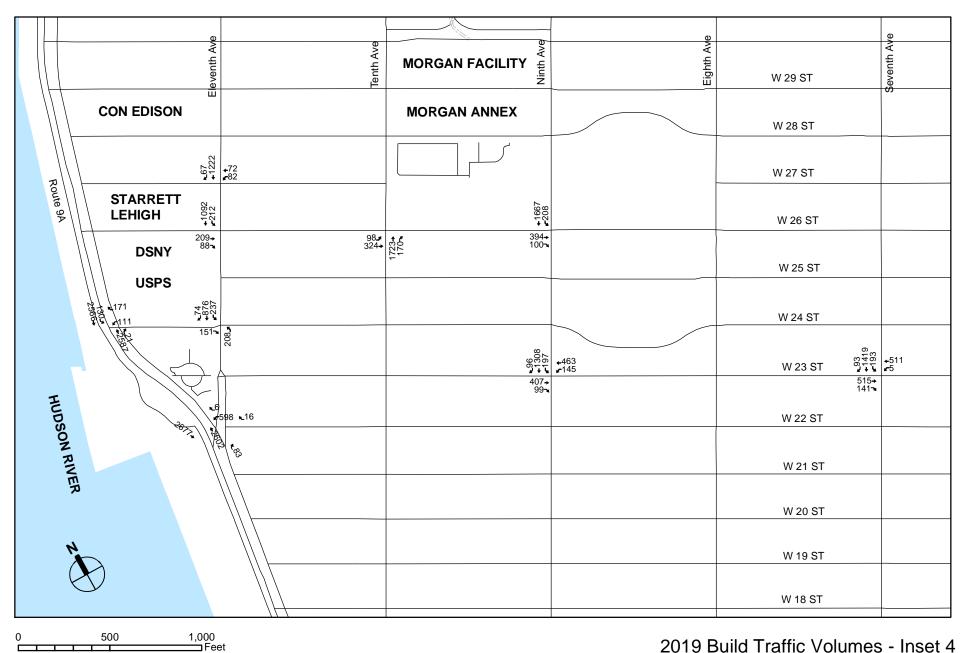


2019 Build Traffic Volumes - Inset 2 (Weekday AM Peak Hour)

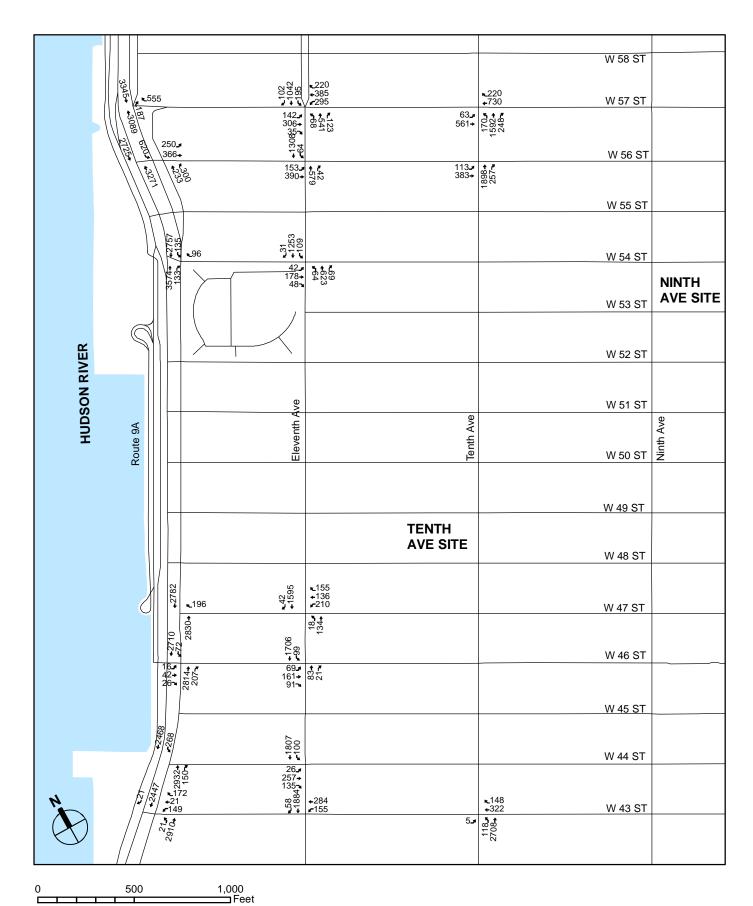


500 1,000 Feet 2019 Build Traffic Volumes - Inset 3

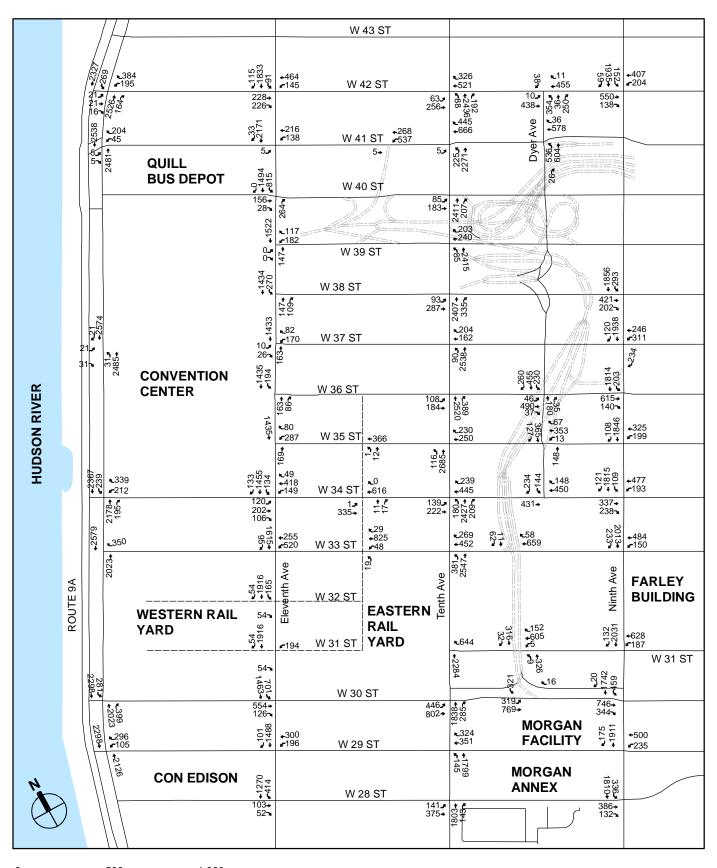
(Weekday AM Peak Hour)

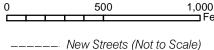


2019 Build Traffic Volumes - Inset 4 (Weekday AM Peak Hour)

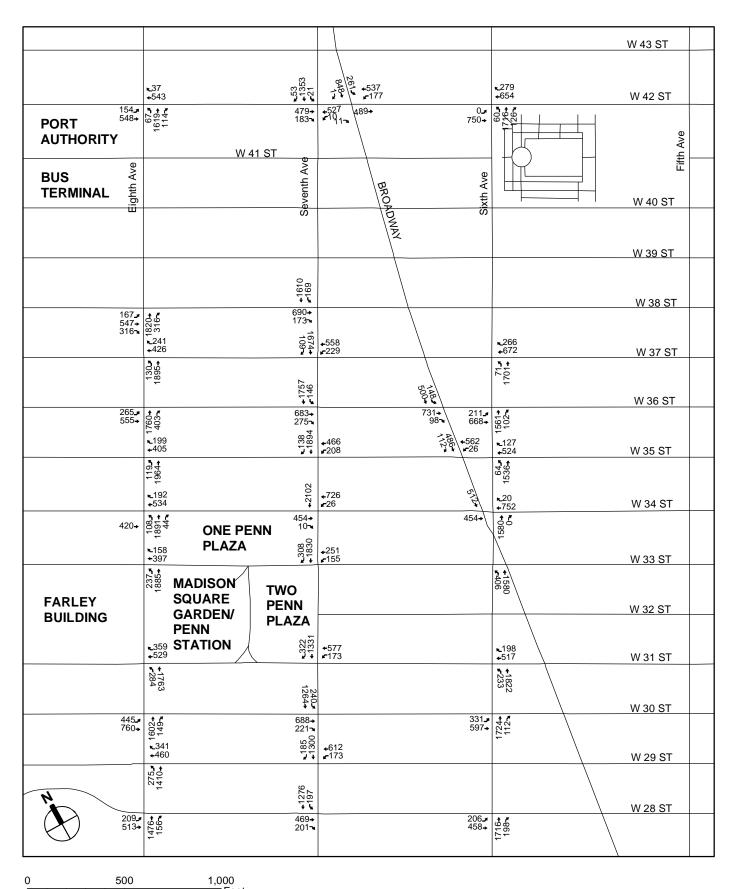


2019 Build Traffic Volumes - Inset 1 (Weekday Midday Peak Hour)

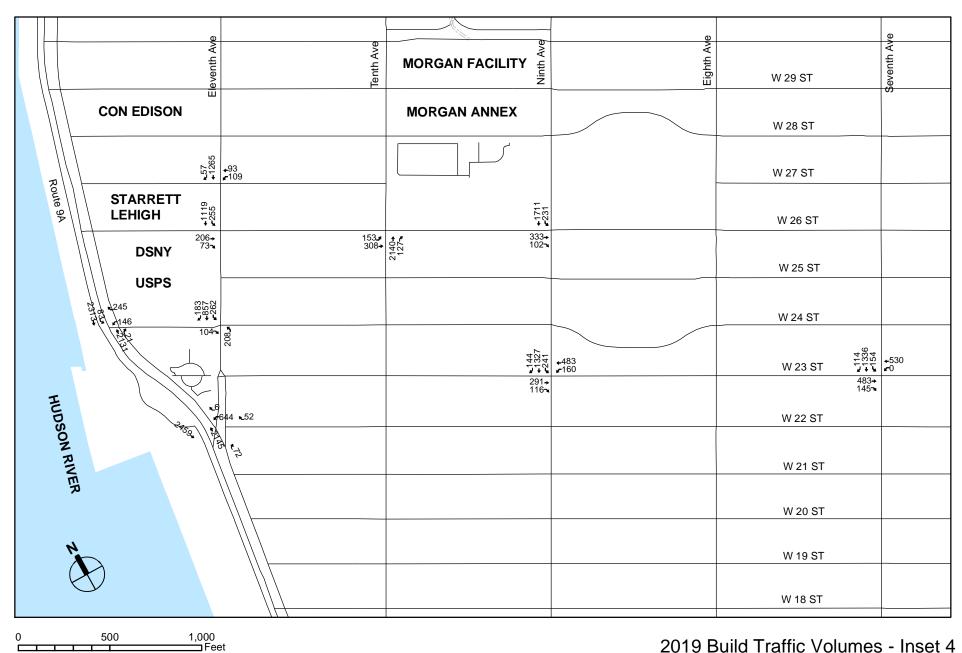




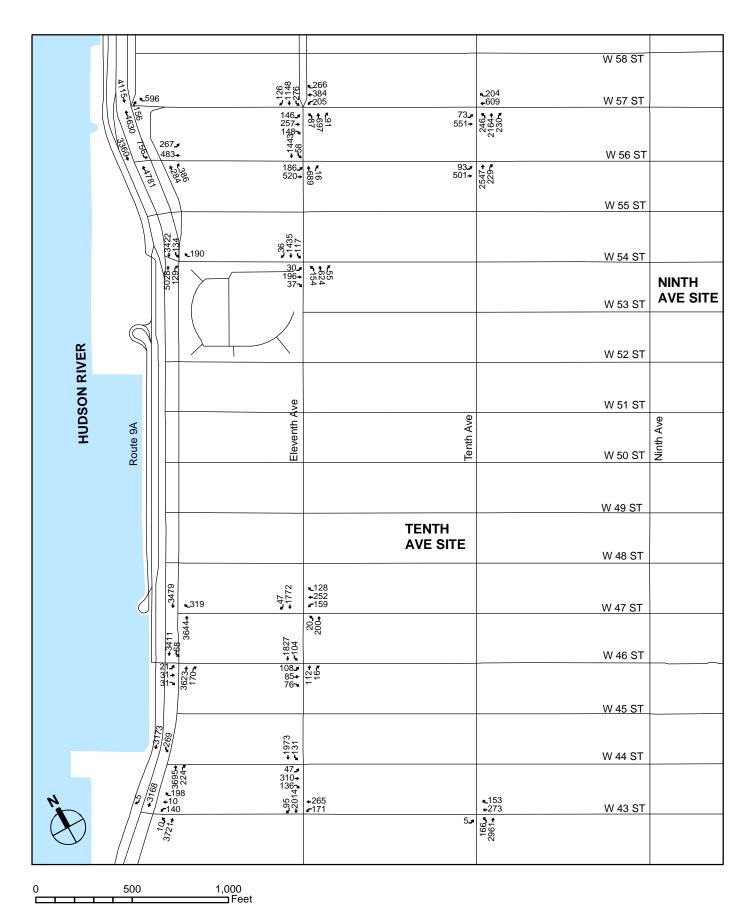
2019 Build Traffic Volumes - Inset 2 (Weekday Midday Peak Hour)



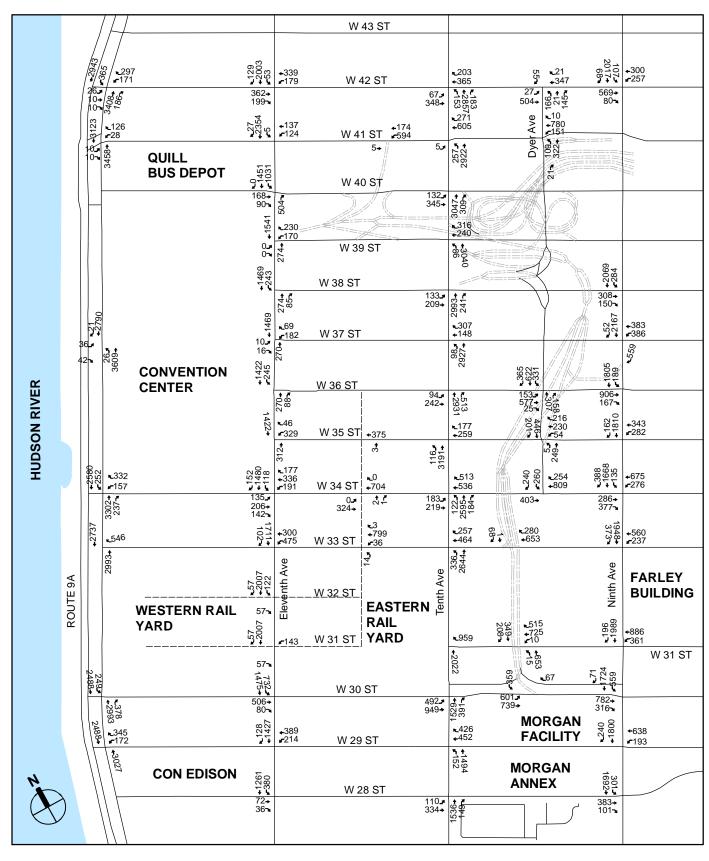
2019 Build Traffic Volumes - Inset 3 (Weekday Midday Peak Hour)

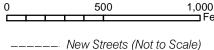


2019 Build Traffic Volumes - Inset 4 (Weekday Midday Peak Hour)

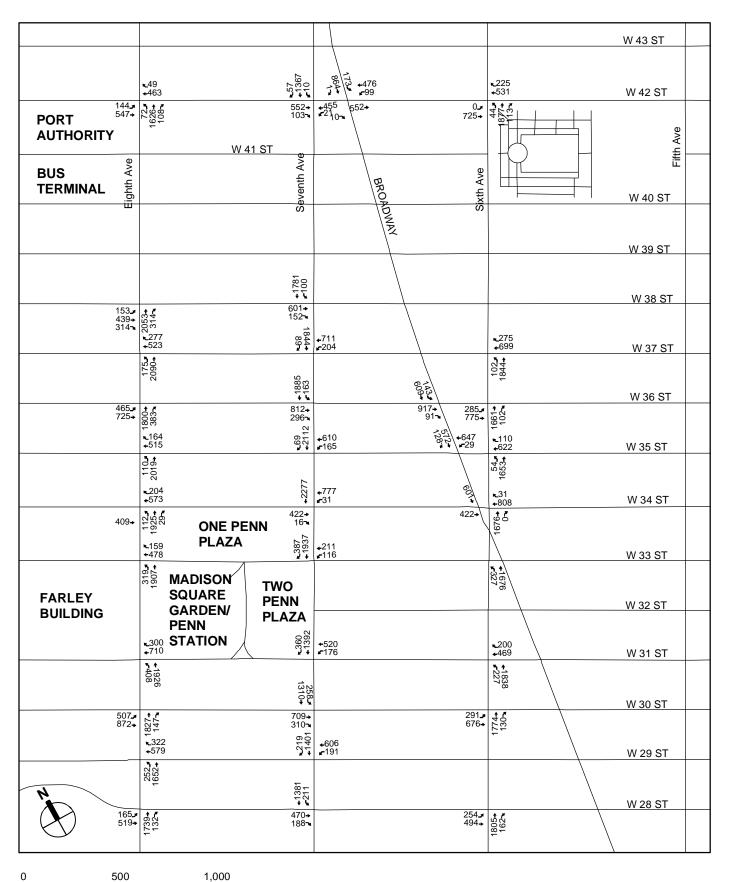


2019 Build Traffic Volumes - Inset 1 (Weekday PM Peak Hour)

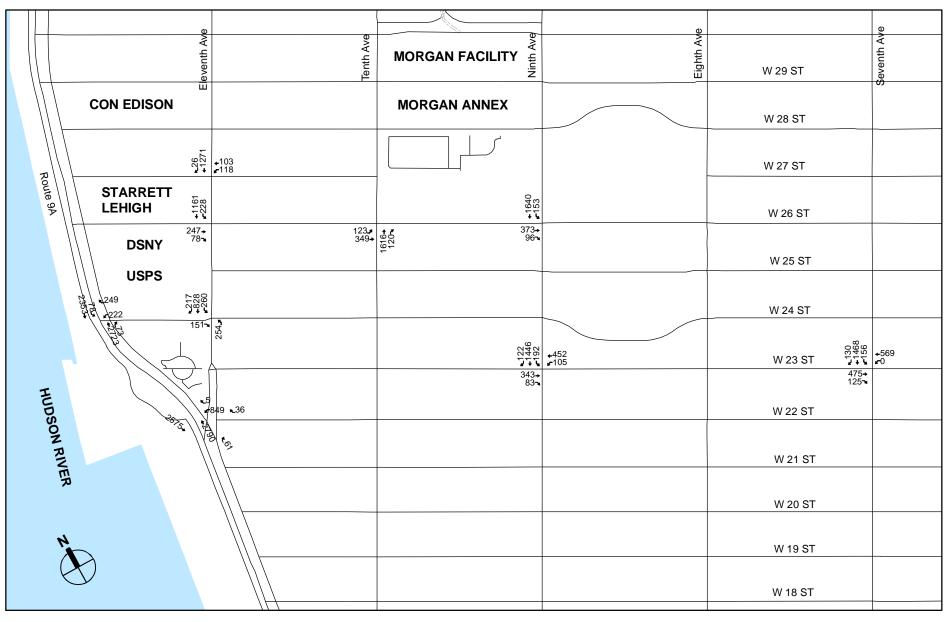




2019 Build Traffic Volumes - Inset 2 (Weekday PM Peak Hour)

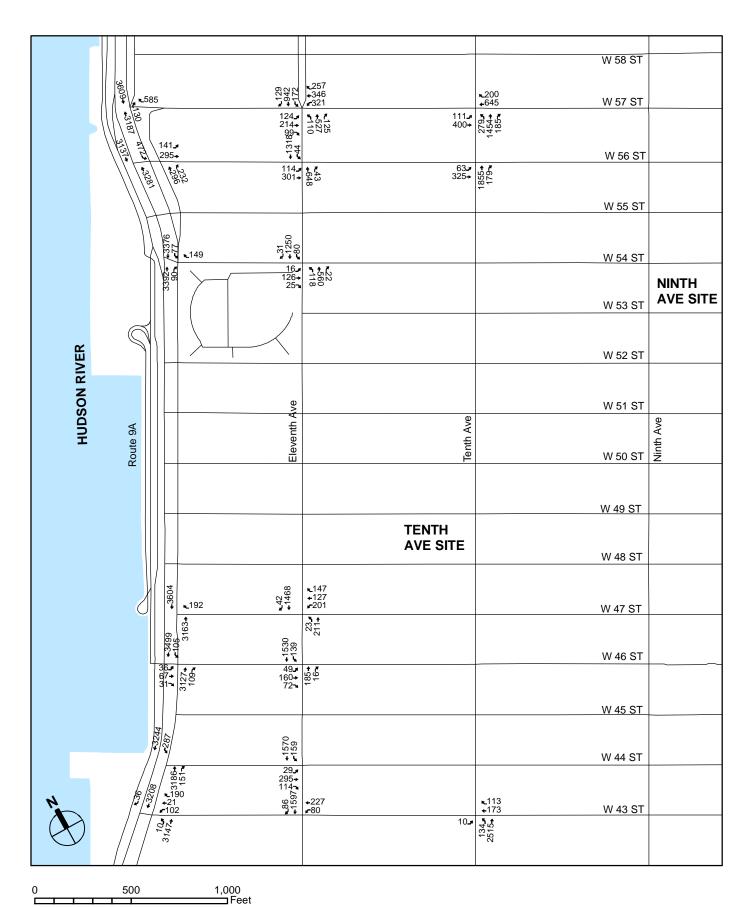


2019 Build Traffic Volumes - Inset 3 (Weekday PM Peak Hour)

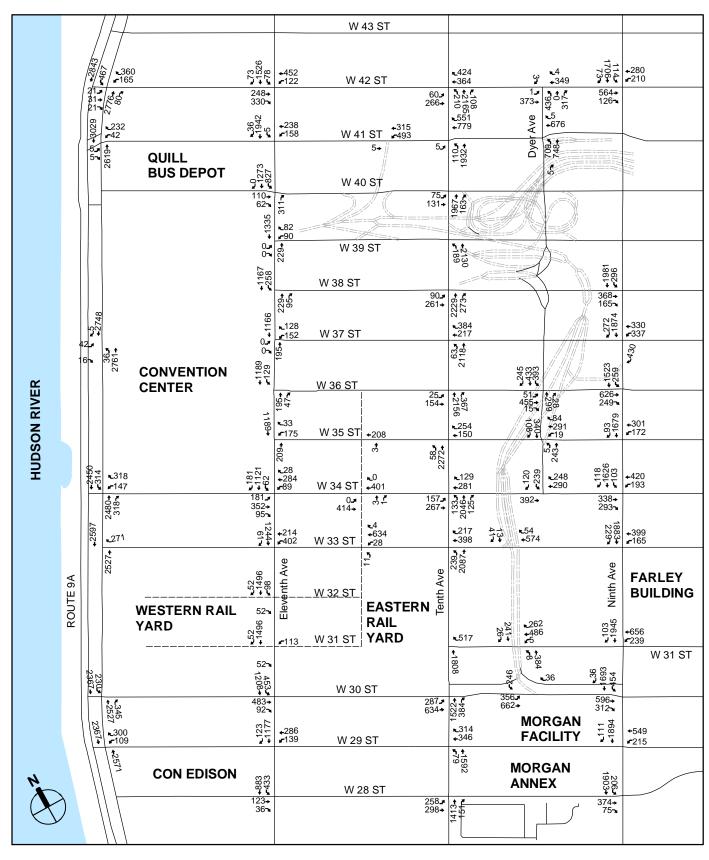


2019 Build Traffic Volumes - Inset 4 (Weekday PM Peak Hour)

WESTERN RAIL YARD Figure 17-64

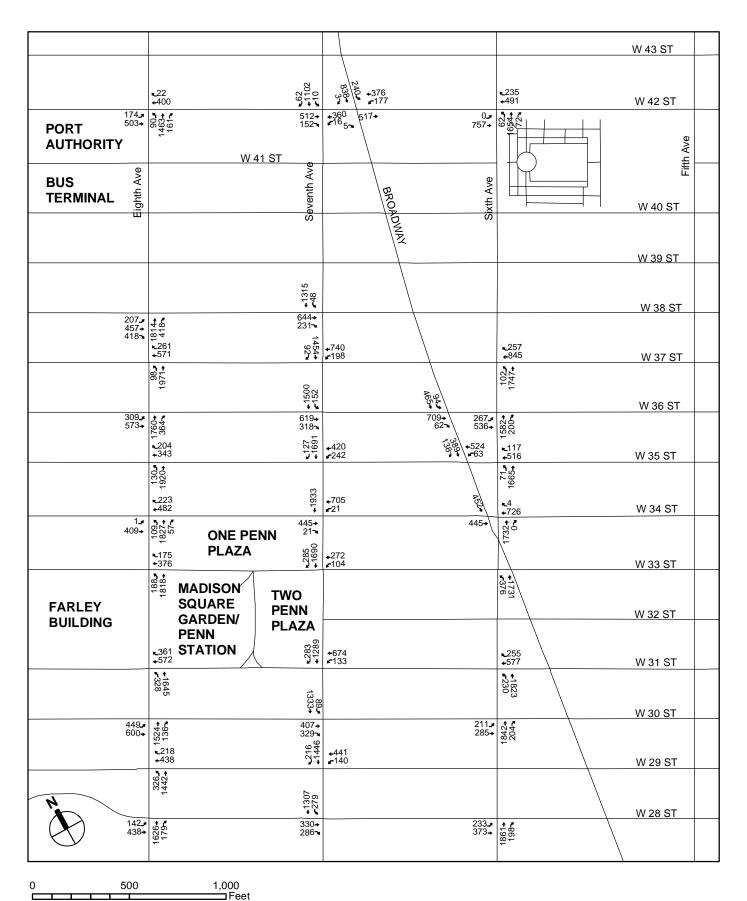


2019 Build Traffic Volumes - Inset 1 (Saturday Midday Peak Hour)

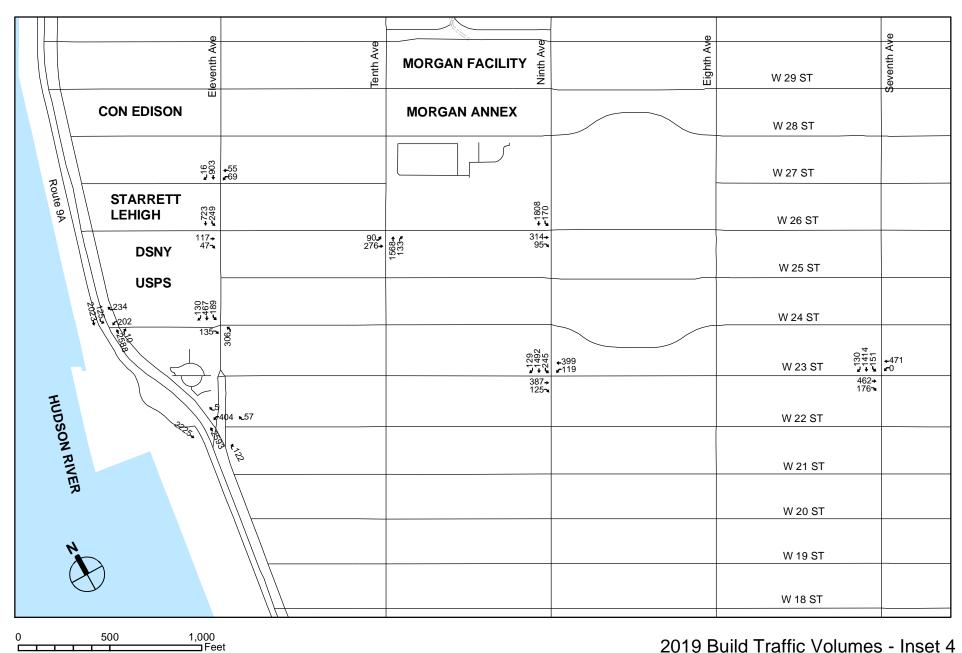




2019 Build Traffic Volumes - Inset 2 (Saturday Midday Peak Hour)



2019 Build Traffic Volumes - Inset 3
(Saturday Midday Peak Hour)



2019 Build Traffic Volumes - Inset 4 (Saturday Midday Peak Hour) Highway Capacity Manual (HCM), as described previously for existing and Future without the Proposed Actions conditions.

The number of intersection approach movements projected to operate within mid-LOS D, LOS E or LOS F during each 2019 build hour is provided in Table 17-22, along with the change in the number of intersection approach movements that would operate within each LOS from the 2019 Future without the Proposed Actions condition. Under the 2019 Future with the Proposed Actions condition, 124 approach movements at 76 intersections would operate at mid-LOS D, LOS E, or LOS F in the AM peak hour; 118 approach movements at 77 intersections would operate at mid-LOS D, LOS E, or LOS F in the midday peak hour; 153 approach movements at 86 intersections would operate at mid-LOS D, LOS E, or LOS F in the PM peak hour; and 89 approach movements at 67 intersections would operate at mid-LOS D, LOS E, or LOS F in the Saturday midday peak hour. The increment in approach movements that would operate at mid-LOS D or worse as a result of project generated traffic is less than ten percent above the overall total for the 2019 Future without the Proposed Actions condition, as indicated in Table 17-16. Under the 2019 Future with the Proposed Actions condition, the PM peak hour would be the most congested in the study area as demonstrated by the overall number of approach movements projected to operate at mid-LOS D or worse, and in the number of approach movements projected to operate in LOS E or LOS F.

Table 17-22 2019 Future with the Proposed Actions: Number of Intersection Approach Movements at Mid-LOS D, LOS E or LOS F

		Ana	lysis Hour	
Level of Service	AM	Weekday Midday	PM	Saturday Midday
Mid-LOS D	<u>15(n/c)</u>	<u>25(+3)</u>	11(<u>n/c</u>)	<u>21(-1)</u>
LOS E	28(+5)	<u>13(-2)</u>	<u>29</u> (+2)	<u>13(+4)</u>
LOS F	<u>81</u> (+5)	<u>80(+9)</u>	<u>113(+7)</u>	<u>55(+3)</u>

Notes: (+/-X) indicates the change in the number of intersection approach movements within each LOS from that of Future without the Proposed Actions condition. (n/c) indicates no change from that of the Future without the Proposed Actions condition.

The number of intersection approach movements projected to operate within mid-LOS D, LOS E, or LOS F during each analysis hour in the 2017 Future with the Proposed Actions is provided in Table 17-23, as well as with the change in the number of intersection approach movements that would operate within each LOS from 2017 Future without the Proposed Actions condition. In the 2017 Future with the Proposed Actions condition, 118 approach movements at 73 intersections would operate at mid-LOS D, LOS E, or LOS F in the AM peak hour; 109 approach movements at 73 intersections would operate at mid-LOS D, LOS E, or LOS F in the midday peak hour; 150 approach movements at 85 intersections would operate at mid-LOS D, LOS E, or LOS F in the PM peak hour; and 81 approach movements at 62 intersections would operate at mid-LOS D, LOS E, or LOS F in the Saturday midday peak hour. The weekday PM peak hour would also be the most congested in the study area as demonstrated by the overall number of approach movements projected to operate at mid-LOS D or worse, and in the number of approach movements projected to operate in LOS E or LOS F. Overall, the number of approaches that would operate at mid-LOS D or worse under the 2017 Future with the Proposed Actions condition was determined to be slightly in less than under the 2019 Future with the Proposed Actions condition, as indicated in a comparison of Tables 17-22 and Table 17-23.

Table 17-23 2017 Future with the Proposed Actions: Number of Intersection Approach Movements at Mid-LOS D. LOS E or LOS F

		Analy	sis Hour	,
Level of Service	AM	Weekday Midday	PM	Saturday Midday
Mid-LOS D	<u>15(+2)</u>	<u>22(-1)</u>	<u>10(-1)</u>	<u>20(n/c)</u>
LOS E	<u>26(+1)</u>	<u>13(n/c)</u>	32(+3)	<u>9(n/c)</u>
LOS F	77(+4)	74(+8)	108(+6)	52(+3)

Note: (+/-X) indicates the change in the number of intersection approach movements within each LOS from that of Future Without the Proposed Actions condition. (n/c) indicates no change from that of the Future Without the Proposed Actions condition.

Detailed Future with and without the Proposed Actions analysis results, including v/c ratio, delay, and LOS, for intersections with one or more approach or lane group operating at mid-LOS D or worse are provided in Table 17-25A through 17-25D for the weekday AM, midday, PM and Saturday midday 2019 Build peak hours, and in Table 17-26A through 17-26D for the weekday AM, midday, PM and Saturday midday interim year 2017 peak hours.

SIGNIFICANT ADVERSE TRAFFIC IMPACTS

Based on the thresholds established for signalized intersections in the *CEQR Technical Manual*, a significant adverse traffic impact would occur if a No Build LOS A, B or C deteriorates to unacceptable mid-LOS D, or a LOS E or F in the Future with the Proposed Actions condition.

The CEQR Technical Manual further states that, for a future without the proposed actions condition mid-LOS D, an increase of five or more seconds of delay in a lane group in the future with the proposed actions condition should be considered significant. For No Build LOS E, an increase in delay of four seconds should be considered significant. For No Build LOS F, a three second increase in delay should be considered significant. However, if a No Build LOS F condition already has delays in excess of 120 seconds, an increase of one second in delay should be considered significant, unless the proposed action would generate fewer than five vehicles through that lane group in the peak hour. For unsignalized intersections, similar impact criteria are applicable; however, for a minor street to trigger a significant impact, 90 passenger car equivalents must be identified in the future with the proposed actions condition in any peak hour.

Table 17-24 summarizes the number of intersection approach movements with significant adverse impacts in the 2019 and 2017 Future with the Proposed Actions conditions. In the 2019 Future with the Proposed Actions condition, <u>82</u> approach movements with significant adverse impacts were identified at 64 intersections during the weekday AM peak hour, <u>77</u> approach movements with significant adverse impacts were identified at 60 intersections during the weekday midday peak hour, <u>99</u> approach movements with significant adverse impacts were identified at <u>48</u> intersections during the Saturday midday peak hour. In the 2017 Future with the Proposed Actions condition, <u>70</u> approach movements with significant adverse impacts were identified at <u>59</u> intersections during the weekday AM peak hour, <u>64</u> approach movements with significant adverse impacts were identified at <u>50</u> intersections during the weekday midday peak hour, <u>87</u> approach movements with significant adverse impacts were identified at <u>71</u> intersections during the weekday PM peak hour, and <u>43</u> approach movements with significant adverse impacts were identified at <u>42</u> intersections during the Saturday midday peak hour.

Table 17-24 2017 and 2019 Future with the Proposed Actions: Number of Significantly Impacted Approach Movements

		Analys	is Hour	
Analysis Year	AM	Weekday Midday	PM	Saturday Midday
2019	<u>82</u>	<u>77</u>	<u>99</u>	<u>52</u>
2017	70	64	<u>87</u>	<u>43</u>

Appropriate measures to mitigate these significant impacts are <u>identified</u> along with the evaluation of their effectiveness in Chapter 24, "Mitigation."

Intersections where significant traffic impacts are projected to occur are presented in Figures 17-69 through 17-72 for 2019 Future with the Proposed Actions weekday AM, midday, PM, and Saturday midday conditions, respectively. Figures 17-73 through 17-76 present intersections with significant impacts for interim year 2017 Future with the Proposed Actions weekday AM, midday, PM, and Saturday midday conditions, respectively.

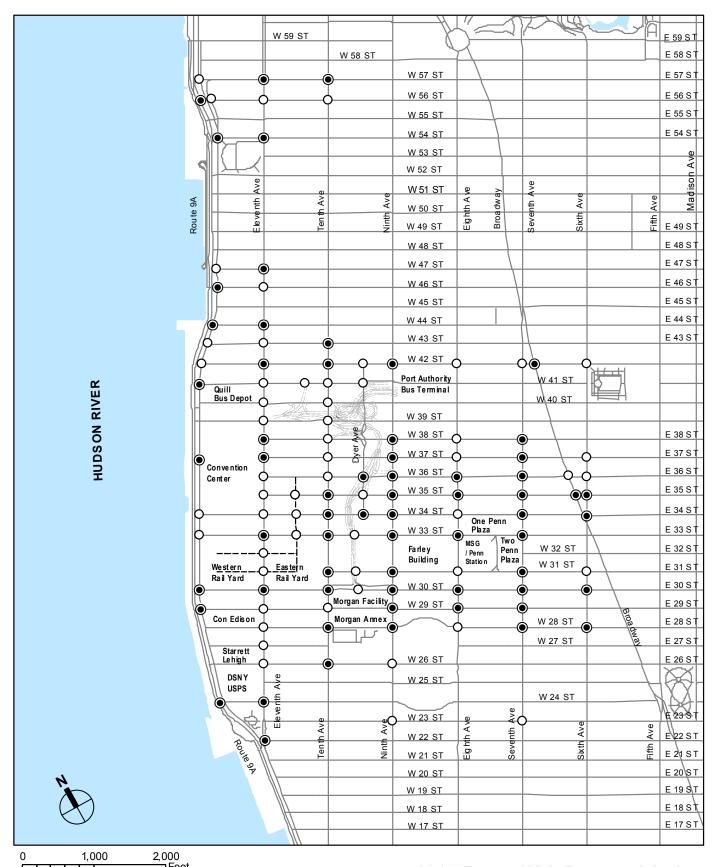
Shaded intersection approaches/movements in Table 17-25A through 17-25D and in Table 17-26A through 17-26D indicate where significant impacts are projected to occur under CEQR criteria. Also indicated is the incremental average delay in seconds per vehicle for each intersection approach/movement relative to the 2019 and 2017 Future without the Proposed Actions conditions.

Nearly every significant adverse traffic impact identified for 2019 Future with the Proposed Actions conditions would also occur in the 2017 interim Future with the Proposed Actions conditions. However, five significant adverse traffic impacts identified in the 2017 interim Future with the Proposed Actions condition would not occur in 2019 due to changes in parking supply at the Development Site and changes in projected traffic assignments.

PARKING CONDITIONS

Off-street parking conditions were analyzed considering the anticipated full mixed-use development of the Development Site in 2019 under the specific parking demand characteristics of the Maximum Commercial Scenario, the Maximum Residential Scenario-Office Option, and the Maximum Residential Scenario-Hotel Option in order to determine which scenario generates the highest off-street demand during the weekday midday and weekday overnight analysis periods. As described for the Future without the Proposed Actions condition, no on-street parking supply was assumed to be available to absorb future parking demand. As stated above, a total of up to 1,600 accessory parking spaces would be provided on the Development Site as a result of the Proposed Actions, with 270 of these spaces accessory for commercial uses and 1,330 spaces accessory for residential uses.

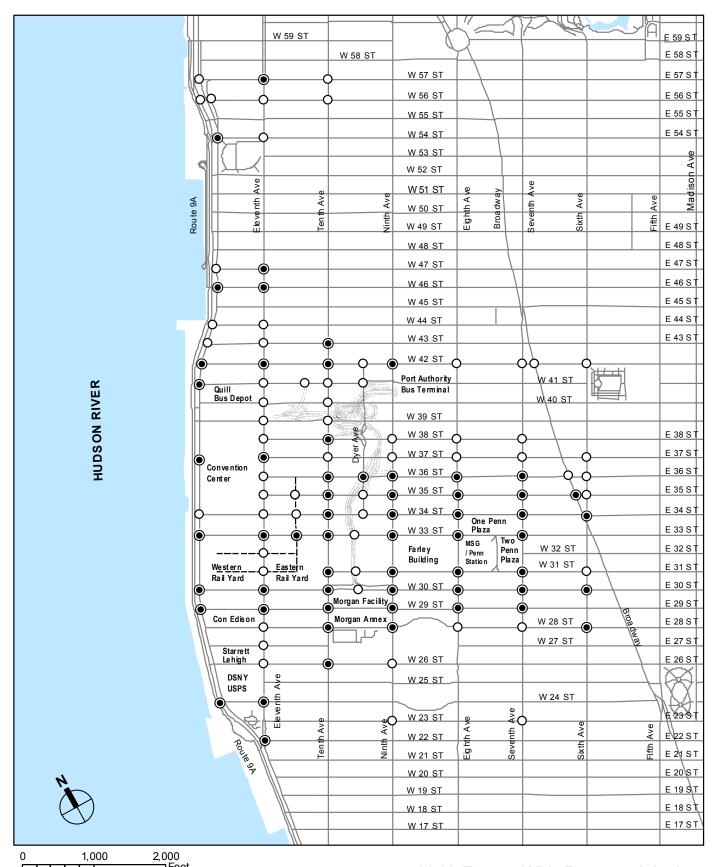
Table 17-27 provides the 2019 off-street parking utilization projections for each development scenario. It should be noted that the off-street supply indicated is that related to off-site parking facilities and the demand and utilization rates reflect off-site conditions after the absorption of project-generated parking demand by the accessory parking supply provided as part of the Proposed Actions on the Development Site. As shown, the maximum weekday midday and weekday overnight off-site, off-street demand would be generated by the Maximum Residential Scenario-Hotel Option. The weekday midday off-street parking shortfall under this scenario is projected to be 2,379 spaces, a shortfall approximately 320 spaces above No Build levels. Weekday overnight off-street off-site parking spaces are projected to be available under all development scenarios.



Significant Impact

---- New Streets (Not to Scale)

2019 Future With Proposed Action: Intersections With Significant Adverse Impacts (Weekday AM Peak Hour)

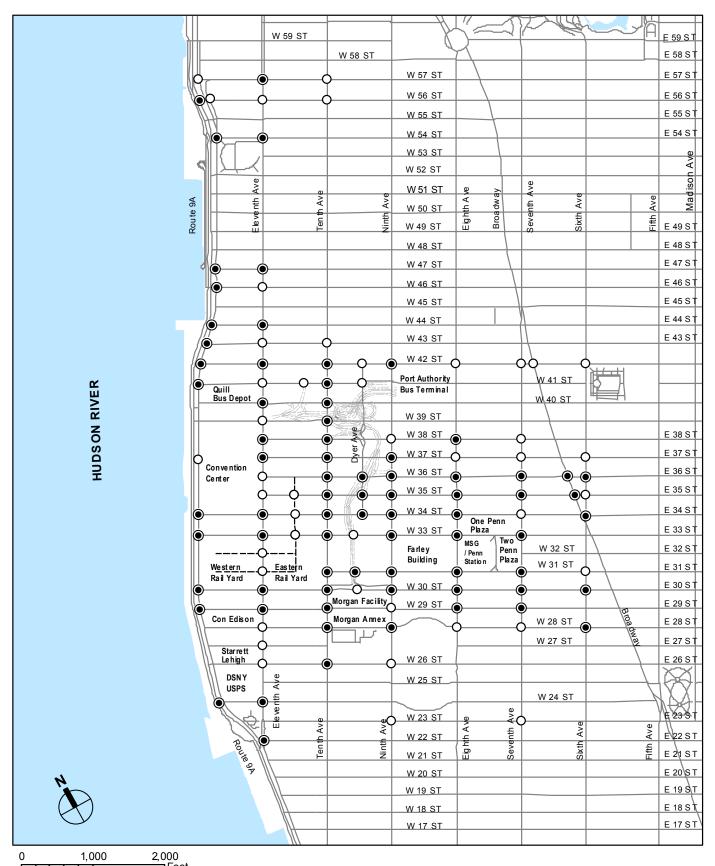


Significant Impact

---- New Streets (Not to Scale)

2019 Future With Proposed Action: Intersections With Significant Adverse Impacts (Weekday Midday Peak Hour)

Figure 17-70

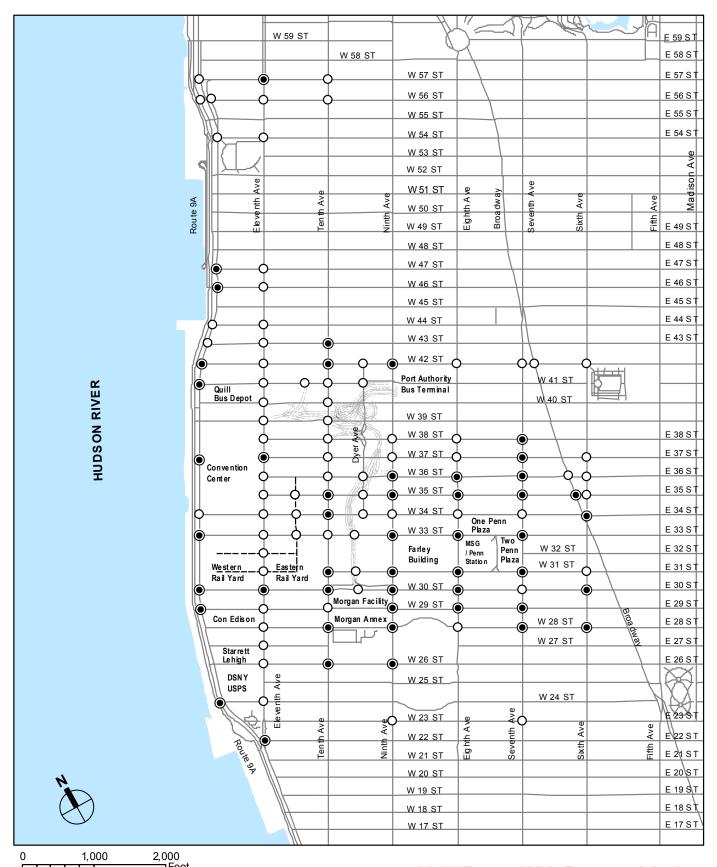


Significant Impact

---- New Streets (Not to Scale)

2019 Future With Proposed Action: Intersections With Significant Adverse Impacts (Weekday PM Peak Hour)

Figure 17-71

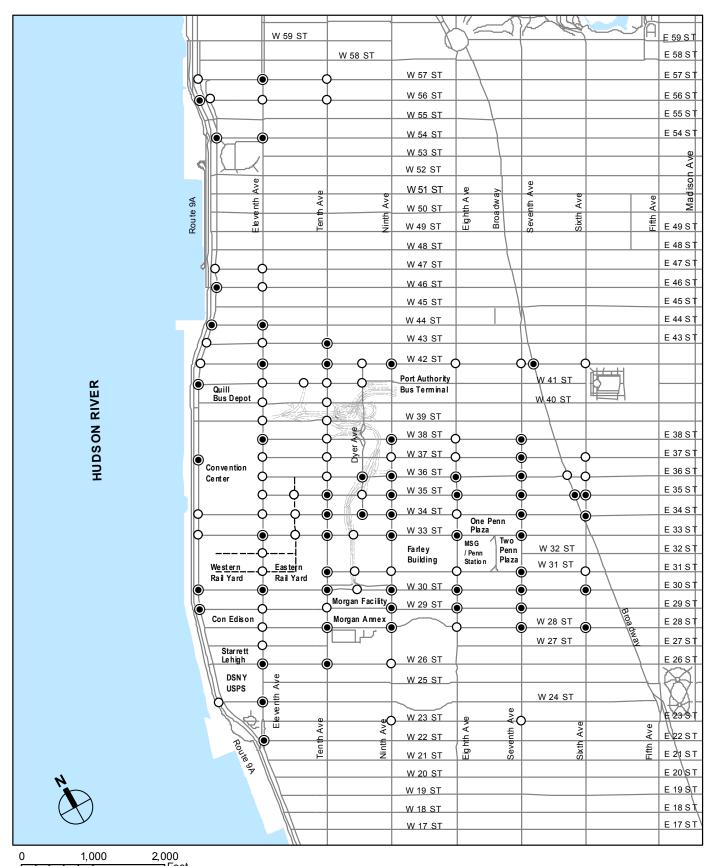


Significant Impact

---- New Streets (Not to Scale)

2019 Future With Proposed Action: Intersections With Significant Adverse Impacts (Saturday Midday Peak Hour)

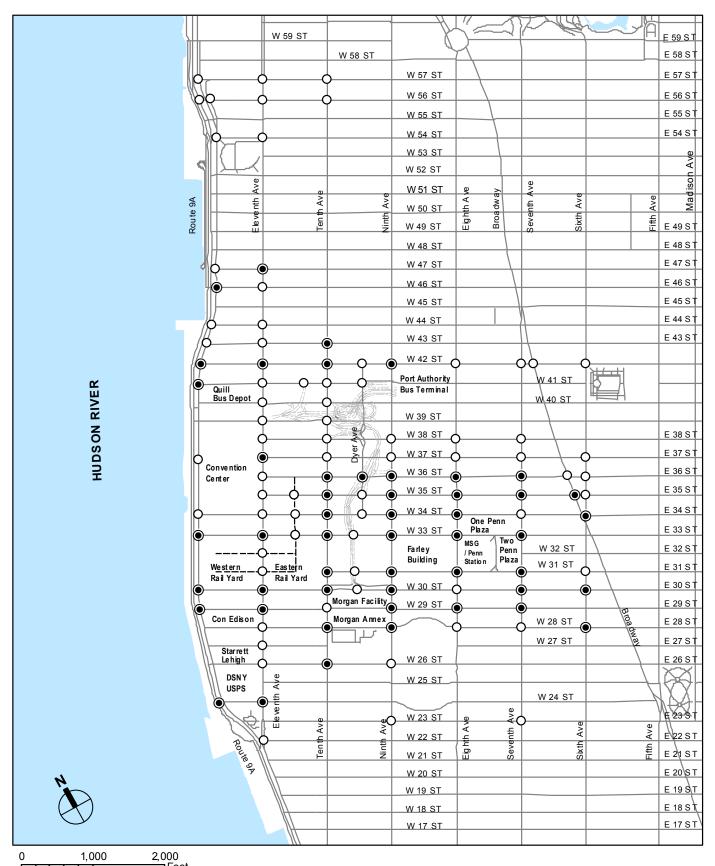
WESTERN RAIL YARD Figure 17-72



Significant Impact

---- New Streets (Not to Scale)

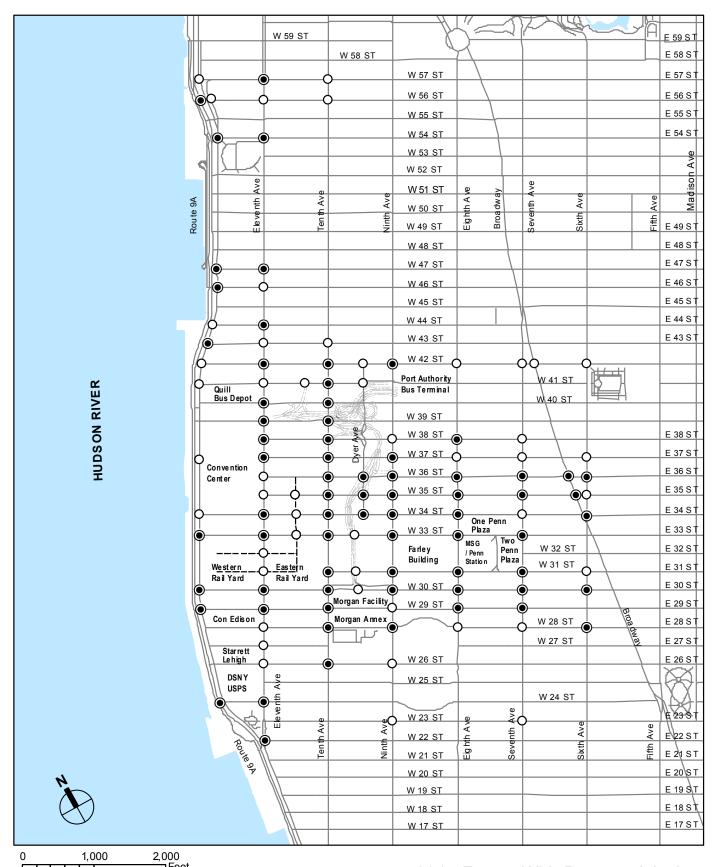
2017 Future With Proposed Action: Intersections With Significant Adverse Impacts (Weekday AM Peak Hour)



Significant Impact

---- New Streets (Not to Scale)

2017 Future With Proposed Action: Intersections With Significant Adverse Impacts (Weekday Midday Peak Hour)

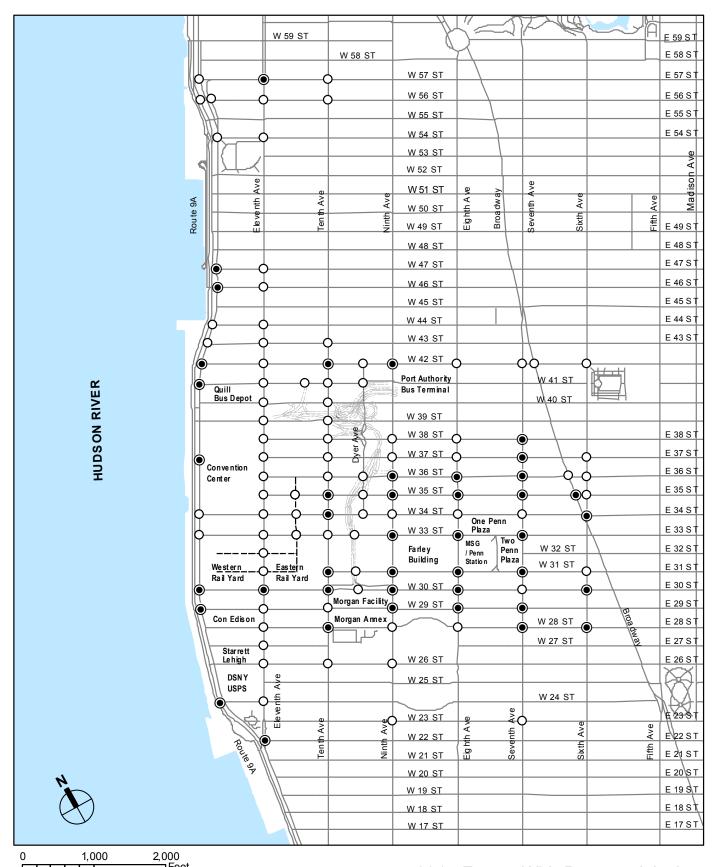


Significant Impact

---- New Streets (Not to Scale)

2017 Future With Proposed Action: Intersections With Significant Adverse Impacts (Weekday PM Peak Hour)

WESTERN RAIL YARD Figure 17-75



Significant Impact

---- New Streets (Not to Scale)

2017 Future With Proposed Action: Intersections With Significant Adverse Impacts (Saturday Midday Peak Hour)

WESTERN RAIL YARD Figure 17-76

Table 17-25A 2019 Future with the Proposed Actions: Weekday AM Peak Hour Intersection Approach Movements Operation at LOS Mid-D, E, or \mathbb{F}^1

	Intersection Approach Movements Operation at LOS Mid-D, E 2019 Future Without the Proposed Action 2019 Future With the Proposed Action										
	2019 Fut	ure Without	the Pro	posed Act	ion		2019 Future	With the	e Propose	d Acti	
L. de constitue			V/C	Delay				V/C	Delay		Delay Increment
Intersection	Approach	Movement	Ratio	Sec/Veh			Movement	Ratio	Sec/Veh		Sec/Veh
Sixth Avenue @ 28th Street	EB	LT	1.22	342.9	F	EB	LT	1.25	356.1	F	13.2
Sixth Avenue @ 30th Street	EB NB	LT TR	1.41	380.2 86.3	F F	EB NB	LT TR	1.49	414.8 108.8	F	34.6 22.5
	NB	T	1.44	329.0	F	NB	T	1.46	335.6	F	6.6
Sixth Avenue @ 34th Street	SB	T	1.64	505.2	F	SB	Ť	1.64	505.2	F	0.0
Sixth Avenue @ 35th Street	WB	TR	0.96	52.0	D	WB	TR	1.01	100.5	F	48.5
Sixth Avenue @ 42nd Street	WB	R	0.85	61.0	E	WB	R	0.85	61.0	Е	0.0
Seventh Avenue @ 23rd Street	EB	TR	0.93	46.8	D	EB	TR	0.93	47.6	D	0.8
Seventh Avenue @ 28th Street	EB	TR	0.95	328.7	F	EB	TR	1.00	357.3	F	28.6
Seventh Avenue @ 29th Street	WB	LT T	1.29	385.6	F	WB EB	LT T	1.35	409.7	F	24.1
Seventh Avenue @ 30th Street	EB EB	T R	1.35 0.85	427.0 44.6	D	EB	T R	1.45 0.88	467.4 47.8	F D	3.2
Seventh Avenue @ 31st Street	WB	LT	1.29	365.9	F	WB	LT	1.33	380.4	F	14.5
	WB	LT	1.21	581.9	F	WB	LT	1.22	580.4	F	-1.5
Seventh Avenue @ 33rd Street	SB	TR	1.12	112.1	F	SB	TR	1.15	124.6	F	12.5
Seventh Avenue @ 34th Street	EB	Т	1.01	105.2	F	EB	Т	1.06	296.8	F	191.6
Seventh Avenue @ 35th Street	WB	L	0.87	50.5	D	WB	L	0.88	52.2	D	1.7
	WB	LT	1.26	421.9	F	WB	LT	1.37	470.5	F	48.6
Seventh Avenue @ 36th Street	EB	TR	1.26	436.5	F	EB	TR	1.28	447.1	F	10.6
Seventh Avenue @ 37th Street	WB	LT	0.96	44.7	D	WB	LT	0.99	51.8	D	7.1
Seventh Avenue @ 38th Street	EB	TR	1.16	389.5	F	EB	TR	1.18	394.2	F	4.7
Eighth Avenue @ 29th Street	WB	TR	1.26	389.9	F	WB	TR	1.32	412.1	F	22.2
Eighth Avenue @ 30th Street Eighth Avenue @ 33rd Street	EB NB	LT LT	1.27	389.5 138.5	F	EB NB	LT LT	1.35	420.4 145.1	F	30.9 6.6
Eighth Avenue @ 34th Street	NB	LTR	1.10	147.6	F	NB	LTR	1.10	146.0	F	-1.6
Eighth Avenue @ 35th Street	WB	TR	1.73	660.4	F	WB	TR	1.84	702.9	F	42.5
Eighth Avenue @ 36th Street	EB	LT	1.05	341.6	F	EB	LT	1.09	353.8	F	12.2
Ninth Avenue @ 23rd Street	EB	TR	0.95	60.0	Ē	EB	TR	0.96	61.7	E	1.7
Ninth Avenue @ 28th Street	EB	TR	1.21	388.3	F	EB	TR	1.27	410.4	F	22.1
Ninth Avenue @ 29th Street	SB	TR	1.13	134.7	F	SB	TR	1.14	139.3	F	4.6
Ninth Avenue @ 30th Street	EB	TR	1.21	475.2	F	EB	TR	1.31	515.9	F	40.7
	SB	L	1.62	428.7	F	SB	L	1.62	428.7	F	0.0
Ninth Avenue @ 31st Street	WB	LTR	0.90	42.4	D	WB	LTR	0.94	47.4	D	5.0
Ninth Avenue @ 33rd Street	WB	LT	1.03	193.7	F	WB	LT	1.13	396.4	F	202.7
	EB	T	0.93	58.8	E	EB	T	0.98	69.0	E	10.2
Ninth Avenue @ 34th Street	EB WB	R DefL	2.01 0.88	761.6 58.7	F E	EB WB	R DefL	2.04 0.91	776.4 65.8	F E	14.8 7.1
	SB	LTR	1.26	215.3	F	SB	LTR	1.28	225.2	F	9.9
Ninth Avenue @ 35th Street	WB	LT	1.59	606.3	F	WB	LT	1.70	649.9	F	43.6
	EB	TR	1.10	180.6	F	EB	TR	1.14	195.9	F	15.3
Ninth Avenue @ 36th Street	SB	LT	1.10	113.1	F	SB	LT	1.13	123.5	F	10.4
Ninth Avenue @ 37th Street	WB	LT	0.85	41.6	D	WB	LT	0.91	47.3	D	5.7
Ninth Avenue @ 38th Street	EB	TR	1.20	483.9	F	EB	TR	1.22	487.9	F	4.0
Ninth Avenue @ 42nd Street	WB	DefL	1.12	566.4	F	WB	DefL	1.13	619.4	F	53.0
	SB	LTR	1.09	138.9	F	SB	LTR	1.11	146.8	F	7.9
Tenth Avenue @ 26th Street	EB	LT	1.11	410.6	F	EB	LT	1.15	423.8	F	13.2
Tenth Avenue @ 28th Street	EB	LT	1.40	534.0	F	EB	LT	1.46	557.2	F	23.2
Tenth Avenue @ 30th Street	EB	LT	2.01	768.6	F	EB	LT D	2.47	977.3	F	208.7
Tenth Avenue @ 31st Street	NB WB	R R	0.83 1.26	29.1 348.8	C F	NB WB	R R	0.98 1.36	58.5 396.7	E F	29.4 47.9
Tenth Avenue @ 33rd Street	WB	TR	0.94	50.6	D	WB	TR	1.03	175.7	F	125.1
Tenth Avenue @ 34th Street	EB	DefL	0.79	58.5	E	EB	DefL	0.93	84.8	F	26.3
Tenth Avenue @ 35th Street	WB	TR	1.53	443.1	F	WB	TR	1.71	520.1	F	77.0
Tenth Avenue @ 41st Street	NB	L	0.88	45.9	D	NB	L	0.88	45.9	D	0.0
	•					•					

¹ This table has been revised for the FEIS.

Table 17-25A (cont'd) 2019 Future with the Proposed Actions: Weekday AM Peak Hour Intersection Approach Movements Operation at LOS Mid-D. E. or F

Intersection Approach Movements Operation at LOS Mid-D, E, or 2019 Future Without the Proposed Action 2019 Future With the Proposed Action											
	2019 Fut	ure Without	the Pro	posed Act	ion		2019 Future	With the	e Propose	d Acti	
Intersection	Approach	Movement	V/C Ratio	Delay Sec/Veh	LOS	Approach	Movement	V/C Ratio	Delay Sec/Veh	LOS	Delay Increment Sec/Veh
Tenth Avenue @ 42nd Street	EB	LT	2.05	750.4	F	EB	LT	2.08	768.5	F	18.1
	WB	TR	1.06	296.4	F	WB	TR	1.06	298.2	F	1.8
Tenth Avenue @ 43rd Street	NB	LT	1.23	177.9	F	NB	LT	1.24	181.3	F	3.4
Tenth Avenue @ 57st Street	EB	LT	1.08	370.1	F	EB	LT T	1.09	376.0	F	5.9
Eleventh Avenue / Twelfth Ave	SB (11th)	T TR	0.57	54.2 54.1	D D	SB (11th)	T TR	0.56 0.48	54.1 55.6	D E	-0.1 1.5
@ 22nd Street	NB (12th)	T	1.07	115.2	F	NB (12th)	T	1.09	120.6	F	5.4
Eleventh Avenue @ 24th Street	SB	TR	1.25	217.9	F	SB	TR	1.29	236.0	F	18.1
Eleventh Avenue @ 26th Street	EB	TR	1.09	413.4	F	EB	TR	1.09	413.4	F	0.0
Eleventh Avenue @ 30th Street	EB	TR	1.05	261.8	F	EB	TR	1.30	399.0	F	137.2
Lieveniii Avenue @ 30tii Street	SB	LT	1.05	124.2	F	SB	LT	1.19	177.9	F	53.7
Eleventh Avenue @ 33rd Street	WB	L	0.53	33.7	С	WB	L	0.97	86.3	F	52.6
		LT	0.63	32.9	С		LT	0.97	62.3	E	29.4
Eleventh Avenue @ 37th Street	WB WB	L R	0.75 0.68	54.0 49.4	D D	WB WB	R R	0.87	68.6 49.4	E D	14.6 0.0
Eleventh Avenue @ 38th Street	SB	LT	1.09	115.1	F	SB	LT	1.14	134.8	F	19.7
Eleventh Avenue @ 42nd			1.00	110.1	-				104.0		10.1
Street	SB	LT	1.00	45.0	D	SB	LT	1.03	115.5	F	70.5
Eleventh Avenue @ 44th Street	EB	LTR	1.26	593.6	F	EB	LTR	1.27	597.9	F	4.3
Eleventh Avenue @ 47th Street	WB	LTR	0.98	71.2	E	WB	LTR	1.00	77.1	Е	5.9
Eleventar/tvende @ 47th Offeet	SB	TR	0.95	36.6	D	SB	TR	0.98	54.2	D	17.6
Eleventh Avenue @ 54th Street	EB	LTR	1.49	535.4	F	EB	LTR	1.52	547.2	F	11.8
	NB ED	L	0.84	57.0	E	NB	L	0.86	63.1	Е	6.1
Eleventh Avenue @ 56th Street	EB EB	LTR L	1.08	290.9 631.9	F F	EB EB	LTR L	1.08			0.0
	EB	TR	1.14	384.8	F	EB	TR	1.14			2.6
Eleventh Avenue @ 57th Street	WB	L	1.03	204.8	F	WB	L	1.03			-0.1
		L	1.52	491.5	F		L	1.53	290.9 F 631.9 F 387.4 F 204.7 F 497.6 F 145.8 F 68.2 E 68.5 E	6.1	
	SB	TR	1.24	138.6	F	SB	TR	1.26	145.8	F	7.2
		L	0.56	70.3	Е		L	0.52	68.2		-2.1
	WB	LTR	0.49	67.7	E	WB	LTR	0.52		Е	8.0
Twelfth Avenue @ 24th Street		R	0.49	68.4	E	110	R	0.53	70.0	E	1.6
	NB	TR	1.01	82.1	F	NB	TR	1.02	93.7	F	11.6
Twelfth Avenue @ 29th Street	SB WB	L LR	1.09	506.5 840.6	F	SB WB	L LR	1.09	506.5 959.6	F	0.0 119.0
Twelfth Avenue @ 30th Street	SB	L	1.02	377.3	F	SB	I	1.35	418.7	F	41.4
TWENTITY VEHICL & SOUT CHECK		L	0.43	58.8	Ē		L	0.47	60.4	E	1.6
Twelfth Avenue @ 34th Street	WB	LR	0.43	58.5	E	WB	LR	0.45	59.3	E	0.8
	SB	L	0.60	63.3	Е	SB	L	0.67	65.7	Е	2.4
	EB	LR	0.13	52.8	D	EB	LR	0.13	52.6	D	-0.2
Twelfth Avenue @ Pier 79 Ferry		R	0.12	52.9	D		R	0.13	53.2	D	0.3
Terminal	NB	L	0.10	63.7	E	NB	L	0.10	63.7	E	0.0
	SB	TR	1.16	150.1	F	SB	TR	1.18	157.7	F	7.6
	WB	L R	0.09	50.8	D E	WB	L R	0.09	50.8 56.8	D E	0.0
Twelfth Avenue @ 41st Street	NB	T	0.41 1.15	56.8 157.1	F	NB	T	1.17	167.3	F	10.2
	SB	T	1.16	126.2	F	SB	T	1.17	134.2	F	8.0
	EB	LTR	0.04	46.2	D	EB	LTR	0.04	46.2	D	0.0
T	WB	L	0.32	52.2	D	WB	L	0.32	52.2	D	0.0
Twelfth Avenue @ 42nd Street	NB	Т	0.98	53.4	D	NB	Т	1.00	58.1	Е	4.7
	SB	L	0.74	63.1	Е	SB	L	0.75	63.5	Е	0.4
Twelfth Avenue @ 43rd Street	WB	LTR	0.78	72.8	E	WB	LTR	0.78	72.8	E	0.0
	NB	L	1.00	172.9	F	NB	L	1.00	172.9	F	0.0
Twelfth Avenue @ 44th Street	SB	L	1.09	291.7	F	SB	L	1.11	297.1	F	5.4
Twelfth Avenue@ 46th Street	EB	LTR	0.28	56.6	E F	EB NB	LTR	0.28	56.6 118.8	E F	0.0
i wellth Avenue @ 40th Street	NB SB	TR L	0.97	108.8 72.7	E	SB	TR L	0.98	73.0	E	10.0 0.3
	WB	R	0.58	61.5	E	WB	R	0.58	61.5	E	0.0
T 101 A 0 = 11 2	NB	TR	1.02	105.4	F	NB	TR	1.03	109.0	F	3.6
Twelfth Avenue @ 54th Street	SB	L	0.72	69.3	E	SB	L	0.72	69.8	E	0.5
	SB	Т	1.19	133.4	F	SB	T	1.20	139.6	F	6.2

Table 17-25A (cont'd) 2019 Future with the Proposed Actions: Weekday AM Peak Hour Intersection Approach Movements Operation at LOS Mid-D, E, or F

	2019 Fut	ure Without	the Pro	posed Act	ion		2019 Future	With the	e Propose	d Acti	on
Intersection	Approach	Movement	V/C Ratio	Delay Sec/Veh	LOS	Approach	Movement	V/C Ratio	Delay Sec/Veh	LOS	Delay Increment Sec/Veh
Twelfth Avenue @ 56th Street (SR)	NB	TR	0.94	58.4	Е	NB	TR	0.95	58.6	Е	0.2
Twelfth Avenue @ 56th Street	NB	Т	1.17	169.7	F	NB	Т	1.18	175.9	F	6.2
SB L 1.00 56.9 E SB L 1.00 56.9 E											
Broadway @ 35th Street	WB										53.4
Broadway @ 42nd Street	WB	DefL	1.36	654.9	F	WB	DefL	1.39	674.9	F	20.0
		L	0.98	93.1	F		L	0.99	206.8	F	113.7
Dyer Ave @ 34th Street	SB	LR	0.99	96.1	F	SB	LR	1.01	234.2	F	138.1
		R	0.99	100.3	F		R	1.05	115.2	F	14.9
Dyer Ave @ 36th Street	EB	LTR	0.78	96.3	F	EB	LTR	0.82	108.9	F	12.6
		Unsig	nalized	Intersecti	ons						
	2018 Fut	ure Without	the Prop	osed Acti	ion	2018 Fı	ture With th	e Propo	sed Actio	n	
			V/C	Delay				V/C	Delay		
Intersection	Approach	Movement	Ratio	Sec/Veh	LOS	Approach	Movement	Ratio	Sec/Veh	LOS	
	(No	Intersections	with Sig	ınificant ad	verse I	mpacts)		,			

Notes:

Shading denotes approach movement subject to significant adverse impact. No shading denotes movement with 45.0 or more seconds of delay, but not subject to significant adverse impact

Delay calculated at greater than 300 seconds is considered unreliable, though the congestion at this level is considered an impact.

Negative delay increments are attributable to rounding, changes in heavy vehicle percentages, shared lane percentages, or pedestrian volumes LOS = Level of Service

EB - Eastbound, WB - Westbound, NB - Northbound, SB - Southbound

L - Left, T- Through, R - Right, DefL - De Facto Left Turn

(LnT) - Lincoln Tunnel approach lane(s)

Table 17-25B 2019 Future with the Proposed Actions: Weekday Midday Peak Hour Intersection Approach Movements Operating at LOS Mid-D. E. or F¹

intersection Approach Movements Operating at LOS wiid-D, E, or i											
	2019 Fu	ture Without	the Prop	osed Actio	n	2	019 Future V	Vith the	Proposed	Actio	n
Intersection	Approach	Movement	V/C Ratio	Delay Sec/Veh	LOS	Approach	Movement	V/C Ratio	Delay Sec/Veh	LOS	Delay Increment Sec/Veh
Sixth Avenue @ 28th Street	EB	LT	1.20	335.5	F	EB	LT	1.23	345.4	F	9.9
Sixth Avenue @ 30th Street	EB	LT	1.33	346.2	F	EB	LT	1.41	381.6	F	35.4
Sixtii Avenue @ Sotii Street	NB	TR	0.92	53.9	D	NB	TR	0.92	55.4	Е	1.5
Sixth Avenue @ 31st Street	NB	LT	0.91	44.0	D	NB	LT	0.92	48.5	D	4.5
Sixth Avenue @ 34th Street	NB	Т	1.18	207.0	F	NB	T	1.20	214.3	F	7.3
Sixtii Aveilue @ 54tii Street	SB	T	1.54	461.4	F	SB	T	1.54	461.4	F	0.0
Sixth Avenue @ 36th Street	EB	L	0.94	81.6	F	EB	L	0.94	81.6	F	0.0
Sixth Avenue @ 42nd Street	WB	R	0.82	50.1	D	WB	R	0.84	53.5	D	3.4
Seventh Avenue @ 23rd Street	EB	TR	0.91	45.0	D	EB	TR	0.92	46.0	D	1.0
Seventh Avenue @ 29th Street	WB	LT	1.46	451.8	F	WB	LT	1.50	468.5	F	16.7
Seventh Avenue @ 30th Street	EB	T	1.32	414.3	F	EB	T	1.43	458.0	F	43.7
Seventh Avenue @ 31st Street	WB	LT	1.37	410.7	F	WB	LT	1.41	426.2	F	15.5
Seventh Avenue @ 33rd Street	WB	LT	1.48	671.2	F	WB	LT	1.49	675.8	F	4.6
Seventin Avenue @ 331d Street	SB	TR	1.02	75.7	Е	SB	TR	1.05	84.6	F	8.9
Seventh Avenue @ 34th Street	EB	T	0.89	46.2	D	EB	T	0.93	52.3	D	6.1
Seventh Avenue @ 35th Street	WB	LT	1.05	266.7	F	WB	LT	1.12	372.9	F	106.2
Seventh Avenue @ 36th Street	EB	TR	1.06	285.2	F	EB	TR	1.09	330.5	F	45.3
Eighth Avenue @ 29th Street	WB	TR	1.49	465.7	F	WB	TR	1.53	481.6	F	15.9
Eighth Avenue @ 30th Street	EB	LT	1.21	365.8	F	EB	LT	1.26	377.0	F	11.2
Eighth Avenue @ 31st Street	WB	TR	1.10	367.0	F	WB	TR	1.12	371.3	F	4.3
Eighth Avenue @ 33rd Street	NB	LT	1.18	177.5	F	NB	LT	1.19	183.3	F	5.8

¹ This table has been revised for the FEIS.

Table 17-25B (cont'd) 2019 Future with the Proposed Actions: Weekday Midday Peak Hour Intersection Approach Movements Operating at LOS Mid-D, E, or F

Intersection		Intersection Approach Movements Operating at LOS Mid-D, E,										
Intersection		2019 Fu	ture Without	the Prop	osed Actio	n	2	019 Future V	vith the	Proposed	Actio	
Eighth Avenue @ 34th Street	Intersection	Approach	Movement		Delay Sec/Veh	LOS	Approach	Movement			LOS	Increment
Eighth Avenue @ 35th Street	Eighth Avenue @ 34th Street	WB	LTR	1.13					1.13	155.8	F	2.1
Eighth Avenue @ 36th Street												
Ninth Avenue @ 28th Street	· ·											
Ninth Avenue @ 29th Street SB	Eighth Avenue @ 36th Street	NB	TR	1.04	102.0	F	NB	TR	1.04	103.3	F	1.3
Ninth Avenue @ 30th Street	Ninth Avenue @ 28th Street	EB	TR	1.07	323.7	F	EB	TR	1.12	340.6	F	16.9
Numin Avenue @ 31st Street WB	Ninth Avenue @ 29th Street	SB	TR	1.13	133.8	F	SB	TR	1.14	137.6	F	3.8
Ninth Avenue @ 31st Street	Ninth Avanua @ 20th Street	EB	TR	1.15	492.2	F	EB	TR	1.23	515.6	F	23.4
Ninth Avenue @ 34th Street		SB	L	2.10	655.6	F	SB	L	2.10	655.6	F	0.0
Ninth Avenue @ 34th Street	Ninth Avenue @ 31st Street	WB	LTR	1.01	97.3	F	WB	LTR	1.03	176.2	F	78.9
Ninth Avenue @ 34th Street	Ninth Avenue @ 33rd Street	WB		1.50		F	WB					
Ninth Avenue @ 35th Street WB		FR		0.84	46.3		FR		0.88	51.4		
Ninth Avenue @ 36th Street	Ninth Avenue @ 34th Street											
Ninth Avenue @ 36th Street BB												
Ninth Avenue @ 37th Street	Ninth Avenue @ 35th Street	WB					WB					
Ninth Avenue @ 37th Street	Ninth Avenue @ 36th Street	EB					EB					
Ninth Avenue @ 38th Street EB												
Beautified Color												
Ninth Avenue @ 42nd Street WB	Ninth Avenue @ 38th Street											
SB	NI 11 A @ 40 101 1											
Tenth Avenue @ 26th Street EB	ININTH Avenue @ 42nd Street											
Tenth Avenue @ 28th Street	Tarath Assaura @ OOth Otarath											
Tenth Avenue @ 29th Street												
Tenth Avenue @ 30th Street												
Tenth Avenue @ 31st Street	Tenin Avenue @ 29th Street											
Tenth Avenue @ 31st Street	Tenth Avenue @ 30th Street											
Tenth Avenue @ 33rd Street Tenth Avenue @ 34rh Street EB Deft. 0.85 67.9 E EB Deft. 0.94 85.8 F 17.9 Tenth Avenue @ 34th Street WB R 1.27 483.7 F NB LT 1.10 113.9 F 12.9 Tenth Avenue @ 35th Street WB TR 1.32 360.7 F NB LTR 1.10 113.9 F 12.9 Tenth Avenue @ 35th Street NB LT 0.99 28.8 C NB LT 1.02 82.4 F 53.6 EB LT 0.42 133.6 F EB LT 0.44 135.4 F 1.8 Tenth Avenue @ 35th Street NB TR 1.05 91.0 F NB TR 1.08 103.0 F 12.0 Tenth Avenue @ 42nd Street WB TR 1.40 400.8 F WB TR 1.40 403.8 F SB TR 1.40 403.8 F 3.0 Tenth Avenue @ 57st Street WB TR 1.04 210.0 F WB TR 1.04 210.0 F NB LT 1.04 210.0 F 0.0 Eleventh Avenue @ 24th Street EB TR 0.92 67.6 E B TR 0.99 60.7 E B TR 1.09 60.7 E B TR 1.00 Eleventh Avenue @ 30th Street WB TR 1.40 0.90 43.7 D WB TR 1.04 210.0 F WB TR 1.04 210.0 F 0.0 Eleventh Avenue @ 30th Street WB TR 1.40 0.90 43.7 D WB LT 1.90 61.8 E 1.5 Eleventh Avenue @ 30th Street WB TR 1.04 210.0 F WB TR 1.04 210.0 F D WB LT 1.99 60.7 Eleventh Avenue @ 30th Street WB TR 1.40 0.90 43.7 D WB LT 0.99 60.7 E 1.0 Eleventh Avenue @ 30th Street BB TR 1.40 0.90 43.7 D WB LT 0.99 60.7 E 1.0 Eleventh Avenue @ 30th Street EB TR 1.00 283.7 F SB TR 1.40 21.0 F D WB TR 1.00 61.8 E 1.5 Eleventh Avenue @ 30th Street EB TR 1.40 0.90 43.7 D WB LT 0.99 60.7 E 17.0 Eleventh Avenue @ 30th Street EB TR 1.40 0.90 43.7 D WB LT 0.99 60.7 E 17.0 Eleventh Avenue @ 30th Street EB TR 1.23 364.3 F EB TR 1.1 1.9 224.4 F 65.0 Eleventh Avenue @ 30th Street EB TR 1.24 1.35 364.3 F EB TR 1.36 43.8 F 68.5 Eleventh Avenue @ 30th Street EB TR 1.25 5.5 D WB LT 1.00 188.2 F 135.7 Eleventh Avenue @ 30th Street EB TR 1.23 364.3 F EB TR 1.0 1.0 188.2 F 135.7 Eleventh Avenue @ 30th Street EB TR 1.23 564.3 F EB TR 1.0 1.0 198.2 F 135.7 Eleventh Avenue @ 30th Street EB TR 1.24 56.5 B TR 1.25 55 D WB LT 1.00 188.2 F 135.7 Eleventh Avenue @ 42nd Street EB TR 1.25 56.5 B TR 1.26 56.5 B TR 1.27 56.5 B	Tonth Avenue @ 21st Street											
Tenth Avenue @ 34th Street NB	Teritii Averide @ 31st Street											
Tenth Avenue @ 34th Street WB	Tenth Avenue @ 33rd Street											
Tenth Avenue @ 34th Street WB R 1.27 483.7 F WB R 1.29 485.4 F 1.7 NB LTR 1.07 101.0 F NB LTR 1.0 113.9 F 12.9 WB TR 1.32 386.7 F WB TR 1.43 400.4 F 39.7 Tenth Avenue @ 35th Street NB LT 0.99 28.8 C NB LT 1.02 82.4 F 53.6 Tenth Avenue @ 36th Street NB TR 1.05 91.0 F NB TR 1.04 135.6 F EB LT 0.44 135.4 F 1.8 Tenth Avenue @ 38th Street NB TR 1.05 91.0 F NB TR 1.04 135.6 F EB LT 0.44 135.4 F 1.8 Tenth Avenue @ 42nd Street WB TR 1.40 400.8 F WB TR 1.01 76.0 E 48.5 Tenth Avenue @ 43rd Street WB TR 1.40 400.8 F WB TR 0.57 117.6 F 1.1 Tenth Avenue @ 57st Street EB LT 0.56 116.5 F WB TR 0.57 117.6 F 1.1 Tenth Avenue @ 57st Street WB TR 1.04 210.0 F WB TR 1.04 210.0 F 0.0 Eleventh Avenue @ 24th Street SB TR 1.40 283.7 F SB TR 1.45 307.4 F 23.7 Eleventh Avenue @ 24th Street EB TR 0.92 67.6 E EB TR 0.92 67.6 E EB TR 0.92 67.6 E DB TR 1.38 432.8 F 66.5 Eleventh Avenue @ 33rd Street WB LT 0.99 63.3 F SB TR 1.45 307.4 F 23.7 Eleventh Avenue @ 24th Street EB TR 0.92 67.6 E EB TR 0.92 67.6 E EB TR 0.92 67.6 E DB TR 1.38 432.8 F 66.5 Eleventh Avenue @ 33rd Street Eleventh Avenue @ 33rd Street WB LT 0.99 67.6 E EB TR 0.92 67.6 E EB TR 0.92 67.6 E DB TR 1.29 183.8 F 66.5 Eleventh Avenue @ 37th Street WB LT 0.99 52.5 D WB LT 0.99 60.7 E 17.0 Eleventh Avenue @ 37th Street EB TR 1.23 364.3 F EB TR 1.38 432.8 F 66.5 Eleventh Avenue @ 37th Street WB LT 0.99 52.5 D WB LT 0.99 60.7 E 17.0 Eleventh Avenue @ 37th Street WB LT 0.99 52.5 D WB LT 0.99 68.5 F EB LT 0.99 68.5 F 135.7 Eleventh Avenue @ 42nd Street SB LT 0.10 58.8 R 0.74 46.7 D SB R R 0.74 47.4 D 0.7 Eleventh Avenue @ 47th Street SB LT 0.94 34.8 C SB T 0.94 47th Street Eleventh Avenue @ 47th Street Eleventh Avenue @ 47th Street WB LT 0.99 68.6 E WB LTR 0.94 65.6 E W												
NB	Tenth Avenue @ 34th Street											
Tenth Avenue @ 35th Street WB	Tenti / Wende & 54th Officet											
Tenth Avenue @ 35th Street NB												
Tenth Avenue @ 36th Street	Tenth Avenue @ 35th Street											
Tenth Avenue @ 36th Street NB TR 1.05 91.0 F NB TR 1.08 103.0 F 12.0												
Tenth Avenue @ 38th Street Tenth Avenue @ 42nd Street EB LT 2.24 930.9 F EB LT 2.28 949.2 F 18.3 WB TR 1.40 400.8 F WB TR 1.40 403.8 F 3.0 Tenth Avenue @ 43rd Street WB TR 0.56 116.5 F WB TR 0.57 117.6 F 1.1 NB LT 1.26 193.4 F NB LT 1.28 199.3 F 5.9 Tenth Avenue @ 57st Street EB LT 0.99 60.3 E EB LT 1.00 61.8 E 1.5 WB TR 1.04 210.0 F WB TR 1.04 210.0 F 0.0 Eleventh Avenue / Twelfth Ave @ 22nd Street SB TR 1.40 283.7 F SB TR 1.45 307.4 F 23.7 Eleventh Avenue @ 26th Street Eleventh Avenue @ 26th Street Eleventh Avenue @ 26th Street EB TR 0.92 67.6 E EB TR 0.92 67.6 E 0.0 Eleventh Avenue @ 29th Street Eleventh Avenue @ 30th Street Eleventh Avenue @ 30th Street Eleventh Avenue @ 30th Street Eleventh Avenue @ 37th Street Eleventh Avenue @ 37th Street Eleventh Avenue @ 42nd Street SB LT 1.14 159.4 F SB LT 1.29 224.4 F 65.0 Eleventh Avenue @ 37th Street Eleventh Avenue @ 37th Street SB LT 1.14 159.4 F SB LT 1.99 188.2 F 135.7 Eleventh Avenue @ 37th Street Eleventh Avenue @ 42nd Street SB LT 1.01 110.8 F SB LT 1.04 120.1 F 9.3 Eleventh Avenue @ 42nd Street SB R 0.74 46.7 D SB R R 0.74 47.4 D 0.7 Eleventh Avenue @ 44th Street EB LT 0.94 34.8 C SB T 0.97 45.3 D 10.5 Eleventh Avenue @ 44th Street Eleventh Avenue @ 44th Street EB LT 0.94 34.8 C SB T 0.97 45.3 D 10.5 Eleventh Avenue @ 44th Street Eleventh Avenue @ 44th Street EB LT 0.94 34.8 C SB T 0.97 45.3 D 10.5	Tenth Avenue @ 36th Street											
Tenth Avenue @ 42nd Street	Tenth Avenue @ 38th Street											
Tenth Avenue @ 42nd Street WB						F						
Tenth Avenue @ 43rd Street	renth Avenue @ 42nd Street											
Tenth Avenue @ 43rd Street	Tarab Assessed & 40 LOC											
Tenth Avenue @ 57st Street	renth Avenue @ 43rd Street											
Tenth Avenue @ 57st Street WB	Tonth Avenue @ 57-1 04-											
@ 22nd Street	renth Avenue @ 5/st Street											
Eleventh Avenue @ 24th Street SB		NB (12th)			111.8	F	NB (12th)	Т		119.1	F	
Eleventh Avenue @ 26th Street EB		SB	TR	1.40	283.7	F	SB	TR	1.45	307.4	F	23.7
Eleventh Avenue @ 29th Street WB												
Eleventh Avenue @ 30th Street EB												
SB			TR			F		TR				
L 0.87 67.9 E WB L 1.16 287.8 F 219.9	Eleventh Avenue @ 30th Street											
LT 0.91 52.5 D WB LT 1.09 188.2 F 135.7	Florenth Avenue @ 22rd Ctrast		L	0.87		Е		L			F	219.9
Eleventh Avenue @ 37th Street WB	Eleventh Avenue @ 33rd Street	WB					WB	LT				
SB	Eleventh Avenue @ 37th Street	WB	L		61.4	Е	WB	L			Е	10.7
SB R 0.74 46.7 D SB R 0.74 47.4 D 0.7	Floventh Avenus @ 42nd Ctrast		LT			F		LT				9.3
Eleventh Avenue @ 44th Street	Eleveritri Averiue @ 42nd Street	SB	R	0.74	46.7	D	SB	R	0.74	47.4	D	0.7
Eleventh Avenue @ 46th Street SB T 0.94 34.8 C SB T 0.97 45.3 D 10.5 Eleventh Avenue @ 47th Street WB LTR 0.98 68.6 E WB LTR 1.00 74.2 E 5.6	Eleventh Avenue @ 43rd Street	WB	LT	0.83	46.3	D	WB	LT	0.86	48.4	D	2.1
Fleventh Avenue @ 47th Street	Eleventh Avenue @ 44th Street	EB	LTR	0.82	45.9	D	EB	LTR	0.84	47.1	D	1.2
Fleventh Avenue @ 47th Street	Eleventh Avenue @ 46th Street			0.94	34.8			T	0.97	45.3		10.5
SB TR 0.95 38.8 D SB TR 0.97 49.3 D 10.5	Fleventh Avenue @ 47th Stroot		LTR	0.98	68.6	Е		LTR	1.00	74.2	Е	
	Lieveniii Avenue @ 47tii Street	SB	TR	0.95	38.8	D	SB	TR	0.97	49.3	D	10.5

Table 17-25B (cont'd) 2019 Future with the Proposed Actions: Weekday Midday Peak Hour Intersection Approach Movements Operating at LOS Mid-D, E, or F

		2019 Future Without the Proposed Action 2019 Future With the Proposed Action													
	2019 FU	iture without	tine Prop	osea Actio	m	2	UIS FUTURE V	vith the	rroposea	ACTIO					
			V/C	Delay				V/C	Delay		Delay Increment				
Intersection	Approach	Movement	Ratio	Sec/Veh	LOS	Annroach	Movement	Ratio	Sec/Veh	LOS	Sec/Veh				
Eleventh Avenue @ 54th Street	EB	LTR	0.92	67.5	E	EB	LTR	0.94	71.3	E	3.8				
Eleveritii Averiue @ 54tii Street	EB	TR	0.92	63.4	E	EB	TR	0.94	66.6	E	3.2				
	WB	I	1.21	599.3	F	WB	I	1.21	602.9	F	3.6				
Eleventh Avenue @ 57th Street	NB	L	0.90	98.7	F	NB	L	0.90	98.7	F	0.0				
Eleveritii Averide @ 57tii Street	SB	L	1.06	105.4	F	SB	L L	1.07	109.1	F	3.7				
	SB	TR	1.00	54.5	D	SB	TR	1.07	57.7	E	3.2				
	ЗБ	I K	0.51	47.4	D	36		0.49	46.9	D	-0.5				
	WD	LTR				WD	L LTR		47.4	D	0.0				
	WB	R	0.49	47.4 47.9	D D	WB	R	0.49 0.51	48.7	D	0.0				
Twelfth Avenue @ 24th Street	NB	TR			F	NB	TR	1.04		F	6.5				
	NB	IK	1.02	102.9	_	NR			109.4	F					
	SB	<u> </u>	0.79	91.6	F	SB	L	0.79	91.6		0.0				
T 101 A @ 201 Ot 1	WD	T	1.13	177.6	F	NA/D	T	1.14	178.5	F	0.9				
Twelfth Avenue @ 29th Street	WB	LR	1.51	772.5	F	WB	LR	1.79	892.9	F	120.4				
Twelfth Avenue @ 30th Street	SB	L.	1.37	388.4	F	SB	Ŀ	1.47	429.7	F	41.3				
Twelfth Avenue @ 34th Street	SB	Ŀ	0.72	62.0	E	SB	<u> </u>	0.74	63.3	E	1.3				
Twelfth Avenue @ Pier 79 Ferry	NB	L	0.20	50.4	D	NB	L	0.20	50.4	D	0.0				
Terminal	SB	TR	1.10	128.2	F	SB	TR	1.11	132.1	F	3.9				
Twelfth Avenue @ 41st Street	NB	Т	1.10	138.4	F	NB	T	1.12	147.4	F	9.0				
	SB	Т	1.10	107.6	F	SB	Т	1.11	111.6	F	4.0				
Twelfth Avenue @ 42nd Street	WB	L	0.60	45.7	D	WB	L	0.61	45.8	D	0.1				
- 1101111711011100 (3 12110 011001	NB	T	1.12	141.5	F	NB	T	1.14	150.2	F	8.7				
Twelfth Avenue @ 43rd Street	WB	LTR	0.76	53.6	D	WB	LTR	0.77	54.2	D	0.6				
	NB	L	0.33	59.2	Е	NB	L	0.33	59.2	Е	0.0				
Twelfth Avenue @ 44th Street	SB	L	0.96	81.9	F	SB	L	0.96	82.5	F	0.6				
Twelfth Avenue@ 46th Street	NB	TR	1.13	177.9	F	NB	TR	1.15	185.6	F	7.7				
	SB	L	0.65	76.4	Е	SB	L	0.65	76.4	Е	0.0				
Twelfth Avenue @ 54th Street	NB	TR	1.05	118.1	F	NB	TR	1.06	121.7	F	3.6				
Twelfth Avenue @ 56th Street	SB	L	1.20	479.2	F	SB	L	1.20	479.2	F	0.0				
Hudson Blvd NB @ 33rd Street	WB	TR	0.88	23.9	С	WB	TR	1.00	45.9	D	22.0				
Broadway @ 35th Street	WB	T	1.29	193.9	F	WB	T	1.37	225.6	F	31.7				
Broadway @ 42nd Street	WB	DefL	0.84	51.9	D	WB	DefL	0.85	53.2	D	1.3				
		L	0.61	46.2	D		L	0.63	47.1	D	0.9				
Dyer Ave @ 34th Street	SB	LR	0.60	46.4	D	SB	LR	0.61	47.2	D	0.8				
		R	0.61	47.5	D	1	R	0.60	47.0	D	-0.5				
Dyer Ave @ 36th Street EB TR 0.78 97.6 F EB LTR 0.83 115.2 F 17.6															
				ized Inters		ıs									
	2018 Fu	ture Without	t the Prop	osed Actio	n	2	018 Future V	Vith the	Proposed	Actio	n				
											Delay				
		l	V/C	Dolay	1			VIC	Dolay	1	Increment				

Delay Sec/Veh LOS Approach Delay Sec/Veh Increment Intersection Approach Movement Ratio Movement Ratio Sec/Veh Twelfth Ave @ 33rd Street WB

Notes:

Shading denotes approach movement subject to significant adverse impact. No shading denotes movement with 45.0 or more seconds of delay, but not subject to significant adverse impact

Delay calculated at greater than 300 seconds is considered unreliable, though the congestion at this level is considered an impact.

Negative delay increments are attributable to rounding, changes in heavy vehicle percentages, shared lane percentages, or pedestrian volumes LOS = Level of Service EB - Eastbound, WB - Westbound, NB - Northbound, SB - Southbound

L - Left, T- Through, R - Right, DefL - De Facto Left Turn

(LnT) - Lincoln Tunnel approach lane(s)

	2019 Future Without the Proposed Action 2019 Future With the Proposed Action									,,	
					<u> </u>			111111111111		100.0	Delay
			V/C	Delay				V/C	Delay		Increment
Intersection	Approach	Movement	Ratio	Sec/Veh	LOS	Approach	Movement	Ratio	Sec/Veh	LOS	Sec/Veh
Sixth Avenue @ 28th Street	EB	LT	1.31	381.6	F	EB	LT	1.36	400.9	F	19.3
Sixth Avenue @ 30th Street	EB	LT	1.28	318.7	F	EB	LT	1.39	365.6	F	46.9
Sixth Avenue @ 34th Street	NB	Т	1.28	251.1	F	NB	T	1.30	258.4	F	7.3
	SB	T	1.81	579.6	F	SB	Т	1.81	579.6	F	0.0
Sixth Avenue @ 36th Street	EB	L	1.01	128.0	F	EB	L	1.03	169.6	F	41.6
Seventh Avenue @ 29th Street	WB	LT	1.51	479.9	F	WB	LT	1.56	503.6	F	23.7
Seventh Avenue @ 30th Street	EB	T	1.25	372.4	F	EB	T	1.39	429.4	F	57.0
Seventh Avenue @ 31st Street	WB	R LT	0.75 1.21	206.4 332.1	F	WB	R LT	0.79 1.25	228.8 348.4	F	22.4 16.3
Seventii Avenue @ 31st Street	WB	LT	1.14	522.1	F	WB	LT	1.16	526.3	F	4.2
Seventh Avenue @ 33rd Street	SB	TR	1.14	95.3	F	SB	TR	1.10	107.4	F	12.1
Seventh Avenue @ 35th Street	WB	LT	1.38	474.4	F	WB	LT	1.47	514.9	F	40.5
Seventh Avenue @ 36th Street	EB	TR	1.26	415.8	F	EB	TR	1.32	436.8	F	21.0
Eighth Avenue @ 29th Street	WB	TR	1.80	625.3	F	WB	TR	1.85	642.9	F	17.6
Eighth Avenue @ 30th Street	EB	LT	1.31	399.6	F	EB	LT	1.37	415.8	F	16.2
-	WB	TR	1.09	323.4	F	WB	TR	1.11	328.8	F	5.4
Eighth Avenue @ 31st Street	NB	LT	1.09	120.7	F	NB	LT	1.10	121.8	F	1.1
Eighth Avenue @ 33rd Street	NB	LT	1.26	212.8	F	NB	LT	1.28	219.5	F	6.7
Eighth Avenue @ 34th Street	NB	LTR	1.12	147.9	F	NB	LTR	1.12	150.7	F	2.8
Eighth Avenue @ 35th Street	WB	TR	1.69	639.1	F	WB	TR	1.77	673.7	F	34.6
Eighth Avenue @ 36th Street	EB	LT	1.43	509.3	F	EB	LT	1.52	549.9	F	40.6
Eighth Avenue @ 37th Street	WB	TR	0.95	47.3	D	WB	TR	0.98	52.1	D	4.8
Eighth Avenue @ 38th Street	NB	TR	1.01	81.6	F	NB	TR	1.03	97.7	F	16.1
Ninth Avenue @ 28th Street	EB	TR	0.94	53.6	D	EB	TR	1.02	143.4	F	89.8
	EB	TR	1.00	395.1	F	EB	TR	1.11	429.8	F	34.7
Ninth Avenue @ 30th Street	SB	L	2.35	756.6	F	SB	L	2.37	767.4	F	10.8
Ninth Avenue @ 31st Street	WB	LTR	1.47	509.3	F	WB	LTR	1.49	519.3	F	10.0
Ninth Avenue @ 33rd Street	WB	LT	1.75	633.6	F	WB	LT	1.83	665.2	F	31.6
Time of cord crock	EB	R	1.97	727.2	F	EB	R	2.04	753.1	F	25.9
Ninth Avenue @ 34th Street	WB	LT	1.08	330.0	F	WB	LT	1.11	343.1	F	13.1
Timini Ti Gingo & Ginin Gingot	SB	LTR	1.36	262.4	F	SB	LTR	1.38	271.3	F	8.9
Ninth Avenue @ 35th Street	WB	LT	1.59	604.5	F	WB	LT	1.67	632.3	F	27.8
	EB	TR	1.17	200.2	F	EB	TR	1.26	238.3	F	38.1
Ninth Avenue @ 36th Street	SB	LT	1.01	79.8	Е	SB	LT	1.02	82.9	F	3.1
111 11 1 C C C C C C C C C C C C C C C	WB	LT	1.17	463.9	F	WB	LT	1.19	470.1	F	6.2
Ninth Avenue @ 37th Street	SB	TR (LnT)	1.21	253.4	F	SB	TR (LnT)	1.21	253.4	F	0.0
Ninth Avenue @ 38th Street	SB	T (LnT)	1.16	238.7	F	SB	T (LnT)	1.16	238.7	F	0.0
	WB	DefL	1.38	802.7	F	WB	DefL	1.42	833.3	F	30.6
Ninth Avenue @ 42nd Street	SB	LTR	1.17	168.9	F	SB	LTR	1.18	173.9	F	5.0
Tenth Avenue @ 26th Street	EB	LT	1.20	433.6	F	EB	LT	1.25	448.7	F	15.1
Tenth Avenue @ 28th Street	EB	LT	1.04	225.7	F	EB	LT	1.13	394.8	F	169.1
Tenth Avenue @ 29th Street	WB	TR	1.17	435.8	F	WB	TR	1.24	455.3	F	19.5
Tenth Avenue @ 30th Street	EB	LT	2.90	1149.0	F	EB	LT	3.45	1399.0	F	250.0
Tenth Avenue @ 30th Street	NB	R	1.31	271.8	F	NB	R	1.34	285.9	F	14.1
Tenth Avenue @ 31st Street	WB	R	2.39	857.9	F	WB	R	2.59	958.3	F	100.4
Tenth Avenue @ 33rd Street	WB	TR	0.91	44.4	D	WB	TR	0.98	56.4	Е	12.0
Tentil Avenue @ 3310 Street	NB	LT	1.06	150.3	F	NB	LT	1.12	170.7	F	20.4
	EB	DefL	1.00	101.2	F	EB	DefL	1.25	934.2	F	833.0
Tenth Avenue @ 34th Street	WB	R	2.30	874.8	F	WB	R	2.34	897.4	F	22.6
	NB	LTR	1.35	219.2	F	NB	LTR	1.40	241.9	F	22.7
Tenth Avenue @ 35th Street	WB	TR	1.04	227.2	F	WB	TR	1.16	274.7	F	47.5
Tenth Avenue @ 36th Street	NB	TR	1.31	208.7	F	NB	TR	1.38	241.8	F	33.1
Tenth Avenue @ 37th Street	NB	LT	1.67	375.4	F	NB	LT	1.72	398.7	F	23.3
Tenth Avenue @ 38th Street	NB	TR	1.72	395.9	F	NB	TR	1.77	419.9	F	24.0

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¹ This table has been revised for the FEIS.

Table 17-25C (cont'd) 2019 Future with the Proposed Actions: Weekday PM Peak Hour Intersection Approach Movements Operating at LOS Mid-D, E, or F

	2019 Future Without the Proposed Action 2019 Future With the Proposed Action									, 2, 01 1	
	20131	diale williout	tile Flop	Joseu Actio	i i		2019 Future	y vitti tile	Froposeu	Action	Delay
Intersection	Approach	Movement	V/C Ratio	Delay Sec/Veh	LOS	Approach	Movement	V/C Ratio	Delay Sec/Veh	LOS	Increment Sec/Veh
	WB	T	2.00	1497.0	Е	WB	T	2.14	1560.0	F	63.0
Tenth Avenue @ 39th Street	WB	R	1.82	1059.0	F	WD	R	1.83	1064.0	F	5.0
	NB	LT	1.65	400.2	F	NB	LT	1.69	420.3	F	20.1
Tenth Avenue @ 40th Street	EB	LT	0.44	64.0	Е	EB	LT	0.44	64.3	E	0.3
Tenti / Wende & 40th Offeet	NB	TR	1.65	393.8	F	NB	TR	1.69	412.8	F	19.0
-	WB	T	1.25	510.0	_	WB	T	1.25	510.0	F	0.0
Tenth Avenue @ 41st Street	NB	L	1.55	469.6	F	NB	L	1.55	469.6	F	0.0
	NB EB	T LT	1.04 1.88	106.2 647.7	F	NB EB	T LT	1.07 1.89	115.6 650.8	F	9.4 3.1
Tenth Avenue @ 42nd Street	WB	T (LnT)	1.00	804.6	F	WB	T (LnT)	1.28	793.6	F	-11.0
Tenth Avenue @ 57st Street	EB	LT	0.96	52.6	D	EB	LT	0.97	54.4	D	1.8
		T	0.78	62.3	E		T	0.79	62.6	E	0.3
Eleventh Avenue / Twelfth Ave	SB (11th)	TR	0.65	63.4	Ē	SB (11th)	TR	0.70	66.1	E	2.7
@ 22nd Street	NB (12th)	T	1.16	149.4	F	NB (12th)	T	1.18	154.4	F	5.0
Eleventh Avenue @ 24th Street	SB	TR	1.33	251.0	F	SB	TR	1.39	276.2	F	25.2
Eleventh Avenue @ 26th Street	EB	TR	1.12	405.6	F	EB	TR	1.12	405.6	F	0.0
Eleventh Avenue @ 29th Street	WB	LT	1.02	138.4	F	WB	LT	1.11	299.5	F	161.1
Eleventh Avenue @ 30th Street	EB	TR	0.98	59.5	Е	EB	TR	1.15	325.3	F	265.8
Lievenin Avenue @ 30th Street	SB	LT	1.05	117.8	F	SB	LT	1.23	194.2	F	76.4
Eleventh Avenue @ 33rd Street	WB	L	0.63	38.7	D	WB	L	0.92	77.4	Е	38.7
Lieveriiii Averiue @ 33iu 3ii eet		LT	0.73	35.9	D		LT	1.06	170.2	F	134.3
Eleventh Avenue @ 34th Street	WB	TR	0.90	50.7	D	WB	TR	0.97	63.3	Е	12.6
Eleventh Avenue @ 37th Street	WB	L	0.77	54.8	D	WB	L	0.88	68.3	Е	13.5
Eleventh Avenue @ 38th Street	NB	TR	1.31	523.6	F	NB	TR	1.42	578.0	F	54.4
Eleventh Avenue @ 39th Street	NB	T	1.08	448.4	F	NB	T	1.09	448.0	F	-0.4
	EB	TR	0.94	75.5	E	EB	TR	1.01	131.9	F	56.4
Eleventh Avenue @ 40th Street	NB	R	1.07	255.8	F	NB	R	1.09	260.0	F	4.2
Floventh Avenue @ 41st Street	SB SB	L T (LpT)	1.00	130.0	F	SB	L T (LnT)	1.00	130.5	F	0.5
Eleventh Avenue @ 41st Street	WB	T (LnT)	1.16 0.43	172.9 235.2	F	SB WB	T (LnT) L	1.16 0.41	172.9 227.7	F	0.0 -7.5
	WB	LT	0.43	103.7	F	WB	LT	0.53	109.7	F	6.0
Eleventh Avenue @ 42nd Street		R	0.92	78.7	Ē		R	0.92	78.7	E	0.0
	SB	LT (LnT)	1.31	271.1	F	SB	LT (LnT)	1.31	271.1	F	0.0
<u></u>	WB	LT	0.81	44.2	D	WB	LT	0.83	46.2	D	2.0
Eleventh Avenue @ 43rd Street	SB	T (LnT)	1.26	259.3	F	SB	T (LnT)	1.25	254.1	F	-5.2
	EB	LTR	1.13	503.4	F	EB	LTR	1.15	508.8	F	5.4
Eleventh Avenue @ 44th Street	SB	T	1.26	170.0	F	SB	T	1.32	194.7	F	24.7
	SB	T (LnT)	1.26	260.4	F	SB	T (LnT)	1.26	260.4	F	0.0
Eleventh Avenue @ 47th Street	WB	LTR	0.93	55.8	Е	WB	LTR	0.96	61.1	Е	5.3
2.010.11.11.11.01.00	SB	TR	1.04	82.0	F	SB	TR	1.07	89.5	F	7.5
Eleventh Avenue @ 54th Street	EB	LTR	0.89	63.0	E	EB	LTR	0.92	67.5	E	4.5
	NB ED	L	1.50	549.8	F	NB ED	L	1.54	576.2	F	26.4
	EB W/B	TR	1.24	492.3	F	EB W/B	TR	1.26	499.2	F	6.9
Eleventh Avenue @ 57th Street	WB NB	L	0.72 1.15	44.9 351.8	D F	WB NB	L	0.73 1.15	45.8 441.8	D F	0.9 90.0
Lieveniii Avenue & 57tii Stieet		L	1.15	506.6	F		L	1.70	533.0	F	26.4
	SB	TR	1.13	95.3	F	SB	TR	1.14	100.0	F	4.7
		L	0.67	71.0	E		L	0.68	71.8	E	0.8
	WB	LTR	0.66	71.0	E	WB	LTR	0.67	71.6	E	0.6
Twelfth Avenue @ 24th Street		R	0.69	72.9	E		R	0.69	72.9	E	0.0
	NB	TR	1.13	134.2	F	NB	TR	1.14	139.0	F	4.8
	SB	L	0.76	103.1	F	SB	L	0.76	103.1	F	0.0
Twelfth Avenue @ 29th Street	WB	LR	2.01	1029.0	F	WB	LR	2.42	1209.0	F	180.0
Twelfth Avenue @ 30th Street	SB	L	1.39	446.8	F	SB	L	1.67	566.4	F	119.6
		L	0.47	59.4	E		L	0.47	59.5	Е	0.1
Twelfth Avenue @ 34th Street	WB	LR	0.45	58.6	Е	WB	LR	0.50	60.3	Е	1.7
1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1		R	0.59	49.6	D	0-	R	0.60	49.9	D	0.3
	SB	L	1.13	635.7	F	SB	L	1.16	751.6	F	115.9
Twelfth Avenue @ Pier 79 Ferry	EB	LR	0.26	60.7	E	EB	LR	0.25	60.6	E	-0.1
Terminal		R	0.25	62.0	E		R	0.26	62.3	E	0.3
	NB	L	0.30	72.6	E	NB	L	0.30	72.6	Е	0.0

Table 17-25C (cont'd) 2019 Future with the Proposed Actions: Weekday PM Peak Hour Intersection Approach Movements Operating at LOS Mid-D, E, or F

	2019 F	uture Without					2019 Future				, ,
Intersection	Approach	Movement	V/C Ratio	Delay Sec/Veh	LOS	Approach	Movement	V/C Ratio	Delay Sec/Veh	LOS	Delay Increment Sec/Veh
	EB	LR	0.06	47.3	D	EB	LR	0.06	47.3	D	0.0
	WB	L	0.08	60.0	E	WB	L	0.08	60.0	Е	0.0
Twelfth Avenue @ 41st Street		R	0.47	67.8	E		R	0.47	67.8	E	0.0
	NB	T	1.02	81.2	F	NB	T	1.06	92.3	F	11.1
	SB	T . ==	1.06	77.8	E	SB	T	1.08	82.9	F	5.1
	EB	LTR	80.0	46.7	D	EB	LTR	0.08	46.7	D	0.0
T	WB	R	0.66	65.3 66.0	E	WB	L R	0.66	65.6 67.4	E	0.3 1.4
Twelfth Avenue @ 42nd Street	NB	T	0.85	30.7		NB	K	0.86	77.1	E	1.4 46.4
	SB		1.34	434.1	C F	SB		1.01	434.1	F	0.0
	WB	LTR	1.00	108.4	F	WB	LTR	1.01	149.5	F	41.1
Twelfth Avenue @ 43th Street	NB	L	0.16	68.0	E	NB	LIK	0.16	68.0	E	0.0
Twelfth Avenue @ 44th Street	SB	L	1.02	189.3	F	SB	L	1.03	227.0	F	37.7
TWOITHT/WORLD & 4-HIT OLICET	EB	LTR	0.17	51.9	D	EB	LTR	0.17	51.9	D	0.0
Twelfth Avenue@ 46th Street	NB	TR	1.14	166.6	F	NB	TR	1.16	179.3	F	12.7
Themat / themates four Careet	SB	L	0.64	86.1	F	SB	L	0.64	86.1	F	0.0
	WB	R	0.81	82.0	F	WB	R	0.81	82.0	F	0.0
Twelfth Avenue @ 54th Street	NB	TR	1.24	192.7	F	NB	TR	1.26	202.4	F	9.7
	SB	L	0.52	60.4	Е	SB	L	0.53	60.7	Е	0.3
T	NB	Т	1.24	165.7	F	NB	T	1.26	174.5	F	8.8
Twelfth Avenue @ 56th Street	SB	L	1.12	391.4	F	SB	L	1.12	391.4	F	0.0
Twelfth Avenue @ 57th Street	WB	R	0.64	239.4	F	WB	R	0.64	239.4	F	0.0
Broadway @ 35th Street	WB	Т	1.51	286.1	F	WB	T	1.59	321.5	F	35.4
Broadway @ 36th Street	EB	TR	0.95	42.1	D	EB	TR	0.99	51.4	D	9.3
	WB	LTR	0.86	52.5	D	WB	LTR	0.88	59.0	E	6.5
Dyer Ave @ 31st Street	NB	LT	0.82	44.4	D	NB	LT	0.83	45.5	D	1.1
	SB	TR	0.91	50.3	D	SB	TR	0.91	50.3	D	0.0
	WB	R	2.76	1350.0	F	WB	R	2.78	1359.0	F	9.0
Dyer Ave @ 34th Street		L	0.79	59.2	E		L	0.81	61.6	E	2.4
,	SB	LR	0.80	61.0	E	SB	LR	0.82	63.7	E	2.7
D A @ 05# 0/	NA/D	R	0.80	63.6	E	N/D	R	0.81	64.8	E	1.2
Dyer Ave @ 35th Street	WB	LTR	0.76	196.7	F	WB	LTR	0.82	216.1	F	19.4
Dyer Ave @ 36th Street	EB	TR	0.92	159.4	E	EB	LTR	1.05	223.5	F	64.1
Dyer Avenue @ 41st Street	NB WB	TR TR	1.68	559.7 495.5	F	NB WB	TR TR	1.69 1.32	562.7 495.5	F	3.0 0.0
Dyer Avenue @ 42nd Street	WB	T (LnT)	1.57	1378.0	F	WB	T (LnT)	1.57	1378.0	F	0.0
Dyei Avenue @ 42nu Street	WD	I (LIII)		ignalized li			I (LIII)	1.57	1370.0	Г	0.0
	2018 F	uture Without				LIUIIS	2018 Future	With the	Proposed	Action	
Intersection	Approach	Movement	V/C Ratio	Delay Sec/Veh	LOS	Approach	Movement	V/C Ratio	Delay Sec/Veh	LOS	Delay Increment Sec/Veh
Twelfth Ave @ 33rd Street	WB	R	0.91	61.7	F	WB	R	1.60	311.1	F	249.4
Twelfth Ave @ 47th Street	WB	R	1.87	456.6	F	WB	R	2.09	559.5	F	102.9

Shading denotes approach movement subject to significant adverse impact. No shading denotes movement with 45.0 or more seconds of delay, but not subject to significant adverse impact

Delay calculated at greater than 300 seconds is considered unreliable, though the congestion at this level is considered an impact.

Negative delay increments are attributable to rounding, changes in heavy vehicle percentages, shared lane percentages, or pedestrian volumes

LOS = Level of Service

LOS = Level of Service
EB - Eastbound, WB - Westbound, NB - Northbound, SB - Southbound
L - Left, T- Through, R - Right, DefL - De Facto Left Turn
(LnT) - Lincoln Tunnel approach lane(s)

Table 17-25D 2019 Future with the Proposed Actions: Saturday Midday Peak Hour Intersection Approach Movements Operating at LOS Mid-D, E, or F¹

		Future Withou		2019 Future							
Intersection	Approach	Movement	V/C Ratio	Delay Sec/Veh	LOS	Approach	Movement	V/C Ratio	Delay Sec/Veh	LOS	Delay Increment Sec/Veh
Sixth Avenue @ 28th Street	EB	LT	1.07	281.3	F	EB	LT	1.09	288.7	F	7.4
Civith Avenue @ 20th Ctreet	EB	LT	0.65	63.0	Е	EB	LT	0.72	76.3	Е	13.3
Sixth Avenue @ 30th Street	NB	TR	1.01	84.2	F	NB	TR	1.01	85.5	F	1.3
	EB	Т	0.60	49.8	D	EB	Т	0.62	53.5	D	3.7
Sixth Avenue @ 34th Street	NB	Т	1.29	251.1	F	NB	Т	1.30	257.6	F	6.5
	SB	Т	1.36	384.1	F	SB	Т	1.36	384.1	F	0.0
Sixth Avenue @ 36th Street	EB	L	1.15	228.1	F	EB	L	1.15	228.1	F	0.0
Seventh Avenue @ 28th Street	EB	TR	0.86	298.8	F	EB	TR	0.90	316.4	F	17.6
Seventh Avenue @ 29th Street	WB	LT	1.04	219.9	F	WB	LT	1.09	299.0	F	79.1
Seventh Avenue @ 31st Street	WB	LT	1.33	373.4	F	WB	LT	1.37	388.2	F	14.8
Seventh Avenue @ 33rd Street	WB	LT	1.13	459.6	F	WB	LT	1.15	465.8	F	6.2
Seventh Avenue @ 34th Street	EB	TR	0.45	74.8	Е	EB	TR	0.47	77.7	Е	2.9
Seventh Avenue @ 35th Street	WB	LT	0.89	47.8	D	WB	LT	0.96	61.1	Е	13.3
Seventh Avenue @ 36th Street	EB	TR	1.18	407.1	F	EB	TR	1.21	418.0	F	10.9
Seventh Avenue @ 37th Street	WB	LT	0.87	183.4	F	WB	LT	0.89	194.7	F	11.3
Seventh Avenue @ 38th Street	EB	TR	0.95	269.4	F	EB	TR	0.97	282.2	F	12.8
Eighth Avenue @ 29th Street	WB	TR	1.21	349.9	F	WB	TR	1.26	370.8	F	20.9
Eighth Avenue @ 30th Street	EB	LT	1.02	131.5	F	EB	LT	1.08	303.0	F	171.5
Eighth Avenue @ 31st Street	WB	TR	1.08	337.9	F	WB	TR	1.10	341.9	F	4.0
Eighth Avenue @ 33rd Street	NB	LT	1.06	124.3	F	NB	LT	1.07	130.2	F	5.9
Eighth Avenue @ 34th Street	NB	LTR	1.04	116.9	F	NB	LTR	1.04	118.6	F	1.7
Eighth Avenue @ 35th Street	WB	TR	1.44	549.5	F	WB	TR	1.51	572.8	F	23.3
Eighth Avenue @ 36th Street	EB	LT	1.09	368.3	F	EB	LT	1.13	383.3	F	15.0
Eighth Avenue @ 37th Street	WB	TR	0.96	49.3	D	WB	TR	0.99	53.9	D	4.6
Eighth Avenue @ 38th Street	NB	TR	0.94	49.2	D	NB	TR	0.94	52.5	D	3.3
	EB	TR	0.87	46.5	D	EB	TR	0.87	47.2	D	0.7
Ninth Avenue @ 23rd Street	SB	TR	1.06	116.2	F	SB	TR	1.07	118.6	F	2.4
Ninth Avenue @ 26th Street	SB	T	1.00	42.5	D	SB	T	1.01	84.7	F	42.2
Ninth Avenue @ 28th Street	EB	TR	0.90	47.5	D	EB	TR	0.96	57.4	E	9.9
Ninth Avenue @ 29th Street	SB	TR	1.01	82.7	F	SB	TR	1.02	90.8	F	8.1
	EB	TR	0.88	41.2	D	EB	TR	0.95	50.4	D	9.2
Ninth Avenue @ 30th Street	SB	L	1.86	538.2	F	SB	L	1.87	543.4	F	5.2
Ninth Avenue @ 31st Street	WB	LTR	1.03	175.9	F	WB	LTR	1.05	256.2	F	80.3
Ninth Avenue @ 33rd Street	WB	LT	1.32	473.1	F	WB	LT	1.43	513.0	F	39.9
Ninth Avenue @ 34th Street	EB	TR	0.90	44.5	D	EB	TR	0.93	49.1	D	4.6
Ninth Avenue @ 35th Street	WB	LT	1.04	230.4	F	WB	LT	1.12	368.2	F	137.8
Ninth Avenue @ 36th Street	EB	TR	1.06	165.0	F	EB	TR	1.09	174.7	F	9.7
Ninth Avenue @ 37th Street	WB	LT	0.92	48.3	D	WB	LT	0.95	53.2	D	4.9
Ninth Avenue @ 42nd Street	WB	DefL	1.05	294.7	F	WB	DefL	1.06	319.8	F	25.1
Tenth Avenue @ 26th Street	EB	LT	0.89	50.6	D	EB	LT	0.93	57.6	E	7.0
Tenth Avenue @ 28th Street	EB	LT	1.43	534.8	F	EB	LT	1.50	562.1	F	27.3
	EB	LT	1.70	608.4	F	EB	LT	2.17	822.4	F	214.0
Tenth Avenue @ 30th Street	NB	R	1.25	245.1	F	NB	R	1.24	241.3	F	-3.8
Tenth Avenue @ 31st Street	WB	R	1.28	369.6	F	WB	R	1.36	403.5	F	33.9
Tenth Avenue @ 34th Street	EB	DefL	0.83	59.6	E	EB	DefL	0.91	74.6	E	15.0
Tenth Avenue @ 35th Street	WB	TR	1.05	253.9	F	WB	TR	1.16	287.7	F	33.8
	EB	LT	2.04	797.7	F	EB	LT	2.07	812.9	F	15.2
Tenth Avenue @ 42nd Street	WB	TR	1.47	458.5	F	WB	TR	1.48	460.0	F	1.5
Tenth Avenue @ 43rd Street	NB	LT	1.02	86.0	F	NB	LT	1.05	98.3	F	12.3
Tenth Avenue @ 56th Street	EB	LT	0.95	61.1	Ē	EB	LT	0.95	61.1	Ē	0.0
Tenth Avenue @ 57st Street	EB	LT	0.92	48.7	D	EB	LT	0.93	49.2	D	0.5
Eleventh Avenue / Twelfth Ave @ 22nd Street		T	1.13	141.5	F	NB (12th)	T	1.14	145.3	F	3.8
Eleventh Avenue @ 30th Street	EB	TR	0.93	48.1	D	EB	TR	1.12	312.7	F	264.6
	WB	L	0.59	40.6	D	WB	L	0.69	46.4	D	5.8
Eleventh Avenue @ 37th Street	WB	R	0.66	45.7	D	WB	R	0.66	45.7	D	0.0
	1 440	1.	0.00	70.1	ر ر	I 44D	13	0.00	70.1	ט	0.0

¹ This table has been revised for the FEIS.

Table 17-25D (cont'd) 2019 Future with the Proposed Actions: Saturday Midday Peak Hour Intersection Approach Movements Operating at LOS Mid-D, E, or F

Delay Intersection		2019	Future Withou	it the Pro		n		2019 Future					
Eleventh Avenue @ 44th Street EB	Intersection	Approach	Movement			LOS	Approach	Movement			LOS	Increment	
Eleventh Avenue @ 47th Street WB	Eleventh Avenue @ 42nd Street	EB	TR	0.91	46.0	D	EB	TR	0.92	46.9	D	0.9	
Eleventh Avenue @ 54th Street	Eleventh Avenue @ 44th Street	EB	LTR	0.81	44.2	D	EB	LTR	0.82	45.2	D	1.0	
EB	Eleventh Avenue @ 47th Street	WB	LTR	0.89	51.4	D	WB	LTR	0.91	54.5	D	3.1	
WB	Eleventh Avenue @ 54th Street	NB	L	0.83	51.6	D	NB	L	0.85	55.2	Е	3.6	
Eleventh Avenue @ 57th Street WB		EB	TR	0.90	58.4	Е	EB	TR	0.91	58.9	Е	0.5	
NB		WB	L	1.22	569.2	F	WB	L	1.22	572.5	F	3.3	
SB	Eleventh Avenue @ 57th Street	WB	TR	1.69	662.0	F	WB	TR	1.69	662.0	F	0.0	
Twelfth Avenue @ 24th Street WB		NB	L	1.27	210.0	F	NB	L	1.32	228.0	F	18.0	
Twelfth Avenue @ 24th Street NB		SB	L	0.89	62.1	Е	SB	L	0.90	66.1	Е	4.0	
R			L	0.50	46.8	D		L	0.53	47.8	D	1.0	
NB		WB	LTR	0.53	48.0	D	WB	LTR	0.51	47.3	D	-0.7	
SB	Twelfth Avenue @ 24th Street		R	0.50	47.9	D		R	0.50	47.9	D	0.0	
Twelfth Avenue @ 29th Street		NB	TR	1.11	129.5	F	NB	TR	1.12	133.1	F	3.6	
Twelfth Avenue @ 30th Street		SB	L	1.09	489.0	F	SB	L	1.09	489.0	F	0.0	
Twelfth Avenue @ 34th Street	Twelfth Avenue @ 29th Street		LR	1.37	673.5	F	WB	LR	1.68	807.0	F	133.5	
Twelfth Avenue @ Pier 79 Ferry Terminal SB TR 1.17 153.5 F SB TR 1.18 158.5 F 5.0 SB Twelfth Avenue @ 41st Street SB L 0.76 52.5 D SB L 0.76 52.5 D SB L 0.76 52.5 D 0.0 Twelfth Avenue @ 43rd Street SB L 0.10 52.3 D NB L 0.10 52.3 D 0.0 SB T 1.04 85.5 F 2.6 Twelfth Avenue @ 44th Street SB L 0.94 79.0 E SB L 0.95 80.0 F 1.0 Twelfth Avenue @ 46th Street SB L 0.84 97.2 F SB L 0.84 97.2 F SB L 0.84 97.2 F SB L 0.86 62.0 E SB L 0.86 62.0 E SB L 0.86 62.0 E SB T 1.15 134.5 F WB T 1.22 164.7 F 30.2 Unsignalized Intersections Twelfth Ave @ 33rd Street WB R 0.42 18.2 C WB R 1.08 118.4 F 100.2	Twelfth Avenue @ 30th Street	SB	L	1.20	342.7	F	SB	L	1.38	414.2	F	71.5	
Terminal SB TR 1.17 153.5 F SB TR 1.18 158.5 F 5.0 Twelfth Avenue @ 41st Street SB T 1.14 117.9 F SB T 1.15 122.2 F 4.3 Twelfth Avenue @ 42nd Street SB L 0.76 52.5 D SB L 0.76 52.5 D 0.0 Twelfth Avenue @ 43rd Street NB L 0.76 52.3 D NB LTR 0.69 49.5 D 0.1 Twelfth Avenue @ 43rd Street SB L 0.94 79.0 E SB L 0.95 80.0 F 1.0 Twelfth Avenue @ 46th Street SB L 0.84 97.2 F SB L 0.84 97.2 F SB L 0.84 97.2 F 0.0 Twelfth Avenue @ 54th Street SB L 0.86 62.0 E SB L 0.86 62.0 E Draduard Intersections Twelfth Ave @ 33rd Street WB R 0.42 18.2 C WB R 1.08 118.4 F 100.2	Twelfth Avenue @ 34th Street	SB	L	0.87	74.1	Е	SB	L	0.89	76.6	Е	2.5	
Twelfth Avenue @ 41st Street	Twelfth Avenue @Pier 79 Ferry	NB	L	0.26	51.6	D	NB	L	0.26	51.6	D	0.0	
Twelfth Avenue @ 41st Street	Terminal		TR	1.17	153.5		SB	TR	1.18		-	5.0	
Twelfth Avenue @ 42nd Street	Twolfth Avenue @ 41st Street		T	1.06	120.3	F	NB	T	1.08	127.9	F	7.6	
SB	Twellin Avenue @ 41st Street		T	1.14	117.9	F	SB	T	1.15	122.2	F		
SB	Twolfth Avanua @ 42nd Stroot		T	1.19	167.8	F	NB	T	1.21	176.4	F	8.6	
Twelfth Avenue @ 43rd Street NB L 0.10 52.3 D NB L 0.10 52.3 D 0.0 SB T 1.03 82.9 F SB T 1.04 85.5 F 2.6 Twelfth Avenue @ 44th Street SB L 0.94 79.0 E SB L 0.95 80.0 F 1.0 Twelfth Avenue @ 46th Street NB TR 1.11 166.2 F NB TR 1.13 172.1 F 5.9 Twelfth Avenue @ 54th Street WB R 0.52 45.7 D WB R 0.52 45.7 D 0.0 Twelfth Avenue @ 56th Street SB L 0.86 62.0 E SB L 0.86 <t< td=""><td>I Welltii Aveilue @ 42ilu Street</td><td></td><td>L</td><td>0.76</td><td>52.5</td><td>D</td><td></td><td>L</td><td>0.76</td><td>52.5</td><td>D</td><td>0.0</td></t<>	I Welltii Aveilue @ 42ilu Street		L	0.76	52.5	D		L	0.76	52.5	D	0.0	
SB T 1.03 82.9 F SB T 1.04 85.5 F 2.6		WB	LTR	0.69		D	WB	LTR	0.69	49.5	D	0.1	
Twelfth Avenue @ 44th Street SB L 0.94 79.0 E SB L 0.95 80.0 F 1.0 Twelfth Avenue @ 46th Street NB TR 1.11 166.2 F NB TR 1.13 172.1 F 5.9 SB L 0.84 97.2 F SB L 0.84 97.2 F 0.0 Twelfth Avenue @ 54th Street WB R 0.52 45.7 D WB R 0.52 45.7 D 0.0 Twelfth Avenue @ 56th Street SB L 0.86 62.0 E SB L 0.86 62.0 E 0.0 Broadway @ 35th Street WB T 1.15 134.5 F WB T 1.22 164.7 F 30.2 Unsignalized Intersections Twelfth Ave @ 33rd Street WB R 0.42 18.2 C WB R 1.08 118.4 F 100.2	Twelfth Avenue @ 43rd Street		L	0.10		_		L			_		
Twelfth Avenue@ 46th Street NB TR 1.11 166.2 F NB TR 1.13 172.1 F 5.9 Twelfth Avenue@ 54th Street SB L 0.84 97.2 F SB L 0.84 97.2 F 0.0 Twelfth Avenue@ 54th Street WB R 0.52 45.7 D WB R 0.52 45.7 D 0.0 Twelfth Avenue@ 56th Street SB L 0.86 62.0 E SB L 0.86 62.0 E 0.0 Broadway@ 35th Street WB T 1.15 134.5 F WB T 1.22 164.7 F 30.2 Unsignalized Intersections Twelfth Ave@ 33rd Street WB R 0.42 18.2 C WB R 1.08 118.4 F 100.2			T	1.03	82.9	F	SB	Т	1.04	85.5	F	2.6	
Twelfth Avenue @ 46th Street SB L 0.84 97.2 F SB L 0.84 97.2 F 0.0 Twelfth Avenue @ 54th Street WB R 0.52 45.7 D WB R 0.52 45.7 D 0.0 Twelfth Avenue @ 56th Street SB L 0.86 62.0 E SB L 0.86 62.0 E 0.0 Broadway @ 35th Street WB T 1.15 134.5 F WB T 1.22 164.7 F 30.2 Unsignalized Intersections Twelfth Ave @ 33rd Street WB R 0.42 18.2 C WB R 1.08 118.4 F 100.2	Twelfth Avenue @ 44th Street		L	0.94			SB	L	0.95	80.0			
SB	Twolfth Avanua@ 46th Stroot		TR	1.11	166.2	F	NB	TR	1.13	172.1	F	5.9	
Twelfth Avenue @ 56th Street SB L 0.86 62.0 E SB L 0.86 62.0 E 0.0 Broadway @ 35th Street WB T 1.15 134.5 F WB T 1.22 164.7 F 30.2 Unsignalized Intersections Twelfth Ave @ 33rd Street WB R 0.42 18.2 C WB R 1.08 118.4 F 100.2	Twellin Avenue 40th Street		L	0.84	97.2	F		L			F		
Broadway @ 35th Street WB T 1.15 134.5 F WB T 1.22 164.7 F 30.2 Unsignalized Intersections Twelfth Ave @ 33rd Street WB R 0.42 18.2 C WB R 1.08 118.4 F 100.2								R					
Unsignalized Intersections Twelfth Ave @ 33rd Street WB R 0.42 18.2 C WB R 1.08 118.4 F 100.2		_						L					
Twelfth Ave @ 33rd Street WB R 0.42 18.2 C WB R 1.08 118.4 F 100.2	Broadway @ 35th Street	WB	T	_				T	1.22	164.7	F	30.2	
	Unsignalized Intersections												
Twelfth Ave @ 47th Street WB R 0.98 104.5 F WB R 1.03 121 F 16.5				0.42									
	Twelfth Ave @ 47th Street	WB	R	0.98	104.5	F	WB	R	1.03	121	F	16.5	

Shading denotes approach movement subject to significant adverse impact. No shading denotes movement with 45.0 or more seconds of delay, but not subject

Delay calculated at greater than 300 seconds is considered unreliable, though the congestion at this level is considered an impact.

Negative delay increments are attributable to rounding, changes in heavy vehicle percentages, shared lane percentages, or pedestrian volumes LOS = Level of Service

EB - Eastbound, WB - Westbound, NB - Northbound, SB - Southbound

L - Left, T- Through, R - Right, DefL - De Facto Left Turn (LnT) - Lincoln Tunnel approach lane(s)

Table 17-26A 2017 Future with the Proposed Actions: Weekday AM Peak Hour Intersection Approach Movements Operating at LOS Mid-D, E, or F¹

Intersection Approach Movement Ratio SacVish LOS Approach Movement Ratio SacVish LOS SacVish Sixth Avenue @ 30th Street EB		Intersection Approach Movements Operating at LOS Mid-D, E, or												
Intersection		2017 Fut	ture Without	the Prop	osed Actio	on	2	017 Future V	Vith the	Proposed	Actio	n		
Intersection												Delay		
Sixth Avenue @ 30th Street												Increment		
Sixth Avenue @ 30th Street	Intersection	Approach	Movement	Ratio	Sec/Veh	LOS	Approach	Movement	Ratio	Sec/Veh	LOS	Sec/Veh		
Sixth Avenue @ 34th Street	Sixth Avenue @ 28th Street		LT	1.21	340.7	F			1.23	345.9		5.2		
NB	Sixth Avenue @ 30th Street	EB	LT	1.40	377.7	F	EB	LT	1.44	395.1	F	17.4		
Sixth Avenue @ 35th Street WB	Sixtii Aveilue & Sotii Stieet	NB	TR	1.01	85.1	F	NB	TR	1.01	86.3	F	1.2		
Sixth Avenue @ 35th Street WB R 0.86 62.5 E WB R 0.84 58.8 E -3.7 Sixth Avenue @ 35th Street WB R 0.86 62.5 E WB R 0.84 58.8 E -3.7 Seventh Avenue @ 23th Street BB TR 0.95 326.3 F BB TR 0.93 46.6 D 0.6 Seventh Avenue @ 23th Street BB TR 0.95 326.3 F BB TR 0.97 34.17 F 15.4 Seventh Avenue @ 30th Street BB TR 0.95 326.3 F BB TR 0.97 34.17 F 15.4 Seventh Avenue @ 30th Street BB TR 0.95 326.3 F BB TR 0.97 34.17 F 15.4 Seventh Avenue @ 30th Street BB TR 0.95 326.3 F BB TR 0.97 34.17 F 15.4 Seventh Avenue @ 30th Street BB T 1.34 424.5 F BB T 1.38 437.6 F 13.1 Seventh Avenue @ 30th Street BB T 1.34 424.5 F BB T 1.38 437.6 F 13.1 Seventh Avenue @ 33th Street BB T 1.12 577.2 F WB LT 1.31 373.9 F 8.7 Seventh Avenue @ 34th Street BB T 1.10 68.5 E B T 1.13 116.0 F 7.6 Seventh Avenue @ 35th Street BB T 1.10 68.5 E B T 1.13 116.0 F 7.6 Seventh Avenue @ 35th Street BB T 1.12 431.7 F WB LT 1.26 437.1 F 45.6 Seventh Avenue @ 35th Street BB T 1.12 431.7 F WB LT 1.26 437.1 F 45.6 Seventh Avenue @ 35th Street BB T 1.10 68.5 E B T 1.10 68.5 E	Sixth Avanua @ 24th Stroot	NB	T	1.44	326.1	F	NB	T	1.45	331.1	F	5.0		
Susta Avenue @ 42nd Street	Sixili Aveilue @ 34til Street	SB	T	1.63	501.4	F	SB	Т	1.63	501.4	F	0.0		
Seventh Avenue @ 23rd Street EB TR 0.92 46.0 D EB TR 0.97 341.7 F 15.4	Sixth Avenue @ 35th Street	WB	TR	0.95	50.7	D	WB	TR	0.99	57.7	ш	7.0		
Seventh Avenue @ 28th Street BB TR 0.95 3263 F EB TR 0.97 341.7 F 15.4	Sixth Avenue @ 42nd Street	WB	R	0.86	62.5	Е	WB	R	0.84	58.8	Е	-3.7		
Seventh Avenue @ 39th Street	Seventh Avenue @ 23rd Street	EB	TR	0.92	46.0	D	EB	TR	0.93	46.6	Δ	0.6		
Seventh Avenue @ 30th Street	Seventh Avenue @ 28th Street	EB	TR	0.95	326.3	F	EB	TR	0.97	341.7	F	15.4		
Seventh Avenue @ 30th Street EB	Seventh Avenue @ 29th Street	WB	LT	1.28	381.7	F	WB	LT	1.30	391.4	F	9.7		
Seventh Avenue @ 31st Street WB	Soventh Avenue @ 20th Street	EB	Т	1.34	424.5	F	EB	T	1.38	437.6	F	13.1		
Seventh Avenue @ 33rd Street	Seventri Avenue @ 30th Street	EB	R	0.85	44.3	D	EB	R	0.86	45.8	D	1.5		
Seventh Avenue @ 34th Street	Seventh Avenue @ 31st Street	WB	LT	1.29	365.2	F	WB	LT	1.31	373.9	F	8.7		
Seventh Avenue @ 34th Street	Soventh Avenue @ 22rd Street	WB	LT	1.21	577.2	F	WB	LT	1.21	577.5	F	0.3		
Seventh Avenue @ 35th Street WB	Sevenin Avenue @ 3310 Street	SB	TR	1.11	108.4	F	SB	TR	1.13	116.0	F	7.6		
Seventh Avenue @ 35th Street WB	Seventh Avenue @ 34th Street	EB	Т			Е	EB	Т		1	F			
Seventh Avenue @ 35th Street Seventh Avenue @ 36th Street EB		WB	L					L			D			
Seventh Avenue @ 37th Street WB	Seventh Avenue @ 35th Street	WB	LT	1.25	419.1	F	WB	LT	1.36	464.7	F	45.6		
Seventh Avenue @ 37th Street WB	Seventh Avenue @ 36th Street										F			
Seventh Avenue @ 39th Street						D				1	D			
Eighth Avenue @ 29th Street WB TR 1.25 385.8 F WB TR 1.28 396.0 F 10.2 Eighth Avenue @ 30th Street NB LT 1.08 134.4 F NB LT 1.09 140.6 F 6.2 Eighth Avenue @ 34th Street NB LTR 1.10 145.1 F NB LTR 1.10 143.5 F -1.6 Eighth Avenue @ 35th Street WB TR 1.72 652.1 F NB LTR 1.10 143.5 F -1.6 6.2 Eighth Avenue @ 35th Street EB LT 1.04 338.0 F EB LT 1.04 338.0 F EB LT 1.06 344.3 F 6.3 Ninth Avenue @ 28th Street EB TR 1.21 386.6 F EB TR 1.21 346.6 F EB TR 1.24 399.6 F 13.0 Ninth Avenue @ 30th Street <td></td>														
Eighth Avenue @ 33rd Street NB LT 1.26 385.2 F EB LT 1.30 399.5 F 14.3 Eighth Avenue @ 33rd Street NB LT 1.08 134.4 F NB LT 1.09 140.6 F 6.2 Eighth Avenue @ 34th Street NB LTR 1.10 145.1 F NB LTR 1.10 145.1 F NB LTR 1.10 145.5 F -1.6 Eighth Avenue @ 35th Street WB TR 1.72 652.1 F WB TR 1.82 696.3 F 44.2 Eighth Avenue @ 36th Street EB LT 1.04 338.0 F EB LT 1.06 344.3 F 6.3 Ninth Avenue @ 36th Street EB LT 1.04 338.0 F EB LT 1.06 344.3 F 6.3 Ninth Avenue @ 28th Street EB TR 0.94 59.0 E EB TR 0.95 60.0 E 1.0 Ninth Avenue @ 28th Street EB TR 1.21 386.6 F EB TR 1.24 399.6 F 13.0 Ninth Avenue @ 29th Street SB TR 1.13 132.7 F SB TR 1.13 135.7 F 3.0 Ninth Avenue @ 30th Street SB TR 1.21 472.4 F EB TR 1.26 498.8 F 26.4 Ninth Avenue @ 30th Street SB LT 1.02 154.6 F WB LT 1.09 388.6 F 234.0 Ninth Avenue @ 34th Street WB LT 1.02 154.6 F WB LT 1.09 388.6 F 234.0 SB LTR 1.25 213.2 F SB LTR 1.28 223.8 F 10.6 Ninth Avenue @ 35th Street WB LT 1.59 604.0 F WB LT 1.09 177.2 F EB TR 1.13 123.5 F 10.6 Ninth Avenue @ 36th Street WB LT 1.59 604.0 F WB LT 1.10 651.9 F 47.9 Ninth Avenue @ 37th Street WB LT 0.95 F SB LTR 1.13 123.5 F 11.8 Ninth Avenue @ 37th Street WB LT 0.95 F SB LTR 1.13 123.5 F 11.8 Ninth Avenue @ 37th Street WB LT 0.95 F SB LTR 1.13 123.5 F 11.8 Ninth Avenue @ 37th Street WB LT 0.95 F SB LTR 1.13 123.5 F 11.8 Ninth Avenue @ 37th Street WB LT 0.95 F SB LTR 1.13 123.5 F 11.8 Ninth Avenue @ 37th Street WB LT 0.95 F SB LTR 1.10 143.9 F 3.8 T 1.1 111.7 F SB LTR 1.10 143.9 F 3.8 T 1.1 111.7 F SB LTR 1.10 143.9 F 3.8 T 1.1 11.1 111.7 F SB LTR 1.10 143.9 F 3.8 T 1.1 1.1 111.7 F SB LT 1.1 144.4 551.0 F 3.8 T 1.1 1.1 111.7 F SB LTR 1.1 1.1 111.7 F SB LTR 1.1 1.1 113.9 SF 1.3 T 1.1 11.1 111.7 F SB LTR 1.1 1.1 11.1 11.1 11.1 11.1 11.1 11.1										1	_			
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Eighth Avenue @ 34th Street NB										1	_			
Eighth Avenue @ 35th Street														
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Ninth Avenue @ 23rd Street EB										1				
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Ninth Avenue @ 30th Street SB	TAIRLET TO CHILD & 25th Otreet									1				
Ninth Avenue @ 33rd Street	Ninth Avenue @ 30th Street													
R	Ninth Avenue @ 33rd Street													
Ninth Avenue @ 34th Street R 2.00 759.2 F EB R 2.02 769.0 F 9.8	Nintil Avenue & 331d Street	WD					VVD							
Ninth Avenue @ 34th Street WB		EB					EB							
SB	Ninth Avenue @ 34th Street	\M/B					\\/P							
Ninth Avenue @ 35th Street WB											_			
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Ninth Avenue @ 36th Street SB	INITILIT AVEITUE @ 30th 3theet									1	_			
Ninth Avenue @ 37th Street WB	Ninth Avenue @ 36th Street									1				
Ninth Avenue @ 38th Street Ninth Avenue @ 42nd Street Ninth Avenue @ 42nd Street Ninth Avenue @ 42nd Street BB TR 1.19 479.0 F BB TR 1.21 484.4 F 5.4 NB DefL 1.11 535.4 F WB DefL 1.12 564.2 F 28.8 SB LTR 1.00 143.9 F 8.8 LTR 1.10 143.9 F 8.8 LTR Tenth Avenue @ 26th Street EB LT 1.10 407.0 F EB LT 1.11 1.13 414.3 F 7.3 Tenth Avenue @ 30th Street EB LT 1.40 534.2 F EB LT 1.44 551.0 F 16.8 BB LT 1.99 762.9 F EB LT 2.21 861.0 F 98.1 NB R 0.82 28.8 C NB R 0.96 51.7 D 22.9 Tenth Avenue @ 33rd Street WB R 1.25 344.0 F WB R 1.29 367.4 F 23.4 Tenth Avenue @ 34th Street BB DefL 0.78 57.7 D EB DefL 1.00 103.0 F 45.3 Tenth Avenue @ 35th Street WB TR 1.50 428.7 F WB TR 1.03 180.6 F WB TR 1.03 180.5 F -0.1	Ninth Avenue @ 27th Street													
Ninth Avenue @ 42nd Street WB DefL 1.11 535.4 F WB DefL 1.12 564.2 F 28.8 Tenth Avenue @ 26th Street EB LTR 1.08 135.1 F SB LTR 1.10 143.9 F 8.8 Tenth Avenue @ 26th Street EB LT 1.10 407.0 F EB LT 1.13 414.3 F 7.3 Tenth Avenue @ 28th Street EB LT 1.40 534.2 F EB LT 1.44 551.0 F 16.8 Tenth Avenue @ 30th Street EB LT 1.99 762.9 F EB LT 2.21 861.0 F 98.1 NB R 0.82 28.8 C NB R 0.96 51.7 D 22.9 Tenth Avenue @ 33rd Street WB R 1.25 344.0 F WB R 1.29 367.4 F 23.4 Tenth Avenue @ 34t														
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Tenth Avenue @ 31st Street WB R 1.25 344.0 F WB R 1.29 367.4 F 23.4 Tenth Avenue @ 33rd Street WB TR 0.93 48.9 D WB TR 0.99 60.6 E 11.7 Tenth Avenue @ 34th Street EB DefL 0.78 57.7 D EB DefL 1.00 103.0 F 45.3 Tenth Avenue @ 35th Street WB TR 1.50 428.7 F WB TR 1.69 515.0 F 86.3 Tenth Avenue @ 42nd Street WB TR 1.03 180.6 F WB TR 1.03 180.5 F -0.1	Tenth Avenue @ 30th Street													
Tenth Avenue @ 33rd Street WB TR 0.93 48.9 D WB TR 0.99 60.6 E 11.7 Tenth Avenue @ 34th Street EB DefL 0.78 57.7 D EB DefL 1.00 103.0 F 45.3 Tenth Avenue @ 35th Street WB TR 1.50 428.7 F WB TR 1.69 515.0 F 86.3 Tenth Avenue @ 42nd Street EB LT 1.99 718.4 F EB LT 2.01 730.3 F 11.9 WB TR 1.03 180.6 F WB TR 1.03 180.5 F -0.1														
Tenth Avenue @ 34th Street EB DefL 0.78 57.7 D EB DefL 1.00 103.0 F 45.3 Tenth Avenue @ 35th Street WB TR 1.50 428.7 F WB TR 1.69 515.0 F 86.3 Tenth Avenue @ 42nd Street EB LT 1.99 718.4 F EB LT 2.01 730.3 F 11.9 WB TR 1.03 180.6 F WB TR 1.03 180.5 F -0.1										1				
Tenth Avenue @ 35th Street														
Tenth Avenue @ 42nd Street										1	_			
Tentri Avenue @ 42nd Street	Tenth Avenue @ 35th Street									1				
WB IR 1.03 180.6 F WB IR 1.03 180.5 F -0.1	Tenth Avenue @ 42nd Street													
Tenth Avenue @ 43st Street NB T 1.22 171.1 F NB T 1.22 173.8 F 2.7														
1.22 110.0 1 2.1	Tenth Avenue @ 43st Street	NB	LT	1.22	171.1	F	NB	LT	1.22	173.8	F	2.7		

¹ This table has been revised for the FEIS.

Table 17-26A (cont'd) 2017 Future with the Proposed Actions: Weekday AM Peak Hour Intersection Approach Movements Operating at LOS Mid-D, E, or F

		cuon Ap	_								
	2017 Fu	ture Without	the Prop	osed Actio	on	2	017 Future	With the	Proposed	Actio	
Intersection	Approach	Movement	V/C Ratio	Delay Sec/Veh	LOS	Approach	Movement	V/C Ratio	Delay Sec/Veh	LOS	Delay Increment Sec/Veh
Tenth Avenue @ 57st Street	EB	LT	1.01	95.0	F	EB	LT	1.01	95.6	F	0.6
Flavorth Avenue / Twelfth Ave @	CD (11th)	Т	0.55	53.8	D	SB (11th)	Т	0.57	54.2	D	0.4
Eleventh Avenue / Twelfth Ave @ 22nd Street	SB (11th)	TR	0.47	55.2	Е	3B (11111)	TR	0.43	54.1	ш	-1.1
ZZIId Street	NB (12th)	T	1.06	108.9	F	NB (12th)	T	1.07	112.3	F	3.4
Eleventh Avenue @ 24th Street	SB	TR	1.24	214.7	F	SB	TR	1.26	225.5	F	10.8
Eleventh Avenue @ 26th Street	EB	TR	1.08	399.8	F	EB	TR	1.09	414.6	F	14.8
Eleventh Avenue @ 30th Street	EB	TR	1.04	217.8	F	EB	TR	1.20	361.6	F	143.8
Elovoriar / Worldo @ Cour Gueco	SB	LT	1.06	126.2	F	SB	LT	1.13	155.2	F	29.0
Eleventh Avenue @ 33rd Street	WB	L	0.53	33.2	С	WB	L	0.98	94.1	F	60.9
		LT	0.55	30.8	С		LT	0.95	61.6	E	30.8
Eleventh Avenue @ 37th Street	WB	L	0.75	53.1	D	WB	L	0.78	56.7	E	3.6
		R	0.67	49.0	D		R	0.69	50.0	D	1.0
Eleventh Avenue @ 38th Street	SB SB	LT	1.08	109.5	F	SB	LT	1.13	128.7	F	19.2
Eleventh Avenue @ 42nd Street Eleventh Avenue @ 44th Street	EB	LT LTR	0.98 1.26	41.2 597.3	D F	SB EB	LT LTR	1.01 1.29	85.9 604.4	F	44.7 7.1
Eleventh Avenue @ 47th Street	WB	LTR	0.97	68.8	E	WB	LTR	0.98	71.3	E	2.5
Eleventh Avenue @ 54th Street	EB	LTR	1.45	518.1	F	EB	LTR	1.49	537.1	F	19.0
Eleventh Avenue @ 56th Street	EB	LTR	1.43	286.7	F	EB	LTR	1.49	287.5	F	0.8
	EB	L	1.09	443.4	F	EB	L	1.09	443.4	F	0.0
	EB	TR	1.19	381.3	F	EB	TR	1.19	383.1	F	1.8
Eleventh Avenue @ 57th Street	WB	L	1.03	203.4	F	WB	L	1.03	203.4	F	0.0
2.010.1		L	1.18	266.1	F		L	1.18	315.6	F	49.5
	SB	TR	1.12	88.4	F	SB	TR	1.14	95.5	F	7.1
		L	0.51	67.8	E		L	0.54	69.1	E	1.3
- W.A. COW.O.	WB	LTR	0.51	68.1	Е	WB	LTR	0.51	68.3	Е	0.2
Twelfth Avenue @ 24th Street		R	0.51	69.3	E		R	0.49	68.0	E	-1.3
	SB	L	1.08	452.5	F	SB	L	1.08	452.5	F	0.0
Twelfth Avenue @ 29th Street	WB	LR	1.61	831.7	F	WB	LR	1.74	888.3	F	56.6
Twelfth Avenue @ 30th Street	SB	L	1.21	364.6	F	SB	L	1.26	383.8	F	19.2
	WD	L	0.45	59.7	Е	WD	L	0.47	60.2	Е	0.5
Twelfth Avenue @ 34th Street	WB	LR	0.46	59.8	Е	WB	LR	0.46	59.8	Е	0.0
	SB	L	0.60	63.2	Е	SB	L	0.61	63.6	Е	0.4
	EB	LR	0.13	52.6	D	EB	LR	0.11	52.3	D	-0.3
Twelfth Avenue @ Pier 79 Ferry		R	0.13	53.2	D		R	0.14	53.5	D	0.3
Terminal	NB	L	0.10	63.7	Е	NB	L	0.10	63.7	Е	0.0
	SB	TR	1.13	139.7	F	SB	TR	1.14	141.5	F	1.8
	WB	L	0.09	50.8	D	WB	L	0.09	50.8	D	0.0
Twelfth Avenue @ 41st Street		R	0.41	56.8	E		R	0.41	56.8	E	0.0
	NB	T	1.13	148.1	F	NB	T	1.14	153.3	F	5.2
	SB	T	1.14	115.7	F	SB	T	1.14	117.6	F	1.9
	EB	LTR	0.04	46.2	D	EB	LTR	0.04	46.2	D	0.0
Twelfth Avenue @ 42nd Street	WB	L T	0.32	52.2	D D	WB	L T	0.32	52.2 51.7	D D	0.0
	NB SB		0.97	49.9	E	NB SB	_	0.98	51.7	E	1.8
	WB	L LTR	0.74 0.78	63.0 72.6	E	WB	L LTR	0.76 0.78	63.7 72.6	E	0.7 0.0
Twelfth Avenue @ 43th Street	NB	LIK	0.78	165.9	F	NB	LIK	0.78	165.9	F	0.0
Twelfth Avenue @ 44th Street	SB	L	1.09	291.7	F	SB	L	1.13	303.6	F	11.9
I Wellin Avenue & 44th Sileet	EB	LTR	0.28	56.5	E	EB	LTR	0.28	56.5	E	0.0
Twelfth Avenue@ 46th Street	NB	TR	0.25	99.6	F	NB	TR	0.96	104.0	F	4.4
	SB	L	0.58	72.7	E	SB	L	0.61	74.7	E	2.0
	WB	R	0.52	61.4	E	WB	R	0.52	61.4	E	0.0
- 101 4 0 = 111 5	NB	TR	1.01	72.2	Ē	NB	TR	1.01	73.7	Ē	1.5
Twelfth Avenue @ 54th Street	SB	L	0.70	68.0	Ē	SB	L	0.72	69.8	Ē	1.8
	SB	T	1.18	129.9	F	SB	T	1.19	134.2	F	4.3
Twelfth Avenue @ 56th Street	NB			55.4	E	NB	TR		55.6	E	
(SR)	ND	TR T	0.93		F	NB	T	0.93		F	0.2 2.7
Twelfth Avenue @ 56th Street	NB SB	L	1.15 0.99	164.0 55.5	E	SB	L	1.16 0.99	166.7 55.8	E	0.3
Broadway @ 35th Street	WB	T	1.58	316.4	F	WB	T	1.68	360.5	F	44.1
Broadway @ 33th Street Broadway @ 42nd Street	WB	DefL	1.34	647.7	F	WB	DefL	1.39	663.2	F	15.5
Dioddway & 42110 Olicet	VVD	DOIL	1.04	0-71.1		***	Deil	1.00	000.2		10.0

Table 17-26A (cont'd) 2017 Future with the Proposed Actions: Weekday AM Peak Hour Intersection Approach Movements Operating at LOS Mid-D, E, or F

	2017 Fut	ure Without	the Prop	osed Actio	on	2	017 Future \		Proposed	Actio	n
Intersection	Approach										
	SB	L	0.98	93.1	F	SB	L	1.10	256.4	F	163.3
Dyer Ave @ 34th Street	SB	LR	0.99	94.9	F	SB	LR	0.95	86.2	F	-8.7
	SB	R	0.99	99.0	F	SB	R	1.05	260.4	F	161.4
Dyer Ave @ 36th Street	EB	LTR	0.77	92.6	F	EB	LTR	0.79	99.9	F	7.3
		Unsig	nalized Ir	ntersection	ns						
	2016 Fu	ture Without	the Prop	osed Acti	on	2016 F	uture With t	he Propo	sed Actio	n	
Intersection			V/C	Delay				V/C	Delay		
	Approach	Movement	Ratio	Sec/Veh	LOS	Approach	Movement	Ratio	Sec/Veh	LOS	
	(No	Intersections	with Sign	ificant adve	erse Ir	npacts)					

Notes:

Shading denotes approach movement subject to significant adverse impact. No shading denotes movement with 45.0 or more seconds of delay, but not subject to significant adverse impact

Delay calculated at greater than 300 seconds is considered unreliable, though the congestion at this level is considered an impact.

Negative delay increments are attributable to rounding, changes in heavy vehicle percentages, shared lane percentages, or pedestrian volumes LOS = Level of Service

EB - Eastbound, WB - Westbound, NB - Northbound, SB - Southbound

L - Left, T- Through, R - Right, DefL - De Facto Left Turn

(LnT) - Lincoln Tunnel approach lane(s)

Table 17-26B 2017 Future with the Proposed Actions: Weekday Midday Peak Hour Intersection Approach Movements Operating at LOS Mid-D, E, or F¹

Intersection Approach Wovements Operating at LOS Wild-D, E, or													
	2017 Fu	ture Without	the Prop	osed Action	1		2017 Futu	re With t	he Propose	d Action	n		
Intersection	Approach	Movement	V/C Ratio	Delay Sec/Veh	LOS	Approach	Movement	V/C Ratio	Delay Sec/Veh	LOS	Delay Increment Sec/Veh		
Sixth Avenue @ 28th Street	EB	LT	1.19	333.4	F	EB	LT	1.22	341.6	F	8.2		
0: 11 4 @ 0011 01 1	EB	LT	1.32	345.6	F	EB	LT	1.38	367.9	F	22.3		
Sixth Avenue @ 30th Street	NB	TR	0.91	52.3	D	NB	TR	0.92	53.6	D	1.3		
Sixth Avenue @ 31st Street	NB	LT	0.91	43.1	D	NB	LT	0.92	46.6	D	3.5		
0.44	NB	Т	1.18	204.6	F	NB	Т	1.19	211.0	F	6.4		
Sixth Avenue @ 34th Street	SB	Т	1.54	460.2	F	SB	Т	1.54	460.2	F	0.0		
Sixth Avenue @ 36th Street	EB	L	0.94	80.7	F	EB	L	0.94	80.7	F	0.0		
Sixth Avenue @ 42nd Street	WB	R	0.84	54.1	D	WB	R	0.83	52.3	D	-1.8		
Seventh Avenue @ 29th Street	WB	LT	1.44	446.2	F	WB	LT	1.46	455.0	F	8.8		
Seventh Avenue @ 30th Street	EB	Т	1.32	414.3	F	EB	Т	1.38	435.9	F	21.6		
Seventh Avenue @ 31st Street	WB	LT	1.36	406.2	F	WB	LT	1.39	416.3	F	10.1		
0 11 4 @ 00 101 1	WB	LT	1.47	666.0	F	WB	LT	1.48	668.3	F	2.3		
Seventh Avenue @ 33rd Street	SB	TR	1.01	72.7	Е	SB	TR	1.04	82.3	F	9.6		
Seventh Avenue @ 34th Street	EB	Т	0.89	45.7	D	EB	Т	0.92	50.3	D	4.6		
Seventh Avenue @ 35th Street	WB	LT	1.03	187.9	F	WB	LT	1.09	360.9	F	173.0		
Seventh Avenue @ 36th Street	EB	TR	1.04	209.5	F	EB	TR	1.07	322.3	F	112.8		
Eighth Avenue @ 29th Street	WB	TR	1.48	461.7	F	WB	TR	1.50	468.9	F	7.2		
Eighth Avenue @ 30th Street	EB	LT	1.20	360.5	F	EB	LT	1.22	359.8	F	-0.7		
Eighth Avenue @ 31st Street	WB	TR	1.08	357.1	F	WB	TR	1.09	362.3	F	5.2		
Eighth Avenue @ 33rd Street	NB	LT	1.17	171.9	F	NB	LT	1.19	180.0	F	8.1		
Eighth Avenue @ 34th Street	NB	LTR	1.12	150.5	F	NB	LTR	1.12	152.6	F	2.1		
Eighth Avenue @ 35th Street	WB	TR	1.21	375.4	F	WB	TR	1.25	387.2	F	11.8		
Fighth Avenue @ 36th Street	EB	LT	0.84	200.9	F	EB	LT	0.87	214.1	F	13.2		
Eighth Avenue @ 36th Street	NB	TR	1.03	99.1	F	NB	TR	1.04	100.4	F	1.3		
Ninth Avenue @ 28th Street	EB	TR	1.06	300.2	F	EB	TR	1.10	332.7	F	32.5		
Ninth Avenue @ 29th Street	SB	TR	1.13	131.8	F	SB	TR	1.14	135.4	F	3.6		
Ninth Avenue @ 30th Street	EB	TR	1.14	489.2	F	EB	TR	1.19	503.5	F	14.3		
Nilitii Avenue @ 30th Street	SB	L	2.10	653.6	F	SB	L	2.10	655.6	F	2.0		

¹ This table has been revised for the FEIS.

Table 17-26B (cont'd) 2017 Future with the Proposed Actions: Weekday Midday Peak Hour Intersection Approach Movements Operating at LOS Mid-D, E, or F

	2017 Fu	iture Without							he Propose		D, E, OI F
Intersection	Approach	Movement	V/C Ratio	Delay Sec/Veh	LOS	Approach	Movement	V/C Ratio	Delay Sec/Veh	LOS	Delay Increment Sec/Veh
Ninth Avenue @ 31st Street	WB	LTR	1.00	62.2	Е	WB	LTR	1.01	98.1	F	35.9
Ninth Avenue @ 33rd Street	WB	LT	1.48	542.6	F	WB	LT	1.57	576.0	F	33.4
	EB	Т	0.83	46.0	D	EB	Т	0.87	49.4	D	3.4
Ninth Avenue @ 34th Street	EB	R	1.44	533.9	F	EB	R	1.48	551.1	F	17.2
	SB	LTR	1.18	176.7	F	SB	LTR	1.19	182.5	F	5.8
Ninth Avenue @ 35th Street	WB	LT	1.32	487.9	F	WB	LT	1.38	513.7	F	25.8
	EB	TR	0.87	73.9	Е	EB	TR	0.92	94.1	F	20.2
Ninth Avenue @ 36th Street	SB	LT	1.05	92.8	F	SB	LT	1.06	98.1	F	5.3
Ninth Avenue @ 37th Street	WB	LT	0.90	47.6	D	WB	LT	0.93	51.8	D	4.2
Ninth Avenue @ 38th Street	EB	TR	0.90	45.2	D	EB	TR	0.91	46.3	D	1.1
THIRM TO THE GOOD COUNTY	EB	TR	0.62	156.1	F	EB	TR	0.63	158.9	F	2.8
Ninth Avenue @ 42nd Street	WB	DefL	1.15	684.5	F	WB	DefL	1.16	720.3	F	35.8
William Avenue & 42nd Street	SB	LTR	1.18	176.0	F	SB	LTR	1.19	180.3	F	4.3
Tenth Avenue @ 26th Street	EB	LT	1.15	405.1	F	EB	LT	1.17	413.5	F	8.4
		LT									
Tenth Avenue @ 28th Street	EB		1.29	464.0	F	EB	LT	1.33	479.6	F	15.6
Tenth Avenue @ 29th Street	WB	TR	0.97	56.7	E	WB	TR	0.97	56.4	E	-0.3
Tenth Avenue @ 30th Street	EB	LT	2.85	1164.0	F	EB	LT	3.12	1284.0	F	120.0
	NB	R	1.55	442.6	F	NB	R	1.55	442.6	F	0.0
Tenth Avenue @ 31st Street	WB	R	2.20	853.5	F	WB	R	2.26	877.8	F	24.3
Tenth Avenue @ 33rd Street	WB	TR	0.96	54.6	D	WB	TR	1.02	139.1	F	84.5
Tentity Wende @ 5514 Officet	NB	LT	1.06	151.8	F	NB	LT	1.09	163.3	F	11.5
	EB	DefL	0.85	67.9	Е	EB	DefL	0.95	88.7	F	20.8
Tenth Avenue @ 34th Street	WB	R	1.26	473.4	F	WB	R	1.28	483.3	F	9.9
	NB	LTR	1.06	99.1	F	NB	LTR	1.08	106.0	F	6.9
T 11 A @ 0511 O: 1	WB	TR	1.30	350.2	F	WB	TR	1.38	381.8	F	31.6
Tenth Avenue @ 35th Street	NB	LT	0.99	27.7	С	NB	LT	1.01	75.3	Е	47.6
	EB	LT	0.41	132.0	F	EB	LT	0.43	133.8	F	1.8
Tenth Avenue @ 36th Street	NB	TR	1.04	88.6	F	NB	TR	1.07	98.0	F	9.4
	EB	LT	2.17	892.4	F	EB	LT	2.20	907.0	F	14.6
Tenth Avenue @ 42nd Street	WB	TR	1.35	382.1	F	WB	TR	1.36	383.6	F	1.5
	WB	TR	0.56	115.8	F	WB	TR	0.56	116.2	F	0.4
Tenth Avenue @ 43st Street	NB	LT	1.25	189.9	F	NB	LT	1.26	191.0	F	1.1
Tenth Avenue @ 57st Street	WB	TR	0.98	52.5	D	WB	TR	0.98	52.5	D	0.0
	WD	IK	0.96	52.5	D	VVD	IK	0.96	52.5	D	0.0
Eleventh Avenue / Twelfth Ave @ 22nd Street	NB (12th)	Т	1.03	106.7	F	NB (12th)	Т	1.03	107.9	F	1.2
Eleventh Avenue @ 24th Street	SB	TR	1.39	280.3	F	SB	TR	1.43	297.5	F	17.2
Eleventh Avenue @ 26th Street	EB	TR	0.91	64.3	Е	EB	TR	0.91	64.3	Е	0.0
Eleventh Avenue @ 29th	WB	LT		43.5	D	WB	LT	0.96	54.4	D	10.0
Street	ED		0.90		F	ED					10.9
Eleventh Avenue @ 30th	EB	TR	1.24	374.5		EB	TR	1.34	421.5	F	47.0
Street	SB	LT	1.13	155.5	F	SB	LT	1.22	194.7	F	39.2
Eleventh Avenue @ 33rd	WB	L	0.73	46.5	D	WB	L	1.33	352.6	F	306.1
Street Eleventh Avenue @ 37th	WB	LT	0.78	39.4	D	WB	LT	0.93	55.8	E	16.4
Street		L	0.81	60.1	E			0.85	65.6	E	5.5
Eleventh Avenue @ 42nd Street	SB SB	LT R	0.99	102.6 46.7	F D	SB SB	LT R	1.01 0.74	111.3 46.7	F D	8.7 0.0
Eleventh Avenue @ 43rd Street	WB	LT	0.83	46.0	D	WB	LT	0.84	47.1	D	1.1
Eleventh Avenue @ 44th Street	EB	LTR	0.82	45.9	D	EB	LTR	0.84	47.2	D	1.3
Eleventh Avenue @ 47th Street	WB	LTR	0.96	63.7	Е	WB	LTR	0.98	68.6	Е	4.9
Eleventh Avenue @ 54th Street	EB	LTR	0.87	60.4	Е	EB	LTR	0.88	61.9	Е	1.5
	EB	TR	0.93	62.4	Е	EB	TR	0.93	62.9	Е	0.5
Eleventh Avenue @ 57th	WB	L	1.18	585.8	F	WB	L	1.18	585.8	F	0.0
Street	VVD										

Table 17-26B (cont'd) 2017 Future with the Proposed Actions: Weekday Midday Peak Hour Intersection Approach Movements Operating at LOS Mid-D, E, or F

	2017 Fu	ture Without							the Propose		n D, E, OI I
Intersection	Approach	Movement	V/C Ratio	Delay Sec/Veh	LOS	Approach	Movement	V/C Ratio	Delay Sec/Veh	LOS	Delay Increment Sec/Veh
		L	0.49	46.9	D		L	0.48	46.7	D	-0.2
	WB	LTR	0.50	47.7	D	WB	LTR	0.51	48.0	D	0.3
Twelfth Avenue @ 24th Street		R	0.49	47.8	D		R	0.49	47.8	D	0.0
Twellin Avenue @ 24th Street	NB	TR	1.00	44.8	D	NB	TR	1.01	84.3	F	39.5
	SB	L	0.79	91.6	Е	CD	L	0.79	91.6	Е	0.0
	SB	Т	1.11	166.9	D	SB	Т	1.11	167.5	D	0.6
Twelfth Avenue @ 29th Street	WB	LR	1.49	763.4	F	WB	LR	1.65	831.7	F	68.3
Twelfth Avenue @ 30th Street	SB	L	1.32	370.3	F	SB	L	1.40	400.7	F	30.4
Twelfth Avenue @ 34th Street	SB	L	0.72	61.8	Е	SB	L	0.72	61.8	Е	0.0
Twelfth Avenue @ Pier 79	NB	L	0.20	50.4	D	NB	L	0.20	50.4	D	0.0
Ferry Terminal	SB	TR	1.08	117.3	F	SB	TR	1.08	119.0	F	1.7
Twelfth Avenue @ 41st Street	NB	T	1.07	126.6	F	NB	T	1.08	131.7	F	5.1
Tweilin Avenue @ 41st Street	SB	Т	1.08	96.2	D	SB	Т	1.08	97.9	D	1.7
Twelfth Avenue @ 42nd Street	WB	L	0.60	45.6	D	WB	L	0.60	45.6	D	0.0
I Wellth Avenue @ 42nd Street	NB	Т	1.09	129.7	F	NB	Т	1.10	134.5	F	4.8
Twelfth Avenue @ 43th Street	WB	LTR	0.76	53.3	D	WB	LTR	0.77	53.8	D	0.5
Twellin Avenue @ 43th Street	NB	L	0.33	59.2	Е	NB	L	0.33	59.2	Е	0.0
Twelfth Avenue @ 44th Street	SB	L	0.96	81.9	F	SB	L	0.97	83.6	F	1.7
T 16th A	NB	TR	1.10	168.1	F	NB	TR	1.11	171.6	F	3.5
Twelfth Avenue@ 46th Street	SB	L	0.64	75.7	Е	SB	L	0.64	75.7	Е	0.0
Twelfth Avenue @ 54th Street	NB	TR	1.03	110.8	F	NB	TR	1.03	112.6	F	1.8
Twelfth Avenue @ 56th Street	SB	L	1.19	474.3	F	SB	L	1.19	474.3	F	0.0
Broadway @ 35th Street	WB	T	1.28	188.1	F	WB	T	1.33	209.9	F	21.8
Broadway @ 42nd Street	WB	DefL	0.83	50.6	D	WB	DefL	0.85	53.9	D	3.3
		L	0.60	45.8	D		L	0.64	46.2	D	0.4
Dyer Ave @ 34th Street	SB	LR	0.60	46.7	D	SB	LR	0.60	48.2	D	1.5
		R	0.61	47.5	D		R	0.60	47.3	D	-0.2
Dyer Ave @ 36th Street	EB	LTR	0.77	93.0	F	EB	LTR	0.81	106.5	F	13.5
		•	Ur	nsignalized	Interse	ctions					

	2016	Future Without	the Prop	osed Actio	n		2016 Futu	ire With	the Propose	d Actio	n			
Intersection											Delay			
			V/C	Delay				V/C	Delay		Increment			
	Approach	Movement	Ratio	Sec/Veh	LOS	Approach	Movement	Ratio	Sec/Veh	LOS	Sec/Veh			
Twelfth Ave @ 33rd Street	WB	R	0.62	26.8	D	WB	R	1.77	411.6	F	384.8			

Shading denotes approach movement subject to significant adverse impact. No shading denotes movement with 45.0 or more seconds of delay, but not subject to

Delay calculated at greater than 300 seconds is considered unreliable, though the congestion at this level is considered an impact.

Negative delay increments are attributable to rounding, changes in heavy vehicle percentages, shared lane percentages, or pedestrian volumes LOS = Level of Service

EB - Eastbound, WB - Westbound, NB - Northbound, SB - Southbound

L - Left, T- Through, R - Right, DefL - De Facto Left Turn (LnT) - Lincoln Tunnel approach lane(s)

Netresction			rsection A									
Intersection		2017 1	uture without	tile Flop	USEU ACIIU	!! 	-	l ruture v	vitii tile r	Toposeu A	ACTION	
Sixth Avenue 28th Street EB				V/C	Delay				V/C	Delay		
Sign	Intersection	Approach	Movement	Ratio	Sec/Veh	LOS	Approach	Movement	Ratio	Sec/Veh	LOS	Sec/Veh
Sixth Avenue @ 34th Street	Sixth Avenue @ 28th Street	EB	LT	1.31	380.1	F	EB	LT	1.34	391.0	F	10.9
Sixth Avenue 34th Street SB	Sixth Avenue @ 30th Street	EB	LT	1.28	317.0	F	EB	LT	1.33	338.3	F	21.3
Sixth Avenue @ 36th Street	Sixth Avenue @ 3/th Street			1.27	248.5	F	NB	T	1.29	253.3	F	4.8
Seventh Avenue @ 30n Street WB												
Seventh Avenue @ 30th Street EB												
Seventh Avenue @ 31st Street	Seventh Avenue @ 29th Street	WB					WB					
Seventh Avenue @ 31st Street WB LT 1.20 329.5 F WB LT 1.23 340.0 F 10.5 Seventh Avenue @ 33rd Street WB LT 1.14 520.9 F WB LT 1.55 523.0 F 2.1 Seventh Avenue @ 35th Street SB TR 1.07 91.2 F SB TR 1.10 105.0 F 13.8 Seventh Avenue @ 35th Street WB LT 1.37 476.5 F WB LT 1.15 523.0 F 2.1 Seventh Avenue @ 35th Street WB LT 1.37 476.5 F WB LT 1.45 496.1 F 19.6 Seventh Avenue @ 35th Street WB LT 1.37 476.5 F WB LT 1.43 496.1 F 19.6 Eighth Avenue @ 30th Street B LT 1.30 394.6 F EB LT 1.30 394.6 F EB LT 1.30 490.0 F 2.04 Eighth Avenue @ 31st Street NB LT 1.09 118.0 F NB LT 1.99 118.0 F NB LT 1.09 117.7 F 1.7 Eighth Avenue @ 34th Street NB LT 1.125 207.0 F NB LT 1.12 147.5 F 3.1 Eighth Avenue @ 35th Street WB TR 1.66 626.1 F WB TR 1.72 661.7 F 256. Eighth Avenue @ 35th Street WB TR 1.66 626.1 F WB TR 1.72 661.7 F 256. Eighth Avenue @ 35th Street B LT 1.41 504.0 F NB LT 1.72 661.7 F 256. Ninth Avenue @ 35th Street NB TR 1.00 350.0 D NB TR 1.09 64.8 F 25. Ninth Avenue @ 35th Street WB TR 1.09 388.5 F EB TR 0.98 61.3 E B TR 0.98 61.3 E B TR 0.99 388.5 F EB TR 1.09 335.6 F 7.8 Ninth Avenue @ 35th Street WB TR 1.00 350.0 D NB TR 1.08 652.4 F 25. Ninth Avenue @ 35th Street WB LT 1.14 650.8 F WB LT 1.18 650.4 F WB LT 1.25 651.7 F 256. Ninth Avenue @ 35th Street WB LT 1.14 504.0 F EB LT 1.14 150.0 D WB TR 0.96 48.7 D 2.5 Ninth Avenue @ 35th Street NB LT 1.00 350.0 D NB TR 1.09 135.6 F 7.8 Ninth Avenue @ 35th Street WB LT 1.16 504.8 F WB LT 1.80 652.4 F 25. Ninth Avenue @ 35th Street WB LT 1.16 504.8 F WB LT 1.18 650.4 F WB LT 1.48 650.4 F 25. Ninth Avenue @ 35th Street WB LT 1.16 504.8 F WB LT 1.18 650.4 F WB LT 1.18 650.4 F 1.35 Ninth Avenue @ 35th Street WB LT 1.16 650.4 F WB LT 1.18 650.4 F WB LT 1.19 650.4 F 1.35 Ninth Avenue @ 35th Street WB LT 1.16 650.4 F WB LT 1.18 650.4 F 1.36 Ninth Avenue @ 35th Street WB LT 1.16 650.4 F WB LT 1.16 650.4 F WB LT 1.16 650.4 F 1.36 Ninth Avenue @ 35th Street WB LT 1.16 650.5 F WB LT 1.18 650.5 F 38 LTR 1.16 194.1 F EB LT 1.10 650.5 F 38 LTR 1.16 194.1 F EB LT 1.10 650.5 F	Seventh Avenue @ 30th Street	EB					EB					
Seventh Avenue @ 33rd Street	Couranth Assessed © 24 of Charact	WD										
Severith Avenue @ 34th Street WB LT 1.37 476.5 F WB LT 1.43 496.1 F 19.6 Severith Avenue @ 36th Street EB TR 1.24 496.6 F EB TR 1.30 429.0 F 2.04 Eighth Avenue @ 29th Street WB TR 1.29 620.9 F WB TR 1.32 633.9 F 13.0 Eighth Avenue @ 31st Street WB LT 1.30 394.6 F EB LT 1.34 410.6 F 18.0 Eighth Avenue @ 31st Street WB LT 1.09 115.0 F NB LT 1.32 633.9 F 1.30 Eighth Avenue @ 31st Street NB LT 1.09 115.0 F NB LT 1.10 119.7 F 1.7 Eighth Avenue @ 33th Street NB LT 1.59 115.0 F NB LT 1.12 119.7 F 3.1 Eighth Avenue @ 34th Street WB TR 1.66 626.1 F WB TR 1.12 651.7 F 25.6 Eighth Avenue @ 35th Street EB LT 1.41 504.0 F EB LT 1.41 504.0 F EIghth Avenue @ 35th Street EB LT 1.41 504.0 F EB LT 1.41 504.0 F EB LT 1.44 504.0 F EB LT 1.45 57.4 F 53.4 Eighth Avenue @ 35th Street WB TR 0.95 46.2 D WB TR 0.96 45.7 D 2.5 Ninth Avenue @ 35th Street NB TR 0.94 53.3 D EB TR 1.00 39.0 D NB TR 1.03 61.3 E B TR 0.94 53.3 D EB TR 1.00 39.0 D NB TR 1.03 70.2 E B TR 0.94 53.3 D EB TR 1.00 39.0 D NB TR 1.03 61.3 E 8.0 Ninth Avenue @ 35th Street WB TR 0.94 53.3 D EB TR 0.95 61.3 E B TR 0.94 53.3 D EB TR 0.95 61.3 E B TR 0.95	Seventh Avenue @ 31st Street											
Seventh Avenue @ 35th Street WB	Seventh Avenue @ 33rd Street											
Seventh Avenue @ 36th Street	Seventh Avenue @ 35th Street											
Elight Avenue @ 29th Street WB												
Elight Avenue @ 30th Street												
Eighth Avenue @ 31st Street												
Eighth Avenue @ 31st Street NB	-											
Eight Avenue @ 35th Street WB	Eighth Avenue @ 31st Street	NB		1.09	118.0	F	NB				F	1.7
Eight Avenue @ 35th Street Street EB	Eighth Avenue @ 33rd Street	NB	LT	1.25	207.0	F	NB	LT	1.27	216.6	F	9.6
Eighth Avenue @ 35th Street Sh	Eighth Avenue @ 34th Street	NB	LTR	1.11	144.4	F	NB	LTR	1.12	147.5	F	3.1
Eighth Avenue @ 37th Street	Eighth Avenue @ 35th Street	WB	TR	1.66	626.1	F	WB	TR	1.72	651.7	F	25.6
Eighth Avenue @ 38th Street NB	Eighth Avenue @ 36th Street	EB	LT	1.41	504.0	F	EB	LT	1.54	557.4	F	53.4
Ninth Avenue @ 28th Street EB	Eighth Avenue @ 37th Street			0.95					0.96			
Ninth Avenue @ 30th Street												
Ninth Avenue @ 30th Street SB	Ninth Avenue @ 28th Street											
Ninth Avenue @ 31st Street WB	Ninth Avenue @ 30th Street											
Ninth Avenue @ 33rd Street WB												
EB												
Ninth Avenue @ 34th Street SB	Ninth Avenue @ 33rd Street											
SB	Ninth Avenue @ 24th Street											
Ninth Avenue @ 35th Street WB	Milli Avende @ 54th Street											
Ninth Avenue @ 36th Street EB	Ninth Avenue @ 35th Street											
Ninth Avenue @ 36th Street SB												
Ninth Avenue @ 37th Street	Ninth Avenue @ 36th Street											
Ninth Avenue @ 38th Street SB	Ni di A											
Ninth Avenue @ 42nd Street Ninth Avenue @ 42nd Street SB	Ninth Avenue @ 37th Street	SB	TR (LnT)	1.18	244.1	F	SB	TR (LnT)	1.18	244.1	F	0.0
SB	Ninth Avenue @ 38th Street	SB	T (LnT)	1.15	232.9	F	SB	T (LnT)	1.14	230.0	F	-2.9
Tenth Avenue @ 26th Street Tenth Avenue @ 28th Street Tenth Avenue @ 29th Street Tenth Avenue @ 30th Street Tenth Avenue @ 30th Street Tenth Avenue @ 31st Street Tenth Avenue @ 31st Street Tenth Avenue @ 33rd Street Tenth Avenue @ 33rd Street Tenth Avenue @ 33rd Street Tenth Avenue @ 34th Street Tenth Avenue @ 34th Street Tenth Avenue @ 35th Street NB TR 1.02 155.9 Tenth Avenue @ 37th Street NB TR 1.38 240.8 F 2.8 2.8 EB LT 1.16 1.16 1.17 1.38 1.16 1.16 1.34 1.16 1.17 1.18 1.18 1.25 1.10 1.10 1.11 1.11 1.11 1.12 1.12 1.14 1.15 1.15 1.16 1.11	Ninth Avenue @ 42nd Street											
Tenth Avenue @ 28th Street Tenth Avenue @ 29th Street WB TR 1.17 433.1 F WB TR 1.19 436.5 F 3.4 Tenth Avenue @ 30th Street NB R 1.30 269.2 F NB R 1.33 280.5 F 11.3 Tenth Avenue @ 31st Street WB TR 1.06 NB R 2.37 849.1 F WB R 2.47 NB TR 0.90 43.9 D WB TR 0.95 51.4 D 7.5 NB LT 1.06 NB LT 1.06 NB LT 1.06 NB LT 1.06 NB LT 1.07 NB LT 1.06 NB LT 1.06 NB LT 1.07 NB LT 1.07 NB LT 1.08 376.3 F 150.6 Tenth Avenue @ 30th Street NB R 1.19 436.5 F 3.4 1270.0 F 130.0 F												
Tenth Avenue @ 29th Street Tenth Avenue @ 30th Street Tenth Avenue @ 31st Street Tenth Avenue @ 33rd Street Tenth Avenue @ 33rd Street Tenth Avenue @ 34th Street Tenth Avenue @ 35th Street Tenth Avenue @ 35th Street Tenth Avenue @ 35th Street Tenth Avenue @ 35th Street Tenth Avenue @ 37th Street Tenth Avenue @ 37th Street WB TR 1.17 433.1 F WB TR 1.19 436.5 F 3.4 1270.0 F 130.0 F												
Tenth Avenue @ 30th Street NB R 1.30 269.2 F NB R 1.33 280.5 F 11.3 Tenth Avenue @ 31st Street WB R 2.37 849.1 F WB R 2.47 897.1 F 48.0 Tenth Avenue @ 33rd Street WB TR 0.90 43.9 D WB TR 0.95 51.4 D 7.5 NB LT 1.06 148.0 F BB DefL 0.99 99.2 F BB DefL 1.23 915.7 F 816.5 WB R 2.28 867.1 F WB R 2.36 905.1 F 816.5 Tenth Avenue @ 35th Street WB TR 1.02 155.9 F WB TR 1.38 240.8 F 36.0 Tenth Avenue @ 37th Street NB LT 1.66 369.7 F NB LT 1.71 395.4 F 25.7												
NB	Tenth Avenue @ 29th Street											
Tenth Avenue @ 31st Street Tenth Avenue @ 31st Street WB R 2.37 849.1 F WB R 2.47 897.1 F 48.0 WB TR 0.90 43.9 D WB TR 0.95 51.4 D 7.5 NB LT 1.06 148.0 F NB LT 1.09 158.3 F 10.3 EB DefL 0.99 99.2 F EB DefL 1.23 915.7 F 816.5 WB R 2.28 867.1 F WB R 2.36 905.1 F 38.0 NB LTR 1.34 215.7 F NB LTR 1.37 230.9 F 15.2 Tenth Avenue @ 35th Street WB TR 1.02 155.9 F WB TR 1.11 257.3 F 101.4 Tenth Avenue @ 36th Street NB TR 1.30 204.8 F NB TR 1.38 240.8 F 36.0 Tenth Avenue @ 37th Street NB LT 1.66 369.7 F NB LT 1.71 395.4 F 25.7	Tenth Avenue @ 30th Street											
Tenth Avenue @ 33rd Street	Tonth Avenue @ 21st Street											
Tenth Avenue @ 33rd Street NB LT 1.06 148.0 F NB LT 1.09 158.3 F 10.3 EB DefL 0.99 99.2 F EB DefL 1.23 915.7 F 816.5 WB R 2.28 867.1 F WB R 2.36 905.1 F 38.0 NB LTR 1.34 215.7 F NB LTR 1.37 230.9 F 15.2 Tenth Avenue @ 35th Street WB TR 1.02 155.9 F WB TR 1.11 257.3 F 101.4 Tenth Avenue @ 36th Street NB TR 1.30 204.8 F NB TR 1.38 240.8 F 36.0 Tenth Avenue @ 37th Street NB LT 1.66 369.7 F NB LT 1.71 395.4 F 25.7	Tenth Avenue @ 31St Street											
EB DefL 0.99 99.2 F EB DefL 1.23 915.7 F 816.5 Tenth Avenue @ 34th Street WB R 2.28 867.1 F WB R 2.36 905.1 F 38.0 NB LTR 1.34 215.7 F NB LTR 1.37 230.9 F 15.2 Tenth Avenue @ 35th Street WB TR 1.02 155.9 F WB TR 1.11 257.3 F 101.4 Tenth Avenue @ 36th Street NB TR 1.30 204.8 F NB TR 1.38 240.8 F 36.0 Tenth Avenue @ 37th Street NB LT 1.66 369.7 F NB LT 1.71 395.4 F 25.7	Tenth Avenue @ 33rd Street											
Tenth Avenue @ 34th Street WB R 2.28 867.1 F WB R 2.36 905.1 F 38.0 NB LTR 1.34 215.7 F NB LTR 1.37 230.9 F 15.2 Tenth Avenue @ 35th Street WB TR 1.02 155.9 F WB TR 1.11 257.3 F 101.4 Tenth Avenue @ 36th Street NB TR 1.30 204.8 F NB TR 1.38 240.8 F 36.0 Tenth Avenue @ 37th Street NB LT 1.66 369.7 F NB LT 1.71 395.4 F 25.7												
NB LTR 1.34 215.7 F NB LTR 1.37 230.9 F 15.2 Tenth Avenue @ 35th Street WB TR 1.02 155.9 F WB TR 1.11 257.3 F 101.4 Tenth Avenue @ 36th Street NB TR 1.30 204.8 F NB TR 1.38 240.8 F 36.0 Tenth Avenue @ 37th Street NB LT 1.66 369.7 F NB LT 1.71 395.4 F 25.7	Tenth Avenue @ 34th Street											
Tenth Avenue @ 35th Street WB TR 1.02 155.9 F WB TR 1.11 257.3 F 101.4 Tenth Avenue @ 36th Street NB TR 1.30 204.8 F NB TR 1.38 240.8 F 36.0 Tenth Avenue @ 37th Street NB LT 1.66 369.7 F NB LT 1.71 395.4 F 25.7	. S World & S. III Olloct											
Tenth Avenue @ 36th Street NB TR 1.30 204.8 F NB TR 1.38 240.8 F 36.0 Tenth Avenue @ 37th Street NB LT 1.66 369.7 F NB LT 1.71 395.4 F 25.7	Tenth Avenue @ 35th Street											
Tenth Avenue @ 37th Street NB LT 1.66 369.7 F NB LT 1.71 395.4 F 25.7												
						F				395.4	F	
			TR			F			1.77		F	

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¹ This table has been revised for the FEIS.

Table 17-26C (cont'd) 2017 Future with the Proposed Actions: Weekday PM Peak Hour Intersection Approach Movements Operating at LOS Mid-D, E, or F

		1 SCCTION									
Intersection	2017 F	uture Without Movement	V/C Ratio	Delay Sec/Veh	LOS	Approach	2017 Future V Movement	Vith the F V/C Ratio	Delay Sec/Veh		Delay Increment Sec/Veh
	WB	T	1.99	1493.0	F	WB	Т	2.09	1537.0	F	44.0
Tenth Avenue @ 39th Street	WB	R	1.73	1002.0	F	WB	R	1.73	1002.0	F	0.0
	NB	LT	1.63	394.8	F	NB	LT	1.70	422.8	F	28.0
T 11 A 0 4011 O 1	EB	LT	0.43	63.6	Е	EB	LT	0.45	65.8	Е	2.2
Tenth Avenue @ 40th Street	NB	TR	1.63	387.8	F	NB	TR	1.68	410.6	F	22.8
	WB	Т	1.25	508.4	F	WB	Т	1.25	508.4	F	0.0
Tenth Avenue @ 41st Street	NB	L	1.47	428.0	F	NB	L	1.47	428.0	F	0.0
	NB	Т	1.03	103.1	F	NB	Т	1.07	118.1	F	15.0
	EB	LT	1.81	606.9	F	EB	LT	1.81	611.1	F	4.2
Tenth Avenue @ 42nd Street	WB	T (LnT)	1.28	793.6	F	WB	T (LnT)	1.28	793.6	F	0.0
		T	0.77	61.6	Е		T T	0.79	62.4	Е	0.8
Eleventh Avenue / Twelfth Ave @	SB (11th)	TR	0.68	64.9	Е	SB (11th)	TR	0.66	63.6	Е	-1.3
22nd Street	NB (12th)	T	1.14	140.1	F	NB (12th)	Т	1.15	142.0	F	1.9
Eleventh Avenue @ 24th Street	SB	TR	1.32	248.0	F	SB	TR	1.36	267.4	F	19.4
Eleventh Avenue @ 26th Street	EB	TR	1.10	397.8	F	EB	TR	1.10	397.8	F	0.0
Eleventh Avenue @ 29th Street	WB	LT	1.02	137.1	F	WB	LT	1.07	287.0	F	149.9
	EB	TR	0.97	57.4	Е	EB	TR	1.06	297.1	F	239.7
Eleventh Avenue @ 30th Street	SB	LT	1.04	116.6	F	SB	LT	1.14	152.9	F	36.3
		L	0.60	36.0	D		L	0.95	85.2	F	49.2
Eleventh Avenue @ 33rd Street	WB	LT	0.63	32.5	C	WB	LT	0.95	57.5	Ē	25.0
Eleventh Avenue @ 34th Street	WB	TR	0.90	50.0	D	WB	TR	0.97	62.0	Ē	12.0
Eleventh Avenue @ 37th Street	WB	L	0.77	53.9	D	WB	L	0.83	60.8	Ē	6.9
Eleventh Avenue @ 38th Street	NB	TR	1.29	514.4	F	NB	TR	1.40	562.3	F	47.9
Eleventh Avenue @ 39th Street	NB	T	1.07	446.0	F	NB	T	1.10	451.7	F	5.7
Lieventii Avende @ 33tii Street	EB	TR	0.94	75.5	E	EB	TR	0.94	76.3	Ė	0.8
Eleventh Avenue @ 40th Street	NB	R	1.07	253.8	F	NB	R	1.13	275.0	F	21.2
Lieventii Avende @ 40th Street	SB	L	1.00	126.4	F	SB	L	1.00	127.0	F	0.6
Eleventh Avenue @ 41st Street	SB	T (LnT)	1.15	169.3	F	SB	T (LnT)	1.15	169.3	F	0.0
Lieveritii Averide @ 41st Street	WB	L	0.46	248.0	F	WB	L (LIII)	0.42	233.5	F	-14.5
	WB	LT	0.49	98.4	F	WB	LT	0.52	106.6	F	8.2
Eleventh Avenue @ 42nd Street	VVD	R	0.49	78.7	E	VVD	R	0.92	78.7	Ė	0.0
	SB	LT (LnT)	1.29	264.9	F	SB	LT (LnT)	1.29	264.9	F	0.0
	WB	LT	0.81	43.9	D	WB	LT (LIII)	0.83	45.7	D	1.8
Eleventh Avenue @ 43rd Street	SB	T (LnT)	1.26	257.9	F	SB	T (LnT)	1.26	257.9	F	0.0
	EB	LTR	1.13	504.4	F	EB	LTR	1.15	510.0	F	5.6
Eleventh Avenue @ 44th Street	SB	T	1.13	160.1	F	SB	T	1.13	175.1	F	15.0
Lievenin Avenue @ 44in Street	SB	T (LnT)	1.26	259.0	F	SB	T (LnT)	1.26	259.0	F	0.0
	WB	LTR	0.91	53.0	D	WB	LTR	0.93	56.0	E	3.0
Eleventh Avenue @ 47th Street	SB	TR	1.03	77.1	E	SB	TR	1.04	81.1	F	4.0
	EB	LTR	0.85	57.3	E	EB	LTR	0.86	59.1	Ė	1.8
Eleventh Avenue @ 54th Street	NB	L	1.33	448.6	F	NB	L	1.36	465.3	F	16.7
	EB	TR	1.22	481.5	F	EB	TR	1.22	481.5	F	0.0
	NB	L	1.14	163.7	F	NB	L	1.14	163.7	F	0.0
Eleventh Avenue @ 57th Street	SB	L	1.14	316.5	F	SB	L	1.14	336.9	F	20.4
	36	TR	1.04	63.3	E	JB JB	TR	1.05	66.3	E	3.0
		L	0.67	71.0	E		L	0.68	71.8	E	0.8
	WB	LTR	0.67	72.1	E	WB	LTR	0.68	72.7	E	0.6
Twelfth Avenue @ 24th Street	VVD	R	0.67	71.0	E	WD	R	0.68	72.7	E	1.3
I Wellin Avenue @ 24in Sileet	NB	TR	1.11	125.9	F	NB	TR	1.11	127.6	F	1.7
	SB	L	0.76	102.1	F	SB	L	0.76	102.1	F	0.0
Twelfth Avenue @ 29th Street	WB	LR	1.99	102.1	F	WB	LR	2.25	1134.0	F	117.0
Twelfth Avenue @ 30th Street	SB	LR	1.34	427.2	F	SB	L	1.52	504.5	F	77.3
I Wellth Avenue @ 30th 3ffeet	JD		0.49	59.9	E	JD				E	0.0
	WB	L LR			E	WB	L LR	0.49	59.9		
Twelfth Avenue @ 34th Street	VVD	R	0.47	59.4 48.6		WD	R	0.47	59.3 50.9	<u>E</u>	-0.1 2.3
	SB		0.57		D F	SB		0.62		F	0.0
	SB	L	1.12	591.3		SB	L	1.12	591.3		
Twelfth Avenue @ Pier 79 Ferry	EB	LR D	0.25	60.5	E	EB	LR P	0.27	61.1	<u> </u>	0.6
Terminal	ND	R	0.25	61.9	E	ND	R	0.22	61.2	<u>E</u>	-0.7
<u> </u>	NB	L	0.30	72.6	E	NB	L	0.30	72.6	Е	0.0

Table 17-26C (cont'd) 2017 Future with the Proposed Actions: Weekday PM Peak Hour Intersection Approach Movements Operating at LOS Mid-D, E, or F

		uture Without					2017 Future \				
	2017 F	atare without	i iie riop	OSEU ACIIO			LOTI FULUTE V	vidii die F	Toposeu /		Delay
			V/C	Delay				V/C	Delay		Increment
Intersection	Approach	Movement	Ratio	Sec/Veh	LOS	Approach	Movement	Ratio	Sec/Veh	LOS	Sec/Veh
	EB	LR	0.06	47.3	D	EB	LR	0.06	47.3	D	0.0
	W.D	L	0.08	60.0	Е	14/5	L	0.08	60.0	Е	0.0
Twelfth Avenue @ 41st Street	WB	R	0.47	67.7	Е	WB	R	0.47	67.7	Е	0.0
	NB	Т	1.01	75.9	Е	NB	Т	1.02	79.6	Е	3.7
	SB	Т	1.04	70.2	Е	SB	Т	1.05	72.5	Е	2.3
	EB	LTR	0.08	46.7	D	EB	LTR	0.08	46.7	D	0.0
Twelfth Avenue @ 42nd Street	WB	L	0.66	65.1	Е	WB	L	0.66	65.3	ш	0.2
Twellitt Avellue @ 4211d Street	WD	R	0.84	65.3	Е	WD	R	0.85	66.7	Е	1.4
	SB	L	1.33	432.7	F	SB	L	1.33	432.7	F	0.0
Twelfth Avenue @ 43th Street	WB	LTR	1.00	107.7	F	WB	LTR	1.02	182.1	F	74.4
	NB	L	0.16	68.0	Е	NB	L	0.16	68.0	Е	0.0
Twelfth Avenue @ 44th Street	SB	L	1.02	189.3	F	SB	L	1.02	190.2	F	0.9
	EB	LTR	0.17	51.9	D	EB	LTR	0.17	51.9	D	0.0
Twelfth Avenue@ 46th Street	NB	TR	1.12	158.6	F	NB	TR	1.13	165.0	F	6.4
	SB	L	0.63	85.0	F	SB	L	0.63	85.0	F	0.0
	WB	R	0.81	81.6	F	WB	R	0.81	82.0	F	0.4
Twelfth Avenue @ 54th Street	NB	TR	1.23	185.2	F	NB	TR	1.24	191.2	F	6.0
	SB	L	0.49	59.4	E	SB	L	0.49	59.5	Е	0.1
Twelfth Avenue @ 56th Street	NB	T	1.23	160.3	F	NB	T	1.24	167.0	F	6.7
	SB	L	1.11	387.3	F	SB	L	1.11	387.3	F	0.0
Twelfth Avenue @ 57th Street	WB	R	0.62	230.9	F	WB	R	0.62	230.9	F	0.0
Broadway @ 35th Street	WB	Т	1.49	279.9	F	WB	Т	1.54	302.1	F	22.2
Broadway @ 36th Street	EB	TR	0.94	41.0	D	EB	TR	0.98	48.7	D	7.7
	WB	LTR	0.85	51.3	D	WB	LTR	0.87	55.5	Е	4.2
Dyer Ave @ 31st Street	NB	LT	0.81	44.1	D	NB	LT	0.83	45.5	D	1.4
	SB	TR	0.91	49.9	D	SB	TR	0.91	50.1	D	0.2
	WB	R	2.76	1350.0	F	WB	R	2.82	1373.0	F	23.0
Dyer Ave @ 34th Street		L	0.78	58.8	E		L	0.78	58.8	E	0.0
	SB	LR	0.80	61.0	E	SB	LR	0.81	62.6	E	1.6
2 4 0 254 2	14/5	R	0.79	62.4	E	14/5	R	0.82	66.1	E	3.7
Dyer Ave @ 35th Street	WB	LTR	0.76	195.2	F	WB	LTR	0.80	207.8	F	12.6
Dyer Ave @ 36th Street	EB	LTR	0.91	149.5	F	EB	LTR	1.06	226.1	F	76.6
•	NB	TR	1.67	556.6	F	NB	TR	1.70	570.2	F	13.6
Dyer Avenue @ 41st Street	WB	TR	1.32	494.1	F	WB	TR	1.32	494.1	F	0.0
Dyer Avenue @ 42nd Street	WB	T (LnT)	1.60	1387.0	F	WB	T (LnT)	1.60	1387.0	F	0.0
				alized Inter							
	2016 F	uture Withou	t the Prop	osed Actio	n	2016 F	uture With th	ne Propos	sed Action		
Intersection	Approach	Movement	V/C Ratio	Delay Sec/Veh	LOS	Approach	Movement	V/C Ratio	Delay Sec/Veh	LOS	Delay Increment Sec/Veh
Twelfth Ave @ 33rd Street	WB	R	0.86	53.9	F	WB	R	1.14	131.6	F	77.7

Twelfth Ave @ 47th Street Notes:

Shading denotes approach movement subject to significant adverse impact. No shading denotes movement with 45.0 or more seconds of delay, but not subject to signifcant adverse impact

1.71 383.0 F

WB

R

1.82

Delay calculated at greater than 300 seconds is considered unreliable, though the congestion at this level is considered an impact.

R

Negative delay increments are attributable to rounding, changes in heavy vehicle percentages, shared lane percentages, or pedestrian volumes LOS = Level of Service

EB - Eastbound, WB - Westbound, NB - Northbound, SB - Southbound L - Left, T- Through, R - Right, DefL - De Facto Left Turn (LnT) - Lincoln Tunnel approach lane(s)

WB

Table 17-26D 2017 Future with the Proposed Actions: Saturday Midday Peak Hour Intersection Approach Movements Operating at LOS Mid-D, E, or F¹

	2017 Future Without the Proposed Action					2017 Future With the Proposed Action					
				i	Delay						
			V/C	Delay					Delay		Increment
Intersection	Approach	Movement	Ratio	Sec/Veh			Movement		Sec/Veh	LOS	Sec/Veh
Sixth Avenue @ 28th Street	EB	LT	1.06	280.2	F	EB	LT	1.08	285.6	F	5.4
Sixth Avenue @ 30th Street	EB	LT	0.64	62.8	E	EB	LT	0.68	68.4	E	5.6
	NB	TR	1.00	44.7	D	NB	TR	1.01	84.0	F	39.3
Single Avenue @ 24th Street	EB	T	0.59	49.4	D F	EB NB	T T	0.61	52.0	D F	2.6
Sixth Avenue @ 34th Street	NB SB		1.28	248.3		SB	T	1.29	252.6		0.0
Sixth Avenue @ 36th Street	EB	T L	1.35 1.14	381.7 226.7	F	EB	L	1.35 1.14	381.7 226.7	F	0.0
Seventh Avenue @ 28th Street	EB	TR	0.85	295.5	F	EB	TR	0.88	305.8	F	10.3
Seventh Avenue @ 29th Street	WB	LT	1.03	184.3	F	WB	LT	1.06	288.0	F	103.7
Seventh Avenue @ 31st Street	WB	LT	1.33	370.1	F	WB	LT	1.35	381.2	F	11.1
Seventh Avenue @ 33rd Street	WB	LT	1.12	455.3	F	WB	LT	1.13	458.4	F	3.1
Seventh Avenue @ 34th Street	EB	TR	0.45	74.6	E	EB	TR	0.46	76.7	E	2.1
Seventh Avenue @ 35th Street	WB	LT	0.88	46.6	D	WB	LT	0.93	54.2	D	7.6
Seventh Avenue @ 36th Street	EB	TR	1.16	397.7	F	EB	TR	1.18	405.2	F	7.5
Seventh Avenue @ 37th Street	WB	LT	0.87	181.5	F	WB	LT	0.88	187.1	F	5.6
Seventh Avenue @ 38th Street	EB	TR	0.94	263.0	F	EB	TR	0.95	268.5	F	5.5
Eighth Avenue @ 29th Street	WB	TR	1.20	345.5	F	WB	TR	1.22	355.3	F	9.8
Eighth Avenue @ 30th Street	EB	LT	1.01	92.5	F	EB	LT	1.04	209.4	F	116.9
Eighth Avenue @ 31st Street	WB	TR	1.06	330.8	F	WB	TR	1.07	334.6	F	3.8
Eighth Avenue @ 33rd Street	NB	LT	1.04	119.8	F	NB	LT	1.06	124.4	F	4.6
Eighth Avenue @ 34th Street	NB	LTR	1.03	114.5	F	NB	LTR	1.03	115.6	F	1.1
Eighth Avenue @ 35th Street	WB	TR	1.43	546.3	F	WB	TR	1.47	559.9	F	13.6
Eighth Avenue @ 36th Street	EB	LT	1.08	363.5	F	EB	LT	1.10	373.1	F	9.6
Eighth Avenue @ 37th Street	WB	TR	0.96	48.6	D	WB	TR	0.97	50.9	D	2.3
Eighth Avenue @ 38th Street	NB	TR	0.93	45.9	D	NB	TR	0.93	47.5	D	1.6
Ninth Avenue @ 23rd Street	EB	TR	0.86	46.2	D	EB	TR	0.87	46.5	D	0.3
Niliti Averlue @ 231d Street	SB	TR	1.06	114.4	F	SB	TR	1.06	116.4	F	2.0
Ninth Avenue @ 28th Street	EB	TR	0.90	46.9	D	EB	TR	0.93	51.1	D	4.2
Ninth Avenue @ 29th Street	SB	TR	1.01	81.8	F	SB	TR	1.02	88.5	F	6.7
Ninth Avenue @ 30th Street	SB	L	1.85	534.8	F	SB	L	1.87	543.4	F	8.6
Ninth Avenue @ 31st Street	WB	LTR	1.02	136.4	F	WB	LTR	1.03	176.2	F	39.8
Ninth Avenue @ 33rd Street	WB	LT	1.31	470.1	F	WB	LT	1.37	492.6	F	22.5
Ninth Avenue @ 34th Street	EB	TR	0.89	44.0	D	EB	TR	0.92	47.3	D	3.3
Ninth Avenue @ 35th Street	WB	LT	1.04	229.7	F	WB	LT	1.10	361.7	F	132.0
Ninth Avenue @ 36th Street	EB	TR	1.05	160.4	F	EB	TR	1.06	165.2	F	4.8
Ninth Avenue @ 37th Street	WB	LT	0.92	47.3	D	WB	LT	0.93	50.0	D	2.7
Ninth Avenue @ 42nd Street	WB	DefL	1.04	239.9	F	WB	DefL	1.04	242.2	F	2.3
Tenth Avenue @ 26th Street	EB	LT	0.88	49.3	D	EB	LT	0.89	51.3	D	2.0
Tenth Avenue @ 28th Street	EB	LT	1.43	532.6	F	EB	LT	1.46	545.7	F	13.1
Tenth Avenue @ 30th Street	EB	LT	1.69	601.9	F	EB	LT	1.87	685.1	F	83.2
	NB	R	1.25	243.8	F	NB	R	1.22	231.0	F	-12.8
Tenth Avenue @ 31st Street	WB	R	1.26	360.5	F	WB	R	1.28	368.0	F	7.5
Tenth Avenue @ 34th Street	EB	DefL	0.82	58.1	E	EB	DefL	0.89	71.2	E	13.1
Tenth Avenue @ 35th Street	WB	TR	1.04	229.0	F	WB EB	TR	1.09	263.7	F	34.7
Tenth Avenue @ 42nd Street	EB WB	LT TR	1.96 1.44	753.6 441.5	F	WB	LT TR	1.97 1.44	756.2 441.5	F	2.6 0.0
Tonth Avonue @ 42at Street					F					F	
Tenth Avenue @ 43st Street Tenth Avenue @ 56th Street	NB EB	LT LT	1.03 0.93	93.4 58.4	E	NB EB	LT LT	1.04 0.93	96.0 58.4	E	2.6 0.0
Eleventh Avenue / Twelfth Ave @	NB (12th)	T	1.11	132.4	F	NB (12th)	T	1.11	133.7	F	1.3
22nd Street	EB		0.92	46.6	D	EB		1.01		F	F2 /
Eleventh Avenue @ 30th Street Eleventh Avenue @ 37th Street	WB	TR R	0.92		D	WB	TR R		100.0 45.1	D	53.4 0.0
	EB	TR		45.1	D	EB		0.65		D	
Eleventh Avenue @ 42nd Street Eleventh Avenue @ 47th Street	WB	LTR	0.91 0.86	45.8 48.7	D	WB	TR LTR	0.91 0.87	46.4 49.9	D	0.6 1.2
Licveniii Avenue & 47iii Sileet	V V D	LIN	0.00	+0.1	ر ا	I WD	LIN	0.07	73.3	ט	1.4

¹ This table has been revised for the FEIS.

Table 17-26D (cont'd) 2017 Future with the Proposed Actions: Saturday Midday Peak Hour Intersection Approach Movements Operating at LOS Mid-D, E, or F

	2017 Future Without the Proposed Action			n	2017 Future With the Proposed Action						
Intersection	Approach	Movement	V/C Ratio	Delay Sec/Veh	LOS	Approach	Movement	V/C Ratio	Delay Sec/Veh	LOS	Delay Increment Sec/Veh
	EB	TR	0.90	57.1	Е	EB	TR	0.90	57.1	Е	0.0
Eleventh Avenue @ 57th Street	WB	L	1.20	560.1	F	WB	L	1.20	560.1	F	0.0
Eleveritii Averiue @ 57tii Street	WD	TR	1.60	616.0	F	WB	TR	1.60	616.0	F	0.0
	NB	L	0.97	100.5	F	NB	L	0.99	105.8	F	5.3
		L	0.51	47.0	D		L	0.51	47.1	D	0.1
	WB	LTR	0.51	47.6	D	WB	LTR	0.51	47.3	D	-0.3
Twelfth Avenue @ 24th Street		R	0.52	48.4	D		R	0.52	48.7	D	0.3
	NB	TR	1.09	120.9	F	NB	TR	1.09	122.2	F	1.3
	SB	L	1.07	401.4	F	SB	L	1.07	401.4	F	0.0
Twelfth Avenue @ 29th Street	WB	LR	1.35	664.7	F	WB	LR	1.49	723.1	F	58.4
Twelfth Avenue @ 30th Street	SB	L	1.16	328.7	F	SB	L	1.25	363.5	F	34.8
Twelfth Avenue @ 34th Street	SB	L	0.86	73.5	E	SB	L	0.86	73.5	Е	0.0
Twelfth Avenue @ Pier 79 Ferry	NB	L	0.26	51.6	D	NB	L	0.26	51.6	D	0.0
Terminal	SB	TR	1.15	142.6	F	SB	TR	1.15	144.4	F	1.8
T 16th A	NB	Т	1.03	112.1	F	NB	Т	1.04	115.2	F	3.1
Twelfth Avenue @ 41st Street	SB	Т	1.11	108.1	F	SB	Т	1.12	109.6	F	1.5
Twelfth Avenue @ 42nd Street	NB	Т	1.16	156.3	F	NB	Т	1.17	160.5	F	4.2
	SB	L	0.76	52.3	D	SB	L	0.76	52.3	D	0.0
	WB	LTR	0.69	49.3	D	WB	LTR	0.69	49.2	D	-0.1
Twelfth Avenue @ 43th Street	NB	L	0.10	52.3	D	NB	L	0.10	52.3	D	0.0
	SB	Т	1.01	77.0	Е	SB	Т	1.01	77.7	Е	0.7
Twelfth Avenue @ 44th Street	SB	L	0.94	78.4	Е	SB	L	0.94	79.0	Е	0.6
T	NB	TR	1.09	157.3	F	NB	TR	1.10	160.1	F	2.8
Twelfth Avenue@ 46th Street	SB	L	0.83	94.9	F	SB	L	0.83	94.9	F	0.0
Twelfth Avenue @ 54th Street	WB	R	0.52	45.6	D	WB	R	0.52	45.6	D	0.0
Twelfth Avenue @ 56th Street	SB	L	0.85	61.2	Е	SB	L	0.85	61.2	Е	0.0
Broadway @ 35th Street	WB	Т	1.14	131.2	F	WB	Т	1.19	149.7	F	18.5
Unsignalized Intersections											
	2016 Future Without the Proposed Action				2016 Future With the Proposed Action						
Intersection	Approach	Movement	V/C Ratio	Delay Sec/Veh	LOS	Approach	Movement		Delay Sec/Veh	LOS	Delay Increment Sec/Veh
Twelfth Ave @ 47th Street	WB	R	0.89	79.8	F	WB	R	0.91	85.2	F	5.4

Notes:

Shading denotes approach movement subject to significant adverse impact. No shading denotes movement with 45.0 or more seconds of delay, but not subject to significant adverse impact

Delay calculated at greater than 300 seconds is considered unreliable, though the congestion at this level is considered an impact.

Negative delay increments are attributable to rounding, changes in heavy vehicle percentages, shared lane percentages, or pedestrian volumes LOS = Level of Service

EB - Eastbound, WB - Westbound, NB - Northbound, SB - Southbound

L - Left, T- Through, R - Right, DefL - De Facto Left Turn

(LnT) - Lincoln Tunnel approach lane(s)

Table 17-27
2019 Future with the Proposed Actions:
Off-Street Parking Utilization

			Parking Dema							
Analysis Period	Period Total Capacity		Build Increment	Total Demand	Utilization Rate	Available Spaces				
Maximum Commercial Scenario										
Weekday Midday	5,869	7,926	203	8,129	139%	(2,260)				
Weekday Overnight	4,764	3,614	207	3,821	80%	943				
Maximum Residential Scenario-Office Option										
Weekday Midday	5,869	7,926	263	8,189	140%	(2,320)				
Weekday Overnight	4,764	3,614	448	4,062	85%	702				
Maximum Residential Scenario-Hotel Option										
Weekday Midday	5,869	7,926	322	8,248	141%	(2,379)				
Weekday Overnight	4,764	3,614	586	4,200	88%	564				

Projected 2017 Future with the Proposed Actions off-street, off-site parking conditions in the Future without the Proposed Actions are presented in Table 17-28. Interim year development levels, as indicated in Table 17-2, were incorporated in the 2017 parking demand forecasts. Projected interim 2017 year off-street, off-site parking demand characteristics in the Future with the Proposed Actions are slightly different than those projected under full development discussed above. This is because it is anticipated that only 850 of the 1,600 accessory spaces, all accessory for residential uses, would be available for use in 2017. Therefore, in 2017, considering site development levels and on-site parking supply, more site-generated parking demand would need to be accommodated off-site, including all commercial parking demand. The maximum weekday midday shortfall would be generated by the Maximum Commercial Scenario at 2,508 spaces. Weekday overnight off-street off-site parking spaces are projected to be available under all development scenarios for the 2017 Future with the Proposed Actions.

Table 17-28 2017 Future with the Proposed Actions: Off-Street Parking Utilization

					700 - 001 111112	,				
			Parking Dema		1					
		Build		Utilization	Available					
Analysis Period	Total Capacity	No Build	Increment	Total Demand	Rate	Spaces				
Maximum Commercial Scenario										
Weekday Midday	5,869	7,915	462	8,377	143%	(2,508)				
Weekday Overnight	4,764	3,611	0	3,611	76%	1,153				
Maximum Residential Scenario-Office Option										
Weekday Midday	5,869	7,915	319	8,234	140%	(2,365)				
Weekday Overnight	4,764	3,611	0	3,611	76%	1,153				
Maximum Residential Scenario-Hotel Option										
Weekday Midday	5,869	7,915	39	7,955	136%	(2,086)				
Weekday Overnight	4,764	3,611	78	3,689	77%	1,075				

As indicated above, off-street parking levels would be expected to be above capacity during the weekday midday period for all scenarios of the proposed action in both 2017 and 2019. However, it is expected that the available off-street parking system would be able to accommodate the expected increase in overnight demand for all scenarios of the proposed action in both 2017 and 2019. According to the *CEQR Technical Manual*, for proposed actions within the Manhattan Business District (defined as the area south of 61st Street), the inability of the proposed action or the surrounding area to accommodate projected future parking demands would be considered a parking shortfall, but is not deemed to be a significant adverse impact. The unsatisfied demand for parking spaces during the midday peak utilization period would result in vehicles parking outside of the parking study area and motorists walking greater distances to their destinations. As parking shortfalls do not constitute significant adverse impacts for CEQR purposes, mitigation is not required.

TRAFFIC SAFETY

As discussed under Existing Conditions and indicated on Table 17-15, several intersections in the study area exceed the CEQR criteria of five or more pedestrian related accidents during any one year over the three year accident history period. The accident histories at the following intersections along each avenue indicated five or more combined pedestrian and bicycle related accidents over the three year accident history period:

• Tenth Avenue—The intersections of Tenth Avenue and West 26th Street and Tenth <u>Avenue</u> and West 34th Street.

- Ninth Avenue—The intersections of Ninth Avenue and West 28th Street, West 29th Street, West 30th Street, West 34th Street and West 37th Street
- Eighth Avenue—The intersections of Eighth Avenue and West 26th Street, West 29th Street, West 30th Street, West 31st Street, West 33rd Street, West 34th Street, West 36th Street and West 37th Street
- Seventh Avenue—The intersections of Seventh Avenue and West 27th Street, West 29th Street, West 32nd Street, West 33rd Street, West 34th Street, West 35th Street, West 36th Street and West 37th Street.

Significant changes have occurred in the study area, primarily in 2008, which would have the effect of changing pedestrian and bicycle accident patterns in the study area in the future in comparison to the accident history over the 2006 to 2008 period. These changes include the installation of a Class 1 Bicycle Path (separated on-street path) on Ninth Avenue from south of the study area to West 31st Street and a Class 2 Bicycle Lane (on-street striped route) on Eighth Avenue. Also, with the implementation of the exclusive bus lanes on West 34th Street, certain turning movements were prohibited, such as the eastbound West 34th Street left turn at Eighth Avenue, which should reduce the number of vehicle/pedestrian conflicts at this high accident location and along the 34th Street corridor overall. In addition, the NYCDOT has initiated specific pedestrian safety programs in the study area, such as implementation of lead pedestrian intervals and the Safe Streets for Seniors program which provides increased pedestrian clearance time at intersections where concentrations of senior citizens have been identified. Overall, the above measures should provide significant benefits to study area pedestrian and bicycle safety.

As indicated above, concentrations of pedestrian and bicycle accidents mostly occur in the eastern portion of the study area, east of Tenth Avenue, where significant existing volumes of pedestrians are present. The Proposed Actions would generate additional vehicle and pedestrian volumes in the study area, but mostly concentrated to the west in the area of the Development Site and adjacent to subway stations entrances/exits serving the project components. No high pedestrian/bicycle accident locations were indicated along Twelfth Avenue or Eleventh Avenue, which are adjacent to the Development Site. The Proposed Actions will generate pedestrian volumes along key pedestrian corridors leading to and from the Development Site and locations to the east, such as Penn Station. As discussed in Chapter 24, "Mitigation," proposed pedestrian mitigation measure would include 15 new bulb outs at five intersections and crosswalk widening for 17 crosswalks in the pedestrian study area. All of the proposed bulb outs and most of the proposed crosswalk widening would be at intersections along West 31st and West 33rd Street between Eighth and Eleventh Avenues. High visibility crosswalks and stop bars at intersections surrounding the Development Site would also be repainted to improve pedestrian safety at these intersections.

The measures that have been implemented by NYCDOT, in combination with the Proposed Actions' mitigation measures mentioned above, are anticipated to provide benefits to study area pedestrian and bicycle safety. Therefore, the Proposed Action would not reasonably be expected to significantly increase the number of accidents in the study area.