NYU CORE Transportation Presentation
Prepared for Community Board 2
January 10, 2012
CEQR Transportation Analyses

Where to find analyses relating to Transportation in DEIS:

- Chapter 14: Transportation
- Chapter 20: Construction Impacts
- Chapter 21: Mitigation
- Chapter 22: Alternatives
Proposed Development Area

• Four new buildings
• New/relocated garage
• New loading areas
• New mid-block crosswalks
• Widened sidewalks
• Relocated M21 bus stop
NYU 2031: Illustrative Program and RWCDS

<table>
<thead>
<tr>
<th>Use</th>
<th>Illustrative Program</th>
<th>RWCDS 1 (Max Academic)</th>
<th>RWCDS 2 (Max Dormitory)</th>
<th>RWCDS 3 (Max Hotel)</th>
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<tbody>
<tr>
<td>Academic</td>
<td>1,071,583</td>
<td>1,636,583</td>
<td>1,156,895</td>
<td>1,021,895</td>
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<td>Student Housing (Dormitory)</td>
<td>370,000</td>
<td>180,000</td>
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<td>Faculty Housing</td>
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<td>Athletic Center</td>
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<td>Retail</td>
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<td>Hotel</td>
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<td>Academic/ Conference Space</td>
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<td>Community Facility (Public Elementary School)</td>
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<td>Parking</td>
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<td>76,000</td>
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<tr>
<td>Mechanical/ Service Areas</td>
<td>376,814</td>
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<td><strong>TOTAL GSF</strong></td>
<td><strong>2,474,709</strong></td>
<td><strong>2,474,709</strong></td>
<td><strong>2,474,709</strong></td>
<td><strong>2,474,709</strong></td>
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Note: RWCDS for the Proposed Development Area does not include the 23,236 square feet of ground-floor retail development projected for the Commercial Overlay Area, which was also included in the impact analyses.

Sources: New York University and AKRF, Inc.
Transportation Scope and Analysis Framework

**Transportation Analysis Framework**

- Travel demand projections
- Vetting with DCP and DOT
- Agreement on appropriate EIS analysis scope

**Analysis Years**

- 2021 – Approx. 1.1 million square feet (excl. mechanical space & parking)
- 2031 – Approx. 2.0 million square feet (excl. mechanical space & parking)

**Quantified Transportation Analyses**

- Pedestrians
- Transit
- Traffic
- Vehicular and Pedestrian Safety
- Parking
Travel Demand Projections

**NYU Travel Survey**

- On-line survey receiving nearly 10,000 responses from the University’s students and employees
- 42% of students and 10% of employees live nearby in University housing (with auto ownership of <1% and 29%, respectively)
- Overall, <1% of NYU students and <4% of NYU employees traveling to the Washington Square Campus drive

**Trip Generation Estimates**

- Based on NYU population and survey statistics and other standard references
- Activities generated by new facilities on the two super blocks considered project increments (new to the area)
- Conservative impact analysis – no credit taken for activities that would be in the area absent the Project
Pedestrian Analysis

Study Area

- Sidewalks, corners, and crosswalks at 17 intersections
Pedestrian Analysis

Study Area

• Sidewalks, corners, and crosswalks at 17 intersections

2021 Impacts

• One corner location
Pedestrian Analysis

Study Area
• Sidewalks, corners, and crosswalks at 17 intersections

2021 Impacts
• One corner location

2031 Impacts
• One corner location
• One crosswalk location
Pedestrian Analysis

**Study Area**
- Sidewalks, corners, and crosswalks at 17 intersections

**2021 Impacts**
- One corner location

**2031 Impacts**
- One corner location
- One crosswalk location

**Mitigation Measures**
- Corner “bulb-out” or sidewalk extension
- Crosswalk widening
Transit Analysis

Study Area

- Bleecker Street Station
- Broadway-Lafayette Station
- West 4th Street Station
Transit Analysis

Study Area
- Bleecker Street Station
- Broadway-Lafayette Station
- West 4th Street Station

2021 Impacts
- None under RWCDS 3
Transit Analysis

Study Area

- Bleecker Street Station
- Broadway-Lafayette Station
- West 4th Street Station

2021 Impacts

- None under RWCDS 3
- Stairway impacts at the Broadway-Lafayette & West 4th Street Stations under RWCDS 1
Transit Analysis

Study Area
- Bleecker Street Station
- Broadway-Lafayette Station
- West 4th Street Station

2021 Impacts
- None under RWCDS 3
- Stairway impacts at the Broadway-Lafayette & West 4th Street Stations under RWCDS 1

2031 Impacts
- Stairway impacts at the Broadway-Lafayette & West 4th Street Stations
Transit Analysis
Study Area
• Bleecker Street Station
• Broadway-Lafayette Station
• West 4th Street Station

2021 Impacts
• None under RWCDS 3
• Stairway impacts at the Broadway-Lafayette & West 4th Street Stations under RWCDS 1

2031 Impacts
• Stairway impacts at the Broadway-Lafayette & West 4th Street Stations

Possible Mitigation Measures
• Stairway widenings
• New station entrance
Traffic Analysis

Study Area

• 17 intersections
Traffic Analysis

Study Area
• 17 intersections

2021 Impacts
• 5 intersections
Traffic Analysis

Study Area
• 17 intersections

2021 Impacts
• 5 intersections

2031 Impacts
• 9 intersections
Traffic Analysis

**Study Area**
- 17 intersections

**2021 Impacts**
- 5 intersections

**2031 Impacts**
- 9 intersections

**Mitigation Measures**
- Signal timing adjustments
- Lane restriping
Vehicular and Pedestrian Safety

Accident Data Review of Study Area Intersections

• Reviewed 3 years of accident data.
• Identified 3 “high accident locations,” those with 48 or more vehicular crashes or 5 or more pedestrian/bike accidents in 12 consecutive months.

High Pedestrian Accident Locations

• West Houston Street & Sixth Avenue
• West 4th Street & Sixth Avenue
• West Houston Street & West Broadway/LaGuardia Place

Recommended Safety Improvements

• Installing pedestrian safety signs
• Installing countdown timers
• Striping high visibility crosswalks
Parking

**Off-Street Parking**
- 21 public parking facilities within 1/4-mile of Proposed Development Area
- Nearly 3,000 parking spaces
- Peak midday occupancy of 84%

**2021 Parking Condition**
- No change to parking supply
- Peak midday occupancy of 91%

**2031 Parking Condition**
- WSV 670-space public parking garage replaced by new 389-space accessory parking garage
- Peak midday occupancy of 109%
- Shortfall of 236 public parking spaces; however no sig. impact