

Table of Contents

Foreword.....	F-1
Executive Summary	S-1
Chapter 1: Project Description	1-1
A. Introduction.....	1-1
B. Project Background	1-2
Description of the Project Site	1-2
Prior Development Initiatives.....	1-3
Together for Kingsbridge Vision Plan	1-3
Request for Proposals	1-4
Description of the Surrounding Area	1-5
C. Description of the Proposed Project.....	1-6
D. Proposed Actions	1-9
E. Project Purpose and Need	1-10
F. Analysis Framework for Environmental Review	1-11
Build Year	1-12
The Future Without the Proposed Project (No Action Condition)	1-12
The Future With the Proposed Project (With Action Condition)	1-12
G. Environmental Review Process.....	1-12
CEQR Overview	1-12
Chapter 2: Land Use, Zoning, and Public Policy.....	2-1
A. Introduction.....	2-1
Principal Conclusions	2-1
B. Methodology.....	2-2
Study Area.....	2-2
C. Background and Development History	2-3
Armory Site.....	2-3
National Guard Site	2-3
Prior Development Initiatives and Environmental Review	2-3
D. Existing Conditions	2-4
Land Use	2-4
Zoning	2-7
Public Policy	2-9
E. The Future Without the Proposed Project	2-12
Land Use	2-12
Zoning	2-12
Public Policy	2-12
F. The Future With the Proposed Project	2-13

Land Use	2-13
Zoning.....	2-14
Public Policy	2-15
Chapter 3: Socioeconomic Conditions	3-1
A. Introduction	3-1
Principal Conclusions	3-1
B. Methodology	3-2
Determining whether a Socioeconomic Assessment is Appropriate	3-3
Analysis Format	3-5
Study Area Definition	3-5
Data Sources	3-6
C. Preliminary Assessment	3-6
Indirect Residential Displacement	3-6
Indirect Business Displacement.....	3-11
Adverse Effects on Specific Industries	3-15
Chapter 4: Community Facilities and Services	4-1
A. Introduction	4-1
Principal Conclusions	4-1
B. Preliminary Screening.....	4-2
Direct Effects	4-3
Indirect Effects	4-3
C. Potential Direct Effects on Other Community Facilities	4-4
D. Potential Indirect Effects on Public Elementary and Intermediate Schools	4-4
Methodology	4-4
Existing Conditions	4-5
The Future Without the Proposed Project	4-5
The Future With the Proposed Project	4-7
E. Potential Indirect Effects on Publicly Funded Child Care Centers	4-9
Methodology	4-9
Existing Conditions	4-10
The Future Without the Proposed Project	4-10
The Future With the Proposed Project	4-16
Chapter 5: Open Space	5-1
A. Introduction	5-1
Principal Conclusions	5-2
B. Methodology	5-3
Direct Effects	5-3
Indirect Effects	5-3
NYC Parks Walk to a Park Initiative	5-7
C. Existing Conditions	5-7
Study Area Population	5-7
Open Space Inventory	5-8
Assessment of Open Space Adequacy	5-10
D. The Future Without the Proposed Actions.....	5-11
Indirect Effects	5-11

E. The Future With the Proposed Actions	5-13
Direct Effects	5-13
Indirect Effects	5-13
Chapter 6: Shadows	6-1
A. Introduction	6-1
Principal Conclusions	6-1
B. Definitions and Methodology	6-1
Definitions	6-1
Methodology	6-2
C. Preliminary Screening Assessment	6-3
Tier 1 Screening Assessment	6-3
Tier 2 Screening Assessment	6-4
Tier 3 Screening Assessment	6-4
D. Detailed Shadow Analysis	6-6
Determination of Impact Significance	6-6
Summary of Analysis Results	6-7
Project-Generated Open Space	6-7
E. Conclusions	6-8
Chapter 7: Historic and Cultural Resources	7-1
A. Introduction	7-1
Principal Conclusions	7-1
B. Methodology	7-3
Archaeological Resources	7-3
Architectural Resources	7-3
C. Kingsbridge Heights Background and Development History	7-5
D. Existing Conditions	7-5
Project Site	7-5
Study Area	7-9
E. The Future Without the Proposed Project	7-11
Project Site	7-11
Study Area	7-11
F. The Future With the Proposed Project	7-12
Project Site	7-12
Study Area	7-16
Chapter 8: Urban Design and Visual Resources	8-1
A. Introduction	8-1
Principal Conclusions	8-1
B. Methodology	8-3
C. Existing Conditions	8-4
Urban Design	8-4
Visual Resources and View Corridors	8-12
D. The Future Without the Proposed Project	8-14
Project Site	8-14
Study Areas	8-14
E. The Future With the Proposed Project	8-15

Urban Design	8-15
Visual Resources and View Corridors	8-20
Chapter 9: Hazardous Materials	9-1
A. Introduction	9-1
B. Principal Conclusions	9-2
C. Existing Conditions	9-3
Topography and Subsurface Conditions	9-3
Summary of AKRF's Phase I ESA Findings	9-4
2007 Phase II ESA Findings	9-5
Hazardous Materials Survey Findings	9-8
D. The Future Without the Proposed Project	9-8
E. The Future With the Proposed Project	9-8
Task 1—Sampling Protocol	9-9
Task 2—Remediation Determination and Protocol	9-9
Chapter 10: Water and Sewer Infrastructure	10-1
A. Introduction	10-1
Principal Conclusions	10-1
B. Methodology	10-2
C. Existing Conditions	10-2
Sewer System and Wastewater Treatment	10-2
Sanitary Flows	10-3
Stormwater Flows	10-4
D. The Future Without the Proposed Project (No Action Condition)	10-5
E. The Future With the Proposed Project (With Action Condition)	10-5
Sanitary Flows	10-5
Stormwater Flows	10-7
Chapter 11: Solid Waste and Sanitation Services	11-1
A. Introduction	11-1
Principal Conclusions	11-1
B. Methodology	11-2
C. Existing Conditions	11-2
Solid Waste Generation on the Development Site	11-4
D. The Future Without the Proposed Actions	11-5
E. The Future With the Proposed Actions	11-5
Proposed Project	11-5
Chapter 12: Energy	12-1
A. Introduction	12-1
Principal Conclusions	12-2
B. Methodology	12-2
C. Existing Conditions	12-2
Energy Generation	12-2
Existing Energy Consumption on the Project Site	12-4
D. The Future Without the Proposed Project	12-4
E. The Future With the Proposed Project	12-5

Chapter 13: Transportation	13-1
A. Introduction.....	13-1
Principal Conclusions	13-2
B. Preliminary Analysis Methodology and Screening Assessment.....	13-5
Transportation Planning Assumptions and Trip Generation.....	13-5
Level 1 Screening Assessment	13-9
Level 2 Screening Assessment	13-12
Summary of Detailed Transportation Analyses	13-20
C. Transportation Analysis Methodologies.....	13-20
Traffic Operations.....	13-21
Transit Operations.....	13-23
Pedestrian Operations.....	13-25
Street User Safety Assessment.....	13-28
Parking Assessment.....	13-28
D. Detailed Traffic Analysis	13-29
Existing Conditions	13-29
The Future Without the Proposed Actions.....	13-32
The Future With the Proposed Actions	13-35
E. Detailed Transit Analysis	13-38
Existing Conditions	13-38
The Future without the Proposed Actions	13-39
The Future with the Proposed Actions	13-42
F. Detailed Pedestrian Analysis.....	13-44
Existing Conditions	13-45
The Future Without the Proposed Actions.....	13-45
The Future With the Proposed Actions	13-47
G. Street User Safety Assessment.....	13-50
High Crash Locations	13-51
H. Parking Assessment.....	13-55
Existing Conditions	13-56
The Future Without the Proposed Actions.....	13-57
The Future With the Proposed Actions	13-58
Chapter 14: Air Quality	14-1
A. Introduction.....	14-1
Principal Conclusions	14-2
B. Pollutants for Analysis	14-3
Carbon Monoxide	14-3
Nitrogen Oxides, VOCs, and Ozone.....	14-3
Lead	14-4
Respirable Particulate Matter—PM ₁₀ and PM _{2.5}	14-4
Sulfur Dioxide	14-5
Noncriteria Pollutants	14-5
C. Air Quality Regulations, Standards, and Benchmarks.....	14-6
National and State Air Quality Standards.....	14-6
NAAQS Attainment Status and State Implementation Plans.....	14-7
Determining the Significance of Air Quality Impacts.....	14-8
D. Methodology for Predicting Pollutant Concentrations.....	14-12

Kingsbridge Armory Redevelopment

Mobile Sources	14-12
Stationary Sources	14-18
E. Existing Conditions	14-26
F. The Future Without the Proposed Actions.....	14-26
Mobile Sources	14-26
Stationary Sources	14-27
G. The Future With the Proposed Actions	14-28
Mobile Sources	14-28
Stationary Sources	14-30
H. Proposed Air Quality Impact Avoidance Measures	14-36
Project Site	14-36
Chapter 15: Greenhouse Gas Emissions	15-1
A. Introduction	15-1
Principal Conclusions	15-1
B. Greenhouse Gas Emissions	15-3
Pollutants of Concern	15-3
C. Policy, Regulations, Standards, and Benchmarks for Reducing GHG Emissions.	15-4
Federal Policies	15-4
New York State Policies	15-5
New York City Policies.....	15-6
D. Methodology	15-8
Building Operational Emissions	15-9
Mobile Source Emissions	15-9
Construction Emissions	15-10
Emissions from Solid Waste Management	15-12
E. Projected GHG Emissions	15-12
Building Operational Emissions	15-12
Mobile Source Emissions	15-12
Construction Emissions	15-13
Summary	15-14
F. Project Elements That Would Reduce GHG Emissions	15-15
Build Efficient Buildings	15-15
Use Clean Power.....	15-16
Transit-Oriented Development and Sustainable Transportation.....	15-17
Reduce Construction Operation Emissions	15-17
Use Building Materials With Low Carbon Intensity	15-17
G. Conclusions	15-18
Chapter 16: Noise	16-1
A. Introduction	16-1
Principal Conclusions	16-1
B. Acoustics Fundamentals.....	16-3
“A”-Weighted Sound Level (dBA)	16-3
Sound Level Descriptors.....	16-3
C. Noise Standards and Criteria.....	16-4
New York CEQR Noise Criteria	16-4

D.	Existing Noise Levels	16-6
	Equipment Used During Noise Monitoring	16-7
	Noise Measurement Results	16-7
E.	Noise Analysis Methodology	16-8
	General Methodology	16-8
F.	The Future Without the Proposed Project	16-10
G.	The Future With the Proposed Project	16-11
H.	Noise Attenuation Measures	16-13
I.	Newly Introduced Open Space	16-15
J.	Event Venue and Interior Noise-Generating Uses	16-15
K.	Mechanical System	16-20
Chapter 17: Public Health.....		17-1
A.	Introduction.....	17-1
	Principal Conclusions	17-2
B.	Public Health Assessment.....	17-3
	Air Quality	17-3
	Noise	17-5
	Construction Noise	17-6
Chapter 18: Neighborhood Character		18-1
A.	Introduction.....	18-1
	Principal Conclusions	18-2
B.	Methodology.....	18-2
	Study Area.....	18-3
C.	Preliminary Assessment.....	18-3
	Defining Features	18-3
	Assessment of the Potential to Impact Defining Features of the Neighborhood	18-5
Chapter 19: Construction		19-1
A.	Introduction.....	19-1
	Principal Conclusions	19-1
B.	Governmental Coordination and Oversight	19-3
C.	Anticipated Construction Schedule.....	19-4
D.	General Construction Practices.....	19-5
	Hours of Work	19-5
	Access, Deliveries, and Staging Areas	19-5
	Public Safety	19-6
	Community Outreach	19-6
	Rodent Control	19-7
E.	Description of Construction Activities	19-7
	Excavation and Foundation	19-7
	Superstructure	19-7
	Building Envelope.....	19-8
	Interior Finishes	19-8
	Punchlist.....	19-8
F.	Number of Construction Workers and Truck Deliveries	19-8
G.	Construction Effects of the Proposed Project.....	19-9

Kingsbridge Armory Redevelopment

Transportation.....	19-9
Air Quality	19-14
Noise.....	19-27
Vibration.....	19-45
Other Technical Areas	19-47
Chapter 20: Effects On Disadvantaged Communities	20-1
A. Introduction	20-1
Principal Conclusions	20-1
B. Identification of Disadvantaged Communities.....	20-2
C. Disadvantaged Communities Assessment	20-3
Transportation.....	20-4
Air Quality	20-4
Operational Noise	20-5
Construction Noise	20-6
Chapter 21: Alternatives	21-1
A. Introduction	21-1
Principal Conclusions	21-1
B. No Action Alternative	21-2
Description.....	21-2
Land Use, Zoning, and Public Policy	21-2
Socioeconomic Conditions	21-3
Community Facilities and Services	21-4
Open Space.....	21-5
Shadows	21-5
Historic and Cultural Resources	21-6
Urban Design and Visual Resources.....	21-6
Hazardous Materials.....	21-6
Water and Sewer Infrastructure.....	21-7
Solid Waste and Sanitation.....	21-7
Energy	21-7
Transportation.....	21-7
Air Quality	21-7
Greenhouse Gas Emissions	21-8
Noise.....	21-8
Public Health.....	21-8
Neighborhood Character	21-8
Construction.....	21-9
C. No Unmitigated Significant Impacts Alternative.....	21-9
Description.....	21-9
Transportation.....	21-9
Construction Noise	21-11
Chapter 22: Mitigation.....	22-1
A. Introduction	22-1
B. Transportation.....	22-1
Traffic.....	22-1

Pedestrians	22-10
C. Air Quality	22-11
D. Noise	22-11
E. Construction Noise	22-12
Chapter 23: Unavoidable Significant Adverse Impacts	23-1
A. Introduction.....	23-1
B. Transportation	23-1
Traffic	23-1
Transit	23-1
Pedestrians	23-2
C. Construction	23-3
Construction Noise	23-3
Chapter 24: Growth-Inducing Aspects of the Proposed Project	24-1
A. Introduction.....	24-1
B. Assessment.....	24-1
Chapter 25: Irreversible and Irretrievable Commitment of Resources	25-1
A. Introduction.....	25-1
B. Assessment.....	25-1
Chapter 26: Response to Comments on the DEIS	26-1
A. Introduction.....	26-1
B. List of Organizations and Individuals Who Commented On the Draft Environmental Impact Statement	26-1
Elected Officials.....	26-1
Organizations	26-1
Individual Commenters.....	26-2
C. Comments On the Draft Scope of Work.....	26-2
Project Description	26-2
Land Use, Zoning and Public Policy.....	26-11
Open Space	26-11
Historic and Cultural Resources	26-12
Urban Design	26-12
Transportation	26-13
Air Quality	26-16
Public Health	26-17
Miscellaneous.....	26-17
General Statements of Support for the Project.....	26-17

LIST OF APPENDICES

Appendix A: Zoning Text Amendments and No Build List

Appendix B: Historic and Cultural Resources

Appendix C: Hazardous Materials

Appendix D: Transportation

Appendix E: Air Quality

Appendix F: Noise

Appendix G: Construction

Appendix H: Mitigation

Appendix I: Comments Received on the DEIS

List of Tables

S-1	Existing Conditions and Development Program for Analysis	S-7
S-2	Summary of Significant Adverse Traffic Impacts.....	S-22
S-3	Summary of Significant Adverse Subway Station Impacts.....	S-23
S-4	Summary of Significant Adverse Pedestrian Impacts.....	S-23
S-5	Summary of High Crash Locations.....	S-24
1-1	Existing Conditions and Development Program for Analysis	1-7
2-1	Zoning Districts in the Study Area	2-9
2-2	Projects Planned for Study Area By 2032	2-13
3-1	Household Income Characteristics (2006-2010, 2019-2023 ACS).....	3-7
3-2	Average and Median Gross Rents	3-8
3-3	Asking Rents in the Socioeconomic Study Area	3-8
3-4	2025 New York City Area AMI.....	3-9
3-5	2025 New York City Affordable Monthly Rents By AMI.....	3-9
3-6	Income of With Action Population.....	3-10
3-7	Population Estimates and Projections Existing Conditions and Future Without the Proposed Project.....	3-11
3-8	With Action Condition Population	3-11
3-9	Existing Land Uses and Incremental Land Uses Under the Proposed Project	3-12
4-1	Preliminary Screening Analysis Criteria: Bronx.....	4-3
4-2	Study Area Elementary Schools.....	4-6
4-3	Study Area Intermediate Schools.....	4-6
4-4	Projected Estimated Number of New Students Introduced by Development in the No Action Condition.....	4-7
4-5	Estimated Students Introduced in the With Action Condition	4-7
4-6	Estimated Public School Enrollment, Capacity, and Utilization: With Action Condition	4-8
4-7	Publicly Funded Child Care Facilities Serving the Study Area	4-11
4-8	Estimated Child Care Facility Enrollment, Capacity, and Utilization in 2032..	4-17
5-1	Residential Population Within the Residential Study Area	5-8
5-2	Total Population Non-Residential Study Area	5-8
5-3	Study Area Open Space Inventory	5-9
5-4	Existing Conditions: Adequacy of Open Space Resources—Residential Study Area (½ Mile).....	5-10
5-5	Existing Conditions: Adequacy of Open Space Resources—Combined Non- Residential and Residential Study Area (¼ Mile)	5-11
5-6	No Action Condition: Adequacy of Open Space Resources—Residential Study Area (½ Mile).....	5-12
5-7	No Action Condition: Adequacy of Open Space Resources—Combined Non- Residential and Residential Study Area (¼ Mile)	5-12
5-8	With Action: Adequacy of Open Space Resources—Residential Study Area (½ Mile).....	5-14

Kingsbridge Armory Redevelopment

5-9	With Action Condition Passive Open Space Ratios Summary—Residential Study Area (½ Mile)	5-14
5-10	With Action Condition: Adequacy of Open Space Resources—Combined Non-Residential and Residential Study Area (¼ Mile)	5-15
5-11	With Action Condition Passive Open Space Ratios Summary—Combined Non-Residential and Residential Study Area (¼ Mile)	5-15
6-1	Tier 3 Assessment	6-5
10-1	Existing Water Consumption and Wastewater Generation	10-3
10-2	Existing Surface Coverage	10-4
10-3	With Action Condition Water Consumption and Wastewater Generation	10-6
10-4	With Action Condition Surface Coverage	10-7
10-5	DEP Volume Calculation Matrix: Existing/No Action and With Action Condition Volume Comparison	10-8
11-1	Existing Solid Waste Generation on Project Site	11-4
11-2	Proposed Project Solid Waste Generation on Project Site	11-6
11-3	Comparison of Weekly Solid Waste Generation in Tons on Development Site	11-6
12-1	Existing Conditions Annual Energy Consumption for the Project Site	12-4
12-2	With Action Annual Energy Consumption for the Project Site	12-5
13-1	Proposed Development Programmed Uses	13-1
13-2	Summary of Significant Adverse Traffic Impacts	13-2
13-3	Summary of Significant Adverse Subway Station Impacts	13-3
13-4	Summary of Significant Adverse Pedestrian Impacts	13-3
13-5	Summary of High Crash Locations	13-4
13-6	Travel Demand Assumptions	13-6
13-7	Proposed Project Trip Generation	13-9
13-8	Traffic Level 2 Screening Analysis Results	13-15
13-9	Pedestrian Level 2 Screening Analysis Results	13-18
13-10	Transportation Analysis Summary	13-20
13-11	Level of Service Criteria for Signalized Intersections	13-21
13-12	Level of Service Criteria for Unsignalized Intersections	13-22
13-13	Level of Service Criteria for Subway Station Elements	13-23
13-14	Significant Impact Guidance for Stairs and Passageways	13-24
13-15	Level of Service Criteria for Pedestrian Elements	13-26
13-16	Significant Impact Guidance for Sidewalks	13-27
13-17	Significant Impact Guidance for Corners and Crosswalks	13-28
13-18	Existing Conditions Traffic Analysis Results	13-32
13-19	Projects Planned for Study Area by 2032	13-33
13-20	2032 No Action Condition Traffic Analysis Results	13-34
13-21	2032 With Action Condition Traffic Analysis Results	13-36
13-22	2032 With Action Condition—Significant Adverse Traffic Impacts	13-37
13-23	Existing Conditions Subway Station Analysis Results	13-39
13-24	Existing Conditions Subway Line Haul Analysis Results	13-40
13-25	2032 No Action Condition Subway Station Analysis Results	13-41
13-26	2032 No Action Condition Subway Station Line Haul Analysis Results	13-41
13-27	2032 With Action Condition Subway Station Analysis Results	13-42
13-28	2032 With Action Condition—Significant Adverse Subway Station Impacts	13-43
13-29	2032 With Action Condition Subway Station Line Haul Analysis Results	13-44

Table of Contents

13-30	Existing Conditions Pedestrian Analysis Results	13-46
13-31	2032 No Action Condition Pedestrian Analysis Results	13-47
13-32	2032 With Action Condition Pedestrian Analysis Results.....	13-48
13-33	2032 With Action Condition—Significant Adverse Pedestrian Impacts	13-49
13-34	Summary of Crash Data	13-50
13-35	Existing Weekday and Saturday Off-Street Parking Supply and Utilization Approximately ¼- and ½-Mile Study Area	13-57
13-36	Existing and 2032 No Action Conditions Parking Supply and Utilization Approximately ½-Mile Study Area	13-57
13-37	Proposed Project Non-Event Day Parking Demand.....	13-58
13-38	Proposed Project Event Day Parking Demand.....	13-59
14-1	National Ambient Air Quality Standards (NAAQS)	14-7
14-2	Industrial Source Analysis Relevant NYSDEC Air Guideline Concentrations	14-10
14-3	Maximum Background Pollutant Concentrations for Mobile Source Analysis	14-16
14-4	Potential Light Industrial Uses	14-19
14-5	Industrial Source Analysis Emissions Profile.....	14-20
14-6	Representative Monitored Ambient Air Quality Data	14-27
14-7	Maximum Predicted 8-Hour Average CO No Action Concentrations	14-27
14-8	Maximum Predicted 8-Hour CO With Action Concentrations (ppm).....	14-28
14-9	Maximum Predicted 24-Hour Average PM _{2.5} With Action and Incremental Concentrations (µg/m ³).....	14-29
14-10	Maximum Predicted Annual Average PM _{2.5} With Action and Incremental Concentrations (µg/m ³).....	14-29
14-11	Maximum Predicted Concentrations from the Proposed Parking Garages ...	14-30
14-12	Maximum Modeled Pollutant Concentrations (µg/m ³)	14-31
15-1	Global Warming Potential (GWP) for Major GHGs.....	15-4
15-2	Vehicle Miles Traveled Per Year	15-10
15-3	Annual Building Operational Emissions.....	15-13
15-4	Annual Mobile Source Emissions (Metric Tons CO ₂ e)	15-13
15-5	Total Construction GHG Emissions (Metric Tons CO ₂ e)	15-14
15-6	Summary of Annual GHG Emissions (Metric Tons CO ₂ e)	15-15
16-1	Noise Levels of Common Sources	16-3
16-2	Noise Exposure Guidelines for Use in City Environmental Impact Review	16-5
16-3	Required Attenuation Values to Achieve Acceptable Interior Noise Levels ...	16-6
16-4	Noise Measurement Locations	16-6
16-5	Existing Noise Levels At Receptor Sites (in dBA)	16-8
16-6	Comparable Event Source Sound Level Measurements (in dBA).....	16-10
16-7	No Action Condition Noise Levels (in dBA)	16-11
16-8	With Action Condition Noise Levels (in dBA).....	16-12
16-9	Building Façades with Potential to Experience Significant Adverse Noise Impacts	16-13
16-10	CEQR-Required Attenuation At Noise Measurement Locations (in dBA)	16-13
16-11	Minimum Required Attenuation At Development Site (in dBA)	16-14
16-12	Live Event Venue Noise Analysis (in dBA).....	16-17
19-1	Construction Oversight in New York City	19-4
19-2	Anticipated Construction Schedule—Proposed Project	19-5
19-3	Average Number of Daily Workers and Trucks By Quarter—Proposed Project...	19-9

Kingsbridge Armory Redevelopment

19-4	Construction Worker and Truck Trip Temporal Distributions	19-11
19-5	Proposed Project Construction Vehicle Trip Projections	19-11
19-6	Construction Traffic Level 2 Screening Analysis Results	19-13
19-7	2032 Conditions: Sidewalk Analysis	19-15
19-8	Pollutants for Analysis and Averaging Periods	19-16
19-9	Representative Monitored Ambient Air Quality Data	19-24
19-10	Maximum Pollutant Concentrations – Proposed Project	19-26
19-11	Noise Receptros by Location and Use	19-31
19-12	Measured Existing Noise Levels (in dBA).....	19-36
19-13	Summary of Construction Noise Analysis Periods	19-36
19-14	Construction Equipment Noise Emissions in dBA	19-38
19-15	Select Construction Noise Analysis Results in dBA	19-40
19-16	Vibration Source Levels for Construction Equipment (dBA)	19-46
20-1	NYS Disadvantaged Communities in the ½-Mile Study Area	20-3
22-1	Summary of Traffic Mitigation Analysis Results.....	22-2
22-2	2032 With Action Condition – Significant Adverse Traffic Impacts	22-2
22-3a	Recommended Traffic Mitigation Measures Weekday AM Peak Hour	22-4
22-3b	Recommended Traffic Mitigation Measures Weekday Midday Peak Hour.....	22-5
22-3c	Recommended Traffic Mitigation Measures Weekday PM Peak Hour	22-5
22-3d	Recommended Traffic Mitigation Measures Saturday Midday/Afternoon Peak Hour	22-6
22-4	Intersections with Unmitigated Impacts	22-8
22-5	Kingsbrige Road (No. 4 Train) Station – Summary of Adverse Subway Station Impacts	22-9
22-6	Kingsbridge Road (No. 4 Train) Station Stairway Analysis – With Action Mitigation Condition.....	22-9
22-7	Proposed Project – Mitigated Condition: Subway Line-Haul Levels	22-10
22-8	Summary of Pedestrian Mitigation Analysis Results	22-11
22-9	Building Facades Eligible for Mitigation of Operational Noise	22-12

List of Figures

following page:

S-1	Project Location	S-1
S-2	Existing Site Plan	S-1
S-3	Existing Land Use	S-2
S-4	Existing and Proposed Zoning	S-2
S-5	Proposed Site Plan	S-6
S-6	Proposed Level 1 Plan	S-6
S-7	Proposed South and West Elevations	S-6
S-8	Proposed North and East Elevations	S-6
S-9	Proposed Cellar Level Plan	S-6
S-10	Proposed Basement Level Plan	S-6
S-11	Proposed Level 2 Plan	S-6
S-12	Proposed Level 3 Plan	S-6
S-13	Proposed North-South and East-West Section	S-6
S-14	Proposed Site Plan with Landscaping	S-6
S-15a	Proposed Project Illustrative View Southeast from West 195th Street	S-6
S-15b	Proposed Project Illustrative View from West 195th Street	S-6
S-16	Proposed Project Illustrative Aerial View from West Kingsbridge Road	S-6
1-1	Project Location	1-1
1-2	Existing Site Plan	1-1
1-3	Existing Land Use	1-2
1-4	Existing and Proposed Zoning	1-2
1-5	Proposed Site Plan	1-6
1-6	Proposed Level 1 Plan	1-6
1-7	Proposed South and West Elevations	1-6
1-8	Proposed North and East Elevations	1-6
1-9	Proposed Cellar Level Plan	1-6
1-10	Proposed Basement Level Plan	1-6
1-11	Proposed Level 2 Plan	1-6
1-12	Proposed Level 3 Plan	1-6
1-13	Proposed North-South and East-West Section	1-6
1-14	Proposed Site Plan with Landscaping	1-6
1-15a	Proposed Project Illustrative View Southeast from West 195th Street	1-6
1-15b	Proposed Project Illustrative View from West 195th Street	1-6
1-16	Proposed Project Illustrative Aerial View from West Kingsbridge Road	1-6
2-1	Existing Land Use	2-2
2-2	Existing Zoning	2-7
2-3	No Build Locations	2-12
2-4	Proposed Zoning	2-14
3-1	Socioeconomic Study Area	3-6

Kingsbridge Armory Redevelopment

4-1	Public Schools.....	4-4
4-2	Early Childcare Facilities.....	4-10
5-1	Proposed Open Space.....	5-1
5-2	Walk to a Park Service Area.....	5-7
5-3	Open Space.....	5-9
6-1	Tier 1 and Tier 2 Assessments.....	6-3
6-2	Tier 3 Assessment.....	6-5
7-1	Architectural Resources Reference Map.....	7-4
7-2	Armory Site.....	7-6
7-3	Armory Site.....	7-6
7-4	National Guard Site.....	7-8
7-5	Architectural Resources in Study Area.....	7-9
7-6	Architectural Resources in Study Area.....	7-10
7-7	Architectural Resources in Study Area.....	7-10
7-8	Architectural Resources in Study Area.....	7-10
7-9	Architectural Resources in Study Area.....	7-11
7-10	Proposed Exterior Work at Armory.....	7-12
7-11	Proposed Exterior Work at Armory.....	7-12
7-12	Visibility of New Roof Elements.....	7-12
7-13	Section of Proposed Armory Interior.....	7-12
7-14	Proposed Residential Building Massing Program.....	7-15
7-15	Reservoir Avenue Viewshed Comparison.....	7-17
8-1	Urban Design and Visual Resources Study Areas Photograph Key.....	8-1
8-2	Urban Design and Visual Resources Aerial Map.....	8-1
8-3	Project Site.....	8-4
8-4	Project Site.....	8-4
8-5	Project Site.....	8-4
8-6	Project Site.....	8-4
8-7	Primary Study Area.....	8-6
8-8	Primary Study Area.....	8-6
8-9	Primary Study Area.....	8-6
8-10	Primary Study Area.....	8-6
8-11	Primary Study Area.....	8-6
8-12	Primary Study Area.....	8-6
8-13	Primary Study Area.....	8-6
8-14	Primary Study Area.....	8-6
8-15	Primary Study Area.....	8-7
8-16	Primary Study Area.....	8-9
8-17	Secondary Study Area.....	8-10
8-18	Secondary Study Area.....	8-10
8-19	Secondary Study Area.....	8-10
8-20	Secondary Study Area.....	8-10
8-21	Secondary Study Area.....	8-10
8-22	Secondary Study Area.....	8-10
8-23	Secondary Study Area.....	8-10
8-24	Secondary Study Area.....	8-10
8-25	Secondary Study Area.....	8-10
8-26	Secondary Study Area.....	8-10

Table of Contents

8-27	Secondary Study Area	8-10
8-28	Proposed Site Plan	8-15
8-29	Proposed Level 1 Plan	8-15
8-30	Proposed South Elevation	8-15
8-31	Proposed West Elevation	8-15
8-32	Proposed North Elevation – Residential Building	8-15
8-33	Proposed Northeast Corner Elevation, – Residential Building and East Façade of the Armory	8-15
8-34	Proposed Northwest Corner Elevation – Residential Building and West Façade of the Armory	8-15
8-35	Proposed Site Plan with Landscaping	8-15
8-36	Proposed Project Illustrative Aerial View from West Kingsbridge Road	8-15
8-37	No Action/With Action Comparison – View northeast on West Kingsbridge Road from Aqueduct Avenue West	8-20
8-38	No Action/With Action Comparison – View northwest on West Kingsbridge Road from between Jerome and Morris Avenues	8-20
8-39	No Action/With Action Comparison – View southeast on Reservoir Avenue from near West 195th Street	8-20
8-40	No Action/With Action Comparison – View southeast from near West 195th Street and University Avenue	8-20
13-1	Transit Study Area	13-11
13-2	Proposed Site Plan	13-13
13-3a	Proposed Project Generated Vehicle Trips Weekday AM Peak Hour	13-14
13-3b	Proposed Project Generated Vehicle Trips Weekday AM Peak Hour	13-14
13-4a	Proposed Project Generated Vehicle Trips Weekday Midday Peak Hour ..	13-14
13-4b	Proposed Project Generated Vehicle Trips Weekday Midday Peak Hour ..	13-14
13-5a	Proposed Project Generated Vehicle Trips Weekday PM Peak Hour	13-14
13-5b	Proposed Project Generated Vehicle Trips Weekday PM Peak Hour	13-14
13-6a	Proposed Project Generated Vehicle Trips Weekday Evening Peak Hour ..	13-14
13-6b	Proposed Project Generated Vehicle Trips Weekday Evening Peak Hour ..	13-14
13-7a	Proposed Project Generated Vehicle Trips Saturday Midday/Afternoon Peak Hour	13-14
13-7b	Proposed Project Generated Vehicle Trips Saturday Midday/Afternoon Peak Hour	13-14
13-8a	Proposed Project Generated Vehicle Trips Saturday Evening Peak Hour ..	13-14
13-8b	Proposed Project Generated Vehicle Trips Saturday Evening Peak Hour ..	13-14
13-9	Traffic Analysis Locations	13-17
13-10	Project Generated Pedestrian Trips Weekday AM Peak Hour	13-17
13-11	Project Generated Pedestrian Trips Weekday Midday Peak Hour	13-17
13-12	Proposed Project Generated Pedestrian Trips Weekday PM Peak Hour	13-17
13-13	Proposed Project Generated Pedestrian Trips Weekday Evening Peak Hour	13-17
13-14	Proposed Project Generated Pedestrian Trips Saturday Midday/Afternoon Peak Hour	13-17
13-15	Proposed Project Generated Pedestrian Trips Saturday Evening Peak Hour	13-17

Kingsbridge Armory Redevelopment

13-16	Pedestrian Analysis Locations	13-17
13-17	No Build Locations	13-32
13-18	Off-Street Public Parking Facilities.....	13-56
16-1	Noise Receptor Locations	16-6
16-2	Area of Significant Adverse Noise Impact on Event-Day Weekend Evenings	16-13
16-3	Noise Attenuation Requirements for Noise Sensitive Uses	16-14
16-4	Event Venue Noise Attenuation Requirements	16-18
18-1	Neighborhood Character Study Area	18-3
19-1a	Proposed Project Construction PCE Trips Construction AM Peak Hour.....	19-12
19-1b	Proposed Project Construction PCE Trips Construction AM Peak Hour.....	19-12
19-2a	Proposed Project Construction PCE Trips Construction PM Peak Hour.....	19-12
19-2b	Proposed Project Construction PCE Trips Construction PM Peak Hour.....	19-12
19-3a	Construction Noise Receptor Locations.....	19-30
19-3b	Construction Noise Receptor Locations.....	19-30
19-3c	Construction Noise Receptor Locations.....	19-30
19-3d	Construction Noise Receptor Locations.....	19-30
19-4	Construction Noise Impacts	19-41
20-1	Disadvantaged Communities Study Area.....	20-2
		*