



**US Army Corps
of Engineers®**
New York District

NEW YORK AND NEW JERSEY HARBOR AND TRIBUTARTIES COASTAL STORM RISK MANAGEMENT STUDY

INTEGRATED FEASIBILITY REPORT & Tier 1 ENVIRONMENTAL IMPACT STATEMENT

APPENDIX E: Map Series

Sub-Appendix E: Alternative 5 Map Series

Table of Contents

1 Introduction..... 1

1.1 Purpose of Map Series.....1

2 Sub Appendix E: Alternative 5 Map Series

4.1 Shoreline Based Measures (SBMs) - Map Set of 4.....2

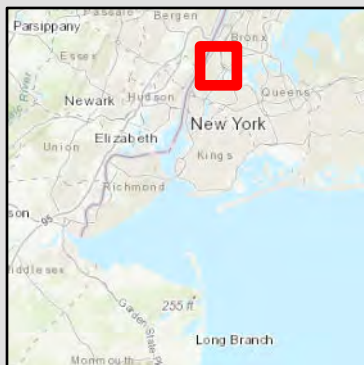
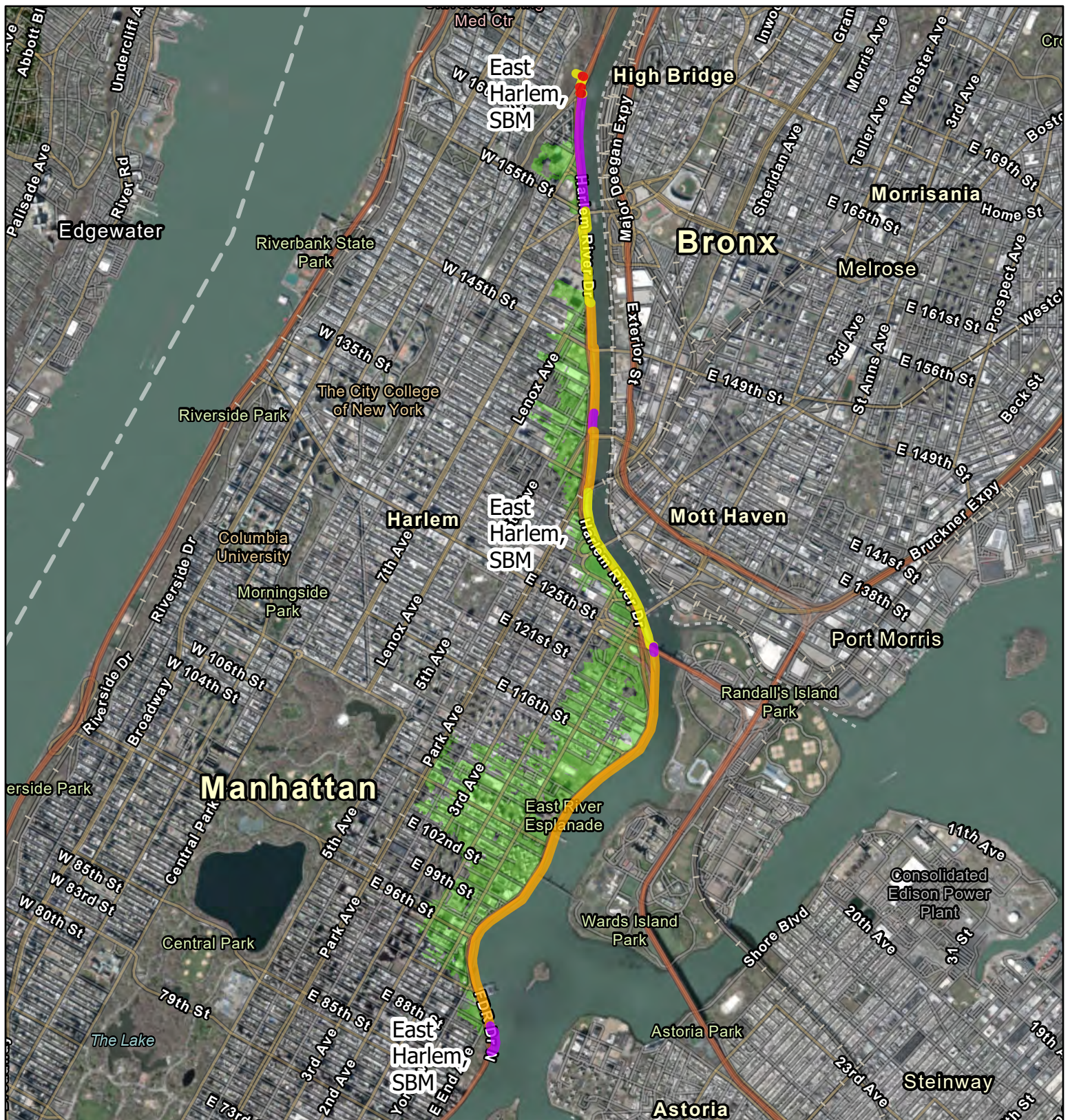
Introduction

There are five sets of map series graphics contained within this appendix. Each map series displays the various features associated with that specific alternative, the location of those features, and the specific measures that are a part of those features. The risk reduction areas associated with those features are also displayed.

The maps are organized by alternative and then broken down by the type of feature. Storm Surge Barriers (SSBs) and Shoreline Based Measures (SBMs) are grouped together in a set of maps, followed by a set of maps for Induced Flood-Mitigation Features (IFFs), and finally the Risk Reduction Features (RRFs) map sets. Each alternative includes these three types of features except for Alternative 5 which only includes SBMs.

Each feature and the area of reduced risk associated with it has its own map; however, it should be noted that the following specific maps represent more than one feature because they provide risk reduction to a shared area and/or are dependent on one another hydraulically:

- Alternative 2 – SSB/SBM Map Series
Outer Harbor Barrier and associated Shoreline Based Measure
Throgs Neck Barrier and associated Shoreline Based Measure
- Alternative 3A – SSB/SBM Map Series
Arthur Kill Barrier and associated Shoreline Based Measure
Verrazzano Narrows Barrier and associated Shoreline Based Measure
Throgs Neck Barrier and associated Shoreline Based Measures
- Alternative 3B – SSB/SBM Map Series
Arthur Kill Barrier and associated Shoreline Based Measure
Kill Van Kull Barrier and associated Shoreline Based Measure
- Alternative 2 and Alternative 3A – IFF Map Series
Eastchester Bay IFF
Throgs Neck IFF
- Alternative 2, Alternative 3A, and Alternative 3B – RRF Map Series
Kearny Point RRF
S. Kearny Point RRF



Legend

Alt5 Features/Measures

- SBM, Deployable Flood Barrier
- SBM, Elevated Promenade
- SBM, Floodwall
- SBM, Seawall

Alt5 Reduced Risk Areas

- SSB/SBM Reduced Risk Areas

NEW YORK - NEW JERSEY
HARBOR & TRIBUTARIES STUDY

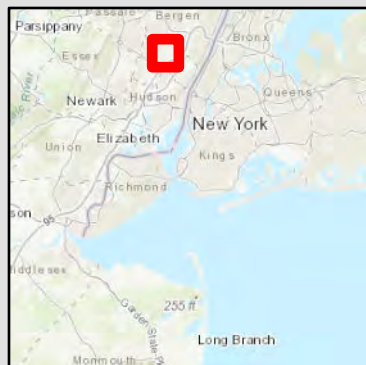
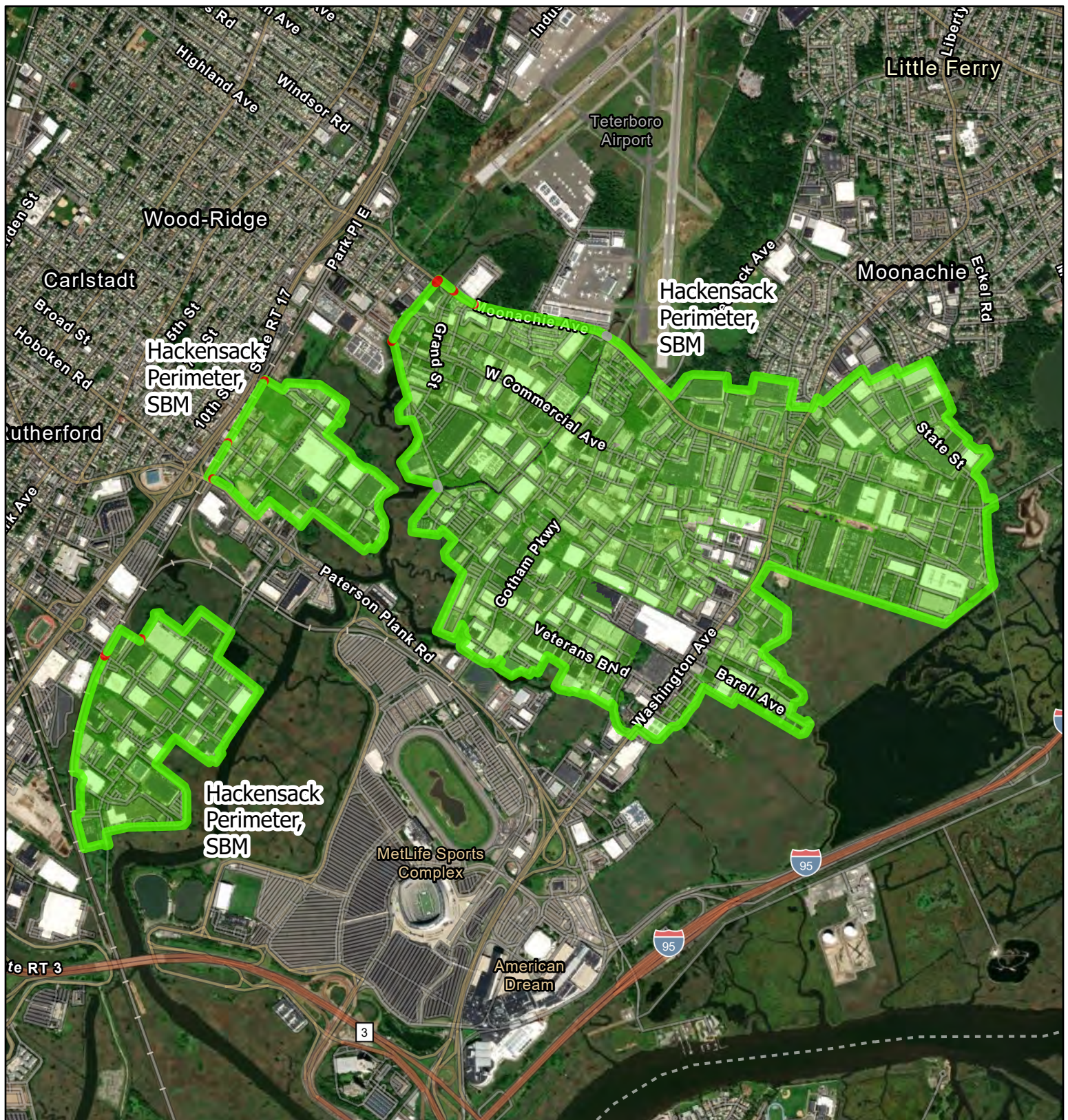
Alternative 5 - SBMs

Feature Name: East Harlem SBM
Page 1 of 4

0 3000 Feet



U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT



Legend

Alt5 Features/Measures

- SBM, Deployable Flood Barrier
- SBM, Levee
- SBM, Tide Gate

Alt5 Reduced Risk Areas

- SSB/SBM Reduced Risk Areas

NEW YORK - NEW JERSEY
HARBOR & TRIBUTARIES STUDY

Alternative 5 - SBMs

Feature Name: Hackensack Perimeter
Page 2 of 4

0 2000 Feet



U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT



Legend

Alt5 Features/Measures

- SBM, Deployable Flood Barrier
- SBM, Elevated Promenade
- SBM, Floodwall
- SBM, Levee
- SBM, Seawall

Alt5 Reduced Risk Areas

- SSB/SBM Reduced Risk Areas

NEW YORK - NEW JERSEY HARBOR & TRIBUTARIES STUDY

Alternative 5 - SBMs

Feature Name: New Jersey along Hudson
Page 3 of 4

0 2000 Feet



U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT



Legend

Alt5 Features/Measures

- SBM, Deployable Flood Barrier
- SBM, Elevated Promenade
- SBM, Floodwall
- SBM, Levee
- SBM, Seawall

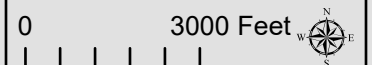
Alt5 Reduced Risk Areas

- SSB/SBM Reduced Risk Areas

NEW YORK - NEW JERSEY HARBOR & TRIBUTARIES STUDY

Alternative 5 - SBMs

Feature Name: New York City West Side
Page 4 of 4



U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT