1. Project Overview
2. Updated Schedule
3. Where We Were - Fall 2015 Concept
4. New Inputs and Considerations
5. Updated Design Concept Preview
6. Next Steps

Questions/Discussion
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EAST SIDE COASTAL RESILIENCY

Project Goals

• Provide a reliable, integrated flood protection system; minimize use of closure structures and deployables

• Improve waterfront open spaces and access

• Respond quickly to the urgent need for increased flood protection and resiliency

• Achieve implementation milestones and project funding allocations as established by HUD
EAST SIDE COASTAL RESILIENCY
Social Infrastructure
EAST SIDE COASTAL RESILIENCY
What have we been up to?

Since Fall/Winter 2015:

• Procuring final design team
• Addressing comments on Draft Scope of Work
• Evaluating Alternatives
• Developing draft Environmental Impact Statement (EIS) and permit applications
• Refining concept design based on:
  - Community input
  - Agency requirements
  - Regulatory concerns
  - Technical constraints
  - New inputs and considerations
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EAST SIDE COASTAL RESILIENCY
Updated Project Schedule

**DESIGN PROCESS**
- CONCEPT DESIGN PHASE
- PRELIMINARY DESIGN PHASE
- FINAL DESIGN PHASE

**ENVIRONMENTAL / EIS**
- DRAFT STATEMENT OF WORK
- DRAFT EIS REPORT
- PUBLIC REVIEWS & FINAL EIS REPORT

**COMMUNITY ENGAGEMENT**

**ULURP**
- PREPARATION & SUBMISSION
- COMMUNITY & TECHNICAL REVIEWS

**EAST SIDE COASTAL RESILIENCY PROJECT**

- WINTER 2015/16
- WINTER 2016/17
- WINTER 2017/18
- TBD
- TBD

**BID AWARD**
- GROUND BREAKING
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PROJECT CONTEXT AND PARAMETERS
WATERFRONT OPEN SPACES AND UPLAND NEIGHBORHOODS WERE SEVERELY IMPACTED BY HURRICANE SANDY, AND ARE AT FURTHER RISK DUE TO FUTURE SEA LEVEL RISE AND INCREASING STORM FREQUENCIES"
EAST SIDE COASTAL RESILIENCY
2015 Community Engagement Recap

ROUND 1
x2 Meetings
MARCH 19TH + 23RD
How do you use the waterfront?

ROUND 2
x3 Meetings
MAY 18TH, 28TH, 30TH
Access and Flood Protection: What are the options?

ROUND 3
x4 Meetings
JULY 28TH, 29TH, 30TH + SEPT. 10TH
How do we combine options?

ROUND 4
x2 Meetings
OCTOBER 6TH + 8TH
Initial Design Direction: Feedback and Discussion

QUARTERLY TASK FORCE MEETINGS
COMMUNITY ENGAGEMENT FEEDBACK

"DELANCEY IS AN IMPORTANT CROSSING INTO THE PARK"

"THIS IS A VERY DANGEROUS CROSSING FOR KIDS!"

"MAINTAIN VIEWS AND ACCESS TO THE NEW PIER 42 PARK"

"THIS STAIRCASE IS DANGEROUSLY STEEP"

"MAINTAIN AT GRADE CROSSINGS AT MAJOR JUNCTIONS!"

"WE LIKE THE SEPARATED BIKE LANE! IT’S SAFER FOR BIKES AND PEDESTRIANS."

"THE RAMPS ARE TOO STEEP ON BOTH SIDES OF THE BRIDGE"

"GET US IN THE MOOD FOR A PARK! YOU CAN’T SEE THE BRIDGE FROM BACK HERE"

"WE NEED MORE PASSIVE SPACE!"

"MAXIMIZE PASSIVE PROTECTION!"

"THIS AREA IS THE BEST FOR FAMILIES"

"THIS AREA HAS THE BEST TREES!"

EXTENSIVE COMMUNITY ENGAGEMENT WAS UNDERTAKEN TO DETERMINE HOW FLOOD PROTECTION COULD MEET NEEDS AND DESIRES OF THE COMMUNITY

"INTEGRATE FUTURE DEVELOPMENTS SUCH AS SOLAR 2!"
WHERE WE LEFT OFF - FALL 2015 INITIAL DESIGN DIRECTION

- Delancey St. New Bridge and Passive Areas
- New Bridge and Playgrounds
- Integration with Pier 42 Park
- Potential for Future Connection
- E.6th St. New Park-Side Landing
- Separated Bike and Ped. Ways
- E.10th St. New Bridge
- Con Ed Tie-In
- FDR Cross-Over
- Wide 20th St. Crossing at Ferry Landing
- Integration w/ Solar Two Facility
- Montgomery St. Tie-Back
- Houston New Family-Friendly Waterfront Connection
- E.25th St. Tie-Back
- 100 YEARS FLOODPLAIN
- SANDY SURGE ZONE
- 1000' 50' 100' 500' 200'
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NEW PARAMETERS

EXPAND AVAILABLE PROGRAMMING BY CREATING MORE FLEXIBLE, CASUAL, MULTI-USE AREAS OF PARK

INCORPORATE A NEW STORAGE TANK TO MANAGE COMBINED SEWER OVERFLOW

INCORPORATE CRITICAL CON-ED TRANSMISSION LINES, WHICH CARRY 16% OF NYC’S ELECTRICITY

PARK RESILIENCY

INCORPORATE MORE HOLISTIC RESILIENCE OF WATERFRONT PARKS AND OPEN SPACES

DIVERSIFY PROGRAM

EXPAND AVAILABLE PROGRAMMING BY CREATING MORE FLEXIBLE, CASUAL, MULTI-USE AREAS OF PARK

INTEGRATE CON-ED

STORAGE TANK

INCORPORATE A NEW STORAGE TANK TO MANAGE COMBINED SEWER OVERFLOW
A FLOODWALL ALONG THE BACK EDGE OF THE PARK PROTECTS THE CITY, BUT LEAVES THE PARK OPEN TO DAMAGE FROM FUTURE SEA LEVEL RISE AND HIGHER FREQUENCY STORM EVENTS.
INTEGRATED FLOOD PROTECTION
FALL 2015 CONCEPT

NOTE: ILLUSTRATIVE DIAGRAM, NOT-TO-SCALE

A WALL WITH BERM ELEMENTS WOULD SOFTEN INTEGRATION WITH THE PARK, BUT LEAVE LARGE AREAS OF THE PARK AT RISK
INTEGRATING AND RAISING MORE AREAS OF THE PARK BUILDS OPEN SPACE RESILIENCY INTO THE FUTURE

+15.5’-16’ DESIGN FLOOD ELEVATION (100 YEAR STORM TIDE + 30” SEA LEVEL RISE)

+8.5’
+6-8’

PROJECTED 2100 MHHW EXISTING GRADE

+2.3’

CURRENT MHHW
INCREASED LIMIT OF WORK ALSO ALLOWS DESIGN TO ACCOMMODATE NEW RESILIENT SUB-SURFACE INFRASTRUCTURE
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A COMBINATION OF FLOODWALLS, LEVEES, AND CLOSURE STRUCTURES COMPRIS THE BASELINE FLOOD PROTECTION SYSTEM, REACHING +16' ABOVE MEAN SEA LEVEL.
AIM TO ELEVATE PORTIONS OF EAST RIVER AND STUYVESANT COVE PARKS ARE ELEVATED, REDUCING RISK TO WATERFRONT OPEN SPACES, AND PROTECTING THE CITY
PRESERVE KEY ACTIVE PROGRAMS
NEW PASSIVE RECREATION AREAS

LEAVING ROOM FOR IMPROVED PASSIVE SPACE THROUGHOUT THE REST OF THE PARK!
SOFTENED PROGRAM BORDERS

AIM TO INCORPORATE NEW PASSIVE SPACE INTO PREVIOUSLY UNDERUTILIZED SPACES SURROUNDING FIELDS WHEREVER POSSIBLE
RE-UNITE PARK AND CITY
MAINTAIN OR IMPROVE WATERFRONT CONNECTIONS

NEW BRIDGES OR IMPROVED LANDINGS STRENGTHEN CONNECTIONS BETWEEN PARK AND NEIGHBORHOOD
THE MANHATTAN GREENWAY IS STRATEGICALLY LOCATED INLAND ALONG THE WEST EDGE OF THE PARK, HOSTING BICYCLISTS AND MAINTENANCE VEHICLES
A CONNECTED, ACTIVATED WATERFRONT!
KEY REVISIONS TO FALL 2015 CONCEPT

- REVISED FLOODWALL ALIGNMENT
- REVISED BRIDGE ALIGNMENT
- NEW PASSIVE AREAS
- INCREASED PARK INTEGRATION
MONTGOMERY ST. TIE-BACK AREA
EXISTING - STUYVESANT COVE PARK
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NEXT STEPS
Community Engagement and Revised Concept Roll-Out

TASK FORCE MEETINGS - MAY, SEPT, DEC 2016

PROJECT AREA ONE
MONTGOMERY STREET TIE-BACK - FOCUSED STAKEHOLDER MEETING(S); SEPT, TBD
DELANCEY STREET BRIDGE LANDING - FOCUSED STAKEHOLDER MEETING(S); AUG, TBD
10TH STREET BRIDGE LANDING - FOCUSED STAKEHOLDER MEETING(S); TBD
PDC CONCEPTUAL SUBMISSION OVERVIEW - CB3 PARKS COMMITTEE; OCT
PROJECT AREA ONE NORTH - COMMUNITY UPDATE SESSION; TBD
PROJECT AREA ONE SOUTH - COMMUNITY UPDATE SESSION; TBD

PROJECT AREA TWO
EAST 25TH STREET TIE-BACK - FOCUSED STAKEHOLDER MEETING(S); TBD
PDC CONCEPTUAL SUBMISSION OVERVIEW - CB6 PARKS, LANDMARKS, AND CULTURAL AFFAIRS COMMITTEE; OCT
MURPHY’S BROTHER’S AND ASSER LEVY PARKS - COMMUNITY INPUT SESSION; TBD
PROJECT AREA TWO - COMMUNITY UPDATE SESSION - TBD
NEXT STEPS
Preliminary Design

WE ARE HERE

Concept Design

Concept Revision
May 2016 - August 2016

Preliminary Design
September 2016 - February 2017

Final Design
March 2017 - October 2017

-Plan Refinement
-Detailed Planting Strategy
-Materiality, Paving, and Furnishing
-Design of Park Amenities
-Detailed Park Design
-Detailed Wall and Tie-Back Design
-Detailed Bridge Design
-Detailed M+O Strategy
-Construction Sequencing
Questions/Discussion