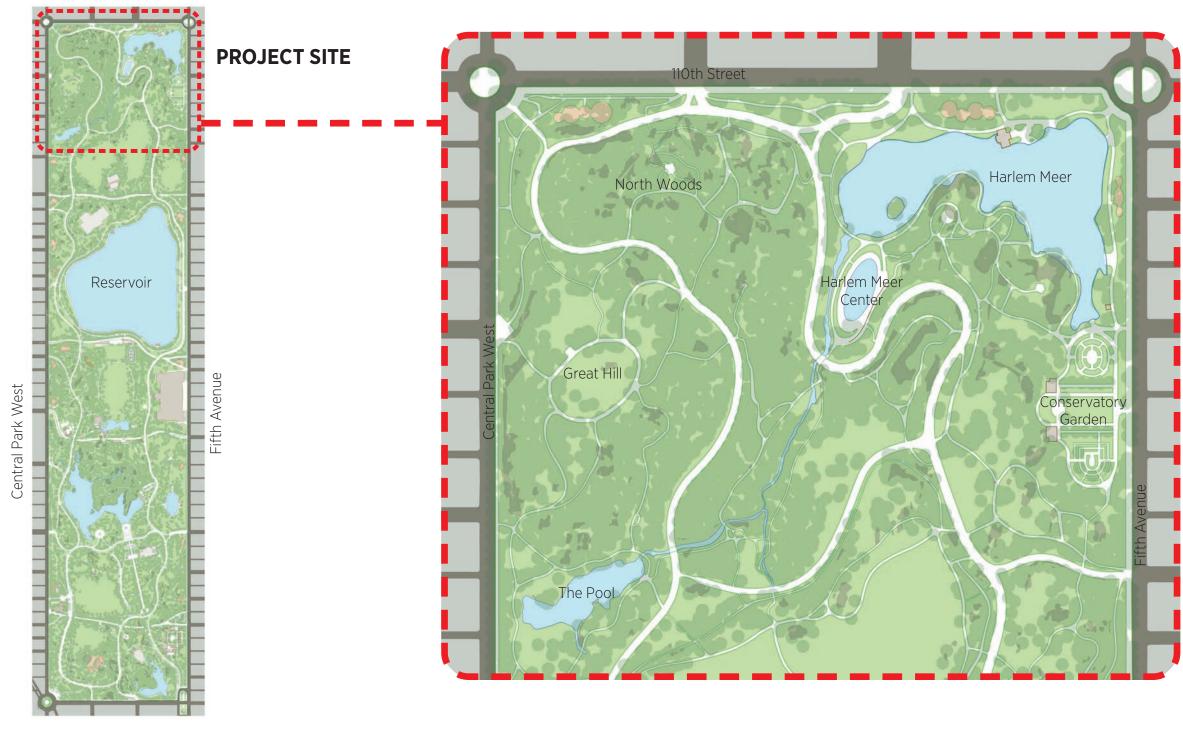
# **RESTORATION OF THE HARLEM MEER SHORELINE & NORTH END RECIRCULATION SYSTEM**









110th Street







#### LOCATION MAP & PROJECT AREA HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 2

# **COMPREHENSIVE HARLEM MEER PLAN**

HARLEM MEER CENTER AND BOARDWALK, PHASE 1 (UNDER CONSTRUCTION) HARLEM MEER SHORELINE RESTORATION AND BOARDWALK, PHASE 2 NORTH END RECIRCULATION SYSTEM

North Woods

3



Central Part West

The Pool

0

2 3

Garden

£ast Drive



#### **COMPREHENSIVE MEER SHORELINE PLAN** HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 3





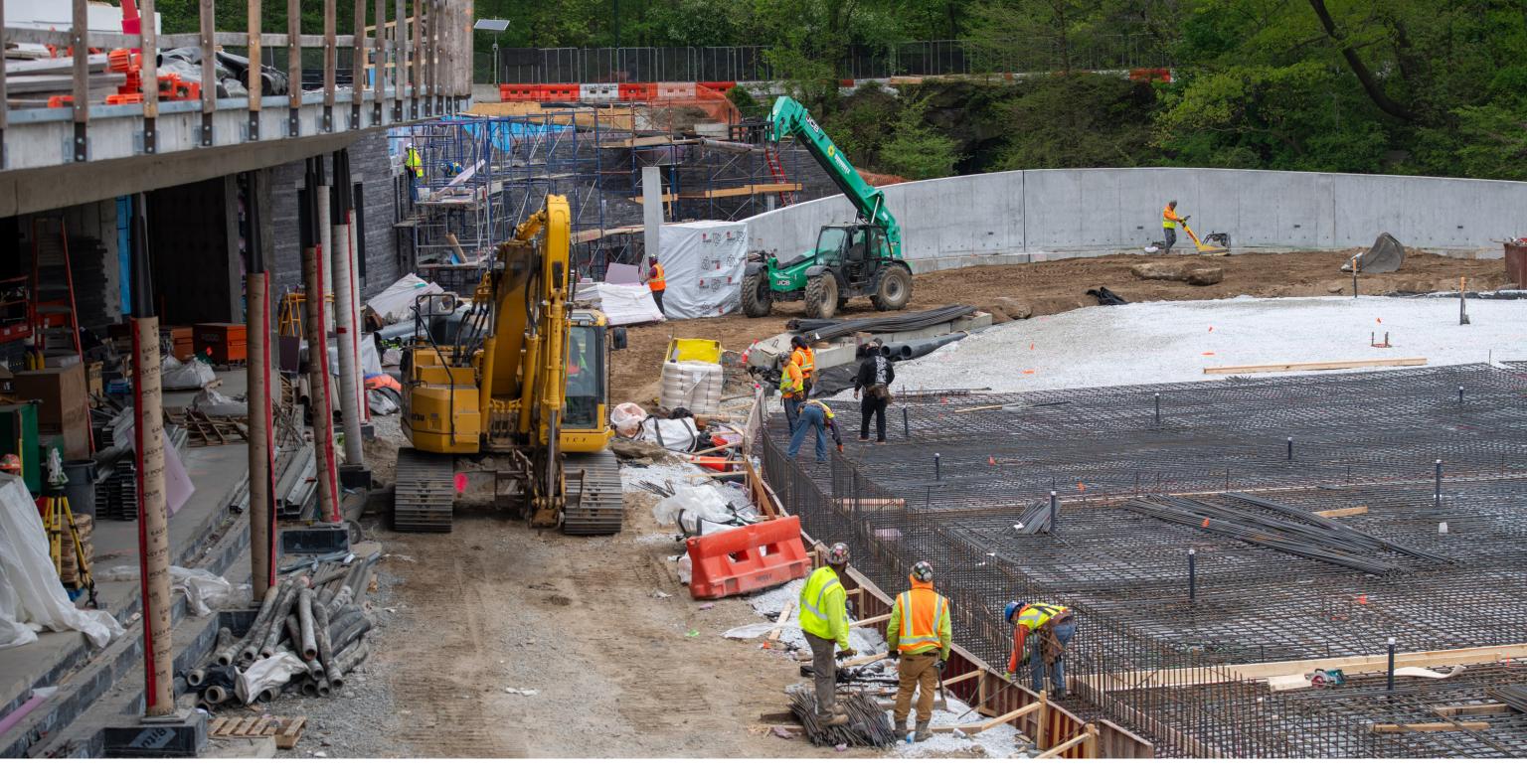
#### LASKER POOL | SEPTEMBER 24TH,2021 HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 4





HARLEM MEER CENTER UNDER CONSTRUCTION | MAY 20TH, 2024

### HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 5





#### HARLEM MEER CENTER CONSTRUCTION TO DATE HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 6





#### HARLEM MEER CENTER CONSTRUCTION TO DATE HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 7





#### HARLEM MEER CENTER CONSTRUCTION TO DATE HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 8

# **PROJECT GOALS**

**Continued restoration** of the Harlem Meer and shoreline to its **historic character** 

**Reduce water use and flooding while increasing water quality** through the implementation of a water recirculation system and aquatic planting

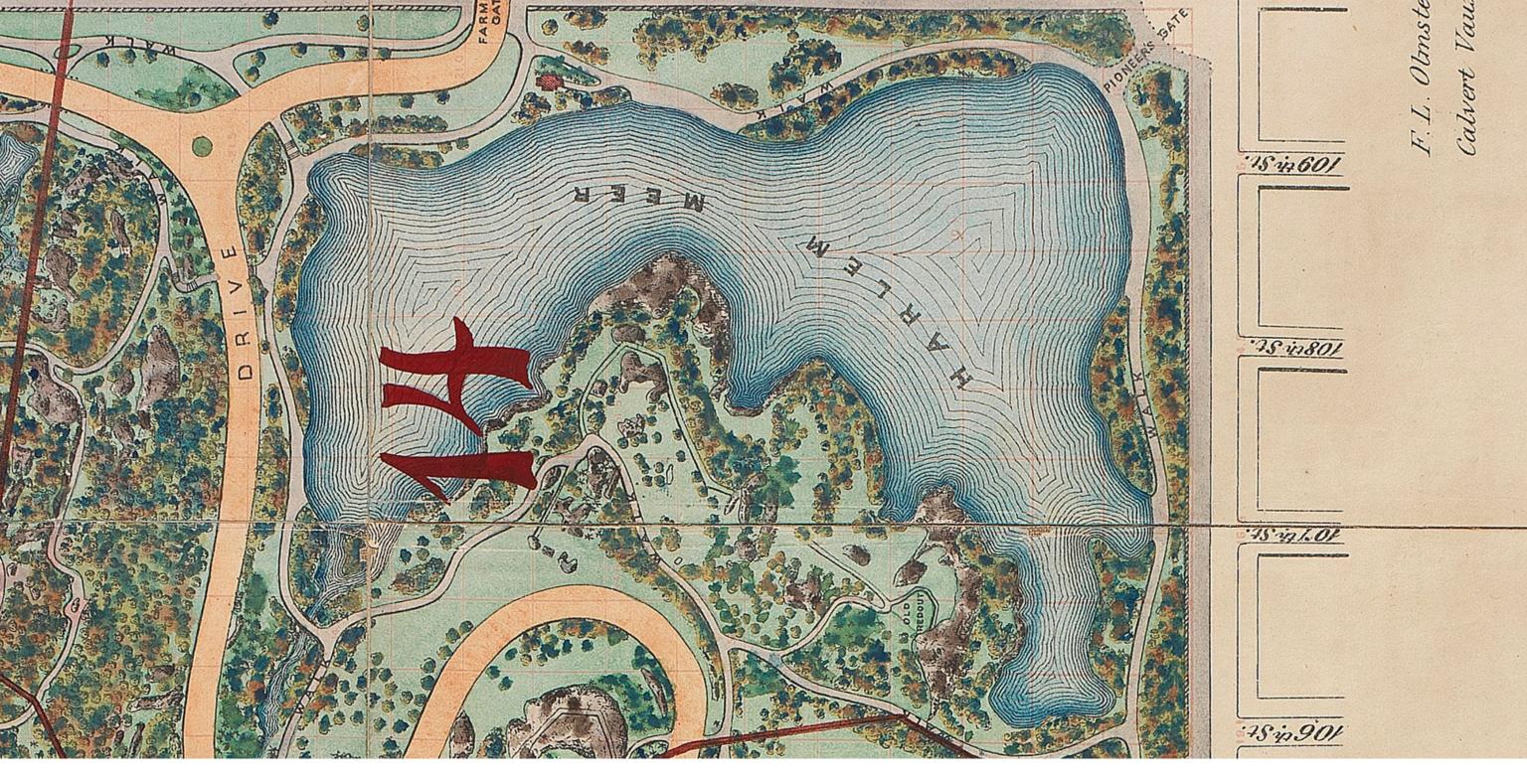
**Support wildlife habitat** through naturalizing the shoreline and expanding the waterbody surface

**Improve ADA access** to the waterfront and Park programs including the Harlem Meer Center, Dana Center, and playgrounds



HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 9

# **RESTORATION OF THE HARLEM MEER SHORELINE**





#### HARLEM MEER | 1873 HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 11





#### HARLEM MEER | LATE 19TH CENTURY HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 12





#### BOATHOUSE AND MEER SHORELINE | 1920'S HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 13





### HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 14





#### LASKER POOL AND RINK | C. 1960 HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 15



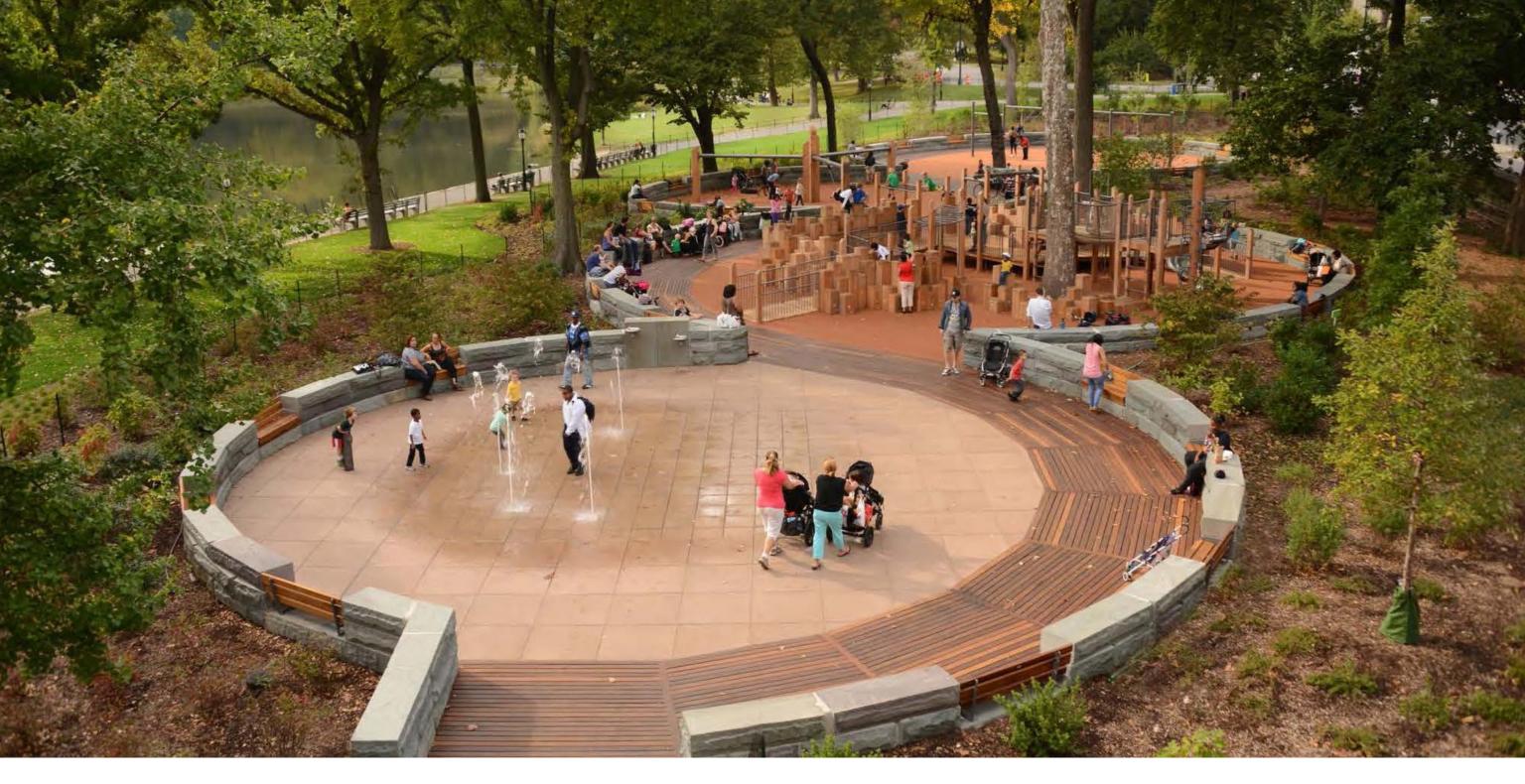


#### HARLEM MEER DETERIORATION | 1980'S HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 16





#### CHARLES A. DANA DISCOVERY CENTER HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 17





#### EAST 110TH STREET PLAYGROUND HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 18



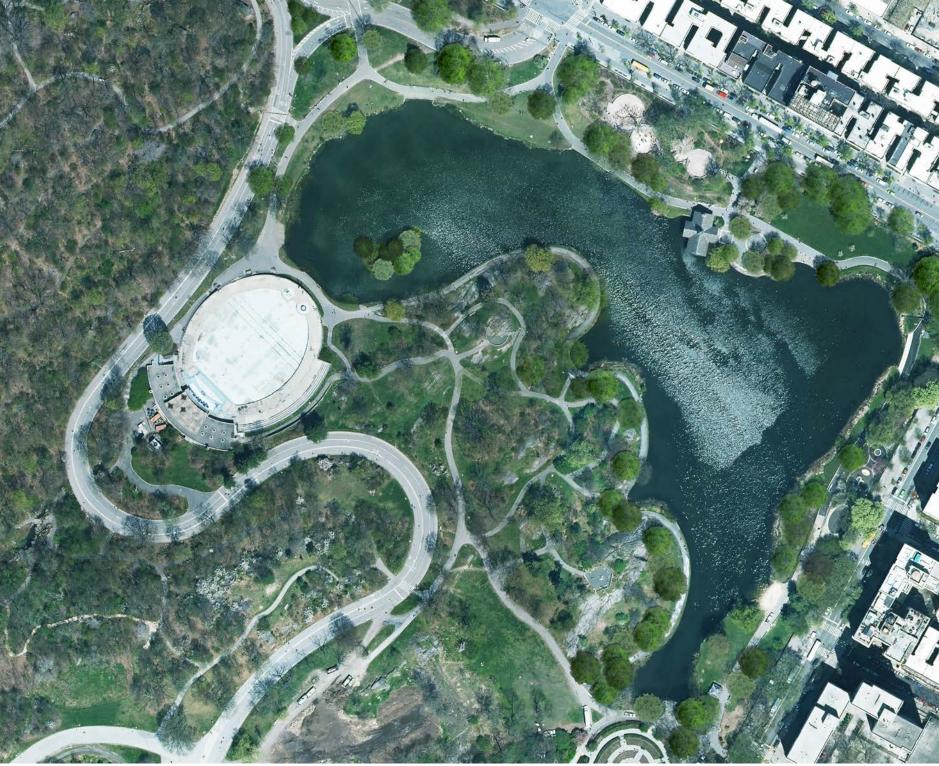


#### **EXISTING PHOTOS** HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 19





#### **EXISTING PHOTOS** HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 20







#### PRE-EXISTING HARLEM MEER CONDITIONS | 2018 HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 21

NORTHWEST + ACCESSIBILTY AND PATH RESTORATION

HARLEM MEER CENTER H **BOARDWALK AND** SOUTH SHORE





#### HARLEM MEER SHORELINE RESTORATION PHASES HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 22

#### SOUTHEAST COVE AND SHORELINE

SOUTH SHORELINE AND BOARDWALK

#### EAST SHORELINE

- NORTH SHORELINE

d 110th Street ADA accessible ramp adjacent to existing path 5 Realign and regrade path intersection Replace wood and concrete benches with settees East Drive Replace granite block gutter with sloping or vertical granite block curb - Relocate light post Reconstruct stairs Replace asphalt path, full depth Harlem Meer





NORTH



#### **KEY MAP**



#### LEGEND

	Restored Landscape
[]]	Site Boundary
	Bench
¢	Light Post

Relocated Light Post

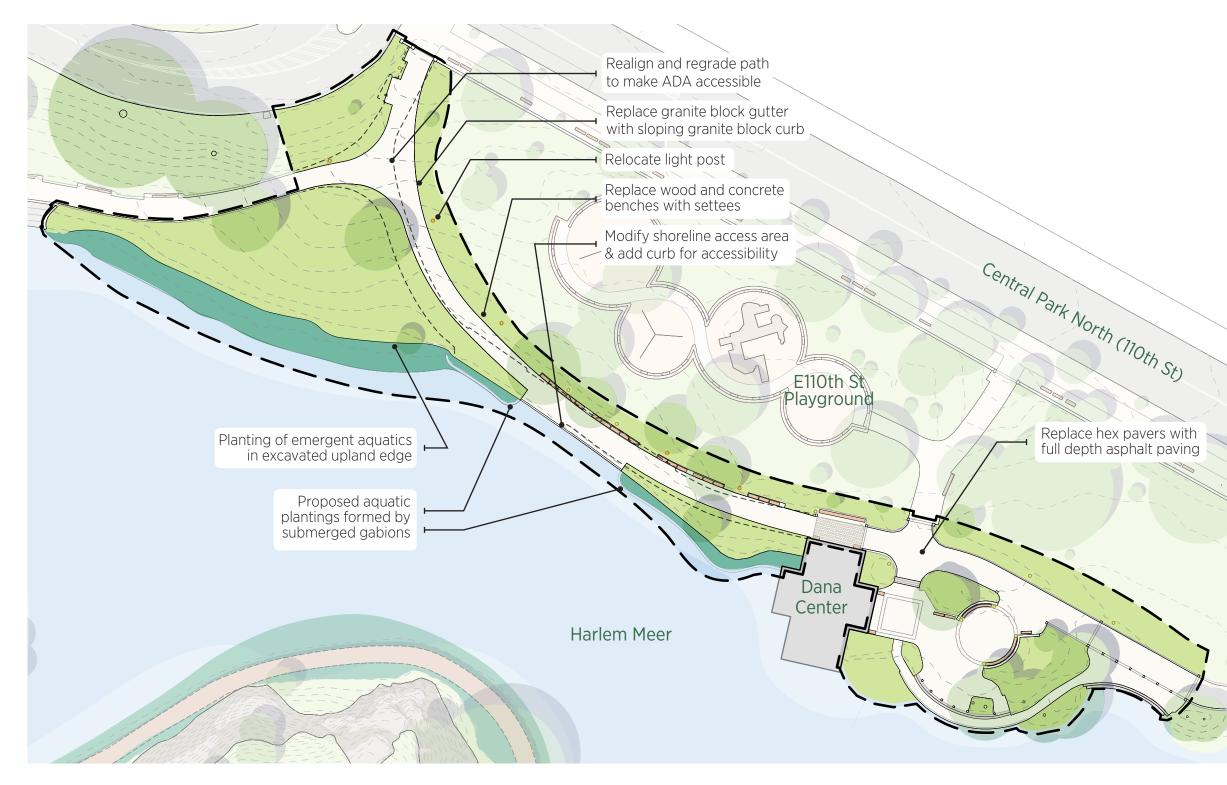
#### **\D**

#### **PROPOSED NORTHWEST SHORELINE PHASE** HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 23





#### NORTHWEST PHASE - ACCESSIBLE PATH SECTION HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 24



**CENTRAL PARK CONSERVANCY** 





#### **KEY MAP**



#### LEGEND

	Restored Landscape
	Aquatic Vegetation
[]]	Site Boundary
	Bench
¢	Light Post
¢	Relocated Light Post

#### **PROPOSED NORTH SHORELINE ENLARGEMENT PLAN** HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 25









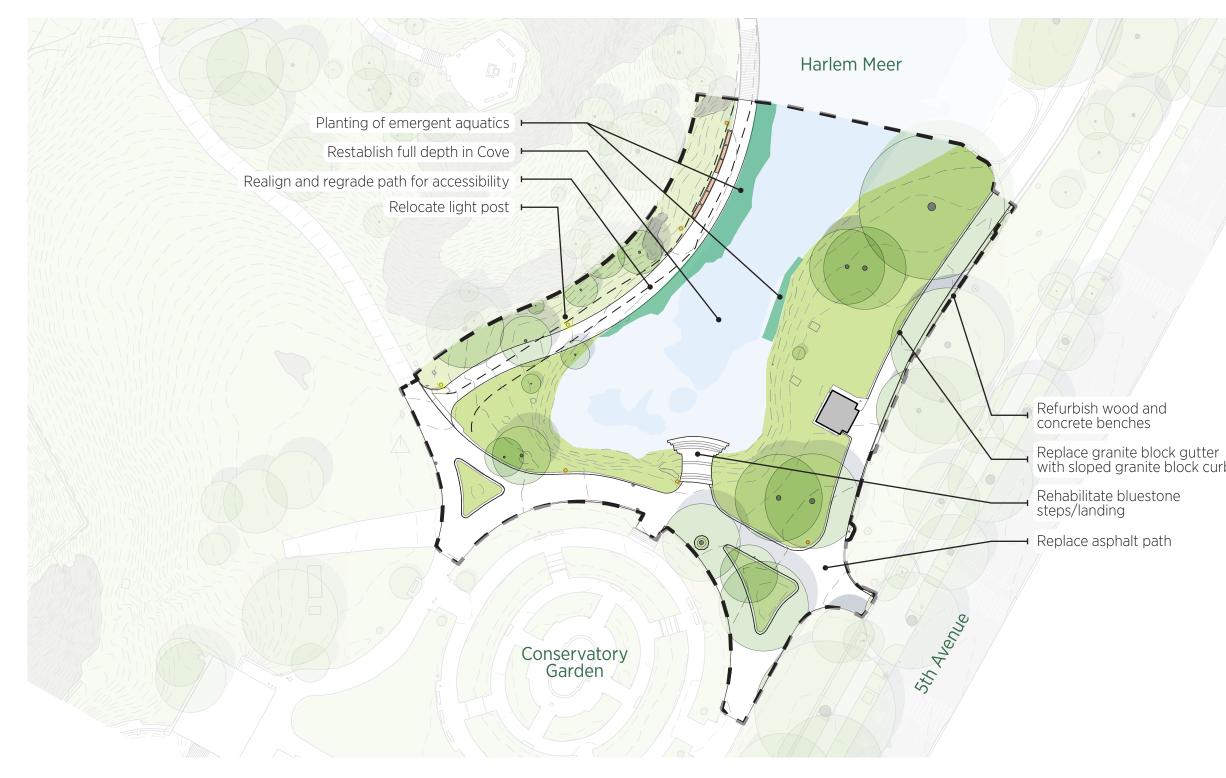
#### **KEY MAP**



#### LEGEND

	Restored Landscape
	Aquatic Vegetation
[]]	Site Boundary
	Bench
¢	Light Post
¢	Relocated Light Post

#### EAST SHORELINE ENLARGEMENT PLAN HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 26









**PROPOSED SOUTHEAST COVE SHORELINE ENLARGEMENT PLAN** 

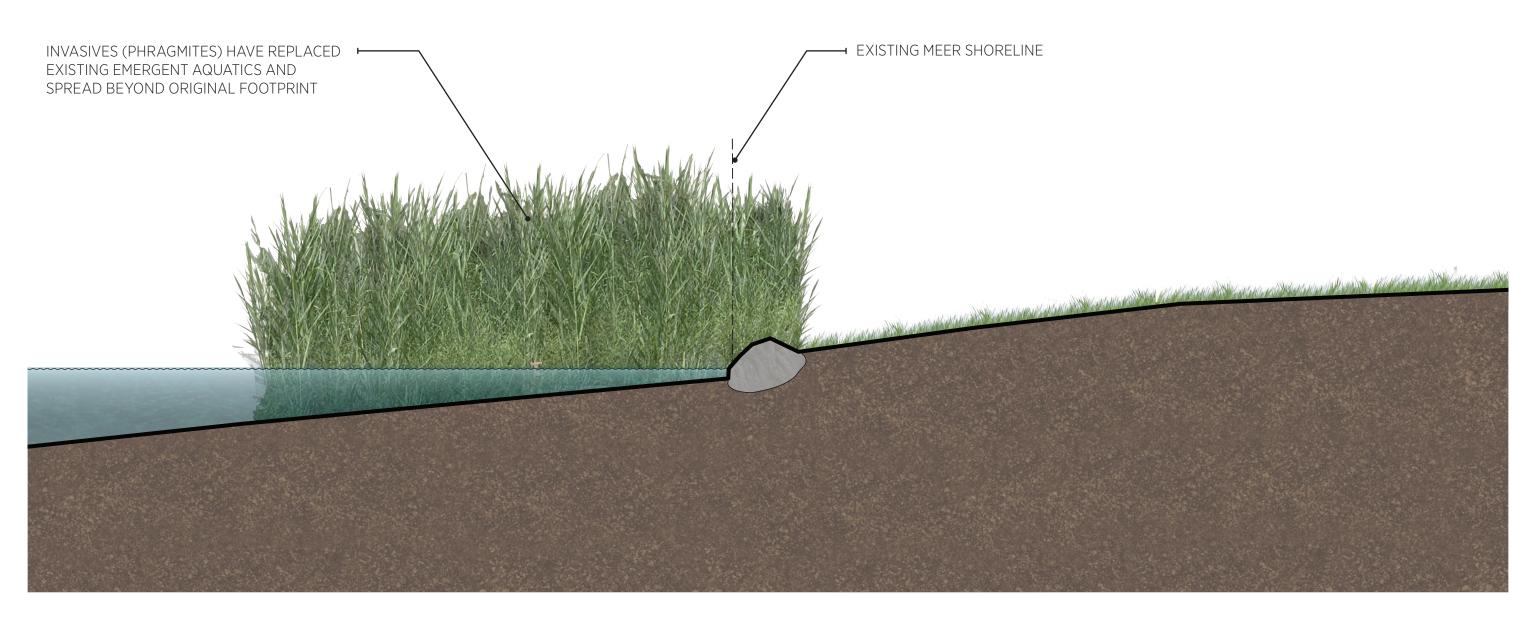
#### **KEY MAP**



#### LEGEND

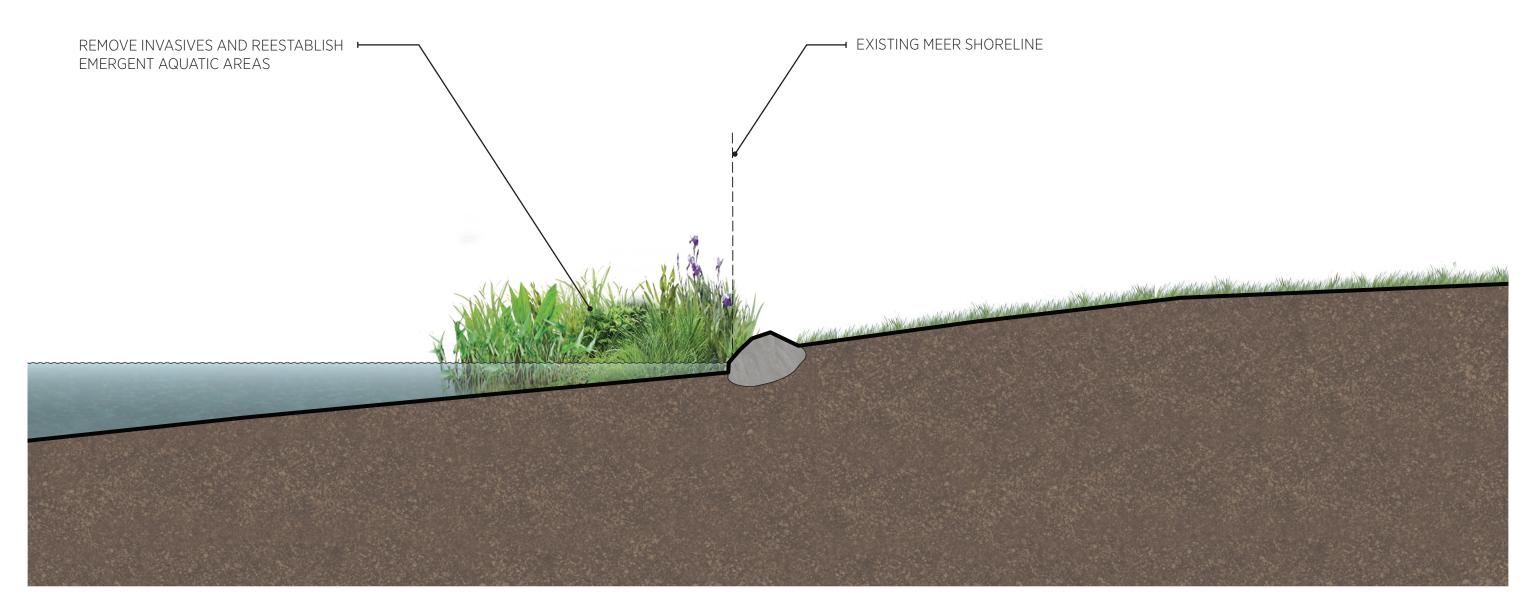
	Restored Landscape	
	Aquatic Vegetation	rb
[]]	Site Boundary	
	Bench	
¢	Light Post	
Ċ.	Relocated Light Post	

# HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 27



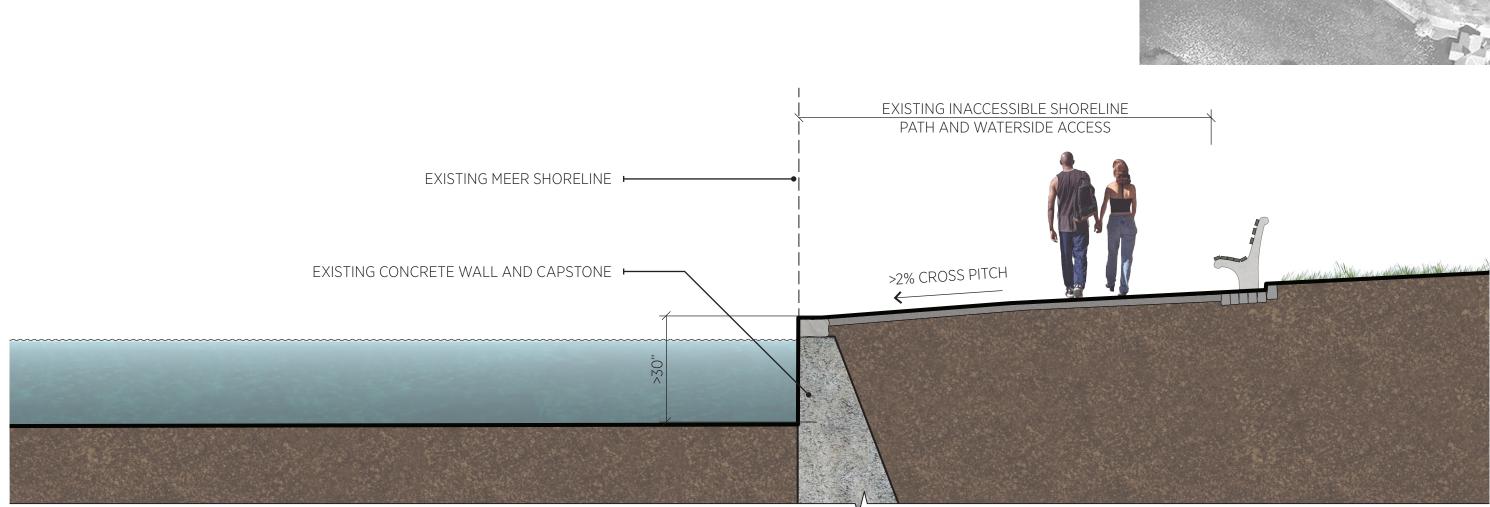


#### **EXISTING SHORELINE TYPICAL SECTION** HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 28





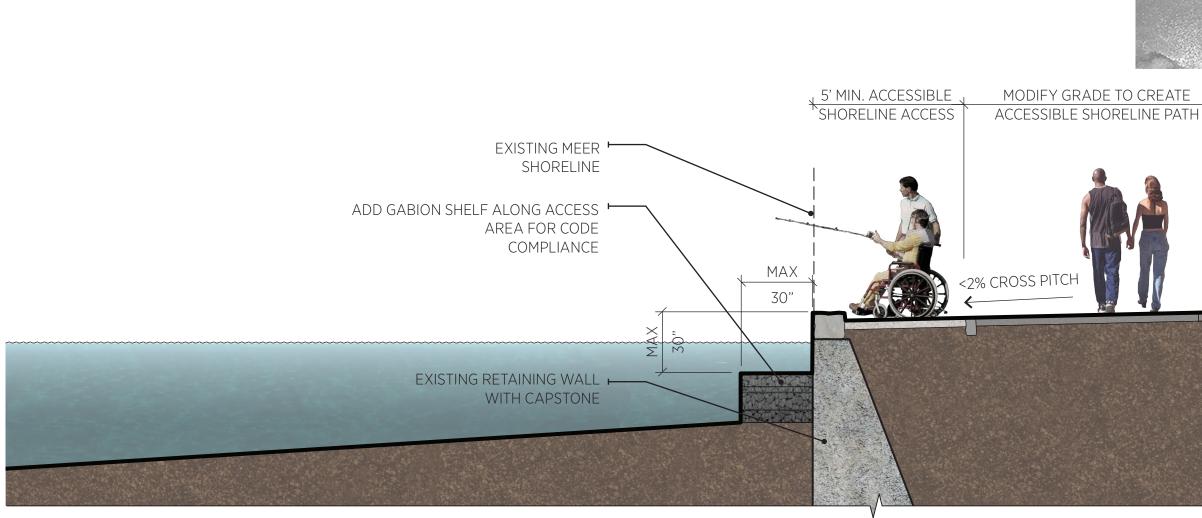
#### PROPOSED SHORELINE TYPICAL SECTION HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 29



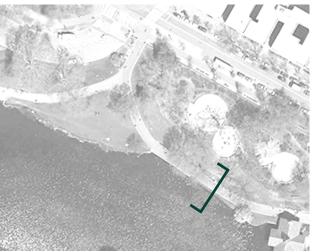


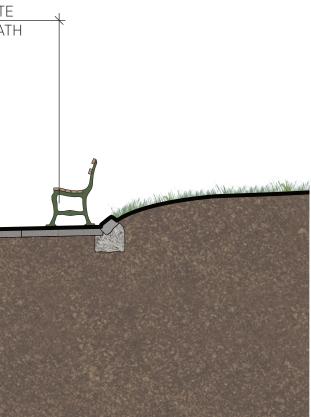


#### **EXISTING NORTH SHORELINE SECTION** HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 30

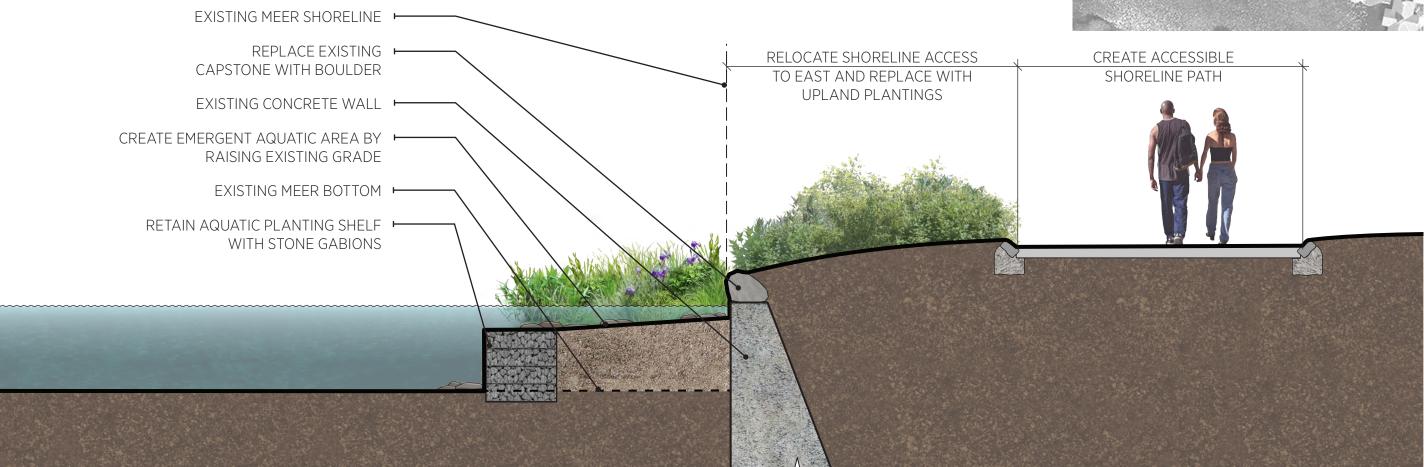








#### **PROPOSED NORTH SHORELINE SECTION** HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 31



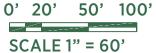




#### **PROPOSED NORTH SHORELINE SECTION** HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 32









PROPOSED SOUTH BOARDWALK AND SHORELINE ENLARGEMENT PLAN

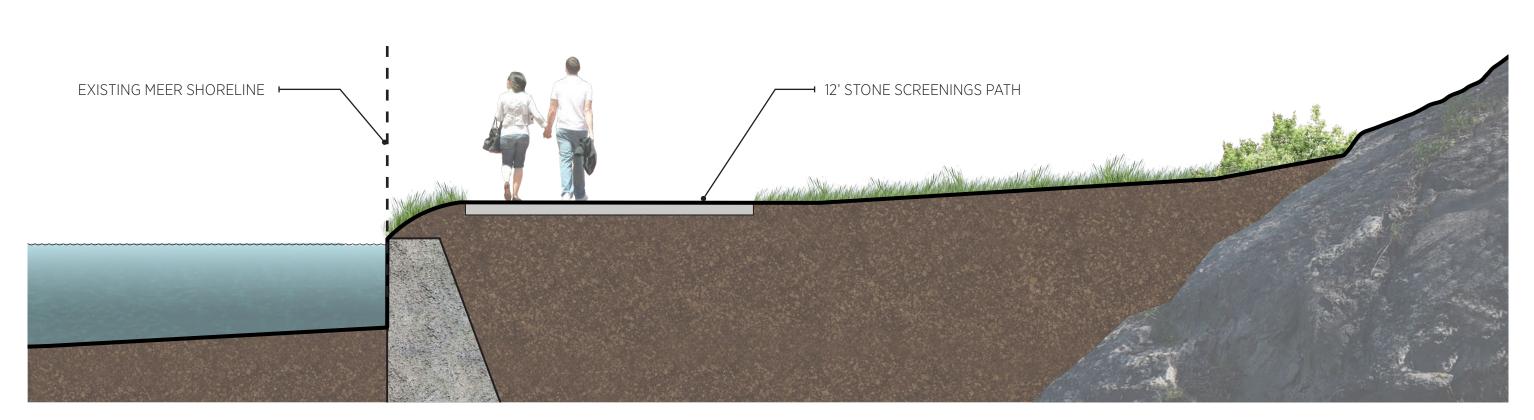
#### **KEY MAP**



#### LEGEND

	Restored Landscape
	Aquatic Vegetation
[]]	Site Boundary
	Bench
¢	Light Post
¢	Relocated Light Post

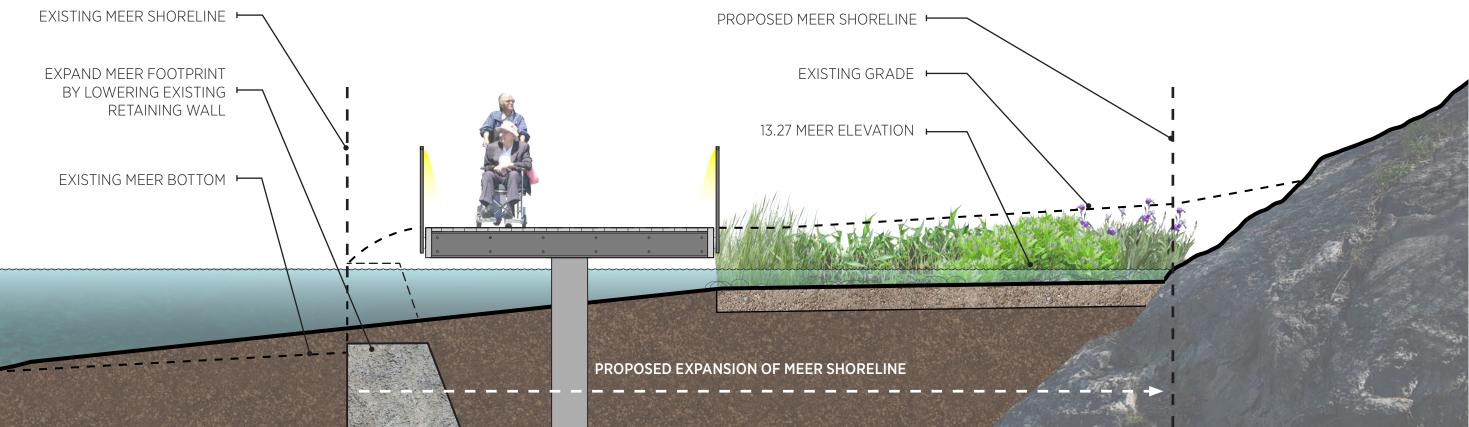
# HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 33







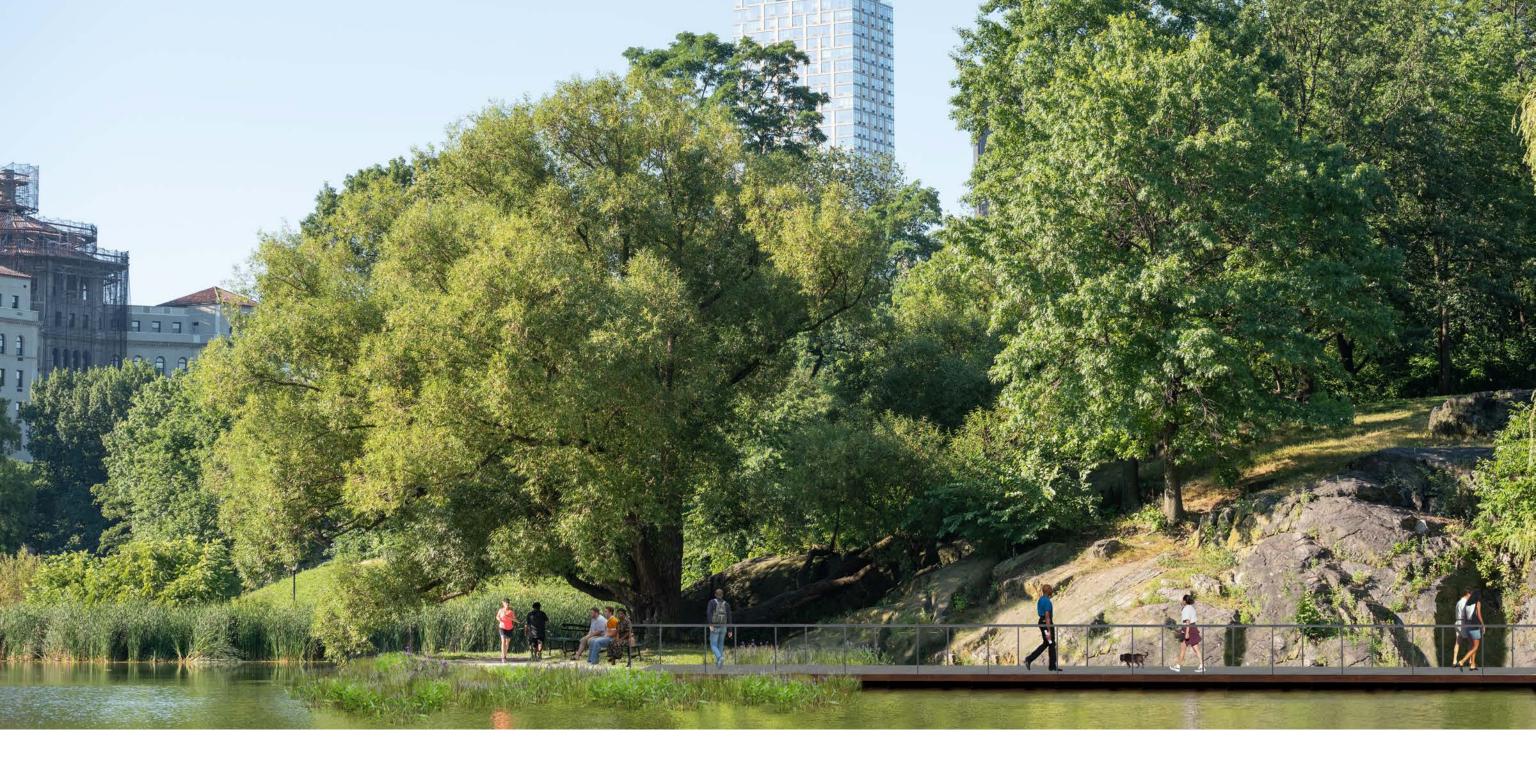
#### **EXISTING SOUTH SHORELINE CONDITION - TYPICAL** HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 34







#### **PROPOSED SOUTH SHORELINE BOARDWALK** HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 35





RENDERED PERSPECTIVE LOOKING SOUTH FROM NORTH SHORELINE

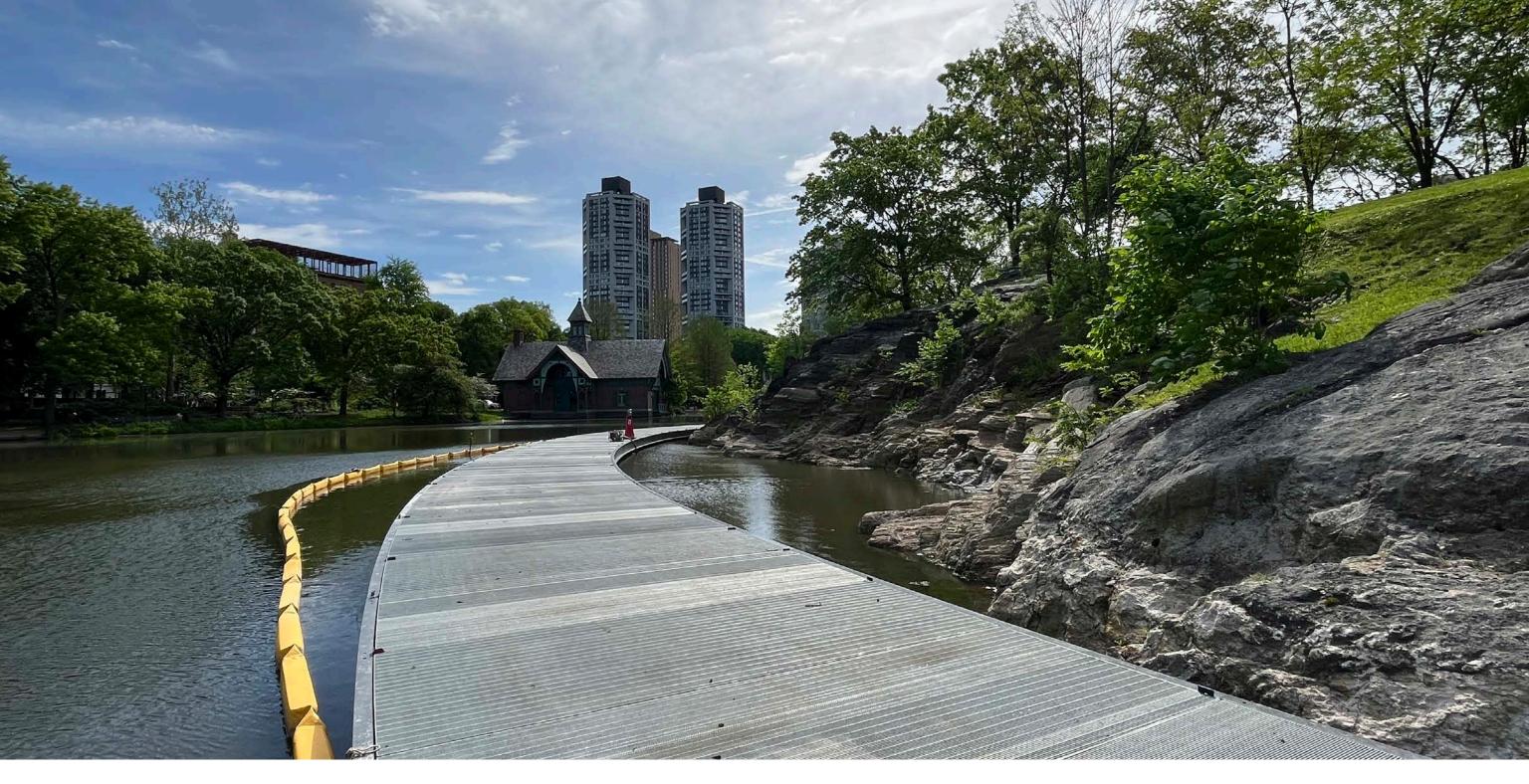
## HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 36





RENDERED PERSPECTIVE LOOKING EAST ALONG BOARDWALK

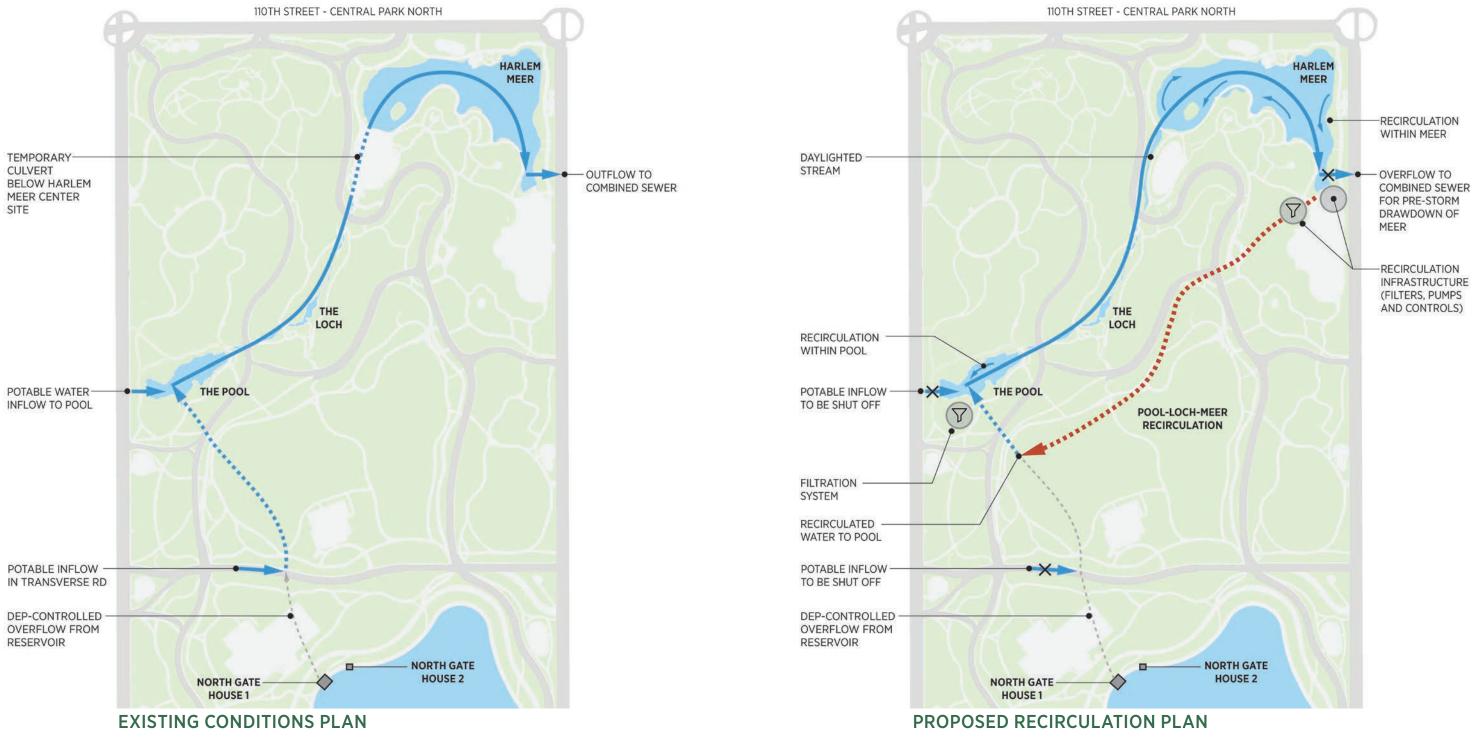
## HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 37





#### HARLEM MEER CENTER BOARDWALK CONSTRUCTION TO DATE HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 38

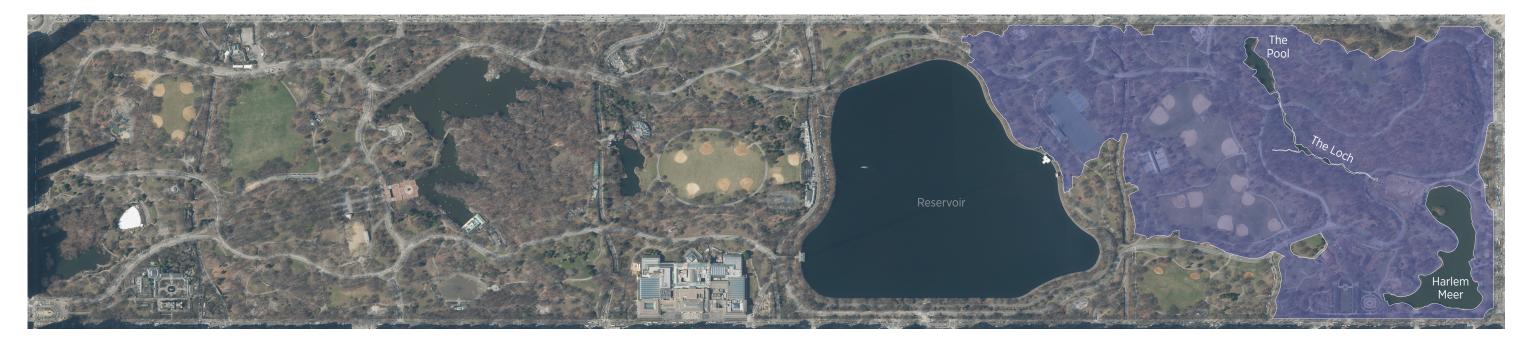
# NORTH END RECIRCULATION SYSTEM







#### **EXISTING AND PROPOSED PLANS** HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 40



#### TOTAL AREA TO BE MANAGED BY RECIRCULATION SYSTEM: 204 ACRES (EXCLUDING AREA OF WATERBODIES)

TOTAL AREA OF CENTRAL PARK (EXCLUDING WATERBODIES): 698 ACRES





#### **PROPOSED WATERSHED PLAN** HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 41

#### **PROJECTED SYSTEM BENEFITS:**

POTABLE WATER SAVINGS PER DAY: 479,000 GALLONS

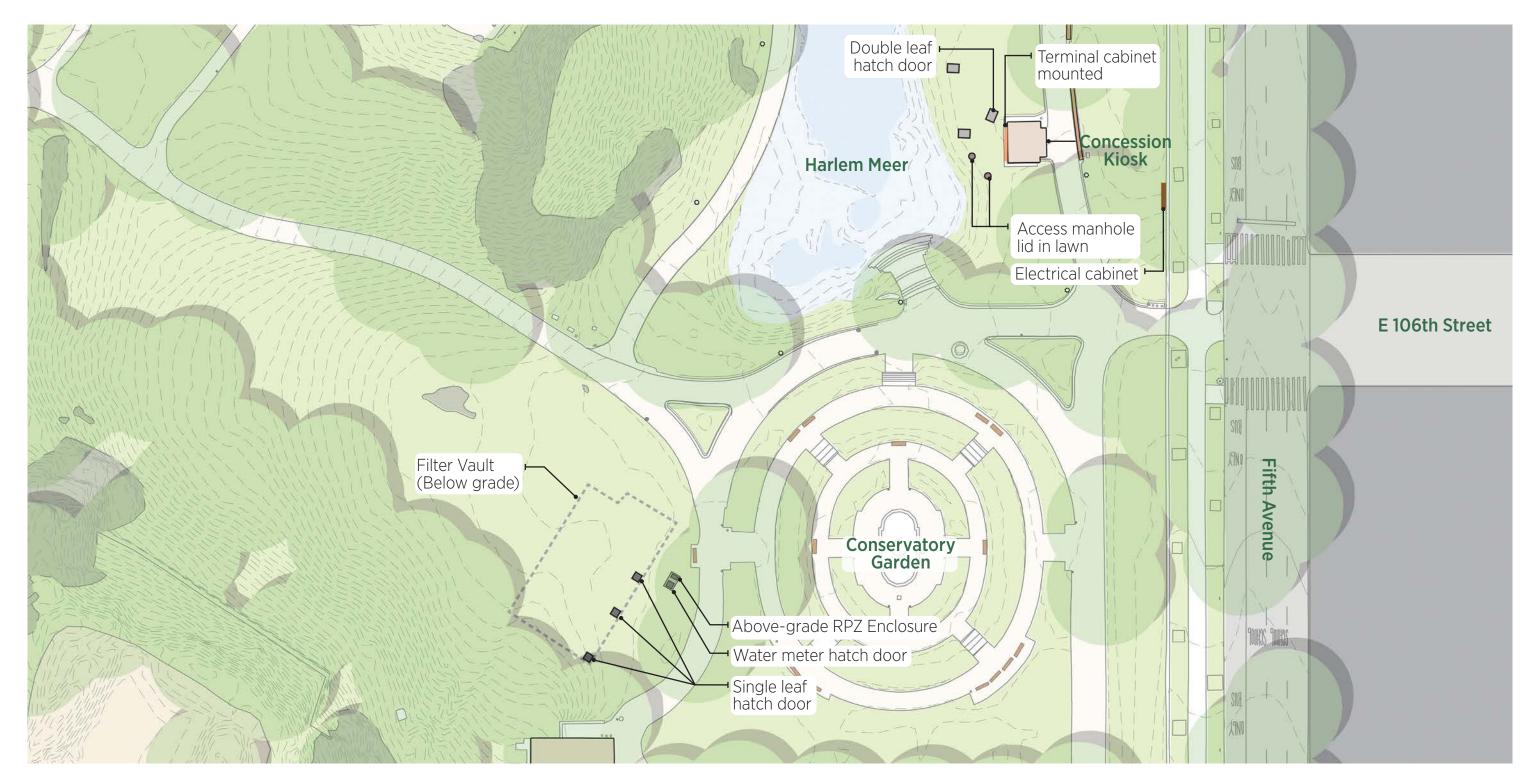
POTABLE WATER SAVINGS PER YEAR: 175 MILLION GALLONS

REDUCED WET WEATHER FLOW TO COMBINED SEWER PER YEAR: 67 MILLION GALLONS (90% REDUCTION)

IMPROVED WATER QUALITY AND REDUCTION OF HARMFUL ALGAL BLOOMS



#### **PROJECTED SYSTEM BENEFITS** HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 42









#### HARLEM MEER | PROPOSED SURFACE FEATURES PLAN HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 43

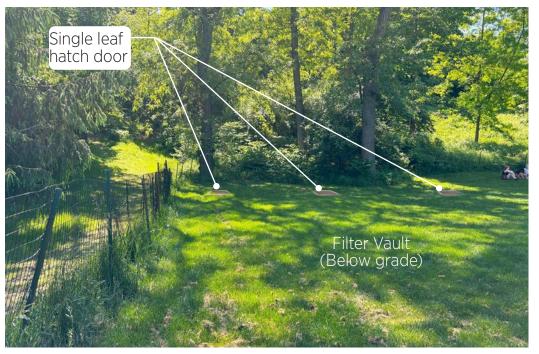








#### 100TH STREET POOL | PROPOSED SURFACE FEATURES PLAN HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 44



FILTER VAULT (PROPOSED RENDERING)



**TERMINAL CABINET (PROPOSED RENDERING)** 



#### **RPZ AND WATER METER (TYPICAL CONDITION)**



#### ELECTRICAL CABINET (PROPOSED RENDERING)

CENTRAL PARK CONSERVANCY

#### **PROPOSED SURFACE FEATURES** HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 45





#### COMPLETED ACCESSIBLE RAMP AT DAIRY HARLEM MEER SHORELINE RESTORATION & RECIRCULATION | JULY 2024 | 47