

# BENNING STODDERT RECREATION CENTER AND NORTH MICHIGAN PARK STORMWATER RETROFIT PROJECTS

## PUBLIC STAKEHOLDER MEETING

---

January 31st, 2024

**Elaine Vidal**

Environmental Protection Specialist  
Watershed Protection Division  
Department of Energy & Environment  
Elaine.vidal@dc.gov

**Peter Nohrden**

Planning and Design  
Capital Projects  
Department of Parks and Recreation  
Peter.nohrden@dc.gov



GOVERNMENT OF THE  
DISTRICT OF COLUMBIA  
MURIEL BOWSER, MAYOR

# AGENDA

---

- Project Background and Objectives
- **Benning Stoddert:**
  - Existing Conditions
  - Concept Designs
  - Community Feedback
- **North Michigan Park:**
  - Existing Conditions
  - Concept Designs
  - Community Feedback
- Project Timeline
- Additional Questions/Discussion

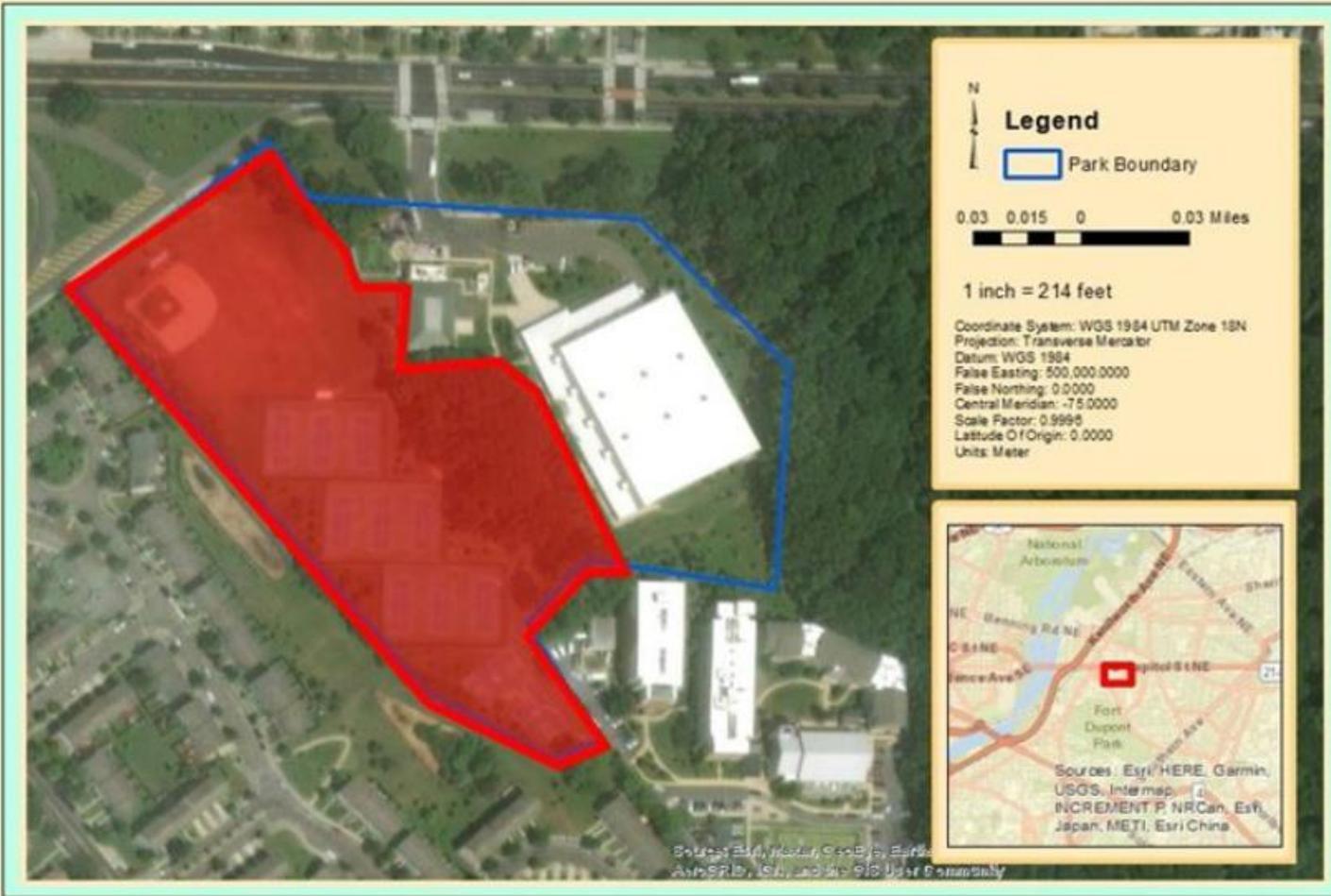
# Background

- DOEE oversees the design and construction of low impact development (LID) stormwater retrofits at various locations around the District including: federal parkland, District parkland and in the public right of way

# Objectives

- To improve water quality in the Anacostia and Potomac Rivers for the benefit of District residents, visitors, wildlife and the environment, while providing high quality outdoor recreational space and facilities for children and adults to learn, play, and connect with nature
- To reduce the stormwater pollutants that enter the local waters (i.e., rivers, streams, estuaries) of the District, as required under the current applicable [EPA National Pollutant Discharge Elimination System \(NPDES\) permit for the District's municipal separate storm sewer system \(MS4\)](#)

# Benning Stoddert Recreation Center



PROJECT LOCATIONS: 100 Stoddert Place, SE

# North Michigan Park Recreation Center

## Legend

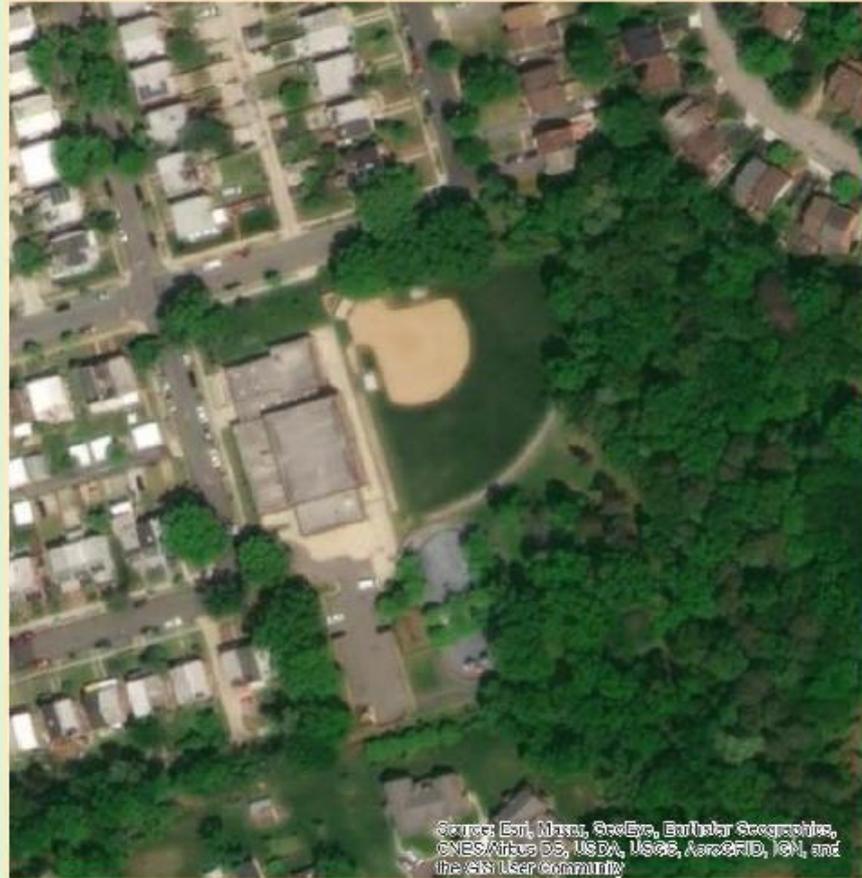
World Street Map



0 0.0075 0.015 0.03 0.045 0.06 Miles



1 inch = 0.03 miles  
Coordinate System: Lambert Conformal Conic  
Central Meridian: 122°00'W  
Latitude of Origin: 40°33'N  
False Easting: 200000.00  
False Northing: 200000.00



Address: 1333 Emerson Street NE

# BACKGROUND

---

1) WHAT IS STORMWATER AND WHY DO WE TREAT IT?

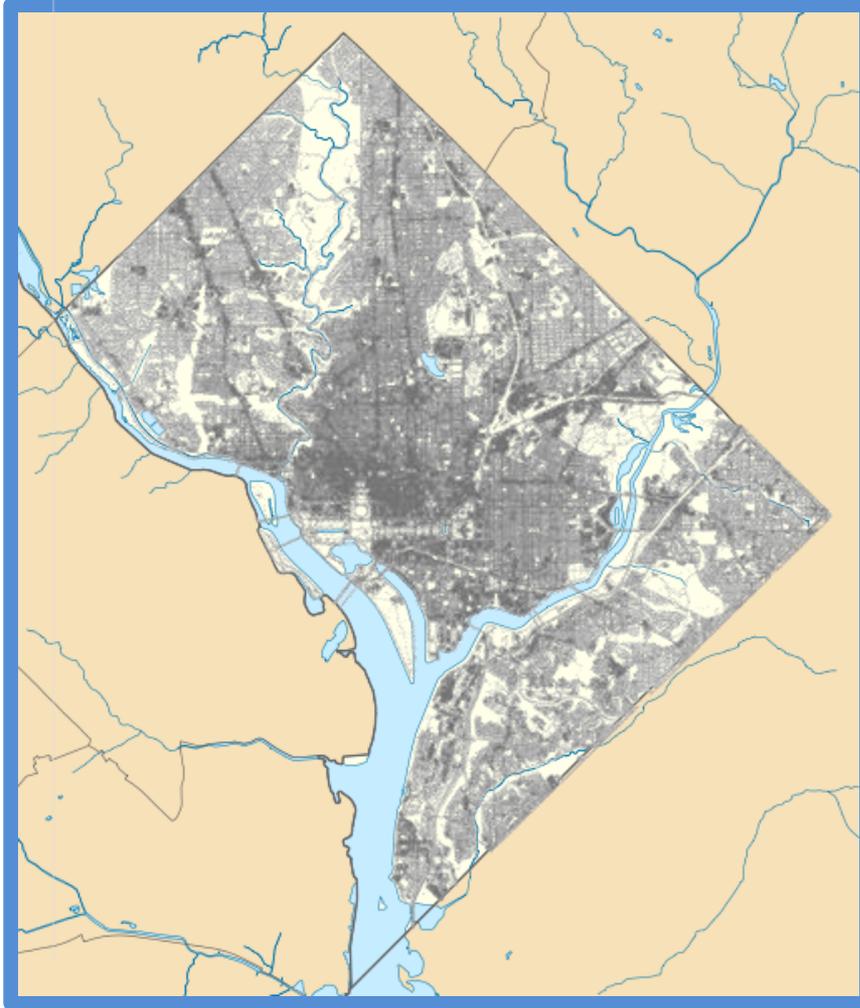
2) WHAT ARE SOME SOLUTIONS?

# PROBLEM OF STORMWATER POLLUTION



# DISTRICT OF COLUMBIA LAND USE

---



Total Area  
68.3 mi<sup>2</sup>

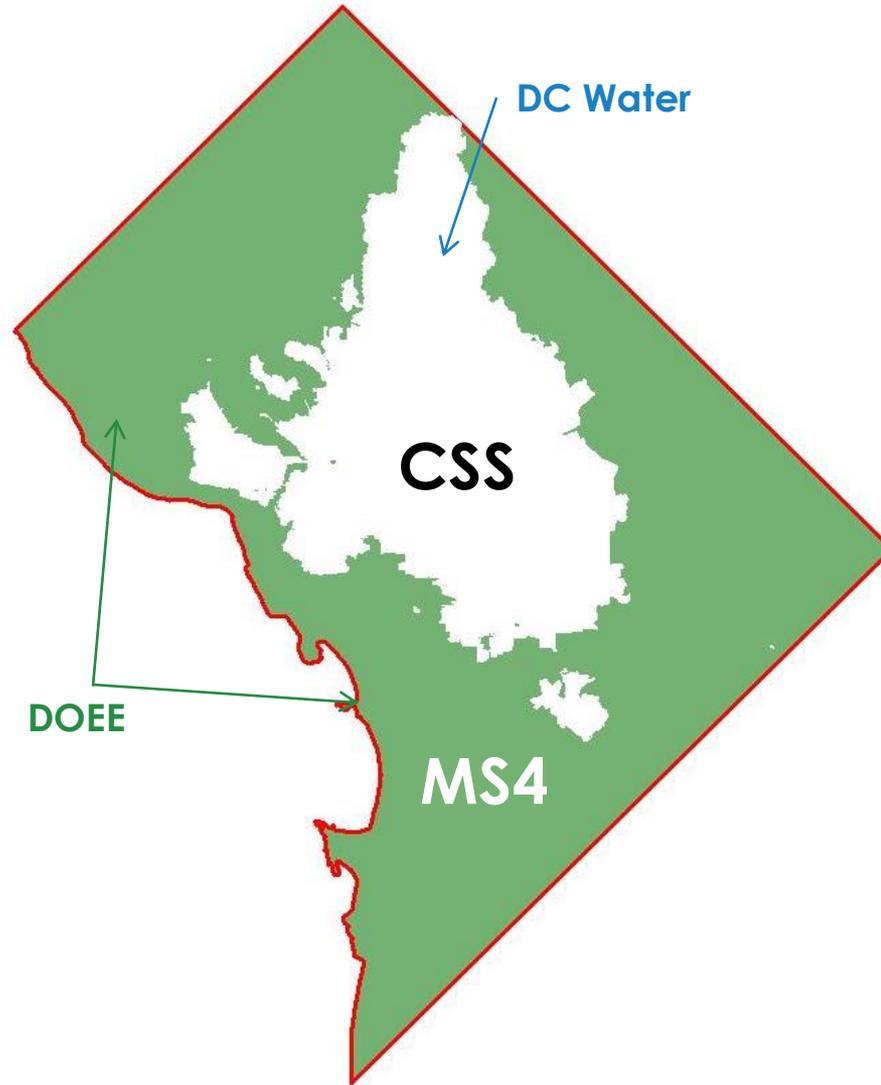
Land Area  
61.3 mi<sup>2</sup>

Impervious Area  
26.6 mi<sup>2</sup>  
*Approx 43%  
of Land Area*

*A single 1.2 inch storm falling on this area produces about 525 million gallons of stormwater runoff.*

# DC'S RESTORATION APPROACHES

---



# RESTORATION APPROACHES

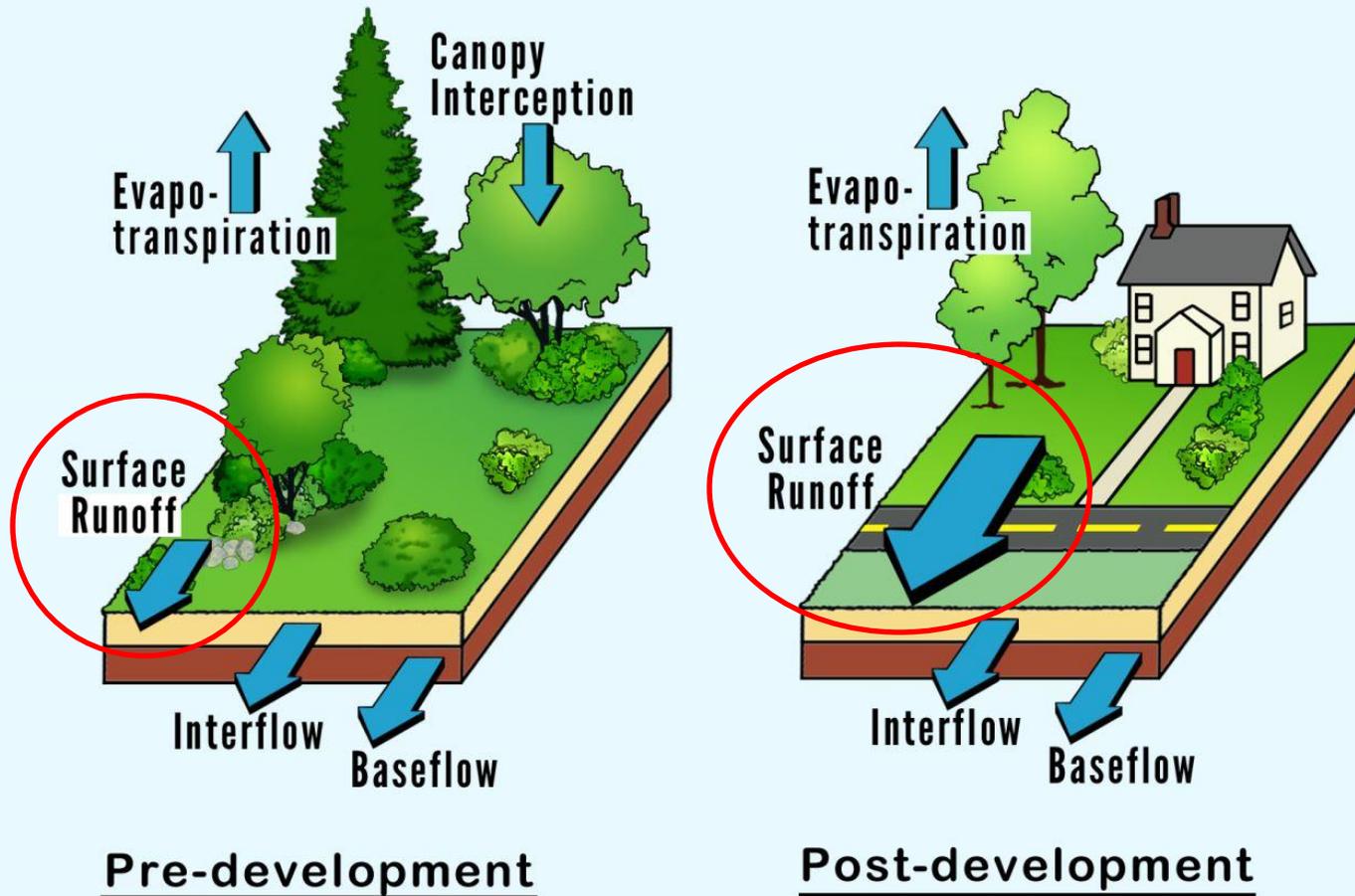
---

## GREEN STORMWATER INFRASTRUCTURE

Most stormwater practices all work the same way: “they collect stormwater runoff and use or mimic natural processes that result in the infiltration, evapotranspiration or use of stormwater in order to protect water quality and associated aquatic habitat” (EPA).

*Slow it down, Spread it Out, Soak it In !*

Figure 1.1 Water Balance at a Developed and Underdeveloped Site  
(Source: Schueler, 1987)



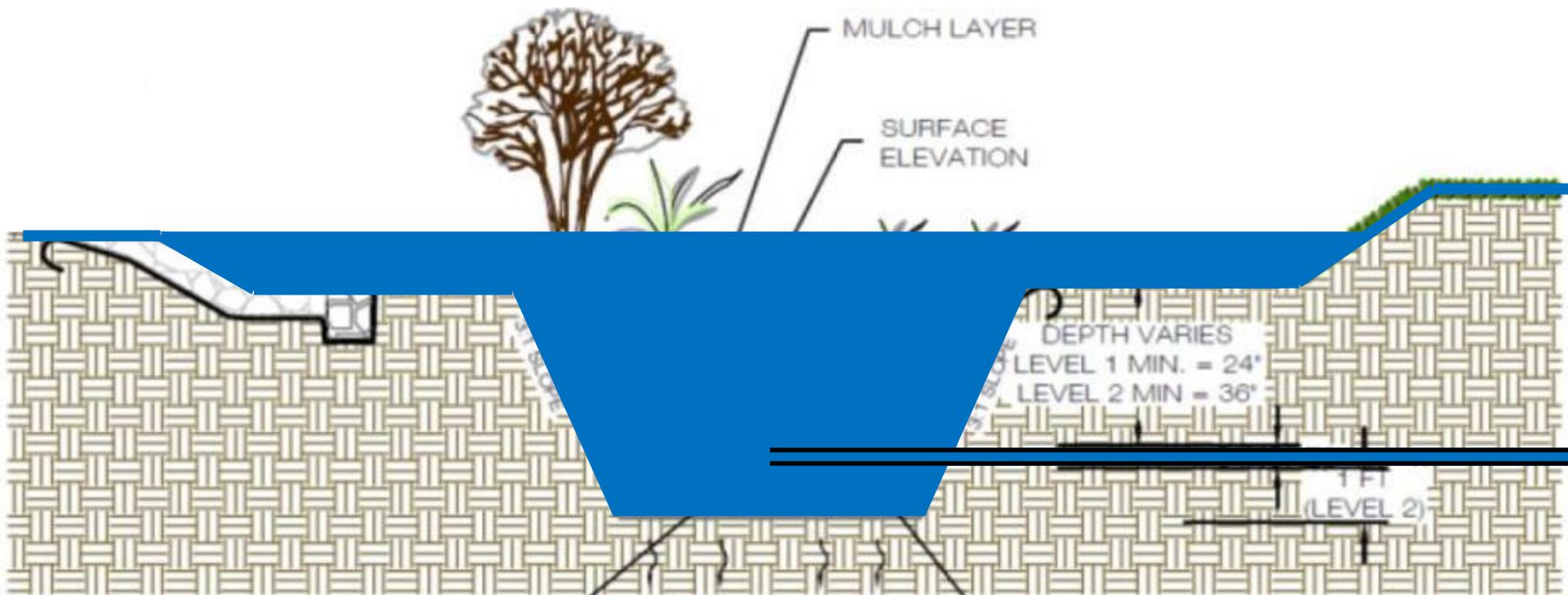
Surface runoff is minimal in an undeveloped site, but dominates the water balance at a highly impervious site.

# BIORETENTION

---



# BIORETENTION: HOW IT WORKS



# BIOSWALES

---

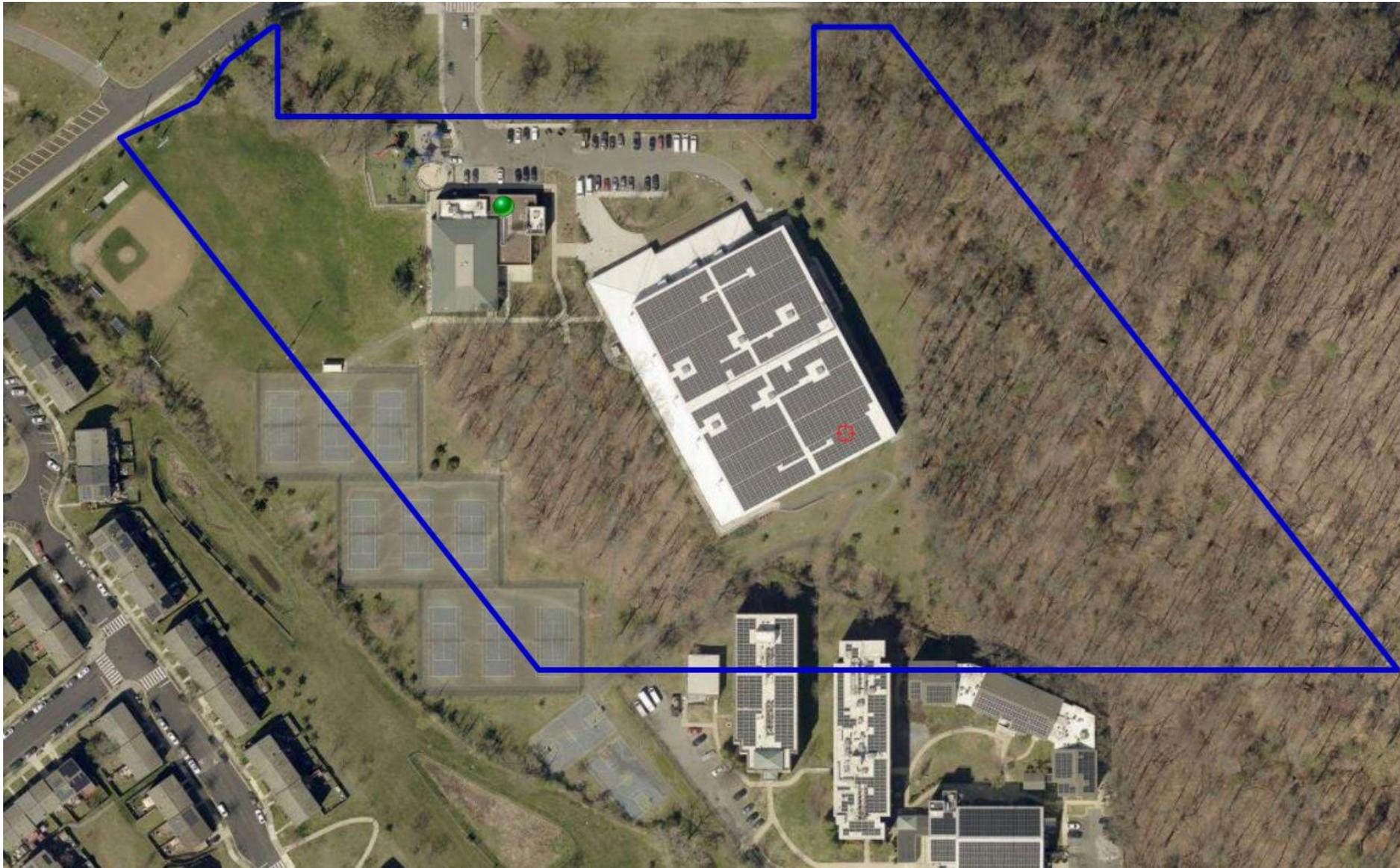


# PROJECT OBJECTIVES

---

- Treat maximum amount of stormwater from the site in the most cost effective way
- Create and enhance wildlife habitat and biodiversity
- Development of a community amenity
- Educational opportunities

# EXISTING CONDITIONS: Benning Stoddert Recreation Center



# EXISTING CONDITIONS: Benning Stoddert Recreation Center

---



# EXISTING CONDITIONS: Benning Stoddert Recreation Center

---



# EXISTING CONDITIONS: Benning Stoddert Recreation Center

---



# EXISTING CONDITIONS: Benning Stoddert Recreation Center



# EXISTING CONDITIONS: Benning Stoddert Recreation Center

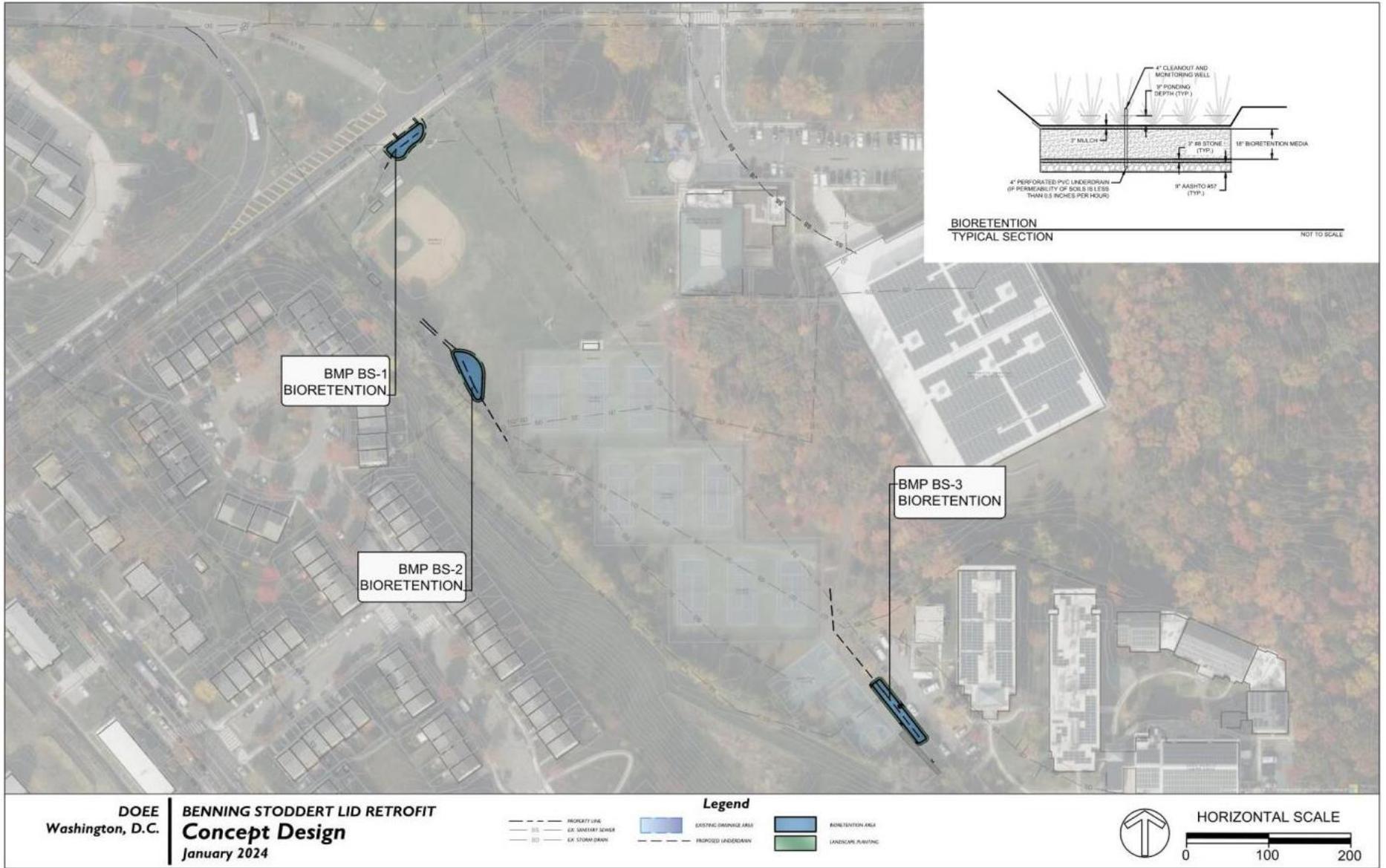


# EXISTING CONDITIONS: Benning Stoddert Recreation Center

---



# PROJECT DESIGNS: Benning Stoddert Recreation Center



# PROJECT DESIGNS: Benning Stoddert Recreation Center



**30% CONCEPT DRAWINGS**

**Biohabitats**  
 The Stubbs Building 2001 Copper Park Road  
 Baltimore, MD 21211 / ph: 410.554.0256  
 fx: 410.554.0680 / www.biohabitats.com  
 Bureau of Planning & Design / Maryland Department of General Services

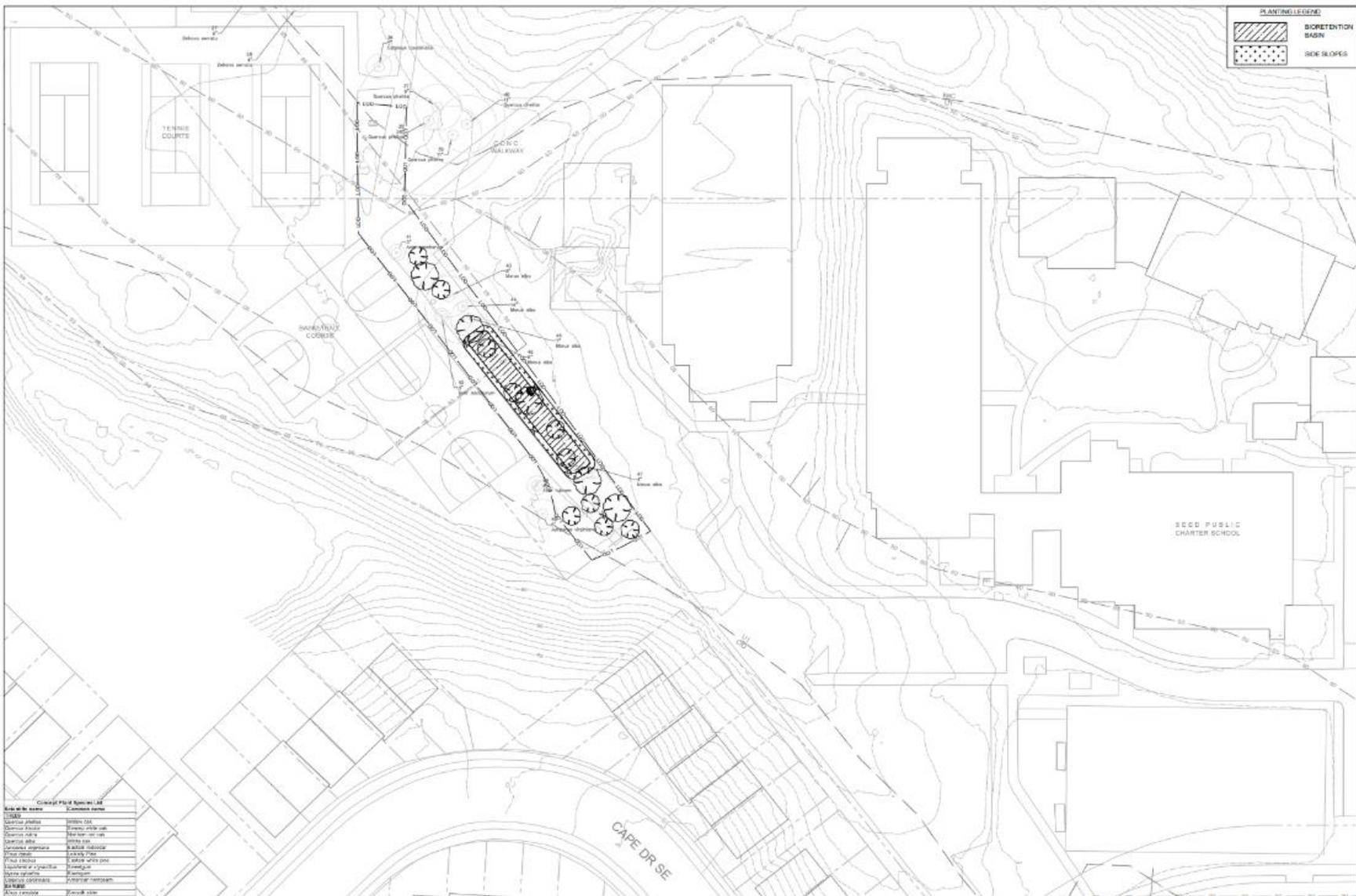
**BENNING STODDERT LID RETROFITS**

**PLANTING PLAN**

PROJECT NO.	2014-03	SCALE	1" = 30'
DATE		BY	WPK/BJS
		CHECKED BY	
<b>L150</b>			

Re-use of Documents: This document, and the ideas and designs incorporated herein, as an instrument of Professional Service, is the property of Biohabitats, Inc. and is not to be used in whole or in part, for any other project without the written authorization of Biohabitats, Inc.

# PROJECT DESIGNS: Benning Stoddert Recreation Center



**PLANNING LEGEND**

	DISCRETIONARY BASIN
	ROCK SLOPES

**CLIENT**  
 ELIANE VEDAL ENVIRONMENTAL PROTECTION SPECIALIST  
 WATERSHED PROTECTION DIVISION  
 DEPARTMENT OF ENERGY AND ENVIRONMENT  
 GOVERNMENT OF THE DISTRICT OF COLUMBIA  
 1205 FIRST STREET, NE 5TH FLOOR  
 WASHINGTON DC 20002

DATE: 08/25/2016

30% CONCEPT DRAWINGS



The Hubbs Building, 2001 Crystal Park Blvd  
 Bethesda, MD 20814 / ph: 410-554-0036  
 fx: 410-554-0188 / www.biohabitats.com  
 Boston de Land et Ingénierie Environnementale

**BENNING STODDERT  
 LID RETROFITS**

**Concept Plan Symbols**

Symbol	Description
	10' sidewalk
	20' sidewalk
	30' sidewalk
	40' sidewalk
	50' sidewalk
	60' sidewalk
	70' sidewalk
	80' sidewalk
	90' sidewalk
	100' sidewalk
	110' sidewalk
	120' sidewalk
	130' sidewalk
	140' sidewalk
	150' sidewalk
	160' sidewalk
	170' sidewalk
	180' sidewalk
	190' sidewalk
	200' sidewalk
	210' sidewalk
	220' sidewalk
	230' sidewalk
	240' sidewalk
	250' sidewalk
	260' sidewalk
	270' sidewalk
	280' sidewalk
	290' sidewalk
	300' sidewalk
	310' sidewalk
	320' sidewalk
	330' sidewalk
	340' sidewalk
	350' sidewalk
	360' sidewalk
	370' sidewalk
	380' sidewalk
	390' sidewalk
	400' sidewalk
	410' sidewalk
	420' sidewalk
	430' sidewalk
	440' sidewalk
	450' sidewalk
	460' sidewalk
	470' sidewalk
	480' sidewalk
	490' sidewalk
	500' sidewalk

# PROJECT DESIGNS: Benning Stoddert Recreation Center



# PROJECT DESIGNS: Benning Stoddert Recreation Center



# PROJECT DESIGNS: Benning Stoddert Recreation Center



# EXISTING CONDITIONS: North Michigan Park



# EXISTING CONDITIONS: North Michigan Park



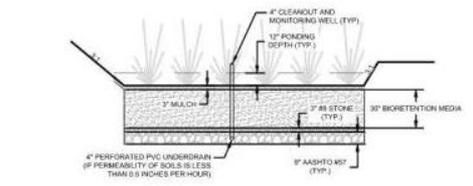
# EXISTING CONDITIONS: North Michigan Park



# EXISTING CONDITIONS: North Michigan Park



# PROJECT Designs: North Michigan Park

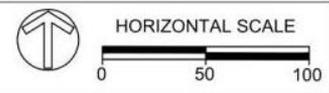


**BIORETENTION**  
TYPICAL SECTION NOT TO SCALE

**DOEE** | **NORTH MICHIGAN LID RETROFIT**  
Washington, D.C. | **Concept Design**  
January 2023

**Legend**

PROPERTY LINE	EXISTING DRAINAGE AREA	BIORETENTION AREA
EX. SIDEWALK	PROPOSED UNDERDRAIN	LANDSCAPE PLANTING
EX. STORM DRAIN		





# PROJECT Designs: North Michigan Park

---



# PROJECT Designs: North Michigan Park

---



# PROJECT Designs: North Michigan Park

---



# PROJECT TIMELINE

---

- September 2023: contract awarded
- October 2023 – January 2024: field assessment (topographic survey, geotechnical investigations etc.), interagency coordination
- January 2024 – June 2024: design development
- 3 public meetings:
  - Concept designs on 1/31/2024
  - Semi-final designs April 2024
  - Final designs: TBD
  - Construction kickoff meeting (timeline): TBD

# Contact and Additional Information

---

## DOEE:

**Elaine Vidal**

Environmental Protection Specialist

Watershed Protection Division

Department of Energy & Environment

Elaine.vidal@dc.gov

## DPR:

**Peter Nohrden**

Planning and Design

Capital Projects

Department of Parks and Recreation

Peter.nohrden@dc.gov

## Project Websites:

**Benning Stoddert:** <https://doee.dc.gov/node/1699081>

**North Michigan Park:** <https://doee.dc.gov/node/1699066>



GOVERNMENT OF THE  
DISTRICT OF COLUMBIA  
MURIEL BOWSER, MAYOR

# FAQs

- How do we find our project sites?
  - Enthusiastic landowners/partners/stakeholders!
  - Eligibility for funding sources
  - Large areas of untreated impervious cover
  - More impactful locations
- What can I do?
  - RiverSmart Homes
    - Rain Gardens
    - Permeable Pavers
    - Rain Barrels
    - Tree Planting
    - “BayScaping”



<https://www.riversmarthomes.org/>

# QUESTIONS

