BENNING STODDERT RECREATION CENTER AND NORTH MICHIGAN PARK STORMWATER RETROFIT PROJECTS

PUBLIC STAKEHOLDER MEETING

April 10th, 2024

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AGENDA

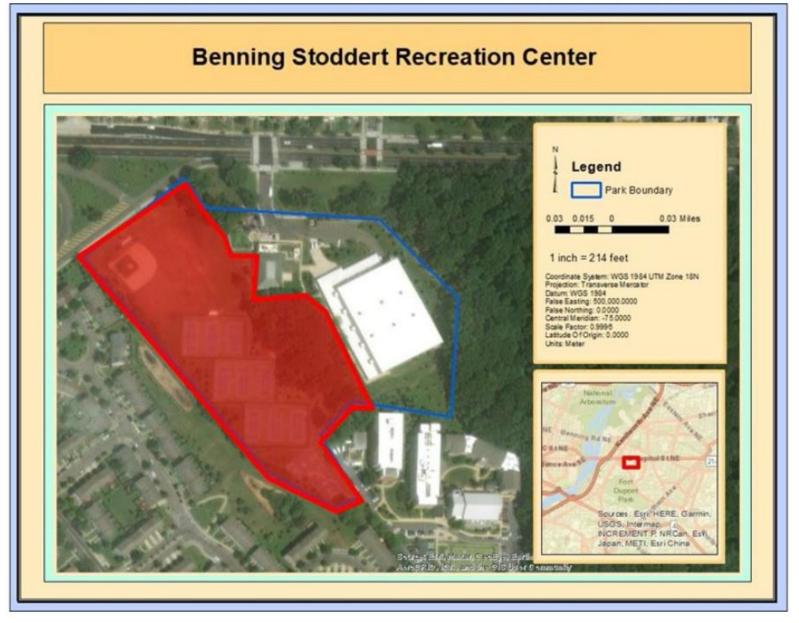
- Project Background and Objectives
- Benning Stoddert:
 - Existing Conditions
 - Semi-Final Designs
 - Community Feedback
- North Michigan Park:
 - Existing Conditions
 - Semi-Final Designs
 - Community Feedback
- Project Timeline
- Additional Questions/Discussion

Background

- DOEE collaborates with sister agencies on the design and construction of low impact development (LID) stormwater retrofits at various locations around the District including:
 - Federal parkland
 - District parkland
 - 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 <u>EPA National Pollutant Discharge</u> <u>Elimination System (NPDES) permit for the District's municipal</u> <u>separate storm sewer system (MS4)</u>



PROJECT LOCATIONS: 100 Stoddert Place, SE



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





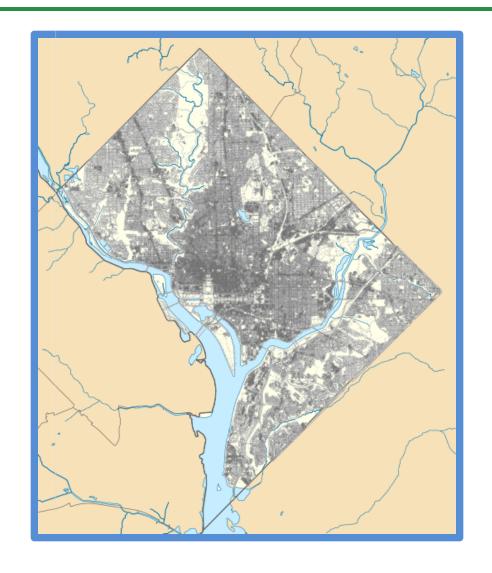








DISTRICT OF COLUMBIA LAND USE



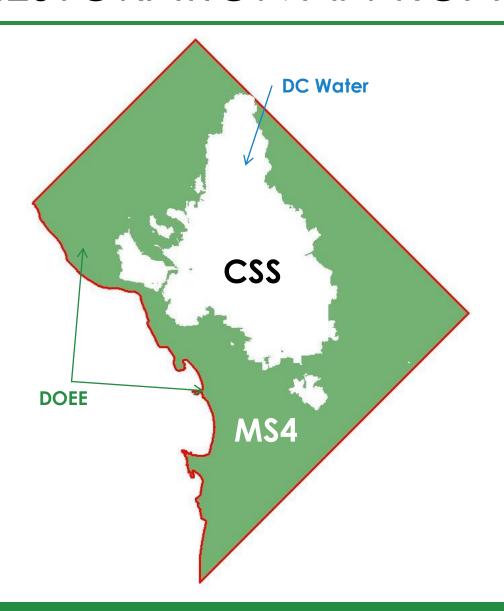
Total Area 68.3 mi²

Land Area 61.3 mi²

Impervious Area
26.6 mi²
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



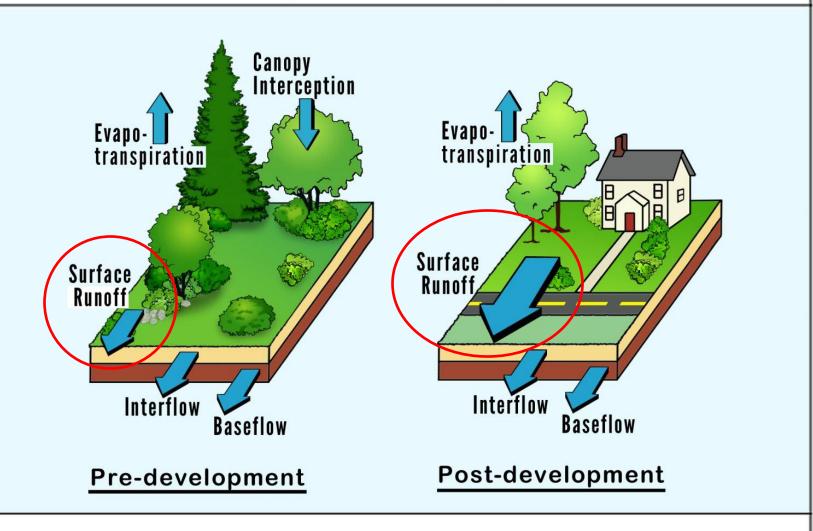
RESTORATION APPROACHES

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)



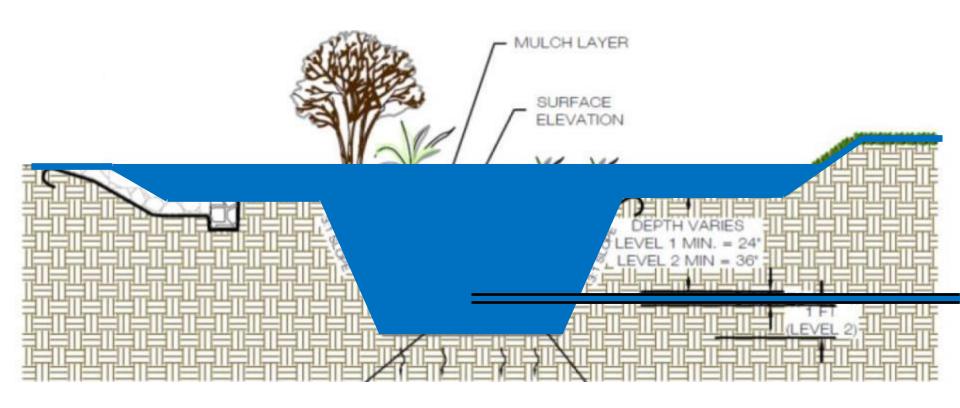
Surface runoff is minimal in an undeveloped site, but dominates the water balance at a highly impervious site.

BIORETENTION





BIORETENTION: HOW IT WORKS



BIOSWALES



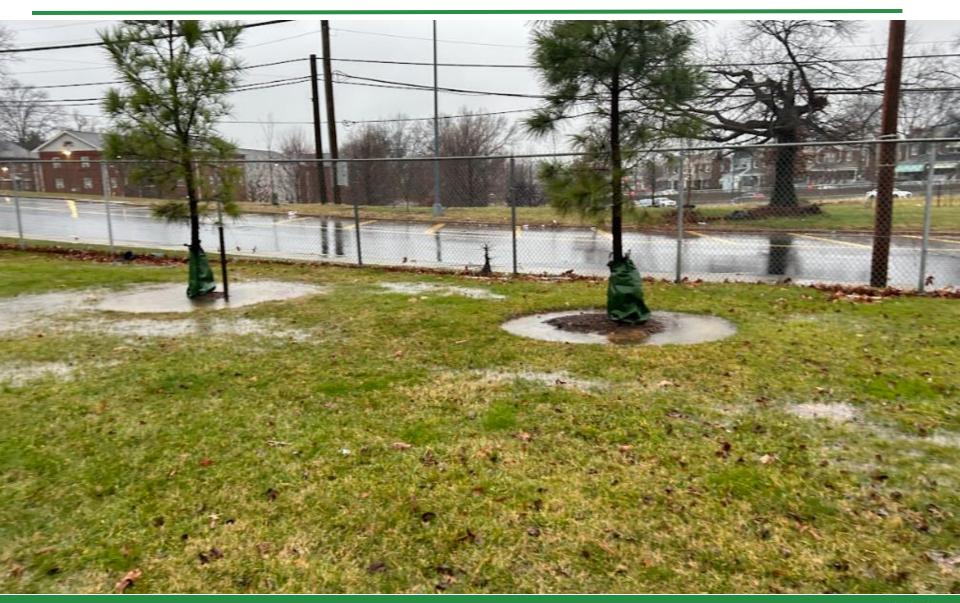


PROJECT OBJECTIVES

- 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





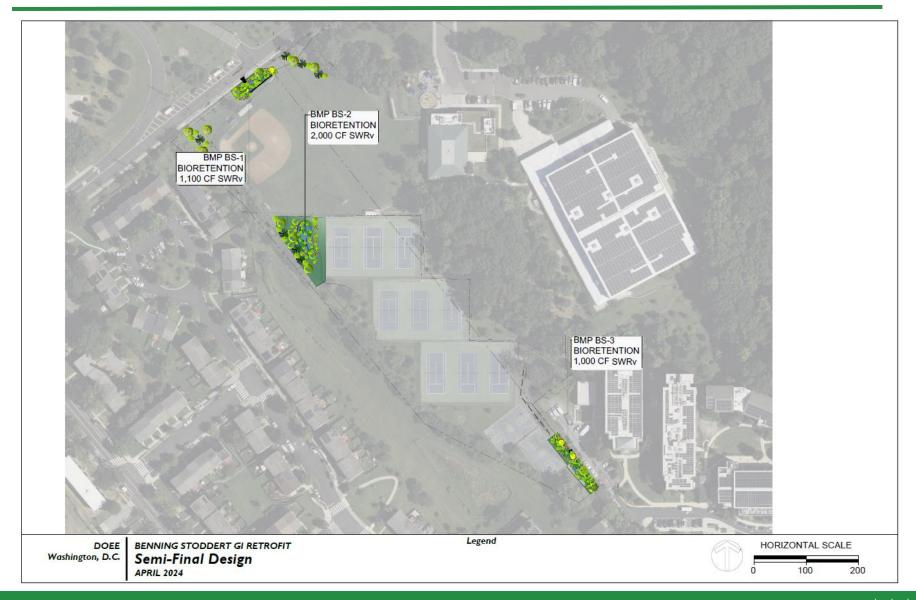




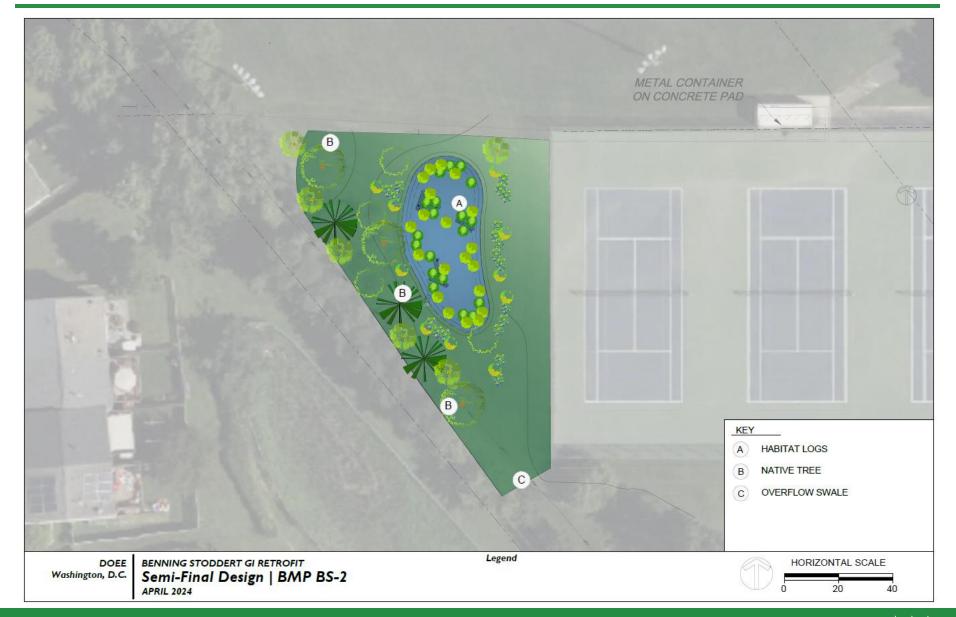


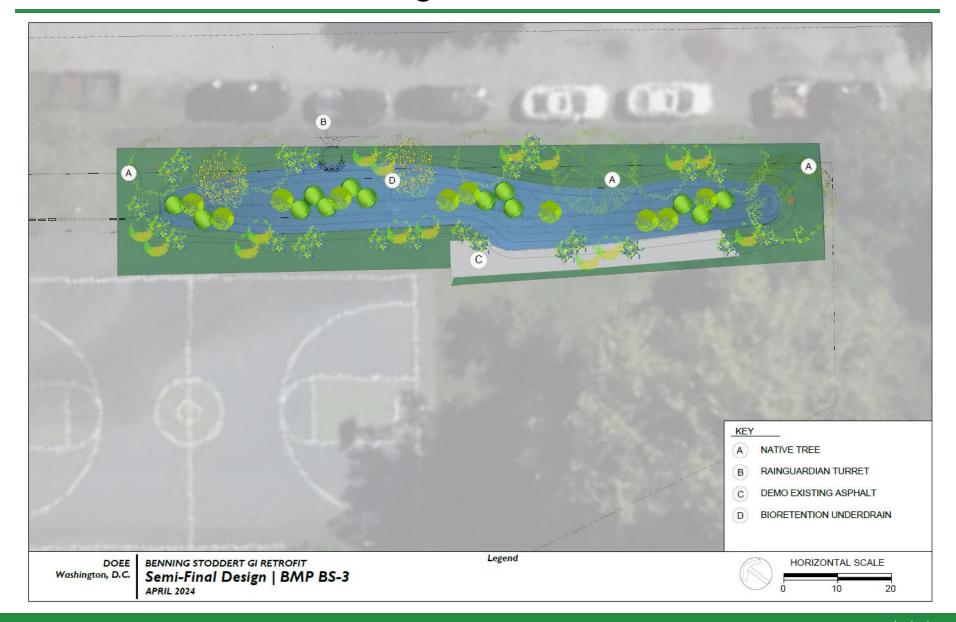












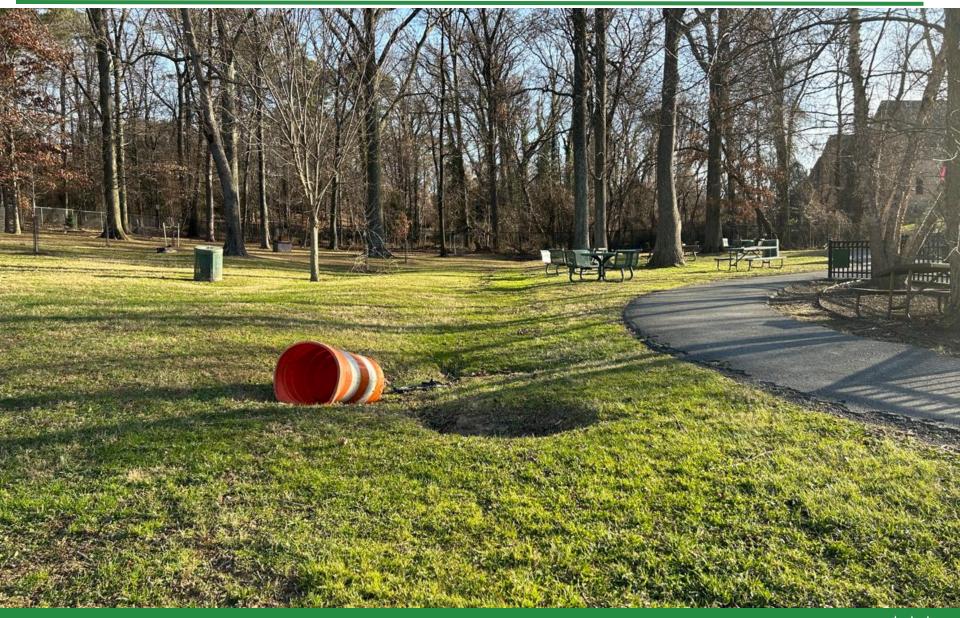




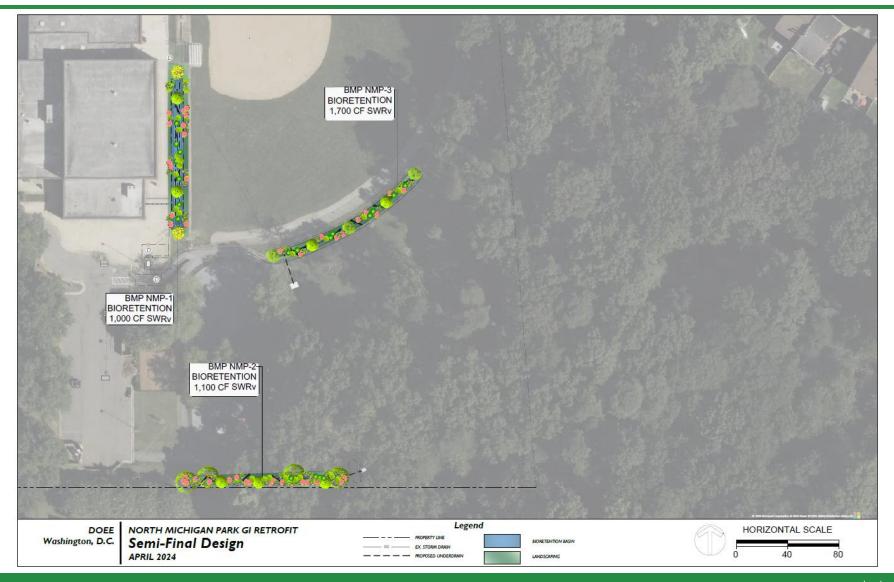








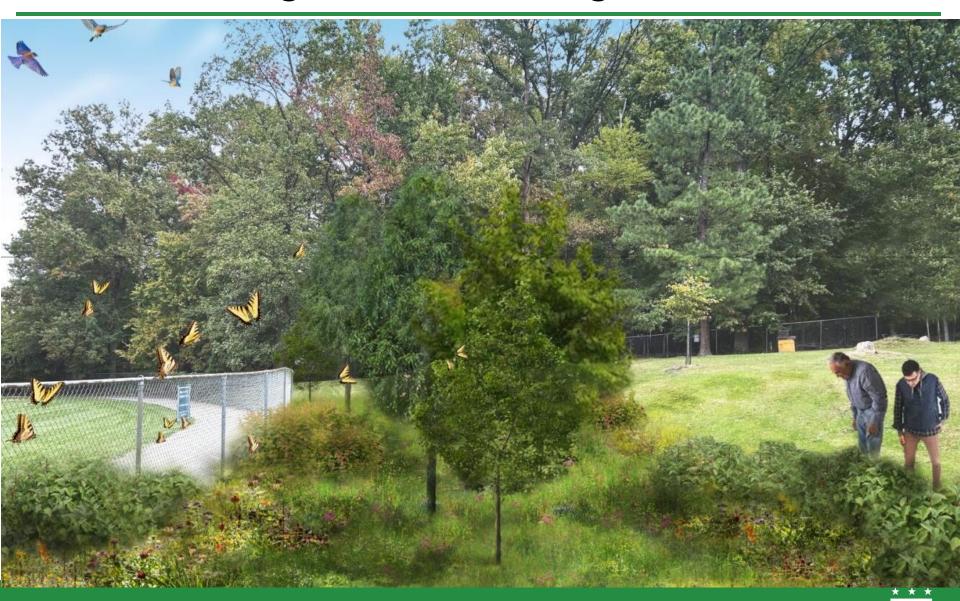
















PROJECT TIMELINE

- 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 4/10/2024
 - Final designs: TBD
 - Construction kickoff meeting (timeline): TBD

Contact and Additional Information

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Project Websites:

Benning Stoddert: https://doee.dc.gov/node/1699081

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







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

