

DWIGHT MOSLEY PLAYGROUND AND DAKOTA PARK STORMWATER RETROFIT PROJECTS

PUBLIC STAKEHOLDER CONCEPT DESIGN PUBLIC MEETING

October 26th, 2023

Elaine Vidal

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

Erica Carlsson

Environmental Protection Specialist
Watershed Protection Division
Department of Energy & Environment
Erica.carlsson@dc.gov



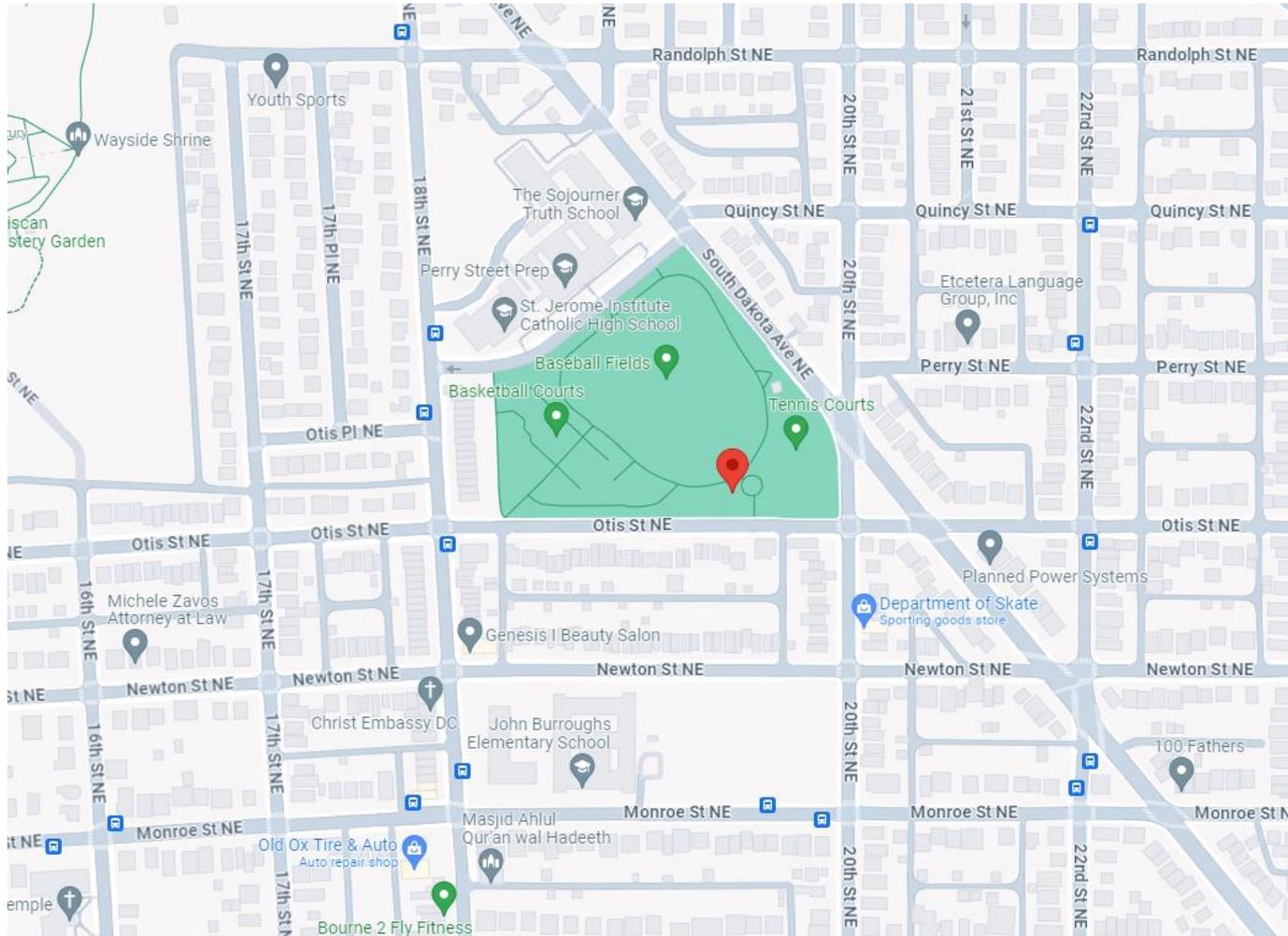
GOVERNMENT OF THE
DISTRICT OF COLUMBIA
MURIEL BOWSER, MAYOR

AGENDA

- Project Overview and Context
- Project Background and Objectives
 - What is stormwater and why do we treat it?
 - Restoration approaches with bioretentions
- Existing Conditions at Project Areas
 - Dwight Mosley conditions and concept designs
 - Dakota Park conditions and concept designs
- Project Timeline
- FAQs
- Q&A

PROJECT LOCATIONS: Dwight Mosely Playground

Address: 1800 Perry Street NE

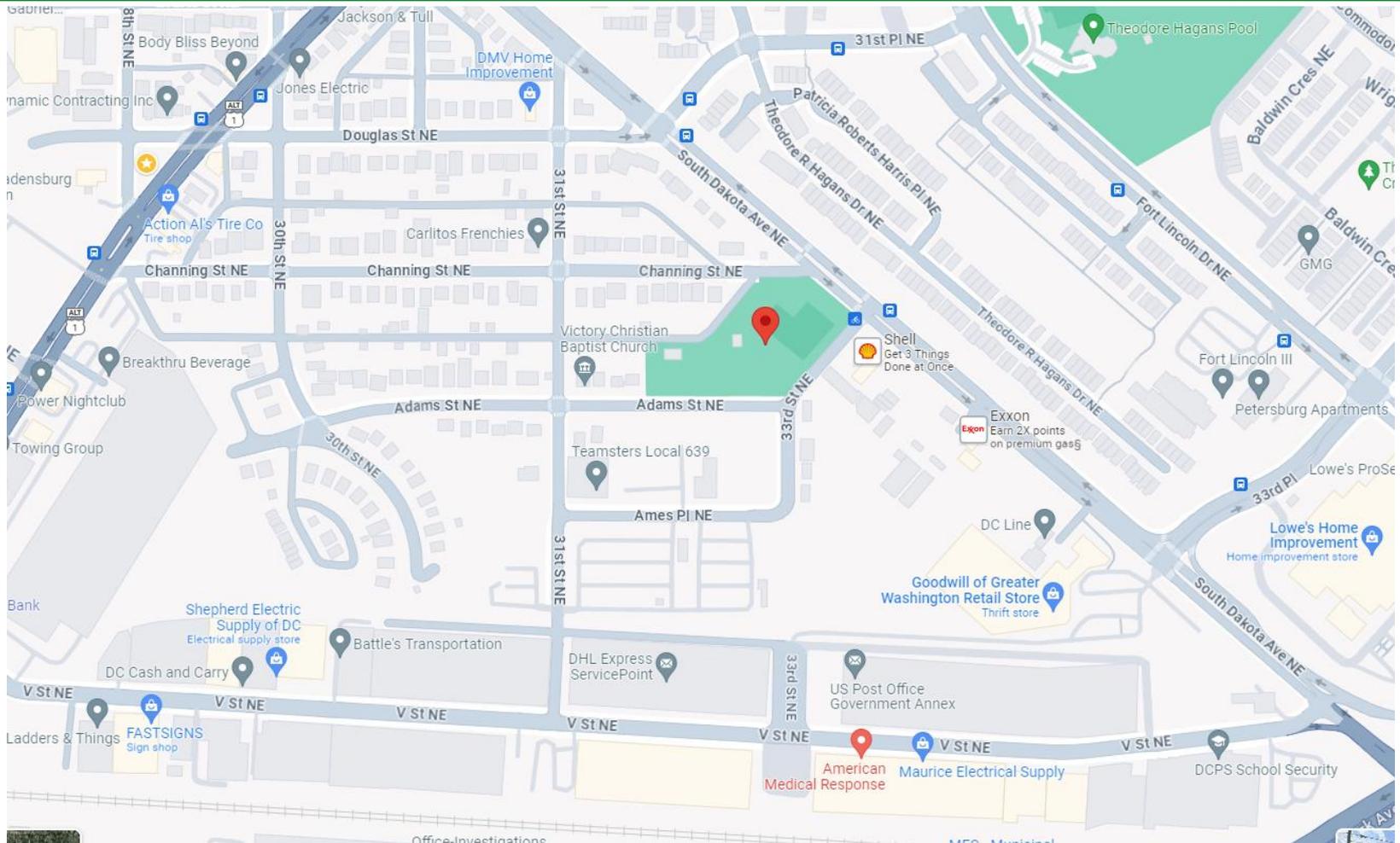


PROJECT LOCATIONS: Dwight Mosely Playground

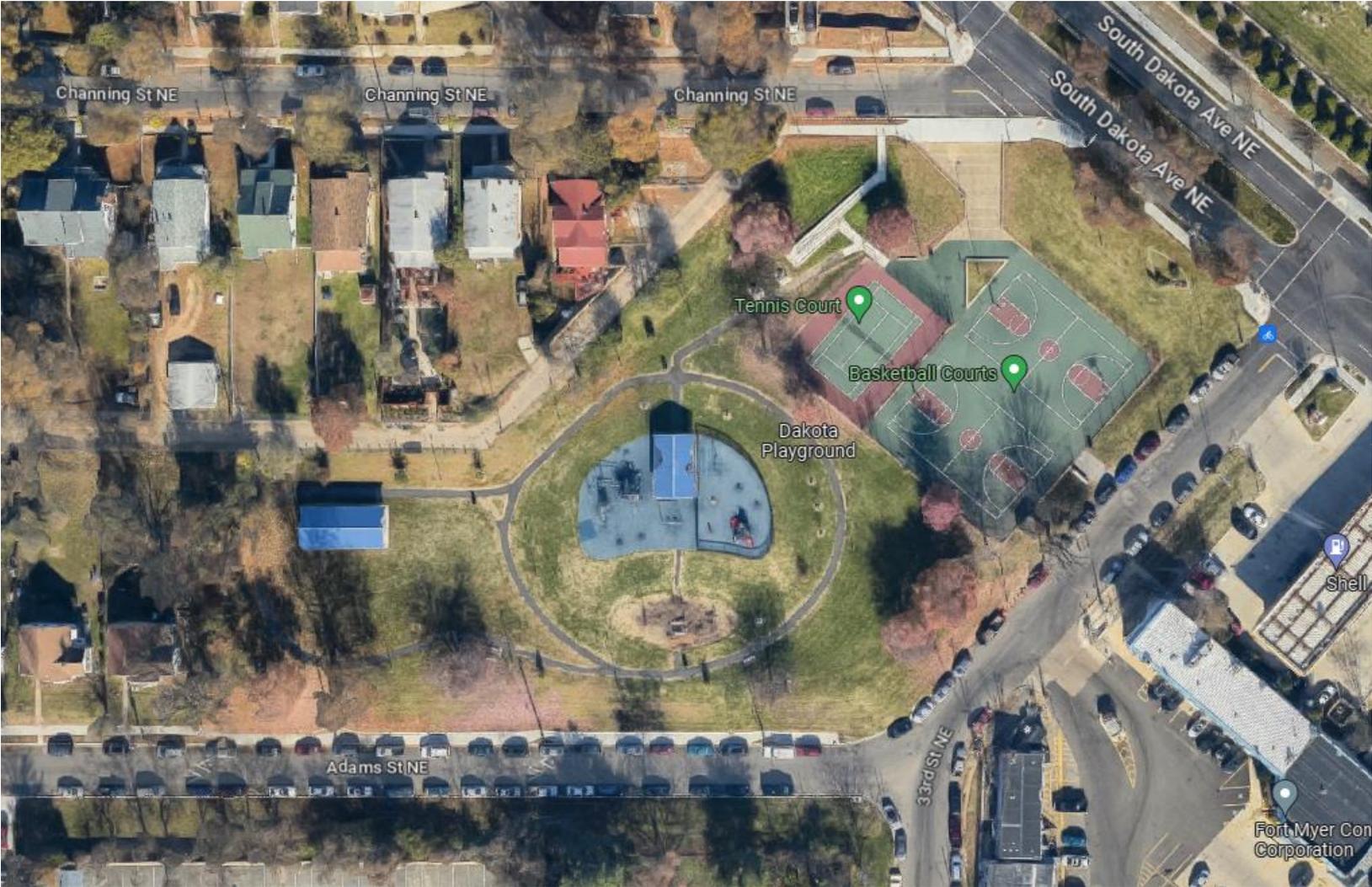


PROJECT LOCATIONS: Dakota Park

Address: Adams and 33rd Street NE



PROJECT LOCATIONS: Dakota Park



BACKGROUND

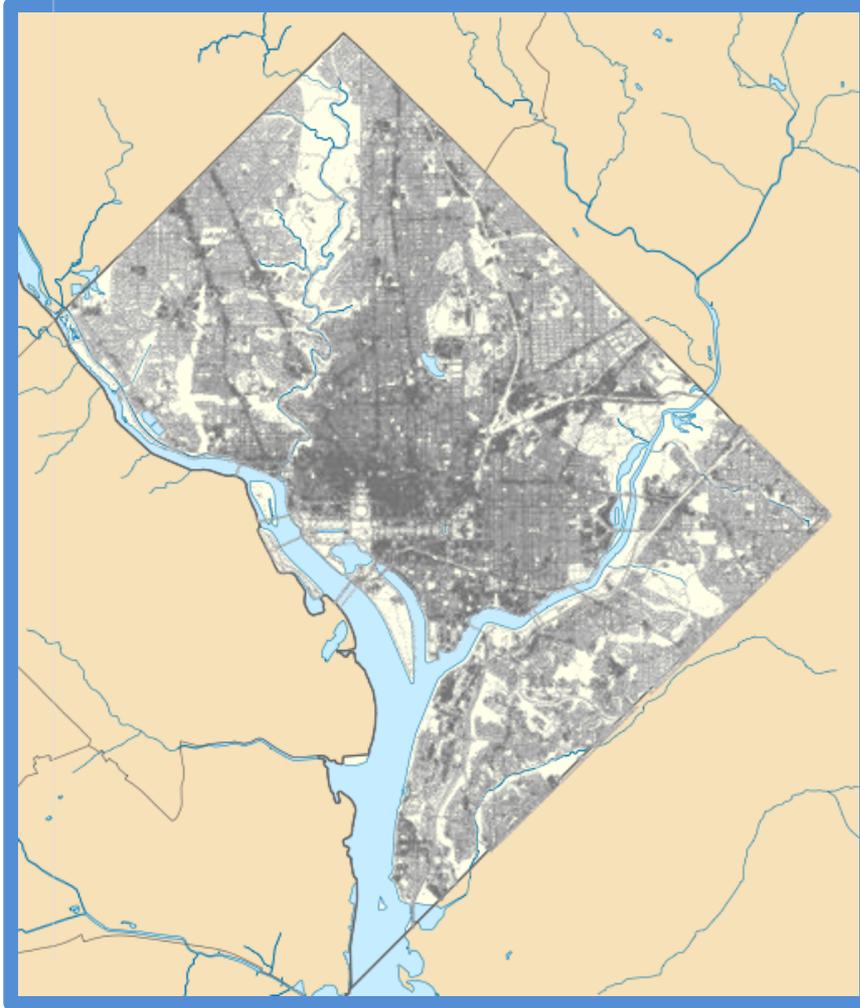
1) WHAT IS STORMWATER AND WHY DO WE TREAT IT?

2) WHAT ARE SOME SOLUTIONS?

PROBLEM OF STORMWATER POLLUTION



DISTRICT OF COLUMBIA LAND USE



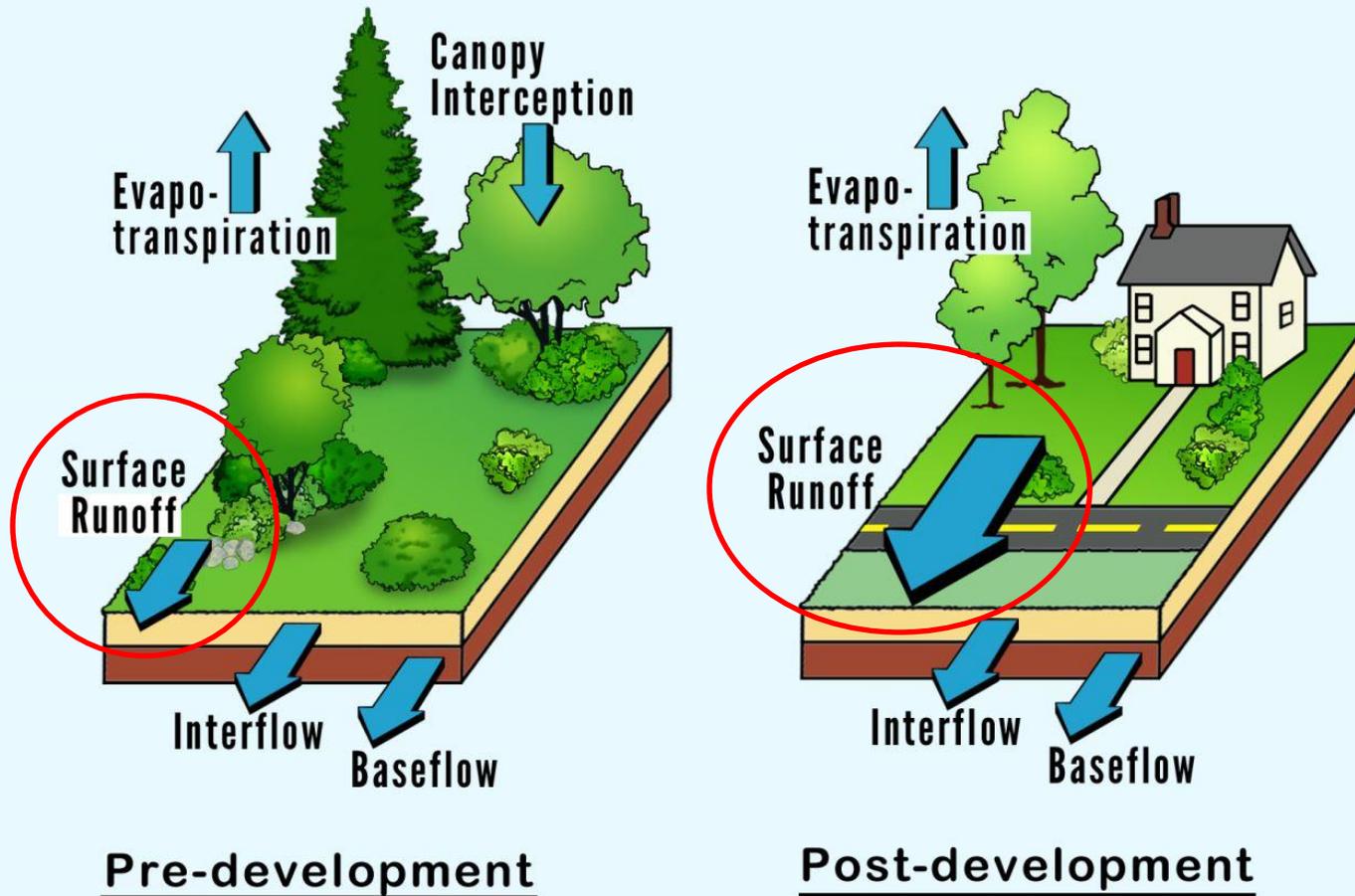
Total Area
68.3 mi²

Land Area
61.3 mi²

Impervious Area
26.6 mi²
*Approx 43%
of Land Area*

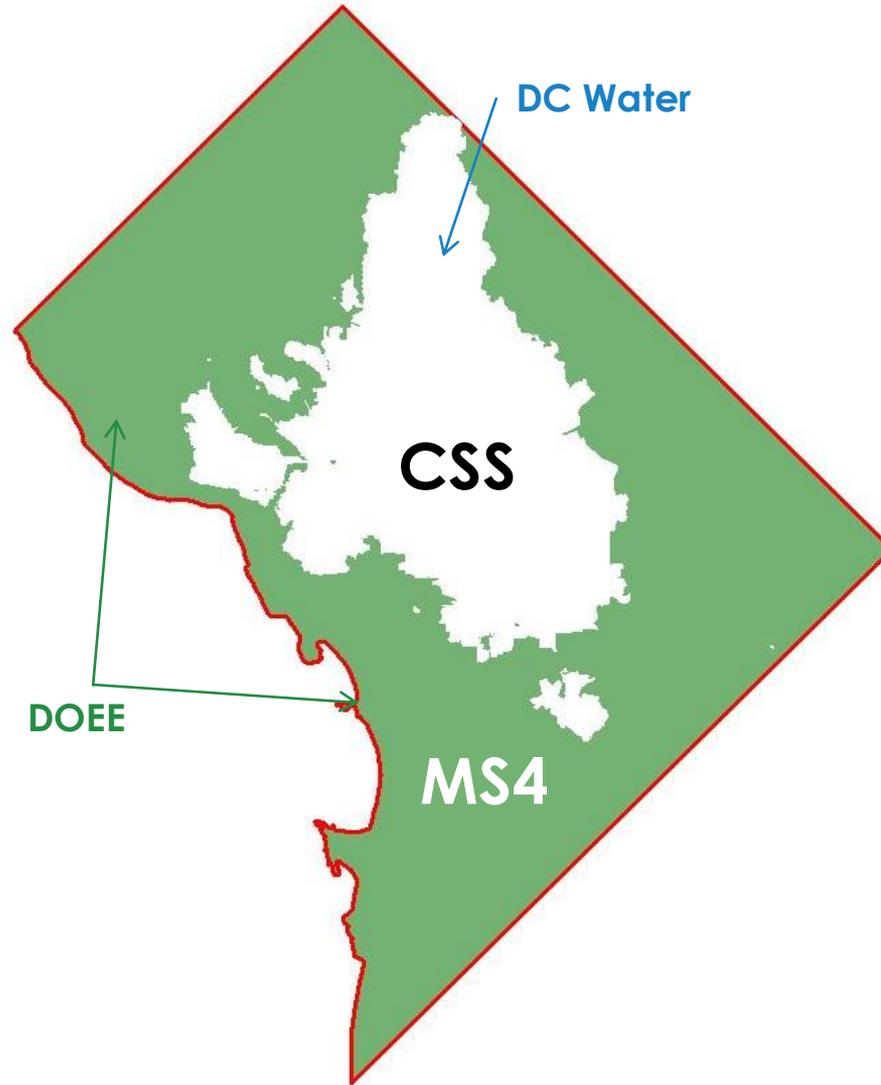
A single 1.2 inch storm falling on this area produces about 525 million gallons of stormwater runoff.

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.

DC'S RESTORATION APPROACHES



PROJECT OBJECTIVES

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

RESTORATION APPROACHES

GREEN STORMWATER INFRASTRUCTURE

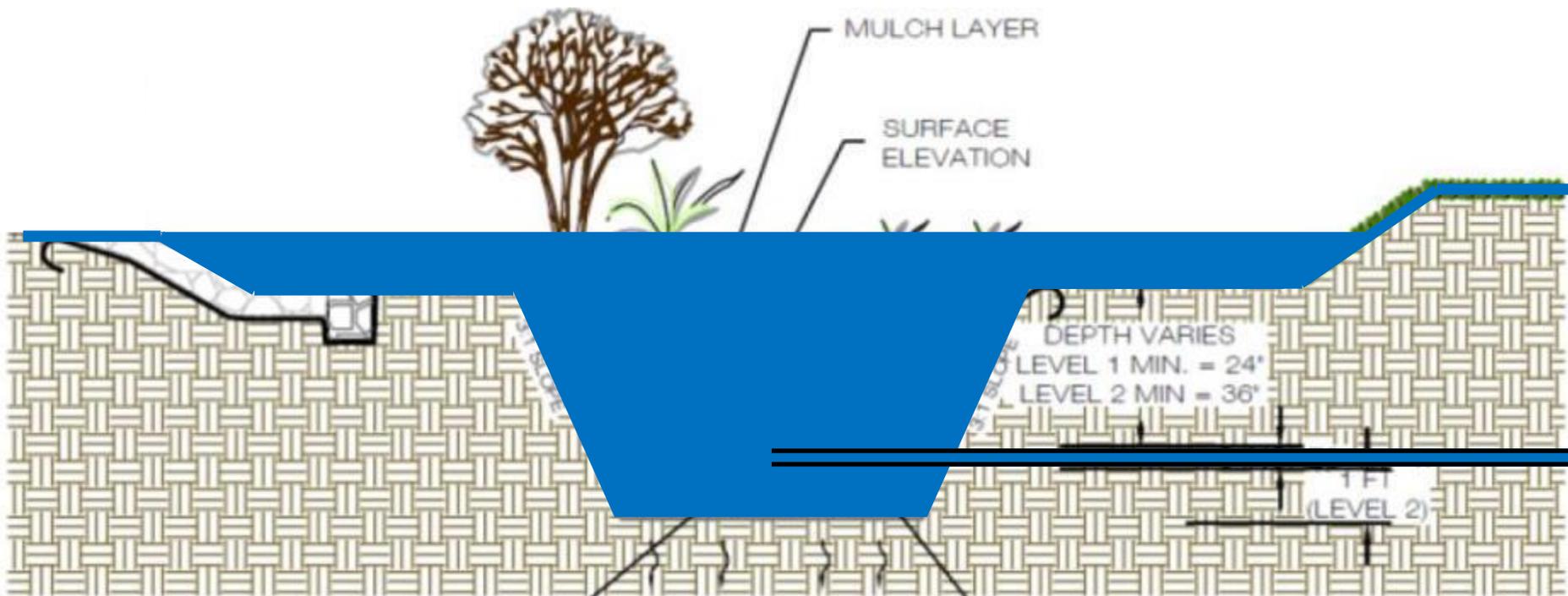
Most stormwater practices all work the same way: “they collect stormwater runoff and use or mimic natural processes that result in the infiltration, evapotranspiration or use of stormwater in order to protect water quality and associated aquatic habitat” (EPA).

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

BIORETENTION



BIORETENTION: HOW IT WORKS



BIOSWALES



EXISTING CONDITIONS: Dwight Mosley Playground



EXISTING CONDITIONS: Dwight Mosley Playground



EXISTING CONDITIONS: Dwight Mosley Playground



EXISTING CONDITIONS: Dwight Mosley Playground



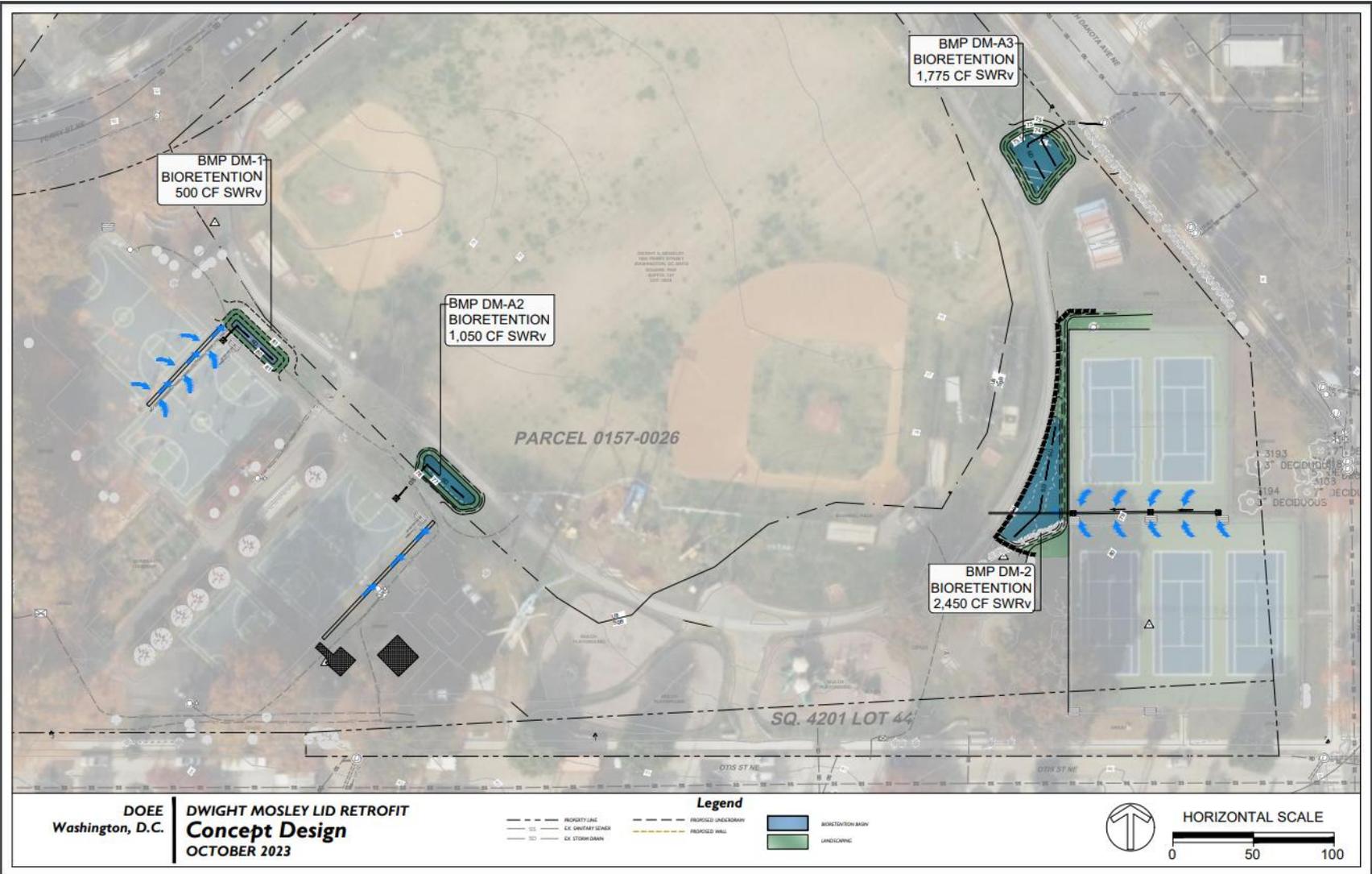
EXISTING CONDITIONS: Dwight Mosley Playground



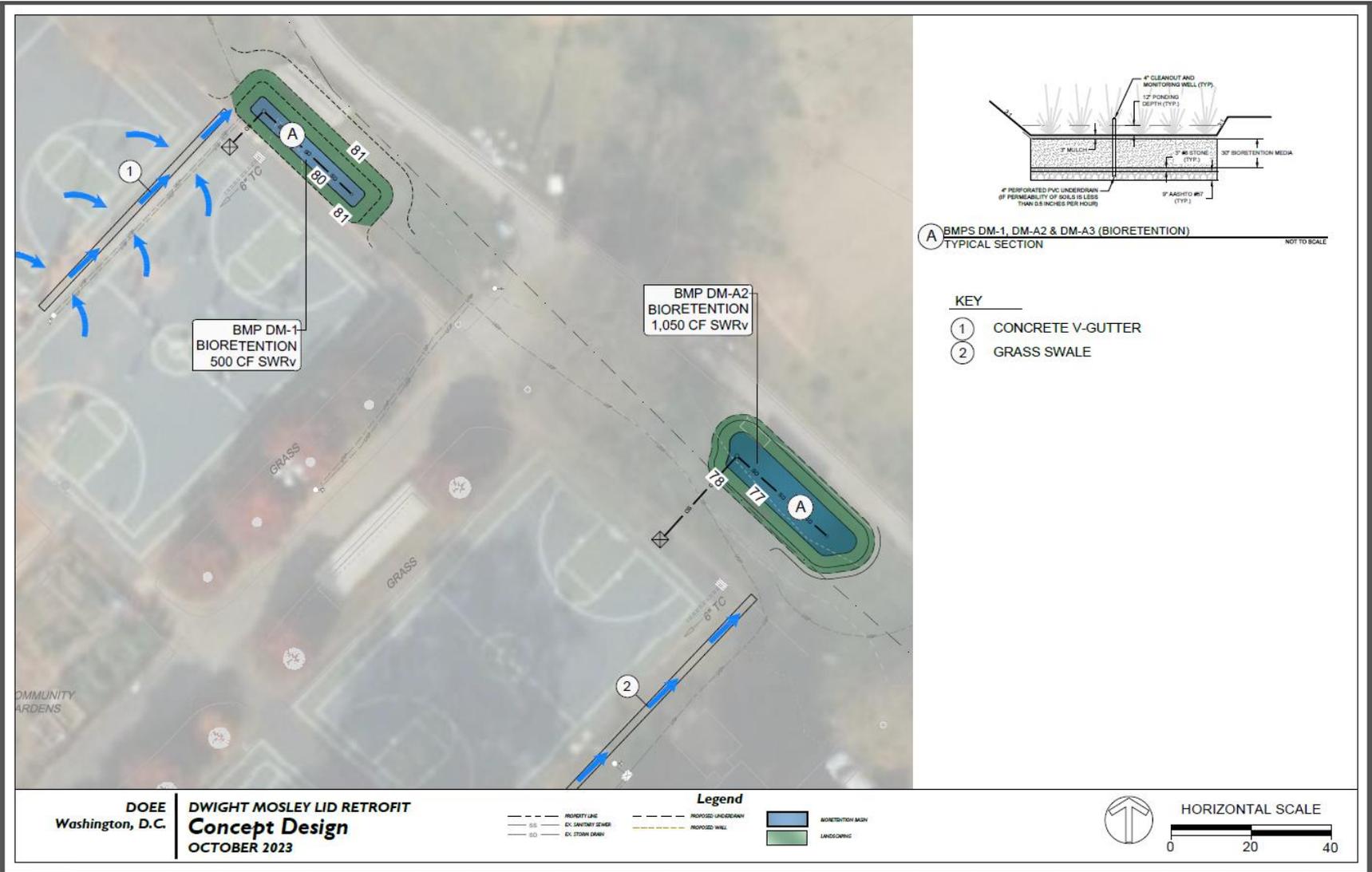
EXISTING CONDITIONS: Dwight Mosley Playground



PROJECT CONCEPT: Dwight Mosley Playground



PROJECT CONCEPT: Dwight Mosley Playground



A BMPS DM-1, DM-A2 & DM-A3 (BIORETENTION)
TYPICAL SECTION NOT TO SCALE

- KEY**
- ① CONCRETE V-GUTTER
 - ② GRASS SWALE

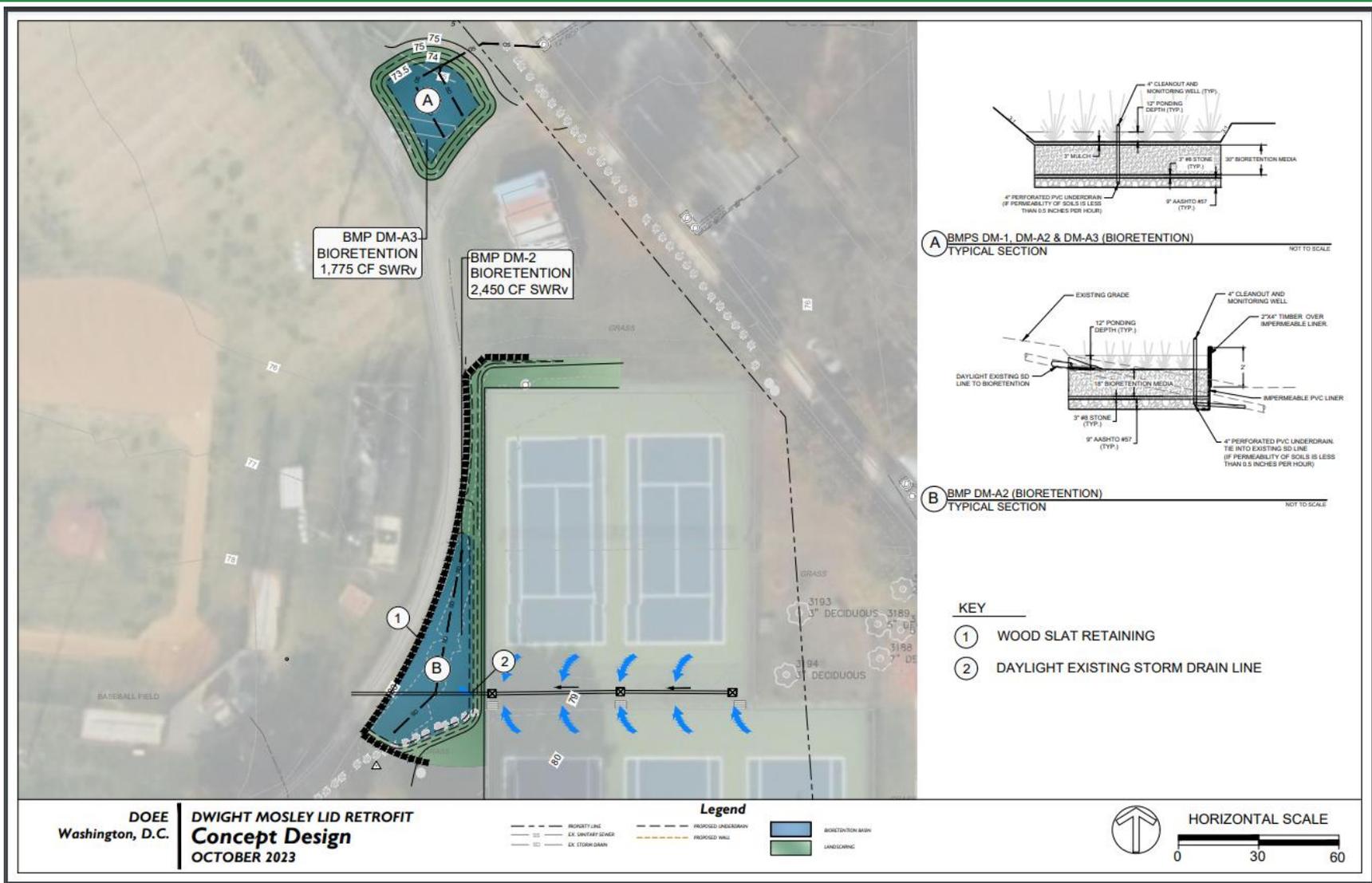
DOEE
Washington, D.C.

DWIGHT MOSLEY LID RETROFIT
Concept Design
OCTOBER 2023

- Legend**
- PROPERTY LINE
 - SS EX. SANITARY SEWER
 - SD EX. STORM DRAIN
 - PROPOSED UNDERDRYAN
 - PROPOSED WALL
 - BIORETENTION BASIN
 - LANDSCAPING



PROJECT CONCEPT: Dwight Mosley Playground



DOEE
Washington, D.C.

DWIGHT MOSLEY LID RETROFIT
Concept Design
OCTOBER 2023

EXISTING CONDITIONS: Dakota Park



EXISTING CONDITIONS: Dakota Park



EXISTING CONDITIONS: Dakota Park



EXISTING CONDITIONS: Dakota Park



EXISTING CONDITIONS: Dakota Park



EXISTING CONDITIONS: Dakota Park



PROJECT TIMELINE

- June 2023: contract awarded
- July – September 2023: field assessment (topographic survey, geotechnical investigations etc.), interagency coordination
- September 2023 – February 2024: design development
- 3 public meetings:
 - Concept designs on 10/26/2023
 - Semi-final designs (~65%): TBD
 - Construction kickoff meeting (timeline): TBD

FAQs

- How do we find our project sites?
 - Enthusiastic landowners!
 - 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



Contact and Additional Information

DOEE:

Elaine Vidal

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

Erica Carlsson

Environmental Protection Specialist
Watershed Protection Division
Department of Energy & Environment
Erica.carlsson@dc.gov

DPR:

Peter Nohrden

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

Project Websites:

Dwight Mosely: doee.dc.gov/node/1667426

Dakota Park: doee.dc.gov/node/1667421



GOVERNMENT OF THE
DISTRICT OF COLUMBIA
MURIEL BOWSER, MAYOR