CONGRESS HEIGHTS ENVIRONMENTAL RESTORATION PROJECT

PUBLIC STAKEHOLDER MEETING: CONSTRUCTION KICKOFF

June 17, 2019

NICK KUSHNER
Community Planner
Capital Projects, Planning and Design
Department of Parks and Recreation
nick.kushner@dc.gov

CECILIA LANE
Environmental Protection Specialist
Watershed Protection Division
Department of Energy & Environment
cecilia.lane@dc.gov

DPR DC DEPARTMENT OF PARKS AND RECREATION
DEPARTMENT OF ENERGY & ENVIRONMENT
WE ARE WASHINGTON DC
GOVERNMENT OF THE DISTRICT OF COLUMBIA
MURIEL BOWSER, MAYOR

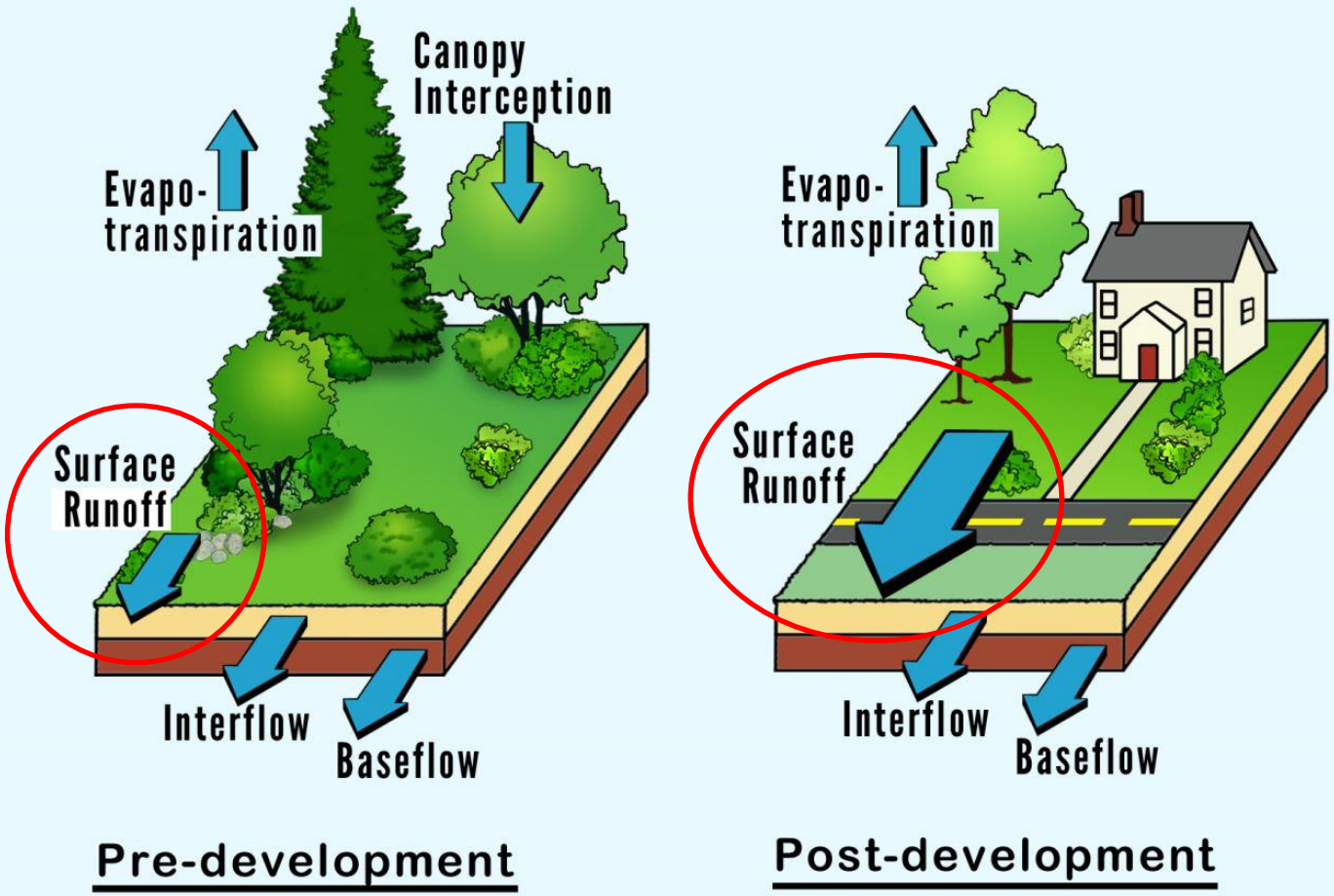
AGENDA

- Project Area & Background
- Existing Conditions
- Project Objectives
- Restoration Approach
- Construction Details
- Timeline
- Q&A

PROJECT LOCATION

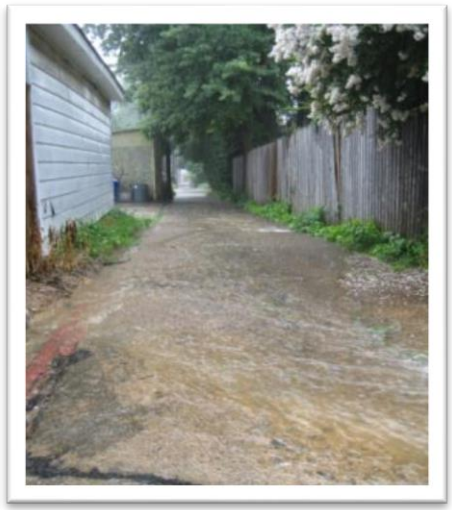
BACKGROUND

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.

PROBLEM OF STORMWATER POLLUTION



EXISTING CONDITIONS

- Soggy conditions
- Standing water at times
- Invasive plants
- Social trail

Stormwater from adjacent lands travels through the gully to the storm drain

RESTORATION APPROACH

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 !

EXAMPLES


Bioretention


Permeable Pavement

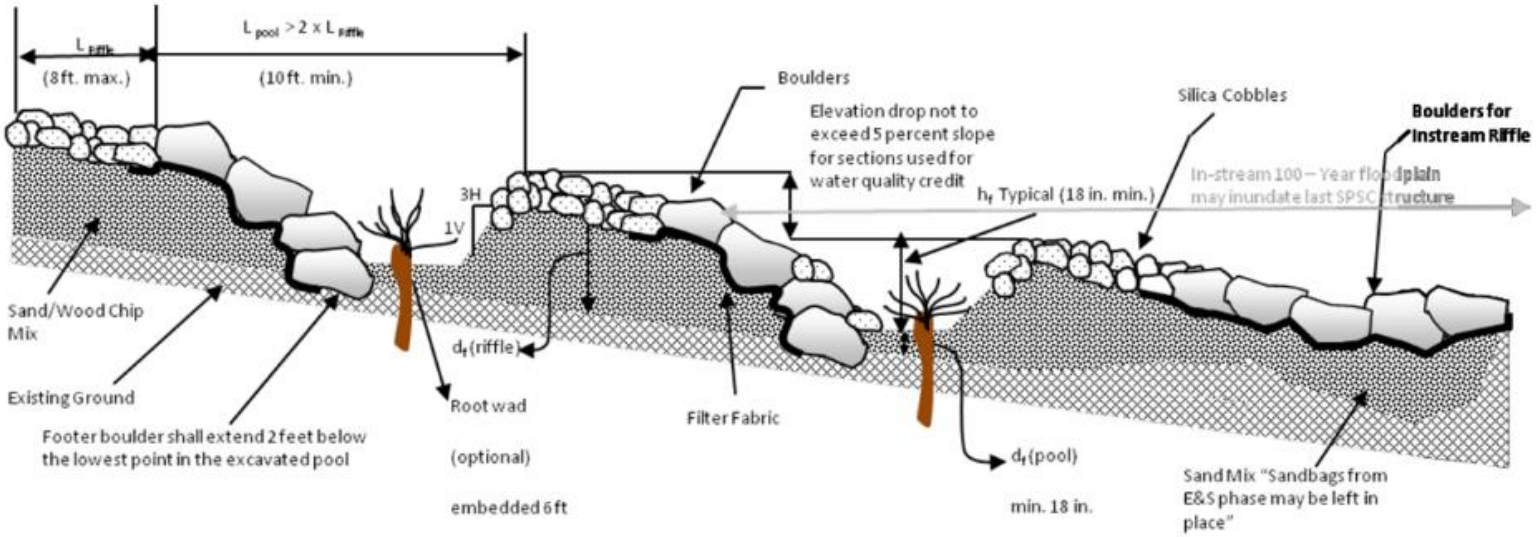

Bioretention


Permeable Pavement

REGENERATIVE STORMWATER CONVEYANCE

A.

B.



Typical Profile – Alternating Pools and Riffles

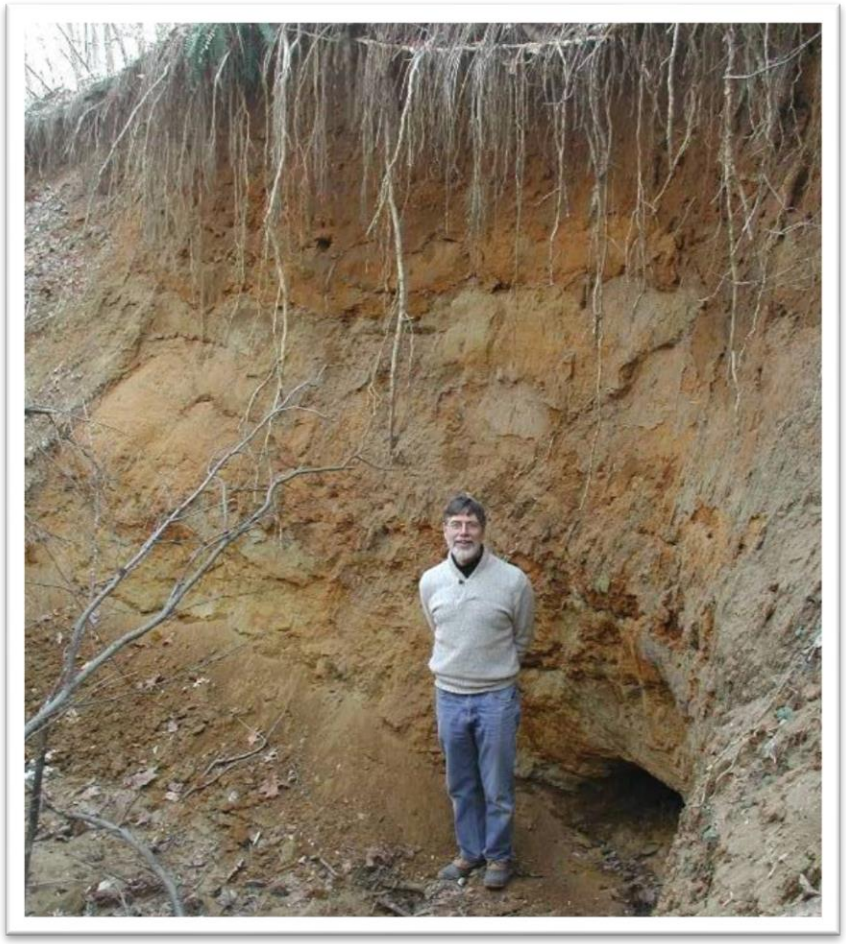
EXAMPLES

PRE-RESTORATION

POST-RESTORATION

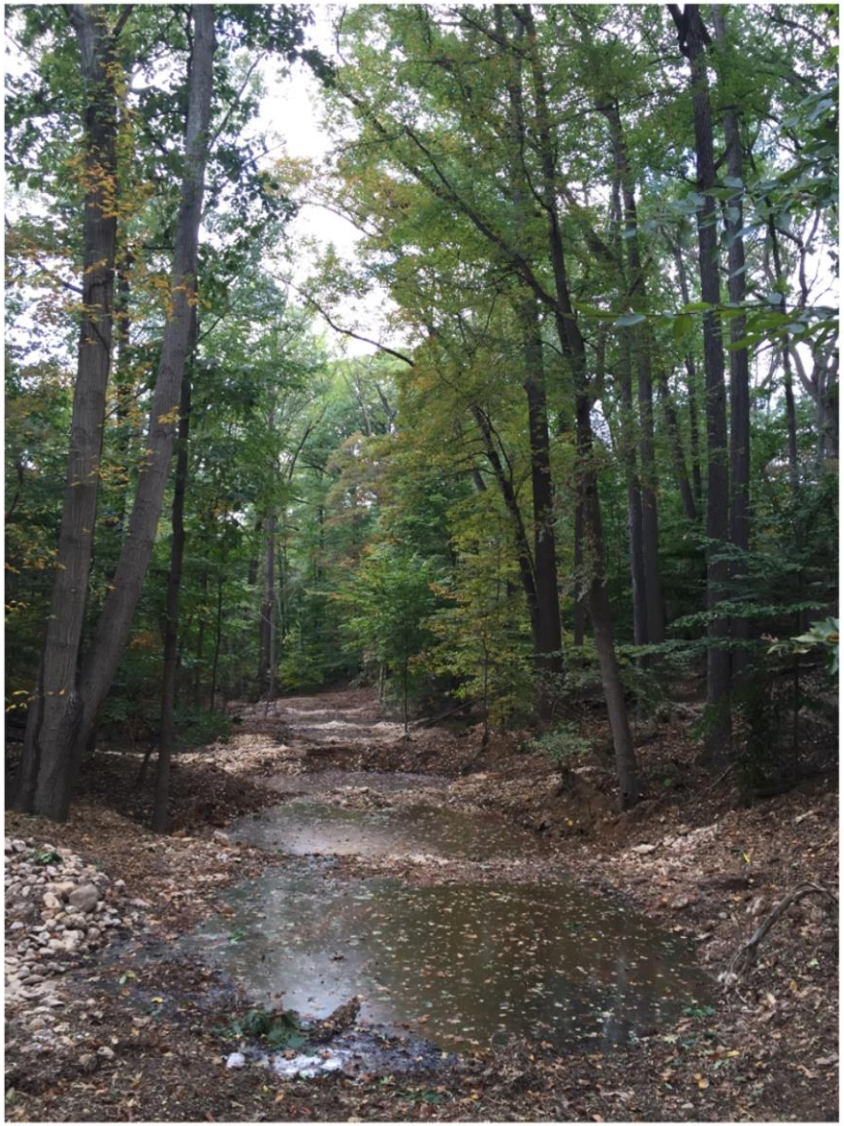
PRE-RESTORATION

POST-RESTORATION



PRE-RESTORATION

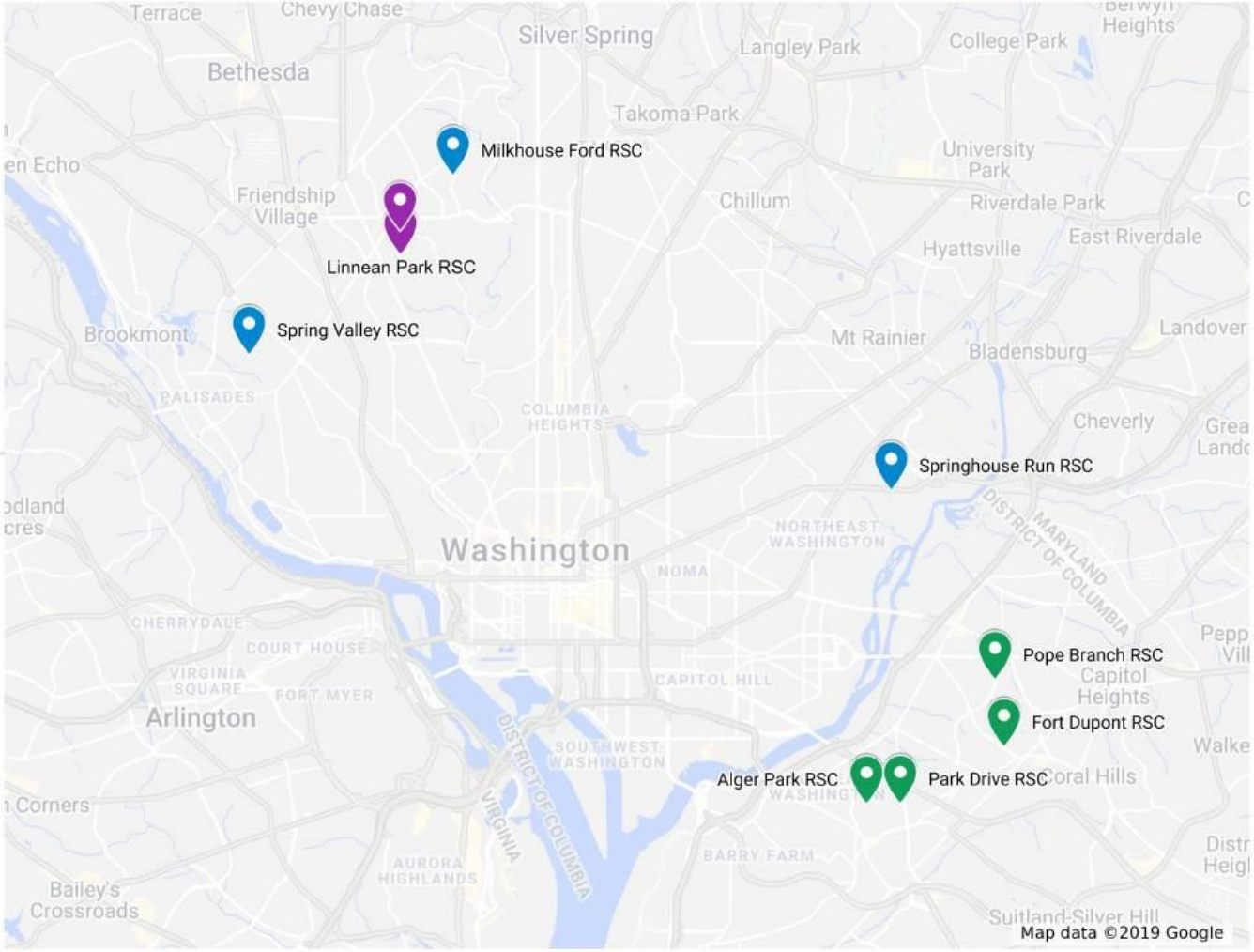
POST-RESTORATION



DOEE RSC Projects

DOEE RSCs (partial)

- Fort Dupont RSC
- Spring Valley RSC
- Alger Park RSC
- Springhouse Run RSC
- Linnean Park RSC
- Broad Branch RSC
- Pope Branch RSC
- Milkhouse Ford RSC
- Park Drive RSC



POST-RESTORATION TYPICAL STREAM IMPROVEMENT

CONSTRUCTION ACCESS FROM RECREATION CENTER

CONSTRUCTION ACCESS FROM DOT ALLEYWAY

STAGING AND STOCKPILE AREA

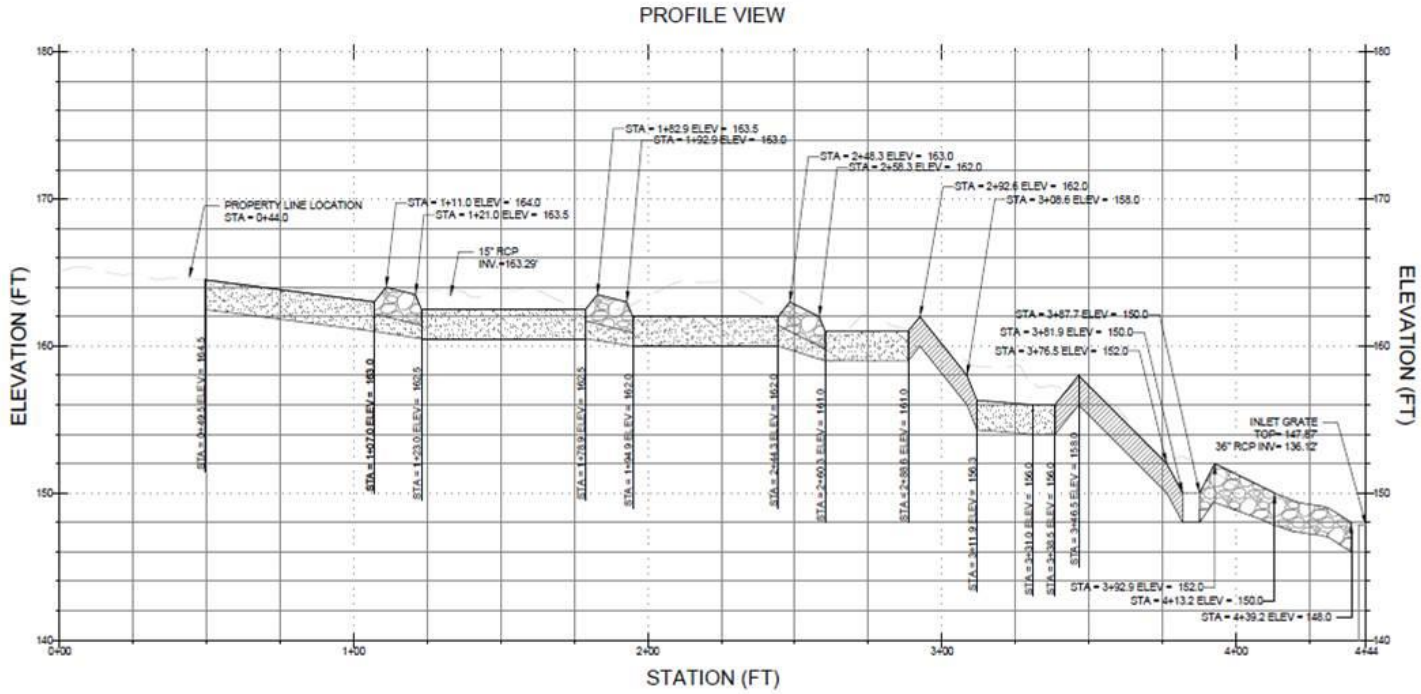
CONGRESS HEIGHTS RECREATION CENTER

CLEAN OUT BLOCKED STORM DRAIN OUTLET

4+44

LEGEND

- CASCADE
- RIFFLE
- POOL
- PROPOSED TRAIL
- EXISTING TREE CANOPY
- CONSTRUCTION ACCESS ROUTE



PROFILE LEGEND

EXISTING GROUND

PROPOSED GRADE

RIFFLE

CASCADE

CHANNEL FILL (SAND AND MULCH)

VERTICAL SCALE

HORIZONTAL SCALE

0 20 40

CONSTRUCTION DETAILS

GENERAL INFORMATION

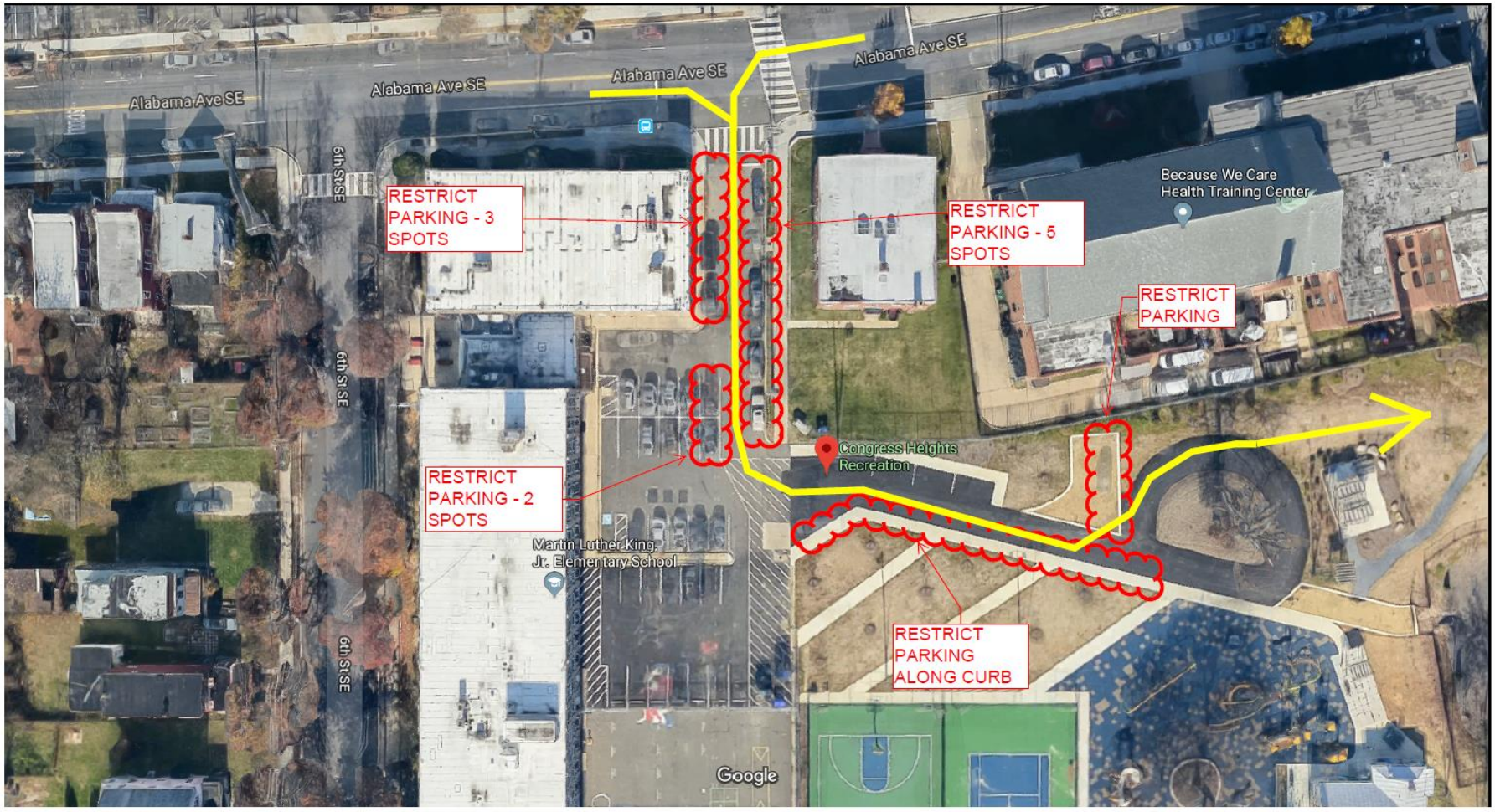
- All work to occur on weekdays (M-F)*
- Work hours are 8AM–5PM*
- Construction vehicles on site:
  - 1 track truck
  - 2 excavators
- DOEE Community Point of Contact:

  Cecilia Lane

  Cecilia.lane@dc.gov

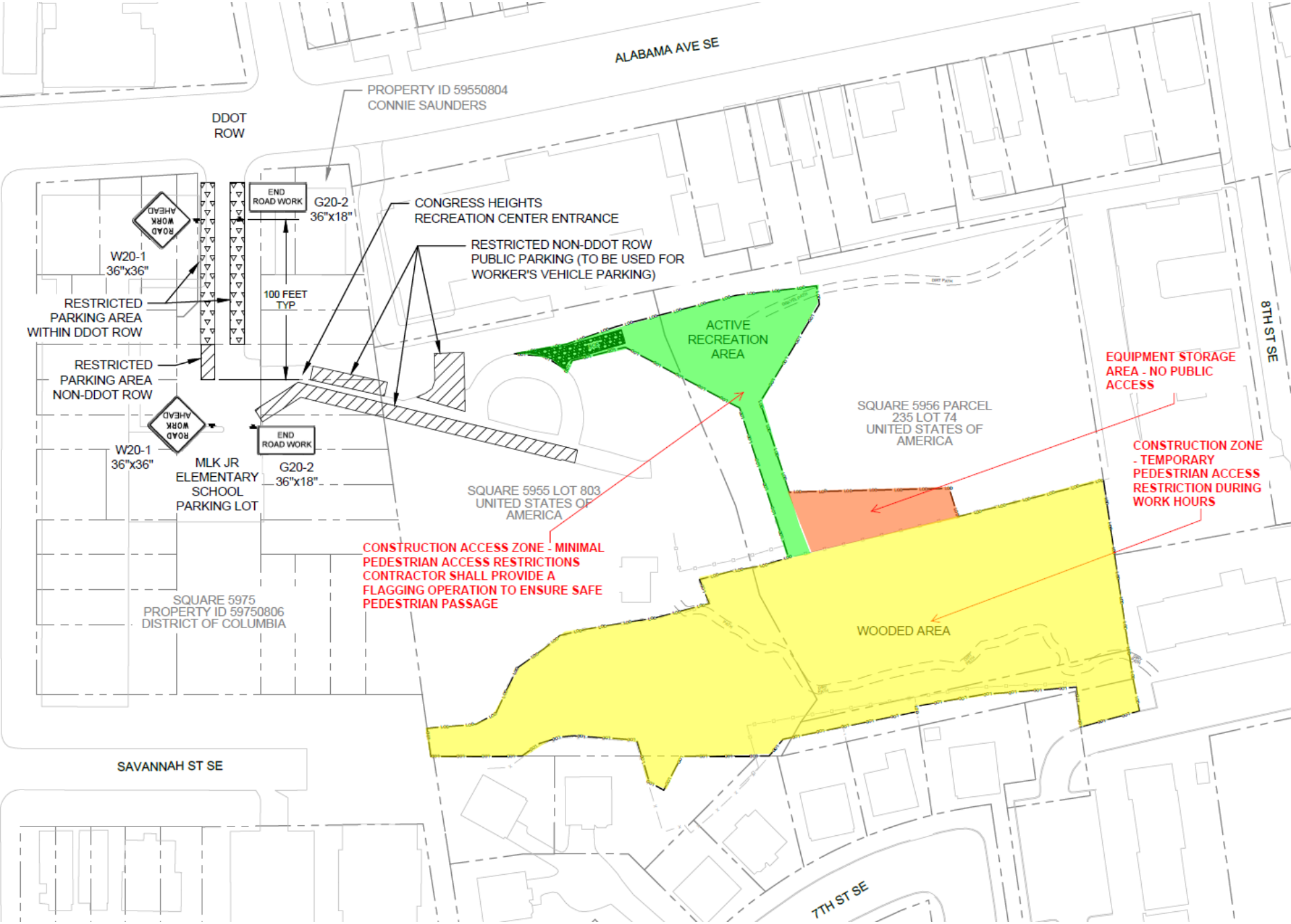
  202-535-1961

TRUCK ROUTES/PARKING RESTRICTIONS



SITE ACCESS

- Ball field to remain open all hours, temporarily paused if trucks are delivering materials (via flagger)
- Chain link fencing around staging area for equipment
- Temporary blaze orange fence will be at both ends of the trail through the woods to restrict access during work hours


ALABAMA AVE SE
PROPERTY ID 59550804
CONNIE SAUNDERS
DDOT
ROW
END
ROAD WORK
G20-2
36"x18"
CONGRESS HEIGHTS
RECREATION CENTER ENTRANCE
RESTRICTED NON-DDOT ROW
PUBLIC PARKING (TO BE USED FOR
WORKER'S VEHICLE PARKING)
ROAD
WORK
AHEAD
W20-1
36"x36"
100 FEET
TYP
RESTRICTED
PARKING AREA
WITHIN DDOT ROW
RESTRICTED
PARKING AREA
NON-DDOT ROW
ACTIVE
RECREATION
AREA
8TH ST SE
EQUIPMENT STORAGE
AREA - NO PUBLIC
ACCESS
SQUARE 5956 PARCEL
235 LOT 74
UNITED STATES OF
AMERICA
CONSTRUCTION ZONE
- TEMPORARY
PEDESTRIAN ACCESS
RESTRICTION DURING
WORK HOURS
SQUARE 5955 LOT 803
UNITED STATES OF
AMERICA
MLK JR
ELEMENTARY
SCHOOL
PARKING LOT
CONSTRUCTION ACCESS ZONE - MINIMAL
PEDESTRIAN ACCESS RESTRICTIONS
CONTRACTOR SHALL PROVIDE A
FLAGGING OPERATION TO ENSURE SAFE
PEDESTRIAN PASSAGE
SQUARE 5975
PROPERTY ID 59750806
DISTRICT OF COLUMBIA
WOODED AREA
SAVANNAH ST SE
7TH ST SE

PROJECT OBJECTIVES/ ASSUMPTIONS

- Create a healthy, functioning, and self-sustaining ephemeral tributary
- Control and treat runoff from adjacent impervious and compacted areas in the most cost-effective way
- Protect, enhance, and create wildlife habitat
- Remove and suppress growth of invasive species
- Work only on District land
- Minimal impacts to the community
- Development of a community amenity
- Educational opportunities

PROJECT TIMELINE

- November 2018: contract awarded
- November – January 2019: field assessment (topo, geotech etc.)
- January – June 2019: design development
- 3 public meetings:
  - ~~Concept designs~~
  - ~~Semi-final designs (~65%)~~
  - Construction kickoff meeting
- September 30, 2019: construction completed*

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"

RIVERSMART
DEPARTMENT OF ENERGY AND ENVIRONMENT

QUESTIONS?