



# SANITARY SEWER REHABILITATION IN GLOVER-ARCHBOLD AND SOAPSTONE VALLEY PARKS

# Purpose of Meeting

DC Water  
to Public

- Background
- Project purpose and need
- Concepts Developed to Date
- Issues

Public to  
DC Water

- Questions
- Concerns
- Comments

# Outline



## Overview



## Purpose and Need



## Concepts



# Existing Conditions



# Work Completed to Date

- CCTV
- Brainstorm creative concepts (ongoing)
- Conceptual Design
- Establish LOD for multiple concepts
- Site visits to evaluate constructability and impacts
- Meet with specialty contractors (to reduce LOD)
- Section 106 started
- Archaeology
- Wetlands
- Forest Stand
- Rare, Threatened, and Endangered Species

# Outline



## Overview



## Purpose and Need



## Concepts

# Project Purpose

- Maintain **function of the park** land
- Replace sewer that has lived its **full design life**
- Improve **structural integrity** of sewers
- Reduce **groundwater** infiltration into pipes
- Reduce potential for **overflows**
- Eliminate **exposed pipe** and manholes
- Meet **regulatory** requirements

# Project Need

## Pipe



## Manholes



## Exposed crossings



## Storm drain inlets/outlets



# Existing Problems



# Existing Problems



# Existing Problems



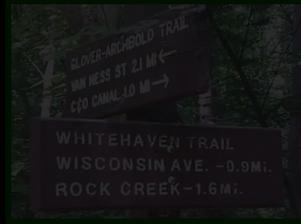
# Existing Problems



# Existing Problems



# Outline



Overview



Purpose and Need



Concepts

# Project Need

## Pipe



## Manholes



## Exposed crossings



## Storm drain inlets/outlets

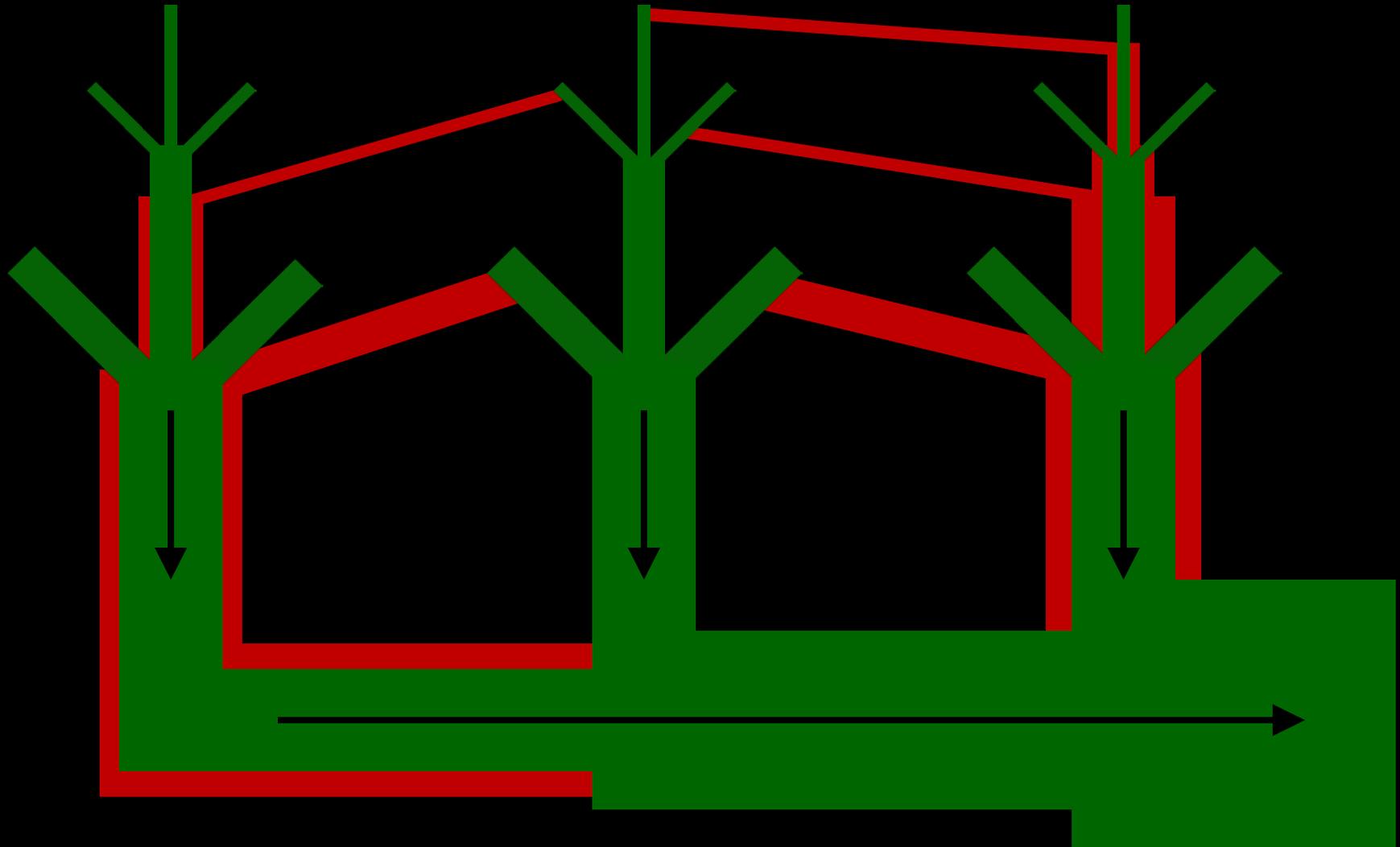




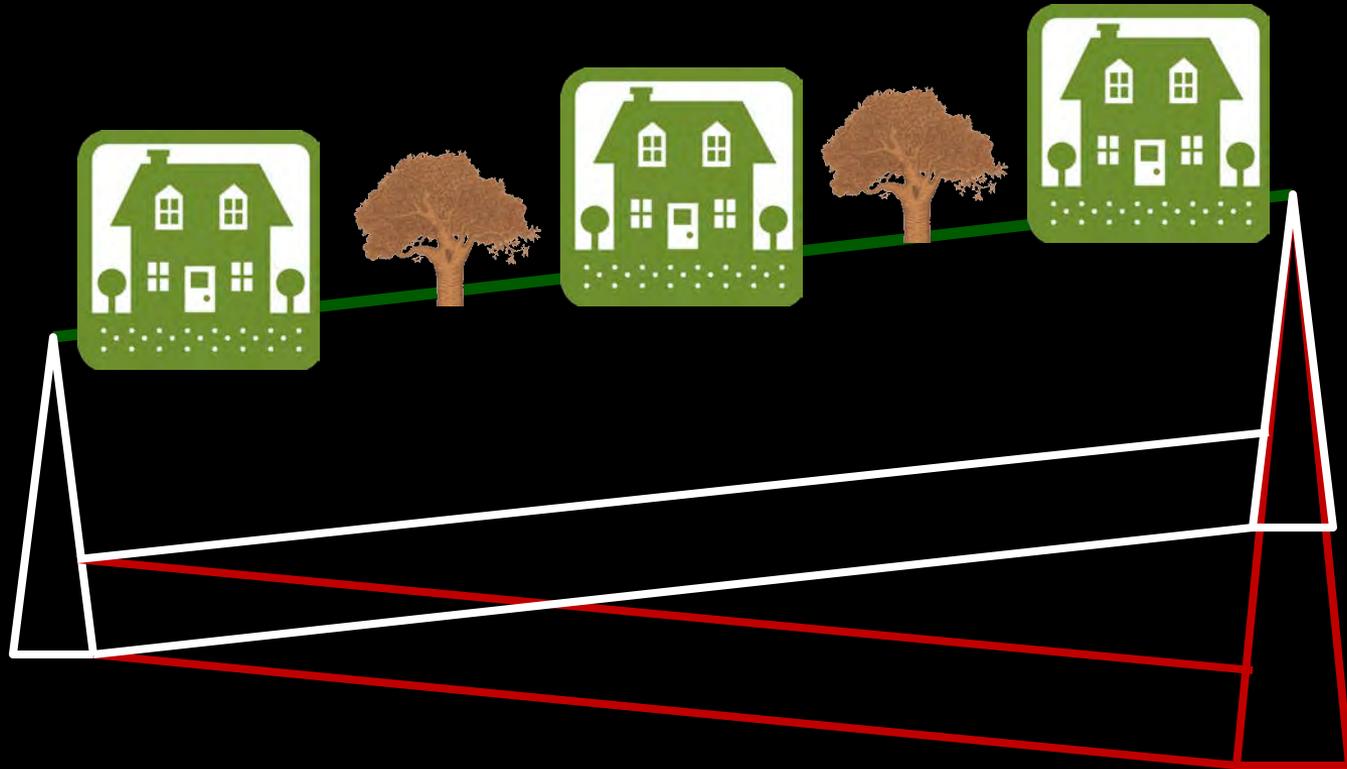
# Concepts Developed to Date

- Fully Remove Pipe from Park
- New Pump Station
- Open Cut Replacement in Park
- Aerial Crossing
- Trenchless Rehabilitation
- Trenchless New Construction
- Abandon Storm Piping (daylight)
- Slipline
- Install Siphons
- Combination of the above

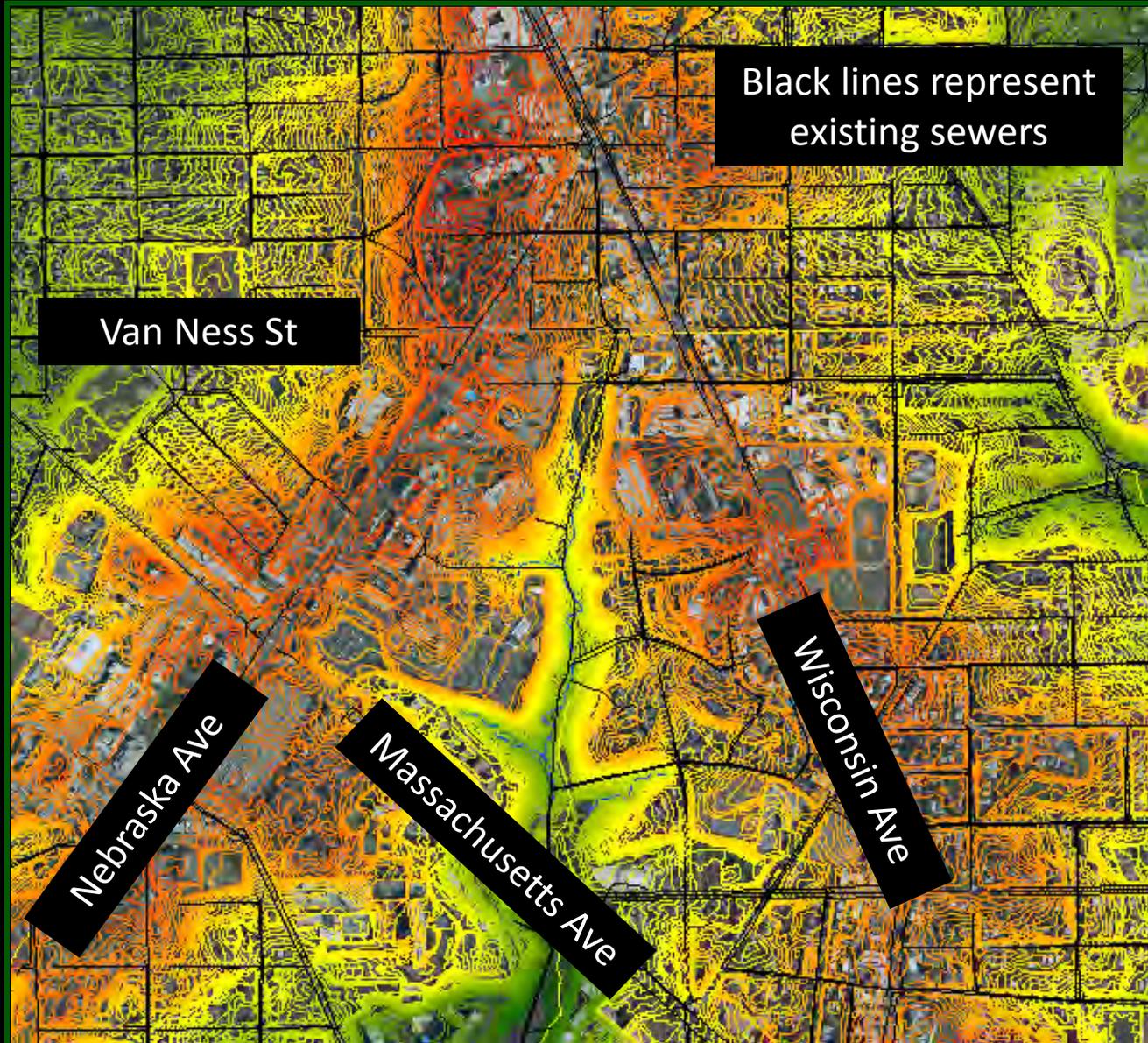
# Fully Remove Pipe from Park



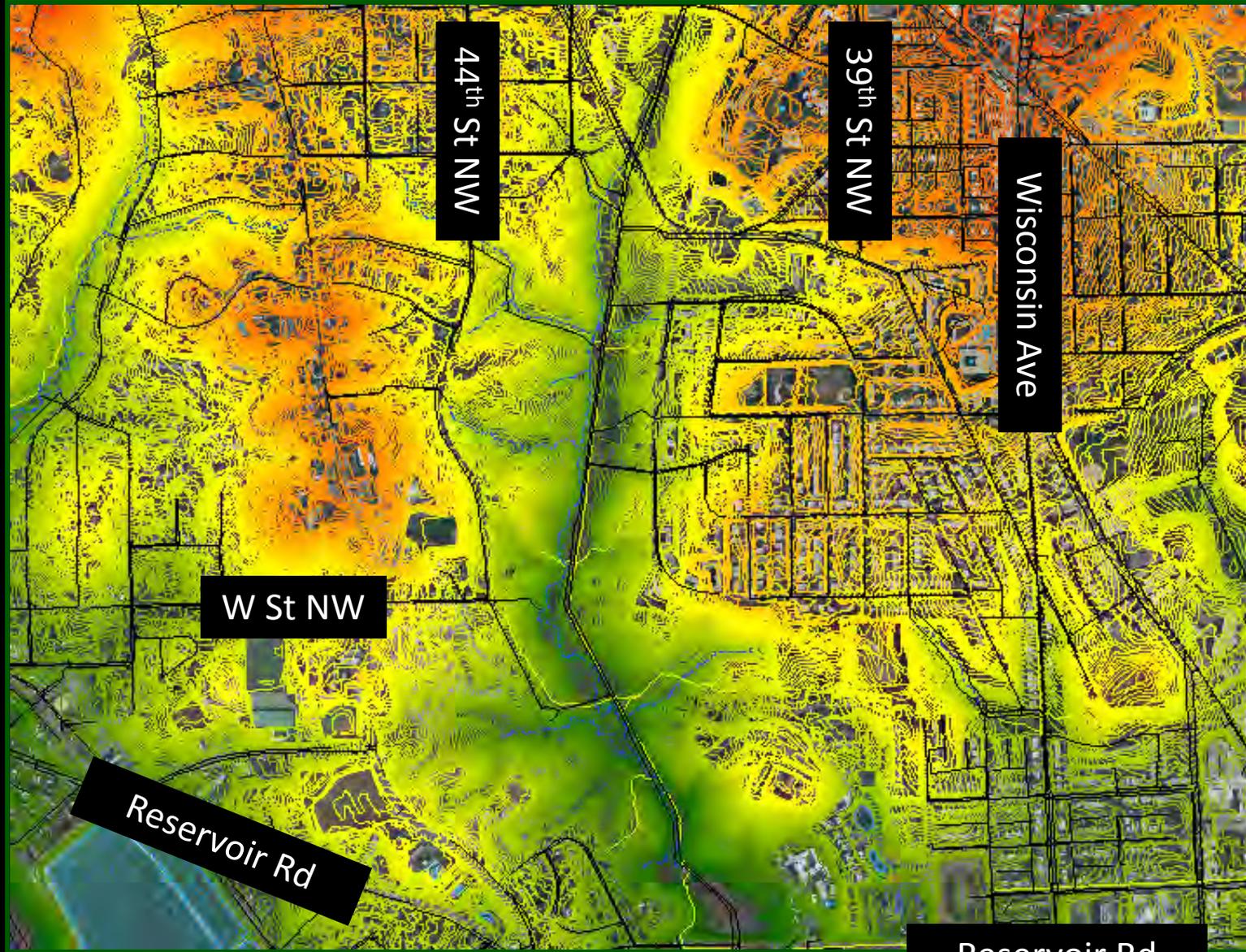
# Fully Remove Pipe from Park



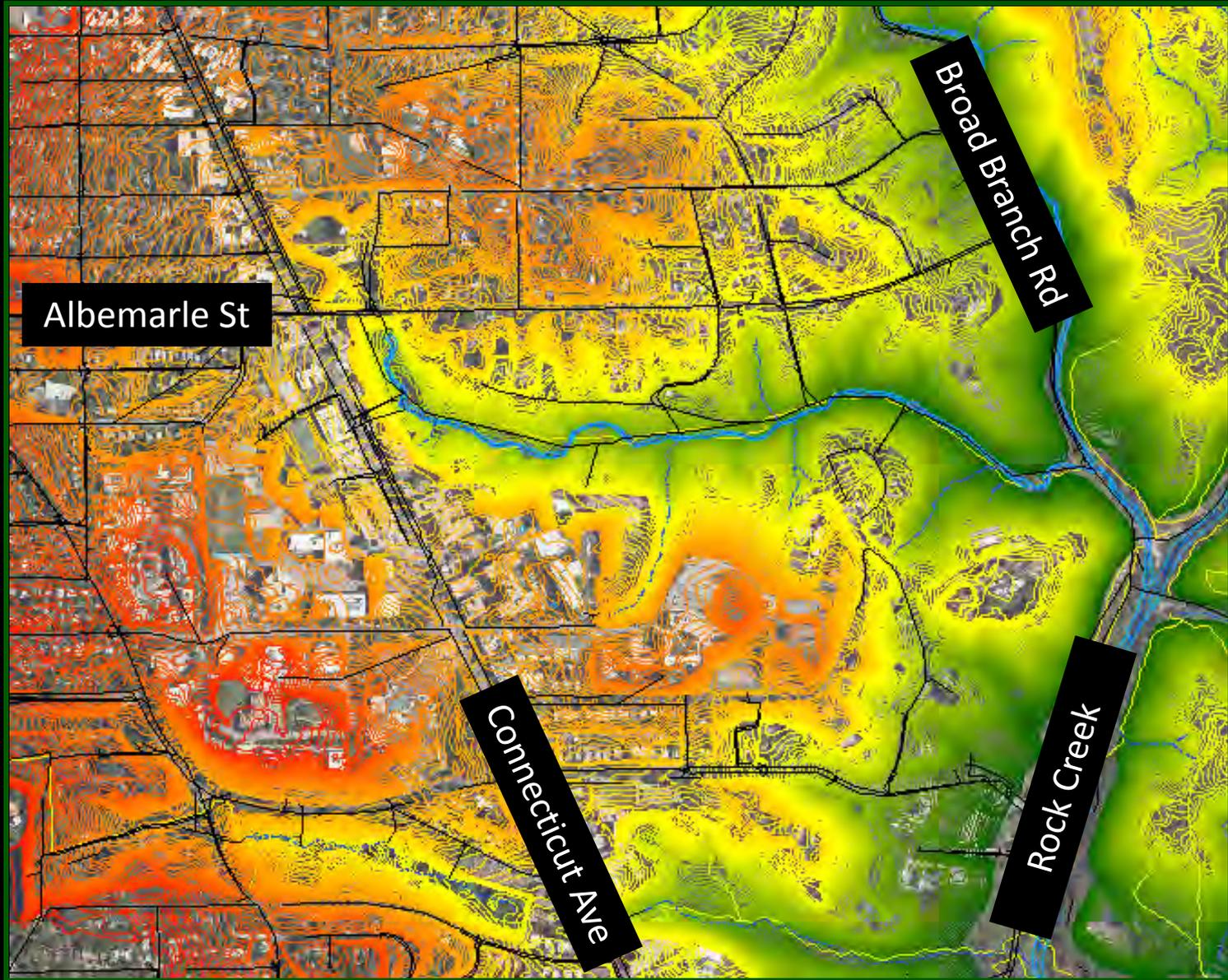
# Fully Remove Pipe from Park



# Fully Remove Pipe from Park



# Fully Remove Pipe from Park



# Fully Remove Pipe from Park

- Issues:
  - Excessive depth on the mainlines
  - Excessive depth on the 23 tributary sewers
  - Road closures (Foxhall from Canal to MacArthur)
  - Disruption to commuters and nearby residents

# New Pump Station



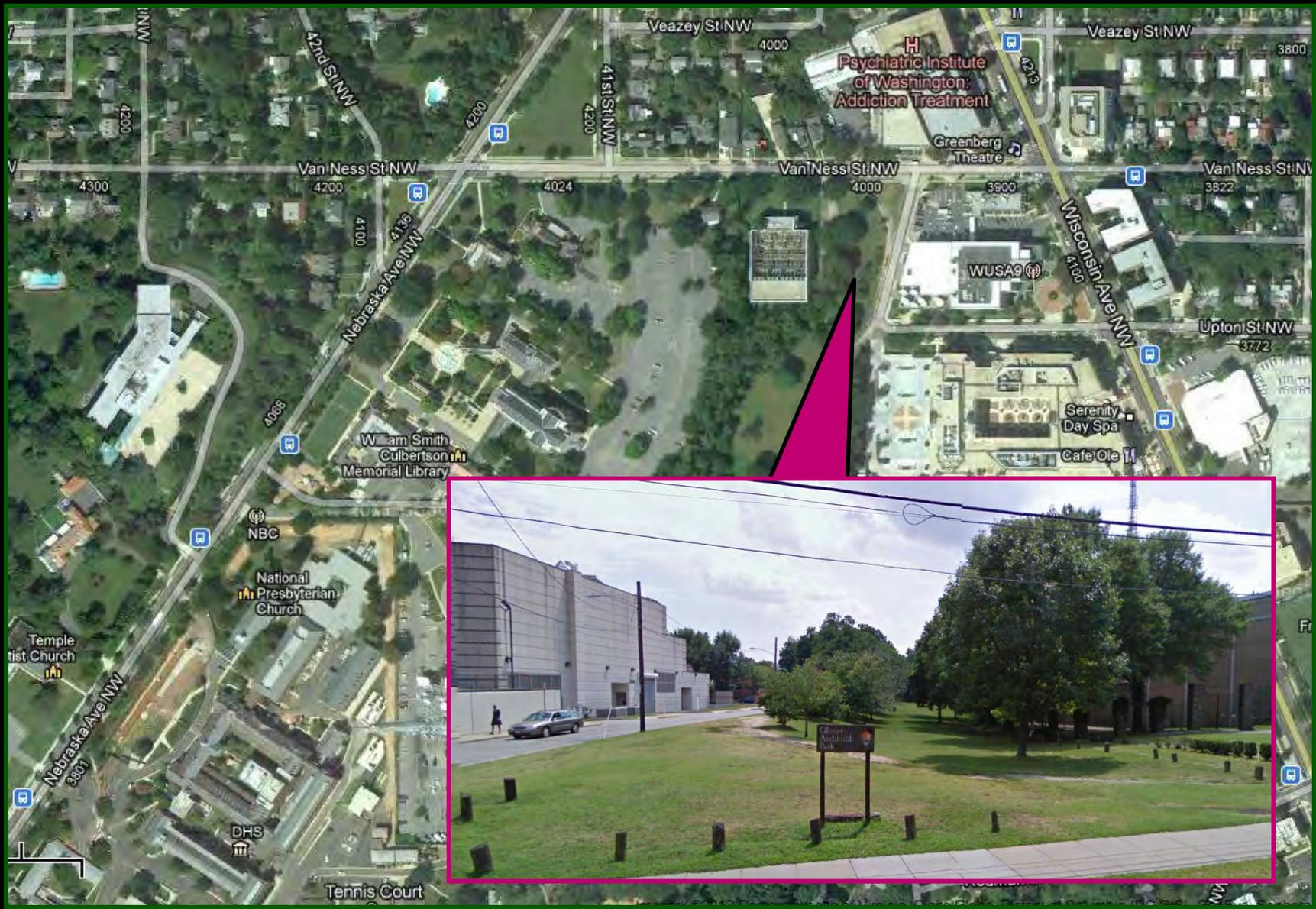
# New Pump Station



# New Pump Station



# New Pump Station



# New Pump Station

- Issues:
  - Location, Location, Location
  - Permanent Footprint (building & appurtenances)
  - Carbon footprint (energy consumption ~46 kw)
  - Noise, odor, and aesthetics
  - One pump station would not suffice, removal of pipe from the park would require a pump station for each tributary sewer (~20 manhole-style pump stations)

# Trenchless Lining and Coating



# Trenchless Lining and Coating





# Temporary Bypass Pumping



# Abandon Storm Drain



# Abandon Storm Drain



# Project Need

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## Manholes



## Exposed crossings



## Storm drain inlets/outlets



# Exposed Pipe Concepts

- Relocate pipe away from stream
- Lower pipe
- Install a pump station
- Install siphons
- Install aerial crossings
- Hard armor the stream
- Install cross vanes

# Cross Vanes



Before

After



# Cross Vanes



# Questions

- Collect Comments now
- Comment to Jessica via email at [jessica.demoise@dcwater.com](mailto:jessica.demoise@dcwater.com)
- Comment via NPS PEPC
- <http://parkplanning.nps.gov/rocr>
- Collecting comments for 60 days
- Developing Alternatives
- Determining correct NEPA pathway