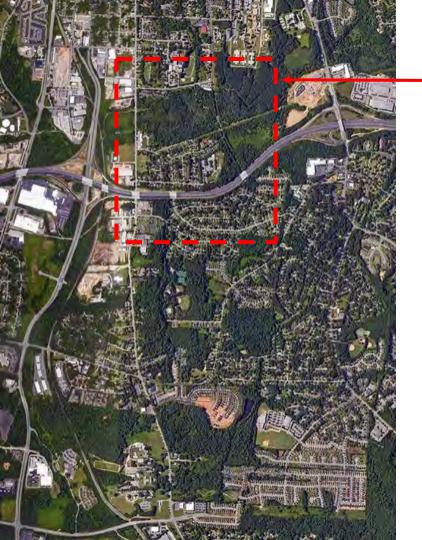
Parks with Purpose

LAR 502 Spring 2019 Reviews

Agenda

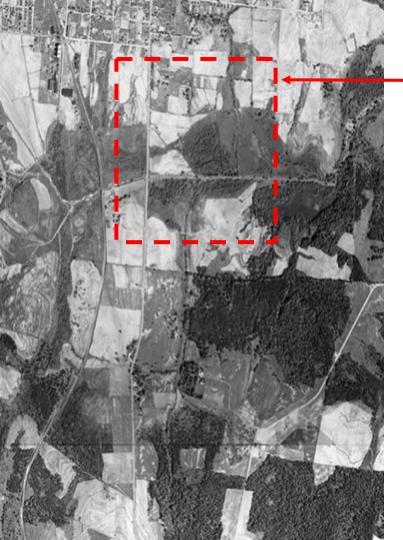
- Welcome and Introductions
- Summary site inventory and context
- Student presentations (4 total)
- Break
- Student presentations (4 total)
- Summary comments and reflection
- Adjourn



Study Area (Raleigh 2018)

Notes

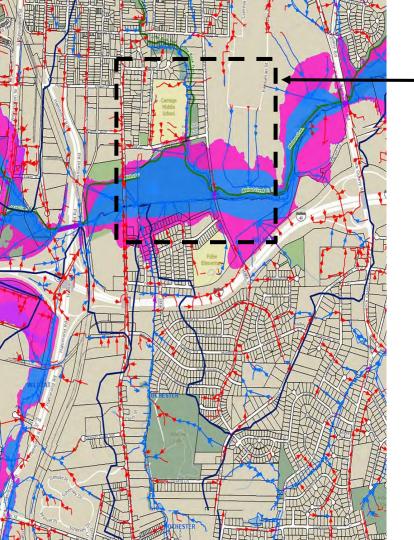
- Study Area selected because:
- Historically African American and underserved community
- History of flooding
- Potential to leverage Wetland Center and coming investment in Wetland Park
- Hurricane Floyd (Lake Raleigh drained) flooded Rochester Heights. City of Raleigh fixed similar flooding problem in North Raleigh (wealthy and white) but wanted to assess Rochester Heights a fee to fix flooding there
- Birth of Episcopalians for Environmental Justice (later Partners for Environmental Justice)



Study Area (1939)

Notes

- Study Area selected because:
- Historically African American and underserved community
- History of flooding
- Potential to leverage Wetland Center and coming investment in Wetland Park
- Previously rural land (First owned by Freedmen)
- Racialized topography (Race and elevation)
- Dr. Camp's analysis of urbanization and increased flood risk
- Future sites of Rochester Heights* and Biltmore Hills (First post-World War II suburban communities for African Americans



Study Area (Raleigh 2018)

Notes

- Study Area selected because:
- Historically African American and underserved community
- History of flooding
- Potential to leverage Wetland Center and coming investment in Wetland Park
- Proposal of Wetland Education Park (2000) and Wetland Education Center from PEJ
- FEMA buyouts of properties south of Wetland Park but no further action
- Community demand for more "connections" to the Wetland Park

History of the Area

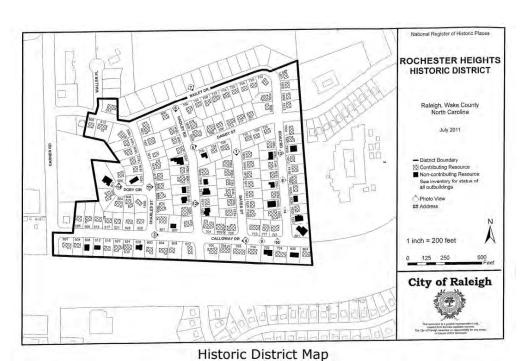
The Walnut Creek Wetlands were once largely owned by an African-American family, the Youngs, who farmed the land for a variety of crops. The family had ties with the Brimley brothers (Herbert Hutchinson and Clement Samuel) who collected and studied samples of animal and plant life from the wetlands. These studies ultimately led to the creation of the NC State Museum of Natural Sciences, South of the wetlands are Rochester Heights and Biltmore Hills communities, the first post World War II neighborhoods built for African-Americans in Raleigh, NC.



The Young family pictured in 1936 on site where Fuller Elementary School now stands.

History of the Area

The Rochester Heights Historic District, with a period of significance from 1957 to 1964, meets National Register Criterion A for its contributions to the Community Planning and Development and Black Ethnic Heritage history of mid-twentieth-century Raleigh. Built as one of only a handful of post-World War II subdivisions planned for and open to the black community in the city, the district originally was home to physicians, educators, builders, business owners, general laborers, retired military personnel and government agency employees



History of the Area



Dr. Norman Camp is an educator, environmentalist, political activist, community advocate and NC State University alumnus. He received his Ph.D. in Science Education in 1979, was born in East Raleigh and grew up exploring the Walnut Creek Wetlands. Dr. Camp served as college administrator at three different institutions throughout the Southeast, including holding positions of Dean and Vice Chancellor.

Norman and Betty Camp Wetland Education Center



Walnut Creek Wetland Park



Parks with Purpose

Parks with Purpose Project





ADDITIONAL PARTNERS

American Rivers

Carolina Wetlands Association

Center for Human and Earth Restoration

City of Raleigh: Dept. of Parks, Recreation and Cultural Resources; Stormwater Management Division; Office of Sustainability: Walnut Creek

Wetland Park
Fuller Elementary School

Institute for Landscape Art and Sustainable Spaces
The JPB Foundation

NC State University: College of Natural Resources; College of Humanities and Social Sciences; Natural Learning Initiative

Partners for Environmental Justice

Pisces Foundation

Rochester Heights & Biltmore Hills residents Shaw University

St. Ambrose Episcopal Church Triangle Greenways Council

WHAT IS A PARK WITH PURPOSE?

Parks are important places in our communities, where kids can play and families can gather. With thoughtful planning these natural areas can also support other purposes, including absorbing and cleaning stormwater when it rains, supporting training programs for green jobs, and meeting other community needs.



WALNUT CREEK WETLAND COMMUNITY PARTNERSHIP

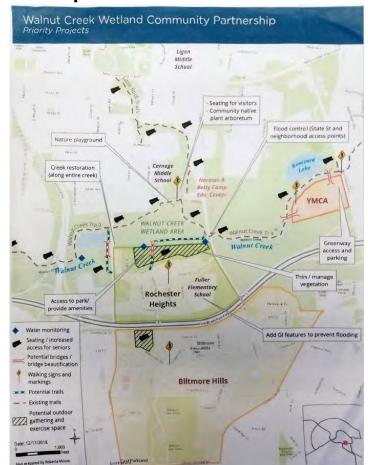
This partnership provides a communication hub for residents, community stakeholders, academic and government leaders to collaborate on sustainable management of the wetlands and development of opportunities that benefit those who live, work, and play in the surrounding community.

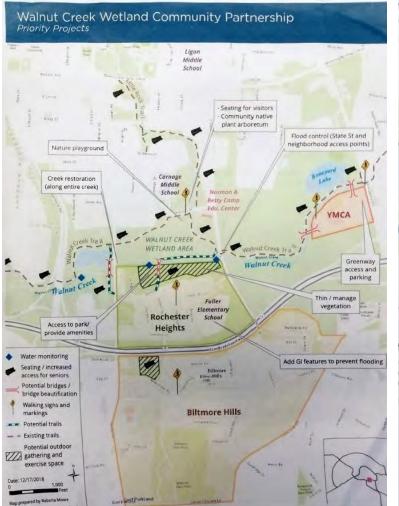
The Walnut Creek Wetland Community Partnership, the NC Water Resources Research Institute, and The Conservation Fund are working hand-in-hand with residents and a variety of partners to identify, protect, and restore land for a new park or greenspace that will provide a variety of benefits for the community.

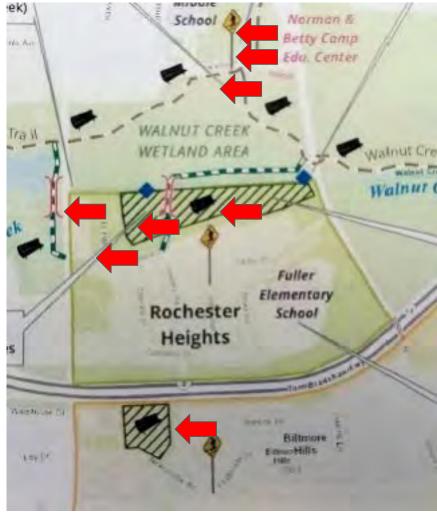
Get Involved!

We are currently working to identify a potential location and develop plans for this new greenspace. Please join us to share what you would like to see in the park, help guide the planning process, and find out more about how you can get involved.

We meet quarterly at St. Ambrose Church or the Wetland Park. Meeting details are posted at go.ncsu.edu/walnutcreekwetlandpartners

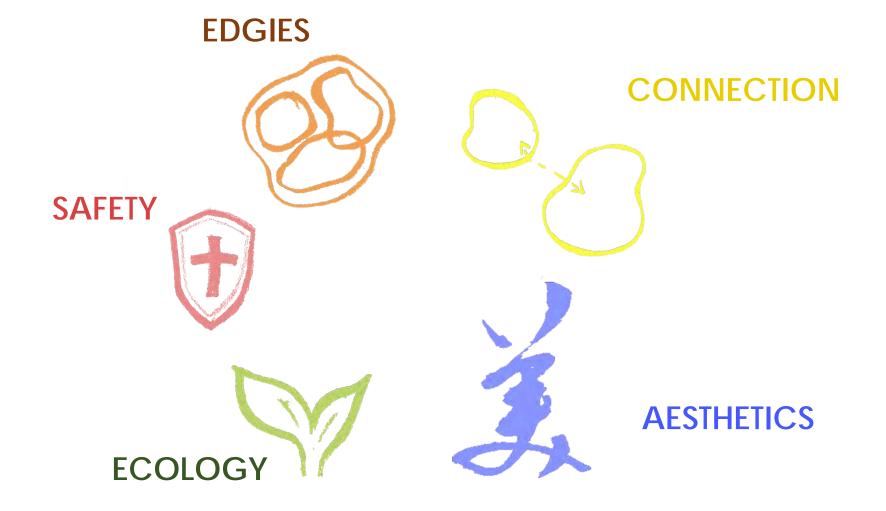






Retrofitting the Edge

LAR 502.002 LA Studio Xinyu Li





Trailwalnut CreekMain RoadPrivate RoadSidewalk

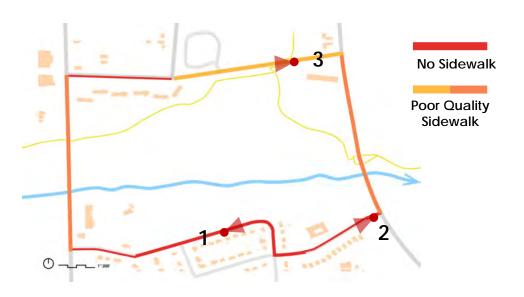
Street system

Existing condition



1 No sidewalk







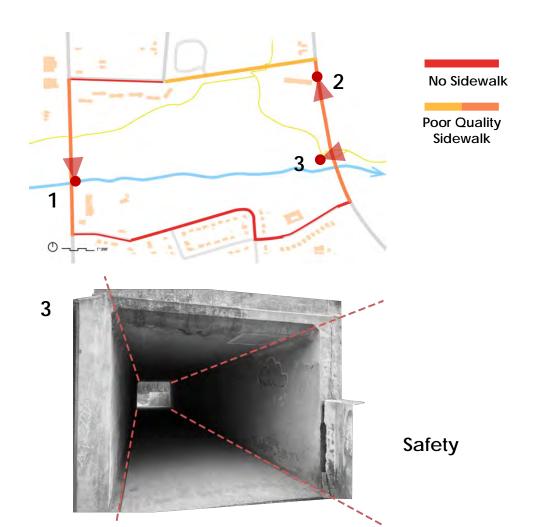
Poor Quality

Existing condition

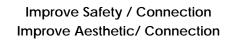


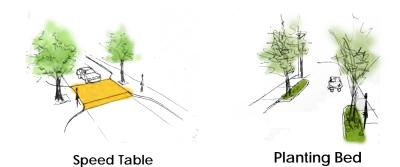
Poor Quality



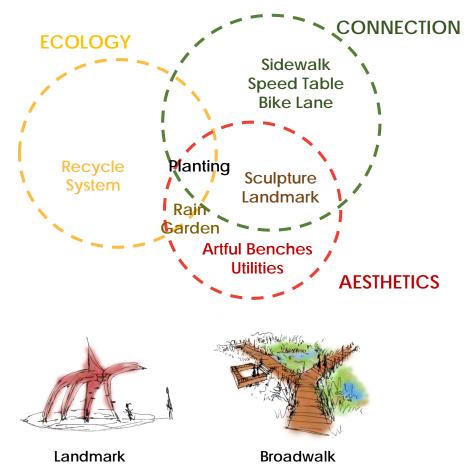


Peterson St State St Bailey Dr Daiby St Daiby St





Design Concept





Master Plan

Wetland Center

Green wall
Outdoor learning garden
Rain garden
Climbing wall
Nature play

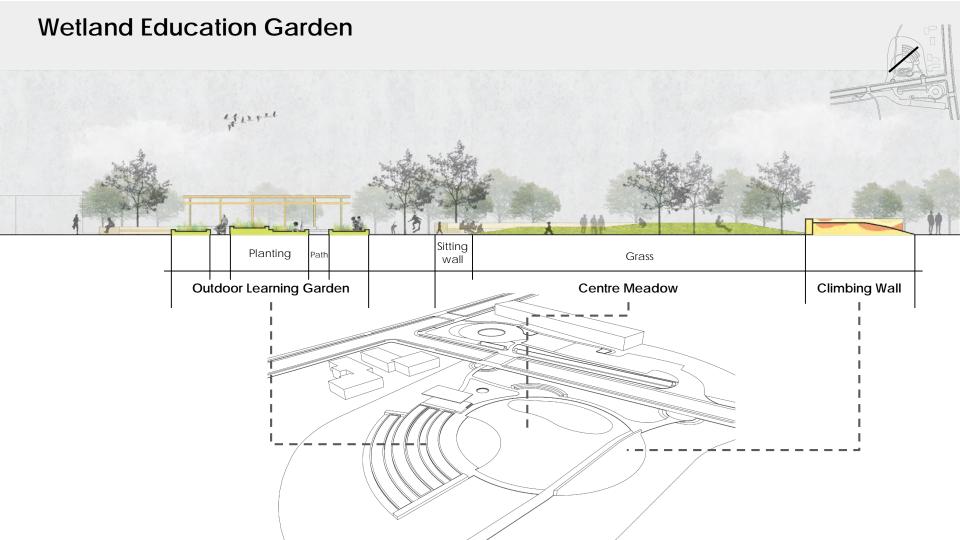
Sidewalk System

Speed Table
Planting bed
bike lane
Street Trees
Landmark(wayfinding)



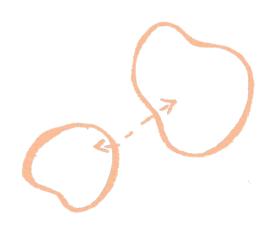








THANKS



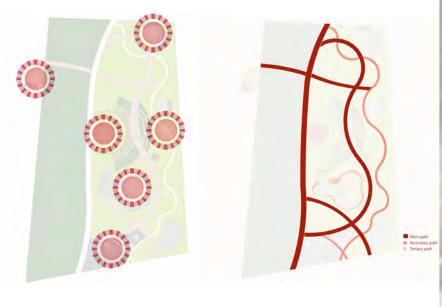
The Community Park

Tong Zhang

Context



Master Plan







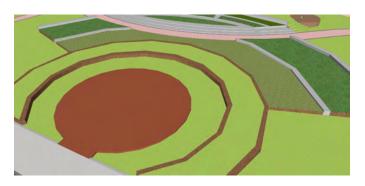
Section



SketchUp Model









Reference

Duke Garden at Duke University

















Thanks for watching!

Hear the Voice

Entrance design for Walnut Creek Wetland Park

LAR 502.002 Kofi Boone Qixuan Zhuang(Urey)

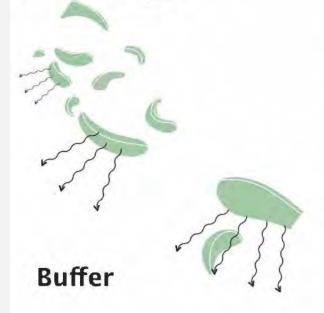
Surroundings Existing State Street Wetland Greenway *Inventory: Center Walnut Greek No high quality **Wetland Park** Little Rock habitat Creek Peterson Street Site visit: No obvious existing entrance Community Carnage Middle School Community **Focus** Existing Area **Entrance**

Existing Issue

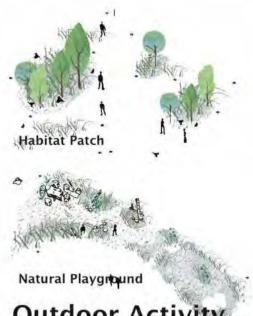




Strategy



Prevent the noise



Outdoor Activity

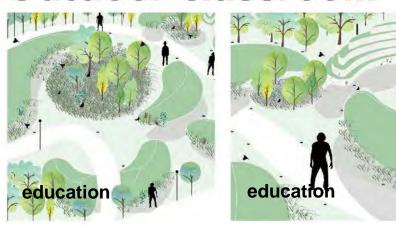
Educational purpose eg: ADELAIDE ZOO



Guide more people



Outdoor classroom

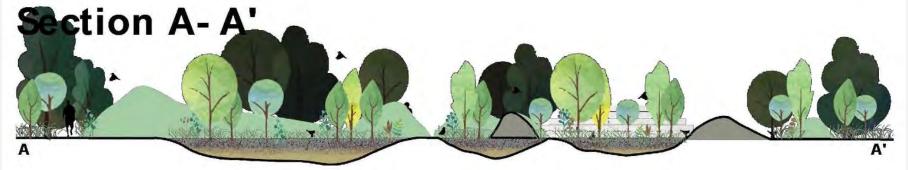






open

enclosed



Perspective Project1 Parks with Purpose LAR 502.002 Qixuan Zhuang(Urey)

Hard surface Stone

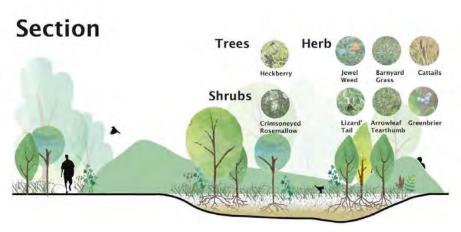
Soft surface Stone

Tree with flowers and fruit.

Protect pollution

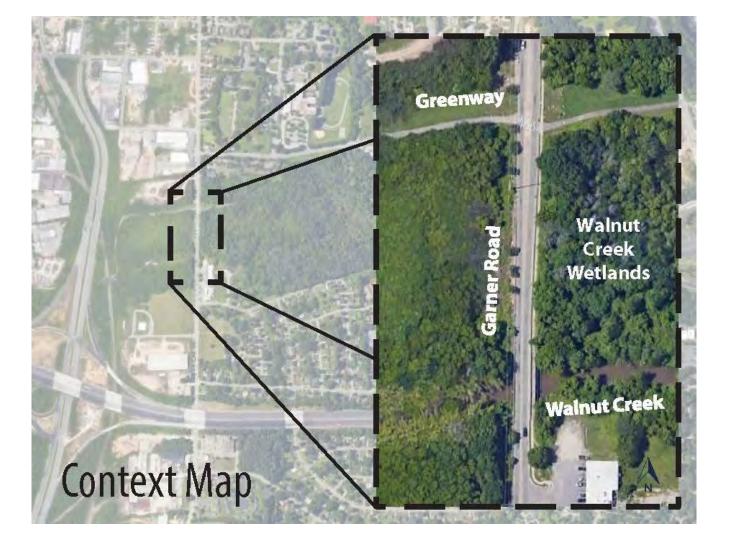
Protect pollution

Attract birds

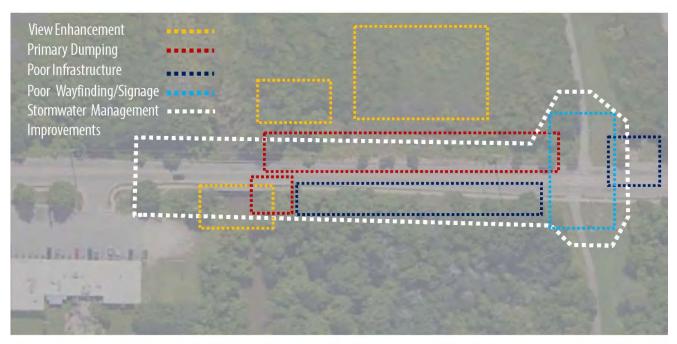


Garner Road Connection

Walnut Creek Wetlands
Alex Walters



Areas of Improvement

















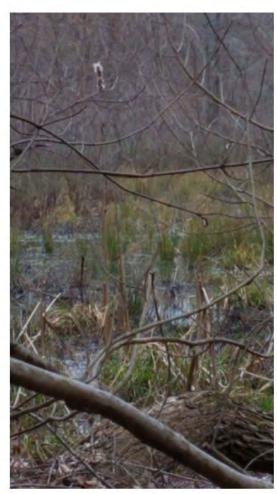




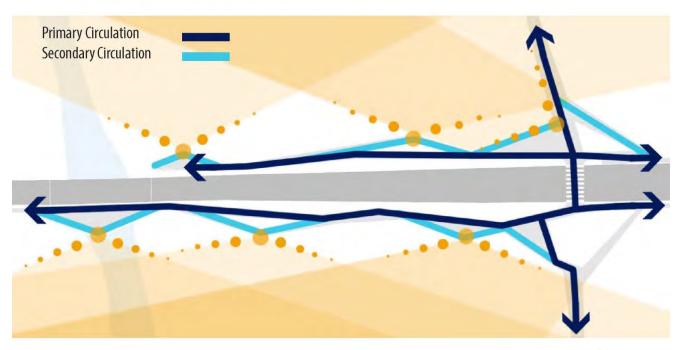




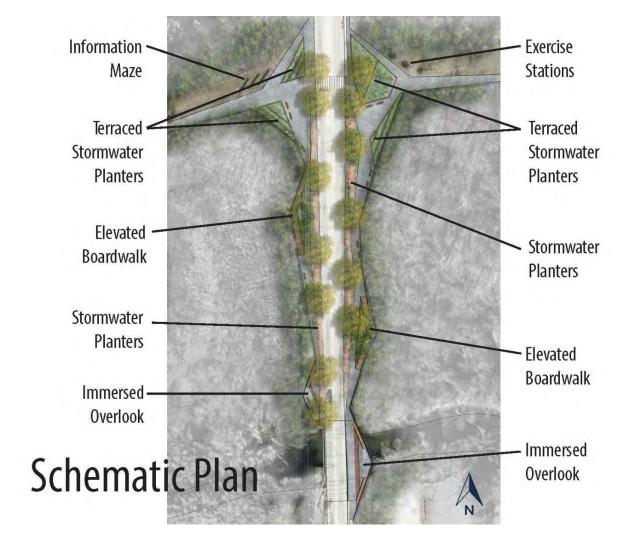




Circulation and Viewshed

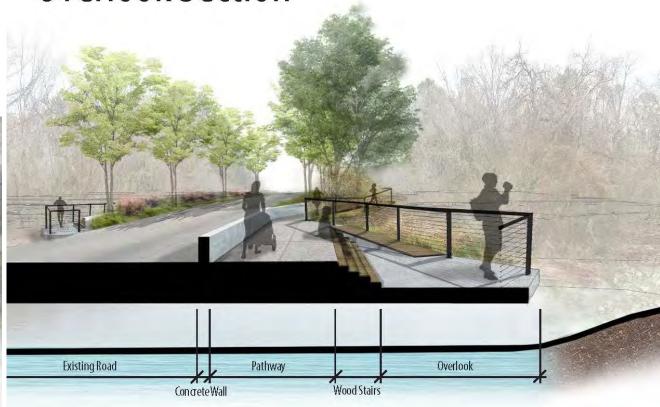






Overlook Section

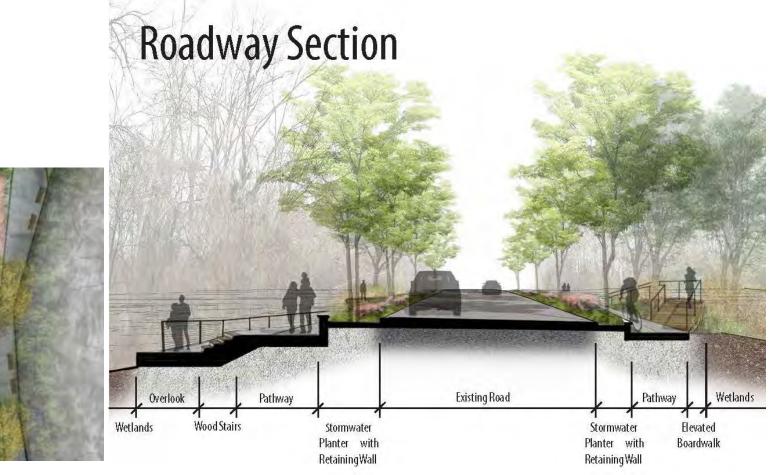




Terraced Garden Path Section













Thank You

Creating Connections to the Walnut Creek Wetlands

Hunter Williams

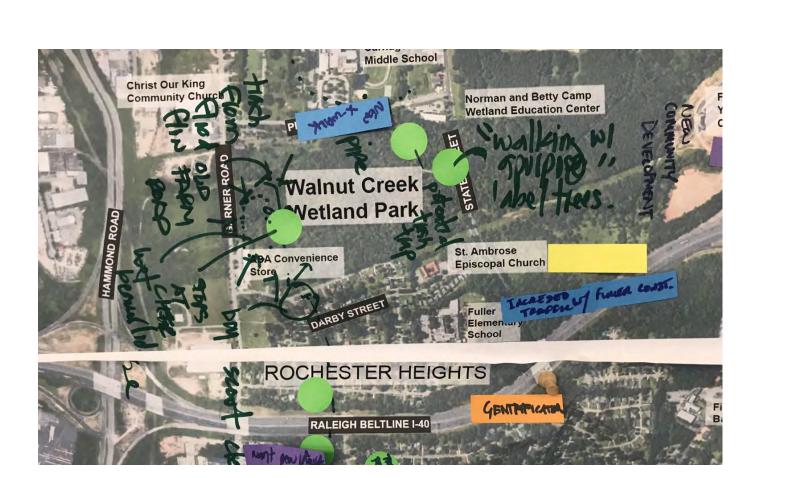
The Problem

Dumping and Invasive Plants

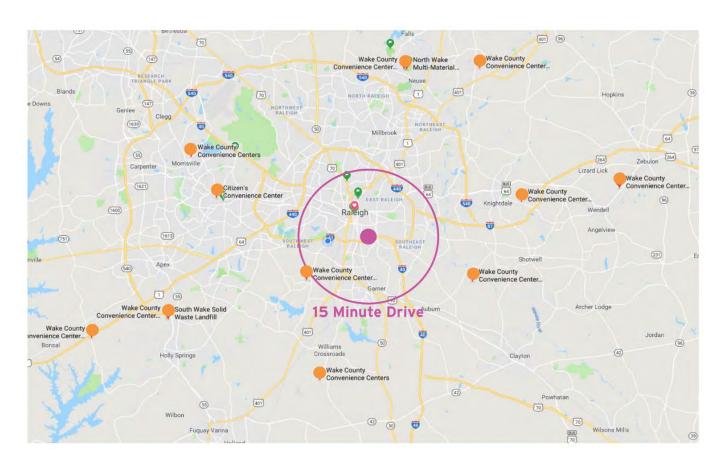


Lack of Connections and Programming





Lack of Access to Convenience Centers



The Solution



UpCycling:

Reusing products in ways to create a product of higher value

How the Center Will Work:

- 1. Drop off recyclable goods.
- **2. Organize** dropped-off goods and assist at **volunteer** events.
- **3.** Use recycled goods to *create* pieces of art, projects, inventions, etc.



UpCycled creations can be sold at markets or online stores, generating income for participants and the community.



The Center can be supported by Sustainers who give monetary funds to support maintenance, events, etc.



Volunteers can assist with sorting and organizing recycled materials dropped off at the Center and help with programming.

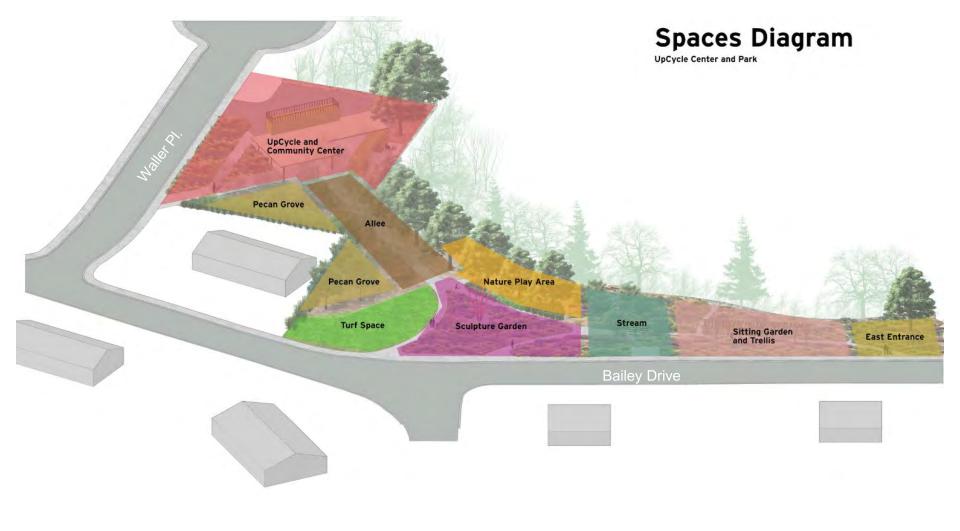


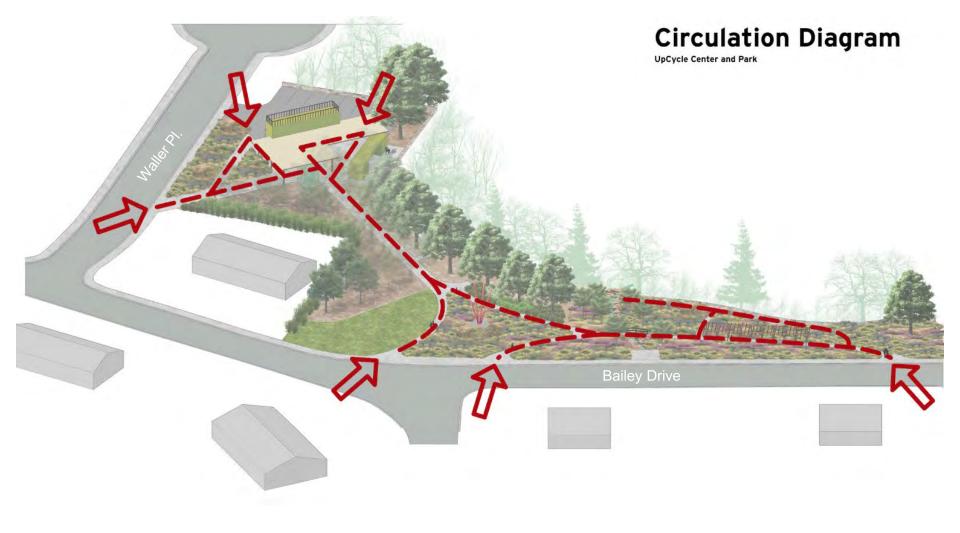
Seminars offer local residents, students, etc the opportunity to learn new skills and information from professionals.

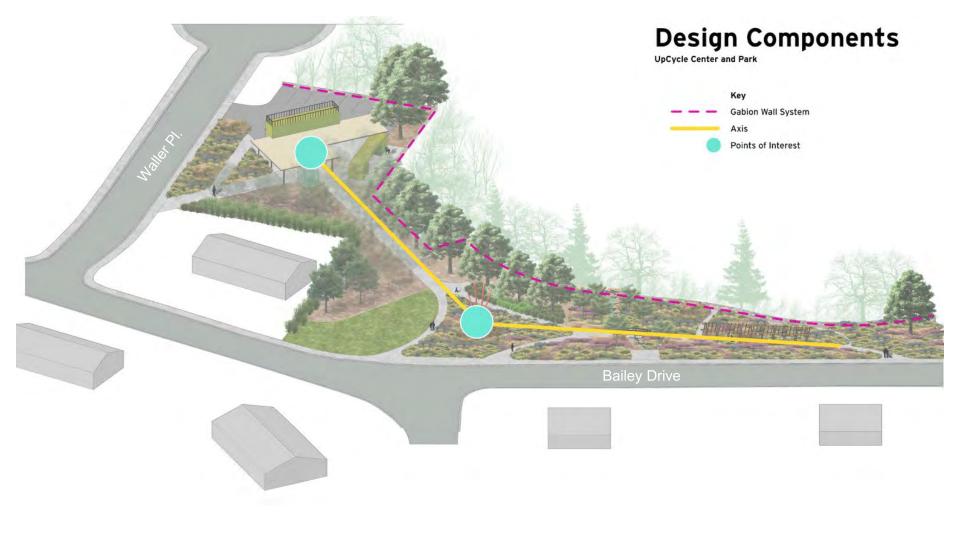
Site Selection and Concepts













Scale: 1:20





Close to the Wetland

Wetland Activity Space Design

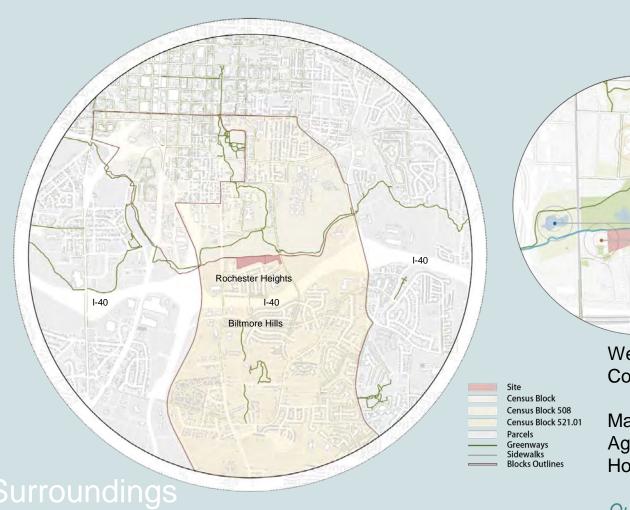
LAR 502.002 LA Studio Xinyi Liu (Sylvia)



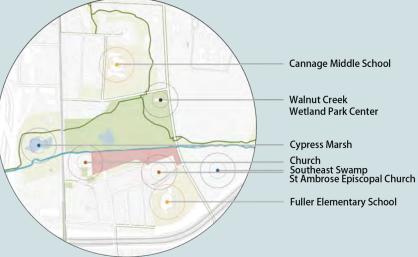
CONTEXT MAP

- Southeast of Downtown Raleigh
- South of the Walnut Creek
- Along Rochester Heights Edge and Connected to State Street
- Parks and Open Space:
 FRAGMENTATION

SITE: Centralized Green Space



CONTEXT MAP



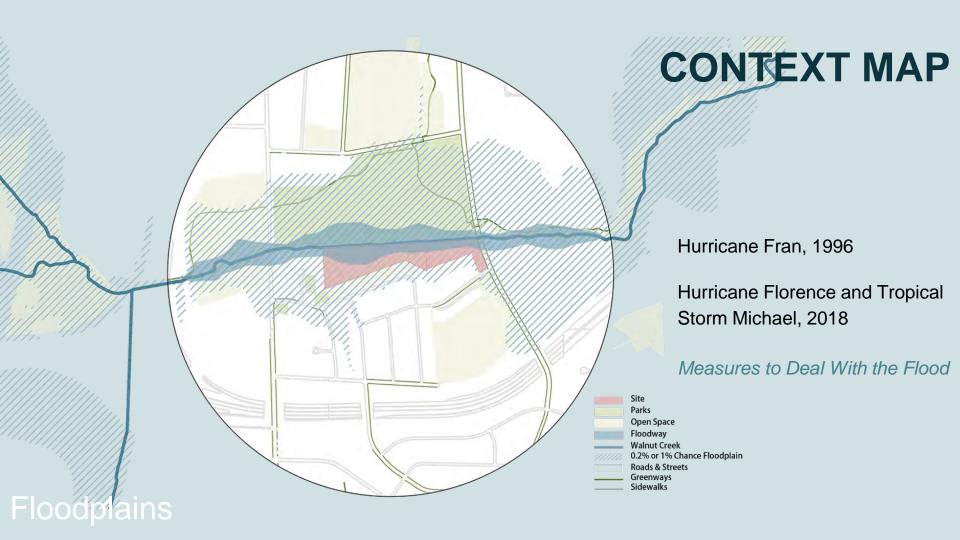
Wetland: Ecological Benefits Communities, Schools and Churches

Major Population:

Age: 18-64

Householder: Married Couples

Outdoor Activity Space



GOALS

- Support current residents and reduce displacement
- Intergenerational engagement
- Community programs and festival
- Neighborhood access to Walnut Creek and Wetland Park
- Improved stream banks and reduced flooding
- More resilient and healthy community

Serve the Communities and Schools



Have some effect on the Ecological Management

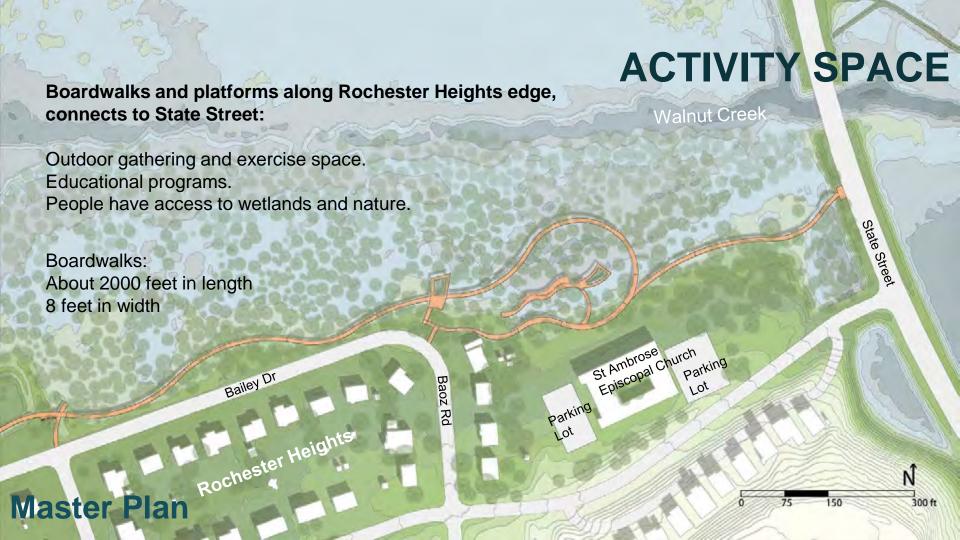
DESIGN STRATEGY

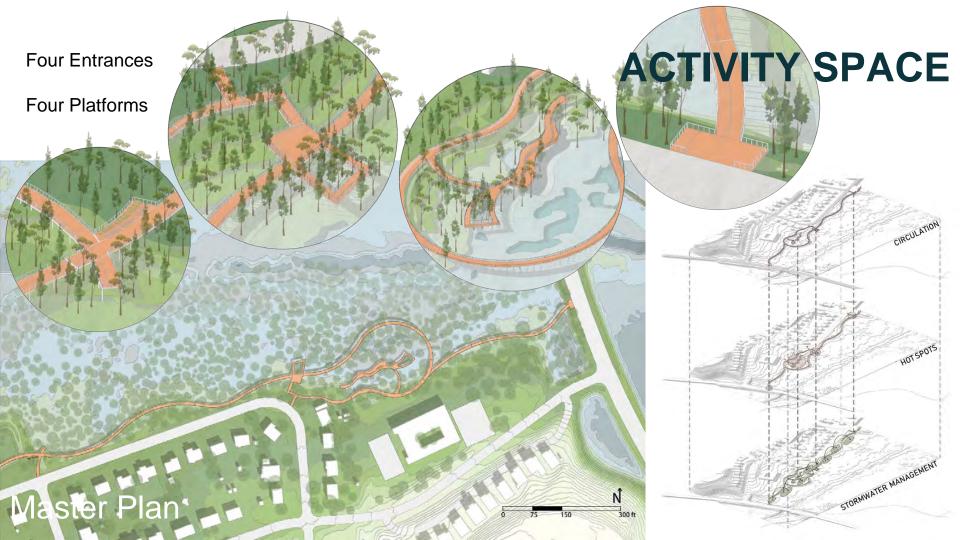
ACTIVITY SPACE



STORMWATER

MANAGEMENT





ACTIVITY SPACE SECTION

General Lowing Contours and the Extension of Boardwalks and Platform

Scenery Changes: Open to Closed Dry Grassland to Wetland



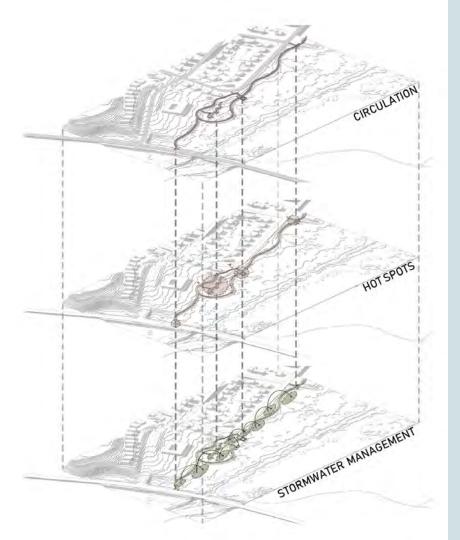
Platform: Major Gathering and Distributing Area

A Circular Boardwalk that Goes Deep into the Wetland Forest

Be Close to the Wetland





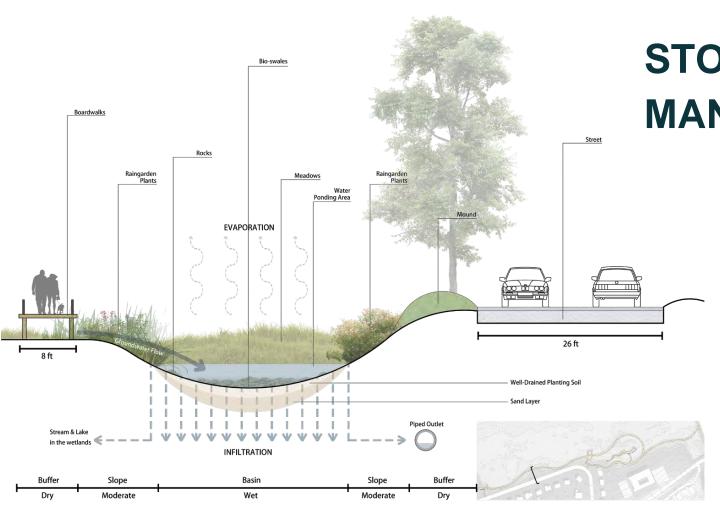


STORMWATER MANAGEMENT

BIOSWALES



RETENTION BASINS



STORMWATER MANAGEMENT

Bioswales:

Shallow Covered with Vegetation

Guide Runoff Slow the Flow Reduce the Pollution

Retention Basins:

Low-lying Layers: rock, sand, soil Rainwater Garden Plants

Collect Runoff
Infiltration
Go into Pipes
Remove the Pollution

THANK YOU

SAVE THE CREEK Parks with Purpose

Shuang Wu

Site Photos





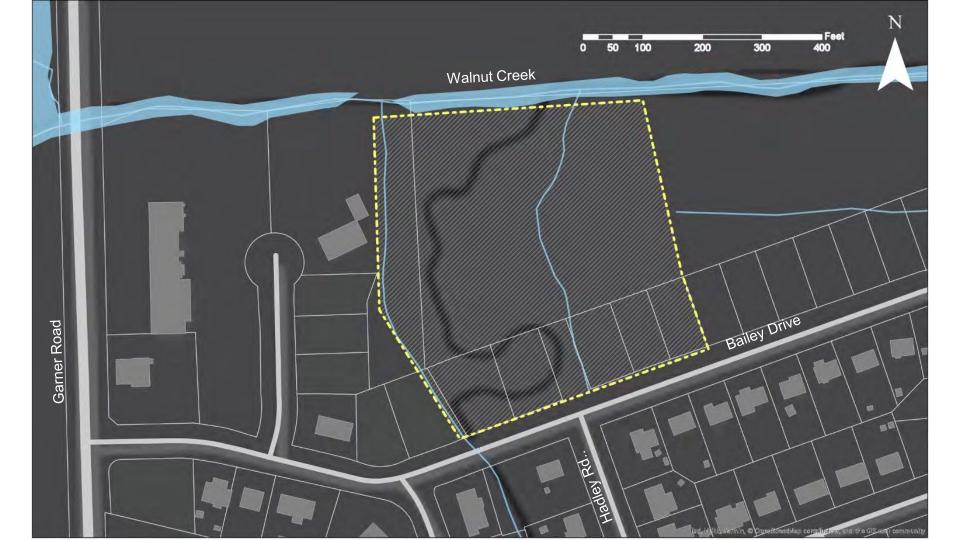


POLLUTION

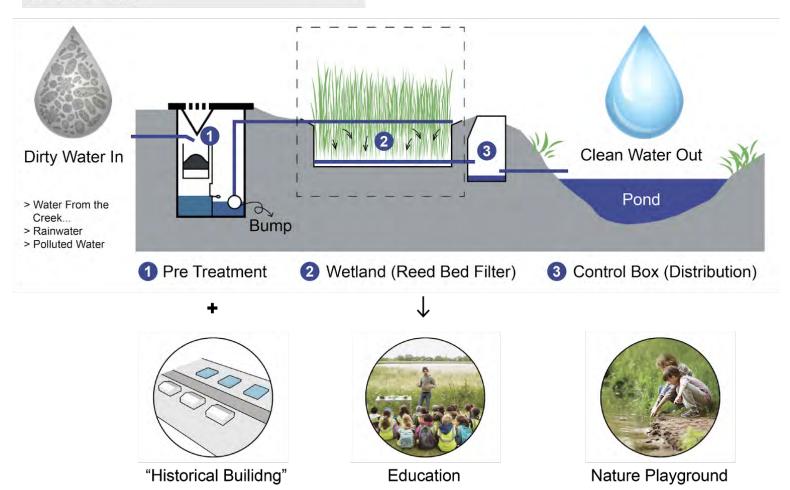
DUMPING

SIDEWALK?





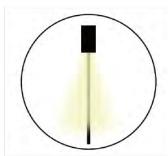
Water Quality



Safety







Lights



From

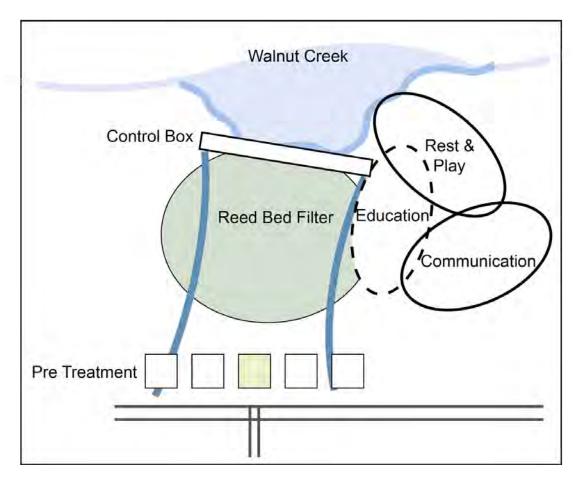


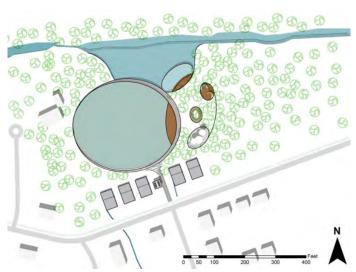
Solar PV System

Communication Hub for Residents

- > Information Island
- > Children's corner
- > Outdoor Gathering Space
- > Water World

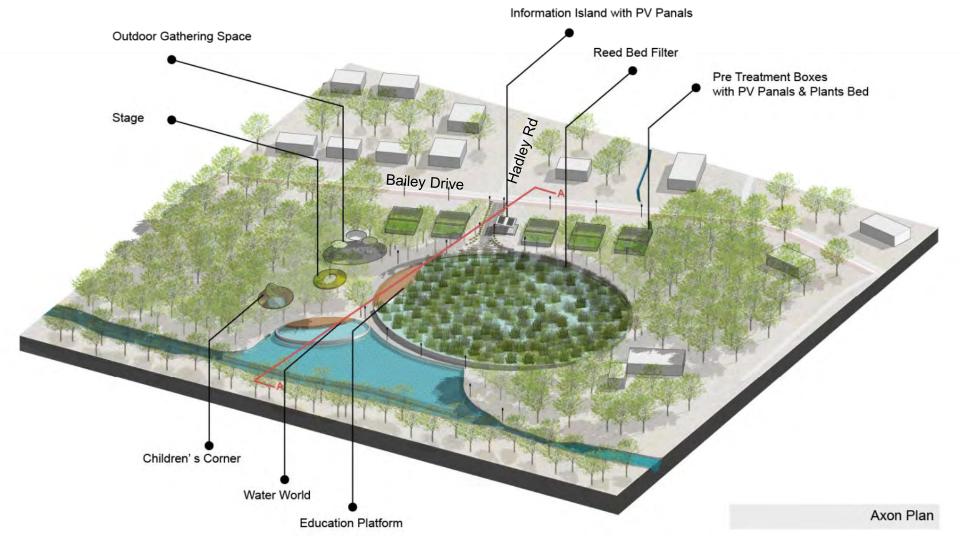
Concept Diagram







Entrance (Information Island)



Sitting Area near Reed Bed Filter

Solar Panel System

- Collect solar energy on day time
- Provide energy at night



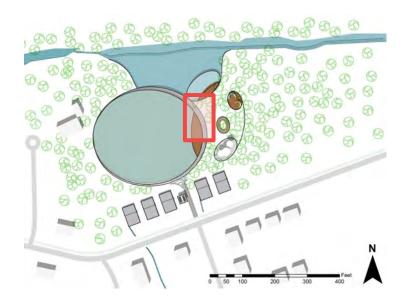
Day Night





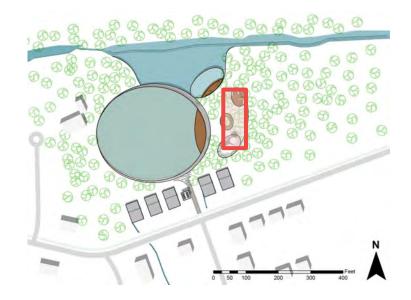
Education

Wetland Water Protection





Communication



Native plants provide shading in summer



Summer



Winter

Thank You

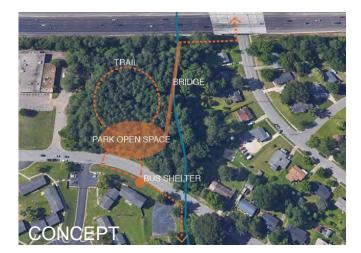
Little Creek Trail and Rochester Park Project

Eva Pratt

CONTEXT MAP & SITE LOCATION

SITE REQUIREMENTS:

- SOUTH OF WALNUT CREEK
- ALIGNS WITH PWP PRIORITY AREAS
- ACCESSIBLE TO ROCHESTER HEIGHTS AND BILTMORE HILLS
- NEAR WATER





PROJECT GOALS

TO RECONNECT THE ROCHESTER HEIGHTS AND BILTMORE HILLS NEIGHBORHOODS

TO CREATE A SPACE FOR GATHERING AND PLAY

TO PROMOTE HEALTHY EXERCISE

TO PROVIDE VISUAL ACCESS TO THE CREEK

TO INCREASE NEIGHBORHOOD WALKABILITY





PEDESTRIAN LANE AND SIDEWALKS

MURAL

NATURE PLAY AREA

PARK SHELTERS

OUTDOOR EATING SPACE

CREEK OVERLOOK BRIDGE

LITTLE CREEK TRAIL

EXERCISE STATIONS

BUS SHELTERS



PEDESTRIAN LANE



ROCHESTER PARK



MURAL



LITTLE CREEK TRAIL



PEDESTRIAN LANE AND SIDEWALKS

MURAL

NATURE PLAY AREA

PARK SHELTERS

OUTDOOR EATING SPACE

CREEK OVERLOOK BRIDGE

LITTLE CREEK TRAIL

EXERCISE STATIONS

BUS SHELTERS



PEDESTRIAN LANE



PEDESTRIAN LANE AND SIDEWALKS

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LITTLE CREEK TRAIL

EXERCISE STATIONS

BUS SHELTERS

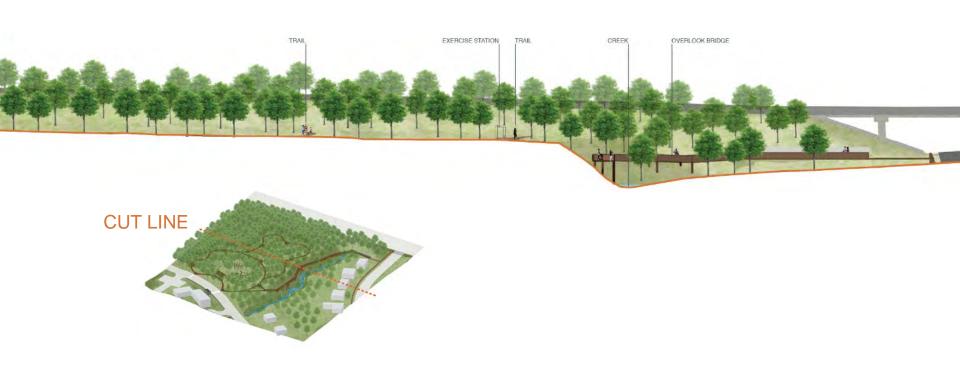


LITTLE CREEK TRAIL





ROCHESTER PARK SECTION



Thank You