REBUILDBYDESIGN

MEADOWLANDS

CITIZEN ADVISORY GROUP MEETING



OCTOBER 28, 2020



ON-LINE MEETING TECH SUPPORT Teams Meeting Resources

- + All participants will be on mute for the meeting.
- + Question & Answer will be facilitated at the end of the meeting. Send us Your Questions by:
 - Chat: Use the Teams Meeting.
 - Click the Chat Icon and type in Chat Window
 - Email: rbd-meadowlands@dep.nj.gov

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Technical Troubleshooting Resources

- + Email: rbd-meadowlands@dep.nj.gov
- + View Project Information on the Website: <u>www.rbd-meadowlands.nj.gov</u>

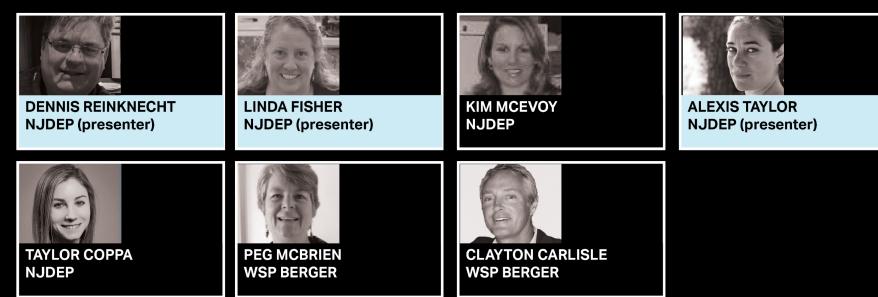


AGENDA

Welcome + Introductions Project Overview Coordination Updates Design Updates Next Steps



NJDEP TEAM





DESIGN TEAM



CHRISTOPHER BENOSKY Project Executive, AECOM (presenter)



DAVE BLAIR Project Manager, AECOM (presenter)



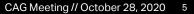
ANNA HOCHHALTER Landscape Architect, AECOM (presenter)



STEVE BIUSO Design Manager, AECOM



HOGAN EDELBERG Landscape Architecture and Urban Design, AECOM





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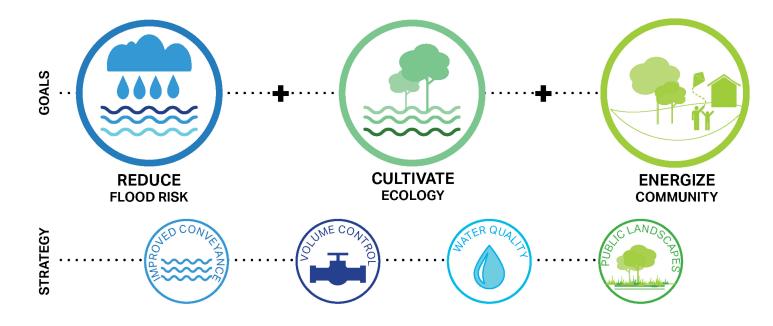
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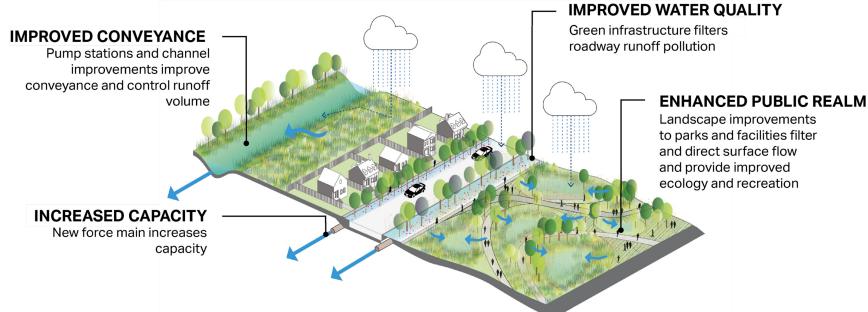
PROJECT OVERVIEW ANNA HOCHHALTER, AECOM

The RBDM project meets the CDBG-DR Goals of addressing flood risk, increasing resiliency of communities + ecosystems, and reducing impacts to critical infrastructure, residences, businesses and ecological resources





The project approach improves flood risk reduction through grey infrastructure, and enhances the landscape + public realm performance by improving water quality and parks+ open spaces

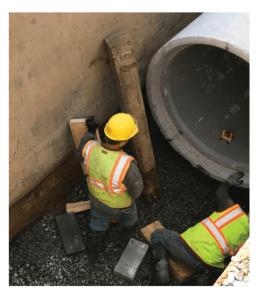




Flood Risk Reduction Strategy



PUMP STATIONS Provide additional force to stormwater conveyance



STORMWATER FORCE MAIN Increases capacity for conveyance



CHANNEL IMPROVEMENTS Dredging + widening to improve conveyance



Landscape + Public Realm Strategy



NATIVE PLANTING Planting native species improves ecological biodiversity and improves rain water uptake



GREEN INFRASTRUCTURE Methods of filtering and slowing stormwater to improve water quality + reduce burden on drainage system



IMPROVED + NEW PARKS Designing ecological, community + recreational benefits



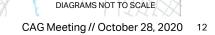
Project Features include Grey Infrastructure + Landscape + Public Realm improvements throughout the Project Area

INFRASTRUCTURE (priority)

- East Riser Pump Station + Channel Improvements
- 2 Losen Slote Liberty St. Pump Station +Force Main

LANDSCAPE + PUBLIC REALM

- (3) Joseph St. Park
- (4) Memorial Middle School
- (5) Little Ferry Library + Municipal Bldg
- 6 New Riverfront Park
- (7) Streetside Green Infrastructure
 - -Type Improvements



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SOUTH HACKENSACK

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LITTLE FERRY

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SOUTH

HACKENSACK

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TETERBORO

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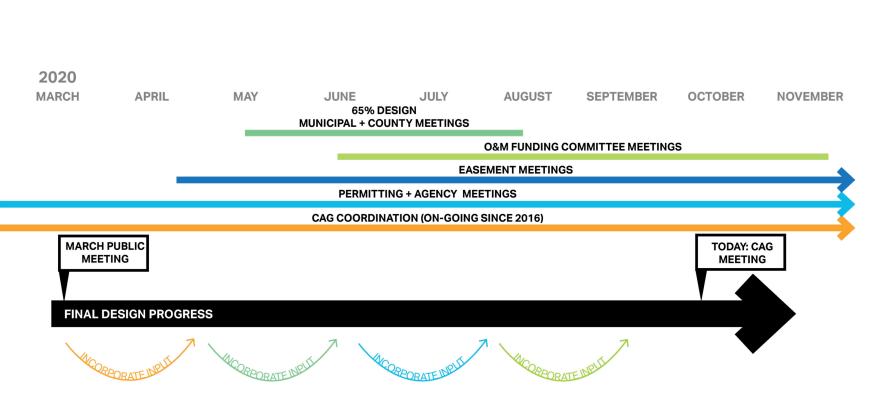
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COORDINATION UPDATES

DAVID BLAIR, AECOM

ON-GOING COORDINATION







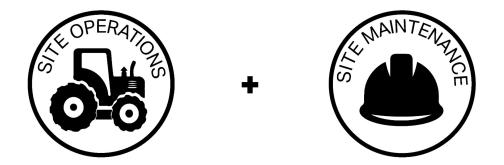
BALANCING PRIORITIES + BUDGET

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OPERATION & MAINTENANCE UPDATES

- Detailed discussions of operations tasks and frequency with Municipalities
- Municipal-led inter-agency coordination
- Long-term O&M agreements to be in place by end of 2020





SOUTH HACKENSACK 463 17 LITTLE FERRY TETERBORO 5 MOONACHIE RIVER CREEK BERRY JA SOUTH CARLSTADT HACKENSACK

Design models continue to be refined to support permitting

REDUCE FLOOD RISK

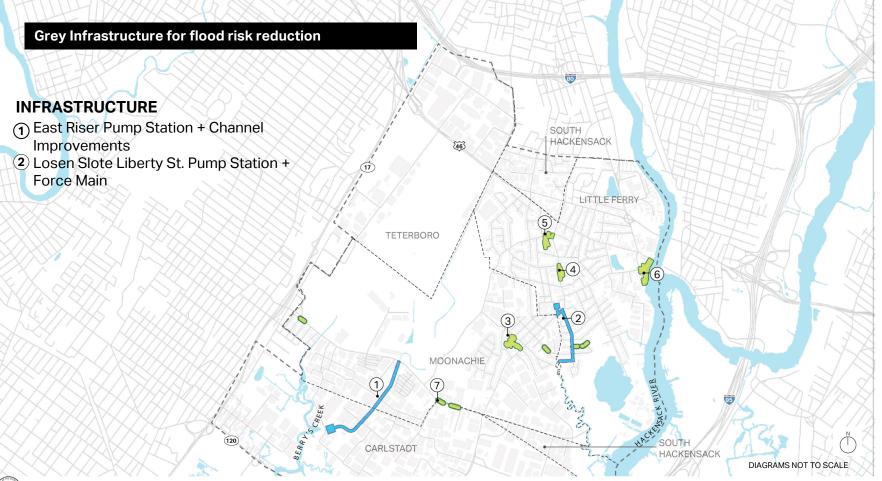
Losen Slote modeling completed and confirmed no increase in water surface elevation downstream.

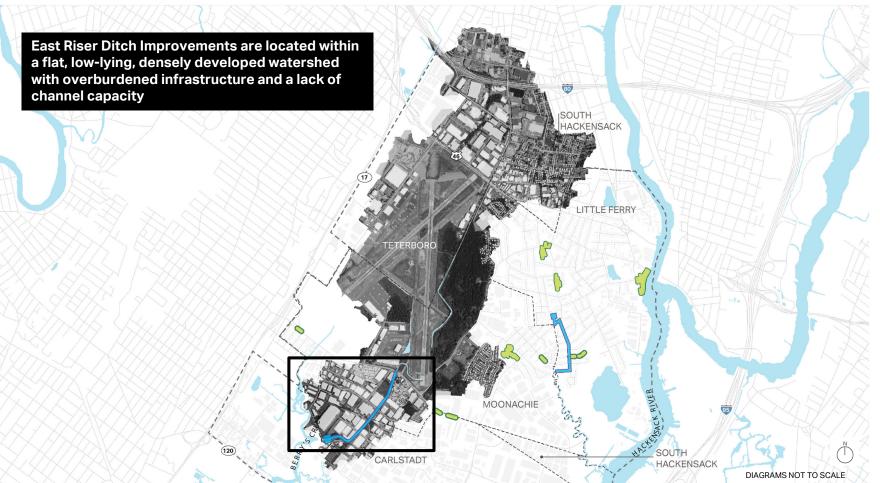
East Riser modeling is still in-process.



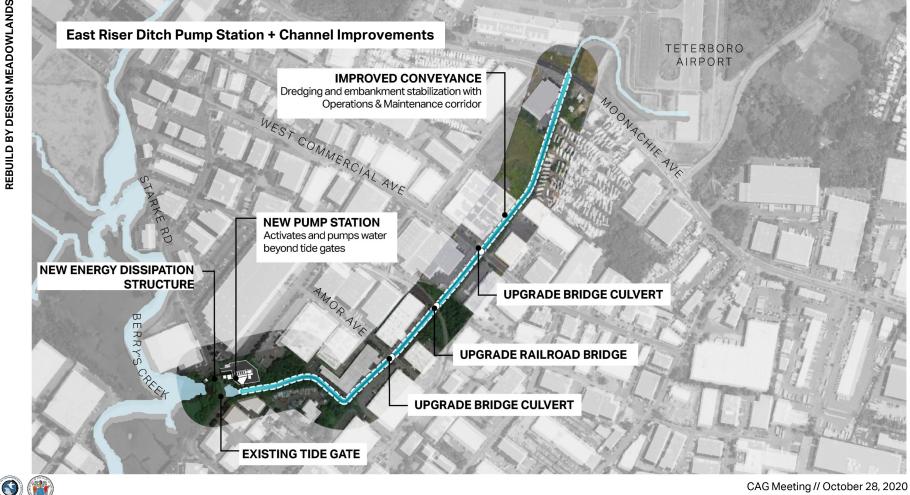
DESIGN UPDATES

DAVID BLAIR, AECOM ANNA HOCHHALTER, AECOM









East Riser Ditch Pump Station + Channel Improvements

INCREASED CONVEYANCE NETWORK

Dredging + embankment stabilization increases capacity

MAINTENANCE ACCESS

Bar rack collects debris from channel, stationary grapples remove debris to be hauled away, and an O&M corridor runs along the channel

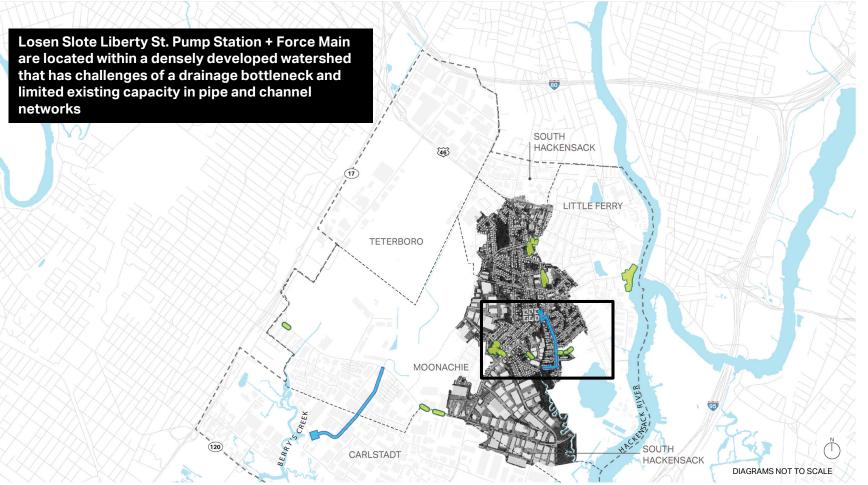
ENHANCED BIODIVERSITY

Native plantings are placed in vegetated geolifts, areas of in-channel wetlands, and riparian corridor where feasible





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Losen Slote Liberty St. Pump Station + Force Main

INCREASED CONVEYANCE NETWORK Inlet is connected to pump station with 36-inch diameter pipeline and outflow into Losen Slote

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REDUCED EXISTING FLOW BOTTLENECK

New pump station activates when water elevation

in existing pipe is ~75% of pipe diameter and

pumps to new force main

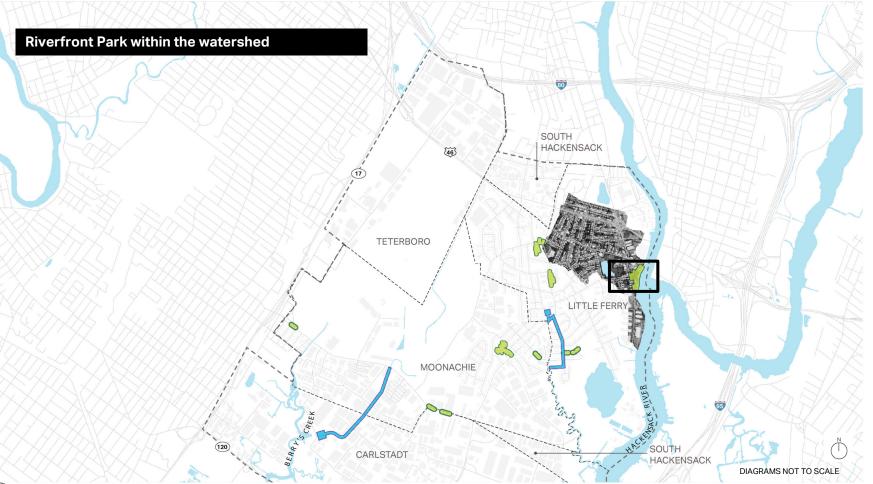
LIBERTY ST

IMPROVED NETWORK RELIABILITY Pump station capacity is 50 cfs with three 25 cfs pumps (one spare)

ECKEL RD

Landscape + Public Realm improvements are within public right-of-ways, parks or public facilities. Riverfront Park, a new public park, is located on the Hackensack River. 80 LANDSCAPE + PUBLIC REALM SOUTH HACKENSACK (46) 3 Joseph St. Park Memorial Middle School (4) LITTLE FERRY (5) Little Ferry Library + Municipal Bldg 5 (6) New Riverfront Park TETERBORO (7) Streetside Green Infrastructure -4 -6 -Type Improvements 3 MOONACHIE RIVER SERPLS CREEK 120 SOUTH CARLSTADT HACKENSACK DIAGRAMS NOT TO SCALE







Community input guided design decisions about program priorities and the character of the park planting, paving, screening and furnishings

> **DISCUSSION-FOCUSED** Breakout groups to discuss

park character

IVERFRONT PARK PRI

- UNDERSTANDING PRIORITIES Activities to provide input on park program priorities

- INFORMATIVE Client + Design Staff shared information about the project







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Lush native gardens with areas for quiet seating or small group gathering



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Riverfront Park Performance

ENHANCED PLACEMAKING

Provides a new Hackensack River waterfront recreation opportunity for the community

INCREASED BIODIVERSITY

Low marsh, high marsh, maritime shrub, water-loving gardens, multi-story uplands, and native upland gardens provide food and shelter for diverse species

IMPROVED WATER MANAGEMENT

With +75 new trees and +1 acre of new planting, stormwater drains into areas with deep-rooted plants that absorb, filter, and uptake runoff

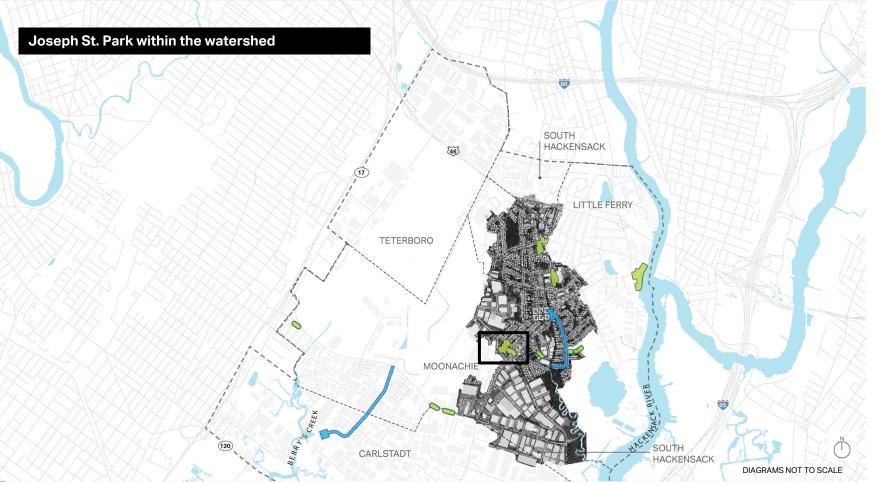
MODIFIED SOIL CONDITIONS

Existing soil contamination is either removed or covered. Upland planting soil is rich loam while tidal wetland soil is sandy

TIDAL FLUCTUATIONS

Shoreline is designed to thrive with daily fluctuations and allows future wetland migration with sea level rise











Joseph St. Park Performance

REDUCED IMPERVIOUS SURFACE Through Permeable Interlocking Concrete Pavers, run-off

is temporarily stored during rain events and achieves an 80% Total Suspended Solids (TSS) reduction

ENHANCED PLACEMAKING

Planting improves the visual experience in the park with flowers and shrubs near the Senior Center and Civic Center entrances and by screening adjacent properties

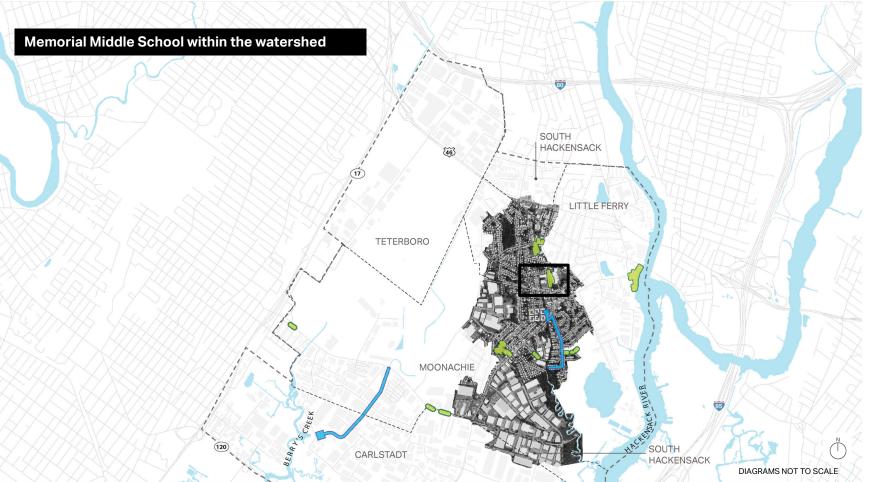
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IMPROVED WATER QUALITY -

Where groundwater depth is too high, downspout planters provide a system to filter roof runoff through, plant uptake and a stone storage bed

INCREASED BIODIVERSITY Native planting provides food and shelter for pollinators and other native species

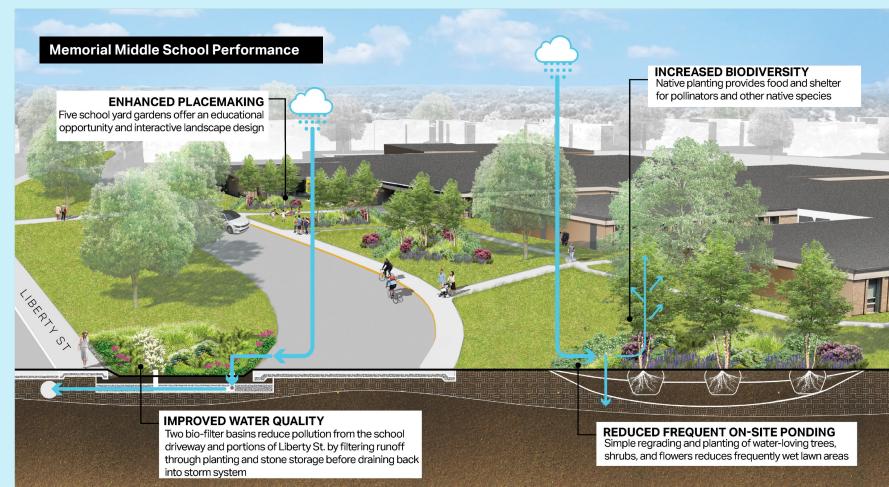






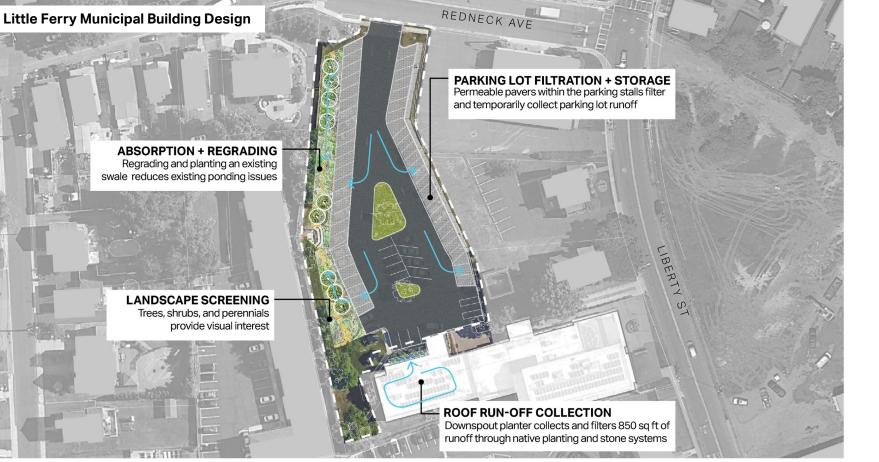














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Little Ferry Municipal Building Performance

IMPROVED WATER QUALITY

Where groundwater depth is too high, downspout planters provide a system to filter roof runoff through, plant uptake and a stone storage bed

ENHANCED PLACEMAKING

Planting areas improve the visual experience for community visitors or employees of the Borough Hall and Police Department

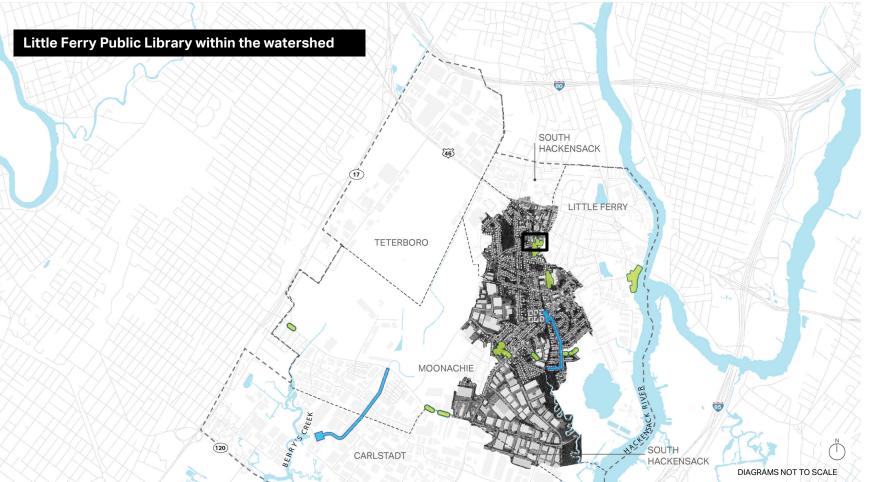
REDUCED IMPERVIOUS SURFACE

Through Permeable Interlocking Concrete Pavers, run-off is temporarily stored during rain events and achieves an 80% Total Suspended Solids (TSS) reduction

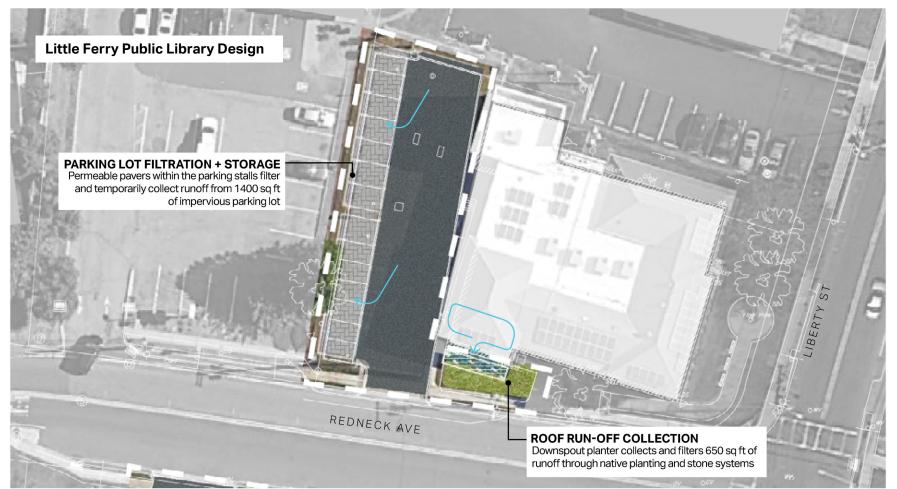
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INCREASED BIODIVERSITY Native planting provides food and shelter for pollinators and other native species









Little Ferry Public Library Performance

INCREASED BIODIVERSITY Native planting provides food and shelter for pollinators and other native species

ENHANCED PLACEMAKING

Custom planters include an interpretive plaque showing the Hackensack River watershed network

REDUCED IMPERVIOUS SURFACE Through Permeable Interlocking Concrete Pavers, run-off

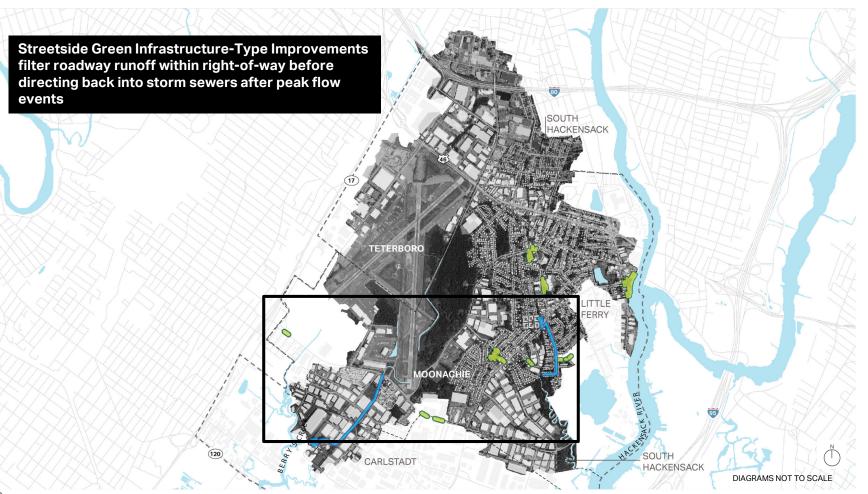
is temporarily stored during rain events and achieves an 80% Total Suspended Solids (TSS) reduction

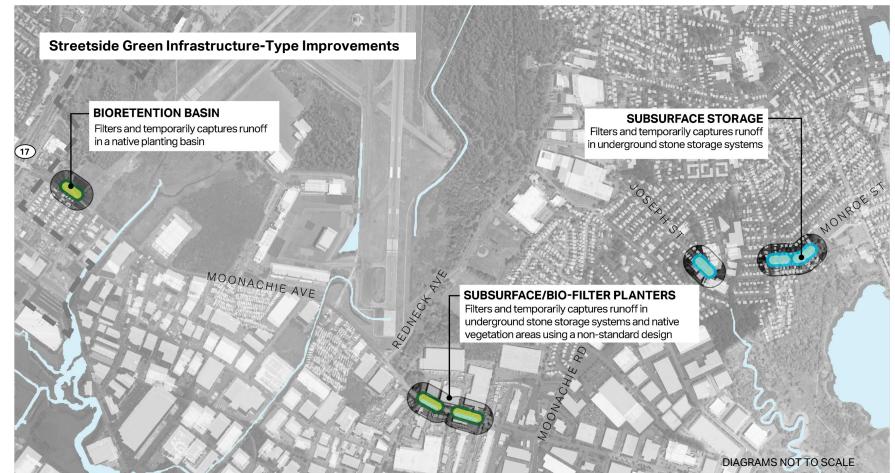
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IMPROVED WATER QUALITY

Where groundwater depth is too high, downspout planters provide a system to filter roof runoff through, plant uptake and stone storage bed REDNECK AVE

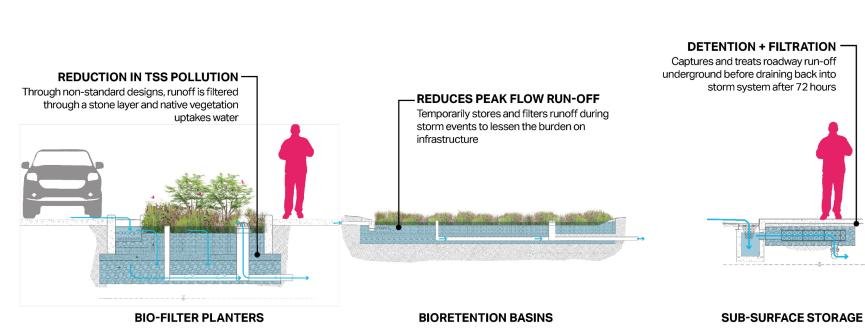








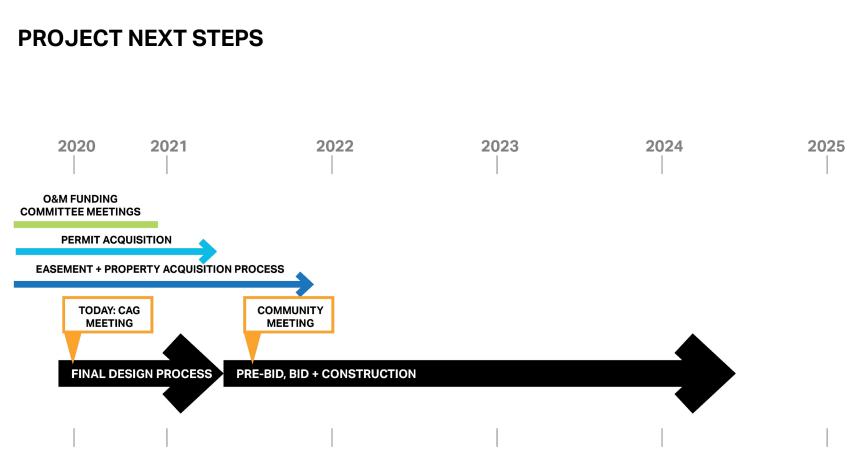
Streetside Green Infrastructure-type Performance



NEXT STEPS

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DAVE BLAIR, AECOM ALEXIS TAYLOR, DEP





LONG-TERM CAG GOALS

- What do you envision for the future of the CAG after the project design completion?
- In what ways will you want to be involved?
- How might you help facilitate the completion of the full vision of RBDM?
- RBDM developing additional materials to support future/on-going efforts



EDUCATE



ENGAGE



LEVERAGE



Question & Answer

Website

www.rbd-meadowlands.nj.gov

Email

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