

Welcome!

Live Spanish Translation Available

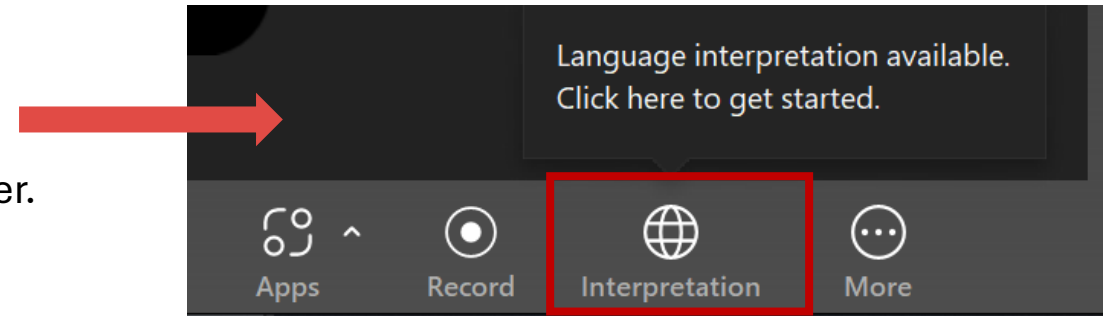
You can listen to a live Spanish interpretation of today's meeting on Zoom

How to Access:

1. Click the “Interpretation” icon (🌐) on the Zoom menu bar.
2. Select “Spanish” from the list of languages.
3. (Optional) Click “Mute Original Audio” to hear only the interpreter.

Need Help?

Drop a question in the chat or raise your hand for support.



Traducción simultánea al español disponible

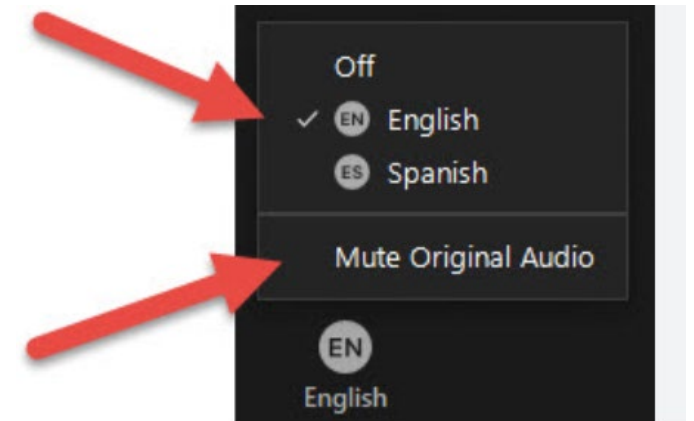
Puedes escuchar la interpretación en vivo al español de la reunión de hoy en Zoom

¿Cómo acceder?

1. Haz clic en el ícono de “Interpretación” (🌐) en la barra de herramientas de Zoom.
2. Selecciona “Español” en la lista de idiomas.
3. (Opcional) Haz clic en “Silenciar audio original” para escuchar solo al intérprete.

¿Necesitas ayuda?

Escribe tu pregunta en el chat o levanta la mano para recibir asistencia.





NYCDEP East New York Cloudburst Hub Update Webinar

August 12, 2025



Assemblage Landscape Architecture, DPC

What We'll Cover

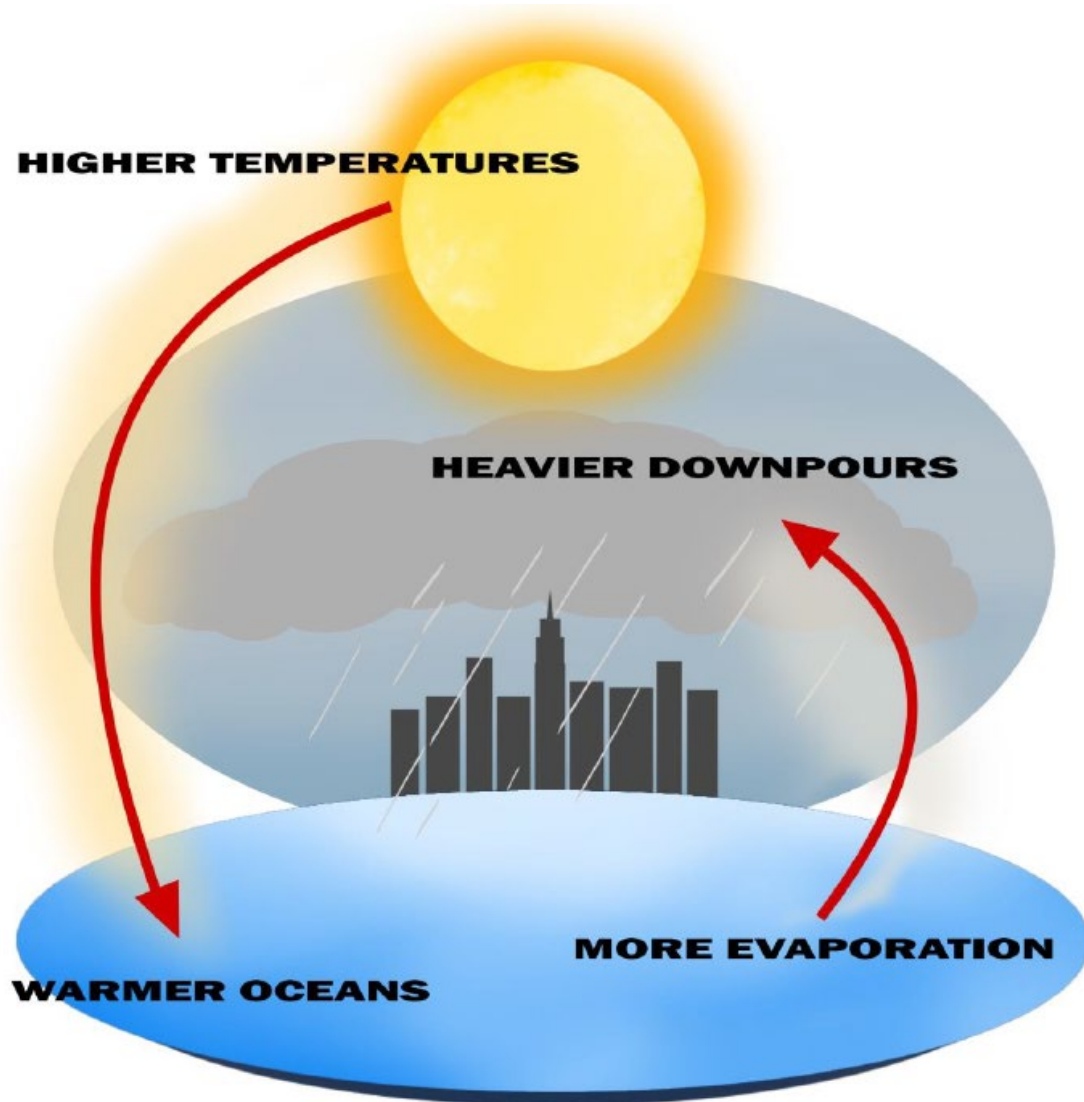
1. Cloudburst and East New York Hub Overview
2. Stormwater Management Schematic
3. ENY Community Outreach & Events
4. Proposed Enhancements in Wyckoff Triangle & Linden Park
5. Feedback
6. Next Steps

The Problem

**Climate change is
causing more
localized flooding
across NYC**



Our Changing Climate



Sudden, powerful storms are bringing more **intense rainfall** to New York City.

In 2020 NOAA (National Oceanic and Atmospheric Administration) **reclassified NYC** from a “**coastal temperate**” climate zone to a “**humid subtropical**” climate zone.

- August 2021 (Henri) – 1.94 inches in an hour
- **September 2021 (Ida) – 3.15 inches in an hour**
- July 14, 2025 – 2.07 inches in an hour

In 2023, NYC experienced **rain every 3 days**.



What is a cloudburst?

A cloudburst is a sudden, heavy downpour where a lot of rain falls in a short amount of time. Cloudbursts can cause flooding, damage property, disrupt critical infrastructure, and pollute New York's rivers and Harbor.

There are several different types of flooding that New Yorkers may experience, either combined or in isolation during a flooding event.

Overland Flooding

Occurs when rainwater flows downhill over the land and collects in low-lying areas.



Groundwater Flooding

Occurs when the ground becomes saturated with water, either due to historic waterways below the surface, or when prolonged rain leads to oversaturation.



Photo Credit: The City



System Surcharging

Occurs when the sewer system is unable to properly convey the flow during a rainfall event.



Photo Credit: NY Daily News

Coastal Flooding

Occurs when rising tides or storm surges push ocean water over the coastline.

There are compounding conditions that cause flooding in the neighborhood

Overland Flooding:

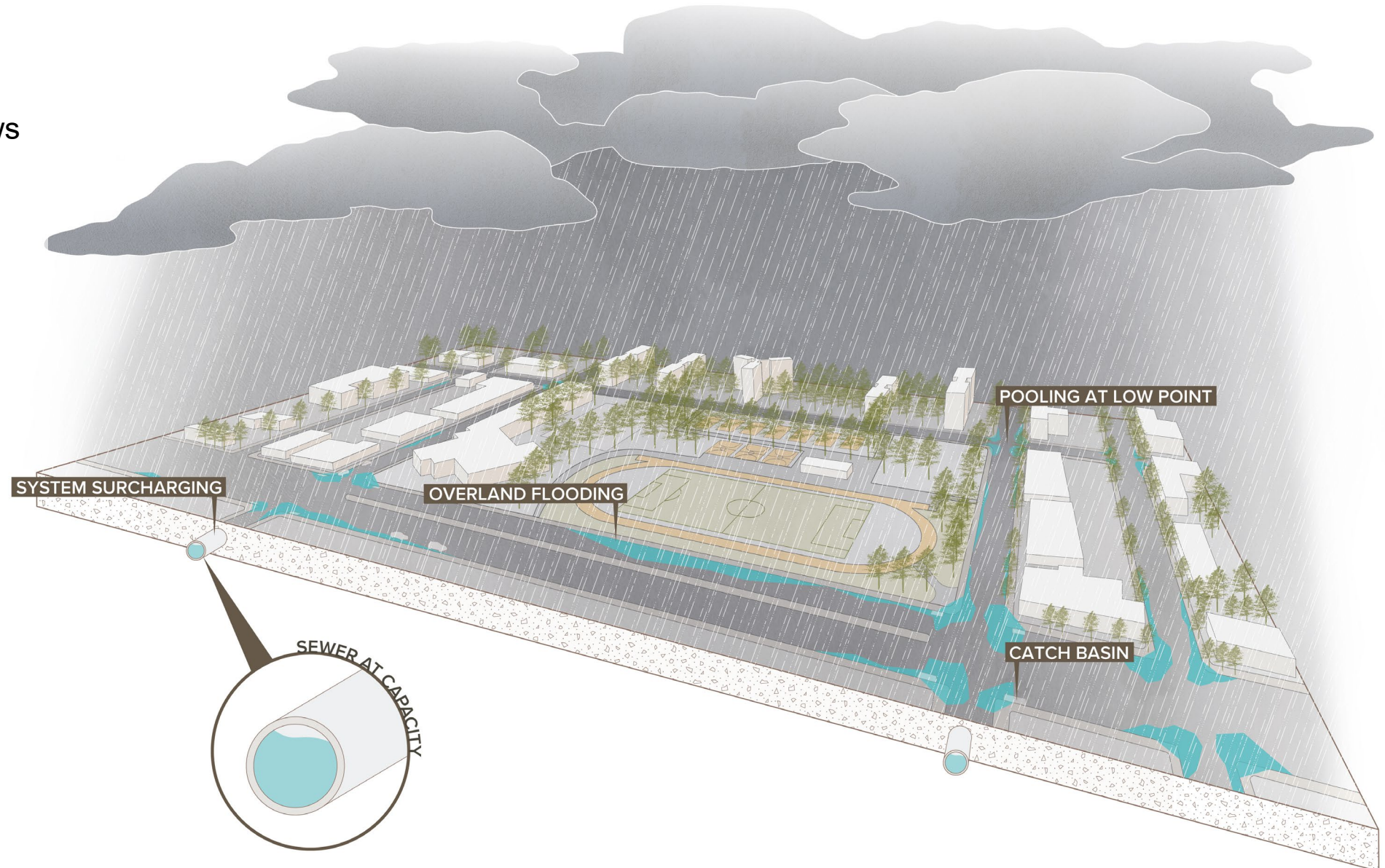
Occurs when rainwater flows downhill over paved areas

System Surcharging:

Occurs when the sewer system is at capacity during a rainfall event

Pooling at Roadways:

When water flows over uneven surfaces and can't drain naturally by gravity, it can collect in low areas—causing pooling and even deep flooding



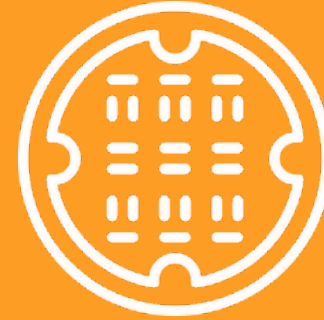
ABSORB



STORE



TRANSFER



What is Cloudburst Infrastructure?

- **Cloudburst infrastructure** captures and holds rainwater from these high intensity / short duration rain events.
- It is typically designed to manage up to **2.3 inches of rain per hour**.
- It is a networked combination of grey and green infrastructure.

Cloudburst Toolbox



Porous Pavement
bike lanes and parking lanes



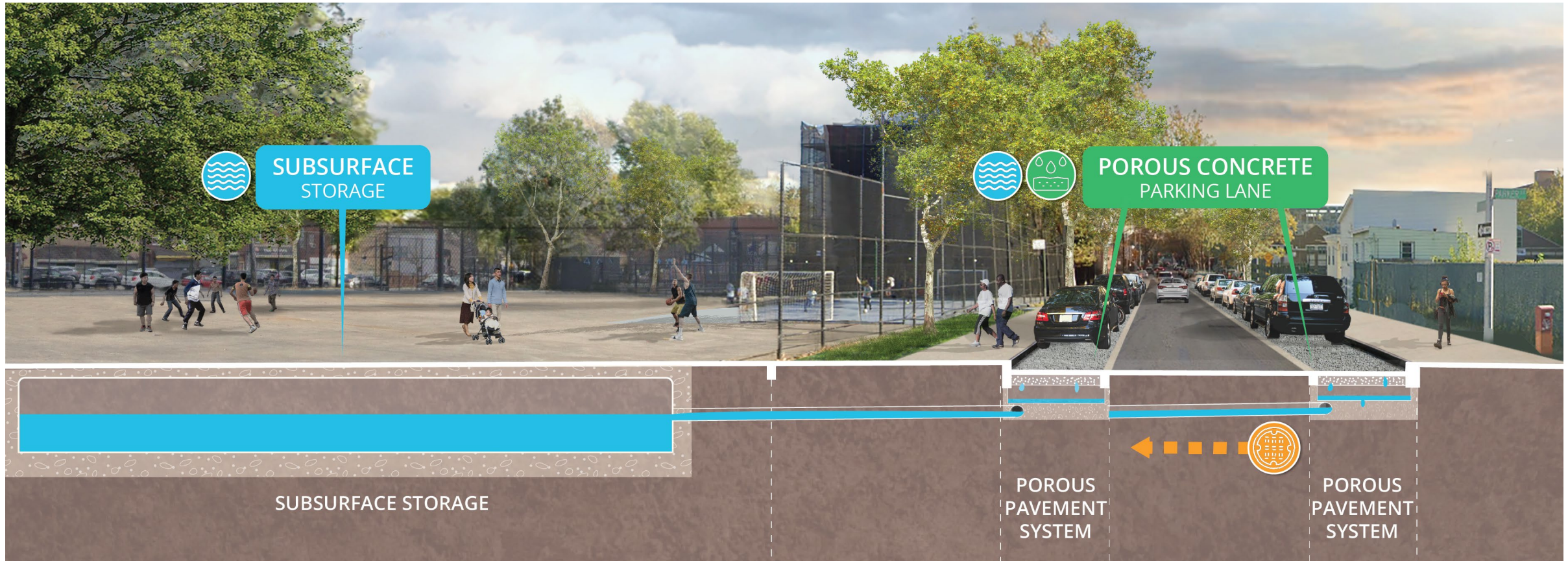
Rain Gardens + Bioswales
streets and sidewalks



Subsurface Water Detention
parking lots, fields and courts,
lawns, streets

Cloudburst Hubs

Cloudburst Hubs are identified at the sub-catchment scale, which are hydraulically connected areas based on the sewer network. **In short, a Cloudburst Hub is the area that is contributing stormwater flows to a target flooding hotspot.**

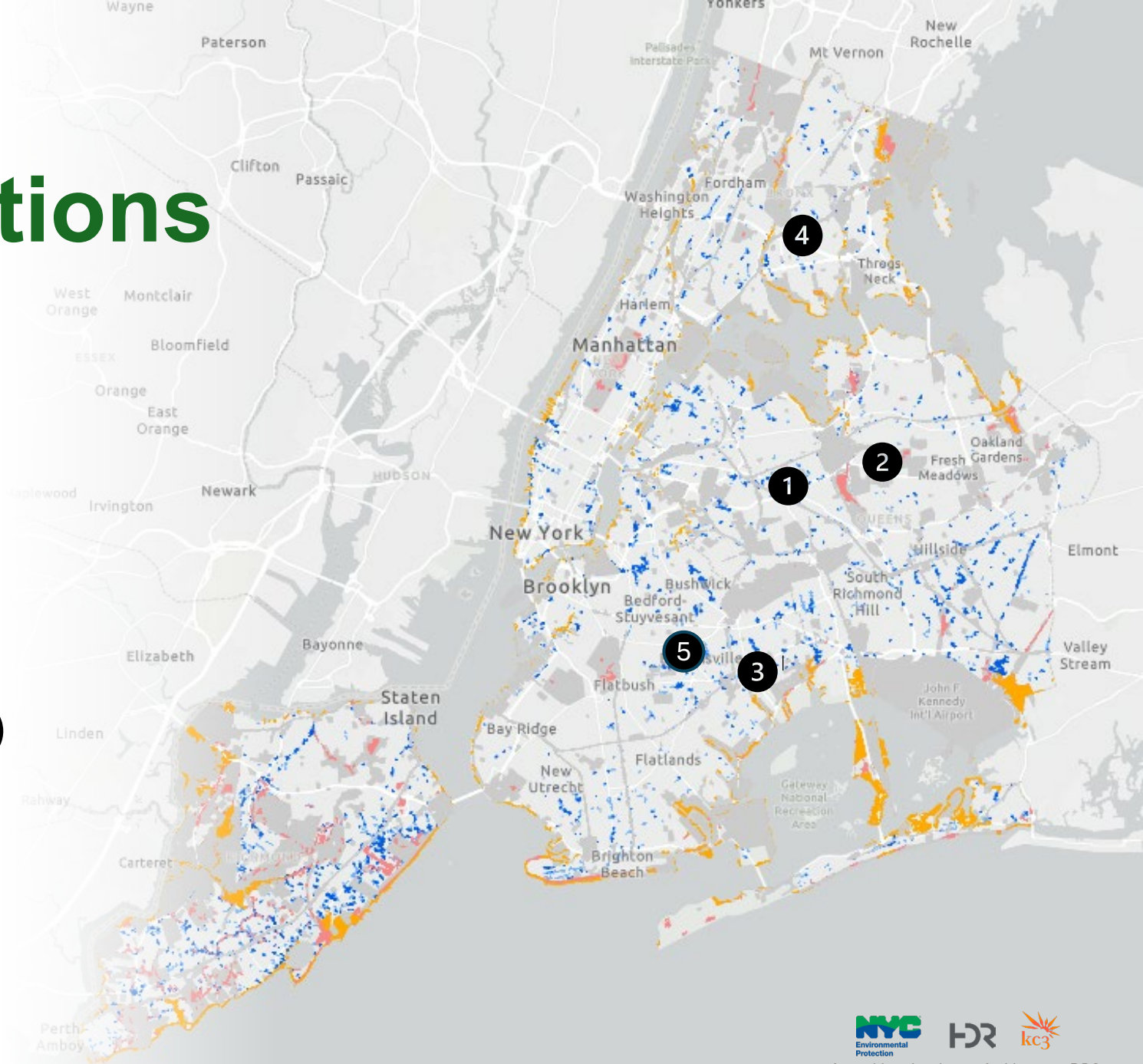


● = Initial Locations

5 Initial Hub Locations

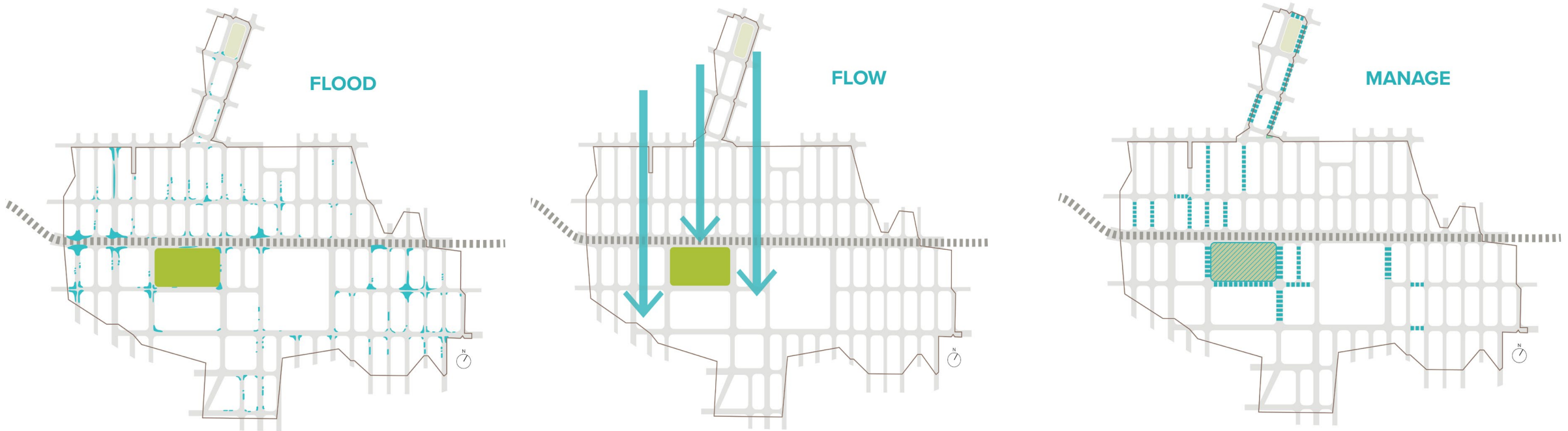
Announced January 2023

1. Corona (Queens)
2. Kissena (Queens)
3. East New York (Brooklyn)
4. Parkchester/Morris Park (Bronx)
5. Brownsville (Brooklyn)



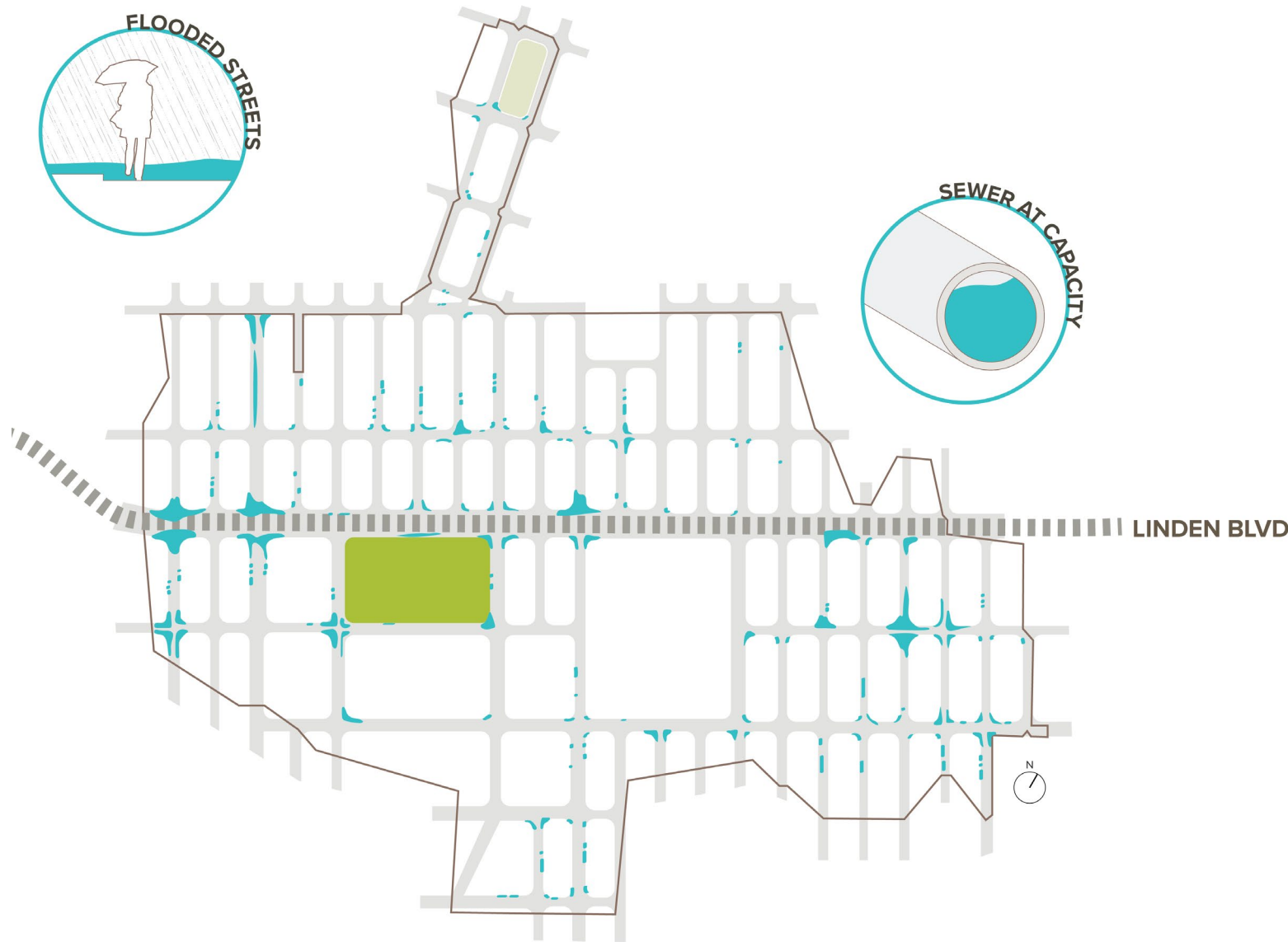
Stormwater Management Schematic

East New York Hub Flooding Strategy



Cloudburst infrastructure studies the Hub's existing conditions to identify areas of opportunity

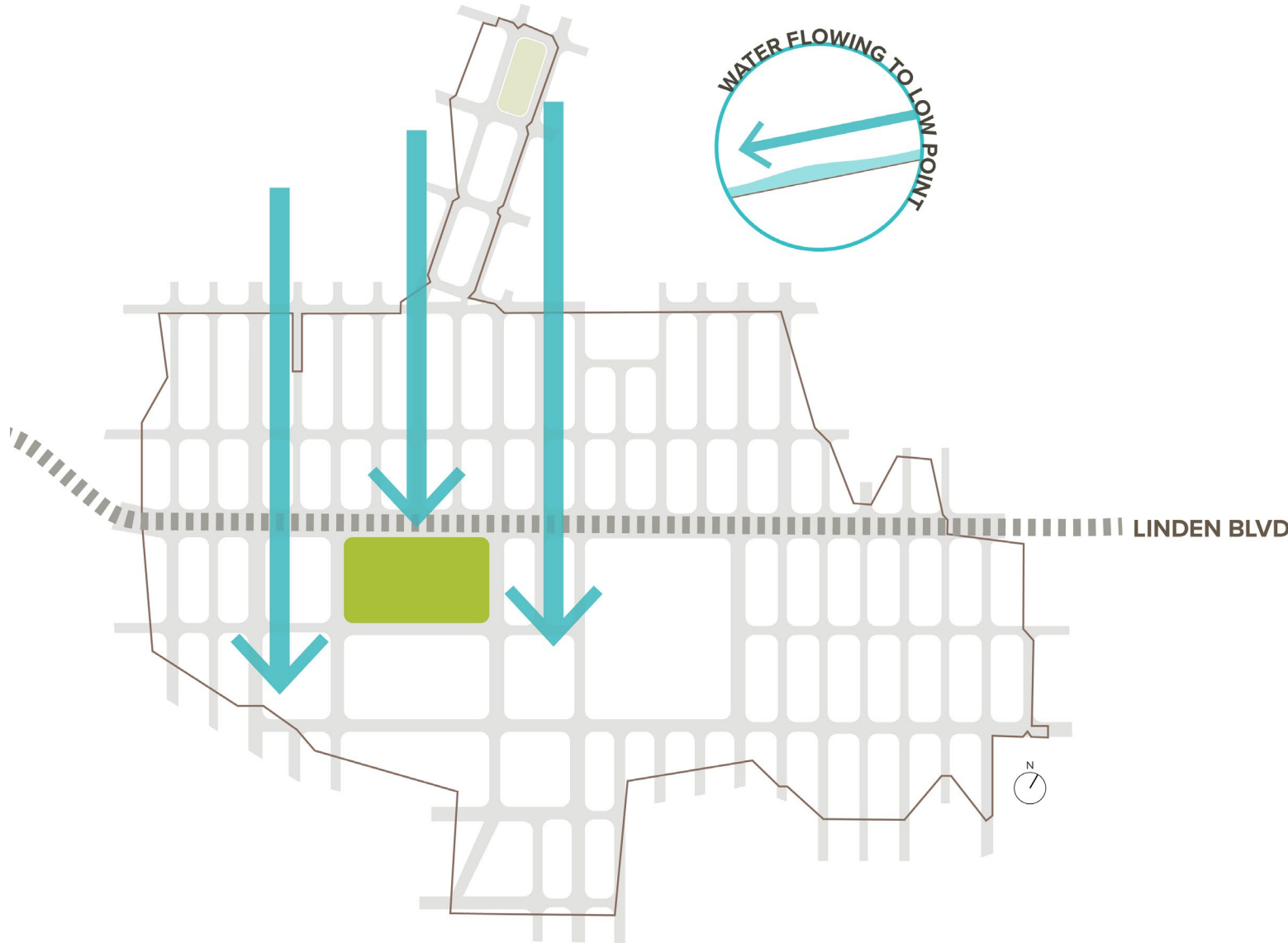
East New York Hub: Why This Area?



Flood

- Flooding impacts everyday life
- Street flooding makes walking or driving unsafe & inconvenient
- Combined Sewer Overflows (CSO) release pollutants into the downstream water body, Jamaica Bay

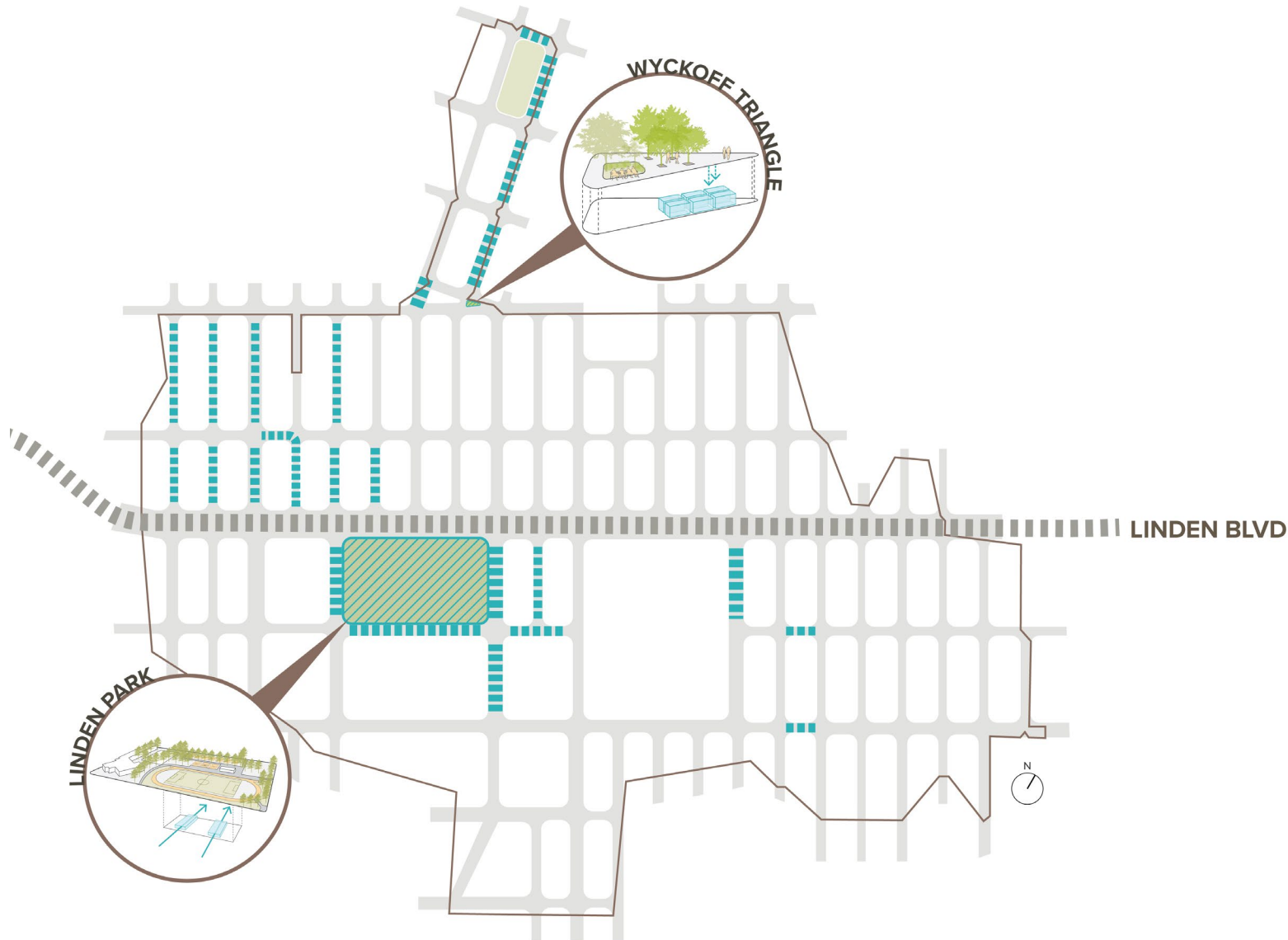
East New York Hub: Why This Area?



Flow

- Local drainage patterns direct water to concentrated areas
- Most stormwater in this area flows from north to south
- Linden Park storage system and associated cloudburst catch basins are designed to capture and manage the water along the way, helping to reduce flooding as it moves south

East New York Hub: Why This Area?

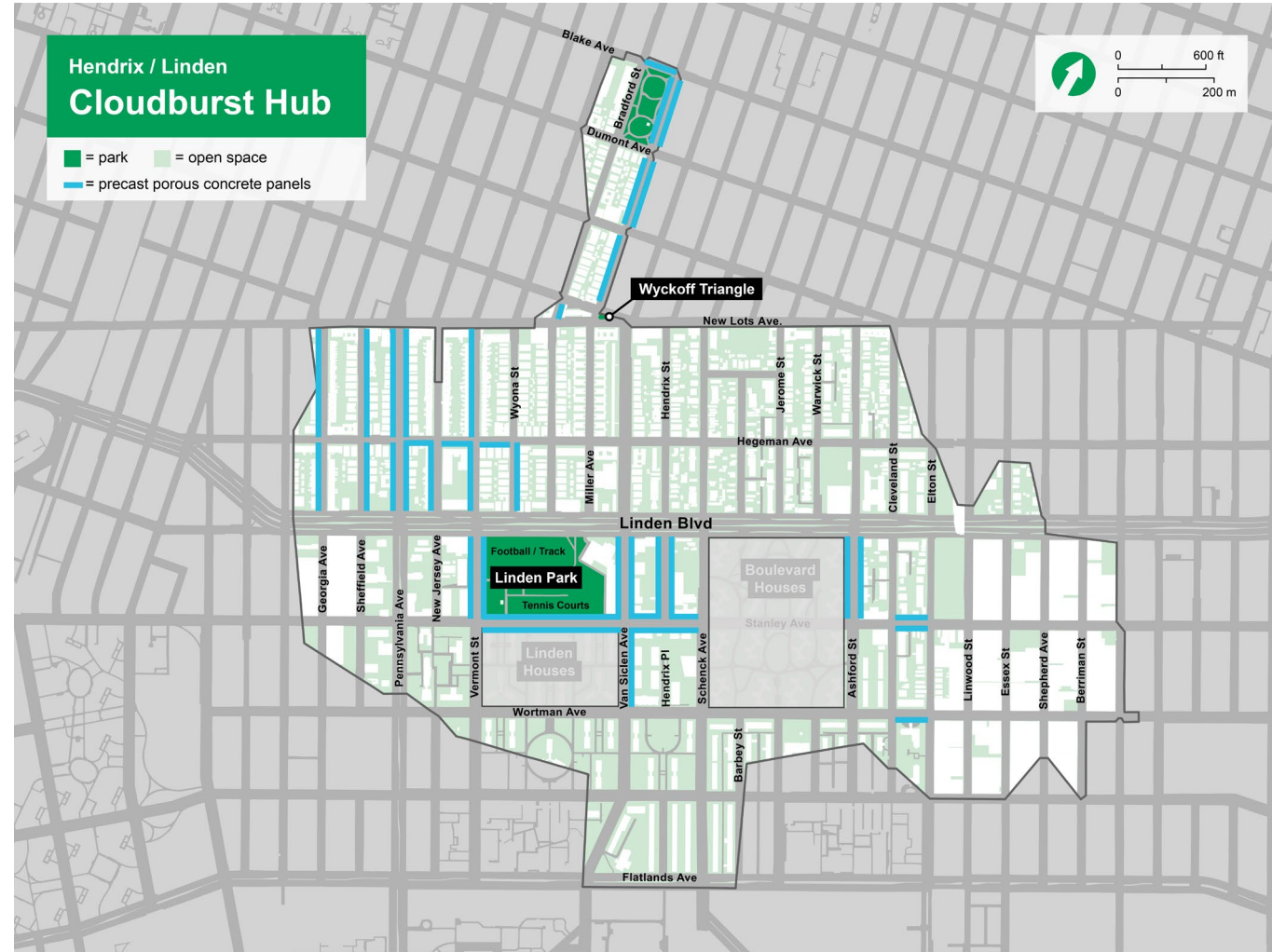


Manage

- There are many opportunities for capital improvements in the neighborhood
- Open spaces like parks or traffic triangles can store large amounts of water
- Street spaces can be used in creative ways to catch water

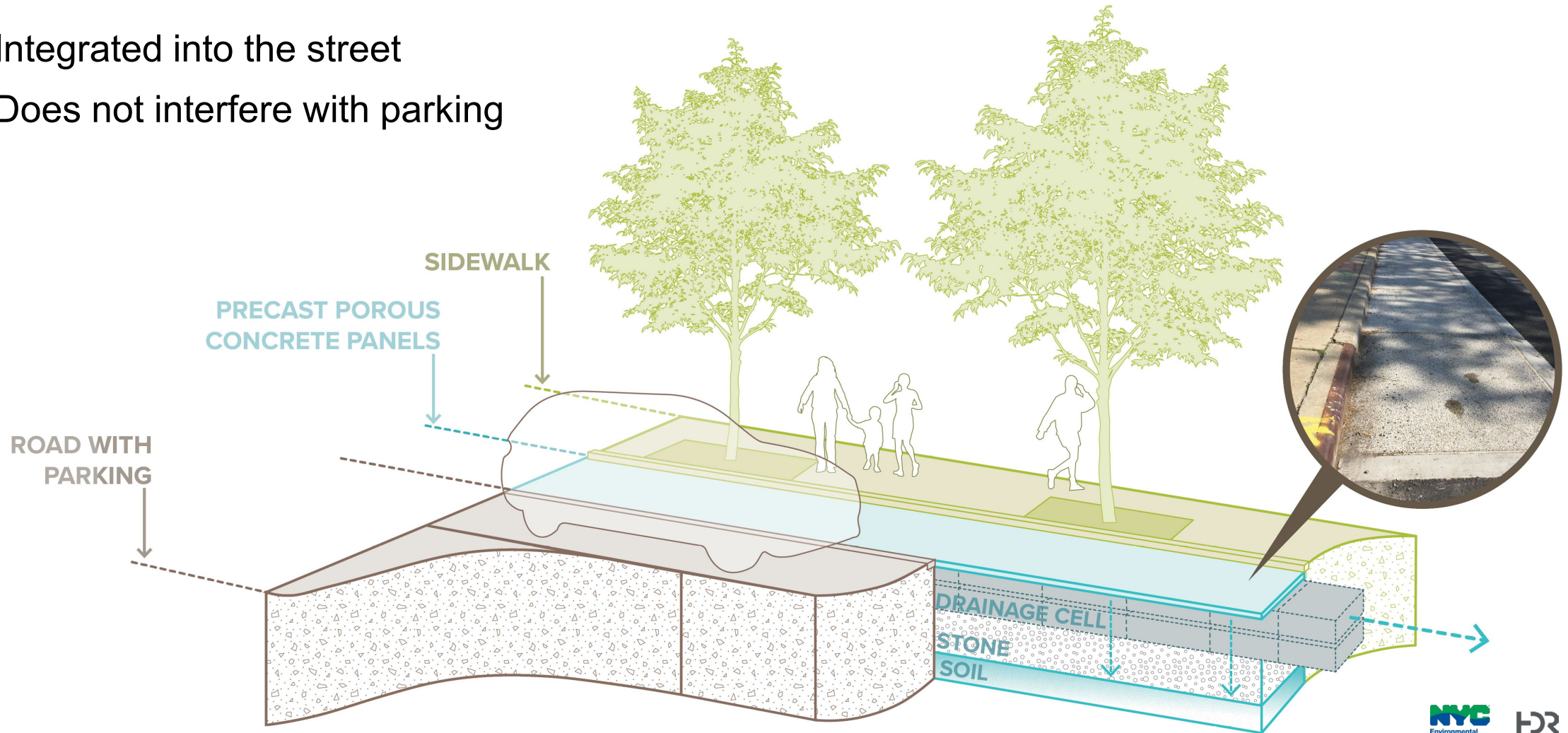
Proposed Stormwater Interventions: Precast Porous Concrete Panels

- Catch water where it lands & reduce runoff downhill



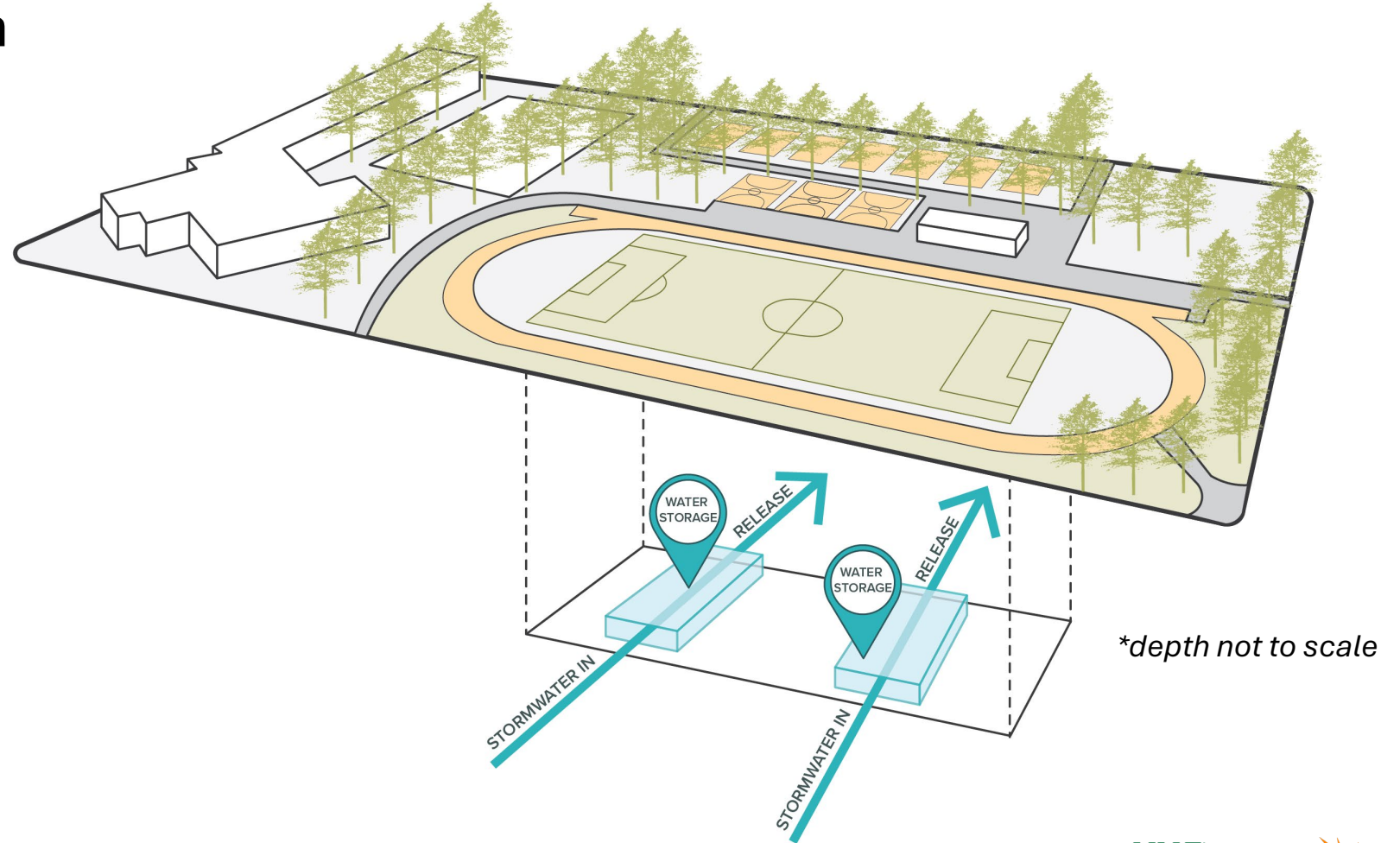
Proposed Stormwater Interventions: Precast Porous Concrete Panels

- Integrated into the street
- Does not interfere with parking



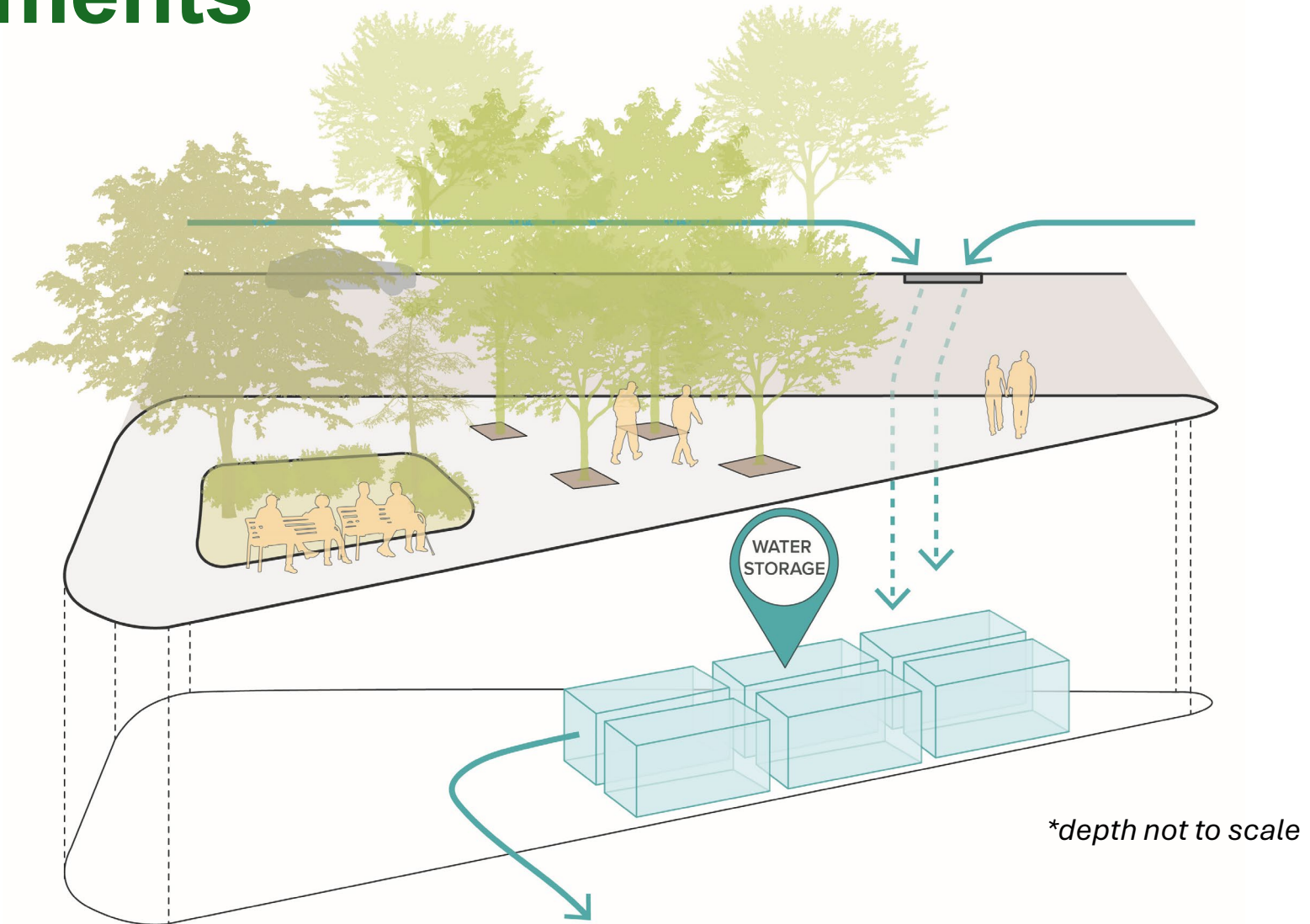
Proposed Stormwater Interventions: Linden Park Onsite Storage

- Utilize space underneath the synthetic turf field to store water below ground
- Storing water helps reduce the amount the sewer system has to manage during a Cloudburst
- Underground storage does not impact above ground activity
- 290,722-gallon storage capacity



Proposed Stormwater Interventions: Wyckoff Triangle Improvements

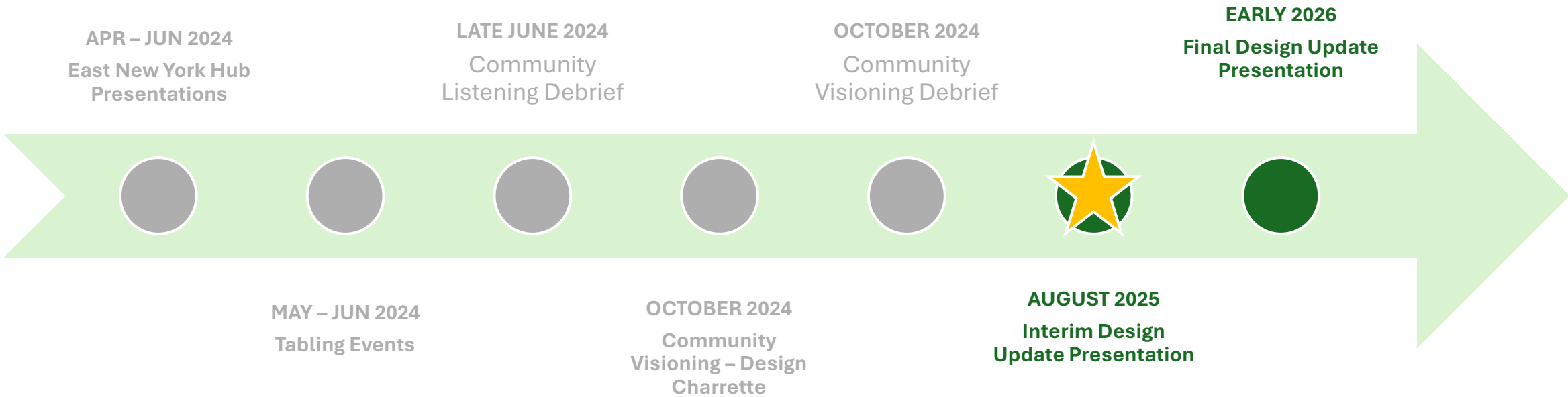
- Capture water where it accumulates
- Slowly release water over time to avoid overwhelming sewers
- 30,726-gallon storage capacity



East New York Community Outreach Events



Community Engagement Timeline



 **WE ARE HERE!**

Thank You, East New York Residents!

In the DEP East New York Cloudburst Hub, we engaged over **580 residents** through:

- Listening sessions with local community organizations
- Tabling events
- Feedback surveys
- Open house at the New Lots Library



Listening Phase

Event Locations:

- Cypress Hills Farmstand
- East New York Farmers Market
- Jamaica Bay Festival

Key Resident Feedback & Priorities:

- Flooding & Drainage
- Sanitation & Cleanliness
- Public Space Improvements
- Education & Youth Programs
- Local Engagement & Incentives



East New York Cloudburst Hub Visioning Phase



East New York Open House – 52 attendees

- Engaged East New York residents on flooding, climate change impacts, and park improvements
- Community Priorities: seating, planting, lighting, public art, easier maintenance
- Strong interest in partnering with local groups for engagement
- Other requests: greenery, better traffic signals, avoid bike racks, community activities (games/pool)

Wyckoff Triangle Tabling

- Engaged with residents and 50+ local partners through tabling, surveys, meetings/phone calls
- Strong support for trees/planting, improved seating, new sidewalk paving, public art/signage, improved accessibility/safety
- Mixed feedback on fencing; interest in more benches near bus stops



Visioning Phase Recap

Summary of what we heard:

- Strong community support for seating, greenery, accessibility, and safety
- Wyckoff Triangle is a vital transit and community gathering space
- Improvements should balance functionality and visual appeal
- Ongoing engagement with residents, businesses, and CBOs is critical to project success



What we could incorporate:

- **Seating & Pathways at Wyckoff Triangle:** Benches and lean bar, curb around the triangle, ease of access to cross, more greenery
- **Enhancements at Linden Park:** Easy care planting, public art/signage, improved stormwater benefits with additional plantings
- **Other Requests at Wyckoff Triangle and Linden Park:** Greenery, avoid bike racks

Proposed Enhancements in Wyckoff Triangle & Linden Park

Wyckoff Triangle Open Space Design



- 4 Additional street trees with Belgium block curb with 7.25'x7.25' tree pit
- Enlarged areas of structural soil for trees below concrete
- 2 DOT benches
- 1 DOT lean bar
- Continuous 6" curb around triangle



Street Tree



DOT Bench with Back



DOT Lean Bar

Wyckoff Triangle Open Space Design



Linden Park Surface Improvements



NYC Parks



Assemblage Landscape Architecture, DPC

Linden Park Central Walk: Shade Trees & Benches

- New shady seating area
- Trees absorb and delay stormwater runoff
- Trees attract local pollinator species
- Shade trees help keep asphalt cooler in the summer



Linden Park Entrance: Shade Tree, Planting, & Benches



NYC Parks

- New seating at entrance of park
- Additional street tree to balance and match the existing entrance tree
- Native planting helps support local pollinators



American Sycamore
Platanus occidentalis



Cat Mint
Nepeta racemosa



Fragrant Sumac
Rhus aromatica 'Gro-Low'



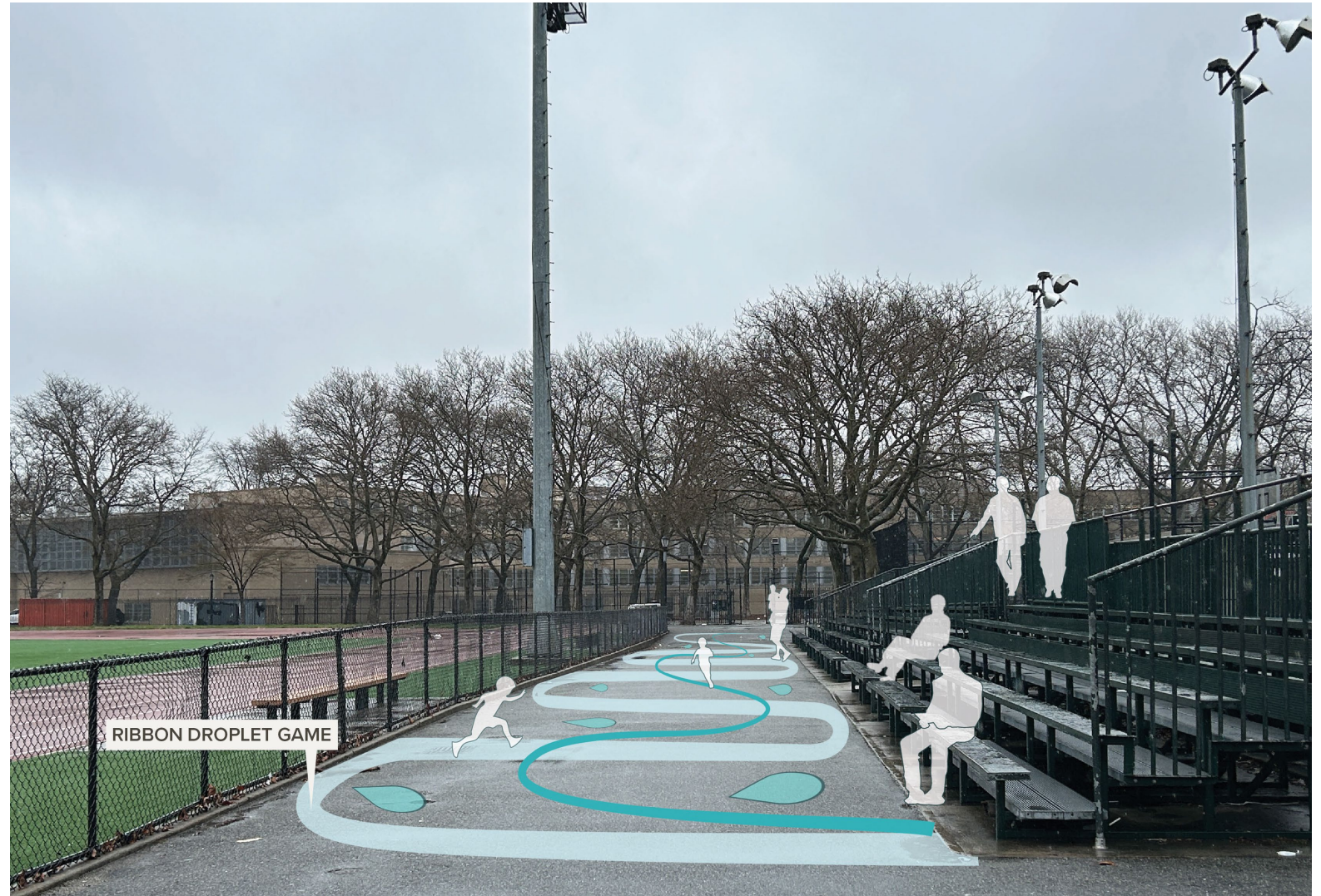
Switch Grass
Panicum virgatum 'Cheyenne Sky'

Linden Park – Painted Asphalt Game



NYC Parks

- Painted ribbon & droplets are both engaging & beautiful
- Painted games are a low-maintenance way to activate a space
- Colorful paint helps cool asphalt in the summer



Signage at Linden Park

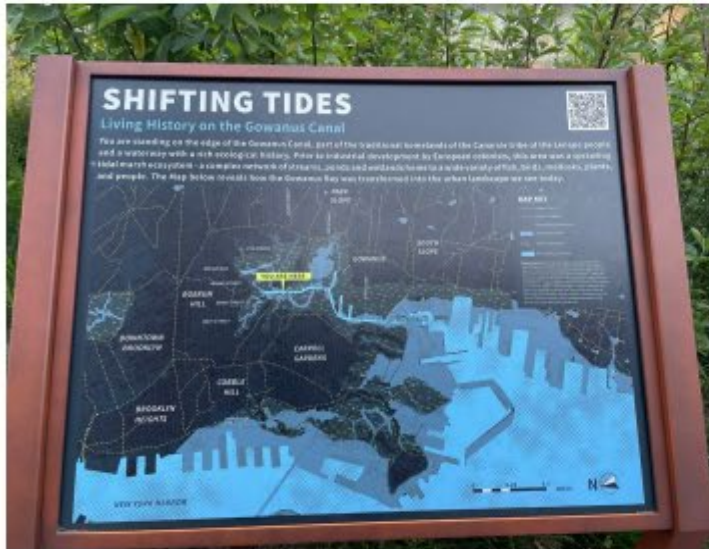


Signage



NYC Parks

- DEP is developing standard graphics and language for signs to help the public understand Cloudburst Hub infrastructure in their neighborhood.
- DEP will be seeking feedback on themes and ideas to highlight, such as:



Historical Hydrology: How the neighborhood's waterbodies flowed historically.



Education: How the stormwater management infrastructure works.

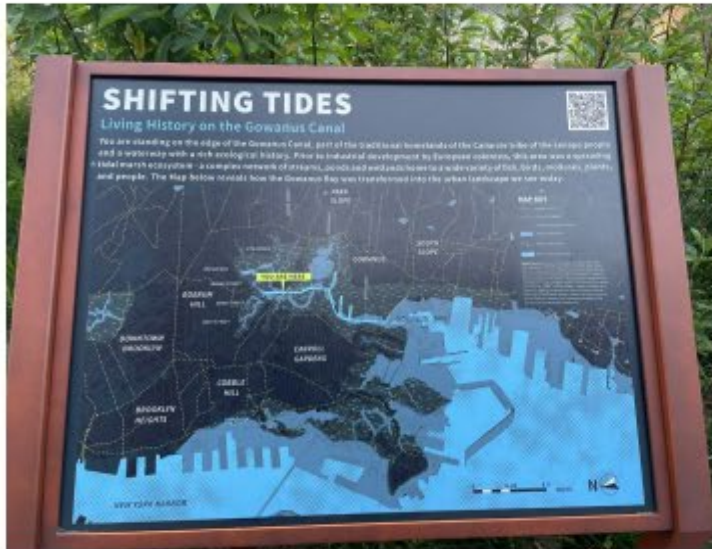


Neighborhood Story: Local stories expressing community experiences of flooding and public space.

Signage

Let's brainstorm signage ideas together!

Your voice will help shape the stories we share, focused on what matters most to you!



Historical Hydrology: How the neighborhood's waterbodies flowed historically.



Education: How the stormwater management infrastructure works.



Neighborhood Story: Local stories expressing community experiences of flooding and public space.

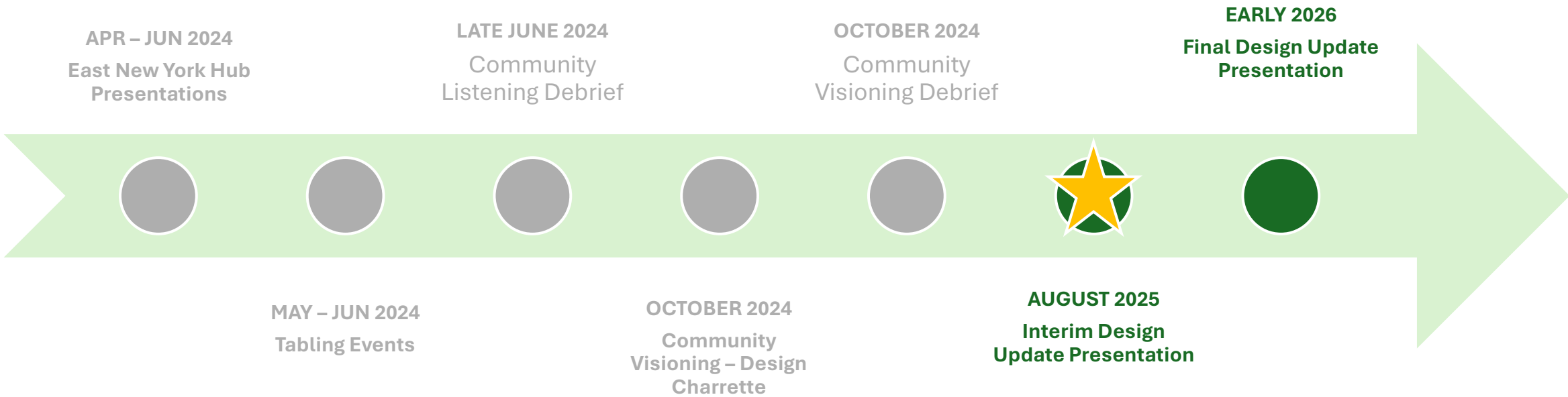
Next Steps



Anticipated Design and Construction Timeline



Community Engagement Timeline



 **WE ARE HERE!**

Thank You!

Questions?

Do you live or work in
the East New York Hub?



LEARN MORE

Receive newsletter updates here



nyc.gov/dep/newsletters

