



# **Canarsie Planning Committee Meeting #8**

November 3, 2014

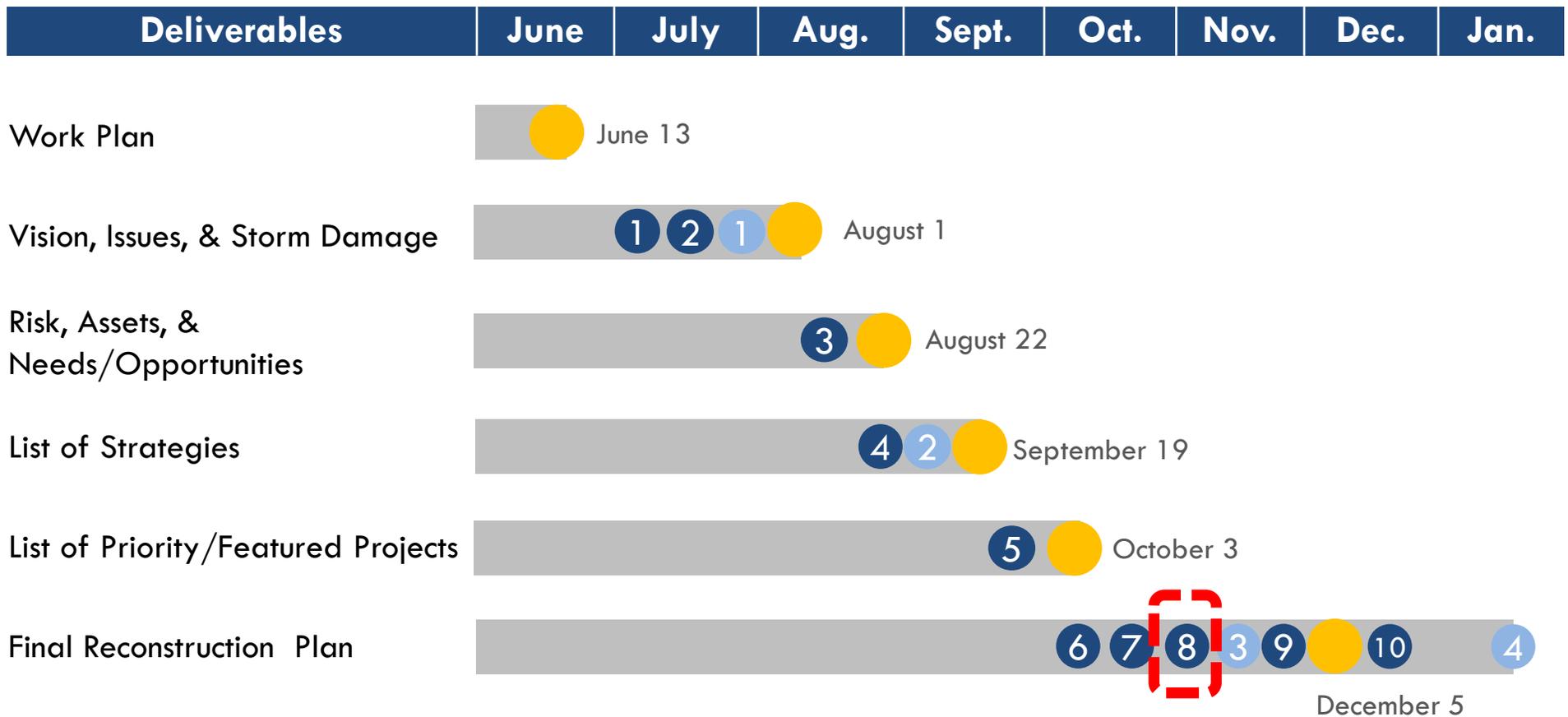
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# Agenda for Planning Committee Meeting #8

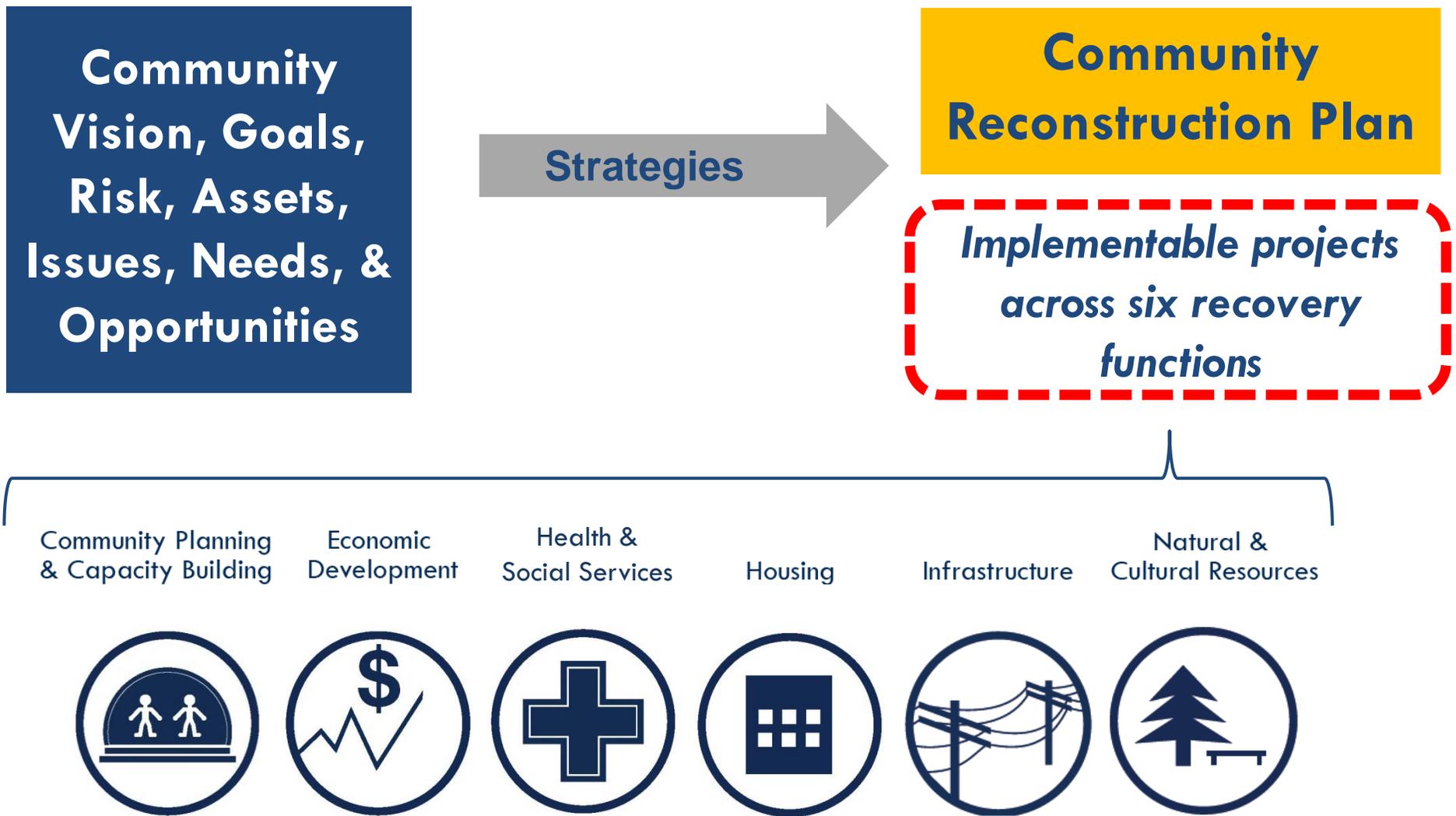
1. **NYRCR Program Update** 7:00pm
2. Review Comprehensive List of Projects 7:05pm
3. Confirm Public Meeting #3 Approach 8:45pm
4. Next Steps 8:55pm

# NY Rising Community Reconstruction Program Schedule

- Planning Committee Meeting
- Public Meeting
- Deliverable Due Date



# NY Rising Community Reconstruction Goals and Components



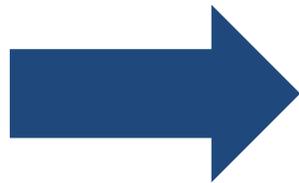
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## Project Development and Voting Schedule

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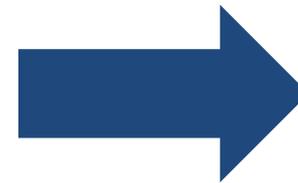
**Develop and  
confirm list of  
projects**

**PC #8: 11/3**



**Present  
projects to  
public**

**PE #3: 11/10**



**Committee  
votes on  
projects**

**PC #9: 11/17**

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## Planning Committee Meeting #8 Goals & Outcomes

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### Goals:

1. Finalize project list to present at Public Meeting #3
2. Confirm approach to Public Meeting #3

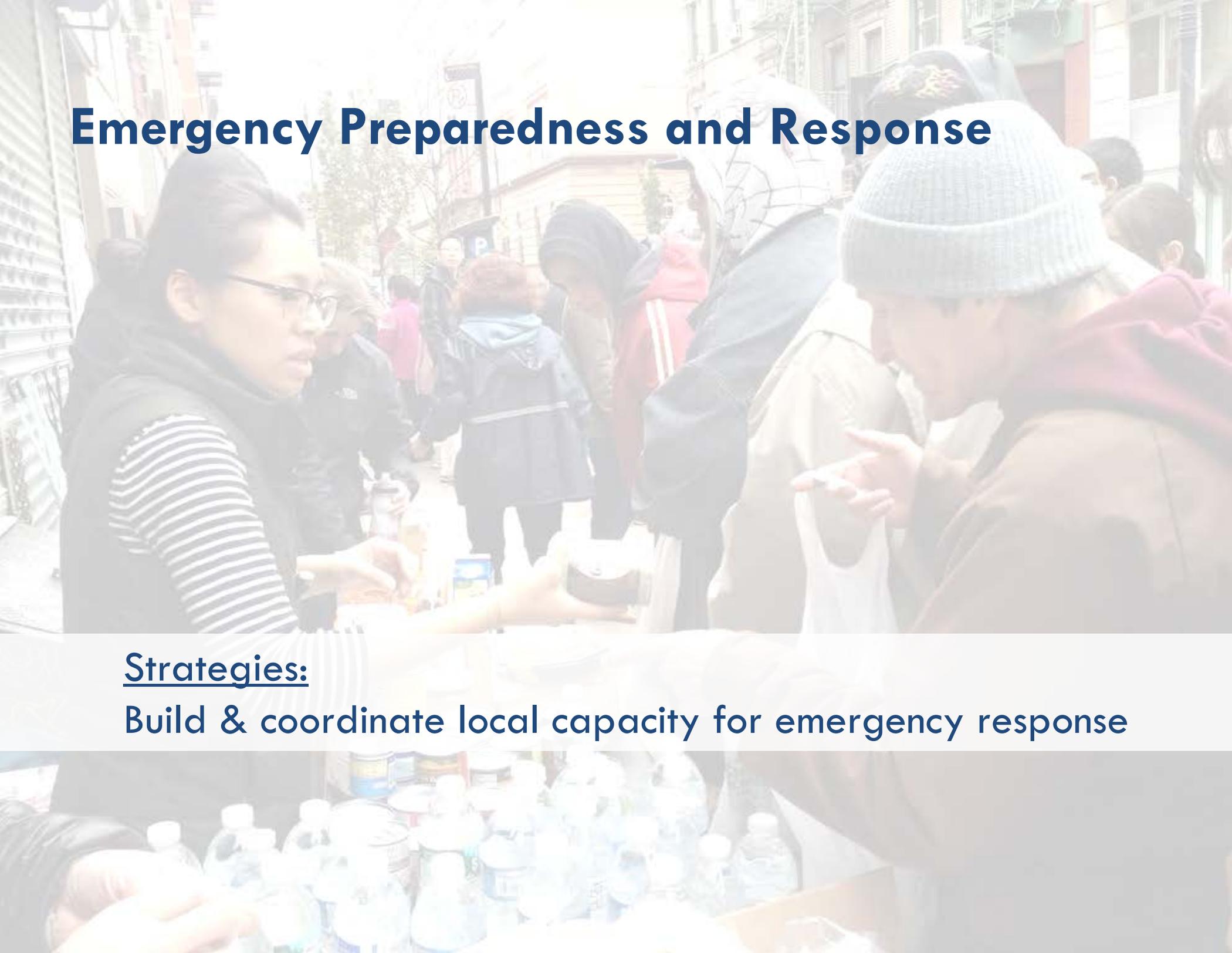
### Outcomes:

1. Updated list of projects and next steps for further project development

# Agenda for Planning Committee Meeting #8

1. NYRCR Program Update 7:00pm
- 2. Review Comprehensive List of Projects 7:05pm**
3. Confirm Public Meeting #3 Approach 8:45pm
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# Emergency Preparedness and Response

A photograph showing a woman in a striped shirt and glasses handing a small container to a man in a grey beanie. They are at an outdoor emergency aid station with many people and supplies like water bottles and food containers.

## Strategies:

Build & coordinate local capacity for emergency response

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# Emergency Preparedness and Response

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## Proposed Project

- 1) Create Resource/Recovery Community Center
- 2) Institute an Emergency Backup Generator Program for Health and Social Service Providers



# Emergency Preparedness and Response Project #1: Resource/Recovery Community Center

## Proposed Project

### 1) Create Resource/Recovery Community Center

This project would also fund:

- Salary for one Community Coordinator for a two-year period to develop and manage an emergency communications plan and year-round programs that build the capacity of the local network of block associations
- Youth (ages 14-24) to annually participate in 6 week “Canarsie Corps” summer employment program

Building construction:  
**\$6-8 million**

Community Coordinator  
Cost: ~**\$40,000**, annually

“Canarsie Corps” Cost:  
~**\$1,500** per enrollee, annually



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## Emergency Preparedness and Response Project #2: Emergency Backup Generator Program for Health and Social Service Providers

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Full/partial grants to help social and health service providers purchase fixed backup generators

Generators could be powered by solar or hybrid (wind and solar)



**Estimated cost: scalable**

One 100kW generator, to serve a 10,000 SF building: **\$350,000**

# Economic Development



Strategy: Strengthen economic resiliency

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## Economic Development

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### Proposed/Featured Project

- 1) Build Avenue L Resiliency Improvements
- 2) Create Resiliency workforce development program
- 3) Commission Market Analysis Study focusing on commercial corridors

### Other Projects and Recommendations

- 1) Expand NYC Small Business Services Storefront Improvement Program to Canarsie
- 2) Undertake process to organize Business Improvement District on Avenue L



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## Economic Development Project #1: Avenue L Resiliency Improvements

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Create a **resilient economic corridor intersection** that incorporates the best practices in street design resiliency. This would function as a demonstration project for the larger application of these methods throughout the city.

### Elements would include:

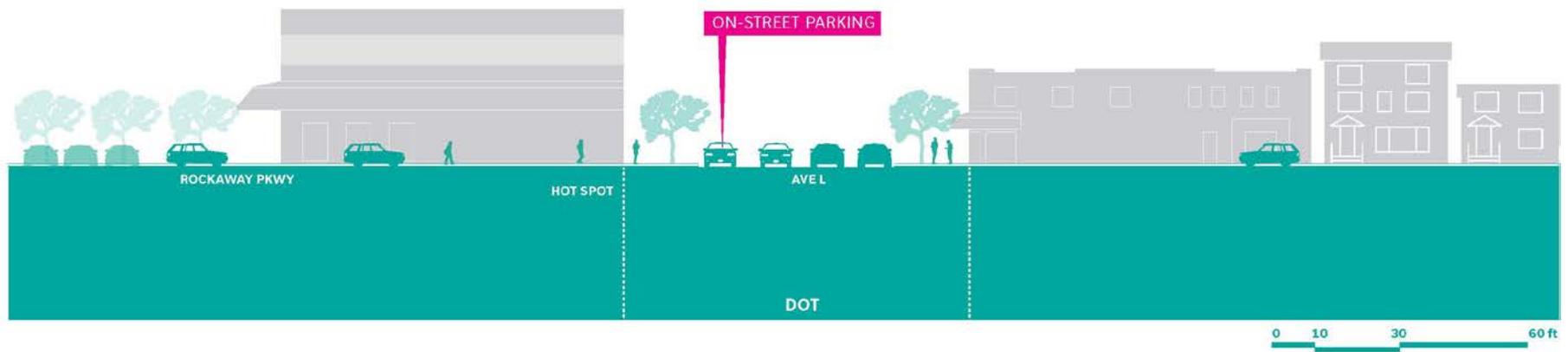
- Plaza with seating, shade, and adjacent streetscaping
- Resilient bus shelter with solar energy powering lighting
- Solar mobile phone charging station
- Bioswales/  
permeable pavers
- Space for pop-up markets
- Amenities for cyclists

Cost: **\$8+ million**



# Economic Development Project #1: Avenue L Resiliency Improvements

## CANARSIE / AVENUE L + ROCKAWAY PARKWAY STREETScape - EXISTING



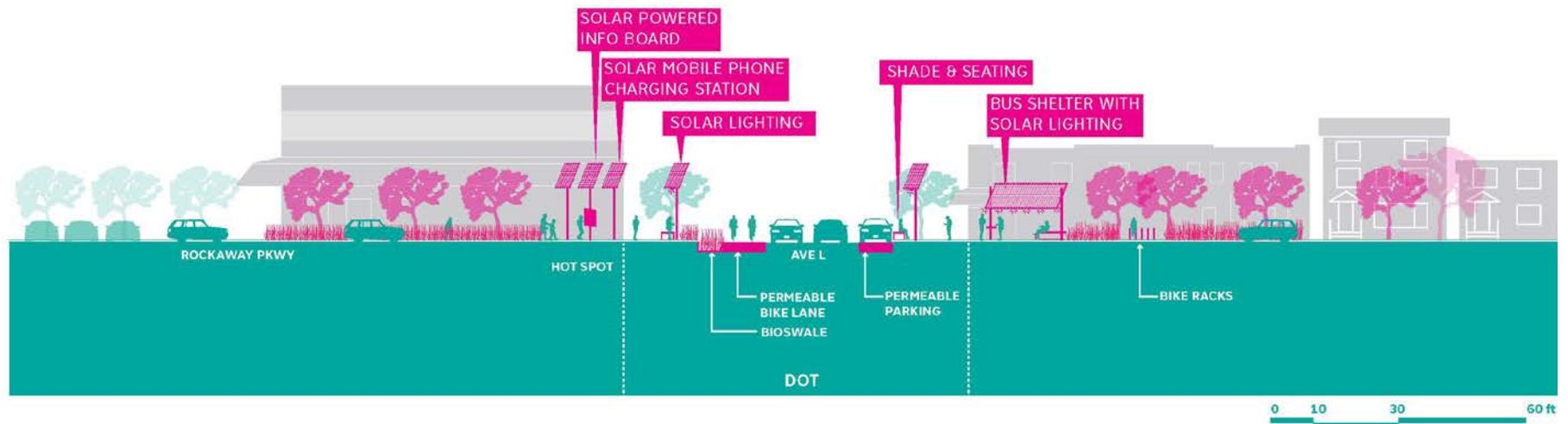
# Economic Development Project #1: Avenue L Resiliency Improvements

## CANARSIE / AVENUE L + ROCKAWAY PARKWAY STREETScape - PROPOSED



### Considerations

- Opportunity to center plaza on intersection of Avenue L and Rockaway Parkway
- Potential replicability at Rockaway Parkway L Train Station
- Ties into streetscaping improvements along a portion of Avenue L



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## Economic Development Project #2: Resiliency Workforce Development

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### Proposed Project

Expand existing workforce training and connect Canarsie residents to employment opportunities in a range of resiliency-related industries.

This project would fund training in areas such as:

- Construction of resilient infrastructure, building improvements, and electrician certification
- Emergency medical technician and home health aide training

### Considerations

Do we want to keep this project?

How many people should it reach?

Any other factors?

#### Costs

**\$4,000 - \$20,000 per enrollee**

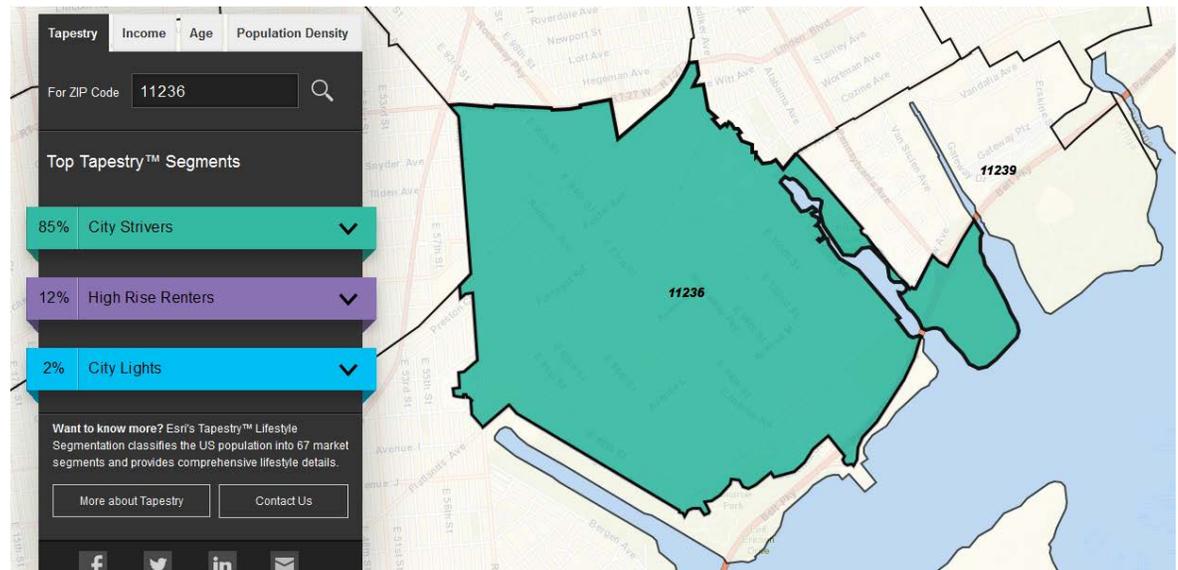


## Economic Development Project #3: Market Analysis

### Proposed Project

This would complete a market analysis for the Canarsie Planning Area, with a focus on the three most active commercial corridors: Rockaway Parkway, Flatlands Avenue, and Avenue L. This study would include

- An assessment of any niche or existing specialized markets
- An assessment of the City's demographics, infrastructure and socio-economic factors and how these relate to the competitive advantages
- Recommendations for stakeholder actions based on this study



Cost: ~\$100,000

## Transportation



### Strategy:

Improve access between residents and economic and natural resources

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## Transportation

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### **Proposed/Featured Project**

- 1) Commission a transportation and parking study for Canarsie

### **Other Projects and Recommendations**

- 1) Extend City Select Bus Service to Flatlands Avenue



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# Transportation Project #1: Transportation and Parking Study

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## Proposed Project

This study would assess and propose solutions for the following transportation-related issues:

- Safety at pedestrian crosswalks and intersections and reduction of traffic speeds
- Parking conditions, including consideration for the potential benefits of new parking structure(s), particularly along commercial corridors and near the Rockaway Parkway L train subway and bus station
- Access along commercial corridors, evacuation routes, and toward the Canarsie shoreline
- Streetscape conditions, including the need for improvements to enhance public rights-of-way for all users
- Existing and future public transportation options, including strategies to make public transportation more widely available and appealing
- Traffic conditions, including ways to improve traffic flow

Cost: ~\$200,000

# Drainage



Strategy:

Improve wastewater & stormwater management

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# Drainage

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## Proposed/Featured Project

- 1) Undertake Canarsie/SE Brooklyn Waterfront-wide drainage study
- 2) Implement Stormwater Mitigation Pilot Project

## Other Projects and Recommendations

- 1) Recommendation for NYC DEP to Assess Area Sewer System and Make Improvements



Seagirt Boulevard, Queens  
NYC DPR Stormwater Management Portfolio



Sagamore Street, Bronx  
NYC DPR Stormwater Management Portfolio



Parking lot retrofit, Scottsbluff, Nebraska  
Nebraska H2O



# Housing



## Strategy:

Make homes more physically and financially resilient

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## Housing

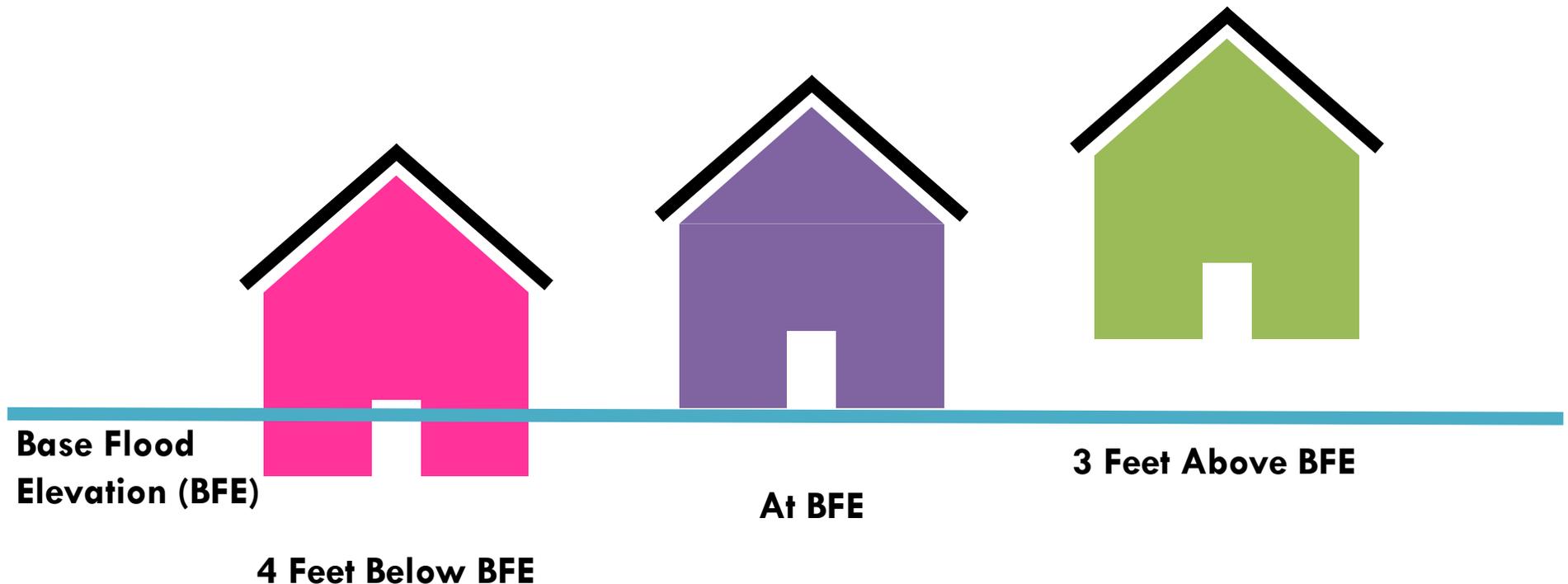
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### Proposed/Featured Project

- 1) Create housing education program
- 2) Create home auditing program leading towards a grant/loan program for upgrades and repairs

### Other Projects and Recommendations

- 1) Support SIRR proposal for broader home resiliency grant program



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## Housing Project #1: Homeowner Information and Counseling Program

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This project would fund educational resources and one-on-one counseling on homeowner risks, resiliency improvements

Geared at all homeowners in the Planning Area

Counseling services would be based at an existing citywide or Brooklyn-based organization with local offices



**Estimated cost: \$350,000**

(includes staff time, programming, and materials over 2 years)

# Housing Project #1: Home auditing program/grant and loan program for upgrades and repairs

## Proposed/Featured Project

- 1) Create home auditing program leading towards a grant/loan program for upgrades and repairs for the 5,400 homes in the high or extreme flood zones

### Considerations

How many people should it reach?  
Any other factors?

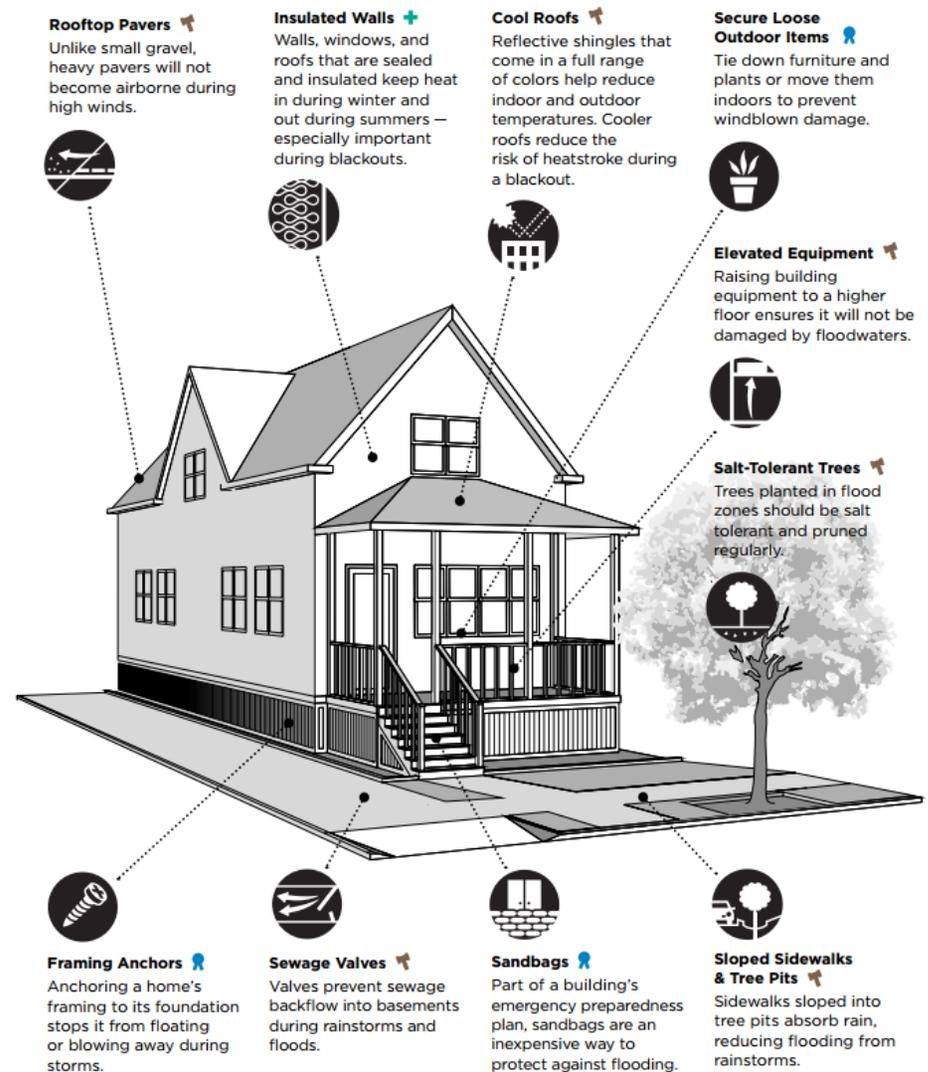
Costs:

Audits:

~\$1,000-\$5,000 per audit

Grant/loan program:

~\$6,000-\$20,000 per home



Source: "Building Resiliency Task Force Report," Urban Green Council,  
<http://urbangreencouncil.org/content/projects/building-resiliency-task-force>

# Coastal Protection & Shoreline Access/Activity

A scenic view of a coastal area. In the foreground, there is a body of water with a sandy beach. The background is filled with dense green trees and a bright blue sky with a sun flare in the top left corner. The overall scene is bright and clear.

Strategy: Reduce vulnerability to coastal flooding and sea level rise;  
Activate and enhance access along the shoreline

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## Coastal Protection/Access to Shoreline

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### **Proposed/Featured Project**

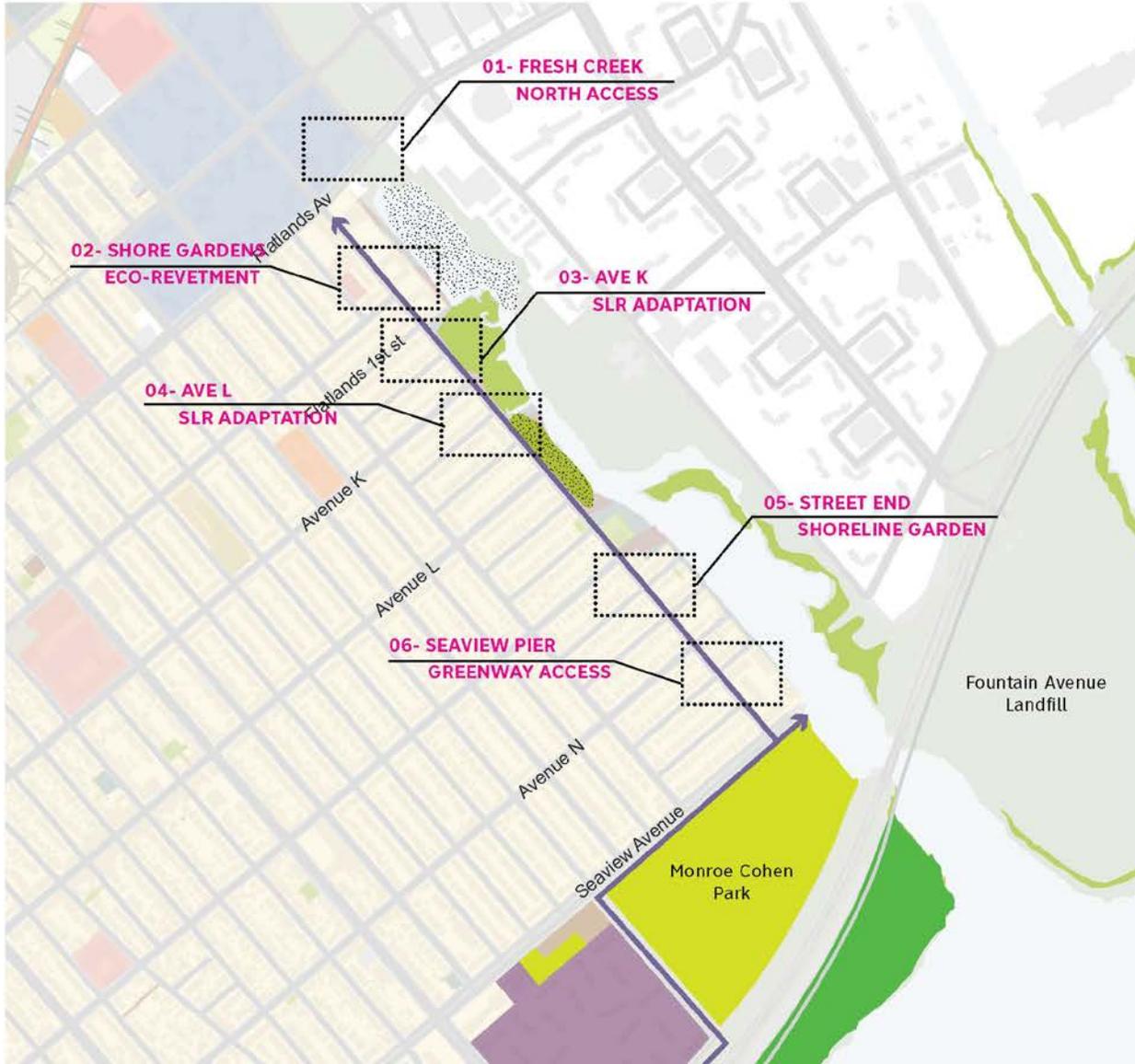
- 1) Implement Fresh Creek Restoration and Resiliency Pilot Project
- 2) Implement Canarsie Pier and Beach Pilot Project
- 3) Establish Canarsie Youth Environmental Education Program
- 4) Build smaller-scale protection at Paerdegat Basin

### **Other Projects and Recommendations**

- 1) Recommend the USACE fund the creation of a Jamaica Bay-wide surge barrier that minimizes effects on neighboring communities
- 2) Recommend the USACE undertake smaller-scale protection at Paerdegat Basin

# Coastal Project #1: Fresh Creek Resiliency & Restoration Pilot Project

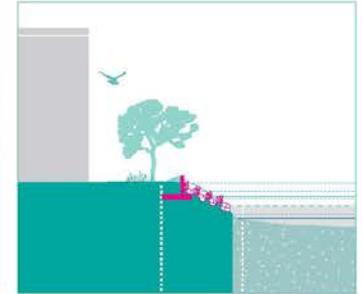
## CANARSIE / FRESH CREEK - SHORELINE ACCESS AND RESTORATION PROPOSALS



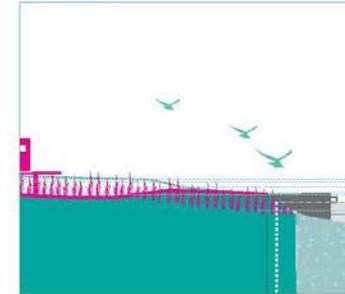
01- FRESH CREEK



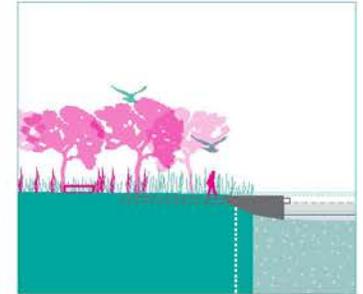
02- SHORE GARDENS



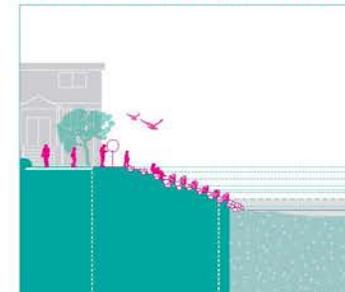
03- AVE K



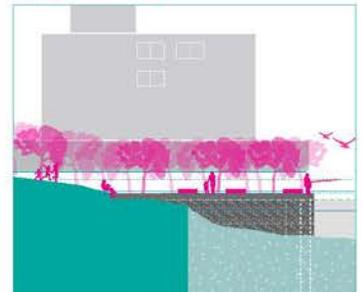
04- AVE L



05- STREET END SHORELINE GARDEN



06- SEAVIEW PIER

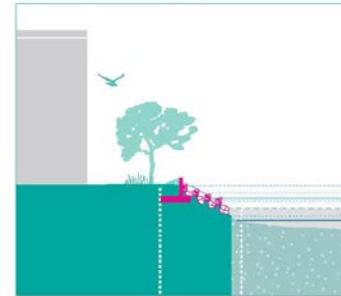


# Coastal Project #1: Fresh Creek Resiliency & Restoration Pilot Project

## CANARSIE / FRESH CREEK - COMPREHENSIVE PROTECTION AGAINST 10-YEAR SURGE



02- SHORE GARDENS



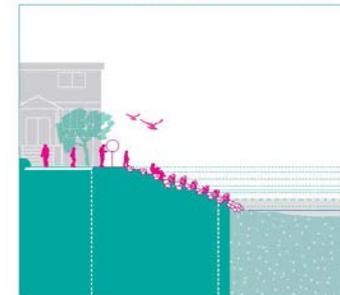
03- AVE K



04- AVE L



05- STREET END SHORELINE GARDEN



# Coastal Project #1: Fresh Creek Resiliency & Restoration Pilot Project

## 1a – North Access

\$900,000

Gangway

\$3 million

Low marsh restoration

\$150,000

Park area



Cost: ~\$4.4 million

Does not include high marsh reforestation.

## 1b – Shore Gardens

\$1 million

Cheek wall

\$300,000

Living revetment



Cost: ~\$1.3 million

Does not include high marsh reforestation.

Conceptual estimate of probable cost - not for reliance - work in progress

# Coastal Project #1: Fresh Creek Resiliency & Restoration Pilot Project

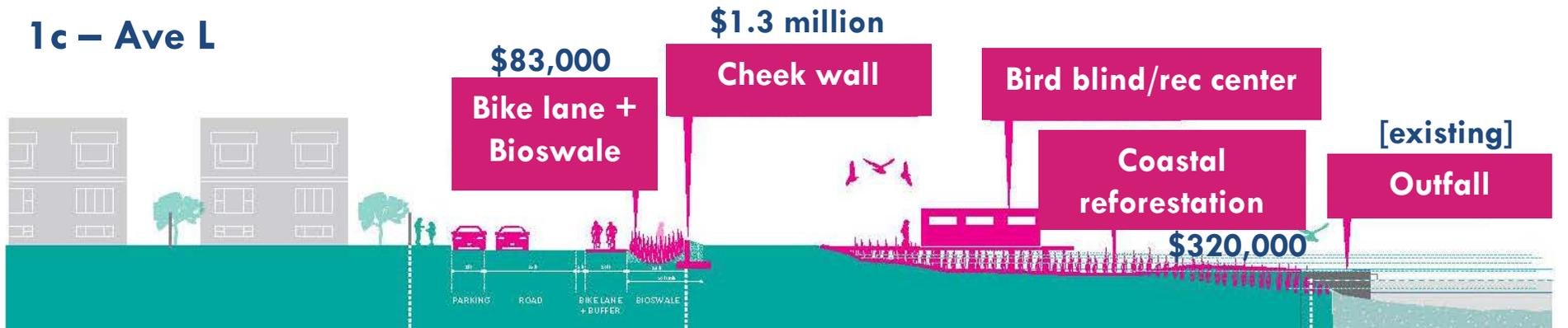
## 1c – Ave K



**Cost: ~\$2 million**

Does not include high marsh reforestation, park amenities, or bike lane asphalt.

## 1c – Ave L

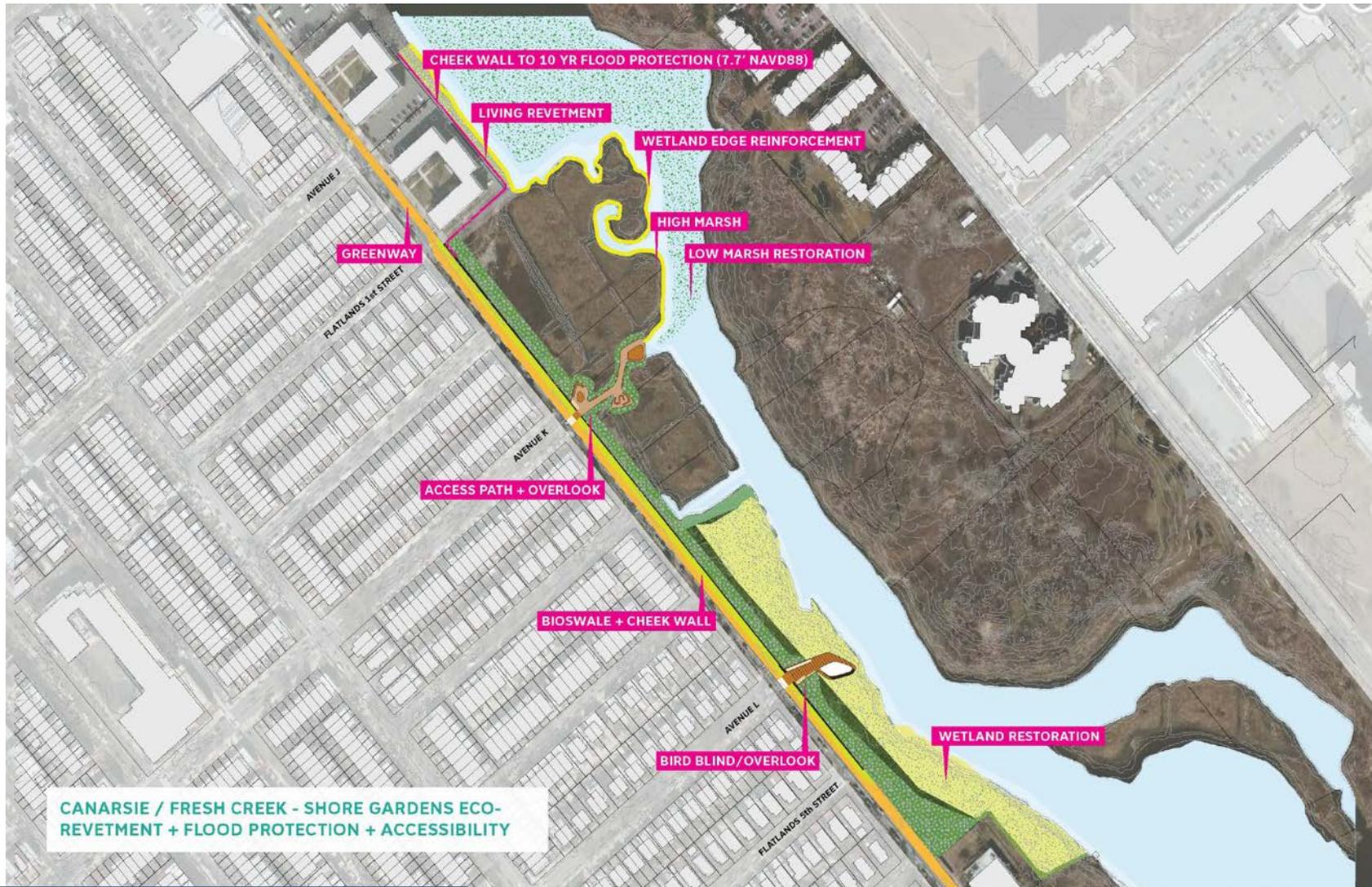


**Cost: ~\$2.5 million**

Does not include high/low marsh reforestation, park amenities, or bike lane asphalt.

**Conceptual estimate of probable cost - not for reliance - work in progress**

# Coastal Project #1c: Focusing on Ave K and Ave L Enhancements



Cost: ~\$4.5 million

Conceptual estimate of probable cost - not for reliance - work in progress

# Coastal Project #1: Fresh Creek Resiliency & Restoration Pilot Project

## 1d – Street End Shoreline Garden

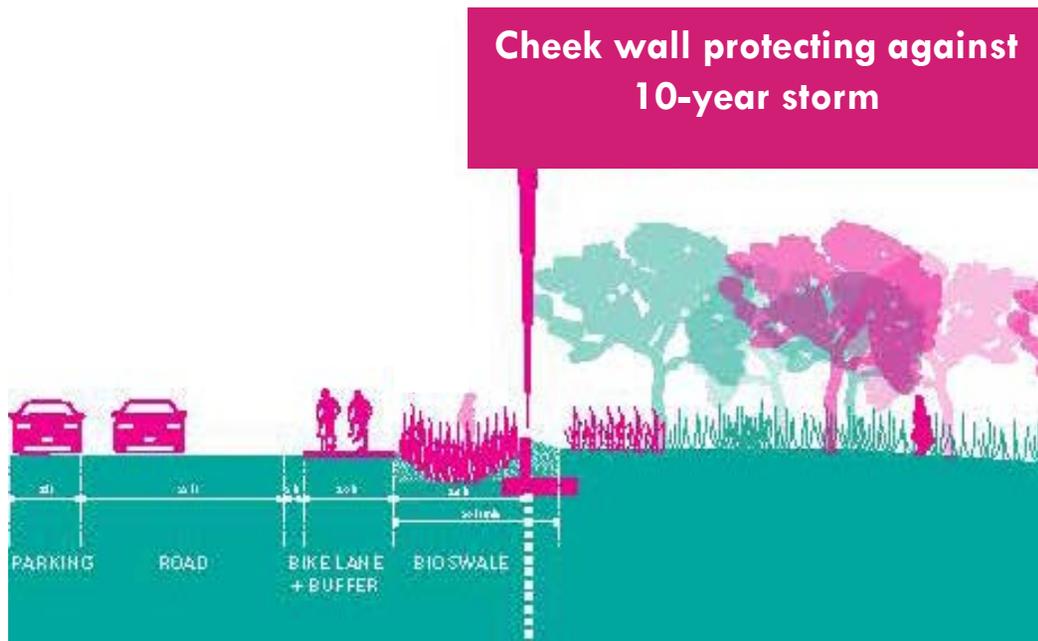


## 1e – Seaview Pier



Conceptual estimate of probable cost - not for reliance - work in progress

# Coastal Project #1f: Focusing on 10-Year Storm Protection



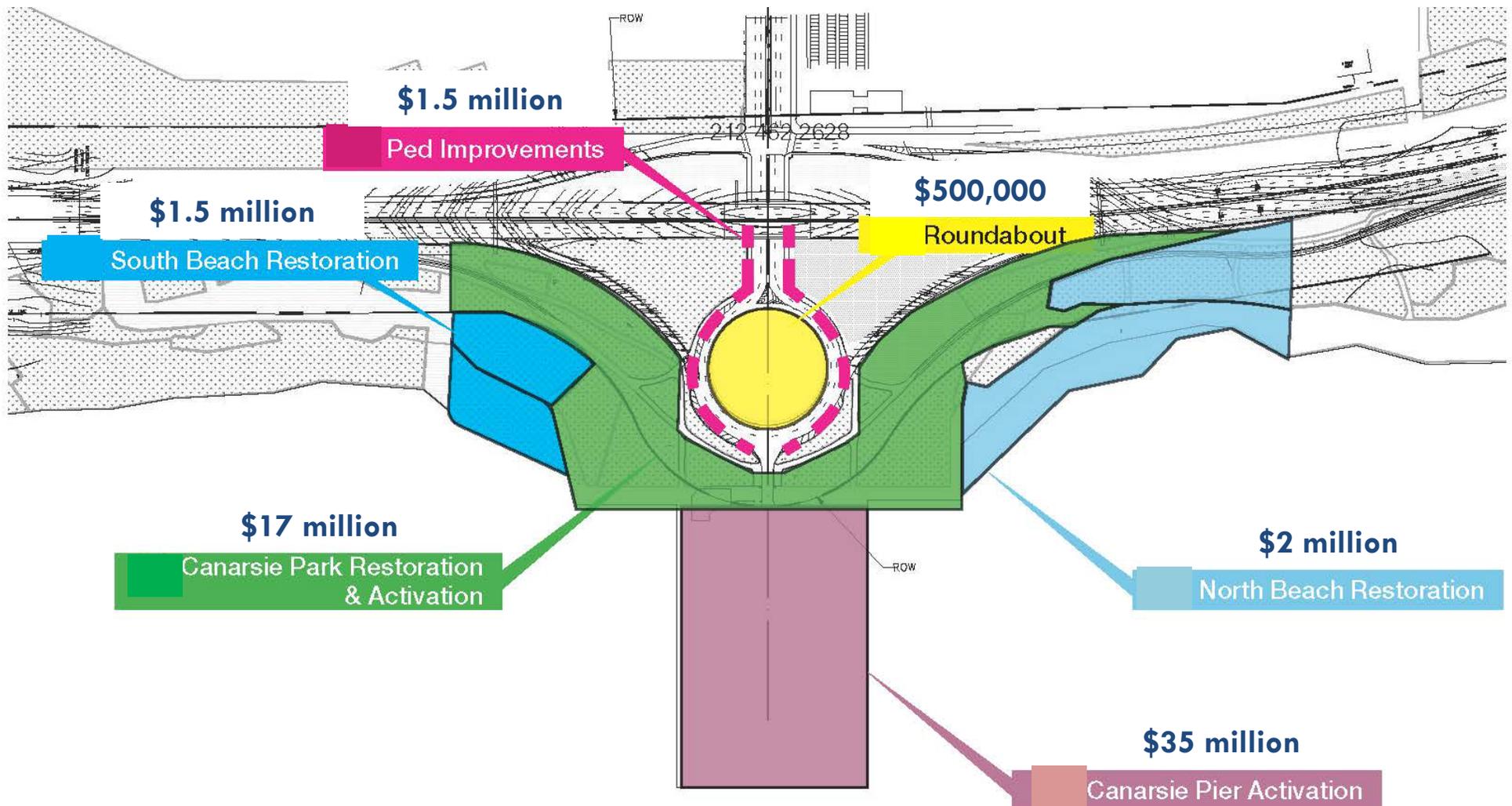
**Cost  
of Comprehensive  
Coastal Protection for  
10 – Year Storm Surge**

**~\$5 million**

Includes linear feet of floodwall construction along at-risk shoreline areas, does not consider drainage

**Conceptual estimate of probable cost - not for reliance - work in progress**

## Coastal Project #2: Canarsie Pier & Beach Restoration

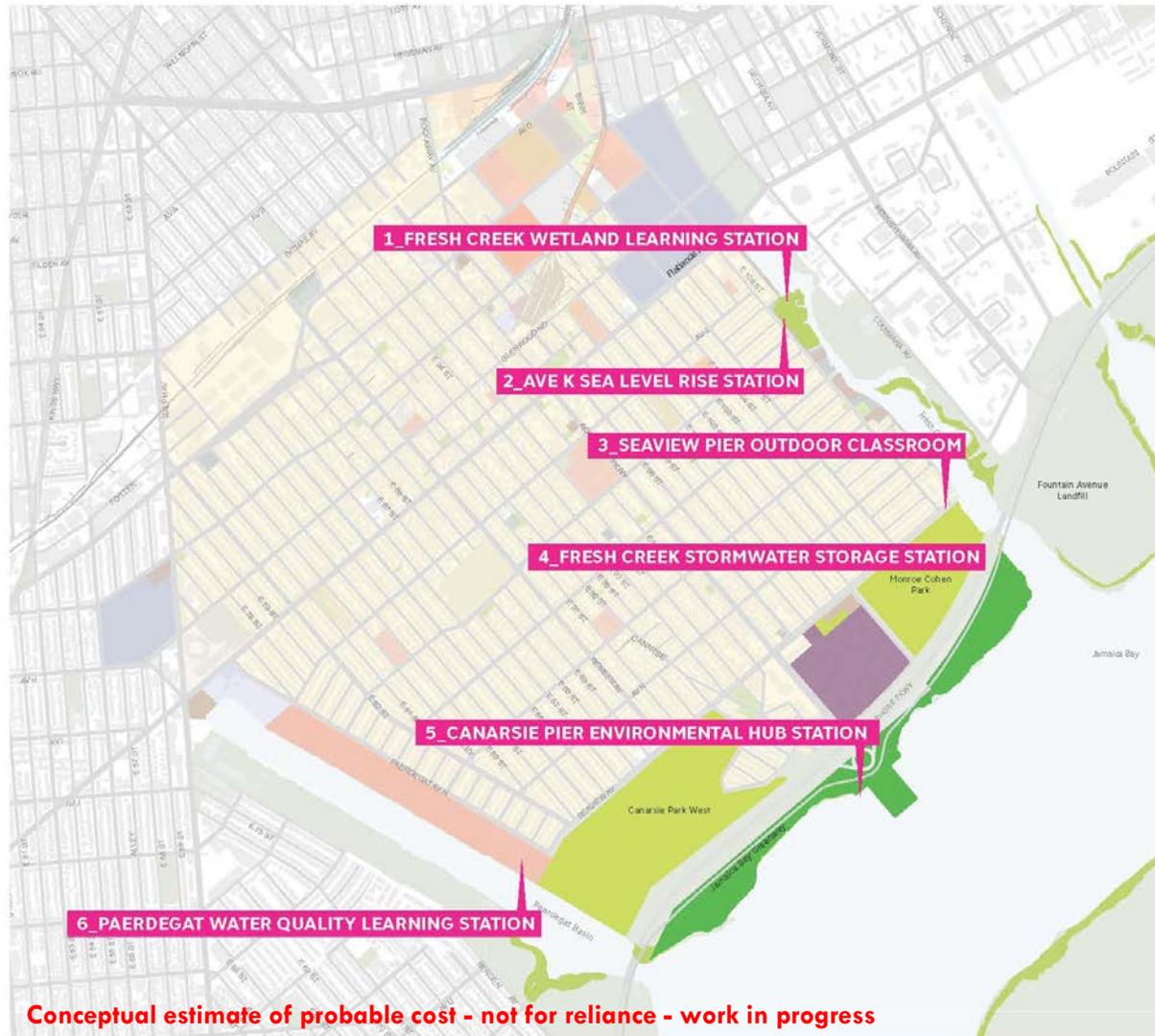


Cost: ~\$58.5 million

Conceptual estimate of probable cost - not for reliance - work in progress

# Coastal Project #3: Youth Environmental Education Program

## CANARSIE YOUTH ENVIRONMENTAL EDUCATION PROGRAM



Conceptual estimate of probable cost - not for reliance - work in progress

This would fund the development of a curriculum and supportive infrastructure for a Canarsie Youth Environmental Education Program.

**Cost:**

Part-time staffer: **\$20,000**

Signage: **<\$10,000**

Infrastructure: **\$3-10 million**

# Coastal Project #4: Paerdegat Basin 100-Year Coastal Protection

## PROTECTION FROM A 100 YEAR STORM SURGE



NY Rising Community Reconstruction Program  
Canarsie Planning Area

□ Planning Area

### Surge Protection

— Berm

— Floodwalls + Deployables

- Protects to elevation of 12 NAVD88
  - 1% annual chance of storm event + 1' freeboard
- Includes:
  - 2,900 linear feet of berms
  - 1,500 linear feet of floodwalls (+ deployables)
  - Stormwater retention/detention areas

**Cost: ~\$17 million**

**Conceptual estimate of probable cost - not for reliance - work in progress**

# Agenda for Planning Committee Meeting #8

1. NYRCR Program Update 7:00pm
2. Review Comprehensive List of Projects 7:05pm
- 3. Confirm Public Meeting #3 Approach 8:45pm**
4. Next Steps 8:55pm

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# Public Meeting #3 Approach

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## Set-up

- Easels and boards organized by strategies

## Capturing public feedback

- Approach
- Costs
- Prioritizing projects via sticker-based polling method

(to be used as a proxy for public opinion on projects)



# Agenda for Planning Committee Meeting #8

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4. **Next Steps** 8:55pm

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## Next Steps

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1. Public Meeting #3: Monday, November 10
  - Public feedback on projects
2. Committee Meeting #9: Monday, November 17<sup>th</sup>
  - Committee votes on projects
3. Committee Review of Final Plan

**Questions?**



**Thank you.**

