Agenda for Planning Committee Meeting #7

1. Preliminary Proposed Project list 6:30-6:40pm

2. Review of Proposed Projects 6:40-9:20pm
   - Emergency Preparedness and Response
   - Housing
   - Economic Development
   - Coastal Protection
   - Stormwater Management
   - Power

3. Next steps 9:20-9:30pm
Project development and voting

Step #1: Develop and confirm list of projects

Information around project concepts and considerations

Follow-up with additional research, based on Committee feedback

Finalize list of project ideas to be presented to the public at PE#3
Project development and voting

Step #2: Present projects to the public at PE#3 (Nov. 12)

PE#3 Event from NYRCR Round I
Project development and voting

Step #3: Committee votes on projects to propose for CDBG-DR funding (Nov. 19)

Sample ballot from NYRCR Round I Community

<table>
<thead>
<tr>
<th>YES/NO/ABSTAIN</th>
<th>PROJECT</th>
<th>BRIEF DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>(A)</td>
<td>Implement Targeted Coastal Protection at Beach 88th Street</td>
<td>Capital costs for raised bulkhead, wetland restoration, and floodwalls/berms</td>
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<tr>
<td>(B)</td>
<td>Drainage Projects</td>
<td>Capital costs for 50 bioswales</td>
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<tr>
<td>(C)</td>
<td>Create Rockaway West Relief Center Hub(c)</td>
<td>Capital hardening costs and programming expenses for two years</td>
</tr>
<tr>
<td>(D)</td>
<td>Create Rockaway West Relief Satellites</td>
<td>Capital hardening costs and programming expenses for two years</td>
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<tr>
<td>(E)</td>
<td>Support Long-Term Ferry Operations</td>
<td>Operating expenses for two years (subject to revision)</td>
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<tr>
<td>(F)</td>
<td>Create a Rockaway Bike Share Program</td>
<td>Capital hardening costs and programming expenses for two years</td>
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<tr>
<td>(G)</td>
<td>Create Bus Circulator Service</td>
<td>Operating expenses for two years (subject to revision)</td>
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<tr>
<td>(H)</td>
<td>Streetscape Improvements at B108th Street &amp; Beach Channel Drive</td>
<td>Capital hardening costs and programming expenses for two years</td>
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<tr>
<td>(I)</td>
<td>Build Harbor Park at B108th Street</td>
<td>Joint study with Five Towns to study road improvements along Ri 878</td>
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<tr>
<td>(J)</td>
<td>Support National Grid Site Redevelopment</td>
<td>Operations expenses for workforce development programs; including emergency preparedness training</td>
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<tr>
<td>(K)</td>
<td>Issue RFP for Expansion of Health Services</td>
<td>Capital costs for infrastructure and two years of operating costs</td>
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</tbody>
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Project list for discussion

Emergency Preparedness and Response
1. Community Emergency Preparedness Education Program
2. Resource/Recovery Centers
3. Critical Facility Upgrades Program

Residential Resiliency
1. Homeowner Information and Counseling Program
2. Homeowner Assistance Program
Project list for review

Coastal Protection
1. Southeast Brooklyn Waterfront Coastal Protection Study

Stormwater Management
1. Stormwater Capture Pilot Project(s)
2. Bergen Beach Stormwater Retention System

Power
1. Alternative Power Hotspot
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3. Next steps 9:20-9:30pm
EMERGENCY PREPAREDNESS AND RESPONSE

Strategy: Enhance emergency preparedness and response

Source: Brooklyn Long-Term Recovery Group (LTRG)
### Preliminary projects and recommendations

<table>
<thead>
<tr>
<th>Proposed Projects</th>
<th>Additional Resiliency Recommendations</th>
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<tbody>
<tr>
<td>2. Resource/Recovery Centers</td>
<td></td>
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<tr>
<td>3. Critical Facilities Upgrade Program</td>
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</tbody>
</table>
Project #1: Community Emergency Preparedness Program

Project to develop a local emergency preparedness and response guide, to cover:

- Preparedness measures
- How to evacuate
- Where to go to access supplies and information
- Existing City resources and CERT

Precedents:

- Red Hook Hub community bulletin board and Community Readiness Plan (http://redhookhub.org/)
- “Go to High Ground” guide, developed by College of Staten Island

Estimated cost: $50,000-$60,000

(includes consultant time for producing guide; programming; materials production and printing)
Project #2: Resource/Recovery Centers

Recovery centers to be based in existing organizations’ facilities. Could provide:

- Resilient power
- Food and water
- Information
- Non-urgent medical assistance

Organization/facility considerations:

- Located outside of floodplain
- Parking lot
- ADA-compliant or ability to be made compliant

Estimated cost: scalable

Each center: $300,000-$700,000

(includes resilient power and other hardening costs, consultant time for education/programming over 2 years)
Project #3: Critical Facility Upgrades Program

Full/partial grants to help social and health service providers make capital upgrades to enhance resiliency

Could include backup generators, flood proofing measures

Estimated cost: scalable

Example measures:

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

Flood proofing measures (e.g., elevating mechanicals): $80,000-$90,000
Strategy: Improve residential resiliency through education, technical assistance, and funding
## Preliminary projects and recommendations

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<tbody>
<tr>
<td>1. Homeowner Information and Counseling Program</td>
<td>1. Revise National Flood Insurance Program</td>
</tr>
<tr>
<td>2. Homeowner Technical Assistance Program</td>
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</tbody>
</table>


Project #1: Homeowner Information and Counseling Program

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

Targeted to 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)
Project #2: Homeowner Assistance Program

Project to offer **technical and financial assistance to high-risk homeowners** in the 100-year floodplain, enabling them to make improvements and lower risk

Geared at **homeowners in the 100-year floodplain**

**Technical assistance** could consist of **audits** by specialized engineers

**Financial assistance** could consist of **grants** and/or **low-cost loans** to help make recommended upgrades

**Estimated cost: scalable**

**Technical assistance:**
One audit: $500-$1,000/home

**Financial assistance:**
(Example measure) Check valve: $1,000

**Staff time, programming, and materials over 2 years:** $250,000-$300,000
ECONOMIC DEVELOPMENT

Strategy: Improve resiliency of commercial corridors and critical supply chains
Preliminary projects and recommendations

Additional Resiliency Recommendations

1. Expand the Fuel NY Initiative to include more gas stations in the floodplain
COASTAL PROTECTION

**Strategy**: Reduce neighborhood flooding through stabilizing the coastal edge, discouraging development at at-risk locations, and mitigating any potential negative impacts of new projects.
## Preliminary projects and recommendations

### Proposed Projects

1. Comprehensive Coastal Protection Study

### Additional Resiliency Recommendations

1. USACE Recommendation: Incorporate Planning Area flood protection in current studies/initiatives
2. Assess Impacts of New or Upcoming Area Projects
Project #1: Comprehensive Coastal Protection Study

Assessment of high-risk residential areas prone to flooding

Comparison, feasibility analysis, and conceptual design of potential alternatives, including berming, floodwalls, and floodgates at targeted locations

Community engagement to ensure public support of proposed alternatives

Coordination with USACE and other agencies’ plans

Estimated cost: $500,000
DRAINAGE AND STORMWATER MANAGEMENT

Strategy: Improve stormwater and wastewater management to prevent flooding and backup
## Preliminary projects and recommendations

### Proposed Projects

1. Stormwater Capture Pilot Project(s)
2. Bergen Beach Stormwater Retention System

### Additional Resiliency Recommendations

1. Assess Area Sewer System
Project #1: Stormwater Capture Pilot Project(s)

Reduce stormwater flooding at one or more targeted locations

- Target most areas where street flooding is most severe and implementation feasible
- Pilot potentially replicable techniques which might include: bioswales, rain gardens, blue or green roofs, etc.

Estimated cost: scalable

Study: $150,000 (co-sponsored with Canarsie)

Example pilot project:
Bioswale: ~$25,000
Project #2: Bergen Beach Stormwater Retention System

Stormwater detention/retention system within a natural area of southern Bergen Beach on parkland owned by City Parks Department

System would collect and detain stormwater, releasing it into system slowly after rain event to mitigate back-up

Estimated cost: approx. $2M-$4M for excavation of a dry retention pond
Strategy: Make the power supply more resilient and redundant
Preliminary projects and recommendations

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<tr>
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<td>Power Infrastructure</td>
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Project: Alternative Power Hotspot

Project to **install resilient power infrastructure** within the parking lots of critical retailers in the Planning Area

Project could include:
- Lighting
- Cell phone charging station
- Stormwater capture measures to “green” the lot and capture runoff (later phases)

**Estimated cost: scalable**

**Each hotspot:**
$125,000-$150,000
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3. Next steps 9:20-9:30pm
Next steps

PE#3 meeting on Wednesday, November 12
- Outreach
- Meeting format
- Boards review schedule

PC#8: project voting on Wednesday, November 19