



Bay Park and Village of East Rockaway

Planning Committee Meeting #2

October 8, 2013

East Rockaway Village Hall

Agenda

1. Introductions & Welcome (6:30 pm)

2. Presentation (6:40 pm)

- What happened and why?
- Future Risk
- Strategies to Evaluate Potential Projects

---Discussion Items ---

3. Community Assets and Risks (7:00 pm)

4. Potential Projects (7:20 pm)

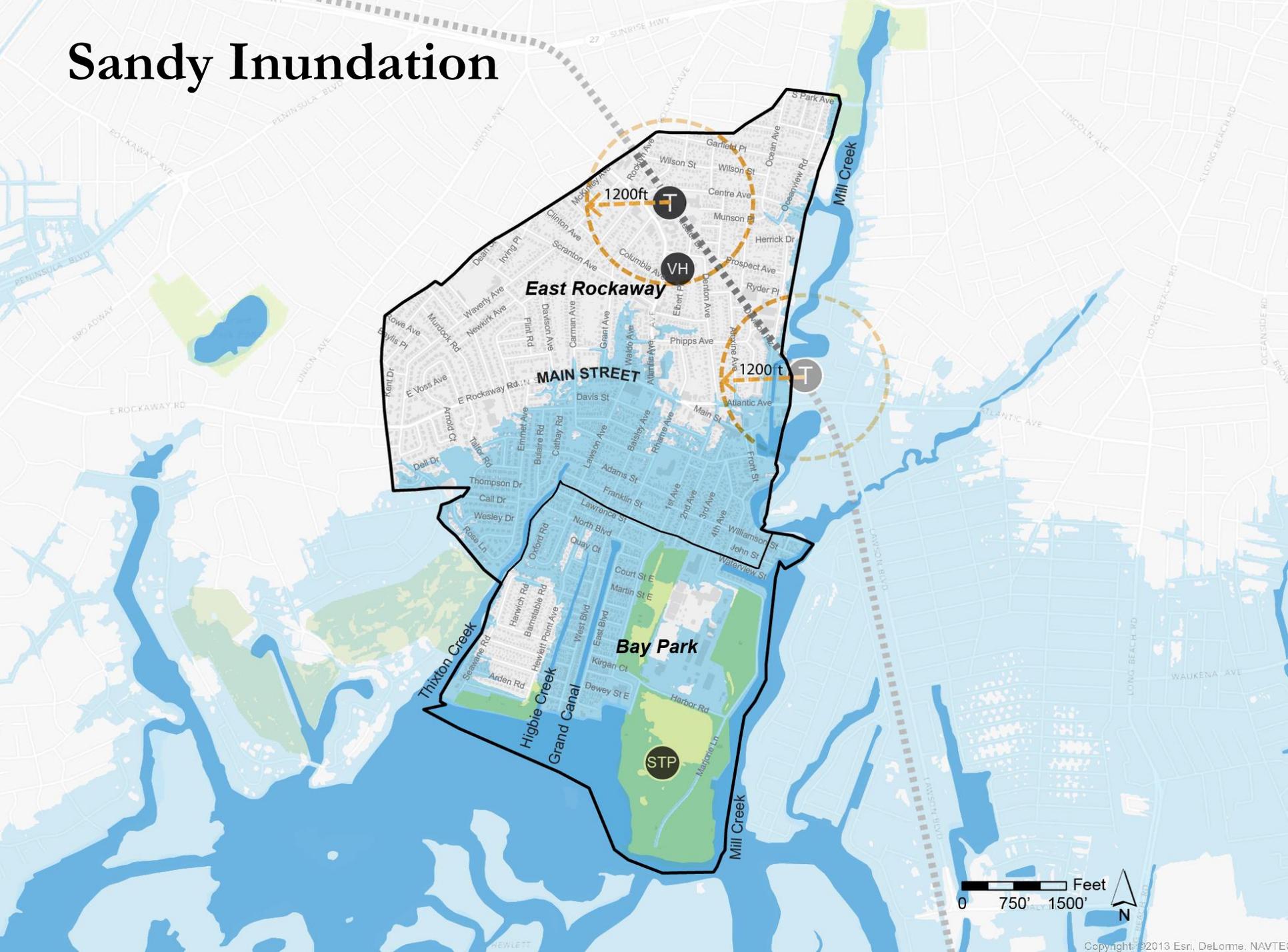
5. Vision Statement (7:40 pm)

6. Public Outreach Strategy (8:00 pm)

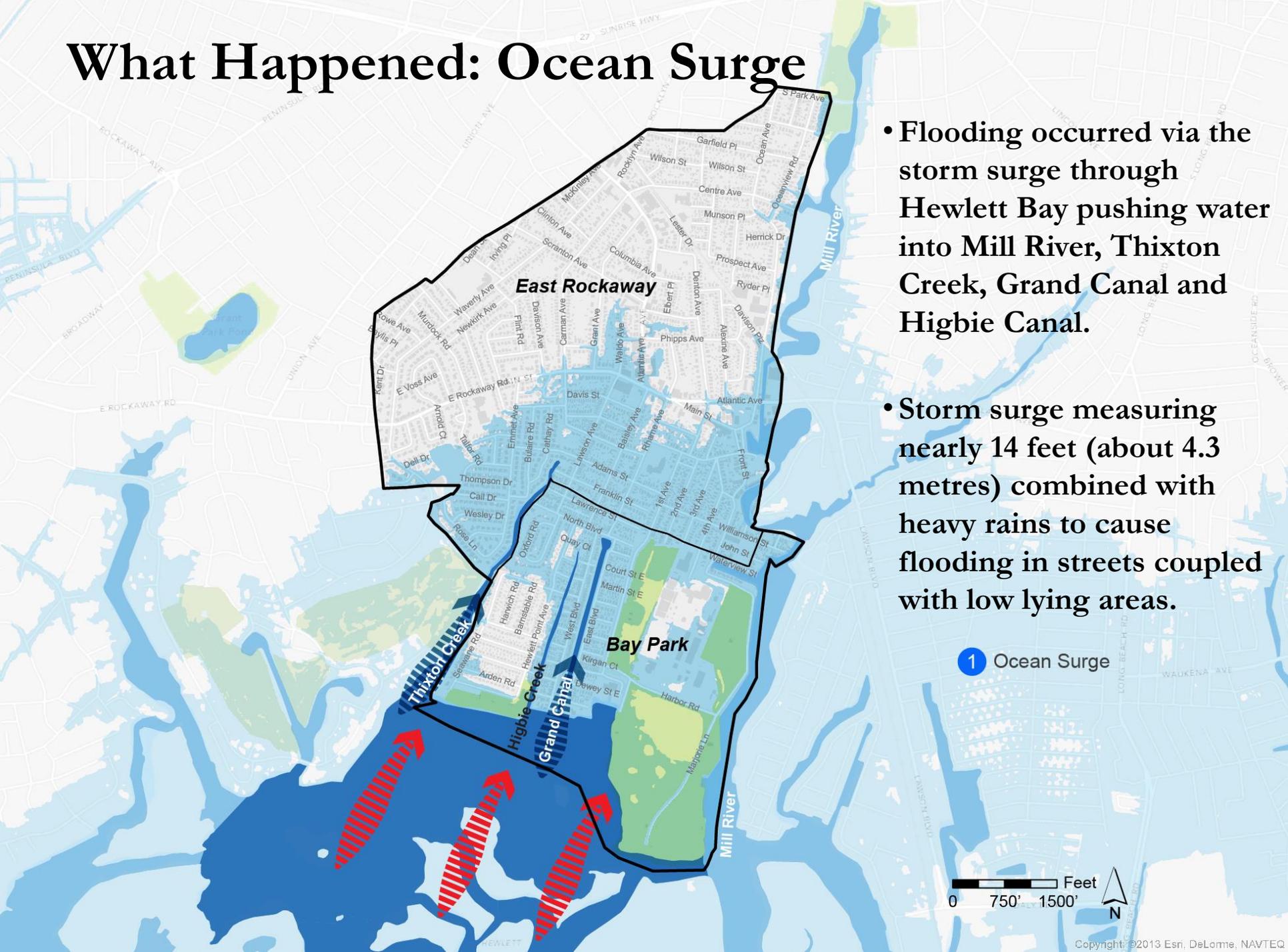
7. Next Steps and Q&A (8:20 pm)

8. Wrap-Up (8:30 pm)

Sandy Inundation



What Happened: Ocean Surge



- Flooding occurred via the storm surge through Hewlett Bay pushing water into Mill River, Thixton Creek, Grand Canal and Higbie Canal.
- Storm surge measuring nearly 14 feet (about 4.3 metres) combined with heavy rains to cause flooding in streets coupled with low lying areas.

1 Ocean Surge

0 750' 1500' Feet



What Happened: Mill River Overflow



East Rockaway

Bay Park

- 1 Ocean Surge
- 2 Mill River Overflow

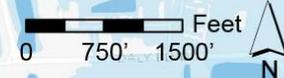


What Happened: Stormwater Flooding

- Storm water system backed up since the outfalls were below the high tide surge elevation.
- Tidal waters also entered the storm drainage system through unprotected outfalls and outfalls not equipped with backflow valves/gates.

Flooding Extents
(High Ground)

- 1 Ocean Surge
- 2 Mill River Overflow
- 3 Flooding Extents



What Happened: Key Causes Summary

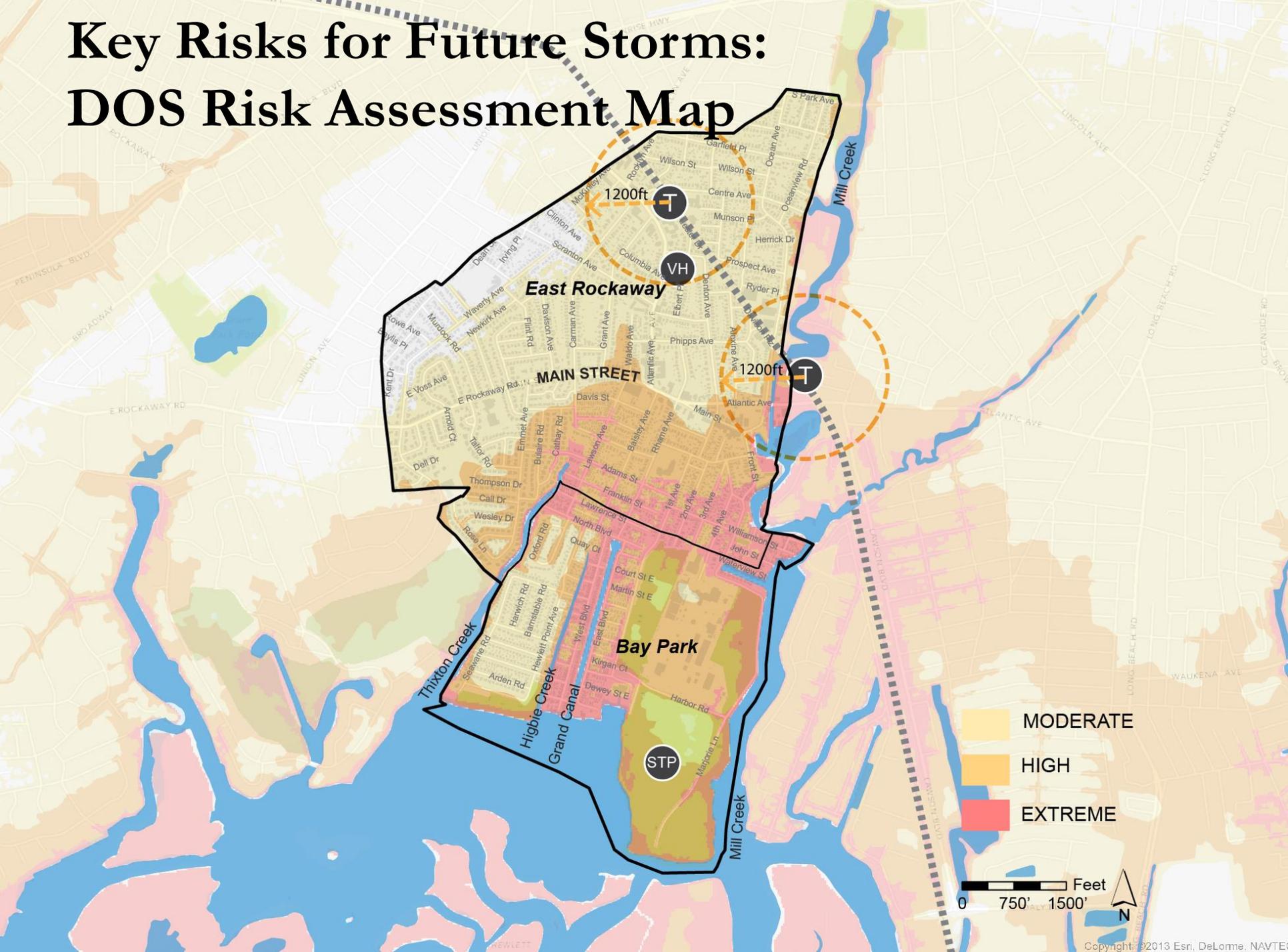
Description of Storm

Storm Drainage Flooding

Recurrent Flooding

Sewage backup

Key Risks for Future Storms: DOS Risk Assessment Map



MODERATE
HIGH
EXTREME

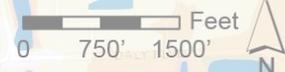
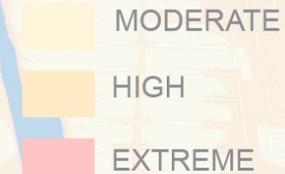
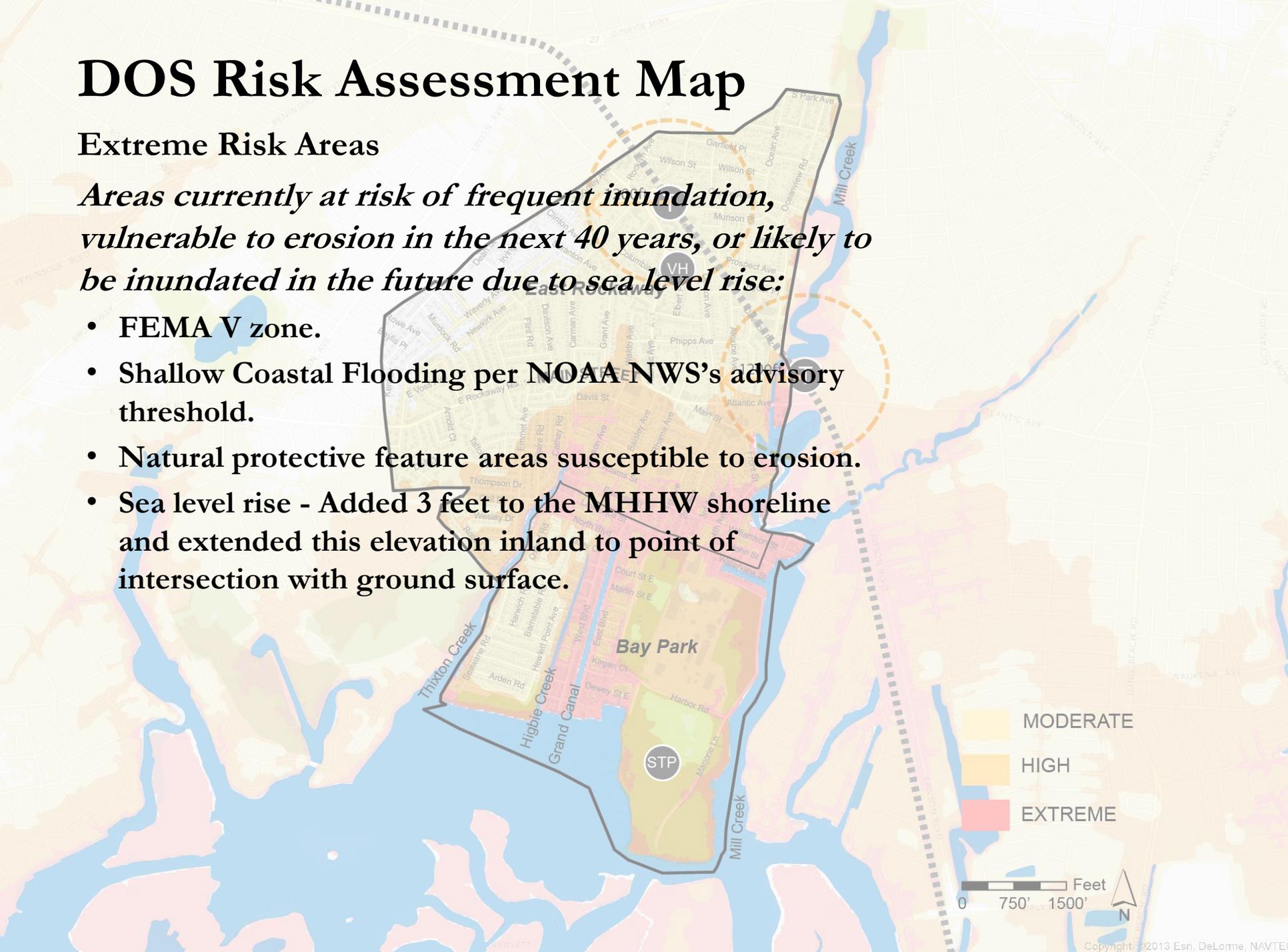
0 750' 1500' Feet

DOS Risk Assessment Map

Extreme Risk Areas

Areas currently at risk of frequent inundation, vulnerable to erosion in the next 40 years, or likely to be inundated in the future due to sea level rise:

- FEMA V zone.
- Shallow Coastal Flooding per NOAA NWS's advisory threshold.
- Natural protective feature areas susceptible to erosion.
- Sea level rise - Added 3 feet to the MHHW shoreline and extended this elevation inland to point of intersection with ground surface.

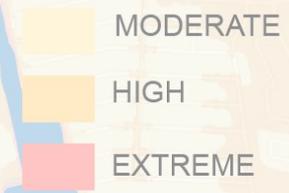
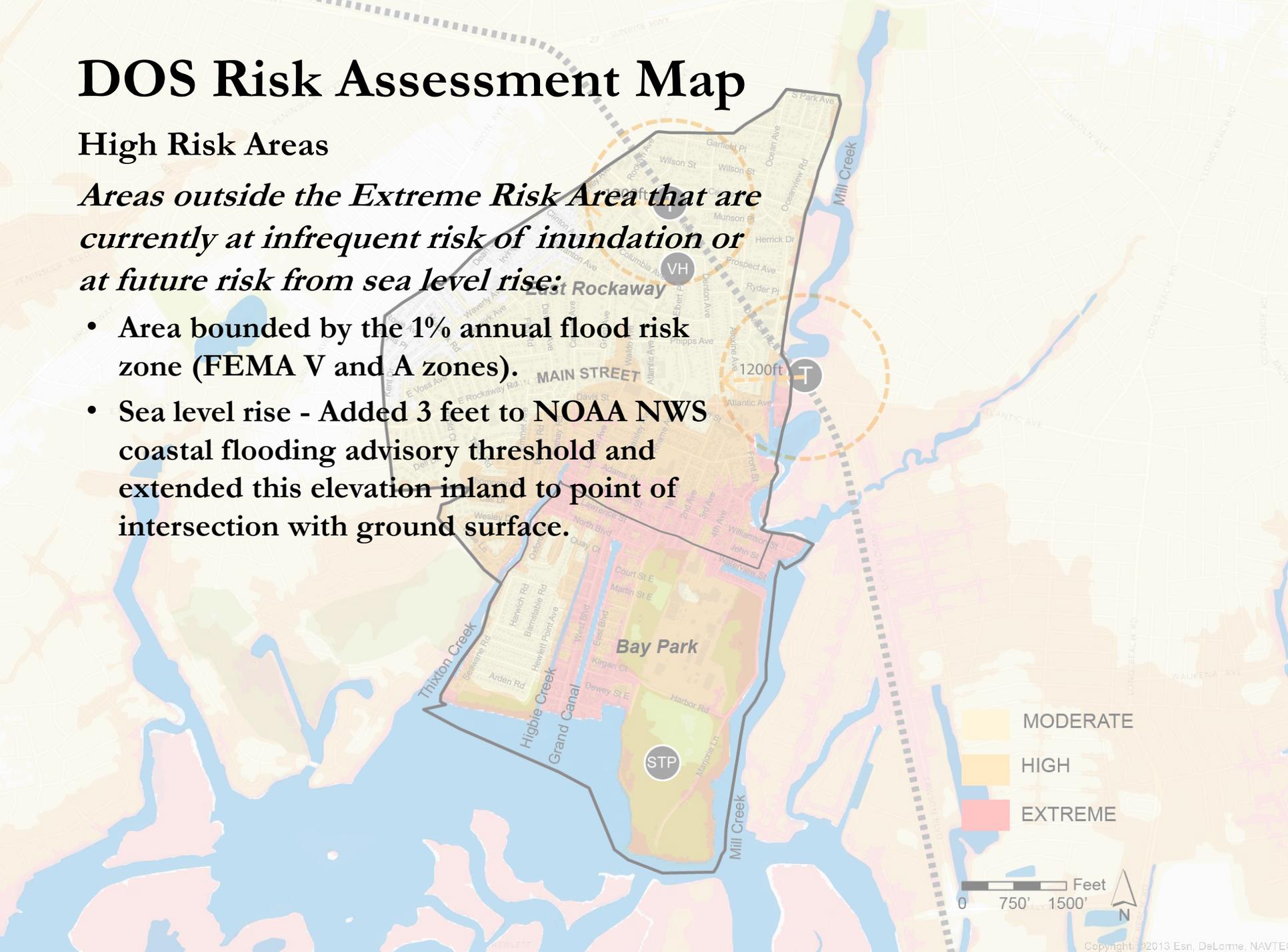


DOS Risk Assessment Map

High Risk Areas

Areas outside the Extreme Risk Area that are currently at infrequent risk of inundation or at future risk from sea level rise:

- Area bounded by the 1% annual flood risk zone (FEMA V and A zones).
- Sea level rise - Added 3 feet to NOAA NWS coastal flooding advisory threshold and extended this elevation inland to point of intersection with ground surface.

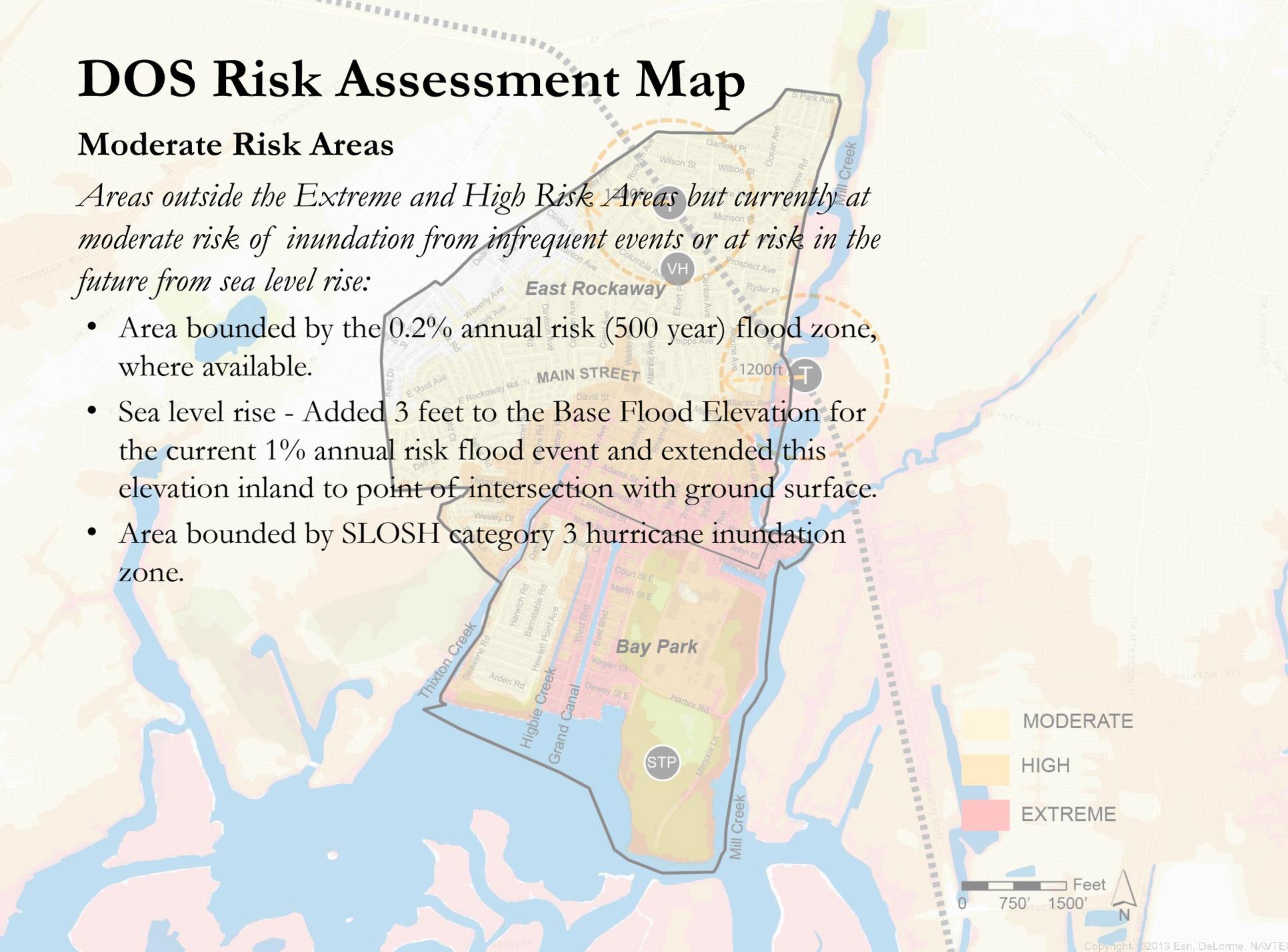


DOS Risk Assessment Map

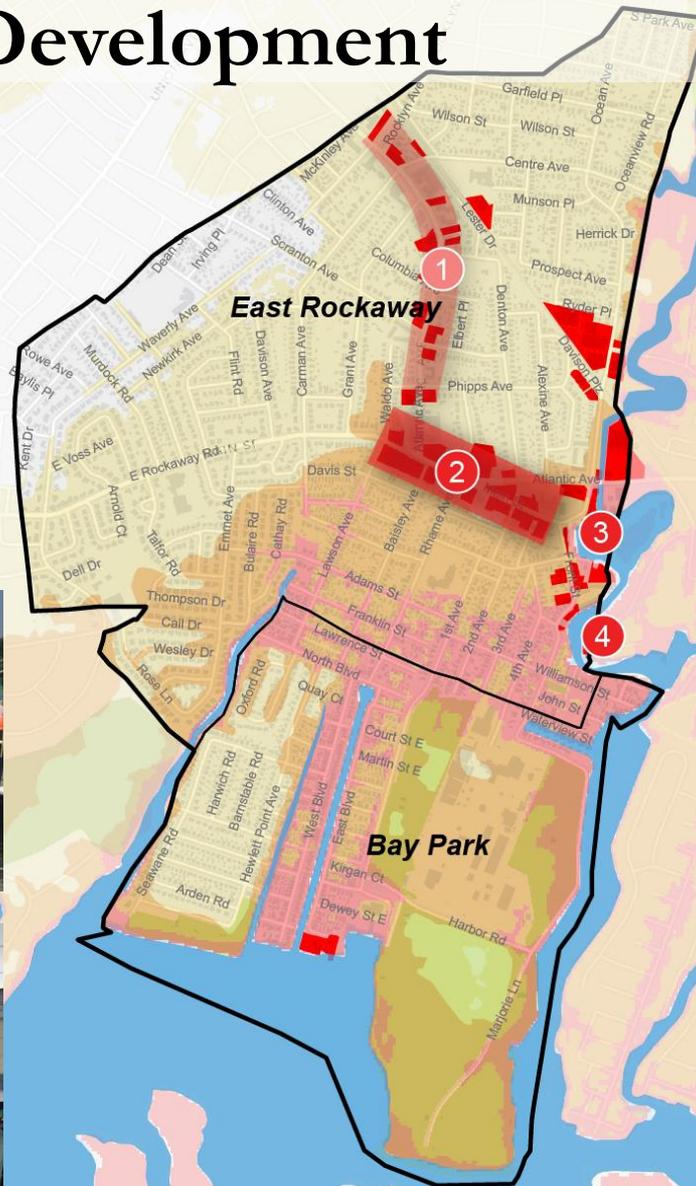
Moderate Risk Areas

Areas outside the Extreme and High Risk Areas but currently at moderate risk of inundation from infrequent events or at risk in the future from sea level rise:

- Area bounded by the 0.2% annual risk (500 year) flood zone, where available.
- Sea level rise - Added 3 feet to the Base Flood Elevation for the current 1% annual risk flood event and extended this elevation inland to point of intersection with ground surface.
- Area bounded by SLOSH category 3 hurricane inundation zone.



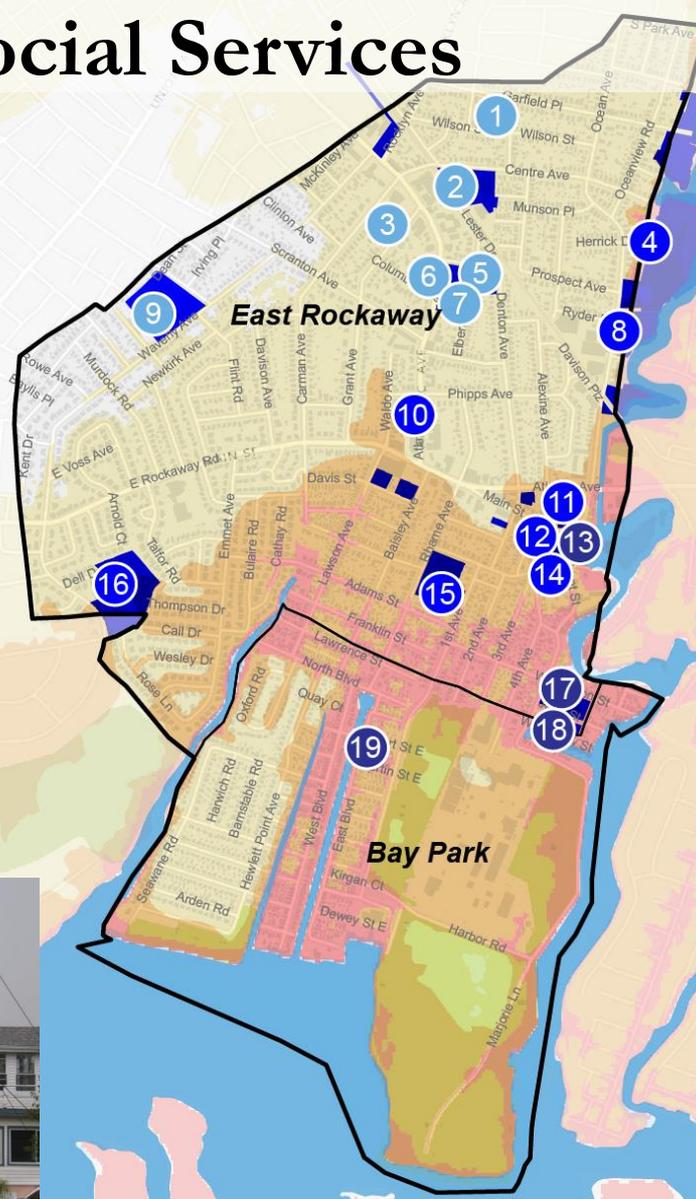
Community Assets & Risk: Economic Development



- 1 Downtown East Rockaway
- 2 Main Street Corridor
- 3 Talfor Boat Basin
- 4 New Street Industrial



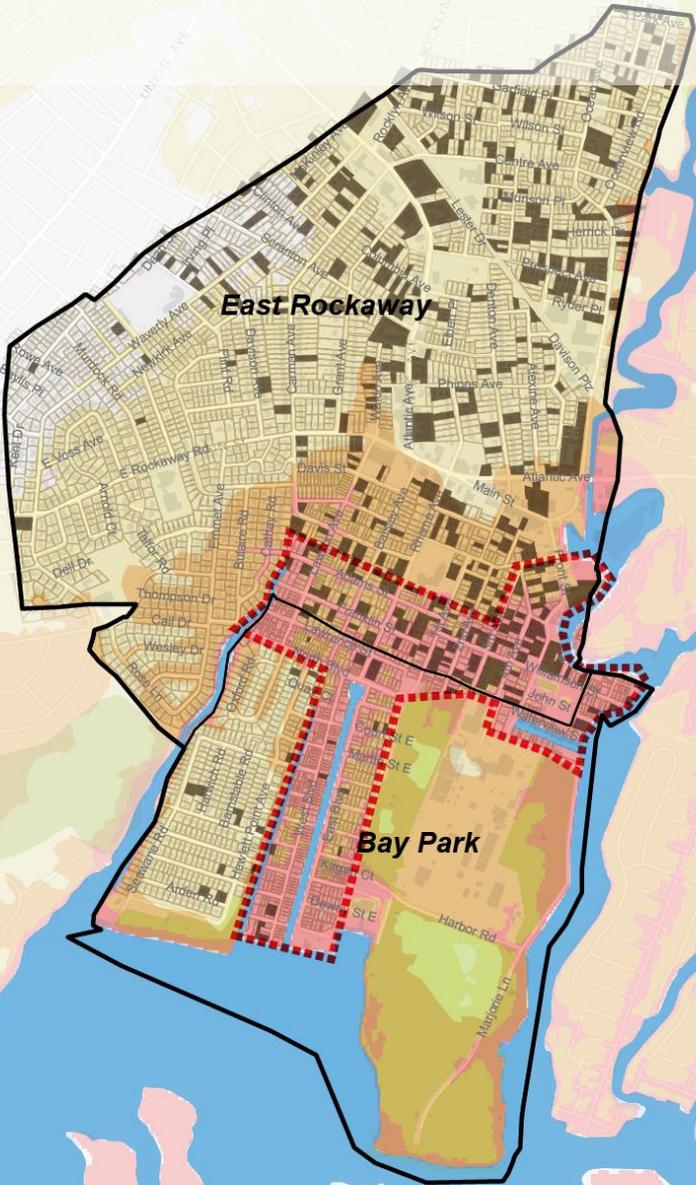
Sandy's Effect on Key Assets: Health & Social Services



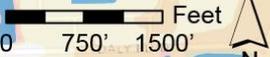
- 1 East Rockaway Fd Hose 2
- 2 Centre Avenue Elementary School
- 3 East Rockaway Fd Hose 1
- 4 **East Rockaway High School**
- 5 Haviland-Davison Grist Mill and Musuem
- 6 East Rockaway Village Hall
- 7 East Rockaway Senior Cit Center
- 8 **Rolling River Day School**
- 9 Marion Street School
- 10 **Village of East Rockaway: Fire Dept.**
- 11 **U S Post Office East Rockaway**
- 12 **East Rockaway Fd Engine 1**
- 13 **East Rockaway Fd Truck 1**
- 14 **Jack & Jill Playland**
- 15 **Rhame Avenue School**
- 16 **Waverly Park School**
- 17 **East Rockaway DPW**
- 18 **John Street Complex**
- 19 **Bay Park Fire District**



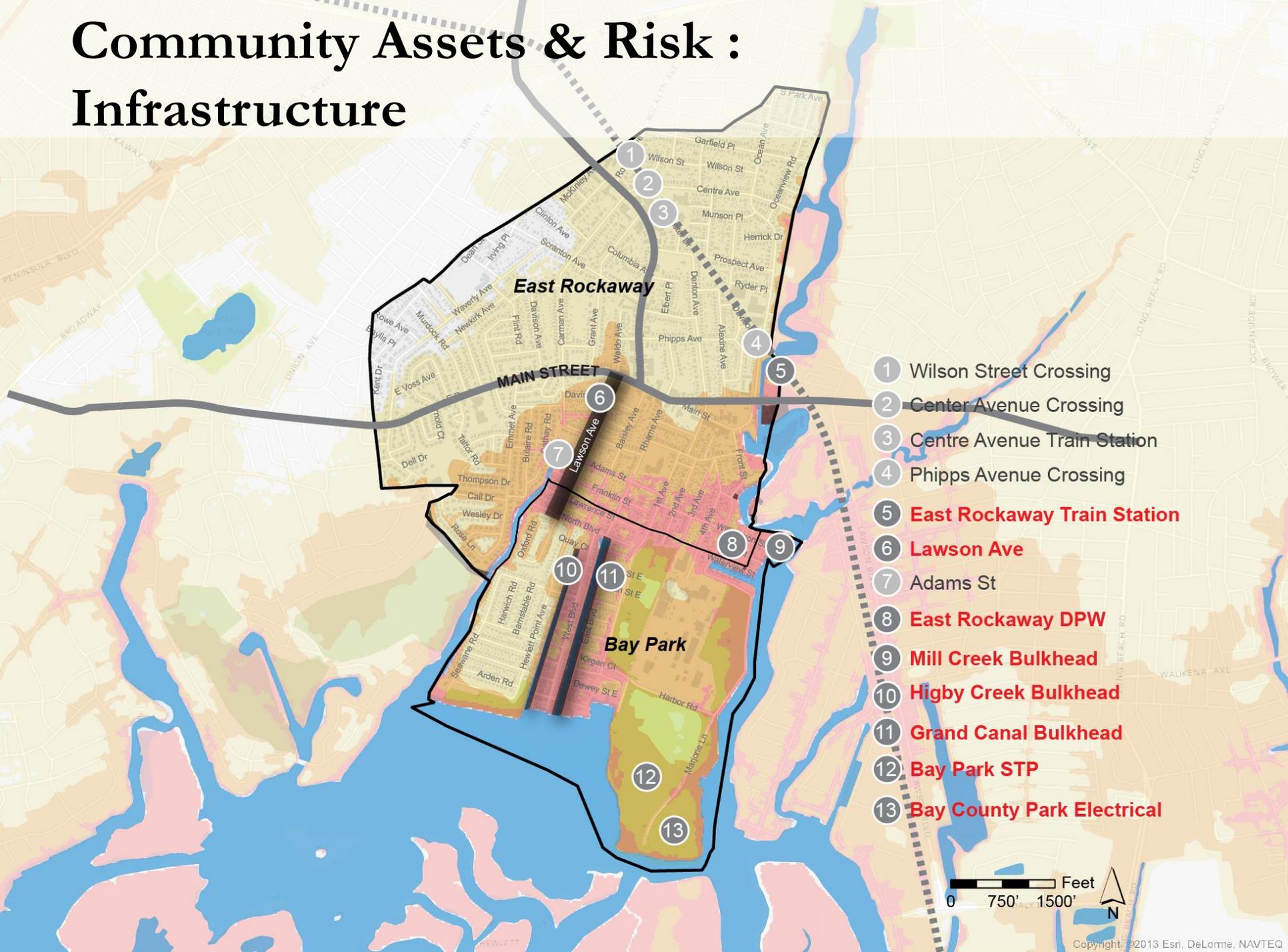
Community Assets & Risk: Housing



- Single Family Housing
- Multi Family Housing
- Most Vulnerable Housing



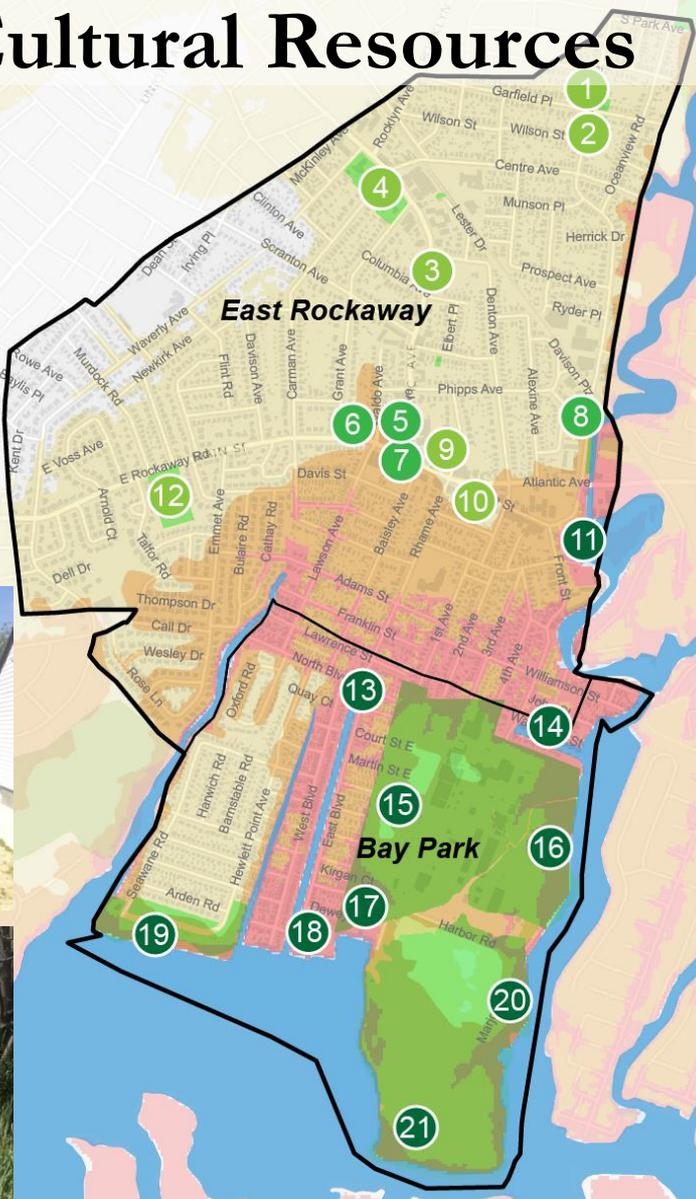
Community Assets & Risk : Infrastructure



- 1 Wilson Street Crossing
- 2 Center Avenue Crossing
- 3 Centre Avenue Train Station
- 4 Phipps Avenue Crossing
- 5 **East Rockaway Train Station**
- 6 **Lawson Ave**
- 7 Adams St
- 8 **East Rockaway DPW**
- 9 **Mill Creek Bulkhead**
- 10 **Higby Creek Bulkhead**
- 11 **Grand Canal Bulkhead**
- 12 **Bay Park STP**
- 13 **Bay County Park Electrical**



Community Assets & Risk: Natural & Cultural Resources



- 1 Church Of The Nazarene
- 2 Little Pebbles School
- 3 Memorial Park & Grist Mill Museum
- 4 St Raymonds Church\ Elementary School
- 5 East Rockaway Fd Headquarters
- 6 VFW Post 3350
- 7 East Rockaway Library
- 8 Kevin E. McNulty Park
- 9 Bethany Congregational Church & YMCA Youth Life Center
- 10 American Legion Post 958
- 11 Talfor Boat Basin
- 12 Hewlett East Rockaway Jewish Centre
- 13 Grand Canal
- 14 John Street Recreational Center
- 15 Bay Park Playground
- 16 Bay Park Administraion Building
- 17 NCPD Marine Bureau
- 18 Bay Park Civic Center
- 19 Hewlett Point Park
- 20 Bay Park Boat Ramp
- 21 Bay Park



Community Assets & Risk: Vulnerable Populations



1 Elderly Population (dispersed)

2 East Rockaway Progressive Care (Nursing Home)



Potential Projects to Address Future Risks

COASTAL PROTECTION – BULKHEAD REPAIRS

- 1 HIGBY CREEK: BULKHEADING/HARDENING
- 2 SOUTH 8TH AVENUE AND WILLIAM ST. BULKHEAD REPAIRS
- 3 EAST ROCKAWAY HIGH SCHOOL: BULKHEAD REPAIRS/IMPROVEMENTS

FLOODPROOFING/HARDENING

- 4 PUBLIC WORKS FACILITY: HARDEN/FLOODPROOF GARAGES AND EQUIPMENT
- 5 JOHN STREET RECREATION CENTER: FLOODPROOFING
- 6 FLOODPROOF RADIO & CELL PHONE TOWERS

INFRASTRUCTURE REPAIRS/IMPROVEMENTS

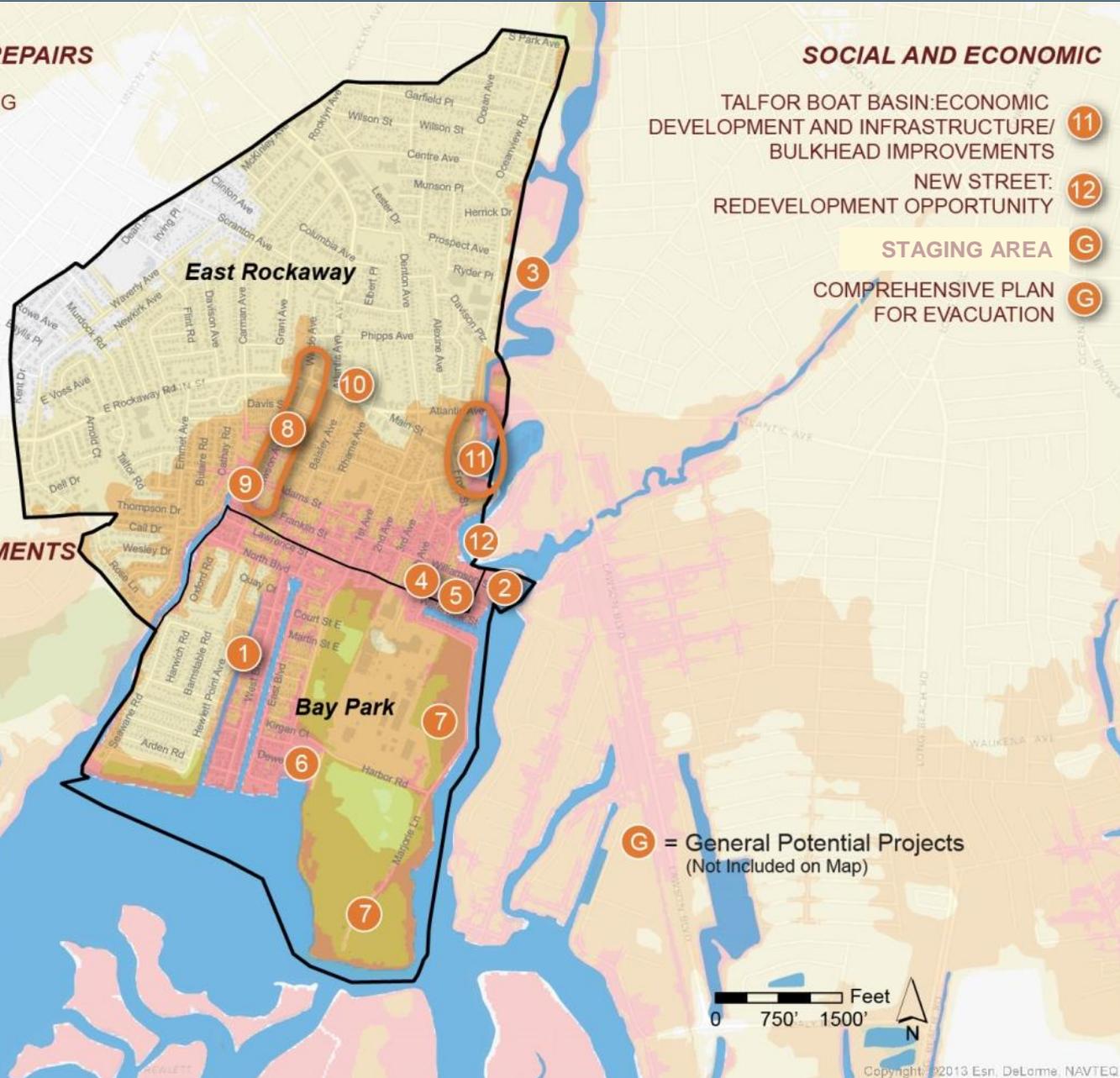
- 7 BAY COUNTY PARK: REPAIRS/IMPROVEMENTS
- 8 RAISE LAWSON AVENUE
- 9 ADAMS STREET: DRAINAGE IMPROVEMENTS
- 10 FIRE DEPARTMENT: NEW EQUIPMENT TO AID RESPONSE CAPABILITY
- G SEWER INFRASTRUCTURE CLEANING AND CAPACITY UPGRADE
- G OUTFALL PIPE UPGRADES
- G MOVE CRITICAL EQUIPMENT ABOVE ABFE

SOCIAL AND ECONOMIC

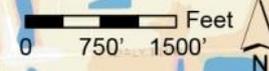
- 11 TALFOR BOAT BASIN: ECONOMIC DEVELOPMENT AND INFRASTRUCTURE/ BULKHEAD IMPROVEMENTS
- 12 NEW STREET: REDEVELOPMENT OPPORTUNITY

STAGING AREA

- G COMPREHENSIVE PLAN FOR EVACUATION



G = General Potential Projects (Not Included on Map)



Potential Projects to Address Future Risks

Coastal Protection – Bulkhead Repairs

- Higbie Creek (#1)
- South 8th Avenue and William St (#2)
- East Rockaway High School (#3)

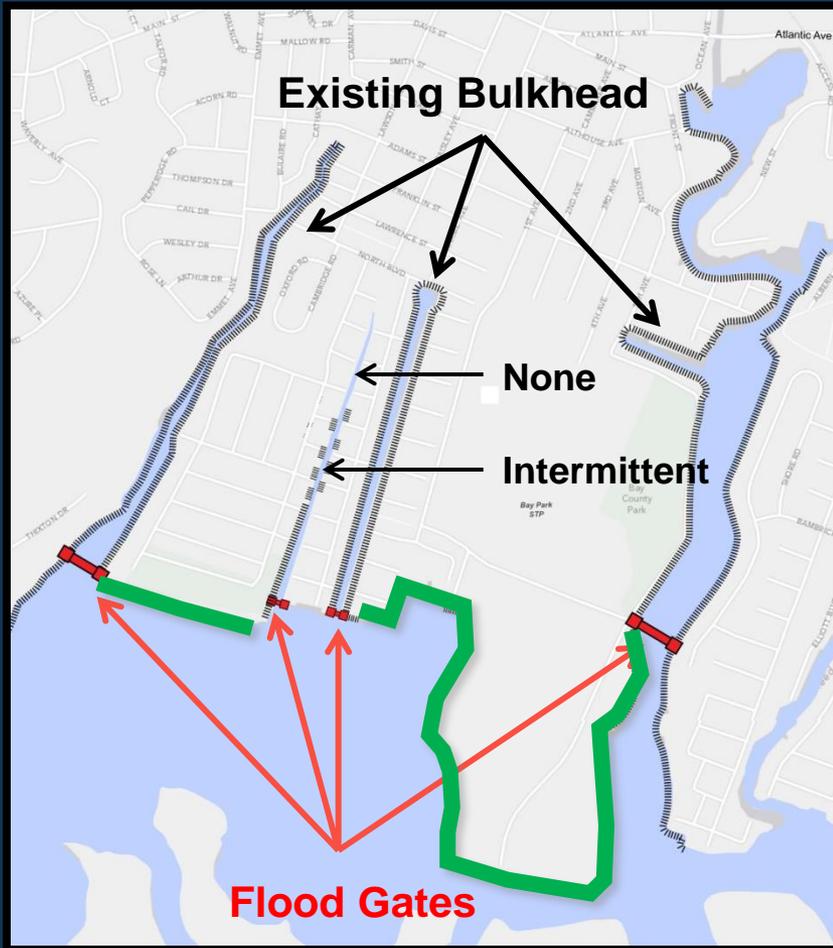


**Higbie
Creek**

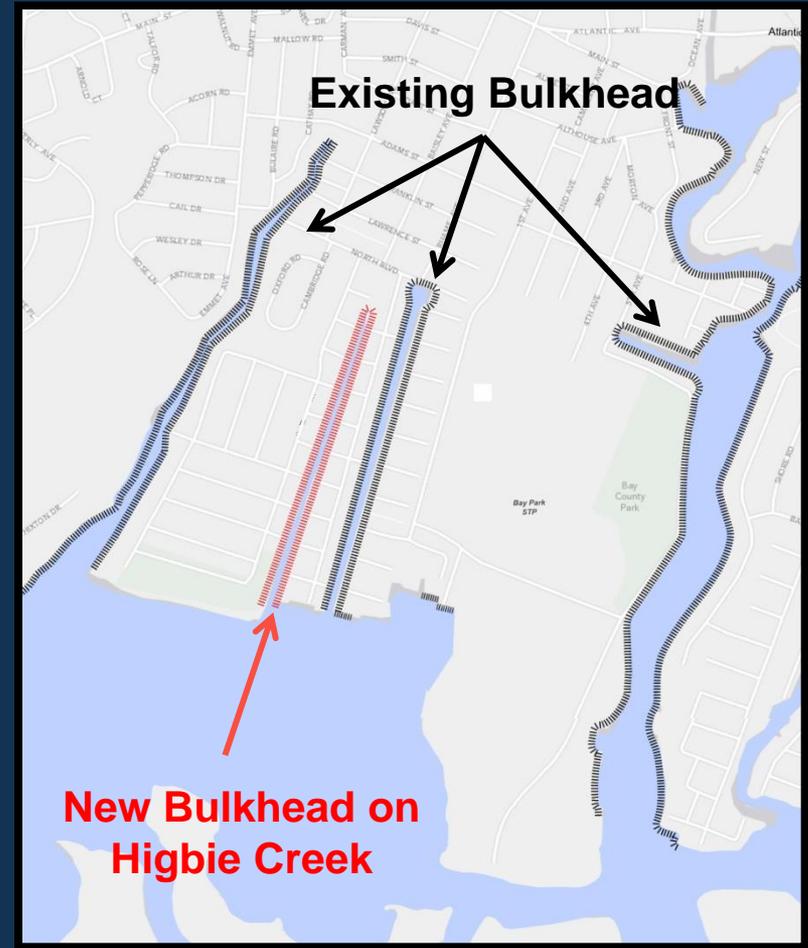
**Grand
Canal**



Coastal Protection: Bulkheading and Storm Gates



Flood Gates



Bulkheading

Potential Projects to Address Future Risks

Floodproofing/hardening

- Public Works Facility (#4)
- John Street Recreational Complex (#5)
- Radio & cell phone towers (#6)



Potential Projects to Address Future Risks

Social and Economic

- Talford Basin Improvements and Redevelopment Opportunity (#11)
- New Street Redevelopment (#12)
- Municipal shelter
- Comprehensive plan for evacuation



Potential Projects to Address Future Risks

Infrastructure Repairs/Improvements

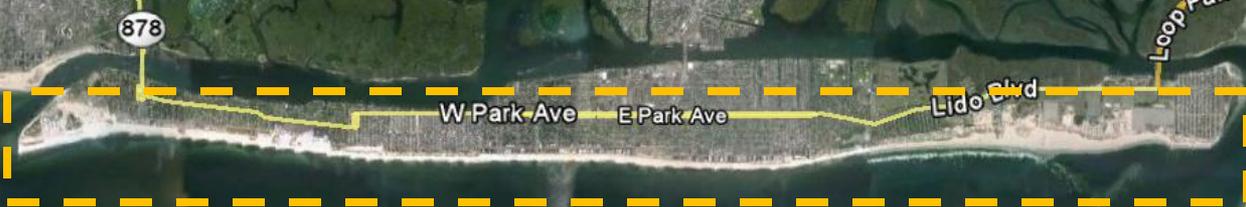
- Bay County Park (#7)
- Raise Lawson Avenue (#8)
- Fix Drainage at Adams Street (#9)
- Fire Department Equipment (#10)
- Sewer infrastructure cleaning and capacity upgrades
- Outfall pipe upgrades
- Move critical equipment above ABFE



Regional Projects to Address Future Risks



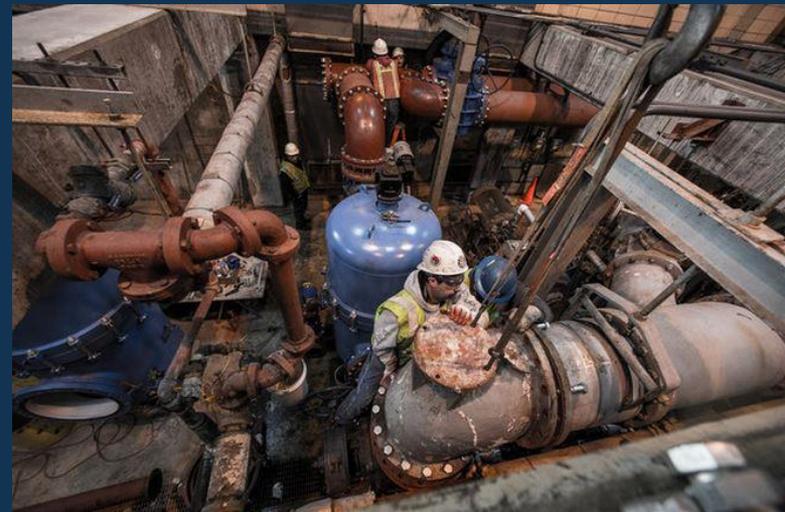
 **Bay Park Sewage Treatment Plan**

 **Dune Reconstruction:**
Atlantic Beach and Long Beach

Regional Projects:

Bay Park Sewage Treatment Plan

- Plant processes 70 mgd, serves 550,000 people
- Inundation 13-14 Feet:
8 feet plus 6 foot wave height
- 57 hours to get plant running
- Sewage backup in homes
- Partially treated sewage flowed into Rockaway Channel between Oct. 29 and Dec. 21
- Repair status



Nassau County Planned Projects (2013 – 2016)

- 1** EAST ROCKAWAY ROAD DRAINAGE IMPROVEMENTS
- 2** MULTIPLE PROJECTS AT BAY PARK SEWAGE TREATMENT PLANT
- 3** STORMWATER OUTFALL IMPROVEMENTS (BAY PARK)
- G** DRAINAGE FACILITY SIDEWALK REHAB (AS NEEDED)



G = General Planned Projects (Not Indicated on Map)



Evaluation of Potential Projects

CDBG-DR Guidelines

Risk Assessment Matrix

Responsibility of other jurisdictions

- Bay Park Sewage Treatment Plant

Vision Statement - Draft

- “Bay Park and the Village of East Rockaway are two waterfront communities bonded by a shared identity, neighborhood pride and connection to the bay.
- Residents, businesses and institutions in both communities were severely affected by Superstorm Sandy.
- They recognized that these weather events cannot be avoided in the future.
- A community thrives in the face of challenges, where the quality of life, neighborhood character and surrounding natural features are preserved and enhanced.
- Bay Park and the Village of East Rockaway are fortunate to have well established neighborhoods, hard-working and family oriented residents and a strong sense of civic pride, all qualities that will help to foster a shared stake in the future.”

Vision Statement – Draft

This plan will help realize the vision set forth by identifying short and long-term risks, assets, opportunities, strategies and funding sources to the following 6 Category Areas:

- **Economic Development**
- **Health and Social Services**
- **Housing**
- **Infrastructure**
- **Natural and Cultural Resources**
- **Community Planning and Capacity Building**

Vision Statement – Draft

Economic Development

- Strengthen key commercial areas including Main Street, Atlantic Avenue and the Talfor Boat Basin.
- Involve local businesses, commercial landlords and Chamber of Commerce in planning process.

Vision Statement – Draft

Health and Social Services

- Improve public works' capability to secure safety during storm events
- Harden/floodproof municipal infrastructure

Vision Statement – Draft

Housing

- Defend neighborhoods from flooding
- Assist residents in their efforts to rebuild and protect their homes.

Vision Statement – Draft

Infrastructure

- Re-establish a robust infrastructure system:
- Well-maintained and drained streets
- Clean and reliable water supply
- Clean and reliable wastewater treatment
- Strengthened and environmentally sensitive storm water treatment network
- Reliable electrical distribution system.

Vision Statement – Draft

Natural and Cultural Resources

- Protect and enhance the quality and natural beauty of the Hempstead Bay and surrounding ecosystem.
- Allow the communities to enjoy the Bay, while respecting and addressing the potential of the Bay as a source of risk.

Vision Statement – Draft

Community Planning and Capacity Building

- Encourage community wide participation.
- Socially responsible process.
- Elderly and special needs concerns recognized.
- Build upon strong network of civic and religious organizations.

Vision Statement – Draft

In addition, the Vision will also recognize **Regional Coordination and Cooperation.**

- Forge strong and effective partnerships with neighboring communities that share ecological, economic, social and infrastructure systems.

Public Engagement Strategy

1. Project Website

- <http://stormrecovery.ny.gov/nyrcr/community/bay-park-and-village-east-rockaway>

2. Online/In-person Survey

3. News Media/PR Outreach

4. Flyers

5. Community Television

6. Translation



Public Engagemeent Strategy

Public Meeting # 1 (Wednesday, Oct. 16th)

- **Format**

- Open House with station

- **Evening event: 6:30pm – 8:30pm**

- **Information Displays: Opportunities for Input**

- The New York Rising information station

- Facilitated discussions at stations

- Opportunities for community input at all stations

- Emphasis on Issues, Opportunities and Vision for the future

All meetings will include opportunities to talk with the project team and provide input via discussion, comment form, and/or markups on boards, maps, etc.