EAST SHORE BUYOUT AREA REZONING PROPOSAL & UPDATE ON CITYWIDE ZONING FOR FLOOD RESILIENCE

Update for SI AIA

March 16, 2017





Agenda



- 2. Staten Island Buyout Areas rezoning
- 3. Discussion on Flood Text II
 - Issues of height
 - Issues of floor area
 - Climate change preparedness
 - Bungalow typologies and small lots
 - Nonconforming Uses
- 4. Open Discussion



OneNYC: A more resilient New York City



A more resilient NYC is one where neighborhoods, buildings, and infrastructure can withstand and recover quickly from flooding and climate events.

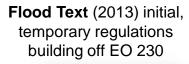
This requires **multiple lines of defense**:

- Infrastructure hardening where feasible, such as the Army Corps of Engineers' Line of Protection and Park's East Shore Master Plan,
- Emergency preparedness, and
- <u>Utilizing building code and zoning</u> as tools so buildings are more resilient against future flooding



Resiliency planning at DCP







SRNR (2015) provides additional zoning relief to expedite recovery



Flood Text II (2018) to be updated and made permanent





Executive Order 230 (2012) mayoral override of zoning



PFIRM + Freeboard (2012) DOB requires most restrictive map; additional elevation



SIRR Report (2013) long-term, citywide resiliency framework



Build it Back (2015) lessons learned in rebuilding effort inform zoning changes



One New York (2015) moves from recovery to future resiliency



Neighborhood Studies (2014-17) will inform the text and local rezonings



DCP's approach to future zoning + land use strategies

Jack Town

Where flood risk is exceptional, including where sea level rise will lead to future daily tidal flooding.

Where risk from extreme events can be managed and infrastructure and context support growth.



Limit

Zoning and other tools should limit exposure to damage and disruption by limiting the density of future development.

Ex. Broad Channel, Hamilton Beach, NYS Buyout Areas, Gerritsen Beach

Accommodate

Adjust zoning to allow buildings to retrofit, by providing flexibility and removing obstacles to resiliency investments.

Ex. Canarsie, Rockaway Park, Sheepshead Bay, Old Howard Beach, East Shore, East Village, Lower East Side, Two Bridges, Edgewater Park, Harding Park

Encourage

Encourage construction of new development built to a higher standard of flood protection.

Ex. Midland Avenue and Sand Lane

*stakeholder input factored into zoning and land-use strategy throughout



Staten Island Buyout Areas Rezoning



East Shore project background: Outreach process













East Shore Resilient Neighborhood Report



The Resilient Neighborhoods East Shore Report is scheduled for release in early Spring.

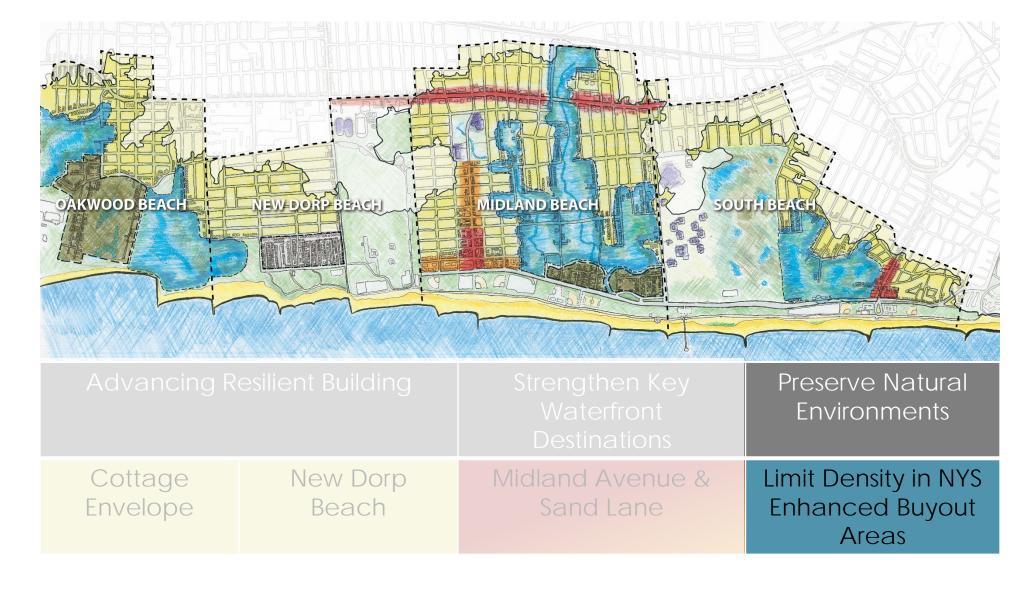
The study's key recommendations include:

- Working to reduce flood risk by supporting the U.S. Army Corp's Line of Protection
- Preserving ecologically sensitive natural environments and open spaces by limiting density and ensuring review of development near wetlands and in other hazardous areas
- Advancing resilient building by creating a new zoning envelope for detached and semi-detached homes in the floodplain and reducing zoned density in New Dorp Beach
- Strengthening key waterfront destinations by exploring rezoning options for Midland Avenue and Sand Lane to encourage attractive mixed-use development



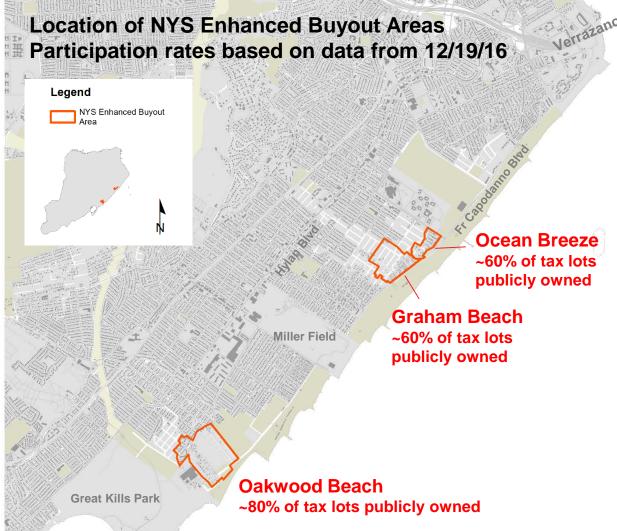
East Shore project background: Resilient Neighborhoods











Key Program Components:

- Acquisition was available to home owners in the Ocean Breeze, Graham Beach, and Oakwood Beach neighborhoods, which were designated on the basis of flood risk and majority of homeowner's desire to depart.
- Eligible homes purchased at pre-storm value
- Homes and vacant land are eligible for buyout
- Commercial properties are ineligible for buyout
- Post-acquisition use restricted to open space
- Program is voluntary and some homeowners will choose to remain in Buyout Areas



Land-use objectives for buyout areas



Oakwood Beach Buyout Area in September 2016

Given the unique set of built and natural conditions existing and planned for the Buyout Areas, a set of landuse objectives has been developed in collaboration with community stakeholders:

- Align local zoning regulations with NYS's long-term vision for the Buyout Areas as open space
- Reduce risk to public safety by limiting future residential development in areas highly vulnerable to flooding and other natural hazards, while ensuring preservation of ecologically sensitive areas
- In commercial areas in Graham Beach, provide commercial buildings relief from high off-street parking requirements that may make reconstruction after a storm more challenging and enable new retail development in a key beachfront location



Jan St.

The proposed zoning strategy would establish a new Special Coastal Risk District (SCRD) aligned with the Buyout Areas.

Lots acquired by the State are deed restricted and no development of any kind will be permitted on these lots regardless of zoning

For new developments on *private vacant land* and *reconstructions* of existing residences:

- The SCRD would limit all new development on privately-owned lots to single-family detached residences and create a new CPC authorization for all new development and enlargements to ensure no increases in residential density or additional effects on sensitive natural areas or constrained infrastructure within the buyout areas. See following slides for more information on criteria for authorization.
- It will also prohibit community facilities with sleeping accommodations. LDGMA limitations on certain community facility uses will be applied consistently across existing R3X, R3-1, and R3-2 districts such that the strictest limitations always apply.
- All existing homes may be completely rebuilt if substantially damaged as a single-family detached residence.



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The proposed zoning strategy would establish a new Special Coastal Risk District (SCRD) aligned with the Buyout Areas.

Lots acquired by the State are deed restricted and no development of any kind will be permitted on these lots regardless of zoning

For existing residences *not being* reconstructed:

- All existing buildings are allowed to elevate and make minor repairs as-of-right.
- All buildings damaged by Sandy may be rebuilt as-of-right.



These rules would likely govern new development on smaller zoning lots under 9,500 square feet

To authorize construction of <u>one new residence</u>, the CPC would consider a range of criteria, including:

- The development's potential impacts on natural drainage, open spaces, and wetland areas
- Whether or not the development would be located on an improved street serving other existing residences
- That the proposed development includes reasonable measures to minimize risks to public safety from natural hazards, including flooding and wild fires
- That useable yard areas are provided outside of DEC wetland adjacent areas

The CPC would have the ability to modify bulk modifications to the extent they are necessary to provide buffering from wetlands and wetland adjacent areas.



These rules would likely govern new development on larger zoning lots over 9,500 square feet

To authorize construction of <u>more than one new residence</u>, the CPC would consider a range of criteria, including:

- Regardless of the underlying district, that the maximum number of residences on the resulting zoning lot is calculated based on a minimum of 9,500 SF of lot area per residence, excluding delineated wetland area.
- The CPC may modify bulk regulations (except FAR) to allow permitted residences to be sited in a manner that would achieve a superior site plan.
- Criteria for a superior site plan include that the configuration of residences facilitates the preservation of wetlands, open space, and natural resources, and limits the need for new roadways; the scale and character of the proposed development would be consistent with the surrounding area; and that new residences are located in proximity to other existing residences.

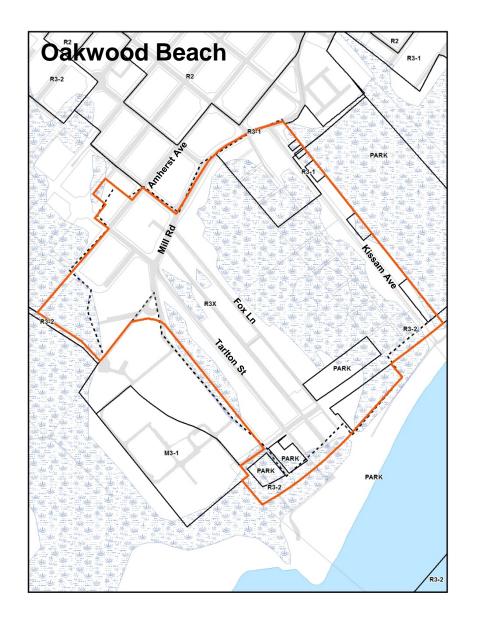


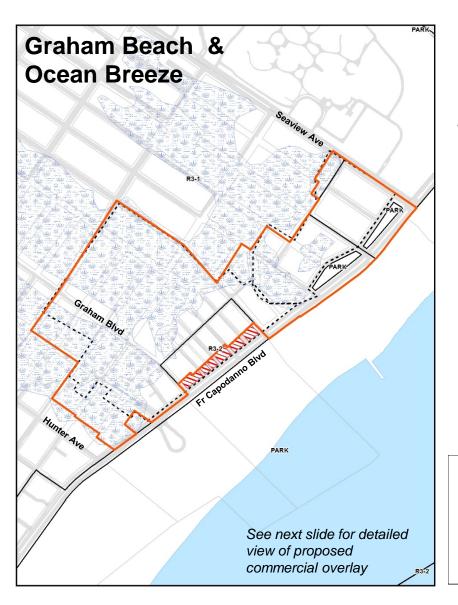
Zoning proposal: Example of authorized wetland adjacent development





Zoning proposal: Zoning boundaries





Note: Special Coastal Risk District Boundaries extend beyond NYS Buyout boundaries only to include lots under public ownership or planned for acquisition for DEP Bluebelts.



Zoning proposal: Commercial overlay in Graham Beach





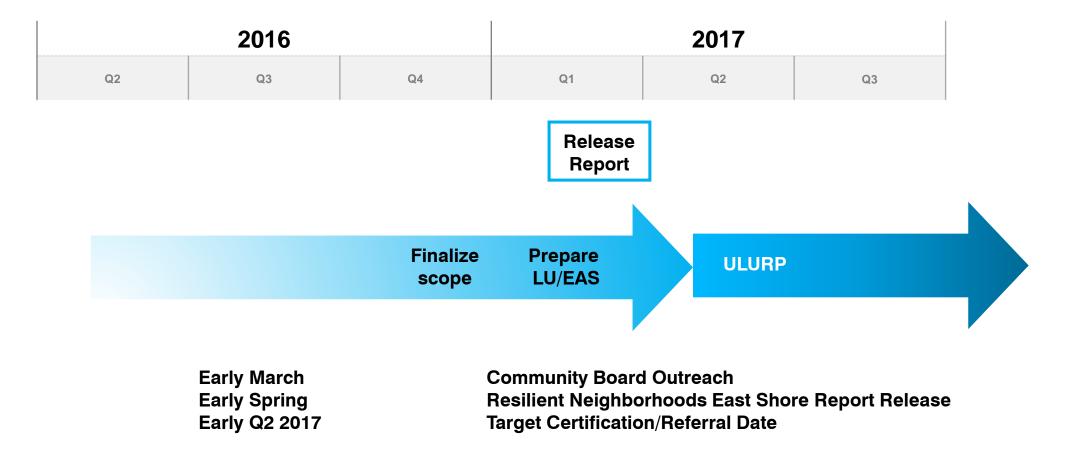
The proposed zoning strategy would alter the current C1-1 Commercial Overlay in Graham Beach

- A rezoning from C1-1 to C1-3 is proposed to match existing commercial uses and development patterns
- C1-3 generally requires one space per 400 sq ft of commercial floor area (general retail or service uses), comparable to existing parking in area
- C1-1 and C1-3 permit the same range of commercial uses to serve local shopping needs and have the same maximum 1.0 FAR for commercial uses
- The C1-3 Overlay and underlying R3-2 zoning would not be included in the Special Coastal Risk District



Buyout areas draft zoning proposal: Project schedule through Q3 2017

Due to the timing of the buyouts and other considerations, including political and community support, it is necessary for DCP's proposal for the Buyout Areas to advance ahead of other zoning changes.





Flood Resilience Text Amendment II



Citywide Resiliency Outreach





Advance Outreach

Scoping / ULURP

Advance outreach will include:

- Identify key stakeholders, including local and citywide organizations and elected officials.
- Brief CB's and other groups on resiliency and zoning issues, prepare for more in depth conversations.
- Public presentations and workshops on the zoning issues and work through options for addressing them.
- Public presentations on full, draft proposal.

*Schedule is tentative and subject to change



Flood risk in NYC



NYC's flood risk is high.

The floodplain affects a large geography and most community and council districts.

100 Year Floodplain FEMA 2013 PFIRM

Population: **400,000** Buildings: **71,500**

50 of 59 Community Boards 45 of 51 Council Districts



Buildings:

80% 1-4 units **7%** 5+ units 13% nonresidential



Residential Units:

30% 1-4 units **70%** 5+ units



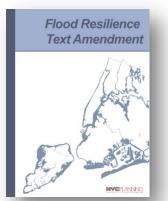
Flood risk in Staten Island





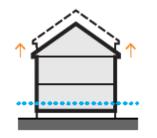
Sources: MapPLUTO; FEMA 2013 Preliminary Flood Insurance Rate Map

2013 Citywide Flood Resilience Text Amendment



*Intended to be updated based on lessons learned, expires 1 year after adoption of PFIRMs.

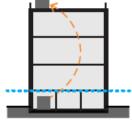
- Height: increases the height limit of all buildings in the floodplain by allowing height to be measured from the Design Flood Elevation (DFE), and in some cases, a higher reference point
- Floor area: allows discounting of floor space when lost in order to come into compliance with the latest building standards (raised entryways, mechanical space, floodproofed areas)
- Retrofitting older buildings: overrides typical zoning rules for non-complying and non-conforming buildings, giving them wide latitude to retrofit and rebuild.
- Design standards: requires elevated buildings to mitigate their impact on the streetscape



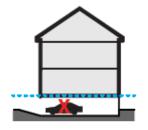
Height must recognize elevation requirements in flood zones



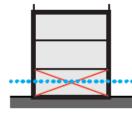
Access need for stairs/ramps requires imaginative solutions



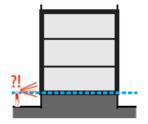
Mechanical Systems must allow relocation out of flood-prone areas



Parking may not be possible below ground



Ground Floor Use buildings may be allowed only limited use of ground floors



Streetscape limit negative effect of blank walls on streetscape



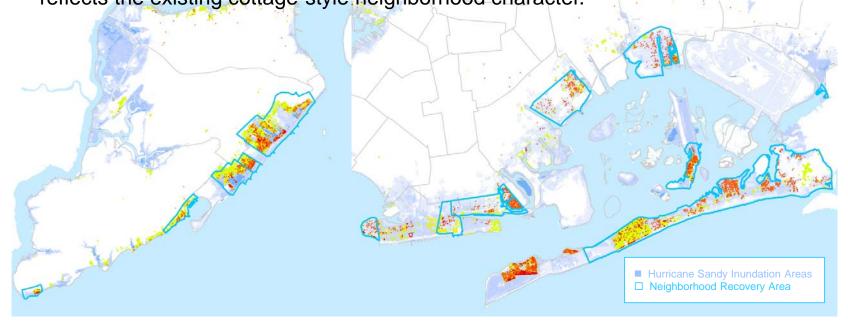
2015 Special Regulations for Neighborhood Recovery



Special rules for select neighborhoods to accelerate recovery from

- **1.Simplifying the process** for documenting non-compliances for Sandy-damaged homes,
- **2.Remove disincentives** for property owners to make resilient investments, by allowing additional habitable space to be elevated to comply with flood-resistant construction standards, and

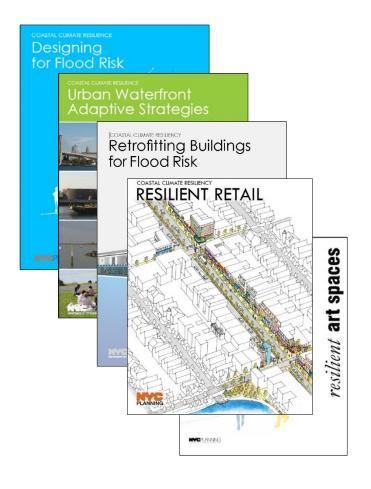
3. Establishing a new zoning envelope, so reconstructed homes are more accurately reflects the existing cottage-style neighborhood character.





Lessons learned since 2013

Citywide DCP Studies:



Neighborhood Studies:





Lessons learned since 2013



Construction/retrofitting activity in the flood zone:

The zoning relief we provided may not be achieving our goal of increasing codecompliant, flood-resistant projects.

36 (31%) approved

24 (21%) underway

0 (0%) complete

48% rejected/pending

DOB Permit Filings

in the flood hazard area, 10/2013 – 1/26/2016

NB Alt-1 1,021 1,090

All 1,021 are 113 (10%) code compliant code compliant

149 (14%) approved 451 (44%) underway 179 (17%) complete

25% rejected/pending

Alt-2 **15,573**

532 (3%) code compliant

245 (46%) approved 122 (23%) underway 9 (1%) complete

30% rejected/pending



Flood resilience zoning - issues



A <u>new</u> citywide resiliency text amendment is necessary for the following reasons:

1. Make the provisions of the 2013 Flood Text permanent so as not to lose the much-needed zoning relief currently given to resilient, fully Appendix G compliant, new and retrofitted buildings in the flood zone.

2. Improve provisions based on lessons learned

analysis of post-Sandy construction activity, as well as engagement with floodplain communities, has highlighted **six key areas** where further zoning relief could be offered

- 1. Need for additional height in some cases
- **2.** Floodproofing + commercial corridors
- **3.** Planning for climate change + future risk
- **4.** Old bungalow homes on very small lots
- 5. Non-conforming homes in C8 / M Districts
- 6. Limiting density in highly vulnerable areas

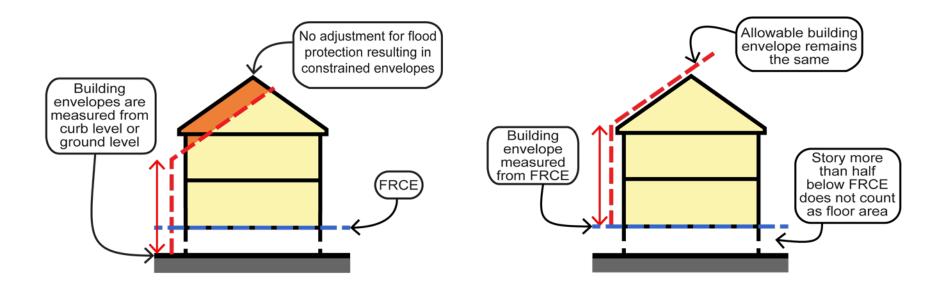
3. Promote new development and proactive retrofitting.

To achieve a greater degree of **building-scale flood resilience**, further incentives could be offered to overcome disincentives to making investments in resiliency.





The 2013 Flood Text allowed for zoning envelopes to be adjusted to the height of the flood elevation.



Where **flood elevations-above-grade are moderate**, additional height is given to ensure that large spaces beneath buildings can be utilized effectively:

1+2 Family Homes: **3'** (6' > 9') Commercial Buildings: **7'** (5' > 12')

Multifamily: **5'** (5' > 10')

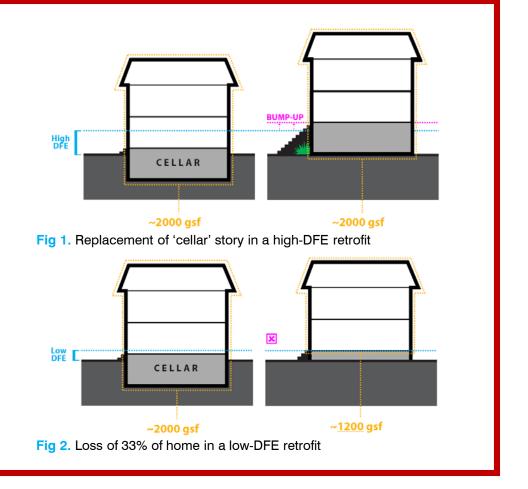




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ISSUE

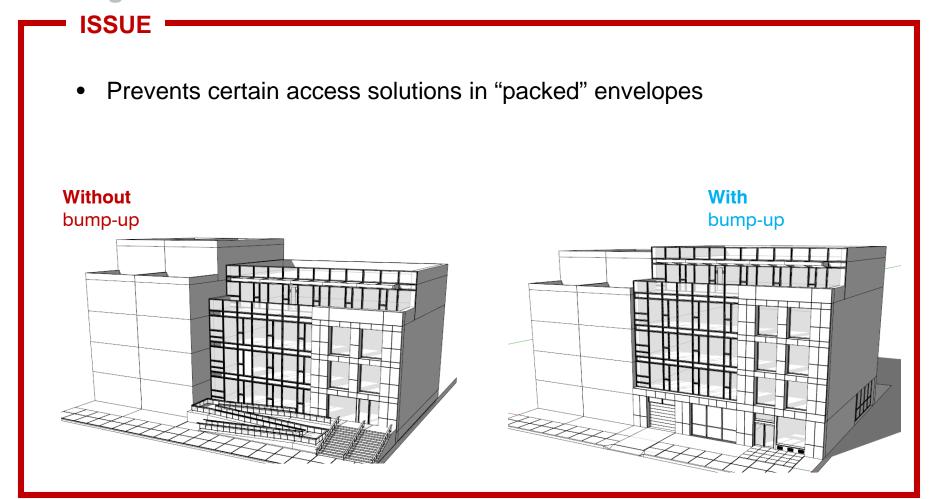
- Should apply more broadly to single-family homes
- Should apply more extensively to large building due to the unique access issues they face
- Does not address the loss of subgrade space (which is expensive to preserve in the flood zone)







The 2013 Flood Text allowed for zoning envelopes to be adjusted to the height of the flood elevation.

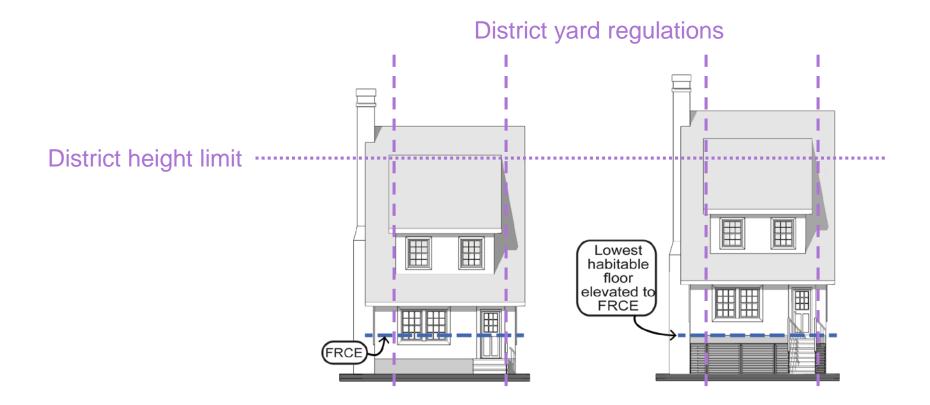






The 2013 Flood Text also allowed <u>existing 1+2 family homes</u> to be physically raised to the DFE.

• Even if these buildings were non-compliant, they were permitted to be raised regardless of height, yard, floor area, and other regulations.



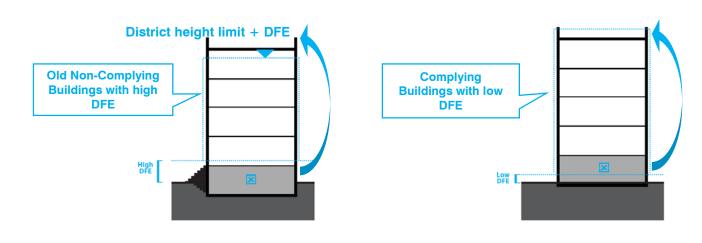




The 2013 Flood Text also allowed existing 1+2 family homes to be physically raised to the DFE.

ISSUE

- Doesn't apply to other building types (3 fam., MF, non-residential)
- Doesn't allow the bump-up to apply
- Doesn't allow elevation to any higher level (i.e., BFE+3)
- Doesn't provide a solution for non-raisable building typologies.

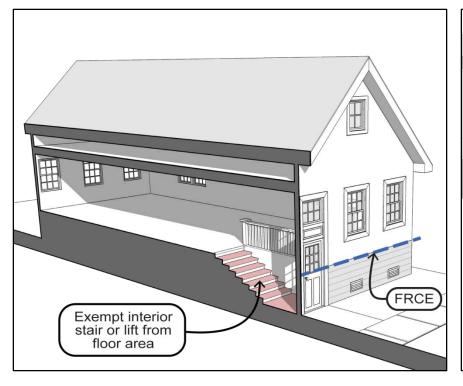


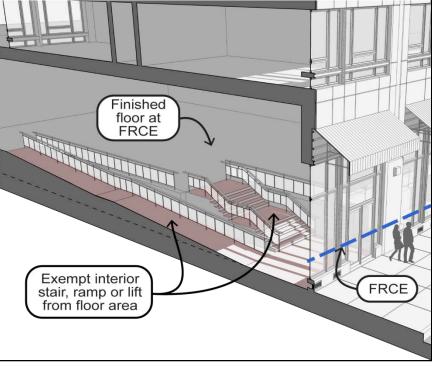




The 2013 Flood Text exempted resilient entryways from floor area

 Intended to ensure that compliance with new Appendix G requirements wouldn't constitute a penalty against development rights.

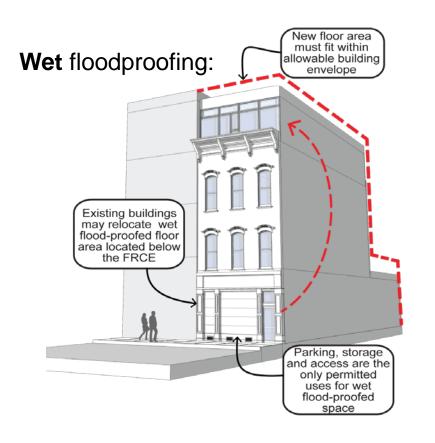


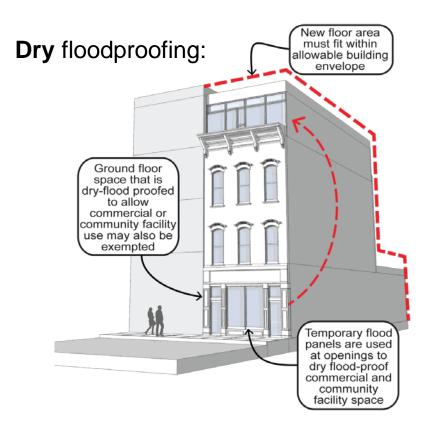




To incentivize the retrofitting of existing buildings, the 2013 Flood Text allowed any floodproofed space to be exempted from floor area

 This space could be relocated to a new addition atop the building, helping finance a retrofit project.









To incentivize the retrofitting of existing buildings, the 2013 Flood Text allowed any floodproofed space to be exempted from floor area

ISSUE

- Analysis of DOB permitting indicates this incentive likely has not been used since it was introduced.
- Restrictions accompanying this flexibility (only applies in certain districts, up to 10,000 sq. ft., C space cannot be replaced atop R, prohibition against creating new units, requirement to provide new parking spaces) may be too onerous.
- Only applies to existing buildings not new buildings.



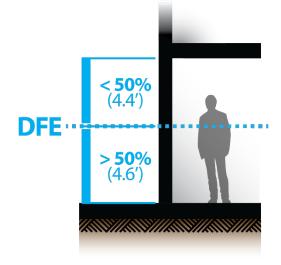


To incentivize the floodproofing of at-grade spaces the 2013 Flood Text redefined "cellar" to exempt at-grade stories in certain cases.

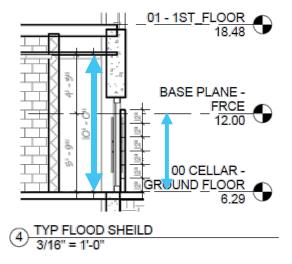
Allowed up to an additional 1 FAR in areas with an above-grade flood elevation of 4' or more.



Typical cellar space (Exempt from floor area)



Above-grade cellar space (In flood zones where DFE > 4.6')



Example of 'squished' retail (1809 Emmons Ave., BK)



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ISSUE

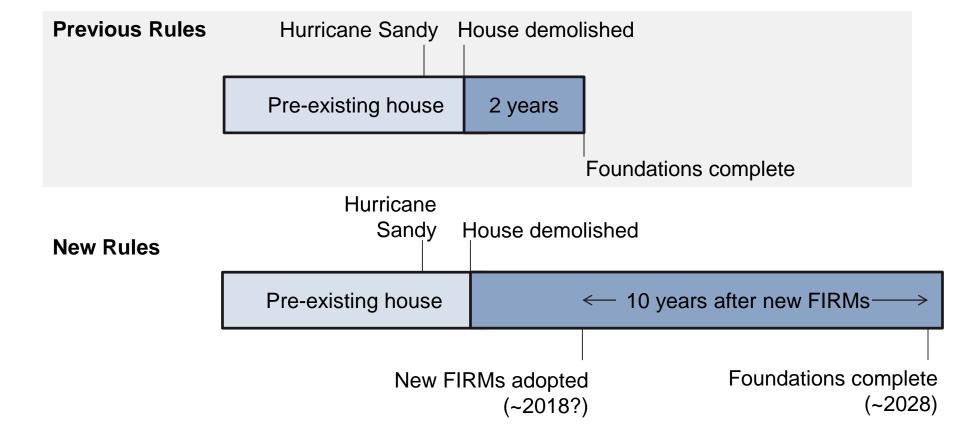
- Bad urban design outcomes due to "squishing" dark, low-ceilinged establishments.
- Causes lower-grade commercial stock, limits the types of retail tenants and services that can locate in the building, such as restaurants.
- Doesn't apply to [at least half] of the floodzone.
- Doesn't create a zoning incentive to prefer dry floodproofing implementations over wet floodproofing (active over passive).



Grandfathering

To facilitate the recovery of non-conforming and non-complying homes, the 2013 Flood Text gave greater relief to these homes

 Non-conforming uses were allowed to remain even if they surpassed the damage and destruction thresholds.





Grandfathering



To facilitate the recovery of non-conforming and non-complying homes, the 2013 Flood Text gave greater relief to these homes

ISSUE

- Over 500 residential buildings left out of 2013 relief:
 - **1. 300** 1+2 Family Homes
 - **2. 200** Multifamily Buildings
- Underlying Article V rules always allow 1+2 family homes to be rebuilt, regardless of level of damage, except R in C8/M
- FT I allowed any non-conforming building damaged >50% by Hurricane Sandy to rebuild, except R in C8/M





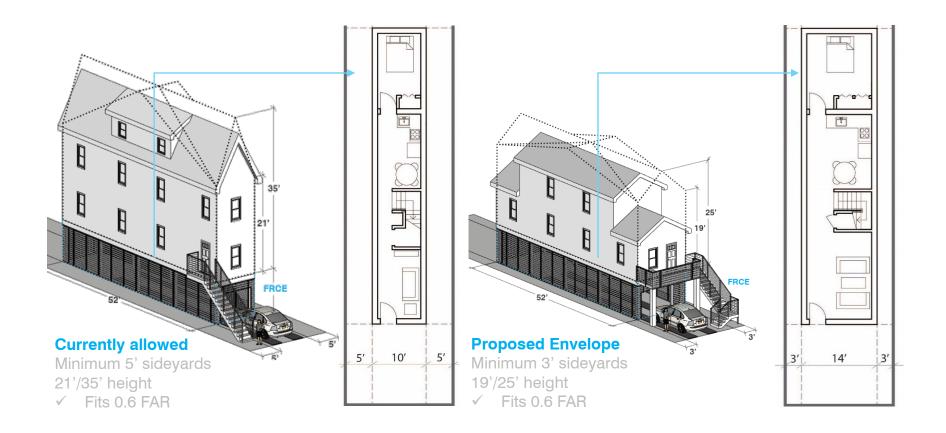




Cottage Envelope

To facilitate the reconstruction of the very small homes on small lots, the 2015 SRNR created a new contextual envelope.

Shorter, but has a more rational layout





Cottage Envelope



To facilitate the reconstruction of the very small homes on small lots, the 2015 SRNR created a new contextual envelope.

ISSUE

- Not available permanently (past 2022)
- Doesn't apply outside of "Neighborhood Recovery Areas"
- Doesn't prevent "candlesticks" on currently vacant lots

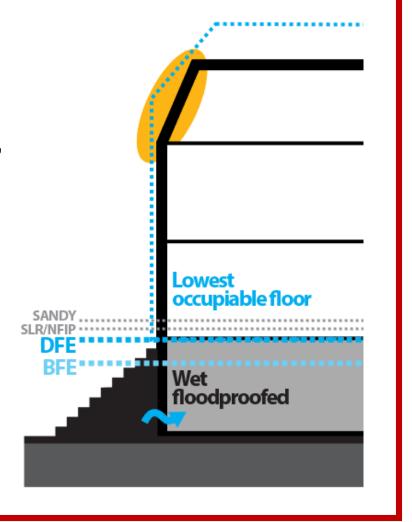


Future Flood Risk

ISSUE

The current flood risk doesn't provide zoning relief for accommodating future flood risk

- Zoning relief is "minimum necessary" to elevate <u>only to the DFE</u> – nothing higher
- Some building owners may want to take sea level rise, future flood heights, or more powerful storms (e.g., Hurricane Sandy) into account when building.
- Maximum NFIP premium reduction reached when house is BFE+2.5'





5. Future Risk – Flood Geography

ISSUE

The current flood text doesn't provide zoning relief to the future floodplain

 Today's 500YR floodplain is roughly equivalent to 2050 100YR, and includes Sandy inundation area.



Current PFIRM

Future projected flood zones



Citywide Resiliency Outreach





Advance Outreach

Scoping / ULURP

Advance outreach will include:

- **Identify key stakeholders**, including local and citywide organizations and elected officials.
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Flood risk in Staten Island



