

## **STATEN ISLAND & BRONX SPECIAL DISTRICTS UPDATE**

**City Planning Commission** 

**Review Session** 

May 6, 2019







- Project Summary, Process & Principles
- Background & Context
- Proposed Planning Framework and Zoning Rules
- Review Process
- CAPA Rules and Environmental Review
- Questions and Discussion



## **Issues with the Current Rules:**

Lack a clear, consistent and holistic approach to natural resource protection

2 One size fits all - small or large property treated the same

3 Lacks oversight on large natural resources

Based on **outdated ecological science** 

5 Burdensome for small property owners

6 Result in **unpredictable** outcomes







Why now?

## With over 40 years of experience working with the Special Districts rules, DCP has established best practices

## Technology improvements allow accurate mapping of natural features



**CODIFY & ENHANCE CURRENT PRACTICES** 



## **Planning Process**



## To create the proposal, DCP worked with stakeholders and conducted significant research since 2015

Staten Island Working Group Members (15 meetings):

- SI Community Board 1
- SI Community Board 2
- SI Community Board 3
- Serpentine Art and Nature Commons Inc.
- SI Taxpayers Association
- SI Borough President's Office
- SI Chapter- American Institute of Architects
- SI Building Industry Association
- NYC Parks Natural Resources Group
- Protectors of Pine Oak Woods
- Westervelt Civic Association
- Department of Buildings
- Professional Landscape Architects and Planners

Bronx Working Group Members (9 meetings):

- Riverdale Nature Preservancy
- College of Mount Saint Vincent
- Architect; LPC Commissioner
- Riverdale Sanitation Corporation
- Fieldston Property Owners Association
- Riverdale Country School
- Architect, FAIA; former LPC Commissioner
- Land Use Attorney
- Bronx Department of Buildings
- Bronx Borough President's Office
- Councilperson Cohen's Office
- Riverdale Community Coalition; Architect

#### Community Board 8 Working Group (6 meetings)



Ongoing interagency coordination: DOB, DPR, DEP, NAC, NYSDEC, DOT, FDNY Ongoing Community Board Outreach Open Houses and Civic Group Meetings



## **Project Principles**

- DCP and Working Groups developed the following principles to guide the proposal:
  - Strengthen and rationalize natural resource preservation
  - Strengthen and clarify regulations so that review by the City Planning Commission (CPC) focuses on sites that have a greater impact on natural resources and the public realm
  - Protect and enhance the natural resources and neighborhood character of the districts, with greater predictability of development outcomes
  - Create a homeowner-friendly regulatory environment with robust as-ofright rules for the development of homes on small lots that protect significant natural features
  - Ensure consistency of regulations amongst all three Special Districts











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## **Background: Existing Special Districts**



#### PROJECT AREA



In the **BX** and **SI** - Guide development to preserve natural features (aquatic, botanic, topographic & geologic)

- Updated in 2005
- SHPDIn SI Protect steep slopes, reduce hillside<br/>erosion, landslides and excessive runoff by<br/>preserving hillsides, trees and vegetation



SNAD

In **SI** - Coordinate development and infrastructure while protecting natural features (trees, topography, irreplaceable resources)

Special South Richmond Development District (SSRDD) | 1975



\*The regulations currently applicable to Fort Totten, Queens (NA-4) are independent from the rest of the Special Natural Area District and will remain unchanged in the proposal.

## **Background: Existing Land Use**



### STATEN ISLAND (% of Lots)

### **BRONX (% of Lots)**



Staten Island has a larger number of one- and twofamily homes, as well as **large commercial and manufacturing sites**  Bronx has a **larger concentration of institutions** (schools, retirement communities) within its SNAD district, representing the most significant projects





Protect and enhance important natural habitats and recreational assets by better guiding development in consideration of natural features

Buffers around aquatic resources





Low retaining walls





Topographic



Preservation of rock outcrops visible to the public realm

> Preservation of steep slopes



## **Background: best practices from current rules**



Enhance and protect the neighborhood character of the districts





## Background: Interconnected components of nature



Updated understanding of ecological science focuses on three lenses: **botanic**, **topographic** and **geologic**, and **aquatic** features. Each component plays an important role on its own, while being inter-connected and inter-dependent for their health and wellbeing.



Botanic Features: Canopy and Understory

NATURAL COMMUNITIES









#### WATERSHEDS & DRAINAGE

#### **SOIL & TOPOGRAPHY**

## **Background: Natural Capital**

Both boroughs have a rich diversity of protected natural areas, creating a connected habitat for local wildlife and migrating species







Leverage current mapping technology for enhanced understanding of ecological connectivity, and prioritize preservation of important features



#### Data sources:

- Ecological Covertype from the Natural Area Conservancy (2010 LiDAR)
- Hudson Raritan Estuary Comprehensive restoration Plan
- New York State Heritage Program
- USFWS National Wetlands Inventory
- DEC Freshwater Wetlands
- NYC Parks Forever Wild Program
- Hydrography data from aerial imagery





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## **Proposed Planning Framework and Zoning Rules**



#### **Designated Natural Resource**

(Public protected lands)

#### **Ecological areas**

**Base Protection Area** (Consistent requirements for preservation and development)

#### **Escarpment Area**

(Protects geologic and topographic features)

#### **Resource Adjacent Area**

(Protects the designated natural resources)



#### Natural Resources:

- Aquatic
- Rock Outcrops
- Steep Slopes
- Erratic Boulders
- Botanic .

**BASE PROTECTION AREA** 





**RESOURCE ADJACENT AREA** 

Zoning controls to manage natural features:

- Lot Coverage
- Hard Surface Area •
- Yards and open space
- *Tree requirements*
- Planting areas (gardens)
- Building height

## Zoning to facilitate the project – Zoning map & Zoning text amendments





\*The regulations currently applicable to Fort Totten, Queens (NA-4) are independent from the rest of the Special Natural Area District and will remain unchanged in the proposal.





## **Overarching principles for regulations**

**Robust rules** with embedded **design flexibility** to respond to varied site conditions



Requirements produce a **predictable outcome** 

3

Rules outline hierarchy of protection of natural resources, as needed







## **Balance preservation and development: Trees**

#### EXISTING

Tree Requirements: 1 tree per 1,000 sf **OR** 51% of existing tree credits (whichever is greater)

- Each tree is regulated regardless of ecological importance, size or age
- Tree rules create burden for small improvements and do not provide incentive to protect old growth trees
- Trees may be removed within 15 feet (in SNAD/HS) or 8 feet (in SSRDD) of buildings and within required parking or driveways. Trees removal beyond these areas requires CPC authorization



Tree Requirements: 1 tree per 1,000 sf **AND** 3 tree credits for every 750 sf Lower requirements for commercial uses and large sites

- Incentivize native 'old growth' trees and tree groupings to create micro habitats
- Preserve trees in rear 15 feet to create connective corridors Plant trees in the front yard to enhance tree-lined neighborhoods
- Simplify process for tree removal



<u>Improved outcomes</u>: Give greater value to existing (preserved) trees, support native species and trees planted in groups, require more trees to achieve clearer and more consistent outcomes across all Special Districts





## **Balance preservation and development: Ground-cover planting**



EXISTING	PROPOSED
No clear requirements in SNAD and SHPD	Biodiversity requirements: 6 points for Resource Adjacent Area (RAA),
No requirements in SSRDD	4 points for all others in R-district and 2 points for all other uses

- Inconsistent rules among Special Districts
- Every square foot of removed vegetation to be replaced in SNAD
- No vegetation can be removed except within 15' of building and to allow driveways, private roads or required parking. Very strict requirement that can be modified by CPC with no parameters



- Consistent approach to groundcover planting that prioritizes sensitive areas with more planting – 'biodiversity points'
- Provide options :
  - Landscape Buffer RAA requires 10' at rear and 8' on side for new developments
  - Wildlife Garden *diverse species of shrubs and groundcover*
  - Basic Garden
  - Green Roof



Biodiversity requirement (grasses, shrubs, etc.)

<u>Improved outcomes</u>: Clear planting requirements that will enhance the biodiversity and ecological health of the community.



## Balance preservation and development: Rock outcrops and erratic boulders

EXISTING	PROPOSED
No parameters on amount of disturbance	No disturbance of rock outcrop in front yard Limit rock outcrop disturbance to 50% in front and rear portions of lot Allow erratic boulders to be moved to the front

۲

authorization

- Rock outcrops help create neighborhood character in the BX SNAD
- Existing regulations prohibit disturbance of rock outcrops, but allow disturbance through CPC authorization, however, there is no limit on the amount of encroachment





Stipulate the maximum extent of disturbance for predictability

Any disturbance greater than 400 SF will require CPC

<u>Improved outcomes</u>: Less disturbance of visible outcrops; preservation of neighborhood character



## **Balance preservation and development: Aquatic resources**











Sources:

U.S. Army Corps of Engineers, U.S. Fish & Wildlife Service NYS Department of Environmental Conservation NYC Department of Parks NYC Department of City Planning Natural Area Conservancy



## **Balance preservation and development: Aquatic resources**

#### EXISTING

Only aquatic resources in SNAD are directly regulated, but all districts have goals to protect these resources

 No consistent wetland regulatory protections among Special District zoning rules, NY State Department of Environmental Department of Conservation (DEC) permits and the Army Corps wetland regulations PROPOSED

Specific lot coverage, hard surface and planted buffer rules within 100' Exclude wetland and planted buffer from minimum lot area

- Establish consistent regulations across all three Special Districts based on DCP/DEC best practices
- Allow flexibility in site planning to ensure a minimum buffer between sensitive wetland areas and proposed development, and encourage clustering to maintain development potential of the site
- Large sites (greater than 1 acre) would require protection of non-DEC freshwater wetlands



<u>Improved outcomes</u>: Clear and consistent wetland protections, greater site planning flexibility, and greater preservation of wetland features with adequate space for both planted areas and proposed development.



## Balance preservation and development: Steep slopes & escarpment



#### EXISTING

In SNAD and HS: Average percent of slope excludes steep slopes > 25%. Grading rules only apply to Tier II sites. No retaining wall height limits

- No lot coverage rules for sites with less than 10% slope
- For steep sites, 12.5% lot coverage for steep slope
- No standards to limit steep slope disturbance or the maximum lot coverage by CPC modification

#### PROPOSED

- All slope categories considered to determine lot coverage. Grading rules apply to all sites. Retaining wall maximum heights established.
  - Comprehensive rules to reduce hillside erosion, and steep slope encroachment, and improve storm water management



<u>Improved outcomes</u>: Updated rules will ensure consistent and predictable outcomes, prioritizing the preservation of steep slopes and ensuring development in the Escarpment Area is appropriate and compatible with these important resources



**Lot coverage** is the area of the site covered by a building.

It affects the amount of site disturbance and natural features, including slopes, plantings, and open space.

#### EXISTING

SNAD and SHPD: Maximum lot coverage regulated by average percent of slope. SRD: regulated by open space ratio or yards

- Lot coverage is too uniform, doesn't consider context (e.g., is this site part of larger steep slope? How steep is the slope?)
- No clear guidelines for CPC on appropriate lot coverage when modification is sought by applicants, which results in unpredictable outcomes
- No lot coverage regulations for institutions or community facility (CF) uses

R1, R2 & R3 districts: lot coverage based on ecological area & slope (ranging from 12.5% to 35%) 25% lot coverage for large institutions and CF uses

**PROPOSED** 

- Provide clear parameters on lot coverage for predictable outcomes on sites with topographic features and botanic environments
  - codify best practices
  - maximum lot coverage for CF
- Incentivize preservation of steep slopes by providing flexible lot coverage if building is located on flatter portion of site
- Include accessory buildings towards lot coverage

<u>Improved outcomes</u>: Allows for greater site planning flexibility to preserve natural features and guarantees adequate space for planted areas.



## Balance preservation and development: Hard surface area



Hard surface areas are all areas of the site covered by a building and any hard surfaces. It affects the amount of site disturbance and runoff, and affects natural features, including slopes and plantings.

EXISTING

No rules for regulating hard surface area

- In SNAD and SHPD, hard surface area is decided by CPC review and best practices
- No regulations apply in SSRDD where many natural resources exist





<u>Improved outcomes</u>: Provides additional site controls beyond the building footprint, creates open space, supports better storm-water management, and guarantees adequate space for planted areas.

#### PROPOSED

Hard surface area max  $\rightarrow$  lot coverage and intensity of use R1-R3 max varies from 40% to 65%; other uses max ranges 75%-90%

- Establish limits to hard surface area as a percent of lot area to facilitate permeability that contributes to the ecosystem health
- Hard surface areas would include building footprints, driveways and other paved areas such as a patio, deck or pool





## **Balance preservation and development: Zoning Lot Subdivisions**



EXISTING	PROPOSED
Minimum lot area excludes private road in SHPD Goals consider balance of future development and preservation	Increase minimum lot area for steep slope sites Minimum lot area excludes wetland + buffer Minimum lot area excludes private road in SI LDGMA
<ul> <li>Inconsistent rules for minimum lot area for sites with steep slopes in current SNAD and SHPD</li> </ul>	<ul> <li>Zoning lot subdivisions will be as-of-right on small sites and governed by clear rules for minimum lot area and protection of</li> </ul>

- Existing framework requires all zoning lot subdivisions to be certified by the CPC and does not provide sufficient oversight for sites with sensitive features such as wetlands or habitat
- governed by clear rules for minimum lot area and protection of natural features
- Subdivisions for the following "plan review sites" will require discretionary review that results in appropriate lot layout to protect natural features and have well-designed roads.
   Proposed findings would have clear guidelines for CPC
  - Sites larger than 1 acre
  - Sites that create 4 or more lots in Resource Adjacent and Escarpment areas
  - Sites in a Historic District
  - Sites with private roads

<u>Improved outcomes</u>: Minimum lot area requirements for sites with steep slopes and aquatic features provide clear expectations for appropriate development on sensitive sites and avoids the creation of unbuildable lots.



## Large and sensitive sites involve more choices to be made for preservation and contribute in a more significant way to the neighborhood character

**Focusing public review on Plan Review Sites** 



## **Proposed Planning Framework**





### SITE ASSESSMENT

Wetland habitat on Private Lots (Connects/enhances the core habitat)

Habitat on Private Lots (Connects/enhances the core habitat)

## Focusing public review on Plan Review Sites

- Sites larger than 1 acre
- Sites that create 4 or more lots or 8 or more dwelling units in Resource Adjacent and Escarpment areas
- Sites in a Historic District
- Sites with Private Roads



## Balance preservation and development: Habitat preservation

A **"habitat area"** is an area that includes forests, wetlands, grasslands, shrublands or other natural cover that provides shelter, resources and opportunities for reproduction for wildlife

EXISTING	PROPOSED
No preservation required. No thresholds for CPC modification.	Require habitat preservation on sites ≥ 1 acre with existing habitat: up to 25% of a residential & commercial site or 35% of CF site

- Inconsistent preservation outcomes that are based on site by site negotiations through CPC review
- Habitat areas of ¼ acre or more will be pre-identified and would require a site assessment
- Creates ecological connectivity with large protected areas and create shared recreation opportunities for generations to come

Applicability of proposed habitat preservation area requirements (lots > 1 acre)

BRONX ~80 lots

STATEN ISLAND ~250 lots





## Balance preservation and development: Habitat preservation



#### PROPOSED

Require habitat preservation on sites ≥ 1 acre with existing habitat: up to 25% of a residential & commercial site or 35% of CF site

Clustering of development allows to maintain development potential



includes old growth trees)



## Balance preservation and development: Long-term planning on large sites

#### PROPOSED

- Encourage long-term planning to create a holistic development plan
- Require CPC review for properties that have greater opportunities for natural resource preservation and impact the public realm





<u>Improved outcomes</u>: Strengthen and clarify the process for development on large sites. Encourage long-term/streamlined campus planning to get upfront community input, and a holistic single environmental review for the institution





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## **Review Process**



#### EXISTING

CPC review is **site by site** and feature by feature **Lack of consistent rules** for extent of modification

Same level of review for small and large sites

Lack of oversight for large sites in South Richmond



**STATEN ISLAND:** 85 percent of applications in past five years were one or two family homes

	SHPD	SNAD	SSRDD
1-2 Family	<b>64%</b> (54)	<b>82%</b> (150)	<b>17%</b> (24)
<u>&gt;2 Family</u> Non-Residential	<b>36%</b> (31)	<b>18</b> (33)	<b>83%</b> (119)

**BRONX:** 70 percent of applications (5 out 7 yearly) were one or two family homes

	SNAD	
1-2 Family	<b>69%</b> (24)	
<u>&gt;2 Family</u> Non-Residential	<b>31%</b> (11)	



## **Review Process**



#### EXISTING

CPC review is **site by site** and feature by feature **Lack of consistent rules** for extent of modification Same **level of review** for small and large sites **Lack of oversight** for large sites in South Richmond



## 54 SPECIAL DISTRICTS ZONING ACTIONS \* May require EAS SHPD SNAD

#### PROPOSED

Holistic: Broader ecological strategy

**Comprehensive:** Prioritize review of large & sensitive sites

Clear consistent rules: As-of-right regulations for small sites & and

streamlined CPC review

Small Lots		Large Lots (> 1 acre)
As-of-Right Development (no CPC review)		CPC review required
AND AND	Escarpment/ Resource Adjacent (≥4 lots or	
	buildings) <b>Historic District</b> new	
a leses	construction Development with	
and the second se	Private Road	
	<i>Rock outcrops</i> with >400 sf disturbance	

**PLAN REVIEW SITES** 

<u>Improved outcomes</u>: Homeowner friendly regulations for most small properties that provide clear standards to preserve natural features. Large/sensitive sites will require CPC review.



# How would a typical single-family home be affected?

Example: Enlargement in R1-2 District



## Example: How would a typical single-family home be affected?

#### **Enlargement in R1-2, Base Protection Area, SNAD**

#### ASSESS EXISTING CONDITIONS

- Zoning Lot Area: 11,000 sf
- FAR: 0.18 (0.5 Max)
- Lot Coverage: 998 sf 9%
- Garage = 400 sf (will be counted toward lot coverage)

Existing: Would require a CPC discretionary review for enlargement

#### Proposed:

- Over 1 acre? No
- Private Road? No
- New Building in Historic District? No

Site meets criteria for As-of-Right development

You can submit drawings directly to DOB as part of its application requirements rather, than filing through DCP and then DOB





## Example: How would a typical single-family home be affected?

Base Protection Area





#### **ASSESS PROPOSAL**

- Lot Coverage permitted = 25% | Lot Coverage proposed = 17.3% ✓
- Hard surface areas include pathway, driveway, decks, patio and building footprint = ~ 30% ✓
- Rock outcrop limited disturbance allowed for the enlargement ☑
- Trees & Planting on site

12 trees on site - 1 proposed to be removed | 41 tree credits on site (after tree removed)

1 tree per 1,000 sf of lot area: 11,000 sf / 1,000 sf = **11 trees min.** 

(NEW) 3 tree credits per 750 sf of lot area: (11,000 sf / 750) x 3 = 44 tree credits min

☑ 41 tree credits on site < 44 tree credits required

**Plant two new trees with enlargement** [Current rules would require no additional trees]

4 biodiversity points will be required

✓ Owners opts to expand existing garden to 1,100 square feet to achieve 4 biodiversity points [Current rules would require no garden]





# How would a large commercial development be affected?

Example: New development in South Richmond



## Example: How would a large commercial development be affected?

#### New Development, M1-1 District, Base Protection Area, SRD

#### ASSESS EXISTING CONDITIONS

#### PROCESS

- Zoning Lot Area: 234,800 sf
- Vacant land
- Site covered with 60% Habitat
- Existing rules: Would require a CPC review for
  - commercial development for 'Parking over 30 spaces'
- Proposed: Would require a CPC review since the site is over an acre

#### **APPLICATION REVIEW**

- ☑ Online map flags this property to do site assessment
- ☑ Field Assessment required to evaluate habitat and set

**Base Protection Area** 

- aside 25% preservation
- ☑ Parking lot landscaping count toward tree and planting

GENERAL RETAIL 51,500 SF PARKING RATE : 1/300

SPACES REQ .: 172

PH111119 1111119

FOOD STORE







TOTAL PARKING SPACES REQ.: 222 TOTAL PARKING SPACES PROVIDED: 224

PLAZA 5,500 SF



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## City Administrative Procedure Act (CAPA) Rules to support the update

- Online map identifying potential locations of habitat areas
- Site Assessment Protocol (includes non-DEC wetland delineation)
- Environmental Professional fee for Site Assessment verification

NEW VORK



HABITAT MAP EXAMPLE

- An EIS was conducted with DCP acting on behalf of the CPC as Lead Agency. The Notice of Completion for the DEIS was issued on May 3, 2019.
- The DEIS identifies potential significant adverse impacts with respect to:
  - Historic and Cultural Resources (archeological)
  - Hazardous Materials
- No other significant adverse impacts were identified.
- Mitigation measures are identified in the DEIS and will be explored further in the FEIS.



## Summary:

Proposed update to the Special Districts in Staten Island and the Bronx would result in a modernized and streamlined approach to balance natural resource preservation and neighborhood development.



Requested Actions:

- Zoning Map Amendment to establish the Special Natural Resources District within the same boundaries of the SNAD, SHPD, and SSRDD in SI and the BX
- Zoning Text Amendment to establish a Special District with consistent approach to natural resource preservation, while retaining area-specific rules in subdistricts

