



Parks

Greencroft Playground

Located near Redgrave Avenue and Greencroft Avenue,
in the Borough of Richmond.

Public Design Commission Conceptual Review

Submitted: April 15, 2022

For Review: May 16, 2022

Jennifer Lauzon, NYC Parks

Total Budget: \$8.4m

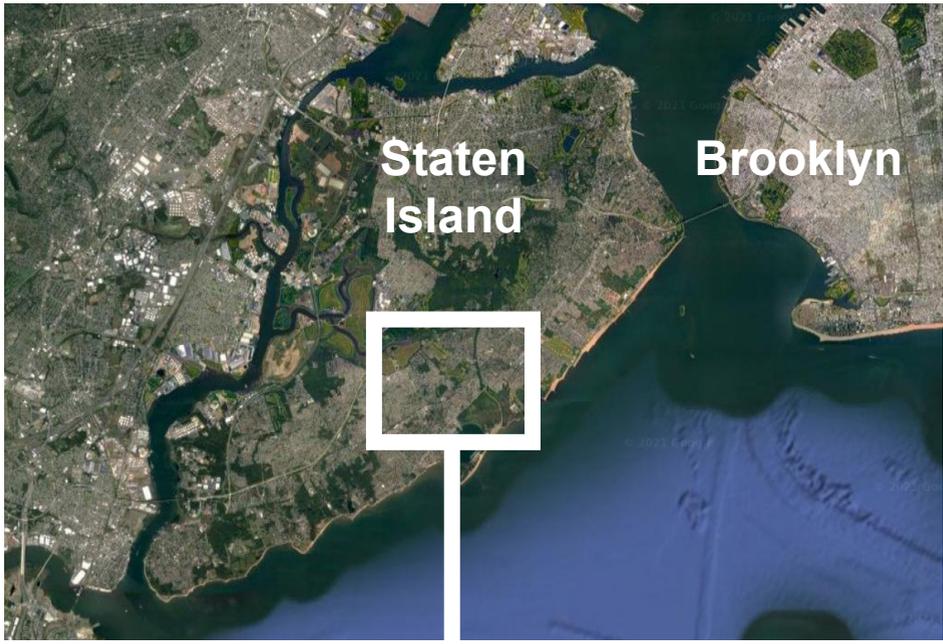
City Council District 51, Joseph C. Borelli - FY 22

Project Size: ~1.9 ac

Goals

- Upgrade active play capacity for the park and neighborhood
- Improve accessibility, circulation, and sight lines in the park
- Enhance and add to the environmental amenities of the site, including green infrastructure
- Reduce flooding in low-lying areas





City 2 MI



Neighborhood 500 FT



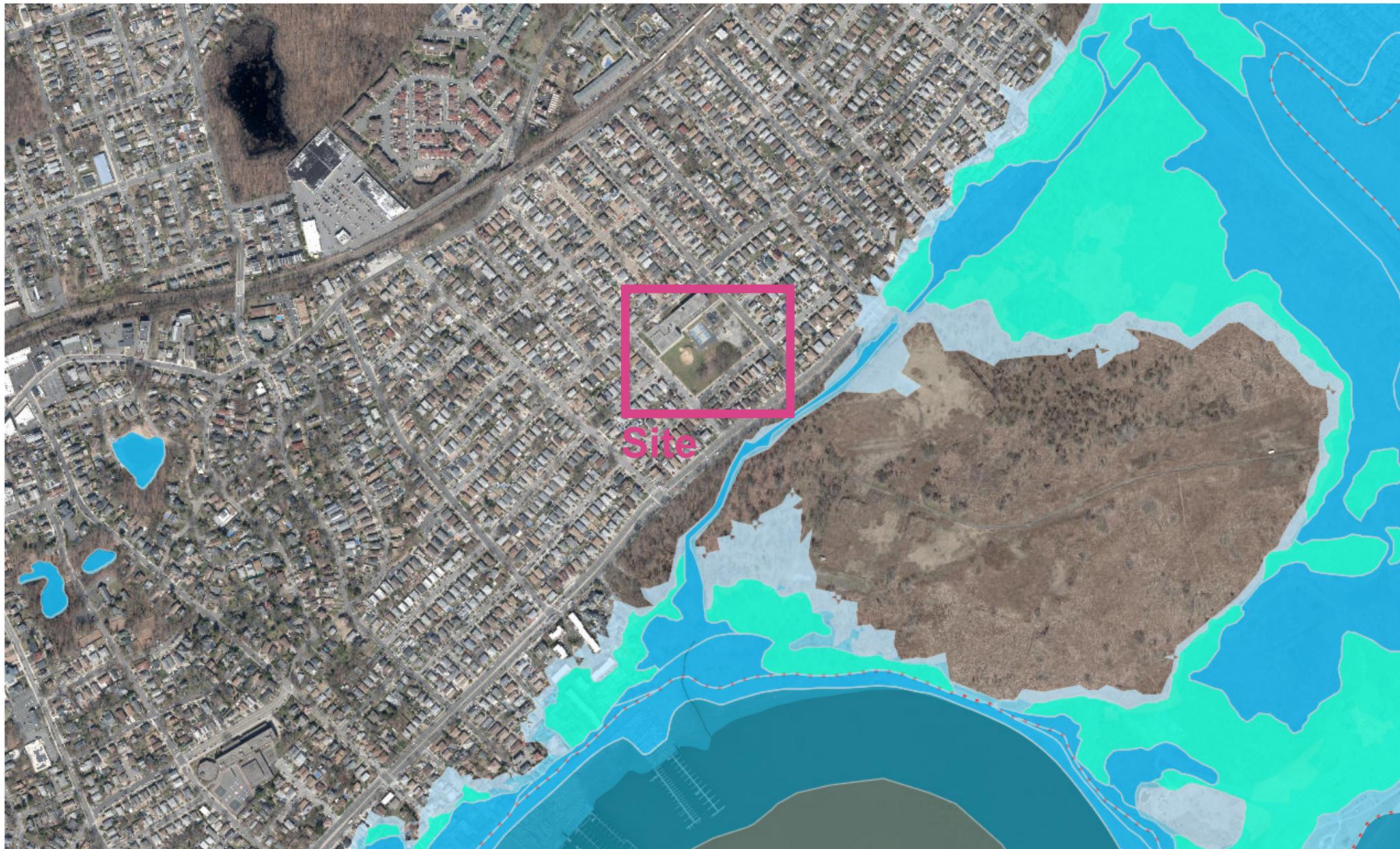
Site 100 FT



NYC Parks

Greencroft Playground | Project Location





Source: <http://www.nyc.gov/floodhazardmapper>

Flood Hazard Zones

2015 Preliminary Flood Insurance Rate Map

- V Zone (100-year floodplain subject to wave action)**
Areas along coasts subject to inundation by the 1% annual chance flood event with additional hazards
- A Zone (100-year floodplain)**
Areas subject to inundation by the 1% annual chance flood event.
- Shaded X Zone (500-year floodplain)**
Areas within the 0.2% annual chance floodplain, areas of 1% annual chance flooding where average depths are less than 1 foot, areas of 1% annual chance flooding where the contributing drainage area is less than 1 square mile, and areas protected from the 1% annual chance flood by a levee.
- Limit of Moderate Wave Action (LiMWA)**
The inland limit of the area expected to receive 1.5ft or greater breaking waves during the 1% annual chance flood event. Data from 2015 PFIRMs.

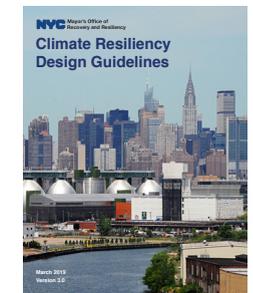
Future Floodplain 2050s

- Future 1% Annual Chance Floodplain (100-year)**
- Future 0.2% Annual Chance Floodplain (500-year)**

Resources (Links):



NYC Parks: Design and Planning for Flood Resiliency

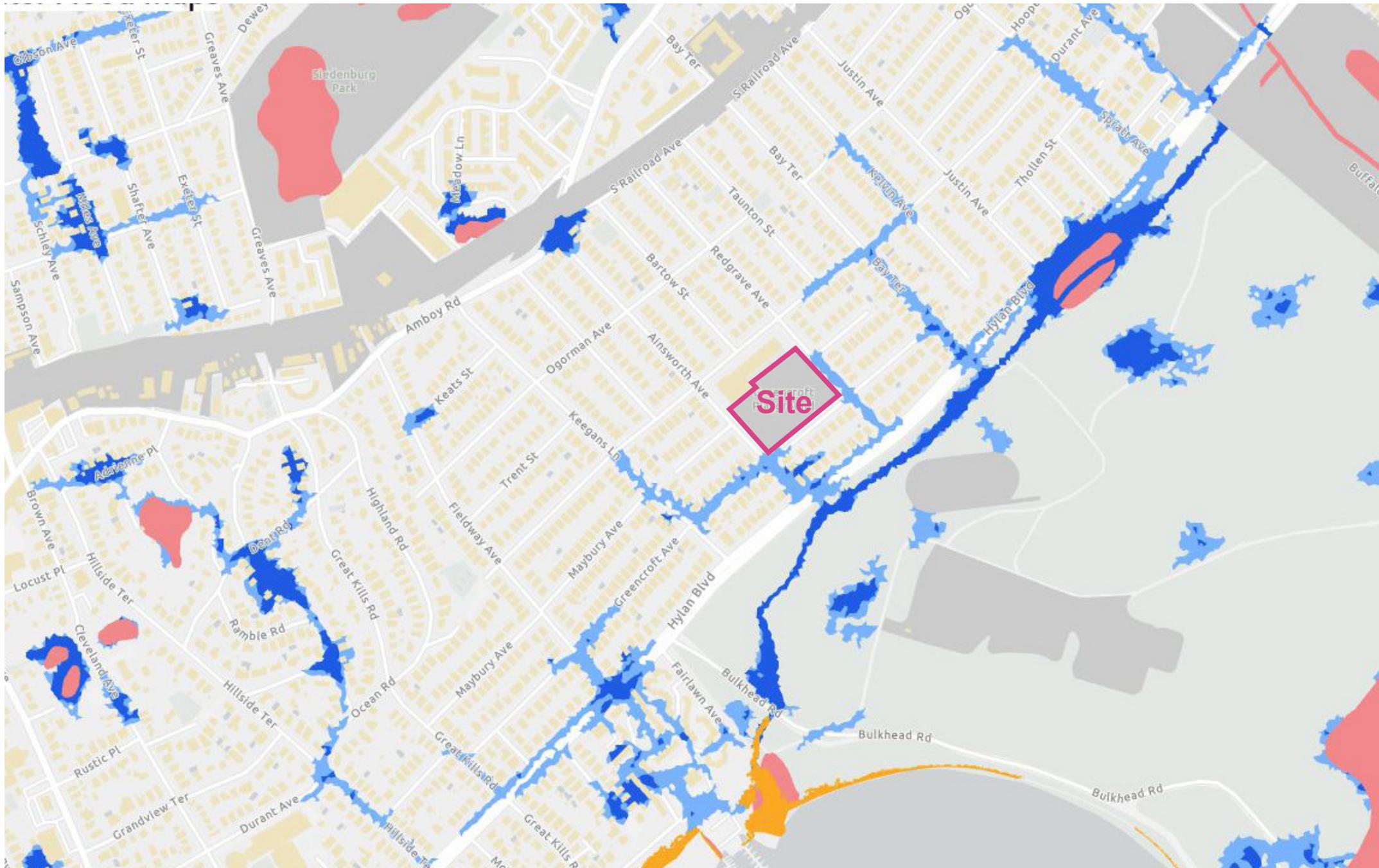


NYC MOCR: Climate Resiliency Design Guidelines (v4.0)



NYC Parks





NYC Stormwater Flood Maps (Moderate Flooding)

- Area not included in analysis
- Future High Tides 2050
- National Wetlands Inventory
- Deep and Contiguous Flooding (1ft and greater)
- Nuisance Flooding (greater or equal to 4 in and less than 1 ft)

This map:

- Reflects roughly two inches of rain falling in one hour (also referred to as the 10-year storm, with approximately 10 percent chance of occurrence in any given year)
- Shows a moderate rainstorm that City infrastructure was not designed to handle.
- Reflects 2.5 feet of sea level rise, which is a high estimate for the 2050s.
- Includes impacts of potential blocked storm drains and outfalls from sea level rise.

Flooding from a storm like this would temporarily disrupt transportation and enter buildings and basements, causing minor damages to contents and surfaces.



NYC Parks

Greencroft Playground | Flood Risk (Stormwater)

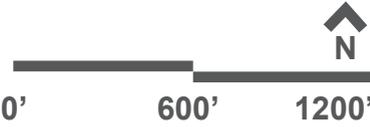
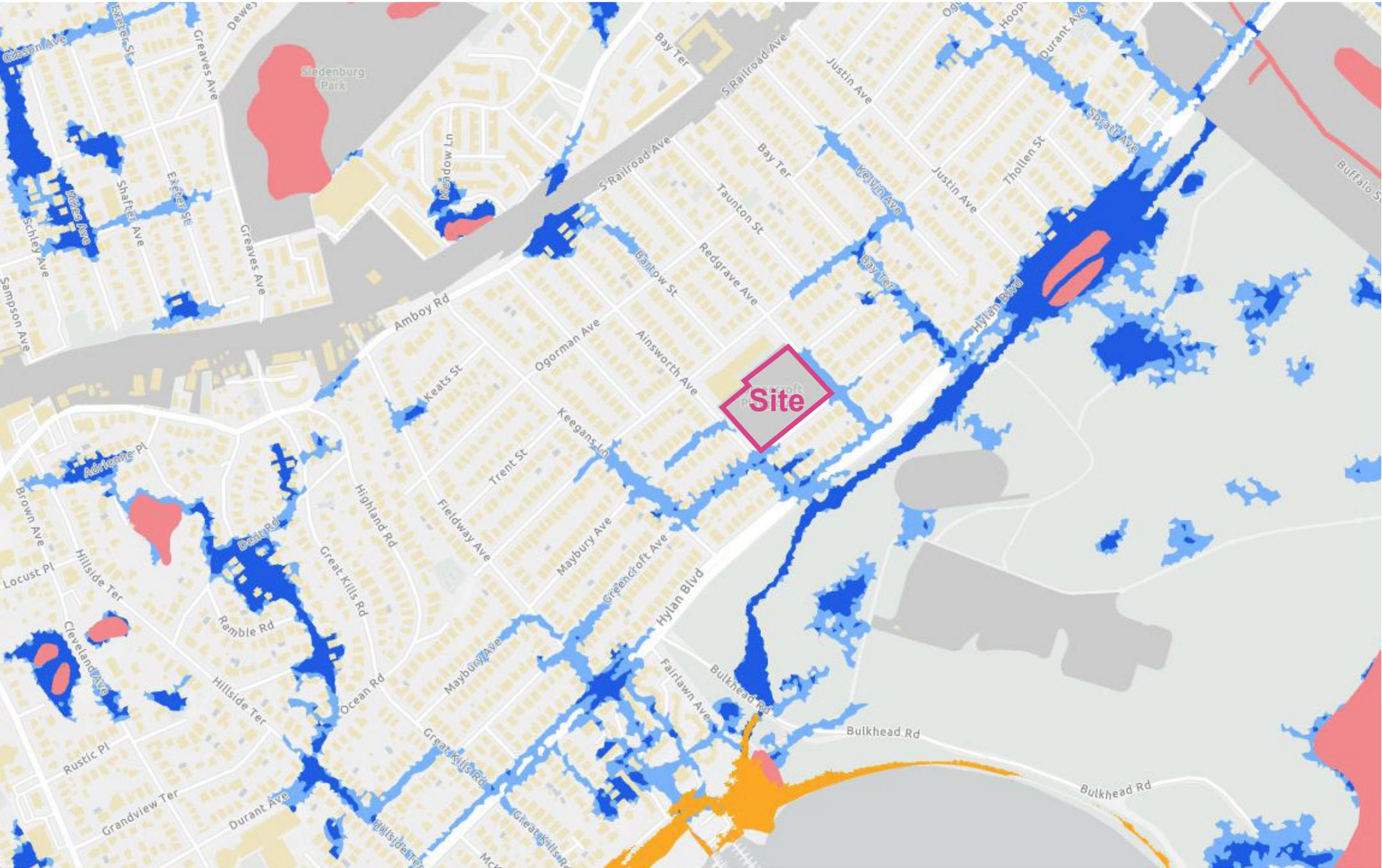


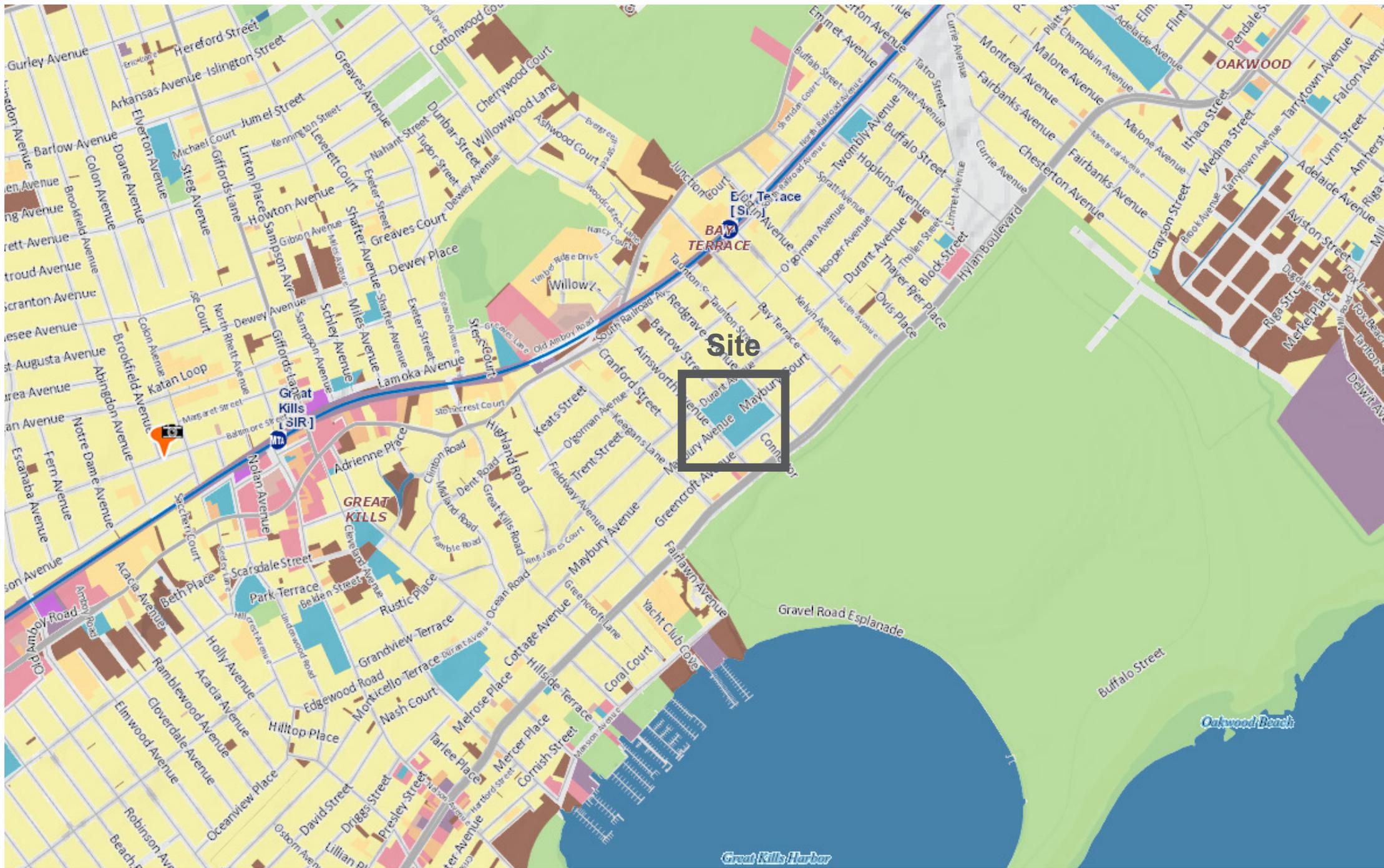
NYC Stormwater Flood Maps (Extreme Flooding)

- Area not included in analysis
- Future High Tides 2080
- National Wetlands Inventory
- Deep and Contiguous Flooding (1ft and greater)
- Nuisance Flooding (greater or equal to 4 in and less than 1 ft)

- This map:
- Reflects roughly 3.5 inches of rain falling in one hour (also referred to as the 100 year storm, with approximately 1 percent chance of occurrence in any given year).
 - Shows an extreme rainstorm that City infrastructure was not designed to handle.
 - Reflects 4.8 feet of sea level rise, which is a high estimate for the 2080s.
 - Includes impacts of potential blocked storm drains and outfalls from sea level rise.

- Flooding from a storm like this would:
- Cause widespread damage and disruption to both private and public property.
 - Disrupt roads, subways, regional rail, and potentially power/communication networks.
 - Cause flooding across coastal neighborhoods due to sea level rise impacts.





Land Use Categories

- 1 And 2 Family Residential
- Multi-Family Residential
- Mixed Use
- Open Space And Outdoor Recreation
- Commercial
- Institutional
- Industrial
- Parking
- Transportation / Utilities
- Vacant Lots

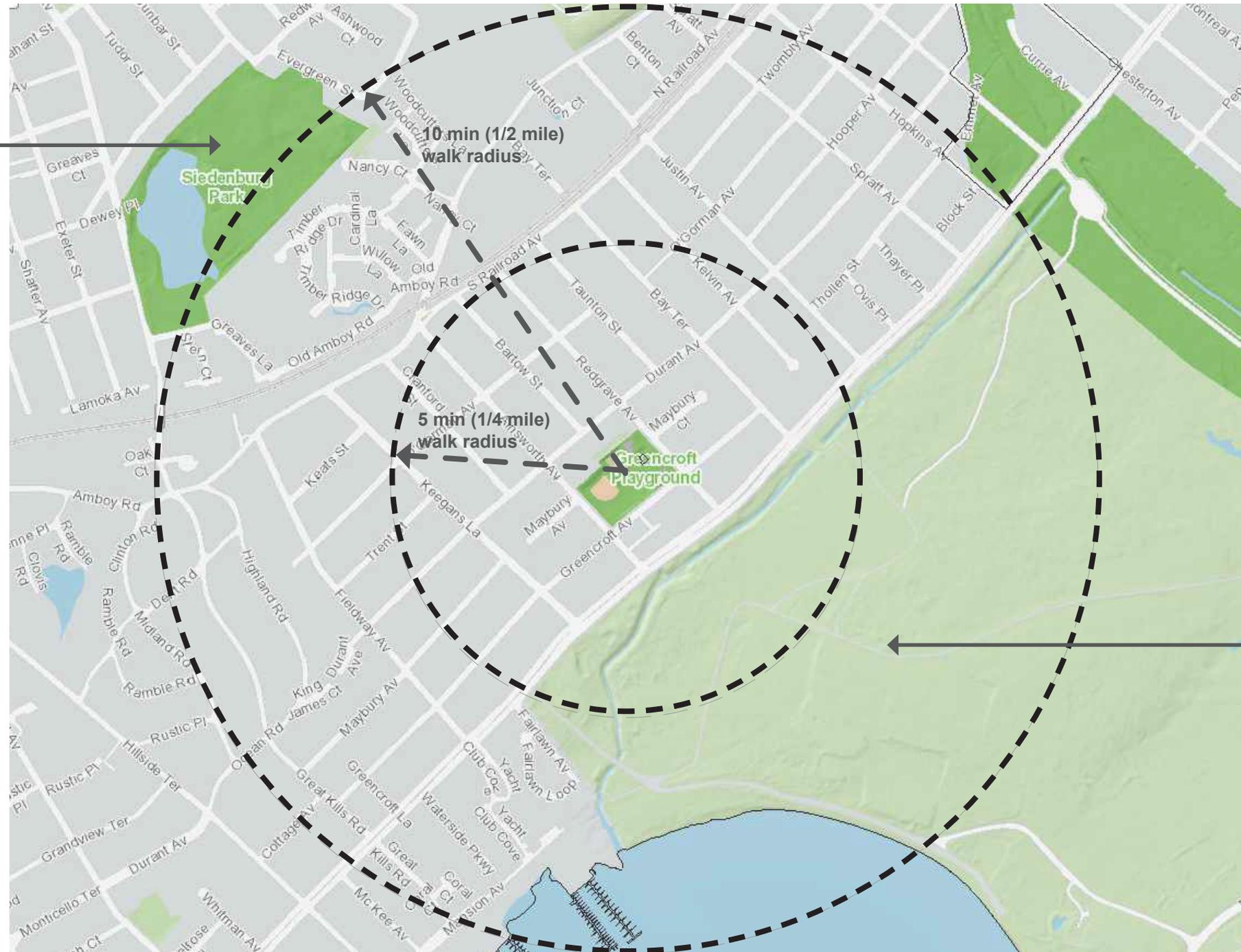


NYC Parks

Greencroft Playground | Surrounding Land Use



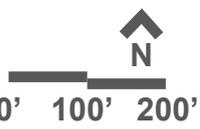
Siedenburg Park
Natural Areas

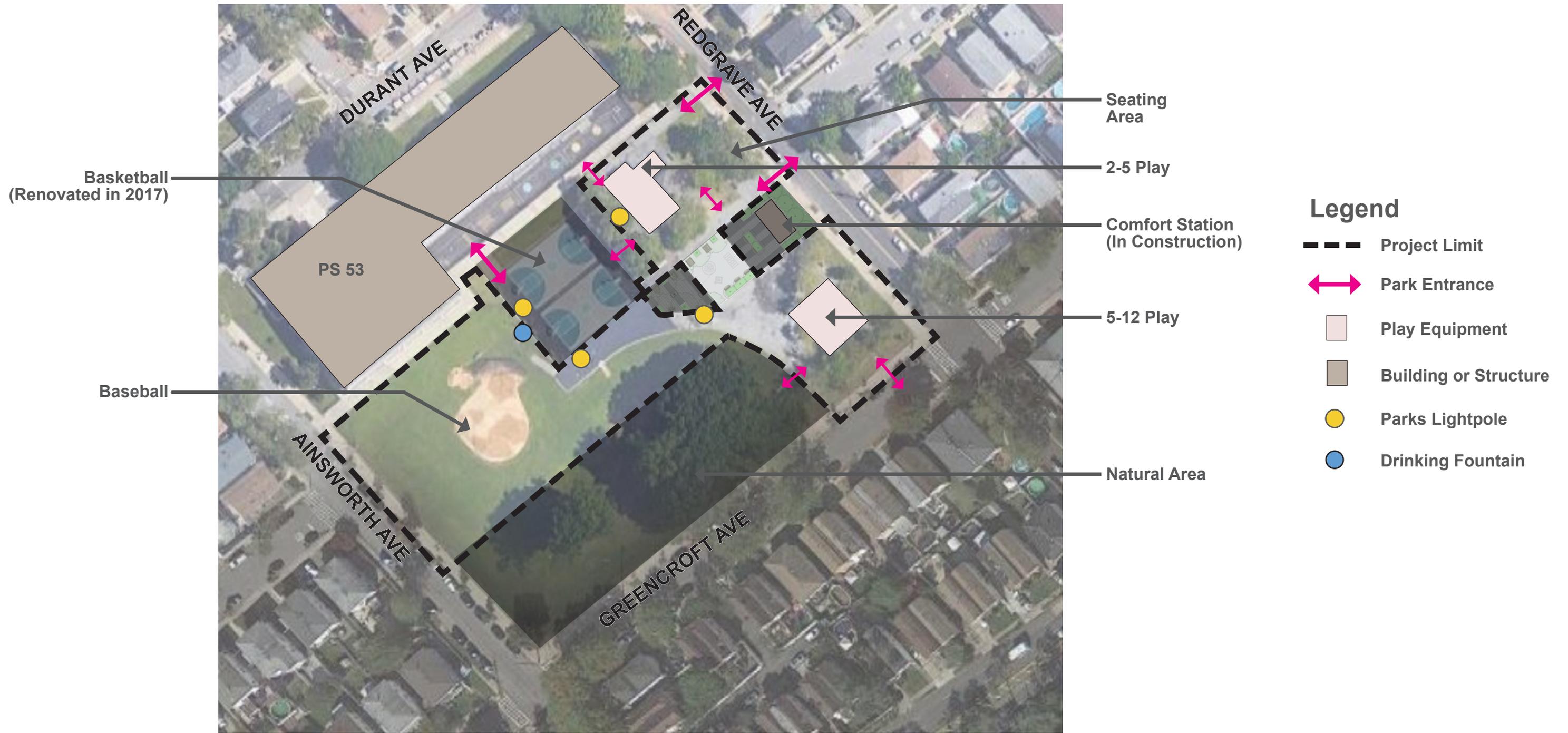


Great Kills Park
(Area closed)

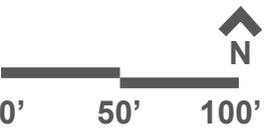


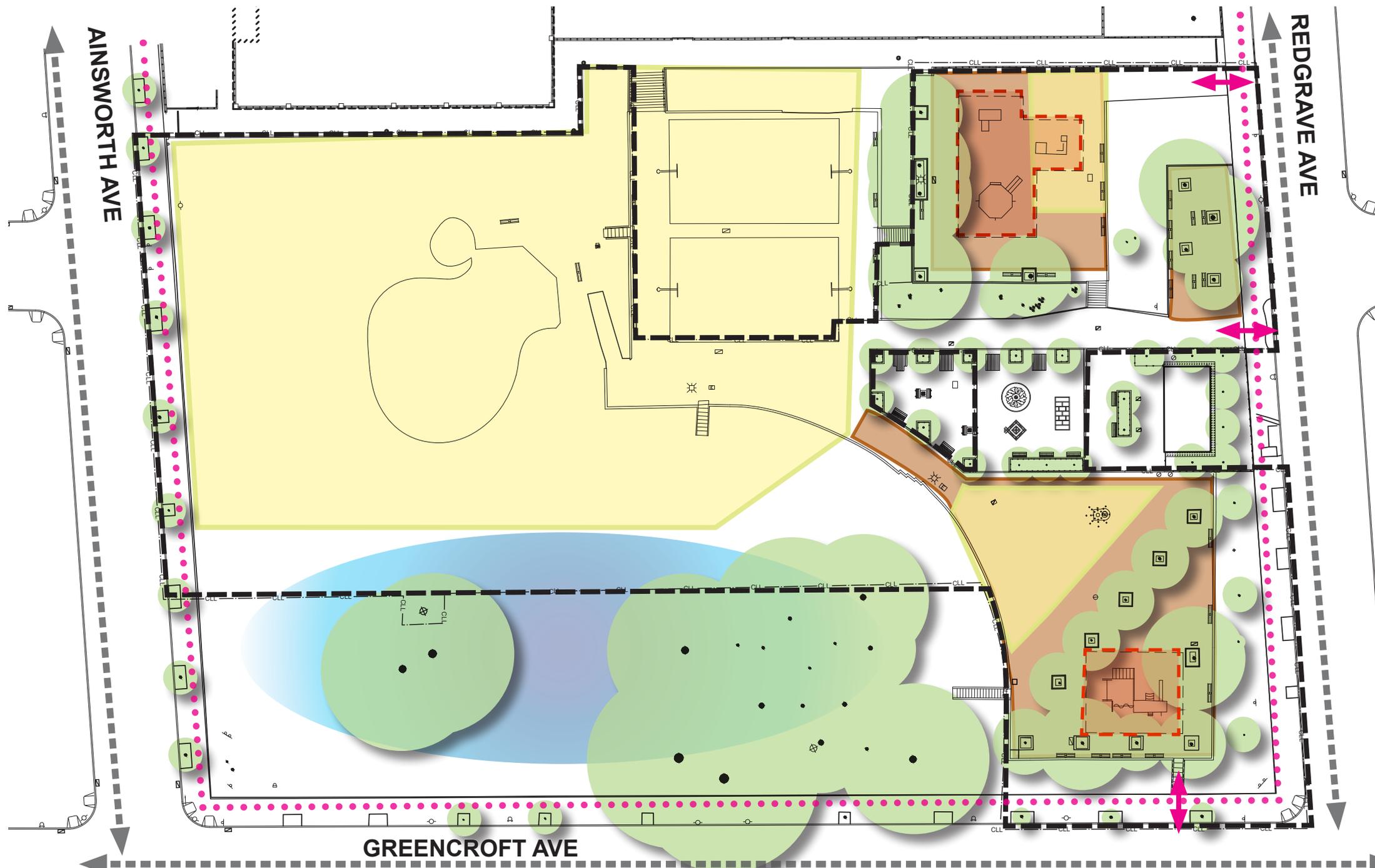
Greencroft Playground | Neighborhood Context





Greencroft Playground | Existing Conditions

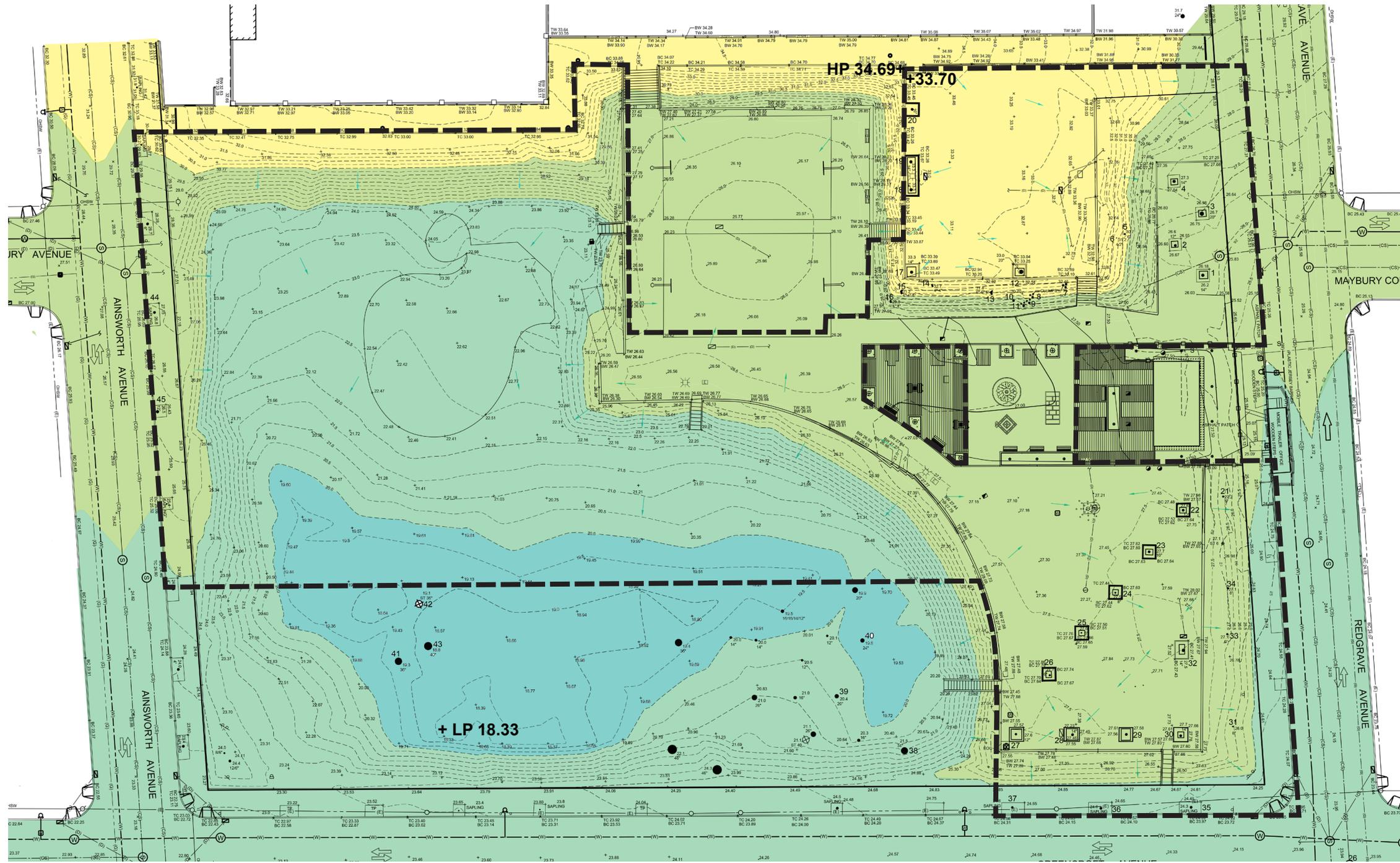




- ### Legend
- Project Limit
 - Park Entrance
 - Pedestrian Traffic
 - Vehicular Traffic
 - Outdated play equipment & safety surface
 - Damaged asphalt
 - Open sunny play area
 - Drainage Problem
 - Tree Canopy/Shade



Greencroft Playground | Site Analysis

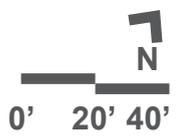


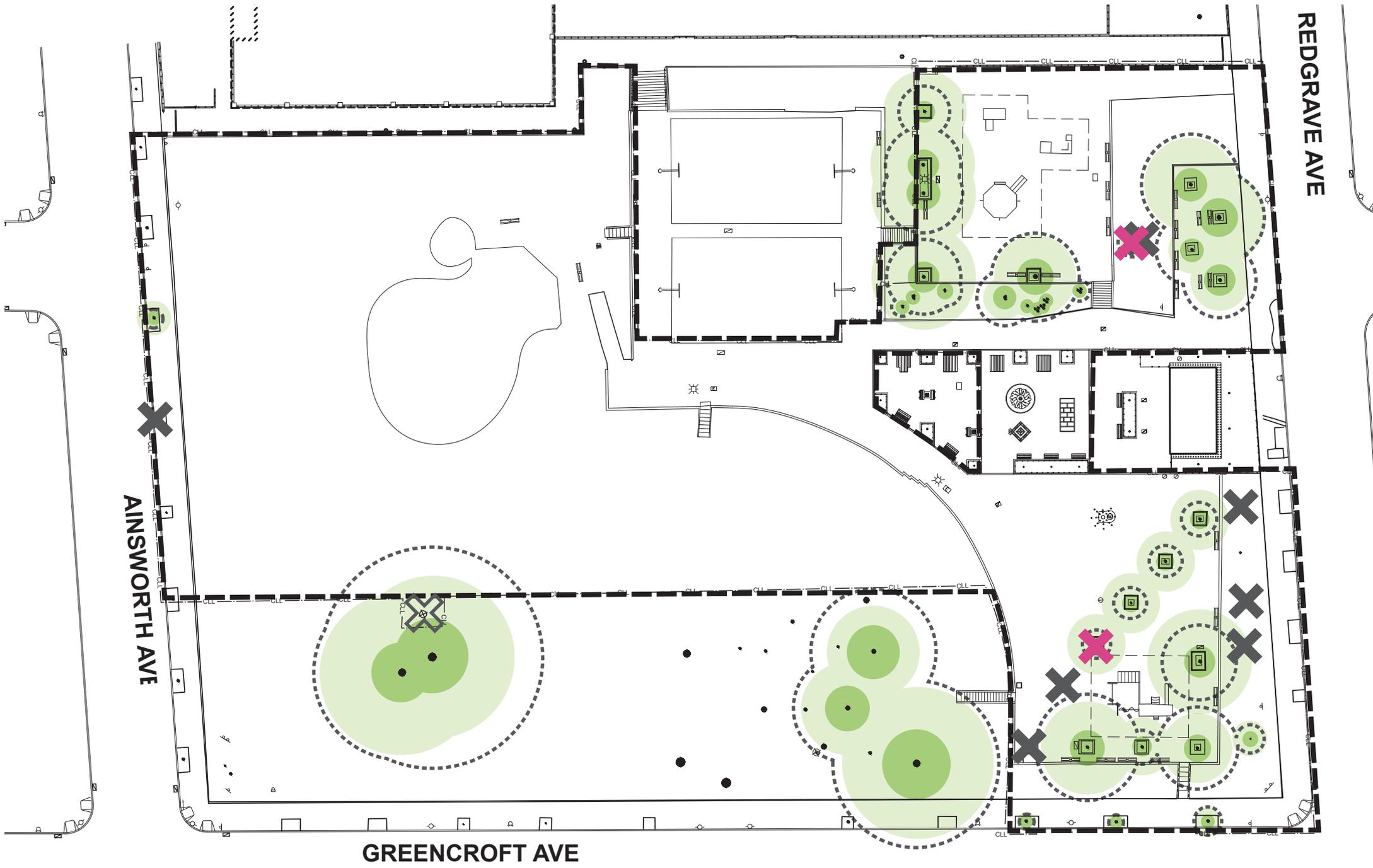
Legend

- 30.0-35.0 elevation
- 25.0-30.0 elevation
- 20.0-25.0 elevation
- <20.0 elevation
- + LP Low point
- + HP High point
- Project Limit



Greencroft Playground | Elevation Change





Legend

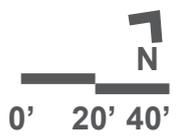
- Canopy
- Structural Root Zone
- Critical Root Zone
- Stump Removal
- Tree Removal due to poor condition
- Tree Removal due to design considerations
- Tree to be transplanted
- Project Limit

Canopy Composition:

14 London Planetree	4 Pear, Callery
10 White Mulberry	1 Oak, Pin
4 Sweetgum	1 Maple, Red
1 Apple	1 Hackberry
5 Oak, Other	



Greencroft Playground | Tree Inventory



DEP Unified Stormwater Rule

- Project is anticipated to disturb greater than 20,000 SF of soil during construction; **DEP Stormwater Management and Permitting will be required.**
- Project is not anticipated to create 200 sf of NEW Impervious Surface; **A DEP Site Connection Proposal will not be required.**
- Project is in an MS4 Area



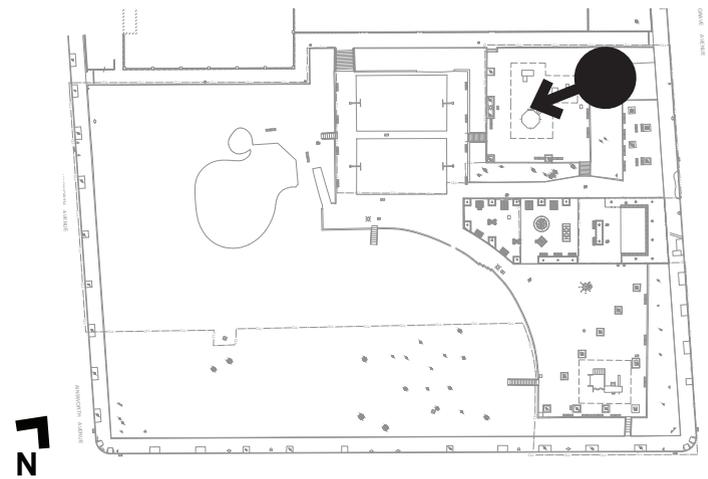


View to 2-5 Year Play on Upper Terrace, Looking South



NYC Parks

Greencroft Playground | Site Photo



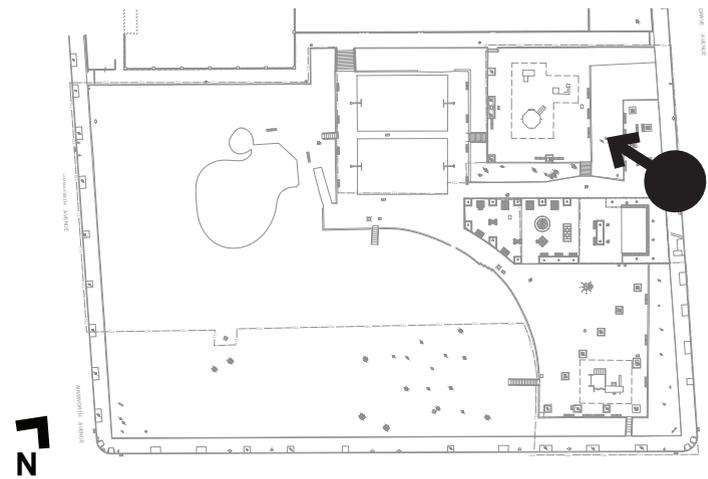


View to Seating Area Along Redgrave Ave.



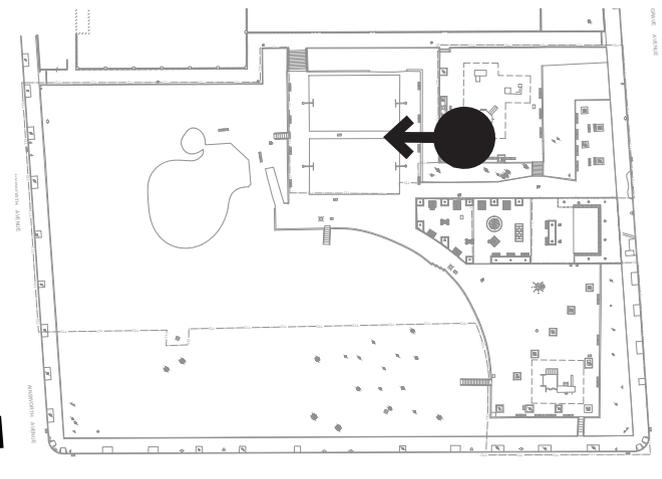
NYC Parks

Greencroft Playground | Site Photo





View to Basketball Courts from Upper Terrace

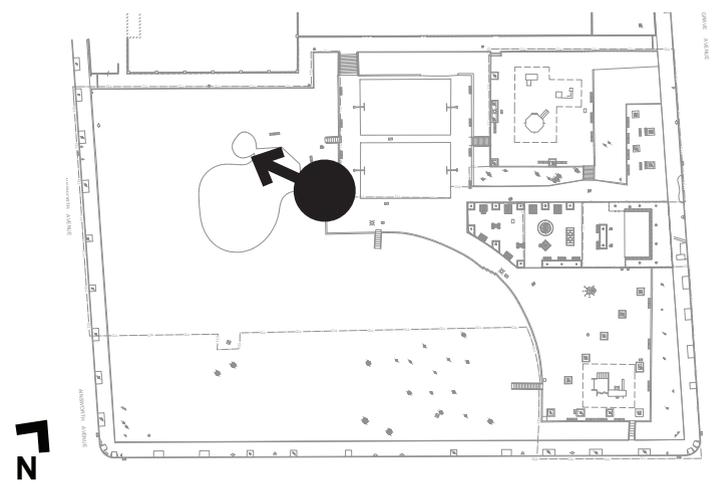




Existing Baseball Field



Greencroft Playground | Site Photo



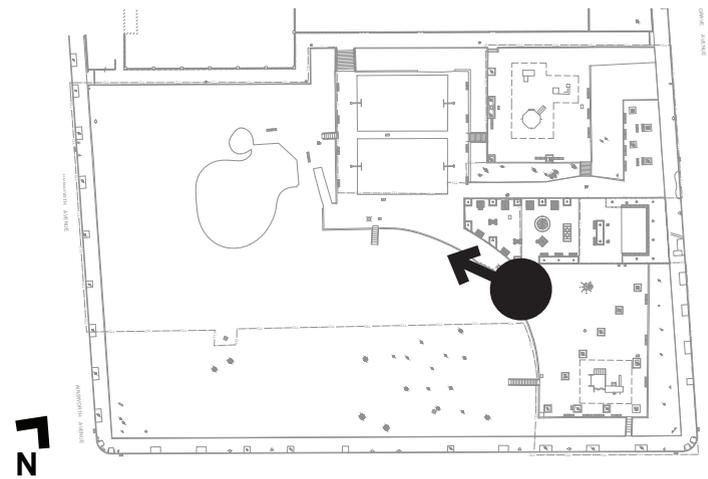


Wooded Area, Field, and School



NYC Parks

Greencroft Playground | Site Photo



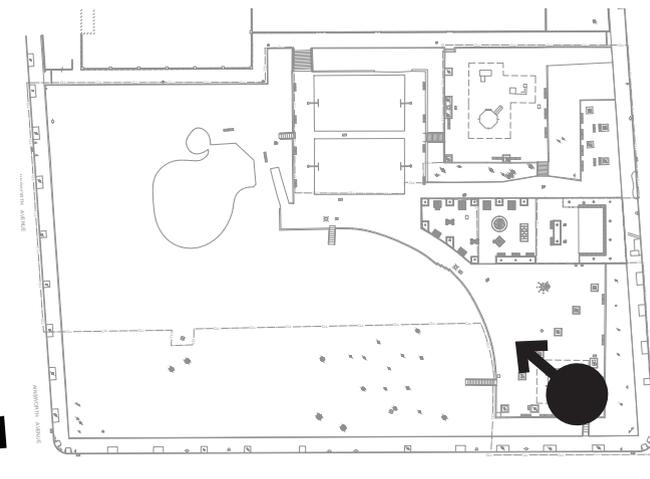


5-12 Play Area Looking West



NYC Parks

Greencroft Playground | Site Photo





1 - View to Seating Area at Redgrave Ave and Slope from Upper Plaza



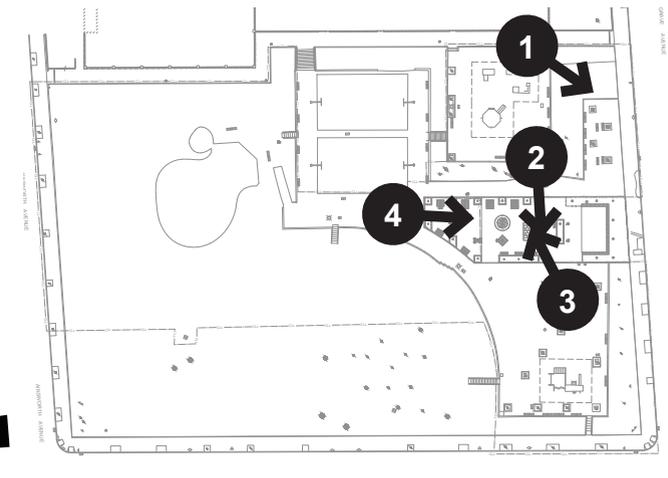
2 - View to East to Previous Comfort Station, now Demolished



3 - View to West to Previous Comfort Station, now Demolished



4 - View to Northeast to Previous Comfort Station, now Demolished



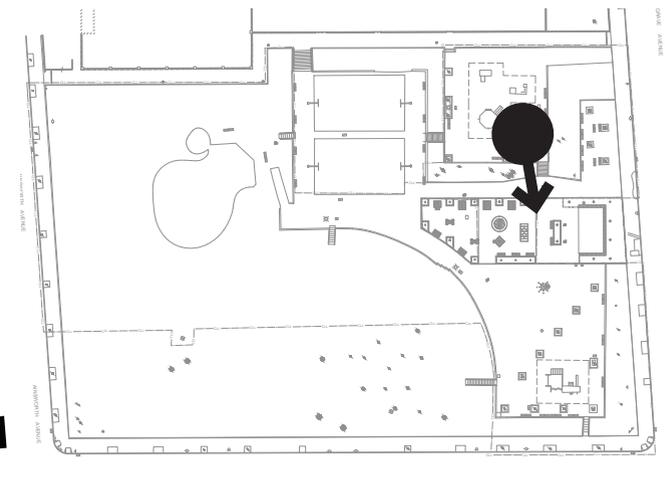


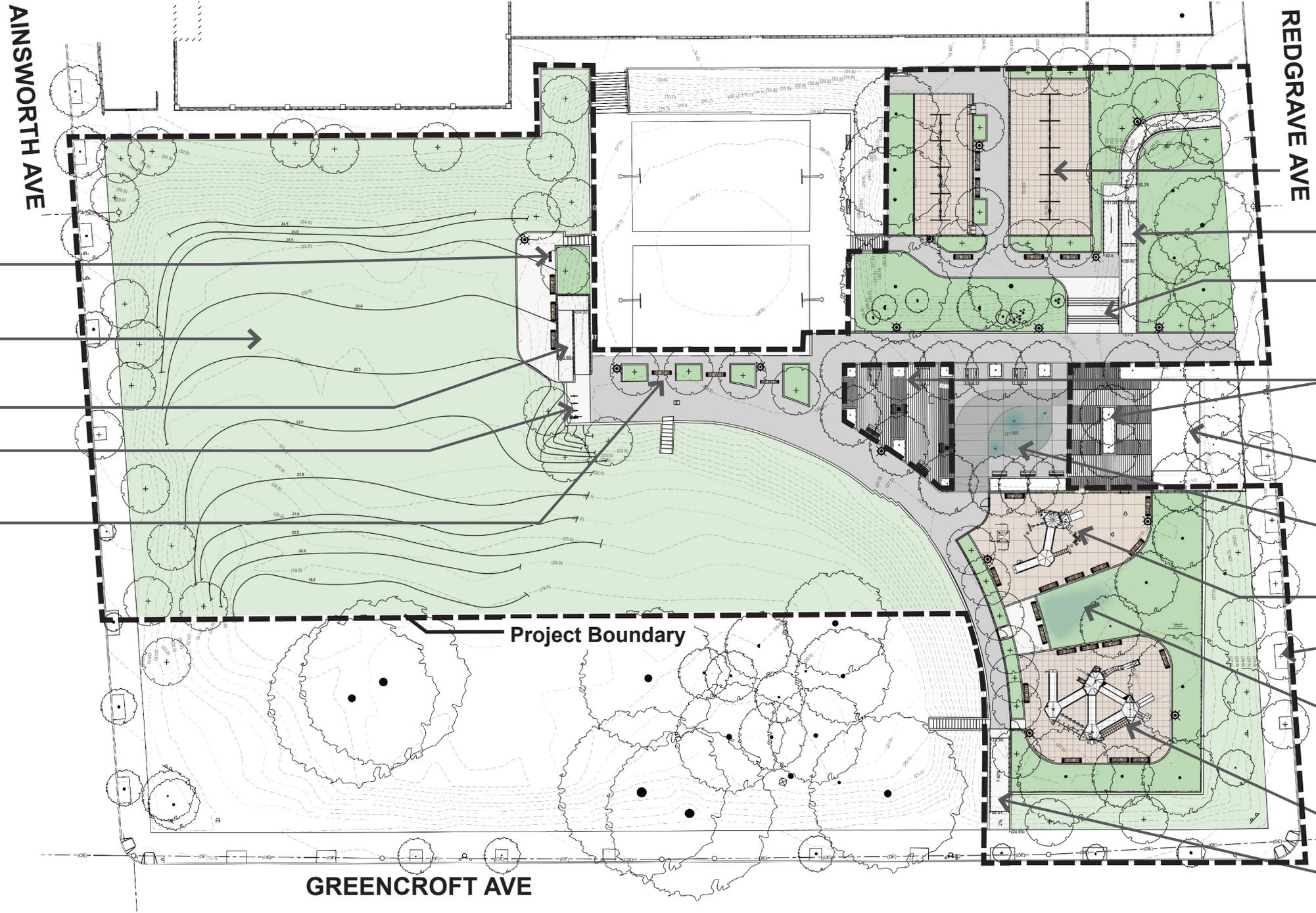
View to Comfort Station Construction Site from Upper Plaza Steps



NYC Parks

Greencroft Playground | Site Photo





- Bottle Filler Drinking Fountain
- Field Levelled for Reduced Flooding
- Ramp to Seating Area
- Bike Racks
- Trees and Seating

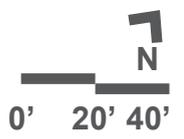
- Swing Zone: Tot & Strap Swings
- Ramp to Swing Level
- Grand Staircase
- Existing Plaza from Comfort Station Reconstruction
- Existing Comfort Station
- New Spray Shower (Colored Concrete)
- 2-5 Year & Tot Play
- Street Trees in Empty Tree Pits
- Rain Garden
- 5-12 Year Play
- New Accessible Entrance

GREENCROFT AVE

Project Boundary

Materials Legend

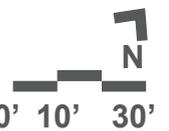
- Asphalt
- Concrete
- Safety Surfacing

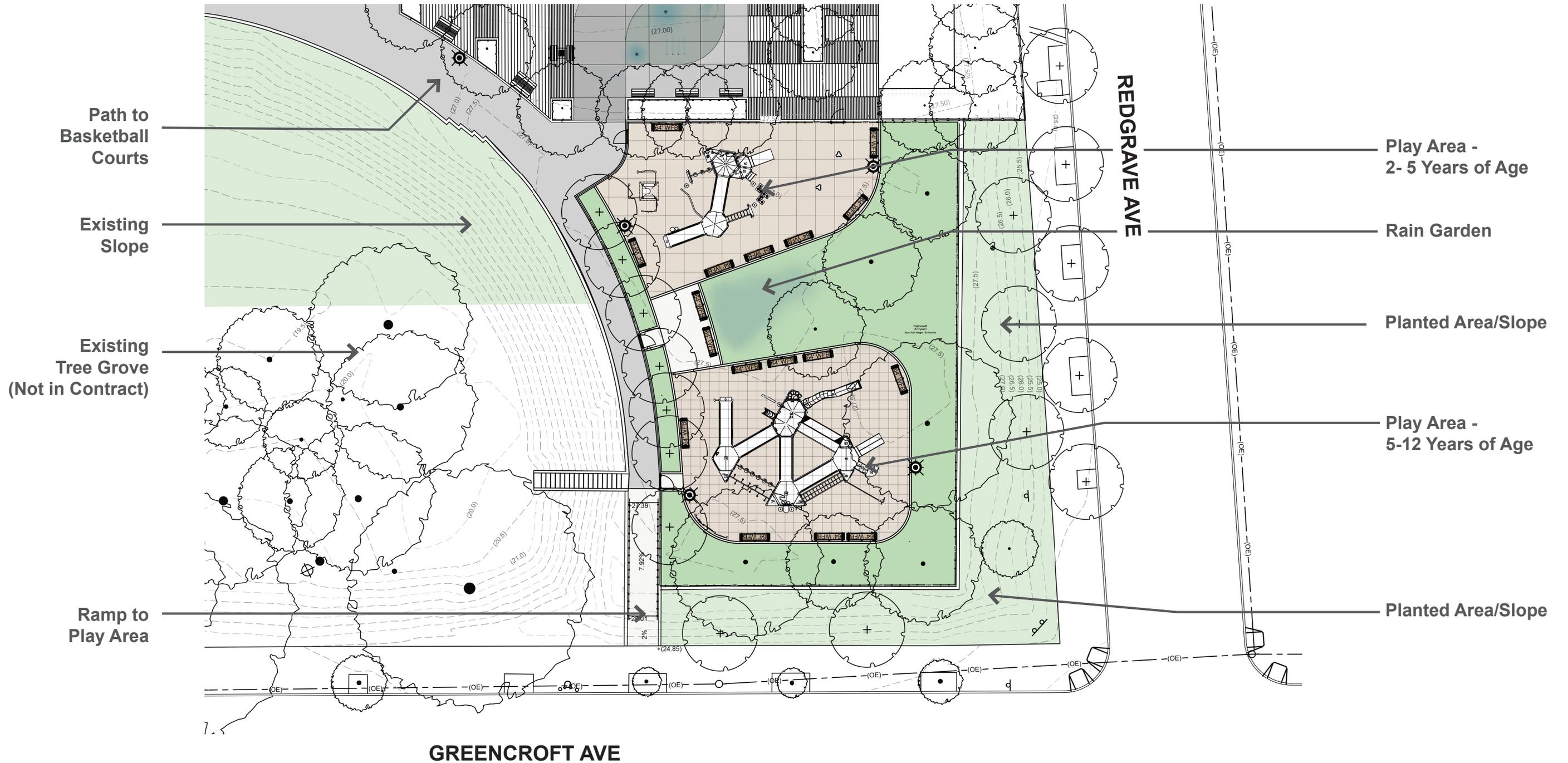


Greencroft Playground | Schematic Plan



Greencroft Playground | Schematic Plan - Enlargement of Swings, Spray and Comfort Station Area





Path to Basketball Courts

Existing Slope

Existing Tree Grove (Not in Contract)

Ramp to Play Area

Play Area - 2-5 Years of Age

Rain Garden

Planted Area/Slope

Play Area - 5-12 Years of Age

Planted Area/Slope

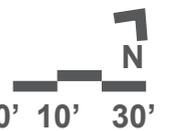
REDGRAVE AVE

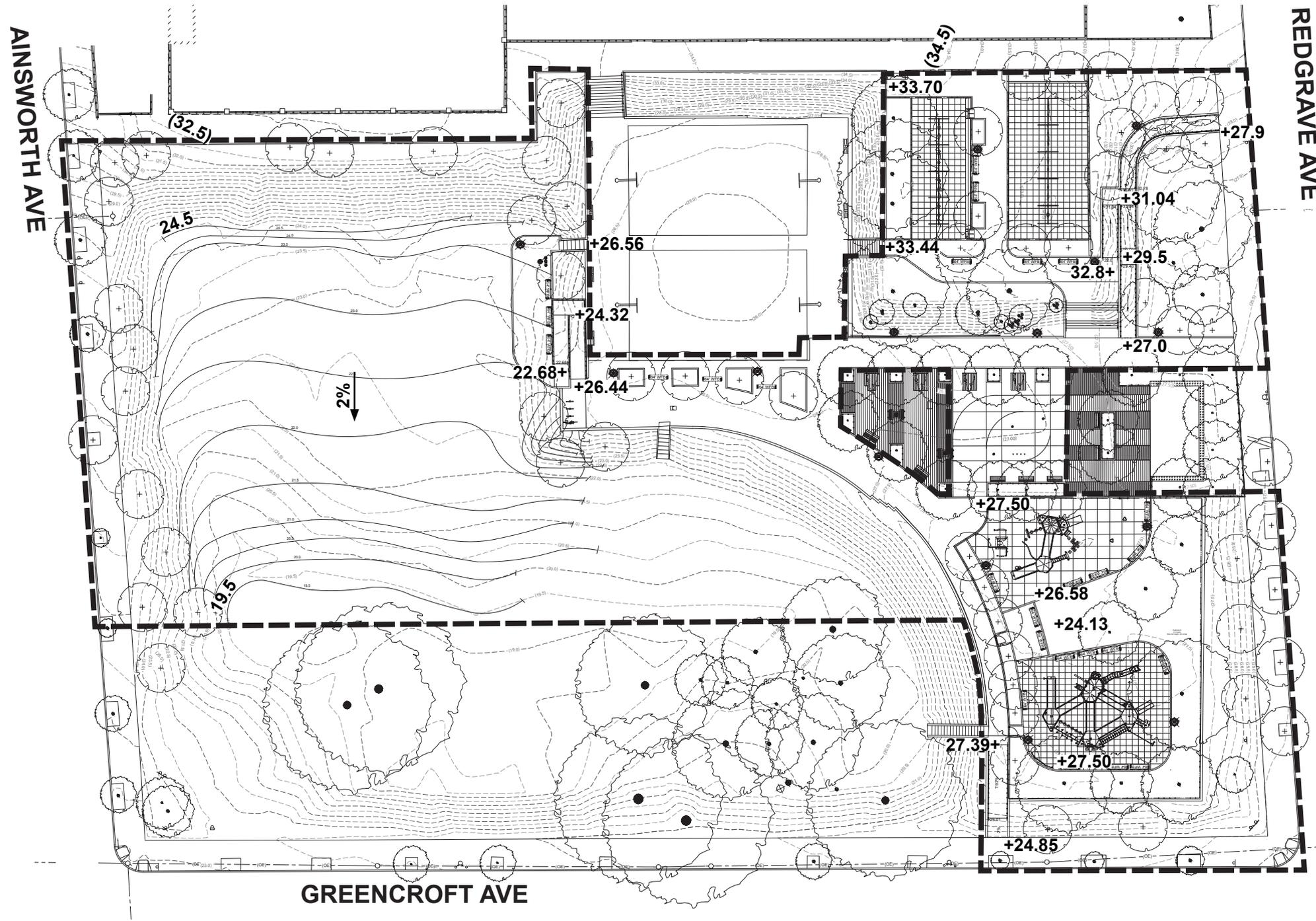
GREENCROFT AVE



NYC Parks

Greencroft Playground | Schematic Plan - Enlargement of Play Areas

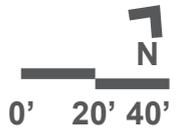


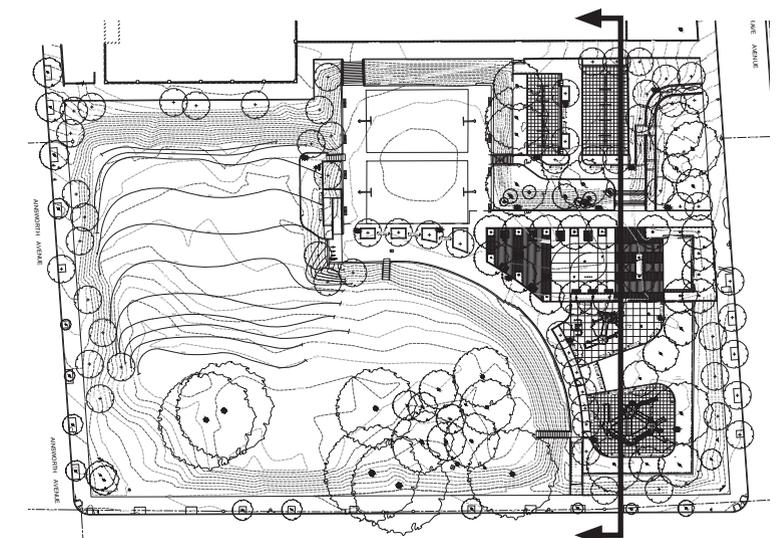
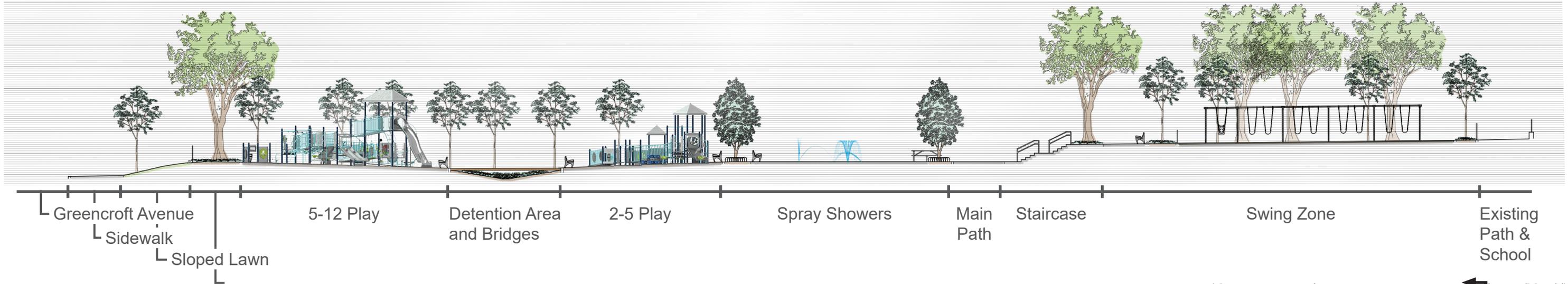


--- Project Limit

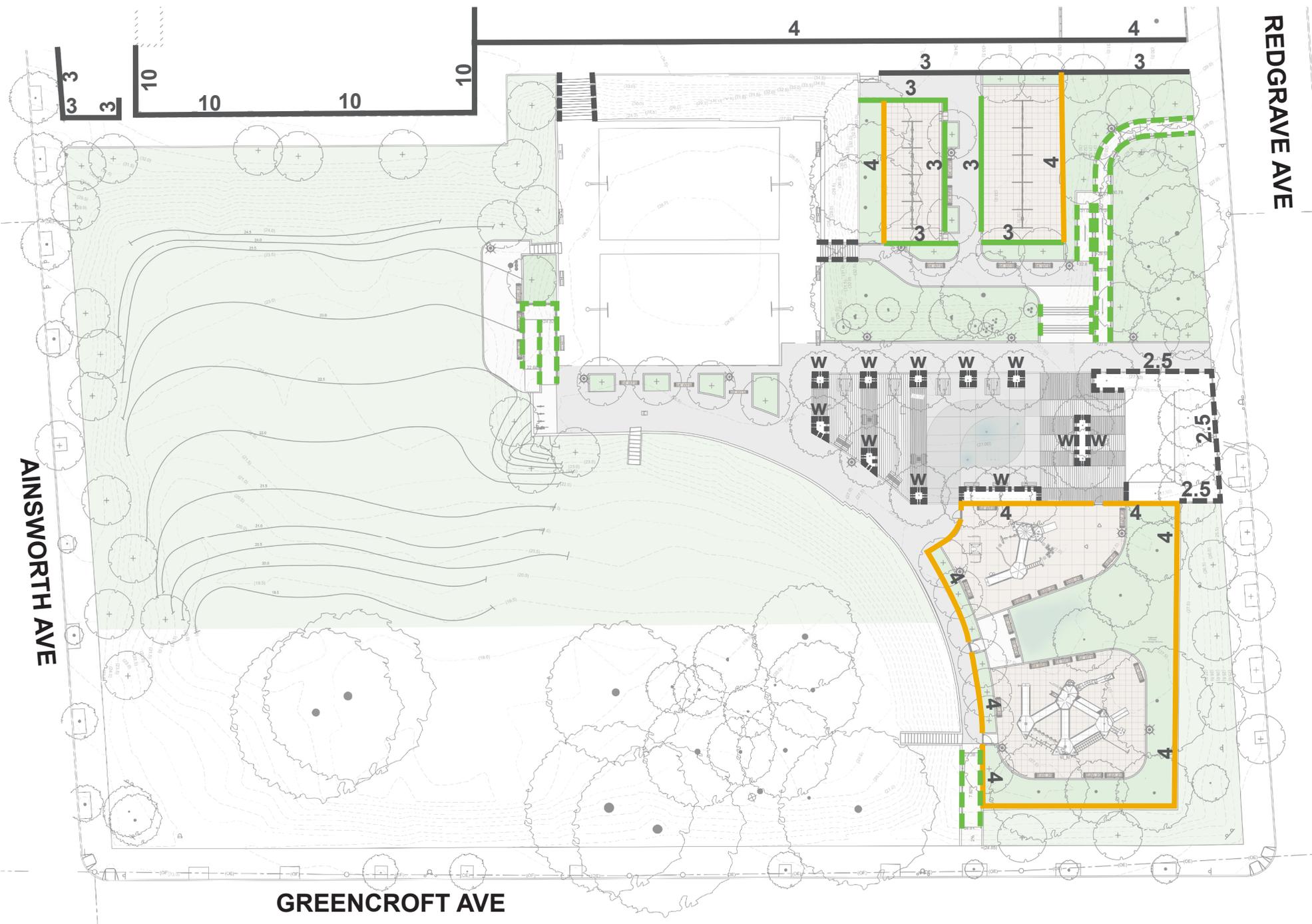


Greencroft Playground | Schematic Grading Plan





Greencroft Playground | Section

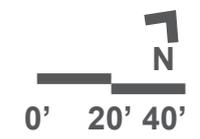


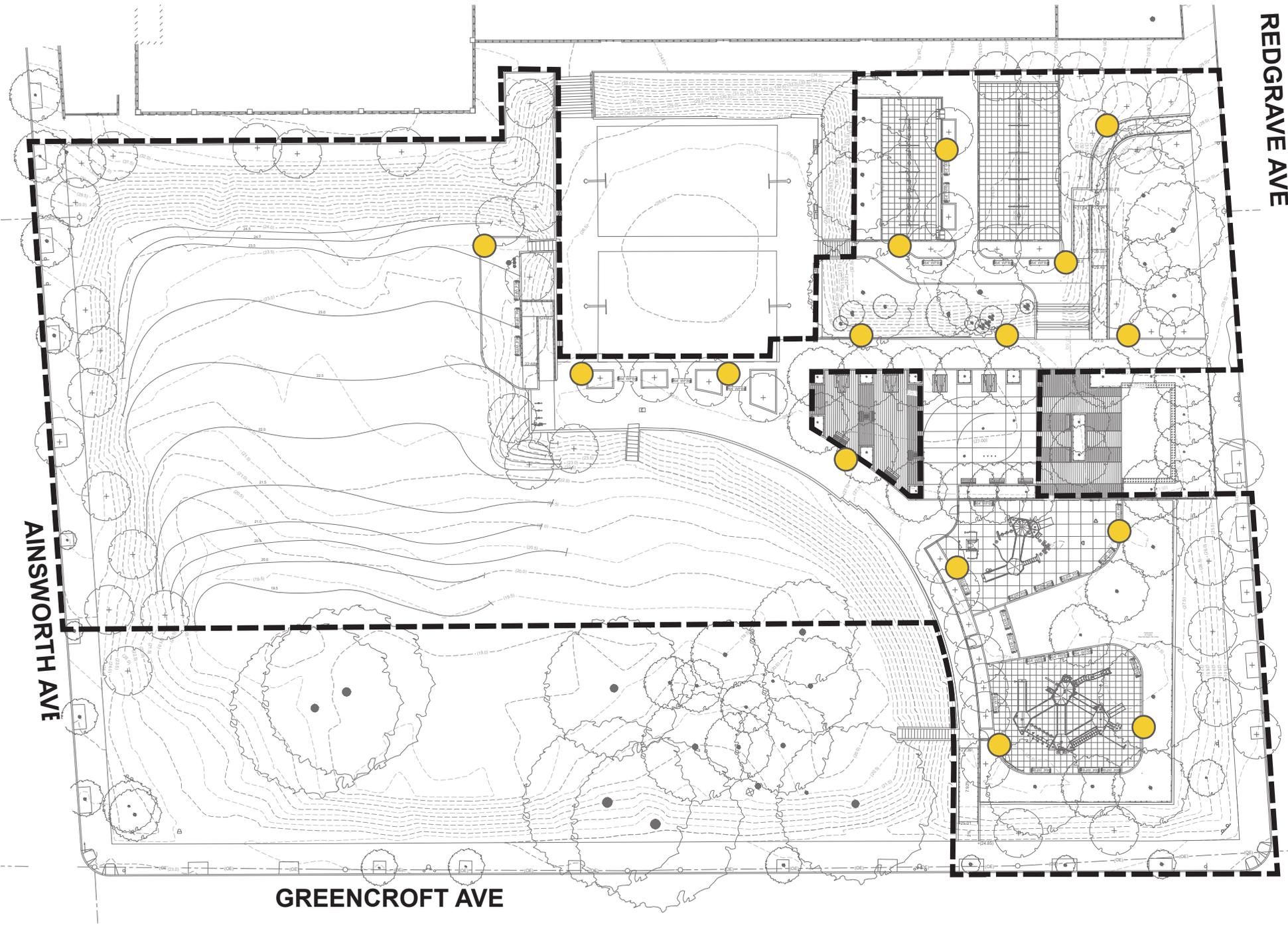
LEGEND

- EXISTING FENCES (x = HEIGHT)**
 - x STEEL
 - x PIPE
 - W WICKET

- MEDIUM / PERIMETER FENCES 4' - 7'-6" HT. (x = HEIGHT)**
 - x STEEL

- LOW / PLANTING FENCES 2'-6" - 3'-6" HT. (x = HEIGHT)**
 - x STEEL
 - x PIPE (HANDRAILS)





REDGRAVE AVE

AINSWORTH AVE

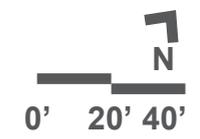
GREENCROFT AVE

Legend

-  Flushing Meadows Pedestrian Pole
-  Project Limit



Greencroft Playground | Lighting Plan

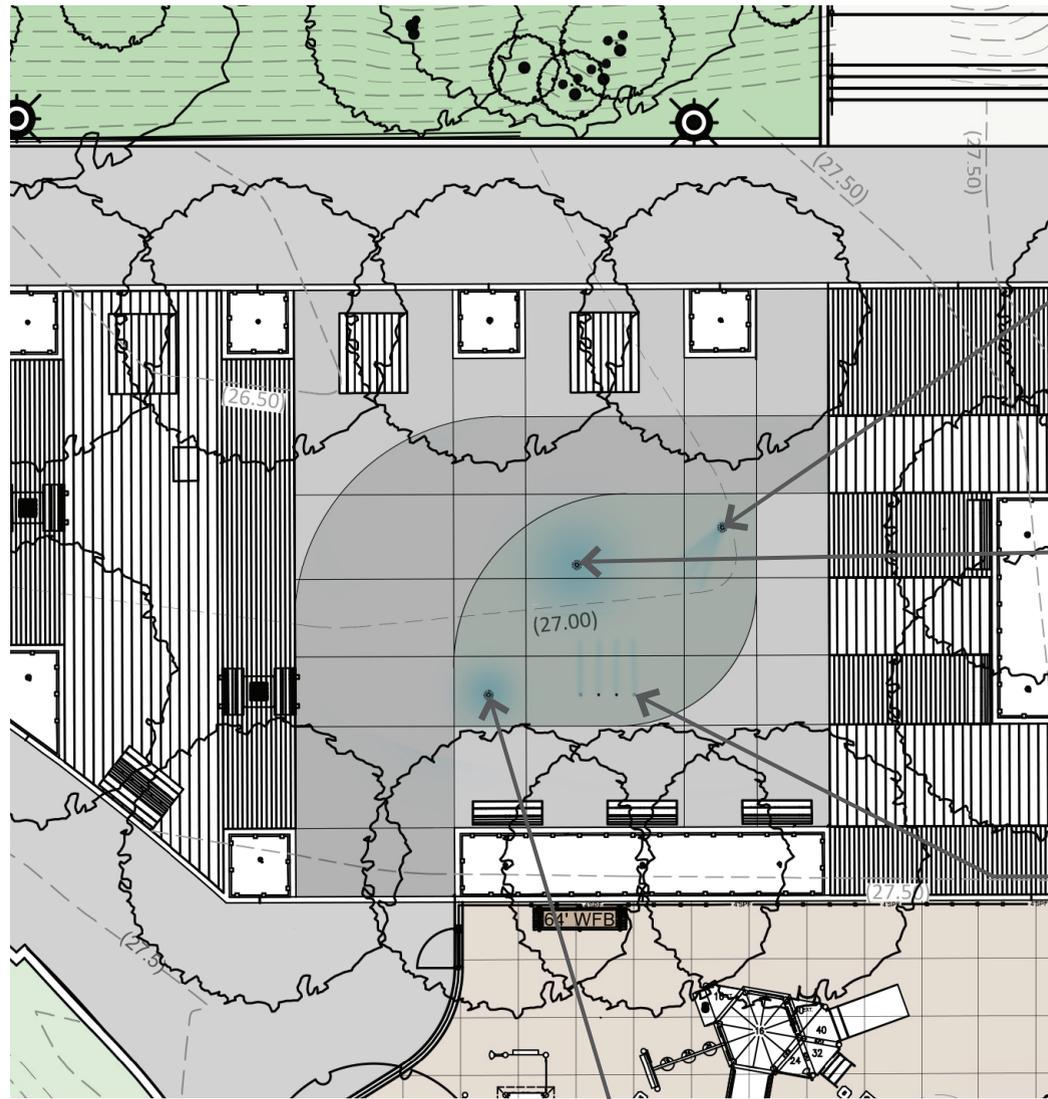




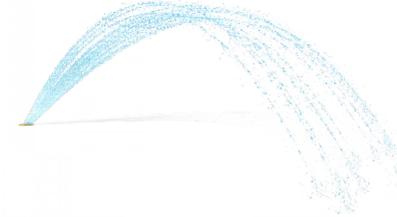
Greencroft Playground | Play Equipment: 5-12 Years



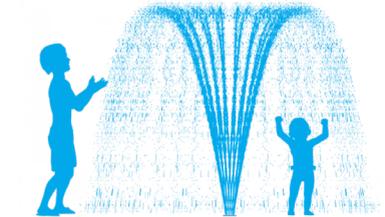
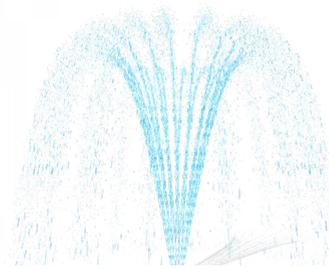
Greencroft Playground | Play Equipment: 2-5 Years



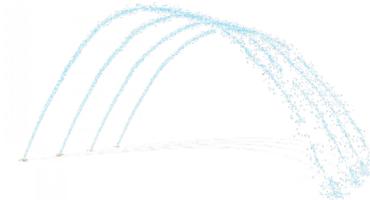
Rooster Tail



Sidewinder

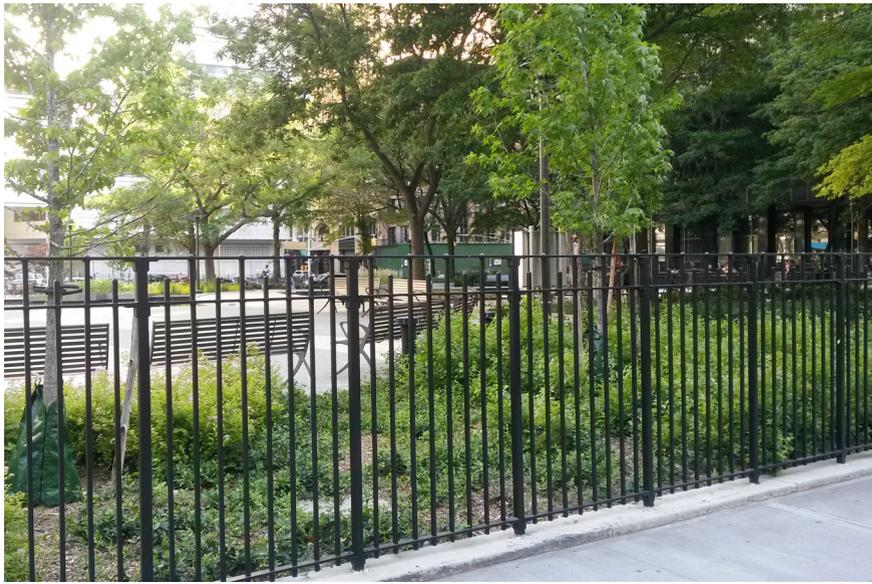


Water Tunnel No. 2

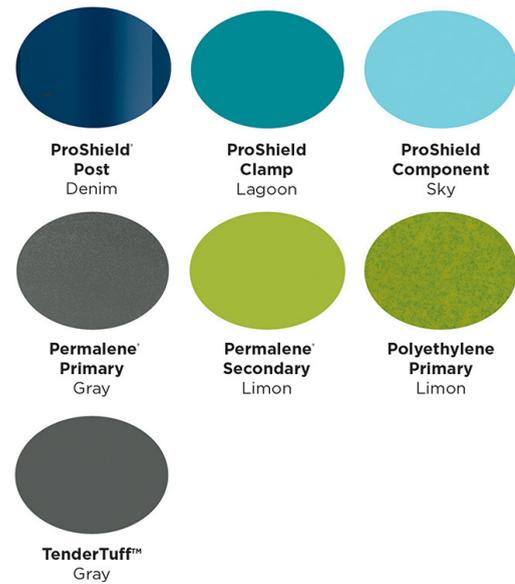


Fountain Spray No. 2

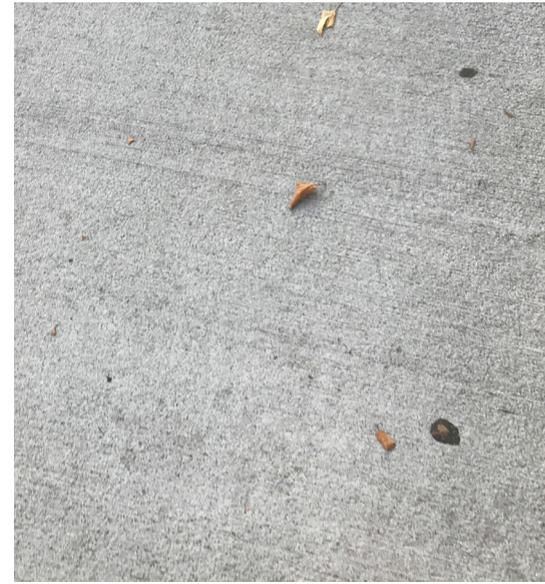




Standard NYC Parks 4'-0" Steel Fencing



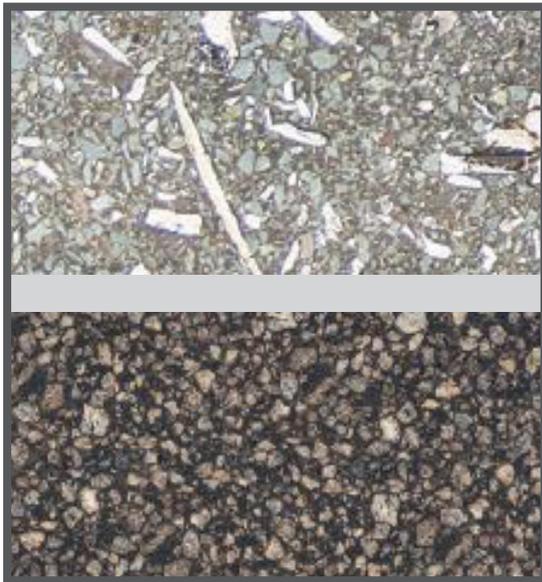
Play Equipment Colors by Landscape Structures



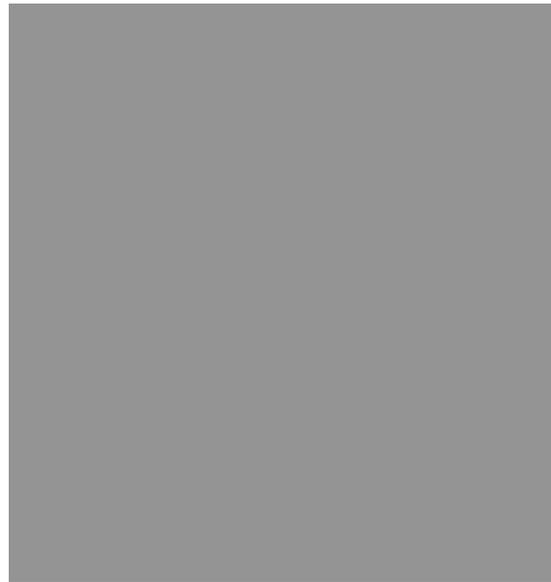
Standard Concrete Pavement: Ramps, Stairs



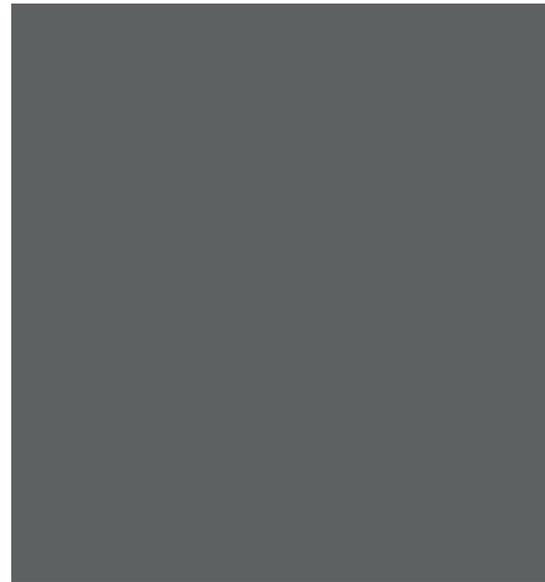
Asphalt Pavement: Paths



Existing Asphalt Block Pavers in Plaza Adjacent to Spray



Spray Shower Colored Concrete Main Field: Gull Grey by Sika



Spray Shower Colored Concrete Secondary Color: Carbon by Sika



Spray Shower Colored Concrete Accent Color: Shadow Slate by Sika



Safety Surfacing: Standard Tan by Mitchell Rubber



1964 World's Fair Bench - with back, RPL color - Weathered Wood, matches furnishings from previous phase



1964 World's Fair Bench - Backless, RPL color - Weathered Wood, matches furnishings from previous phase



NYC CityRack Bike Rack



Public Space Receptacle
Color - Silver



Hi-Lo Bottle Filler Drinking
Fountain



Flushing Meadows Pedestrian Pole





Fruitless Sweetgum
Liquidambar styraciflua rotundiloba



Pin Oak
Quercus palustris



Willow Oak
Quercus phellos



Jefferson American Elm
Ulmus americana 'Jefferson'



Serviceberry
Amelanchier x grandiflora



Pink Flowering Dogwood
Cornus florida rubra



Dwarf Fothergilla
Fothergilla gardenii



Kalm's St. John's Wort
Hypericum kalmianum 'Ames'



Inkberry Holly*
Ilex glabra





Arrowwood Viburnum*
Viburnum dentatum



Winterberry Holly**
Ilex verticillata



Sweet Pepperbush**
Clethra alnifolia



Buttonbush**
Cephalanthus occidentalis



Spicebush**
Lindera benzoin



Gro-Low Fragrant Sumac*
Rhus aromatica 'Gro-Low'

Plants selected from plants that occur in Staten Island forests and species that were selected for the comfort station project.

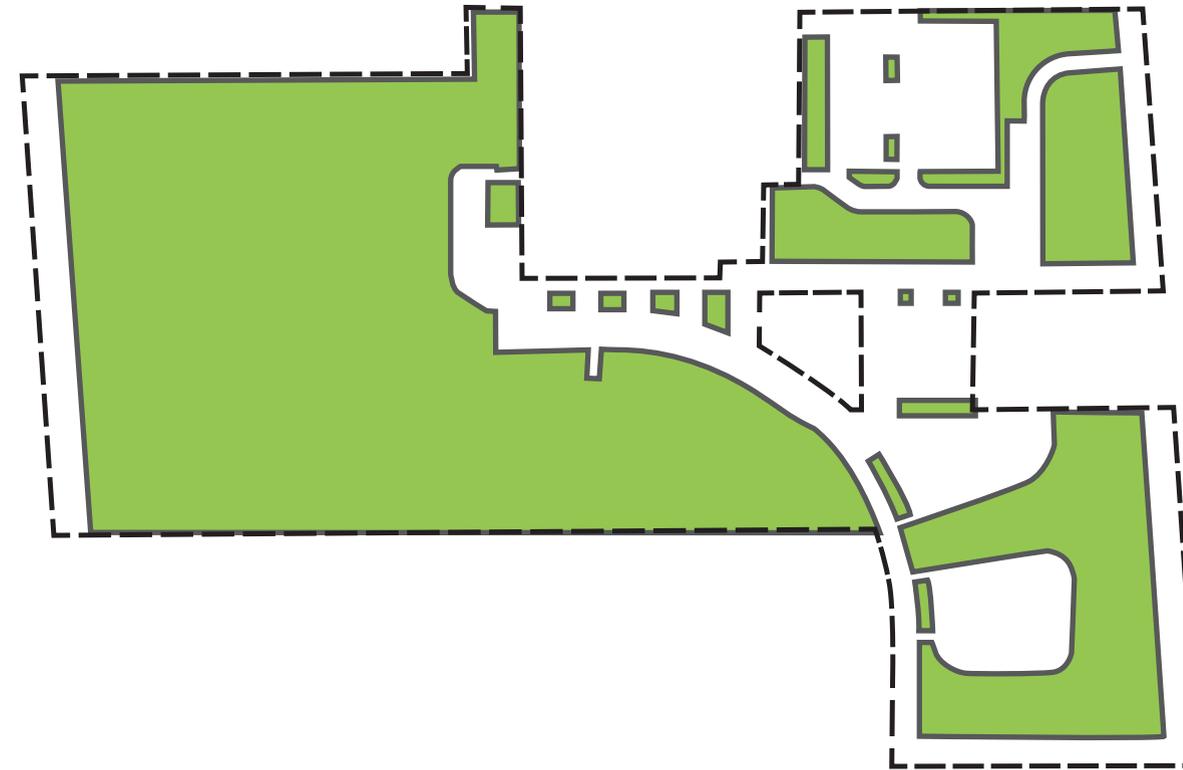
KEY

- *To be used in main plantings and rain garden
- **To be used in rain garden, but not elsewhere





Existing Permeability: 63.9%



Proposed Permeability: 72.0%

LEGEND

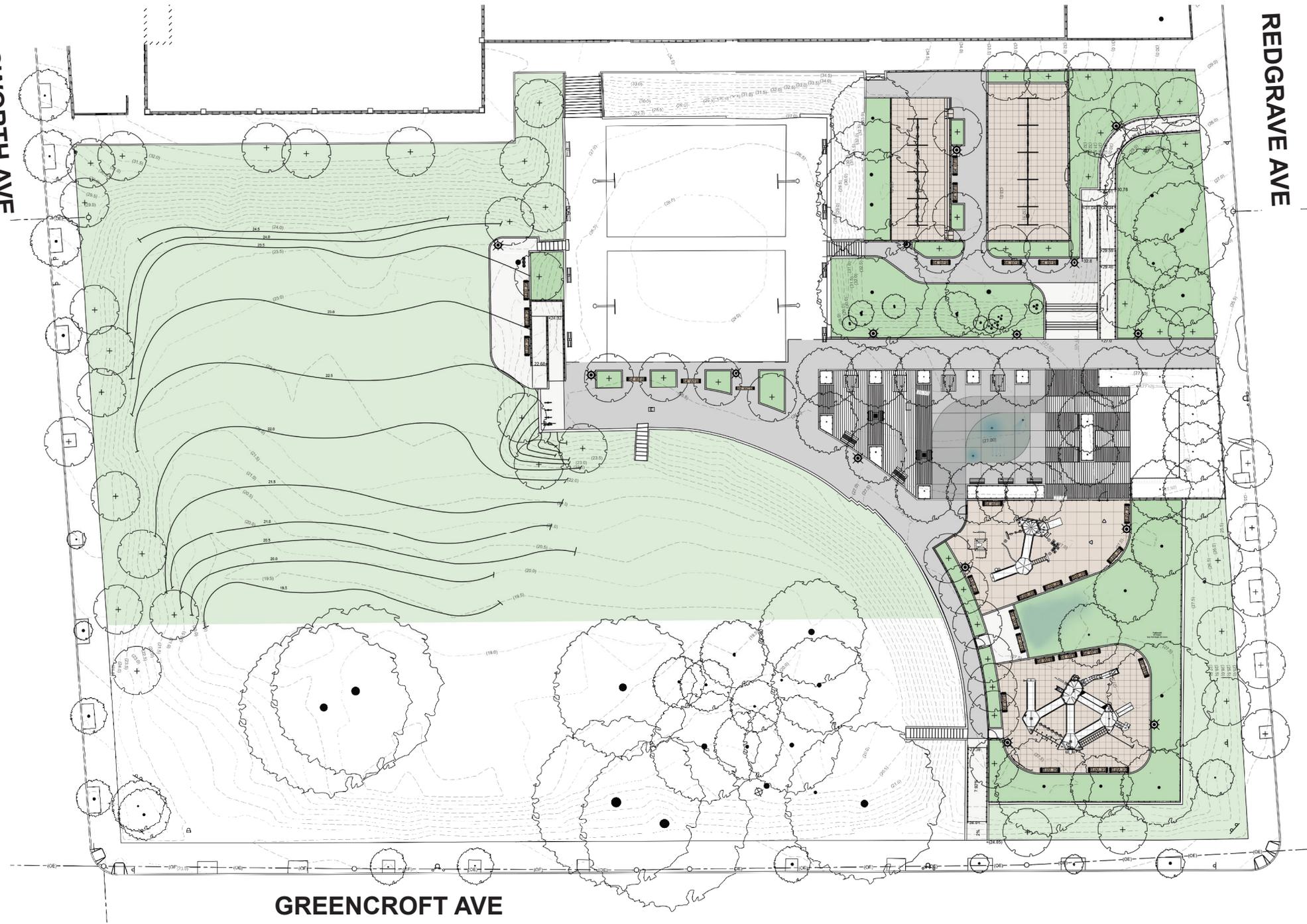
 PLANT BED/LAWN

SUSTAINABLE PRACTICES

- Increase permeable surfaces
- Reduce storm water runoff with bioswales and detention
- Balance cut and fill
- Use recycled content material
- Improve tree health and growing conditions
- Use site appropriate resilient plant material

AINSWORTH AVE

REDGRAVE AVE



GREENCROFT AVE



NYC Parks

Greencroft Playground | Schematic Plan

