



Parks

Oracle Playground Reconstruction

Located between Adelphi Street and Clermont Ave,
In the Borough of Brooklyn.

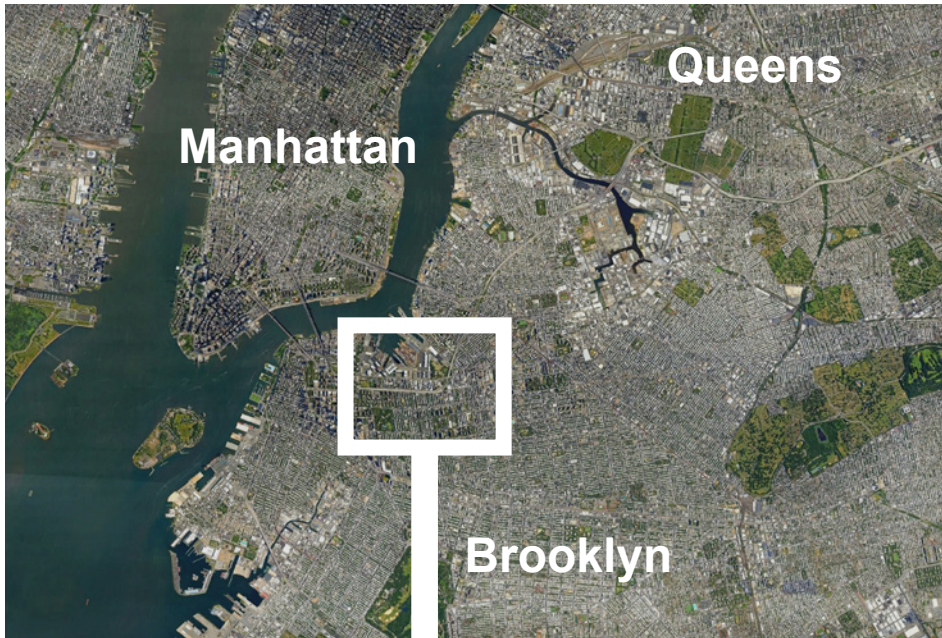
PDC Conceptual Review
November 13th, 2023

Total Budget: \$2.5 M (total construction budget)
City Council District 35, Crystal Hudson

Project Size: 0.44 Acre

Goals

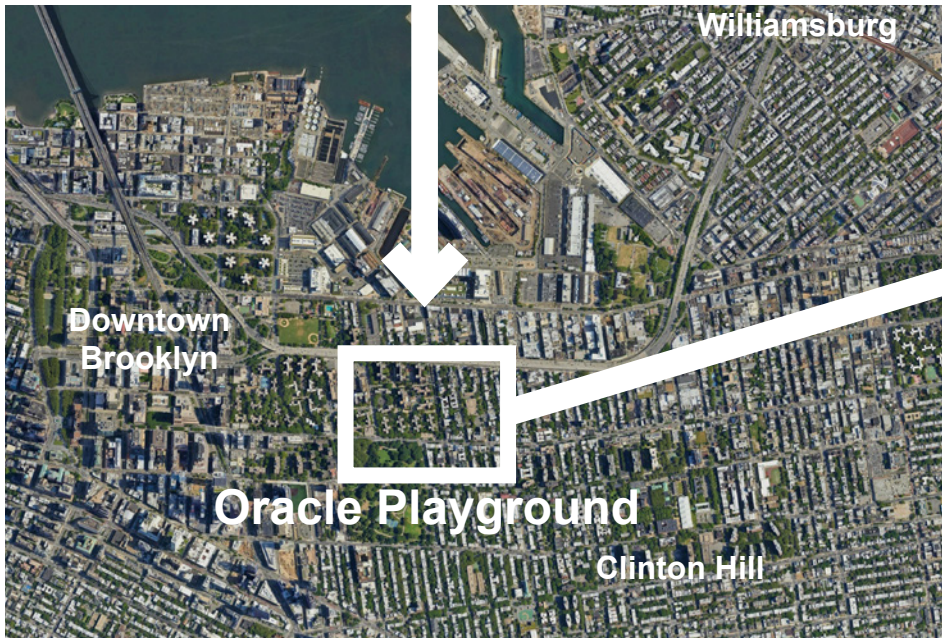
- Provide the community an inclusive, accessible, and sustainable park
- Facilitate activities for children of all ages and abilities
- Maximize play area and value
- Protect and enhance planting and shade
- Add security lighting to improve visibility and views
- Create a safe and welcoming environment



City

2 MI

N



Neighborhood

1000 FT

N



Site

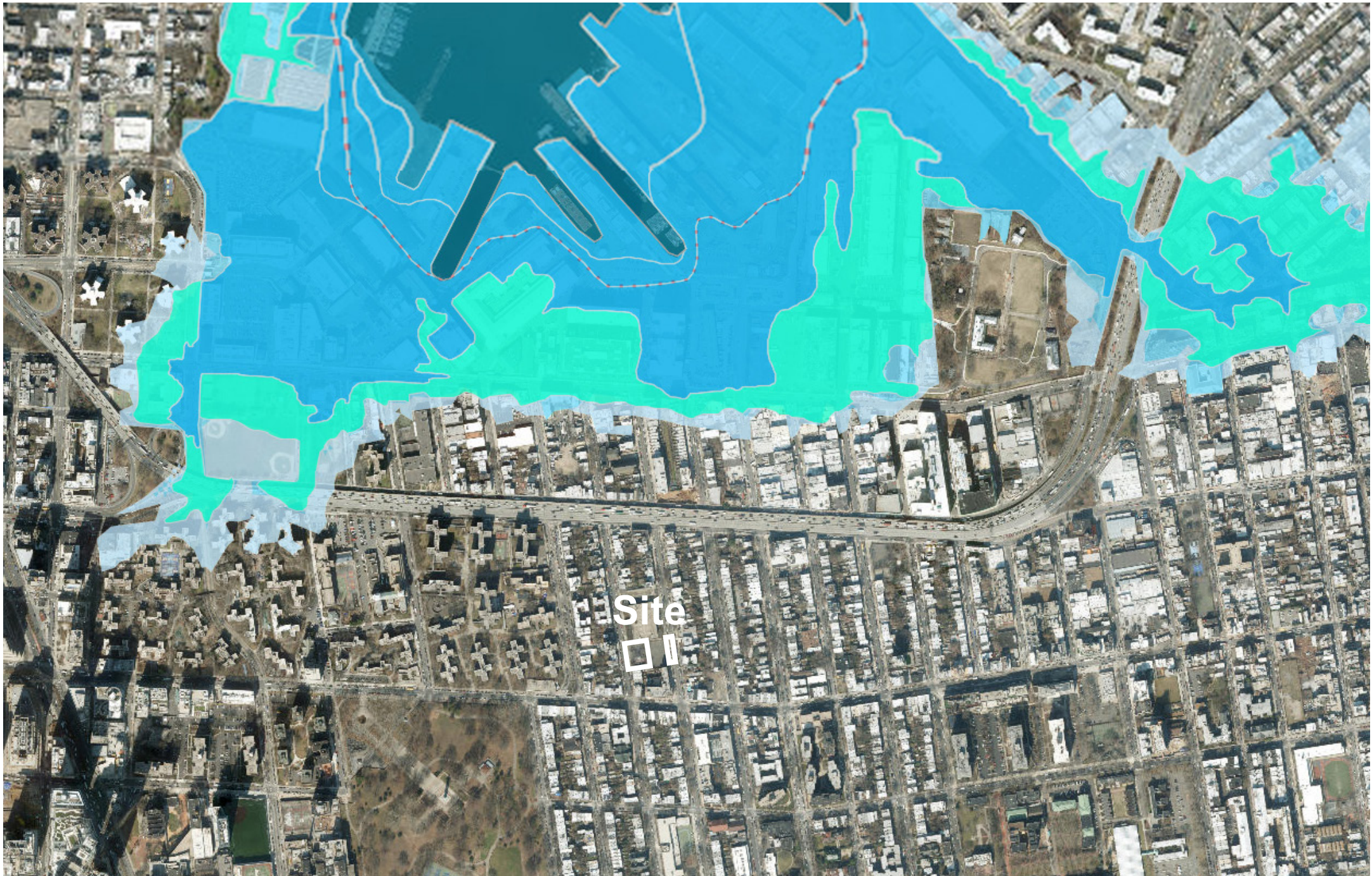
100 FT

N



MARVEL

Oracle 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 associated with storm-induced waves.
- 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.

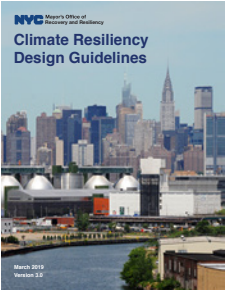
Future Floodplain 2050s

- 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



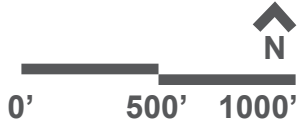
NYC MOCR: Climate Resiliency Design Guidelines (v4.0)

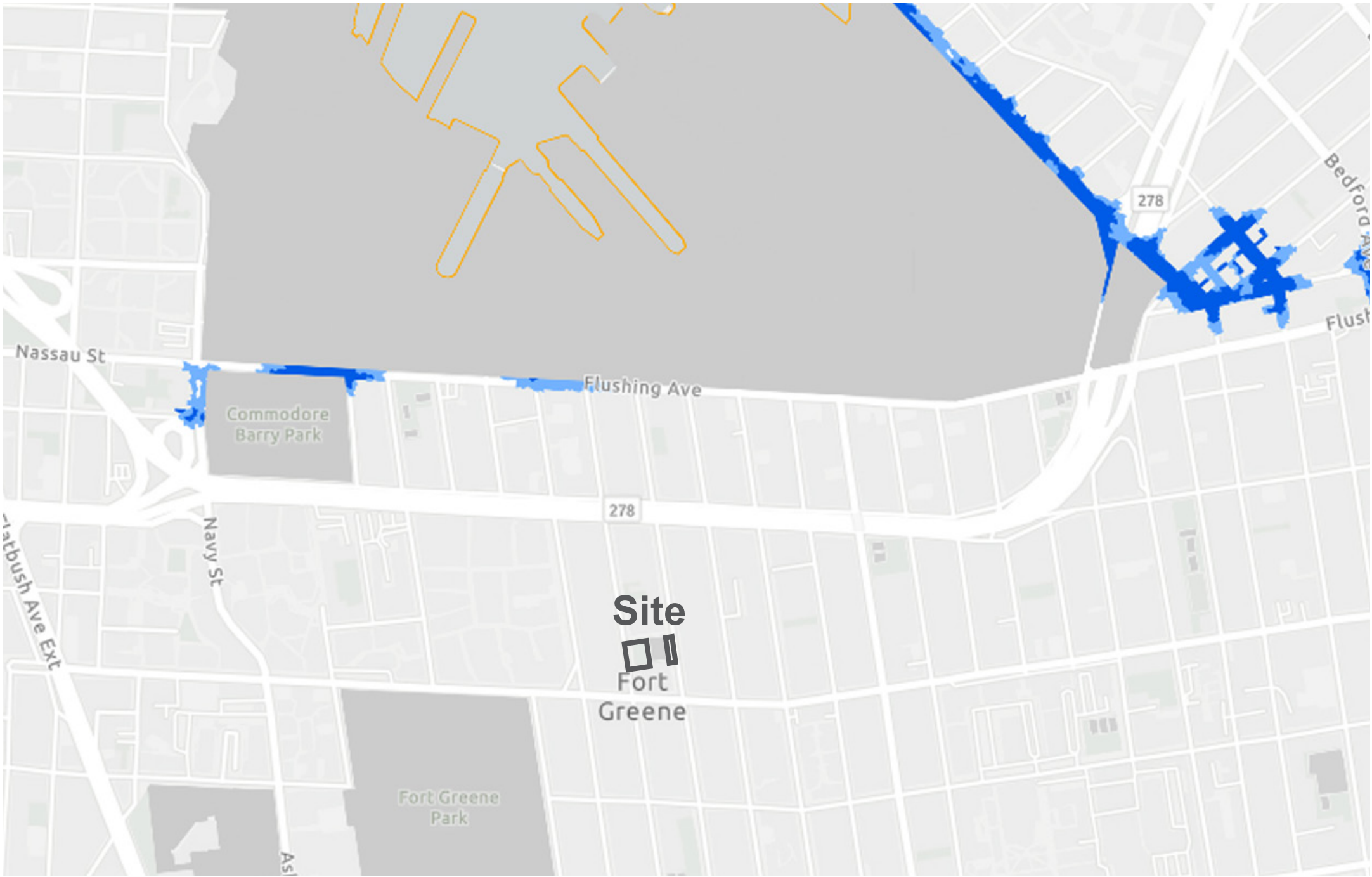


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Oracle Playground | Flood Risk (Coastal)





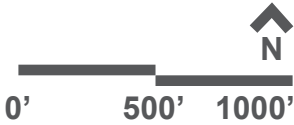
NYC Stormwater Flood Maps (Moderate Flooding)

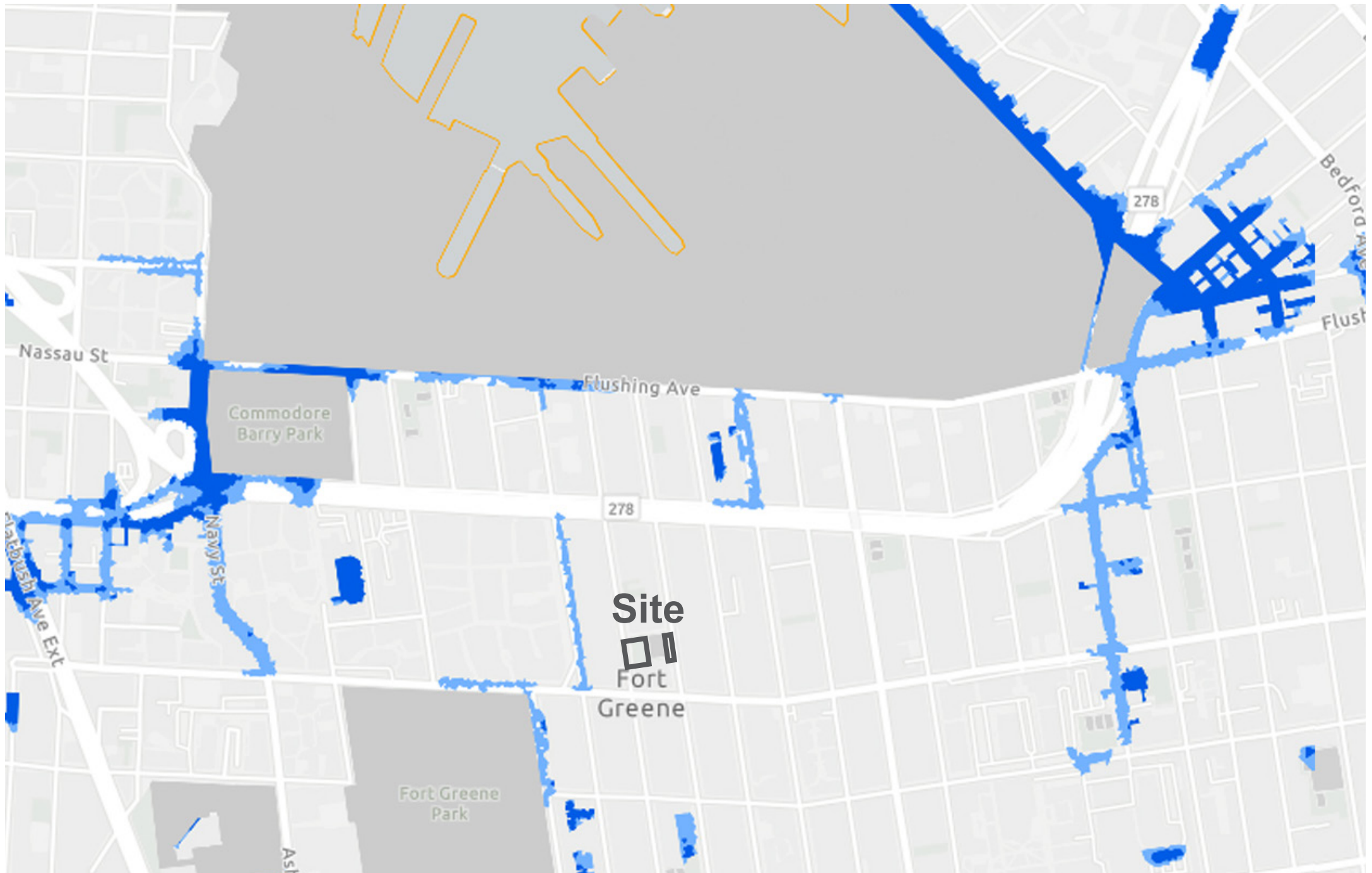
- Area not included in analysis
- Future High Tides 2050
- National Wetlands Inventory
- Deep and Contiguous Flooding (1ft and greater)
- Nuisance Flooding (greater or equal to 4 in and less than 1 ft)

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.



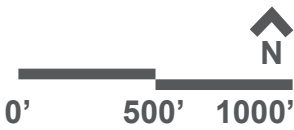


NYC Stormwater Flood Maps (Extreme Flooding)

- 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.



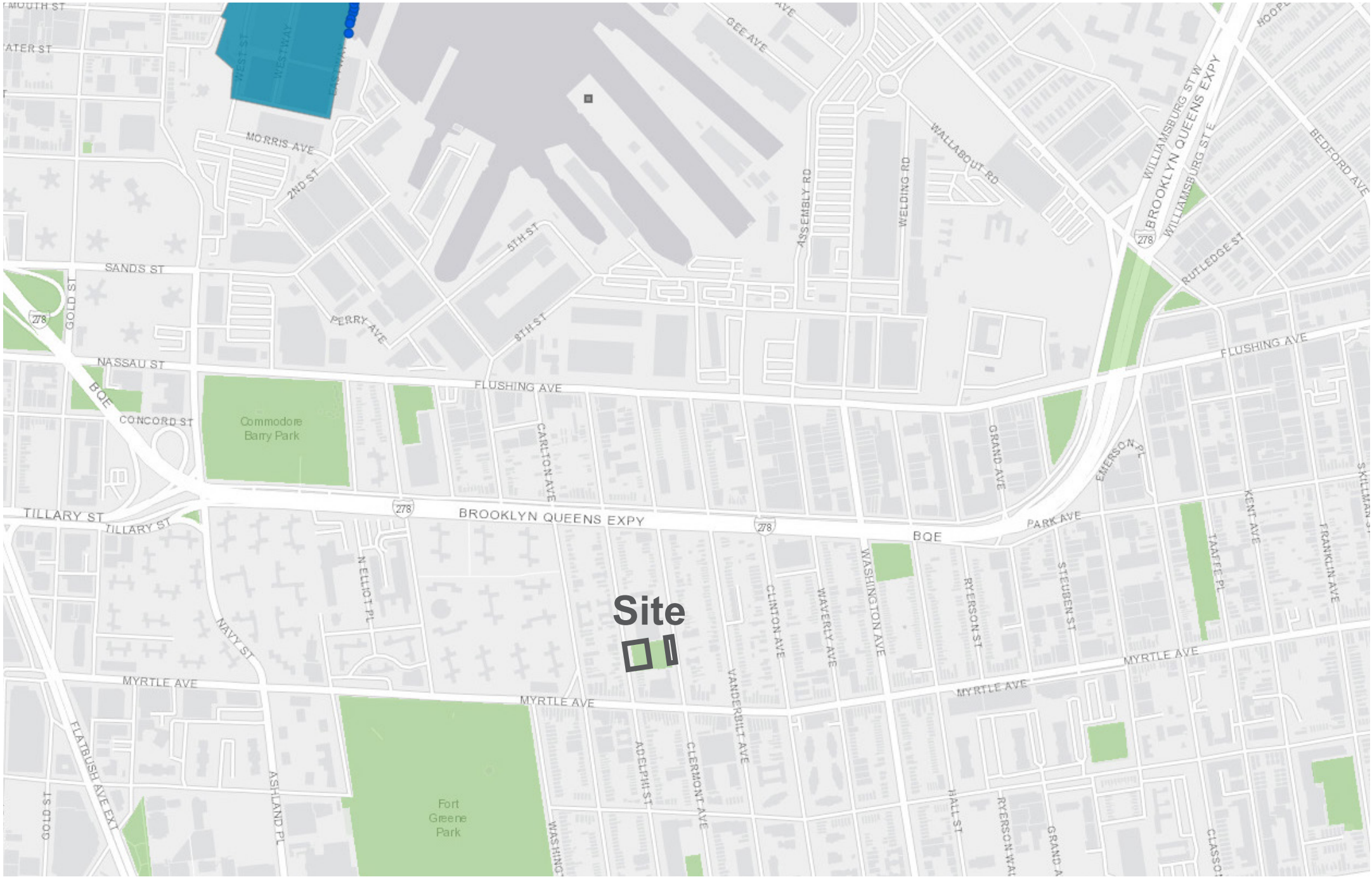
DEP Unified Stormwater Rule

- Project is anticipated to disturb less than 20,000 SF of soil during construction;
- Project is anticipated to create less than 5,000 SF of NEW Impervious Surface;

DEP Stormwater Management and Permitting will not be required.

- Project is anticipated to use existing site connection.

A DEP Site Connection Proposal will not be required.



Municipal Separate Storm Sewer System (MS4) Legend:

MS4 Drainage Areas



Parks



MS4 Outfalls

- MS4 Outfall
- CSO with MS4 Connection

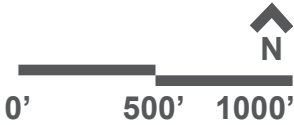
A municipal separate storm sewer system (MS4) is a publicly-owned conveyance or system of conveyances (including but not limited to streets, ditches, catch basins, curbs, gutters, and storm drains) that is designed or used for collecting or conveying stormwater and that discharges to surface waters of the State.

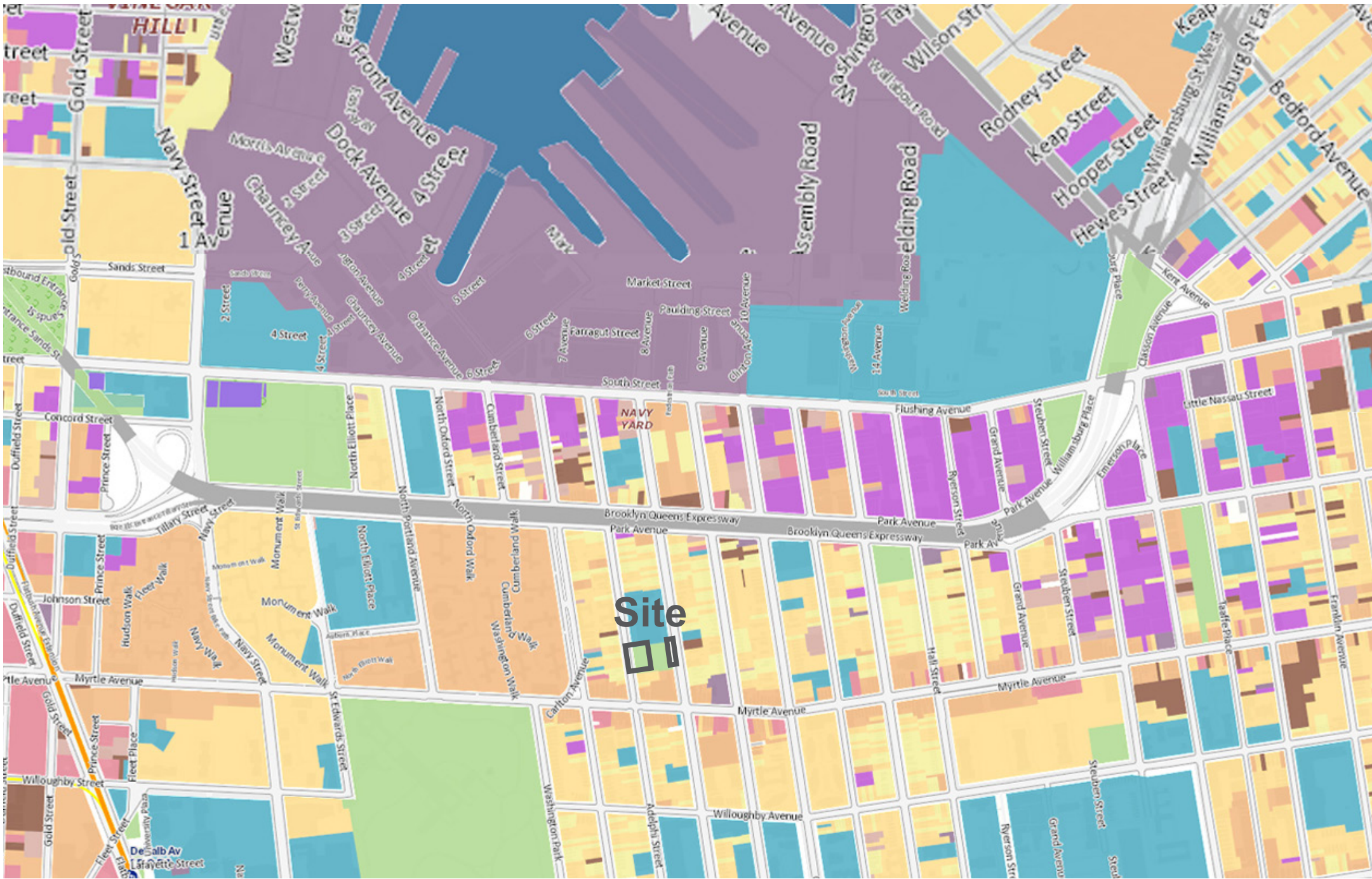
Note: Any Parks site that directly discharges to surface waters of the State (e.g. East River, Harlem River, Hudson River, Jamaica Bay, Atlantic Ocean) is an MS4 site regardless of what the MS4 map shows. Parks properties immediately adjacent to or near bodies of water are likely to be downstream of combined sewer regulator points, making them MS4 sites.



MARVEL

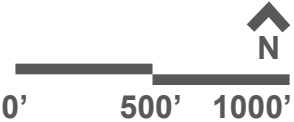
Oracle Playground | Municipal Separate Storm Sewer System (MS4)





Land Use Categories

- 1 And 2 Family Residential
- Multi-Family Residential (Walkup)
- Multi-Family Residential (Elevator)
- Mixed Use
- Commercial & Office
- Industrial & Manufacturing
- Transportation / Utilities
- Public Facilities & Institutional
- Open Space And Outdoor Recreation
- Parking
- Vacant Land
- Other



Oxport Playground

- Basketball
- Tennis
- Fitness Equipment
- Playgrounds
- Spray Showers

Commodore Barry Park

- Baseball Fields
- Handball Courts
- Basketball Courts
- Football Fields
- Outdoor Pool
- Playgrounds
- Public Restrooms
- Spray Showers

Fort Greene Park

- Barbecuing Areas
- Basketball Courts
- Dog-friendly Areas
- Eateries
- Nature Center
- Playgrounds
- Public Restrooms
- Spray Showers
- Tennis Courts
- Wi-Fi

Edmonds Playground

- Basketball Courts
- Playgrounds
- Public Restrooms
- Spray Showers

Sreuben Playground

- Fitness Equipment
- Handball Courts
- Basketball Courts
- Playgrounds
- Passive Areas

Washington Hall Park

- Handball Courts
- Basketball Courts
- Playgrounds
- Public Restrooms
- Spray Showers

Albert J. Parham Playground

- Basketball Courts
- Handball Courts
- Outdoor Pool
- Play Equipment
- Public Restrooms
- Spray Showers

Pratt Playground

- Handball Courts
- Basketball Courts
- Playgrounds
- Public Restrooms
- Spray Showers

Underwood Park

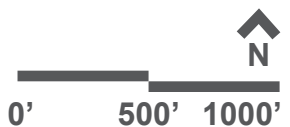
- Handball Courts
- Basketball Courts
- Roller Hockey
- Comfort Station
- Play Equipment

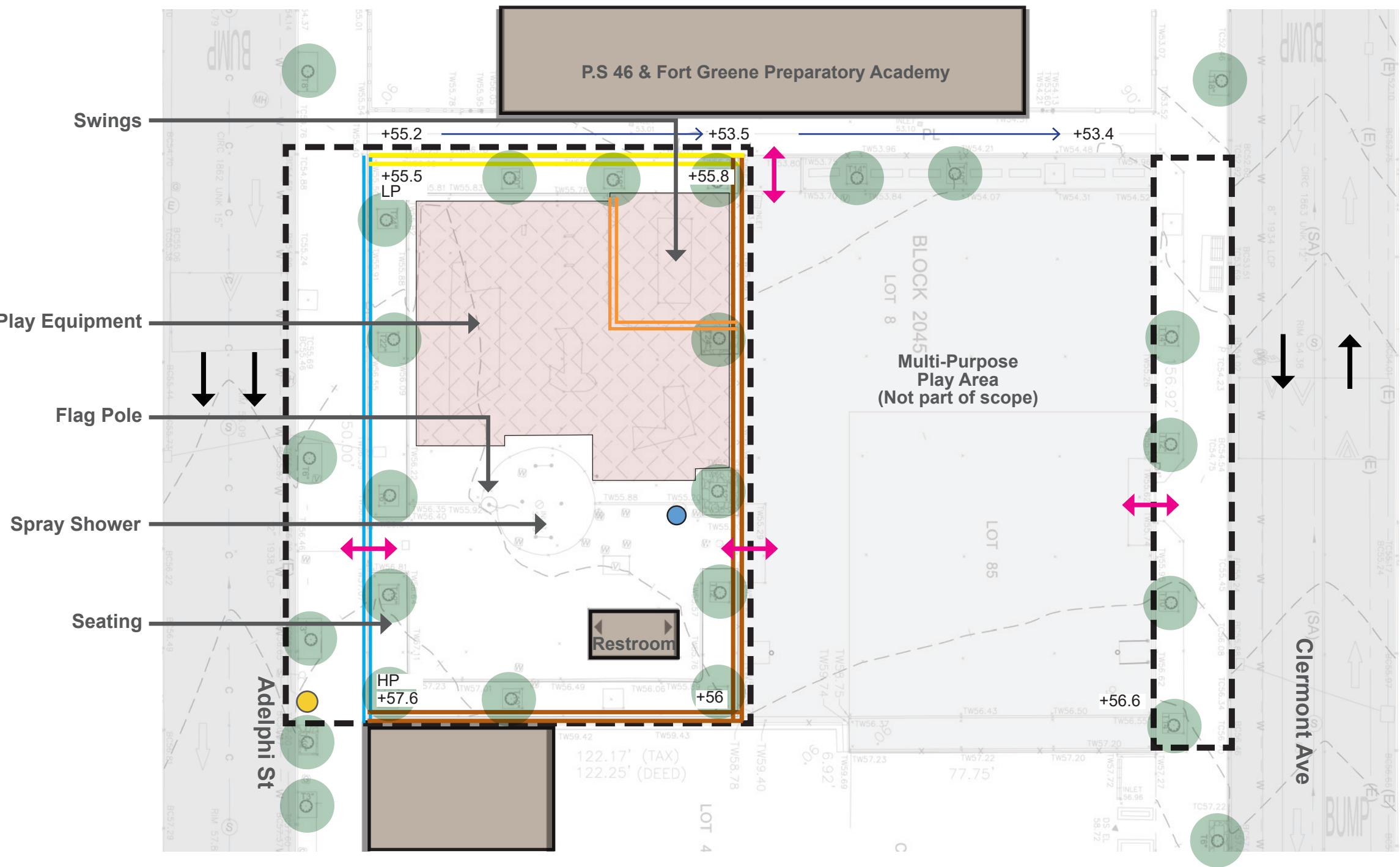


NYC Parks

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Oracle Playground | Neighborhood Context





Legend

- Project Limit
- Park Entrance
- Play Equipment
- Building or Structure
- Asphalt Pavement
- Tree
- Light pole
- Drinking Fountain
- Traffic
- 7' Steel Fence
- 4' Steel Fence
- 16' HT. Chain-link Fence
- 8' HT. Chain-link Fence

Park Tree Canopy Information

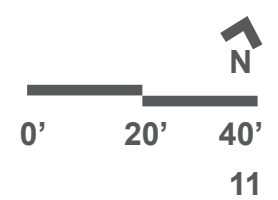
45.4% Parkland Canopy Cover
8.3% Canopy Change 2010-2017

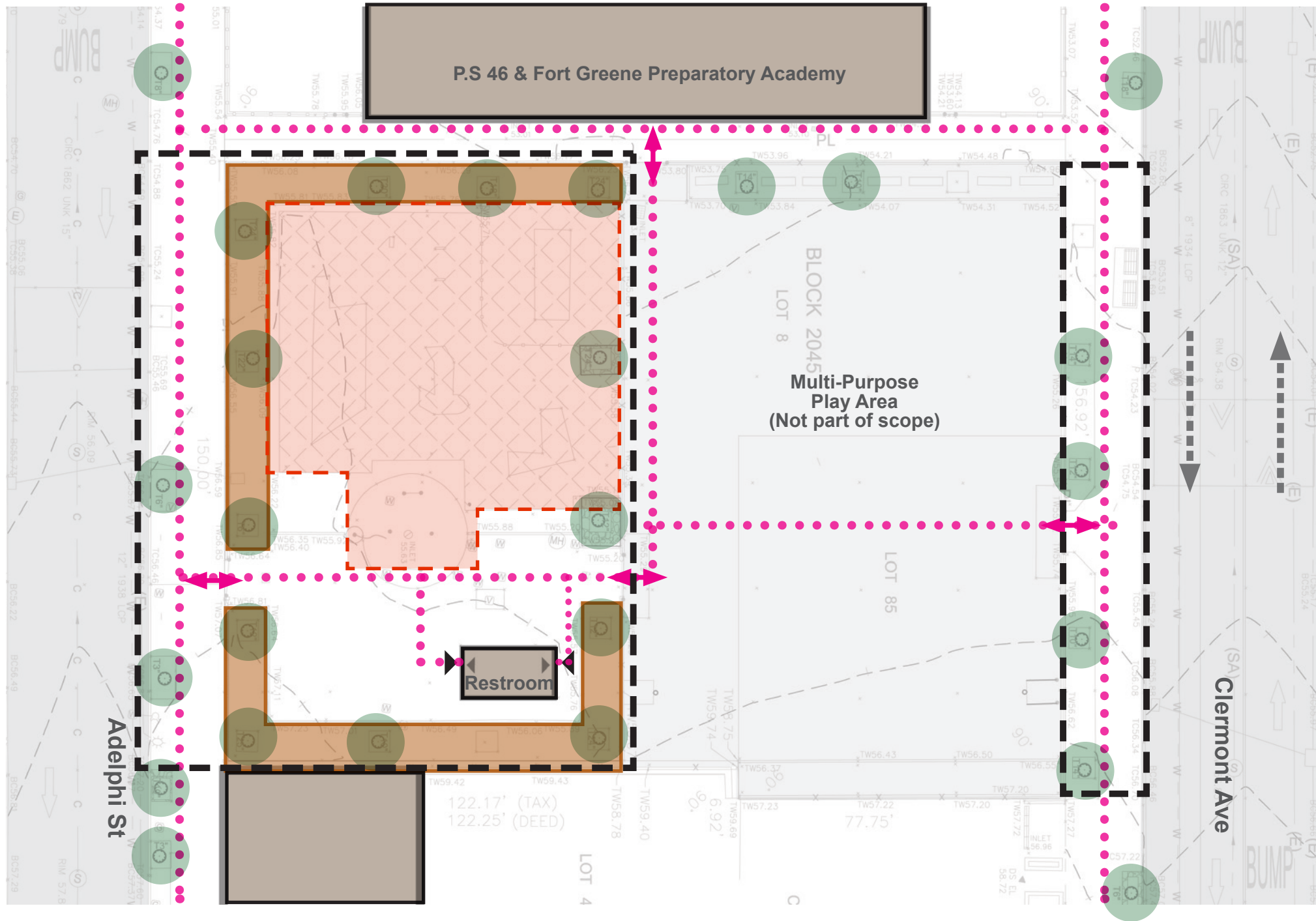
Heat Vulnerability Index

Site is not in high HVI area.



MARVEL Oracle Playground | Existing Conditions





Legend

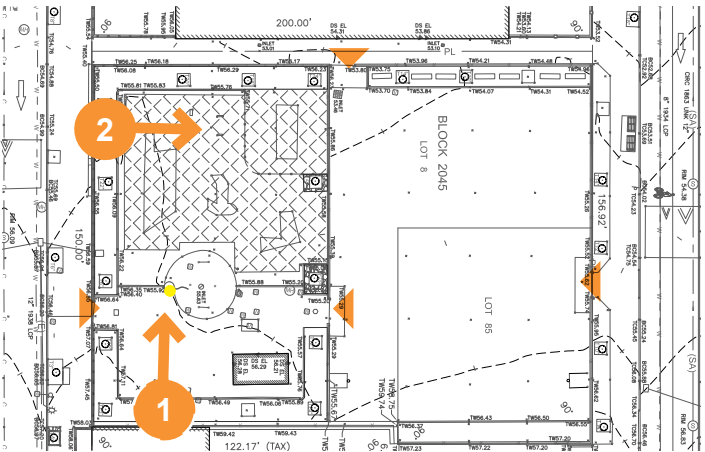
- Project Limit
- ↔ Park Entrance
- Pedestrian Traffic
- Heavy Vehicle Traffic
- Outdated play equipment & safety surface
- Non-ADA compliant material



1 - Flag Pole and Existing Play Equipment *With visibility of flag pole by v 46 on Clermont Ave, the flag pole in Oracle Playground will be removed.

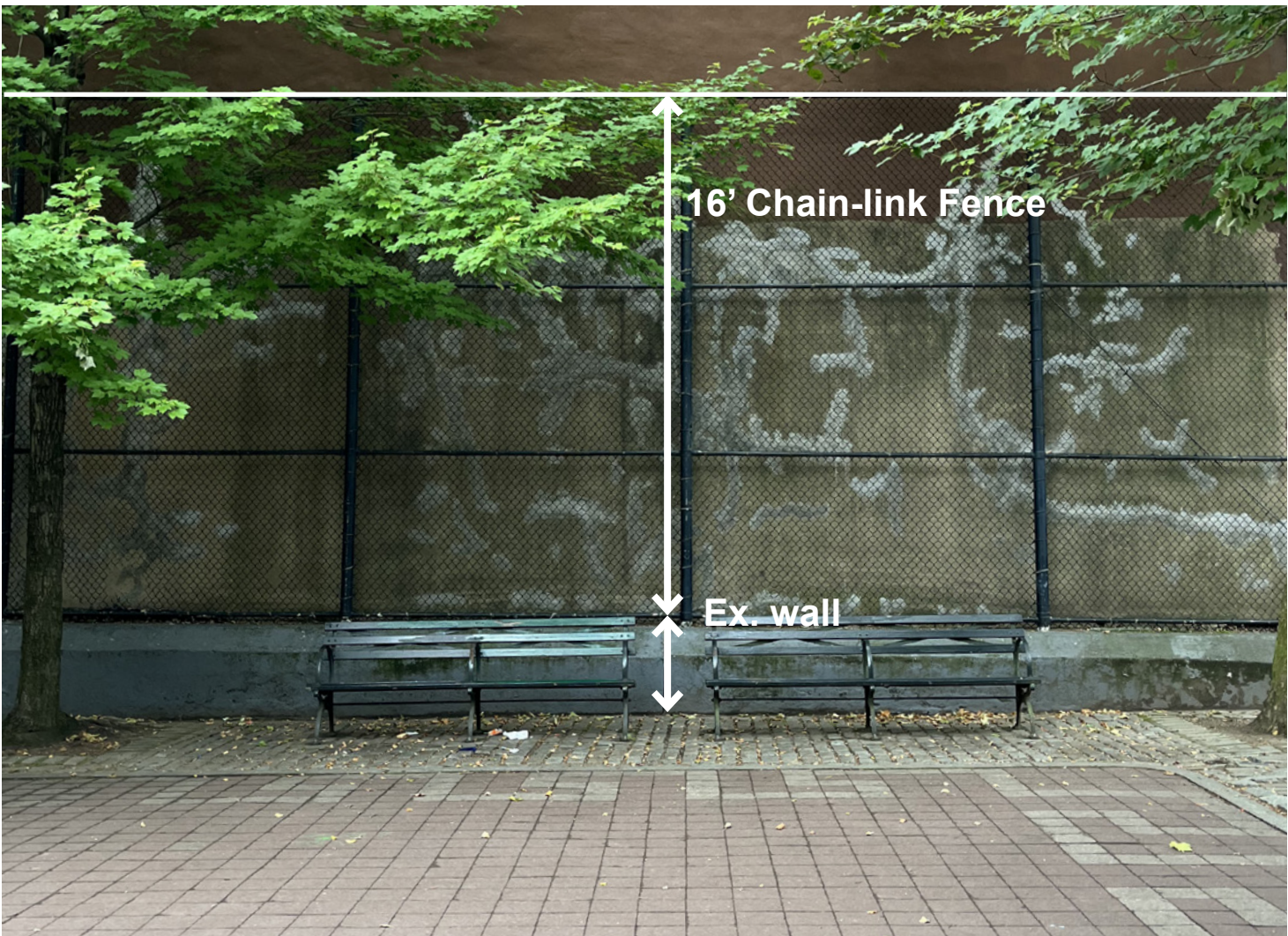


2 - Trojan Horse Sculpture
*To be salvaged and placed in 2-5 Play Area.





1 - Public Restroom Building

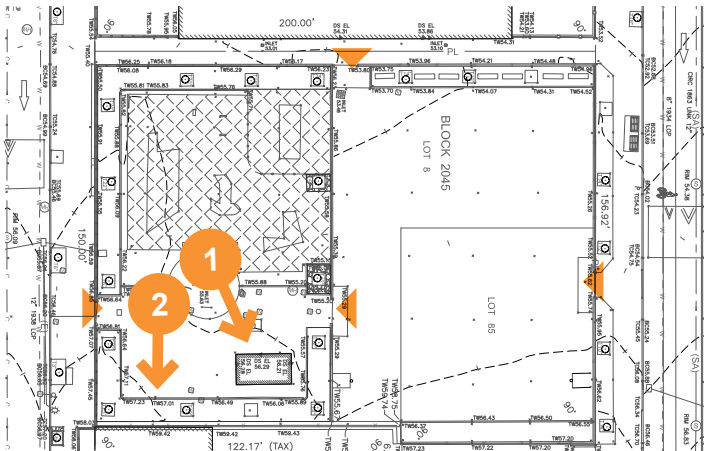


2 - Bench Along South Side



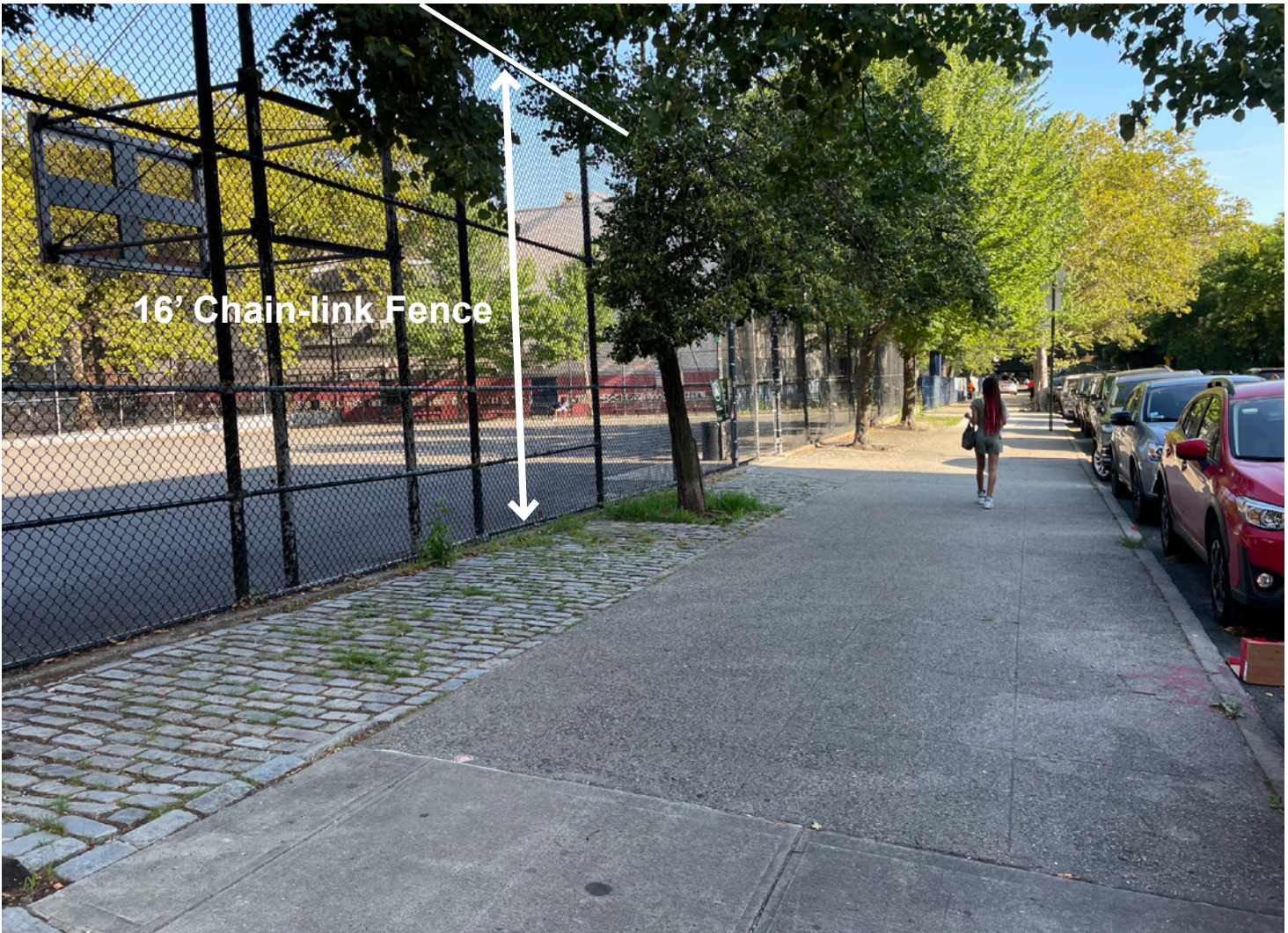
MARVEL

Oracle Playground





1 - View from Adelphi St

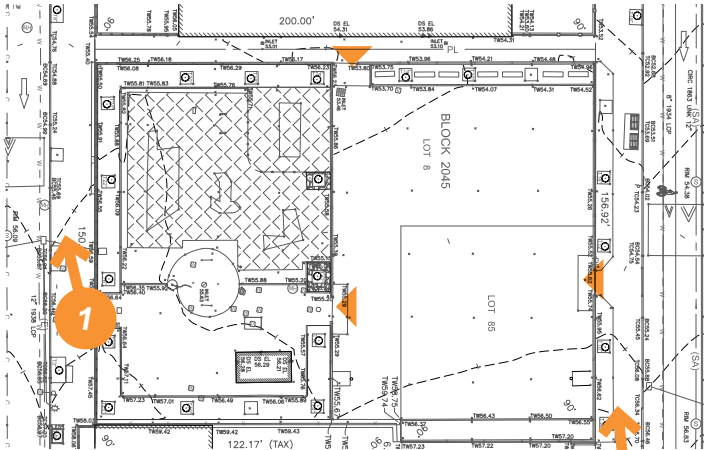


2 - View from Clermont Ave Sidewalk



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Oracle Playground | Site Photos





1 - Alley between Existing Middle school and Site

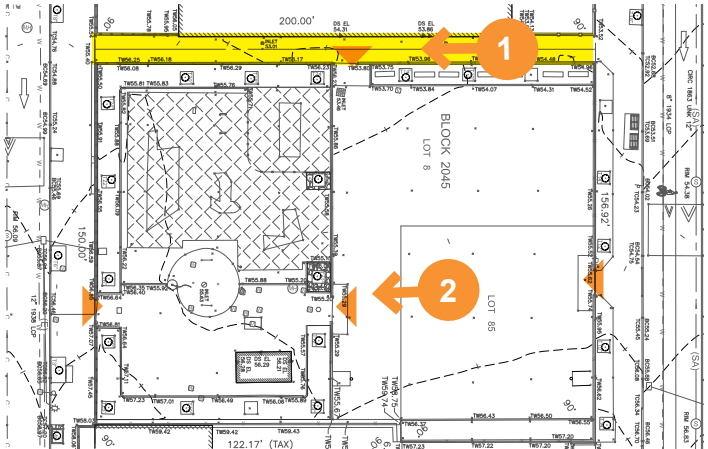


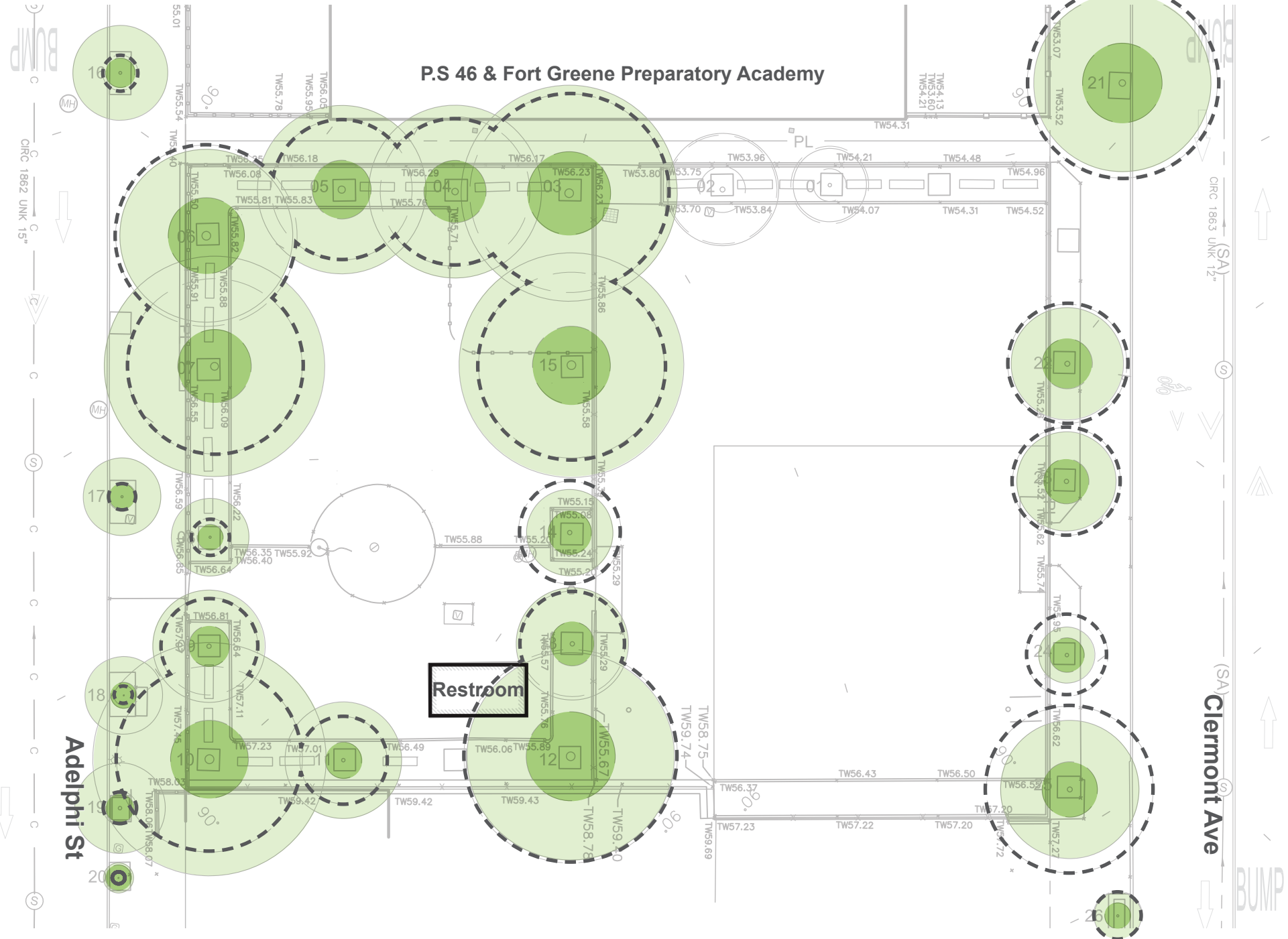
2 - Access from MPPA side to Playground



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Oracle Playground | Site Photos



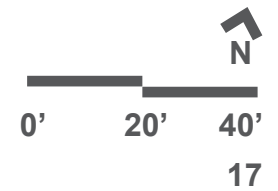


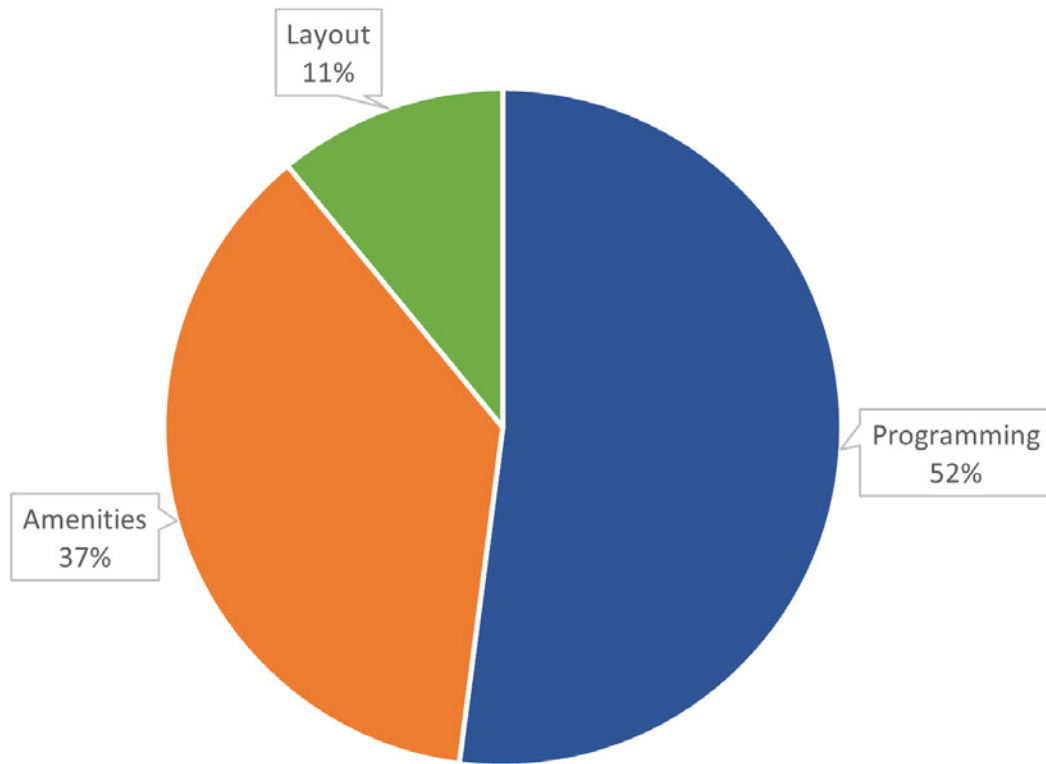
Legend

- 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



MARVEL Oracle Playground | Tree Inventory





Programming

Challenging Play
Diverse Play
Inclusive Play
Seating for people wo/ kids
Adult fitness
Track element

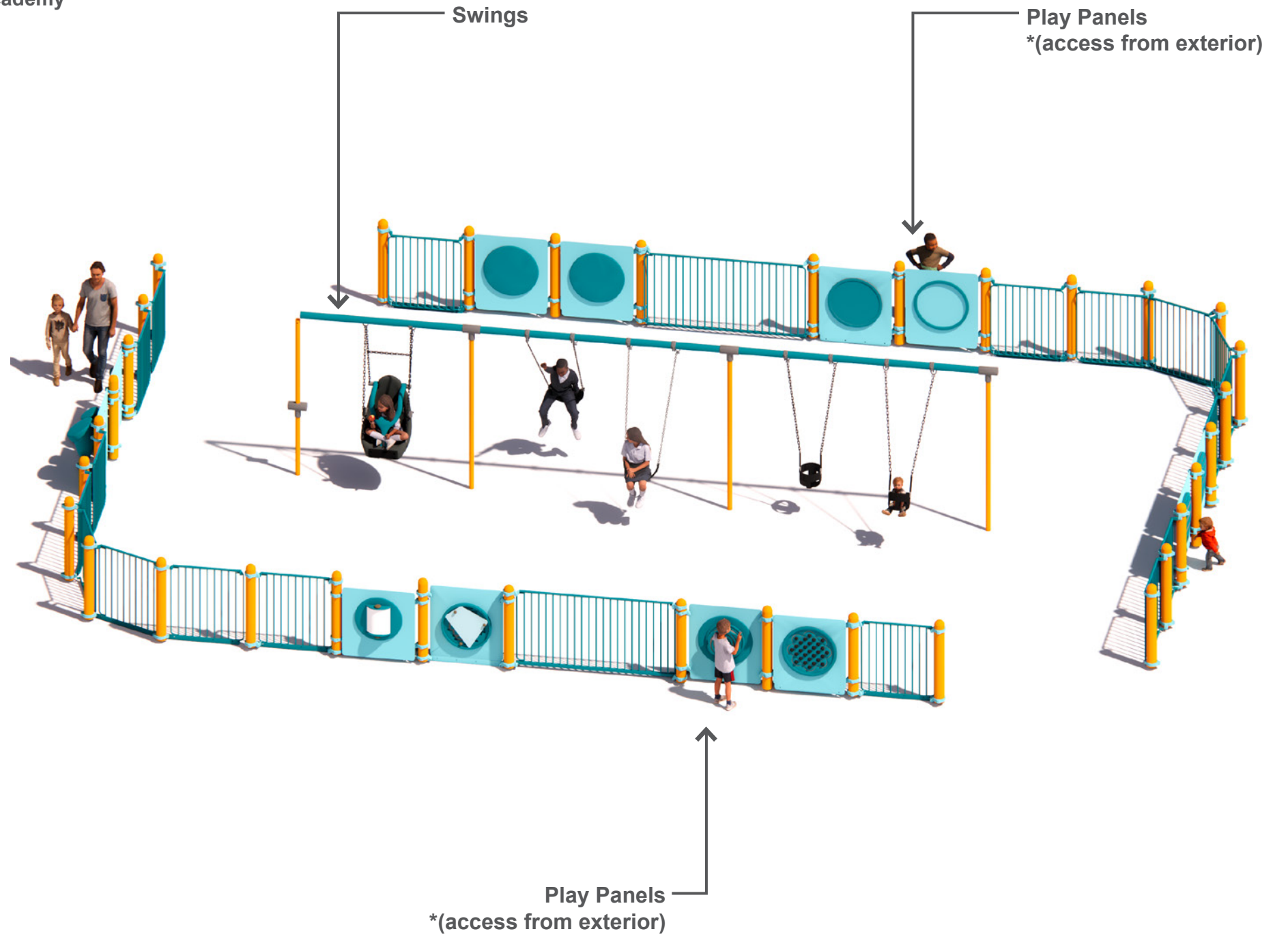
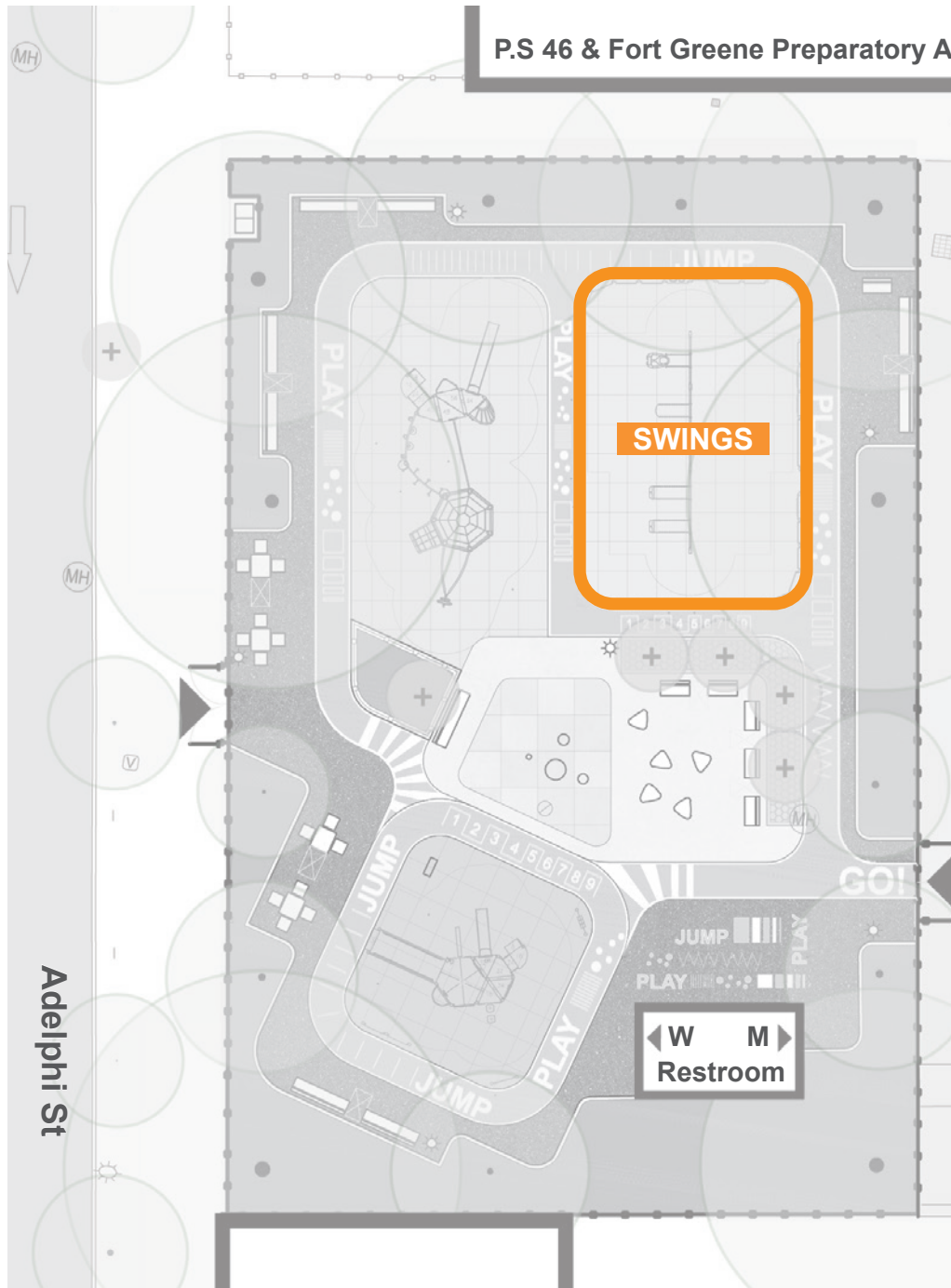
Amenities

Safety Concerns near restroom
Safety Concerns in off-school season
Protect existing planting
Increase planting/ Provide heat mitigation
Provide drinking fountain
Provide security lighting

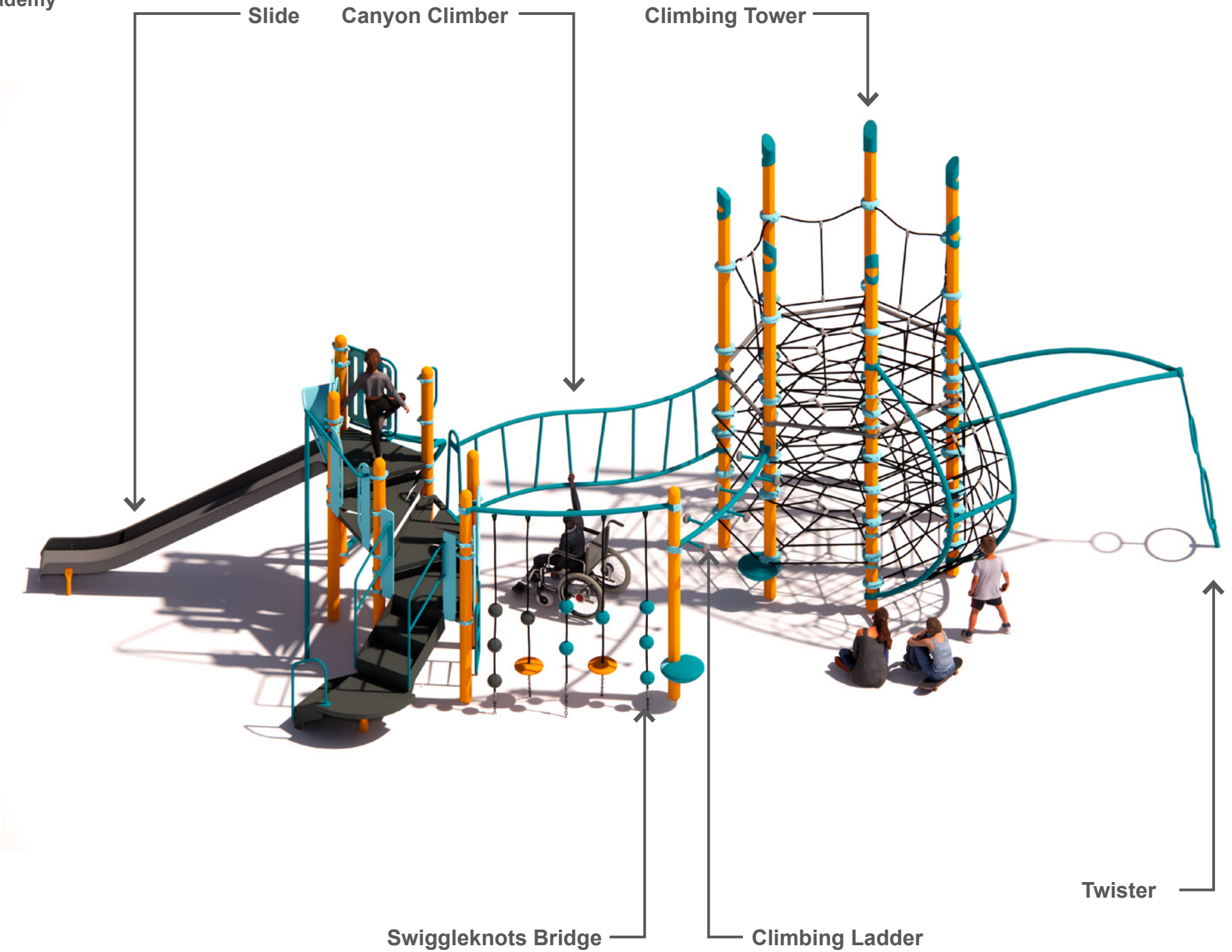
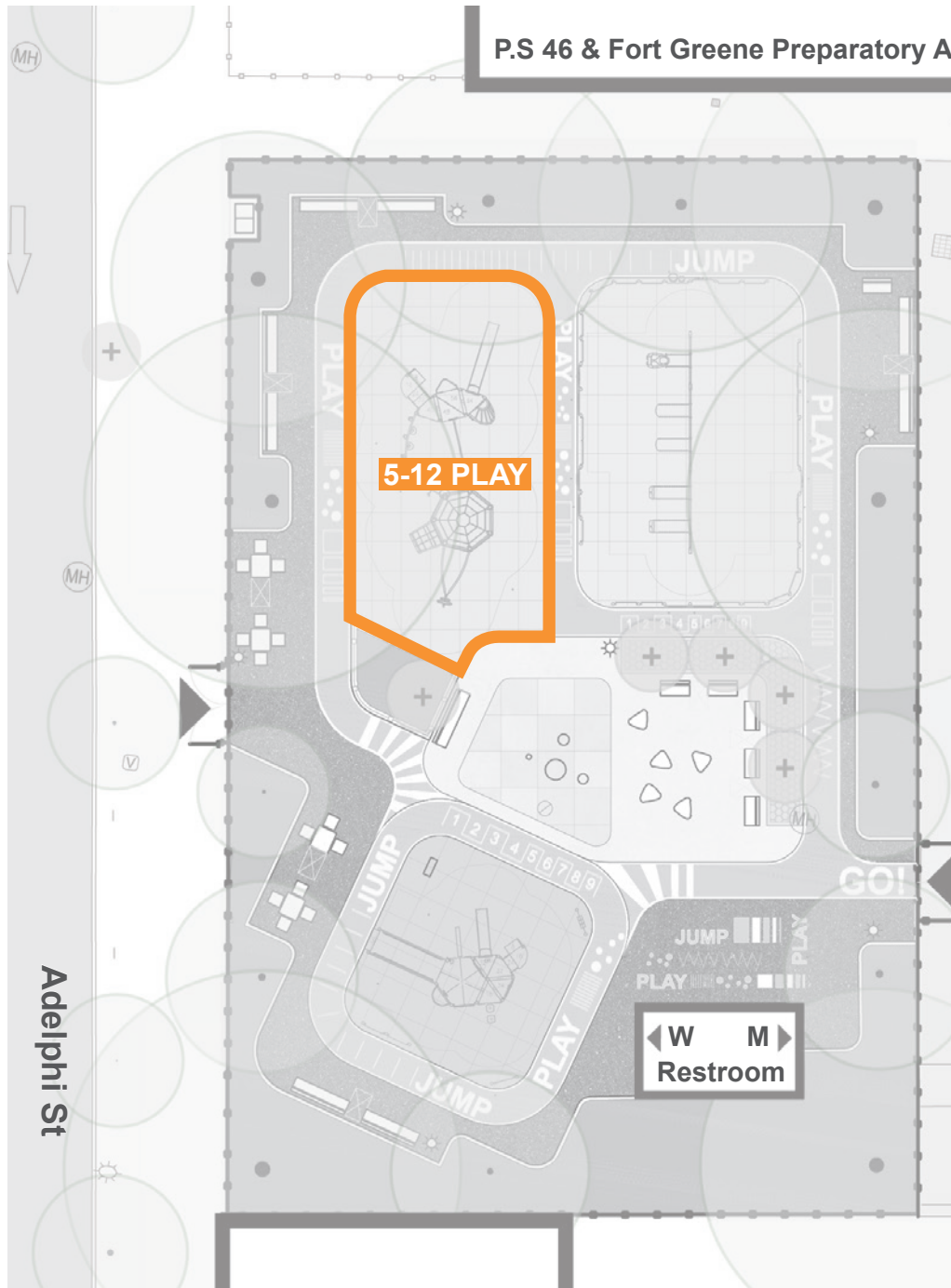
Layout

Outdoor Classroom
Connect two spaces

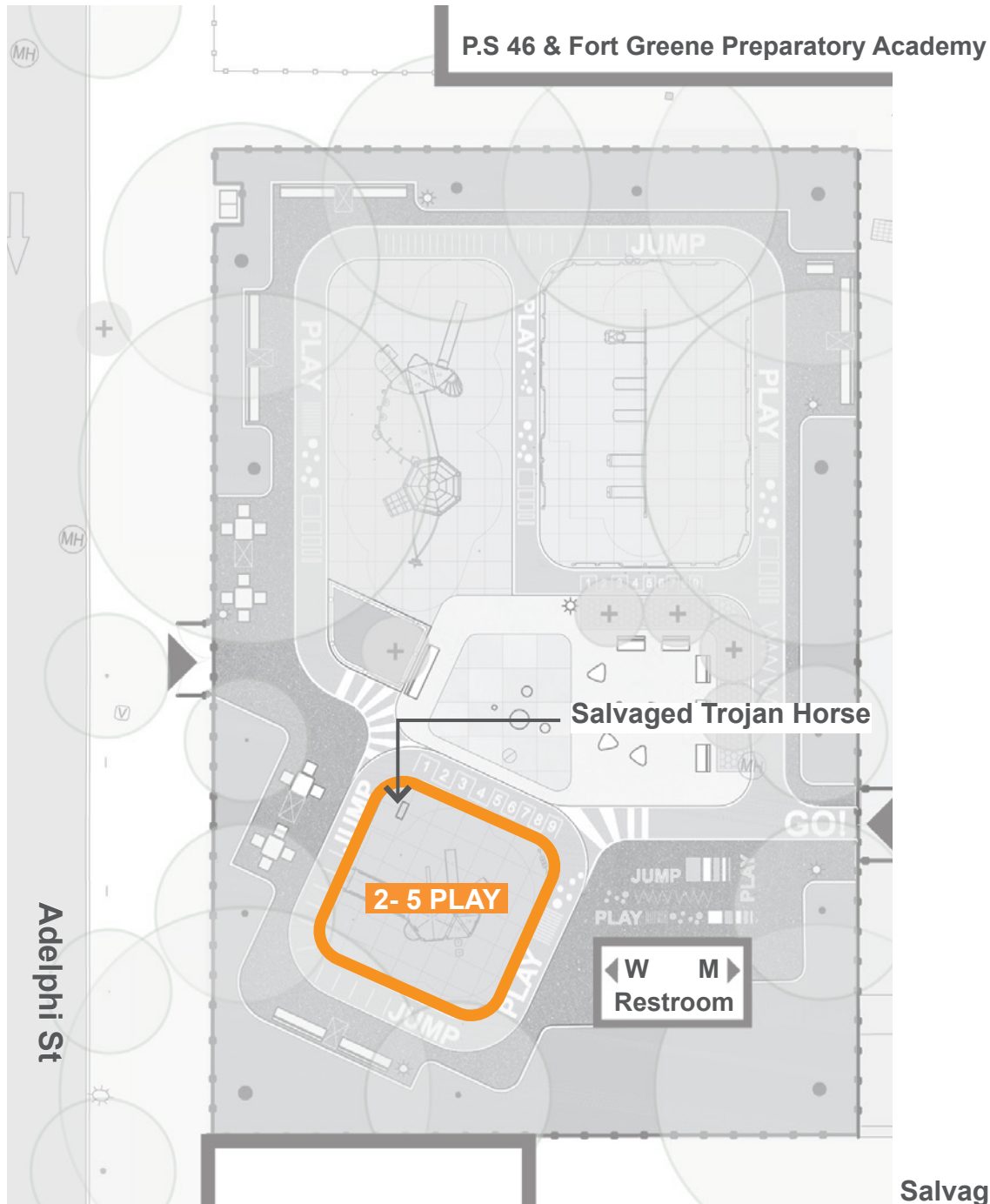
Percentage based on responses from community members presented at Community Input Meeting held on May 18th, 2023, online survey, and P.S 46 student responses.



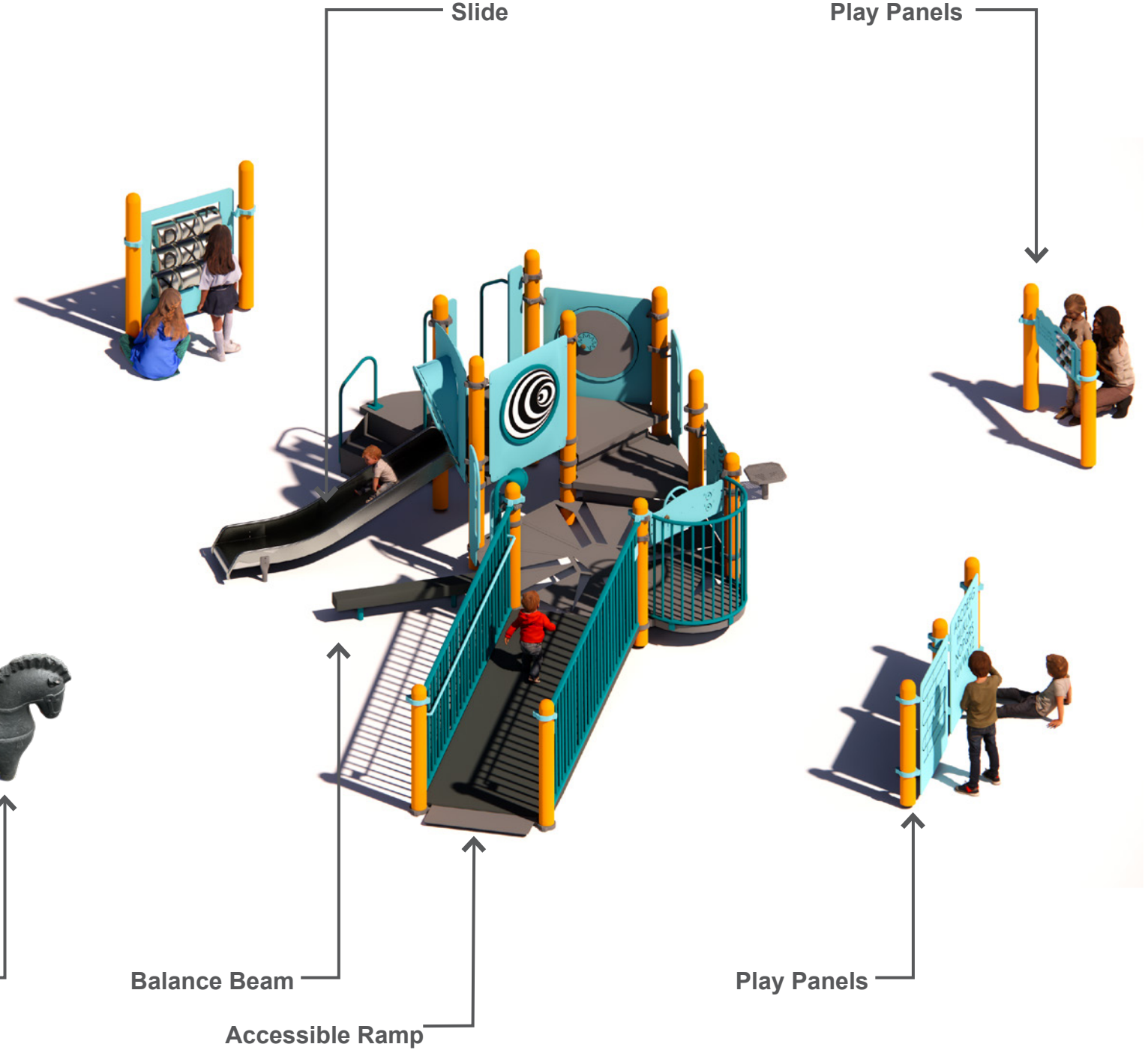
MARVEL Oracle Playground | Play Equipment: Swings w/ Play Panel



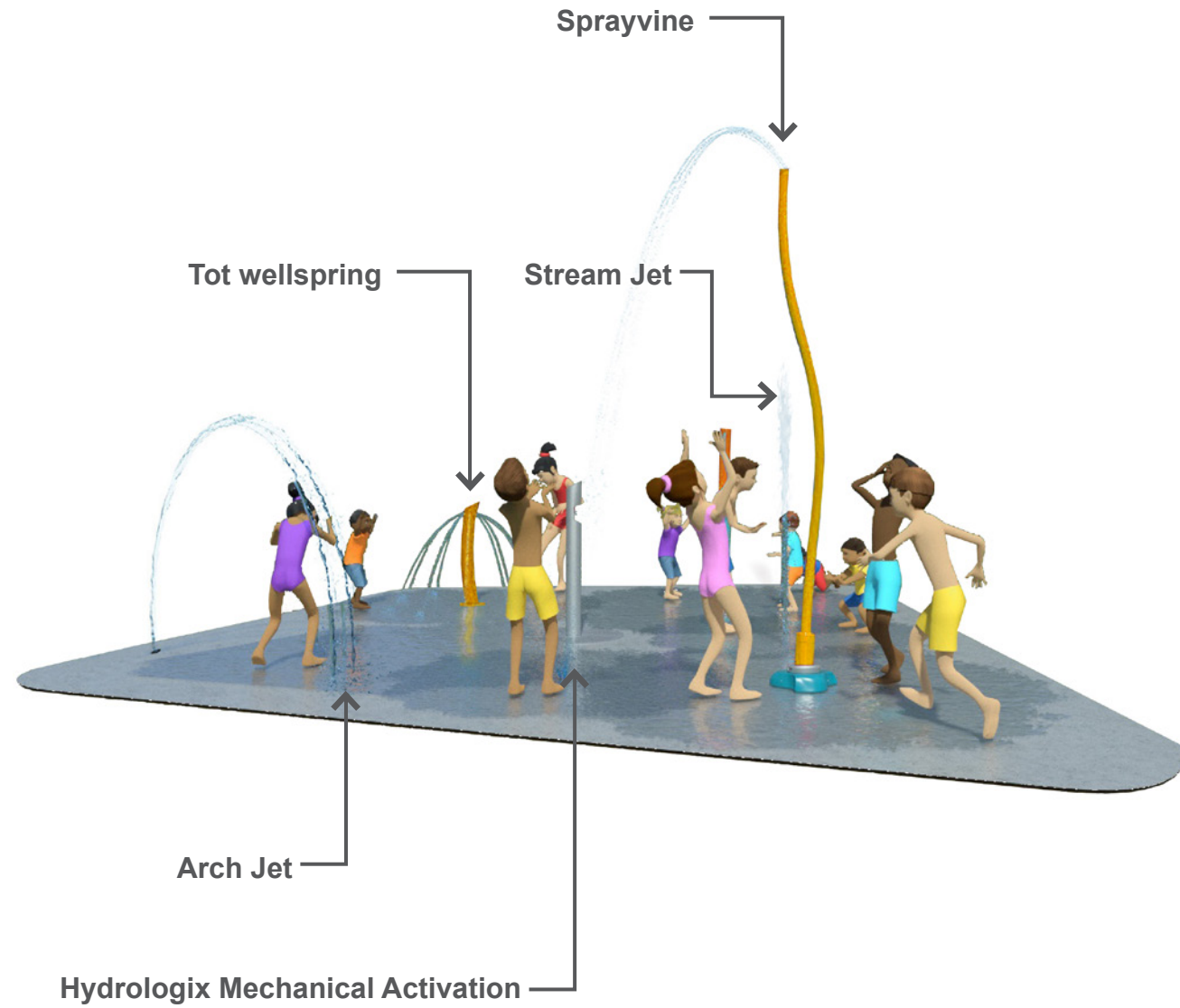
MARVEL Oracle Playground | Play Equipment: 5 -12 Play



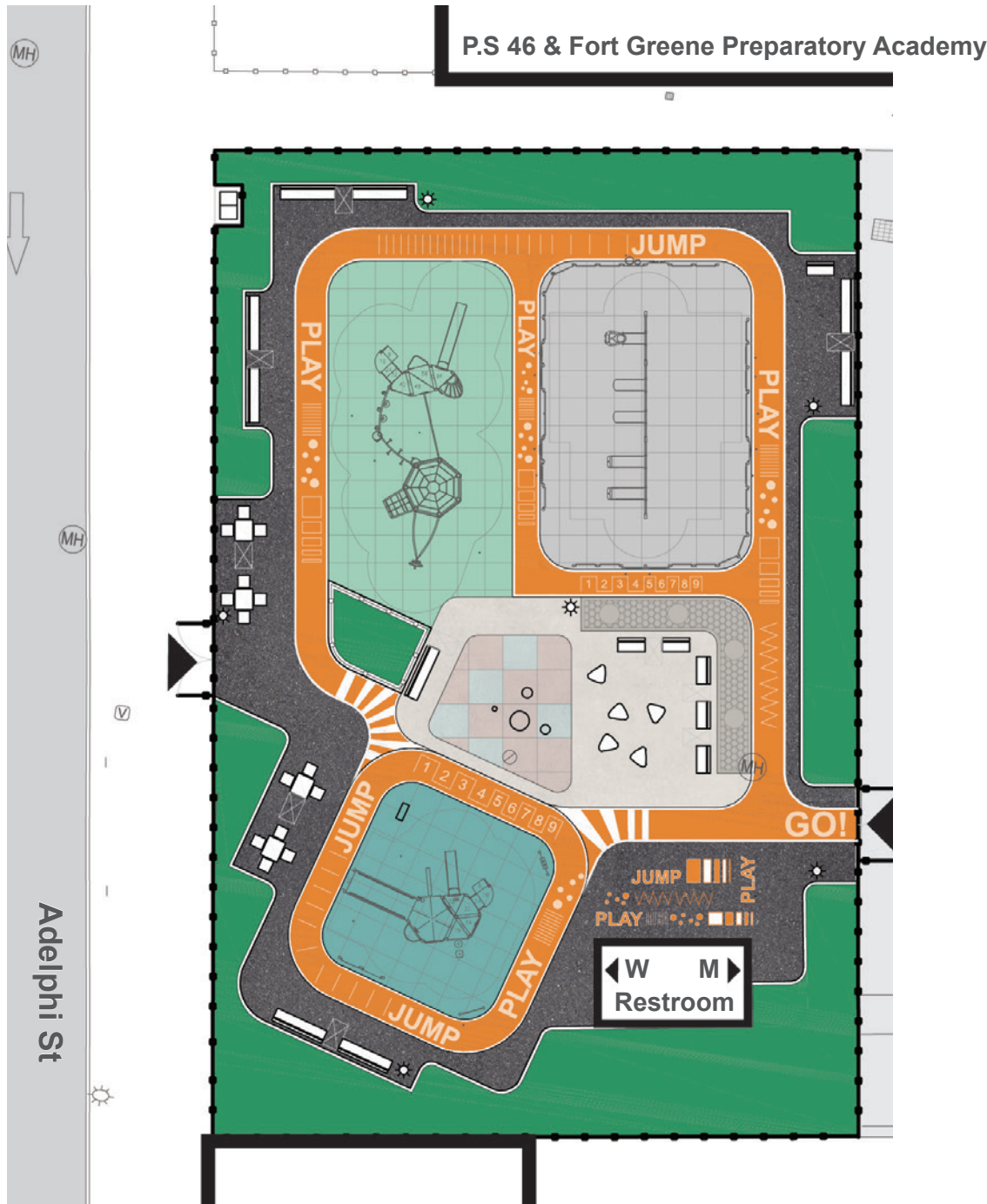
Salvaged Trojan Horse



MARVEL Oracle Playground | Play Equipment: 2 - 5 Play



Mechanical Activation Device

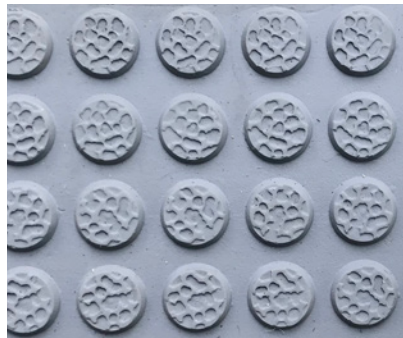


Play Path

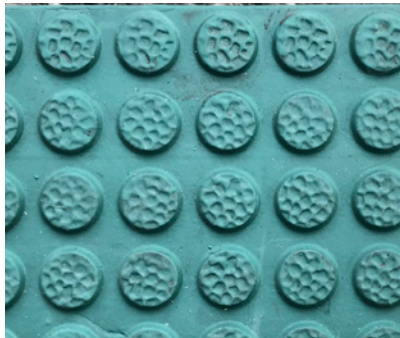
Location: Play Path
 Color/Finish: Color Seal Coat / Pumpkin & White
 Mfr: Advanced Polymer Technology



#12

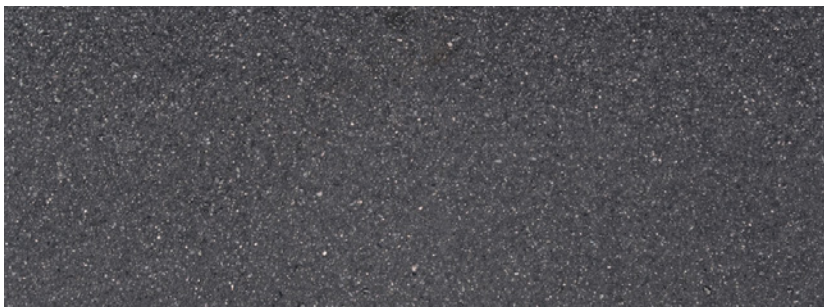


Standard Gray



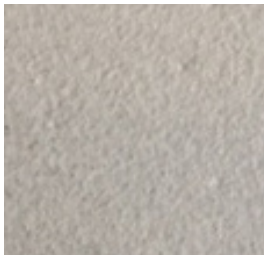
Standard Green Safety Surface

Location: Play Areas
 Color/Finish: #12, Standard Gray, Standard Green
 Mfr: Mitchell Rubber Products

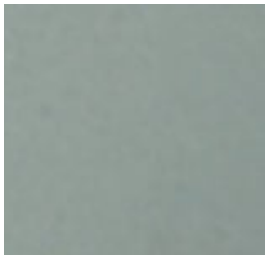


Asphalt Pavement

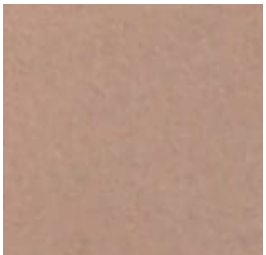
Location: Circulation and Seating Area
 Color/Finish: Standard



Carmel



Euro Blue



Plum

Integrated Colored Concrete

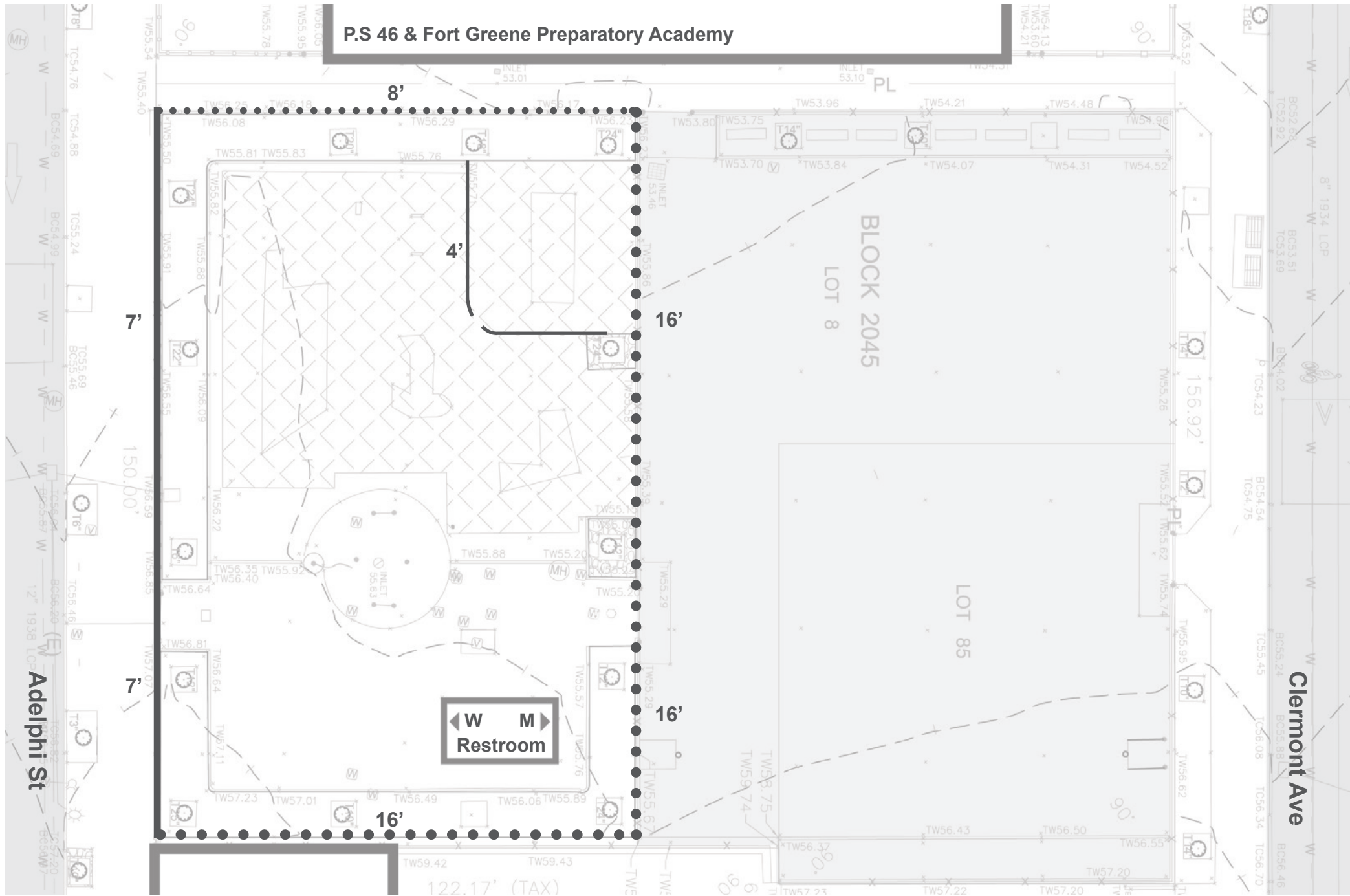
Location: Spray Shower and Outdoor Classroom
 Color/Finish: Carmel, Euro Blue, Plum
 Mfr: Davis Colors



Permeable Pavers under Trees

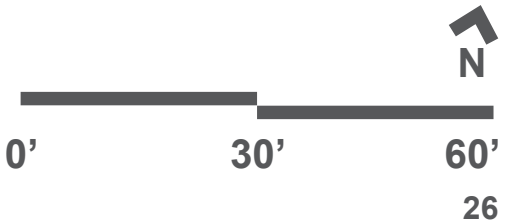
Location: Proposed Tree Planting Area
 Color/Finish: Light Grey
 Mfr: Wausau

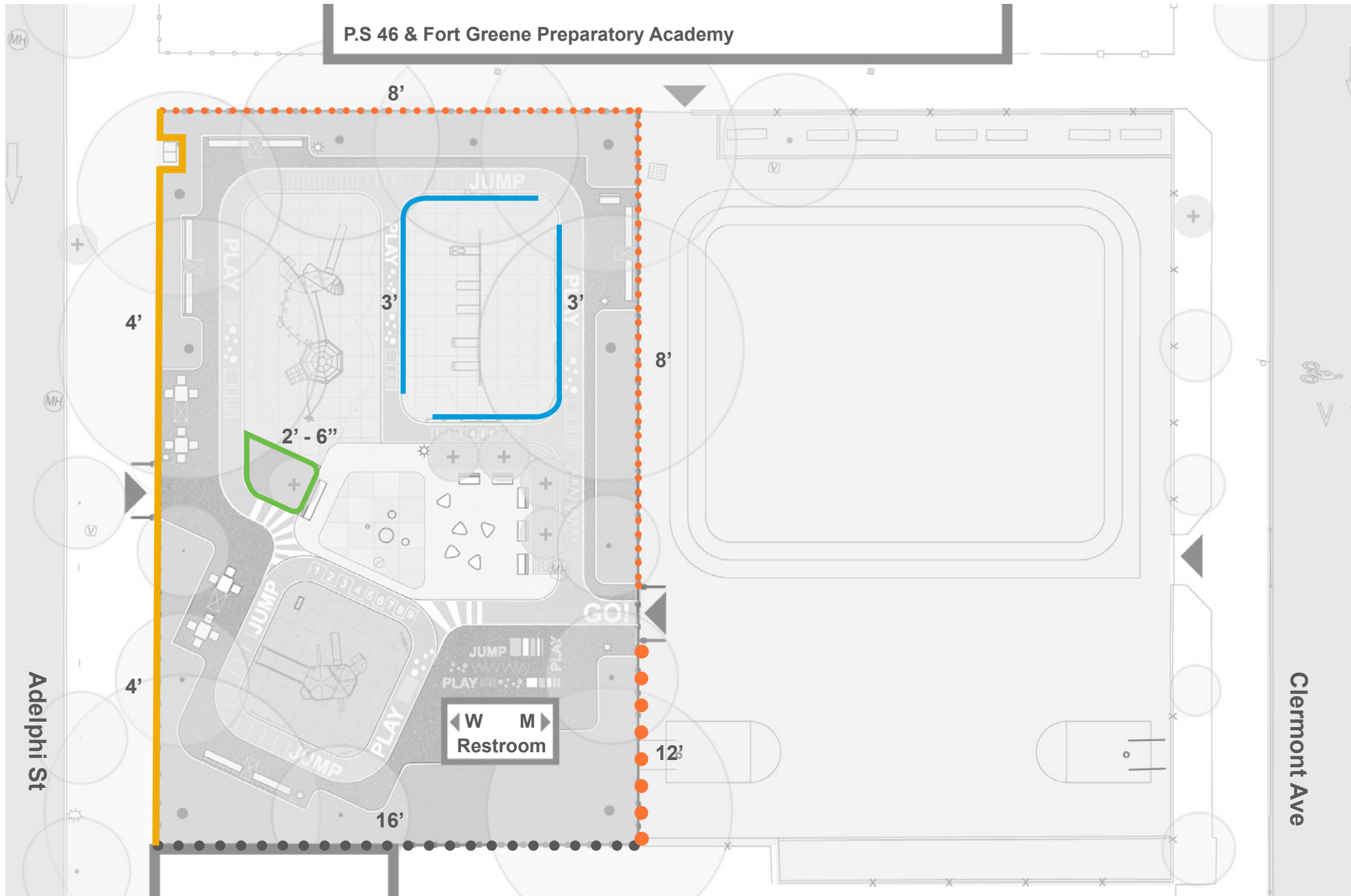




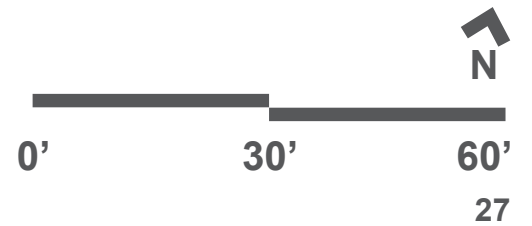
Legend

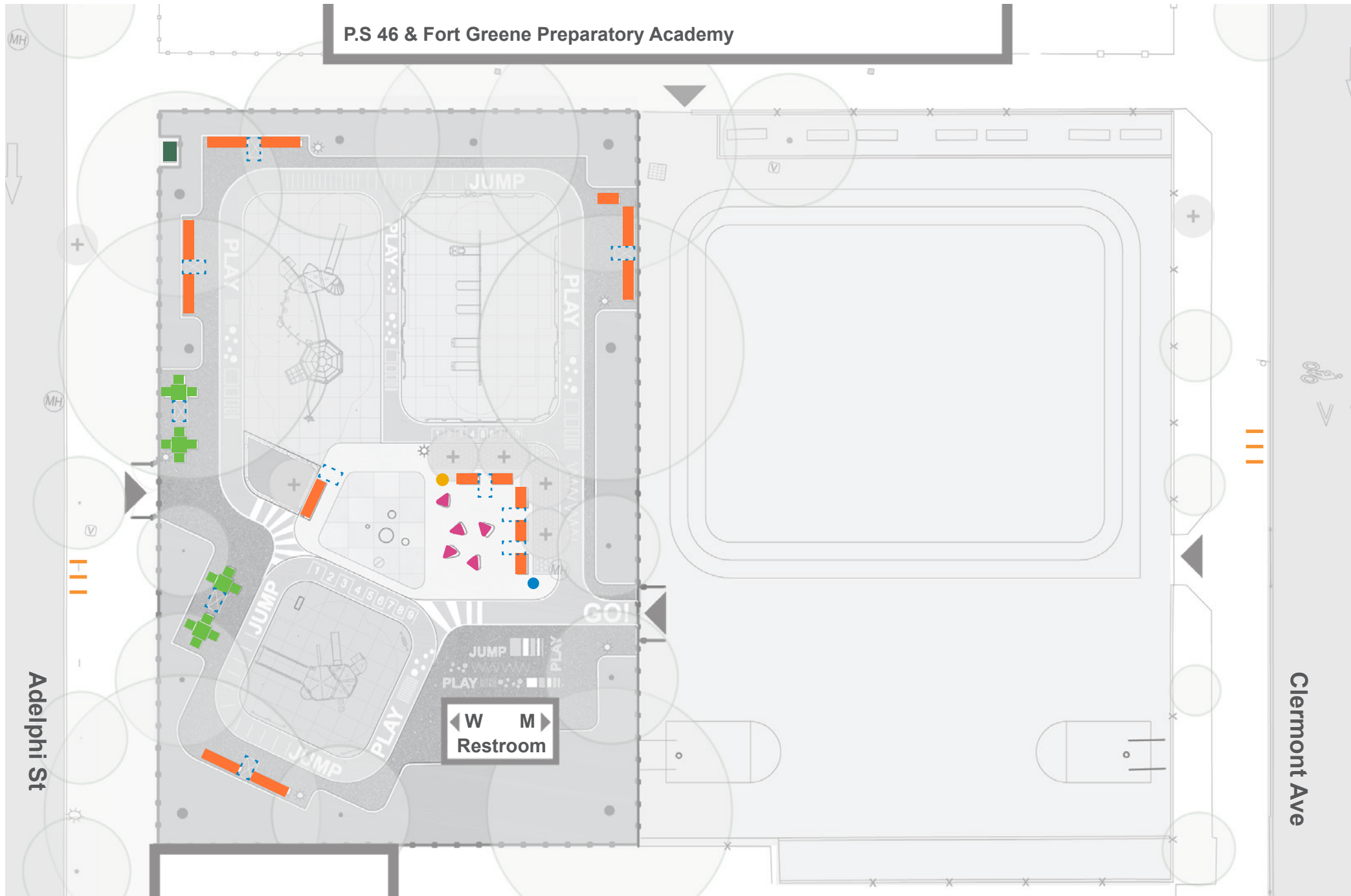
- EXISTING FENCES**
- 16F CLF** (thick dotted line)
- 8F CLF** (thin dotted line)
- 7F STEEL** (solid line)
- 4F STEEL** (solid line)



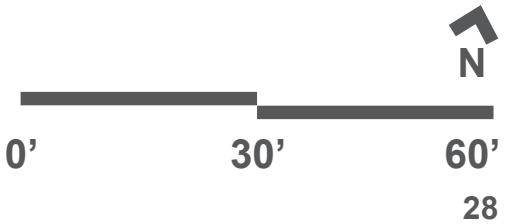


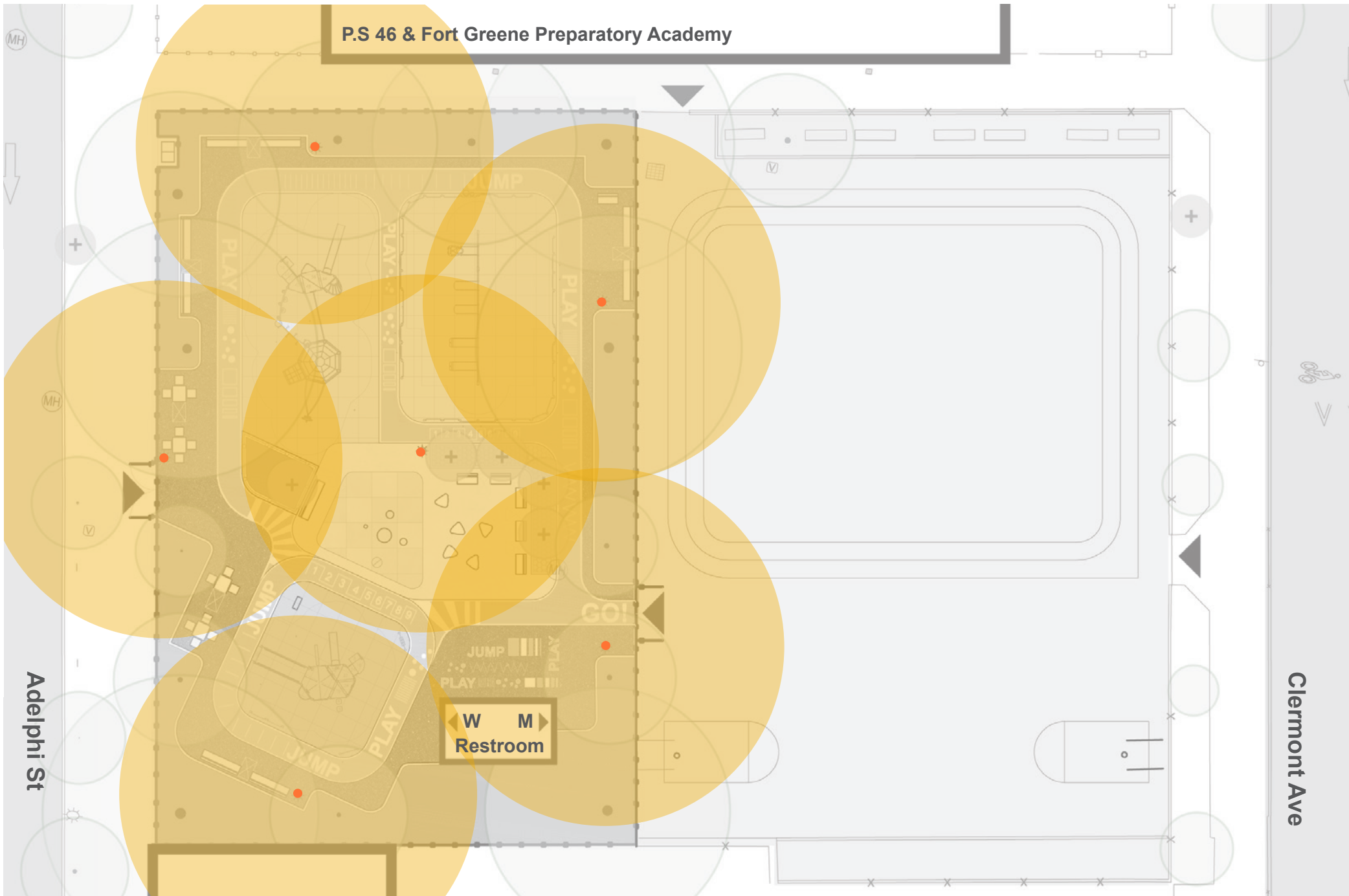
MARVEL Oracle Playground | Fence Diagram





- ### Legend
- 8' Bench
 - 4' Bench
 - Game Tables w/ Type E chair
 - Pebble Seat
 - Trash Bin
 - Drinking Fountain
 - Companion Seating
 - Bicycle Rack
 - Trash Enclosure





Legend

- Light Output
(35' Radius)
- Flushing Meadows
Luminaire and Pole





Type A Bench, 1939 World's Fair

Location: Park Perimeter, Spray Shower
 Color/Finish: Black painted support and RPL
 Mfr: Kenneth Lynch & Sons



Type E Chairs

Location: Near Adelphi St Entrance
 Color/Finish: Sapphire
 Mfr: Keystone Ridge Designs



Game Tables

Location: Near Adelphi St Entrance
 Color/Finish: Natural concrete w/ graffiti resistant coating, galvanized and painted steel
 Mfr: Kenneth Lynch & Sons



Pebble Seat

Location: Outdoor Classroom
 Color/Finish: Natural
 Mfr: QCP





Bottle Filler w/ Hi-Lo Drinking Fountain

Location: Outdoor Classroom
Color/Finish: Black
Mfr: Most Dependable Fountains, Inc



Public Space Receptacle Bins (Trash Only)

Location: Outdoor Classroom
Color/Finish: Black
Mfr: Maglin Site Furniture Inc.



Bicycle Rack

Location: Adelphi St Sidewalk
Color/Finish: Standard



Flushing Meadows Luminaire and Pole

Location: Park Perimeter, Spray Shower
Color/Finish: Black
Mfr: Magniflood





Serviceberry (Tree)
Amelanchier canadensis



Carolina Silverbell
Halesia carolina



Mountain Laurel
Kalmia latifolia



Great Laurel
Rhododendron maximum



Cherry Laurel
Prunus laurocerasus 'Otto Luyken'



Summersweet
Clethra alnifolia 'Ruby Spice'



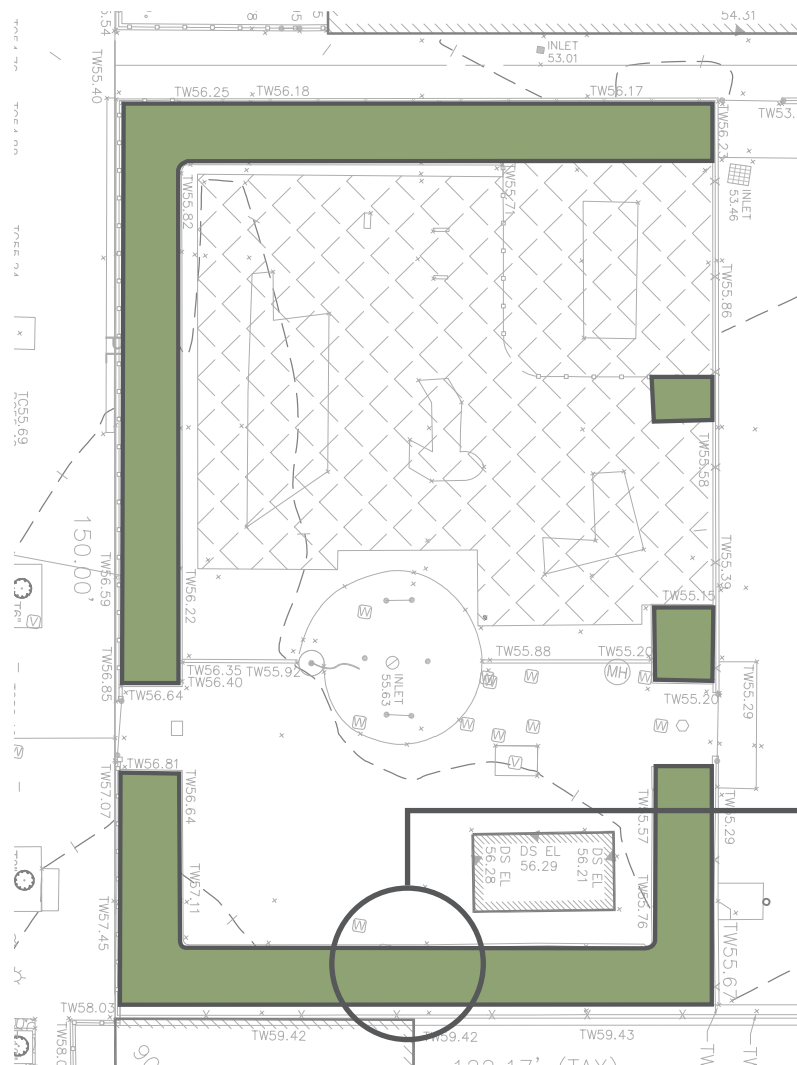
Hairy Alumroot
Heuchera villosa



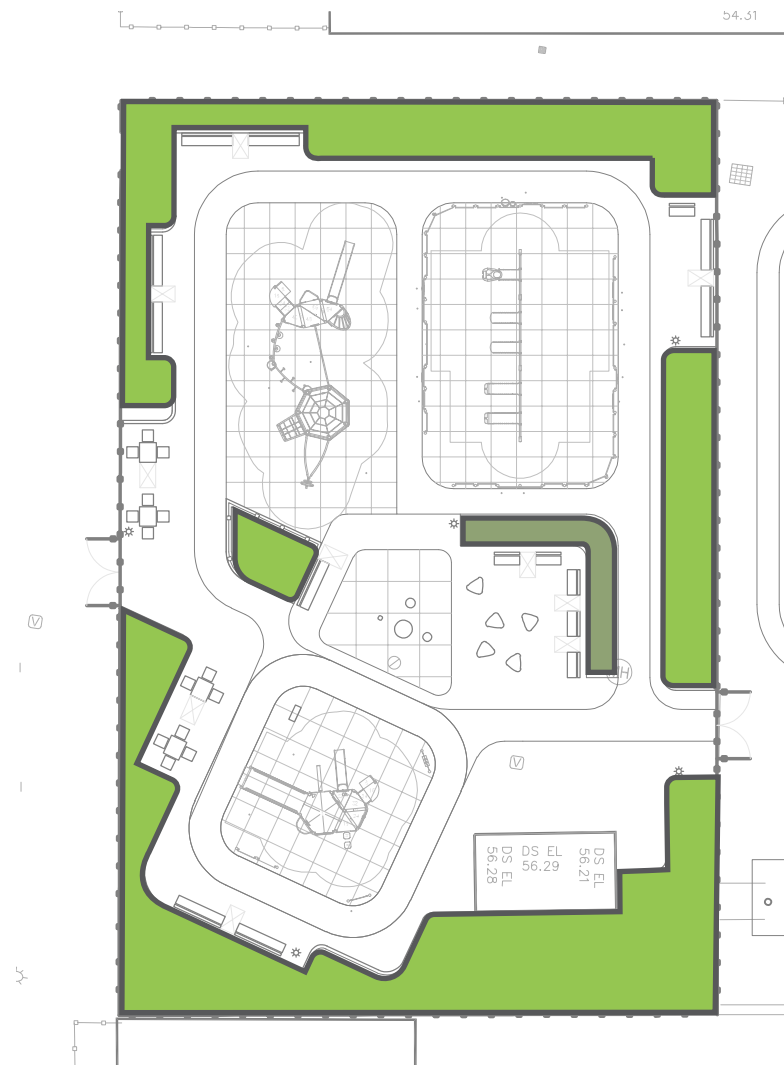
Lilyturf
Liriope spicata



Allegheny Spurge
Pachysandra procumbens



Existing Permeability: 22%



Proposed Permeability: 24%

LEGEND

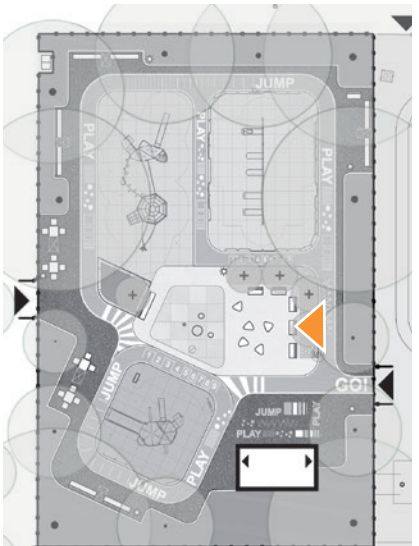
- PLANT BED
- PERMEABLE PAVER AND TREE PITS

SUSTAINABLE PRACTICES

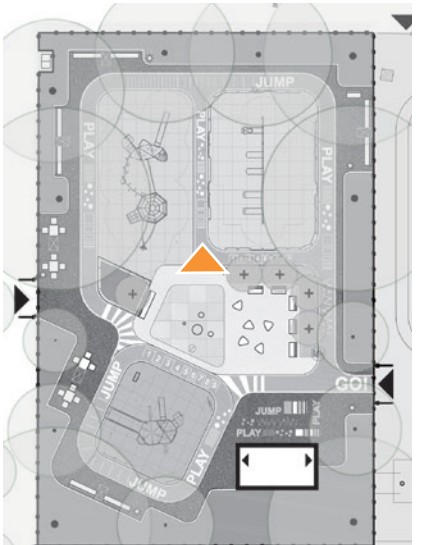
- Increase permeable surfaces
- Reduce storm water runoff with bioswales
- Balance cut and fill
- Use recycled content material
- Improve tree health and growing conditions
- Use site appropriate resilient plant material



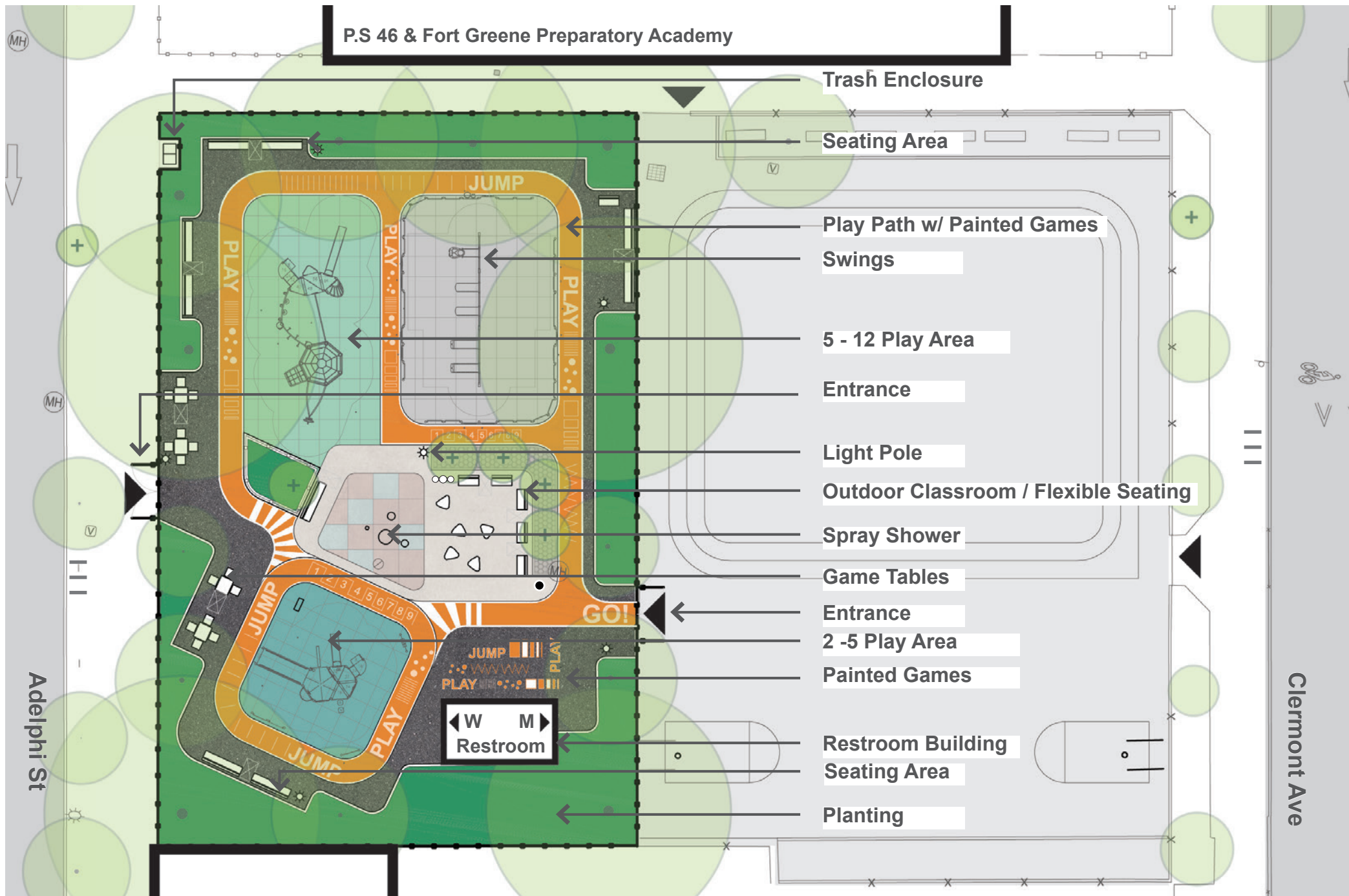
MARVEL Oracle Playground | View from seating area towards 5-12 Play



MARVEL Oracle Playground | View towards Outdoor Classroom and Spray Shower



MARVEL Oracle Playground | View towards 5-12 Play and Swings



Legend

- Asphalt
- Safety Surface
Standard Green, #12, Standard Grey
- Integrated Color Concrete
Carmel, Euro Blue, Plum
- Permeable Paver
- Color Seal Coat
Pumpkin, White
- Planting
- Bench
- Game Tables and Chairs
- Pebble Seat
- Bottle Filler
w/ Drinking fountain
- Trash Bin
- Light Pole
- Bike Racks
- Proposed Tree



MARVEL Oracle Playground | Schematic Plan

