



**Parks**

# Ferry Point Park New Ferry Landing and Upland Improvements

Ferry Point Park, Borough of the Bronx

August 10, 2020

**NYC / EDC**

**SKANSKA**

**MCLaren**  
ENGINEERING GROUP

**Nancy Owens Studio**

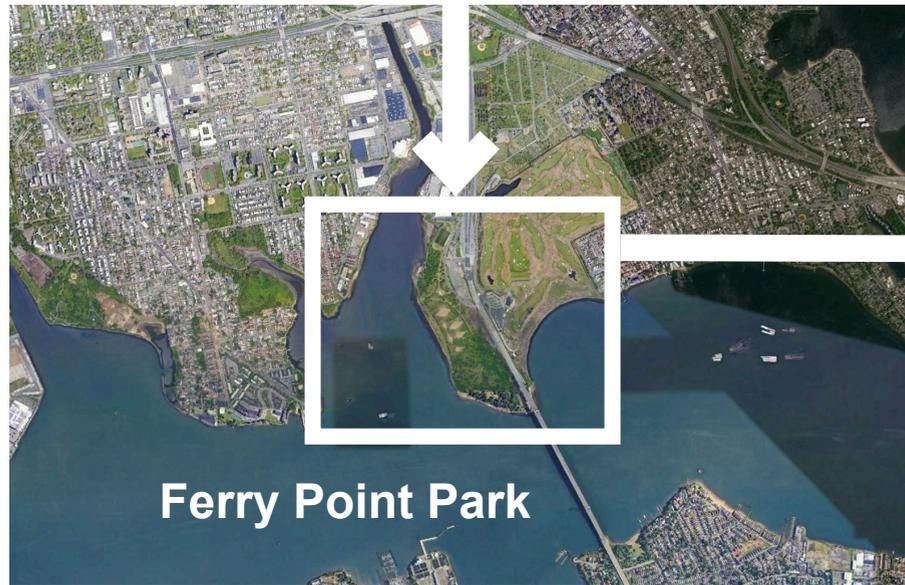
LANDSCAPE ARCHITECTURE + URBAN DESIGN PLLC



Bronx

City

6 MI



Ferry Point Park

Neighborhood

4000'



Westchester Creek

Trump Golf Links

Ferry Point Park

Hutchinson River Pkwy

East River

Site

1200'



NYC Parks

# Ferry Point Park New Ferry Landing and Upland Improvements | Project Location

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1 - Park Entrance Opposite to Parking Lot, Looking towards Whitestone Bridge Approach



2 - Park Entrance, Looking Southeast with Whitestone Bridge in Distance



KEY



3 - Asphalt Paths at Park Entry, Looking Southwest



4 - Asphalt Path Adjacent to Soccer Field, Looking South



KEY



5 - Asphalt Path, Looking South



6 - Lawn View from Path, Looking Southwest at Soccer Fields



KEY





7 - Asphalt Path, Looking Towards Water



8 - Asphalt Path Along the Waterfront



KEY





9 - Foot Path Along Waterfront



10 - Foot Path at Proposed Ferry Location



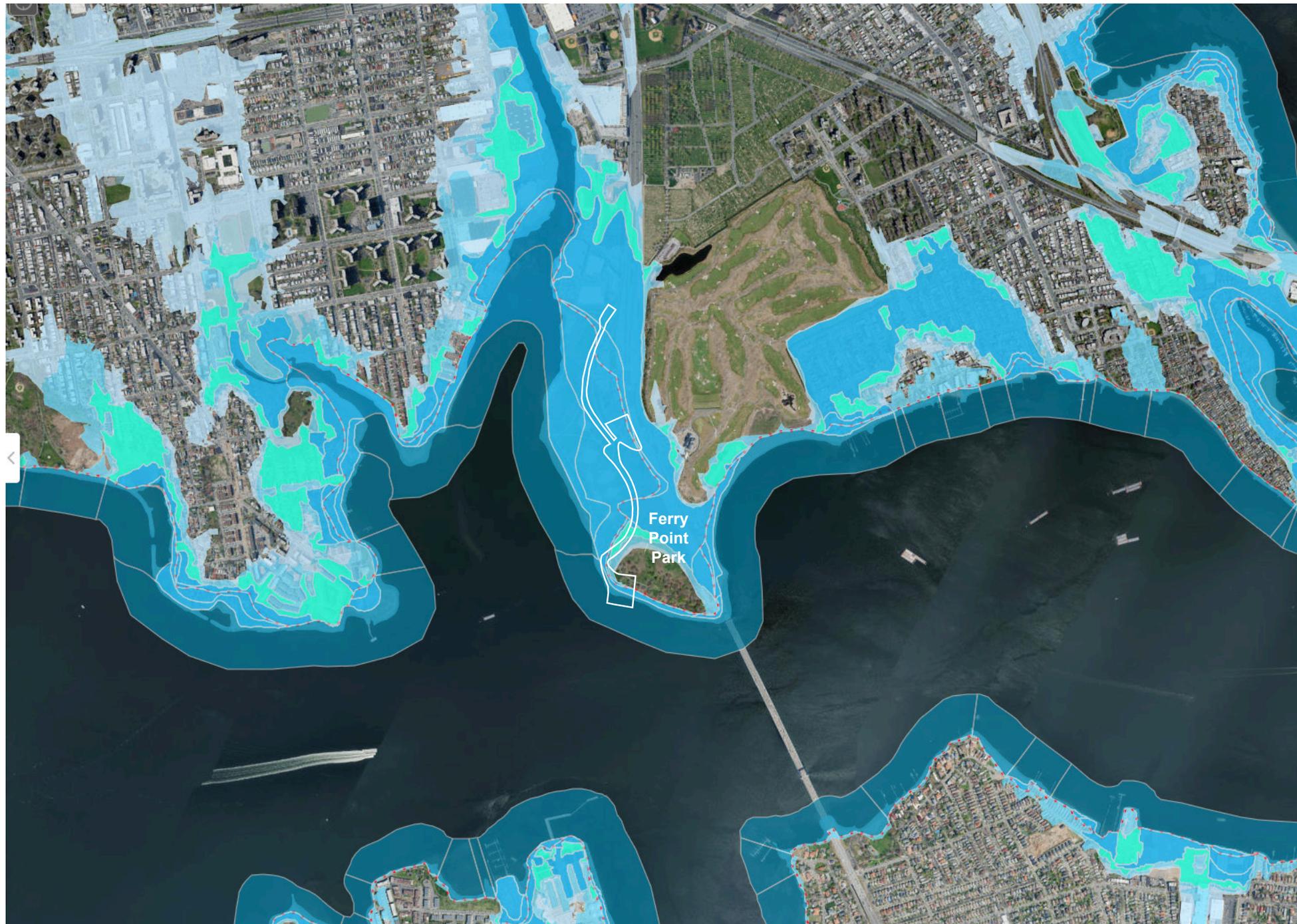
KEY



Ferry Point Park New Ferry Landing and Upland Improvements | Site Photos



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## Flood Hazard Zones

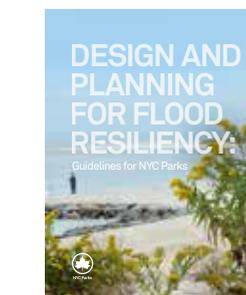
### 2015 Preliminary Flood Insurance Rate Map

- 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.

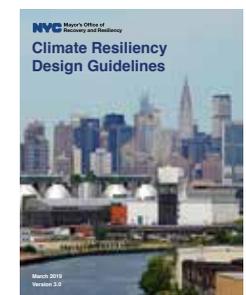
### Future Floodplain 2050s

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

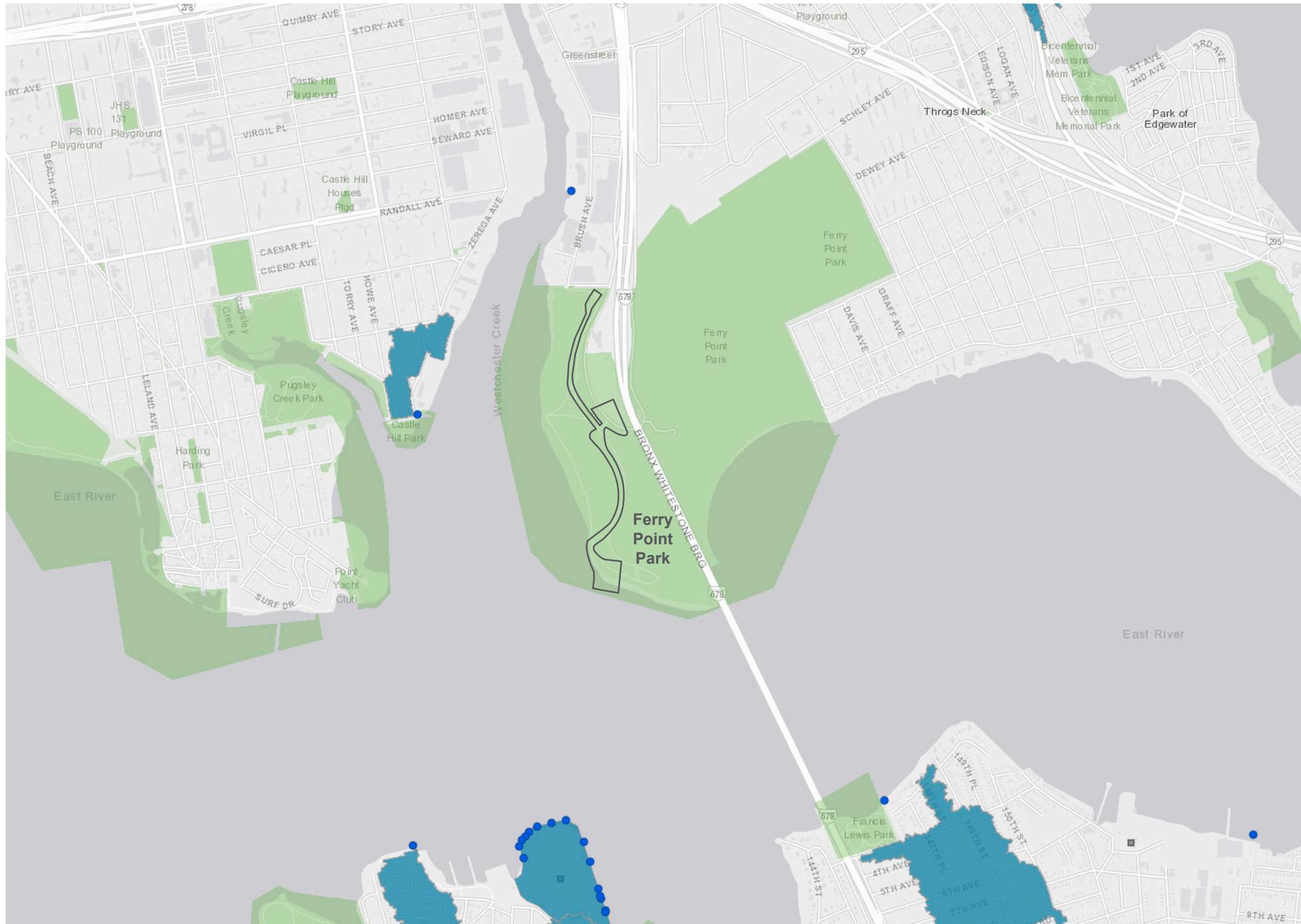
### Further Information:



NYC Parks: Design and Planning for Flood Resiliency



NYC MOR: Climate Resiliency Design Guidelines (v3.0)



## Municipal Separate Storm Sewer System (MS4) Legend:

### MS4 Drainage Areas



### Parks



### MS4 Outfalls

- MS4 Outfall
- CSO with MS4 Connection

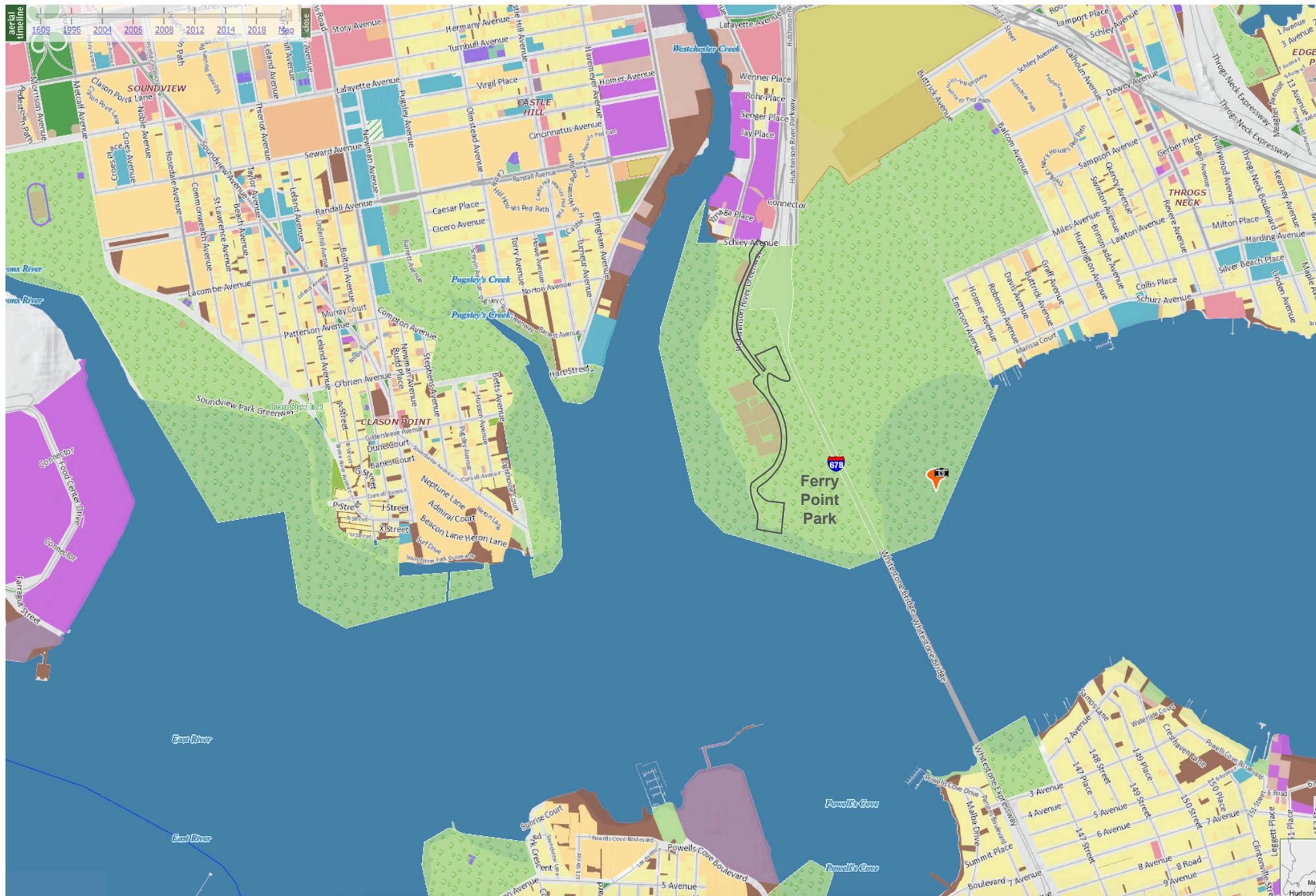
A municipal separate storm sewer system (MS4) is a publicly-owned conveyance or system of conveyances (including but not limited to streets, ditches, catch basins, curbs, gutters, and storm drains) that is designed or used for collecting or conveying stormwater and that discharges to surface waters of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



## Ferry Point Park New Ferry Landing and Upland Improvements | Municipal Separate Storm Sewer System





## Land Use Categories

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



# Ferry Point Park New Ferry Landing and Upland Improvements | Surrounding Land Use



Nancy Owens Studio





Trump Golf Links  
Golf

Ferry Point Park  
Soccer (7)  
Baseball (2)  
Cricket  
Barbeque Areas



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## Ferry Point Park New Ferry Landing and Upland Improvements | Neighborhood Context

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### Legend

- Project Limit
- Park Entrance
- Traffic
- Pedestrian Path
- Bicycle Path
- Foot Path
- Comfort Station

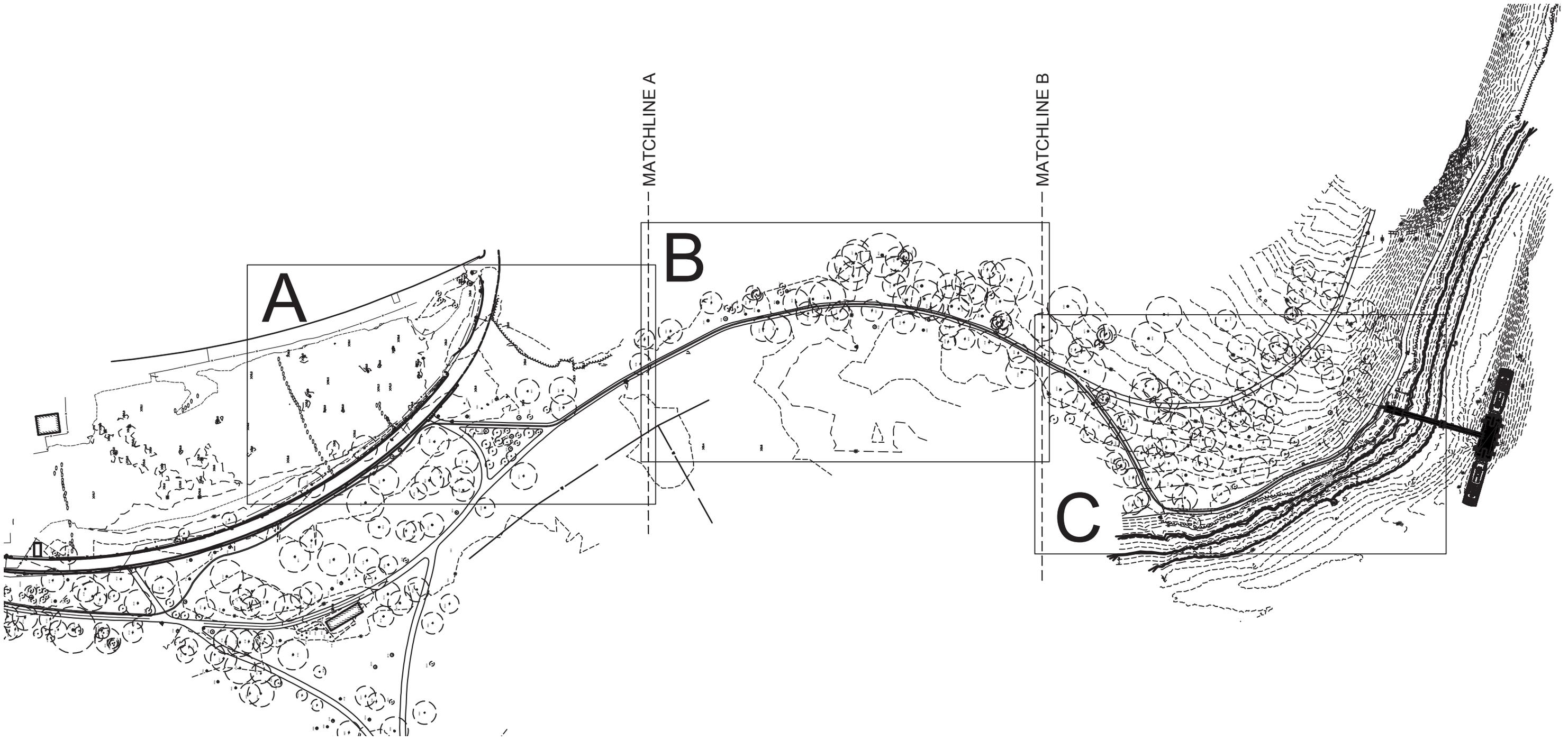


## Ferry Point Park New Ferry Landing and Upland Improvements | Existing Conditions



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# Ferry Point Park New Ferry Landing and Upland Improvements | Key Plan

NYC/EDC

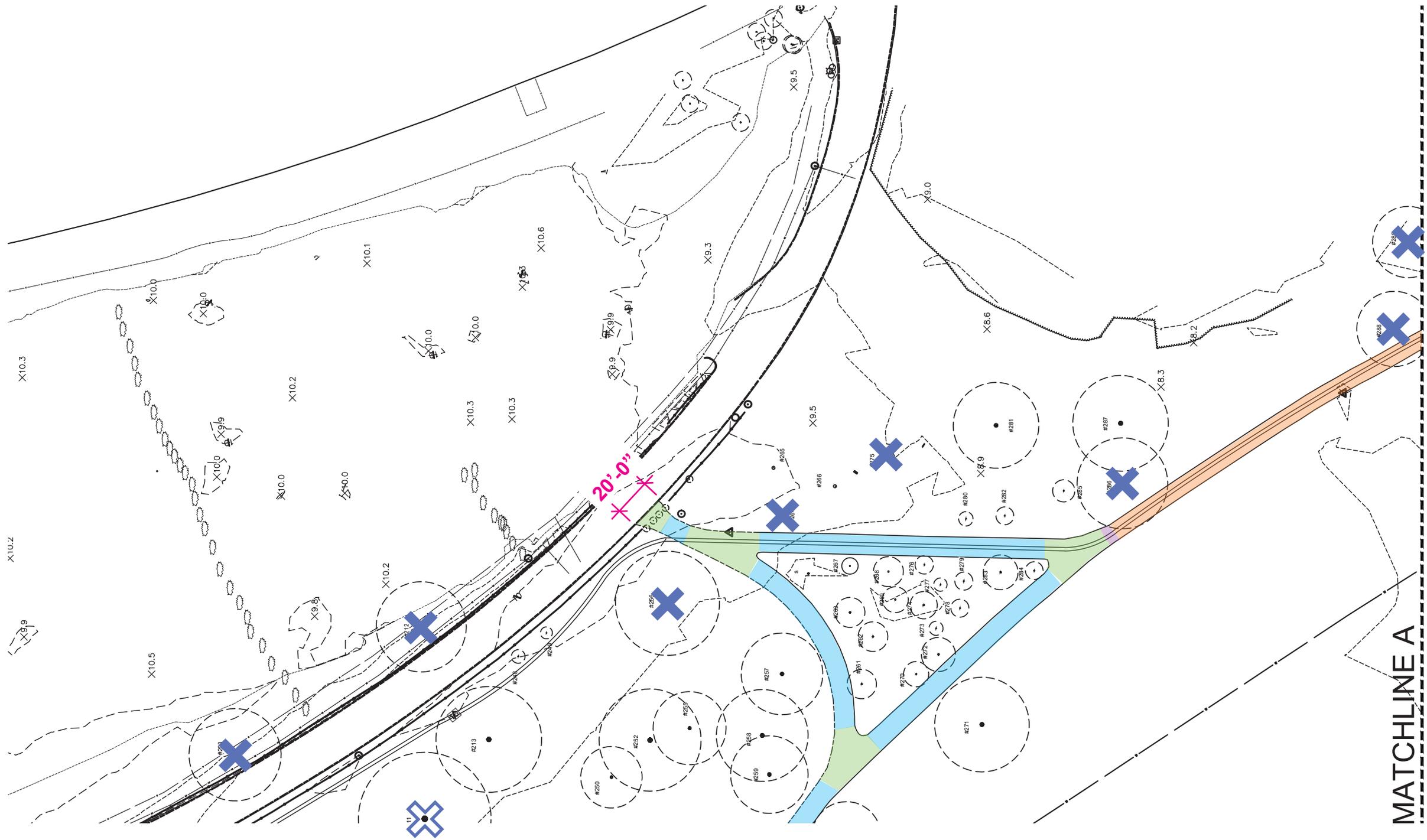
SKANSKA

MCLaren  
ENGINEERING GROUP

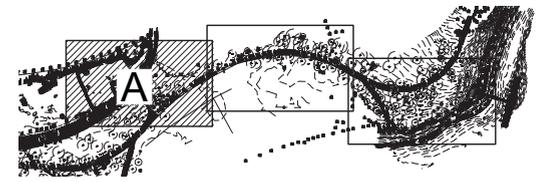
Nancy Owens Studio



Not to Scale



- ### Legend
-  Stump Removal
  -  Tree Removal due to poor condition
  -  10'-0" Wide Path
  -  11'-0" Wide Path
  -  12'-0" Wide Path
  -  >12'-0" Wide Path



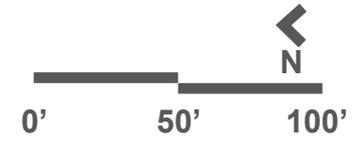
MATCHLINE A

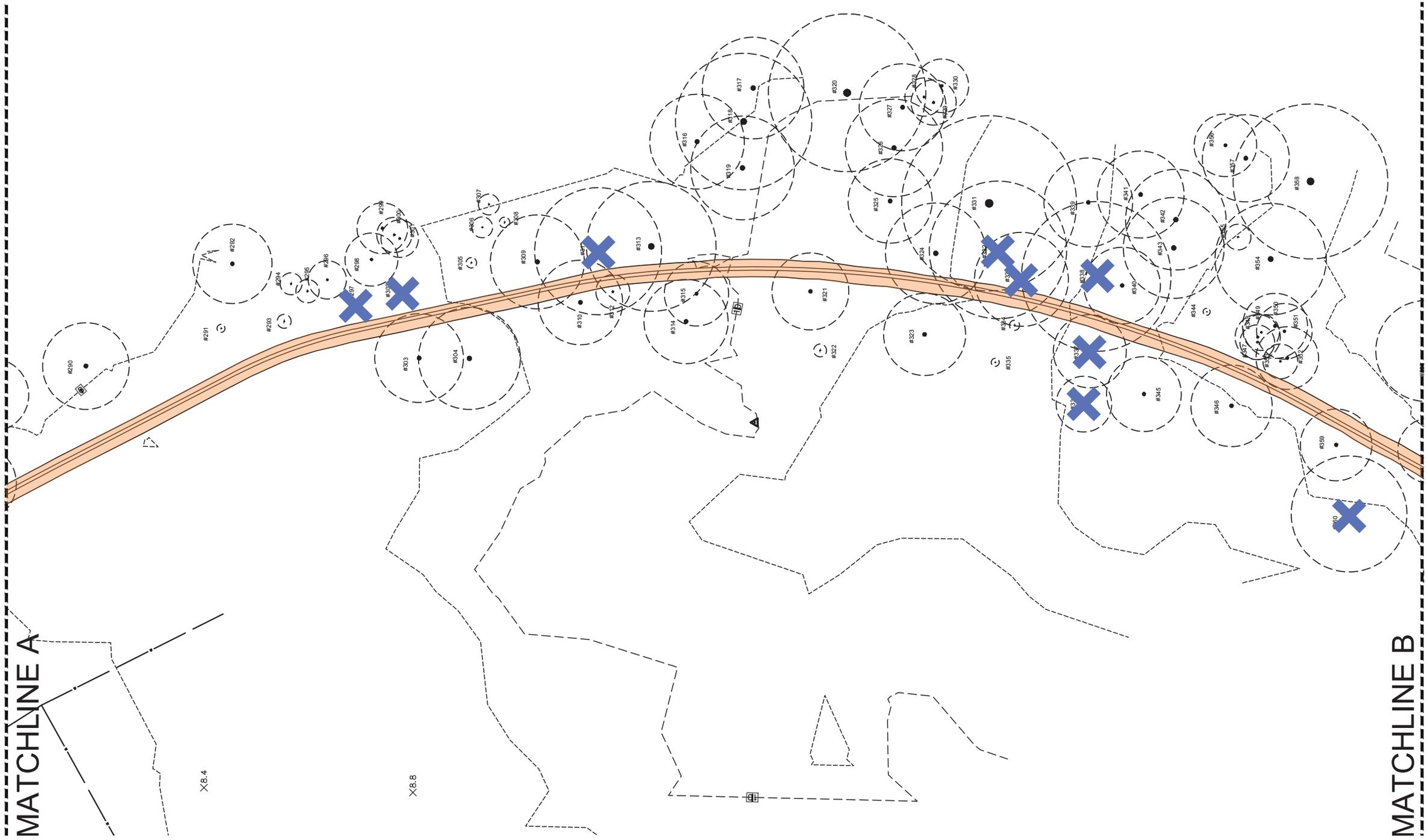


## Ferry Point Park New Ferry Landing and Upland Improvements | Plan A Tree Inventory and Path Width

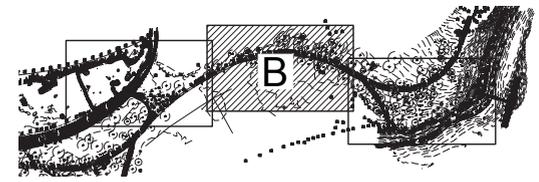






- ### Legend
-  Tree Removal due to poor condition
  -  10'-0" Wide Path



MATCHLINE A

MATCHLINE B

X8.4

X8.8



NYC Parks

## Ferry Point Park New Ferry Landing and Upland Improvements | Plan B Tree Inventory and Path Width

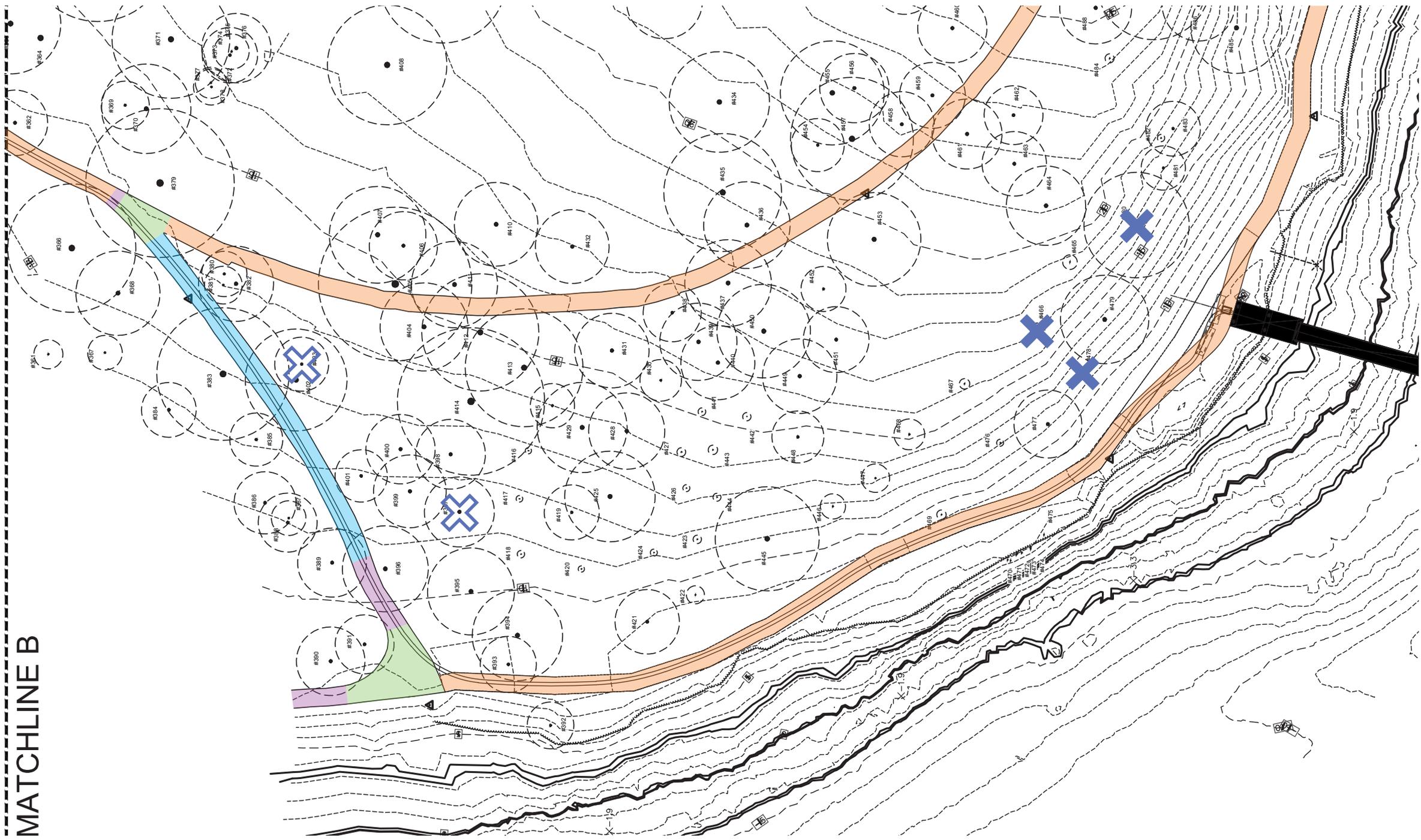
NYC/EDC

SKANSKA

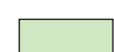
MCLAREN  
ENGINEERING GROUP

Nancy Owens Studio

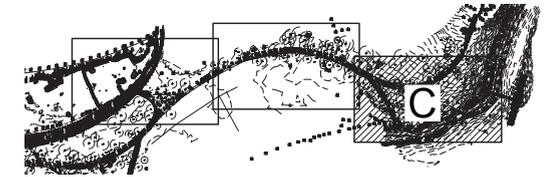




### Legend

-  Stump Removal
-  Tree Removal due to poor condition
-  10'-0" Wide Path
-  11'-0" Wide Path
-  12'-0" Wide Path
-  >12'-0" Wide Path

MATCHLINE B



## Ferry Point Park New Ferry Landing and Upland Improvements | Plan C Tree Inventory and Path Width



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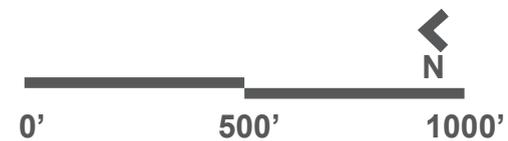
### Legend

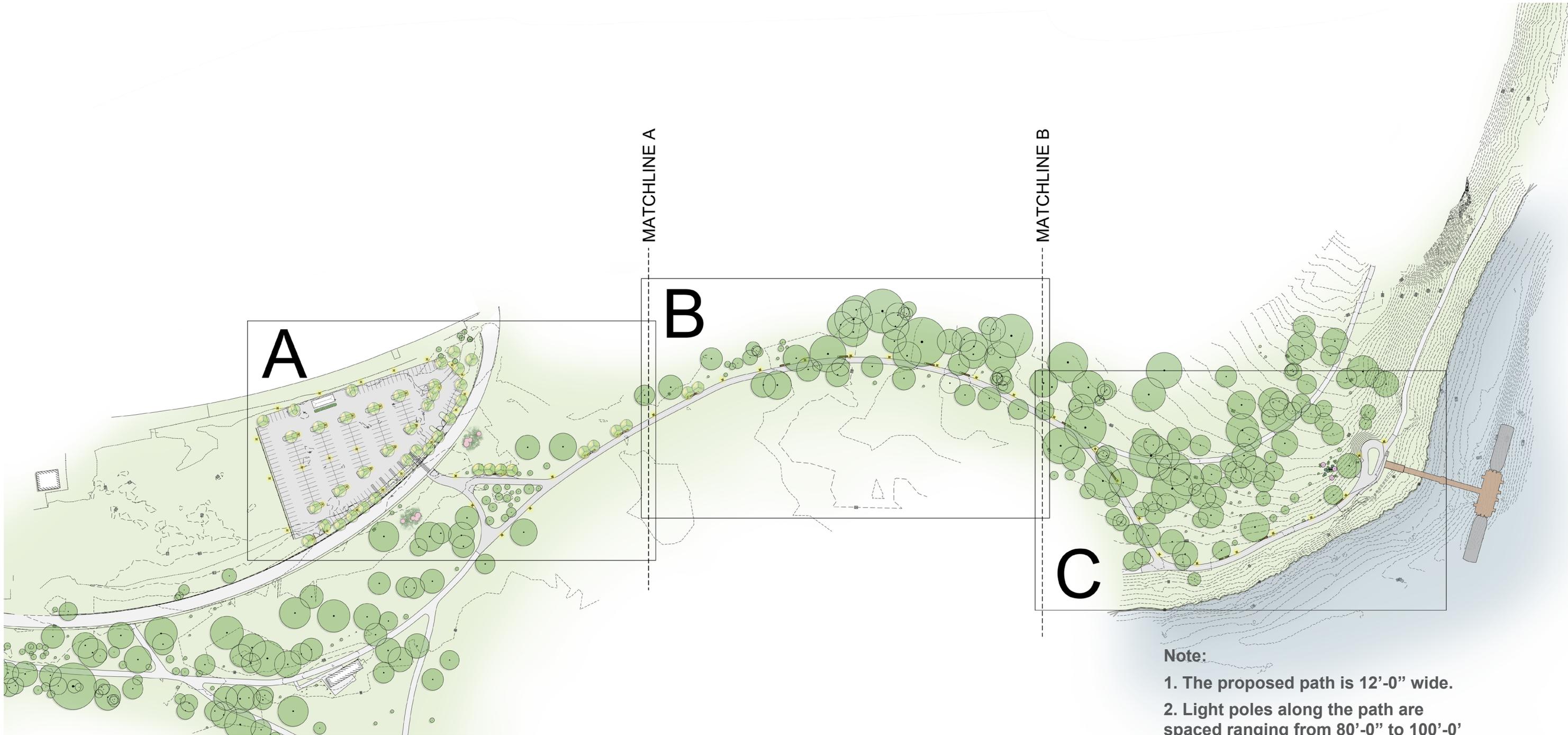
-  Park Entrance
-  Comfort Station
-  Transit Buddy Turnaround and Waiting Area
-  Transit Buddy Route

Proposed Ferry Landing and Transit Buddy Turnaround



## Ferry Point Park New Ferry Landing and Upland Improvements | Concept Diagram





**Note:**

1. The proposed path is 12'-0" wide.
2. Light poles along the path are spaced ranging from 80'-0" to 100'-0" depending on tree location.



**Ferry Point Park New Ferry Landing and Upland Improvements | Key Plan**



Nancy Owens Studio



Not to Scale



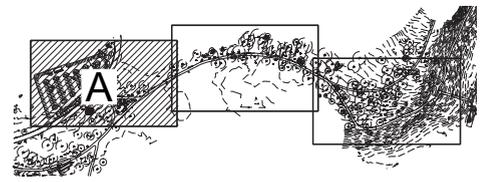
**Note:**

1. The existing entry opening is 20'-0" wide. The proposed width is 19'-0" to accommodate the vehicular gate and pedestrian pathway. The path width then narrows and transitions to meet the 12'-0" wide pathways.
2. The groundwater elevation at the proposed bioretention areas was determined to be between 5'-6" to 6'-0". The proposed practices will be designed above this groundwater elevation and will not incorporate infiltration measures due to the elevated groundwater condition.

**Legend**

-  Vehicle Circulation
-  Transit Buddy Circulation
-  Parking Spaces (8 ADA Spaces)
-  Existing Tree
-  New Tree
-  New Planting Screen
-  New Bioretention
-  New Light Pole
-  New Benches
-  New Vehicular Gate
-  Timber Fence
-  Metal Guardrail

MATCHLINE A



**Ferry Point Park New Ferry Landing and Upland Improvements | Plan A**

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New Parking Lot



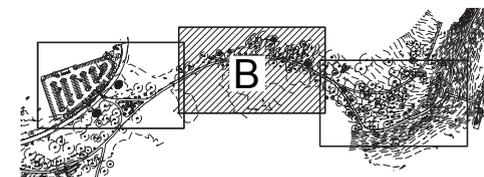


### Legend

-  Existing Tree
-  New Tree
-  New Light Pole
-  New Benches

**Note:**

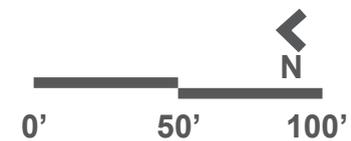
1. The proposed path is 12'-0" wide.
2. Light poles along the path are spaced ranging from 80'-0" to 100'-0" depending on tree location.

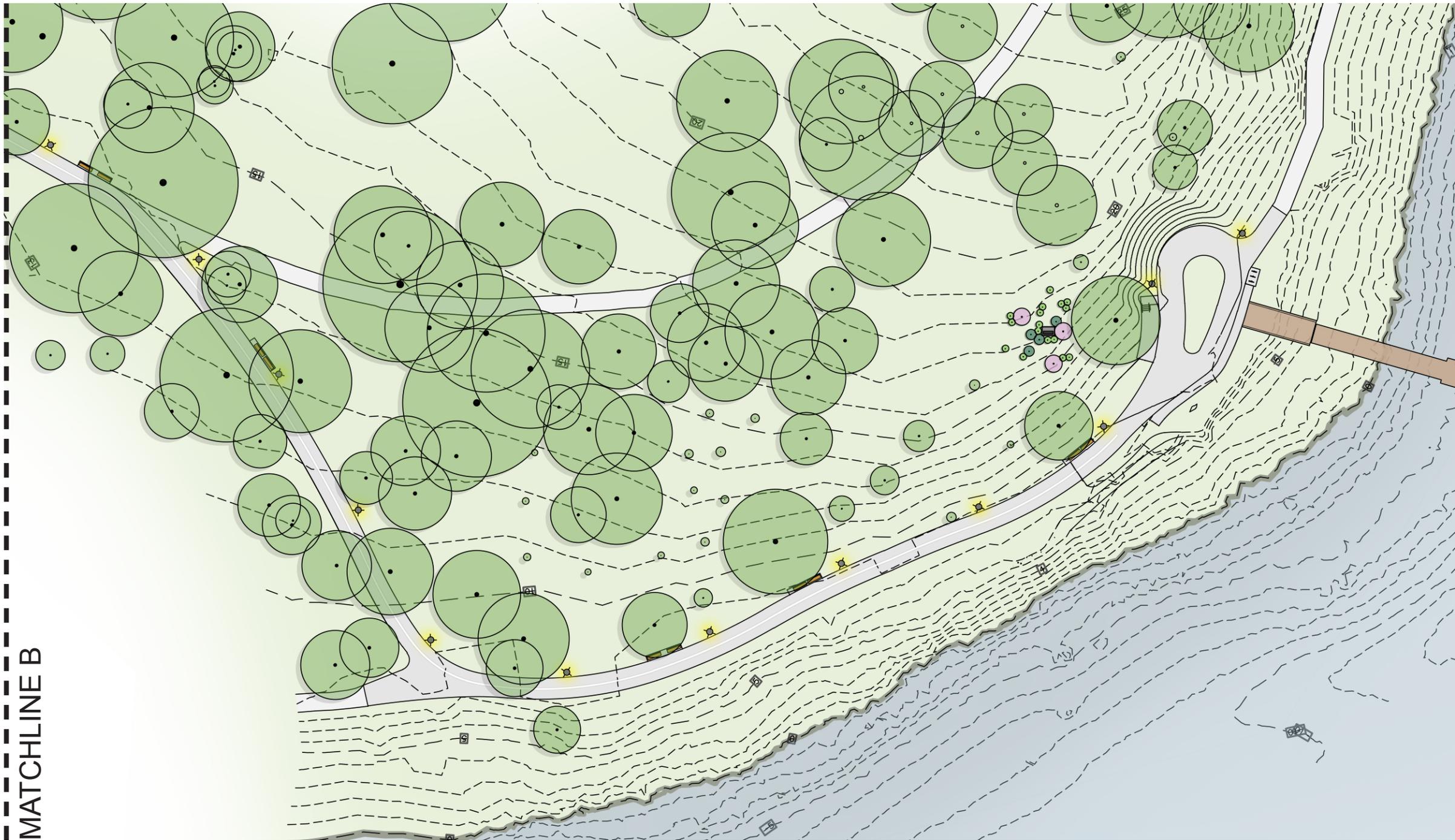


## Ferry Point Park New Ferry Landing and Upland Improvements | Plan B

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Resurfaced Asphalt Path with New Benches and Light Poles





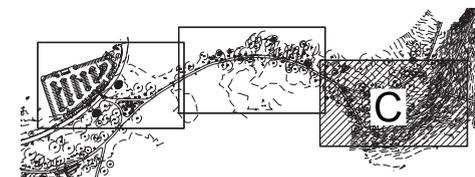
MATCHLINE B

### Legend

-  Existing Tree
-  New Light Pole
-  New Benches
-  New Transformer and Plantings
-  New Standard Bike Rack

#### Note:

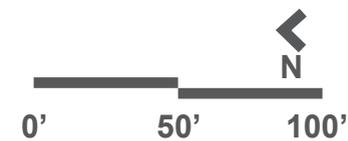
1. The proposed path is 12'-0" wide.
2. Light poles along the path are spaced ranging from 80'-0" to 100'-0" depending on tree location.

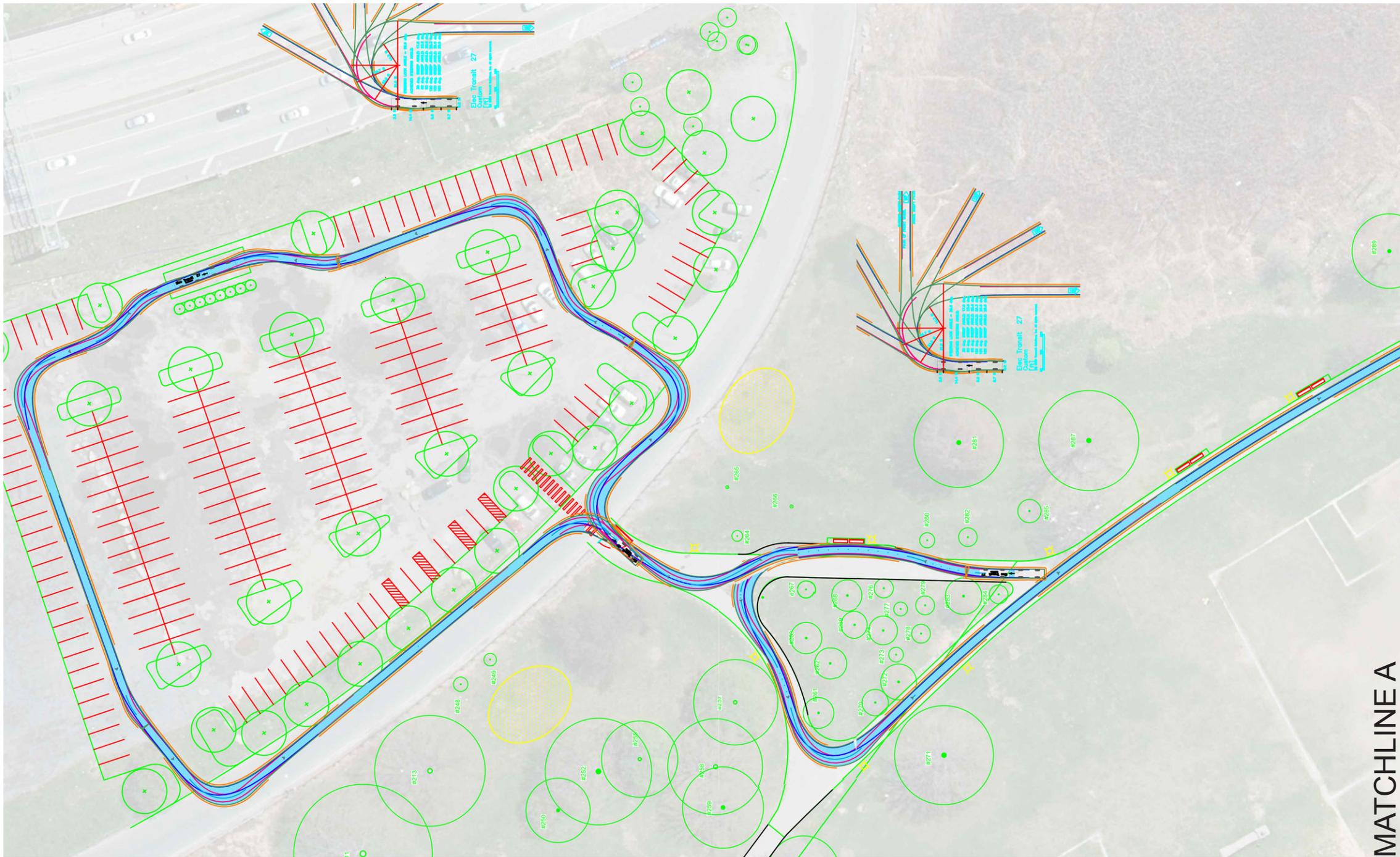


## Ferry Point Park New Ferry Landing and Upland Improvements | Plan C

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Existing Gravel Path and Resurfaced Asphalt Path with New Benches and Light Poles

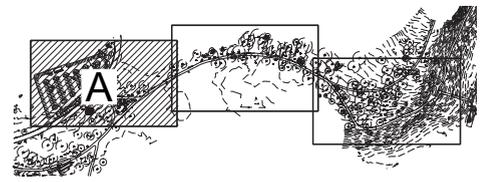




**Note:** The pathway may need to be widened at key turning areas to accommodate the turning radius of the trolley. Pathway width will be further defined when the vehicle is chosen. Two areas noted:

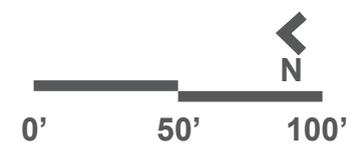
- Pedestrian path could be added to the right of the northern drop off location so pedestrians can walk around the drop off on the pathway.
- Add approximately 2' of additional pathway adjacent to tree #257. This will impact that CRZ and also require the light pole to be moved.

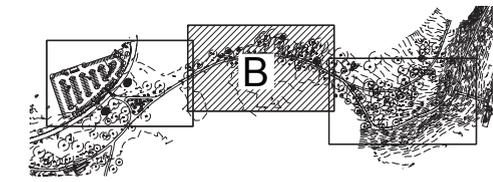
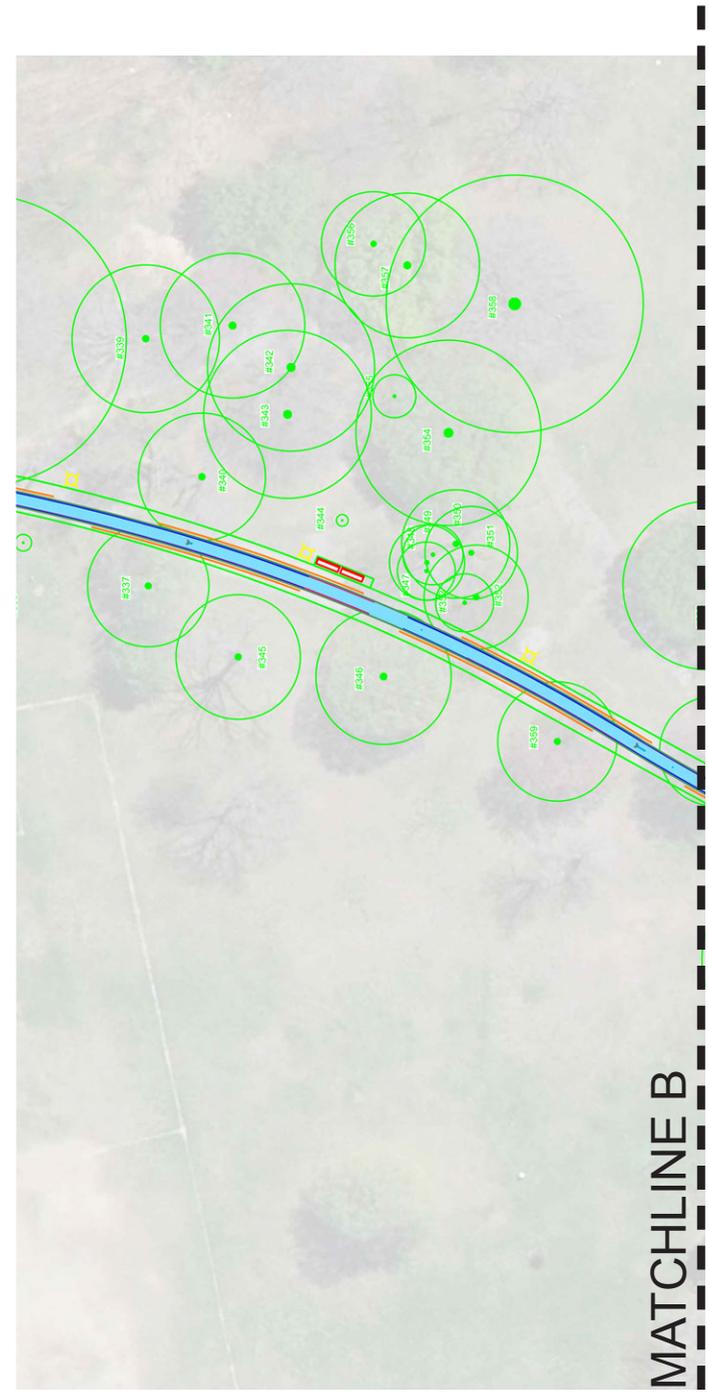
MATCHLINE A



## Ferry Point Park New Ferry Landing and Upland Improvements | Turning Radius - Plan A

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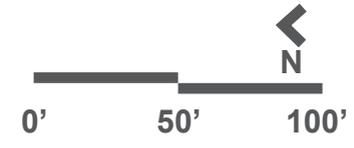
MATCHLINE A

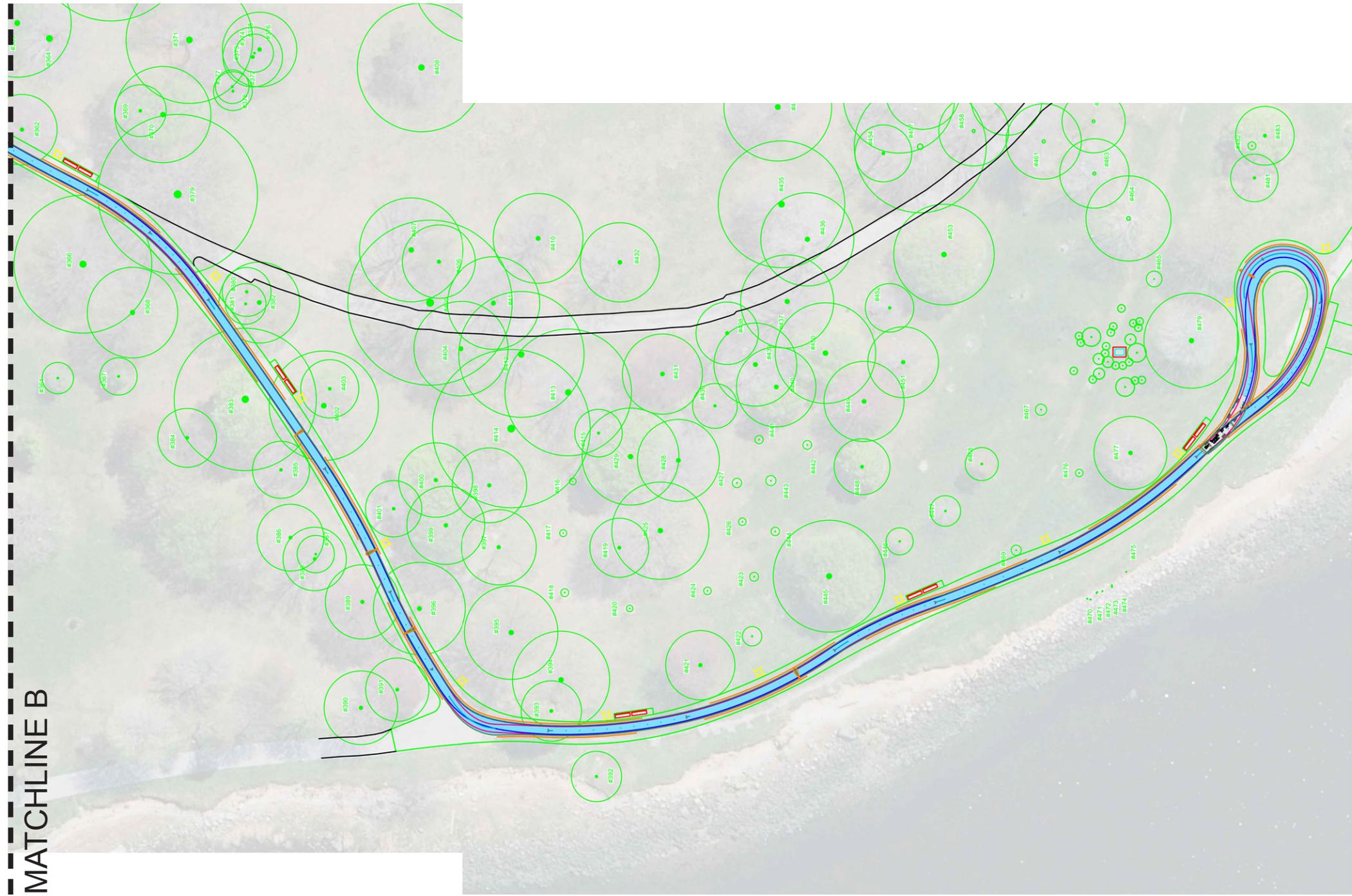
MATCHLINE B



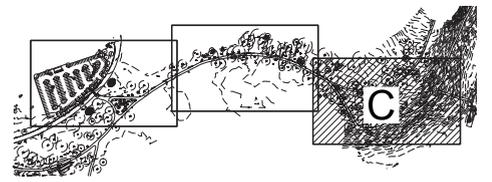
Ferry Point Park New Ferry Landing and Upland Improvements | Turning Radius - Plan B

NYC/EDC SKANSKA McLaren ENGINEERING GROUP Nancy Owens Studio



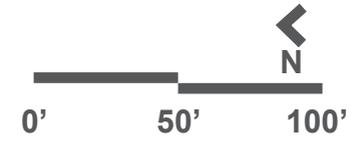


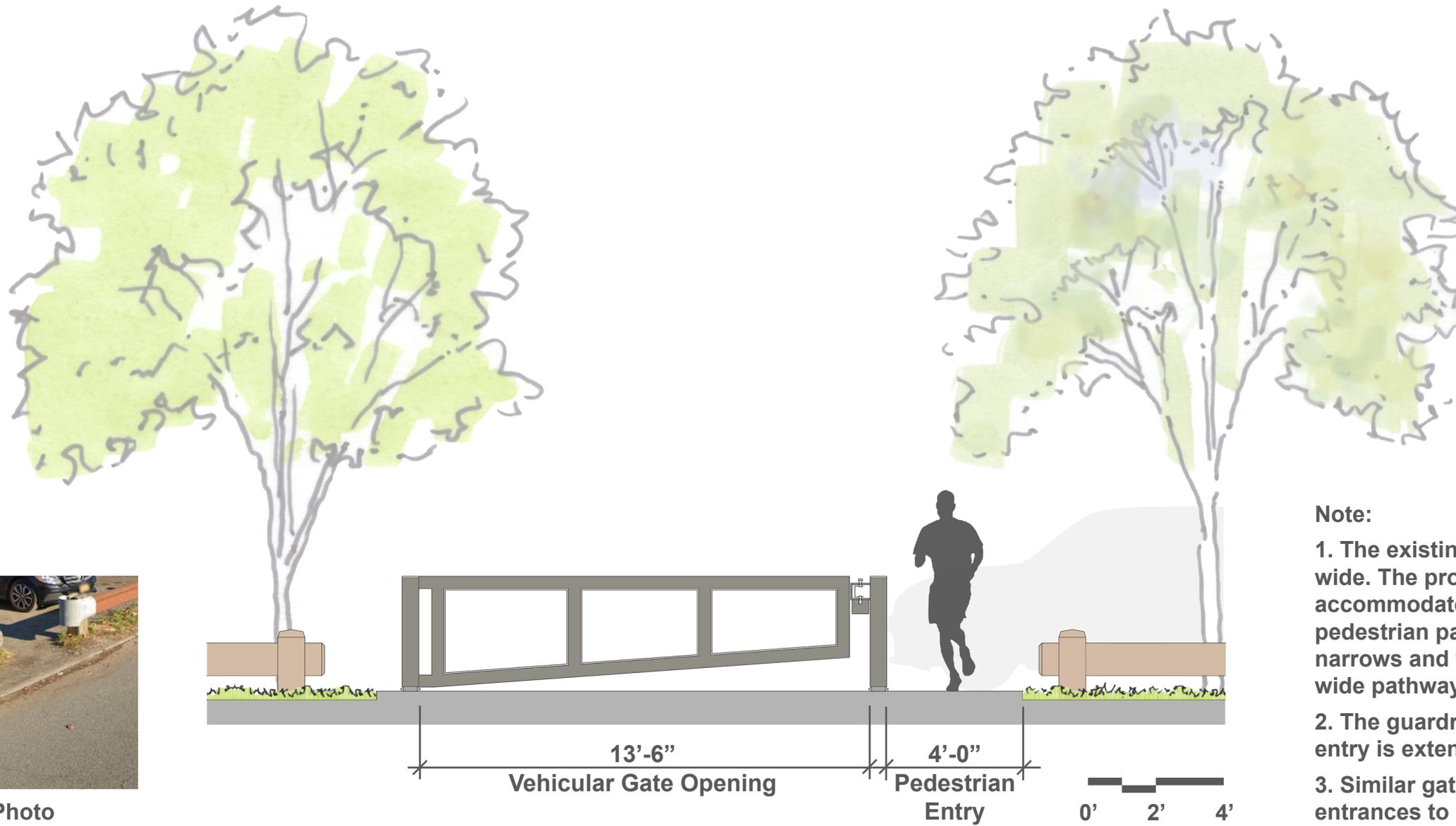
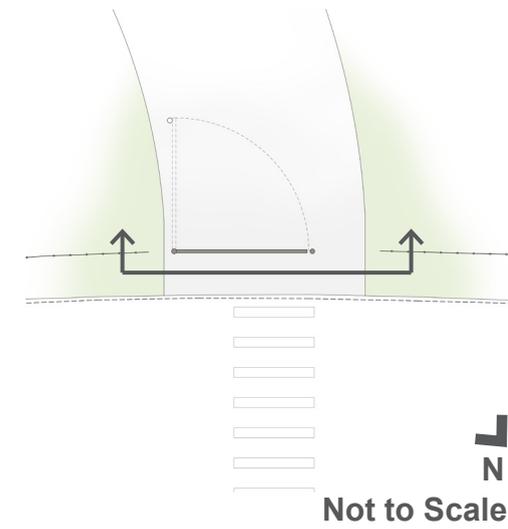
MATCHLINE B



Ferry Point Park New Ferry Landing and Upland Improvements | Turning Radius - Plan C

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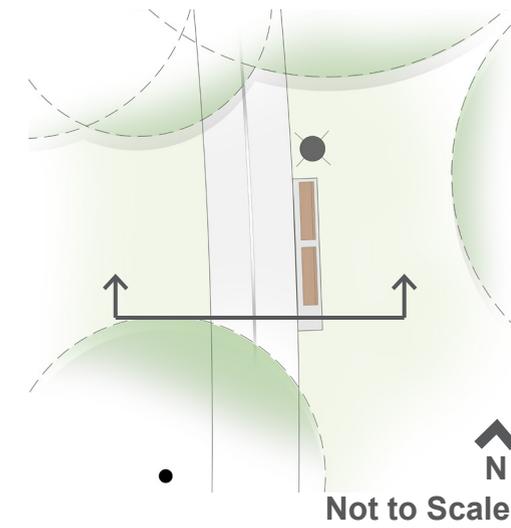
**Note:**

1. The existing entry opening is 20'-0" wide. The proposed width is 19'-0" to accommodate the vehicular gate and pedestrian pathway. The path width then narrows and transitions to meet the 12'-0" wide pathways.
2. The guardrail adjacent to the pedestrian entry is extended 2'-0".
3. Similar gates will be used at the two entrances to parking lot.



Existing Steel Guardrail Photo

Ferry Point Park New Ferry Landing and Upland Improvements | Section/Elevation - Park Entrance



Note: Painted stripe in the middle of the path to delineate the trolley pathway.

Ferry Point Park New Ferry Landing and Upland Improvements | Section/Elevation - Path

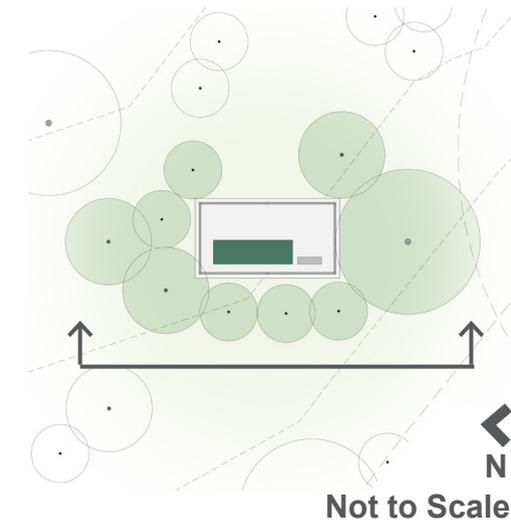
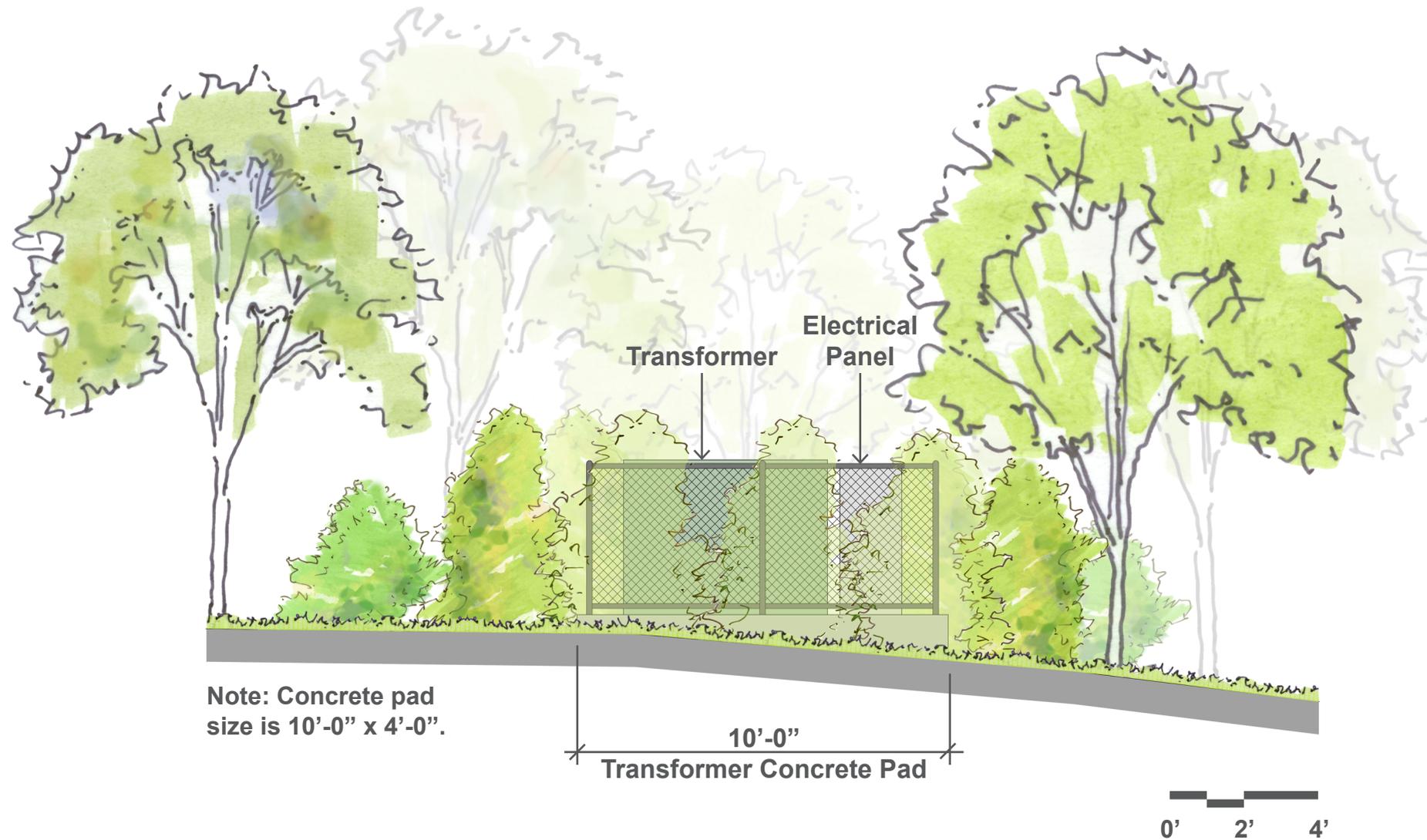


NYC/EDC

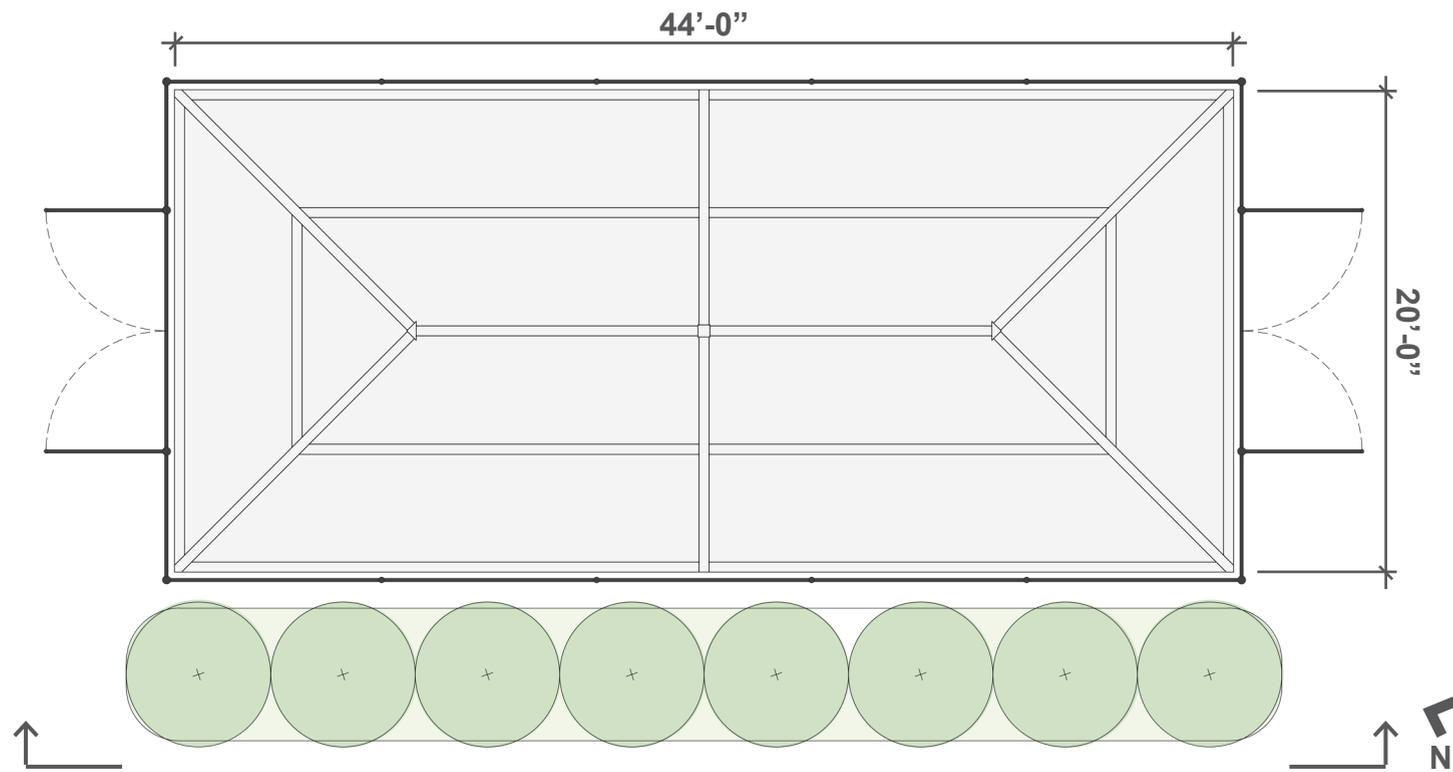
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ENGINEERING GROUP

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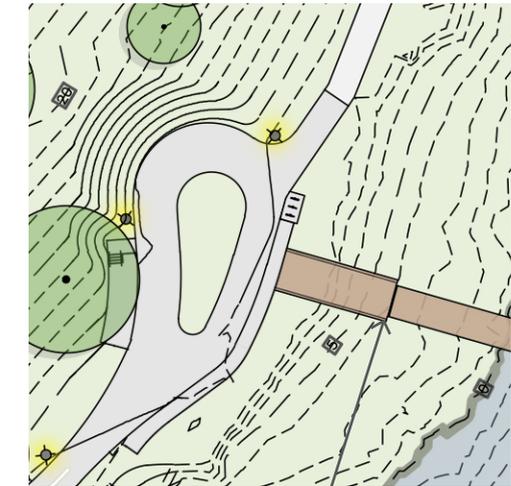
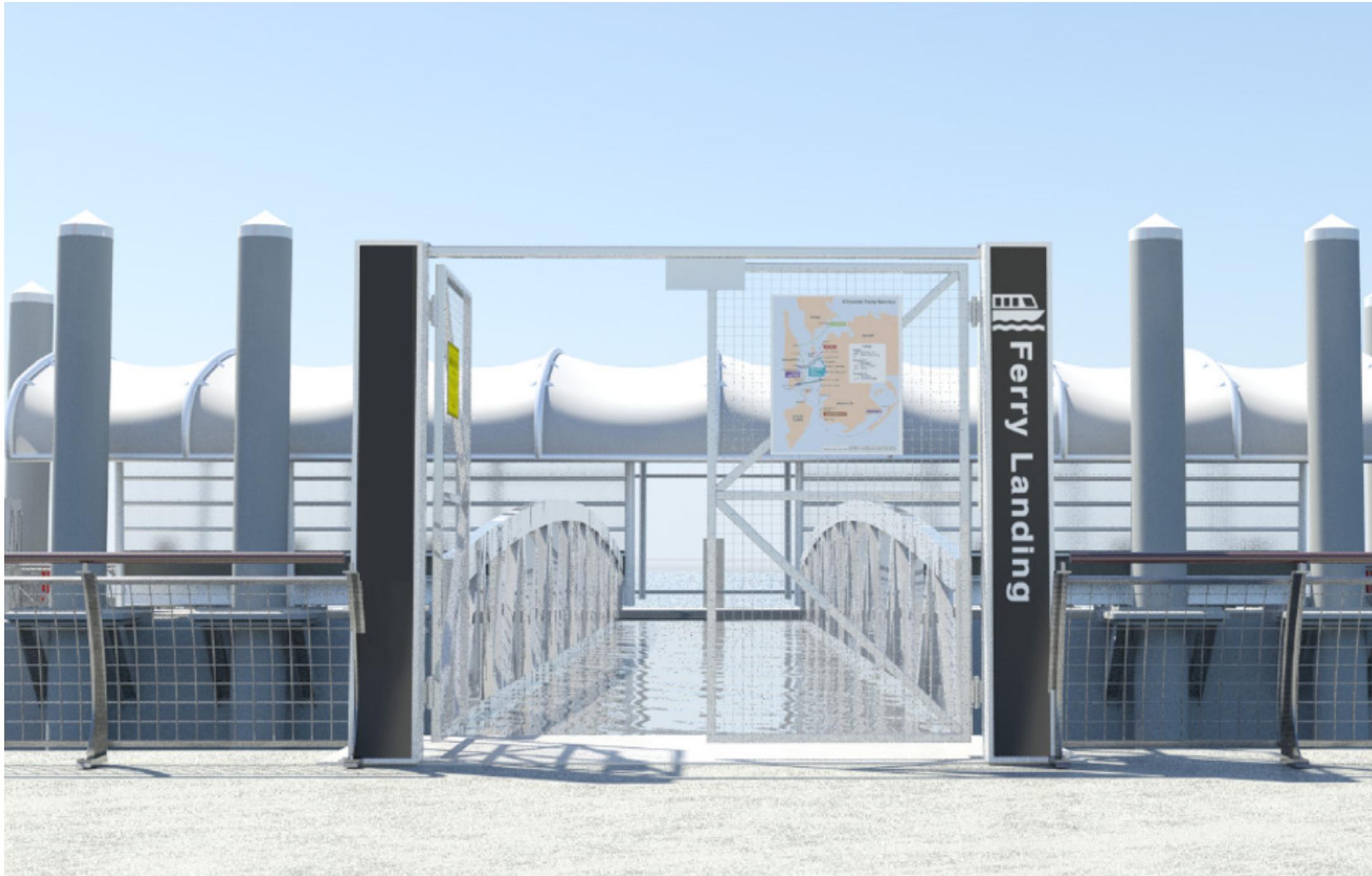
Electrical Panel Photo



**CREATIVE RECREATIONAL SYSTEM (HIP END)**  
 Roof can be easily closed with standard chain link fence



**EXISTING COMFORT STATION**

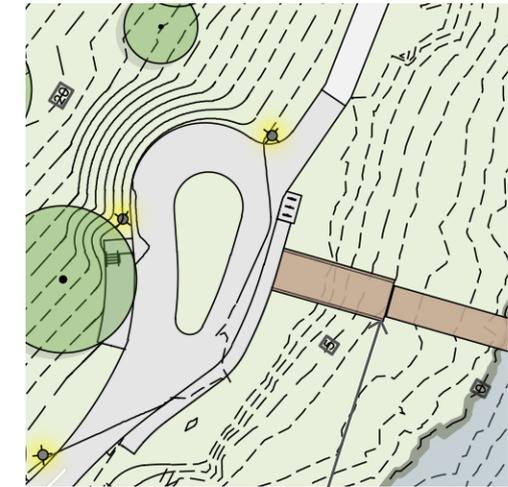
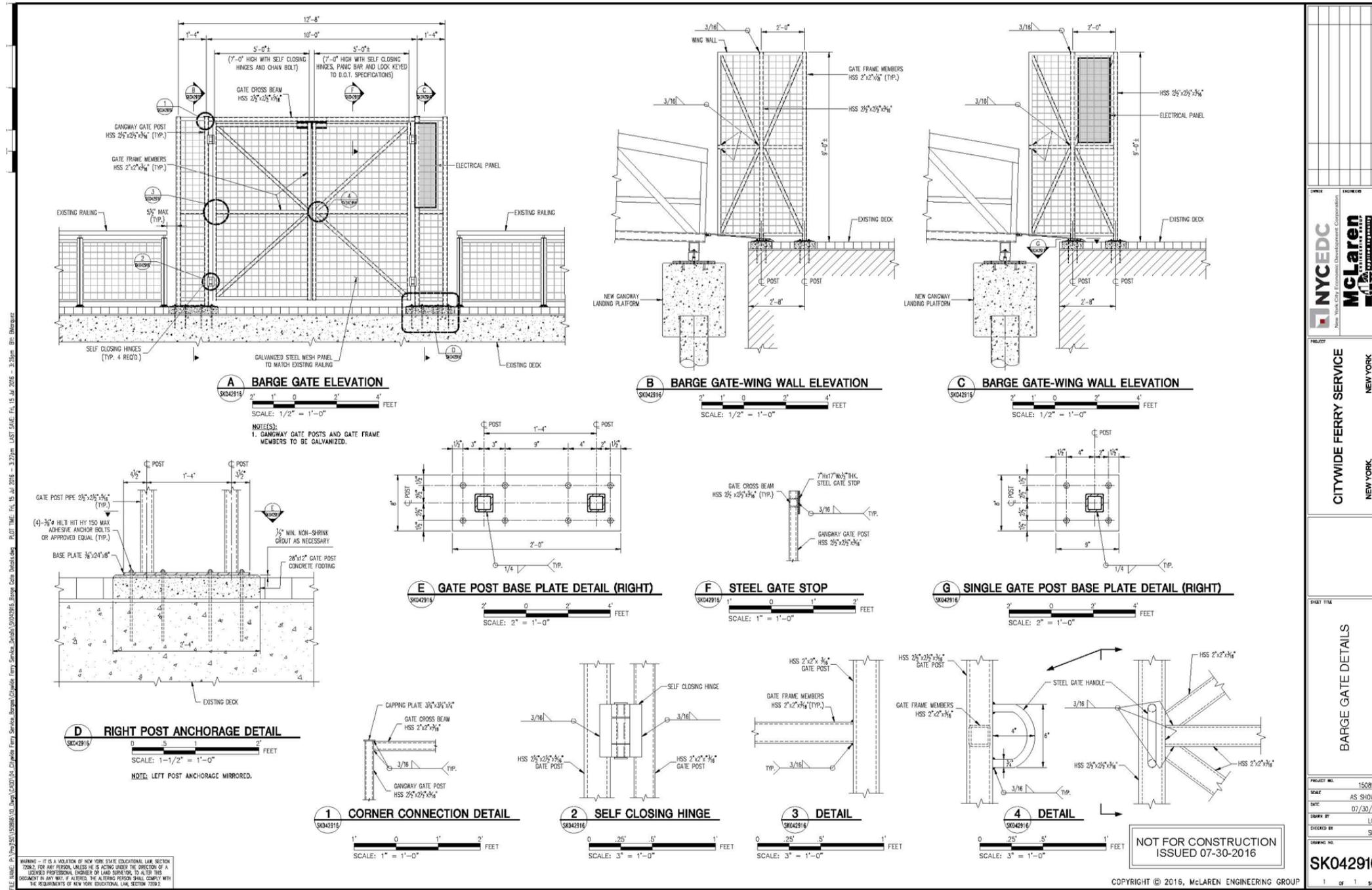


Ferry Landing Gate and Portal Columns  
N  
Not to Scale

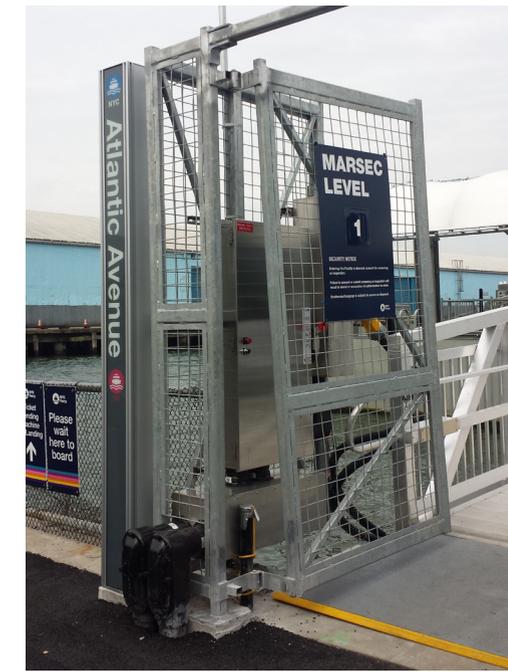


Ferry Point Park New Ferry Landing and Upland Improvements | Ferry Landing Gate and Portal Columns - Rendering





Ferry Landing Gate and Portal Columns  
 Not to Scale

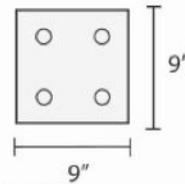


# Ferry Point Park New Ferry Landing and Upland Improvements | Ferry Landing Gate and Portal Columns - Details 1

# FERRY LANDING IDENTIFICATION SIGNAGE SECURITY GATE - MARSEC SIGNAGE

## COLUMNAR BASE FOOTPRINT

- ▶ 9" x 9" square base plate
- ▶ 4- 3/8" HILTI HIT HY 150 Max adhesive anchor bolts (similar to those from Gate Post Detail)

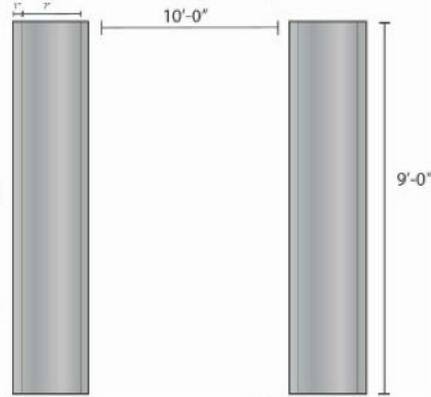


- ▶ MARSEC LEVEL 1 sign mounted on interior side of security gate wing wall.



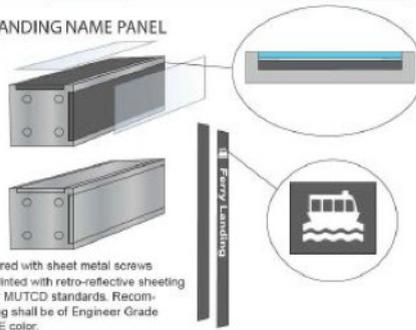
## PORTAL COLUMNS- ALUMINUM SQUARE TUBE

- ▶ Two (2) anodized aluminum square tube columns.
- ▶ Hollow core
- ▶ Cut to 9'-0"± lengths
- ▶ 5052-H32 Aluminum (ASTM B209, QQ-A-250/8)
- ▶ .190 (3/16) - .250 (1/4) thickness, heavy gauge bent aluminum.
- ▶ 2' L x 1' W Digital Identification Display (DID) integrated into column.
- ▶ 108" L x 6" W x 2" D signage panel, machine cut into two landside facing sides of each column.



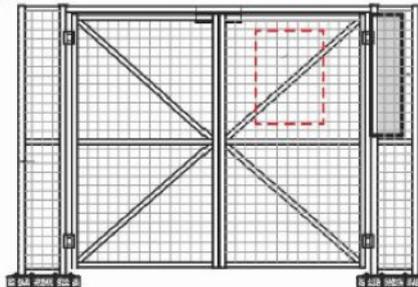
## PORTAL COLUMNS- LANDING NAME PANEL

- ▶ 108" L x 6" W x 2" D Ferry Landing Name Signage panel.
- ▶ Ferry Landing Names printed on dark grey vinyl and applied to the aluminum column. Vinyl sheets can be easily removed and replaced.
- ▶ Shatter resistant tempered glass protective cover slides over vinyl.
- ▶ Ferry icon consistent with WalkNYC program.
- ▶ Tempered glass cover secured with sheet metal screws
- ▶ Signage lettering shall be printed with retro-reflective sheeting and protective overlay film per MUTCD standards. Recommended retroreflective sheeting shall be of Engineer Grade ASTM D4956 Type 1 in WHITE color.



## SECURITY GATE - ROUTE MAP

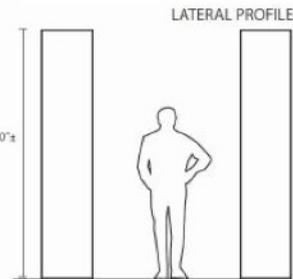
- ▶ Ferry System Route Map mounted on exterior / landside facing security gate door.



## MATERIALS

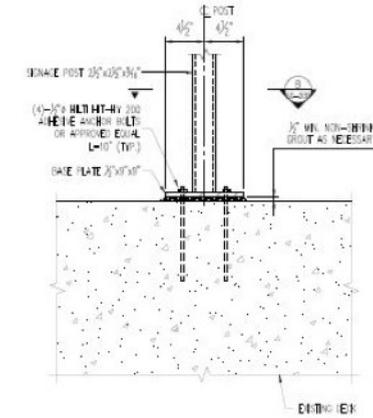
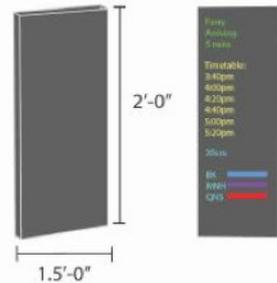


ANODIZED ALUMINUM TYPEFACE & ICONOGRAPHY  
 NeueHelveticaDOT  
 Rockaway - Beach 108 St  
 Ferry Landing  
 COLOR PALLETTE

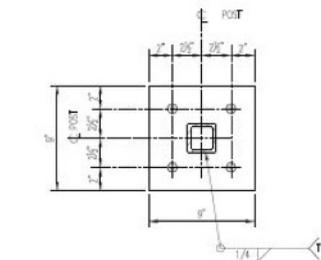


## PORTAL COLUMNS- DIGITAL INFORMATION DISPLAY

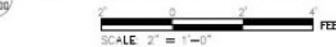
- ▶ 2' L x 1.5' W Digital Information Qualcomm Display screen.
- ▶ Weather-proof and corrosion resistant.
- ▶ Displays real-time schedule and route information.



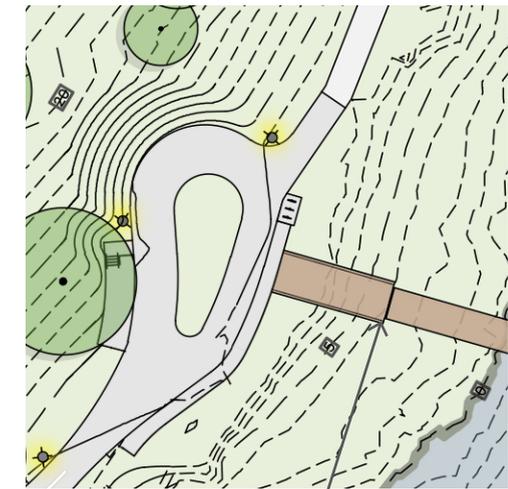
**A IDENTIFICATION SIGNAGE ANCHORAGE DETAIL**



**B IDENTIFICATION SIGNAGE BASE PLATE DETAIL**



- NOTES:**
- DIGITAL INFORMATION DISPLAY (DID) TO BE PROGRAMMED BY THE OPERATOR. DETAILS FOR THE DID TO BE PROVIDED BY OTHERS.
  - TYPEFACE LETTERING PRINTED IN WHITE, WITH RETROREFLECTIVE SHEETING TO ENHANCE LUMINESCENCE OF LETTERING.
  - FOR TYPEFACE AND LETTERING SIZE, MAXIMIZE TOTAL FONT SIZE (APPROX. 7") WHILE INCLUDING TOLERANCE FOR DESCENDING AND ASCENDING LETTERS (esp. "y" OR "g").
  - ALL EDGES OF THE ANODIZED ALUMINUM SQUARE TUBES SHALL BE ROUNDED. DETAILS TO BE INCLUDED IN SHOP DRAWINGS.
  - FINALIZED FERRY LANDING NAMES ARE TO BE DETERMINED AND PROVIDED BY THE CITY.
  - CONTRACTOR SHALL PROVIDE FINAL DETAILING TO DESIGN TEAM FOR REVIEW PRIOR TO COMMENCEMENT OF SHOP DRAWINGS.



Ferry Landing Gate and Portal Columns

Not to Scale



### SIGNAGE THAT MAY BE INCLUDED:

- MARSEC sign (required by USCG)
- Rules and regulations
- Schedule board and map x2 (at top of landing and on barge itself)
- ADA accessibility sign
- Title VI sign
- Restricted area sign
- App signage
- NYCF pole banner to identify the landing



Note: Existing light poles are non-functional/not in use.



## Ferry Point Park New Ferry Landing and Upland Improvements | Existing Light Pole



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**FLUSHING MEADOWS  
LUMINAIRE AND POLE**

Color: Black



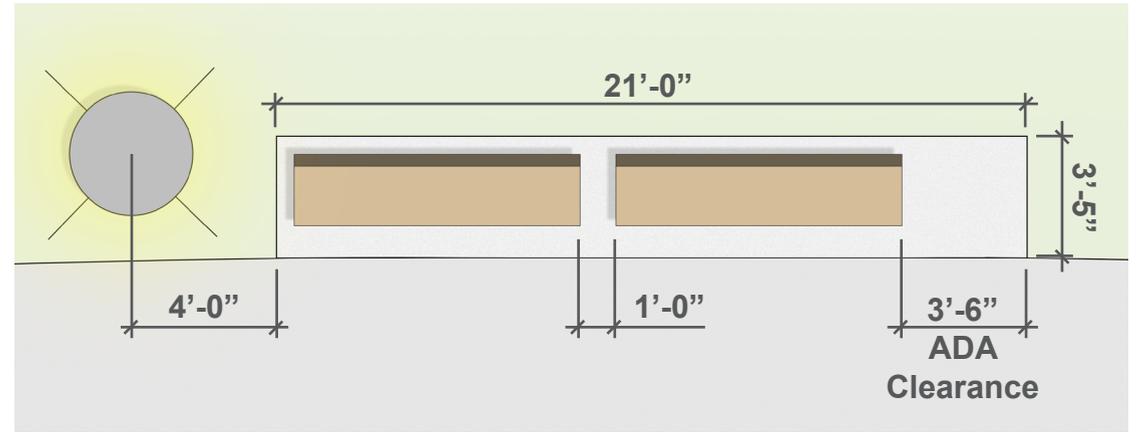
**STANDARD LED COBRA HEAD  
LUMINAIRE AND POLE**

Color: Black



**CHAIN LINK FENCE**

Color: Black



**TYPICAL 8'-0" BENCH LAYOUT**

Note: Companion seating will be located in the middle at some bench locations.



**1964 WORLD'S FAIR BENCH WITH BACK, ARM RESTS & RPL  
SLATS**

Bench Support: Silver  
Slat Color: Weathered Wood



**BARGE CANOPY MATERIAL**  
MastePTFE Coated Fabric



**BARGE CANOPY COLOR**  
Bright White (Bleached Oatmeal)



**BARGE CANOPY STEEL**  
Color & Finish: Gray



**GANGWAY**  
Color & Finish: Galvanized Steel OR  
Brushed Aluminum

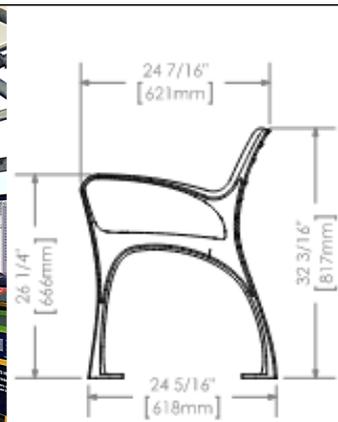
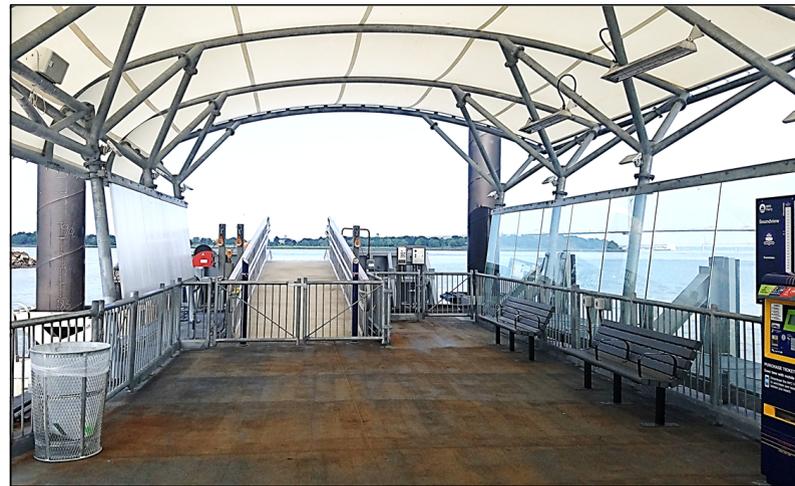


**BARGE DECK COLOR**  
Carboline's Graphite Gray Paint



**Ferry Point Park New Ferry Landing and Upland Improvements | Barge Materials**



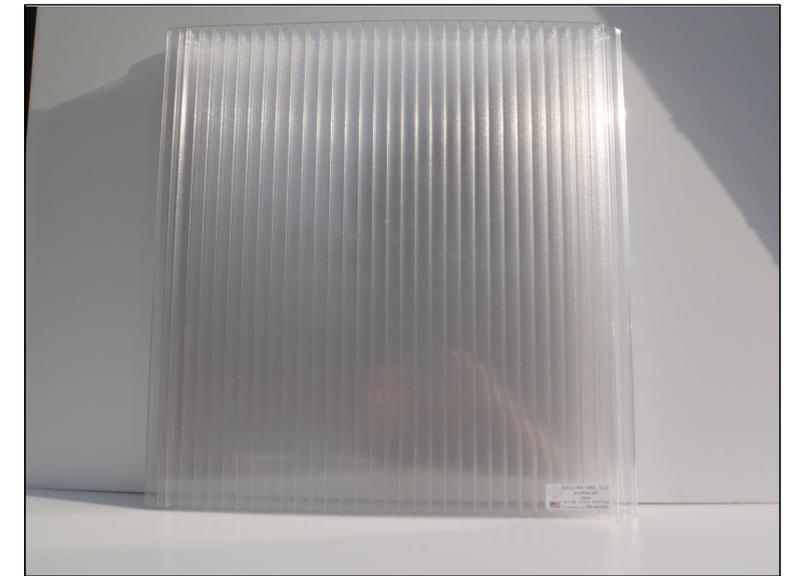
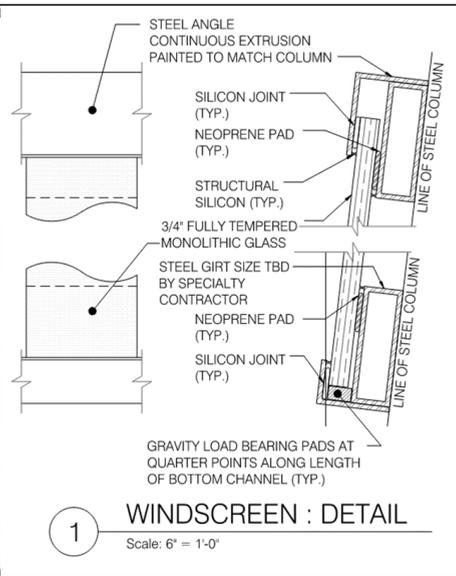


**DIMENSIONS:**  
 Height: 32.2" (81.7cm)  
 Length: 69.5" (176.5cm)  
 Depth: 24.4" (62.1cm)  
 Weight: 118.77lbs (53.9kg)



**BARGE BENCH**

**MAGLIN 800 Series - 870 Backed Bench with (3)-Arm Rests, Charcoal HDPC (High Density Paper Composite) seating/backing, and Silver-14 powder-coat gloss finish for the solid cast-aluminum frame**



**WINDSCREEN**

Galvanized Steel Framing

**WINDSCREEN**

Polycarbonate Panel



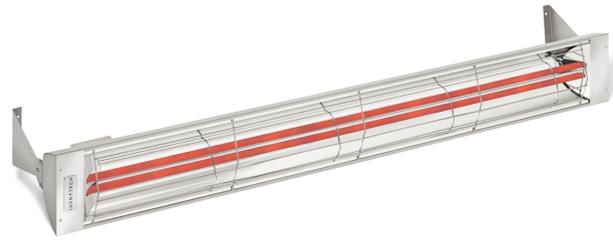
**Ferry Point Park New Ferry Landing and Upland Improvements | Material Samples**



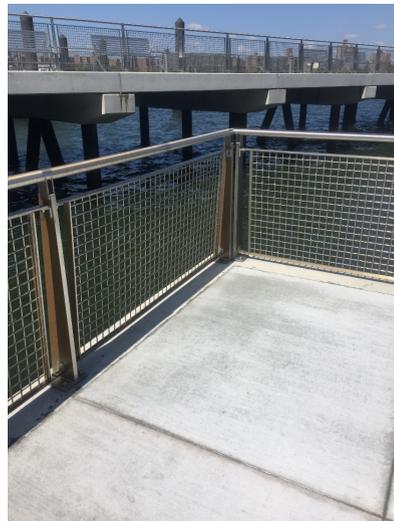
Nancy Owens Studio



LED LIGHT FIXTURES



RADIANT HEAT UNITS



HANDRAIL DETAILS



LED OUTDOOR MONITOR & STATIONARY TICKET



# Ferry Point Park New Ferry Landing and Upland Improvements | Outfitting Products and Material Samples





**THORNLESS HONEY LOCUST**  
*Gleditsia triacanthos var. inermis*  
Height: 50-75 ft.



**SWAMP OAK**  
*Quercus bicolor*  
Height: 50-60 ft.



**BLACK GUM**  
*Nyssa sylvatica*  
Height: 40-60 ft.



**SKIP LAUREL**  
*Prunus laurocerasus 'Schipkaensis'*  
Height: 6-10 ft.



**EASTERN REDBUD**  
*Cercis canadensis*  
Height: 12-36 ft.



**RED OSIER DOGWOOD**  
*Cornus sericea*  
Height: 4-8 ft.



**NORTHERN BAYBERRY**  
*Myrica pensylvanica*  
Height: 6-10 ft.



**SERVICEBERRY**  
*Amelanchier canadensis*  
Height: 15-30 ft.

Parking Lot Plantings

Bioretention Area Plantings

Transformer Screen Plantings



## Ferry Point Park New Ferry Landing and Upland Improvements | Planting



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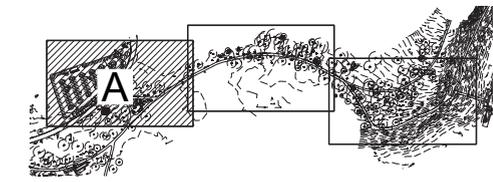
**Note:**

1. The existing entry opening is 20'-0" wide. The proposed width is 19'-0" to accommodate the vehicular gate and pedestrian pathway. The path width then narrows and transitions to meet the 12'-0" wide pathways.
2. The groundwater elevation at the proposed bioretention areas was determined to be between 5'-6" to 6'-0". The proposed practices will be designed above this groundwater elevation and will not incorporate infiltration measures due to the elevated groundwater condition.

**Legend**

- Vehicle Circulation
- Transit Buddy Circulation
- Parking Spaces (8 ADA Spaces)
- Existing Tree
- New Tree
- New Planting Screen
- New Bioretention
- New Light Pole
- New Benches
- New Vehicular Gate
- Timber Fence
- Metal Guardrail

MATCHLINE A



**Ferry Point Park New Ferry Landing and Upland Improvements | Plan A**

NYC/EDC SKANSKA McLaren ENGINEERING GROUP Nancy Owens Studio

New Parking Lot



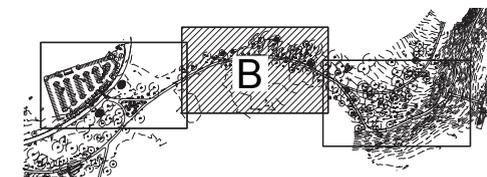


### Legend

-  Existing Tree
-  New Tree
-  New Light Pole
-  New Benches

**Note:**

1. The proposed path is 12'-0" wide.
2. Light poles along the path are spaced ranging from 80'-0" to 100'-0" depending on tree location.



MATCHLINE A

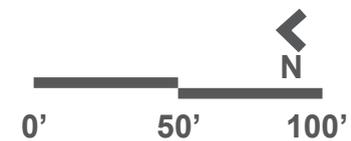
MATCHLINE B

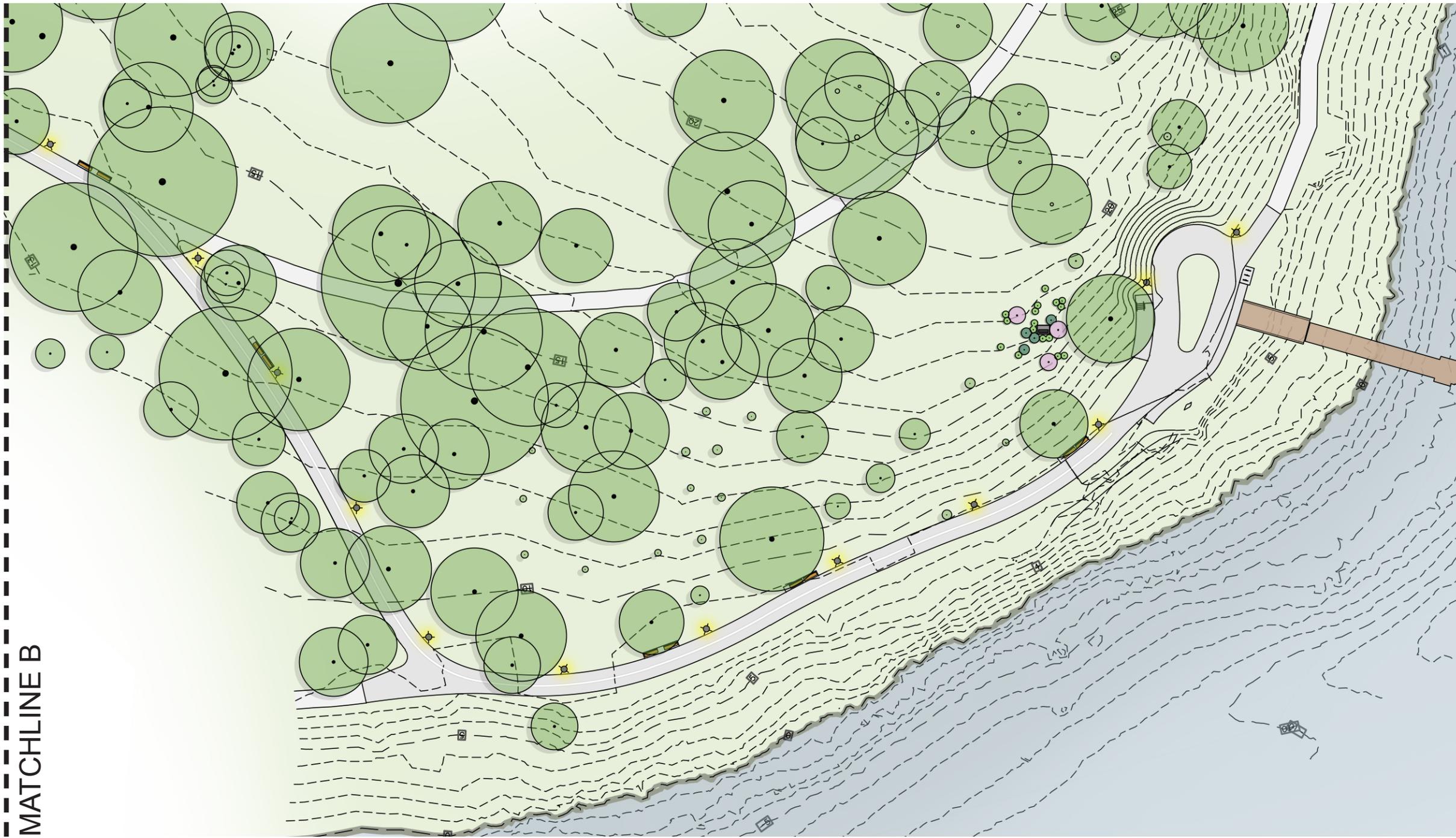


## Ferry Point Park New Ferry Landing and Upland Improvements | Plan B

NYC/EDC SKANSKA McLaren ENGINEERING GROUP Nancy Owens Studio

Resurfaced Asphalt Path with New Benches and Light Poles



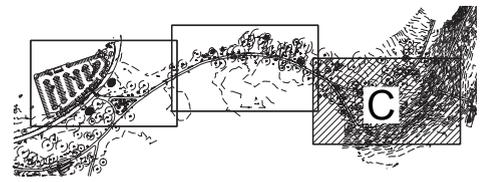


MATCHLINE B

**Legend**

-  Existing Tree
-  New Light Pole
-  New Benches
-  New Transformer and Plantings
-  New Standard Bike Rack

- Note:**
1. The proposed path is 12'-0" wide.
  2. Light poles along the path are spaced ranging from 80'-0" to 100'-0" depending on tree location.



**Ferry Point Park New Ferry Landing and Upland Improvements | Plan C**

NYC/EDC SKANSKA McLaren ENGINEERING GROUP Nancy Owens Studio

Existing Gravel Path and Resurfaced Asphalt Path with New Benches and Light Poles

