



**US Army Corps  
of Engineers®**  
New York District

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# **Integrated Hurricane Sandy General Reevaluation Report and Environmental Impact Statement**

**Atlantic Coast of New York**

**East Rockaway Inlet to  
Rockaway Inlet and Jamaica Bay**

## **Sub Appendix A2-B: HFFRRF Phase 2 Projects**

**US Army Corps of Engineers**



## B. SUB-APPENDIX A2-B: HFFRRF PHASE 2 PROJECTS AND PROJECT MAPS

The table below list all Phase 2 projects on a reach by reach basis.

RPV = Rockaway Peninsula Vicinity

FCV = Fresh Creek Vicinity

NCV = Nassau County Vicinity

Subsequent pages display plan view maps of each of the Phase 2 projects.

**Table B-1: Phase 2 Reach by Reach Project Data**

Project Location	Reach-ID	Feature Type	Length (ft)	Approx. Ground Elevation	Design Elevation	Feature Top Elevation
Mid-Rockaway Backbay with NNBFs	RPV-081-a	Low Berm	278	4.0	7.8	8.0
	RPV-081-aa	Hybrid Berm	299	4.5	7.8	8.0
	RPV-081-b	Medium Berm	585	4.0	9.4	9.5
	RPV-081-c	Medium Berm	65	4.0	9.4	9.5
	RPV-081-d	Medium Berm	855	4.0	9.4	9.5
	RPV-081-e	Hybrid Berm	161	5.0	9.4	9.5
	RPV-081-f	Hybrid Berm	334	5.0	9.4	9.5
	RPV-082-a	Hybrid Berm	348	5.0	9.4	9.5
	RPV-082-b	Shallow Bulkhead	40	5.0	8.8	9.0
	RPV-082-c	Hybrid Berm	233	5.0	9.4	9.5
	RPV-082-d	Shallow Bulkhead	85	5.0	8.8	9.0
	RPV-082-e	Hybrid Berm	178	5.0	9.4	9.5
	RPV-082-f	Shallow Bulkhead Urb	192	5.0	8.8	9.0
	RPV-082-g	Medium Floodwall	203	5.0	7.8	8.0
	RPV-083-a	Road Ramp	53	5.0	7.8	8.0
	RPV-084-a	Medium Floodwall	275	5.0	7.8	9.5
	RPV-084-b	High Berm	81	7.0	12.4	12.5
	RPV-084-c	Medium Berm	560	6.5	11.0	11.5
	RPV-085-a	High Floodwall	664	5.0	11.0	11.5
	RPV-085-b	Low Berm	849	5.0	7.8	8.0
	RPV-085-c	Low Berm	69	5.0	7.8	8.0
	RPV-085-d	Low Berm	313	5.0	7.8	8.0
	RPV-091-a	Low Berm	653	6.0	9.5	9.5
	RPV-091-b	Low Berm	60	6.0	9.5	9.5
	RPV-091-c	Low Berm	366	6.0	9.5	9.5





Mid-  
Rockaway  
Backbay with  
NNBFs

RPV-091-d	Low Floodwall	524	5.0	7.9	8.0
RPV-091-e	Road Ramp	40	5.0	7.9	8.0
RPV-091-f	Low Floodwall	622	5.0	7.9	8.0
RPV-091-g	Revetment	150	5.5	10.5	10.5
RPV-091-h	Revetment	26	5.5	10.5	10.5
RPV-091-i	Shallow Bulkhead	380	5.5	11.1	11.5
RPV-091-j	Revetment	538	5.5	10.5	10.5
RPV-092-a	Revetment	273	5.5	10.5	10.5
RPV-092-b	Deep Bulkhead	318	5.5	11.1	11.5
RPV-093-a	Low Berm	1415	5.0	7.8	8.0
RPV-093-b	Hybrid Berm	292	6.0	8.0	8.0
RPV-094-a	Shallow Bulkhead	176	5.5	9.5	10.0
RPV-094-b	Shallow Bulkhead	69	5.5	9.5	10.0
RPV-094-c	Shallow Bulkhead	716	5.5	9.5	10.0
RPV-094-d	Shallow Bulkhead Urb	146	5.5	9.5	10.0
RPV-094-e	Shallow Bulkhead Urb	54	5.5	9.5	10.0
RPV-094-f	Shallow Bulkhead	345	5.5	9.5	10.0
RPV-094-g	Shallow Bulkhead Urb	694	5.5	11.0	11.5
RPV-094-i	Shallow Bulkhead	119	5.5	11.0	11.5
RPV-094-j	Shallow Bulkhead	135	5.5	11.0	11.5
RPV-094-k	Medium Floodwall	118	4.0	11.5	11.5
RPV-095-a	Medium Berm	1138	7.0	12.4	12.5
RPV-096-a	High Floodwall	439	5.5	11.0	11.5
RPV-097-a	Deep Bulkhead	267	5.0	11.0	11.5
RPV-111-a	Low Floodwall	281	5.5	8.9	9.0
RPV-111-b	Low Floodwall	50	5.5	8.9	9.0
RPV-111-c	Low Floodwall	296	5.5	8.9	9.0
RPV-111-d	Low Floodwall	54	5.5	8.9	9.0
RPV-111-e	Low Floodwall	21	5.5	8.9	9.0
RPV-111-f	Deep Bulkhead	536	6.0	11.1	11.5
RPV-111-g	Low Floodwall	195	6.0	7.9	8.0
RPV-111-h	Road Ramp	37	6.0	7.9	8.0
RPV-111-i	Low Floodwall	820	6.0	7.9	8.0
RPV-111-j	Vehicular Gate	25	6.0	7.9	8.0
RPV-111-k	Low Floodwall	237	6.0	7.9	8.0
RPV-111-l	Road Ramp	34	6.0	7.9	8.0
RPV-111-m	Low Floodwall	67	6.0	11.1	11.5
RPV-111-n	Medium Floodwall	247	6.0	11.1	11.5
RPV-113-a	Road Ramp	33	6.0	7.9	8.0
RPV-113-b	Low Floodwall	303	6.0	7.9	8.0
RPV-113-c	Road Ramp	40	6.0	7.9	8.0
RPV-113-d	Low Floodwall	434	6.0	7.9	8.0



Mid-Rockaway Backbay with NNBFs	RPV-113-e	Road Ramp	44	6.0	7.9	8.0
	RPV-113-f	Low Floodwall	545	6.0	7.9	8.0
	RPV-121-b	Low Floodwall	125	5.0	7.8	8.0
	RPV-122-a	Road Ramp	31	5.0	7.8	8.0
	RPV-123-a	Low Floodwall	474	5.0	7.8	8.0
	RPV-123-b	Road Ramp	30	5.0	7.8	8.0
	RPV-123-c	Low Floodwall	185	5.0	7.8	8.0
	RPV-123-d	Road Ramp	40	5.0	7.8	8.0
	RPV-124-a	Low Floodwall	214	5.0	7.8	8.0
	RPV-124-b	Low Floodwall	16	5.0	7.8	8.0
	RPV-124-c	Low Floodwall	253	5.0	7.8	8.0
Motts Basin North	RPV-072-a	Low Floodwall	536	6.0	7.7	8.0
	RPV-072-b	Medium Floodwall	47	6.0	7.7	8.0
	RPV-072-c	Low Floodwall	105	6.0	7.7	8.0
Canarsie	FCV-067-a	Revetment	562	6.0	9.5	9.5
	FCV-067-b	Low Floodwall	612	6.0	8.0	8.0
	FCV-067-c	Low Floodwall	48	6.0	8.0	8.0
	FCV-067-d	Low Floodwall	751	6.0	8.0	8.0
	FCV-067-e	Low Floodwall	29	6.0	8.0	8.0
	FCV-067-f	Low Floodwall	266	6.0	8.0	8.0
	FCV-067-g	Revetment	238	6.0	9.4	9.5
	FCV-067-h	Revetment	52	6.0	9.4	9.5
	FCV-067-i	Revetment	234	6.0	9.4	9.5
Cedarhurst-Lawrence	NCV-010-a	Deep Bulkhead	286	4.0	9.7	10.0
	NCV-010-b	Deep Bulkhead	192	4.0	9.7	10.0
	NCV-010-c	Deep Bulkhead	57	4.0	9.7	10.0
	NCV-010-d	Deep Bulkhead	43	4.0	9.7	10.0
	NCV-010-e	Deep Bulkhead	385	4.0	9.7	10.0
	NCV-010-f	Medium Floodwall	23	5.5	9.7	10.0







Project Alignments (v20180717)

### HFFRR-Feature

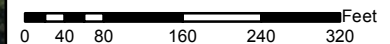
 Low Floodwall

☒ Revetment

20% AEP (5yr RP) Flood Extents  
(2068)

City Street

— Alley







## Legend

### Project Alignments (v20180717)

#### HFFRR-Feature

Low Floodwall

20% AEP (5yr RP) Flood Extents (2068)

City Street

Alley







## Legend

### Project Alignments (v20180717)

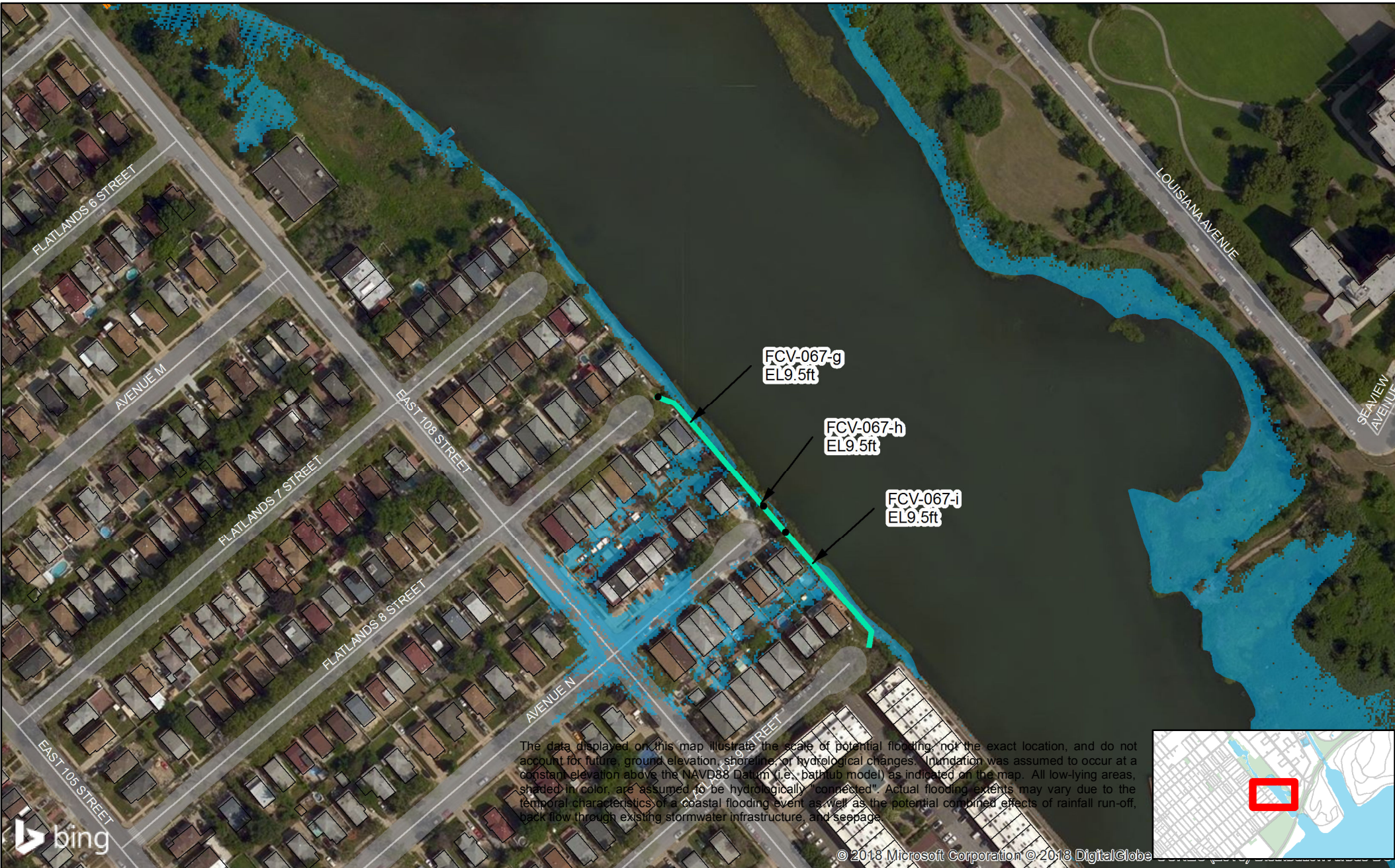
#### HFFRR-Feature

Low Floodwall

Revetment

20% AEP (5yr RP) Flood Extents (2068)

City Street



The data displayed on this map illustrate the scale of potential flooding, not the exact location, and do not account for future, ground elevation, shoreline, or hydrological changes. Inundation was assumed to occur at a constant elevation above the NAVD88 Datum (i.e., bathtub model) as indicated on the map. All low-lying areas, shaded in color, are assumed to be hydrologically "connected". Actual flooding extents may vary due to the temporal characteristics of a coastal flooding event as well as the potential combined effects of rainfall run-off, back flow through existing stormwater infrastructure, and seepage.



0 40 80 160 240 320 Feet





## Legend

### Project Alignments

HFFRR-Feature

Low Floodwall

Medium Floodwall

20% AEP (5yr RP) Flood Extents (2068)

### Nassau County

Nassau County Streets

City Street




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## Legend

 Proposed Pump Station Locations





### NNBF Gains Areas


#### Planting


-  Scrub-shrub
-  Smooth Cordgrass

### Project Alignments

#### HFFRR-Feature

-  Rock Sill
-  Low Berm
-  Medium Berm
-  Hybrid Berm

 20% AEP (5yr RP) Flood Extents (2068)

 City Street

 Railroad Track

Smooth Cordgrass  
Excav = 0ft.  
Fill = 1ft

Scrub-shrub  
Excav = 2ft.  
Fill = 0ft

RPV-081-aa  
EL9.5ft

RPV-081-a  
EL8ft

RPV-081-b  
EL9.5ft

RPV-081-c  
EL9.5ft

RPV-081-d  
EL9.5ft

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0 40 80 160 240 320 Feet





## Legend

Proposed Pump Station Locations

### NNBF Gains Areas (20180717)

#### Planting

- Salt Meadow Hay
- Scrub-shrub
- Smooth Cordgrass

### Project Alignments (v20180717)

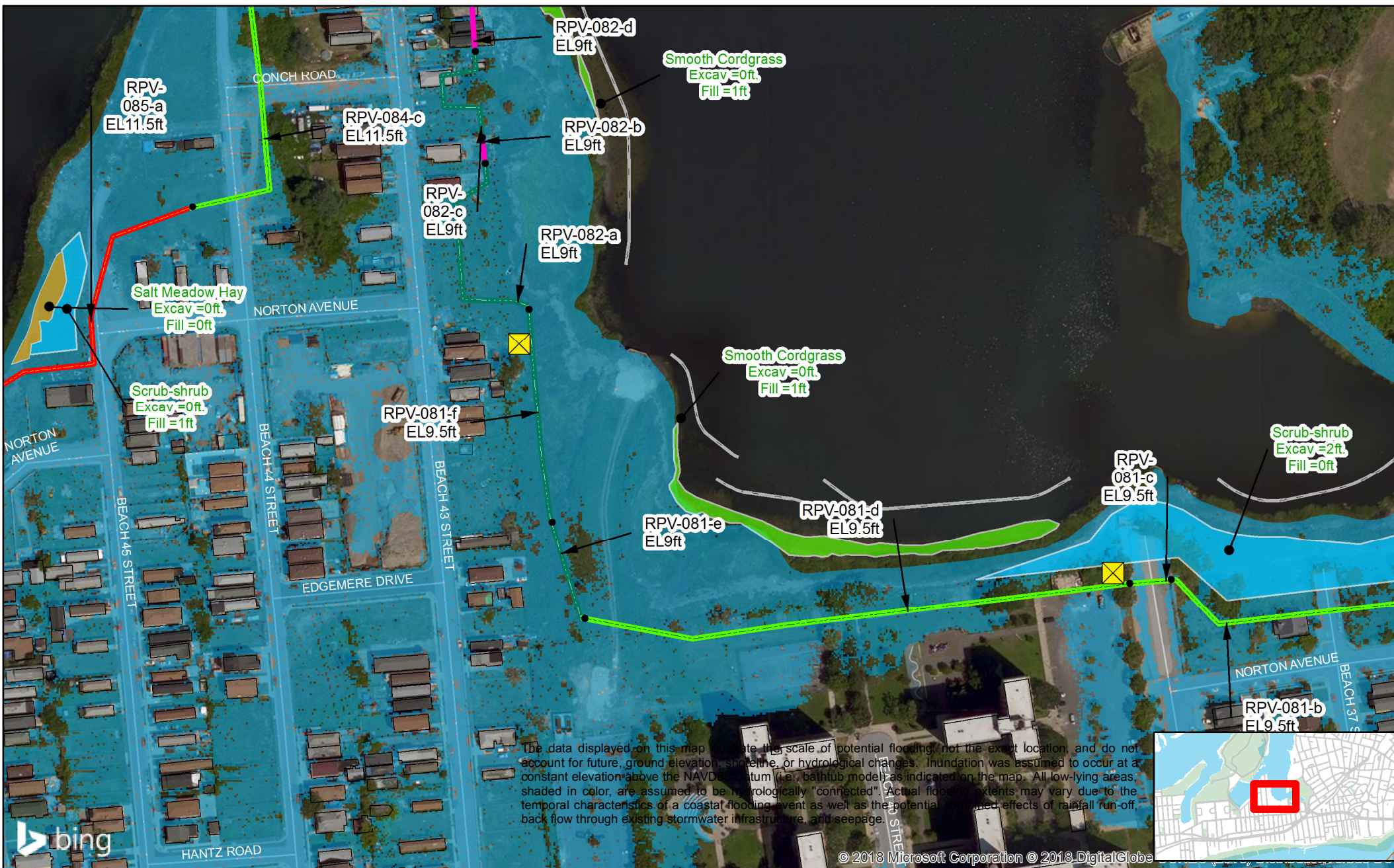
#### HFFRR-Feature

- Rock Sill
- High Floodwall
- Medium Berm
- Hybrid Berm
- Shallow Bulkhead

20% AEP (5yr RP) Flood Extents (2068)

City Street

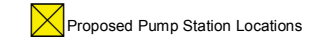
0 40 80 160 240 320 Feet







## Legend



### NNBF Gains Areas (20180717)

#### Planting

- Salt Meadow Hay
- Scrub-shrub
- Smooth Cordgrass

### Project Alignments (v20180717)

#### HFFRR-Feature

- Rock Sill
- Medium Floodwall
- High Floodwall
- Medium Berm
- High Berm
- Hybrid Berm
- Shallow Bulkhead
- Shallow Bulkhead Urban
- Road Ramp
- 20% AEP (5yr RP) Flood Extents (2068)
- City Street
- Physical Non-Street Feature




The data displayed on this map illustrate the scale of potential flooding, not the exact location, and do not account for future, ground elevation, shoreline, or hydrological changes. Inundation was assumed to occur at a constant elevation above the NAVD83 Datum (i.e., bathtub model) as indicated on the map. All low-lying areas, shaded in color, are assumed to be hydrologically "connected". Actual flooding extents may vary due to the temporal characteristics of a coastal flooding event as well as the potential combined effects of rainfall, back flow through existing stormwater infrastructure, and seepage.







## Legend

 Proposed Pump Station Locations







### NNBF Gains Areas (20180717)

#### Planting

 Salt Meadow Hay  
 Scrub-shrub

### Project Alignments (v20180717)

#### HFFRR-Feature

 Rock Sill  
 High Floodwall  
 Low Berm  
 Hybrid Berm  
 20% AEP (5yr RP) Flood Extents (2068)  
 City Street




0 40 80 160 240 320 Feet






## Legend

 Proposed Pump Station Locations


### NNBF Gains Areas (20180717)

#### Planting


 Salt Meadow Hay

### Project Alignments (v20180717)

#### HFFRR-Feature

 Rock Sill


 Low Floodwall


 Low Berm


 Shallow Bulkhead


 Revetment

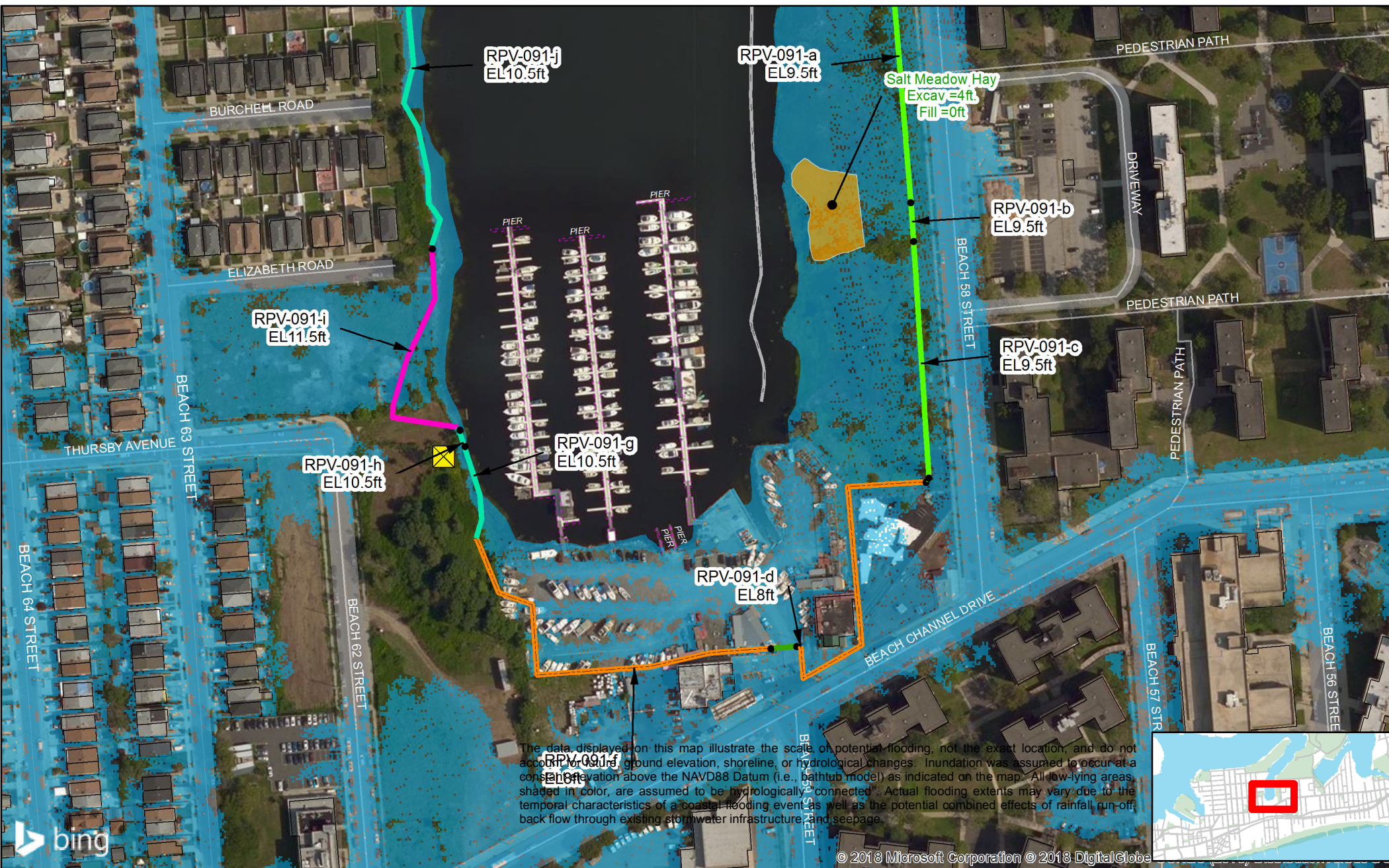
 Road Ramp

 20% AEP (5yr RP) Flood Extents (2068)

 City Street

 Private Street; 6, V

 Physical Non-Street Feature







## Legend

Proposed Pump Station Locations

### NNBF Gains Areas (20180717)

#### Planting

- Canopy Tree
- Smooth Cordgrass

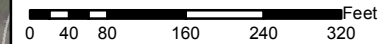
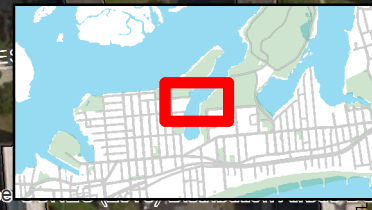
### Project Alignments (v20180717)

#### HFFRR-Feature

- Rock Sill
- Low Berm
- Deep Bulkhead
- Revetment
- 20% AEP (5yr RP) Flood Extents (2068)
- City Street
- Private Street; 6, V




The data displayed on this map illustrate the scale of potential flooding, not the exact location, and do not account for future, ground elevation, shoreline, or hydrological changes. Inundation was assumed to occur at a constant elevation above the NAVD88 Datum (i.e., bathtub model) as indicated on the map. All low-lying areas, shaded in color, are assumed to be hydrologically "connected". Actual flooding extents may vary due to the temporal characteristics of a coastal flooding event as well as the potential combined effects of rainfall run-off, back flow through existing stormwater infrastructure, and seepage.










## Legend

 Proposed Pump Station Locations







### NNBF Gains Areas (20180717)


#### Planting


-  Canopy Tree
-  Salt Meadow Hay
-  Smooth Cordgrass


### Project Alignments (v20180717)

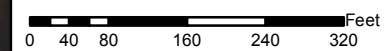
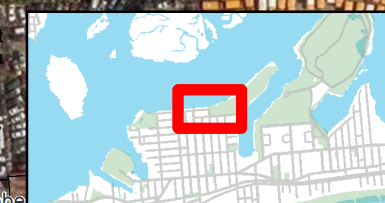
#### HFFRR-Feature

-  Rock Sill
-  Low Berm
-  Hybrid Berm
-  Shallow Bulkhead
-  Shallow Bulkhead Urban
-  Revetment

 20% AEP (5yr RP) Flood Extents (2068)

 City Street

 Private Street; 6, V







## Legend

Proposed Pump Station Locations

### NNBF Gains Areas

#### Planting

- Canopy Tree
- Salt Meadow Hay
- Scrub-shrub
- Smooth Cordgrass

### Project Alignments

#### HFRR-Feature

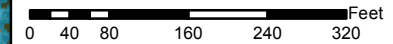
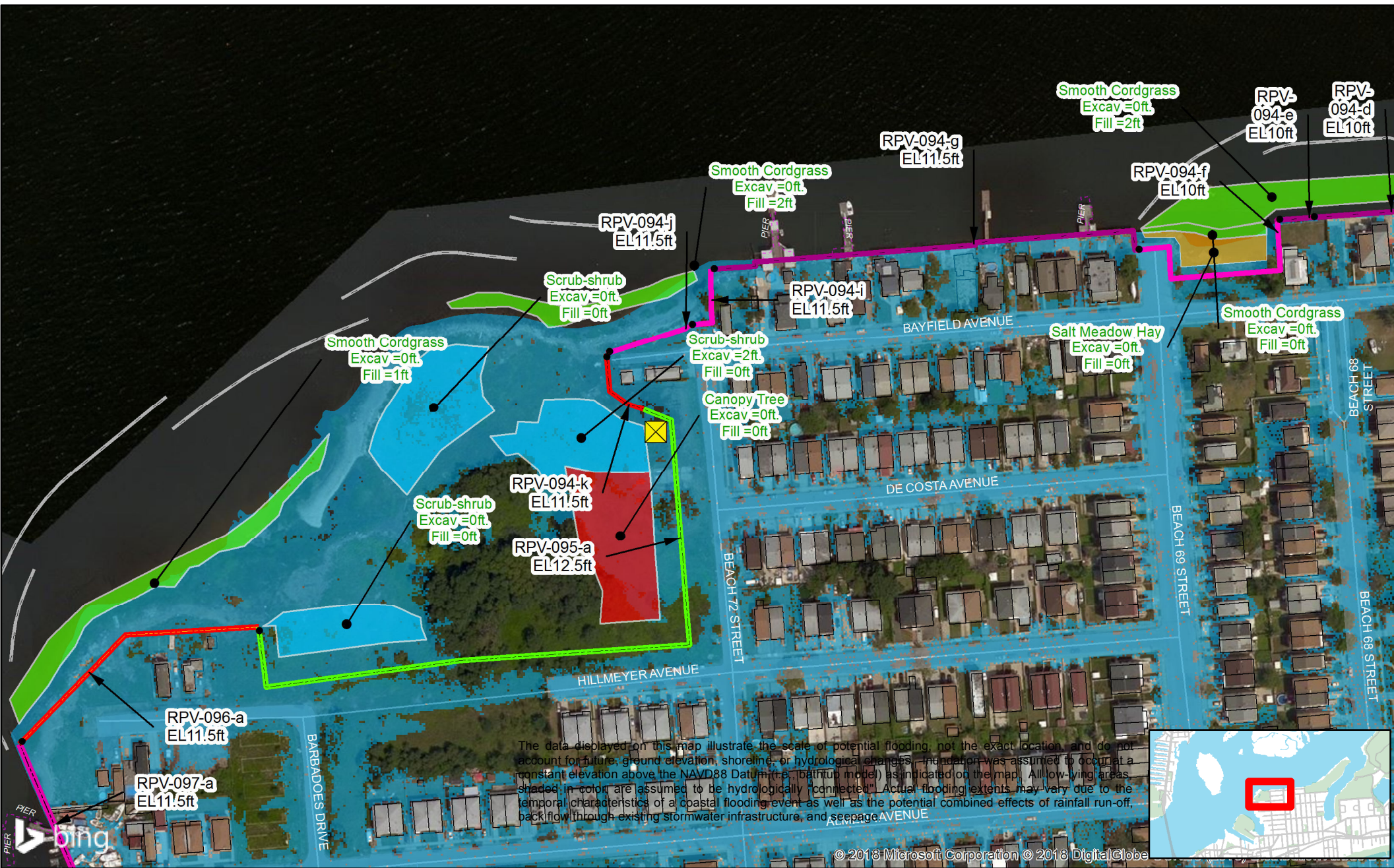
- Rock Sill
- Medium Floodwall
- High Floodwall
- Medium Berm
- Deep Bulkhead
- Shallow Bulkhead
- Shallow Bulkhead Urban

20% AEP (5yr RP) Flood Extents (2068)

City Street

Physical Non-Street Feature

Alley







## Legend

### NNBF Gains Areas

#### Planting

Smooth Cordgrass

### Project Alignments

#### HFFRR-Feature

Rock Sill

Low Floodwall

High Floodwall

Medium Berm

Deep Bulkhead

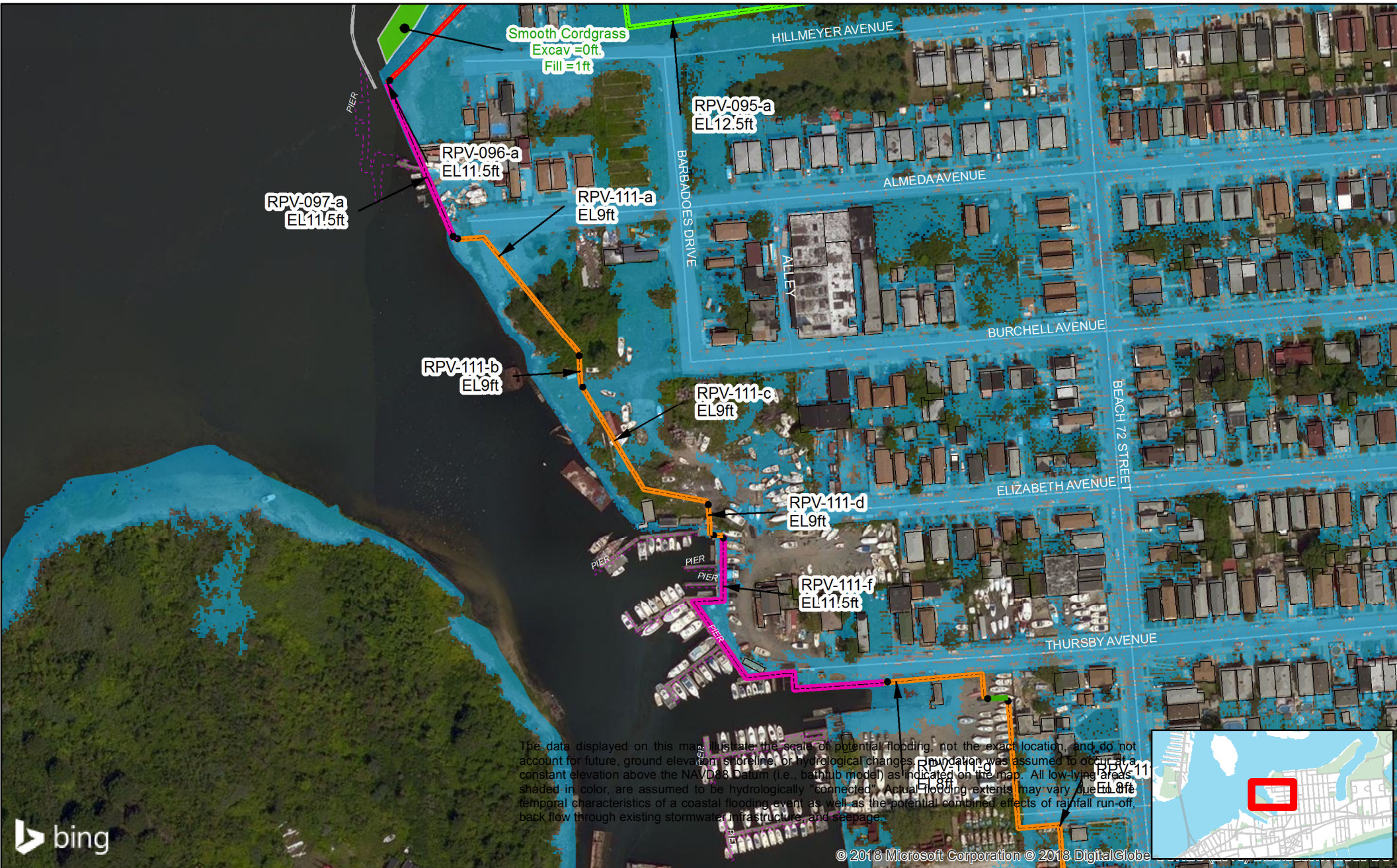
Road Ramp

20% AEP (5yr RP) Flood Extents (2068)

City Street

Physical Non-Street Feature

Alley







## Legend

### Project Alignments

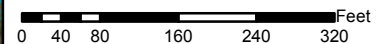
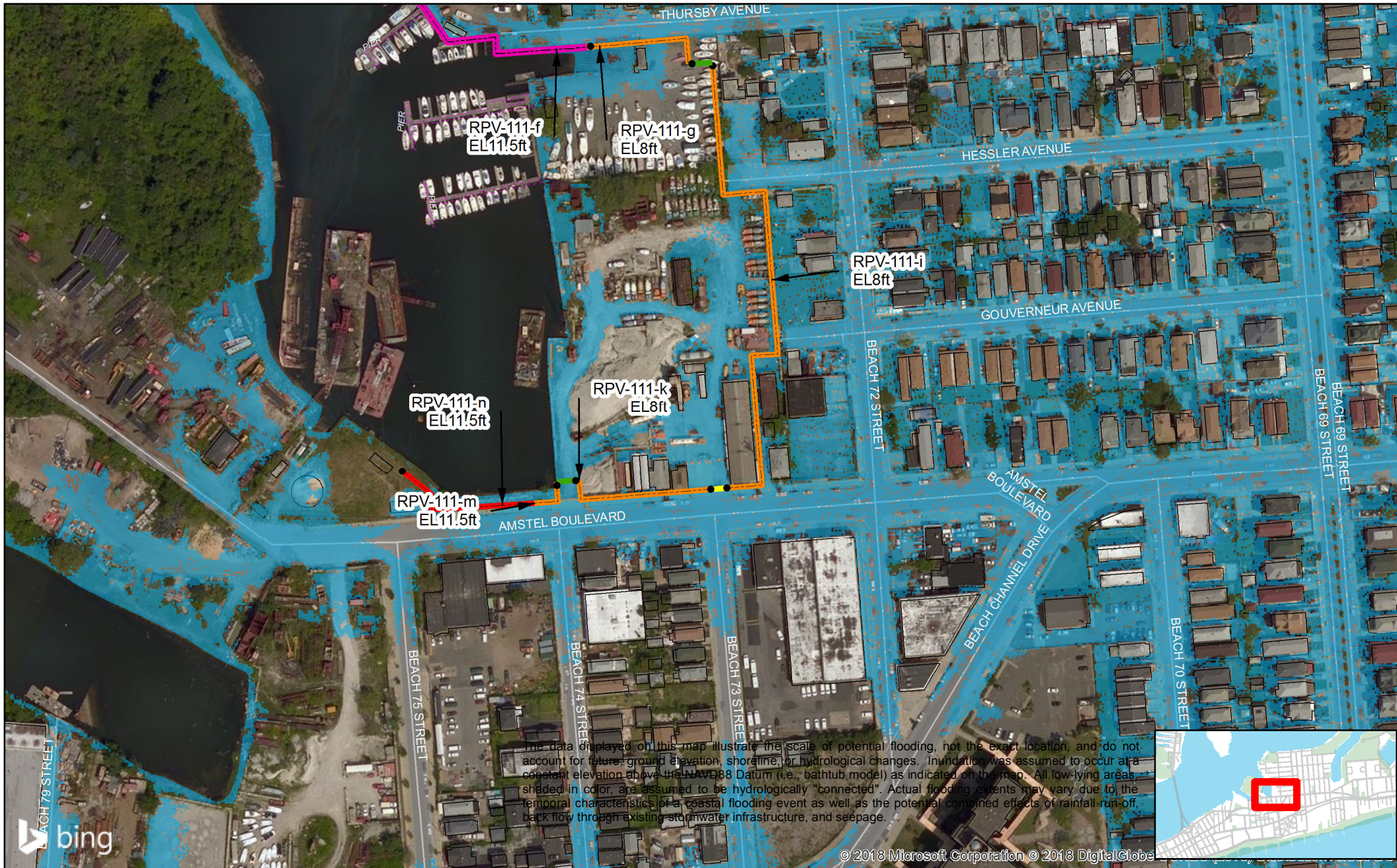
#### HFFRR-Feature

- Low Floodwall
- Medium Floodwall
- Deep Bulkhead
- Vehicular Gate
- Road Ramp

20% AEP (5yr RP) Flood Extents (2068)

City Street


Physical Non-Street Feature









## Legend


 Proposed Pump Station Locations


## Project Alignments


**HFFRR-Feature**


 Low Floodwall

 Medium Floodwall


 Road Ramp

 20% AEP (5yr RP) Flood Extents (2068)


 City Street

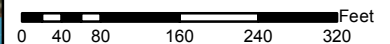
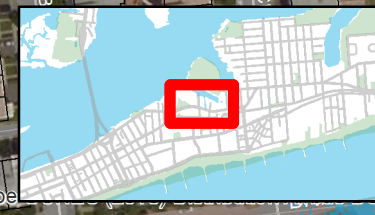
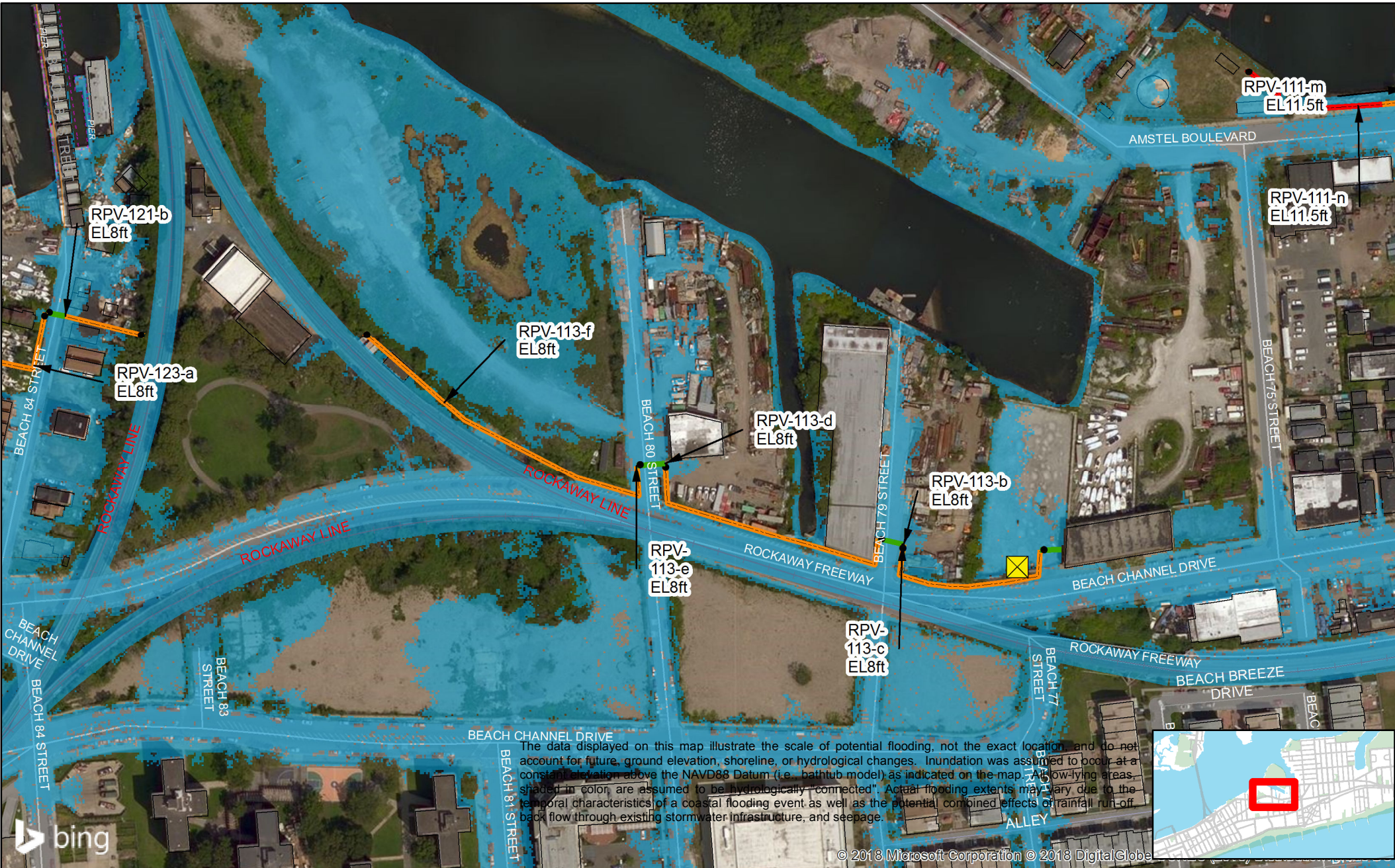
 Railroad Track

 Private Street; 6, V

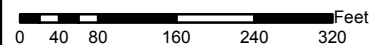
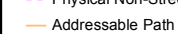
 Physical Non-Street Feature

 Alley

 Addressable Path














## Legend


 Proposed Pump Station Locations

## Project Alignments (v20180717)

HFFRR-Feature

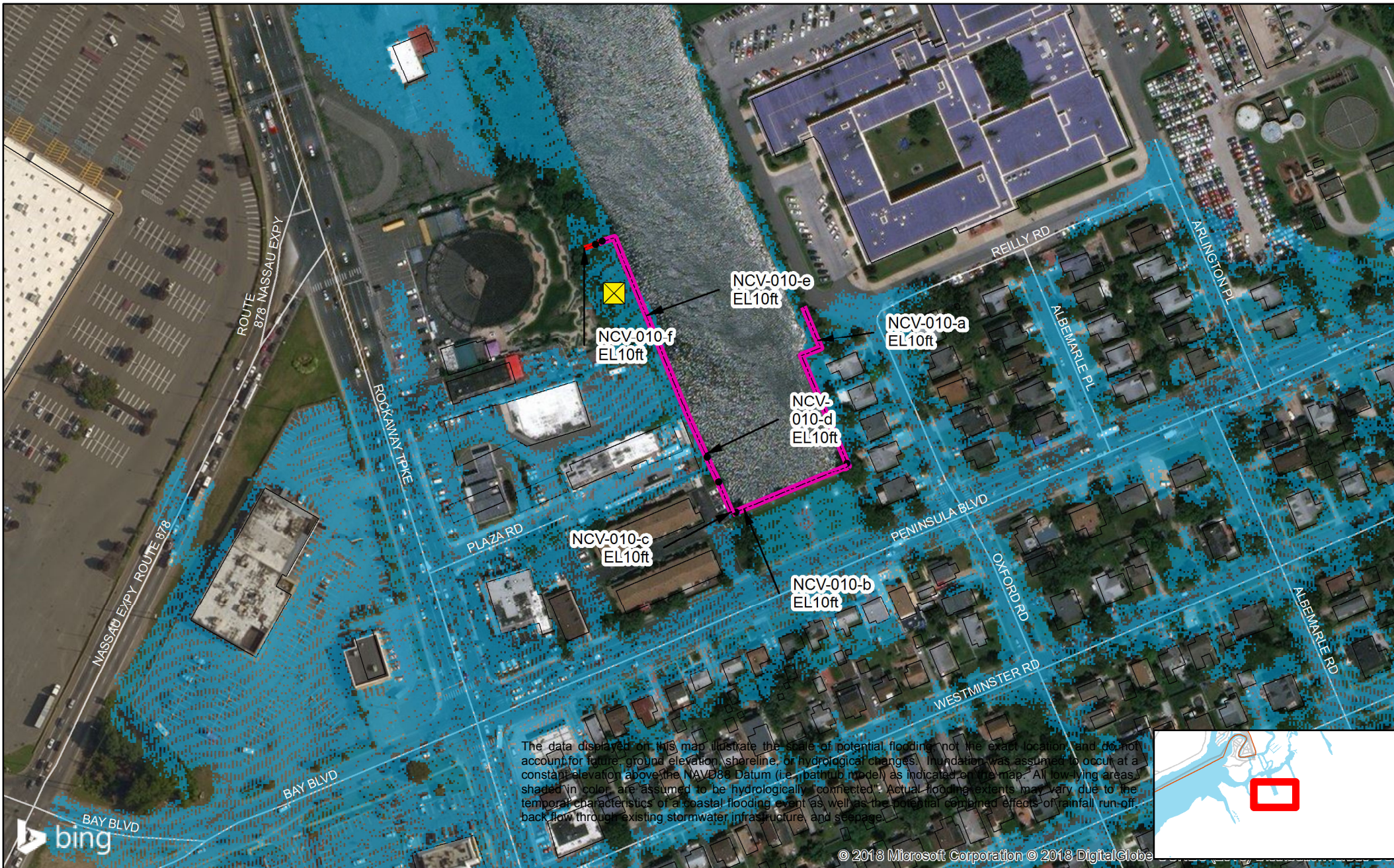
 Medium Floodwall

 Deep Bulkhead

 20% AEP (5yr RP) Flood Extents (2068)

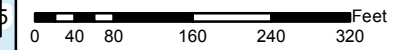
## Nassau County Streets

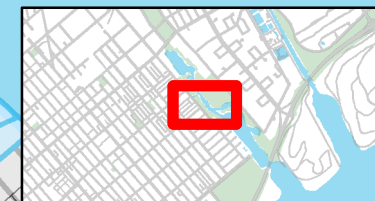
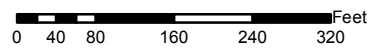
Nassau County Streets



0 40 80 160 240 320 Feet









## Legend

### Project Alignments

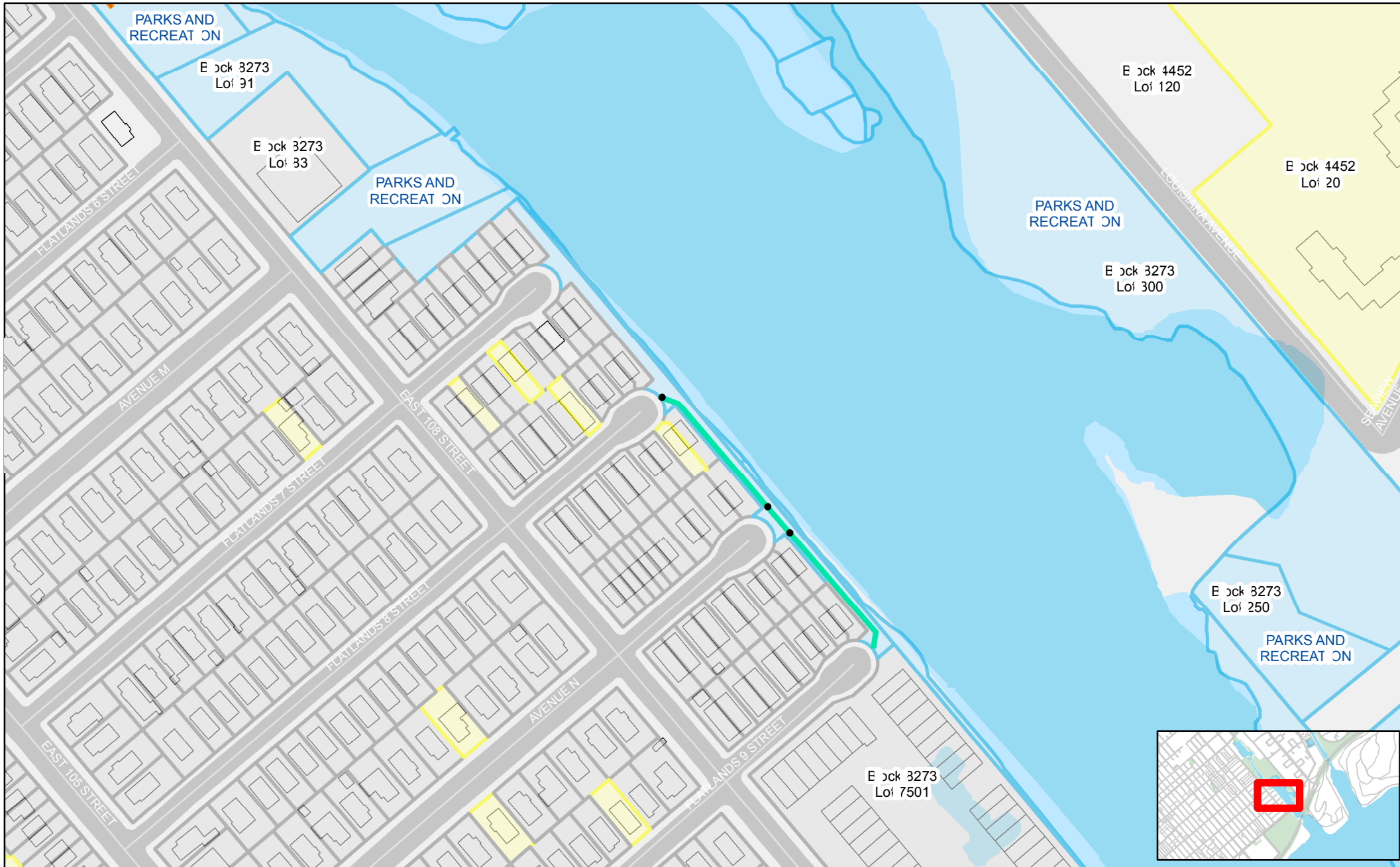
- HFFRR-Feature**
- Low Floodwall
  - Revetment

### PLTBrooklyn

#### OwnType

- City
- Private
- City Street

0 40 80 160 240 320 Feet







# Motts Basin N

4 B



## Legend

### Project Alignments

- HFFRR-Feature**
- Low Floodwall
  - Medium Floodwall

### PLTQueens

#### OwnType


- City
- Nassau County Streets
- City Street
- Work Area
- Perpetual Easement

0 40 80 160 240 320 Feet







## Legend

 Proposed Pump Station Locations





## NNBF Gains Areas (20180717)

### Planting

 Scrub-shrub  
 Smooth Cordgrass

## Project Alignments (v20180717)

### HFFRR-Feature

 Rock Sill  
 Low Berm  
 Medium Berm  
 Hybrid Berm

## PLTQueens

### OwnType

 City  
 Private  
 City Street  
 Railroad Track  
 Work Area Easement  
 Perpetual Easement


0 40 80 160 240 320 Feet










## Legend

 Proposed Pump Station Locations




## NNBF Gains Areas

### Planting

-  Salt Meadow Hay
-  Scrub-shrub
-  Smooth Cordgrass






## Project Alignments

### HFFRR-Feature

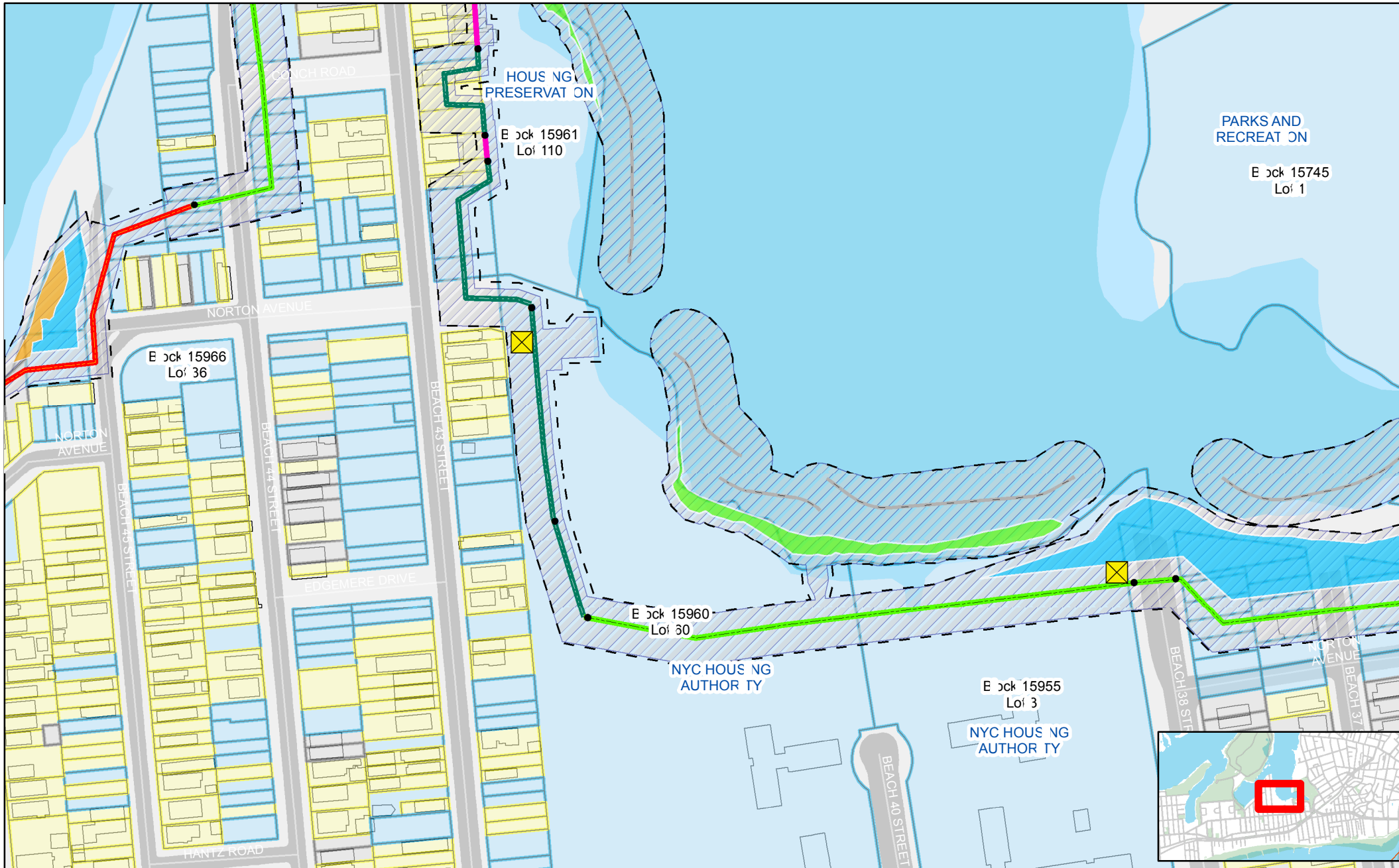
-  Rock Sill
-  High Floodwall
-  Medium Berm
-  Hybrid Berm
-  Shallow Bulkhead

## PLTQueens

### OwnType


-  City
-  Private
-  City Street
-  Work Area
-  Perpetual Easement

0 40 80 160 240 320 Feet








## Legend

 Proposed Pump Station Locations










## NNBF Gains Areas

### Planting

-  Salt Meadow Hay
-  Scrub-shrub
-  Smooth Cordgrass

## Project Alignments

### HFFRR-Feature

-  Rock Sill
-  Medium Floodwall
-  High Floodwall
-  Medium Berm
-  High Berm
-  Hybrid Berm
-  Shallow Bulkhead
-  Shallow Bulkhead Urban
-  Road Ramp

## PLTQueens

### OwnType

-  City
-  Private
-  City Street
-  Physical Non-Street Feature
-  Work Area
-  Perpetual Easement

Block 15980  
Lot 2

PARKS AND  
RECREATION

CONCH ROAD

BEACH 43 STREET

Block:15961  
Lot:110

NORTON AVENUE

Block 15966  
Lot 36

Block 15960  
Lot 30


NYC  
HOUSING  
AUTHORITY



0 40 80 160 240 320 Feet





## Legend

 Proposed Pump Station Locations





### NNBF Gains Areas (20180717)

#### Planting

 Salt Meadow Hay  
 Scrub-shrub





### Project Alignments (v20180717)

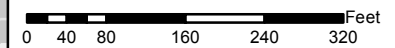
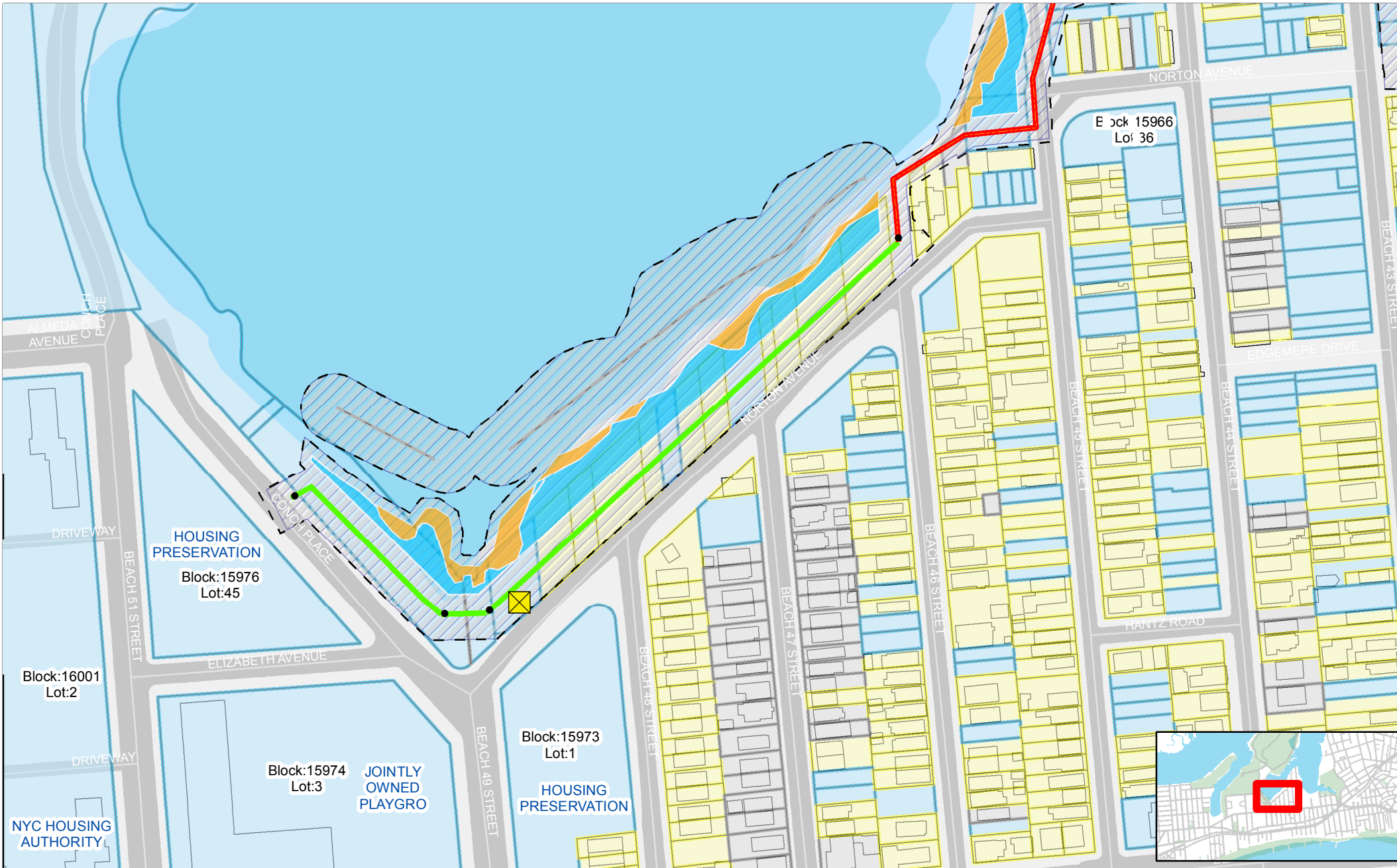
#### HFFRR-Feature

 Rock Sill  
 High Floodwall  
 Low Berm  
 Hybrid Berm

### PLTQueens

#### OwnType


 City  
 Private  
City Street  
 Work Area Easement  
 Perpetual Easement








## Legend

 Proposed Pump Station Locations

## NNBF Gains Areas (20180717)


### Planting


 Salt Meadow Hay


### Project Alignments


#### HFFRR-Feature


 Rock Sill

 Low Floodwall

 Low Berm

 Shallow Bulkhead

 Revetment

 Road Ramp


### PLTQueens


#### OwnType


 City

 Federal


 Private

 City Street

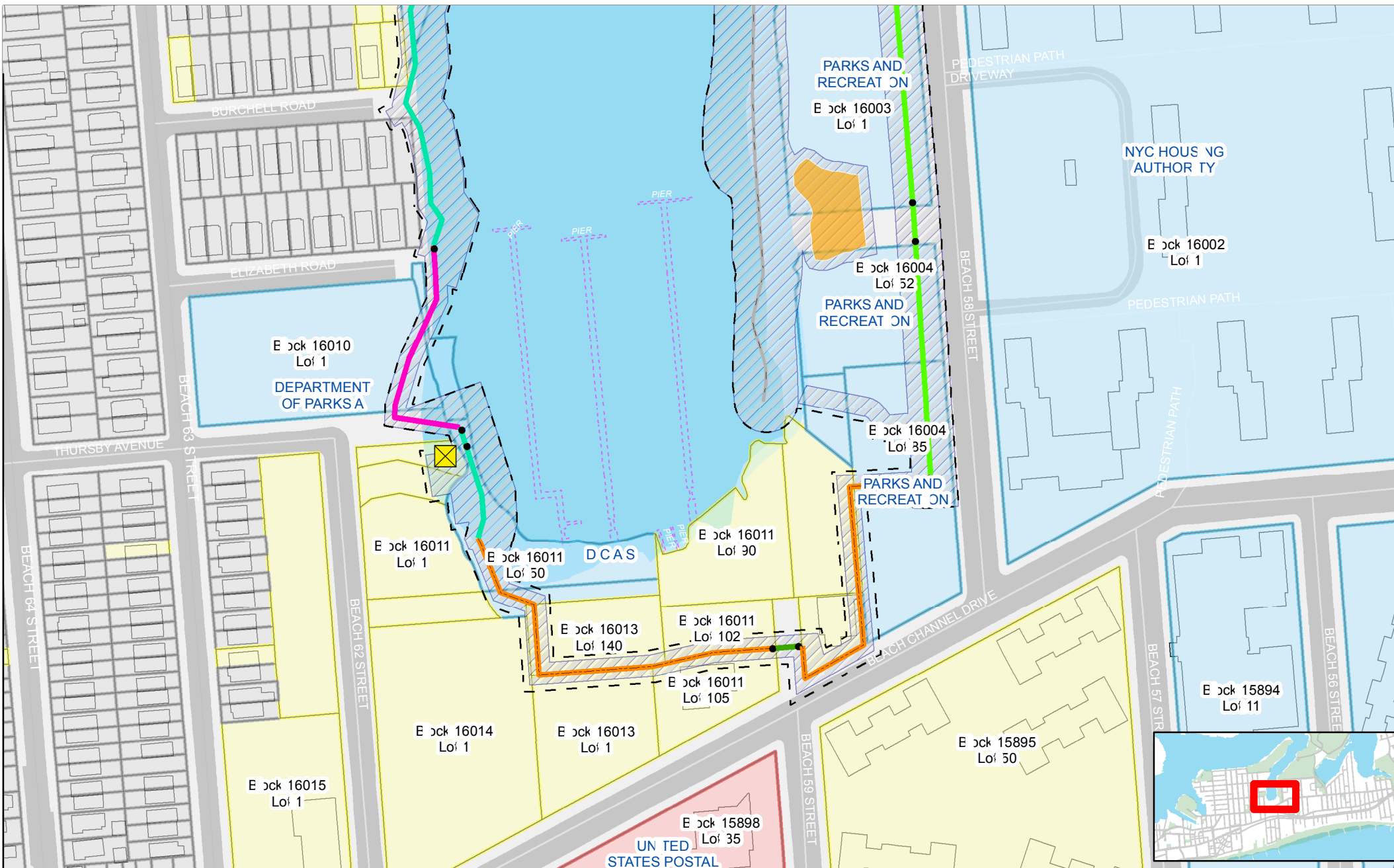
 Private Street; 6, V

 Physical Non-Street Feature

 Work Area Easement


 Perpetual Easement

0 40 80 160 240 320 Feet







## Legend

 Proposed Pump Station Locations

### NNBF Gains Areas

#### Planting

-  Canopy Tree
-  Smooth Cordgrass

### Project Alignments

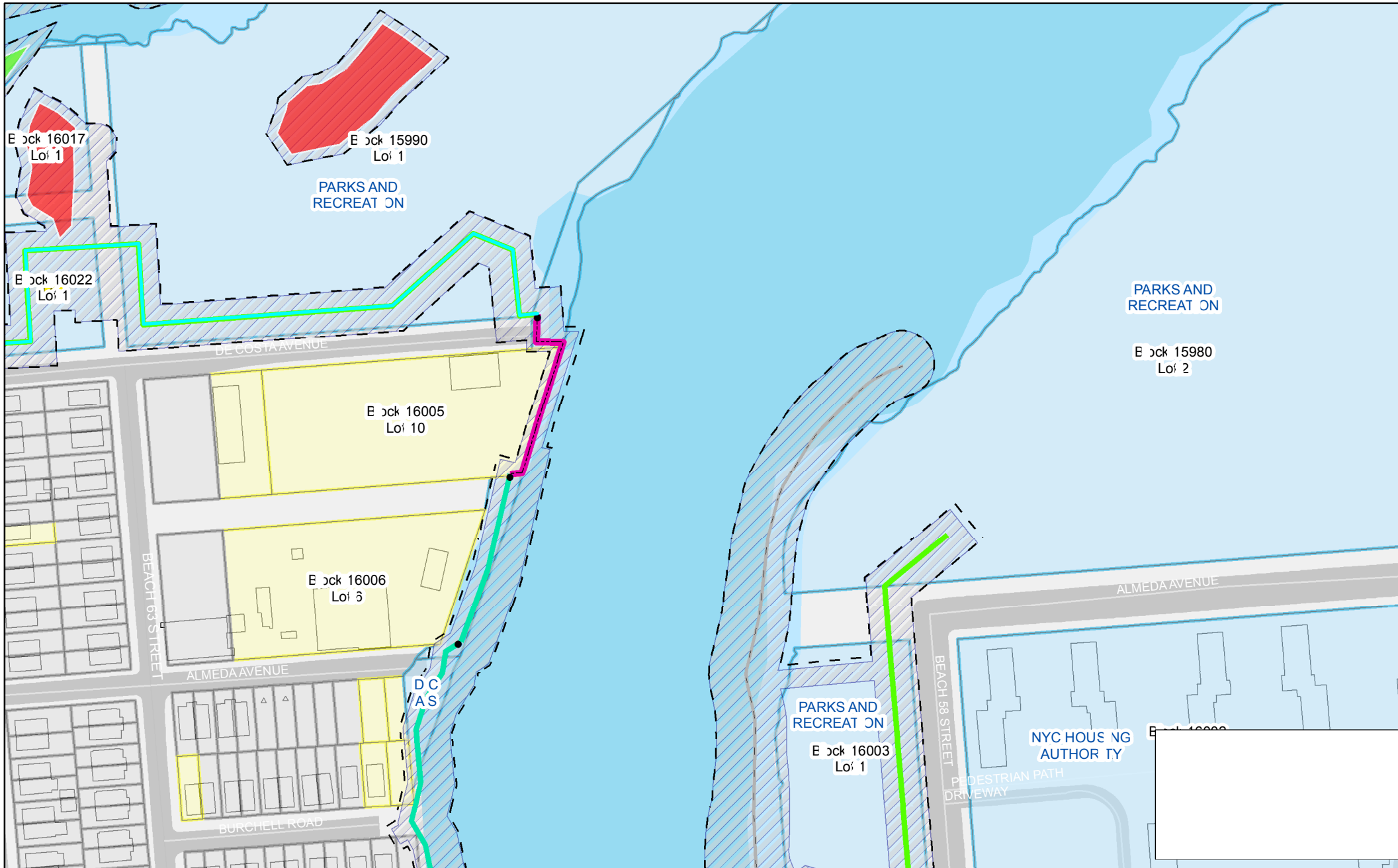
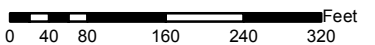
#### HFFRR-Feature

-  Rock Sill
-  Low Berm
-  Deep Bulkhead
-  Revetment

### PLTQueens

#### OwnType

-  City
-  Private
-  City Street
-  Private Street; 6, V
-  Work Area Easement
-  Perpetual Easement








## Legend

 Proposed Pump Station Locations

## NNBF Gains Areas

### Planting

-  Canopy Tree
-  Salt Meadow Hay
-  Smooth Cordgrass







## Project Alignments

### HFFRR-Feature

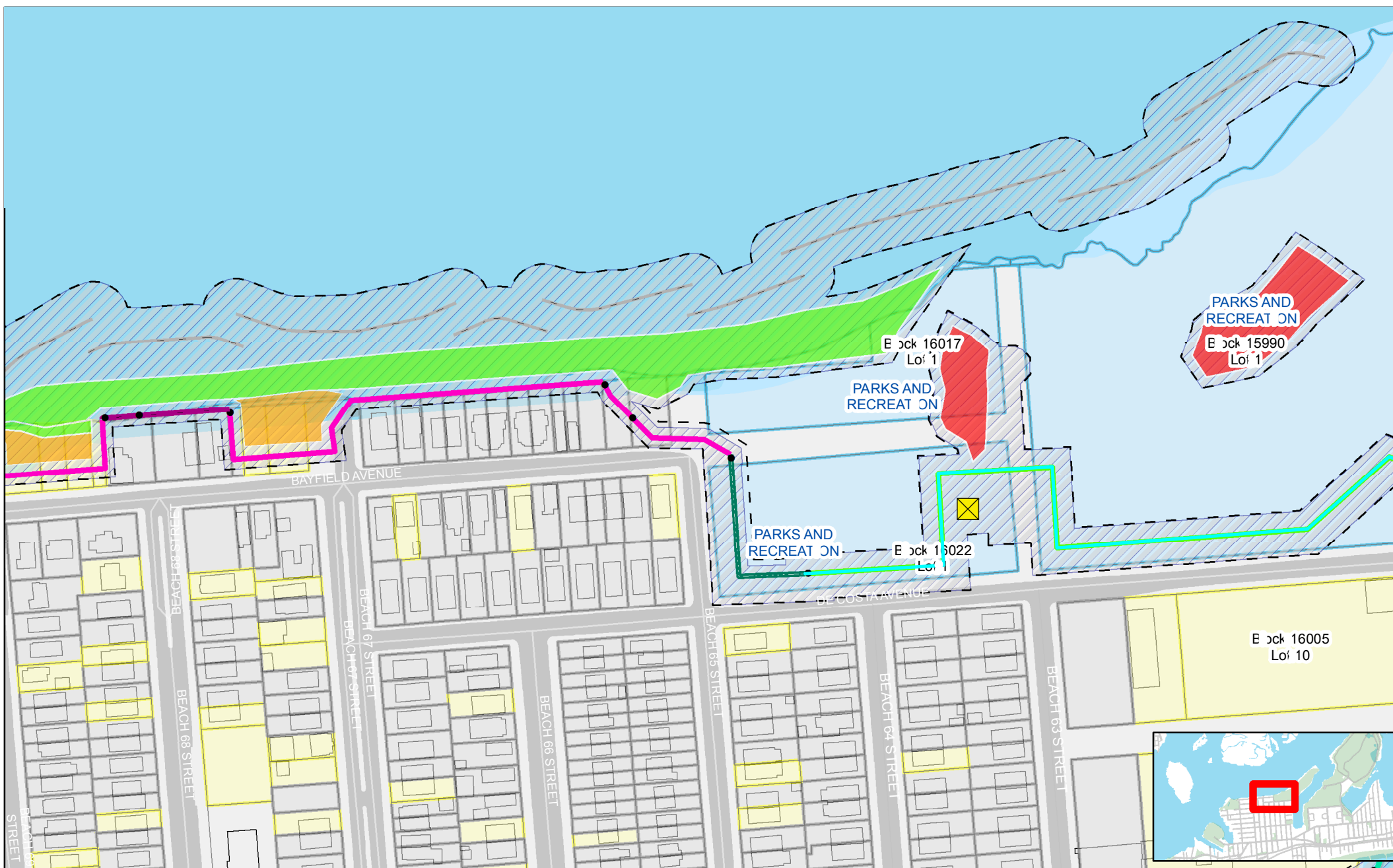
-  Rock Sill
-  Low Berm
-  Hybrid Berm
-  Shallow Bulkhead
-  Shallow Bulkhead Urban
-  Revetment

## PLTQueens

### OwnType


-  City
-  Private
-  City Street
-  Private Street; 6, V
-  Work Area
-  Perpetual Easement

0 40 80 160 240 320 Feet









## Legend

 Proposed Pump Station Locations

### NNBF Gains Areas (20180717)

#### Planting

-  Canopy Tree
-  Salt Meadow Hay
-  Scrub-shrub
-  Smooth Cordgrass







### Project Alignments (v20180717)

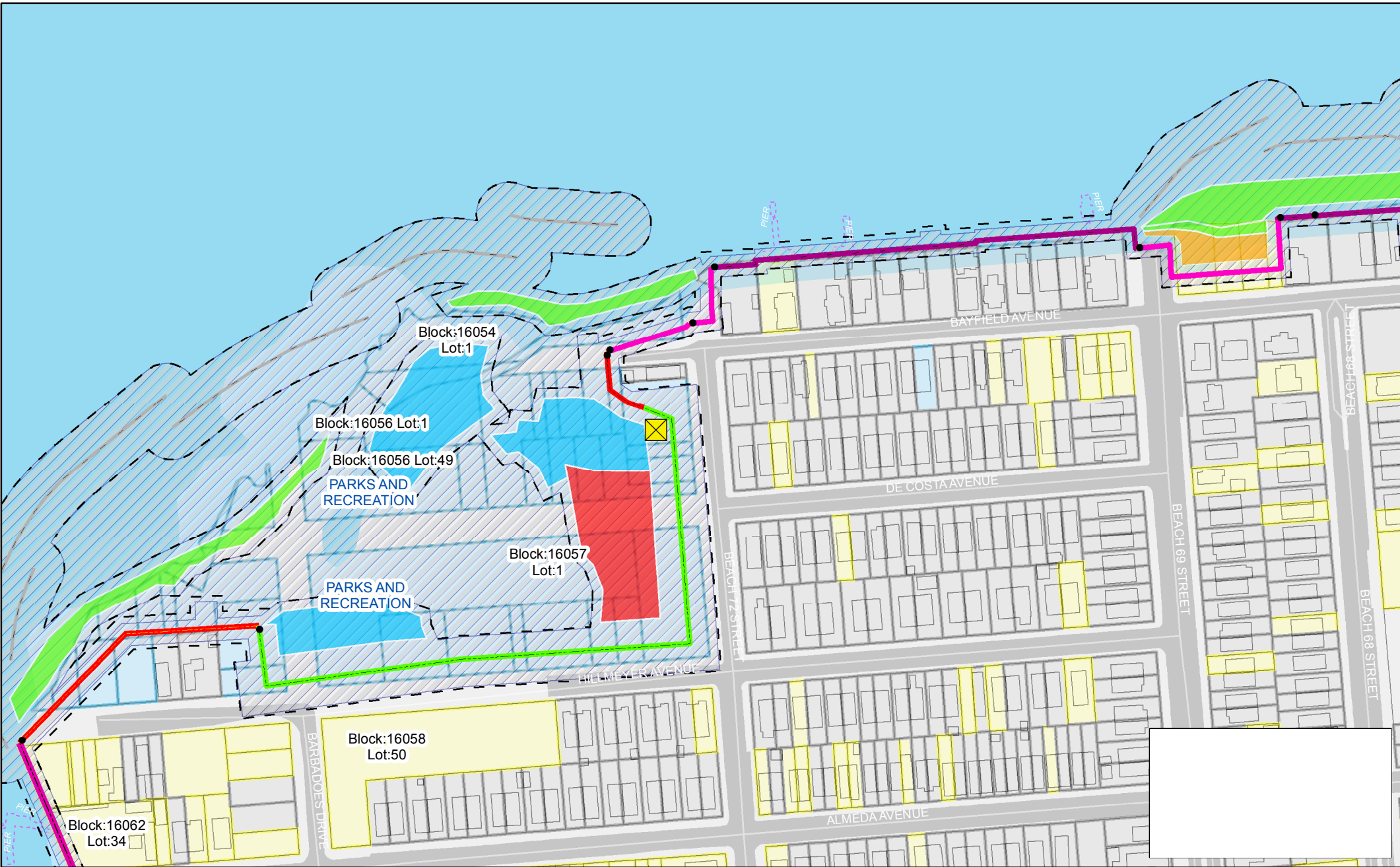
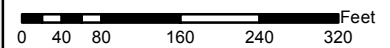
#### HFFRR-Feature

-  Rock Sill
-  Medium Floodwall
-  High Floodwall
-  Medium Berm
-  Deep Bulkhead
-  Shallow Bulkhead
-  Shallow Bulkhead Urban

### PLTQueens

#### OwnType

-  City
-  Private
-  City Street
-  Physical Non-Street Feature
-  Alley
-  Work Area Easement
-  Perpetual Easement







## Legend

### NNBF Gains Areas (20180717)

#### Planting

Smooth Cordgrass

### Project Alignments (v20180717)

#### HFFRR-Feature

Rock Sill

Low Floodwall

High Floodwall

Medium Berm

Deep Bulkhead

Road Ramp

### PLTQueens

#### OwnType

City

Private

City Street

Physical Non-Street Feature

Alley

Work Area Easement

Perpetual Easement

Block:16075  
Lot:1

PARKS AND  
RECREATION

Block:16062  
Lot:34

Block:16063  
Lot:1

Block:16063  
Lot:27

Block:16065  
Lot:1

Block:16065  
Lot:75

Block:16065  
Lot:13

Block:16066  
Lot:1

Block:16066  
Lot:57

Block:16067  
Lot:1

Block:16069  
Lot:12

Block:16058  
Lot:50

BARBOODS DRIVE

ALLEY

ALMEDA AVENUE

BURCHELL AVENUE

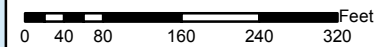
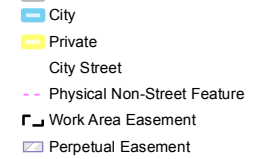
ELIZABETH AVENUE

THURSBY AVENUE

BEACH 72 STREET

0 40 80 160 240 320 Feet









## Legend

Proposed Pump Station Locations

## Project Alignments (v20180717)

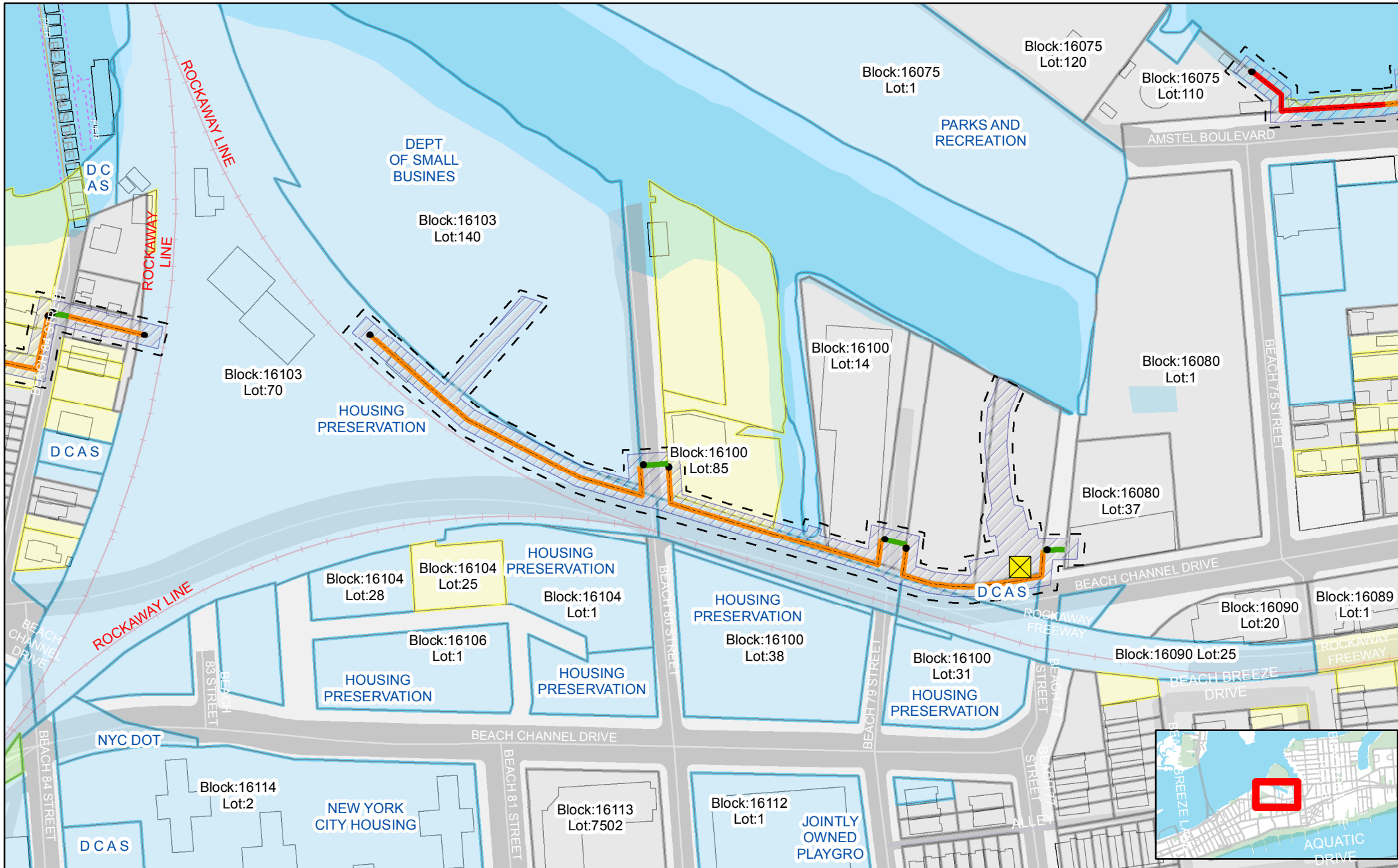
**HFFRR-Feature**

- Low Floodwall
- Medium Floodwall
- Road Ramp

## PLTQueens

### OwnType


- City
- Private
- State
- City Street
- Railroad Track
- Private Street; 6, V
- Physical Non-Street Feature
- Alley
- Addressable Path
- Work Area Easement
- Perpetual Easement









## Legend

 Proposed Pump Station Locations

## Project Alignments (v20180717)

### HFFRR-Feature


 Low Floodwall


 Road Ramp


### PLTQueens


#### OwnType


 City


 Private


 State


 City Street

 Railroad Track

 Physical Non-Street Feature

 Addressable Path

 Work Area Easement

 Perpetual Easement

0 40 80 160 240 320 Feet

