

# DEPARTMENT OF THE ARMY PERMIT

Permittee: New York City Department of Small Business Services  
Andrew Schwartz, Deputy Commissioner, Legal and Regulatory Affairs  
110 William Street  
New York, NY 10037  
Phone: 212-513-6428

Permit Number: NAN-2013-00259

Permit Date: APR 25 2017

Issuing Office: U.S. Army Corps of Engineers, New York District

**NOTE:** The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

## Project Description:

As described in the approved instrument entitled "Saw Mill Creek Pilot Wetland Mitigation Bank, Mitigation Banking Instrument," dated June 2015, discharge fill material into wetlands of the United States to facilitate construction of a wetland mitigation bank at an approximately 69 acre site within the Sandy Hook-Staten Island watershed, in the Borough of Staten Island, Richmond County, New York.

The mitigation bank will compensate for wetland and other aquatic resource losses by proposed projects within the Bank primary service area (Hydrologic Unit Code 020301) and secondary service area (Hydrologic Unit Codes 020301 and 020302) in a manner that contributes to the long-term ecological functioning of the New York Harbor Estuary, with an immediate goal of no net loss and a long-term goal of a net gain in wetland functions and services.

The approximately 69 acre site is bisected by Chelsea Road. The section west of Chelsea Road is approximately 15 acres and the section east of Chelsea Road is approximately 54 acres. Both sections will be developed into the following habitat areas:

Habitat Area Types	Western Section Acreage	Eastern Section Acreage	Total Acreage
Wetland Restoration/Rehabilitation	0.89*	15.70	16.59
Wetland Restoration/Re-establishment	3.09*	1.87	4.96

Tidal Wetland Enhancement	7.69	26.03	33.72
Forested Wetland Enhancement	0.00	1.52	1.52
Upland Slope	1.12	0.33	1.45
Buffer Rehabilitation	0.00	8.49	8.49
Total	12.79	53.94	66.73

\*Note: A total of 2.21 acres has been removed from the original Western Section Acreage Rehabilitation and Re-establishment categories. Special Condition B states that no mitigation credit shall be awarded for this 2.21 acre portion of the western section until such time at a later date when the area has been properly graded and cleaned, thereby removing 1.8 credits from the total available as listed in the table.

**West of Chelsea Road**

**Wetland Restoration/Re-establishment:** Construction/demolition debris and fill over former wetlands will be removed. The area will be graded to low and high marsh elevations. Tidal creeks will be excavated to restore tidal flow. Appropriate native vegetation will be planted. One approximately 50 foot wide stream will be created.

**Wetland Restoration/Rehabilitation:** Invasive species, debris and fill material will be removed. The area will be graded to low and high marsh elevations. Tidal creeks will be excavated to restore tidal flow. Appropriate native vegetation will be planted.

**Wetland Enhancement:** To prevent adverse impacts to existing aquatic resources, invasive species will be managed. Existing debris will be removed. To reduce future dumping, fencing and signage will be installed.

**Buffer Rehabilitation:** The forested buffer adjacent to Saw Mill Creek and Chelsea Road contains invasive species and debris which will be removed. Fencing and signage will be installed to reduce future dumping.

To facilitate construction, approximately 25,358 cubic yards of material will be excavated from approximately 6.9 acres. Excavated material will be placed at a state-approved upland location.

**East of Chelsea Road**

**Wetland Restoration/Re-establishment:** In the area of the former junkyard south of Saw Mill Creek and east of Chelsea Road, existing debris and fill will be removed to an elevation that will support low and high marsh. Remnant berms will be removed. Appropriate native vegetation will be planted.

**Wetland Restoration/Rehabilitation:** Remnant berms and high elevation areas will be excavated to tidal wetland elevations. Tidal creeks will be excavated to provide appropriate hydrologic conditions. Areas dominated by invasive species in the southern portion of the section will be graded to wetland elevation. Creeks will be re-established. Appropriate native vegetation will be planted. A salt panne area in the northeast corner will be regraded to establish connections with tidal creeks to allow appropriate hydrologic conditions during spring tides.

**Wetland Restoration/Stream Creation:** Five streams will be created, ranging in width from approximately 32 feet to 160 feet.

**Wetland Enhancement:** To prevent adverse impacts to existing aquatic resources, invasive species will be managed. Existing debris will be removed. To reduce future dumping, fencing and signage will be installed.

**Buffer Rehabilitation:** The forested buffer contains invasive species and debris which will be removed. Fencing and signage will be installed to reduce future dumping.

To facilitate construction, approximately 34,449 cubic yards of material will be excavated from approximately 17.8 acres. Excavated material will be placed at a state-approved upland location.

All work shall be performed in accordance with the attached dated permit drawings, Appendix A-Google Earth, Appendix B-Screening and Assessment of Contaminated Sediment, Appendix C-Sediment Sampling Recommendations for the Saw Mill Creek Mitigation Bank, Appendix D-Characterization and Monitoring Requirements for the Saw Mill Creek Mitigation Bank and special conditions (A) through (N) which are hereby made part of this permit, and the New York State Department of Environmental Conservation Permit No. 2-6403-00279/00001, incorporating the Section 401 Water Quality Certificate, which is hereby made a part of this permit.

**Project Location:** IN: Saw Mill Creek, tributary to Arthur Kill

AT: Borough of Staten Island, Richmond County, New York

**Permit Conditions:**

**General Conditions:**

1. The time limit for completing the work authorized ends on **APR 25 2022**.  
If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance

with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.

5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.

6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

**Special Conditions:**

(A) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

(B) No mitigation credit shall be awarded for those portions situated within the western section of Saw Mill Creek mitigation bank site, as shown in Appendix A, measuring 2.21 acres. The permittee may choose to bring these portions of the site to proper wetland elevation and then submit a request for mitigation credit to the Interagency Review Team. This request must include a brief narrative, plan and cross-section drawings showing the proper wetland elevation, a planting plan and sediment testing data showing the portions meet the criteria specified in Appendix B-June 24, 2014 New York State Department of Environmental Conservation Division of Fish, Wildlife and Marine Resources Bureau of Habitat document

entitled "Screening and Assessment of Contaminated Sediment (abbreviated as NYSDEC 2014)" with the following addition to the Sample Detection Limits and Sediment Evaluation:

1. Analyte-specific detection limits shall be below Class A sediment classification concentrations as set forth in NYSDEC 2014, with the exception that detection limits for individual PCBs and dioxin and furan congeners shall be below 1 parts per trillion (ppt).
2. Contaminant concentrations shall be demonstrated to be within or below the Class B sediment classification concentrations as set forth in NYSDEC 2014, with the exception of total PCBs (sum of congeners), for which a threshold value of 20 parts per billion (ppb) should be used.
3. Sediment exceeding Class B sediment classification concentrations shall be removed to a depth such that the Class B concentrations are achieved in each of the top 0-15 cm and 15-30 cm horizons of sediment at the final project grade. Alternatively, areas with exceedances at project depth can be capped (or excavated and capped, depending on desired final elevation) with two feet of clean material, in which case post-excavation sampling to document clean conditions is not required.
4. The sediment testing shall be done in accordance with the document entitled "Appendix C: Sediment Sampling Recommendations for the Saw Mill Creek Mitigation Bank" prepared by U.S. Fish and Wildlife Service dated November 30, 2016 and modified by the Corps on February 7, 2017 and the document entitled "Characterization and Monitoring Requirements for the Saw Mill Creek Mitigation Bank" dated January 3, 2017.

This submission shall be delivered to the following address:

Chief, Regulatory Branch  
New York District Corps of Engineers  
Jacob K. Javits Federal Building  
New York, New York 10278-0090

(C) Within 90 days of permit issuance the permittee shall submit a final sediment sampling plan to the Corps of Engineers and Interagency Review Team for review, and approval by the Corps of Engineers, upon consideration of Interagency Review Team recommendations. The final sampling plan must include the recommendations as stated in the documents entitled "Appendix C: Sediment Sampling Recommendations for the Saw Mill Creek Mitigation Bank" prepared by U.S. Fish and Wildlife Service dated November 30, 2016 and modified by the Corps on February 7, 2017 and "Appendix D-Characterization and Monitoring Requirements for the Saw Mill Creek Mitigation Bank" dated January 3, 2017.

(D) The permittee shall complete pre-construction biota sampling as follows: Within each previously-characterized WDA and the 7-acre reference site (bordered by a Transco pipeline,

railroad tracks, and River Road), the applicant shall collect fifteen mummichog, fifteen fiddler crabs, and sufficient lycosid and tetragnathid spiders and amphipods to form five composite samples of each taxon. These samples shall be chemically characterized using the analytical methodologies and detection limits as specified in the document entitled "Appendix D-Characterization and Monitoring Requirements for the Saw Mill Creek Mitigation Bank" dated January 3, 2017.

(E) Upon completion of any grading activities but prior to any planting activities, the permittee shall conduct the post-construction baseline sediment sampling as specified in the documents entitled "Appendix C: Sediment Sampling Recommendations for the Saw Mill Creek Mitigation Bank" prepared by U.S. Fish and Wildlife Service dated November 30, 2016 and modified by the Corps on February 7, 2017 and "Appendix D-Characterization and Monitoring Requirements for the Saw Mill Creek Mitigation Bank" dated January 3, 2017. Prior to any as-built credit release, the permittee must demonstrate that the project site meets the criteria as specified in the June 24, 2014 New York State Department of Environmental Conservation Division of Fish, Wildlife and Marine Resources Bureau of Habitat document entitled "Appendix B-Screening and Assessment of Contaminated Sediment (abbreviated as NYSDEC 2014)" with the following addition to the Sample Detection Limits and Sediment Evaluation:

1. Analyte-specific detection limits shall be below Class A sediment classification concentrations as set forth in NYSDEC 2014, with the exception that detection limits for individual PCBs and dioxin and furan congeners shall be below 1 parts per trillion (ppt).
2. Contaminant concentrations shall be demonstrated to be within or below the Class B sediment classification concentrations as set forth in NYSDEC 2014, with the exception of total PCBs (sum of congeners), for which a threshold value of 20 parts per billion (ppb) should be used.

(F) The permittee shall conduct all post-construction characterization and monitoring in accordance with the document entitled "Appendix D-Characterization and Monitoring Requirements for the Saw Mill Creek Mitigation Bank" dated January 3, 2017. The requirements for post-construction characterization and monitoring set forth in that document shall supersede those specified in the Saw Mill Creek Pilot Wetland Mitigation Bank, Mitigation Banking Instrument, dated June 2015.

(G) The permittee shall submit a monitoring and fence inspection plan that details the permittee's plans to prevent illegal dumping and plans to remedy dumping, should it occur. The plan shall be submitted to and approved by the Interagency Review Team prior to construction. The permittee shall address any incident of dumping or fence repair in the end of year monitoring report.

(H) The permittee shall submit a spill prevention and response plan to the Interagency Review

**Team for review and approval prior to project construction. The permittee shall coordinate the plan with the United States Coast Guard. The permittee shall notify the Interagency Review Team within 48 hours of plan implementation.**

**(I) The permittee shall undertake the authorized filling activities in a manner aimed at reducing impacts upon the general environment. In addition, the permittee shall not stockpile fill or other materials in a manner conducive to erosion, or in areas likely to cause high turbidity runoff during storm events. All exposed soils shall be re-vegetated in a timely manner to further reduce potential effects. The permittee shall temporarily fence off all wetlands and other sensitive ecological areas outside of the areas where authorized activities will take place during construction periods to prevent equipment and personnel from entering these areas. All temporarily impacted wetlands and waters of the United States shall be restored to their pre-construction conditions and re-seeded or planted with native vegetation where appropriate.**

**(J) The permittee shall notify this office in writing within 15 days of the completion of tasks stipulated on Table 4 entitled "Debiting Schedule of Available Credits" of the referenced mitigation banking instrument. Written confirmation from the Corps of Engineers of successful completion of the tasks is required prior to release of the credits. This notification shall be delivered to the following address:**

**Chief, Regulatory Branch  
New York District Corps of Engineers  
Jacob K. Javits Federal Building  
New York, New York 10278-0090**

**(K) The permittee shall assume all liability for accomplishing any corrective work should the New York District determine that the mitigation bank has not achieved the goals stipulated in the referenced mitigation banking instrument. The corrective work is not limited to the tasks stipulated in "Table 4, Debiting Schedule of Available Credits", the monitoring plan, maintenance plan or the long term maintenance of the subject banking instrument. Should a site investigation or a compliance report determine that the intended performance standards for the site have not been achieved, corrective plans, including revised construction drawings detailing the corrective work to be performed, shall be submitted to the New York District Corps Engineers for review and approval within 60 days of the site investigation, or from the date of the compliance report. If corrective measures are required, the permittee shall provide as-built construction drawings within 60 days of completing the additional work. An extension of the monitoring time may be required to cover any necessary remedial work.**

**(L) The permittee shall respond to all reasonable requests for information from the New York District Corps of Engineers, and provide necessary field support during field investigations and permit compliance inspections. Any representative of the Corps of Engineers shall be granted authorization to access the site for the purpose of site inspections.**

**(M) Subject to the requirements set forth in Special Conditions (A)-(N), the permittee shall comply with all of the terms and conditions of the "Saw Mill Creek Pilot Wetland Mitigation Bank, Mitigation Banking Instrument", dated June 2015, which is incorporated into and attached to this permit.**

**(N) The permittee shall comply with the Section 106 Programmatic Agreement among the United States Army Corps of Engineers New York District, the New York State Historic Preservation Office; the New York City Economic Development Corporation (permittee); the New York City Landmarks Preservation Commission; the Stockbridge-Munsee Community, Band of Mohican Indians; the Delaware Nation, and the Delaware Tribe of Indians dated September 2015.**

**Further Information:**

**1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:**

**(x) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S. Code 403).**

**(x) Section 404 of the Clean Water Act (33 U.S. Code 1344).**

**( ) Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).**

**2. Limits of this authorization:**

**a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.**

**b. This permit does not grant any property rights or exclusive privileges.**

**c. This permit does not authorize any injury to the property or rights of others.**

**d. This permit does not authorize interference with any existing or proposed Federal project.**

**3. Limits of Federal Liability: In issuing this permit, the Federal Government does not assume any liability for the following:**

**a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.**

**b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.**

**c. Damages to persons, property, or to other permitted or unpermitted activities or structures**



caused by the activity authorized by this permit.

d. Design or construction deficiencies associated with the permitted work.

e. Damage claims associated with any future modification, suspension, or revocation of this permit.

**4. Reliance on Applicant's Data:** The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

**5. Reevaluation of Permit Decision:** This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

a. You fail to comply with the terms and conditions of this permit.

b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).


c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.


**6. Extensions:** General Condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

PERMITTEE: NY City Dept of Small Business Services  
PERMIT NO.: NAN-2013-00259

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

  
\_\_\_\_\_  
(NY City Dept of Small Business Services)      3-27-17  
(DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

  
\_\_\_\_\_  
(DISTRICT ENGINEER)      25 APRIL 2017  
(DATE)

David A. Caldwell  
Colonel, U.S. Army  
Commander

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below. A copy of the permit signed by the transferee should be sent to this office.

\_\_\_\_\_  
(TRANSFEREE)      \_\_\_\_\_  
(DATE)



DEPARTMENT OF THE ARMY  
U.S. ARMY CORPS OF ENGINEERS, NEW YORK DISTRICT  
JACOB K. JAVITS FEDERAL BUILDING  
26 FEDERAL PLAZA  
NEW YORK, NEW YORK 10278-0090

CENAN-OP-R\_

**IMPORTANT**

This letter must be completed and mailed to the Regulatory Branch at the above address following completion or cancellation of work authorized under the permit.

Permittee: New York City Department of Small Business Services Permit No. NAN-2013-00259

Date Permit Issued: APR 25 2017 Expiration Date: APR 25 2022

Waterway: Saw Mill Creek, Tributary to Arthur Kill

City & State: Staten Island, New York

Check and complete applicable item(s) listed below:

- Work was completed on \_\_\_\_\_.
- Work will not be performed on the project.
- Deviation from work authorized in permit is explained below.
- Other (explain) \_\_\_\_\_

\_\_\_\_\_ For dredging projects, list the volume of material dredged, and the amount placed at each disposal location (if more than one).

\_\_\_\_\_ cubic yards placed at \_\_\_\_\_

\_\_\_\_\_ cubic yards placed at \_\_\_\_\_

\_\_\_\_\_ cubic yards placed at \_\_\_\_\_

\_\_\_\_\_  
Signature of Permittee

\_\_\_\_\_  
Date

Fold this form into thirds, with the bottom third facing outward. Tape it together and mail to the address below or FAX to (212) 264-4260.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Place Stamp  
Here

Department of the Army  
New York District Corps of Engineers  
Jacob K. Javits Federal Building  
26 Federal Plaza, Room 1937  
ATTN: CENAN-OP-R\_  
New York, New York 10278-0090



DEPARTMENT OF THE ARMY  
U.S. ARMY CORPS OF ENGINEERS, NEW YORK DISTRICT  
JACOB K. JAVITS FEDERAL BUILDING  
26 FEDERAL PLAZA  
NEW YORK, NEW YORK 10278-0090

CENAN-OP-RE

**IMPORTANT**

This letter must be completed and mailed to the Regulatory Branch at the above address prior to commencement of any work authorized under the permit.

Permittee: New York City Department of Small Business Services Permit No. NAN-2013-00259

Date Permit Issued: APR 25 2017 Expiration Date: APR 25 2022

Waterway: Saw Mill Creek, Tributary to Arthur Kill

City & State: Staten Island, New York

Work will commence on or about: \_\_\_\_\_

Name, Address & Telephone Number of Contractor:

\_\_\_\_\_  
Signature of Permittee

\_\_\_\_\_  
Date

Fold this form into thirds, with the bottom third facing outward. Tape it together and mail to the address below or FAX to (212) 264-4260.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Place Stamp  
Here

Department of the Army  
New York District Corps of Engineers  
Jacob K. Javits Federal Building  
26 Federal Plaza, Room 1937  
ATTN: CENAN-OP-R\_  
New York, New York 10278-0090

**NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND  
REQUEST FOR APPEAL**

Applicant: NYC Dept of Small Business Services		File Number: NAN-2013-00259-EHA	Date: <b>MAR 16 2017</b>
Attached is:			See Section below
x	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A	
	PROFFERED PERMIT (Standard Permit or Letter of permission)	B	
	PERMIT DENIAL	C	
	APPROVED JURISDICTIONAL DETERMINATION	D	
	PRELIMINARY JURISDICTIONAL DETERMINATION	E	

**SECTION I -** The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits/appeals.aspx> or Corps regulations at 33 CFR Part 331.

**A: INITIAL PROFFERED PERMIT:** You may accept or object to the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

**B: PROFFERED PERMIT:** You may accept or appeal the permit

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

**C: PERMIT DENIAL:** You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

**D: APPROVED JURISDICTIONAL DETERMINATION:** You may accept or appeal the approved JD or provide new information.

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

**E: PRELIMINARY JURISDICTIONAL DETERMINATION:** You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

**SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT**

**REASONS FOR APPEAL OR OBJECTIONS:** (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

**ADDITIONAL INFORMATION:** The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

**POINT OF CONTACT FOR QUESTIONS OR INFORMATION:**

If you have questions regarding this decision and/or the appeal process you may contact:

Mr. Stephan A. Ryba  
Chief, Regulatory Branch (CENAN-OP-R)  
NY District, U.S. Army Corps of Engineers  
26 Federal Plaza, Room 1937  
New York, NY 10278-0090  
Telephone number: 917-790-8512

If you only have questions regarding the appeal process you may also contact:

Mr. James W. Haggerty  
Regulatory Program Manager (CENAD-PD-OR)  
U.S. Army Corps of Engineers  
Fort Hamilton Military Community  
General Lee Avenue, Building 301  
Brooklyn, New York 11252-6700  
Telephone number: 347-370-4650

**RIGHT OF ENTRY:** Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

\_\_\_\_\_  
Signature of appellant or agent.

Date:

Telephone number:



## PERMIT

### Under the Environmental Conservation Law (ECL)

#### Permittee and Facility Information

**Permit Issued To:**  
NYC ECONOMIC DEVELOPMENT CORP  
  
110 WILLIAM ST  
NEW YORK, NY 10038-3901  
(212) 619-5000

**Facility:**  
NYC EDC - SAW MILL CREEK PILOT  
WETLAND MITIGATION BANK  
425 CHELSEA RD AND SAW MILL CREEK  
STATEN ISLAND, NY 10314

**Facility Location:** in RICHMOND COUNTY **Village:** Staten Island  
**Facility Principal Reference Point:** NYTM-E: 568.634 NYTM-N: 4495.504  
Latitude: 40°36'27.0" Longitude: 74°11'19.4"

**Project Location:** Sawmill Creek

**Authorized Activity:** Create a pilot wetland mitigation bank within Sawmill Creek. Reestablish 7.04 acres of tidal wetland habitat, rehabilitate 16.72 acres of tidal wetland habitat, enhance 1.52 acres of tidal wetland adjacent area and 33.72 acres of tidal wetlands, rehabilitate 9.94 acres of forest buffers by removing urban fill, improving hydrology exchange, reestablishing native plant species, and controlling invasive species.

#### Permit Authorizations

##### Tidal Wetlands - Under Article 25

Permit ID 2-6403-00279/00001

New Permit Effective Date: 9/10/2015 Expiration Date: 9/9/2025

##### Excavation & Fill in Navigable Waters - Under Article 15, Title 5

Permit ID 2-6403-00279/00002

New Permit Effective Date: 9/10/2015 Expiration Date: 9/9/2025

##### Water Quality Certification - Under Section 401 - Clean Water Act

Permit ID 2-6403-00279/00003

New Permit Effective Date: 9/10/2015 Expiration Date: 9/9/2025

##### Freshwater Wetlands - Under Article 24

Permit ID 2-6403-00279/00004

New Permit Effective Date: 9/10/2015 Expiration Date: 9/9/2025

#### NYSDEC Approval

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.

Permit Administrator: STEPHEN A WATTS, Regional Permit Administrator



Address: NYSDEC Region 2 Headquarters  
47-40 21st St  
Long Island City, NY 11101 -5401

Authorized Signature: \_\_\_\_\_

Date 09/10/2015

**Permit Components**

NATURAL RESOURCE PERMIT CONDITIONS

WATER QUALITY CERTIFICATION SPECIFIC CONDITION

GENERAL CONDITIONS, APPLY TO ALL AUTHORIZED PERMITS

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

**NATURAL RESOURCE PERMIT CONDITIONS - Apply to the Following Permits: TIDAL WETLANDS; EXCAVATION & FILL IN NAVIGABLE WATERS; WATER QUALITY CERTIFICATION; FRESHWATER WETLANDS**

**1. Conformance With Plans** All activities authorized by this permit must be in strict conformance with the approved plans submitted by the applicant or applicant's agent as part of the permit application. Such approved plans were prepared by see Natural Resource Condition 2.

**2. Conformance with Plans - Addenda** In addition to plans referenced in the Condition titled "Conformance with Plans," the activities authorized by this permit must be in strict conformance with the following approved plans and/or submissions as follows:

1) Drawings prepared by NYCEDC, titled "Saw Mill Creek Pilot Wetland Mitigation Bank", Drawing numbers 1 and 3, prepared November, 2013, revised 5/14/14 and 3/20/15; Drawing numbers 2, 14-15, and 17-21, prepared November, 2013, revised 3/20/15; Drawing numbers 4-13, prepared November, 2013, revised 5/16/14 and 3/20/15; and Drawing Number 16, prepared November, 2013, revised 10/1/14 and 3/20/15.

2) Terms and conditions of SPDES General Permit for Storm Water Discharges from Construction Activity Permit No. GP-0-10-001, as well as with the "Stormwater Pollution Prevention Plan for Compliance with the NYSDEC General Permit GP-0-10-001 for Compliance with the NYSDEC General Permit GP-0-10-001 for Stormwater Discharges from Construction Activities," prepared by Prepared by Louis Berger & Associates, P.C., dated April 2014.

3) Saw Mill Creek Pilot Wetland Mitigation Bank Staten Island, New York Mitigation Banking Instrument, dated June 2015, prepared by NYC Small Business Services and NYCEDC.

**3. Notice of Commencement and Completion of Work** At least five (5) days prior to the start of work. Permittee must complete and submit the attached Notice of Intent to Commence Work form to the





NYSDEC Bureau of Fish and Wildlife, 47-40 21<sup>st</sup> Street, Long Island City, New York 11101. Permittee must also provide notification in writing promptly upon completion of work and upon any resumption of work after more than six months of inactivity.

- 4. Permit Sign Posting** A NYSDEC permit sign shall be posted, protected from the weather, in a conspicuous outdoor location at the project site. This sign is to be posted for the duration of work authorized by this permit.
- 5. On Site Availability of Permit** A copy of this permit, including all maps and drawings mentioned in the special conditions, is to be available on the project site at all times. Failure to produce a copy of the permit upon request by a NYSDEC representative is a violation of this permit and is sufficient grounds for an order to immediately cease all work.
- 6. Proper Removal and Disposal of Debris** All excavated nonindigenous fill material, as well as all discarded and dumped items and general project area-wide debris encountered during construction activities, shall be removed from the general project area and properly disposed of at an off-site location in accordance with all applicable laws and regulations.
- 7. Monitoring and Maintenance** Monitoring and maintenance of the restored areas shall be conducted as per Exhibit G of the Mitigation Banking Instrument cited in Natural Resources Special Condition 2.
- 8. Construction Area Limits** All construction activity, including operation of machinery, excavation, filling, grading, clearing of vegetation, disposal of waste, street paving, and stockpiling of material, is to take place within the project site as depicted on drawings referenced by this permit. No construction activity is to take place within areas to be left in a natural condition or areas not designated by the subject permit. The permittee shall designate all storage and staging areas, for DEC approval, prior to establishing these areas.
- 9. Clean Fill Only** Fill material shall consist only of clean inorganic sand, gravel, stone, or soil. No other materials are to be used unless specifically allowed by this permit.
- 10. Minimize Adverse Impact** All work is to be accomplished so as to minimize adverse impacts to wetlands, wildlife, water quality, and natural resources.
- 11. Prior Approval of Changes** If the Permittee desires to make any changes in construction techniques, species to be planted, the site plan, any mitigation plan, scheduling or staging of construction, or any other aspect of this project, the Permittee shall submit a written request to the Regional Permit Administrator to make such proposed changes and shall not make such changes unless authorized in writing by the Department.
- 12. Failure to Meet Permit Conditions** Failure of the permittee to meet all the conditions of this permit is a violation of this permit and grounds for an order to immediately cease the permitted activity at the project site.
- 13. No Interference With Navigation** There shall be no unreasonable interference with navigation by the work herein authorized.
- 14. State May Order Removal or Alteration of Work** If future operations by the State of New York require an alteration in the position of the structure or work herein authorized, or if, in the opinion of the



Department of Environmental Conservation it shall cause unreasonable obstruction to the free navigation of said waters or flood flows or endanger the health, safety or welfare of the people of the State, or cause loss or destruction of the natural resources of the State, the owner may be ordered by the Department to remove or alter the structural work, obstructions, or hazards caused thereby without expense to the State, and if, upon the expiration or revocation of this permit, the structure, fill, excavation, or other modification of the watercourse hereby authorized shall not be completed, the owners, shall, without expense to the State, and to such extent and in such time and manner as the Department of Environmental Conservation may require, remove all or any portion of the uncompleted structure or fill and restore to its former condition the navigable and flood capacity of the watercourse. No claim shall be made against the State of New York on account of any such removal or alteration.

**15. State May Require Site Restoration** If upon the expiration or revocation of this permit, the project hereby authorized has not been completed, the applicant shall, without expense to the State, and to such extent and in such time and manner as the Department of Environmental Conservation may lawfully require, remove all or any portion of the uncompleted structure or fill and restore the site to its former condition. No claim shall be made against the State of New York on account of any such removal or alteration.

**16. Precautions Against Contamination of Waters** All necessary precautions shall be taken to preclude contamination of any wetland or waterway by suspended solids, sediments, fuels, solvents, lubricants, epoxy coatings, paints, concrete, leachate or any other environmentally deleterious materials associated with the project.

**17. State Not Liable for Damage** The State of New York shall in no case be liable for any damage or injury to the structure or work herein authorized which may be caused by or result from future operations undertaken by the State for the conservation or improvement of navigation, or for other purposes, and no claim or right to compensation shall accrue from any such damage.

### WATER QUALITY CERTIFICATION SPECIFIC CONDITIONS

**1. Water Quality Certification** The NYS Department of Environmental Conservation hereby certifies that the subject project will not contravene effluent limitations or other limitations or standards under Sections 301, 302, 303, 306 and 307 of the Clean Water Act of 1977 (PL 95-217) provided that all of the conditions listed herein are met.

### GENERAL CONDITIONS - Apply to ALL Authorized Permits:

**1. Facility Inspection by The Department** The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71- 0301 and SAPA 401(3).

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.



A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

**2. Relationship of this Permit to Other Department Orders and Determinations** Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

**3. Applications For Permit Renewals, Modifications or Transfers** The permittee must submit a separate written application to the Department for permit renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing. Submission of applications for permit renewal, modification or transfer are to be submitted to:

Regional Permit Administrator  
NYSDEC Region 2 Headquarters  
47-40 21st St  
Long Island City, NY11101 -5401

**4. Submission of Renewal Application** The permittee must submit a renewal application at least 30 days before permit expiration for the following permit authorizations: Excavation & Fill in Navigable Waters, Freshwater Wetlands, Tidal Wetlands, Water Quality Certification.

**5. Permit Modifications, Suspensions and Revocations by the Department** The Department reserves the right to exercise all available authority to modify, suspend or revoke this permit. The grounds for modification, suspension or revocation include:

- a. materially false or inaccurate statements in the permit application or supporting papers;
- b. failure by the permittee to comply with any terms or conditions of the permit;
- c. exceeding the scope of the project as described in the permit application;
- d. newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e. noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

**6. Permit Transfer** Permits are transferrable unless specifically prohibited by statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

<b>NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS</b>
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**Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification**

The permittee, excepting state or federal agencies, expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees, and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under Article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

**Item B: Permittee's Contractors to Comply with Permit**

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

**Item C: Permittee Responsible for Obtaining Other Required Permits**

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

**Item D: No Right to Trespass or Interfere with Riparian Rights**

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

**NOTICE OF INTENT TO COMMENCE WORK**

Date: \_\_\_\_\_

**NYSDEC Fish and Wildlife  
Attn. Habitat Supervisor  
N.Y.S.D.E.C Region 2 Office  
47-40 21st Street  
Long Island City, N.Y. 11101**

**Re: NYSDEC Permit No. 2-6403-00279/00001  
NYCEDC Saw Mill Creek  
Mitigation Bank Pilot Project  
Staten Island, New York**

**Dear NYSDEC Habitat Supervisor:**

**In accordance with Natural Resource Condition 3 of the referenced permit, I hereby serve notice to commence work on \_\_\_\_\_, 20\_\_\_\_.**

**This is also to certify that, having read this entire permit, I am fully aware of and understand the general and natural resource conditions therein, and agree to comply with all such conditions further understand that prior to undertaking any modification to the subject work, I must seek and receive written approval of the NYSDEC Regional Permit Administrator.**

\_\_\_\_\_  
Signature of Permittee

\_\_\_\_\_  
Signature of Contractor

\_\_\_\_\_  
Name of Permittee (please print)

\_\_\_\_\_  
Name of Contractor (please print)

\_\_\_\_\_  
Street Address of Contractor

\_\_\_\_\_  
City, State, & Zip Code of Contractor

\_\_\_\_\_  
Telephone Number of Contractor

**WARNING**

**The permittee and his contractor (if any) are required to follow all permit conditions. Violations of the permit may lead to legal action, including the imposition of substantial monetary fines and corrective work.**

**cc: Environmental Permits**

# SAW MILL CREEK PILOT WETLAND MITIGATION BANK STATEN ISLAND, NEW YORK

NEW YORK CITY ECONOMIC DEVELOPMENT CORPORATION



USGS District of New York, NY

SITE LOCATION MAP



INDEX OF DRAWINGS	
SHEET NUMBER	SHEET DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES AND LEGEND
3	KEY PLAN
4	EXISTING CONDITIONS -WEST-
5	EXISTING CONDITIONS -EAST-
6	EXISTING CHANNEL SECTIONS -1-
7	EXISTING CHANNEL SECTIONS -2-
8	EXISTING CHANNEL SECTIONS -3-
9	PROPOSED DRAINING -WEST-
10	PROPOSED DRAINING -EAST-
11	PROJECT AREAS OF INTEREST
12	SURFACE PROFILES
13	PROPOSED TYPICAL SECTIONS
14	PLANTING PLAN -WEST-
15	PLANTING PLAN -EAST-
16	PLANTING -NOTES & DETAILS-
17	SOIL EROSION AND SEDIMENT CONTROL -WEST-
18	SOIL EROSION AND SEDIMENT CONTROL -EAST-
19	SOIL EROSION AND SEDIMENT CONTROL -NOTES AND DETAILS-
20	SOIL EROSION AND SEDIMENT CONTROL -NOTES AND DETAILS-
21	SOIL EROSION AND SEDIMENT CONTROL -NOTES AND DETAILS-
22	SOIL EROSION AND SEDIMENT CONTROL -NOTES AND DETAILS-

APPENDIX DRAWINGS	
SHEET NUMBER	SHEET DESCRIPTION
1	BOUNDARY SURVEY OF SAW MILL CREEK PARK
2	BOUNDARY SURVEY OF SAW MILL CREEK PARK
3	BOUNDARY SURVEY OF SAW MILL CREEK PARK
4	BOUNDARY SURVEY OF SAW MILL CREEK PARK

**NYCED** NEW YORK CITY ECONOMIC DEVELOPMENT CORP.

SAW MILL CREEK PILOT WETLAND MITIGATION BANK  
STATEN ISLAND, NEW YORK

TITLE SHEET

DESIGNED BY: SA	APPROVED BY:	TITLE:	DATE:	PROJECT NO.:
SCALE:	DATE: DECEMBER 2015			2001984
NO.:	REVISION:			SHEET 1 OF 22
				DWG. NO.:

FILE NAME: I\_TITLE\_LEGEND.dwg



LOUIS BERKELEY ASSOCIATES, P.C.  
REGISTERED PROFESSIONAL ENGINEER  
NEW YORK STATE

3/20/15	PREPARATION FOR CONSTRUCTION BID
5/14/14	EXPANDED MAP SIZE
NO.	REVISION

**GENERAL NOTES**

1. THE HORIZONTAL COORDINATE SYSTEM IS THE NEW YORK STATE PLANE, NORTH AMERICAN DATUM OF 1983, U.S SURVEY FEET (NA83, FT).
2. ALL ELEVATIONS SHOWN ARE IN NORTH AMERICAN VERTICAL DATUM OF 1988, FEET (NA88, FT).
3. THE TOPOGRAPHIC BASE SURVEY (SHORELINE AND UPLAND AREAS SURROUNDING SAW MILL CREEK) WAS CONDUCTED BY GAYRON DE BRIJAN LAND SURVEYING AND ENGINEERING, P.C. IN JUNE 2013.
4. THE INFORMATION SHOWN ON THESE PLANS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THEREBY. ANY DAMAGE TO UTILITIES WILL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
5. SOIL CLASSIFICATION AND BORING LOG DATA PERFORMED BY LOUIS BERGER GROUP & ASSOC., P.C IS AVAILABLE IN APPENDIX A OF THE PROJECT SPECIFICATIONS.
6. THE CONTRACTOR SHALL, DURING CONTRACT OPERATIONS, ADHERE TO ALL CONDITIONS SET FORTH IN THE PERMITS.
7. CONSTRUCTION VEHICLES AND STOCKPILE/STORAGE AREAS ARE NOT PERMITTED BEYOND THE LIMITS OF PROPOSED WORK.
8. ANY AREAS DISTURBED OUTSIDE THE DESIGNATED LIMITS OF DISTURBANCE SHALL BE RESTORED TO EXISTING CONDITIONS AT THE CONTRACTOR'S EXPENSE.
9. UNLESS OTHERWISE SPECIFIED IN THIS DOCUMENT, OR BY THE DESIGN ENGINEER, ALL EXCAVATED SOILS MUST BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH PROJECT SPECIFICATION ITEM 24 AND 25.
10. THE CONTRACTOR SHALL REMOVE ALL DEBRIS IN ACCORDANCE WITH PROJECT SPECIFICATION ITEM 15.
11. HEAVY EQUIPMENT USED IN GRADING OPERATIONS IN WETLANDS MUST OPERATE ON TRAMPER WASH MATS OR EQUIVALENT. NO CONSTRUCTION EQUIPMENT (INCLUDING EXCAVATORS, MARSHMASTERS, ROLLIGONS, MARSH BULLDOZERS, ARGOS, OR SIMILAR EQUIPMENT) SHALL BE ALLOWED TO TRAVEL ON THE GRASSY MARSH AND ANY AREA TO BE PLANTED UNDER THIS PROJECT.
12. EXISTING TREES WITHIN THE LIMITS OF DISTURBANCE WHICH MIGHT BE DAMAGED DURING CONSTRUCTION SHALL BE PROTECTED BY A 6 FOOT HIGH FENCE. CONSTRUCTION FENCES SHALL BE CONSECUTIVELY ERECTED A MINIMUM OF 5 FEET FROM THE TRUNK OF THE INDIVIDUAL TREE OR FOLLOW THE OUTER PERIMETER OF THE DISTURBANCE. ANY TREE THAT IS DAMAGED DURING THE WORK UNDER THIS CONTRACT SHALL BE REPLACED IN KIND OR AS APPROVED BY THE DESIGN ENGINEER.
13. THE PROJECT SITE IS SUBJECT TO TIDE FLUX. THE CONTRACTOR MUST TAKE THIS INTO CONSIDERATION WHEN PLANNING CONSTRUCTION ACTIVITIES TO ACCOUNT FOR THE VARIATION IN TIDE CYCLES ON A DAILY AND MONTHLY BASIS.
14. THE CONTRACTOR SHALL PREPARE A TYPICAL ENVELOPE PLAN FOR APPROVAL, ADHERING TO ALL Dewatering MEASURES SET BY THESE PLANS AND BY NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE DESIGN ENGINEER THE TEMPORARY PLACEMENT AND STORAGE OF STOCKPILES OF SOILS AND MATERIALS WITHIN THE CONSTRUCTION AREA. THE STAGING AREA SHALL NOT EXCEED THE LIMITS SHOWN WITHIN THESE PLANS, UNLESS APPROVED BY THE DESIGN ENGINEER.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE DESIGN ENGINEER, PROVIDING ADEQUATE CONTROLS FOR SITE SAFETY, AND MINIMIZING IMPACTS TO ADJACENT PROPERTY OWNERS. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR INTRUDE ACTIVITIES THAT WILL RESTRICT ACCESS OF EMERGENCY VEHICLES.
17. ALL PHASING AND SEQUENCING SHALL BE COORDINATED WITH THE DESIGN ENGINEER AND NYCECD.
18. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS RELATED TO THIS PROJECT PRIOR TO SHOP DRAWING PRODUCTION.
19. CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS FOR ALL PARTS OF THE WORK. CONSTRUCTION METHODS AND SEQUENCING WHERE APPLICABLE, NO PERFORMANCE OF THE WORK SHALL COMMENCE WITHOUT PRIOR REVIEW AND APPROVAL OF THE SHOP DRAWINGS BY THE DESIGN ENGINEER.

**NOTES**

NORMAL TIDE ELEVATIONS CAN BE AS HIGH AS 5 FT (NAVD88).

**LEGEND**

- |  |  |  |   |
|--|--|--|---|
|  | BANK BOUNDARY                                  |  | PROPERTY EASEMENTS  |
|  | DRAINAGE EASEMENTS                             |  | MAJOR CONTOURS  |
|  | MINOR CONTOURS                                 |  | ROAD RIGHT OF WAY   |
|  | SURFACE WATER                                  |  | UNDERGROUND WATER LINE  |
|  | UNDERGROUND GAS LINE                           |  | EDGE OF WETLANDS  |
|  | EXISTING CROSS-SECTIONS                        |  | MEAN HIGH WATER   |
|  | MEAN LOW WATER                                 |  | SPRING HIGH WATER   |
|  | SEA LEVEL RISE                                 |  | SPOT ELEVATIONS   |
|  | BENCHMARKS                                     |  | WETLAND FLAGS   |
|  | SOIL POINTS                                    |  | SURVEY BENCHMARKS   |
|  | 2013 GROUND WATER SAMPLING POINTS              |  | 2013 SOIL BORING POINTS                                       |
|  | 2013 SEDIMENT SAMPLING POINTS                  |  | 2014 SOIL BORING LOCATION                                     |
|  | 2014 SOIL SAMPLE LOCATION                      |  | 2014 SEDIMENT SAMPLE LOCATION                                 |
|  | VEGETATION TREE LINE                           |  | VEGETATION BUSH   |
|  | VEGETATION TREE                                |  | DEBRIS TO BE REMOVED  |
|  | PHOTO LOCATIONS                                |  | LIMIT OF DISTURBANCE  |
|  | PLANTING LIMIT AREA-NO HEAVY EQUIPMENT ALLOWED |  | CONSTRUCTION VEHICLE ACCESS TO BE APPROVED BY DESIGN ENGINEER |
|  | INVASIVE PLANT TREATMENT AREA                  |  | FLOATING TURBIDITY BARRIER                                    |
|  | PERMANENT CHAIN-LINK FENCE AND GATES           |  | SILT FENCE  |
|  | HAY BALE                                       |  | CONSTRUCTION FENCE  |
|  | HABITAT - LOW MARSH                            |  | HABITAT - HIGH MARSH  |
|  | HABITAT - SCRUB SHRUB                          |  | HABITAT - UPLAND SLOPE  |
|  | AREA OF OVER EXCAVATION                        |  |   |

MEAN LOWER LOW WATER	-3.05 FT
MEAN LOW WATER	-2.02 FT
MEAN TIDE LEVEL	-0.21 FT
MEAN HIGH WATER	2.39 FT
MEAN HIGHER HIGH WATER	2.62 FT
MEAN HIGHER HIGH WATER SPRING	2.91 FT
FEWA 100 YEAR FLOOD ELEVATION	9.00 FT

**NYCECD ECONOMIC DEVELOPMENT CORP.**

SAW MILL CREEK PLOT WETLAND MITIGATION BANK  
STATEN ISLAND, NEW YORK

**GENERAL NOTES AND LEGEND**

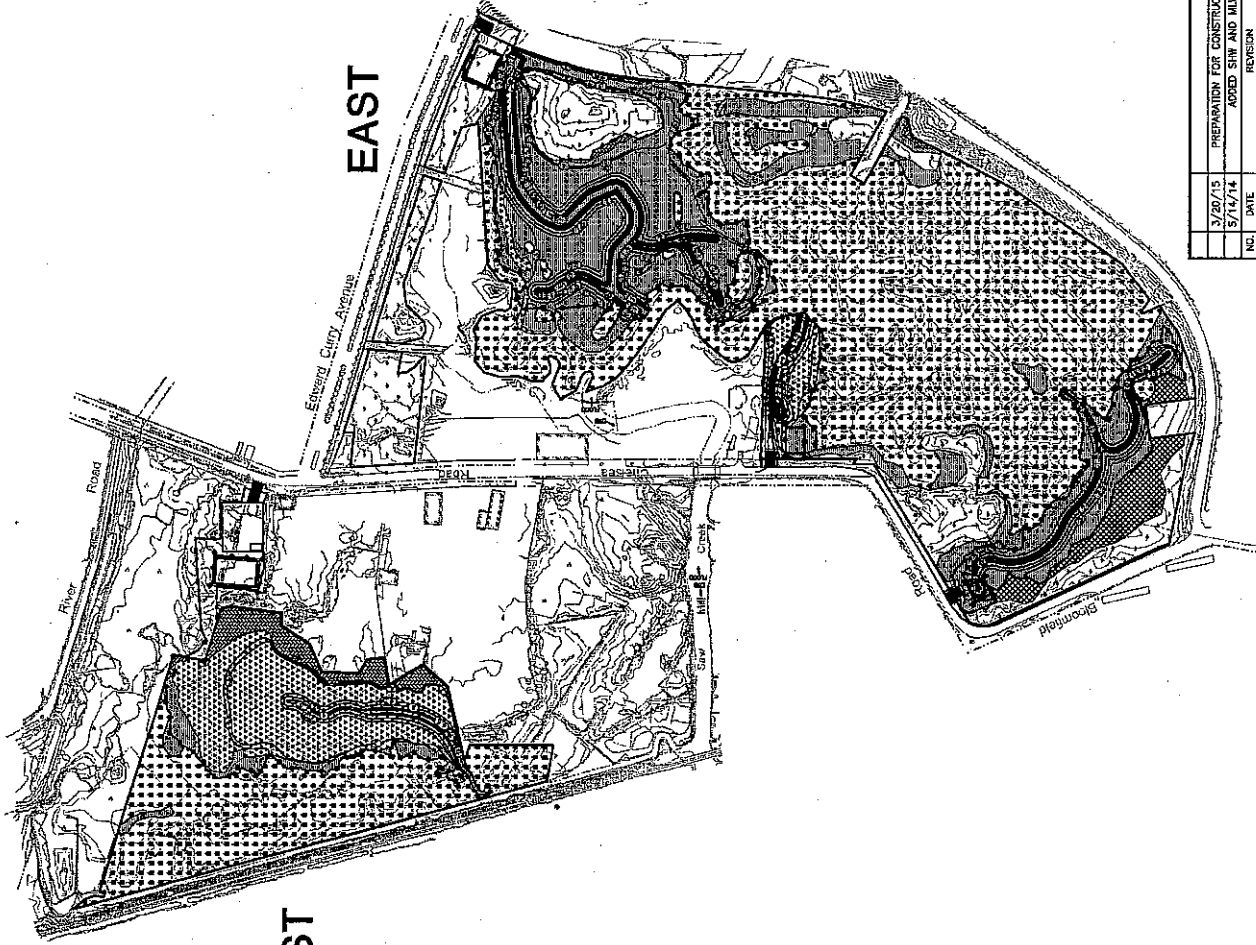
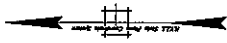
DRAWN BY: BH	APPROVED BY:	PROJECT NO.: 2001384
CHECKED BY: SA	DATE:	SHEET 2 OF 22
SCALE:	DATE: 02/24/15	DWG. NO.
DATE: 02/24/15		

LOUIS BERGER GROUP, P.C.  
14 WALL STREET, 10TH FLOOR, NEW YORK, NY 10038

SEAL OF THE STATE OF NEW YORK  
REG. NO. 12244/S  
BETHANY A. BERKOWITZ  
REGISTERED PROFESSIONAL ENGINEER  
NO. 12244/S

FILE NAME: 1\_TITLE\_LEGEND.dwg

NO.	DATE	PREPARATION FOR CONSTRUCTION BID	REVISION
1	3/29/15	PREPARATION FOR CONSTRUCTION BID	



HABITAT AREAS	SYMBOLS	WEST	EAST	TOTAL
WETLAND RESTORATION (REHABILITATION)	[Pattern]	1.02 ACRES	15.70 ACRES	16.72 ACRES
WETLAND RESTORATION (RE-ESTABLISHMENT)	[Pattern]	5.17 ACRES	1.87 ACRES	7.04 ACRES
TIDAL WETLAND ENHANCEMENT	[Pattern]	7.89 ACRES	26.03 ACRES	33.92 ACRES
FORESTED WETLAND ENHANCEMENT	[Pattern]	0.00 ACRES	1.52 ACRES	1.52 ACRES
UPLAND SLOPE	[Pattern]	1.12 ACRES	0.33 ACRES	1.45 ACRES
BUFFER REHABILITATION	[Pattern]	0.00 ACRES	8.49 ACRES	8.49 ACRES
TOTAL		15.00 ACRES	53.94 ACRES	68.94 ACRES

**LEGEND**

SHW ——— SPRING HIGH WATER 2.02'

MSW ——— MEAN HIGH WATER 2.35'

MLW ——— MEAN LOW WATER 2.02'



**NEW YORK CITY ECONOMIC DEVELOPMENT CORP.**

SAW MILL CREEK PILOT WETLAND MITIGATION BANK  
STATEN ISLAND, NEW YORK

**KEY PLAN**

APPROVED BY:	DATE:	PROJECT:	2001954
CHECKED BY: SA	DATE:	SHEET:	3 OF 22
DATE: DECEMBER 2015	SCALE:	DATE:	DECEMBER 2015
FILE NAME: J:\KEY PLAN.dwg			



3/29/15	PREPARATION FOR CONSTRUCTION BID	
5/14/14	ADDED SHW AND MLW	
INC.	REVISION	



CONTROL POINT		
X	Y	Z (NAVD83)
930509.35	154453.63	2.8 FT



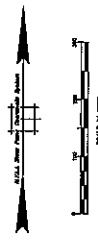
**NOTES:**

1. VERTICAL DATUM IN NUMBERS.
2. HORIZONTAL DATUM IN NUMBERS.
3. SEE APPENDIX DRAWINGS: BOUNDARY SURVEY OF SAW MILL CREEK PARK SHEET 1 OF 2 FOR BOUNDARY SURVEY INFORMATION.

**LEGEND:**

- SWM
- MEAN HIGH WATER 2.82'
- MEAN HIGH WATER 2.39'
- MEAN LOW WATER -2.82'

SECTION	START SECTION		END SECTION	
	NORTHING	EASTING	NORTHING	EASTING
1W	152946.10	830948.25	152946.07	830948.28
2W	152946.08	830958.75	152946.05	830958.80
3W	152946.05	830969.25	152946.02	830969.30
4W	152946.02	830979.75	152945.99	830979.80
5W	152945.99	830990.25	152945.96	830990.30
6W	152945.96	830990.75	152945.93	830990.80
7W	152945.93	830991.25	152945.90	830991.30
8W	152945.90	830991.75	152945.87	830991.80
9W	152945.87	830992.25	152945.84	830992.30
10W	152945.84	830992.75	152945.81	830992.80
11W	152945.81	830993.25	152945.78	830993.30
12W	152945.78	830993.75	152945.75	830993.80



**NYCED** NEW YORK CITY  
**ECONOMIC DEVELOPMENT CORP.**

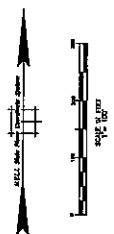
SAW MILL CREEK PILOT WETLAND MITIGATION BANK  
 STATEN ISLAND, NEW YORK

**EXISTING CONDITIONS - WEST-**

DRAWN BY: SA	APPROVALS:	PROJECT: 2001984
CHECKED BY: SA	TITLE:	DATE: 12/24/15
SCALE AS SHOWN	DATE: DECEMBER 2015	SHEET: 4 OF 22
DATE: DECEMBER 2015	FILE NAME: 3_EXISTING CONDITIONS.dwg	DWG. NO.:



NO.	DATE	REVISION
1	3/20/15	PREPARATION FOR CONSTRUCTION BID
2	5/16/14	ADDED SW AND M.W



**NYCED ECONOMIC DEVELOPMENT CORP.**  
**SAW MILL CREEK PILOT WETLAND MITIGATION BANK**  
**STATEN ISLAND, NEW YORK**

**EXISTING CONDITIONS - EAST-**

DRAWN BY: MH	APPROVALS:	PROJECT NO.: 2001984
CHECKED BY: SA	DATE:	SHEET 5 OF 22
SCALE AS SHOWN	TITLE:	
DATE: DECEMBER 2015		

FILE NAME: 3\_EXISTING CONDITIONS.AWG

LOUIS ROSSER ASSOCIATES, PC  
 140 WALL STREET  
 10038 NEW YORK, NY



3/25/15	PREPARATION FOR CONSTRUCTION BID	NO.	DATE
5/19/14	ADDED SHW AND MLW	REVISION	DATE

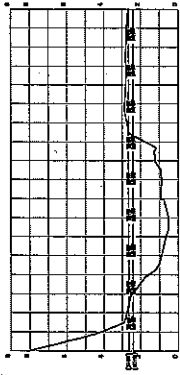
**NOTES**

- VERTICAL DATUM IN WADSWORTH.
- HORIZONTAL DATUM IN MGS83.
- SEE APPENDIX DRAWINGS: BOUNDARY SURVEY OF SAW MILL CREEK PARK SHEET 1 OF 2 FOR BOUNDARY SURVEY INFORMATION.

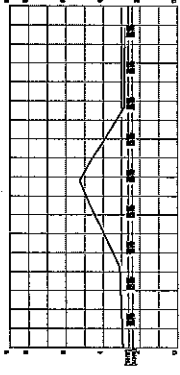
**LEGEND**

- SHW --- 2.62'
- MLW --- 2.39'
- MEAN LOW WATER --- -2.02'

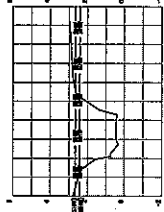
SECTION	START SECTION		END SECTION	
	NORTHING	EASTING	NORTHING	EASTING
1E	181533.71	832728.86	181941.04	832702.89
2E	181433.04	832432.80	181594.21	832488.67
3E	181484.87	832125.81	181483.03	832255.01
4E	181519.29	832290.32	181506.13	834124.89
5E	181789.79	832127.81	181284.38	832093.32
6E	180781.83	831843.88	180854.42	831864.80
7E	180625.85	832087.71	180620.30	832234.88
8E	180659.82	832053.12	180783.77	832467.31
9E	180580.37	832701.88	180680.88	832851.04
10E	180517.81	832554.17	180410.58	832137.33
11E	180271.45	832705.49	180387.14	832643.02
12E	180386.38	832853.27	180373.37	832982.03
13E	180259.43	832581.26	180284.01	832728.79
14E	180161.13	831816.89	180839.74	831788.76
15E	180806.68	832039.83	180858.85	832035.78
16E	180894.82	832085.80	180846.84	832442.38
17E	180079.90	832057.80	180981.83	832430.04
18E	180728.82	832145.88	180812.18	832280.04



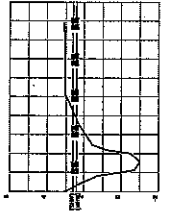
Section 1W



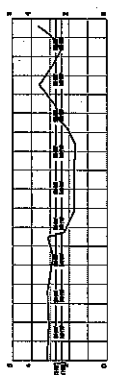
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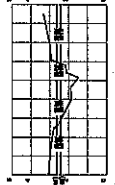
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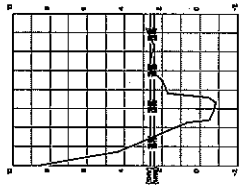
Section 4W



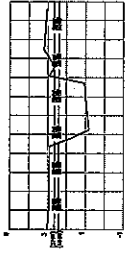
Section 5W



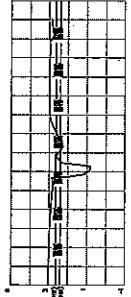
Section 6W



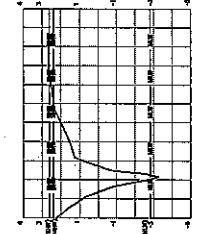
Section 7W



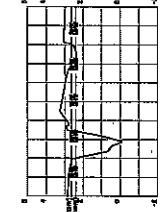
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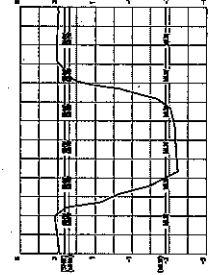
Section 9W



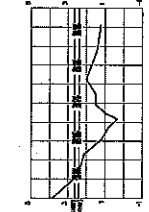
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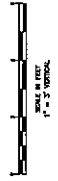
Section 11W



Section 12W



Section 1E



NOTE  
1. VERTICAL ORIGIN IN NAVD83.

LEGEND:  
— SHW  
— MHW  
— MLW

2.02' (SHW)  
2.35' (MHW)  
-2.62' (MLW)

3/25/15	PREPARATION FOR CONSTRUCTION BID
5/16/14	ADDED SHW, MHW AND MLW
	REVISION
NO.	DATE

LOUIS BERBER & ASSOCIATES, P.C.  
40 WALL STREET  
NEW YORK, NY 10005  
Tel: 212.693.1000  
Fax: 212.693.1001



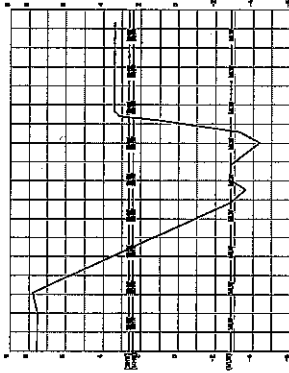
DATE: 12/14/15  
APPROVED BY: DEB  
SCALE AS SHOWN  
DATE: DECEMBER 2015  
DWG. NO. 2001984-1

**NYCED** ECONOMIC DEVELOPMENT CORP.  
SAW MILL CREEK PILOT WETLAND MITIGATION BANK  
STATEN ISLAND, NEW YORK

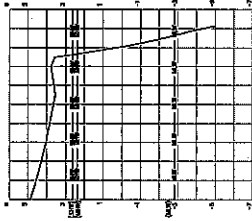
EXISTING CHANNEL SECTIONS - 1-

DRWN BY: JH	APPROVALS:	PROJECT NO.:	2001984
CHECKED BY: SA	APPROVED BY:	DATE:	12/14/15
		SHEET:	6 OF 22
		DATE:	DECEMBER 2015
		DWG. NO.:	2001984-1

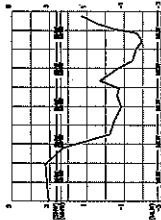
FILE NAME: 4\_EXISTING CHANNEL CROSS-SECTIONS.dwg



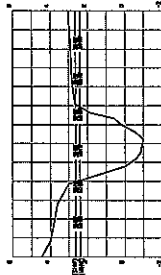
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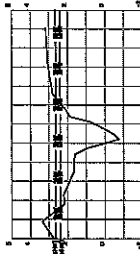
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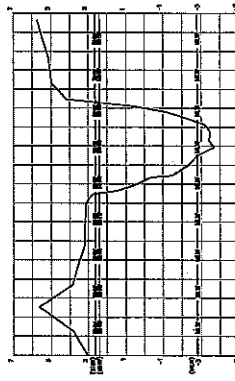
Section 4E



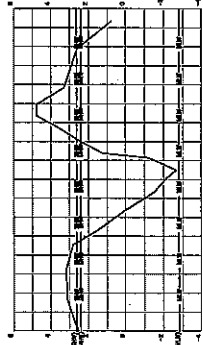
Section 3E



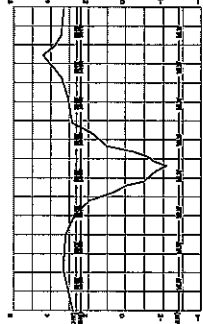
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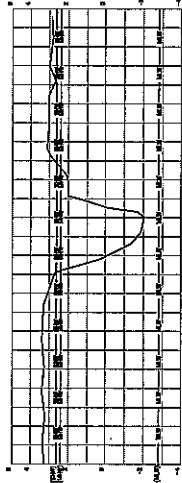
Section 7E



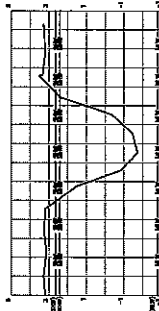
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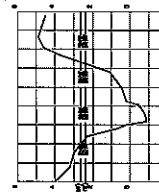
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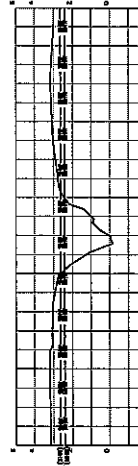
Section 10E



Section 13E



Section 12E



Section 11E

NOTE  
1. VERTICAL DATUM IN NAVD83.

LEGEND

- SHW — SPRING HIGH WATER
- MHW — MEAN HIGH WATER
- MLLW — MEAN LOW WATER
- EBB — EBB



**NYCEDC** NEW YORK CITY ECONOMIC DEVELOPMENT CORP.

SAW MILL CREEK PILOT WETLAND MITIGATION BANK  
STATEN ISLAND, NEW YORK

EXISTING CHANNEL SECTIONS -2-

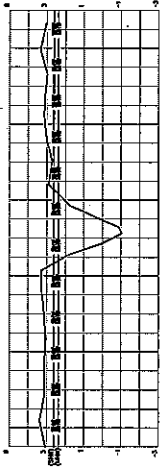
APPROVED BY:	TITLE:	PROJECT NO.:
DATE: DECEMBER 2015		2001984
		SHEET 7 OF 22
		DWG. NO.

SCALE: HORIZONTAL 1" = 200'  
VERTICAL 1" = 5'

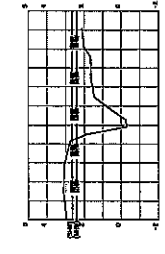


ROBERT A. SPARATORE  
No. 10002  
STATE OF NEW YORK  
Professional Engineer

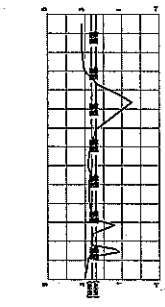
NO.	DATE	REVISION
3/26/15		PREPARATION FOR CONSTRUCTION BID
5/16/14		ADDED SHW, MHW AND MLLW



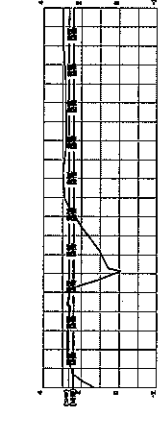
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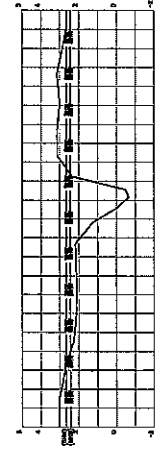
Section 15E



Section 14E



Section 18E



Section 17E

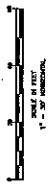
**NYCEDC** NEW YORK CITY ECONOMIC DEVELOPMENT CORP.  
 SAW MILL CREEK PILOT WETLAND MITIGATION BANK  
 STATEN ISLAND, NEW YORK

**EXISTING CHANNEL SECTIONS -3-**

DRAWN BY: MH	APPROVED BY:	TITLE:	PROJECT NO.:
CHECKED BY: SA	DATE:	DATE:	2001984
SCALE AS SHOWN	DATE: DECEMBER 2015		SHEET 8 OF 22
			DWG. NO.

FILE NAME: \_EXISTING CHANNEL CROSS SECTIONS.dwg

CONTRACT NO. 13022-PC  
 15 WALL STREET  
 10TH FLOOR  
 NEW YORK, NY 10005



NOTE  
 1. VERTICAL DATUM IN NAVD83.

LEGEND

SHW	SPRING HIGH WATER	2.62' (SHW)
MHW	MEAN HIGH WATER	2.39' (MHW)
MLW	MEAN LOW WATER	-2.02' (MLW)

3/20/15	PREPARATION FOR CONSTRUCTION BID	
5/15/14	ADDED SHW, MHW AND MLW	
NO.	DATE	REVISION

EXCAVATION BY HABITAT AREAS			
TYPE	WEST	EAST	TOTAL
WETLAND RESTORATION (REHABILITATION)	686 CY	23,395 CY	30,081 CY
WETLAND RESTORATION (RE-ESTABLISHMENT)	24,237 CY	9,805 CY	34,042 CY
UPLAND SLOPE	375 CY	149 CY	524 CY
TOTAL	25,358 CY	39,448 CY	64,807 CY



WETLAND DISTURBANCE AREA  
0.34 ACRES

NOTE:  
CONTRACTOR/SURVEYOR SHOULD  
FIELD LOCATE AND TIE INTO  
NATURAL A.S. ELEVATION

NOTES

1. VERTICAL DATUM IN NAD83.
2. HORIZONTAL DATUM IN NAD83.
3. REFER TO SOIL EROSION AND SEDIMENT CONTROL - WEST - (SHEET 17 OF 21) FOR CONSTRUCTION ACCESS ENTRANCES, STAGING AREAS, TRUCK LOCATIONS, AND ALL OTHER SOIL AND TREE PROTECTION MEASURES.

LEGEND

- SHW - SPRING HIGH WATER 2.67' (SNW)
- MHW - MEAN HIGH WATER 2.35' (MHW)
- MLW - MEAN LOW WATER -2.82' (MLW)
- WDA - WETLAND DISTURBANCE AREA



**NYCED ECONOMIC DEVELOPMENT CORP.**  
**SAW MILL CREEK PILOT WETLAND MITIGATION BANK**  
 STATEN ISLAND, NEW YORK

**PROPOSED GRADING - WEST -**

DATE: 05/14/14	APPROVED BY: [Signature]	TITLE: PROPOSED GRADING - WEST -	PROJECT NO: 2001994
DATE: 05/14/14	APPROVED BY: [Signature]	TITLE: PROPOSED GRADING - WEST -	PROJECT NO: 2001994
DATE: 05/14/14	APPROVED BY: [Signature]	TITLE: PROPOSED GRADING - WEST -	PROJECT NO: 2001994
DATE: 05/14/14	APPROVED BY: [Signature]	TITLE: PROPOSED GRADING - WEST -	PROJECT NO: 2001994



NO.	DATE	REVISION
1	3/20/15	PREPARATION FOR CONSTRUCTION BID
2	5/16/14	ADDED SHW, MHW, MLW & WETLAND DISTURBANCE AREA



**NEW YORK CITY  
ECONOMIC DEVELOPMENT CORP.**

**SAW MILL CREEK PILOT WETLAND MITIGATION BANK  
STATEN ISLAND, NEW YORK**

**PROPOSED GRADING - EAST-**

APPROVED BY:	TITLE:	PROJECT NO.:
APPROVED BY:	TITLE:	DATE:
SCALE AS SHOWN	DATE: DECEMBER 2015	SHEET 10 OF 22
DATE: DECEMBER 2015		DRG. NO.

LAKE GEORGE LABORATORY  
111 HUNTERS POINT ROAD  
LAKE GEORGE, NY 12153

3/20/15	PREPARATION FOR CONSTRUCTION BID
5/15/14	ADDED SHIM, M.W. & WETLAND DISTURBANCE AREA
	REVISION
NO.	DATE

**NOTES**

- VERTICAL DATUM IN NAVD83.
- HORIZONTAL DATUM IN NAD83.
- REFER TO SOIL EROSION AND SEDIMENT CONTROL - EAST- (SHEET 19) FOR CONSTRUCTION ACCESS ENHANCES, SLOPING AREAS, STABLE EROSION, AND ALL OTHER SOIL AND TREE PROTECTION MEASURES.
- AREAS MARKED BY CONSTRUCTION FENCE ON THIS SHEET ARE AREAS OF NO ACCESS/DISTURBING BY FOOT OR EQUIPMENT.

**LEGEND**

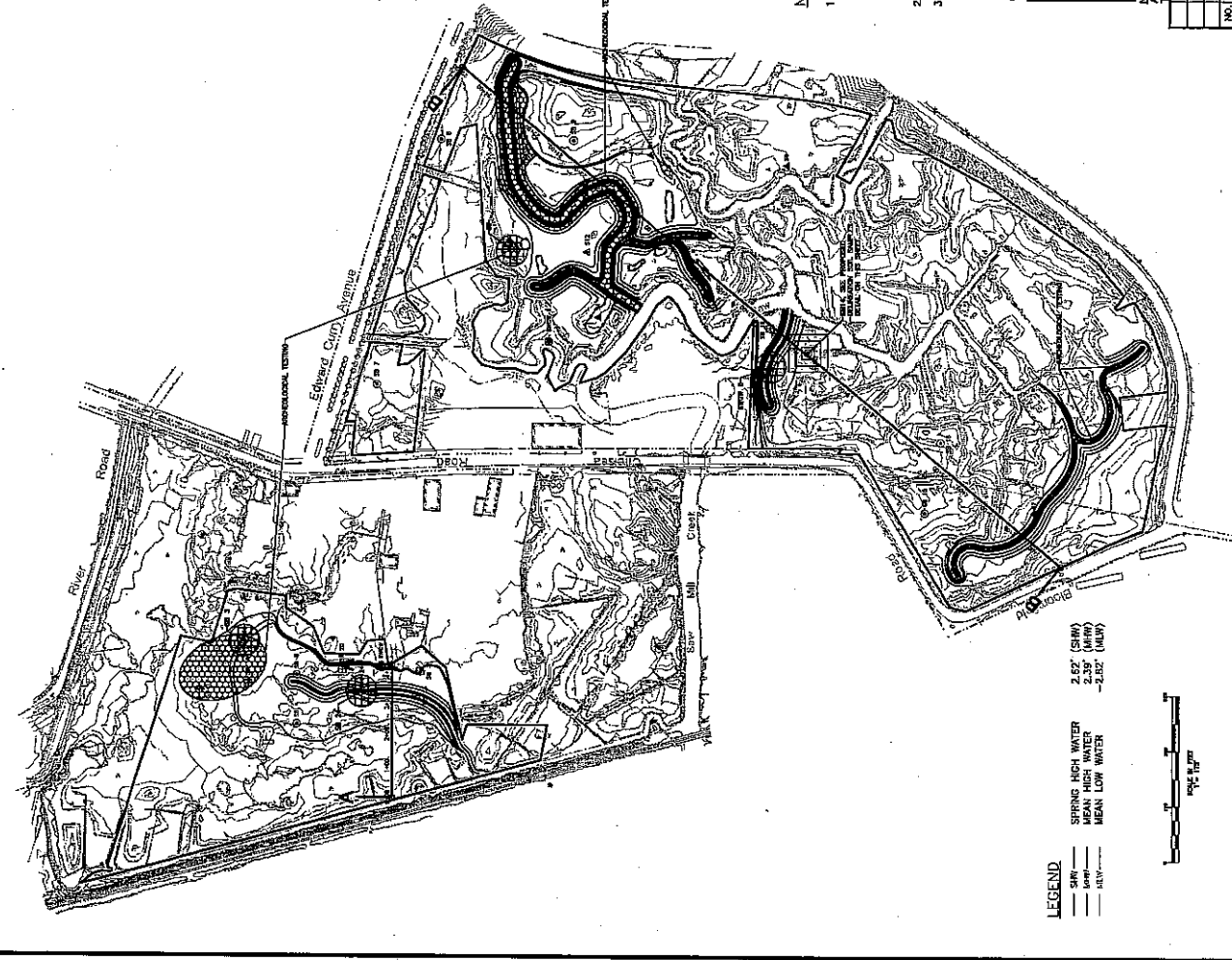
- SPRING HIGH WATER 2.61' (SW)
- SPRING MEDIUM WATER 2.07' (SW)
- MEAN HIGH WATER 1.53' (SW)
- MEAN LOW WATER -2.82' (SW)
- WETLAND DISTURBANCE AREA

**EXCAVATION BY HABITAT AREAS**

TYPE	WEST	EAST	TOTAL
WETLAND RESTORATION (REHABILITATION)	686 CY	29,395 CY	30,081 CY
WETLAND RESTORATION (RE-ESTABLISHMENT)	24,287 CY	9,905 CY	34,192 CY
UPLAND SLOPE	375 CY	149 CY	524 CY
TOTAL	29,358 CY	39,449 CY	68,807 CY

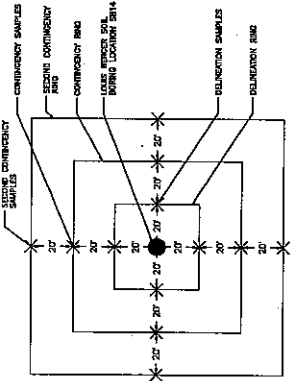
**NOTES FOR HAZARDOUS SOIL REMOVAL:**

1. DUE TO THE PRESENCE OF PCBs GREATER THAN (>) 50 PPM IN SOILS NEAR THE DISCARDED ELECTRICAL TRANSFORMER AT SB 14, REQUIREMENTS OF THE FEDERAL CLEAN AIR ACT (FCAA) ARE TRIGGERED. DISPOSAL OF SOILS WITH PCBs > 50 PPM MUST BE IN ACCORDANCE WITH APPLICABLE TSCA REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY SAMPLING TO COMPLY WITH TSCA REGULATIONS.
2. SAMPLE SB14 INDICATED A PCB CONCENTRATION OF 5,300 MG/KG. THE PROTECTION OF ECOLOGICAL RESOURCES STANDARD FOR PCBs IS LISTED AT 1.0 MG/KG.
3. ALL SAMPLES WITH THE (Y) SYMBOL WILL BE COLLECTED, EXTRACTED AND HELD FOR CONTINGENT ANALYSIS BASED ON THE PRELIMINARY RESULTS OF THE SAMPLES TO BE ANALYZED INITIALLY.
4. SAMPLES ENDING IN "1" WILL BE COLLECTED 20 FEET FROM ORIGINAL BORING LOCATION SB14 IN EACH CARDINAL DIRECTION. SAMPLES ENDING IN "2" WILL BE COLLECTED AN ADDITIONAL 20 FEET AWAY (FOR A TOTAL OF 40 FEET IN EACH DIRECTION FROM SB14); SAMPLES ENDING IN "3" WILL BE COLLECTED AN ADDITIONAL 20 FEET AWAY (FOR A TOTAL OF 60 FEET IN EACH DIRECTION FROM SB14).
5. THE N SAMPLES MAY BE COLLECTED VIA DIRECT, PUSH DRILLING METHODS PRIOR TO EXCAVATION ACTIVITIES (N-SITE) OR CONCURRENT WITH EXCAVATION ACTIVITIES. WHEREAS SOILS WOULD BE PROPERLY STABILIZED OR SHIELDED FROM FURTHER CONTAMINATION UPON COMPLETION OF THE ACCEPTABLE USE OF THE EXCAVATED SOILS CAN BE MADE. ALL OTHER SAMPLES MUST BE COLLECTED VIA HAND AUGER AS THESE SAMPLE LOCATIONS ARE IN A TIDAL MARSH.
6. ALL SAMPLES WILL BE SUBMITTED FOR ANALYSIS OF PCBs ONLY. THE PARAMETER FOR WHICH CONCENTRATIONS WERE PREVIOUSLY DETECTED ABOVE APPLICABLE CRITERIA.
7. THE SAMPLES WILL BE SUBMITTED TO A NY-CERTIFIED LABORATORY UNDER SIGNED CHAIN-OF-CUSTODY FOR PCBs ANALYSIS.
8. ALL SOIL REMOVED FROM WITHIN THE DELINEATION RING WILL BE PROPERLY DISPOSED IN AN OFF-SITE LOCATION.
9. IF PCBs ARE DETECTED OUTSIDE OF THE DELINEATION RING, THE SOIL WITHIN THE CONTINGENCY RING SHALL ALSO BE PROPERLY DISPOSED IN AN OFF-SITE LOCATION.
10. THE CONTRACTOR SHALL RESTORE THE AREAS WHERE HAZARDOUS SOIL WAS REMOVED TO DESIGN ELEVATIONS BY THE PLACEMENT OF CLEAN SAND, AS DIRECTED BY THE ENGINEER.



**PROPOSED DELINEATION SOIL SAMPLES**

SAMPLE NAME	TARGET DEPTH (FEET) EXISTING GROUND SURFACE
SB14W	2.5 - 3.0
SB14ONT	0.0 - 1.0
SB14OBT	1.5 - 2.5
SB14OBT*	2.0 - 3.0
SB14OBT1	0.0 - 1.0
SB14OBT2*	0.0 - 1.0
SB14OBT3*	0.0 - 1.0
SB14OBT4*	0.0 - 1.0
SB14OBT5*	0.0 - 1.0
SB14OBT6*	0.0 - 1.0
SB14OBT7*	0.0 - 1.0
SB14OBT8*	0.0 - 1.0
SB14OBT9*	0.0 - 1.0
SB14OBT10*	0.0 - 1.0



**PROPOSED DELINEATION SOIL SAMPLES**

- NOTES FOR OTHER OVER EXCAVATION AREAS:**
1. EXISTING SOILS IN SOME OF THE PROPOSED WETLAND RESTORATION AREAS CONTAIN METALS AND OTHER COMPOUNDS THAT ARE HARMFUL TO FISH AND WILDLIFE. THE INTENT OF THE PROPOSED PROJECT IS TO REMOVE THOSE SOILS AND IMPROVE FISH AND WILDLIFE HABITAT. HOWEVER, THERE ARE AREAS WHERE THE SOILS ARE ECOLOGICALLY-HARMFUL SOILS, EXPOSING CLEANER SOILS. AREAS WHERE CLEAN SOIL HORIZONS HAVE NOT BEEN DISCOVERED THROUGH SAMPLING WILL BE OVER-EXCAVATED AND COVERED WITH CLEAN SAND TO MINIMIZE RISK OF FISH AND WILDLIFE EXPOSURE.
  2. OVER EXCAVATION AREAS SHALL HAVE A RADIUS OF 50 FEET.
  3. THE CONTRACTOR SHALL RESTORE THE OVER EXCAVATION AREAS TO DESIGN ELEVATIONS BY THE PLACEMENT OF CLEAN SAND, AS DIRECTED BY THE ENGINEER.

**OVER EXCAVATION**

RESTORE TO DESIGN ELEVATIONS BY THE PLACEMENT OF CLEAN SAND AND FILL

**OVER EXCAVATION AREAS**

LOCATION	NORTHING	EASTING
SB 3	182352.54	931320.14
SB 24	181975.10	931141.10
S 9	181498.57	932548.40
SWCH 6	180800.81	932182.00

NOTE: ALL COORDINATES LISTED ARE AT THE CENTER OF THE 50 FOOT RADIUS OVER EXCAVATION AREAS.

NO.	DATE	REVISION
3/26/15		PREPARATION FOR CONSTRUCTION BID
5/16/14		ADDED SHW AND MLW

**NOTES, ARCHEOLOGICAL TESTING AREAS:**

1. KEY AREAS ON BOTH THE WEST AND EAST SIDES OF THE PLOT REQUIRING ARCHAEOLOGICAL TESTING ARE IDENTIFIED AS POTENTIALLY SENSITIVE AREAS FOR ARCHAEOLOGICAL RESOURCES. ARCHAEOLOGICAL TESTING IS REQUIRED FOR THESE AREAS DURING CONSTRUCTION. REFER TO THE PROJECT SPECIFICATIONS FOR WORK DETAILS.



ARCHAEOLOGICAL TESTING AREAS OF INTEREST REQUIRING ARCHAEOLOGICAL TESTING DURING CONSTRUCTION

**NYCEDC ECONOMIC DEVELOPMENT CORP.**

**SAW MILL CREEK PLOT WETLAND MITIGATION BANK**  
STATEN ISLAND, NEW YORK

**PROJECT AREAS OF INTEREST**

DRAWN BY: JH	APPROVED BY:	TITLE:	PROJECT NO.: 2001984
CHECKED BY: SA	DATE:		SHEET 11 OF 22
SCALE:	DATE: DECEMBER 2015		DWG. NO.

FILE NAME: 11 OVER EXCAVATION AND PROFILE DRAFTING

STATE OF NEW YORK  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
160 N. ZEEB ROAD  
ALBANY, NY 12242

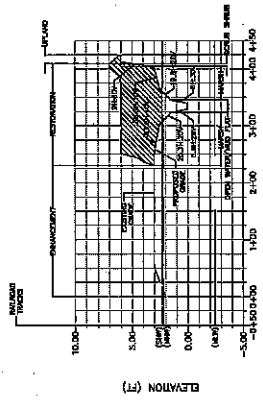
13/14/15  
BETHANY M. BEANHORE  
NATURAL SCIENCE ENGINEER

**LEGEND**

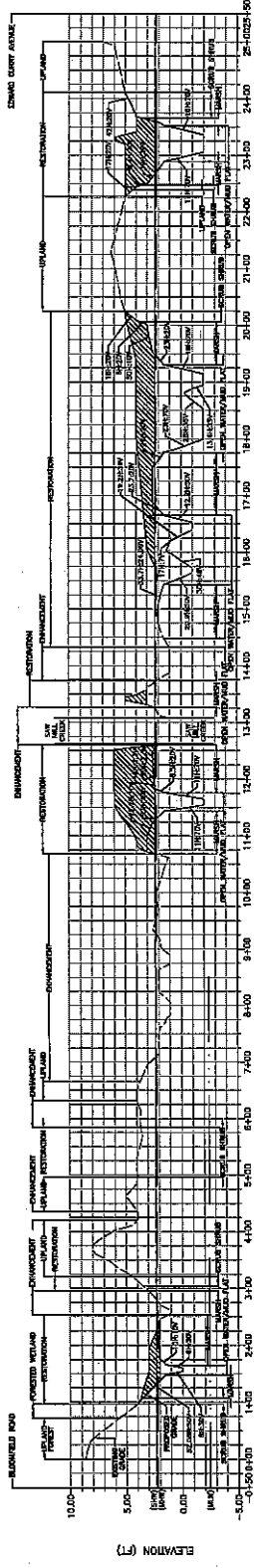
- SPRING HIGH WATER 2.92' (SHW)
- MEAN HIGH WATER 2.39' (MHW)
- MEAN LOW WATER -2.02' (MLW)

1" = 10'





Profile View of -WEST- A-A'



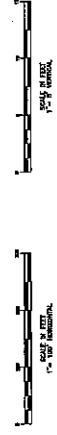
Profile View of -EAST- B-B'

NOTE

- 1. REFER TO PROJECT AREAS OF INTEREST (SHEET 11 OF 22) FOR PROFILE LOCATIONS.

LEGEND

- SPRING HIGH WATER 2.22' (SHW)
- MEAN HIGH WATER 2.25' (MHW)
- MEAN LOW WATER -2.32' (MLW)



NYCED ECONOMIC DEVELOPMENT CORP.

SAW MILL CREEK PLOT WETLAND MITIGATION BANK  
STATEN ISLAND, NEW YORK

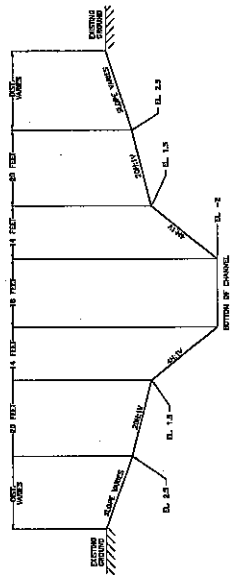
SURFACE PROFILES

ISSUE NO.	DATE	TITLE	PROJECT NO.
1	12/24/13		200 1964
2	12/24/13		
3	12/24/13		
4	12/24/13		
5	12/24/13		
6	12/24/13		
7	12/24/13		
8	12/24/13		
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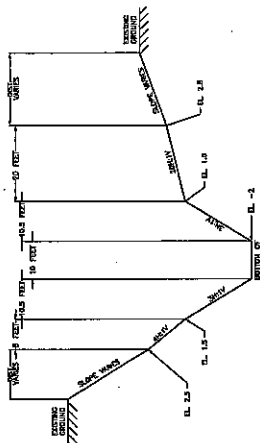


NO.	DATE	REVISION
1	5/16/14	ADDED SHW AND MLW
2	3/20/15	PREPARATION FOR CONSTRUCTION BID

FILE NAME: 11\_LOWER EXCAVATION AND PROFILE MAP.dwg



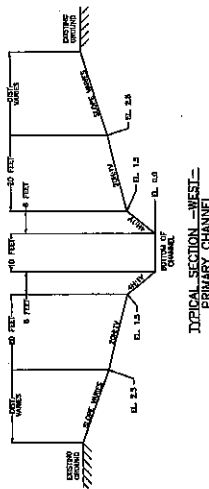
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WETLAND REHABILITATION  
PRIMARY CHANNEL  
N.Y.C.



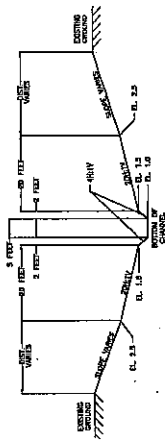
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EMBANKMENT CHANNEL  
N.Y.C.



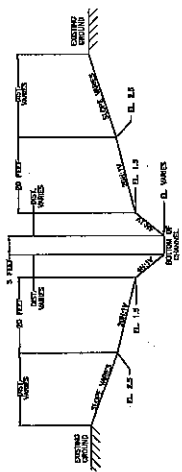
TYPICAL WETLAND SECTION  
N.Y.C.



TYPICAL SECTION - WEST  
PRIMARY CHANNEL  
N.Y.C.



TYPICAL SECTION - WEST  
SECONDARY CHANNEL  
N.Y.C.



TYPICAL SECTION - EAST  
SECONDARY CHANNEL  
N.Y.C.

NOTE  
1. PROPOSED TYPICAL SECTIONS ARE NOT TO SCALE, AND SHALL ONLY BE USED FOR GENERAL CHANNEL SLOPES, ELEVATIONS, AND WIDTHS. ACTUAL WIDTHS, SLOPES, AND ELEVATIONS WILL VARY IN FIELD AND BY CROSS SECTION.

**NYCED** ECONOMIC DEVELOPMENT CORP.

SAW MILL CREEK PILOT WETLAND MITIGATION BANK  
STATEN ISLAND, NEW YORK

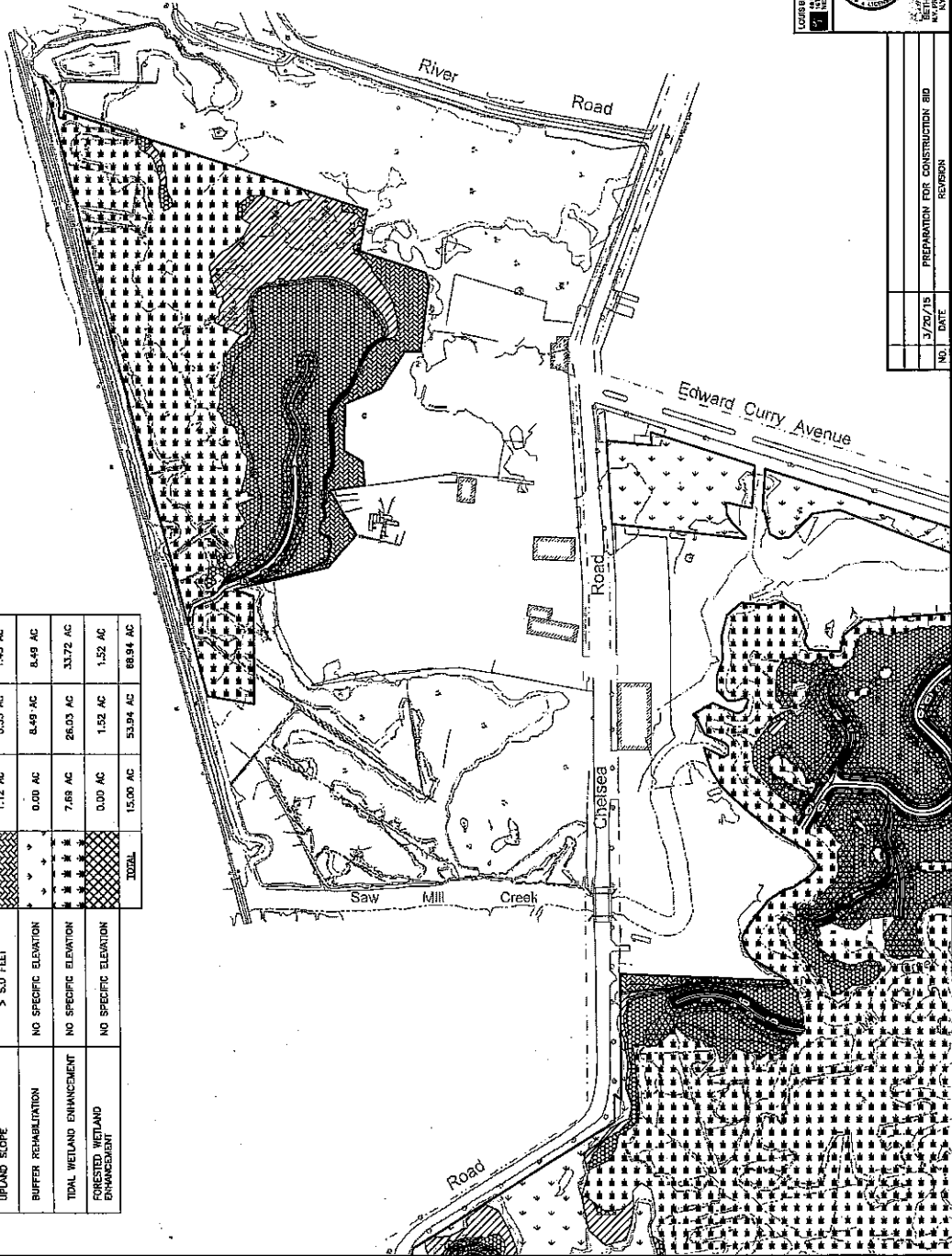


PROPOSED TYPICAL SECTIONS

DOWN BY: MI	APPROVED BY:	TITLE:	DATE:	PROJECT: 2001984
CREATED BY: SA	SCALE AS SHOWN	DATE: DECEMBER 2015	SHEET: 13 OF 22	
DATE: DECEMBER 2015	FILE NAME: J:\PROPOSED TYPICAL SECTIONS.dwg			

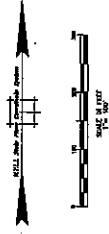
NO.	DATE	REVISION
3/20/15	5/16/14	PREPARATION FOR CONSTRUCTION BID
		ADDED WETLAND SECTION

HABITAT ZONES					
HABITAT ZONE	HABITAT ELEVATION RANGE	HATCHING	WEST	EAST	TOTAL
WETLAND RESTORATION OPEN BAREW/BLUW/POW	< 1.5 FEET	[Hatching Pattern]	0.26 AC	2.79 AC	3.05 AC
WETLAND RESTORATION LOW MARSH	1.5 FEET - 2.5 FEET	[Hatching Pattern]	0.58 AC	5.21 AC	5.79 AC
WETLAND RESTORATION HIGH MARSH	2.5 FEET - 3.5 FEET	[Hatching Pattern]	3.41 AC	7.95 AC	11.36 AC
WETLAND RESTORATION SOLID SHRUB	3.5 FEET - 5.0 FEET	[Hatching Pattern]	1.94 AC	1.92 AC	3.86 AC
UPLAND SLOPE	> 5.0 FEET	[Hatching Pattern]	1.12 AC	0.33 AC	1.45 AC
BUFFER REHABILITATION	NO SPECIFIC ELEVATION	[Hatching Pattern]	0.00 AC	8.49 AC	8.49 AC
TOTAL WETLAND ENHANCEMENT	NO SPECIFIC ELEVATION	[Hatching Pattern]	7.68 AC	26.03 AC	33.72 AC
EXISTING WETLAND ENHANCEMENT	NO SPECIFIC ELEVATION	[Hatching Pattern]	0.00 AC	1.52 AC	1.52 AC
<b>TOTAL</b>			<b>15.00 AC</b>	<b>53.94 AC</b>	<b>68.94 AC</b>



NOTES

1. VERTICAL DATUM IN HWDDB.
2. HORIZONTAL DATUM IN NAD83.



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STATEN ISLAND, NEW YORK

PLANTING PLAN - WEST-

DRIVER BY: MH	APPROVALS:	PROJECT: 2001984
CHECKED BY: SK	TITLE:	DATE:
DATE: DECEMBER 2015	SCALE AS SHOWN	SHEET 14 OF 22
		DWG. NO.

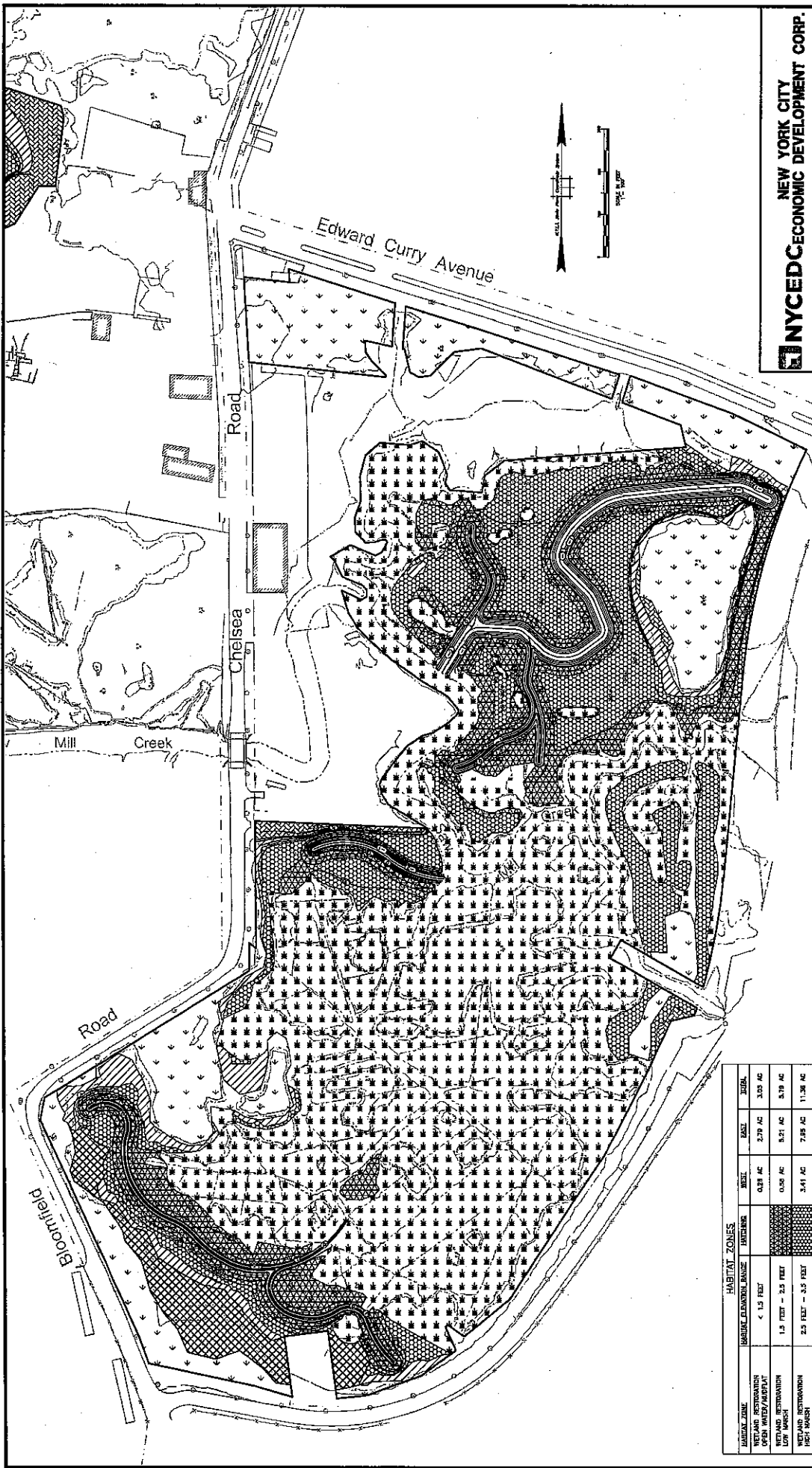
FILE NAME: PLANTING PLAN.dwg

CONSULTING ENGINEER, P.C.  
100 WALL STREET  
NEW YORK, NY 10005



3/20/15  
DATE

PREPARATION FOR CONSTRUCTION BID  
REVISION



**NYCEDC** ECONOMIC DEVELOPMENT CORP.  
 SAW MILL CREEK PILOT WETLAND MITIGATION BANK  
 STATEN ISLAND, NEW YORK

**PLANTING PLAN - EAST-**

DATE: DECEMBER 2015  
 SCALE: AS SHOWN  
 CHECKED BY: SA  
 APPROVED BY: SA  
 PROJECT: 2001984  
 SHEET: 15 OF 22  
 DWG. NO.

DATE: 3/29/15  
 PREPARATION FOR CONSTRUCTION BID



JEFFREY M. BERMAN  
 LICENSE NO. 12547  
 STATE OF NEW YORK  
 PROFESSIONAL ENGINEER

FILE NAME: PLANTING PLAN.AWT

**NOTES**

1. VERTICAL DATUM IN NUMBERS.
2. HORIZONTAL DATUM IN NUMBERS.

HABITAT ZONE	HABITAT ZONES		TOTAL
	HABITAT ELEVATION RANGE	UPWARD	
WETLAND RESTORATION OPEN WATER/ARID/FLAT LOW MARSH	< 1.5 FEET	0.28 AC	3.00 AC
WETLAND RESTORATION LOW MARSH	1.5 FEET - 2.5 FEET	0.26 AC	8.39 AC
WETLAND RESTORATION HIGH MARSH	2.5 FEET - 3.5 FEET	3.41 AC	11.38 AC
WETLAND RESTORATION FORESTED WETLAND ENHANCEMENT	3.5 FEET - 5.0 FEET	1.54 AC	3.98 AC
UPLAND SLOPE	> 5.0 FEET	1.12 AC	1.48 AC
BUFFER REDEMPTION	NO SPECIFIC ELEVATION	0.09 AC	6.49 AC
TOTAL WETLAND ENHANCEMENT	NO SPECIFIC ELEVATION	9.48 AC	33.72 AC
FORESTED WETLAND ENHANCEMENT	NO SPECIFIC ELEVATION	0.60 AC	1.67 AC
TOTAL		15.06 AC	53.84 AC

NO.	DATE	REVISION
3/29/15		PREPARATION FOR CONSTRUCTION BID

**PLANTING TABLE - TIDAL WETLANDS**

Planting Station	Planting Species	Planting Method	Planting Density	Planting Date	Planting Notes
679	679	679	679	679	679
1133	1133	1133	1133	1133	1133
3306	3306	3306	3306	3306	3306
1465	1465	1465	1465	1465	1465
...	...	...	...	...	...

**PLANTING NOTES - CONTINUED**

- EMERGENT PLANTINGS - PLUS 1. LOW MARSHLAND LOG-MARSH  
NO AREA SHALL BE PLANTED UNTIL IT HAS BEEN CLEARED OF FRAGRANTES AND OTHER DEBRIS, PROTECTED BY HERBIVORY FENCING POSTS AND BACK-FILL, AND IMMEDIATELY AFTER PLANTING A 50' X 50' GRID, INSTALLED MYLAR TAPE AND TYNE.
- LOW MARSH AND HIGH MARSH PLANTING WINDOW IS FROM APRIL 1 TO JUNE 15.
- THE PLANTS SHALL BE PLANTED IN THE SOIL NO MORE THAN ONE INCH (1") DEEPER THAN THE TOP OF THE ROOTSTOCK MASS LIES NO MORE THAN ONE INCH (1") BELOW THE SOIL SURFACE.
- PRIOR TO PLACEMENT OF THE PLANT IN THE PLANTING HOLE, FERTILIZER SHALL BE PLACED AT THE RATE OF THIRTY (30) GRAMS PER PLANT. THE PLANTS SHALL THEN BE PLACED AT THE PLANTING DEPTH WITH THE ROOT SYSTEM PROFILE OR SECTION SHALL BE FULLY AND FIRMLY CLOSED. IF A SOIL DEPRESSION IS FORMED ABOVE OR IMMEDIATELY ADJACENT TO THE PLANTING HOLE, IT SHALL BE IMMEDIATELY FILLED WITH SOIL TO BRING THE PLANT AND FERTILIZER INTO THE DEPRESSION TO LEAVE THE PLANTING AREA AT THE SAME ELEVATION AS THE SURROUNDING SOIL OR SLIGHTLY HIGHER.
- JUNCUS SPECIES SHALL BE PLANTED IN THE HIGHER ELEVATION RANGE OF THE HIGH MARSH (EL. 3 TO 3.5) AND SPARTINA ALTERNIFLORA SHALL BE PLANTED IN THE LOWER RANGE (EL. 2.5 TO 3.0). ALL OTHER HIGH MARSH SPECIES WILL BE PLANTED THROUGHOUT THE ENTIRE HIGH MARSH (EL. 2.5 TO 3.5).

**SALT TOLERANT SHRUB PLANTINGS**

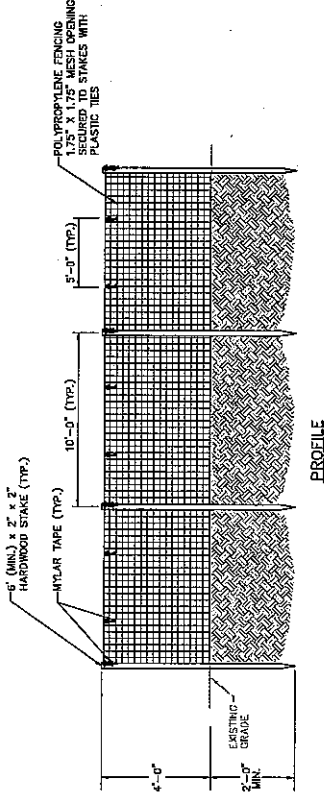
- THE SHRUBS SHALL BE PLANTED AT A COMBINED DENSITY OF 1,750 TO 1,760 SHRUBS PER ACRE AND SPACED AT 5'-FOOT ON CENTER. THE PLANTING WINDOW IS MARCH 15 TO MAY 15.
- ALL SHRUBS SHALL CONFORM TO THE MATERIAL SPECIFICATION REQUIREMENTS OF THE AMERICAN STANDARD FOR NURSERY STOCK (1985 OR LATER EDITION). THE BACKSIZES SHALL CONFORM TO TYPE 4 STOCK, TWO- TO THREE-FOOT (2'-3') TALL, MINIMUM OF TWO CANES.
- PLANT FIRMS SHALL BE DUG APPROXIMATELY FOUR INCHES (4") WIDER THAN THE STOCK SIZE. PRIOR TO PLACEMENT OF THE PLANT IN THE PLANTING HOLE, A 20-GRAM FERTILIZER TABLET (20-10-5 ANALYSIS) SHALL BE PLACED IN THE BOTTOM OF THE PLANTING HOLE. BACKFILL SOIL MATERIALS SHALL BE THE SAME AS EXCAVATED FOR THE PLANTING PITS.

**SHRUB PLANTING - UPLAND SLOPE**

- THE UPLAND SLOPE SHALL BE PLANTED WITH SHRUBS. THE PLANTING PITCH SHALL BE 1:1. THE SOIL MEASURES LESS THAN 10 INCHES/04. SALUBRE SALT LEVEL OF THE SOIL MEASURES LESS THAN 10 INCHES/04.
- ALL SHRUBS SHALL CONFORM TO THE MATERIAL SPECIFICATION REQUIREMENTS OF THE AMERICAN STANDARD FOR NURSERY STOCK (1985 OR LATER EDITION). THE BACKSIZES SHALL CONFORM TO TYPE 4 STOCK, TWO- TO THREE-FOOT (2'-3') TALL, MINIMUM OF TWO CANES.
- PLANT FIRMS SHALL BE DUG APPROXIMATELY FOUR INCHES (4") WIDER THAN THE STOCK SIZE. PRIOR TO PLACEMENT OF THE PLANT IN THE PLANTING HOLE, A 20-GRAM FERTILIZER TABLET (20-10-5 ANALYSIS) SHALL BE PLACED IN THE BOTTOM OF THE PLANTING HOLE. BACKFILL SOIL MATERIALS SHALL BE THE SAME AS EXCAVATED FOR THE PLANTING PITS.

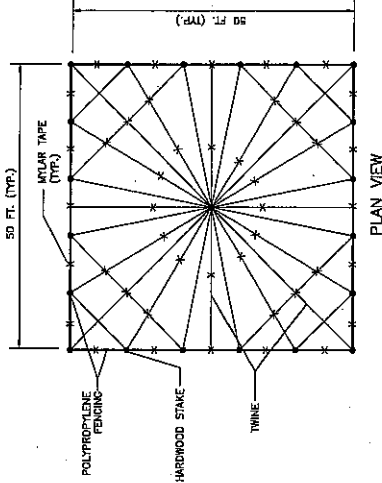
**SEEDING - UPLAND SLOPE**

- THE WARM SEASON SEEDING MIXTURE SHALL BE AS SHOWN IN THE PLANTING TABLE, IN POUNDS OF PURE LIVE SEED PER ACRE.
- WARM SEASON SEEDING SHALL OCCUR AFTER MARCH 15 AND BEFORE JUNE 1.
- NO FERTILIZER SHALL BE APPLIED PRIOR TO THE SEEDING. THE SEEDING AREA SHALL BE DISKED TO A MINIMUM DEPTH OF SIX INCHES (6") AND FROWN TO FORM A GOOD SEED BED. IF DIRECTED BY THE ENGINEER, DISKING MAY BE OMITTED IN FAVOR OF A SHALLOW HARROW OPERATION PRIOR TO THE PLACEMENT OF THE SEED.
- NITROGEN FERTILIZER SHALL NOT BE APPLIED AT THE TIME OF THE SEEDING.
- SEED MAY BE BROADCAST OR DRILL SEEDING. IF BROADCAST SEEDING IS USED, THE SEEDING AREA SHALL BE DISKED WITH A CHAIN OR TIME HARROW TO COVER THE SEED. IF DRILL SEEDING IS USED, THE SEED SHALL BE PLACED AT A MINIMUM DEPTH OF FOUR INCHES (4"). THE MULCH SHALL BE BOUND IN PLACE WITH AN APPROVED BINDER.



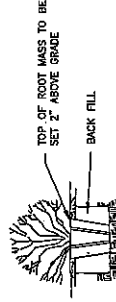
**PROFILE**

NOTE:  
MAX. 50'/60' GRID, TYPICAL GRID MAY VARY, BASED ON SITE CONTOURS AND WATERWAY LOCATIONS.



**PLAN VIEW**

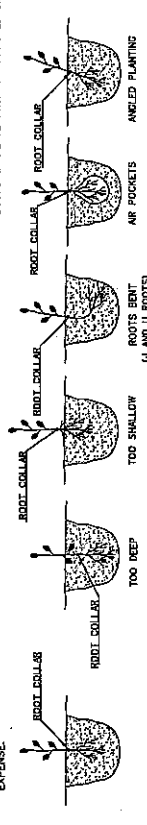
**HERBIVORY FENCING, TYPICAL**



- REMOVE PLANT BY CUTTING OR INVERTING CONTAINER.
- USE A KNIFE OR SHARP BLADE TO REMOVE THE PLANT. THE LENGTH OF THE ROOT BALL SHALL BE MAINTAINED.

**CONTAINERIZED SHRUB PLANTING**

- REMOVE PLANT BY CUTTING OR INVERTING CONTAINER.
- USE A KNIFE OR SHARP BLADE TO REMOVE THE PLANT. THE LENGTH OF THE ROOT BALL SHALL BE MAINTAINED.



**PROPER PLANTING**

**UNACCEPTABLE PLANTING**

**ANKLED PLANTING**

**NYCEDECECONOMIC DEVELOPMENT CORP.**  
SAW MILL CREEK PLOT WETLAND MITIGATION BANK  
STATEN ISLAND, NEW YORK

DATE	APPROVED BY	TITLE	DATE
12/14/15			
DATE	APPROVED BY	TITLE	DATE
12/14/15			

PROJECT	2001994
SHEET	16 OF 22
DATE	DECEMBER 2015
FILE NAME	9 PLANTING NOTES AND DETAILS.dwg

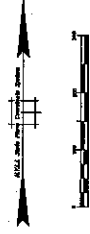


**LEGEND**

- PL — ONLY FOOT TRAFFIC ALLOWED WITHIN PLANNING LIMITS
- CVR — CONSTRUCTION VEHICLE ACCESS APPROVED BY DESIGN ENGINEER
- ▨ INVASIVE PLANT TREATMENT AREA

**NOTES**

1. VERTICAL DATUM IN NAVD83.
2. HORIZONTAL DATUM IN NAD83.
3. ONLY ACCESS BY FOOT IS ALLOWED IN AREAS BEYOND LIMIT OF DISTURBANCE AND WITHIN THE PLANNING LIMIT ZONES.



**NYCEDC** NEW YORK CITY ECONOMIC DEVELOPMENT CORP.

SAW MILL CREEK PILOT WETLAND MITIGATION BANK  
STATEN ISLAND, NEW YORK

SOIL EROSION AND SEDIMENT CONTROL - WEST -

DRAWN BY: JH	APPROVED BY:	TITLE:	PROJECT NO.:
CHECKED BY: SA	DATE:		2001984
SCALE AS SHOWN			SHEET 17 OF 22
DATE: DECEMBER 2013			DWG. NO.

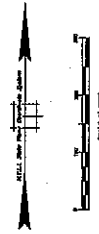
FILE NAME: 10\_SSEC\_PLAN1.MXD.dwg

DESIGNED BY: J. KOSCIUSKO, P.E.  
CHECKED BY: J. KOSCIUSKO, P.E.  
DATE: 12/13/13



EXAMINED BY: J. KOSCIUSKO, P.E.  
DATE: 12/13/13

NO.	DATE	REVISION
1	3/20/13	PREPARATION FOR CONSTRUCTION BID



**NYCEDC** NEW YORK CITY ECONOMIC DEVELOPMENT CORP.

SAW MILL CREEK PILOT WETLAND MITIGATION BANK  
STATEN ISLAND, NEW YORK

SOIL EROSION AND SEDIMENT CONTROL -EAST-

APPROVED BY: [Signature] DATE: [Blank]

APPROVED BY: [Signature] DATE: [Blank]

PROJECT: 2001984  
SHEET: 18 OF 22  
DATE: DECEMBER 2015

FILE NAME: 10\_S000 PLAN.MXD.dwg

CLARK BERGER & ASSOC. P.C.  
100 WALL STREET  
NEW YORK, NY 10005

3/20/15 PREPARATION FOR CONSTRUCTION BD. REVISION

3/20/15 DATE

NO. REVISION

STABILIZED CONSTRUCTION ENTRANCE

REMANENT CHAIN-LINK FENCING

STOCKPILE AREA 80' X 50'

STABILIZED CONSTRUCTION ENTRANCE

STOCKPILE AREA 125' X 85'

STAGING AREA 50' X 200'

STOCKPILE AREA 50' X 75'

FLOATING TIMBER BARRIER

EDWARD CURRY AVENUE

BIONFIELD ROAD

MILL CREEK ROAD

CHELSEA ROAD

**LEGEND**

- PL — ONLY FOOT TRAFFIC ALLOWED WITHIN PLANTING LIMITS
- CVR — CONSTRUCTION VEHICLE ACCESS APPROVED BY DESIGN ENGINEER
- [Hatched Box] — INVASIVE PLANT TREATMENT AREA

**NOTES**

1. VERTICAL DATA IN NUMBERS.
2. HORIZONTAL DATA IN METERS.
3. ONLY ACCESS BY FOOT IS ALLOWED IN AREAS BEYOND LIMIT OF DISTURBANCE AND WITHIN THE PLANTING LIMIT ZONES.

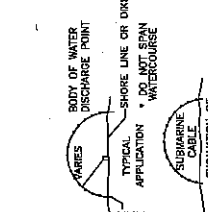
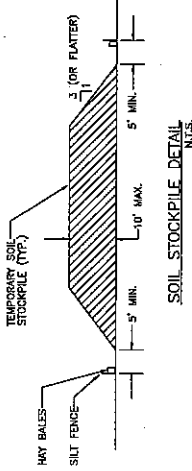
**SOIL EROSION AND SEDIMENT CONTROL NOTES**

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
2. ANY DISTURBED AREAS ABOVE ELEVATION 2.42 FT (MEAN HIGH WATER) LEFT EXPOSED FOR MORE THAN 30 DAYS PERMANENT PROTECTION SHALL BE INSTALLED. PERMANENT PROTECTION SHALL BE MAINTAINED UNTIL STRAW OR EQUIVALENT MATERIAL AT A RATE OF 2 TONS PER ACRE, ACCORDING TO NEW YORK STATE STANDARDS, AND SEEDING/VEGETATION IS ESTABLISHED.
3. PERMANENT VEGETATION WILL BE ESTABLISHED ON ALL EXPOSED AREAS WITHIN 10 DAYS AFTER FINAL GRADING. UNWEETED DEWATERING IS NOT PERMITTED. TAKE ALL NECESSARY PRECAUTIONS DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSPORT. ANY DEWATERING METHODS USED WILL BE IN ACCORDANCE WITH STATE STANDARDS.
4. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED WITH FRESHWATER UNTIL THE SURFACE IS WET, IN ACCORDANCE WITH THE STATE STANDARDS FOR EROSION CONTROL.
5. ALL SOIL WASHED, DISPERSED, SPILLED OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHTS-OF-WAYS WILL BE REMOVED IMMEDIATELY.
6. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
7. STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
8. ACCORDANCE WITH THE NEEDED SPREADS PLANS.

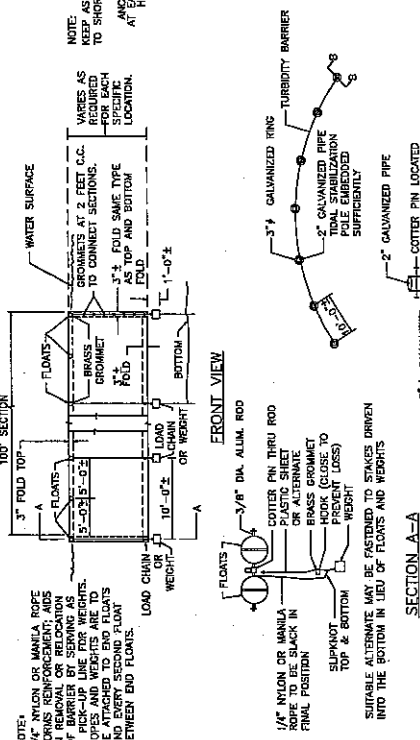
**CONSTRUCTION SEQUENCE:**

1. MOBILIZE TO THE SITE.
2. INSTALL ALL SITE SOIL EROSION AND SEDIMENT CONTROL MEASURES AND TREE PROTECTION.
3. ESTABLISH VEGETATION/PERMANENT TRAFFIC CONTROL MEASURES.
4. LOCATE AND MARK ALL UNDERGROUND UTILITIES WITHIN AREAS OF EXCAVATION.
5. SET UP AND INSTALL TEMPORARY WATER DIVERSION MEASURES (INCLUDING DEWATERING CONTROLS AND MEASURES).
6. EXCAVATE AND GRADE SITE TO SUB-GRADE ELEVATIONS.
7. REPAIR SUB-GRADE ELEVATIONS ACCORDING TO PLANTING PLAN.
8. REPAIR ALL DISTURBED AREAS TO MATCH EXISTING CONDITIONS AND CLEANUP SITE.
9. DEBRUISE.

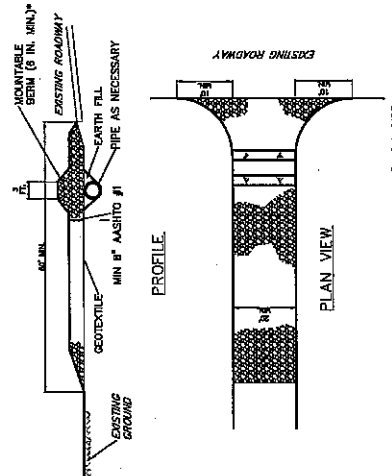
NOTE: THIS IS A GENERAL CONSTRUCTION SEQUENCE ONLY. THE CONTRACTOR SHALL PROVIDE A DETAILED CONSTRUCTION SEQUENCE PRIOR TO THE START OF CONSTRUCTION.



- NOTES:**
1. INSTALL TURBIDITY BARRIER TO PREVENT DRIFTING OF SILT CAUSED BY DISCHARGE OF STORMWATER FROM EXCAVATION, DREDGING OR FILLING OPERATIONS, OR OTHER ACTIVITIES THAT COULD CAUSE TURBIDITY.
  2. EXACT PLACEMENT OF TURBIDITY BARRIER SHALL BE SO AS TO EFFECTIVELY CONTROL SILT DISCHARGE UNDER THE CONDITIONS PRESENT ON A PARTICULAR PROJECT.
  3. THE DETAILS SHOWN ON THIS SHEET ARE GENERAL IN NATURE AND USE OF MATERIALS MAY BE USED AS APPROVED.
  4. USE APPROPRIATE NAVIGATIONAL WARNING LIGHTS WHEN USED NEXT TO NAVIGATIONAL CHANNEL.



- NOTES:**
1. REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.
  2. BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.
  3. MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPOSED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.
  4. MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT ACCUMULATED ON THE ENTRANCE SHALL BE REMOVED IMMEDIATELY. EXCESSIVE ADVANTAGE OF SEDIMENT BEING DETOURD ON ROADWAY, EXCEED LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INSUREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.



\* MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE

**CONSTRUCTION ENTRANCE**

N.T.S.

**NYCED ECONOMIC DEVELOPMENT CORP.**  
**SAW MILL CREEK PILOT WETLAND MITIGATION BANK**  
**STATEN ISLAND, NEW YORK**

**SOIL EROSION AND SEDIMENT CONTROL -NOTES AND DETAILS-**

DRAWN BY: JH	APPROVED BY: APPROVALS	PROJECT NO.: 2001984
CHECKED BY: SA	TITLE	DATE
SCALE	DATE	SHEET 19 OF 22
DATE REVISION 2013		DWG. NO.

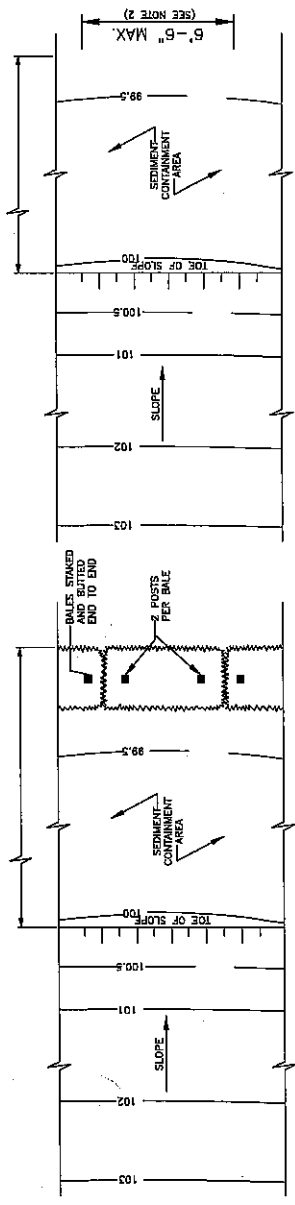
FILE NUMBER: T0\_SECC\_PLAN182013

LOUIS BERKELEY ASSOCIATES, P.C.  
 100 WEST 17TH STREET, 10TH FLOOR  
 NEW YORK, NY 10011

NO.	DATE	REVISION
	3/20/13	PREPARATION FOR CONSTRUCTION BID

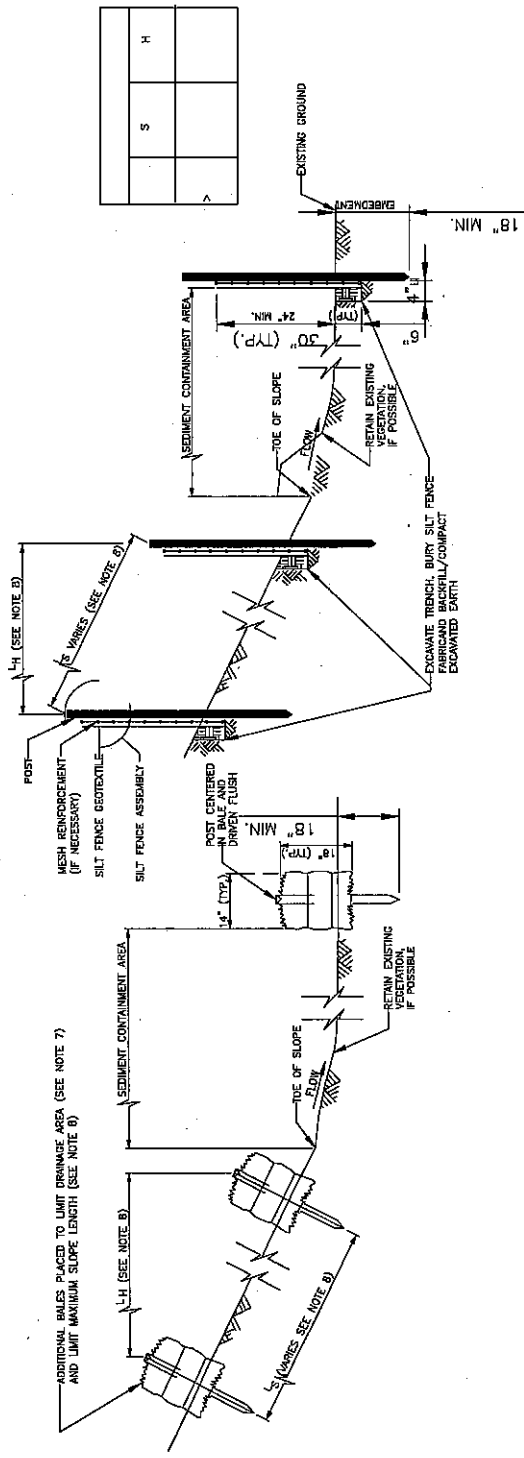


- A. THE PRIMARY PURPOSE OF A TEMPORARY SILT FENCE OR TEMPORARY HYDRAULIC SILT FENCE IS TO REDUCE RUNOFF VELOCITY AND TRAP SEDIMENT. VELOCITY IS REDUCED, WATER IS IMPOUNDED BEHIND THE MEASURE, AND SEDIMENT FALLS OUT OF SUSPENSION.
- B. TEMPORARY SILT FENCE OR TEMPORARY HYDRAULIC SILT FENCE SHALL BE INSTALLED ON A LINE OF EQUAL ELEVATION (CONTIGUOUS). THEY MAY BE INSTALLED AT THE TOE OF SLOPE OR AT THE TOP OF SLOPE, AS SHOWN IN THE DETAIL.
- C. TEMPORARY HYDRAULIC SILT FENCE SHALL NOT BE USED IN OR ACROSS A FLOWING NATURAL CHANNEL, OR AREAS OF CONCENTRATED FLOW.
- 1. TEMPORARY SILT FENCE OR TEMPORARY HYDRAULIC SILT FENCE SHALL BE PLACED A MINIMUM OF 10' FROM TOE OF SLOPE TO PROVIDE ADEQUATE AREA FOR SEDIMENT STORAGE AND FACILITATE MAINTENANCE OF SEDIMENT CONTAINMENT AREA.
- 2. POSTS MAY BE 1/2" x 1/2" (MIN.) HARDWOOD, 1

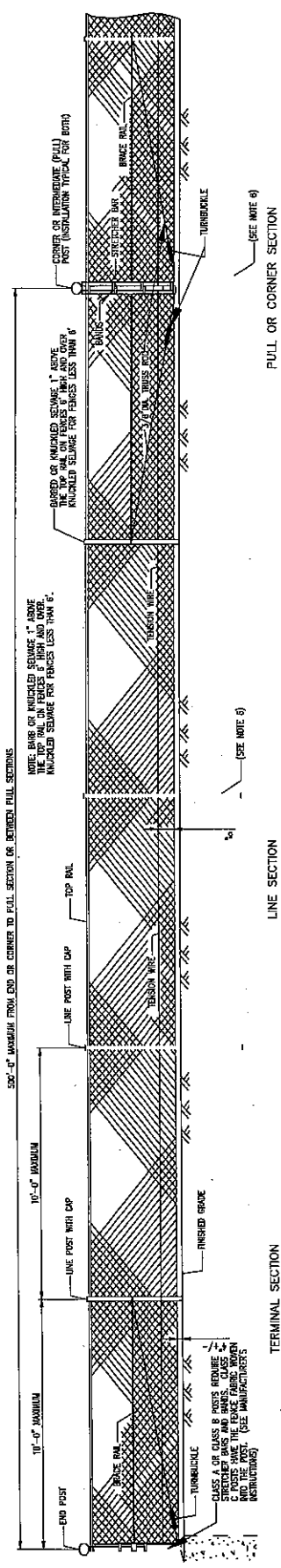


PLAN

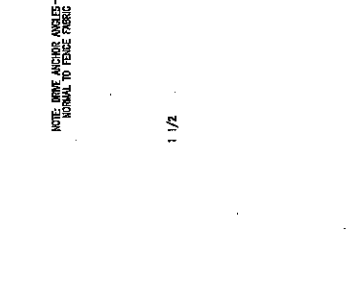
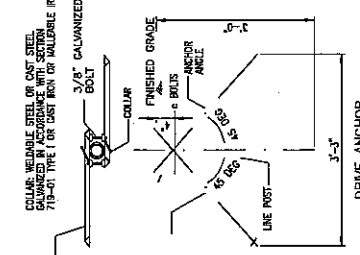
PLAN



S	H

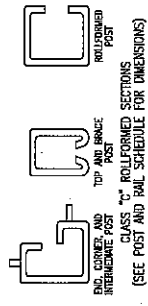


- NOTES:**
- POSTS, INCLUDING DUCKSHOE, SHALL BE SET INSIDE THE RAIL LINE SO THAT FENCING PLACED ON THE RAIL LINE WILL BE AS NEARLY ON THE RAIL LINE AS POSSIBLE. WHEN INTERFERED BY THE END POST, THE POST SHALL BE PLACED ON THE OPPOSITE SIDE OF THE RAIL SO THAT THE FABRIC CAN BE PULLED TIGHT AGAINST THE POST.
  - POSTS IN PULL - WHERE GENERALIZED POSTS ARE SPECIFIED AS 1/2" DIA. 1/2" DIA. POSTS SHALL BE MADE AFTER INSPECTING THE PLOTS. THE PLOTS SHALL BE BACKFILLED WITH A HORIZONTAL 1/2" MORTAR CONSISTENTLY SHOWING TO SIGNS OF FREE WATER. THE HAND WORK AND CONSTRUCTION OF THE MORTAR SHALL BE PERFORMED IN A MANNER APPROVED BY THE ENGINEER.
  - CORNER POSTS SHALL BE USED AT SHARP BREAKS IN VERTICAL GRADE AND CHANGES IN HORIZONTAL ALIGNMENT OF 15 DEGREES AND OVER. PULL POSTS SHALL BE USED EVERY 500' ON STRAIGHT RUNS OF CHANNEL LINK FENCE OR AS DIRECTED BY THE CONTRACTOR.
  - THE CONTRACTOR SHALL SUBMIT THE DETAILS FOR THE SPAIN LINK FENCE IF PLANS TO DEVIATE TO THE DESIGNER. NO FENCE SHALL BE INSTALLED PRIOR TO THE APPROVAL OF THE DESIGNER.
  - STEEL PILES AND SHAPES SHALL BEHOLD AT LEAST 50% OF THE WEIGHT SPECIFIED ON THIS SHEET. THEY MAY EXCEED THE SPECIFIED WEIGHT.
  - THE CONTRACTOR SHALL HAVE THE OPTION OF USING ALUMINUM OR GALVANIZED STEEL INSTEAD OF STEEL. THE MANUFACTURER EXCEPT THAT THE LINE POSTS WITH TENSION WIRES ATTACHED AND ALL END CORNER POSTS SHALL BE GALVANIZED OR ALUMINUM. THE CONTRACTOR SHALL SUBMIT THE DETAILS FOR THE ALUMINUM OR GALVANIZED STEEL TO THE DESIGNER. THE CONTRACTOR SHALL SUBMIT THE DETAILS FOR THE ALUMINUM OR GALVANIZED STEEL TO THE DESIGNER. THE CONTRACTOR SHALL SUBMIT THE DETAILS FOR THE ALUMINUM OR GALVANIZED STEEL TO THE DESIGNER.
  - CHANNEL LINK FENCE WITH TOP RAIL SHALL NOT BE USED WITHIN 25'-0" OF TRAVELED HWY.



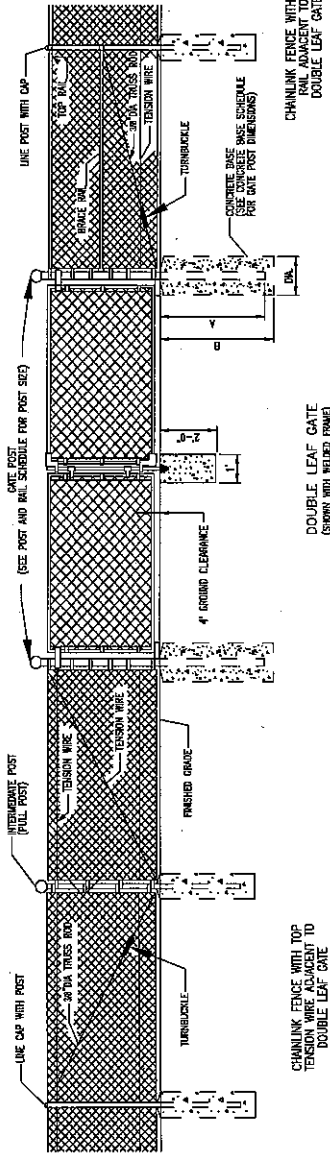
USE	POST AND RAIL SECTION		STEEL	
	SECTION	NPS DESIGNATOR	WEIGHT (LBS/FT)	
TOP RAIL	CLASS B STEEL TUBING	1 1/4	1.84	
LINE POSTS FOR FENCES 6' AND UNDER	CLASS B STEEL TUBING	1 1/2	2.28	
LINE POSTS FOR FENCES GREATER THAN 6' AND EQUAL TO OR LESS THAN 8'	CLASS B STEEL TUBING	2	3.12	
LINE POSTS FOR FENCES GREATER THAN 8' AND EQUAL TO OR LESS THAN 10'	CLASS B STEEL TUBING	2	3.12	
LINE POSTS FOR FENCES OVER 10'	CLASS B STEEL TUBING	2 1/2	4.64	

ACCESSORY	STEEL
FABRIC TIES FOR TOP AND BRACE	8 GA ALUMINUM WIRE #1 2 1/2" C.C. MAX.
FABRIC TIES FOR LINE POSTS	6 GA ALUMINUM WIRE #1 1 1/2" C.C. MAX.
FABRIC TIES FOR TENSION WIRE	11 GA ALUMINUM WIRE #1 1 1/2" D.C.
BOTTOM TENSION WIRE	7 GA CALVANIZED STEEL



CLASS 1-6 ROLLED SECTIONS (SEE POST AND RAIL SCHEDULE FOR DIMENSIONS)

21/22



CHAINLINK FENCE WITH TOP TENSION WIRE ADJACENT TO DOUBLE LEAF GATE

DOUBLE LEAF GATE (SHOWN WITH WELDED FRAME)

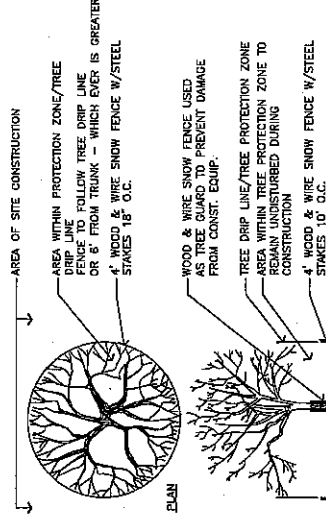
PERMANENT FENCE GATE N.T.S.

- NOTES:
- GATE POSTS IN ROCK, WHERE SUBSISTING ROCK IS ENCOUNTERED, A RIGID 1" LARGER THAN THE GATE POST AND A MINIMUM OF 1.5" FOR SMALL LIFE GATES UP TO 12" GATES AND 2" FOR LARGER GATES. FOR SMALL LIFE GATES UP TO 12" GATES, THE POST SHALL BE ENCASED IN A CONCRETE CURB WITH A MINIMUM OF 12" SPAN TO 24" SPAN. FOR LARGER GATES, THE POST SHALL BE ENCASED WITH A MINIMUM OF 12" SPAN TO 24" SPAN. THE CONCRETE CURB SHALL BE ENCASED IN A CONCRETE CURB WITH A MINIMUM OF 12" SPAN TO 24" SPAN. THE CONCRETE CURB SHALL BE ENCASED IN A CONCRETE CURB WITH A MINIMUM OF 12" SPAN TO 24" SPAN. THE CONCRETE CURB SHALL BE ENCASED IN A CONCRETE CURB WITH A MINIMUM OF 12" SPAN TO 24" SPAN.
  - THE CONTRACTOR SHALL SUBMIT THE DETAILS FOR GATES AND CHAINLINK FENCE ADJACENT TO THEM TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION.
  - STEEL PIPES AND WOOD POSTS SHALL BE AT LEAST ONE (1) INCH ABOVE THE WEIGHT SPECIFIED ON THIS SHEET, THEY MAY EXCEED THE SPECIFIED WEIGHT.

USE	DIA.	A	B
GATE POST FOR DOUBLE LEAF GATES UP TO 24" SPAN	14"	3'-0"	3'-5"

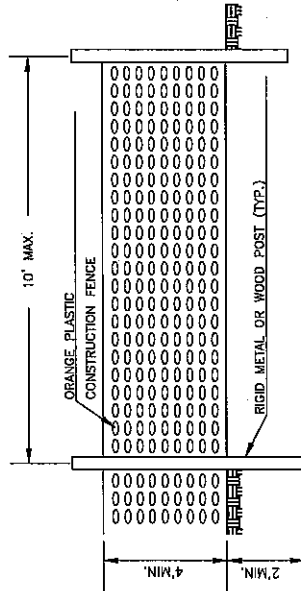
(SEE NOTE 1)  
\*FROM ANSI - H35.2(Q)

USE	SECTION	STEEL	
		WIRE DESIGNATOR	WIRE SIZE (INCHES)
GATE POSTS FOR DOUBLE LEAF GATES, 10" - 24" SPAN	SCHEDULE 40 PIPE ROLLFORMED	3 1/2	4"
GATE FRAME FOR GATES GREATER THAN 24" IN WIDTH	SCHEDULE 40 PIPE	2	2 3/8"



TREE PROTECTION DURING SITE CONSTRUCTION N.T.S.

NOTE: TREE PROTECTION SHALL BE USED AT THE DISCRETION OF THE ENGINEER DURING CONSTRUCTION ON SITE.



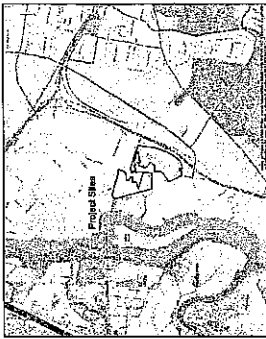
ORANGE CONSTRUCTION FENCE DETAIL N.T.S.

**NYCEDCECONOMIC DEVELOPMENT CORP.**  
SAW MILL CREEK PILOT WETLAND MITIGATION BANK  
STATEN ISLAND, NEW YORK

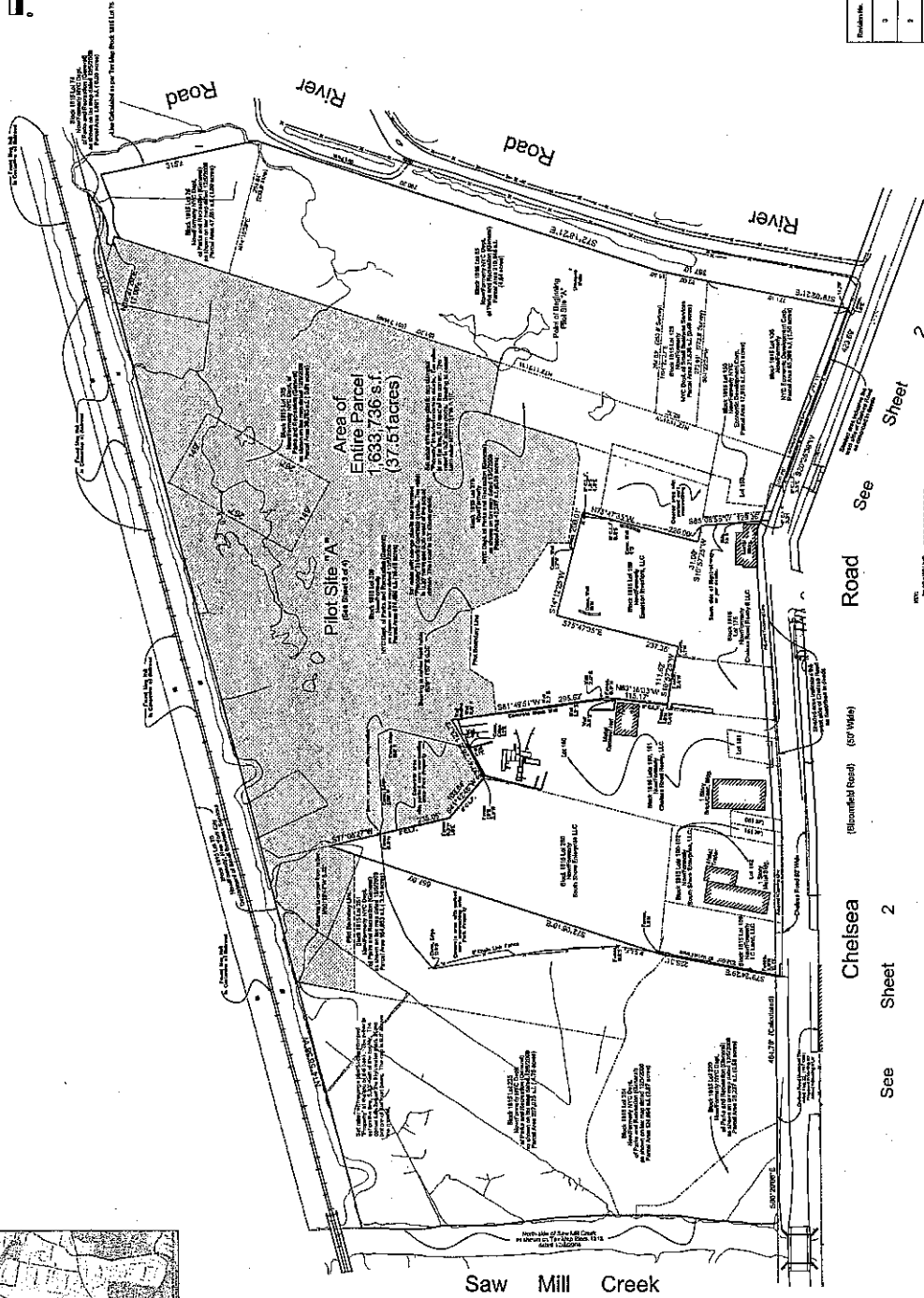
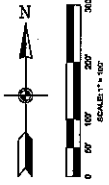
SOIL EROSION AND SEDIMENT CONTROL  
-NOTES AND DETAILS-

APPROVED BY:	TITLE:	DATE:	PROJECT:
APPROVED BY:	TITLE:	DATE:	2001984
CHECKED BY: SA			SHEET 22 OF 22
SCALE:		DATE: DECEMBER 2013	DWS. NO.

FILE NAME: P0\_0502-P0-AN-10-10.dwg



Key Map  
(Not to Scale)



See Sheet 2

See Sheet 2

See Sheet 2

See Sheet 2

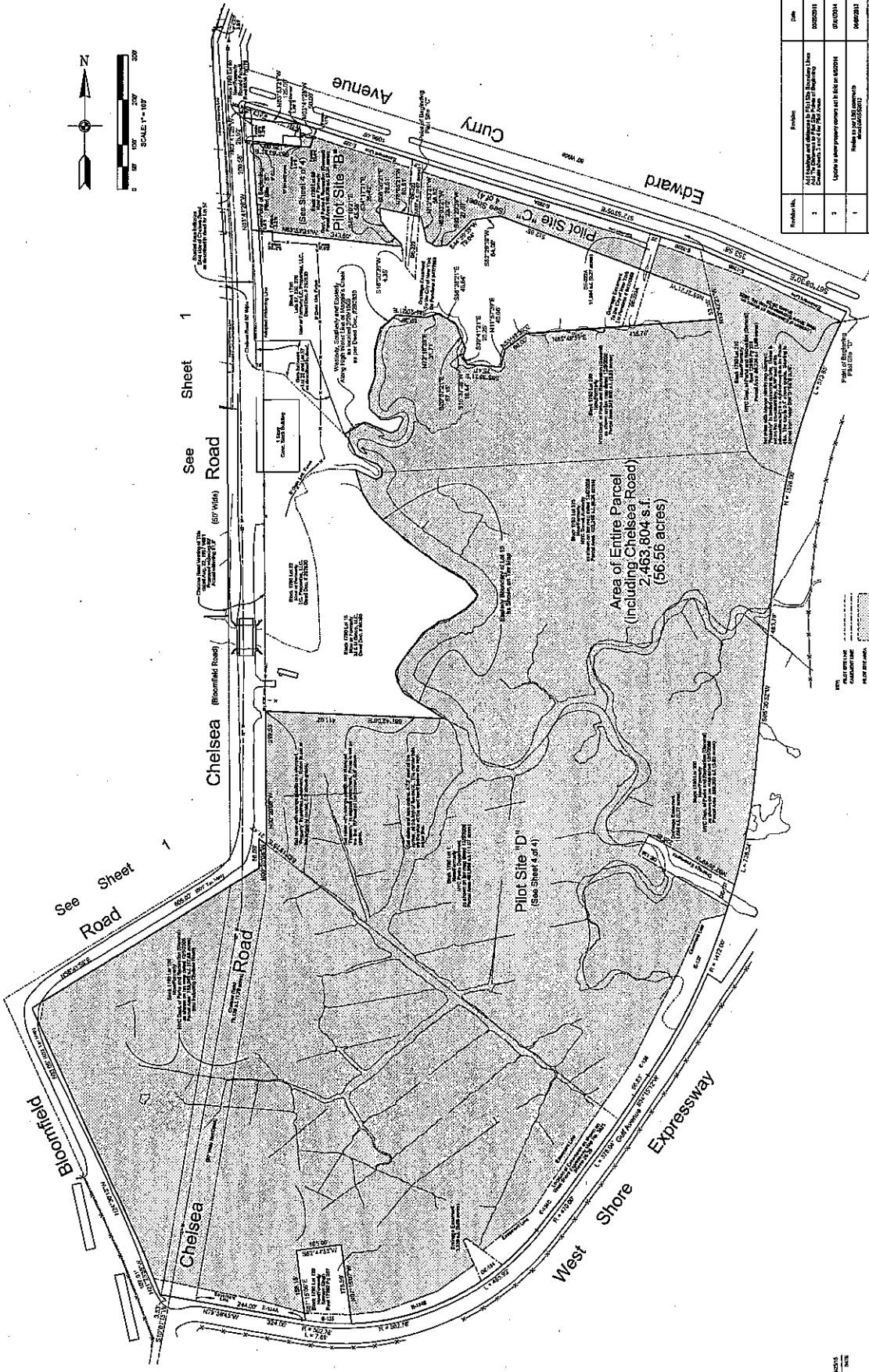
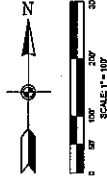
**LEGEND**

<p><b>LAND USES</b></p> <ul style="list-style-type: none"> <li>DAY</li> <li>OFFICE</li> <li>RETAIL</li> <li>INDUSTRIAL</li> <li>RESIDENTIAL</li> <li>UNDEVELOPED</li> <li>WATER</li> </ul>	<p><b>UTILITIES</b></p> <ul style="list-style-type: none"> <li>ELECTRICAL</li> <li>GAS</li> <li>GAS SERVICE VALVE</li> <li>SEWER</li> <li>SEWER MANHOLE</li> <li>SEWER INLET</li> <li>SEWER LIFT STATION</li> <li>SEWER VALVE</li> <li>TELEPHONE</li> <li>TELEPHONE MANHOLE</li> <li>TELEPHONE INLET</li> </ul>	<p><b>VEGETATION</b></p> <ul style="list-style-type: none"> <li>BARREN</li> <li>GRASS</li> <li>GRASS/SHRUB</li> <li>SHRUB</li> <li>WOODLAND</li> <li>WOODLAND</li> <li>WOODLAND</li> <li>WOODLAND</li> <li>WOODLAND</li> <li>WOODLAND</li> </ul>	<p><b>MATERIALS</b></p> <ul style="list-style-type: none"> <li>ASPHALT</li> <li>GRAVEL</li> <li>GRAVEL</li> <li>GRAVEL</li> <li>GRAVEL</li> <li>GRAVEL</li> <li>GRAVEL</li> <li>GRAVEL</li> <li>GRAVEL</li> <li>GRAVEL</li> </ul>	<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>ADJACENT LOT</li> <li>ADJACENT LOT</li> <li>ADJACENT LOT</li> <li>ADJACENT LOT</li> <li>ADJACENT LOT</li> <li>ADJACENT LOT</li> <li>ADJACENT LOT</li> <li>ADJACENT LOT</li> <li>ADJACENT LOT</li> <li>ADJACENT LOT</li> </ul>	<p><b>NOTES</b></p> <ul style="list-style-type: none"> <li>1. See Sheet 1 for details.</li> <li>2. See Sheet 2 for details.</li> <li>3. See Sheet 3 for details.</li> <li>4. See Sheet 4 for details.</li> </ul>
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<p><b>BOUNDARY SURVEY OF</b> <b>Saw Mill Creek Park</b> Richmond County, NY</p> <p>Prepared for: Raymond &amp; Bruce L. Lerner, LLP 111 West 10th Street, Suite 1100 New York, NY 10011</p>	<p><b>DATE</b> 2013</p> <p><b>PROJECT</b> Saw Mill Creek Park</p> <p><b>CLIENT</b> Raymond &amp; Bruce L. Lerner, LLP</p> <p><b>SCALE</b> 1" = 100'</p>
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Raymond & Bruce L. Lerner, LLP  
111 West 10th Street, Suite 1100  
New York, NY 10011  
Tel: (212) 123-4567  
Fax: (212) 123-4568  
www.rll.com



Parcel No.	Parcel	Area
1	All land and interests in the City of Richmond, Virginia, within the boundaries of the City of Richmond, Virginia, as shown on the attached map.	2,463,804 s.f.
2	Land to be reserved for use as a public park, as shown on the attached map.	1,000,000 s.f.
3	Land to be reserved for use as a public park, as shown on the attached map.	1,463,804 s.f.

Block 1780 - Lots 1, 60, 201, 202, 276, 280  
Block 1781 - Lot 100

### LEGEND

Symbol	Description
(Circle with dot)	EXISTING BUILDING
(Circle with cross)	PROPOSED BUILDING
(Circle with slash)	EXISTING DRIVEWAY
(Circle with vertical line)	PROPOSED DRIVEWAY
(Circle with horizontal line)	EXISTING SIDEWALK
(Circle with diagonal line)	PROPOSED SIDEWALK
(Circle with wavy line)	EXISTING PAVEMENT
(Circle with grid)	PROPOSED PAVEMENT
(Circle with vertical wavy line)	EXISTING CURB
(Circle with horizontal wavy line)	PROPOSED CURB
(Circle with diagonal wavy line)	EXISTING LANDSCAPE
(Circle with vertical wavy line)	PROPOSED LANDSCAPE
(Circle with horizontal wavy line)	EXISTING FENCE
(Circle with diagonal wavy line)	PROPOSED FENCE
(Circle with vertical wavy line)	EXISTING UTILITY
(Circle with horizontal wavy line)	PROPOSED UTILITY
(Circle with diagonal wavy line)	EXISTING EASEMENT
(Circle with vertical wavy line)	PROPOSED EASEMENT
(Circle with horizontal wavy line)	EXISTING RIGHT-OF-WAY
(Circle with diagonal wavy line)	PROPOSED RIGHT-OF-WAY
(Circle with vertical wavy line)	EXISTING ADJACENT PROPERTY
(Circle with horizontal wavy line)	PROPOSED ADJACENT PROPERTY
(Circle with diagonal wavy line)	EXISTING PUBLIC PROPERTY
(Circle with vertical wavy line)	PROPOSED PUBLIC PROPERTY
(Circle with horizontal wavy line)	EXISTING WATER
(Circle with diagonal wavy line)	PROPOSED WATER
(Circle with vertical wavy line)	EXISTING WOOD
(Circle with horizontal wavy line)	PROPOSED WOOD
(Circle with diagonal wavy line)	EXISTING OPEN SPACE
(Circle with vertical wavy line)	PROPOSED OPEN SPACE
(Circle with horizontal wavy line)	EXISTING ROAD
(Circle with diagonal wavy line)	PROPOSED ROAD
(Circle with vertical wavy line)	EXISTING RAILROAD
(Circle with horizontal wavy line)	PROPOSED RAILROAD
(Circle with diagonal wavy line)	EXISTING AIRPORT
(Circle with vertical wavy line)	PROPOSED AIRPORT
(Circle with horizontal wavy line)	EXISTING PORT
(Circle with diagonal wavy line)	PROPOSED PORT
(Circle with vertical wavy line)	EXISTING AIR FORCE
(Circle with horizontal wavy line)	PROPOSED AIR FORCE
(Circle with diagonal wavy line)	EXISTING NAVY
(Circle with vertical wavy line)	PROPOSED NAVY
(Circle with horizontal wavy line)	EXISTING MARINE CORPS
(Circle with diagonal wavy line)	PROPOSED MARINE CORPS
(Circle with vertical wavy line)	EXISTING COAST GUARD
(Circle with horizontal wavy line)	PROPOSED COAST GUARD
(Circle with diagonal wavy line)	EXISTING OTHER
(Circle with vertical wavy line)	PROPOSED OTHER

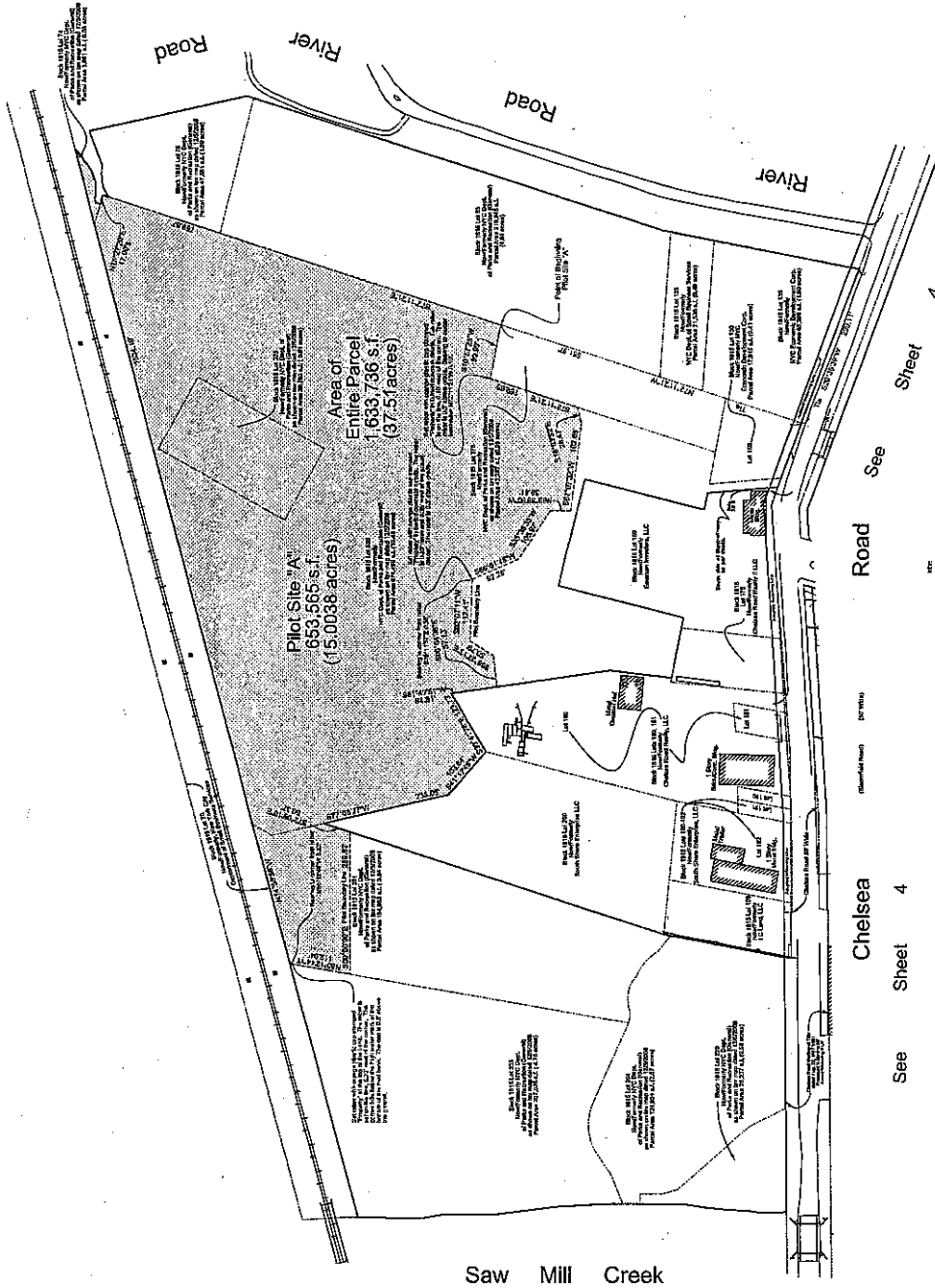
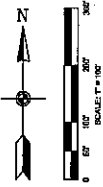


APPROVED AND AUTHORIZED FOR THE CITY OF RICHMOND, VIRGINIA, BY THE CITY ENGINEER AND THE CITY COMMISSIONERS.

DATE: 10/20/13

BY: [Signature]

This plan shows the proposed site plan for the proposed development of the area shown on the attached map. The plan is subject to the approval of the City of Richmond, Virginia, and the City Commission. The plan is subject to the approval of the City of Richmond, Virginia, and the City Commission. The plan is subject to the approval of the City of Richmond, Virginia, and the City Commission.



Saw Mill Creek

Chelsea  
See Sheet 4

Road See  
Sheet 4

Category	Symbol	Category	Symbol	Category	Symbol	Category	Symbol
<b>LANDSCAPE</b>	☉	<b>UTILITY LINES</b>	☐	<b>SEWERAGE</b>	☐	<b>LEAKAGE</b>	☐
Tree	☉	Electric	☐	Sanitary	☐	Water	☐
Shrub	☉	Gas	☐	Storm	☐	Electric	☐
Grass	☉	Water	☐	Sanitary	☐	Gas	☐
Water	☉	Sanitary	☐	Water	☐	Water	☐
Water	☉	Water	☐	Water	☐	Water	☐
Water	☉	Water	☐	Water	☐	Water	☐
Water	☉	Water	☐	Water	☐	Water	☐

Problem No.	Problem	Date
1	As shown on the plan, the boundary line between the two parcels is shown as a dashed line. It is suggested that the boundary be shown as a solid line.	06/20/13
2	As shown on the plan, the boundary line between the two parcels is shown as a dashed line. It is suggested that the boundary be shown as a solid line.	06/20/13
3	As shown on the plan, the boundary line between the two parcels is shown as a dashed line. It is suggested that the boundary be shown as a solid line.	06/20/13

Block 1645, Lots 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

**Boundary Survey of Saw Mill Creek Park**

Borough of Salem Island, Richmond County, NY

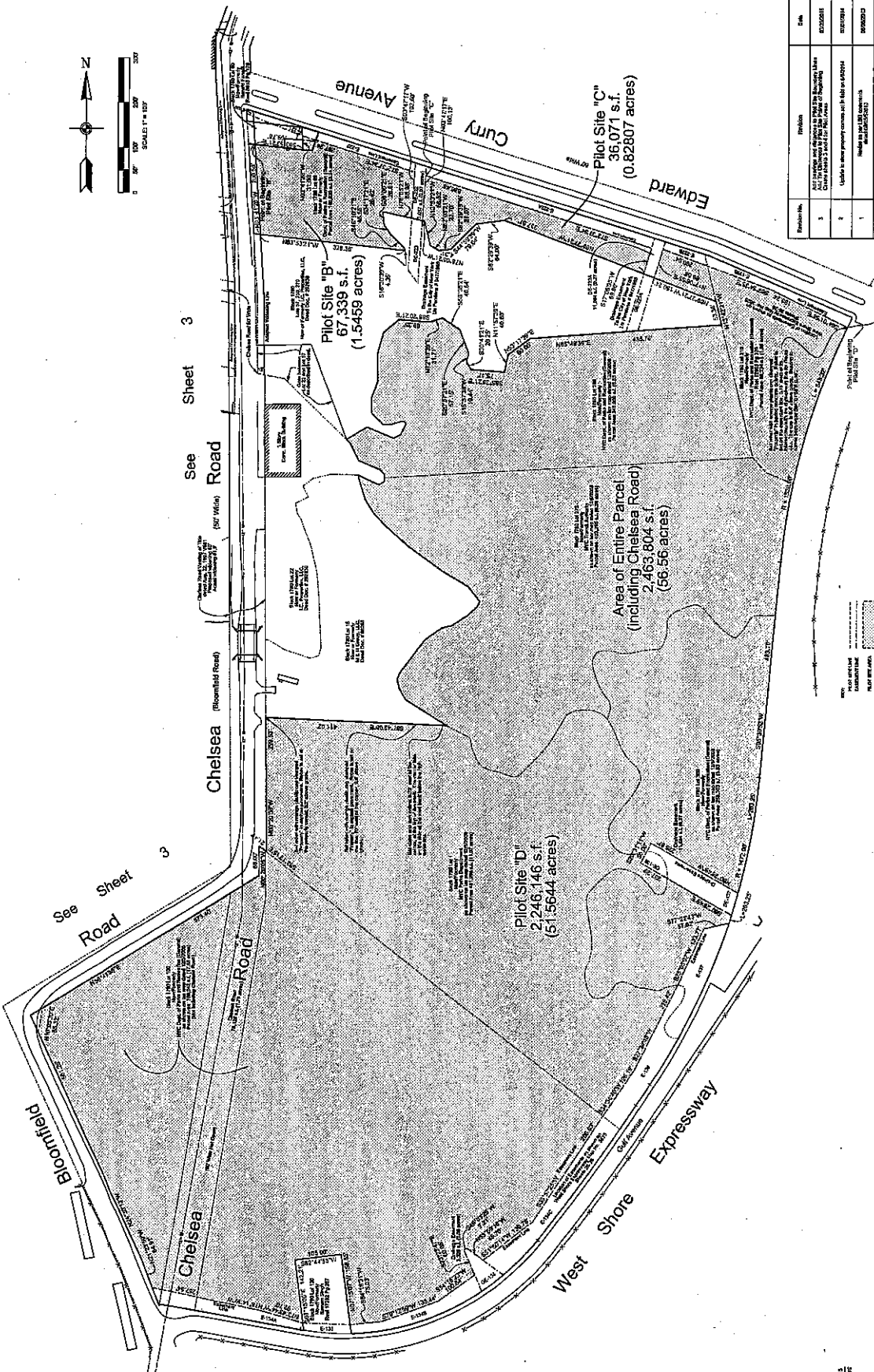
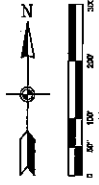
Office of Engineering & Surveying  
11 South Main Street, Suite 101  
Salem Island, NY 11789

Scale: 1" = 100'



2013  
06/20/13

The undersigned has examined the plan and the field notes and has found that the same comply with the provisions of the laws of this State relating to the practice of the profession of Surveying and the preparation of maps and plans. The undersigned certifies that the boundary lines shown on the plan are correct and true to the best of his knowledge and belief.



Parcel No.	Parcel	Area
1	Parcel 1	36,071 s.f. (0.82807 acres)
2	Parcel 2	67,339 s.f. (1.5459 acres)
3	Parcel 3	2,246,146 s.f. (51,564.4 acres)

**Boundary Survey of  
Saw Mill Creek Park**

Survey of Station Island, Chatham County, NY

Surveyed by: [Name]

Date: [Date]

LEGEND	
	EASEMENT
	RIGHT OF WAY
	UTILITY EASEMENT
	ENCROACHMENT
	SURVEY LINE
	BOUNDARY LINE
	PROPERTY LINE
	ROAD RIGHT OF WAY
	WATER BODY
	BUILDING FOOTPRINT
	FENCED AREA
	UNIMPROVED LAND
	IMPROVED LAND
	WETLAND
	SHADE
	CONTOUR LINE
	SPOT ELEVATION
	SURVEY STATION
	IRON NAIL
	IRON PIPE
	IRON STAKE
	IRON BOLT
	IRON RING
	IRON CAP
	IRON PLUG
	IRON BOLT WITH NUT
	IRON BOLT WITH WASHER
	IRON BOLT WITH WASHER AND NUT
	IRON BOLT WITH WASHER AND NUT AND CAP
	IRON BOLT WITH WASHER AND NUT AND CAP AND RING
	IRON BOLT WITH WASHER AND NUT AND CAP AND RING AND PLUG



The survey was made on the 20th day of August 2013 at the office of the Surveyor, State of New York, in the County of Chatham, New York.

The work was done in accordance with the provisions of the Surveying Law of the State of New York, Chapter 100 of the Laws of 1909, as amended, and the Rules and Regulations of the Board of Surveyors, State of New York, Chapter 100 of the Laws of 1909, as amended.

There is no guarantee of title or accuracy of the survey.

Surveyed by: [Name]

Date: [Date]

Google Earth Pro  
 File Edit View Tools Add Help  
 Search  
 Get Directions History  
 sat: Hulsis near JFK

RichmondCounty,KMZ  
 marshes-dwg,KMZ  
 RichmondCounty,KMZ  
 Area 1 Re-establishment 0.19 acres  
 Area 3 Re-establishment 0.06 acres  
 Area 4 Re-establishment 0.02 acres  
 Area 5 Re-establishment 0.33 acres  
 Layers  
 here  
 Site boundary  
 0  
 1  
 2  
 3  
 Tidal Wetlands Enhancement  
 Tidal Marsh Wetland Restoration (Rehabilitat...  
 Tidal Marsh Wetland Restoration (ReEstabli...  
 Upland Slope  
 Upland Buffer Rehabilitation  
 Forested Wetland Enhancement  
 Layers  
 Area 2 Re-establishment 1.46 acres  
 Area 6 Rehabilitation 0.03 acres  
 Area 7 Rehabilitation 0.01 acres  
 Area 8 Rehabilitation 0.04  
 Area 9 Rehabilitation 0.05  
 Area 1  
 Area 2  
 Area 5  
 Area 6  
 Area 7  
 Area 8  
 Area 9  
 Temporary Places  
 Layers

Area 1  
 Area 2  
 Area 3  
 Area 4  
 Area 5  
 Area 6  
 Area 7  
 Area 8  
 Area 9

Google Earth  
 lat: 40.640518° lon: -74.182997° elev: 7 ft eye alt: 363 ft

2016 Google  
 Tour Guide



Appendix A NAN-2013-00259-EHA

