Governor's Office of Storm Recovery

ANDREW M. CUOMO
Governor

STATE ENVIRONMENTAL QUALITY REVIEW ACT
DETERMINATION OF NON-SIGNIFICANCE (NEGATIVE DECLARATION)

FREEPORT POWER PLANT NO. 2 RESILIENCY PROJECT

DATE: April 23, 2019

NAME OF ACTION: Freeport Power Plant No. 2 Resiliency Project

LOCATION: Freeport Power Plant No. 2
289 Buffalo Avenue, Village of Freeport, Nassau County, New York

SEQRA CLASSIFICATION: [ ] Type I; [X] Unlisted

REVIEW TYPE: [X] Coordinated; [ ] Uncoordinated

DETERMINATION OF SIGNIFICANCE: [X] Negative Declaration; [ ] Positive Declaration

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The Proposed Project:
The Village of Freeport (Village) applied for U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant (CDBG-DR) funding for design, purchase, and construction of resiliency upgrades at the Village of Freeport Power Plant 2 (FPP 2). Freeport Power Plant 2 is located at 289 Buffalo Avenue in the Village of Freeport on a peninsula of land adjacent to Freeport Creek and Stadium Park Canal (see Full Environmental Assessment Form (EAF), Attachment 1, Figures 1 and 2). This project consists of design and construction of long-term and permanent flood protection for the FPP 2 infrastructure. The Project consists of the following flood hazard risk reduction measures:

1. Removal of the existing chain link fences / Installation of approximately 1,300 linear feet (ft) of flood wall constructed of vinyl sheet piles (pile length varies). The flood wall bottom elevation is designed at -12.0 ft and the wall top elevation is 14.0 ft. The estimated height of sheet pile wall above existing grade ranges from 4.2 ft to 8.3 ft;
2. Construction of approximately 90 linear ft of removable section flood wall near the site's entrance consisting of an aluminum flood plank with concrete footings and removable aluminum "A"-frame mullions;
3. Installation of a new in-line check valve within the existing 36-inch, Outfall No. 1, storm water pipe;
4. Installation of a new mechanical joint plug valve at Outfall No. 2 in the discharge pipe from the existing oil-water separator in the mechanical equipment enclosure;
5. Installation of sound wall gap protection made of aluminum active flood planks at the bottom of the existing sound wall;
6. Construction of two (2) new duplex stormwater pump stations;

7. Installation of a new 250 gallon per minute spare pump in the existing pump house; and
8. Construction of a new below grade emergency sewer pump station and two (2) sewer gate valves.

The 100% design document for these eight (8) flood hazard risk reduction measures has been completed by P.W Grosser Consulting Engineers and is dated December 28, 2018 (see EAF, Attachment 4).

The implementation of these measures at FPP 2 will significantly reduce risk of facility damage due to water intrusion or inundation from sudden heavy rainstorms, extreme tidal conditions, tropical storms, and hurricanes. In addition, the risk of contamination from onsite leaking oil tanks will be significantly reduced. Further, plant facilities such as structures, machinery, gas compressors, on-site generators, control houses, and transformers will attain higher levels of service and reliability with the added flood protection.

Purpose and Need:
Freeport Electric, the Village's power utility, owns and maintains power generation and distribution infrastructure throughout the Village. Freeport Power Plant 2 is one of two power plants operated by Freeport Electric, which is the primary power generating facility for approximately 43,000 residents and 1,800 businesses in Freeport. These residents and businesses are considered the beneficiaries of the project. Freeport Power Plant 2 is capable of producing up to 87% of Freeport's total electrical power output. The implementation of the resiliency upgrades will reduce the risk of asset loss during future storm events (see EAF, Attachment 2).

The implementation of resiliency upgrades will allow FPP 2 to reduce its risk of losing fuel, power generation potential, and sustaining damage to other portions of the site during extreme weather events. The resiliency upgrades will protect the FPP 2 from flood damage so it can continue to operate and provide electricity and the Village does not suffer financial impacts from the loss or damage to the facility. The resiliency upgrades will protect the environment from the release of fuels associated with storm events. The improvements proposed in the Project will protect the FPP 2 and its operations and enable it to continue to provide electricity to the community during and after storm events. It will also reduce the risk of loss of the FPP 2 key fuel storage assets, which helps minimize potential surface and groundwater impacts from contamination.

Existing Conditions:
Superstorm Sandy impacted the community's ability to provide power to many of the residents, which prevented key community facilities and infrastructure from functioning during and after the storm. This project responds to the issue of power loss by providing improvements that would prevent damage in future extreme weather and/or extreme tidal events.

The FPP 2 is highly vulnerable to coastal surges due to its location at the southern edge of the Industrial Park peninsula. During Superstorm Sandy and Hurricane Irene, floodwaters reached the FPP 2 control center door. The large volume of water from Superstorm Sandy's surge shifted fuel tanks on their bases, despite being bolted down.

Funding:
The total project cost is estimated at $2,000,000.00. GOSR proposes to allocate funding pursuant to the U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant-Disaster Recovery (CDBG-DR) program as authorized by the Disaster Relief Appropriations Act of 2013 (Public Law 113-2, approved January 29, 2013). The NYS Housing Trust Fund Corporation (HTFC), which administers the CDBG-DR program funds on behalf of GOSR, intends to approve funding for the proposed project as described in this notice.

Environmental Considerations:
The proposed project will be completed in accordance with state and federal permits requirements including

New York State Department of Environmental Conservation (NYSDEC) Tidal Wetlands and Coastal Erosion Management, modification to existing State Pollutant Discharge Elimination System Permit to include the proposed add-alternate southeast pump station, and the United States Army Corps of Engineers (USACE) Section 404 Clean Water Act and Section 10 Rivers and Harbors Act. The permit requirements include environmental protection requirements which minimize environmental impacts. All work will be completed above the mean high-water mark. The Project site is not located within a federal or state wetlands. The project is located adjacent to a Federal Estuarine and Marine Deepwater Wetland (E1UBL), however all project activities will take place upland on developed facility property and will not occur in the estuarine environment. No NYS wetlands are adjacent to the project.

The power plant is existing and complies with the local zoning requirements and is a permitted use. The project Site is located within the landward coastal zone area of the State of New York. A letter dated January 16, 2019, was received from the New York State Department of State (NYSDOS) that provides general concurrence and no objection to funding the project. Additionally, an Essential Fish Habitat Assessment was completed to evaluate any impact from the project on the coastal fisheries. No impacts were found to occur from the project to the fisheries (see EAF, Attachment 3).

The construction of the pump and storm water outfalls will require ground disturbance. A consultation letter dated December 7, 2018 was sent to the NYS Historical Preservation Officer (SHPO). The response received provided the opinion that there will be no historic properties affected by the proposed undertaking.

A letter from the Delaware Tribe of Indians dated December 12, 2018 stated that there are no culturally significant areas within the proposed project area due to previous disturbance (see EAF, Attachment 7). Based upon these consultation responses as well as the review of the project by the Village of Freeport, there are no impacts to the tribal areas of concern or local planning districts from the proposed project.

A review of Federal and State databases (e.g., permitted and regulated sites, petroleum spill site) identified several listed sites within close proximity of the proposed project area. In addition, the FPP 2 is a registered Major Oil Storage Facility (MOSF) and a Chemical Bulk Storage (CBS) Facility. An evaluation of the sites identified in the Federal and State databases concluded that these listed sites would not have an impact on the proposed project. The detailed evaluation is provided in the EAF (Attachment 5). In 2003, PCBs were identified in the FPP 2 soils during the preparation for previous site improvements (i.e., FPP 2 expansion). The remediation consisted of the excavation of the impacted material with off-site disposal and soil capping. The excavation depths ranged from 3 feet to 10 feet above mean sea level. Approximately 24,039 cubic yards of impacted material was excavated and disposed of off-site. The Freeport Power Plant #2 holds the required air permits and falls under minor and synthetic minor emissions. Currently the facility is in compliance with permit conditions.

The flood resiliency measures will be installed adjacent to surface water features (as this Site is a peninsula) and occur within the 100-year floodplain. The construction will take place in the adjacent upland areas of the wetlands but no disturbance of the adjacent surface water body is planned. Erosion and sediment control measures are anticipated during project construction, which will mitigate any impacts to the surface water bodies. A five-step analysis for completion of work in the floodplain was performed and concluded that the project will have no impacts to the floodplain (see EAF, Attachment 9).

The project will occur within the Suffolk/Nassau County Soil Source Aquifer (SSA). The Preliminary Sole Source Aquifer review concluded no potential adverse effect on the SSA (see EAF, Attachment 8).

A review and evaluation of natural communities, endangered and threatened animals and plants was completed. This review included consultations with the United States Fish and Wildlife Service (USFWS), New York State Natural Heritage Program (NHP), and the completion of a Northern Long Eared Bat

consultation form. The conclusions of these consultations and reviews found no impacts to any natural communities or listed endangered species or threatened animal or plant as a result of the proposed Project (see EAF, Attachment 6).

Standard Requirements:
Any change to the proposed Project as described will require re-evaluation by GOSR's Certifying Officer for compliance with SEQRA and other law, regulations and policies.

This review does not address all federal, state and local requirements. Acceptance of federal funding requires recipient to comply with all federal, state and local laws. Failure to obtain all appropriate federal, state and local environmental permits and clearances may jeopardize federal funding.

Additional Mitigation Measures:

To the extent required and/or practicable, any approval of the proposed project is subject to following mitigation measures being adhered to by the grant recipient to minimize environmental impacts and create a more sustainable project:

- Construction and demolition – to the maximum extent possible, utilize local and recycled materials in construction process and recycle materials generated onsite.
- Clean diesel – implement diesel controls, cleaner fuel, and cleaner construction practices for on-road and off-road equipment used for transportation, soil movement, or other construction activities, including:
    - Strategies and technologies that reduce unnecessary idling, including auxiliary power units, the use of electric equipment, and strict enforcement of idling limits; and
    - Use of clean diesel through add-on control technologies like diesel particulate filters and diesel oxidation catalysts, repowers, or newer, cleaner equipment.
- Stormwater – utilize low impact development (LID) principles such as minimizing effective imperviousness to create site drainage, and the planting of native and non-invasive vegetation on the project site for stormwater management purposes. Other LID practices can include bio retention facilities, rain gardens, vegetated rooftops, rain barrels, and permeable pavements;
- Cost-efficient, environmentally friendly landscaping – EPA's GreenScapes program provides cost-efficient and environmentally friendly solutions for landscaping;
- Energy efficiency – energy-efficient technologies should be incorporated into the station house when possible; and
- Water conservation and efficiency – promote water conservation and efficiency through use of water efficient products (toilets, faucets, showerheads) and practices. Consider use of products with the WaterSense label where appropriate.

In addition to the factors considered above, the GOSR considered the following guidance from the State Environmental Quality Review Act and its implementing regulations and determined that the Proposed Action would:

(i) Not result in "a substantial adverse change in existing air quality, ground or surface water quality or quantity, traffic or noise levels; a substantial increase in solid waste production; a substantial increase in potential for erosion, flooding, leaching or drainage problems;" (§617.7(c)(1)(i))

(ii) Not result in "the removal or destruction of large quantities of vegetation or fauna; substantial interference with the movement of any resident or migratory fish or wildlife species; impacts on a significant habitat area; substantial adverse impacts on a threatened or endangered species of animal or plant, or the habitat of such a species; or other significant adverse impacts to natural resources;"(§617.7(c)(1)(iii))

(iii) Not result in "the impairment of the environmental characteristics of a Critical Environmental Area as designated pursuant to subdivision 617.14(g) of this Part;" (§617.7(c)(1)(iii))

(iv) Not result in "the creation of a material conflict with a community's current plans or goals as officially approved or adopted;" (§617.7(c)(1)(iv))

(v) Not result in "the impairment of the character or quality of important historical, archaeological, architectural, or aesthetic resources or of existing community or neighborhood character;" (§617.7(c)(1)(v))

(vi) Not result in "a major change in the use of either the quantity or type of energy;" (§617.7(c)(1)(vi))

(vii) Not result in "the creation of a hazard to human health;" (§617.7(c)(1)(vii))

(viii) Not result in "a substantial change in the use, or intensity of use, of land including agricultural, open space or recreational resources, or in its capacity to support existing uses;" (§617.7(c)(1)(viii))

(ix) Not result in "the encouraging or attracting of a large number of people to a place or places for more than a few days, compared to the number of people who would come to such place absent the action;" (§617.7(c)(1)(ix))

(x) Not result in "the creation of a material demand for other actions that would result in one of the above consequences;" (§617.7(c)(1)(x))

(xi) Not result in "changes in two or more elements of the environment, no one of which has a significant impact on the environment, but when considered together result in a substantial adverse impact on the environment; or (§617.7(c)(1)(xi))

Therefore, GOSR, acting as Lead Agency, and having prepared a Full Environmental Assessment Form (EAF), has determined that the proposed action will not have a significant effect on the environment and a Draft Environmental Impact Statement will not need to be prepared.

Lori A. Shirley
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Attachments:

Environmental Assessment Form (EAF) (Parts 1, 2 and 3)
Lead Agency Letter
Negative Declaration Distribution List
Attachment 1 – Project Location Map and Aerial Figure

Attachments 2 through 9 and a copy of this Notice is available at the following web address: http://www.stormrecovery.ny.gov/environmental-docs. The attachments are large and therefore, have not been mailed with the Negative Declaration.

Attachment 2 – Project Description, Purpose and Need
Attachment 3 – Coastal Zone No Effects Coastal Assessment
Attachment 4 – 100% Design Drawings
Attachment 5 – Environmental Standards Review
Attachment 6 – USFWS Consultation and IPaC List and NYSDEC NHP Consultation Letter
Attachment 7 – NYS SHPO Response and Tribal Response
Attachment 8 – Sole Source Aquifer Analysis
Attachment 9 – Summary of 5-Step Floodplain and Wetland Analysis

ATTACHMENT

FULL ENVIRONMENTAL ASSESSMENT FORM PART 1 - Project and Settings
PART 2 - Identification of Potential Project Impacts
PART 3 - Evaluation of the Magintude and Importance of Project Impacts and Determination of Significance

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: Freeport Power Plant No. 2 Resiliency Project		
Project Location (describe, and attach a general location map): Village of Freeport Power Plant No. 2, 289 Buffalo Avenue, Village of Freeport, Nassau County, NY (see Attachment 1, Figures)		
Brief Description of Proposed Action (include purpose or need): This project consists of design and construction of the long-term and permanent flood protection for the Freeport Electric Power Plant 2 infrastructure. Freeport Power Plant 2 is located in the Village of Freeport and is located on a peninsula of land adjacent to Freeport Creek and Stadium Park Canal. The project consists of design and construction of flood hazard risk reduction measures. These include 1,300 linear feet of flood wall, 90 linear feet of removable flood wall planks, new in-line check valve in Outfall No. 1, New mechanical joint plug in discharge pipe from Outfall No. 2, installation of sound wall gap flood planks in existing sound wall, construction of two new duplex storm water pump station, installation of new 250 gallon per minute spare pump in the existing pump house and construction of below grade emergency sewer pump station. This project will allow Freeport Electric to reduce its risk of losing fuel, power generation potential, and sustaining damage to other portions of the site during extreme weather events. Residents and businesses would be at reduced risk of sustaining loss of life, injury, and property damage from floating and contamination hazards which could be associated with destruction of the Plant's assets during an extreme weather or extreme tidal event. This proposed project will reduce the risk of catastrophic loss of the Plant's key fuel storage assets, which are critical in a post-disaster recovery. (see Attachment 2)		
Name of Applicant/Sponsor: Applicant - Village of Freeport - Sponsor - NYS Governor's Office of Storm Recovery	Telephone: (518) 474-0647 (Alicia Shultz, GOSR) E-Mail: Alicia.Shultz@nyshcr.org	
Address: Village of Freeport, 46 North Ocean Avenue		
City/PO: Freeport	State: New York	Zip Code: 11520
Project Contact (if not same as sponsor; give name and title/role): Al Livingston, Superintendent of Electric Uitlities	Telephone: 516-377-2252 E-Mail: alivingston@freeportelectric.com	
Address: 46 North Ocean Avenue		
City/PO: Freeport	State: New York	Zip Code: 11709
Property Owner (if not same as sponsor):	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, or Village Board of Trustees ☐Yes ☑No		
b. City, Town or Village Planning Board or Commission ☐Yes ☑No		
c. City, Town or Village Zoning Board of Appeals ☐Yes ☐No		
d. Other local agencies ☑Yes ☐No	Department of Public Works - Village, connection of below grade emergency sewer pump.	May 2019 (projected)
e. County agencies ☐Yes ☑No		
f. Regional agencies ☐Yes ☑No		
g. State agencies ☑Yes ☐No	NYSDEC, Tidal Wetlands and Coastal Erosion Management	May 2019 (projected)
h. Federal agencies ☑Yes ☐No	CDBG-DR funding, USACE Section 404 Clean Water Act and Section 10 Rivers and Harbors Act	May 2019 (projected)

i. Coastal Resources.

i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? ☑Yes ☐No

ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? ☐Yes ☑No

iii. Is the project site within a Coastal Erosion Hazard Area? ☐Yes ☑No

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐Yes ☑No

- **If Yes,** complete sections C, F and G.
- **If No,** proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ☐Yes ☑No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ☐Yes ☐No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) ☐Yes ☑No

If Yes, identify the plan(s):

_____

_____

_____

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? ☐Yes ☑No

If Yes, identify the plan(s):

_____

_____

_____

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☑ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?
Light Manufacturing, Small Factory Buildings Property Class Code 652.94

b. Is the use permitted or allowed by a special or conditional use permit? ☑ Yes ☐ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☑ No
If Yes,
i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? Freeport - 9

b. What police or other public protection forces serve the project site?
Freeport Police Department

c. Which fire protection and emergency medical services serve the project site?
Freeport Fire Department

d. What parks serve the project site?
No Parks adjacent to Site.

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Industrial - upgrades to existing plant structures for flood resiliency. No new power generation improvements.

b. a. Total acreage of the site of the proposed action? about 8 acres
b. Total acreage to be physically disturbed? less than 2 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? about 8 acres

c. Is the proposed action an expansion of an existing project or use? ☐ Yes ☑ No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☑ No
If Yes,
i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)
_____
ii. Is a cluster/conservation layout proposed? ☐ Yes ☐ No
iii. Number of lots proposed? _____
iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? ☐ Yes ☑ No
i. If No, anticipated period of construction: 12 months
ii. If Yes:
- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____year
- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

f. Does the project include new residential uses? ☐ Yes ☑ No

If Yes, show numbers of units proposed.

	One Family	Two Family	Three Family	Multiple Family (four or more)
Initial Phase	_____	_____	_____	_____
At completion of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? ☐ Yes ☑ No

If Yes,

i. Total number of structures _____

ii. Dimensions (in feet) of largest proposed structure: _____height; _____width; and _____ length

iii. Approximate extent of building space to be heated or cooled: _____ square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☐ Yes ☑ No

If Yes,

i. Purpose of the impoundment: _____

ii. If a water impoundment, the principal source of the water: ☐ Ground water ☐ Surface water streams ☐ Other specify: _____

iii. If other than water, identify the type of impounded/contained liquids and their source. _____

iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete): _____

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) ☑ Yes ☐ No

If Yes:

i .What is the purpose of the excavation or dredging? Construction of pump station and storm water outfall upgrades

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): >100 cyd
- Over what duration of time? 2 months

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.

Small excavations to install new pumps, piping or valves. All excavation are interior to facility boundaries. (Attachment 4 - 100% Design Plans)

iv. Will there be onsite dewatering or processing of excavated materials? ☐ Yes ☑ No

If yes, describe. _____

v. What is the total area to be dredged or excavated? Less than .01 acres

vi. What is the maximum area to be worked at any one time? 0.003 acres

vii. What would be the maximum depth of excavation or dredging? 15 feet

viii. Will the excavation require blasting? ☐ Yes ☑ No

ix. Summarize site reclamation goals and plan: _____

Small excavations will be backfilled with clean engineered fill and restored to existing site surface conditions.

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☐ Yes ☑ No

If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

_____

iii. Will the proposed action cause or result in disturbance to bottom sediments? ☐Yes ☐No

If Yes, describe: _____

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? ☐ Yes ☐No

If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____
- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

c. Will the proposed action use, or create a new demand for water? ☐Yes ☑No

If Yes:

i. Total anticipated water usage/demand per day: _____ gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☐Yes ☐No

If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? ☐ Yes ☐ No
- Is the project site in the existing district? ☐ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☐ No
- Do existing lines serve the project site? ☐ Yes ☐ No

iii. Will line extension within an existing district be necessary to supply the project? ☐Yes ☐No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____
- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐ Yes ☐No

If, Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? The project will not genrate liguid waste, but will upgrade exisitng sewer connections ☐ Yes ☑No

If Yes:

i. Total anticipated liquid waste generation per day: _____ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

iii. Will the proposed action use any existing public wastewater treatment facilities? ☑Yes ☐No

If Yes:

- Name of wastewater treatment plant to be used: Nassau County Cedar Creek Sewerage Treatment Fcilicity
- Name of district: Nassau County
- Does the existing wastewater treatment plant have capacity to serve the project? ☑Yes ☐No
- Is the project site in the existing district? ☑Yes ☐No
- Is expansion of the district needed? ☐Yes ☑No

- Do existing sewer lines serve the project site? ☑ Yes ☐ No
- Will a line extension within an existing district be necessary to serve the project? ☐ Yes ☑ No

  If Yes:
  - Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? ☐ Yes ☑ No

If Yes:
- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

_____

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? ☐ Yes ☑ No

Flood resiliency measures will not increase current foot print of impervious surfaces.

If Yes:

i. How much impervious surface will the project create in relation to total size of project parcel?

_____ Square feet or _____ acres (impervious surface)

_____ Square feet or _____ acres (parcel size)

ii. Describe types of new point sources. _____

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

_____

- If to surface waters, identify receiving water bodies or wetlands: _____
- Will stormwater runoff flow to adjacent properties? ☐ Yes ☐ No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? ☐ Yes ☐ No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? ☐ Yes ☑ No

If Yes, identify:

i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

_____

ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

_____

iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

_____

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? ☐ Yes ☑ No

If Yes:

i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) ☐ Yes ☐ No

ii. In addition to emissions as calculated in the application, the project will generate:
- _____Tons/year (short tons) of Carbon Dioxide (CO_2)
- _____Tons/year (short tons) of Nitrous Oxide (N_2O)
- _____Tons/year (short tons) of Perfluorocarbons (PFCs)
- _____Tons/year (short tons) of Sulfur Hexafluoride (SF_6)
- _____Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)
- _____Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? ☐Yes ☑No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? ☐Yes ☑No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):

_____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? ☐Yes ☑No

If Yes:

i. When is the peak traffic expected (Check all that apply): ☐ Morning ☐ Evening ☐Weekend ☐ Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? ☐Yes ☐No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe:

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ☐Yes ☐No

vii Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? ☐Yes ☐No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? ☐Yes ☐No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ☐Yes ☑No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other):

iii. Will the proposed action require a new, or an upgrade, to an existing substation? ☐Yes ☐No

l. Hours of operation. Answer all items which apply.

i. During Construction:

- Monday - Friday: 7am - 7pm
- Saturday: 7am - 7pm as needed
- Sunday: 7am - 7pm as needed
- Holidays: 7am - 7pm as needed

ii. During Operations:

- Monday - Friday: none
- Saturday: _____
- Sunday: _____
- Holidays: _____

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? ☑ Yes ☐ No

If yes:

i. Provide details including sources, time of day and duration:

Installation of sheet pilings may increase ambient noise levels. However, there are no residential properties near construction areas. Noise levels during construction will be of short duration. No increase in noise level will occur after construction from flood resiliency measures.

ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? ☐ Yes ☑ No

Describe: _____

n. Will the proposed action have outdoor lighting? ☐ Yes ☑ No

If yes:

i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

_____

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☐ Yes ☑ No

Describe: _____

o. Does the proposed action have the potential to produce odors for more than one hour per day? ☐ Yes ☑ No

If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☐ Yes ☑ No

If Yes:

i. Product(s) to be stored _____

ii. Volume(s) _____ per unit time _____ (e.g., month, year)

iii. Generally, describe the proposed storage facilities: _____

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☐ Yes ☑ No

If Yes:

i. Describe proposed treatment(s):

_____

ii. Will the proposed action use Integrated Pest Management Practices? ☐ Yes ☐ No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☑ Yes ☐ No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: < 1000 tons per 12 month (unit of time)
- Operation : _____ tons per _____ (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction: Recycling of construction debris will be encouraged by the conractor
- Operation: No waste will be generated by operation of flood resiliency measures

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction: Commercial Landfills
- Operation: No waste will be generated by operation of flood resiliency measures

s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☐ No

If Yes: provide name and location of facility: _____

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

☑ Urban ☑ Industrial ☑ Commercial ☐ Residential (suburban) ☐ Rural (non-farm)
☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____

ii. If mix of uses, generally describe:

Surrounding properties are Municipal Garages and/or Factories

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	about 8	about 8	0
• Forested	0	0	0
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	0	0	0
• Agricultural (includes active orchards, field, greenhouse etc.)	0	0	0
• Surface water features (lakes, ponds, streams, rivers, etc.)	0	0	0
• Wetlands (freshwater or tidal)	0	0	0
• Non-vegetated (bare rock, earth or fill)	0	0	0
• Other Describe: _____			

c. Is the project site presently used by members of the community for public recreation? ☐ Yes ☑ No

i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? ☐ Yes ☑ No

If Yes,

i. Identify Facilities:

_____

_____

e. Does the project site contain an existing dam? ☐ Yes ☑ No

If Yes:

i. Dimensions of the dam and impoundment:

- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____

iii. Provide date and summarize results of last inspection:

_____

_____

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Has the facility been formally closed? ☐ Yes ☐ No

- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

_____

_____

iii. Describe any development constraints due to the prior solid waste activities: _____

_____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? ☑ Yes ☐ No

If Yes:

i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

Various waste streams associated with operations of the power plant. The current flood resiliency project will not increase/decrease waste generation. Freeport Power Plant No. 2 is listed as a Major Storage Facility and Chemical Bulk Storage Facility (see Attachment 5).

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? ☐ Yes ☑ No

If Yes:

i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: ☐ Yes ☐ No

☐ Yes – Spills Incidents database Provide DEC ID number(s): _____

☐ Yes – Environmental Site Remediation database Provide DEC ID number(s): _____

☐ Neither database

ii. If site has been subject of RCRA corrective activities, describe control measures: _____

_____

_____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ☑ Yes ☐ No

If yes, provide DEC ID number(s): 130052, 130110

iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

See Attachment 5. These remediation Site will have no impact on the flood resiliency measures, nor will these Sites be impacted by the flood resiliency measures.

v. Is the project site subject to an institutional control limiting property uses? ☐ Yes ☑ No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? ☐ Yes ☑ No
- Explain: _____

(See Attachment 5)

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? <15 feet feet

b. Are there bedrock outcroppings on the project site? ☐ Yes ☑ No
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____%

c. Predominant soil type(s) present on project site: Urban Land 100 %
_____ %
_____ %

d. What is the average depth to the water table on the project site? Average: > 10 feet feet

e. Drainage status of project site soils:
☑ Well Drained: 100 % of site
☐ Moderately Well Drained: _____% of site
☐ Poorly Drained _____% of site

f. Approximate proportion of proposed action site with slopes:
☑ 0-10%: 99 % of site
☐ 10-15%: _____% of site
☑ 15% or greater: 1 % of site

g. Are there any unique geologic features on the project site? ☐ Yes ☑ No
If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☑ Yes ☐ No

ii. Do any wetlands or other waterbodies adjoin the project site? ☑ Yes ☐ No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☑ Yes ☐ No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name 885-132 Classification SC
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name Tidal Wetlands, Federal Waters, Federal Waters,... Approximate Size _____
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☑ Yes ☐ No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____
Name - Pollutants - Uses:Middle Bay – Pathogens – Shellfishing

i. Is the project site in a designated Floodway? ☐ Yes ☑ No

j. Is the project site in the 100-year Floodplain? ☑ Yes ☐ No

k. Is the project site in the 500-year Floodplain? ☐ Yes ☑ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☑ Yes ☐ No
If Yes:

i. Name of aquifer: Sole Source Aquifer Names:Nassau-Suffolk SSA See Attachment 8, no Impact to Sole Source Aquifer

m. Identify the predominant wildlife species that occupy or use the project site: _____

_____ _____ _____

_____ _____ _____

n. Does the project site contain a designated significant natural community? (see Attachment 6) ☑ Yes ☐ No

If Yes:

i. Describe the habitat/community (composition, function, and basis for designation): _____

Low Salt Marsh, High Salt Marsh, Salt Panne

ii. Source(s) of description or evaluation: _____

iii. Extent of community/habitat:

- Currently: 168.0, 7242.0, 292.0 acres
- Following completion of project as proposed: _____ acres
- Gain or loss (indicate + or -): _____ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☑ Yes ☐ No

If Yes:

i. Species and listing (endangered or threatened): _____

Short-eared Owl and Northern Long Eared Bat

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐ Yes ☑ No

If Yes:

i. Species and listing: _____

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☑ Yes ☐ No

If yes, give a brief description of how the proposed action may affect that use: _____

off shore recreational fishing, flood resiliency project will not interfere with fishing.

E.3. Designated Public Resources On or Near Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐ Yes ☑ No

If Yes, provide county plus district name/number: _____

b. Are agricultural lands consisting of highly productive soils present? ☐ Yes ☑ No

i. If Yes: acreage(s) on project site? _____

ii. Source(s) of soil rating(s): _____

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐ Yes ☑ No

If Yes:

i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature

ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☐ Yes ☑ No

If Yes:

i. CEA name: _____

ii. Basis for designation: _____

iii. Designating agency and date: _____

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? ☑ Yes ☐ No

If Yes:

i. Nature of historic/archaeological resource: ☐ Archaeological Site ☐ Historic Building or District

ii. Name: Jones Beach State Park, Causeways and Parkways System

iii. Brief description of attributes on which listing is based:

The Park is not contiguous to the project and is across the canal.. NYSHPO has issued a no historic properties affects opinion (see Attachment 7)

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? ☑ Yes ☐ No (see Attachment 7)

g. Have additional archaeological or historic site(s) or resources been identified on the project site? ☐ Yes ☑ No

If Yes:

i. Describe possible resource(s): _____

ii. Basis for identification: _____

h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? ☐ Yes ☑ No

If Yes:

i. Identify resource: _____

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____

iii. Distance between project and resource: _____ miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? ☐ Yes ☑ No

If Yes:

i. Identify the name of the river and its designation: _____

ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? ☐ Yes ☐ No

F. Additional Information

Attach any additional information which may be needed to clarify your project. (see Attachments 1 thorugh 9).

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

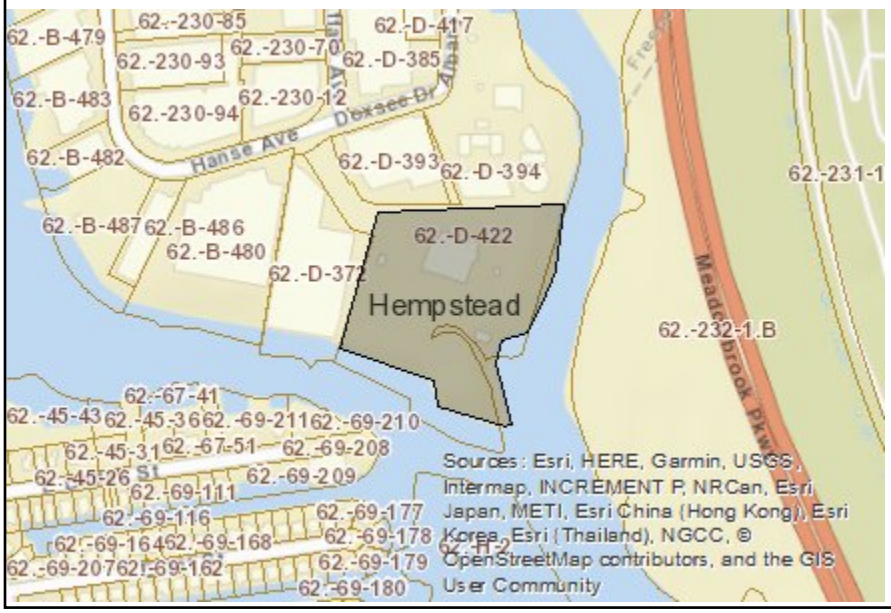
Applicant/Sponsor Name Alicia Shultz, GOSR (sponsor) Date 04/22/2019

Signature Alicia Shultz Title Senior Environmental Scientist

PRINT FORM

EAF Mapper Summary Report

Monday, March 04, 2019 10:48 AM



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.

B.i.i [Coastal or Waterfront Area]	Yes see Attachment 3 no coastal effects
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook. see Attachment 5
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook. see Attachment 5
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook. see Attachment 5
E.1.h.iii [Within 2,000' of DEC Remediation Site]	Yes see Attachment 5, project has no effects on remediation Sites
E.1.h.iii [Within 2,000' of DEC Remediation Site - DEC ID]	130052, 130110 see Attachment 5, project has no effects on remediation Sites
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	Yes No impacts to surface water features
E.2.h.ii [Surface Water Features]	Yes No impacts to surface water feature
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.iv [Surface Water Features - Stream Name]	885-132
E.2.h.iv [Surface Water Features - Stream Classification]	SC
E.2.h.iv [Surface Water Features - Wetlands Name]	Tidal Wetlands, Federal Waters
E.2.h.v [Impaired Water Bodies]	Yes
E.2.h.v [Impaired Water Bodies - Name and Basis for Listing]	Name - Pollutants - Uses:Middle Bay – Pathogens – Shellfishing

E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	Yes
E.2.k. [500 Year Floodplain]	No
E.2.l. [Aquifers]	Yes see Attachment 8 , no impacts to SSA from project
E.2.l. [Aquifer Names]	Sole Source Aquifer Names:Nassau-Suffolk SSA
E.2.n. [Natural Communities]	Yes
E.2.n.i [Natural Communities - Name]	Low Salt Marsh, High Salt Marsh, Salt Panne
E.2.n.i [Natural Communities - Acres]	168.0, 7242.0, 292.0
E.2.o. [Endangered or Threatened Species]	Yes see Attachment 6, no affects on letters
E.2.o. [Endangered or Threatened Species - Name]	Short-eared Owl
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Yes - Digital mapping data for archaeological site boundaries are not available. Refer to EAF Workbook. see Attachment 7, no affects letter
E.3.e.ii [National or State Register of Historic Places or State Eligible Sites - Name]	Jones Beach State Park, Causeways and Parkways System
E.3.f. [Archeological Sites]	Yes see Attachment 7, no affects letter
E.3.i. [Designated River Corridor]	No

Full Environmental Assessment Form
Part 2 - Identification of Potential Project Impacts

Part 2 is to be completed by the lead agency. Part 2 is designed to help the lead agency inventory all potential resources that could be affected by a proposed project or action. We recognize that the lead agency's reviewer(s) will not necessarily be environmental professionals. So, the questions are designed to walk a reviewer through the assessment process by providing a series of questions that can be answered using the information found in Part 1. To further assist the lead agency in completing Part 2, the form identifies the most relevant questions in Part 1 that will provide the information needed to answer the Part 2 question. When Part 2 is completed, the lead agency will have identified the relevant environmental areas that may be impacted by the proposed activity.

If the lead agency is a state agency **and** the action is in any Coastal Area, complete the Coastal Assessment Form before proceeding with this assessment.

Tips for completing Part 2:

- Review all of the information provided in Part 1.
- Review any application, maps, supporting materials and the Full EAF Workbook.
- Answer each of the 18 questions in Part 2.
- If you answer "**Yes"** to a numbered question, please complete all the questions that follow in that section.
- If you answer "**No"** to a numbered question, move on to the next numbered question.
- Check appropriate column to indicate the anticipated size of the impact.
- Proposed projects that would exceed a numeric threshold contained in a question should result in the reviewing agency checking the box "Moderate to large impact may occur."
- The reviewer is not expected to be an expert in environmental analysis.
- If you are not sure or undecided about the size of an impact, it may help to review the sub-questions for the general question and consult the workbook.
- When answering a question consider all components of the proposed activity, that is, the "whole action".
- Consider the possibility for long-term and cumulative impacts as well as direct impacts.
- Answer the question in a reasonable manner considering the scale and context of the project.

1. Impact on Land
Proposed action may involve construction on, or physical alteration of, the land surface of the proposed site. (See Part 1. D.1)
If "Yes", answer questions a - j. If "No", move on to Section 2.

☐ NO ☑ YES

See EAF, Attachment 3, Coastal Zone No Effect and Coastal Assessment	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may involve construction on land where depth to water table is less than 3 feet.	E2d	☑	☐
b. The proposed action may involve construction on slopes of 15% or greater.	E2f	☑	☐
c. The proposed action may involve construction on land where bedrock is exposed, or generally within 5 feet of existing ground surface.	E2a	☑	☐
d. The proposed action may involve the excavation and removal of more than 1,000 tons of natural material.	D2a	☑	☐
e. The proposed action may involve construction that continues for more than one year or in multiple phases.	D1e	☑	☐
f. The proposed action may result in increased erosion, whether from physical disturbance or vegetation removal (including from treatment by herbicides).	D2e, D2q	☑	☐
g. The proposed action is, or may be, located within a Coastal Erosion hazard area.	B1i	☑	☐
h. Other impacts: _____		☐	☐

2. Impact on Geological Features

The proposed action may result in the modification or destruction of, or inhibit access to, any unique or unusual land forms on the site (e.g., cliffs, dunes, minerals, fossils, caves). (See Part 1. E.2.g)

☑ NO ☐ YES

If "Yes", answer questions a - c. If "No", move on to Section 3.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Identify the specific land form(s) attached: _____ _____	E2g	☐	☐
b. The proposed action may affect or is adjacent to a geological feature listed as a registered National Natural Landmark. Specific feature: _____	E3c	☐	☐
c. Other impacts: _____ _____		☐	☐

3. Impacts on Surface Water

The proposed action may affect one or more wetlands or other surface water bodies (e.g., streams, rivers, ponds or lakes). (See Part 1. D.2, E.2.h)

☑ NO ☐ YES

If "Yes", answer questions a - l. If "No", move on to Section 4.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may create a new water body.	D2b, D1h	☐	☐
b. The proposed action may result in an increase or decrease of over 10% or more than a 10 acre increase or decrease in the surface area of any body of water.	D2b	☐	☐
c. The proposed action may involve dredging more than 100 cubic yards of material from a wetland or water body.	D2a	☐	☐
d. The proposed action may involve construction within or adjoining a freshwater or tidal wetland, or in the bed or banks of any other water body.	E2h	☐	☐
e. The proposed action may create turbidity in a waterbody, either from upland erosion, runoff or by disturbing bottom sediments.	D2a, D2h	☐	☐
f. The proposed action may include construction of one or more intake(s) for withdrawal of water from surface water.	D2c	☐	☐
g. The proposed action may include construction of one or more outfall(s) for discharge of wastewater to surface water(s).	D2d	☐	☐
h. The proposed action may cause soil erosion, or otherwise create a source of stormwater discharge that may lead to siltation or other degradation of receiving water bodies.	D2e	☐	☐
i. The proposed action may affect the water quality of any water bodies within or downstream of the site of the proposed action.	E2h	☐	☐
j. The proposed action may involve the application of pesticides or herbicides in or around any water body.	D2q, E2h	☐	☐
k. The proposed action may require the construction of new, or expansion of existing, wastewater treatment facilities.	D1a, D2d	☐	☐

l. Other impacts: _____ _____		☐	☐

4. Impact on groundwater

The proposed action may result in new or additional use of ground water, or may have the potential to introduce contaminants to ground water or an aquifer. (See Part 1. D.2.a, D.2.c, D.2.d, D.2.p, D.2.q, D.2.t)

☑ NO ☐ YES

If "Yes", answer questions a - h. If "No", move on to Section 5.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may require new water supply wells, or create additional demand on supplies from existing water supply wells.	D2c	☐	☐
b. Water supply demand from the proposed action may exceed safe and sustainable withdrawal capacity rate of the local supply or aquifer. Cite Source: _____	D2c	☐	☐
c. The proposed action may allow or result in residential uses in areas without water and sewer services.	D1a, D2c	☐	☐
d. The proposed action may include or require wastewater discharged to groundwater.	D2d, E2l	☐	☐
e. The proposed action may result in the construction of water supply wells in locations where groundwater is, or is suspected to be, contaminated.	D2c, E1f, E1g, E1h	☐	☐
f. The proposed action may require the bulk storage of petroleum or chemical products over ground water or an aquifer.	D2p, E2l	☐	☐
g. The proposed action may involve the commercial application of pesticides within 100 feet of potable drinking water or irrigation sources.	E2h, D2q, E2l, D2c	☐	☐
h. Other impacts: _____ _____		☐	☐

5. Impact on Flooding

The proposed action may result in development on lands subject to flooding. (See Part 1. E.2)

☐ NO ☑ YES

If "Yes", answer questions a - g. If "No", move on to Section 6.

See EAF Attachment 9, minimal impact to wetlands or waterbodies	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in development in a designated floodway.	E2i	☑	☐
b. The proposed action may result in development within a 100 year floodplain.	E2j	☑	☐
c. The proposed action may result in development within a 500 year floodplain.	E2k	☑	☐
d. The proposed action may result in, or require, modification of existing drainage patterns.	D2b, D2e	☑	☐
e. The proposed action may change flood water flows that contribute to flooding.	D2b, E2i, E2j, E2k	☑	☐
f. If there is a dam located on the site of the proposed action, is the dam in need of repair, or upgrade?	E1e	☑	☐

g. Other impacts: _____ _____		☐	☐

6. Impacts on Air

The proposed action may include a state regulated air emission source. (See Part 1. D.2.f., D.2.h, D.2.g) ☑ NO ☐ YES

If "Yes", answer questions a - f. If "No", move on to Section 7.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. If the proposed action requires federal or state air emission permits, the action may also emit one or more greenhouse gases at or above the following levels:			
i. More than 1000 tons/year of carbon dioxide (CO_2)	D2g	☐	☐
ii. More than 3.5 tons/year of nitrous oxide (N_2O)	D2g	☐	☐
iii. More than 1000 tons/year of carbon equivalent of perfluorocarbons (PFCs)	D2g	☐	☐
iv. More than .045 tons/year of sulfur hexafluoride (SF_6)	D2g	☐	☐
v. More than 1000 tons/year of carbon dioxide equivalent of hydrochloroflourocarbons (HFCs) emissions	D2g	☐	☐
vi. 43 tons/year or more of methane	D2h	☐	☐
b. The proposed action may generate 10 tons/year or more of any one designated hazardous air pollutant, or 25 tons/year or more of any combination of such hazardous air pollutants.	D2g	☐	☐
c. The proposed action may require a state air registration, or may produce an emissions rate of total contaminants that may exceed 5 lbs. per hour, or may include a heat source capable of producing more than 10 million BTU's per hour.	D2f, D2g	☐	☐
d. The proposed action may reach 50% of any of the thresholds in "a" through "c", above.	D2g	☐	☐
e. The proposed action may result in the combustion or thermal treatment of more than 1 ton of refuse per hour.	D2s	☐	☐
f. Other impacts: _____ _____		☐	☐

7. Impact on Plants and Animals

The proposed action may result in a loss of flora or fauna. (See Part 1. E.2. m.-q.) ☐ NO ☑ YES

If "Yes", answer questions a - j. If "No", move on to Section 8.

See EAF Attachment 6, no impacts on plants and animals	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may cause reduction in population or loss of individuals of any threatened or endangered species, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2o	☑	☐
b. The proposed action may result in a reduction or degradation of any habitat used by any rare, threatened or endangered species, as listed by New York State or the federal government.	E2o	☑	☐
c. The proposed action may cause reduction in population, or loss of individuals, of any species of special concern or conservation need, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2p	☑	☐
d. The proposed action may result in a reduction or degradation of any habitat used by any species of special concern and conservation need, as listed by New York State or the Federal government.	E2p	☑	☐

e. The proposed action may diminish the capacity of a registered National Natural Landmark to support the biological community it was established to protect.	E3c	☑	☐
f. The proposed action may result in the removal of, or ground disturbance in, any portion of a designated significant natural community. Source: _____	E2n	☑	☐
g. The proposed action may substantially interfere with nesting/breeding, foraging, or over-wintering habitat for the predominant species that occupy or use the project site.	E2m	☑	☐
h. The proposed action requires the conversion of more than 10 acres of forest, grassland or any other regionally or locally important habitat. Habitat type & information source: _____ _____	E1b	☑	☐
i. Proposed action (commercial, industrial or recreational projects, only) involves use of herbicides or pesticides.	D2q	☑	☐
j. Other impacts: _____ _____		☐	☐

8. Impact on Agricultural Resources

The proposed action may impact agricultural resources. (See Part 1. E.3.a. and b.) ☑ NO ☐ YES

If "Yes", answer questions a - h. If "No", move on to Section 9.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System.	E2c, E3b	☐	☐
b. The proposed action may sever, cross or otherwise limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc).	E1a, Elb	☐	☐
c. The proposed action may result in the excavation or compaction of the soil profile of active agricultural land.	E3b	☐	☐
d. The proposed action may irreversibly convert agricultural land to non-agricultural uses, either more than 2.5 acres if located in an Agricultural District, or more than 10 acres if not within an Agricultural District.	E1b, E3a	☐	☐
e. The proposed action may disrupt or prevent installation of an agricultural land management system.	El a, E1b	☐	☐
f. The proposed action may result, directly or indirectly, in increased development potential or pressure on farmland.	C2c, C3, D2c, D2d	☐	☐
g. The proposed project is not consistent with the adopted municipal Farmland Protection Plan.	C2c	☐	☐
h. Other impacts: _____		☐	☐

9. Impact on Aesthetic Resources

The land use of the proposed action are obviously different from, or are in sharp contrast to, current land use patterns between the proposed project and a scenic or aesthetic resource. (Part 1. E.1.a, E.1.b, E.3.h.)

☑ NO ☐ YES

If "Yes", answer questions a - g. If "No", go to Section 10.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Proposed action may be visible from any officially designated federal, state, or local scenic or aesthetic resource.	E3h	☐	☐
b. The proposed action may result in the obstruction, elimination or significant screening of one or more officially designated scenic views.	E3h, C2b	☐	☐
c. The proposed action may be visible from publicly accessible vantage points: i. Seasonally (e.g., screened by summer foliage, but visible during other seasons) ii. Year round	E3h	☐ ☐	☐ ☐
d. The situation or activity in which viewers are engaged while viewing the proposed action is: i. Routine travel by residents, including travel to and from work ii. Recreational or tourism based activities	E3h E2q, E1c	☐ ☐	☐ ☐
e. The proposed action may cause a diminishment of the public enjoyment and appreciation of the designated aesthetic resource.	E3h	☐	☐
f. There are similar projects visible within the following distance of the proposed project: 0-1/2 mile ½ -3 mile 3-5 mile 5+ mile	D1a, E1a, D1f, D1g	☐	☐
g. Other impacts: _____ _____		☐	☐

10. Impact on Historic and Archeological Resources

The proposed action may occur in or adjacent to a historic or archaeological resource. (Part 1. E.3.e, f. and g.)

☐ NO ☑ YES

If "Yes", answer questions a - e. If "No", go to Section 11.

See EAF, Attachment 7, no historic properties affected, no objections from Tribes	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may occur wholly or partially within, or substantially contiguous to, any buildings, archaeological site or district which is listed on the National or State Register of Historical Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places.	E3e	☑	☐
b. The proposed action may occur wholly or partially within, or substantially contiguous to, an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory.	E3f	☑	☐
c. The proposed action may occur wholly or partially within, or substantially contiguous to, an archaeological site not included on the NY SHPO inventory. Source: _____	E3g	☑	☐

d. Other impacts: _____		☐	☐
e. If any of the above (a-d) are answered "Moderate to large impact may occur", continue with the following questions to help support conclusions in Part 3:			
i. The proposed action may result in the destruction or alteration of all or part of the site or property.	E3e, E3g, E3f	☐	☐
ii. The proposed action may result in the alteration of the property's setting or integrity.	E3e, E3f, E3g, E1a, E1b	☐	☐
iii. The proposed action may result in the introduction of visual elements which are out of character with the site or property, or may alter its setting.	E3e, E3f, E3g, E3h, C2, C3	☐	☐

11. Impact on Open Space and Recreation

The proposed action may result in a loss of recreational opportunities or a reduction of an open space resource as designated in any adopted municipal open space plan.
(See Part 1. C.2.c, E.1.c., E.2.q.)
If "Yes", answer questions a - e. If "No", go to Section 12.

☐ NO ☑ YES

See EAF, Attachment 3, no effects on Esential Fish Habitat, no effects on local fishing.	**Relevant Part I Question(s)**	**No, or small impact may occur**	**Moderate to large impact may occur**
a. The proposed action may result in an impairment of natural functions, or "ecosystem services", provided by an undeveloped area, including but not limited to stormwater storage, nutrient cycling, wildlife habitat.	D2e, E1b E2h, E2m, E2o, E2n, E2p	☑	☐
b. The proposed action may result in the loss of a current or future recreational resource.	C2a, E1c, C2c, E2q	☑	☐
c. The proposed action may eliminate open space or recreational resource in an area with few such resources.	C2a, C2c E1c, E2q	☑	☐
d. The proposed action may result in loss of an area now used informally by the community as an open space resource.	C2c, E1c	☑	☐
e. Other impacts: _____		☐	☐

12. Impact on Critical Environmental Areas

The proposed action may be located within or adjacent to a critical environmental area (CEA). (See Part 1. E.3.d)
If "Yes", answer questions a - c. If "No", go to Section 13.

☑ NO ☐ YES

	Relevant Part I Question(s)	**No, or small impact may occur**	**Moderate to large impact may occur**
a. The proposed action may result in a reduction in the quantity of the resource or characteristic which was the basis for designation of the CEA.	E3d	☐	☐
b. The proposed action may result in a reduction in the quality of the resource or characteristic which was the basis for designation of the CEA.	E3d	☐	☐
c. Other impacts: _____		☐	☐

13. Impact on Transportation

The proposed action may result in a change to existing transportation systems. ☑ NO ☐ YES
(See Part 1. D.2.j)
If "Yes", answer questions a - f. If "No", go to Section 14.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Projected traffic increase may exceed capacity of existing road network.	D2j	☐	☐
b. The proposed action may result in the construction of paved parking area for 500 or more vehicles.	D2j	☐	☐
c. The proposed action will degrade existing transit access.	D2j	☐	☐
d. The proposed action will degrade existing pedestrian or bicycle accommodations.	D2j	☐	☐
e. The proposed action may alter the present pattern of movement of people or goods.	D2j	☐	☐
f. Other impacts: _____		☐	☐

14. Impact on Energy

The proposed action may cause an increase in the use of any form of energy. ☑ NO ☐ YES
(See Part 1. D.2.k)
If "Yes", answer questions a - e. If "No", go to Section 15.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action will require a new, or an upgrade to an existing, substation.	D2k	☐	☐
b. The proposed action will require the creation or extension of an energy transmission or supply system to serve more than 50 single or two-family residences or to serve a commercial or industrial use.	D1f, D1q, D2k	☐	☐
c. The proposed action may utilize more than 2,500 MWhrs per year of electricity.	D2k	☐	☐
d. The proposed action may involve heating and/or cooling of more than 100,000 square feet of building area when completed.	D1g	☐	☐
e. Other Impacts: _____			

15. Impact on Noise, Odor, and Light

The proposed action may result in an increase in noise, odors, or outdoor lighting. ☐ NO ☑ YES
(See Part 1. D.2.m., n., and o.)
If "Yes", answer questions a - f. If "No", go to Section 16.

Short term increase in noise from consruction activities, primarly sheet pile installation. No noise impact after construction.	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may produce sound above noise levels established by local regulation.	D2m	☑	☐
b. The proposed action may result in blasting within 1,500 feet of any residence, hospital, school, licensed day care center, or nursing home.	D2m, E1d	☑	☐
c. The proposed action may result in routine odors for more than one hour per day.	D2o	☑	☐

d. The proposed action may result in light shining onto adjoining properties.	D2n	☑	☐
e. The proposed action may result in lighting creating sky-glow brighter than existing area conditions.	D2n, E1a	☑	☐
f. Other impacts: _____ _____		☐	☐

16. Impact on Human Health

The proposed action may have an impact on human health from exposure to new or existing sources of contaminants. (See Part 1.D.2.q., E.1. d. f. g. and h.) ☐ NO ☑ YES

If "Yes", answer questions a - m. If "No", go to Section 17.

See EAF Attachment 5, Project will not generate waste, other than construction debris.	**Relevant Part I Question(s)**	**No,or small impact may cccur**	**Moderate to large impact may occur**
a. The proposed action is located within 1500 feet of a school, hospital, licensed day care center, group home, nursing home or retirement community.	E1d	☑	☐
b. The site of the proposed action is currently undergoing remediation.	E1g, E1h	☑	☐
c. There is a completed emergency spill remediation, or a completed environmental site remediation on, or adjacent to, the site of the proposed action.	E1g, E1h	☑	☐
d. The site of the action is subject to an institutional control limiting the use of the property (e.g., easement or deed restriction).	E1g, E1h	☑	☐
e. The proposed action may affect institutional control measures that were put in place to ensure that the site remains protective of the environment and human health.	E1g, E1h	☑	☐
f. The proposed action has adequate control measures in place to ensure that future generation, treatment and/or disposal of hazardous wastes will be protective of the environment and human health.	D2t	☑	☐
g. The proposed action involves construction or modification of a solid waste management facility.	D2q, E1f	☑	☐
h. The proposed action may result in the unearthing of solid or hazardous waste.	D2q, E1f	☑	☐
i. The proposed action may result in an increase in the rate of disposal, or processing, of solid waste.	D2r, D2s	☑	☐
j. The proposed action may result in excavation or other disturbance within 2000 feet of a site used for the disposal of solid or hazardous waste.	E1f, E1g E1h	☑	☐
k. The proposed action may result in the migration of explosive gases from a landfill site to adjacent off site structures.	E1f, E1g	☑	☐
l. The proposed action may result in the release of contaminated leachate from the project site.	D2s, E1f, D2r	☑	☐
m. Other impacts: _____ _____		☐	☐

17. Consistency with Community Plans

The proposed action is not consistent with adopted land use plans. ☑ NO ☐ YES
(See Part 1. C.1, C.2. and C.3.)
If "Yes", answer questions a - h. If "No", go to Section 18.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action's land use components may be different from, or in sharp contrast to, current surrounding land use pattern(s).	C2, C3, D1a E1a, E1b	☐	☐
b. The proposed action will cause the permanent population of the city, town or village in which the project is located to grow by more than 5%.	C2	☐	☐
c. The proposed action is inconsistent with local land use plans or zoning regulations.	C2, C2, C3	☐	☐
d. The proposed action is inconsistent with any County plans, or other regional land use plans.	C2, C2	☐	☐
e. The proposed action may cause a change in the density of development that is not supported by existing infrastructure or is distant from existing infrastructure.	C3, D1c, D1d, D1f, D1d, Elb	☐	☐
f. The proposed action is located in an area characterized by low density development that will require new or expanded public infrastructure.	C4, D2c, D2d D2j	☐	☐
g. The proposed action may induce secondary development impacts (e.g., residential or commercial development not included in the proposed action)	C2a	☐	☐
h. Other: _____ _____		☐	☐

18. Consistency with Community Character

The proposed project is inconsistent with the existing community character. ☑ NO ☐ YES
(See Part 1. C.2, C.3, D.2, E.3)
If "Yes", answer questions a - g. If "No", proceed to Part 3.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may replace or eliminate existing facilities, structures, or areas of historic importance to the community.	E3e, E3f, E3g	☐	☐
b. The proposed action may create a demand for additional community services (e.g. schools, police and fire)	C4	☐	☐
c. The proposed action may displace affordable or low-income housing in an area where there is a shortage of such housing.	C2, C3, D1f D1g, E1a	☐	☐
d. The proposed action may interfere with the use or enjoyment of officially recognized or designated public resources.	C2, E3	☐	☐
e. The proposed action is inconsistent with the predominant architectural scale and character.	C2, C3	☐	☐
f. Proposed action is inconsistent with the character of the existing natural landscape.	C2, C3 E1a, E1b E2g, E2h	☐	☐
g. Other impacts: _____ _____		☐	☐

PRINT FULL FORM

Full Environmental Assessment Form
Part 3 - Evaluation of the Magnitude and Importance of Project Impacts
and
Determination of Significance

Part 3 provides the reasons in support of the determination of significance. The lead agency must complete Part 3 for every question in Part 2 where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.

Based on the analysis in Part 3, the lead agency must decide whether to require an environmental impact statement to further assess the proposed action or whether available information is sufficient for the lead agency to conclude that the proposed action will not have a significant adverse environmental impact. By completing the certification on the next page, the lead agency can complete its determination of significance.

Reasons Supporting This Determination:
To complete this section:

- Identify the impact based on the Part 2 responses and describe its magnitude. Magnitude considers factors such as severity, size or extent of an impact.
- Assess the importance of the impact. Importance relates to the geographic scope, duration, probability of the impact occurring, number of people affected by the impact and any additional environmental consequences if the impact were to occur.
- The assessment should take into consideration any design element or project changes.
- Repeat this process for each Part 2 question where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.
- Provide the reason(s) why the impact may, or will not, result in a significant adverse environmental impact
- For Conditional Negative Declarations identify the specific condition(s) imposed that will modify the proposed action so that no significant adverse environmental impacts will result.
- Attach additional sheets, as needed.

See EAF Attachments 1 through 9 for additional information and supporting documentation for the determination of no significant impacts on the environment from this project.

Determination of Significance - Type 1 and Unlisted Actions

SEQR Status: ☐ Type 1 ☑ Unlisted

Identify portions of EAF completed for this Project: ☑ Part 1 ☑ Part 2 ☑ Part 3

Upon review of the information recorded on this EAF, as noted, plus this additional support information
Attachments 1 through 9

and considering both the magnitude and importance of each identified potential impact, it is the conclusion of the Governor's Office of Storm Recovery (GOSR) as lead agency that:

☑ A. This project will result in no significant adverse impacts on the environment, and, therefore, an environmental impact statement need not be prepared. Accordingly, this negative declaration is issued.

☐ B. Although this project could have a significant adverse impact on the environment, that impact will be avoided or substantially mitigated because of the following conditions which will be required by the lead agency:

There will, therefore, be no significant adverse impacts from the project as conditioned, and, therefore, this conditioned negative declaration is issued. A conditioned negative declaration may be used only for UNLISTED actions (see 6 NYCRR 617.7(d)).

☐ C. This Project may result in one or more significant adverse impacts on the environment, and an environmental impact statement must be prepared to further assess the impact(s) and possible mitigation and to explore alternatives to avoid or reduce those impacts. Accordingly, this positive declaration is issued.

Name of Action: Freeport Power Plant No.2 Resiliency Project

Name of Lead Agency: Governor's Office of Storm Recovery

Name of Responsible Officer in Lead Agency: Lori A. Shirley

Title of Responsible Officer: Director Bureau of Environmental Review and Assessment

Signature of Responsible Officer in Lead Agency: Lori A Shirley Date:

Signature of Preparer (if different from Responsible Officer) Thomas A. Fralick Date: 4/22/2019

For Further Information:

Contact Person: Lori A. Shirley

Address: 38-40 State Street, Albany, New York 12207

Telephone Number: (518) 474-0755

E-mail: Lori.Shirley@nyshcr.org

For Type 1 Actions and Conditioned Negative Declarations, a copy of this Notice is sent to:

Chief Executive Officer of the political subdivision in which the action will be principally located (e.g., Town / City / Village of)
Other involved agencies (if any)
Applicant (if any)
Environmental Notice Bulletin: http://www.dec.ny.gov/enb/enb.html

PRINT FULL FORM

ATTACHMENT

Lead Agency Designation Letter

ENCLOSURES TO LEAD AGENCY LETTER ON WEB SITE
https://stormrecovery.ny.gov/environmental-docs

Governor's Office of
Storm Recovery

ANDREW M. CUOMO
Governor

March 11, 2019

Re: Lead Agency Designation for Environmental Review of Freeport Power Plant No. 2 Resiliency Project - 289 Buffalo Avenue, Village of Freeport, Nassau County, NY 11520

Dear Involved/Interested Agency:

The Governor's Office of Storm Recovery ("GOSR") proposes to serve as lead agency under the National Environmental Policy Act ("NEPA") and State Environmental Quality Review Act ("SEQRA") and related laws for the environmental review of the proposed Freeport Power Plant No 2 Resiliency Project (the "Proposed Action"). GOSR is conducting an environmental review of the Proposed Action on behalf of the State of New York as the recipient of Community Development Block Grant - Disaster Recovery ("CDBG-DR") funds from the U.S. Department of Housing and Urban Development under 42 U.S.C. § 5304(g).[1]

This project consists of design and construction of the long-term and permanent flood protection for the Freeport Electric Power Plant 2 infrastructure. Freeport Power Plant 2 is located in the Village of Freeport on a peninsula of land adjacent to Freeport Creek and Stadium Park Canal. The project consists of design and construction the following flood hazard risk reduction measures:

1. Installation of approximately 1,300 linear feet (ft) of flood wall constructed of vinyl sheet piles (pile length varies) \ demolition of existing chain link fences as shown on the plans. The flood wall bottom wall elevation is designed at -12.0 ft and the wall top elevation is 14.0 ft. The estimated height of sheet pile wall above existing grade ranges from 4.2 ft to 8.3 ft;
2. Construction of approximately 90 linear ft of removable section flood wall near the site's entrance consisting of an aluminum flood plank with concrete footings and removable aluminum "A"-frame mullions;
3. Installation of a new in-line check valve within the existing 36-inch, Outfall No. 1, storm water pipe;
4. Installation of a new mechanical joint plug valve at Outfall No. 2 in the discharge pipe from the existing oil-water separator in the mechanical equipment enclosure;
5. Installation of sound wall gap protection made of aluminum active flood planks at the bottom of the existing sound wall;

[1] The Governor's Office of Storm Recovery, operating under the auspices of New York State Homes and Community Renewal's Housing Trust Fund Corporation, is the responsible entity for the administration of the CDBG-DR grants to the State of New York.

6. Construction of two (2) new duplex stormwater pump stations;
7. Installation of a new 250 gallon per minute spare pump in the existing pump house;
8. Construction of a new below grade emergency sewer pump station and two (2) sewer gate valves.

A 100% Design for these eight (8) flood hazard risk reduction measure has been completed by P.W Grosser Consulting Engineers and dated 12/28/19 (Attachment 1).

The implementation of these measures at Freeport Power Plant No. 2 will significantly reduce risk of facility damage due to water intrusion or inundation from sudden heavy rainstorms, extreme tidal conditions, tropical storms, and hurricanes. In addition, the risk of contamination from onsite leaking oil tanks will be significantly reduced. Further, plant facilities such as structures, machinery, gas compressors, on-site generators, control houses, and transformers will attain higher levels of service and reliability with the added flood protection

This action has been preliminarily classified as an Unlisted action pursuant to SEQRA. Additional information regarding the Proposed Action and its location are provided in the enclosed Full Environmental Assessment Form Part 1. The review of the Proposed Action under NEPA and SEQRA would satisfy the requirements of 24 CFR Part 58 and 6 NYCRR Part 617.

Your agency or organization has been identified as a potential cooperating, involved, or interested agency for the review and approval of the Proposed Action. If your agency consents to GOSR's serving as the lead agency for review under SEQRA, please so indicate by signing this letter and returning it at your earliest convenience to Lori A. Shirley at 38-40 State Street, Albany, New York 12207, or simply email a signed copy to Lori.Shirley@nyshcr.org. If we have not heard from you by 30 days from the date of this letter, your consent will be assumed.

If you have any questions, please feel free to contact me at (518) 474-0755. Thank you for your consideration and cooperation.

Sincerely,

Lori A Shirley

Lori A. Shirley
Director, Bureau of Environmental Review and Assessment
Governor's Office of Storm Recovery
38-40 State Street
Albany, NY 12207

The undersigned hereby consents to The Governor's Office of Storm Recovery serving as lead agency for Freeport Power Plant No. 2 Resiliency Project.

Agency/Organization: _____

By: _____

Name: _____

Title: _____

Date: _____

Permits/Approvals/Comments: _____

_____

_____

_____

_____

_____

Enclosures: List of Involved and Interested Agencies
Long Environmental Assessment Form Part 1

Due to the large size of the attachments, the attachments are provided at https://stormrecovery.ny.gov/environmental-docs

ATTACHMENT

Negative Declaration Distribution List

Governor's Office of
Storm Recovery

ANDREW M. CUOMO
Governor

Mailing List for SEQR Negative Declaration
Freeport Power Plant No. 2 Resiliency Project

Involved

Robert T. Kennedy, Mayor
Village of Freeport
Freeport Village Hall
46 North Ocean Avenue
Freeport, NY 11520

Roger Evans, Regional Permit Administrator, Region 1
New York State Department of Environmental Conservation
SUNY @ Stony Brook
50 Circle Road
Stony Brook, NY 11790-3409

Interested

Mr. Steven T. Papa
U.S. Fish and Wildlife Service
Long Island Field Office
340 Smith Rd
Shirley, NY 11967

Marlene White
Supervisor, Mitigation Projects
NYS Division of Homeland Security & Emergency Services
1220 Washington Avenue, Building 7A - 4th Floor,
Albany, NY 12242

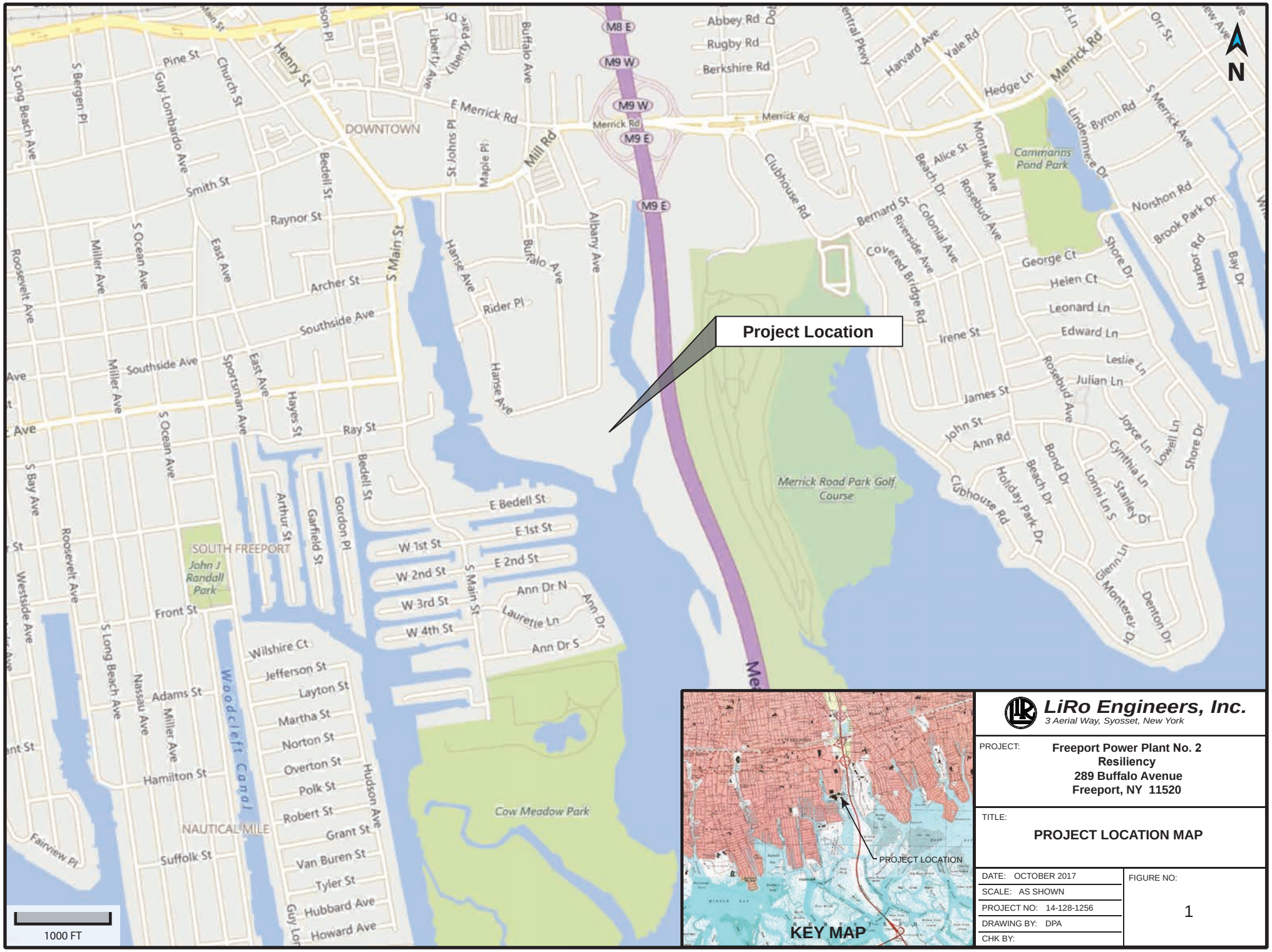
Al Livingston, Superintendent of Electric Utilities
Village of Freeport
Freeport Village Hall 46
North Ocean Avenue
Freeport NY 11709

Pamela Walsh Boening, Village Clerk
Village of Freeport
Freeport Village Hall
46 North Ocean Avenue
Freeport, NY 11520

US Army Corps of Engineers
New York District
ATTN: Regulatory Branch, Room 1937
26 Federal Plaza
New York, NY 10278-0090

EAF
ATTACHMENT 1
PROJECT LOCATION MAP
PROJECT AERIAL FIGURE

J:\14-128-1256 CDBG-DR Projects\Projects\Freeport Power Plant II\Freeport Power Site Plan.ai



LiRo Engineers, Inc.
3 Aerial Way, Syosset, New York

PROJECT: **Freeport Power Plant No. 2 Resiliency**
289 Buffalo Avenue
Freeport, NY 11520

TITLE: **PROJECT LOCATION MAP**

DATE: OCTOBER 2017	FIGURE NO:
SCALE: AS SHOWN	1
PROJECT NO: 14-128-1256	
DRAWING BY: DPA	
CHK BY:	

J:\14-128-1256 CDBG-DR Projects\Projects\Freeport Power Plant II\Freeport Power Aerial.ai

LiRo Engineers, Inc.
3 Aerial Way, Syosset, New York

PROJECT:
Freeport Power Plant No. 2
Resiliency
289 Buffalo Avenue
Freeport, NY 11520

TITLE:
PROJECT LOCATION AERIAL

DATE: OCTOBER 2017	FIGURE NO:
SCALE: AS SHOWN	2
PROJECT NO: 14-128-1256	
DRAWING BY: DPA	
CHK BY:	

EAF

Attachment 2 – Project Description, Purpose and Need
Attachment 3 – Coastal Zone No Effects Coastal Assessment
Attachment 4 – 100% Design Drawings
Attachment 5 – Environmental Standards Review
Attachment 6 – USFWS Consultation and IPaC List and NYSDEC NHP Consultation Letter
Attachment 7 – NYS SHPO Response and Tribal Response
Attachment 8 – Sole Source Aquifer Analysis
Attachment 9 – Summary of 5-Step Floodplain and Wetland Analysis

ATTACHMENTS 2 THROUGH 9
ON WEB SITE
https://stormrecovery.ny.gov/environmental-docs

EAF
ATTACHMENT 2
PROJECT DESCRIPTION,
PURPOSE AND NEED

PROJECT NAME: Freeport Power Plant No. 2 Resiliency

LOCATION: Village of Freeport Power Plant No. 2, 289 Buffalo Ave, Village of Freeport, Nassau County, NY

PROJECT DESCRIPTION

This project consists of design and construction of the long-term and permanent flood protection for the Freeport Electric Power Plant 2 infrastructure. Freeport Power Plant 2 is located in the Village of Freeport and is located on a peninsula of land adjacent to Freeport Creek and Stadium Park Canal (see Attachment 1, Figure 1 and Figure 2). The project consists of design and construction the following flood hazard risk reduction measures:

1. Installation of approximately 1,300 linear feet of flood wall constructed of vinyl sheet piles (pile length varies) \ demolition of existing chain link fences as shown on the plans. The flood wall bottom wall elevation is designed at -12.0 ft. and the wall top elevation is 14.0 ft. feet. The estimated height of sheet pile wall above existing grade ranges from 4.2 feet to 8.3 feet;
2. Construction of approximately 90 linear feet of removable section flood wall near the site's entrance consisting of an aluminum flood plank with concrete footings and removable aluminum "A"-frame mullions;
3. Installation of a new in-line check valve within the existing 36-inch, Outfall No. 1, storm water pipe;
4. Installation of a new mechanical joint plug valve at Outfall No. 2 in the discharge pipe from the existing oil-water separator in the mechanical equipment enclosure;
5. Installation of sound wall gap protection made of aluminum active flood planks at the bottom of the existing sound wall;
6. Construction of two (2) new duplex stormwater pump stations;
7. Installation of a new 250 gallon per minute spare pump in the existing pump house;
8. Construction of a new below grade emergency sewer pump station and two (2) sewer gate valves.

A 100% Design for these eight (8) flood hazard risk reduction measure has been completed by P.W Grosser Consulting Engineers and dated 12/28/19 (Attachment 4).

The implementation of these measures at Freeport Power Plant No. 2 will significantly reduce risk of facility damage due to water intrusion or inundation from sudden heavy rainstorms, extreme tidal conditions, tropical storms, and hurricanes. In addition, the risk of contamination from onsite leaking oil tanks will be significantly reduced. Further, plant facilities such as structures, machinery, gas compressors, on-site generators, control houses, and transformers will attain higher levels of service and customer reliability with the added flood protection.

Statement of Purpose and Need for the Project [40 CFR 1508.9(b)]

Freeport Electric, the Village of Freeport's power utility, owns and maintains power generation and distribution infrastructure throughout the Village. Power Plant 2 is one of two of Freeport Electric's power plants and is the primary power generating facility for approximately 43,000

residents and 1,800 businesses in Freeport, who are the beneficiaries of the project. It is capable of producing up to 87% of Freeport's total electrical power output. The development and design portion of the project will create a process by which the risk of asset loss across the Power Plant 2 site can be reduced.

Future implementation of measures developed and designed through this project will allow Freeport Electric to reduce its risk of losing fuel, power generation potential, and sustaining damage to other portions of the site during extreme weather events. Residents and businesses would be at reduced risk of sustaining loss of life, injury, and property damage from floating and contamination hazards which could be associated with destruction of the Plant's assets during an extreme weather or extreme tidal event. The improvements in the proposed project may reduce the risk of catastrophic loss of the Plant's key fuel storage assets, which are critical in a post-disaster scenario due to storm surge-related flooding.

Existing Conditions and Trends [24 CFR 58.40(a)]

Superstorm Sandy impacted the community's ability to provide power to many of the residents which prevented key community facilities and infrastructure from functioning during and after the storm. This project responds to the issue of power loss by providing improvements that would prevent damage in future extreme weather and/or extreme tidal events.

The Freeport Power Plant No 2 is highly vulnerable to coastal surges due to its location at the southern edge of the Industrial Park peninsula. During Superstorm Sandy and Hurricane Irene, floodwaters reached the control center door. The large volume of water from Superstorm Sandy's surge shifted fuel tanks on their bases, despite being bolted down.

EAF
ATTACHMENT 3
COASTAL ZONE NO EFFECTS
COASTAL ASSESSMENT

STATE OF NEW YORK
DEPARTMENT OF STATE
ONE COMMERCE PLAZA
99 WASHINGTON AVENUE
ALBANY, NY 12231-0001
WWW.DOS.NY.GOV

ANDREW M. CUOMO
GOVERNOR

ROSSANA ROSADO
SECRETARY OF STATE

January 16, 2019

Ms. Alicia Shultz
New York State Homes & Community Renewal
Governor's Office of Storm Recovery
38-40 State Street, 408N, Hampton Plaza
Albany, NY 12207

Re: **F-2018-1290 (FA)**
Governor's Office of Storm Recovery
Freeport Power Plant No. 2 Resiliency

Merrick Creek, Village of Freeport, Nassau County

Federal funding to implement flood hazard risk reduction measures at the Freeport Power Plant No. 2
General Concurrence - No Objection to Funding

Dear Ms. Shultz,

The Department of State (DOS) received the information you submitted regarding the above proposed federal financial assistance on December 3, 2018 and your resubmission on January 11, 2019. DOS has completed its review. Based on this review, the Department of State has no objection to the release of United States Department of Housing and Urban Development (HUD) Community Development Block Grant – Disaster Recovery (CDBG-DR) funding in support of the proposed project.

This concurrence pertains to the federal financial assistance activity or activities for this project only. If certain activities may require a federal permit or other form of federal agency authorization, the Department of State would conduct separate consistency review(s) of permit activities at the time such application(s) may be made to a federal agency.

When communicating with us regarding this matter, please contact us at (518) 474-6000 and refer to our file # F-2018-1290 (FA).

Sincerely,

Matthew Maraglio
Supervisor, Consistency Review Unit
Office of Planning, Development and
Community Infrastructure

MM/LM

NEW YORK STATE OF OPPORTUNITY. | Department of State

NOAA FISHERIES
GREATER ATLANTIC REGIONAL FISHERIES OFFICE
Essential Fish Habitat (EFH) Consultation Guidance
EFH ASSESSMENT WORKSHEET

Introduction:

The Magnuson-Stevens Fishery Conservation and Management Act (MSA) mandates that federal agencies conduct an essential fish habitat (EFH) consultation with NOAA Fisheries regarding any of their actions authorized, funded, or undertaken that may adversely affect EFH. An adverse effect means any impact that reduces the quality and/or quantity of EFH. Adverse effects may include direct or indirect physical, chemical, or biological alterations of the waters or substrate and loss of, or injury to, benthic organisms, prey species and their habitat, and other ecosystem components. Adverse effects to EFH may result from actions occurring within EFH or outside of EFH and may include site-specific or habitat-wide impacts, including individual, cumulative, or synergistic consequences of actions.

This worksheet has been designed to assist in determining whether a consultation is necessary and in preparing EFH assessments. This worksheet should be used as your EFH assessment or as a guideline for the development of your EFH assessment. At a minimum, all the information required to complete this worksheet should be included in your EFH assessment. If the answers in the worksheet do not fully evaluate the adverse effects to EFH, we may request additional information in order to complete the consultation.

An expanded EFH assessment may be required for more complex projects in order to fully characterize the effects of the project and the avoidance and minimization of impacts to EFH. While the EFH worksheet may be used for larger projects, the format may not be sufficient to incorporate the extent of detail required, and a separate EFH assessment may be developed. However, regardless of format, the analysis outlined in this worksheet should be included for an expanded EFH assessment, along with additional information that may be necessary. This additional information includes:

- the results of on-site inspections to evaluate the habitat and site-specific effects
- the views of recognized experts on the habitat or the species that may be affected
- a review of pertinent literature and related information
- an analysis of alternatives to the action that could avoid or minimize the adverse effects on EFH.

Your analysis of adverse effects to EFH under the MSA should focus on impacts to the habitat for all life stages of species with designated EFH, rather than individual responses of fish species. Fish habitat includes the substrate and benthic resources (e.g., submerged aquatic vegetation, shellfish beds, salt marsh wetlands), as well as the water column and prey species.

Consultation with us may also be necessary if a proposed action results in adverse impacts to other NOAA-trust resources. Part 6 of the worksheet is designed to help assess the effects of the action on other NOAA-trust resources. This helps maintain efficiency in our interagency coordination process. In addition, further consultation may be required if a proposed action impacts marine mammals or threatened and endangered species for which we are responsible. Staff from our Greater Atlantic Regional Fisheries Office, Protected

Resources Division should be contacted regarding potential impacts to marine mammals or threatened and endangered species.

Instructions for Use:

Federal agencies must submit an EFH assessment to NOAA Fisheries as part of the EFH consultation. Your EFH assessment must include:

1) A description of the proposed action.
2) An analysis of the potential adverse effects of the action on EFH, and the managed species.
3) The federal agency's conclusions regarding the effects of the action on EFH.
4) Proposed mitigation if applicable.

In order for this worksheet to be considered as your EFH assessment, you must answer the questions in this worksheet fully and with as much detail as available. Give brief explanations for each answer.

Federal action agencies or the non-federal designated lead agency should submit the completed worksheet to NOAA Fisheries Greater Atlantic Regional Fisheries Office, Habitat Conservation Division (HCD) with the public notice or project application. Include project plans showing existing and proposed conditions, all waters of the U.S. on the project site, with mean low water (MLW), mean high water (MHW), high tide line (HTL), and water depths clearly marked and sensitive habitats mapped, including special aquatic sites (submerged aquatic vegetation, saltmarsh, mudflats, riffles and pools, coral reefs, and sanctuaries and refuges), hard bottom habitat areas and shellfish beds, as well as any available site photographs.

For most consultations, NOAA Fisheries has 30 days to provide EFH conservation recommendations once we receive a complete EFH assessment. Submitting all necessary information at once minimizes delays in review and keeps review timelines consistent. Delays in providing a complete EFH assessment can result in our consultation review period extending beyond the public comment period for a particular project.

The information contained on the HCD website (http://www.greateratlantic.fisheries.noaa.gov/habitat/) will assist you in completing this worksheet. The HCD website contains information regarding: the EFH consultation process; Guide to EFH Designations which provides a geographic species list; Guide to EFH Species Descriptions which provides the legal description of EFH as well as important ecological information for each species and life stage; and other EFH reference documents including examples of EFH assessments and EFH consultations.

Our website also includes a link to the NOAA EFH Mapper (http://www.habitat.noaa.gov/protection/efh/efhmapper/index.html). We would note that the EFH Mapper is currently being updated and revised. Should you use the EFH Mapper to identify federally managed species with designated EFH in your project area, we recommend checking this list against the Guide to Essential Fish Habitat Designations in the Northeast (http://www.greateratlantic.fisheries.noaa.gov/hcd/index2a.htm) to ensure a complete and accurate list is provided.

EFH ASSESSMENT WORKSHEET FOR FEDERAL AGENCIES (modified 3/2016)

PROJECT NAME: Freeport Power Plant No. 2 Resiliency

DATE: 12/18/2018

PROJECT NO.:

LOCATION (Water body, county, physical address): 289 Buffalo Ave, Village of Freeport, Nassau County, NY

PREPARER: Alicia Shultz, Senior Environmental Scientist, GOSR

Step 1: Use the Habitat Conservation Division EFH webpage's Guide to Essential Fish Habitat Designations in the Northeastern United States to generate the list of designated EFH for federally-managed species for the geographic area of interest (http://www.greateratlantic.fisheries.noaa.gov/hcd/index2a.htm). Use the species list as part of the initial screening process to determine if EFH for those species occurs in the vicinity of the proposed action. The list can be included as an attachment to the worksheet. Make a preliminary determination on the need to conduct an EFH consultation.

1. INITIAL CONSIDERATIONS

EFH Designations	Yes	No
Is the action located in or adjacent to EFH designated for eggs? **List the species:** Atlantic Mackerel, Winter Flounder, Ocean Pout, Monkfish, Windowpane F		
Is the action located in or adjacent to EFH designated for larvae? **List the species:** Atlantic Mackerel, Winter Flounder, Monkfish, Windowpane Flounder		
Is the action located in or adjacent to EFH designated for juveniles? **List the species:** Black Sea Bass, Atlantic Mackerel, Winter Flounder, Bluefish, Atlantic But		
Is the action located in or adjacent to EFH designated for adults or spawning adults? List the species:		
If you answered no to all questions above, then EFH consultation is not required - go to Section 5. If you answered yes to any of the above questions proceed to Section 2 and complete remainder of the worksheet.		☐

Step 2: In order to assess impacts, it is critical to know the habitat characteristics of the site before the activity is undertaken. Use existing information, to the extent possible, in answering these questions. Identify the sources of the information provided and provide as much description as available. These should not be yes or no answers. Please note that there may be circumstances in which new information must be collected to appropriately characterize the site and assess impacts. Project plans that show the location and extent of sensitive habitats, as well as water depths, the HTL, MHW and MLW should be provided.

2. SITE CHARACTERISTICS

Site Characteristics	Description
Is the site intertidal, sub-tidal, or water column?	Subtidal.
What are the sediment characteristics?	
Is there submerged aquatic vegetation (SAV) at or adjacent to project site? If so describe the SAV species and spatial extent.	No.
Are there wetlands present on or adjacent to the site? If so, describe the spatial extent and vegetation types.	Tidal wetlands adjacent to project location, see attached wetland map. Estuarine Subtidal Unconsolidated Bottom (E1UBL)
Is there shellfish present at or adjacent to the project site? If so, please describe the spatial extent and species present.	Closed to shellfishing because of nonpoint source runoff from roads and other impermeable surfaces, and because mainland sewage treatment plants discharge into bay waters. The Tidal Tribs to South Oyster Bay segment is a Class SC waterbody, suitable for general recreation use and support of aquatic life, but not for shellfishing or public bathing
Are there mudflats present at or adjacent to the project site? If so please describe the spatial extent.	No.
Is there rocky or cobble bottom habitat present at or adjacent to the project site? If so, please describe the spatial extent.	Yes, cobble-gravel and sand. See attached maps showing the tributary adjacent to the project.
Is Habitat Area of Particular Concern (HAPC) designated at or near the site? If so for which species, what type habitat type, size, characteristics?	No.
What is the typical salinity, depth and water temperature regime/range?	ranges from 25 to 30 parts per thousand, depending on location and time of year; temperature ranges from -2.0 to 29.4°C (28 to 85°F).
What is the normal frequency of site disturbance, both natural and man-made?	The area is subject to significant human recreational pressure and disturbance that result from its abundant fishery resources coupled with its being virtually surrounded by residential development.

What is the area of proposed impact (work footprint & far afield)?	No in water work.

<u>Step 3</u>: This section is used to describe the anticipated impacts from the proposed action on the physical/chemical/biological environment at the project site and areas adjacent to the site that may be affected.

3. DESCRIPTION OF IMPACTS

Impacts	Y	N	Description
Nature and duration of activity(s). Clearly describe the activities proposed and the duration of any disturbances.			See cover letter.
Will the benthic community be disturbed? If no, why not? If yes, describe in detail how the benthos will be impacted.	☐	☑	No in water work. Best management practices will be followed along with permit conditions which are protection of benthic communities.
Will SAV be impacted? If no, why not? If yes, describe in detail how the SAV will be impacted. Consider both direct and indirect impacts. Provide details of any SAV survey conducted at the site.	☐	☑	No SAV
Will salt marsh habitat be impacted? If no, why not? If yes, describe in detail how wetlands will be impacted. What is the aerial extent of the impacts? Are the effects temporary or permanent?	☐	☑	No, salt marsh not present.
Will mudflat habitat be impacted? If no, why not? If yes, describe in detail how mudflats will be impacted. What is the aerial extent of the impacts? Are the effects temporary or permanent?	☐	☑	No mud flats present.
Will shellfish habitat be impacted? If so, provide in detail how the shellfish habitat will be impacted. What is the aerial extent of the impact?	☐	☑	No shellfish habitat nearby.

Provide details of any shellfish survey conducted at the site.	☐		None has been completed.
Will hard bottom (rocky, cobble, gravel) habitat be impacted at the site? If so, provide in detail how the hard bottom will be impacted. What is the aerial extent of the impact?		✔	No in water work.
Will sediments be altered and/or sedimentation rates change? If no, why not? If yes, describe how.			No, the flood walls to be constructed will not increase sedimentation rates and during construction best management practices as well as adherence to permit conditions will prevent sedimentation during construction.
Will turbidity increase? If no, why not? If yes, describe the causes, the extent of the effects, and the duration.	☐		No in water work. Permit conditions require turbidity controls.
Will water depth change? What are the current and proposed depths?	☐	✔	No changes. No in water work.
Will contaminants be released into sediments or water column? If yes, describe the nature of the contaminants and the extent of the effects.	☐	✔	No contaminants associated with the project.
Will tidal flow, currents, or wave patterns be altered? If no, why not? If yes, describe in detail how.	☐	✔	No in water work, the flood walls above MHW.
Will water quality be altered? If no, why not? If yes, describe in detail how. If the effects are temporary, describe the duration of the impact.	☐	✔	All work will be completed in accordance with permit conditions which are protective of water quality.
Will ambient noise levels change? If no, why not? If yes, describe in detail how. If the effects are temporary, describe the duration and degree of impact.	✔	☐	Noise levels are anticipated to increase during work hours and will only be temporary.

Does the action have the potential to impact prey species of federally managed fish with EFH designations?		✔	No.

<u>Step 4</u>: This section is used to evaluate the consequences of the proposed action on the functions and values of EFH as well as the vulnerability of the EFH species and their life stages. Identify which species (from the list generated in Step 1) will be adversely impacted from the action. Assessment of EFH impacts should be based upon the site characteristics identified in Step 2 and the nature of the impacts described within Step 3. The Guide to EFH Descriptions webpage (<u>http://www.greateratlantic.fisheries.noaa.gov/hcd/list.htm</u>) should be used during this assessment to determine the ecological parameters/preferences associated with each species listed and the potential impact to those parameters.

4. EFH ASSESSMENT			
Functions and Values	**Y**	**N**	**Describe habitat type, species and life stages to be adversely impacted**
Will functions and values of EFH be impacted for:			
<u>Spawning</u> **If yes, describe in detail how, and for which species. Describe how adverse effects will be avoided and minimized.**		✔	
<u>Nursery</u> **If yes, describe in detail how and for which species. Describe how adverse effects will be avoided and minimized.**		✔	
<u>Forage</u> **If yes, describe in detail how and for which species. Describe how adverse effects will be avoided and minimized.**		✔	
<u>Shelter</u> **If yes, describe in detail how and for which species. Describe how adverse effects will be avoided and minimized.**		✔	

Will impacts be temporary or permanent? Describe the duration of the impacts.			
Will compensatory mitigation be used? If no, why not? Describe plans for mitigation and how this will offset impacts to EFH. Include a conceptual compensatory mitigation plan, if applicable.	☐	✔	Not required or needed.

<u>Step 5</u>: This section provides the federal agency's determination on the degree of impact to EFH from the proposed action. The EFH determination also dictates the type of EFH consultation that will be required with NOAA Fisheries.

Please note: if information provided in the worksheet is insufficient to allow NOAA Fisheries to complete the EFH consultation additional information will be requested.

5. DETERMINATION OF IMPACT		
	/	**Federal Agency's EFH Determination**
Overall degree of adverse effects on EFH (not including compensatory mitigation) will be: **(check the appropriate statement)**	✔	**There is no adverse effect on EFH or no EFH is designated at the project site.** **EFH Consultation is not required**
	☐	**The adverse effect on EFH is not substantial. This means that the adverse effects are either no more than minimal, temporary, or that they can be alleviated with minor project modifications or conservation recommendations.** **This is a request for an abbreviated EFH consultation.**
	☐	**The adverse effect on EFH is substantial.** **This is a request for an expanded EFH consultation**

Step 6: Consultation with NOAA Fisheries may also be required if the proposed action results in adverse impacts to other NOAA-trust resources, such as anadromous fish, shellfish, crustaceans, or their habitats as part of the Fish and Wildlife Coordination Act Some examples of other NOAA-trust resources are listed below. Inquiries regarding potential impacts to marine mammals or threatened/endangered species should be directed to NOAA Fisheries' Protected Resources Division.

6. OTHER NOAA-TRUST RESOURCES IMPACT ASSESSMENT	
Species known to occur at site (list others that may apply)	**Describe habitat impact type (i.e., physical, chemical, or biological disruption of spawning and/or egg development habitat, juvenile nursery and/or adult feeding or migration habitat). Please note, impacts to federally listed species of fish, sea turtles, and marine mammals must be coordinated with the GARFO Protected Resources Division.**
Spiny Dogfish	No impact to habitat, adults are anticipated to move out of the area during removal and replacement of pilings
Scup	No impact to habitat, juvenile and adults are anticipated to move out of the area during removal and replacement of pilings
Summer Flounder	No impact to habitat, juvenile and adults are anticipated to move out of the area during removal and replacement of pilings
Black Sea Bash	No impact to habitat, juveniles are anticipated to move out of the area during removal and replacement of pilings
White Shark	No impact to habitat, removal and replacement of pilings are not anticipated to impact neonate
other species:	NMFS will be consulted for marine species.

Useful Links

National Wetland Inventory Maps
http://www.fws.gov/wetlands/

EPA's National Estuaries Program
http://www.epa.gov/nep/information-about-local-estuary-programs

Northeast Regional Ocean Council (NROC) Data Portal
http://www.northeastoceandata.org/

Mid-Atlantic Regional Council on the Ocean (MARCO) Data Portal
http://portal.midatlanticocean.org/

Resources by State:

Maine
Eelgrass maps
http://www.maine.gov/dmr/rm/eelgrass/
Maine Office of GIS Data Catalog
http://www.maine.gov/megis/catalog/
Casco Bay Estuary Partnership
http://www.cascobayestuary.org/
Maine GIS Stream Habitat Viewer
http://mapserver.maine.gov/streamviewer/index.html

New Hampshire
New Hampshire's Statewide GIS Clearinghouse, NH GRANIT
http://www.granit.unh.edu/
New Hampshire Coastal Viewer
http://www.granit.unh.edu/nhcoastalviewer/

Massachusetts
Eelgrass maps
http://maps.massgis.state.ma.us/images/dep/eelgrass/eelgrass_map.htm
MADMF Recommended Time of Year Restrictions Document
http://www.mass.gov/eea/docs/dfg/dmf/publications/tr-47.pdf
Massachusetts Bays National Estuary Program
http://www.mass.gov/eea/agencies/mass-bays-program/
Buzzards Bay National Estuary Program
http://buzzardsbay.org/
Massachusetts Division of Marine Fisheries
http://www.mass.gov/eea/agencies/dfg/dmf/
Massachusetts Office of Coastal Zone Management
http://www.mass.gov/eea/agencies/czm/

Rhode Island
Eelgrass maps
http://www.savebay.org/file/2012_Mapping_Submerged_Aquatic_Vegetation_final_report_4_2013.pdf
Narraganset Bay Estuary Program
http://www.dem.ri.gov/programs/benviron/water/wetlands/wetldocs.htm
Rhode Island Division of Marine Fisheries
http://www.dem.ri.gov/
Rhode Island Coastal Resources Management Council
http://www.crmc.ri.gov/

Connecticut
Eelgrass Maps
https://www.fws.gov/northeast/ecologicalservices/pdf/wetlands/2012_CT_Eelgrass_Final_Report_11_26_2013.pdf
Long Island Sound Study
http://longislandsoundstudy.net/
CT GIS Resources
http://www.ct.gov/deep/cwp/view.asp?a=2698&q=323342&deepNav_GID=1707
CT DEEP Office of Long Island Sound Programs and Fisheries
http://www.ct.gov/deep/
CT Bureau of Aquaculture Shellfish Maps
http://www.ct.gov/doag/cwp/view.asp?a=3768&q=451508&doagNav=
CT River Watershed Council
http://www.ctriver.org/

New York
Eelgrass report
http://www.dec.ny.gov/docs/fish_marine_pdf/finalseagrassreport.pdf
Peconic Estuary Program
http://www.peconicestuary.org/
NY/NJ Harbor Estuary
http://www.harborestuary.org/

New Jersey
Submerged Aquatic Vegetation mapping
http://crssa.rutgers.edu/projects/coastal/sav/
Barnegat Bay Partnership
http://bbp.ocean.edu/pages/1.asp

Delaware
Partnership for the Delaware Estuary
http://www.delawareestuary.org/
Center for Delaware Inland Bays
http://www.inlandbays.org/

Maryland
Submerged Aquatic Vegetation mapping
http://data.imap.maryland.gov/datasets/da64df6bd4124ce9989e6c186a7906a7_0
MERLIN
http://geodata.md.gov/imaptemplate/?appid=a8ec7e2ff4c34a31bc1e9411ed8e7a7e
Maryland Coastal Bays Program
http://www.mdcoastalbays.org/

Virginia
Submerged Aquatic Vegetation mapping
http://web.vims.edu/bio/sav/maps.html

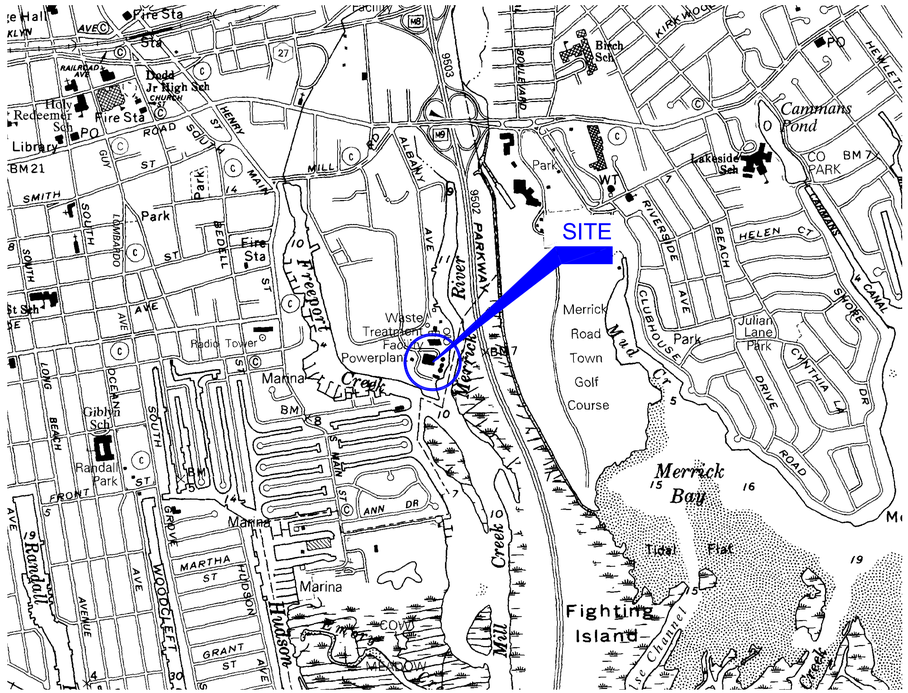
EAF
ATTACHMENT 4
100 % DESIGN DRAWINGS

POWER PLANT NO. 2

VILLAGE OF FREEPORT, TOWN OF HEMPSTEAD

NASSAU COUNTY, NEW YORK

PROTECTION OF POWER PLANT NO. 2



KEY MAP
SCALE: 1" = 1,000'

0 1,000 2,000
SCALE: 1" = 1,000'

PLANS

ISSUED FOR: 100% DESIGN DOCUMENTS
ISSUE DATE: DECEMBER 28, 2018
LAST REVISED: DECEMBER 28, 2018

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13	C-504	STORMWATER PUMP DETAILS	12/28/2018
14	C-505	SEWAGE PUMP STATION DETAILS	12/28/2018

PROJECT CONTACTS

ENGINEER:
P.W. GROSSER CONSULTING
ENGINEER & HYDROGEOLOGIST, P.C.
630 JOHNSON AVENUE, SUITE 7, BOHEMIA, NY 11716
TEL (631) 589-6353 FAX (631) 589-8705

SITE INFORMATION

OWNER:
VILLAGE OF FREEPORT
46 NORTH OCEAN AVENUE
FREEPORT, NEW YORK 11520

P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, P.C.

630 JOHNSON AVE. • SUITE 7
BOHEMIA • NY • 11716-2618
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Civil Site Notes

General

1. CONTRACTOR SHALLL NOTIFY "DIG-SAFE" (1-888-344-7833) AT LEAST 72 HOURS BEFORE EXCAVATING.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.

3. AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) SHALL RECIEVE 6 INCHES LOAM AND SEED.

4. WORK WITHIN THE LOCAL RIGHTS-OF-WAY SHALL CONFORM TO LOCAL MUNICIPAL STANDARDS. WORK WITHIN THE COUNTY RIGHTS-OF-WAY SHALL CONFORM TO COUNTY STANDARDS. WORK WITHIN STATE RIGHTS-OF-WAY SHALL CONFORM TO THE LATEST EDITION OF THE STATE HIGHWAY DEPARTMENTS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.

5. UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, AND FIRE HYDRANTS, WITHOUT APPROPRIATE PERMITS.

6. TRAFFIC SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

7. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

8. IN THE EVENT THAT THE SUSPECTED CONTAMINATED SOIL, GROUNDWATER, AND OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL TO AVOID FURTHER SPREADING OF THE MATERIAL, AND SHALL NOTIFY THE OWNER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.

9. CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS, AND CORRECTIVE ACTION IF SUCH OCCURS.

10. DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.

11. CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO OFF-SITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO OWNER.

Civil Site Notes

Erosion Control

1. PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS REQUIRED AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.

2. CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES, AND REMOVE SEDIMENT THEREFROM ON A WEEKLY BASIS AND WITHIN TWELVE HOURS AFTER EACH STORM EVENT AND DISPOSE OF SEDIMENTS IN AN UPLAND AREA SUCH THAT THEY DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.

3. CONTRACTOR SHLL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT.

4. CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED TO PREVENT EROSION.

5. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE DRAINAGE AND SEWER SYSTEMS.

Civil Site Notes

Utilities

1. THE LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR IT'S REPRESENTATIVE(S) HAVE NOT INDEPENDENTLY VERIFIED THIS INFORMATION AS SHOWN ON THE PLANS. THE UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTUAL EXISTENCE, SERVICEABILITY, OR OTHER DATA CONCERNING THE UTILITES, NOR DOES IT GUARANTEE AGAINST THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE PLANS. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND DETERMINE THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISITING UTILITIES AND SHALL CONFIRM THAT THERE ARE NO INTERFERENCES WITH EXISTING UTILITIES AND THE PROPOSED UTILITY ROUTES, INCLUDING ROUTES WITHIN THE PUBLIC RIGHTS OF WAY.

2. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, OR EXISTING CONDITIONS DIFFER FROM THOSE SHOWN SUCH THAT THE WORK CANNOT BE COMPLETED AS INTENDED, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED IN WRITING TO THE OWNER'S REPRESENTATIVE FOR THE RESOLUTION OF THE CONFLICT AND CONTRACTOR'S FAILURE TO NOTIFY PRIOR TO PERFORMING ADDITIONAL WORK RELEASES OWNER FROM OBLIGATIONS FOR ADDITIONAL PAYMENTS WHICH OTHERWISE MAY BE WARRANTED TO RESOLVE THE CONFLICT.

3. SET BASIN RIMS, MANHOLES, INVERTS OF SEWERS, AND STORMWATER PIPES IN ACCORDANCE WITH ELEVATIONS NOTED ON THE PLANS.

4. RIM ELEVATIONS FOR DRAIN AND SEWER MANHOLES, WATER VALVE COVERS, GAS GATES, ELECTRIC AND TELEPHONE PULL BOXES, AND MANHOLES, AND OTHER SUCH ITEMS ARE APPROXIMATE AND SHALL BE SET/RESET AS FOLLOWS:

   A. PAVEMENT AND CONCRETE SURFACES: FLUSH

   B. ALL SURFACES ALONG ACCESSIBLE ROUTES: FLUSH

   C. LANDSCAPE, LOAM AND SEED, AND OTHER EARTH SURFACE AREAS: ONE INCH ABOVE SURROUNDING AREA AND TAPER EARTH TO RIM ELEVATION.

5. THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY, THE RESPECTIVE UTILITY COMPANY (GAS, TELEPHONE, ELECTRIC, FIRE ALARM, ETC.). FINAL DESIGN LOADS AND LOCATIONS TO BE COORDINATED WITH THE OWNER AND ARCHITECT.

6. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR AND SHALL BE RESPONSIBLE FOR PAYING FEES FOR POLE RELOCATION AND FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, FIRE ALARM, AND ANY OTHER PRIVATE UTILITIES, WHETHER WORK IS PERFORMED BY CONTRACTOR OR BY THE UTILITIES COMPANY.

7. UTILITY PIPE MATERIALS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLAN:

   A. WATER PIPES SHALL BE CEMENT LINE DUCTILE IRON PIPE (CLDI)

   B. SANITARY SEWER PIPES SHALL BE POLYVINYL CHLORIDE (PVC)

   C. STORM DRAINAGE PIPES SHALL BE REINFORCED CONCRETE PIPE (RCP)

8. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND SHALL FURNISH EXCAVATION, INSTALLATION, AND BACKFILL OF ELECTRICAL FURNISHED SITEWORK RELATED ITEMS SUCH AS PULL BOXES, CONDUITS, DUCT BANKS, LIGHT POLE BASES, AND CONCRETE PADS. SITE CONTRACTOR SHALL FURNISH CONCRETE ENCASEMENT OF DUCT BANKS IF REQUIRED BY THE UTILITY COMPANY AND AS INDICATED ON THE DRAWINGS.

9. CONTRACTOR SHALL EXCAVATE AND BACKFILL TRENCHES FOR GAS IN ACCORDANCE WITH GAS COMPANY'S REQUIREMENTS.

10. ALL DRAINAGE AND SANITARY STRUCTURE INTERIOR DIAMETERS (4' MIN.) SHALL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS AND LOCAL MUNICIPAL STANDARDS. FOR MANHOLES THAT ARE 20 FEET IN DEPTH AND GREATER, THE MINIMUM DIAMETER SHALL BE 5 FEET.

Utility Information

SERVICE	OPERATING AUTHORITY
ELECTRIC	FREEPORT ELECTRIC
WATER	FREEPORT WATER SERVICE
TELEPHONE	VERIZON
SANITARY	FREEPORT VILLAGE SEWER
GAS	NATIONAL GRID

Structural Notes

Codes and Standards

1. THE FOLLOWING CODES AND STANDARDS, INCLUDING ALL SPECIFICATIONS REFERENCED WITHIN, SHALL APPLY TO THE DESIGN, CONSTRUCTION, QUALITY CONTROL AND SAFETY OF ALL WORK PERFORMED ON THE PROJECT. USE THE VERSION REFERENCED IN THE BUILDING CODE UNLESS NOTED OTHERWISE.

   a. BUILDING CODE: 2014 NEW YORK CITY BUILDING CODE
   b. "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES", ASCE 7-05 & ASCE 7-10, AMERICAN SOCIETY OF CIVIL ENGINEERS.
   c. "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ACI 318-11, AMERICAN CONCRETE INSTITUTE.
   d. "ACI MANUAL OF CONCRETE PRACTICE - PARTS 1 THROUGH 6.
   e. "MANUAL OF STANDARD PRACTICE", CONCRETE REINFORCING STEEL INSTITUTE.
   f. CONCRETE INSTITUTE/AMERICAN SOCIETY OF CIVIL ENGINEERS.

Concrete

1. CAST-IN-PLACE CONCRETE:
a. REINFORCING STEEL PLACING DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 315, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT". THE PLACING DRAWINGS SHALL SHOW ALL INFORMATION NECESSARY TO FABRICATE AND PLACE THE REINFORCING STEEL.

THE SPACING OF ALL REINFORCING STEEL MUST BE COMPUTED BY THE REINFORCING STEEL DETAILER AND MUST BE INDICATED ON THE PLACING DRAWINGS. EXTENT ARROWS MUST BE USED TO CLEARLY INDICATE THE LOCATIONS WHERE GROUPS OF REINFORCING BARS ARE TO BE INSTALLED.

A LIST OF ALL APPLICABLE REINFORCING STEEL PLACEMENT TOLERANCES SHALL BE INDICATED ON ALL REINFORCING STEEL PLACING DRAWINGS. PLACING DRAWINGS THAT DO NOT SHOW SUFFICIENT INFORMATION NEEDED TO PLACE THE REINFORCING STEEL WILL BE REJECTED.

b. REINFORCING STEEL SHALL BE DETAILED AND INSTALLED TO HAVE THE FOLLOWING CONCRETE CLEAR COVER DIMENSIONS, UNLESS NOTED OTHERWISE:

REINF. STEEL IN CONCRETE CAST AGAINST SOIL	3"
REINF. STEEL IN CONCRETE EXPOSED TO SOIL OR WEATHER	
#5 BARS AND SMALLER	1-1/2"
#6 BARS AND LARGER	2"
SLAB AND WALL REINF. NOT EXPOSED TO SOIL OR WEATHER	3/4"

Foundations and Structural Earthwork

1. GENERAL:
a. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS FOR EXCAVATION, FOR PREPARATION OF THE SUBGRADE BELOW THE FOUNDATIONS AND SLABS-ON-GRADE, FOR SUB-BASE REQUIREMENTS BELOW SLABS-ON-GRADE, FOR COMPACTION PROCEDURES AND FOR ALL OTHER GEOTECHNICAL REQUIREMENTS NOT SPECIFICALLY DELINEATED ON THE STRUCTURAL DRAWINGS. THE SPECIFICATIONS AND THE REQUIREMENTS CONTAINED THEREIN SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS.
b. CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS THAT MAY AFFECT THE INSTALLATION OF THE FOUNDATION SYSTEM AS SHOWN PRIOR TO STARTING WORK.
c. FOUNDATIONS SHALL BE PLACED ON UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL. WHERE FOUNDATIONS BEAR ON ROCK, FOUNDATIONS SHALL BEAR ON THAT ROCK OR ON LEAN CONCRETE FILL. BEARING ELEVATIONS ARE ESTIMATED FROM SOIL BORING DATA INDICATED IN THE SPECIFICATIONS. DETERMINATION OF FINAL BEARING ELEVATIONS AND FIELD VERIFICATION OF ALLOWABLE BEARING PRESSURE SHALL BE MADE BY AN EXPERIENCED, QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PLACING FOUNDATIONS.
d. CONCRETE FOR FOUNDATIONS SHALL BE POURED ON THE SAME DAY SUBGRADE APPROVAL IS GIVEN BY THE GEOTECHNICAL ENGINEER.
e. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEER'S APPROVAL. BELOW GRADE UTILITY OR PIPE ELEVATIONS, WHERE SHOWN, ARE INDICATED FOR REFERENCE ONLY. REQUIRED ELEVATIONS SHALL BE DETERMINED BY OTHERS AND COORDINATED WITH THE FOUNDATIONS.
f. THE SLOPE BETWEEN THE LOWER EDGES OF ADJACENT FOOTINGS SHALL NOT EXCEED 45 DEGREES WITH THE HORIZONTAL, UNLESS INDICATED OTHERWISE IN THE GEOTECHNICAL REPORT.
g. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT ALL EXISTING STRUCTURES, CURBS, STREETS, ETC. FROM DAMAGE BY CONSTRUCTION EQUIPMENT. THE CONTRACTOR SHALL NOT DISPOSE OF ANY LIQUIDS, SLURRY, SPOILS OR CHEMICALS ON THE SITE EXCEPT AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND APPROVED BY THE AGENCIES HAVING JURISDICTION.
h. NEW FOOTING BEARING ELEVATIONS SHALL MATCH ADJACENT EXISTING FOOTING BEARING ELEVATIONS WHERE APPLICABLE UNLESS INDICATED OTHERWISE ON PLANS.

2. BACKFILL:
a. BACKFILLING SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS. BACKFILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO INSTALLATION.
b. WHERE THE FINAL GRADE ELEVATIONS ARE APPROXIMATELY EQUAL ON BOTH SIDES OF A WALL, BACKFILL IN LIFTS TO MAINTAIN LEVEL ELEVATIONS WITHIN 12" ON BOTH SIDES AT ANY TIME.

3. STRUCTURAL FILL:
a. REFER TO THE REQUIREMENTS INDICATED IN THE SPECIFICATIONS FOR COMPACTED STRUCTURAL FILL. INSPECTION OF THE PLACEMENT OF COMPACTED STRUCTURAL FILL SHALL BE BY AN EXPERIENCED, QUALIFIED GEOTECHNICAL ENGINEER.

Existing Site Notes

Previous Use

1. 289 BUFFALO AVENUE (THE SITE) WAS USED AS A LANDFILL PRIOR TO THE CONSTRUCTION OF POWER PLANT 2 IN 1968. AS SUCH, BURIED OBJECTS AND MATERIALS ARE LIKELY TO EXIST ON SITE. OBSTACLES ENCOUNTERED DUE TO BURIED MATERIALS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
2. CONTRACTOR MAY WANT TO CONSIDER PERIODICALLY VIBRATING A TEMPORARY STEEL SHEET, PRIOR TO THE INSTALLATION OF THE VINYL SHEETS, TO DETERMINE THE PRESENCE OF BURIED MATERIALS.
3. EXISTING TREES AND TREE ROOTS NEAR THE SITE PERIMETER, WITHIN THE LIMITS OF THE PROPERTY LINES, MAY BE CUT AND GRUBBED IF NECESSARY. HOWEVER, THE NUMBER AND LOCATION OF ANY TREES TO BE REMOVED MUST BE COMMUNICATED TO OWNER, ENGINEER, AND GOSR, PRIOR TO REMOVAL.

PWGC

Strategic Environmental and Engineering Solutions

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CONSULTANTS

Number	Revision Description	Revision Date
7		
6		
5		
4		
3		
2		
1		

Designed By	SMR/GMG	Date Submitted	12/28/2018
Drawn By	SMR/GMG	Date Created	10/01/2018
Approved By	GR	Scale	AS SHOWN

Client:
VILLAGE OF FREEPORT
46 NORTH OCEAN AVENUE
FREEPORT, NEW YORK 11520

Project:
PROTECTION OF POWER PLANT NO. 2

Project Address:
289 BUFFALO AVENUE
VILLAGE OF FREEPORT
NASSAU COUNTY, NEW YORK

County Tax Map Number:
Contract Number:
Regulatory Reference Number:

Title of Drawing:
NOTES

Drawing Number:
G-101

Sheet 2 of 14

PWGC Project Number:
FPT1802

Unauthorized alteration or addition to this drawing and related documents is a violation of Section 7209 of the New York State Education Law

PWGC FILE NAME: J:\Projects E-L\FPT\FPT1802-Freeport Electric PP2\CAD\Construction Drawings\FPT1802 - Plan Set (12-20-18)- G-100, G-101, C100, C101.dwg (G-101)
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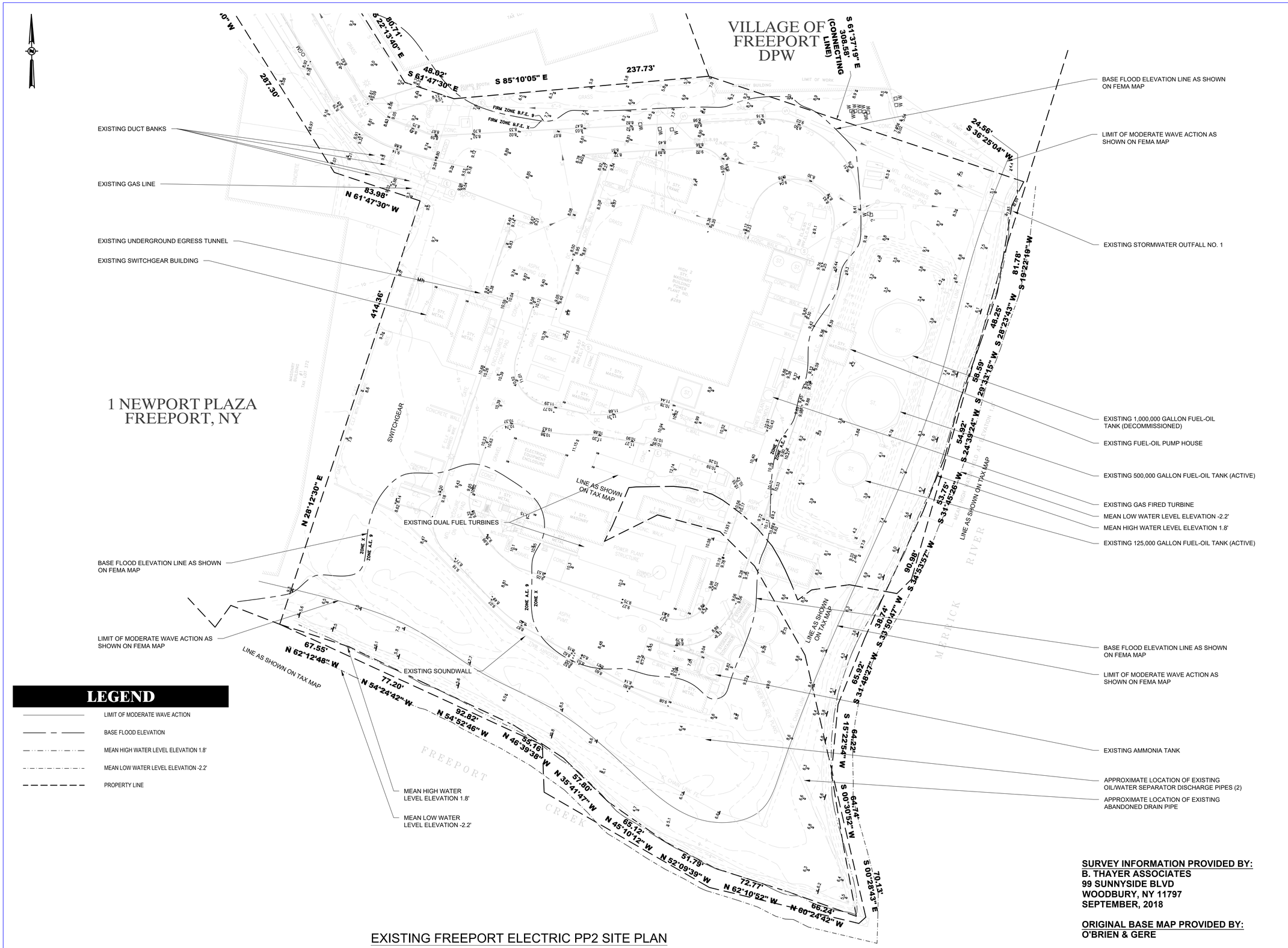

LEGEND

- LIMIT OF MODERATE WAVE ACTION
- BASE FLOOD ELEVATION
- MEAN HIGH WATER LEVEL ELEVATION 1.8'
- MEAN LOW WATER LEVEL ELEVATION -2.2'
- PROPERTY LINE

SURVEY INFORMATION PROVIDED BY:
B. THAYER ASSOCIATES
99 SUNNYSIDE BLVD
WOODBURY, NY 11797
SEPTEMBER, 2018

ORIGINAL BASE MAP PROVIDED BY:
O'BRIEN & GERE

EXISTING FREEPORT ELECTRIC PP2 SITE PLAN

0 40 80
SCALE: 1" = 40'

PWGC
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7		
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1		

Designed By	SMR/GMG	Date Submitted	12/28/2018
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EXISTING SITE PLAN

Drawing Number:
C-100

Sheet 3 of 14

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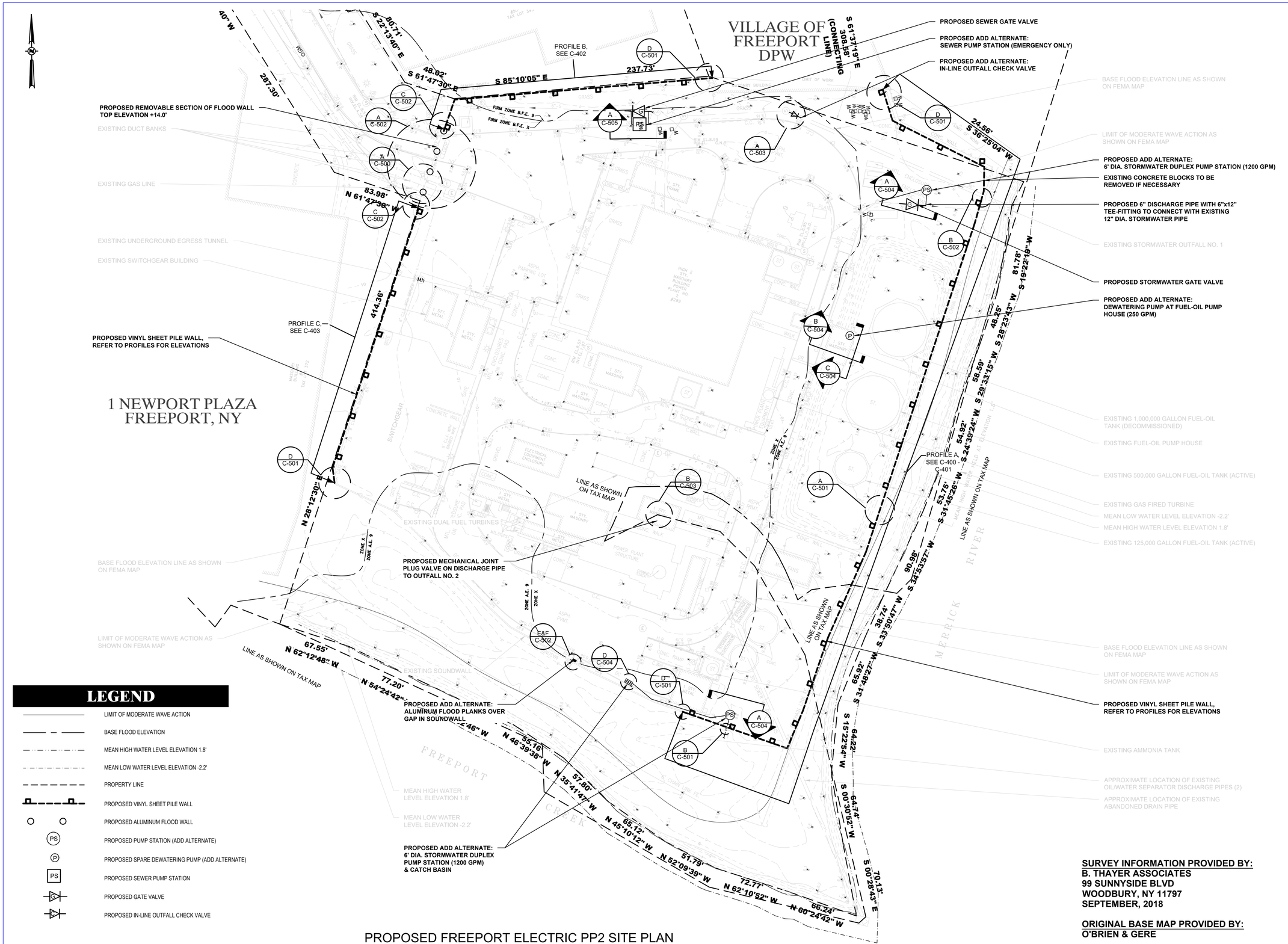

PROPOSED FREEPORT ELECTRIC PP2 SITE PLAN

SURVEY INFORMATION PROVIDED BY:
B. THAYER ASSOCIATES
99 SUNNYSIDE BLVD
WOODBURY, NY 11797
SEPTEMBER, 2018

ORIGINAL BASE MAP PROVIDED BY:
O'BRIEN & GERE

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PROPOSED SITE PLAN

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C-101

Sheet 4 of 14

PWGC Project Number: FPT1802

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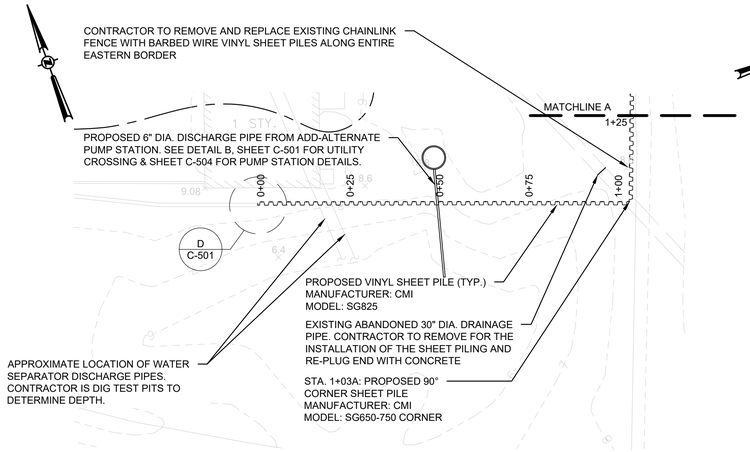
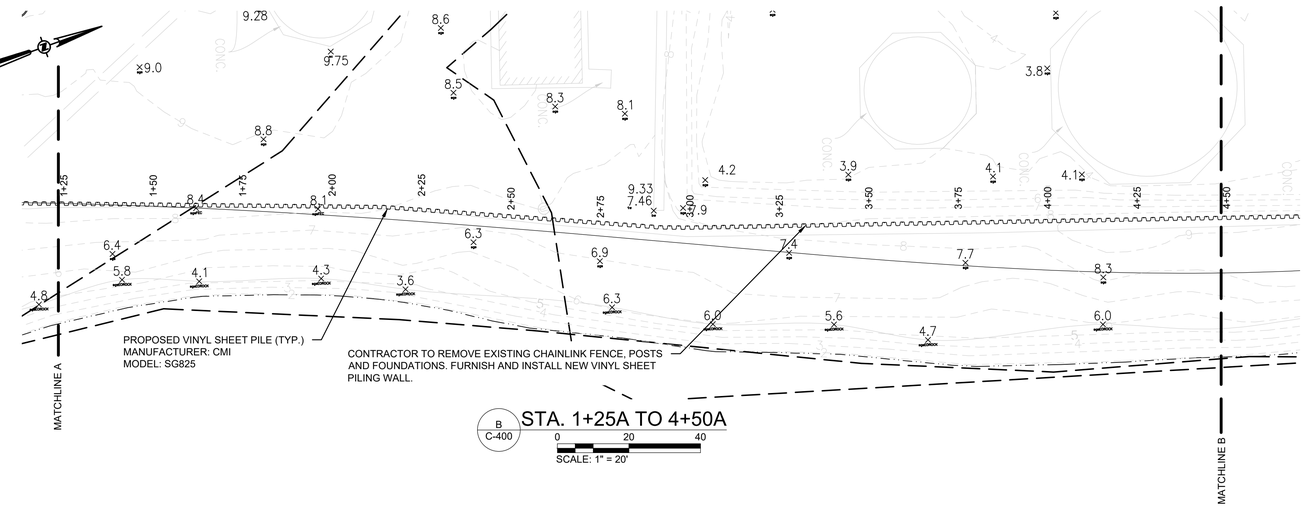


A C-400 STA. 0+00A TO 1+25A

0 20 40

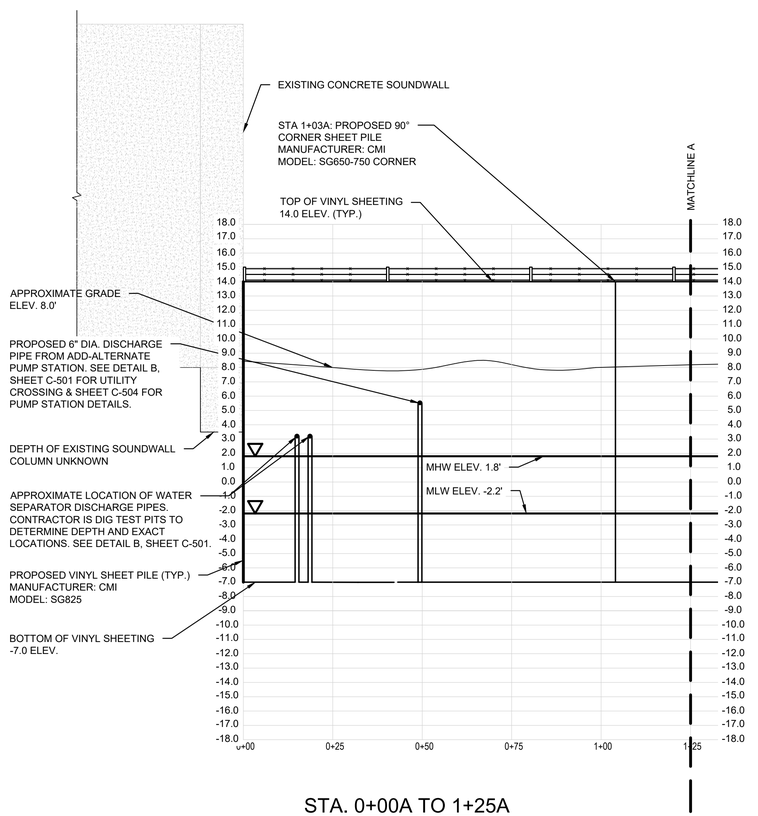
SCALE: 1" = 20'



B C-400 STA. 1+25A TO 4+50A

0 20 40

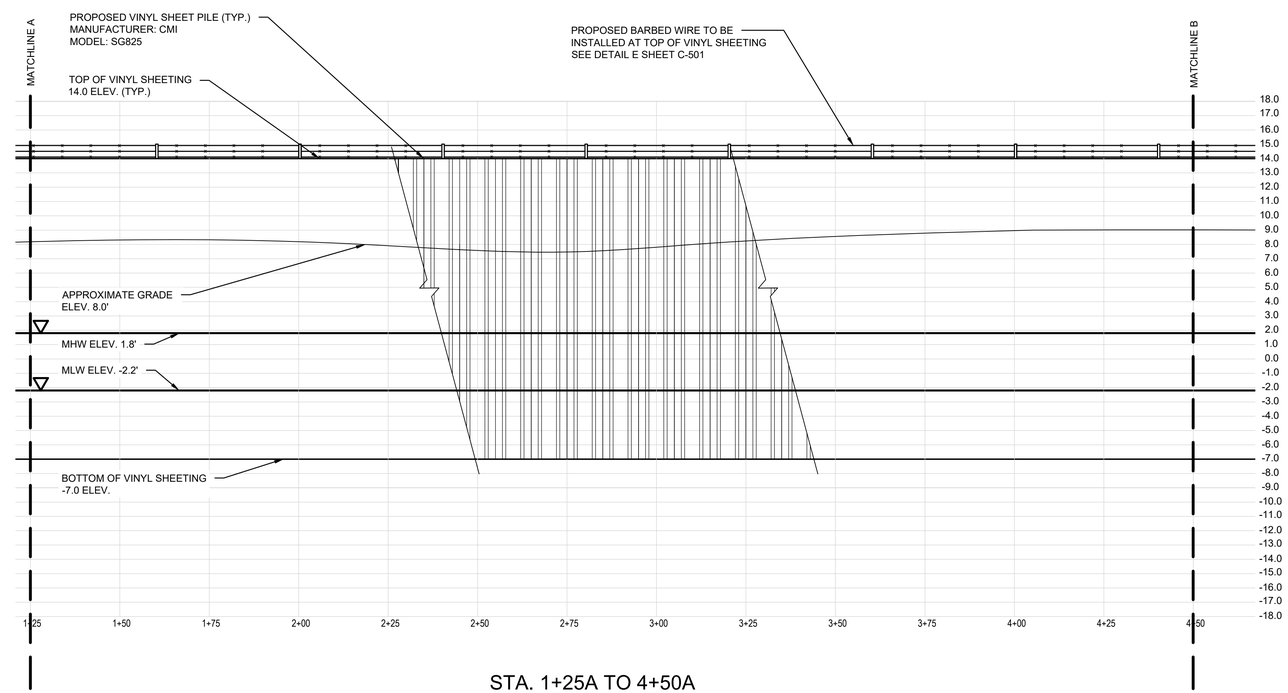
SCALE: 1" = 20'



STA. 0+00A TO 1+25A

HORIZONTAL: 0 20 40 SCALE: 1" = 20'

VERTICAL: 0 5 10 SCALE: 1" = 5'



STA. 1+25A TO 4+50A

HORIZONTAL: 0 20 40 SCALE: 1" = 20'

VERTICAL: 0 5 10 SCALE: 1" = 5'

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CONSULTANTS

Number	Revision Description	Revision Date
7		
6		
5		
4		
3		
2		
1		

Designed By: SMR/GMG	Date Submitted: 12/28/2018
Drawn By: SMR/GMG	Date Created: 10/01/2018
Approved By: GR	Scale: AS SHOWN

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NASSAU COUNTY, NEW YORK

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FLOOD PROTECTION PROFILE A STA. 0+00 TO 4+50

Drawing Number:
C-400

Sheet 5 of 14

PWGC Project Number: FPT1802

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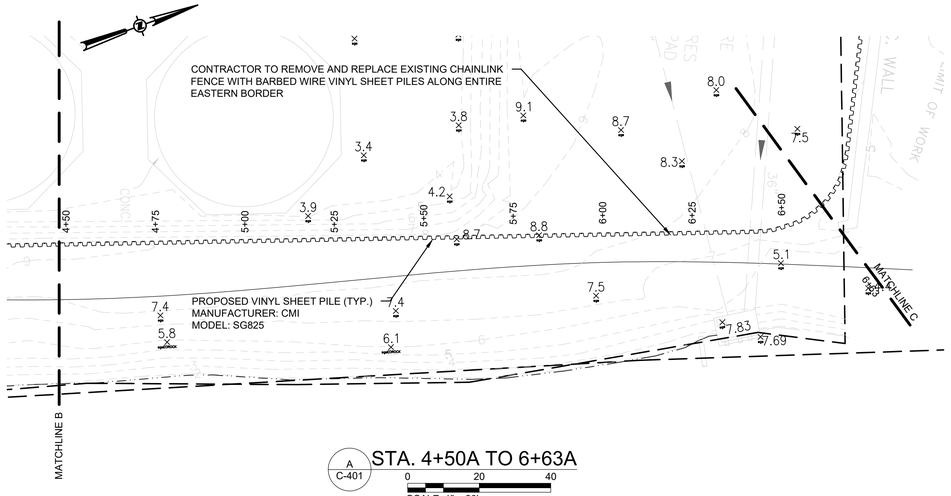
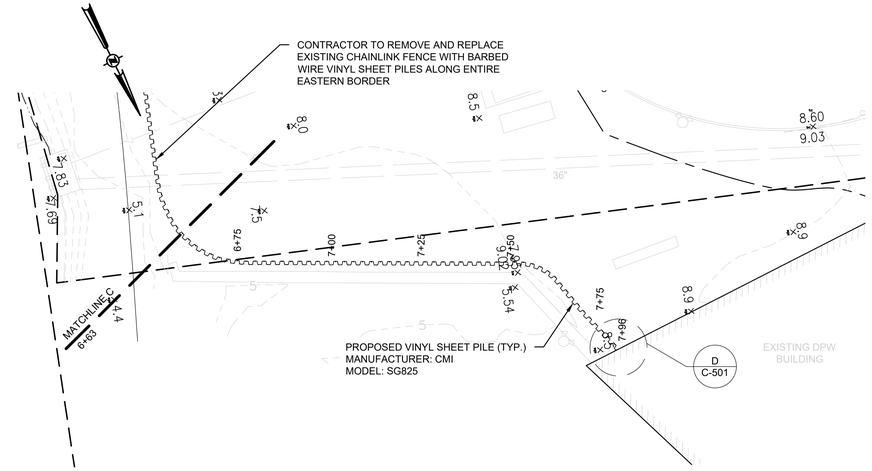


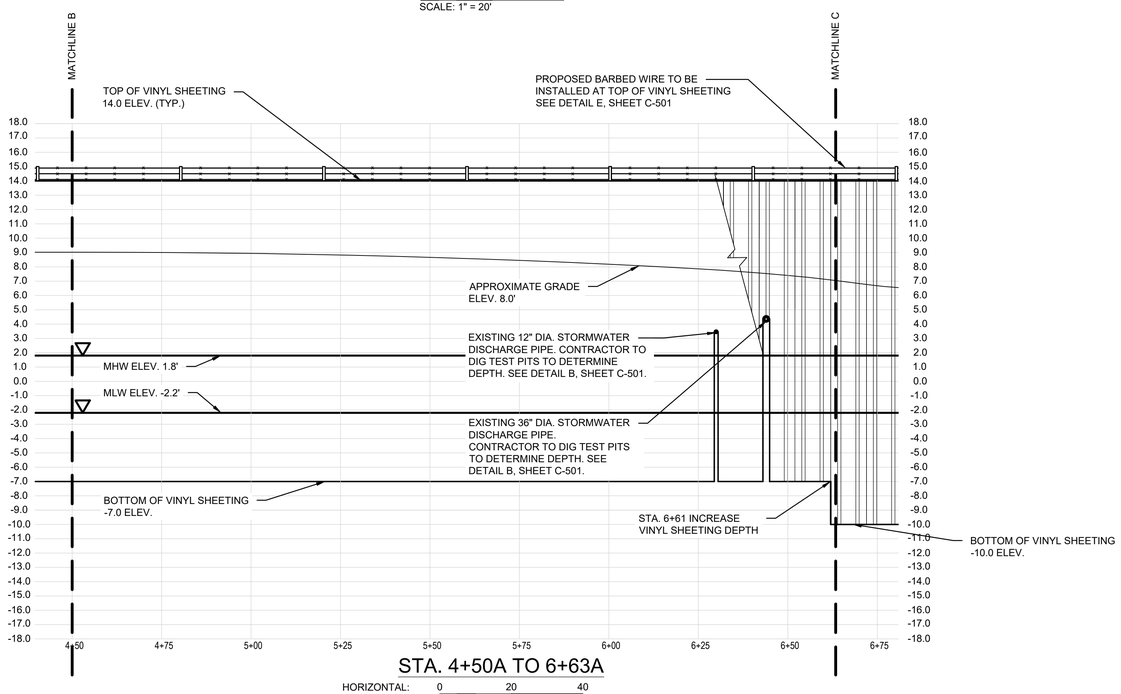
A C-401 STA. 4+50A TO 6+63A

SCALE: 1" = 20'



A C-401 STA. 6+63A TO 7+96A

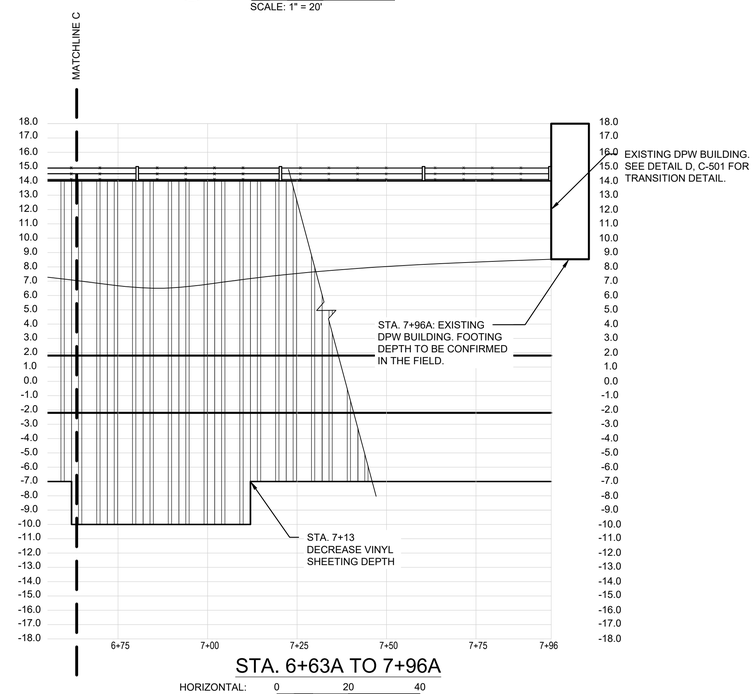
SCALE: 1" = 20'



STA. 4+50A TO 6+63A

HORIZONTAL: 0 20 40
SCALE: 1" = 20'

VERTICAL: 0 5 10
SCALE: 1" = 5'



STA. 6+63A TO 7+96A

HORIZONTAL: 0 20 40
SCALE: 1" = 20'

VERTICAL: 0 5 10
SCALE: 1" = 5'

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CONSULTANTS

Number	Revison Description	Revision Date
7		
6		
5		
4		
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2		
1		

Designed By: SMR/GMG	Date Submitted: 12/28/2018
Drawn By: SMR/GMG	Date Created: 10/01/2018
Approved By: GR	Scale: AS SHOWN

Client:
VILLAGE OF FREEPORT
46 NORTH OCEAN AVENUE
FREEPORT, NEW YORK 11520

Project:
PROTECTION OF POWER PLANT NO. 2

Project Address:
289 BUFFALO AVENUE
VILLAGE OF FREEPORT
NASSAU COUNTY, NEW YORK

County Tax Map Number:
Contract Number:
Regulatory Reference Number:

Title of Drawing:
FLOOD PROTECTION PROFILE A STA. 4+50 TO 7+96

Drawing Number:
C-401

Sheet 6 of 14

PWGC Project Number:
FPT1802

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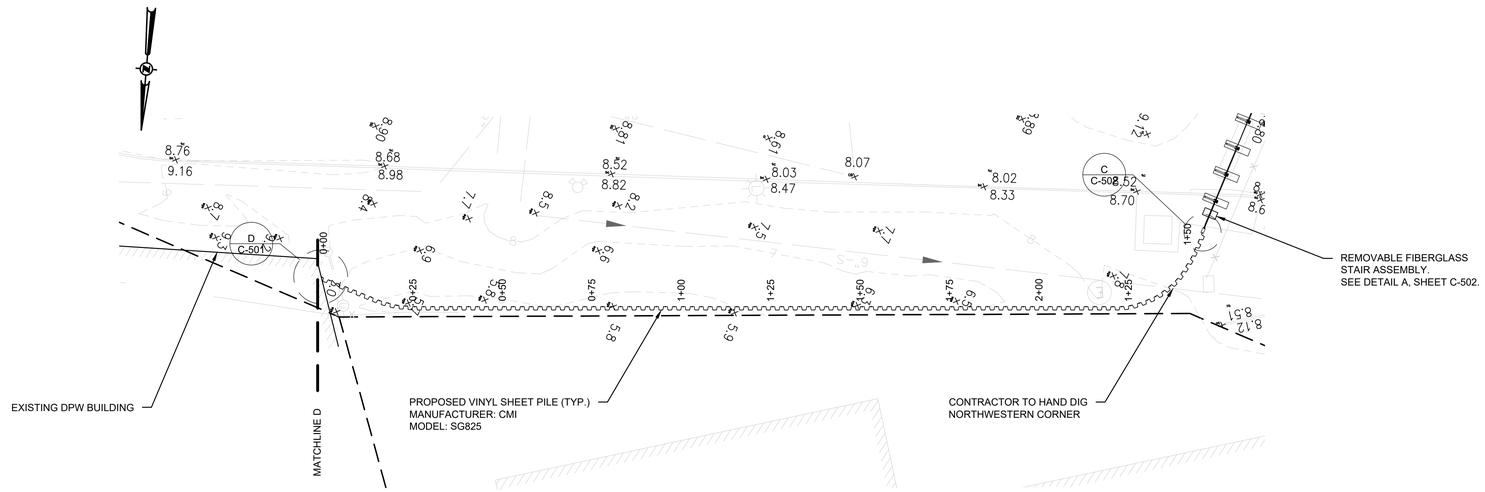
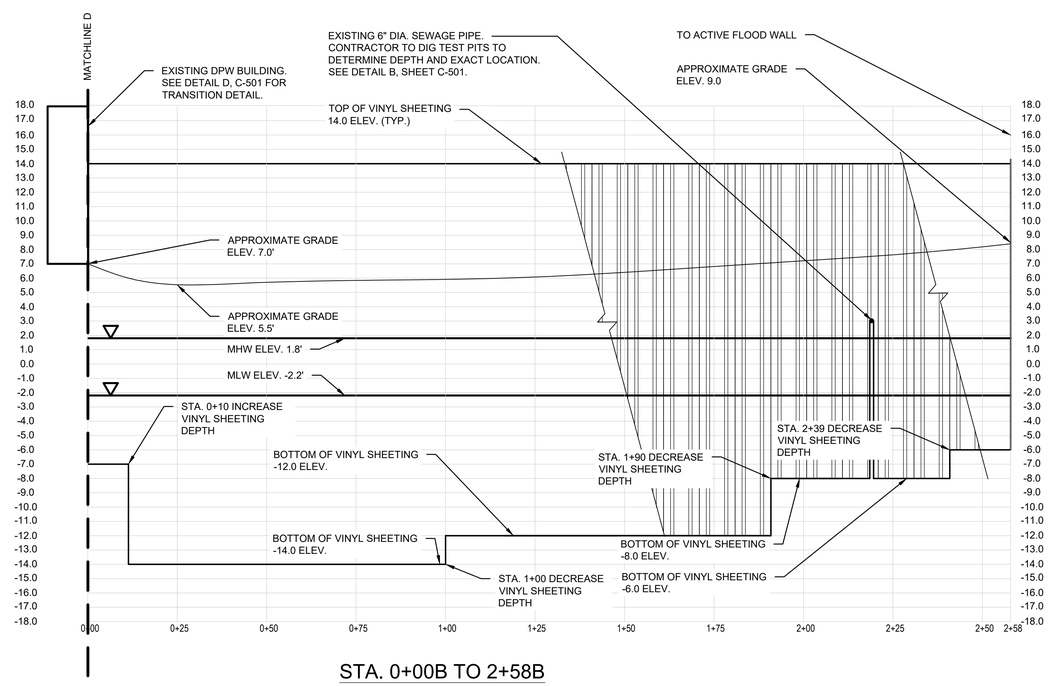


A
C-402

STA. 0+00B TO 2+58B

0 20 40
SCALE: 1" = 20'



STA. 0+00B TO 2+58B

HORIZONTAL: 0 20 40
SCALE: 1" = 20'

VERTICAL: 0 5 10
SCALE: 1" = 5'

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Title of Drawing:

FLOOD PROTECTION PROFILE B STA. 0+00 TO 2+58

Drawing Number:
C-402

Sheet 7 of 14

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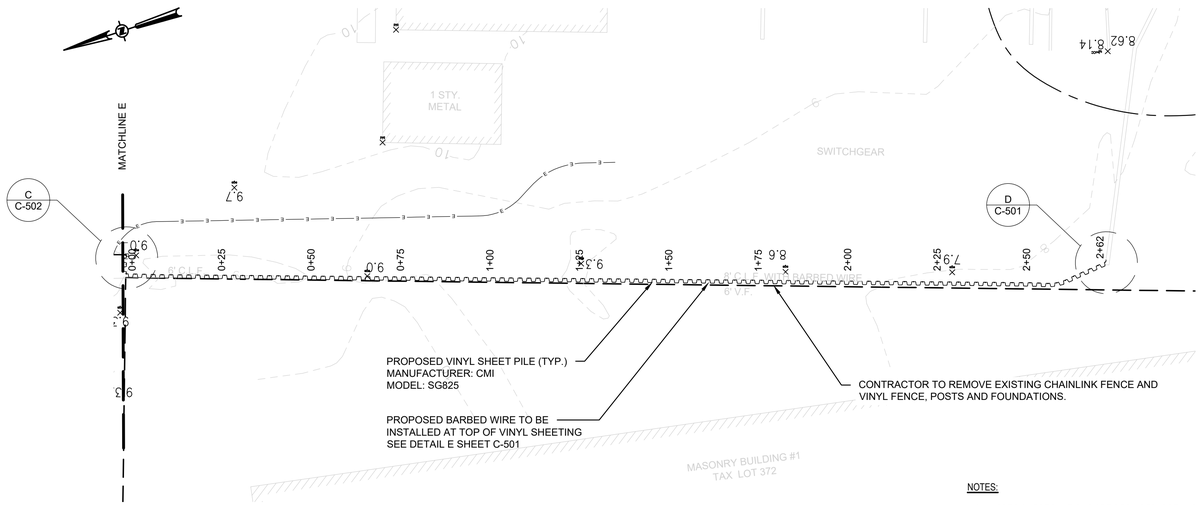


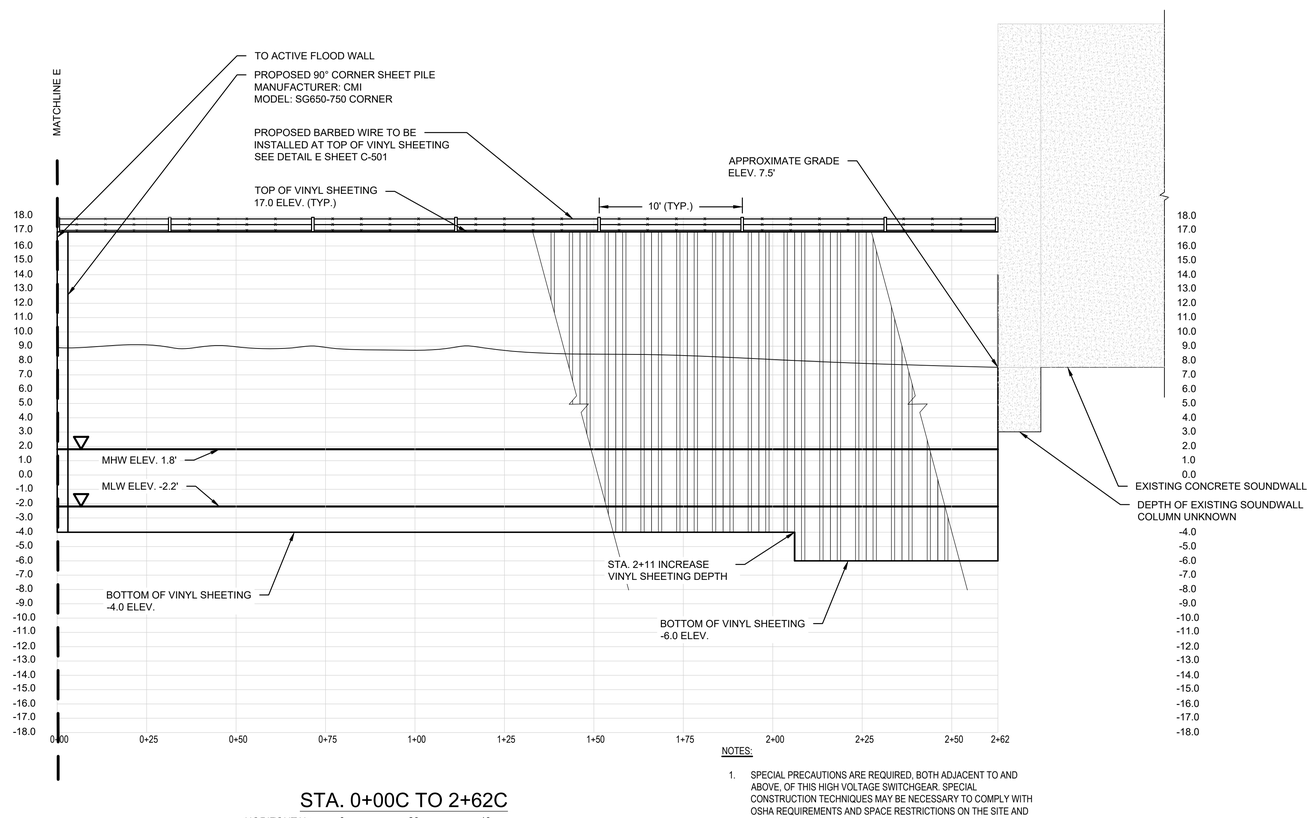
NOTES:

1. SPECIAL PRECAUTIONS ARE REQUIRED, BOTH ADJACENT TO AND ABOVE, THE HIGH VOLTAGE SWITCHGEAR. SPECIAL CONSTRUCTION TECHNIQUES MAY BE NECESSARY TO COMPLY WITH OSHA REQUIREMENTS AND SPACE RESTRICTIONS ON THE SITE AND WILL BE SOLELY AT THE EXPENSE OF THE CONTRACTOR.

A
C-403

STA. 0+00C TO 2+62C

0 20 40
SCALE: 1" = 20'



NOTES:

1. SPECIAL PRECAUTIONS ARE REQUIRED, BOTH ADJACENT TO AND ABOVE, OF THIS HIGH VOLTAGE SWITCHGEAR. SPECIAL CONSTRUCTION TECHNIQUES MAY BE NECESSARY TO COMPLY WITH OSHA REQUIREMENTS AND SPACE RESTRICTIONS ON THE SITE AND WILL BE SOLELY AT THE EXPENSE OF THE CONTRACTOR.

STA. 0+00C TO 2+62C

HORIZONTAL: 0 20 40
SCALE: 1" = 20'

VERTICAL: 0 5 10
SCALE: 1" = 5'

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Title of Drawing:
FLOOD PROTECTION PROFILIE C STA. 0+00 TO 2+62

Drawing Number:
C-403

Sheet 8 of 14

PWGC Project Number:
FPT1802

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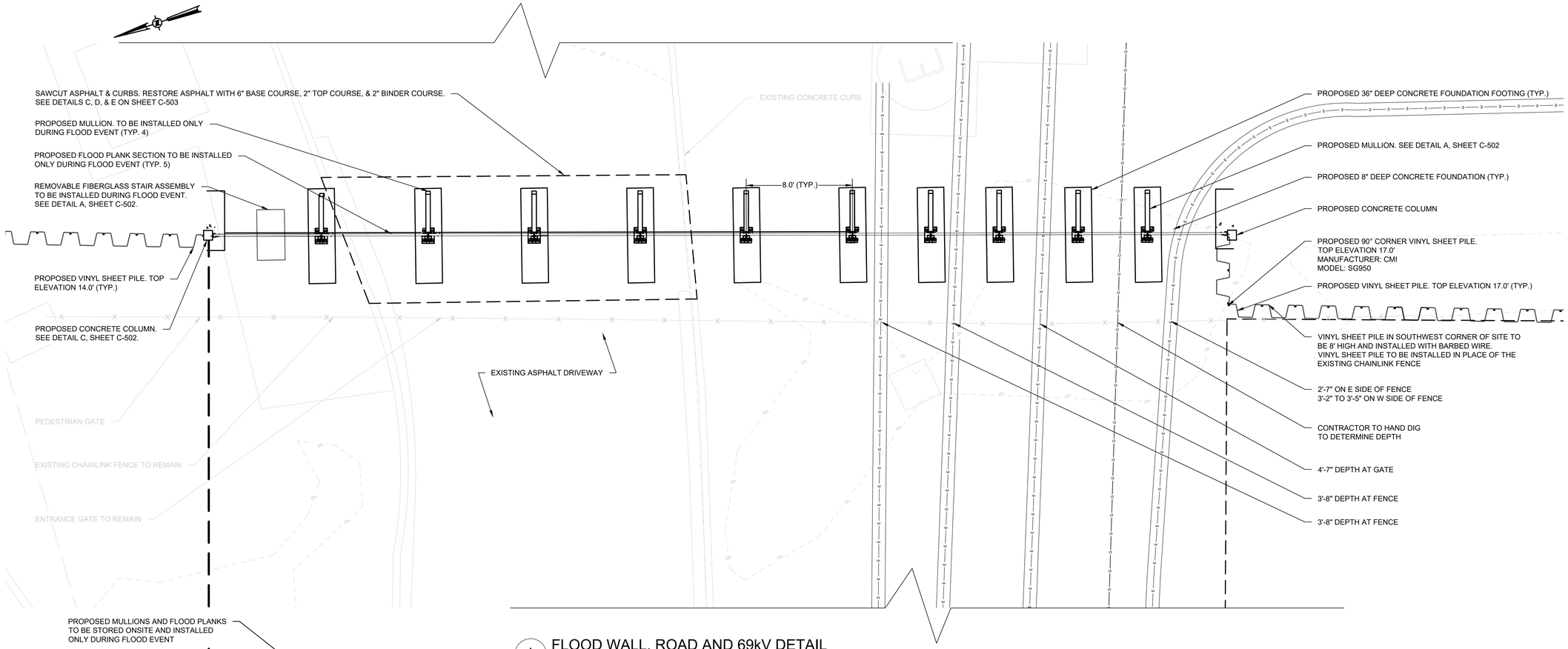
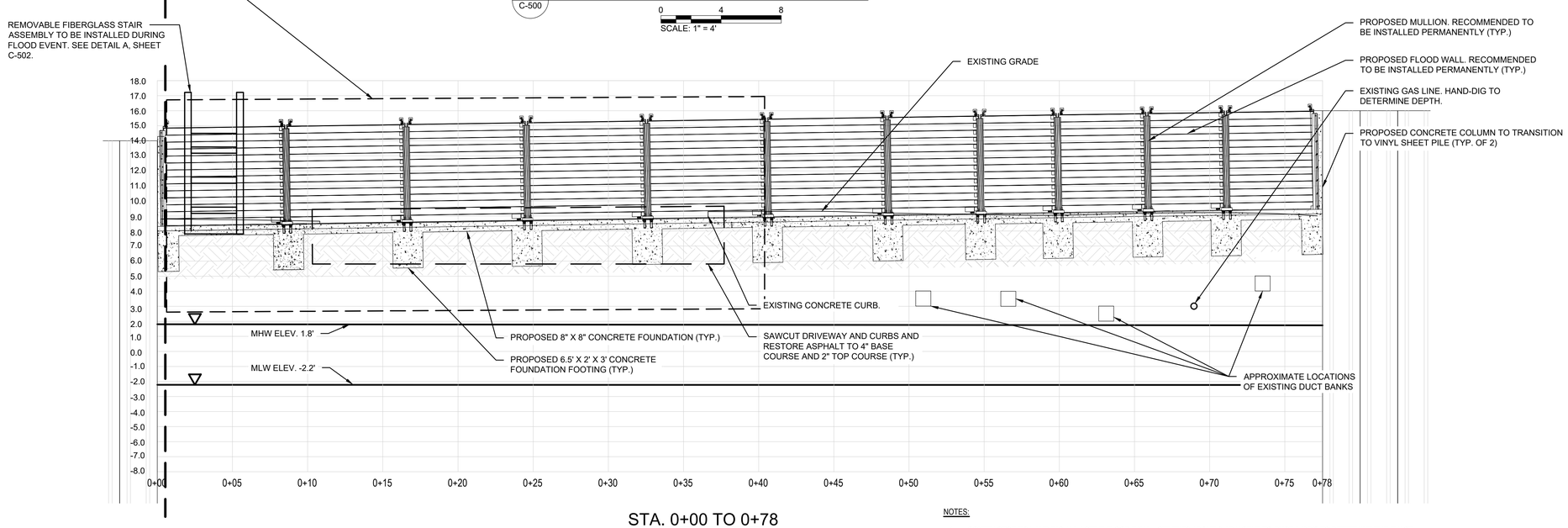


A
C-500

FLOOD WALL, ROAD AND 69kV DETAIL

0 4 8
SCALE: 1" = 4'



STA. 0+00 TO 0+78

0 4 8
SCALE: 1" = 4'

NOTES:

1. CONTRACTOR TO HAND DIG ALL ACTIVE FLOOD WALL ACTIVITIES ABOVE & ADJACENT TO DUCT BANKS TO DETERMINE THE EXACT DISTANCES BETWEEN MULLIONS WITH THE ENGINEER'S APPROVAL.
2. LOCATIONS OF DUCT BANKS WERE TAKEN OFF PREVIOUS PLANS. CONTRACTOR SHALL HAND-DIG, VERIFY ALL LOCATIONS, AND SUBMIT SHOP DRAWINGS.

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Title of Drawing:
ACTIVE FLOOD WALL PARTIAL SITE PLAN

Drawing Number:
C-500

Sheet 9 of 14

PWGC Project Number:
FPT1802

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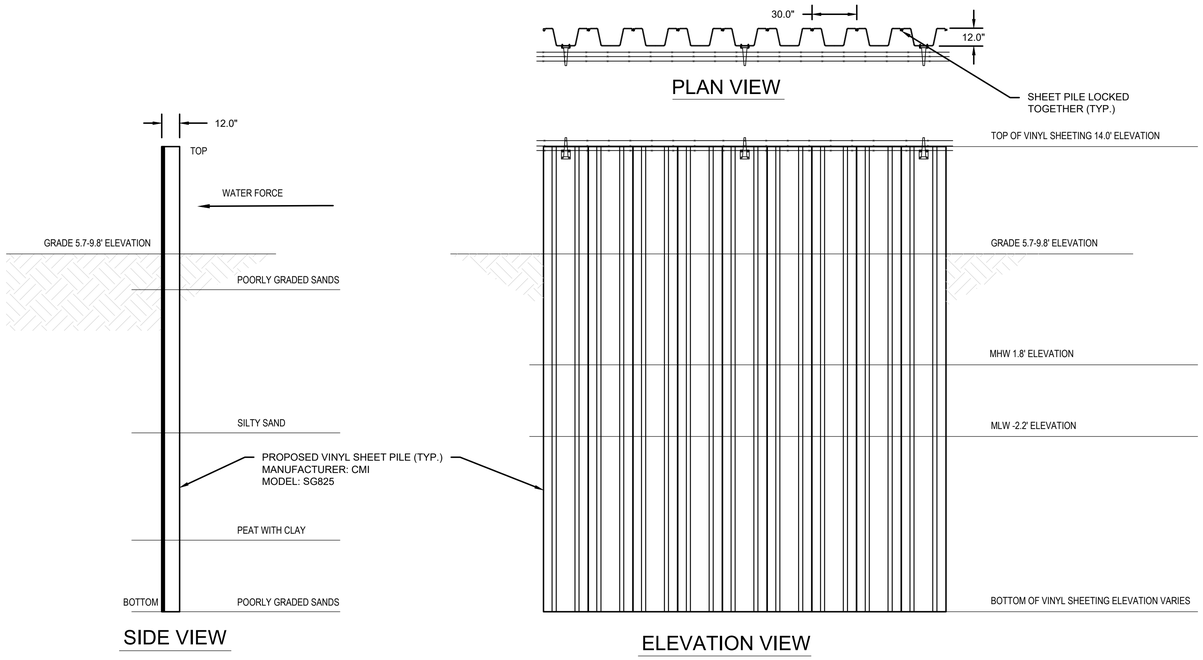
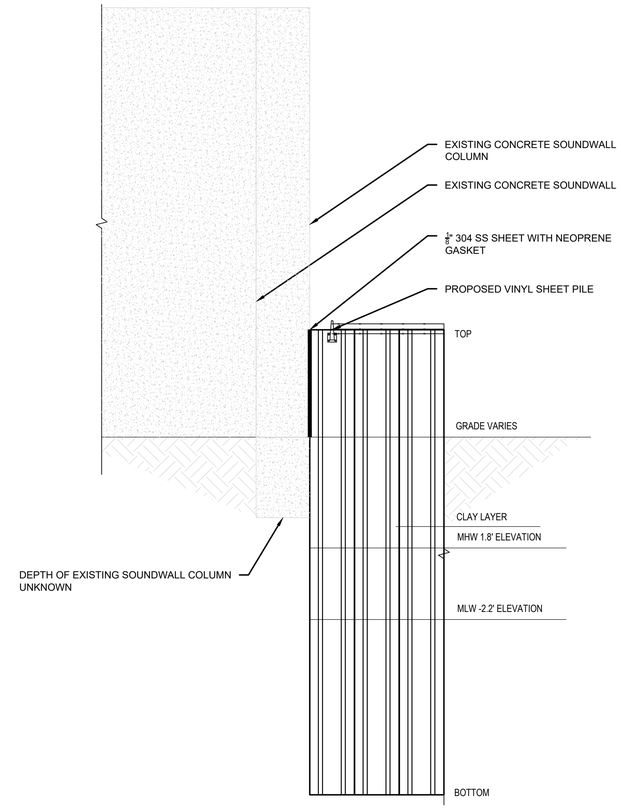


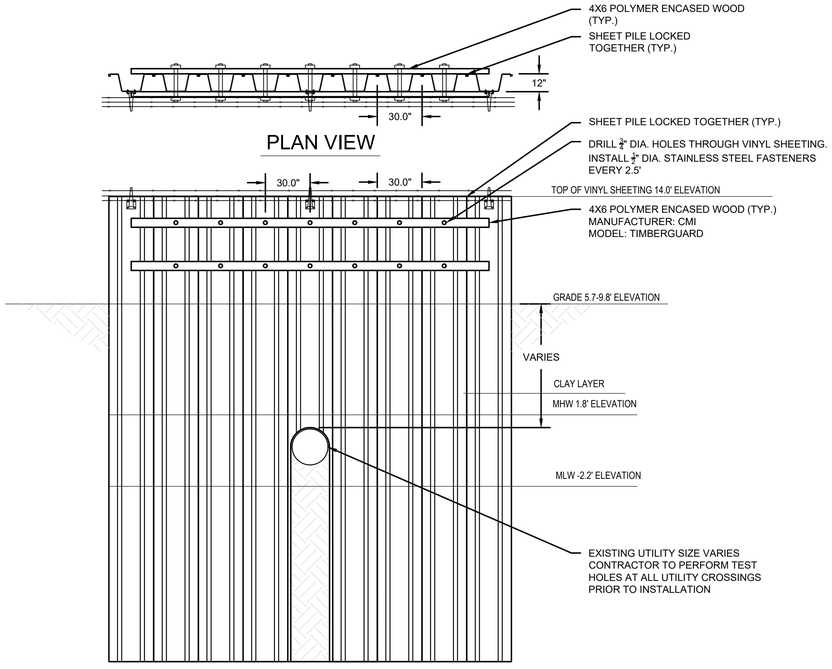
A / C-501 VINYL SHEET PILE, TYPICAL DETAIL

SCALE: 1/4" = 1'-0"



C / C-501 VINYL SHEET PILE & SOUNDWALL DETAIL

SCALE: 1/4" = 1'-0"

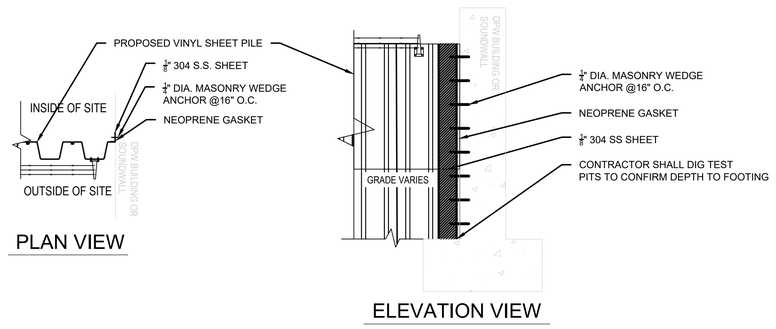


B / C-501 VINYL SHEET PILE, UTILITY CROSSING DETAIL

SCALE: 1/4" = 1'-0"

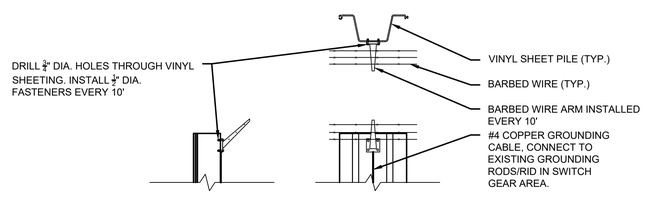
NOTES:

1. CONTRACTOR TO INSTALL RIP-RAP IF WALERS ARE NOT ADEQUATE PER APPROVAL OF ENGINEER.



D / C-501 VINYL SHEETING TRANSITION DETAIL

SCALE: N.T.S.



E / C-501 BARBED WIRE DETAIL

SCALE: N.T.S.

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Title of Drawing:
VINYL SHEET PILE DETAILS

Drawing Number:
C-501

Sheet 10 of 14

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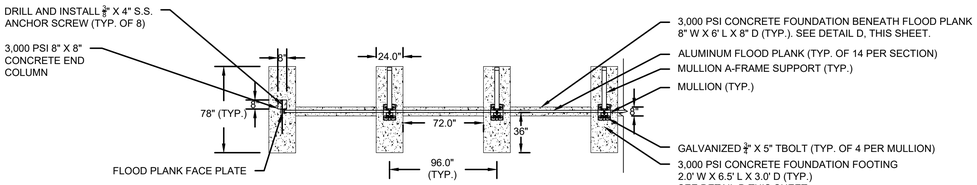
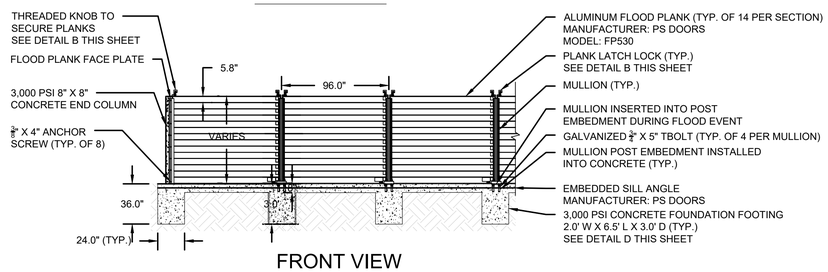


PLAN VIEW



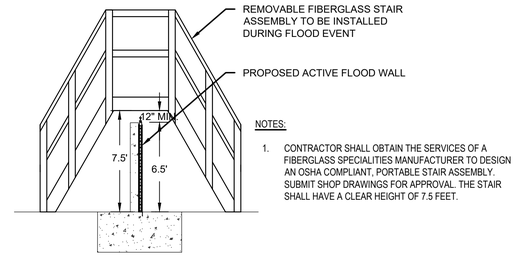
FRONT VIEW

NOTES:

1. CONTRACTOR TO HAND DIG ALL ACTIVE FLOOD WALL ACTIVITIES ABOVE & ADJACENT TO DUCT BANKS TO DETERMINE EXACT DISTANCES BETWEEN MULLIONS WITH THE ENGINEER'S APPROVAL.
2. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF ACTIVE FLOOD WALL FOOTINGS & INSTALLATION AFTER TEST HOLES ARE PERFORMED & LOCATIONS OF UNDERGROUND UTILITIES ARE VERIFIED.

A / C-502 FLOOD PLANKS, TYPICAL DETAIL

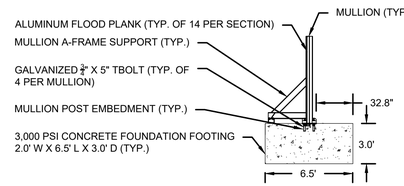
SCALE: 3/16" = 1'-0"



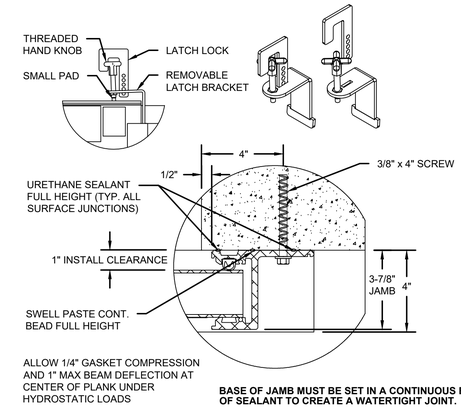
NOTES:

1. CONTRACTOR SHALL OBTAIN THE SERVICES OF A FIBERGLASS SPECIALITIES MANUFACTURER TO DESIGN AN OSHA COMPLIANT, PORTABLE STAIR ASSEMBLY. SUBMIT SHOP DRAWINGS FOR APPROVAL. THE STAIR SHALL HAVE A CLEAR HEIGHT OF 7.5 FEET.

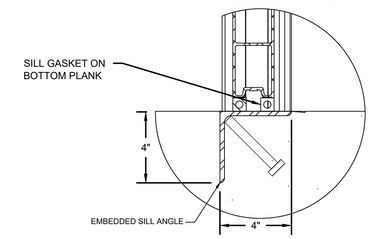
SIDE VIEW WITH STAIR ASSEMBLY



SIDE VIEW

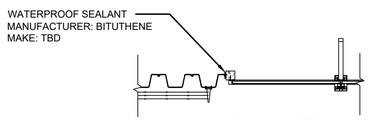


BASE OF JAMB MUST BE SET IN A CONTINUOUS BED OF SEALANT TO CREATE A WATERTIGHT JOINT.

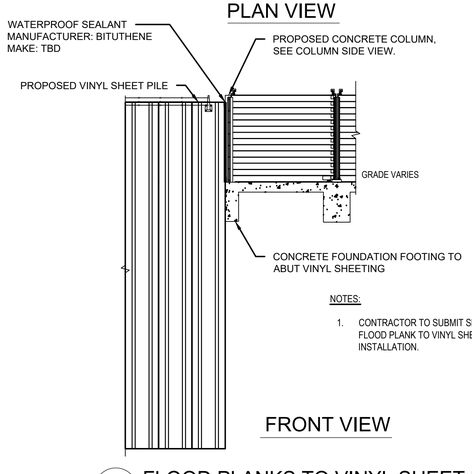


B / C-502 FLOOD PLANKS JAMB, LATCH AND SILL DETAIL

SCALE: N.T.S.



PLAN VIEW



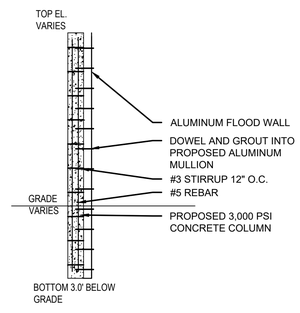
NOTES:

1. CONTRACTOR TO SUBMIT SHOP DRAWING OF FLOOD PLANK TO VINYL SHEET PILE TRANSITION INSTALLATION.

FRONT VIEW

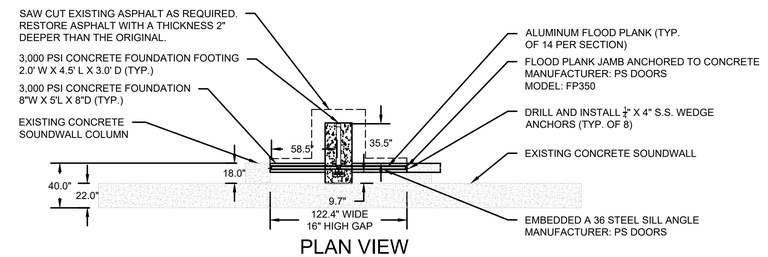
C / C-502 FLOOD PLANKS TO VINYL SHEET PILE TRANSITION DETAIL

SCALE: 3/16" = 1'-0"

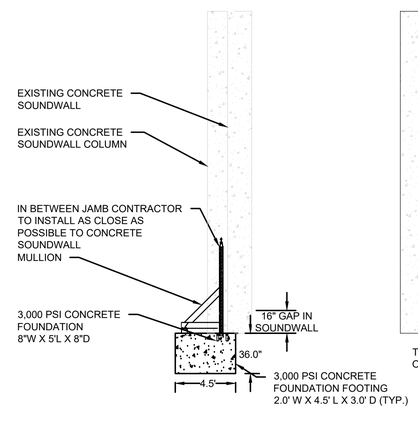


COLUMN SIDE VIEW

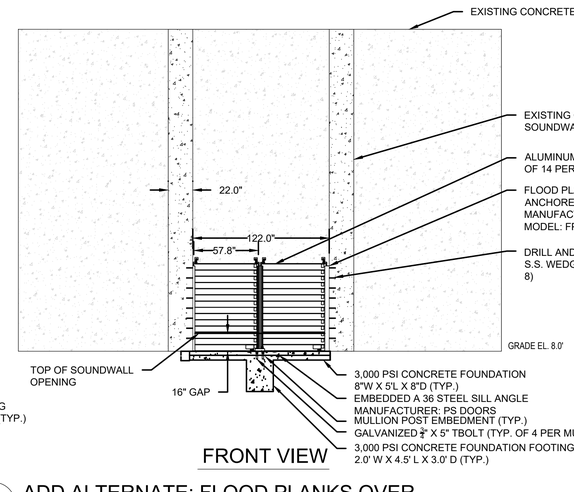
SCALE: N.T.S.



PLAN VIEW



SIDE VIEW



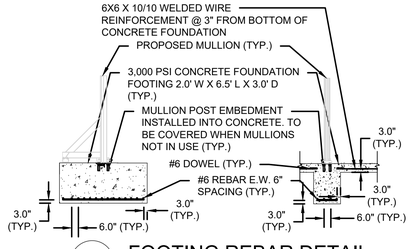
FRONT VIEW

F / C-502 ADD ALTERNATE: FLOOD PLANKS OVER SOUNDWALL GAP DETAIL

SCALE: 3/16" = 1'-0"

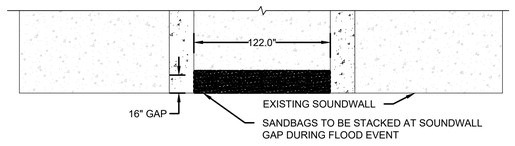
NOTES:

1. CONTRACTOR TO DEMOLISH EXISTING CURBS UNDER THE RECTANGULAR GAP AND INSTALL CONCRETE FOUNDATION



D / C-502 FOOTING REBAR DETAIL

SCALE: 3/16" = 1'-0"



E / C-502 SANDBAGS OVER SOUNDWALL GAP DETAIL

SCALE: 3/16" = 1'-0"

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ACTIVE FLOOD WALL DETAILS

Drawing Number:
C-502

Sheet 11 of 14

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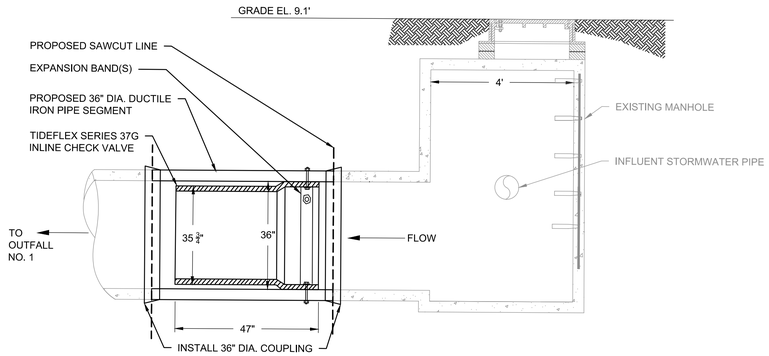
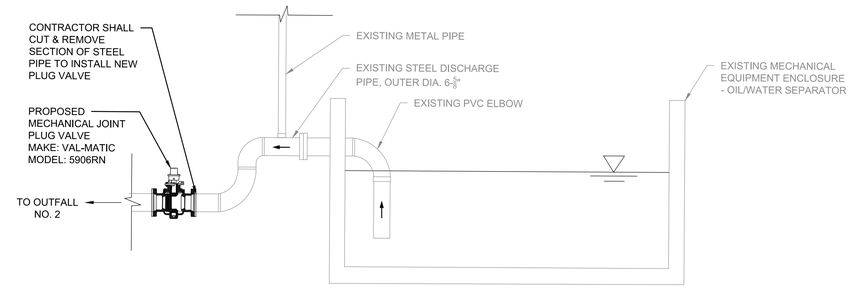


A C-503 OUTFALL NO. 1 BACK FLOW PREVENTION - IN-LINE CHECK VALVE DETAIL

SCALE: 1/2" = 1'-0"

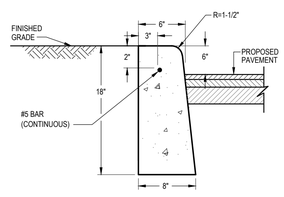
NOTES:
1. CONTRACTOR SHALL DIG TEST HOLES TO CONFIRM INVERTS OF EXISTING PIPE.
2. CONTRACTOR TO CONFIRM PIPE INNER DIA. PRIOR TO CHECK VALVE INSTALLATION.
3. CONTRACTOR SHALL EXCAVATE, SAWCUT SECTION OF EXISTING CONCRETE PIPE, & INSTALL NEW DUCTILE IRON PIPE SECTION WITH TIDEFLEX VALVE INSTALLED. FURNISH & INSTALL TRANSITION FITTINGS AS NECESSARY.
4. FOUR (4) PRE-DRILLED HOLES ARE PROVIDED IN EACH EXPANSION CLAMP. THE CLAMPS SHALL BOTH BE PINNED PRIOR TO INSTALLATION OF THE DUCTILE IRON PIPE SECTION INTO THE EXISTING DRAINAGE PIPE. HOLES SHALL BE DRILLED THROUGH THE VALVE AND NEW PIPE. A BOLT SHALL BE RUN THROUGH & SECURED WITH A NUT.



B C-503 OUTFALL NO. 2 BACK FLOW PREVENTION - MECHANICAL JOINT PLUG VALVE

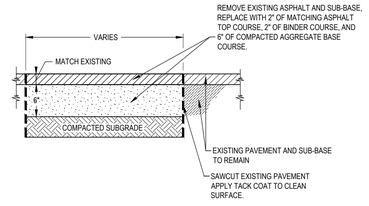
SCALE: N.T.S.

NOTES:
1. CONTRACTOR TO CONFIRM PIPE DIAMETER PRIOR TO CHECK VALVE INSTALLATION.
2. METAL PIPE TO BE CUT AND WELDED AS NECESSARY.



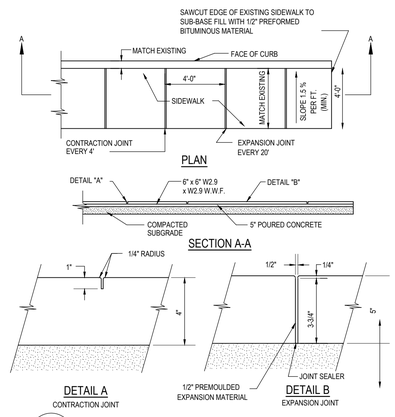
C C-503 CURB REPLACEMENT DETAIL

SCALE: N.T.S.



D C-503 PAVEMENT PATCH DETAIL

SCALE: N.T.S.



E C-503 SIDEWALK REPLACEMENT DETAIL

SCALE: N.T.S.

NOTE:
SIDEWALK AND RAMP TO BE ADA COMPLIANT. REFER TO ADA REQUIREMENTS AND NEW YORK STATE DEPARTMENT OF TRANSPORTATION, SECTION 608-01 SIDEWALK CURB RAMP DETAILS.

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E-mail: INFO@PWGROSSER.COM

CONSULTANTS

Number	Revision Description	Revision Date
7		
6		
5		
4		
3		
2		
1		

Designed By	SMR/GMG	Date Submitted	12/28/2018
Drawn By	SMR/GMG	Date Created	10/01/2018
Approved By	GR	Scale	AS SHOWN

Client:
VILLAGE OF FREEPORT
46 NORTH OCEAN AVENUE
FREEPORT, NEW YORK 11520

Project:
PROTECTION OF POWER PLANT NO. 2

Project Address:
289 BUFFALO AVENUE
VILLAGE OF FREEPORT
NASSAU COUNTY, NEW YORK

County Tax Map Number:
Contract Number:
Regulatory Reference Number:

Title of Drawing:
BACKFLOW VALVE & PAVEMENT DETAILS

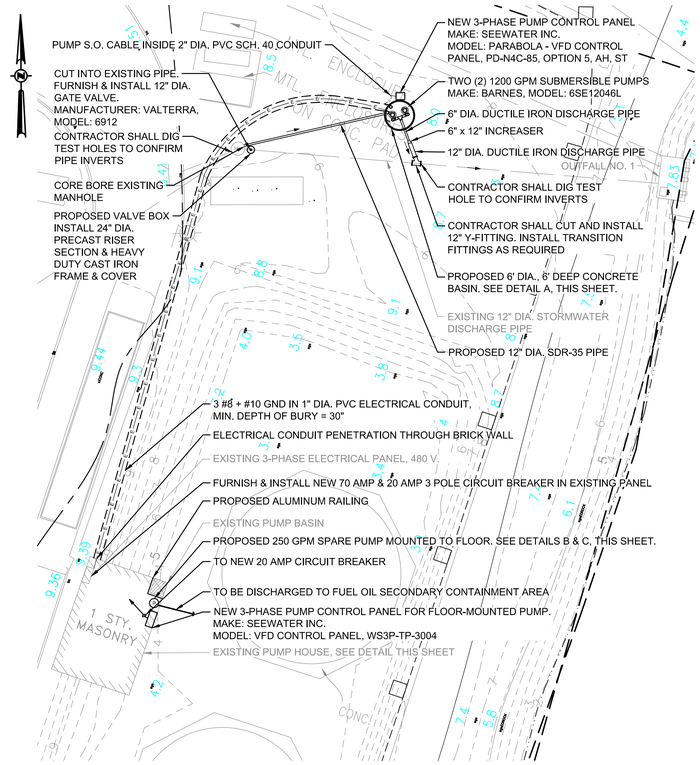
Drawing Number:
C-503

Sheet 12 of 14

PWGC Project Number:
FPT1802

Unauthorized alteration or addition to this drawing and related documents is a violation of Section 7209 of the New York State Education Law

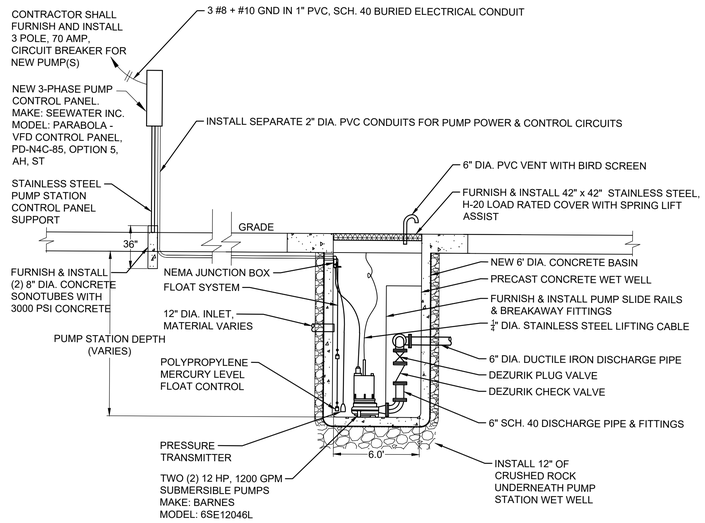
PWGC FILE NAME: J:\Projects EL\FPT\FPT1802-Freeport Electric\PROJDOC\Construction Drawings\FPT1802 - Pre Bid (12-06-18) - C503, C504 Aug (C-503)
PLOT DATE/TIME: Dec 28, 2018-5:32pm By: svalencia



NORTHEAST PUMP STATIONS - PLAN VIEW

0 20 40
SCALE: 1" = 20'

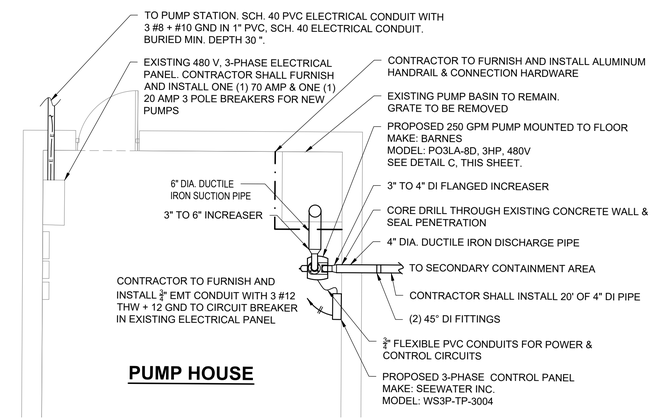
NOTES:
1. CONTRACTOR TO SUBMIT DETAIL SHOWING WATER TYPE PIPE CONNECTION.
2. ALL PROPOSED INVERTS ARE TO BE DETERMINED AFTER VERIFICATION OF EXISTING STORM PIPE INVERTS. INVERTS ARE TO BE CONFIRMED ON SHOP DRAWINGS.
3. RESTORE GRASS AREAS WITH 2" OF TOPSOIL & SEED.



A C-504

TYPICAL DUPLEX PUMP STATION - SECTION DETAIL

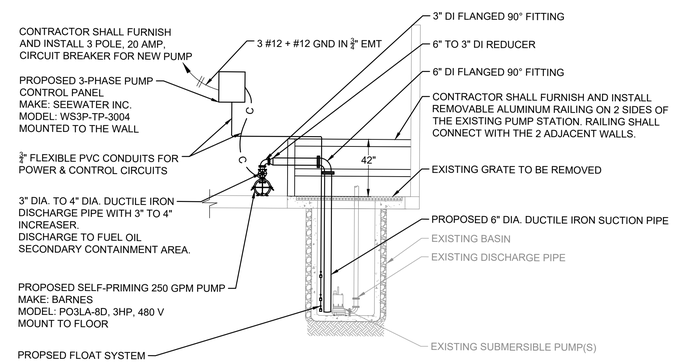
SCALE: N.T.S.



B C-504

PUMP HOUSE - PLAN VIEW

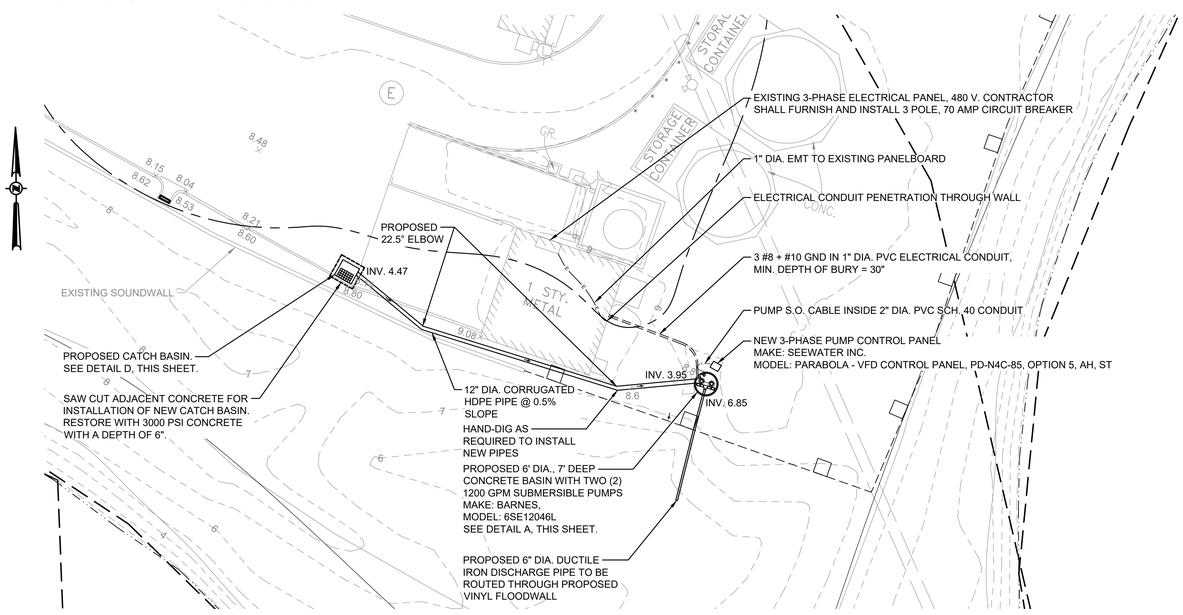
SCALE: N.T.S.



C C-504

250 GPM PUMP - SECTION DETAIL

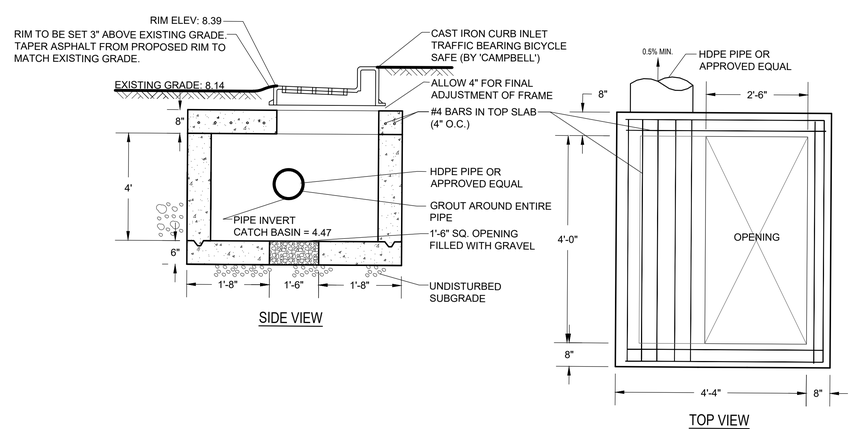
SCALE: N.T.S.



SOUTHEAST PUMP STATION - PLAN VIEW

NOTES:
1. RESTORE GRASS AREAS WITH 2" OF TOPSOIL & SEED.

0 20 40
SCALE: 1" = 20'



D C-504

STORMWATER CATCH BASIN DETAIL

SCALE: N.T.S.

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CONSULTANTS

Number	Revision Description	Revision Date
7		
6		
5		
4		
3		
2		
1		

Designed By	SMR/GMG	Date Submitted	12/28/2018
Drawn By	SMR/GMG	Date Created	10/01/2018
Approved By	GR	Scale	AS SHOWN

Client:
VILLAGE OF FREEPORT
46 NORTH OCEAN AVENUE
FREEPORT, NEW YORK 11520

Project:
PROTECTION OF POWER PLANT NO. 2

Project Address:
289 BUFFALO AVENUE
VILLAGE OF FREEPORT
NASSAU COUNTY, NEW YORK

County Tax Map Number: | Contract Number:
Regulatory Reference Number:

Title of Drawing:
STORMWATER PUMP DETAILS

Drawing Number:
C-504

Sheet 13 of 14

PWGC Project Number:
FPT1802

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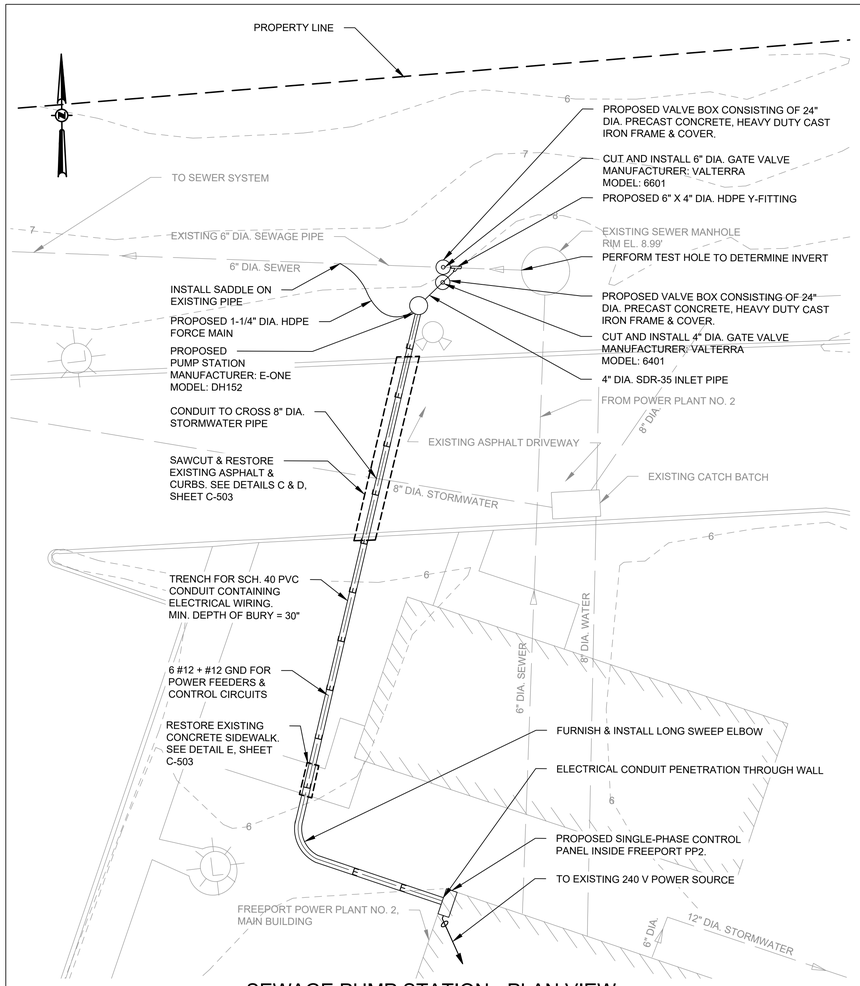
PWGC FILE NAME: J:\Projects E-I\FPT\FPT1802-Freeport Beach\-PROJ\ACD\Construction Drawings\FPT1802 - Plan Set (12-06-18) - C500-Leg (C-504)
PLOT DATE/TIME: Dec 6, 2018 - 3:24pm By: sradack



SEWAGE PUMP STATION - PLAN VIEW

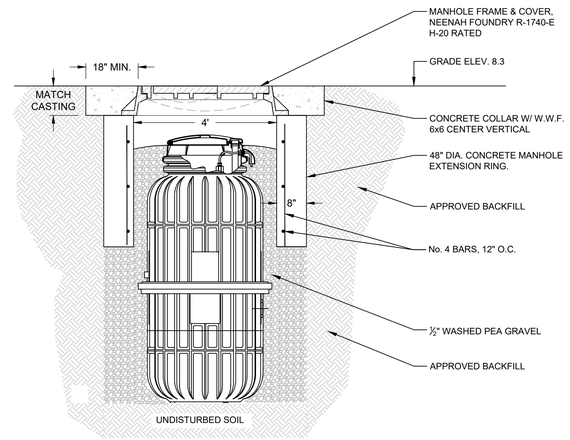
SCALE: 1" = 10'

NOTES:
1. CONTRACTOR TO SUBMIT DETAIL ON PIPE SADDLE CONNECTION.
2. CONTRACTOR TO SUBMIT SHOP DRAWING OF SEWER LINE BYPASS PLAN FOR INSTALLATION OF NEW WYE AND GATE VALVES.
3. CONTRACTOR TO FURNISH AND INSTALL RISER SECTIONS ON THE E/ONE PUMP STATIONS TO BRING COVER TO WITHIN 2 FEET OF FINISHED GRADE.

FUJI CONTROL PANEL DETAIL

SCALE: NTS

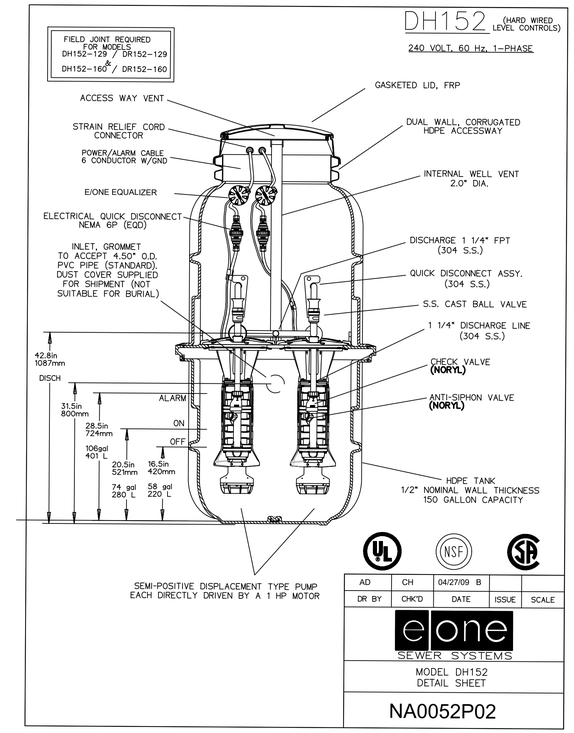
PIN	FUNCTION	2000S	EXTREME
1	MANUAL RUN	RED	BROWN
2	L1	BLACK	RED
3	L2	WHITE	BLACK
4	GND	GREEN	GRN/YEL
5	ALARM FEED	ORANGE	YELLOW
6	ALARM RETURN	BLUE	BLUE



A C-506

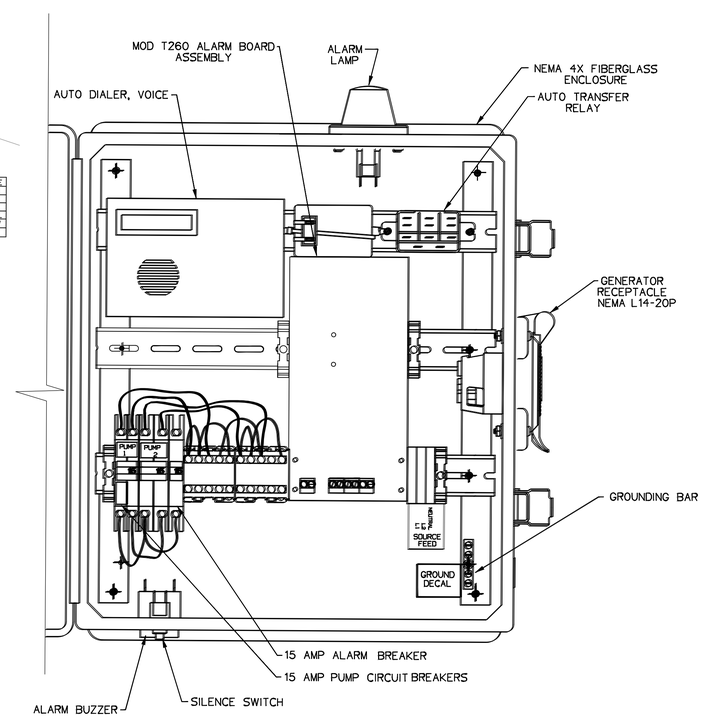
SEWAGE PUMP STATION CROSS-SECTION

SCALE: N.T.S.



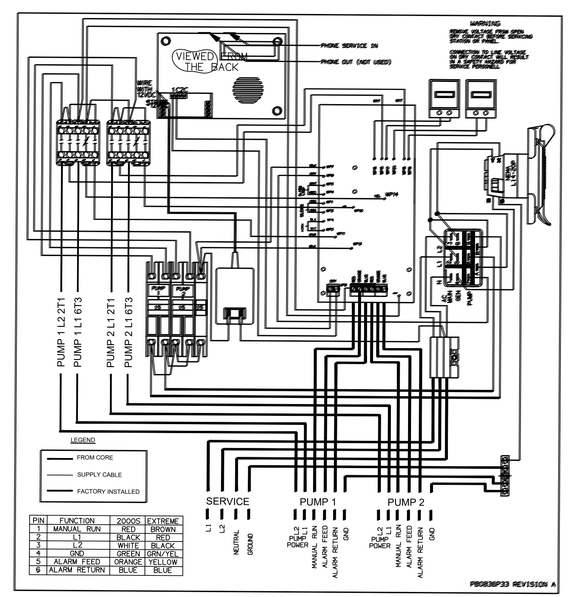
SEWAGE PUMP DETAIL

SCALE: N.T.S.



CONTROL PANEL DETAIL

SCALE: N.T.S.



PIN	FUNCTION	2000S	EXTREME
1	MANUAL RUN	RED	BROWN
2	L1	BLACK	RED
3	L2	WHITE	BLACK
4	GND	GREEN	GRN/YEL
5	ALARM FEED	ORANGE	YELLOW
6	ALARM RETURN	BLUE	BLUE

Model T260 DUPLEX ALTERNATING PANEL
PART NUMBER - TBD

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CONSULTANTS

Number	Revision Description	Revision Date
7		
6		
5		
4		
3		
2		
1		

Designed By	SMR/GMG	Date Submitted	12/28/2018
Drawn By	SMR/GMG	Date Created	10/01/2018
Approved By	GR	Scale	AS SHOWN

Client:
VILLAGE OF FREEPORT
46 NORTH OCEAN AVENUE
FREEPORT, NEW YORK 11520

Project:
PROTECTION OF POWER PLANT NO. 2

Project Address:
289 BUFFALO AVENUE
VILLAGE OF FREEPORT
NASSAU COUNTY, NEW YORK

County Tax Map Number:
Contract Number:
Regulatory Reference Number:

Title of Drawing:
SEWAGE PUMP STATION DETAILS

Drawing Number:
C-505

Sheet 14 of 14

PWGC Project Number:
FPT1802

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PWGC FILE NAME: J:\Projects 2\FPT\FPT1802\Freeport Electric PP2\ACD\Construction Drawings\FPT1802 - Plate Set (10-23-18) - DQS (ISO-22).dwg (C-505)
PLOT DATE/TIME: Dec 28, 2018-5:48pm By: ssolnick

EAF
ATTACHMENT 5
ENVIRONMENTAL
STANDARDS REVIEW

Freeport Power Plant No. 2 Resiliency
HUD Environmental Standards Review

Property Address: 289 Buffalo Ave, Village of Freeport, Nassau County, NY

Introduction

The purpose of this review is to ensure that the project complies with U.S. Department of Housing and Urban Development (HUD) environmental standards in relation to 24 CFR Part 58.5. Properties that are proposed for use in HUD programs "must be free of hazardous materials, contamination, toxic chemicals and gases, and radioactive substances, where a hazard could affect the health and safety of occupants or conflict with the intended utilization of the property."

A desktop review was performed to identify whether the FP PPII complies with the following criteria:

(i) is not listed on an U.S. Environmental Protection Agency (USEPA) Superfund National Priorities or Comprehensive Environmental Response Superfund National Priorities or Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) List, or equivalent State list;
(ii) is not located within 3,000 feet of a toxic or solid waste landfill site;
(iii) does not have an underground storage tank;
(iv) is not known or suspected to be contaminated by toxic chemicals or radioactive materials.

Summary of Findings

Records Review for the FP PPII

USEPA Records:

The USEPA NEPA Assist database identified the Freeport Power Plant II (FP PPII) as an air emissions inventory (EIS) and toxic release inventory (TRI) facility. The USEPA Enforcement and Compliance History Online (ECHO) database summary report (Attachment A) lists no violations and provides no data indicating that past uses of the FP PPII would have contaminated the FP PPII, or potentially adversely affect the occupants of the FP PPII. The USEPA NEPA Assist Facilities database identified several sites of potential environmental concern near the FP PPII (See Figure 1). However, a review of the associated USEPA ECHO reports did not indicate violations or provide data signifying impacts to the FP PPII.

New York State Department of Environmental Conservation (NYSDEC) Records:

The NYSDEC Environmental Facilities Navigator database (Figure 2) reports the FP PPII as an Air Title V Facility. The NYSDEC database identified air-permitted facilities, NYSDEC Voluntary Cleanup Program (VCP) sites, a NYSDEC State Superfund Program remediation site, toxic release inventory facility and one active solid waste facility (vehicle dismantling operations) near the FP PPII. This database does not identify any active solid waste facilities, toxic release inventory facilities, or remediation sites adjacent to the FP PPII. Based on review of the database records associated with these listings, it is unlikely that these regulated sites have affected the FP PPII. .

A search of the NYSDEC Bulk Storage database identified the FP PPII as a major oil storage facility (MOSF) and a chemical bulk storage facility (CBS). Tank information was not provided in the database records. (See Attachment B). A search of the Petroleum Bulk Storage database did not identify the FP PPII. These databases did not provide data that would indicate subsurface impacts to the FP PPII. .

The NYSDEC Spills database indicates multiple historical spills were reported for the FP PPII (See Attachment C). All of the spills have been closed by the NYSDEC. Based on the regulatory status of the historical spills (closed), it is unlikely that the historical spills have affected the FP PPII.

On-Site Subsurface Data

Coastlines surround the FP PPII perimeter. The grade elevations at FP PPII vary from elevation 6.0' on the northern portions to elevation 9.8' on the southern portions along the wall. Beyond the sound wall, the terrain has steep slopes until reaching the shoreline. In the 1940's and 1950's the land area at and around the existing power plant was allegedly filled with municipal solid waste (P.W. Grosser Consulting, 2018).

A geotechnical investigation was conducted in August 2018. The investigation utilized samples from five geotechnical soil borings to determine the soil's composition and structural capabilities at the location of the proposed floodwall. Groundwater was encountered from 6 to 11 feet below grade surface (BGS). The borings showed:

Stratum 1 – Brown Silty Sand: The overall trend of site soils encountered in the uppermost stratum between 0-10 feet below grade. Brown silty sands, roots, and topsoil are present near the surface.

Stratum 2 – Peat / Clay: Between 10-15 feet BGS, the brown silty sand is underlain by a layer of organic materials. These samples consisted of clay, peat, trace shells (B-2) and are consistent with marsh, bog, or swamp-like material.

Stratum 3 – Brown to Black, Medium to Coarse Sand & Gravel: The site soils encountered between 15-25 feet BGS consisted mainly of black or brown, medium to coarse sand and gravel. Soil collected adjacent to the soundwall (boring B-5) contained evidence of fill (crushed stone, wood debris).

Stratum 4 – Grey, Medium to Fine Sand: The overall trend of site soils encountered in the lowest sampled stratum between 25 to 27-feet BGS. Samples consisted of medium to fine-grained sands with trace amounts of gravel that are typical of upper glacial sand formations.

Based on the geotechnical soil boring data, it does not appear that the soil at the location of the proposed wall does not contain municipal waste.

Conclusion

Based on the review of the environmental databases identified above, no data was reviewed that would indicate that subsurface impacts would be encountered during the project construction ground disturbance activities.

Data Sources:

P.W. Grosser Consulting, Resiliency Study for Freeport Electric Power Plant 2, August 2018.

USEPA NEPA Assist database contains Hazardous Waste records contained in the RCRA, the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) for sites listed under the CERCLA (otherwise known as Superfund), EPA's Toxic Release Inventory Database (TRI), and the EPA Radiation Information Database (Radio) .(https://nepassisttool.epa.gov/nepassist/nepamap.aspx)

The NYSDEC Remedial Site Database (http://www.dec.ny.gov/gis/facilities/) was reviewed to assess whether the site is registered as a NYS Superfund or Environmental Restoration site. The NYSDEC Environmental Remediation Database includes records of sites that are part of the NYS Superfund, Brownfield Cleanup, Environmental Restoration, and Voluntary Cleanup Programs. The Database also includes a Registry of Inactive Hazardous Waste Disposal Sites.

The NYSDEC Bulk Storage Database was reviewed for records of facilities that are or have been regulated according to one of the Bulk Storage Programs - Chemical Bulk Storage or Major Oil Facility. (https://www.dec.ny.gov/cfmx/extapps/derexternal/index.cfm?pageid=4).

The NYSDEC Spill Incident Database was used to determine the potential effects of spills on or near the Subject Property (https://www.dec.ny.gov/cfmx/extapps/derexternal/index.cfm?pageid=2).

Environmental Standards Review
FIGURES

Freeport Power Plant II EPA Facilities

January 25, 2019

- TSCA (single)
- TRI (clustered)
- TRI (single)
- AIRS (clustered)
- AIRS (single)
- RCRAINFO (clustered)
- RCRAINFO (single)
- Project 1

1:9,028

0 0.075 0.15 0.3 mi

0 0.1 0.2 0.4 km

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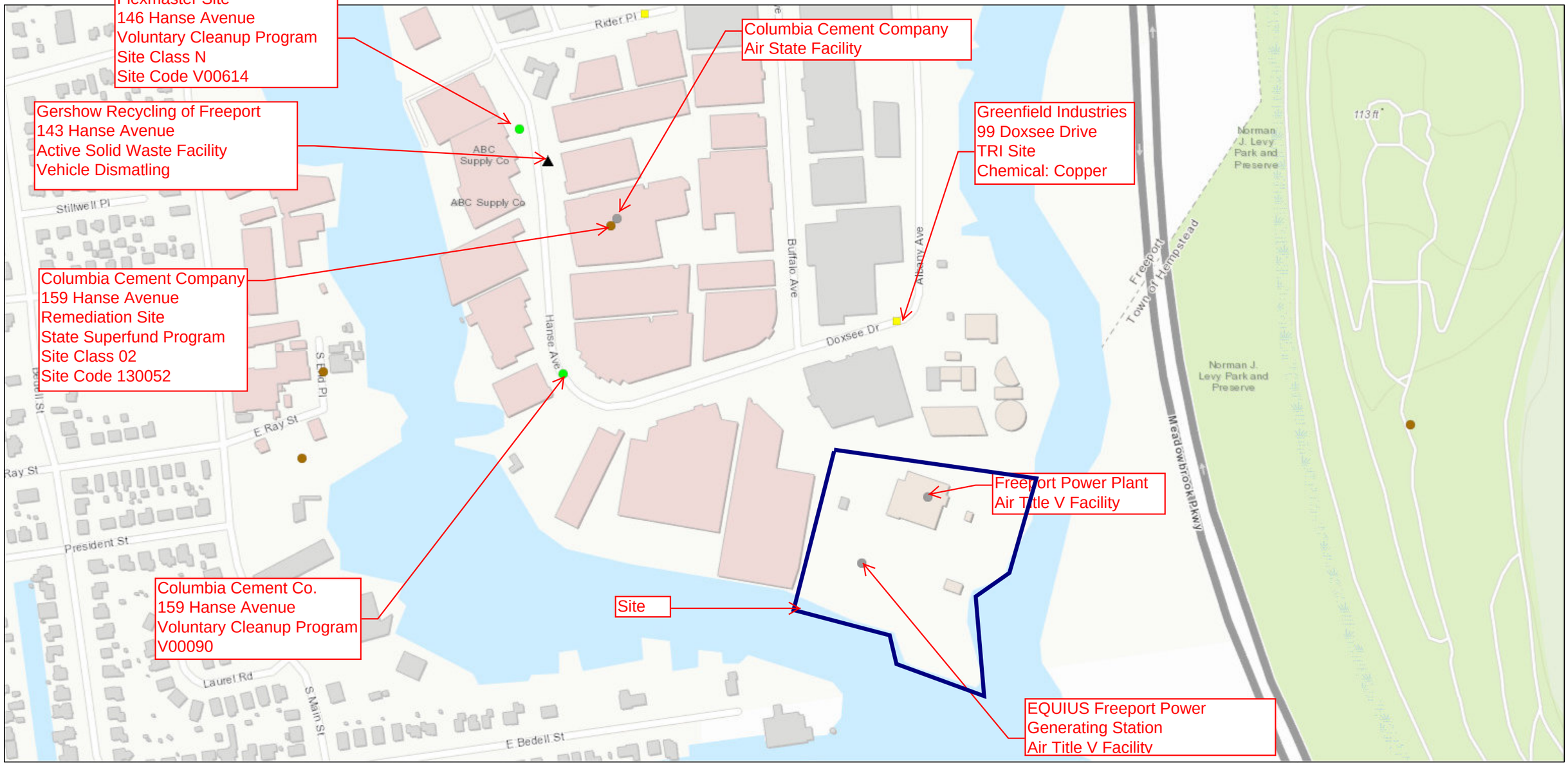
FIGURE 1

Freeport Power Plant II NYS Environmental Facilities



January 25, 2019

1:4,514

0 0.05 0.1 0.2 mi

0 0.075 0.15 0.3 km

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

FIGURE 2

NYS Department of Environmental Conservation
Not a legal document

Environmental Standards Review
ATTACHMENT A

ECHO
Enforcement and Compliance History Online

Detailed Facility Report

Facility Summary

FREEPORT POWER PLANT #2
FREEPORT, NY 11520

FRS (Facility Registry Service) ID: 110019162671
EPA Region: 02
Latitude: 40.646314
Longitude: -73.569566
Locational Data Source: TRIS
Industry: Utilities
Indian Country: N

Enforcement and Compliance Summary

Statute	CAA
Insp (5 Years)	5
Date of Last Inspection	09/27/2018
Current Compliance Status	
Qtrs with NC (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Statute	CWA
Insp (5 Years)	3
Date of Last Inspection	12/19/2017
Current Compliance Status	**No Violation**
Qtrs with NC (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): Operating Major (NY0000001282000358), Operating Major (NY0000001282004508)
Clean Water Act (CWA): Minor, Permit Effective (NY0226416)
Resource Conservation and Recovery Act (RCRA): No Information
Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): 10680411, 7221311
Greenhouse Gas Emissions (eGGRT): 1000288, 1000420
Toxic Releases (TRI): 11520QSFRP289BU
Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110019162671					N	40.646314	-73.569566
AIR	CAA	NY0000001282000358	Major Emissions	Operating	CAAAR, CAACFC, CAANSPS, CAAPARGDC, CAASIP, CAATVP		N		
AIR	CAA	NY0000001282004508	Major Emissions	Operating	CAAAR, CAACFC, CAANSPS, CAAPARGDC, CAASIP, CAATVP		N		
CAMDBS	CAA	2679		ACTIVE			N		
CAMDBS	CAA	56032		ACTIVE			N		
EIS	CAA	10680411		OPERATING			N	40.645683	-73.56904
EIS	CAA	7221311		OPERATING			N	40.644799	-73.568171
GHG	CAA	1000288	Direct Emitter	Subject	General Stationary Fuel Combustion, Electricity Generation		N	40.644078	-73.588858
GHG	CAA	1000420	Direct Emitter	Subject	Electricity Generation		N	40.646332	-73.569567
ICP	CWA	NY0226416	Minor: NPDES Individual Permit	Effective		02/29/2020	N	40.644694	-73.568222
TRI	EP313	11520QSFRP289BU	Toxics Release Inventory	Last Reported for 2008			N	40.646314	-73.569566

Facility Address

System	Statute	Identifier	Facility Name	Facility Address
FRS		110019162671	FREEPORT POWER PLANT #2	289 BUFFALO AVE, FREEPORT, NY 11520
AIR	CAA	NY0000001282000358	FREEPORT POWER PLANT #2	289 BUFFALO AVE, FREEPORT, NY 11520
AIR	CAA	NY0000001282004508	EQUUS FREEPORT POWER GENERATING STATION	289 BUFFALO AVE, FREEPORT, NY 11520
CAMDBS	CAA	2679	FREEPORT POWER PLANT NO. 2	NY
CAMDBS	CAA	56032	EQUUS POWER I	NY
EIS	CAA	10680411	EQUUS FREEPORT POWER GENERATING STATION	289 BUFFALO AVE, FREEPORT, NY 11520
EIS	CAA	7221311	FREEPORT POWER PLANT #2	289 BUFFALO AVE, FREEPORT, NY 11520
GHG	CAA	1000288	Freeport Power Plant No. 2	289 BUFFALO AVE, FREEPORT, NY 11520
GHG	CAA	1000420	Equus Power I	289 BUFFALO AVE, FREEPORT, NY 11520
ICP	CWA	NY0226416	FREEPORT (V) POWER PLANT #2	289 BUFFALO AVENUE, FREEPORT, NY 11520
TRI	EP313	11520QSFRP289BU	EQUUS FREEPORT POWER GENERATION STATION #2	289 BUFFALO AVE, FREEPORT, NY 11520

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Desc
TRI	11520QSFRP289BU	4911	Electric Services
AIR	NY0000001282000358	4911	Electric Services
AIR	NY0000001282004508	4911	Electric Services
ICP	NY0226416	4911	Electric Services

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
GHG	1000288	221112	Fossil Fuel Electric Power Generation
GHG	1000420	221112	Fossil Fuel Electric Power Generation
EIS	10680411	221112	Fossil Fuel Electric Power Generation
TRI	11520QSFRP289BU	221112	Fossil Fuel Electric Power Generation
CAMDBS	2679	221112	Fossil Fuel Electric Power Generation
CAMDBS	56032	221112	Fossil Fuel Electric Power Generation
EIS	7221311	221112	Fossil Fuel Electric Power Generation
AIR	NY0000001282000358	221112	Fossil Fuel Electric Power Generation
AIR	NY0000001282004508	221112	Fossil Fuel Electric Power Generation

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
No data records returned			

Enforcement and Compliance

Compliance Monitoring History (5 years)

Statute	Source ID	System	Inspection Type	Lead Agency	Date	Finding
CAA	NY0000001282000358	AIR	FCE On-Site	State	09/27/2018	
CAA	*NY0000001282000358*	*AIR*	*PCE On-Site*	*State*	*09/27/2018*	
CAA	*NY0000001282000358*	*AIR*	*PCE Off-Site*	*State*	*07/31/2018*	
CAA	*NY0000001282000358*	*AIR*	*PCE Off-Site*	*State*	*05/01/2018*	
CAA	*NY0000001282000358*	*AIR*	*TV ACC Receipt/Review*	*State*	*02/01/2018*	*Finding: No Facility Report Deviations*
CAA	*NY0000001282000358*	*AIR*	*PCE Off-Site*	*State*	*02/01/2018*	
CAA	*NY0000001282000358*	*AIR*	*PCE Off-Site*	*State*	*11/01/2017*	
CAA	*NY0000001282000358*	*AIR*	*PCE Off-Site*	*State*	*07/31/2017*	
CAA	*NY0000001282000358*	*AIR*	*PCE Off-Site*	*State*	*05/01/2017*	
CAA	*NY0000001282000358*	*AIR*	*TV ACC Receipt/Review*	*State*	*01/31/2017*	*Finding: No Facility Report Deviations*

Statute	Source ID	System	Inspection Type	Lead Agency	Date	Finding
CAA	NY0000001282000358	AIR	PCE Off-Site	State	01/31/2017	
CAA	NY0000001282000358	AIR	PCE Off-Site	State	10/31/2016	
CAA	NY0000001282000358	AIR	FCE On-Site	State	09/30/2016	
CAA	NY0000001282000358	AIR	PCE On-Site	State	09/07/2016	
CAA	NY0000001282000358	AIR	PCE Off-Site	State	07/29/2016	
CAA	NY0000001282000358	AIR	PCE Off-Site	State	04/29/2016	
CAA	NY0000001282000358	AIR	PCE Off-Site	State	02/01/2016	
CAA	NY0000001282000358	AIR	TV ACC Receipt/Review	State	02/01/2016	Finding: No Facility Report Deviations
CAA	NY0000001282000358	AIR	PCE Off-Site	State	11/02/2015	
CAA	NY0000001282000358	AIR	PCE Off-Site	State	07/31/2015	
CAA	NY0000001282000358	AIR	PCE Off-Site	EPA	06/29/2015	
CAA	NY0000001282000358	AIR	PCE Off-Site	State	04/29/2015	
CAA	NY0000001282000358	AIR	PCE Off-Site	State	02/03/2015	
CAA	NY0000001282000358	AIR	TV ACC Receipt/Review	State	02/03/2015	Finding: No Facility Report Deviations
CAA	NY0000001282000358	AIR	PCE Off-Site	State	10/30/2014	
CAA	NY0000001282000358	AIR	FCE On-Site	State	09/29/2014	
CAA	NY0000001282000358	AIR	PCE On-Site	State	09/24/2014	
CAA	NY0000001282000358	AIR	PCE Off-Site	State	07/31/2014	
CAA	NY0000001282000358	AIR	PCE Off-Site	State	04/30/2014	
CAA	NY0000001282000358	AIR	TV ACC Receipt/Review	State	01/31/2014	Finding: No Facility Report Deviations
CAA	NY0000001282000358	AIR	TV ACC Receipt/Review	State	01/31/2014	
CAA	NY0000001282000358	AIR	PCE Off-Site	State	01/31/2014	
CAA	NY0000001282004508	AIR	PCE On-Site	State	09/21/2017	
CAA	NY0000001282004508	AIR	FCE On-Site	State	09/21/2017	
CAA	NY0000001282004508	AIR	PCE Off-Site	State	07/28/2017	
CAA	NY0000001282004508	AIR	PCE Off-Site	EPA	07/13/2017	
CAA	NY0000001282004508	AIR	PCE Off-Site	State	05/01/2017	
CAA	NY0000001282004508	AIR	PCE Off-Site	State	01/27/2017	
CAA	NY0000001282004508	AIR	TV ACC Receipt/Review	State	01/27/2017	Finding: No Facility Report Deviations
CAA	NY0000001282004508	AIR	PCE Off-Site	State	01/25/2017	
CAA	NY0000001282004508	AIR	PCE Off-Site	State	10/31/2016	
CAA	NY0000001282004508	AIR	PCE Off-Site	State	08/01/2016	
CAA	NY0000001282004508	AIR	PCE Off-Site	EPA	06/28/2016	
CAA	NY0000001282004508	AIR	PCE Off-Site	State	04/29/2016	
CAA	NY0000001282004508	AIR	TV ACC Receipt/Review	State	02/01/2016	Finding: No Facility Report Deviations
CAA	NY0000001282004508	AIR	PCE Off-Site	State	02/01/2016	
CAA	NY0000001282004508	AIR	PCE Off-Site	State	01/28/2016	
CAA	NY0000001282004508	AIR	PCE Off-Site	State	10/22/2015	
CAA	NY0000001282004508	AIR	FCE On-Site	State	09/29/2015	
CAA	NY0000001282004508	AIR	PCE Off-Site	State	07/22/2015	
CAA	NY0000001282004508	AIR	TV ACC Receipt/Review	State	07/22/2015	Finding: No Facility Report Deviations
CAA	NY0000001282004508	AIR	PCE Off-Site	State	07/14/2015	
CAA	NY0000001282004508	AIR	PCE Off-Site	State	04/30/2015	
CAA	NY0000001282004508	AIR	PCE Off-Site	State	01/23/2015	
CAA	NY0000001282004508	AIR	PCE Off-Site	State	10/30/2014	
CAA	NY0000001282004508	AIR	TV ACC Receipt/Review	State	08/26/2014	Finding: No Facility Report Deviations
CAA	NY0000001282004508	AIR	PCE Off-Site	State	07/31/2014	
CAA	NY0000001282004508	AIR	PCE Off-Site	State	07/29/2014	
CAA	NY0000001282004508	AIR	PCE Off-Site	State	04/30/2014	
CAA	NY0000001282004508	AIR	PCE Off-Site	State	01/24/2014	

Statute	Source ID	System	Inspection Type	Lead Agency	Date	Finding
CWA	NY0226416	ICP	Evaluation	State	12/19/2017	
CWA	NY0226416	ICP	Sampling	EPA	11/04/2015	
CWA	NY0226416	ICP	Evaluation	State	05/28/2014	

Entries in italics are not considered inspections in official counts.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CAA	NY0000001282000358	No	12/22/2018	0	12/21/2018
CAA	NY0000001282004508	No	12/22/2018	0	12/21/2018
CWA	NY0226416	No	09/30/2018	0	12/21/2018

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type				QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12+
	CAA (Source ID: NY0000001282000358)				01/01-03/31/16	04/01-06/30/16	07/01-09/30/16	10/01-12/31/16	01/01-03/31/17	04/01-06/30/17	07/01-09/30/17	10/01-12/31/17	01/01-03/31/18	04/01-06/30/18	07/01-09/30/18	10/01-12/31/18
	Facility-Level Status				**No Violation**											
	HPV History															
	Violation Type	**Agency**	**Programs**	**Pollutants**												
	CAA (Source ID: NY0000001282004508)				01/01-03/31/16	04/01-06/30/16	07/01-09/30/16	10/01-12/31/16	01/01-03/31/17	04/01-06/30/17	07/01-09/30/17	10/01-12/31/17	01/01-03/31/18	04/01-06/30/18	07/01-09/30/18	10/01-12/31/18
	Facility-Level Status				**No Violation**											
	HPV History															
	Violation Type	**Agency**	**Programs**	**Pollutants**												

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12	QTR 13+
	CWA (Source ID: NY0226416)	10/01-12/31/15	01/01-03/31/16	04/01-06/30/16	07/01-09/30/16	10/01-12/31/16	01/01-03/31/17	04/01-06/30/17	07/01-09/30/17	10/01-12/31/17	01/01-03/31/18	04/01-06/30/18	07/01-09/30/18	10/01-12/21/18
	Facility-Level Status	**No Violation**	**No Violation**	**No Violation**	**No Violation**	**No Violation**	**No Violation**	**No Violation**	**No Violation**	**No Violation**	**No Violation**	**No Violation**	**No Violation**	**Und**
	SNC (Significant Non-compliance)/RNC (Reportable Non-Compliance) History													

Informal Enforcement Actions (5 Years)

Statute	System	Source ID	Type of Action	Lead Agency	Date
No data records returned					

Formal Enforcement Actions (5 Years)

Statute	System	Law/Section	Source ID	Action Type	Case No.	Lead Agency	Case Name	Issued/Filed Date	Settlements/Actions	Settlement/Action Date	Federal Penalty	State/Local Penalty	SEP Cost	Comp Action Cost
No data records returned														

Environmental Conditions

Water Quality

Permit ID	Combined Sewer System?	Number of CSO (Combined Sewer Overflow) Outfalls	12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Waterbody Name (ICIS (Integrated Compliance Information System))	Impaired Waters	Impaired Class	Causes of Impairment(s) by Group(s)	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
NY0226416			020302020203	Freeport Creek	MERRICK R	No			Yes

Waterbody Designated Uses

Reach Code	Waterbody Name	Exceptional Use	Recreational Use	Aquatic Life Use	Shellfish Use	Beach Closure Within Last Year	Beach Closure Within Last Two Years
02030202000130		No	No	No	No	No	No

Air Quality

Nonattainment Area?	Pollutant(s)	Applicable Nonattainment Standard(s)
Yes	Ozone	8-Hour Ozone (2008), 8-Hour Ozone (2015)
No	Lead	
Yes	Particulate Matter	PM-2.5 (1997), PM-2.5 (2006)
Yes	Carbon Monoxide	Carbon Monoxide (1971)
No	Nitrogen Dioxide	
No	Sulfur Dioxide	

Pollutants

Toxics Release Inventory History of Reported Chemicals Released in Pounds per Year at Site

Air Pollutant Report

TRI Facility ID	Year	Total Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Releases to Land	Total On-site Releases	Total Off-site Releases
No data records returned								

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name	2017	2016	2015	2014	2013	2012	2011	2010	2009
AMMONIA									
NAPHTHALENE									

Demographic Profile

Demographic Profile of Surrounding Area (3 Miles)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2010 US Census and American Community Survey data, and are accurate to the extent that the facility latitude and longitude listed below are correct. The latitude and longitude are obtained from the EPA Locational Reference Table (LRT) when available.

Radius of Area:	3	Land Area:	78%	Households in Area:	45,544
Center Latitude:	40.646314	Water Area:	22%	Housing Units in Area:	47,167
Center Longitude:	-73.569566	Population Density:	6,519/sq.mi.	Households on Public Assistance:	631
Total Persons:	142,806	Percent Minority:	48%	Persons Below Poverty Level:	20,841

Race Breakdown	Persons (%)	Age Breakdown	Persons (%)
White:	88,268 (62%)	Child 5 years and younger:	8,628 (6%)

Race Breakdown	Persons (%)	Age Breakdown	Persons (%)
African-American:	32,438 (23%)	Minors 17 years and younger:	34,844 (24%)
Hispanic-Origin:	31,431 (22%)	Adults 18 years and older:	107,961 (76%)
Asian/Pacific Islander:	3,661 (3%)	Seniors 65 years and older:	18,131 (13%)
American Indian:	588 (0%)		
Other/Multiracial:	17,851 (13%)		

Education Level (Persons 25 & older)	Persons (%)	Income Breakdown	Households (%)
Less than 9th Grade:	5,931 (6.32%)	Less than $15,000:	2,579 (5.6%)
9th through 12th Grade:	5,449 (5.8%)	$15,000 - $25,000:	2,578 (5.6%)
High School Diploma:	24,604 (26.21%)	$25,000 - $50,000:	6,810 (14.8%)
Some College/2-yr:	23,061 (24.56%)	$50,000 - $75,000:	6,634 (14.41%)
B.S./B.A. or More:	34,844 (37.11%)	Greater than $75,000:	27,426 (59.59%)

Environmental Standrds Review
ATTACHMENT B

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Bulk Storage Database Search Details

First Site Previous Site

Facility Information

Site No.: 1-3320
Status: Active
Expiration Date: 03/31/2021
Site Type: MOSF
Facility Type: Other
Site Name: FREEPORT ELECTRIC, POWER PLANT #2
Address: 289 BUFFALO AVENUE
Locality: FREEPORT
State: NY
Zipcode: 11520
County: Nassau

Facility(Property) Owner(s) Information

Facility Owner: INC. VILLAGE OF FREEPORT
46 NORTH OCEAN AVENUE . FREEPORT, NY. 11520

Facility Operator

Facility Operator: FREEPORT ELECTRIC, POWER PLANT #2

Tank Information

Tank Information withheld (not releaseable under Freedom of Information Law) in accordance with Public Officers Law Sections 86.5, 87.2(f), 89.5(a)(1)(1-a)

Return To Results

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Bulk Storage Database Search Details

First Site | Previous Site | Next Site | Last Site

Facility Information

Site No.: 1-000556
Status: Active
Expiration Date: 09/18/2020
Site Type: CBS
Facility Type: Municipality (Incl. Waste Water Treatment Plants, Utilities, Swimming Pools, etc.)
Site Name: FREEPORT ELECTRIC
Address: 289 BUFFALO AVE. POWER PLANT #2
Locality: FREEPORT
State: NY
Zipcode: 11520
County: Nassau

Facility(Property) Owner(s) Information

Facility Owner: INCORPORATED VILLAGE OF FREEPORT
46 NORTH OCEAN AVE. . FREEPORT, NY. 11520

Facility Operator

Facility Operator: FREEPORT ELECTRIC

Tank Information

Tank Information withheld (not releaseable under Freedom of Information Law) in accordance with Public Officers Law Sections 86.5, 87.2(f), 89.5(a)(1)(1-a)

Return To Results

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Bulk Storage Database Search Details

First Site | Previous Site | Next Site | Last Site

Facility Information

Site No.: 1-000573
Status: Active
Expiration Date: 05/17/2020
Site Type: CBS
Facility Type: Utility (Other than Municipal)
Site Name: EQUUS POWER I, L.P.
Address: 289 BUFFALO AVE
Locality: FREEPORT
State: NY
Zipcode: 11520
County: Nassau

Facility(Property) Owner(s) Information

Facility Owner: EQUUS POWER I, LP
1900 EAST GOLF RD., SUITE 1030 . SCHAUMBURGH, IL. 60173

Facility Operator

Facility Operator: EQUUS POWER I, L.P.

Tank Information

Tank Information withheld (not releaseable under Freedom of Information Law) in accordance with Public Officers Law Sections 86.5, 87.2(f), 89.5(a)(1)(1-a)

Return To Results

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Bulk Storage Database SearchResults

Record Count: 9 Rows: 1 to 9

Export XLS | Export CSV | Export KML

Site Number	Site Type	Facility Name	County	Locality	Site Address	ZipCode	Facility Status	Expiration Date
1-000034	PBS	125 W. SUNRISE HWY. FUEL CORP.	NASSAU	FREEPORT	125 W. SUNRISE HWY.	11520	UNREGISTERED	
1-000163	PBS	SUNOCO	NASSAU	FREEPORT	85 N. MAIN ST.	11520	UNREGULATED/CLOSED	
1-000216	PBS	EXXON	NASSAU	FREEPORT	300 WEST MERRICK RD.	11520	UNREGULATED/CLOSED	
1-000225	PBS	US PETROLEUM	NASSAU	FREEPORT	199 SUNRISE HWY.	11520	UNREGULATED/CLOSED	
1-000412	PBS	A&D FISHERIES INC.	NASSAU	FREEPORT	1 ANCHORAGE WAY	11520	UNREGULATED/CLOSED	
1-000615	PBS	FREEPORT WATER AND ELECTRIC	NASSAU	FREEPORT	220 WEST SUNRISE	11520	UNREGISTERED	
1-000791	PBS	NYS DEPARTMENT OF TRANSPORTATION	NASSAU	FREEPORT	223 EAST SUNRISE HWY.	11520	ACTIVE	
1-000817	PBS	US COAST GUARD STATION JONES BEACH	NASSAU	FREEPORT	1 WEST END BOAT BASIN	11520-5001	ACTIVE	
1-000839	PBS	VILLAGE OF FREEPORT	NASSAU	FREEPORT	355 ALBANY AVE	11520	UNREGISTERED	

Refine This Search

FREEPORT POWER PLANT II
289 BUFFALO AVENUE, FREEPORT
NO LISTED AS A PETROLUEM BULK STORAGE FACILITY

Environmental Standards Review
ATTACHMENT C

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 1
Spill Number: 0711131

Spill Date/Time

Spill Date: 01/22/2008 **Spill Time:** 09:30:00 AM
Call Received Date: 01/22/2008 **Call Received Time:** 10:41:00 AM

Location

Spill Name: PPL POWER PLANT
Address: 289 BUFFALO AVENUE
City: FREEPORT **County:** Nassau

Spill Description

Material Spilled	Amount Spilled	Resource Affected
kerosene	20 Gal.	Soil

Cause: Equipment Failure
Source: Commercial/Industrial
Waterbody:

Record Close

Date Spill Closed: 05/02/2008

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Return To Results

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 1
Spill Number: 0610261

Spill Date/Time

Spill Date: 12/08/2006 **Spill Time:** 09:30:00 PM
Call Received Date: 12/09/2006 **Call Received Time:** 03:22:00 AM

Location

Spill Name: EQUUS ONE
Address: 289 BUFFALO AVENUE
City: FREEPORT **County:** Nassau

Spill Description

Material Spilled	Amount Spilled	Resource Affected
kerosene	10 Gal.	Soil

Cause: Equipment Failure
Source: Commercial/Industrial
Waterbody:

Record Close

Date Spill Closed: 04/11/2007

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Return To Results

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 1
Spill Number: 0105009

Spill Date/Time

Spill Date: 08/08/2001 **Spill Time:** 09:34:00 PM
Call Received Date: 08/08/2001 **Call Received Time:** 09:34:00 PM

Location

Spill Name: FREEPORT ELECTRIC
Address: 289 BUFFALO AVENUE
City: FREEPORT **County:** Nassau

Spill Description

Material Spilled	Amount Spilled	Resource Affected
#2 fuel oil	50 Gal.	Soil

Cause: Equipment Failure
Source: Tank Truck
Waterbody:

Record Close

Date Spill Closed: 08/21/2001

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Return To Results

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 1
Spill Number: 9803263

Spill Date/Time

Spill Date: 06/13/1998 **Spill Time:** 05:15:00 PM
Call Received Date: 06/13/1998 **Call Received Time:** 08:23:00 PM

Location

Spill Name: VILLAGE OF FREEPORT
Address: 289 BUFFALO AVENUE
City: FREEPORT **County:** Nassau

Spill Description

Material Spilled	Amount Spilled	Resource Affected
waste oil/used oil	UNKNOWN	Soil

Cause: Other
Source: Institutional, Educational, Gov., Other
Waterbody:

Record Close

Date Spill Closed: 01/27/2004

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Return To Results

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 1
Spill Number: 9705943

Spill Date/Time

Spill Date: 08/15/1997 **Spill Time:** 02:30:00 PM
Call Received Date: 08/15/1997 **Call Received Time:** 02:50:00 PM

Location

Spill Name: VILLAGE OF FREEPORT
Address: BUFFALO AVENUE
City: FREEPORT **County:** Nassau

Spill Description

Material Spilled	Amount Spilled	Resource Affected
#2 fuel oil	UNKNOWN	Soil

Cause: Equipment Failure
Source: Major Facility (MOSF) > 400,000 gal
Waterbody:

Record Close

Date Spill Closed: 02/05/1998

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Return To Results

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 1
Spill Number: 9514205

Spill Date/Time

Spill Date: 02/06/1996 **Spill Time:** 12:00:00 PM
Call Received Date: 02/07/1996 **Call Received Time:** 04:17:00 PM

Location

Spill Name: FREEPORT POWER AND LIGHT
Address: BUFFALO AVENUE
City: FREEPORT **County:** Nassau

Spill Description

Material Spilled	Amount Spilled	Resource Affected
waste oil/used oil	UNKNOWN	Groundwater

Cause: Other
Source: Major Facility (MOSF) > 400,000 gal
Waterbody:

Record Close

Date Spill Closed: 02/03/2011

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Return To Results

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 1
Spill Number: 9604331

Spill Date/Time

Spill Date: 06/13/1996 **Spill Time:** 07:00:00 AM
Call Received Date: 07/01/1996 **Call Received Time:** 12:02:00 PM

Location

Spill Name: FREEPORT PWR & LGT - #2
Address: 289 BUFFALO AVENUE
City: FREEPORT **County:** Nassau

Spill Description

Material Spilled	Amount Spilled	Resource Affected
diesel	6 Gal.	Soil

Cause: Equipment Failure
Source: Major Facility (MOSF) > 400,000 gal
Waterbody:

Record Close

Date Spill Closed: 07/02/1996

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Return To Results

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 1
Spill Number: 9404547

Spill Date/Time

Spill Date: 07/01/1994 **Spill Time:** 12:50:00 PM
Call Received Date: 07/01/1994 **Call Received Time:** 01:35:00 PM

Location

Spill Name: FREEPORT DPW TURBINE PLANT
Address: 289 BUFFALO AVENUE
City: FREEPORT **County:** Nassau

Spill Description

Material Spilled	Amount Spilled	Resource Affected
diesel	10 Gal.	Soil

Cause: Equipment Failure
Source: Tank Truck
Waterbody:

Record Close

Date Spill Closed: 02/27/1995

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Return To Results

Refine This Search

EAF
ATTACHMENT 6
USFWS CONSULTATION AND IPAC LIST
NYSDEC NHP CONSULTATION LETTER

Governor's Office of
Storm Recovery

ANDREW M. CUOMO
Governor

January 28, 2019

Steve Papa
United States Fish and Wildlife Service
Long Island Field Office
340 Smith Road
Shirley, NY 11967

Re: **REVISED for tree removal**
ESA/MBTA/BGEPA Consultation for Freeport Power Plant No. 2 Resiliency Project
Village of Freeport Power Plant No. 2, 289 Buffalo Ave, Village of Freeport, Nassau County, NY - 40° 38' 39.86" North and 73° 34' 05.73" West

Dear Mr. Papa:

The Governor's Office of Storm Recovery (GOSR), acting under the auspices of New York State Homes and Community Renewal's (HCR) Housing Trust Fund Corporation (HTFC), on behalf of the Department of Housing and Urban Development (HUD) is preparing an Environmental Assessment (EA) for the Protection for Freeport's Power Plant II Project (the "Proposed Action") (**Attachments 1 and 2**). Funding is being provided by the HUD Community Development Block Grant Disaster Recovery (CDBG-DR) program.

The purpose of this letter is to provide the United States Fish and Wildlife Service (USFWS) – New York Ecological Services Field Office notice of the proposed project and to document compliance with Section 7 of the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.), Migratory Bird Treaty Act of 1918 (MBTA) (40 Stat. 755, as amended; 16 U.S.C. 703-712) and the Bald and Golden Eagle Protection Act of 1940 (BGEPA) (54 Stat. 240, as amended; 16 U.S.C. 668-668c). As discussed below, we have reviewed the project and found that it does not jeopardize the continued existence of ESA species or destroy or adversely modify their critical habitat.

1.0 PROJECT DESCRIPTION

This project consists of design and construction of the long-term and permanent flood protection for the Freeport Electric Power Plant 2 infrastructure. Freeport Power Plant 2 is located in the Village of Freeport and is located on a peninsula of land adjacent to Freeport Creek and Stadium Park Canal (Figure 1 and Figure 2). The project consists of design and construction the following flood hazard risk reduction measures:

1. Installation of approximately 1,300 linear feet of flood wall constructed of vinyl sheet pile (26 feet long piles). The flood wall bottom wall elevation is designed at -12.0 ft and the wall top elevation is 14.0 ft. feet. The estimated height of sheet pile wall above existing grade ranges from 4.2 feet to 8.3 feet;

2. Construction of approximately360 linear feet of aluminum flood plank wall with concrete footing (one foot deep and three feet wide) placed in concrete columns, and temporary relocation of existing chain link fences as required for construction.
3. Provision for a temporary water tight flood gate at the entrance to the existing parking lot;
4. Installation of a sluice gate to the bottom of the existing sound wall;
5. Construction of a new duplex stormwater duplex pump station with a 6 inch discharge pipe to the existing 12 inch storm sewer;
6. Installation of a new 250 gallon per minute spare pump to the existing fuel oil room;
7. Installation of an inline outfall check valve and the construction of new manhole at Outfall No. 2; and
8. Construction of a new 10 gallon per minute below grade sewer pump station (emergency only) and a sewer check valve will be an alternate based on available funds.

A 60% Design for these eight (8) flood hazard risk reduction measures has been completed by P.W Grosser Consulting Engineers and dated 10/19/18.

The implementation of these measures at Freeport Power Plant No. 2 will significantly reduce risk of facility damage due to water intrusion or inundation from sudden heavy rainstorms, extreme tidal conditions, tropical storms, and hurricanes. In addition, the risk of contamination from onsite leaking oil tanks will be significantly reduced. Further, plant facilities such as structures, machinery, gas compressors, on-site generators, control houses, and transformers will attain higher levels of service and customer reliability with the added flood protection.

2.0 ESA AND MIGRATORY BIRD TREATY ACT AND THE BALD AND GOLDEN EAGLE PROTECTION ACT SPECIES

According to the United States Fish and Wildlife Service (USFWS) Information, Planning and Conservation (IPaC) online planning tool and Trust Resource List generated for the proposed project (**Attachment 3**) the Roseate Tern (*Sterna dougallii dougallii*) and the Sandplain Gerardia (Agalinis acuta) are listed as an endangered species and the Piping Plover (*Charadrius melodus*), the Red Knot (*Calidris canutus rufa*), the Northern Long-eared bat (NLEB) (*Myotis septentrionalis*) and the Seabeach Amaranth (Amaranthus pumilus) are listed as threatened species that can be found within the vicinity of the project area. The official species list for the proposed project indicated that there is no critical habitat in the project area.

A description of each federally threatened species identified by USFWS, and the likelihood that the species occurs within the project area, is provided below. Species' descriptions are summarized from New York State Department of Environmental Conservation (NYSDEC) fact sheets and USFWS species profiles.

2.1 Northern long-eared bat

The Northern long-eared bat (NLEB) is a medium-sized bat that is distinguished by its long ears, particularly as compared to other bats in its genus. The northern long-eared bat is found across much of the eastern and north central United States. White-nose syndrome is the predominant threat to this bat, especially throughout the northeast where the species has declined by up to 99 percent from pre-white-nose syndrome levels at many hibernation sites. During summer, northern long-eared bats roost singly or in colonies underneath bark, in cavities, or in crevices of both live and dead trees, using tree species based on suitability to retain bark or provide cavities or crevices. They emerge at dusk to fly through the understory of forested hillsides and ridges feeding on moths, flies, leafhoppers, caddisflies, and beetles or by gleaning insects from vegetation and water surfaces. Northern long-eared bats spend winter hibernating in caves and mines. This bat prefers habitat with abundant stands of trees with sufficient bark crevices and snags for roosting habitat that is not provided by the project location.

The following trees will be removed:

8"-12" Diameter Trees: 16 Trees

14"-24" Diameter Trees: 7 Trees

GOSR will strive for tree removal to occur during the inactive season of the NLEB (November 1 through March 31). However, there is the potential that the project schedule will not be able to accommodate time restricted tree removal. Due to the potential for active season tree removal, GOSR determines that this project may affect the NLEB, but that any resulting incidental take of the NLEB is not prohibited by the final 4(d) rule (see attached Streamlined Consultation Form). All activities associated with the proposed project will not:

1) disturb hibernating NLEBs in a known hibernaculum;

2) alter the entrance or interior environment of a known hibernaculum;

3) remove any trees within 0.25 miles of a known hibernaculum at any time of year; or

4) cut or destroy known occupied maternity roost trees, or any other trees within a 150-foot radius from the maternity roost tree, during the pup season (June 1 through July 31).

If the USFWS does not respond within 30 days from submittal of this form, GOSR may presume that its determination is informed by the best available information and that its project responsibilities under 7(a)(2) with respect to the NLEB are fulfilled through the USFWS January 5, 2016, “Programmatic Biological Opinion (BO) on the Final 4(d) Rule for the Northern Long-

Eared Bat and Activities Excepted from Take Prohibitions." GOSR will update this determination annually for multi-year activities.

2.2 Piping Plover, Red Knot, and Roseate Tern

Piping plover, red knot, and roseate tern are not expected to occur in the vicinity of the project area except as occasional transients. The project area is mostly asphalt and parking areas surround by a maintained grass area. The power plant is active and has a lot human activity. Piping plover, red knot, and roseate tern may forage in marshes nearby the project area, but foraging habitat is not present within the immediate vicinity of the project. Breeding habitat for red knot is not present within the project area as this species breeds in the Canadian arctic region. Piping plover and roseate tern nest on sandy beaches and marsh islands, habitats which are not present within the project area. Therefore, GOSR has determined that the project activity will have "No Effect" on the Piping plover, red knot, and roseate tern. Additionally, the project occurs in an industrial area serving as a power supply facility, which does not provide a suitable habitat for breeding or nesting.

2.3 Sandplain Gerardia and Seabeach Amaranth

Sandplain gerardia occurs only in remnant grasslands on Long Island; this species does not occur within the vicinity of the project area. Seabeach amaranth grows in the upper beach zone above the high tide line, habitat which is not present within the project area. Additionally, the project area is mostly asphalt and is covered with buildings. Therefore, GOSR has determined that the project activity will have "No Effect" on Sandplain gerardia and Seabeach amaranth.

2.4 Migratory Bird Treaty Act

According to the USFWS IPaC Trust Resource Report, there are several migratory birds of concern that could potentially be affected by the proposed project. The project takes place within the Atlantic Flyway. The proposed project involves construction of flood protection for the facility, and does not involve areas that provide a suitable habitat for breeding or nesting. It has been determined that this phase of the project would have no significant adverse impact on migratory birds or their habitat.

2.5 Bald and Golden Eagle Protection Act

The proposed project involves the installation of resiliency structures an equipment to allow the power plant to withstand future storm and high water events, and does not involve areas that provide a suitable habitat for breeding or nesting. It has been determined that the project would have no impact on the Bald Eagle.

If you need additional information, then please contact me at (518) 474-0647 or via email at Alicia.Shultz@nyshcr.org. Thank you for your assistance.

Sincerely,

Alicia Shultz
Senior Environmental Scientist
New York State Homes and Community Renewal
38-40 State Street, 408N, Hampton Plaza
Albany, New York 12207

Enclosures:

Attachment 1 – Project Location Map
Attachment 2 – Project Site Map
Attachment 3 – IPaC Trust Resource Report
Attachment 4 - Streamlined Consultation Form
Attachment 5 – NYSDEC Jurisdictional Inquiry

Literature Cited

Broders, H.G., G.J. Forbes, S. Woodley, and I.D. Thompson. 2006. Range extent and stand selection for forest-dwelling northern long-eared and little brown bats in New Brunswick. Journal of Wildlife Management 70: 1174-1184.

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Ford, W.M., M.A. Menzel, J.L. Rodriguez, J.M. Menzel, and J.B. Johnson. 2005. Relating bat species presence to simple habitat measures in a central Appalachian forest. Biological Conservation 126: 528-539.

Foster, R.W. and A. Kurta, A. 1999. Roosting ecology of the northern bat (Myotis septentrionalis) and comparisons with the endangered Indiana bat (Myotis sodalis). Journal of Mammalogy 80: 659-672.

Henderson, L.E., L.J. Farrow, and H.G. Broders. 2008. Intra-specific effects of forest loss on the distribution of the forest-dependent northern long-eared bat (Myotis septentrionalis). Biological Conservation 141:1819-1828.

Menzel, M.A., S.F. Owen, W.M. Ford, J.W. Edwards, P.B. Wood, B.R. Chapman, and K.V. Miller. 2002. Roost tree selection by northern long-eared bat (Myotis septentrionalis) maternity colonies in an industrial forest of the central Appalachian mountains. Forest Ecology and Management 155:107-114.

Owen, S.F., M.A. Menzel, W.M. Ford, B.R. Chapman, K.V. Miller, J.W. Edwards, and P.B. Wood. 2003. Home-range size and habitat used by the northern myotis (Myotis septentrionalis). American Midland Naturalist 150:352-359.

USFWS Letter

ATTACHMENT 1

PROJECT LOCATION MAP

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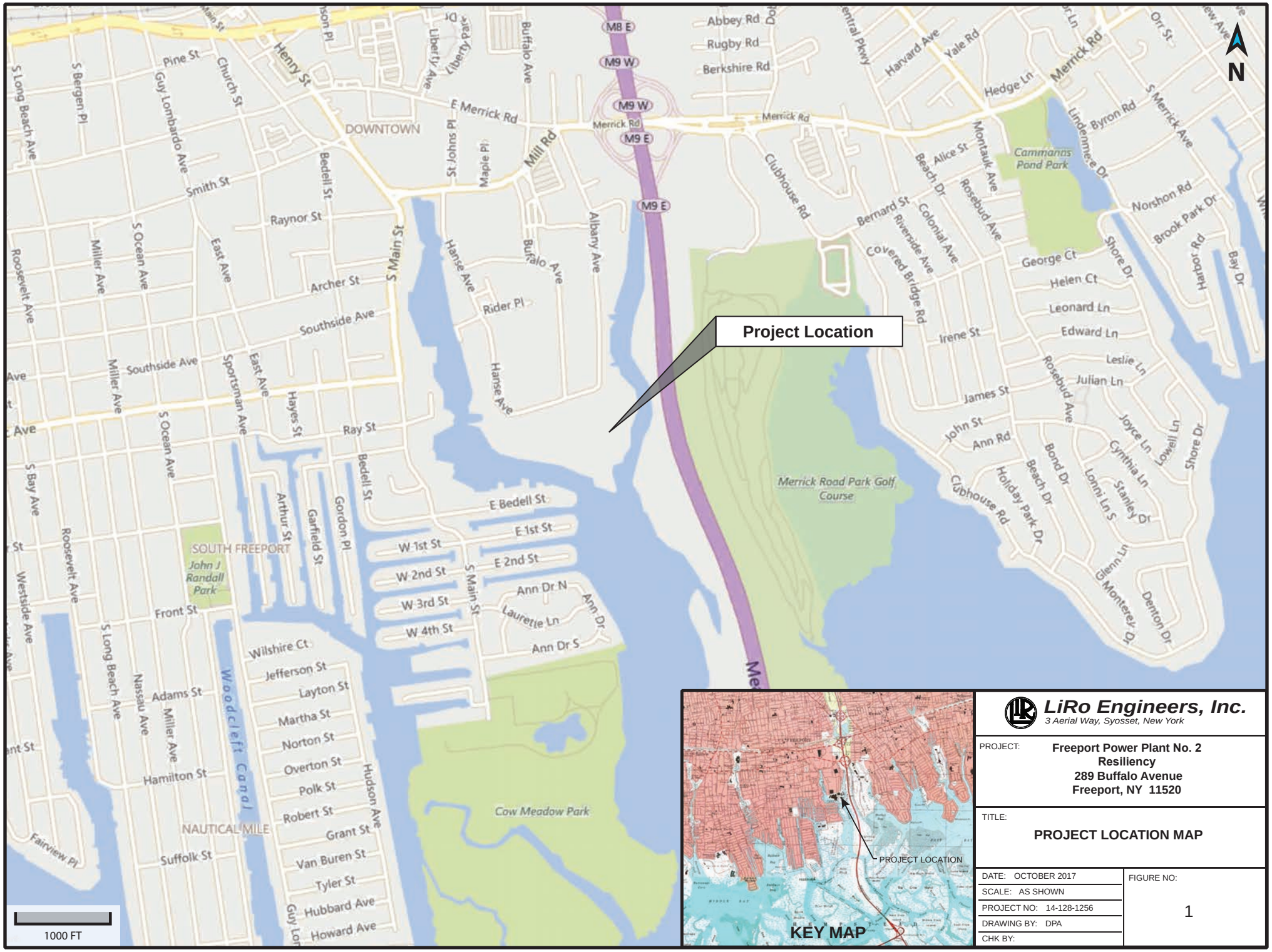

LiRo Engineers, Inc.
3 Aerial Way, Syosset, New York

PROJECT: **Freeport Power Plant No. 2 Resiliency**
289 Buffalo Avenue
Freeport, NY 11520

TITLE: **PROJECT LOCATION MAP**

DATE: OCTOBER 2017	FIGURE NO:
SCALE: AS SHOWN	1
PROJECT NO: 14-128-1256	
DRAWING BY: DPA	
CHK BY:	

USFWS Letter

ATTACHMENT 2 PROJECT

AERIAL FIGURE

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LiRo Engineers, Inc.
3 Aerial Way, Syosset, New York

PROJECT:
Freeport Power Plant No. 2
Resiliency
289 Buffalo Avenue
Freeport, NY 11520

TITLE:
PROJECT LOCATION AERIAL

DATE: OCTOBER 2017	FIGURE NO:
SCALE: AS SHOWN	2
PROJECT NO: 14-128-1256	
DRAWING BY: DPA	
CHK BY:	

USFWS Letter

ATTACHMENT 3

IPaC TRUST RESOURCE REPORT

IPaC **U.S. Fish & Wildlife Service**

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

NOT FOR CONSULTATION

Location

Nassau County, New York

Local office

Long Island Ecological Services Field Office

(631) 286-0485
(631) 286-4003

340 Smith Road
Shirley, NY 11967-2258

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population, even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species[1] and their critical habitats are managed by the Ecological Services Program of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries[2]).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact NOAA Fisheries for species under their jurisdiction.

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1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information.
2. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME	STATUS

NOT FOR CONSULTATION

Northern Long-eared Bat Myotis septentrionalis No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9045	Threatened

Birds

NAME	STATUS
Piping Plover Charadrius melodus There is **final** critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/6039	Threatened
Red Knot Calidris canutus rufa No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/1864	Threatened
Roseate Tern Sterna dougallii dougallii No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/2083	Endangered

Flowering Plants

NAME	STATUS
Sandplain Gerardia Agalinis acuta No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/8128	Endangered
Seabeach Amaranth Amaranthus pumilus No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/8549	Threatened

NOT FOR CONSULTATION

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php
- Measures for avoiding and minimizing impacts to birds http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php
- Nationwide conservation measures for birds http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NOT FOR CONSULTATION

NAME	BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE. "BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA.)

American Oystercatcher Haematopus palliatus — Breeds Apr 15 to Aug 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/8935

Bald Eagle Haliaeetus leucocephalus — Breeds Oct 15 to Aug 31

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.
https://ecos.fws.gov/ecp/species/1626

Black Scoter Melanitta nigra — Breeds elsewhere

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Black Skimmer Rynchops niger — Breeds May 20 to Sep 15

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/5234

Black-billed Cuckoo Coccyzus erythropthalmus — Breeds May 15 to Oct 10

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/9399

Bonaparte's Gull Chroicocephalus philadelphia — Breeds elsewhere

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Canada Warbler Cardellina canadensis — Breeds May 20 to Aug 10

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Common Loon gavia immer — Breeds Apr 15 to Oct 31

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.
https://ecos.fws.gov/ecp/species/4464

NOT FOR CONSULTATION

Common Tern Sterna hirundo — Breeds May 10 to Sep 10

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.
https://ecos.fws.gov/ecp/species/4963

Double-crested Cormorant phalacrocorax auritus — Breeds Apr 20 to Aug 31

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.
https://ecos.fws.gov/ecp/species/3478

Dunlin Calidris alpina arcticola — Breeds elsewhere

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

Great Black-backed Gull Larus marinus — Breeds Apr 15 to Aug 20

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Gull-billed Tern Gelochelidon nilotica — Breeds May 1 to Jul 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/9501

Herring Gull Larus argentatus — Breeds Apr 20 to Aug 31

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Kentucky Warbler Oporornis formosus — Breeds Apr 20 to Aug 20

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Least Tern Sterna antillarum — Breeds Apr 20 to Sep 10

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

Lesser Yellowlegs Tringa flavipes — Breeds elsewhere

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/9679

NOT FOR CONSULTATION

Long-tailed Duck Clangula hyemalis — Breeds elsewhere

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.
https://ecos.fws.gov/ecp/species/7238

Prairie Warbler Dendroica discolor — Breeds May 1 to Jul 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Prothonotary Warbler Protonotaria citrea — Breeds Apr 1 to Jul 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Red-breasted Merganser Mergus serrator — Breeds elsewhere

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Red-headed Woodpecker Melanerpes erythrocephalus — Breeds May 10 to Sep 10

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Red-throated Loon Gavia stellata — Breeds elsewhere

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Ring-billed Gull Larus delawarensis — Breeds elsewhere

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Ruddy Turnstone Arenaria interpres morinella — Breeds elsewhere

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

Rusty Blackbird Euphagus carolinus — Breeds elsewhere

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Saltmarsh Sparrow Ammodramus caudacutus — Breeds May 15 to Sep 5

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

NOT FOR CONSULTATION

Semipalmated Sandpiper Calidris pusilla This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Short-billed Dowitcher Limnodromus griseus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9480	Breeds elsewhere
Surf Scoter Melanitta perspicillata This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds elsewhere
Willet Tringa semipalmata This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 20 to Aug 5
Wood Thrush Hylocichla mustelina This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Aug 31

NOT FOR CONSULTATION

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ “Proper Interpretation and Use of Your Migratory Bird Report” before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week

of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.

3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)
Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

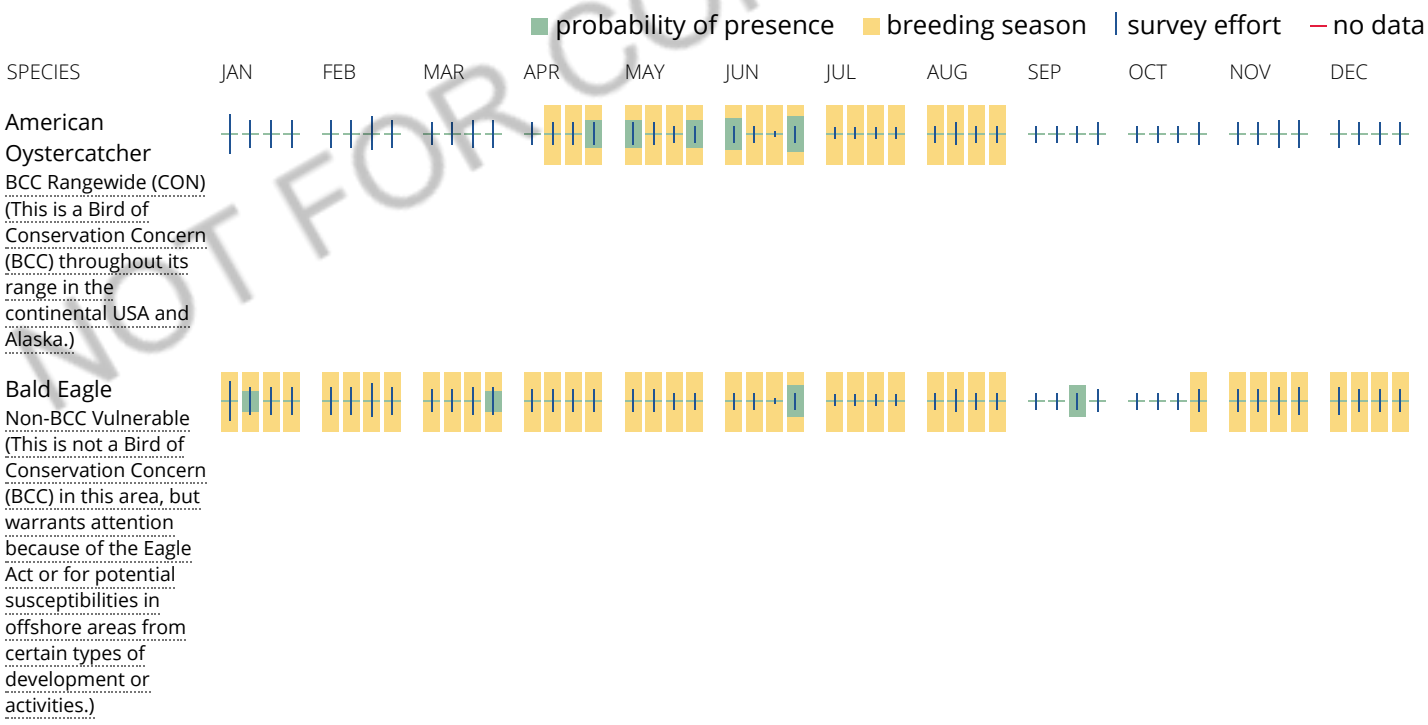
Survey Effort (|)
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (–)
A week is marked as having no data if there were no survey events for that week.

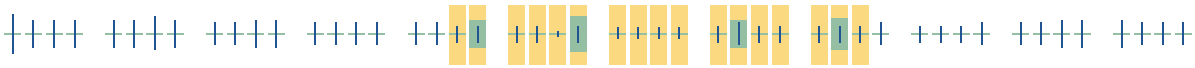
Survey Timeframe
Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

NOT FOR CONSULTATION

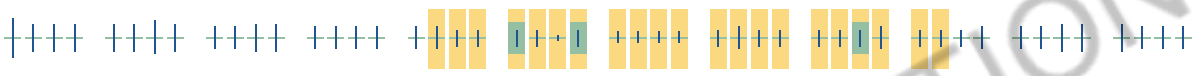


Black Scoter
Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)

Black Skimmer
BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



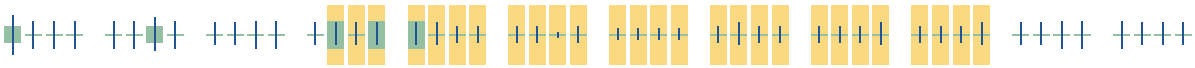
Black-billed Cuckoo
BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



Bonaparte's Gull
Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)

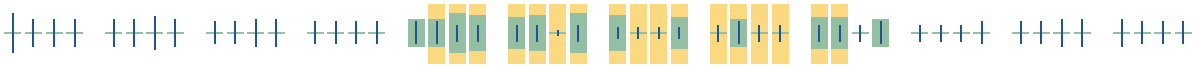
Canada Warbler
BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

Common Loon
Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)

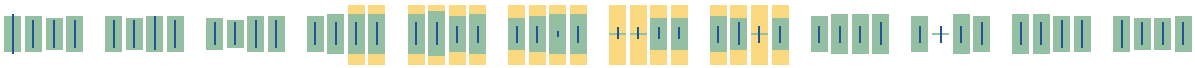


NOT FOR CONSULTATION

Common Tern
Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)

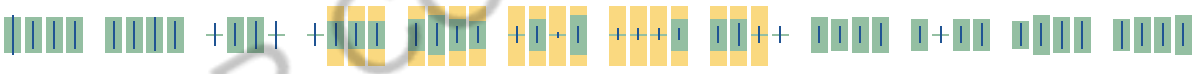


Double-crested Cormorant
Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)



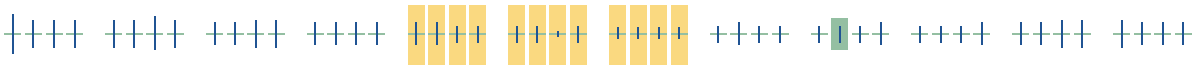
Dunlin
BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)

Great Black-backed Gull
Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)

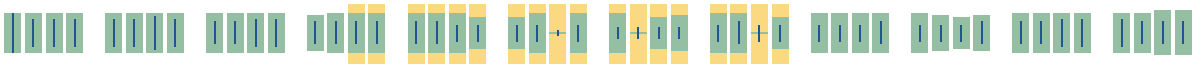


NOT FOR CONSULTATION

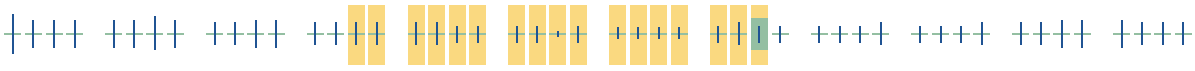
SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Gull-billed Tern BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)												



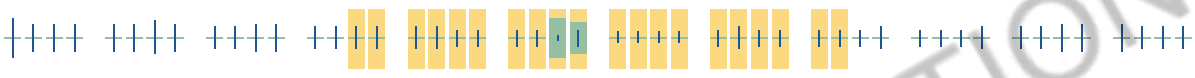
Herring Gull
Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)



Kentucky Warbler
BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



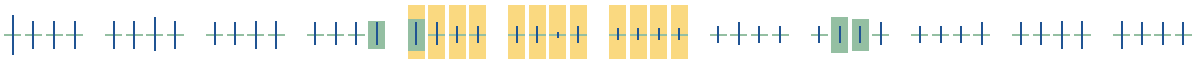
Least Tern
BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)



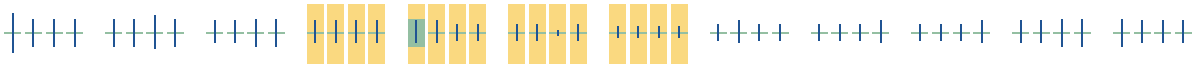
Lesser Yellowlegs
BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

Long-tailed Duck
Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)

Prairie Warbler
BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



Prothonotary Warbler
BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



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Red-breasted Merganser
Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)

Red-headed Woodpecker
BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

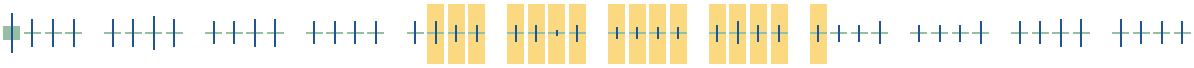
Red-throated Loon
BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

Ring-billed Gull
Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)

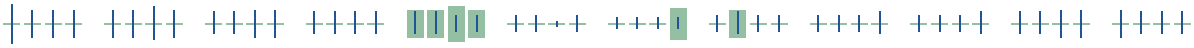
NOT FOR CONSULTATION

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Ruddy Turnstone BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)												
Rusty Blackbird BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)												

Saltmarsh Sparrow
BCC Rangewide (CON)
(This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

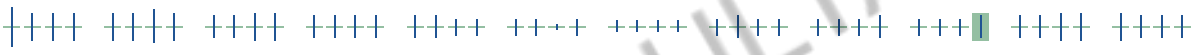


Semipalmated Sandpiper
BCC Rangewide (CON)
(This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

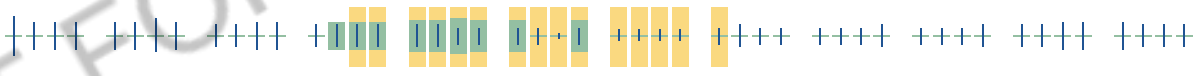


Short-billed Dowitcher
BCC Rangewide (CON)
(This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

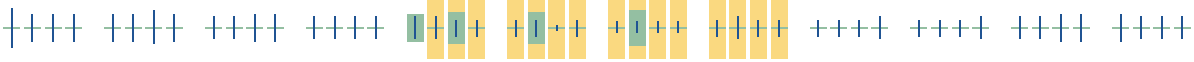
Surf Scoter
Non-BCC Vulnerable
(This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)



Willet
BCC Rangewide (CON)
(This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



Wood Thrush
BCC Rangewide (CON)
(This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



NOT FOR CONSULTATION

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures and/or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the E-bird Explore Data Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets .

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: The Cornell Lab of Ornithology All About Birds Bird Guide, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

NOT FOR CONSULTATION

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the Diving Bird Study and the nanotag studies or contact Caleb Spiegel or Pam Loring.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

NOT FOR CONSULTATION

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

WETLAND INFORMATION IS NOT AVAILABLE AT THIS TIME

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the NWI map to view wetlands at this location.

NOT FOR CONSULTATION

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

USFWS Letter
ATTACHMENT 4

STREAMLINED CONSULTATION FORM

Northern Long-Eared Bat 4(d) Rule Streamlined Consultation Form

Federal agencies should use this form for the optional streamlined consultation framework for the northern long-eared bat (NLEB). This framework allows federal agencies to rely upon the U.S. Fish and Wildlife Service's (USFWS) January 5, 2016, intra-Service Programmatic Biological Opinion (BO) on the final 4(d) rule for the NLEB for section 7(a)(2) compliance by: (1) notifying the USFWS that an action agency will use the streamlined framework; (2) describing the project with sufficient detail to support the required determination; and (3) enabling the USFWS to track effects and determine if reinitiation of consultation is required per 50 CFR 402.16.

This form is not necessary if an agency determines that a proposed action will have no effect to the NLEB or if the USFWS has concurred in writing with an agency's determination that a proposed action may affect, but is not likely to adversely affect the NLEB (i.e., the standard informal consultation process). Actions that may cause prohibited incidental take require separate formal consultation. Providing this information does not address section 7(a)(2) compliance for any other listed species.

Information to Determine 4(d) Rule Compliance:	**YES**	**NO**
1. Does the project occur wholly outside of the WNS Zone[1]?	☐	☒
2. Have you contacted the appropriate agency[2] to determine if your project is near known hibernacula or maternity roost trees?	☒	☐
3. Could the project disturb hibernating NLEBs in a known hibernaculum?	☐	☒
4. Could the project alter the entrance or interior environment of a known hibernaculum?	☐	☒
5. Does the project remove any trees within 0.25 miles of a known hibernaculum at any time of year?	☐	☒
6. Would the project cut or destroy known occupied maternity roost trees, or any other trees within a 150-foot radius from the maternity roost tree from June 1 through July 31.	☐	☒

You are eligible to use this form if you have answered yes to question #1 **or** yes to question #2 **and** no to questions 3, 4, 5 and 6. The remainder of the form will be used by the USFWS to track our assumptions in the BO.

Agency and Applicant[3] (Name, Email, Phone No.):

Alicia Shultz
Senior Environmental Scientist
New York State Homes & Community Renewal
Governor's Office of Storm Recovery
38-40 State St.,408N, Hampton Plaza, Albany, NY 12207
(518) 474-0647 | cell (917) 376-9003 Alicia.Shultz@nyshcr.org |

[1] http://www.fws.gov/midwest/endangered/mammals/nleb/pdf/WNSZone.pdf
[2] See http://www.fws.gov/midwest/endangered/mammals/nleb/nhisites.html
[3] If applicable - only needed for federal actions with applicants (e.g., for a permit, etc.) who are party to the consultation.

Freeport Power Plant No. 2 Resiliency Project
Project Name: Freeport Power Plant No. 2 Resiliency Project

Project Location (include coordinates if known): - 40° 38’ 39.86” North and 73° 34’ 05.73” West

289 Buffalo Ave, Village of Freeport, Nassau County, NY

Basic Project Description (provide narrative below or attach additional information):

This project consists of design and construction of the long-term and permanent flood protection for the Freeport Electric Power Plant 2 infrastructure. Freeport Power Plant 2 is located in the Village of Freeport and is located on a peninsula of land adjacent to Freeport Creek and Stadium Park Canal (Figure 1 and Figure 2). The project consists of design and construction the following flood hazard risk reduction measures:

1. Installation of approximately 1,300 linear feet of flood wall constructed of vinyl sheet pile (26 feet long piles). The flood wall bottom wall elevation is designed at -12.0 ft and the wall top elevation is 14.0 ft. feet. The estimated height of sheet pile wall above existing grade ranges from 4.2 feet to 8.3 feet;
2. Construction of approximately360 linear feet of aluminum flood plank wall with concrete footing (one foot deep and three feet wide) placed in concrete columns, and temporary relocation of existing chain link fences as required for construction.
3. Provision for a temporary water tight flood gate at the entrance to the existing parking lot;
4. Installation of a sluice gate to the bottom of the existing sound wall;
5. Construction of a new duplex stormwater duplex pump station with a 6 inch discharge pipe to the existing 12 inch storm sewer;
6. Installation of a new 250 gallon per minute spare pump to the existing fuel oil room;
7. Installation of an inline outfall check valve and the construction of new manhole at Outfall No. 2; and
8. Construction of a new 10 gallon per minute below grade sewer pump station (emergency only) and a sewer check valve will be an alternate based on available funds.

A 60% Design for these eight (8) flood hazard risk reduction measures has been completed by P.W Grosser Consulting Engineers and dated 10/19/18.

The implementation of these measures at Freeport Power Plant No. 2 will significantly reduce risk of facility damage due to water intrusion or inundation from sudden heavy rainstorms, extreme tidal conditions, tropical storms, and hurricanes. In addition, the risk of contamination from onsite leaking oil tanks will be significantly reduced. Further, plant facilities such as structures, machinery, gas compressors, on-site generators, control houses, and transformers will attain higher levels of service and customer reliability with the added flood protection.

General Project Information	**YES**	**NO**
Does the project occur within 0.25 miles of a known hibernaculum?	☐	☒

Does the project occur within 150 feet of a known maternity roost tree?	☐	☒
Does the project include forest conversion[4]? (if yes, report acreage below)	☐	☒
Estimated total acres of forest conversion		
If known, estimated acres[5] of forest conversion from April 1 to October 31		
If known, estimated acres of forest conversion from June 1 to July 31[6]		
Does the project include timber harvest? (if yes, report acreage below)	☐	☒
Estimated total acres of timber harvest		
If known, estimated acres of timber harvest from April 1 to October 31		
If known, estimated acres of timber harvest from June 1 to July 31		
Does the project include prescribed fire? (if yes, report acreage below)	☐	☒
Estimated total acres of prescribed fire		
If known, estimated acres of prescribed fire from April 1 to October 31		
If known, estimated acres of prescribed fire from June 1 to July 31		
Does the project install new wind turbines? (if yes, report capacity in MW below)	☐	☒
Estimated wind capacity (MW)		

Agency Determination:

By signing this form, the action agency determines that this project may affect the NLEB, but that any resulting incidental take of the NLEB is not prohibited by the final 4(d) rule.

If the USFWS does not respond within 30 days from submittal of this form, the action agency may presume that its determination is informed by the best available information and that its project responsibilities under 7(a)(2) with respect to the NLEB are fulfilled through the USFWS January 5, 2016, Programmatic BO. The action agency will update this determination annually for multi-year activities.

The action agency understands that the USFWS presumes that all activities are implemented as described herein. The action agency will promptly report any departures from the described activities to the appropriate USFWS Field Office. The action agency will provide the appropriate USFWS Field Office with the results of any surveys conducted for the NLEB. Involved parties will promptly notify the appropriate USFWS Field Office upon finding a dead, injured, or sick NLEB.

Signature: _____ Date Submitted: __01/28/2019

[4] Any activity that temporarily or permanently removes suitable forested habitat, including, but not limited to, tree removal from development, energy production and transmission, mining, agriculture, etc. (see page 48 of the BO).
[5] If the project removes less than 10 trees and the acreage is unknown, report the acreage as less than 0.1 acre.
[6] If the activity includes tree clearing in June and July, also include those acreage in April to October.

USFWS Letter
ATTACHMENT 5

NYSDEC JURISDICTIONAL INQUIRY

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife
625 Broadway, 5th Floor, Albany, NY 12233-4750
P: (518) 402-8924 | F: (518) 402-8925
www.dec.ny.gov

January 28, 2019

Ms. Alicia Shultz
Governor's Office of Storm Recovery
30-40 State St., Hampton Plaza
Albany, NY 12207

RE: Freeport Power Plant No. 2 Resiliency Project

Dear Ms. Shultz,

We received your jurisdictional inquiry request for the project involving the Freeport Power Plant No. 2, located at 289 Buffalo Avenue, Village of Freeport, Nassau County. It is our understanding that this project will involve the design and construction of a number of measures to increase the flood resiliency of the power plant. Based on our understanding of the project, and the NYS Resources map created by Amanda Bailey on 1/28/2019 (attached), we have the following comments on the project:

STATE-LISTED SPECIES

All threatened or endangered species are subject to regulation under Article 11, Title 5 of the Environmental Conservation Law and a permit is required for a taking of that species pursuant to 6 NYCRR Part 182. Besides death of individuals, taking includes harassment, interference with essential behaviors, and adverse modification of habitat. **If the site is in close proximity to known occurrences of state-protected species, additional information on the proposal will be required by the appropriate regional office for a determination on the need for an incidental take permit.**

We have reviewed the available information in the New York Natural Heritage Program database on known occurrences of rare or state-listed bat species. This project area does not occur in the immediate vicinity of known occurrences of rare or state-listed bat species (see NYS Resources map, attached). The major concern for bat species in relation to this project would be the destruction of potential roosts and roosting habitat that may occur if tree clearing is required. Because this project does not take place within known occupied habitat, there are no restrictions on cutting.

The absence of data does not necessarily mean that any rare or state-listed bat species do not exist on or adjacent to the proposed site. For most sites, comprehensive field surveys have not been conducted. We cannot provide a definitive statement on the presence of all rare or state-listed bat species. To avoid potential take, DEC *recommends* that any tree clearing be conducted between November 1 and March 31, when bats are inactive in hibernation sites. DEC also recommends that all snag and cavity trees remain uncut, unless their removal is necessary for protection of human life and property. For more information, please refer to the DEC Northern long-eared bat protective measures guidance, available at: http://www.dec.ny.gov/animals/106090.html.

This document is only intended to address state-listed bat species. Other rare or state-listed species, natural communities or other significant habitats may exist within the project area and would require additional review. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

OTHER

USFWS Long Island Field Office

If a federal agency is involved in the project, or if federal funding is used, there are additional considerations for federally listed species. Section 7(a)(1) of the Endangered Species Act requires federal agencies to use their authorities to conserve listed species. Section 7(a)(2) requires federal agencies to consult on any action that may affect a listed species.

Other permits from this Department or other agencies may be required for projects conducted on this property now or in the future. Also, regulations applicable to the location subject to this determination occasionally are revised and you should, therefore, verify the need for permits if your project is delayed or postponed. This determination regarding the need for permits will remain effective for a maximum of one year unless you are otherwise notified. Applications may be downloaded from our website at www.dec.ny.gov under “Programs” then “Division of Environmental Permits.”

Please contact this office if you have questions regarding the above information. Thank you.

Sincerely,

Amanda Bailey

Amanda Bailey
Division of Fish and Wildlife
Amanda.bailey@dec.ny.gov
518-402-8859

Cc: May O’Malley, NYSDEC Division of Environmental Permits

NEW YORK
STATE OF
OPPORTUNITY

Department of
Environmental
Conservation

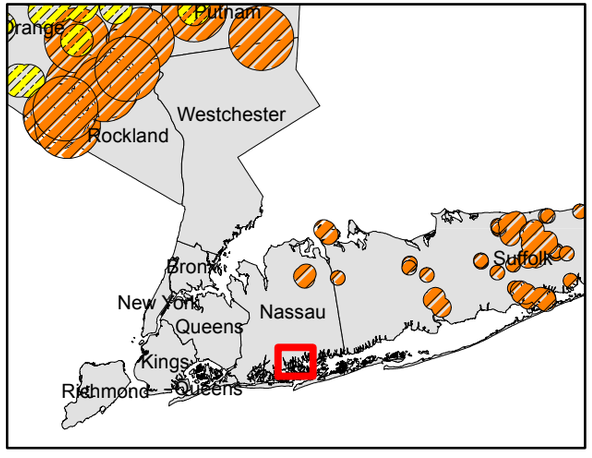
0 0.03 0.06 0.12 0.18 0.24
Miles

1 inch = 500 feet

NYS Resources Map

Freport Power Plant #2 Resiliency
Village of Freeport, Nassau County

Prepared by AMB on 1/28/2019



Project Area

Indiana Bat

Northern Long-eared Bat

Disclaimer: this map was prepared by the NYSDEC using the most current data available. It is deemed accurate but is not guaranteed. NYSDEC is not responsible for any inaccuracies in the data and does not necessarily endorse any interpretations or products derived from the data. This map may contain information that is considered sensitive and therefore the distribution of this map is strictly prohibited.

EAF
ATTACHMENT 6
NYSDEC NHP
CONSULTATION
RESPONSE LETTER

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife, New York Natural Heritage Program
625 Broadway, Fifth Floor, Albany, NY 12233-4757
P: (518) 402-8935 | F: (518) 402-8925
www.dec.ny.gov

December 11, 2018

Alicia Shultz
Governor's Office of Storm Recovery
38-40 State Street
Albany, NY 12207

Re: Freeport Power Plant No. 2 Resiliency Project
County: Nassau Town/City: Hempstead

Dear Ms. Shultz:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to the above project.

We have no records of federally or state-listed animals or plants, nor significant natural communities, directly on the project site; nor any federally listed plants or animals in its vicinity.

Directly across the Merrick River on the east side of the project site, and on the salt marsh island just to the south of the project site, are portions of the state-significant salt marsh complex of Hempstead Bay. Composed of the natural community types **low salt marsh**, **high salt marsh**, and **salt panne**, the marsh complex is very large and in moderately good condition. We recommend that the project work be conducted so as to avoid any impacts, including runoff of sediments, on the salt marsh habitat and surrounding waters.

The salt marshes along the Meadowbrook State Parkway, including those close to the project site, have documented breeding of **short-eared owl** (*Asio flammeus*, NYS-listed as Endangered). For information about any permit considerations for your project, contact the Permits staff at the NYSDEC Region 1 Office at dep.r1@dec.ny.gov, (631) 444-0365.

For most sites, comprehensive field surveys have not been conducted. We cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other resources may be required to fully assess impacts on biological resources.

Sincerely,

Nick Conrad

Nicholas Conrad
Information Resources Coordinator
New York Natural Heritage Program

1399

EAF
ATTACHMENT 7
NYS SHPO RESPONSE
AND
TRIBAL RESPONSE

NEW YORK STATE OF OPPORTUNITY. | Parks, Recreation, and Historic Preservation

ANDREW M. CUOMO
Governor

ROSE HARVEY
Commissioner

December 7, 2018

Alicia Shultz
New York State Homes & Community Renewal
38 State Street
Albany, NY 12207

Re: GOSR/ NYSHCR/ HUD CDBG-DR/ Flood Resiliency:
Freeport Power Plant No. 2
289 Buffalo Ave, Village of Freeport/ Nassau County.
18PR7710

Dear Ms. Shultz:

Thank you for requesting the comments of the New York State Historic Preservation Office (SHPO). We have reviewed the submitted materials in accordance with Section 106 of the National Historic Preservation Act of 1966. These comments are those of the SHPO and relate only to Historic/ Cultural resources. They do not include other environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the National Environmental Policy Act and/or the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8).

Based on this review, it is the opinion of SHPO that there will be No Historic Properties Affected by the proposed undertaking.

If I can be of further assistance, please contact me at (518) 268-2187 Larry.moss@parks.ny.gov

Sincerely,

LMoss

Larry K Moss,
Historic Preservation Technical Specialist

The Delaware Tribe of Indians of Oklahoma
Delaware Tribe Historic Preservation
P.O. Box 64
Pocono Lake, PA 18347
sbachor@delawaretribe.org

December 12, 2018

Governor's Office of Storm Recovery
Bureau of Environmental Review and Assessment
Att: James McAllister
500 Bi-County Boulevard, Suite 100
Farmingdale, NY 11735

Re: Section 106 Compliance for the Freeport Power Plant N0. 2 Resiliency Village of Freeport

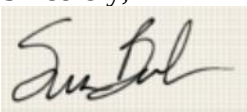
Mr. King,

Thank you for sending the Delaware Tribe additional information regarding the above referenced project. Our review indicates that there are no culturally significant areas within the proposed project area because of previous disturbance.

In the event a concentration of artifacts and/or in the unlikely event any human remains are accidentally unearthed during the project that all work is halted until the Delaware Tribe of Indians is informed of the inadvertent discovery and a qualified archaeologist can evaluate the find.

We appreciate your cooperation and look forward to working together on our shared interests in preserving Delaware cultural heritage. If you have any questions, feel free to contact this office by phone at (610) 761-7452 or by e-mail at sbachor@delawaretribe.org..

Sincerely,



Susan Bachor, M.A.
Archaeologist
Delaware Tribe Historic Preservation

EAF
ATTACHMENT 8
SOLE SOURCE AQUIFER
ANALYSIS

NON-HOUSING/PROJECT ACTIVITY INITIAL SCREEN CRITERIA
Environmental Protection Agency (EPA) for Preliminary Sole Source Aquifer (SSA) Review

RE: CDBG-DR Funding Application, Freeport Power Plant No. 2 Resiliency
289 Buffalo Ave, Village of Freeport, Nassau County, NY

The New York State Governor's Office of Storm Recovery (GOSR) received a funding application for the Freeport Power Plant No. 2 Resiliency, located at Village of Freeport Power Plant No. 2, 289 Buffalo Ave, Village of Freeport, Nassau County, New York. This project is intended to harden and increase the resiliency of the facility so that it may continue to effectively provide services during future storm events or disasters. The proposed project is not located over a sole source aquifer.

This project consists of design and construction of the long-term and permanent flood protection for the Village of Freeport Electric Power Plant 2 infrastructure. The Village of Freeport Power Plant 2 is located in the Village of Freeport and is located on a peninsula of land adjacent to Freeport Creek and Stadium Park Canal (Figure 1 and Figure 2). The project consists of design and construction the following flood hazard risk reduction measures:

1. Installation of approximately 1,300 linear feet of flood wall constructed of vinyl sheet pile (26 feet long piles). The flood wall bottom wall elevation is designed at -12.0 ft and the wall top elevation is 14.0 ft. feet. The estimated height of sheet pile wall above existing grade ranges from 4.2 feet to 8.3 feet;
2. Construction of approximately360 linear feet of aluminum flood plank wall with concrete footing (one foot deep and three feet wide) placed in concrete columns, and temporary relocation of existing chain link fences as required for construction.
3. Provision for a temporary water tight flood gate at the entrance to the existing parking lot;
4. Installation of a sluice gate to the bottom of the existing sound wall;
5. Construction of a new duplex stormwater duplex pump station with a 6-inch discharge pipe to the existing 12-inch storm sewer;
6. Installation of a new 250 gallon per minute spare pump to the existing fuel oil room;
7. Installation of an inline outfall check valve and the construction of new manhole at Outfall No. 2; and
8. Construction of a new 10 gallon per minute below grade sewer pump station (emergency only) and a sewer check valve will be an alternate based on available funds.

A 60% Design for these eight (8) flood hazard risk reduction measures has been completed by P.W Grosser Consulting Engineers and dated 10/19/18 (Attachment 4).

The implementation of these measures at Freeport Power Plant No. 2 will significantly reduce risk of facility damage due to water intrusion or inundation from sudden heavy rainstorms, extreme tidal conditions, tropical storms, and hurricanes. In addition, the risk of contamination from onsite leaking oil tanks will be significantly reduced. Further, plant facilities such as structures, machinery, gas compressors, on-site generators, control houses, and transformers will attain higher levels of service and customer reliability with the added flood protection.

Pursuant to the Disaster Relief Appropriations Act, 2013 (Public Law 113-2) and the Housing and Community Development Act (42 U.S.C. § 5301 et seq.), GOSR is acting under the auspices of New York State Homes and Community Renewal's Housing Trust Fund Corporation as a recipient of Community Development Block Grant – Disaster Recovery ("CDBG-DR") funds from the United States Department of Housing and Urban Development ("HUD") and is the entity responsible for compliance with the HUD NEPA environmental review procedures set forth in 24 C.F.R. Part 58. 24 C.F.R. Part 58 requires GOSR to review projects for conformance with the Safe Drinking Water Act of 1974 (42 U.S.C. 201, 300(f) et seq., and 21 U.S.C. 349) as amended, and Environmental Protection Agency (EPA) regulations pertaining to Sole Source Aquifers found at 40 C.F.R. Part 149.

In accordance with the Memorandum of Understanding ("MOU") between EPA and HUD dated August 24, 1990, GOSR completed the Non-Housing/Project Activity Initial Screen Criteria for the Freeport Power Plant No. 2 Resiliency. According to the attached completed review, no formal consultation is required with EPA.

ATTACHMENT 2.A

NON-HOUSING/PROJECT ACTIVITY INITIAL SCREEN CRITERIA

The following list of criteria questions are to be used as an initial screen to determine which **non-housing** projects/activities should be forwarded to the Environmental Protection Agency (EPA) for Preliminary Sole Source Aquifer (SSA) Review. (For housing projects/activities see Attachment 2.B). If any of the questions are answered affirmatively, Attachment 3, SSA Preliminary Review Requirements, should also be completed. The application/final statement, this Attachment, Attachment 3, and any other pertinent information should than be forwarded to EPA at the address below.

Any project/activity not meeting the criteria in this Attachment, but suspected of having a potential adverse effect on the Sole Source Aquifer should also be forwarded.

CRITERIA QUESTIONS	YES	NO	N/A
1. Is the project/activity located within a currently designated or proposed groundwater sensitive area such as a special Ground Water Protection Area, Critical Supply Area, Wellhead Protection Area, etc.? [This information can be obtained from the County or Regional Planning board, the local health department, the State health department or the State environmental agency.]	☐	☒	☐
2. Is the project/activity located within a one-half mile radius (2640 feet) of a current or proposed public water supply well or wellfield? [This information can be obtained from the local health department, the State health department or the State environmental agency.]	☐	☒	☐

3. Will the project/activity include or directly cause (check appropriate items):

	YES	NO	N/A
construction or expansion of solid waste disposal, recycling or conversion facilities	☐	☒	☐
construction or expansion or closure of landfills	☐	☒	☐
construction or expansion of water supply facilities	☐	☒	☐
construction or expansion of on-site wastewater treatment plants or sewage trunk lines	☐	☒	☐
construction or expansion of gas or petroleum trunk lines greater than 1320 feet	☐	☒	☐
construction or expansion of railroad spurs or similar extensions	☐	☒	☐
construction or expansion of municipal sewage treatment plants	☐	☒	☐

4. Will the project/activity include storage or handling of any hazardous constituents as listed in Attachment 4, Hazardous Constituents	☐	☒	☐
5. Will the project/activity include bulk storage of petroleum in underground or above ground tanks in excess of 1100 gallons? (Please give what assurance they are done in a proper manner.)	☐	☒	☐
6. Will the project/activity require a federal or state discharge elimination permit or modification of an existing permit?	☐	☒	☐

This attachment was completed by:

Name:	Thomas A. Fralick, PG
Title:	Senior Geologist
Address:	LiRo Engineers Inc. 690 Delaware Avenue Buffalo, NY 14209
Telephone number:	(716) 598-3804
Date:	November 28, 2018

Project Description

This project consists of design and construction of the long-term and permanent flood protection for the Village of Freeport Electric Power Plant 2 infrastructure. The Village of Freeport Power Plant 2 is located in the Village of Freeport and is located on a peninsula of land adjacent to Freeport Creek and Stadium Park Canal (Figure 1 and Figure 2). The project consists of design and construction the following flood hazard risk reduction measures:

1. Installation of approximately 1,300 linear feet of flood wall constructed of vinyl sheet pile (26 feet long piles). The flood wall bottom wall elevation is designed at -12.0 ft and the wall top elevation is 14.0 ft. feet. The estimated height of sheet pile wall above existing grade ranges from 4.2 feet to 8.3 feet;
2. Construction of approximately360 linear feet of aluminum flood plank wall with concrete footing (one foot deep and three feet wide) placed in concrete columns, and temporary relocation of existing chain link fences as required for construction.
3. Provision for a temporary water tight flood gate at the entrance to the existing parking lot;
4. Installation of a sluice gate to the bottom of the existing sound wall;
5. Construction of a new duplex stormwater duplex pump station with 6 inch discharge pipe to existing 12 inch storm sewer ;
6. Installation of a new 250 gallon per minute spare pump to the existing fuel oil room
7. Installation of a inline outfall check valve and construction of new manhole at Outfall No. 2 and
8. Construction of a new 10 gallon per minute below grade sewer pump station (emergency only) and a sewer check valve will be an alternate based on available funds.

A 60% Design for these eight (8) flood hazard risk reduction measures has been completed by P.W Grosser Consulting Engineers and dated 10/19/28 (Attachment A).

The implementation of these measures at Freeport Power Plant No. 2 will significantly reduce risk of facility damage due to water intrusion or inundation from sudden heavy rainstorms, extreme tidal conditions, tropical storms, and hurricanes. In addition, the risk of contamination from onsite leaking oil tanks will be significantly reduced. Further, plant facilities such as structures, machinery, gas compressors, on-site generators, control houses, and transformers will attain higher levels of service and customer reliability with the added flood protection.

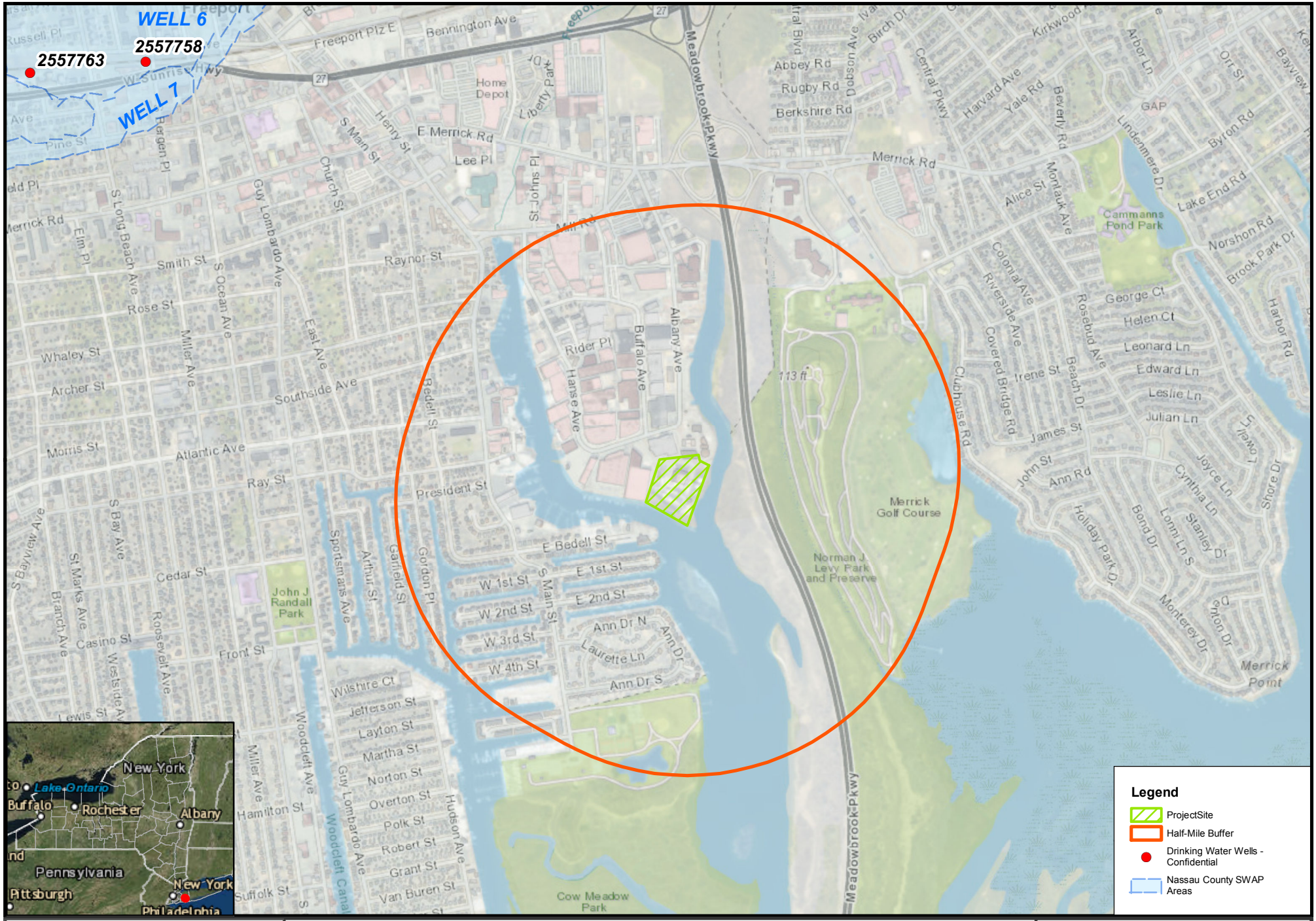
Figure 1 shows the regional location of the project. Figure 2 shows an aerial view of the project site.

Public Water Supply

The proposed project will not generate any additional demand for water.

There are no public water supply wells located within a one half mile radius of the project location at Village of Freeport Power Plant No. 2, 289 Buffalo Ave, Village of Freeport, Nassau County, New York.

Figure 3 shows the locations of all public water wells located within a one half mile radius of the project site.



0 1,050 2,100 Feet

Protection for Freeport's Power Plant II: Hardening & Resiliency

289 Buffalo Avenue, Freeport, New York

Half-Mile Buffer SSA and SWAP Analysis

Governor's Office of Storm Recovery

N

Drawn By: ASL | Version: 1.0 | Date:11/26/2018

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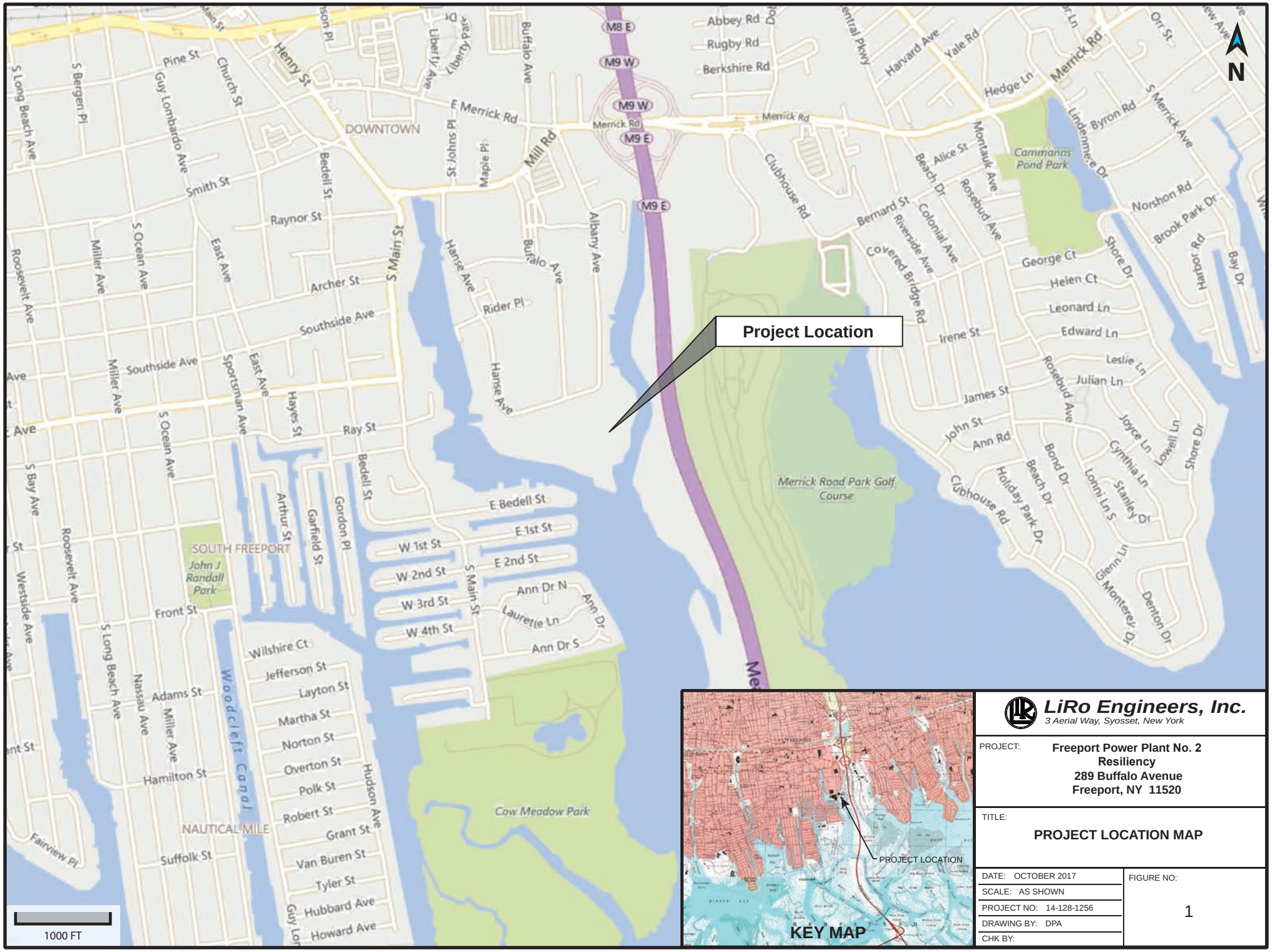
In using this information, users further agree to indemnify,defend, and hold harmless New York State for any and all liability of any nature arising out of or resulting from the lack of accuracy or correctness of the information, or the use of the information. New York State reserves the right to make changes and updates to the information at any time and without notice.

J:\14-128-1256 CDBG-DR Projects\Projects\Freeport Power Plant II\Freeport Power Site Plan.ai



LiRo Engineers, Inc.
3 Aerial Way, Syosset, New York

PROJECT: **Freeport Power Plant No. 2 Resiliency**
289 Buffalo Avenue
Freeport, NY 11520

TITLE: **PROJECT LOCATION MAP**

DATE: OCTOBER 2017	FIGURE NO:
SCALE: AS SHOWN	1
PROJECT NO: 14-128-1256	
DRAWING BY: DPA	
CHK BY:	

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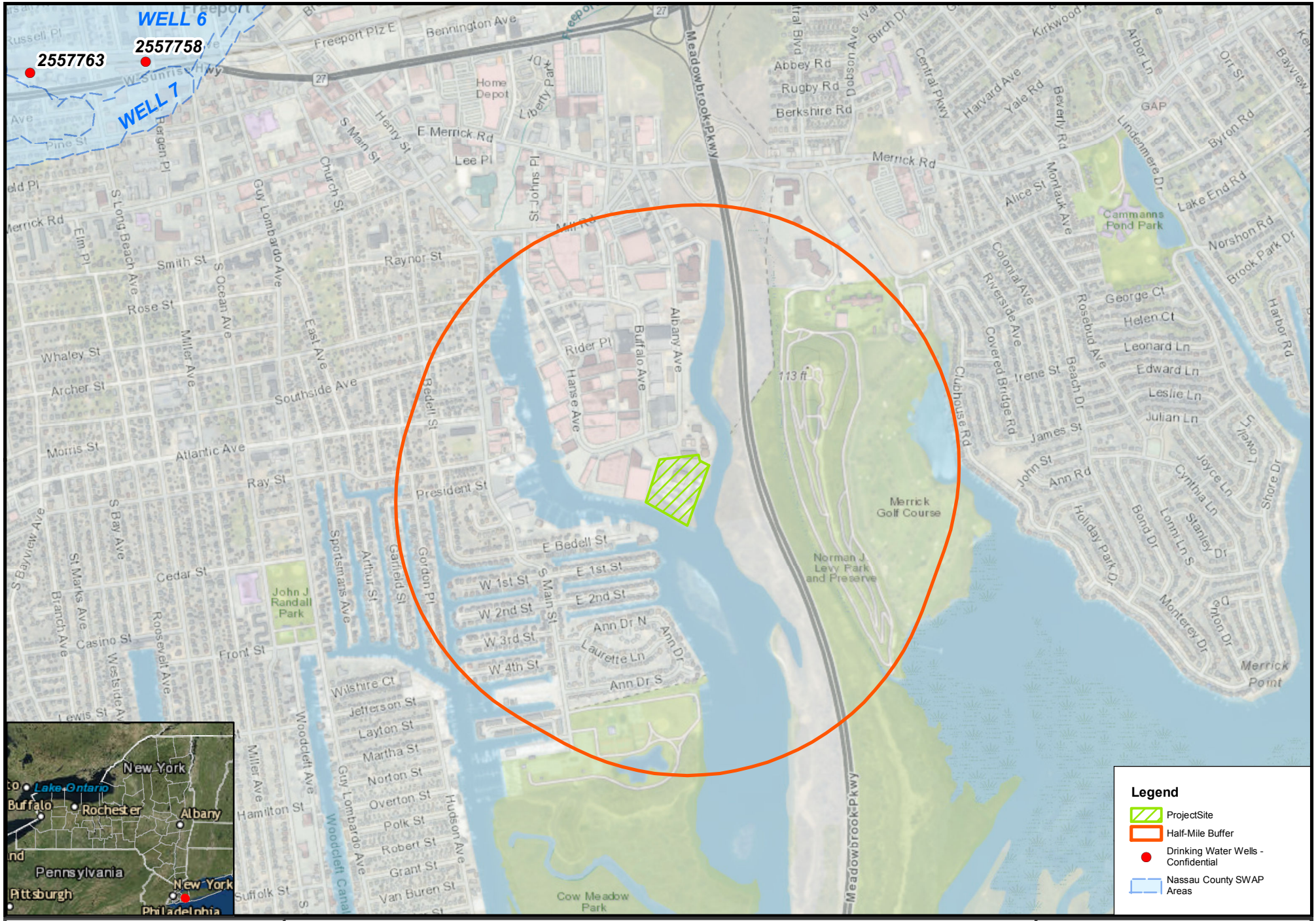
LiRo Engineers, Inc.
3 Aerial Way, Syosset, New York

PROJECT:
Freeport Power Plant No. 2
Resiliency
289 Buffalo Avenue
Freeport, NY 11520

TITLE:
PROJECT LOCATION AERIAL

DATE: OCTOBER 2017	FIGURE NO:
SCALE: AS SHOWN	2
PROJECT NO: 14-128-1256	
DRAWING BY: DPA	
CHK BY:	



0 1,050 2,100 Feet

Protection for Freeport's Power Plant II: Hardening & Resiliency

289 Buffalo Avenue, Freeport, New York

Half-Mile Buffer SSA and SWAP Analysis

Governor's Office of Storm Recovery

N

Drawn By: ASL | Version: 1.0 | Date:11/26/2018

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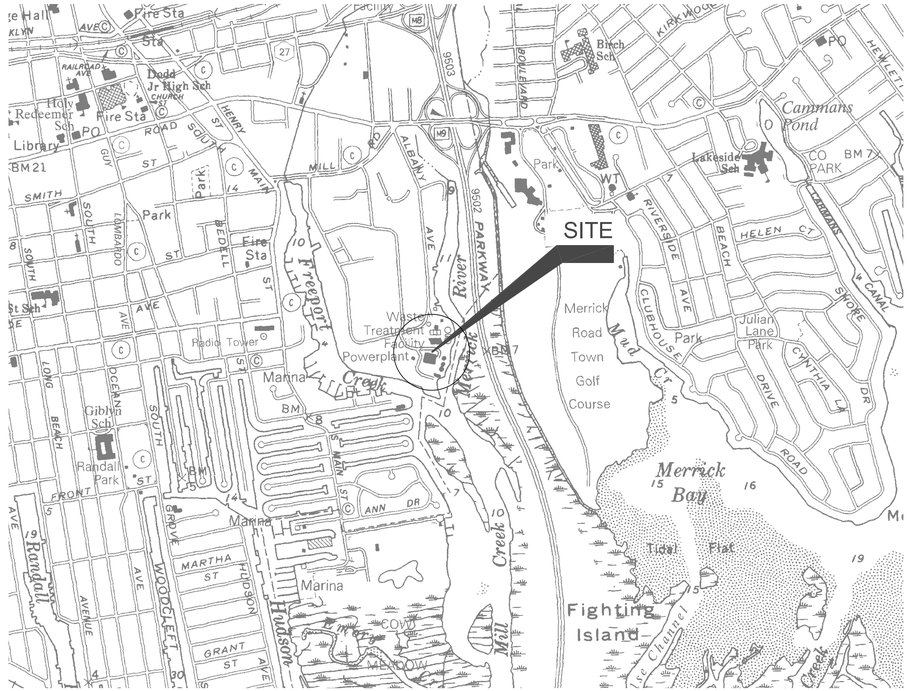
In using this information, users further agree to indemnify,defend, and hold harmless New York State for any and all liability of any nature arising out of or resulting from the lack of accuracy or correctness of the information, or the use of the information. New York State reserves the right to make changes and updates to the information at any time and without notice.

POWER PLANT NO. 2

FREEPORT, TOWN OF HEMPSTEAD

NASSAU COUNTY, NEW YORK

PROPOSED PROTECTION OF POWER PLANT NO. 2 PROJECT



KEY MAP
SCALE: 1" = 1,000'

0 1,000 2,000
SCALE: 1" = 1,000'

PLANS

ISSUED FOR: 60% DESIGN DOCUMENTS
ISSUE DATE: OCTOBER 19, 2018
LAST REVISED: OCTOBER 19, 2018

PROJECT CONTACTS

ENGINEER:
P.W. GROSSER CONSULTING
ENGINEER & HYDROGEOLOGIST, P.C.
630 JOHNSON AVENUE, SUITE 7, BOHEMIA, NY 11716
TEL (631) 589-6353 FAX (631) 589-8705

SITE INFORMATION

OWNER:
VILLAGE OF FREEPORT
46 NORTH OCEAN AVENUE
FREEPORT, NEW YORK 11520

SHEET INDEX

NO.	TAG	TITLE	LAST REVISED
1	G-100	COVER SHEET	10/18/2018
2	G-101	NOTES	10/18/2018
3	C-100	EXISTING SITE PLAN	10/18/2018
4	C-101	PROPOSED SITE PLAN	10/18/2018
5	C-500	SHEET PILING DETAILS I	10/18/2018
6	C-501	SHEET PILING DETAILS II	10/18/2018
7	C-502	FLOOD WALL DETAILS I	10/18/2018
8	C-503	FLOOD WALL DETAILS II	10/18/2018
9	C-504	OUTFALL CHECK VALVE DETAILS	10/18/2018
10	C-505	STORMWATER PUMP STATION DETAILS	10/18/2018
11	C-506	SEWAGE PUMP STATION DETAILS	10/18/2018

REFERENCE SHEET = DRAWINGS USED IN ANALYSIS
SET DETLETED TO RESDUCE SIZE OF SUBMITTAL

P.W. GROSSER CONSULTING
ENGINEER &
HYDROGEOLOGIST, P.C.
630 JOHNSON AVE. • SUITE 7
BOHEMIA • NY • 11716-2618
PH: (631)589-6353 • FX: (631)589-8705
E-MAIL: INFO@PWGROSSER.COM

EAF
ATTACHMENT 9
SUMMARY 5-STEP FLOODPLAIN AND WETLAND ANALYSIS

SUMMARY 5-STEP FLOODPLAIN AND WETLAND ANALYSIS FOR FREEPORT POWER PLANT NO. 2 RESILIENCY PROJECT 289 BUFFALO AVENUE, VILLAGE OF FREEPORT, NASSAU COUNTY, NEW YORK

Governor's Office of Storm Recovery
U.S. Department of Housing and Urban Development Community Development Block Grant – Disaster Recovery

Lori A. Shirley – Certifying Environmental Officer
March 5, 2019

Below is a summary of the analysis conducted in accordance with 24 CFR Part 55 (Floodplain Management and Protection of Wetlands) and Executive Orders 11988 (Floodplain Management) and 11990 (Protection of Wetlands).

Pursuant to 24 CFR §55.12(a)(4), steps 2, 3, and 7 of the 8-step process for floodplain management and protection of wetlands and does not apply to projects involving the improvement of existing nonresidential buildings and structures, in communities that are in the Regular Program of the National Flood Insurance Program (NFIP) and are in good standing, provided that the action does not meet the thresholds for "substantial improvement" under §55.2(b)(10) and that the footprint of the structure and paved areas is not significantly increased.

This project consists of design and construction of the long-term and permanent flood protection for the Freeport Electric Power Plant 2 Resiliency Project. Freeport Power Plant 2 is located in the Village of Freeport on a peninsula of land adjacent to Freeport Creek and Stadium Park Canal. The project consists of design and construction the following flood hazard risk reduction measures:

1. Installation of approximately 1,300 linear feet of flood wall constructed of vinyl sheet piles (pile length varies) / demolition of existing chain link fences (as shown on the plans). The flood wall bottom wall elevation is designed at -12.0 ft. and the wall top elevation is 14.0 feet. The estimated height of sheet pile wall above existing grade ranges from 4.2 feet to 8.3 feet;
2. Construction of approximately 90 linear feet of removable section flood wall near the site's entrance consisting of an aluminum flood plank with concrete footings and removable aluminum "A"-frame mullions;
3. Installation of a new in-line check valve within the existing 36-inch, Outfall No. 1, storm water pipe;
4. Installation of a new mechanical joint plug valve at Outfall No. 2 in the discharge pipe from the existing oil-water separator in the mechanical equipment enclosure;
5. Installation of sound wall gap protection made of aluminum active flood planks at the bottom of the existing sound wall;
6. Construction of two (2) new duplex stormwater pump stations;
7. Installation of a new 250 gallon per minute spare pump in the existing pump house;
8. Construction of a new below grade emergency sewer pump station and two (2) sewer gate

valves.

A 100% Design for these eight (8) flood hazard risk reduction measure has been completed by P.W Grosser Consulting Engineers and dated 12/28/18(Attachment 1).

The implementation of these measures at Freeport Power Plant No. 2 will significantly reduce risk of facility damage due to water intrusion or inundation from sudden heavy rainstorms, extreme tidal conditions, tropical storms, and hurricanes. In addition, the risk of contamination from onsite leaking oil tanks will be significantly reduced. Further, plant facilities such as structures, machinery, gas compressors, on-site generators, control houses, and transformers will attain higher levels of service and customer reliability with the added flood protection.

Step 1: Determine if the proposed action is in a floodplain or a wetland.

Approximately 1,300 linear feet flood wall, 90 feet of removable section flood wall and other flood resiliency improvements encompass approximately 8 acres of adjacent banks and upland areas of the proposed Project site and are located in the Zone A (100-year Floodplain) and are adjacent to a federal "Riverine" wetland, as shown in the attached Figures. This 5-step analysis is provided for this project because it represents an improvement of existing structures that does not meet the thresholds for "substantial improvement" under §55.2(b) (10) and where the footprint of the structure and paved areas is not significantly increased.

Step 4: Identify and describe the proposed action's direct and indirect effects associated with occupying or modifying the floodplain or wetland.

The upland areas of the floodplain would be temporarily disturbed due to the installation of sheet piling and small excavations to install pumps and piping as part of the proposed Project. Construction activities would not involve excavation within waters of the United States. The proposed project would not increase the amount of impervious surface in the adjacent upland areas.

Step 5: Identify methods to minimize the potential adverse impacts within a floodplain and wetland and to restore and preserve the natural and beneficial values.

Because the project is resiliency hardening of existing shore parallel structures, replacement in kind of storm outfall valves and piping, installation of stormwater pumps and new sanitary lift pumps to existing sanitary lines the construction does not increase the lateral extents of the surface water drainage systems. The construction does not change the shoreline configuration or change any wetlands or natural communities. The construction increases the power plant's ability to withstand damage caused by high water events. There are no alternatives that do not involve work in the floodplain, as any construction on-site is technically within the floodplain. Precautions would be taken during construction to minimize the area of disturbance and duration of construction.

Step 6: Reevaluate the proposed action to determine if it is still practicable given its floodplain and wetland effects.

The implementation of this Project would mitigate stormwater damage to Freeport Power Plant II and allow for quicker recovery efforts after a flood event by migrating disruption of power generation. No changes in land use and no long-term damage or increase in size of the associated

floodplain would occur as a result of this project. As a result, the proposed action is still practicable.

Step 8: The proposed action can be implemented after the above steps have been completed.

The implementation of the proposed action will require additional federal and state permits, which could place additional design modifications or mitigation requirements on the project. The proposed project will adhere to the applicable conditions noted in the permit.