FIVE TOWNS DRAINAGE IMPROVEMENTS: CEDARHURST STORMWATER PUMP STATION NASSAU COUNTY, NEW YORK

Environmental Assessment

U.S. Department of Housing and Urban Development
New York State Homes and Community Renewal
New York State Governor's Office of Storm Recovery

April 23, 2020

Five Towns Drainage Improvements:
Cedarhurst Stormwater Pump Station Project

Environmental Assessment

April 23, 2020

Project Name: Five Towns Drainage Improvements: Cedarhurst Stormwater Pump Station

Project Location: Village of Cedarhurst, Nassau County, NY

Federal Agency: US Department of Housing and Urban Development (HUD)

Responsible Entity: New York State Homes and Community Renewal (HCR)
Governor's Office of Storm Recovery (GOSR)

Responsible Agency's Certifying Officer:
James McAllister, Certifying Officer
Bureau of Environmental Review and Assessment
Governor's Office of Storm Recovery
500 Bi-County Boulevard, Suite 300, Farmingdale, NY 11735
(631) 465-9677, James.McAllister@stormrecovery.ny.gov

Project Sponsor: Nassau County
Primary Contact:
Sean Sallie, AICP, Deputy Commissioner
Nassau County Department of Public Works
1194 Prospect Avenue
Westbury, NY 11590
(516) 571-9342 ssallie@nassaucounty.gov

Project NEPA Classification: 24 CFR 58.36 Environment Assessment Subject to 58.6

Certification	The undersigned hereby certifies that New York State Homes and Community Renewal has conducted an environmental review of the project identified above and prepared the attached environmental review record in compliance with all applicable provisions of the National Environmental Policy Act of 1969, as amended (42 USC Sec. 4321 et seq.) and its implementing regulations at 24 CFR Part 58.	
Signature	 James McAllister	
Date	April 23, 2020	
Environmental Review Prepared by:	CSA Group, PC 55 Broadway New York, New York 10006	GOSR 500 Bi-County Blvd. Farmingdale, NY 11735

CERTIFICATION OF NEPA CLASSIFICATION

It is the finding of the New York State Housing Trust Fund Corporation that the activities proposed in its 2020 NYS CDBG-DR project, Five Towns Drainage Improvements: Cedarhurst Stormwater Pump Station Project is:

Check the applicable classification.

☐ Exempt as defined in 24 CFR 58.34 (a).

☐ Categorically Excluded as defined in 24 CFR 58.35(b).

☐ Categorically Excluded as defined in 24 CFR 58.35(a) and no activities are affected by federal environmental statues and executive orders [i.e., exempt under 58.34(a)(12)].

☐ Categorically Excluded as defined in 24 CFR 58.35(a) and some activities are affected by federal environmental statues and executive orders.

☒ "Other" neither exempt (24 CFR 58.34(a)) nor categorically excluded (24 CFR 58.35).

☒ Part or all of the project is located in an area identified as a floodplain or wetland. For projects located in a floodplain or wetland, evidence of compliance with Executive Orders 11988 and/or 11990 is required.

For activities excluding those classified as "Other", attached is the appropriate Classification Checklist (Exhibit 2-4) that identifies each activity and the corresponding citation.

Signature of Certifying Officer

April 23, 2020
Date

James McAllister
Print Name

Certifying Environmental Officer
Title

CERTIFICATION OF SEQRA CLASSIFICATION

It is the finding of the New York State Housing Trust Fund Corporation that the activities proposed in its 2020 NYS CDBG-DR project, Five Towns Drainage Improvements: Cedarhurst Stormwater Pump Station Project constitutes a:

Check the applicable classification:

- ☐ Type I Action (6NYCRR Section 617.4)
- ☐ Type II Action (6NYCRR Section 617.5)
- ☒ Unlisted Action (not Type I or Type II Action)

Check if applicable:

- ☐ Environmental Impact Statement (EIS) Prepared
  - ☐ Draft EIS
  - ☐ Final EIS

Signature of Certifying Officer

April 23, 2020
Date

James McAllister
Print Name

Certifying Environmental Officer
Title

Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]**:**

Nassau County is requesting CDBG-DR funding to implement storm water drainage improvements within the Village of Cedarhurst, Nassau County, New York. The existing drainage system in the area suffers from several deficiencies which reduce capacity, leading to coastal flooding from tidal surge and rain events. To prevent flooding and improve resiliency, Nassau County is proposing construction of a new stormwater pump station - Cedarhurst Stormwater Pump Station - with associated electric, water, pumps, motor control center, storm drainage pipe, juncture chamber, storm drainage manholes, heating and ventilation and standby power (generator). The Proposed Project will also include the installation of two stormwater quality improvement devices, a check valve and a fence around the subject property. The Village of Cedarhurst-owned subject parcel, situated east of Hanlon Drive on the north side of Peninsula Boulevard, is a portion of a larger Village owned property, indicated on the Land and Tax Map of Nassau County as Section 39, Block A, Lot 530, which contains the Village's Highway Department yard with associated structures and vehicle storage. The new Cedarhurst pump station would be constructed on a 0.04-acre portion of the overall 9.20-acre Village-owned property; which currently consists of a vacant lot with grass coverage, a few trees, a drain with a cast iron cover and concrete pad with pit and access hatch – part of the existing Nassau County drainage system, and an electric utility pole which will be relocated. The electric service for the proposed stormwater plant will be placed underground. (see **Figure 1 and Figure 2** for Site Location Maps).

Based on the preferred design, schedule and funding, the Cedarhurst Stormwater Pump Station would consist of a maximum of three pumps providing a minimum of 50 cubic feet per second (CFS) pumping capacity (+/-374 gallons per second) and associated mechanical equipment which would be housed within a newly constructed pump station building. Following construction, the proposed pump station will be turned over to the Village of Cedarhurst for operation and maintenance. The pump station will be connected to two existing 24-inch diameter storm drains and one existing 42-inch diameter storm drain and would be designed to provide flood mitigation during severe weather events. The existing flap gate would be removed at the current channel discharge point and the existing pipe penetration would be sealed. A new diesel fueled 200 kW emergency generator will be provided to operate the pump station upon loss of power. Fuel for the generator would be stored in a 1,200-gallon, double walled, above ground storage tank within the pump station building. The generator and fuel tank will be elevated to base flood elevation plus 2 feet (BFE +2) to protect and ensure operation during future stormwater flood events.

Statement of Purpose and Need for the Proposal [40 CFR 1508.9(b)]:
The storm surge created by Hurricane Sandy caused significant stormwater back-up in the Village of Cedarhurst and the Five Towns Community. This storm surge carried from six to 11 feet of water and in the Village of Cedarhurst, approximately 300 homes were flooded. The purpose of the Proposed Project is to control stormwater flow during and improve resiliency after extreme weather events by creating new infrastructure to remove flood water from affected roadways and out of the community. Currently, roadway flooding impedes or blocks vehicular and pedestrian travel. This is particularly troublesome on Peninsula Boulevard, as Peninsula Boulevard is a main artery and major emergency evacuation route for the Five Towns Community. The Proposed Project was identified by the community during the CDBG-DR Community Reconstruction planning process and then derived from the CDBG-DR funded *Five Towns Drainage Study, November 30, 2017* which was prepared for Nassau County by AECOM and Cameron Engineering. The study recommended a minimum of 50 cubic feet per second (CFS) pump to effectively remove water from the affected areas. The Proposed Project is needed to reduce the risk of chronic flooding associated with extreme high tides and storm events which effect local residential, municipal, institutional, and commercial areas and impede vehicle ingress and egress throughout the community. The pump station will improve resiliency for these areas in the face of sea level rise and increasing

frequency and intensity of extreme weather events. In addition, flooding periodically extends onto surrounding residential properties, causing damage and limiting access. The Proposed Project would also provide for better access for first responders and emergency vehicles during and after flooding events.

Existing Conditions and Trends [24 CFR 58.40(a)]:
The Village of Cedarhurst is part of Five Towns, an informal grouping of Villages and hamlets located on the south shore of Long Island in Nassau County which adjoin the border with Queens County in New York City to the west and the Town of Hempstead to the east. These communities are comprised of primarily residential homes with commercial, industrial, institutional development along main corridors. Cedarhurst was named after a grove of trees that once stood at the post office. The population in Cedarhurst was 6,730 according to the 2017 United States Census estimates with a population increase of +2.2% since 2010. Cedarhurst was severely impacted by Hurricane Irene and Superstorm Sandy in 2011 and 2012 respectively.

The Village of Cedarhurst owned subject property, which is the location of the Proposed Project, is currently vacant except for an underground Nassau County owned drainage structure. The .04-acre subject parcel is previously disturbed land with grass coverage, several trees and a utility pole. This small subject site is part of a larger 9.2-acre property owned by the Village, and which currently contains its Highway Department and associated structures. The 9.2-acre site also used to contain the Cedarhurst Sewage Treatment Plant, west of the subject site across Hanlon Drive, which was decommissioned, demolished and removed from the property. The former Plant was built in 1935 and served Lawrence and Cedarhurst until the flow was diverted to the Nassau County sewage treatment system in 2011. The actual facility was demolished and removed sometime after 2014. The Village has indicated their desire to develop or utilize this parcel in the future and therefore it is unavailable to be considered as an alternative location for the proposed pump station. Further west is additional residences and Lawrence High School. To the south of the property is Peninsula Boulevard, to the west is a built-out residential community, and to the north is Mott Creek and North Woodmere Park.

Standard Conditions for All Projects
Any change to the approved scope of work will require re-evaluation by the GOSR Environmental Certifying Officer for compliance with the National Environmental Policy Act (NEPA), State Environmental Quality Review Act (SEQRA) and other laws and Executive Orders.

This review does not address all federal, state, and local requirements. Acceptance of federal funding requires the 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.

Funding Information

Estimated Total HUD Funded Amount: $3,237,000.00.

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]**:** $3,237,000.00

Compliance with 24 CFR 58.5 and 58.6 Laws and Authorities

Record below the compliance or conformance determinations for each statute, executive order, or regulation. Provide credible, traceable, and supportive source documentation for each authority. Where applicable, complete the necessary reviews or consultations and obtain or note applicable permits of approvals. Clearly note citations, dates/names/titles of contacts, and page references. Attach additional documentation as appropriate.

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 58.6		
Airport Hazards 24 CFR Part 51 Subpart D	Yes ☐ No ☒	Based on guidance provided by the Department of Housing and Urban Development (HUD) in Fact Sheet #D1, the National Plan of Integrated Airport Systems was reviewed for civilian, commercial service airports within the vicinity of the project sites. No known civil airports are located within 2,500 feet and no known military airports are located within 15,000 feet of the project site (see **Appendix A, Figure 11)**. No impacts would result. https://www.michigan.gov/documents/mshda/mshda_cd_nsp2_air_accident_315724_7.pdf
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes ☐ No ☒	The project site is not located within a coastal barrier resource area (see **Appendix A, Figure 5**). Therefore, a consistency determination is not required. http://www.fws.gov/ecologicalservices/habitatconservation/cbra/Maps/index.html
Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]	Yes ☒ No ☐	Based on the review of the FEMA Flood Insurance Rate Map (FIRM Panel 36059C0213G, effective September 11, 2009), the project site is situated within the 100-year floodplain (see **Appendix A, Figure 3)**. Since the proposed project involves construction of a new structure (pump house), flood insurance is required for the project. The Village of Cedarhurst as owner/operator of the facility will be required to have insurance which covers this structure and components. https://www.fema.gov/flood-mapping-products
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 58.5		
Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	Yes ☐ No ☒	The proposed project would be located in Nassau County, which is within a maintenance area for inhalable particulate matter (PM2.5) and carbon monoxide, a marginal non-attainment area for the eight-hour Ozone standard and considered an area source for hazardous air pollutants (HAPs) emissions.

		The Proposed Project involves the implementation of storm water drainage improvements including the installation of a new pump station. Delivery of construction materials, installation of equiptment associated with the new pump station would require the use of heavy equipment and trucks. Thus, temporary emissions from construction equipment may have the potential to impact air quality. To comply with the requirements of 40 CFR 93, Subpart B (federal general conformity regulations), a screening study for the Proposed Project was conducted. The screening study utilized the assumption that the emission intensity per expenditure (tons per dollar) for the Proposed Project would be similar to the average intensity of the construction sector in Nassau County. Projects with projected construction expenditure substantially lower than the average construction *de minimis* expenditure would clearly not exceed *de minimis* emissions levels for general conformity purposes. Utilizing construction expenditure data published by the U.S. Census along with construction emission data for Nassau County published by the NYSDEC, the construction expenditure threshold for Nassau County is $410 million. This number must be exceeded before any project may be expected to exceed the *de minimis* thresholds requiring further analysis or conformity determination. The estimated construction cost of the project is approximately $3,237,000.00 which is far below the $410 million threshold; therefore, the Proposed Project would not require further analysis for conformity determination. An emergency generator will be provided to ensure continuity of operations. Emergency generators are not designed to operate continuously. However, they have the potential to be sources of air pollutants and are thus subject to specific standards. The new emergency generator installation will meet the maximum achievable control technology (MACT) standards for reciprocating internal combustion engines (RICE), often referred to as the MACT RICE standards. MACT RICE requires that new generators can comply with the MACT by complying with the requirements in the New Source Performance Standards. The new spark ignition generator will comply with 40 CFR 60, Subpart JJJJ. The construction specifications will require the generator manufacturer to certify that the equipment complies with the EPA's New Source Performance Standards (NSPS).

		Following construction, the Proposed Project would not generate any increase in traffic. Therefore, no significant impacts on air quality due to vehicular traffic would occur. Operation of the Proposed Project would not result in any major new stationary source of air pollutants. The project would not adversely affect the State Implementation Plan (SIP). No significant impacts on air quality would occur. http://www.epa.gov/airquality/greenbook/addendum.html http://www.epa.gov/region1/rice
Coastal Zone Management Coastal Zone Management Act, sections 307(c) & (d)	Yes ☒ No ☐	The project site is located within the boundaries of the New York State Coastal Zone (See **Appendix A**, **Figure 4**). The Village of Cedarhurst does not have a Local Waterfront Revitalization Program (LWRP). A New York State Coastal Consistency Assessment form and supporting documentation was submitted to the New York State Department of State (NYSDOS) on March 2, 2020. On March 11, the NYSDOS concurred with GOSR's assessment that the proposed project was consistent with the State Coastal Zone management policies (see **Appendix B**). No further review is required. http://www.dos.ny.gov/opd/atlas/ http://www.nyc.gov/html/dcp/html/wrp/wrpcoastalmaps.shtml
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	Yes ☐ No ☒	A search for facilities listed on the New York State Environmental Remediation Database was conducted for the project site as well as a 3,000-foot radius surrounding the site. Records reviewed include those listed under the NYSDEC's Superfund Program, Brownfield Cleanup, Environmental Restoration, and Voluntary Cleanup Programs (VCP) including active solid waste facilities. NYSDEC's Bulk Storage and SPILL database records were also searched. In addition, the NEPAssist on-line tool was utilized to search for facilities listed under the Hazardous Waste, Toxic Release Inventory Database (TRI), Radiation Information Database (RADInfo), Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS), Brownfields and Toxic Substances Control Act. NYSDEC's State Superfund Site #130198 (Quick and Clean Cleaners), is located approximately 2,000 feet southwest of the project site. The site is currently operated as an urgent care medical facility; however, the site was historically used as a dry-cleaning facility. Prior use of dry-cleaning fluids (tetrachloroethene - PCE) has led to site contamination. Contaminated soil was excavated

		under the direction of the Nassau County Department of Health in 1992. Soil, groundwater and soil vapor have been impacted. A Site Characterization report, dated 2010, resulted in the site being classified as a Class 2 site in 2011. Subsequent testing results showed that actions to address exposures for the on-site building may be needed in the future. A sub-slab depressurization system (SSDS) was installed in the on-site building in September 2015 as an Interim Remedial Measure (IRM). Subsequent quarterly testing of the SSDS has shown the system to be achieving depressurization beneath the entire slab of the on-site building. Regarding potential impacts to the Proposed Project site, people are not drinking contaminated groundwater because the area is served by a public water supply. Direct contact with contaminants in the soil is unlikely because the majority of the site is covered with buildings and pavement. Volatile organic compounds in the groundwater and/or soil may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affects the indoor air quality, however, measures are in place to control the potential inhalation of site contamination due to soil vapor intrusion. Sampling indicates soil vapor intrusion is not a current concern for off-site buildings and residences. NYSDEC's SPILLS database indicates there are several SPILL records within 500 feet of the Project site. According to the SPILLS database, all of the incidents have been closed and there is no indication that any of these spill incidents would have adversely impacted the Project site. There are no bulk storage facilities mapped within 500 feet of the project area. According to the NEPAssist, there are two federal sites mapped within 3,000 feet of the Project site. The Shell Long Island Terminal, listed on EPA's Toxic Release Inventory (FRS ID: 110007148782), is situated approximately 3,000 feet northwest of the project area. According to Environmental Compliance History Online (ECHO) Reports, no violations are associated with this facility. The other federal site is identified as the former Cedarhurst Water Pollution Control Plant (CWPCP) property. It is west of the Proposed Project site, across Hanlon Road, and is listed by U.S. EPA as a Water Discharger site (FRS ID: 110039944317). Records indicate that the facility once held a major NPDES Individual Permit for sewer discharge. The CWPCP treated residential sewage and discharged

		to Motts Creek/Hooks Creek-Head of Bay. The permit was terminated in 2015 and the last compliance inspection occurred in 2017. Violations were identified as being issued during compliance actions prior to the CWPCP being rendered out of service, demolished and physically removed from the property. Sewerage from the community is now pumped and treated at Bay Park STP which is owned and operated by Nassau County. The Proposed Project is located in Radon Zone 3 which is predicted to have average indoor radon screening levels less than 2 pCi/L, (or low concentration potential) for radon. Since the he Proposed Project does not involve construction of indoor facilities, radon mitigation measures are not necessary. The Proposed Project would not result in the exposure of people or sensitive environmental resources to facilities identified in the environmental databases. No further analysis is required. http://www.dec.ny.gov/imsmaps/facilities/viewer.htm) http://www.dec.ny.gov/chemical/8437.html http://nepassisttool.epa.gov/nepassist/entry.aspx
Endangered Species Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	Yes ☐ No ☒	Review of the USFWS IPaC database system (accessed February 12, 2020) indicates three avian species with the potential to occur near the project vicinity: piping plover *(Charadrius melodus),* red knot *(Calidris canutus rufa),* and roseate tern *(Sterna dougallii dougallii).* In addition, the FWS indicates the potential presence of two plant species: seabeach amaranth *(Amaranthus pumilus* and sandplain gerardia *(Agalinis acuta).* One mammalian species: Northern long eared bat (*Myotis septentrionalis*) may also occur in the project vicinity. There are no critical habitats for these or any other species within the project area. GOSR submitted notice of the Proposed Project and documentation of Section 7 compliance to the USFWS on April 3, 2020. On April 6, 2020, the USFWS provided an acknowledgement of the No Effect determination. A request for species records within the project area was sent to the New York State Natural Heritage Program (NYSNHP) on March 2, 2020. A response was received on March 10, 2020 indicating that the NYSNHP has no records of rare or state-listed animals or plants or significant natural communities at the project site. The USFWS Official Species List and agency correspondence relative to rare, threatened and

		endangered species and natural are included as **Appendix C**. No further analysis is required. https://ecos.fws.gov/ipac/ http://www.dec.ny.gov/eafmapper/
Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	Yes ☐ No ☒	This criterion is applicable to HUD-assisted projects that involve new residential construction, conversion of nonresidential buildings to residential use, rehabilitation of residential properties that increase the number of units, or restoration of abandoned properties to habitable condition. The Proposed Project involves the construction of a new stormwater pump station on vacant land owned by the Village of Cedarhurst. Proposed activities will not result in an increased number of people being exposed to hazardous operations by increasing residential densities, converting the type of use of a building to habitation, or making a vacant building habitable, therefore, the provisions of 24 CFR Part 51 Subpart C do not apply. No hazardous operations, including handling conventional fuels or chemicals of an explosive or flammable nature were identified in the vicinity of the project site. No impacts would result.
Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes ☐ No ☒	The Proposed Project is not located within an Agricultural District. The U.S. Department of Agriculture has mapped site soils as Urban Land, Sudbury Complex and Udipsamments, wet substratum, which are not classified as Prime Farmland. The Proposed Project would not cause disturbance to Prime, Unique, or Statewide Important Farmland and would not involve the conversion of farmland to non-agricultural use. Therefore, the proposed project would not violate the Farmland Protection Policy Act. No further analysis is required. http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm http://www.agriculture.ny.gov/ap/agservices/agricultural-districts.html
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes ☒ No ☐	The FEMA Flood Insurance Rate Map (FIRM Panel 36059C0213G) indicates the project site is situated within the 100-year floodplain and NYSDEC Tidal Wetland Adjacent Area (see **Appendix A, Figures 3 and 8)**. The Proposed Activity would result in less than 0.1 acre of temporary impacts and less than 0.04 acres of permanent impacts to the 100-Year Floodplain. Although the project area lies within NYSDEC mapped Adjacent Area, the Proposed Activity would not result in any temporary or

		permanent impacts to federal or state wetlands, since none occur on site. The 8-step floodplain and wetland management decision making process was followed pursuant to 24 CFR 55. This process found that the Proposed Project would not have an impact on floodplain and/or wetland values. A 15-day "Early Notice and Public Explanation of a Proposed Activity in a 100-Year Floodplain and Wetland" was published in The Nassau Herald on November 7, 2019. The 15-day comment period expired on November 22, 2019. The 8-Step Floodplain and Wetland Management Plan, Early Floodplain and Wetland Notice and Affidavit of mailing are attached (see **Appendix D**). In accordance with 24 CFR 55. 19, a 15-day Final Notice, formally known as "Combined Notice of Intent to Request Release of Funds, FONSI and Final Notice and Public Explanation of a Proposed Activity In A Floodplain and Wetland" will also be published in the Nassau Herald on April 30, 2020. No further analysis is required. https://msc.fema.gov/portal
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800; Tribal notification for new ground disturbance.	Yes ☐ No ☒	Consultation with the New York State Historic Preservation Office (SHPO) and the Division for Historic Preservation (DHP) in the Office of Parks, Recreation and Historic Preservation (OPRHP) in accordance with Section 106 of the National Historic Preservation Act of 1966 was initiated through the Cultural Resource Information System. In a letter dated October 11, 2019, the SHPO indicated that there will be No Historic Properties Affected by the Project (see **Appendix E**, SHPO Correspondence.) No further analysis is required. https://cris.parks.ny.gov http://www.dec.ny.gov/eafmapper/
Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	Yes ☐ No ☒	The policies of 24 CFR 51.101(a)(3) do not apply to any action or emergency assistance under disaster assistance provisions or appropriations which are provided to save lives and protect public health and safety. The Proposed Project involves construction of a new stormwater pump station which would not result in new development that would generate increased noise on the project site, nor would it introduce any new or rehabilitate any existing noise sensitive uses. The Proposed Project would cause temporary increases in noise levels during construction that will be mitigated by complying with local noise ordinances using construction best practices. Therefore, no significant noise impacts would occur.

		http://www.nyc.gov/html/dep/html/noise/index.shtml
Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	Yes ☒ No ☐	The project site is located over the Nassau-Suffolk County Sole Source Aquifer (SSA) (see **Appendix A, Figure 7**). Projects in the SSA area are subject to review by the U.S. Environmental Protection Agency (U.S. EPA) according to the terms of the HUD/EPA MOU only if there are drinking water wells within a one-half mile of the project site. Since there are no such wells, consultation with EPA is not required. The diesel fuel tank supplying the proposed emergency generator has the potential to pose an environmental threat from the risk of leaks, spills, and other accidental discharges of petroleum products. As such, the fuel tank for the new emergency generator will employ multiple leak protection systems, such as a double-walled tank, containment enclosure, and/or leak-tested valves in accordance with Nassau County Department of Health Standards. The emergency generator and fuel tank will be anchored and installed in accordance with the Flood Elevation Design Considerations. Installing the equipment above the BFE is considered one of the best practices and will be an effective measure of eliminating risk to critical equipment. No additional review is required. https://www.epa.gov/dwssa/map-sole-source-aquifer-locations http://www.epa.gov/region02/water/aquifer/
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes ☒ No ☐	The project area is mapped as a New York State Department of Environmental Conservation (NYSDEC) Tidal Wetlands Adjacent Area (see **Appendix A, Figure 8**). Although the project area lies within NYSDEC mapped Adjacent Area, the Proposed Activity would not result in any temporary or permanent impacts to federal or state wetlands, since none occur on site**.** A NYSDEC Adjacent Area – Tidal Wetland Permit will be obtained prior to construction at this project site. The eight-step floodplain and wetland management decision making process was followed pursuant to 24 CFR 55 and found that the Proposed Project would not have an impact on floodplain or wetland values. A 15-day "Early Notice and Public Explanation of a Proposed Activity in a 100-Year Floodplain and Wetland" was published in The Nassau Herald on November 7, 2019. The 15-day comment period expired on November 22, 2019. The 8-Step Floodplain and Wetland Management Plan, Early Floodplain and Wetland Notice and Affidavit of mailing are attached (see **Appendix E**).

		In accordance with 24 CFR 55. 19, a 15-day Final Notice, formally known as "Combined Notice of Intent to Request Release of Funds, FONSI and Final Notice and Public Explanation of a Proposed Activity in A Floodplain and Wetland" will also be published in the Nassau Herald on April 30, 2020. No further analysis is required. https://www.fws.gov/wetlands/Data/Mapper.html http://www.dec.ny.gov/eafmapper/
Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes ☐ No ☒	The proposed activity does not occur in proximity of a listed Wild and Scenic River (**see Appendix A, Figure 9)**. No further analysis is required. http://www.rivers.gov/maps/conus.php
ENVIRONMENTAL JUSTICE		
Environmental Justice Executive Order 12898	Yes ☐ No ☒	The project site is not located in or adjacent to potential environmental justice areas identified by the New York State Department of Environmental Conservation **(see Appendix A, Figure 10**). The Proposed Project would not raise environmental justice issues and has no potential for new or continued disproportionately high and adverse human health and environmental effects on minority or low-income populations. No additional review is required. http://www.dec.ny.gov/docs/permits_ej_operations_pdf/ulsterej.pdf

Environmental Assessment Factors [24 CFR 58.40; Ref. 40 CFR 1508.8 &1508.27] Recorded below is the qualitative and quantitative significance of the effects of the proposal on the character, features and resources of the project area. Each factor has been evaluated and documented, as appropriate and in proportion to its relevance to the proposed action. Verifiable source documentation has been provided and described in support of each determination, as appropriate. Credible, traceable and supportive source documentation for each authority has been provided. Where applicable, the necessary reviews or consultations have been completed and applicable permits or approvals have been obtained or noted. Citations, dates/names/titles of contacts, and page references are clear. Additional documentation is attached, as appropriate. **All conditions, attenuation or mitigation measures have been clearly identified.**

Impact Codes: Use an impact code from the following list to make the determination of impact for each factor.

(1) Minor beneficial impact
(2) No impact anticipated
(3) Minor Adverse Impact – May require mitigation
(4) Significant or potentially significant impact requiring avoidance or modification which may require an Environmental Impact Statement

Environmental Assessment Factor	Impact Code	Impact Evaluation
LAND DEVELOPMENT		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	No impact anticipated. Construction of the new pump station would be implemented on a parcel owned by the Village of Cedarhurst and mapped as Community Services. The property is occupied by the Village's Highway Department yard which already contains a portion part of the existing Nassau County drainage system. Therefore, the Proposed Project is consistent with existing land use and zoning. Further, the Proposed Project would not result in the creation of new permanent jobs and/or an increase in the number of employees and would therefore not have an urbanizing effect.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	1	The new Cedarhurst pump station would be constructed on a 0.04-acre portion of the overall 9.20-acre Village-owned property, which primarily consists of a vacant lot with grass coverage. The area is mapped by the U.S. Department of Agriculture as Urban Land, Sudbury Complex and Udipsamments, wet substratum. Based on the preferred design, the Cedarhurst Stormwater Pump Station would consist of three pumps providing greater than 50 cubic foot per second pumping capacity connected to two existing 24-inch diameter storm drains and one existing 42-inch diameter storm drain. The Proposed Project would remove storm water from affected roadways and out of the Village of Cedarhurst community during severe weather events, a beneficial impact. Appropriate soil erosion and sediment control best practices will be implemented during construction activities. In particular, soil erosion and sediment control measures would be in place for any construction activities in or near water.
Hazards and Nuisances including Site Safety and Noise	2	The Project site is situated within the SFHA. No other known natural hazards, including earthquake fault zones, landslide zones, or hazardous terrain, are at or near the Project site. There were no underground storage tanks identified near the project area and use or storage of toxic chemicals or radioactive materials is not required to implement the project. The Project will generate noise during construction that will be minimized through compliance with local noise ordinances, including time-of-day work limitations. Construction activities will take place during normal working hours and will employ commonly accepted

		engineering and administrative controls that will minimize noise impacts.
Energy Consumption	2	The Proposed Project involves the installation of a new pump station which would result in a slight increase in energy consumption. However, proposed pump station will be equipped with variable speed drives to increase system energy efficiency. Construction of the proposed project would consume energy, including the use of fossil fuels, for construction equipment and the shipment of materials required for construction activities. However, the proposed project would not result in substantial increase of long-term energy consumption.

Environmental Assessment Factor	Impact Code	Impact Evaluation
SOCIOECONOMIC		
Employment and Income Patterns	2	No impact anticipated. The Proposed Project would create temporary jobs during construction. However, these jobs would not significantly increase employment opportunities or impact income patterns as construction duration is expected to be eight months. Operation of the proposed project would not result in any changes to existing employment opportunities or impact income patterns.
Demographic Character Changes, Displacement	2	No impact anticipated. The Proposed Project would not result in the creation of new, permanent jobs and therefore would not alter the demographic characteristics of the surrounding community. The Proposed Project would not directly or indirectly displace people, businesses, institutions, or community facilities. The new pumping station will be constructed on Village of Cedarhurst owned property which is currently occupied by other utilities. Operation and maintenance of the new pump station will be turned over to the Village following construction.

Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILITIES AND SERVICES		
Educational and Cultural Facilities	2	No impacts anticipated. Because the Project involves no changes in population and/or employment, there will be no impact on demand for educational or cultural facilities.

Commercial Facilities	2	No impacts anticipated. Because the Project involves no changes in population and/or employment, there will be no impact on demand for commercial facilities.
Health Care and Social Services	2	No impacts anticipated. The Proposed Project would not result in the creation of new jobs and therefore would not increase demand on health care and social services nor have any adverse effects on existing facilities.
Solid Waste Disposal / Recycling	2	No impacts anticipated. Construction debris would be collected on-site and disposed of or recycled as appropriate. There will be no long-term increase in solid waste disposal or recycling from the proposed project.
Waste Water / Sanitary Sewers	2	No impacts anticipated. The Proposed Project does not involve any alterations to wastewater or sanitary sewer systems.
Water Supply	2	No impacts anticipated. The Proposed Project does not involve any alterations to the water supply system.
Public Safety - Police, Fire and Emergency Medical	1	Because the Project involves no changes in population, there will be no adverse impact relative to demand for police, fire, or emergency medical services. A significant benefit from the Proposed Project would result from the decreased chance of flooding.
Parks, Open Space and Recreation	2	Because the Project involves no changes in population, there will be no impact on demand for parks, open space, or other recreational facilities. Construction staging areas and access routes will occur on Village of Cedarhurst owned property and will be reseeded or repaved as appropriate following construction.
Transportation and Accessibility	1	Currently, roadway flooding during storms impedes or blocks vehicular and pedestrian travel within the Village of Cedarhurst, specifically on Peninsula Boulevard, a main artery and major evacuation route. Construction of a new pump station would prevent Peninsula Boulevard from flooding, a beneficial impact. The proposed project would not generate any additional demand for transportation or accessibility services nor have any adverse effects on existing facilities.

Environmental Assessment Factor	Impact Code	Impact Evaluation
NATURAL FEATURES		
Unique Natural Features, Water Resources	2	The proposed project site is situated on vacant land owned by the Village of Cedarhurst. Installation of the new pump station will not result in substantial alternation to any unique features. Although, the project is located within the

		Nassau- Suffolk Sole Source Aquifer system, it is not anticipated to impact the Aquifer nor the drinking water supply. The Proposed Project will not adversely affect water quality.
Vegetation, Wildlife	2	Temporary impacts to vegetation and wildlife associated with construction activities would be minor and short-term. Wildlife expected to occur within the vicinity of the project area include mobile species that can easily avoid the project area during construction. Wildlife which may be temporarily displaced would be expected to return upon completion of construction. Best Management Practices would be utilized to avoid or minimize potential impacts to aquatic species. The proposed project will result in the permanent removal of one or two trees as well as turf that is maintained by mowing. Consultations with the USFWS, NYSDEC, and NYNHP were conducted and no further analysis relative to vegetation and wildlife impacts is required.
Other Factors	2	No additional factors will be impacted by the project, and no additional impacts will occur.

List of Sources, Agencies and Persons Consulted [40 CFR 1508.9(b)]**:**
EPA NEPAssist http://nepassisttool.epa.gov/nepassist/entry.aspx
EPA Region 2 Sole Source Aquifers http://www.epa.gov/region02/water/aquifer/
EPA, Greenbook – Federal Register Notices http://www.epa.gov/oaqps001/greenbk/adden.html
EPA, Radon Zones https://www.epa.gov/radon/find-information-about-local-radon-zones
FEMA Mapping Service Center https://msc.fema.gov/portal
Military and Civilian Airports
https://www.michigan.gov/documents/mshda/mshda_cd_nsp2_air_accident_315724_7.pdf
H2M Architects and Engineers. 60% Design Plans for Cedarhurst Pump Station, January 2020
Nassau County Department of Public Works, Draft Technical Design Report, November 2019
National Wild and Scenic Rivers System http://www.rivers.gov/maps/conus.php
New York City Noise Code http://www.nyc.gov/html/dep/html/noise/index.shtml
NYS DEC Environmental Justice Areas
http://www.dec.ny.gov/docs/permits_ej_operations_pdf/kingsejdetail.pdf
NYS DEC Environmental Site Database Search http://www.dec.ny.gov/chemical/8437.html
NYS DOS Coastal Zone http://www.dos.ny.gov/opd/atlas/
NYSDEC EAF Mapper http://www.dec.ny.gov/eafmapper/
NYSDEC Environmental Resource Mapper http://www.dec.ny.gov/animals/38801.html
U.S. EPA Status of SIP Requirements for Designated Areas
http://www.epa.gov/air/urbanair/sipstatus/reports/ny_areabypoll.html
U.S. Fish & Wildlife Service Coastal Barrier Resource System http://www.fws.gov/ecologicalservices/habitat-conservation/cbra/Maps/index.html
U.S. Fish & Wildlife Service NWI Wetlands http://www.fws.gov/wetlands/
USDA NRCS Web Soil Survey http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm
Map sources are listed on Figures.

List of Appendices

Appendix A Figures
Appendix B Coastal Zone Management Act Coordination
Appendix C USFWS and NYNHP Correspondence
Appendix D Floodplain Management
Appendix E SHPO Correspondence

List of Permits Obtained or Required/Involved Agencies:

NYSDEC Article 25 – Tidal Wetlands Adjacent Area Permit
Section 106 Consultation, National Historic Preservation Act of 1966
Section 14.09, New York State Historic Preservation Act
Section 7 ESA Project Review
Coastal Consistency Review, Consistency Review Unit, New York State Department of State
State Environmental Quality Review Act (New York Environmental Conservation Law Article 8)
GOSR, Lead Agency

List of Other Approvals Obtained or Required:

State Environmental Quality Review Act (SEQRA) Unlisted evaluation.

Field Inspection (Date and completed by)**:**

James McAlister, December 24, 2019

Public Outreach [24 CFR 50.23 & 58.43]**:**

Early Notice and Public Explanation of a Proposed Activity in a 100-Year Floodplain published in the Nassau Herald November 7, 2020.

On April 30, 2020, a combined Notice of Finding of No Significant Impact, Intent to Request Release of Funds and Final Notice of Activity within Floodplains and Wetlands will be published in the Nassau Herald. Any individual, group, or agency may submit written comments on the Environmental Review Record to:

James McAllister, Certifying Officer
Bureau of Environmental Review and Assessment
Governor's Office of Storm Recovery
500 Bi-County Boulevard, Suite 300, Farmingdale, NY 11735
(631) 465-9677,NYSCDBG_DR_ER@nyshcr.org

Cumulative Impact Analysis [24 CFR 58.32]**:**

The Project is not expected to trigger cumulative impacts, including the degradation of important natural resources, socioeconomic resources, human health, recreation, quality of life issues, and cultural and historic resources. The Project is not of a scale large enough to contribute significantly to cumulative impacts, however, it will create positive impacts, as the Proposed Project will protect the citizens of the Village of Cedarhurst from future flooding.

Alternatives [24 CFR 58.40(e); 40 CFR 1508.9]

Proposed Project: As fully described in this Environmental Assessment, the project involves the construction of a new pump station within the Village of Cedarhurst, within an area which frequently floods.

Alternative Siting: The 9.2-acre project site, west and across Hanlon Drive, historically contained the Cedarhurst Sewage Treatment Plant (STP). The WTP was built in 1935 and served the Villages of Lawrence and Cedarhurst until the flow was diverted to the Nassau County sewage treatment system sometime around 2015. After that time, the STP was decommissioned and demolished; and the facility was removed from the property sometime after 2017. The Village has indicated their desire to develop or utilize this parcel in the future and therefore it is unavailable to be considered as an alternative location for the proposed pump station. Further west is additional residences and Lawrence High School. To the south of the property is Peninsula Boulevard, to the west is a built-out residential community, and to the north is Mott Creek and North Woodmere Park. Therefore, there are no viable alternative sites for the Proposed Project.

No Action Alternative: [24 CFR 58.40(e)]:
Not undertaking the Project would not be consistent with the goals and objectives of the Nassau County's NYRCR Plan. Further, the Village of Cedarhurst would continue to flood during storm events, negatively impacting and potentially endangering the lives of local residents and emergency responders.

Standard Conditions for All Projects
Any change to the approved scope of work will require re-evaluation by the Certifying Officer for compliance with NEPA and other laws and Executive Orders.

This review does not address all federal, state and local requirements. Acceptance of federal funding requires the 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.

Summary of Findings and Conclusions:

The Proposed Project would involve construction of above-ground pumping station facilities which would result in approximately 1,742 square feet of ground disturbance. The project activity would be conducted on a previously disturbed area owned by the Village of Cedarhurst, which is designated as Community Facility use. The Proposed Project would also include the installation of an emergency generator and an above ground diesel storage tank, but neither are anticipated to cause impacts to the Nassau-Suffolk Sole Source Aquifer system or to nearby wetland and areas. The Proposed Project will not result in significant impacts to the quality of the human environment or result in other significant direct, indirect, or cumulative impacts. The Project will comply with all relevant regulations listed in 24 CFR subparts 58.5 and 58.6.

Mitigation Measures and Conditions [40 CFR 1505.2(c)]

GOSR has summarized below all mitigation measures adopted by the Responsible Entity to reduce, avoid, or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures or conditions must be incorporated into project contracts, development agreements, and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

Law, Authority, or Factor	Mitigation Measure
Clean Air Act	All Project activities will comply with applicable federal, state, and local laws and regulations regarding construction emissions, including but not limited to NYCRR, NYSDEC Air Quality Management Plan, and the

	New York SIP. All necessary measures will be used to minimize fugitive dust emissions during construction activities. In addition, the following specifications will be followed: - *Idling Restriction*. In addition to adhering to the local law restricting unnecessary idling on roadways, on-site vehicle idle time will also be restricted to five minutes for all equipment and vehicles that are not using their engines to operate a loading, unloading, or processing device (e.g., concrete mixing trucks) or otherwise required for the proper operation of the engine. - *Utilization of Newer Equipment.* EPA's Tier 1 through 4 standards for nonroad engines regulates the emission of criteria pollutants from new engines, including PM, CO, NOx, and hydrocarbons (HC). All nonroad construction equipment with a power rating of 50 hp or greater would meet at least the Tier 2 emissions standard to the extent practicable. - *Best Available Tailpipe Reduction Technologies.* Non-road diesel engines with a power rating of 50 horsepower (hp) or greater and controlled truck fleets (i.e., truck fleets under long-term contract with the project) including but not limited to concrete mixing and pumping trucks would utilize the best available tailpipe (BAT) technology for reducing DPM emissions. Diesel particulate filters (DPFs) have been identified as being the tailpipe technology currently proven to have the highest reduction capability. Construction contracts would specify that all diesel nonroad engines rated at 50 hp or greater would utilize DPFs, either installed by the original equipment manufacturer (OEM) or retrofitted. Retrofitted DPFs must be verified by EPA or the California Air Resources Board (CARB). Active DPFs or other technologies proven to achieve an equivalent reduction may also be used.
Floodplain Management	The FEMA Flood Insurance Rate Map indicates the project site is situated within the 100-year floodplain and NYSDEC Tidal Wetland Adjacent Area. The 8-step floodplain and wetland management decision making process was followed pursuant to 24 CFR 55.
Clean Water Act	The project will not proceed until the appropriate permits are obtained from the USACOE and or NYSDEC.
Contamination and Toxic Substances	To ensure no adverse effects to human health and the environment, any subsurface disturbance associated with the proposed project will be conducted in accordance with a site-specific Soil Mitigation Plan (SMP). The SMP would specify procedures for identifying

	and managing any suspected or unforeseen contaminated soil and/or underground storage tanks (including procedures for stockpiling and off-site transportation and disposal), environmental regulatory agency notification and/or reporting, and appropriate health and safety procedures, including the need for dust suppression. All Project-related solid waste generated will be managed and transported in accordance with the NYS solid and hazardous waste rules.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	BMPs, such as turbidity barriers, silt fence and erosion prevention, will be used, as required by permits or agency discretion. State and local permitting requirements will incorporate BMPs to eliminate erosion impacts during construction.

Determination:

☒ **Finding of No Significant Impact** [24 CFR 58.40(g)(1); 40 CFR 1508.27]
The project will not result in a significant impact on the quality of the human environment.

☐ **Finding of Significant Impact** [24 CFR 58.40(g)(2); 40 CFR 1508.27]
The project may significantly affect the quality of the human environment.

Preparer Signature: Cristy L. Boyd Date: April 20, 2020

Name/Title/Organization: Cristy Boyd, Principal Scientist, CSA Group

Certifying Officer Signature: James M. McAllister Date: April 21. 2020

Name/Title: James McAllister, Certifying Environmental Officer

This original, signed document and related supporting material must be retained on file by the Responsible Entity in an Environmental Review Record (ERR) for the activity/project (ref: 24 CFR Part 58.38) and in accordance with recordkeeping requirements for the HUD program(s)

SITE PLANS

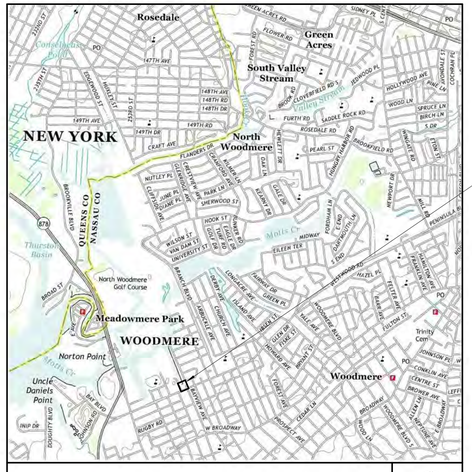
Nassau County Department of Public Works

Five Towns Drainage Improvements: Cedarhurst Stormwater Pump Station

NASSAU COUNTY, NY CONTRACT NO. CFPW 19000019

NCDP 1901

JANUARY 2020



SITE LOCATION MAP

N

SHEET LIST

RECOMMENDED FOR APPROVAL

JOSEPH CUOMO
PROJECT MANAGER — DATE

SEAN E. SALLIE, AICP
DEPUTY COMMISSIONER — DATE

APPROVED BY

KENNETH G. ARNOLD, P.E.
COMMISSIONER OF PUBLIC WORKS — DATE

H2M architects + engineers

538 Broad Hollow Road, 4th Floor East
Melville, NY 11747
631.756.8000 • www.h2m.com

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
SCH	AMZ		

PROJECT No:	DATE:	SCALE:
NCDP 1901	JANUARY 2020	AS SHOWN

CLIENT

Nassau County Department of Public Works

Five Towns Drainage Improvements: Cedarhurst Stormwater Pump Station

STATUS

60% SUBMISSION

DRAWING No.

G0.0

SHEET No. 1 OF 22

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1/31/2020 3:14:43 PM

GRAPHIC SCALE

50 0 25 50

(IN FEET)
1 inch = 50 ft.

LEGEND

DESCRIPTION	SYMBOL
DRAINAGE MANHOLE	D
CURB INLET	
CATCH BASIN	
INLET	
INLET	
WATER MANHOLE	W
SANITARY MANHOLE	S
SANITARY/DRAINAGE FLOW ARROW	
UTILITY POLE/GUY POLE	
STORM DRAIN	D D
WATER MAIN	W W
SANITARY SEWER	S
UNDERGROUND GAS	G
OVERHEAD WIRES	OH OH

EXISTING CONDITIONS NOTES:

1. 24-INCH RCP CAPPED DURING THE INSTALLATION OF FLOW CONTROL CHAMBER CIRCA 1998.
2. FLOW CONTROL CHAMBER INCLUDES 42-INCH FLANGED TIDEFLEX CHECK VALVE ON 42" RCP.
3. LOCATION OF UNDERGROUND UTILITIES AND STRUCTURES BOTH PUBLIC AND CUSTOMER OWNED WERE OBTAINED FROM EITHER OLD MAPS OR DRAWINGS/RECORDS SUPPLIED BY OTHERS. THE OWNER AND ENGINEER DO NOT GUARANTEE OR ACCEPT RESPONSIBILITY FOR ANY DAMAGE TO SUCH FACILITIES DUE TO DISCREPANCIES IN LOCATION AND SIZE SHOWN ON THE PLANS OR THOSE UTILITIES AND STRUCTURES NOT SHOWN.

UTILITY NOTES:

SUBSURFACE UTILITY ENGINEERING (SUE) QUALITY LEVELS OF SERVICE (ACCURACY)
ALL MARKOUT IS QUALITY LEVEL D UNLESS OTHERWISE NOTED.

QL-A = QUALITY LEVEL A (TEST HOLES)
DATA TYPICALLY ACQUIRED AT ONE POINT ON AN UNDERGROUND UTILITY FEATURE EXPOSED BY AIR VACUUM EXCAVATION OR OTHER MEANS. THE HORIZONTAL AND VERTICAL LOCATION OF THIS REFERENCE POINT IS ACQUIRED AND REPORTED TO ACCEPTABLE SURVEY TOLERANCES. THE ACQUIRED DATA FULFILLS SECTION 5.4.5 ON PAGE 6 OF ASCE STANDARD 38-02.

QL-B = QUALITY LEVEL B (UTILITY DESIGNATION)
DEPICTION OF AN UNDERGROUND UTILITY LINE ESTABLISHED BY SENSING THE LOCATION WITH ELECTRONIC INSTRUMENTATION. LINEWORK AND UTILITY SURFACE FEATURES ARE ACQUIRED BY SURVEYING POINTS ALONG ALIGNMENT TO ACCEPTABLE SURVEY TOLERANCES.

QL-C = QUALITY LEVEL C (RECORDS PLOTTING)
UTILITY INFORMATION OBTAINED FROM RECORD INFORMATION AND PLOTTED TO CORRELATE WITH SURFACE UTILITY FEATURES WHICH HAVE BEEN SURVEY LOCATED AND ACCURATELY REDUCED ON TO DESIGN/CONSTRUCTION DOCUMENTS.

QL-D = QUALITY LEVEL D (RECORDS DRAFTING)
DEPICTION OF UNDERGROUND UTILITY LINES BY TRANSPOSITION FROM UTILITY RECORDS OR PLACED FROM VERBAL RECOLLECTIONS WITHOUT BENEFIT OF SURVEYED SURFACE FEATURES. ACCURACY OF INFORMATION IS QUESTIONABLE.

EOI
END OF INFORMATION PERTAINS TO THE LOSS OF SIGNAL THAT HAS BEEN APPLIED TO AN UNDERGROUND UTILITY AND THEN DETECTED TO ELECTRONICALLY LOCATE THE UTILITY. COMMONLY FOUND WHERE UTILITIES CHANGE TO NON-CONDUCTIVE MATERIALS, ARE CUT OR AT END OF UTILITY.

H2M architects + engineers
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Melville, NY 11747
631.756.8000 • www.h2m.com

CONSULTANTS:

MARK	DATE	DESCRIPTION

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
SPC	MAM	SPC	

PROJECT No.:	DATE:	SCALE:
NCDP1901	JANUARY 2020	

CLIENT

NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS

Five Towns Drainage Improvements: Cedarhurst Stormwater Pump Station (CFPW19000019)

HANLON DRIVE
CEDARHURST, NEW YORK

CONTRACT

CONTRACT G
GENERAL CONSTRUCTION

STATUS

NOT FOR CONSTRUCTION

SHEET TITLE

EXISTING SITE CONDITIONS

DRAWING No.: **C1.0**

SHEET No.: 2 OF 22

LEGEND

DESCRIPTION	SYMBOL
DRAINAGE MANHOLE	Ⓓ
STORM DRAIN	D D

GRAPHIC SCALE

50 0 25 50

(IN FEET)
1 inch = 50 ft.

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CONSULTANTS:

MARK	DATE	DESCRIPTION

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
SPC	MAM	SPC	

PROJECT No.:	DATE:	SCALE:
NCDP1901	JANUARY 2020	

CLIENT

NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS

Five Towns Drainage Improvements: Cedarhurst Stormwater Pump Station (CFPW19000019)

HANLON DRIVE
CEDARHURST, NEW YORK

CONTRACT

CONTRACT G
GENERAL CONSTRUCTION

STATUS

NOT FOR CONSTRUCTION

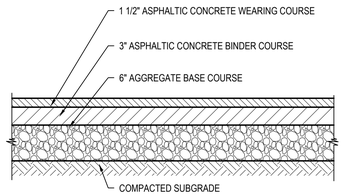
SHEET TITLE

SITE IMPROVEMENTS PLAN

DRAWING No.

C2.0

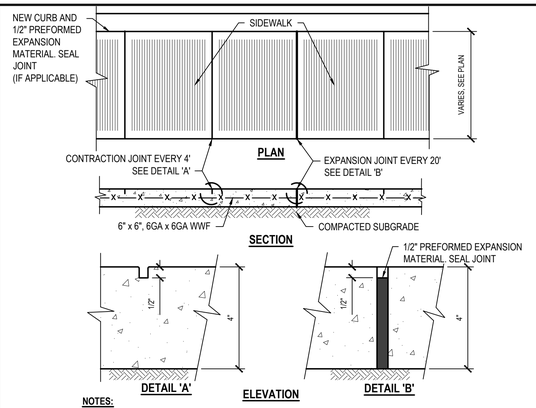
SHEET No. 3 OF 22



NOTE:
COMPACT SUBGRADE TO 92% MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557.

1 Asphalt Pavement - Heavy Duty

SCALE: NTS (321216.13 H2MX2) - U

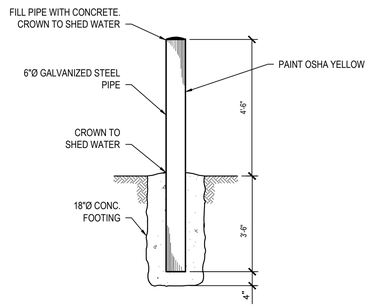


NOTES:

1. CONCRETE TO ACHIEVE 4000 PSI STRENGTH AT 28 DAYS
2. COMPACT SUBGRADE TO 92% MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557.
3. APPLY BROOM FINISH PERPENDICULAR TO DIRECTION OF TRAVEL.

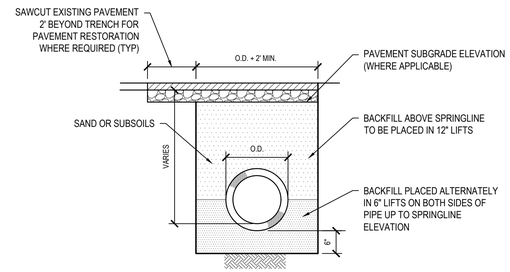
2 Concrete Sidewalk

SCALE: NTS (321313.33 H2MX1) - U



NOTE:

1. CONCRETE TO ACHIEVE 4000 PSI STRENGTH AT 28 DAYS.

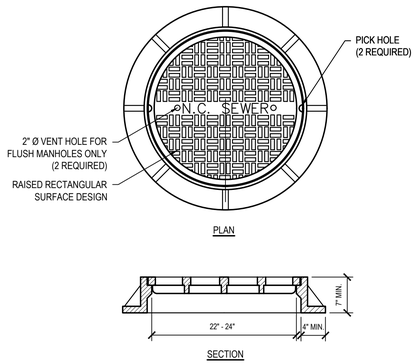


NOTES:

1. IF DEPTH OF TRENCH EXCEEDS 5', THE CONTRACTOR MUST PROVIDE SHEETING AND BRACING OR A SHEETING BOX IN ACCORDANCE WITH OSHA REGULATIONS. AS AN ALTERNATIVE, IF PERMITTED BY THE ENGINEER, THE TRENCH WALLS MAY BE CUT BACK TO A 1:1 SLOPE OR THE NATURAL ANGLE OF REPOSE FOR THE SOIL, WHICHEVER IS GREATER.
2. WITHIN 9" OF PAVEMENT SUBGRADE ELEVATION (WHERE APPLICABLE) COMPACT BACKFILL TO 92% MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557. ALL OTHER BACKFILL MATERIAL TO BE COMPACTED TO 90% MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557.

4 Pipe Trench

SCALE: NTS (312333.00 H2MX1) - U



NOTES:

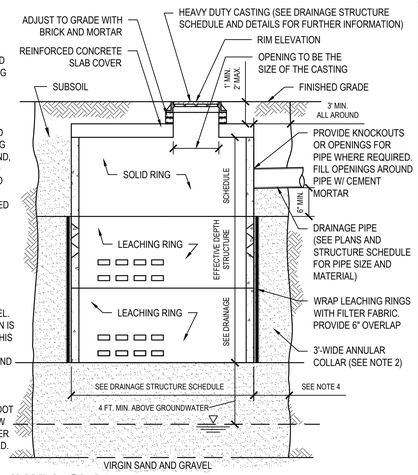
1. CASTINGS MUST BE CAST IRON AND CAPABLE OF SUPPORTING THE AASHTO HS-20 HIGHWAY LOADING.
2. COVERS TO BE INTERCHANGEABLE.
3. COVERS TO DRYWELLS LABELED DRAINAGE.

5 Circular Frame & Cover - Heavy Duty

SCALE: NTS (334913.23 H2MX4)

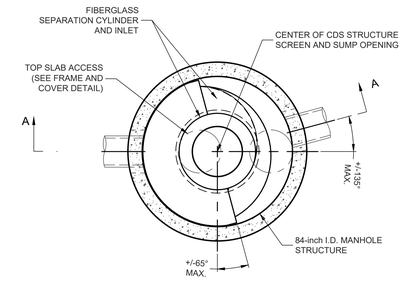
NOTES:

1. DRYWELL COMPONENTS ARE TO BE REINFORCED PRECAST CONCRETE AND CAPABLE OF SUPPORTING AASHTO HS-20 HIGHWAY LOADING.
2. COLLAR MATERIAL TO CONSIST OF CLEAN SAND AND GRAVEL CONTAINING LESS THAN 15% FINE SAND, SILT AND CLAY. SILT AND CLAY FRACTIONS NOT TO EXCEED 5%. NATIVE MATERIAL MAY BE REUSED IF IT MEETS THIS REQUIREMENT.
3. EXTEND EXCAVATION TO PROVIDE A DIRECT CONNECTION BETWEEN BOTTOM RING AND A 6' MINIMUM STRATUM OF VIRGIN SAND AND GRAVEL. WHEN OVER EXCAVATION IS REQUIRED TO SATISFY THIS CRITERIA, ALL BACKFILL SHALL BE CLEAN SAND AND GRAVEL MEETING THE COLLAR SPECIFICATION.
4. MAXIMIZE DEPTH OF 3 FOOT ANNULAR COLLAR BELOW BOTTOM RING WHEN OVER EXCAVATION IS REQUIRED.



6 Drywell With Slab

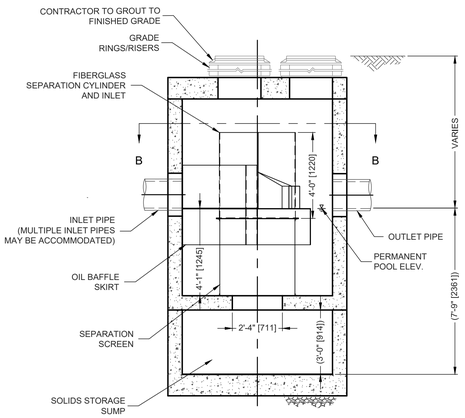
SCALE: NTS (334923.16 H2MX1)



PLAN VIEW B-B

N.T.S.

FRAME AND COVER
(DIAMETER VARIES)
N.T.S.



ELEVATION A-A

N.T.S.

CDS-7-C (CDS3535) ONLINE CDS UNIT BY CONTECH, OR APPROVED EQUIVALENT

GENERAL NOTES

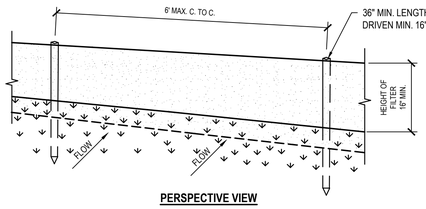
1. ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH [ ] ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE, www.ContechES.com
4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET HS20 (AASHTO M 306) AND BE CAST WITH THE CONTECH LOGO.
6. IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES

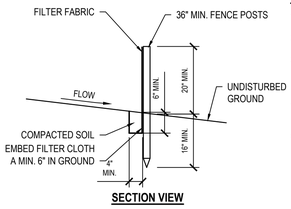
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

5 Steel Bollard, 6"Ø

SCALE: NTS (312513.23 NYDC1-U)



PERSPECTIVE VIEW



SECTION VIEW

NOTES

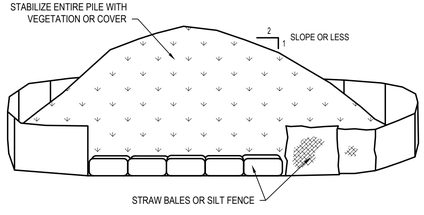
1. POSTS SHALL BE 2" X 2" HARDWOOD OR APPROVED EQUIVALENT.
2. FASTEN FILTER CLOTH SECURELY TO POSTS AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER OVERLAP SIX INCHES AND FOLD AND SECURE AT POST. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PERFORM MAINTENANCE AS NEEDED AND REMOVE ACCUMULATED SEDIMENT WHEN "BULGES" DEVELOP IN THE SILT FENCE.
5. REMOVE SILT FENCE UPON PERMANENT STABILIZATION OF UPLAND AREAS.

7 Silt Fence - Standard

SCALE: NTS 312513.13 NYDC1-U

NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2:1.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAW BALES, THEN STABILIZED WITH VEGETATION OR COVERED.



USE WHERE TOPSOIL IS NECESSARY FOR REGRADING AND VEGETATING DISTURBED AREAS. TEMPORARY STOCKPILE STABILIZATION MEASURES INCLUDE VEGETATIVE COVER, MULCH, NONVEGETATIVE COVER, AND PERIPHERAL SEDIMENT TRAPPING BARRIERS. THE STABILIZATION MEASURE(S) SELECTED SHOULD BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, AND REQUIRED PERIOD OF USE.

8 Temporary Soil Stockpile

SCALE: NTS (312513.23 NYDC1) - U

9 Stormwater Quality Unit Detail

SCALE: NTS

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CONSULTANTS:

MARK	DATE	DESCRIPTION

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:

PROJECT No.:	DATE:	SCALE:
NCDP1901	JANUARY 2020	

CLIENT

NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS

Five Towns Drainage Improvements: Cedarhurst Stormwater Pump Station (CFPW19000019)

HANLON DRIVE
CEDARHURST, NEW YORK

CONTRACT

CONTRACT G
GENERAL CONSTRUCTION

STATUS

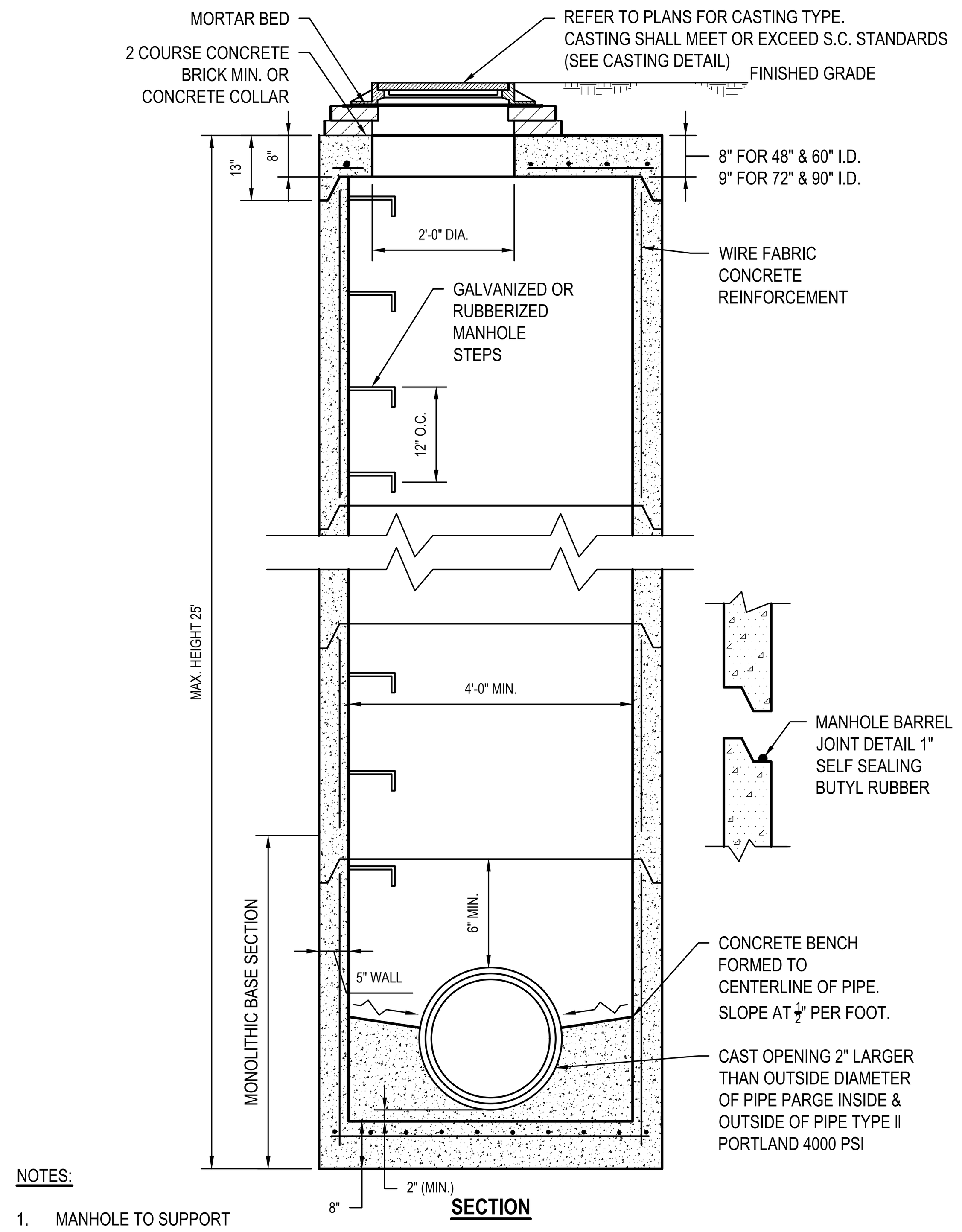
NOT FOR CONSTRUCTION

SHEET TITLE

SITE DETAILS

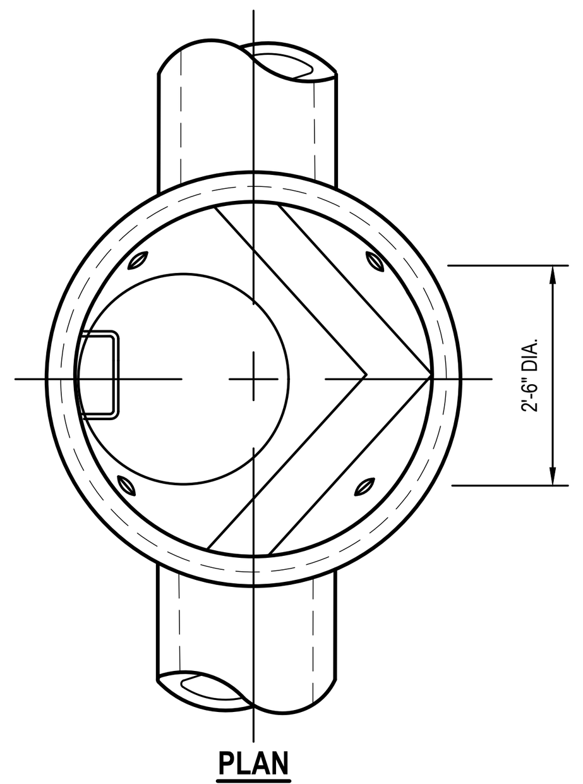
DRAWING No.: **C7.0**

SHEET No.: 4 OF 22



NOTES:

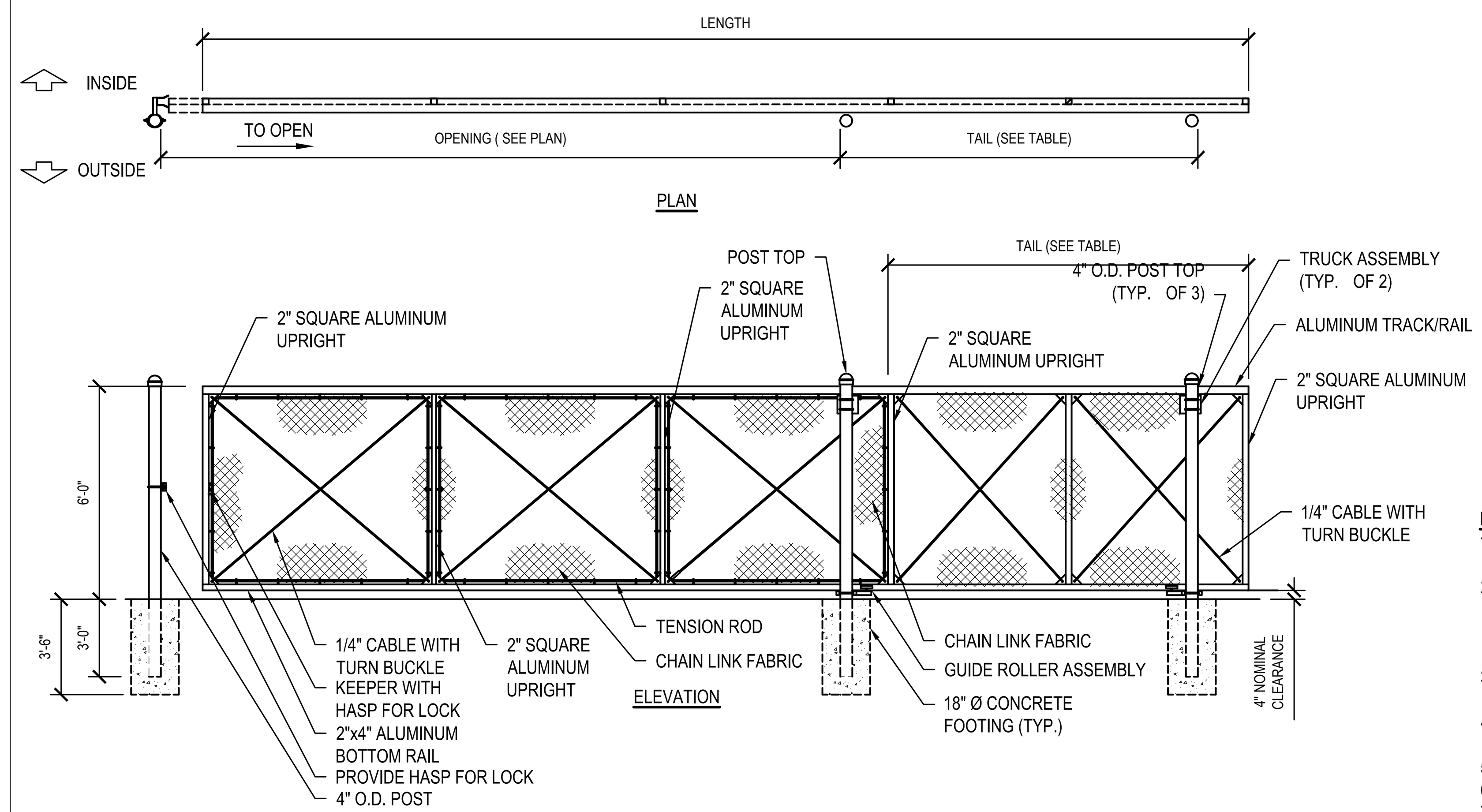
1. MANHOLE TO SUPPORT AASHTO HS-20 TRAFFIC LOADING.
2. CONCRETE 4000 PSI @28 DAYS.
3. WELDED WIRE MESH ASTM A185.
4. REBAR ASTM A615 GRADE 60.
5. JOINT SEALANT TO BE 1" BUTYL RUBBER MEETING THE REQUIREMENTS OF FEDERAL SPECIFICATION SS-S-210A AND AASHTO M-198.
6. ALL PRECAST CONCRETE STRUCTURES MUST MEET ACI CODE AND SPECIFICATIONS.
7. ALL STRUCTURES MUST BE MANUFACTURED AT AN ACI CERTIFIED PLANT, A COPY OF CERTIFICATION MUST BE ON FILE WITH THE TOWN.
8. MANHOLE CONSTRUCTION TO CONFORM TO ASTM C913.

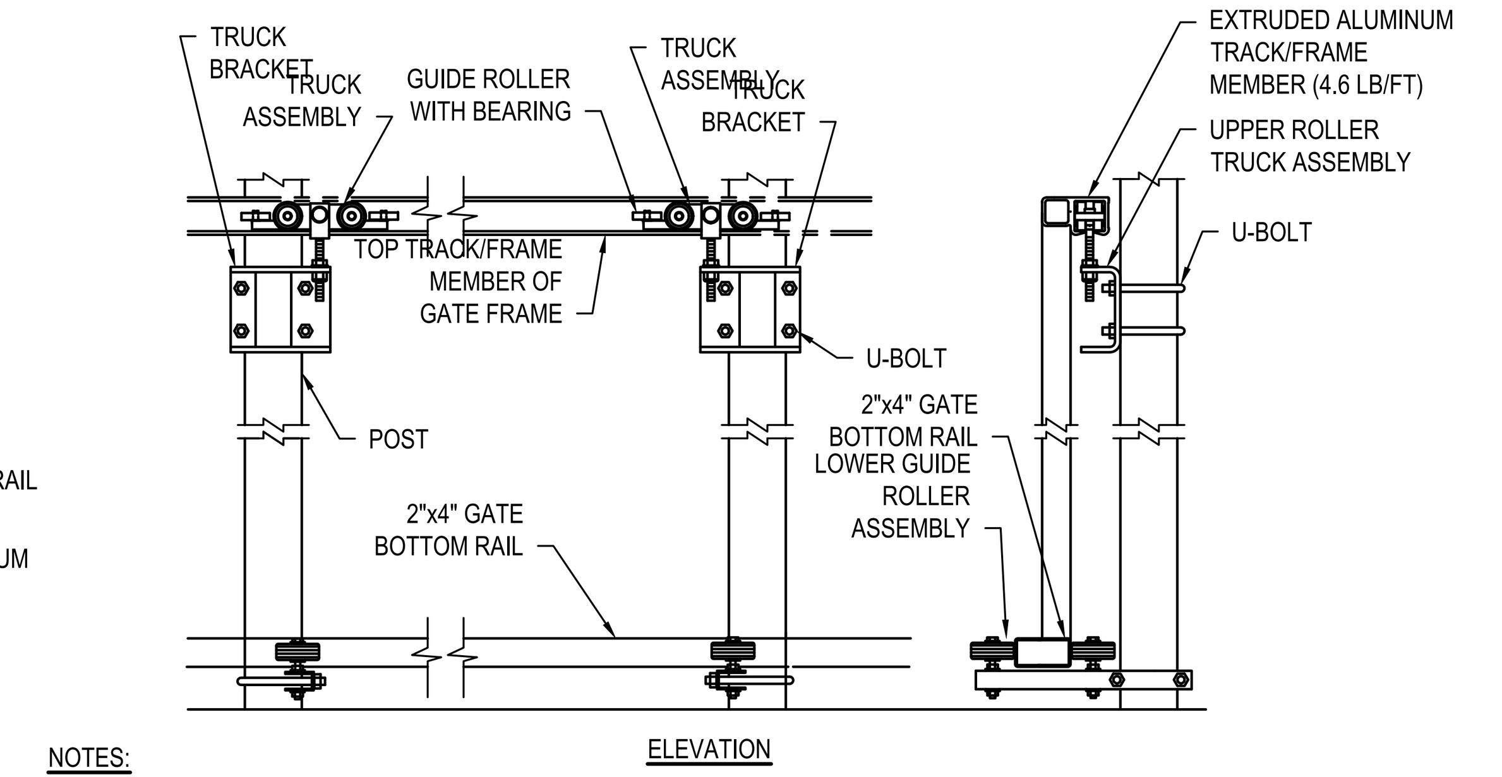


(TOWN OF BROOKHAVEN)

1 Storm Drainage Manhole

SCALE: NTS (334913.13 BRKN1-U)





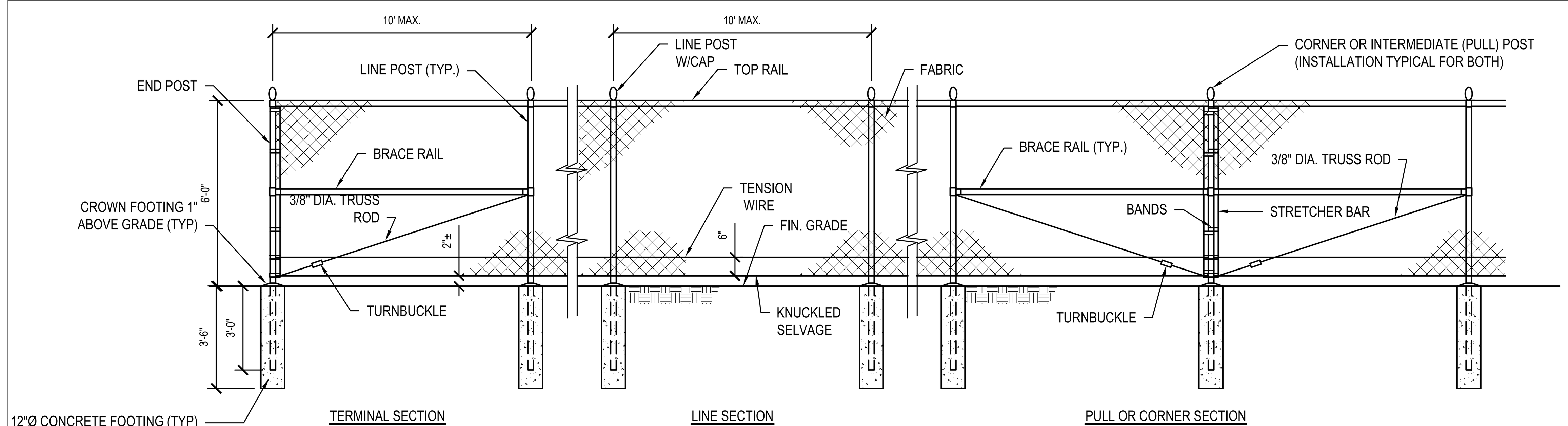
NOTES:

1. FABRIC: ASTM A392, 2" MESH, 9 GAUGE STEEL CORE CHAIN LINK FENCE FABRIC. ASTM A641 GALVANIZED STEEL CORE WIRE, ZINC COATED TO 0.302/SF WITH 7-12 MIL PVC COATING IN ACCORDANCE WITH ASTM F668 CLASS 2B.
2. FRAME: ASTM F1184, TYPE II CLASS 2, ASTM B221 ALUMINUM ALLOY 6061 T6, WELDED CONSTRUCTION:
   a. BOTTOM RAIL: 2" x 4" (1.73 LBS/FT);
   b. TOP TRACK: ONE PIECE (4.62 LBS/FT);
   c. UPRIGHTS: 2" x 2" (1.13 LBS/FT).
3. GATE POST: ASTM F1043, 4" O.D. (6.56 LBS/FT) SS40 STEEL PIPE. HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123. SUPPLEMENTAL 10-15 MIL PVC POWDER COATING IN ACCORDANCE WITH ASTM F104.
4. FITTINGS AND ACCESSORIES: ASTM F626 MALLEABLE OR PRESSED STEEL. HOT DIPPED GALVANIZED TO 1.2 OZ/ SF SUPPLEMENTAL 10-15 MIL PVC POWDER COATING IN ACCORDANCE WITH ASTM F104.
5. TRUCK ASSEMBLY: SWIVEL TYPE, ZINC DIE COATED STEEL, WITH 6 SEALED LUBRICANT BALL BEARING ROLLERS, 2" DIAMETER.
6. BOTTOM GUIDE ASSEMBLY: TWO 3" DIAMETER WHEELS, ATTACHED TO EACH SUPPORT POST.
7. SPACING OF GATE UPRIGHTS TO BE 6' MAXIMUM.
8. CONCRETE TO ACHIEVE 4000 PSI STRENGTH AT 28 DAYS.
9. INSTALL PVC PRIVACY SLATS IN CHAIN LINK FABRIC. COLOR TO BE SELECTED BY OWNER.

OPENING	LENGTH (L)	TAIL POST (T)
I/S POST FACE TO I/S POST FACE	O/S DIM OF GATE LEAF	O/S POST GATE TO O/S POST FACE
6'-0"	10'-6"	4'-0"
7'-0"	11'-6"	4'-0'
8'-0"	12'-6"	4'-0"
9'-0"	13'-6"	4'-0"
10'-0"	14'-6"	4'-0"
11'-0"	16'-0"	4'-6"
12'-0"	17'-0"	5'-0"
13'-0"	19'-0"	5'-6"
14'-0"	20'-6"	6'-0'
15'-0"	21'-6"	6'-0"
16'-0"	23'-0"	6'-6"
17'-0"	24'-6"	7'-0"
18'-0"	26'-0"	7'-6"
19'-0"	27'-6"	8'-0"
20'-0"	28'-6"	8'-0"
21'-0"	30'-0"	8'-6"
22'-0"	31'-6'	9'-0"
23'-0"	33'-0"	9'-6"
24'-0"	34'-6"	10'-0"
25'-0"	35'-6"	10'-0"
26'-0"	37'-0"	10'-6"
27'-0"	38'-6"	11'-0"
28'-0"	40'-0"	11'-6"
29'-0"	41'-6"	12'-0"
30'-0"	42'-6"	12'-0"

2 Chain Link Cantilevered Slide Gate - Vynil Coated - 6' Height

SCALE: NTS (323113.17 H2MX3) - U



NOTES:

1. FABRIC: ASTM A392, 2" MESH, 9 GAUGE STEEL CORE CHAIN LINK FENCE FABRIC. ASTM A641 GALVANIZED STEEL CORE WIRE, ZINC COATED TO 0.3 OZ/SF WITH 7-12 MIL PVC COATING IN ACCORDANCE WITH ASTM F668 CLASS 2B.
2. TOP AND BRACE RAILS: ASTM F1043 1.66" O.D. (1.84 LBS./FT.) SS40 STEEL PIPE. HOT DIPPED GALVANIZED TO 1.8 OZ/SF IN ACCORDANCE WITH ASTM A123. SUPPLEMENTAL 10-15 MIL PVC POWDER COATING IN ACCORDANCE WITH ASTM F1043
3. LINE POSTS: ASTM F1043 1.9" O.D. (2.28 LBS./FT.) SS40 STEEL PIPE. HOT DIPPED GALVANIZED TO 1.8 OZ/SF IN ACCORDANCE WITH ASTM A123 .SUPPLEMENTAL 10-15 MIL PVC POWDER COATING IN ACCORDANCE WITH ASTM F1043.
4. END, CORNER & PULL POSTS: ASTM F1043 2.375" O.D. (3.12 LBS./FT.) SS40 STEEL PIPE. HOT DIPPED GALVANIZED TO 1.8 OZ/SF IN ACCORDANCE WITH ASTM A123. SUPPLEMENTAL 10-15 MIL PVC POWDER COATING IN ACCORDANCE WITH ASTM F1043.
5. FITTINGS AND ACCESSORIES: ASTM F626 MALLEABLE OR PRESSED STEEL. HOT DIPPED GALVANIZED TO 1.2 OZ/SF. SUPPLEMENTAL 10-15 MIL PVC POWDER COATING IN ACCORDANCE WITH ASTM F1043.
6. BOTTOM TENSION WIRE: ASTM A824 NO. 7 GAUGE STEEL-MARCELLED WIRE, ZINC COATED TO 0.4 OZ/SF WITH 7-12 MIL PVC POWDER COATING IN ACCORDANCE WITH ASTM F1664.
7. VINYL COATING COLOR: TO BE SELECTED BY OWNER.
8. CONCRETE TO ACHIEVED 4000 PSI STRENGTH AT 28 DAYS.

3 Chain Link Fence - Vynil Coated - 6' Height

SCALE: NTS (323113.15 H2MX2) - U

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Melville, NY 11747
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CONSULTANTS:

MARK	DATE	DESCRIPTION

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:

PROJECT No.:	DATE:	SCALE:
NCDP1901	JANUARY 2020	

CLIENT

NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS

Five Towns Drainage Improvements: Cedarhurst Stormwater Pump Station (CFPW19000019)

HANLON DRIVE CEDARHURST, NEW YORK

CONTRACT

CONTRACT G GENERAL CONSTRUCTION

STATUS

NOT FOR CONSTRUCTION

SHEET TITLE

SITE DETAILS

DRAWING No.: **C7.1**

SHEET No.: 5 OF 22

GRAPHIC SCALE

50 0 25 50

(IN FEET)
1 inch = 50 ft.

LEGEND

DESCRIPTION	SYMBOL
TEST BORE/TEST HOLE	◆
PIEZOMETER TEST LOCATION	●

PROJECT #:	LAW2001		
SITE ADDRESS:	Cedarhurst Pump Station		
BORING ID:	SB-1	BORING DEPTH (FT): 26	BORING DIAMETER (IN): 3.5
DRILLING CONTRACTOR:	LAWES	DATE STARTED: 01/13/2020	DATE FINISHED: 01/13/2020
DRILLING METHOD:	Direct Push	TIME STARTED: 11:20	TIME FINISHED: 01:15
DRILLING EQUIPMENT:	Geoprobe 7822DT	LATITUDE: N/A	LONGITUDE: N/A
SAMPLING METHOD:	Split Spoon	PROJECT MANAGER: Brian Heflich	LOGGED BY: William Henfling

DEPTH (feet)	RECOVERY INTERVAL	LAB TEST INTERVAL	GRAPHIC LOG	DESCRIPTION NAME (USCS): saturation, color, texture, plasticity, minor components	ELEVATION (feet)	SPT, BLOWCOUNTS	SPT, N-values (blows/ft.) 0 20 40 60
0				Brown topsoil, trace gravel (SM)	6	spt = 2,3,5,6	◆ 8
2					4	spt = 7,7,7,9	◆14
4				Brown fine grained SAND, trace gravel (SP)	2	spt = 4,3,3,4	◆ 6
6 ▼				Wet, light brown fine grained SAND, trace gravel (SP)	0	spt = 5,5,4,4	◆ 9
8				Groundwater encountered at 7' below grade surface Wet, grey coarse to medium grained SAND, trace gravel (SW)	-2	spt = 1,2,2,3	◆ 4
10				Wet, light brown coarse to medium grained SAND, trace to little gravel (SW)	-4	spt = 6,7,11,15	◆18
12					-6	spt = 13,13,15,16	◆28
14					-8	spt = 22,20,21,19	◆41
16					-10	spt = 21,20,18,22	◆38
18					-12	spt = 28,23,25,19	◆48
20					-14	spt = 18,18,17,21	◆35
22					-16	spt = 23,20,23,23	◆43
24				Wet, light brown coarse to fine grained SAND, trace gravel (SW)	-18	spt = 22,16,16,19	◆32
26							

P.W. Grosser Consulting | **End of Boring Depth (feet):** 26 | **Water Table Symbol:** ▼ | Page 1 of 1

PROJECT #:	LAW2001		
SITE ADDRESS:	Cedarhurst Pump Station		
BORING ID:	SB-2	BORING DEPTH (FT): 26	BORING DIAMETER (IN): 3.5
DRILLING CONTRACTOR:	LAWES	DATE STARTED: 01/13/2020	DATE FINISHED: 01/13/2020
DRILLING METHOD:	Direct Push	TIME STARTED: 10:40	TIME FINISHED: 12:30
DRILLING EQUIPMENT:	Geoprobe 7822DT	LATITUDE: N/A	LONGITUDE: N/A
SAMPLING METHOD:	Split Spoon	PROJECT MANAGER: Brian Heflich	LOGGED BY: William Henfling

DEPTH (feet)	RECOVERY INTERVAL	LAB TEST INTERVAL	GRAPHIC LOG	DESCRIPTION NAME (USCS): saturation, color, texture, plasticity, minor components	ELEVATION (feet)	SPT, BLOWCOUNTS	SPT, N-values (blows/ft.) 0 20 40 60
0				Brown topsoil, trace gravel (SM)	6	spt = 1,1,1,2	◆ 2
2				Brown fine grained SAND, trace gravel (SP)	4	spt = 3,3,3,3	◆ 6
4				Brown medium to fine grained SAND, trace gravel (SP)	2	spt = 2,1,1,3	◆ 2
6 ▼				Wet, brown medium to fine grained SAND, trace gravel (SP)	0	spt = 2,3,2,3	◆ 5
8				Groundwater encountered at 6' below grade surface Wet, light brown medium to fine grained SAND, trace gravel (SP)	-2	spt = 5,6,8,9	◆14
10				Wet, light brown coarse to medium grained SAND, some to little gravel (SW)	-4	spt = 11,14,15,15	◆29
12					-6	spt = 12,11,14,12	◆25
14					-8	spt = 22,16,18,17	◆34
16					-10	spt = 15,16,20,21	◆36
18				Wet, light brown/orange coarse to medium grained SAND, trace gravel (SW)	-12	spt = 25,19,20,24	◆39
20				Wet, light brown medium to fine grained SAND, trace gravel (SP)	-14	spt = 28,25,24,22	◆49
22				Wet, light brown/orange coarse to fine grained SAND, little gravel (SW)	-16	spt = 20,15,19,19	◆34
24				Wet, light brown coarse to medium grained SAND, some gravel (SW)	-18	spt = 20,20,22,19	◆42
26					-20		

P.W. Grosser Consulting | **End of Boring Depth (feet):** 26 | **Water Table Symbol:** ▼ | Page 1 of 1

CONSULTANTS:

MARK	DATE	DESCRIPTION

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
SPC	MAM	SPC	

PROJECT No.:	DATE:	SCALE:
NCDP1901	JANUARY 2020	

CLIENT

NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS

Five Towns Drainage Improvements: Cedarhurst Stormwater Pump Station (CFPW19000019)

HANLON DRIVE
CEDARHURST, NEW YORK

CONTRACT

STATUS

NOT FOR CONSTRUCTION

SHEET TITLE

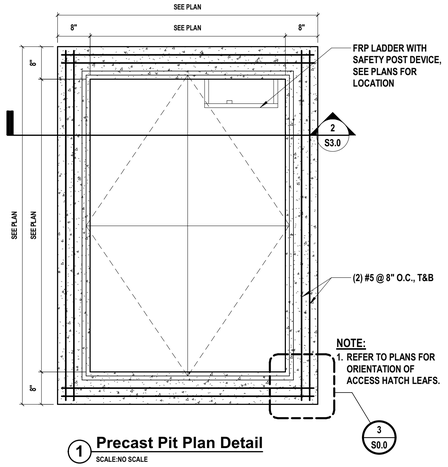
SOIL BORING & PIEZOMETER LOCATIONS

DRAWING No.

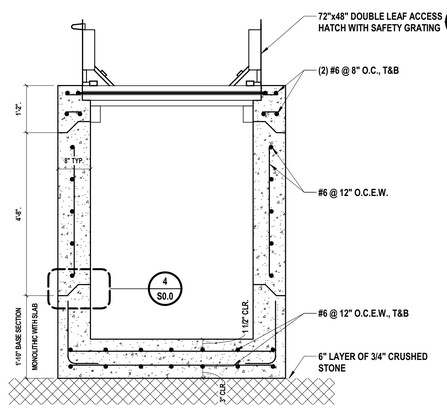
SB1.0

SHEET No. 6 OF 22

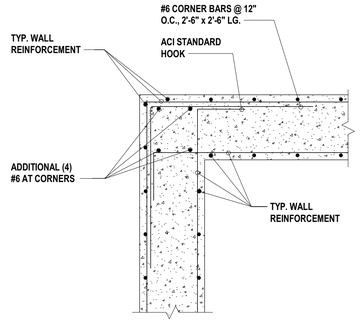
C:\Users\mmoreira\appdata\local\temp\AcPublish_7660\SB1.0 Soil Boring Plan (60%).dwg Last Modified: Jan 31, 2020 - 3:53pm Plotted on: Jan 31, 2020 - 4:07pm By MMoreira



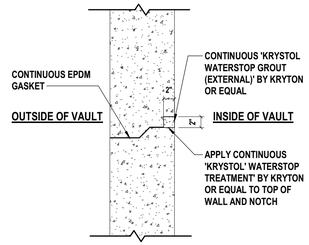
1 Precast Pit Plan Detail
SCALE:NO SCALE



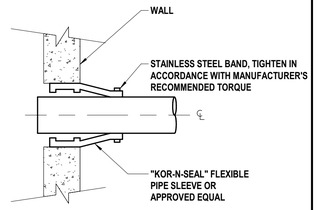
2 Precast Pit Section Detail
SCALE: 12" = 1'-0"



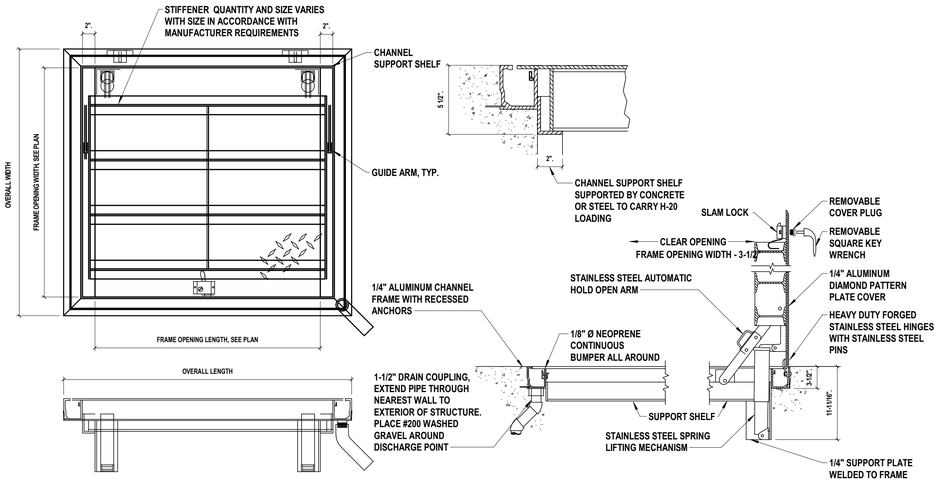
3 Typical Precast Pit Corner Detail
SCALE:NO SCALE



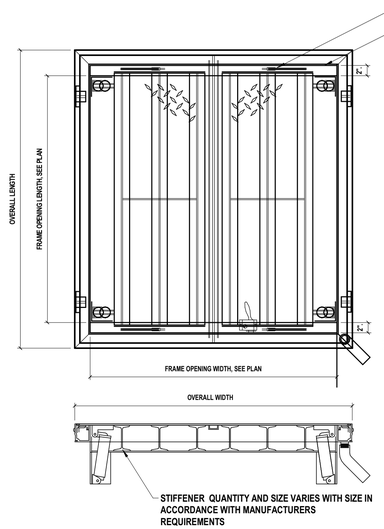
4 Precast Section Joint Detail
SCALE:NO SCALE



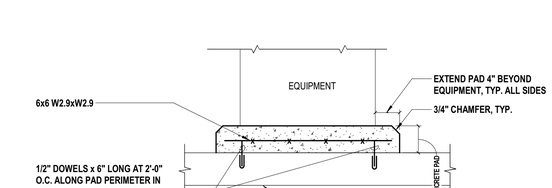
5 Flexible Pipe Sleeve Connection Detail
SCALE:NO SCALE



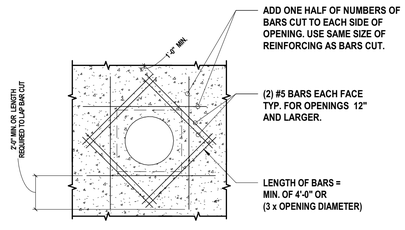
6 Single Leaf Access Hatch Detail
SCALE:NO SCALE



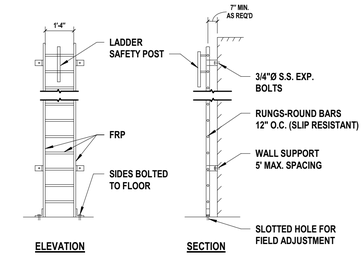
7 Double Leaf Access Hatch Detail
SCALE:NO SCALE



8 Concrete House Keeping Pad Detail
SCALE:NO SCALE



9 Pipe Penetration at Wall or Slab (Elevation)
SCALE:NTS



10 Ladder at Access Hatch w/ Ladder-Up
SCALE:NTS

H2M architects + engineers
538 Broad Hollow Road, 4th Floor East
Melville, NY 11747
631.756.8000 www.h2m.com

CONSULTANTS:

MARK	DATE	DESCRIPTION

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
SCH	AMZ		
PROJECT No:	DATE:	SCALE:	
NCDP 1901	JANUARY 2020	AS SHOWN	

CLIENT

Nassau County Department of Public Works

Five Towns Drainage Improvements: Cedarhurst Stormwater Pump Station

Nassau County, New York

CONTRACT

ALL CONTRACTS

STATUS

60% SUBMISSION

SHEET TITLE

STRUCTURAL NOTES AND DETAILS

DRAWING #

S0.0

SHEET # 7 OF 22

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MECHANICAL NOTES:

1. SUBMIT, FOR THE ENGINEER'S REVIEW, PIPING LAYOUT DRAWINGS TO A SCALE OF 1/4" = 1'-0". DO NOT INSTALL INSERTS IN CONCRETE OR BOX FOR WALL AND DECK OPENINGS UNTIL THE LOCATIONS AND ELEVATIONS OF ALL SLAB AND WALL PENETRATIONS HAVE BEEN VERIFIED AND CHECKED FOR ACCURACY. THE LOCATIONS OF WALL SLEEVES, OPENINGS AND OTHER CONCRETE INSERTS SHOWN ON THE DRAWINGS ARE BASED ON EQUIPMENT AND VALVES WHICH MAY OR MAY NOT HAVE DIMENSIONS EQUAL TO THAT BEING USED FOR THE PROJECT. LAYOUT DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS. THE LAYOUT DRAWINGS SHALL USE THE DIMENSIONS OF EQUIPMENT AND VALVES BEING USED FOR THE PROJECT OR PROVISIONS SHALL BE MADE TO ACCOUNT FOR DIMENSIONAL DIFFERENCES IN EQUIPMENT. SUBMIT THE LAYOUT DRAWINGS FAR ENOUGH IN ADVANCE SO THAT CONCRETE INSERTS CAN BE ORDERED AND INSTALLED IN SEQUENCE AND IN ACCORDANCE WITH THE CONSTRUCTION SCHEDULE. PREPARE PIPE LAYOUT DRAWINGS FOR ALL PROCESS PIPING, BOTH BURIED AND EXPOSED, WITH A DIAMETER EQUAL TO OR GREATER THAN 4".
2. SUPPORT AND ANCHOR ALL EXPOSED PIPING IN ACCORDANCE WITH THE PERFORMANCE REQUIREMENT CONTAINED IN THE SPECIFICATIONS. WHERE METHODS OF SUPPORT ARE SHOWN, SUCH METHODS SHALL BE CONSIDERED AS SUGGESTED. SUCH SUGGESTED METHODS SHALL NOT RELIEVE THE CONTRACTOR FROM INSTALLING ALL PIPING IN ACCORDANCE WITH THE SPECIFIED REQUIREMENTS.
3. SUBMIT DETAILS OF ALL SUPPORT FOR ALL PIPING GREATER THAN 4" IN DIAMETER.
4. PROVIDE MECHANICAL IDENTIFICATION AS SPECIFIED.
5. PROVIDE ENGRAVED SIGNS AT LOCATIONS SELECTED BY THE ENGINEER. ALL DANGER SIGNS SHALL BE ALUMINUM OSHA PLATES. ALL CAUTION AND WARNING SIGNS SHALL BE GRAPHIC OSHA SIGNS. THE FOLLOWING SIGNS SHALL BE PROVIDED, QUANTITY AS INDICATED IN PARENTHESIS:
   "CAUTION - THIS EQUIPMENT STARTS AND STOPS AUTOMATICALLY" (FOR EACH AXIAL FLOW PUMP)
   "WARNING - HIGH VOLTAGE KEEP AWAY" (AT ALL MCC LOCATIONS)
   "WARNING - CONFINED SPACE" (AT ALL VAULT AND WET WELL ENTRANCES)
   SEE SPECIFICATIONS FOR ADDITIONAL SIGNAGE REQUIREMENTS.
6. UNUSED MANUFACTURER SUPPLIED FIELD SERVICES SHALL BE CREDITED TO THE OWNER AS SPECIFIED.
7. ALL MECHANICAL JOINT FITTINGS SHALL BE PROVIDED WITH THRUST BLOCKING AS DETAILED IN THE DRAWINGS. IN ADDITION TO THRUST BLOCKING, EACH MECHANICAL JOINT FITTING SHALL BE MECHANICALLY RESTRAINED. THE MECHANICAL JOINT RESTRAINT FOR FITTING JOINTS SHALL BE AS SPECIFIED. INSTALL MECHANICAL JOINT RESTRAINTS ON UPSTREAM AND DOWNSTREAM SIDES OF ALL TEE FITTINGS USED FOR IN-LINE CLEANOUTS WHERE SHOWN ON THE DRAWINGS. PROVIDE THRUST BLOCKING TO SUPPORT EACH TEE.
8. CONSTRUCT THRUST BLOCKS AND PIPE SUPPORT PIERS WHERE SHOWN ON THE DRAWINGS AND AS NECESSARY TO SUPPORT PIPING.
9. SMALL DIAMETER PIPING, VALVES AND ACCESSORIES SHALL COMPLY WITH THE SPECIFIED REQUIREMENTS.
10. ALL MOUNTING HARDWARE, REGARDLESS OF LOCATION AND/OR APPLICATION, SHALL BE 304 STAINLESS STEEL.
11. PUMP DROP PIPE AND DROP PIPE ACCESSORIES SHALL BE PROVIDED BY THE PUMP MANUFACTURER
12. PUMP DROP PIPE A-36 STEEL PIPE.
13. PUMP DISCHARGE PIPE A-36 STEEL PIPE WITH PLAIN END FOR FLEXIBLE CONNECTION. INSTALLATION HOLE DIAMETER SHALL NOT EXCEED PIPE DIAMETER +4"
14. DETERMINE OVERALL LENGTH OF DROP PIPE AND DISCHARGE PIPE REQUIRED WITH PUMP MANUFACTURER CERTIFIED SHOP DRAWINGS
15. PROVIDE PUMP SEAT BRACKETS INSIDE DROP PIPE TO PREVENT PUMP FROM ROTATING DURING USE.

ABBREVIATIONS

ABBREVIATION	DEFINITION
%	PERCENT
@	AT
A.F.F.	ABOVE FINISHED FLOOR
BOD	BIOCHEMICAL OXYGEN DEMAND
C.L.D.I.	CEMENT-LINED DUCTILE IRON
CFM	CUBIC FEET PER MINUTE
CL	CENTERLINE
DCV	DOUBLE CHECK VALVE
EL.	ELEVATION
FLG	FLANGED
FPT	FEMALE PIPE THREAD
FRP	FIBERGLASS REINFORCED PLASTIC
GAC	GRANULAR ACTIVATED CARBON
GAL	GALLONS
GHS	GLOBALLY HARMONIZED SYSTEM
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
HP	HORSE POWER
I.D.	INSIDE DIAMETER
INV	INVERT
LB	POUNDS
MAX.	MAXIMUM
MGD	MILLION GALLONS PER DAY
MIN.	MINIMUM
MPT	MALE PIPE THREAD
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NO.	NUMBER
NPT	NATIONAL PIPE THREAD
O.C.	ON CENTER
O.C.E.W.	ON CENTER EACH WAY
O.D.	OUTSIDE DIAMETER
PE	PLAIN END
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
Q ADF	AVERAGE DAILY FLOW
Q PF	PEAK DAILY FLOW
RPZ	REDUCED PRESSURE ZONE DEVICE
S.S.	STAINLESS STEEL
SQ. FT	SQUARE FEET
T&B	TOP AND BOTTOM
T&C	THREADED AND COUPLED
TN	TOTAL NITROGEN
TSS	TOTAL SUSPENDED SOLIDS
TYP.	TYPICAL
W/	WITH
WL	WATER LEVEL
°	DEGREES
±	PLUS OR MINUS, APPROXIMATELY
Ø	DIAMETER

PIPING SCHEDULE

ABBREVIATION	DESCRIPTION	PIPE TYPE

H2M architects + engineers

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Melville, NY 11747
631.756.8000 www.h2m.com

CONSULTANTS:

MARK	DATE	DESCRIPTION

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
SCH	AMZ		

PROJECT No:	DATE:	SCALE:
NCDP 1901	JANUARY 2020	AS SHOWN

CLIENT

Nassau County Department of Public Works

Five Towns Drainage Improvements: Cedarhurst Stormwater Pump Station

Nassau County, New York

CONTRACT

ALL CONTRACTS

STATUS

60% SUBMISSION

SHEET TITLE

MECHANICAL LEGEND, EQUIPMENT TAGS AND NOTES

DRAWING #

M0.0

SHEET # 8 OF 22

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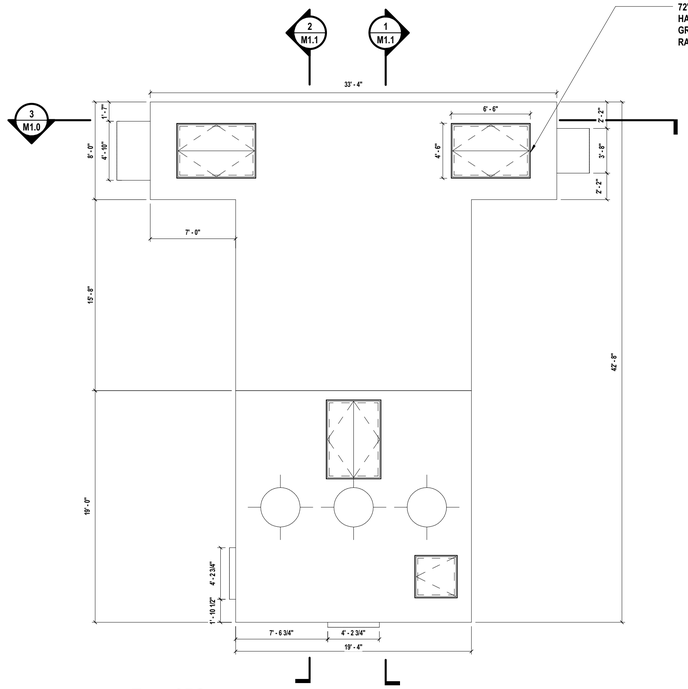
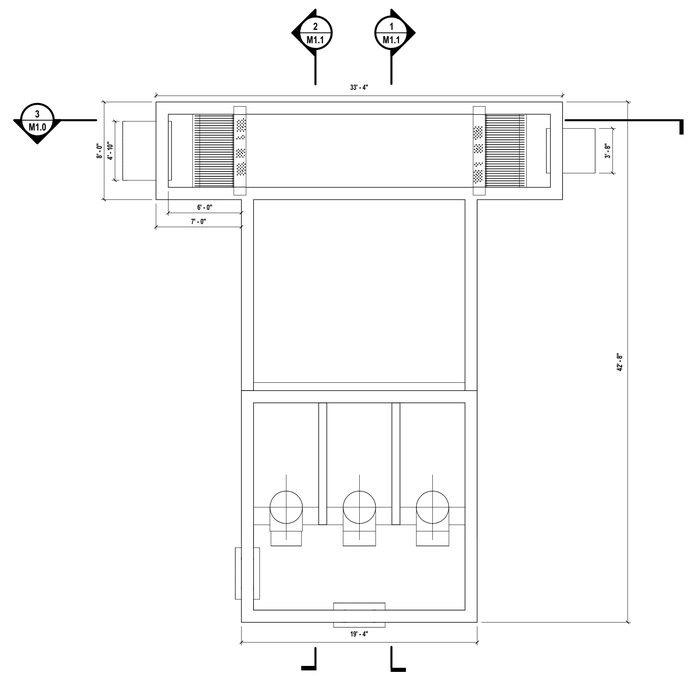
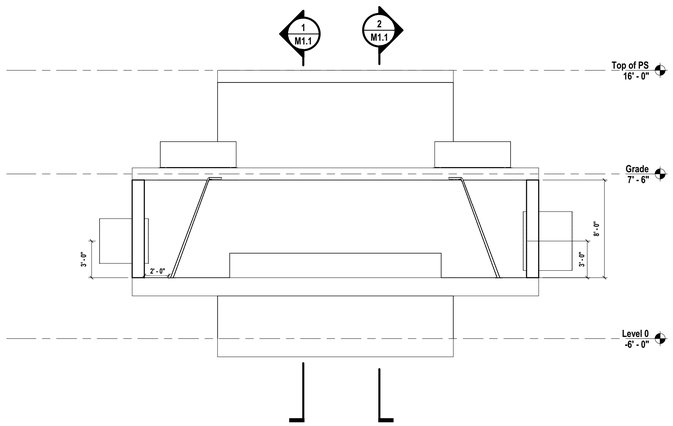


1 Top of PS
SCALE 3/16" = 1'-0"



2 Top of PS Below Slab
SCALE: 3/16" = 1'-0"



3 Bar Screen View
SCALE: 3/16" = 1'-0"

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SCH	AMZ		

PROJECT No:	DATE:	SCALE:
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Nassau County, New York

CONTRACT

ALL CONTRACTS

STATUS

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SHEET TITLE

PUMP STATION PIPING PLAN

DRAWING #

M1.0

SHEET # 9 OF 22

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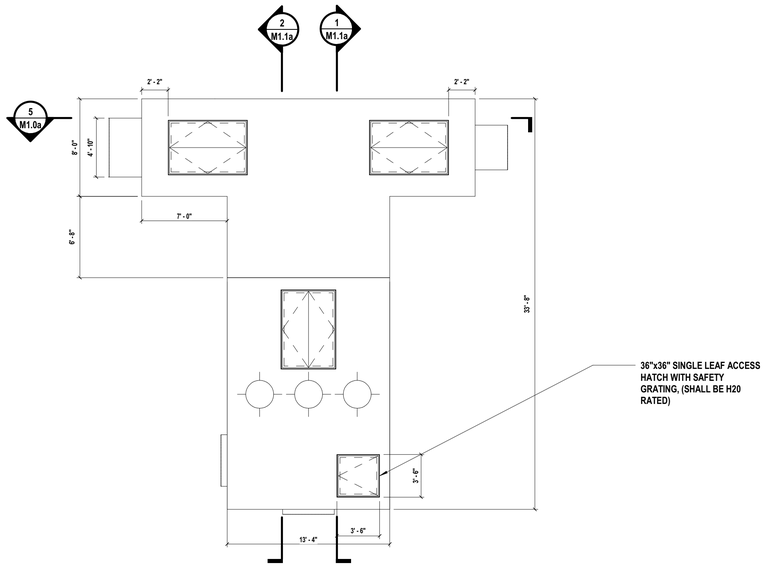
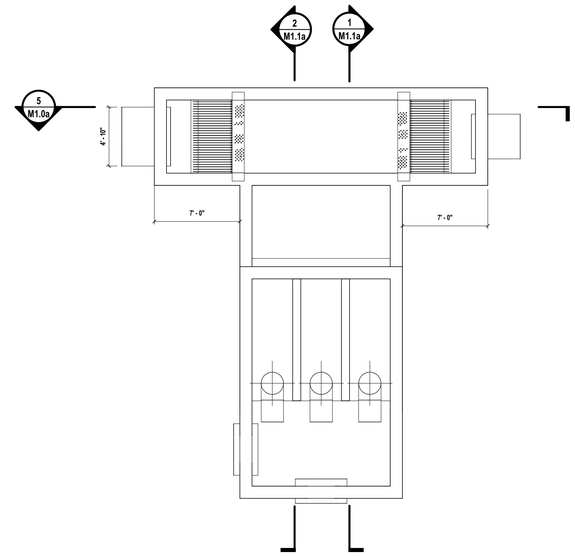
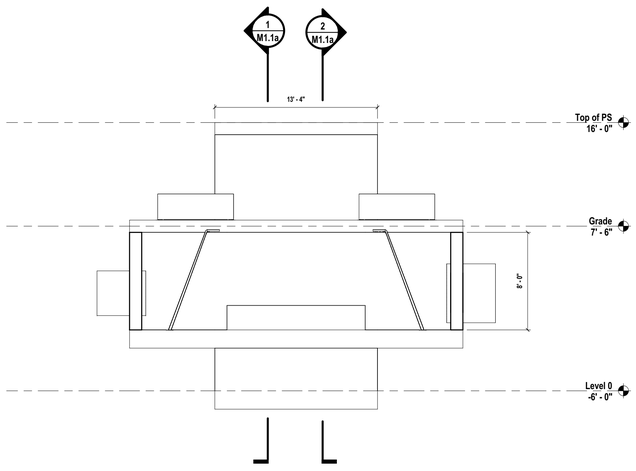


3 **Top of Pump Station (Alternate)**
SCALE: 3/16" = 1'-0"



2 **Top of Pump Station Below Slab (Alternate)**
SCALE: 3/16" = 1'-0"



5 **Bar Screen View (Alternate)**
SCALE: 3/16" = 1'-0"

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PROJECT No:	DATE:	SCALE:
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Nassau County, New York

CONTRACT

ALL CONTRACTS

STATUS

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SHEET TITLE

PUMP STATION PIPING PLAN (ALTERNATE 3 PUMP OPERATION)

DRAWING #

M1.0a

SHEET # 10 OF 22

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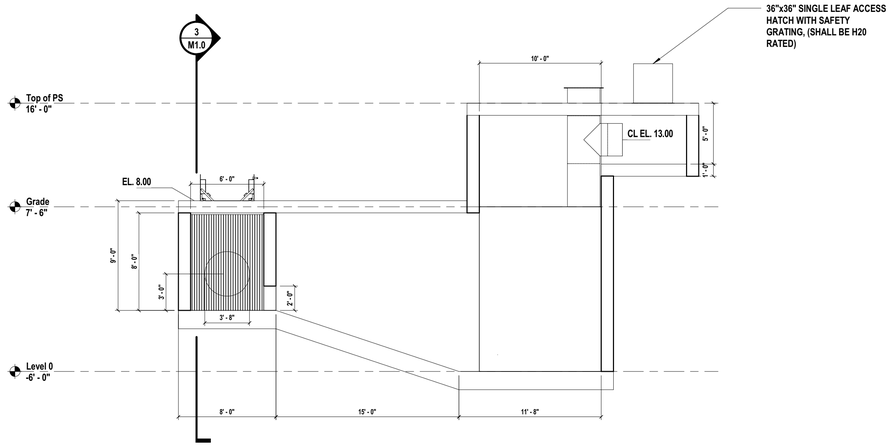
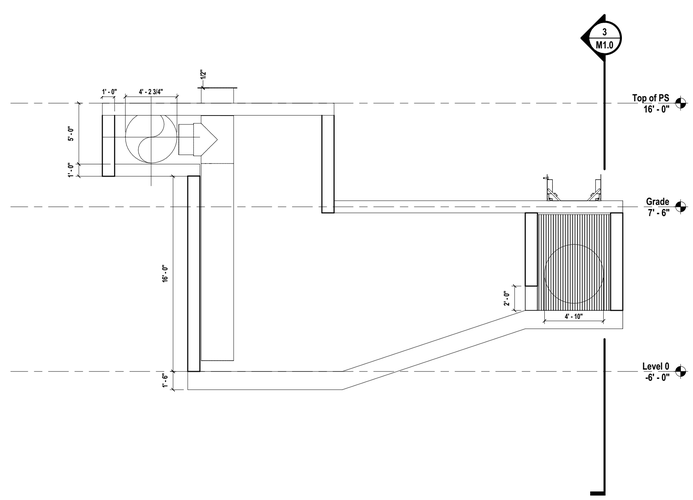


1 **West View**
SCALE: 3/16" = 1'-0"



2 **East View**
SCALE: 3/16" = 1'-0"

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CONSULTANTS:

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DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
Designer	Author		

PROJECT No:	DATE:	SCALE:
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Five Towns Drainage Improvements: Cedarhurst Stormwater Pump Station

Nassau County, New York

CONTRACT

ALL CONTRACTS

STATUS

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SHEET TITLE

PUMP STATION PIPING PLAN CONT.

DRAWING #

M1.1

SHEET # 11 OF 22

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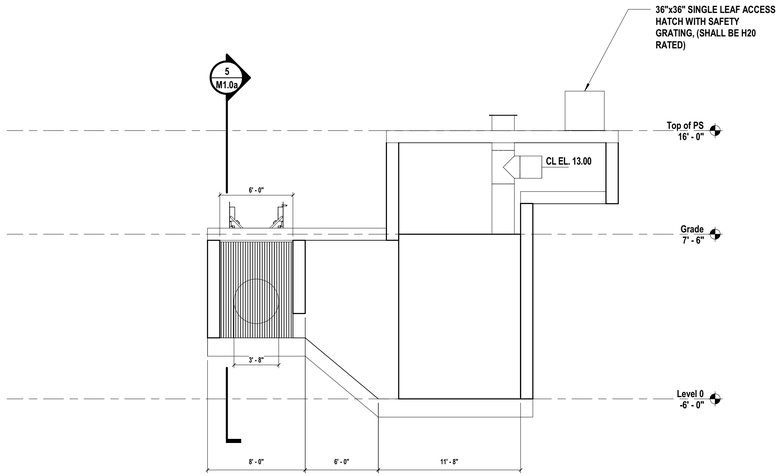
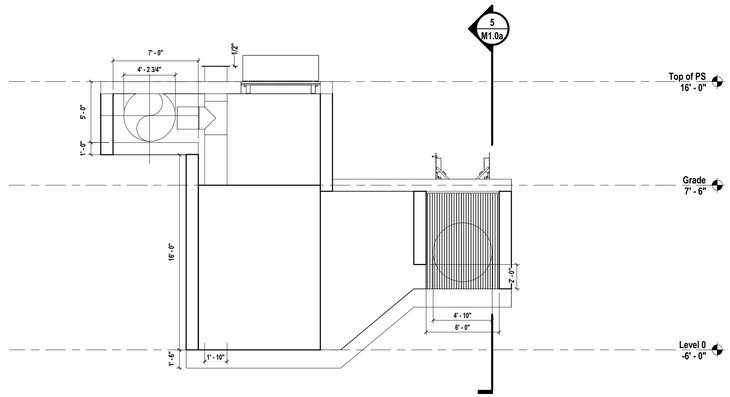


1 **West View (Alternate)**
SCALE: 3/16" = 1'-0"



2 **East View (Alternate)**
SCALE: 3/16" = 1'-0"

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PROJECT No:	DATE:	SCALE:
NCDP 1901	JANUARY 2020	AS SHOWN

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Nassau County, New York

CONTRACT

ALL CONTRACTS

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SHEET TITLE

PUMP STATION PIPING PLAN CONT. (ALTERNATE 3 PUMP OPERATION)

DRAWING #

M1.1a

SHEET # 12 OF 22

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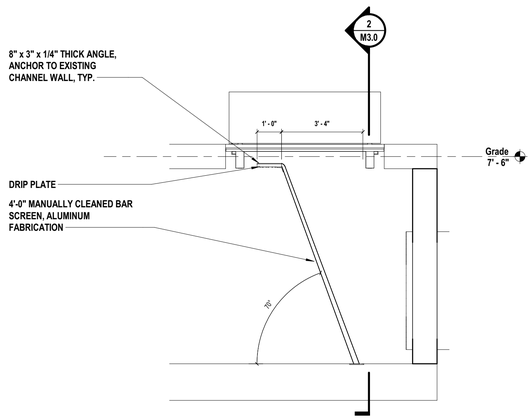
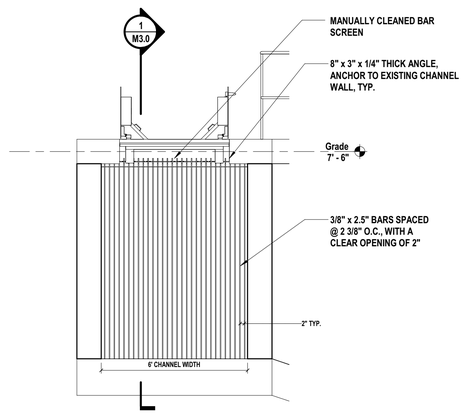


1 Manually Cleaned Bar Screen Elevation

SCALE: 3/8" = 1'-0"



2 Manually Cleaned Bar Screen Section

SCALE: 3/8" = 1'-0"

LEVEL SENSOR SCHEDULE

ULTRASONIC LEVEL SENSOR No.	ELEVATION	FLOAT SWITCH
1		HIGH
2		HIGH LEVEL ALARM
3		LSH-3
4		LSH-2
5		LSH-1
6		LSL-1
7		LSL-2
8		LSL-3
9		LOW LEVEL ALARM

3 Level Sensor Schedule

SCALE: NOT TO SCALE

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Nassau County, New York

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MECHANICAL DETAILS

DRAWING #

M3.0

SHEET # 13 OF 22

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ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BCU	BUILDING CONTROL UNIT
BTU	BRITISH THERMAL UNIT
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
COMM.	COMMUNICATION
CV	CONTROL VALVE
(D)	DEMOLISHED
DB	DRY BULB
DCV	DEMAND CONTROLLED VENTILATION
DEG. F	DEGREES FAHRENHEIT
DIA	DIAMETER
DX	DIRECT EXPANSION
"E"	ELECTRICAL CONTRACTOR
(E)	EXISTING
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATING
ESP	EXTERNAL STATIC PRESSURE
FAI	FRESH AIR INTAKE
FD	FLOOR DRAIN
FLA	FULL LOAD AMPS
FT. H2O	FEET OF WATER
'G'	GENERAL CONSTRUCTION CONTRACT
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HEIGHT
'H'	HVAC CONTRACT
HP	HORSEPOWER
IN.	INCHES
IN. W.C.	INCHES WATER COLUMN (WATER GUAGE)
KW	KILOWATTS
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LCD	LIQUID CRYSTAL DISPLAY
LDB	LEAVING DRY BULB TEMPERATURE
LWB	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
M	METER
MAX	MAXIMUM
MBH	1,000 BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
MFA	MANUFACTURER
N.C.	NORMALLY CLOSED
N.O	NORMALLY OPEN
NFPA	NATIONAL FIRE PROTECTION AGENCY
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OAI	OUTSIDE AIR INTAKE
OD	OUTSIDE DIAMETER
OED	OPEN ENDED DUCT
'P'	PLUMBING CONTRACT
PD	PRESSURE DROP
PSIG	LBS / PER SQUARE INCH (GUAGE PRESSURE)
RD	ROOF DRAIN
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
SAT	SUPPLY AIR TEMPERATURE
SEER	SEASONAL ENERGY EFFICIENCY RATING
TEMP	TEMPERATURE
TG	TRANSFER GRILLE
TYP	TYPICAL
VFD	VARIABLE FREQUENCY DRIVE
W	WIDTH
WB	WET BULB
WMS	WIRE MESH SCREEN

DUCTWORK LEGEND

SYMBOL	ABBREV	DESCRIPTION
		NEW DUCTWORK WITH 45 DEGREE TAKE OFF
	VD	VOLUME DAMPER
	CD	ROUND SUPPLY CEILING DIFFUSER
	SEE AIR DEVICE SCHEDULE	SIDEWALL SUPPLY, RETURN OR EXHAUST
	SEE AIR DEVICE SCHEDULE	SQUARE SUPPLY CEILING DIFFUSER
	SEE AIR DEVICE SCHEDULE	CEILING RETURN OR EXHAUST GRILLE
		FLEX DUCT
	FC	FLEXIBLE CONNECTION
		TURNING VANES
		RECTANGULAR TO ROUND TRANSITION
	AL	ACOUSTICAL LINING
		END CAP
	SEE AIR DEVICE SCHEDULE	SUPPLY DIFFUSER WITH DIRECTIONAL FLOW (SOLID HATCH INDICATES BLANK OFF PANEL)
		SUPPLY DUCT DROP
		RETURN/EXHAUST DUCT DROP
		SUPPLY DUCT RISE
		RETURN/EXHAUST DUCT RISE
CM RAL D WP S	DSD	DUCT SMOKE DETECTOR (SUPPLY)
CM RAL D WP R	DSD	DUCT SMOKE DETECTOR (RETURN)
M	MD	MOTORIZED DAMPER WITH ACTUATOR
	FD/AD	FIRE DAMPER WITH ACCESS DOOR
	FSD/AD	FIRE SMOKE DAMPER WITH ACCESS DOOR
		WORK TO BE REMOVED
		POINT OF DISCONNECTION FROM EXISTING
		POINT OF RECONNECTION TO EXISTING

CONTROLS LEGEND

SYMBOL	ABBREV	DESCRIPTION
C		CARBON MONOXIDE SENSOR
T		THERMOSTAT
S		DIGITAL TEMPERATURE SENSOR
H		HUMIDITY SENSOR
C2		CARBON DIOXIDE SENSOR

PIPING LEGEND

SYMBOL	ABBREV	DESCRIPTION
		NEW WORK
		PIPING DOWN/ PIPING UP
		BALL VALVE WITH HOSE END CONNECTION
	TH	THERMOMETER
	U	UNION
	FPC	FLEXIBLE PIPE CONNECTION/ FLEX PIPE
		DIRECTION OF FLOW
	PSR	PRESSURE SAFETY AND RELIEF VALVE
	PRV	PRESSURE REDUCING VALVE
	BV	BALL VALVE
	BA	BALANCING VALVE
	BFV	BUTTERFLY VALVE
		TEMPERATURE SENSOR WITH THERMOWELL
	GA	GATE VALVE
	GB	GLOBE VALVE
	AV	AUTOMATIC AIR VENT
	CV	2-WAY CONTROL VALVE
	CV	3-WAY CONTROL VALVE
		PLUG VALVE
	STR	STRAINER
	FD	FLOOR DRAIN
S		AIR SEPARATOR
F&T		STEAM TRAPS (INDICATE TYPE)
	CH	CHECK VALVE
	PG	PRESSURE GAUGE WITH GAUGE COCK
	RED	REDUCER
CO	CO	CLEANOUT END CAP
		CAPPED PIPE
		PUMP
		WORK TO BE REMOVED
		POINT OF DISCONNECTION FROM EXISTING
		POINT OF RECONNECTION TO EXISTING
	TDV	TRIPLE DUTY VALVE

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CONSULTANTS:

MARK	DATE	DESCRIPTION

DESIGNED BY: SCH	DRAWN BY: AMZ	CHECKED BY:	REVIEWED BY:
PROJECT No: NCDP 1901	DATE: JANUARY 2020	SCALE: AS SHOWN	

CLIENT

Nassau County Department of Public Works

Five Towns Drainage Improvements: Cedarhurst Stormwater Pump Station

Nassau County, New York

CONTRACT

ALL CONTRACTS

STATUS

60% SUBMISSION

SHEET TITLE

HVAC LEGEND AND DETAILS

DRAWING #

H0.0

SHEET # 14 OF 22

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ELECTRIC HEATERS

EQUIPMENT NO.	BUILDING	TYPE	PERFORMANCE/ CONSTRUCTION REQUIREMENTS							BASIS OF DESIGN INFORMATION				NOTES
			FAN DATA			TOTAL CAPACITY (MBH)	ELECTRIC DATA			MANUFACTURER	MODEL NO.	NOMINAL DIMENSIONS L x W x H (IN.)	NOMINAL OPERATING WEIGHT (LBS.)	
			AIR FLOW (CFM)	HP	THROW (FT.)		VOLTAGE/ PHASE	KW	FLA					

1. INTEGRAL THERMOSTAT KIT
2. DISCONNECT SWITCH
3. WALL SWIVEL MOUNTING BRACKET
4. FAN ONLY SWITCH

EXHAUST FANS

EQUIPMENT NO.	BUILDING	PERFORMANCE/CONSTRUCTION REQUIREMENTS						BASIS OF DESIGN INFORMATION								NOTES
		AIR FLOW (CFM)	EXT S.P. (IN. W.G.)	FAN RPM	BHP	DRIVE TYPE	FAN TYPE	MANUFACTURER	MODEL NO.	NOMINAL DIMENSIONS L x W x H (IN.)	NOMINAL OPERATING WEIGHT (LBS.)	NOMINAL WALL OPENING (IN.)	ELECTRICAL DATA			INLET SOUND POWER DATA (SONES)	
													VOLTAGE/ PHASE	MOTOR POWER	MOTOR RPM		

1. VARI-GREEN EC MOTOR W/ MOUNTED POTENTIOMETER DIAL (SEPARATE MOTOR STARTER NOT REQUIRED)
2. OSHA APPROVED MOTOR SIDE GUARD
3. PERMATECTOR COATING ON FAN AND ATTACHED ACCESSORIES
4. NEMA-1 DISCONNECT SWITCH
5. SPRING BASE ISOLATORS WITH MOUNTING RAILS
6. CLOCKWISE UPBLAST CONFIGURATION

SUPPLY FANS

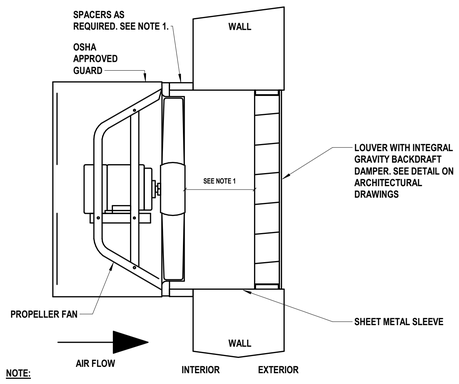
EQUIPMENT NO.	BUILDING	PERFORMANCE/CONSTRUCTION REQUIREMENTS						BASIS OF DESIGN INFORMATION								NOTES
		AIR FLOW (CFM)	EXT S.P. (IN. W.G.)	FAN RPM	BHP	DRIVE TYPE	FAN TYPE	MANUFACTURER	MODEL NO.	NOMINAL DIMENSIONS L x W x H (IN.)	NOMINAL OPERATING WEIGHT (LBS.)	ELECTRICAL DATA			INLET SOUND POWER DATA (SONES)	
												VOLTAGE/ PHASE	MOTOR POWER	MOTOR RPM		

1. SPRING HANGING ISOLATORS AND BRACKETS
2. NEMA-1 DISCONNECT SWITCH
3. PERMATECTOR COATING ON FAN AND ATTACHED ACCESSORIES

LOUVERS

EQUIPMENT NO.	BUILDING	PERFORMANCE/CONSTRUCTION REQUIREMENTS					BASIS OF DESIGN INFORMATION		NOTES
		AIR FLOW (CFM)	MAX. PD (IN. W.C.)	MINIMUM FREE AREA REQUIRED (SQ. FT.)	OVERALL NOMINAL DIMENSIONS (IN.) (W x H)	SERVICE	MANUFACTURER	MODEL NO.	

1. 120V MOTORIZED ACTUATOR. POWER OPEN, SPRING RETURN (MS4120F1006 BY HONEYWELL)
2. 120V MOTORIZED ACTUATOR. SPRING OPEN, POWER RETURN (MS4120F1006 BY HONEYWELL)
3. ALUMINIZED INSECT SCREEN
4. ALUMINIZED BIRDSCREEN
5. KYNAR COATING (COORDINATE COLOR WITH OWNER)
6. INTEGRAL GRAVITY BACKDRAFT DAMPER



NOTE:

1. MAINTAIN MINIMUM CLEARANCE BETWEEN FAN PROPELLER AND LOUVER AS PER MANUFACTURER'S INSTALLATION MANUAL. PROVIDE SPACERS AS NECESSARY TO MAINTAIN CLEARANCE CALLED FOR IN MANUAL. SPACERS SHALL BE PRESSURE TREATED LUMBER. FOR MASONRY WALLS, FASTENERS SHALL BE 1/4" MASONRY SCREWS WITH MAXIMUM 8" BETWEEN FASTENERS. ALL FASTENERS SHALL BE COATED FOR USE WITH PRESSURE TREATED LUMBER.

1 **Exhaust Fan Detail**
SCALE:NTS

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CONSULTANTS:

MARK	DATE	DESCRIPTION

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
SCH	AMZ		

PROJECT No:	DATE:	SCALE:
NCDP 1901	JANUARY 2020	AS SHOWN

CLIENT

Nassau County Department of Public Works

Five Towns Drainage Improvements: Cedarhurst Stormwater Pump Station

Nassau County, New York

CONTRACT

ALL CONTRACTS

STATUS

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SHEET TITLE

HEATING AND VENTILATION SCHEDULES

DRAWING #

H2.0

SHEET # 15 OF 22

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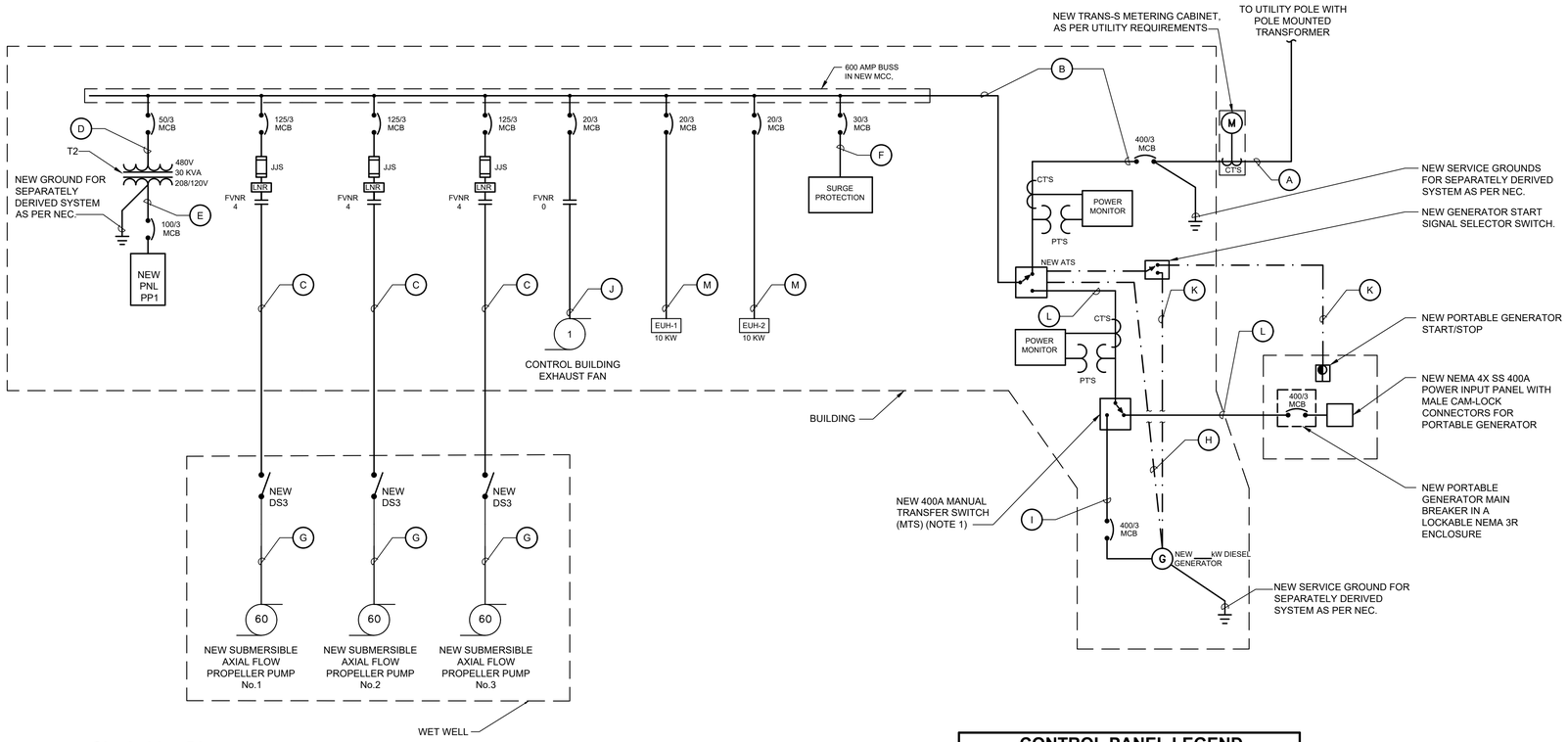


Single Line Diagram

SCALE: NO SCALE

NOTES:

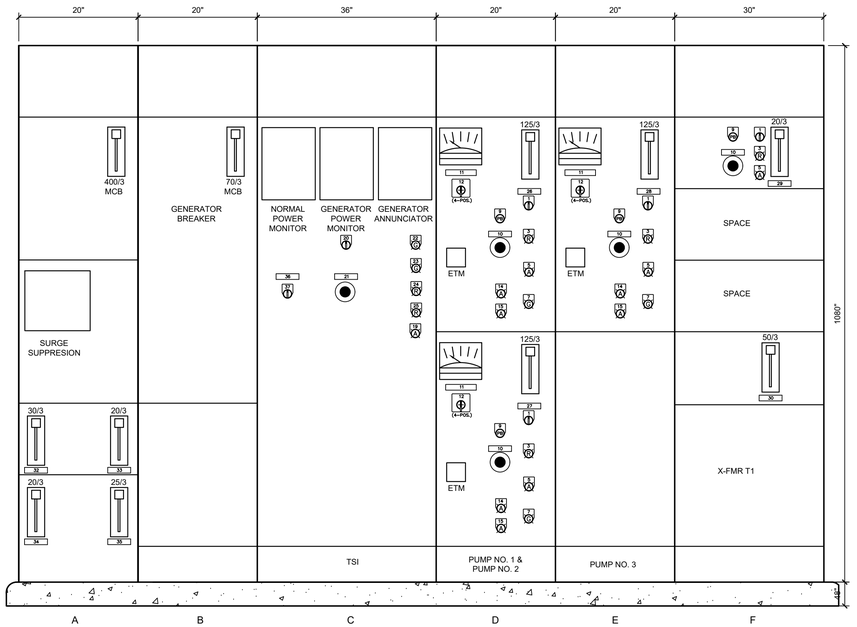
1. MTS SHALL BE ELECTRICALLY OPERATED AND AUTOMATICALLY RETURN TO STATIONARY SOURCE WHEN STATIONARY SOURCE IS AVAILABLE.

SINGLE LINE POWER DIAGRAM

FEEDER	CONDUCTOR & CONDUITS FEEDER SCHEDULE
A	4 #3/0 AWG IN 2-1/2" E.C.
B	4 #3/0 AWG + #4 AWG GND
C	3 #3 AWG + #3 AWG GND IN 1" E.C.
D	3 #8 AWG + #10 AWG GND
E	4 #3 AWG + #8 AWG GND
F	MICRO - Z CABLE
G	SUBMERSIBLE PUMP CABLE
H	10 #14 AWG + BELDEN 9729 CABLE IN 1 1/2" E.C.
I	4 #3 AWG + #8 AWG GND IN 1 1/4" E.C.
J	3 #12 AWG + #12 AWG GND IN 3/4" E.C.
K	2 #12 AWG + #12 AWG GND IN 3/4" E.C.
L	4 #3/0 AWG + #4 AWG GND IN 2 1/2" E.C.
M	3 #10 AWG + #10 AWG GND IN 3/4" E.C.

CONTROL PANEL LEGEND

SEL2	SELECTOR SWITCH - TWO POSITION
SEL3	SELECTOR SWITCH - THREE POSITION
SEL4	SELECTOR SWITCH - FOUR POSITION
PB	PUSH BUTTON SWITCH - MOMENTARY
PB-M	PUSH BUTTON SWITCH - MAINTAINED



MCC Elevation

SCALE: NO SCALE

CONTROL ELEVATION SCHEDULE

ITEM	DESCRIPTION	COLOR/TYPE
1	H-O-A SWITCH	SEL3
2	NOT USED	-
3	RUN	RED
4	NOT USED	RED
5	OVERLOAD	AMBER
6	NOT USED	AMBER
7	OFF	GREEN
8	NOT USED	-
9	RESET	PB
10	LIGHTED EMERGENCY STOP	PB-M
11	AMMETER	
12	A-B-C-OFF SELECTOR	SEL4
13	NOT USED	-
14	SEAL LEAK	AMBER
15	OVERTEMP	AMBER
16	NOT USED	-
17	NOT USED	-
18	NOT USED	-
19	AC POWER LOSS	RED
20	MODE SELECTOR	SEL4
21	GENERATOR KILL SWITCH	PB-M
22	NORMAL POWER AVAILABLE	GREEN
23	NORMAL POWER ON	GREEN
24	EMERGENCY POWER AVAILABLE	RED
25	EMERGENCY POWER 0N	RED
26	PUMP NO. 1	
27	PUMP NO. 2	
28	PUMP NO. 3	
29	EXHAUST FAN (EF-1)	
30	XFMR MAIN BREAKER	
31	NOT USED	
32	SURGE PROTECTION	
33	EUH-1	
34	EUH-2	
35	SPARE	
36	GENERATOR START SIGNAL	
37	PERMANENT/PORTABLE SELECTOR SWITCH	SEL2, MUTLI-POLE

CEDARHURST STORMWATER PUMP STATION

Panelboard: PP1 | Voltage: 208Y/120 | Phase: 3 | Wire: 4 | AIC Rating: 42,000
Manufacturer: SIEMENS | Mains: 150A | Mains: 225A
Panel Type: P2 | Mounting: MCC | Options: - | Note: -
NEMA Type Enclosure: Type 12

LOAD DESCRIPTION	BREAKER OPTION	TRIP	POLES	CIRC. No	A	B	C	A	B	C	CIRC. No	POLES	TRIP	BREAKER OPTION	LOAD DESCRIPTION
INTERIOR LIGHTS		20A	1	1	VA			VA			2	1	20A		EXTERIOR LIGHTS
RECEPTACLES		20A	1	3		VA			VA		4	1	20A		ALARM PANEL
FUEL TANK ALARM		20A	1	7	VA			VA			8	1	20A		BATTERY CHARGER
PUMP CONTROL PANEL		20A	1	11			VA			VA	12	1	20A		ENGINE HTR
SPARE		20A	1	13	VA			VA			14	1	20A		SPARE
SPARE		-	1	17							18	1	-		SPARE
SPARE		-	1	19							20	1	-		SPACE
SPACE		-	-	21							22	-	-		SPACE
SPACE		-	-	23						-	24	-	-		SPACE

Connected Totals: ØA - KVA; ØB - KVA; ØC - KVA; Total - KVA - Amperes

(All Phases to be balanced to within 7% using Actual Load Totals.)

Breaker Options:
AS - Powertrink AS Breaker
LO - Handle lock-off device
ST - Shunt Trip Type
AUX - Auxiliary Contacts
PA - Handle Padlock Attachment
GFCI - Ground Fault Circuit Interrupter
HACR - Heating, A/C & Refrigeration
SF - Subfeed
TC - Time Clock Control

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CONSULTANTS:

MARK	DATE	DESCRIPTION

STATE OF NEW YORK · SCOTT D. LEHN · 087145 · LICENSED PROFESSIONAL ENGINEER

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
SCH	AMZ		

PROJECT No.:	DATE:	SCALE:
NCDP 1901	JANUARY 2020	AS SHOWN

CLIENT

Nassau County Department of Public Works

FIVE TOWNS DRAINAGE IMPROVEMENTS: CEDARHURST STORMWATER PUMP STATION

Nassau County, NY

CONTRACT

ALL CONTRACTS

STATUS

60% SUBMISSION

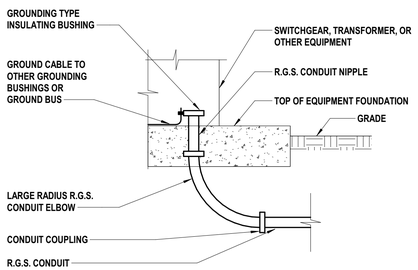
SHEET TITLE

SINGLE LINE DIAGRAM AND MCC ELEVATION

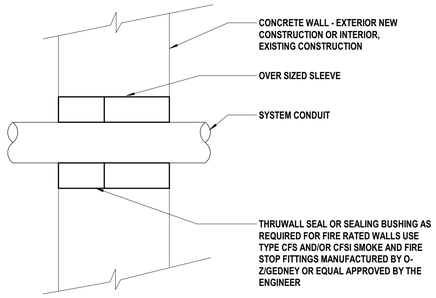
DRAWING # **E3.0**

SHEET # 16 OF 22

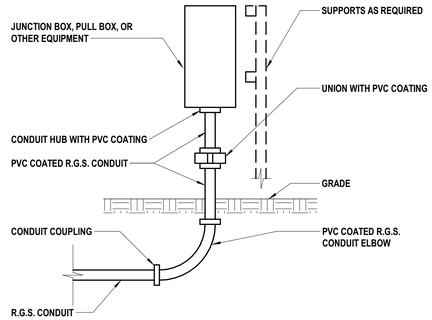
X:\NCDP\Nassau County DPW\ - 1901\7-NCDP1901 Cedarhurst Pump Station\02-BIM-CAD\Contract Set\Rev3\E3.3 - ELECTRICAL SINGLE LINE DIAGRAM.dwg Last Modified: Jan 31, 2020 - 3:15pm Plotted on: Jan 31, 2020 - 3:15pm By azammitti



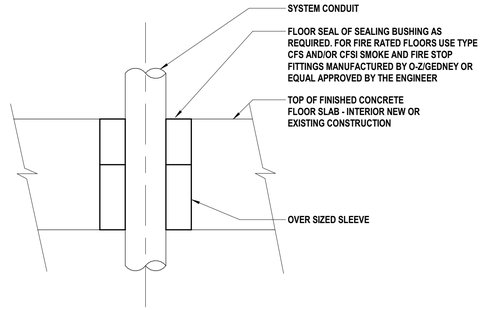
1 Typical Underground Conduit Termination
SCALE:NO SCALE



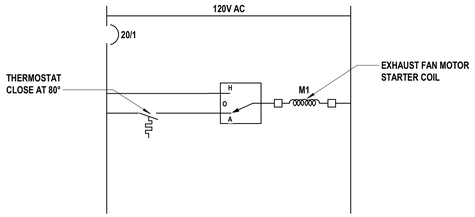
2 Typical Conduit Thru Concrete Wall
SCALE:NO SCALE



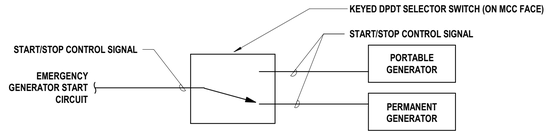
3 Typical Conduit Termination at Outdoor Equipment
SCALE:NO SCALE



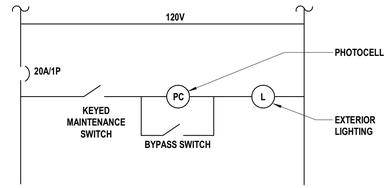
4 Typical Thru Floor Conduit
SCALE:NO SCALE



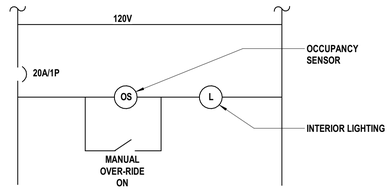
5 Single Exhaust Fan Control Diagram
SCALE:NO SCALE



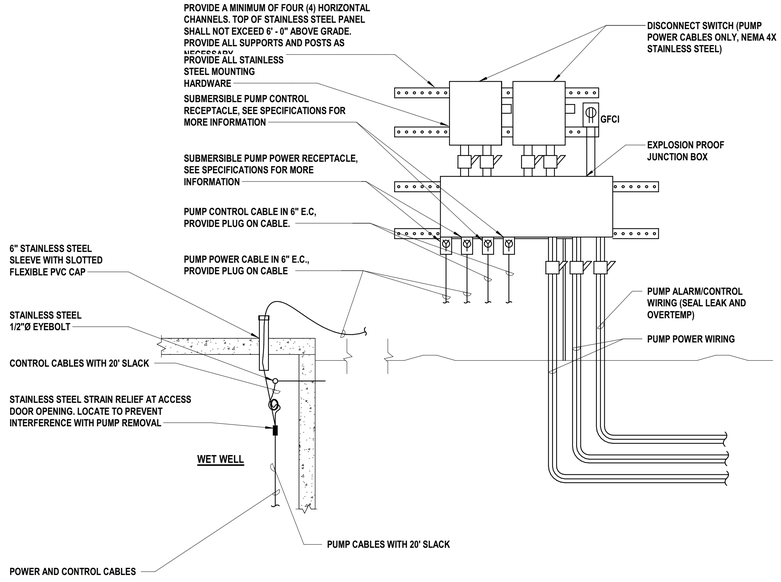
6 Partial Portable/Permanent Generator Control Circuit
SCALE: 1 1/2" = 1'-0"



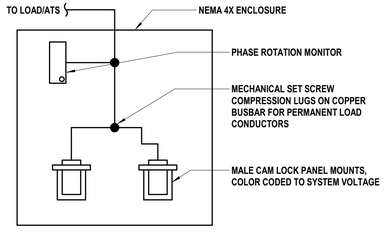
7 Exterior Lighting Wiring Diagram
SCALE:NO SCALE



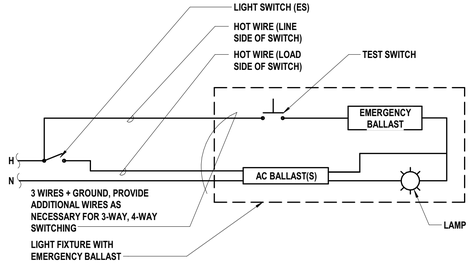
8 Interior Lighting Wiring Diagram
SCALE:NO SCALE



9 Wet Well Pump Cable and Float Cable Typical Installation Detail
SCALE:NO SCALE



10 Generator Connection Panel Schematic
SCALE: 12" = 1'-0"



11 Typical Light Fixture with Emergency Ballast Diagram
SCALE:NO SCALE

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SCH	AMZ		

PROJECT No:	DATE:	SCALE:
NCDP 1901	JANUARY 2020	AS SHOWN

CLIENT

Nassau County Department of Public Works

Five Towns Drainage Improvements: Cedarhurst Stormwater Pump Station

Nassau County, New York

CONTRACT

ALL CONTRACTS

STATUS

60% SUBMISSION

SHEET TITLE

ELECTRICAL DETAILS

DRAWING #

E4.0

SHEET # 17 OF 22

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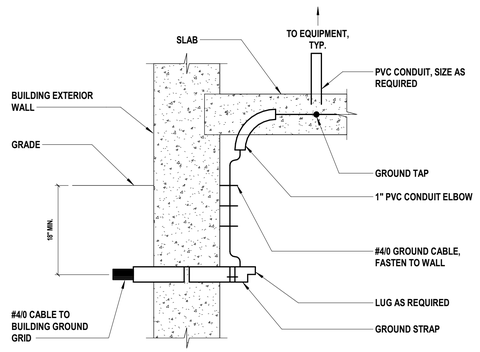
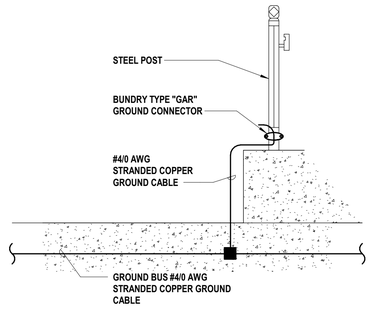
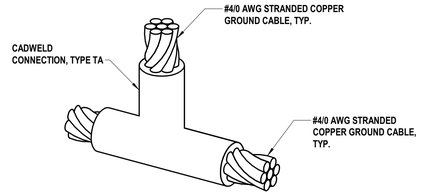


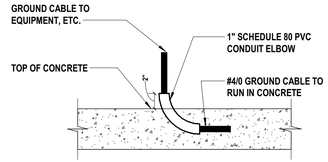
1 Typical Building Ground Cable Entry and Tap
SCALE:NO SCALE



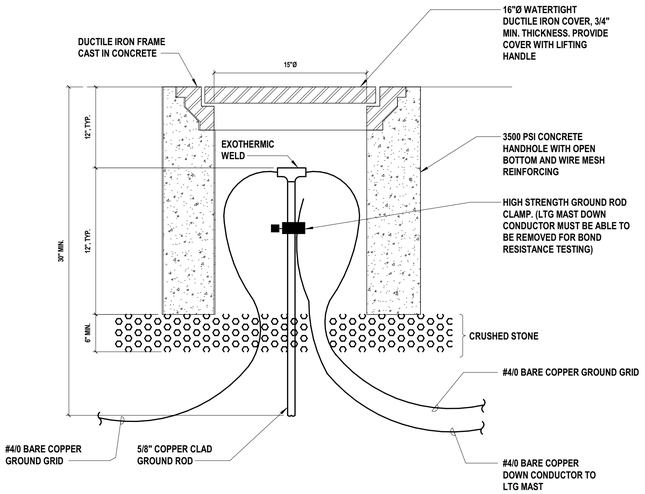
2 Grounding Detail for Handrail
SCALE:NO SCALE



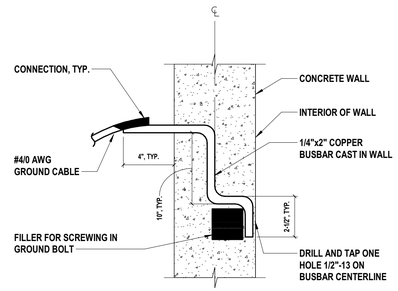
3 Typical Ground Bus Tap
SCALE:NO SCALE



4 Typical Ground Cable Termination Run in Slab
SCALE:NO SCALE



5 Ground Test Well
SCALE:NO SCALE



6 Ground Strap
SCALE:NO SCALE

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ELECTRICAL GROUNDING DETAILS

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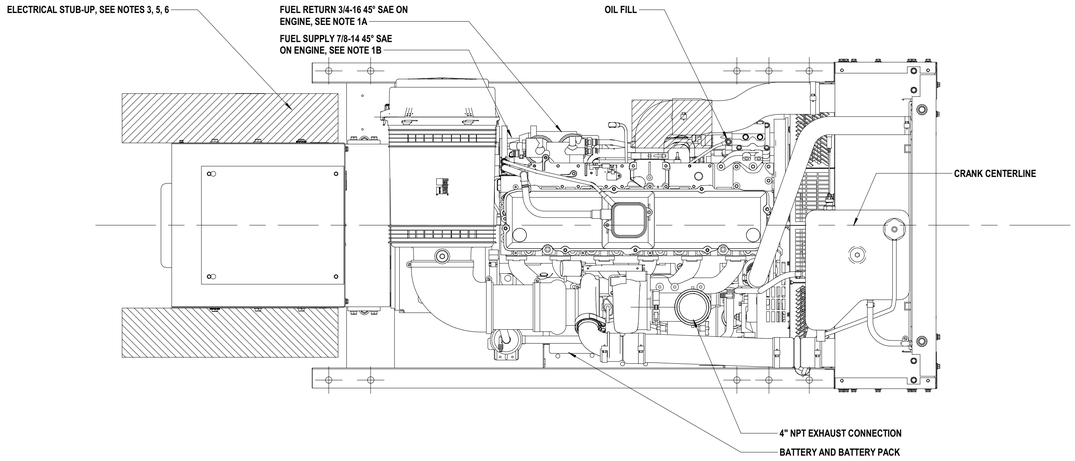
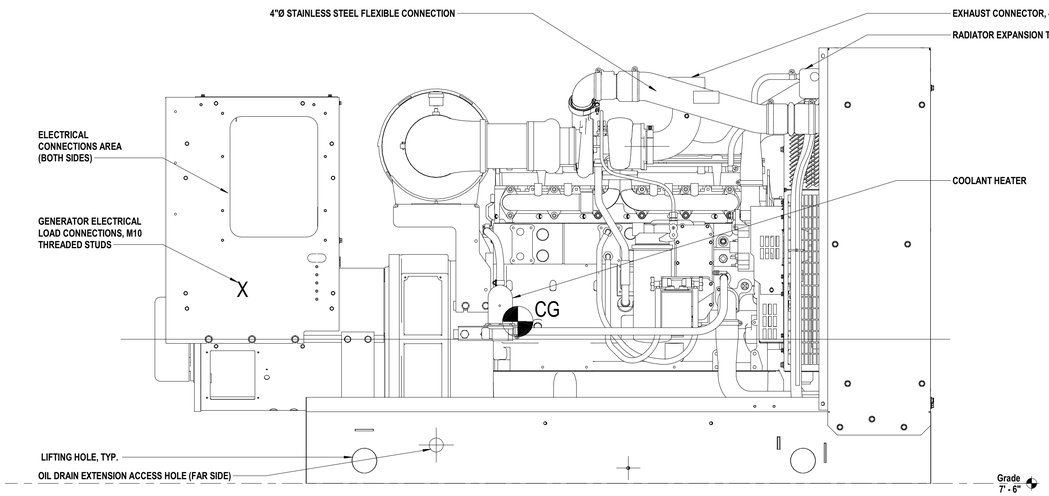


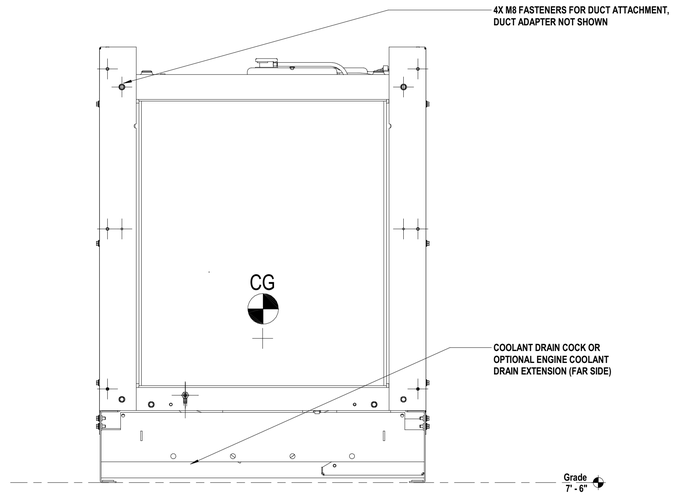
1 Generator Plan

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



2 Generator Elevation

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



3 Generator Section

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

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Nassau County, New York

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GENERATOR PLANS AND SECTION, AND DETAILS

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SHEET # 19 OF 22

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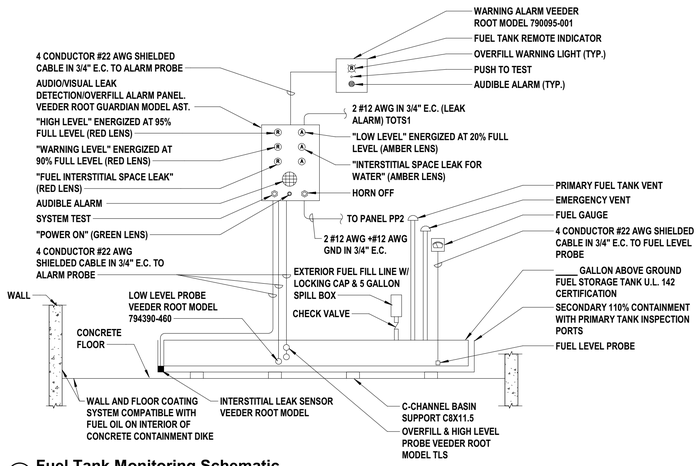
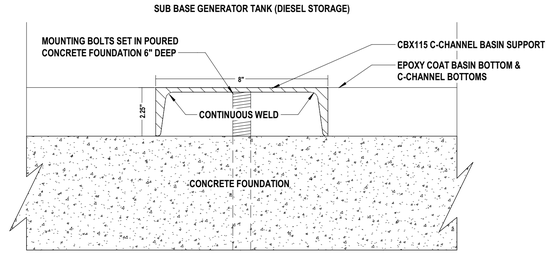
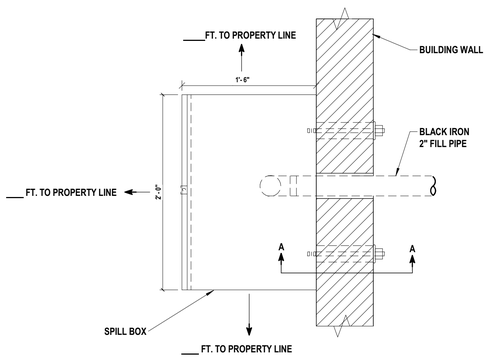


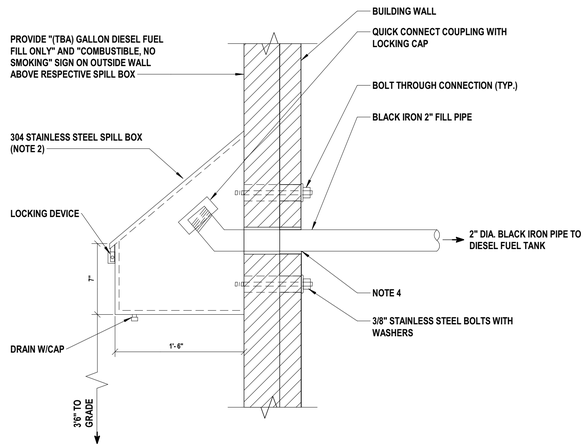
1 Fuel Tank Monitoring Schematic
SCALE: 12" = 1'-0"



2 Sub-Base Generator Tank Support Detail
SCALE: 12" = 1'-0"

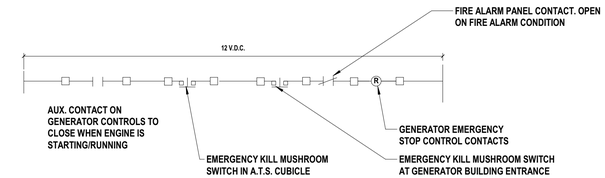


PLAN VIEW

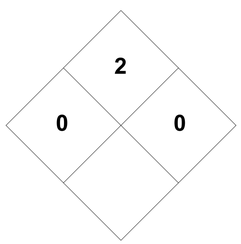


SECTION A-A

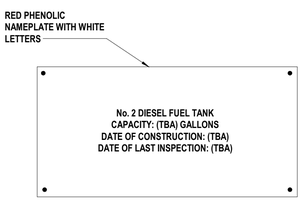
3 Locking Spill Box Detail
SCALE: 1 1/2" = 1'-0"



4 Emergency Shut Off Control Circuit
SCALE: 12" = 1'-0"

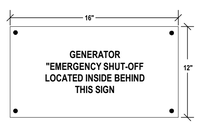


5 Right-To-Know Sign
SCALE: 1/4" = 1'-0"



6 Fuel Tank Name Plates
SCALE: 1" = 1'-0"

7 No Smoking Sign
SCALE: 12" = 1'-0"



8 Emergency Shut-Off Name Plate
SCALE: 12" = 1'-0"

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CONSULTANTS:

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SCH	AMZ		

PROJECT No:	DATE:	SCALE:
NCDP 1901	JANUARY 2020	AS SHOWN

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Nassau County Department of Public Works

Five Towns Drainage Improvements: Cedarhurst Stormwater Pump Station

Nassau County, New York

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SHEET TITLE

GENERATOR DETAILS

DRAWING #

E5.1

SHEET # 20 OF 22

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DISCONNECT SWITCH SCHEDULE

DISCONNECT SWITCH IDENTIFICATION	TYPE	ENCLOSURE	VOLTS	POLES	FRAME SIZE AMPS	FUSE RATING
DS1	UNFUSED	NEMA 4X SS	600	3		-
DS2	UNFUSED	NEMA 4X SS	600	3		-
DS3	UNFUSED	NEMA 4X SS	600	3		-

LIGHTING FIXTURE SCHEDULE

TYPE	MFG.	MODEL NO.	LAMPS			VOLTAGE	MOUNTING	REMARKS	MOUNTING HEIGHT
			NO. PER FIXTURE	TYPE	WATTS				
F1	COLUMBIA LIGHTING	LXEM4-40HL-DFA-EU	1	LED	52	120	SURFACE	-	CEILING/U.O.N.
F1A	COLUMBIA LIGHTING	LXEM4-40HL-DFA-EU-ELL14	1	LED	52	120	SURFACE	WITH EMERGENCY BALLAST AND BATTERY	CEILING/U.O.N.
F2	SPAULDING LIGHTING	TRP-30L-4K-035-3-1-BBU120	1	LED	34	120	WALL/SURFACE	WITH EMERGENCY BALLAST AND BATTERY	9' A.F.F.
EX	COMPASS	CER	1	LED	2	120	WALL	-	1' ABOVE DOOR FRAME
PC	INTERMATIC	K4121C	-	-	-	120	WALL	-	10' A.F.G.

TRANSFER SWITCH SCHEDULE

TRANSFER SWITCH IDENTIFICATION	TYPE	ENCLOSURE	VOLTS	PHASE	POLES	AMPS
TS1	AUTOMATIC	NEMA 1	460	3	4	400

GENERAL LIGHTING NOTES:

1. PROVIDE ALL REQUIRE WIRING NECESSARY BETWEEN SWITCHES, CONTROLLERS AND/OR OCCUPANCE SENSORS FOR COMPLETE LIGHTING CONTROL. WHERE 3-WAY SWITCHES ARE USED, PROVIDE ALL REQUIRED WIRING BETWEEN SWITCHES. WIRE SIZE SHALL EQUAL FEED SIZE.
2. FIXTURE INDICATED WITH CIRCUIT DESIGNATION SHALL BE CONNECTED TO LINE SIDE OF CIRCUIT.
3. FIXTURE INDICATED WITH LETTER DESIGNATIONS SHALL BE CONNECTED TO THE SWITCH, OCCUPANCY SENSOR, AND/OR POWER PACK WITH CORRESPONDING LETTER DESIGNATION.
4. PROVIDE AND INSTALL A DEDICATED NEUTRAL FOR EACH CIRCUIT, CONTRACTOR IS NOT PERMITTED TO USE COMMON NEUTRALS.
5. PROVIDE BOX AND ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S OCCUPANCY SENSORS AND/OR POWER PACKS.
6. VERIFY LOCATIONS AND MOUNTING HEIGHTS WITH ENGINEER IN FIELD.
7. PROVIDE ALL MOUNTING HARDWARE AS REQUIRED TO SECURELY MOUNT LIGHTING FIXTURES, COORDINATE MOUNTING HEIGHT WITH ENGINEER IN FIELD.
8. PROVIDE AN UNSWITCHED POWER FEED TO ALL EMERGENCY LIGHTS AND FIXTURES PROVIDED WITH EMERGENCY BATTERY BACKED UP LIGHTING TO THE CIRCUIT AS SHOWN.
9. PROVIDE SILICONE WATER PROOF SEALANT TO SEAL TOP, LEFT AND RIGHT EDGES OF EXTERIOR WALL MOUNTED LIGHT FIXTURES TO PREVENT MOISTURE FROM ACCUMULATING BEHIND THE FIXTURE. BOTTOM EDGE SHALL BE LEFT UNSEALED FOR DRAINAGE. COLOR OF SILICONE SHALL MATCH EITHER WALL COLOR OR FIXTURE COLOR.

H2M architects + engineers
538 Broad Hollow Road, 4th Floor East
Melville, NY 11747
631.756.8000 www.h2m.com

CONSULTANTS:

MARK	DATE	DESCRIPTION

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
SCH	AMZ		

PROJECT No:	DATE:	SCALE:
NCDP 1901	JANUARY 2020	AS SHOWN

CLIENT

Nassau County Department of Public Works

Five Towns Drainage Improvements: Cedarhurst Stormwater Pump Station

Nassau County, New York

CONTRACT

ALL CONTRACTS

STATUS

60% SUBMISSION

SHEET TITLE

ELECTRICAL SCHEDULES

DRAWING # **E6.0**

SHEET # 21 OF 22

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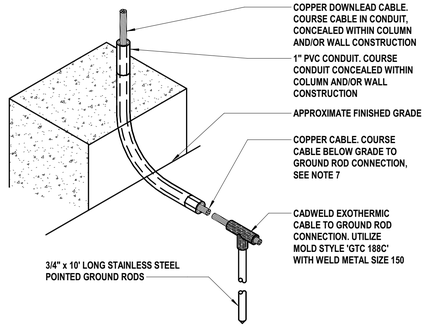
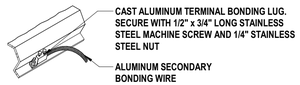
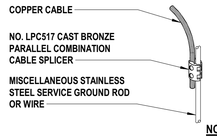


1 Concealed Downlead to Grounding Connection
SCALE: 1 1/2" = 1'-0"



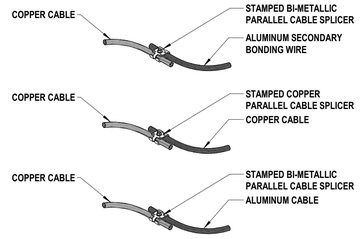
2 Typical Flashing or Gutter Bond
SCALE: 1" = 1'-0"



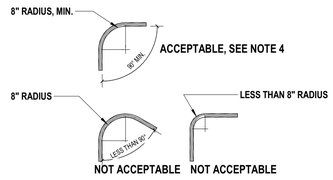
NOTE:

1. THIS DETAIL DEPICTS NO SPECIFIC AREA SHOWN ON THE LAYOUT. THIS DETAIL ILLUSTRATES TYPICAL AIR TERMINAL PLACEMENT FIR EITHER PARAPETS OR FLAT ROOFS.

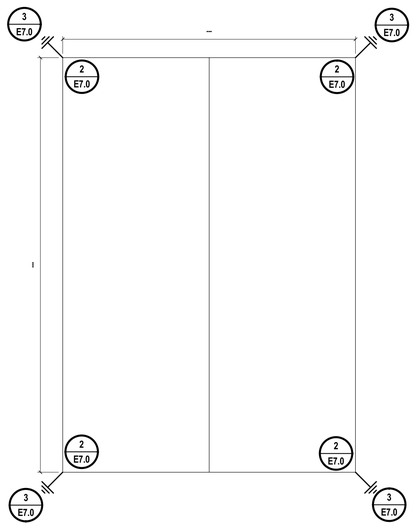
3 Typical Telephone and/or Electrical Service Bond
SCALE: 1" = 1'-0"



4 Typical Cable Splicers
SCALE: 1" = 1'-0"



5 Typical Cable Bend Requirements
SCALE: 1" = 1'-0"



6 Cedarhurst Stormwater Pump Station Lightning Protection Roof Plan
SCALE: 3/16" = 1'-0"

NOTE: ROOF DIMENSIONS TBD

GENERAL AND INSTALLATION NOTES:

1. ALL LIGHTING PROTECTION MATERIALS AND APPURTENANCES SHALL COMPLY IN WEIGHT, SIZE, AND COMPOSITION WITH UL96A AND NFPA-78 CODE REQUIREMENTS.
2. THE LIGHTING PROTECTION SYSTEM AS SHOWN ON DRAWING HAS BEEN DESIGNED IN ACCORDANCE WITH PROJECT SPECIFIC LIGHTING PROTECTION SYSTEM SPECIFICATION. THE INSTALLATION SHALL COMPLY WITH THE SPECIFICATION.
3. LOCATE AIR TERMINALS AS SHOWN. INSURE THAT ALL PERIMETER AIR TERMINALS ARE WITHIN 2' - 0" OF THE OUTSIDE BUILDING EDGE, OUTSIDE CORNERS AND RIDGE ENDS. MAXIMUM SPACING OF PERIMETER AIR TERMINALS MAY NOT EXCEED 20' - 0". PERIMETER AIR TERMINALS MUST PROTECT A MINIMUM OF 10" ABOVE THE OBJECT THEY PROTECT. (PERIMETER AIR TERMINALS PROJECTING 24" MAY BE SPACED AT 25' - 0" MAX.)
4. MAINTAIN HORIZONTAL OR DOWNWARD COURSING OF MAIN CONDUCTOR FREE FROM 'U' OR 'V' (DOWN AND UP) POCKETS. INSURING THAT CONDUCTOR BENDS ARE NOT LESS THAN 90" NOR LESS THAN 8" RADIUS.
5. ATTACH ALL EXPOSED ROOF, DOWN LEAD AND BONDING CABLES AT 3' - 0" ON CENTER MAXIMUM. TO INSURE COMPATIBILITY, THE ROOFING CONTRACTOR SHALL FURNISH ALL CABLE HOLDER ADHESIVE.
6. INSTALL GROUND ELECTRODES AS SHOWN. DRIVEN RODS SHALL PENETRATE THE EARTH AT LEAST 10' - 0". THE ELECTRODES SHALL BE A MINIMUM OF 1' - 0" BELOW FINISHED GRADE AND 2' - 0" FROM FOUNDATION WALL.
7. BOND LIGHTNING PROTECTION SYSTEM TO WATER SERVICE GROUND AS SHOWN AND AS REQUIRED BY CODES.
8. INTERCONNECT LIGHTING PROTECTION GROUND TO ELECTRIC, TELEPHONE AND OTHER BUILDING GROUND SYSTEMS.
9. BOND TO ALL METAL BODIES OF CONDUCTANCE WITHIN 6' - 0" OF THE MAIN LIGHTING CONDUCTOR SUCH AS VENTS METAL, HVAC UNITS, LADDERS, RAILINGS, PLATFORM FRAMES, METAL STACKS AND ANY OTHER LARGE METAL BODY WHOSE HEIGHT EXCEEDS THAT OF THE AIR TERMINALS IN USE, UNLESS PROTECTED BY HIGHER ROOF ELEVATIONS.
10. ALL MATERIALS SHALL BE MANUFACTURED BY ERICO AND LISTED BY UNDERWRITERS LABORATORIES FOR LIGHTNING PROTECTIONS.
11. THE INSTALLATION DETAILS AND MATERIALS SHOWN HEREON SHALL MEET THE REQUIREMENTS OF UNDERWRITERS' LABORATORIES (UL) STANDARD 96A.
12. AIR TERMINAL SHALL BE STAINLESS STEEL.
13. ACTUAL JOBSITE CONDITIONS MAY REQUIRE SLIGHT ALTERATIONS IN AIR TERMINAL, DOWN CONDUCTOR AND GROUND ROD LOCATIONS.
14. BARE COPPER MATERIALS SHALL NOT BE INSTALLED ON ALUMINUM SURFACES AND ALUMINUM MATERIALS SHALL NOT BE INSTALLED ON COPPER SURFACES.
15. ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED HORIZONTALLY AND VERTICALLY NOT MORE THAN 3' - 0" O.C., MAXIMUM SPACING.
16. METALLIC BODIES OF INDUCTANCE SITUATED WITHIN 6' - 0" OF A LIGHTNING CONDUCTOR OR ANOTHER BONDED METAL BODY SHALL BE INTERCONNECTED TO THE LIGHTNING CONDUCTOR SYSTEM, UNLESS INHERENTLY GROUNDED.
17. ALL ROOF TOP MECHANICAL (HVAC) EQUIPMENT SHALL BE BONDED AND PROTECTED WITHIN AIR TERMINALS AND CABLING AS REQUIRED.
18. DOWN CONDUCTORS SHALL BE RUN IN RIGID PVC CONDUIT AND SHALL BE BONDED TO THE TOP AND BOTTOM OF CONDUIT.
19. CONNECTIONS TO GROUND ROD SHALL BE MADE AT A POINT NOT LESS THAN 1' - 0" BELOW FINISHED GRADE AND 2' - 0" AWAY FROM FOUNDATION WALL.
20. INSTALLATION SHALL BEAR UL MASTER LABEL. MASTER LABEL 'C' CERTIFICATES TO BE SECURED BY SYSTEM INSTALLED AND PROVIDED TO BUILDING OWNER UPON COMPLETION PER UL 96A.
21. THE DESIGN LAYOUT AND INSTALLATION DETAILS SHOWN HEREON SHALL MEET THE REQUIREMENTS OF NATIONAL FIRE PROTECTION ASSOCIATION STANDARD #780 AND NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS REQUIREMENTS.
22. THE LIGHTING PROTECTION SYSTEM INSTALLED SHALL BE RESPONSIBLE FOR VERIFYING SITE CONDITIONS AS REQUIRED FOR BONDING ACCORDANCE WITH THE NATIONAL STANDARDS UL 96A, AND NFPA 780 AS REQUIRED FOR SYSTEM CERTIFICATION.

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Melville, NY 11747
631.756.8000 www.h2m.com

CONSULTANTS:

MARK	DATE	DESCRIPTION

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
SCH	AMZ		

PROJECT No:	DATE:	SCALE:
NCDP 1901	JANUARY 2020	AS SHOWN

CLIENT

Nassau County Department of Public Works

Five Towns Drainage Improvements: Cedarhurst Stormwater Pump Station

Nassau County, New York

CONTRACT

ALL CONTRACTS

STATUS

60% SUBMISSION

SHEET TITLE

LIGHTNING PROTECTION SYSTEM PLANS AND DETAILS

DRAWING #

E7.0

SHEET # 22 OF 22

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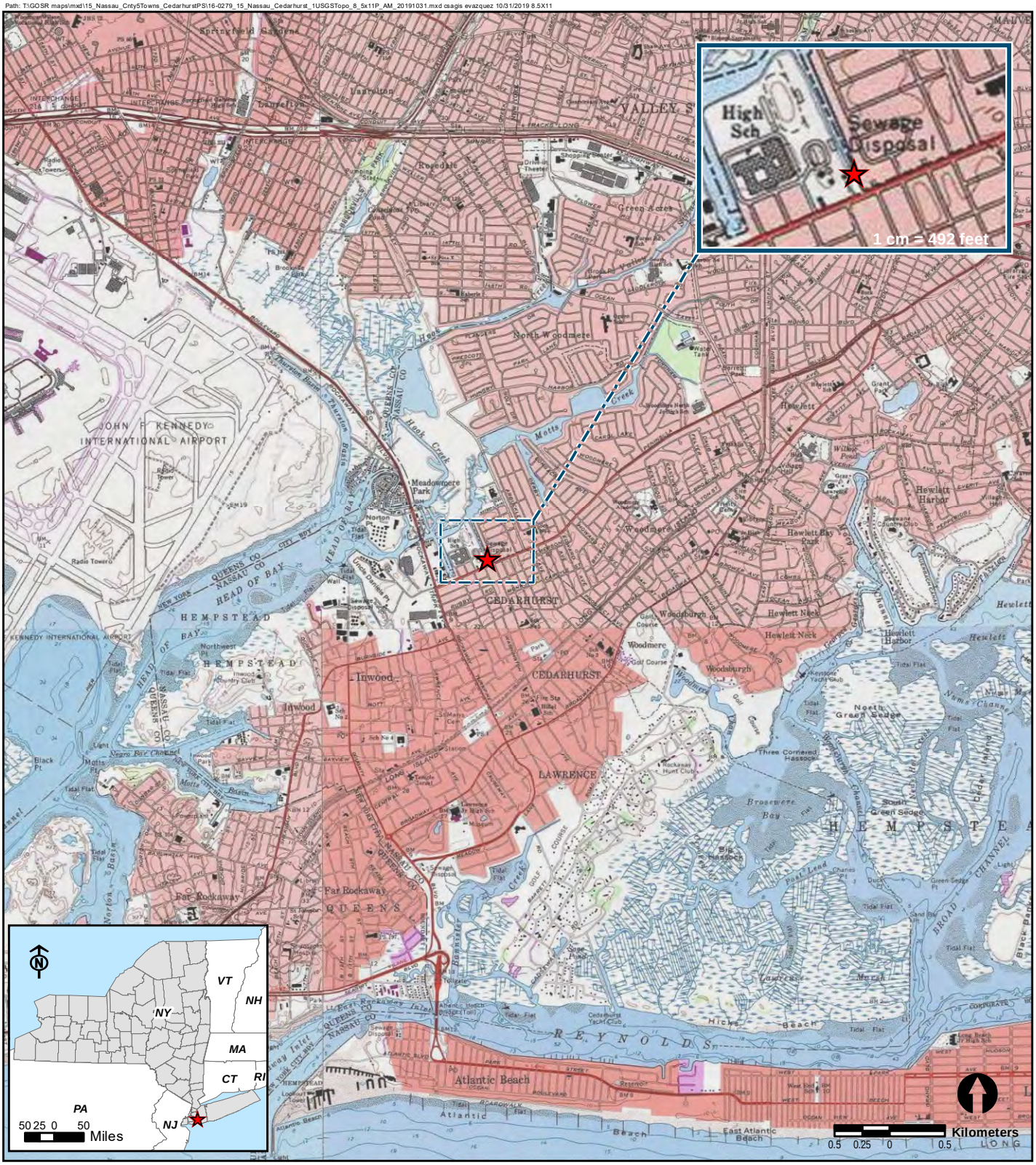
Appendix A: Figures



★ Proposed Pump Station

Figure 1

USGS Regional Location

Nassau County - Five Towns - Cedarhurst Pump Station Project

Nassau County, New York

Sources: USGS Topgraphic Map, Lynbrook Quadrangle Service Layer Credits: Copyright:© 2013 National Geographic Society, i-cubed. NYS Governor's Office of Storm Recovery (GOSR), URL: https://stormrecovery.ny.gov/community-regions/new-york-city.

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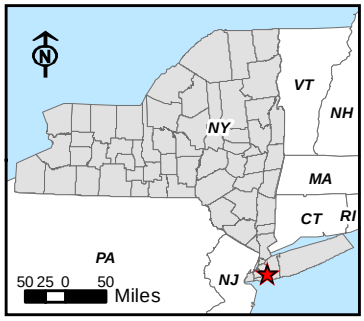

Proposed Pump Station

9.2 Acre Parcel Boundary

Figure 2

Project Area

Nassau County - Five Towns - Cedarhurst Pump Station Project

Nassau County, New York

Source: Service Layer Credits Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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★ Proposed Pump Station (Zone AE)

FEMA

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE AE Base Flood Elevations determined.

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Food Elevations determined.

OTHER FLOOD AREAS

ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

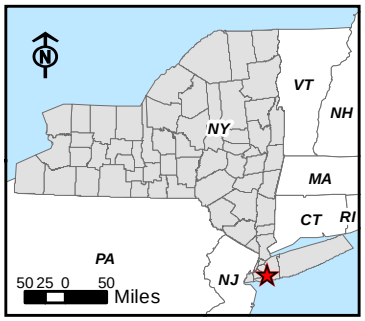
Source: FEMA Flood Insurance Rate Map, Map Numbers: 36059C0213G (September 11, 2009)

Figure 3

Flood Hazard

Nassau County - Five Towns - Cedarhurst Pump Station Project

Nassau County, New York



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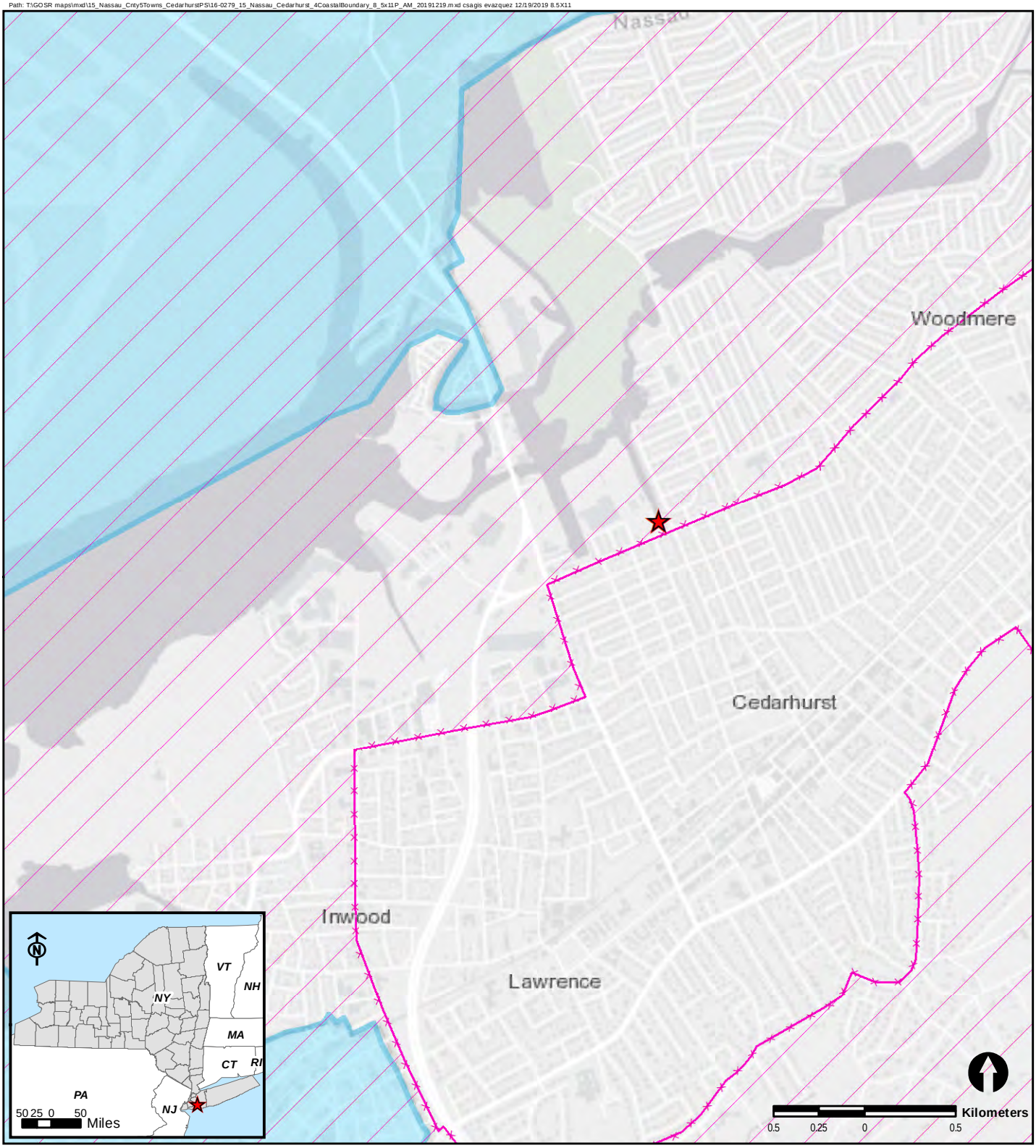

★ Proposed Pump Station

NYS Coastal Area Boundary[1]

NYC Waterfront Coastal Zone Boundary[2]

Figure 4

Coastal Boundary

Nassau County - Five Towns - Cedarhurst Pump Station Project

Nassau County, New York

Sources: (1) NYS Department of State, 2016; (2) New York City Department of City Planning, 2016.
Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap

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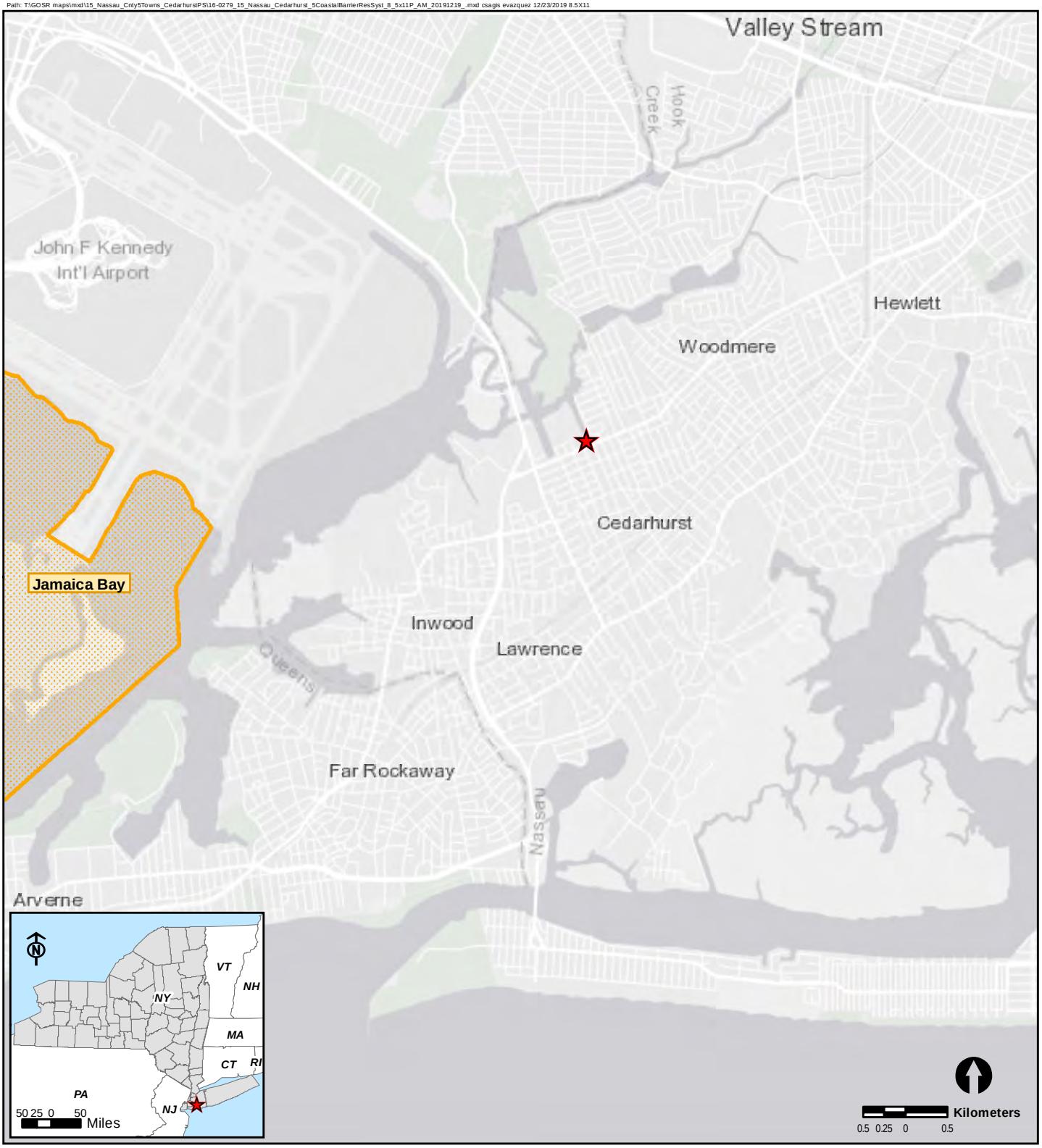

Proposed Pump Station

Coastal Barrier Resource System

Figure 5

Coastal Barrier Resource System

Nassau County - Five Towns - Cedarhurst Pump Station Project

Nassau County, New York

Source: U.S. Fish and Wildlife Service, John H. Chafee Coastal Barrier Resources System Approximate Polygons - Vector Digital Data Set (Polygon) - March 30, 2018. Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

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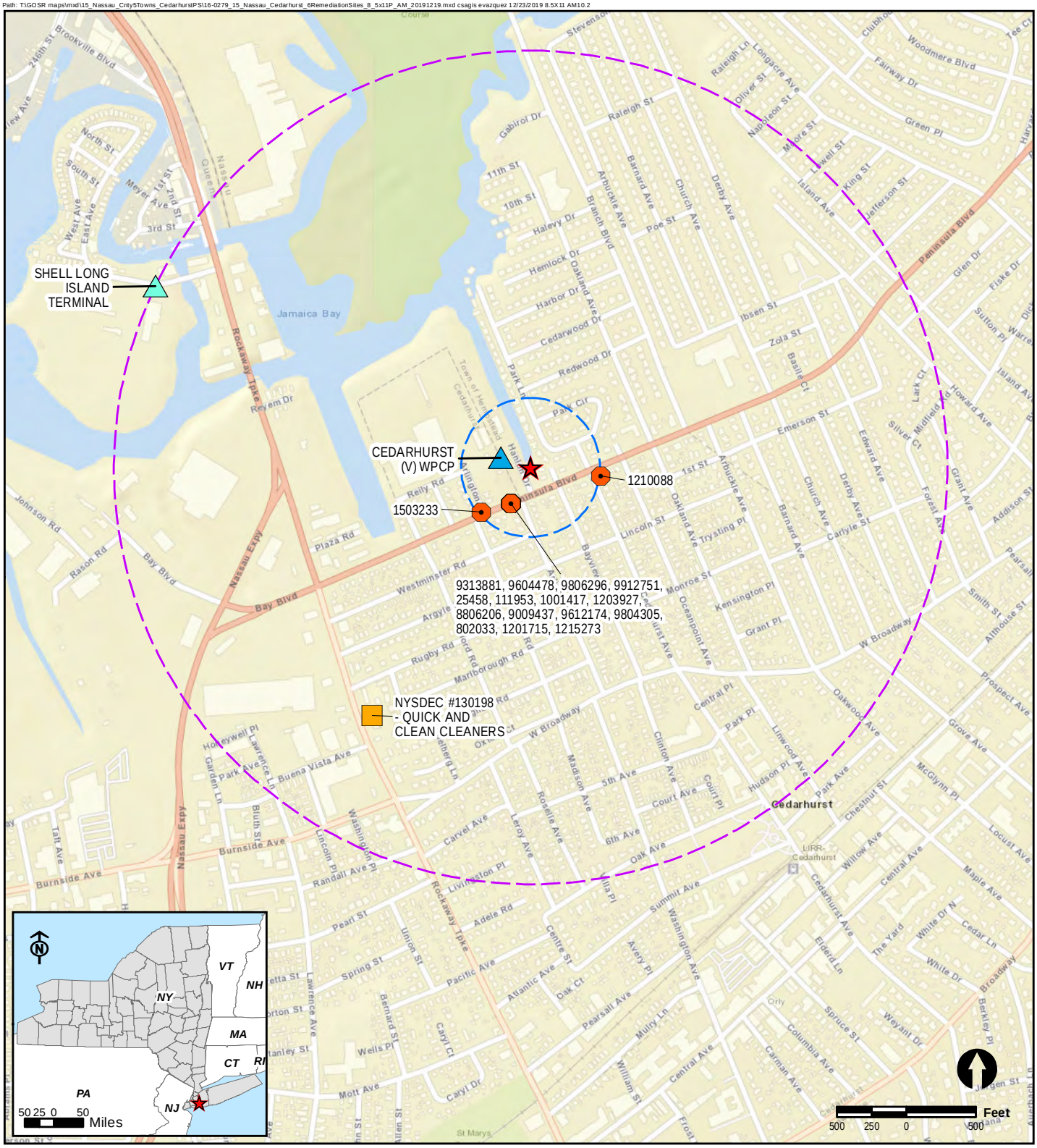

- Proposed Pump Station
- 500 foot radius
- 3,000 foot radius

NYSDEC Database

- Remediation (Superfund) Site
- Spills

Federal Database

- EPA Toxic Releases (TRI)
- EPA Water Discharges (NPDES)

***No federal superfund nor brownfields sites, nor bulk storage sites found within 500 ft radius.**

Source: New York State Department of Environmental Conservation (NYSDEC); NEPAssist (December, 2019). Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

Figure 6

Remediation Sites

Nassau County - Five Towns - Cedarhurst Pump Station Project

Nassau County, New York

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★ Proposed Pump Station

Sole Source Aquifers

Kings/Queens Counties (Brooklyn-Queens) Aquifer System SSA

Nassau/Suffolk Counties Long Island SSA

Source: U.S. EPA Office of Water, EPA National Sole Source Aquifers GIS Layer (2016). Service Layer Credits: 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 7

Sole Source Aquifers

Nassau County - Five Towns - Cedarhurst Pump Station Project

Nassau County, New York

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Figure 8

Wetlands

Nassau County - Five Towns - Cedarhurst Pump Station Project

Nassau County, New York

Sources: Tidal Wetlands - NYC and Long Island – 1974, New York State Department of Environmental Conservation (NYSDEC) November 1, 2005; US Fish and Wildlife Service (FWS) National Wetlands Inventory (NWI); USGS National Hydrography Dataset. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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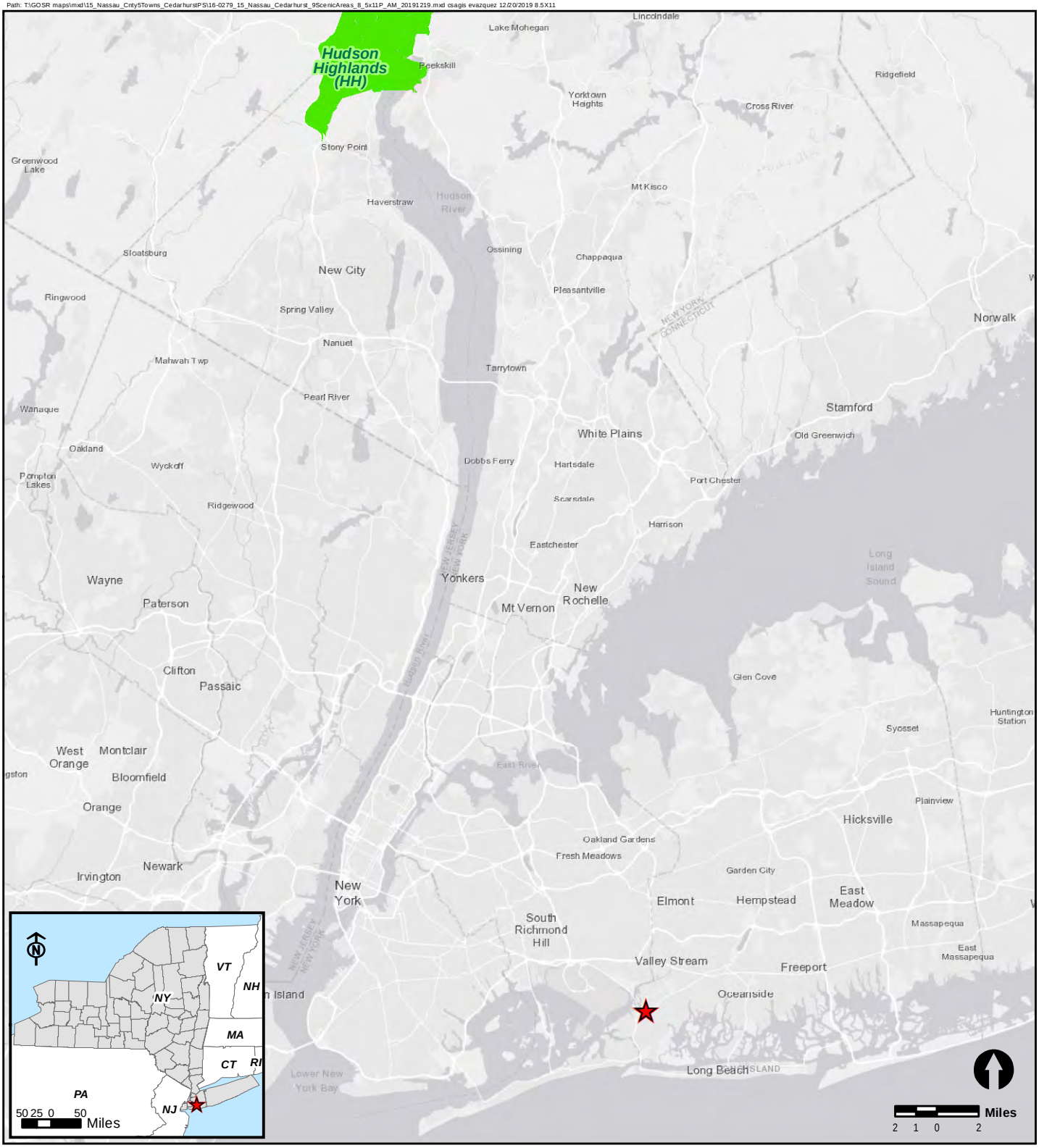

Proposed Pump Station

Scenic Area

Figure 9

Scenic Areas

Nassau County - Five Towns - Cedarhurst Pump Station Project

Nassau County, New York

Source: NYS Department of State, Office of Planning and Development (November 2014). Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

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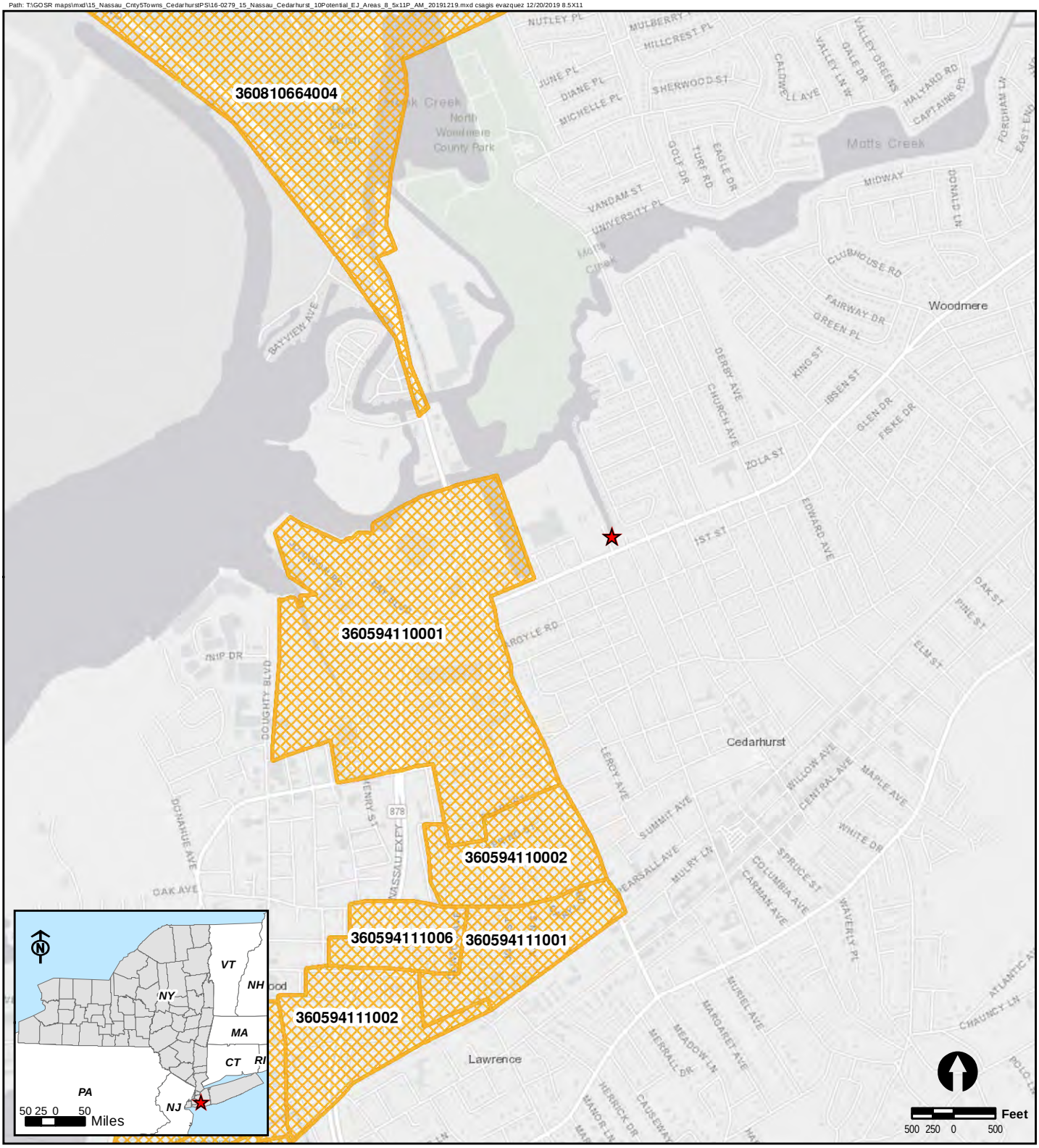

Figure 10

Potential Environmental Justice Areas

Nassau County - Five Towns - Cedarhurst Pump Station Project

Nassau County, New York

★ Proposed Pump Station

Potential Environmental Justice (EJ) Area

Source: New York State Department of Environmental Conservation, Environmental Justice Areas (August 8, 2014). Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

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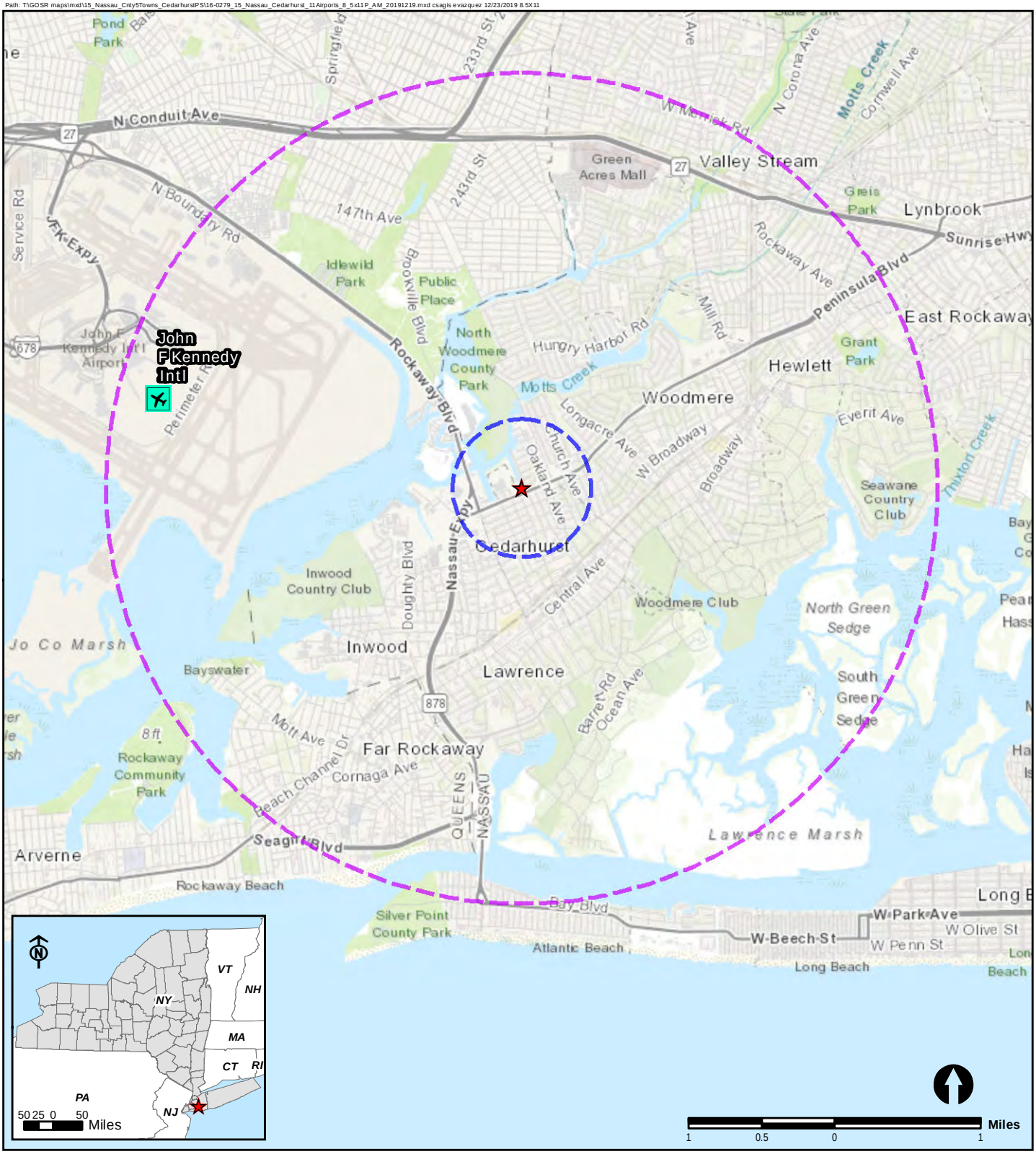

★ Proposed Pump Station

Airport

15,000 feet Radius

2,500 feet Radius

Figure 11

Airports within the Vicinity of the Proposed Project

Nassau County - Five Towns - Cedarhurst Pump Station Project

Nassau County, New York

Source: Federal Aviation Administration (FAA), National Transportation Atlas; ESRI. Service Layer Credits: 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, ©

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Appendix B: Coastal Zone Management Act

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

March 11, 2020

James P. McAllister
Senior Environmental Project Manager
Bureau of Environmental Review and Assessment
Governor's Office of Storm Recovery
500 Bi-County Boulevard, Suite 300
Farmingdale, New York 11735

Re: **F-2020-0086(FA)**
Governor's Office of Storm Recovery
Construction of a new stormwater pump station and associated appurtenances in the Five Towns Community.
Village of Cedarhurst, Nassau County
General Concurrence - No Objection to Funding

Dear Mr. McAllister,

The Department of State (DOS) received the information you submitted regarding the above proposed federal financial assistance on 3/3/2020 and 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-2020-0086(FA).

Sincerely,

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

MM/dc

Governor's Office of
Storm Recovery

ANDREW M. CUOMO
Governor

March 2, 2020

Via email: Matthew.Maraglio@dos.ny.gov

Mr. Matt Maraglio
Supervisor, Consistency Review Unit Division of Coastal Resources
New York State Department of State
One Commerce Plaza
99 Washington Avenue Albany, New York 12231-0001

Re: Coastal Zone Management Act Consistency Review
CDBG-DR Funding Application
Cedarhurst Stormwater Pump Station Project
Village of Cedarhurst, Nassau County, NY

Dear Mr. Maraglio:

The New York State Governor's Office of Storm Recovery ("GOSR") received a funding application for the proposed "**Cedarhurst Stormwater Pump Station Project**" located in the Village of Cedarhurst, Nassau County, New York (**Attachment 1 - Project Location Maps**). The Proposed Project was developed to mitigate flooding and stormwater back-up in the Village of Cedarhurst and the Five Towns Community.

The Proposed Project involves construction of the new stormwater pump station, with associated electric, water, pumps, motor control center, storm drainage pipe, juncture chamber, storm drainage manholes, heating and ventilation and standby power (generator). The Proposed Project would also include the installation of two stormwater quality improvement devices, a check valve and a fence around the subject property.

The Village of Cedarhurst-owned subject parcel, situated east of Hanlon Drive on the north side of Peninsula Boulevard, is a portion of a larger Village owned property, indicated on the Land and Tax Map of Nassau County as Section 39, Block A, Lot 530, which contains the Village's Highway Department yard with associated structures and vehicle storage. The new Cedarhurst pump station would be constructed on a .04-acre portion of the overall 9.20-acre Village-owned property; which currently consists of a vacant lot with grass coverage, a few trees, a drain with a cast iron cover and concrete pad with pit and access hatch – part of the existing Nassau County drainage system, and an electric utility pole which will be relocated. The electric service for the proposed stormwater plant will be placed underground.

Based on the preferred design, schedule and funding, the Cedarhurst Stormwater Pump Station would consist of one to three pumps providing greater than 50 cubic foot per second (CFS) pumping capacity and associated mechanical equipment which would be housed within a newly constructed pump station building. Following construction, the proposed pump station will be turned over to the Village of Cedarhurst for operation and maintenance. The pump station will be connected to two existing 24-inch diameter storm drains and one existing 42-inch diameter storm drain and would be designed to provide flood mitigation during severe weather events. The existing flap gate would be removed at the current channel discharge point and the existing pipe penetration would be sealed. A new diesel fueled standby power generator will be provided to operate the pump station upon loss of power.

The project area is located within the boundary of the New York State Coastal Zone. GOSR is acting as the Responsible Entity in accordance with 24 CFR Part 58 – Environmental Review Procedures for Entities Assuming HUD Environmental Responsibilities. Pursuant to the Coastal Zone Management Act, GOSR has prepared the attached Federal Consistency Assessment Form and a Summary of Compliance with Applicable DOS Policies to certify that the proposed project is consistent with New York State's Coastal Management Program.

The purpose of this letter is to provide the New York State Department of State (DOS) notice of the Proposed Action and to request a consistency review to confirm that the proposed activities will be in compliance with general consistency concurrence criteria. GOSR is requesting a response letter from your office that can be included as an attachment to our environmental documentation to confirm that coordination with the New York State Department of State has been completed, and general consistency concurrence criteria will be met. If you have any questions, please feel free to contact me via telephone number (631) 465-9677 or email: James.McAllister@stormrecovery.ny.gov . Thank you for your consideration and cooperation.

Sincerely,

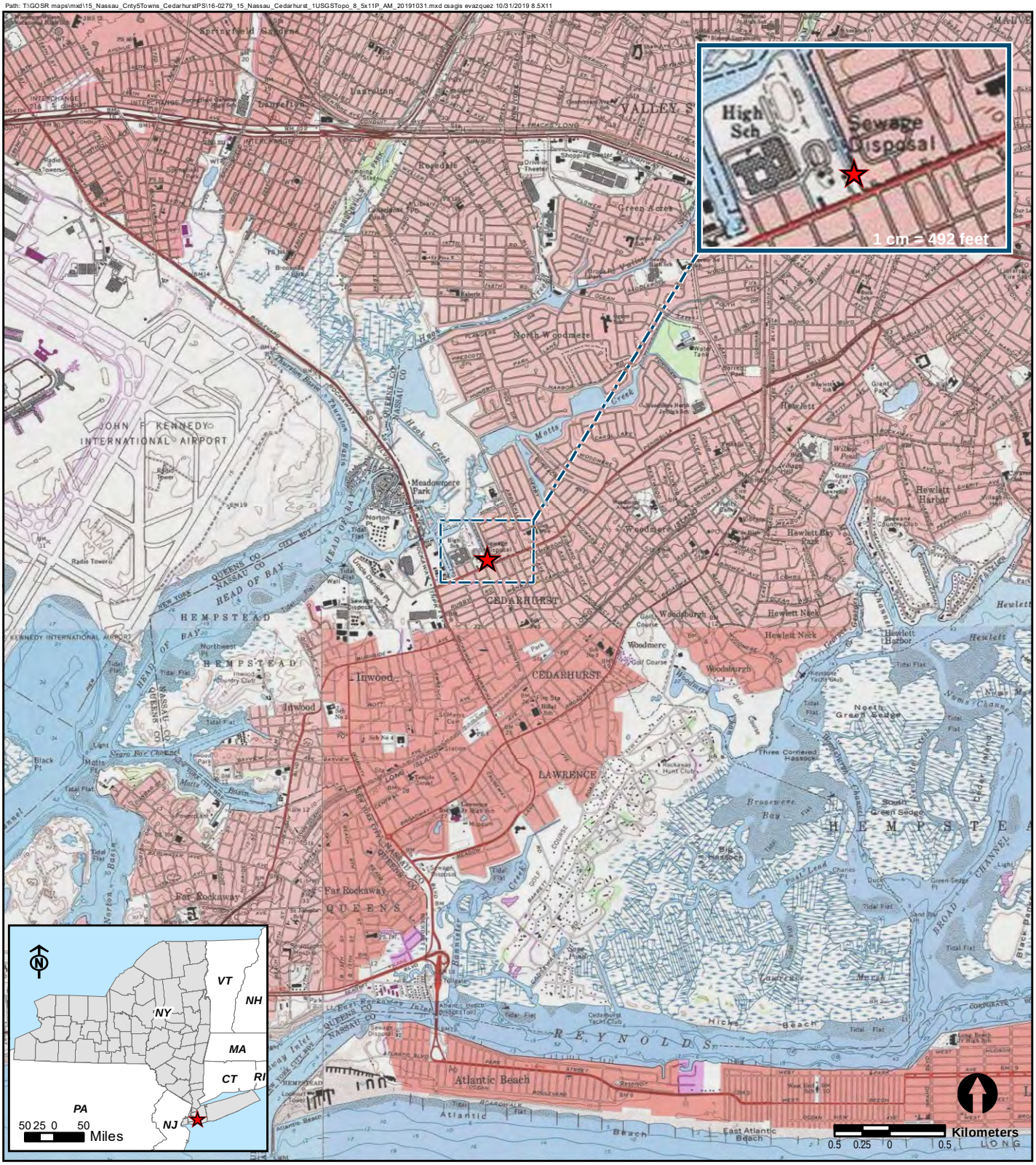
James P. McAllister
Bureau of Environmental Review and Assessment

CC: Denise Caldwell

Enclosures:
Project Location Figures
Consistency Assessment Form and Policy Review

Attachment 1: Project Location Maps

Coastal Zone Management Act Consistency Review



★ Proposed Pump Station

Figure 1

USGS Regional Location

Nassau County - Five Towns - Cedarhurst Pump Station Project

Nassau County, New York

Sources: USGS Topgraphic Map, Lynbrook Quadrangle Service Layer Credits: Copyright:© 2013 National Geographic Society, i-cubed. NYS Governor's Office of Storm Recovery (GOSR), URL: https://stormrecovery.ny.gov/community-regions/new-york-city.

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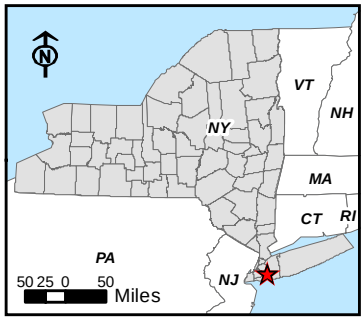

Proposed Pump Station

9.2 Acre Parcel Boundary

Figure 2

Project Area

Nassau County - Five Towns - Cedarhurst Pump Station Project

Nassau County, New York

Source: Service Layer Credits Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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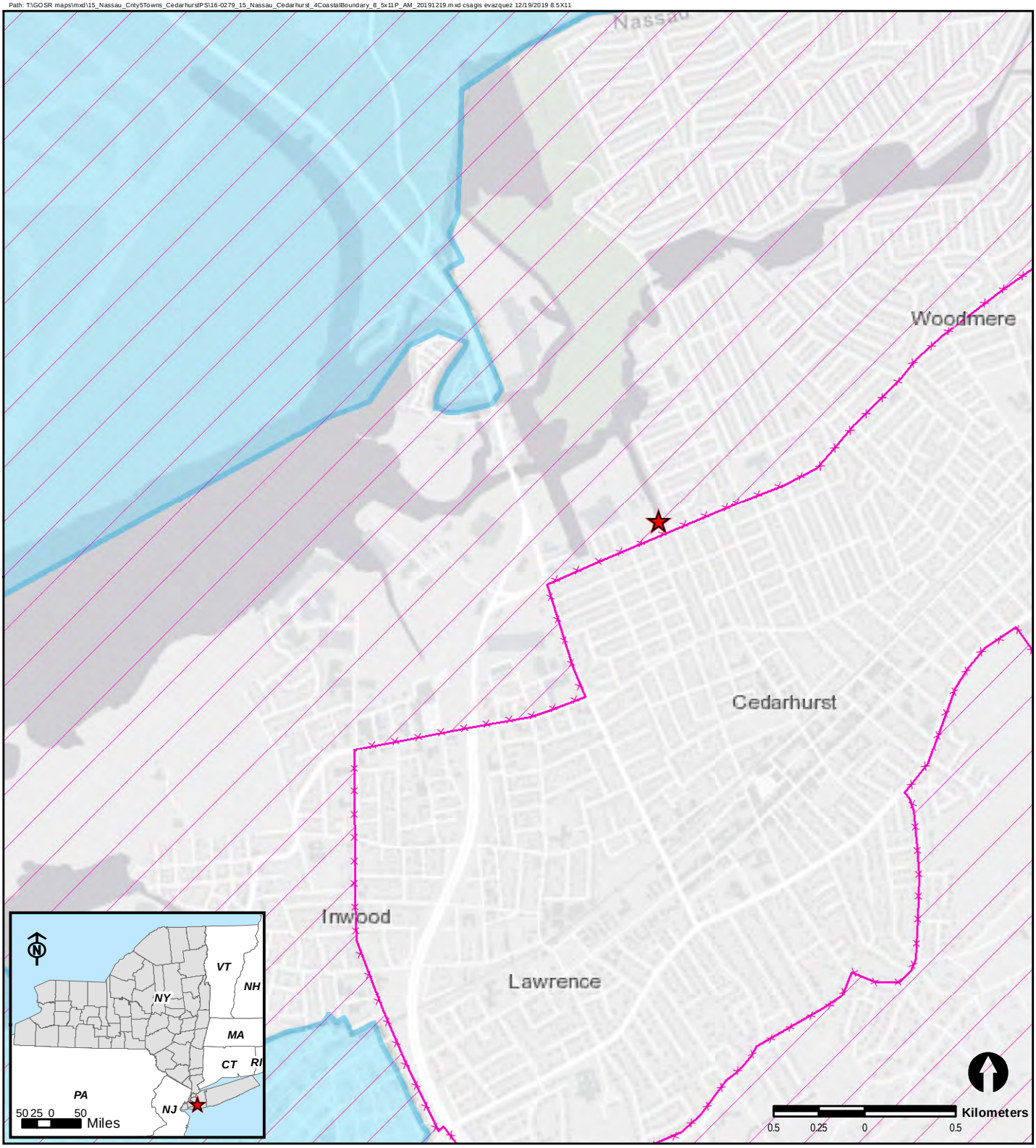

Proposed Pump Station

NYS Coastal Area Boundary[1]

NYC Waterfront Coastal Zone Boundary[2]

Figure 3

Coastal Boundary

Nassau County - Five Towns - Cedarhurst Pump Station Project

Nassau County, New York

Sources: (1) NYS Department of State, 2016; (2) New York City Department of City Planning, 2016.
Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap

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Attachment 2: Federal Consistency Assessment Form

Coastal Zone Management Act Consistency Review

NEW YORK STATE DEPARTMENT OF STATE
COASTAL MANAGEMENT PROGRAM

Federal Consistency Assessment Form

An applicant, seeking a permit, license, waiver, certification or similar type of approval from a federal agency which is subject to the New York State Coastal Management Program (CMP), shall complete this assessment form for any proposed activity that will occur within and/or directly affect the State's Coastal Area. This form is intended to assist an applicant in certifying that the proposed activity is consistent with New York State's CMP as required by U.S. Department of Commerce regulations (15 CFR 930.57). It should be completed at the time when the federal application is prepared. The Department of State will use the completed form and accompanying information in its review of the applicant's certification of consistency.

A. **APPLICANT** (please print)

1. Name: Sean Sallie, AICP, Deputy Commissioner Nassau County
2. Address: 1194 Prospect Avenue
3. Telephone: Area Code (516) 571-9342

B. **PROPOSED ACTIVITY:**

1. Brief description of activity:

Construction of a new stormwater pump station and associated appurtenances on a 0.04 acre parcel owned by the Village of Cedarhurst.

2. Purpose of activity:

To facilitate drainage of stormwater which would help reduce flooding during storm events.

3. Location of activity:

Nassau	Cedarhurst	Vacant land
County	City, Town, or Village	Street or Site Description

4. Type of federal permit/license required: _____

5. Federal application number, if known: _____

6. If a state permit/license was issued or is required for the proposed activity, identify the state agency and provide the application or permit number, if known:

NYSDEC Tidal Wetlands Permit (Adjacent Area)

C. **COASTAL ASSESSMENT** Check either "YES" or "NO" for each of these questions. The numbers following each question refer to the policies described in the CMP document (see footnote on page 2) which may be affected by the proposed activity.

1. Will the proposed activity result in any of the following:	YES	NO
a. Large physical change to a site within the coastal area which will require the preparation of an environmental impact statement? (11, 22, 25, 32, 37, 38, 41, 43)		✔
b. Physical alteration of more than two acres of land along the shoreline, land under water or coastal waters? (2, 11, 12, 20, 28, 35, 44)		✔
c. Revitalization/redevelopment of a deteriorated or underutilized waterfront site? (1)		✔
d. Reduction of existing or potential public access to or along coastal waters? (19, 20)		✔
e. Adverse effect upon the commercial or recreational use of coastal fish resources? (9,10)		✔
f. Siting of a facility essential to the exploration, development and production of energy resources in coastal waters or on the Outer Continental Shelf? (29)		✔
g. Siting of a facility essential to the generation or transmission of energy? (27)		✔
h. Mining, excavation, or dredging activities, or the placement of dredged or fill material in coastal waters? (15, 35)		✔
i. Discharge of toxics, hazardous substances or other pollutants into coastal waters? (8, 15, 35)		✔
j. Draining of stormwater runoff or sewer overflows into coastal waters? (33)	✔	
k. Transport, storage, treatment, or disposal of solid wastes or hazardous materials? (36, 39)		✔
l. Adverse effect upon land or water uses within the State's small harbors? (4)		✔

2. Will the proposed activity affect or be located in, on, or adjacent to any of the following:	YES	NO
a. State designated freshwater or tidal wetland? (44)	✔	
b. Federally designated flood and/or state designated erosion hazard area? (11, 12, 17)	✔	
c. State designated significant fish and/or wildlife habitat? (7)	✔	
d. State designated significant scenic resource or area? (24)		✔
e. State designated important agricultural lands? (26)		✔
f. Beach, dune or Barrier Island? (12)		✔
g. Major ports of Albany, Buffalo, Ogdensburg, Oswego or New York? (3)		✔
h. State, county, or local park? (19, 20)		✔
i. Historic resource listed on the National or State Register of Historic Places? (23)		✔

3. Will the proposed activity require any of the following:	YES	NO
a. Waterfront site? (2, 21, 22)		✔
b. Provision of new public services or infrastructure in undeveloped or sparsely populated sections of the coastal area? (5)		✔
c. Construction or reconstruction of a flood or erosion control structure? (13, 14, 16)	✔	
d. State water quality permit or certification? (30, 38, 40)	✔	
e. State air quality permit or certification? (41, 43)		✔

4. Will the proposed activity occur within and/or affect an area covered by a State-approved local waterfront revitalization program, or State-approved regional coastal management program? (see policies in program document*)	YES	NO
		✔

D. **ADDITIONAL STEPS**

1. If all of the questions in Section C are answered "NO", then the applicant or agency shall complete Section E and submit the documentation required by Section F.

2. If any of the questions in Section C are answered "YES", then the applicant or agent is advised to consult the CMP, or where appropriate, the local waterfront revitalization program document*. The proposed activity must be analyzed in more detail with respect to the applicable state or local coastal policies. On a separate page(s), the applicant or agent shall: (a) identify, by their policy numbers, which coastal policies are affected by the activity, (b) briefly assess the effects of the activity upon the policy; and, (c) state how the activity is consistent with each policy. Following the completion of this written assessment, the applicant or agency shall complete Section E and submit the documentation required by Section F.

E. **CERTIFICATION**

The applicant or agent must certify that the proposed activity is consistent with the State's CMP or the approved local waterfront revitalization program, as appropriate. If this certification cannot be made, the proposed activity shall not be undertaken. If this certification can be made, complete this Section.

"The proposed activity complies with New York State's approved Coastal Management Program, or with the applicable approved local waterfront revitalization program, and will be conducted in a manner consistent with such program."

Applicant/Agent's Name: James McAllister

Address: 500 Bi-County Boulevard, Suite 300, Farmingdale, NY 11735

Telephone: Area Code ( ) (631) 465-9677

Applicant/Agent's Signature:  Date: February 12, 2020

F. **SUBMISSION REQUIREMENTS**

1. The applicant or agent shall submit the following documents to the **New York State Department of State, Office of Planning and Development, Attn: Consistency Review Unit, One Commerce Plaza-Suite 1010, 99 Washington Avenue, Albany, New York 12231.**

a. Copy of original signed form.
b. Copy of the completed federal agency application.
c. Other available information which would support the certification of consistency.

2. The applicant or agent shall also submit a copy of this completed form along with his/her application to the federal agency.

3. If there are any questions regarding the submission of this form, contact the Department of State at (518) 474-6000.

*These state and local documents are available for inspection at the offices of many federal agencies, Department of environmental Conservation and Department of State regional offices, and the appropriate regional and county planning agencies. Local program documents are also available for inspection at the offices of the appropriate local government.

Attachment 3: Consistency Assessment

Coastal Zone Management Act Consistency Review

NYDOS Consistency Assessment
Summary of Compliance with Applicable Policies

This document is the addendum to the Federal Consistency Assessment Form (FCAF) for the Cedarhurst Stormwater Pump Station Project. The Proposed Project is being designed and would be constructed in a manner that is consistent with the applicable New York State Department of State (NYSDOS) Coastal Management Program (CMP) State Coastal policies. The policies that are relevant to the Project are listed below and accompanied by a brief description of the manner in which the Proposed Project is consistent with them.

I. PROJECT DECRIPTION

The Proposed Project involves construction of the new stormwater pump station, with associated electric, water, pumps, motor control center, storm drainage pipe, juncture chamber, storm drainage manholes, heating and ventilation and standby power (generator). The Proposed Project would also include the installation of two stormwater quality improvement devices, a check valve and a fence around the subject property.

The Village of Cedarhurst-owned subject parcel, situated east of Hanlon Drive on the north side of Peninsula Boulevard, is a portion of a larger Village owned property, indicated on the Land and Tax Map of Nassau County as Section 39, Block A, Lot 530, which contains the Village's Highway Department yard with associated structures and vehicle storage. The new Cedarhurst pump station would be constructed on a .04-acre portion of the overall 9.20-acre Village-owned property; which currently consists of a vacant lot with grass coverage, a few trees, a drain with a cast iron cover and concrete pad with pit and access hatch – part of the existing Nassau County drainage system, and an electric utility pole which will be relocated. The electric service for the proposed stormwater plant will be placed underground.

Based on the preferred design, schedule and funding, the Cedarhurst Stormwater Pump Station would consist of one to three pumps providing greater than 50 cubic foot per second (CFS) pumping capacity and associated mechanical equipment which would be housed within a newly constructed pump station building. Following construction, the proposed pump station will be turned over to the Village of Cedarhurst for operation and maintenance. The pump station will be connected to two existing 24-inch diameter storm drains and one existing 42-inch diameter storm drain and would be designed to provide flood mitigation during severe weather events. The existing flap gate would be removed at the current channel discharge point and the existing pipe penetration would be sealed. A new diesel fueled standby power generator will be provided to operate the pump station upon loss of power.

II. PURPOSE OF ACTIVITY

The storm surge created by Hurricane Sandy caused significant stormwater back-up in the Village of Cedarhurst and the Five Towns Community. This storm surge carried from six to 11 feet of water and in the Village of Cedarhurst, approximately 300 homes were flooded. The purpose of the Proposed Project is to control stormwater flow during and after extreme weather events by creating new infrastructure to remove flood water from affected roadways and out of the community. Currently, roadway flooding impedes or blocks vehicular and pedestrian travel. This is particularly troublesome on Peninsula Boulevard, as Peninsula Boulevard is a main artery and major evacuation route for the Five Towns Community. The Proposed Project was identified by the community during the CDBG-DR Community Reconstruction planning process and then derived from the CDBG_DR funded Five Towns Drainage Study, November 30,2017 which was prepared for Nassau County by AECOM and Cameron Engineering. The study recommended a minimum 50 (CFS) pump to effectively remove water from the affected areas. The

Proposed Project is needed to reduce risk of chronic flooding associated with extreme high tides and storm events in residential and commercial areas, thus improving resiliency for these areas in the face of sea level rise and increasing frequency and intensity of extreme weather events. In addition, flooding periodically extends on to surrounding residential properties, causing damage disrupting ingress and egress areas. The Proposed Project would also provide for better access for emergency vehicles during and after flooding events.

III. CONSISTENCY WITH APPLICABLE CZMA POLICIES

Policy 7 - Significant coastal fish and wildlife habitats will be protected, preserved, and, where practical, restored so as to maintain their viability as habitats.

Response: The project area consists of a previously disturbed, vacant field with scattered trees, which provides very limited habitat value. Although the Proposed Project is located near the Jamaica Bay Critical Environmental Area (CEA), proposed project activities would not impact sensitive habitats associated with the Jamaica bay CEA. Consultation with the USFWS and NYNHP regarding the Proposed Project and its location has been initiated and Nassau County will comply with all required permit conditions. Therefore, the Proposed Project is consistent with this policy.

Policy 11 - Buildings and other structures will be sited in the coastal area so as to minimize damage to property and the endangering of human lives caused by flooding and erosion.

Response: The purpose of the Proposed Project is to more efficiently remove stormwater from the project area in an effort to protect commercial and residential properties which have been historically damaged by area flooding. This would be accomplished by increasing the drainage capacity of the existing system. Therefore, the project is consistent with Policy 11.

Policy 12 - Activities or development in the coastal area will be undertaken so as to minimize damage to natural resources and property from flooding and erosion by protecting natural protective features including beaches, dunes, barrier islands and bluffs.

Response: The Proposed Project would not occur on a beach, dune, barrier island or bluff, therefore, no impacts to these coastal barrier resources will result from the Proposed Project. The Proposed Project is consistent with this policy.

Policy 13 - The construction or reconstruction of erosion protection structures shall be undertaken only if they have reasonable probability of controlling erosion for at least thirty years as demonstrated in design and construction standards and/or assured maintenance or replacement programs.

Response: Project plans were designed to ensure that the pump station and associated equiptment would serve to prevent flooding for at least 30 years. Therefore, the Proposed Project is consistent with this policy.

Policy 14 - Activities and development including the construction or reconstruction of erosion protection structures, shall be undertaken so that there will be no measurable increase in erosion or flooding at the site of such activities or development, or at other locations.

Response: The existing surface water management system, which receives run-off from adjacent properties and paved roadways (Peninsula Boulevard), is out-dated, deteriorated and is insufficient for anticipated climate conditions. The Proposed Project would upgrade the existing stormwater management system to prevent flooding. The Proposed Project would help protect water quality in nearby Jamaica Bay while decreasing future flood risk from storms. Therefore, the Proposed Project is consistent with this policy.

Policy 16 - Public funds shall only be used for erosion protective structures where necessary to protect human life, and new development which requires a location within or adjacent to an erosion hazard area to be able to function, or existing development; and only where the public benefits outweigh the long term monetary and other costs including the potential for increasing erosion and adverse effects on natural protective features.

Response: The Proposed Project involves the construction of a new stormwater pump station within the Village of Cedarhurst. The Proposed Project would represent a major improvement in coastal resiliency by enhancing the existing drainage system to better handle major storm events. The public benefits far outweigh the long term monetary and other costs associated with the project. Therefore, the Proposed Project is consistent with this policy.

Policy 17 - Non-structural measures to minimize damage to natural resources and property from flooding and erosion shall be used whenever possible.

Response: Construction of a new stormwater pump station is the most efficient method to move stormwater from frequently flooded areas of Cedarhurst. Project plans were developed to ensure that the proposed pump station would be constructed to comply with 100-year floodplain regulations including to the appropriate Base Flood Elevation. The Proposed Project is consistent with this policy.

Policy 30 - Municipal, industrial, and commercial discharge of pollutants, including but not limited to, toxic and hazardous substances, into coastal waters will conform to State and National water quality standards.

Response: The Proposed Project does not involve any industrial or commercial discharges to surface or groundwater. The project is therefore consistent with the policy.

Policy 33 - Best management practices will be used to ensure the control of stormwater runoff and combined sewer overflows draining into coastal waters.

Response: The Proposed Project includes improvements to an existing, outdated stormwater management system and does not involve sanitary sewer systems. The Proposed Project includes the installation of a new stormwater pump station which would be connected to an existing outfall. The new system would catch sediment and debris which would otherwise enter the adjacent canal, eventually reaching Jamaica Bay. The Proposed Project would also facilitate drainage from Peninsula Boulevard which is subject to frequent flooding. Best Management Practices will be sued to ensure that sedimentation cause by construction would not adversely affect the adjacent canal. The project will adhere to any mitigation measures identified by the regulatory agencies during the permitting process. Therefore, the Proposed Project is consistent with this policy.

Policy 38 - The quality and quantity of surface water and groundwater supplies will be conserved and protected, particularly where such waters constitute the primary or sole source of water supply.

Response: The Proposed Project will have no impact on the quality and quantity of surface water and groundwater supplies. Therefore, the project is consistent with the policy.

Policy 40 - Effluent discharged from major steam electric generating and industrial facilities into coastal waters will not be unduly injurious to fish and wildlife and shall conform to state water quality standards.

Response: The Proposed Project is consistent with the policy since the project does not involve power generation and there are no electric generating land uses occurring nearby which could potentially generate harmful effluent runoff into area waterways.

Policy 44 - Preserve and protect tidal and freshwater wetlands and preserve the benefits derived from these areas.

Response: Although the Proposed Project is situated within a mapped NYSDEC Adjacent Area, no wetlands would be impacted by the Proposed Project. All required permits will be obtained prior to project construction. There will be no negative impacts to tidal wetlands as a result of the Proposed Project. Therefore, the project is consistent with this policy.

IV. ASSESSMENT

The assessment provided herein found that the proposed project would be consistent with all applicable policies. Therefore, the proposed project would not result in any significant adverse impacts related to the CZMA.

Appendix C: U.S. Fish and Wildlife and NYSDEC Correspondence

Re: [EXTERNAL] Cedarhurst Stormwater Infrastructure Improvements - Stormwater Pump Station Project; Cedarhurst, Nassau County, N.Y.P

Papa, Steve <steve_papa@fws.gov>

Mon 4/6/2020 3:03 PM

To: McAllister, James (STORMRECOVERY) <James.McAllister@stormrecovery.ny.gov>
Cc: Boyd, Cristy L. <clboyd@csagroup.com>

This email service as the Service's acknowledgement of your no effect determination for the above referenced project. No further consultation is necessary.

Thanks,

From: McAllister, James (STORMRECOVERY) <James.McAllister@stormrecovery.ny.gov>
Sent: Friday, April 3, 2020 12:22 PM
To: Papa, Steve <steve_papa@fws.gov>
Cc: clboyd@csagroup.com <clboyd@csagroup.com>
Subject: [EXTERNAL] Cedarhurst Stormwater Infrastructure Improvements - Stormwater Pump Station Project; Cedarhurst, Nassau County, N.Y.P

Hello Mr. Papa,
Attached please find our consultation request and No Effect Determination for improvements proposed by Nassau County Department of Public Works to the existing stormwater drainage system in the Village of Cedarhurst. Thank you in advance for your review. We appreciate your assistance and I am available should you have any questions.
Regards,
James

James P. McAllister
Senior Environmental Project Manager
Bureau of Environmental Review and Assessment
Governor's Office of Storm Recovery
500 Bi-County Boulevard, Suite 300, Farmingdale, NY 11735
O: (631) 465-9677 I C: (646)256-9485 I F: (212) 480-2393 I
James.McAllister@stormrecovery.ny.gov
www.stormrecovery.ny.gov

Governor's Office of
Storm Recovery

ANDREW M. CUOMO
Governor

April 6, 2020 via email: FW5ES_NYFO@fws.gov
steve_papa@fws.gov

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

Re: Section 7 Project Review - No Effect Determination
Five Towns – Cedarhurst Pump Station Project
Village of Cedarhurst, Nassau County, NY
iPAC Consultation Code: 05E1LI00-2020-SLI-0299

Dear Mr. Papa:

The Town of Hempstead is proposing to implement storm water drainage improvements within the Village of Cedarhurst in Nassau County. The existing drainage system in the area suffers from several deficiencies which reduce capacity, leading to coastal flooding from tidal surge and rain events. To prevent flooding, Nassau County is proposing construction of a new stormwater pump station - Cedarhurst Stormwater Pump Station - with associated electric, water, pumps, motor control center, storm drainage pipe, juncture chamber, storm drainage manholes, heating and ventilation and standby power (generator). The Proposed Project will also include the installation of two stormwater quality improvement devices, a check valve and a fence around the subject property. The Village of Cedarhurst-owned subject parcel, situated east of Hanlon Drive on the north side of Peninsula Boulevard, is a portion of a larger Village owned property, indicated on the Land and Tax Map of Nassau County as Section 39, Block A, Lot 530, which contains the Village's Highway Department yard with associated structures and vehicle storage (see **Attachment A, Site Location Maps**). The new Cedarhurst pump station would be constructed on a .04-acre portion of the overall 9.20-acre Village-owned property; which currently consists of a vacant lot with grass coverage, a few trees, a drain with a cast iron cover and concrete pad with pit and access hatch – part of the existing Nassau County drainage system, and an electric utility pole which will be relocated. The electric service for the proposed stormwater plant will be placed underground.

Based on the preferred design, schedule and funding, the Cedarhurst Stormwater Pump Station would consist of three pumps providing greater than 50 cubic foot per second (CFS) pumping capacity and associated mechanical equipment which would be housed within a newly constructed pump station building. Following construction, the proposed pump station will be turned over to the Village of

Cedarhurst for operation and maintenance. The pump station will be connected to two existing 24-inch diameter storm drains and one existing 42-inch diameter storm drain and would be designed to provide flood mitigation during severe weather events. The existing flap gate would be removed at the current channel discharge point and the existing pipe penetration would be sealed. A new diesel fueled standby power generator will be provided to operate the pump station upon loss of power. Fuel for the generator would be stored in a 1,200-gallon, double walled, above ground storage tank within the generator base.

Compliance with Endangered Species Act

Review of the USFWS IPaC database system (accessed February 12, 2020) indicates three avian species with the potential to occur near the project vicinity: piping plover *(Charadrius melodus),* red knot *(Calidris canutus rufa),* and roseate tern *(Sterna dougallii dougallii).* In addition, the FWS indicates the potential presence of two plant species: seabeach amaranth *(Amaranthus pumilus* and sandplain gerardia *(Agalinis acuta).* One mammalian species: Northern long eared bat (*Myotis septentrionalis*) may also occur in the project vicinity. There are no critical habitats for these or any other species within the project area. The USFWS Official Species List is included as **Attachment B**.

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

Common/Latin Name	Critical Habitat	Federal Status	Potential for Occurrence on Project Site
Piping plover *(Charadrius melodus)*	Designated, but not inclusive of project site	Threatened	None, as this species typically nests on shell and sandy substrates; forage on beaches, dunes and tidal wrack in areas with limited human disturbance. The proposed project includes the installation of a new pump station which would be constructed on a 0.04-acre portion of Village-owned property which currently consists of maintained turf. There is no suitable piping plover habitat present in the project area and the proposed action would have no effect on this species.
Red knot *(Calidris canutus rufa)*	none	Threatened	None, typical habitat is beaches and mudflats. Forages on small clams, mussels, snails and other invertebrates. No such habitat occurs within the project area and the proposed action would have no effect on this species.
Roseate tern *(Sterna dougallii dougallii)*	none	Endangered	None, requires salt marsh islands and beaches with sparse vegetation for breeding and foraging. No such habitat occurs within the project area and the proposed action would have no effect on this species.

Seabeach amaranth *(Amaranthus pumilus)*	none	Threatened	None, inhabits dunes on barrier island beaches and usually grows on a nearly pure sand substrate. No such habitat occurs within the project area and the proposed action would have no effect on this species.
Sandplain gerardia (Agalinis acuta)	none	Endangered	None, as the sandplain gerardia occurs in dry, sandy soils and in sandy plains, remnant grasslands, shrublands, and along roadsides and railroads. No such habitat occurs within the project area and the proposed action would have no effect on this species.
Northern long eared bat (*Myotis septentrionalis*)	none	Threatened	None, since the northern long-eared bat is considered a forest-dependent species that is sensitive to fragmentation and requires forested/wooded habitats for both foraging and breeding. This species roosts underneath tree bark, in cavities, and in the crevices of dead and live trees. NLEB may occur in urbanized areas, near large, forested parks or other areas with abundant tree cover, however, there is no such habitat in proximity to the project area, therefore, the proposed action would have no effect on this species.

Source: Official Species List, USFWS iPAC System (accessed February 2, 2020)

ESA -Analysis and Determination of Effects

The USFWS IPaC Resource List identified the NLEB as a Federal threatened species potentially affected by activities at the project locations. According to the NYS Resource Map for Bat Occurrences, no NLEB hibernaculum has been documented within five miles of the project site. There are currently no known maternity roost trees or hibernacula known to be occupied by NLEB within the vicinity of the project location according to geospatial information provided by the USFWS. No caves or mines occur near the project site. Summer habitat of the NLEB generally includes upland and riparian forest within heavily forested landscapes. The NLEB is sensitive to fragmentation and urbanization and requires interior forest for both foraging and breeding. Roost trees are usually in intact forest, close to the core and away from large clearings, roads, or other sharp edges. The main impact of concern for bats would be the removal of potential roost trees, however, there are only a few scattered trees on the property and the proposed project would only disturb 0.04-acres.

Migratory Bird Treaty Act (MBTA)

The Proposed Project would occur within the Atlantic Flyway. However, because the Proposed Project would occur within an area routinely subject to human disturbance, GOSR has determined that the Proposed Action would have no significant adverse impact to migratory birds or their habitat. Therefore, it is anticipated that migrating birds would not be impacted by the Proposed Project.

NYSDEC and NMFS Coordination

A request for detailed records regarding rare species and significant natural communities was sent to the New York State Natural Heritage Program (NYSNHP). The NYSDEC responded that they have no records of rare or state-listed animals or plants, or significant natural communities at the project site and that given the nature and location of the proposed work, impacts to significant natural communities are not expected **(Attachment C)**.

Project implementation would be conditioned upon applicable federal and state permits and would be constructed in accordance with federal and state permit conditions. The Proposed Project would not jeopardize the continued existence of ESA species or destroy or adversely modify their critical habitat. GOSR is submitting the above information as notification of its "No Effect" determination and requests acknowledgement from USFWS that they have received this determination that the proposed project would have No Effect on endangered/threatened species under USFWS jurisdiction. If the USFWS does not respond within 30 days from submittal of this letter, then GOSR may presume that its determination is informed by the best available information and its project responsibilities under Section 7 of the ESA have been fulfilled. If you have any questions, please feel free to contact me via telephone number (631) 465-9677 or email: James.McAllister@stormrecovery.ny.gov. Thank you for your consideration and cooperation.

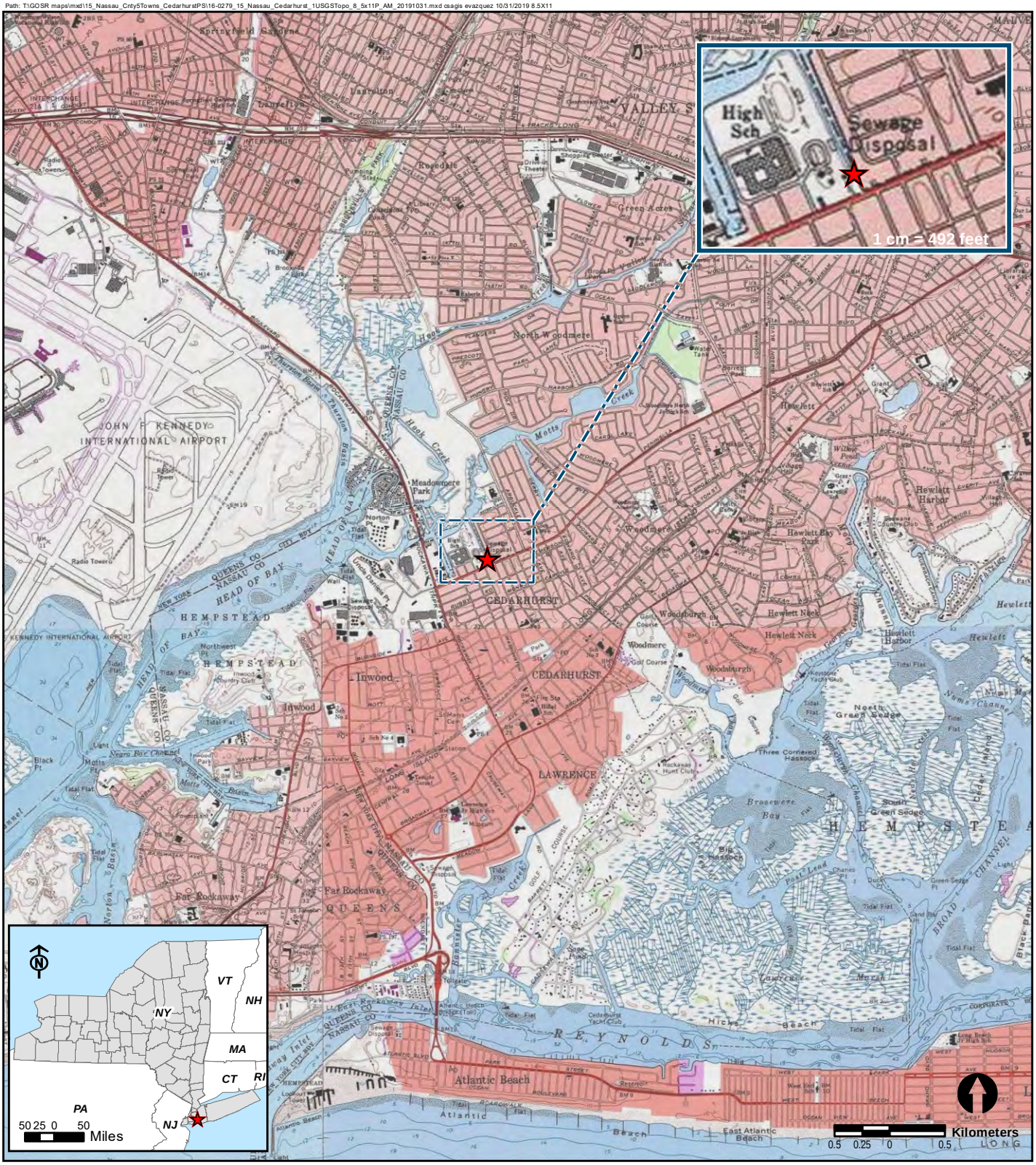
Sincerely,

James P. McAllister
Bureau of Environmental Review and Assessment

Enclosures
Attachment A: Project Location Maps
Attachment B: USFWS Official Species Lists and Trust Resources Reports
Attachment C: NYSDEC Correspondence

Attachment A: Project Location Maps

Village of Cedarhurst Pump Station Project



★ Proposed Pump Station

Figure 1

USGS Regional Location

Nassau County - Five Towns - Cedarhurst Pump Station Project

Nassau County, New York

Sources: USGS Topgraphic Map, Lynbrook Quadrangle Service Layer Credits: Copyright:© 2013 National Geographic Society, i-cubed. NYS Governor's Office of Storm Recovery (GOSR), URL: https://stormrecovery.ny.gov/community-regions/new-york-city.

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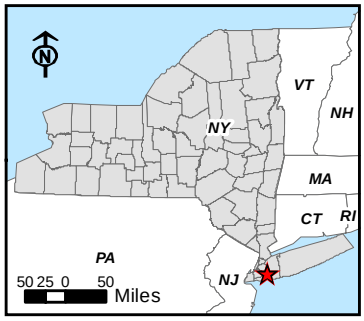
Path: T:\GOSR maps\mxd\15_Nassau_Cnty5Towns_CedarhurstPS\16-0279_15_Nassau_Cedarhurst_2SiteLocation_8_5x11P_AM_Rev20200212.mxd csagis evazquez 2/12/2020 8.5X11



Proposed Pump Station

9.2 Acre Parcel Boundary

Figure 2

Project Area

Nassau County - Five Towns - Cedarhurst Pump Station Project

Nassau County, New York

Source: Service Layer Credits Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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Attachment B: Official Species Lists and Trust Resources Report

Village of Cedarhurst Pump Station Project

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Long Island Ecological Services Field Office
340 Smith Road
Shirley, NY 11967-2258
Phone: (631) 286-0485 Fax: (631) 286-4003

In Reply Refer To: February 12, 2020
Consultation Code: 05E1LI00-2020-SLI-0299
Event Code: 05E1LI00-2020-E-00693
Project Name: Proposed Cedarhurst Stormwater Pump Station

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Long Island Ecological Services Field Office
340 Smith Road
Shirley, NY 11967-2258
(631) 286-0485

Project Summary

Consultation Code: 05E1LI00-2020-SLI-0299

Event Code: 05E1LI00-2020-E-00693

Project Name: Proposed Cedarhurst Stormwater Pump Station

Project Type: Federal Grant / Loan Related

Project Description: Construction of a new Stormwater Pump Station on Village owned property.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/40.630536080231366N73.73164129521639W

Counties: Nassau, NY

Endangered Species Act Species

There is a total of 6 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. 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.

Mammals

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

Birds

NAME	STATUS
Piping Plover *Charadrius melodus* Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered. There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6039	Threatened
Red Knot *Calidris canutus rufa* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1864	Threatened
Roseate Tern *Sterna dougallii dougallii* Population: Northeast U.S. nesting population No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/2083	Endangered

Flowering Plants

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

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

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.

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
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

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.

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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.

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* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/8935	Breeds Apr 15 to Aug 31
Bald Eagle *Haliaeetus leucocephalus* 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	Breeds Oct 15 to Aug 31
Black Skimmer *Rynchops niger* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/5234	Breeds May 20 to Sep 15
Bobolink *Dolichonyx oryzivorus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Jul 31
Canada Warbler *Cardellina canadensis* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Aug 10
Clapper Rail *Rallus crepitans* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Apr 10 to Oct 31
Dunlin *Calidris alpina arcticola* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds elsewhere

Golden Eagle *Aquila chrysaetos* 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/1680	Breeds elsewhere
Gull-billed Tern *Gelochelidon nilotica* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9501	Breeds May 1 to Jul 31
Least Tern *Sterna antillarum* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Apr 20 to Sep 10
Lesser Yellowlegs *Tringa flavipes* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9679	Breeds elsewhere
Nelson's Sparrow *Ammodramus nelsoni* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 15 to Sep 5
Prairie Warbler *Dendroica discolor* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 1 to Jul 31
Purple Sandpiper *Calidris maritima* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Red-throated Loon *Gavia stellata* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Ruddy Turnstone *Arenaria interpres morinella* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds elsewhere
Rusty Blackbird *Euphagus carolinus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere

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
Snowy Owl Bubo scandiacus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Whimbrel Numenius phaeopus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9483	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

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 AKN Phenology 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

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.

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.

THERE ARE NO KNOWN WETLANDS AT THIS LOCATION.

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.

Attachment C: NYSDEC Correspondence

Village of Cedarhurst Pump Station Project

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

March 10, 2020

James McAllister
Governor's Office of Storm Recovery (GOSR)
500 Bi-county Boulevard, Suite 300
Farmingdale, NY 11735

Re: Village of Cedarhurst Stormwater Pump Station Project
County: Nassau Town/City: Hempstead

Dear Mr. McAllister:

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 rare or state-listed animals or plants, or significant natural communities at the project site. Given the nature and location of the proposed work, we have no records of concern in the vicinity of the project.

The absence of data does not necessarily mean that rare or state-listed species, significant natural communities, or other significant habitats do not exist on or adjacent to the proposed site. Rather, our files currently do not contain information that indicates their presence. 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.

This response applies only to known occurrences of rare or state-listed animals and plants, significant natural communities, and other significant habitats maintained in the Natural Heritage database. Your project may require additional review or permits; for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the NYS DEC Region 1 Office, Division of Environmental Permits, at dep.r1@dec.ny.gov.

Sincerely,

Nicholas Conrad
Information Resources Coordinator
New York Natural Heritage Program

Governor's Office of Storm Recovery

ANDREW M. CUOMO
Governor

March 2, 2020 Sent via email to: naturalheritage@dec.ny.gov

Mr. Nicholas Conrad
Division of Fish, Wildlife & Marine Resources
New York State Department of Environmental Conservation
New York Natural Heritage Program – Information Services
625 Broadway, 5th Floor
Albany, NY 12233-4757

Re: Natural Heritage Compliance Process Request
Cedarhurst Stormwater Pump Station Project
Village of Cedarhurst, Nassau County, New York

To Mr. Conrad:

The Governor's Office of Storm Recovery (GOSR), an office of the New York State Homes and Community Renewal's (NYSHCR) Housing Trust Fund Corporation (HTFC), on behalf of the U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant for Disaster Recovery (CDBG-DR), is preparing an environmental review for the proposed Cedarhurst Stormwater Pump Station Project located in the Village of Cedarhurst, Nassau County, New York (Proposed Action). The Proposed Project involves construction of a new stormwater pump station and associated structures on a 0.04-acre area of property owned by the Village of Cedarhurst (**see Figure 1 and Figure 2**).

The Proposed Project involves construction of the new stormwater pump station, with associated electric, water, pumps, motor control center, storm drainage pipe, juncture chamber, storm drainage manholes, heating and ventilation and standby power (generator). The Proposed Project would also include the installation of two stormwater quality improvement devices, a check valve and a fence around the subject property. The Village of Cedarhurst-owned subject parcel, situated east of Hanlon Drive on the north side of Peninsula Boulevard, is a portion of a larger Village owned property, indicated on the Land and Tax Map of Nassau County as Section 39, Block A, Lot 530, which contains the Village's Highway Department yard with associated structures and vehicle storage. The new Cedarhurst stormwater pump station would be constructed on a .04-acre portion of the overall 9.20-acre Village-owned property; which currently consists of a vacant lot with grass coverage, a few trees, a drain with a cast iron cover and concrete pad with pit and access hatch – part of the existing Nassau County drainage system, and an electric utility pole which will be relocated. The electric service for the proposed stormwater pump station would be placed underground.

Based on the preferred design, schedule and funding, the Cedarhurst Stormwater Pump Station would consist of one to three pumps providing greater than 50 cubic foot per second (CFS) pumping capacity and associated mechanical equipment which would be housed within the newly constructed pump station building. Following construction, the proposed pump station will be turned over to the Village of Cedarhurst for operation and maintenance. The pump station will be connected to two existing 24-inch diameter storm drains and one existing 42-inch diameter storm drain and would be designed to provide flood mitigation during severe weather events.

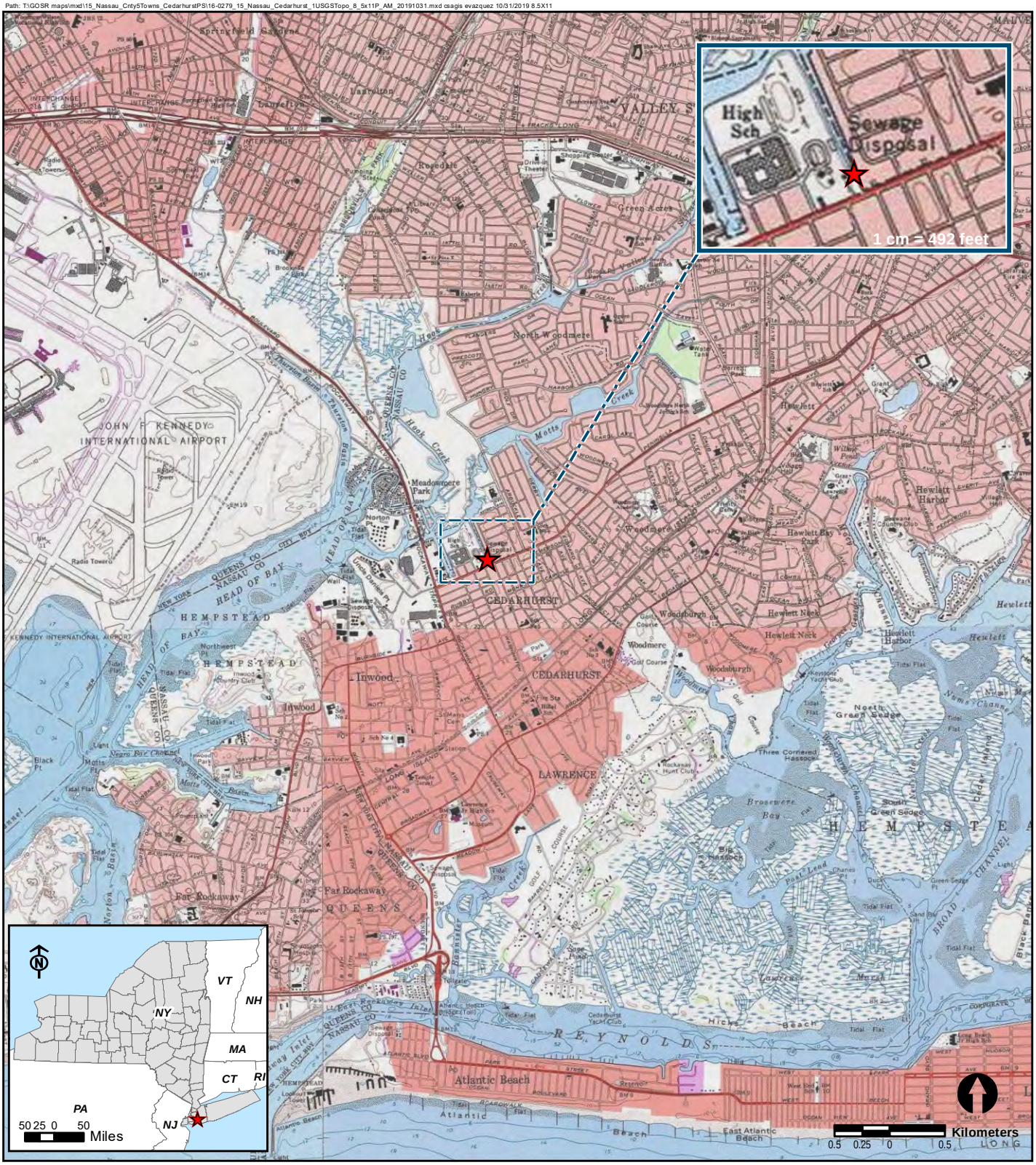
The existing flap gate would be removed at the current channel discharge point and the existing pipe penetration would be sealed. A new diesel fueled standby power generator will be provided to operate the pump station upon loss of power.

The purpose of this letter is to provide the New York State Department of Environmental Conservation Natural Heritage Program notice of the Proposed Action and to determine whether the Proposed Action has the potential to impact any state or federal endangered, threatened, and/or rare species or significant natural communities. If you have any questions, please feel free to contact me via telephone number (631) 465-9677 or email: James.McAllister@stormrecovery.ny.gov . Thank you for your consideration and cooperation.

Sincerely,

James P. McAllister
Bureau of Environmental Review and Assessment

Enclosures:
Project Location Maps



★ Proposed Pump Station

Figure 1

USGS Regional Location

Nassau County - Five Towns - Cedarhurst Pump Station Project

Nassau County, New York

Sources: USGS Topgraphic Map, Lynbrook Quadrangle Service Layer Credits: Copyright:© 2013 National Geographic Society, i-cubed. NYS Governor's Office of Storm Recovery (GOSR), URL: https://stormrecovery.ny.gov/community-regions/new-york-city.

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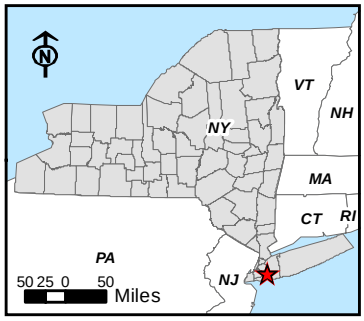
Path: T:\GOSR maps\mxd\15_Nassau_Cnty5Towns_CedarhurstPS\16-0279_15_Nassau_Cedarhurst_2SiteLocation_8_5x11P_AM_Rev20200212.mxd csagis evazquez 2/12/2020 8.5X11



Proposed Pump Station

9.2 Acre Parcel Boundary

Figure 2

Project Area

Nassau County - Five Towns - Cedarhurst Pump Station Project

Nassau County, New York

Source: Service Layer Credits Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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Appendix D: Flood Management Plan

FLOODPLAIN 8-STEP PROCESS IN ACCORDANCE WITH EXECUTIVE ORDER 11988: FLOODPLAIN MANAGEMENT EXECUTIVE ORDER 11990: WETLAND MANAGEMENT

New York Governor's Office of Storm Recovery
Five Towns Drainage Improvements:
Village of Cedarhurst, Nassau County, New York

April 22, 2020

Introduction and Overview

This Floodplain Management and Wetlands Protection Plan (Plan) Compliance Document meets the requirements of 24 CFR Part 55.20 and Executive Order 11988—Floodplain Management— and Executive Order 11990—Protection of Wetlands—for the Five Towns, Cedarhurst Pump Station Project located in the Village of Cedarhurst, Nassau County, New York (Proposed Project). On behalf of Grantee the State of New York, the Governor's Office of Storm Recovery (GOSR), serving under the auspices of the New York State Homes and Community Renewal's Housing Trust Fund Corporation, and acting under authority of the U.S. Department of Housing and Urban Development's (HUD) regulations at 24 CFR Part 58, and in cooperation with other involved, cooperating, interested agencies, is participating in the HUD's Community Development Block Grant Program as administered by the State of New York Action Plan for Community Development Block Grant Program – Disaster Recovery (CDBG-DR).

This Plan documents the eight-step decision making process for the Proposed Project and pertains to activities within the Special Flood Hazard Area (SFHA) as defined by the Federal Emergency Management Agency (FEMA) or its successors, pursuant to the National Flood Insurance Program (NFIP), or a successor program, whether advisory, preliminary, or final, and wetland as defined by 24 CFR 55.2(b)(11).

Description of Proposed Program Activities

Nassau County is proposing to implement storm water drainage improvements within the Village of Cedarhurst. The existing drainage system in the area suffers from several deficiencies which reduce capacity, leading to coastal flooding from tidal surge and rain events. To prevent flooding and improve resiliency, Nassau County is proposing construction of a new stormwater pump station - Cedarhurst Stormwater Pump Station - with associated electric, water, pumps, motor control center, storm drainage pipe, juncture chamber, storm drainage manholes, heating and ventilation and standby power (generator). The Proposed Project will also include the installation of two stormwater quality improvement devices, a check valve and a fence around the subject property. The Village of Cedarhurst-owned subject parcel, situated east of Hanlon Drive on the north side of Peninsula Boulevard, is a portion of a larger Village owned property, indicated on the Land and Tax Map of Nassau County as Section 39, Block A, Lot 530, which contains the Village's Highway Department yard with associated structures and vehicle storage. The new Cedarhurst pump station would be constructed on a 0.04-acre portion of the overall 9.20-acre Village-owned property; which currently consists of a vacant lot with grass coverage, a few trees, a drain with a cast iron cover and concrete pad with pit and access hatch – part of the existing Nassau County drainage system, and an electric utility pole which will be relocated. The electric service for the proposed stormwater plant will be placed underground. (see **Figure 1 and Figure 2** for Site Location Maps).

Based on the preferred design, schedule and funding, the Cedarhurst Stormwater Pump Station would consist of a maximum of three pumps providing a minimum of 50 cubic feet per second (CFS) pumping capacity (+/-374 gallons per second) and associated mechanical equipment which would be housed within a newly

constructed pump station building. Following construction, the proposed pump station will be turned over to the Village of Cedarhurst for operation and maintenance. The pump station will be connected to two existing 24-inch diameter storm drains and one existing 42-inch diameter storm drain and would be designed to provide flood mitigation during severe weather events. The existing flap gate would be removed at the current channel discharge point and the existing pipe penetration would be sealed. A new diesel fueled 200 kW emergency generator will be provided to operate the pump station upon loss of power. Fuel for the generator would be stored in a 1,200-gallon, double walled, above ground storage tank within the pump station building. The generator and fuel tank will be elevated to base flood elevation plus 2 feet (BFE +2) to protect and ensure operation during future stormwater flood events.

The Proposed Project is located within a FEMA designated regulatory floodplain and within a NYSDEC Mapped Tidal Wetland Adjacent Area. The Proposed Activity would result in temporary impacts to less than 0.1 acre of previously disturbed 100-Year Floodplain and Tidal Wetland Adjacent Area. A total of 0.04 acres of permanent impacts would occur to the 100-Year Floodplain and Tidal Wetland Adjacent Area from the construction and placement of the new pump station.

The storm surge created by Hurricane Sandy caused significant stormwater back-up in the Village of Cedarhurst and the Five Towns Community. This storm surge carried from six to 11 feet of water and in the Village of Cedarhurst, approximately 300 homes were flooded. The purpose of the Proposed Project is to control stormwater flow during and improve resiliency after extreme weather events by creating new infrastructure to remove flood water from affected roadways and out of the community. Currently, roadway flooding impedes or blocks vehicular and pedestrian travel. This is particularly troublesome on Peninsula Boulevard, as Peninsula Boulevard is a main artery and major emergency evacuation route for the Five Towns Community. The Proposed Project was identified by the community during the CDBG-DR Community Reconstruction planning process and then derived from the CDBG-DR funded *Five Towns Drainage Study, November 30, 2017* which was prepared for Nassau County by AECOM and Cameron Engineering. The study recommended a minimum of 50 cubic feet per second (CFS) pump to effectively remove water from the affected areas. The Proposed Project is needed to reduce the risk of chronic flooding associated with extreme high tides and storm events which effect local residential, municipal, institutional, and commercial areas and impede vehicle ingress and egress throughout the community. The pump station will improve resiliency for these areas in the face of sea level rise and increasing frequency and intensity of extreme weather events. In addition, flooding periodically extends onto surrounding residential properties, causing damage and limiting access. The Proposed Project would also provide for better access for first responders and emergency vehicles during and after flooding events.

Executive Orders 11988 and 11990 & 24 CFR Part 55

Pursuant to 24 CFR §55.20, an 8-step process for floodplain management must be completed for proposed actions taking place in a floodplain or wetland. 24 CFR §55.20 implements Executive Order (EO) 11988 (Floodplain Management) and Executive Order 11990 (Protection of Wetlands). EO 11988 requires federal agencies (or a state agency implementing a federal funding program) to reduce the loss of life and property caused by floods, minimize impacts of floods on human safety, health, and welfare, and preserve the natural and beneficial functions of floodplains. EO 11990 requires federal agencies (or a state agency implementing a federal funding program) to minimize the destruction, loss, or degradation of wetlands and to preserve and enhance the natural and beneficial values of wetlands.

In addition, federal agencies are required to demonstrate that consideration of all practicable alternatives has resulted in the reduction or elimination of long- and short-term adverse impacts associated with occupancy and modifications of the floodplain or wetlands. This 8-step process includes assessing all practicable alternatives and incorporating public review.

Projects located within a Special Flood Hazard Area (SFHA) are subject to Executive Order 11988. Information relative to where SFHAs are located is available on Flood Insurance Rate Maps (FIRMs)

published by FEMA. FEMA uses engineering studies to determine the delineation of these areas or zones subject to flooding. The relevant data source for the SFHA is the latest issued FEMA data or guidance, which includes advisory data, such as Advisory Base Flood Elevations (ABFEs) or preliminary and final FIRMs.

The SFHA is the area that would be inundated by a 100-year flood; which is an area that has a one percent or greater chance of experiencing a flood in any single year. SFHAs are shown on FIRMs as shaded areas labeled with the letter "A" or "V".

- "V" zones are coastal flood hazard zones subject to wave run-up in addition to storm surge.
- "A" zones include all other SFHAs.
- "VE" zones, "AE" zones, "V" zones, or "A" zones followed by a number are areas with specific flood elevations, known as Base Flood Elevations (BFE).
- A zone with the letter "A" or "V" by itself is an appropriately studied flood hazard area without a specific flood elevation.
- Within an "AE" zone or a numbered "A" zone, there may be an area known as the "regulatory floodway," which is the channel of a river and adjacent land areas which must be reserved to discharge a 100-year flood without causing a rise in flood elevations.

24 CFR Part 55.20 Eight-Step Process

Step ONE: Determine if the proposed action is in a 100-year floodplain or wetland.

The project site is located in Zone AE of the SFHA. Areas designated as an SFHA are those subject to inundation by the one percent annual chance flood (e.g., a 100-year flood), also known as the base flood. Although the project site is not located within the boundaries of a federal or state wetland, the proposed project is situated in a NYSDEC mapped Tidal Wetland Adjacent Area.

Step TWO: Notify the public at the earliest possible time of a proposal to consider an action in a wetland or floodplain (or in the 500-year floodplain for a Critical Action) and involve the affected and interested public in the decision-making process.

Since the Proposed Activities would be located in the SFHA, GOSR must publish an early notice that allows the public an opportunity to provide input into the decision to provide funding for the Proposed Action activities in this area. Once the early public notice and comment period is complete, GOSR will assess, consider, and respond to the comments received individually and collectively for the Proposed Action file, then proceed to Step Three.

A 15-day "Early Notice and Public Explanation of a Proposed Activity in a 100-Year Floodplain and Wetland" was published in The Nassau County Herald on November 7, 2019 (see EXHIBIT 2 for affidavit of publication). The 15-day comment period expired on November 22, 2019. The notice was also sent to the following state and federal agencies on November 20, 2019: Federal Emergency Management Agency (FEMA), U.S. Department of the Interior (DOI), U.S. Environmental Protection Agency (EPA), U.S. Department of Homeland Security (DHS), U.S Fish and Wildlife Service (FWS NYS Department Environmental Conservation; the NYS Office of Parks, Recreation and Historic Preservation; NYS Department of Transportation; NYS Office of Emergency Management. The notice was also sent to the office of Nassau County Executives.

GOSR received 0 public comments on this notice.

Step THREE: Identify and evaluate practicable alternatives to locating the proposed action in a wetland or floodplain (or the 500-year floodplain for a Critical Action).

The Applicant considered the following alternatives in selecting the Proposed Action:

No Action Alternative
Not undertaking the Project would not be consistent with the goals and objectives of the Nassau County's NYRCR Plan. Further, the Village of Cedarhurst would continue to flood during storm events, endangering the lives of local residents. Thus, the No Action alternative is not feasible in relation to the desired objective of creating resiliency and improved conditions under future tidal and rain events.

Alternative Site Alternative
The 9.2-acre project site, west and across Hanlon Drive, historically contained the Cedarhurst Sewage Treatment Plant (STP). The WTP was built in 1935 and served the Villages of Lawrence and Cedarhurst until the flow was diverted to the Nassau County sewage treatment system in 2011. After that time, the STP was decommissioned and demolished; and the facility was removed from the property sometime after 2014. The Village has indicated their desire to develop or utilize this parcel in the future and therefore it is unavailable to be considered as an alternative location for the proposed pump station. Further west is additional residences and Lawrence High School. To the south of the property is Peninsula Boulevard, to the west is a built-out residential community, and to the north is Mott Creek and North Woodmere Park. Therefore, there are no viable alternative sites located nearby for the Proposed Project.

Step FOUR: Identify the potential direct and indirect impacts associated with the occupancy or modification of the wetland or floodplain (or 500-year floodplain for a Critical Action).

The Proposed Activity would result in less than 0.1 acre of temporary impacts and less than 0.04 acres of permanent impacts to the 100-Year Floodplain. Although the project area lies within NYSDEC mapped Adjacent Area, the Proposed Activity would not result in any temporary or permanent impacts to federal or state wetlands, since none occur on site.

The Proposed Action would result in short-term impacts to previously disturbed areas and no substantive short- or long-term change to the natural and beneficial values of wetlands and floodplains. Potential adverse impacts from construction would be temporary (less than eight months) and mitigated through detailed construction staging plans developed in partnership with Nassau County and the Village of Cedarhurst to minimize disturbance throughout the construction period. The Proposed Project would result in a beneficial outcome for businesses and residents of the Village of Cedarhurst by ensuring that local key road segments, including Peninsula Boulevard, remain open and passable during future storm events.

Step FIVE: Where practicable, design or modify the proposed action to minimize the potential adverse impacts within the wetland or floodplain (including the 500-year floodplain for a Critical Action) and to restore and preserve its natural and beneficial values.

The Proposed Action would be implemented on land owned by the Village of Cedarhurst that has been previously disturbed. Siting the new pump station at this location would minimize impacts to the floodplain. No wetlands would be impacted by the proposed project. In addition, the Proposed Project will allow more water to be directed away from local roadways and homes. Strict requirements for the disposal of debris generated during construction will be in place to prevent, to the extent possible, negative impacts to the floodplain. The handling and disposal of construction debris, control of stormwater runoff, and noise impacts resulting from construction activities would be in accordance with all local and state regulations.

The Proposed Project would also implement and maintain erosion and sedimentation control measures to prevent deposition of sediment and eroded soil into the nearby canal. Best management practices (BMPs),

such as silt fence and erosion prevention, would be implemented as required by permits or agency discretion. Because the Proposed Project would not result in adverse impacts on the natural and beneficial values of wetlands and the floodplain, no additional methods to minimize those impacts are proposed.

Step SIX: Reevaluate the proposed action to determine if it is still practicable given its floodplain and wetland effects.

GOSR has reevaluated the proposed action and determined that the action is still practicable in light of its potential exposure to flood hazards in the floodplain. The Proposed Action would not aggravate current hazards to the floodplain, nor will the Proposed Action permanently disrupt floodplain or wetland values. The addition of the new pump station would cause only a slight increase in impervious surface (0.04 acres), which will only minimally affect the floodplain. No wetlands would be impacted by the proposed project.

Step SEVEN: If the reevaluation results in a determination that there is no practicable alternative to locating the proposal in the wetland or floodplain (or the 500-year floodplain for a Critical Action), publish a final notice.

It is GOSR's determination that the preferred alternative is implementing the Five Towns Stormwater Drainage Improvements, Village of Cedarhurst Pump Station Project. Beneficial results would include the resiliency of residential and commercial properties as well as important transportation routes which currently experience extensive flooding during storm events. The Proposed Action would ensure that vehicular traffic can safely move through the area and minimize adverse community impacts from storm events.

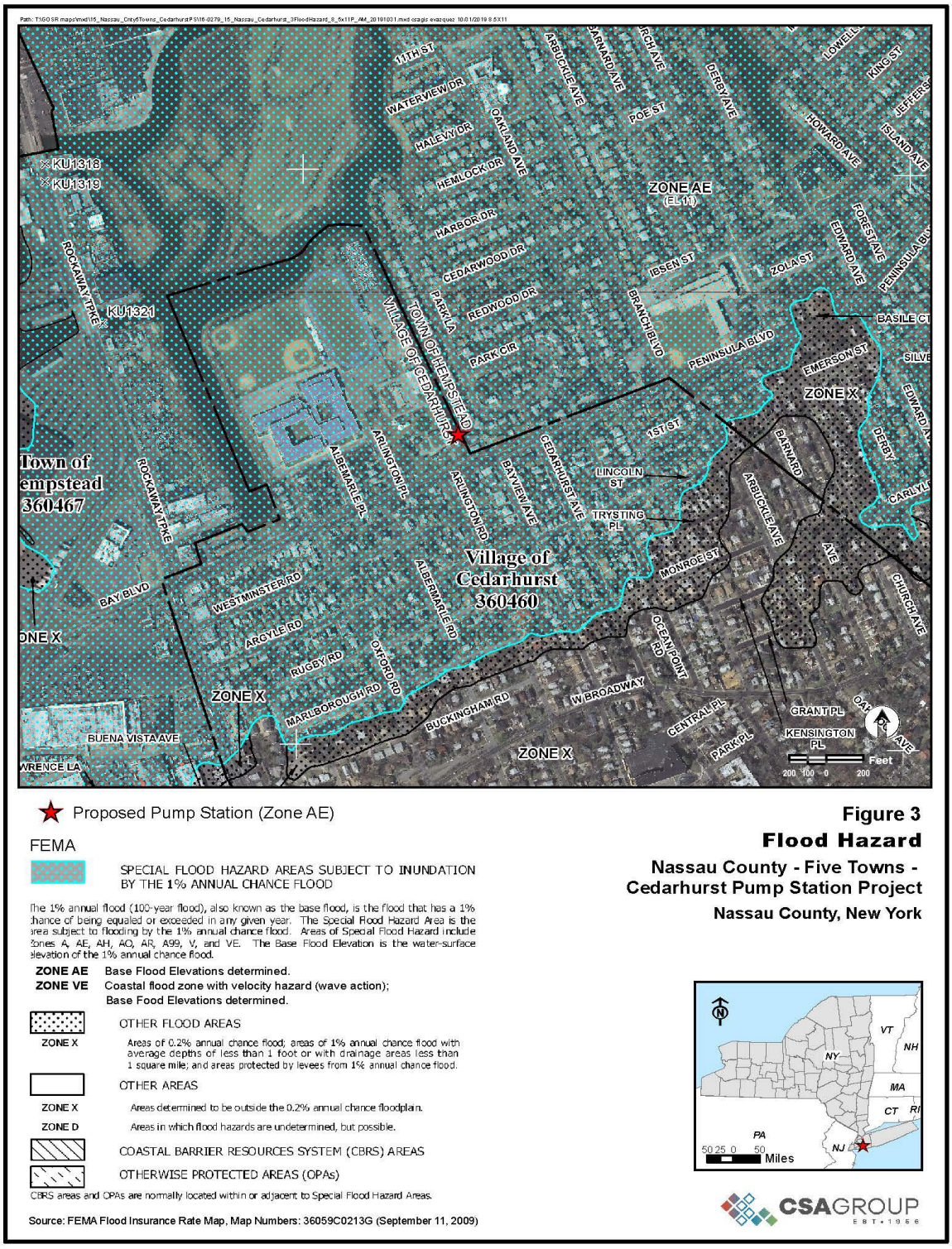
A 15-day Final Notice, formally known as "Combined Notice of Intent to Request Release of Funds, FONSI and Final Notice and Public Explanation of a Proposed Activity in A Floodplain and Wetland" was published on April 30, 2020 in accordance with 24 CFR 55. 19. The 15-day period expired on May 15, 2020. The notice targeted local residents, including those in the floodplain. The notice was also sent to the following state and federal agencies on April 30, 2020: U.S. Dep. of Housing and Urban Development; U.S. Environmental Protection Agency (EPA); U.S. Department of Homeland Security (DHS); U.S Fish and Wildlife Service (FWS); ; NYS Department Environmental Conservation; the NYS Division of Homeland Security & Emergency Services the NYS Office of Parks, Recreation and Historic Preservation; NYS Department of Transportation; and NYS Office of Emergency Management. The notice was also sent to Nassau County and Village of Cedarhurst Officials (see EXHIBIT 3 for the notice).

GOSR received 0 public comments on this notice.

Step EIGHT: The proposed action can be implemented after steps 1 through 7 have been completed. Step eight is implementation of the Proposed Action. GOSR will ensure that all mitigation measures prescribed in the steps above will be adhered to. Also, prior to Proposed Action implementation, GOSR will conduct a National Environmental Policy Act (NEPA) review in accordance with 24 CFR Part 58 and a New York State Environmental Quality Review Act (SEQR) review in accordance with 6 NYCRR Part 617.

EXHIBITS
EXHIBIT 1: FIRM and Wetland Site Location Maps
EXHIBIT 2: Copy of Notice Transmitting Notice of Early Public Review and Proof of Publication
EXHIBIT 3: Public Comments Received and Response, if applicable
EXHIBIT 4: Copy of Transmittal of Notice of Final Public Review and Proof of Publication

EXHIBIT 1a:
Cedarhurst Pump Station FEMA Flood Hazard Map



★ Proposed Pump Station (Zone AE)

FEMA

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE AE Base Flood Elevations determined.
ZONE VE Coastal flood zone with velocity hazard (wave action); Base Food Elevations determined.

OTHER FLOOD AREAS

ZONE X — Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X — Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D — Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

Source: FEMA Flood Insurance Rate Map, Map Numbers: 36059C0213G (September 11, 2009)

Figure 3
Flood Hazard
Nassau County - Five Towns - Cedarhurst Pump Station Project
Nassau County, New York

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EXHIBIT 1b:
Cedarhurst Pump Station Wetland Map

EXHIBIT 2
Copy of Notice Transmitting Notice of Early Public Review and Proof of Publication

Governor's Office of Storm Recovery

ANDREW M. CUOMO
Governor

EARLY NOTICE OF A PROPOSED ACTIVITY IN A 100-YEAR FLOODPLAIN AND WETLANDS
FIVE TOWNS DRAINAGE IMPROVMENT PROJECTS
INWOOD, WOODMERE, LAWRENCE, CEDARHURST
TOWN OF HEMPSTEAD, NASSAU COUNTY, NEW YORK
November 7, 2019

To: All interested Agencies, Groups, and Individuals

This is to give notice that the Governor's Office of Storm Recovery (GOSR), an office of the New York State Housing Trust Fund Corporation (HTFC), has received applications from the Town of Hempstead and Nassau County to use Community Development Block Grant – Disaster Recovery (CDBG-DR) funding from the NY Rising Community Reconstruction Program to implement stormwater drainage improvements at four locations within the Five Towns Communities of Inwood, Woodmere, Lawrence and Cedarhurst (hereinafter, the "Proposed Action") and is conducting an evaluation as required by Executive Order 11988 and Executive Order 11990 in accordance with U.S. Department of Housing and Urban Renewal (HUD) regulations (24 CFR Part 55). There are three primary purposes for this notice. First, to provide the public an opportunity to express their concerns and share information about the Proposed Action, including alternative locations outside of the 100-year floodplain and wetlands. Second, adequate public notice is an important public education tool. The dissemination of information about floodplains and wetlands facilitates and enhances governmental efforts to reduce the risks associated with the occupancy and modification of these special areas. Third, as a matter of fairness, when the government determines it will participate in actions taking place in floodplains or wetlands, it must inform those who may be put at greater or continued risk. Funding for the Proposed Action will be provided to the implementing parties, the Town of Hempstead and Nassau County, by the HUD CDBG-DR program for storm recovery activities in New York State.

The storm surge created by Hurricane Sandy caused significant stormwater back-ups and flooding within the Five Towns Communities. The purpose of the Proposed Action is to reduce tidal and storm flooding, enhance roadway infrastructure and reduce pollutants and contaminants from reaching the adjacent water bodies during future storm events. The Proposed Action is needed to reduce risk of chronic flooding associated with extreme high tides and storm events in both residential and commercial areas, thus improving resiliency for these areas in the face of sea level rise and increasing frequency and intensity of extreme weather events. In addition, flooding periodically extends to surrounding residential properties, causing damage and disrupting ingress and egress to these areas. The Proposed Action would also provide for better access for emergency vehicles during and after flooding events.

The Town of Hempstead proposes to implement projects to improve drainage in the hamlets of Inwood and Woodmere. The hamlet of Inwood project is located within a FEMA designated regulatory floodplain and would involve the installation of stormwater detention systems under the Inwood Marina parking lot, installation of stormwater quality treatment devices, installation of inline backflow prevention devices, and the raising of the adjacent local streets to a new, higher target flow line elevation. The Proposed Activity would result in temporary impacts to less than one acre of previously disturbed 100-Year Floodplain; no permanent impacts to the regulatory floodplain would occur from the proposed project. No federal or state wetlands would be impacted by the Proposed Activity at the Inwood location.

The proposed project within the hamlet of Woodmere is located within a FEMA designated regulatory floodplain and would involve the addition of catch basins and manholes, installation of backflow prevention devices on existing storm water outfalls and roadway reconstruction. The Proposed Activity would result in temporary impacts to less than one acre of previously disturbed 100-Year Floodplain; no permanent impacts to the regulatory floodplain would occur from the proposed project. No federal or state wetlands would be impacted by the Proposed Activity at the Woodmere location.

Nassau County's proposed project within the Village of Lawrence involves roadway and drainage improvements to increase capacity of the existing stormwater management system by installing larger pipes, box culverts, vortex separators and backflow prevention devices. In addition, two new 60" outfall pipes with backflow prevention devices will be installed between Bannister Pond and Bannister Bay. The Proposed Activity would result in temporary impacts to less than 1.0 acres of previously disturbed 100-Year Floodplain. There will be 0.026 acres of permanent impacts to the Barrister Pond area in the FEMA floodplain, from the placement of rip rap to stabilize the shoreline. All temporary impacts will be restored in kind.

Approximately 0.30 acres of temporary impacts to USFWS National Wetland Inventory (NWI) mapped wetlands would occur from the disturbance for installation of the 5' x 10' culvert box south of North Street and removal of sediment from Bannister Pond. Temporary impacts to approximately 0.05 acres of New York State Department of Environmental Conservation (NYSDEC) waterway and NYSDEC regulated streambank would also result from the Proposed Action. Approximately 0.026 acres of permanent impacts to USFWS NWI and NYSDEC mapped wetlands and waterway would occur from the removal of sediment and the placement of riprap in Barrister Pond. It should be noted that although the NWI map indicates the presence of a riparian feature extending along North Street, field studies have indicated that this linear feature is a paved golf cart path; no impacts to federal wetlands will occur at this location along North Sreet.

The proposed project within the Village of Cedarhurst involves construction of a stormwater pump station and associated infrastructure adjacent to Peninsula Boulevard to alleviate flooding in this flood-prone area. The Proposed Action would result in less than one acre of temporary and permanent impacts to previously disturbed 100-Year Floodplain. No federal or state wetlands would be impacted by the proposed Cedarhurst project.

Floodplain maps based on the FEMA Flood Insurance Rate Maps and wetlands maps based on the NWI and DEC data have been prepared and are available for review with additional information at http://www.stormrecovery.ny.gov/environmental-docs.

Any individual, group, or agency may submit written comments on the Proposed Activity or request further information by contacting Lori A. Shirley, Certifying Environmental Officer, Governor's Office of Storm Recovery, 500 Bi-County Boulevard, Farmingdale, NY 11735; email: NYSCDBG_DR_ER@nyshcr.org. Standard office hours are 9:00 AM to 5:00 PM Monday through Friday. For more information call 518-474-0755. All comments received by November 22, 2019 will be considered.

Sincerely,

Lori A. Shirley

Certifying Environmental Officer

FIVE TOWNS - EARLY NOTICE DISTRIBUTION LIST

FEDERAL AGENCIES

By Overnight Express:
Mrs. Tennille Smith Parker, Director
U.S. Dep. of Housing and Urban Development
Disaster Recovery and Special Issues Division
451 7th Street SW, Room 7272
Washington, DC 20410

By email only:
Ms. Rhoda M. Nicholson
U.S. Dep. Of Housing and Urban Development
disaster_recovery@hud.gov

Mr. Mike Poetzsch
U.S. Environmental Protection Agency
poetzsch.michael@epa.gov

Thomas Von Essen, Regional Administrator
U.S. Dep. of Homeland Security
Federal Emergency Management Agency, R II
26 Federal Plaza
New York, NY 10278-0002

Ms. Therese J. Fretwell, Enviro. Officer, R 1 & 2
U.S. Dep. of Housing and Urban Development
26 Federal Plaza, Room 3541
New York, NY 10278-0068

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

STATE/LOCAL AGENCIES

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

Mr. Ron Rausch, Director
Environmental Management Bureau
Office of Parks, Recreation and Historic Preservation
625 Broadway, 2nd Floor
Albany, New York 12238

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

Laura Curran, County Executive
Nassau County
1550 Franklin Avenue,
Mineola, NY 11501

Sean Sallie, Deputy Commissioner
Department of Public Works
Nassau County
1194 Prospect Avenue
Westbury NY 11590

Douglas L. Tuman, P.E., Commissioner
Town of Hempstead
350 Front Street
Hempstead, NY 11550

Jeffrey Tierney, Deputy Commissioner
Town of Hempstead Department of Engineering
350 Front Street
Hempstead, NY 11550

David Vines
Town of Hempstead Department of Engineering
350 Front Street
Hempstead, NY 11550

RICHNER COMMUNICATIONS INC

www.liherald.com

Affidavit of Publication

State Of New York,
Nassau County

Nadia Powell being duly sworn, deposes and says that he/she is the principal clerk of Richner Communications, Inc., publishers of the

Nassau Herald

A weekly newspaper published and mailed at

Lawrence

New York and the attached notice of

FIVE TOWNS DRAINAGE IMPROVEMENT PROJECTS

was published in the issue(s) of that paper as follows:

11/7/19

Nadia Powell

Subscribed and sworn to before me this 7 November 2019

Notary Public

STUART RICHNER
NOTARY PUBLIC, STATE OF NEW YORK
Registration No. 02RI6155489
Qualified in NASSAU County
Commission Expires 11/13/22

LEGAL NOTICE
EARLY NOTICE OF A PROPOSED ACTIVITY IN A 100-YEAR FLOODPLAIN AND WETLANDS
FIVE TOWNS DRAINAGE IMPROVMENT PROJECTS
INWOOD, WOODMERE, LAWRENCE, CEDARHURST
TOWN OF HEMPSTEAD, NASSAU COUNTY, NEW YORK

This is to give notice that the Governor's Office of Storm Recovery (GOSR), an office of the New York State Housing Trust Fund Corporation (HTFC), has received applications from the Town of Hempstead and Nassau County to use Community Development Block Grant - Disaster Recovery (CDBG-DR) funding from the NY Rising Community Reconstruction Program to implement stormwater drainage improvements at four locations within the Five Towns Communities of Inwood, Woodmere, Lawrence and Cedarhurst (hereinafter, the "Proposed Action") and is conducting an evaluation as required by Executive Order 11988 and Executive Order 11990 in accordance with U.S. Department of Housing and Urban Renewal (HUD) regulations (24 CFR Part 55). There are three primary purposes for this notice. First, to provide the public an opportunity to express their concerns and share information about the Proposed Action, including alternative locations outside of the 100-year floodplain and wetlands. Second, adequate public notice is an important public education tool. The dissemination of information about floodplains and wetlands facilitates and enhances governmental efforts to reduce the risks associated with the occupancy and modification of these special areas. Third, as a matter of fairness, when the government determines it will participate in actions taking place in floodplains or wetlands, it must inform those who may be put at greater or continued risk. Funding for the Proposed Action will be provided to the implementing parties, the Town of Hempstead and Nassau County, by the HUD CDBG-DR program for storm recovery activities in New York State.

BALDWIN HERALD • BELLMORE HERALD LIFE • EAST MEADOW HERALD • FRANKLIN SQUARE/ELMONT HERALD • FREEPORT HERALD LEADER • GLEN COVE HERALD GAZETTE
LONG BEACH HERALD • LYNBROOK/EAST ROCKAWAY HERALD • MALVERNE/WEST HEMPSTEAD HERALD • MERRICK HERALD LIFE • NASSAU HERALD
OCEANSIDE/ISLAND PARK HERALD • OYSTER BAY GUARDIAN • ROCKAWAY JOURNAL • SEA CLIFF/GLEN HEAD HERALD GAZETTE • ROCKVILLE CENTRE HERALD
SEAFORD HERALD CITIZEN • SOUTH SHORE RECORD • VALLEY STREAM HERALD • WANTAGH HERALD CITIZEN

2 Endo Boulevard • Garden City, NY 11530 • Voice: 516-569-4000 • Fax: 516-569-4631

The storm surge created by Hurricane Sandy caused significant stormwater back-ups and flooding within the Five Towns Communities. The purpose of the Proposed Action is to reduce tidal and storm flooding, enhance roadway infrastructure and reduce pollutants and contaminants from reaching the adjacent water bodies during future storm events. The Proposed Action is needed to reduce risk of chronic flooding associated with extreme high tides and storm events in both residential and commercial areas, thus improving resiliency for these areas in the face of sea level rise and increasing frequency and intensity of extreme weather events. In addition, flooding periodically extends to surrounding residential properties, causing damage and disrupting ingress and egress to these areas. The Proposed Action would also provide for better access for emergency vehicles during and after flooding events.

The Town of Hempstead proposes to implement projects to improve drainage in the hamlets of Inwood and Woodmere. The hamlet of Inwood project is located within a FEMA designated regulatory floodplain and would involve the installation of stormwater detention systems under the Inwood Marina parking lot, installation of stormwater quality treatment devices, installation of inline backflow prevention devices, and the raising of the adjacent local streets to a new, higher target flow line elevation. The Proposed Activity would result in temporary impacts to less than one acre of previously disturbed 100-Year Floodplain; no permanent impacts to the regulatory floodplain would occur from the proposed project. No federal or state wetlands would be impacted by the Proposed Activity at the Inwood location.

The proposed project within the hamlet of Woodmere is located within a FEMA designated regulatory floodplain and would involve the addition of catch basins and manholes, installation of backflow prevention devices on existing storm water outfalls and roadway reconstruction. The Proposed Activity would result in temporary impacts to less than one acre of previously disturbed 100-Year Floodplain; no permanent impacts to the regulatory floodplain would occur from the proposed project. No federal or state wetlands would be impacted by the Proposed Activity at the Woodmere location.

Nassau County's proposed project within the Village of Lawrence involves roadway and drainage improvements to increase capacity of the existing stormwater management system by installing larger pipes, box culverts, vortex separators and backflow prevention devices. In addition, two new 60" outfall pipes with backflow prevention devices will be installed between Bannister Pond and Bannister Bay. The Proposed Activity would result in temporary impacts to less than 1.0 acres of previously disturbed 100-Year Floodplain. There will be 0.026 acres of permanent impacts to the Barrister Pond area in the FEMA floodplain, from the placement of rip rap to stabilize the shoreline. All temporary impacts will be restored in kind.

Approximately 0.30 acres of temporary impacts to USFWS National Wetland Inventory (NWI) mapped wetlands would occur from the disturbance for installation of the 5' x 10' culvert box south of North Street and removal of sediment from Bannister Pond. Temporary impacts to approximately 0.05 acres of New York State Department of Environmental Conservation (NYSDEC) waterway and NYSDEC regulated streambank would also result from the Proposed Action. Approximately 0.026 acres of permanent impacts to USFWS NWI and NYSDEC mapped wetlands and waterway would occur from the removal of sediment and the placement of riprap in Barrister Pond. It should be noted that although the NWI map indicates the presence of a riparian feature extending along North Street, field studies have indicated that this linear feature is a paved golf cart path; no impacts to federal wetlands will occur at this location along North Street.

The proposed project within the Village of Cedarhurst involves construction of a stormwater pump station and associated infrastructure adjacent to Peninsula Boulevard to alleviate flooding in this flood-prone area. The Proposed Action would result in less than one acre of temporary and permanent impacts to previously disturbed 100-Year Floodplain. No federal or state wetlands would be impacted by the proposed Cedarhurst project.

Floodplain maps based on the FEMA Flood Insurance Rate Maps and wetlands maps based on the NWI and DEC data have been prepared and are available for review with additional information at http://www.stormrecovery.ny.gov/environmental-docs.

Any individual, group, or agency may submit written comments on the Proposed Activity or request further information by contacting Lori A. Shirley, Certifying Environmental Officer, Governor's Office of Storm Recovery, 500 Bi-County Boulevard, Farmingdale, NY 11735; email: NYSCDBG_DR_ER@nyshcr.org. Standard office hours are 9:00 AM to 5:00 PM Monday through Friday. For more information call 518-474-0755. All comments received by November 22, 2019 will be considered. Sincerely, Lori A. Shirley, Certifying Environmental Officer

116907

Affidavit of Mailing

STATE OF NEW YORK)

:SS.:

CITY OF NEW YORK)

I, CYNTHIA WALLACE, being duly sworn, deposes and says:

1. I am over the age of 18 years
2. On November 5, 2019, I mailed true and correct copies of the early notice of proposed activity in a floodplain and wetland dated November 7, 2019 by placing in first class, post-paid envelopes addressed: SEE ATTACHED LIST.
3. On said day, I deposited said 11 envelopes in a mailbox at United State Post Office, West Village, 527 Hudson St. FRNT A, New York, NY 10014-9992 at 04:23pm
4. 1 via UPS overnight at 5:46pm

Sworn to before me this
5th Day of Nov, 2019

ELISA MEDINA
NOTARY PUBLIC State of New York
Notary Public No 01ME6117717
Qualified in Queens County
Commission Expires November 1 20 20

EXHIBIT 3
Public Comments Received and Response

(no comments received)

EXHIBIT 4
Copy of Transmittal Notice of Final Public Review
and Proof of Publication
[Will be published April 30, 2020]

PUBLIC NOTICE

COMBINED NOTICE OF FINDING OF NO SIGNIFICANT IMPACT (FONSI) AND NOTICE OF INTENT TO REQUEST RELEASE OF FUNDS AND FINAL NOTICE AND PUBLIC EXPLANATION OF A PROPOSED ACTIVITY IN A FLOODPLAIN AND WETLAND

FIVE TOWNS DRAINAGE IMPROVEMENTS: VILLAGE OF CEDARHURST PUMP STATION PROJECT NASSAU COUNTY, NEW YORK APRIL 30, 2020

Name of Responsible Entity and Recipient: New York State Homes and Community Renewal (HCR), 38-40 State Street, Hampton Plaza, Albany, NY 12207, in cooperation with the New York State Housing Trust Fund Corporation (HTFC), of the same address. Contact: James McAllister, Certifying Environmental Officer, Bureau of Environmental Review and Assessment Governor's Office of Storm Recovery 500 Bi-County Boulevard, Suite 300, Farmingdale, NY 11735 (646) 256-9485. The Governor's Office of Storm Recovery (GOSR), an office of HCR's HTFC, is responsible for the direct administration of the United States Department of Housing and Urban Development (HUD) Community Development Block Grant – Disaster Recovery (CDBG-DR) program in New York State.

Pursuant to 24 CFR part 58 and 24 CFR part 55, this combined Notice of Finding of No Significant Impacts, Notice of Intent to Request Release of Funds (FONSI/NOIRROF) and Final Notice and Public Explanation of a Proposed Activity in a floodplain and wetlands satisfies three separate procedural requirements for project activities proposed to be undertaken by HCR.

Project Description: The Governor's Office of Storm Recovery (GOSR), an office of HCR's HTFC, is responsible for the direct administration of the United States Department of Housing and Urban Development (HUD) Community Development Block Grant – Disaster Recovery (CDBG-DR) program in New York State. GOSR proposes to provide $3,237,000.00 in funding to Nassau County for the Cedarhurst Pump Station Project.

Nassau County is proposing construction of a new stormwater pump station with associated appurtenances including pumps, motor control center, storm drainage pipe, juncture chamber, storm drainage manholes, heating and ventilation and standby power. The Proposed Project will also include the installation of two stormwater quality improvement devices, a check valve and a fence around the subject property. The new Cedarhurst pump station would be constructed on a 0.04-acre portion of the overall 9.20-acre Village-owned property, which currently consists of a vacant lot with grass coverage, a few trees, and underground infrastructure associated with the existing Nassau County drainage system. The purpose of the Proposed Project is to control stormwater flow during and after extreme weather events by creating new infrastructure to remove flood water from affected roadways and out of the community.

PUBLIC EXPLANATION OF A PROPOSED ACTIVITY IN A 100-YEAR FLOODPLAIN AND WETLAND

The Proposed Project is located in the 100-year floodplain (SFHA Zone AE) and within a NYSDEC Mapped Tidal Wetland Adjacent Area. Since the action will include new construction in a floodplain and wetland adjacent area, Executive Orders 11990 and 11988 require that the project not be supported if there are practicable alternatives to development in floodplain and new construction in wetlands. The Proposed Activity would result in temporary impacts to less than 0.1 acre of previously disturbed 100-Year Floodplain and Tidal Wetland Adjacent Area. A total of 0.04 acres of permanent impacts would occur to the 100-Year Floodplain and Tidal Wetland Adjacent Area from the construction and placement of the new pump station.

GOSR has evaluated the alternatives to the Proposed Project activities in the floodplain and wetlands and has determined that the proposed activities must take place in the floodplain and wetland adjacent area. The area of construction for the pump house has already been previously disturbed. The primary alternative for the current proposed action is the "No Action" alternative. Not undertaking the Proposed Action would not be consistent with the goals and objectives of the 5 Towns New York Rising Community Reconstruction Plan, in which it is a featured project that would improve storm water conveyance through the existing system while increasing flood flow capacity. The No Action Alternative would result in future severe flooding of adjacent commercial and residential properties and will cost the Village of Cedarhurst significantly more money in damages over time. Without a new pump station, Peninsula Boulevard, vehicular traffic, emergency response, and the surrounding properties would continue to be impacted by flooding.

Potential adverse impacts from construction would be temporary (less than eight months) and mitigated through a detailed construction staging plan developed in partnership with the appropriate municipalities to minimize disturbance throughout the construction period. Work proposed as part of the Project will not disturb or modify the floodplain and appropriate state and federal permits will be obtained prior to construction to protect the adjacent canal. Applicable permits from the NYSDEC and the USACOE will be acquired before work is commenced. The Applicant will be bound by any permit stipulations or mitigation measures listed in permits acquired for this project

This is to give notice that the GOSR has conducted an evaluation as required by Executive Order 11988 and Executive Order 11990 in accordance with U.S. HUD regulations under 24 CFR 55.20 Subpart C - Procedures for Making Determinations on Floodplain Management, to determine the potential effects that its activity in the floodplain and wetlands would have on the human environment. An early public notice of proposed activity within the 100-year floodplain was published by the Governor's Office of Storm Recovery on November 7, 2019, in the Nassau Herald. No comments were received.

A draft Floodplain Management Plan (8-step process) documenting compliance with Executive Orders 11988 and 11990 as well as floodplain and wetland maps have been prepared for this project and are available for review at:
http://www.stormrecovery.ny.gov/environmental-docs.

FINDING OF NO SIGNIFICANT IMPACT

An Environmental Assessment (EA) for the Proposed Project has been prepared in accordance with the National Environmental Policy Act of 1969 (NEPA) and HUD environmental review regulations at 24 CFR Part 58. The EA is incorporated by reference into this FONSI. Subject to public comments, no further review of the Proposed Project is anticipated. HCR has determined that the EA for the project identified herein complies with the requirements of HUD environmental review regulations at 24 CFR Part 58. HCR has determined that the Proposed Project will have no significant impact on the human environment and therefore does not require the preparation of an environmental impact statement under NEPA.

Public Review: Public viewing of the EA and Floodplain Management & Protection of Wetland Determination Documents area available online at http://stormrecovery.ny.gov/environmental-docs and can also be made available in hard copy by contacting James McAllister at (646) 256-9485.

Further information may be requested by writing to the above address, emailing NYSCDBG_DR_ER@nyshcr.org or by calling (631) 465-9677. This combined notice is being sent to individuals and groups known to be interested in these activities, local news media, appropriate local, state and federal agencies, the regional office of the U.S. Environmental Protection Agency having jurisdiction, and to the HUD Field Office, and is being published in a newspaper of general circulation in the affected community.

Public Comments on the Proposed Activity within a Floodplain and Wetland, FONSI and/or NOIRROF: Any individual, group or agency may submit written comments on the Proposed Project. The public is hereby advised to specify in their comments which "notice" their comments address. Comments should be submitted via email, in the proper format, on or before May 15, 2020 at NYSCDBG_DR_ER@nyshcr.org. Written comments may also be submitted at the following address, or by mail, in the proper format, to be received on or before May 15, 2020: Governor's Office of Storm Recovery, 25 Beaver Street, 5th Floor, New York, NY 10004. All comments must be received on or before 5pm on May 15, 2020 or they will not be considered. If modifications result from public comment, these will be made prior to proceeding with the expenditure of funds.

REQUEST FOR RELEASE OF FUNDS AND CERTIFICATION

On or about May 18, 2020, the HCR certifying officer will submit a request and certification to HUD for the release of CDBG-DR funds as authorized by related laws and policies for the purpose of implementing this part of the New York CDBG-DR program.

HCR certifies to HUD that James McAllister, in his capacity as Certifying Officer, consents to accept the jurisdiction of the U.S. federal courts if an action is brought to enforce responsibilities in relation to the environmental review process and that these responsibilities have been satisfied. HUD's approval of the certification satisfies its responsibilities under NEPA and related laws and authorities and allows GOSR to use CDBG-DR program funds.

Objection to Release of Funds: HUD will accept objections to its release of funds and GOSR's certification for a period of fifteen days following the anticipated submission date or its actual receipt of the request (whichever is later). Potential objectors may contact HUD or the GOSR Certifying Officer to verify the actual last day of the objection period. The only permissible grounds for objections claiming a responsible entity's non-compliance with 24 CFR Part 58 are: (a) Certification was not executed by HCR's Certifying Officer; (b) the responsible entity has omitted a step or failed to make a decision or finding required by HUD regulations at 24 CFR Part 58; (c) the responsible entity or has committed funds or incurred costs not authorized by 24 CFR Part 58 before release of funds and approval of environmental certification; or (d) another Federal agency acting pursuant to 40 CFR Part 1504 has submitted a written finding that the project is unsatisfactory from the standpoint of environmental quality.

Objections must be prepared and submitted in accordance with the required procedures (24 CFR Part 58) and shall be addressed to Tennille Smith Parker, Director, Disaster Recovery and Special Issues Division, Office of Block Grant Assistance, U.S. Department of Housing & Urban Development, 451 7th Street SW, Washington, DC 20410, Phone: (202) 402-4649.

James McAllister, Certifying Officer

Appendix E: State Historic Preservation Office Correspondence

NEW YORK STATE OF OPPORTUNITY. | Parks, Recreation, and Historic Preservation

ANDREW M. CUOMO
Governor

ERIK KULLESEID
Commissioner

October 11, 2019

Ms. Angelica Apolinaris
Staff Environmental Planner
H2M engineers and architects
538 Broad Hollow Road
Melville, NY 11747

Re: GOSR
Cedarhurst Pump Station
Hanlon Drive at Peninsula Blvd, Cedarhurst, NY
19PR07131

Dear Ms. Apolinaris:

Thank you for requesting the comments of the State Historic Preservation Office (SHPO). We have reviewed the project 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 potential 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 upon this review, it is the opinion of the New York SHPO that no historic properties, including archaeological and/or historic resources, will be affected by this undertaking.

If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above.

Sincerely,

R. Daniel Mackay

Deputy State Historic Preservation Officer
Division for Historic Preservation