BALDWIN PARK SHORELINE STABILIZATION

3232 GRAND AVENUE, BALDWIN, 11510
TOWN OF HEMPSTEAD, NASSAU COUNTY, NEW YORK

Environmental Review Record

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

JUNE 27, 2019

BALDWIN PARK SHORELINE STABILIZATION

Environmental Review Record

June 27, 2019

Project Name:	Baldwin Park Shoreline Stabilization
Project Location:	Section 54, Block H, Lot 391 (14.6 acres) Baldwin Park, Town of Hempstead, Nassau County, NY, 11510
Federal Agency:	U.S. Department of Housing and Urban Development
Responsible Entity:	Governor's Office of Storm Recovery
Responsible Agency's Certifying Officer:	Lori A. Shirley, Certifying Officer Governor's Office of Storm Recovery 38-40 State Street, Hampton Plaza Albany, New York 12207 (518) 474-0755 Lori.Shirley@nyshcr.org
Project Sponsor: **Primary Contact:**	Town of Hempstead Douglas L. Tuman, P.E., Commissioner 350 Front Street Hempstead, NY 11550 (516) 812-3484 dtuman@tohmail.org
Project NEPA Classification:	24 CFR 58.36 (Environmental Assessment)

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	Lori A Shirley Lori A. Shirley, Certifying Officer

Date: June 27, 2019

Environmental Review Prepared By:	CSA Group, PC 55 Broadway New York, New York 10006	GOSR 500 Bi-County Boulevard 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 2019 NYS CDBG-DR project, Baldwin Park Shoreline Stabilization are:

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.

Lori A Shirley

Signature of Certifying Officer

June 27, 2019
Date

Lori A. Shirley
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 2019 NYS CDBG-DR project, Baldwin Park Shoreline Stabilization Project constitute 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

Lori A Shirley

_____ June 27, 2019

Signature of Certifying Officer Date

Lori A. Shirley Certifying Environmental Officer

Print Name Title

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

The Town of Hempstead is proposing implementation of shoreline improvements within the Town of Hempstead's Baldwin Park located at 3232 Grand Avenue, Baldwin, New York. The Proposed Project was developed to stabilize the property, provide storm surge protection and to improve and expand recreational use of the Park by the public along the waterfront. The Proposed Project site is situated within Section 54, Block H, Lot 391, a 14.6-acre parcel formerly occupied by a Board of Cooperative Education Services (BOCES) School Facility (**see Figure 1 and Figure 2**).

The Proposed Project would include:

- Installation of sediment control/surface water protection devices followed by installation of a temporary cofferdam.
- Removal of 1,600 linear feet of existing and compromised timber bulkhead.
- Rough grading to provide for 1,600 feet of living shoreline. The living shoreline would consist of an armored toe stabilization set at the mean highwater line designed with large revetment stones protecting a stone core.
- In-place and in-kind replacement of approximately 800 linear feet of existing timber bulkhead with approximately 138 new 12-inch diameter timber piles to be installed using an impact hammer along the replacement bulkhead; a vibratory hammer will be utilized to facilitate the installation of new vinyl sheeting. The new bulkhead would be set with a top elevation of 5.25, consistent with the existing timber bulkhead elevation.
- Removal of five existing outfalls and associated catch basins.
- Removal of 36 trees in poor condition to be replaced with 63 trees along the shoreline.
- Construction of an approximately 0.3-acre gravel parking lot near the northern section of the site.
- Construction of an eight-foot wide gravel pedestrian path.
- Construction of a permanent waterfront landing for non-motorized equipment (canoes and kayaks) for use by the public.

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

The purpose of the Proposed Project is to implement storm protection measures along the shoreline of Baldwin Park to minimize further erosion and damage that resulted from Superstorm Sandy and other recent storms. The Proposed Project would also provide public waterfront access at Baldwin Park, as well as access to the South Shore Blueway, enabling residents to enjoy open space and recreational activities. The South Shore Blueway Trail is a network of access points along the South Shore of Long Island to enable people to experience natural scenic beauty while protecting wildlife and habitat. It is part of the South Shore Estuary Reserve and its utilization encourages environmental stewardship and safe use of local back bay waterways.

This property within Baldwin Park is in need of rehabilitation and protection from storm surges and tidal wave activity. The existing timber bulkhead that surrounds the project area exhibits signs of deterioration to the point where the areas upland of the bulkhead are being eroded into the canal and bay in multiple locations due to bulkhead breaches. During times of heavy precipitation, and wave activity, soil erosion into the surrounding waterbodies continues to this day, adversely affecting water quality and potentially navigation. The Proposed Project would help protect both water quality and a key community natural and cultural asset from future flood risk and erosion and reduce the need for recovery resources following a major storm event. Further, the use of a living shoreline and bulkhead to stabilize this upland/water

interface and the re-establishment of marsh vegetation is expected to attenuate wave energy and reduce the risk of flood damage to the surrounding neighborhoods.

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

Baldwin is a hamlet within the Town of Hempstead in Nassau County, New York. It is located in the southwestern part of the county on the South Shore of Long Island. The population was 24,033 at the 2010 census. Baldwin Park is situated at the southern terminus of Grand Avenue in Baldwin Harbor. The Park has administration buildings, athletic facilities including baseball and softball fields, a hockey rink, tennis courts, playground and hiking trails and plenty of maintained open space. During Superstorm Sandy and Hurricane Irene, Baldwin Park and the surrounding area suffered significant damage. Hurricane Irene's heavy wind and rain led to flooding, while Superstorm Sandy caused a ten-foot storm surge at high tide that inundated the Park as well as the surrounding waterfront neighborhoods.

Funding Information

Estimated Total HUD Funded Amount: $4,574,332.

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]**:** $4,574,332.

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 **(Appendix A, Figure 11)**. No impacts would result. No additional review is required. 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 located within a coastal barrier resource area (see **Appendix A, Figure 5**). However, the project involves the in-kind replacement of existing bulkhead and GOSR concluded that it qualifies as an Exception for "the maintenance, replacement, reconstruction, or repair, but not the expansion, of publicly operated roads, structures, or facilities that are essential links in a larger network or system" (16 U.S.C. subsection 3505(a)(6)(F). Consultations were sent to the USFWS regarding the CBRA on February 25, 2019. On May 20, 2019 USFWS responded that GOSR can proceed with the project if it has determined it is an allowable Exception, which has been done. (**Appendix C**) No additional review is 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 Panels 36059C0238G and 36059C0326G), the project site is situated within the 100-year floodplain (see **Appendix A, Figure 3)**. However, flood insurance is not required for the living shoreline/bulkhead project. No additional review is required.

		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 replacement of a deteriorated bulkhead which includes the removal of existing support posts in the water and installation of new, similar support materials as well as a new living shoreline. Delivery of a substantial amount of construction materials and installation of the support posts would require the use of trucks, cranes and pile-driving hammers. 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 $4,574,332.00, which is far below the $410 million threshold; therefore, the Proposed Project would not require further analysis for conformity determination. 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. No additional review is required. 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 located within the boundaries of the New York State Coastal Zone (See **Figure 4**). Baldwin Park is located in the Town of Hempstead, which does not have a Local Waterfront Revitalization Program (LWRP). GOSR sent the NYSDOS a request for a Coastal Zone Management Act Consistency Review on May 21, 2019. On May 25, 2019 the NYSDOS responded with a General Concurrence and No Objection to Funding. (See **Appendix B**). No additional 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 ☒	The Proposed Project site is not situated in or near any documented hazardous waste sites **(Appendix A, Figure 6)**. The Proposed Project site is not located within 3,000 feet of any federally listed Superfund, Brownfield, Toxic Release Inventory (TRI), Toxic Substances Control Act (TSCA), water discharger or Resource Conservation and Recovery Act (RCRA) sites. The project site is not situated on or within 3,000 feet of any site listed on the NYSDEC Remediation database including State Superfund, Brownfield Cleanup, Environmental Restoration and/or Voluntary Cleanup nor any toxic or solid waste landfill. No additional review is required. 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 ☐	According to USFWS IPaC Trust Resource Report, accessed September 10, 2018, there are four threatened species (Northern Long-eared Bat, piping plover, red knot, and seabeach amaranth) and two endangered species (roseate tern and sandplain gerardia) that are potentially associated with habitats near the project site. The official species list for the Proposed Project indicated that there is no critical habitat in the project area. According to the NYS Resource map for Bat Occurrences, no NLEB hibernaculum has been documented within 0.25 mile from 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. The main impact of concern for bats is the removal of potential roost trees. Due to the uncertainty associated with construction dates, there is the potential for active season tree removal. Therefore, GOSR determined that the proposed Project may affect NLEB, but that any resulting incidental take of the NLEB is not prohibited by the final 4(d) rule. On December 17, 2018, and again on February 25, 2019, GOSR submitted notice of the Proposed Project and documentation of Section 7 compliance. The USFWS provided no objection to the determination and on June 18, 2019 GOSR received an email from USFWS acknowledging their receipt of GOSR's "no effect" determination and stating that no further coordination or consultation is needed (see **Appendix C)**. A request for species records within the project area was sent to the New York State Natural Heritage Program (NHP). The consultation response from the NHP indicates that they have no records of rare or state-listed animals or plants at the project site or in its immediate vicinity. However, there is high and low salt marsh in Baldwin Park +adjacent to the west side of the project site. This salt marsh is part of a significant occurrence of salt marsh along the shores of Hempstead Bay. NYSDEC recommended that the project work be carried out in a manner that avoids detrimental impacts to the salt marsh habitat. The removal of the compromised timber bulkhead and establishment of a living shoreline would not adversely affect breeding or nesting activities of rare species. In addition, protective measures for wildlife would be outlined during the permitting process and implemented during construction. Since the Proposed Project involves in-water work, an Essential Fish Habitat Assessment was sent to the National Oceanic and Atmospheric Administration (NOAA), Habitat Conservation Division requesting concurrence of GOSR's determination that the Proposed Project would not jeopardize the continued existence of essential fish species nor destroy or permanently adversely modify their habitat. The Greater Atlantic Regional Fisheries Office responded on June 11 and again on June 13, 2019 that there was no submerged aquatic vegetation (SAV) in the area to be concerned with. A Google Earth map was provided by NOAA with the most recent submerged aquatic vegetation (SAV) map loaded on it, with the project location pinned. (see Appendix C). The bright green patches far to the east are the only SAV beds in the area.

		SAV will not be impacted by the proposed action Therefore, GOSR has determined that the requirements for the Essential Fish Habitat Assessment have been fulfilled. GOSR also conducted an analysis of potential impacts to listed species and critical habitat under the jurisdiction of the National Marine Fisheries Service (NMFS), including sea turtles and fish. The analysis revealed that all effects of the proposed action will be insignificant and/or discountable with the restriction requested by NOAA, which the applicant has agreed to implementing. This is to avoid in-water work from January 15 - May 31 to protect winter flounder early life stages and EFH. Note that as long as the Town of Hempstead installs the cofferdams before January 15 and removes them after May 31, they can work behind the cofferdams at any time. The USFWS Official Species List and agency correspondence relative to rare, threatened and endangered species, natural communities and fish habitat are included as **Appendix C**. No additional review 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 replacement of a deteriorated bulkhead. 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. No additional review is required.
Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes ☐ No ☒	The project site is situated on a parcel formerly occupied by a Board of Cooperative Education Services (BOCES) Facility. Impacts would only occur to soils that have been previously impacted by the former BOCES Facility and construction of the

		original bulkhead. None of site soils are not identified as Prime, Unique, or Statewide Important Farmland pursuant to the U.S. Department of Agriculture (USDA) soil classifications. The Proposed Project is not located within an Agricultural District. Therefore, the Proposed Project would not violate the Farmland Protection Policy Act. No impacts would result. No additional review 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 Maps (FIRM Panels 36059C0238G and 36059C0326G) indicate the project site is situated within the 100-year floodplain (see **Appendix A, Figure 3)**. 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 values. The 8-Step Floodplain and Wetland Management Plan, Early Floodplain and Wetland Notice and Affidavit of mailing are attached (see **Appendix D**). No additional review 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 December 7, 2018, the SHPO indicated that there will be No Historic Properties Affected by the Project (see **Appendix E**, SHPO Correspondence.) GOSR also consulted with Delaware Nation, Delaware Tribe, Shinnecock Nation, Unkechaug and Stockbridge-Munsee Community, Band of the Mohicans. No objections from Tribal nations were received (see **Appendix F)**. Therefore, no adverse impacts are anticipated. No additional review 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 the replacement of an active road 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. No additional review is required. 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 here are none such wells, consultation with EPA is not required. No additional review is required. http://www.epa.gov/region02/water/aquifer/brooklyn/brooklyn.htm
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes ☒ No ☐	The Proposed Project is located within tidally influenced wetlands of Middle Bay which are classified by the National Wetlands Inventory as Estuarine-Marine Deepwater Wetland (see **Appendix A, Figure 8**). The Proposed Project will result in less than 1.50 acres of temporary impacts during construction and less than 0.17 acres of permanent impacts to NWI mapped wetlands. In addition, approximately 1.5 acres of high and low marsh wetlands will be created from the establishment of the living shoreline. Prior to construction, the contractor will obtain Nationwide Permit Nos 3 (maintenance of an existing structure) and 36 (waterfront landing). The 8-Step Floodplain and Wetland Management Plan, Early Floodplain and Wetland Notice and Affidavit of mailing are attached (see **Appendix D**). No additional review 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 additional review is required. http://www.rivers.gov/maps/conus.php
ENVIRONMENTAL JUSTICE		
Environmental Justice Executive Order 12898	Yes ☐ No ☒	The proposed 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**). This

		project will 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 of 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. All proposed project actions are consistent with existing land use and zoning. The proposed project would not result in the creation of new 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	Minor beneficial impact anticipated. The existing timber bulkhead which surrounds the project area exhibits signs of deterioration to the point where the areas upslope of the bulkhead are being eroded in multiple locations due to bulkhead breaches. During times of heavy precipitation, soil erosion into the surrounding waterbodies continues to this day, adversely affecting water quality. The Proposed Project would curb this erosion which would help protect the park from future erosion as well as flood risk. Stormwater runoff will be directed to the inland area where it will be allowed to percolate slowly through the soil. Appropriate soil erosion and sediment control best management practices as developed through NYSDEC the State Pollution Discharge

		Elimination System (SPDES will be implemented during construction activities).
Hazards and Nuisances including Site Safety and Noise	2	No impact anticipated. The Project site is situated in the 100-year flood hazard area. No other known natural hazards, including earthquake fault zones, landslide zones, or hazardous terrain, are at or near the Project site. There are no underground storage tanks identified near the project area. The Project involves the demolition of the existing bulkhead, so there may be hazards associated with original materials used for construction. However, the project applicant has committed to abatement and disposal of any hazardous materials in accordance with applicable regulations. The proposed project would not involve the use nor or storage of any toxic chemicals or radioactive materials. 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	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 increase long-term energy consumption. The proposed project consists of the replacement of a deteriorated bulkhead, and therefore, operation of the proposed project would not have any impact on 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. Operation of the proposed project would not result in any changes to existing employment opportunities or impact income patterns.
Demographic Character Changes, Displacement	1	Minor beneficial impact anticipated. The proposed project would not result in the creation of new 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. Any

		disruption to surrounding areas will be limited to temporary construction activities. Minor beneficial impacts to the area's character would result construction of the living shoreline which would replace the deteriorated bulkheads as well as construction of a permanent waterfront landing for non-motorized equipment (canoes and kayaks) for use by the public.

Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILITIES AND SERVICES		
Educational and Cultural Facilities	2	No adverse impacts to existing educational and cultural facilities are anticipated. The proposed project would not result in the creation of new permanent jobs and therefore would not increase demand on educational facilities. The proposed project is not located within or adjacent to a cultural facility and therefore would not adversely impact cultural facilities.
Commercial Facilities	2	No impacts anticipated. The proposed project would not result in the creation of new jobs and therefore would not increase demand on commercial facilities nor have any adverse effects on existing 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. Replacement of he bulkhead would result in the generation of waste, primarily deteriorated wood pilings and some vegetation. The amount of solid waste generated from construction would not significantly increase short-term generation of municipal solid waste. All waste would be hauled off-site by the selected contractor and would be handled in accordance with the State's solid and hazardous waste rules.
Waste Water / Sanitary Sewers	2	No impacts anticipated. The proposed project would not involve any waste water or sanitary sewers.
Water Supply	2	No impacts anticipated. Operation of the proposed project would not generate any additional demand for water nor have any adverse effects on existing facilities.
Public Safety - Police, Fire and Emergency Medical	2	Minor beneficial impacts anticipated. The proposed project would not result in the creation of new jobs and therefore would not increase demand on police protection, fire protection, or emergency medical services nor have any adverse effects on existing facilities.
Parks, Open Space and Recreation	1	Minor beneficial impacts anticipated. The proposed project includes construction of a gravel parking lot near the northern section of the site, an eight-foot wide gravel pedestrian path, and a permanent waterfront landing for non-motorized equipment (canoes and kayaks) for use by the public. The addition of these features would have beneficial impacts to the residents of Baldwin Park as well as visitors to the area. The proposed project

		will serve to increase access to the Park as well as the surrounding South Shore Bluebelt's natural resources.
Transportation and Accessibility	2	The proposed project would not generate any additional demand for transportation nor will it have any adverse effects on existing facilities.

Environmental Assessment Factor	Impact Code	Impact Evaluation
NATURAL FEATURES		
Unique Natural Features, Water Resources	1	Minor beneficial impacts anticipated. The proposed project would prevent the continued erosion of soil into the surrounding waterways including Middle Bay and the Oakwood Canal. Stopping the erosion will result in the enhancement of water quality in this area.
Vegetation, Wildlife	1	The proposed project involves the removal of 1,600 linear feet of existing and compromised timber bulkhead to be replaced by a living shoreline. The living shoreline will make the shoreline more resilient while providing habitat through the installation of low and high marsh plantings. Approximately 36 existing trees will require removal, however, an additional 64 trees will be planted in their place. The official species list for the Proposed Project indicated that there is no critical habitat in the project area. GOSR submitted notice of the Proposed Project and documentation of Section 7 compliance to the United States Fish and Wildlife Service (USFWS). Since the Proposed Project involves in-water work, an Essential Fish Habitat Assessment was sent to the National Oceanic and Atmospheric Administration (NOAA), Habitat Conservation Division requesting concurrence of GOSR's determination that the Proposed Project would not jeopardize the continued existence of essential fish species nor destroy or permanently adversely modify their habitat. GOSR determines that the requirements for the Essential Fish Habitat Assessment have been fulfilled. A request for species records within the vicinity of the project area was sent to the New York State Natural Heritage Program (NYSNHP). The consultation response from the NHP indicates that they have no records of rare or state-listed animals or plants at the project site or in its immediate vicinity. The removal of the compromised timber bulkhead and establishment of a living shoreline would not adversely affect breeding or nesting activities of rare species. In fact, it will create habitat for wildlife. Protective measures for wildlife would be implemented during construction. This will include the seasonal restriction for in-water work from January 15 – May 31, unless the work is done behind a cofferdam installed prior to January 15.
Other Factors	2	There are no other factors applicable to the proposed project.

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
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
National Wild and Scenic Rivers System http://www.rivers.gov/maps/conus.php
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
Town of Hempstead Contract Drawings for Shoreline Stabilization Baldwin Harbor Park January 2018
Town of Hempstead Baldwin Harbor Park Drawings March 2018
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 Permits Obtained or Required or Involved Agencies:
Floodplain development permit issued by the Local Floodplain Administrator
NYSDEC SPDES general permit for stormwater discharges from construction activity
NYSDEC Article 15 – Title V Excavation and Fill in Navigable Waters
NYSDEC Article 25 – Title Wetlands Permit
NYSDEC Section 401 Water Quality Certification
USACE Section 404 of the Clean Water Act Permit (NWP #3 and 36)

Cumulative Impact Analysis [24 CFR 58.32]**:**
The Baldwin park Shoreline Stabilization Project would not be 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 would be a mitigation of existing conditions by increasing resiliency during storm events and enhancing the factors cited above.

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

Proposed Project
As described in this EA, the proposed project comprises the removal of 1,600 feet of existing and compromised timber bulkhead to be replaced by a living shoreline. The living shoreline would consist of an armored toe stabilization set at the mean highwater line designed with large revetment stones protecting a stone core. The living shoreline will make the shoreline more resilient while minimizing the number of hard features through use of low and high marsh plantings. In addition, approximately 800 linear feet of existing timber bulkhead would be replaced with new timber pilings. The proposed project would also involve the construction of an approximately 0.3-acre gravel parking lot near the northern section of the site, an eight-foot wide gravel pedestrian path, and a permanent waterfront landing for non-motorized equipment (canoes and kayaks) for use by the public. The proposed project is needed to protect Baldwin Park from storm surges and tidal wave activity.

Alternative Site Analysis
The proposed project involves the in-kind replacement of a bulkhead that has been in place for many years. There is no Alternative for the Proposed Action.

No Action Alternative [24 CFR 58.40(e)]:

A No Action alternative is not proposed as it does not adequately achieve the goal of ensuring the protection of the shoreline of Baldwin Park. Under the No Action alternative, erosion and flooding would continue to occur during future storm events and water quality of the Oakwood Canal and surrounding Hempstead Bay will continue to suffer. The No Action alternative would result in continued negative environmental and accessibility impacts in the area.

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 shoreline structures protecting Baldwin Park need replacement in order to provide protection from storm surges and tidal wave activity. The existing timber bulkheads that surround the project area exhibit signs of deterioration to the point where the areas upslope of the bulkhead are continually eroded. During times of heavy precipitation, soil erosion into the surrounding waterbodies continues adversely affecting water quality. The proposed project would help protect both water quality and a key community natural and cultural asset from future flood risk and erosion and reduce the need for recovery resources following a major storm event. Further, stabilization of these shorelines and the re-establishment of marsh vegetation is expected to attenuate wave energy and reduce the risk of flood damage to the surrounding neighborhoods. The proposed project would not result in adverse impacts on the quality of the human environment, rather it would serve to enhance quality of life by providing new amenities at an existing park, which serves as an access point to the Bluebelt.

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 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. Although archaeological resources are not expected to exist in the immediate project area, unanticipated discoveries may occur. If ground-disturbing activities uncover archeological or historic resources the Subrecipient and their contractor must suspend activities in the vicinity of the discovery, protect the site from any further disturbance, and notify GOSR and SHPO.

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

Summarize 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/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.
Contamination and Toxic Substances	All Project-related solid waste generated will be managed and transported in accordance with the NYS solid and hazardous waste rules.
Water Resources and Floodplain Management	No adverse impacts, as all applicable NYC/construction codes and design guidelines would be followed. The applicant is responsible for coordinating the project with the local floodplain management administrator.
Tidal Wetlands	All work will be completed in accordance with local, state and federal permit requirements which include measures that are protective of wetlands.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	BMPs, such as silt fence and erosion prevention, will be used, if required by permits or agency discretion. State and local permitting requirements will incorporate BMPs to eliminate erosion impacts during construction.
Permit Requirements	All permit conditions listed above or otherwise required for activities under the proposed project must be adhered to.

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: June 27, 2018

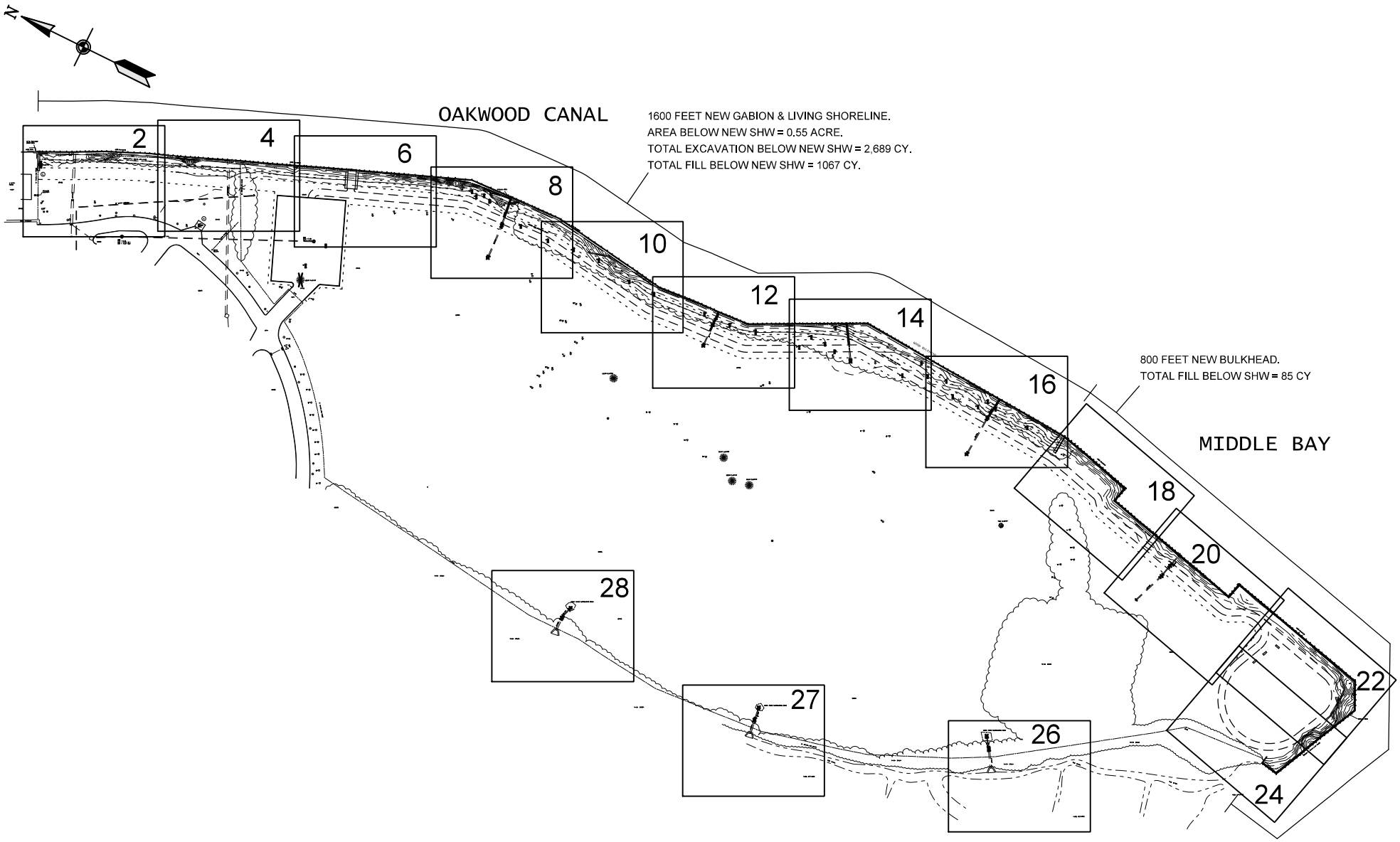
Name/Title/Organization: Cristy L. Boyd, CSA Group

Certifying Officer Signature: Lori A Shirley Date: June 27, 2019

Name/Title: Lori A. Shirley, Certifying 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



NO.	DATE	REVISIONS

In Charge:	D.L.T.
Compilation:	J.M.T.
Design:	J.M.T.
Drawn:	J.M.T.
Checked:	J.M.T.
Reviewed:	D.L.T.

PLAN NOTES:

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BALDWIN HARBOR PARK KEY MAP

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 200'
Date:	NOV. 2018
File No.:	
Dwg No.:	
Sheet No.:	1 of 30

NOTE: EXISTING SHW, MHW, & MLW ARE SEAWARD OF EXISTING BULKHEAD.
ALL PROPOSED WORK TO BE DONE LANDWARD OF EXISTING BULKHEAD.

OAKWOOD CANAL

SAWCUT EXISTING BULKHEAD SHEETING AND PILING TO ELEVATION 0.0.
REMOVE EXISTING BULKHEAD ANCHORING.

BULKHEAD OUTFALL
INV = -0.34 W/CAGE

PROVIDE NEW GABIONS.
117 CY FILL BELOW NEW SHW.
SEE DETAIL SHEET 29.

PROVIDE COFFERDAM.
ITEM 98X.

MATCHLINE
SEE SHEET 4

METAL BULKHEAD
UNDER DECK
-6.3 *

EXISTING MLW EL = -2.28
EXISTING MHW = 1.95
EXISTING SHW EL = 2.95

WOOD RAMP

WOOD BULKHEAD

TB = 5.3

TB = 5.2

TB = 5.4

GATE

REMOVAL BELOW NEW MHW
11.0' X 176.0' (214 CY)

NEW MHW EL = 1.95

NEW SHW EL = 2.95

REMOVE
EXISTING
TREE.

CLUSTER

IRREGULAR 6' CHAIN LINK FENCE

PROVIDE CLEARING AND GRUBBING.

PROVIDE NEW LIVING SHORELINE.
SEE DETAIL SHEET 29.

REMOVE EXISTING FENCE.

6' CHAIN LINK FENCE

GRASS

GRASS

PROVIDE NEW TREE. (TYP.)

RESTORATION LIMIT LINE.

TYPICAL CROSS SECTION
SEE SHEET 3

DRAINAGE
EASEMENT

10.00'

24"X38" ERCP

8" WATER (APPROX)

SIDEWALK

NO.	DATE	REVISIONS

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TOWN OF HEMPSTEAD, N.Y.
FOUNDED 1644
Department of Engineering

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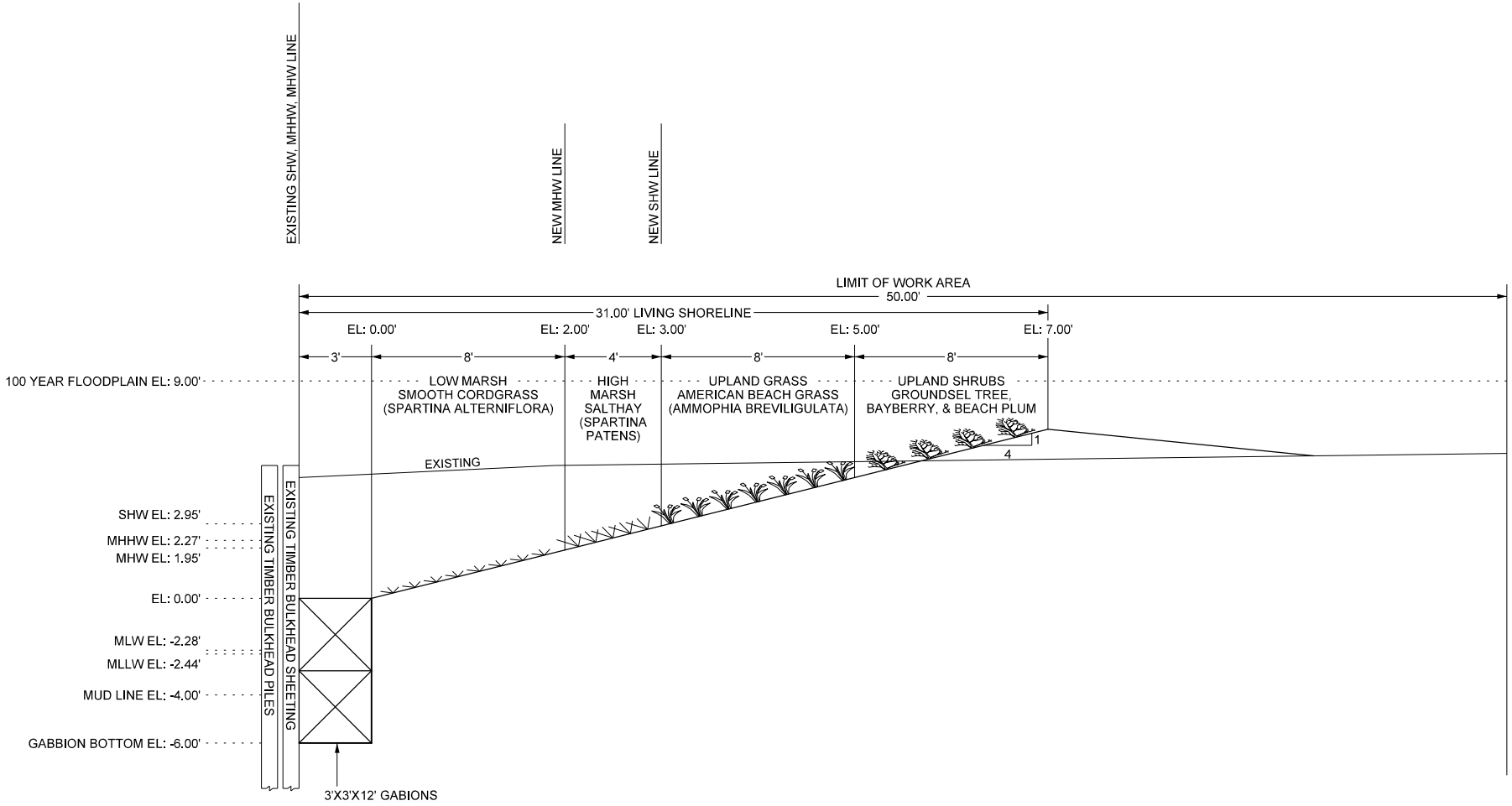
BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	NOV. 2018
File No.:	
Dwg No.:	
Sheet No.:	2 of 30



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Checked:	J.M.T.
Reviewed:	D.L.T.

TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
Department of Engineering

BALDWIN HARBOR PARK CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 3 of 30

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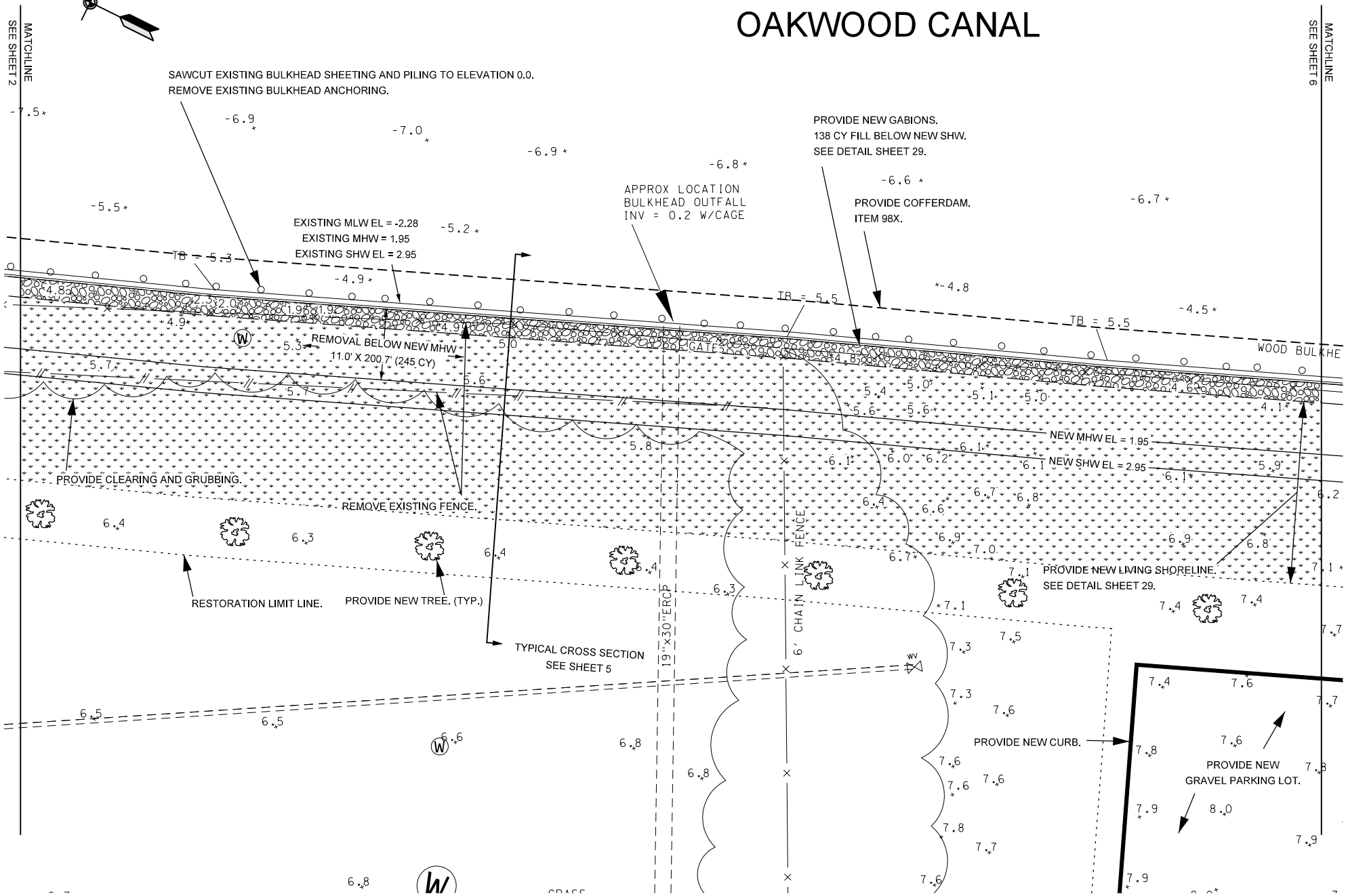
ALL PROPOSED WORK TO BE DONE LANDWARD OF EXISTING BULKHEAD.

OAKWOOD CANAL



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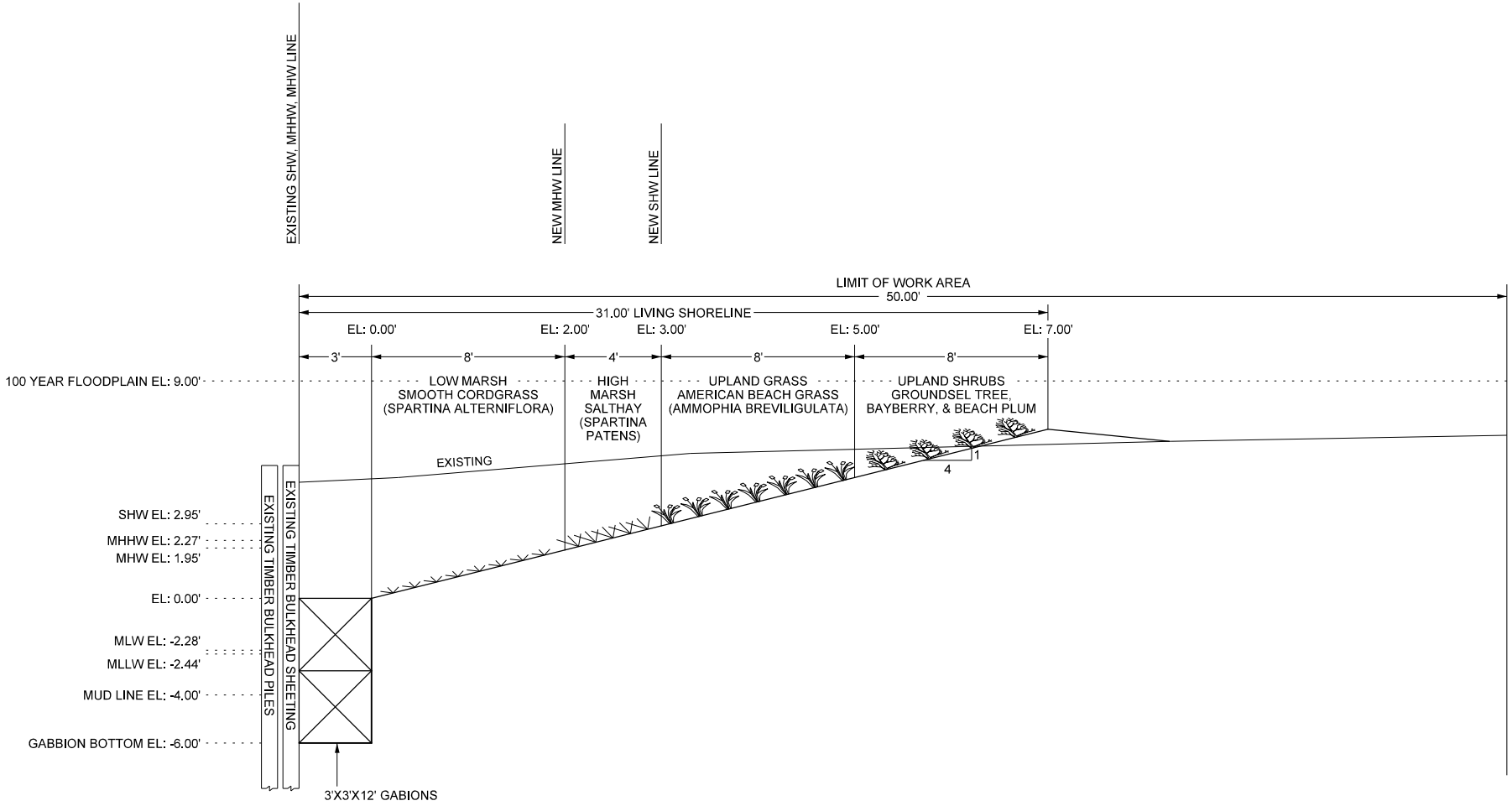
BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	NOV. 2018
File No.:	
Dwg No.:	
Sheet No.:	4 of 30



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Reviewed:	D.L.T.

TOWN OF HEMPSTEAD, N.Y. FOUNDED 1644
Department of Engineering

BALDWIN HARBOR PARK CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 5 of 30

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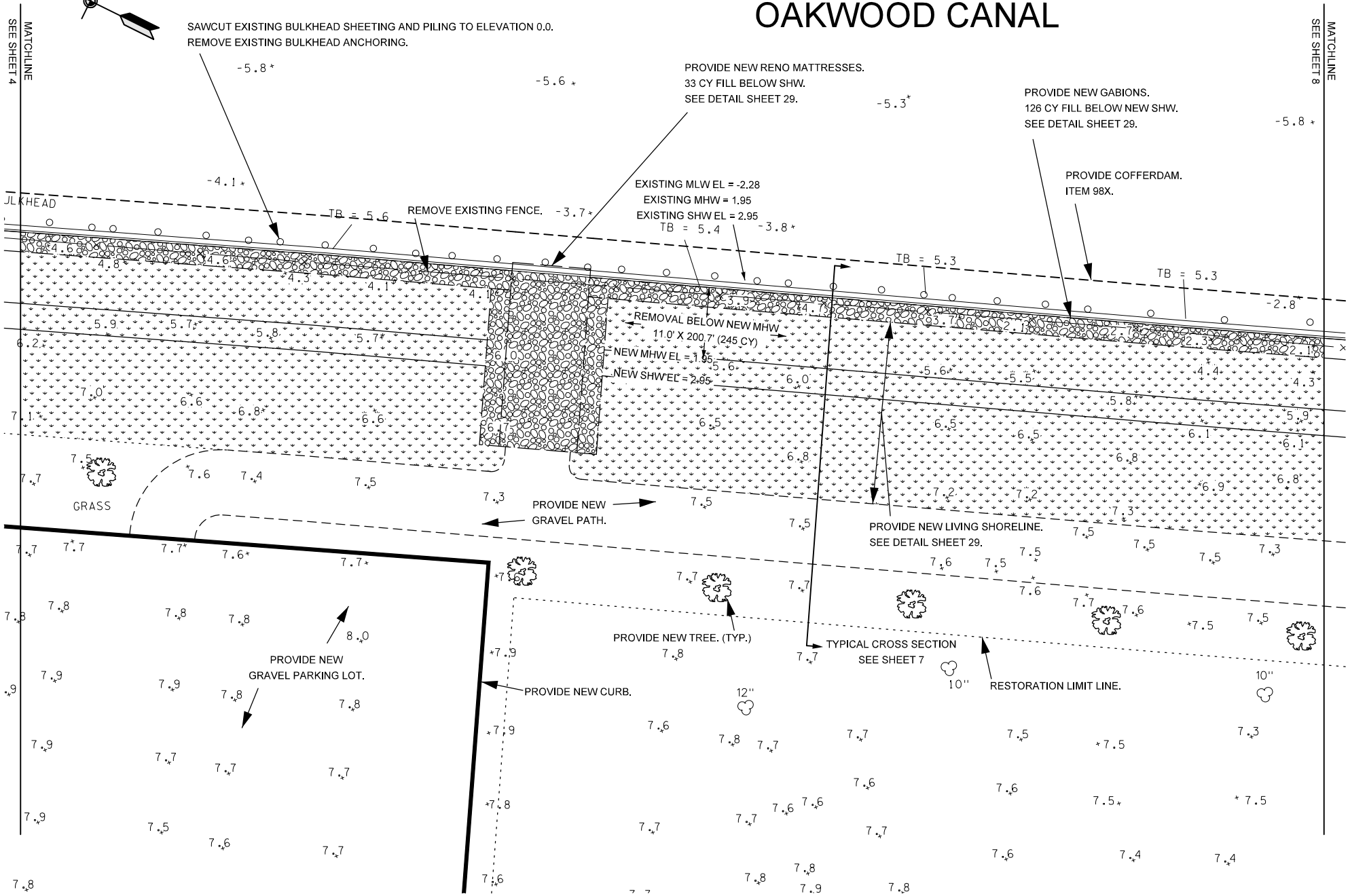
OAKWOOD CANAL



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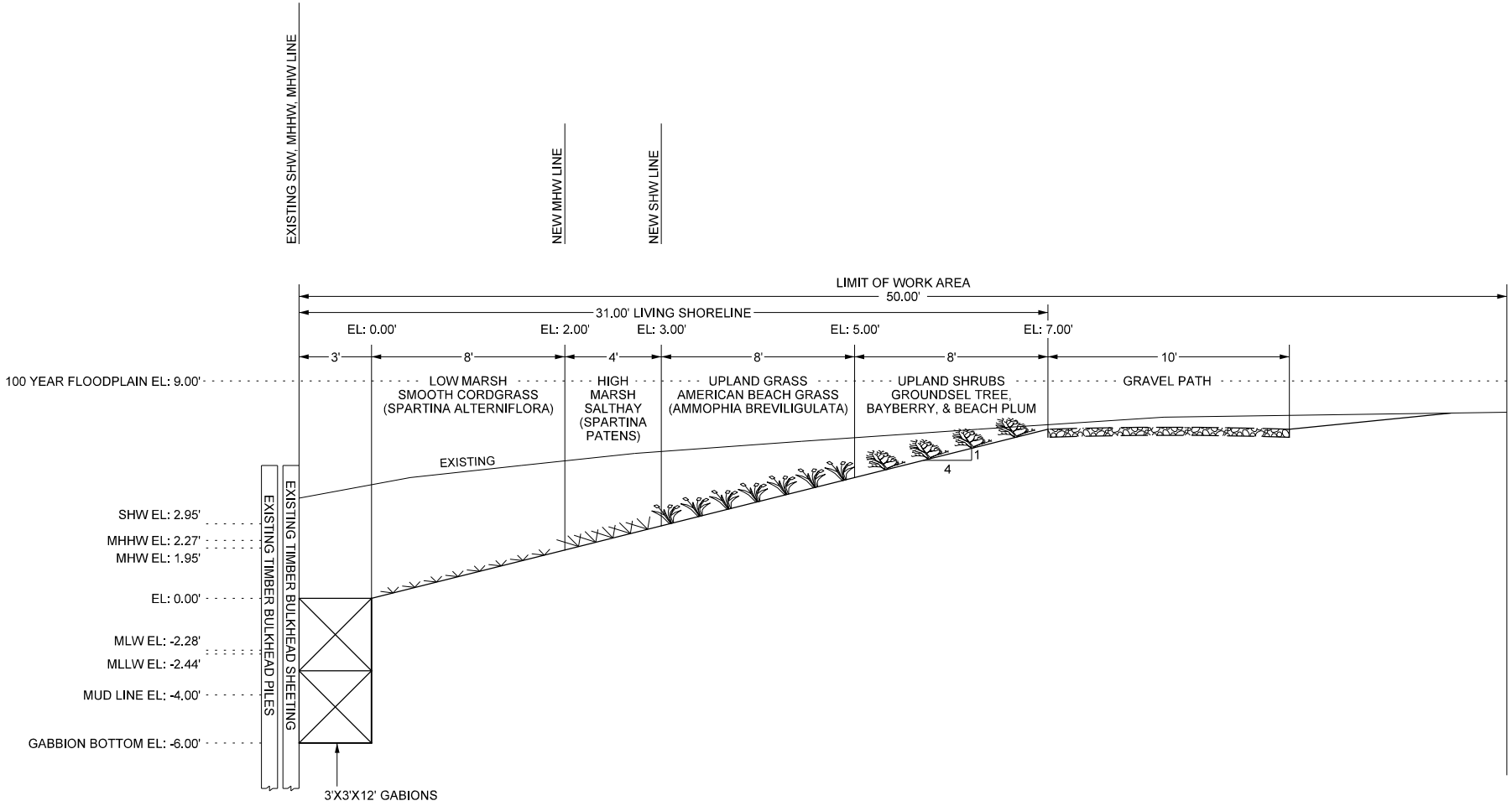
BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	NOV. 2018
File No.:	
Dwg No.:	
Sheet No.:	6 of 30



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TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
Department of Engineering

BALDWIN HARBOR PARK CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 7 of 30

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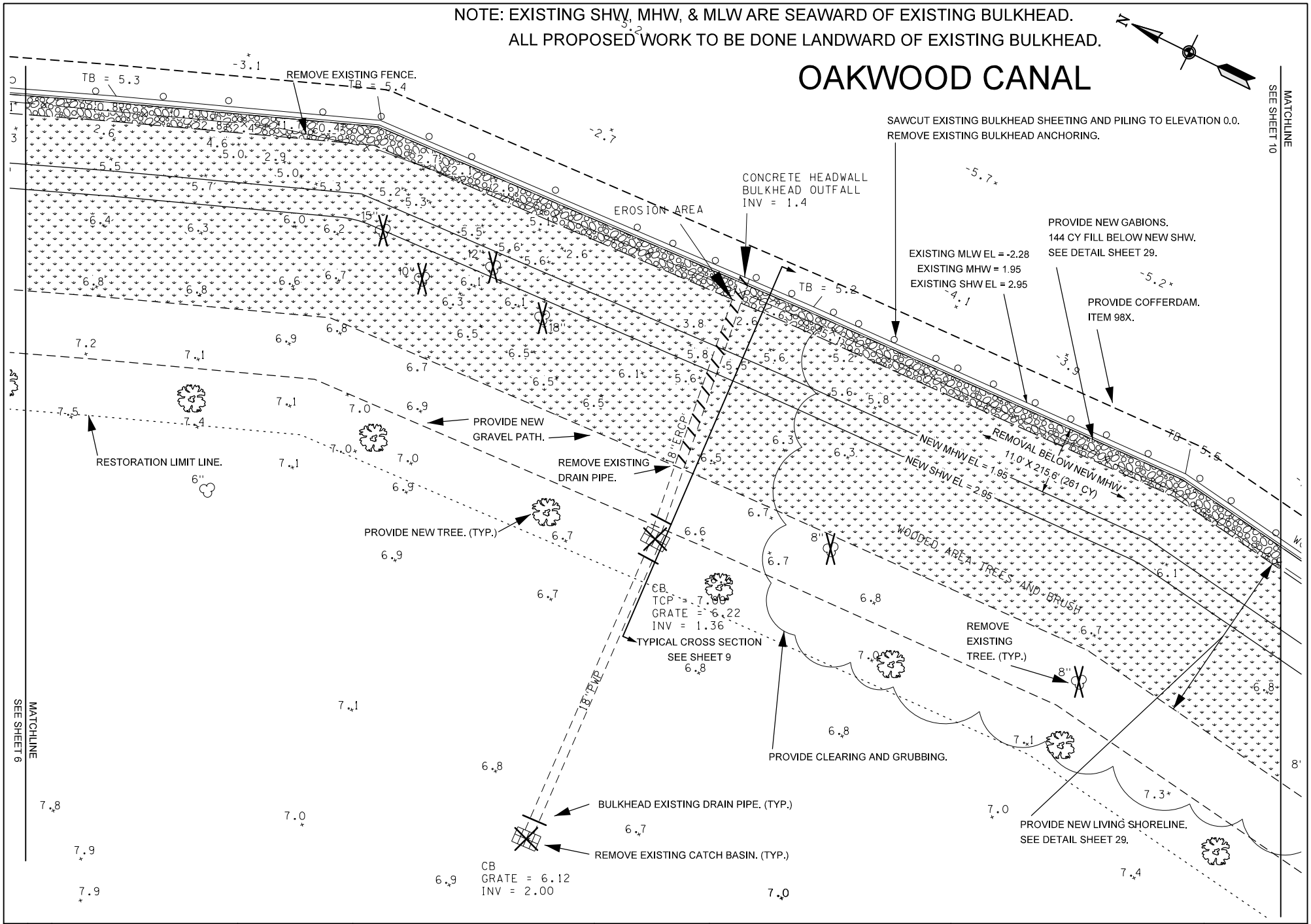
OAKWOOD CANAL



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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	NOV. 2018
File No.:	
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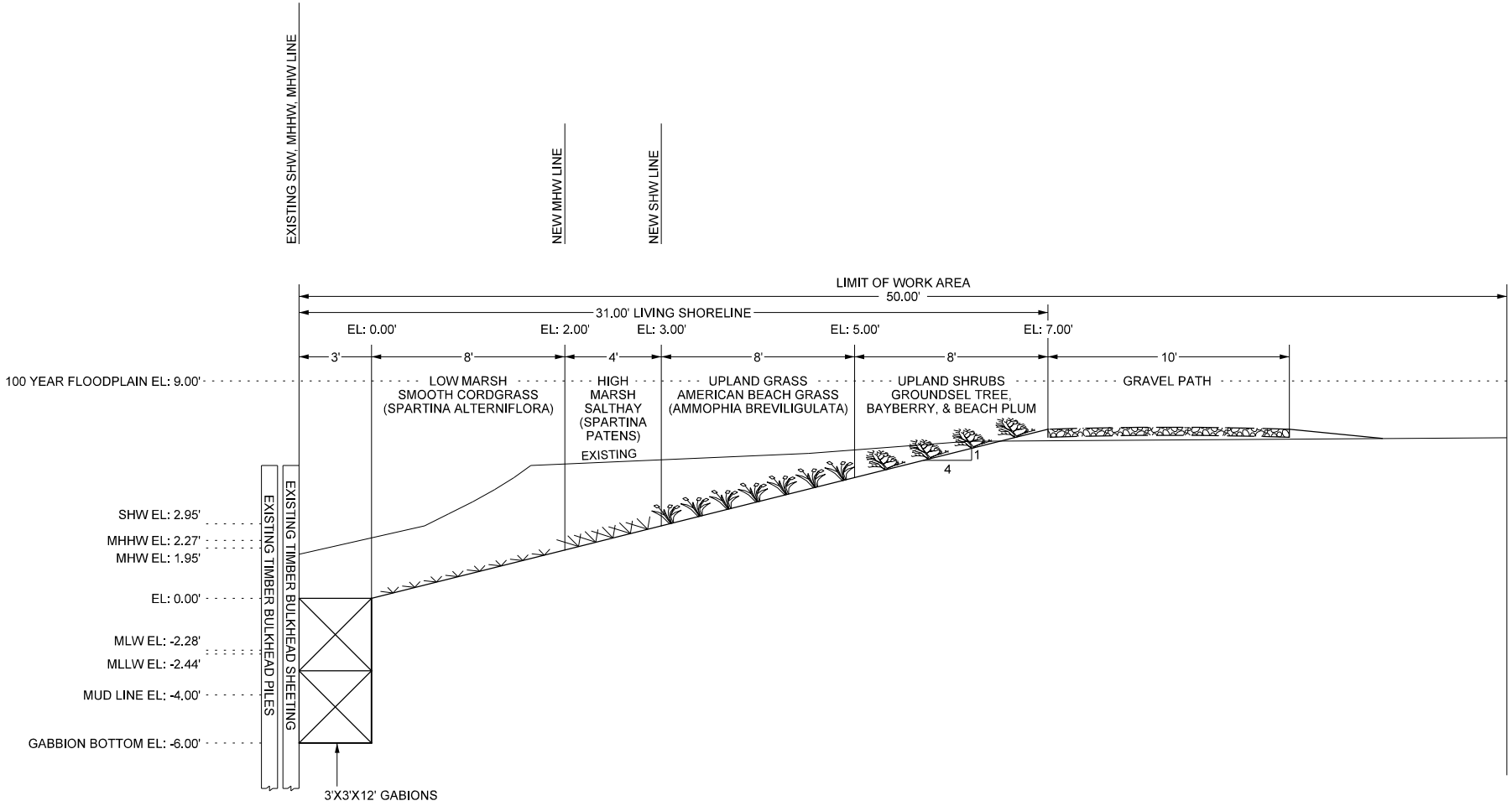
Sheet No.:	8 of 30



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TOWN OF HEMPSTEAD, N.Y. FOUNDED 1644
Department of Engineering

BALDWIN HARBOR PARK CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 9 of 30

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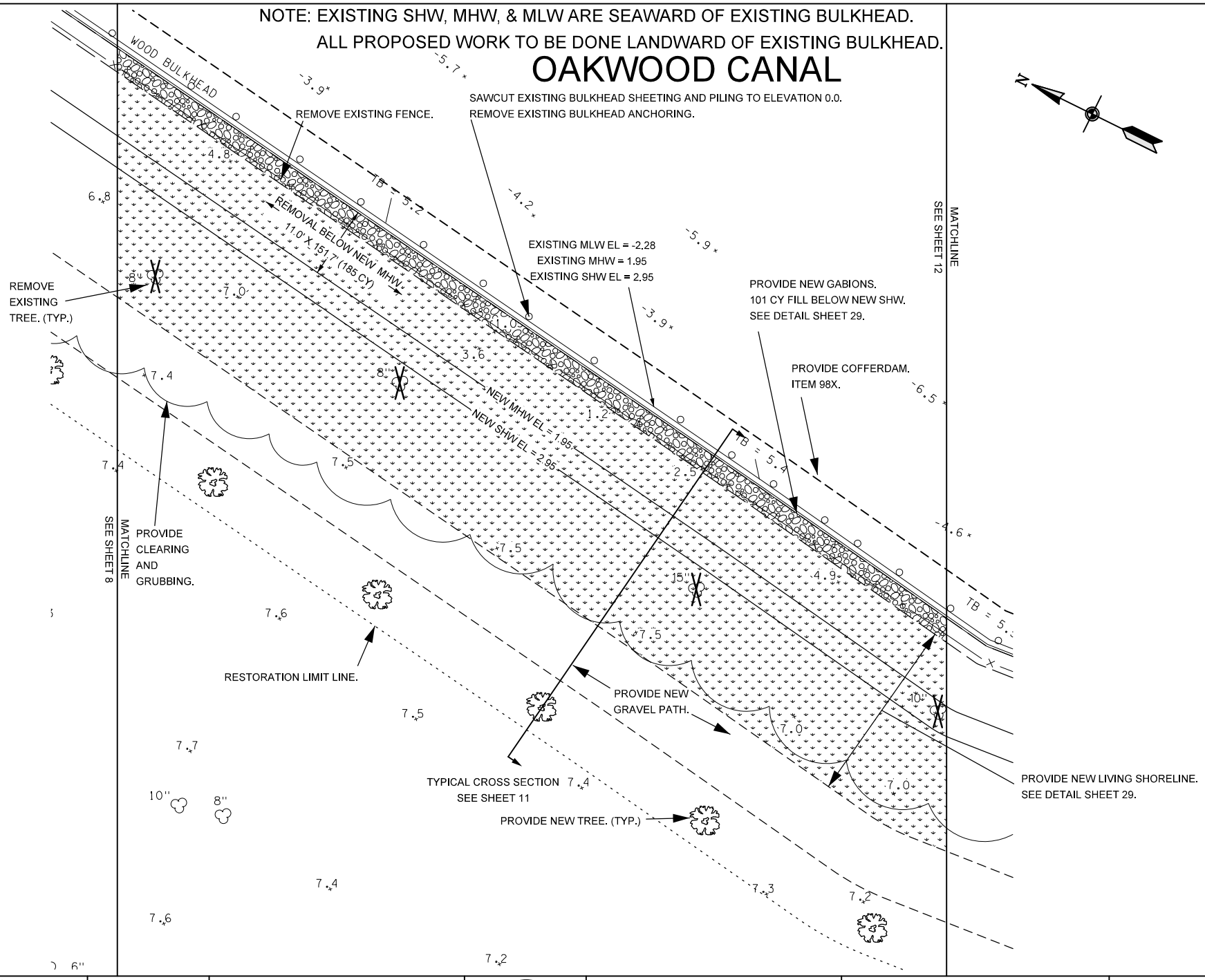

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TOWN OF HEMPSTEAD, N.Y. FOUNDED 1644
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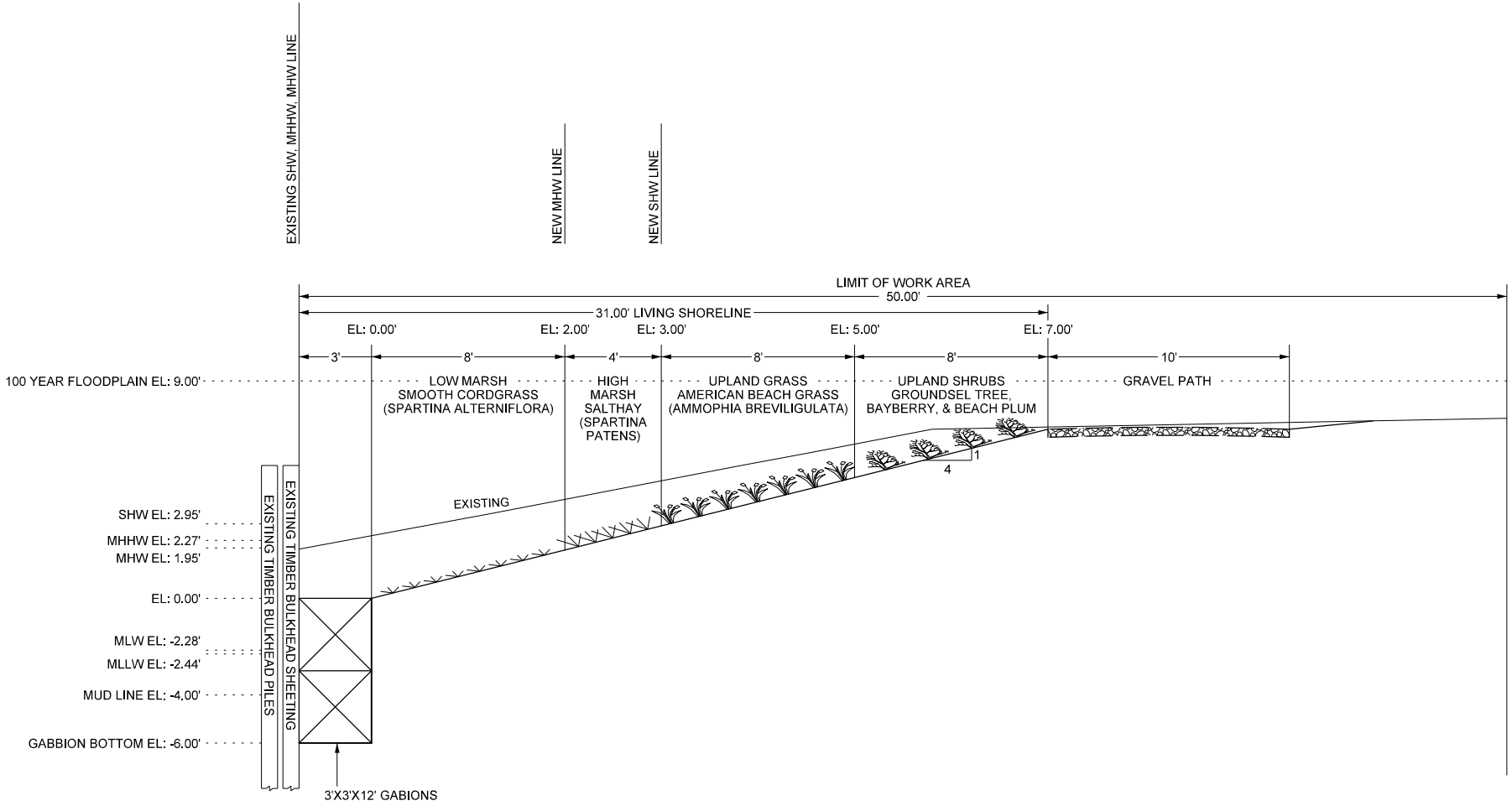
BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	NOV. 2018
File No.:	
Dwg No.:	
Sheet No.:	10 of 30



NO.	DATE	REVISIONS

In Charge:	D.L.T.
Compilation:	J.M.T.
Design:	J.M.T.
Drawn:	J.M.T.
Checked:	J.M.T.
Reviewed:	D.L.T.

TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
Department of Engineering

BALDWIN HARBOR PARK CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 11 of 30

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OAKWOOD CANAL

MATCHLINE SEE SHEET 14

MATCHLINE SEE SHEET 10

EXISTING MLW EL = -2.28
EXISTING MHW = 1.95
EXISTING SHW EL = 2.95

SAWCUT EXISTING BULKHEAD SHEETING AND PILING TO ELEVATION 0.0.
REMOVE EXISTING BULKHEAD ANCHORING.

PROVIDE NEW GABIONS.
141 CY FILL BELOW NEW SHW.
SEE DETAIL SHEET 29.

PROVIDE COFFERDAM.
ITEM 98X.

REMOVAL BELOW NEW MHW
110' X 211.7' (258 CY)
NEW MHW EL = 1.95
NEW SHW EL = 2.95

APPROX LOCATION
BULKHEAD OUTFALL
INV = 1.38

PROVIDE CLEARING AND GRUBBING.

REMOVE EXISTING FENCE.

REMOVE EXISTING TREE. (TYP.)

NOT FOUND

BULKHEAD EXISTING DRAIN PIPE. (TYP.)

REMOVE EXISTING DRAIN PIPE.

TYPICAL CROSS SECTION
SEE SHEET 3

CB
TCP = 6.61
GRATE = 5.90
BOTTOM = 1.6
PLUGGED

PROVIDE NEW LIVING SHORELINE.
SEE DETAIL SHEET 29.

PROVIDE NEW GRAVEL PATH.

REMOVE EXISTING CATCH BASIN. (TYP.)

PROVIDE NEW TREE. (TYP.)

RESTORATION LIMIT LINE.

GRASS

NO.	DATE	REVISIONS

In Charge:	D.L.T.
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Checked:	J.M.T.
Reviewed:	D.L.T.

TOWN OF HEMPSTEAD, N.Y. FOUNDED 1644
Department of Engineering

PLAN NOTES:

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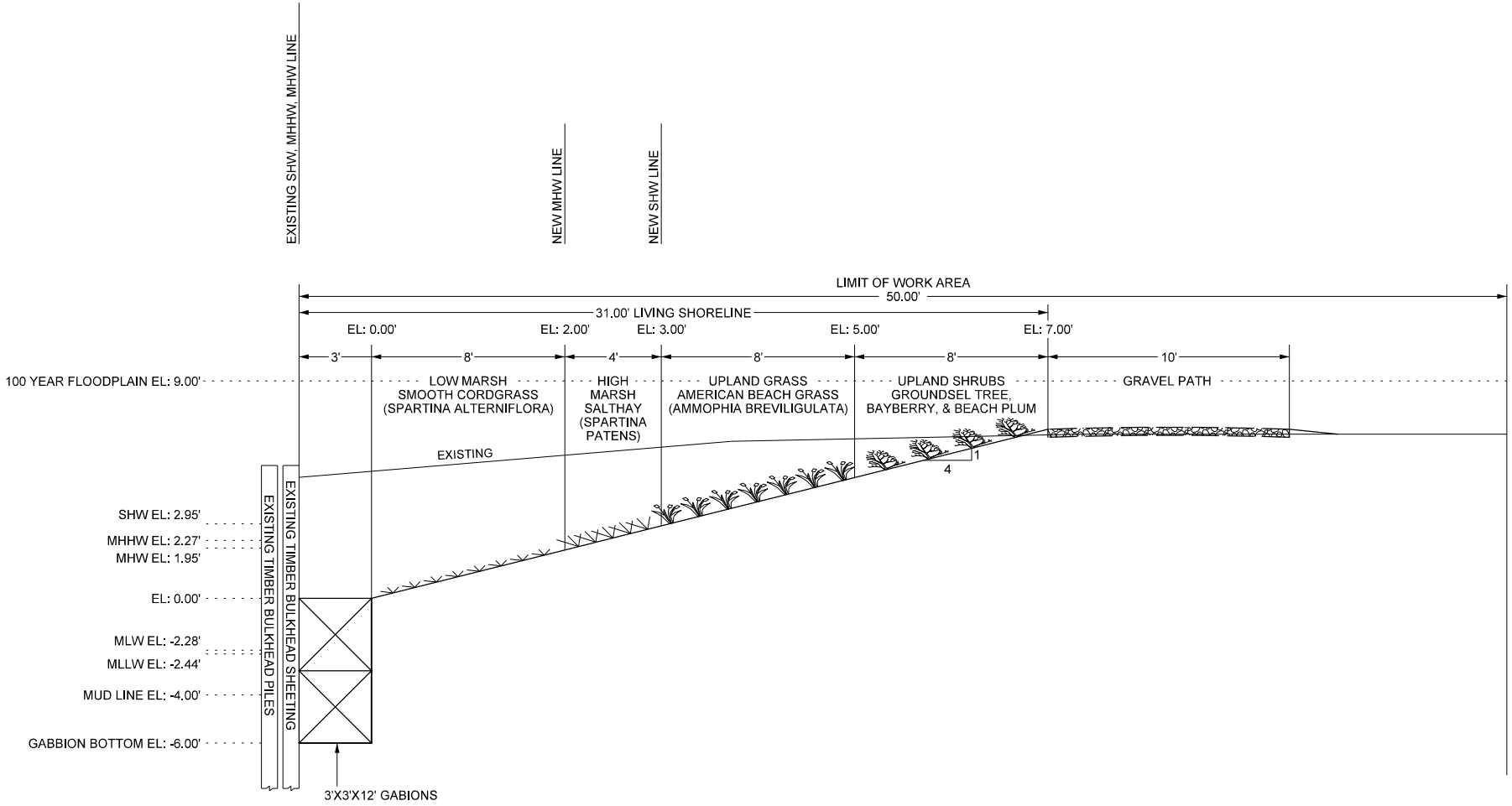
BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	NOV. 2018
File No.:	
Dwg No.:	
Sheet No.:	12 of 30



NO.	DATE	REVISIONS

In Charge:	D.L.T.
Compilation:	J.M.T.
Design:	J.M.T.
Drawn:	J.M.T.
Checked:	J.M.T.
Reviewed:	D.L.T.

TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
Department of Engineering

BALDWIN HARBOR PARK CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 13 of 30

NOTE: EXISTING SHW, MHW, & MLW ARE SEAWARD OF EXISTING BULKHEAD.
ALL PROPOSED WORK TO BE DONE LANDWARD OF EXISTING BULKHEAD.

OAKWOOD CANAL

SAWCUT EXISTING BULKHEAD SHEETING AND PILING TO ELEVATION 0.0.
REMOVE EXISTING BULKHEAD ANCHORING.

EXISTING MLW EL = -2.28
EXISTING MHW = 1.95
EXISTING SHW EL = 2.95

APPROX LOCATION
BULKHEAD OUTFALL
INV = 2.50

REMOVE EXISTING FENCE.

TB = 5.3

REMOVAL BELOW NEW MHW
11.0' X 214.0' (261 CY)

NEW MHW EL = 1.95

NEW SHW EL = 2.95

PROVIDE NEW GABIONS.
143 CY FILL BELOW NEW SHW.
SEE DETAIL SHEET 29.

PROVIDE COFFERDAM.
ITEM 98X.

PROVIDE NEW LIVING SHORELINE.
SEE DETAIL SHEET 29.

MATCHLINE
SEE SHEET 16

WOOD BULKH

WOODED AREA TREES AND BRUSH

REMOVE EXISTING
DRAIN PIPE.

18" RCP

PROVIDE NEW
GRAVEL PATH.

REMOVE
EXISTING
TREE. (TYP.)

BULKHEAD EXISTING
DRAIN PIPE.

CB
GRATE = 5.85

TYPICAL CROSS SECTION
SEE SHEET 15

RESTORATION LIMIT LINE.

PROVIDE
CLEARING
AND
GRUBBING.

REMOVE EXISTING CATCH BASIN.

PROVIDE NEW TREE. (TYP.)

MATCHLINE
SEE SHEET 12

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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
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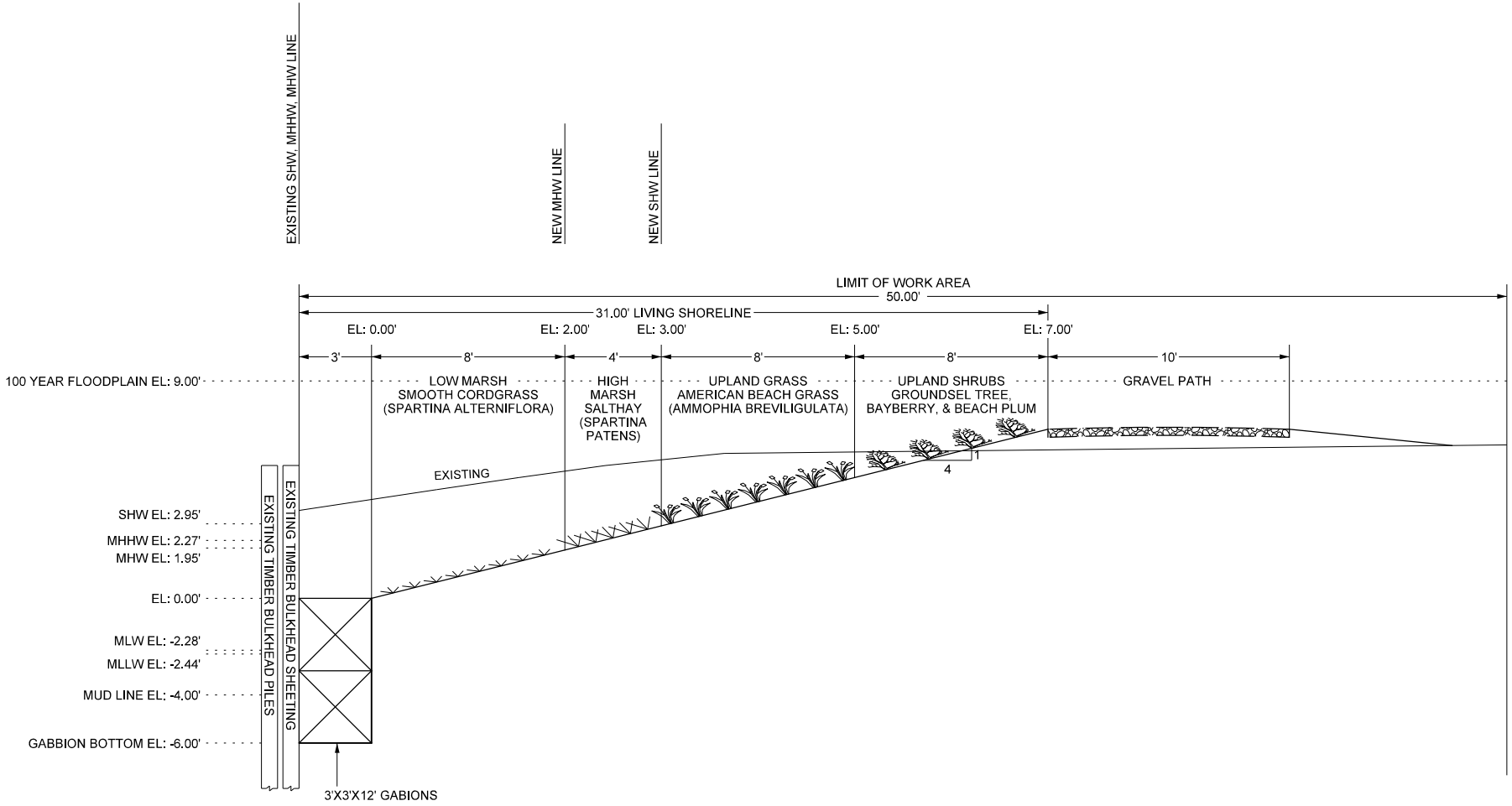

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BALDWIN HARBOR PARK CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
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Sheet No.: 15 of 30

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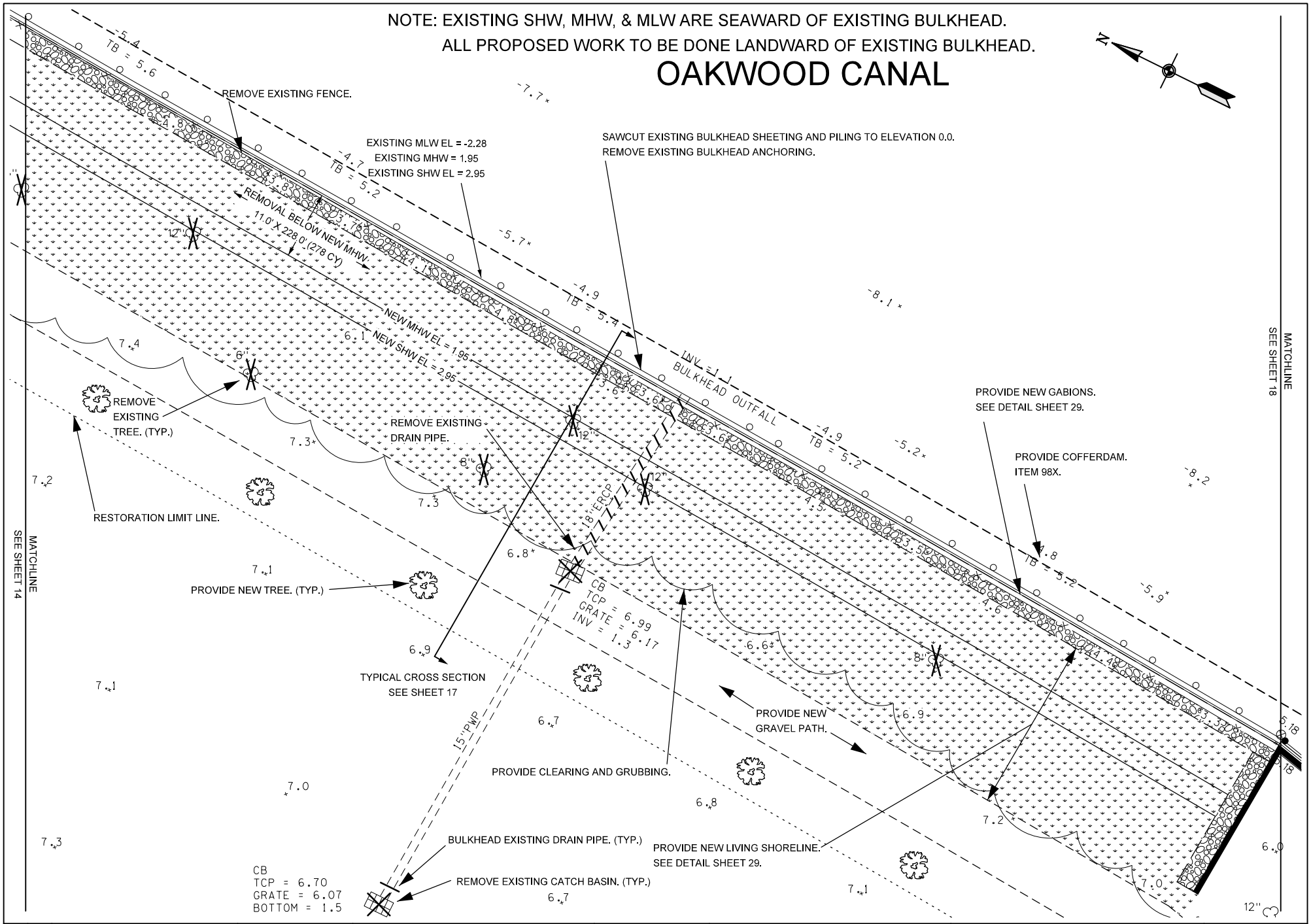
OAKWOOD CANAL



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SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
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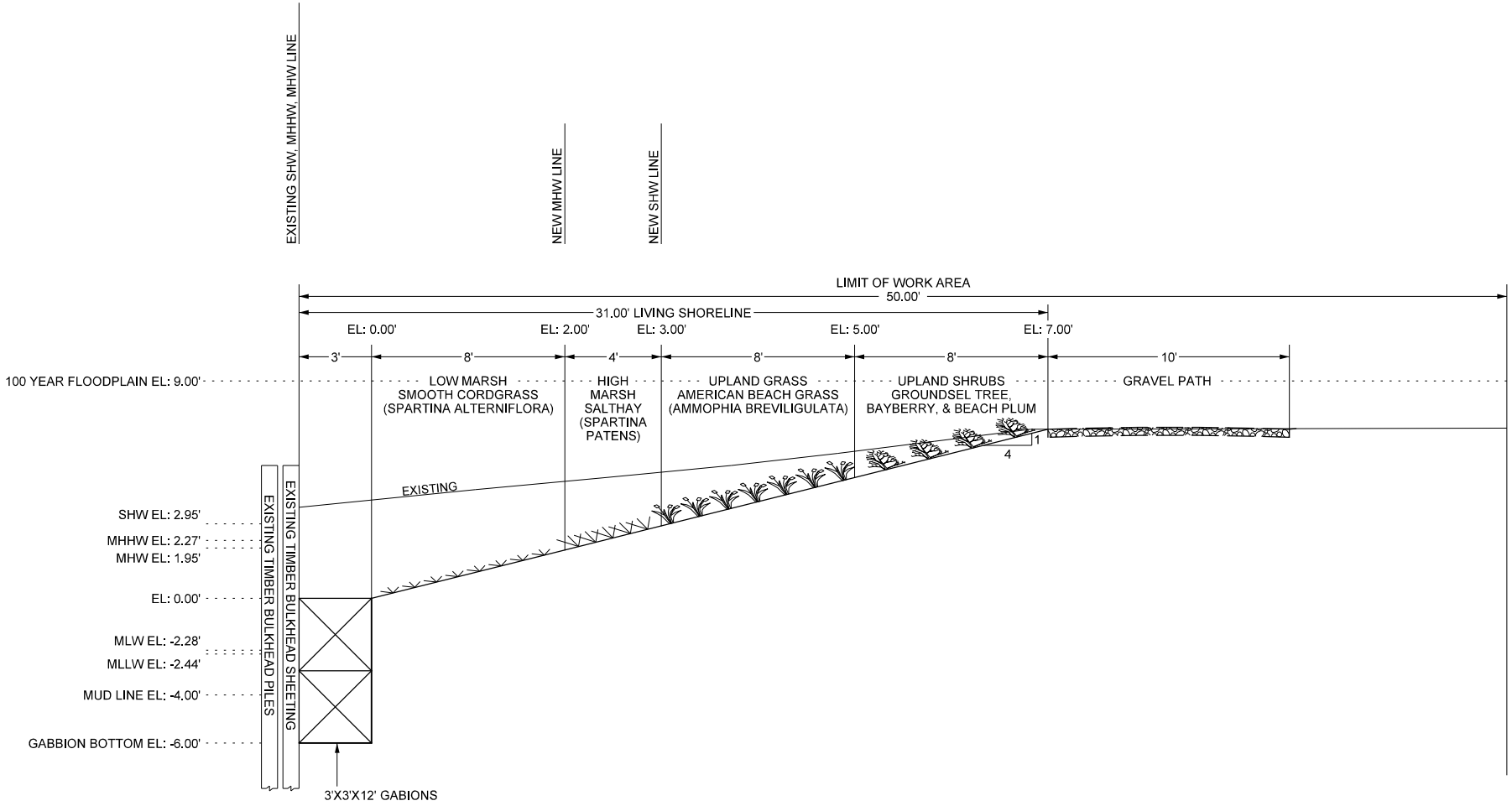
Sheet No.:	16 of 30



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TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
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BALDWIN HARBOR PARK CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
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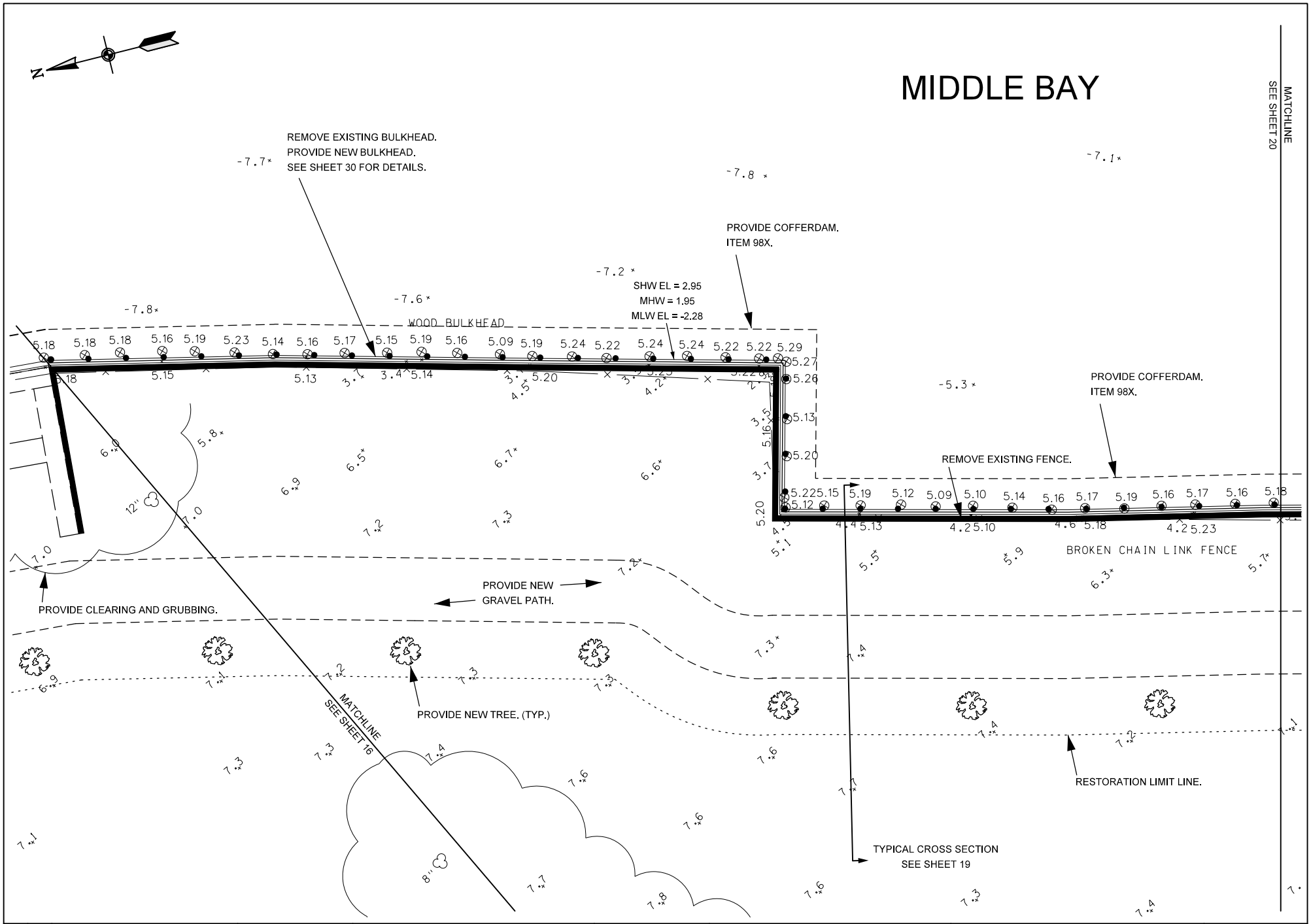
Sheet No.: 17 of 30



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BALDWIN HARBOR PARK PLAN

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BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'
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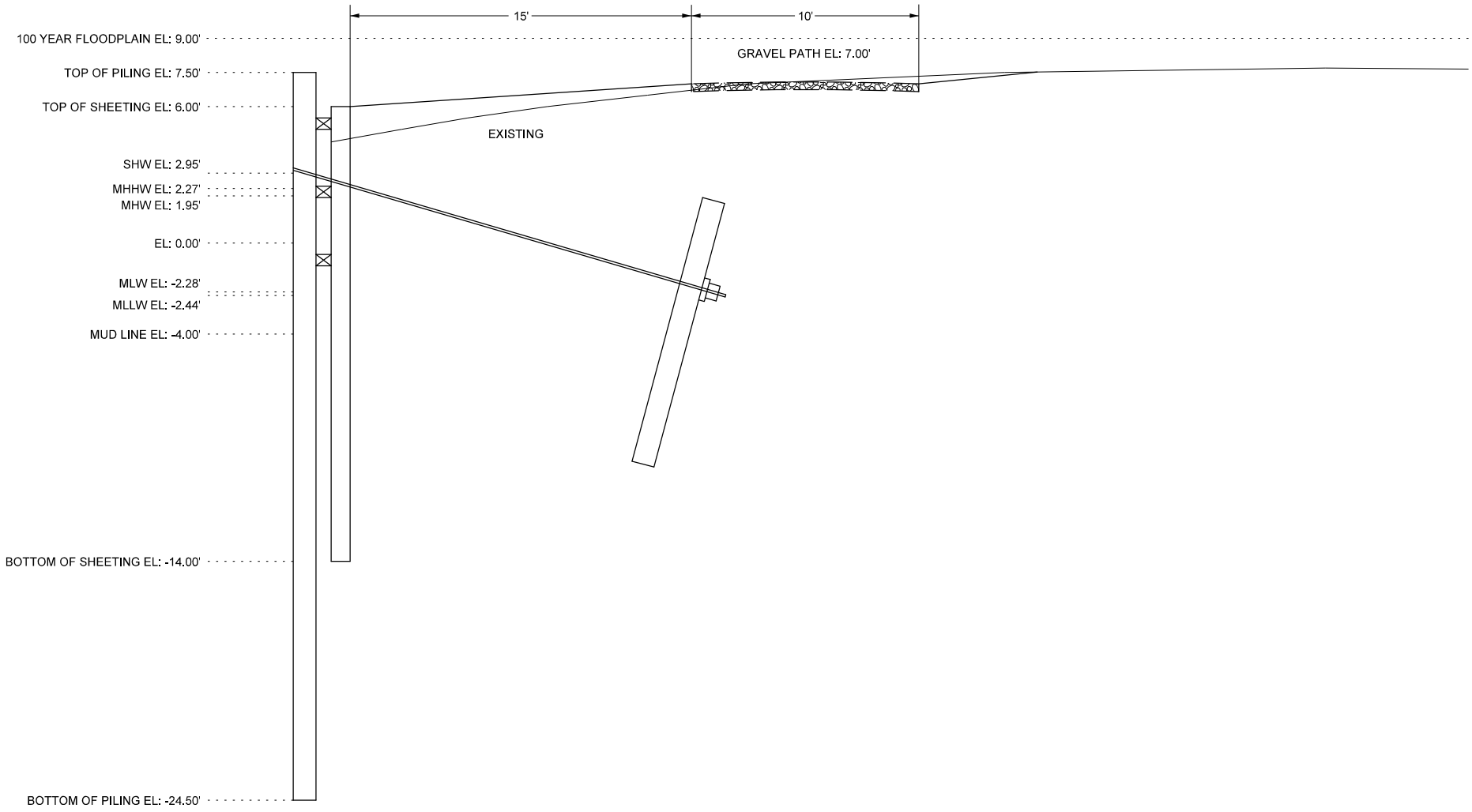

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Department of Engineering

BALDWIN HARBOR CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
File No.:
Dwg No.:
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MIDDLE BAY

MATCHLINE SEE SHEET 18

MATCHLINE SEE SHEET 22

REMOVE EXISTING BULKHEAD.
PROVIDE NEW BULKHEAD.
SEE SHEET 30 FOR DETAILS.

CONCRETE HEADWALL
BULKHEAD OUTFALL
INV = 2.12

PROVIDE COFFERDAM.
ITEM 98X.

REMOVE EXISTING FENCE.

SHW EL = 2.95
MHW = 1.95
MLW EL = -2.28

15"ERCP

PROVIDE NEW
GRAVEL PATH.

CB
TCP = 7.58
GRATE = 6.93
BOTTOM = 2.3

RESTORATION LIMIT LINE.

REMOVE EXISTING CATCH BASIN. (TYP.)

PROVIDE NEW TREE. (TYP.)

CB
TCP = 7.69
GRATE = 6.94
INV = 2.5

TYPICAL CROSS SECTION
SEE SHEET 21

BULKHEAD EXISTING DRAIN PIPE. (TYP.)

15"PWP

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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'
Date: NOV. 2018
File No.:
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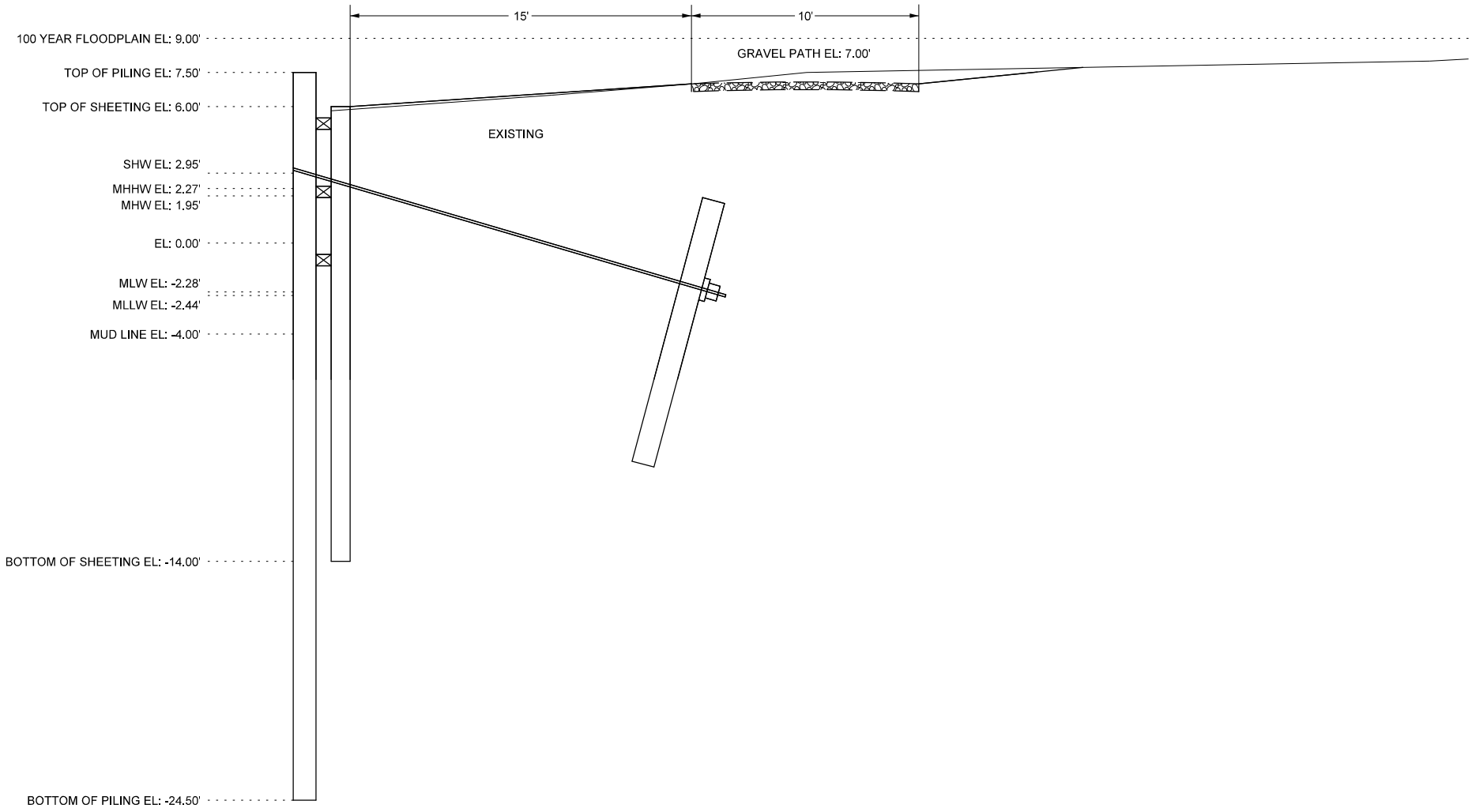

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TOWN OF HEMPSTEAD N.Y. FOUNDED 1644

Department of Engineering

BALDWIN HARBOR CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE

Date: NOV. 2018

File No.:

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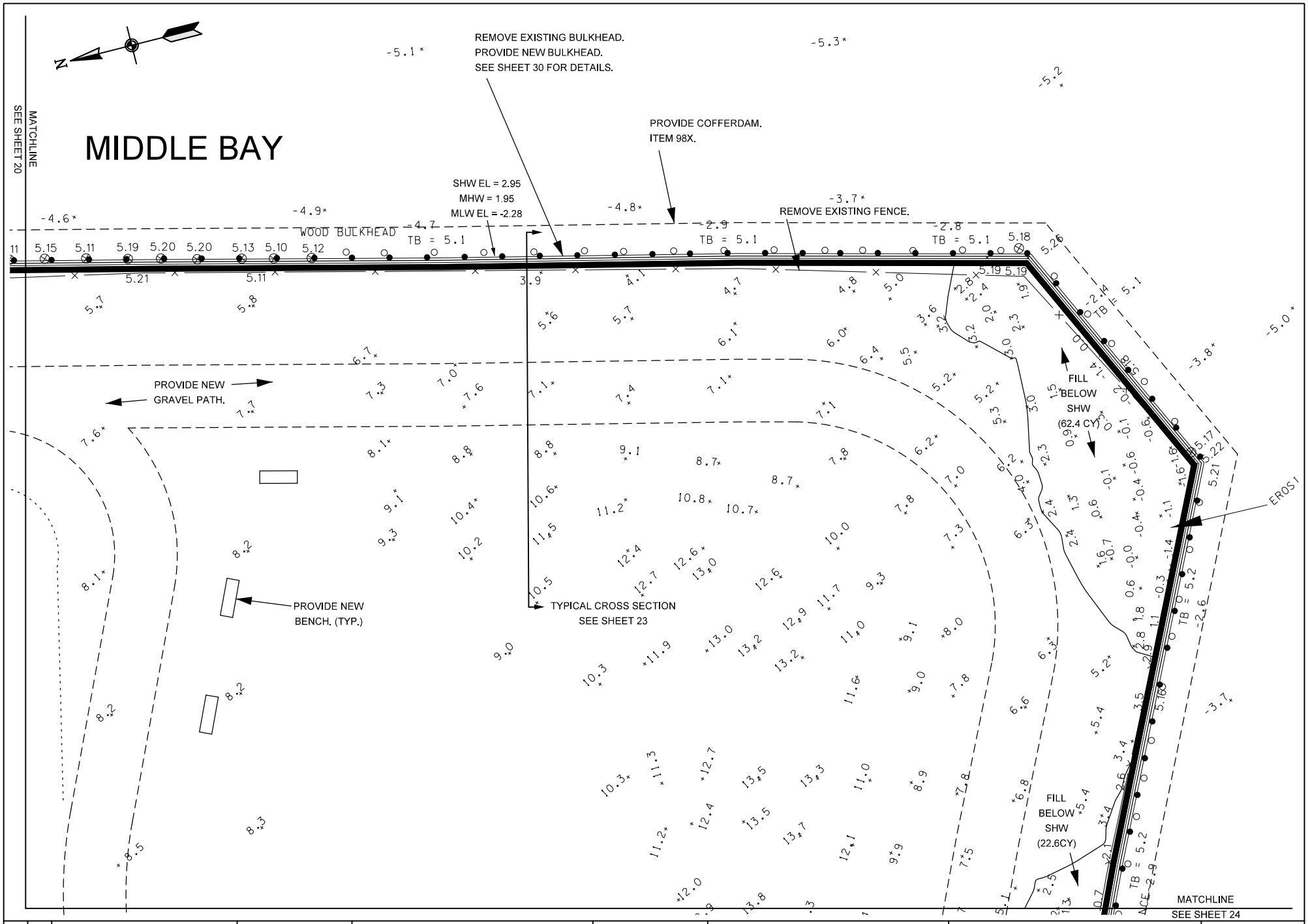

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BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'
Date: NOV. 2018
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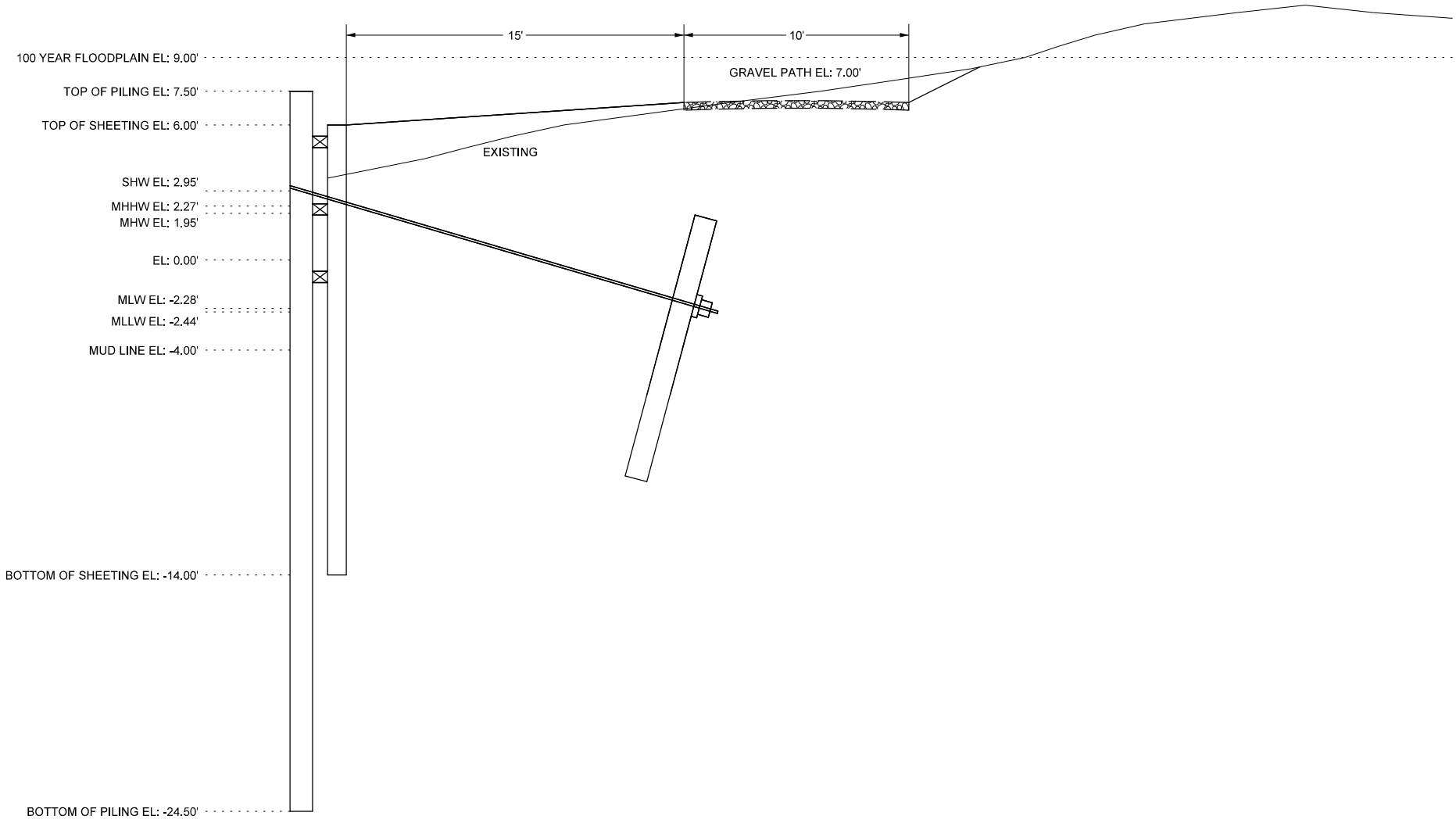

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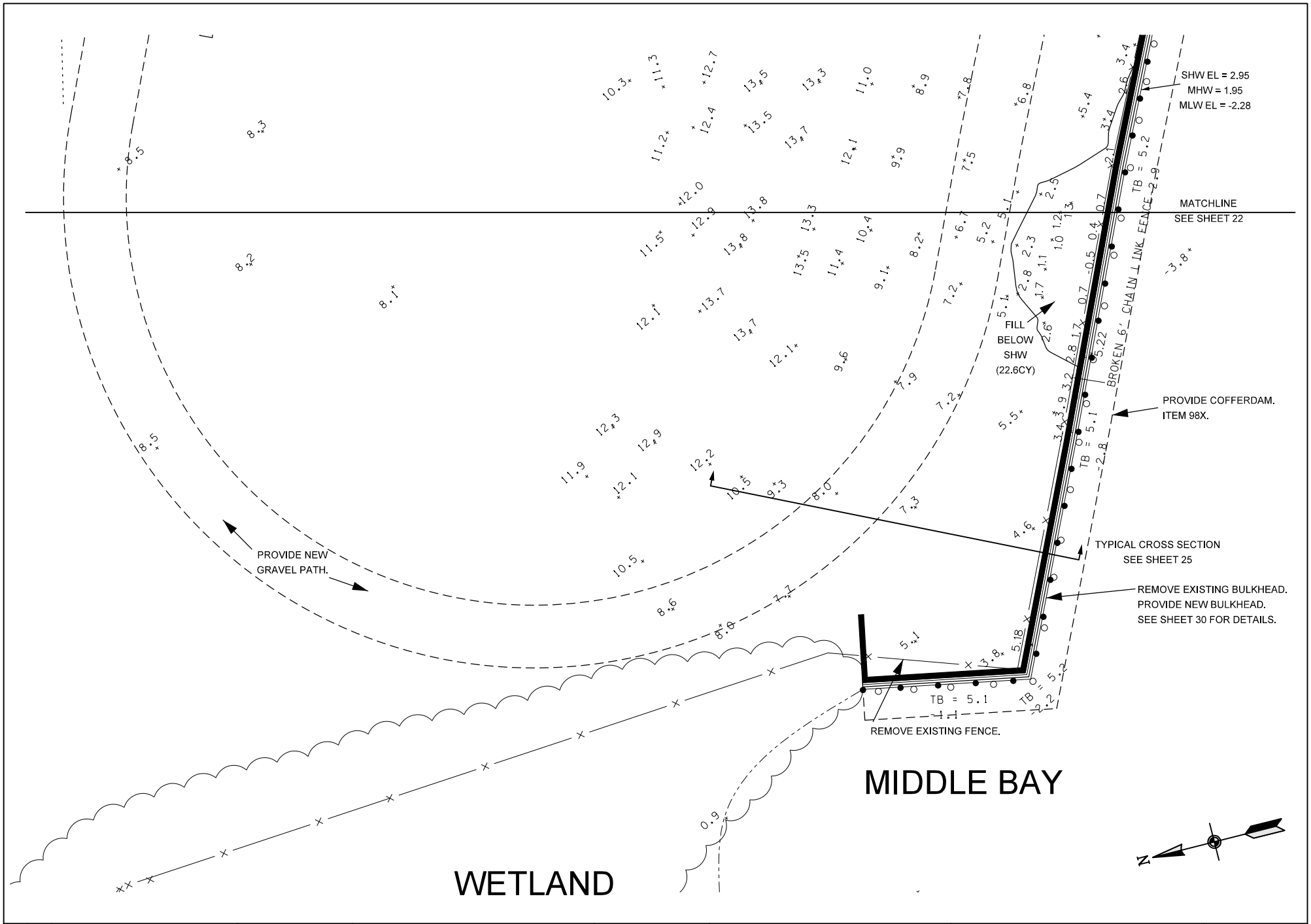
TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
Department of Engineering

BALDWIN HARBOR CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 23 of 30



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BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'
Date: NOV. 2018
File No.:
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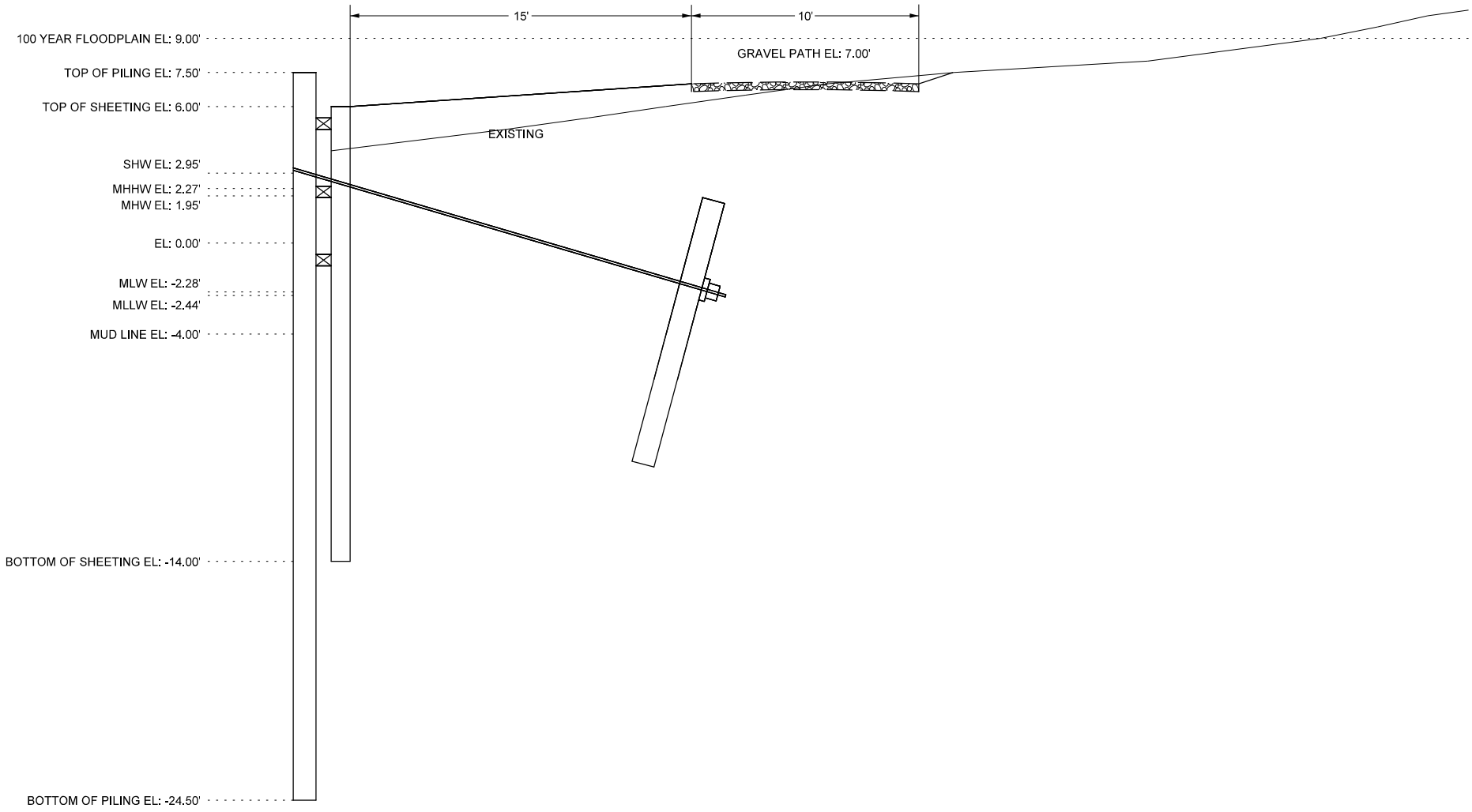

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BALDWIN HARBOR CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
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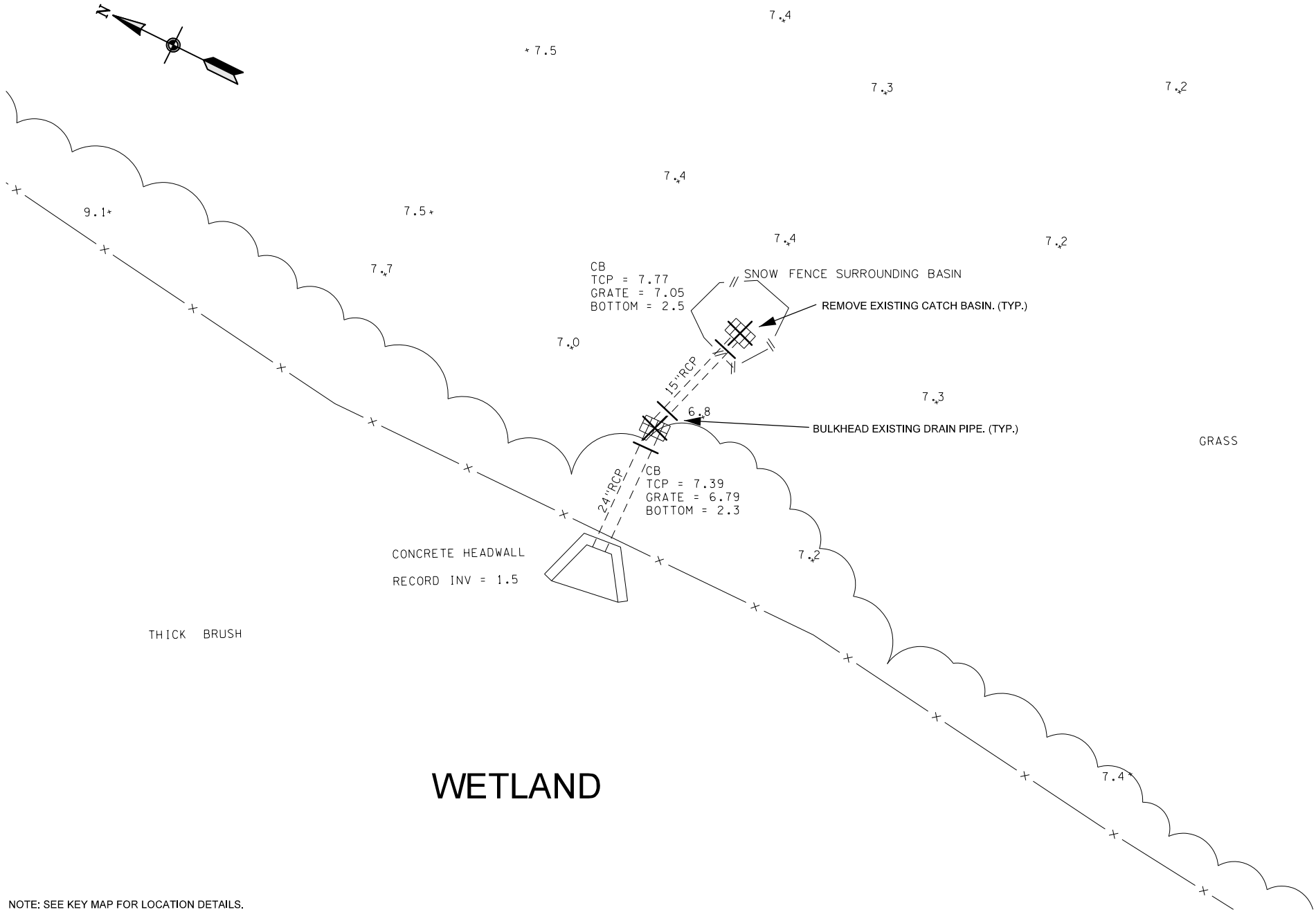

NOTE: SEE KEY MAP FOR LOCATION DETAILS.

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BALDWIN HARBOR PARK PLAN

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BALDWIN, N.Y.

Scale:	1" = 20'
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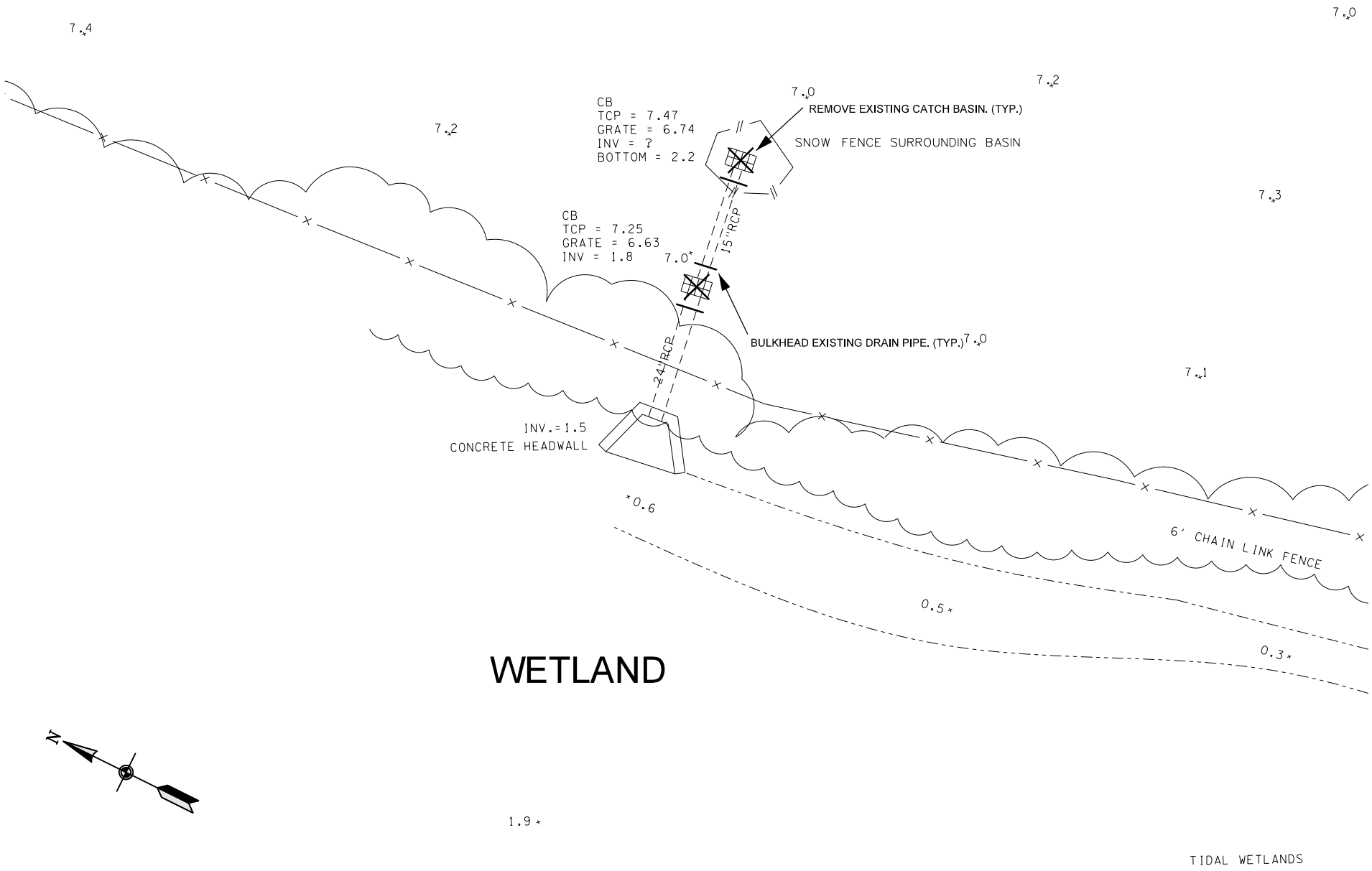

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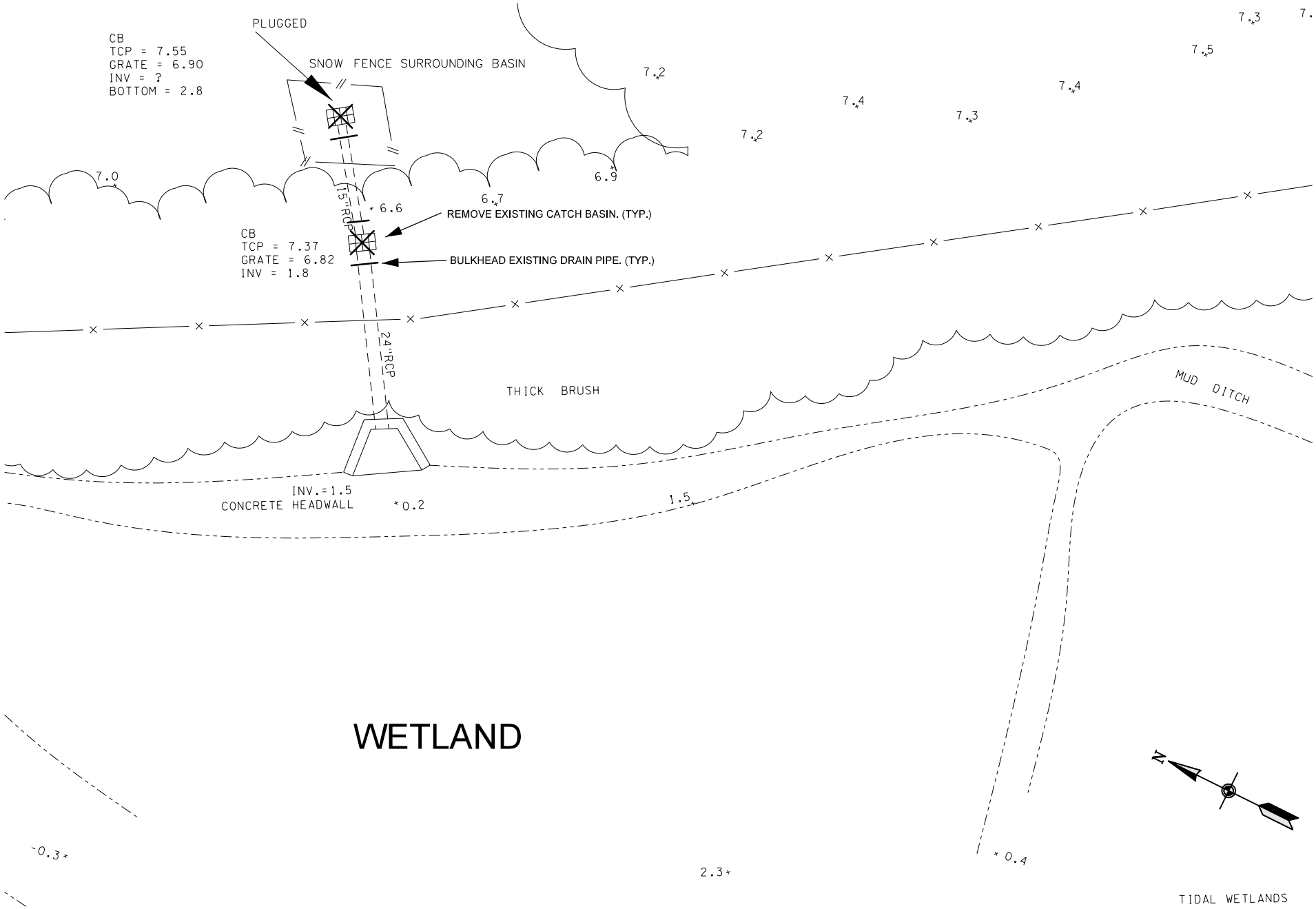

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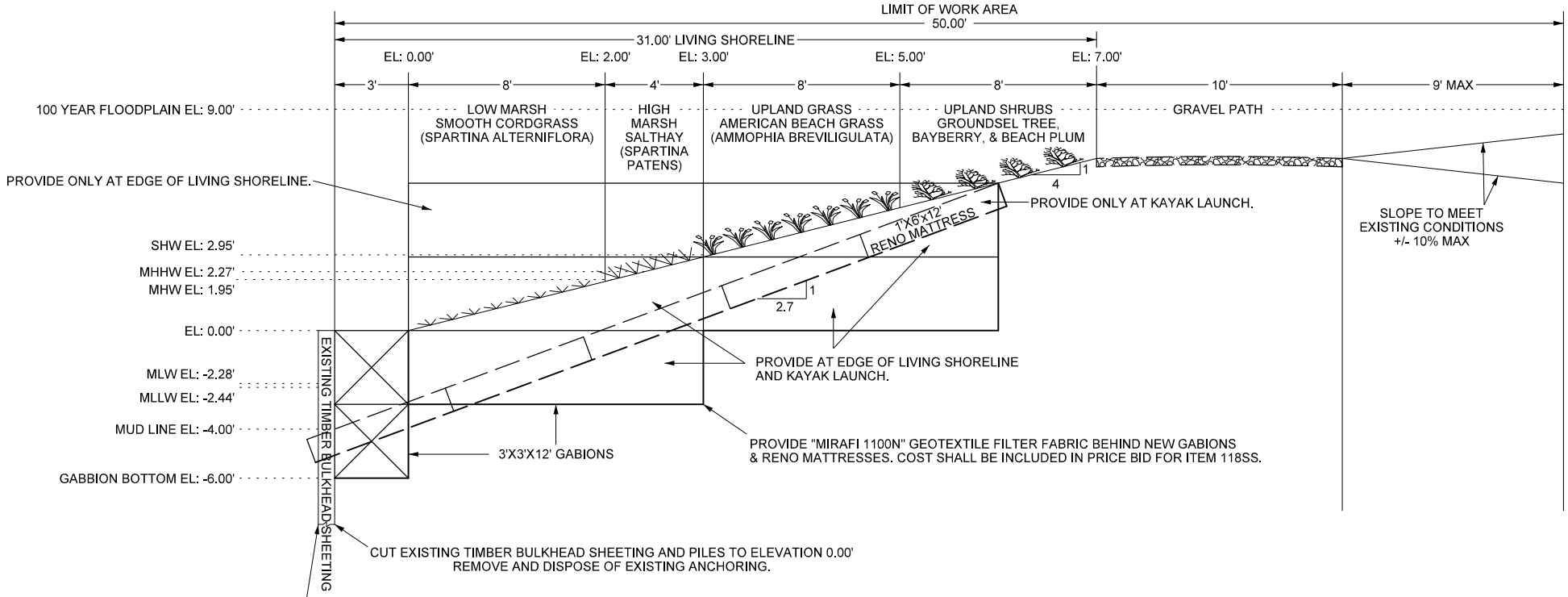

NOTE:
CONTRACTOR TO FURNISH, MAINTAIN, AND REMOVE COFFERDAMS AND DEWATERING EQUIPMENT.
THE SELECTION OF MATERIALS, THEIR ARRANGEMENT AND DETAILS SHALL BE THE CONTRACTORS OPTION AND RESPONSIBILITY.
ITEM 98X.

PLANTING SPECIFICATIONS

LOW MARSH:
Smooth Cordgrass (Spartina Alteriflora)
All plants to be Nursery Grown in 2" Peat pots, planted on 18" centers. Stagger rows.

HIGH MARSH:
Saltmeadow Cordgrass (Spartina Patens)
All plants to be Nursery Grown in 2" Peat pots, planted on 18" centers. Stagger rows.

UPLAND GRASS:
American Beachgrass (Ammonphila Breviligulata)
Install on 18" centers. 3 culms/planting unit. Stagger rows.
Fertilize in early spring. 30lbs inorganic nitrogen/acre.

UPLAND SHRUBS:
Groudsel Tree (Baccharis Hamlimifolia)
Bayberry (Myrica Pennsylvanica)
Beach Plum (Prunus Maritima)
All plants to be Nursery Grown, 2 Gallon Minimum. Install on 6' centers.
Fertilize with 1 tablespoon of Osmocote 18-6-12 per planting hole.

NOTE:
Smooth Cordgrass plantings to be installed prior to Saltmeadow Cordgrass plantings to prevent disturbence.
Saltmeadow Cordgrass plantings to be installed prior to upland plantings to prevent disturbence.
All plant installation and seeding to occur between March 15 and May 15 or September 15 to October 15.

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TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
Department of Engineering

LIVING SHORELINE DETAIL

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
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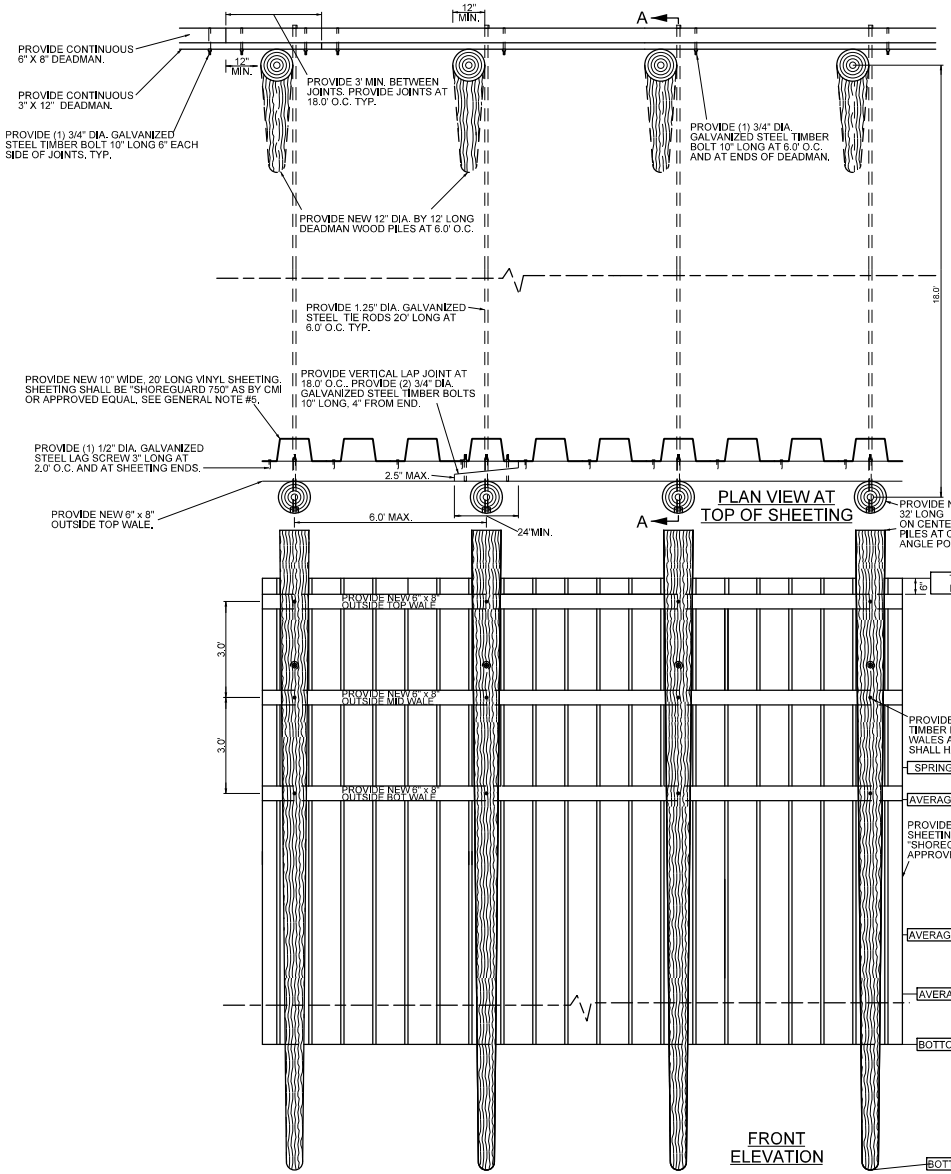
Dwg No.:
Sheet No.: 29 of 30



ITEM 204X GENERAL NOTES:

1. ALL LUMBER AND TIMBER SIZES INDICATED ARE NOMINAL. ALL DIMENSIONS INDICATED ARE FINISHED.
2. ALL LUMBER AND TIMBER SHALL BE CCA AND PRESSURE TREATED TO OBTAIN A MINIMUM RETENTION OF 2.5 LBS/CF.
3. NEW RETURNS AND CONNECTIONS TO EXISTING BULKHEADS AT LIMITS OF NEW BULKHEAD SHALL BE DETERMINED IN FIELD A.O.B.E.
4. EXISTING BULKHEADS AND EXISTING BULKHEAD ANCHORING COMPONENTS SHALL BE COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 204X.
5. SEE PLANS FOR NEW TOP OF SHEETING ELEVATIONS, NEW SHEETING LENGTHS AND NEW PILE LENGTHS.
6. ALL TIMBER AND CARRIAGE BOLTS SHALL BE PROVIDED WITH ONE N.Y.D.D.WASHER AND NUT AT END.
7. ALL LAG SCREWS SHALL BE PROVIDED WITH ONE N.Y.D.D.WASHER AT HEAD END.
8. ALL TIE RODS SHALL BE PROVIDED WITH TWO N.Y.D.D.WASHERS AND NUTS AT EACH END.
9. ALL BOLTS AND TIE RODS SHALL BE CUT FLUSH AT NUT END WHERE SHOWN AND WHERE NECESSARY TO INSTALL NEW BULKHEAD COMPONENTS.
10. ALL TIE RODS SHALL BE CUT FLUSH AT FRONT OF PILES. NUTS AND WASHERS SHALL BE COUNTERSUNK.
11. ALL HARDWARE AND FASTENERS SHALL BE GALVANIZED STEEL UNLESS OTHERWISE SHOWN AND MEET N.C.D.P.W SPECIFICATIONS.
12. ALL OPENINGS IN NEW SHEETING FOR TIE RODS SHALL BE LIMITED IN SIZE AS FOLLOWS: THRU WALL DIMENSION PLUS ONE INCH.

HORIZONTAL AND VERTICAL CONTROL INDICATED IS IN NASSAU COUNTY DATUM. HORIZONTAL CONTROL INDICATED IS NAD83 (1996),US SURVEY FEET. VERTICAL CONTROL INDICATED IS NAVD (1988) FEET.

NO.	DATE	REVISIONS

In Charge:	D.L.T.
Compilation:	J.M.T.
Design:	J.M.T.
Drawn:	J.M.T.
Checked:	J.M.T.
Reviewed:	D.L.T.

TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
Department of Engineering

BULKHEAD DETAIL

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 30 of 30

Appendix A: Figures

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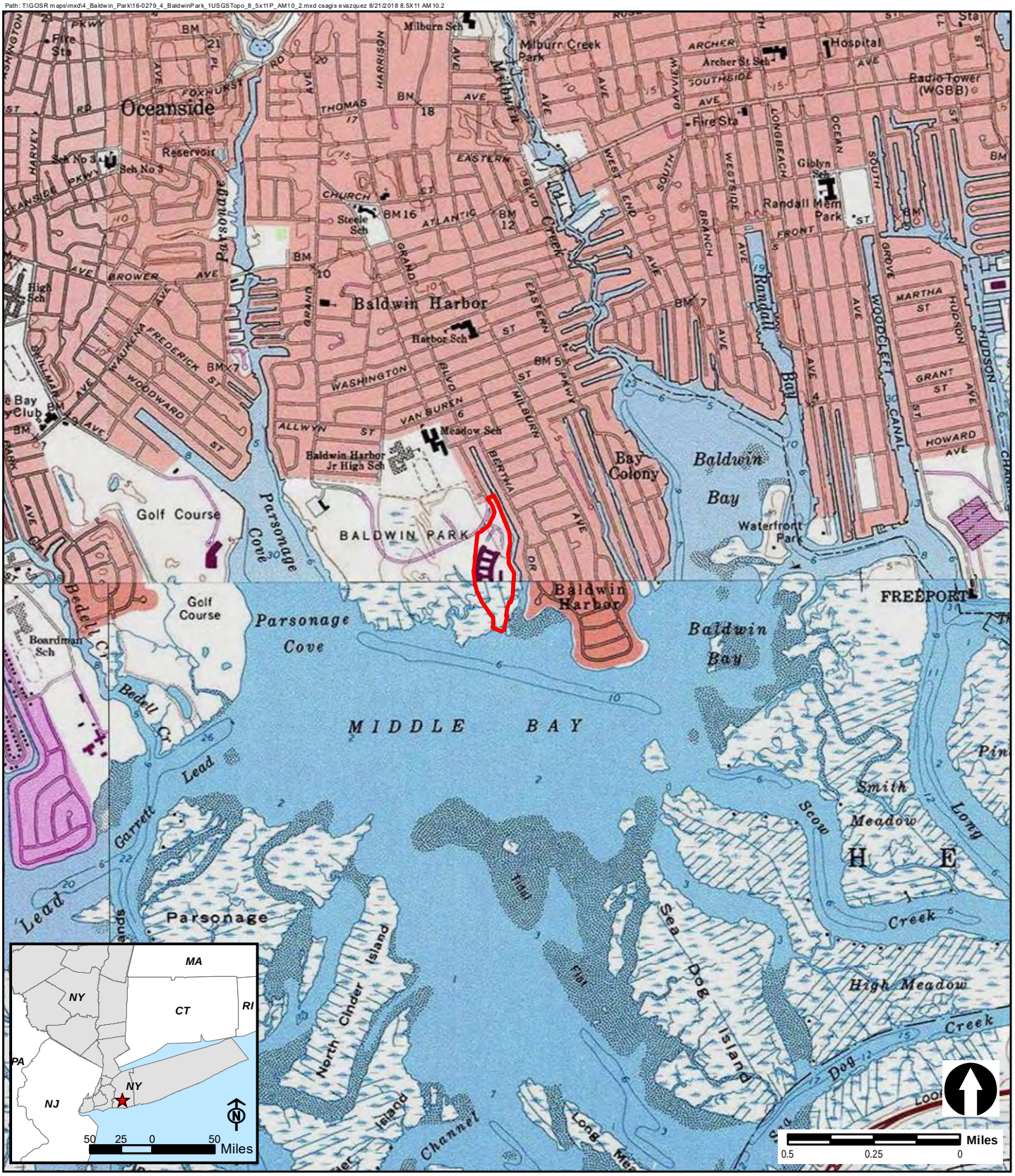

Project Site

Figure 1

USGS Regional Location

Baldwin Park Shoreline Stabilization Project

Hempstead, Nassau County, NY

Source: USGS Topgraphic Map, Far Rockaway Quadrangle
Copyright:© 2013 National Geographic Society, i-cubed
(http://server.arcgisonline.com/ArcGIS/rest/services/
USA_Topo_Maps/MapServer)

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Project Site
Living Shoreline
Bulkhead

Figure 2

Project Area

Baldwin Park Shoreline Stabilization Project

Hempstead, Nassau County, NY

Source: New York State Department of Transportation, 2013;
ESRI World Imagery

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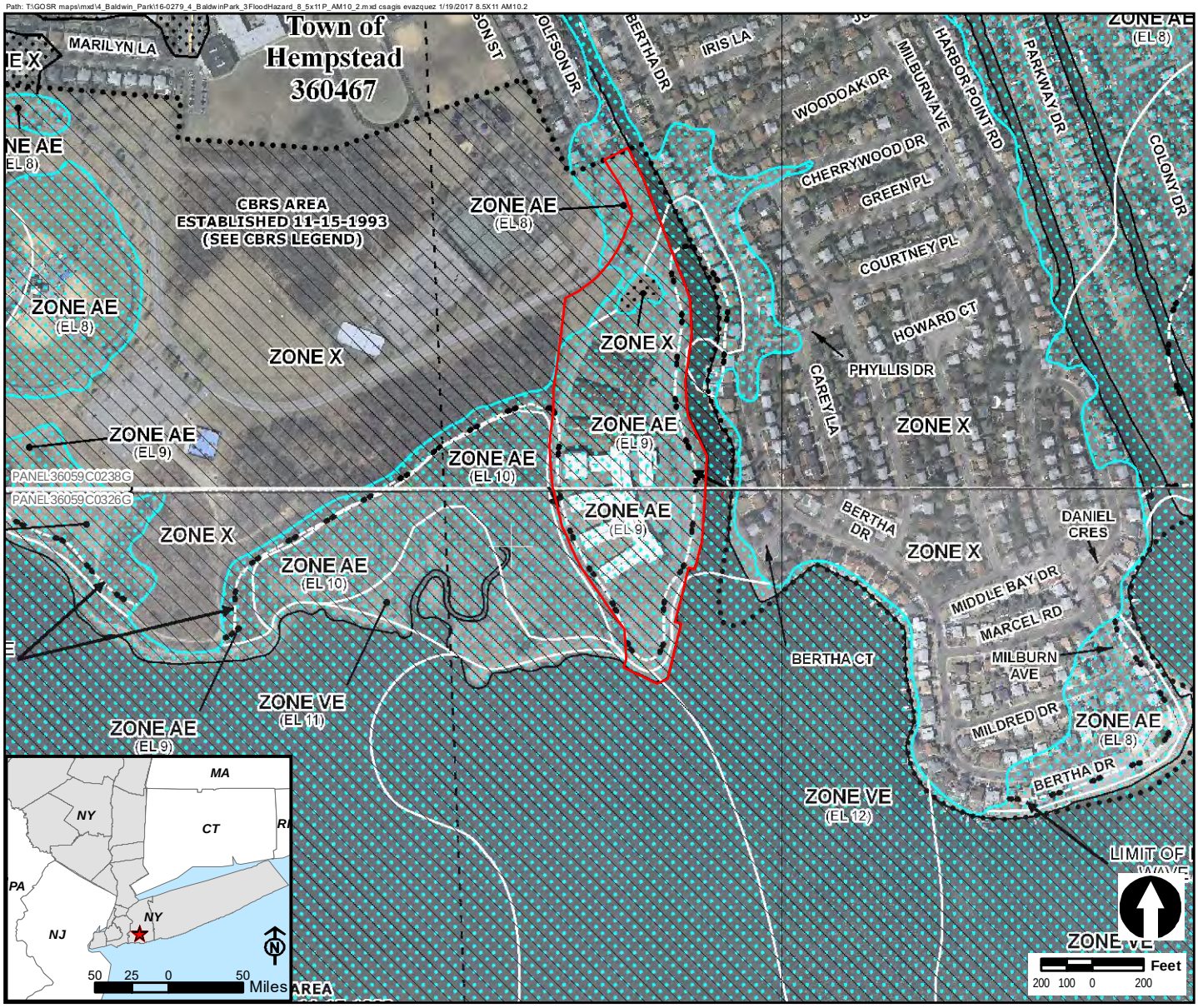

Project Site

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.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

ZONE X

OTHER FLOOD AREAS

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.

ZONE X

OTHER AREAS

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

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: Federal Emergency Management Agency, Flood Insurance Rate Map (FIRM), Panels: 36059C0238G and 36059C0326G (effective date: 9/11/2009)

Figure 3

Flood Hazard

Baldwin Park Shoreline Stabilization Project

Hempstead, Nassau County, NY

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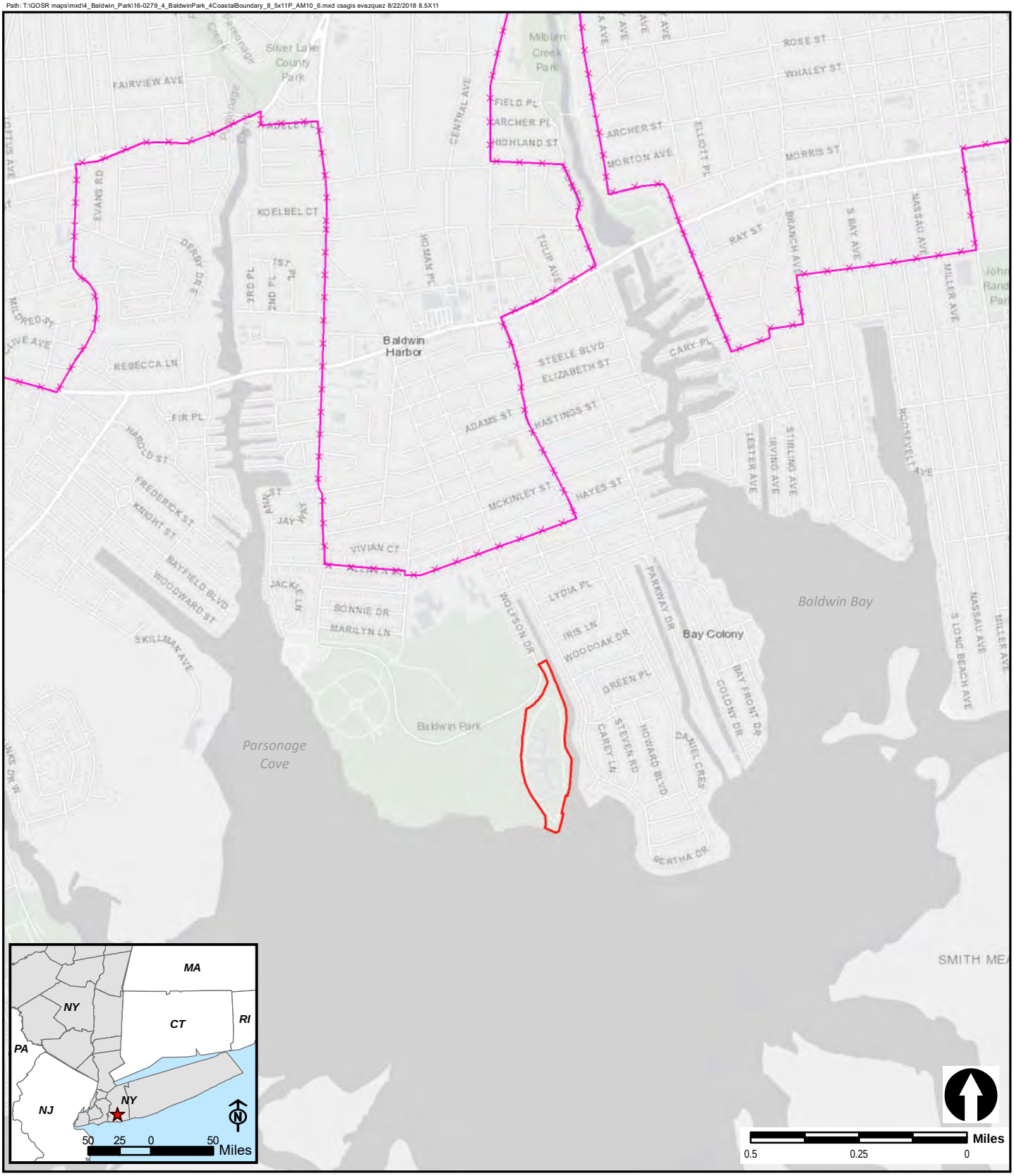

Project Site

NYS Coastal Boundary

Figure 4

Coastal Boundary

Baldwin Park Shoreline Stabilization Project

Hempstead, Nassau County, NY

Source: NYS Department of State, Office of Planning and Development (2014); ESRI World Light Gray Canvas Basemap

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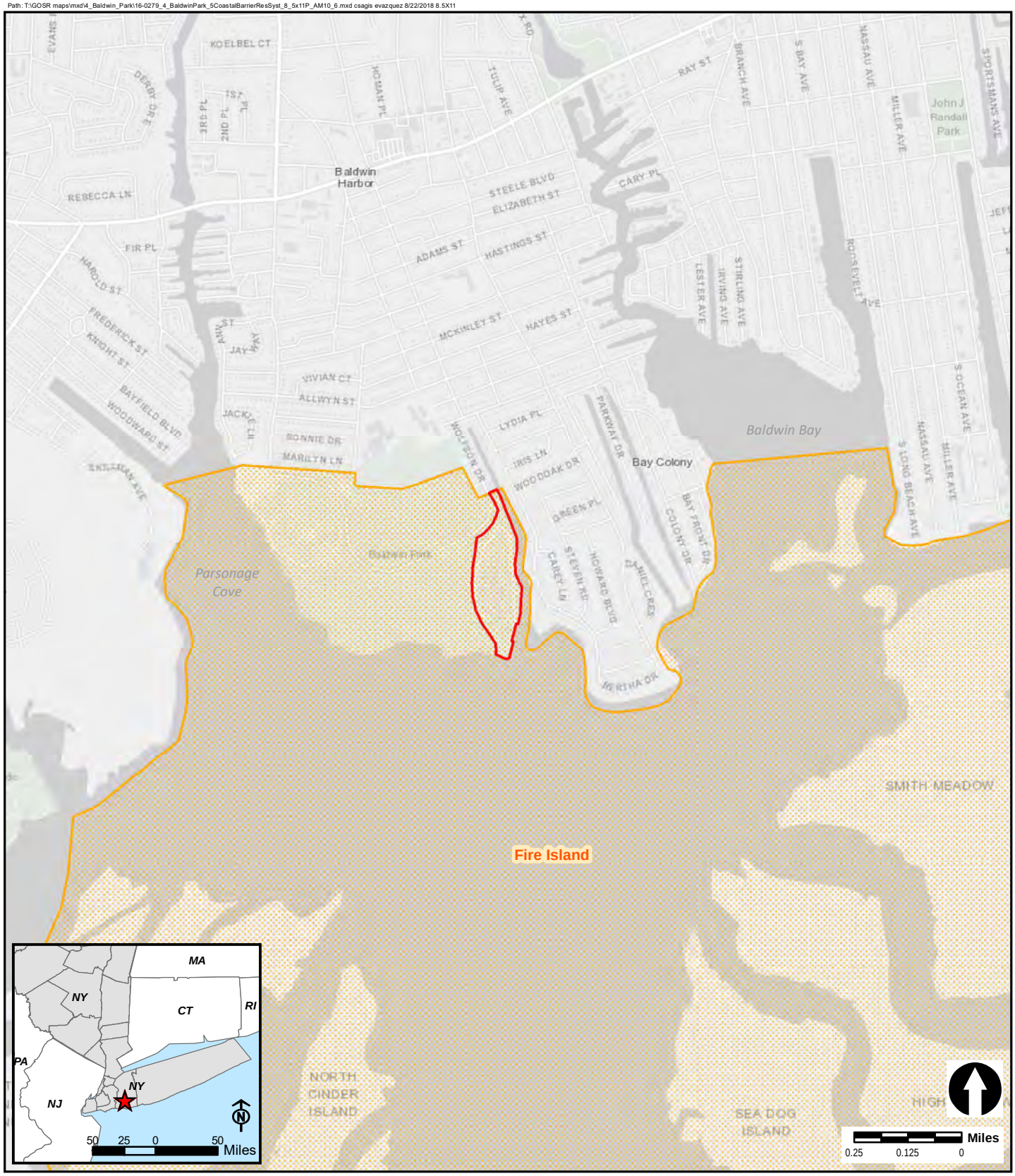

Project Site

Coastal Barrier Resource System

Figure 5

Coastal Barrier Resource System

Baldwin Park Shoreline Stabilization Project

Hempstead, Nassau County, NY

Source: U.S. Fish and Wildlife Service (3-14-2016);
ESRI World Light Gray Canvas Basemap

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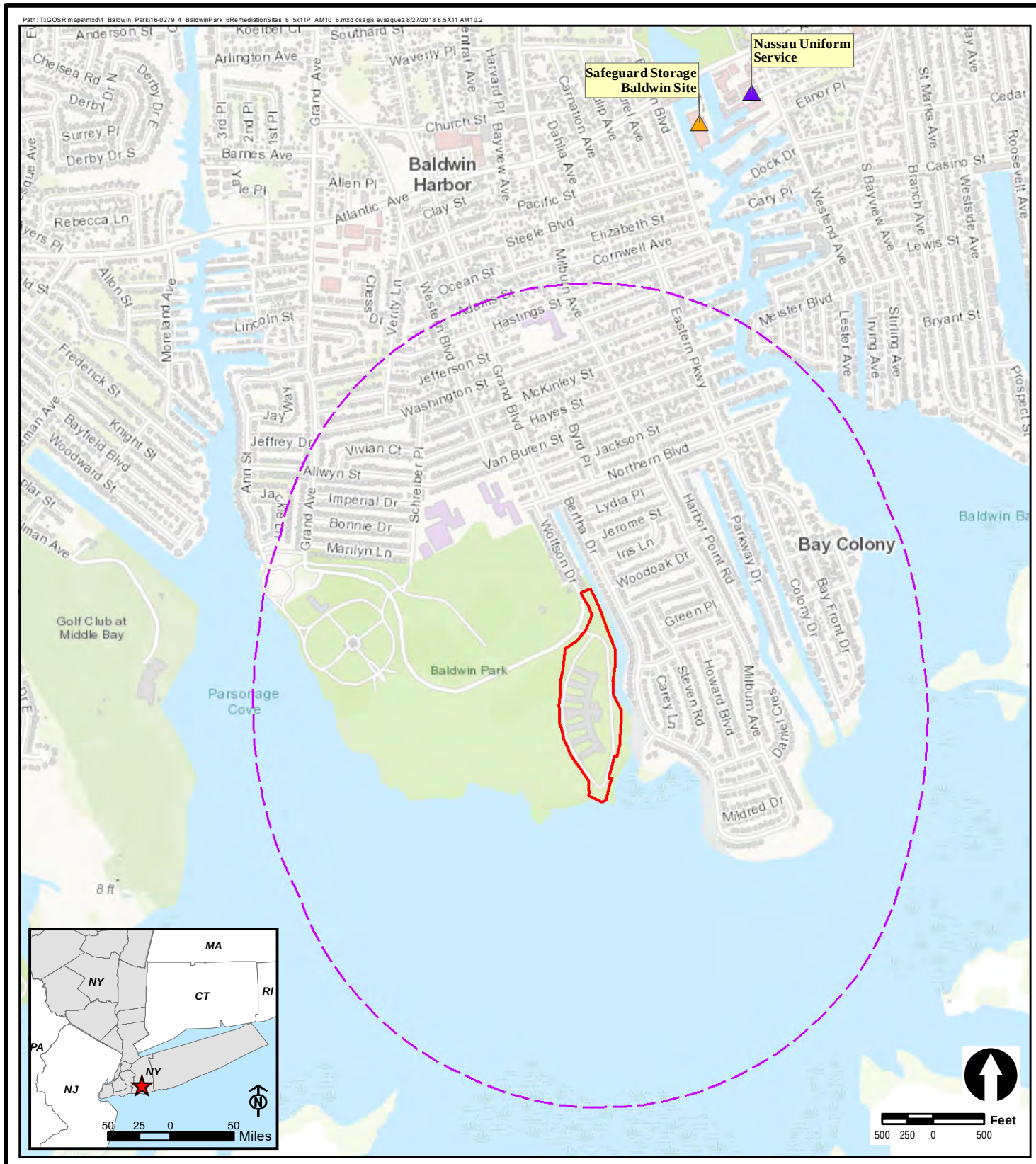

Project Site

3,000 feet radius

NYSDEC Remedial Program

State Superfund Program

Voluntary Cleanup Program

"No sites listed on an U.S. Environmental Protection Agency (EPA) Superfund National Priorities or Comprehensive Environmental Response Superfund National Priorities or Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) List or equivalent State list were found within the 3,000 foot search radius".

Figure 6

Remediation Sites

Baldwin Park Shoreline Stabilization Project

Hempstead, Nassau County, NY

Source: New York State Department of Environmental Conservation (NYSDEC); NEPAssist (June 2018). 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

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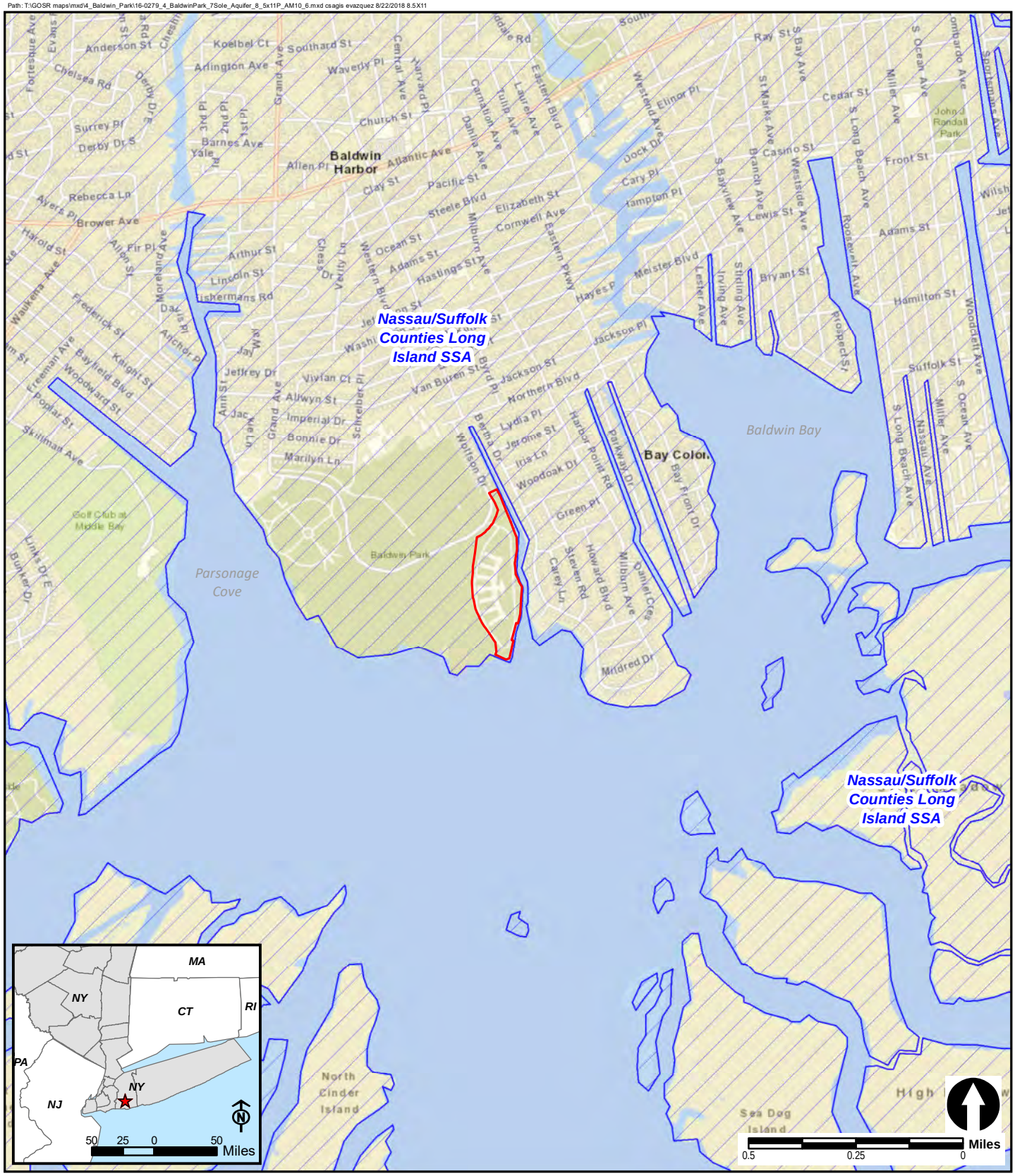

Project Site

Sole Source Aquifer

Figure 7

Sole Source Aquifers

Baldwin Park Shoreline Stabilization Project

Hempstead, Nassau County, NY

Source: U.S. EPA Office of Water National Sole Source Aquifer GIS Layer (2009), ESRI World Street Map

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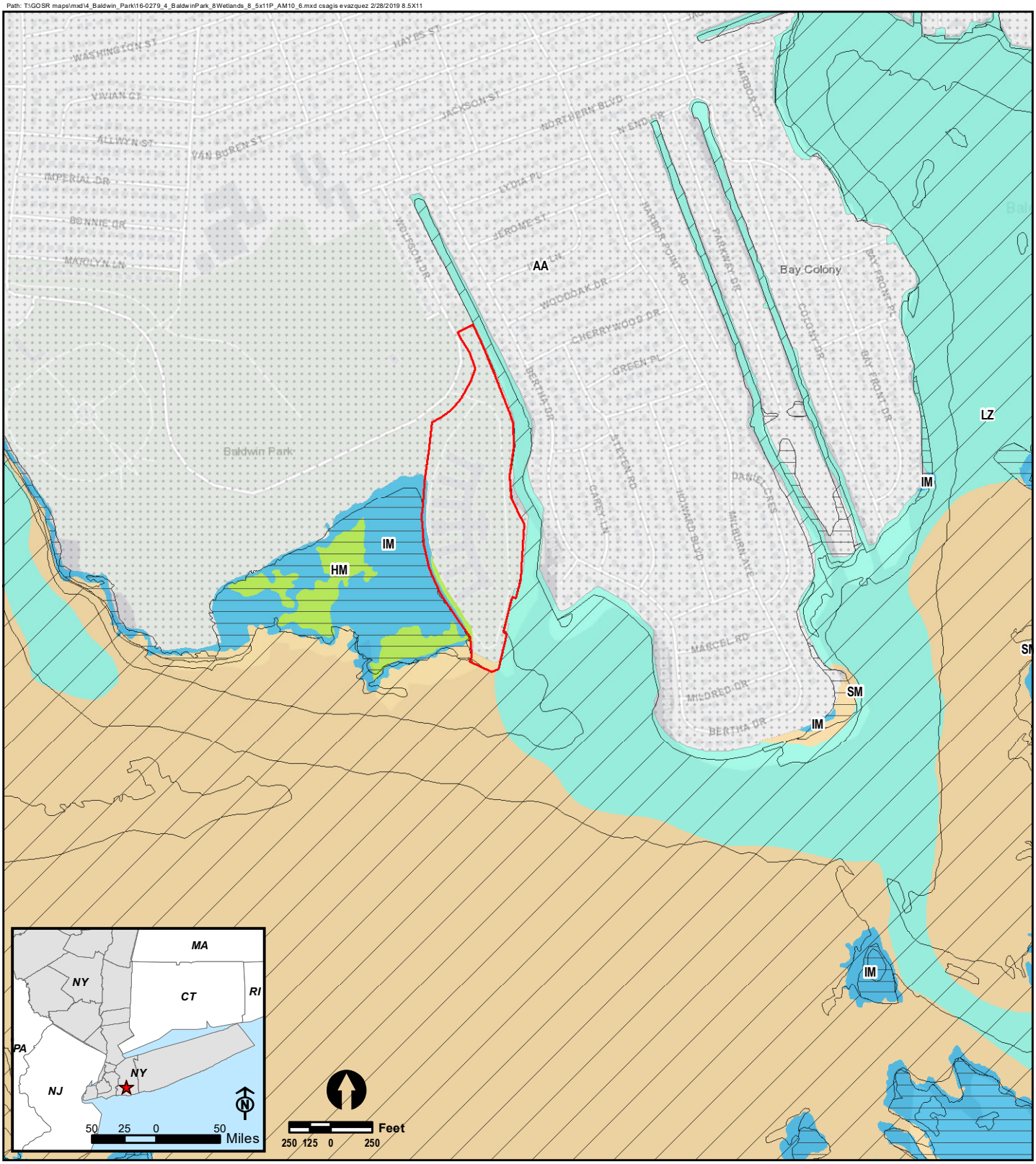

Project Site

Tidal Wetland Category (NYSDEC)

- SM - Coastal Shoals, Bars and Mudflats
- HM - High Marsh
- IM - Intertidal Marsh
- LZ - Littoral Zone
- AA - Adjacent Area

Wetland Type (FWS NWI)

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

Figure 8

Wetlands

Baldwin Park Shoreline Stabilization Project

Hempstead, Nassau County, NY

Source: Tidal Wetlands - NYC and Long Island - 1974, New York State Department of Environmental Conservation (NYSDEC) November 1, 2005; Fish and Wildlife Service (FWS), National Wetlands Inventory (NWI); Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

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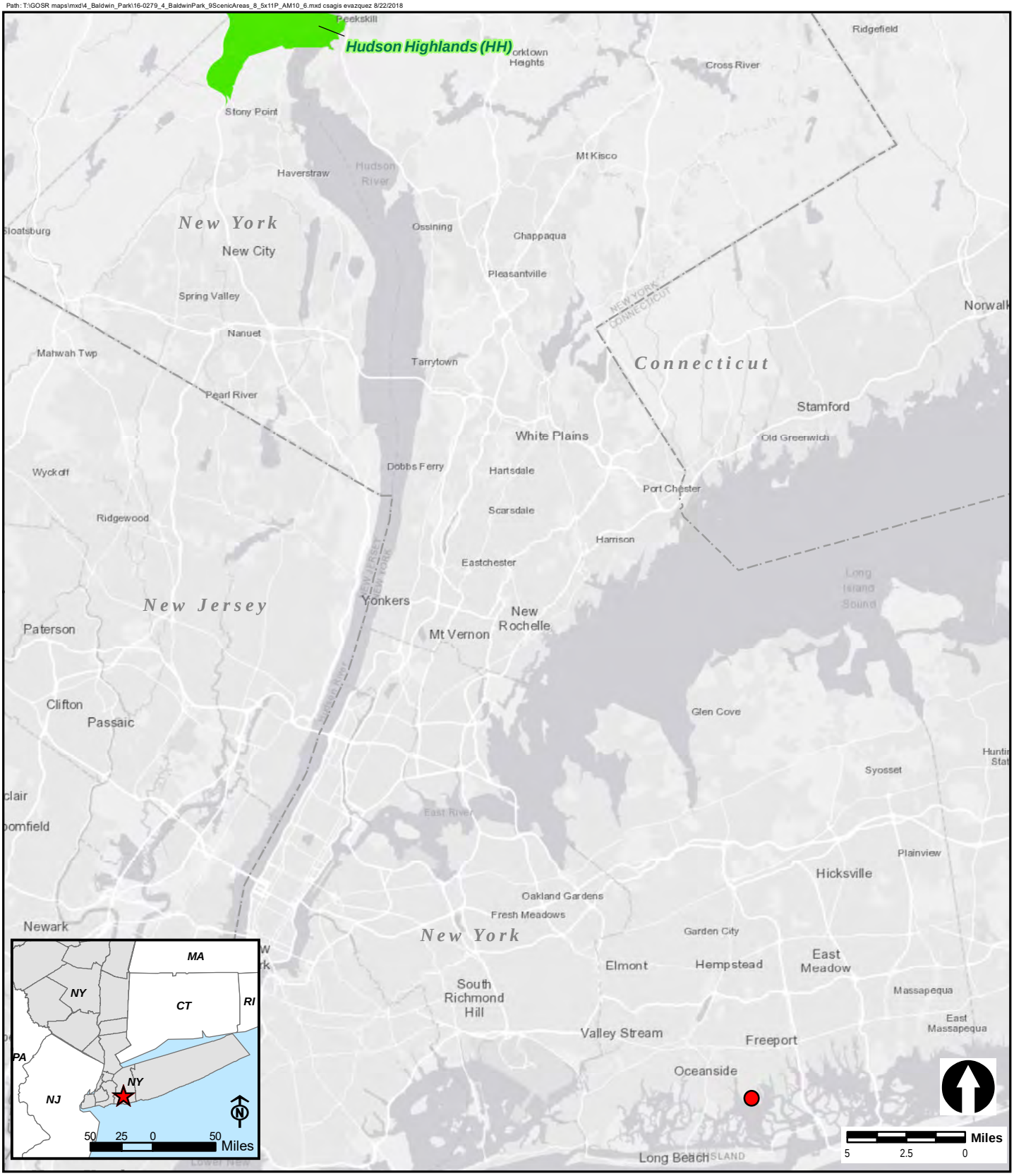

Project Site

Scenic Area

Figure 9

Scenic Areas

Baldwin Park Shoreline Stabilization Project

Hempstead, Nassau County, NY

Source: NYS Department of State, Office of Planning and Development (November 2014); ESRI World Light Gray Canvas Basemap

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Project Site

Potential Environmental Justice (EJ) Area

Figure 10

Potential Environmental Justice Areas

Baldwin Park Shoreline Stabilization Project

Hempstead, Nassau County, NY

Source: New York State Department of Environmental Conservation (2014); ESRI World Light Gray Canvas Basemap

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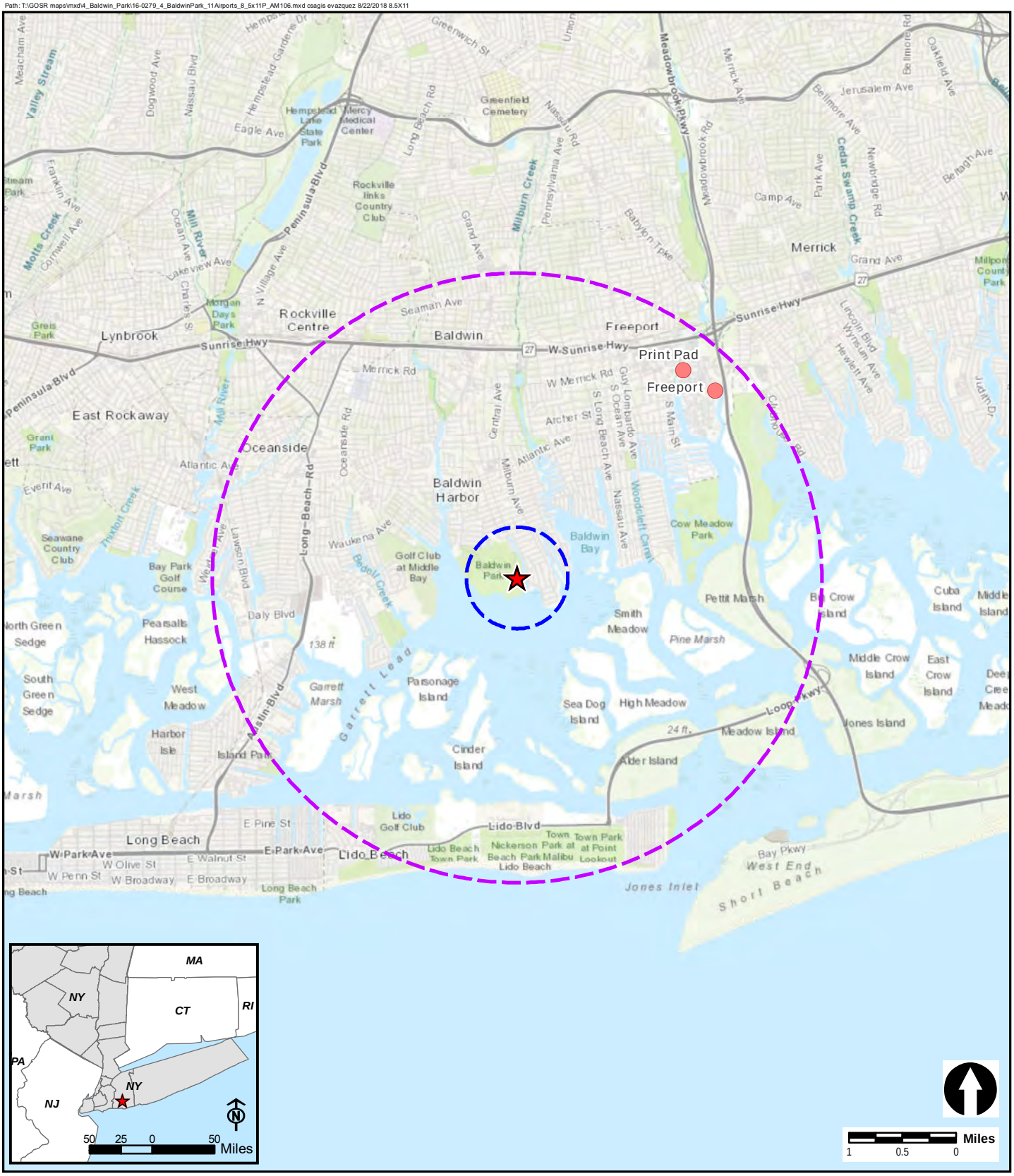

Figure 11

Airports within the Vicinity of the Proposed Project

Baldwin Park Shoreline Stabilization Project

Hempstead, Nassau County, NY

- Project Site
- Heliport
- 2,500 feet Radius
- 15,000 feet Radius

Source: Federal Aviation Administration (FAA), National Transportation Atlas; ESRI. Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL,

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Appendix B: Department of State Coastal Consistency

Governor's Office of
Storm Recovery

ANDREW M. CUOMO
Governor

May 21, 2019 *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
Baldwin Park Shoreline Stabilization Project
Town of Hempstead, Nassau County, New York

Dear Mr. Maraglio:

The Town of Hempstead is proposing implementation of shoreline improvements within the Town of Hempstead's Baldwin Park located at 3232 Grand Avenue, Baldwin, New York. The Proposed Project was developed to stabilize the property, provide storm surge protection and to improve and expand recreational use of the Park by the public along the waterfront. The Proposed Project site is situated within Section 54, Block H, Lot 391, a 14.6-acre parcel formerly occupied by a Board of Cooperative Education Services (BOCES) School Facility (see **Attachment 1, Project Location Maps**).

The Proposed Project would include:

- Installation of sediment control/surface water protection devices followed by installation of a temporary cofferdam.
- Removal of 1,600 linear feet of existing and compromised timber bulkhead.
- Rough grading to provide for1,600 feet of living shoreline. The living shoreline would consist of an armored toe stabilization set at the mean highwater line designed with large revetment stones protecting a stone core.
- In-place and in-kind replacement of approximately 800 linear feet of existing timber bulkhead with approximately 138 new 12-inch diameter timber piles to be installed using an impact hammer along the replacement bulkhead; a vibratory hammer will be utilized to facilitate the installation of new vinyl sheeting. The new bulkhead would be set with a top elevation of 5.25, consistent with the existing timber bulkhead elevation.
- Removal of five existing outfalls and associated catch basins.
- Removal of 36 trees in poor condition to be replaced with 63 trees along the shoreline.
- Construction of an approximately 0.3-acre gravel parking lot near the northern section of the site.
- Construction of an eight-foot wide gravel pedestrian path.
- Construction of a permanent waterfront landing for non-motorized equipment (canoes and kayaks) for use by the public.

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. It should be noted that on July 2, 2018 the New York State Department of State (DOS) issued a General Concurrence to the Town of Hempstead for this project (F-2018-0564).

The purpose of this letter is to provide the DOS notice of the Proposed Action and to request a review to confirm that the proposed activities will be in compliance with general consistency concurrence criteria and to enable DOS to support federal financial assistance and issue a no objection to funding finding. 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
Senior Environmental Project Manager
Bureau of Environmental Review and Assessment
Governor's Office of Storm Recovery

CC: Denise Caldwell

Enclosures:
Project Location Figures
Consistency Assessment Form and Policy Review

Figures

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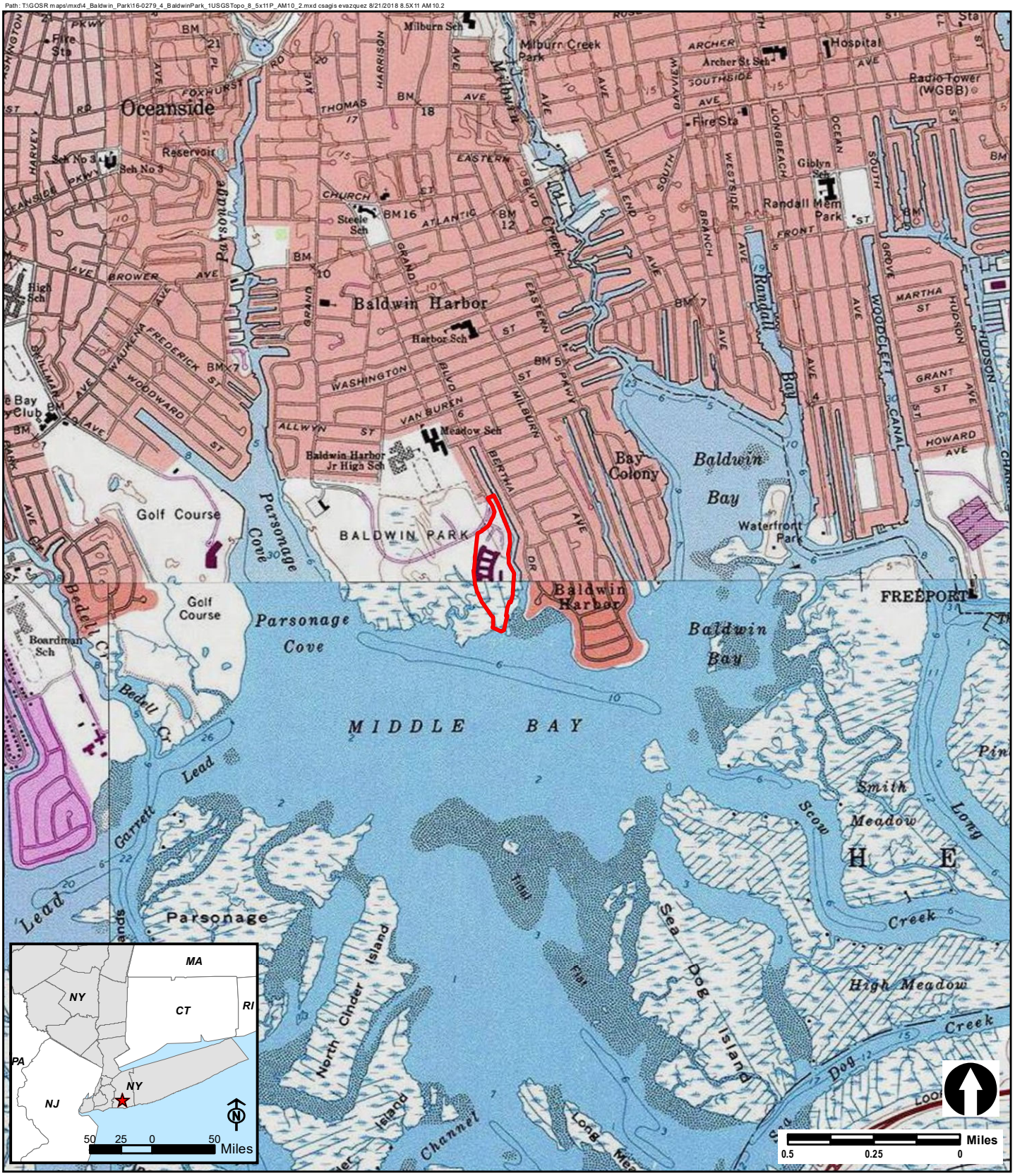

Project Site

Figure 1

USGS Regional Location

Baldwin Park Shoreline Stabilization Project

Hempstead, Nassau County, NY

Source: USGS Topgraphic Map, Far Rockaway Quadrangle
Copyright:© 2013 National Geographic Society, i-cubed
(http://server.arcgisonline.com/ArcGIS/rest/services/
USA_Topo_Maps/MapServer)

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Project Site
Living Shoreline
Bulkhead

Figure 2

Project Area

Baldwin Park Shoreline Stabilization Project

Hempstead, Nassau County, NY

Source: New York State Department of Transportation, 2013;
ESRI World Imagery

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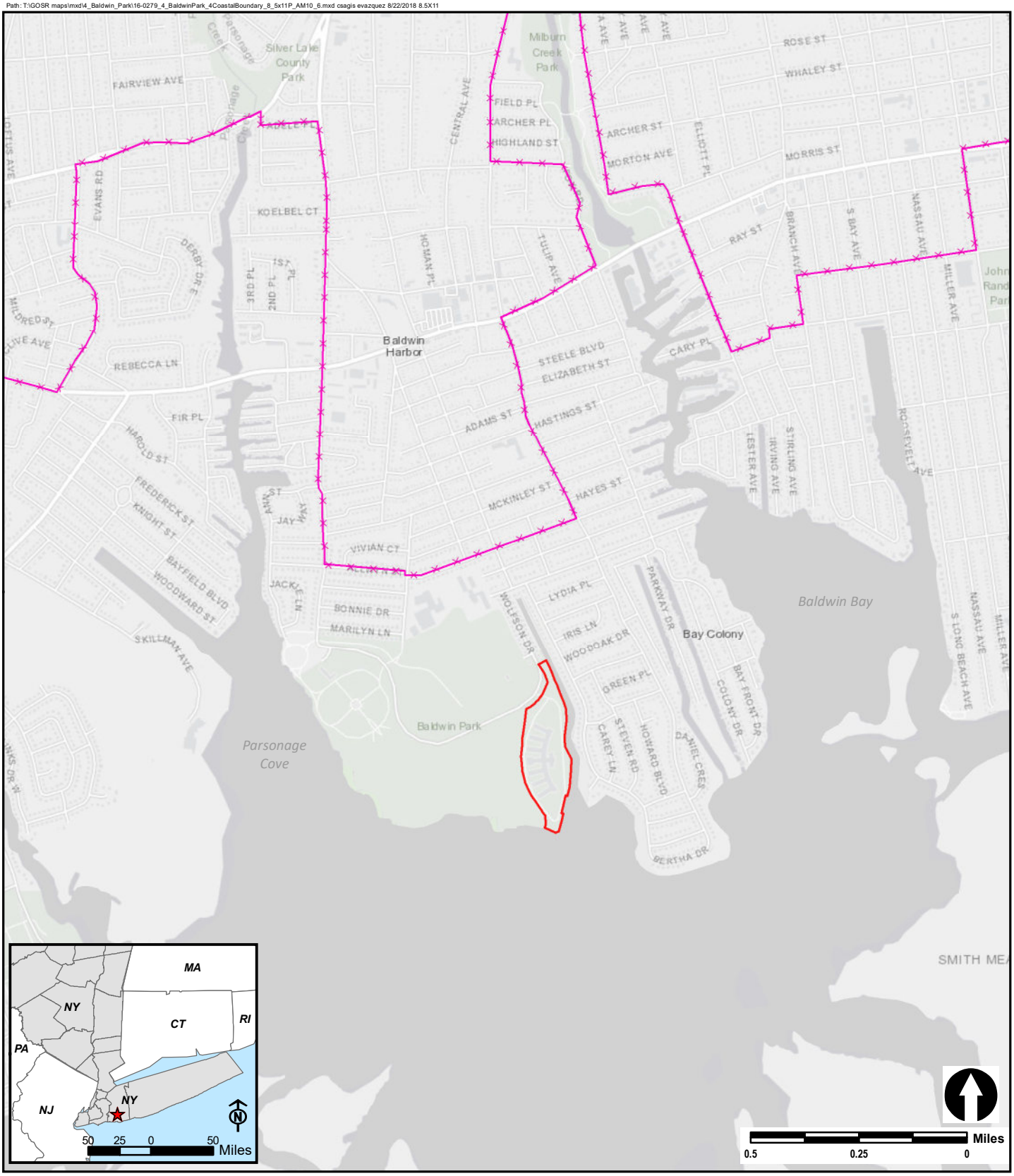

Project Site

NYS Coastal Boundary

Figure 4

Coastal Boundary

Baldwin Park Shoreline Stabilization Project

Hempstead, Nassau County, NY

Source: NYS Department of State, Office of Planning and Development (2014); ESRI World Light Gray Canvas Basemap

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Federal Consistency Assessment Form and Policy 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: Town of Hempstead, Douglas L. Tuman, P.E., Commissioner
2. Address: 350 Front Street Hempstead, NY 11550
3. Telephone: Area Code ( ) (516) 812-3484

B. **PROPOSED ACTIVITY:**

1. Brief description of activity:

Remove and replace timber bulkheads, construct a living shoreline, construct pedestrian walkway and kayak launch

2. Purpose of activity:

To implement storm protection measures along the shoreline of Baldwin Park to minimize further erosion and damage from storms

3. Location of activity:

Nassau	Town of Hempstead	Baldwin Park
County	City, Town, or Village	Street or Site Description

4. Type of federal permit/license required: CDBG-DR Funding

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:

_____

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*)		✔

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, New York State Governor's Office of Storm Recovery

Address: 500 Bi-County Boulevard Farmingdale, NY 11735

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

Applicant/Agent's Signature: ___ James M. [illegible] ___ Date: ___May 21, 2019_____

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.

Summary of Compliance with Applicable DOS Policies

I. PROJECT DECRIPTION

The Town of Hempstead is proposing implementation of shoreline improvements within the Town of Hempstead's Baldwin Park located at 3232 Grand Avenue, Baldwin, New York. The Proposed Project was developed to stabilize the property, provide storm surge protection and to improve and expand recreational use of the Park by the public along the waterfront. The Proposed Project site is situated within Section 54, Block H, Lot 391, a 14.6-acre parcel formerly occupied by a Board of Cooperative Education Services (BOCES) School Facility (see **Attachment 1, Project Location Maps**).

The Proposed Project would include:

- Installation of sediment control/surface water protection devices followed by installation of a temporary cofferdam.
- Removal of 1,600 linear feet of existing and compromised timber bulkhead.
- Rough grading to provide for 1,600 feet of living shoreline. The living shoreline would consist of an armored toe stabilization set at the mean highwater line designed with large revetment stones protecting a stone core.
- In-place and in-kind replacement of approximately 800 linear feet of existing timber bulkhead with approximately 138 new 12-inch diameter timber piles to be installed using an impact hammer along the replacement bulkhead; a vibratory hammer will be utilized to facilitate the installation of new vinyl sheeting. The new bulkhead would be set with a top elevation of 5.25, consistent with the existing timber bulkhead elevation.
- Removal of five existing outfalls and associated catch basins.
- Removal of 36 trees in poor condition to be replaced with 63 trees along the shoreline.
- Construction of an approximately 0.3-acre gravel parking lot near the northern section of the site.
- Construction of an eight-foot wide gravel pedestrian path.
- Construction of a permanent waterfront landing for non-motorized equipment (canoes and kayaks) for use by the public.

II. POLICY QUESTION EXPLANATIONS

Policy 1: Restore, revitalize, and redevelop deteriorated and underutilized waterfront areas for commercial, industrial, cultural, recreational, and other compatible uses.

Response: The Proposed Project will indeed serve to restore, revitalize and redevelop the deteriorated and underutilized east waterfront area of Baldwin Park, which has been vacant and inaccessible to the public since 2008. The Proposed Project is anticipated to protect this portion of the Park's waterfront area by replacing the existing and compromised timber bulkhead, while constructing a new pedestrian path and kayak/canoe removable launch for use by the public. Therefore, it is anticipated that the Proposed Project is consistent with this policy.

Policy 2: Facilitate the siting of water-dependent uses and facilities on or adjacent to coastal waters.

Response: The Proposed Action involves shoreline stabilization and other improvements at Baldwin Park which would enhance waterfront recreation and visual enjoyment for the surrounding community. Project activities will include reconstructing the existing timber bulkhead to stabilize the shoreline adjacent to the waterfront. A new kayak/canoe removable launch will be constructed for use by the public. Thus, this action is in conformance with Policy 2.

Policy 5: Encourage the location of development in areas where public services and facilities essential to such development are adequate.

Response: Baldwin Park is operated by the Town of Hempstead, and currently offers a multitude of recreational facilities, including basketball, handball, paddleball, tennis, volleyball, spray pool, soccer, softball, baseball, playground, game tables, play equipment, sitting area, shuffleboard, bike paths, roller rink and Baldwin Skate Park. The Proposed Project, situated on the eastern section of Baldwin Park, would expand water-related recreational opportunities by the provision of a dedicated parking area and new kayak/canoe launch. The Proposed Project will make beneficial use of the coastal location by providing more opportunity to utilize open space resources at Baldwin Park. Therefore, it is anticipated that the Proposed Project is consistent with this policy.

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 Proposed Project involves soil stabilization measures to combat erosion and sedimentation into the existing tidal marsh communities found on the project site. This would enhance water quality in the Oakwood Canal and Middle Bay region. In addition, the removal of 1,600 linear feet of existing and compromised timber bulkhead would be replaced by a living shoreline with an additional 800 linear feet of in-kind bulkhead replacement. The living shoreline would make the shoreline more resilient while minimizing the amount of hard features through use of low and high marsh plantings. . Thus, the project is in conformance with Policy 7.

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 Proposed Project is located in a FEMA designated 100-year floodplain (SFHA Zone AE). The project will include shoreline improvements for flood, hurricane and stormwater control. The project will not involve construction of residential buildings in a coastal erosion or coastal high hazard area. Human lives will not be endangered by the project. Thus, the project is in conformance 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 shoreline improvements would involve the creation of a gently sloping, living shoreline which is expected to serve as a vegetative buffer. Native low marsh and high marsh vegetation will be installed in the area landward of the gabions below the planes of MHW and SHW, respectively. Thus, the Proposed Project would restore natural habitat while minimizing damage to property from flooding. Thus, the project is in conformance with Policy 12.

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: Removal of 1,600 linear feet of an existing and compromised timber bulkhead would be replaced by a living shoreline. The living shoreline would consist of an armored toe stabilization set at the mean high water line designed with large revetment stones protecting a stone core. In-place and in-kind replacement of approximately 800 linear feet of bulkhead is also proposed. Project plans were designed to ensure that the reconstruction of erosion protection structures on site would serve to control erosion for at least thirty years. Therefore, it is anticipated that 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 timber bulkheads at Baldwin Park are in need of rehabilitation to protect the area from storm surges and tidal wave activity. The existing timber bulkheads that surround both project areas exhibit signs of deterioration to the point where the areas upslope of the bulkhead are being eroded in multiple locations due to bulkhead breaches. During times of heavy precipitation, soil erosion into the surrounding waterbodies continues to this day, adversely affecting water quality. The proposed project would help protect both water quality and a key

community natural and cultural asset from future flood risk and erosion. The Proposed Project includes no above ground structures outside of the project boundaries. Therefore, it is anticipated that the Proposed Project is consistent with this policy.

Policy 15: Mining, excavation or dredging in coastal waters shall not significantly interfere with the natural coastal processes which supply beach materials to land adjacent to such waters and shall be undertaken in a manner which will not cause an increase in erosion of such land.

Response: The Proposed Action would involve some excavation and filling as part of the timber bulkhead replacement and creation of a gently sloping, living shoreline. Excavation or dredging would be conducted in conformance with all applicable federal, state and local permit requirements in order to protect significant fish and wildlife habitats, scenic resources, natural protective features and wetlands. Additionally, the Proposed Project will incorporate best management practices to minimize damage to natural resources. Proposed activities will in no way interfere with natural coastal processes relating to beach material or erosion of nearby property. Therefore, it is anticipated that the Proposed Project is consistent with Policy 15.

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 would include shoreline improvements to control and limit future damage to public parklands during future high-water events. The Proposed Project would reduce erosion and sedimentation into the Oakwood Canal and Middle Bay by the establishment of a living shoreline which will serve to provide bank stabilization. In addition, the project will enhance recreational opportunities for the local community. Therefore, it is anticipated that 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: Consistent with the policy, approximately 1,600 feet of existing deteriorated timber bulkhead will be replaced using a gently sloping, living shoreline. The living shoreline will make the shoreline more resilient while minimizing the amount of hard features through use of low and high marsh plantings. Therefore, it is anticipated that the Proposed Project is consistent with this policy.

Policy 19: Protect, maintain, and increase the level and types of access to public water related recreation resources and facilities.

Response: By creating a pedestrian pathway along the waterfront and constructing a new kayak/canoe launch, the Proposed Project will serve to increase public access and the use of public lands and waters. The proposed project would also provide access to the Blueway Trail, a recreational water trail with a network of public access points. This will enable residents to enjoy open space and recreational activities. Therefore, it is anticipated that the Proposed Project is consistent with this policy.

Policy 20: Access to the publicly-owned foreshore and to lands immediately adjacent to the foreshore or the water's edge that are publicly-owned shall be provided and it shall be provided in a manner compatible with adjoining uses.

Response: The Proposed Action entails shoreline improvements within an established park. The proposed construction of a dedicated parking area, pedestrian pathway and kayak /canoe launch would provide the public with access to an underutilized portion of the waterfront. Consistent with the policy, the Proposed Project would will restore and revitalize the project area and allow for their continued use and enjoyment by the public, in conformance with Policy 20.

Policy 21: Water dependent and water enhanced recreation will be encouraged and facilitated, and will be given priority over non-water-related uses along the coast.

Response: The Proposed Project will serve to enhance water dependent and water enhanced recreation by the establishment of a new pedestrian pathway to the shoreline and the construction of a new kayak/canoe launch. The

Proposed Project will be considered a benefit to the public's water dependent and water-enhanced recreation. Therefore, it is anticipated that the Proposed Project is consistent with Policy 21.

Policy 22: Development when located adjacent to the shore will provide for water-related recreation whenever such use is compatible with reasonably anticipated demand for such activities, and is compatible with the primary purpose of the development.

Response: Proposed Project plans were developed with the intent to provide water-related recreation, which would expand current recreational activities at Baldwin Park. Development of a waterfront pathway and kayak /canoe launch is compatible with land uses already associated with Baldwin Park. Therefore, it is anticipated that the Proposed Project is consistent with Policy 22.

Policy 28: Ice management practices shall not interfere with the production of hydroelectric power, damage significant fish and wildlife and their habitats, or increase shoreline erosion or flooding.

Response: The Proposed Project would include shoreline improvements for flood, hurricane and stormwater control including sediment erosion control, as well as the construction of a living shoreline. Proposed Project activities are expected to benefit significant fish and wildlife habitats while decreasing shoreline erosion and flooding. The Proposed Project will not occur in the vicinity of a hydroelectric power facility. Therefore, the project activities are consistent with Policy 28.

Policy 35: Dredging and filling in coastal waters and disposal of dredged material will be undertaken in a manner that meets existing State dredging permit requirements, and protects significant fish and wildlife habitats, scenic resources, natural protective features, important agricultural lands, and wetlands.

Response: Approximately 800-linear feet of existing timber bulkhead in Middle Bay and the Oakwood Canal would be replaced in kind with a new vinyl bulkhead, up to 12-inches higher, and will then be backfilled behind the bulkhead with clean material. Approximately 138 new 12-inch diameter timber piles would be installed, using a vibratory hammer, for the replacement bulkhead. Two eroded areas behind the bulkhead, approximately 0.04-acre in size, would be filled with approximately 85 cubic yards of clean material. A temporary cofferdam would be installed in Middle Bay and Oakwood Canal to dewater the work area.

Approximately 1,600-linear feet of an existing timber bulkhead and pilings in Oakwood Canal will be cut to elevation 0.00-feet NAVD, approximately 2.28-feet above the plane of Mean Low Water (MLW) and approximately 1.95-feet below the plane of Mean High Water (MHW). The existing upland shoreline will be excavated behind the bulkhead to an elevation of six-feet deep. Gabions will be installed, approximately three-feet wide by six-feet tall immediately landward of the cut bulkhead for 1,600-linear feet (1,066 cubic yards below SHW). The top of the gabions would be flush with the top of the cut bulkhead (Elevation 0.00-feet NAVD). The area landward of the gabions will be backfilled to the plane of Spring High Water (SHW), an area approximately 12-feet wide by 1,600-feet long (0.44-acre), with approximately 1,066 cubic yards of clean material placed below the plane of SHW. High and low marsh vegetation will be planted in the area landward of the gabions below the planes of MHW and SHW, respectively. One section of the shoreline stabilization would consist of a water access point, approximately 18-feet wide and 15-feet long (270-square feet), including a reno rock mattress, approximately one-foot deep (33 cubic yards of fill below the plane of SHW). A temporary cofferdam would be installed in Oakwood Canal to dewater the work area. The work would be completed in 'sections', moving the cofferdam as needed.

Prior to construction, permit authorizations will be obtained including Article 25 Tidal Wetlands, Section 401 Water Quality Certification, Federal Clean Water Act, Article 34 Coastal Erosion Management Article 15, Title 5 Excavation and Fill in Navigable Waters. The Proposed Project will be conducted in conformance with all applicable federal, state and local permit requirements and conditions. Additionally, best management practices will be incorporated to minimize impacts to natural resources. Therefore, the project activities are consistent with Policy 35.

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

Response: The proposed project would benefit existing wetland areas by expanding existing tidal marsh communities. The Proposed Project will ultimately help to preserve and protect tidal wetlands and the benefits derived from these areas. Therefore, the project activities are consistent with Policy 44.

STATE OF NEW YORK
DEPARTMENT OF STATE
ONE COMMERCE PLAZA
99 WASHINGTON AVENUE
ALBANY, NY 12231-0001
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ANDREW M. CUOMO
GOVERNOR

ROSSANA ROSADO
SECRETARY OF STATE

April 25, 2019

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-2019-0527(FA)**
Governor's Office of Storm Recovery / Town of Hempstead
(Baldwin Park Shoreline Stabilization)
Federal funding for the removal and replacement of timber bulkheads. Construct a living shoreline, pedestrian walkway and kayak launch.
Town of Hempstead, 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 5/21/2019 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-2019-0527(FA).

Sincerely,

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

MM/dc

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

Governor's Office of
Storm Recovery

ANDREW M. CUOMO
Governor

LISA BOVA-HIATT
Executive Director

January 11, 2017

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

Sent via email to: naturalhertitage@dec.ny.gov

Re: Natural Heritage Compliance Process Request
Baldwin Park Water Esplanade
Town of Hempstead, 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 Baldwin Park Water Esplanade Project located within Blocks 391 and 590 in the Town of Hempstead, Nassau County, New York (Proposed Action). Block 391 is located with the Town of Hempstead's Baldwin Park, which has a street address of 3232 Grand Avenue, Baldwin, New York, 11510. The Block 391 portion of the Project Site consists of a roughly 14 acre parcel, a former Board of Cooperative Education Services (BOCES) Facility. The Block 590 Project Site is situated east of Baldwin Park, across the Oakwood Canal near the terminus of Bertha Court in Baldwin Harbor (**see Figure 1 and Figure 2**); a vacant lot consisting of approximately 0.6 acres. The Proposed Action is needed to repair and replace deteriorating bulkheads and to protect community assets and nearby residences from the effects of future tidal/storm surge and further erosion.

The Proposed Action within the Block 391 site (14 acres) would include:

- Removal of 1,550 linear feet of an existing and compromised timber bulkhead to be replaced by a living shoreline. The living shoreline would consist of an armored toe stabilization set at the mean highwater line designed with large revetment stones protecting a stone core. The living shoreline will make the shoreline more resilient while minimizing the amount of hard features through use of low and high marsh plantings.
- An in-place and in-kind replacement of approximately 800 linear feet of existing timber bulkhead; new bulkhead would be set with a top elevation of 5.25, consistent with the existing timber bulkhead elevation.
- Removal of two sets of existing piping and inlets. Inlets would be replaced and reset to the proper elevation following the completion of earthwork.

- Construction of an eight-foot wide paved pedestrian promenade and a parallel drainage swale.
- Construction of concrete stairs leading to a new kayak/canoe removable launch for use by the public.

The Proposed Action within the Block 590 parcel (0.6 acres) would include the in-place and in-kind replacement of the existing 500 linear feet of timber bulkhead, which currently spans the property's waterfront. The bulkhead in this section would be set at an elevation of nine, in accordance with 100 year floodplain elevation requirements, which is higher than the existing timber bulkhead. The timber bulkhead replacement would tie into existing bulkheads set at elevation 5.25 on both sides of the property.

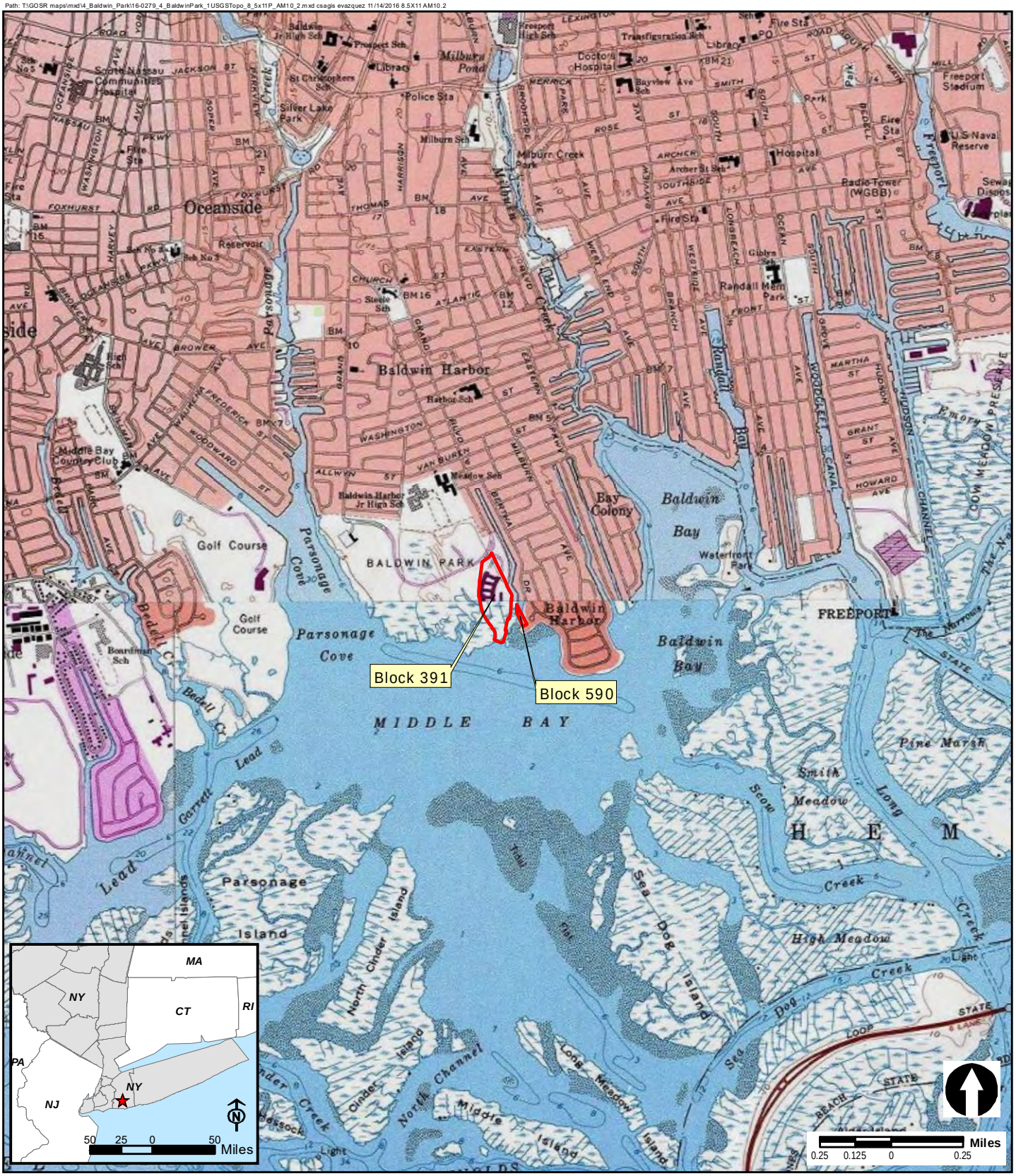
The purpose of this letter is to provide the New York State Department of Environmental Conservation Natural Heritage Program notice of the Proposed Action and to determine whether the Proposed Action has the potential to impact any state or federal endangered, threatened, and/or rare species or significant natural communities. A USGS topographic regional location map and aerial photograph showing the project location(s) are attached. If you have any questions, please feel free to contact me via via telephone number (212) 480-6265 or email: matt.accardi@stormrecovery.ny.gov. Thank you for your consideration and cooperation.

Sincerely,

Matt Accardi
Bureau of Environmental Review and Assessment

Enclosures:
Project Location Maps

Path: T:\GOSR maps\mxd\4_Baldwin_Park\16-0279_4_BaldwinPark_1USGSTopo_8_5x11P_AM10_2.mxd csagis evazquez 11/14/2016 8.5X11 AM10.2



Project Site

Figure 1

USGS Regional Location

Baldwin Park Water Esplanade Project

Hempstead, Nassau County, NY

Source: USGS Topgraphic Map, Far Rockaway Quadrangle
Copyright:© 2013 National Geographic Society, i-cubed
(http://server.arcgisonline.com/ArcGIS/rest/services/
USA_Topo_Maps/MapServer)

CSA Group

Path: T:\GOSR maps\mxd\4_Baldwin_Park\16-0279_4_BaldwinPark_2SiteLocation_8_5x11P_AM10_2.mxd csagis evazquez 11/14/2016 8.5X11 AM10.2

Project Site

Figure 2

Project Area

Baldwin Park Water Esplanade Project

Hempstead, Nassau County, NY

Source: NYC Department of City Planning, Information Technology Division; ESRI World Imagery

CSA Group

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Fish, Wildlife & Marine Resources
New York Natural Heritage Program
625 Broadway, 5th Floor, Albany, New York 12233-4757
Phone: (518) 402-8935 • **Fax:** (518) 402-8925
Website: www.dec.ny.gov

January 18, 2017

Matt Accardi
Governor's Office of Storm Recovery
25 Beaver Street, 5th Floor
New York, NY 10004

Re: Baldwin Park Water Esplanade Project -- repair and replace deteriorating bulkheads
Town/City: Hempstead. County: Nassau.

Dear Mr. Accardi:

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 at the project site or in its immediate vicinity. There is high and low salt marsh in Baldwin Park adjacent to the west side of the Block 391 site. This salt marsh is part of a significant occurrence of salt marsh along the shores of Hempstead Bay. We recommend that the project work be carried out in a manner that avoids detrimental impacts to the salt marsh.

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, as listed at www.dec.ny.gov/about/39381.html.

Sincerely,

Nicholas Conrad
Information Resources Coordinator
New York Natural Heritage Program

1713

Governor's Office of
Storm Recovery

ANDREW M. CUOMO
Governor

December 17, 2018 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

iPAC Consultation Code: 05E1LI00-2017-SLI-0075
05E1LI00-2018-E-01837 (update)

Re: Section 7 Project Review - No Effect Determination
Baldwin Park Shoreline Stabilization
Town of Hempstead, Nassau County, NY

Dear Mr. Papa:

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 Baldwin Park Shoreline Stabilization Project located within Section 54, Block H, Lot 391, a 14.6-acre parcel formerly occupied by a Board of Cooperative Education Services (BOCES) Facility (**see Attachment A, Figure 1 and Figure 2**). The former BOCES development consisted of a school building, roadways, parking, and associated infrastructure including sewage, stormwater, and electric. The school was demolished in the late 1980's when the lease expired and BOCES moved its facility to a different location. The Proposed Action is needed to repair and replace the existing deteriorating bulkhead and to protect community assets and nearby residences from the effects of future tidal/storm surge and further erosion.

Project Description

The Proposed Project would include:

- Removal of 1,600 linear feet of existing and compromised timber bulkhead to be replaced by a living shoreline. The living shoreline would consist of an armored toe stabilization set at the mean highwater line designed with large revetment stones protecting a stone core. The living shoreline will make the shoreline more resilient while minimizing the number of hard features through use of low and high marsh plantings.

- In-place and in-kind replacement of approximately 800 linear feet of existing timber bulkhead; new bulkhead would be set with a top elevation of 5.25, consistent with the existing timber bulkhead elevation.

- Construction of an approximately 0.3-acre gravel parking lot near the northern section of the site.
- Construction of an eight-foot wide gravel pedestrian path.
- Construction of a permanent waterfront landing for non-motorized equipment (canoes and kayaks) for use by the public.

The purpose of this letter is to provide the U.S. Fish and Wildlife Service – Long Island Ecological Services Field Office (USFWS), notice of the proposed project and to document compliance with Section 7 of the Endangered Species Act (ESA) and the Migratory Bird Treaty Act (MBTA). As discussed below, we have reviewed the project and found that it does not jeopardize the continued existence of ESA species or destroy or adversely modify their critical habitat. This letter requests acknowledgement from the USFWS that they have received our No Effect Determination regarding the subject project provided in this letter, and that USFWS has no objections to the No Effect Determination.

Compliance with Endangered Species Act

Review of the USFWS IPaC database system (accessed September 10, 2018) 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 request for species records within the project area was sent to the New York State Natural Heritage Program (NYSNHP). A response was received (included as **Attachment C**) indicating that the NYSNHP has no records of rare or state-listed animals or plants at the project site or in its immediate vicinity. However, there is documented occurrence of high and low salt marsh in Baldwin Park adjacent to the west side of the project area; and this salt marsh is part of a significant occurrence of salt marsh along the shores of Hempstead Bay. NYSNHP recommended that the project work be carried out in a manner that avoids detrimental impacts to the salt marsh.

A description of each federally endangered or threatened species identified by USFWS and the likelihood that the species occurs within the project area, is provided below. Species' descriptions are summarized from New York State Department of Environmental Conservation (NYSDEC) fact sheets and USFWS species profiles 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	Highly unlikely 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 shoreline improvements are located along the Oakwood Canal, which is a narrow vegetated waterway surrounded by residential development. 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.

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.
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.
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.
Northern long eared bat (*Myotis septentrionalis*)	none	Threatened	Highly unlikely, 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. Although there are forested areas found within Baldwin Park, these communities are small and fragmented, interspersed between turf that is regularly maintained by mowing. A total of 24 trees will be removed to allow for the Proposed Project; 65 new trees will be planted. Trees to be removed consist of immature species that do not provide habitat for NLEB. Further, the proposed project is located in a highly developed area and there are no records of the northern long-eared bat in the vicinity of the project area, therefore, individual northern long-eared bats are not expected to occur in the project area. The proposed action would have no adverse effect on this species.

Source: Official Species List, USFWS iPAC System (accessed September 10, 2018)

Migratory Bird Treaty Act (MBTA)

The Proposed Project would occur within the Atlantic Flyway. However, because the majority of the Proposed Project would occur on or near publicly accessible areas which are routinely subject to human disturbance, GOSR has determined that the Proposed Action would have no significant adverse impact to migratory birds or their habitat. Furthermore, timing restrictions will be in place for the purpose of having no effect on migratory bird breeding seasons. Therefore, it is anticipated that migrating birds would not be impacted by the Proposed Project.

Coastal Barrier Resources Act (CBRA)

The Proposed Project, and the entire Baldwin Park in which it is located, with its administrative buildings, recreational facilities, roadways and related infrastructure are situated within the Fire Island Unit (NY-59) of the Coastal Barrier

Resources System (CBRA). The Fire Island Unit, extends north in this area from the Long Beach and Jones Beach Barrier Islands, encompassing the Baldwin Park property on the Long Island mainland (see **Attachment D)**. The CBRA generally prohibits federal financial assistance for actions undertaken within System Units of the Coastal Barrier Resources System (16 U.S.C. § 3504). However, it is GOSR's position that the Proposed Project falls within the CBRA's exception for "[t]he maintenance, replacement, reconstruction, or repair, but not the expansion, of publicly owned or publicly operated roads, structures, or facilities that are essential links in a larger network or system." (16 U.S.C. § 3505(a)(6)(F)).

The Proposed Project conforms with the CBRA exception mentioned above because the Proposed Project would involve the reconstruction-in-kind and in-place of an existing, deteriorated, shoreline stabilization system serving Baldwin Park. The Proposed Project would not encourage, or provide for, development or modification of the subject site, which is located on mainland Long Island, north the Long Beach and Jones Beach Barrier Islands. Rather, the Proposed Project is necessary to prevent further deterioration of the Baldwin Park property and to protect surrounding development and waterbodies from the effects of further erosion and sedimentation.

The proposed activity is consistent with the tripartite purpose of the CBRA.

First, activities considered by the Proposed Project are protective of both human health and the environment. Improvements to the bulkhead and replacement with a living shoreline that prevent erosion will make Baldwin Park more resistant to storms. Further, the activities undertaken by the State will help prevent the discharge of sediment into the Oakwood Canal, by stabilizing the shoreline with a new bulkhead replacing the existing failing bulkhead. If no action is taken, a subsequent storm event could result in further erosion of Baldwin Park's shoreline and discharge of sediment laden water into the adjacent waterbody. Moreover, the Proposed Project would not result in the development of buildings or structures on the barrier island that the CBRA seeks to avoid. In order to maintain the environmental quality of South Oyster Bay and the adjacent Oakwood Canal, the current deteriorated bulkhead must be replaced and it is the intent of GOSR to ensure that this is accomplished in harmony with the environment, through the less-impactful green infrastructure methods.

Second, federal financial assistance to support these activities is not a wasteful use of federal resources; the Proposed Project represents a long-term public investment in a piece of critical infrastructure that is necessary to protect the water quality of South Oyster Bay and Oakwood Canal and the significant habitats contained therein. Investing in the Proposed Project would protect federal investments by mitigating potential risks posed by extreme weather events and the associated increased flooding and sediment discharge that threaten the integrity of the existing shoreline stabilization system. Federal funding would not have the effect of encouraging development of coastal barriers and is not being used for development of commercial, residential or other structures that CBRA construes as wasteful. Rather, federal funding would support the replacement of critical shoreline stabilization at Baldwin Park.

Finally, the Proposed Project would minimize damage to fish and wildlife by enhancing critical environmentally-sensitive areas to help achieve the long-term conservation of natural resources. Rather than replacing the deteriorated bulkhead system utilizing traditional methods, the Proposed Project would utilize the creation of a living shoreline which would add over an acre of wetlands. As discussed above, the Proposed Project is not likely to adversely affect threatened or endangered species, and will help to preserve the water quality of South Oyster Bay and the Oakwood Canal.

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 List
Attachment C: NYSNHP Correspondence
Attachment D: CBRA Maps

Literature Reviewed

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Attachment A: Project Location Maps

Baldwin Park Shoreline Stabilization Project

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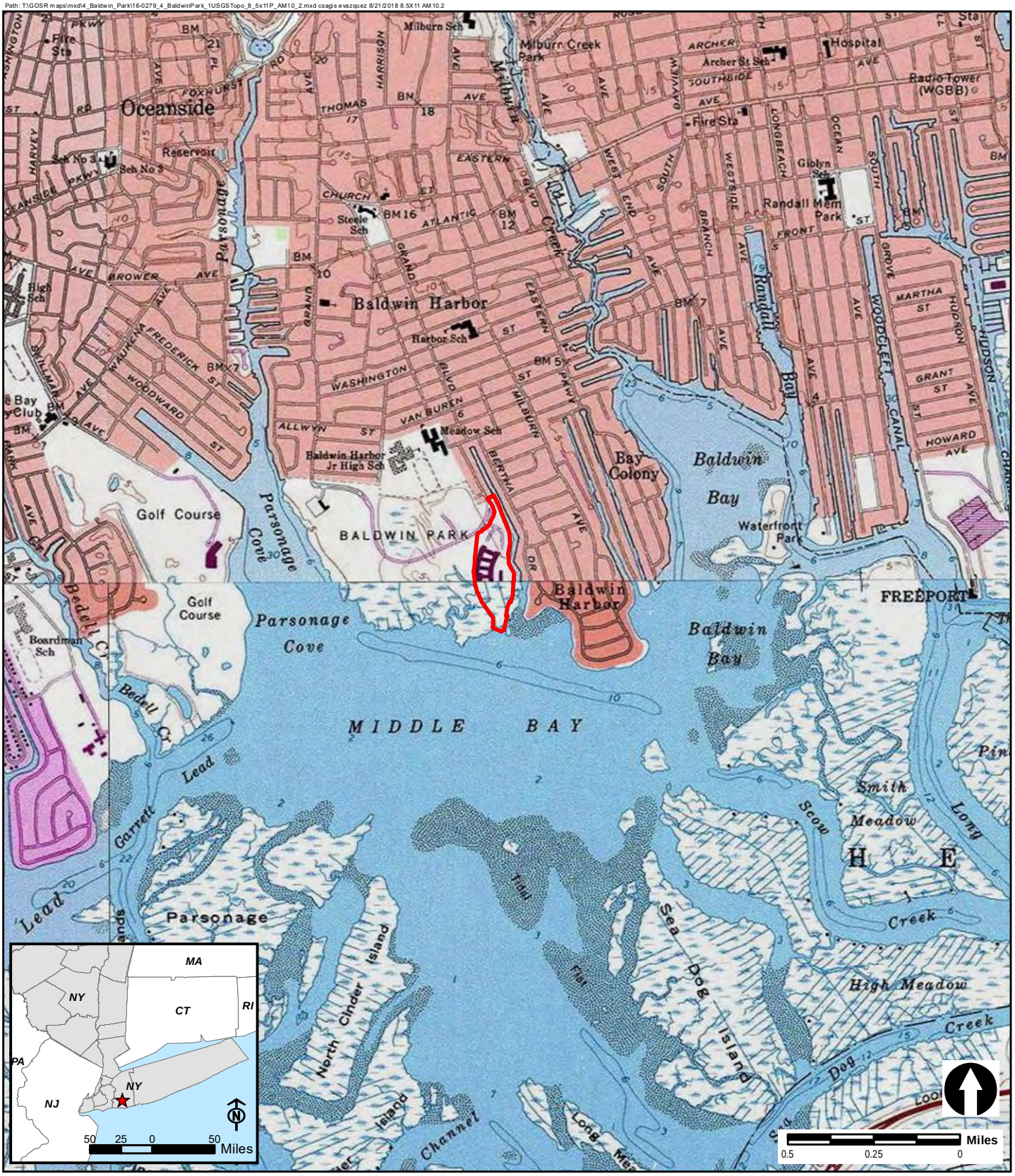

Project Site

Figure 1

USGS Regional Location

Baldwin Park Shoreline Stabilization Project

Hempstead, Nassau County, NY

Source: USGS Topgraphic Map, Far Rockaway Quadrangle
Copyright:© 2013 National Geographic Society, i-cubed
(http://server.arcgisonline.com/ArcGIS/rest/services/
USA_Topo_Maps/MapServer)

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Project Site
Living Shoreline
Bulkhead

Figure 2

Project Area

Baldwin Park Shoreline Stabilization Project

Hempstead, Nassau County, NY

Source: New York State Department of Transportation, 2013;
ESRI World Imagery

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Attachment B: Offical Species List

Baldwin Park Shoreline Stabilization 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: September 10, 2018
Consultation Code: 05E1LI00-2017-SLI-0075
Event Code: 05E1LI00-2018-E-01837
Project Name: Baldwin Park Water Esplanade

Subject: Updated 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: 05E1LI00-2017-SLI-0075

Event Code: 05E1LI00-2018-E-01837

Project Name: Baldwin Park Water Esplanade

Project Type: ** OTHER **

Project Description: Shoreline stabilization and enhancement of public use

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/40.625516434900966N73.60321809881553W

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

Critical habitats

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

Attachment C: NY Heritage Correspondence

Baldwin Park Shoreline Stabilization Project

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Fish, Wildlife & Marine Resources
New York Natural Heritage Program
625 Broadway, 5th Floor, Albany, New York 12233-4757
Phone: (518) 402-8935 • **Fax:** (518) 402-8925
Website: www.dec.ny.gov

January 18, 2017

Matt Accardi
Governor's Office of Storm Recovery
25 Beaver Street, 5th Floor
New York, NY 10004

Re: Baldwin Park Water Esplanade Project -- repair and replace deteriorating bulkheads
Town/City: Hempstead. County: Nassau.

Dear Mr. Accardi:

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 at the project site or in its immediate vicinity. There is high and low salt marsh in Baldwin Park adjacent to the west side of the Block 391 site. This salt marsh is part of a significant occurrence of salt marsh along the shores of Hempstead Bay. We recommend that the project work be carried out in a manner that avoids detrimental impacts to the salt marsh.

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, as listed at www.dec.ny.gov/about/39381.html.

Sincerely,

Nicholas Conrad
Information Resources Coordinator
New York Natural Heritage Program

1713

Governor's Office of
Storm Recovery

ANDREW M. CUOMO
Governor

LISA BOVA-HIATT
Executive Director

January 11, 2017

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

Sent via email to: naturalhertitage@dec.ny.gov

Re: Natural Heritage Compliance Process Request
Baldwin Park Water Esplanade
Town of Hempstead, 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 Baldwin Park Water Esplanade Project located within Blocks 391 and 590 in the Town of Hempstead, Nassau County, New York (Proposed Action). Block 391 is located with the Town of Hempstead's Baldwin Park, which has a street address of 3232 Grand Avenue, Baldwin, New York, 11510. The Block 391 portion of the Project Site consists of a roughly 14 acre parcel, a former Board of Cooperative Education Services (BOCES) Facility. The Block 590 Project Site is situated east of Baldwin Park, across the Oakwood Canal near the terminus of Bertha Court in Baldwin Harbor (**see Figure 1 and Figure 2**); a vacant lot consisting of approximately 0.6 acres. The Proposed Action is needed to repair and replace deteriorating bulkheads and to protect community assets and nearby residences from the effects of future tidal/storm surge and further erosion.

The Proposed Action within the Block 391 site (14 acres) would include:

- Removal of 1,550 linear feet of an existing and compromised timber bulkhead to be replaced by a living shoreline. The living shoreline would consist of an armored toe stabilization set at the mean highwater line designed with large revetment stones protecting a stone core. The living shoreline will make the shoreline more resilient while minimizing the amount of hard features through use of low and high marsh plantings.
- An in-place and in-kind replacement of approximately 800 linear feet of existing timber bulkhead; new bulkhead would be set with a top elevation of 5.25, consistent with the existing timber bulkhead elevation.
- Removal of two sets of existing piping and inlets. Inlets would be replaced and reset to the proper elevation following the completion of earthwork.

- Construction of an eight-foot wide paved pedestrian promenade and a parallel drainage swale.
- Construction of concrete stairs leading to a new kayak/canoe removable launch for use by the public.

The Proposed Action within the Block 590 parcel (0.6 acres) would include the in-place and in-kind replacement of the existing 500 linear feet of timber bulkhead, which currently spans the property's waterfront. The bulkhead in this section would be set at an elevation of nine, in accordance with 100 year floodplain elevation requirements, which is higher than the existing timber bulkhead. The timber bulkhead replacement would tie into existing bulkheads set at elevation 5.25 on both sides of the property.

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. A USGS topographic regional location map and aerial photograph showing the project location(s) are attached. If you have any questions, please feel free to contact me via via telephone number (212) 480-6265 or email: matt.accardi@stormrecovery.ny.gov. Thank you for your consideration and cooperation.

Sincerely,

Matt Accardi
Bureau of Environmental Review and Assessment

Enclosures:
Project Location Maps

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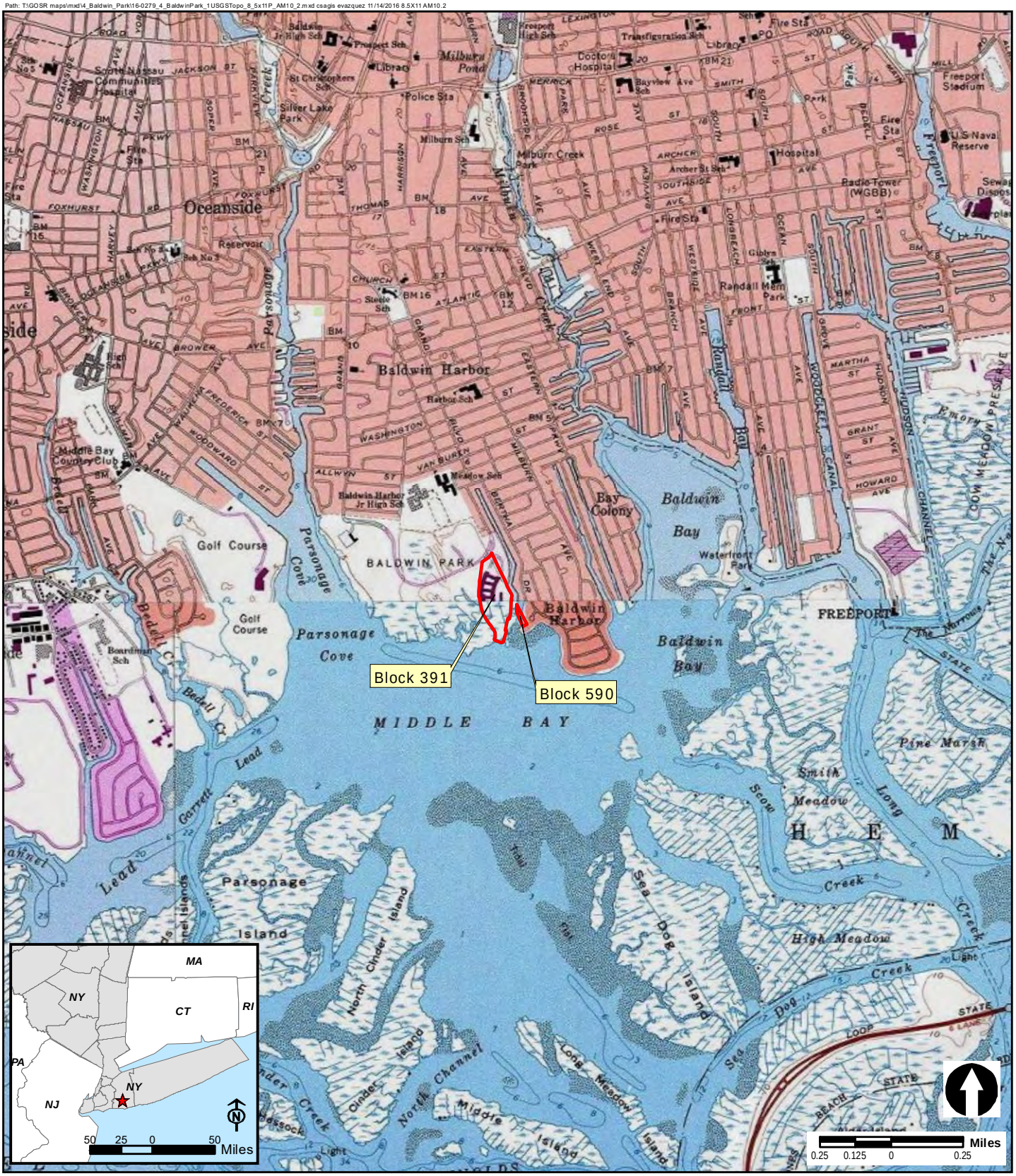

Project Site

Figure 1

USGS Regional Location

Baldwin Park Water Esplanade Project

Hempstead, Nassau County, NY

Source: USGS Topgraphic Map, Far Rockaway Quadrangle
Copyright:© 2013 National Geographic Society, i-cubed
(http://server.arcgisonline.com/ArcGIS/rest/services/
USA_Topo_Maps/MapServer)

CSA Group

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Project Site

Figure 2

Project Area

Baldwin Park Water Esplanade Project

Hempstead, Nassau County, NY

Source: NYC Department of City Planning, Information Technology Division; ESRI World Imagery

CSA Group

Attachment D: CBRA Graphics

Baldwin Park Shoreline Stabilization Project

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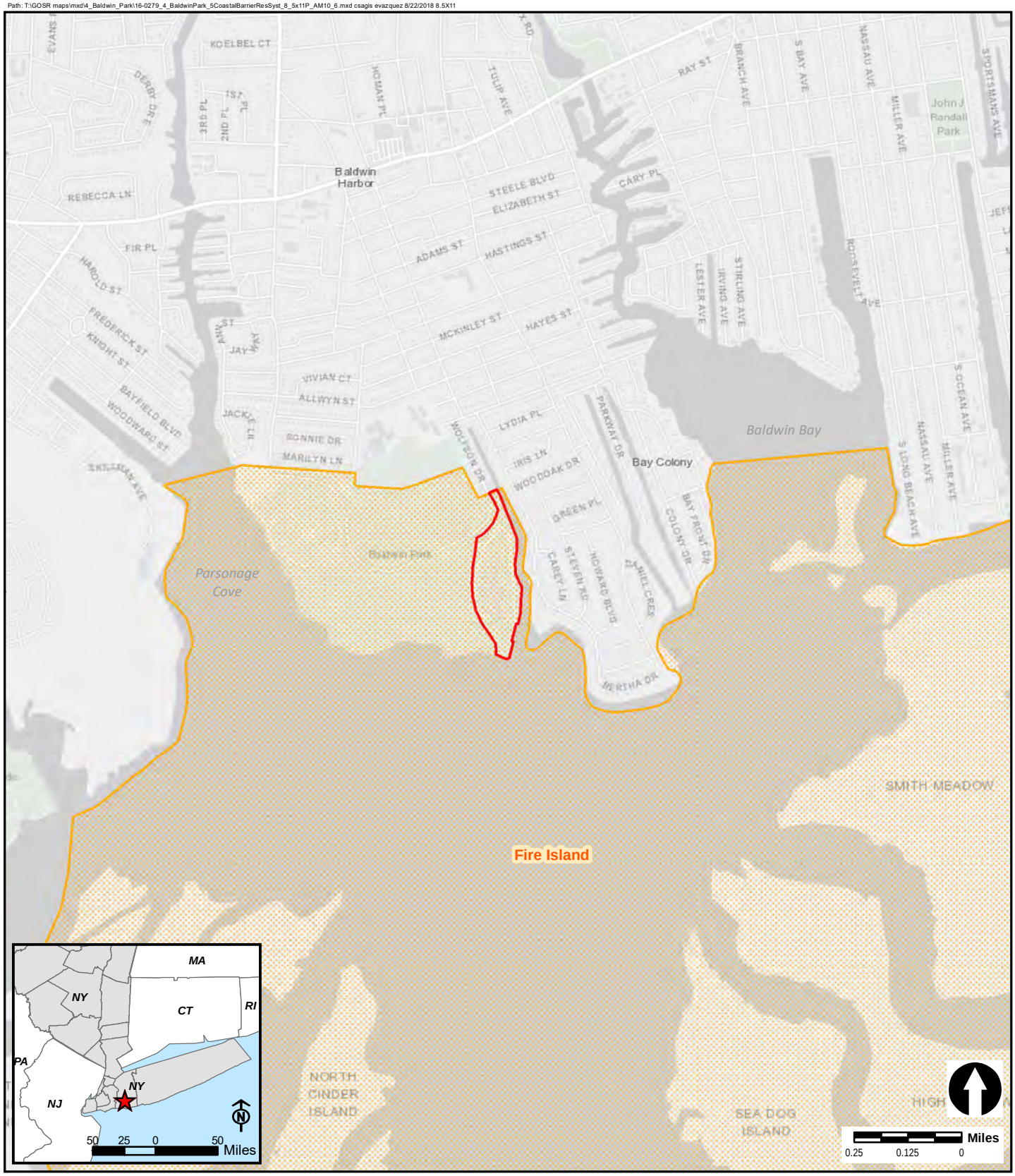

Project Site

Coastal Barrier Resource System

Figure 3

Coastal Barrier Resource System

Baldwin Park Shoreline Stabilization Project

Hempstead, Nassau County, NY

Source: U.S. Fish and Wildlife Service (3-14-2016);
ESRI World Light Gray Canvas Basemap

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife
625 Broadway, 5th Floor, Albany, NY 12233-4750
P: (518) 402-8924 | F: (518) 402-8925
www.dec.ny.gov

September 11, 2018

Ms. Alicia Shultz
Governor's Office of Storm Recovery
30-40 State St., Hampton Plaza
Albany, NY 12207

RE: Baldwin Park Shoreline Stabilization Project, Hempstead, Nassau County, NY

Dear Ms. Shultz,

We received your jurisdictional inquiry request for the project involving the stabilization of the shoreline in Baldwin Park, Hempstead, Nassau County. It is our understanding that approximately 1600 feet of living shoreline will be created, and that approximately 800 feet of bulkhead will be replaced. Based on our understanding of the project, and the NYS Resources map created by Amanda Bailey on 9/11/2018 (attached), we have the following comments on the project:

STATE-LISTED SPECIES

All threatened or endangered species are subject to regulation under Article 11, Title 5 of the Environmental Conservation Law and a permit is required for a taking of that species pursuant to 6 NYCRR Part 182. Besides death of individuals, taking includes harassment, interference with essential behaviors, and adverse modification of habitat. **If the site is in close proximity to known occurrences of state-protected species, additional information on the proposal will be required by the appropriate regional office for a determination on the need for an incidental take permit.**

We have reviewed the available information in the New York Natural Heritage Program database on known occurrences of rare or state-listed bat species. This project area does not occur in the immediate vicinity of known occurrences of rare or state-listed bat species (see NYS Resources map, attached). The major concern for bat species in relation to this project would be the destruction of potential roosts and roosting habitat that may occur if tree clearing is required. Because this project does not take place within known occupied habitat, there are no restrictions on cutting.

The absence of data does not necessarily mean that any rare or state-listed bat species do not exist on or adjacent to the proposed site. For most sites, comprehensive field surveys have not been conducted. We cannot provide a definitive statement on the presence of all rare or state-listed bat species. To avoid potential take, DEC *recommends* that any tree clearing be conducted between November 1 and March 31, when bats are inactive in hibernation sites. DEC also recommends that all snag and cavity trees remain uncut, unless their removal is necessary for protection of human life and property. For more information, please refer to the DEC Northern long-eared bat protective measures guidance, available at: http://www.dec.ny.gov/animals/106090.html.

This document is only intended to address state-listed bat species. Other rare or state-listed species, natural communities or other significant habitats may exist within the project area and would require additional review. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

OTHER

USFWS Long Island Field Office

If a federal agency is involved in the project, or if federal funding is used, there are additional considerations for federally listed species. Section 7(a)(1) of the Endangered Species Act requires federal agencies to use their authorities to conserve listed species. Section 7(a)(2) requires federal agencies to consult on any action that may affect a listed species.

Other permits from this Department or other agencies may be required for projects conducted on this property now or in the future. Also, regulations applicable to the location subject to this determination occasionally are revised and you should, therefore, verify the need for permits if your project is delayed or postponed. This determination regarding the need for permits will remain effective for a maximum of one year unless you are otherwise notified. Applications may be downloaded from our website at www.dec.ny.gov under “Programs” then “Division of Environmental Permits.”

Please contact this office if you have questions regarding the above information. Thank you.

Sincerely,

Amanda Bailey

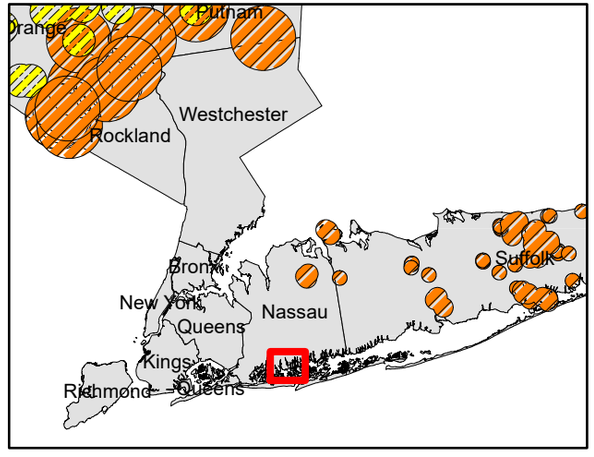
Amanda Bailey
Division of Fish and Wildlife
Amanda.bailey@dec.ny.gov
518-402-8859

Cc: May O’Malley, NYSDEC Division of Environmental Permits

NYS Resources Map

Baldwin Park Shoreline Stabilization Project Hempstead, Nassau County

Prepared by AMB on 9/11/2018



Project area

Indiana Bat

Northern Long-eared Bat

Disclaimer: this map was prepared by the NYSDEC using the most current data available. It is deemed accurate but is not guaranteed. NYSDEC is not responsible for any inaccuracies in the data and does not necessarily endorse any interpretations or products derived from the data. This map may contain information that is considered sensitive and therefore the distribution of this map is strictly prohibited.

NEW YORK STATE OF OPPORTUNITY

Department of Environmental Conservation

0 0.03 0.06 0.12 0.18 0.24 Miles

1 inch = 500 feet

Governor's Office of Storm Recovery

ANDREW M. CUOMO
Governor

MEMORANDUM

DATE: April 11, 2019

TO: File

FROM: Alicia Shultz, Senior Environmental Scientist – Governor's Office of Storm Recovery

SUBJECT: **No Effect Determination – NOAA NMFS Section 7 Project Review**

Baldwin Park Water Shoreline Stabilization - Town of Hempstead
Baldwin Park, Town of Hempstead, Nassau County, New York

The Governor's Office of Storm Recovery (GOSR), acting under the auspices of New York State Homes and Community Renewal's (HCR) Housing Trust Fund Corporation (HTFC), on behalf of the Department of Housing & Urban Development (HUD), is preparing an environmental review in accordance with the National Environmental Policy Act (NEPA) process for the Baldwin Park Water Shoreline Stabilization Project. GOSR proposes to use HUD Community Development Block Grant Disaster Recovery (CDBG-DR) program funding to complete this project. GOSR have made the determination that the proposed activity will have no effect on any species listed as threatened or endangered by National Marine Fisheries Service (NMFS) under the Endangered Species Act (ESA) of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.). This determination was made in accordance with the NMFS Greater Atlantic Region Section 7 Program Guidance and pursuant to Section 7 of ESA and the Marine Mammal Protection Act (MMPA). Our supporting analysis is provided below.

Project Description

The Town of Hempstead is requesting CDBG-DR funding to implementation of shoreline improvements within the Town of Hempstead's Baldwin Park located at 3232 Grand Avenue, Baldwin, New York (Attachment 1). The Proposed Project was developed to stabilize the property, provide storm surge protection and to improve and expand recreational use by the public.

The Proposed Project would include:

- Installation of sediment control/surface water protection devices followed by installation of a temporary cofferdam.
- Removal of 1,600 linear feet of existing and compromised timber bulkhead along Oakwood Canal.
- Rough grading to provide for 1,600 feet of living shoreline along Oakwood Canal. The living shoreline would consist of an armored toe stabilization set at the mean highwater line designed with large revetment stones protecting a stone core.

- In-place and in-kind replacement of approximately 800 linear feet of existing timber bulkhead with approximately 138 new 12-inch diameter timber piles to be installed using an impact hammer along the replacement bulkhead; a vibratory hammer will be utilized to facilitate the installation of new vinyl sheeting. The new bulkhead would be set with a top elevation of 5.25 or 6.25, consistent with the existing timber bulkhead elevation.
- Removal of five existing outfalls and associated catch basins.
- Removal of 36 trees in poor condition to be replaced with 63 trees along the shoreline.
- Construction of an approximately 0.3-acre gravel parking lot near the northern section of the site.
- Construction of an eight-foot wide gravel pedestrian path.
- Construction of a permanent waterfront landing for non-motorized equipment (canoes and kayaks) for use by the public (Attachment 2, Design Plans).

Submerged aquatic vegetation (SAV) is located in the are the in-king bulkhead replacement (Attachment 3).

Purpose

The purpose of the Proposed Project is to implement storm protection measures along the shoreline of Baldwin Park to minimize further erosion and damage that resulted from Superstorm Sandy and other recent storms. The Proposed Project would also provide public waterfront access at Baldwin Park, as well as access to the Blueway Trail, enabling residents to enjoy open space and recreational activities.

Baldwin Park is in need of rehabilitation and protection from storm surges and tidal wave activity. The existing timber bulkhead that surrounds the project area exhibits signs of deterioration to the point where the areas upslope of the bulkhead is being eroded in multiple locations due to bulkhead breaches. During times of heavy precipitation, soil erosion into the surrounding waterbodies continues to this day, adversely affecting water quality. The Proposed Project would help protect both water quality and a key community natural and cultural asset from future flood risk and erosion and reduce the need for recovery resources following a major storm event. Further, stabilization of this shoreline and the re-establishment of marsh vegetation is expected to attenuate wave energy and reduce the risk of flood damage to the surrounding neighborhoods.

Duration of the Project

The proposed project is estimated to be completed in a 3-4 month period after ACOE approval, bid/contractor selection and equipment mobilization. The equipment utilized will be determined by the selected contractor, but in general terms will include a combination of landward and seaward equipment (barge and/or excavators).

Permitting

The following New York State Department of Environmental Conservation (NYSDEC) permit authorizations will be required before commencing construction activities:

- NYSDEC Tidal Wetlands –ECL Article 25
- NYSDEC Protection of Waters – ECL Article 15, Excavation and Fill in Navigable Waters
- NYSDEC Water Quality Certification – Clean Water Act Section 401

Additionally, project activities fall under United States Army Corps of Engineers (USACE) Nationwide Permit (NWP) 13 – BANK STABILIZATION – "[b]ank stabilization activities necessary for erosion

prevention…," and NWP 3 – MAINTENANCE – "..replacement of any previously authorized, currently serviceable structure or fill …," and a Pre-Construction Notification (PCN) must be submitted to the USACE and a NWP verification letter from the USACE should be received prior to the start of construction activities. The project will be constructed in accordance with all federal, state and local permit conditions which are protective of Federally-listed threatened and endangered species and the environment.

NMFS Listed Species in the Action Area

There are four species of sea turtles and one species of fish under the jurisdiction of NMFS that have the potential to occur in the action area. These species include:

Sea Turtles

Loggerhead Turtle (*Caretta caretta*) (76 FR 58868; Recovery plan: NMFS & USFWS 2008)
Kemp's Ridley Turtle (*Lepidochelys kempii*) (35 FR 18319; Recovery plan: NMFS *et al*. 2011)
Green Turtle (*Chelonia mydas*) (81 FR 20057; Recovery plan: NMFS & USFWS 1991)
Leatherback Turtle (*Dermochelys coriacea*) (35 FR 8491; Recovery plan: NMFS & USFWS 1992)

Fish

Atlantic Sturgeon (*Acipenser oxyrinchus oxyrinchus*) (77 FR 5880 and 77 FR 5914)

Sea Turtles

Four species of federally listed threatened or endangered sea turtles are found seasonally in the coastal waters of Jones Beach Island (see Estimated Range of Sea Turtles in **Attachment 4**). These species include the threatened Northwest Atlantic Ocean distinct population segment (DPS) of loggerhead and North Atlantic DPS of green, and the endangered Kemp's ridley and leatherback sea turtles. Sea turtles are generally distributed in coastal Atlantic waters from Florida to New England. As water temperatures of coastal waters rise in the spring, turtles begin to migrate north from their overwintering waters in the south. Sea turtles are expected to be found in the northeast during the summer and fall months (May-November) when the water temperatures are at least 59° F (Shoop and Kenney, 1992) with the highest concentrations of turtles occurring from June through October (Morreale et al., 2005).

Satellite tracking studies of sea turtles have found that foraging turtles mainly occurred in areas where the water depth was between approximately 16 and 49 feet (Ruben and Morreale 1999). This depth was interpreted not to be an upper physiological depth limit for turtles, but rather a natural limiting depth where light and food are most suitable for foraging turtles (Morreale and Standora 1998). Leatherback sea turtles feed almost exclusively on jellyfish in offshore marine environments, whereas green sea turtles tend to frequent seagrass beds. Loggerhead and Kemp's ridley sea turtles feed on mollusks and crustaceans in a variety of habitats. The area where the revetment will be constructed is between Mean Low Water Level and Mean High Water Level, shallow water depth, which is shallower than areas where the sea turtles would occur. Based on this information, sea turtles are not expected to occur in area where construction will be completed. However, foraging may occur area in the action area immediately adjacent to the construction area. Sea turtles could also pass through the action area in search of areas that support foraging, and may seasonally be present in the vicinity of the project from May to November.

The presence of Loggerhead, Green and Kemp's sea turtles in the project area is unlikely. As indicated by NMFS, this species may occur in the coastal waters of Parsunage Cove; however, their presence in shallow waters adjacent to the shoreline where bulkheads and docks are typically installed would be rare due to lack

of preferred habitat. If such a species was present, it would be a transient presence with a limited temporal duration. Hawksbill sea turtles rarely occur in New York. Preferred habitat consists of warm, coastal shoal water less than 50 feet deep with abundant submerged vegetation. Coral reefs, lagoons, inlets and bays are ideal habitats. Hawksbill sea turtles are not expected to occur within the project area.

Because the action area does not provide preferred habitat for the turtle species, GOSR has made a no effect determination for the turtle species.

Fish

Atlantic Sturgeon

Atlantic sturgeon originating from the New York Bight, Cheseapeake Bay, South Atlantic, and Carolina DPSs are listed as endangered, while the Gulf of Maine DPS is listed as threatened. The marine range of all five DPSs extends along the Atlantic coast from Canada to Cape Canaveral, Florida and includes the action area. As such, Atlantic sturgeon from any of the five DPSs may occur in the action area, which is located in the coastal waters south of Long Island (see Estimated Range of Atlantic Sturgeon Distinct Population Segments [DPS] Map in **Attachment 4**).

Atlantic sturgeon spawning and early life stages occur in major tidally influenced freshwater rivers. Early life stages and young of the year have limited tolerance to salinity and remain in freshwater reaches of their natal river until reaching the sub-adult stage when individuals have a higher tolerance for saline conditions. No spawning or early life stages of Atlantic sturgeon occur in the action area, as the environment is saline and there is no direct connectivity to a large river that would support spawning or early life stages of Atlantic sturgeon.

At around three years of age, sub-adults exceeding 70 centimeters in total length begin to migrate to marine waters (Bain et al. 2000). Research has shown that adult and sub-adult Atlantic sturgeon inhabiting marine waters generally prefer nearshore areas dominated by sand and gravel substrates with depths ranging from 10 to 50m (Stein et al., 2004). In the coastal waters of New York, Atlantic sturgeon have been found to predominantly occupy water that is less than 20m deep (Dunton et al., 2015). The area to be dredged is approximately 5 feet deep according to NOAA Nautical Charts, which is shallower than areas where we would expect sturgeon to occur. There are documented SAV beds located immediately adjacent to the proposed project area, within the action area (see SAV map in **Attachment 2**).

Given the shallow depths in the construction area, Atlantic sturgeon are not expected to be within the area. However, foraging may occur in the action area immediately adjacent to the construction area. Additionally, because the action area is located in saline, tidally influenced waters, no eggs, larvae or juvenile Atlantic sturgeon will be present. Lastly, the action area does not contain any known overwintering areas; thus, sub-adult and adult Atlantic sturgeon are most likely to be present in the action area from April through November.

Effects of the Action

Sea turtles are not likely to occur in the project area except possibly as occasional seasonal transient individuals, and their presence in shallow waters adjacent to the shoreline such as the project area is unlikely. There is no nesting activity in the region, and the turtles are not year-round residents. Adverse impacts to sea turtles are not anticipated as a result of the project.

Sturgeon are not likely to be present in the intertidal and shallow water depths within the project area. Seasonal transient sub-adults and adults are highly mobile and could easily avoid the project area during construction. Adverse impacts to sturgeon are not anticipated as a result of project activities.

Conclusions

Based on the analysis that all effects of the proposed action will be insignificant and/or discountable, GOSR has determined that the proposed project will have no effect on any listed species or critical habitat under NMFS jurisdiction. The presence of these species in shallow waters adjacent to the shoreline in highly developed channelized areas such as the project area is unlikely. If such a species was present, it would be a transient presence with a limited temporal duration. Impacts to these species are more likely from farfield effects such as increased turbidity (due to sediment disturbance) and noise resulting from the installation of piles. Measures will be implemented to minimize the potential exposure of these species to these stressors including silt curtains, construction at low tide when water is absent from the area, use of wood or vinyl piles (as opposed to steel), use of the smallest diameter piles practicable, and use of vibratory pile drivers. GOSR used the best scientific and commercial data available to complete this analysis. The geographic and temporal scope of the project is minimal, and the immediate vicinity is heavily trafficked. Furthermore, best management practices and restrictions on sedimentation or other water quality impacts are imposed by NYSDEC and USACE permit requirements and considtions.

Additionally, the bulkhead in the area of submerged aquatic vegetation (SAV) will be replaced in kind and will therefore, have no impacts to the existing SAV.

Attachments:
Attachment 1 – Project Location Maps
Attachment 2 – Design Plans
Attachment 3 – Submerged Aquatic Vegetation Map
Attachment 4 – Map of Estimated Range of Sea Turtles
Attachment 5 – Map of Estimated Range of Atlantic Sturgeon Distinct Population Segments

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Attachment 1 – Project Location Maps

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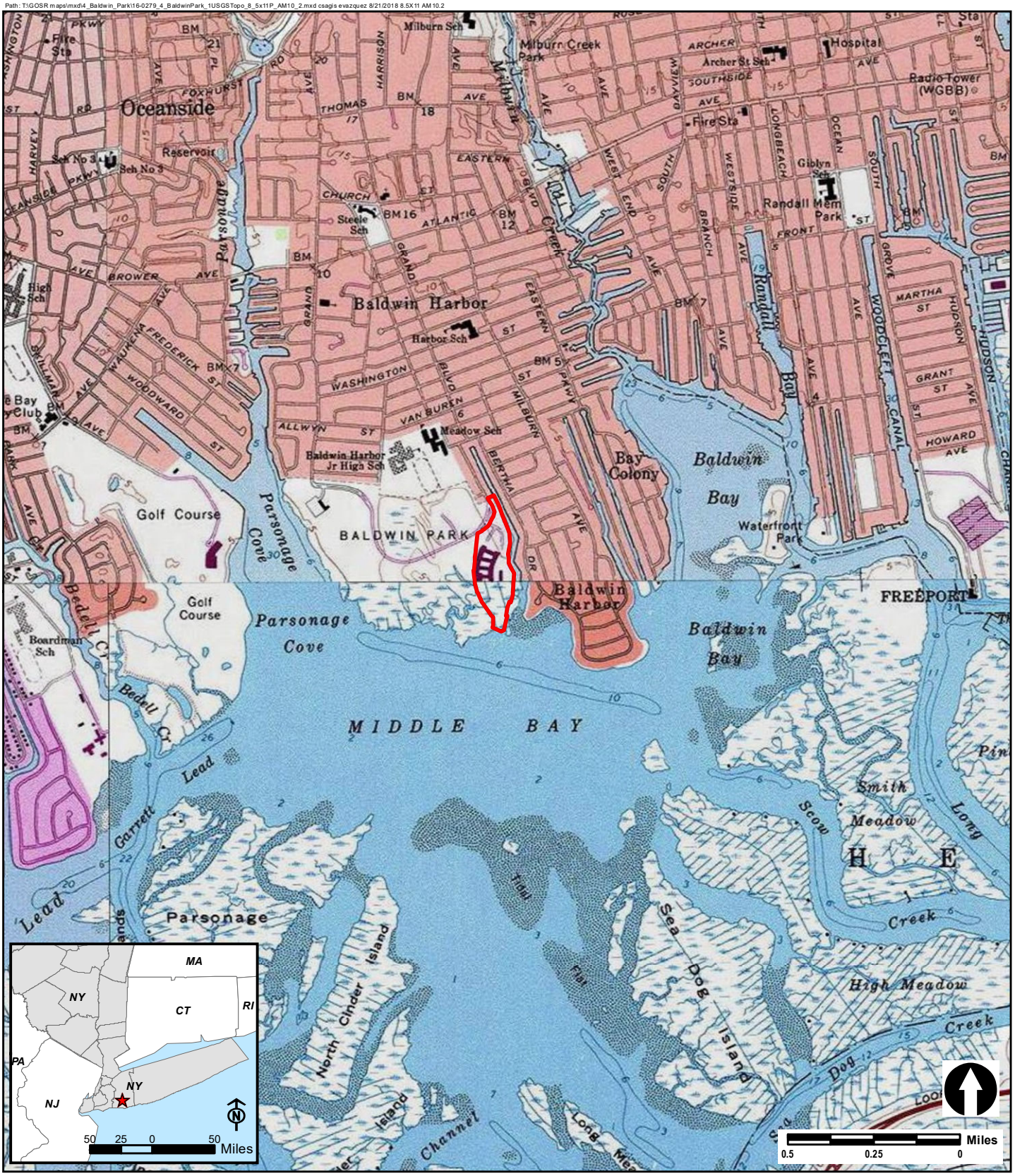

Project Site

Figure 1

USGS Regional Location

Baldwin Park Shoreline Stabilization Project

Hempstead, Nassau County, NY

Source: USGS Topgraphic Map, Far Rockaway Quadrangle
Copyright:© 2013 National Geographic Society, i-cubed
(http://server.arcgisonline.com/ArcGIS/rest/services/
USA_Topo_Maps/MapServer)

CSAGROUP EST • 1956

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Project Site
Living Shoreline
Bulkhead

Figure 2

Project Area

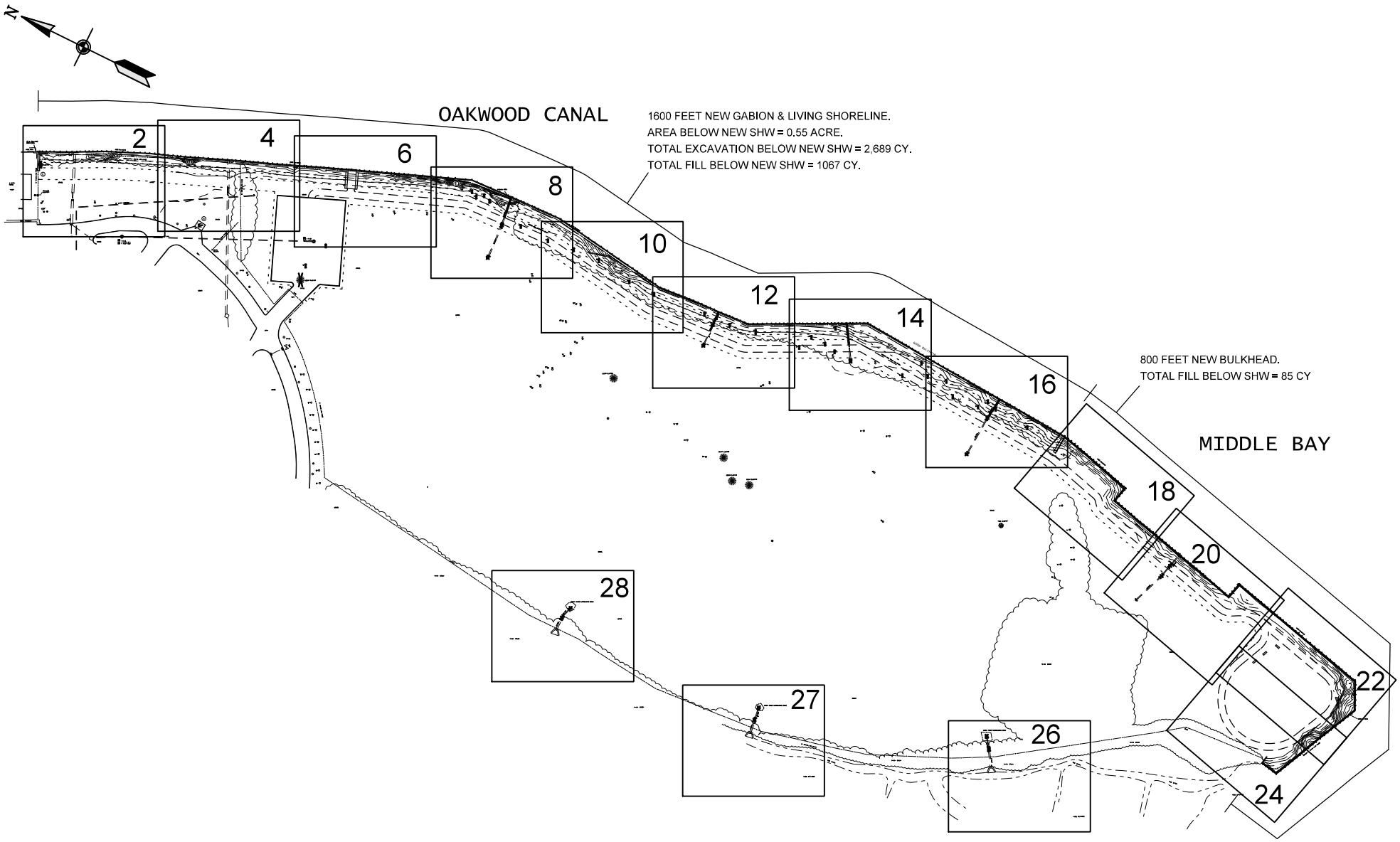
Baldwin Park Shoreline Stabilization Project

Hempstead, Nassau County, NY

Source: New York State Department of Transportation, 2013;
ESRI World Imagery

CSAGROUP EST • 1956

Attachment 2 – Design Plans



NO.	DATE	REVISIONS

In Charge:	D.L.T.
Compilation:	J.M.T.
Design:	J.M.T.
Drawn:	J.M.T.
Checked:	J.M.T.
Reviewed:	D.L.T.

PLAN NOTES:

1. EXISTING CONDITIONS SHOWN AS OF FEBRUARY 2018.
2. UNDERGROUND UTILITIES SHOWN ARE BASED UPON LIMITED SCHEMATIC INFORMATION PROVIDED BY OTHERS. NOT ALL EXISTING UNDERGROUND UTILITY MAINS AND SERVICES ARE SHOWN, PRIVATE UTILITIES, IF EXISTING, ARE NOT SHOWN OR INDICATED.
3. HORIZONTAL AND VERTICAL CONTROL INDICATED IS IN NASSAU COUNTY DATUM. HORIZONTAL CONTROL INDICATED IS NAD83 (1996).US SURVEY FEET. VERTICAL CONTROL INDICATED IS NAVD (1988) FEET.

BALDWIN HARBOR PARK KEY MAP

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 200'
Date:	NOV. 2018
File No.:	
Dwg No.:	
Sheet No.:	1 of 30

NOTE: EXISTING SHW, MHW, & MLW ARE SEAWARD OF EXISTING BULKHEAD.
ALL PROPOSED WORK TO BE DONE LANDWARD OF EXISTING BULKHEAD.

OAKWOOD CANAL

SAWCUT EXISTING BULKHEAD SHEETING AND PILING TO ELEVATION 0.0.
REMOVE EXISTING BULKHEAD ANCHORING.

BULKHEAD OUTFALL
INV = -0.34 W/CAGE

PROVIDE NEW GABIONS.
117 CY FILL BELOW NEW SHW.
SEE DETAIL SHEET 29.

PROVIDE COFFERDAM.
ITEM 98X.

MATCHLINE
SEE SHEET 4

METAL BULKHEAD
UNDER DECK
-6.3 *

EXISTING MLW EL = -2.28
EXISTING MHW = 1.95
EXISTING SHW EL = 2.95

WOOD RAMP

WOOD BULKHEAD

TB = 5.3

TB = 5.2

TB = 5.4

GATE

REMOVAL BELOW NEW MHW
11.0' X 176.0' (214 CY)

NEW MHW EL = 1.95

NEW SHW EL = 2.95

REMOVE
EXISTING
TREE.

CLUSTER

IRREGULAR 6' CHAIN LINK FENCE

PROVIDE CLEARING AND GRUBBING.

PROVIDE NEW LIVING SHORELINE.
SEE DETAIL SHEET 29.

REMOVE EXISTING FENCE.

6' CHAIN LINK FENCE

GRASS

GRASS

PROVIDE NEW TREE. (TYP.)

RESTORATION LIMIT LINE.

TYPICAL CROSS SECTION
SEE SHEET 3

DRAINAGE
EASEMENT

10.00'

24"X38" ERCP

8" WATER (APPROX)

SIDEWALK

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TOWN OF HEMPSTEAD, N.Y.
FOUNDED 1644
Department of Engineering

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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	NOV. 2018
File No.:	
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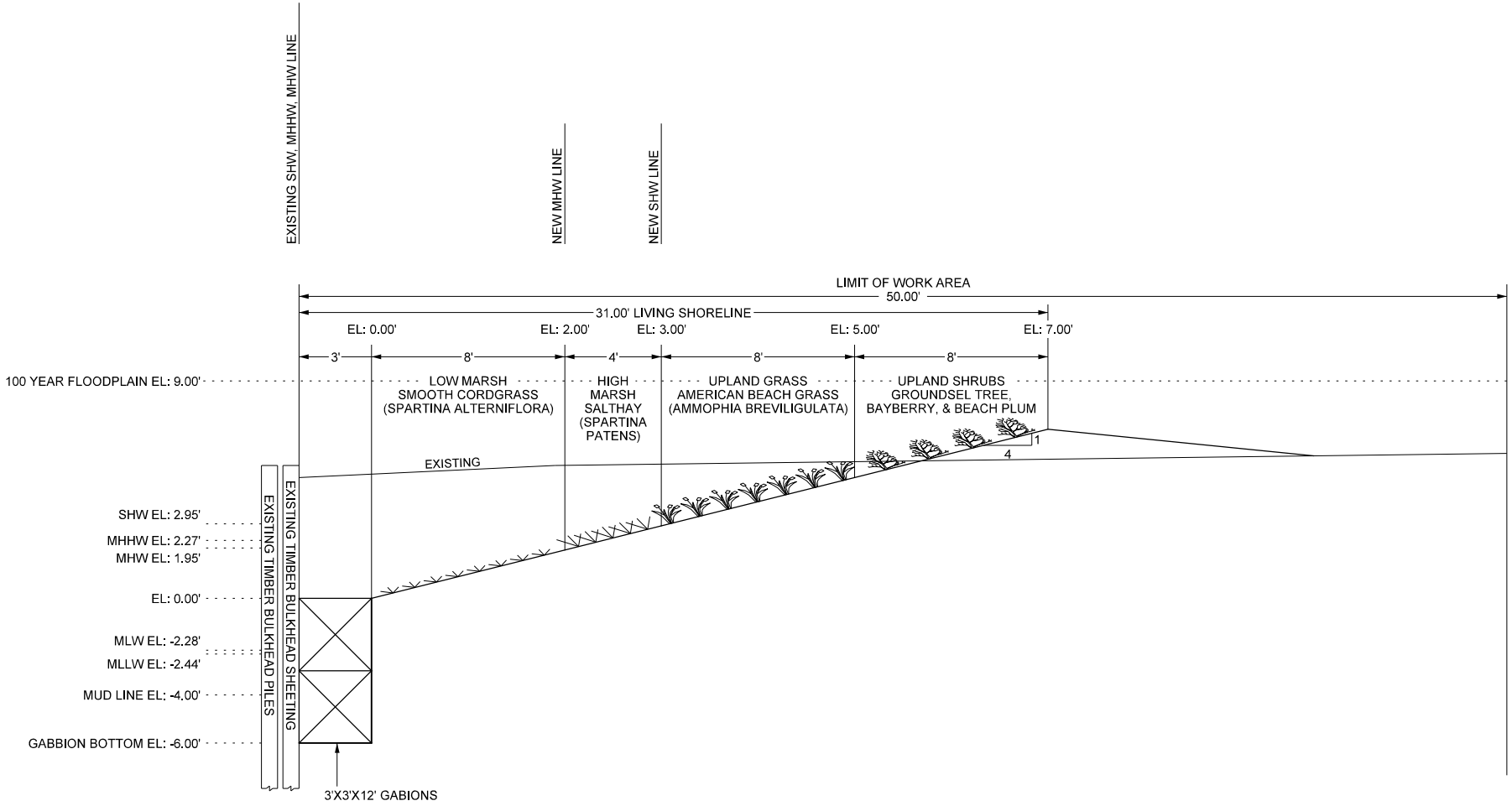
Sheet No.:	2 of 30



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TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
Department of Engineering

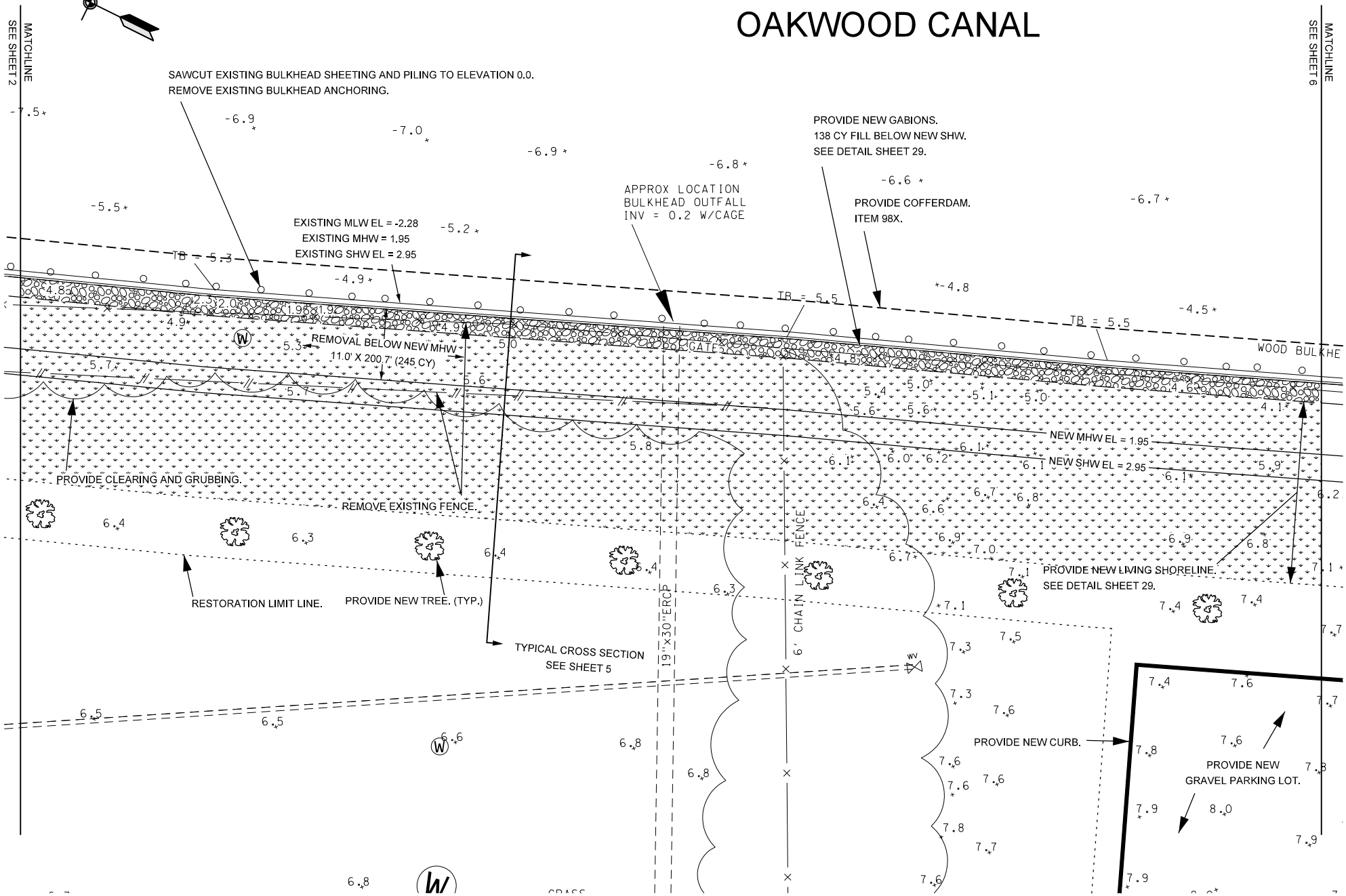
BALDWIN HARBOR PARK CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 3 of 30

NOTE: EXISTING SHW, MHW, & MLW ARE SEAWARD OF EXISTING BULKHEAD.
ALL PROPOSED WORK TO BE DONE LANDWARD OF EXISTING BULKHEAD.

OAKWOOD CANAL



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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	NOV. 2018
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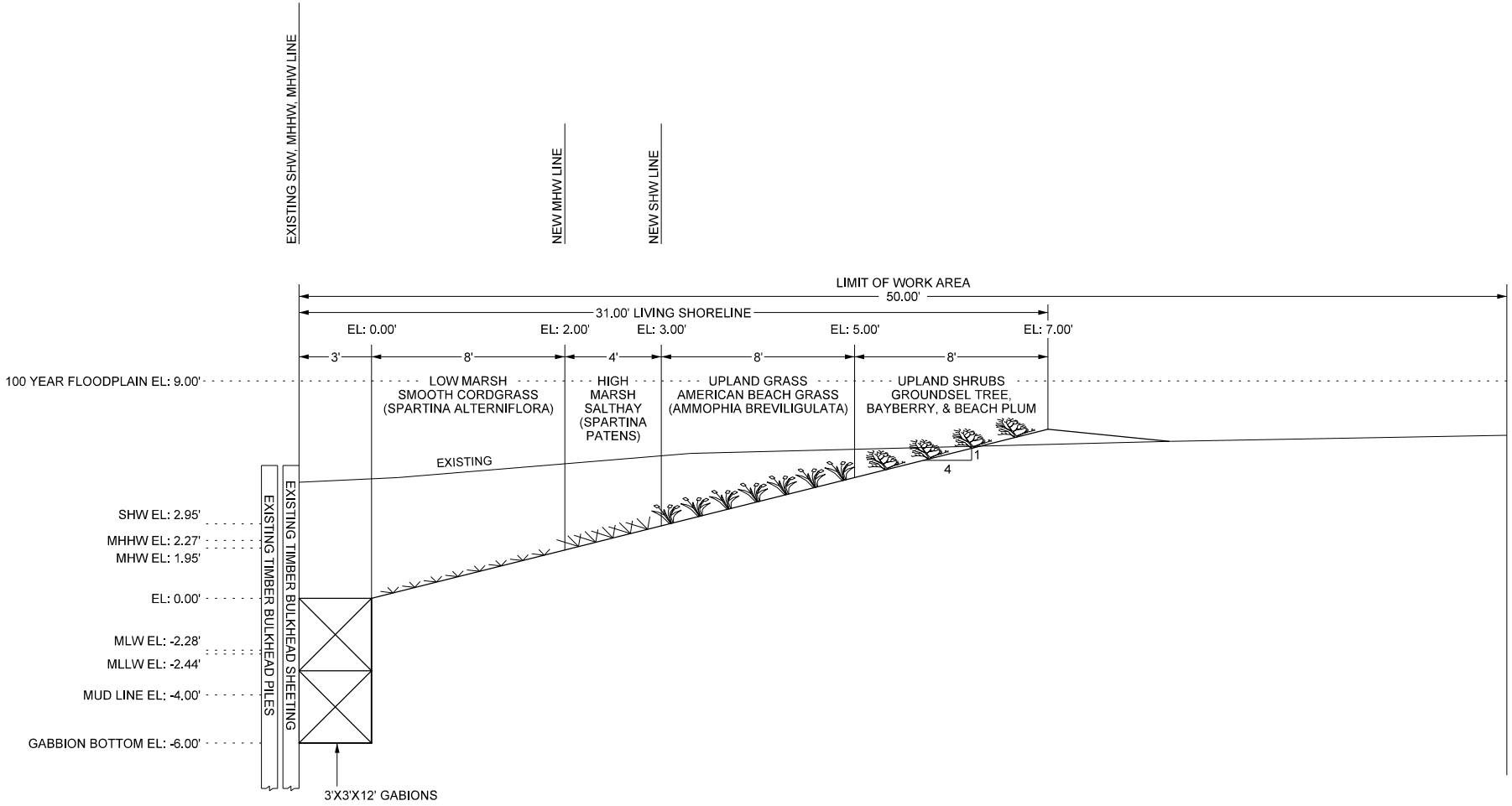
Sheet No.:	4 of 30



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BALDWIN HARBOR PARK CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

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Sheet No.: 5 of 30

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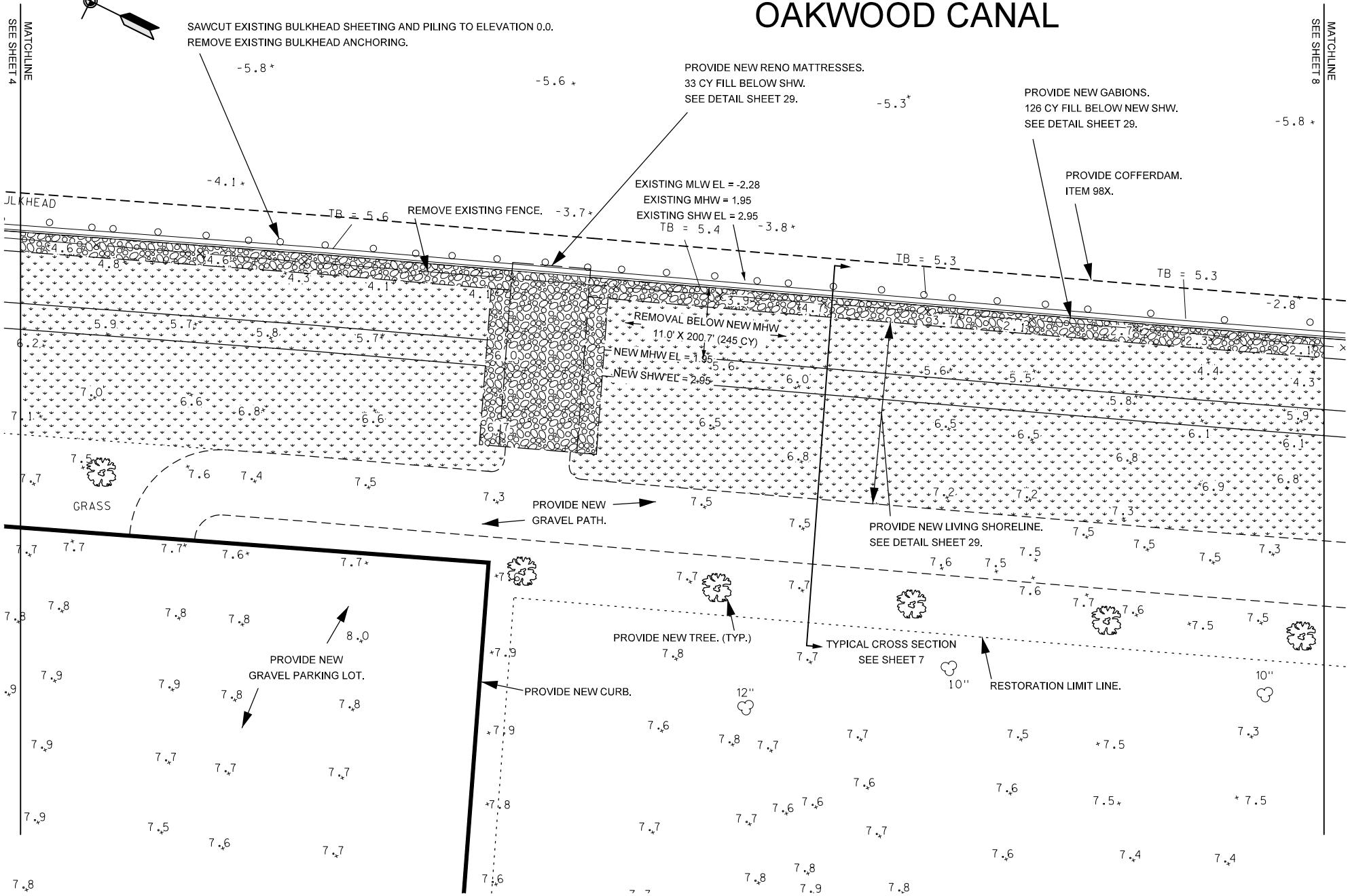
OAKWOOD CANAL



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BALDWIN, N.Y.

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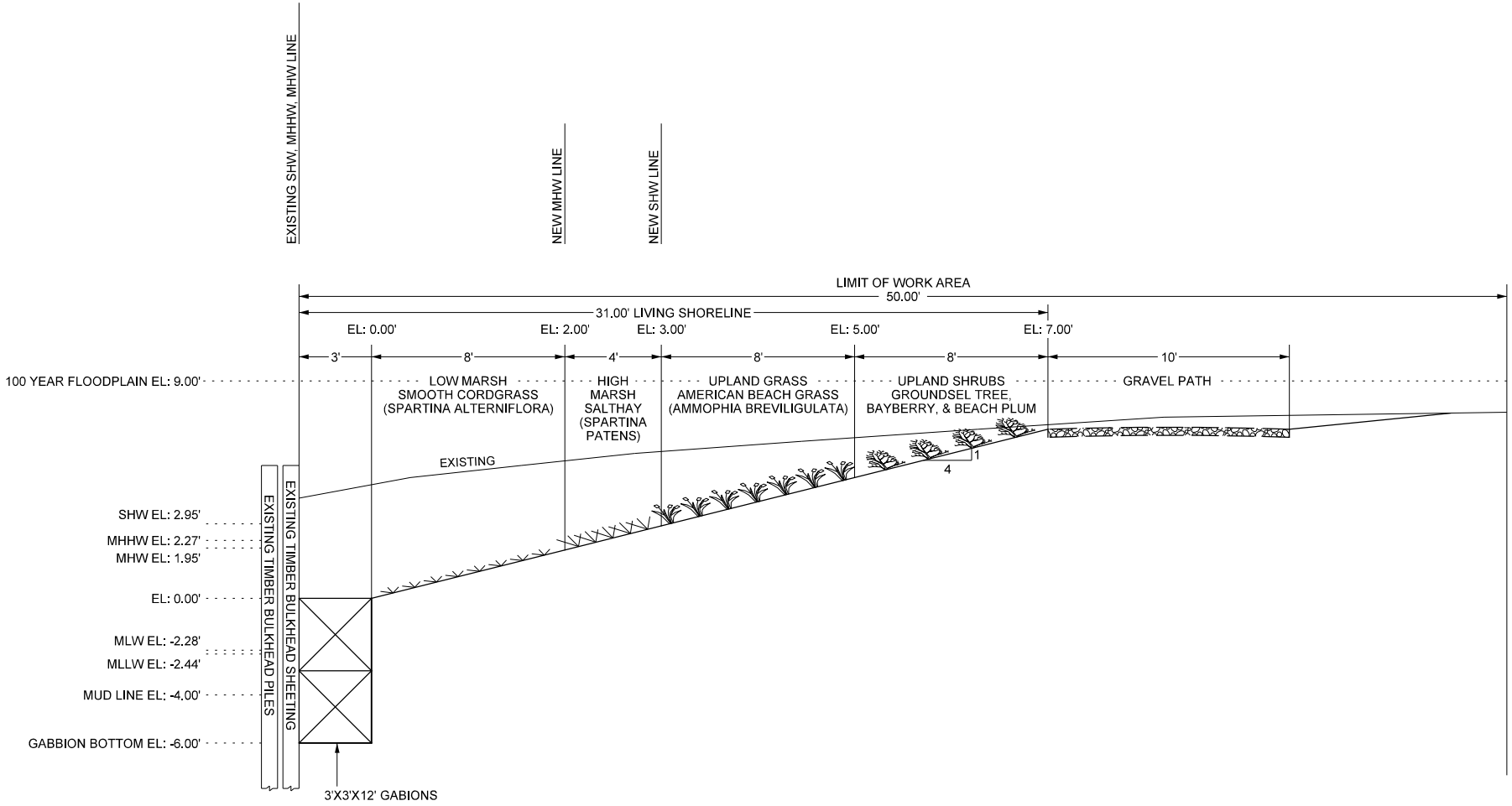
Sheet No.:	6 of 30



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BALDWIN HARBOR PARK CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

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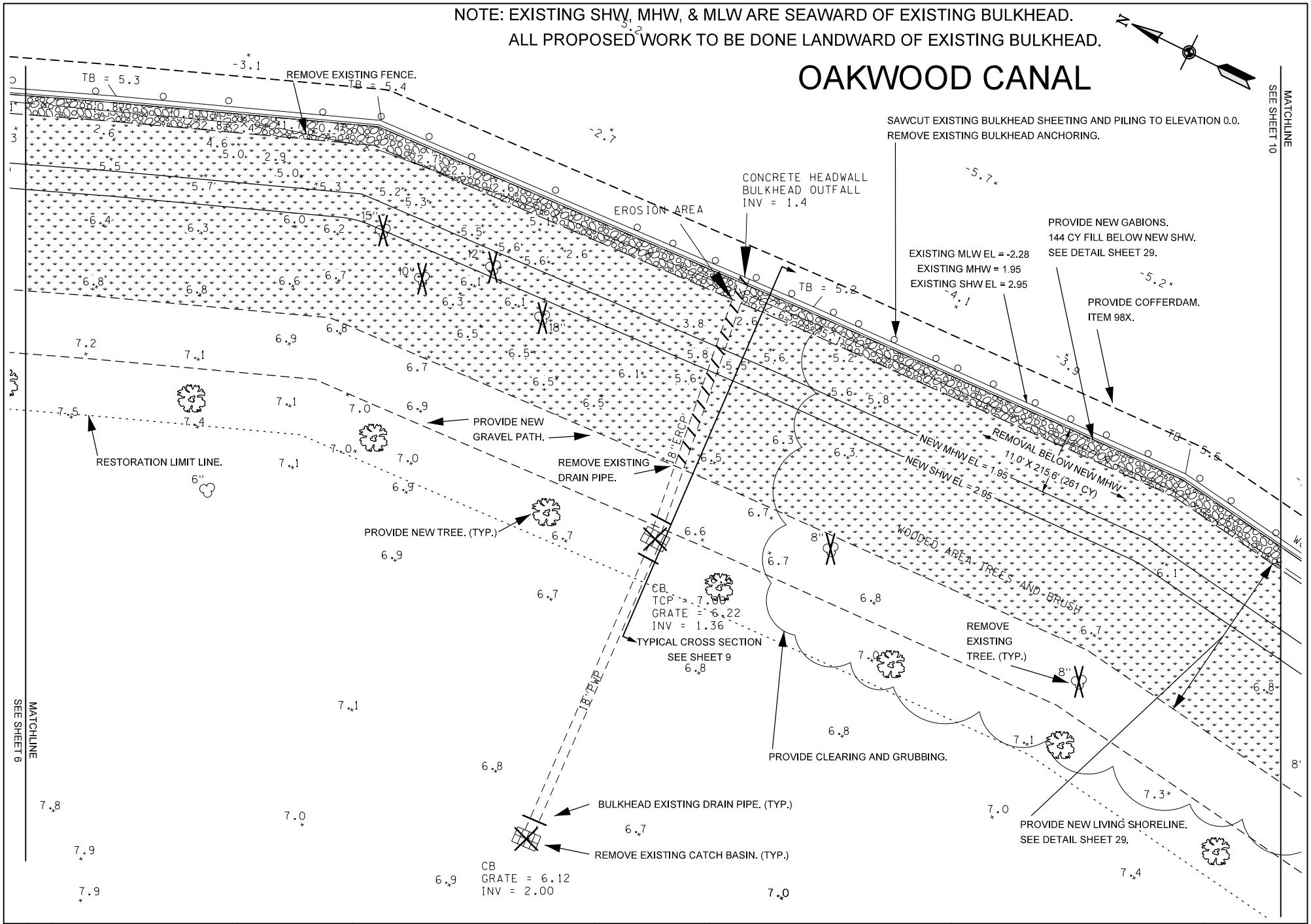
Dwg No.:
Sheet No.: 7 of 30

NOTE: EXISTING SHW, MHW, & MLW ARE SEAWARD OF EXISTING BULKHEAD.
ALL PROPOSED WORK TO BE DONE LANDWARD OF EXISTING BULKHEAD.

OAKWOOD CANAL



NO.	DATE	REVISIONS

In Charge:	D.L.T.
Compilation:	J.M.T.
Design:	J.M.T.
Drawn:	J.M.T.
Checked:	J.M.T.
Reviewed:	D.L.T.

TOWN OF HEMPSTEAD, N.Y. FOUNDED 1644
Department of Engineering

PLAN NOTES:

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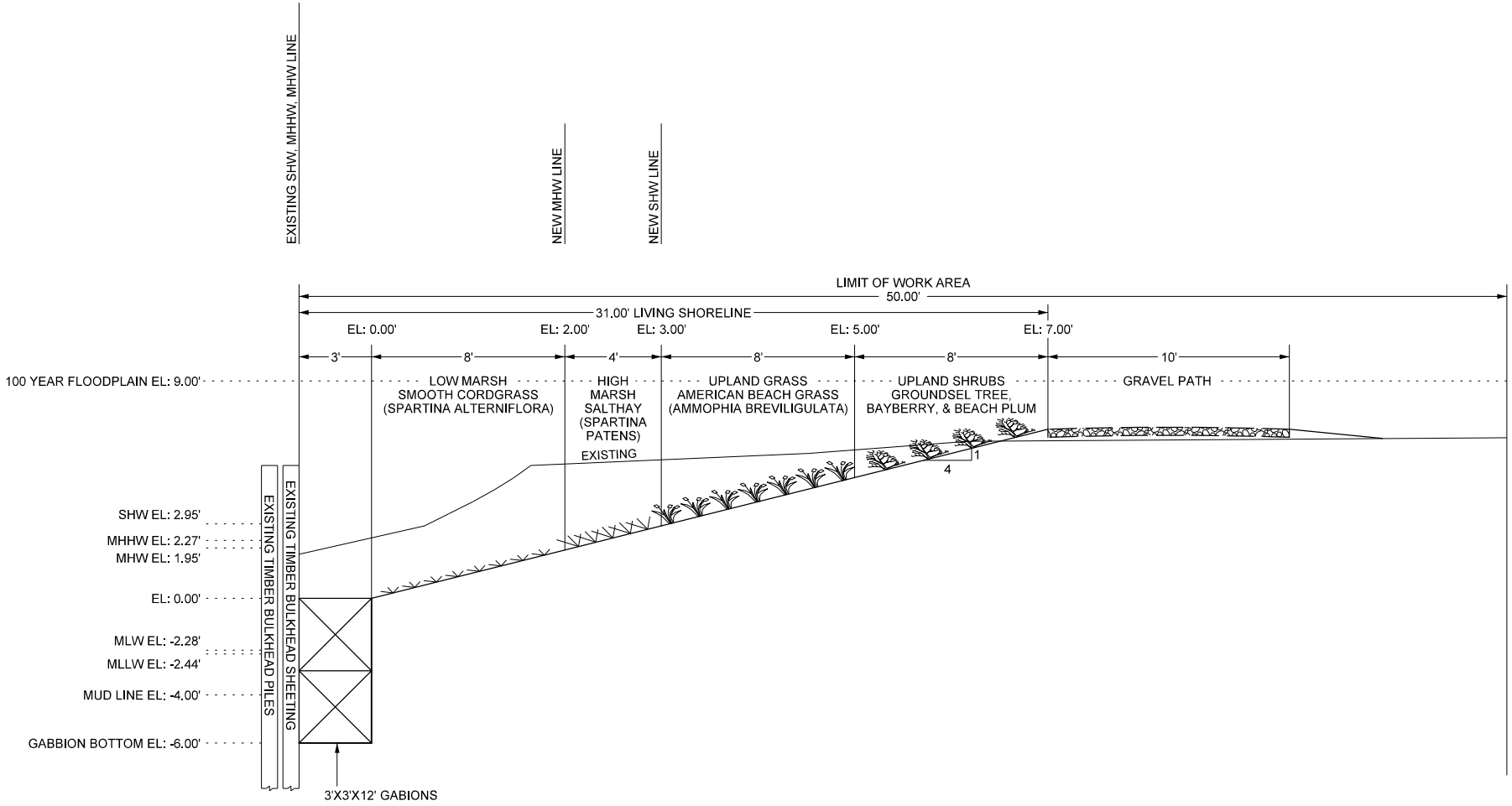
BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	NOV. 2018
File No.:	
Dwg No.:	
Sheet No.:	8 of 30



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Reviewed:	D.L.T.

TOWN OF HEMPSTEAD, N.Y. FOUNDED 1644
Department of Engineering

BALDWIN HARBOR PARK CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 9 of 30

NOTE: EXISTING SHW, MHW, & MLW ARE SEAWARD OF EXISTING BULKHEAD.
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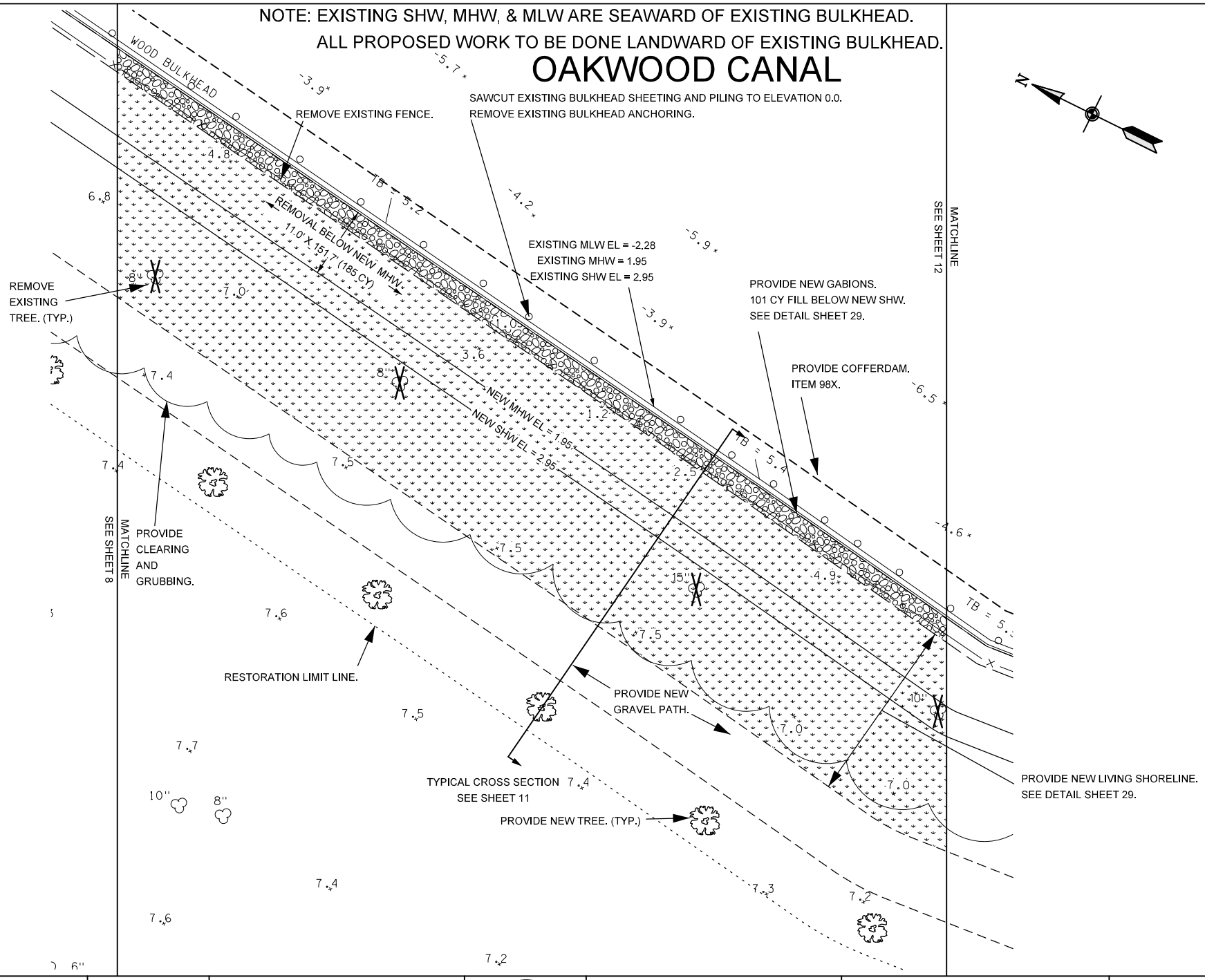
OAKWOOD CANAL



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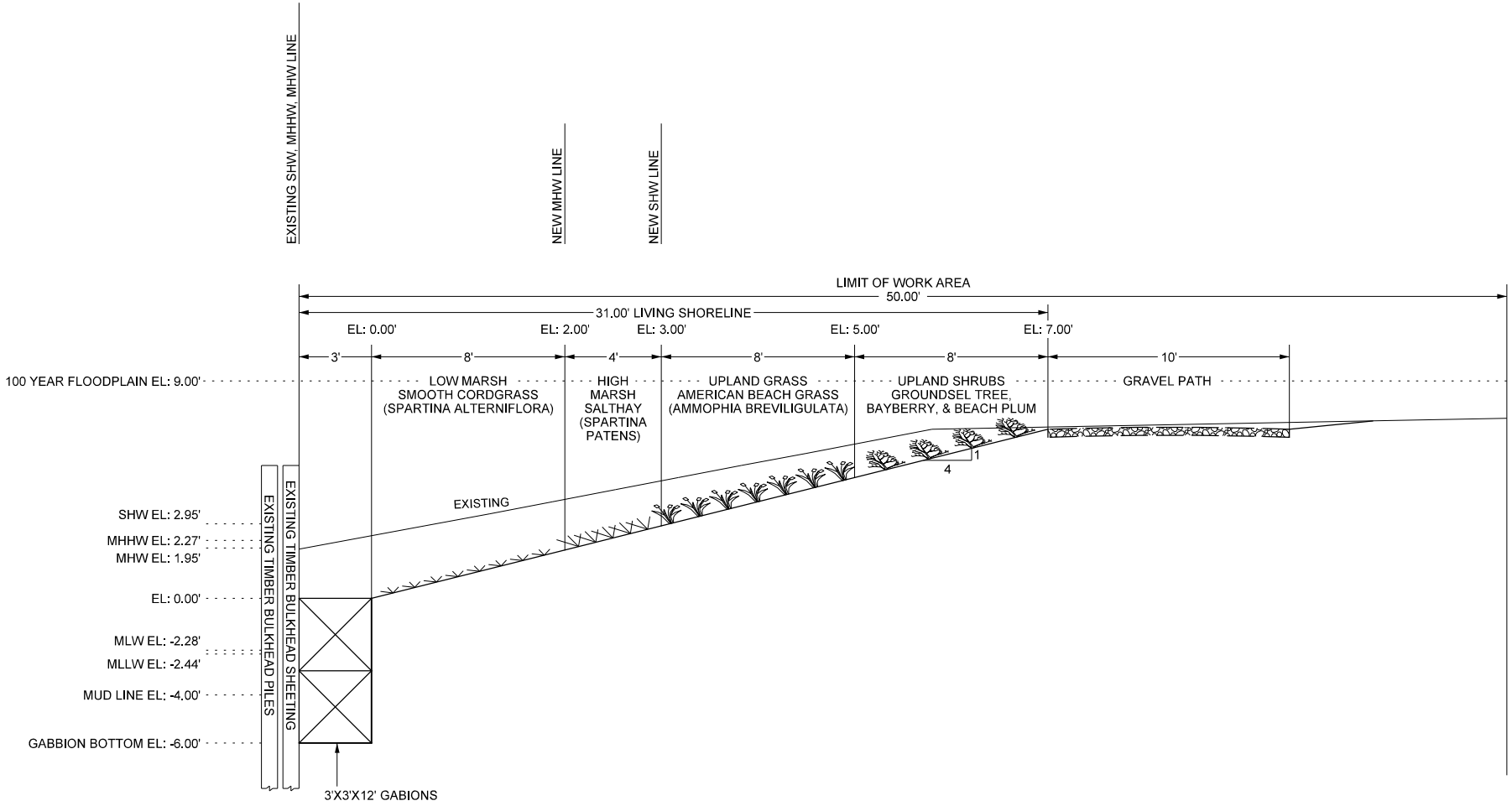
BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	NOV. 2018
File No.:	
Dwg No.:	
Sheet No.:	10 of 30



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TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
Department of Engineering

BALDWIN HARBOR PARK CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 11 of 30

NOTE: EXISTING SHW, MHW, & MLW ARE SEAWARD OF EXISTING BULKHEAD.
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OAKWOOD CANAL

MATCHLINE SEE SHEET 14

MATCHLINE SEE SHEET 10

EXISTING MLW EL = -2.28
EXISTING MHW = 1.95
EXISTING SHW EL = 2.95

SAWCUT EXISTING BULKHEAD SHEETING AND PILING TO ELEVATION 0.0.
REMOVE EXISTING BULKHEAD ANCHORING.

PROVIDE NEW GABIONS.
141 CY FILL BELOW NEW SHW.
SEE DETAIL SHEET 29.

PROVIDE COFFERDAM.
ITEM 98X.

REMOVAL BELOW NEW MHW
110' X 211.7' (258 CY)
NEW MHW EL = 1.95
NEW SHW EL = 2.95

APPROX LOCATION
BULKHEAD OUTFALL
INV = 1.38

PROVIDE CLEARING AND GRUBBING.

REMOVE EXISTING FENCE.

REMOVE EXISTING TREE. (TYP.)

NOT FOUND

BULKHEAD EXISTING DRAIN PIPE. (TYP.)

REMOVE EXISTING DRAIN PIPE.

TYPICAL CROSS SECTION
SEE SHEET 3

CB
TCP = 6.61
GRATE = 5.90
BOTTOM = 1.6
PLUGGED

PROVIDE NEW LIVING SHORELINE.
SEE DETAIL SHEET 29.

PROVIDE NEW GRAVEL PATH.

REMOVE EXISTING CATCH BASIN. (TYP.)

PROVIDE NEW TREE. (TYP.)

RESTORATION LIMIT LINE.

GRASS

NO.	DATE	REVISIONS

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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
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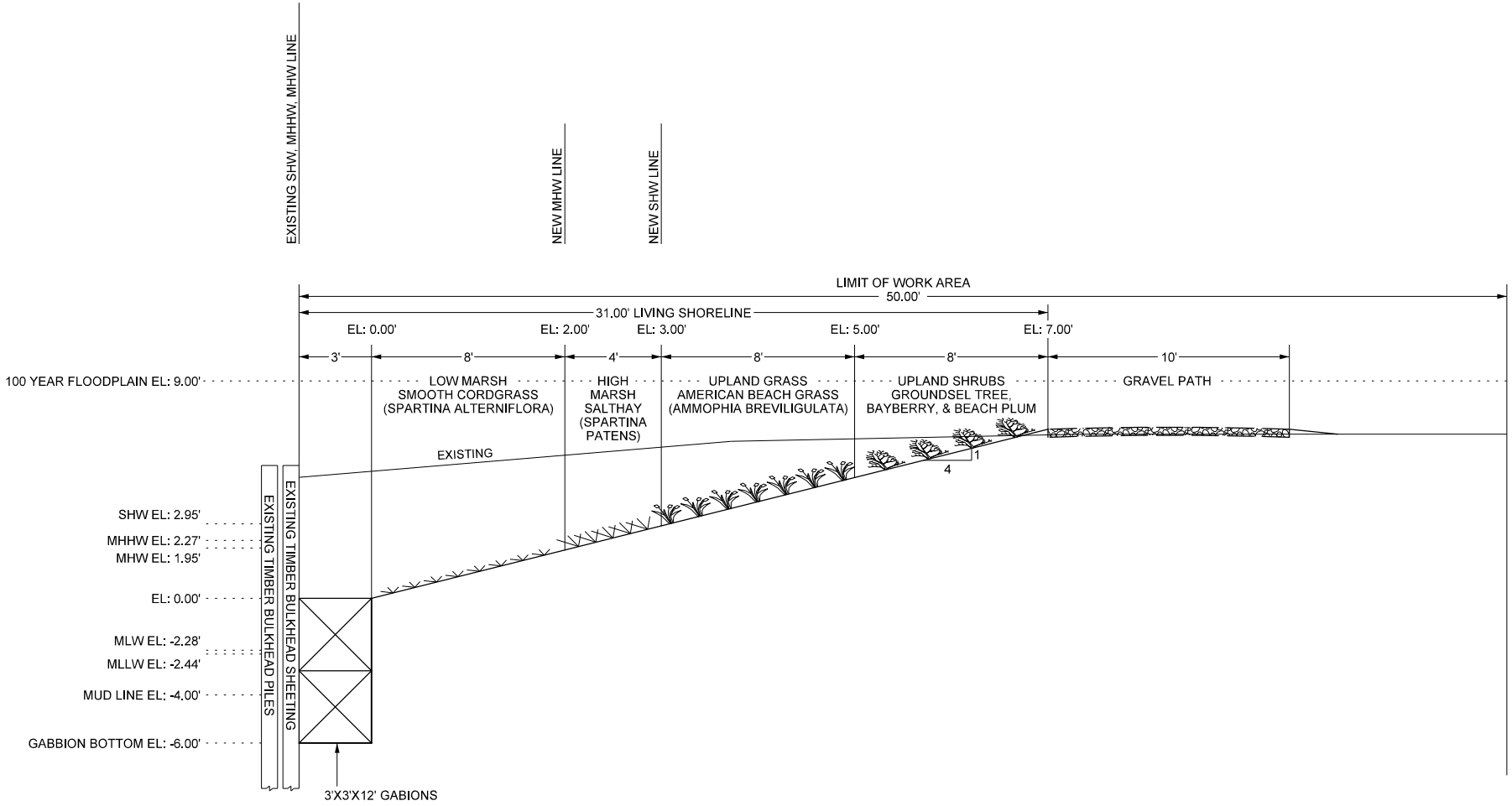
File No.:	
Dwg No.:	
Sheet No.:	12 of 30



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TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
Department of Engineering

BALDWIN HARBOR PARK CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 13 of 30

NOTE: EXISTING SHW, MHW, & MLW ARE SEAWARD OF EXISTING BULKHEAD.
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OAKWOOD CANAL

SAWCUT EXISTING BULKHEAD SHEETING AND PILING TO ELEVATION 0.0.
REMOVE EXISTING BULKHEAD ANCHORING.

EXISTING MLW EL = -2.28
EXISTING MHW = 1.95
EXISTING SHW EL = 2.95

APPROX LOCATION
BULKHEAD OUTFALL
INV = 2.50

REMOVE EXISTING FENCE.

TB = 5.3

REMOVAL BELOW NEW MHW
11.0' X 214.0' (261 CY)

NEW MHW EL = 1.95

NEW SHW EL = 2.95

PROVIDE NEW GABIONS.
143 CY FILL BELOW NEW SHW.
SEE DETAIL SHEET 29.

PROVIDE COFFERDAM.
ITEM 98X.

PROVIDE NEW LIVING SHORELINE.
SEE DETAIL SHEET 29.

MATCHLINE
SEE SHEET 16

WOOD BULKH

WOODED AREA TREES AND BRUSH

REMOVE EXISTING
DRAIN PIPE.

18" RCP

PROVIDE NEW
GRAVEL PATH.

REMOVE
EXISTING
TREE. (TYP.)

BULKHEAD EXISTING
DRAIN PIPE.

CB
GRATE = 5.85

TYPICAL CROSS SECTION
SEE SHEET 15

RESTORATION LIMIT LINE.

PROVIDE
CLEARING
AND
GRUBBING.

REMOVE EXISTING CATCH BASIN.

PROVIDE NEW TREE. (TYP.)

MATCHLINE
SEE SHEET 12

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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
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File No.:	
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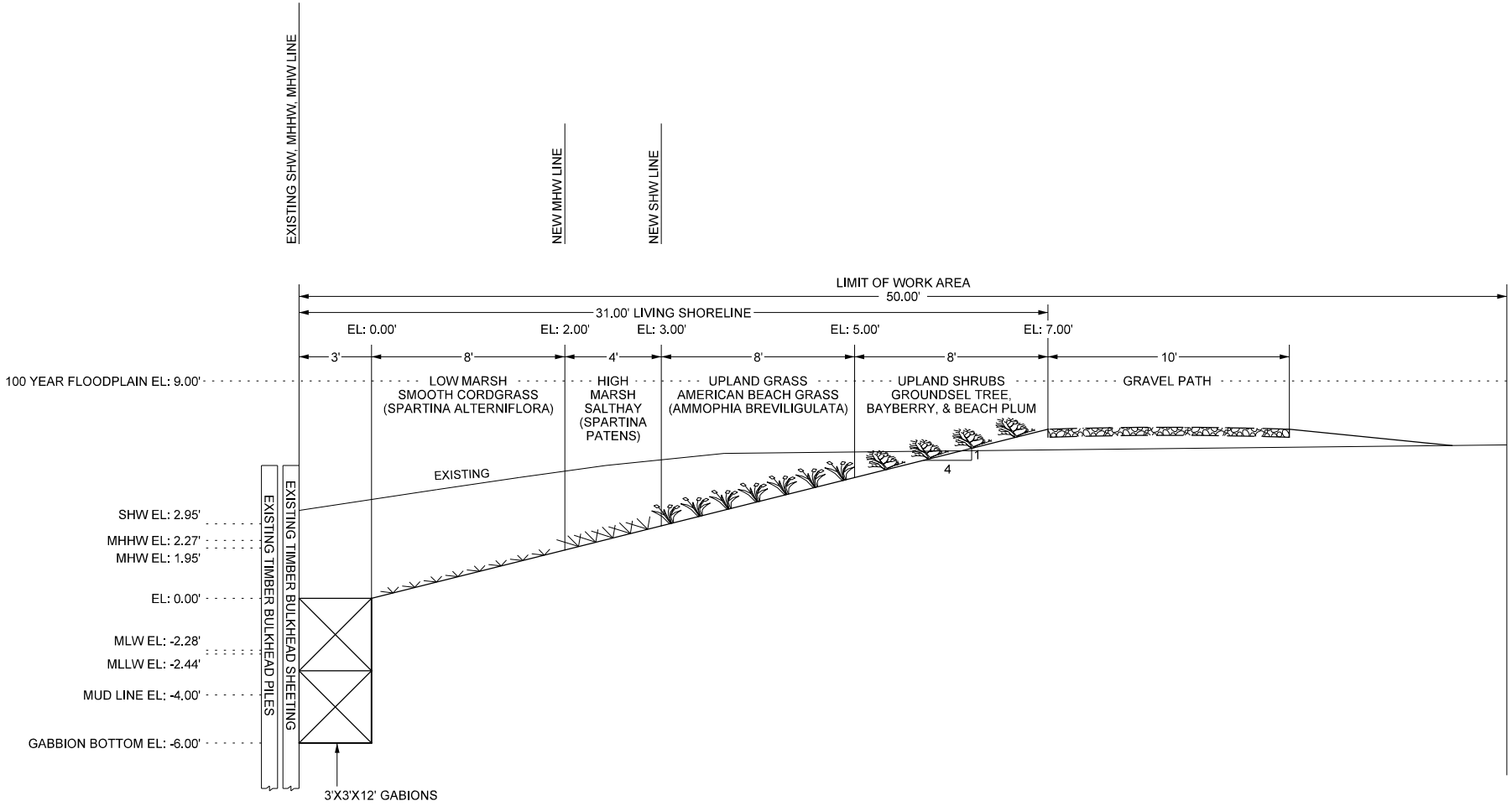
Sheet No.:	14 of 30



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TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
Department of Engineering

BALDWIN HARBOR PARK CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 15 of 30

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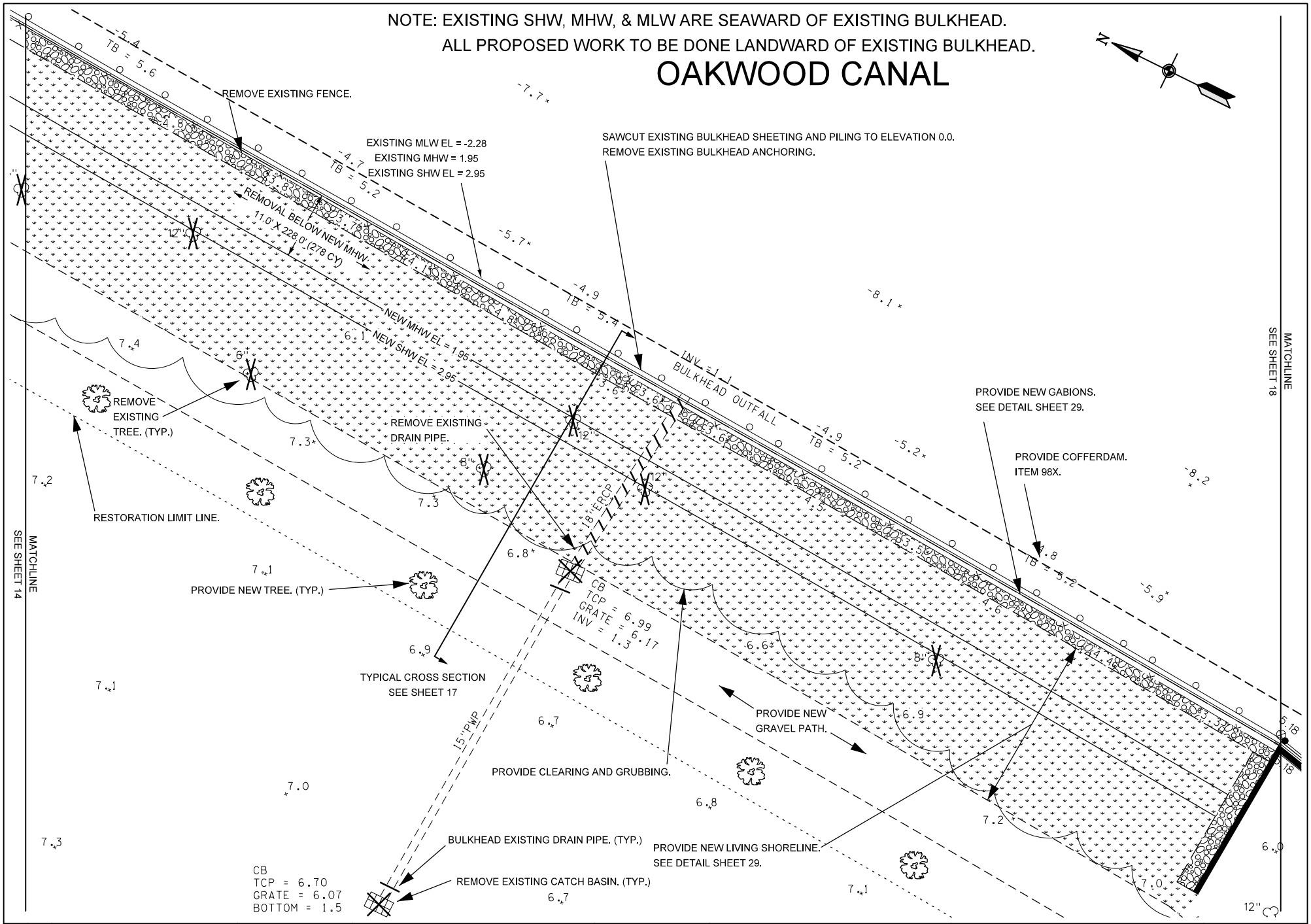
OAKWOOD CANAL



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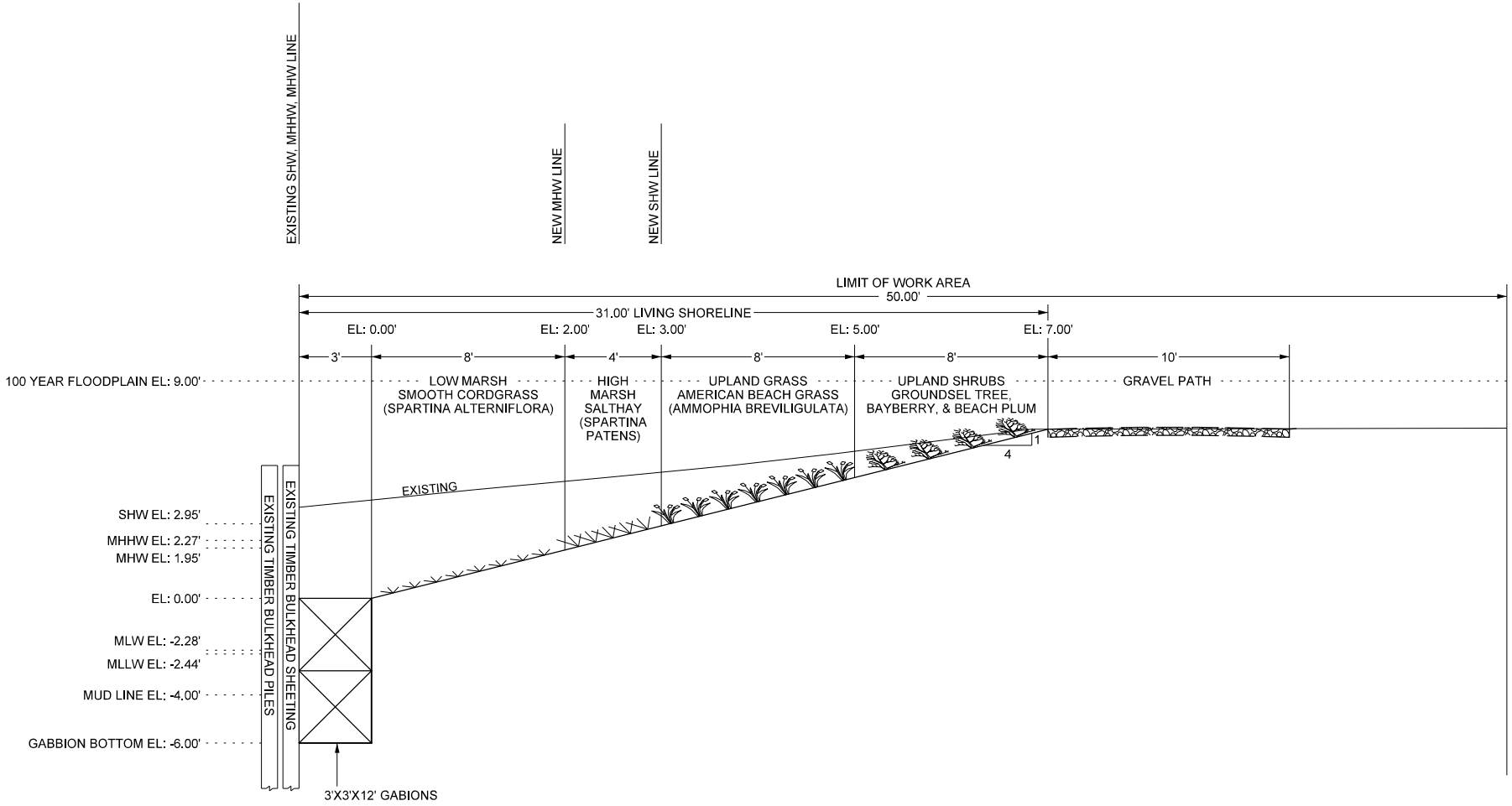
BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	NOV. 2018
File No.:	
Dwg No.:	
Sheet No.:	16 of 30



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TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
Department of Engineering

BALDWIN HARBOR PARK CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
File No.:
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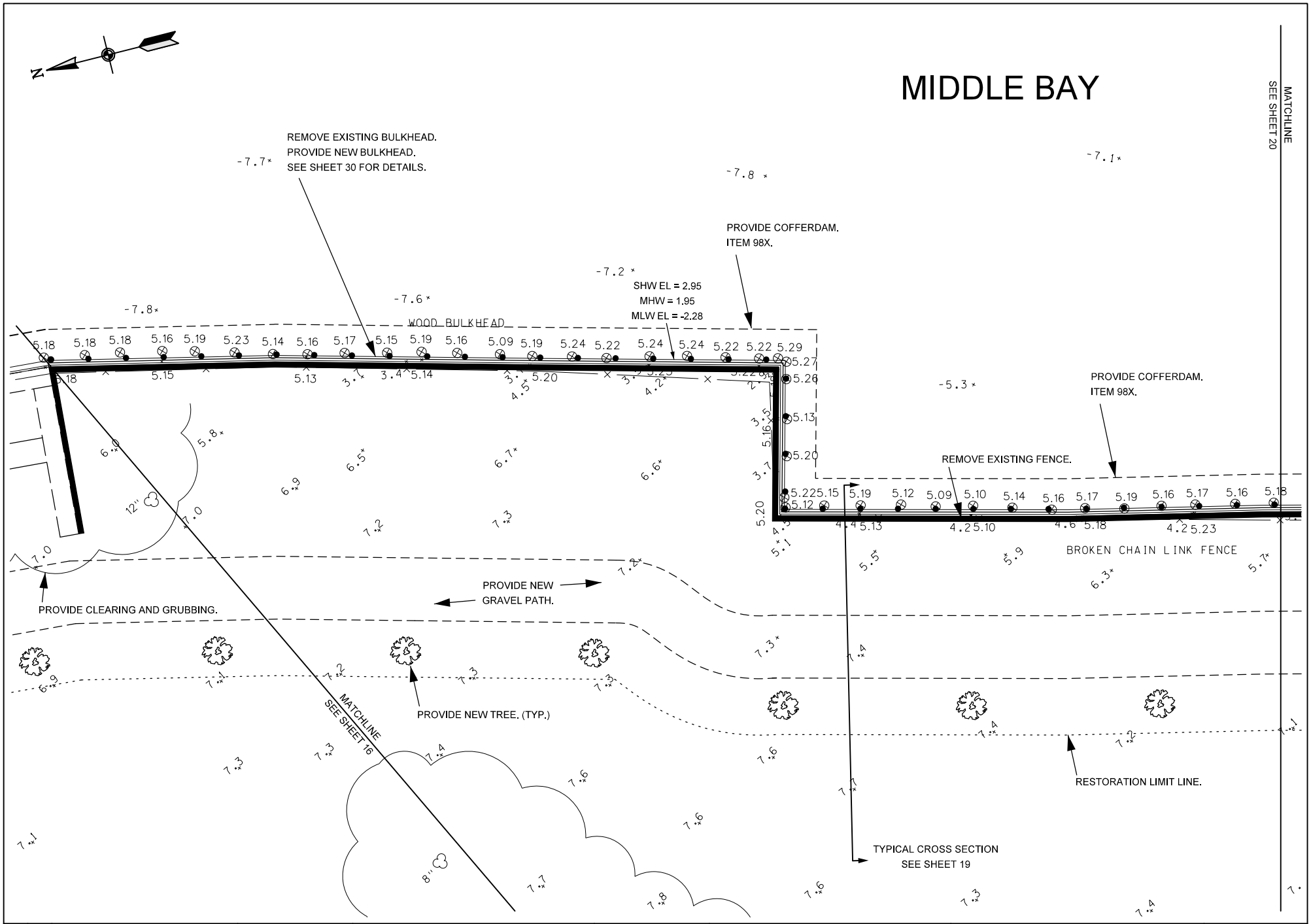
Sheet No.: 17 of 30



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BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'
Date: NOV. 2018
File No.:
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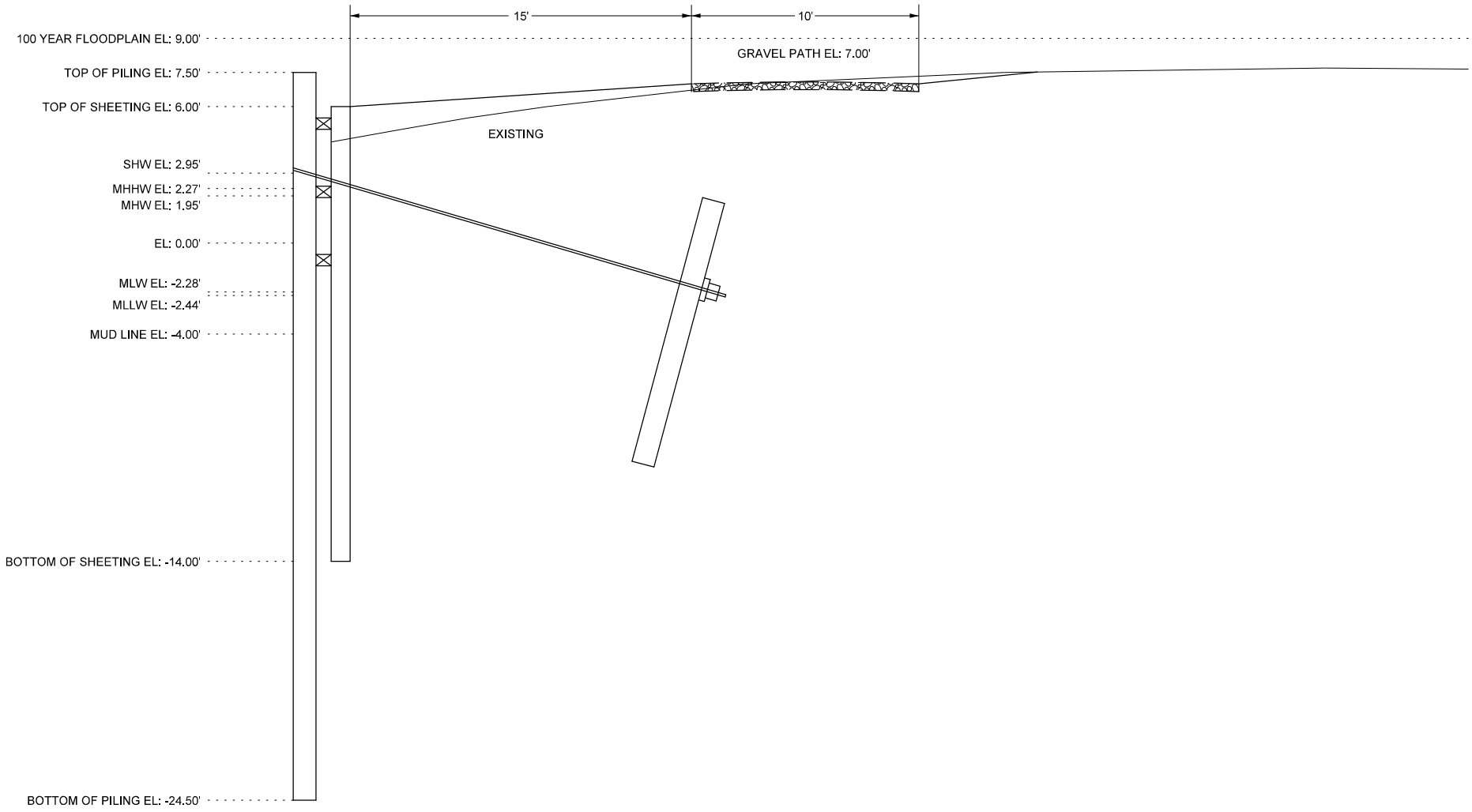

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Department of Engineering

BALDWIN HARBOR CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 19 of 30

MIDDLE BAY

MATCHLINE SEE SHEET 18

MATCHLINE SEE SHEET 22

REMOVE EXISTING BULKHEAD.
PROVIDE NEW BULKHEAD.
SEE SHEET 30 FOR DETAILS.

CONCRETE HEADWALL
BULKHEAD OUTFALL
INV = 2.12

PROVIDE COFFERDAM.
ITEM 98X.

REMOVE EXISTING FENCE.

SHW EL = 2.95
MHW = 1.95
MLW EL = -2.28

15"ERCP

PROVIDE NEW
GRAVEL PATH.

CB
TCP = 7.58
GRATE = 6.93
BOTTOM = 2.3

RESTORATION LIMIT LINE.

REMOVE EXISTING CATCH BASIN. (TYP.)

PROVIDE NEW TREE. (TYP.)

CB
TCP = 7.69
GRATE = 6.94
INV = 2.5

TYPICAL CROSS SECTION
SEE SHEET 21

BULKHEAD EXISTING DRAIN PIPE. (TYP.)

15"PWP

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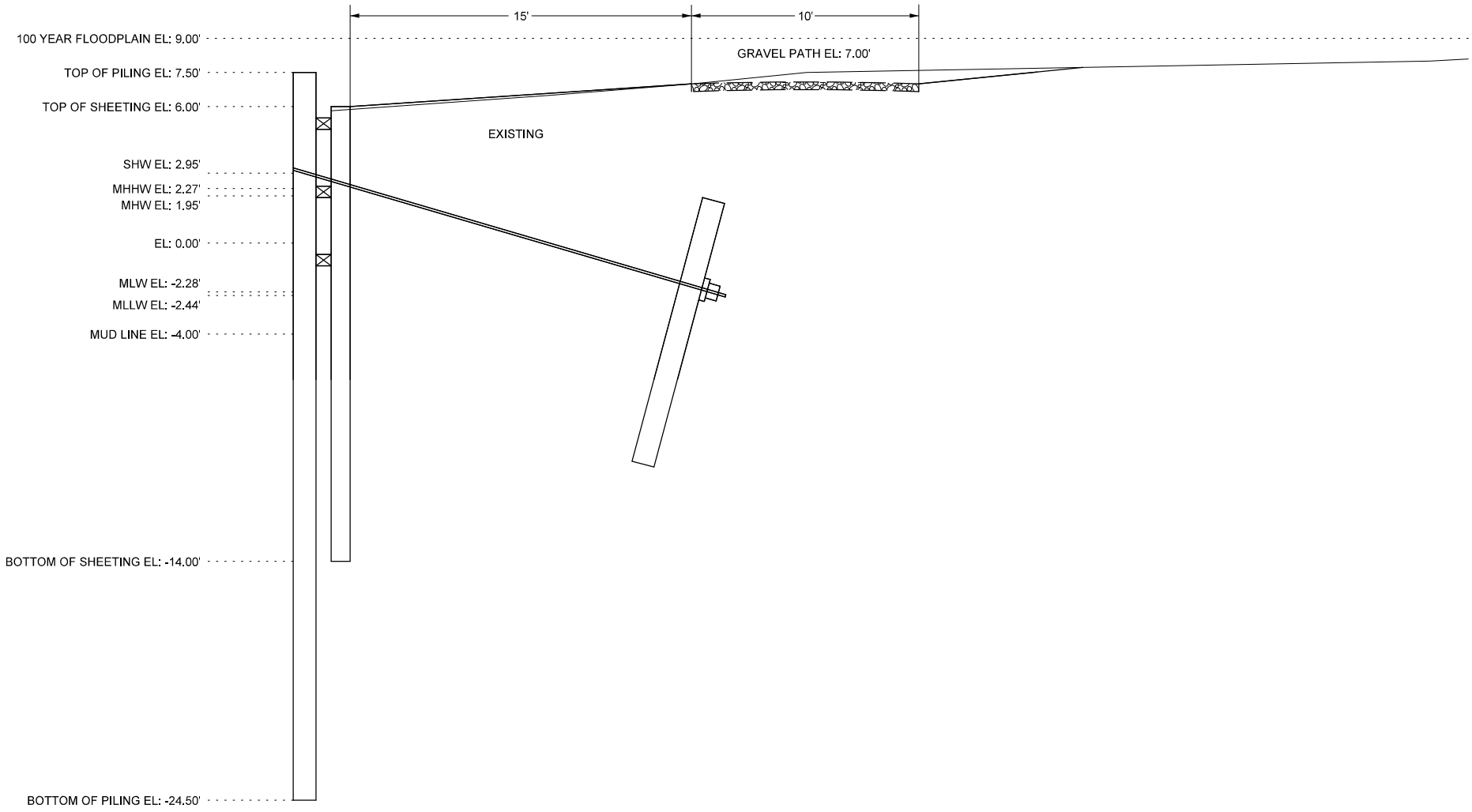
BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 20 of 30



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Department of Engineering

BALDWIN HARBOR CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE

Date: NOV. 2018

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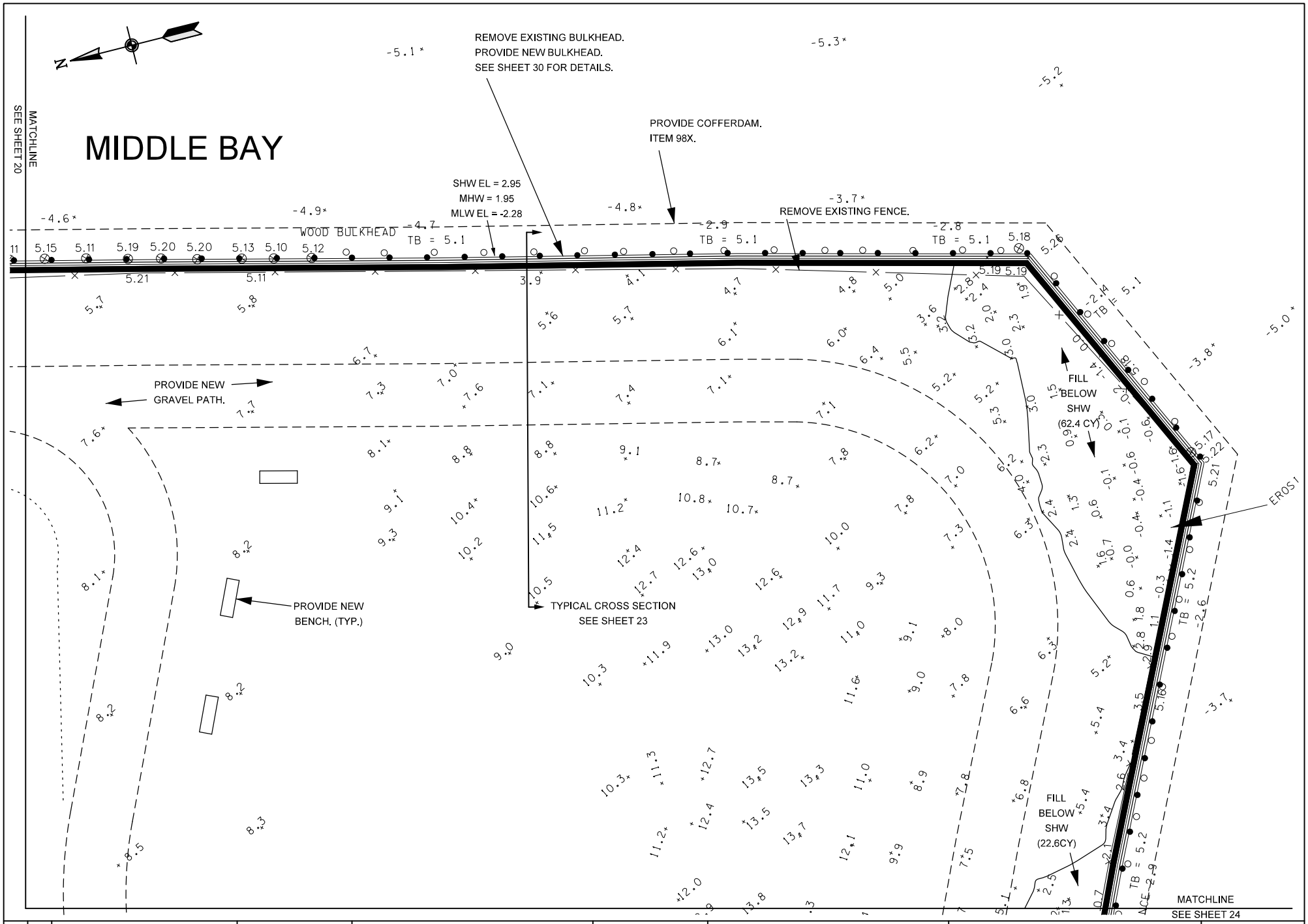

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BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'
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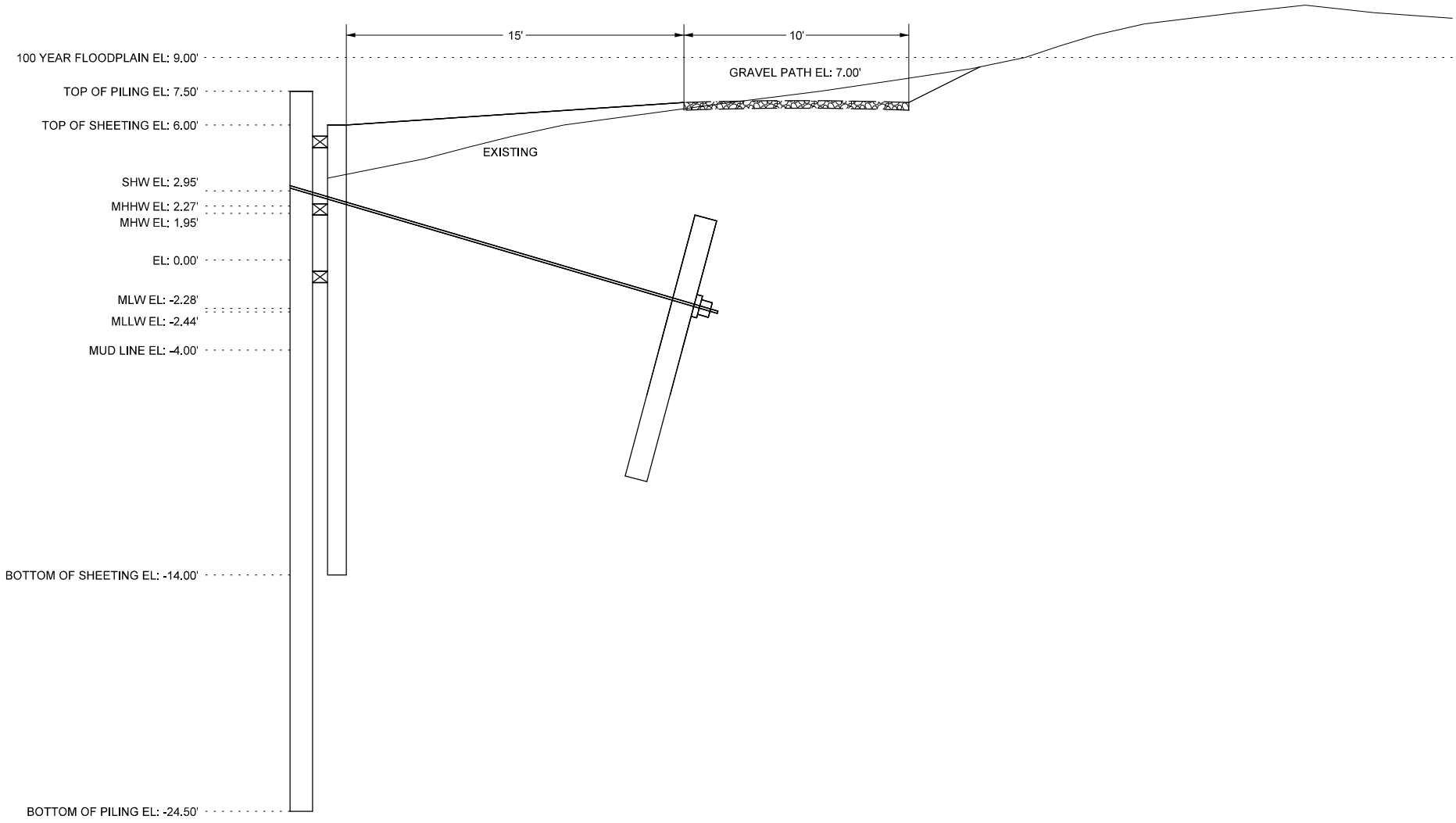

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BALDWIN HARBOR CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
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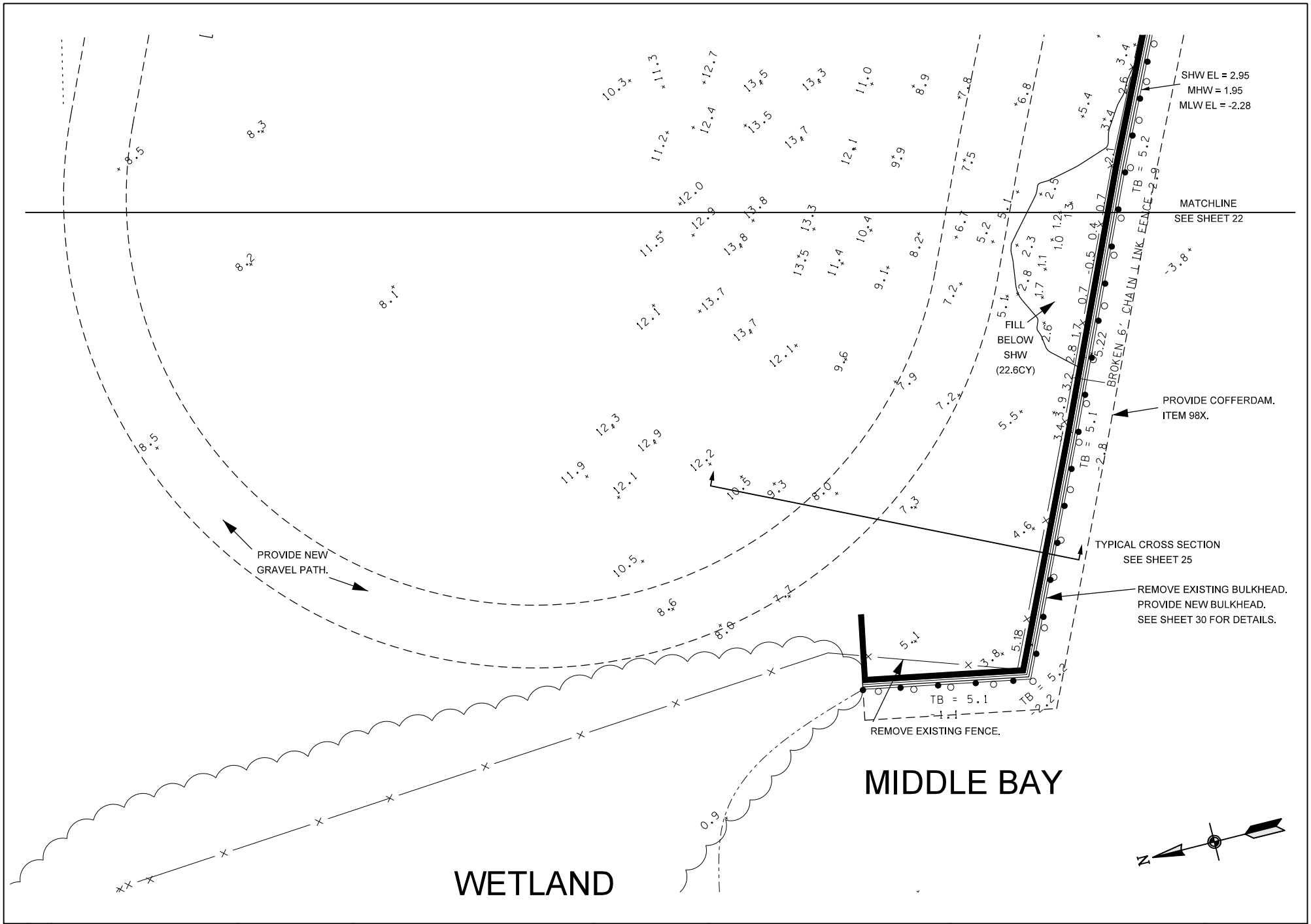

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BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'
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File No.:
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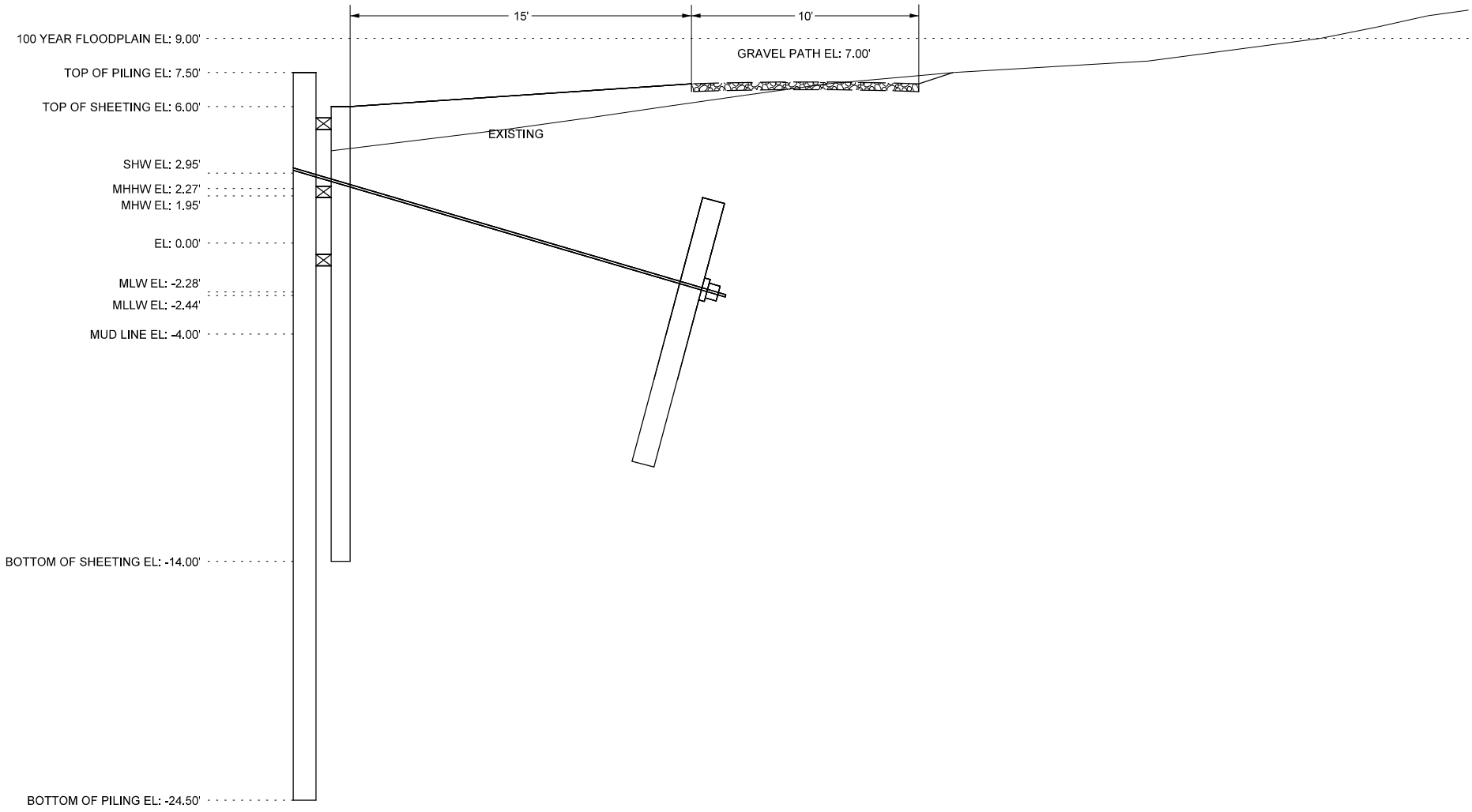

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SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
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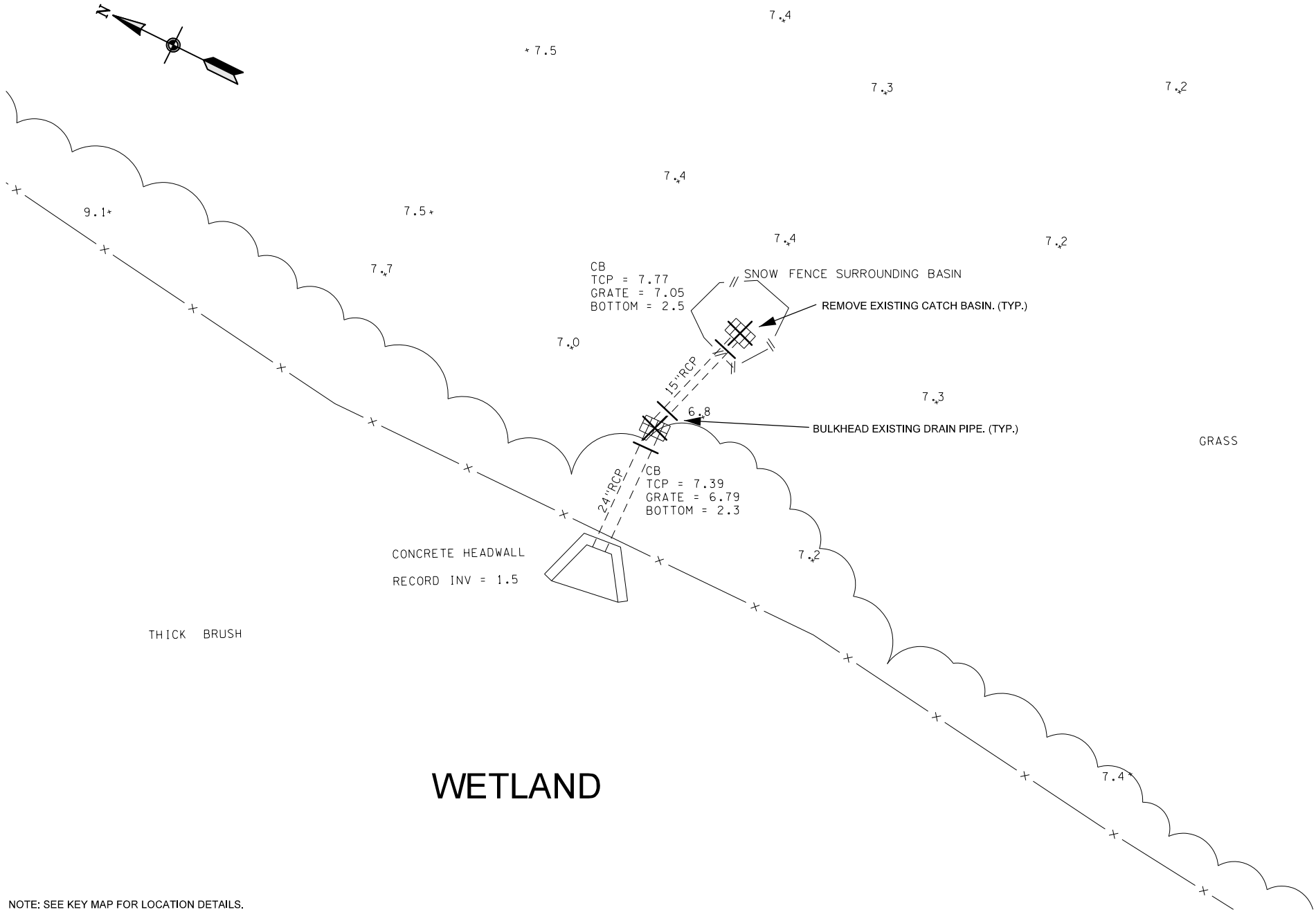
Dwg No.:
Sheet No.: 25 of 30



NOTE: SEE KEY MAP FOR LOCATION DETAILS.

NO.	DATE	REVISIONS

In Charge:	D.L.T.
Compilation:	J.M.T.
Design:	J.M.T.
Drawn:	J.M.T.
Checked:	J.M.T.
Reviewed:	D.L.T.

TOWN OF HEMPSTEAD N.Y. FOUNDED 1644

Department of Engineering

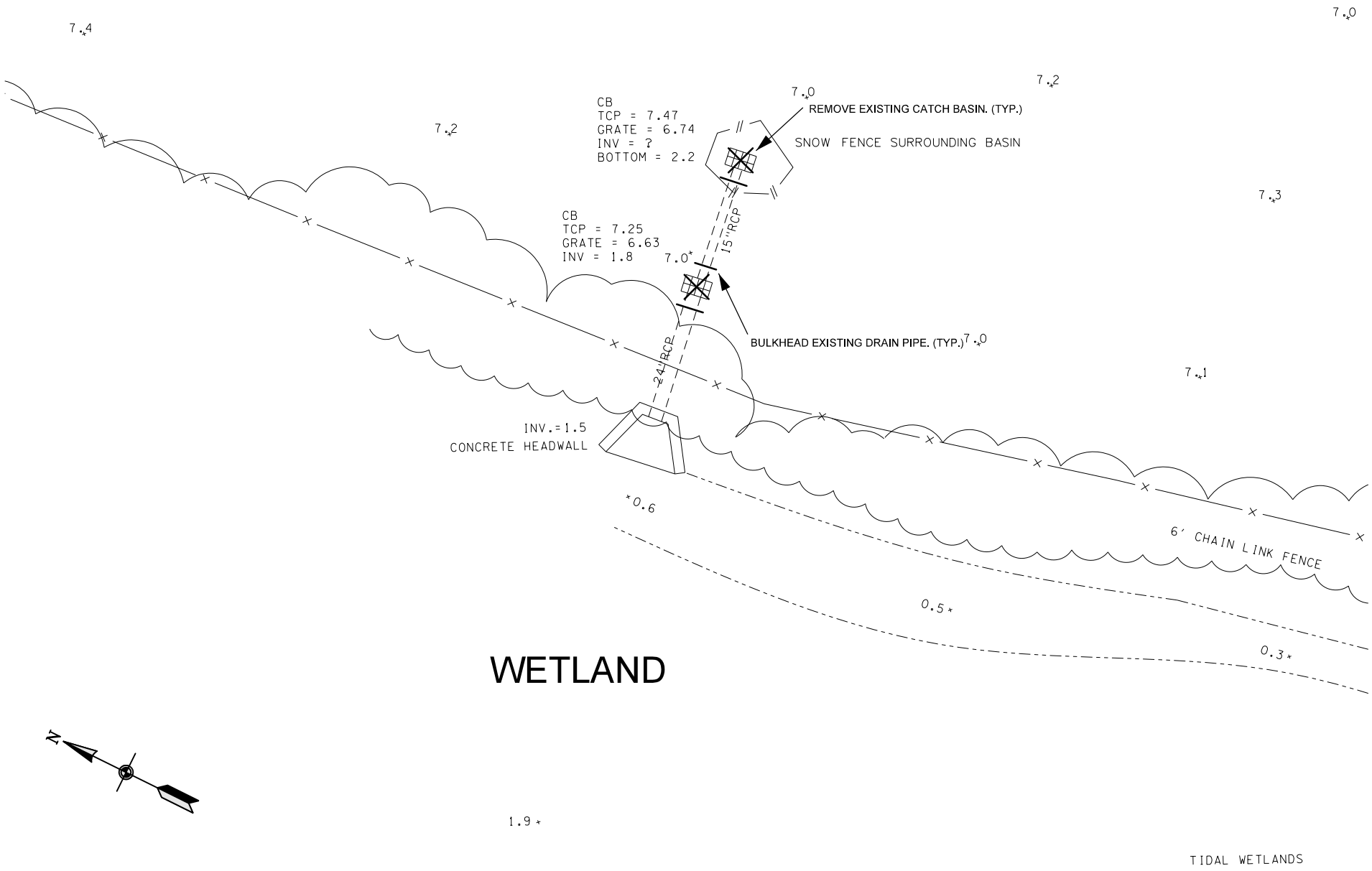
PLAN NOTES:

1. EXISTING CONDITIONS SHOWN AS OF FEBRUARY 2018.
2. UNDERGROUND UTILITIES SHOWN ARE BASED UPON LIMITED SCHEMATIC INFORMATION PROVIDED BY OTHERS. NOT ALL EXISTING UNDERGROUND UTILITY MAINS AND SERVICES ARE SHOWN, PRIVATE UTILITIES, IF EXISTING, ARE NOT SHOWN OR INDICATED.
3. HORIZONTAL AND VERTICAL CONTROL INDICATED IS IN NASSAU COUNTY DATUM. HORIZONTAL CONTROL INDICATED IS NAD83 (1996),US SURVEY FEET. VERTICAL CONTROL INDICATED IS NAVD (1988) FEET.

BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	NOV. 2018
File No.:	
Dwg No.:	
Sheet No.:	26 of 30



NOTE: SEE KEY MAP FOR LOCATION DETAILS.

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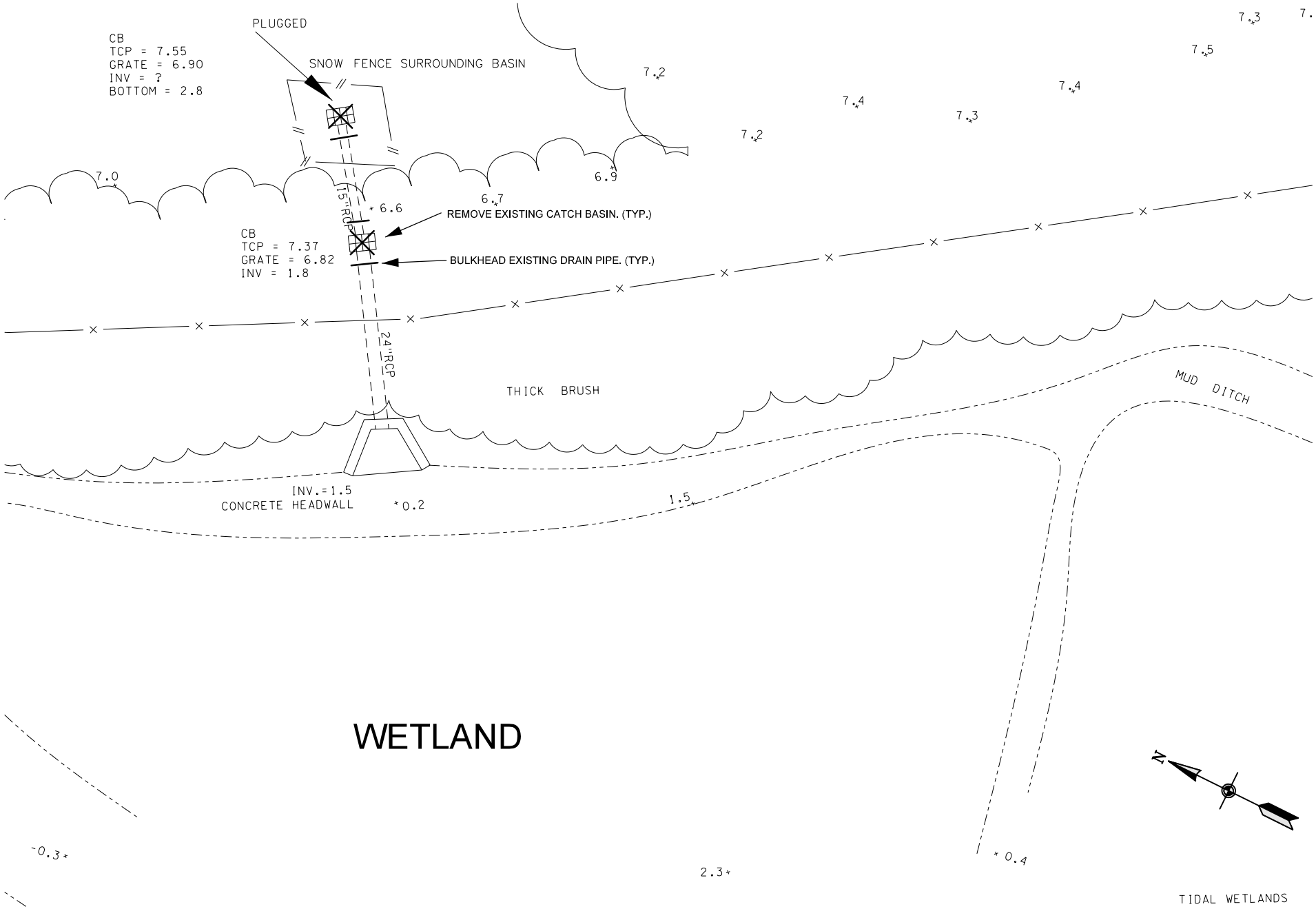
BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	NOV. 2018
File No.:	
Dwg No.:	
Sheet No.:	27 of 30



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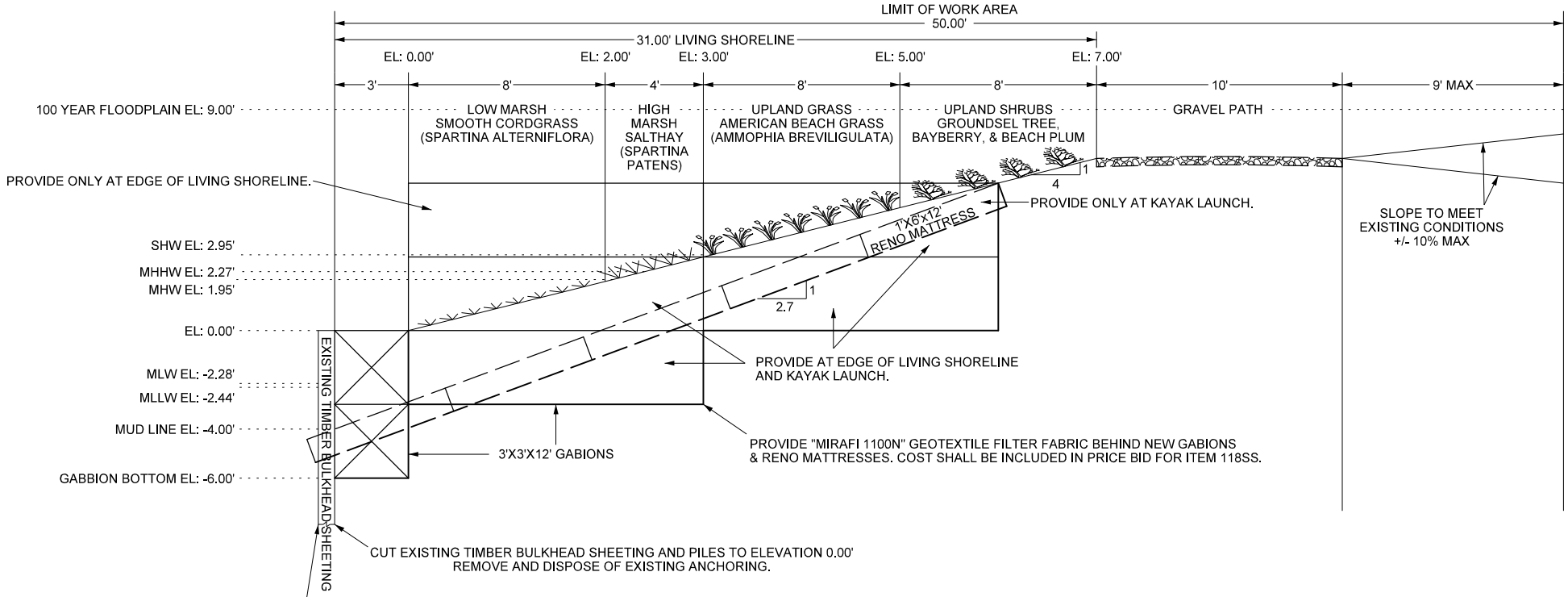
BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	NOV. 2018
File No.:	
Dwg No.:	
Sheet No.:	28 of 30



NOTE:
CONTRACTOR TO FURNISH, MAINTAIN, AND REMOVE COFFERDAMS AND DEWATERING EQUIPMENT.
THE SELECTION OF MATERIALS, THEIR ARRANGEMENT AND DETAILS SHALL BE THE CONTRACTORS OPTION AND RESPONSIBILITY.
ITEM 98X.

PLANTING SPECIFICATIONS

LOW MARSH:
Smooth Cordgrass (Spartina Alteriflora)
All plants to be Nursery Grown in 2" Peat pots, planted on 18" centers. Stagger rows.

HIGH MARSH:
Saltmeadow Cordgrass (Spartina Patens)
All plants to be Nursery Grown in 2" Peat pots, planted on 18" centers. Stagger rows.

UPLAND GRASS:
American Beachgrass (Ammonphila Breviligulata)
Install on 18" centers. 3 culms/planting unit. Stagger rows.
Fertilize in early spring. 30lbs inorganic nitrogen/acre.

UPLAND SHRUBS:
Groudsel Tree (Baccharis Hamlimifolia)
Bayberry (Myrica Pennsylvanica)
Beach Plum (Prunus Maritima)
All plants to be Nursery Grown, 2 Gallon Minimum. Install on 6' centers.
Fertilize with 1 tablespoon of Osmocote 18-6-12 per planting hole.

NOTE:
Smooth Cordgrass plantings to be installed prior to Saltmeadow Cordgrass plantings to prevent disturbence.
Saltmeadow Cordgrass plantings to be installed prior to upland plantings to prevent disturbence.
All plant installation and seeding to occur between March 15 and May 15 or September 15 to October 15.

HORIZONTAL AND VERTICAL CONTROL INDICATED IS IN NASSAU COUNTY DATUM. HORIZONTAL CONTROL INDICATED IS NAD83 (1996),US SURVEY FEET. VERTICAL CONTROL INDICATED IS NAVD (1988) FEET.

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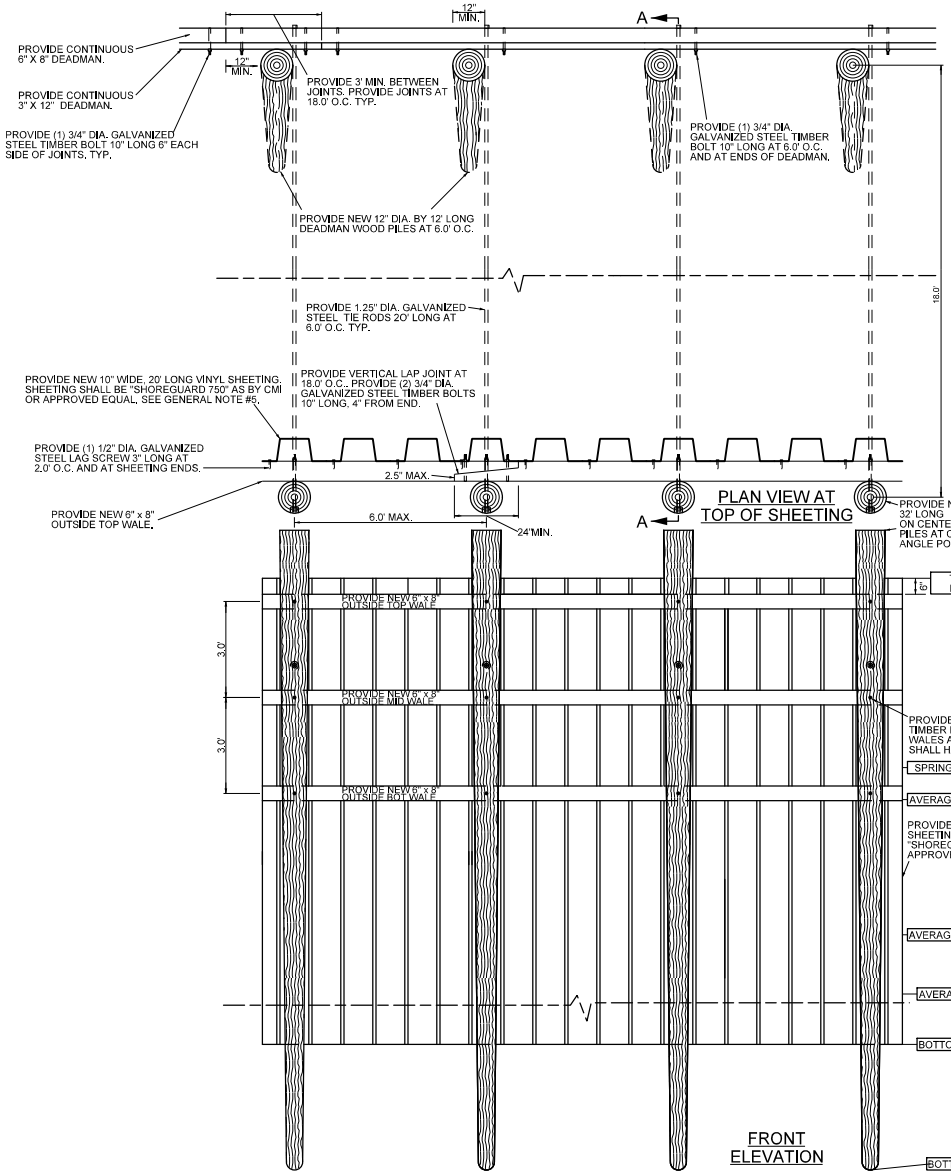
TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
Department of Engineering

LIVING SHORELINE DETAIL

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 29 of 30



ITEM 204X GENERAL NOTES:

1. ALL LUMBER AND TIMBER SIZES INDICATED ARE NOMINAL. ALL DIMENSIONS INDICATED ARE FINISHED.
2. ALL LUMBER AND TIMBER SHALL BE CCA AND PRESSURE TREATED TO OBTAIN A MINIMUM RETENTION OF 2.5 LBS/CF.
3. NEW RETURNS AND CONNECTIONS TO EXISTING BULKHEADS AT LIMITS OF NEW BULKHEAD SHALL BE DETERMINED IN FIELD A.O.B.E.
4. EXISTING BULKHEADS AND EXISTING BULKHEAD ANCHORING COMPONENTS SHALL BE COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 204X.
5. SEE PLANS FOR NEW TOP OF SHEETING ELEVATIONS, NEW SHEETING LENGTHS AND NEW PILE LENGTHS.
6. ALL TIMBER AND CARRIAGE BOLTS SHALL BE PROVIDED WITH ONE N.Y.D.D.WASHER AND NUT AT END.
7. ALL LAG SCREWS SHALL BE PROVIDED WITH ONE N.Y.D.D.WASHER AT HEAD END.
8. ALL TIE RODS SHALL BE PROVIDED WITH TWO N.Y.D.D.WASHERS AND NUTS AT EACH END.
9. ALL BOLTS AND TIE RODS SHALL BE CUT FLUSH AT NUT END WHERE SHOWN AND WHERE NECESSARY TO INSTALL NEW BULKHEAD COMPONENTS.
10. ALL TIE RODS SHALL BE CUT FLUSH AT FRONT OF PILES. NUTS AND WASHERS SHALL BE COUNTERSUNK.
11. ALL HARDWARE AND FASTENERS SHALL BE GALVANIZED STEEL UNLESS OTHERWISE SHOWN AND MEET N.C.D.P.W SPECIFICATIONS.
12. ALL OPENINGS IN NEW SHEETING FOR TIE RODS SHALL BE LIMITED IN SIZE AS FOLLOWS: THRU WALL DIMENSION PLUS ONE INCH.

HORIZONTAL AND VERTICAL CONTROL INDICATED IS IN NASSAU COUNTY DATUM. HORIZONTAL CONTROL INDICATED IS NAD83 (1996),US SURVEY FEET. VERTICAL CONTROL INDICATED IS NAVD (1988) FEET.

NO.	DATE	REVISIONS

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Compilation:	J.M.T.
Design:	J.M.T.
Drawn:	J.M.T.
Checked:	J.M.T.
Reviewed:	D.L.T.

TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
Department of Engineering

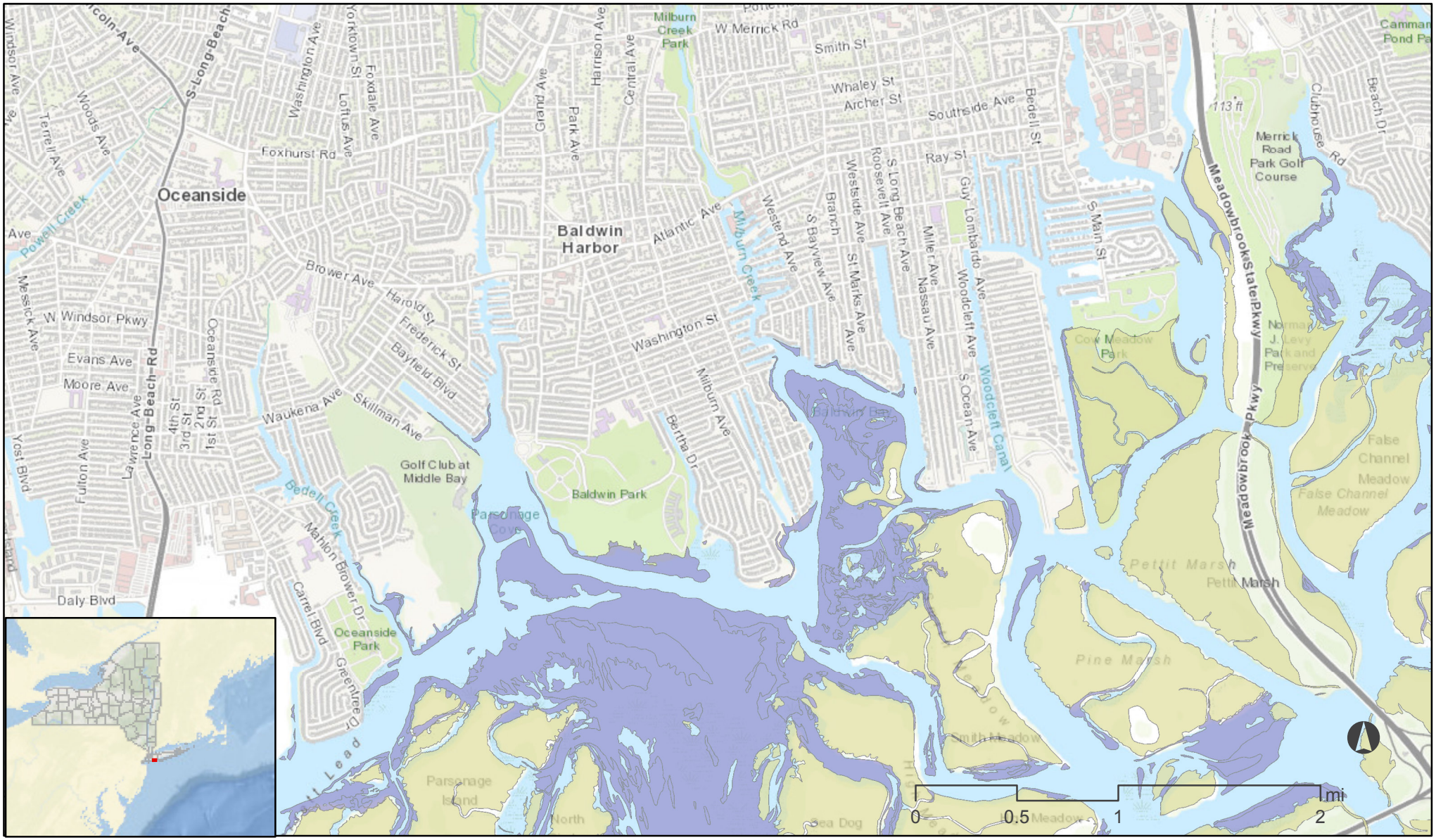
BULKHEAD DETAIL

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 30 of 30

Attachment 3 – Submerged Aquatic Vegetation Map

Baldwin Park



Aquatic Vascular Vegetation

Benthic Macroalgae

Emergent Tidal Marsh

Mollusk Reef Biota

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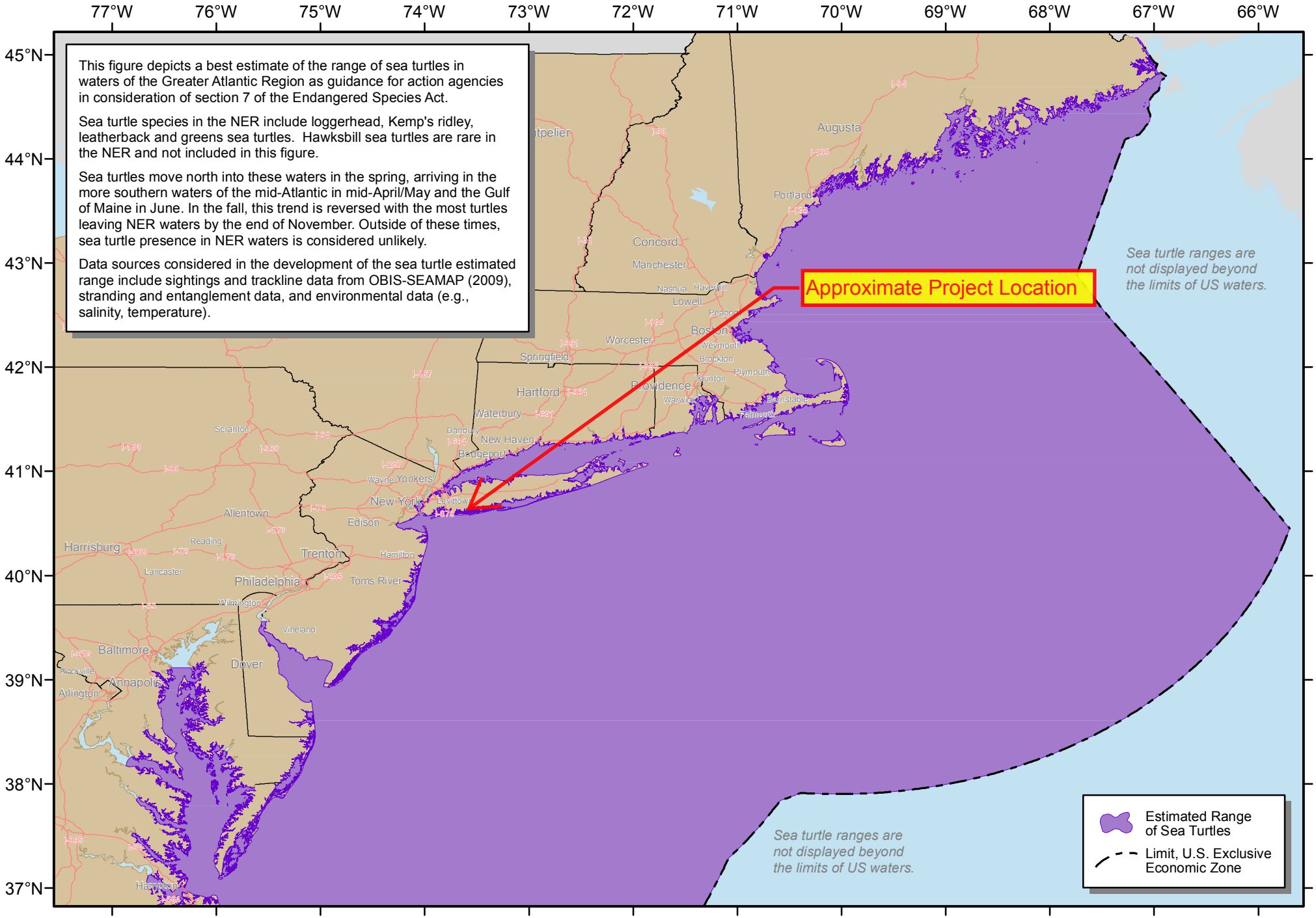
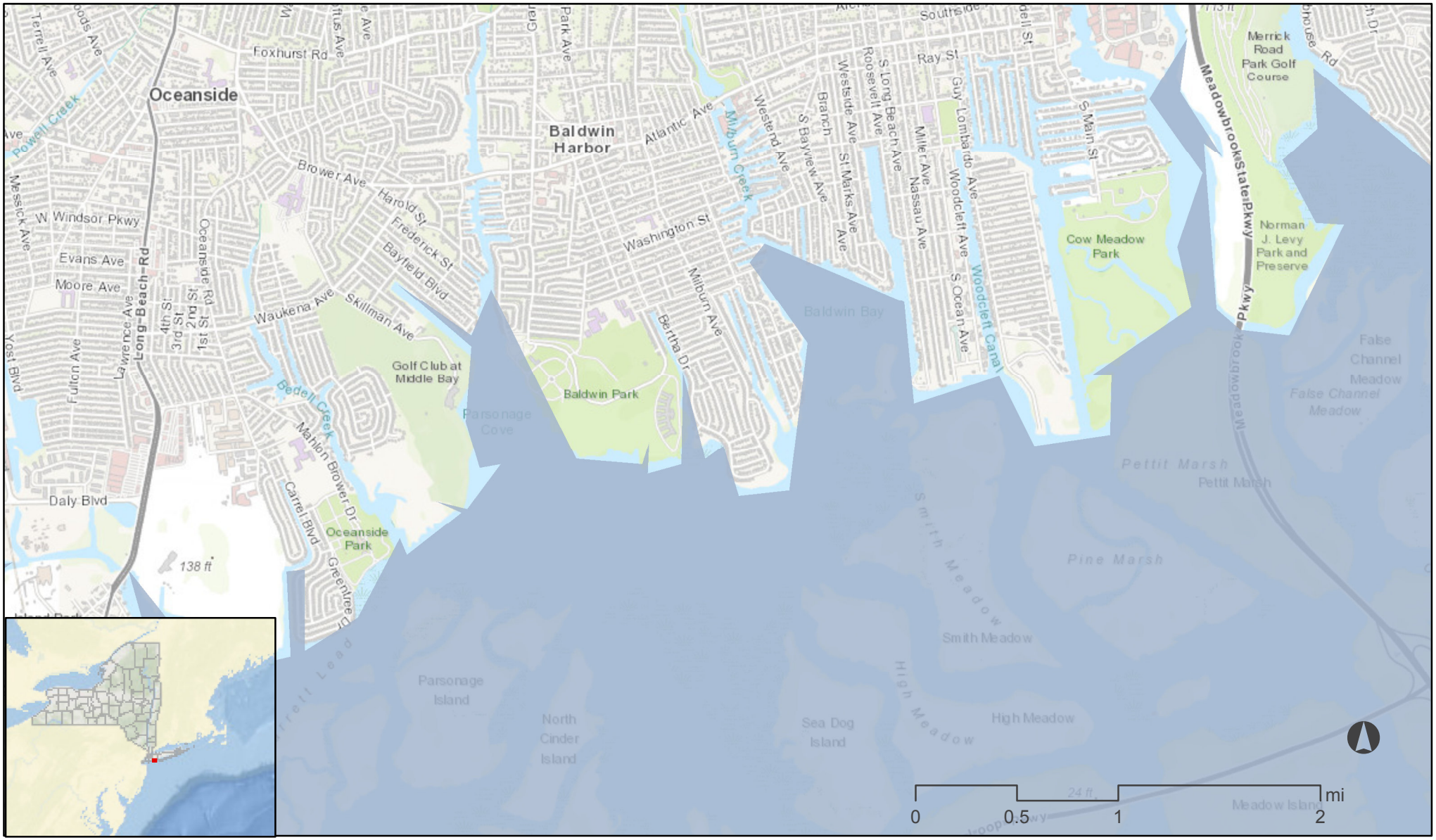
Attachment 4 – Map of Estimated Range of Sea Turtles

Estimated Range of Sea Turtles



Green Sea Turtle



No Sightings

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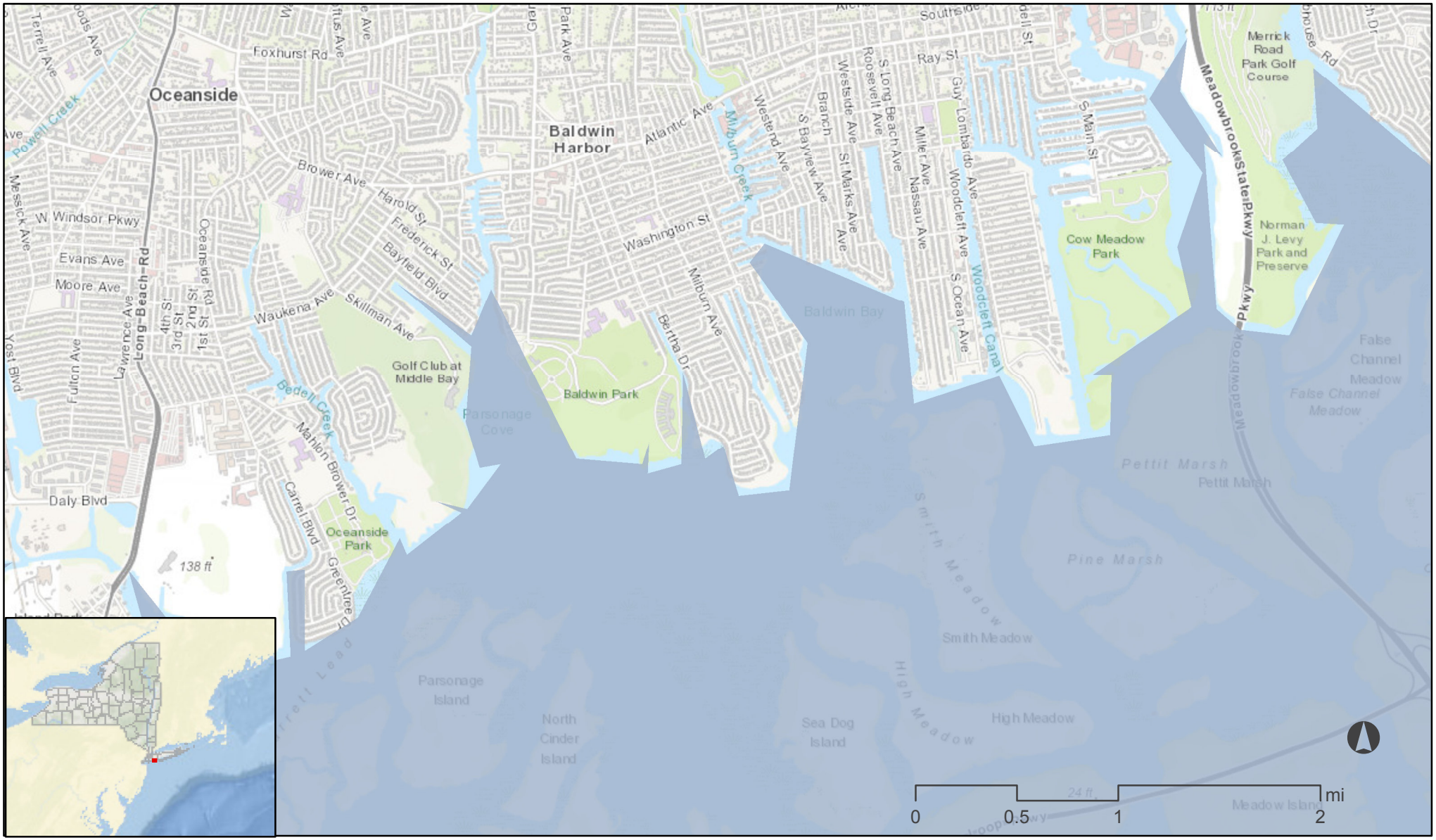
Leather Back Sea Turtle



No Sightings | <1 | 1-10 | 10-100 | >100

NEW YORK STATE OF OPPORTUNITY. Department of State

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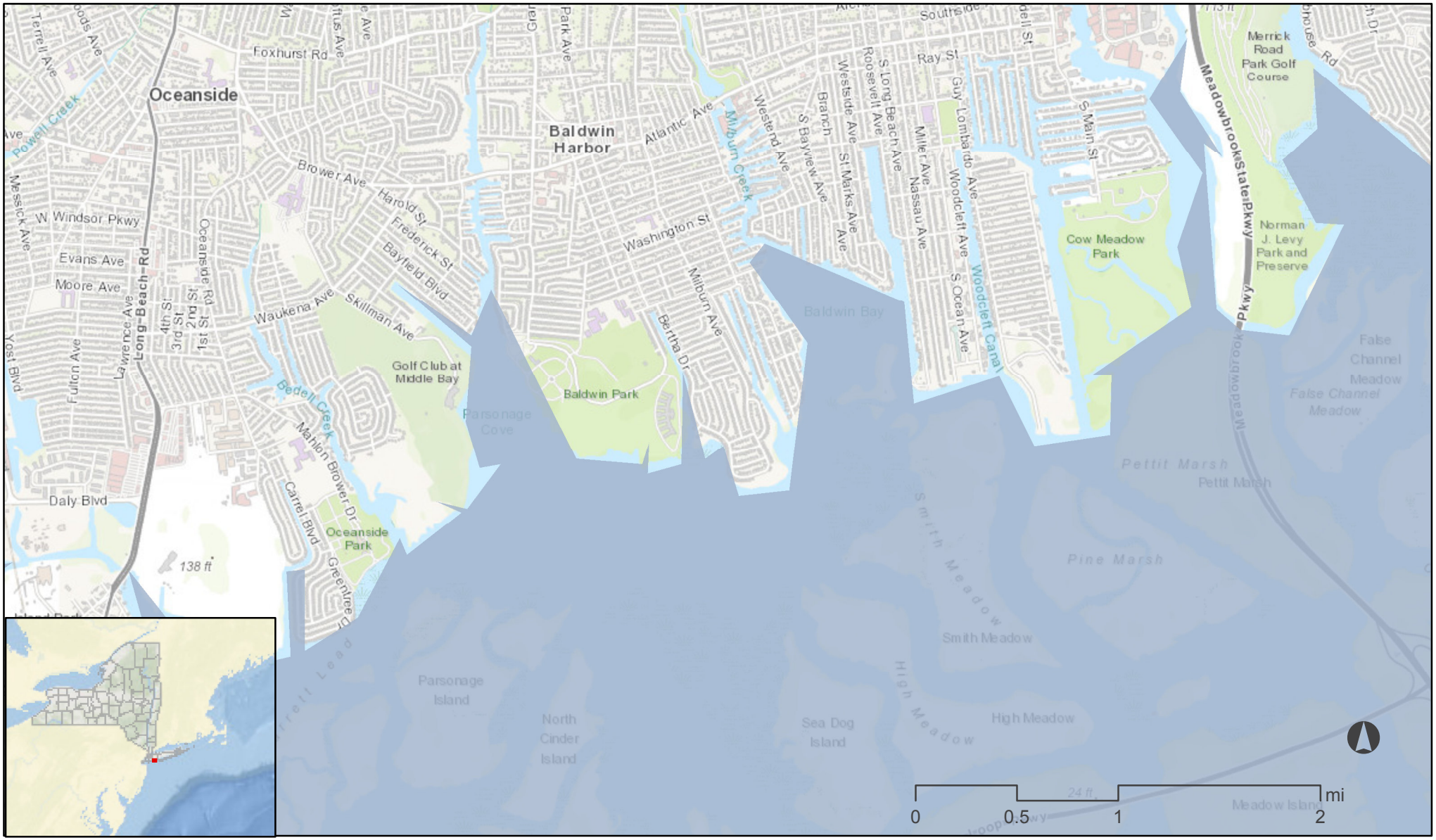
Loggerhead



No Sightings | <1 | 1-10 | 10-100 | >100

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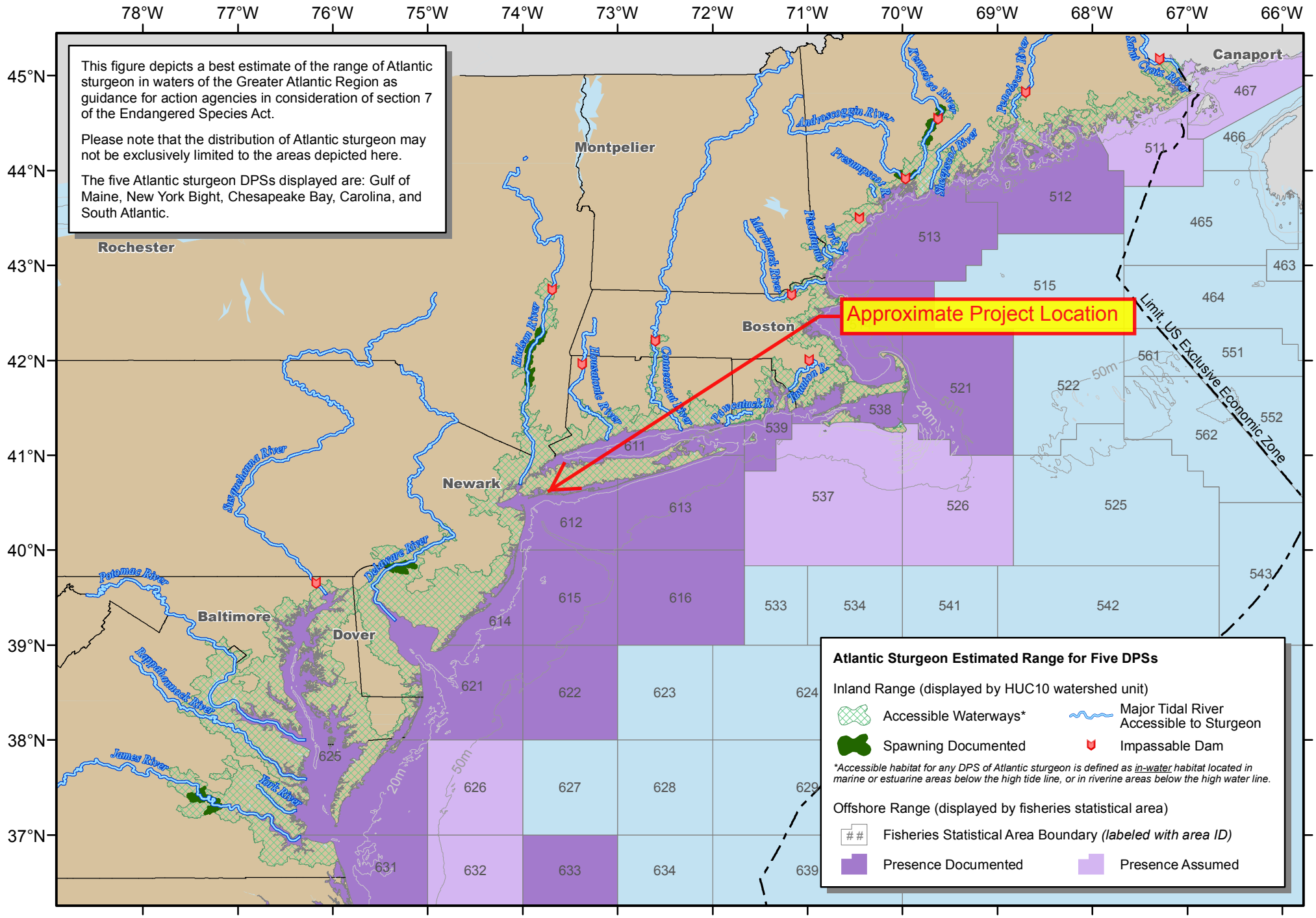
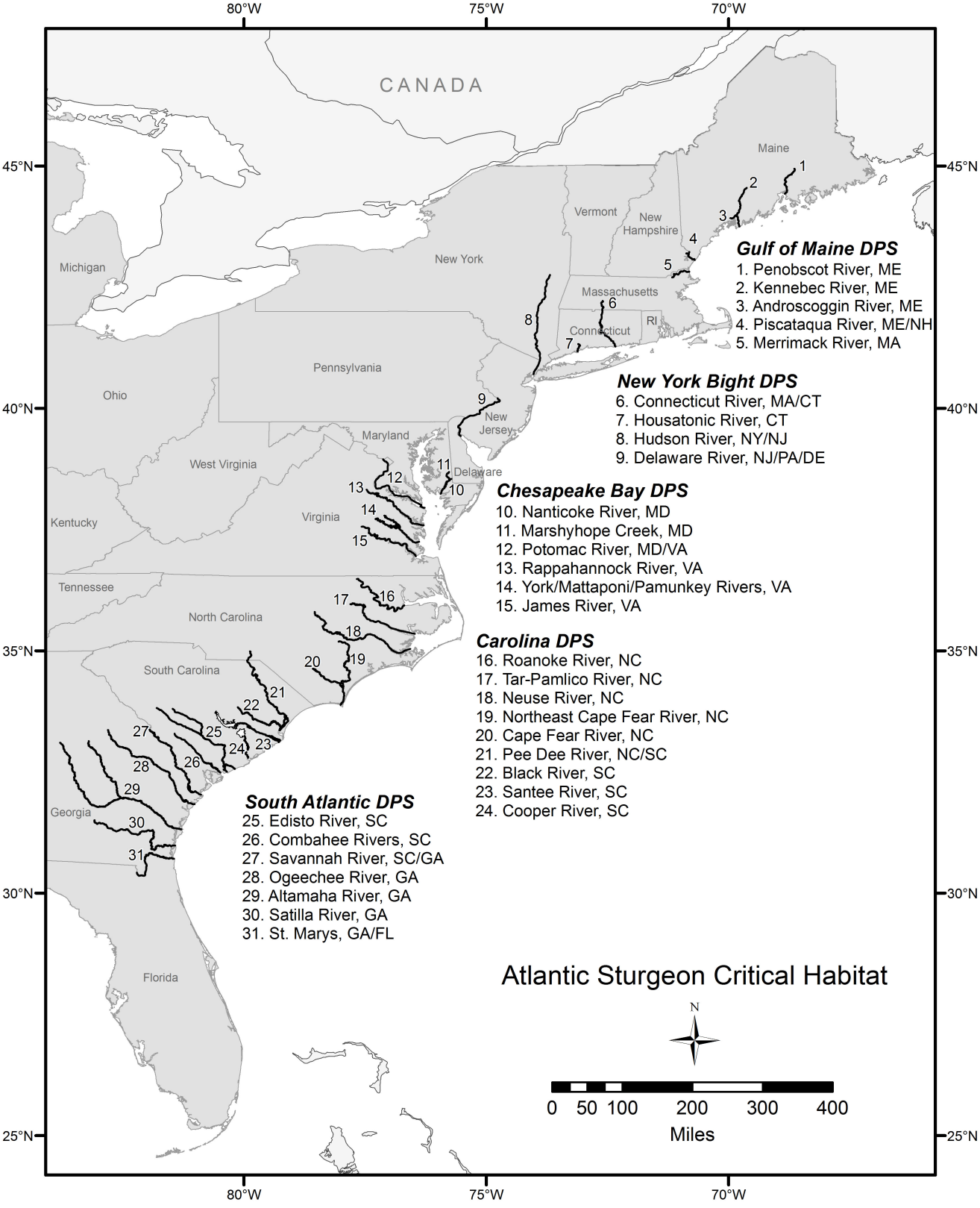
Attachment 5 – Map of Estimated Range of Atlantic Sturgeon Distinct Population Segments

Estimated Range of Atlantic Sturgeon Distinct Population Segments (DPSs)




80°W
75°W
70°W
45°N
40°N
35°N
30°N
25°N
CANADA
Maine
Vermont
New Hampshire
New York
Michigan
Massachusetts
RI
Connecticut
Pennsylvania
Ohio
New Jersey
Maryland
Delaware
West Virginia
Virginia
Kentucky
Tennessee
North Carolina
South Carolina
Georgia
Florida
Gulf of Maine DPS
1. Penobscot River, ME
2. Kennebec River, ME
3. Androscoggin River, ME
4. Piscataqua River, ME/NH
5. Merrimack River, MA
New York Bight DPS
6. Connecticut River, MA/CT
7. Housatonic River, CT
8. Hudson River, NY/NJ
9. Delaware River, NJ/PA/DE
Chesapeake Bay DPS
10. Nanticoke River, MD
11. Marshyhope Creek, MD
12. Potomac River, MD/VA
13. Rappahannock River, VA
14. York/Mattaponi/Pamunkey Rivers, VA
15. James River, VA
Carolina DPS
16. Roanoke River, NC
17. Tar-Pamlico River, NC
18. Neuse River, NC
19. Northeast Cape Fear River, NC
20. Cape Fear River, NC
21. Pee Dee River, NC/SC
22. Black River, SC
23. Santee River, SC
24. Cooper River, SC
South Atlantic DPS
25. Edisto River, SC
26. Combahee Rivers, SC
27. Savannah River, SC/GA
28. Ogeechee River, GA
29. Altamaha River, GA
30. Satilla River, GA
31. St. Marys, GA/FL
Atlantic Sturgeon Critical Habitat
N
0 50 100 200 300 400
Miles

Governor's Office of Storm Recovery

ANDREW M. CUOMO
Governor

MEMORANDUM

DATE: June 11, 2019

TO: File

FROM: Alicia Shultz, Senior Environmental Scientist – Governor's Office of Storm Recovery

SUBJECT: **No Effect Determination – NOAA NMFS Section 7 Project Review**

Baldwin Park Water Shoreline Stabilization - Town of Hempstead
Baldwin Park, Town of Hempstead, Nassau County, New York

The Governor's Office of Storm Recovery (GOSR), acting under the auspices of New York State Homes and Community Renewal's (HCR) Housing Trust Fund Corporation (HTFC), on behalf of the U.S. Department of Housing & Urban Development (HUD), is preparing an environmental review in accordance with the National Environmental Policy Act (NEPA) process for the Baldwin Park Water Shoreline Stabilization Project. GOSR proposes to use HUD Community Development Block Grant Disaster Recovery (CDBG-DR) program funding to complete this project. GOSR has made the determination that the proposed activity will have no effect on any species listed as threatened or endangered by National Marine Fisheries Service (NMFS) under the Endangered Species Act (ESA) of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.). This determination was made in accordance with the NMFS Greater Atlantic Region Section 7 Program Guidance and pursuant to Section 7 of ESA and the Marine Mammal Protection Act (MMPA). Our supporting analysis is provided below.

Project Description

The Town of Hempstead is requesting CDBG-DR funding for implementation of shoreline improvements within the Town of Hempstead's Baldwin Park located at 3232 Grand Avenue, Baldwin, New York (Attachment 1). The Proposed Project was developed to stabilize the property, provide storm surge protection and to improve and expand recreational use by the public.

The Proposed Project would include:

- Installation of sediment control/surface water protection devices followed by installation of a temporary cofferdam.
- Removal of 1,600 linear feet of existing and compromised timber bulkhead along Oakwood Canal.
- Rough grading to provide for 1,600 feet of living shoreline along Oakwood Canal. The living shoreline would consist of an armored toe stabilization set at the mean highwater line designed with large revetment stones protecting a stone core.

- In-place and in-kind replacement of approximately 800 linear feet of existing timber bulkhead with approximately 138 new 12-inch diameter timber piles to be installed using an impact hammer along the replacement bulkhead; a vibratory hammer will be utilized to facilitate the installation of new vinyl sheeting. The new bulkhead would be set with a top elevation of 5.25 or 6.25, consistent with the existing timber bulkhead elevation.
- Removal of five existing outfalls and associated catch basins.
- Removal of 36 trees in poor condition to be replaced with 63 trees along the shoreline.
- Construction of an approximately 0.3-acre gravel parking lot near the northern section of the site.
- Construction of an eight-foot wide gravel pedestrian path.
- Construction of a permanent waterfront landing for non-motorized equipment (canoes and kayaks) for use by the public (Attachment 2, Design Plans).

Submerged aquatic vegetation (SAV) is located in the general area of, but not adjacent, to the in-kind bulkhead replacement within Middle Bay (Attachment 3).

Purpose

The purpose of the Proposed Project is to implement storm protection measures along the shoreline of Baldwin Park to minimize further erosion and damage that resulted from Superstorm Sandy and other recent storms. The Proposed Project would also provide public waterfront access at Baldwin Park, as well as access to the Blueway Trail, enabling residents to enjoy open space and recreational activities.

Baldwin Park needs rehabilitation and protection from storm surges and tidal wave activity. The existing timber bulkhead that surrounds the project area exhibits signs of deterioration to the point where the areas upslope of the bulkhead is being eroded in multiple locations due to bulkhead breaches. During times of heavy precipitation, soil erosion into the surrounding waterbodies continues to this day, adversely affecting water quality. The Proposed Project would help protect both water quality and a key community natural and cultural asset from future flood risk and erosion and reduce the need for recovery resources following a major storm event. Further, stabilization of this shoreline and the re-establishment of marsh vegetation is expected to attenuate wave energy and reduce the risk of flood damage to the surrounding neighborhoods.

Duration of the Project

The proposed project is estimated to be completed in a 3-4-month period after ACOE approval, bid/contractor selection and equipment mobilization. The equipment utilized will be determined by the selected contractor, but in general terms will include a combination of landward and seaward equipment (barge and/or excavators).

Permitting

The following New York State Department of Environmental Conservation (NYSDEC) permit authorizations will be required before commencing construction activities:

- NYSDEC Tidal Wetlands –ECL Article 25
- NYSDEC Protection of Waters – ECL Article 15, Excavation and Fill in Navigable Waters
- NYSDEC Water Quality Certification – Clean Water Act Section 401

Additionally, project activities fall under United States Army Corps of Engineers (USACE) Nationwide Permit (NWP) 13 – BANK STABILIZATION – "[b]ank stabilization activities necessary for erosion prevention…," and NWP 3 – MAINTENANCE – "..replacement of any previously authorized, currently

serviceable structure or fill …," and a Pre-Construction Notification (PCN) must be submitted to the USACE and a NWP verification letter from the USACE should be received prior to the start of construction activities. The project will be constructed in accordance with all federal, state and local permit conditions which are protective of Federally-listed threatened and endangered species and the environment.

NMFS Listed Species in the Action Area

There are four species of sea turtles and one species of fish under the jurisdiction of NMFS that have the potential to occur in the action area. These species include:

Sea Turtles

Loggerhead Turtle (*Caretta caretta*) (76 FR 58868; Recovery plan: NMFS & USFWS 2008)
Kemp's Ridley Turtle (*Lepidochelys kempii*) (35 FR 18319; Recovery plan: NMFS *et al*. 2011)
Green Turtle (*Chelonia mydas*) (81 FR 20057; Recovery plan: NMFS & USFWS 1991)
Leatherback Turtle (*Dermochelys coriacea*) (35 FR 8491; Recovery plan: NMFS & USFWS 1992)

Fish

Atlantic Sturgeon (*Acipenser oxyrinchus oxyrinchus*) (77 FR 5880 and 77 FR 5914)

Sea Turtles

Four species of federally listed threatened or endangered sea turtles are found seasonally in the coastal waters of Jones Beach Island (see Estimated Range of Sea Turtles in **Attachment 4**). These species include the threatened Northwest Atlantic Ocean distinct population segment (DPS) of loggerhead and North Atlantic DPS of green, and the endangered Kemp's ridley and leatherback sea turtles. Sea turtles are generally distributed in coastal Atlantic waters from Florida to New England. As water temperatures of coastal waters rise in the spring, turtles begin to migrate north from their overwintering waters in the south. Sea turtles are expected to be found in the northeast during the summer and fall months (May-November) when the water temperatures are at least 59° F (Shoop and Kenney, 1992) with the highest concentrations of turtles occurring from June through October (Morreale et al., 2005).

Satellite tracking studies of sea turtles have found that foraging turtles mainly occurred in areas where the water depth was between approximately 16 and 49 feet (Ruben and Morreale 1999). This depth was interpreted not to be an upper physiological depth limit for turtles, but rather a natural limiting depth where light and food are most suitable for foraging turtles (Morreale and Standora 1998). Leatherback sea turtles feed almost exclusively on jellyfish in offshore marine environments, whereas green sea turtles tend to frequent seagrass beds. Loggerhead and Kemp's ridley sea turtles feed on mollusks and crustaceans in a variety of habitats. The area where the revetment will be constructed is between Mean Low Water Level and Mean High Water Level, shallow water depth, which is shallower than areas where the sea turtles would occur. Based on this information, sea turtles are not expected to occur in area where construction will be completed. However, foraging may occur area in the action area immediately adjacent to the construction area. Sea turtles could also pass through the action area in search of areas that support foraging and may seasonally be present in the vicinity of the project from May to November.

The presence of Loggerhead, Leatherback, Green and Kemp's sea turtles in the project area is unlikely. Their presence in shallow waters adjacent to the shoreline where bulkheads and docks are typically installed would be rare due to lack of preferred habitat. If such a species was present, it would be a transient presence with a limited temporal duration.

Because the action area does not provide preferred habitat for the turtle species, GOSR has made a no effect determination for the turtle species.

Fish

Atlantic Sturgeon

Atlantic sturgeon originating from the New York Bight, Chesapeake Bay, South Atlantic, and Carolina DPSs are listed as endangered, while the Gulf of Maine DPS is listed as threatened. The marine range of all five DPSs extends along the Atlantic coast from Canada to Cape Canaveral, Florida and includes the action area. As such, Atlantic sturgeon from any of the five DPSs may occur in the action area, which is located in the coastal waters south of Long Island (see Estimated Range of Atlantic Sturgeon Distinct Population Segments [DPS] Map in **Attachment 4**).

Atlantic sturgeon spawning and early life stages occur in major tidally influenced freshwater rivers. Early life stages and young of the year have limited tolerance to salinity and remain in freshwater reaches of their natal river until reaching the sub-adult stage when individuals have a higher tolerance for saline conditions. No spawning or early life stages of Atlantic sturgeon occur in the action area, as the environment is saline and there is no direct connectivity to a large river that would support spawning or early life stages of Atlantic sturgeon.

At around three years of age, sub-adults exceeding 70 centimeters in total length begin to migrate to marine waters (Bain et al. 2000). Research has shown that adult and sub-adult Atlantic sturgeon inhabiting marine waters generally prefer nearshore areas dominated by sand and gravel substrates with depths ranging from 10 to 50m (Stein et al., 2004). In the coastal waters of New York, Atlantic sturgeon have been found to predominantly occupy water that is less than 20m deep (Dunton et al., 2015). The area to be dredged is approximately 5 feet deep according to NOAA Nautical Charts, which is shallower than areas where we would expect sturgeon to occur. There are documented SAV beds located immediately adjacent to the proposed project area, within the action area in Middle Bay (see SAV map in **Attachment 2**).

Given the shallow depths in the construction area, Atlantic sturgeon are not expected to be within the area. However, foraging may occur in the action area immediately adjacent to the construction area. Additionally, because the action area is located in saline, tidally influenced waters, no eggs, larvae or juvenile Atlantic sturgeon will be present. Lastly, the action area does not contain any known overwintering areas; thus, sub-adult and adult Atlantic sturgeon are most likely to be present in the action area from April through November.

Effects of the Action

Sea turtles are not likely to occur in the project area except possibly as occasional seasonal transient individuals, and their presence in shallow waters adjacent to the shoreline such as the project area is unlikely. There is no nesting activity in the region, and the turtles are not year-round residents. Adverse impacts to sea turtles are not anticipated as a result of the project.

Sturgeon are not likely to be present in the intertidal and shallow water depths within the project area. Seasonal transient sub-adults and adults are highly mobile and could easily avoid the project area during construction. Adverse impacts to sturgeon are not anticipated as a result of project activities.

Sound

Approximately 138 new 12-inch diameter timber piles to be installed using an impact hammer along the replacement bulkhead and vibratory hammer will be utilized to facilitate the installation of new vinyl sheeting. **Vibratory hammer data not available.** Impact pile driving produces pulse type sounds, while vibratory pile installation produces a more continuous type of sound. An impact hammer was used to sound calculations which would be conservative, more sound than a vibratory hammer (https://www.navymarinespeciesmonitoring.us/files/4814/9089/8563/Pile-driving_Noise_Measurements_Final_Report_12Jan2017.pdf and https://www.nrc.gov/docs/ML1225/ML12250A723.pdf). The estimated noise at the source and distance to relevant thresholds for species in the action area was determined based on the NMFS Greater Atlantic Regional Fisheries Office (GARFO) Acoustic Tool spreadsheet (version updated 11/30/2016).

The estimated sound levels and distances to species injury and behavioral thresholds associated with the proposed action are presented in the attached tables.

TABLE 1:
Proxy Projects for Estimating Underwater Noise

Project Location	**Water Depth (m)**	**Pile Size (inches)**	**Pile Type**	**Hammer Type**	**Attenuation rate (dB/10m)**
Benicia, CA (source of data)	10.7	16-20"	Timber	Impact	5
Not Available - likely an average of several measurements taken for 96" CISS steel piles.	10	13"	Plastic	Impact	5

TABLE 2:
Proxy-Based Estimates for Underwater Noise

Type of Pile	**Hammer Type**	**Estimated Peak Noise Level (dB_{Peak})**	**Estimated Pressure Level (dB_{RMS})**	**Estimated Single Strike Sound Exposure Level (dB_{sSEL})**
16-20" Timber	Impact	170	165	148
13" Plastic	Impact	177	153	152

TABLE 3:

Estimated Distances to Sturgeon/Salmon Injury and Behavioral Thresholds

Type of Pile	**Hammer Type**	**Distance (m) to 206dB$_{Peak}$ (injury)**	**Distance (m) to sSEL of 150 dB (surrogate for 187 dBcSEL injury)**	**Distance (m) to Behavioral Disturbance Threshold (150 dB$_{RMS}$)**
16-20" Timber	Impact	NA	NA	40.0
13" Plastic	Impact	NA	14.0	16.0

TABLE 4

Estimated Distances to Sea Turtle Injury and Behavioral Thresholds

Type Pile	**Hammer Type**	**Distance (m) to 180 dB RMS (injury)**	**Distance (m) to 166 dBRMS (behavior)**
16-20" Timber	Impact	NA	NA
13" Plastic	Impact	NA	NA

The estimated noise generated from the proposed activity remains below the injury thresholds for Atlantic and shortnose sturgeon. However, the activity may result in behavioral modification in sturgeon up to 40 m (131 feet) from the noise source. It is expected that underwater sound pressure levels would be below 153 and 165 dBRMS at distances beyond approximately 40 meters from the pile being installed. Should sturgeon move into the action area where the 153 to 165 dBRMs isopleth extends, it is reasonable to assume that a sturgeon, upon detecting underwater pressure levels of 153 to 165 dBRMS, would modify its behavior such that it redirects its course of movement away from the ensonified area and therefore, away from the action area. If any movements away from the ensonified area do occur, it is extremely unlikely that these movements would affect essential sturgeon behaviors (e.g., spawning, foraging, resting, and migration), as the waterway is sufficiently large enough to allow sturgeon to avoid the ensonified area while continuing to forage and migrate. Given the small distance a sturgeon would need to move to avoid the disturbing levels of pressure, any effects would not be able to be meaningfully measured or detected.

Pile driving activities would be localized and temporary. It is likely that if present in the vicinity of the action area during construction, any sturgeon would swim away and avoid the noise disturbance. An adequate zone of passage within Middle Bay and canals would maintained within the vicinity of the action area. The turbidity barrier would be place, preventing sturgeon from entering the immediate area of the pile drive. Based on this information, the effect of sound from pile driving activities on the Atlantic sturgeon or shortnose sturgeon and would be insignificant and discountable.

Conclusions

Based on the analysis that all effects of the proposed action will be insignificant and/or discountable, GOSR has determined that the proposed project will have no effect on any listed species or critical habitat under NMFS jurisdiction. The presence of these species in shallow waters adjacent to the shoreline in highly developed channelized areas such as the project area is unlikely. If such a species was present, it would be a transient presence with a limited temporal duration. Impacts to these species are more likely from farfield effects such as increased turbidity (due to sediment disturbance) and noise resulting from the installation of piles. Measures will be implemented to minimize the potential exposure of these species to these stressors including silt curtains, construction at low tide when water is absent from the area, use of wood or vinyl piles (as opposed to steel), use of the smallest diameter piles practicable, and use of vibratory pile drivers. GOSR used the best scientific and commercial data available to complete this analysis. The geographic and temporal scope of the project is minimal, and the immediate vicinity is heavily trafficked. Furthermore, best management practices and restrictions on sedimentation or other water quality impacts are imposed by NYSDEC and USACE permit requirements and conditions.

Additionally, the bulkhead in the area of submerged aquatic vegetation (SAV) will be replaced in kind and will therefore, have no impacts to the existing SAV, if any, in the area..

Attachments:

Attachment 1 – Project Location Maps
Attachment 2 – Design Plans
Attachment 3 – Submerged Aquatic Vegetation Map
Attachment 4 – Map of Estimated Range of Sea Turtles
Attachment 5 – Map of Estimated Range of Atlantic Sturgeon Distinct Population Segments

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Attachment 1 – Project Location Maps

TOWN OF HEMPSTEAD
DEPARTMENT OF ENGINEERING
NASSAU COUNTY, NEW YORK

CONTRACT DRAWINGS FOR

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.
OCTOBER 2018

SCALE: 1" = 800'

LOCATION PLAN

SHADED AREA INDICATES CONTRACT LIMITS

NASSAU COUNTY FILE NO.

NASSAU COUNTY APPROVALS

WARNING - It is a violation of the Education Law for any person, unless acting under the direction of a licensed professional engineer, to alter any item on these plans in any way.

P.W. #

New York Rising Community Reconstruction Program

GOSR
Governor's Office of Storm Recovery

APPROVED BY

DOUGLAS L. TUMAN, P.E., ESQ.
COMMISSIONER OF ENGINEERING

DATE

DANIEL LINO
COMMISSIONER OF PARKS & RECREATION

DATE

SUBMITTED FOR APPROVAL BY

JEFFREY M. TIERNEY
DEPUTY COMMISSIONER OF ENGINEERING

DATE

BASE MAP LEGEND

MANHOLES
- STORM DRAIN
- ELECTRIC
- GAS
- SANITARY SEWER
- SANITARY SEWER CLEANOUT
- TRAFFIC
- TELEPHONE
- UNKNOWN
- WATER

CATCH BASIN INLETS
- COMB.CURB INLET & GRATE
- CURB INLET
- DOUBLE CURB INLET
- FLUSH GRATE
- ROUND GRATE

UTILITIES
- STORM DRAINAGE PIPE — 18" DRAIN
- ELECTRIC — E
- GAS MAIN — 4"G
- SANITARY SEWER PIPE — 12"S
- TELEPHONE — T
- TRAFFIC — TR
- WATER — 8"W

UTILITY PAINT
- ELECTRIC — EL
- ELECTRIC OFFSET — EL 2
- GAS — GM
- GAS OFFSET — GM 2
- GAS SERVICE — G S
- SEWER HOUSE CONNECTION — SHC
- TELEPHONE — TEL
- TELEPHONE OFFSET — T 2
- WATER — WM
- WATER SERVICE — W S
- WATER OFFSET — WM 2

UTILITY HARDWARE
- ELECTRIC VAULT — E
- GAS MAIN VALVE
- GAS SERVICE VALVE
- GAS VENT — G
- HYDRANT
- HYDRANT VALVE
- OIL FILLER VALVE — FV
- SANITARY SEWER VENT — S
- TRAFFIC DETECTOR
- TRAFFIC LOOP
- UNIDENTIFIED VAULT — V
- UNKNOWN VALVE
- WATER MAIN VALVE
- WATER METER — M
- WATER SERVICE VALVE

UTILITY POLES
- METAL POLE WITH LIGHT
- METAL POLE WITH TRAFFIC
- PEDESTRIAN STANCHION
- WOODEN UTILITY POLE
- WOODEN UTILITY POLE WITH LIGHT

VEGETATION
- BUSH
- 4' HIGH HEDGE — 4' HEDGE
- 15" DIA. DECIDUOUS TREE — 15"
- EVERGREEN

- GUARD RAIL
- METAL FENCE
- RETAINING WALL
- WOODEN FENC
- VINYL FENCE

BASE MAP LEGEND

MISCELLANEOUS
- BASELINE & STATION — 0+00, 1+00
- BASKETBALL BACKBOARD POST — BB
- CELLAR DOOR — CE
- COLUMN
- CURB
- CURB & GUTTER
- EDGE OF PAVEMENT
- FIRST FLOOR ENTRANCE
- FLAGPOLE — FP
- GARAGE ENTRANCE
- GUARDPOST — GP
- GUYWIRE & ANCHOR
- HANDICAP RAMP
- LOT LINE
- MAILBOX — MB
- MONUMENT
- PARKING METER
- POLICE BOX — P
- PROPERTY LINE
- ROOF DRAIN — RD
- ROADWAY CENTERLINE
- SIGN - SINGLE POST
- SIGN - DOUBLE POST
- TELEPHONE BOOTH — TB
- TEST HOLE

ABBREVIATIONS

ABAND.	ABANDONED
ALUM	ALUMINUM
A.O.B.E.	AS ORDERED BY ENGINEER
APT.	APARTMENT
ASPH.	ASPHALT
BOP	BEGINNING OF PROFILE
B. BLK	BELGIAN BLOCK
B.C.	BOTTOM OF CURB
B.T.	BLACKTOP
BIT	BITUMINOUS
BLK	BLOCK
B.M.	BENCH MARK
BRK	BRICK
B.W.	BACK OF SIDEWALK
CB	CATCH BASIN
CL	CENTERLINE OF ROADWAY
CONC.	CONCRETE
CH. LK. FE.	CHAIN LINK FENCE
D.I.C.B.	DOUBLE INLET CATCH BASIN
DILAP.	DILAPIDATED
(E)	EAST
EL	ELEVATION
EOP	EDGE OF PAVEMENT
EXIST.	EXISTING
FF7.25	FIRST FLOOR ELEVATION
FR	FRAME
F.W.	FRONT OF SIDEWALK
G	GUTTER
GF18.30	GARAGE FLOOR ELEVATION
H.C.R.	HANDICAP RAMP
HP 5.90C	HIGH POINT ELEVATION AT CURB
H.D.P.E.	HIGH DENSITY POLYETHELENE PIPE
INV. = 7.00	INVERT ELEVATION
L.	LEFT
L/C	LEFT CURB
MH	MANHOLE
MID C.L.	MIDCENTERLINE OF ROADWAY
(N)	NORTH
N.I.C.	NOT IN CONTRACT
PC	POINT OF CURVATURE
RAIL FE.	POST AND RAIL FENCE
#107	RESIDENCE NO. 107
RCP	REINFORCED CONCRETE PIPE
R.	RIGHT
R/C	RIGHT CURB
R=32.65	RIM ELEVATION OF MANHOLE
S.I.C.B.	SINGLE INLET CATCH BASIN
SSHC	SANITARY SEWER HOUSE CONNECTION
SLT.	SLATE
(S)	SOUTH
STA	STATION
STOCK FE.	STOCKADE FENCE
STY	STORY
T.B.M.	TEMPORARY BENCH MARK
T.C.	TOP OF CURB
TH #3	TEST HOLE
THEO.	THEORETICAL
TTC	THEORETICAL TOP OF CURB
TYP.	TYPICAL
U.G.	UNDERGROUND
VAC.	VACANT
VPI	VERTICAL POINT OF INTERSECTION
(W)	WEST
WD	WOOD

DRAWING INDEX

SHEET NUMBER	SHEET TITLE
1	TITLE SHEET
2	LEGENDS, ABBREVIATIONS, NOTES, AND DRAWING INDEX DIAGRAM
3	EXISTING CONDITIONS
4	CONSTRUCTION PLAN
5	CONSTRUCTION PLAN
6	LIVING SHORELINE DETAIL
7	BULKHEAD DETAIL
8	-
9	-

NO.	DATE	REVISIONS

In Charge:	D.L.T.
Compilation:	J.M.T.
Design:	J.M.T.
Drawn:	J.M.T./D.R.R.
Checked:	J.M.T.
Reviewed:	D.L.T.

TOWN OF HEMPSTEAD, N.Y. — FOUNDED 1644

Department of Engineering

LEGENDS, ABBREVIATIONS, NOTES AND COMPREHENSIVE DRAINAGE PLAN

SHORELINE STABILIZATION
BALDWIN PARK
BALDWIN, N.Y.

Scale:

Date: OCT 2018

File No.:

Dwg No.:

Sheet No.: 2 of -

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TOWN OF HEMPSTEAD, N.Y. FOUNDED 1644

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EXISTING CONDITIONS

SHORELINE STABILIZATION
BALDWIN PARK
BALDWIN, N.Y.

Scale: 1" = 80'

Date: OCT 2018

File No.:

Dwg No.:

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CONSTRUCTION PLAN

SHORELINE STABILIZATION
BALDWIN PARK
BALDWIN, N.Y.

Scale: 1" = 40'

Date: OCT 2018

File No.:

Dwg No.:

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Department of Engineering

CONSTRUCTION PLAN

SHORELINE STABILIZATION
BALDWIN PARK
BALDWIN, N.Y.

Scale:	1" = 40'
Date:	OCT 2018
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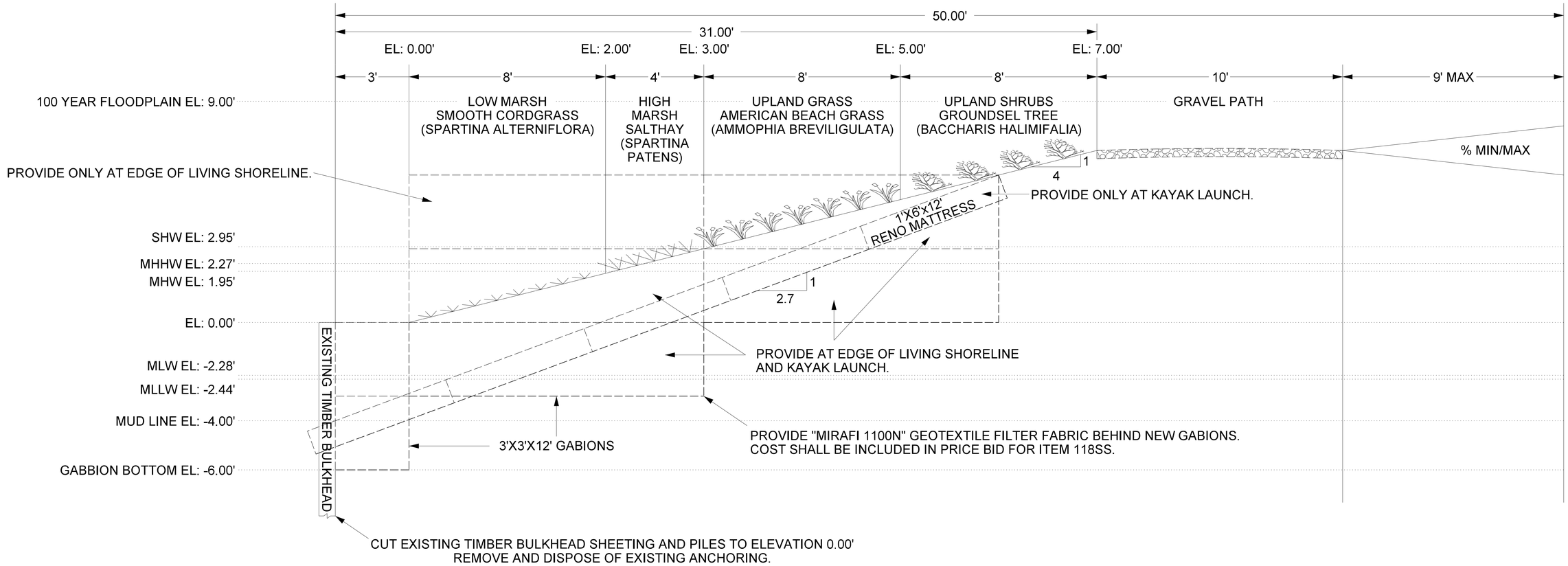
Sheet No.:	5 of -



PLANTING SPECIFICATIONS

LOW MARSH:
- Smooth Cordgrass (Spartina Alteriflora)
  - All plants to be Nursery Grown in 2" Peat pots, planted on 18" centers. Stagger rows.

HIGH MARSH:
- Saltmeadow Cordgrass (Spartina Patens)
  - All plants to be Nursery Grown in 2" Peat pots, planted on 18" centers. Stagger rows.

UPLAND GRASS:
- American Beachgrass (Ammonphila Breviligulata)
  - Install on 18" centers. 3 culms/planting unit. Stagger rows.
  - Fertilize in early spring. 30lbs inorganic nitrogen/acre.

UPLAND SHRUBS:
- Groudsel Tree (Baccharis Hamlimifolia)
  - All plants to be Nursery Grown, 2 Gallon Minimum. Install on 6' centers.
  - Fertilize with 1 tablespoon of Osmocote 18-6-12 per planting hole.

NOTE:
- Smooth Cordgrass plantings to be installed prior to Saltmeadow Cordgrass plantings to prevent disturbence.
- Saltmeadow Cordgrass plantings to be installed prior to upland plantings to prevent disturbence.
- All plant installation and seeding to occur between March 15 and May 15 or September 15 to October 15.

NO.	DATE	REVISIONS

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Reviewed:	D.L.T.

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LIVING SHORELINE DETAILS

SHORELINE STABILIZATION
BALDWIN PARK
BALDWIN, N.Y.

Scale: NONE
Date: OCT 2018
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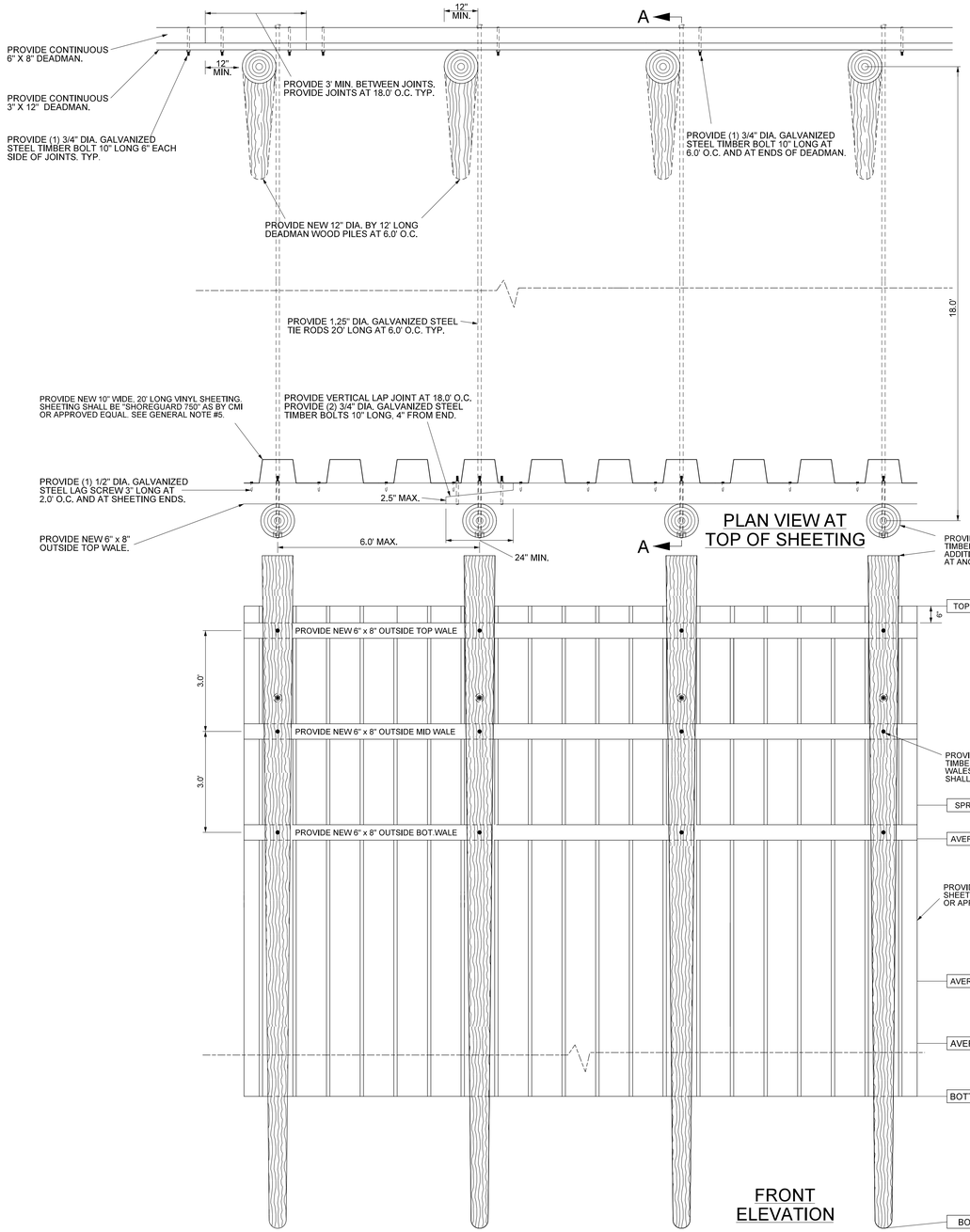
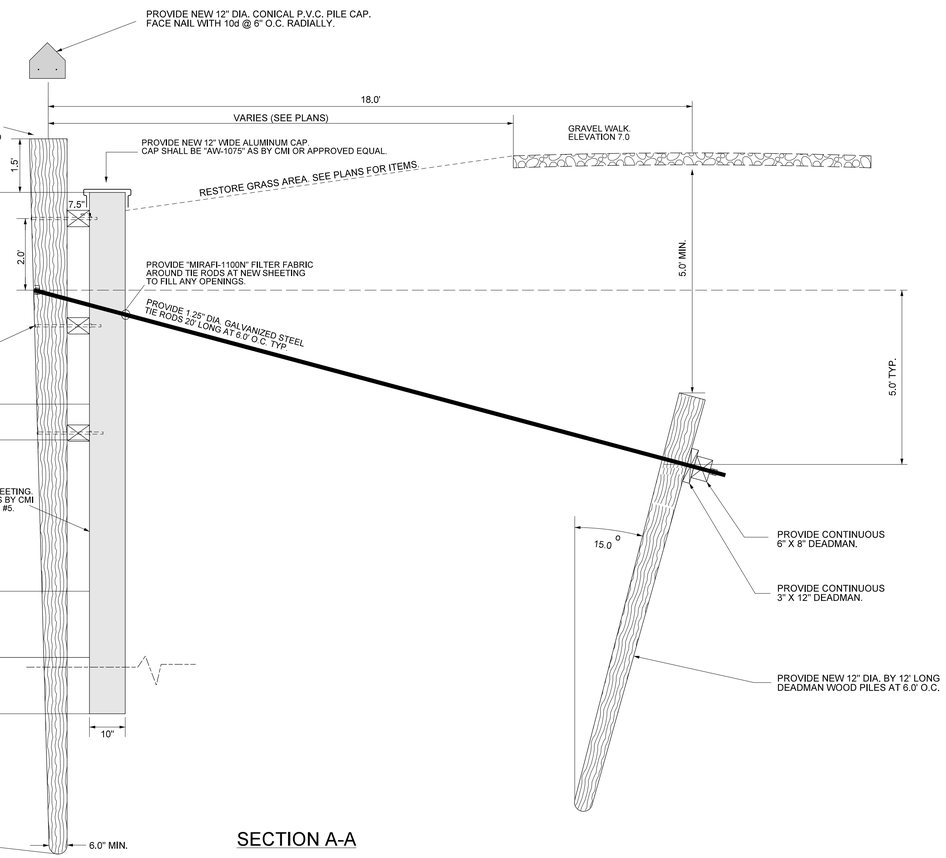


ITEM 204X GENERAL NOTES:

1. ALL LUMBER AND TIMBER SIZES INDICATED ARE NOMINAL. ALL DIMENSIONS INDICATED ARE FINISHED.
2. ALL LUMBER AND TIMBER SHALL BE CCA AND PRESSURE TREATED TO OBTAIN A MINIMUM RETENTION OF 2.5 LBS/CF.
3. NEW RETURNS AND CONNECTIONS TO EXISTING BULKHEADS AT LIMITS OF NEW BULKHEAD SHALL BE DETERMINED IN FIELD A.O.B.E.
4. EXISTING BULKHEADS AND EXISTING BULKHEAD ANCHORING COMPONENTS SHALL BE COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 204X.
5. SEE PLANS FOR NEW TOP OF SHEETING ELEVATIONS, NEW SHEETING LENGTHS AND NEW PILE LENGTHS.
6. ALL TIMBER AND CARRIAGE BOLTS SHALL BE PROVIDED WITH ONE N.Y.D.D.WASHER AND NUT AT END.
7. ALL LAG SCREWS SHALL BE PROVIDED WITH ONE N.Y.D.D.WASHER AT HEAD END.
8. ALL TIE RODS SHALL BE PROVIDED WITH TWO N.Y.D.D.WASHERS AND NUTS AT EACH END.
9. ALL BOLTS AND TIE RODS SHALL BE CUT FLUSH AT NUT END WHERE SHOWN AND WHERE NECESSARY TO INSTALL NEW BULKHEAD COMPONENTS.
10. ALL TIE RODS SHALL BE CUT FLUSH AT FRONT OF PILES. NUTS AND WASHERS SHALL BE COUNTERSUNK.
11. ALL HARDWARE AND FASTENERS SHALL BE GALVANIZED STEEL UNLESS OTHERWISE SHOWN AND MEET N.C.D.P.W SPECIFICATIONS.
12. ALL OPENINGS IN NEW SHEETING FOR TIE RODS SHALL BE LIMITED IN SIZE AS FOLLOWS: THRU WALL DIMENSION PLUS ONE INCH.



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TOWN OF HEMPSTEAD N.Y. FOUNDED 1644

Department of Engineering

BULKHEAD DETAILS

SHORELINE STABILIZATION
BALDWIN PARK
BALDWIN, N.Y.

Scale: NONE

Date: OCT 2018

File No.:

Dwg No.:

Sheet No.: - of -

Attachment 2 – Design Plans

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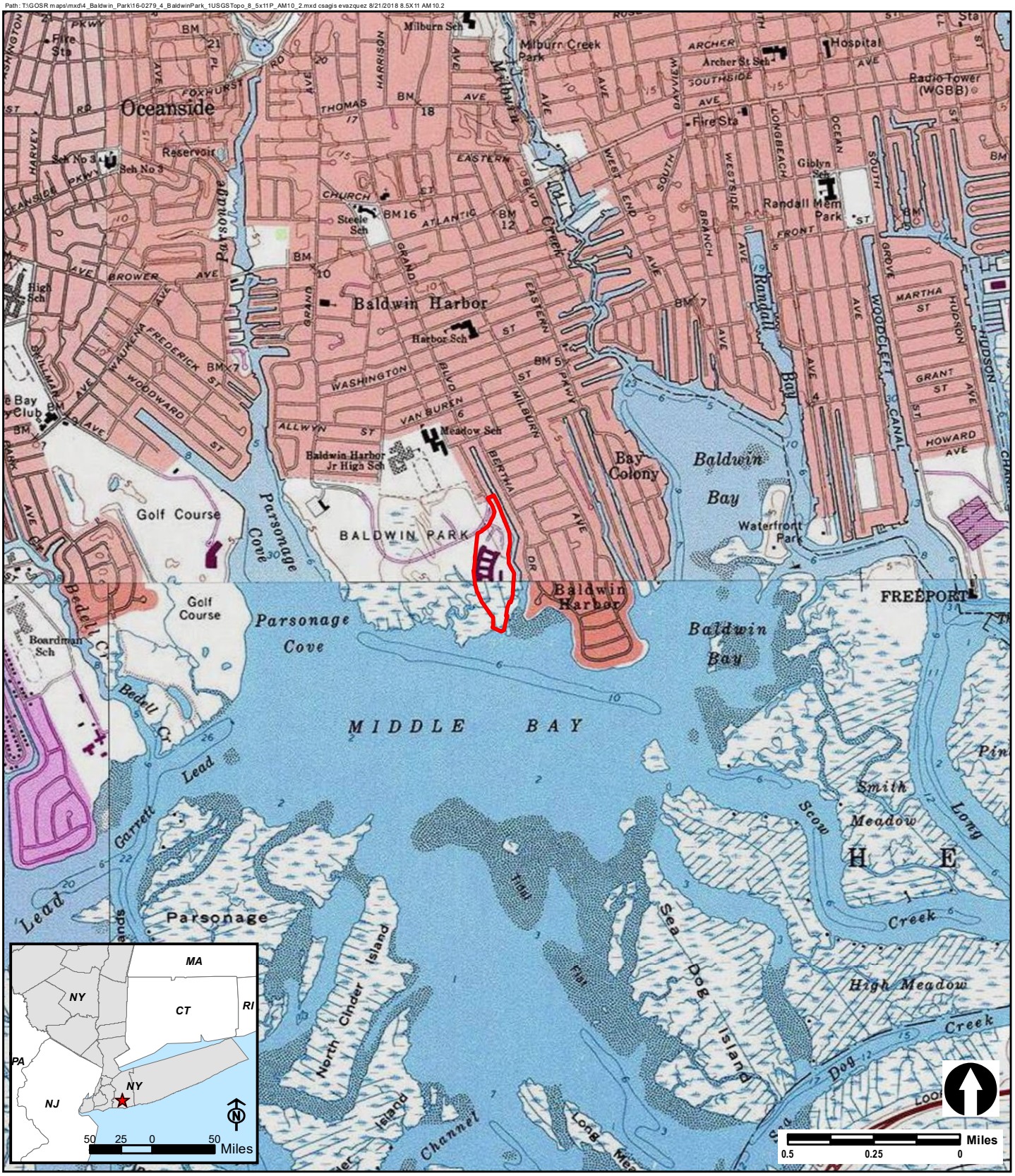

Project Site

Figure 1

USGS Regional Location

Baldwin Park Shoreline Stabilization Project

Hempstead, Nassau County, NY

Source: USGS Topgraphic Map, Far Rockaway Quadrangle
Copyright:© 2013 National Geographic Society, i-cubed
(http://server.arcgisonline.com/ArcGIS/rest/services/
USA_Topo_Maps/MapServer)

CSAGROUP EST • 1956

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Project Site
Living Shoreline
Bulkhead

Figure 2

Project Area

Baldwin Park Shoreline Stabilization Project

Hempstead, Nassau County, NY

Source: New York State Department of Transportation, 2013;
ESRI World Imagery

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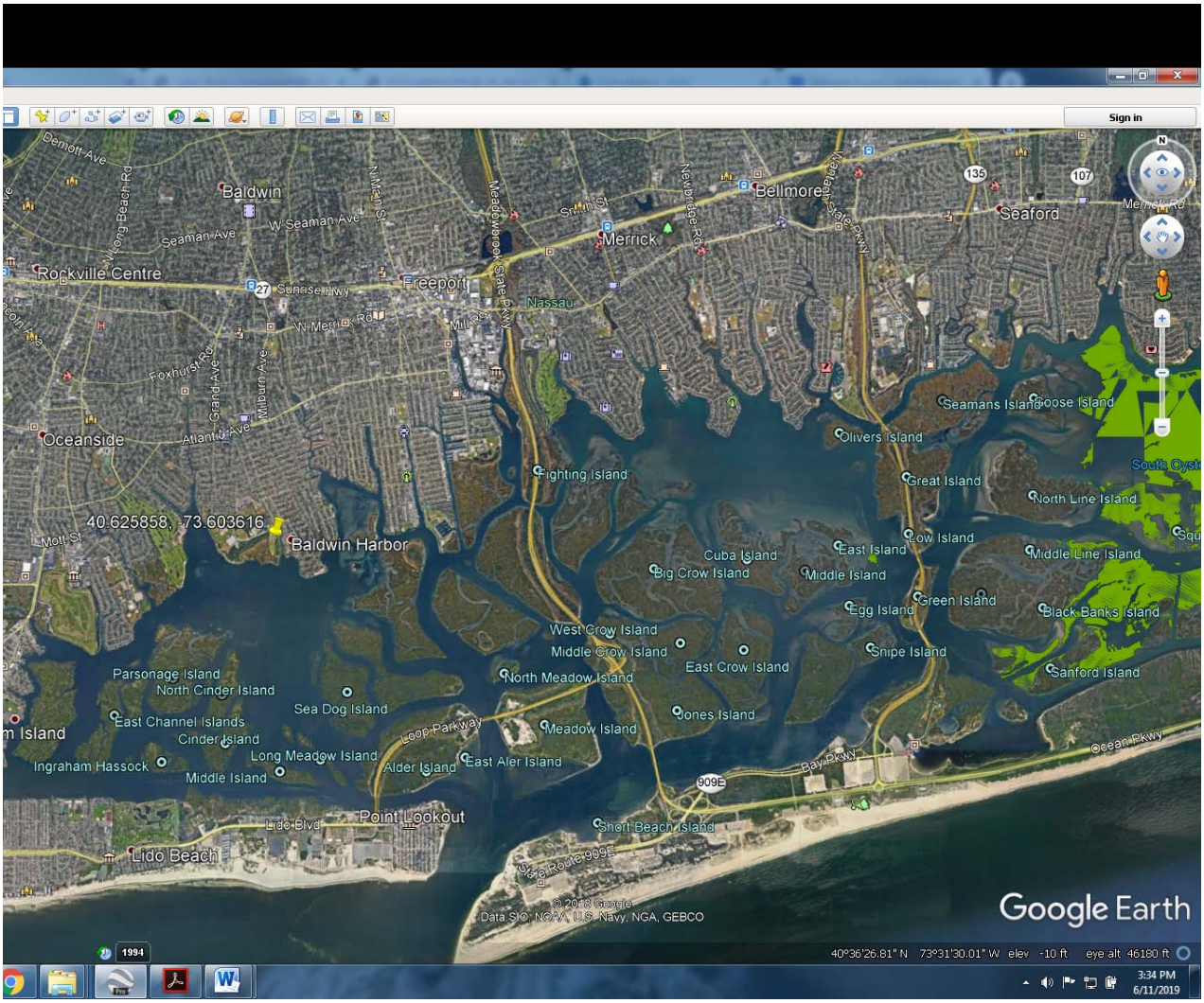
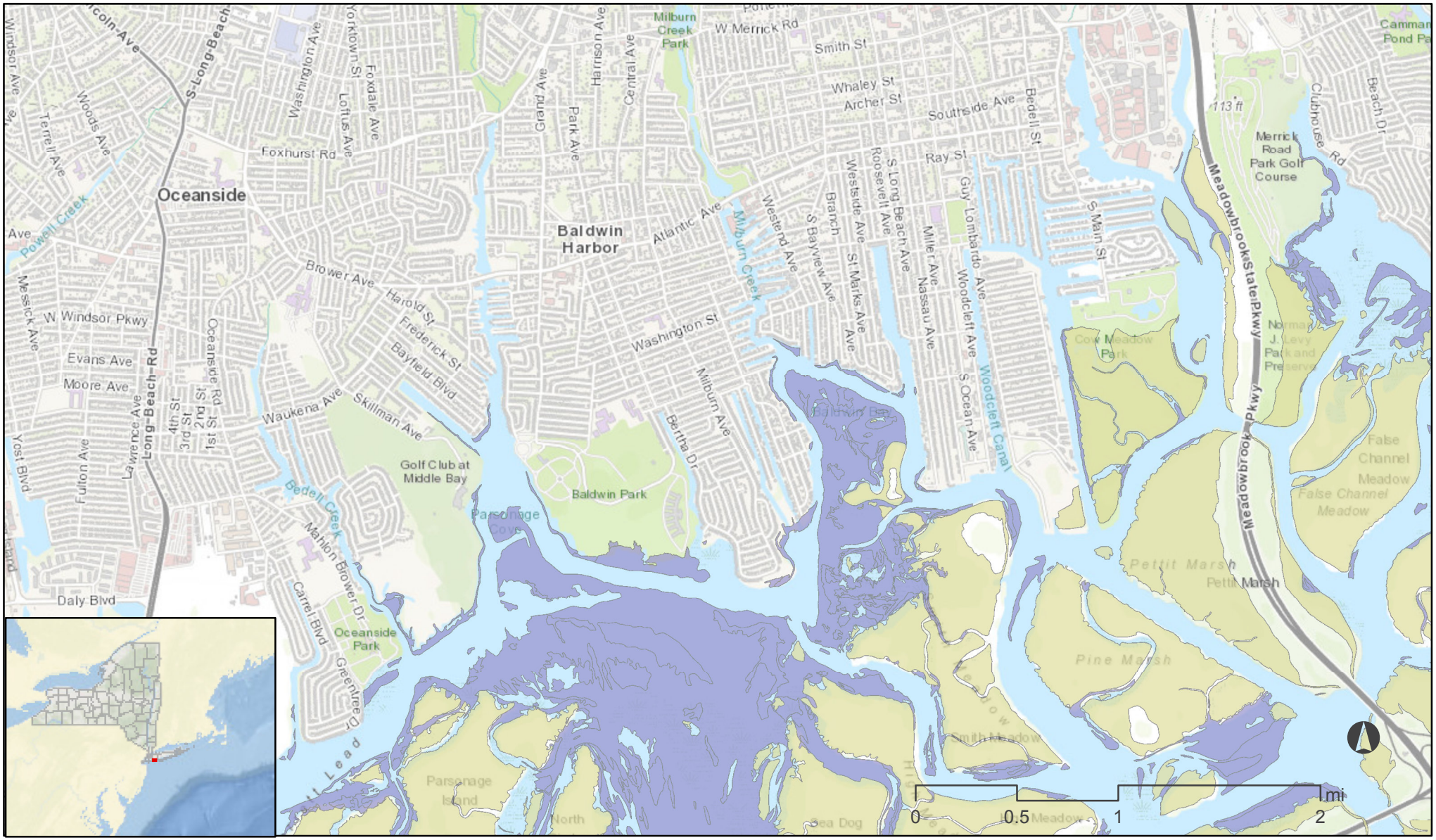
Attachment 3 – Submerged Aquatic Vegetation Map


Sign in
Baldwin
Rockville Centre
Freeport
Merrick
Bellmore
Seaford
Oceanside
Baldwin Harbor
40.625858, -73.603616
Seamans Island
Goose Island
Olivers Island
Fighting Island
Great Island
North Line Island
Low Island
East Island
Middle Line Island
Cuba Island
Big Crow Island
Middle Island
Egg Island
Green Island
Black Banks Island
West Crow Island
Middle Crow Island
East Crow Island
Snipe Island
Sanford Island
Parsonage Island
North Cinder Island
North Meadow Island
Sea Dog Island
East Channel Islands
Cinder Island
Jones Island
Meadow Island
Long Meadow Island
Alder Island
East Aler Island
Ingraham Hassock
Middle Island
Point Lookout
Short Beach Island
Lido Beach
Loop Parkway
Bay Pkwy
Ocean Pkwy
Nassau
Google Earth

Baldwin Park



Aquatic Vascular Vegetation

Benthic Macroalgae

Emergent Tidal Marsh

Mollusk Reef Biota

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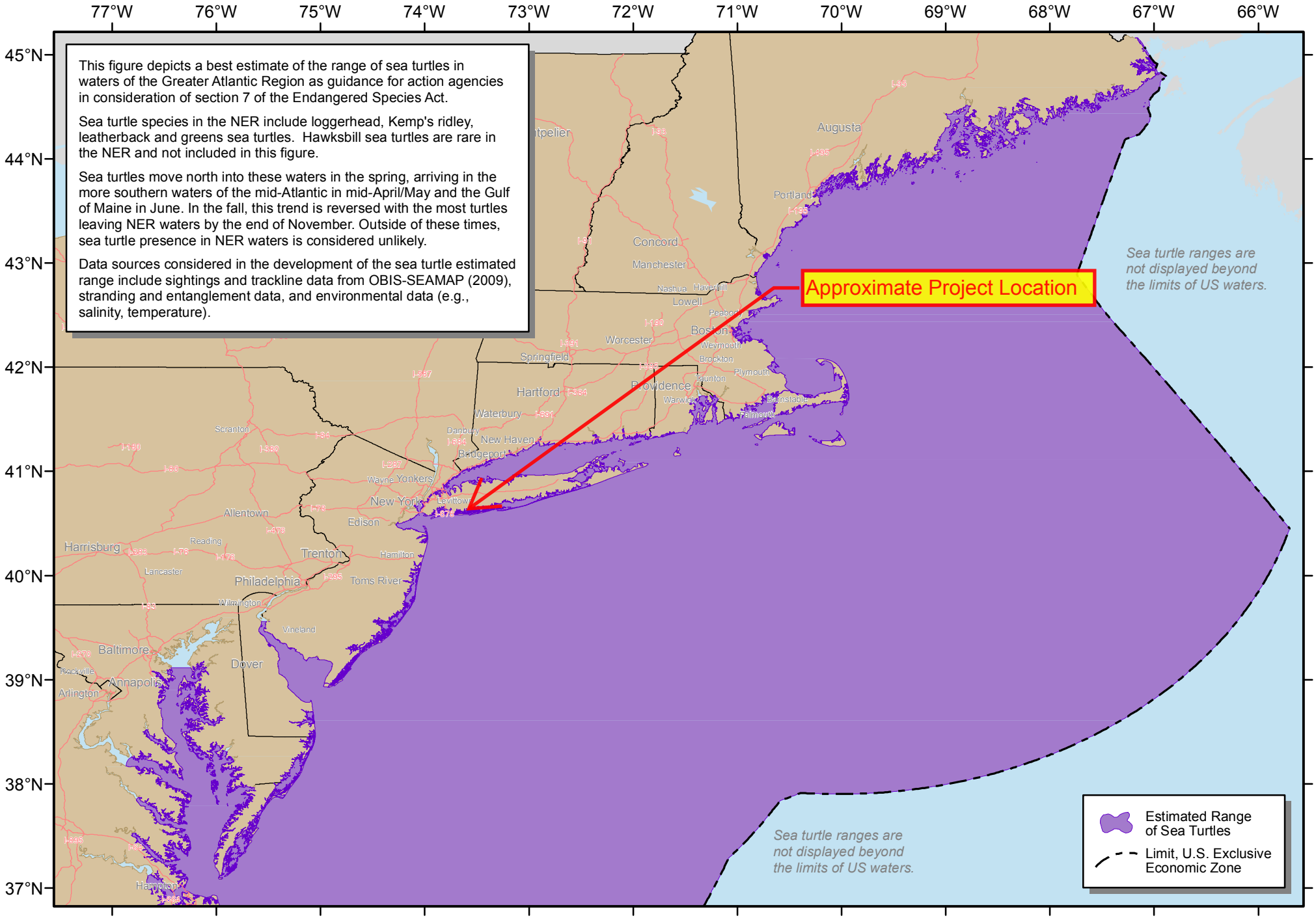
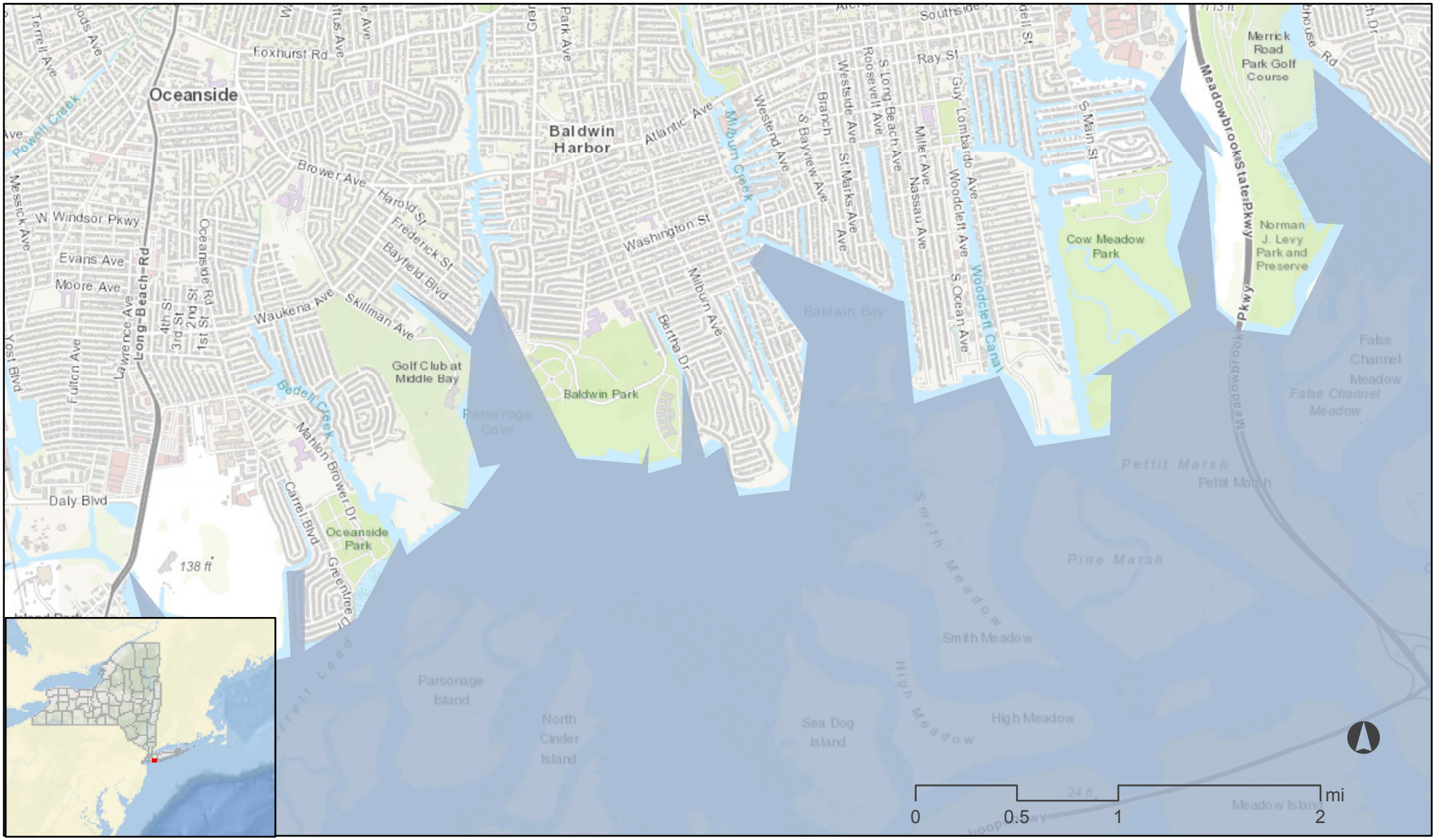
Attachment 4 – Map of Estimated Range of Sea Turtles

Estimated Range of Sea Turtles



Green Sea Turtle



No Sightings

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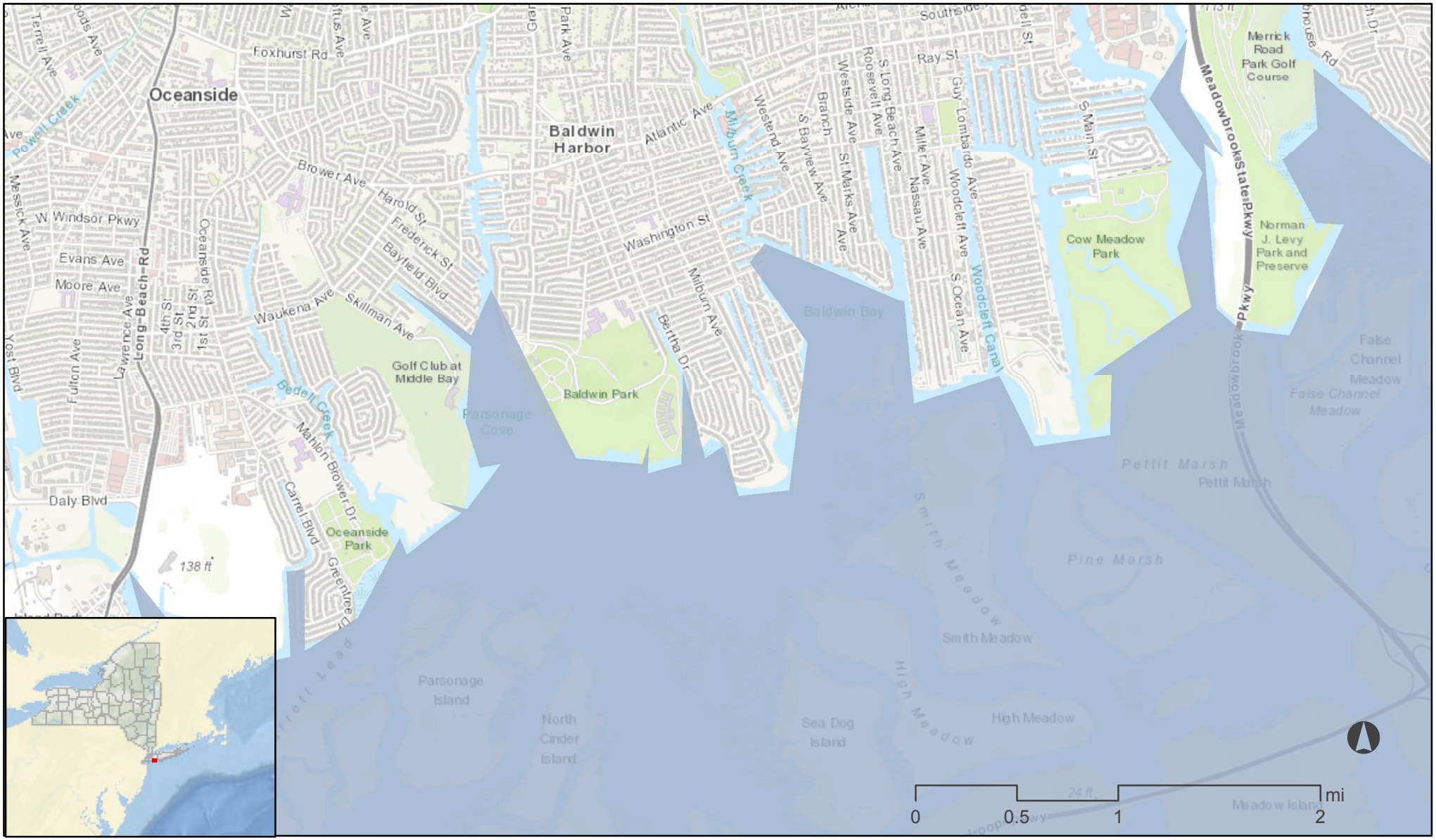
Leather Back Sea Turtle



No Sightings | <1 | 1-10 | 10-100 | >100

NEW YORK STATE OF OPPORTUNITY. Department of State

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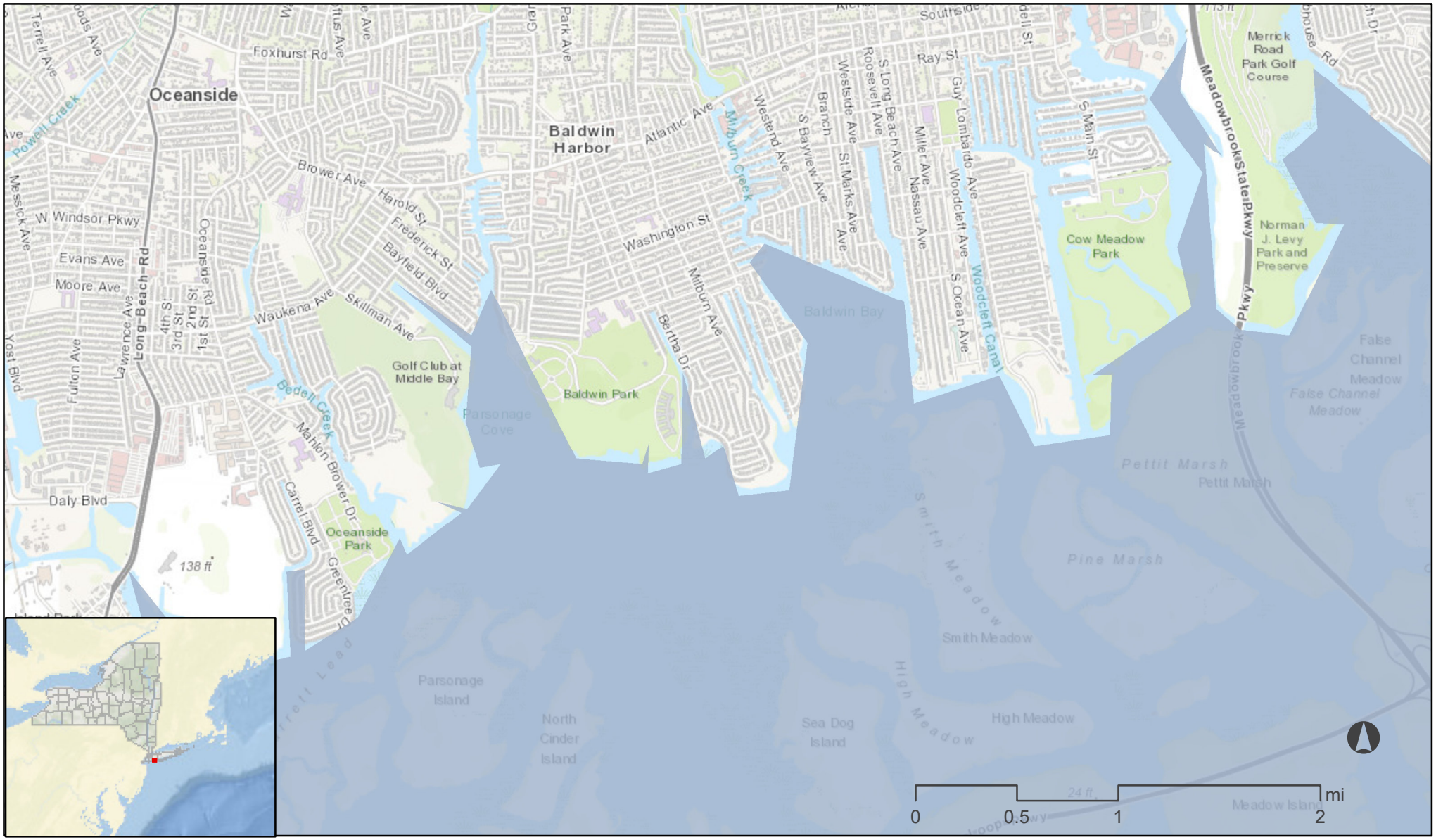
Loggerhead



No Sightings | <1 | 1-10 | 10-100 | >100

NEW YORK STATE OF OPPORTUNITY. Department of State

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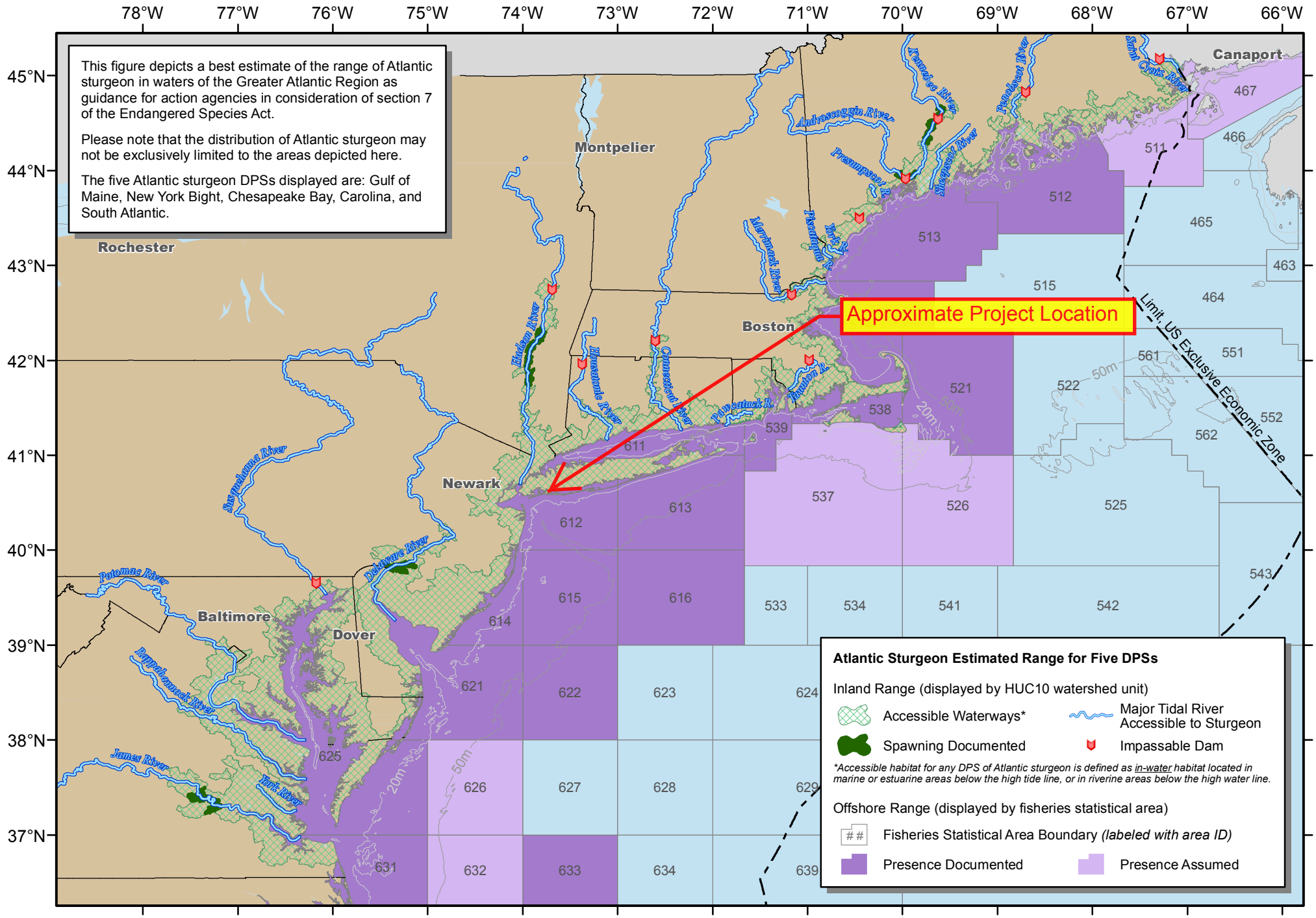
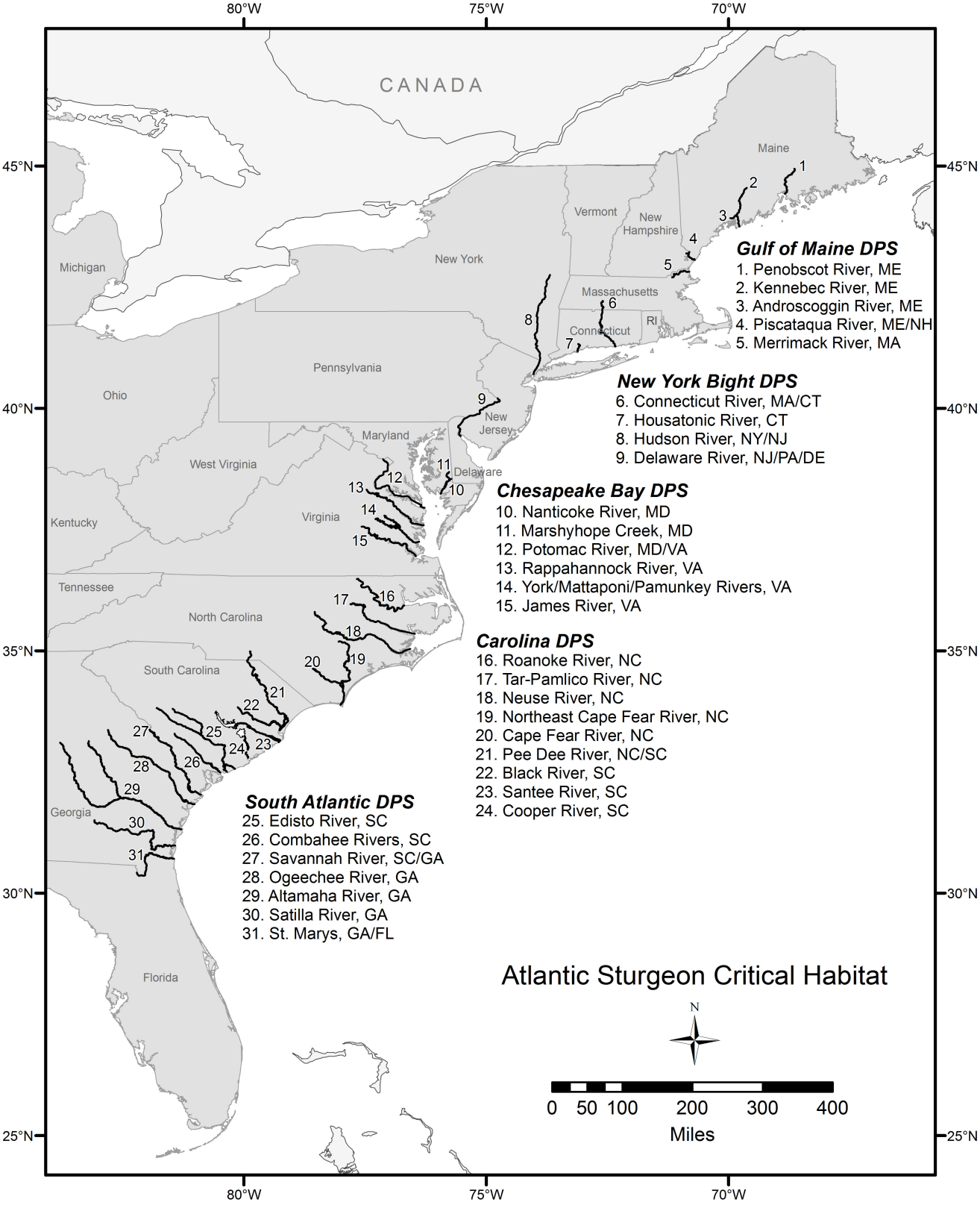
Attachment 5 – Map of Estimated Range of Atlantic Sturgeon Distinct Population Segments

Estimated Range of Atlantic Sturgeon Distinct Population Segments (DPSs)




80°W
75°W
70°W
45°N
40°N
35°N
30°N
25°N
CANADA
Maine
Vermont
New Hampshire
New York
Michigan
Massachusetts
RI
Connecticut
Pennsylvania
Ohio
New Jersey
Maryland
Delaware
West Virginia
Virginia
Kentucky
Tennessee
North Carolina
South Carolina
Georgia
Florida
Gulf of Maine DPS
1. Penobscot River, ME
2. Kennebec River, ME
3. Androscoggin River, ME
4. Piscataqua River, ME/NH
5. Merrimack River, MA
New York Bight DPS
6. Connecticut River, MA/CT
7. Housatonic River, CT
8. Hudson River, NY/NJ
9. Delaware River, NJ/PA/DE
Chesapeake Bay DPS
10. Nanticoke River, MD
11. Marshyhope Creek, MD
12. Potomac River, MD/VA
13. Rappahannock River, VA
14. York/Mattaponi/Pamunkey Rivers, VA
15. James River, VA
Carolina DPS
16. Roanoke River, NC
17. Tar-Pamlico River, NC
18. Neuse River, NC
19. Northeast Cape Fear River, NC
20. Cape Fear River, NC
21. Pee Dee River, NC/SC
22. Black River, SC
23. Santee River, SC
24. Cooper River, SC
South Atlantic DPS
25. Edisto River, SC
26. Combahee Rivers, SC
27. Savannah River, SC/GA
28. Ogeechee River, GA
29. Altamaha River, GA
30. Satilla River, GA
31. St. Marys, GA/FL
Atlantic Sturgeon Critical Habitat
N
0 50 100 200 300 400
Miles

Governor's Office of Storm Recovery

ANDREW M. CUOMO
Governor

February 25, 2019

U.S. Fish and Wildlife Service
Long Island Ecological Services Field Office
340 Smith Road
Shirley, NY 11967-2258

Re: Interagency CBRA Consultations
Baldwin Park Shoreline Stabilization
Town of Hempstead, Nassau County, NY

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 Baldwin Park Shoreline Stabilization Project located within Section 54, Block H, Lot 391, a 14.6-acre parcel formerly occupied by a Board of Cooperative Education Services (BOCES) Facility (**see Attachment A, Figure 1 and Figure 2**). The purpose of this letter is to provide the U.S. Fish and Wildlife Service – Long Island Ecological Services Field Office (USFWS), with evidence that the proposed project or action meets an exception under the CBRA as documented in the attached Inter-agency CBRA Consultation Template. With consultation, GOSR on the behalf of HUD fulfills the CBRA's consultation requirement

The former BOCES development consisted of a school building, roadways, parking, and associated infrastructure including sewage, stormwater, and electric. The school was demolished in the late 1980's when the lease expired and BOCES moved its facility to a different location. The Proposed Action is needed to repair and replace the existing deteriorating bulkhead and to protect community assets and nearby residences from the effects of future tidal/storm surge and further erosion.

Project Description

The Proposed Project would include:

- Removal of 1,600 linear feet of existing and compromised timber bulkhead to be replaced by a living shoreline. The living shoreline would consist of an armored toe stabilization set at the mean highwater line designed with large revetment stones protecting a stone core. The living shoreline will make the shoreline more resilient while minimizing the number of hard features through use of low and high marsh plantings.
- In-place and in-kind replacement of approximately 800 linear feet of existing timber bulkhead; new bulkhead would be set with a top elevation of 5.25, consistent with the existing timber bulkhead elevation.
- Construction of an approximately 0.3-acre gravel parking lot near the northern section of the site.
- Construction of an eight-foot wide gravel pedestrian path.
- Construction of a permanent waterfront landing for non-motorized equipment (canoes and kayaks) for use by the public.

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 – Figures
Attachment B - Template for Interagency CBRA Consultations

Attachment A – Figures

Coastal Barrier Resources System Mapper

U.S Fish & Wildlife Service

ABOUT

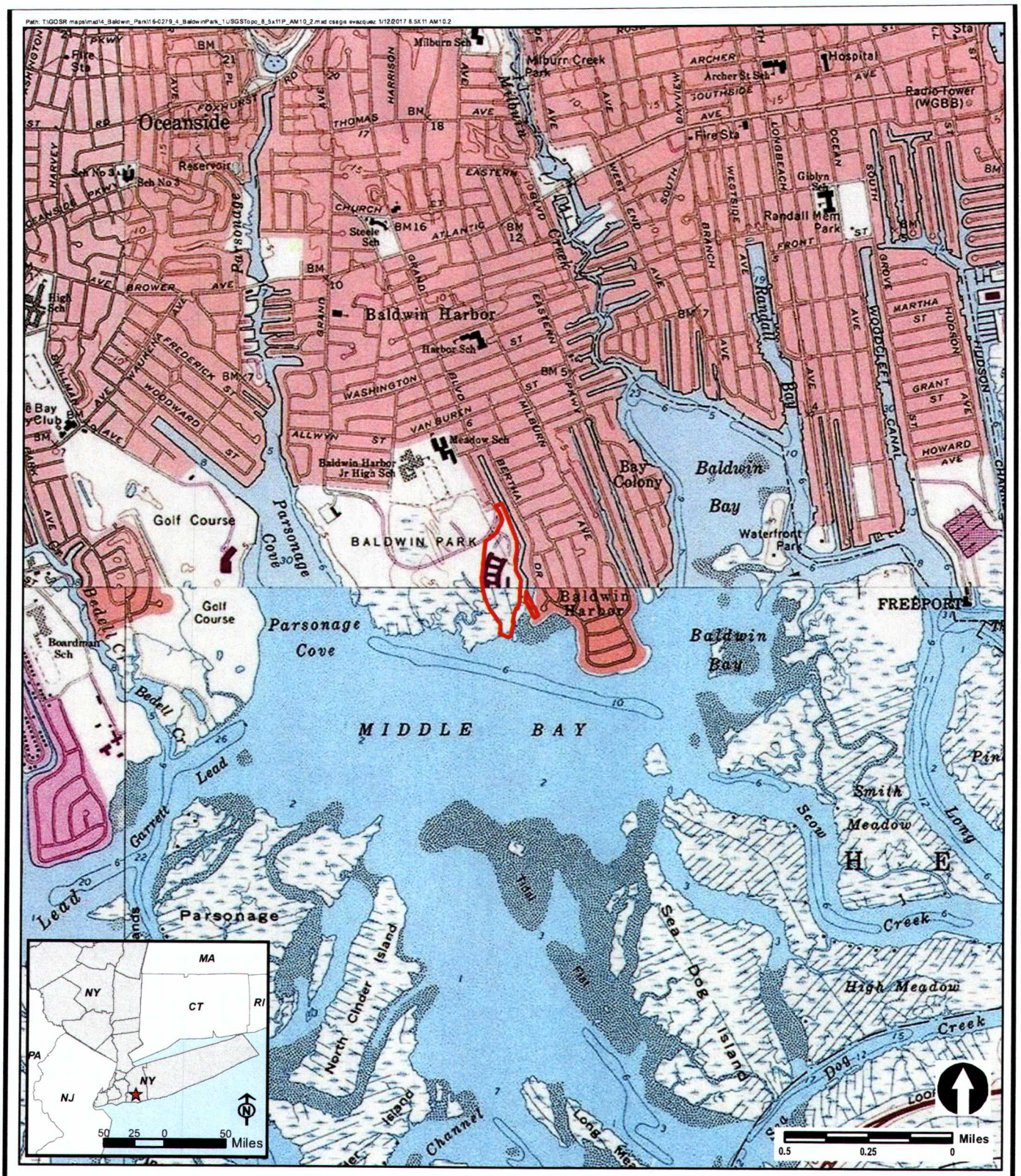
FIND CBRS UNIT

BASEMAPS >

MAP LAYERS >

CBRS Units

Click here to learn more about CBRS Units.



Project Site

Figure 1

USGS Regional Location

Baldwin Park Water Esplanade Project

Hempstead, Nassau County, NY

Source: USGS Topgraphic Map, Far Rockaway Quadrangle
Copyright:© 2013 National Geographic Society, i-cubed
(http://server.arcgisonline.com/ArcGIS/rest/services/
USA_Topo_Maps/MapServer)

CSA Group

Project Site

Figure 2

Project Area

Baldwin Park Water Esplanade Project

Hempstead, Nassau County, NY

Source: New York State Department of Transportation, 2013;
ESRI World Imagery

CSA Group

Attachment B - Template for Interagency CBRA Consultations

TEMPLATE FOR INTERAGENCY CBRA CONSULTATIONS

The Coastal Barrier Resources Act (CBRA) (16 U.S.C. 3501 *et seq.*) encourages the conservation of hurricane prone and biologically rich coastal barriers. No new expenditures or financial assistance may be made available under authority of any Federal law for any purpose within the System Units of the John H. Chafee Coastal Barrier Resources System (CBRS) including: construction or purchase of roads, structures, facilities, or related infrastructure, and most projects to prevent the erosion of or otherwise stabilize any inlet, shoreline, or inshore area. However, the appropriate Federal officer, after consultation with the U.S. Fish and Wildlife Service (Service), may make Federal expenditures and financial assistance available within System Units for activities that meet one of the CBRA's exceptions (16 U.S.C. 3505). The CBRA imposes no restrictions on actions and projects within the CBRS that are carried out with State, local, or private funding. Any response from the Service to a CBRA consultation request is in the form of an opinion only. The Service has not been granted veto power. **The responsibility for complying with the CBRA and the final decision regarding the expenditure of funds for a particular action or project rests with the Federal funding agency.**

There are two types of units within the CBRS, System Units and Otherwise Protected Areas (OPAs). OPAs are denoted with a "P" at the end of the unit number (e.g., "FL-64P"). Most new Federal expenditures and financial assistance, including Federal flood insurance, are prohibited within System Units. The only Federal spending prohibition within OPAs is on Federal flood insurance; other Federal expenditures are permitted. **Consultation with the Service is not needed if the proposed action or project is located within an OPA.** However, agencies providing disaster assistance that is contingent upon a requirement to purchase flood insurance after the fact are advised to disclose the OPA designation and information on the restrictions on Federal flood insurance to the recipient prior to the commitments of funds.

The Service has developed the attached template to help facilitate the CBRA consultation process. This form, and any additional documentation, may be submitted to the appropriate Ecological Services Field Office to fulfill the CBRA's consultation requirement.

Additional Resources:

CBRS Mapper: *https://www.fws.gov/cbra/maps/mapper.html*

CBRS shapefile and Web Map Service: *https://www.fws.gov/cbra/maps/Boundaries.html*

CBRA consultations: *https://www.fws.gov/cbra* under "Project Consultations"

CBRS in/out property determinations: *https://www.fws.gov/cbra/Determinations.html*

Ecological Services Field Office contact information: *https://www.fws.gov/offices*

February 25, 2019

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 l C: (646)256-9485 l F: (212) 480-2393
James.McAllister@stormrecovery.ny.gov

The Governor's Office of Storm Recovery, 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), requests a consultation with the U.S. Fish and Wildlife Service (Service) under the Coastal Barrier Resources Act (CBRA) (16 U.S.C. 3501 *et seq.*) for the proposed Baldwin Park Shoreline Stabilization Project located in the Town of Hempstead, Nassau County, New York.

Project Location

That attached figures show the location of the project in CBRS Unit NY-59, Latitude 40.625858 and Longitude -73.603616.

The action or project is located in Nassau County, NY within Unit NY-59 of the Coastal Barrier Resources System (CBRS).

Description of the Proposed Action or Project

The Town of Hempstead has requested $4,574.332.00 in **CDBG-DR funding** for the shoreline improvements within the Town of Hempstead's Baldwin Park located at 3232 Grand Avenue, Baldwin, New York. The Proposed Project was developed to stabilize the property, provide storm surge protection and to improve and expand recreational use by the public. The Proposed Project site is situated within Section 54, Block H, Lot 391, a 14.6-acre parcel formerly occupied by a Board of Cooperative Education Services (BOCES) Facility (**see Figure 1 and Figure 2**).

The Proposed Project would include:

- Installation of sediment control/surface water protection devices followed by installation of a temporary cofferdam.
- Removal of 1,600 linear feet of existing and compromised timber bulkhead.
- Rough grading to provide for1,600 feet of living shoreline. The living shoreline would consist of an armored toe stabilization set at the mean highwater line designed with large revetment stones protecting a stone core.
- In-place and in-kind replacement of approximately 800 linear feet of existing timber bulkhead with approximately 138 new 12-inch diameter timber piles to be installed using an impact hammer along the replacement bulkhead; a vibratory hammer will be utilized

to facilitate the installation of new vinyl sheeting. The new bulkhead would be set with a top elevation of 5.25, consistent with the existing timber bulkhead elevation.

- Removal of five existing outfalls and associated catch basins.
- Removal of 36 trees in poor condition to be replaced with 63 trees along the shoreline.
- Construction of an approximately 0.3-acre gravel parking lot near the northern section of the site.
- Construction of an eight-foot wide gravel pedestrian path.
- Construction of a permanent waterfront landing for non-motorized equipment (canoes and kayaks) for use by the public.

Applicable Exception(s) under 16 U.S.C. 3505(a)

Identify the appropriate exception(s) for the action or project under the CBRA (16 U.S.C. 3505(a)).

The Proposed Project, and the entire Baldwin Park in which it is located, with its administrative buildings, recreational facilities, roadways and related infrastructure are situated within the Fire Island Unit (NY-59) of the Coastal Barrier Resources System (CBRA). The Fire Island Unit, extends north in this area from the Long Beach and Jones Beach Barrier Islands, encompassing the Baldwin Park property on the Long Island mainland. The CBRA generally prohibits federal financial assistance for actions undertaken within System Units of the Coastal Barrier Resources System (16 U.S.C. § 3504). However, it is GOSR's position that the Proposed Project falls within the CBRA's exception for **"[t]he maintenance, replacement, reconstruction, or repair, but not the expansion, of publicly owned or publicly operated roads, structures, or facilities that are essential links in a larger network or system." (16 U.S.C. § 3505(a)(6)(F)).**

General Exceptions

☐ 16 U.S.C. 3505(a)(1): Any use or facility necessary for the **exploration, extraction, or transportation of energy resources** which can be carried out only on, in, or adjacent to a coastal water area because the use or facility requires access to the coastal water body.

☐ 16 U.S.C. 3505(a)(2): The **maintenance or construction of improvements of existing Federal navigation channels** (including the Intracoastal Waterway) and related structures (such as jetties), including the disposal of dredge materials related to such maintenance or construction. A Federal navigation channel or a related structure is an existing channel or structure, respectively, if it was authorized before the date on which the relevant System unit or portion of the System Unit was included within the CBRS.

☐ 16 U.S.C. 3505(a)(3): The maintenance, replacement, reconstruction, or repair, but not the expansion, of **publicly owned or publicly operated roads, structures, or facilities that are essential links** in a larger network or system.

☐ 16 U.S.C. 3505(a)(4): **Military activities** essential to national security.

☐ 16 U.S.C. 3505(a)(5): The construction, operation, maintenance, and rehabilitation of **Coast Guard facilities** and access thereto.

Specific Exceptions
These exceptions must also be consistent with all three purposes of the CBRA (see "Justification" section below).

☐ 16 U.S.C. 3505(a)(6)(A): **Projects for the study, management, protection, and enhancement of fish and wildlife resources and habitats**, including acquisition of fish and wildlife habitats, and related lands, stabilization projects for fish and wildlife habitats, and recreational projects.

☐ 16 U.S.C. 3505(a)(6)(B): Establishment, operation, and maintenance of **air and water navigation aids** and devices, and for access thereto.

☐ 16 U.S.C. 3505(a)(6)(C): Projects under the **Land and Water Conservation Fund Act** of 1965 (16 U.S.C. 4601-4 through 11) and the **Coastal Zone Management Act** of 1972 (16 U.S.C. 1451 et seq.).

☐ 16 U.S.C. 3505(a)(6)(D): **Scientific research**, including aeronautical, atmospheric, space, geologic, marine, fish and wildlife, and other research, development, andapplications.

☐ 16 U.S.C. 3505(a)(6)(E): Assistance for **emergency actions essential to the saving of lives and the protection of property and the public health and safety**, if such actions are performed pursuant to sections 5170a, 5170b, and 5192 of title 42 **and are limited to actions that are necessary to alleviate the emergency.**

☒ 16 U.S.C. 3505(a)(6)(F): Maintenance, replacement, reconstruction, or repair, but not the expansion (except with respect to United States route 1 in the Florida Keys), of **publicly owned or publicly operated roads, structures, and facilities.**

☐ 16 U.S.C. 3505(a)(6)(G): **Nonstructural projects for shoreline stabilization** that are designed to mimic, enhance, or restore a natural stabilization system.

Justification for Exception(s)
Briefly explain how the proposed action or project meets the exception(s) under the CBRA identified above. ***If the exception(s) cited above is under 16 U.S.C 3505(a)(6), the justification should also include an explanation of how the proposed action or project is consistent with the three purposes of the CBRA****, which are to minimize: (1) the loss of human life; (2) wasteful expenditure of Federal revenues; and (3) damage to fish, wildlife, and other natural resources associated with the coastal barriers by restricting Federal expenditures and financial assistance which have the effect of encouraging development.*

The Proposed Project conforms with the CBRA exception mentioned above because the Proposed Project would involve the **reconstruction-in-kind and in-place** of an existing, deteriorated, shoreline stabilization system serving Baldwin Park. The Proposed Project would not encourage, or provide for, development or

modification of the subject site, which is located on mainland Long Island, north the Long Beach and Jones Beach Barrier Islands. Rather, the Proposed Project is necessary to prevent further deterioration of the Baldwin Park property and to protect surrounding development and waterbodies from the effects of further erosion and sedimentation.

The proposed activity is consistent with the tripartite purpose of the CBRA.

First, activities considered by the Proposed Project are **protective of both human health** and the environment. Improvements to the bulkhead and replacement with a living shoreline that prevent erosion will make Baldwin Park more resistant to storms. Further, the activities undertaken by the State will help prevent the discharge of sediment into the Oakwood Canal, by stabilizing the shoreline with a new bulkhead replacing the existing failing bulkhead. If no action is taken, a subsequent storm event could result in further erosion of Baldwin Park's shoreline and discharge of sediment laden water into the adjacent waterbody. Moreover, the Proposed Project would **not result in the development of buildings** or structures on the barrier island that the CBRA seeks to avoid. In order to maintain the environmental quality of South Oyster Bay and the adjacent Oakwood Canal, the current deteriorated bulkhead must be replaced, and it is the intent of GOSR to ensure that this is accomplished in harmony with the environment, through the less-impactful green infrastructure methods.

Second, federal financial assistance to support these activities **is not a wasteful use of federal resources**; the Proposed Project represents a long-term public investment in a piece of critical infrastructure that is necessary to protect the water quality of South Oyster Bay and Oakwood Canal and the significant habitats contained therein. Investing in the Proposed Project would protect federal investments by mitigating potential risks posed by extreme weather events and the associated increased flooding and sediment discharge that threaten the integrity of the existing shoreline stabilization system. Federal funding would not have the effect of encouraging development of coastal barriers and is not being used for development of commercial, residential or other structures that CBRA construes as wasteful. Rather, federal funding would support the replacement of critical shoreline stabilization at Baldwin Park.

Finally, the Proposed Project would **minimize damage to fish and wildlife by enhancing critical** environmentally-sensitive areas to help achieve the long-term conservation of natural resources. Rather than replacing the deteriorated bulkhead system utilizing traditional methods, the Proposed Project would utilize the creation of a living shoreline which would add over an acre of wetlands. As discussed above, the Proposed Project is not likely to adversely affect threatened or endangered species and will help to preserve the water quality of South Oyster Bay and the Oakwood Canal.

Project implementation would be conditioned upon applicable federal and state permits and would be constructed in accordance with federal and state permit conditions

Contact Information

Include contact information and where the response should be sent.

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 l C: (646)256-9485 l F: (212) 480-2393 l
James.McAllister@stormrecovery.ny.gov

U.S. Fish and Wildlife Service Response

Below is the Service's response to GOSR's request for a consultation under the CBRA for Baldwin Park Shoreline Stabilization Project. This response represents the Service's opinion. **The final decision regarding the expenditure of funds for this action or project rests with the Federal funding agency.** GOSR has fulfilled its obligation to consult with the Service under the CBRA for this particular action or project within the CBRS. Please note that any new commitment of Federal funds associated with this action or project, or change in the project design and/or scope, is subject to the CBRA's consultation requirement.

The Service has reviewed the information provided by GOSR, and believes the referenced action/project is:

- [ ] Not located within a System Unit of the CBRS and the CBRA does not apply (except with respect to the restrictions on Federal flood insurance)
- [ ] Located within a System Unit of the CBRS and meets the exception(s) to the CBRA selected above
- [ ] Located within a System Unit of the CBRS and meets different exception(s) than the one(s) selected above (see additional information/comments below)
- [ ] Located within a System Unit of the CBRS and does not meet an exception to the CBRA (see additional information/comments below)
- [X] Due to many competing priorities, the Service is unable to provide an opinion on the applicability of the CBRA's exceptions to this action/project at this time. The GOSR may elect to proceed with the action/project if it has determined that the action/project is allowable under the CBRA. Please note that any new commitment of Federal funds associated with this action/project or a related future project is subject to the CBRA's consultation requirement.

Additional Information/Comments
Include any additional information/comments.

This response does not constitute consultation for any project pursuant to section 7 of the

Endangered Species Act of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) or comments afforded by the Fish and Wildlife Coordination Act (48 Stat. 401; 16 U.S.C. 661 *et seq.*); nor does it preclude comment on any forthcoming environmental documents pursuant to the National Environmental Policy Act (83 Stat. 852; 42 U.S.C. 4321 *et seq.*).

David A. Steinwald, Field Supervisor — 5/20/19

[redacted] — [redacted]

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Long Island Field Office
340 Smith Road
Shirley, NY 11967
Phone: (631) 286-0485 Fax: (631) 286-4003
http://www.fws.gov/northeast/nyfo

To: James McAllister Date: June 18, 2019

USFWS File No:

Regarding your: ☒ letter ☐ FAX ☒ E-mail dated: February 25, 2019

For project: Baldwin Park Shoreline Improvement

Located: Hempstead

In Town/County: Nassau

Pursuant to the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*), the U.S. Fish and Wildlife Service:

☒ Acknowledges receipt of your "no effect" determination. No further ESA coordination or consultation is required.

☐ Acknowledges receipt of your determination. Please provide copy of your determination and supporting materials to any involved Federal agency for their final ESA determination.

☐ Is taking no action pursuant to ESA or any other legislation at this time but would like to be kept informed of project developments.

As a reminder, until the proposed project is complete, we recommend that you check our website (http://www.fws.gov/northeast/nyfo/es/section7.htm) every 90 days from the date of this letter to ensure that listed species presence/absence information for the proposed project area is current. Should project plans change or additional information on listed or proposed species or critical habitat become available, this determination may be reconsidered.

Pursuant to the Fish and Wildlife Coordination Act (FWCA) (48 Stat. 401, as amended; 16 U.S.C. 661 *et seq.*),

☐ Requests additional time for review.

☐ Is providing FWCA comments (see attached).

☐ Will provide FWCA comments separately.

☐ Is taking no action pursuant to FWCA due to lack of funding.

☐ Has no objection pursuant to the FWCA.

☐ Is taking no action pursuant to the FWCA at this time but would like to be kept informed of project developments.

USFWS Contact(s): _____ Date June 18 2019

Supervisor: _____ Date _____

Appendix D: Flood and Wetland Management

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

Baldwin Park Shoreline Stabilization Project
Hamlet of Baldwin, Town of Hempstead, Nassau County, NY

U.S. Department of Housing and Urban Development (HUD)
NYS Homes and Community Renewal (HCR)
NYS Housing Trust Fund Corp. (HTFC)
NYS Governor's Office of Storm Recovery (GOSR)

Introduction & 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 Baldwin Park Shoreline Stabilization Project ("Proposed Project") located within the Town of Hempstead, Nassau County, New York. 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 55, 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).

The purpose of Executive Order (EO) 11988 Floodplain Management is "to avoid to the extent possible the long- and short-term adverse impacts associated with occupancy and modification of floodplains and to avoid direct or indirect support of floodplain development wherever there is a practicable alternative." The purpose of EO 11990 Protection of Wetlands is "to avoid to the extent possible the long- and short-term adverse impacts associated with the destruction or modification of wetlands and to avoid direct or indirect support of new construction in wetlands wherever there is a practicable alternative." This report contains 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 Activities and Land Use

GOSR proposes to provide $4,574,332.00 in Community Development Block Grant-Disaster Recovery funding to replace the existing bulkhead at Baldwin Park. Baldwin is a hamlet within the Town of Hempstead in Nassau County, New York. It is located in the southwestern part of the county on the South Shore of Long Island. Baldwin Park is a Town of Hempstead park situated at the southern terminus of Grand Avenue in Baldwin Harbor. The Park has administration buildings, athletic facilities including baseball and softball fields, a hockey rink, tennis courts, playground and hiking trails and many acres of maintained open space. During Superstorm Sandy and Hurricane Irene, Baldwin Park and the surrounding area suffered significant damage. Hurricane Irene's heavy wind and rain led to flooding, while Superstorm

Sandy caused a ten-foot storm surge at high tide that inundated the Park as well as the surrounding waterfront neighborhoods.

The purpose of the Proposed Project is to implement storm protection measures along the shoreline of Baldwin Park to minimize further erosion and damage that resulted from Superstorm Sandy and other recent storms. The existing timber bulkhead that surrounds the project area exhibits signs of deterioration to the point where the areas upslope of the bulkhead are being eroded in multiple locations due to bulkhead breaches. During times of heavy precipitation, soil erosion into the surrounding waterbodies continues to this day, adversely affecting water quality. The Proposed Project would help protect both water quality and a key community natural and cultural asset from future flood risk and erosion and reduce the need for recovery resources following a major storm event. Further, stabilization of this shoreline and the re-establishment of marsh vegetation is expected to attenuate wave energy and reduce the risk of flood damage to the surrounding neighborhoods.

The Proposed Project would include the following components (see attached Site Plans):

- Removal of 1,600 linear feet of existing and compromised timber bulkhead to be replaced by a living shoreline. The living shoreline would consist of an armored toe stabilization set at the mean highwater line designed with large revetment stones protecting a stone core. The living shoreline will make the shoreline more resilient while minimizing the number of hard features through use of low and high marsh plantings.
- In-place and in-kind replacement of approximately 800 linear feet of existing timber bulkhead; new bulkhead would be set with a top elevation of 5.25, consistent with the existing timber bulkhead elevation.
- Construction of an approximately 0.3-acre gravel parking lot near the northern section of the site.
- Construction of an eight-foot wide gravel pedestrian path.
- Construction of a permanent waterfront landing for non-motorized equipment (canoes and kayaks) for use by the public.

Executive Order 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 on 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 Proposed Action corresponds with a noncritical action not excluded under 24 CFR §55.12(b) or (c), and the use is a functionally dependent use. Funding is permissible for the use in the floodplain and wetland if the proposed action is processed under §55.20 and the findings of the determination are affirmative to suggest that the project may proceed. No work is anticipated in a floodway.

24 CFR Part 55.20 Eight-Step Process

Step ONE: Determine whether the proposed action is located in a wetland or a 100-year floodplain (or a 500-year floodplain for a Critical Action).

The geographic scope for the Proposed Action is located within the Town of Hempstead, Nassau County (see EXHIBIT 1a for current FIRM Panels # 36059C0238G and 36059C0326G). The project location is situated in FEMA Zone "AE", with a Base Flood Elevation of 9-10 feet. The Proposed Project is also situated within tidally influenced wetlands of Hempstead Bay which are classified by the National Wetlands Inventory as Estuarine-Marine Deepwater Wetlands (see EXHIBIT 1b).

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 floodplain and wetlands, 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 Baldwin Herald and La Noticia on January 19, 2017 (see EXHIBIT 2 for affidavit of publication). The 15-day period expired on February 3, 2017. The notice was also sent to the following state and federal agencies on January 17, 2017: 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); U.S. Army Corps of Engineers (USACE); 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 the Nassau County Executive.

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).

After a consideration of the following alternatives, GOSR has determined the best practicable alternative is the Proposed Action. The alternative actions considered are as follows: No Action and Limited Action Alternative.

No Action Alternative

Under a No Action alternative, the deteriorated condition of the structure would remain unchanged; still subject to the existing potential for storm-related damage. Stormwater would continue to erode the banks and discharge sediment into the surrounding waterbodies, adversely impacting water quality and the species which live there. The ongoing erosion will continue to weaken the damaged bulkhead and sediment from the erosion will settle in and at the mouth of the Oakwood Canal creating a navigation hazard. Storm surge would continue to threaten to flood the subject property and properties north.

The bulkhead and living shoreline are non-critical actions and a functionally dependent use, which can be constructed in wetlands, 100-year floodplain, coastal high hazard areas and floodways if processed under §55.20.

Limited Action Alternative

The project involves the replacement of a deteriorated bulkhead that has been in place for many years. There is no limited action alternative.

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).

GOSR has evaluated potential alternatives to the Proposed Action in the floodplain and wetlands. Since the proposed project involves the replacement of a structure that already exist within the floodplain and wetlands; there is no alternative. Therefore, GOSR has determined that the proposed activities must take place in the floodplain and wetlands.

The Proposed Project will result in beneficial effects because the new bulkhead will be better able to withstand future storms and will protect the park as well as the surrounding waterfront neighborhoods which have experienced flooding during heavy rainfall. The Proposed Project will result in less than 1.50 acres of temporary impacts during construction and less than 0.17 acres of permanent impacts to the floodplain and NWI mapped wetlands. The reduction of sediment resulting from erosion will improve water quality which will, in turn, benefit wetland communities in the vicinity of the project area. In addition, the existing wetland community will increase in size from the installation of high and low marsh plantings within the proposed living shoreline.

A US Army Corps of Engineers Nationwide Permit 3 and 36, is being obtained for the Project. The permit is required for the repair, rehabilitation, or replacement of any previously authorized, currently serviceable structure, or fill, or of any currently serviceable structure of fill authorized by 33 CFR 330.3, provided that the structure or fill is not to be put to uses differing from those uses specified or contemplated for it in the original permit or the most recently authorized modifications. Requirements of the permit include using and maintaining appropriate soil erosion and sediment controls during construction and permanent stabilization of all exposed soil and other fills at the earliest practicable date. The conditions of this Nationwide Permit prohibit substantial disruption of the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, require avoiding activities in spawning areas during spawning seasons to the maximum extent practicable, and prohibit activities that result in the physical destruction of an important spawning area. Implementation of the project will occur in conformance with any conditions of the NWP including the seasonal avoidance of in-water work to protect winter flounder.

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 replacement bulkhead and living shoreline would be placed within the same general location of the existing bulkhead, which will minimize impacts to the floodplain and wetlands. The total length of the existing bulkhead is 2,400 feet, 1,600 linear feet of which would be replaced by a living shoreline. The remaining approximately 800 linear feet of deteriorated bulkhead would be replaced with timber bulkhead. Beneficial impacts to wetlands and water quality will result from the construction of the new system.

Step Six: Reevaluate the proposed action to determine: (1) Whether it is still practicable in light of its exposure to flood hazards in the floodplain, the extent to which it will aggravate the current hazards to other floodplains or wetlands, and its potential to disrupt floodplain or wetland values; and (2) Whether alternatives preliminarily rejected at Step Three are practicable in light of the information gained in Steps Four and Five.

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 and wetlands. There is no practicable alternative to the proposed action. The majority of proposed activity located within the floodplain and marsh community includes the replacement of a structure that has existed for years in the floodplain and wetlands. The Proposed Action would not aggravate current hazards to the floodplain, nor will the Proposed Action disrupt floodplain or wetland values.

GOSR and the project engineer will take the following steps to mitigate the effects of the Project on the floodplain and wetlands and to preserve natural and beneficial properties of the floodplain and surrounding tidal marsh:

1) Site-specific hazard mitigation measures will be taken, including BMPs to reduce the potential for sedimentation during the removal of old bulkhead and the installation of new bulkhead pilings.

2) Debris and construction waste will be properly disposed of.

GOSR has also reconsidered the alternatives discussed in Step Three and determined the best practicable alternative is the proposed action. The alternative actions considered are as follows: Therefore, there is no practicable alternative to locating the proposed action in the floodplain.

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 proposed Baldwin Park Shoreline Stabilization Project. A 15-day "Notice for Final Public Review of a Proposed Activity in a 100-Year Floodplain and Wetland" was published in The Wave and La Noticia on June 27, 2019. The 15-day period expired on July 12, 2019. The notice targeted local residents, including those in the floodplain. The notice was also sent to the following state and federal agencies on June 25, 2019: 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); National Park Service (NPS); National Oceanic and Atmospheric Administration (NOAA); NOAA National Marine Fisheries Service (NMFS); U.S. Army Corps of Engineers (USACE); NYS Department Environmental Conservation; 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 the Town of Hempstead and the office of the Nassau County Executive (see EXHIBIT 4 for the notice).

GOSR received 0 public comments on this notice.

Step Eight: Implement the Action

Step eight is implementation of the proposed action. GOSR, operating under the auspices of the New York State Homes and Community Renewal's (NYSHCR) Housing Trust Fund Corporation, is the responsible entity. GOSR will ensure that the Proposed Action, as described above, is executed and necessary language will be included in all agreements with participating parties. Implementation of the proposed action may require additional local and state permits, which could place additional design modifications or mitigation requirements on the Project. It is acknowledged there is a continuing responsibility by the responsible entity to ensure, to the extent feasible and necessary, compliance with Steps 5 through 7.

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

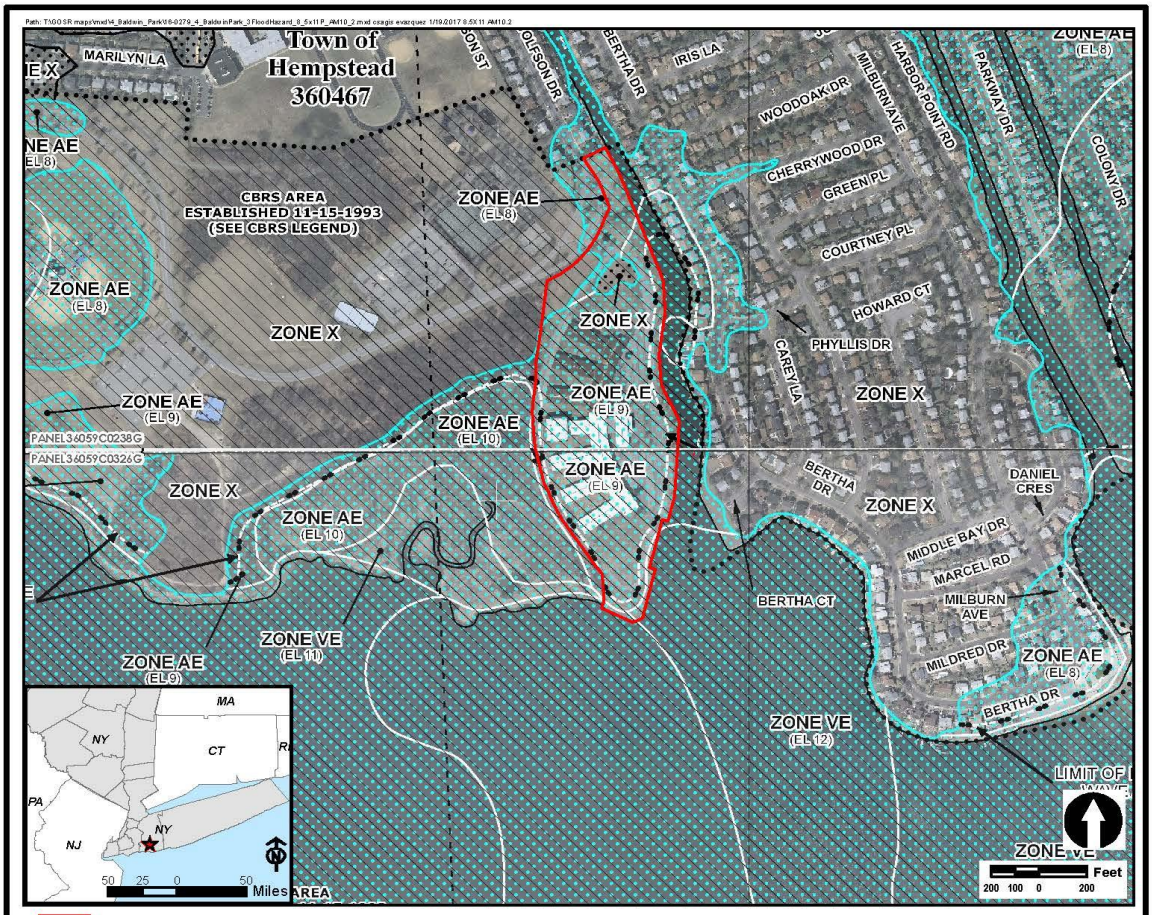
EXHIBIT 2: Copy of Notice Transmitting Notice of Early Public Review and Proof of Publication

EXHIBIT 3: Public Comments Received and Response, if applicable

EXHIBIT 4: Copy of Transmittal of Notice of Final Public Review and Proof of Publication

ATTACHMENT: Site Plans

EXHIBIT 1a:
FEMA FLOOD HAZARD MAP



Project Site

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.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

ZONE X — OTHER FLOOD AREAS

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.

ZONE X — OTHER AREAS

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

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

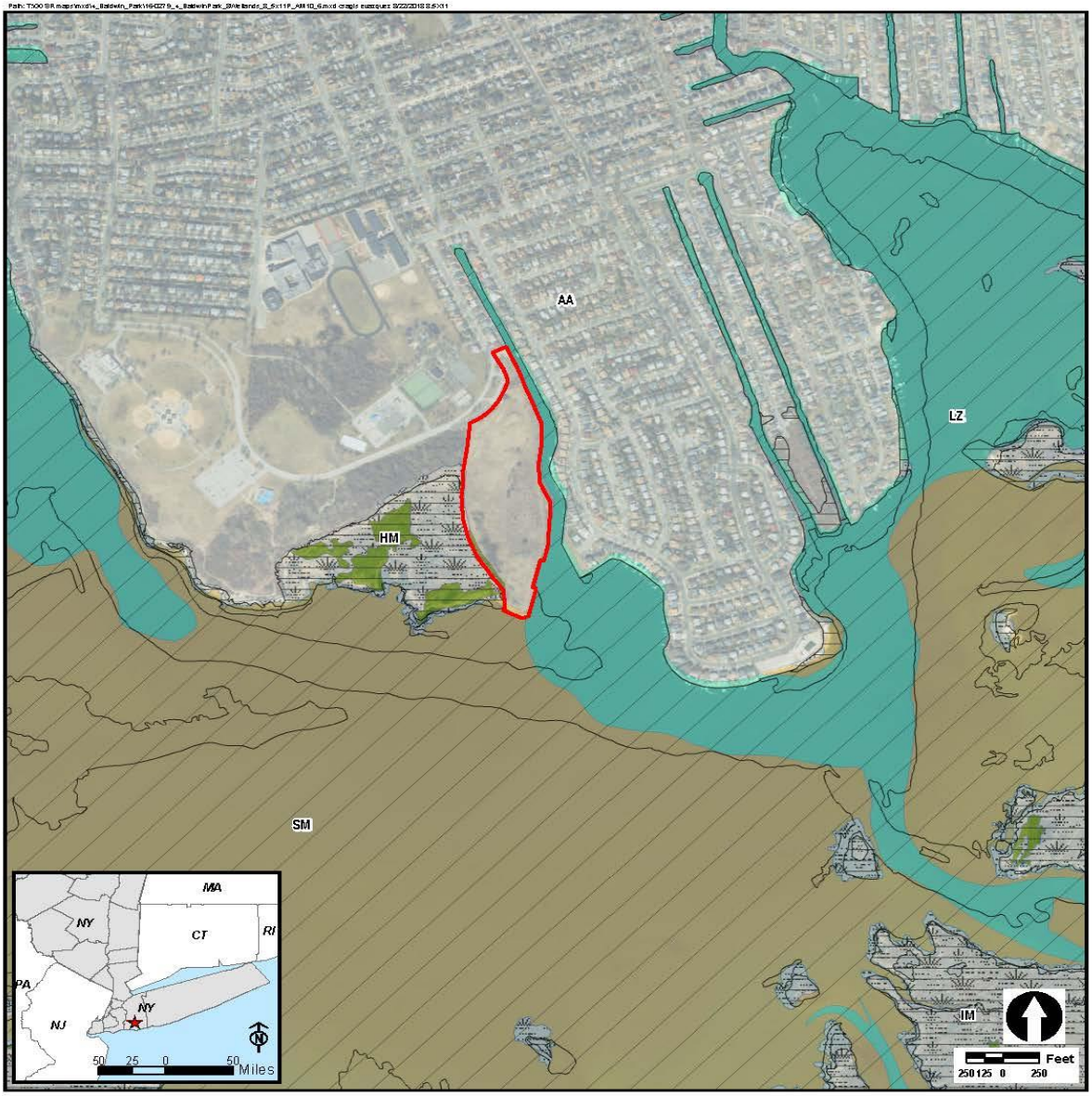
CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.
Source: Federal Emergency Management Agency, Flood Insurance Rate Map (FIRM), Panels: 36059C0238G and 36059C0326G (effective date: 9/11/2009)

Figure 1a
Flood Hazard
Baldwin Park Shoreline Stabilization Project
Hempstead, Nassau County, NY

CSA Group

EXHIBIT 1b

WETLAND MAP



Project Site

Tidal Wetland Category (NYSDEC)

- SM - Coastal Shoals, Bars and Mudflats
- HM - High Marsh
- IM - Intertidal Marsh
- LZ - Littoral Zone
- AA - Adjacent Area

Wetland Type (FWS NWI)

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

Figure 1b

Wetlands

Baldwin Park Shoreline Stabilization Project

Hempstead, Nassau County, NY

Source: Tidal Wetlands - NYC and Long Island - 1974, New York State Department of Environmental Conservation (NYSDEC) November 1, 2005; Fish and Wildlife Service (FWS), National Wetlands Inventory (NWI); ESRI World Imagery Basemap

CSAGROUP EST. 1956

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

Baldwin Herald
Bellmore Herald Life
East Meadow Herald
Franklin Square/Elmont Herald
Freeport Leader
Long Beach Herald
Lynbrook/East Rockaway Herald
Malverne/W.Hempstead Herald

RICHNER COMMUNICATIONS INC.

Merrick Herald Life
Nassau Herald
Oceanside/Island Park Herald
Oyster Bay Guardian
Rockaway Journal
Rockville Centre Herald
South Shore Record
Seaford Herald Citizen
Valley Stream Herald
Wantagh Herald Citizen

AFFIDAVIT OF PUBLICATION

STATE OF NEW YORK
COUNTY OF NASSAU

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

BALDWIN HERALD

A weekly newspaper published and mailed at

BALDWIN

New York, and the attached Notice of

BALDWIN PARK WATER ESPLANADE PROJECT

was published in the issue(s) of that paper as follows:
1/19/17

James Slater

Subscribed and sworn to
before me this 2 day
of FEBRUARY, 2017

Hollis Farberman
Notary Public

HOLLIS FARBERMAN
Notary Public, State of New York
No. 01FA6045890
Qualified in Nassau County
Commission Expires July 31, 2018

2 Endo Boulevard, Garden City, New York 11530
Phone: 516-569-4000 Fax 516-569-4942

LEGAL NOTICE

EARLY NOTICE OF A PROPOSED ACTIVITY IN A 100-YEAR FLOODPLAIN AND WETLAND

BALDWIN PARK WATER ESPLANADE PROJECT

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 an application from The Dormitory Authority of the State of New York (DASNY), on behalf of the Town of Hempstead Department of Parks and Recreation, to use Community Development Block Grant – Disaster Recovery (CDBG-DR) funding from the NY Rising Community Reconstruction Program to implement the Baldwin Park Water Esplanade Project (hereinafter, the "Proposed Activity") 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 Activity, 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 Activity will be provided by the HUD CDBG-DR program for storm recovery activities in New York State. The Proposed Activity is needed to repair and replace deteriorating bulkheads and to protect community assets and nearby residences from the effects of future tidal/storm surge and further erosion. The existing timber bulkheads that line the eastern waterfront of Baldwin Park and a 0.6 acre parcel situated east of Baldwin Park, across the Oakwood Canal near the terminus of Bertha Court in Baldwin Harbor, exhibit signs of deterioration to the point where the areas upslope of the bulkheads are being eroded in multiple locations due to breaches of the bulkhead. At the Baldwin Park site, Proposed Activity would replace 1,550 linear feet of timber bulkheads with a living shoreline, and 800 linear feet of the timber bulkhead will be replaced in-kind and in-place. To the east of Baldwin Park and across Oakwood Canal, the Proposed Activity would replace 500 linear feet of timber bulkhead to an elevation of nine, in accordance with 100 year floodplain elevation requirements, which is higher than the existing timber bulkhead. Stabilization of these shorelines and the re-establishment of marsh vegetation is expected to attenuate wave energy and reduce the risk of flood damage to the surrounding neighborhoods. The Proposed Activity will result in temporary and permanent impacts to 1.68 acres of 100-Year Floodplain and 1.68 acres of DEC/NWI mapped wetlands. The Proposed Activity will result in permanent impacts to 1.68 acres of 100-Year Floodplain and 1.68 acres of NWI/DEC mapped wetlands. These impacts will result from the repair and restoration of bulkheads to mitigate damage and wave overtopping from future storms. The project will also replace 1,550 linear feet of timber bulkheads with a living shoreline, which would create 1.14 acres of wetlands introducing 0.60 acres of high salt marsh and 0.54 acres of low salt marsh. 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, 38-40 State Street Albany NY 12866; 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 February 6, 2017 will be considered.

Noticia

NOTAS L

NOTIFICACIÓN ANTICIPADA PARA UNA PROPUESTA DE ACTIVIDAD EN UNA LLANURA DE INUNDACIÓN Y HUMEDALES DE 100 AÑOS PROYECTO DE EXPLANADA EN BALDWIN PARK TOWN OF HEMPSTEAD, NASSAU COUNTY, NEW YORK

Esto es para notificar que la Oficina de Recuperación de Tormentas (GOSR) del Gobernador, mediante la oficina de la Corporación del Fondo Fiduciario de la Vivienda del Estado de Nueva York (HTFC), ha recibido una solicitud de la Autoridad de los Dormitorios del Estado de Nueva York (DASNY), en nombre del Departamento de Parques y Recreación del Town de Hempstead, para usar los fondos de la subvención de Desarrollo Comunitario - Recuperación de Desastres (CDBG-DR) del Programa de Reconstrucción de la Comunidad de Nueva York para implementar el Proyecto del agua en la Esplanada del parque de Baldwin (el cual se llamara aquí mencionada "Actividad Propuesta") y está llevando a cabo una evaluación según lo requerido por las Órdenes Ejecutivas 11988 y 11990, de acuerdo a las regulaciones del Departamento de Vivienda y Renovación Urbana (HUD) de los Estados Unidos (24 CFR Parte 55). Hay tres propósitos principales para esta notificación. En primer lugar, brindar al público la oportunidad de expresar sus preocupaciones y compartir información acerca la Actividad Propuesta, incluyendo ubicaciones alternativas para mover la llanura inundada y humedales existentes por 100 años. Segundo, un aviso público adecuado es una herramienta importante para la educación del público. La difusión de información al público acerca de estas llanuras inundadas y humedales facilita y refuerza los esfuerzos gubernamentales para reducir los riesgos relacionados con la ocupación y modificación de estas áreas especiales. En tercer lugar, como cuestión de imparcialidad, cuando el gobierno determina que participará en las acciones que se llevarán a cabo en las llanuras inundadas o humedales, debe informar a aquellas personas que pueden ser puestas en mayor o continuo riesgo. El fondo para la Actividad Propuesta será proporcionado por el programa HUD CDBG-DR para actividades de recuperación de tormentas en el Estado de Nueva York.

La Actividad Propuesta es necesaria para reparar y reemplazar los cercos deteriorados y proteger los bienes de la comunidad y las residencias cercanas de los efectos de futuras mareas / tormenta de mareas y futuras erosiones. Los actuales cercos de madera que bordean la línea costera oriental del parque de Baldwin y una parcela de 0.6 acres situada al este del parque de Baldwin, a través del Canal de Oakwood cerca del final de Bertha Court en Baldwin Harbor, muestran signos de deterioro, hasta el punto en que las áreas situadas de los cercos se están erosionando en múltiples lugares debido a las rupturas de los cercos. En el sitio del parque de Baldwin, la Actividad Propuesta reemplazaría 1,550 pies lineales de cerco de madera con una línea costera viva y 800 pies lineales del cerco de madera serán reemplazados en especie y en su lugar. Al este del parque de Baldwin y a través del Canal de Oakwood, la Actividad Propuesta reemplazaría a 500 pies lineales de cerco de madera a una elevación de nueve, de acuerdo con los requisitos de elevación de la planicie de inundación de 100 años, la cual es más alto que el mamparo de madera actual. Se espera que la estabilización de estos litorales y el restablecimiento de la

vegetación de los pantanos atenúen la energía de las olas y reduzcan el riesgo de daños por inundación en los barrios circundantes.

La Actividad Propuesta tendrá en impactos temporales y permanentes a 1,68 hectáreas de la llanura inundada por de 100 Años y 1.68 hectáreas de humedales mapeados por NWI/ DEC. La Actividad Propuesta tendrá impactos permanentes en 1.68 hectáreas de la llanura inundada por 100 años y 1.68 hectáreas de humedales serán mapeados por NWI/DEC. Estos impactos serán el resultado de la reparación y restauración de los cercos para mitigar los daños y remontar las olas de futuras tormentas. El proyecto también reemplazará 1.550 pies lineales de cercos de madera con una línea costera viva, lo cual crearía 1.14 hectáreas de humedales introduciendo 0.60 hectáreas de pantanos de alta salida y 0.54 hectáreas de pantanos de baja salida.

Mapas de inundaciones basados en los Mapas de Precios de Seguro Contra Inundaciones de FEMA y mapas de humedales basados en los datos de NWI y DEC han sido preparados y están disponibles para revisión con información adicional en http://www.stormrecovery.ny.gov/environmental-docs.

Cualquier persona, grupo o agencia puede enviar sus comentarios acerca de la Actividad Propuesta por escrito o solicitar más información contactándose con Lori A. Shirley, Oficial de Certificación Ambiental, Oficina de Recuperación de Tormentas del Gobernador, 38-40 State Street Albany NY 12866; correo electrónico: NYSCDBG_DR_ER@nyshcr.org. Las horas normales de oficina son de 9:00 AM a 5:00 PM de lunes a viernes. Para más información llamar al 518-474-0755. Todos los comentarios recibidos antes del 6 de febrero de 2017, serán considerados.

AFFIDAVIT OF PUBLICATION

NY GOVERNOR'S OFFICE OF STORM RECOVERY
25 Beaver St. 5th Floor
New York, NY 10004
STATE OF NEW YORK SS:

Silvana Diaz

Of Noticia, Nassau County, being duly sworn, says that such person is, and at the time of publication of the annexed notice was a duty authorized custodian of records of Noticia the publisher of Noticia, a newspaper published weekly in the county of Nassau and Suffolk, a true copy was published in the following edition(s) of said newspaper on the following date:

1 week January 18, 2017 Nassau & Suffolk County

Sworn To Before Me This
26th day of January 2017
Notary Public

ARTIE M. SLOMAN
Notary Public, State of New York
No. 01SL6313518
Qualified in Nassau County
Commission Expires October 20, 2018

EXHIBIT 3
Public Comments Received and Response

0

EXHIBIT 4
Copy of Transmittal Notice of Final Public Review
and Proof of Publication

[Will be published June 27, 2019]

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

BALDWIN PARK SHORELINE STABILIZATION
TOWN OF HEMPSTEAD, NASSAU COUNTY, NEW YORK

Name of Responsible Entity and Recipient: New York State Homes and Community Renewal (HCR), 25 Beaver Street, New York, New York 10004, in cooperation with the New York State Housing Trust Fund Corporation (HTFC), of the same address. Contact: Lori A. Shirley, Certifying Environmental Officer, Governor's Office of Storm Recovery, 38-40 State Street, Albany NY 12866; (518) 474-0755. 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 (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: GOSR proposes to provide $4,574,332.00 in CDBG-DR funding for the Baldwin Park Shoreline Stabilization Project ("Proposed Project"), located within the Town of Hempstead. The Proposed Project would include the removal of 1,600 linear feet of existing and compromised timber bulkhead to be replaced by a living shoreline. The living shoreline would consist of an armored toe stabilization set at the mean highwater line designed with large revetment stones protecting a stone core. The living shoreline will make the shoreline more resilient while minimizing the number of hard features through use of low and high marsh plantings. In addition, approximately 800 linear feet of existing timber bulkhead would be replaced (in-place and in-kind) at a top elevation of 5.25, consistent with the existing timber bulkhead elevation. The proposed project would also involve the construction of an approximately 0.3-acre gravel parking lot near the northern section of the site, an eight-foot wide gravel pedestrian path, and a permanent waterfront landing for non-motorized equipment (canoes and kayaks) for use by the public. The Proposed Activity is needed help protect both water quality and a key community natural and cultural asset from future flood risk and erosion and reduce the need for recovery resources following a major storm event.

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

The project area is located within FEMA designated regulatory floodplain and New York State Department of Environmental Conservation (NYSDEC) tidal wetlands. The Proposed Project will result in less than 1.50 acres of temporary impacts during construction and less than 0.17 acres of permanent impacts to the floodplain and NWI mapped wetlands. Applicable permits from the New York State Department of Environmental Conservation, the United States Army Corps of Engineers, and local jurisdiction 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.

There are three primary purposes for this notice. First, people who may be affected by activities in floodplains/ wetlands and those who have an interest in the protection of the natural environment have an opportunity to express their concerns and provide information about these areas. Second, adequate public notice is an important public education tool. The dissemination of information and request for public comment about floodplains/ wetlands can facilitate and enhance federal efforts to reduce the risks associated with the occupancy and modification of these special areas. Third, as a matter of fairness, when the federal government determines it will participate in actions taking place in floodplain / wetlands, it must inform those who may be put at greater or continued risk.

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 is also available in person Monday – Friday, 9:00 AM – 5:00 PM at the following address: Governor's Office of Storm Recovery, 99 Washington Avenue, Suite 1224, Albany, New York 12260. Contact: Lori A. Shirley (518) 474-0755.

Further information may be requested by writing to the above address, emailing NYSCDBG_DR_ER@nyshcr.org or by calling (518) 474-0755. 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 Floodplain and Wetland, FONSI and/or NOIRROF: Any individual, group or agency may submit written comments on the 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 July 12, 2019 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 July 12, 2019: Governor's Office of Storm Recovery, 99 Washington Avenue, Suite 1224, Albany, New York 12260. Comments may be received by telephone by contacting Lori A. Shirley at (518) 474-0755. All comments must be received on or before 5 pm on July 12, 2019 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 July 15, 2019, 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 Lori A. Shirley, in her 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

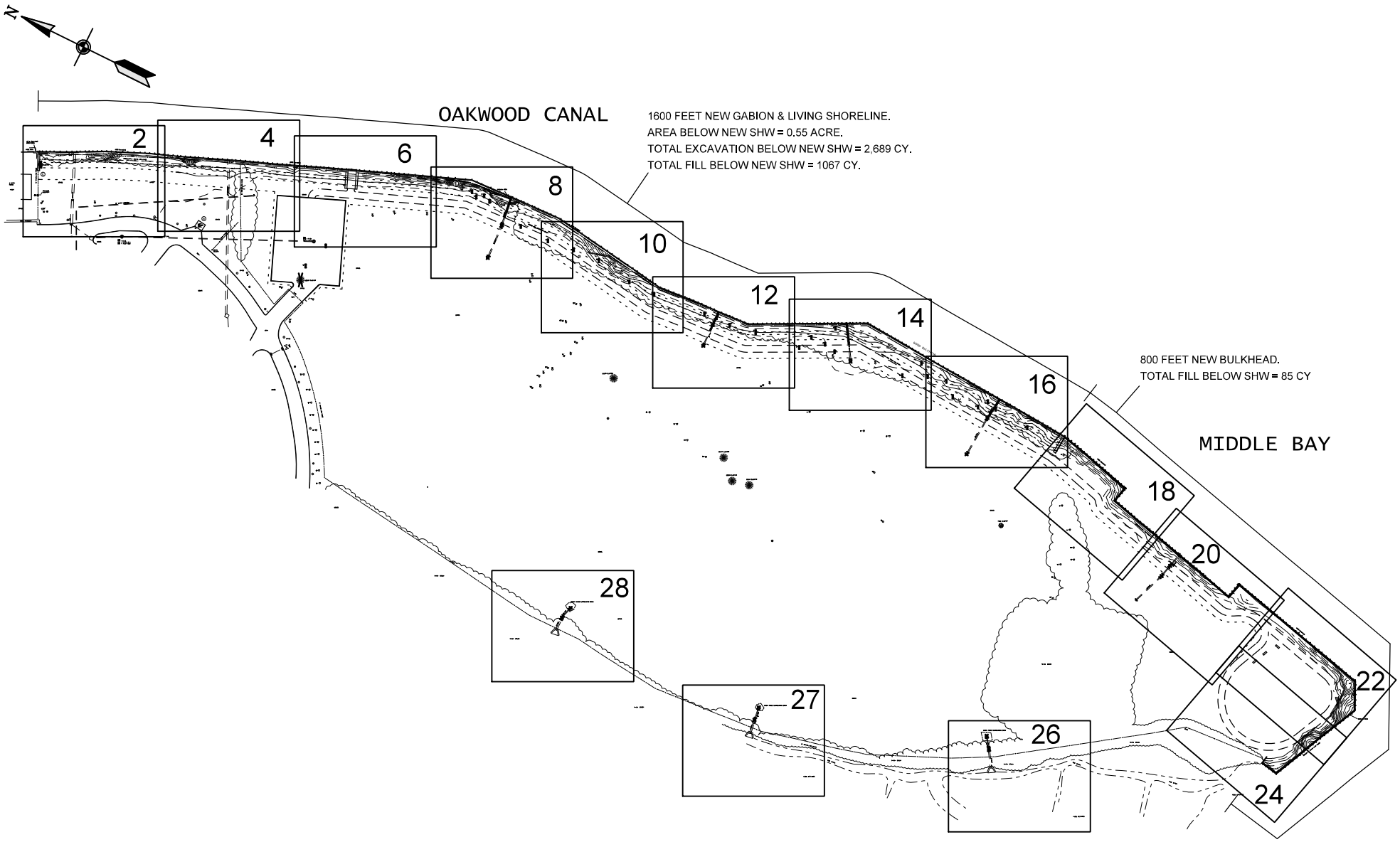
environmental review process and that these responsibilities have been satisfied. HUD's approval of the certification satisfies its responsibilities under NEPA and related laws and authorities and allows GOSR to use CDBG-DR program funds.

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.

Lori A. Shirley
Certifying Officer



NO.	DATE	REVISIONS

In Charge:	D.L.T.
Compilation:	J.M.T.
Design:	J.M.T.
Drawn:	J.M.T.
Checked:	J.M.T.
Reviewed:	D.L.T.

PLAN NOTES:

1. EXISTING CONDITIONS SHOWN AS OF FEBRUARY 2018.
2. UNDERGROUND UTILITIES SHOWN ARE BASED UPON LIMITED SCHEMATIC INFORMATION PROVIDED BY OTHERS. NOT ALL EXISTING UNDERGROUND UTILITY MAINS AND SERVICES ARE SHOWN, PRIVATE UTILITIES, IF EXISTING, ARE NOT SHOWN OR INDICATED.
3. HORIZONTAL AND VERTICAL CONTROL INDICATED IS IN NASSAU COUNTY DATUM. HORIZONTAL CONTROL INDICATED IS NAD83 (1996).US SURVEY FEET. VERTICAL CONTROL INDICATED IS NAVD (1988) FEET.

BALDWIN HARBOR PARK KEY MAP

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 200'
Date:	NOV. 2018
File No.:	
Dwg No.:	
Sheet No.:	1 of 30

NOTE: EXISTING SHW, MHW, & MLW ARE SEAWARD OF EXISTING BULKHEAD.
ALL PROPOSED WORK TO BE DONE LANDWARD OF EXISTING BULKHEAD.

OAKWOOD CANAL

SAWCUT EXISTING BULKHEAD SHEETING AND PILING TO ELEVATION 0.0.
REMOVE EXISTING BULKHEAD ANCHORING.

BULKHEAD OUTFALL
INV = -0.34 W/CAGE

PROVIDE NEW GABIONS.
117 CY FILL BELOW NEW SHW.
SEE DETAIL SHEET 29.

PROVIDE COFFERDAM.
ITEM 98X.

MATCHLINE
SEE SHEET 4

METAL BULKHEAD
UNDER DECK
-6.3 *

EXISTING MLW EL = -2.28
EXISTING MHW = 1.95
EXISTING SHW EL = 2.95

WOOD RAMP

WOOD BULKHEAD

TB = 5.3

TB = 5.2

TB = 5.4

GATE

REMOVAL BELOW NEW MHW
11.0' X 176.0' (214 CY)

NEW MHW EL = 1.95

NEW SHW EL = 2.95

REMOVE
EXISTING
TREE.

CLUSTER

IRREGULAR 6' CHAIN LINK FENCE

PROVIDE CLEARING AND GRUBBING.

PROVIDE NEW LIVING SHORELINE.
SEE DETAIL SHEET 29.

REMOVE EXISTING FENCE.

6' CHAIN LINK FENCE

GRASS

GRASS

PROVIDE NEW TREE. (TYP.)

RESTORATION LIMIT LINE.

TYPICAL CROSS SECTION
SEE SHEET 3

DRAINAGE
EASEMENT

10.00'

24"X38" ERCP

8" WATER (APPROX)

SIDEWALK

NO.	DATE	REVISIONS

In Charge:	D.L.T.
Compilation:	J.M.T.
Design:	J.M.T.
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Checked:	J.M.T.
Reviewed:	D.L.T.

TOWN OF HEMPSTEAD, N.Y.
FOUNDED 1644
Department of Engineering

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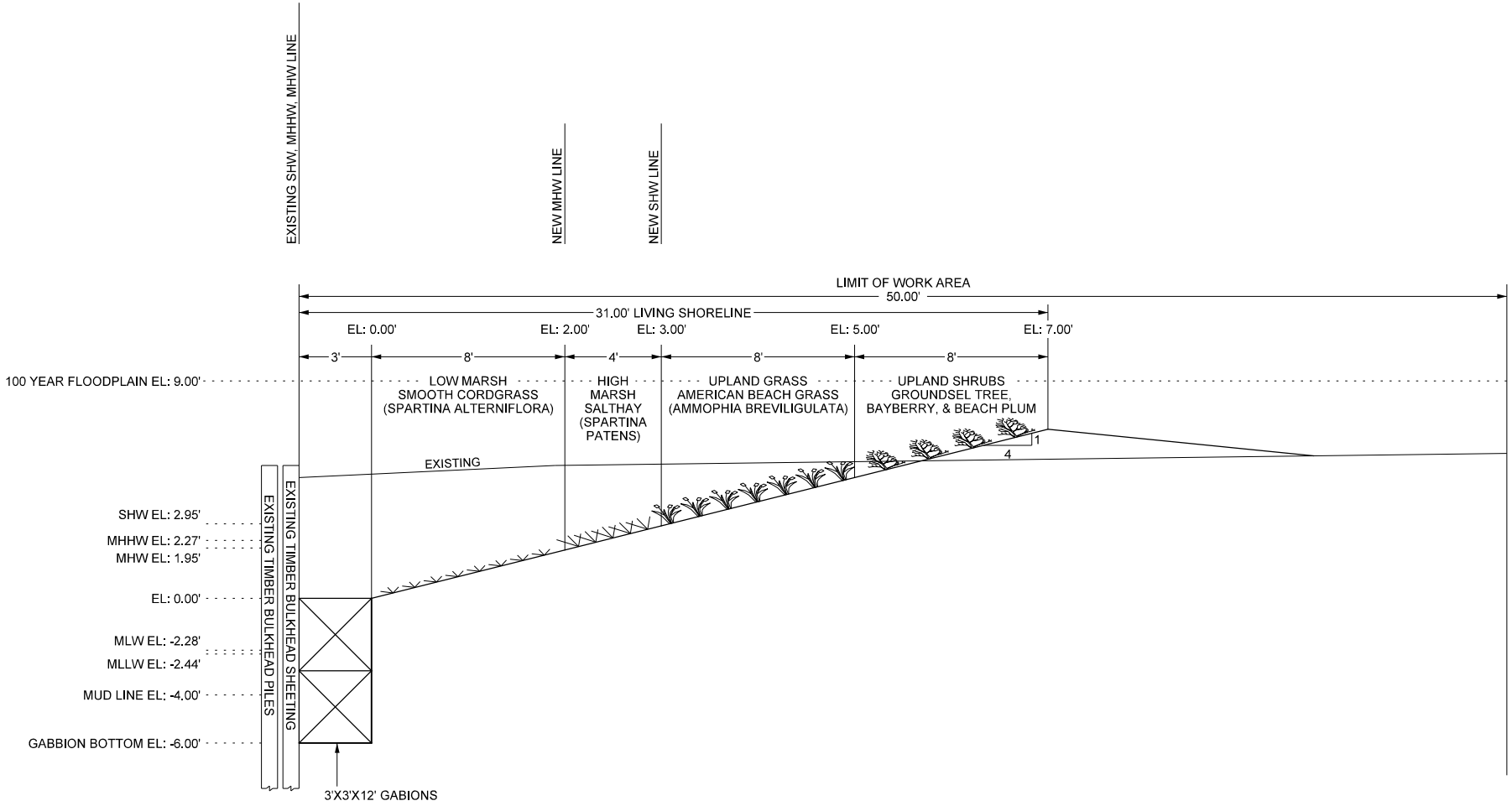
BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	NOV. 2018
File No.:	
Dwg No.:	
Sheet No.:	2 of 30



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Design:	J.M.T.
Drawn:	J.M.T.
Checked:	J.M.T.
Reviewed:	D.L.T.

TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
Department of Engineering

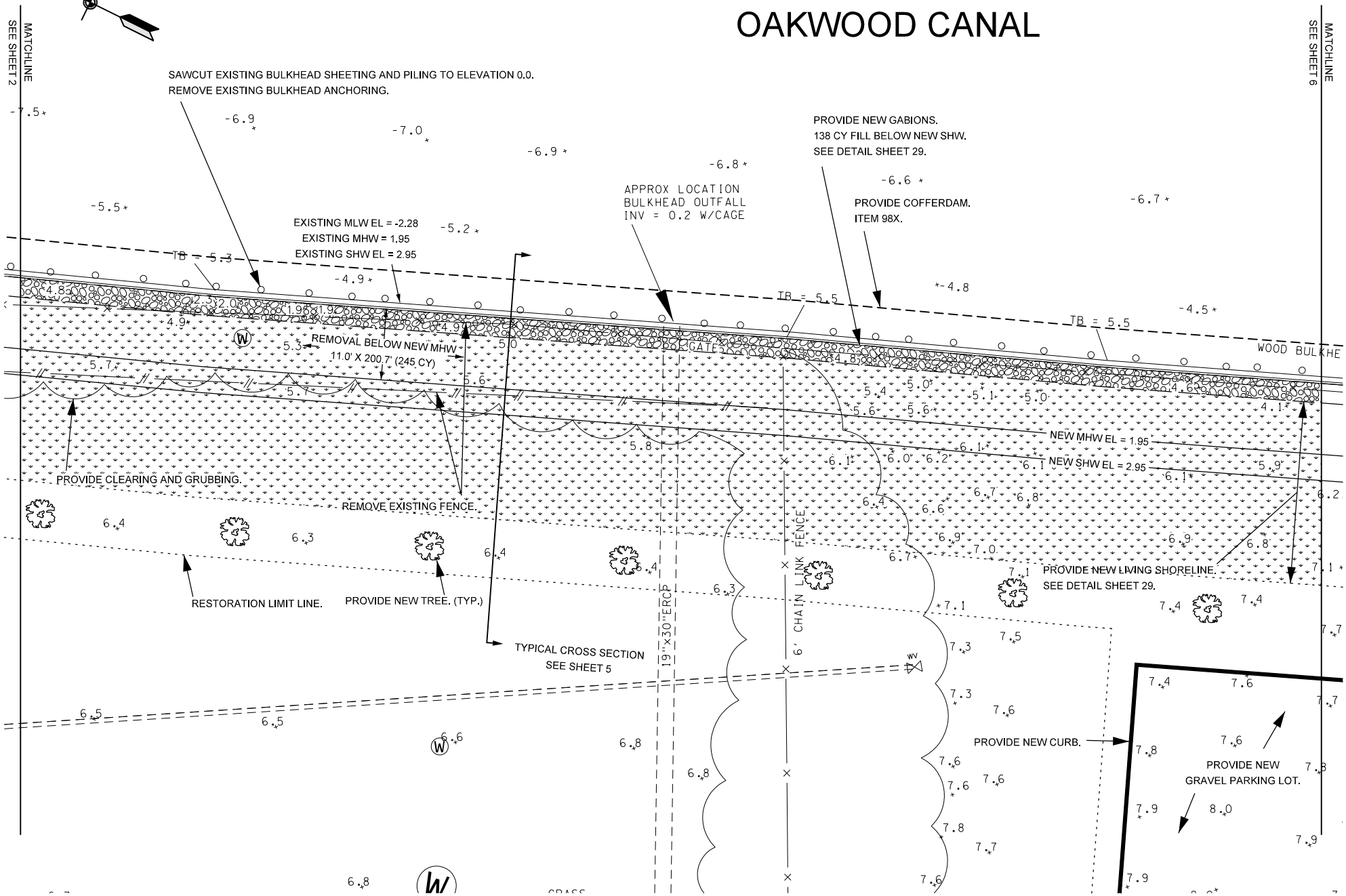
BALDWIN HARBOR PARK CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 3 of 30

NOTE: EXISTING SHW, MHW, & MLW ARE SEAWARD OF EXISTING BULKHEAD.
ALL PROPOSED WORK TO BE DONE LANDWARD OF EXISTING BULKHEAD.

OAKWOOD CANAL



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Drawn:	J.M.T.
Checked:	J.M.T.
Reviewed:	D.L.T.

TOWN OF HEMPSTEAD, N.Y. FOUNDED 1644
Department of Engineering

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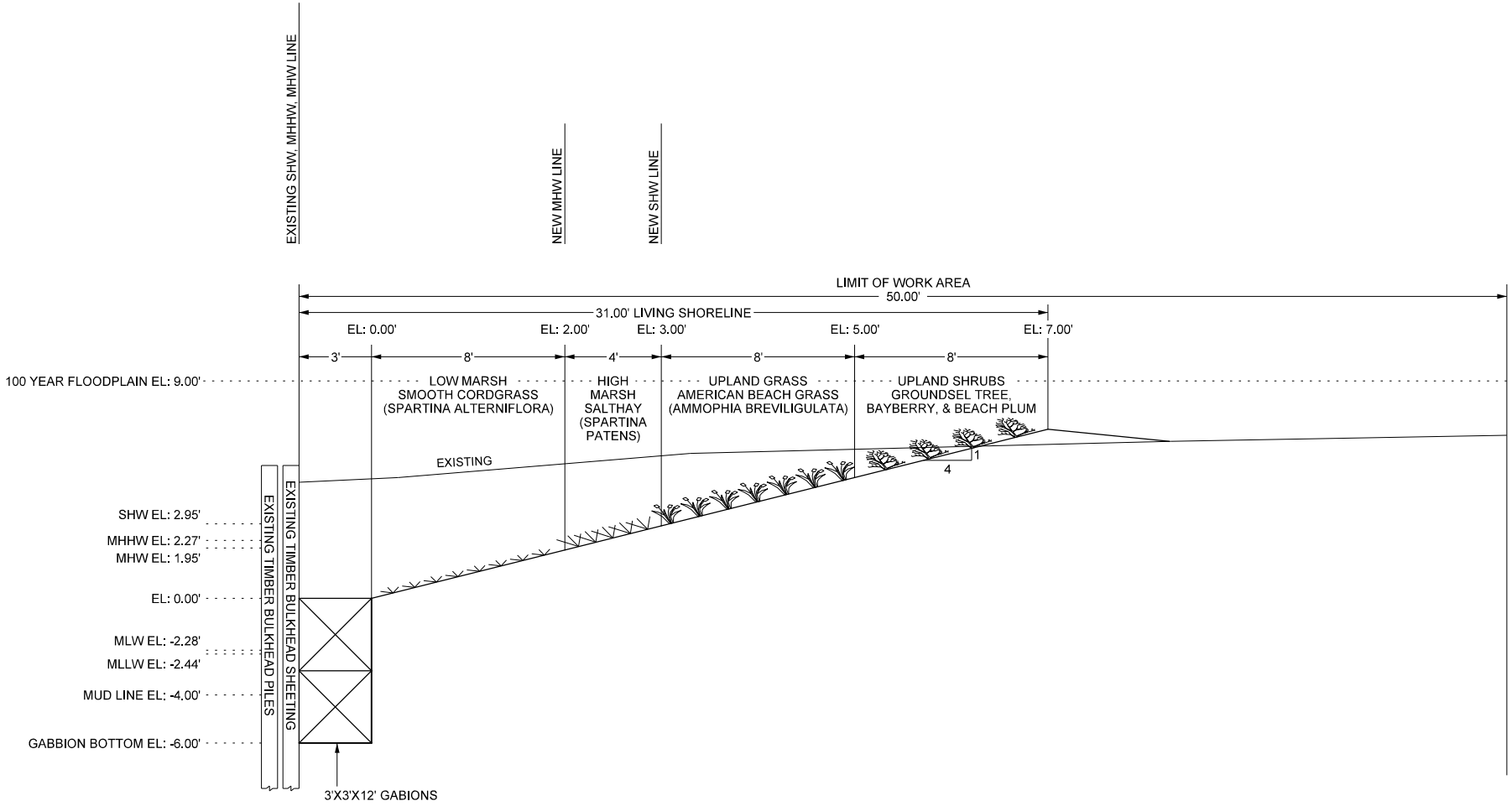
BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	NOV. 2018
File No.:	
Dwg No.:	
Sheet No.:	4 of 30



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Design:	J.M.T.
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Checked:	J.M.T.
Reviewed:	D.L.T.

TOWN OF HEMPSTEAD, N.Y. FOUNDED 1644
Department of Engineering

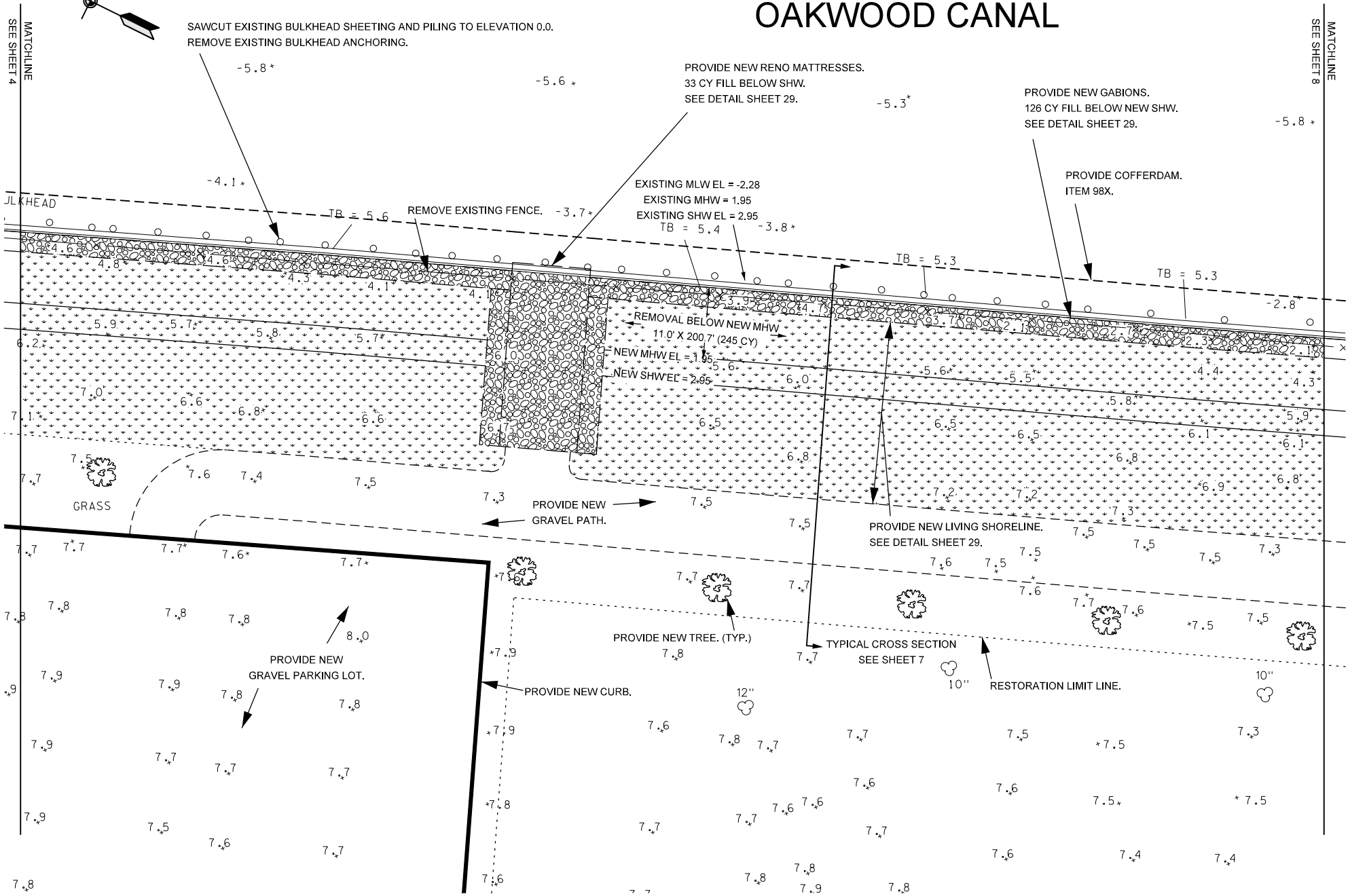
BALDWIN HARBOR PARK CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 5 of 30

NOTE: EXISTING SHW, MHW, & MLW ARE SEAWARD OF EXISTING BULKHEAD.
ALL PROPOSED WORK TO BE DONE LANDWARD OF EXISTING BULKHEAD.

OAKWOOD CANAL



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Design:	J.M.T.
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Checked:	J.M.T.
Reviewed:	D.L.T.

TOWN OF HEMPSTEAD, N.Y. FOUNDED 1644
Department of Engineering

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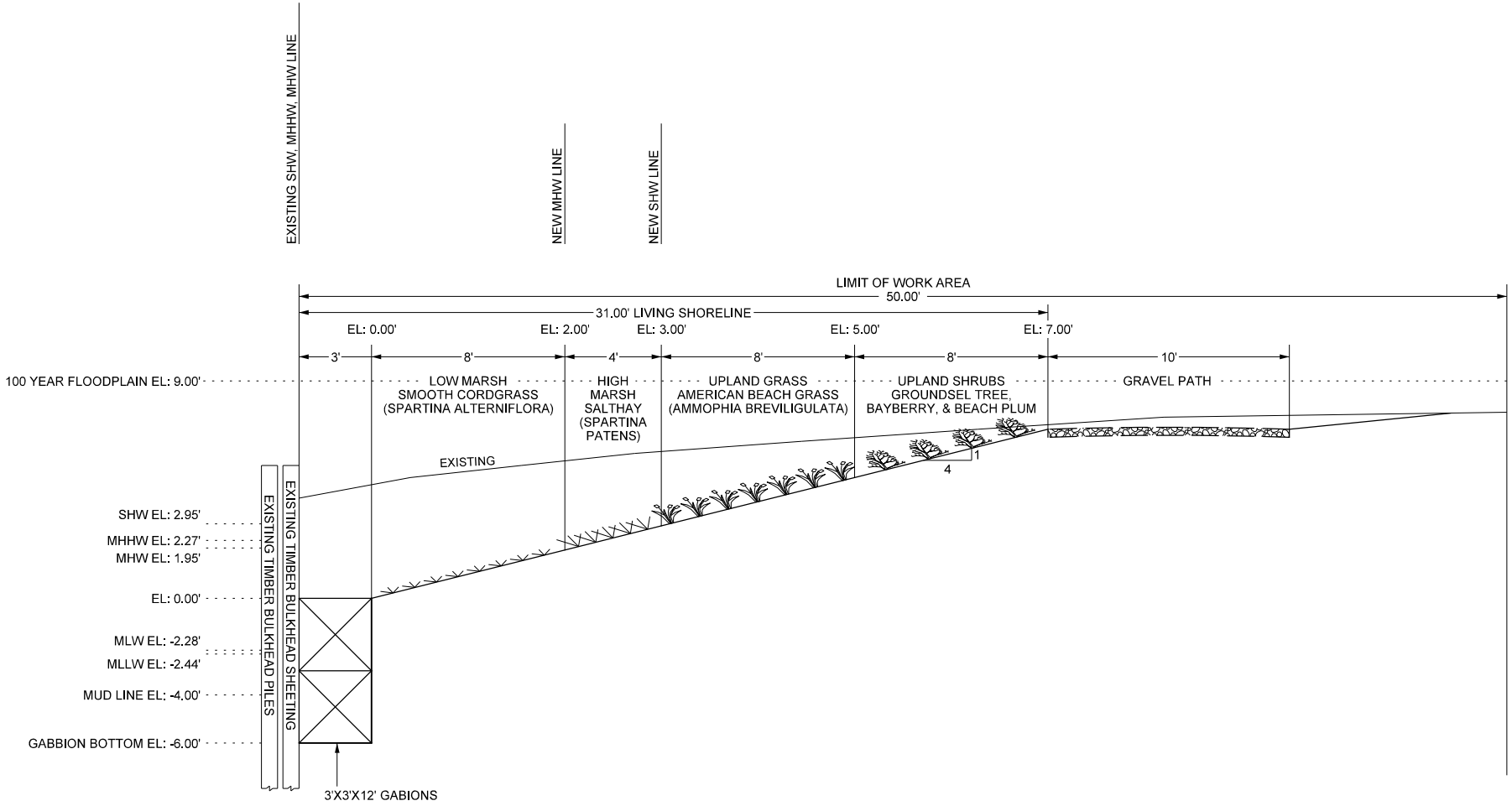
BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	NOV. 2018
File No.:	
Dwg No.:	
Sheet No.:	6 of 30



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Drawn:	J.M.T.
Checked:	J.M.T.
Reviewed:	D.L.T.

TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
Department of Engineering

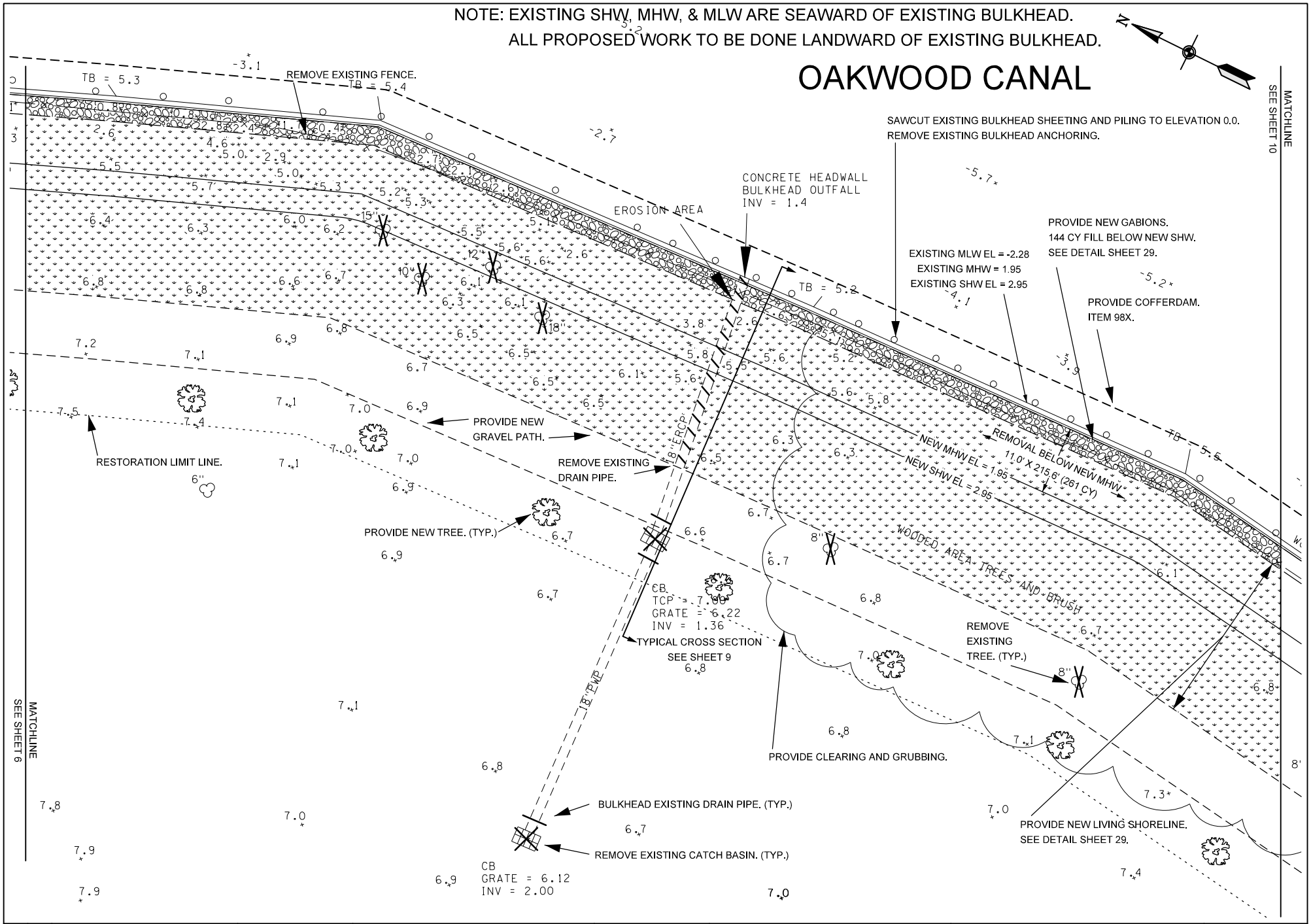
BALDWIN HARBOR PARK CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 7 of 30

NOTE: EXISTING SHW, MHW, & MLW ARE SEAWARD OF EXISTING BULKHEAD.
ALL PROPOSED WORK TO BE DONE LANDWARD OF EXISTING BULKHEAD.

OAKWOOD CANAL



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TOWN OF HEMPSTEAD, N.Y. FOUNDED 1644
Department of Engineering

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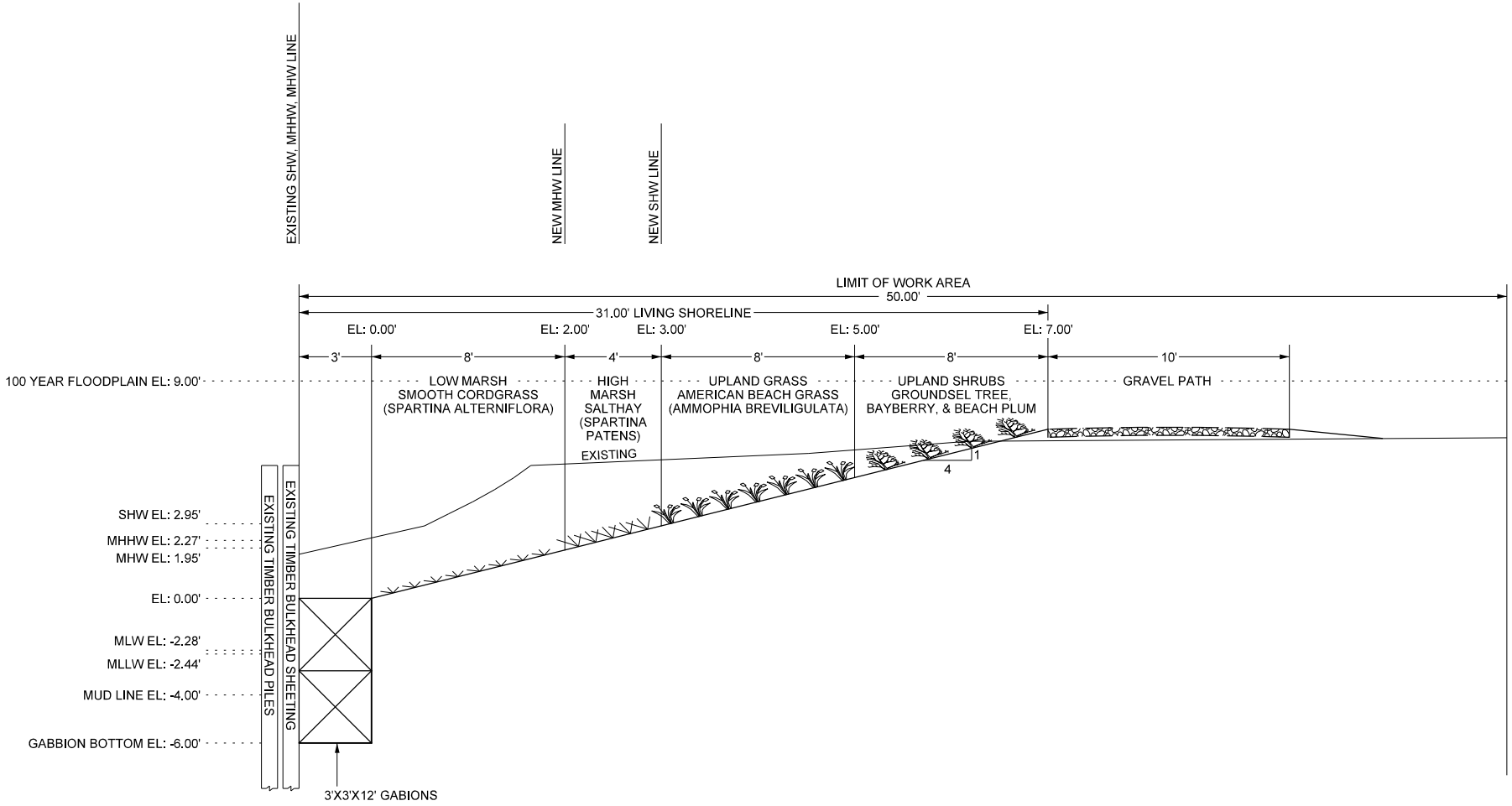
BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	NOV. 2018
File No.:	
Dwg No.:	
Sheet No.:	8 of 30



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Checked:	J.M.T.
Reviewed:	D.L.T.

TOWN OF HEMPSTEAD, N.Y. FOUNDED 1644
Department of Engineering

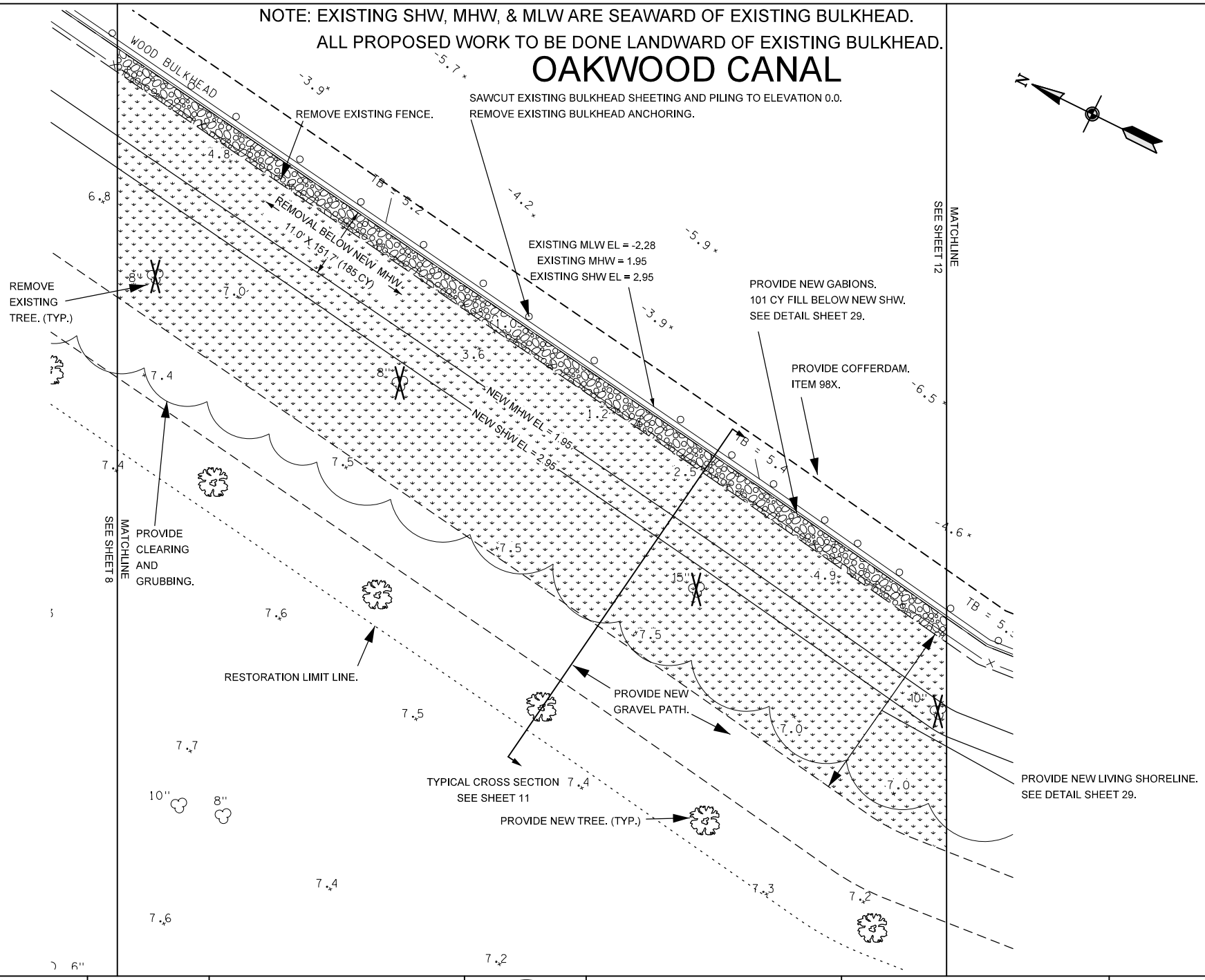
BALDWIN HARBOR PARK CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 9 of 30

NOTE: EXISTING SHW, MHW, & MLW ARE SEAWARD OF EXISTING BULKHEAD.
ALL PROPOSED WORK TO BE DONE LANDWARD OF EXISTING BULKHEAD.

OAKWOOD CANAL



NO.	DATE	REVISIONS

In Charge:	D.L.T.
Compilation:	J.M.T.
Design:	J.M.T.
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Checked:	J.M.T.
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TOWN OF HEMPSTEAD, N.Y. FOUNDED 1644
Department of Engineering

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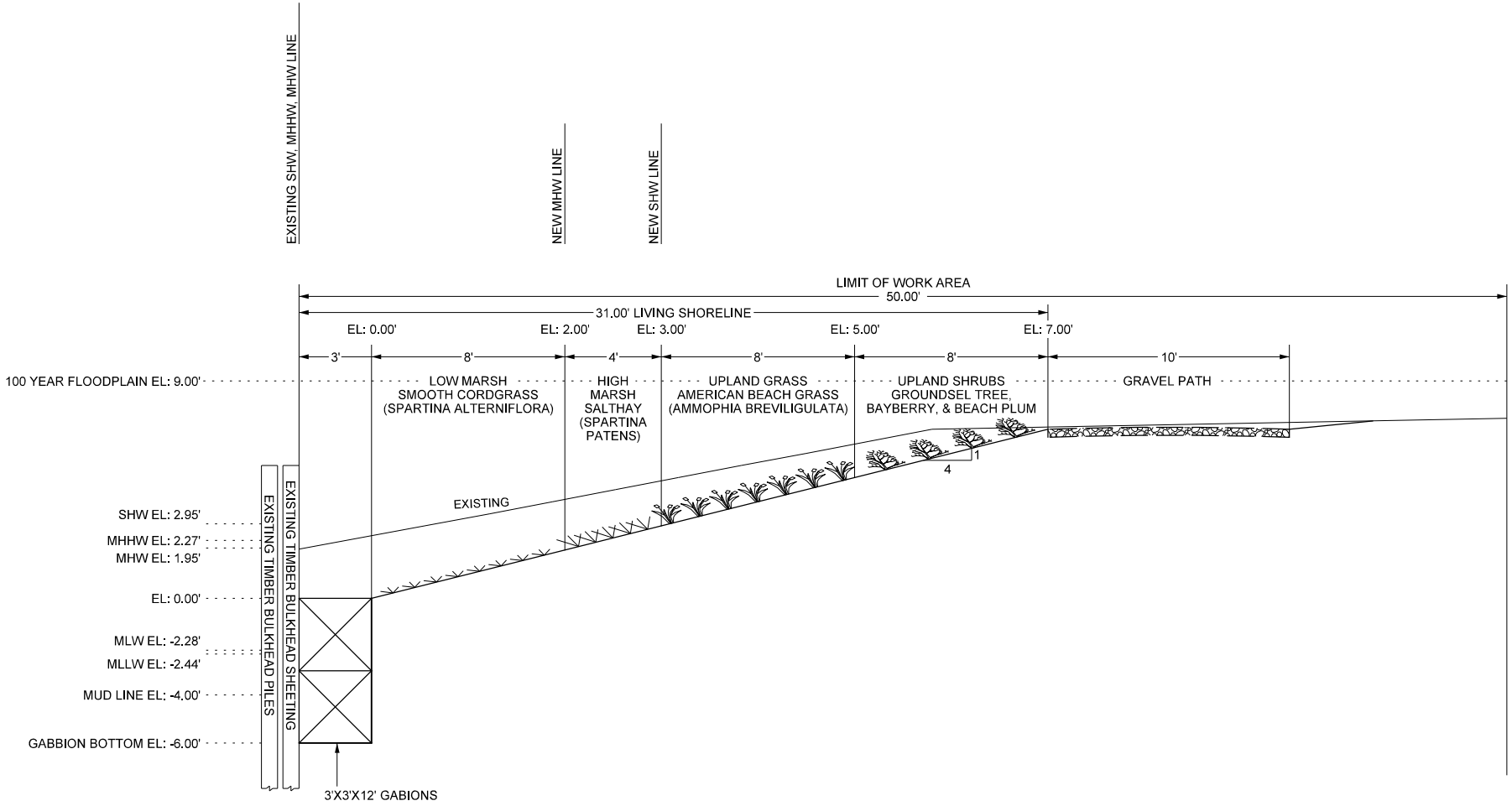
BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	NOV. 2018
File No.:	
Dwg No.:	
Sheet No.:	10 of 30



NO.	DATE	REVISIONS

In Charge:	D.L.T.
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TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
Department of Engineering

BALDWIN HARBOR PARK CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 11 of 30

NOTE: EXISTING SHW, MHW, & MLW ARE SEAWARD OF EXISTING BULKHEAD.
ALL PROPOSED WORK TO BE DONE LANDWARD OF EXISTING BULKHEAD.

OAKWOOD CANAL

MATCHLINE SEE SHEET 14

MATCHLINE SEE SHEET 10

EXISTING MLW EL = -2.28
EXISTING MHW = 1.95
EXISTING SHW EL = 2.95

SAWCUT EXISTING BULKHEAD SHEETING AND PILING TO ELEVATION 0.0.
REMOVE EXISTING BULKHEAD ANCHORING.

PROVIDE NEW GABIONS.
141 CY FILL BELOW NEW SHW.
SEE DETAIL SHEET 29.

PROVIDE COFFERDAM.
ITEM 98X.

REMOVAL BELOW NEW MHW
110' X 211.7' (258 CY)
NEW MHW EL = 1.95
NEW SHW EL = 2.95

APPROX LOCATION
BULKHEAD OUTFALL
INV = 1.38

PROVIDE CLEARING AND GRUBBING.

REMOVE EXISTING FENCE.

REMOVE EXISTING TREE. (TYP.)

NOT FOUND

BULKHEAD EXISTING DRAIN PIPE. (TYP.)

REMOVE EXISTING DRAIN PIPE.

TYPICAL CROSS SECTION
SEE SHEET 3

CB
TCP = 6.61
GRATE = 5.90
BOTTOM = 1.6
PLUGGED

PROVIDE NEW LIVING SHORELINE.
SEE DETAIL SHEET 29.

PROVIDE NEW GRAVEL PATH.

REMOVE EXISTING CATCH BASIN. (TYP.)

PROVIDE NEW TREE. (TYP.)

RESTORATION LIMIT LINE.

GRASS

NO.	DATE	REVISIONS

In Charge:	D.L.T.
Compilation:	J.M.T.
Design:	J.M.T.
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Checked:	J.M.T.
Reviewed:	D.L.T.

TOWN OF HEMPSTEAD, N.Y. FOUNDED 1644
Department of Engineering

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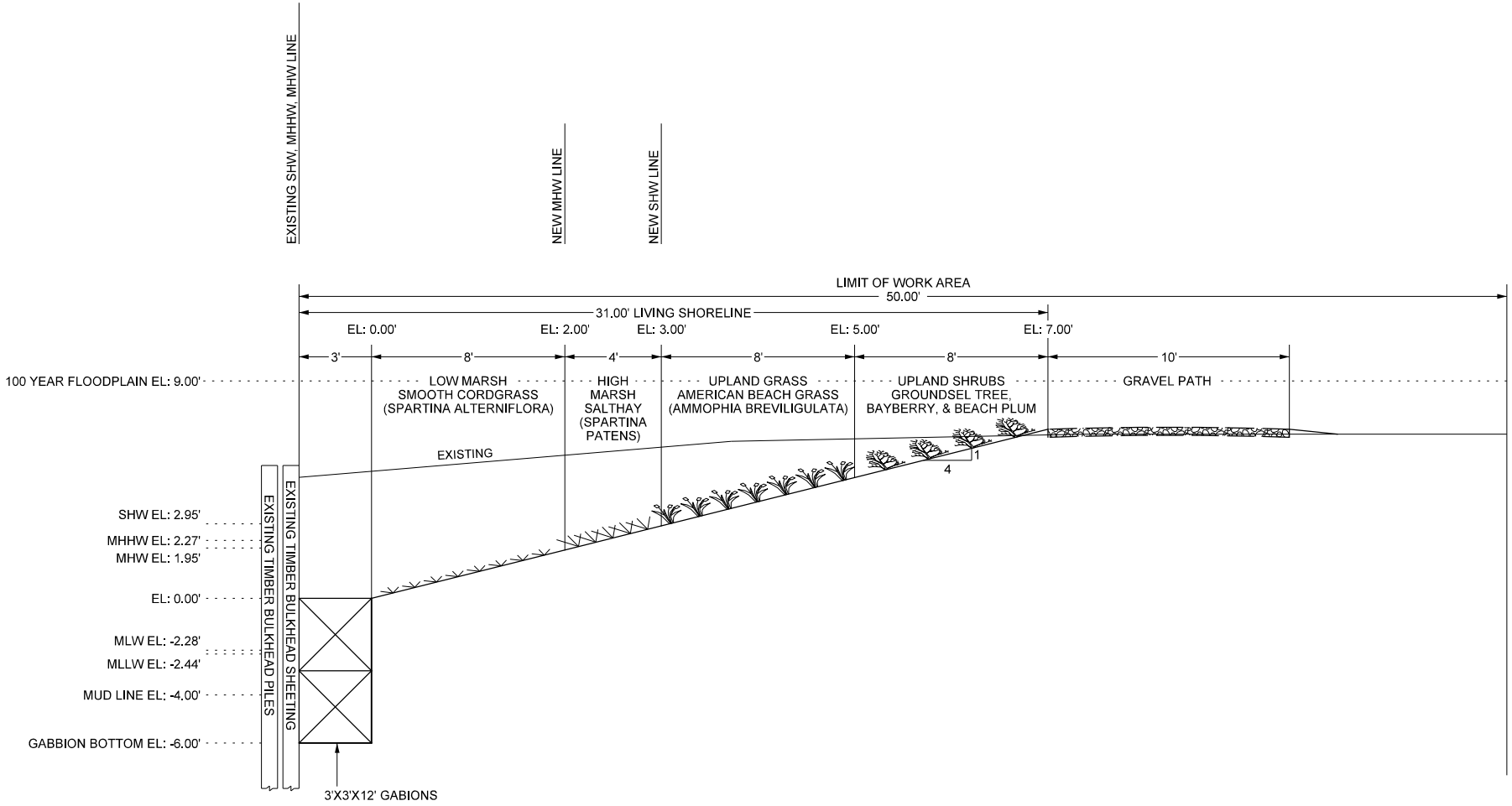
BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	NOV. 2018
File No.:	
Dwg No.:	
Sheet No.:	12 of 30



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TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
Department of Engineering

BALDWIN HARBOR PARK CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 13 of 30

NOTE: EXISTING SHW, MHW, & MLW ARE SEAWARD OF EXISTING BULKHEAD.
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OAKWOOD CANAL

SAWCUT EXISTING BULKHEAD SHEETING AND PILING TO ELEVATION 0.0.
REMOVE EXISTING BULKHEAD ANCHORING.

EXISTING MLW EL = -2.28
EXISTING MHW = 1.95
EXISTING SHW EL = 2.95

APPROX LOCATION
BULKHEAD OUTFALL
INV = 2.50

REMOVE EXISTING FENCE.

TB = 5.3

REMOVAL BELOW NEW MHW
11.0' X 214.0' (261 CY)

NEW MHW EL = 1.95

NEW SHW EL = 2.95

PROVIDE NEW GABIONS.
143 CY FILL BELOW NEW SHW.
SEE DETAIL SHEET 29.

PROVIDE COFFERDAM.
ITEM 98X.

PROVIDE NEW LIVING SHORELINE.
SEE DETAIL SHEET 29.

MATCHLINE
SEE SHEET 16

WOOD BULKH

WOODED AREA TREES AND BRUSH

REMOVE EXISTING
DRAIN PIPE.

18" RCP

PROVIDE NEW
GRAVEL PATH.

REMOVE
EXISTING
TREE. (TYP.)

BULKHEAD EXISTING
DRAIN PIPE.

CB
GRATE = 5.85

TYPICAL CROSS SECTION
SEE SHEET 15

RESTORATION LIMIT LINE.

PROVIDE
CLEARING
AND
GRUBBING.

REMOVE EXISTING CATCH BASIN.

PROVIDE NEW TREE. (TYP.)

MATCHLINE
SEE SHEET 12

NO.	DATE	REVISIONS

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TOWN OF HEMPSTEAD, N.Y. FOUNDED 1644
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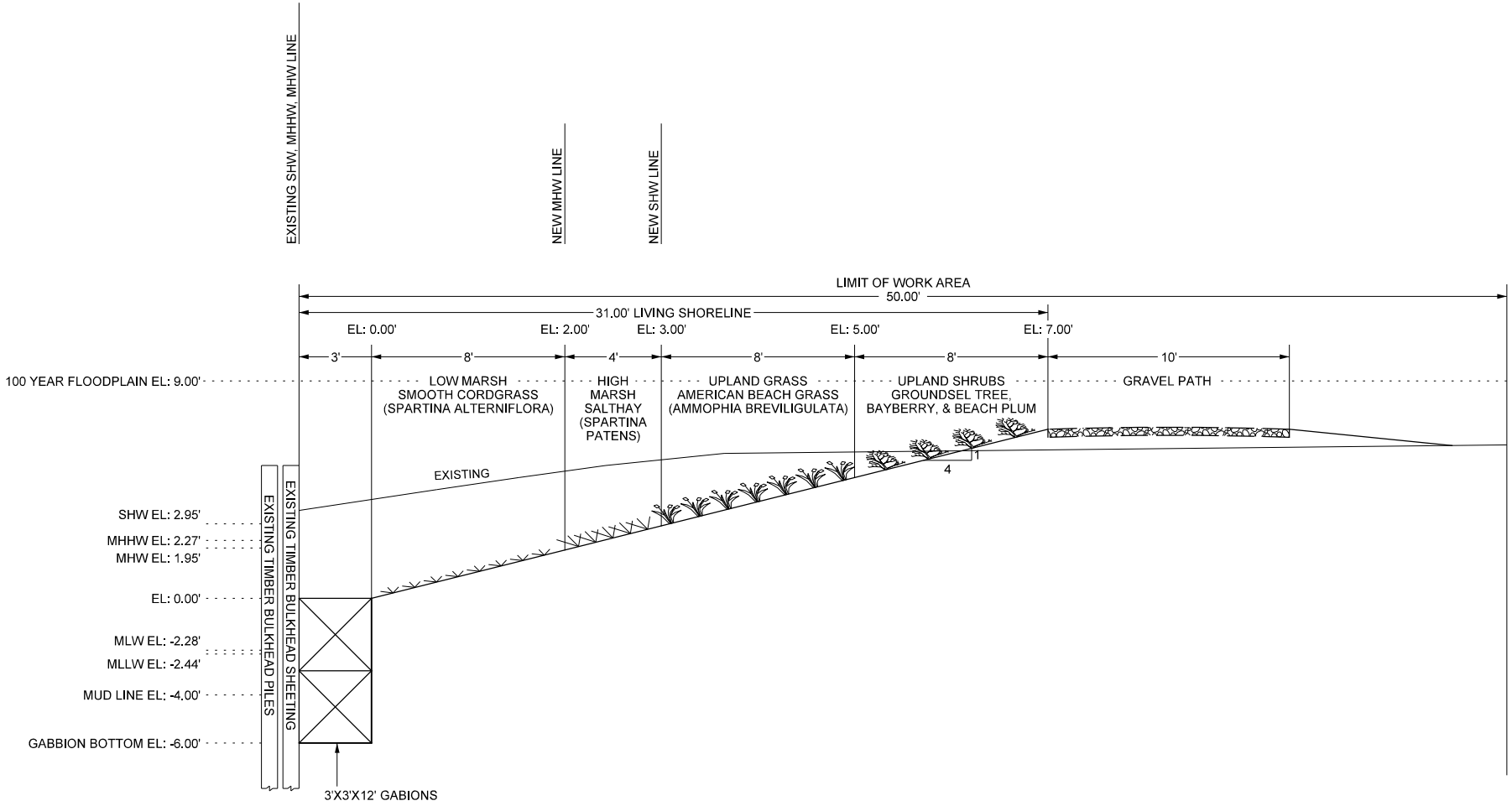
BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	NOV. 2018
File No.:	
Dwg No.:	
Sheet No.:	14 of 30



NO.	DATE	REVISIONS

In Charge:	D.L.T.
Compilation:	J.M.T.
Design:	J.M.T.
Drawn:	J.M.T.
Checked:	J.M.T.
Reviewed:	D.L.T.

TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
Department of Engineering

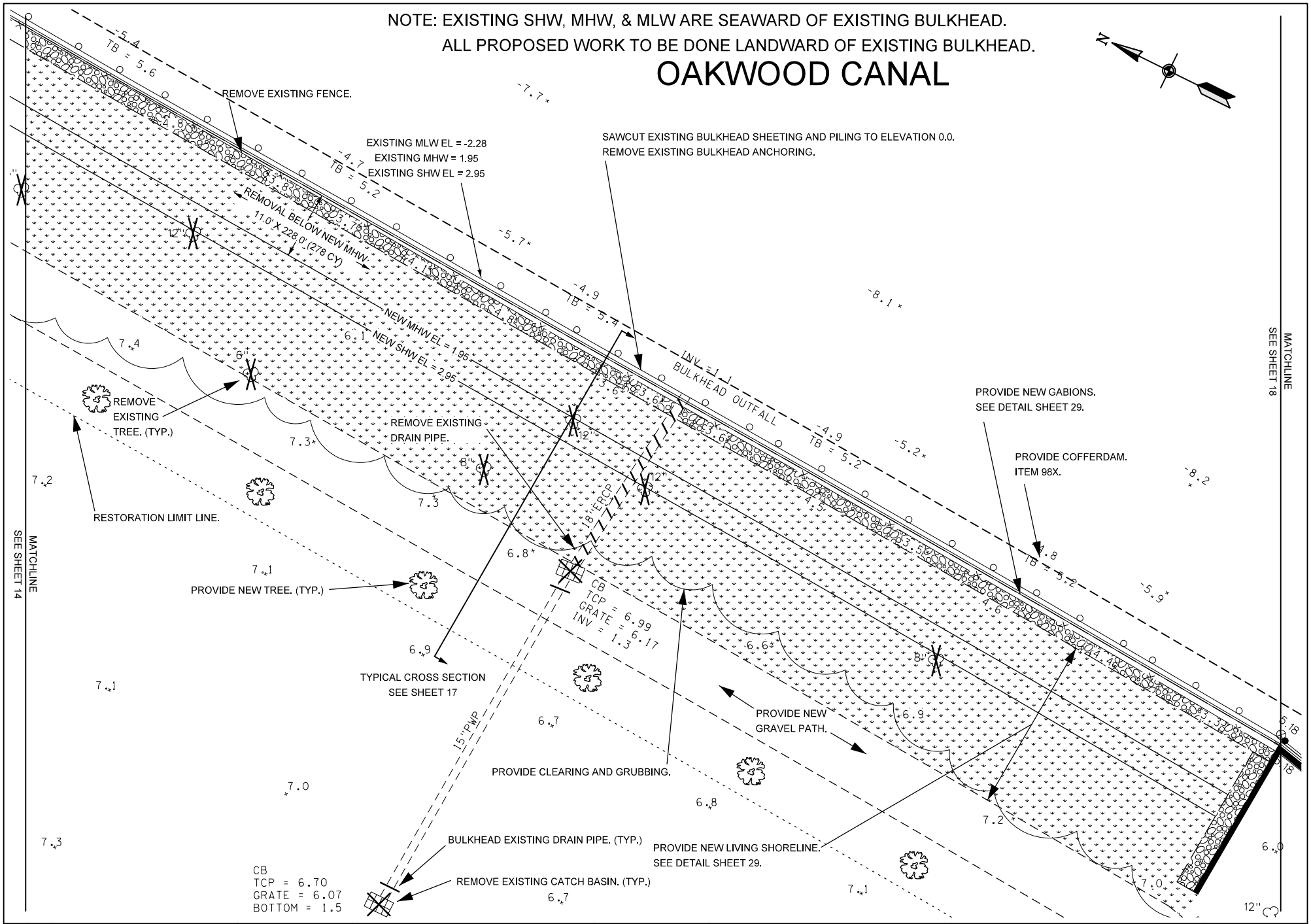
BALDWIN HARBOR PARK CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 15 of 30

NOTE: EXISTING SHW, MHW, & MLW ARE SEAWARD OF EXISTING BULKHEAD.
ALL PROPOSED WORK TO BE DONE LANDWARD OF EXISTING BULKHEAD.

OAKWOOD CANAL



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TOWN OF HEMPSTEAD, N.Y. FOUNDED 1644
Department of Engineering

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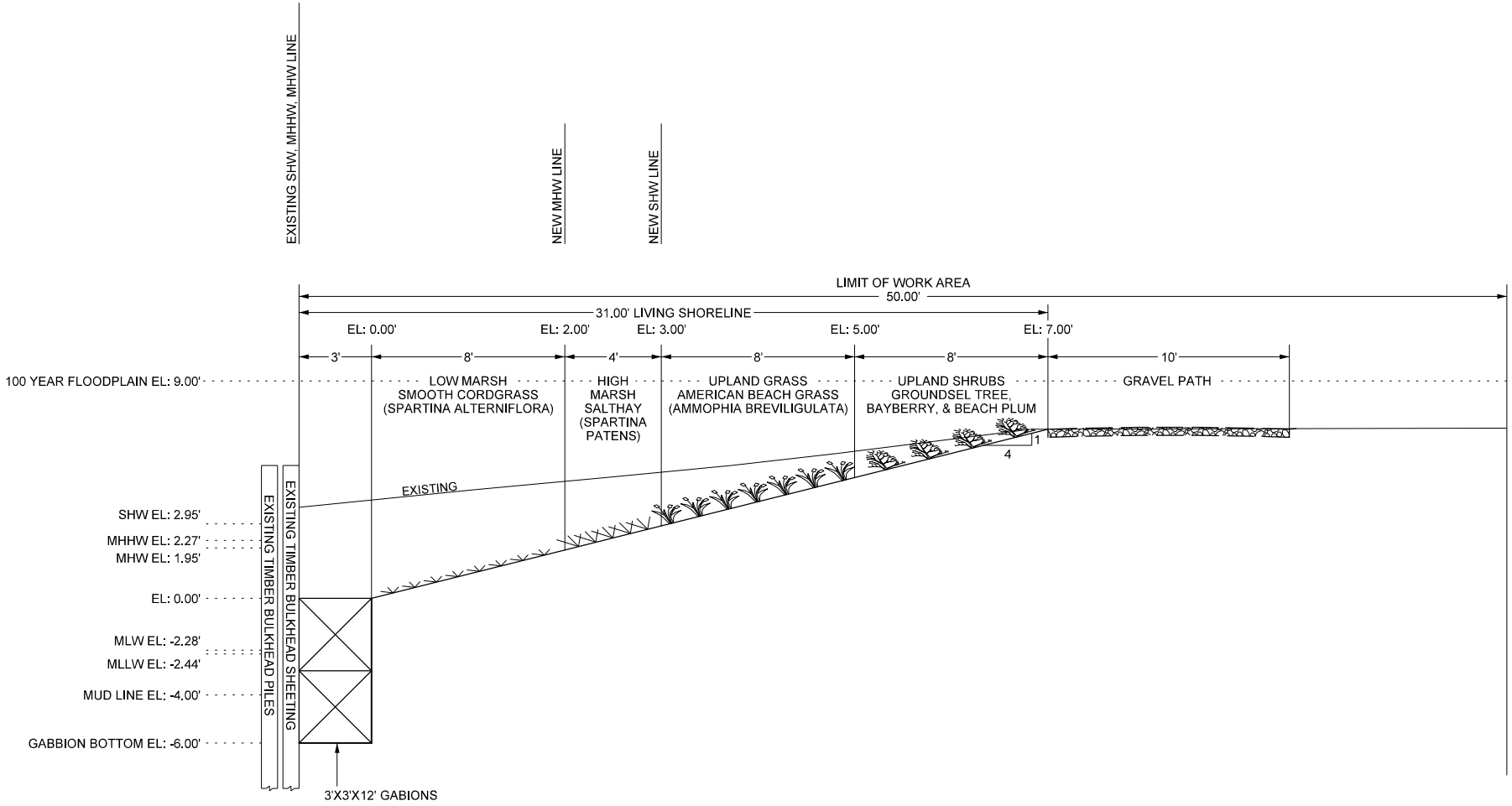
BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	NOV. 2018
File No.:	
Dwg No.:	
Sheet No.:	16 of 30



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TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
Department of Engineering

BALDWIN HARBOR PARK CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
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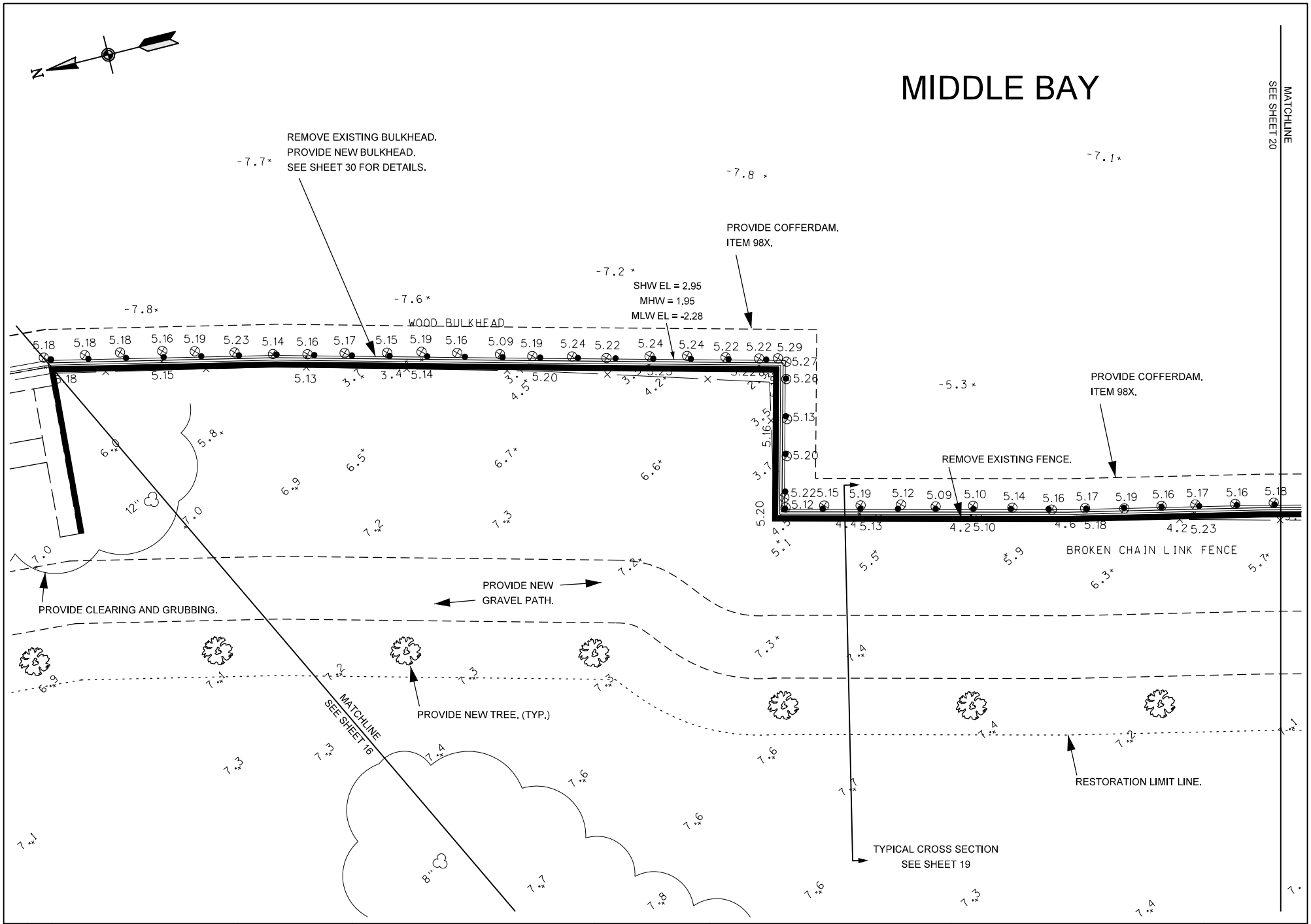
Dwg No.:
Sheet No.: 17 of 30



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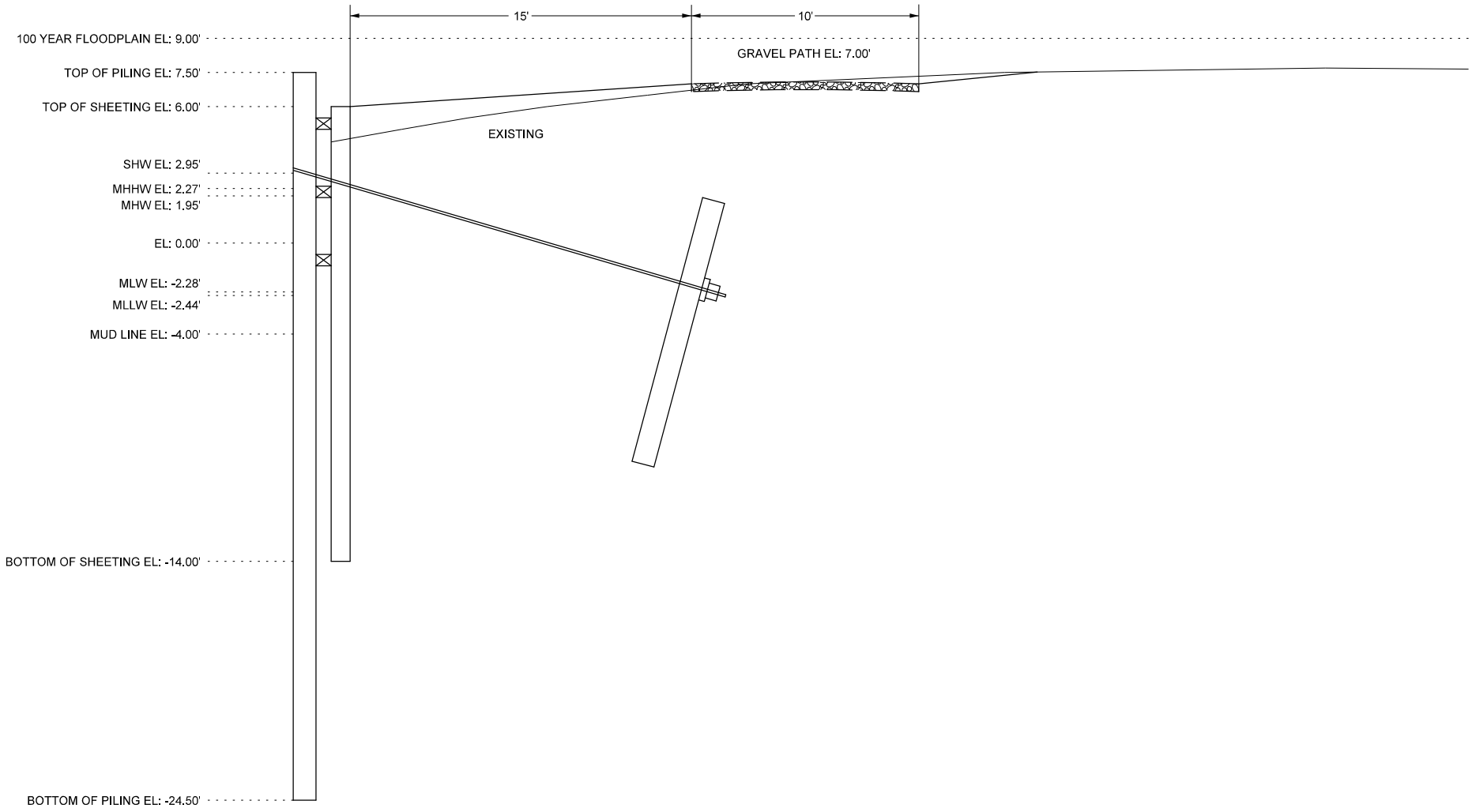
BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 18 of 30



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TOWN OF HEMPSTEAD N.Y. FOUNDED 1644

Department of Engineering

BALDWIN HARBOR CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 19 of 30

MIDDLE BAY

MATCHLINE SEE SHEET 18

MATCHLINE SEE SHEET 22

REMOVE EXISTING BULKHEAD.
PROVIDE NEW BULKHEAD.
SEE SHEET 30 FOR DETAILS.

CONCRETE HEADWALL
BULKHEAD OUTFALL
INV = 2.12

PROVIDE COFFERDAM.
ITEM 98X.

REMOVE EXISTING FENCE.

SHW EL = 2.95
MHW = 1.95
MLW EL = -2.28

15"ERCP

PROVIDE NEW
GRAVEL PATH.

CB
TCP = 7.58
GRATE = 6.93
BOTTOM = 2.3

RESTORATION LIMIT LINE.

REMOVE EXISTING CATCH BASIN. (TYP.)

PROVIDE NEW TREE. (TYP.)

CB
TCP = 7.69
GRATE = 6.94
INV = 2.5

TYPICAL CROSS SECTION
SEE SHEET 21

BULKHEAD EXISTING DRAIN PIPE. (TYP.)

15"PWP

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TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
Department of Engineering

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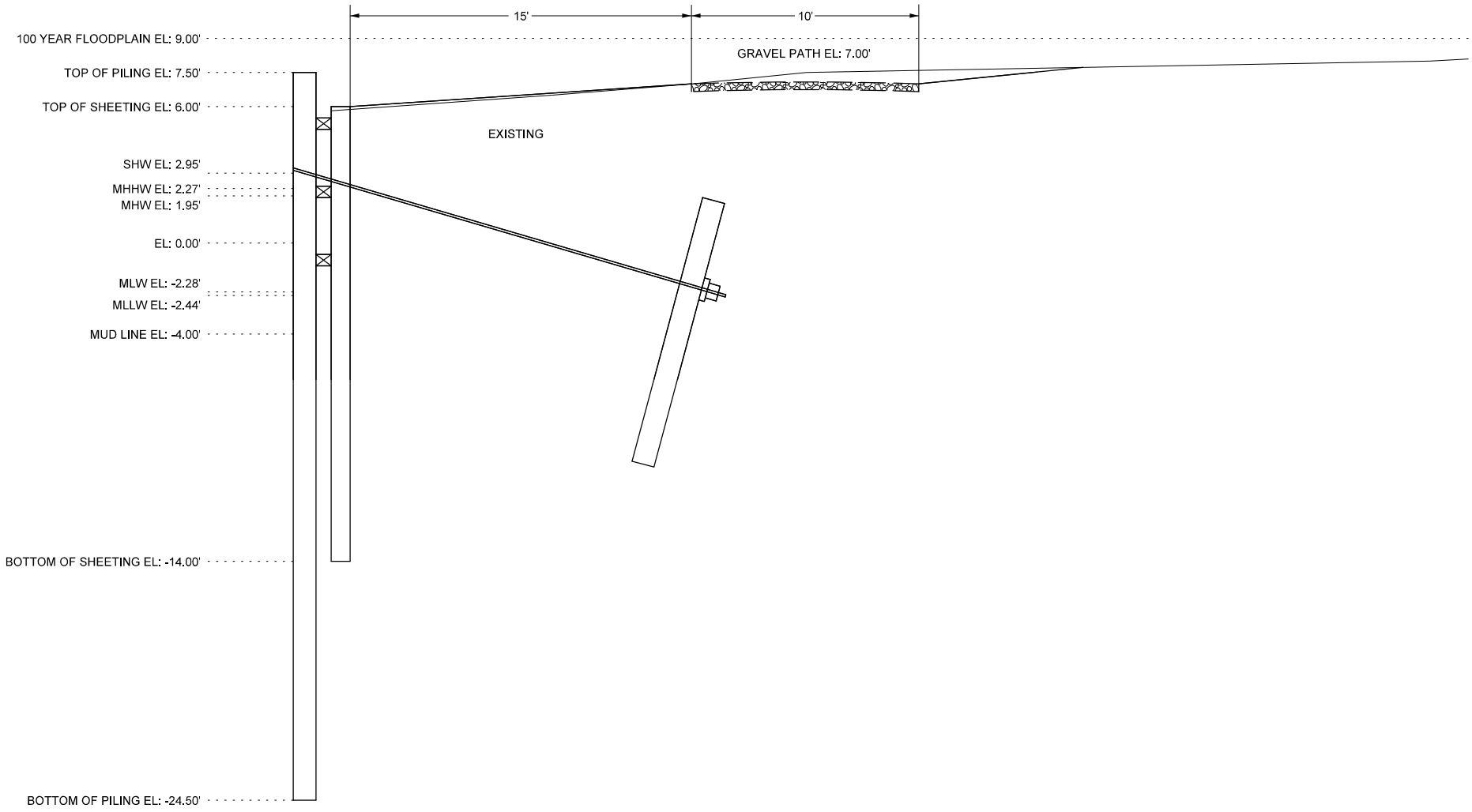
BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 20 of 30



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TOWN OF HEMPSTEAD N.Y. FOUNDED 1644

Department of Engineering

BALDWIN HARBOR CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

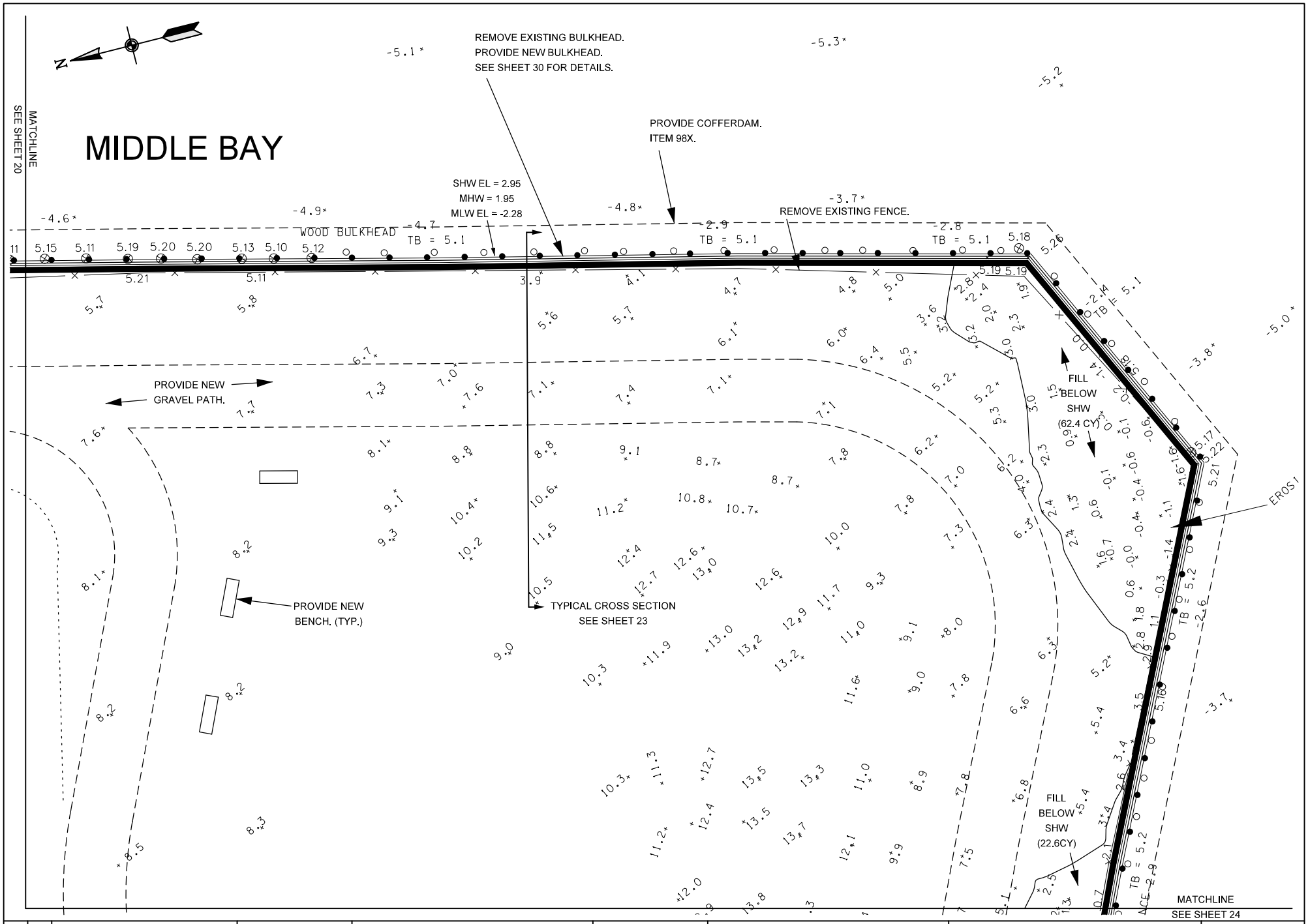
Scale: NONE

Date: NOV. 2018

File No.:

Dwg No.:

Sheet No.: 21 of 30



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BALDWIN, N.Y.

Scale: 1" = 20'
Date: NOV. 2018
File No.:
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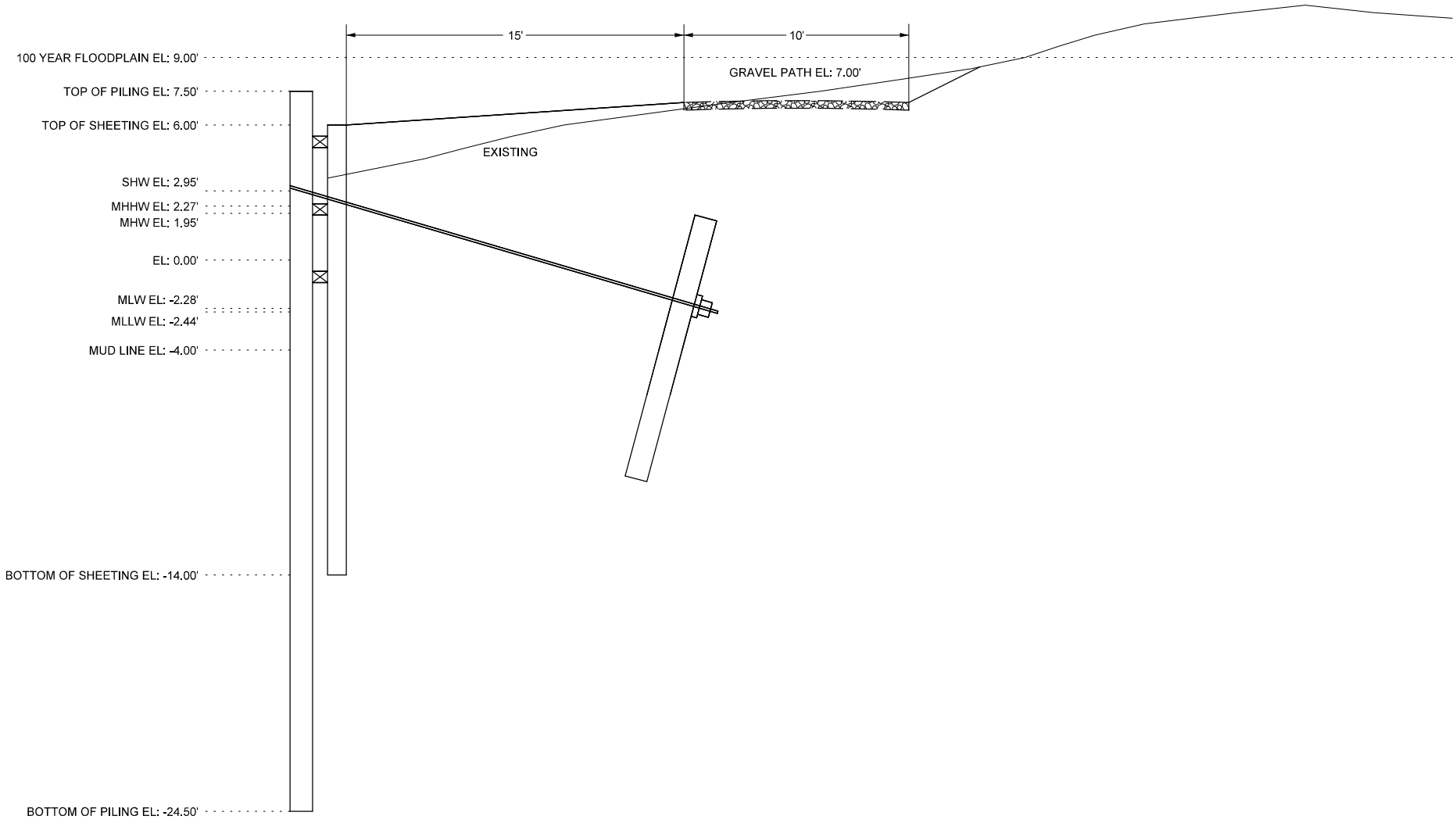
Sheet No.: 22 of 30



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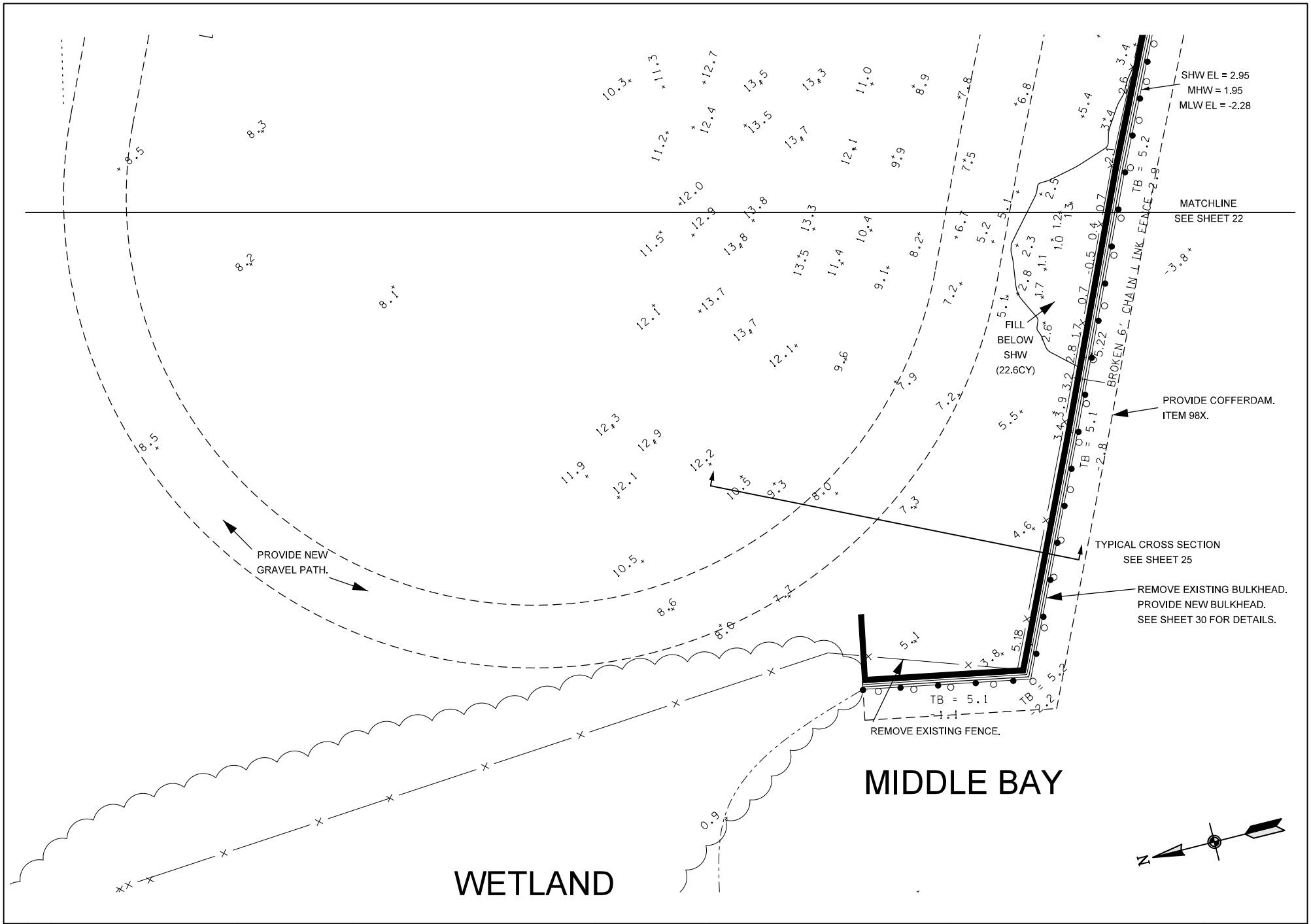
Department of Engineering

BALDWIN HARBOR CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
File No.:
Dwg No.:
Sheet No.: 23 of 30



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BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'
Date: NOV. 2018
File No.:
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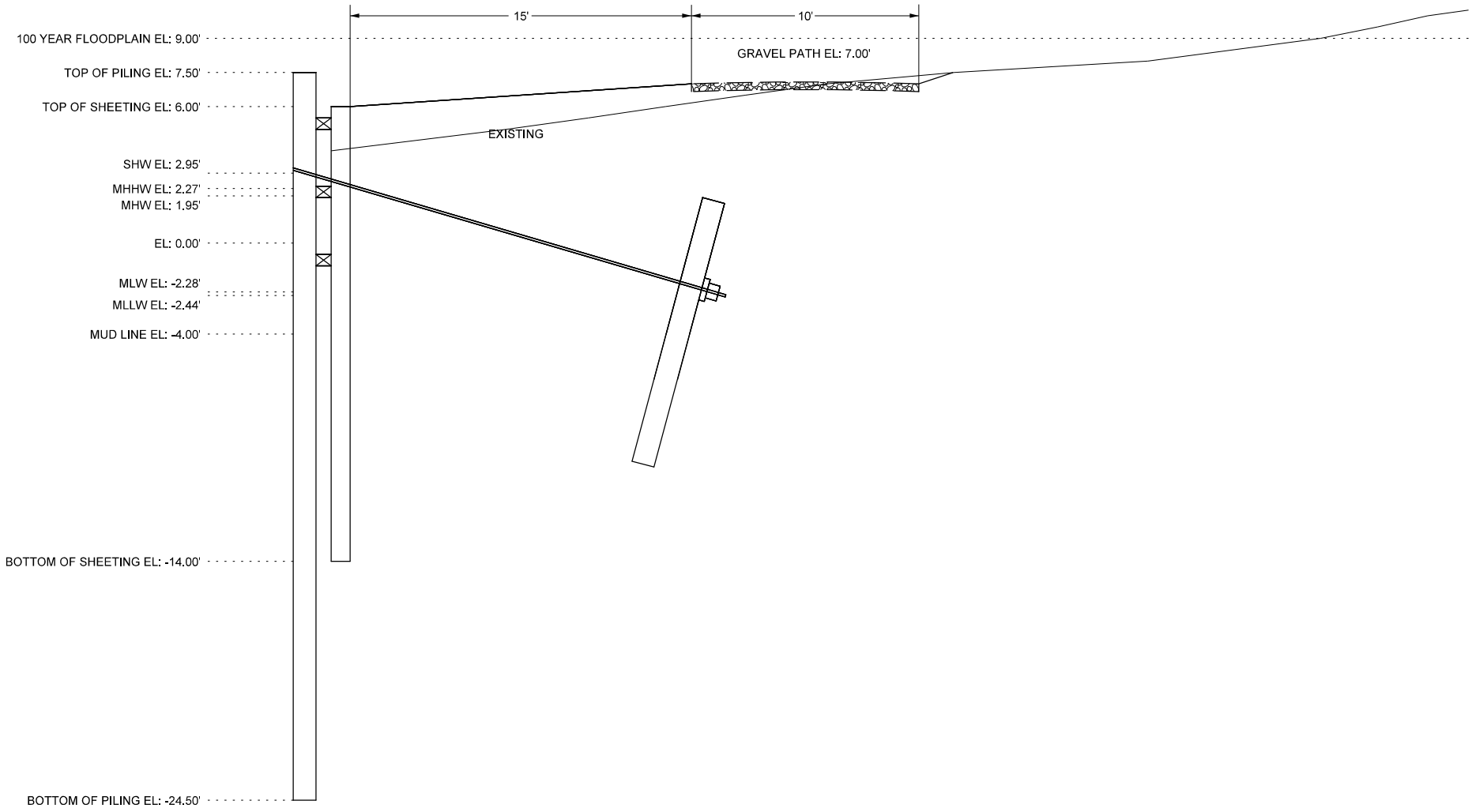

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Department of Engineering

BALDWIN HARBOR CROSS SECTION

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: NOV. 2018
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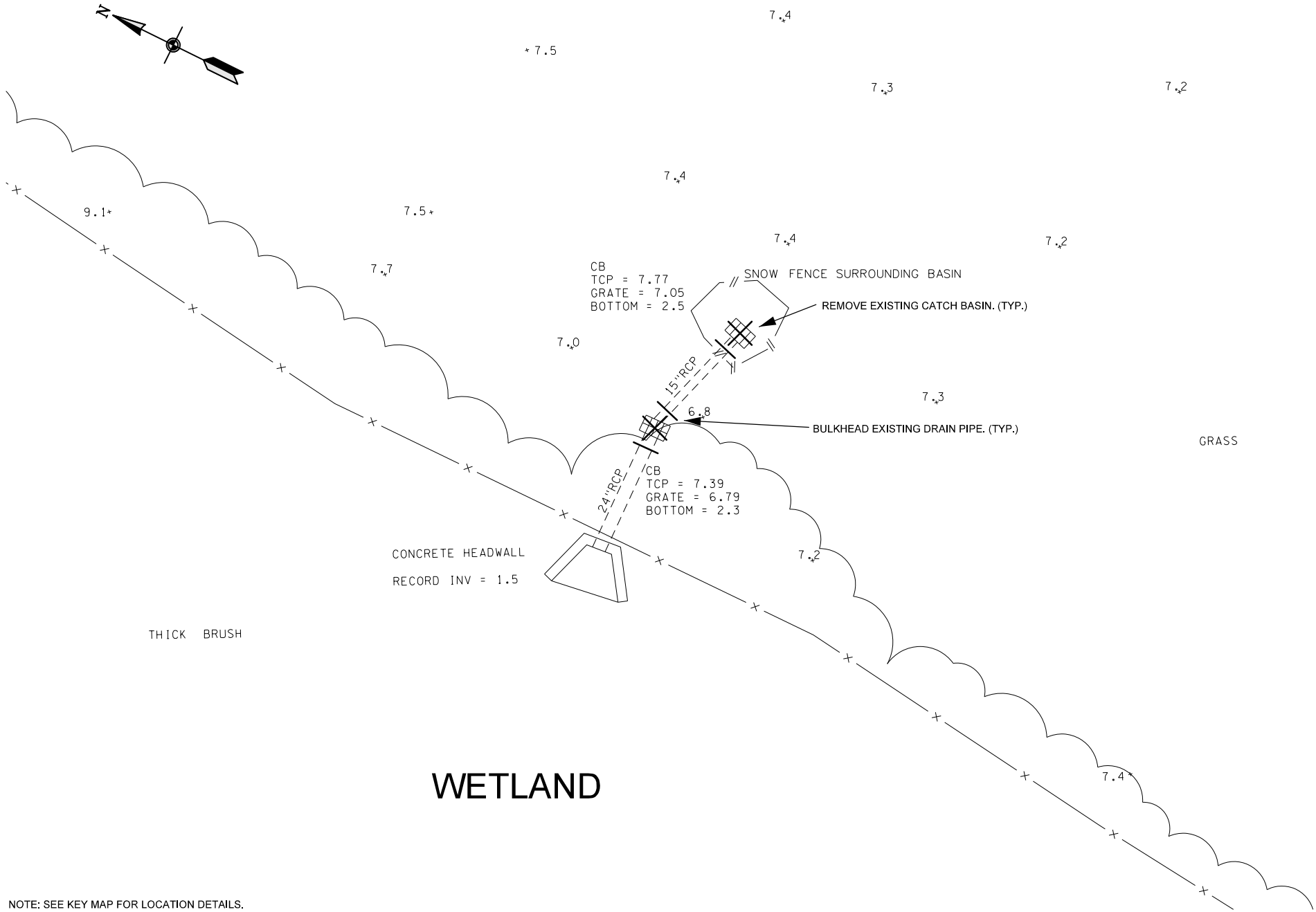

NOTE: SEE KEY MAP FOR LOCATION DETAILS.

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BALDWIN, N.Y.

Scale:	1" = 20'
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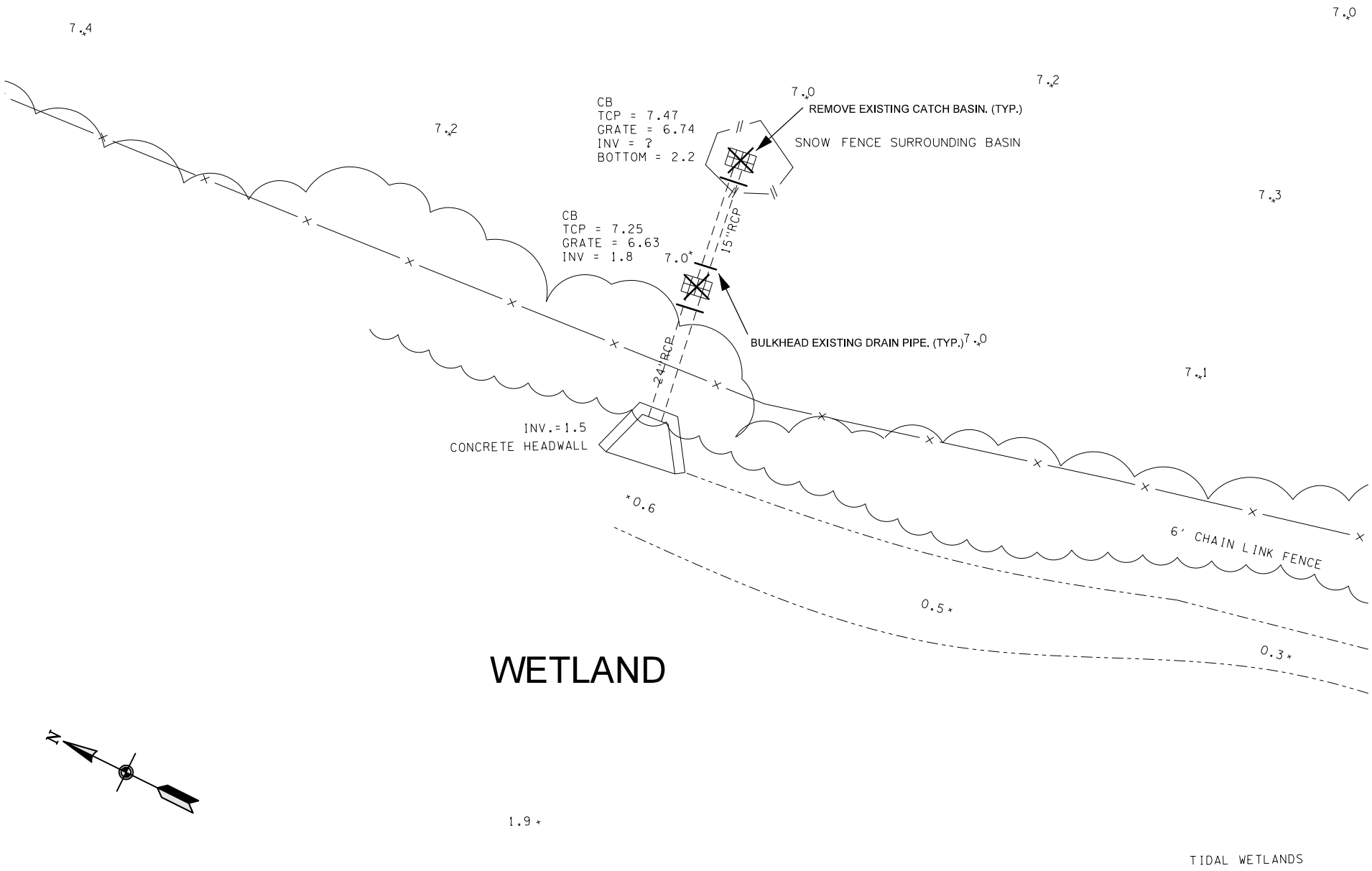

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BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
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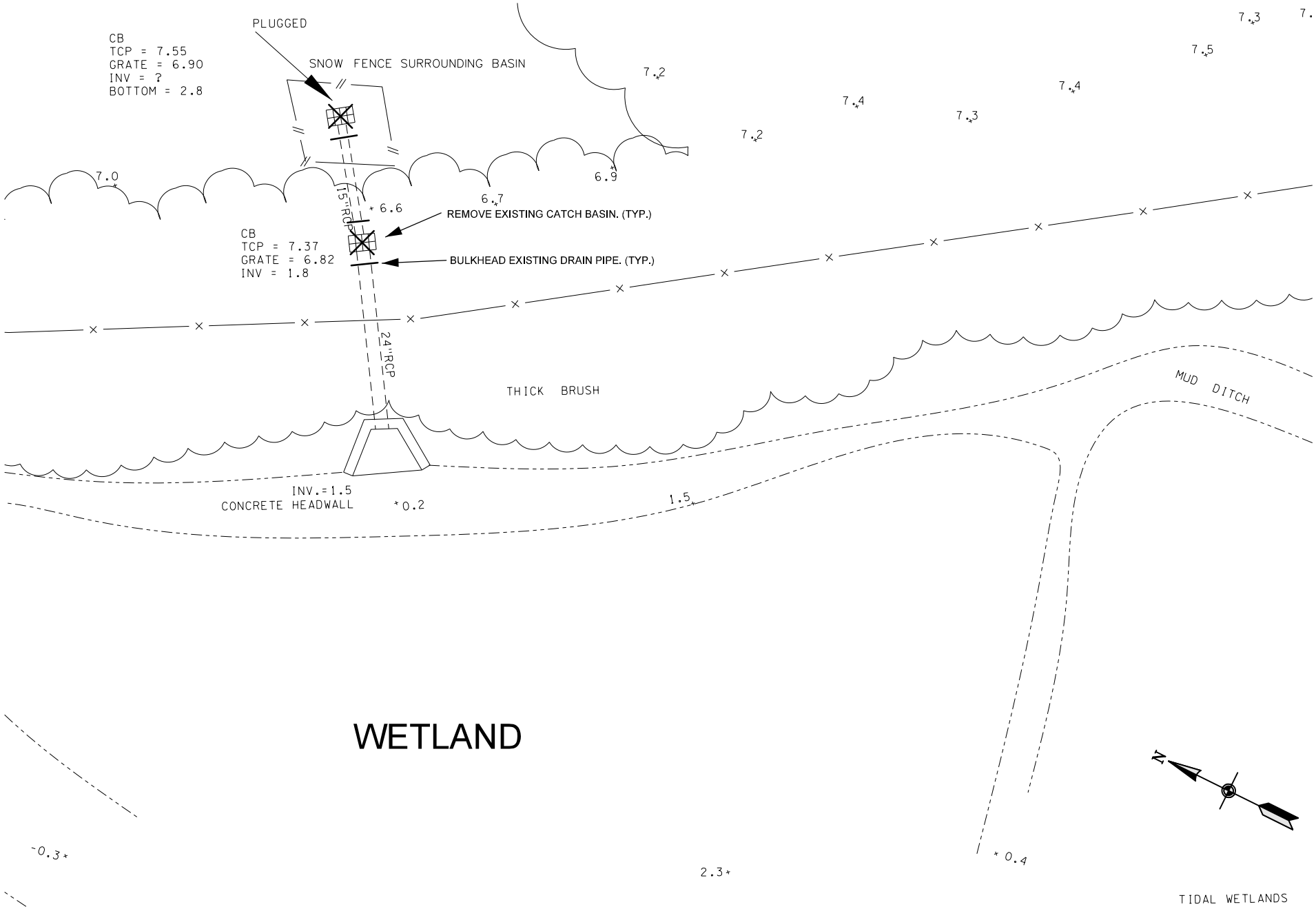

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BALDWIN, N.Y.

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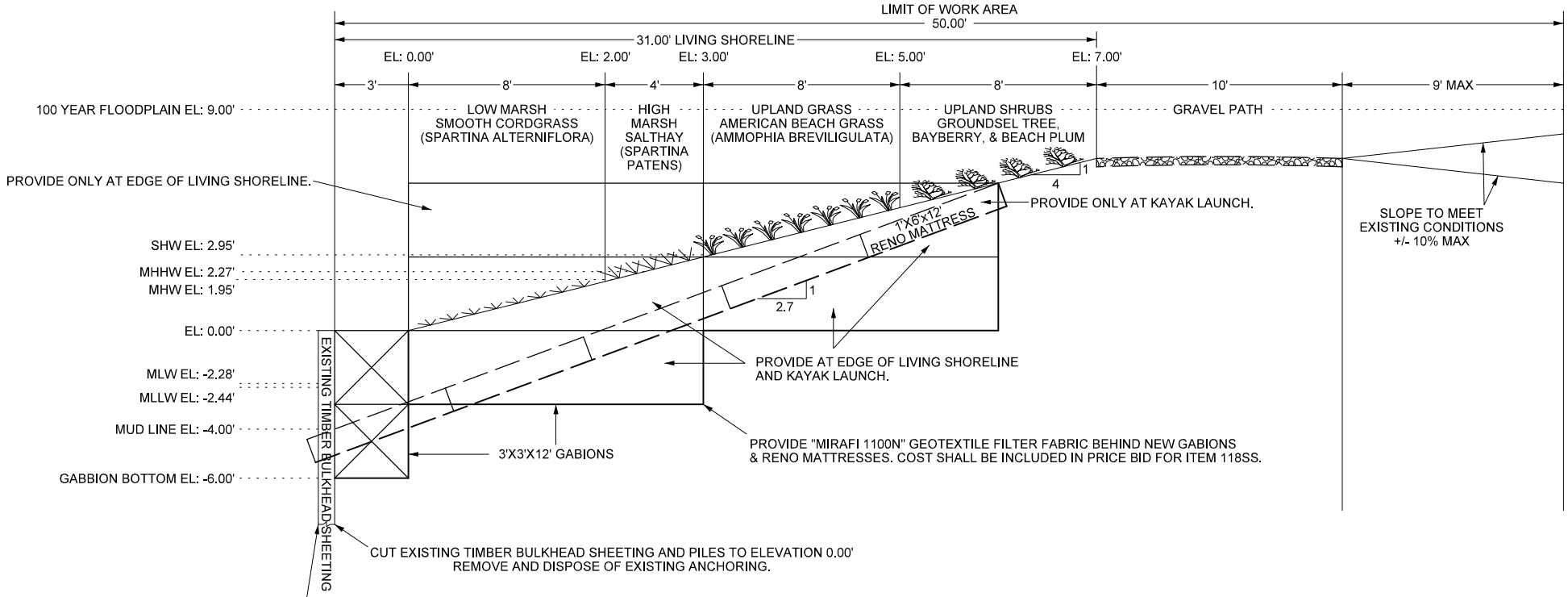

NOTE:
CONTRACTOR TO FURNISH, MAINTAIN, AND REMOVE COFFERDAMS AND DEWATERING EQUIPMENT.
THE SELECTION OF MATERIALS, THEIR ARRANGEMENT AND DETAILS SHALL BE THE CONTRACTORS OPTION AND RESPONSIBILITY.
ITEM 98X.

PLANTING SPECIFICATIONS

LOW MARSH:
Smooth Cordgrass (Spartina Alteriflora)
All plants to be Nursery Grown in 2" Peat pots, planted on 18" centers. Stagger rows.

HIGH MARSH:
Saltmeadow Cordgrass (Spartina Patens)
All plants to be Nursery Grown in 2" Peat pots, planted on 18" centers. Stagger rows.

UPLAND GRASS:
American Beachgrass (Ammonphila Breviligulata)
Install on 18" centers. 3 culms/planting unit. Stagger rows.
Fertilize in early spring. 30lbs inorganic nitrogen/acre.

UPLAND SHRUBS:
Groudsel Tree (Baccharis Hamlimifolia)
Bayberry (Myrica Pennsylvanica)
Beach Plum (Prunus Maritima)
All plants to be Nursery Grown, 2 Gallon Minimum. Install on 6' centers.
Fertilize with 1 tablespoon of Osmocote 18-6-12 per planting hole.

NOTE:
Smooth Cordgrass plantings to be installed prior to Saltmeadow Cordgrass plantings to prevent disturbence.
Saltmeadow Cordgrass plantings to be installed prior to upland plantings to prevent disturbence.
All plant installation and seeding to occur between March 15 and May 15 or September 15 to October 15.

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TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
Department of Engineering

LIVING SHORELINE DETAIL

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
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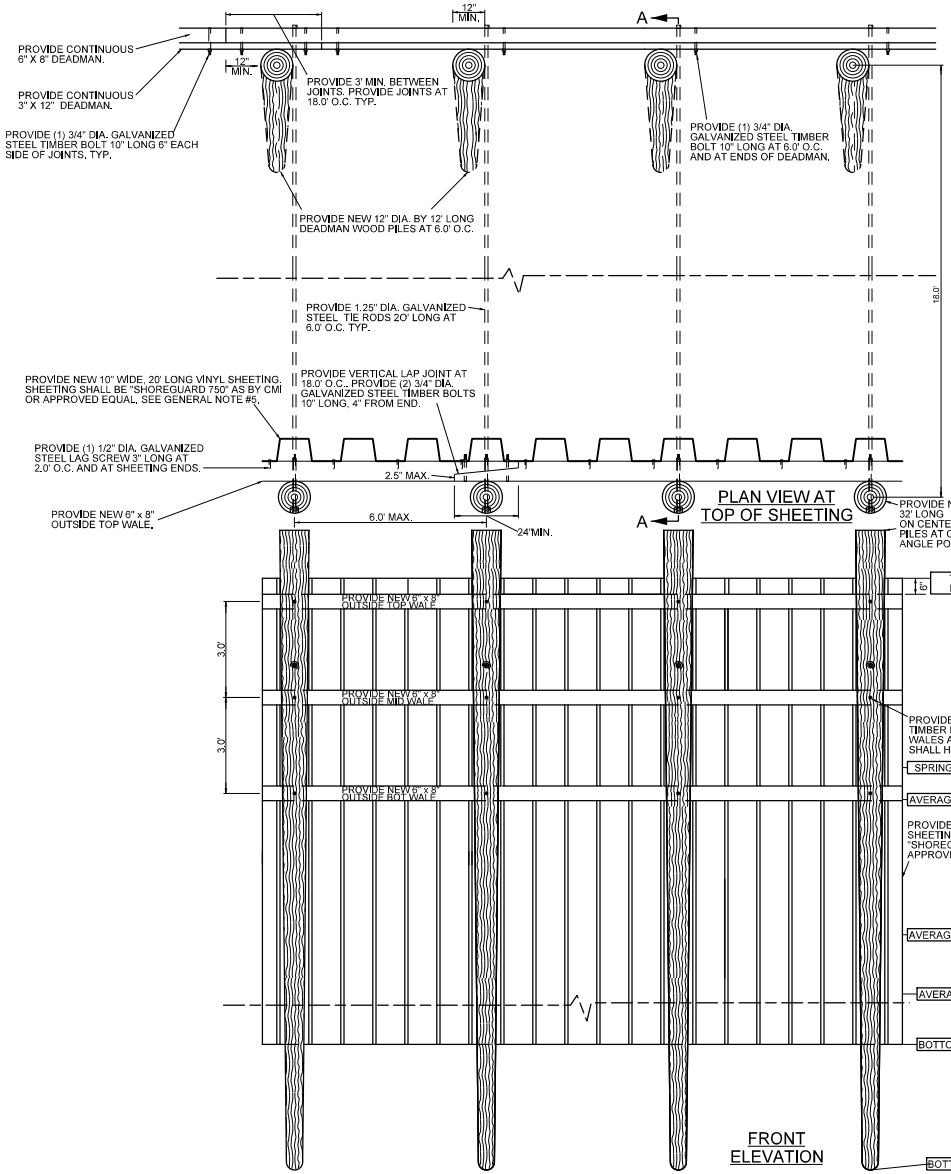

ITEM 204X GENERAL NOTES:

1. ALL LUMBER AND TIMBER SIZES INDICATED ARE NOMINAL. ALL DIMENSIONS INDICATED ARE FINISHED.
2. ALL LUMBER AND TIMBER SHALL BE CCA AND PRESSURE TREATED TO OBTAIN A MINIMUM RETENTION OF 2.5 LBS/CF.
3. NEW RETURNS AND CONNECTIONS TO EXISTING BULKHEADS AT LIMITS OF NEW BULKHEAD SHALL BE DETERMINED IN FIELD A.O.B.E.
4. EXISTING BULKHEADS AND EXISTING BULKHEAD ANCHORING COMPONENTS SHALL BE COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 204X.
5. SEE PLANS FOR NEW TOP OF SHEETING ELEVATIONS, NEW SHEETING LENGTHS AND NEW PILE LENGTHS.
6. ALL TIMBER AND CARRIAGE BOLTS SHALL BE PROVIDED WITH ONE N.Y.D.D.WASHER AND NUT AT END.
7. ALL LAG SCREWS SHALL BE PROVIDED WITH ONE N.Y.D.D.WASHER AT HEAD END.
8. ALL TIE RODS SHALL BE PROVIDED WITH TWO N.Y.D.D.WASHERS AND NUTS AT EACH END.
9. ALL BOLTS AND TIE RODS SHALL BE CUT FLUSH AT NUT END WHERE SHOWN AND WHERE NECESSARY TO INSTALL NEW BULKHEAD COMPONENTS.
10. ALL TIE RODS SHALL BE CUT FLUSH AT FRONT OF PILES. NUTS AND WASHERS SHALL BE COUNTERSUNK.
11. ALL HARDWARE AND FASTENERS SHALL BE GALVANIZED STEEL UNLESS OTHERWISE SHOWN AND MEET N.C.D.P.W SPECIFICATIONS.
12. ALL OPENINGS IN NEW SHEETING FOR TIE RODS SHALL BE LIMITED IN SIZE AS FOLLOWS: THRU WALL DIMENSION PLUS ONE INCH.

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Department of Engineering

BULKHEAD DETAIL

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
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File No.:
Dwg No.:
Sheet No.: 30 of 30

Appendix E: State Historic Preservation Office Correspondence

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

ANDREW M. CUOMO
Governor

ROSE HARVEY
Commissioner

December 7, 2018

James McAllister
Governor's Office of Storm Recovery
500 Bi-County Boulevard
Farmingdale, NY 11735

Re: HTF/ GOSR/ HUD CDBG-DR/ Storm resiliency:
Baldwin Park Shoreline Stabilization
Hempstead/ Nassau County
18PR07551

Dear Mr. McAllister:

Thank you for requesting the comments of the New York State Historic Preservation Office (SHPO). We have reviewed the submitted materials in accordance with Title 54, Section 306108 of the National Historic Preservation Act of 1966. These comments are those of the SHPO and relate only to Historic/ Cultural resources. They do not include other environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the National Environmental Policy Act and/or the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8).

Based on this review, it is the opinion of SHPO that there will be No Historic Properties Affected by the proposed undertaking.

If I can be of further assistance, contact me at (518) 268-2187 or Larry.moss@parks.ny.gov

Sincerely,

L Moss

Larry K Moss, Historic Preservation Technical Specialist

CC: Cristy Boyd, CSA Group

Appendix F: Tribal Correspondence

Shinnecock Indian Nation
Cultural Resources Dept.
Shinnecock Indian Territory
P.O. Box 5006
Southampton, New York 11969-5006
Phone (631) 283-6143 Fax (631)283-0751

Shinnecock Nation Historic Preservation Office
Shinnecock Reservation, Southampton, NY 11969
THPO Officer: David Martine
Email: davidmartine@shinnecock.org
Phone: (631)-287-6931

This form along with any supporting information must be provided to the THPO of the Shinnecock Nation for any activities that involve ground-disturbing activities. The Shinnecock Nation THPO is to identify, evaluate and protect cultural, historic, and archeological resources by regulating undertaking upon protected lands when they may result in changes in the character of use of such cultural resources. Typically, the applicant will receive a letter or an executed copy of this form documenting the Nation's approval of your application. The applicant must address each comment that is applicable to that entity. Use additional pages if necessary. Please allow for two (2) weeks from the date it was received for response from the THPO Officer.

REQUEST FORM

Applicant name/Mailing Address: Governor's Office of Storm Recovery 500 Bi-County Boulevard, Suite 300, Farmingdale, N.Y. 11735

Contact Agent: James McAllister

Phone number: (631) 465-9677

Date of Request: 1/10/2019 Date Activity is Scheduled to begin: June 2019

LOCATION OF PROPOSED PROJECT: *attach map. Include ownership status of land (Tribal/State/Private/other*	Town of Hempstead's Baldwin Park located at 3232 Grand Avenue, Baldwin, New York.	
LOCATION DESCRIPTION: address or location description	The Proposed Project site is situated within Section 54, Block H, Lot 391, a 14.6-acre parcel formerly occupied by a Board of Cooperative Education Services (BOCES) Facility (see **Attachment 1, Project Location Maps**).	

Acres: (Approximate) Less than 2 acres.	**Estimated number of Monitors requested ($500 per day; up to 3 participants; federal per/diem rates):** **N/A**	
Description of any past ground disturbance:	The project site is located on a former BOCES facility, the entire project area has been previously disturbed by development and previous shoreline stabilization activities.	
DETAILED DESCRIPTION OF PROPOSED ACTIVITY: *Including construction/excavation techniques, equipment staging, and unavoidable impacts, etc.)*	The Proposed Project would include: •Removal of 1,600 linear feet of existing and compromised timber bulkhead to be replaced by a living shoreline. The living shoreline would consist of an armored toe stabilization set at the mean highwater line designed with large revetment stones protecting a stone core. The living shoreline will make the shoreline more resilient while minimizing the amount of hard features through use of low and high marsh plantings. •In-place and in-kind replacement of approximately 800 linear feet of existing timber bulkhead; new bulkhead would be set with a top elevation of 5.25, consistent with the existing timber bulkhead elevation. •Construction of an approximately 0.3-acre gravel parking lot near the northern section of the site. •Construction of an eight-foot wide gravel pedestrian path. •Construction of a permanent waterfront landing for non-motorized equipment (canoes and kayaks) for use by the public. (**see Attachment 2, Site Plans**)	
Additional REQUIRED information: **Survey or plat of lot with location of proposed activity indicated; photograph (digital photo preferred) of the proposed activity area.**		
Signature of applicant: Date: 01/16/2019		

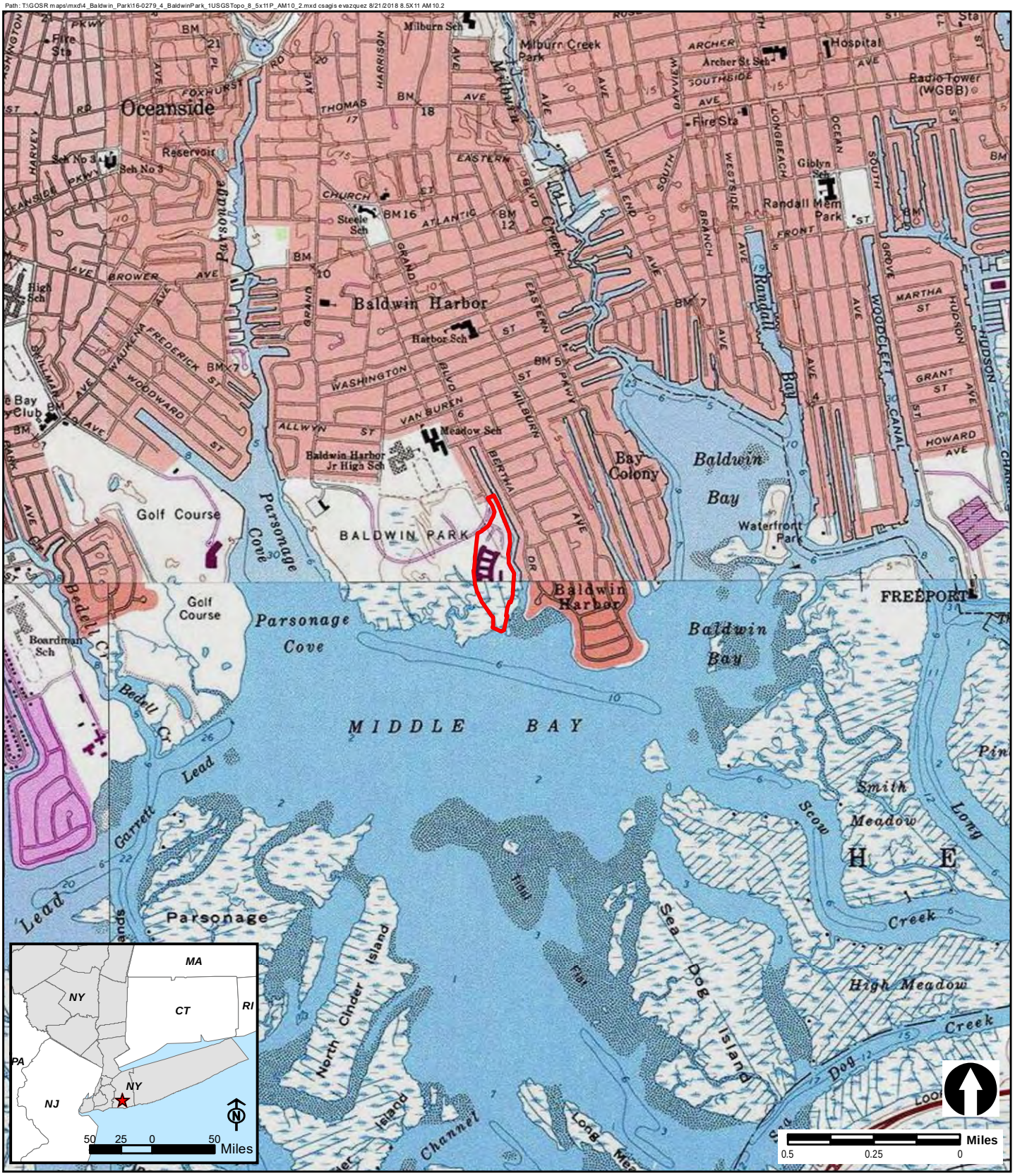
(For Shinnecock Nation THPO only)
RECEIVED BY: (THPO STAFF)

Comments/Concerns Date:

Attachment 1: Project Location Maps

Baldwin Park – Shoreline Stabilization Project

Path: T:\GOSR maps\mxd\4_Baldwin_Park\16-0279_4_BaldwinPark_1USGSTopo_8_5x11P_AM10_2.mxd csagis evazquez 8/21/2018 8.5X11 AM 10.2



Project Site

Figure 1

USGS Regional Location

Baldwin Park Shoreline Stabilization Project

Hempstead, Nassau County, NY

Source: USGS Topgraphic Map, Far Rockaway Quadrangle
Copyright:© 2013 National Geographic Society, i-cubed
(http://server.arcgisonline.com/ArcGIS/rest/services/
USA_Topo_Maps/MapServer)

CSAGROUP
EST • 1956

Path: T:\GOSR maps\mxd\4_Baldwin_Park\16-0279_4_BaldwinPark_2SiteLocation_8_5x11P_AM10_2.mxd csagis evazquez 8/21/2018 8.5X11 AM10.2

Project Site
Living Shoreline
Bulkhead

Figure 2

Project Area

Baldwin Park Shoreline Stabilization Project

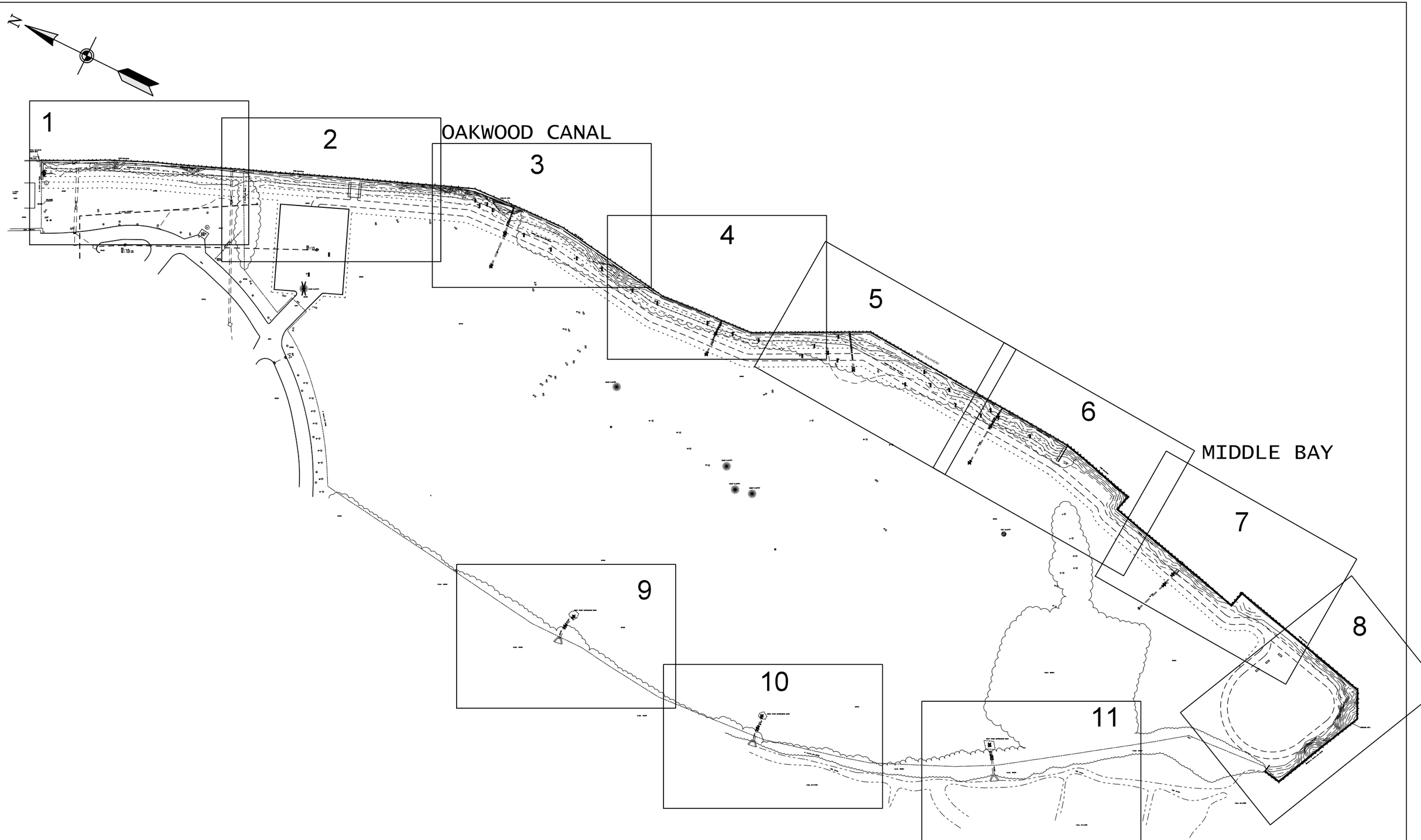
Hempstead, Nassau County, NY

Source: New York State Department of Transportation, 2013;
ESRI World Imagery

CSAGROUP EST. 1956

Attachment 2: Site Plans

Baldwin Park – Shoreline Stabilization Project



NO.	DATE	REVISIONS

In Charge:	D.L.T.
Compilation:	J.M.T.
Design:	J.M.T.
Drawn:	J.M.T.
Checked:	J.M.T.
Reviewed:	D.L.T.

TOWN OF HEMPSTEAD N.Y. FOUNDED 1644

Department of Engineering

PLAN NOTES:

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KEY MAP

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:

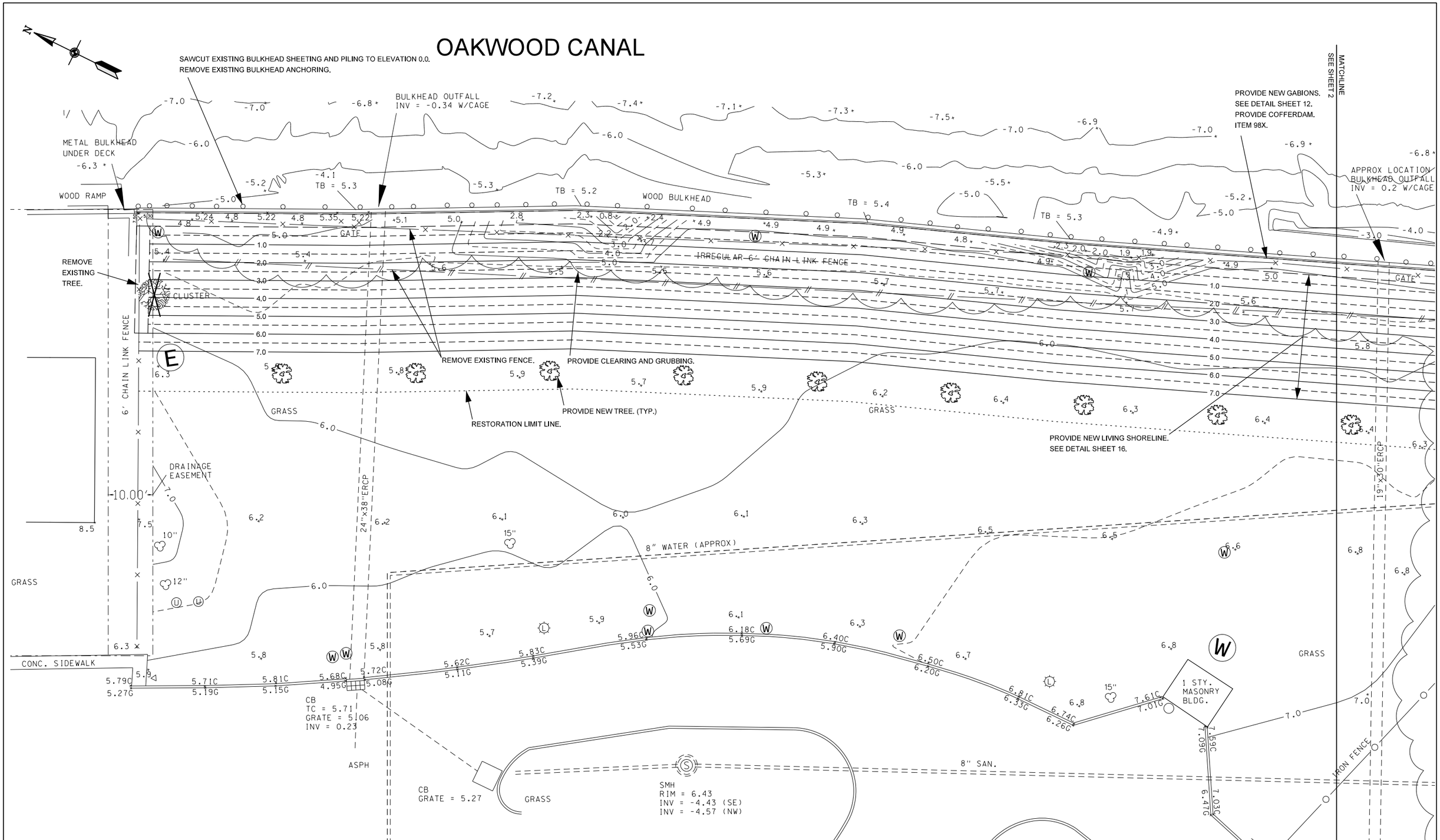
Date: MARCH 2018

File No.:

Dwg No.:

Sheet No.: of

OAKWOOD CANAL



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Proposed Contours

Existing Contours

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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

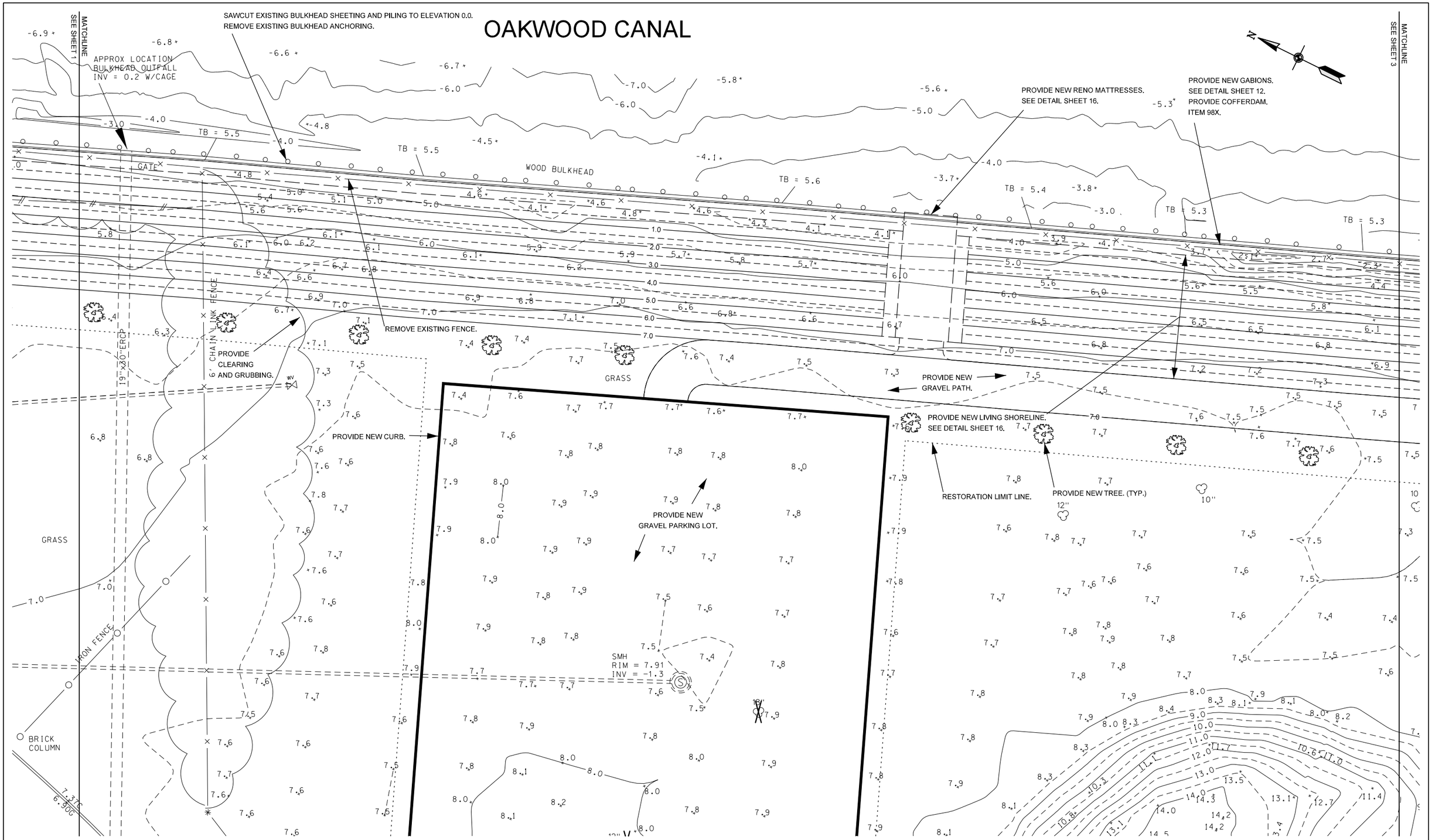
Date: MARCH 2018

File No.:

Dwg No.:

Sheet No.: 1 of 13

OAKWOOD CANAL



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BALDWIN HARBOR PARK PLAN

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BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	MARCH 2018
File No.:	
Dwg No.:	
Sheet No.:	2 of 13

OAKWOOD CANAL

MATCHLINE SEE SHEET 2

MATCHLINE SEE SHEET 4

TB = 5.3

TB = 5.4

TB = 5.2

TB = 5.5

TB = 5.2

TB = 5.

REMOVE EXISTING FENCE.

PROVIDE NEW TREE. (TYP.)

PROVIDE NEW GRAVEL PATH.

BULKHEAD EXISTING DRAIN PIPE.

RESTORATION LIMIT LINE.

REMOVE EXISTING CATCH BASIN.

REMOVE EXISTING DRAIN PIPE.

PROVIDE CLEARING AND GRUBBING.

EROSION AREA

CONCRETE HEADWALL BULKHEAD OUTFALL INV = 1.4

SAWCUT EXISTING BULKHEAD SHEETING AND PILING TO ELEVATION 0.0. REMOVE EXISTING BULKHEAD ANCHORING.

PROVIDE NEW GABIONS. SEE DETAIL SHEET 12. PROVIDE COFFERDAM. ITEM 98X.

WOODED AREA TREES AND BRUSH

WOOD BULKHEAD

REMOVE EXISTING TREE.

PROVIDE NEW LIVING SHORELINE. SEE DETAIL SHEET 16.

GB
TCP = 7.00
GRATE = 6.22
INV = 1.36

CB
GRATE = 6.12
INV = 2.00

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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

Date: MARCH 2018

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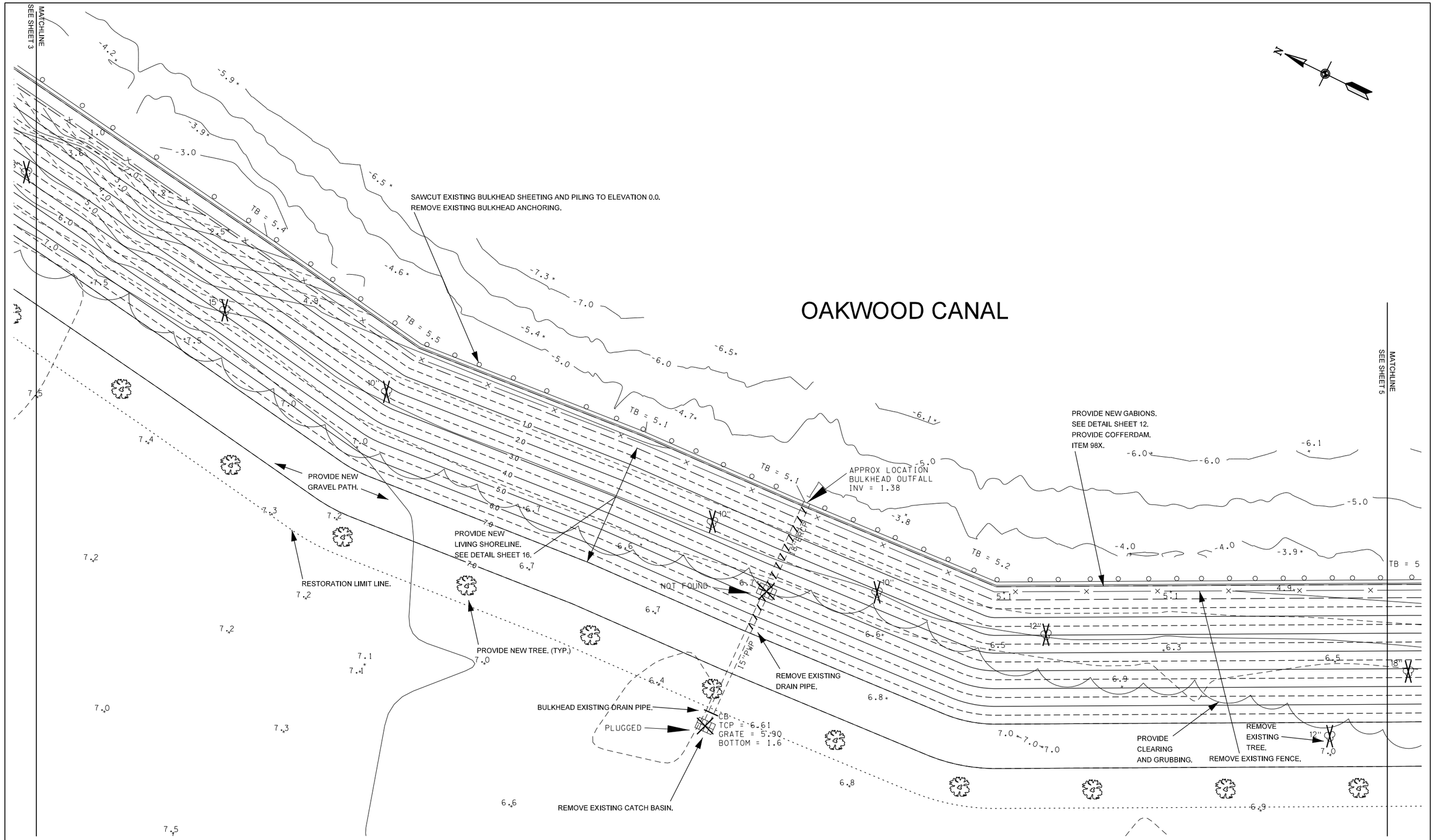
Sheet No.: 3 of 13



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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

Date: MARCH 2018

File No.:

Dwg No.:

Sheet No.: 4 of 13

OAKWOOD CANAL

SAWCUT EXISTING BULKHEAD SHEETING AND PILING TO ELEVATION 0.0.
REMOVE EXISTING BULKHEAD ANCHORING.

PROVIDE NEW GABIONS.
SEE DETAIL SHEET 12.
PROVIDE COFFERDAM.
ITEM 98X.

MATCHLINE
SEE SHEET 5

MATCHLINE
SEE SHEET 4

WOOD BULKHEAD

APPROX LOCATION
BULKHEAD OUTFALL
INV = 2.50

REMOVE EXISTING FENCE.

WOODED AREA TREES AND BRUSH

PROVIDE NEW
GRAVEL PATH.

REMOVE EXISTING
DRAIN PIPE.

REMOVE
EXISTING
TREE.

CB
GRATE = 5.85'

REMOVE EXISTING CATCH BASIN.

BULKHEAD EXISTING DRAIN PIPE.

PROVIDE
CLEARING
AND GRUBBING.

RESTORATION LIMIT LINE.

PROVIDE NEW
LIVING SHORELINE.
SEE DETAIL SHEET 16.

PROVIDE NEW TREE. (TYP.)

NO.	DATE	REVISIONS

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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	MARCH 2018
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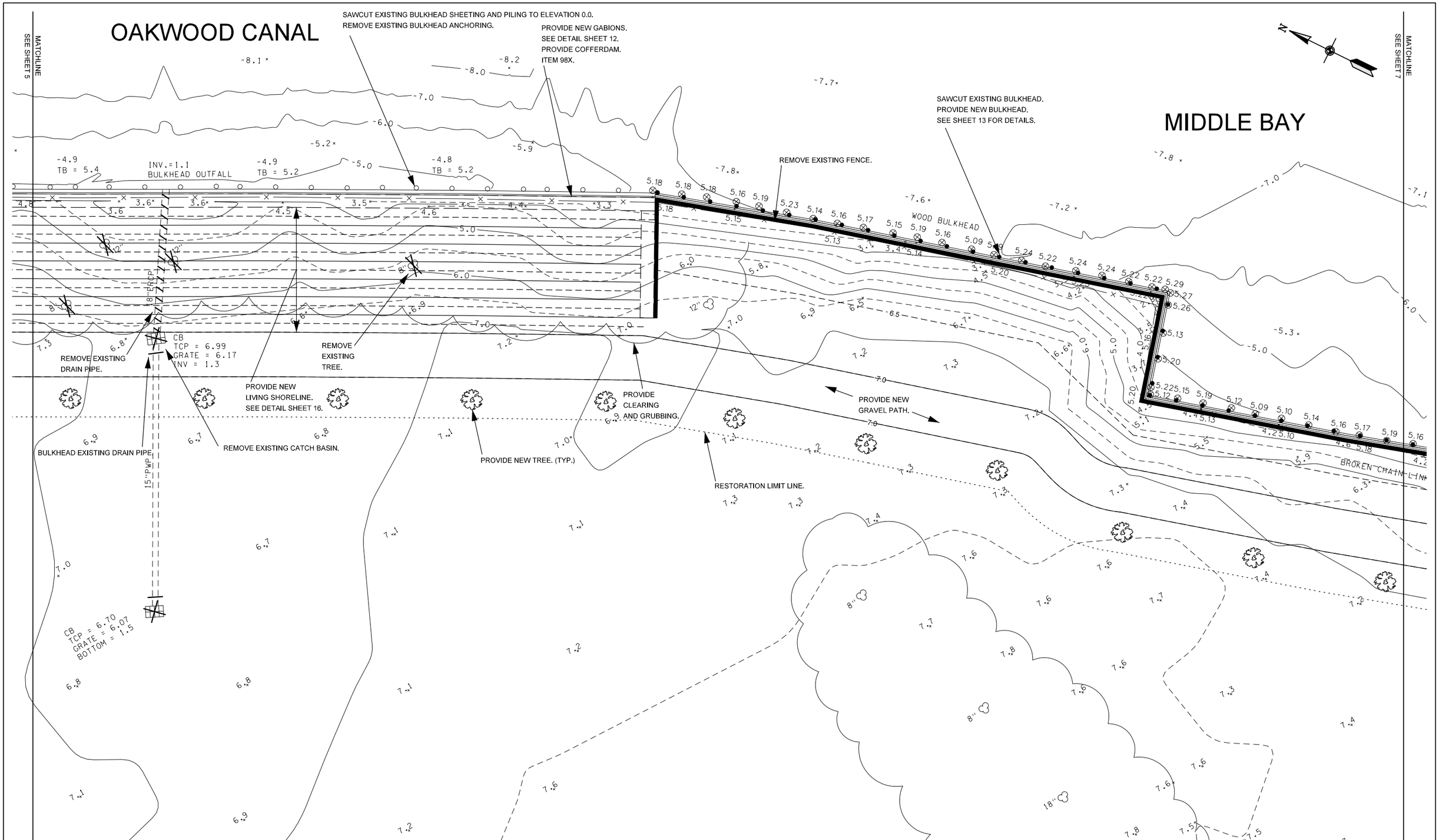
Sheet No.:	5 of 13



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BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

Date: MARCH 2018

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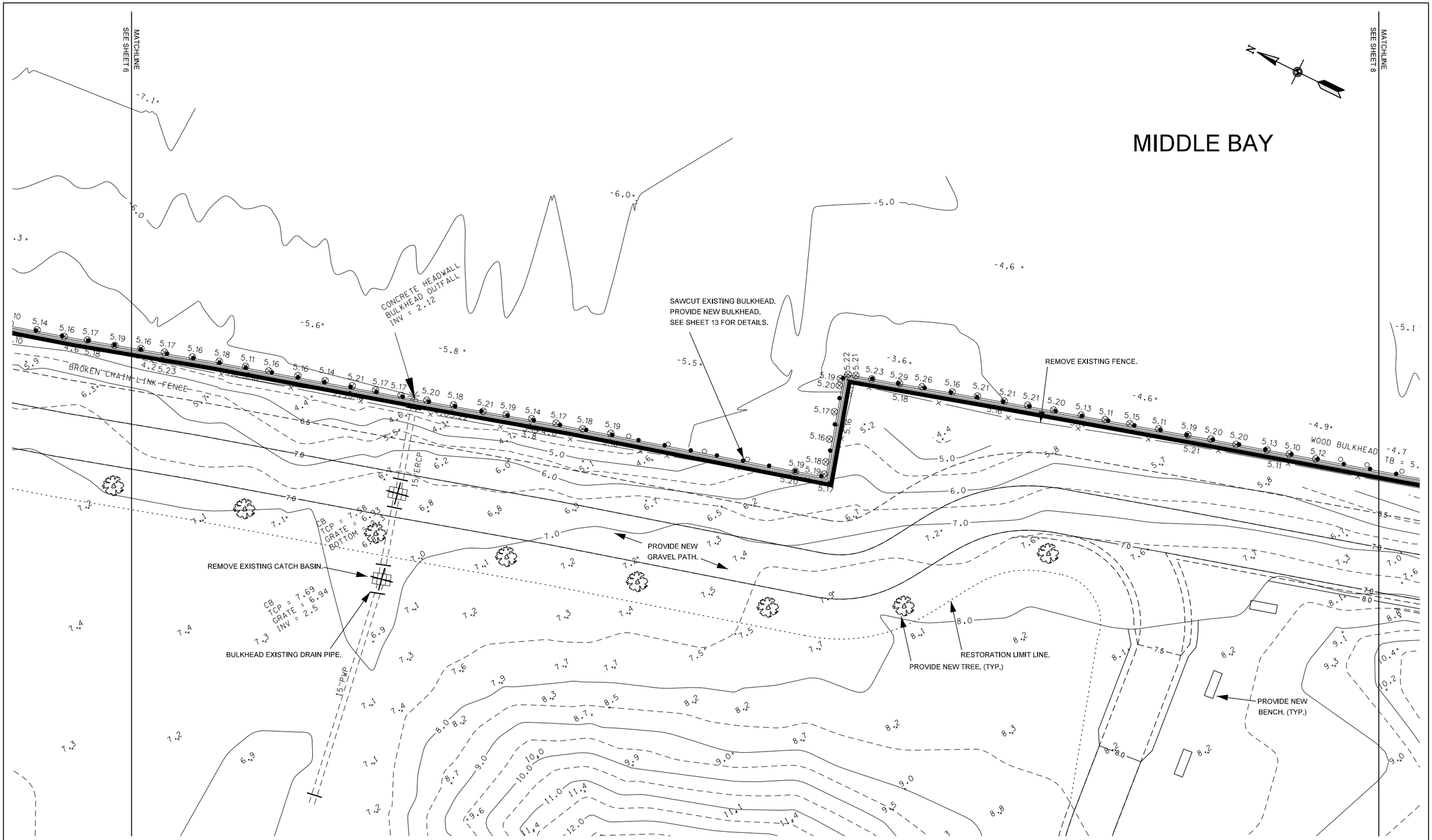
Sheet No.: 6 of 13



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SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

Date: MARCH 2018

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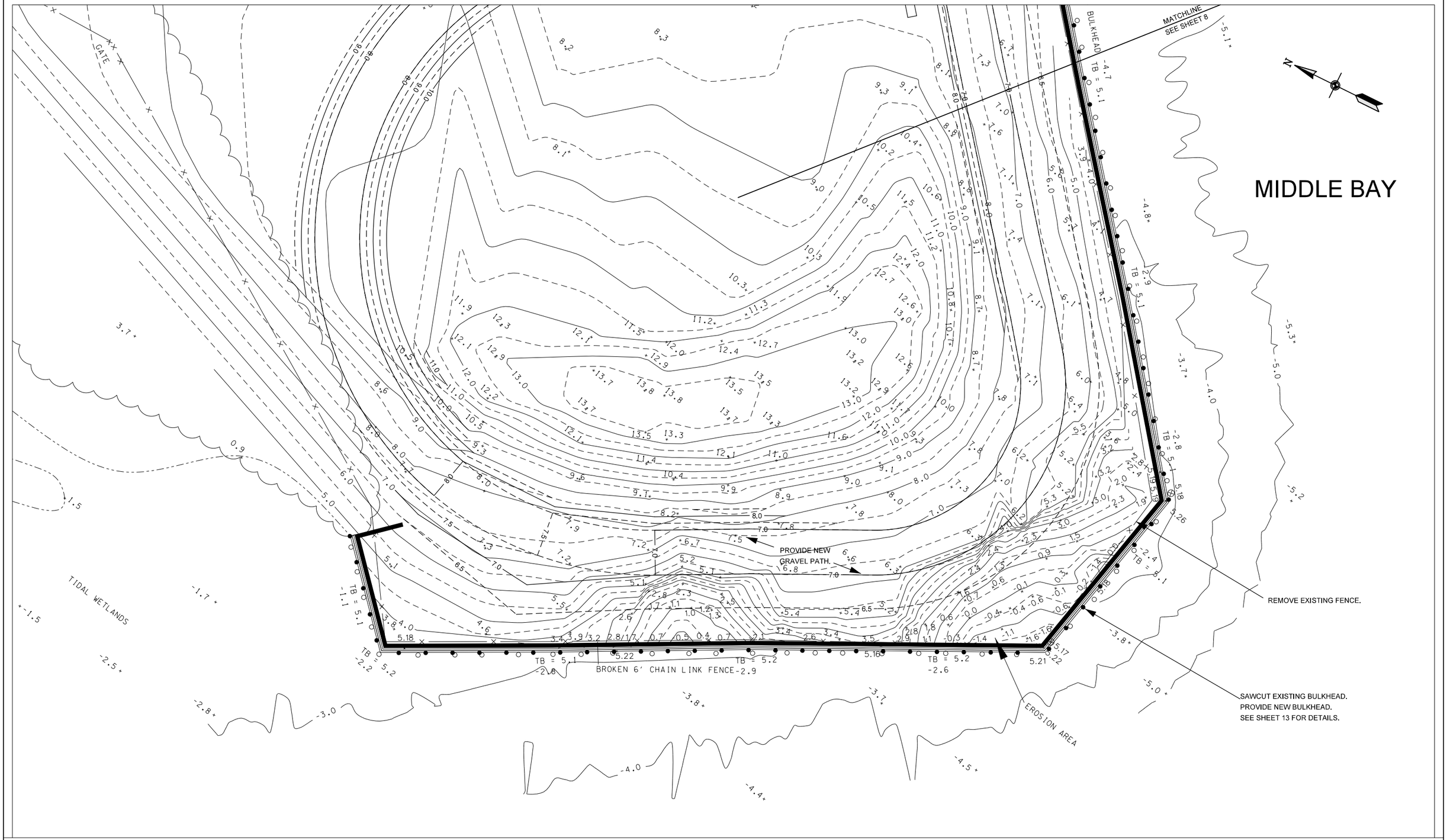
Sheet No.: 7 of 13



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BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	MARCH 2018
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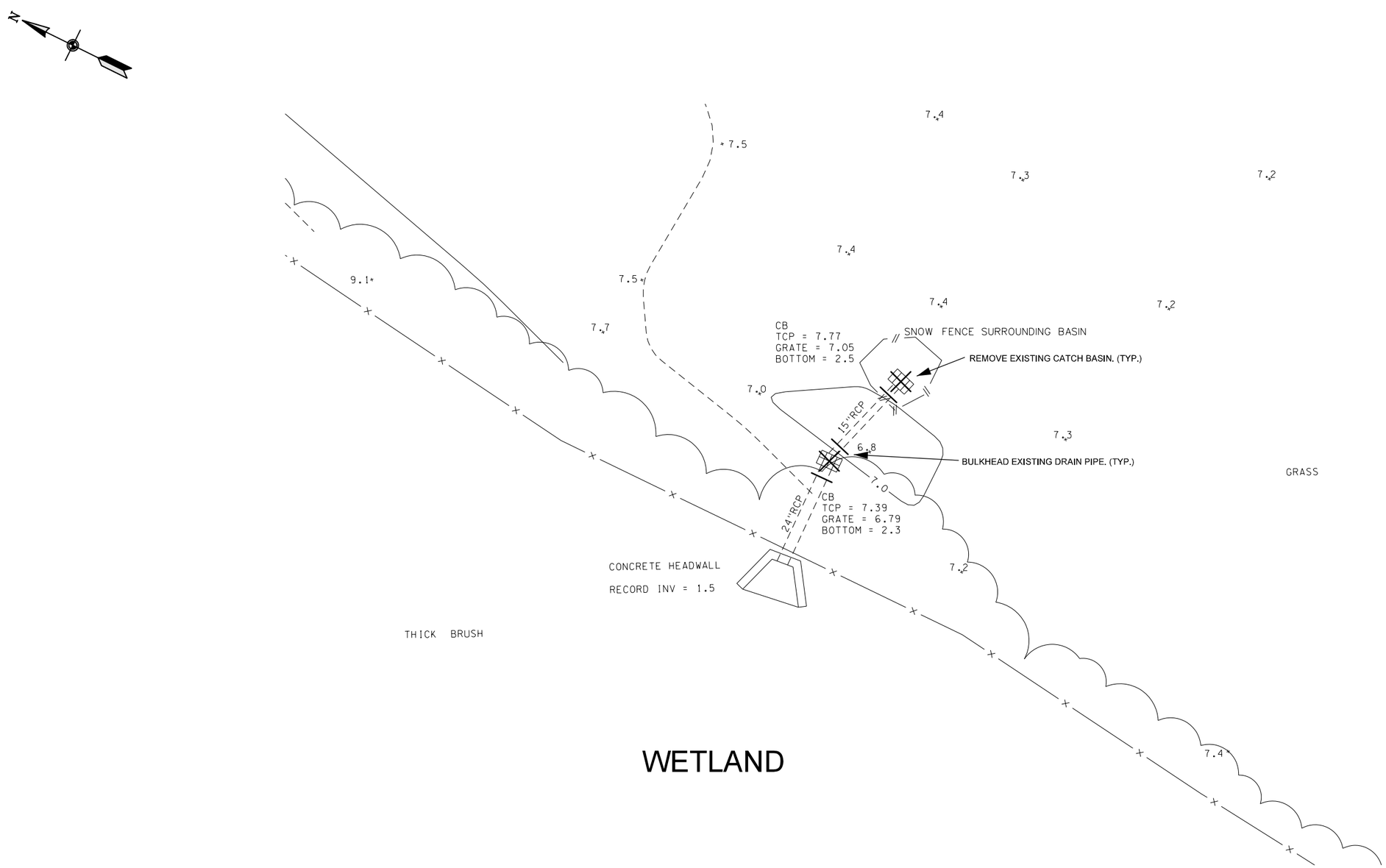
Sheet No.:	8 of 13



NOTE: SEE KEY MAP FOR LOCATION DETAILS.

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BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

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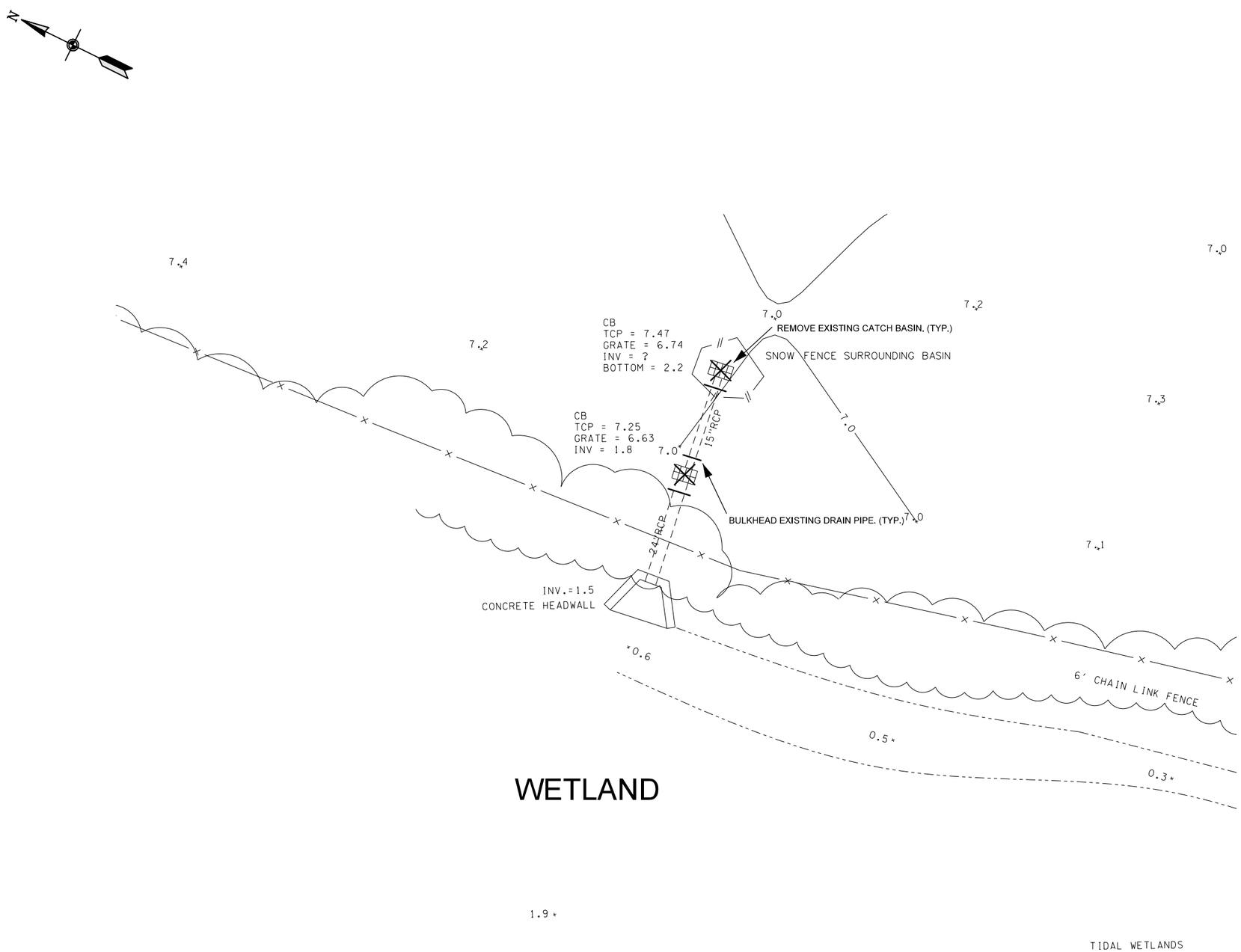
Sheet No.: 9 of 13



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Scale: 1" = 20'

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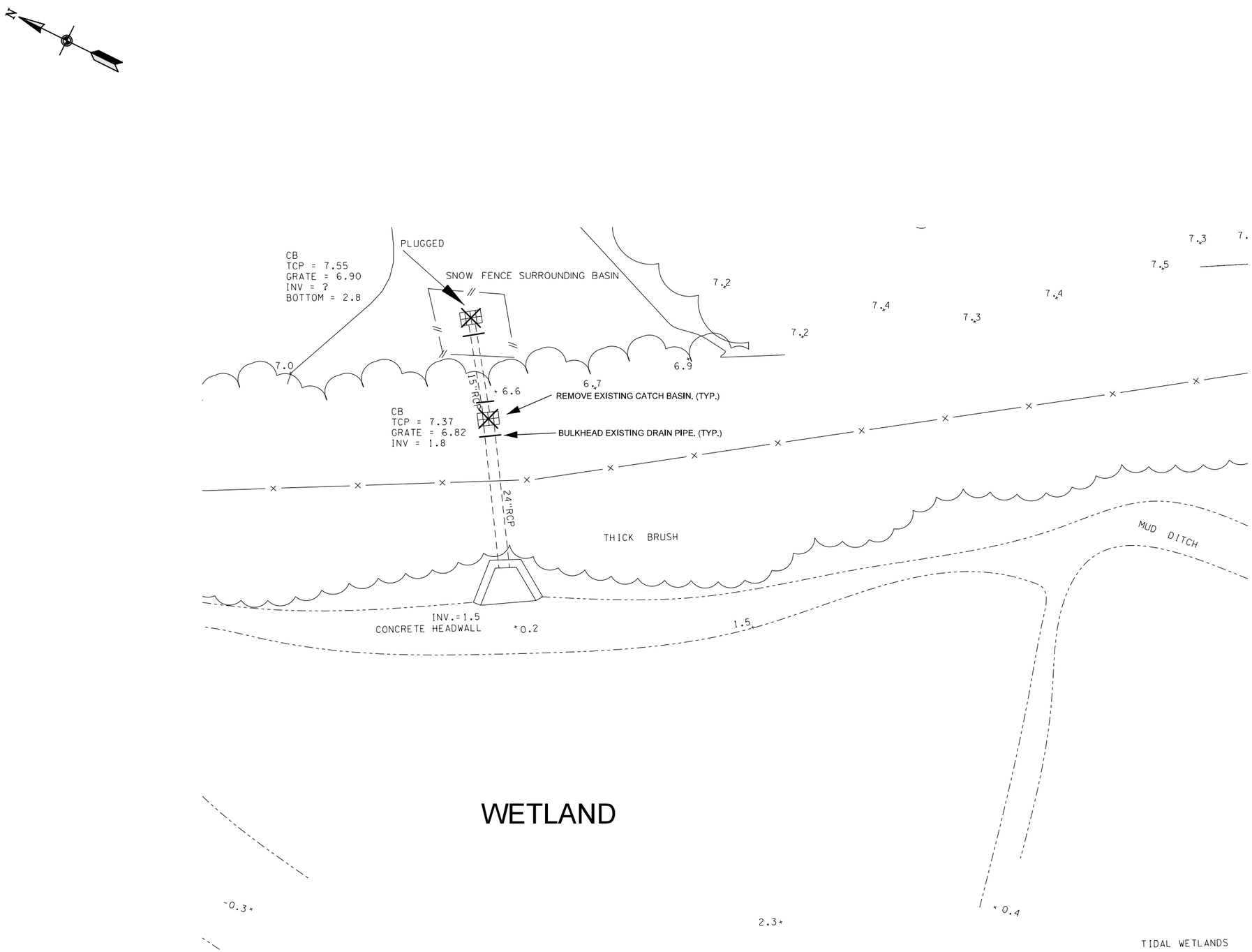

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BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

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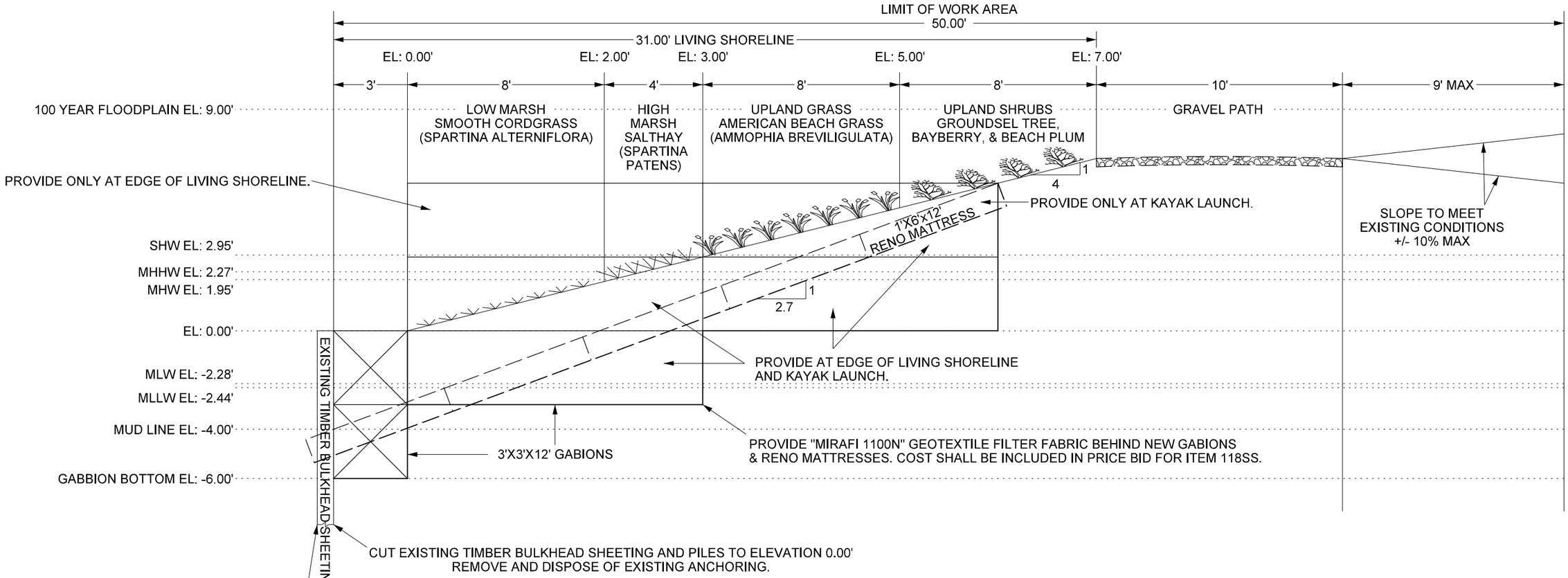

NOTE:
CONTRACTOR TO FURNISH, MAINTAIN, AND REMOVE COFFERDAMS AND DEWATERING EQUIPMENT.
THE SELECTION OF MATERIALS, THEIR ARRANGEMENT AND DETAILS SHALL BE THE CONTRACTORS OPTION AND RESPONSIBILITY.
ITEM 98X.

PLANTING SPECIFICATIONS

LOW MARSH:
Smooth Cordgrass (Spartina Alteriflora)
All plants to be Nursery Grown in 2" Peat pots, planted on 18" centers. Stagger rows.

HIGH MARSH:
Saltmeadow Cordgrass (Spartina Patens)
All plants to be Nursery Grown in 2" Peat pots, planted on 18" centers. Stagger rows.

UPLAND GRASS:
American Beachgrass (Ammonphila Breviligulata)
Install on 18" centers. 3 culms/planting unit. Stagger rows.
Fertilize in early spring. 30lbs inorganic nitrogen/acre.

UPLAND SHRUBS:
Groudsel Tree (Baccharis Hamlimifolia)
Bayberry (Myrica Pennsylvanica)
Beach Plum (Prunus Maritima)
All plants to be Nursery Grown, 2 Gallon Minimum. Install on 6' centers.
Fertilize with 1 tablespoon of Osmocote 18-6-12 per planting hole.

NOTE:
Smooth Cordgrass plantings to be installed prior to Saltmeadow Cordgrass plantings to prevent disturbence.
Saltmeadow Cordgrass plantings to be installed prior to upland plantings to prevent disturbence.
All plant installation and seeding to occur between March 15 and May 15 or September 15 to October 15.

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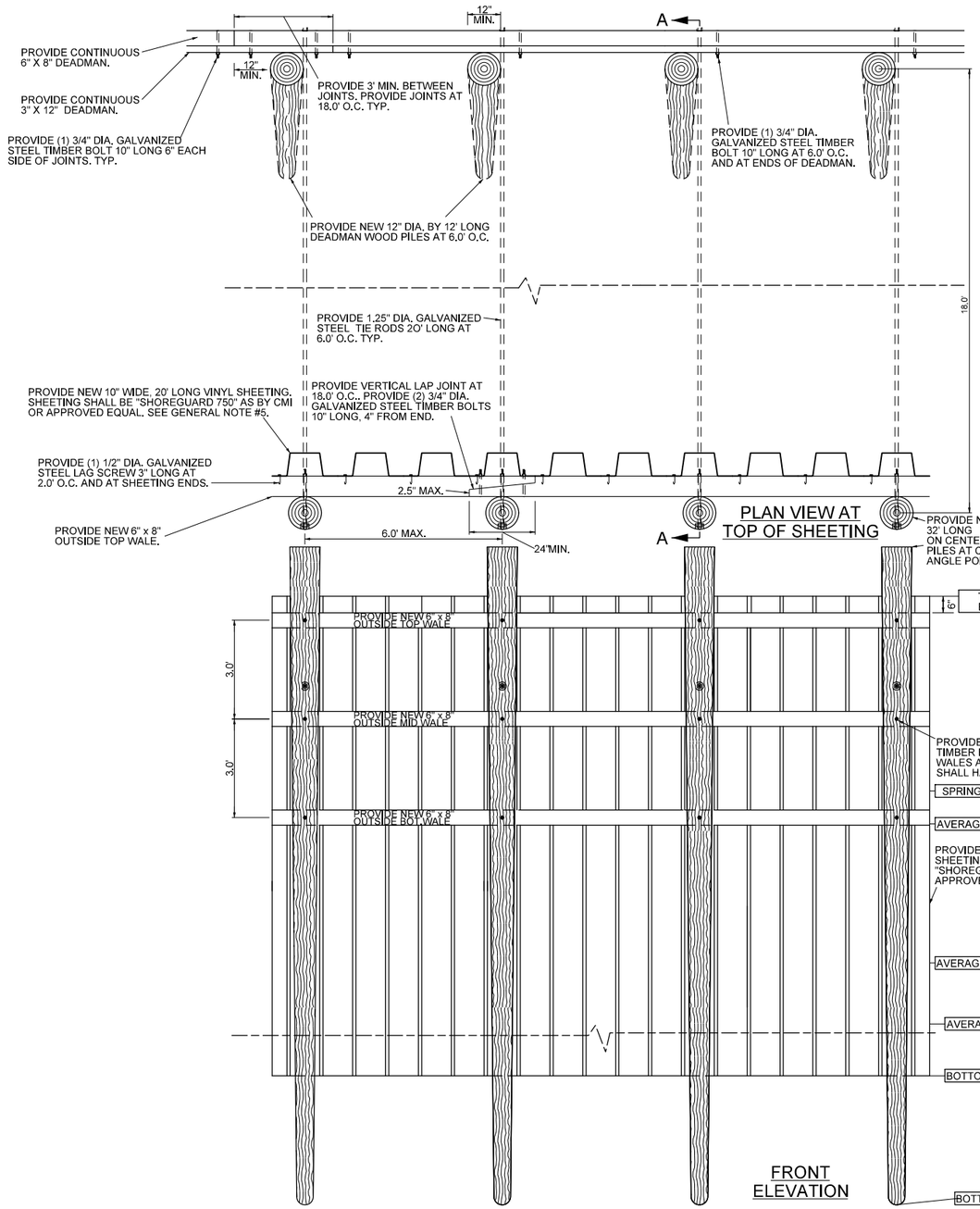
TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
Department of Engineering

LIVING SHORELINE DETAIL

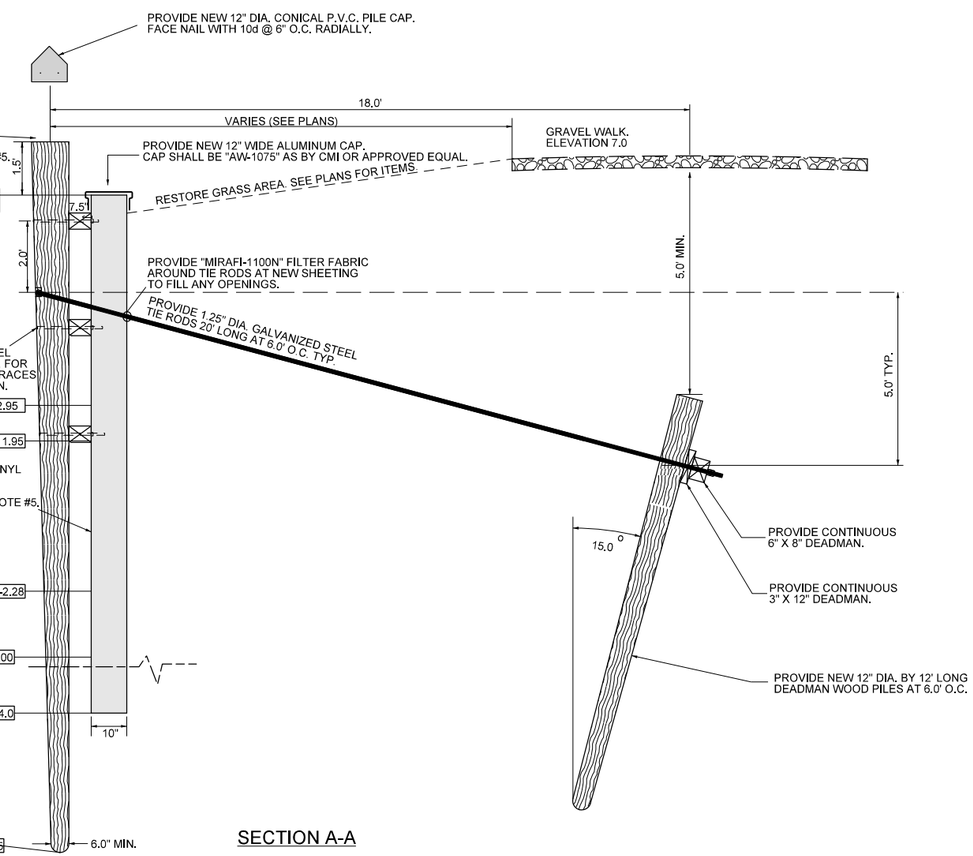
SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: MARCH 2018
File No.:
Dwg No.:
Sheet No.: 12 of 13



ITEM 204X GENERAL NOTES:

1. ALL LUMBER AND TIMBER SIZES INDICATED ARE NOMINAL. ALL DIMENSIONS INDICATED ARE FINISHED.
2. ALL LUMBER AND TIMBER SHALL BE CCA AND PRESSURE TREATED TO OBTAIN A MINIMUM RETENTION OF 2.5 LBS/CF.
3. NEW RETURNS AND CONNECTIONS TO EXISTING BULKHEADS AT LIMITS OF NEW BULKHEAD SHALL BE DETERMINED IN FIELD A.O.B.E.
4. EXISTING BULKHEADS AND EXISTING BULKHEAD ANCHORING COMPONENTS SHALL BE COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 204X.
5. SEE PLANS FOR NEW TOP OF SHEETING ELEVATIONS, NEW SHEETING LENGTHS AND NEW PILE LENGTHS.
6. ALL TIMBER AND CARRIAGE BOLTS SHALL BE PROVIDED WITH ONE N.Y.D.D.WASHER AND NUT AT END.
7. ALL LAG SCREWS SHALL BE PROVIDED WITH ONE N.Y.D.D.WASHER AT HEAD END.
8. ALL TIE RODS SHALL BE PROVIDED WITH TWO N.Y.D.D.WASHERS AND NUTS AT EACH END.
9. ALL BOLTS AND TIE RODS SHALL BE CUT FLUSH AT NUT END WHERE SHOWN AND WHERE NECESSARY TO INSTALL NEW BULKHEAD COMPONENTS.
10. ALL TIE RODS SHALL BE CUT FLUSH AT FRONT OF PILES. NUTS AND WASHERS SHALL BE COUNTERSUNK.
11. ALL HARDWARE AND FASTENERS SHALL BE GALVANIZED STEEL UNLESS OTHERWISE SHOWN AND MEET N.C.D.P.W SPECIFICATIONS.
12. ALL OPENINGS IN NEW SHEETING FOR TIE RODS SHALL BE LIMITED IN SIZE AS FOLLOWS; THRU WALL DIMENSION PLUS ONE INCH.



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NO.	DATE	REVISIONS

In Charge:	D.L.T.
Compilation:	J.M.T.
Design:	J.M.T.
Drawn:	J.M.T.
Checked:	J.M.T.
Reviewed:	D.L.T.

TOWN OF HEMPSTEAD, N.Y. FOUNDED 1644
Department of Engineering

BULKHEAD DETAIL

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: MARCH 2018
File No.:
Dwg No.:
Sheet No.: 13 of 13

Attachment 3: SHPO Correspondence

Baldwin Park – Shoreline Stabilization Project

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

ANDREW M. CUOMO
Governor

ROSE HARVEY
Commissioner

December 7, 2018

James McAllister
Governor's Office of Storm Recovery
500 Bi-County Boulevard
Farmingdale, NY 11735

Re: HTF/ GOSR/ HUD CDBG-DR/ Storm resiliency:
Baldwin Park Shoreline Stabilization
Hempstead/ Nassau County
18PR07551

Dear Mr. McAllister:

Thank you for requesting the comments of the New York State Historic Preservation Office (SHPO). We have reviewed the submitted materials in accordance with Title 54, Section 306108 of the National Historic Preservation Act of 1966. These comments are those of the SHPO and relate only to Historic/ Cultural resources. They do not include other environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the National Environmental Policy Act and/or the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8).

Based on this review, it is the opinion of SHPO that there will be No Historic Properties Affected by the proposed undertaking.

If I can be of further assistance, contact me at (518) 268-2187 or Larry.moss@parks.ny.gov

Sincerely,

L Moss

Larry K Moss, Historic Preservation Technical Specialist

CC: Cristy Boyd, CSA Group

Governor's Office of Storm Recovery

ANDREW M. CUOMO
Governor

January 16, 2019

By Electronic Mail

Kim Penrod
Delaware Nation - Director, Cultural Resources/Section 106
P.O. Box 825
Anadarko, Oklahoma 73005
kpenrod@delawarenation.com

Re: Section 106 Compliance for the Baldwin Park Shoreline Stabilization Project
Town of Hempstead, Nassau County, NY

Dear Ms. Penrod,

Pursuant to the Disaster Relief Appropriations Act, 2013 (Public Law 113-2) and the Housing and Community Development Act (42 U.S.C. §5301 et seq.), the Governor's Office of Storm Recovery (GOSR), is acting under auspices of New York State Homes and Community Renewal's Housing Trust Fund Corporation as a recipient of Community Development Block Grant – Disaster Recovery ("CDBG-DR") funds from the United States Department of Housing and Urban Development ("HUD"). GOSR is the entity responsible for compliance with the HUD environmental review procedures set forth in 24 CFR Part 58. GOSR is acting on behalf of HUD in providing the enclosed project information and inviting this discussion with your Tribe to respond with any concerns or comments.

GOSR processes environmental reviews for projects funded with HUD CDBG-DR on a case-by-case basis. In accordance with Section 101(d)(6)(B) of the National Historic Preservation Act (NHPA) of 1966, as amended (16 U.S.C. 470a), and its implementing regulations, 36 Code of Federal Regulations (CFR) Part 800, this letter serves as notification of the proposed action. This consultation is being sent to the Delaware Tribe, Shinnecock Nation, Unkechaug and the Stockbridge-Munsee Community Band of Mohicans.

Area of Potential Effect:
GOSR proposes to provide funding to implement shoreline improvements within the Town of Hempstead's Baldwin Park located at 3232 Grand Avenue, Baldwin, New York. The Proposed Project site is situated within Section 54, Block H, Lot 391, a 14.6-acre parcel formerly occupied by a Board of Cooperative Education Services (BOCES) Facility (see **Attachment 1, Project Location Maps**).

The purpose of the Proposed Project is to implement storm protection measures along the shoreline of Baldwin Park to minimize further erosion and damage that resulted from Superstorm Sandy and other recent storms. The Proposed Project would also provide public waterfront access at Baldwin Park, as well as access to the Blueway Trail, enabling residents to enjoy open space and recreational activities. The Proposed Project would help protect both water quality and a key community natural and cultural asset from future flood risk and erosion and reduce the need for recovery resources following a major storm event. Further, stabilization of this shoreline and the re-establishment of marsh vegetation is expected to attenuate wave energy and reduce the risk of flood damage to the surrounding neighborhoods.

Proposed Project Description

The Proposed Project would include:

- Removal of 1,600 linear feet of existing and compromised timber bulkhead to be replaced by a living shoreline. The living shoreline would consist of an armored toe stabilization set at the mean highwater line designed with large revetment stones protecting a stone core. The living shoreline will make the shoreline more resilient while minimizing the amount of hard features through use of low and high marsh plantings.
- In-place and in-kind replacement of approximately 800 linear feet of existing timber bulkhead; new bulkhead would be set with a top elevation of 5.25, consistent with the existing timber bulkhead elevation.
- Construction of an approximately 0.3-acre gravel parking lot near the northern section of the site.
- Construction of an eight-foot wide gravel pedestrian path.
- Construction of a permanent waterfront landing for non-motorized equipment (canoes and kayaks) for use by the public. (see **Attachment 2, Site Plans)**

On December 1, 2018, the New York State Cultural Resource Information System (CRIS) was reviewed to determine whether any cultural resources were located near the project area. According to the information contained in CRIS, there are no structures, historic districts, landmarks nor other cultural resources of significance situated on or in the immediate vicinity of the project site. Subsequently, a letter was sent to the New York State Historic Preservation Officer (SHPO) requesting consultation. On December 7, 2018, SHPO indicated that there would be No Historic Properties Affected by the undertaking (see **Attachment 3 for SHPO response letter)**.

GOSR is completing an environmental review for this project pursuant to HUD NEPA regulations. If the Area of Potential Effects encompasses historic properties of religious or cultural significance to your Tribe, please respond within 30 days or sooner. Additionally, please indicate if there are other sources of information or other parties, Nations, Tribes, or members of the public you believe should be included in the consultation process. Please respond by email or in writing to the address listed below.

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, N.Y. 11735

I am available to answer any questions that you may have regarding this action. 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
Senior Environmental Project Manager
Bureau of Environmental Review and Assessment
Governor's Office of Storm Recovery

Enclosures:
Attachment 1: Project Location Maps
Attachment 2: Site Plans
Attachment 3: SHPO Correspondence

Attachment 1: Project Location Maps

Baldwin Park – Shoreline Stabilization Project

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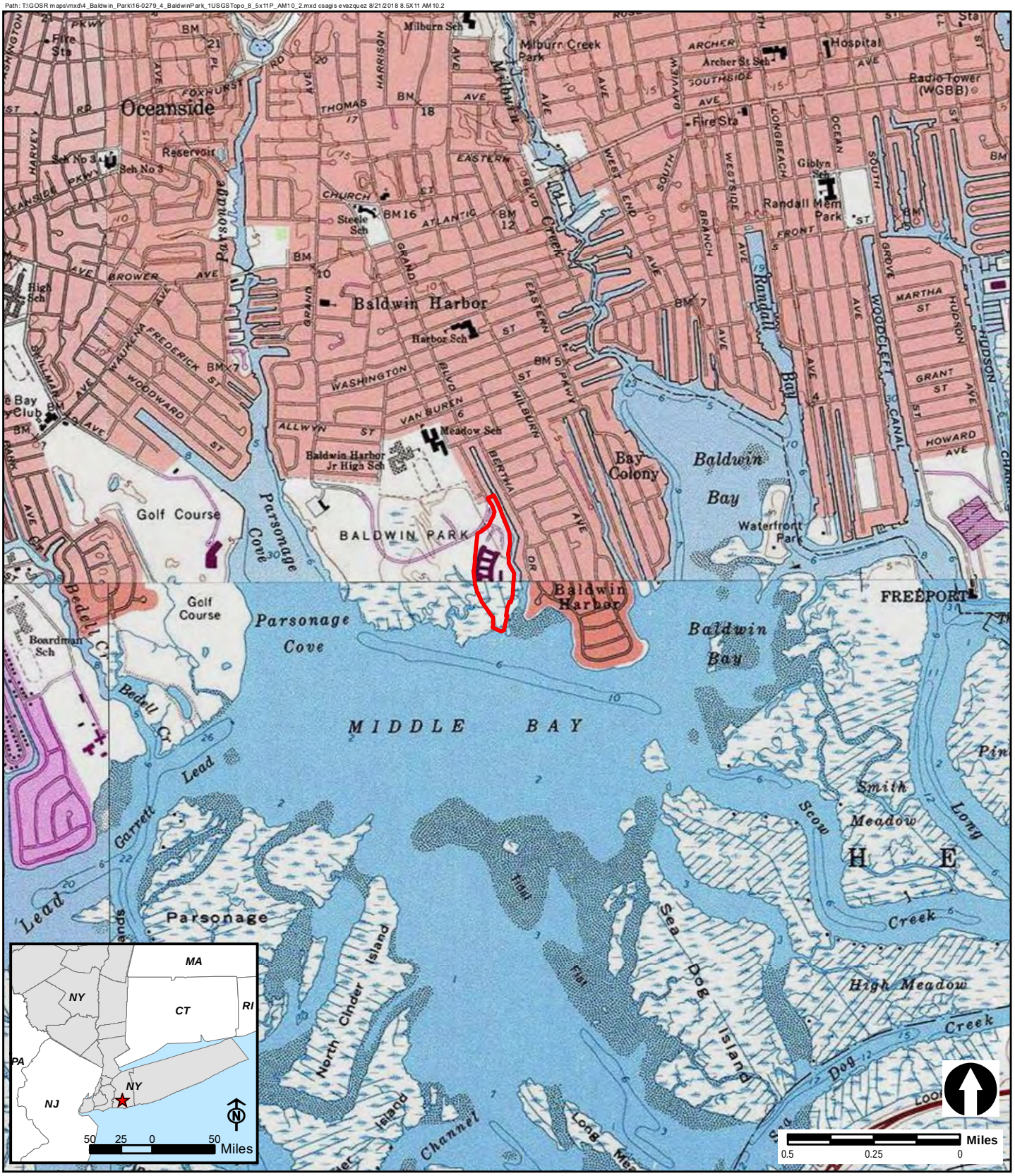

Project Site

Figure 1

USGS Regional Location

Baldwin Park Shoreline Stabilization Project

Hempstead, Nassau County, NY

Source: USGS Topgraphic Map, Far Rockaway Quadrangle
Copyright:© 2013 National Geographic Society, i-cubed
(http://server.arcgisonline.com/ArcGIS/rest/services/
USA_Topo_Maps/MapServer)

CSAGROUP
EST • 1956

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Project Site
Living Shoreline
Bulkhead

Figure 2

Project Area

Baldwin Park Shoreline Stabilization Project

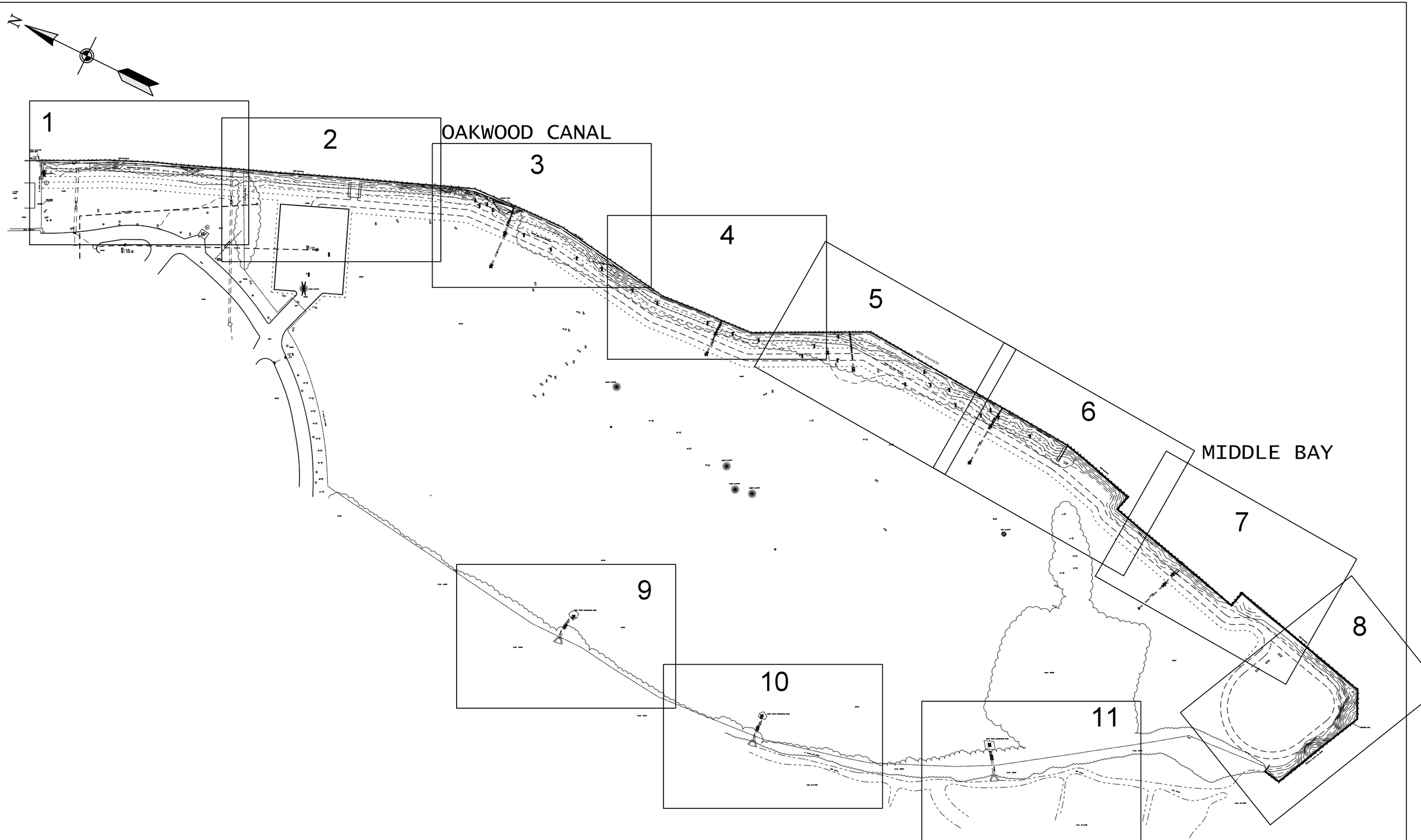
Hempstead, Nassau County, NY

Source: New York State Department of Transportation, 2013;
ESRI World Imagery

CSAGROUP EST. 1956

Attachment 2: Site Plans

Baldwin Park – Shoreline Stabilization Project



NO.	DATE	REVISIONS

In Charge:	D.L.T.
Compilation:	J.M.T.
Design:	J.M.T.
Drawn:	J.M.T.
Checked:	J.M.T.
Reviewed:	D.L.T.

TOWN OF HEMPSTEAD N.Y. FOUNDED 1644

Department of Engineering

PLAN NOTES:

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KEY MAP

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:

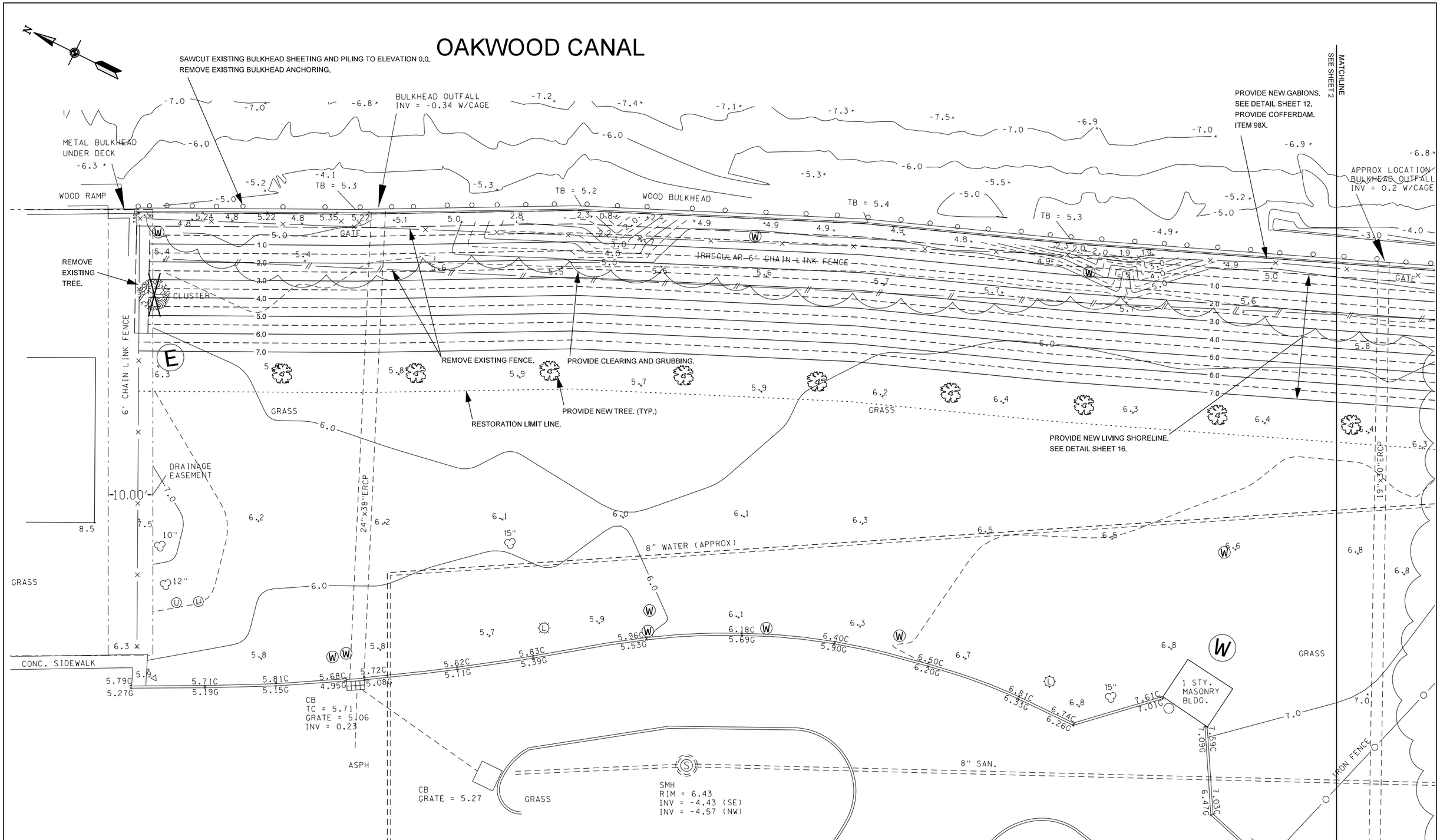
Date: MARCH 2018

File No.:

Dwg No.:

Sheet No.: of

OAKWOOD CANAL



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Proposed Contours

Existing Contours

TOWN OF HEMPSTEAD N.Y. FOUNDED 1644

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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

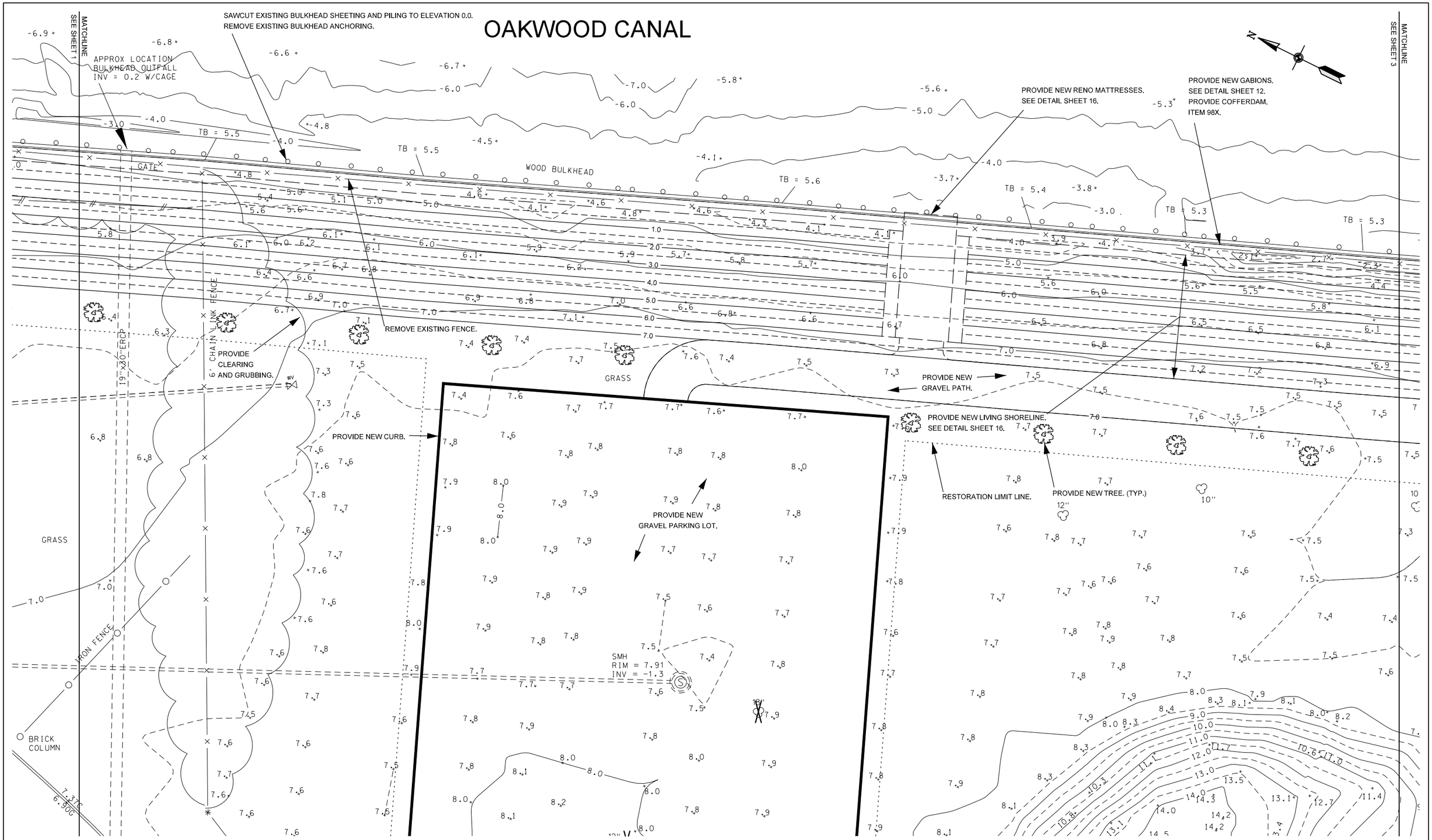
Date: MARCH 2018

File No.:

Dwg No.:

Sheet No.: 1 of 13

OAKWOOD CANAL



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TOWN OF HEMPSTEAD N.Y. FOUNDED 1644

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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	MARCH 2018
File No.:	
Dwg No.:	
Sheet No.:	2 of 13

OAKWOOD CANAL

MATCHLINE SEE SHEET 2

MATCHLINE SEE SHEET 4

TB = 5.3

TB = 5.4

TB = 5.2

TB = 5.5

TB = 5.2

TB = 5.

REMOVE EXISTING FENCE.

PROVIDE NEW TREE. (TYP.)

PROVIDE NEW GRAVEL PATH.

BULKHEAD EXISTING DRAIN PIPE.

RESTORATION LIMIT LINE.

REMOVE EXISTING CATCH BASIN.

REMOVE EXISTING DRAIN PIPE.

PROVIDE CLEARING AND GRUBBING.

EROSION AREA

CONCRETE HEADWALL BULKHEAD OUTFALL INV = 1.4

SAWCUT EXISTING BULKHEAD SHEETING AND PILING TO ELEVATION 0.0. REMOVE EXISTING BULKHEAD ANCHORING.

PROVIDE NEW GABIONS. SEE DETAIL SHEET 12. PROVIDE COFFERDAM. ITEM 98X.

WOODED AREA TREES AND BRUSH

WOOD BULKHEAD

REMOVE EXISTING TREE.

PROVIDE NEW LIVING SHORELINE. SEE DETAIL SHEET 16.

GB
TCP = 7.00
GRATE = 6.22
INV = 1.36

CB
GRATE = 6.12
INV = 2.00

NO.	DATE	REVISIONS

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Proposed Contours

Existing Contours

TOWN OF HEMPSTEAD N.Y. FOUNDED 1644

Department of Engineering

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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

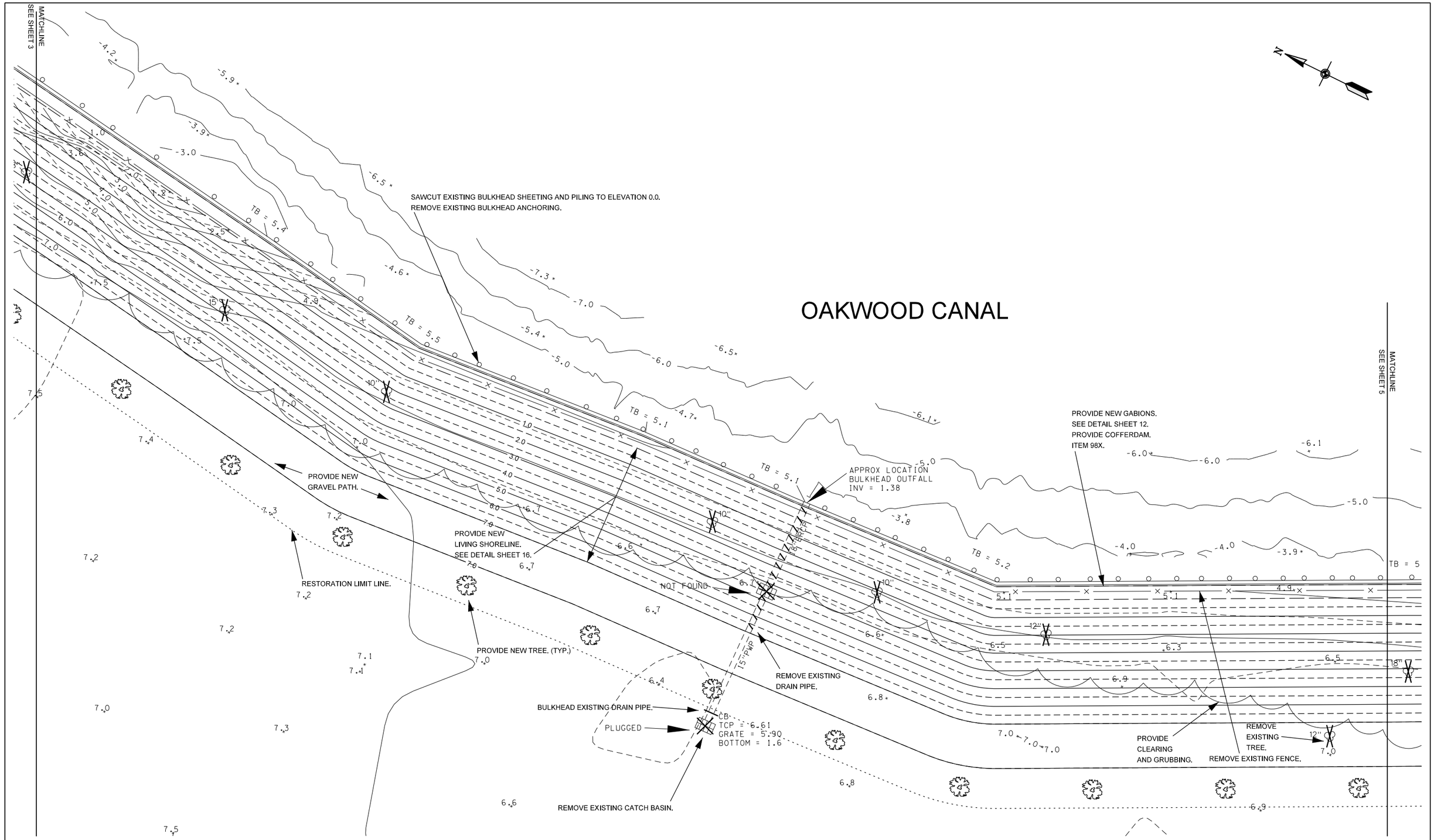
Scale: 1" = 20'

Date: MARCH 2018

File No.:

Dwg No.:

Sheet No.: 3 of 13



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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

Date: MARCH 2018

File No.:

Dwg No.:

Sheet No.: 4 of 13

OAKWOOD CANAL

SAWCUT EXISTING BULKHEAD SHEETING AND PILING TO ELEVATION 0.0.
REMOVE EXISTING BULKHEAD ANCHORING.

PROVIDE NEW GABIONS.
SEE DETAIL SHEET 12.
PROVIDE COFFERDAM.
ITEM 98X.

MATCHLINE
SEE SHEET 5

MATCHLINE
SEE SHEET 4

WOOD BULKHEAD

APPROX LOCATION
BULKHEAD OUTFALL
INV = 2.50

REMOVE EXISTING FENCE.

WOODED AREA TREES AND BRUSH

PROVIDE NEW
GRAVEL PATH.

REMOVE EXISTING
DRAIN PIPE.

REMOVE
EXISTING
TREE.

CB
GRATE = 5.85'

REMOVE EXISTING CATCH BASIN.

BULKHEAD EXISTING DRAIN PIPE.

PROVIDE
CLEARING
AND GRUBBING.

RESTORATION LIMIT LINE.

PROVIDE NEW
LIVING SHORELINE.
SEE DETAIL SHEET 16.

PROVIDE NEW TREE. (TYP.)

NO.	DATE	REVISIONS

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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	MARCH 2018
File No.:	
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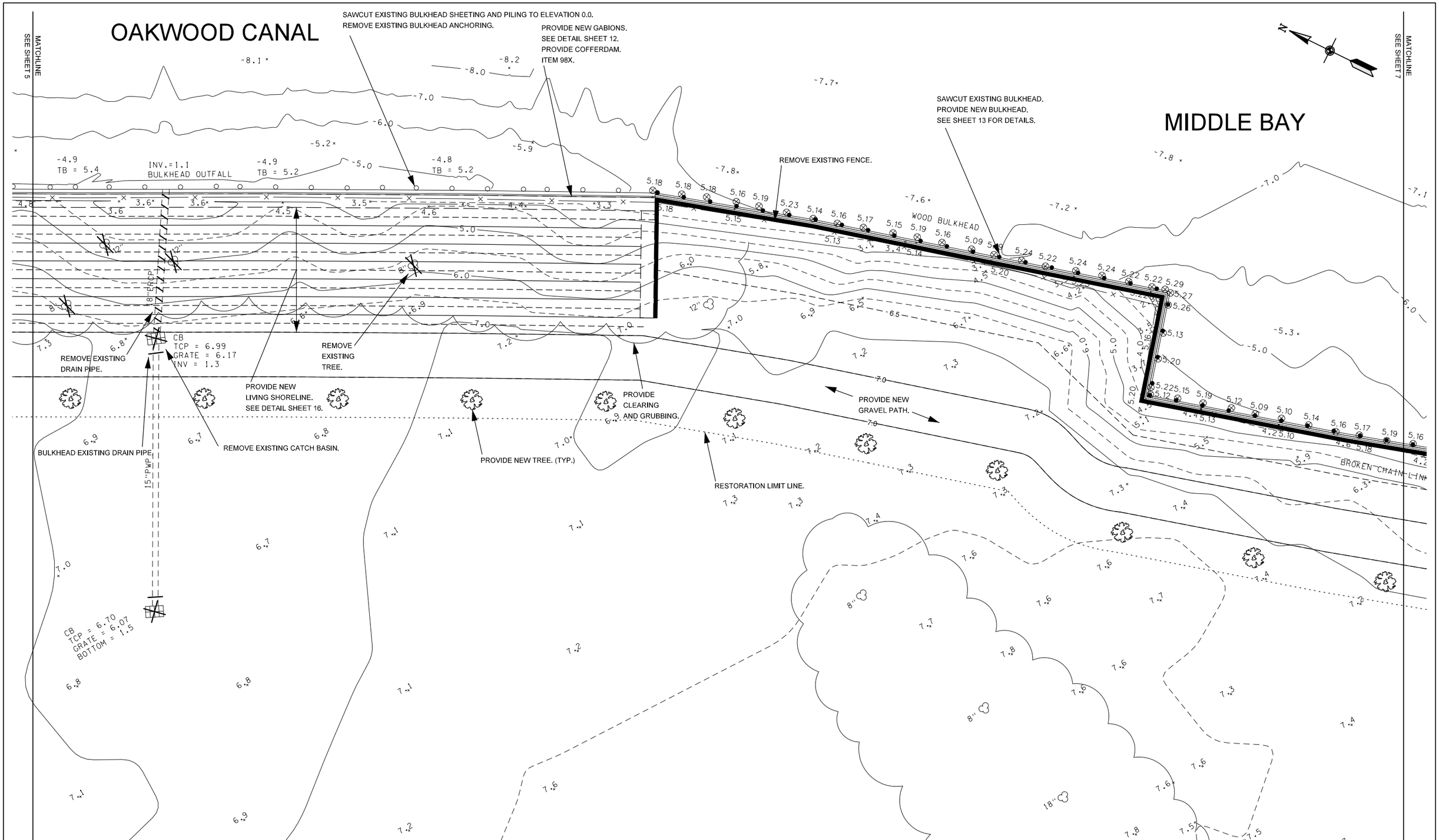
Sheet No.:	5 of 13



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BALDWIN HARBOR PARK
BALDWIN, N.Y.

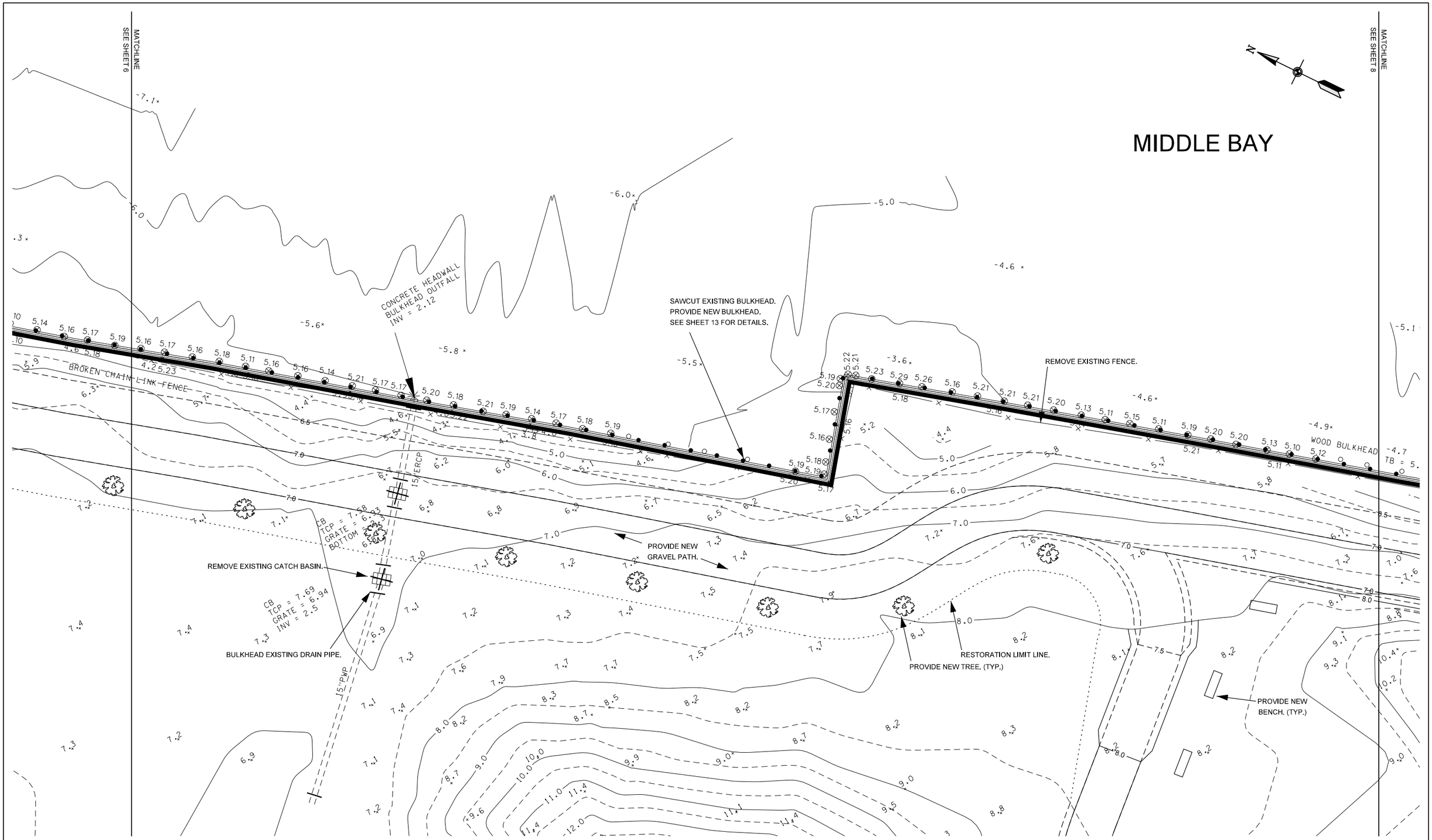
Scale: 1" = 20'

Date: MARCH 2018

File No.:

Dwg No.:

Sheet No.: 6 of 13



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SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

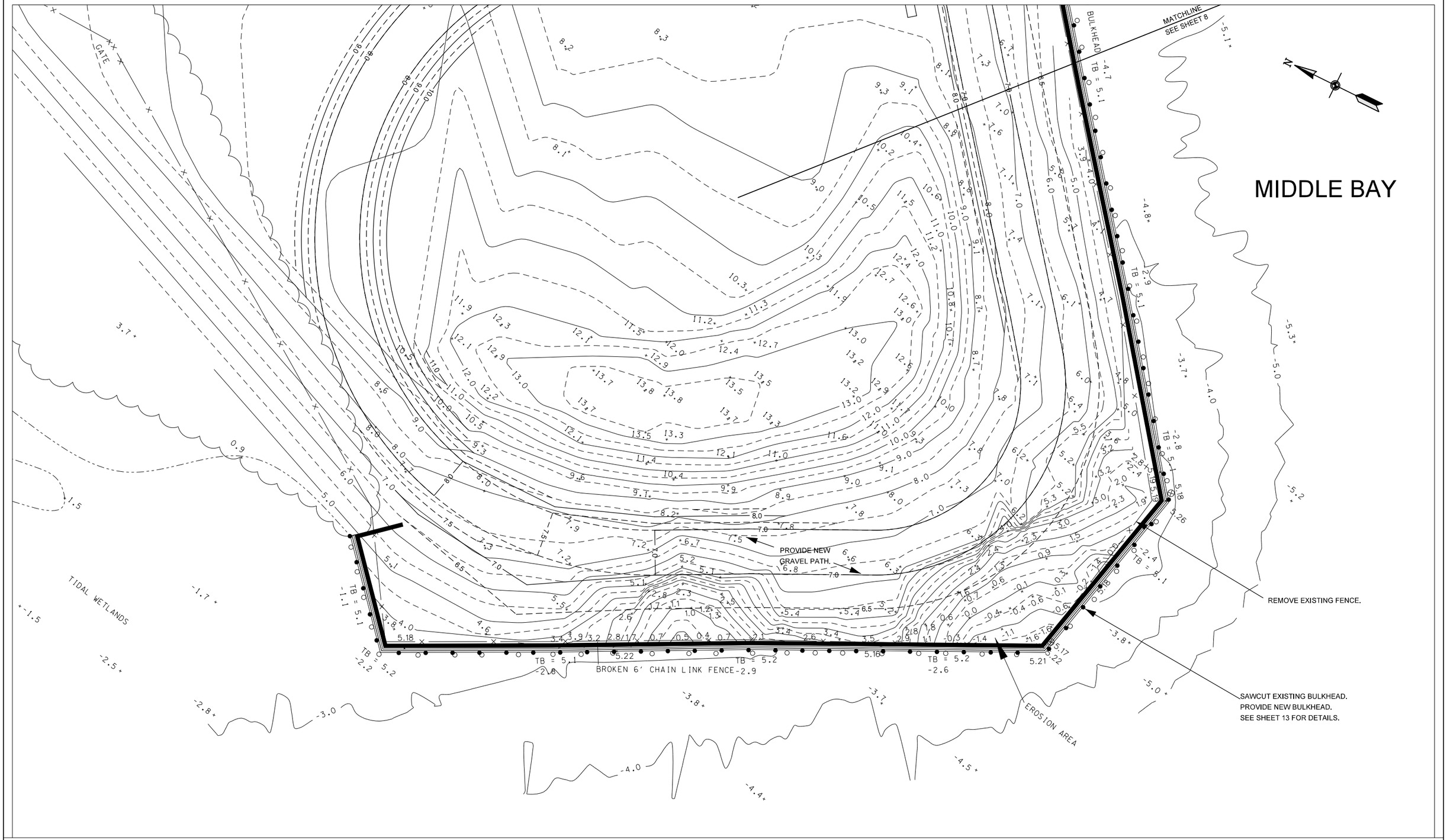
Scale: 1" = 20'

Date: MARCH 2018

File No.:

Dwg No.:

Sheet No.: 7 of 13



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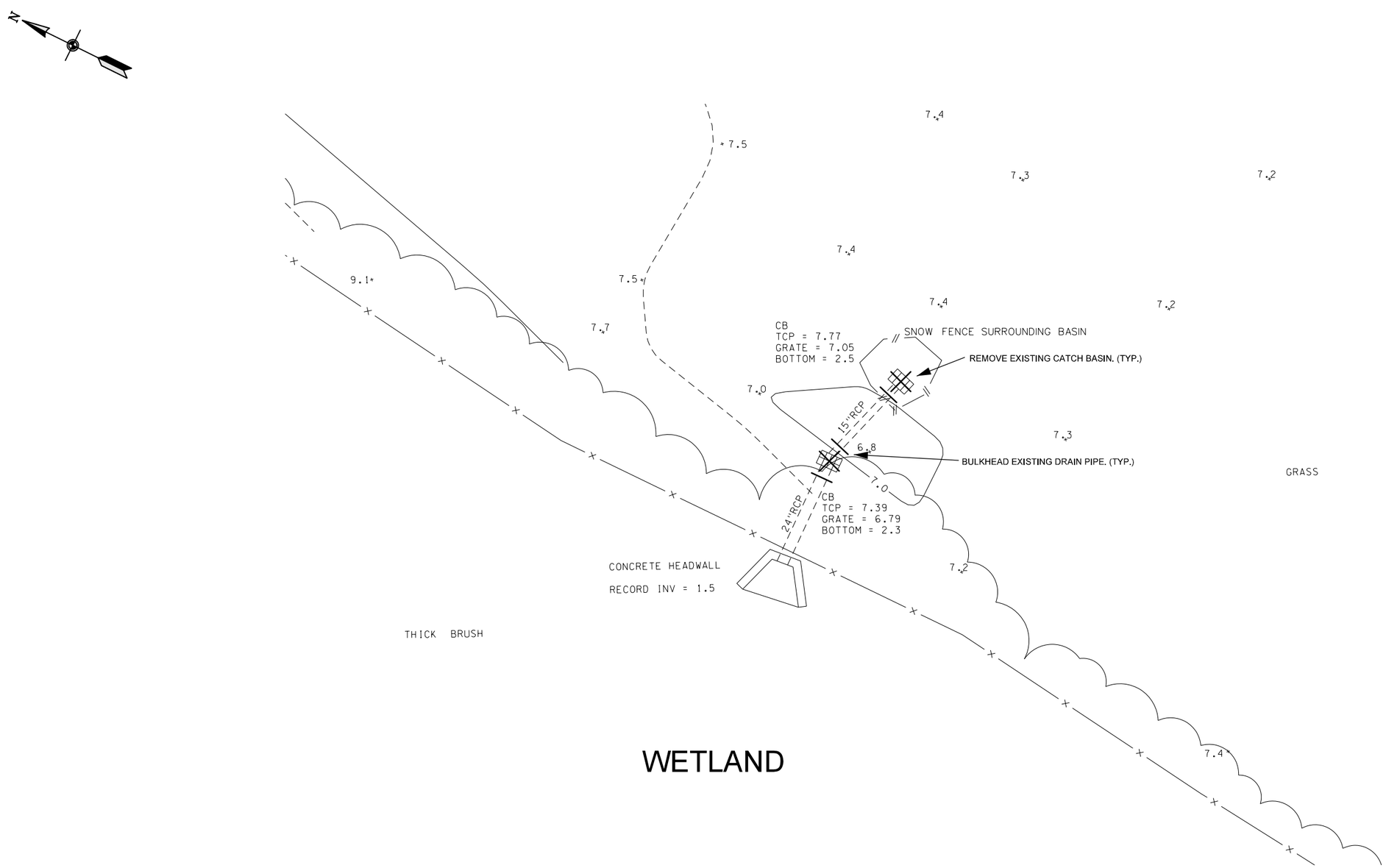
SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	MARCH 2018
File No.:	
Dwg No.:	
Sheet No.:	8 of 13



NOTE: SEE KEY MAP FOR LOCATION DETAILS.

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Design:	J.M.T.
Drawn:	J.M.T.
Checked:	J.M.T.
Reviewed:	D.L.T.

Proposed Contours

Existing Contours

TOWN OF HEMPSTEAD, N.Y. FOUNDED 1644

Department of Engineering

PLAN NOTES:

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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

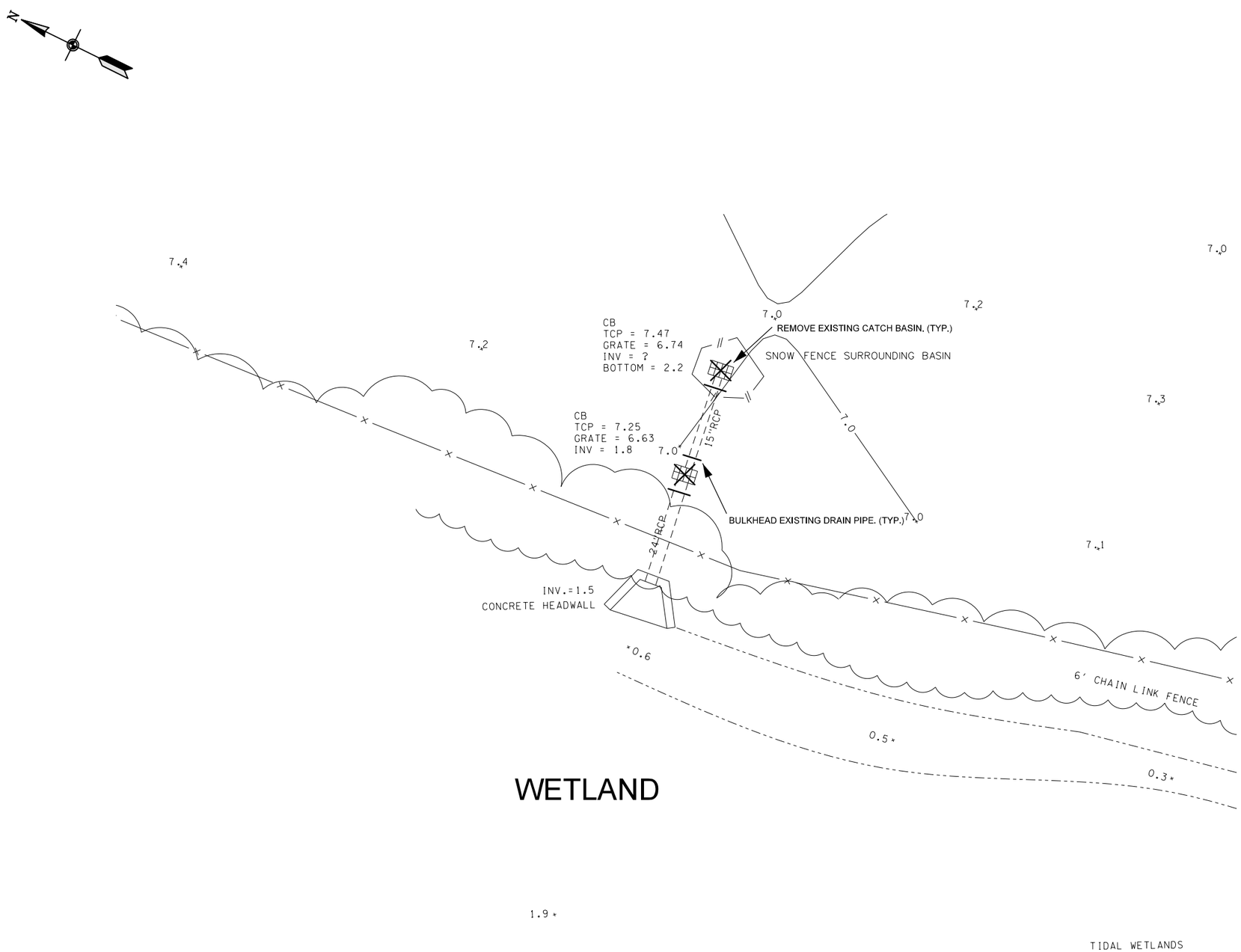
Scale: 1" = 20'

Date: MARCH 2018

File No.:

Dwg No.:

Sheet No.: 9 of 13



NOTE: SEE KEY MAP FOR LOCATION DETAILS.

NO.	DATE	REVISIONS

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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

Date: MARCH 2018

File No.:

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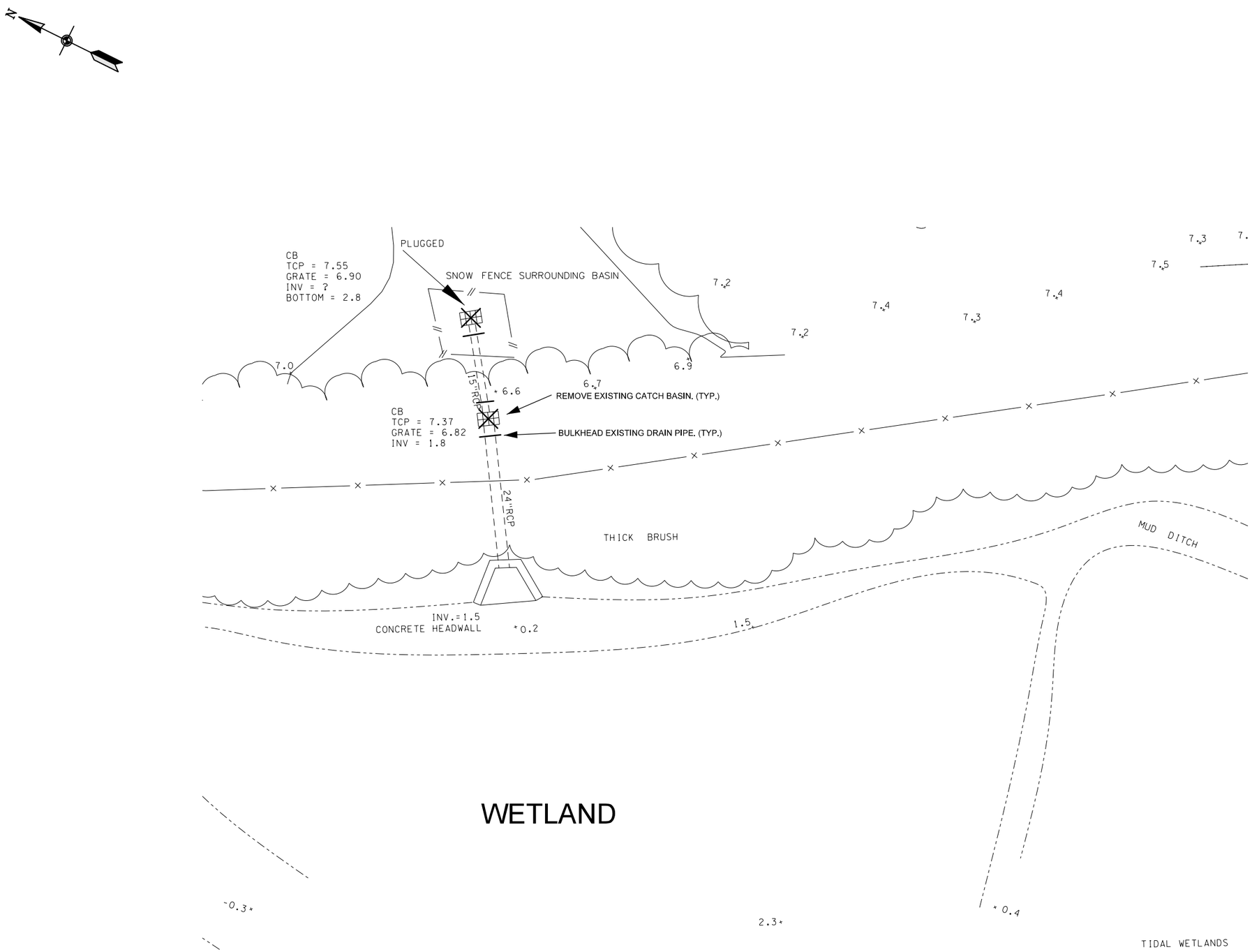
Sheet No.: 10 of 13



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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

Date: MARCH 2018

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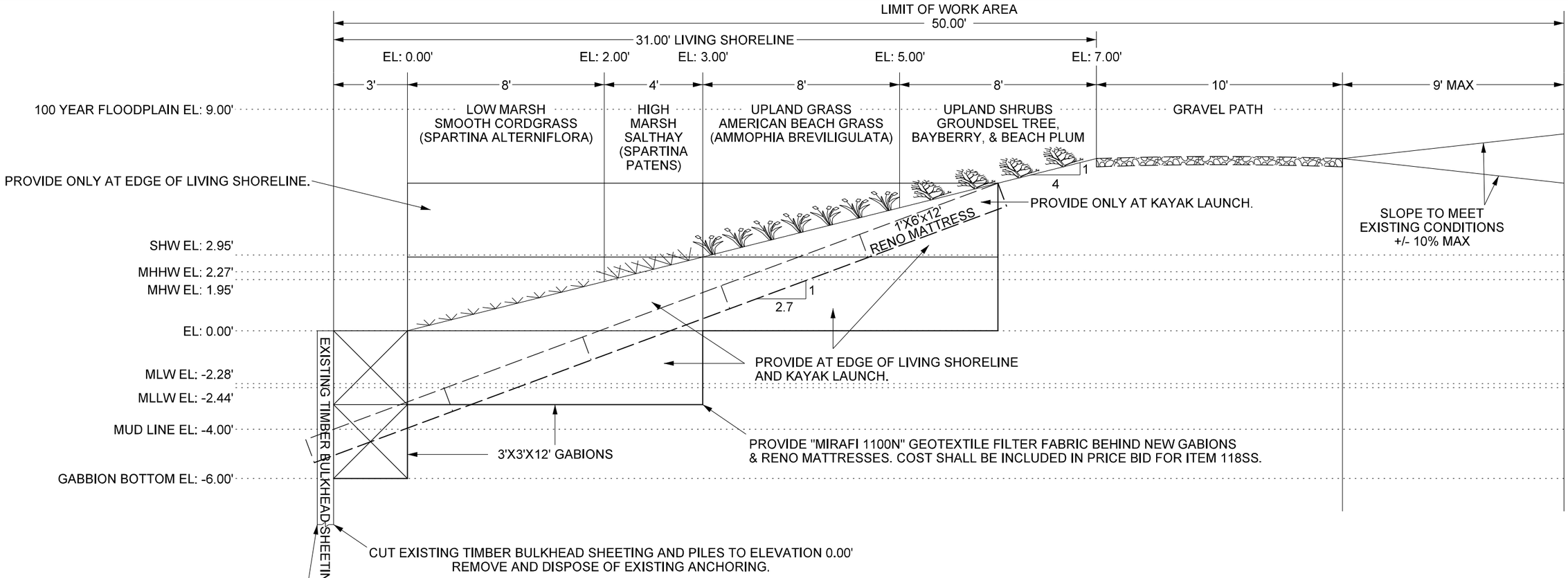
Sheet No.: 11 of 13



NOTE:
CONTRACTOR TO FURNISH, MAINTAIN, AND REMOVE COFFERDAMS AND DEWATERING EQUIPMENT.
THE SELECTION OF MATERIALS, THEIR ARRANGEMENT AND DETAILS SHALL BE THE CONTRACTORS OPTION AND RESPONSIBILITY.
ITEM 98X.

PLANTING SPECIFICATIONS

LOW MARSH:
Smooth Cordgrass (Spartina Alteriflora)
All plants to be Nursery Grown in 2" Peat pots, planted on 18" centers. Stagger rows.

HIGH MARSH:
Saltmeadow Cordgrass (Spartina Patens)
All plants to be Nursery Grown in 2" Peat pots, planted on 18" centers. Stagger rows.

UPLAND GRASS:
American Beachgrass (Ammonphila Breviligulata)
Install on 18" centers. 3 culms/planting unit. Stagger rows.
Fertilize in early spring. 30lbs inorganic nitrogen/acre.

UPLAND SHRUBS:
Groudsel Tree (Baccharis Hamlimifolia)
Bayberry (Myrica Pennsylvanica)
Beach Plum (Prunus Maritima)
All plants to be Nursery Grown, 2 Gallon Minimum. Install on 6' centers.
Fertilize with 1 tablespoon of Osmocote 18-6-12 per planting hole.

NOTE:
Smooth Cordgrass plantings to be installed prior to Saltmeadow Cordgrass plantings to prevent disturbence.
Saltmeadow Cordgrass plantings to be installed prior to upland plantings to prevent disturbence.
All plant installation and seeding to occur between March 15 and May 15 or September 15 to October 15.

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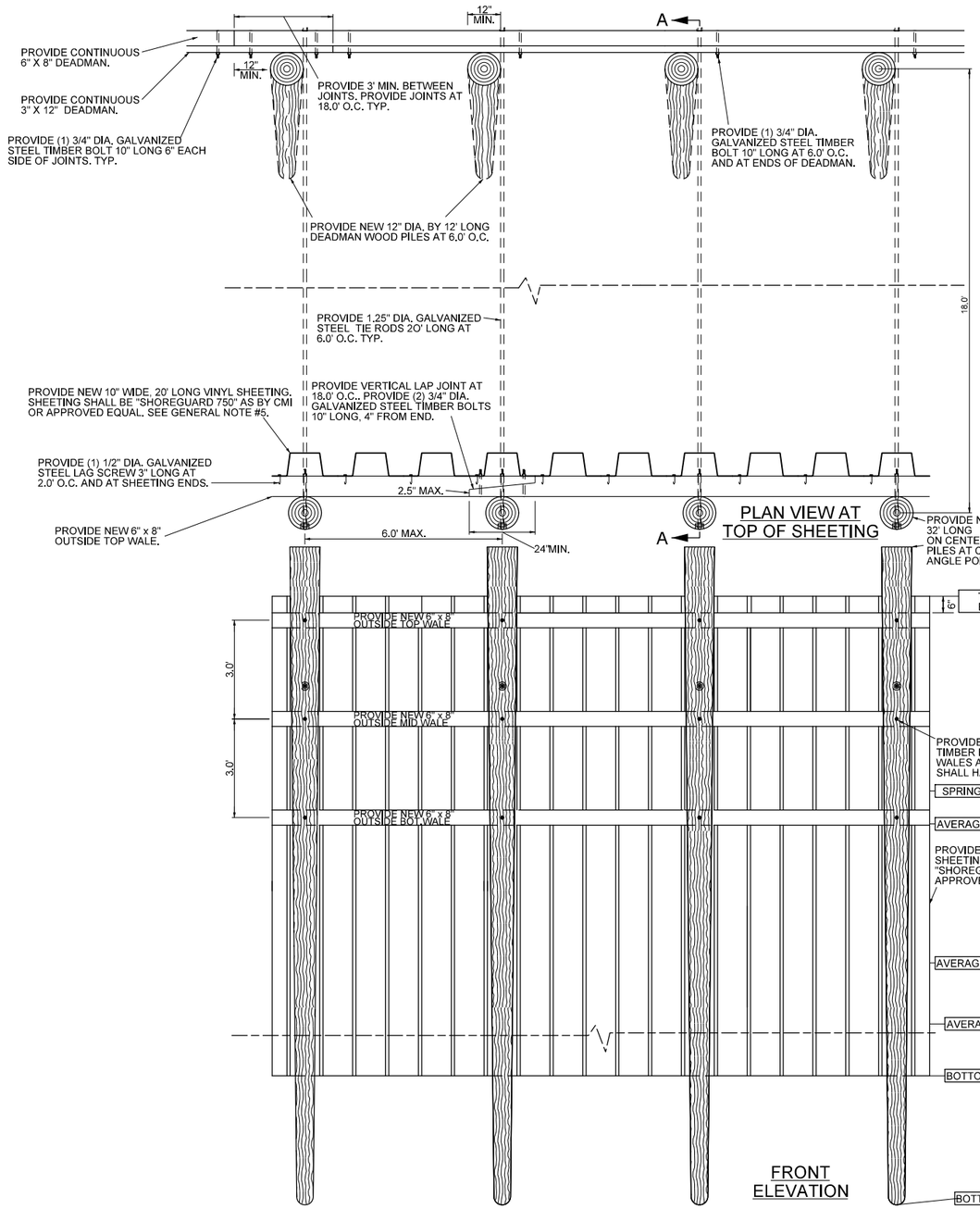
TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
Department of Engineering

LIVING SHORELINE DETAIL

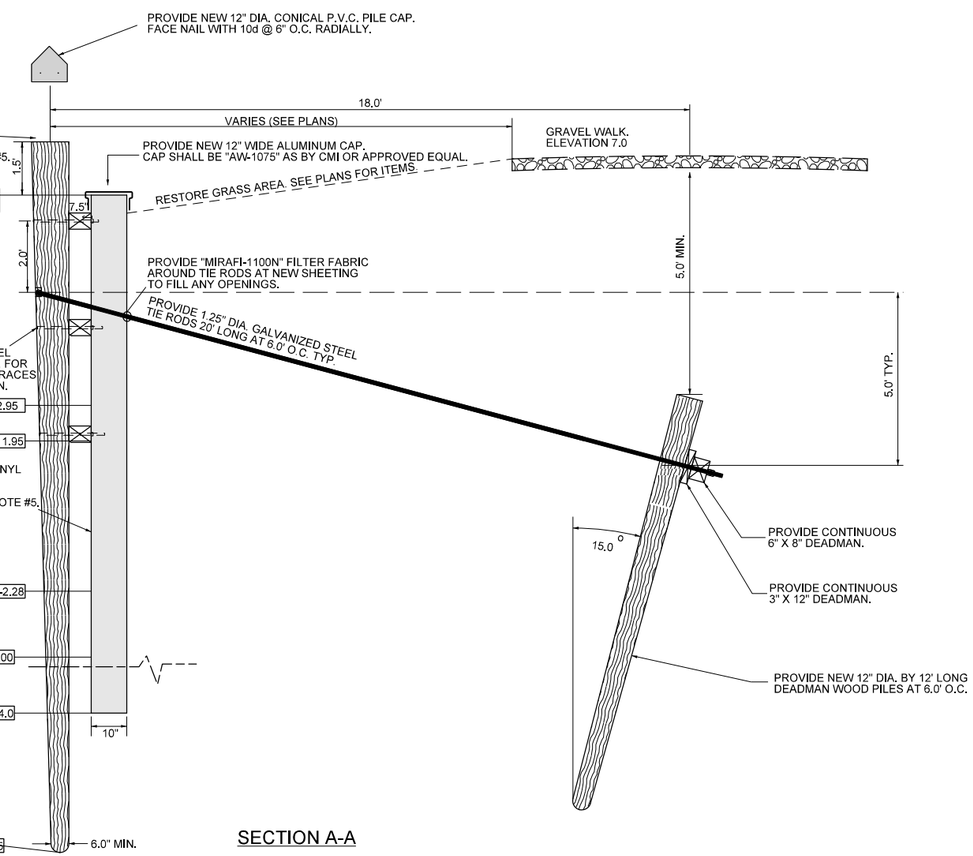
SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: MARCH 2018
File No.:
Dwg No.:
Sheet No.: 12 of 13



ITEM 204X GENERAL NOTES:

1. ALL LUMBER AND TIMBER SIZES INDICATED ARE NOMINAL. ALL DIMENSIONS INDICATED ARE FINISHED.
2. ALL LUMBER AND TIMBER SHALL BE CCA AND PRESSURE TREATED TO OBTAIN A MINIMUM RETENTION OF 2.5 LBS/CF.
3. NEW RETURNS AND CONNECTIONS TO EXISTING BULKHEADS AT LIMITS OF NEW BULKHEAD SHALL BE DETERMINED IN FIELD A.O.B.E.
4. EXISTING BULKHEADS AND EXISTING BULKHEAD ANCHORING COMPONENTS SHALL BE COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 204X.
5. SEE PLANS FOR NEW TOP OF SHEETING ELEVATIONS, NEW SHEETING LENGTHS AND NEW PILE LENGTHS.
6. ALL TIMBER AND CARRIAGE BOLTS SHALL BE PROVIDED WITH ONE N.Y.D.D.WASHER AND NUT AT END.
7. ALL LAG SCREWS SHALL BE PROVIDED WITH ONE N.Y.D.D.WASHER AT HEAD END.
8. ALL TIE RODS SHALL BE PROVIDED WITH TWO N.Y.D.D.WASHERS AND NUTS AT EACH END.
9. ALL BOLTS AND TIE RODS SHALL BE CUT FLUSH AT NUT END WHERE SHOWN AND WHERE NECESSARY TO INSTALL NEW BULKHEAD COMPONENTS.
10. ALL TIE RODS SHALL BE CUT FLUSH AT FRONT OF PILES. NUTS AND WASHERS SHALL BE COUNTERSUNK.
11. ALL HARDWARE AND FASTENERS SHALL BE GALVANIZED STEEL UNLESS OTHERWISE SHOWN AND MEET N.C.D.P.W SPECIFICATIONS.
12. ALL OPENINGS IN NEW SHEETING FOR TIE RODS SHALL BE LIMITED IN SIZE AS FOLLOWS; THRU WALL DIMENSION PLUS ONE INCH.



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TOWN OF HEMPSTEAD, N.Y. FOUNDED 1644
Department of Engineering

BULKHEAD DETAIL

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: MARCH 2018
File No.:
Dwg No.:
Sheet No.: 13 of 13

Attachment 3: SHPO Correspondence

Baldwin Park – Shoreline Stabilization Project

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

ANDREW M. CUOMO
Governor

ROSE HARVEY
Commissioner

December 7, 2018

James McAllister
Governor's Office of Storm Recovery
500 Bi-County Boulevard
Farmingdale, NY 11735

Re: HTF/ GOSR/ HUD CDBG-DR/ Storm resiliency:
Baldwin Park Shoreline Stabilization
Hempstead/ Nassau County
18PR07551

Dear Mr. McAllister:

Thank you for requesting the comments of the New York State Historic Preservation Office (SHPO). We have reviewed the submitted materials in accordance with Title 54, Section 306108 of the National Historic Preservation Act of 1966. These comments are those of the SHPO and relate only to Historic/ Cultural resources. They do not include other environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the National Environmental Policy Act and/or the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8).

Based on this review, it is the opinion of SHPO that there will be No Historic Properties Affected by the proposed undertaking.

If I can be of further assistance, contact me at (518) 268-2187 or Larry.moss@parks.ny.gov

Sincerely,

L Moss

Larry K Moss, Historic Preservation Technical Specialist

CC: Cristy Boyd, CSA Group

Governor's Office of
Storm Recovery

ANDREW M. CUOMO
Governor

January 16, 2019

Chet Brooks, Chief
Delaware Tribe of Indians, Delaware Tribal Headquarters
5100 Tuxedo Blvd
Bartlesville, OK 74006

Re: Section 106 Compliance for the Baldwin Park Shoreline Stabilization Project
Town of Hempstead, Nassau County, NY

Dear Chief Brooks,

Pursuant to the Disaster Relief Appropriations Act, 2013 (Public Law 113-2) and the Housing and Community Development Act (42 U.S.C. §5301 et seq.), the Governor's Office of Storm Recovery (GOSR), is acting under auspices of New York State Homes and Community Renewal's Housing Trust Fund Corporation as a recipient of Community Development Block Grant – Disaster Recovery ("CDBG-DR") funds from the United States Department of Housing and Urban Development ("HUD"). GOSR is the entity responsible for compliance with the HUD environmental review procedures set forth in 24 CFR Part 58. GOSR is acting on behalf of HUD in providing the enclosed project information and inviting this discussion with your Tribe to respond with any concerns or comments.

GOSR processes environmental reviews for projects funded with HUD CDBG-DR on a case-by-case basis. In accordance with Section 101(d)(6)(B) of the National Historic Preservation Act (NHPA) of 1966, as amended (16 U.S.C. 470a), and its implementing regulations, 36 Code of Federal Regulations (CFR) Part 800, this letter serves as notification of the proposed action. This consultation is being sent to the Delaware Nation, Shinnecock Nation, Unkechaug and the Stockbridge-Munsee Community Band of Mohicans.

Area of Potential Effect:
GOSR proposes to provide funding to implement shoreline improvements within the Town of Hempstead's Baldwin Park located at 3232 Grand Avenue, Baldwin, New York. The Proposed Project site is situated within Section 54, Block H, Lot 391, a 14.6-acre parcel formerly occupied by a Board of Cooperative Education Services (BOCES) Facility (see **Attachment 1, Project Location Maps**).

The purpose of the Proposed Project is to implement storm protection measures along the shoreline of Baldwin Park to minimize further erosion and damage that resulted from Superstorm Sandy and other recent storms. The Proposed Project would also provide public waterfront access at Baldwin Park, as well as access to the Blueway Trail, enabling residents to enjoy open space and recreational activities. The Proposed Project would help protect both water quality and a key community natural and cultural asset from future flood risk and erosion and reduce the need for recovery resources following a major storm event. Further, stabilization of this shoreline and the re-establishment of marsh vegetation is expected to attenuate wave energy and reduce the risk of flood damage to the surrounding neighborhoods.

Proposed Project Description
The Proposed Project would include:

- Removal of 1,600 linear feet of existing and compromised timber bulkhead to be replaced by a living shoreline. The living shoreline would consist of an armored toe stabilization set at the mean highwater line designed with large revetment stones protecting a stone core. The living shoreline will make the shoreline more resilient while minimizing the amount of hard features through use of low and high marsh plantings.

- In-place and in-kind replacement of approximately 800 linear feet of existing timber bulkhead; new bulkhead would be set with a top elevation of 5.25, consistent with the existing timber bulkhead elevation.
- Construction of an approximately 0.3-acre gravel parking lot near the northern section of the site.
- Construction of an eight-foot wide gravel pedestrian path.
- Construction of a permanent waterfront landing for non-motorized equipment (canoes and kayaks) for use by the public. (see **Attachment 2, Site Plans)**

On December 1, 2018, the New York State Cultural Resource Information System (CRIS) was reviewed to determine whether any cultural resources were located near the project area. According to the information contained in CRIS, there are no structures, historic districts, landmarks nor other cultural resources of significance situated on or in the immediate vicinity of the project site. Subsequently, a letter was sent to the New York State Historic Preservation Officer (SHPO) requesting consultation. On December 7, 2018, SHPO indicated that there would be No Historic Properties Affected by the undertaking (see **Attachment 3 for SHPO response letter)**.

GOSR is completing an environmental review for this project pursuant to HUD NEPA regulations. If the Area of Potential Effects encompasses historic properties of religious or cultural significance to your Tribe, please respond within 30 days or sooner. Additionally, please indicate if there are other sources of information or other parties, Nations, Tribes, or members of the public you believe should be included in the consultation process. Please respond by email or in writing to the address listed below.

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, N.Y. 11735

I am available to answer any questions that you may have regarding this action. 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
Senior Environmental Project Manager
Bureau of Environmental Review and Assessment
Governor's Office of Storm Recovery

Enclosures:
Attachment 1: Project Location Maps
Attachment 2: Site Plans
Attachment 3: SHPO Correspondence

Electronic letter sent to:
Susan Bachor
Delaware Tribe of Indians Historic Preservation Representative
P.O. Box 64
Pocono Lake, PA 73005
temple@delawaretribe.org

Attachment 1: Project Location Maps

Baldwin Park – Shoreline Stabilization Project

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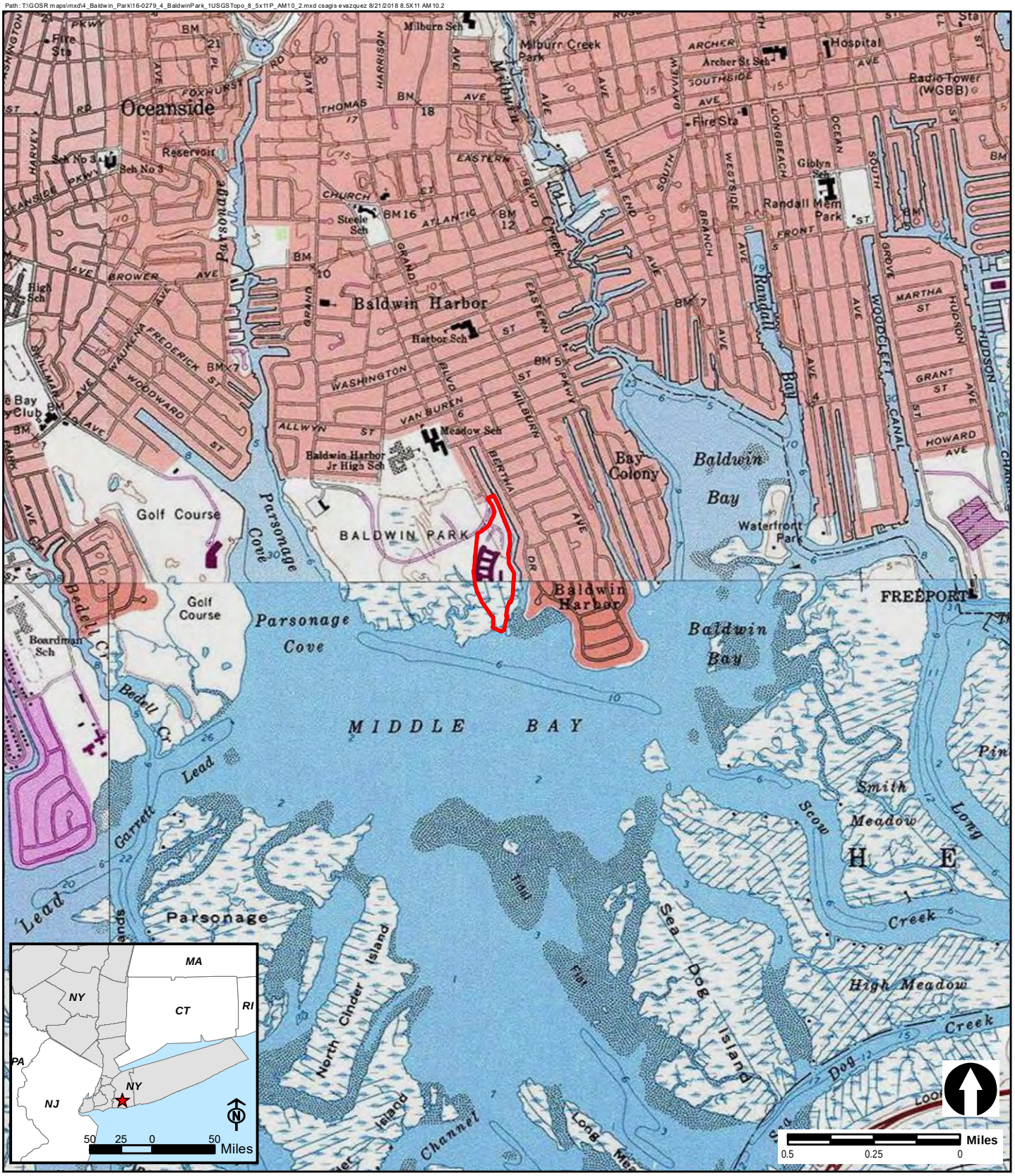

Project Site

Figure 1

USGS Regional Location

Baldwin Park Shoreline Stabilization Project

Hempstead, Nassau County, NY

Source: USGS Topgraphic Map, Far Rockaway Quadrangle
Copyright:© 2013 National Geographic Society, i-cubed
(http://server.arcgisonline.com/ArcGIS/rest/services/
USA_Topo_Maps/MapServer)

CSAGROUP
EST • 1956

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Project Site
Living Shoreline
Bulkhead

Figure 2

Project Area

Baldwin Park Shoreline Stabilization Project

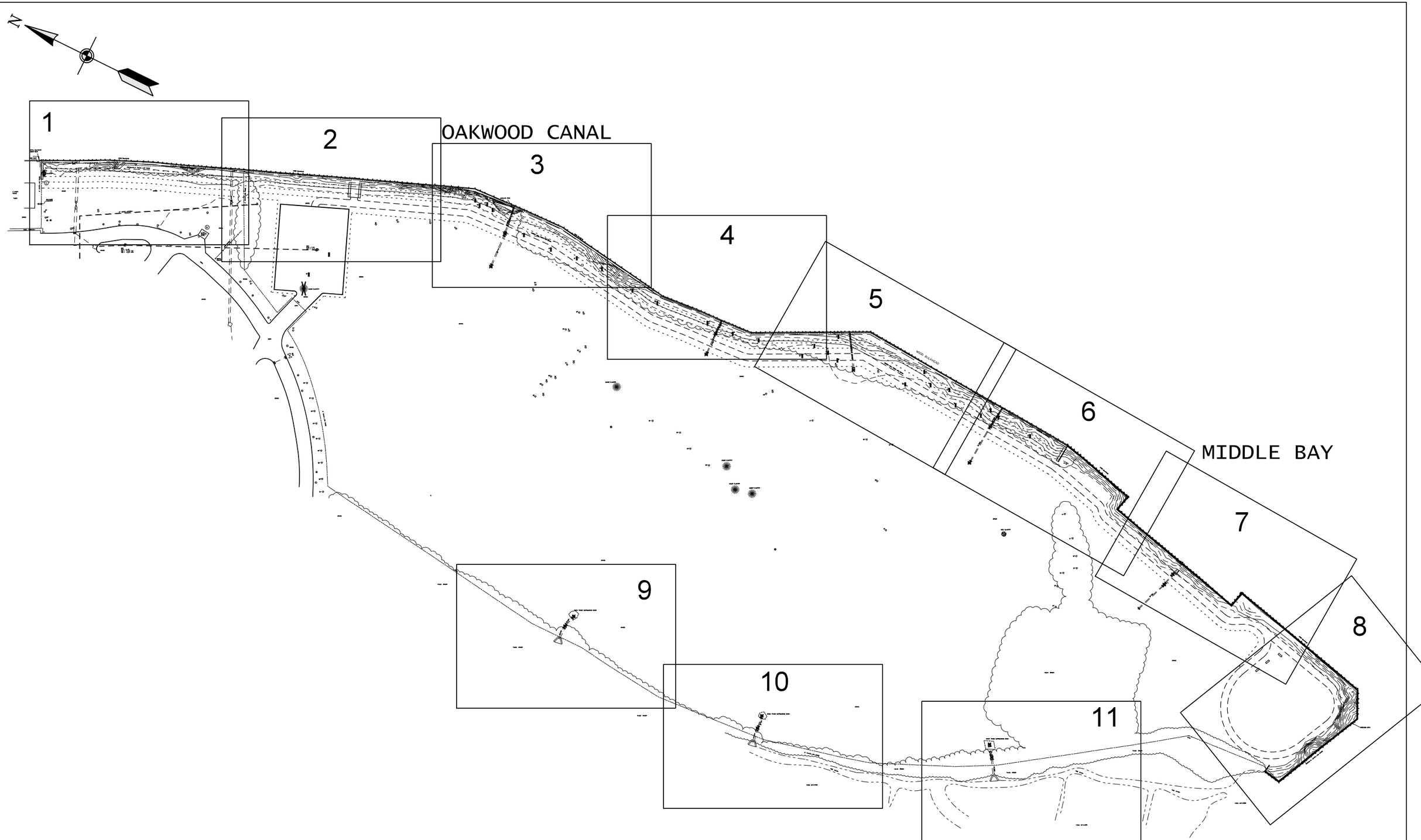
Hempstead, Nassau County, NY

Source: New York State Department of Transportation, 2013;
ESRI World Imagery

CSAGROUP EST. 1956

Attachment 2: Site Plans

Baldwin Park – Shoreline Stabilization Project



NO.	DATE	REVISIONS

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TOWN OF HEMPSTEAD N.Y. FOUNDED 1644

Department of Engineering

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KEY MAP

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:

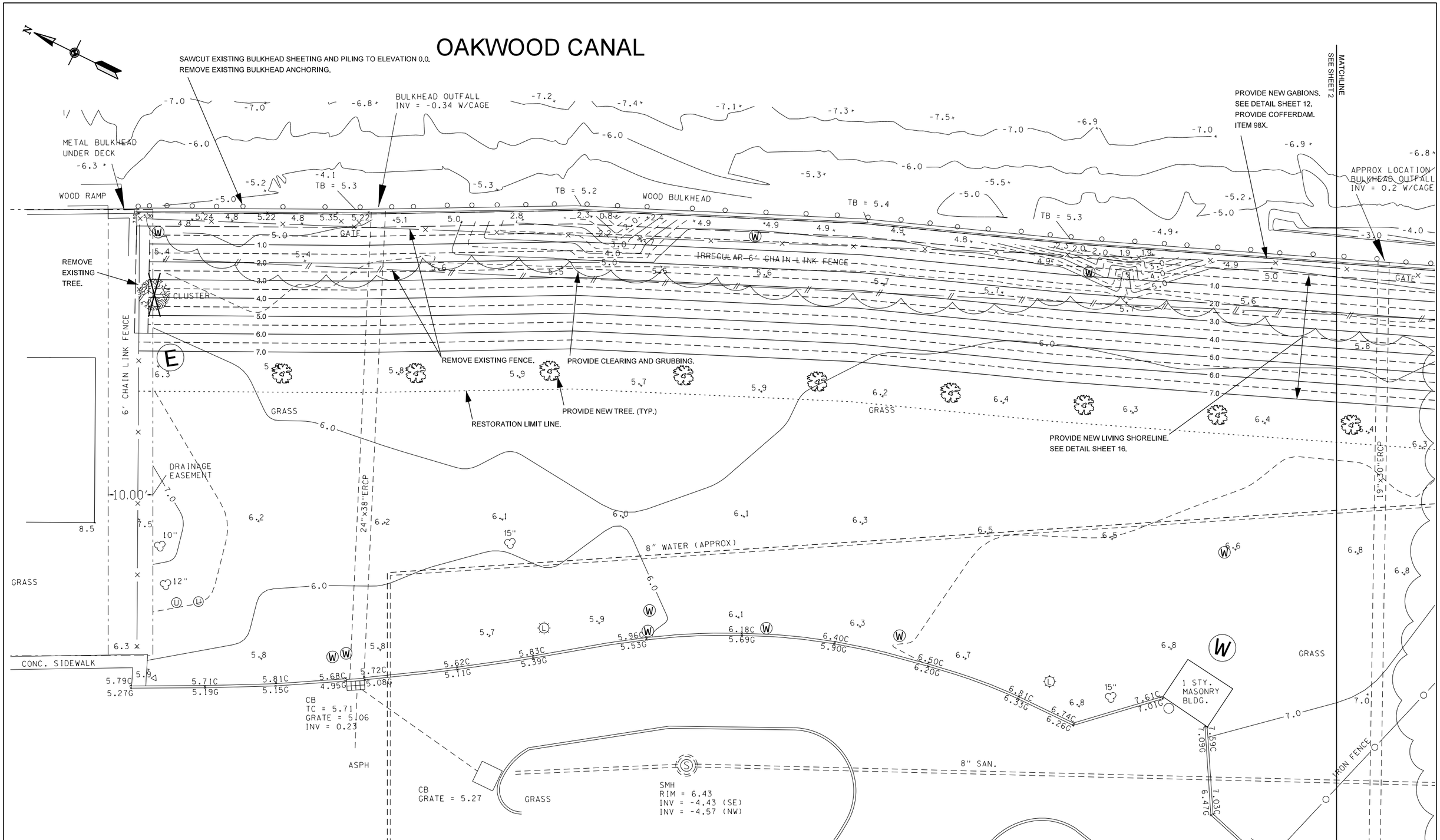
Date: MARCH 2018

File No.:

Dwg No.:

Sheet No.: of

OAKWOOD CANAL



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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

Date: MARCH 2018

File No.:

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Sheet No.: 1 of 13

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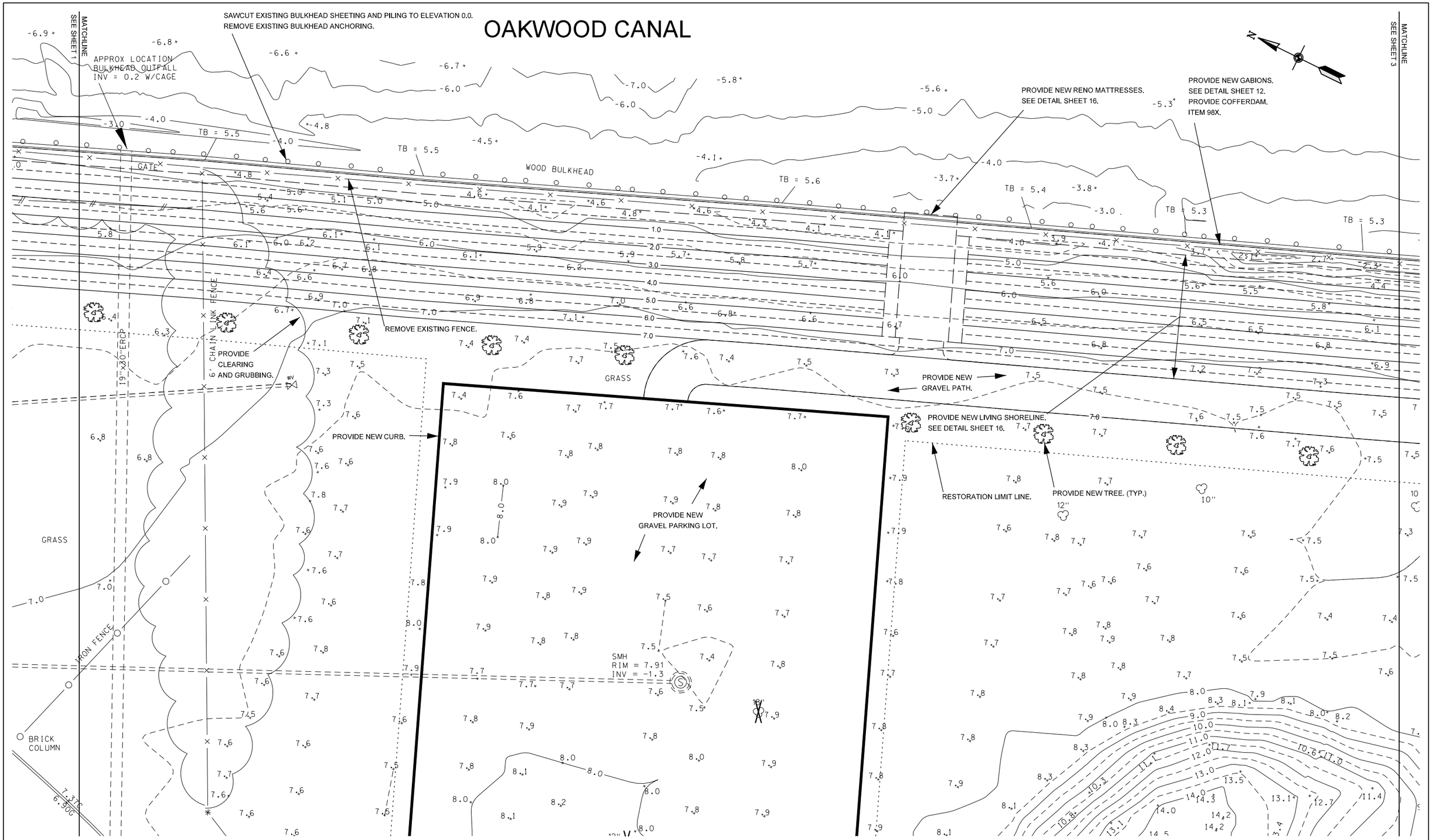

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BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	MARCH 2018
File No.:	
Dwg No.:	
Sheet No.:	2 of 13

OAKWOOD CANAL

MATCHLINE SEE SHEET 2

MATCHLINE SEE SHEET 4

TB = 5.3

TB = 5.4

TB = 5.2

TB = 5.5

TB = 5.2

TB = 5.

REMOVE EXISTING FENCE.

PROVIDE NEW TREE. (TYP.)

PROVIDE NEW GRAVEL PATH.

BULKHEAD EXISTING DRAIN PIPE.

RESTORATION LIMIT LINE.

REMOVE EXISTING CATCH BASIN.

REMOVE EXISTING DRAIN PIPE.

PROVIDE CLEARING AND GRUBBING.

EROSION AREA

CONCRETE HEADWALL BULKHEAD OUTFALL INV = 1.4

SAWCUT EXISTING BULKHEAD SHEETING AND PILING TO ELEVATION 0.0. REMOVE EXISTING BULKHEAD ANCHORING.

PROVIDE NEW GABIONS. SEE DETAIL SHEET 12. PROVIDE COFFERDAM. ITEM 98X.

WOODED AREA TREES AND BRUSH

WOOD BULKHEAD

REMOVE EXISTING TREE.

PROVIDE NEW LIVING SHORELINE. SEE DETAIL SHEET 16.

GB
TCP = 7.00
GRATE = 6.22
INV = 1.36

CB
GRATE = 6.12
INV = 2.00

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BALDWIN, N.Y.

Scale: 1" = 20'

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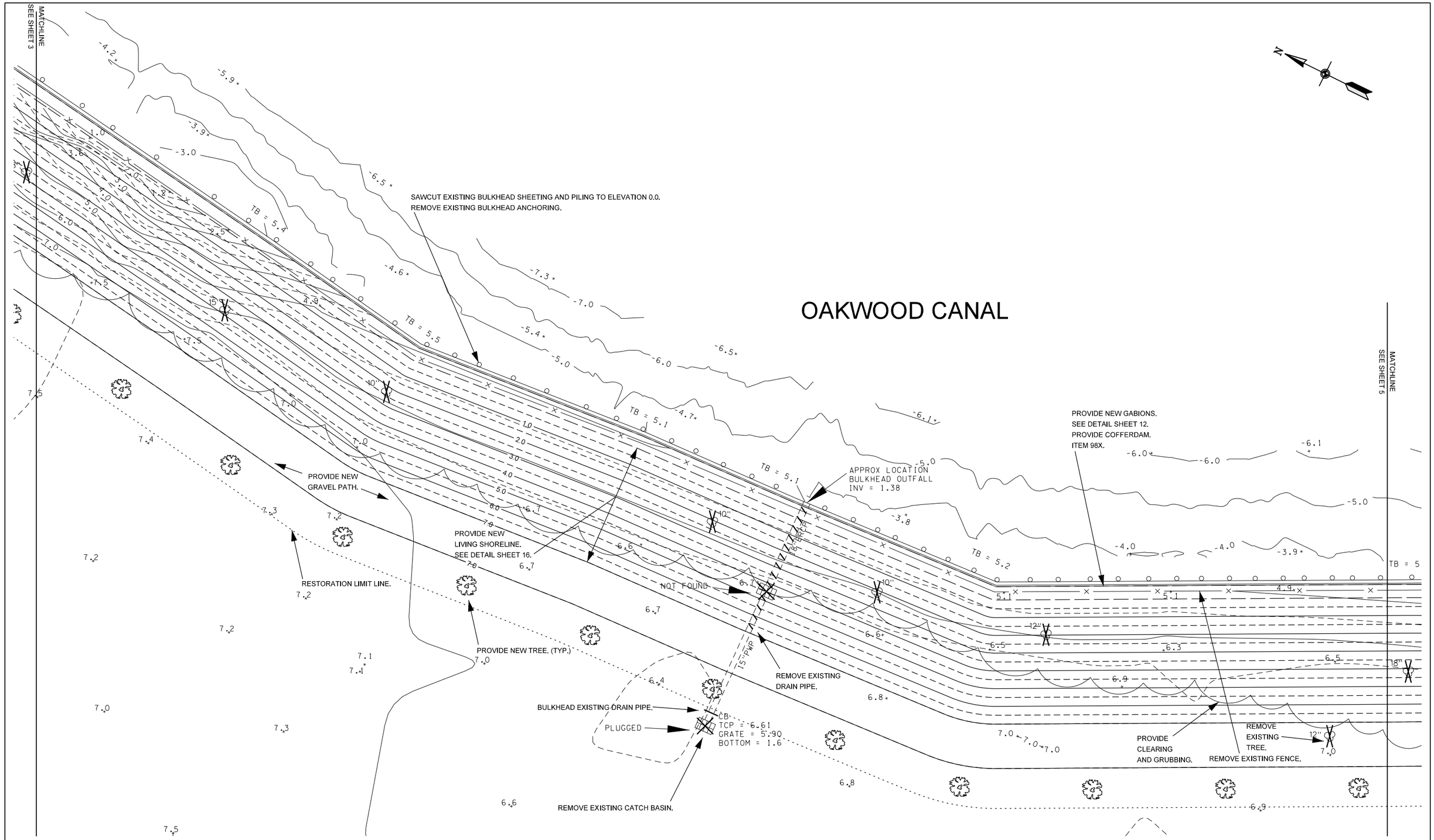
Sheet No.: 3 of 13



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SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

Date: MARCH 2018

File No.:

Dwg No.:

Sheet No.: 4 of 13

OAKWOOD CANAL

SAWCUT EXISTING BULKHEAD SHEETING AND PILING TO ELEVATION 0.0.
REMOVE EXISTING BULKHEAD ANCHORING.

PROVIDE NEW GABIONS.
SEE DETAIL SHEET 12.
PROVIDE COFFERDAM.
ITEM 98X.

MATCHLINE
SEE SHEET 5

MATCHLINE
SEE SHEET 4

WOOD BULKHEAD

APPROX LOCATION
BULKHEAD OUTFALL
INV = 2.50

REMOVE EXISTING FENCE.

WOODED AREA TREES AND BRUSH

PROVIDE NEW
GRAVEL PATH.

REMOVE EXISTING
DRAIN PIPE.

REMOVE
EXISTING
TREE.

CB
GRATE = 5.85'

REMOVE EXISTING CATCH BASIN.

BULKHEAD EXISTING DRAIN PIPE.

PROVIDE
CLEARING
AND GRUBBING.

RESTORATION LIMIT LINE.

PROVIDE NEW
LIVING SHORELINE.
SEE DETAIL SHEET 16.

PROVIDE NEW TREE. (TYP.)

NO.	DATE	REVISIONS

In Charge:	D.L.T.
Compilation:	J.M.T.
Design:	J.M.T.
Drawn:	J.M.T.
Checked:	J.M.T.
Reviewed:	D.L.T.

Proposed Contours

Existing Contours

TOWN OF HEMPSTEAD N.Y. FOUNDED 1644

Department of Engineering

PLAN NOTES:

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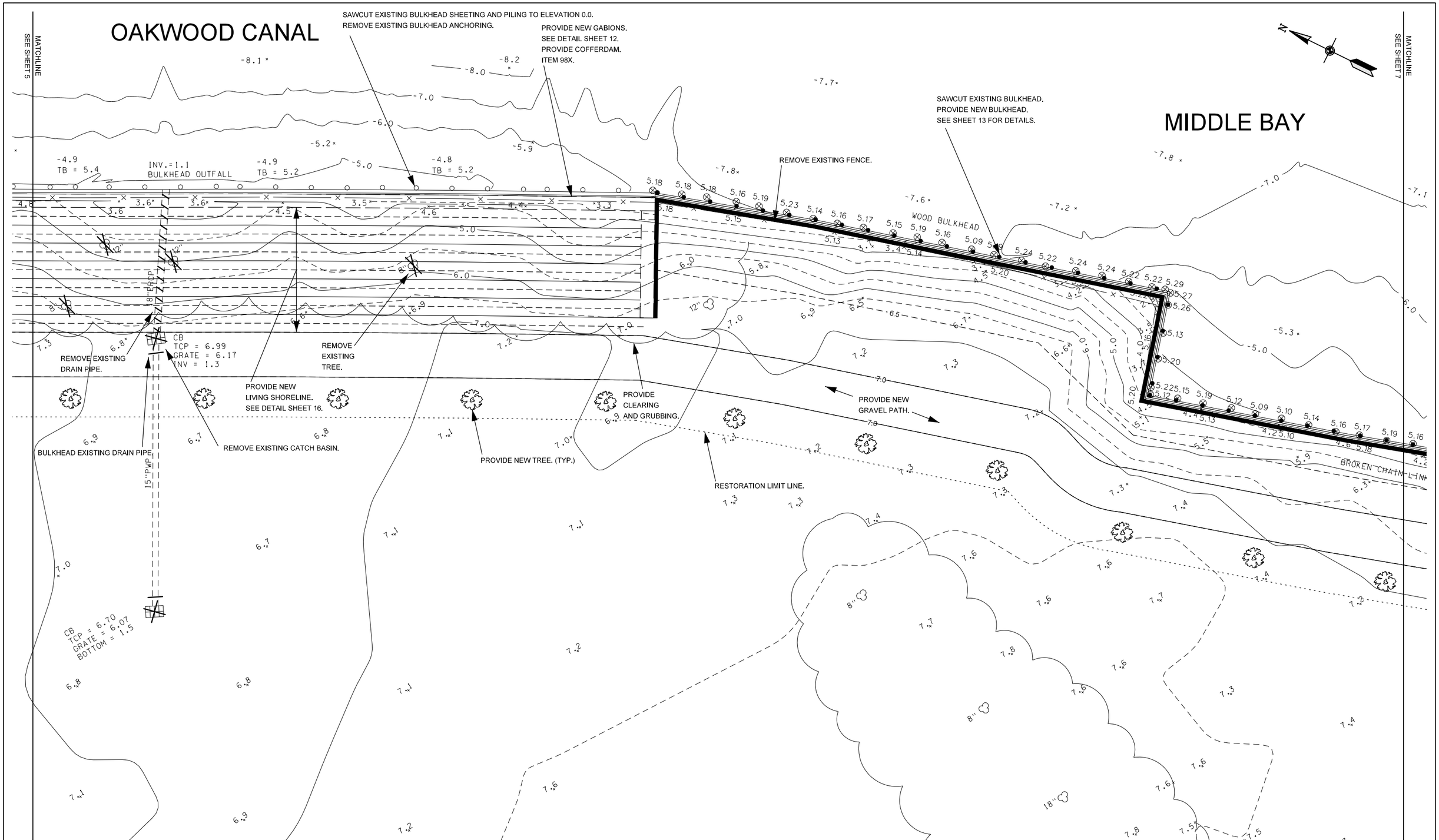
BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	MARCH 2018
File No.:	
Dwg No.:	
Sheet No.:	5 of 13



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BALDWIN HARBOR PARK PLAN

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BALDWIN HARBOR PARK
BALDWIN, N.Y.

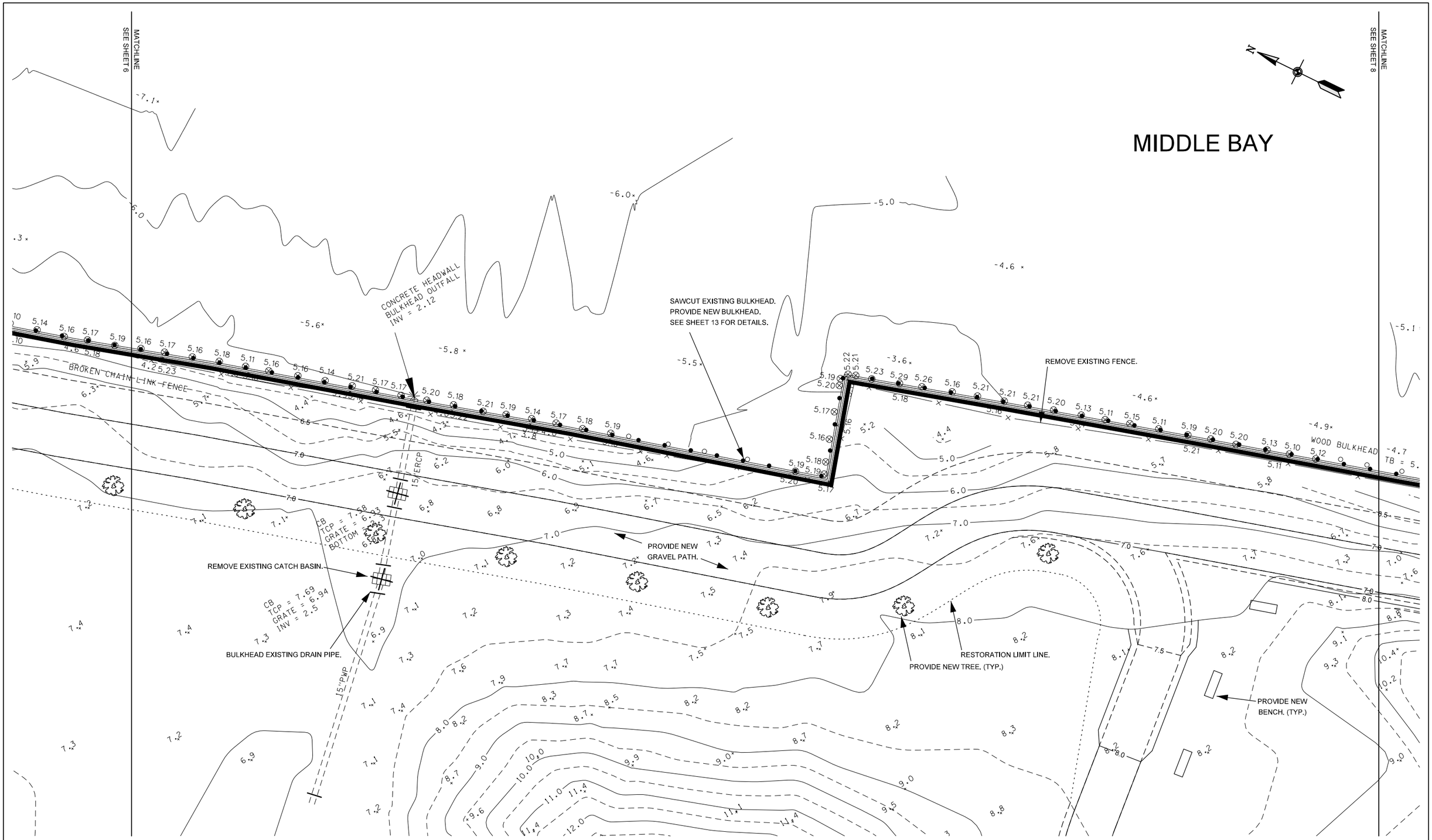
Scale: 1" = 20'

Date: MARCH 2018

File No.:

Dwg No.:

Sheet No.: 6 of 13



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BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

Date: MARCH 2018

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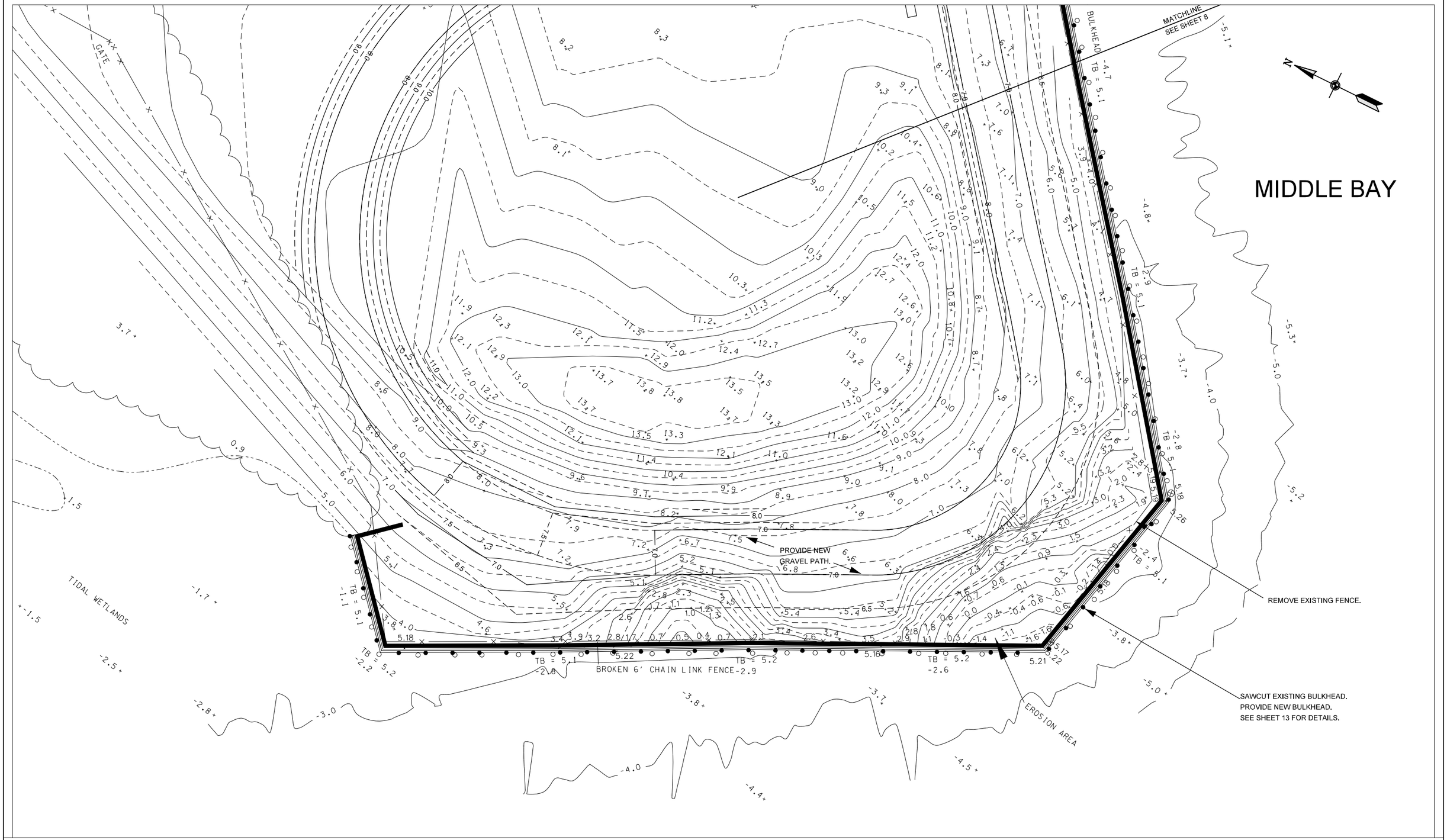
Sheet No.: 7 of 13



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BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
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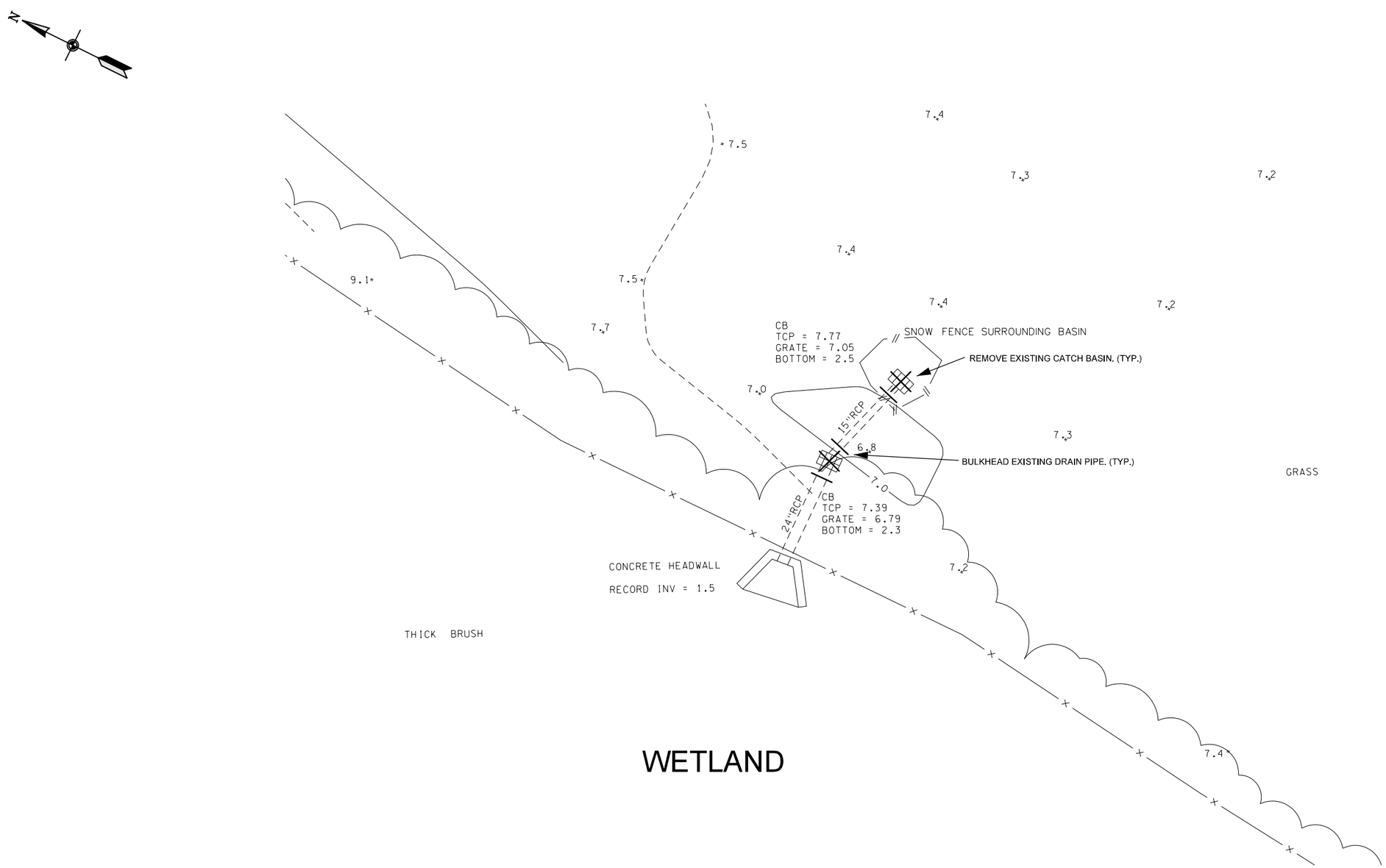

NOTE: SEE KEY MAP FOR LOCATION DETAILS.

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BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

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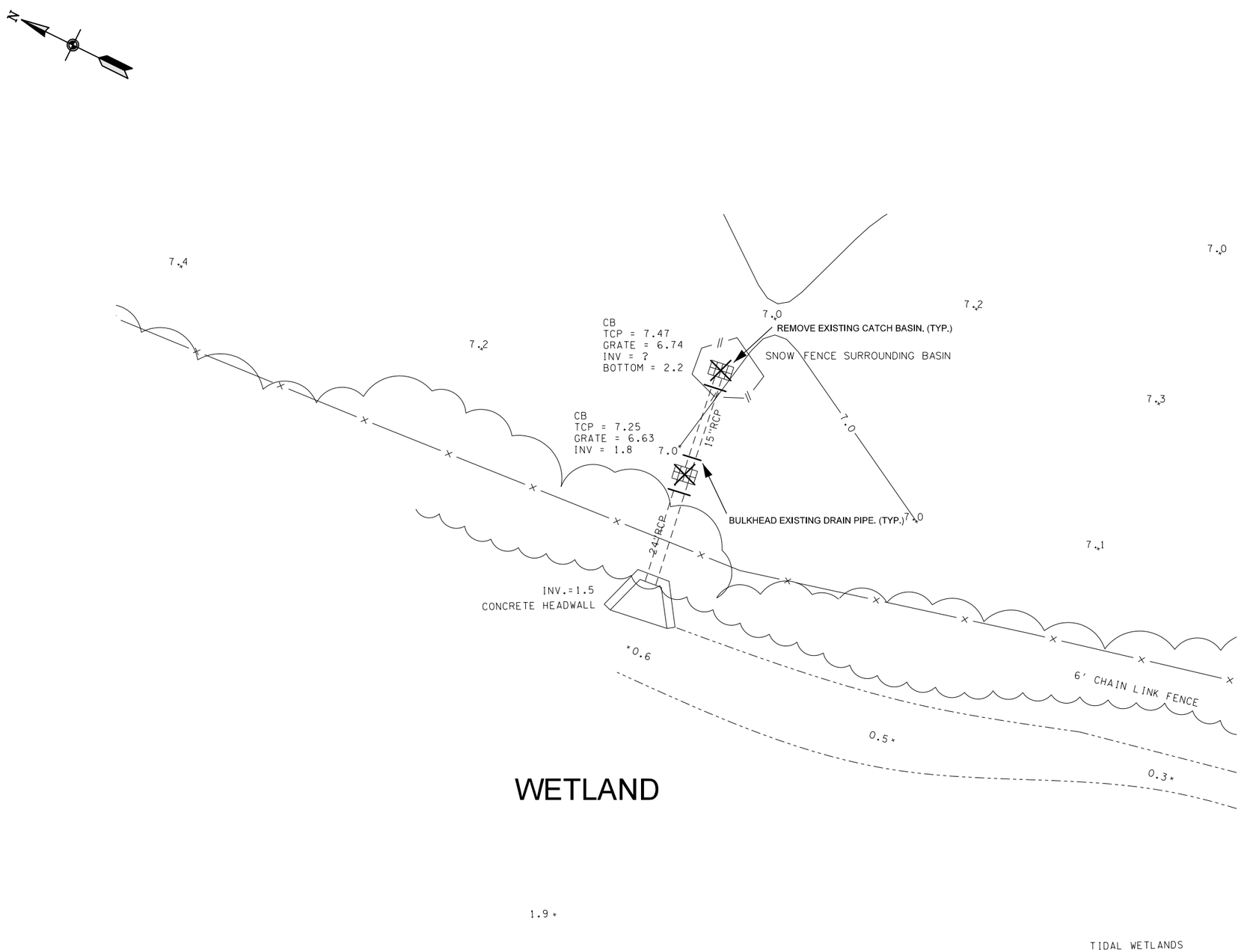

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BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

Date: MARCH 2018

File No.:

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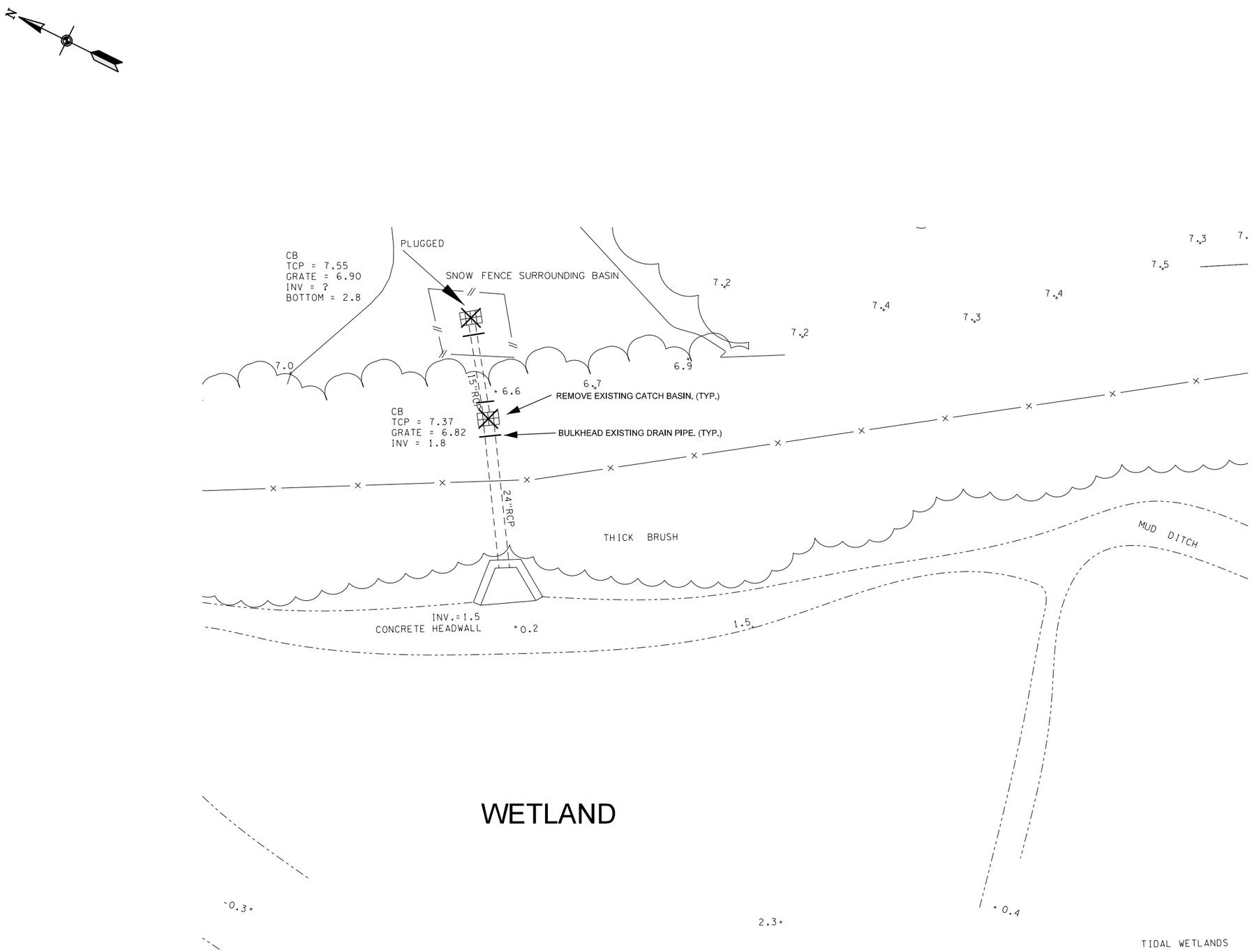
Sheet No.: 10 of 13



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SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

Date: MARCH 2018

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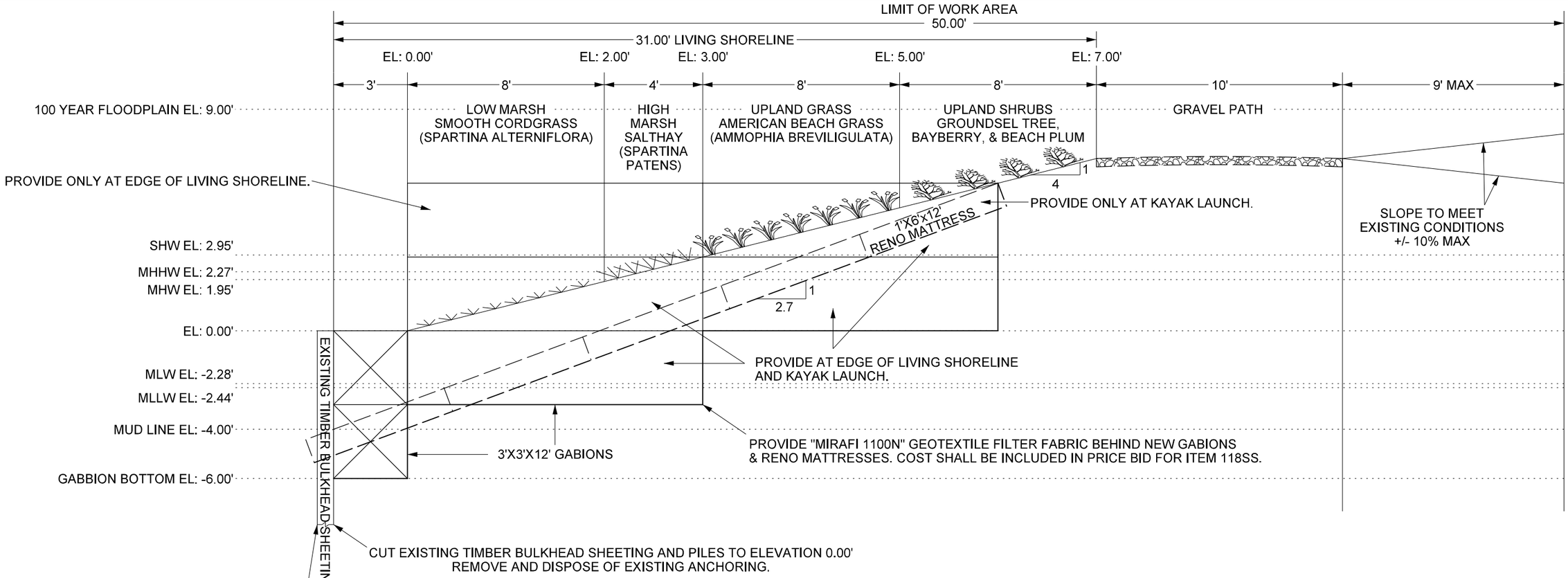
Sheet No.: 11 of 13



NOTE:
CONTRACTOR TO FURNISH, MAINTAIN, AND REMOVE COFFERDAMS AND DEWATERING EQUIPMENT.
THE SELECTION OF MATERIALS, THEIR ARRANGEMENT AND DETAILS SHALL BE THE CONTRACTORS OPTION AND RESPONSIBILITY.
ITEM 98X.

PLANTING SPECIFICATIONS

LOW MARSH:
Smooth Cordgrass (Spartina Alteriflora)
All plants to be Nursery Grown in 2" Peat pots, planted on 18" centers. Stagger rows.

HIGH MARSH:
Saltmeadow Cordgrass (Spartina Patens)
All plants to be Nursery Grown in 2" Peat pots, planted on 18" centers. Stagger rows.

UPLAND GRASS:
American Beachgrass (Ammonphila Breviligulata)
Install on 18" centers. 3 culms/planting unit. Stagger rows.
Fertilize in early spring. 30lbs inorganic nitrogen/acre.

UPLAND SHRUBS:
Groudsel Tree (Baccharis Hamlimifolia)
Bayberry (Myrica Pennsylvanica)
Beach Plum (Prunus Maritima)
All plants to be Nursery Grown, 2 Gallon Minimum. Install on 6' centers.
Fertilize with 1 tablespoon of Osmocote 18-6-12 per planting hole.

NOTE:
Smooth Cordgrass plantings to be installed prior to Saltmeadow Cordgrass plantings to prevent disturbence.
Saltmeadow Cordgrass plantings to be installed prior to upland plantings to prevent disturbence.
All plant installation and seeding to occur between March 15 and May 15 or September 15 to October 15.

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TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
Department of Engineering

LIVING SHORELINE DETAIL

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: MARCH 2018
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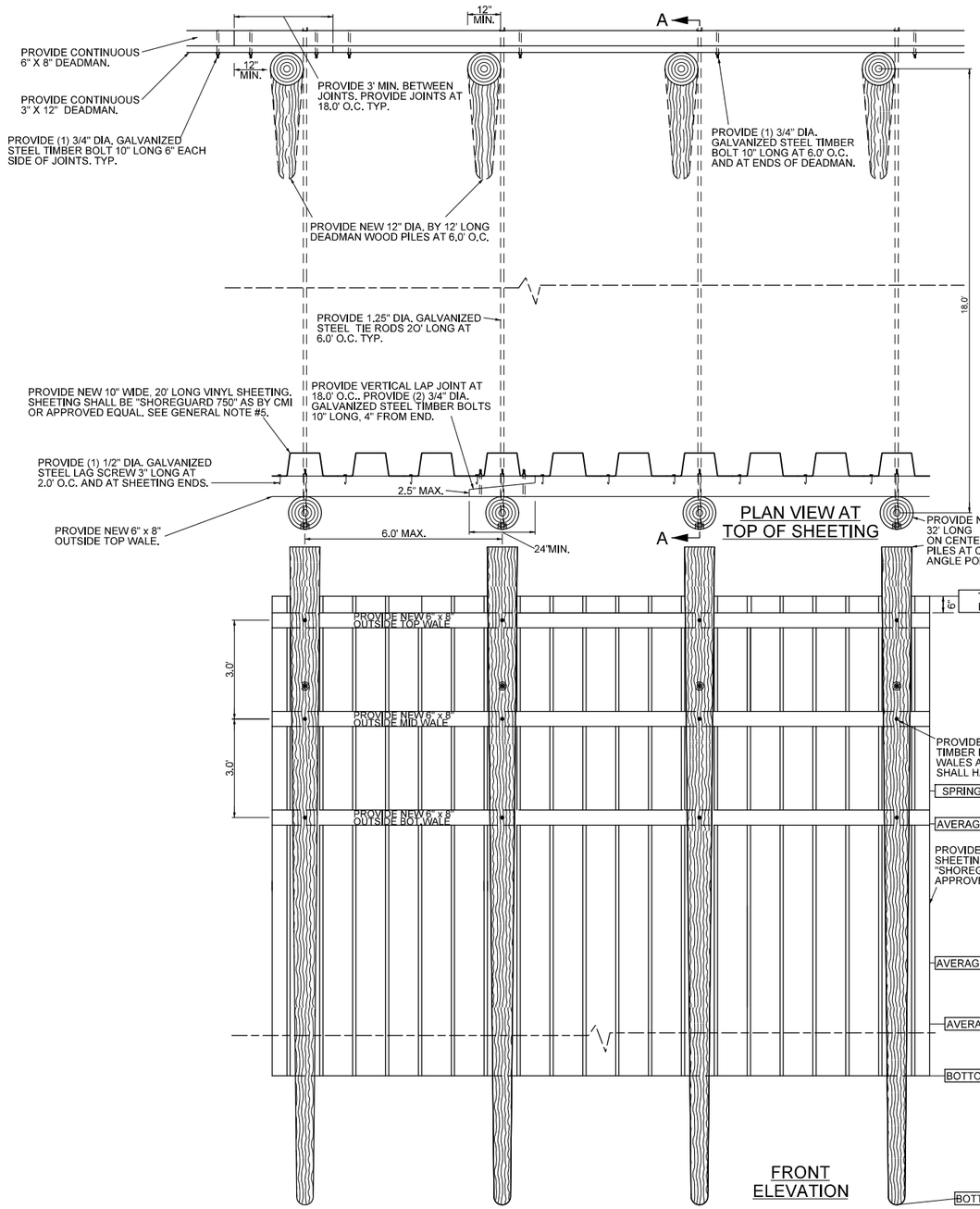
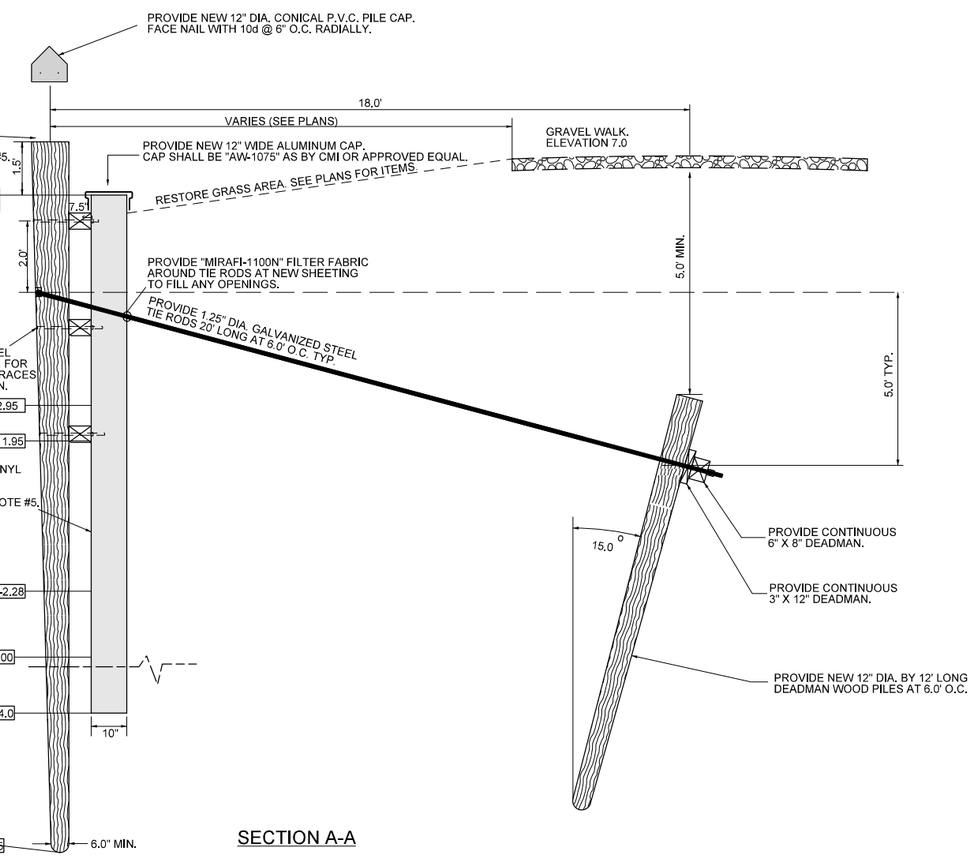
Sheet No.: 12 of 13



ITEM 204X GENERAL NOTES:

1. ALL LUMBER AND TIMBER SIZES INDICATED ARE NOMINAL. ALL DIMENSIONS INDICATED ARE FINISHED.
2. ALL LUMBER AND TIMBER SHALL BE CCA AND PRESSURE TREATED TO OBTAIN A MINIMUM RETENTION OF 2.5 LBS/CF.
3. NEW RETURNS AND CONNECTIONS TO EXISTING BULKHEADS AT LIMITS OF NEW BULKHEAD SHALL BE DETERMINED IN FIELD A.O.B.E.
4. EXISTING BULKHEADS AND EXISTING BULKHEAD ANCHORING COMPONENTS SHALL BE COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 204X.
5. SEE PLANS FOR NEW TOP OF SHEETING ELEVATIONS, NEW SHEETING LENGTHS AND NEW PILE LENGTHS.
6. ALL TIMBER AND CARRIAGE BOLTS SHALL BE PROVIDED WITH ONE N.Y.D.D.WASHER AND NUT AT END.
7. ALL LAG SCREWS SHALL BE PROVIDED WITH ONE N.Y.D.D.WASHER AT HEAD END.
8. ALL TIE RODS SHALL BE PROVIDED WITH TWO N.Y.D.D.WASHERS AND NUTS AT EACH END.
9. ALL BOLTS AND TIE RODS SHALL BE CUT FLUSH AT NUT END WHERE SHOWN AND WHERE NECESSARY TO INSTALL NEW BULKHEAD COMPONENTS.
10. ALL TIE RODS SHALL BE CUT FLUSH AT FRONT OF PILES. NUTS AND WASHERS SHALL BE COUNTERSUNK.
11. ALL HARDWARE AND FASTENERS SHALL BE GALVANIZED STEEL UNLESS OTHERWISE SHOWN AND MEET N.C.D.P.W SPECIFICATIONS.
12. ALL OPENINGS IN NEW SHEETING FOR TIE RODS SHALL BE LIMITED IN SIZE AS FOLLOWS; THRU WALL DIMENSION PLUS ONE INCH.



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TOWN OF HEMPSTEAD, N.Y. FOUNDED 1644
Department of Engineering

BULKHEAD DETAIL

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: MARCH 2018
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Dwg No.:
Sheet No.: 13 of 13

Attachment 3: SHPO Correspondence

Baldwin Park – Shoreline Stabilization Project

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

ANDREW M. CUOMO
Governor

ROSE HARVEY
Commissioner

December 7, 2018

James McAllister
Governor's Office of Storm Recovery
500 Bi-County Boulevard
Farmingdale, NY 11735

Re: HTF/ GOSR/ HUD CDBG-DR/ Storm resiliency:
Baldwin Park Shoreline Stabilization
Hempstead/ Nassau County
18PR07551

Dear Mr. McAllister:

Thank you for requesting the comments of the New York State Historic Preservation Office (SHPO). We have reviewed the submitted materials in accordance with Title 54, Section 306108 of the National Historic Preservation Act of 1966. These comments are those of the SHPO and relate only to Historic/ Cultural resources. They do not include other environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the National Environmental Policy Act and/or the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8).

Based on this review, it is the opinion of SHPO that there will be No Historic Properties Affected by the proposed undertaking.

If I can be of further assistance, contact me at (518) 268-2187 or Larry.moss@parks.ny.gov

Sincerely,

L Moss

Larry K Moss, Historic Preservation Technical Specialist

CC: Cristy Boyd, CSA Group

Governor's Office of
Storm Recovery

ANDREW M. CUOMO
Governor

January 16, 2019

Shannon Holsey, President
Stockbridge-Munsee Community, Band of the Mohicans
N8476 Moh He Con Nuck Road
Bowler, WI 54416

Re: Section 106 Compliance for the Baldwin Park Shoreline Stabilization Project
Town of Hempstead, Nassau County, NY

Dear Ms. Holsey,

Pursuant to the Disaster Relief Appropriations Act, 2013 (Public Law 113-2) and the Housing and Community Development Act (42 U.S.C. §5301 et seq.), the Governor's Office of Storm Recovery (GOSR), is acting under auspices of New York State Homes and Community Renewal's Housing Trust Fund Corporation as a recipient of Community Development Block Grant – Disaster Recovery ("CDBG-DR") funds from the United States Department of Housing and Urban Development ("HUD"). GOSR is the entity responsible for compliance with the HUD environmental review procedures set forth in 24 CFR Part 58. GOSR is acting on behalf of HUD in providing the enclosed project information and inviting this discussion with your Tribe to respond with any concerns or comments.

GOSR processes environmental reviews for projects funded with HUD CDBG-DR on a case-by-case basis. In accordance with Section 101(d)(6)(B) of the National Historic Preservation Act (NHPA) of 1966, as amended (16 U.S.C. 470a), and its implementing regulations, 36 Code of Federal Regulations (CFR) Part 800, this letter serves as notification of the proposed action. This consultation is being sent to the Delaware Nation, Delaware Tribe, Shinnecock Nation and Unkechaug.

Area of Potential Effect:
GOSR proposes to provide funding to implement shoreline improvements within the Town of Hempstead's Baldwin Park located at 3232 Grand Avenue, Baldwin, New York. The Proposed Project site is situated within Section 54, Block H, Lot 391, a 14.6-acre parcel formerly occupied by a Board of Cooperative Education Services (BOCES) Facility (see **Attachment 1, Project Location Maps**).

The purpose of the Proposed Project is to implement storm protection measures along the shoreline of Baldwin Park to minimize further erosion and damage that resulted from Superstorm Sandy and other recent storms. The Proposed Project would also provide public waterfront access at Baldwin Park, as well as access to the Blueway Trail, enabling residents to enjoy open space and recreational activities. The Proposed Project would help protect both water quality and a key community natural and cultural asset from future flood risk and erosion and reduce the need for recovery resources following a major storm event. Further, stabilization of this shoreline and the re-establishment of marsh vegetation is expected to attenuate wave energy and reduce the risk of flood damage to the surrounding neighborhoods.

Proposed Project Description
The Proposed Project would include:

- Removal of 1,600 linear feet of existing and compromised timber bulkhead to be replaced by a living shoreline. The living shoreline would consist of an armored toe stabilization set at the mean highwater line designed with large revetment stones protecting a stone core. The living shoreline will make the shoreline more resilient while minimizing the amount of hard features through use of low and high marsh plantings.

- In-place and in-kind replacement of approximately 800 linear feet of existing timber bulkhead; new bulkhead would be set with a top elevation of 5.25, consistent with the existing timber bulkhead elevation.
- Construction of an approximately 0.3-acre gravel parking lot near the northern section of the site.
- Construction of an eight-foot wide gravel pedestrian path.
- Construction of a permanent waterfront landing for non-motorized equipment (canoes and kayaks) for use by the public. (see **Attachment 2, Site Plans)**

On December 1, 2018, the New York State Cultural Resource Information System (CRIS) was reviewed to determine whether any cultural resources were located near the project area. According to the information contained in CRIS, there are no structures, historic districts, landmarks nor other cultural resources of significance situated on or in the immediate vicinity of the project site. Subsequently, a letter was sent to the New York State Historic Preservation Officer (SHPO) requesting consultation. On December 7, 2018, SHPO indicated that there would be No Historic Properties Affected by the undertaking (see **Attachment 3 for SHPO response letter)**.

GOSR is completing an environmental review for this project pursuant to HUD NEPA regulations. If the Area of Potential Effects encompasses historic properties of religious or cultural significance to your Tribe, please respond within 30 days or sooner. Additionally, please indicate if there are other sources of information or other parties, Nations, Tribes, or members of the public you believe should be included in the consultation process. Please respond by email or in writing to the address listed below.

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, N.Y. 11735

I am available to answer any questions that you may have regarding this action. 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
Senior Environmental Project Manager
Bureau of Environmental Review and Assessment
Governor's Office of Storm Recovery

Enclosures:
Attachment 1: Project Location Maps
Attachment 2: Site Plans
Attachment 3: SHPO Correspondence

Electronic letter sent to:
Bonney Hartley
THPO, New York Office
Stockbridge-Munsee Community, Band of the Mohicans
65 1st Street
Troy, NY 12180
Bonney.hartley@mohican-nsn.gov

Attachment 1: Project Location Maps

Baldwin Park – Shoreline Stabilization Project

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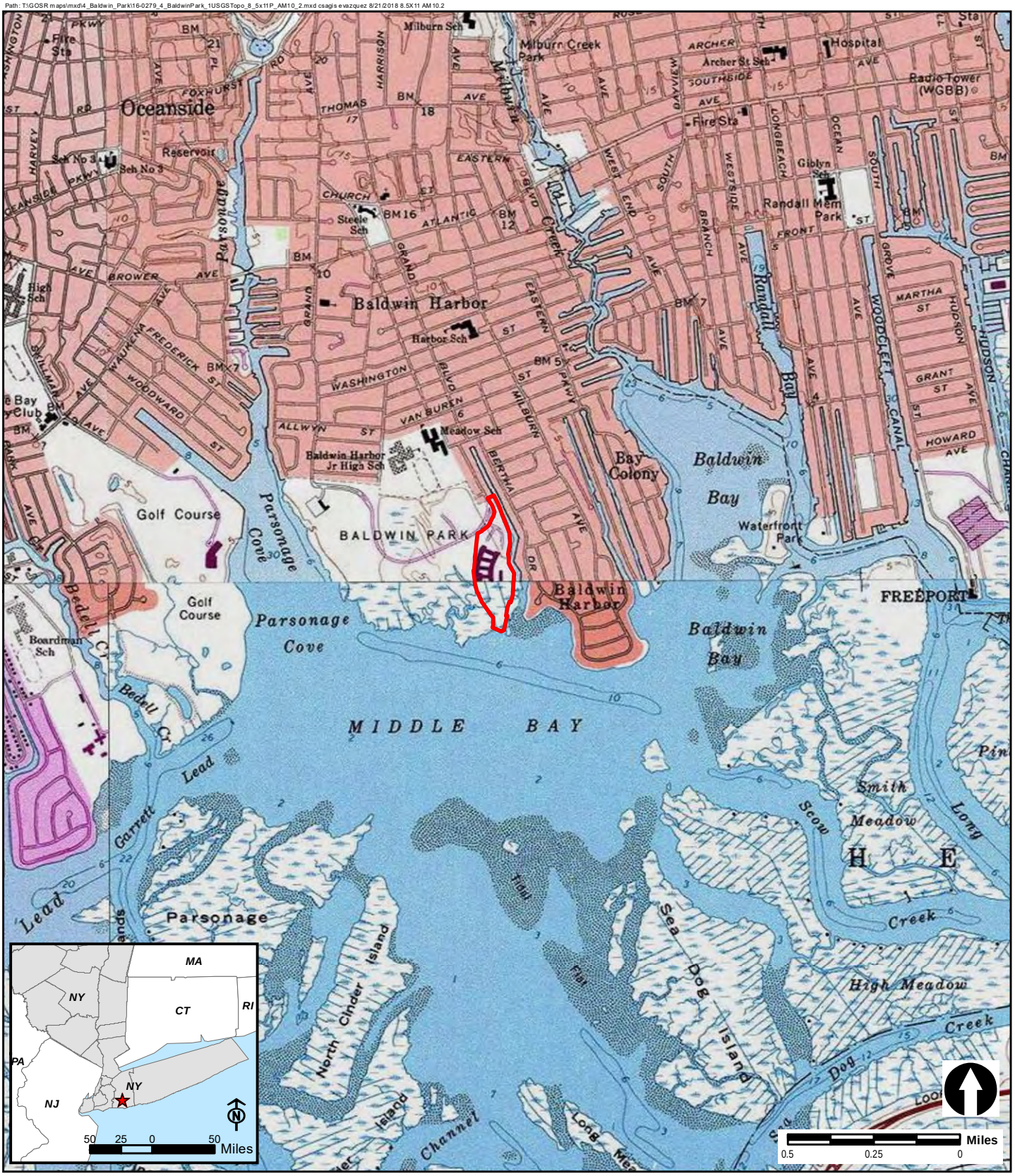

Project Site

Figure 1

USGS Regional Location

Baldwin Park Shoreline Stabilization Project

Hempstead, Nassau County, NY

Source: USGS Topgraphic Map, Far Rockaway Quadrangle
Copyright:© 2013 National Geographic Society, i-cubed
(http://server.arcgisonline.com/ArcGIS/rest/services/
USA_Topo_Maps/MapServer)

CSAGROUP
EST • 1956

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Project Site
Living Shoreline
Bulkhead

Figure 2

Project Area

Baldwin Park Shoreline Stabilization Project

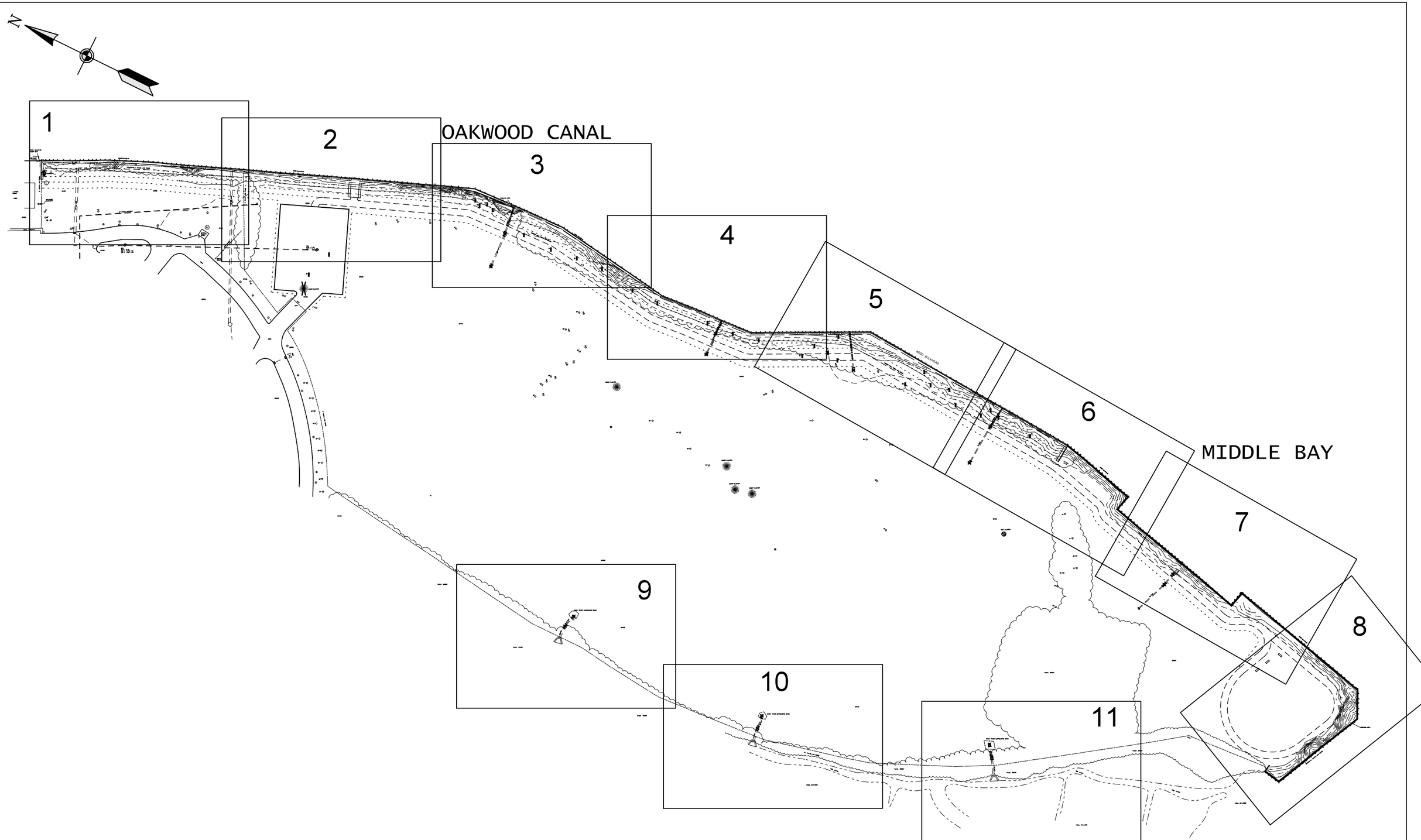
Hempstead, Nassau County, NY

Source: New York State Department of Transportation, 2013;
ESRI World Imagery

CSAGROUP EST. 1956

Attachment 2: Site Plans

Baldwin Park – Shoreline Stabilization Project



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KEY MAP

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:

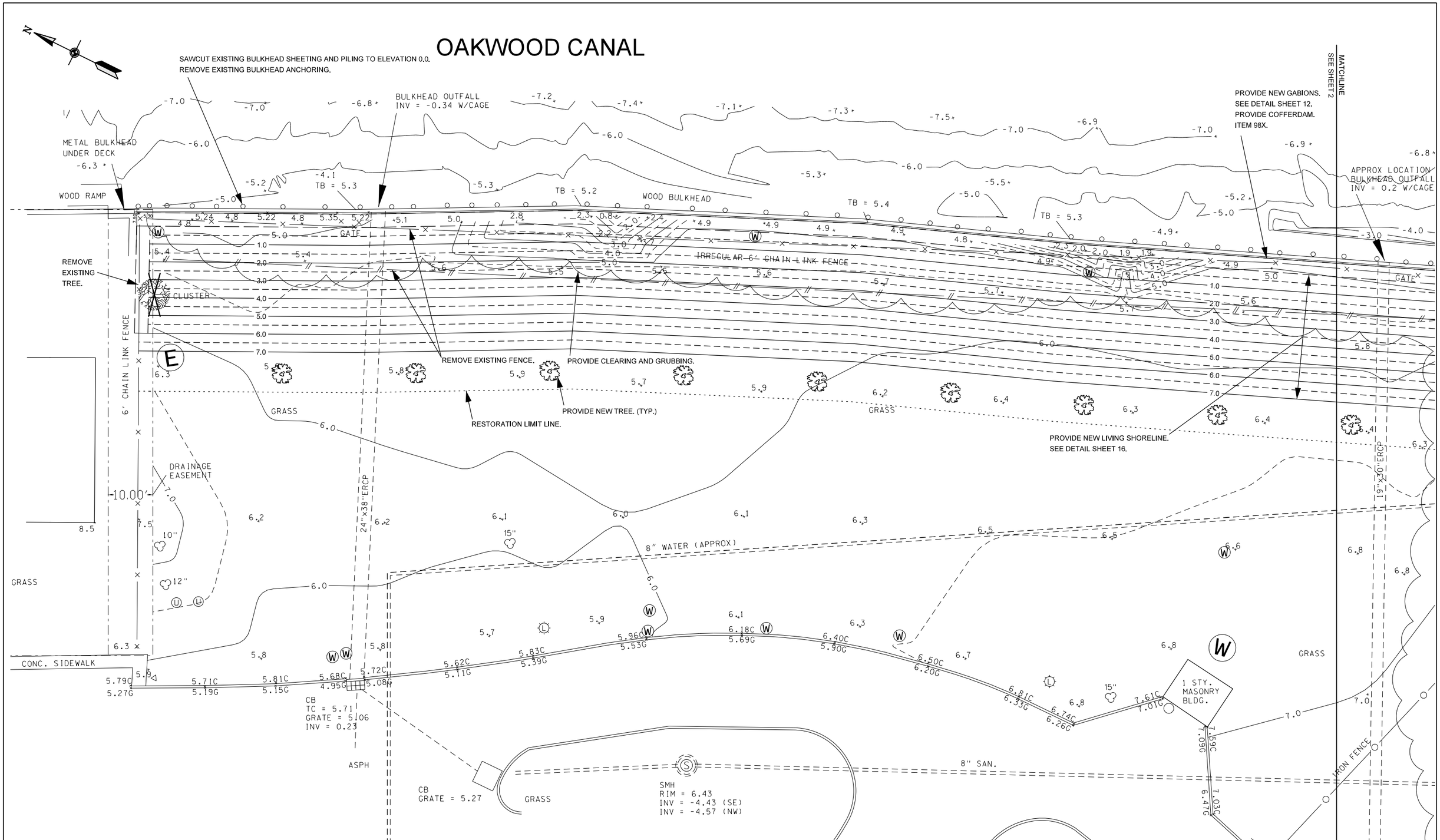
Date: MARCH 2018

File No.:

Dwg No.:

Sheet No.: of

OAKWOOD CANAL



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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

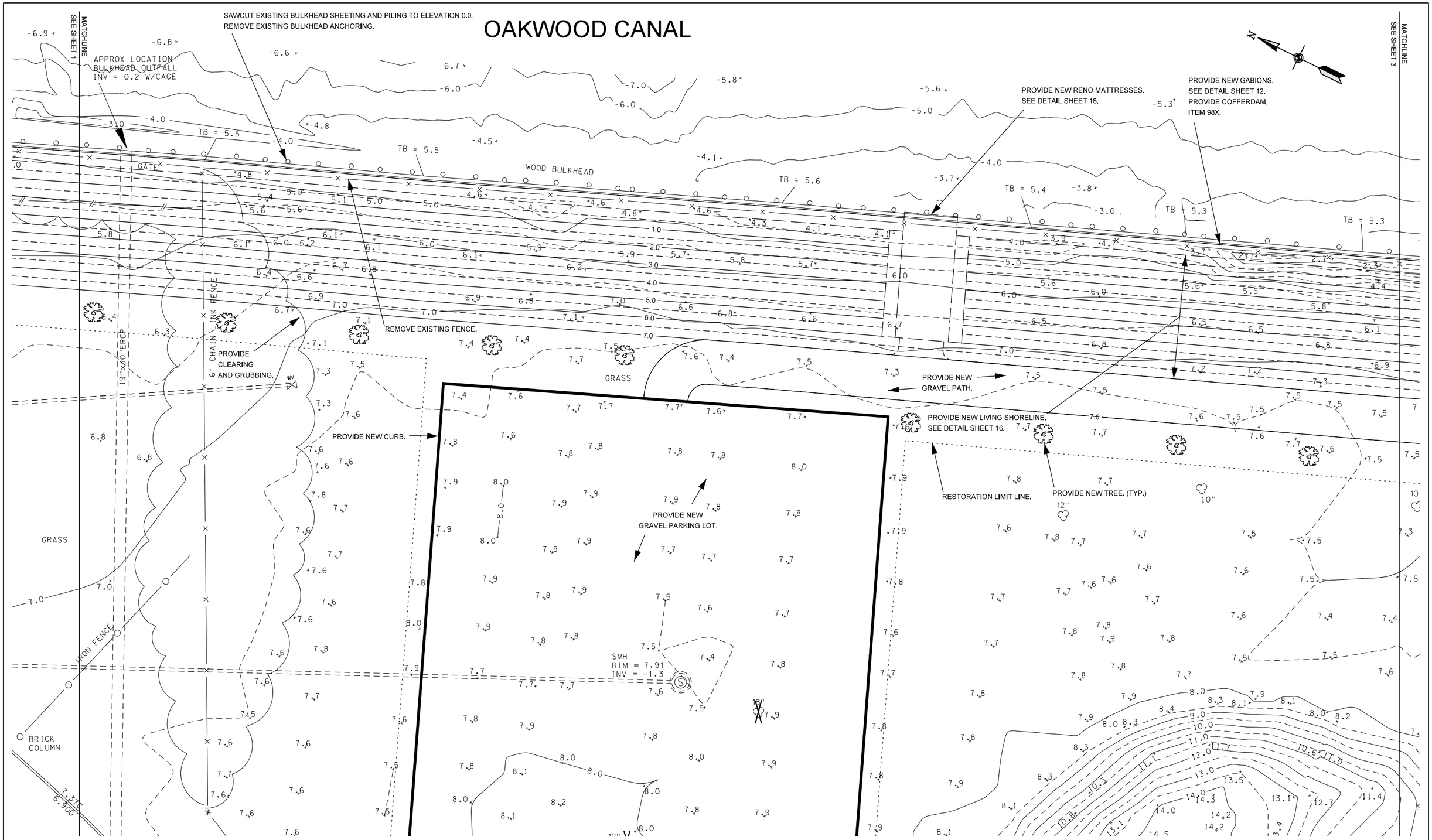
Date: MARCH 2018

File No.:

Dwg No.:

Sheet No.: 1 of 13

OAKWOOD CANAL



NO.	DATE	REVISIONS

In Charge:	D.L.T.
Compilation:	J.M.T.
Design:	J.M.T.
Drawn:	J.M.T.
Checked:	J.M.T.
Reviewed:	D.L.T.

Proposed Contours

Existing Contours

TOWN OF HEMPSTEAD N.Y. FOUNDED 1644

Department of Engineering

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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	MARCH 2018
File No.:	
Dwg No.:	
Sheet No.:	2 of 13

OAKWOOD CANAL

MATCHLINE SEE SHEET 2

MATCHLINE SEE SHEET 4

TB = 5.3

TB = 5.4

TB = 5.2

TB = 5.5

TB = 5.2

TB = 5.

REMOVE EXISTING FENCE.

PROVIDE NEW TREE. (TYP.)

PROVIDE NEW GRAVEL PATH.

BULKHEAD EXISTING DRAIN PIPE.

RESTORATION LIMIT LINE.

REMOVE EXISTING CATCH BASIN.

REMOVE EXISTING DRAIN PIPE.

PROVIDE CLEARING AND GRUBBING.

EROSION AREA

CONCRETE HEADWALL BULKHEAD OUTFALL INV = 1.4

SAWCUT EXISTING BULKHEAD SHEETING AND PILING TO ELEVATION 0.0. REMOVE EXISTING BULKHEAD ANCHORING.

PROVIDE NEW GABIONS. SEE DETAIL SHEET 12. PROVIDE COFFERDAM. ITEM 98X.

WOODED AREA TREES AND BRUSH

WOOD BULKHEAD

REMOVE EXISTING TREE.

PROVIDE NEW LIVING SHORELINE. SEE DETAIL SHEET 16.

GB
TCP = 7.00
GRATE = 6.22
INV = 1.36

CB
GRATE = 6.12
INV = 2.00

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TOWN OF HEMPSTEAD N.Y. FOUNDED 1644

Department of Engineering

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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

Date: MARCH 2018

File No.:

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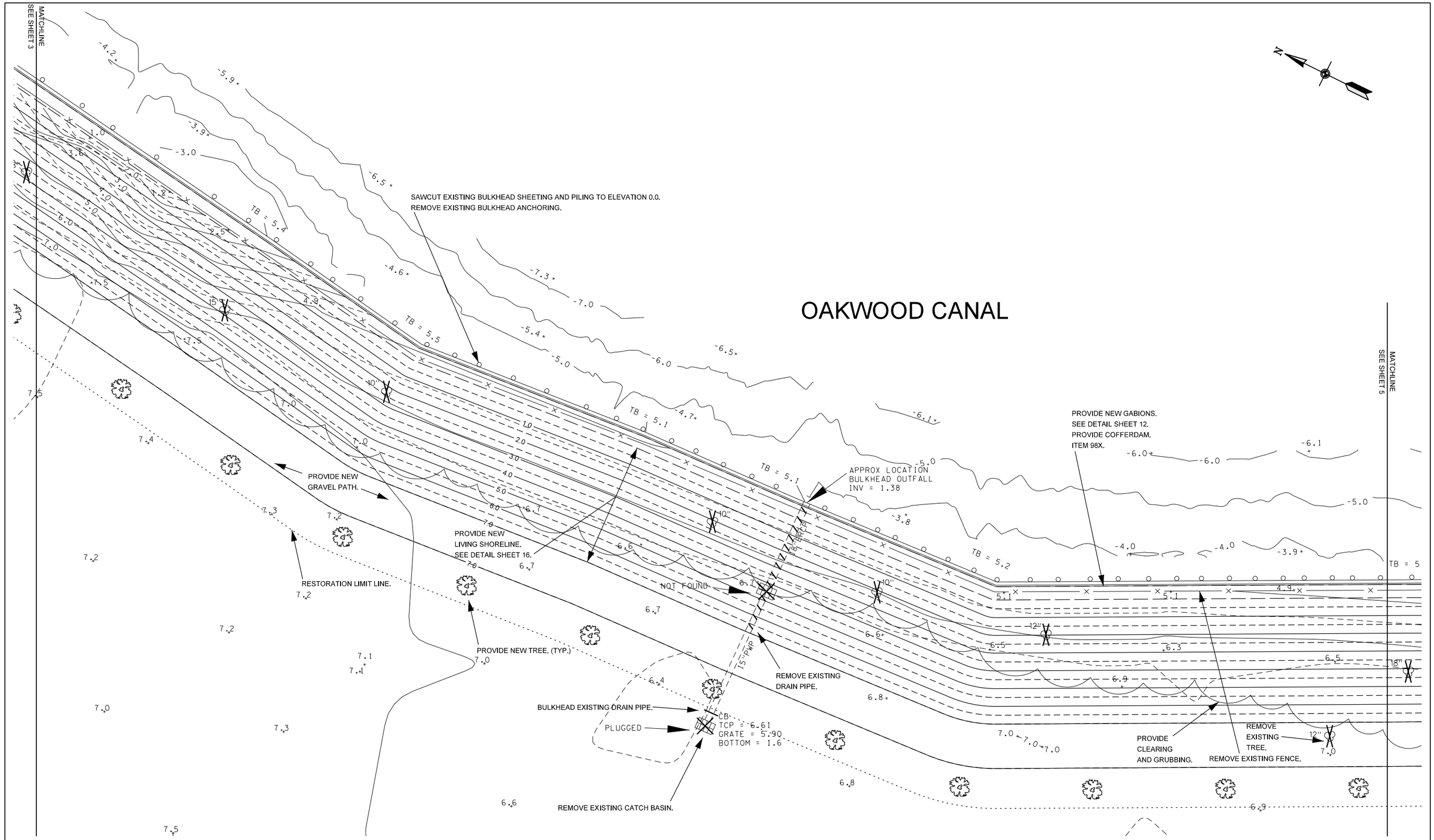
Sheet No.: 3 of 13



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Department of Engineering

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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

Date: MARCH 2018

File No.:

Dwg No.:

Sheet No.: 4 of 13

OAKWOOD CANAL

SAWCUT EXISTING BULKHEAD SHEETING AND PILING TO ELEVATION 0.0.
REMOVE EXISTING BULKHEAD ANCHORING.

PROVIDE NEW GABIONS.
SEE DETAIL SHEET 12.
PROVIDE COFFERDAM.
ITEM 98X.

MATCHLINE
SEE SHEET 5

MATCHLINE
SEE SHEET 4

WOOD BULKHEAD

APPROX LOCATION
BULKHEAD OUTFALL
INV = 2.50

REMOVE EXISTING FENCE.

WOODED AREA TREES AND BRUSH

PROVIDE NEW
GRAVEL PATH.

REMOVE EXISTING
DRAIN PIPE.

REMOVE
EXISTING
TREE.

CB
GRATE = 5.85'

REMOVE EXISTING CATCH BASIN.

BULKHEAD EXISTING DRAIN PIPE.

PROVIDE
CLEARING
AND GRUBBING.

RESTORATION LIMIT LINE.

PROVIDE NEW
LIVING SHORELINE.
SEE DETAIL SHEET 16.

PROVIDE NEW TREE. (TYP.)

NO.	DATE	REVISIONS

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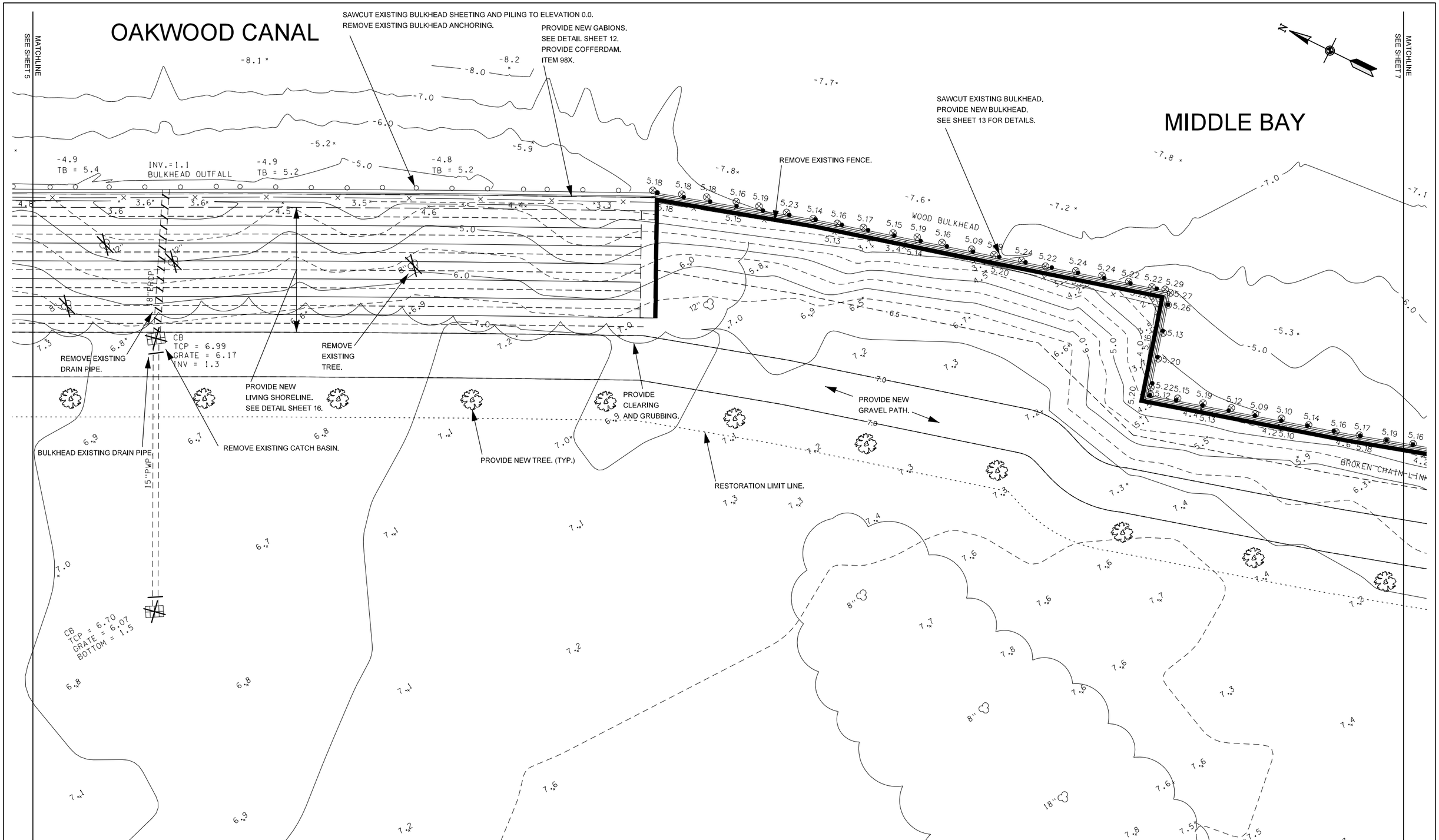
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	MARCH 2018
File No.:	
Dwg No.:	
Sheet No.:	5 of 13



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SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

Date: MARCH 2018

File No.:

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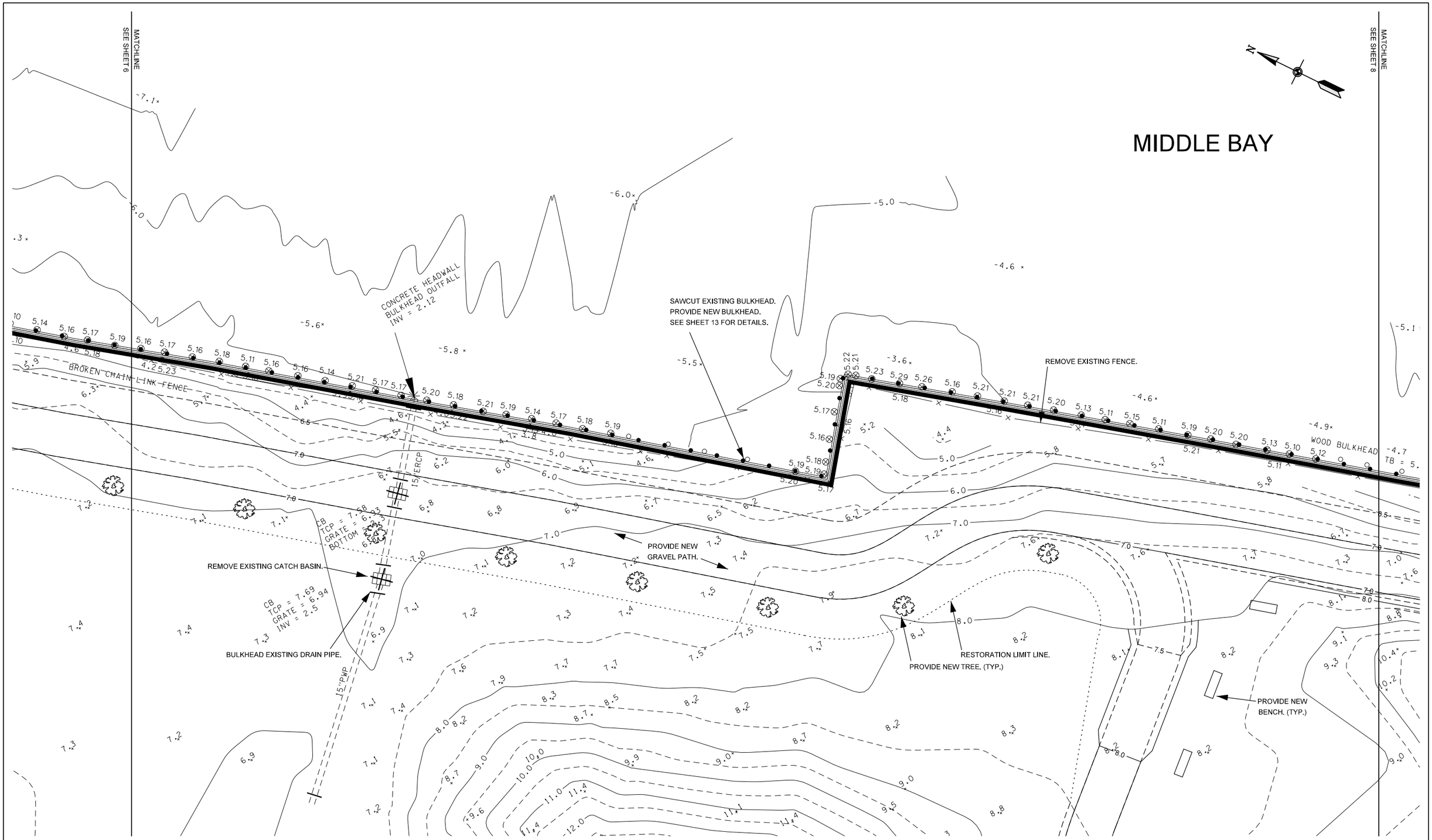
Sheet No.: 6 of 13



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Existing Contours

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Department of Engineering

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SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

Date: MARCH 2018

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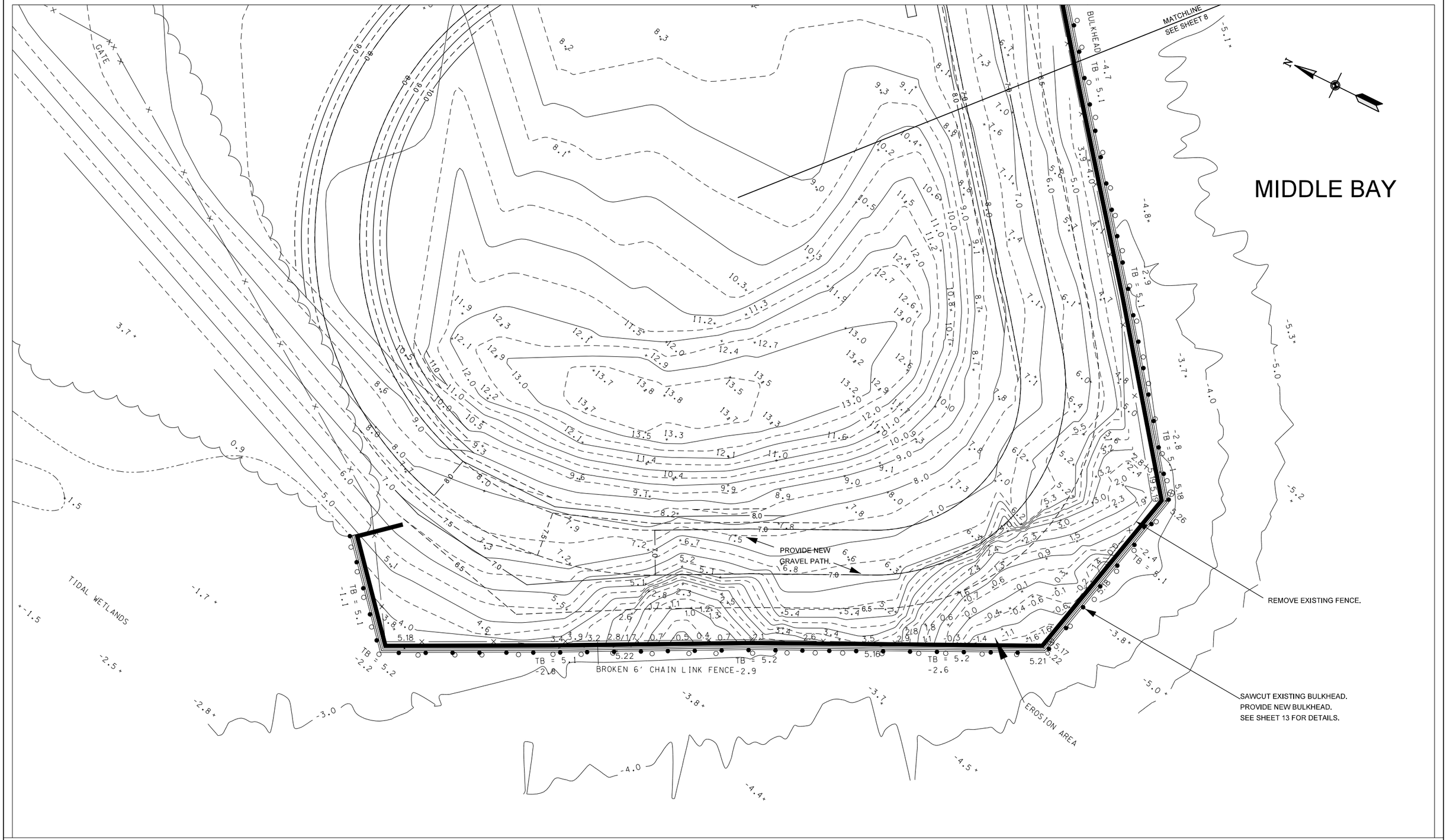
Sheet No.: 7 of 13



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TOWN OF HEMPSTEAD N.Y. FOUNDED 1644

Department of Engineering

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BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	MARCH 2018
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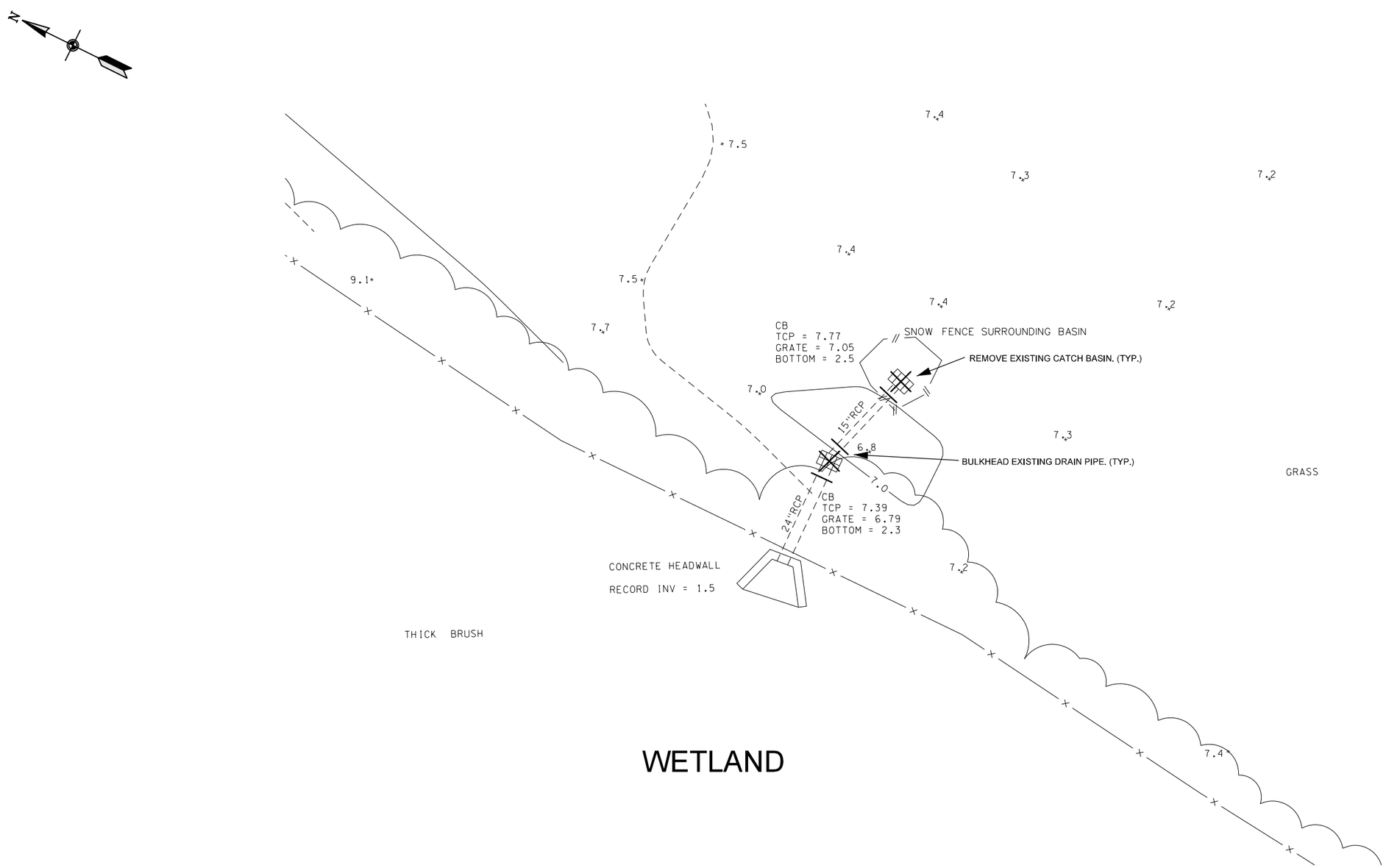
Sheet No.:	8 of 13



NOTE: SEE KEY MAP FOR LOCATION DETAILS.

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Department of Engineering

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SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

Date: MARCH 2018

File No.:

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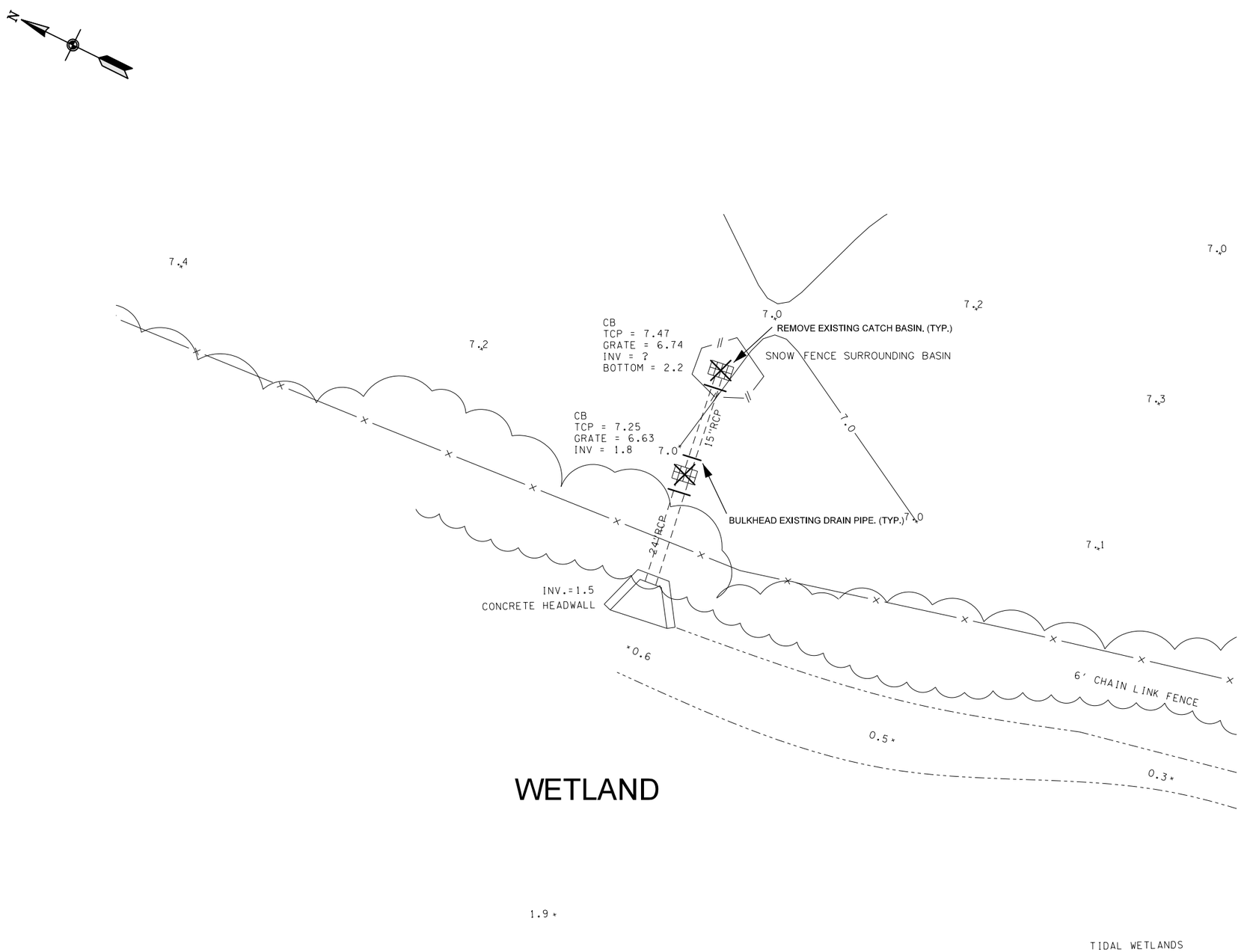
Sheet No.: 9 of 13



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Proposed Contours

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TOWN OF HEMPSTEAD, N.Y. FOUNDED 1644

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SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

Date: MARCH 2018

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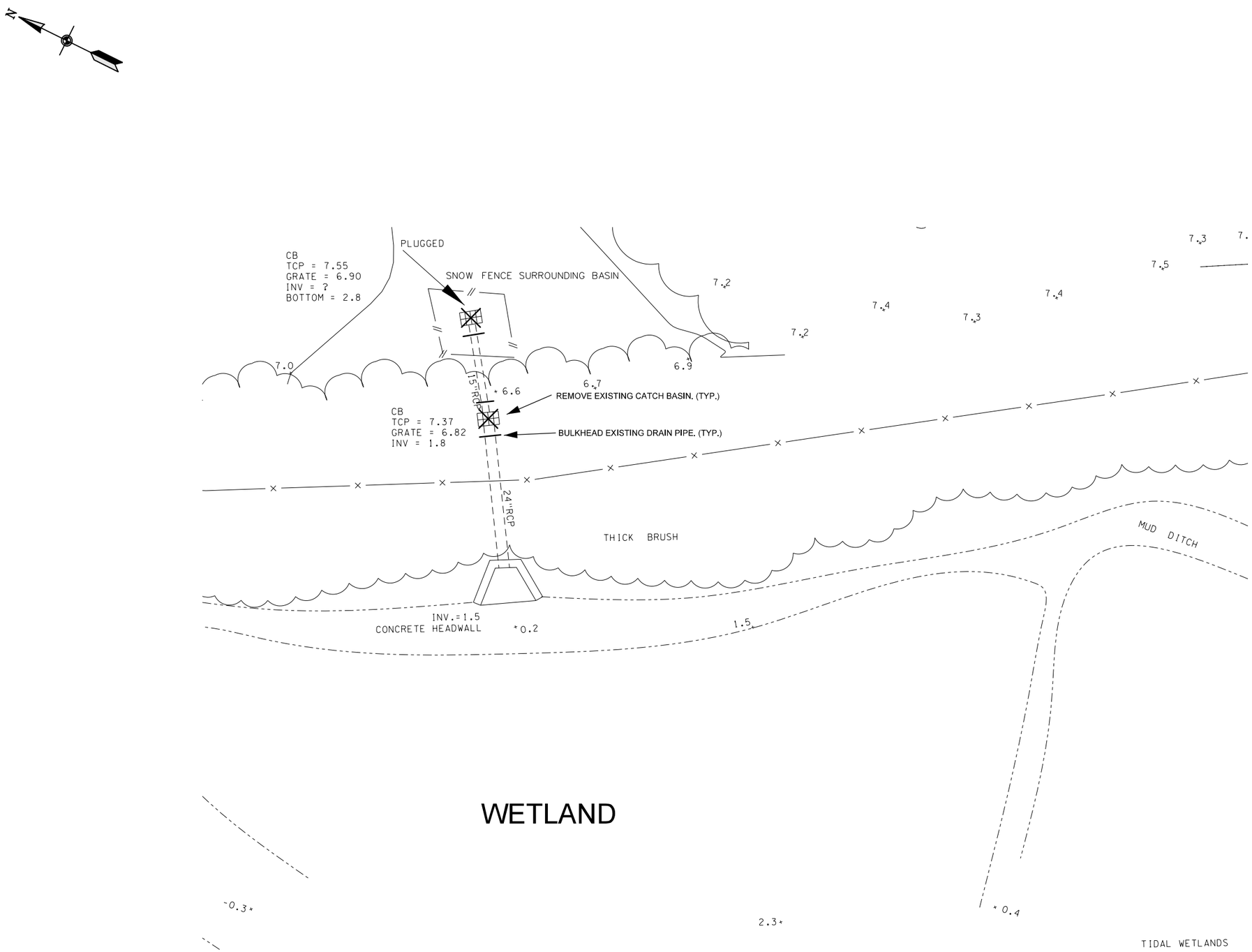
Sheet No.: 10 of 13



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BALDWIN, N.Y.

Scale: 1" = 20'

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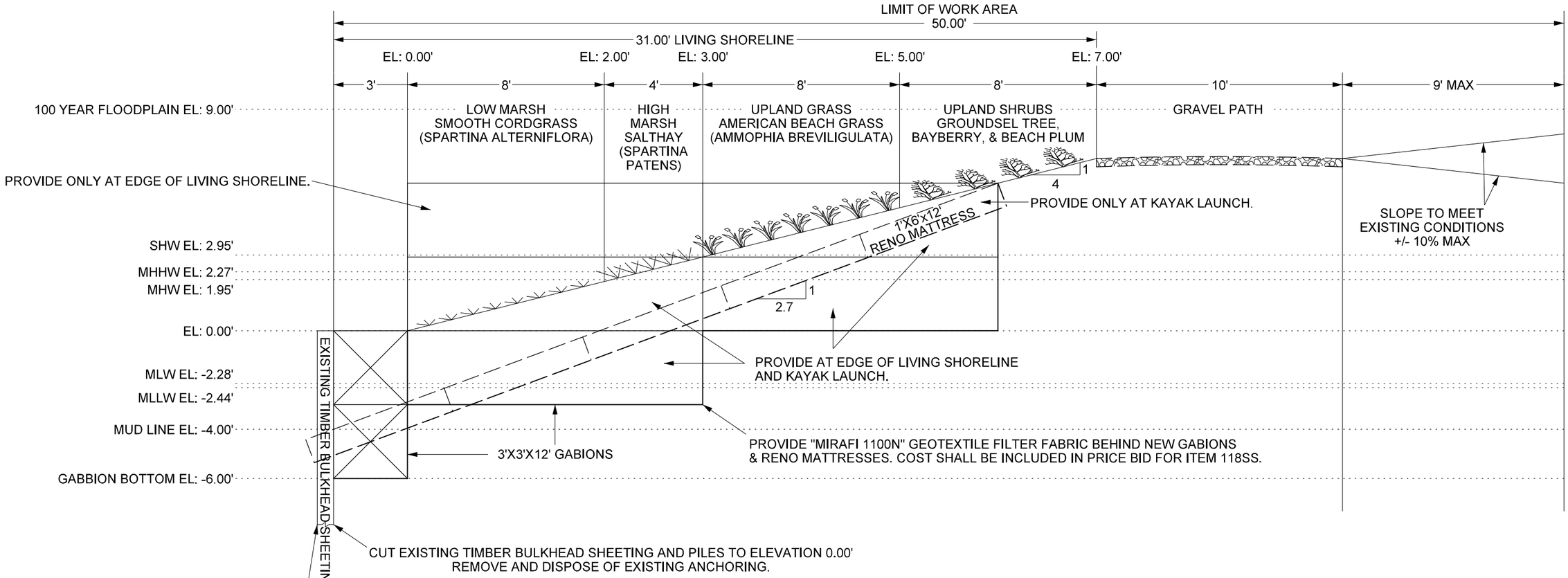
Sheet No.: 11 of 13



NOTE:
CONTRACTOR TO FURNISH, MAINTAIN, AND REMOVE COFFERDAMS AND DEWATERING EQUIPMENT.
THE SELECTION OF MATERIALS, THEIR ARRANGEMENT AND DETAILS SHALL BE THE CONTRACTORS OPTION AND RESPONSIBILITY.
ITEM 98X.

PLANTING SPECIFICATIONS

LOW MARSH:
Smooth Cordgrass (Spartina Alteriflora)
All plants to be Nursery Grown in 2" Peat pots, planted on 18" centers. Stagger rows.

HIGH MARSH:
Saltmeadow Cordgrass (Spartina Patens)
All plants to be Nursery Grown in 2" Peat pots, planted on 18" centers. Stagger rows.

UPLAND GRASS:
American Beachgrass (Ammonphila Breviligulata)
Install on 18" centers. 3 culms/planting unit. Stagger rows.
Fertilize in early spring. 30lbs inorganic nitrogen/acre.

UPLAND SHRUBS:
Groudsel Tree (Baccharis Hamlimifolia)
Bayberry (Myrica Pennsylvanica)
Beach Plum (Prunus Maritima)
All plants to be Nursery Grown, 2 Gallon Minimum. Install on 6' centers.
Fertilize with 1 tablespoon of Osmocote 18-6-12 per planting hole.

NOTE:
Smooth Cordgrass plantings to be installed prior to Saltmeadow Cordgrass plantings to prevent disturbence.
Saltmeadow Cordgrass plantings to be installed prior to upland plantings to prevent disturbence.
All plant installation and seeding to occur between March 15 and May 15 or September 15 to October 15.

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TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
Department of Engineering

LIVING SHORELINE DETAIL

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: MARCH 2018
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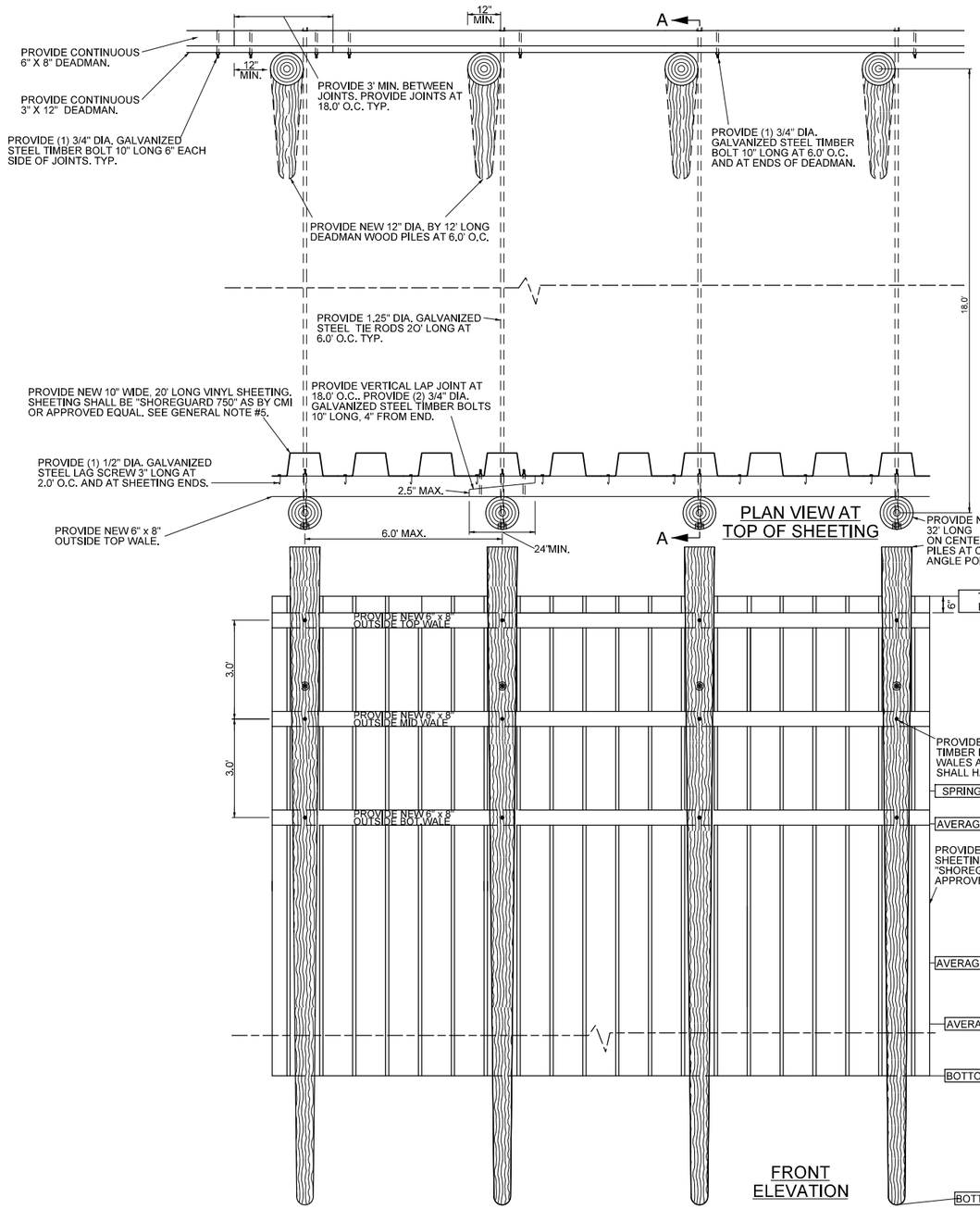
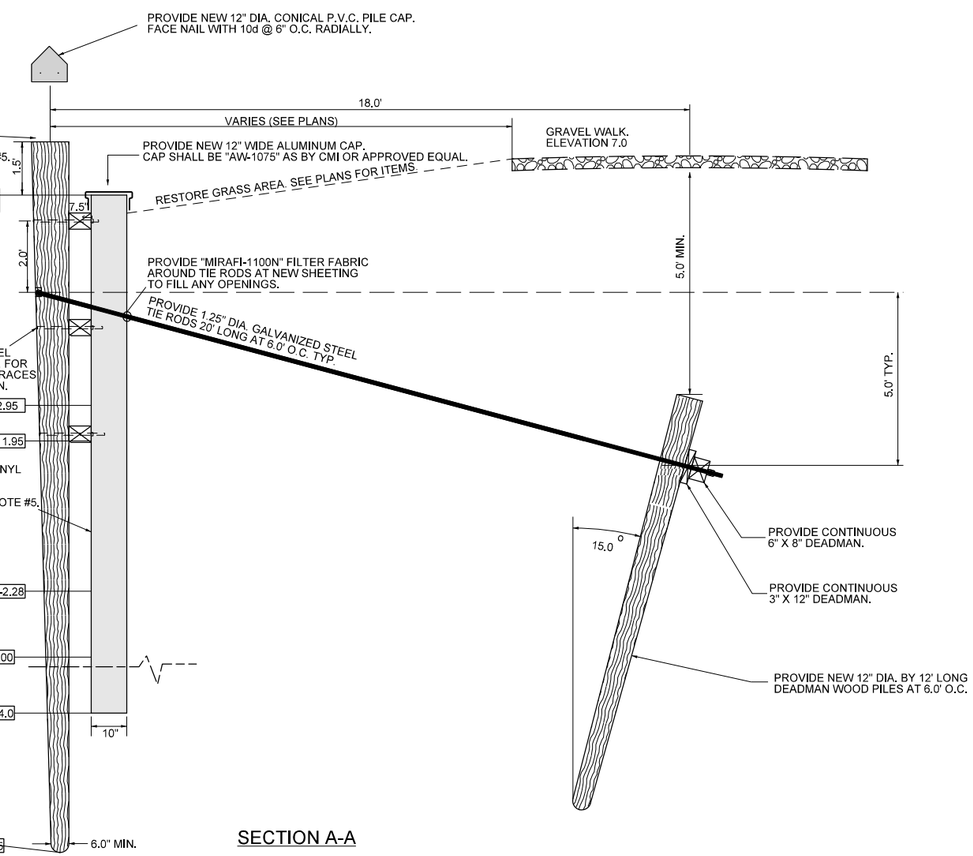


ITEM 204X GENERAL NOTES:

1. ALL LUMBER AND TIMBER SIZES INDICATED ARE NOMINAL. ALL DIMENSIONS INDICATED ARE FINISHED.
2. ALL LUMBER AND TIMBER SHALL BE CCA AND PRESSURE TREATED TO OBTAIN A MINIMUM RETENTION OF 2.5 LBS/CF.
3. NEW RETURNS AND CONNECTIONS TO EXISTING BULKHEADS AT LIMITS OF NEW BULKHEAD SHALL BE DETERMINED IN FIELD A.O.B.E.
4. EXISTING BULKHEADS AND EXISTING BULKHEAD ANCHORING COMPONENTS SHALL BE COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 204X.
5. SEE PLANS FOR NEW TOP OF SHEETING ELEVATIONS, NEW SHEETING LENGTHS AND NEW PILE LENGTHS.
6. ALL TIMBER AND CARRIAGE BOLTS SHALL BE PROVIDED WITH ONE N.Y.D.D.WASHER AND NUT AT END.
7. ALL LAG SCREWS SHALL BE PROVIDED WITH ONE N.Y.D.D.WASHER AT HEAD END.
8. ALL TIE RODS SHALL BE PROVIDED WITH TWO N.Y.D.D.WASHERS AND NUTS AT EACH END.
9. ALL BOLTS AND TIE RODS SHALL BE CUT FLUSH AT NUT END WHERE SHOWN AND WHERE NECESSARY TO INSTALL NEW BULKHEAD COMPONENTS.
10. ALL TIE RODS SHALL BE CUT FLUSH AT FRONT OF PILES. NUTS AND WASHERS SHALL BE COUNTERSUNK.
11. ALL HARDWARE AND FASTENERS SHALL BE GALVANIZED STEEL UNLESS OTHERWISE SHOWN AND MEET N.C.D.P.W SPECIFICATIONS.
12. ALL OPENINGS IN NEW SHEETING FOR TIE RODS SHALL BE LIMITED IN SIZE AS FOLLOWS; THRU WALL DIMENSION PLUS ONE INCH.



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TOWN OF HEMPSTEAD, N.Y. FOUNDED 1644
Department of Engineering

BULKHEAD DETAIL

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: MARCH 2018
File No.:
Dwg No.:
Sheet No.: 13 of 13

Attachment 3: SHPO Correspondence

Baldwin Park – Shoreline Stabilization Project

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

ANDREW M. CUOMO
Governor

ROSE HARVEY
Commissioner

December 7, 2018

James McAllister
Governor's Office of Storm Recovery
500 Bi-County Boulevard
Farmingdale, NY 11735

Re: HTF/ GOSR/ HUD CDBG-DR/ Storm resiliency:
Baldwin Park Shoreline Stabilization
Hempstead/ Nassau County
18PR07551

Dear Mr. McAllister:

Thank you for requesting the comments of the New York State Historic Preservation Office (SHPO). We have reviewed the submitted materials in accordance with Title 54, Section 306108 of the National Historic Preservation Act of 1966. These comments are those of the SHPO and relate only to Historic/ Cultural resources. They do not include other environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the National Environmental Policy Act and/or the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8).

Based on this review, it is the opinion of SHPO that there will be No Historic Properties Affected by the proposed undertaking.

If I can be of further assistance, contact me at (518) 268-2187 or Larry.moss@parks.ny.gov

Sincerely,

L Moss

Larry K Moss, Historic Preservation Technical Specialist

CC: Cristy Boyd, CSA Group

Governor's Office of
Storm Recovery

ANDREW M. CUOMO
Governor

January 16, 2019

Harry B. Wallace, Esq., Chief
Unkechaug Nation
207 Poospansk Lane
Mastic, NY 11950

Re: Section 106 Compliance for the Baldwin Park Shoreline Stabilization Project
Town of Hempstead, Nassau County, NY

Dear Chief Wallace,

Pursuant to the Disaster Relief Appropriations Act, 2013 (Public Law 113-2) and the Housing and Community Development Act (42 U.S.C. §5301 et seq.), the Governor's Office of Storm Recovery (GOSR), is acting under auspices of New York State Homes and Community Renewal's Housing Trust Fund Corporation as a recipient of Community Development Block Grant – Disaster Recovery ("CDBG-DR") funds from the United States Department of Housing and Urban Development ("HUD"). GOSR is the entity responsible for compliance with the HUD environmental review procedures set forth in 24 CFR Part 58. GOSR is acting on behalf of HUD in providing the enclosed project information and inviting this discussion with your Tribe to respond with any concerns or comments.

GOSR processes environmental reviews for projects funded with HUD CDBG-DR on a case-by-case basis. In accordance with Section 101(d)(6)(B) of the National Historic Preservation Act (NHPA) of 1966, as amended (16 U.S.C. 470a), and its implementing regulations, 36 Code of Federal Regulations (CFR) Part 800, this letter serves as notification of the proposed action. This consultation is being sent to the Delaware Nation, Delaware Tribe, Shinnecock Nation and Stockbridge-Munsee Community, Band of the Mohicans.

Area of Potential Effect:
GOSR proposes to provide funding to implement shoreline improvements within the Town of Hempstead's Baldwin Park located at 3232 Grand Avenue, Baldwin, New York. The Proposed Project site is situated within Section 54, Block H, Lot 391, a 14.6-acre parcel formerly occupied by a Board of Cooperative Education Services (BOCES) Facility (see **Attachment 1, Project Location Maps**).

The purpose of the Proposed Project is to implement storm protection measures along the shoreline of Baldwin Park to minimize further erosion and damage that resulted from Superstorm Sandy and other recent storms. The Proposed Project would also provide public waterfront access at Baldwin Park, as well as access to the Blueway Trail, enabling residents to enjoy open space and recreational activities. The Proposed Project would help protect both water quality and a key community natural and cultural asset from future flood risk and erosion and reduce the need for recovery resources following a major storm event. Further, stabilization of this shoreline and the re-establishment of marsh vegetation is expected to attenuate wave energy and reduce the risk of flood damage to the surrounding neighborhoods.

Proposed Project Description
The Proposed Project would include:

- Removal of 1,600 linear feet of existing and compromised timber bulkhead to be replaced by a living shoreline. The living shoreline would consist of an armored toe stabilization set at the mean highwater line designed with large revetment stones protecting a stone core. The living shoreline will make the shoreline more resilient while minimizing the amount of hard features through use of low and high marsh plantings.

- In-place and in-kind replacement of approximately 800 linear feet of existing timber bulkhead; new bulkhead would be set with a top elevation of 5.25, consistent with the existing timber bulkhead elevation.
- Construction of an approximately 0.3-acre gravel parking lot near the northern section of the site.
- Construction of an eight-foot wide gravel pedestrian path.
- Construction of a permanent waterfront landing for non-motorized equipment (canoes and kayaks) for use by the public. (see **Attachment 2, Site Plans)**

On December 1, 2018, the New York State Cultural Resource Information System (CRIS) was reviewed to determine whether any cultural resources were located near the project area. According to the information contained in CRIS, there are no structures, historic districts, landmarks nor other cultural resources of significance situated on or in the immediate vicinity of the project site. Subsequently, a letter was sent to the New York State Historic Preservation Officer (SHPO) requesting consultation. On December 7, 2018, SHPO indicated that there would be No Historic Properties Affected by the undertaking (see **Attachment 3 for SHPO response letter)**.

GOSR is completing an environmental review for this project pursuant to HUD NEPA regulations. If the Area of Potential Effects encompasses historic properties of religious or cultural significance to your Tribe, please respond within 30 days or sooner. Additionally, please indicate if there are other sources of information or other parties, Nations, Tribes, or members of the public you believe should be included in the consultation process. Please respond by email or in writing to the address listed below.

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, N.Y. 11735

I am available to answer any questions that you may have regarding this action. 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,

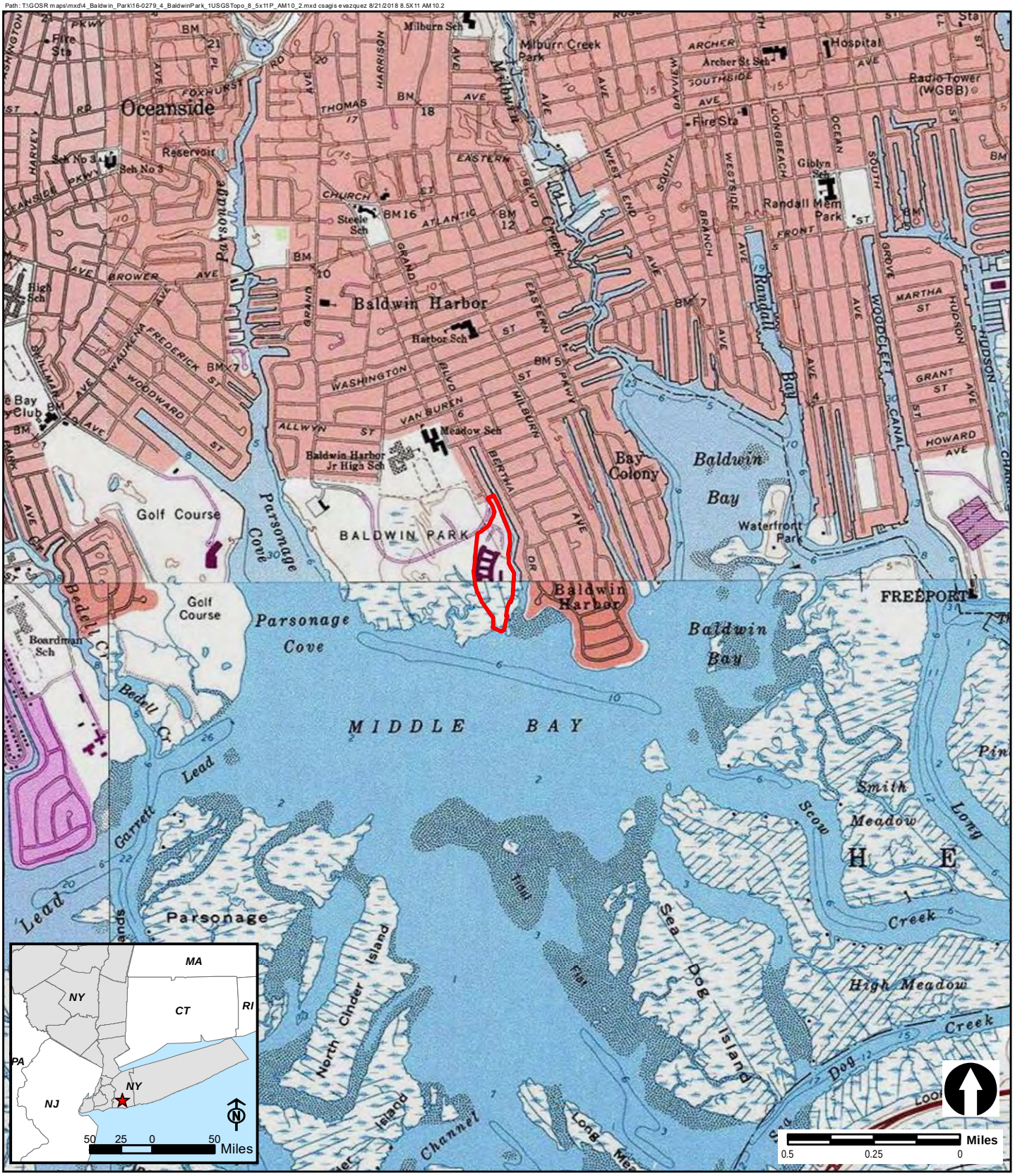
James P. McAllister
Senior Environmental Project Manager
Bureau of Environmental Review and Assessment
Governor's Office of Storm Recovery

Enclosures:
Attachment 1: Project Location Maps
Attachment 2: Site Plans
Attachment 3: SHPO Correspondence

Attachment 1: Project Location Maps

Baldwin Park – Shoreline Stabilization Project

Path: T:\GOSR maps\mxd\4_Baldwin_Park\16-0279_4_BaldwinPark_1USGSTopo_8_5x11P_AM10_2.mxd csagis evazquez 8/21/2018 8.5X11 AM 10.2



Project Site

Figure 1

USGS Regional Location

Baldwin Park Shoreline Stabilization Project

Hempstead, Nassau County, NY

Source: USGS Topgraphic Map, Far Rockaway Quadrangle
Copyright:© 2013 National Geographic Society, i-cubed
(http://server.arcgisonline.com/ArcGIS/rest/services/
USA_Topo_Maps/MapServer)

CSAGROUP
EST • 1956

Path: T:\GOSR maps\mxd\4_Baldwin_Park\16-0279_4_BaldwinPark_2SiteLocation_8_5x11P_AM10_2.mxd csagis evazquez 8/21/2018 8.5X11 AM10.2

Project Site
Living Shoreline
Bulkhead

Figure 2

Project Area

Baldwin Park Shoreline Stabilization Project

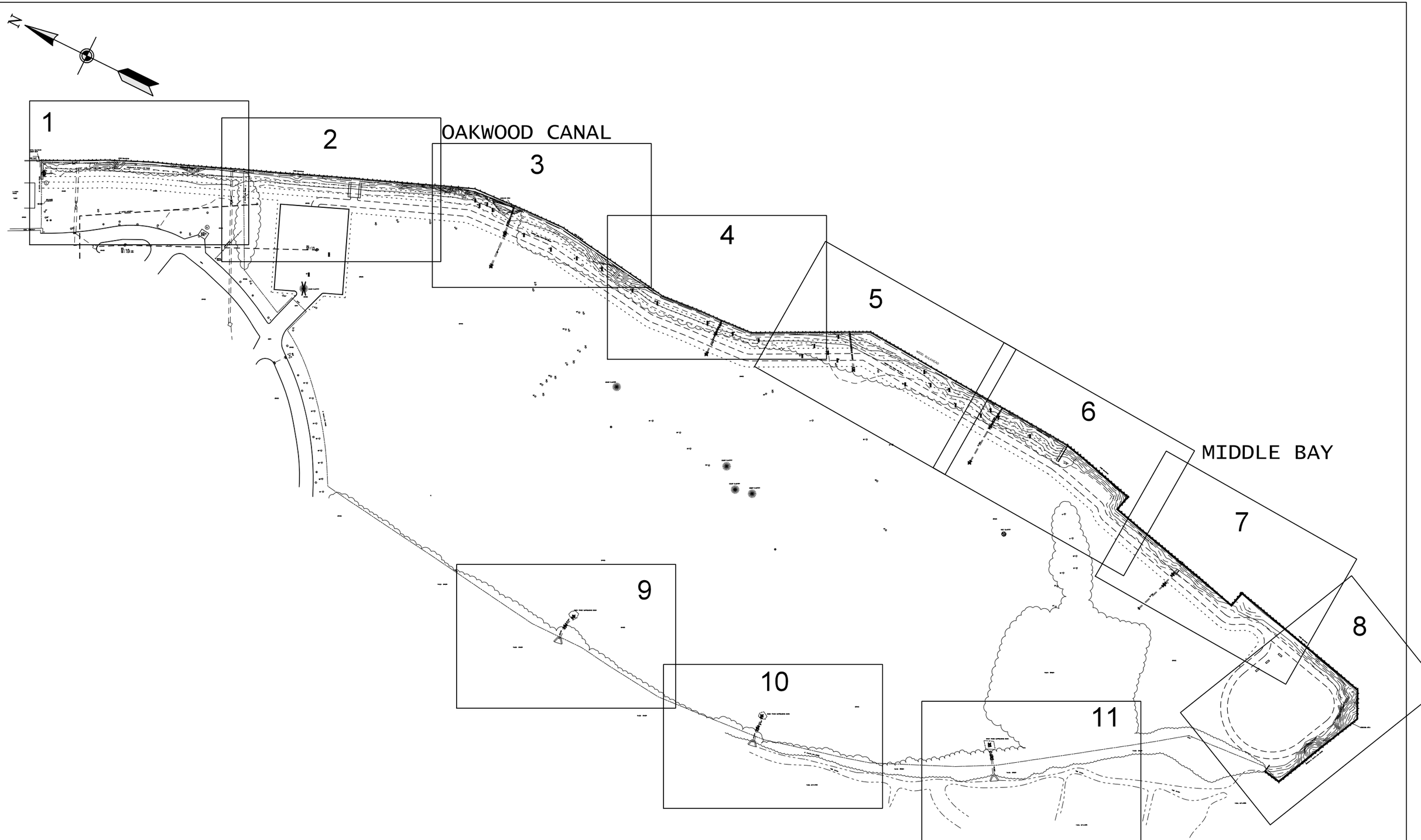
Hempstead, Nassau County, NY

Source: New York State Department of Transportation, 2013;
ESRI World Imagery

CSAGROUP EST. 1956

Attachment 2: Site Plans

Baldwin Park – Shoreline Stabilization Project



NO.	DATE	REVISIONS

In Charge:	D.L.T.
Compilation:	J.M.T.
Design:	J.M.T.
Drawn:	J.M.T.
Checked:	J.M.T.
Reviewed:	D.L.T.

TOWN OF HEMPSTEAD N.Y. FOUNDED 1644

Department of Engineering

PLAN NOTES:

1. EXISTING CONDITIONS SHOWN AS OF FEBRUARY 2018.
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KEY MAP

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:

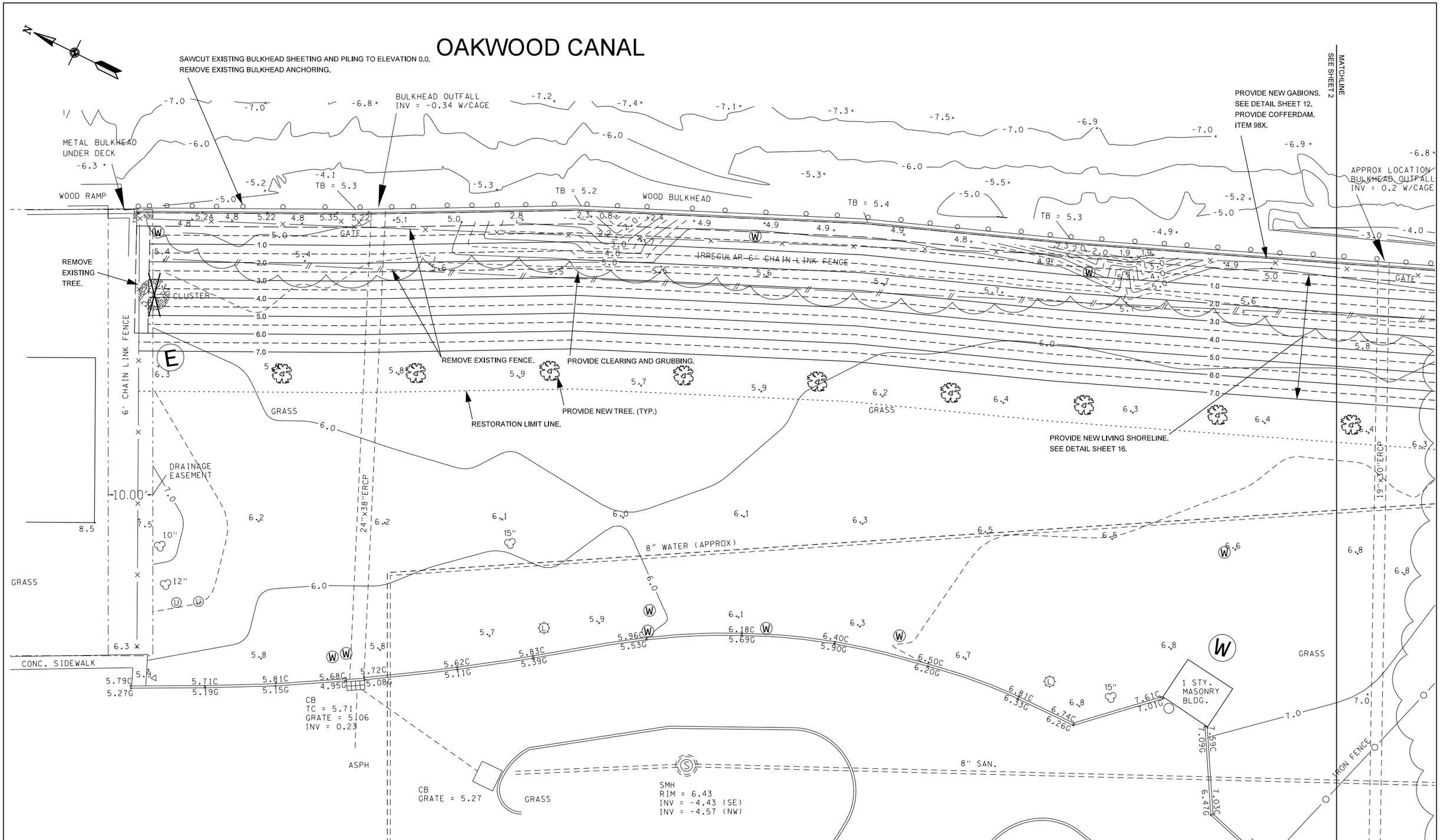
Date: MARCH 2018

File No.:

Dwg No.:

Sheet No.: of

OAKWOOD CANAL



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Proposed Contours

Existing Contours

TOWN OF HEMPSTEAD N.Y. FOUNDED 1644

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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

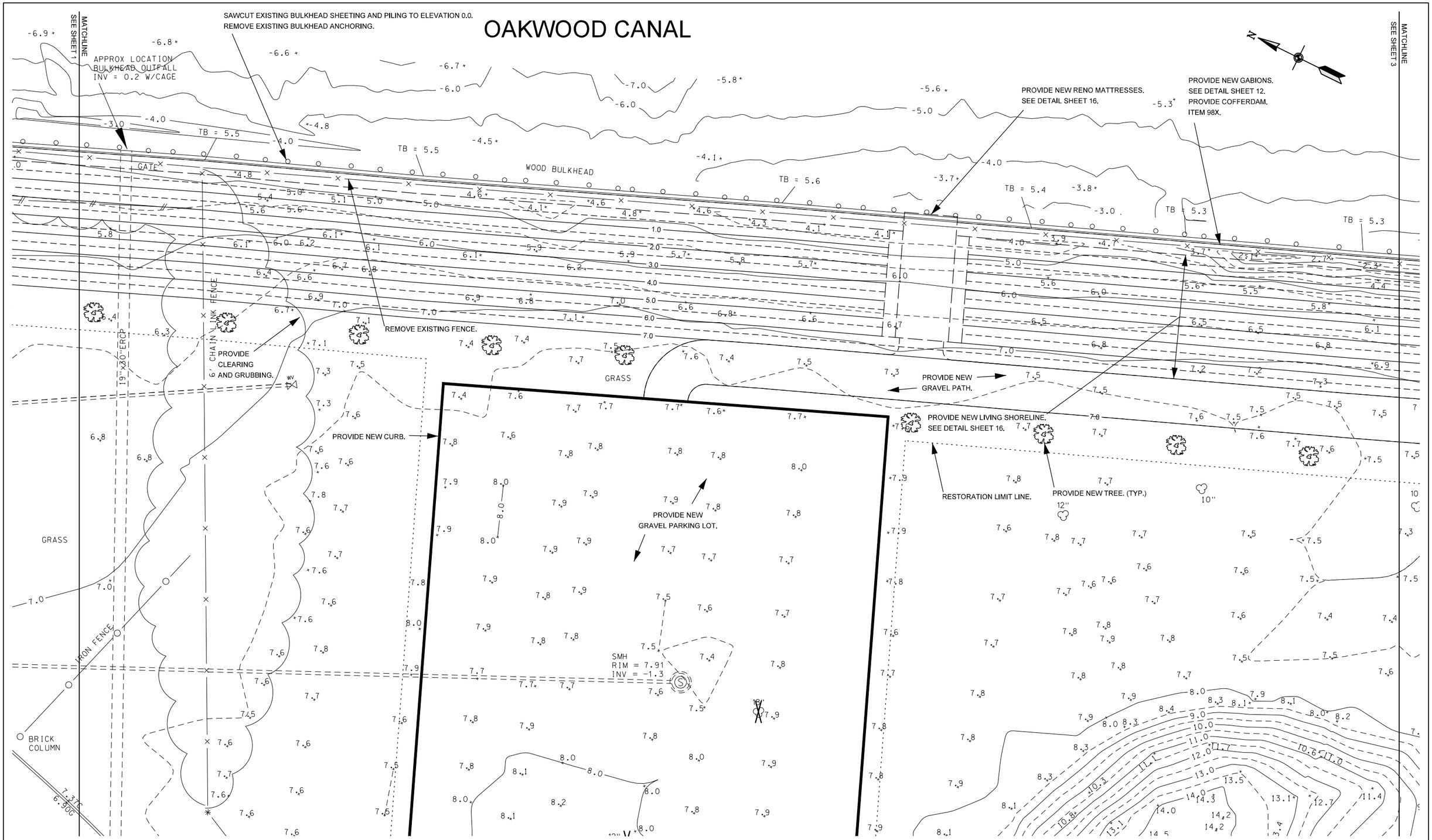
Date: MARCH 2018

File No.:

Dwg No.:

Sheet No.: 1 of 13

OAKWOOD CANAL



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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	MARCH 2018
File No.:	
Dwg No.:	
Sheet No.:	2 of 13

OAKWOOD CANAL

MATCHLINE SEE SHEET 2

MATCHLINE SEE SHEET 4

TB = 5.3

TB = 5.4

TB = 5.2

TB = 5.5

TB = 5.2

TB = 5.

REMOVE EXISTING FENCE.

PROVIDE NEW TREE. (TYP.)

PROVIDE NEW GRAVEL PATH.

BULKHEAD EXISTING DRAIN PIPE.

RESTORATION LIMIT LINE.

REMOVE EXISTING CATCH BASIN.

REMOVE EXISTING DRAIN PIPE.

PROVIDE CLEARING AND GRUBBING.

EROSION AREA

CONCRETE HEADWALL BULKHEAD OUTFALL INV = 1.4

SAWCUT EXISTING BULKHEAD SHEETING AND PILING TO ELEVATION 0.0. REMOVE EXISTING BULKHEAD ANCHORING.

PROVIDE NEW GABIONS. SEE DETAIL SHEET 12. PROVIDE COFFERDAM. ITEM 98X.

WOODED AREA TREES AND BRUSH

WOOD BULKHEAD

REMOVE EXISTING TREE.

PROVIDE NEW LIVING SHORELINE. SEE DETAIL SHEET 16.

GB
TCP = 7.00
GRATE = 6.22
INV = 1.36

CB
GRATE = 6.12
INV = 2.00

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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

Date: MARCH 2018

File No.:

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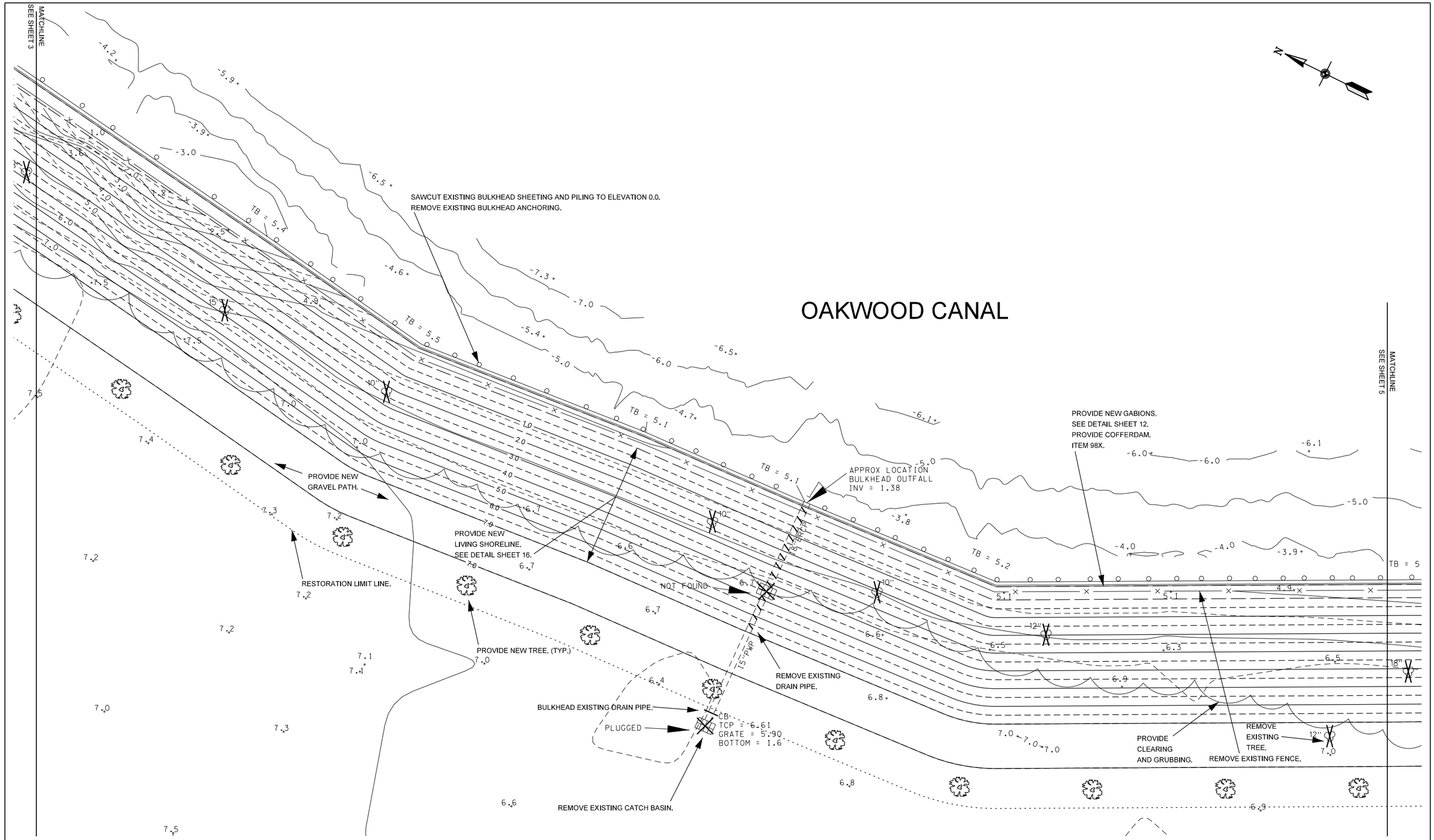
Sheet No.: 3 of 13



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BALDWIN HARBOR PARK PLAN

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

Date: MARCH 2018

File No.:

Dwg No.:

Sheet No.: 4 of 13

OAKWOOD CANAL

SAWCUT EXISTING BULKHEAD SHEETING AND PILING TO ELEVATION 0.0.
REMOVE EXISTING BULKHEAD ANCHORING.

PROVIDE NEW GABIONS.
SEE DETAIL SHEET 12.
PROVIDE COFFERDAM.
ITEM 98X.

MATCHLINE
SEE SHEET 5

MATCHLINE
SEE SHEET 4

WOOD BULKHEAD

APPROX LOCATION
BULKHEAD OUTFALL
INV = 2.50

REMOVE EXISTING FENCE.

WOODED AREA TREES AND BRUSH

PROVIDE NEW
GRAVEL PATH.

REMOVE EXISTING
DRAIN PIPE.

REMOVE
EXISTING
TREE.

CB
GRATE = 5.85'

REMOVE EXISTING CATCH BASIN.

BULKHEAD EXISTING DRAIN PIPE.

PROVIDE
CLEARING
AND GRUBBING.

RESTORATION LIMIT LINE.

PROVIDE NEW
LIVING SHORELINE.
SEE DETAIL SHEET 16.

PROVIDE NEW TREE. (TYP.)

NO.	DATE	REVISIONS

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Proposed Contours

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TOWN OF HEMPSTEAD N.Y. FOUNDED 1644

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BALDWIN HARBOR PARK PLAN

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BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
Date:	MARCH 2018
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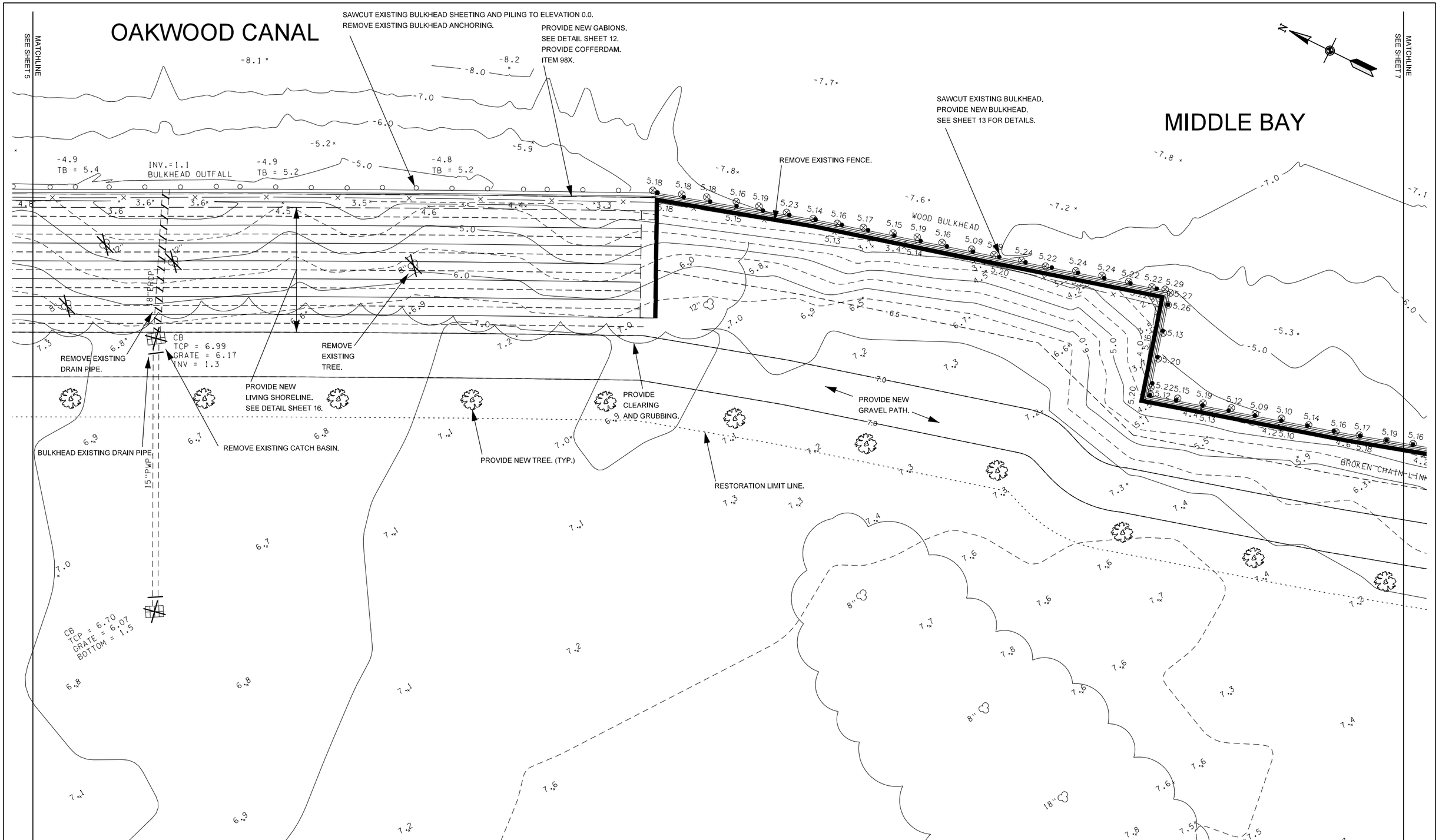

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BALDWIN, N.Y.

Scale: 1" = 20'

Date: MARCH 2018

File No.:

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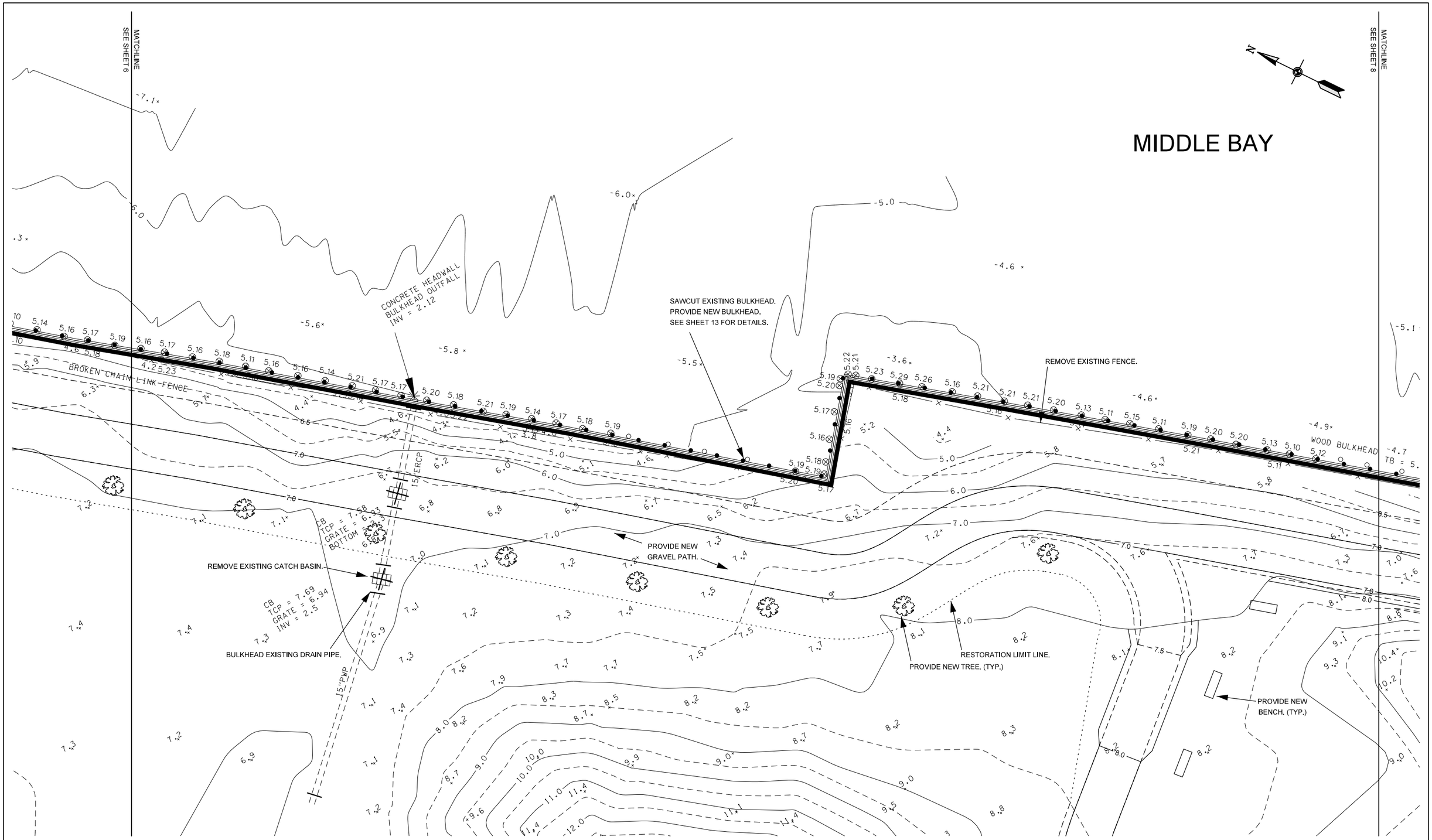
Sheet No.: 6 of 13



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SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

Date: MARCH 2018

File No.:

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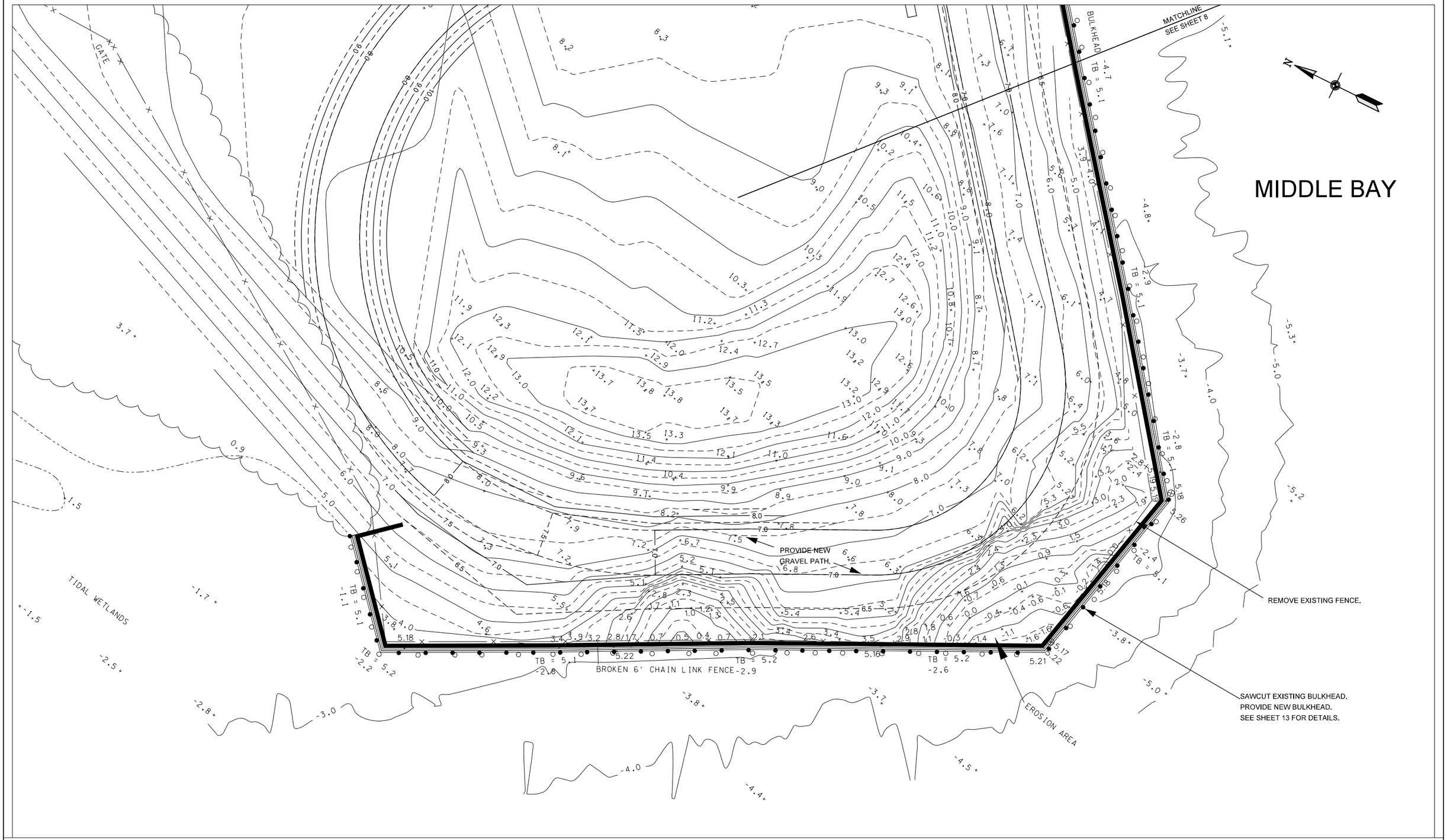
Sheet No.: 7 of 13



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BALDWIN HARBOR PARK PLAN

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BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale:	1" = 20'
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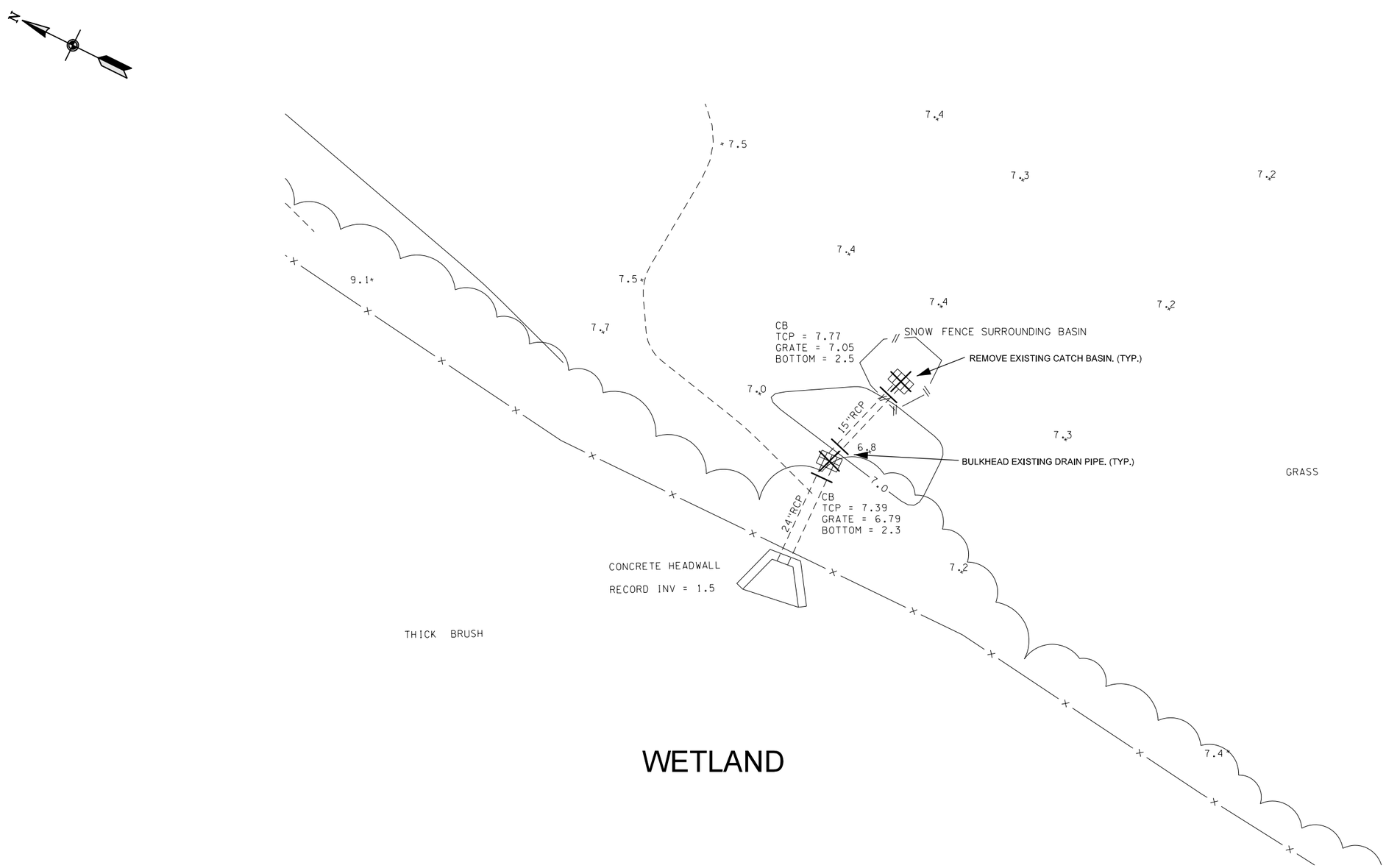
Sheet No.:	8 of 13



NOTE: SEE KEY MAP FOR LOCATION DETAILS.

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BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: 1" = 20'

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File No.:

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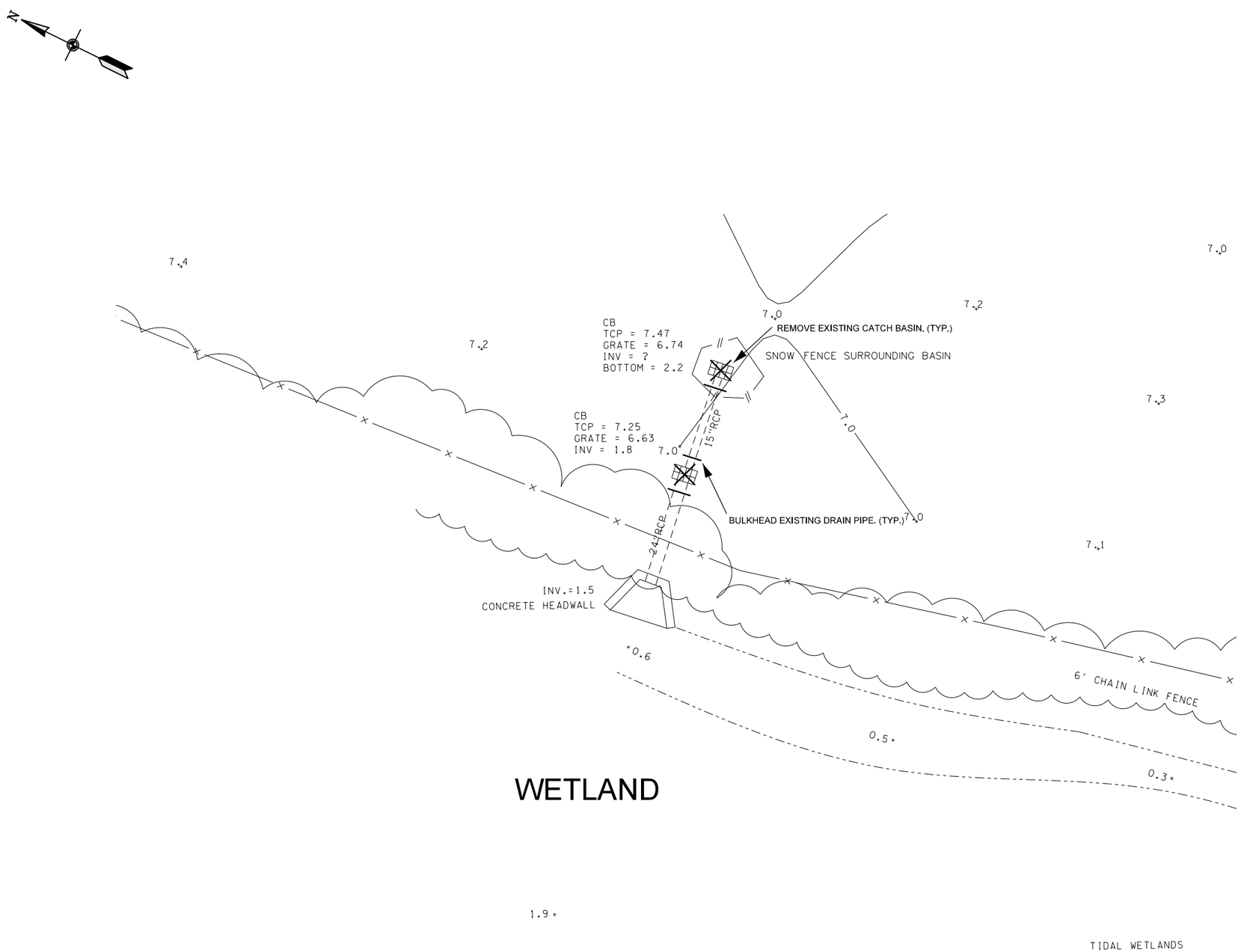

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Scale: 1" = 20'

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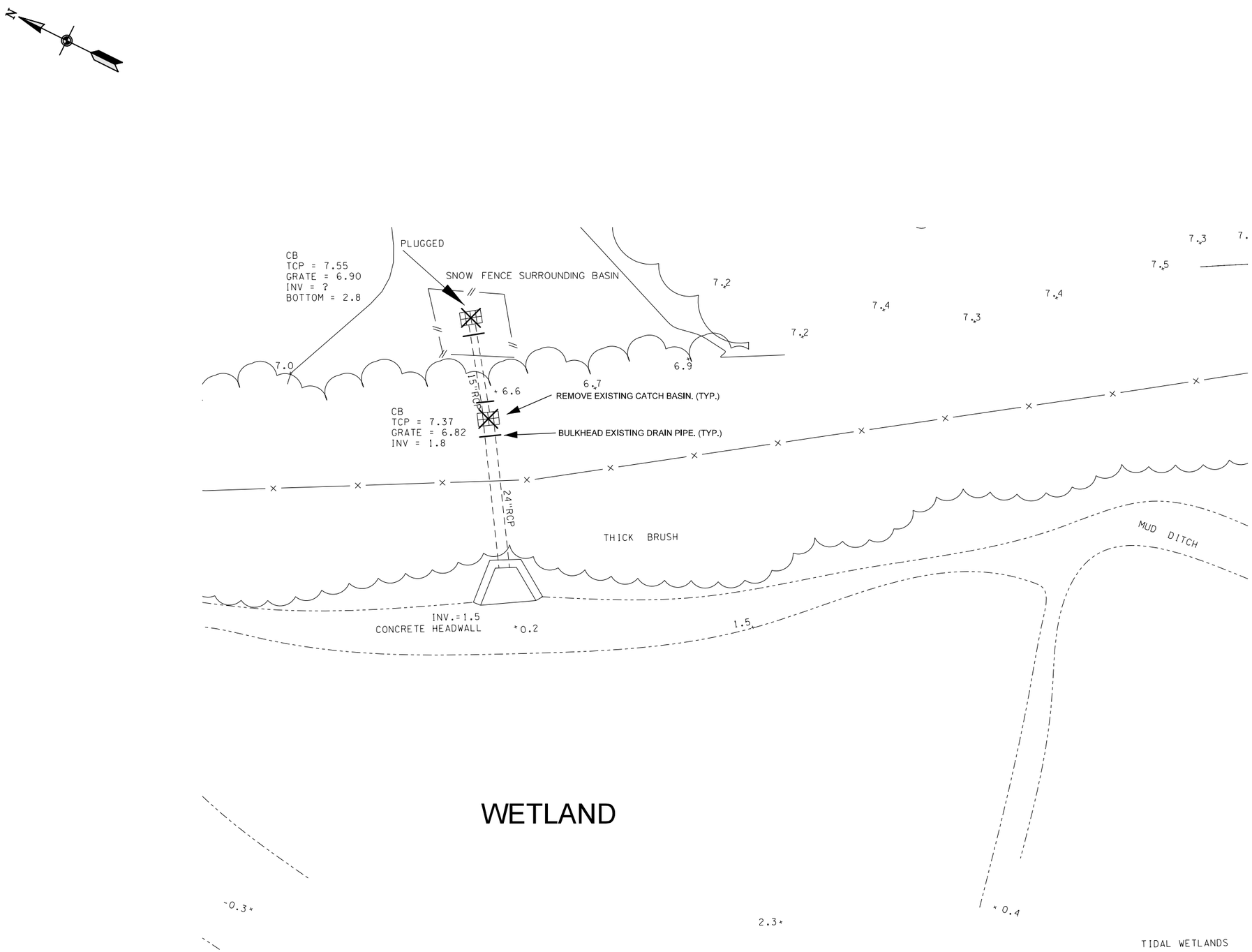

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BALDWIN, N.Y.

Scale: 1" = 20'

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File No.:

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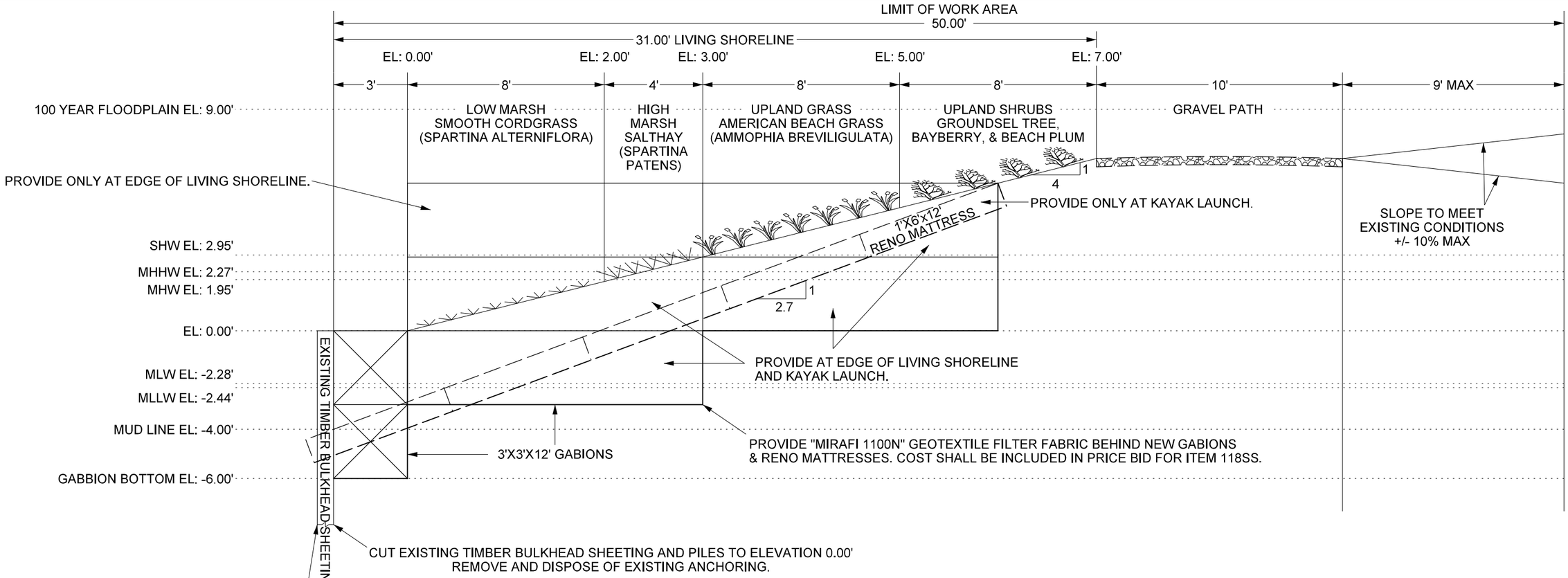
Sheet No.: 11 of 13



NOTE:
CONTRACTOR TO FURNISH, MAINTAIN, AND REMOVE COFFERDAMS AND DEWATERING EQUIPMENT.
THE SELECTION OF MATERIALS, THEIR ARRANGEMENT AND DETAILS SHALL BE THE CONTRACTORS OPTION AND RESPONSIBILITY.
ITEM 98X.

PLANTING SPECIFICATIONS

LOW MARSH:
Smooth Cordgrass (Spartina Alteriflora)
All plants to be Nursery Grown in 2" Peat pots, planted on 18" centers. Stagger rows.

HIGH MARSH:
Saltmeadow Cordgrass (Spartina Patens)
All plants to be Nursery Grown in 2" Peat pots, planted on 18" centers. Stagger rows.

UPLAND GRASS:
American Beachgrass (Ammonphila Breviligulata)
Install on 18" centers. 3 culms/planting unit. Stagger rows.
Fertilize in early spring. 30lbs inorganic nitrogen/acre.

UPLAND SHRUBS:
Groudsel Tree (Baccharis Hamlimifolia)
Bayberry (Myrica Pennsylvanica)
Beach Plum (Prunus Maritima)
All plants to be Nursery Grown, 2 Gallon Minimum. Install on 6' centers.
Fertilize with 1 tablespoon of Osmocote 18-6-12 per planting hole.

NOTE:
Smooth Cordgrass plantings to be installed prior to Saltmeadow Cordgrass plantings to prevent disturbence.
Saltmeadow Cordgrass plantings to be installed prior to upland plantings to prevent disturbence.
All plant installation and seeding to occur between March 15 and May 15 or September 15 to October 15.

HORIZONTAL AND VERTICAL CONTROL INDICATED IS IN NASSAU COUNTY DATUM. HORIZONTAL CONTROL INDICATED IS NAD83 (1996).US SURVEY FEET. VERTICAL CONTROL INDICATED IS NAVD (1988) FEET.

NO.	DATE	REVISIONS

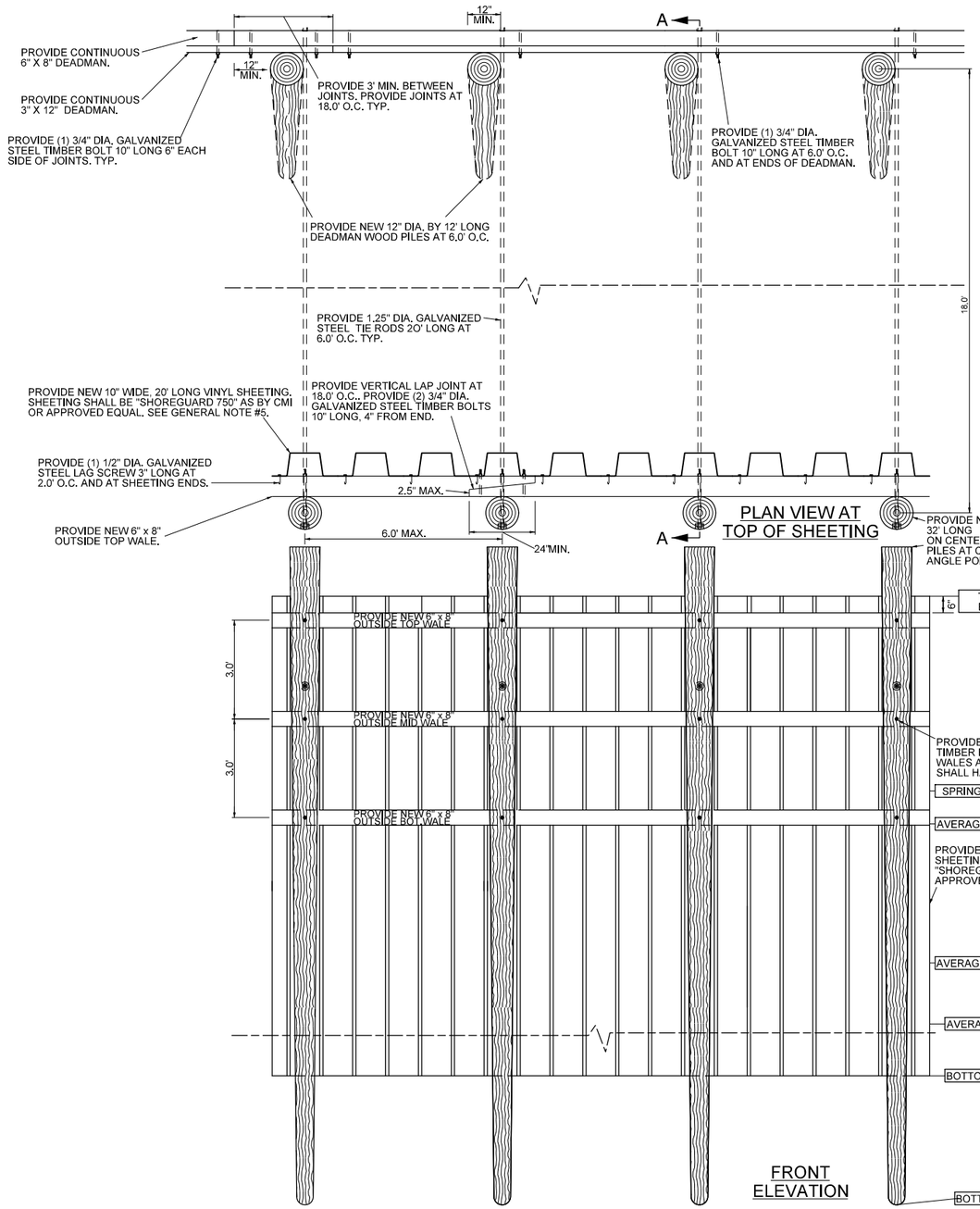
In Charge: D.L.T.
Compilation: J.M.T.
Design: J.M.T.
Drawn: J.M.T.
Checked: J.M.T.
Reviewed: D.L.T.

TOWN OF HEMPSTEAD N.Y. FOUNDED 1644
Department of Engineering

LIVING SHORELINE DETAIL

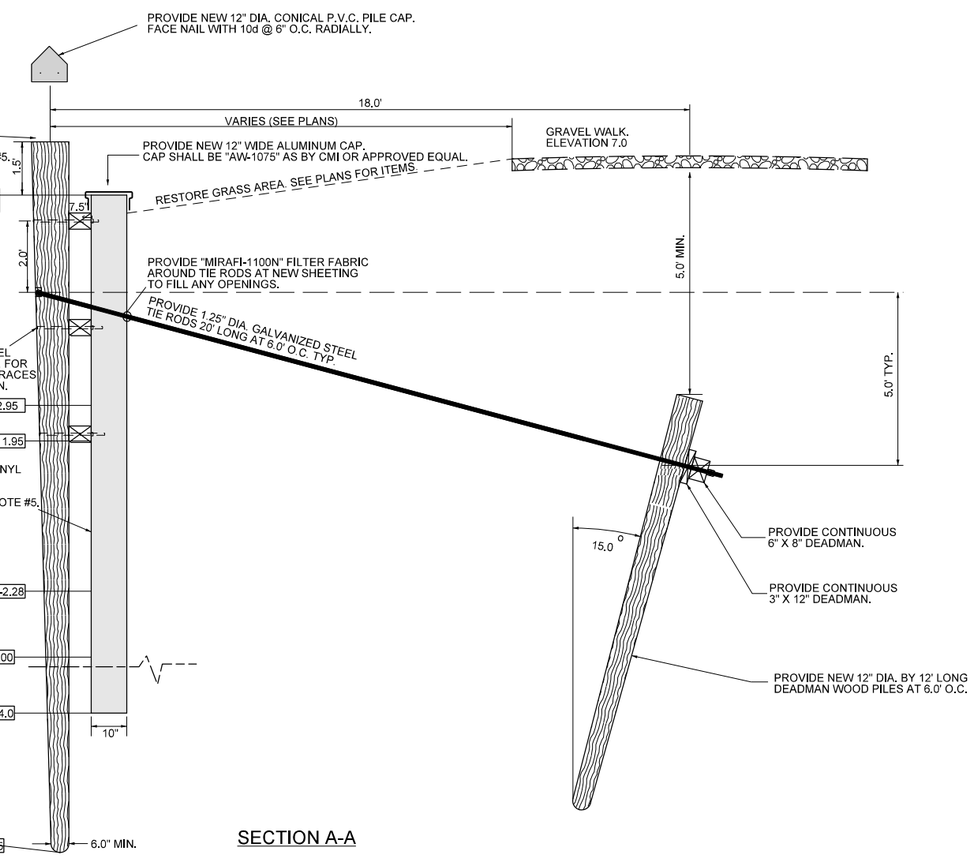
SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: MARCH 2018
File No.:
Dwg No.:
Sheet No.: 12 of 13



ITEM 204X GENERAL NOTES:

1. ALL LUMBER AND TIMBER SIZES INDICATED ARE NOMINAL. ALL DIMENSIONS INDICATED ARE FINISHED.
2. ALL LUMBER AND TIMBER SHALL BE CCA AND PRESSURE TREATED TO OBTAIN A MINIMUM RETENTION OF 2.5 LBS/CF.
3. NEW RETURNS AND CONNECTIONS TO EXISTING BULKHEADS AT LIMITS OF NEW BULKHEAD SHALL BE DETERMINED IN FIELD A.O.B.E.
4. EXISTING BULKHEADS AND EXISTING BULKHEAD ANCHORING COMPONENTS SHALL BE COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 204X.
5. SEE PLANS FOR NEW TOP OF SHEETING ELEVATIONS, NEW SHEETING LENGTHS AND NEW PILE LENGTHS.
6. ALL TIMBER AND CARRIAGE BOLTS SHALL BE PROVIDED WITH ONE N.Y.D.D.WASHER AND NUT AT END.
7. ALL LAG SCREWS SHALL BE PROVIDED WITH ONE N.Y.D.D.WASHER AT HEAD END.
8. ALL TIE RODS SHALL BE PROVIDED WITH TWO N.Y.D.D.WASHERS AND NUTS AT EACH END.
9. ALL BOLTS AND TIE RODS SHALL BE CUT FLUSH AT NUT END WHERE SHOWN AND WHERE NECESSARY TO INSTALL NEW BULKHEAD COMPONENTS.
10. ALL TIE RODS SHALL BE CUT FLUSH AT FRONT OF PILES. NUTS AND WASHERS SHALL BE COUNTERSUNK.
11. ALL HARDWARE AND FASTENERS SHALL BE GALVANIZED STEEL UNLESS OTHERWISE SHOWN AND MEET N.C.D.P.W SPECIFICATIONS.
12. ALL OPENINGS IN NEW SHEETING FOR TIE RODS SHALL BE LIMITED IN SIZE AS FOLLOWS; THRU WALL DIMENSION PLUS ONE INCH.



HORIZONTAL AND VERTICAL CONTROL INDICATED IS IN NASSAU COUNTY DATUM. HORIZONTAL CONTROL INDICATED IS NAD83 (1996),US SURVEY FEET. VERTICAL CONTROL INDICATED IS NAVD (1988) FEET.

NO.	DATE	REVISIONS

In Charge:	D.L.T.
Compilation:	J.M.T.
Design:	J.M.T.
Drawn:	J.M.T.
Checked:	J.M.T.
Reviewed:	D.L.T.

TOWN OF HEMPSTEAD, N.Y. FOUNDED 1644
Department of Engineering

BULKHEAD DETAIL

SHORELINE STABILIZATION
BALDWIN HARBOR PARK
BALDWIN, N.Y.

Scale: NONE
Date: MARCH 2018
File No.:
Dwg No.:
Sheet No.: 13 of 13

Attachment 3: SHPO Correspondence

Baldwin Park – Shoreline Stabilization Project

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

ANDREW M. CUOMO
Governor

ROSE HARVEY
Commissioner

December 7, 2018

James McAllister
Governor's Office of Storm Recovery
500 Bi-County Boulevard
Farmingdale, NY 11735

Re: HTF/ GOSR/ HUD CDBG-DR/ Storm resiliency:
Baldwin Park Shoreline Stabilization
Hempstead/ Nassau County
18PR07551

Dear Mr. McAllister:

Thank you for requesting the comments of the New York State Historic Preservation Office (SHPO). We have reviewed the submitted materials in accordance with Title 54, Section 306108 of the National Historic Preservation Act of 1966. These comments are those of the SHPO and relate only to Historic/ Cultural resources. They do not include other environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the National Environmental Policy Act and/or the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8).

Based on this review, it is the opinion of SHPO that there will be No Historic Properties Affected by the proposed undertaking.

If I can be of further assistance, contact me at (518) 268-2187 or Larry.moss@parks.ny.gov

Sincerely,

L Moss

Larry K Moss, Historic Preservation Technical Specialist

CC: Cristy Boyd, CSA Group

From: Bonney Hartley
To: Barthelme, Mary (STORMRECOVERY)
Subject: RE: Section 106 Compliance for the Baldwin Park Water Esplanade Project, Town of Hempstead, Nassau County, New York
Date: Monday, January 23, 2017 1:42:28 PM

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Hi Mary:

I've completed review. On behalf of Stockbridge Munsee Community I confirm we do not have significant cultural resource concerns with the Baldwin Park Water Esplanade Project.

Thank you,

Bonney

Bonney Hartley
Tribal Historic Preservation Officer
Stockbridge-Munsee Mohican Tribal Historic Preservation
New York Office
65 1st Street
Troy, NY 12180
(518) 244-3164
Bonney.Hartley@mohican-nsn.gov
www.mohican-nsn.gov

From: Barthelme, Mary (STORMRECOVERY) [mailto:Mary.Barthelme@stormrecovery.ny.gov]
Sent: Wednesday, January 04, 2017 12:03 PM
To: Bonney Hartley
Cc: Accardi, Matt (STORMRECOVERY)
Subject: RE: Section 106 Compliance for the Baldwin Park Water Esplanade Project, Town of Hempstead, Nassau County, New York

Hello Bonney,

I apologize- the consultation just sent did not include the maps. Please see the revised version attached.

Thanks,

Mary

From: Barthelme, Mary (STORMRECOVERY)
Sent: Wednesday, January 04, 2017 11:58 AM
To: 'Bonney Hartley' <Bonney.Hartley@mohican-nsn.gov>
Cc: Accardi, Matt (STORMRECOVERY) <Matt.Accardi@stormrecovery.ny.gov>
Subject: Section 106 Compliance for the Baldwin Park Water Esplanade Project, Town of Hempstead, Nassau County, New York

Dear Bonney,

Please see the attached consultation for the above-mentioned project.

A hard copy is being sent today by mail. Please let me know if you have any questions.

Thank you,

Mary Barthelme

Mary Barthelme
Environmental and Historic Preservation Specialist
Governor's Office of Storm Recovery
99 Washington Avenue, Suite 1224, Albany NY 12260
O: (518) 473-0154 I C: (646) 706-6748 I F: (518) 474-6102 I
Mary.Barthelme@stormrecovery.ny.gov
www.stormrecovery.ny.gov

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Appendix G: SEQRA Type II Memo

Governor's Office of Storm Recovery

ANDREW M. CUOMO
Governor

TO: Environmental Review Record

FROM: Lori A Shirley, Certifying Officer, GOSR

DATE: June 27, 2019

RE: SEQRA Type II Determination – Baldwin Park Shoreline Stabilization Project within the Town of Hempstead, Nassau County, New York

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Proposed Action: The Governor's Office of Storm Recovery (GOSR) proposes to provide Community Development Block Grant – Disaster Recovery (CDBG-DR) funding to the Town of Hempstead for the implementation of storm protection measures along the shoreline of Baldwin Park, located within the Hamlet of Baldwin, Town of Hempstead, Nassau County, New York. The Baldwin Park Shoreline Stabilization Project would minimize further erosion and damage that resulted from Superstorm Sandy and other recent storms. The Proposed Project would include:

- Installation of sediment control/surface water protection devices and a temporary cofferdam.
- Removal of 1,600 linear feet of existing and compromised timber bulkhead.
- Rough grading to provide for1,600 feet of living shoreline. The living shoreline would consist of an armored toe stabilization set at the mean highwater line designed with large revetment stones.
- In-place and in-kind replacement of approximately 800 linear feet of existing timber bulkhead with approximately 138 new 12-inch diameter timber piles to be installed using an impact hammer along the replacement bulkhead; a vibratory hammer will be utilized to facilitate the installation of new vinyl sheeting. The new bulkhead would be set with a top elevation of 5.25, consistent with the existing timber bulkhead elevation.
- Removal of five existing outfalls and associated catch basins.
- Removal of 36 trees in poor condition to be replaced with 63 trees along the shoreline.
- Construction of an approximately 0.3-acre gravel parking lot near the northern section of the site.
- Construction of an eight-foot wide gravel pedestrian path.
- Construction of a permanent waterfront landing for non-motorized equipment (canoes and kayaks) for use by the public.

State Environmental Quality Review Act (SEQRA) Classification: Pursuant to the Disaster Relief Appropriations Act, 2013 (Public Law 113-2) and the Housing and Community Development Act (42 U.S.C. § 5301 et seq.), GOSR, operating under the auspices of New York State Homes and Community Renewal's (HCR) and the New York Rising Community Reconstruction and Infrastructure Program Fund, disburses funding made available by the U.S. Department of Housing & Urban Development's (HUD) CDBG-DR program. In this role, GOSR serves as an Involved Agency and must make a discretionary decision to fund the proposed action. It is independently responsible for ensuring that its own decision is consistent with the requirements of the New York State Environmental Conservation Law Article 8 (SEQRA) with regulations found at 6 NYCRR Part 617.

This action would constitute the replacement, rehabilitation or reconstruction of the existing shoreline bulkhead in kind, on the same site (617.5(c)(2)). Replacement in kind refers to function, size and footprint. The size and footprint of the bulkhead will not change. In addition, the proposed Project will result in improved function of the structure. Therefore, GOSR has classified the Baldwin Park Shoreline Stabilization Project within the Town of Hempstead, Nassau County, New York as a Type II action pursuant to 6 NYCRR 617.5(c)(2).