

Sunrise Wind Farm Project

Appendix S2 Terrestrial Archaeological Resources Phase 1B Assessment

Prepared for:

**Sunrise
Wind**

Powered by
Ørsted &
Eversource

October 28, 2021

Revision 1 – August 19, 2022



Sunrise Wind Farm Project

Phase IB Terrestrial Archaeological Resources Assessment - Sunrise Wind Onshore Facilities

Redacted Version: Confidential and/or privileged information removed

Revised May 2022

Prepared by:

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Submitted to:

Bureau of Ocean Energy Management
National Park Service
Shinnecock Indian Nation
Delaware Tribe of Indians
Unkechaug Indian Nation
Narragansett Indian Tribe
Mashpee Wampanoag Tribe
Wampanoag Tribe of Gay Head (Aquinnah)
Mashantucket Pequot Tribal Nation
Mohegan Tribe
New York State Historic Preservation Office
New York State Energy Research & Development Authority
New York State Department of Public Service
United States Fish and Wildlife Service

MANAGEMENT SUMMARY

NYSHPO Project Review Number:	19PR00055
Involved State and Federal Agencies:	Bureau of Ocean Energy Management (BOEM); National Park Service (NPS); New York State Energy Research and Development Authority (NYSERDA); New York State Department of Public Service (NYS DPS); New York State Historic Preservation Office (NYSHPO)
Phase of Survey:	Phase IB Archaeological Survey
Location Information:	Town of Brookhaven, Suffolk County, New York
Survey Area:	
Project Description:	The construction and installation of onshore electrical and ancillary components to connect an offshore wind farm to New York State's high-voltage electrical transmission network.
Project Area:	Preliminary Area of Potential Effect measures approximately 411.1 acres (166.4 hectares)
USGS 7.5-Minute Quadrangle Map:	<i>Bellport, NY; Moriches, NY; Patchogue, NY; Pattersquash Island, NY</i>
Archaeological Survey Overview:	
Number of shovel tests:	1,470 (1,365 at 50-ft [15-m] intervals, and 105 at 26.2-ft [8-m] intervals)
Survey area coverage:	Linear - 39,036 ft (11,898 m) Block - 40.05 acres (16.21 ha)
Results of Archaeological Survey:	
Native American sites identified:	1
Native American isolates identified:	0
Historic sites identified:	0
Historic isolates identified:	0
Report Authors:	Joseph Kwiatek and Matthew Victor Weiss, RPA
Date of Report:	September 2021, Revised May 2022

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1.0 INTRODUCTION

1.1 Purpose of the Investigation

On behalf of Sunrise Wind LLC (Sunrise Wind), a 50/50 joint venture between Orsted North America Inc. (Orsted NA) and Eversource Investment LLC (Eversource), Environmental Design & Research, Landscape Architecture, Engineering, & Environmental Services, D.P.C. (EDR) has prepared this Phase IB Terrestrial Archaeological Resources Assessment (TARA) for the proposed Sunrise Wind Farm Project (the Project). The TARA pertains only to terrestrial archaeology, and as such is only concerned with the Onshore Facilities associated with the Project, which are located entirely within the Town of Brookhaven, Suffolk County, New York. A Marine Archaeological Resources Assessment (MARA) of the proposed offshore Project facilities was prepared under separate cover. The purpose of this TARA was to determine the presence or absence of previously unidentified terrestrial archaeological resources located within the Project's Preliminary Area of Potential Effect (PAPE). The information and recommendations included in this report are intended to assist the New York State Historic Preservation Office (NYSHPO), the Bureau of Ocean Energy Management (BOEM), and other state and/or federal agencies in their review of the Project's Onshore Facilities under Article VII of the New York State Public Service Law, the New York State Environmental Quality Review Act (SEQRA), Section 14.09 of the New York State Parks, Recreation and Historic Preservation Law, and/or Section 106 of the National Historic Preservation Act, as applicable.

The TARA was conducted under the supervision of an archaeologist who meets the U.S. Secretary of Interior's Standards for Archaeology and Historic Preservation (36 CFR 61) and is a Registered Professional Archaeologist (RPA). The survey was conducted in accordance with the New York Archaeological Council's (NYAC's) *Standards for Cultural Resources Investigations and the Curation of Archaeological Collections in New York State* (the *NYAC Standards*; NYAC 1994) and the NYSHPO's *Phase I Archaeological Report Format Requirements* (NYSHPO 2005), as appropriate.

BOEM will consult with Native American tribes and other parties to determine an appropriate approach for the protection of cultural resources present within the PAPE and that may be affected by the Project.

1.2 Onshore Facilities Location and Description

Sunrise Wind proposes to construct, own, and operate an offshore wind farm to be located in federal waters on the Outer Continental Shelf (OCS), approximately 18.9 statute miles (mi) (16.4 nautical miles [nm]/30.4 kilometers [km]) southwest of Martha's Vineyard, Massachusetts, and approximately 30.5 statute mi (26.5 nm/48.1 km) east of Montauk, New York. Project components will be located in federal waters on the OCS, in state waters of New York, and onshore in the Town of Brookhaven, Suffolk County, New York. The proposed interconnection location is the Holbrook Substation, which is owned and operated by the Long Island Power Authority (LIPA).

The Project's Onshore Facilities, subject of this TARA, are located entirely within the Town of Brookhaven, Suffolk County, New York (see Figure 1.2-1). The Onshore Facilities will consist of electrical and ancillary components to connect the offshore Sunrise Wind Farm to the high-voltage electrical transmission network (grid) in New York. For the purposes of this TARA, the PAPE was determined based on the maximum

horizontal limits of potential ground disturbance associated with construction of the Onshore Facilities, inclusive of options for facility or workspace siting that have not been finalized. This PAPE serves as the bounds within which the Phase IB archaeological survey was conducted. It is anticipated that the vertical limits of disturbance for construction of the Onshore Facilities will range from approximately 3-ft (0.9-m) to 15-ft (4.6-m) in depth, based on the respective component. BOEM will formally determine the Area of Potential Effects in consultation with NYSHPO, per 36 CFR 800.4(a).

The Project's offshore components are not considered part of the PAPE for terrestrial archaeological resources given their location in the marine environment. The Project's Onshore Facilities are expected to consist of the following:

- Onshore Transmission Cable;
- Onshore Converter Station [direct current] (OnCS–DC); and
- Onshore Interconnection Cable.

The Onshore Transmission Cable will extend from the landfall site within Smith Point County Park on Fire Island to the proposed OnCS–DC and connect to the Holbrook Substation via an Onshore Interconnection Cable (see Figure 1.2-2). The Onshore Transmission Cable is proposed to be installed primarily within a trench within public road rights-of-way. Wherever possible, the Onshore Transmission Cable will run underneath existing paved sections of active roadways. Portions of the Onshore Transmission Cable and Onshore Interconnection Cable will be installed via pipe jacking, or other trenchless crossing methods. The approximate footprint of activities associated with these processes have been identified and are represented in Figure 1.2-2.

The Onshore Transmission Cable is proposed to follow the **Long Island Expressway (LIE) Service Road Route** (the **Preferred Route**) from Fire Island to the OnCS–DC. The Preferred Route collectively has a PAPE which measures approximately 17.0 mi (27.4 km) long and covers approximately 243.87 acres (98.69 hectares [ha]). The Preferred Route is proposed along select portions of the following roadways and trenchless crossings, listed geographically from landfall to the Interconnection area (see Figure 1.2-2):

- **Smith Point Marina Parking Lot**; and
- **East Concourse Drive**, from the Smith Point Marina Parking Lot to the intersection of William Floyd Parkway, which measures approximately 0.35 mi (0.56 km) long; and
- **William Floyd Parkway**, from the intersection of East Concourse Drive to the intersection of Surrey Circle, which measures approximately 3.63 mi (5.84 km) long; and
- **Surrey Circle**, from the intersection of William Floyd Parkway to the intersection of Northern Boulevard, which measures approximately 0.14 mi (0.23 km) long; and
- **Church Road**, a Long Island Railroad (LIRR) trenchless crossing, from the intersection of Northern Boulevard and Surrey Circle to Mastic Boulevard West approximately 380 feet (ft) (116 meters [m]) west of the intersection of William Floyd Parkway, which measures approximately 0.10 mi (0.16 km) long; and
- **Mastic Boulevard West**, beginning approximately 380 ft (116 m) west of the intersection of William Floyd Parkway to the intersection of Francine Place, which measures approximately 0.16 mi (0.26 km) long; and
- **Francine Place**, from the intersection of Mastic Boulevard West, crossing Montauk Highway, to the intersection of Revilo Avenue, which measures approximately 0.12 mi (0.19 km) long; and

- **Revilo Avenue**, from the intersection of Montauk Highway to the intersection of the Sunrise Highway off-ramp, which measures approximately 0.14 mi (0.23 km) long; and
- **A Sunrise Highway trenchless crossing**, from the intersection of Revilo Avenue and the Sunrise Highway off-ramp to Revilo Ave, which measures approximately 0.11 mi (0.18 km) long; and
- **Revilo Avenue**, beginning at the northern end of a Sunrise Highway trenchless crossing to the intersection of Victory Avenue, which measures approximately 0.06 mi (0.10 km) long; and
- **Victory Avenue**, from the intersection of Revilo Avenue to the intersection of Horseblock Road, which measures approximately 2.11 mi (3.40 km) long; and
- **Horseblock Road**, from the intersection of Victory Avenue to the intersection of Manor Road, which measures approximately 3.21 mi (5.17 km) long; and
- **Manor Road**, from the intersection of Horseblock Road to a LIRR trenchless crossing, which measures approximately 0.10 mi (0.16 km) long; and
- **A LIRR trenchless crossing**, from the northern end of Manor Road to the intersection of North Horseblock Road and Munsells Road, which measures approximately .06 mi (0.10 km) long; and
- **North Horseblock Road**, from the intersection of Munsells Road to the intersection of Horseblock Road, which measures approximately 0.32 mi (0.51 km) long; and
- **Horseblock Road**, from the intersection of North Horseblock Road to the intersection of LIE Service Road/Express Drive South, which measures approximately 0.08 mi (0.13 km) long; and
- **LIE Service Road/Express Drive South**, from the intersection of Horseblock Road to the intersection of Waverly Avenue, which measures approximately 3.81 mi (6.13 km) long; and
- **Waverly Avenue**, from the intersection of LIE Service Road/Express Drive South to the intersection of Long Island Avenue, which measures approximately 0.43 mi (0.69 km) long; and
- **Long Island Avenue**, from the intersection of Waverly Avenue until it becomes Union Avenue, which measures approximately 1.00 mi (1.61 km) long.

The Preferred Route includes a combination of multiple segments of Variations to the Onshore Transmission Cable routes (Variations) that were evaluated by EDR in the *Phase IA Archaeological Survey* report and subsequent addenda (EDR 2020, 2021a, 2021b). All Variations were included in the Project's Phase IA archaeological evaluations, but some Variations are no longer being considered for the Preferred Route (these are described in this report as Off-Route Variations). Project components originally proposed along the Off-Route Variations were moved or redesigned concurrent with and following archaeological survey fieldwork to avoid impacts to archaeological resources, or due to other siting constraints (e.g., engineering concerns, wetland impacts, land-owner preferences, etc.). These Off-Route Variations are no longer included as part of the PAPE, as they have been eliminated from consideration for the Preferred Route.

The Off-Route Variations investigated during the Project's Phase IA archaeological evaluations collectively measure approximately 4.4 mi (7.1 km). The Off-Route Variations include the following roadways and trenchless crossings, listed geographically from landfall to the Interconnection area (see Figure 1.2-2):

- **William Floyd Parkway**, from the intersection of Surrey Circle to the intersection of Montauk Highway, which measures approximately 0.32 mi (0.51 km) long; and
- **Northern Boulevard**, from the intersection of William Floyd Parkway to the intersection of Surrey Circle, which measures approximately 0.09 mi (0.14 km) long; and

- **Mastic Boulevard West**, from the intersection of William Floyd Parkway to a LIRR trenchless crossing, and from the intersection of Francine Place to the Intersection of Ashley Place, which measure approximately 0.09 mi (0.14 km) and 0.18 mi (0.29 km) long, respectively; and
- **Ashley Place**, from the intersection of Mastic Boulevard West to the intersection of Montauk Highway, which measures approximately 0.13 mi (0.21 km) long; and
- **Candido Avenue South**, from the intersection of Montauk Highway to a Sunrise Highway trenchless crossing, which measures approximately 0.15 mi (0.24 km) long; and
- **A Sunrise Highway trenchless crossing**, from between the northern westbound lane of Sunrise Highway and Revilo Avenue to south of the southern terminus of Candido Avenue North, and from the northern terminus of Candido Avenue South to the southern terminus of Candido Ave north, which measure approximately 0.20 mi (0.32 km) and 0.07 mi (0.11 km) long, respectively; and
- **Candido Avenue South**, from the intersection of a Sunrise Highway trenchless crossing to the Intersection of Victory Avenue which measures approximately 0.04 mi (0.06 km) long; and
- **Montauk Highway**, from the intersection of William Floyd Parkway to the intersection of Yaphank Avenue, which measures approximately 2.60 mi (4.18 km) long; and
- **A Sunrise Highway trenchless crossing**, from the intersection of Montauk Highway and Smith Road to the southern eastbound lane of Sunrise Highway, which measures approximately 0.10 mi (0.16 km) long; and
- **Yaphank Avenue**, from the intersection of Montauk Highway to a Sunrise Highway trenchless crossing, and from the Sunrise Highway trenchless crossing to Horseblock Road, which measure approximately 0.30 mi (0.48 km) and 0.17 mi (0.27 km) long, respectively; and
- **A Sunrise Highway trenchless crossing**, from between Yaphank Avenue and the southern eastbound lane of the Sunrise Highway to between the northern westbound lane of Sunrise Highway and Yaphank Avenue, which measures approximately 0.07 mi (0.11 km) long; and
- **Peconic Avenue**, from the intersection of Horseblock Road to the intersection of North Ocean Avenue, which measures approximately 2.91 mi (4.68 km) long; and
- **North Ocean Avenue**, from the intersection of Peconic Avenue to the intersection of Long Island Avenue, which measures approximately 0.11 mi (0.18 km) long; and
- **Long Island Avenue**, from the intersection of North Ocean Avenue to the intersection of Waverly Avenue, which measures approximately 1.32 mi (2.12 km) long; and
- **LIE Service Road/Express Drive South**, from the intersection of Waverly Avenue to approximately 0.69 mi (1.1 km) to the west of the intersection of Morris Avenue, which measures approximately 1.06 mi (1.71 km) long; and
- **Nicolls Road**, from the intersection of the Nicolls Road exit ramp and the LIE Service Road/Express Drive South to the intersection of Long Island Avenue, which measures approximately 0.52 mi (0.84 km) long; and
- **Union Avenue**, from the intersection of the western southbound lane of Nicolls Avenue extending approximately 270 ft (83 m) to the west, and from the intersection of Middle Avenue to the western terminus of Union Avenue in the cul-de-sac, which measures approximately 0.34 mi (0.55 km) long; and
- **Middle Avenue**, from the intersection of Long Island Avenue to the intersection of Union Avenue, which measures approximately 0.10 mi (0.16 km) long.

All Variations along the Preferred Route have been subjected to Phase IB survey. However, since the Phase IB archaeological survey fieldwork described in this report occurred concurrent with the Project design process, portions of Off-Route Variations along Ashley Place, Montauk Highway, and Yaphank Avenue were subjected to Phase IB survey before they were removed from consideration (see Figure 3.2-1, Table 3.2-1). These Off-Route Variations are no longer part of the PAPE.

Sunrise Wind has chosen the **Union Avenue Site** as the location of the **OnCS–DC**, which is located on the south side of Union Avenue and has a PAPE of approximately 7.00 acres (2.84 ha). This site is bound to the north by Union Avenue and woodland; to the east by commercial development; to the south by the Long Island Rail Road (LIRR) and industrial development; and to the west by industrial development (see Figure 1.2-2). No Phase IB survey was conducted on the proposed OnCS–DC site as it was determined to be previously disturbed in the *Phase IA Archaeological Survey* (EDR 2020).

Electricity generated by the offshore wind farm will connect to the grid via the **Onshore Interconnection Cable**, which will connect the OnCS–DC with the Holbrook Substation. Several potential routes for the Onshore Interconnection Cable were evaluated in the *Phase IA Archaeological Survey* and subsequent addenda (EDR 2020, 2021a, 2021b). The proposed corridor options for the Onshore Interconnection Cable are depicted in Figure 1.2-2, to the east and west of the existing NYPA power plant and Holtsville Gas plant. Portions of the Onshore Interconnection Cable will be installed via pipe jacking, or other trenchless crossing, the approximate footprint of activities associated with which have been identified at this time (see Figure 1.2-2). The PAPE of the Onshore Interconnection Cable (including all proposed corridor options, associated trenchless crossing footprints, and planned Holbrook Substation Expansion Area) measures approximately 163.3 acres (66.1 ha). As of this filing, the accessible portions of the Onshore Interconnection Cable corridor on Public Service Enterprise Group (PSEG), New York Power Authority (NYPA), National Grid (NatGrid), and LIPA property have been subjected to Phase IB survey (see Figure 1.2-2).

Portions of Smith Point County Park on both Fire Island and Long Island containing both the Landfall and Intercoastal Waterway (ICW) Work Areas are also part of the Onshore Facilities and have been included as part of the PAPE for terrestrial archaeological resources. Ground disturbance within the Landfall/ICW Work Areas will be associated with the Onshore Transmission Cable and horizontal directional drilling (HDD) activities on both Fire Island and Long Island (see Figure 1.2-2). The exact alignment of the landfall is still being determined but will occur within the Smith Point Marina Parking Lot. The PAPE for the Landfall and ICW Work Areas measures approximately 6.5 acres (2.6 ha) and 7.3 acres (3.0 ha), respectively. No Phase IB survey was conducted within the Landfall or ICW Work Areas as they were determined to be previously disturbed (see Section 2.2, below; EDR 2020).

A number of sites are in the preliminary stages of evaluation for use as Laydown Yards. None of the potential Laydown Yards have been included within the PAPE as of this filing. Once finalized, the Laydown Yards will be incorporated into the terrestrial archaeology PAPE and evaluated/surveyed in a planned addendum report.

The following terms are used throughout this report:

- **The Project:** The proposed construction and operation of an offshore wind farm, as well as all associated offshore and onshore facilities.

- **The Preliminary Area of Potential Effect (PAPE):** The maximum spatial limits of ground disturbance associated with the Project's Onshore Facilities, which have the potential to impact terrestrial archaeological resources.
- **The Onshore Transmission Cable:** The electrical transmission cable that will run from the landfall site to the OnCS–DC. The Onshore Transmission Cable will connect to the Sunrise Wind Export Cable via a transition joint bay (underground vault) at the landfall site, which will be reached via HDD to avoid disturbance to ground features. The proposed landfall site is approximately 700 feet (ft) (213 meters [m]) landward from the shoreline on Fire Island.
- **Onshore Converter Station (OnCS–DC):** The interconnection between electricity generated by the offshore wind farm and the existing LIPA electrical transmission system by converting the Project voltage to 138 kilovolts alternating current (kv AC).
- **Onshore Interconnection Cable:** The transmission cables interconnecting the OnCS–DC to the existing Holbrook Substation.
- **Landfall and Intercoastal Waterway (ICW) Work Areas:** The areas within which HDD activities will occur associated with the transition from the Sunrise Wind Export Cable to the Onshore Transmission Cable (Landfall Work Area) and the crossing of Narrow Bay (ICW Work Area).

1.3 Report Organization

This TARA is organized into the following sections:

- **Section 2.0 – Background and Research Design:** This report section documents the background research conducted in order to determine whether archaeological resources may be physically impacted by Onshore Facility construction. Section 2 documents agency and stakeholder outreach to date (Section 2.1), summarizes the results of previously conducted Phase IA archaeological surveys including existing conditions within the PAPE (Section 2.2), and describes how the sensitivity assessment and prior ground disturbance inform the research design (Section 2.3).
- **Section 3.0– Phase IB Archaeological Survey:** This report section summarizes the Phase IB archaeological survey. Section 3 outlines the organization and methodology (Section 3.1), the results of the fieldwork effort (Section 3.2), and the newly identified archaeological resources (Section 3.3).
- **Section 4.0– Summary and Conclusions:** This report section summarizes the findings and recommendations of this TARA. A summary of the Phase IB TARA results relating to newly identified archaeological resources is discussed (Section 4.1). This section also presents EDR's recommendations regarding mitigation and avoidance as well as future potential archaeological investigations within the PAPE (Section 4.2).

2.0 BACKGROUND AND RESEARCH DESIGN

2.1 Summary of Previous Phase IA Archaeological Survey

EDR previously prepared the *Phase IA Archaeological Survey Report* with Phase IB survey recommendations and a proposed Phase IB archaeological survey methodology (EDR 2020) which was submitted to NYSHPO via the CRIS website in August 2020. Addenda include *the Phase IA Archaeological Survey Report - Victory Avenue Segment* (EDR 2021a) and *Phase IA Archaeological Survey Report - Onshore Interconnection Cable* (EDR 2021b). The purpose of these Phase IA archaeological surveys was to determine whether previously identified terrestrial archaeological resources were located in the PAPE, and to evaluate the potential for previously unidentified terrestrial archaeological resources to be located within the PAPE. The combined Phase IA Archaeological Reconnaissance and Desktop Assessment Results are illustrated in Figure 2.2-1. The results of each individual Phase IA survey are summarized below (see Sections 2.1.1- 2.1.3), indicating the presence of multiple Native American archaeological sites and historically map-documented structures (MDS) both within and near the PAPE.

2.1.1 Phase IA Archaeological Survey (EDR 2020)

The *Phase IA Archaeological Survey* (EDR 2020) included a review of NYSHPO's online Cultural Resource Information System (CRIS) database and NPS records to determine if previous archaeological surveys had been conducted within, or within 0.25 mi (0.4 km) of, the PAPE and Landfall/ICW Study Area. Relative to the potential for archaeological sites to be located in the PAPE, the results of the *Phase IA Archaeological Survey* can be summarized as follows:

- Eight previously recorded archaeological sites with Native American components are located within 0.25 mi (0.4 km) of the Onshore Facilities. These sites consist of a village, a burial, and lithic scatters. [REDACTED]
- Due to the presence of several previously identified Native American archaeological sites within and/or near the Onshore Facilities, as well as the Onshore Facilities' proximity to the coast and freshwater streams, the PAPE should be considered to have an elevated sensitivity for the presence of Native American archaeological resources--in the absence of historic-period and modern ground disturbance. [REDACTED]
- Six previously recorded archaeological sites with historic-period components are located within 0.25 mi (0.4 km) of the Onshore Facilities. These sites, all of which are associated with former structures (i.e., houses, tavern/store, mill, church, and coast guard station), consist of domestic and/or architectural artifact scatters/remains. [REDACTED]

- Due to the presence of previously identified historic-period archaeological sites near the Onshore Facilities and the significant amount of MDSs along the Onshore Transmission Cable and Onshore Interconnection Cable, in the absence of modern ground disturbance, the PAPE should be considered to have an elevated sensitivity for the presence of historic-period archaeological resources.
- An archaeological reconnaissance and desktop assessment of the Onshore Facilities was conducted to determine the extent of previous disturbance within the PAPE. This reconnaissance and desktop assessment found that the large majority of the PAPE, including the entirety of the Union Avenue South Site, Landfall Work Area, and ICW Work Area, has been previously disturbed by road construction and maintenance, modified/made land associated with road cuts and berms, grading, paving, drainage ditches, buried utilities, rail lines, sidewalks, noise walls, and excavations for groundwater recharge basins.
- The archaeological reconnaissance and desktop assessment identified portions of the PAPE for the Onshore Transmission Cable, Onshore Transmission Cable variations, Union Avenue North Site, and Onshore Interconnection Cable which are potentially undisturbed, as they are located on undeveloped, or lightly developed, terrain.

2.1.2 Phase IA Archaeological Survey – Victory Avenue Segment (EDR 2021a)

The *Phase IA Archaeological Survey – Victory Avenue Segment* (EDR 2021a) also includes a review of NYSHPO's online Cultural Resource Information System (CRIS) database and NPS records to determine if previous archaeological surveys had been conducted within, or within 0.25 mi (0.4 km) of, the PAPE. Relative to the potential for archaeological sites to be located in the PAPE, the results of the *Phase IA Archaeological Survey – Victory Avenue Segment* can be summarized as follows:

- No previously identified cultural resources are located in the PAPE for the Victory Avenue Segment.
- Four previously recorded archaeological sites with Native American components are located within 0.25 mi (0.4 km) of the Victory Avenue Segment. These sites consist of undated lithic scatters (or presumable lithic scatters due to a lack of information).
- Due to the presence of several previously identified Native American archaeological sites within and/or near the Victory Avenue Segment PAPE, as well as the PAPE's proximity to the Carmans River, in the absence of historic-period and modern ground disturbance, the PAPE should be considered to have an elevated sensitivity for the presence of Native American archaeological resources.
- Five previously recorded archaeological sites with historic-period components are located within 0.25 mi (0.4 km) of the Victory Avenue Segment. These sites, almost all of which are associated with former structures (i.e., houses, tavern/store, mill, and church), consist of domestic and/or architectural artifact scatters/remains. [REDACTED]
- Due to the presence of previously identified historic-period archaeological sites and MDSs near the Victory Avenue Segment PAPE, in the absence of modern ground disturbance, the PAPE should be considered to have an elevated sensitivity for the presence of historic-period archaeological resources.
- An archaeological reconnaissance and desktop assessment of the Victory Avenue Segment was conducted to determine the extent of previous disturbance within the PAPE. This reconnaissance and desktop assessment found that the large majority of the PAPE has been previously disturbed by road

construction and maintenance, modified/made land associated with road cuts and berms, grading, paving, buried utilities, sidewalks, landscaping, and excavations for a groundwater recharge basin.

- The archaeological reconnaissance and desktop assessment identified portions of the Victory Avenue Segment PAPE which are potentially undisturbed, as they are located on undeveloped, or lightly developed, terrain.

2.1.3 Phase IA Archaeological Survey – Onshore Interconnection Cable (EDR 2021b)

The *Phase IA Archaeological Survey – Onshore Interconnection Cable* (EDR 2021b) also includes a review of NYSHPO's online Cultural Resource Information System (CRIS) database and NPS records to determine if previous archaeological surveys had been conducted within, or within 0.25 mi (0.4 km) of, the PAPE. Relative to the potential for archaeological sites to be located in the PAPE, the results of the *Phase IA Archaeological Survey – Onshore Interconnection Cable* can be summarized as follows:

- No previously recorded archaeological sites are located within 0.25 mi (0.4 km) of the Onshore Interconnection Cable.
- Based on a lack of nearby previously identified sites, distance from the coast, and apparent lack of a nearby freshwater source, in the absence of historic-period and modern ground disturbance, the PAPE should be considered to have a relatively low sensitivity for the presence of Native American archaeological resources.
- Due to the presence of relatively few MDSs in the vicinity, in the absence of modern ground disturbance, the PAPE should be considered to have a relatively low sensitivity for the presence of historic-period archaeological resources.
- A desktop assessment of the Onshore Interconnection Cable was conducted to determine the extent of previous disturbance within the PAPE. This desktop assessment found that approximately half of the PAPE has been previously disturbed by modified/made land associated with a New York Power Authority generation facility, the LIE, substations, and a groundwater recharge basin, as well as roadways, access roads, grading, paving, buried and overhead utilities, and sidewalks.
- The desktop assessment identified portions of the Onshore Interconnection Cable PAPE which are potentially undisturbed, as they are located on undeveloped, or lightly developed, terrain.

The combined Previous Archaeological Surveys and Previously Identified Archaeological Resources are included in Figure 2.2-2. In total, the three Phase IA reports identified the following sites and surveys within the PAPE:

- One previously recorded Native American archaeological site (NYSM 4897) within the Preferred Route PAPE. Little information is known or recorded about this site in the CRIS database. It is depicted as an area of elevated archaeological sensitivity and should not be considered equivalent to a formally tested and delineated archaeological site.

- One previously recorded historic-period site (USN 10302.001130) located immediately adjacent to the Preferred Route PAPE. The site formerly encompassed a relatively small area adjacent to the PAPE but has since been destroyed by the construction of the Sunrise Highway.
- Seven cultural resource reports address areas which overlap with portions of the PAPE. According to the CRIS database, five previous surveys overlap with portions of the PAPE while another two archaeological management plans were conducted on the Fire Island National Seashore near the landfall. Only two of the surveys conducted archaeological testing (i.e., shovel testing), both within a small portion of the Onshore Interconnection Cable corridor south of the LIE (Figure 2.2-2).

2.2 Phase IB Archaeological Survey Research Design

EDR recommended that archaeological testing only be conducted within those portions of the PAPE that had been identified as potentially undisturbed and had not been submitted to shovel testing by previous archaeological surveys. Please note that the Onshore Facility designs may be revised based on site selection and final design (including Laydown Yards); as such, further Phase IB archaeological survey fieldwork may be conducted pending further development of the Onshore Facility designs and revisions to the PAPE, in accordance with the methodology described in the Phase IA archaeological survey report.

2.2.1 *Archaeological Sensitivity Assessment*

As discussed in Section 2.1 above, the results of the Phase IA archaeological surveys indicate the presence of several previously identified Native American archaeological sites within and/or near the Onshore Facilities, as well as the Onshore Facilities' proximity to the coast and freshwater streams (EDR 2020, 2021a, 2021b; see Figure 2.2-2). As a result, the PAPE should be considered to have an elevated sensitivity for the presence of Native American archaeological resources--in the absence of historic-period and modern ground disturbance. As stated in Section 2.1.1 above, this sensitivity is particularly noted across the eastern portion of the PAPE, between the Landfall Work Area and Yaphank Avenue, due to its proximity to the coast, freshwater streams, and previously identified Native American sites. Due to the presence of previously identified historic-period archaeological sites near the Onshore Facilities and the significant amount of MDSs along the Onshore Transmission Cable and Onshore Interconnection Cable, the PAPE should be considered to have an elevated sensitivity for the presence of historic-period archaeological resources in the absence of modern ground disturbance (see Figure 2.2-2).

2.2.2 *Prior Ground Disturbance*

As discussed in Section 2.1 above, the results of the Phase IA archaeological surveys indicate that the large majority of the PAPE has been previously disturbed. The *NYAC Standards* (NYAC 1994) indicate that Phase I archaeological survey is not necessary in delineated wetlands, inundated terrain, previously disturbed areas, and areas where slopes exceed 12 to 15 percent. Slope is not a significant factor in the archaeological sensitivity of the PAPE as the Onshore Facilities are predominately located across flat to gently sloping terrain.

Based on the results of the Phase IA archaeological surveys, it is the opinion of EDR that the majority of the PAPE does not warrant archaeological testing due to prior ground disturbance. However, portions of the PAPE for the Onshore Transmission Cable and Onshore Interconnection Cable are located on potentially undisturbed

terrain. In order to identify any archaeological sites that could be disturbed by Onshore Facility-related construction, Phase IB archaeological survey was proposed only in those areas which were identified as potentially undisturbed (see Figure 2.2-1).

3.0 PHASE IB ARCHAEOLOGICAL SURVEY

3.1 Phase IB Archaeological Survey Fieldwork Organization and Methods

Phase IB archaeological survey fieldwork was organized and conducted according to the recommendations outlined in the *Phase IA Archaeological Survey* report and subsequent addenda (EDR 2020, 2021a, 2021b). Because the Onshore Transmission Cable is proposed to be buried underneath active and public roadways, archaeological testing was conducted within unpaved portions of the road rights-of-way along shoulder areas adjacent to the pavement, as removing the pavement to conduct archaeological testing prior to construction is not feasible given the expenses and logistical arrangements that would be required (e.g., the need for re-routing traffic and potentially emergency vehicles). Phase IB archaeological survey was comprised of shovel testing as no portions of the PAPE were suitable for pedestrian surface survey. The excavation of shovel tests (STPs) was only proposed for those areas identified during the archaeological reconnaissance and desktop assessment as potentially undisturbed. These areas do not include wetlands, inundated terrain, or slopes in excess of 12 to 15 percent slope, as these areas are not required under the *NYAC Standards* (NYAC 1994). No Phase IB archaeological survey was recommended for those portions of the PAPE that overlap with Phase IB archaeological testing conducted for prior surveys (see Figure 2.2-2).

For the purposes of organization, survey areas were given an alphanumeric designation where each street was assigned a letter or letters, and each consecutive survey area along that street was numbered sequentially beginning from "1" (e.g., Survey Area A1, A2, B1, B2, etc.). Survey areas along the Onshore Interconnection Cable route were designated as "North Interconnect" or "South Interconnect (both East and West)" and numbered sequentially (e.g., Survey Area NI01, NI02, SI-E, SI-W, etc.) based on their location either north or south of the Long Island Expressway or on NYPA/NatGrid parcels. Phase IB survey areas identified as potentially undisturbed within the PAPE were classified as either "Linear" or "Block." Portions of the PAPE classified as "Linear" consist of narrow (50 ft [15 m] or less) areas while portions of the PAPE classified as "Block" consist of wider (more than 50 ft [15 m]) and/or irregular areas. "Linear" areas were surveyed via a single transect of STPs spaced every 50 ft (15 m) while "Block" areas were surveyed via a grid of STPs at 50-ft (15-m) intervals, or 16 STPs per acre. [REDACTED]

[REDACTED]. Per U.S. Fish & Wildlife Service (USFWS) standards, STPs within Survey Area F were excavated at a 26.2 ft (8.0 m) staggered interval, or approximately 32 STPs per acre, and were 1.6 by 1.6 ft (0.5 by 0.5 m) in size (USFWS 2020). Photographs of the PAPE and Phase IB survey areas are included in Appendix B.

Each STP was identified with standard provenience information consisting of a survey area designation followed by a period and sequential shovel test number (e.g., STP A1.01, A1.02, etc.). STPs were typically 12-20 inches (in) (30-50 cm) in diameter and excavated to sterile subsoil or the practical limits of hand excavation (per the *NYAC Standards*). Field notes for each STP were recorded on standardized digital forms that described soil stratigraphy, recorded whether any artifacts were recovered, and noted any other relevant observations. All soils excavated from STPs were screened through 0.25-inch hardware cloth. Stratigraphic profiles, including depth, soil color, and texture for all STPs are tabulated in Appendix C.

The presence of clearly modern materials such as plastic fragments, modern bottle glass fragments, twenty-first-century architectural materials, and other assorted refuse in roadside STPs was noted on digital field forms but not collected for subsequent analysis. Any potentially significant artifacts recovered from STPs were placed in plastic bags labeled with standard Project and provenience information. Following completion of the archaeological fieldwork, all recovered materials were washed, identified, inventoried, and re-bagged in labeled clean 4-mil archival quality plastic bags. All artifacts recovered were identified and described based on material type and standard descriptive characteristics and included in an artifact inventory (see Appendix D).

3.2 Phase IB Archaeological Survey Fieldwork Results

EDR conducted Phase IB archaeological survey fieldwork for the project across multiple mobilizations between November 2020 and May 2022. Fieldwork was supervised by a combination of Joseph Kwiatek, Matthew Weiss, and Moira Magni, who were assisted by a crew of up to seven archaeological field technicians throughout the process. EDR personnel excavated a total of 1,470 STPs across 67 survey areas throughout all mobilizations, covering a total of 39,036 ft (11,898 m) of Linear PAPE and 40.05 acres (16.21 ha) of Block PAPE (see Figure 3.2-1).

Phase IB survey was conducted in accessible, potentially undisturbed areas of the PAPE along the proposed Onshore Transmission Cable Preferred Route and the proposed corridor options for the Onshore Interconnection Cable that Sunrise Wind plans to utilize during construction/installation of the Onshore Facilities. Some areas along the Preferred Route which were identified as potentially undisturbed during the Phase IA surveys are not planned to be utilized for Onshore Facilities activities resulting in ground disturbance (specifically, many areas along William Floyd Parkway where workspaces are anticipated to be largely confined to the disturbed highway median). Sunrise Wind requested EDR to exclude these areas from the Phase IB survey at this time (see Figure 3.2-1). If future refinement to the Onshore Facilities design results in the citing of workspaces or Project facilities on potentially undisturbed portions of the PAPE that have not been subjected to Phase IB survey, those areas will be subjected to Phase IB survey following the same methodology outlined in this report.

Similarly, since the Phase IB archaeological survey fieldwork described in this report occurred concurrent with the Project design process, only portions of Off-Route Variations along Ashley Place, Montauk Highway, and Yaphank Avenue were subjected to Phase IB survey before those areas were eliminated from the PAPE along the Preferred Route. Table 3.2-1 summarizes the Phase IB survey areas by Onshore Facility and Street/Area and includes approximate Linear and Block PAPE totals, STPs excavated, and the Figure 3.2-1 map sheets depicting each area. Tabulated STP data is included as Appendix C.

Table 2.2.2-1. Summary of Phase IB Fieldwork for Onshore Facilities.

Phase IB Survey Area by Street	Linear Feet (Meters)	Block Acres (Hectares)	STP Total	Figure 3.2-1 (Sheet #/#s)
Onshore Transmission Cable	39,036 (11,898)	3.92 (1.59)	863	1-35
Preferred Route	37,820 (11,528)	1.09 (0.44)	722	1-35
<i>William Floyd Parkway</i>	4,508 (1,374)	-	88	1-5

Phase IB Terrestrial Archaeological Resources Assessment
Sunrise Wind Onshore Facilities

Phase IB Survey Area by Street	Linear Feet (Meters)	Block Acres (Hectares)	STP Total	Figure 3.2-1 (Sheet #/s)
WF01	200 (61)	-	4	5
WF02	628 (191)	-	13	4
WF03	300 (91)	-	7	4
WF04	1,186 (361)	-	23	4
WF05	105 (32)	-	2	3
WF06	274 (84)	-	5	2
WF07	578 (176)	-	12	2
WF08	366 (112)	-	8	1
WF09	871 (265)	-	14	4
<i>Surrey Circle</i>	<i>546 (166)</i>	-	<i>11</i>	<i>5-6</i>
SC01	546 (166)	-	11	5-6
<i>Mastic Boulevard West</i>	<i>1,058 (322)</i>	-	<i>20</i>	<i>6</i>
MB01	1,058 (322)	-	20	6
<i>Francine Place</i>	<i>342 (104)</i>	-	<i>7</i>	<i>6</i>
FP01	342 (104)	-	7	6
<i>Revalo Avenue</i>	<i>1,632 (497)</i>	-	<i>32</i>	<i>6-7</i>
I01	370 (113)	-	7	7
I02	797 (243)	-	16	6-7
I03	465 (142)	-	9	6-7
<i>Victory Avenue</i>	<i>6,694 (2,040)</i>	<i>0.27 (0.11)</i>	<i>135</i>	<i>7, 9-14</i>
H01	-	0.27 (0.11)	8	11
H02	226 (69)	-	5	11
H03	546 (166)	-	11	11-12
H04	325 (99)	-	7	11-12
H05	1,305 (398)	-	21	12-13
H06	694 (212)	-	14	12-13
H07	663 (202)	-	13	14
H08	827 (252)	-	16	13-14

Phase IB Terrestrial Archaeological Resources Assessment
Sunrise Wind Onshore Facilities

Phase IB Survey Area by Street	Linear Feet (Meters)	Block Acres (Hectares)	STP Total	Figure 3.2-1 (Sheet #/s)
H09	1,671 (509)	-	31	7
H10	162 (49)	-	3	9-10
H11	275 (84)	-	6	12
<i>Horseblock Road</i>	6,639 (2,024)	-	117	14-21
C1	1,254 (382)	-	24	15-16
C2	1,124 (343)	-	17	21
C3	255 (78)	-	5	19
C4	518 (158)	-	10	16-17
C5	450 (137)	-	8	18
C6	2,154 (657)	-	40	17-18
C7	646 (197)	-	8	20
C8	150 (46)	-	3	14-15
Gr01	88 (27)	-	2	18
<i>Manor Road</i>	913 (278)	0.21 (0.08)	22	21-22
Mn01	405 (123)	-	8	21-22
Mn02	-	0.21 (0.08)	4	21-22
Mn03	508 (155)	-	10	21-22
<i>North Horseblock Road /</i>	1,334 (407)	-	24	22-23
HB01	1,334 (407)	-	24	22-23
<i>LIE Service Road/Express Drive South</i>	9,610 (2,927)	-	172	24-31
A1	621 (189)	-	10	30-31
A2	513 (156)	-	10	27
A3	467 (142)	-	9	26
A4	729 (222)	-	13	25
A5	957 (292)	-	16	24
A6	720 (219)	-	14	27-28
A7	1,806 (550)	-	32	30-31
A8	3,314 (1,010)	-	58	28-30

Phase IB Terrestrial Archaeological Resources Assessment
Sunrise Wind Onshore Facilities

Phase IB Survey Area by Street	Linear Feet (Meters)	Block Acres (Hectares)	STP Total	Figure 3.2-1 (Sheet #/s)
A9	483 (147)	-	10	25-26
<i>Waverly Avenue</i>	976 (297)	-	19	31-33
W01	976 (297)	-	19	31-33
<i>Long Island Avenue</i>	3,568 (1087)	0.61 (0.25)	75	21-22, 32-35
LI01	559 (170)	0.61 (0.25)	22	21-22
E1	611 (186)	-	12	34-35
E2	631 (192)	-	11	34
E3	1,229 (375)	-	20	32-33
E4	538 (164)	-	10	32-33
Off-Route Variations	1,216 (371)	2.83 (1.15)	141	8-11, 15
<i>Ashley Place</i>	110 (34)	-	2	8
D1	110 (34)	-	2	8
<i>Montauk Highway</i>	557 (170)	2.56 (1.04)	124	8-11
F	-	2.29 (0.93)	105	9-10
G1	-	0.27 (0.11)	8	10-11
G2	557 (170)	-	11	8
<i>Yaphank Avenue</i>	549 (167)	0.27 (0.11)	15	15
B1	-	0.27 (0.11)	4	15
B2	549 (167)	-	11	15
Onshore Interconnection Cable	-	36.13 (14.62)	607	34-39
<i>North Interconnect</i>	-	18.66 (7.55)	330	38-39
NI01	-	3.22 (1.30)	56	38-39
NI02	-	5.82 (2.35)	101	38-39
NI03	-	2.03 (0.82)	41	38
NI04	-	1.81 (0.73)	34	38-39
NI05	-	5.78 (2.34)	98	38-39
<i>South Interconnect - West</i>	-	8.13 (3.29)	128	37
SI-W	-	8.13 (3.29)	128	37

Phase IB Survey Area by Street	Linear Feet (Meters)	Block Acres (Hectares)	STP Total	Figure 3.2-1 (Sheet #s)
<i>South Interconnect - East</i>	-	9.34 (3.78)	149	34-36
SI-E	-	9.34 (3.78)	149	34-36
Phase IB Survey Total	39,036 (11,898)	40.05 (16.21)	1,470	1-39

EDR collected zero historic-period artifacts and 52 Native American artifacts from STPs during the Phase IB fieldwork (Appendix D). All of the Native American artifacts came from site EDR-SRW-001 [REDACTED] (discussed in greater detail in Sections 3.2.3.2 and 3.3.1, below). The following Subsections (3.2.1 through 3.2.5) describe the Phase IB archaeological survey conducted within the PAPE for each of the Onshore Facilities and the Landfall/ICW Work Areas in greater detail, organized geographically from Landfall to the Interconnection Area.

3.2.1 Landfall and ICW Work Areas

The entirety of the PAPE for both the Landfall and ICW Work Areas on Fire Island and Long Island was found to be previously disturbed (see Section 2.1.1, above and Figure 2.2-1). As such these areas were not included in the Phase IB archaeological survey.

3.2.2 Onshore Transmission Cable – LIE Service Road – Preferred Route

Results of the Phase IB archaeological survey for the 17.0-mi-long (27.4-km-long) Onshore Transmission Cable – LIE Service Road – Preferred Route are discussed geographically by roadway, from landfall to the Interconnection area, in Section 3.2.2.1 through 3.2.2.10, below.

3.2.2.1 William Floyd Parkway

General Area Description: Survey areas along William Floyd Parkway were generally located on relatively flat, manicured grass lawns and road shoulders adjacent to paved sidewalks. The survey areas were all categorized as Linear, totaling 4,508 ft (1,374 m) of PAPE. The survey areas were located on both sides of William Floyd Parkway between the Smith Point Marina Parking Lot’s East Concourse Drive and Surrey Circle. No archaeological sites were identified.

Figure 3.2-1: Sheets 1-5

Survey Area WF08 was located on the west side of William Floyd Parkway between the East Concourse Drive and Trafalgar Drive. The area between East Concourse Drive and Lombardy Drive was a thin strip of cut grass between concrete sidewalk and overgrown scrub brush or a residential yard fence (Appendix B, Photograph 1), while the area between Lombardy Drive and Trafalgar Drive fell in a grass residential lawn. Six STPs

excavated in the area encountered disturbed topsoil overlying subsoil horizons (Appendix C). Soils were sandy, with rounded and subrounded gravels present, with particle size increasing with depth. Caution tape overlying buried electrical utilities was encountered in three of the eight STPs, indicating prior disturbance. One STP encountered banded sandy Fill soils from 1.7-3.28 ft (0.53-1.0 m) below ground surface (bgs).

Survey Areas WF06 and WF07 were located on the east side of William Floyd Parkway between Brushwood Drive and Havenwood Drive East. These areas were generally thin strips of cut grass between concrete sidewalk and overgrown scrub brush (Appendix B, Photograph 2). The northern portion of WF06 was excluded from testing as the area fell within a newly paved and graveled access to a construction site (see Figure 3.2-1). Seventeen STPs were excavated across both areas, which generally encountered a thin landscape A horizon over compacted banded Fills containing asphalt and modern bottle glass, capping compacted yet intact natural sandy subsoil (Appendix C). STP WF06.05 can be considered typical of both survey areas. It contained a dark grayish brown (10YR 4/2) sandy loam landscape A horizon extending to 0.39 ft (0.12 m) bgs overlying a light brownish gray (10YR 6/2) fine to medium sand Fill with metal fragments, aluminum, asphalt, and plastic refuse that extended to 2.40 ft (0.73 m) bgs. This Fill capped a seemingly intact dark yellowish brown (10YR 4/6) sand B1 horizon which extended to 2.79 ft (0.85m) bgs above a yellowish brown (10YR 5/6) sand B2 horizon which was excavated to 3.28 ft (1.0 m) bgs. A photograph of STP WF07.12 exhibits a similar profile, with compacted Fill capping intact subsoil (Appendix B, Photograph 3).

Survey Area WF05 was located on the east side of William Floyd Parkway north of Coraci Boulevard. This area was a thin strip of manicured lawn between concrete sidewalk and deciduous trees and scrub brush behind a chain-link fence (Appendix B, Photograph 4). Two STPs were excavated in this area, with soils similar to those encountered in WF06 and WF07, described above.

Survey Area WF03 was located on the east side of William Floyd Parkway between Fleet Road and Linden Avenue. This area was an overgrown, brush covered flat with a guardrail and paved sidewalk to the west and a shallow wooded slope with deciduous trees and brush to the east (Appendix B, Photograph 5). Seven STPs were excavated in this area. STPs WF03.01 through WF03.04 encountered compacted Fill horizons with asphalt and modern trash, while STPs WF03.05 and WF03.06 were free of asphalt and trash but still highly compacted. STP WF03.07 encountered seemingly intact soils beneath a Fill horizon cap, with a very dark brown (10YR 2/2) sandy loam buried A horizon from 0.98-1.38 ft (0.30-0.42 m) bgs overlying consecutive sandy subsoil horizons excavated to 3.28 ft (1.0 m) bgs with particle size increasing with depth (Appendix C).

Survey Area WF 09 was located on the west side of William Floyd Parkway between Flintlock Drive and Stuart Road. The area alternated between wooded lots with scrub brush and leaf litter ground cover, and manicured residential and/or commercial lawns adjacent to the sidewalk (Appendix B, Photograph 66). Fourteen STPs were excavated in this area. STPs encountered either compact, mixed Fill or seemingly intact A horizons overlying consecutive sandy subsoil horizons excavated to 3.28 ft (1.0 m) bgs (Appendix C).

Survey Area WF02 was located on the east side of William Floyd Parkway between Linden Avenue and Stuart Drive. This area was a manicured grass flat between paved sidewalk and sparse woodland. Soils encountered in this area were largely intact, with some shallow surface disturbance similar to STP WF03.07 described above (Appendix C).

Survey Area WF04 was located on the west side of William Floyd Parkway between Stuart Road and Essex Circle. The southern half of WF04 between Stuart Road and Tudor Road West was mostly comprised of manicured residential yards near landscaped beds and decorative plantings, while the northern half of the survey area was a slightly sloping cut grass roadside between a paved sidewalk and a deciduous tree and underbrush hedgerow (Appendix B, Photographs 6 and 7). Twenty-three STPs were excavated throughout the area, which generally encountered disturbed surface soils with modern refuse overlying sterile, intact sandy subsoils. STP WF04.11 can be considered typical of the survey area. It contained a dark grayish brown (10YR 4/2) sandy loam Fill horizon with modern refuse extending to 0.75 ft (0.23 m) bgs overlying a dark yellowish brown (10YR 4/6) sandy loam B1 horizon that extended to 1.87 ft (0.57 m) bgs. The B1 horizon overlaid a yellowish brown (10YR 5/4) loamy sand B2 horizon which extended to 2.76 ft (0.84 m) bgs above a pale brown (10YR 6/3) coarse sand and cobbles C horizon which was excavated to 3.28 ft (1.0 m) bgs (Appendix C).

Survey Area WF01 was located on the east side of William Floyd Parkway between Tudor Road and Essex Circle. The area was a cut grass roadside adjacent to a paved sidewalk, extending into a sparse deciduous wooded lot with leaf litter ground cover (Appendix B, Photograph 8). Four STPs were excavated along the eastern wooded edge of the survey area. The STPs uncovered generally intact soils consisting of a thin, sandy loam A/Au horizon, overlying rocky sand subsoil B horizons. Incipient E horizons were noted forming at the base of the A/AO (Appendix C).

3.2.2.2 Surrey Circle

General Area Description: Survey Area SC01 along Surrey Circle was generally located within mixed tree forested lots with heavy leaf litter ground cover. The survey area was categorized as Linear, totaling 546 ft (166 m) of PAPE. The survey area was located on the west/southwest side of Surrey Circle between William Floyd Parkway and Northern Boulevard. No archaeological sites were identified.

Figure 3.2-1: Sheets 5-6

Survey Area SC01 encompassed a cut grass roadside marked with multiple below ground utility disturbances and extended into a seemingly undisturbed mixed forest lot on the west side of Surrey Circle (Appendix B, Photograph 9). Eleven STPs were excavated along the western wooded side of the survey area. The STPs uncovered generally intact soils with minor surface disturbance including mixing with modern trash. STP SC01.04 can be considered typical of the survey area. It contained a dark grayish brown (10YR 4/2) sandy loam A horizon with modern refuse extending to 0.79 ft (0.24 m) bgs overlying a yellowish brown (10YR 5/6) loamy sand B1 horizon that extended to 1.97 ft (0.60 m) bgs. The B1 horizon overlaid a light brown (7.5YR 6/4) sand B2 horizon which extended to 2.46 ft (0.75 m) bgs above a pale brown (10YR 6/2) coarse sand and cobbles C horizon which was excavated to 2.79 ft (0.85 m) bgs (Appendix C).

3.2.2.3 Mastic Boulevard West and Francine Place

General Area Description: Survey areas along Mastic Boulevard West and Francine place were generally located on relatively flat, manicured grass lawns in a residential neighborhood setting. The survey areas were all categorized as Linear, totaling 1,058 ft (322 m) of PAPE. The survey areas were located on both sides of Mastic Boulevard West and Francine Place near the intersection of both roads. No archaeological sites were identified.

Figure 3.2-1: Sheet 6

Survey Area MB01 encompassed manicured grass yards fronting multiple residences along Mastic Boulevard West, interspersed with paved/graveled driveways, landscaped beds with decorative plantings, and multiple below ground utility disturbances including buried water mains, natural gas service, and telephone lines (Appendix B, Photograph 10). A total of 20 STPs were excavated, five on the north side of the road and 15 on the south side of the road, both beginning at the Francine Place intersection. The STPs within the survey area fell into two general categories: highly disturbed, heavily compacted banded Fills with asphalt and concrete fragments, and less disturbed, seemingly redeposited natural soils that were still highly compacted but lacked modern debris inclusions or soil mixing. This level of disturbance was attributed to the presence of multiple buried utility installations. The soil profile from STP MB01.10 can be considered typical of the less disturbed STPs in the area. It contained a dark grayish brown (10YR 4/2) sandy loam rocky Fill horizon with modern refuse extending to 0.95 ft (0.29 m) bgs overlying a yellowish brown (10YR 5/4) highly compact sand horizon that extended to 1.31 ft (0.40 m) bgs. That horizon overlaid another yellowish brown (10YR 5/6) highly compact sand horizon which extended to 2.46 ft (0.75 m) bgs above a light yellowish brown (10YR 6/4) compact coarse sand horizon which was excavated to 3.28 ft (1.0 m) bgs (Appendix C).

On the west side of Francine Place, Survey Area FP01 encompassed a manicured grass roadside adjacent to a backyard fence, with a buried gas line disturbance throughout the entire length (Appendix B, Photograph 11). On the east side of Francine Place, Survey Area FP01 encompassed manicured grass lawns which fronted two residential properties. A total of seven STPs were excavated, three on the west side of the road and four on the east side of the road. All seven STPs encountered highly disturbed, compact Fill horizon deposits.

3.2.2.4 Revilo Avenue

General Area Description: Survey areas along Revilo Avenue fell on a variety of locations, from grass covered residential yards to graded wooded lots. The survey areas were all categorized as Linear, totaling 1,632 ft (497 m) of PAPE. The survey areas were located both north and south of the Sunrise Highway corridor between Montauk Highway and Victory Avenue. No archaeological sites were identified.

Figure 3.2-1: Sheets 6-7

The majority of Survey Area I02 encompassed the fence enclosed, wooded periphery of a dug-out retention basin east of Revilo Avenue and south of a Sunrise Highway off ramp (Appendix B, Photograph 12). The

southern portion of Survey Area I02 extended onto a cut grass roadside marked with buried fiber optic cable and water main utilities. A total of 16 STPs were excavated across Survey Area I02, parallel to Revilo Avenue and surrounding the rim of the dug-out retention basin. STPs along the wooded rim of the retention basin typically encountered mixed Fills with modern trash throughout and compacted redeposited subsoils (Appendix C). This was attributed as likely re-deposit and grading activity associated with the excavation of the retention basin. The STPs excavated on the southern roadside portion of Survey Area I02 also encountered highly compacted soils with fragments of asphalt in the vicinity of the buried utilities.

Survey Area I03 encompassed the brush and grass covered roadside fronting and siding a series of residential properties on the west side of Revilo Avenue to the south of the Sunrise Highway corridor. Buried fiber optic cable, as well as phone lines were marked within the area. A total of nine STPs were excavated in this area, and they revealed highly variable soil profiles. Some of the STPs encountered mixed and compacted Fill horizons, while others revealed seemingly intact soil deposits beneath shallow surface disturbance. STP I03.09 is representative of a generally undisturbed soil profile in the area. It contained a dark grayish brown (10YR 4/2) sandy loam Fill horizon with modern refuse extending to 0.89 ft (0.27 m) bgs capping a brown (7.5YR 4/4) sandy loam subsoil horizon that extended to 2.20 ft (0.67 m) bgs. That horizon overlaid a dark yellowish brown (10YR 4/6) sandy loam subsoil horizon which extended to 3.28 ft (1.0 m) bgs (Appendix C).

North of the Sunrise Highway corridor, Survey Area I01 encompassed a generally flat, young growth wooded lot located with leaf litter ground cover at the top of a cut embankment for a Sunrise Highway exit ramp, east of Revilo Avenue (Appendix B, Photograph 13). A waist high chain link fence enclosed the area, and utility mark outs for a buried fiber optic cable were visible immediately adjacent to Revilo Avenue. A total of seven STPs were excavated, which generally revealed mixed or compacted soils with asphalt fragments capping truncated intact subsoils. The disturbance was likely the result of landscaping and grading for construction of the nearby exit ramp. STP I01.05 provides a representative soil profile for the area. It contained a dark grayish brown (10YR 4/2) loamy sand disturbed topsoil horizon with modern refuse extending to 1.44 ft (0.44 m) bgs capping a yellowish brown (10YR 5/4) moderately compact loamy sand subsoil horizon that extended to 2.53 ft (0.77 m) bgs. That horizon overlaid a brown (7.5YR 4/4) sand subsoil horizon which extended to 3.01 ft (0.94 m) underlain by a light brownish gray (10YR 6/2) loose sand C horizon with rounded pebbles excavated to 3.28 ft (1.0 m) bgs (Appendix C).

3.2.2.5 Victory Avenue

General Area Description: Survey areas along Victory Avenue fell on a variety of locations, including cut grass residential yards, low lying wooded areas adjacent to the Carmans River, forested areas cleared of undergrowth within Southaven Park, grass and gravel road shoulders, and slightly elevated wooded roadsides. The survey areas were all categorized as Linear, totaling 6,694 ft (2,040 m) of PAPE, with the exception of Block Survey Area H01 within Southaven Park totaling 0.27 ac (0.11 ha) of PAPE. The survey areas were located both north and south of Victory Avenue between Revilo Avenue and Horseblock Road. No archaeological sites were identified.

Figure 3.2-1: Sheets 7, 9-14

Survey Area H09 encompassed manicured grass yards fronting multiple residences along Victory Avenue between Revilo Avenue and River Road, interspersed with paved/graveled driveways, and landscaped beds with decorative plantings (Appendix B, Photograph 14). The western end of the Survey Area H09 extended into a sloping, graded grass covered area behind a guardrail near the entrance ramp to Sunrise Highway. Survey Area H09 had a distinct lack of buried utilities when compared to other residential areas of the PAPE. A total of 31 STPs were excavated in this area, and they revealed largely intact soil profiles. STP H09.09 can be used as a representative example soil profiles in the area. It contained a brown (10YR 4/3) sandy loam A/Ap horizon extending to 0.98 ft (0.30 m) bgs capping a strong brown (7.5YR 5/6) sandy loam Bw horizon that extended to 2.30 ft (0.70 m) bgs. That horizon overlaid a yellowish brown (10YR 5/4) loamy sand BC horizon that extended to 2.89 ft (0.88 m) bgs above a brown (7.5YR 4/4) loose sand and gravel C horizon excavated to 3.28 ft (1.0 m) bgs (Appendix C).

Survey Area H10 encompassed a low lying, marshy woodland on the eastern bank of the Carmans River, north of Victory Avenue and west of River Road. Moss, leaf litter, and exposed root mats covered the ground surface (Appendix B, Photograph 15). A total of three STPs were excavated in this area, and they revealed intact soil profiles with thick root mats and humic O horizons overlying sandy subsoils. Rounded pebbles and gravels were encountered throughout the profile increasing in size and frequency with depth (Appendix C). STPs began to inundate with groundwater post excavation (Appendix B, Photograph 16).

Survey Areas H01 and H02 encompasses low lying, marshy woodland within Southaven County Park, adjacent to a man-made lake and the west bank of the Carmans River. These Survey Areas represented the potentially undisturbed portions of a 50 ft (15.24 m) buffer surrounding the planned workspace for the proposed trenchless crossing of the Carmans River. Survey Area H01 was disturbed by a paved access road underlain by multiple metal and concrete culverts running north-south across the area. STPs were excavated to either side of the paved road and continued in the generally flat low-lying woodland of H02 south of the man-made lake (Appendix B, Photographs 17 and 18). A total of 13 STPs were excavated within these areas. STPs H01.01 through H01.03 revealed mixed Fill deposits with foam and plastic until excavation reached the water table, suggesting the paved access road is likely located on infilled land. Beneath a series of disturbed Fill horizons, STP H01.07 encountered an inundated, very dark brown (10YR 2/2) sand from 1.83-2.49 ft (0.56-0.76m), which was interpreted as a potentially buried natural wetland soil, further suggesting the area was infilled in the past (Appendix C).

Survey Areas H03 and H04 were located on relatively flat land both within the wooded South Haven County Park fence line and on the grass covered roadside north of Victory Avenue to the east and west of Gerard Road. Both areas were on the same general elevation as Victory Avenue and encountered similar soils, though STPs in H04 on the roadside encountered slightly deeper and more frequent surface disturbance near buried electric and fiber optic utilities. A total of 18 STPs were excavated across both areas. STP H04.02 can be used as a representative example of soil profiles in these areas. It contained a thin, very dark brown (10YR 2/2) loamy sand and gravel Fill horizon with modern refuse over a grayish brown (10YR 5/2) loamy sand Fill horizon with asphalt debris extending to 1.41 ft (0.43 m) bgs capping a dark grayish brown (10YR 4/2) loamy sand Ab horizon that extended to 1.97 ft (0.60 m) bgs. That horizon overlaid a yellowish brown (10YR 5/4) loamy sand Bw horizon that extended to 2.56 ft (0.78 m) bgs above a brown (7.5YR 4/4) loamy sand Bw horizon excavated to 3.28 ft (1.0 m) bgs (Appendix C).

Survey Area H11 was located on the north side of Victory Avenue to the east of Equestrian Way. The survey area was comprised of manicured grass yards fronting residential parcels, with buried water main and telephone line utilities (Appendix B, Photograph 19). A total of six STPs were excavated in this area, with soil profiles largely similar to those encountered in Survey Areas H04 and H03, described above.

Survey Area H05 was located on the north side of Victory Avenue between Equestrian Way and Strawberry Lane and encompassed both manicured residential yards and a grass covered roadside south of a large agricultural field (Appendix B, Photograph 20). Buried utilities including a water main, fiber optic cables, and telephone lines run throughout the survey area in parallel with Victory Avenue. Twenty-one STPs were excavated across the area, typically with surface disturbance capping intact subsoil. STP H05.13 exhibited a soil profile typical of the area. It contained a thin, dark grayish brown (10YR 4/2) loamy sand and gravel disturbed topsoil with modern refuse over a brown (10YR 4/3) loamy sand Fill horizon with asphalt debris and modern glass extending to 1.61 ft (0.49 m) bgs capping a yellowish brown (10YR 5/6) sand B horizon that extended to 2.76 ft (0.84 m) bgs. The B horizon overlaid a pale brown (10YR 6/3) oxidized coarse sand C horizon that was excavated to 3.28 ft (1.0 m) bgs (Appendix C).

Survey Area H06 was located on the south side of Victory Avenue in the vicinity of Strawberry Lane and encompassed wide grass and gravel covered road shoulder continuing into sparse woodland west of Strawberry Lane. Fourteen STPs were excavated across the area. STPs on the road shoulder east of Strawberry Lane revealed soil profiles similar to Survey Area H05. STPs west of Strawberry Lane were excavated in the wooded areas at a slightly higher elevation than the grass covered road shoulder, and revealed intact soil deposits (Appendix B, Photograph 21). STP H06.10 exhibited a soil profile typical of the area. It contained a dark grayish brown (10YR 4/2) sandy loam humic O/A horizon extending to 0.75 ft (0.23 m) bgs over a yellowish brown (10YR 5/4) sandy loam Bw extending to 2.69 ft (0.82 m) bgs. The first Bw horizon was capping a brown (7.5YR 5/4) loamy sand Bw horizon that extended to 3.15 ft (0.96 m) bgs. The second Bw horizon overlaid a light brownish gray (10YR 6/2) loose sand and gravel C horizon that was excavated to 3.28 ft (1.0 m) bgs (Appendix C).

Survey Area H08 was located on the south side of Victory Avenue between Forest Avenue and the exit ramp from the Sunrise Highway. It encompassed both wide, grass covered rural yards on the road shoulder and the same slightly elevated woodland as the western extent of Survey Area H06 (Appendix B, Photograph 22). Sixteen STPs were excavated across the area, with soil profiles resembling those from the wooded portion of Survey Area H06, described above (Appendix C).

Survey Area H07 was located on the north side of Victory Avenue east of the intersection with Horseblock Road. The eastern half of the survey area encompassed the edge of a wooded slope slightly elevated from Victory Avenue, while the western half fell on grass and gravel covered road shoulder at street level. Thirteen STPs were excavated across the area. Soil disturbance was pervasive on the western side of the area, with STP H07.13 encountering modern trash and asphalt to the limit of hand excavation at 3.28 ft (1.0 m) bgs. Soil disturbance in STPs in the eastern half of the survey area was more sporadic, though some STPs on the edge of the wooded area still encountered plastic trash at 3.28 ft (1.0 m) bgs. STP H07.04 revealed a seemingly intact soil profile, with disturbed topsoil overlying stacked, compacted Bw horizons before reaching loose C horizon sands at 2.89 ft (0.88 m) bgs (Appendix C).

3.2.2.6 Horseblock Road

General Area Description: Survey areas along Horseblock Road primarily consisted of wide, grass covered roadsides extending into mixed growth woodland. Disturbances likely associated with road construction, including heavy grading and push piles, were observed in some of the survey areas. The survey areas were all categorized as Linear, totaling 6,551 ft (407 m) of PAPE. The survey areas were located both north and south of Horseblock Road between Victory Avenue and Manor Road. No archaeological sites were identified.

Figure 3.2-1: Sheets 14-21

Survey Area C8 encompassed a relatively flat road shoulder covered in areas of cut grass and asphalt (Appendix B, Photograph 23). A total of three STPs were excavated in this area, and they revealed highly compacted soils with asphalt debris and modern trash throughout the profile (Appendix C).

Survey Areas C1 and C4 encompassed grass roadsides which extended into wooded lots on both sides of Horseblock Road between Woodside and Yaphank Avenues (Appendix B, Photograph 24). A total of 34 STPs were excavated across both areas. The majority of the STPs were excavated within the seemingly intact scrubby pine woodland. STPs generally encountered a moderately disturbed to natural topsoil overlying two or more intact, sandy subsoil horizons with rounded quartz glacial till. STP C1.15 exhibited a soil profile typical of both survey areas. It contained a dark brown (10YR 3/3) sandy loam Ao/A horizon with plastic in the upper half of the stratum extending to 0.92 ft (0.28 m) bgs over a dark yellowish brown (10YR 4/6) sandy loam B1 horizon extending to 1.64 ft (0.50 m) bgs. The B1 horizon was capping a dark yellowish brown (10YR 4/6) sand B2 horizon that extended to 2.53 ft (0.77 m) bgs. The B2 horizon overlaid a light yellowish brown (10YR 6/4) coarse sand and gravel C horizon that was excavated to 3.28 ft (1.0 m) bgs (Appendix C).

Survey Area C6 encompassed a grass roadside which extended into a scrubby pine and oak woodlot along the north side of Horseblock Road (Appendix B, Photograph 25). Small portions near the eastern and western ends of the survey area contained grading/push pile and road disturbance associated with abandoned mid-twentieth century residential subdivision development along this side of the road (since reforested). A spoil pile from this former development intersects the PAPE adjacent to STP C6.04. Horseblock Road lies at the natural grade for the majority of this survey area, although its western end is elevated on an artificial berm where it intersects Grucci Lane. Forty STPs were excavated across this survey area. STPs at the western end of the survey area adjacent to the road berm (from STP C6.06 westward) encountered moderate disturbance as a result of road construction and abandoned residential development and contained disturbed topsoil and upper subsoil horizons overlying intact subsoil. The majority of the survey area (from STP C6.07 eastward) was minimally disturbed with STPs encountering intact topsoil (sometimes fully or partially disturbed) overlying two or more intact subsoil horizons. STP C6.29 is representative of undisturbed soil profiles encountered in this area. It contained a very dark grayish brown (10YR 3/2) sandy loam topsoil extending to 0.52 ft (0.16 m) bgs over a dark yellowish brown (10YR 4/6) loamy sand B horizon extending to 2.00 ft (0.61 m) bgs. The first B horizon was capping a yellowish brown (10YR 5/4) sand B horizon that extended to 2.92 ft (0.89 m) bgs. The second B horizon overlaid a light yellowish brown (10YR 6/4) coarse sand C horizon that was excavated to 3.28 ft (1.0 m) bgs (Appendix C).

Survey Area Gr01 encompassed a wooded island between the northwest and southeast bound lanes of Horseblock Road to the east of Grucci Lane. The area was in a wooded depression below the road grade, with a partially dug out drainage channel leading to a concrete road culvert (Appendix B, Photograph 67). Two STPs were excavated within the area. The northern STP was excavated nearest the dug out drainage and encountered mixed Fill horizon soils to a depth exceeding 3.28 ft (1.0 m). The southern STP contained a modern refuse filled, redeposited A horizon overlying a series of intact, sterile subsoil horizons excavated to 3.61 ft (1.1 m) with particle size increasing with depth (Appendix C).

Survey Area C5 encompassed a wide road shoulder of mown grass along the north side of Horseblock Road with a scrubby oak woodlot extending beyond a picket fence (Appendix B, Photograph 26). This fence prevented access to the woodlot, limiting shovel testing to the grass road shoulder, which was located on an elevated, artificial road berm. The eastern end of this survey area was also disturbed by buried utilities. Despite its location on a road berm, eight shovel tests were excavated throughout this survey area to determine the potential for buried intact soils. STPs predominately contained heavily disturbed soils consisting of fills/redeposited topsoil and subsoil horizons with modern refuse and asphalt fragments. Most STPs were terminated at gravel and/or asphalt impasses. STP C5.01 exhibited the least amount of disturbance. It contained a grayish brown (10YR 5/2) sandy loam overburden/fill mixed with pale brown (10YR 6/3) sandy loam extending to 0.89 ft (0.27 m) bgs. This disturbance overlaid a dark yellowish brown (10YR 4/6) sandy loam intact B horizon extending to 2.62 ft (0.80 m) bgs overlying a light yellowish brown (10YR 6/4) loamy sand intact subsoil (Appendix C).

Survey Area C3 encompassed a wide road shoulder along the north side of Horseblock Road consisting of scrub brush and fallow grasses extending up to a woodlot (Appendix B, Photograph 27). Disturbance was noted throughout the survey area, which appeared to have been recently clear-cut and artificially flattened, consisting of buried utilities and a deep ditch along the roadside. Five STPs were placed along the woodlot edge in an attempt to encounter intact soils, but they revealed heavy disturbance throughout consisting of highly compacted redeposited topsoil and subsoil with modern refuse. STP C3.03 exhibited the least amount of disturbance. It contained a very dark grayish brown (10YR 3/2) sandy loam fill/redeposited topsoil extending to 0.62 ft (0.19 m) bgs overlying a dark yellowish brown (10YR 4/6) loamy sand fill/redeposited subsoil extending to 0.98 ft (0.30 m) bgs. This fill/redeposited subsoil overlaid a brown (10YR 4/3) loamy sand second fill/redeposited topsoil extending to 1.61 ft (0.49 m), which capped two intact subsoil horizons. The upper subsoil was a dark yellowish brown (10YR 4/6) coarse sand that extended to 2.46 ft (0.75 m) bgs. The lower subsoil was a light yellowish brown (10YR 6/4) coarse sand that extended to 3.28 ft (1.0 m) bgs (Appendix C).

Survey Area C7 was located on the southern side of Horseblock Road between Industrial Boulevard and Bellport Avenue. STP excavation of the southeastern half of the survey area revealed heavy disturbance including asphalt, modern refuse, and caution tape above unmarked buried utilities. The northwestern half of Survey Area C7 encompassed a manicured grass portion of lawn at the base of a slight rise to the south. This roadside portion of the lawn appeared to have been graded to match the road level (Appendix B, Photograph 28). STPs excavated in the lawn revealed a mix of disturbed and natural profiles, with generally mixed topsoil filled with modern refuse capping rocky and sandy subsoil (Appendix C).

Survey Area C2 encompassed mown grass road shoulders extending slightly into scrubby pine and oak woodland, thick with scrub brush, along both sides of Horseblock Road (Appendix B, Photographs 29 and 30).

The survey area was moderately disturbed by sidewalks, grading (push piles), driveways, and several utilities, which ran both parallel to and perpendicular from the road. Seventeen STPs were excavated across this survey area, which revealed soil profiles typically consisting of disturbed topsoil (and sometimes upper subsoil horizon) with modern refuse overlying two or more intact subsoil horizons. STP C2.11 exhibited a soil profile typical of the area. It consisted of a very dark grayish brown (10YR 3/2) loamy sand disturbed topsoil extending to 0.56 ft (0.17 m) bgs overlying a dark yellowish brown (10YR 4/6) sand B horizon extending to 2.13 ft (0.65 m) bgs. The upper B horizon overlaid a lower yellowish brown (10YR 5/4) sand B horizon extending to 2.62 ft (0.8 m) bgs which capped a light yellowish brown (10YR 6/4) sand C horizon with cobbles extending to 3.28 ft (1.0 m) bgs (Appendix C).

3.2.2.7 Manor Road

General Area Description: Survey Areas on the LILCO parcels west of Manor Road fell within coniferous tree lines used a screening vegetation surrounding an existing electrical substation. Survey Areas Mn01 and Mn03 were categorized as Linear, totaling 913 ft (278 m) of PAPE. Survey area Mn02 was categorized as Block, totaling 0.21 acres (0.08 ha) of PAPE. Upper soil horizons were disturbed and or compacted in most STP profiles, while underlying soils were intact in some areas. No archaeological sites were identified.

Figure 3.2-1: Sheets 21-22

Survey Area Mn01 encompassed a generally east to west oriented coniferous tree line separating the LILCO substation from the cleared LIRR corridor to the north (Appendix B, Photograph 68). The survey area was heavily disturbed, likely as a result of clearing for the LIRR corridor immediately to the north. Eight STPs were excavated across this survey area, which revealed highly compacted soil profiles with modern refuse overlying sterile subsoil horizons. STP Mn01.04 exhibited a soil profile typical of the area. It consisted of a very dark brown (10YR 2/2) sandy loam redeposited A horizon extending to 0.46 ft (0.14 m) bgs overlying a very compact gray (10YR 5/1) sand mixed E/Bw horizon extending to 0.92 ft (0.28 m) bgs. This E/Bw horizon was underlain by a very compact dark yellowish brown (10YR 4/4) sand disturbed soil horizon mottled with gray (10YR 5/1) sand and very dark brown (10YR 2/2) sandy loam extending to 1.61 ft (0.49 m) capping a very compact dark yellowish brown (10YR 4/4) sand (Appendix C).

Survey Area Mn02 encompassed a mixed growth stand of trees west of Manor Road and east of the LILCO substation between paved access driveways to the substation. STPs revealed modern refuse in disturbed topsoil, overlying mixed horizons similar to the STPs in Survey Area Mn01 (Appendix C).

Survey Area Mn03 encompassed another mixed growth stand of trees west of Manor Road as well as a coniferous tree line screening the southeastern corner of the LILCO substation facility from Manor Road and Horseblock Road. STPs revealed modern refuse and asphalt debris in disturbed topsoil, overlying mixed horizons capping seemingly intact sandy subsoils (Appendix C).

3.2.2.8 North Horseblock Road

General Area Description: Survey Area HB01 along North Horseblock Road fell within both manicured residential yards and within sparse deciduous forest with scrub brush and heavy leaf litter ground cover. The survey area was categorized as Linear, totaling 1,334 ft (407 m) of PAPE. The survey area was located both north and south of North Horseblock Road between Hagerman Avenue and Munsells Road. No archaeological sites were identified.

Figure 3.2-1: Sheets 22-23

On the north side of North Horseblock Road, Survey Area HB01 encompassed portions of manicured grass yards fronting two residences (Appendix B, Photograph 31). On the south side of North Horseblock Road, Survey Area HB01 encompassed two woodlot islands between North Horseblock Road and Long Island Avenue (Appendix B, Photograph 32). A buried natural gas pipeline cut across the survey area from the southwest to the northeast through the western woodlot island, and buried water and gas utilities were present within the eastern residential lawn. Twenty-four STPs were excavated within Survey Area HB01 which revealed generally intact soil profiles across the residential lawns and the majority of the wooded areas. STP HB01.17 can be used as a representative example of soil profiles in the area. It contained a dark grayish brown (10YR 4/2) sandy loam topsoil horizon extending to 0.98 ft (0.13 m) bgs capping a brown (10YR 5/3) sandy loam subsoil horizon that extended to 2.30 ft (0.29 m) bgs. That horizon overlaid a dark yellowish brown (10YR 4/4) sand horizon with rounded gravels and cobbles that extended to 2.89 ft (0.96 m) bgs above a light yellowish brown (10YR 6/4) sand and rounded gravel horizon excavated to 3.28 ft (1.0 m) bgs (Appendix C). Some portions of the woodlot islands encountered heavy compaction and banded Fill horizons, likely a result of heavy machinery disturbance during road construction (Appendix C).

3.2.2.9 LIE Service Road/Express Drive South

General Area Description: Survey areas along the LIE Service Road/Express Drive South were generally located on a mix of relatively flat, manicured grass lawns, scrub growth wooded lots, and grass and gravel road shoulders. The survey areas were all categorized as Linear, totaling 9,610 ft (2,927 m) of PAPE. The survey areas were located on both sides of the LIE Service Road/Express Drive South between Horseblock Road and Waverly Avenue. No archaeological sites were identified.

Figure 3.2-1: Sheets 24-31

Survey Areas A5 and A4 were located on the south side of the LIE Service Road/Express Drive South between the Horseblock Road and Victorian Lane. The areas encompassed mixed deciduous and pine woodland along the road edge on and adjacent to a road cut/berm (Appendix B, Photograph 33). The eastern end of Survey Area A4 was located within the fenced, wooded periphery of a dug-out retention basin. A total of 29 STPs were excavated across both areas, which encountered disturbed topsoil and upper subsoil horizons overlying intact lower subsoil horizons (Appendix C). STP A5.06 can be used as a representative example of soil profiles in the area. It contained a brown (10YR 4/3) loamy sand topsoil horizon with plastic and modern glass throughout extending to 1.05 ft (0.32 m) bgs capping a yellowish brown (10YR 5/4) mixed with a light brownish gray (10YR 6/2) sand horizon that extended to 1.71 ft (0.52 m) bgs. That horizon overlaid a dark yellowish brown (10YR

4/6) mixed with brown (10YR 4/3) and yellowish brown (10YR 5/4) sand horizon that extended to 2.82 ft (0.86 m) bgs above a yellowish brown (10YR 5/4) sand subsoil horizon excavated to 3.28 ft (1.0 m) bgs (Appendix C).

Survey Area A9 was located on the south side of the LIE Service Road/Express Drive South to the east of California Avenue. The area encompassed manicured grass roadside and residential lawns with multiple buried utilities (Appendix B, Photograph 34). A total of 10 STPs were excavated across the area, which encountered a mix of highly compacted and disturbed soils profiles ending in compaction or asphalt impasses and a few natural soil profiles (Appendix C). STP A9.06 can be used as a representative example of the few undisturbed soil profiles in the area. It contained a brown (10YR 4/3) sandy loam A/Ap horizon extending to 0.49 ft (0.15 m) bgs capping a dark yellowish brown (10YR 4/4) sandy loam Bw horizon that extended to 1.71 ft (0.52 m) bgs. The Bw horizon overlaid a yellowish brown (10YR 5/4) loamy sand BC horizon that extended to 2.82 ft (0.86 m) bgs above a brown (7.5YR 4/4) sand and gravel C horizon excavated to 3.28 ft (1.0 m) bgs (Appendix C).

Survey Area A3 was located on the north side of the LIE Service Road/Express Drive South to the northwest of the intersection with Medford Road. The area encompassed a slightly sloping, mowed grass roadside interspersed with small trees and bushes (Appendix B, Photograph 35). A total of nine STPs were excavated across the area, and all of them encountered heavy disturbance and compaction likely associated with road construction activities (Appendix C).

Survey Area A2 was located on the south side of the LIE Service Road/Express Drive South between Old Medford Avenue and North Ocean Avenue. The area encompassed a portion of a primarily deciduous woodlot south of grass covered roadside (Appendix B, Photograph 36). A total of 10 STPs were excavated across the area (all within the tree line), which encountered intact, very sandy soil profiles (Appendix C). STP A2.08 can be used as a representative example of soil profiles in the area. It contained a dark grayish brown (10YR 4/2) sandy loam horizon extending to 0.59 ft (0.18 m) bgs capping a brown (7.5YR 4/4) sandy loam horizon that extended to 1.28 ft (0.39 m) bgs. That horizon overlaid a brown (10YR 4/3) sandy loam horizon that extended to 2.95 ft (0.90 m) bgs above a pale brown (10YR 6/3) sand horizon excavated to 3.28 ft (1.0 m) bgs (Appendix C).

Survey Area A6 was located on the north side of the LIE Service Road/Express Drive South to the northwest of the intersection with North Ocean Avenue. The area encompassed flat mixed growth woodland, both mowed and unmowed grass, and scrub brush (Appendix B, Photograph 37). A total of 14 STPs were excavated across the area; each STP encountered widely variable soil profiles ranging from completely intact natural deposits to entirely disturbed deposits. In undisturbed horizons, sand particle size and rock content and size increased with depth (sometimes leading to impasses) and soil structure decreased with depth. Disturbed STPs near the center of the survey area often led to compactness impasses (Appendix C).

Survey Area A8 was located on the south side of the LIE Service Road/Express Drive South between Wildwood Circle and Blue Point Road. The area encompassed six blocks of cut grass roadside and manicured yards siding residential parcels (Appendix B, Photographs 38 and 39). Numerous driveways, landscaped beds with decorative plantings, and buried utilities were located within the survey area. STPs were placed to avoid these disturbances whenever possible. A total of 58 STPs were excavated across the area, which generally encountered soil profiles with disturbed topsoil horizons (with disturbance sometimes extending into upper subsoil), over intact, sand and gravel subsoils (Appendix C). STP A08.44 can be used as a representative

example of the soil profiles in the area. It contained a dark grayish brown (10YR 4/2) mixed with dark yellowish brown (10YR 4/4) loamy sand horizon extending to 0.69 ft (0.21 m) bgs capping a yellowish brown (10YR 5/6) mixed with dark yellowish brown (10YR 4/4) loamy sand horizon that extended to 1.74 ft (0.53 m) bgs. Both upper horizons revealed modern glass throughout. These horizons overlaid a yellowish brown (10YR 5/6) sand B horizon that extended to 2.89 ft (0.88 m) bgs above a light brownish gray (10YR 6/2) coarse sand C horizon excavated to 3.28 ft (1.0 m) bgs (Appendix C).

Survey Area A7 was located on the south side of the LIE Service Road/Express Drive South between Blue Point Road and Waverly Avenue. The area encompassed five blocks of manicured lawns and cut grass roadside siding residential parcels and a retention basin (Appendix B, Photographs 40 and 41). A paved sidewalk ran through part of the survey area in the vicinity of Gazebo Lane, and buried utilities were marked sporadically throughout the entire length of the survey area. A total of 32 STPs were excavated across the area, which generally encountered soil profiles with disturbed topsoil horizons (with disturbance sometimes extending into upper subsoil), over intact, sand and gravel subsoils (Appendix C). STP A07.21 can be used as a representative example of the soil profiles in the area. It contained a dark grayish brown (10YR 4/2) loamy sand landscape A/O horizon with modern trash throughout extending to 0.46 ft (0.14 m) bgs capping a dark yellowish brown (10YR 4/4) loamy sand Bw horizon that extended to 0.98 ft (0.30 m) bgs. The Bw horizon overlaid a yellowish brown (10YR 5/4) loamy sand Bw horizon with light brownish gray (10YR 6/2) mottles that extended to 2.49 ft (0.76 m) bgs above a yellowish brown (10YR 5/6) coarse sand and gravel C horizon excavated to 3.28 ft (1.0 m) bgs (Appendix C).

Survey Area A1 was located on the north side of the LIE Service Road/Express Drive South to the northeast of the intersection with Waverly Avenue. The area encompassed relatively flat mixed growth woodland with scrub brush (Appendix B, Photograph 42). A total of 10 STPs were excavated across the area, which generally encountered disturbed topsoil overlying intact subsoils. Soils were very sandy, and subsoils were very rocky, with rounded gravel content and size increasing with depth (Appendix C).

3.2.2.10 Waverly Avenue

General Area Description: Survey Area W01 along Waverly fell within manicured lawns fronting residential parcels. The survey area was categorized as Linear, totaling 976 ft (297 m) of PAPE. The survey area was located on the west side of Waverly Avenue between Haspel Lane and Union Avenue. No archaeological sites were identified.

Figure 3.2-1: Sheets 31-33

Survey Area W01 encompassed portions of manicured grass yards fronting multiple residences (Appendix B, Photograph 43). Paved or gravel driveways, landscape beds with decorative plantings, and buried gas and water utilities were present. A total of 19 STPs were excavated across the survey area. Most STPs encountered disturbed topsoil and subsoil horizons, while some STPs encountered modern trash and asphalt debris to the limit of hand excavation at 3.28 ft (1.0 m) bgs. Other STPs did encounter intact subsoil below the upper disturbed levels (Appendix C). STP W01.11 can be used as a representative example of soil profiles in

the area. It contained a dark grayish brown (10YR 4/2) sandy loam disturbed topsoil horizon dense with asphalt debris, plastic, and Styrofoam extending to 1.0580 ft (0.55 m) bgs capping a dark yellowish brown (10YR 4/6) loamy sand horizon excavated to 3.28 ft (1.0 m) bgs (Appendix C).

3.2.2.11 Long Island Avenue

General Area Description: Survey areas along Long Island Avenue were located on a mix of scrub growth wooded lots, manicured lawns fronting residential parcels, and cut grass roadsides. The survey areas categorized as Linear totaled 3,568 ft (1,087 m) of PAPE and those categorized as Block totaled 0.61 acres (0.25 ha) or PAPE. Survey Area LI01 was located on both sides of Long Island Avenue east of Horseblock Road, while Survey Areas E1-E4 were located on both sides of Long Island Avenue between Waverly Avenue and Claremont Avenue. No archaeological sites were identified.

Figure 3.2-1: Sheets 21-22, 32-35

On the north side of Long Island Avenue, east of Horseblock Road, Survey Area LI01 encompassed two wooded islands between Long Island Avenue and North Horseblock Road (Appendix B, Photograph 69). On the south side of Long Island Avenue, Survey Area LI01 encompassed overgrown brush covered roadsides and a small wooded area screening the LIRR corridor from Long Island Avenue. A buried natural gas pipeline cut across the survey area from the southwest to the northeast through the western woodlot island. Twenty-two STPs were excavated within Survey Area LI01 which revealed generally intact soil profiles across the majority of the wooded areas. STP LI01.01 can be used as a representative example of soil profiles in the wooded islands. It contained a dark brown (10YR 3/3) loamy sand A horizon extending to 0.98 ft (0.42 m) bgs capping a dark yellowish brown (10YR 4/4) loamy sand Bw1 horizon that extended to 0.98 ft (0.30 m) bgs. The Bw1 horizon overlaid a strong brown (7.5YR 5/6) loamy sand Bw2 horizon that extended to 1.96 ft (0.60 m) bgs above a brown (7.5YR 5/4) sand and rounded gravel BC horizon that extended to 2.72 ft (0.83 m). This was underlain by a yellowish brown (10YR 5/6) sand C horizon excavated to 3.28 ft (1.0 m) bgs (Appendix C). Some portions of the wooded islands encountered Fill horizons, likely a result of heavy machinery disturbance during road construction (Appendix C). On the south side of Long Island Avenue, STPs encountered an approximately 1.00-1.30 ft (0.30-0.40 m) thick plowzone capping sandy subsoil horizons.

Survey Areas E3 and E4 were located on both sides of Long Island Avenue between the Waverly Avenue and Washington Avenue. Survey Area E3 to the south of Long Island Avenue encompassed mixed deciduous and pine woodland, while Survey Area E4 to the north encompassed a cut grass roadside in the west and a low-lying mixed woodland with scrub brush and heavy leaf litter to the east (Appendix B, Photographs 44 and 45). A total of 30 STPs were excavated across both areas. The western two-thirds of Survey Areas E3 and E4 were on the same natural grade as Long Island Avenue. STPs excavated on this western side of the survey areas typically encountered disturbed or natural topsoil overlying two or more sandy subsoil horizons. STP E3.04 can be used as a representative example of soil profiles in the western two-thirds of the survey areas. It contained a brown (10YR 3/2) sandy loam A horizon extending to 0.52 ft (0.16 m) bgs capping a dark yellowish brown (10YR 4/6) sandy loam Bw horizon that extended to 1.64 ft (0.50 m) bgs. The Bw horizon overlaid a yellowish brown (10YR 5/4) medium sand Bw horizon that extended to 2.69 ft (0.82 m) bgs above a light brownish gray

(10YR 6/2) coarse sand subsoil C horizon excavated to 3.28 ft (1.0 m) bgs (Appendix C). The eastern two-thirds of two Survey Areas E3 and E4 were located in an area where Long Island Avenue was elevated above natural grade on a man-made berm. STPs south of Long Island Avenue in Survey Area E3 (on the same artificial grade as the road) encountered topsoil directly overlying high gravel content subsoils leading to impasses. STPs north of Long Island Avenue in Survey Area E4 (in a lower-lying woodland below the road grade) encountered topsoil disturbances over high gravel content subsoils (Appendix C).

Survey Areas E2 and E1 were located on both sides of Long Island Avenue between the Middle Avenue and Claremont Avenue. Survey Areas E2 and E1 encompassed both mixed growth woodland and a manicured lawn (Appendix B, Photographs 46 and 47). The eastern half of Survey Area E2, where Long Island Avenue is on a berm, was similarly elevated in relation to natural grade. Buried gas and electrical utilities were also marked within the area. A total of 23 STPs were excavated across both areas, which generally revealed natural or disturbed topsoil overlying two or more subsoil horizons. STPs excavated within the manicured lawn revealed disturbed profiles of fill and mixed, redeposited soils overlying intact subsoils. Soil profiles in the eastern half of Survey Area E2 (on the elevated berm) consisted of fill and redeposited soils overlying rock impasses or intact subsoils. STP E1.10 can be used as a representative example of undisturbed soil profiles in these survey areas. It contained a brown (10YR 3/2) sandy loam O/A horizon extending to 0.92 ft (0.28 m) bgs capping a dark yellowish brown (10YR 4/6) sandy loam B horizon with approximately 30% cobbles that extended to 2.13 ft (0.65 m) bgs. The B horizon overlaid a light yellowish brown (10YR 6/4) sand C horizon excavated to 3.28 ft (1.0 m) bgs (Appendix C).

3.2.3 Onshore Transmission Cable – Off-Route Variations

As discussed above, since the Phase IB archaeological survey fieldwork described in this report occurred concurrent with the Project design process, portions of the Onshore Transmission Cable – Off-Route Variations along Ashley Place, Montauk Highway, and Yaphank Avenue were subjected to Phase IB survey before being removed from consideration for Project facilities. Results of the Phase IB archaeological survey for the Off-Route Variations are discussed geographically by roadway, in the direction of the Landfall to the Interconnection area, in Sections 3.2.3.1 through 3.2.3.3, below.

3.2.3.1 Ashley Place

General Area Description: Survey Area D1 along Ashley Place was generally located within the mixed scrubby pine woodland portion of a commercial parcel. The survey area was categorized as Linear, measuring 110 ft (34 m). The survey area was located on the west side of Ashley Place between Mastic Boulevard West and Montauk Highway. No archaeological sites were identified.

Figure 3.2-1: Sheet 8

Survey Area D1 encompassed a mixed scrubby pine woodland on the west side of Ashley Place (Appendix B, Photograph 48). Two STPs were excavated within the survey area. The STPs uncovered natural topsoil overlying two subsoils. STP D1.01 can be considered typical of the survey area. It contained a brown (10YR

3/2) sandy loam A horizon extending to 0.79 ft (0.24 m) bgs overlying a dark yellowish brown (10YR 4/6) sandy loam B horizon with 20% gravels that extended to 2.40 ft (0.73 m) bgs. The B horizon overlaid a light yellowish brown (10YR 6/4) very coarse sand C horizon which was excavated to 3.28 ft (1.0 m) bgs (Appendix C).

3.2.3.2 Montauk Highway

General Area Description: Survey areas along Montauk Highway were located on cut grass roadsides with sparse scrub brush

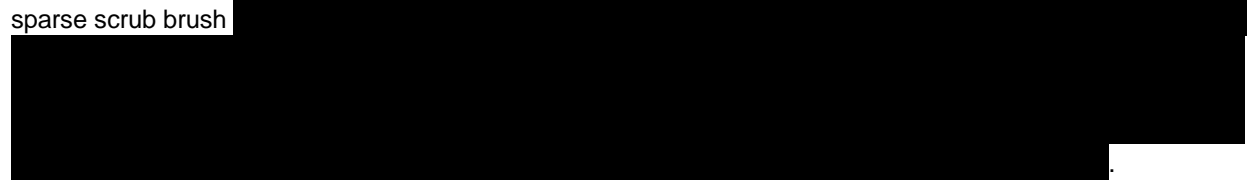
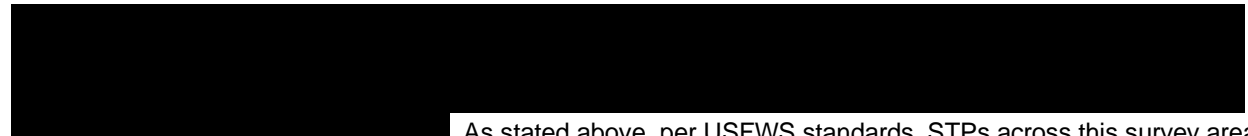


Figure 3.2-1: [Redacted]



[Redacted]. The area encompassed a cut grass roadside with a few scrub trees and bushes that appears to have been artificially flattened, as if for a former staging area (Appendix B, Photograph 49). A buried telephone line runs parallel with the road just south of the southern edge of the survey area, and a row of nine closely spaced utility access hole covers run east to west down the center of the eastern half of the survey area. STPs were placed along the northern edge of the survey area to avoid these disturbances whenever possible. A total of 11 STPs were excavated across the area, which generally encountered one or more Fills/redeposited soil horizons overlying either intact topsoil and subsoils or transitioning directly to subsoils (Appendix C). STP G2.08 can be used as a representative example of the soil profiles in the area. It contained a dark grayish brown (10YR 4/2) mixed with dark yellowish brown (10YR 4/6) sandy loam disturbed/redeposited horizon extending to 1.64 ft (0.50 m) bgs capping a yellowish brown (10YR 5/6) loamy sand B1 horizon that extended to 2.49 ft (0.76 m) bgs. The B1 horizon overlaid a light yellowish brown (10YR 6/4) sand B2 horizon excavated to 3.28 ft (1.0 m) bgs (Appendix C).



[Redacted]. As stated above, per USFWS standards, STPs across this survey area were excavated at a 26.2 ft (8.0 m) staggered interval, or approximately 32 STPs per acre, and were 1.6 by 1.6 ft (0.5 by 0.5 m) in size (USFWS 2020). A total of 105 STPs on 10 transects were excavated within Survey Area F, the large majority [Redacted] where the PAPE extends far from the road edge. STP excavation revealed that this area has undergone minimal disturbance as a result of road construction, a gas main along the south side of the road, and a gravel parking lot on the east side of the survey area north of the road. On the terrace, the typical soil profile consisted of organically rich topsoil, overlying an eluviated horizon, overlying two or more subsoil horizons. STP F7.05 is typical of soil profiles on the terrace and contained a very dark grayish brown (10YR 3/2) sandy loam Ao horizon extending to 0.33 ft (0.10 m) bgs overlying a light brownish gray (10YR 6/2) sand Ae horizon extending to 0.72 ft (0.22 m) bgs. This

eluviated layer overlaid a dark yellowish brown (10YR 4/4) loamy sand B horizon extending to 1.05 ft (0.32 m) bgs which capped another yellowish brown (10YR 5/6) sand B horizon extending to 2.62 ft (0.8 m) bgs. The lowest layer is a strong brown (7.5YR 4/6) coarse sand C horizon with cobbles and gravel inclusions extending to 3.28 ft (1.0 m) bgs (Appendix C). Being lower in elevation and [REDACTED] were largely terminated at a high water table. STP F7.12 is typical of soil profiles on the floodplain and contained a very dark brown (10YR 2/2) sandy loam OA horizon wetland muck extending to 0.98 ft (0.30 m) before the water table was encountered (Appendix C). Portions of the [REDACTED] consisting of saturated or inundated terrain were excluded from shovel testing. Unless precluded by the water table or roots, all STPs in Survey Area F were excavated to culturally-sterile subsoil, glacial till, and/or stream channel lag deposits, which was encountered within 3.28 ft (1.0 m) of the ground surface, to ensure that no deeply buried cultural deposits were present within this bottomland setting. Several shovel tests were hand-augered at their bases to glacial till or stream channel lag deposits to confirm the absence of deeply buried strata with the potential to contain cultural material (e.g., paleosols). [REDACTED]

[REDACTED]

The area encompassed a cut grass roadside that appears to have been artificially flattened, as if for a former staging area, and a stand of thick brush with sparse mixed growth trees (Appendix B, Photograph 50). A buried telephone line and water main run parallel with the road just south of the southern edge of the survey area. A total of eight STPs were excavated across the area, which generally encountered two or more Fills/redeposited soil horizons overlying either intact topsoil and subsoils or transitioning directly to subsoils, similar to the profiles recorded in [REDACTED] (Appendix C).

3.2.3.3 Yaphank Avenue

General Area Description: Survey areas along Yaphank Avenue were primarily located on deciduous woodland with scrub brush. Survey Area B1 was categorized as Block, totaling 0.27 acres (0.11 ha), while Survey Area B2 was categorized as Linear, measuring 549 ft (167 m). The survey areas were located on the west side of Yaphank Avenue between Sunrise Highway South Service Road and Horseblock Road, to the north and south of the Sunrise Highway. No archaeological sites were identified.

Figure 3.2-1: Sheet 15

Survey Area B1 was located on the west side of Yaphank Avenue between Sunrise Highway South Service Road and Sunrise Highway, west/southwest of paved turnaround loop. The area encompassed a deciduous woodland flat, transitioning to a grassy area near the paved turnaround (Appendix B, Photograph 51). A total of four STPs were excavated across the area, which generally encountered natural or disturbed topsoil overlying two subsoil horizons (Appendix C). STP B1.04 can be used as a representative example of the soil profiles in the area. It contained a dark brown (10YR 3/3) loamy sand road Fill/landscape A mix extending to 0.43 ft (0.13 m) bgs capping a dark yellowish brown (10YR 4/6) loamy sand natural subsoil horizon that extended to 2.53 ft

(0.77 m) bgs. The upper subsoil horizon overlaid a light yellowish brown (10YR 6/4) coarse sand natural subsoil horizon excavated to 3.28 ft (1.0 m) bgs (Appendix C).

Survey Area B2 was located on the west side of Yaphank Avenue between Sunrise Highway North Service Road and Yaphank Avenue. The area encompassed a deciduous woodland flat, with occasional nonnative planted conifers (Appendix B, Photograph 52). A total of 11 STPs were excavated across the area, which encountered entirely disturbed soil profiles consisting of stacked Fill horizons in the south, steadily transitioning to less disturbance moving northward (Appendix C). STP B1.10 is a good example of the few undisturbed profiles in the area. It contained a dark grayish brown (10YR 4/2) loamy sand A horizon extending to 1.12 ft (0.34 m) bgs capping a dark yellowish brown (10YR 4/6) sand B horizon that extended to 2.79 ft (0.85 m) bgs. The B horizon overlaid a yellowish brown (10YR 5/4) sand C horizon excavated to 3.28 ft (1.0 m) bgs (Appendix C).

3.2.4 OnCS–DC – Union Avenue Site

The entirety of the PAPE for the proposed OnCS-DC – Union Avenue Site was found to be previously disturbed (see Section 2.1.1, above and Figure 2.2-1). As such this area was not included in the Phase IB archaeological survey.

3.2.5 Onshore Interconnection Cable

Results of the Phase IB archaeological survey for the 163.3 acre (66.1 ha) Onshore Interconnection Cable Area, are organized into survey areas south (South Interconnect) and north (North Interconnect) of the LIE corridor. The results are discussed in Sections 3.2.5 through 3.2.5.2, below.

3.2.5.1 South Interconnect - West

General Area Description: Survey Area SI-W was located entirely on a LIPA owned parcel between Union Avenue and the LIE Service Road/Express Drive South. The survey area was categorized as Block, totaling 8.13 acres (3.29 ha) of PAPE. Survey Area SI-W is a combination of STP transects SI01 through SI06 excavated across the LIPA parcel in a departure from the STP and Survey Area naming conventions used for the Onshore Transmission Cable survey areas (Appendix C). No archaeological sites were identified.

Figure 3.2-1: Sheets 37

Survey Area SI-W encompassed both mature growth mixed woodland and a grass and scrub brush covered utility corridor climbing a gentle southern aspect slope (Appendix B, Photographs 53 and 54). The western half of the survey area was located in the woodland and bordered by a series of residential back yards to the west.

In some cases, yard clearing and fencing disturbances extended into the survey area on LIPA property (see Figure 3.2-1). The eastern half of the survey area fell within an existing overhead powerline corridor, with north to south running tree lines/hedgerows adjacent to disturbed access roads and footpaths. A total of 128 STPs were excavated across the area, which revealed generally intact soils profiles, with the exception of some surface disturbance and compaction within the cleared portions of the exiting utility corridor. STP SI03.05 can be considered typical of the survey area. It contained a dark grayish brown (10YR 4/2) sandy loam A/Ao horizon extending to 0.39 ft (0.12 m) bgs overlying a yellowish brown (10YR 5/6) sandy loam Bw horizon that extended to 1.84 ft (0.56 m) bgs. The Bw horizon overlaid a brown (7.5YR 5/4) loamy sand BC horizon with rounded gravels and cobbles that extended to 2.99 ft (0.91 m) bgs capping a light brownish gray (10YR 6/2) loose sand and gravel C horizon which was excavated to 3.28 ft (1.0 m) bgs (Appendix B, Photograph 55; Appendix C).

3.2.5.2 South Interconnect - East

General Area Description: Survey Area SI-E was located on NYPA and NatGrid parcels east of the existing NYPA power plant and Holtsville Gas plant between Union Avenue and the LIE Service Road/Express Drive South. Survey Area SI-E STPs were recorded in the format "NYPA.###" in a departure from the STP and Survey Area naming conventions used for the Onshore Transmission Cable survey areas (Appendix C). The survey area was categorized as Block, totaling 9.34 acres (3.78 ha) of PAPE. No archaeological sites were identified.

Figure 3.2-1: Sheets 34-36

Survey Area SI-E encompassed areas of mixed woodland with scrub brush ground cover, separated by utility corridors and cleared and/or paved access roads (Appendix B, Photographs 70-72). The areas appeared relatively undisturbed, though piles of industrial debris (such as concrete and asphalt) were observed south of the existing NYPA power plant. A total of 149 STPs were excavated across the area, which revealed generally intact soils profiles, with the exception of some surface disturbance near Union Avenue and adjacent to the utility corridors/access roads. STP NYPA.36 can be considered typical of the survey area. It contained a dark grayish brown (10YR 4/2) sandy loam A horizon extending to 0.92 ft (0.28 m) bgs capping a dark yellowish brown (10YR 4/6) loamy sand Bw1 horizon that extended to 1.61 ft (0.49 m) bgs. The Bw1 horizon overlaid a yellowish brown (10YR 5/6) sand Bw2 horizon that extended to 2.23 ft (0.68 m) bgs above a light yellowish brown (10YR 6/4) sand and rounded gravel BC horizon that extended to 2.85 ft (0.87 m). This was underlain by a light brownish gray (10YR 6/2) sand C horizon excavated to 3.28 ft (1.0 m) bgs (Appendix C).

3.2.5.3 *North Interconnect*

General Area Description: Survey areas were located on LIPA owned parcels north of the LIE Service Road/Express Drive North roughly between Lakeside Drive and Avenue C. The survey areas were categorized as Block, totaling 18.66 acres (7.55 ha) of PAPE. Survey areas were located surrounding the existing Holbrook electrical substation. The survey areas encompassed a mix of mature growth woodland, grass and scrub brush covered existing utility corridors, and multiple disturbed access roads. No archaeological sites were identified.

Figure 3.2-1: Sheets 38-39

Survey Area NI03 was located in the southeast portion of the North Interconnect area, southeast of the existing Holbrook substation, and to the east of a four-structure wide overhead electrical transmission corridor. Survey Area NI03 encompassed both a mature growth mixed wooded tree line and a grass and brush covered single line/tower overhead electrical transmission corridor (Appendix B, Photograph 56). Forty-one STPs excavated in the area encountered generally intact soil profiles, with some mixed/Fill horizons and compacted soils in the eastern single-structure wide utility corridor (Appendix C). Soils were sandy, with rounded and subrounded gravels present, with particle size increasing with depth. STP NI03.22 can be considered typical of the survey area. It contained a dark grayish brown (10YR 4/2) sandy loam developing A horizon extending to 0.23 ft (0.07 m) bgs overlying a light yellowish brown (10YR 6/4) sandy loam B1 horizon that extended to 1.64 ft (0.50 m) bgs. The B1 horizon overlaid a yellowish brown (10YR 5/6) loamy sand B2 horizon with rounded gravels and cobbles that extended to 2.62 ft (0.80 m) bgs capping a light brownish gray (10YR 6/2) coarse sand C horizon subsoil which was excavated to 3.28 ft (1.0 m) bgs (Appendix C).

Survey Area NI02 was located in the southwest portion of the North Interconnect area, south of the existing Holbrook substation. Survey Area NI02 encompassed both a mature growth mixed woodland and a grass and brush covered four-structure wide overhead electrical transmission corridor (Appendix B, Photograph 57). Both paved and exposed subsoil access roads cut across the area. One hundred STPs excavated in the area encountered generally intact soil profiles, with some mixed/Fill horizons and compacted soils within and near the utility corridor and access roads (Appendix C). Soils were sandy, with rounded and subrounded gravels present, with particle size increasing with depth. STP NI02.16 can be considered typical of the survey area. It contained a brown (10YR 3/2) sandy loam A/Ao horizon extending to 0.85 ft (0.26 m) bgs overlying a yellowish brown (10YR 5/4) sandy loam Bw horizon that extended to 2.10 ft (0.64 m) bgs. The Bw horizon overlaid a yellowish brown (10YR 5/6) loamy sand BC horizon with rounded gravels and cobbles that extended to 3.15 ft (0.96 m) bgs capping a light brownish gray (10YR 6/2) loose sand and gravel C horizon subsoil which was excavated to 3.58 ft (1.09 m) bgs (Appendix B, Photograph 58; Appendix C).

Survey Area NI04 was located in the central west portion of the North Interconnect area, west of the existing Holbrook substation. Survey Area NI04 encompassed mixed growth woodland areas with scrub brush and leaf litter ground cover separated by cleared paths and access roads. Thirty-four STPs across these areas encountered a mix of intact and disturbed/compacted topsoil horizons, overlying relatively undisturbed, sandy subsoils (Appendix C). Soil profiles were similar to those observed in Survey Area NI02 to the south and east.

Survey Areas NI01 and NI05 were located north of the existing Holbrook substation and encompassed potentially undisturbed portions of a grass and brush covered overhead electrical transmission corridor, scrubby pine woodland north and east of an existing electrical grounding station, and mixed woodland east of the existing substation (Appendix B, Photograph 59). One hundred and fifty-four STPs excavated across Survey Areas NI01 and NI05 encountered generally intact soil profiles, with some mixed/Fill horizons and compacted soils in the eastern single-line wide utility corridor (Appendix C). Soils profiles were mostly similar to those encountered in Survey Area NI02 to the south. Sporadic surface disturbances were encountered near access roads and the electrical facilities, and occasional deep mixed soil and Fill deposits were revealed in potentially graded areas (Appendix C). STPs excavated in the approximately 40.0 ft (12.2 m) wide mixed

woodland strip east of the Holbrook substation also encountered a high concentration of modern refuse on the surface, likely dumped from the residential parcels immediately to the east.

3.3 Identified Archaeological Resources

In total, the Phase IB archaeological survey conducted for the Sunrise Wind Onshore Facilities resulted in the identification of one archaeological site associated with an Off-Route Variation and, therefore, located outside of the PAPE. EDR archaeologists encountered modern materials and refuse in the upper, disturbed soil horizons of STPs in almost all areas surveyed; this material was noted and discarded in the field (see Appendix C).

3.3.1 Site EDR-SRW-001

Resource Type: Native American Lithic Scatter – medium density

Survey Area: [REDACTED]

Site Description: The EDR-SRW-001 site is a medium density Native American lithic scatter consisting of 52 artifacts. Following preliminary identification of the site [REDACTED] removed from the Onshore Transmission Cable Preferred Route so that the site would be avoided by Onshore Facility-related impacts. As such, the site will be avoided by Onshore Facility-related impacts and therefore no mitigation or avoidance measures are proposed, no additional archaeological investigations are recommended, and the site is not evaluated for its inclusion in the State/National Register of Historic Places (S/NRHP).

[REDACTED]. Soils within the site are mapped as Plymouth loamy sand, 0 to 3 percent slopes (PIA), an excessively drained soil that forms within sandy glaciofluvial or deltaic deposits on moraines and outwash plains (ESRI and NRCS, 2021). Vegetation at the site consists of deciduous woodland dominated by red maples and oaks with various other hardwoods (particularly sassafras) and scrub cover (Appendix B, Photographs 60 and 61). [REDACTED]

[REDACTED]. The two loci themselves, as defined by the extent of artifact-bearing shovel tests, are undisturbed and based on the encountered stratigraphy have likely always been wooded (discussed below).

The EDR-SRW-001 Native American lithic scatter includes a total of 52 artifacts, consisting of 39 pieces of quartz debitage, 12 pieces of thermally-altered quartz, and one quartz cobble core, all recovered from shovel tests. These artifacts are described in Appendix D, summarized in Table 3.3.1-1 below, and depicted in Appendix B, Photographs 62-64. The large majority of the assemblage consists of quartz debitage (n=39; 75.0 percent) including angular debris/shatter (n=14; 26.9 percent), primary flakes (n=1; 1.9 percent), secondary flakes (n=7; 13.5 percent), and tertiary flakes (n=17; 32.7 percent) (Appendix B, Photograph 62). Cortex-bearing debitage indicates that small, rounded quartz cobbles were sourced for tool production. Quartz cobbles, deposited with till from the retreating glacier, represent a locally abundant source of stone tool raw material. Thermally-altered quartz fragments (n=12; 23.1 percent) were also recovered from the site and identified by their fractured, red/pink/yellow discolored, and clouded appearance (Appendix B, Photograph 63). These rock fragments were not associated with *in situ* burning. Similar to the debitage, thermally-altered rock with cortex indicates that they derive from small, rounded quartz cobbles. The remaining artifact included in the EDR-SRW-001 assemblage consists of an unbroken quartz cobble core (n=1; 1.9 percent) (Appendix B, Photograph 64). Opposite sides of the cobble bear evidence of micro-fracturing and battering (knocked off flakes/shatter), suggesting that attempts were made to reduce the core into smaller pieces via anvil and/or bipolar technique.

Although no diagnostic artifacts indicative of temporal association were identified at the site, the spatial patterning of artifact classes suggests that different activities were occurring across the site. The northern locus contains 37 of the 39 pieces (94.9 percent) of quartz debitage present at the site, including the quartz cobble core, while the southern locus contains all 12 pieces (100 percent) of thermally-altered quartz recovered from the site. This artifact distribution indicates that although some minor stone tool production was occurring in the southern locus, knapping activities predominately occurred within the northern locus. Conversely, activities within the southern locus were primarily focused on the production and/or use of thermally-altered quartz. The recovery of one tertiary flake from the southern locus bearing evidence of thermal alteration (STP F7.05) suggests that quartz cobbles may have been heat-treated to improve their knapping quality. The lack of burn features or charcoal within or near the site suggests that heat-treatment occurred elsewhere, possibly to the south outside the PAPE.

Table 3.3.1-1. Artifacts Collected at Site EDR-SRW-001.

Artifacts	Northern Locus				Southern Locus					Total
	F3.10	F4.05	F4.10	F5.07	F7.05	F7.06	F8.06	F8.07	F8.08	
Core				1						1
Amorphous				1						1
Debitage	2	1	33	1	1			1		39
Angular Debris / Shatter	1		6							7
Angular Debris / Shatter with Cortex	1		6							7
Primary Flake			1							1
Secondary Flake		1	5					1		7
Tertiary Flake			15	1	1					17
Thermally-Altered Rock						1	5	5	1	12
Total	2	1	33	2	1	1	5	6	1	52

All cultural material was recovered during shovel testing; no artifacts were noted on the ground surface, which was covered in snow and heavy leaf litter. All artifacts were recovered from intact subsoil horizons, predominately the Bw1 horizon below the E horizon, although some were recovered from the Bw2 horizon above the C horizon. Soils encountered at the site were undisturbed and found to be generally uniform (Appendix B, Photograph 65). The soil profile within STP F8.07 can be used as a representative example, which contained an Ao-Ae-Bw1-Bw2-C stratigraphic profile. The Ao horizon consisted of a very dark grayish brown (10YR 3/2) sandy loam that extended to 0.59 ft (0.18 m) in depth. The Ae horizon consisted of a light brownish gray (10YR 6/2) sand that extended to 1.21 ft (0.37 m) in depth. The presence of an eluviated (E) horizon across the site indicates that it has not been submitted to agricultural plowing or other surficial disturbances and has likely always been wooded. The Bw1 horizon consisted of a dark yellowish brown (10YR 4/6) sandy loam, with no rock inclusions, which extended to 2.23 ft (0.68 m) in depth. The Bw2 horizon consisted of a yellowish brown (10YR 5/6) loamy sand, with no rock inclusions, which extended to 3.22 ft (0.98 m) in depth. The C horizon consisted of a strong brown (7.5YR 4/6) coarse sand, with cobbles and gravel inclusions, which extended to 3.61 ft (1.10 m) in depth (Appendix C). All shovel tests within the site were excavated to at least 3.28 ft (1.0 m) in depth which encountered culturally sterile C horizons [REDACTED] and/or as glacial outwash. Several shovel tests were hand-augered at their bases to glacial till or stream channel lag deposits to confirm the absence of deeply buried strata (beyond 3.28 ft [1.0 m]) with the potential to contain cultural material (e.g., paleosols).

Recommendation: EDR-SRW-001 is a medium density Native American lithic scatter consisting of quartz debitage, thermally-altered quartz, and one quartz cobble core. The artifacts, along with the absence of any features, suggests that the site represents the location of a short-term camp where stone tools were being produced, at least in part by heat-treatment and anvil and/or bipolar lithic reduction. Onshore Facilities will not disturb the site as it is located along an Off-Route Variation [REDACTED]. As such, no mitigation or avoidance measures are proposed, no further archaeological work is recommended, and the site is unevaluated for its inclusion in the S/NRHP.

4.0 SUMMARY AND CONCLUSIONS

4.1 Summary and Discussion of Phase IB Archaeological Survey Results

This TARA was completed in accordance with the proposed Phase IB archaeological survey methodology submitted to NYSHPO in the *Phase IA Archaeological Survey* report (EDR 2020). Fieldwork described in this report occurred across multiple mobilizations between November 2020 and May 2022.

EDR personnel excavated a total of 1,470 STPs across 67 survey areas covering a total of 39,036 ft (11,898 m) of Linear PAPE and 40.05 acres (16.21 ha) of Block PAPE. All accessible, potentially undisturbed areas along the PAPE for the Preferred Route were subjected to Phase IB survey, with the exception of those areas not currently planned for Project activities resulting in ground disturbance. Phase IB archaeological survey was also conducted on some portions of Off-Route Variations, which are no longer under consideration for Project facilities.

As identified in Section 3.3.1 above, one archaeological resource, Native American site EDR-SRW-001, was identified within the Off-Route Variations, outside of the PAPE. No other archaeological sites or isolated archaeological artifacts were recovered from any of the other Project locations assessed as part of the Phase IB survey.

4.2 Recommendations

As described in Section 3.3 of this report, one archaeological site EDR-SRW-001, was identified within the Off-Route Variations, outside of the PAPE. Onshore Facilities will not disturb the site as it is located along an Off-Route Variation [REDACTED]. As such, no mitigation or avoidance measures are proposed, and no further archaeological work is recommended.

Field investigations of some archaeologically sensitive areas are not feasible at this time because temporary laydown areas are not fully identified. Sunrise Wind anticipates that identification efforts at such locations would be conducted under BOEM's deferred identification process. If potential refinement to the Onshore Facilities design results in the citing of laydown areas or Project facilities on potentially undisturbed portions of the PAPE that have not been subjected to Phase IB survey, those areas will be subjected to Phase IB survey following the same methodology outlined in this report and the previous Phase IA surveys for the Project. Those results will be provided in an addendum to this report.

If unanticipated archaeological resources are encountered during construction, the Project's unanticipated discovery plan includes provisions to stop all work in the vicinity of the archaeological finds until those resources can be evaluated and documented by an archaeologist. With the adoption of these measures and based on continued consultation with the NYSHPO, the proposed Sunrise Wind Project is not anticipated to result in any adverse effects to any potentially S/NRHP-eligible terrestrial archaeological resources.

5.0 REFERENCES

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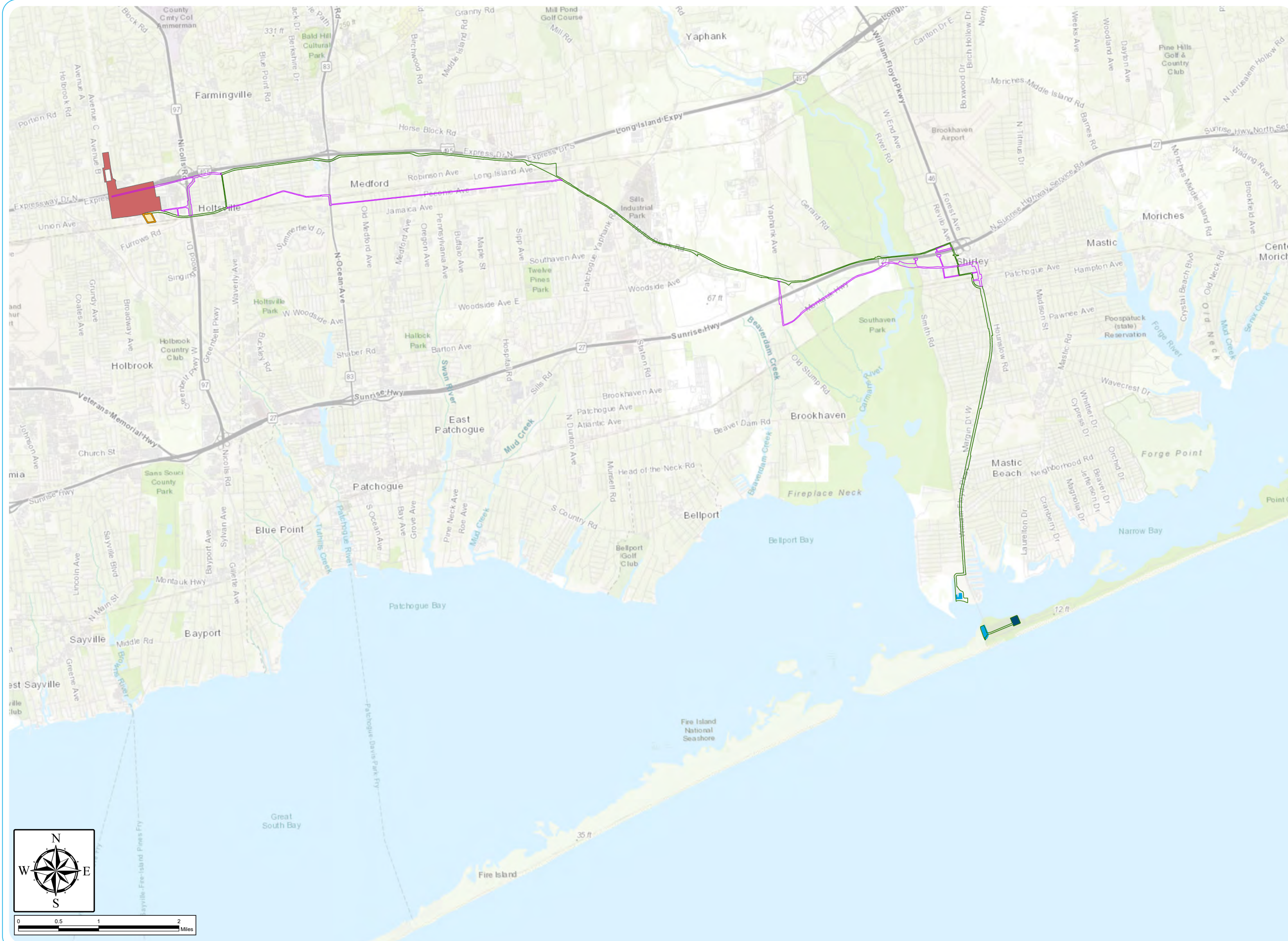
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Figures

Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 1.2-1: Regional Onshore Facilities Location



- Onshore Transmission Cable Corridor
- Preferred Route
- Onshore Interconnection Cable Corridor
- OnCS-DC
- Off-Route Variations
- ICW Work Area
- Landfall Work Area

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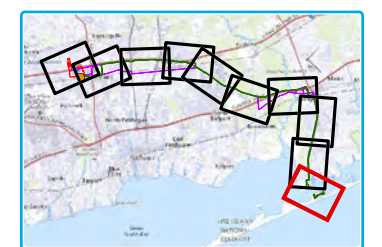


Sunrise Wind Farm

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Figure 1.2-2: Proposed Onshore Facilities

- ICW Work Area
- Landfall Work Area
- Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
- Trenchless Footprint



Sheet 1 of 10

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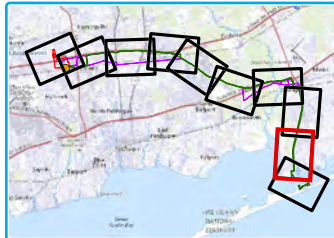


Sunrise Wind Farm

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Figure 1.2-2: Proposed Onshore Facilities

- ICW Work Area
- Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
- Trenchless Footprint



Sheet 2 of 10

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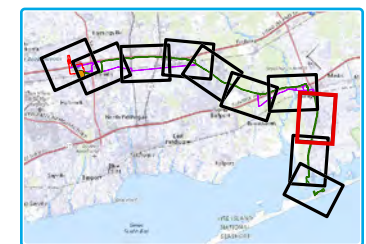
Sunrise Wind Farm

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Figure 1.2-2: Proposed Onshore Facilities



- Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
- Off-Route Variations
- Trenchless Footprint



Sheet 3 of 10

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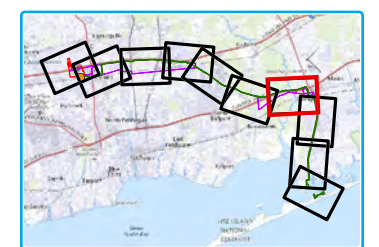
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Figure 1.2-2: Proposed Onshore Facilities

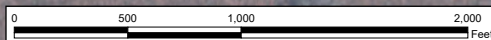
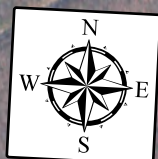


- Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
- Off-Route Variations
- Trenchless Footprint



Sheet 4 of 10

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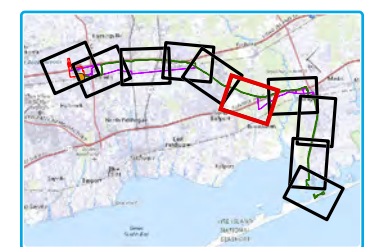


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Figure 1.2-2: Proposed Onshore Facilities

- - - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
- Off-Route Variations
- Trenchless Footprint



Sheet 5 of 10

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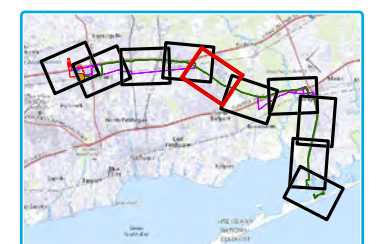
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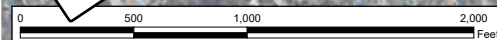
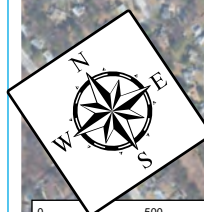
Figure 1.2-2: Proposed Onshore Facilities

- Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
- Off-Route Variations
- Trenchless Footprint



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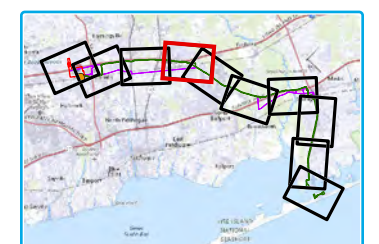
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Figure 1.2-2: Proposed Onshore Facilities

- Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
- Off-Route Variations
- Trenchless Footprint



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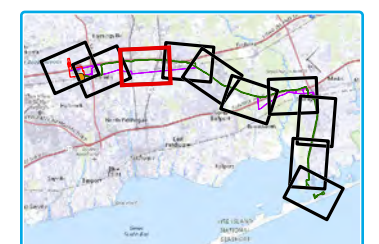
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Figure 1.2-2: Proposed Onshore Facilities



- Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
- Off-Route Variations



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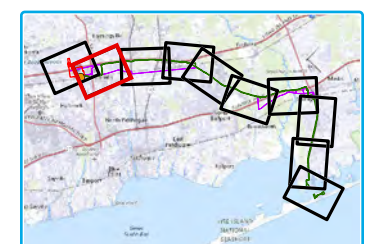
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Figure 1.2-2: Proposed Onshore Facilities



- Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
- Onshore Interconnection Cable Corridor
- OnCS-DC
- Off-Route Variations
- Onshore Interconnection Cable



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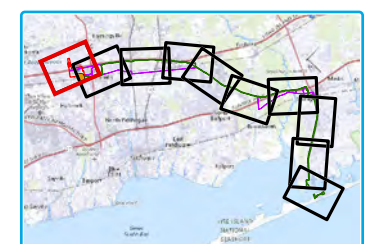
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Figure 1.2-2: Proposed Onshore Facilities



- Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
- Onshore Interconnection Cable Corridor
- OnCS-DC
- Off-Route Variations
- Onshore Interconnection Cable
- Trenchless Footprint



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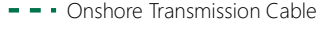


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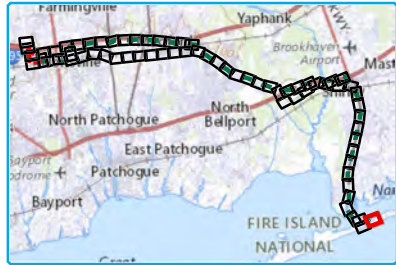


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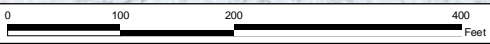
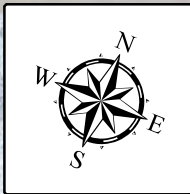
Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results

- Archaeological Reconnaissance Results
-  Disturbed
 -  Onshore Transmission Cable
 - Onshore Transmission Cable Corridor
 -  Preferred Route
 -  Landfall Work Area



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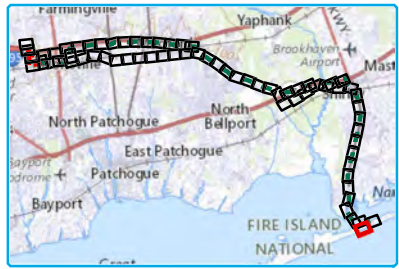


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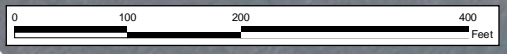
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Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results

- Archaeological Reconnaissance Results
- Disturbed
 - Onshore Transmission Cable
 - Onshore Transmission Cable Corridor
 - Preferred Route
 - ICW Work Area
 - Landfall Work Area
 - Trenchless Footprint



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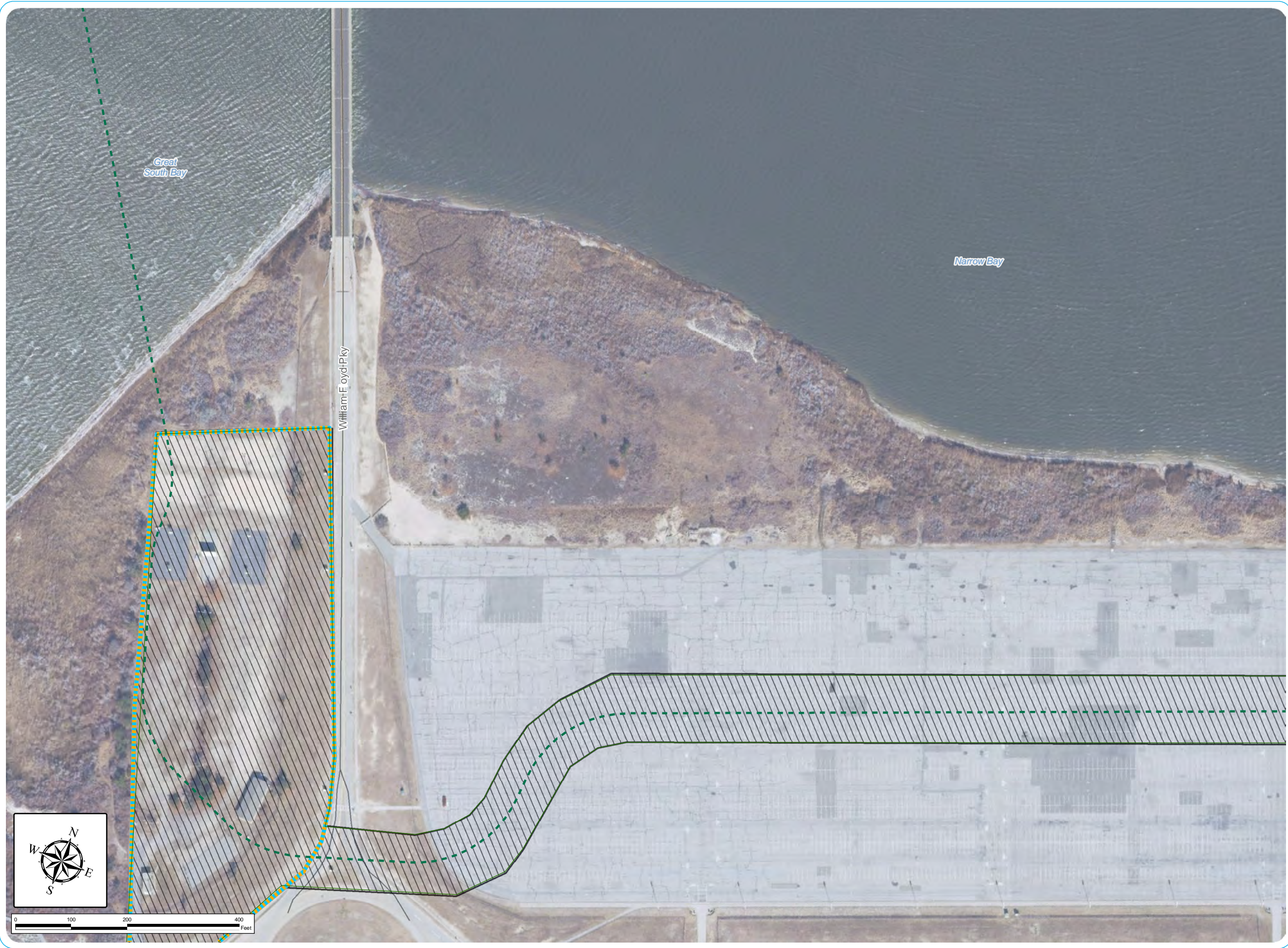


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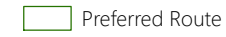


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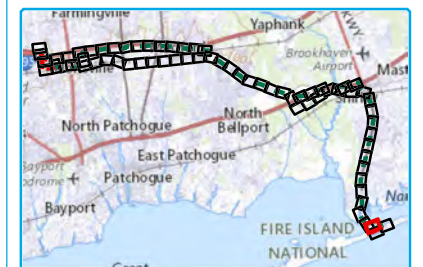
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**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**



Archaeological Reconnaissance Results

-  Disturbed
-  Onshore Transmission Cable
- Onshore Transmission Cable Corridor
-  Preferred Route
-  ICW Work Area
-  Trenchless Footprint



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Figure 2.2-1:
Archaeological Reconnaissance and Desktop Assessment Results

- Archaeological Reconnaissance Results
- Disturbed
 - Onshore Transmission Cable
 - Onshore Transmission Cable Corridor
 - Preferred Route
 - ICW Work Area
 - Trenchless Footprint



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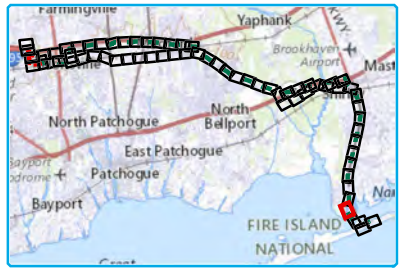


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Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results

- Archaeological Reconnaissance Results
- Disturbed
 - DOT Roadway
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
 - ICW Work Area
 - Trenchless Footprint



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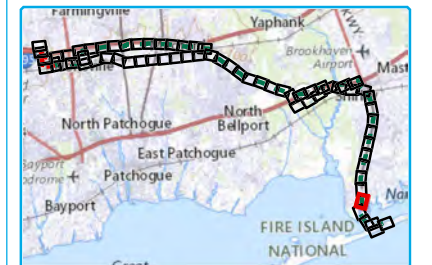
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**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**



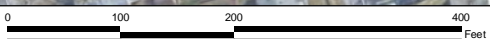
Archaeological Reconnaissance Results

-  Disturbed
-  Potentially Undisturbed
-  DOT Roadway
-  Onshore Transmission Cable
- Onshore Transmission Cable Corridor
-  Preferred Route

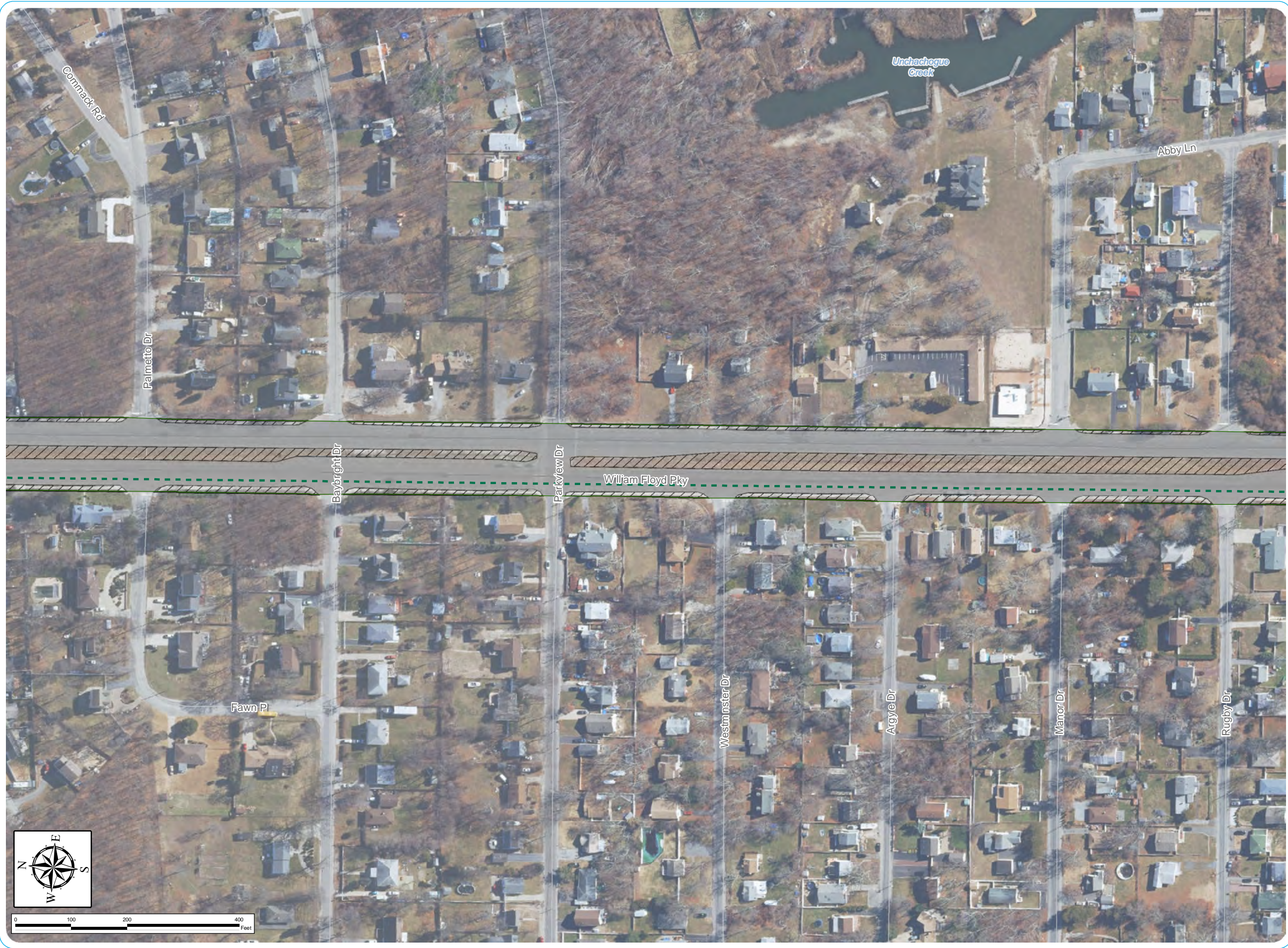


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**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**

- Archaeological Reconnaissance Results
-  Disturbed
 -  DOT Roadway
 -  Onshore Transmission Cable
- Onshore Transmission Cable Corridor
-  Preferred Route



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Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results

- Archaeological Reconnaissance Results
- Disturbed
 - Potentially Undisturbed
 - DOT Roadway
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route

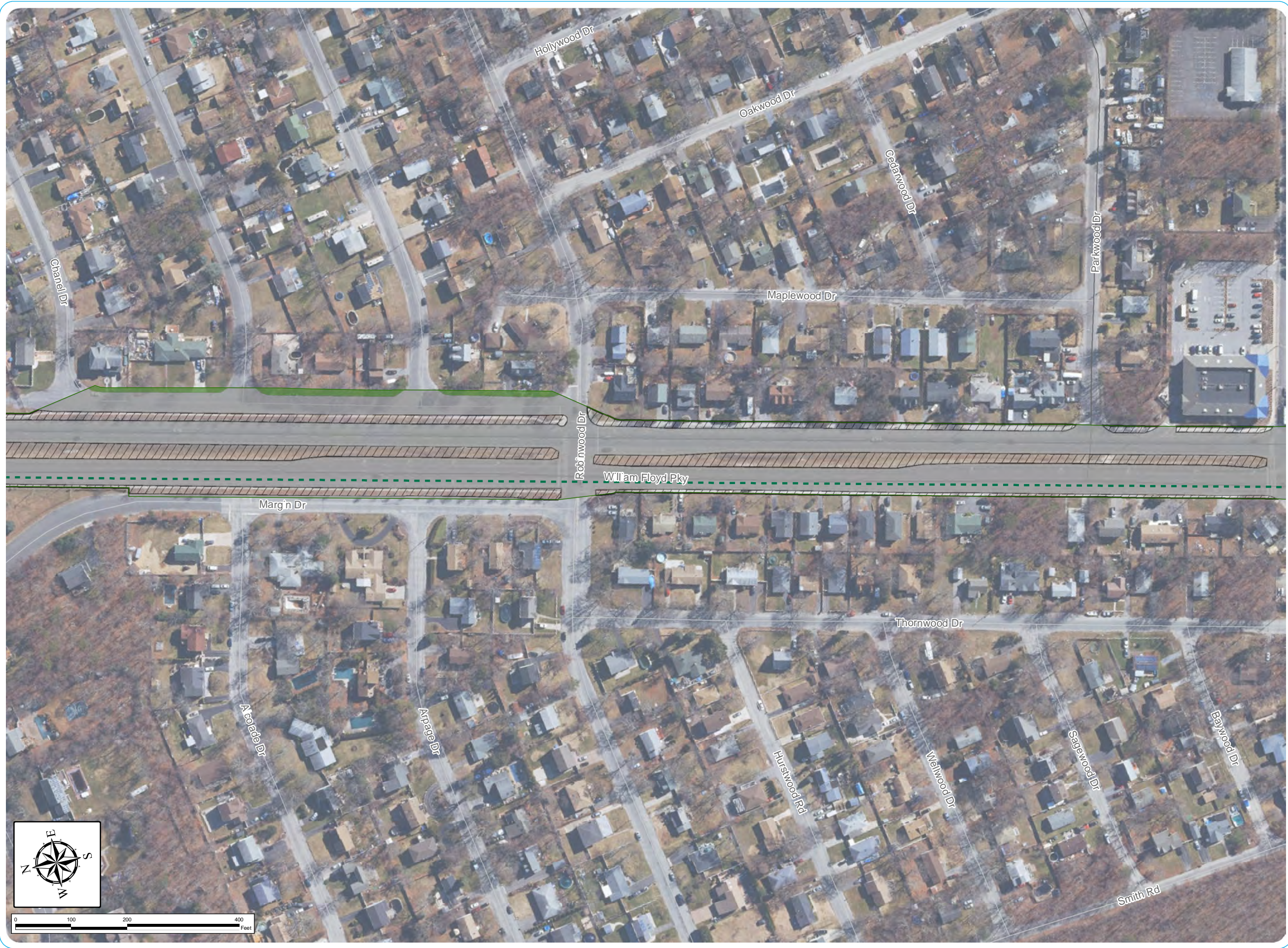


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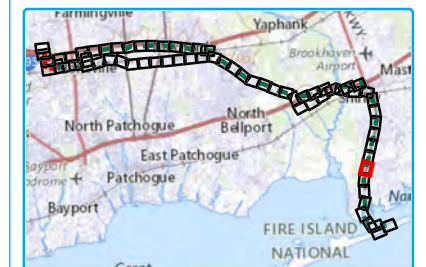
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Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results



Archaeological Reconnaissance Results

-  Disturbed
-  Potentially Undisturbed
-  DOT Roadway
-  Onshore Transmission Cable
-  Onshore Transmission Cable Corridor
-  Preferred Route



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Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results

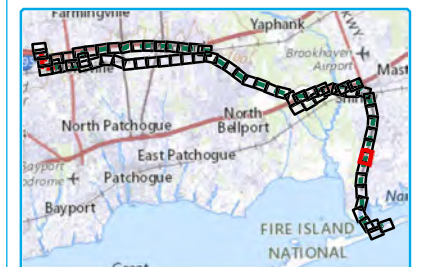


Archaeological Reconnaissance Results

-  Disturbed
-  Potentially Undisturbed
-  DOT Roadway
-  Onshore Transmission Cable

Onshore Transmission Cable Corridor

-  Preferred Route



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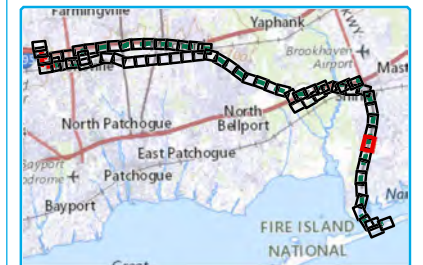
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Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results



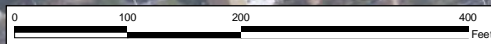
Archaeological Reconnaissance Results

-  Disturbed
 -  Potentially Undisturbed
 -  DOT Roadway
 -  Onshore Transmission Cable
- Onshore Transmission Cable Corridor
-  Preferred Route



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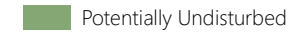

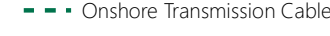
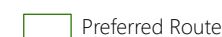
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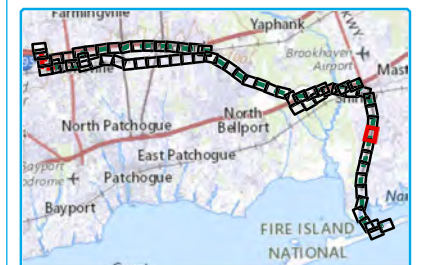
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**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**



Archaeological Reconnaissance Results

-  Disturbed
-  Potentially Undisturbed
-  DOT Roadway
-  Onshore Transmission Cable
- Onshore Transmission Cable Corridor
-  Preferred Route



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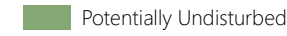

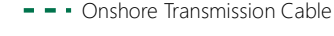
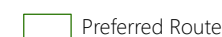
Sunrise Wind Farm

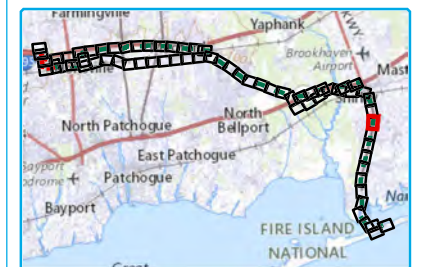
Town of Brookhaven, Suffolk County, New York

Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results



Archaeological Reconnaissance Results

-  Disturbed
-  Potentially Undisturbed
-  DOT Roadway
-  Onshore Transmission Cable
- Onshore Transmission Cable Corridor
-  Preferred Route



Sheet 13 of 69

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale

Sunrise Wind

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Sunrise Wind Farm

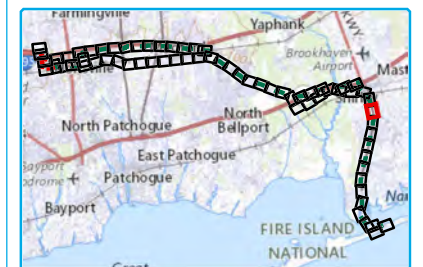
Town of Brookhaven, Suffolk County, New York

Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results



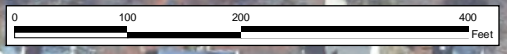
Archaeological Reconnaissance Results

-  Disturbed
-  Potentially Undisturbed
-  DOT Roadway
-  Onshore Transmission Cable
- Onshore Transmission Cable Corridor
-  Preferred Route



Sheet 14 of 69

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



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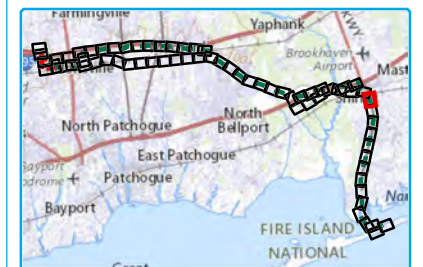
Town of Brookhaven, Suffolk County, New York

Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results



Archaeological Reconnaissance Results

- Disturbed
 - Potentially Undisturbed
 - DOT Roadway
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
 - Off-Route Variations
 - Trenchless Footprint



Sheet 15 of 69

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale

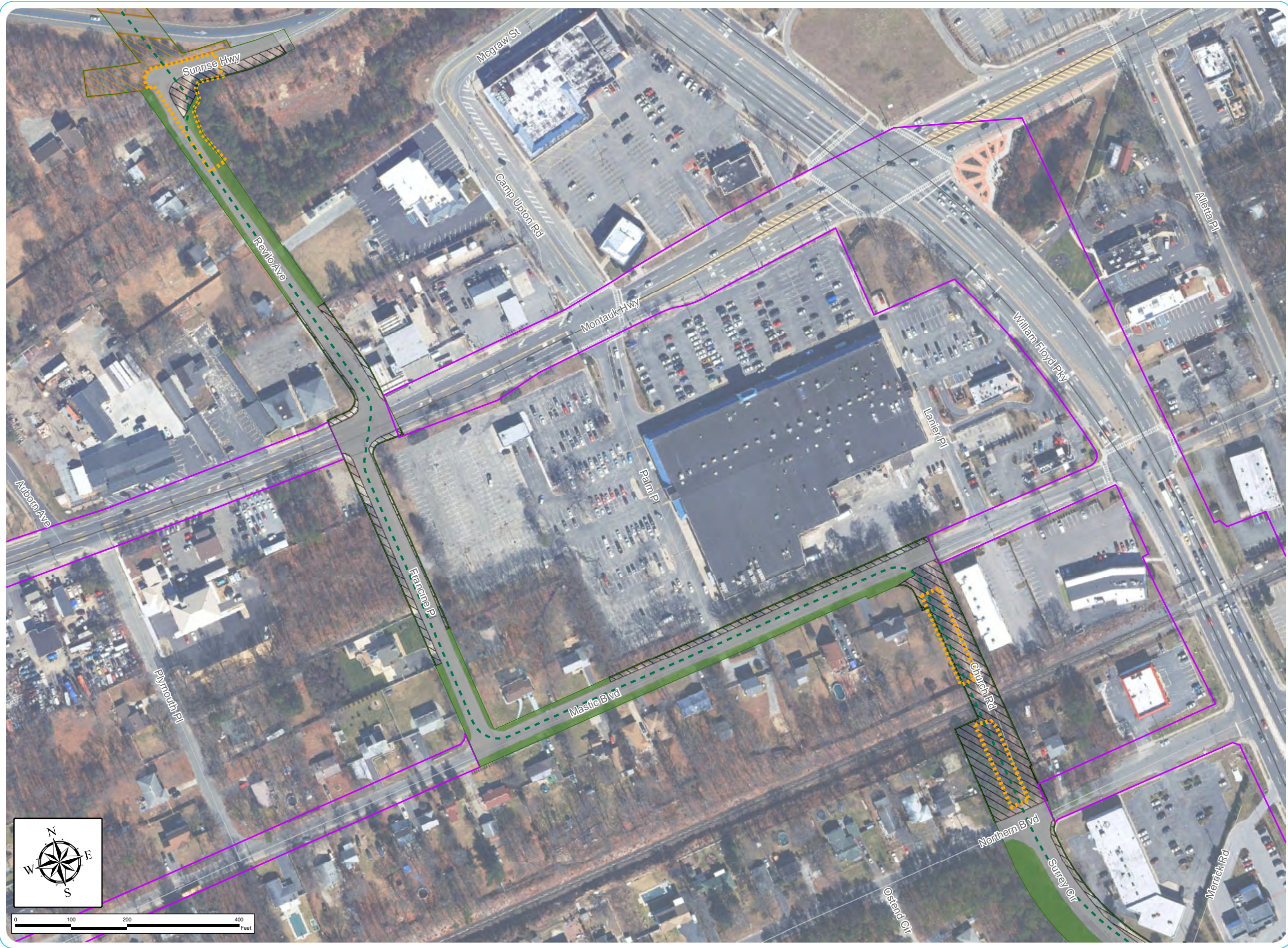
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Sunrise Wind Farm

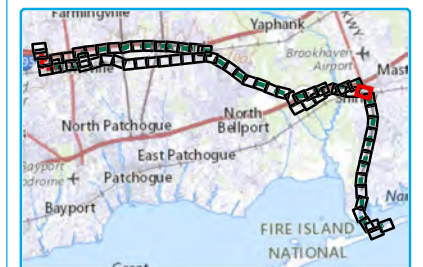
Town of Brookhaven,
Suffolk County, New York

**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**



Archaeological Reconnaissance Results

- Disturbed
 - Potentially Undisturbed
 - Previously Tested
 - DOT Roadway
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
 - Off-Route Variations
 - Trenchless Footprint



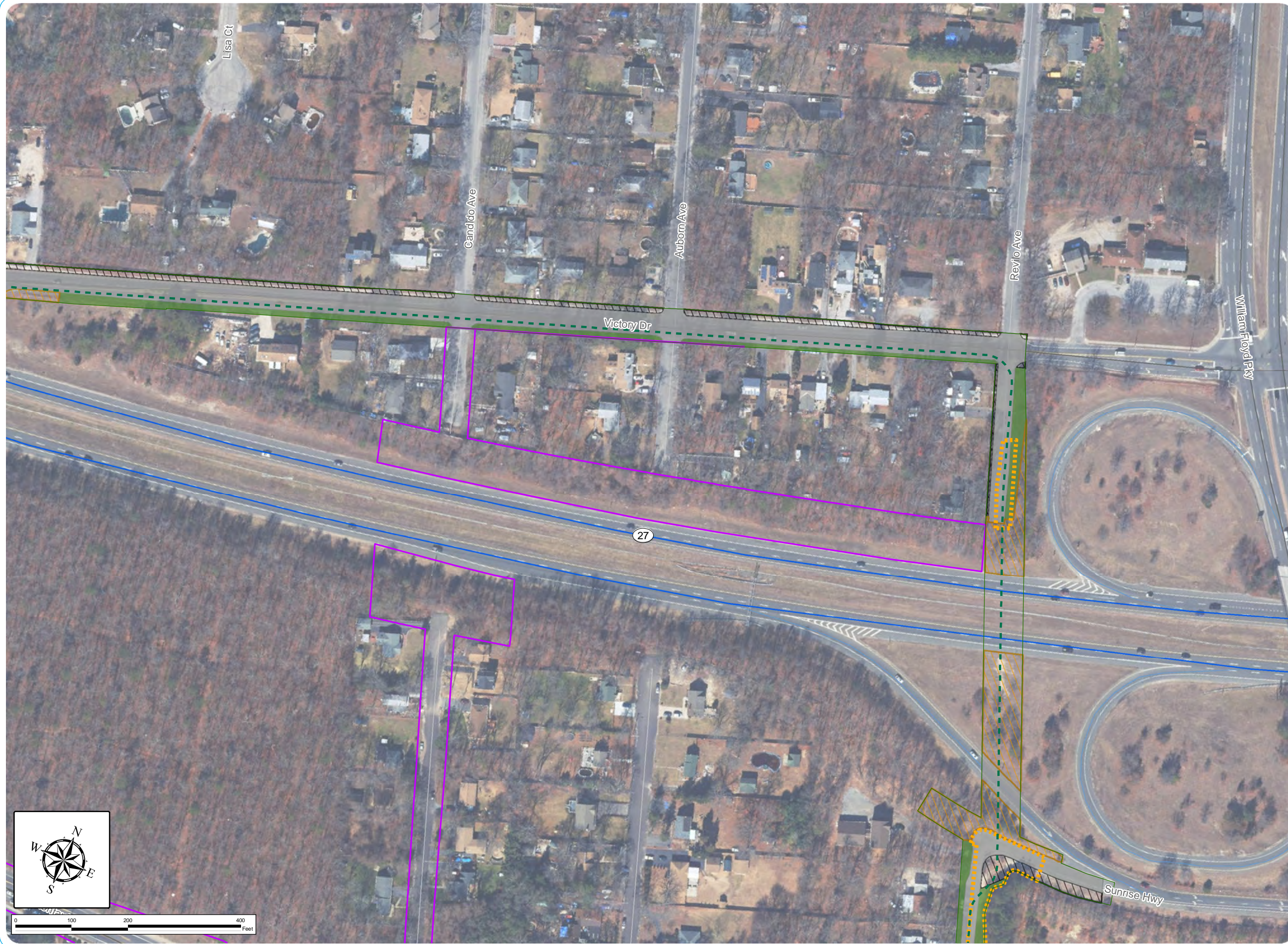
Sheet 16 of 69

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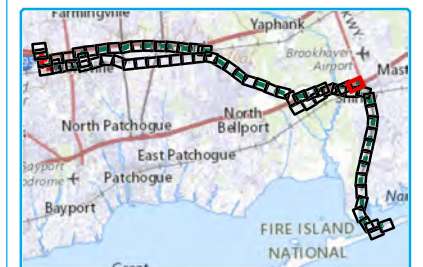
Town of Brookhaven,
Suffolk County, New
York

**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**



Archaeological Reconnaissance Results

- Disturbed
- Potentially Undisturbed
- Previously Tested
- DOT Roadway
- Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
- Off-Route Variations
- Trenchless Footprint



Sheet 17 of 69

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



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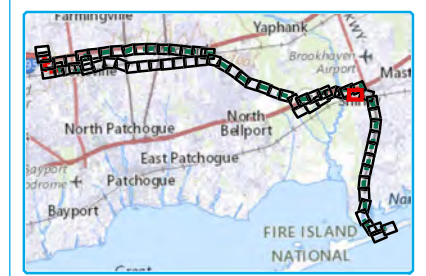


Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

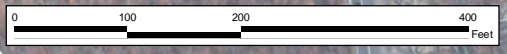
**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**

 Off-Route Variations



Sheet 18 of 69

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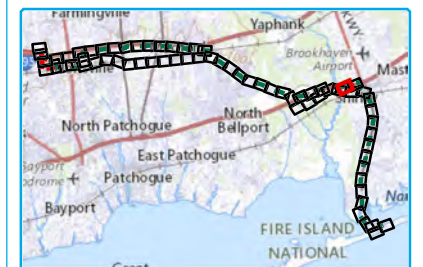
Town of Brookhaven, Suffolk County, New York

Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results



Archaeological Reconnaissance Results

-  Disturbed
-  Potentially Undisturbed
-  Previously Tested
-  DOT Roadway
-  Onshore Transmission Cable
- Onshore Transmission Cable Corridor
-  Preferred Route
-  Off-Route Variations
-  Trenchless Footprint

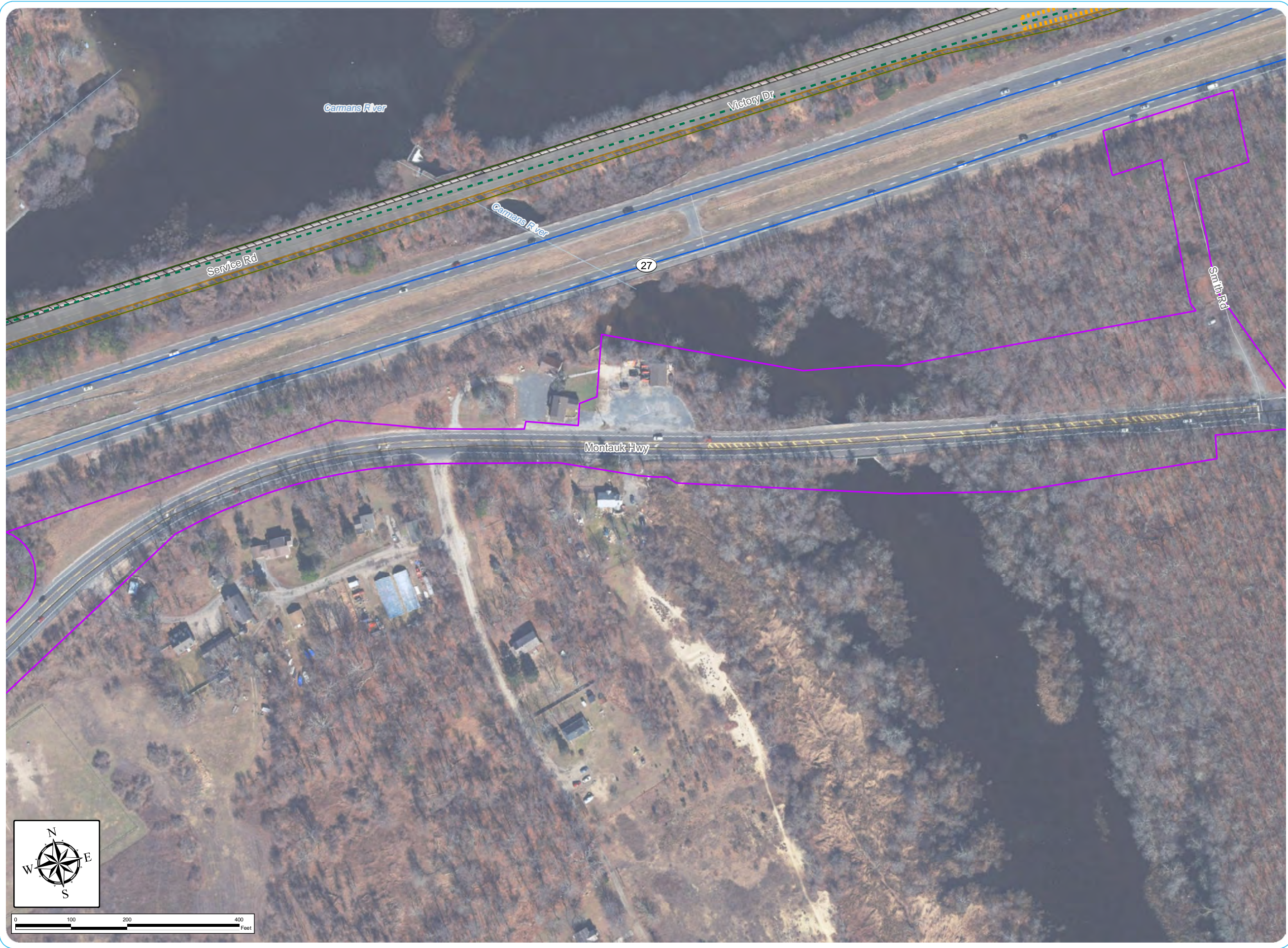


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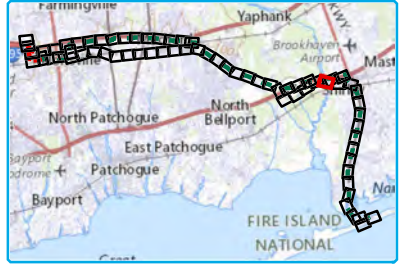


Sunrise Wind Farm

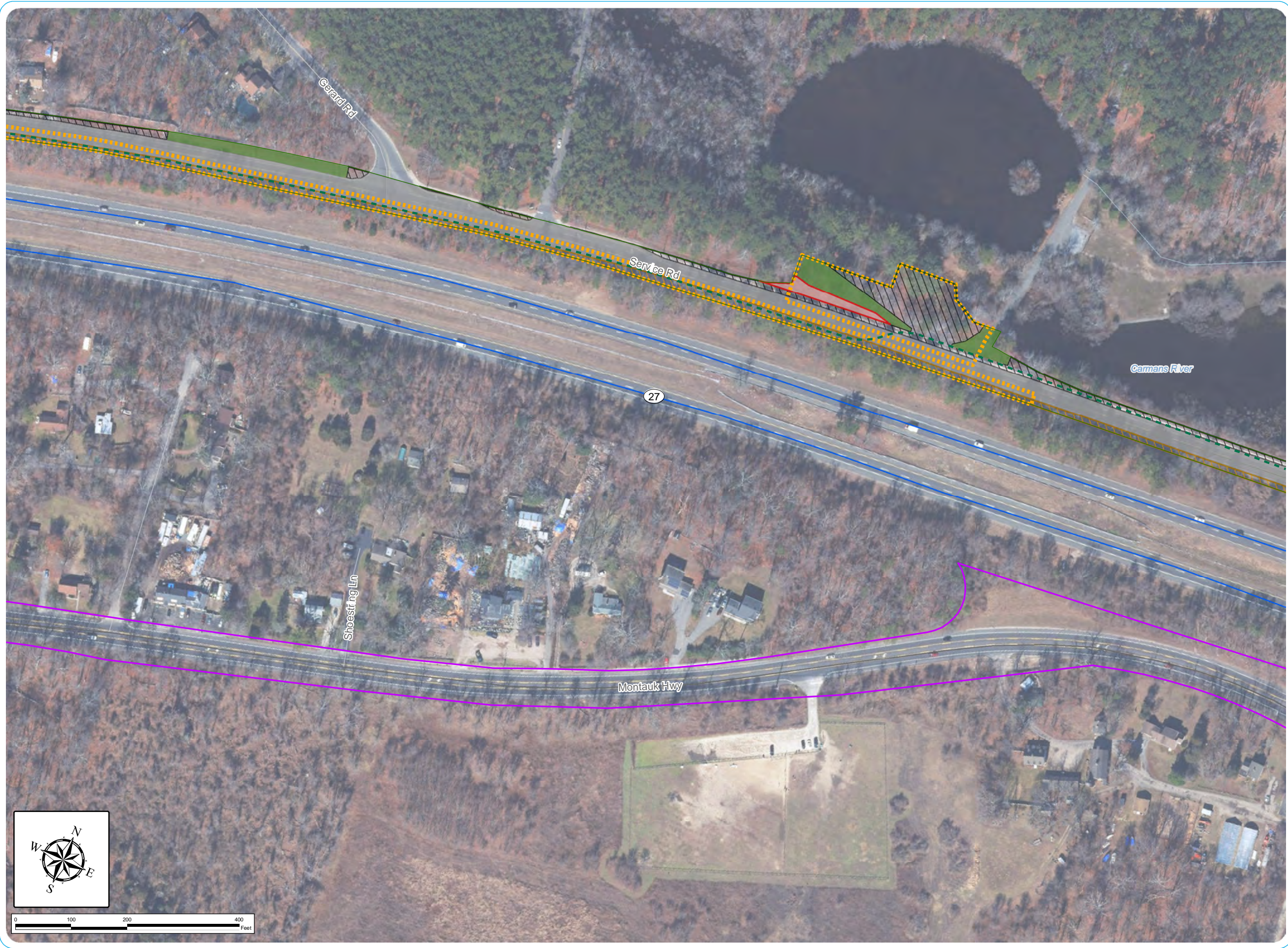
Town of Brookhaven, Suffolk County, New York

Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results

- Archaeological Reconnaissance Results
- Disturbed
 - Previously Tested
 - DOT Roadway
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
 - Off-Route Variations
 - Trenchless Footprint



Sheet 20 of 69
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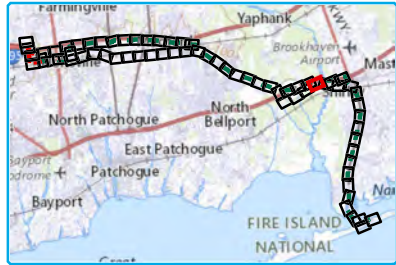
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results

Archaeological Reconnaissance Results

- Steep Slope
 - Disturbed
 - Potentially Undisturbed
 - Previously Tested
 - DOT Roadway
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
 - Off-Route Variations
 - Trenchless Footprint



Sheet 21 of 69
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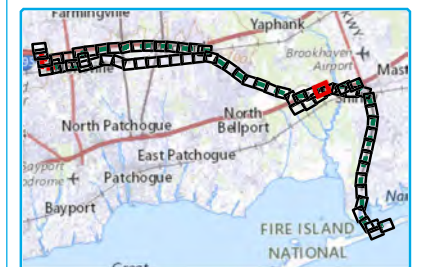
Town of Brookhaven, Suffolk County, New York

**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**



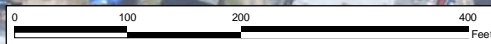
Archaeological Reconnaissance Results

-  Disturbed
 -  Potentially Undisturbed
 -  Previously Tested
 -  DOT Roadway
 -  Onshore Transmission Cable
- Onshore Transmission Cable Corridor
-  Preferred Route
 -  Off-Route Variations
 -  Trenchless Footprint



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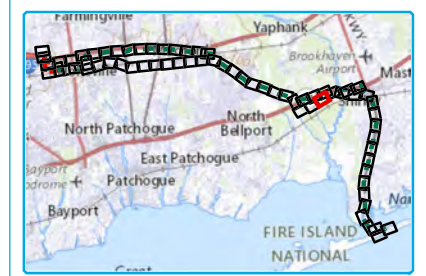


Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**

- Archaeological Reconnaissance Results
- Disturbed
 - Previously Tested
 - DOT Roadway
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
 - Off-Route Variations
 - Trenchless Footprint



Sheet 23 of 69

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



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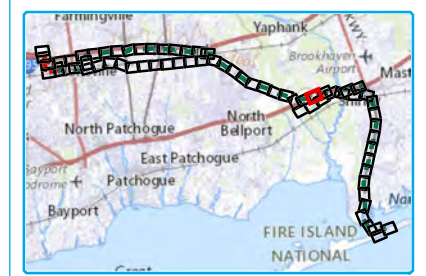


Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

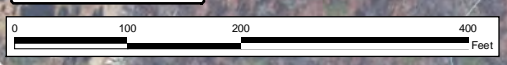
Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results

- Archaeological Reconnaissance Results
- Disturbed
 - Potentially Undisturbed
 - Previously Tested
 - DOT Roadway
 - Onshore Transmission Cable
 - Onshore Transmission Cable Corridor
 - Preferred Route



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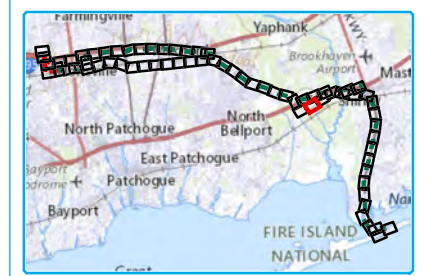


Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**

 Off-Route Variations



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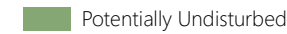


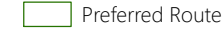

Sunrise Wind Farm

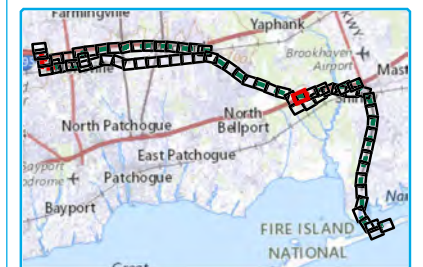
Town of Brookhaven, Suffolk County, New York

Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results



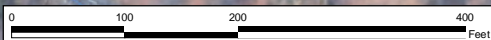
Archaeological Reconnaissance Results

-  Disturbed
 -  Potentially Undisturbed
 -  DOT Roadway
 -  Onshore Transmission Cable
- Onshore Transmission Cable Corridor
-  Preferred Route
 -  Off-Route Variations



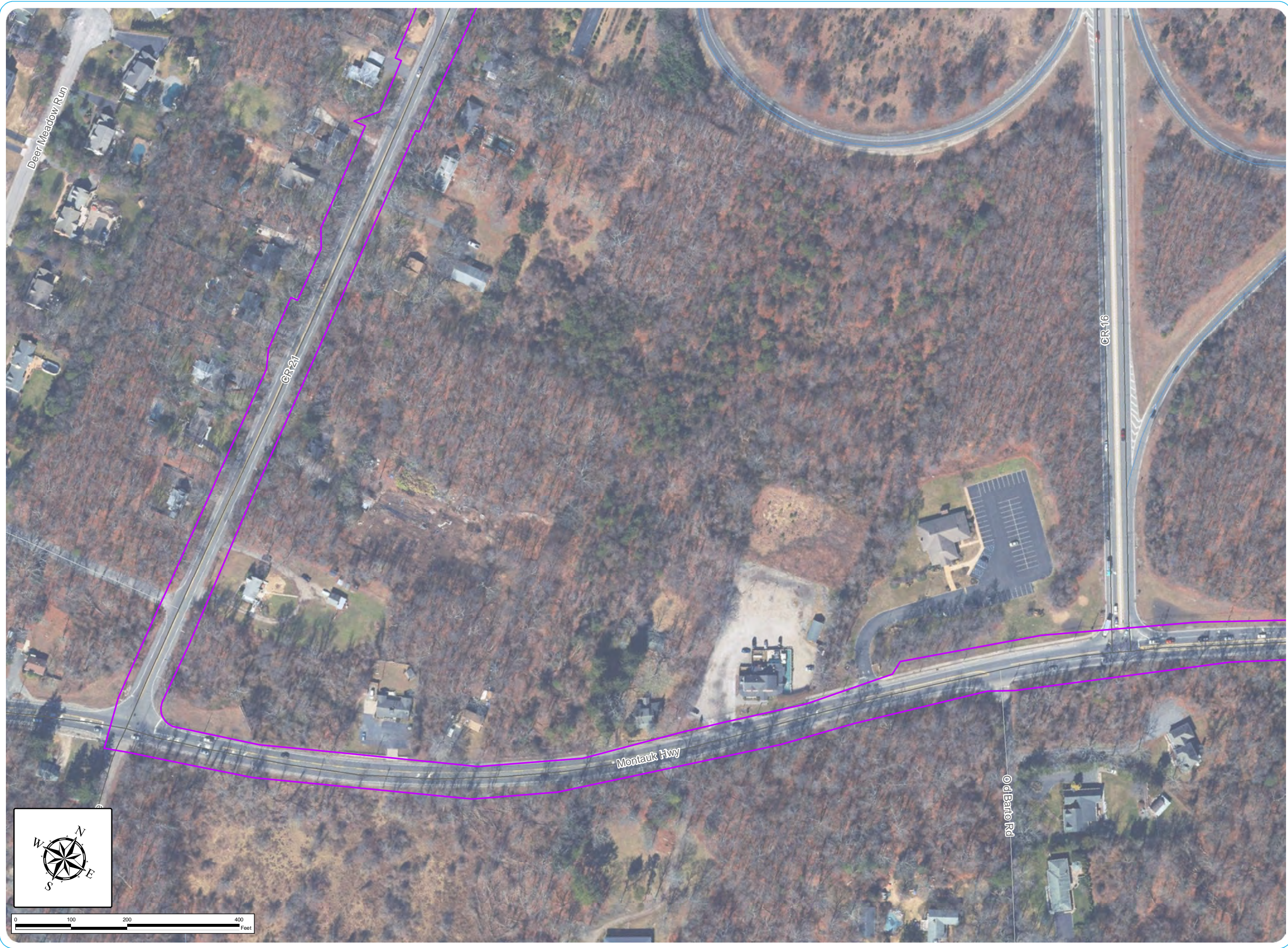
Sheet 26 of 69

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**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**

Off-Route Variations



Sheet 27 of 69
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale

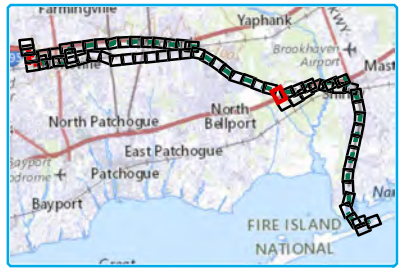


Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results

- Archaeological Reconnaissance Results
- Disturbed
 - Potentially Undisturbed
 - DOT Roadway
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
 - Off-Route Variations



Sheet 28 of 69
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale










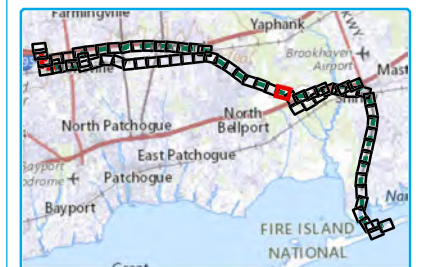
Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**

Archaeological Reconnaissance Results

-  Disturbed
-  Potentially Undisturbed
-  DOT Roadway
-  Onshore Transmission Cable
- Onshore Transmission Cable Corridor
-  Preferred Route



Sheet 29 of 69

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale

**Sunrise
Wind**




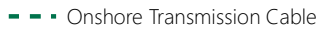

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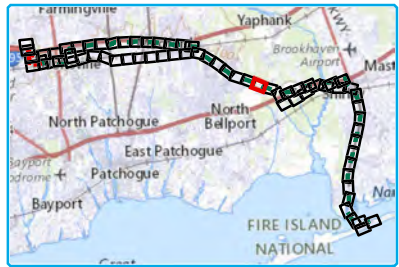


Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

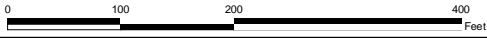
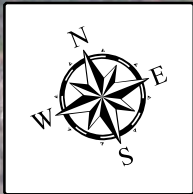
Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results

- Archaeological Reconnaissance Results
-  Disturbed
 -  Potentially Undisturbed
 -  DOT Roadway
 -  Onshore Transmission Cable
- Onshore Transmission Cable Corridor
-  Preferred Route



Sheet 30 of 69

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



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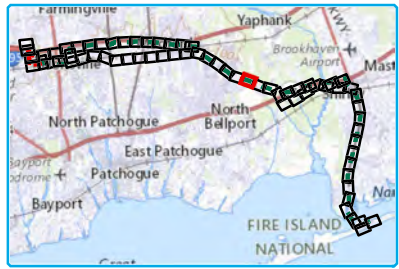


Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

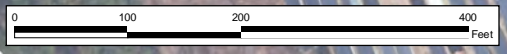
Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results

- Archaeological Reconnaissance Results
- Disturbed
 - Potentially Undisturbed
 - DOT Roadway
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route



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Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale


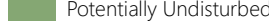

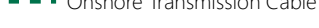



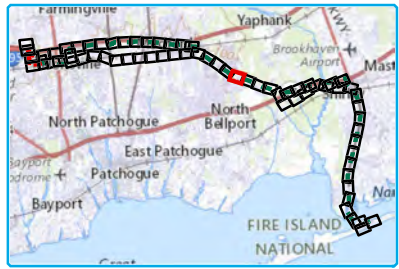


Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results

- Archaeological Reconnaissance Results
-  Disturbed
 -  Potentially Undisturbed
 -  DOT Roadway
 -  Onshore Transmission Cable
- Onshore Transmission Cable Corridor
-  Preferred Route







Sheet 32 of 69
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



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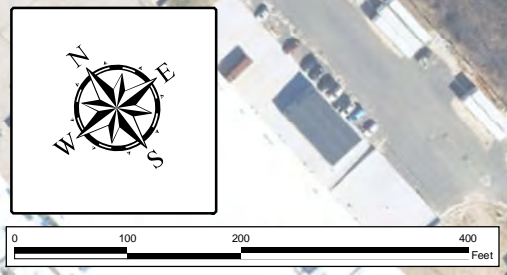
Town of Brookhaven, Suffolk County, New York

Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results

- Archaeological Reconnaissance Results
-  Disturbed
 -  DOT Roadway
 -  Onshore Transmission Cable
- Onshore Transmission Cable Corridor
-  Preferred Route



Sheet 33 of 69
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale







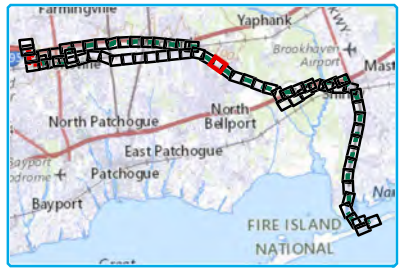


Sunrise Wind Farm

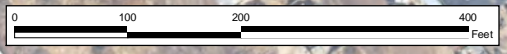
Town of Brookhaven, Suffolk County, New York

Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results

- Archaeological Reconnaissance Results
-  Disturbed
 -  DOT Roadway
 -  Onshore Transmission Cable
- Onshore Transmission Cable Corridor
-  Preferred Route



Sheet 34 of 69
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale








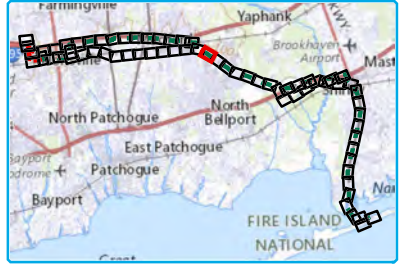


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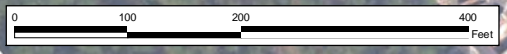
Town of Brookhaven, Suffolk County, New York

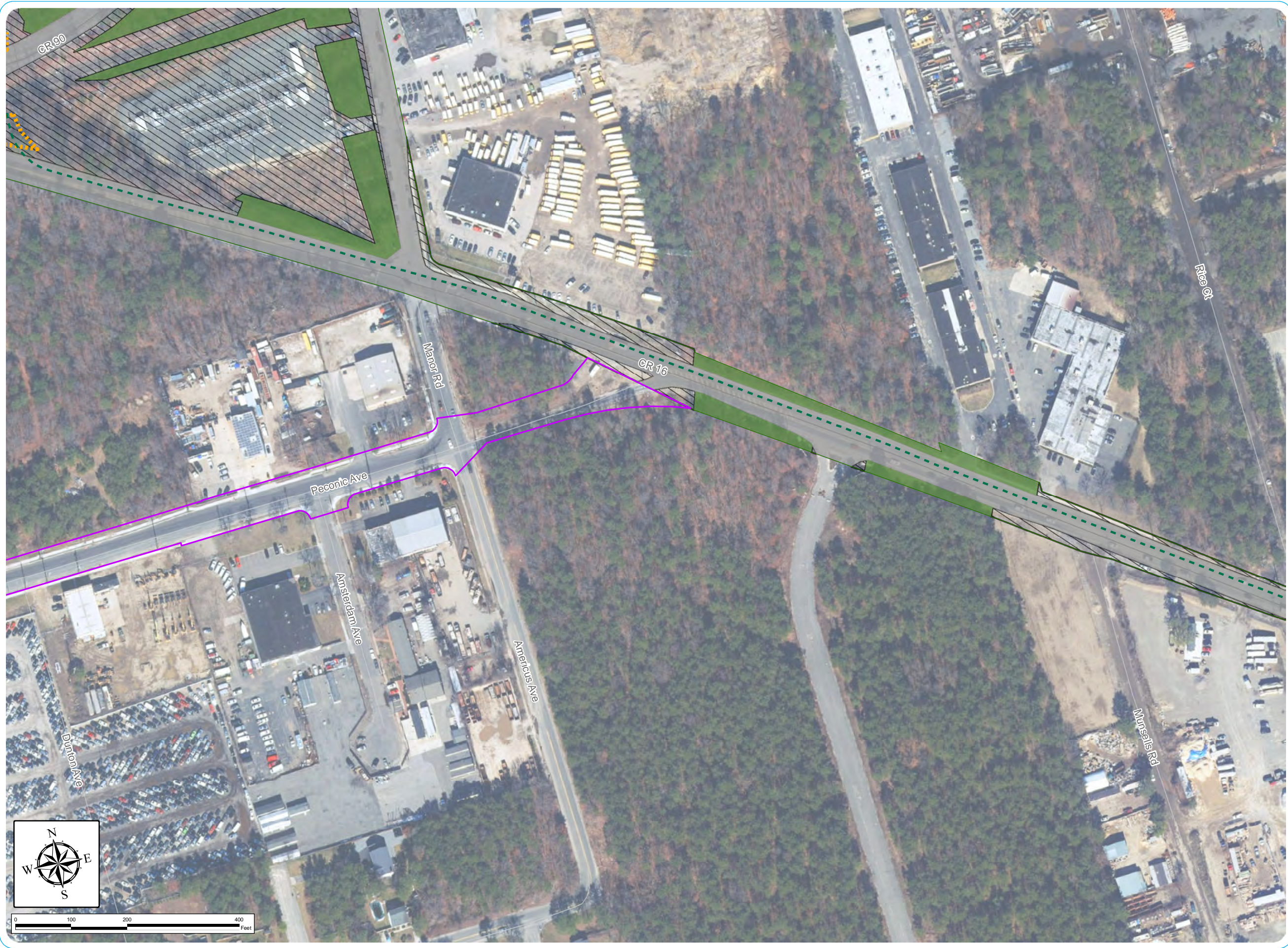
Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results

- Archaeological Reconnaissance Results
-  Disturbed
 -  Potentially Undisturbed
 -  DOT Roadway
 -  Onshore Transmission Cable
- Onshore Transmission Cable Corridor
-  Preferred Route



Sheet 35 of 69
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale





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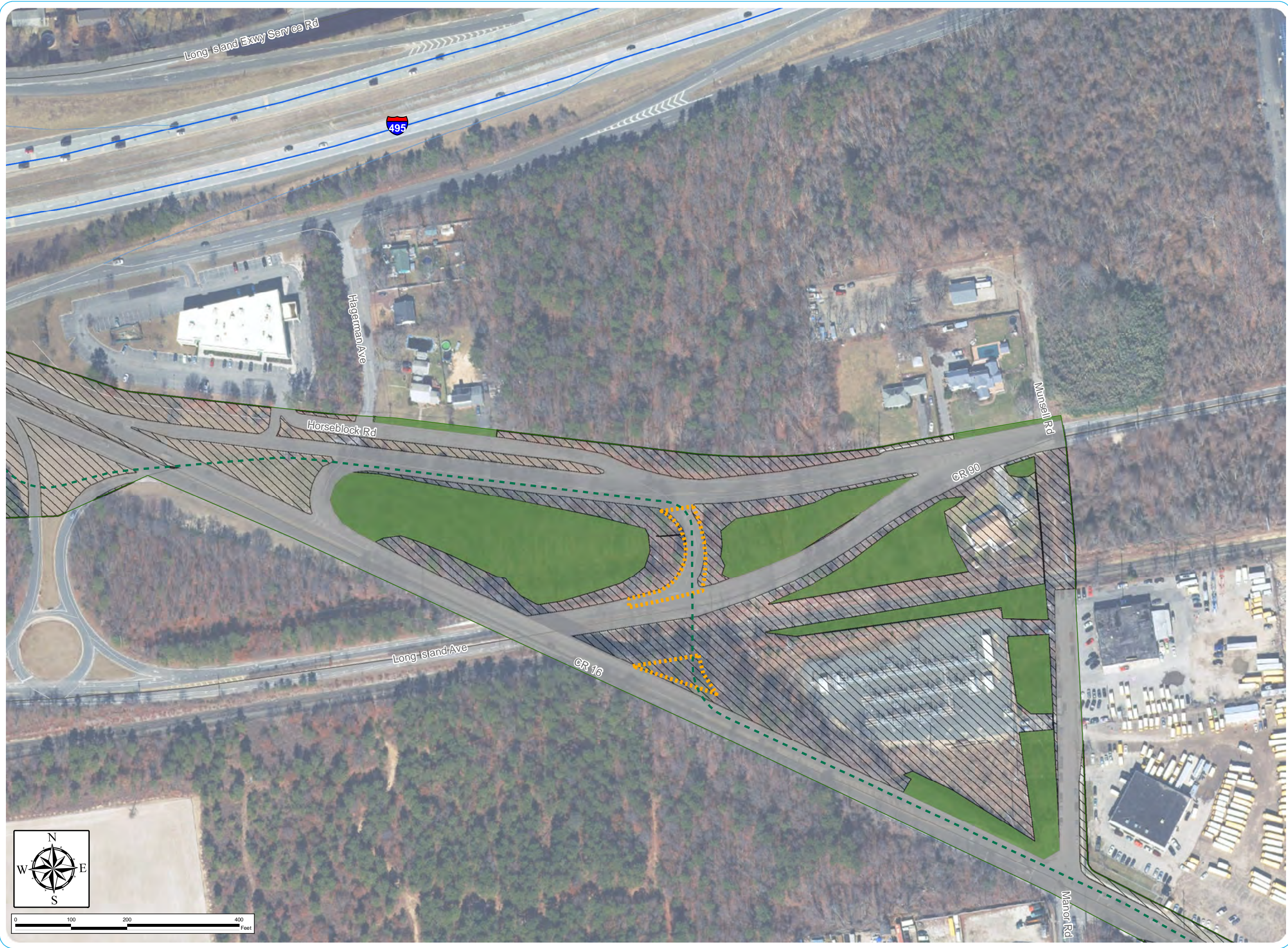
Town of Brookhaven, Suffolk County, New York

Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results

- Archaeological Reconnaissance Results
- Disturbed
 - Potentially Undisturbed
 - DOT Roadway
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
 - Off-Route Variations
 - Trenchless Footprint



Sheet 36 of 69
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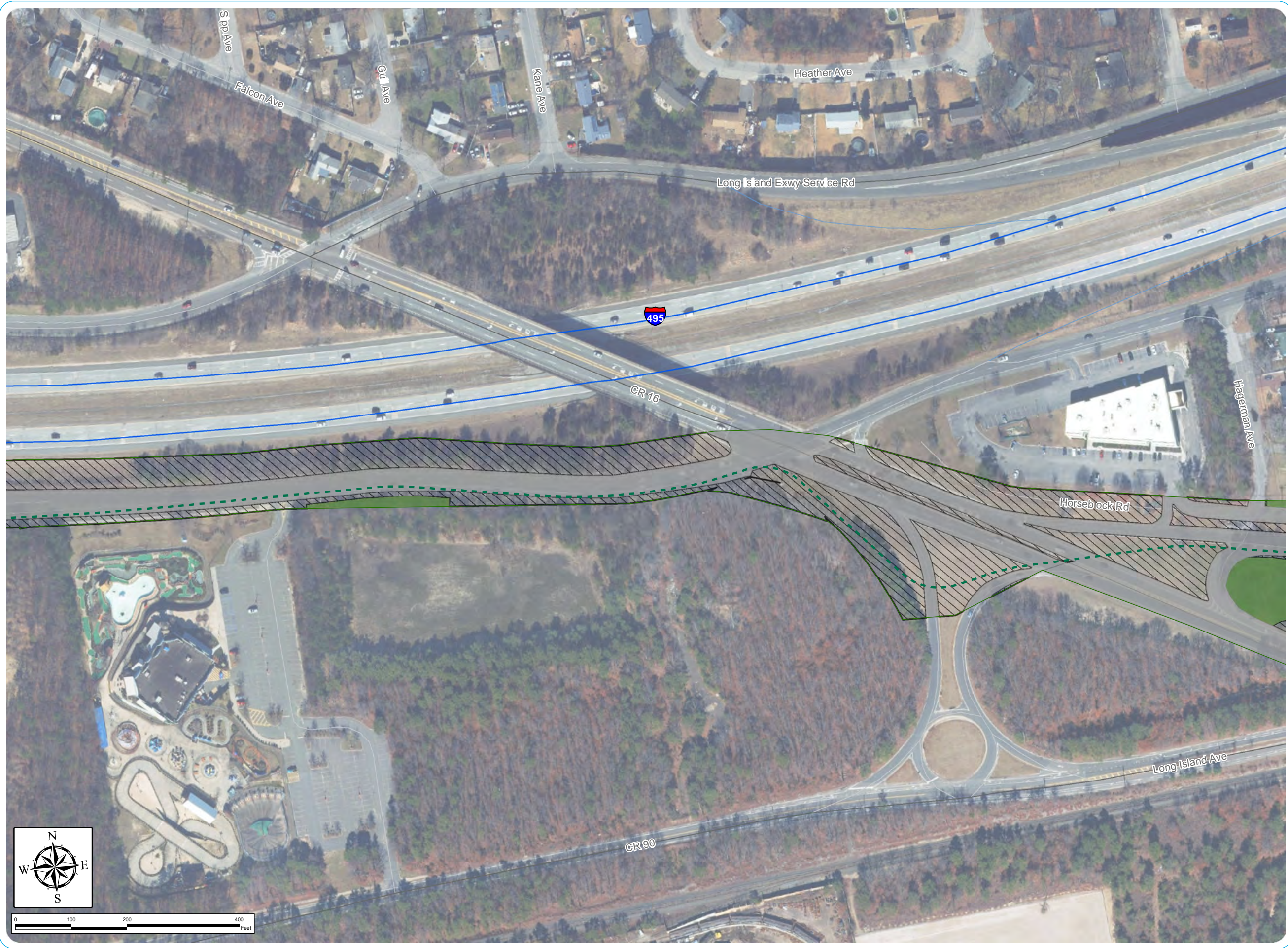
Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results

- Archaeological Reconnaissance Results
- Disturbed
 - Potentially Undisturbed
 - DOT Roadway
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
 - Trenchless Footprint



Sheet 37 of 69
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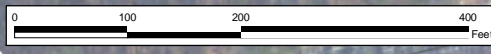
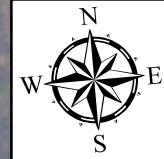
Town of Brookhaven, Suffolk County, New York

Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results

- Archaeological Reconnaissance Results
- Disturbed
 - Potentially Undisturbed
 - DOT Roadway
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route



Sheet 38 of 69
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale








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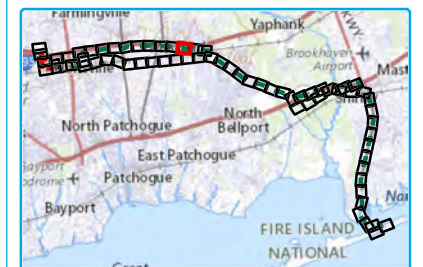
Town of Brookhaven,
Suffolk County, New York

**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**



Archaeological Reconnaissance Results

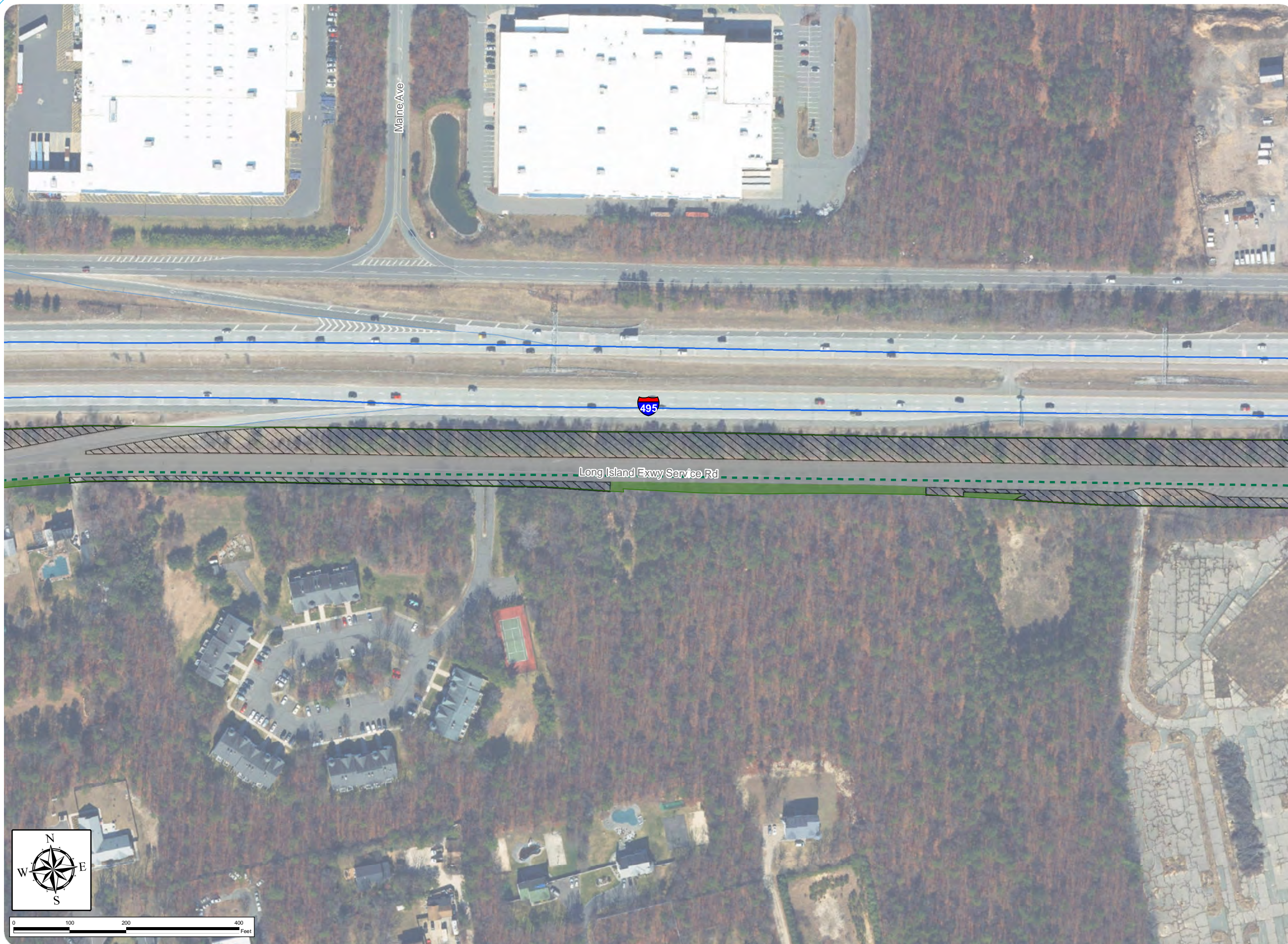
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-  Potentially Undisturbed
-  DOT Roadway
-  Onshore Transmission Cable
- Onshore Transmission Cable Corridor
-  Preferred Route



Sheet 39 of 69

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale

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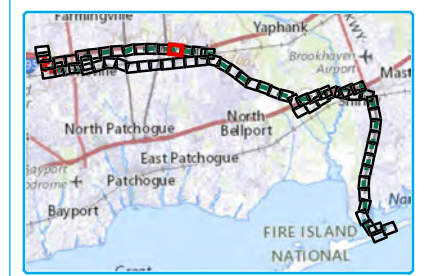


Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

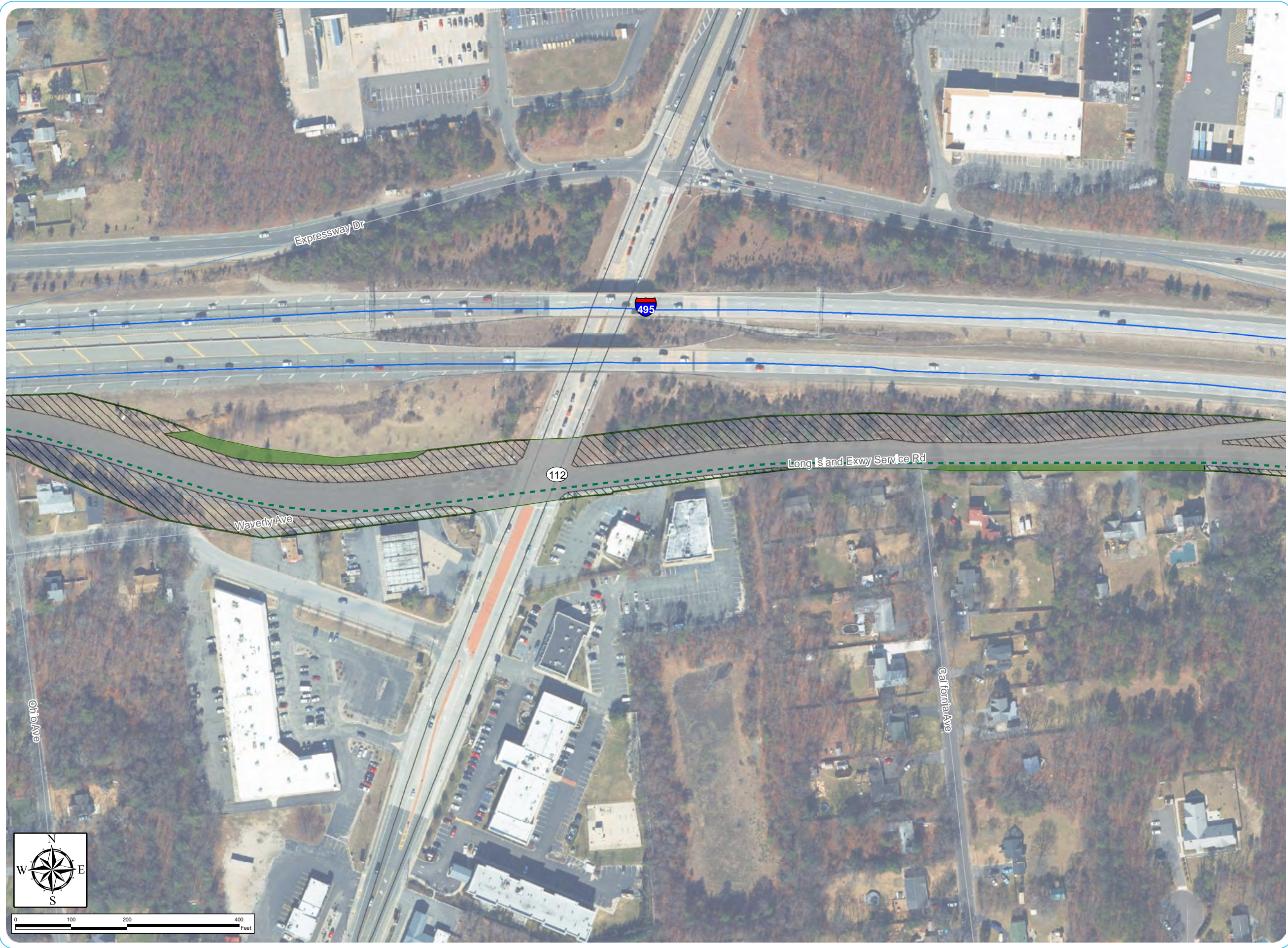
Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results

- Archaeological Reconnaissance Results
- Disturbed
 - Potentially Undisturbed
 - DOT Roadway
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route



Sheet 40 of 69

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale








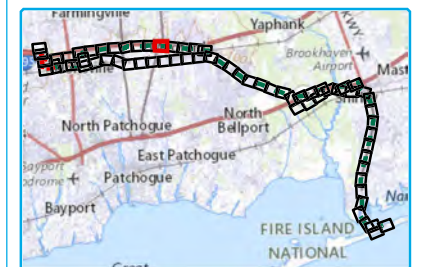
Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**

Archaeological Reconnaissance Results

-  Disturbed
-  Potentially Undisturbed
-  DOT Roadway
-  Onshore Transmission Cable
- Onshore Transmission Cable Corridor
-  Preferred Route



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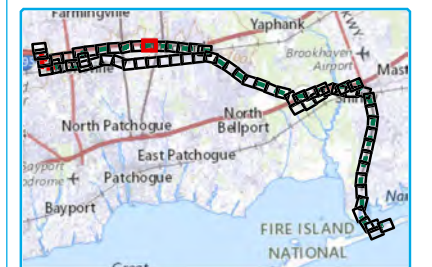
Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**

Archaeological Reconnaissance Results

-  Disturbed
 -  DOT Roadway
 -  Onshore Transmission Cable
- Onshore Transmission Cable Corridor
-  Preferred Route

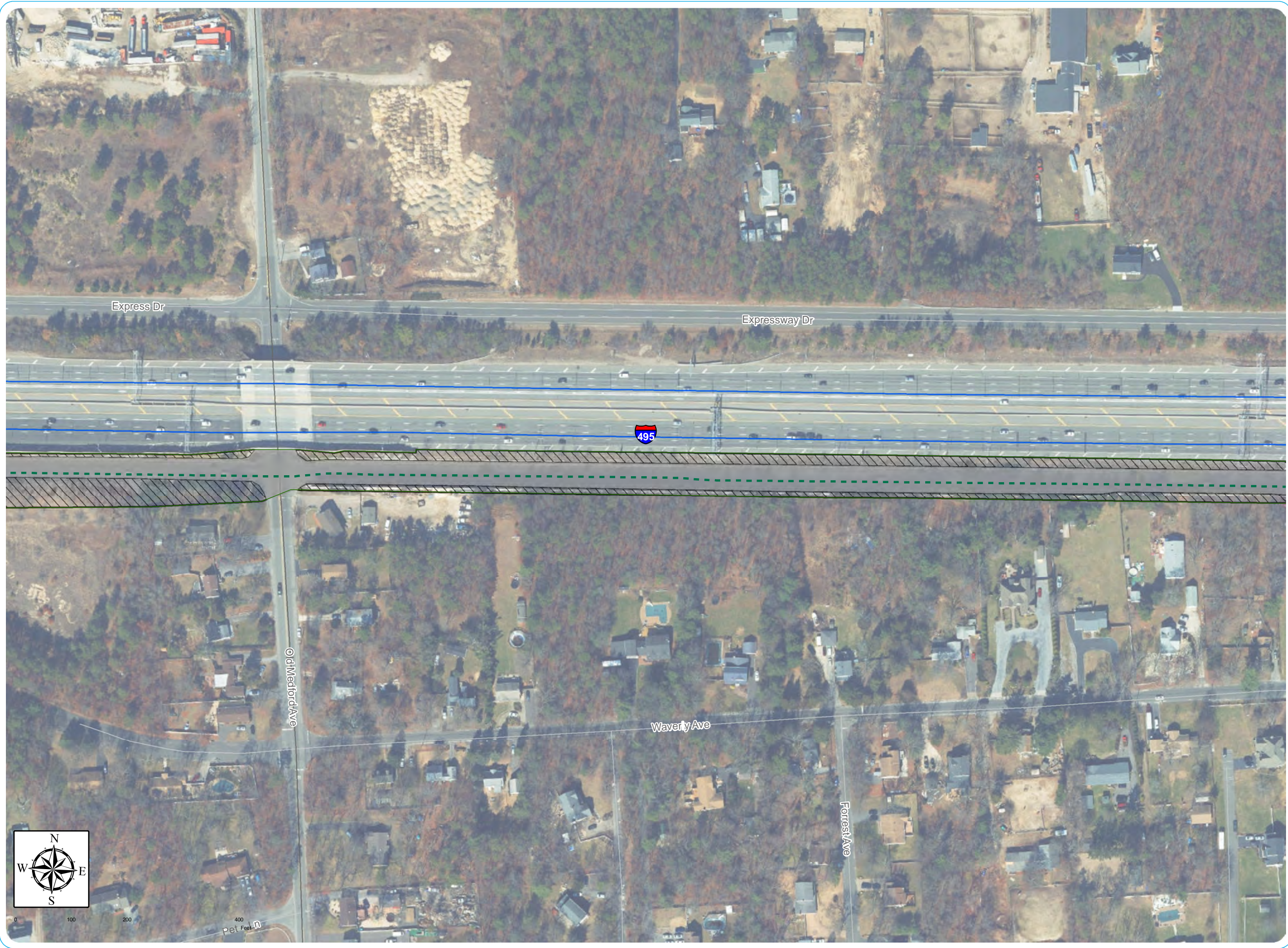


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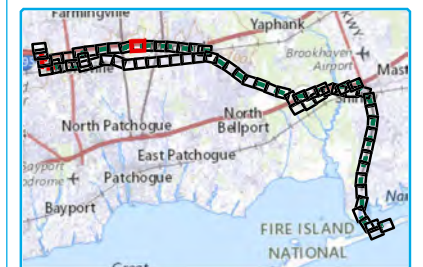
Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**

Archaeological Reconnaissance Results

-  Disturbed
 -  DOT Roadway
 -  Onshore Transmission Cable
- Onshore Transmission Cable Corridor
-  Preferred Route



Sheet 43 of 69

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale

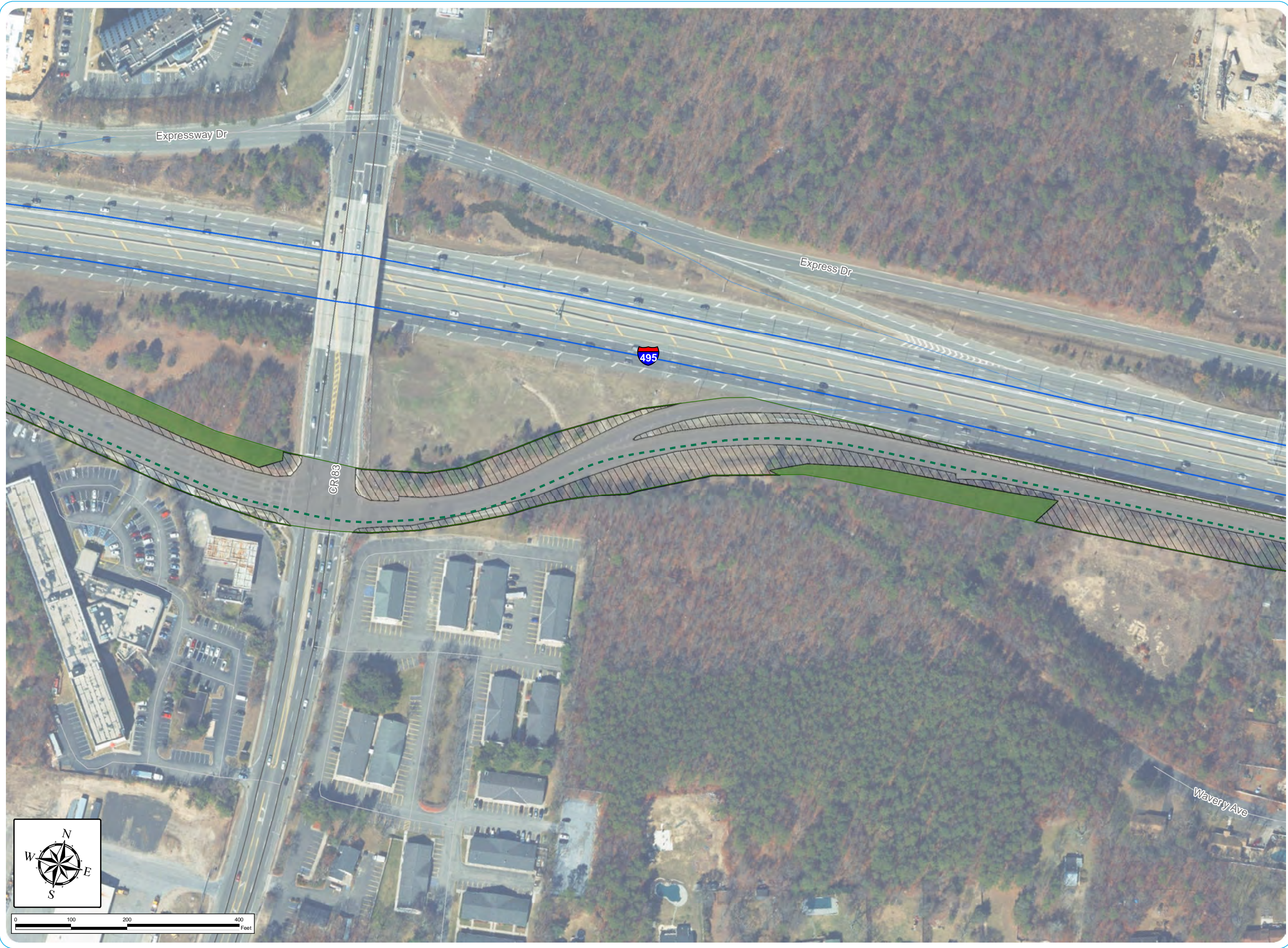
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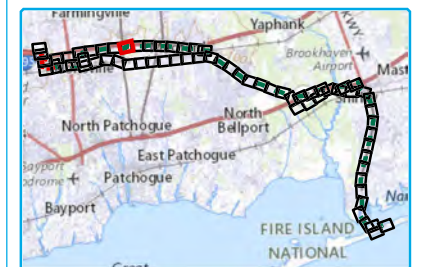
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 2.2-1:
Archaeological Reconnaissance and Desktop Assessment Results



- Archaeological Reconnaissance Results
- Disturbed
 - Potentially Undisturbed
 - DOT Roadway
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route

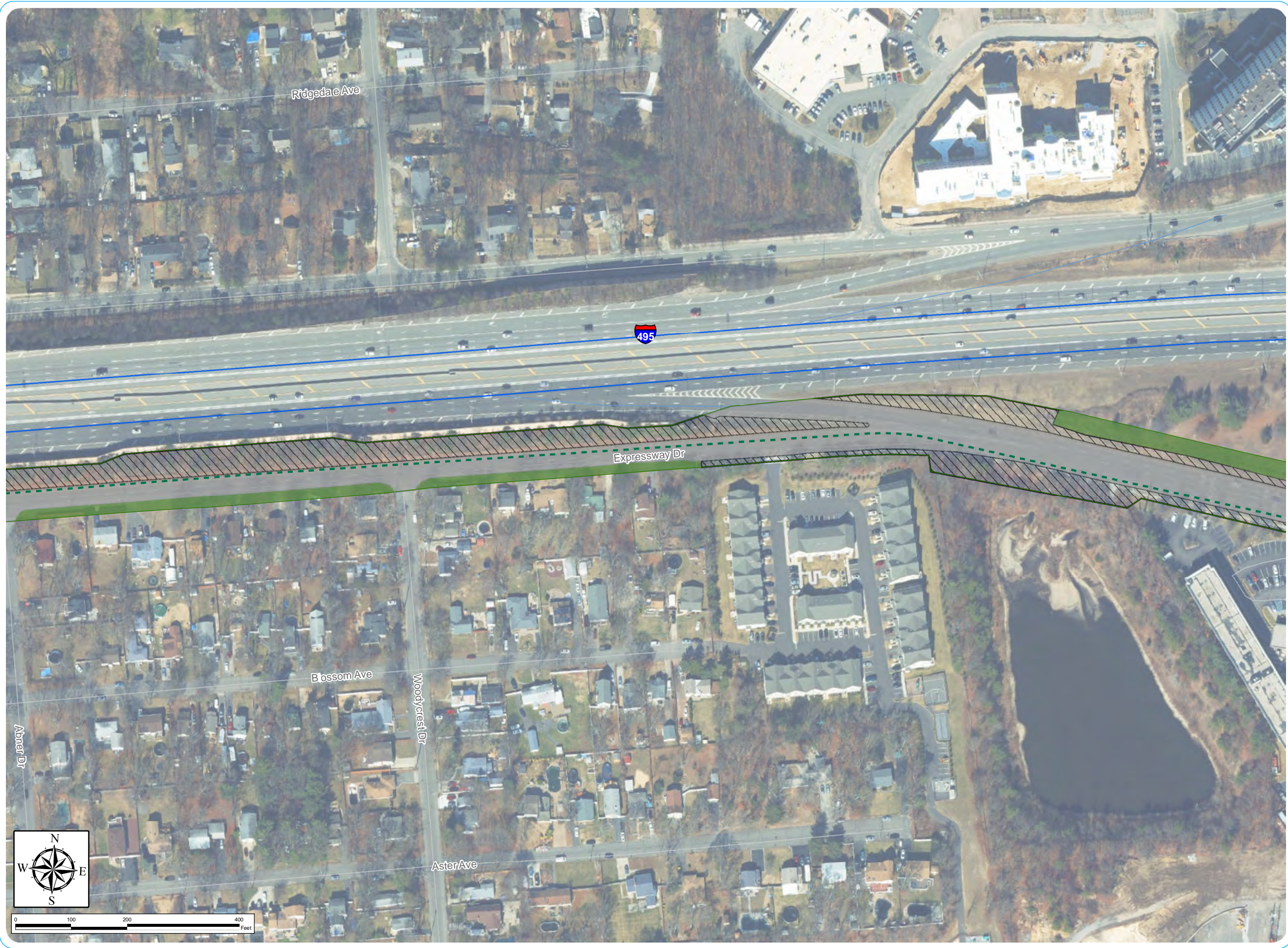


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Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale

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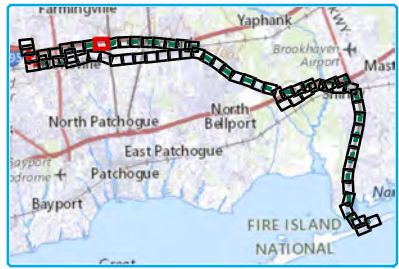


Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results

- Archaeological Reconnaissance Results
- Disturbed
 - Potentially Undisturbed
 - DOT Roadway
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route



Sheet 45 of 69
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale

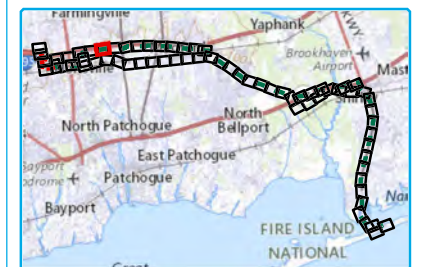
Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**



- Archaeological Reconnaissance Results
- Disturbed
 - Potentially Undisturbed
 - DOT Roadway
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route



Sheet 46 of 69

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale

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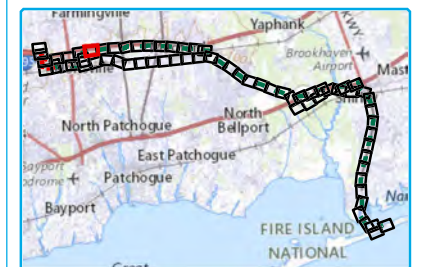
Town of Brookhaven, Suffolk County, New York

Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results



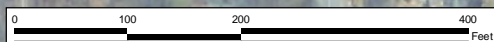
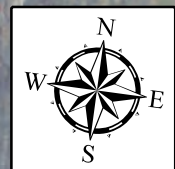
Archaeological Reconnaissance Results

- Disturbed
- Potentially Undisturbed
- DOT Roadway
- Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route



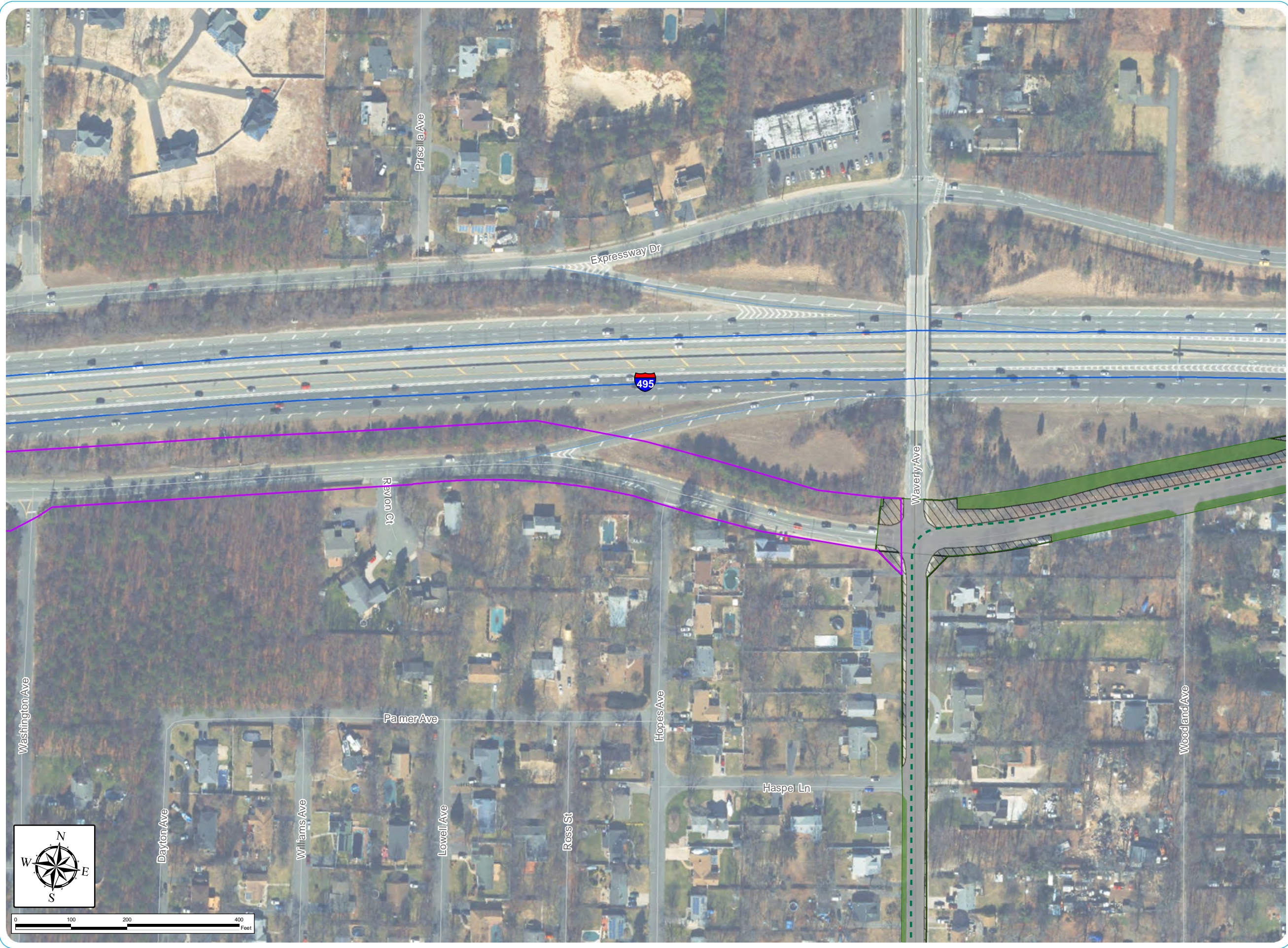
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Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results

- Archaeological Reconnaissance Results
- Disturbed
 - Potentially Undisturbed
 - DOT Roadway
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
 - Off-Route Variations



Sheet 48 of 69
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale

Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results

Off-Route Variations




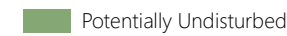




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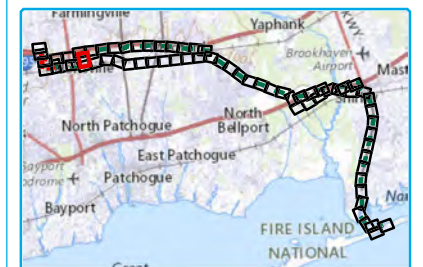
Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**

Archaeological Reconnaissance Results

-  Disturbed
 -  Potentially Undisturbed
 -  DOT Roadway
 -  Onshore Transmission Cable
- Onshore Transmission Cable Corridor
-  Preferred Route
 -  Off-Route Variations



Sheet 50 of 69

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



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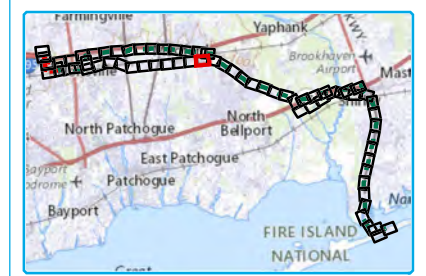


Sunrise Wind Farm

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**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**

- Archaeological Reconnaissance Results
- Disturbed
 - DOT Roadway
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
 - Off-Route Variations
 - Trenchless Footprint



Sheet 51 of 69

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale

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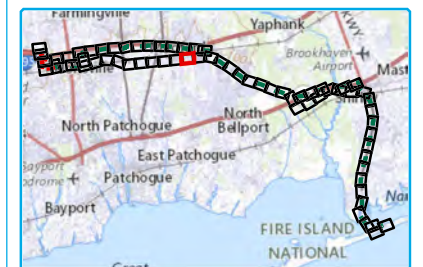


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**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**

 Off-Route Variations



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**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**

 Off-Route Variations



Sheet 53 of 69

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



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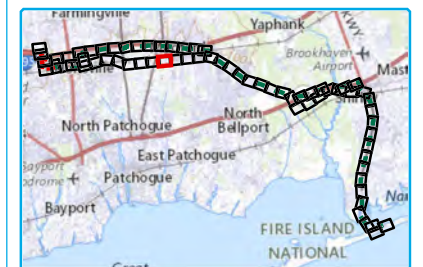


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Town of Brookhaven,
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**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**

 Off-Route Variations

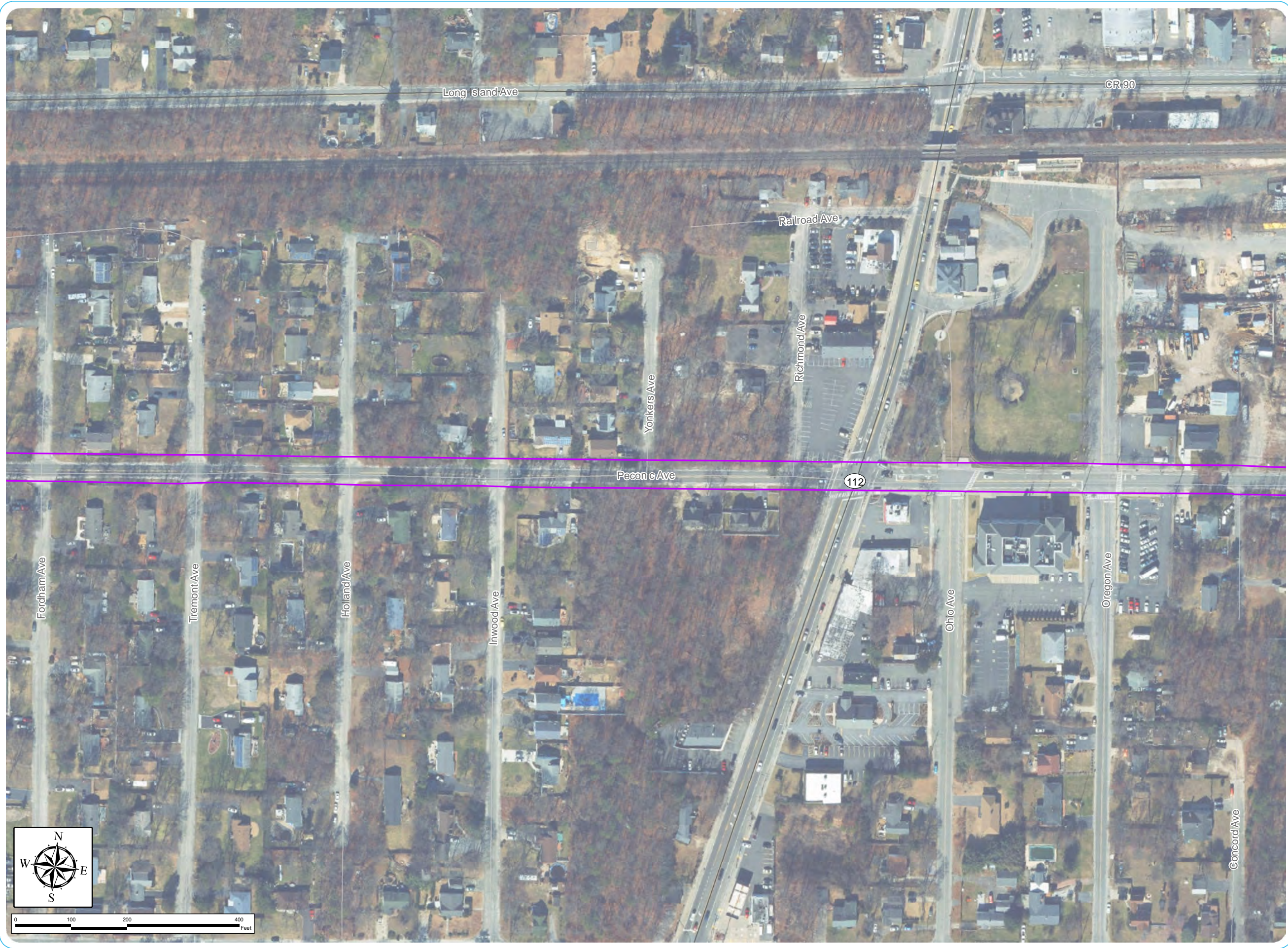


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**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**

 Off-Route Variations



Sheet 55 of 69

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



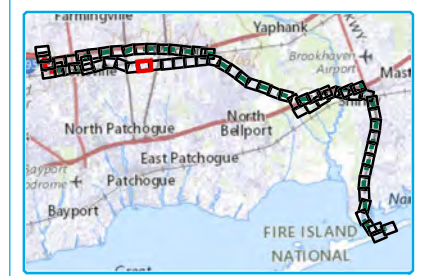
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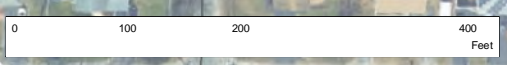
Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results

 Off-Route Variations



Sheet 56 of 69

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



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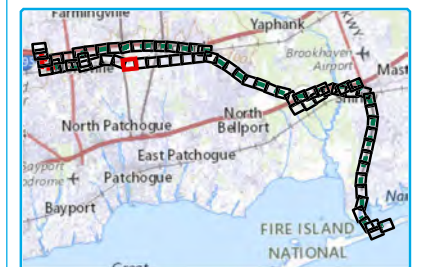
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Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**

 Off-Route Variations

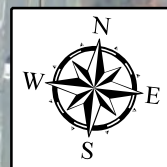


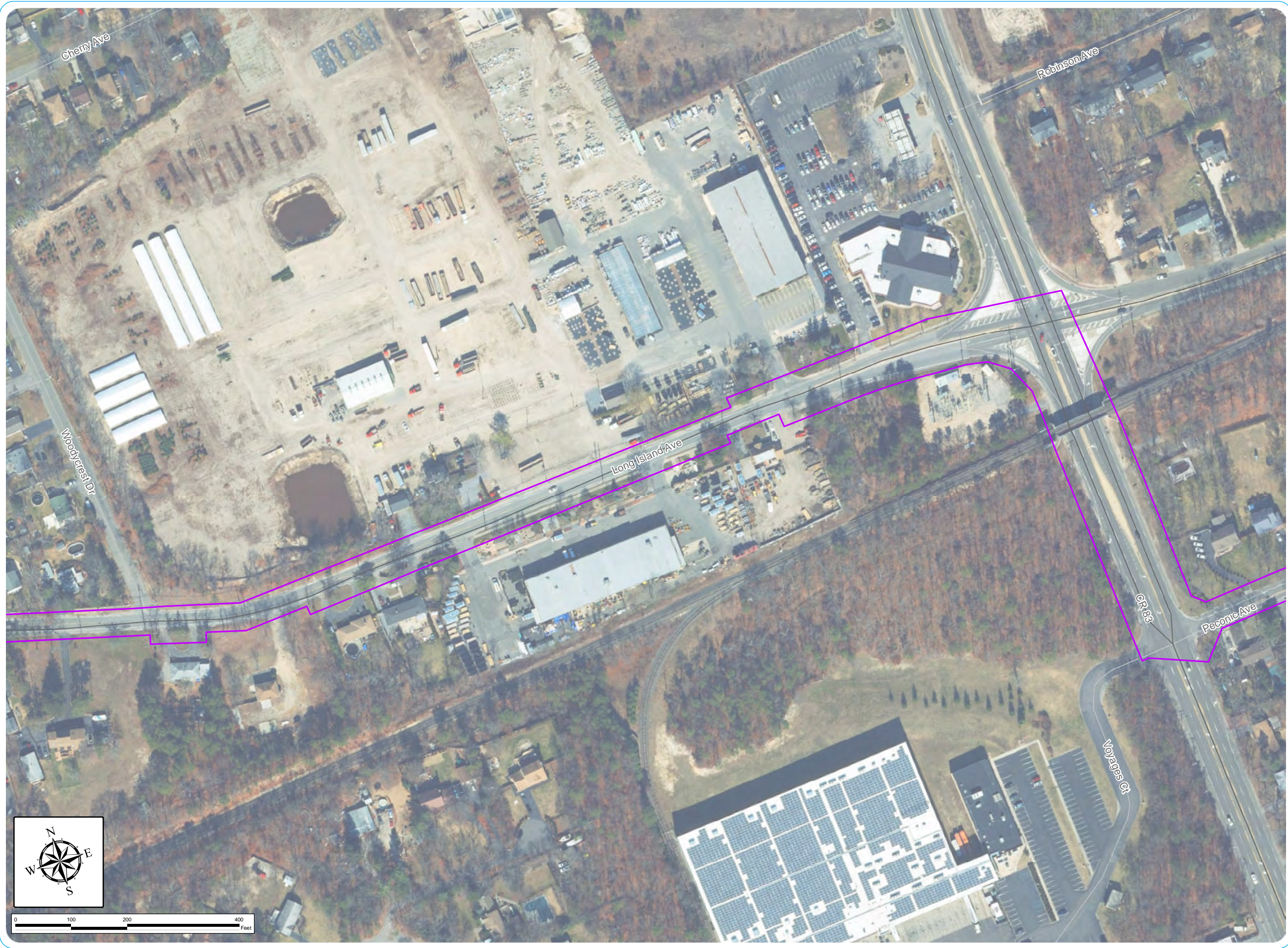
Sheet 57 of 69

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




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Town of Brookhaven, Suffolk County, New York

Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results

 Off-Route Variations



Sheet 58 of 69
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale

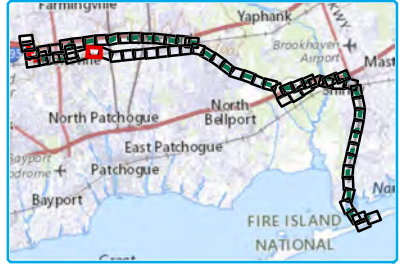


Sunrise Wind Farm

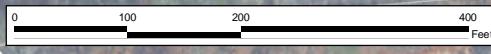
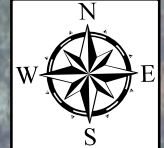
Town of Brookhaven, Suffolk County, New York

Figure 2.2-1:
Archaeological Reconnaissance and Desktop Assessment Results

Off-Route Variations



Sheet 59 of 69
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


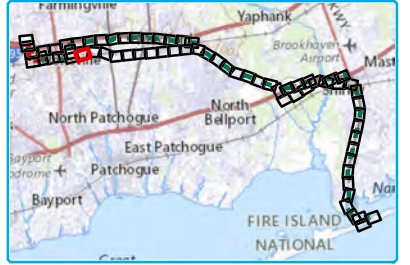


Sunrise Wind Farm

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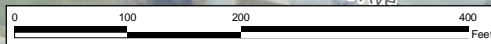
**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**

 Off-Route Variations



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Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results

- Archaeological Reconnaissance Results
- Disturbed
 - Potentially Undisturbed
 - DOT Roadway
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
 - Off-Route Variations

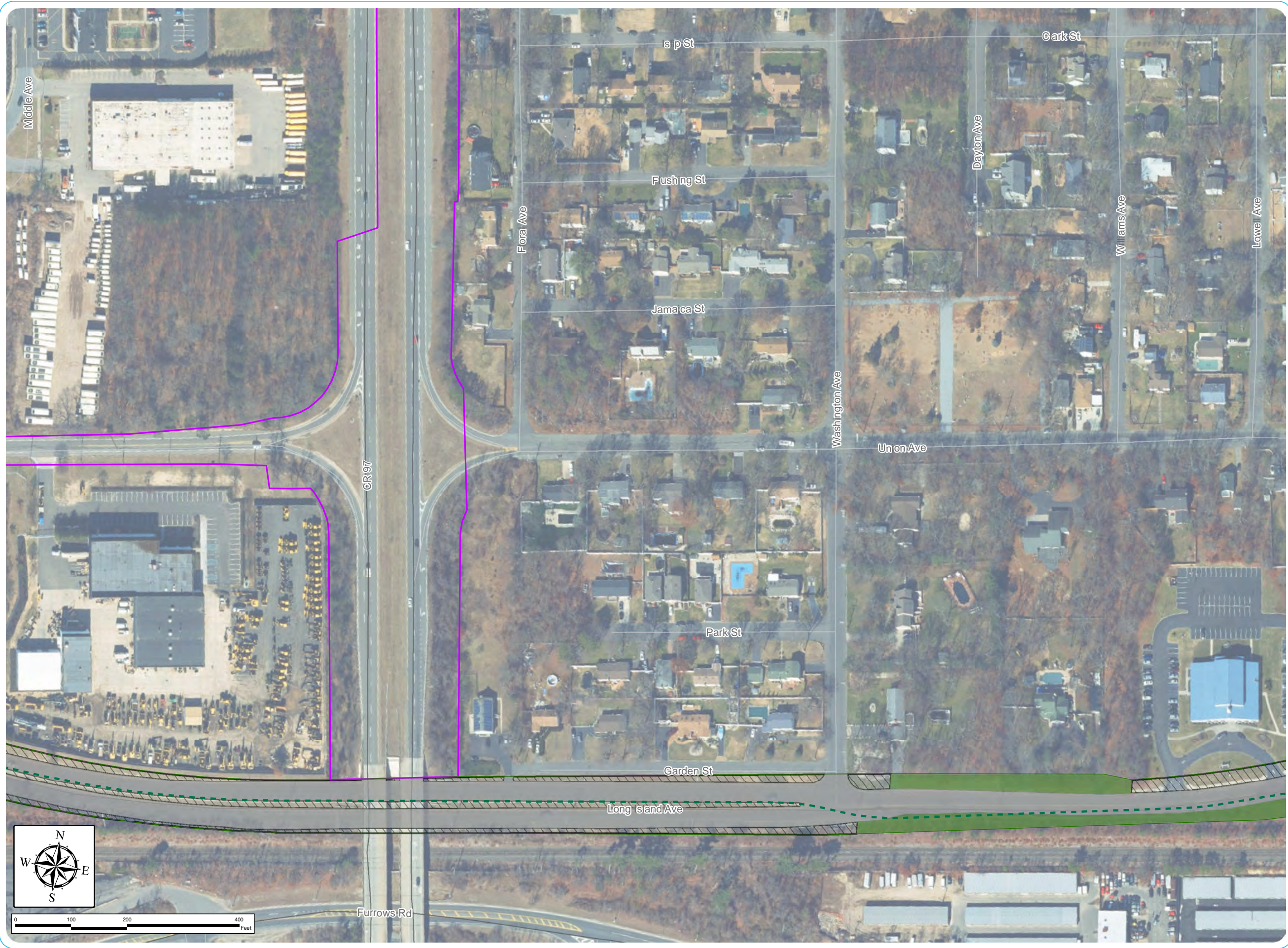


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Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results



- Archaeological Reconnaissance Results
- Disturbed
 - Potentially Undisturbed
 - DOT Roadway
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
 - Off-Route Variations



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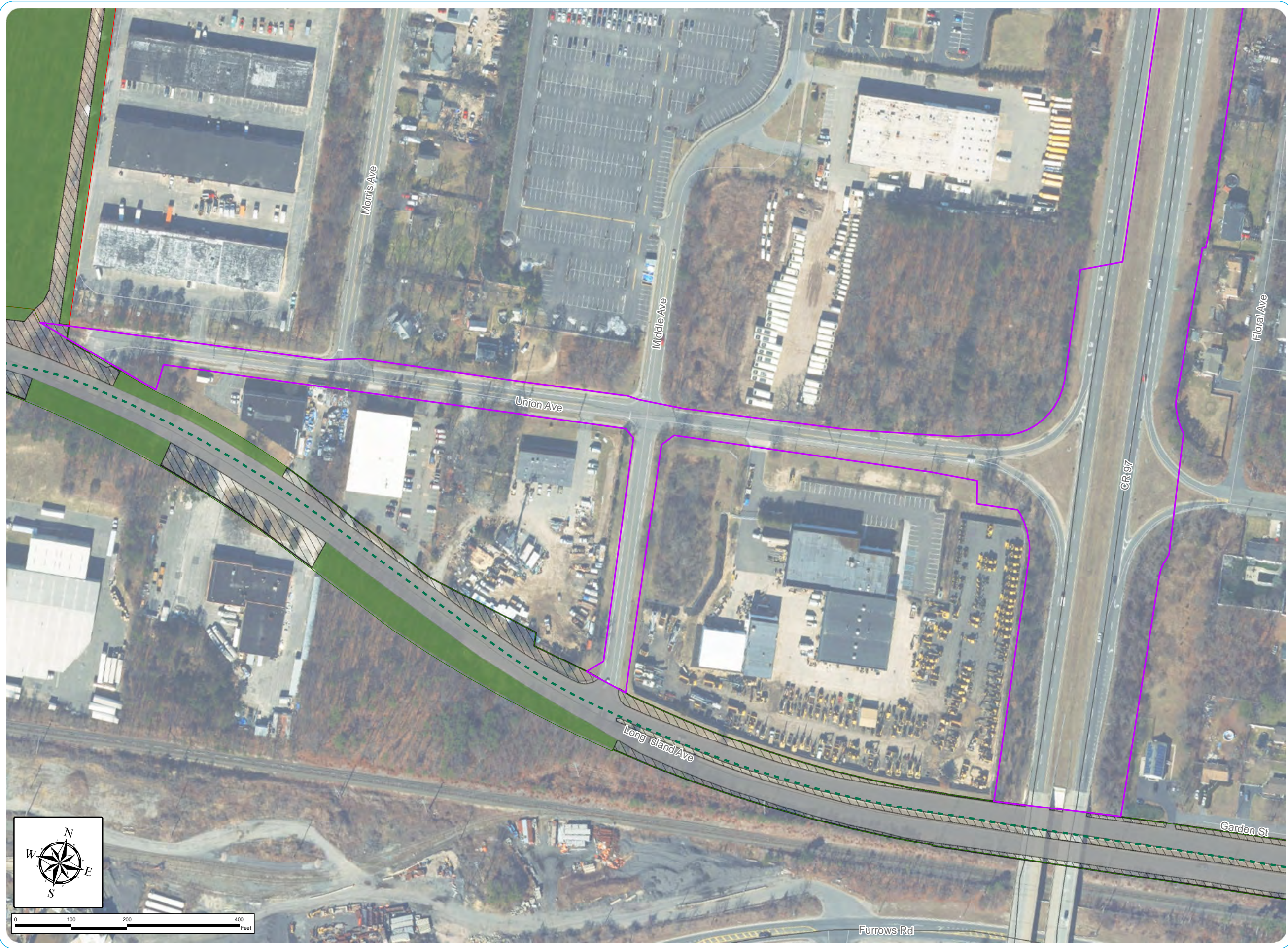
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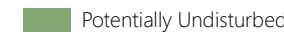





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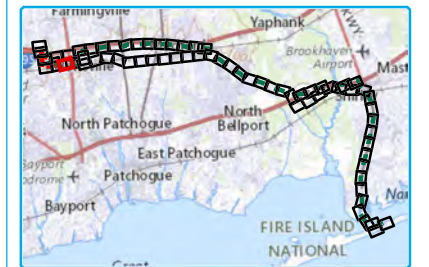
Town of Brookhaven,
Suffolk County, New York

**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**



Archaeological Reconnaissance Results

-  Disturbed
-  Potentially Undisturbed
-  DOT Roadway
-  Onshore Transmission Cable
- Onshore Transmission Cable Corridor
-  Preferred Route
-  Onshore Interconnection Cable Corridor
-  Off-Route Variations



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Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



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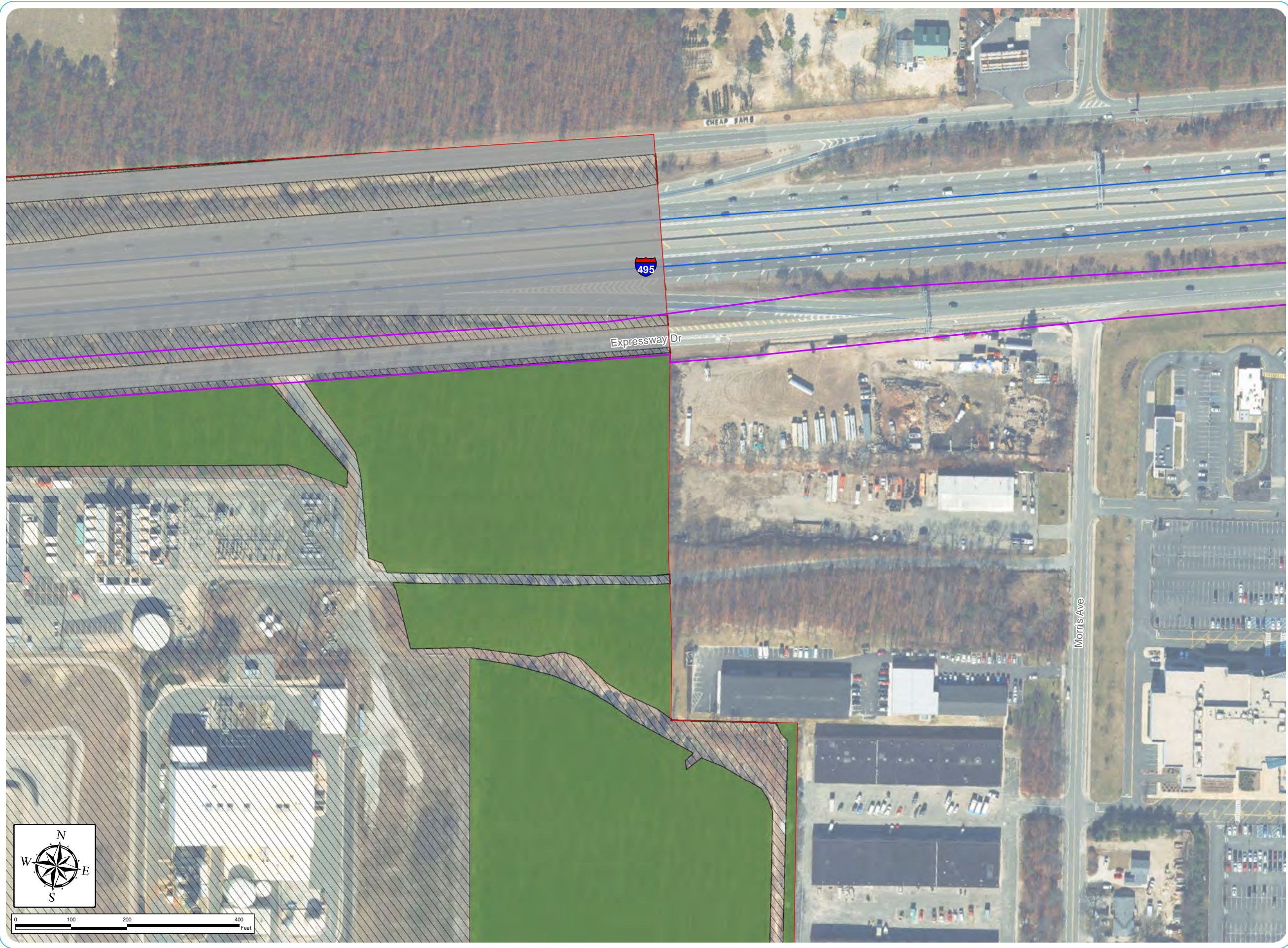
Town of Brookhaven, Suffolk County, New York

Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results

- Archaeological Reconnaissance Results
- Disturbed
 - Potentially Undisturbed
 - DOT Roadway
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
 - Onshore Interconnection Cable Corridor
 - OnCS-DC
 - Off-Route Variations
 - Onshore Interconnection Cable



Sheet 64 of 69
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale

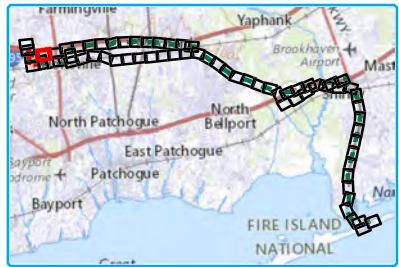


Sunrise Wind Farm

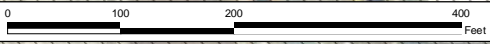
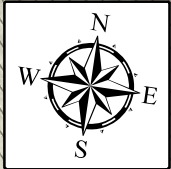
Town of Brookhaven,
Suffolk County, New York

**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**

- Archaeological Reconnaissance Results
- Disturbed
 - Potentially Undisturbed
 - DOT Roadway
- Onshore Transmission Cable Corridor
- Onshore Interconnection Cable Corridor
 - Off-Route Variations



Sheet 65 of 69
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



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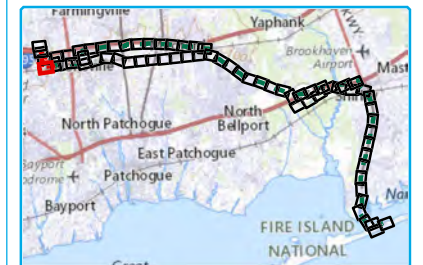
Town of Brookhaven,
Suffolk County, New York

**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**



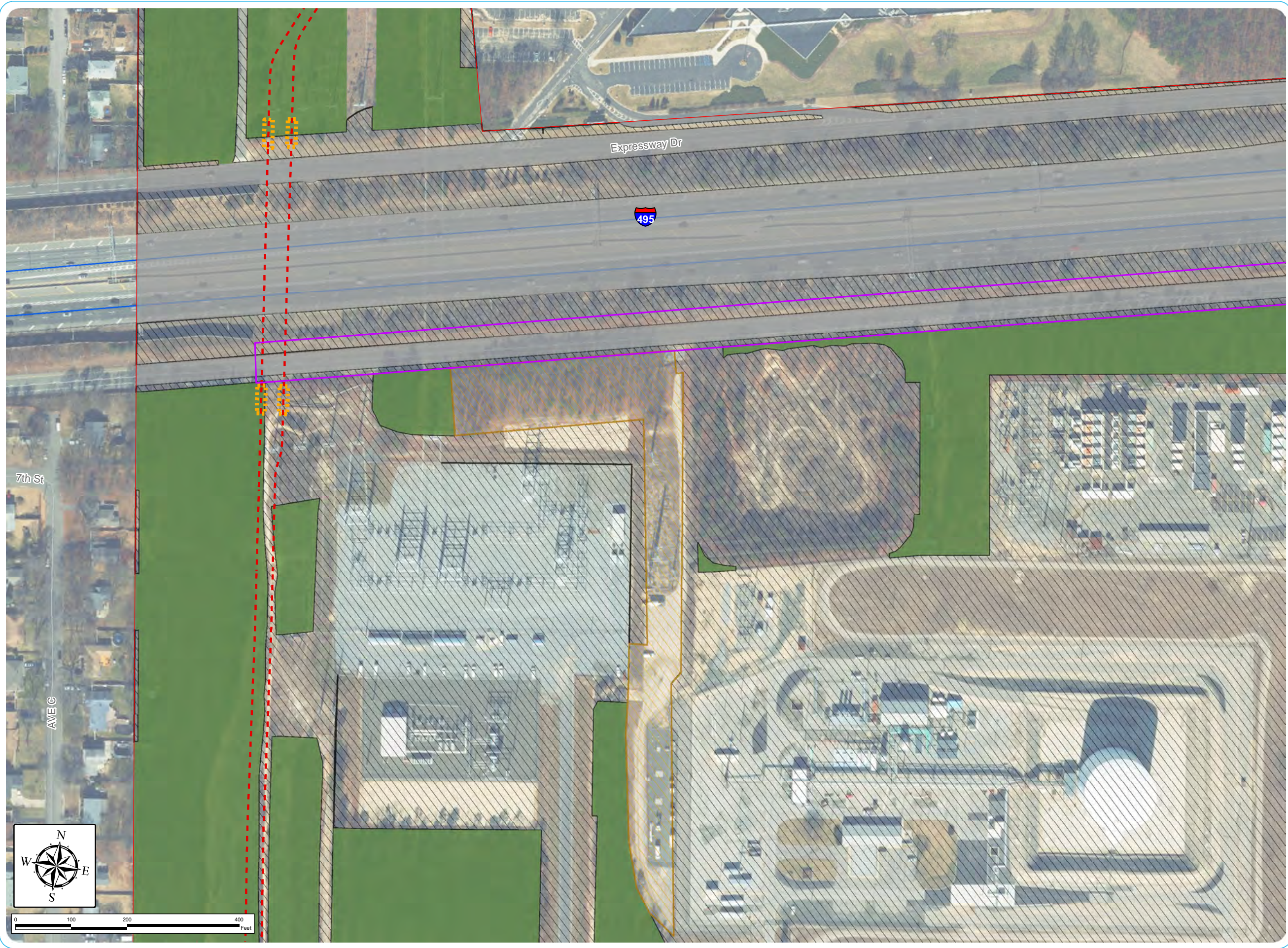
Archaeological Reconnaissance Results

- Steep Slope
- Disturbed
- Potentially Undisturbed
- Previously Tested
- DOT Roadway
- Onshore Transmission Cable Corridor
- Onshore Interconnection Cable Corridor
- Onshore Interconnection Cable



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Town of Brookhaven, Suffolk County, New York

Figure 2.2-1: Archaeological Reconnaissance and Desktop Assessment Results

- Archaeological Reconnaissance Results
- Steep Slope
 - Disturbed
 - Potentially Undisturbed
 - Previously Tested
 - DOT Roadway
- Onshore Transmission Cable Corridor
- Onshore Interconnection Cable Corridor
 - Off-Route Variations
 - Onshore Interconnection Cable
 - Trenchless Footprint



Sheet 67 of 69
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale







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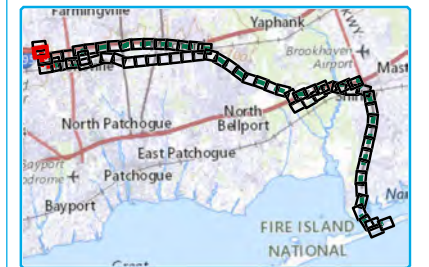
Town of Brookhaven,
Suffolk County, New York

**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**



Archaeological Reconnaissance Results

-  Disturbed
-  Potentially Undisturbed
-  DOT Roadway
- Onshore Transmission Cable Corridor
-  Onshore Interconnection Cable Corridor
-  Onshore Interconnection Cable
-  Trenchless Footprint



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**Figure 2.2-1:
Archaeological
Reconnaissance and
Desktop Assessment
Results**

Archaeological Reconnaissance Results

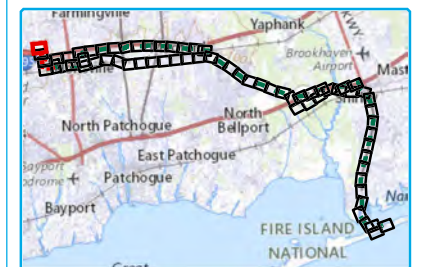
 Disturbed

 Potentially Undisturbed

Onshore Transmission Cable Corridor

 Onshore Interconnection Cable Corridor

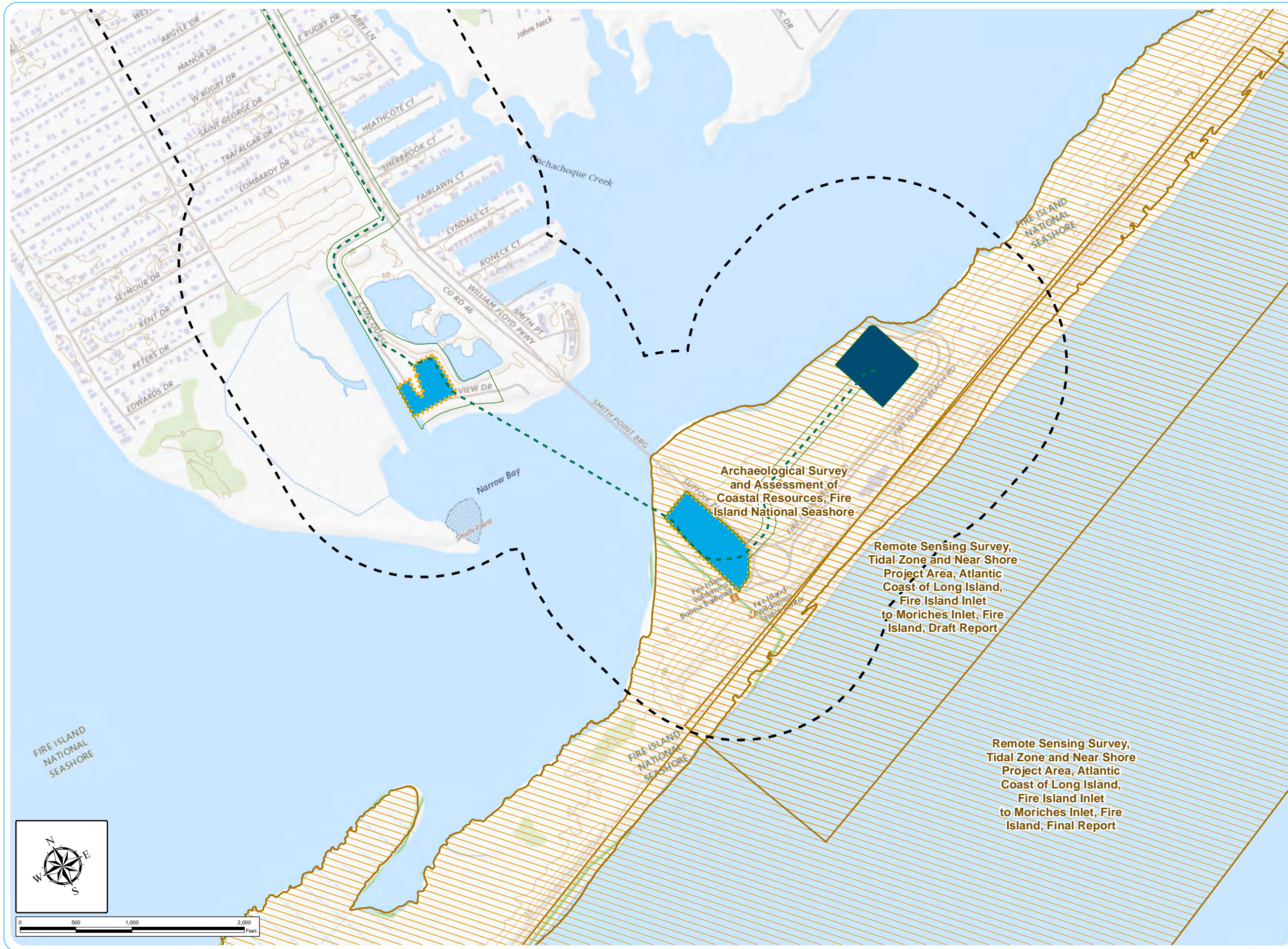
 Onshore Interconnection Cable



Sheet 69 of 69

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale





Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 2.2-2: Previous Archaeological Surveys and Previously Identified

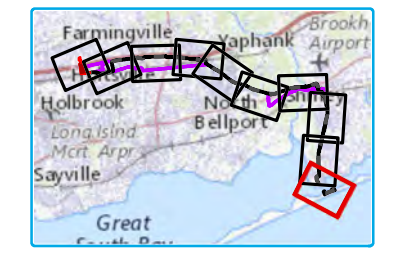
Note: Partially Redacted

- Previous Archaeological Survey
- ICW Work Area
- Landfall Work Area
- Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
- Trenchless Footprint
- 0.25-Mile Onshore Facility Buffer

Archaeological Survey and Assessment of Coastal Resources, Fire Island National Seashore

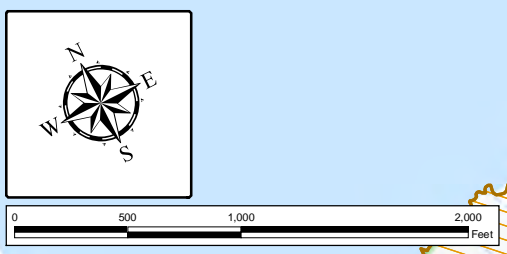
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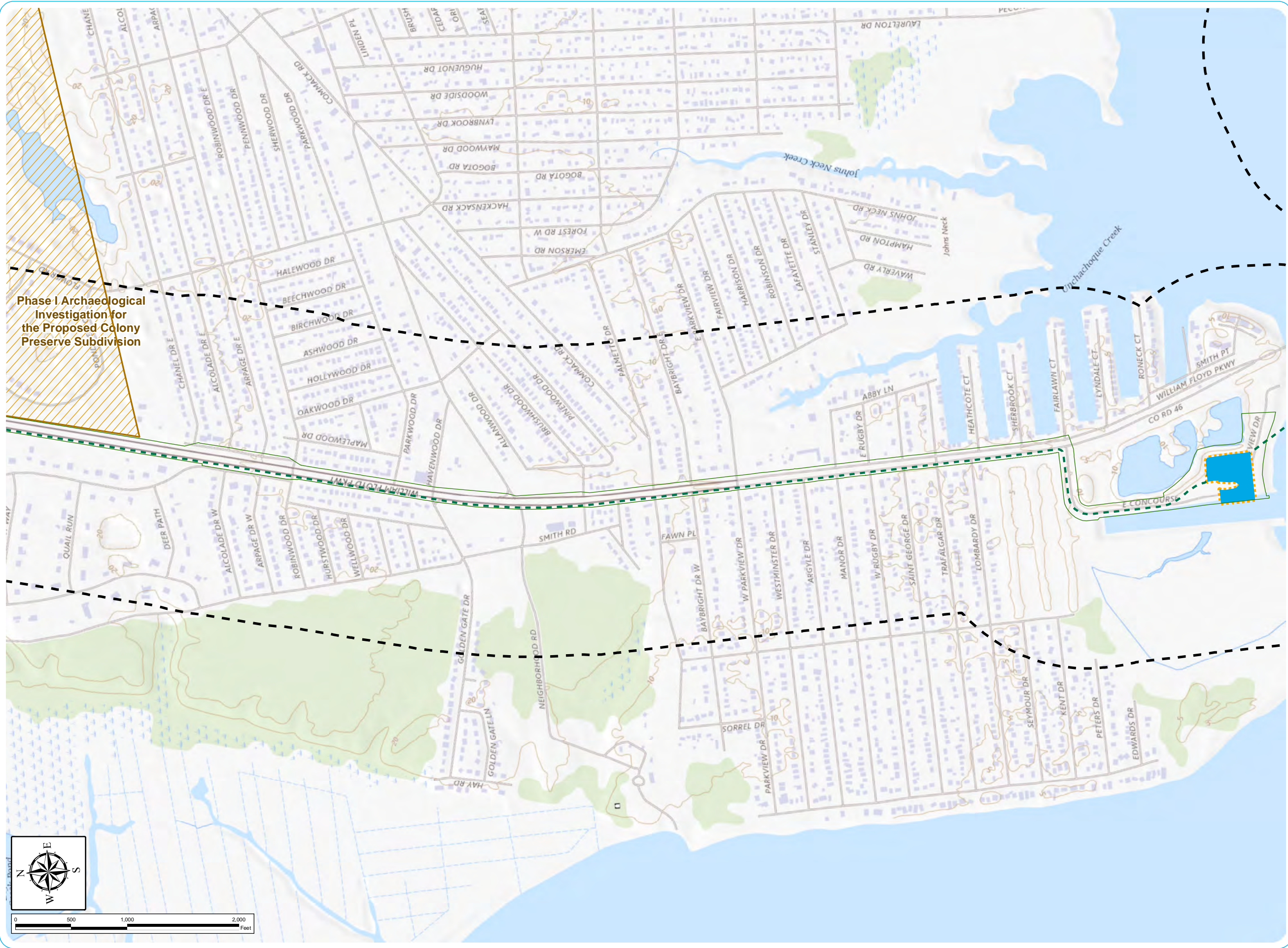
Remote Sensing Survey, Tidal Zone and Near Shore Project Area, Atlantic Coast of Long Island, Fire Island Inlet to Moriches Inlet, Fire Island, Final Report



Sheet 1 of 10

Notes: 1. Basemap: ArcGIS Online "USGS Topo" map service. 2. This map was generated in ArcMap on August 18, 2022. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.





Sunrise Wind Farm

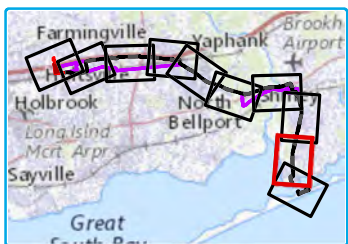
Town of Brookhaven, Suffolk County, New York

Figure 2.2-2: Previous Archaeological Surveys and Previously Identified

Note: Partially Redacted

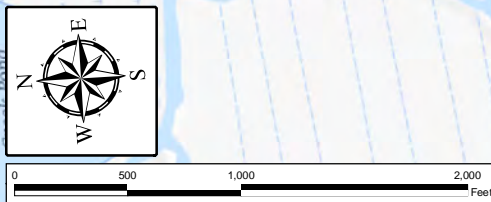
- Previous Archaeological Survey
- ICW Work Area
- Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
- Trenchless Footprint
- 0.25-Mile Onshore Facility Buffer

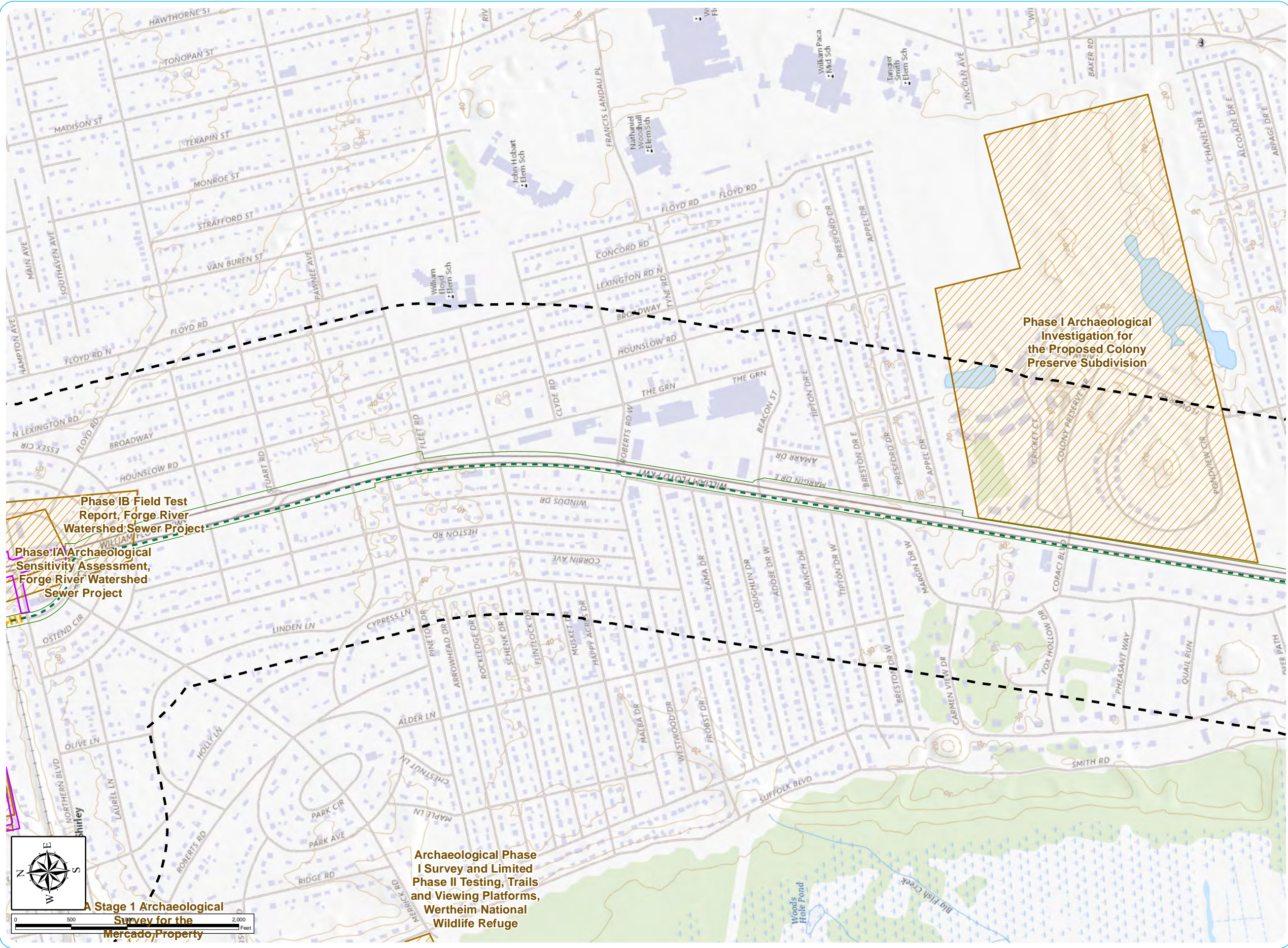
Phase I Archaeological Investigation for the Proposed Colony Preserve Subdivision



Sheet 2 of 10

Notes: 1. Basemap: ArcGIS Online "USGS Topo" map service. 2. This map was generated in ArcMap on August 18, 2022. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.





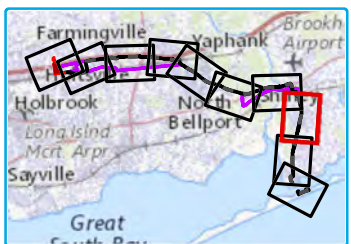
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 2.2-2: Previous Archaeological Surveys and Previously Identified

Note: Partially Redacted

- Previous Archaeological Survey
- Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
- Off-Route Variations
- Trenchless Footprint
- 0.25-Mile Onshore Facility Buffer



Sheet 3 of 10








Notes: 1. Basemap: ArcGIS Online "USGS Topo" map service. 2. This map was generated in ArcMap on August 18, 2022. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.

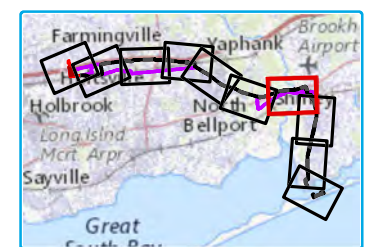
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 2.2-2: Previous Archaeological Surveys and Previously Identified

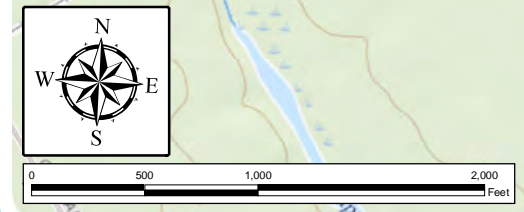
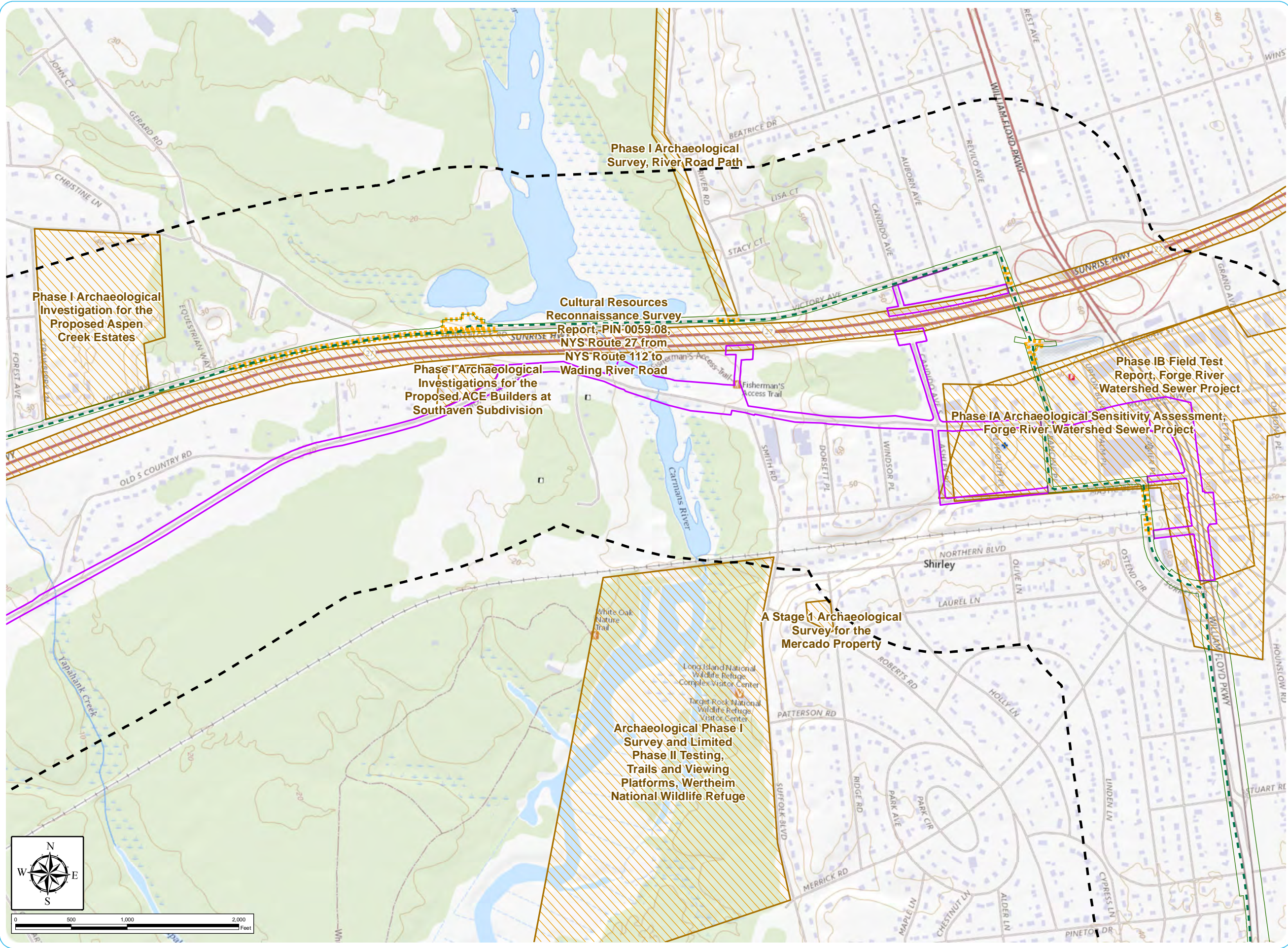
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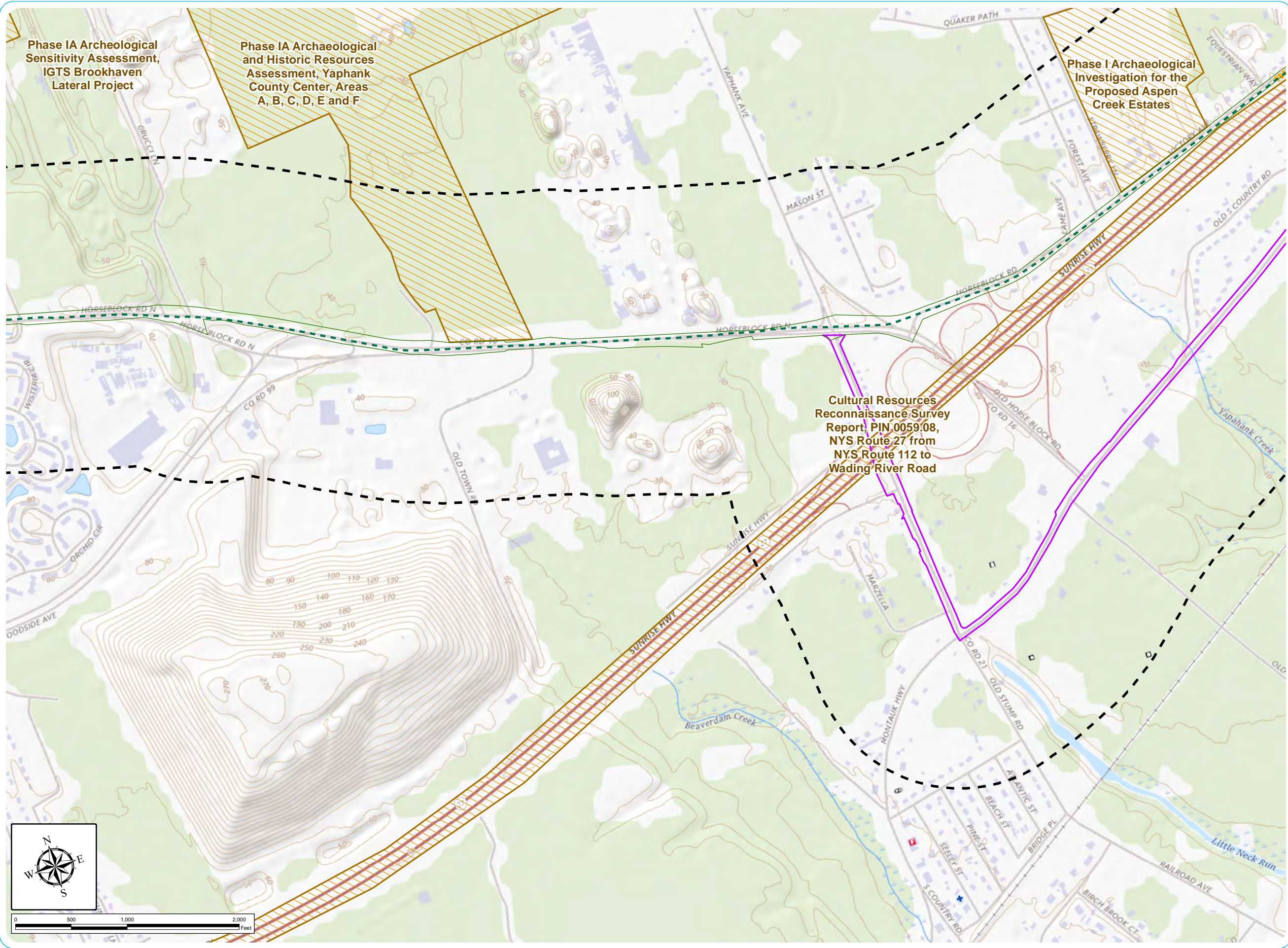
-  Previous Archaeological Survey
-  Onshore Transmission Cable
-  Onshore Transmission Cable Corridor
-  Preferred Route
-  Off-Route Variations
-  Trenchless Footprint
-  0.25-Mile Onshore Facility Buffer



Sheet 4 of 10

Notes: 1. Basemap: ArcGIS Online "USGS Topo" map service. 2. This map was generated in ArcMap on August 18, 2022. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.





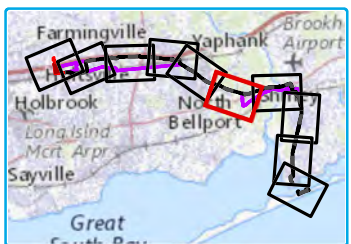
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 2.2-2: Previous Archaeological Surveys and Previously Identified

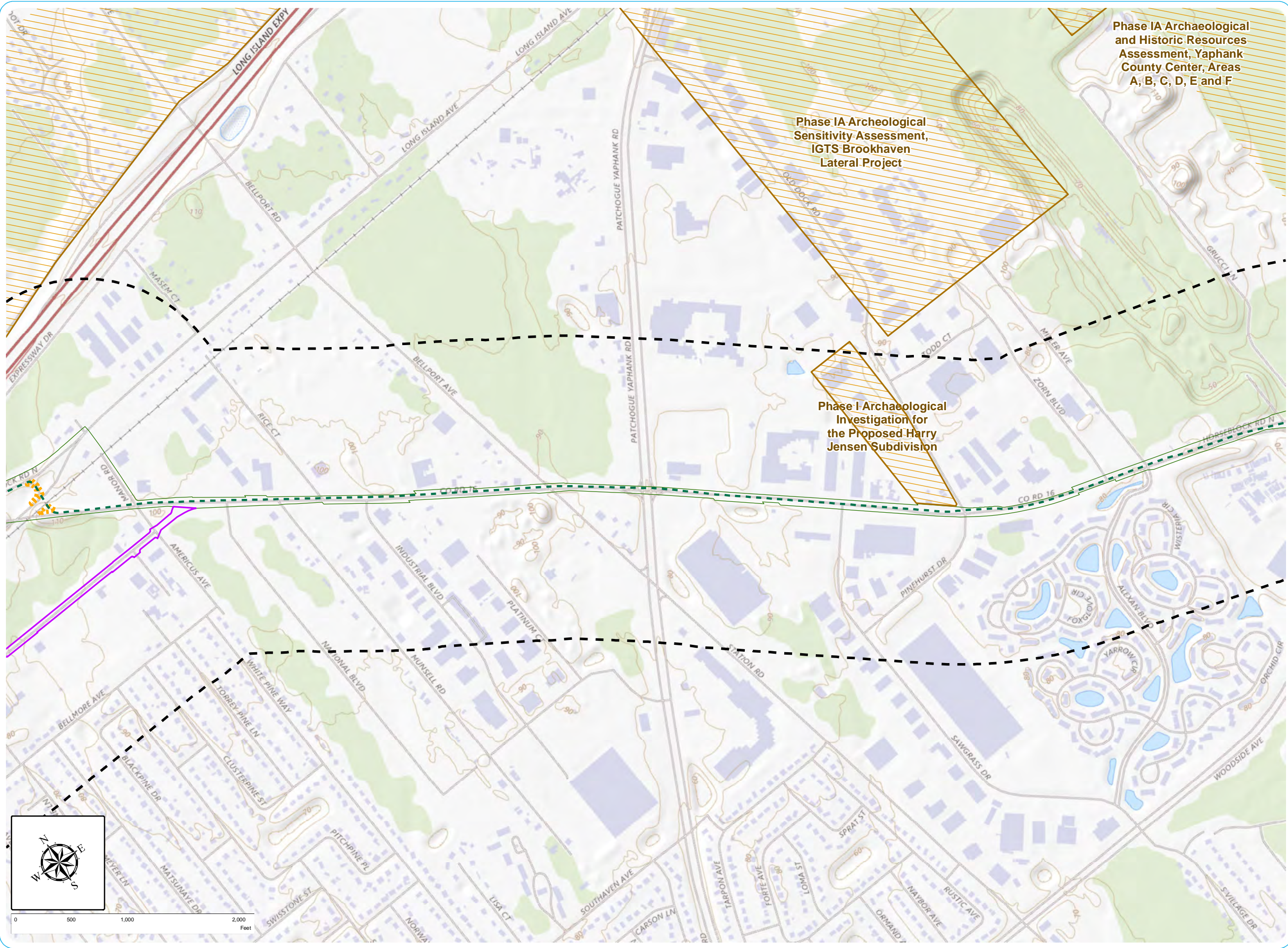
Note: Partially Redacted

- Previous Archaeological Survey
- Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
- Off-Route Variations
- Trenchless Footprint
- 0.25-Mile Onshore Facility Buffer



Sheet 5 of 10

Notes: 1. Basemap: ArcGIS Online "USGS Topo" map service. 2. This map was generated in ArcMap on August 18, 2022. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.



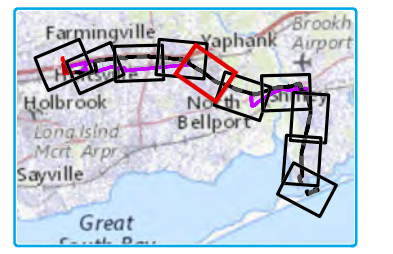
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 2.2-2: Previous Archaeological Surveys and Previously Identified

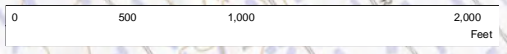
Note: Partially Redacted

- Previous Archaeological Survey
- Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
- Off-Route Variations
- Trenchless Footprint
- 0.25-Mile Onshore Facility Buffer



Sheet 6 of 10

Notes: 1. Basemap: ArcGIS Online "USGS Topo" map service. 2. This map was generated in ArcMap on August 18, 2022. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.










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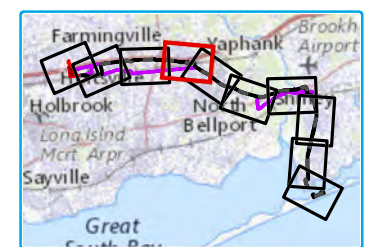
Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

Figure 2.2-2: Previous Archaeological Surveys and Previously Identified

Note: Partially Redacted

-  Previous Archaeological Survey
-  Onshore Transmission Cable
-  Onshore Transmission Cable Corridor
-  Preferred Route
-  Off-Route Variations
-  Trenchless Footprint
-  0.25-Mile Onshore Facility Buffer

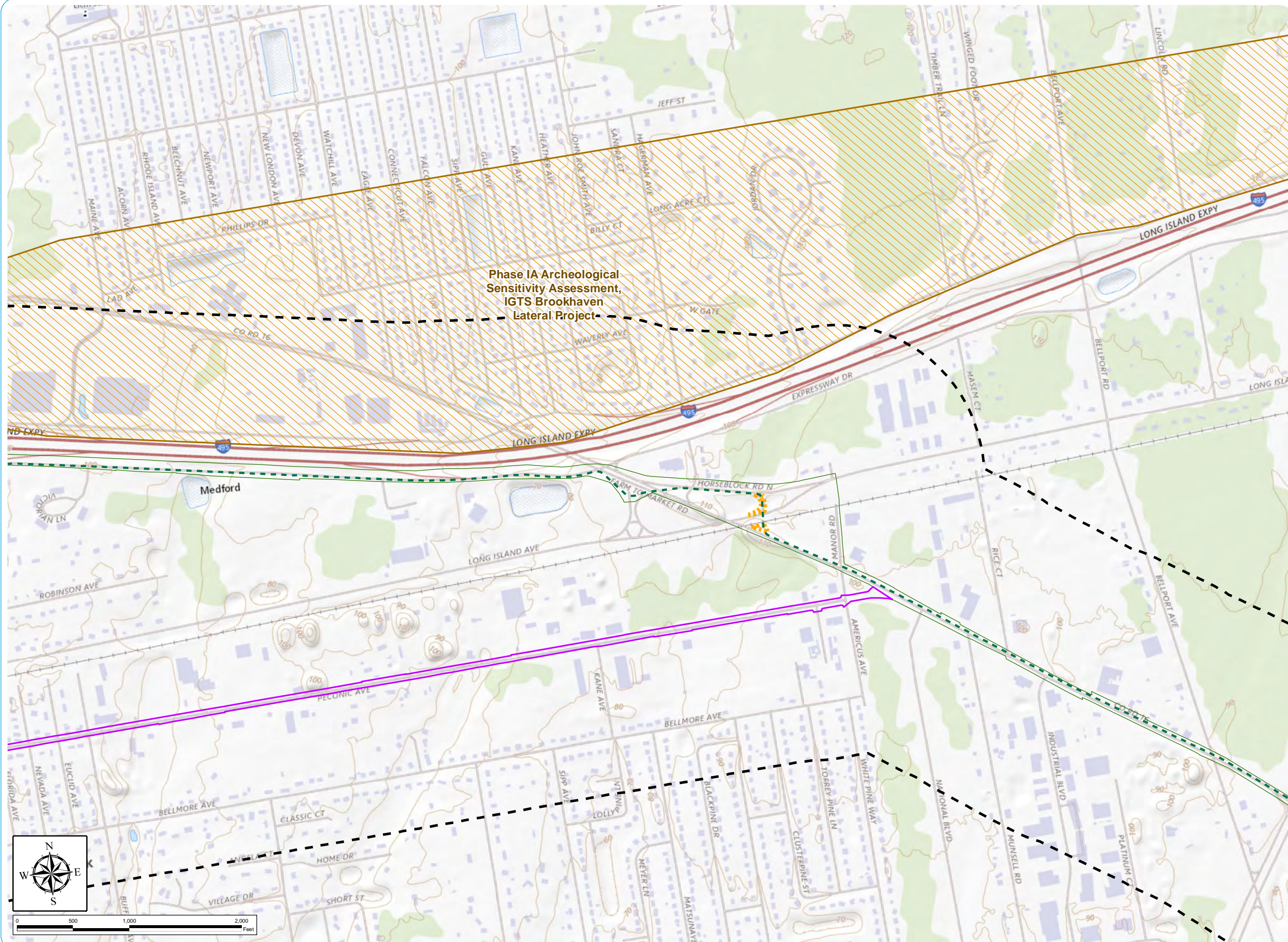


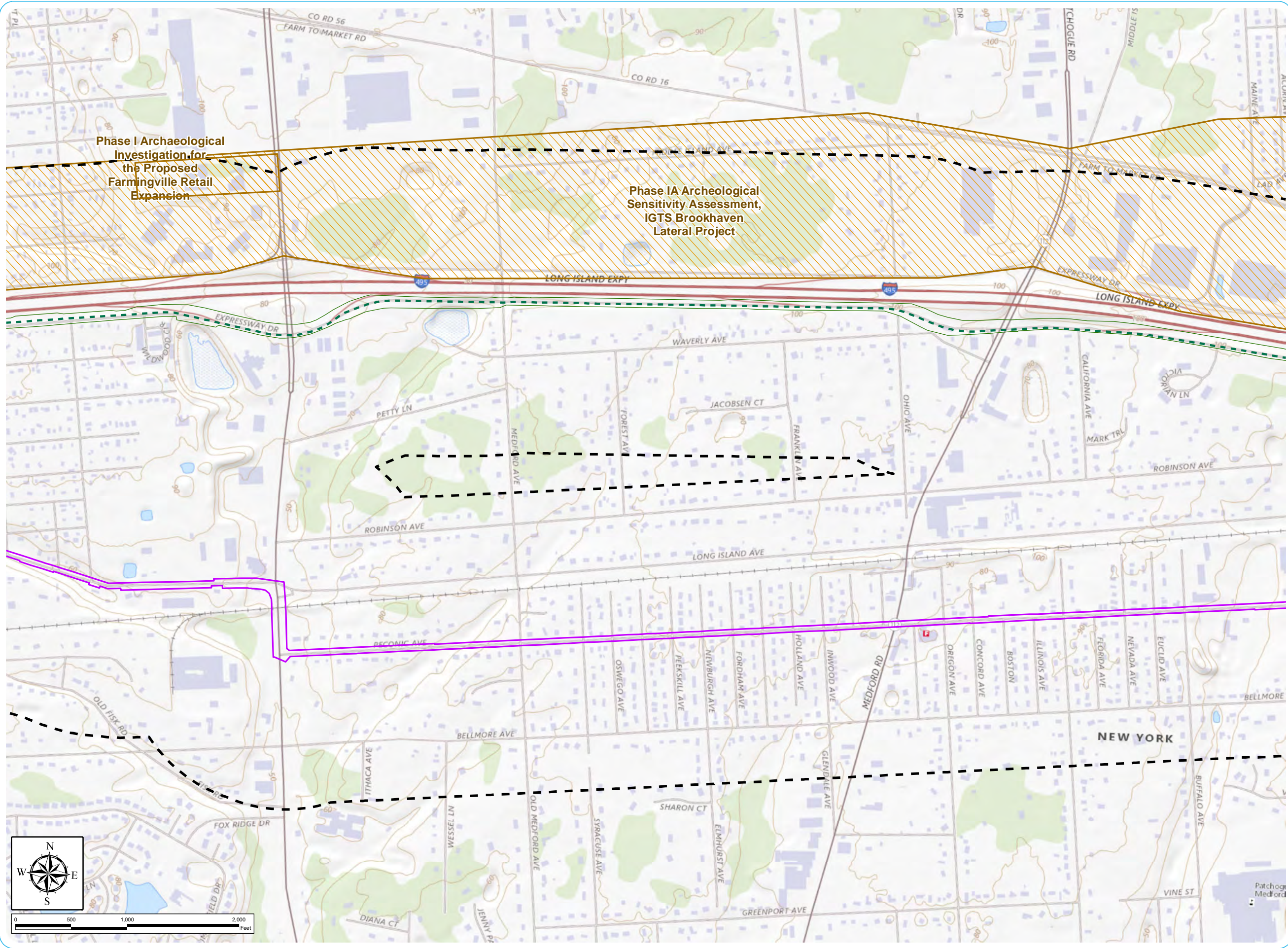
Sheet 7 of 10

Notes: 1. Basemap: ArcGIS Online "USGS Topo" map service. 2. This map was generated in ArcMap on August 18, 2022. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.

Sunrise Wind

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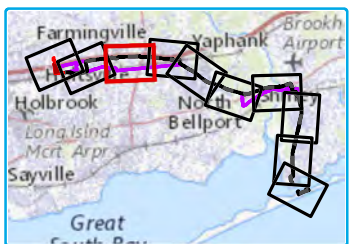
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 2.2-2: Previous Archaeological Surveys and Previously Identified

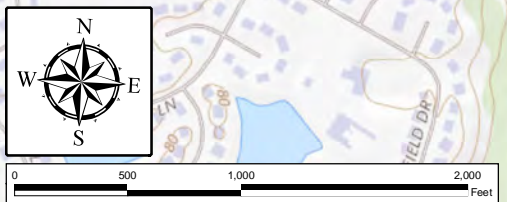
Note: Partially Redacted

- Previous Archaeological Survey
- Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
- Off-Route Variations
- 0.25-Mile Onshore Facility Buffer



Sheet 8 of 10

Notes: 1. Basemap: ArcGIS Online "USGS Topo" map service. 2. This map was generated in ArcMap on August 18, 2022. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.












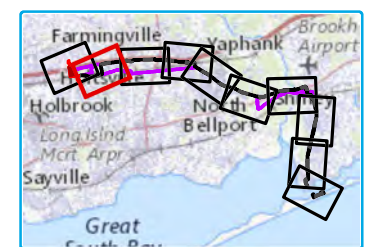
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 2.2-2: Previous Archaeological Surveys and Previously Identified

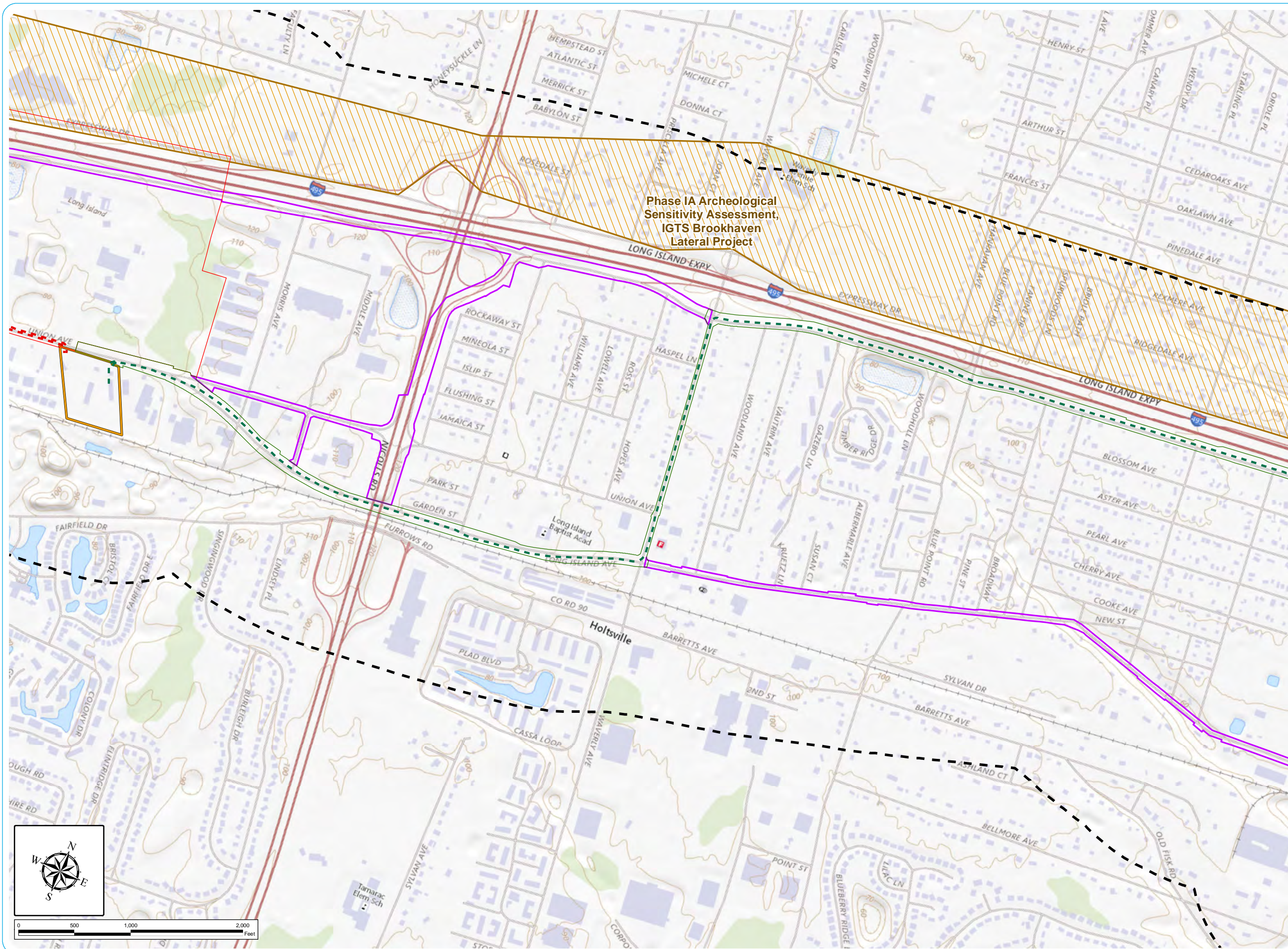
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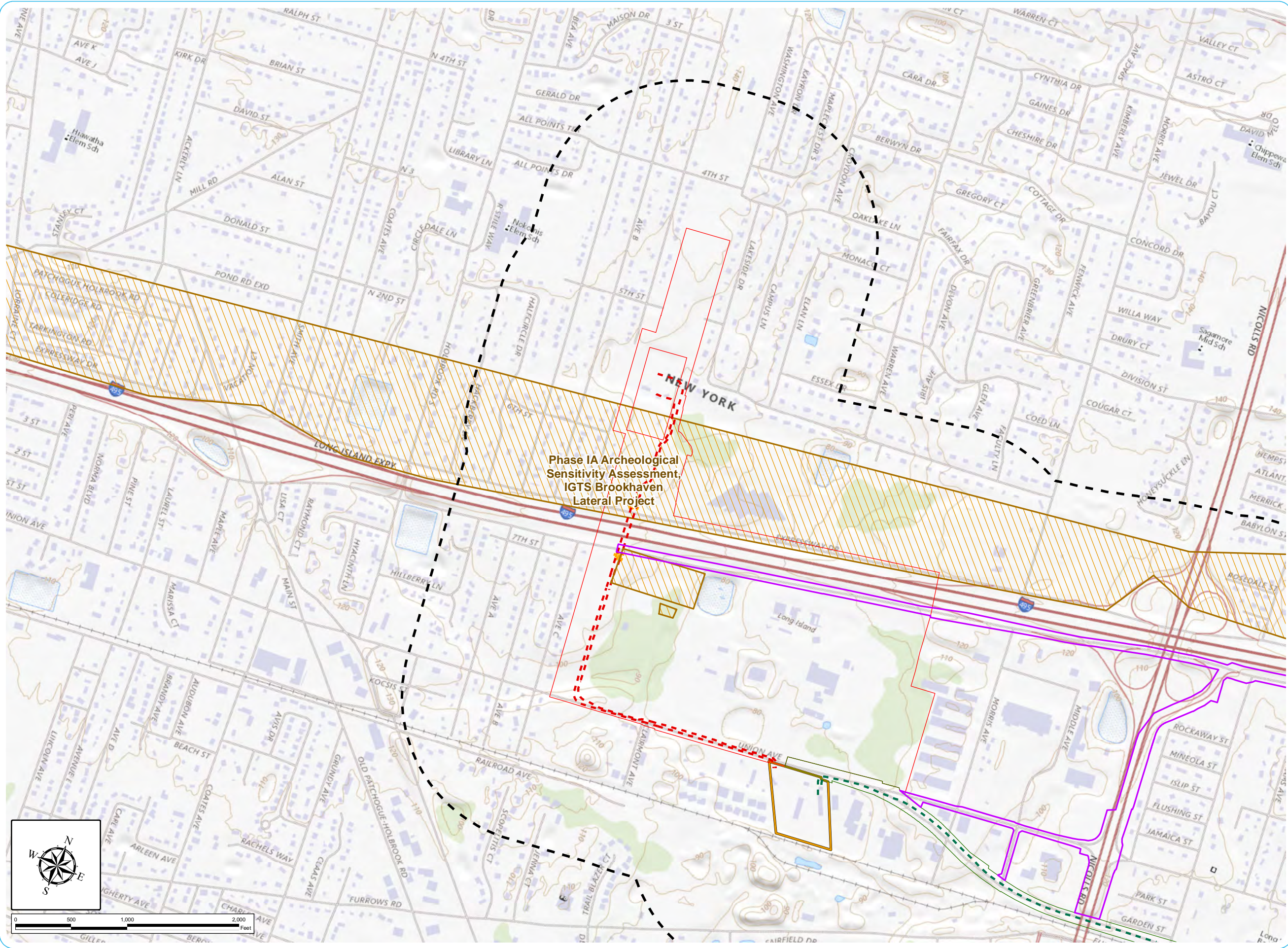
-  Previous Archaeological Survey
-  Onshore Transmission Cable
-  Onshore Transmission Cable Corridor
-  Preferred Route
-  Onshore Interconnection Cable Corridor
-  OnCS-DC
-  Off-Route Variations
-  Onshore Interconnection Cable
-  0.25-Mile Onshore Facility Buffer



Sheet 9 of 10

Notes: 1. Basemap: ArcGIS Online "USGS Topo" map service. 2. This map was generated in ArcMap on August 18, 2022. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.





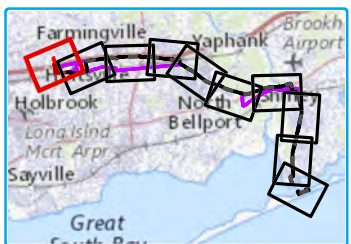
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 2.2-2: Previous Archaeological Surveys and Previously Identified

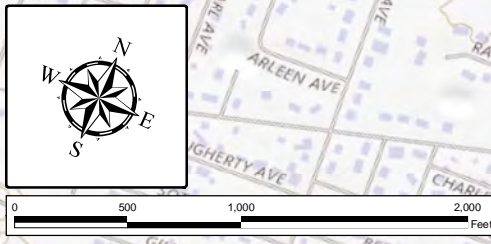
Note: Partially Redacted

- Previous Archaeological Survey
- Onshore Transmission Cable
- Onshore Transmission Cable Corridor
- Preferred Route
- Onshore Interconnection Cable Corridor
- OnCS-DC
- Off-Route Variations
- Onshore Interconnection Cable
- Trenchless Footprint
- 0.25-Mile Onshore Facility Buffer



Sheet 10 of 10

Notes: 1. Basemap: ArcGIS Online "USGS Topo" map service. 2. This map was generated in ArcMap on August 18, 2022. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.





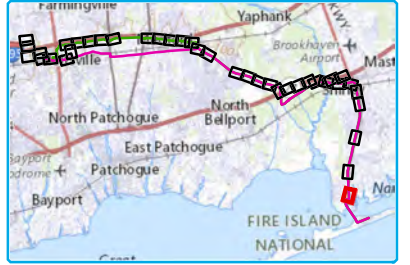
Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - DOT Roadway
- Onshore Transmission Cable
 - - - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - Preferred Route



Sheet 1 of 39
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



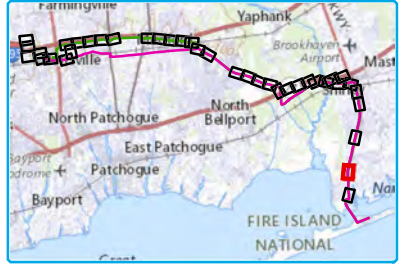
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Excluded Areas
 - ▨ Disturbed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - DOT Roadway
- Onshore Transmission Cable
 - - - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - Preferred Route



Sheet 2 of 39
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



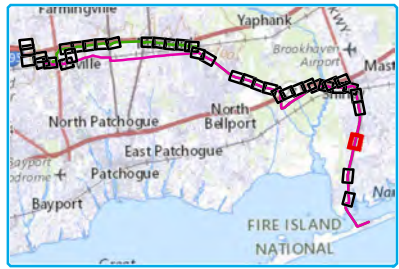
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

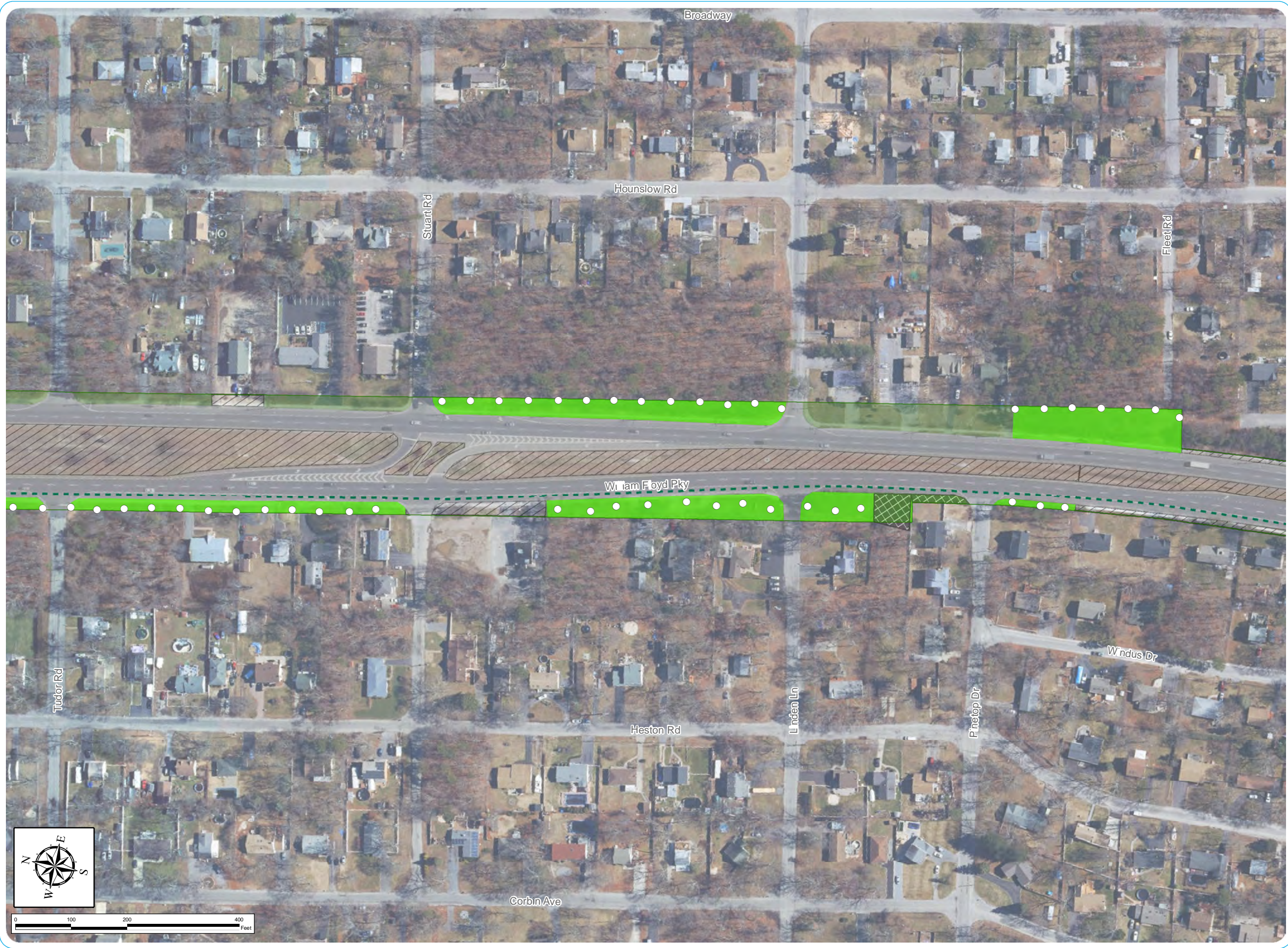
Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - DOT Roadway
- Onshore Transmission Cable
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - Preferred Route



Sheet 3 of 39
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



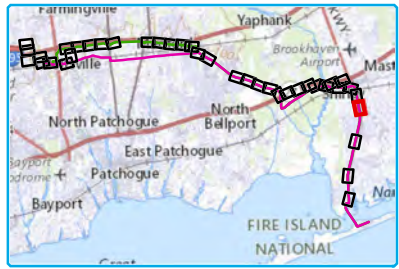
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

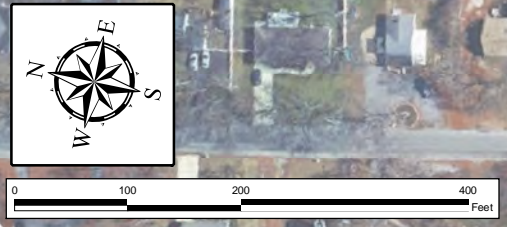
Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Excluded Areas
 - ▨ Disturbed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - DOT Roadway
- Onshore Transmission Cable
 - - - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - Preferred Route



Sheet 4 of 39
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



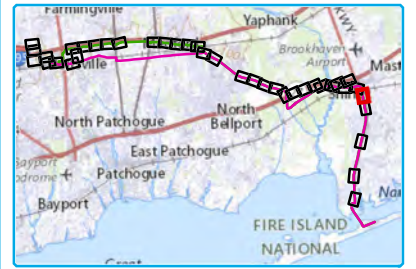
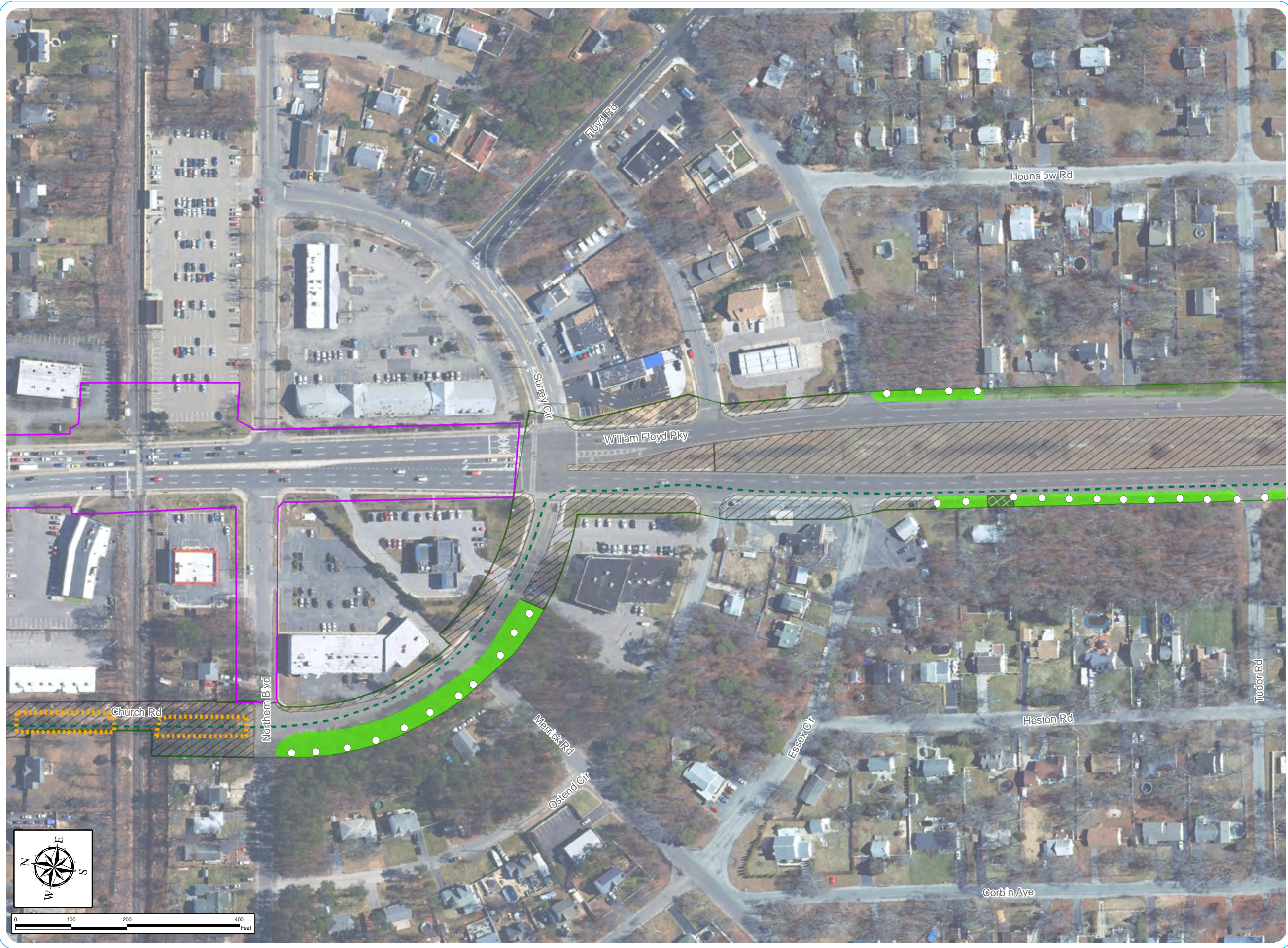
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

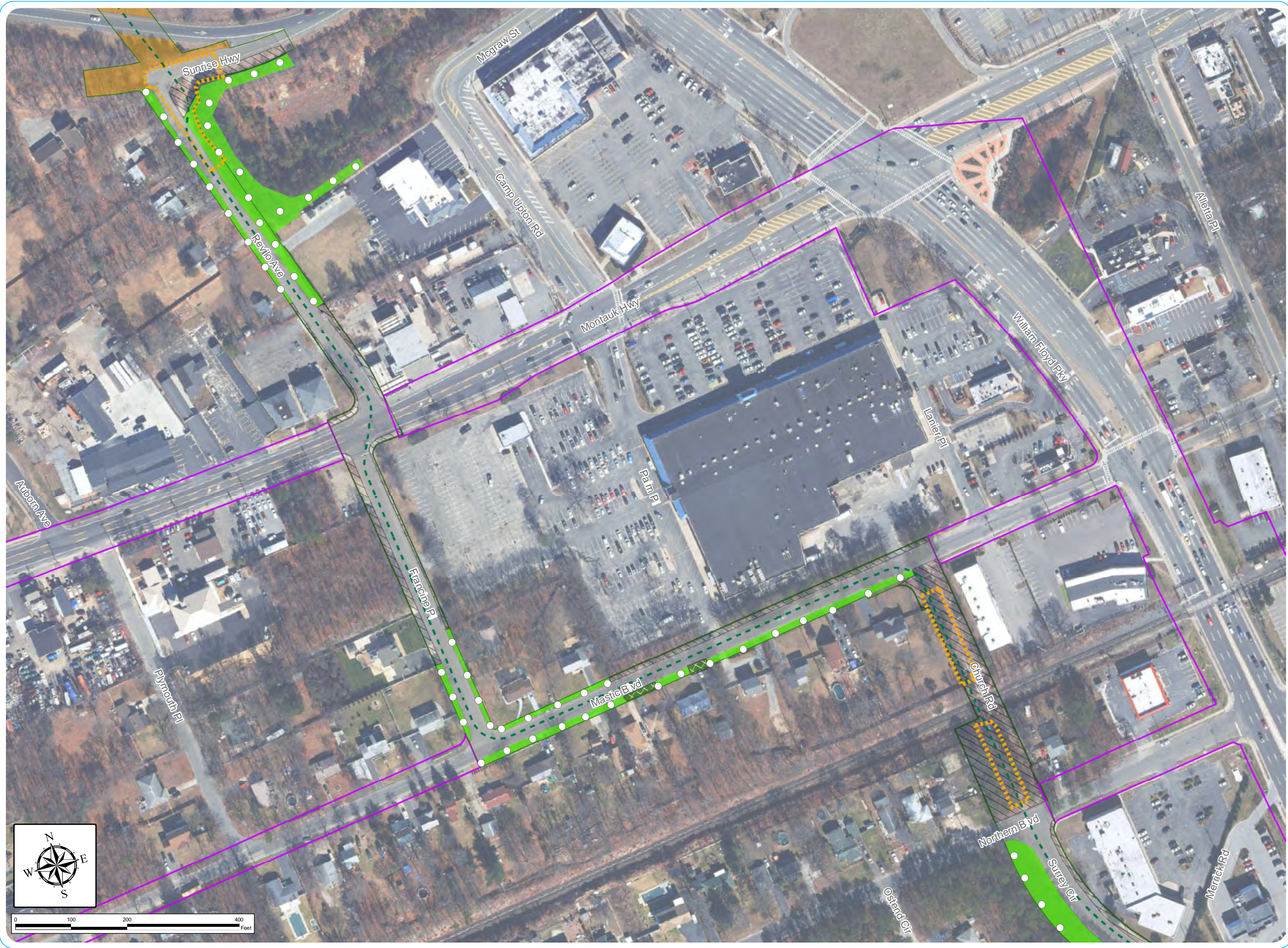
Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase 1B Shovel Test
 - STP Location
- Phase 1B Survey Area
 - Surveyed
- Excluded Areas
 - ▨ Disturbed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - DOT Roadway
- Onshore Transmission Cable
 - - - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - ▭ Preferred Route
 - ▭ Off-Route Variations
- Trenchless Footprint
 - ▨ Trenchless Footprint



Sheet 5 of 39
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



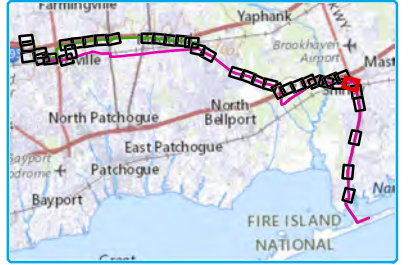
Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

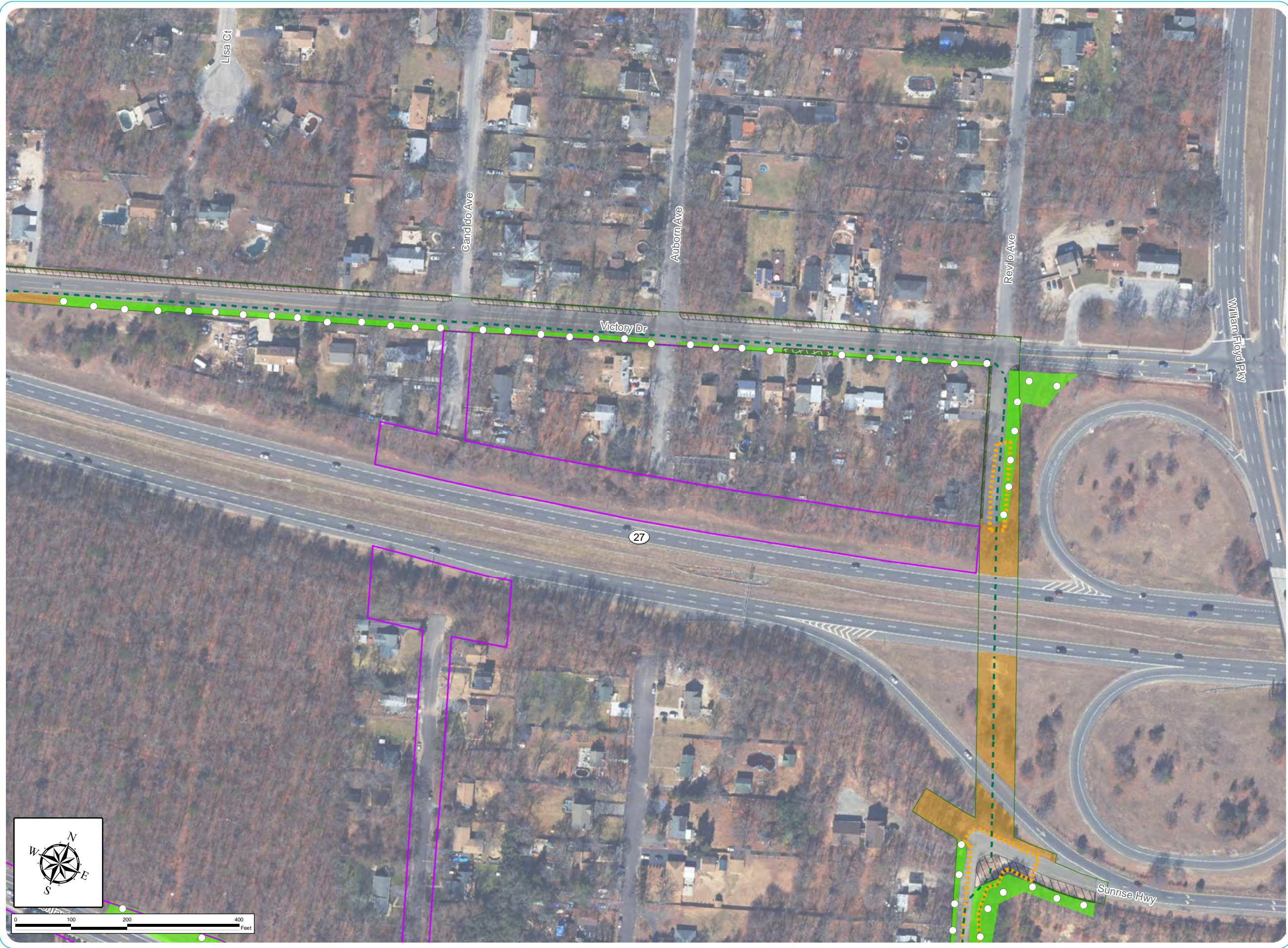
Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Excluded Areas
 - ▨ Disturbed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - Previously Tested
 - DOT Roadway
- Onshore Transmission Cable Corridor
 - Preferred Route
 - Off-Route Variations
 - ⋯ Trenchless Footprint



Sheet 6 of 39
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



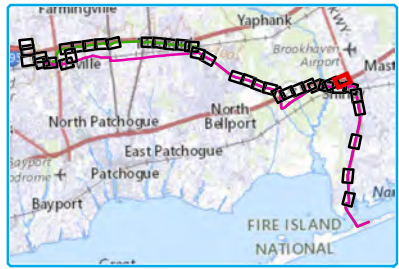
Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Excluded Areas
 - ▨ Disturbed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - Previously Tested
 - DOT Roadway
- Onshore Transmission Cable Corridor
 - Preferred Route
 - ▭ Off-Route Variations
 - ▨ Trenchless Footprint



Sheet 7 of 39
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale





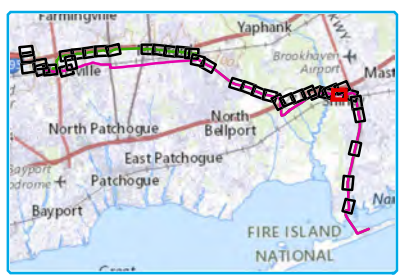
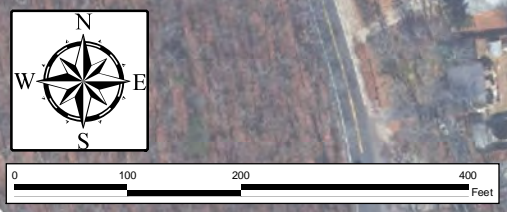
Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

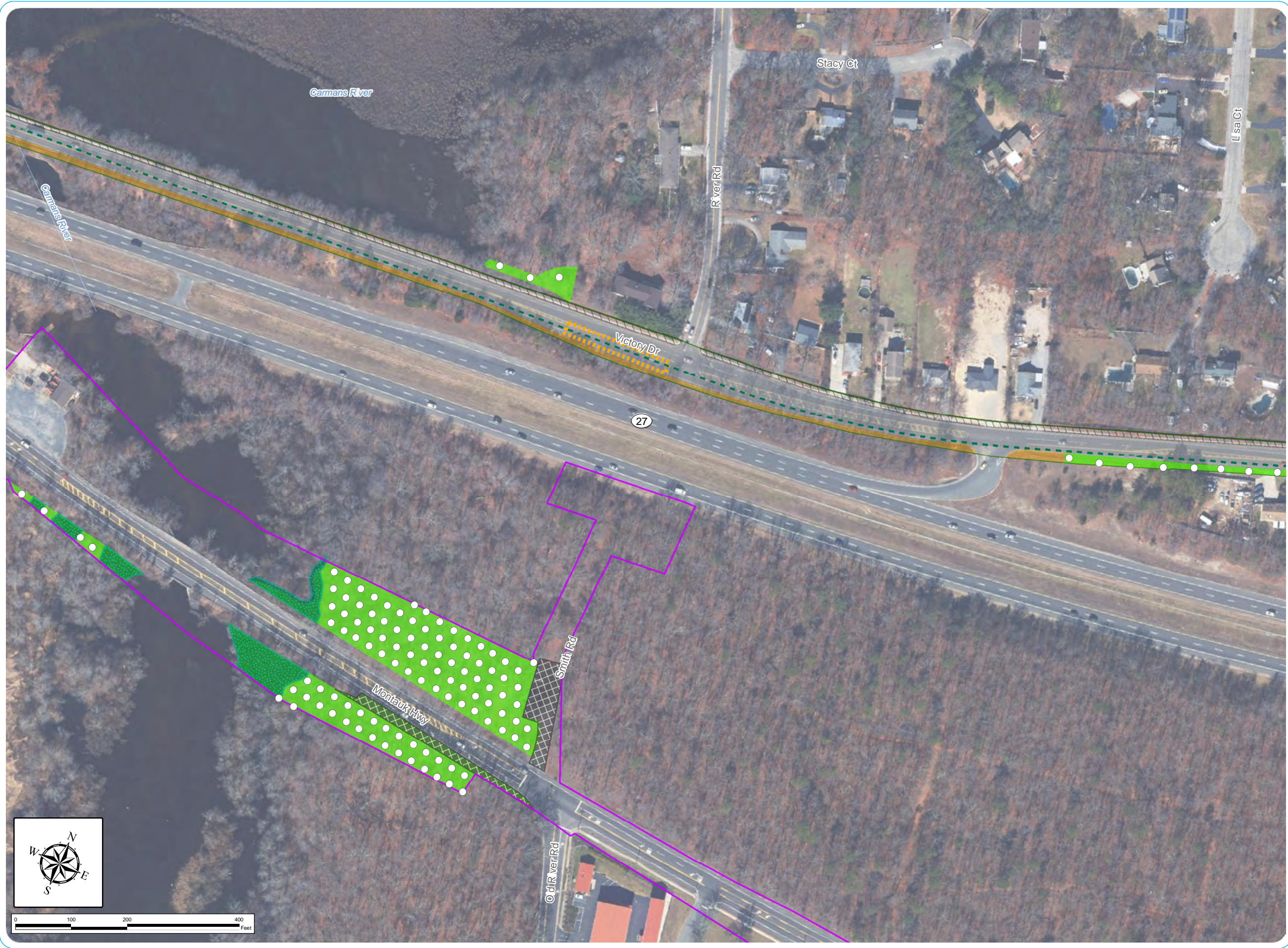
Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
 - Off-Route Variations



Sheet 8 of 39
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



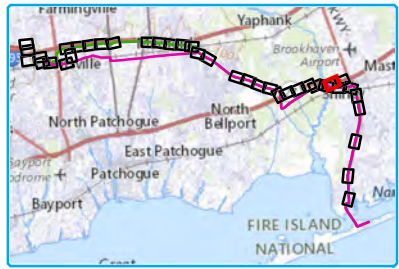
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

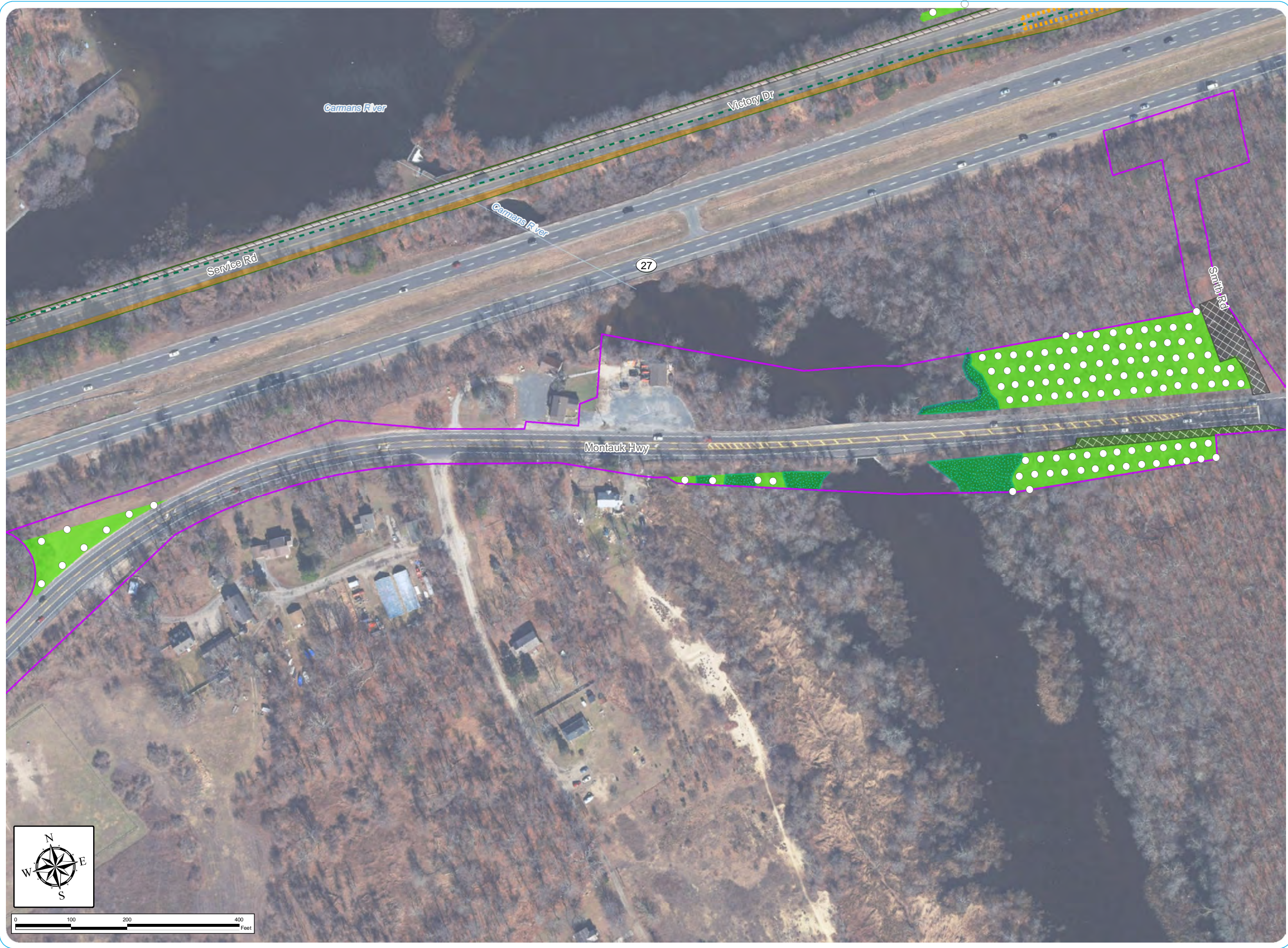
Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Excluded Areas
 - ▨ Disturbed
 - ▤ Inundated
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - Previously Tested
 - DOT Roadway
- Onshore Transmission Cable
 - - - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - ▭ Preferred Route
 - ▭ Off-Route Variations
 - ▨ Trenchless Footprint



Sheet 9 of 39
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



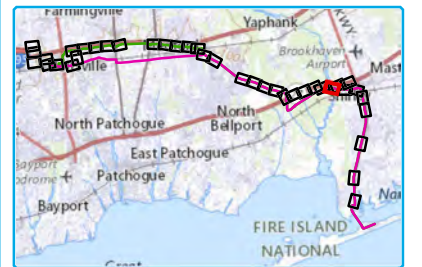
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Excluded Areas
 - ▨ Disturbed
 - ▤ Inundated
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Previously Tested
 - DOT Roadway
- Onshore Transmission Cable Corridor
 - Preferred Route
 - Off-Route Variations
 - Trenchless Footprint

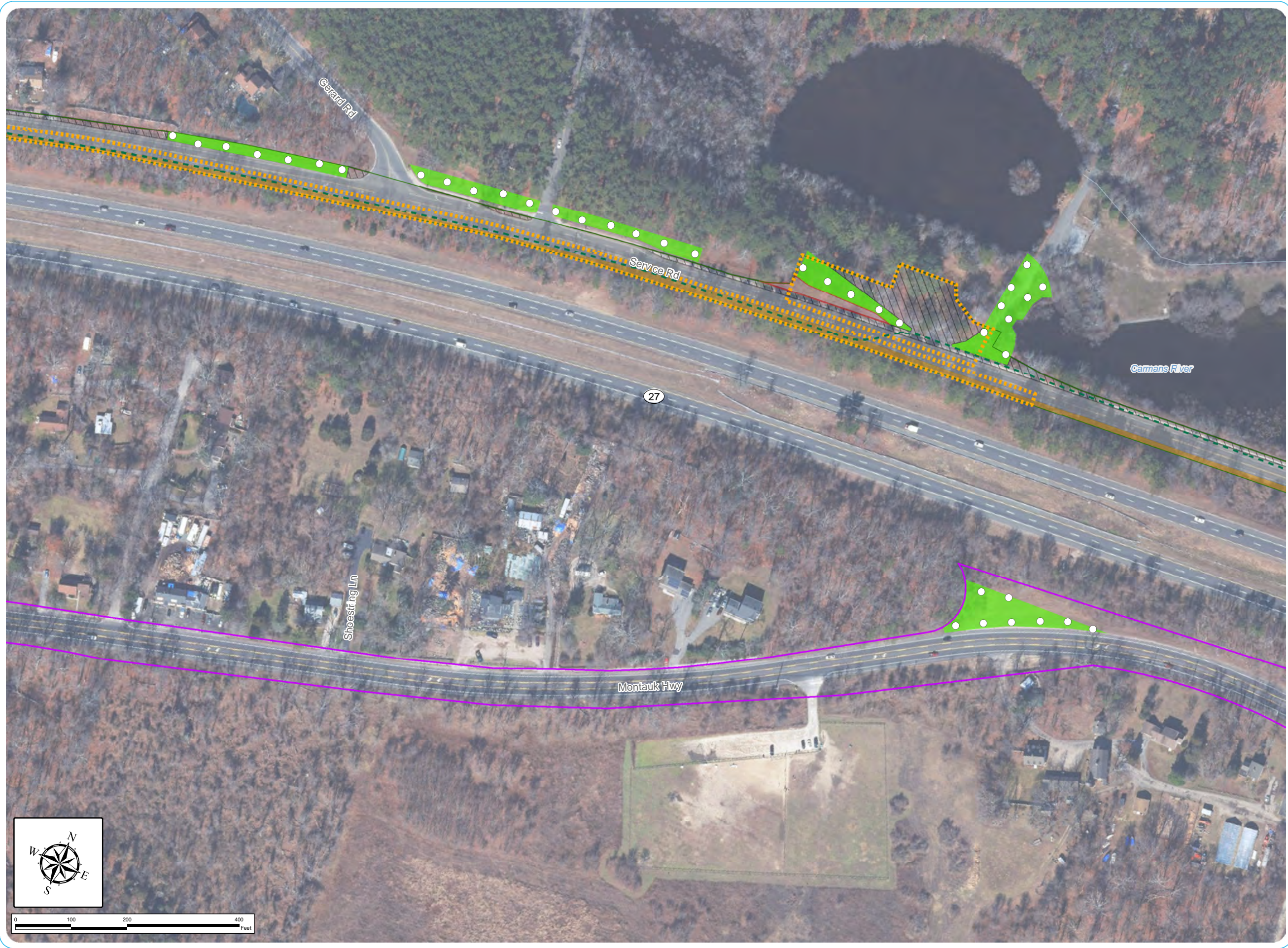


Sheet 10 of 39

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale

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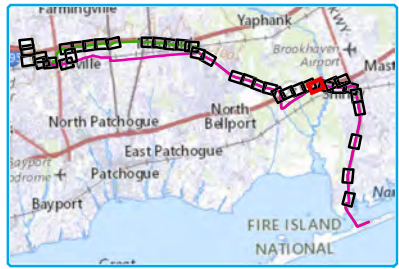
Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

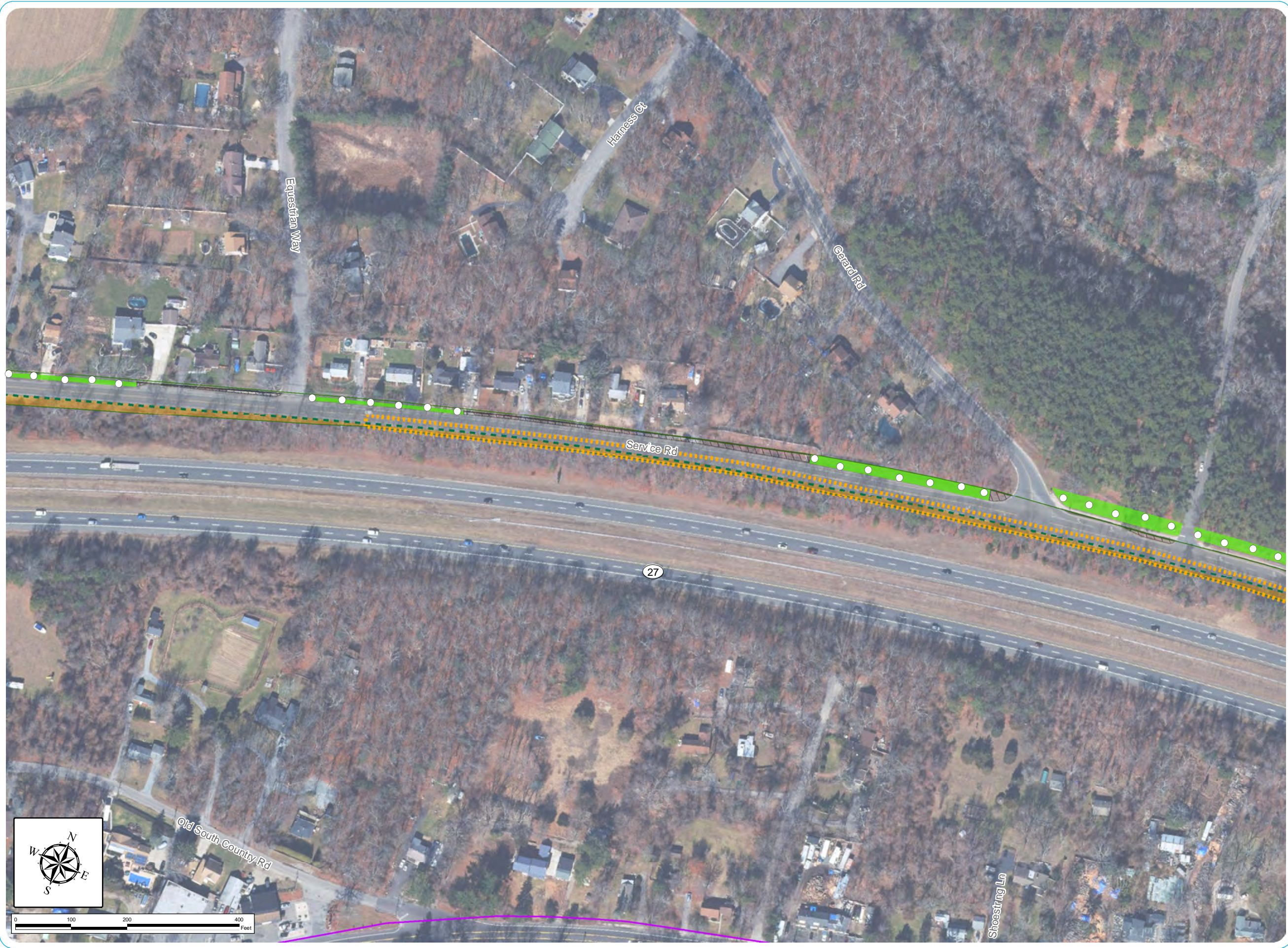
Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Archaeological Reconnaissance Results
 - Steep Slope
 - ▨ Disturbed
 - Potentially Undisturbed
 - Previously Tested
 - DOT Roadway
- Onshore Transmission Cable Corridor
 - Preferred Route
 - Off-Route Variations
- Trenchless Footprint
 -



Sheet 11 of 39
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale





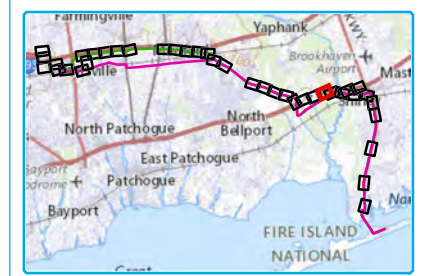
Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase 1B Shovel Test
 - STP Location
- Phase 1B Survey Area
 - Surveyed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - Previously Tested
 - DOT Roadway
- Onshore Transmission Cable
 - - - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - ▭ Preferred Route
 - ▭ Off-Route Variations
 - ▨ Trenchless Footprint



Sheet 12 of 39

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale

Sunrise Wind

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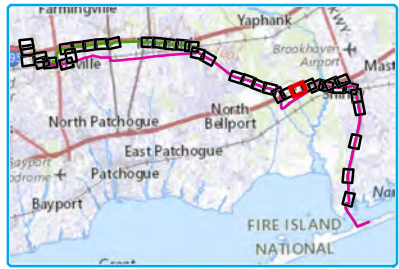
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Excluded Areas
 - ▨ Disturbed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - Previously Tested
 - DOT Roadway
- Onshore Transmission Cable
 - - - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - ▭ Preferred Route



Sheet 13 of 39
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



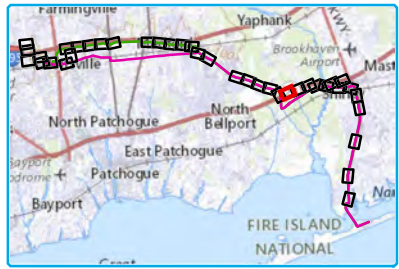
Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - DOT Roadway
- Onshore Transmission Cable
 - - - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - ▭ Preferred Route
 - ▭ Off-Route Variations



Sheet 14 of 39
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



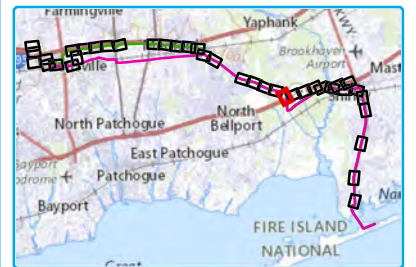
Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - DOT Roadway
- Onshore Transmission Cable
 - - - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - ▭ Preferred Route
 - ▭ Off-Route Variations



Sheet 15 of 39

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale

SW

NE



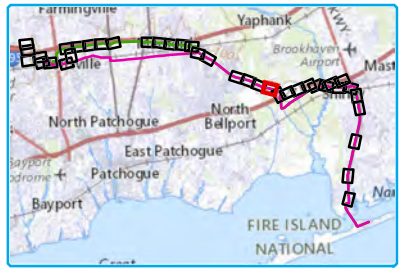
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

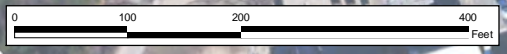
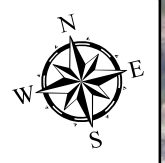
Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Excluded Areas
 - ▨ Disturbed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - DOT Roadway
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - Preferred Route



Sheet 16 of 39

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



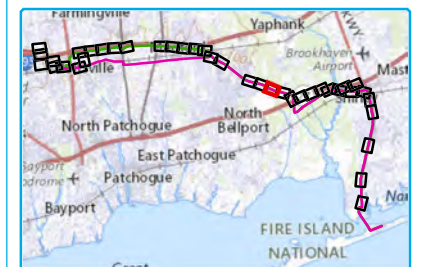
Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Excluded Areas
 - ▨ Disturbed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
- DOT Roadway
 - ▬ DOT Roadway
- Onshore Transmission Cable
 - - - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - Preferred Route



Sheet 17 of 39

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale





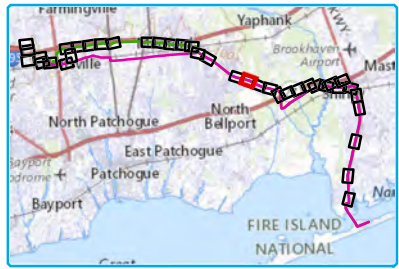
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Excluded Areas
 - ▨ Disturbed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
- DOT Roadway
 - DOT Roadway
- Onshore Transmission Cable
 - - - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - Preferred Route



Sheet 18 of 39

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



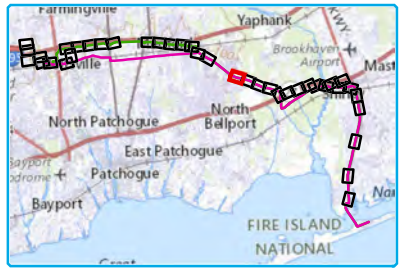
Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - DOT Roadway
- Onshore Transmission Cable
 - - - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - ▭ Preferred Route



Sheet 19 of 39
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



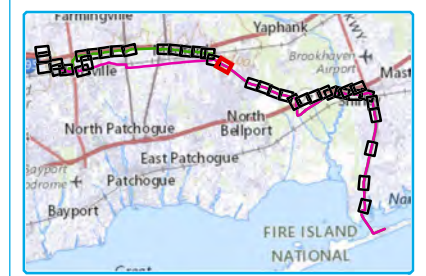
Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Excluded Areas
 - ▨ Disturbed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
- DOT Roadway
 - ▬ DOT Roadway
- Onshore Transmission Cable
 - - - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - ▭ Preferred Route

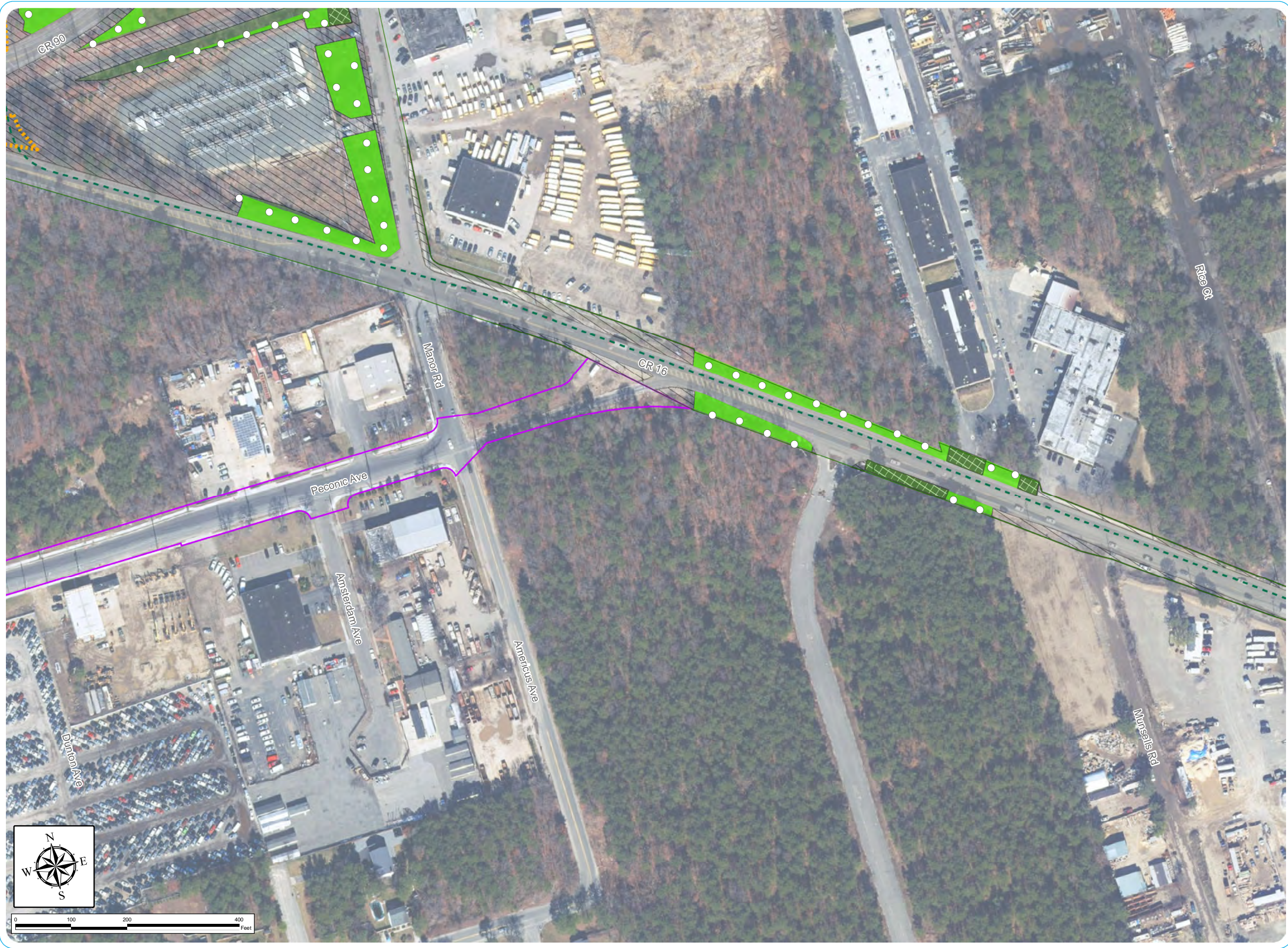


Sheet 20 of 39

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



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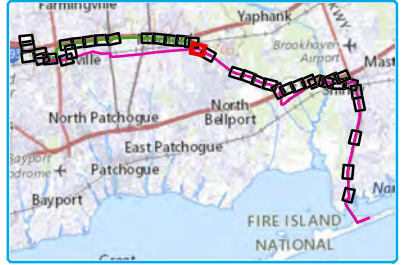
Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

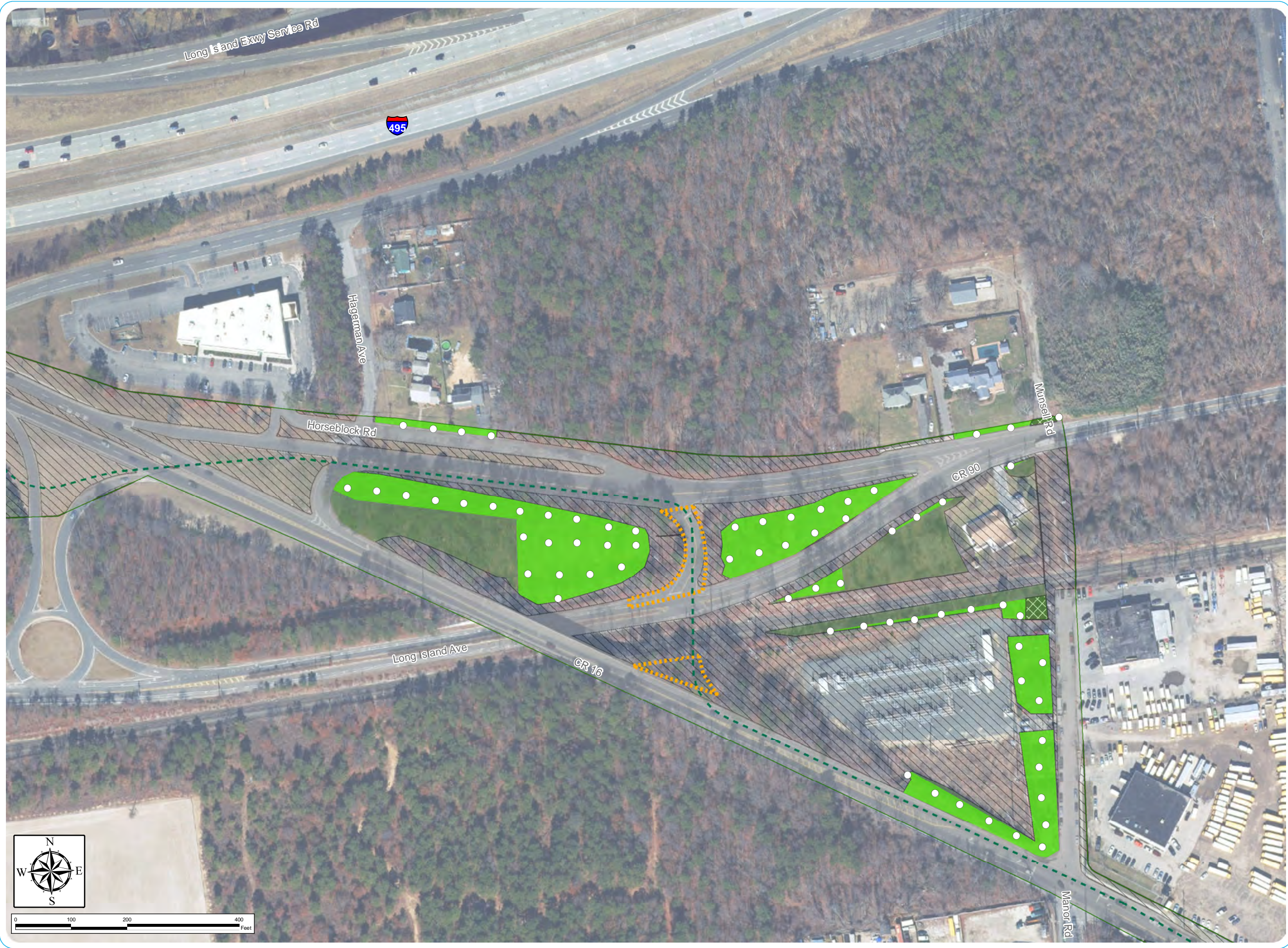
Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Excluded Areas
 - ▨ Disturbed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - DOT Roadway
- Onshore Transmission Cable Corridor
 - Preferred Route
 - Off-Route Variations
 - Trenchless Footprint



Sheet 21 of 39
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



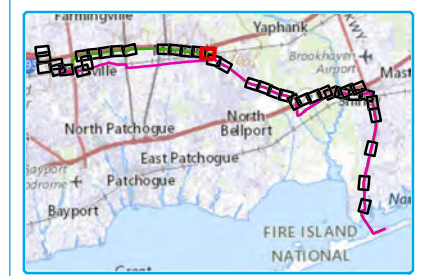
Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Excluded Areas
 - ▨ Disturbed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - DOT Roadway
- Onshore Transmission Cable
 - - - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - Preferred Route
 - - - Trenchless Footprint

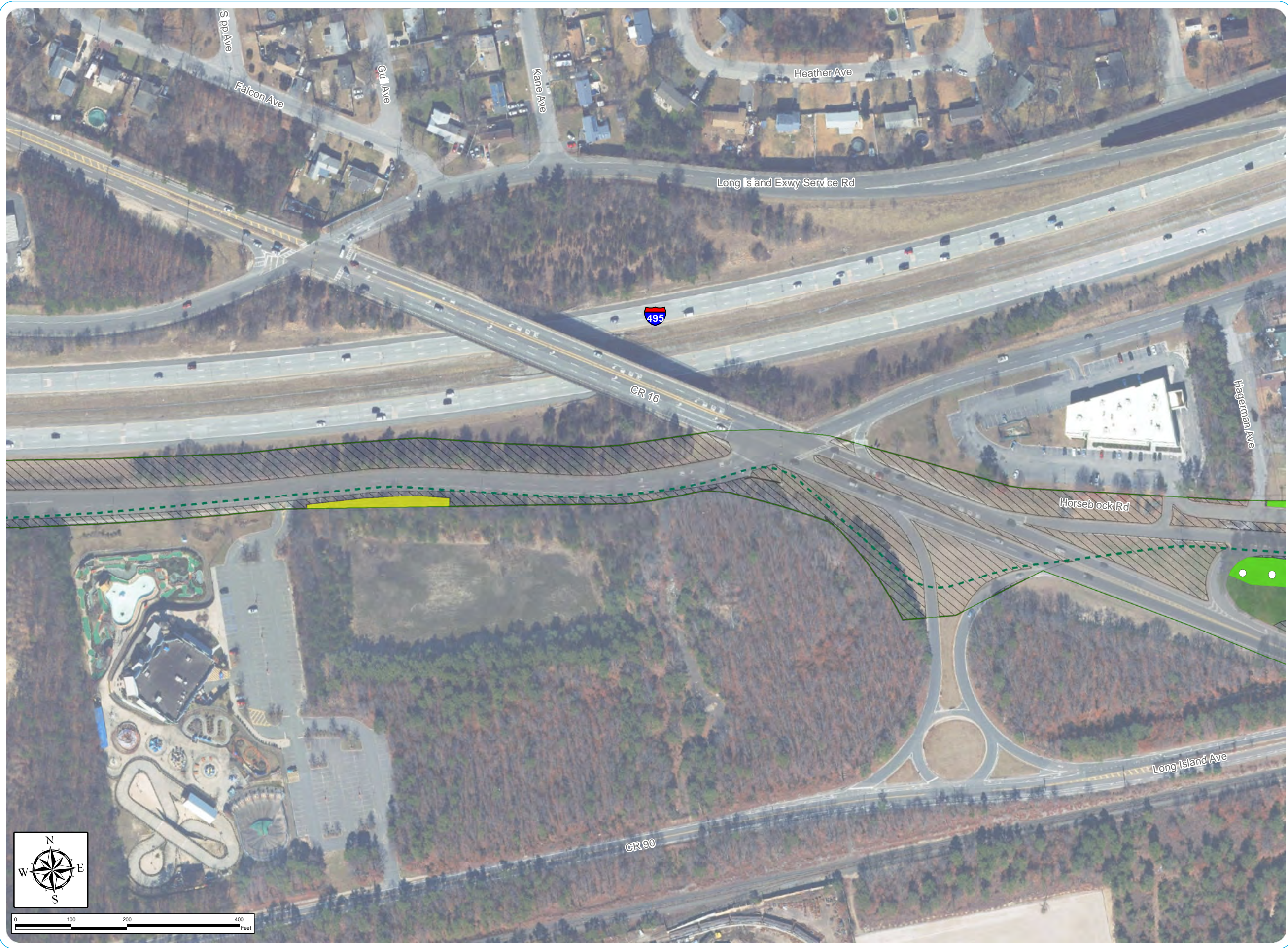


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Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale

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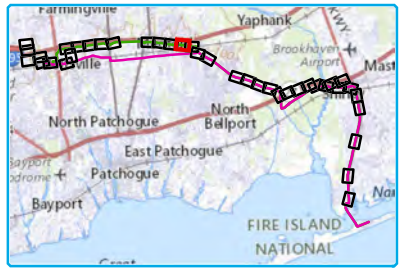
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Not Surveyed (Inaccessible)
 - Surveyed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - DOT Roadway
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - ▭ Preferred Route



Sheet 23 of 39
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



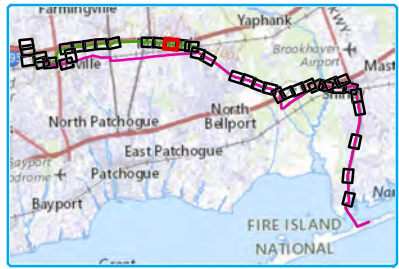
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - DOT Roadway
- Onshore Transmission Cable
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - ▭ Preferred Route



Sheet 24 of 39
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



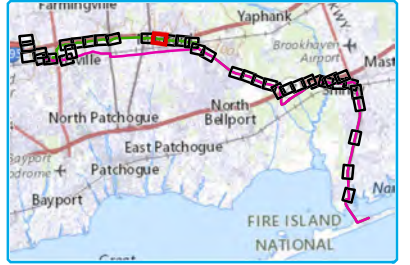
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

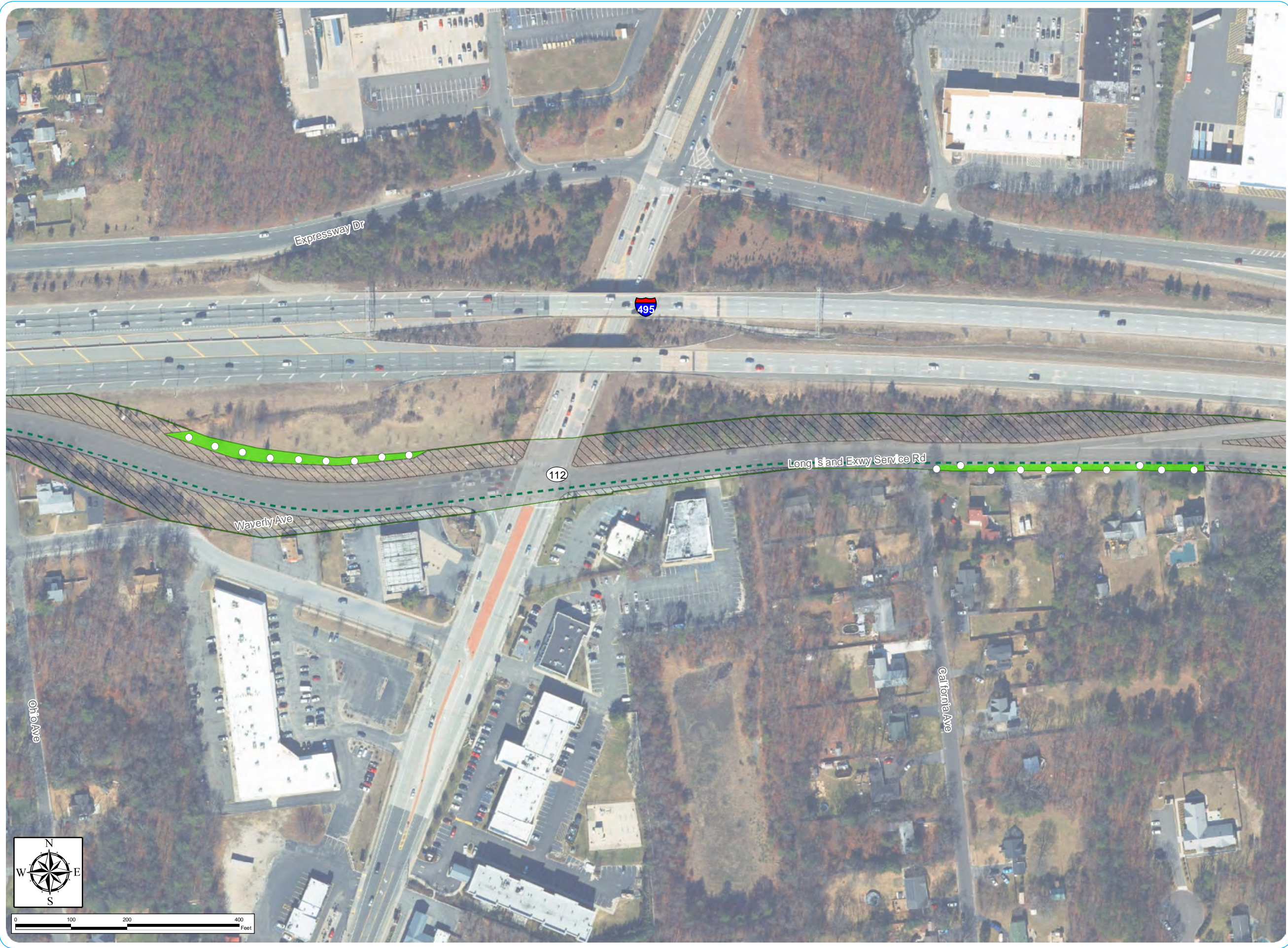
Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - DOT Roadway
- Onshore Transmission Cable
 - - - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - Preferred Route



Sheet 25 of 39
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



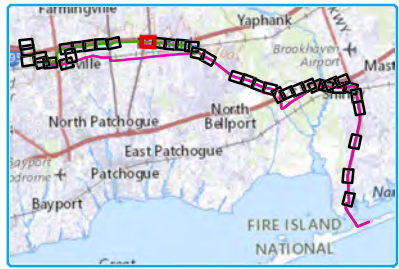
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

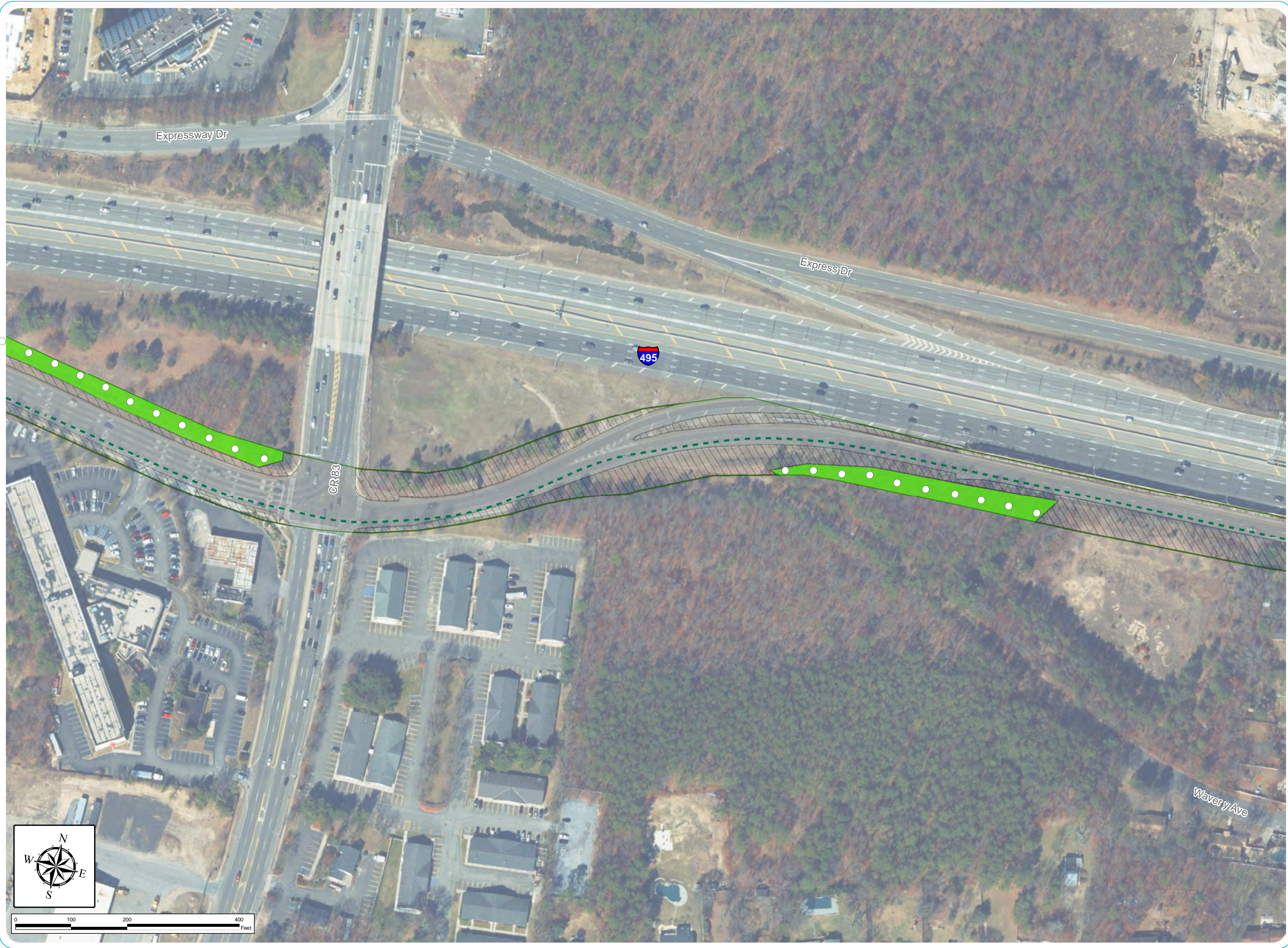
Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - DOT Roadway
- Onshore Transmission Cable
 - - - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - ▭ Preferred Route



Sheet 26 of 39
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



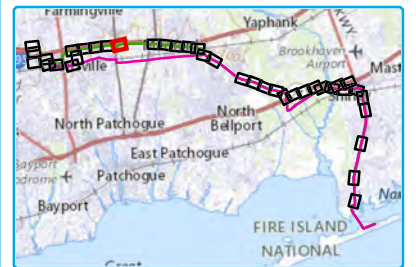
Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - DOT Roadway
- Onshore Transmission Cable
 - - - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - ▭ Preferred Route



Sheet 27 of 39

Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale

Sunrise Wind

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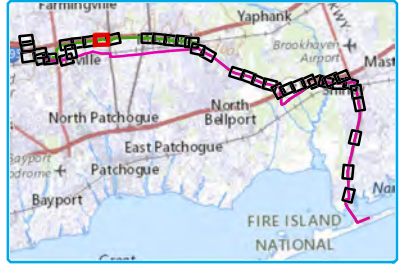
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

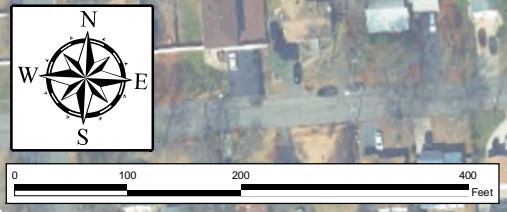
Figure 3.2-1: Phase 1B Archaeological Survey Results

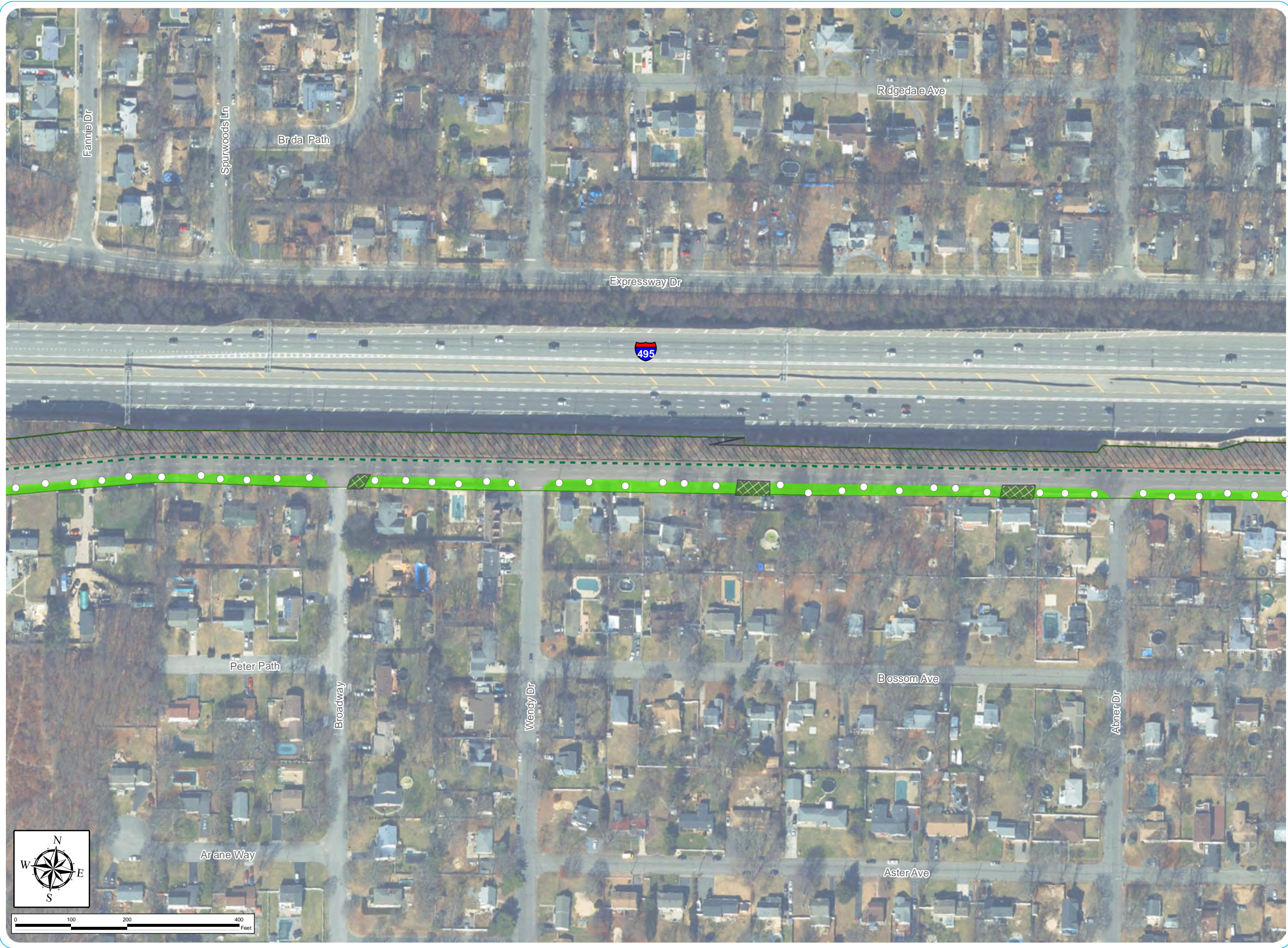
Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - DOT Roadway
- Onshore Transmission Cable
 - - - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - Preferred Route



Sheet 28 of 39
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale





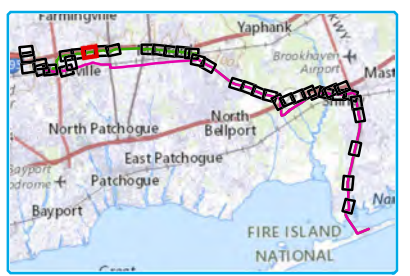
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

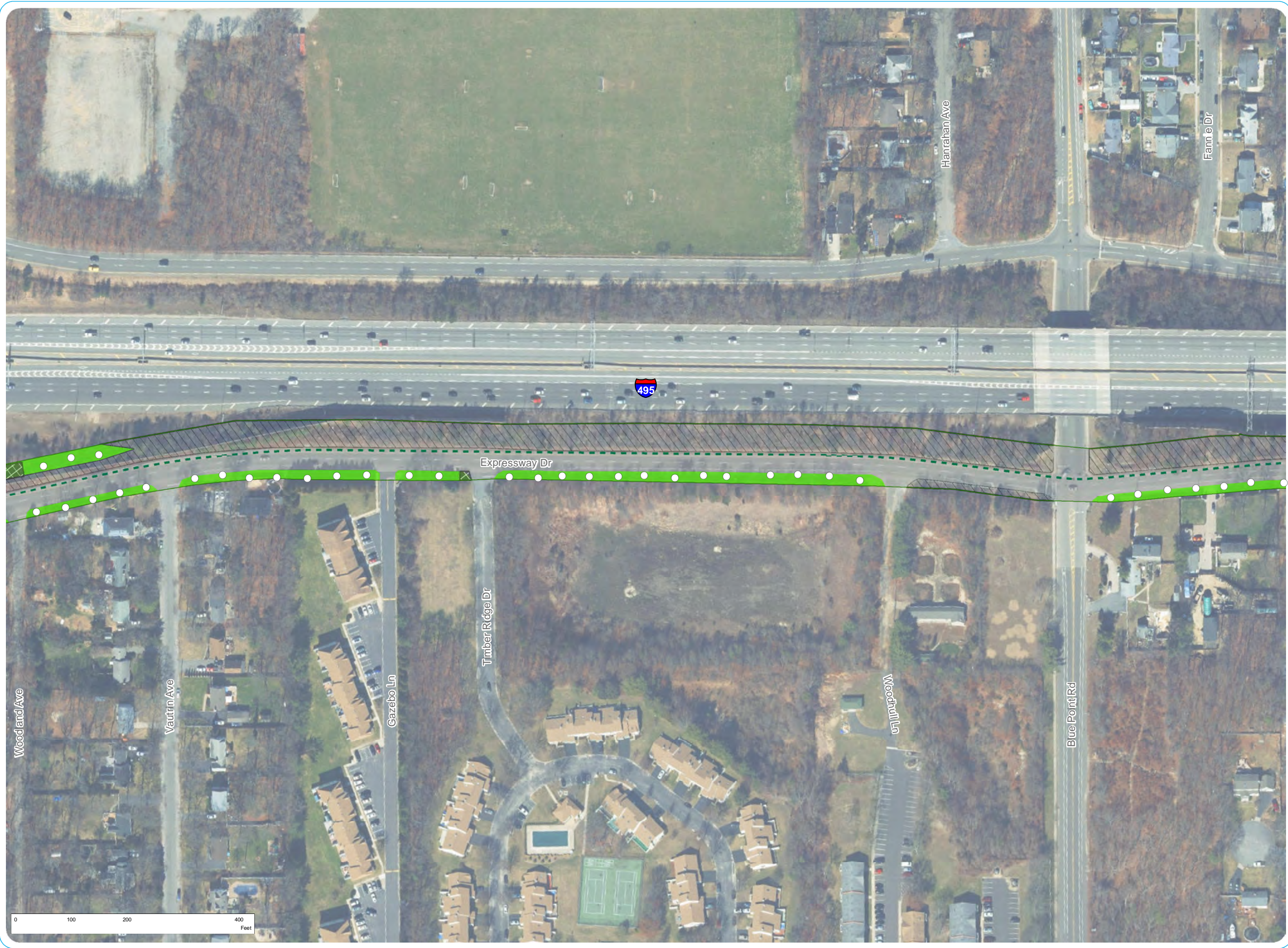
- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Excluded Areas
 - ▨ Disturbed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - DOT Roadway
- Onshore Transmission Cable
 - - - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - Preferred Route



Sheet 29 of 39
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



SW NE



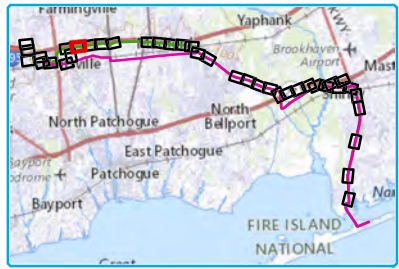
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

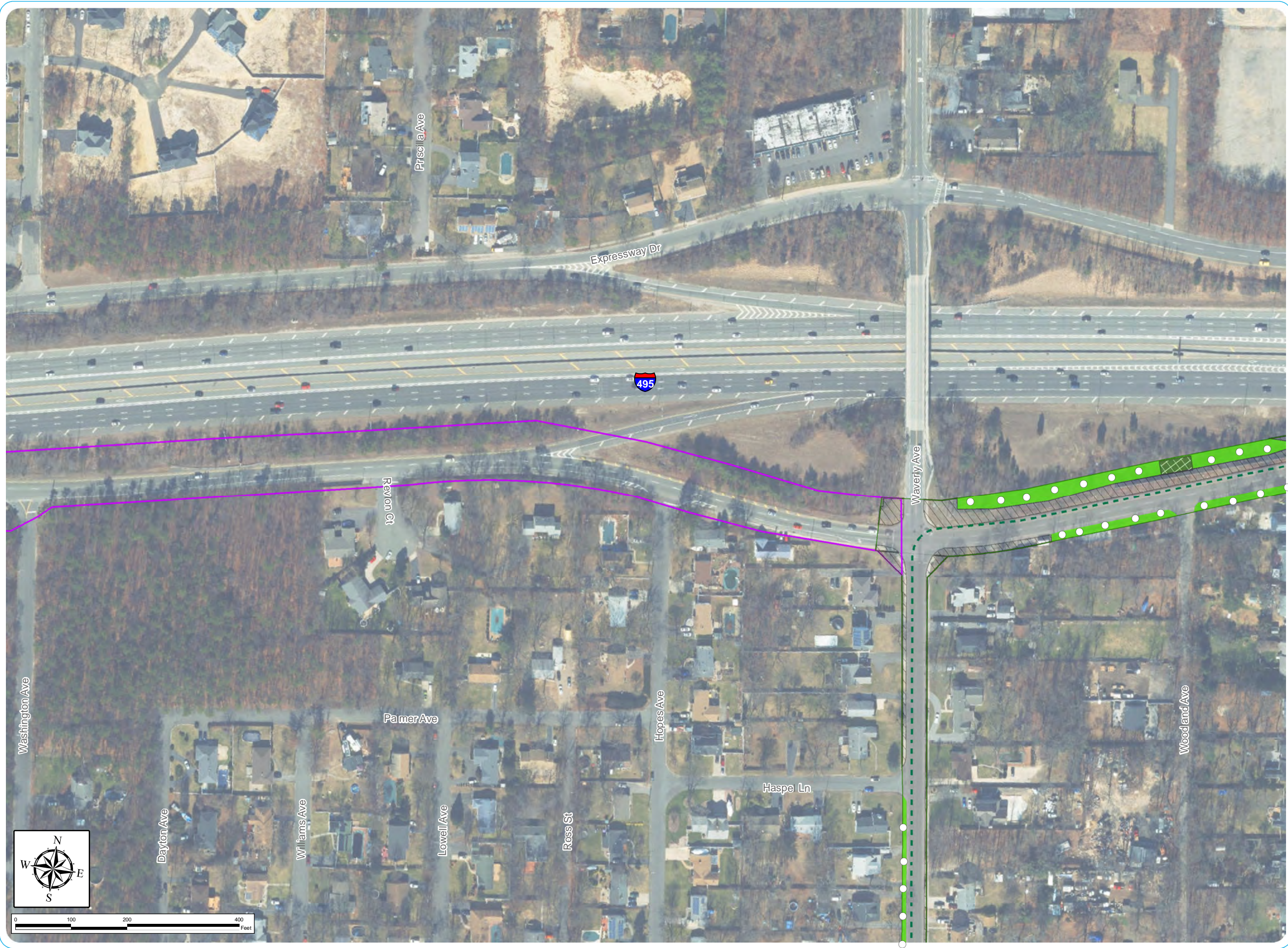
Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Excluded Areas
 - ▨ Disturbed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - DOT Roadway
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - ▭ Preferred Route



Sheet 30 of 39
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale





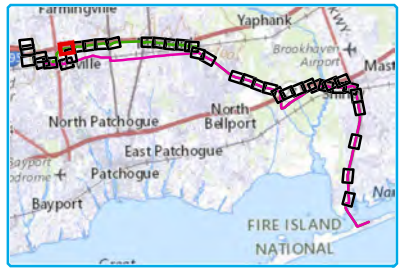
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Excluded Areas
 - ▨ Disturbed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - DOT Roadway
- Onshore Transmission Cable
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - ▭ Preferred Route
 - ▭ Off-Route Variations



Sheet 31 of 39
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



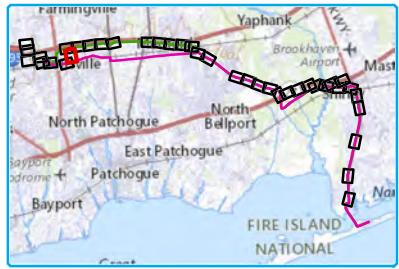
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Excluded Areas
 - ▨ Disturbed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - DOT Roadway
- Onshore Transmission Cable
 - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - ▭ Preferred Route
 - ▭ Off-Route Variations



Sheet 32 of 39
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



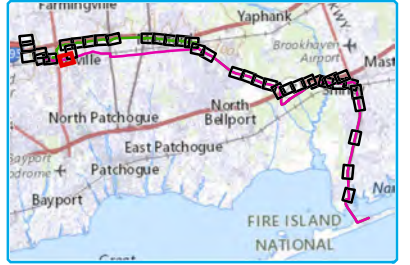
Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

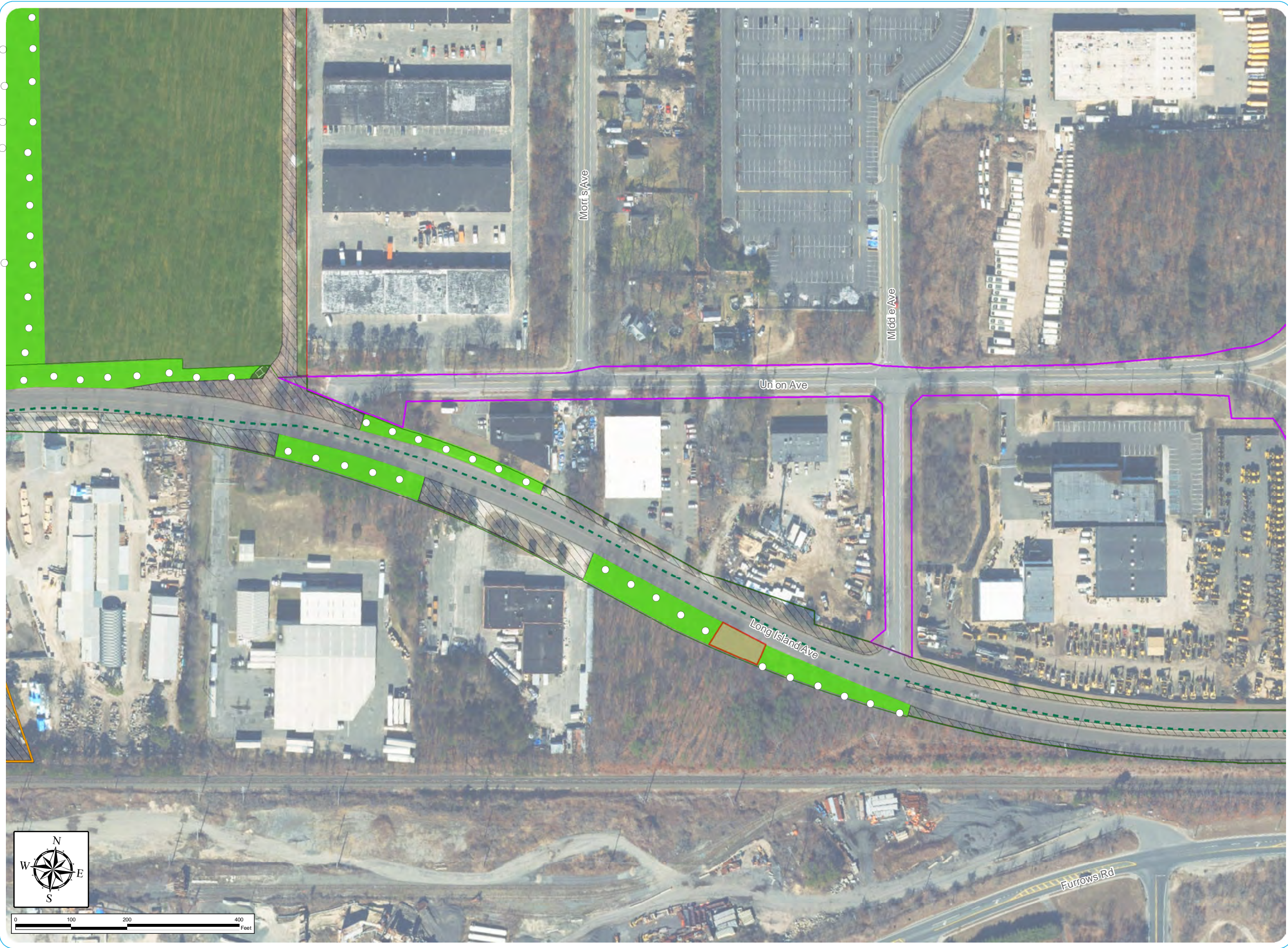
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- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Excluded Areas
 - ▨ Disturbed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
- DOT Roadway
 - DOT Roadway
- Onshore Transmission Cable
 - - - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - ▭ Preferred Route
 - ▭ Off-Route Variations



Sheet 33 of 39
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale





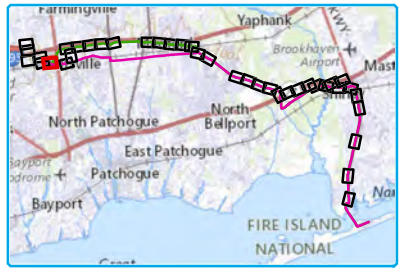
Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Excluded Areas
 - ▨ Disturbed
 - Steep Slope
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - DOT Roadway
- Onshore Transmission Cable Corridor
 - Onshore Transmission Cable
 - ▭ Preferred Route
 - ▭ Onshore Interconnection Cable Corridor
 - ▭ OnCS-DC
 - ▭ Off-Route Variations



Sheet 34 of 39
Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



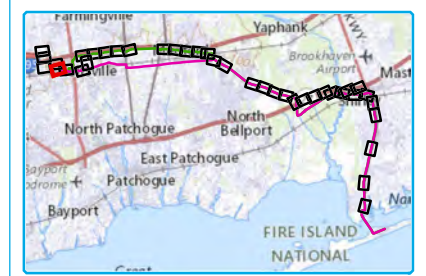
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

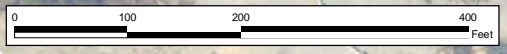
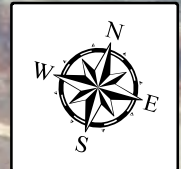
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- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Surveyed
- Excluded Areas
 - ▨ Disturbed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - DOT Roadway
- Onshore Transmission Cable
 - - - Onshore Transmission Cable
- Onshore Transmission Cable Corridor
 - ▭ Preferred Route
 - ▭ Onshore Interconnection Cable Corridor
 - ▭ OnCS-DC
 - ▭ Off-Route Variations
- Onshore Interconnection Cable
 - - - Onshore Interconnection Cable



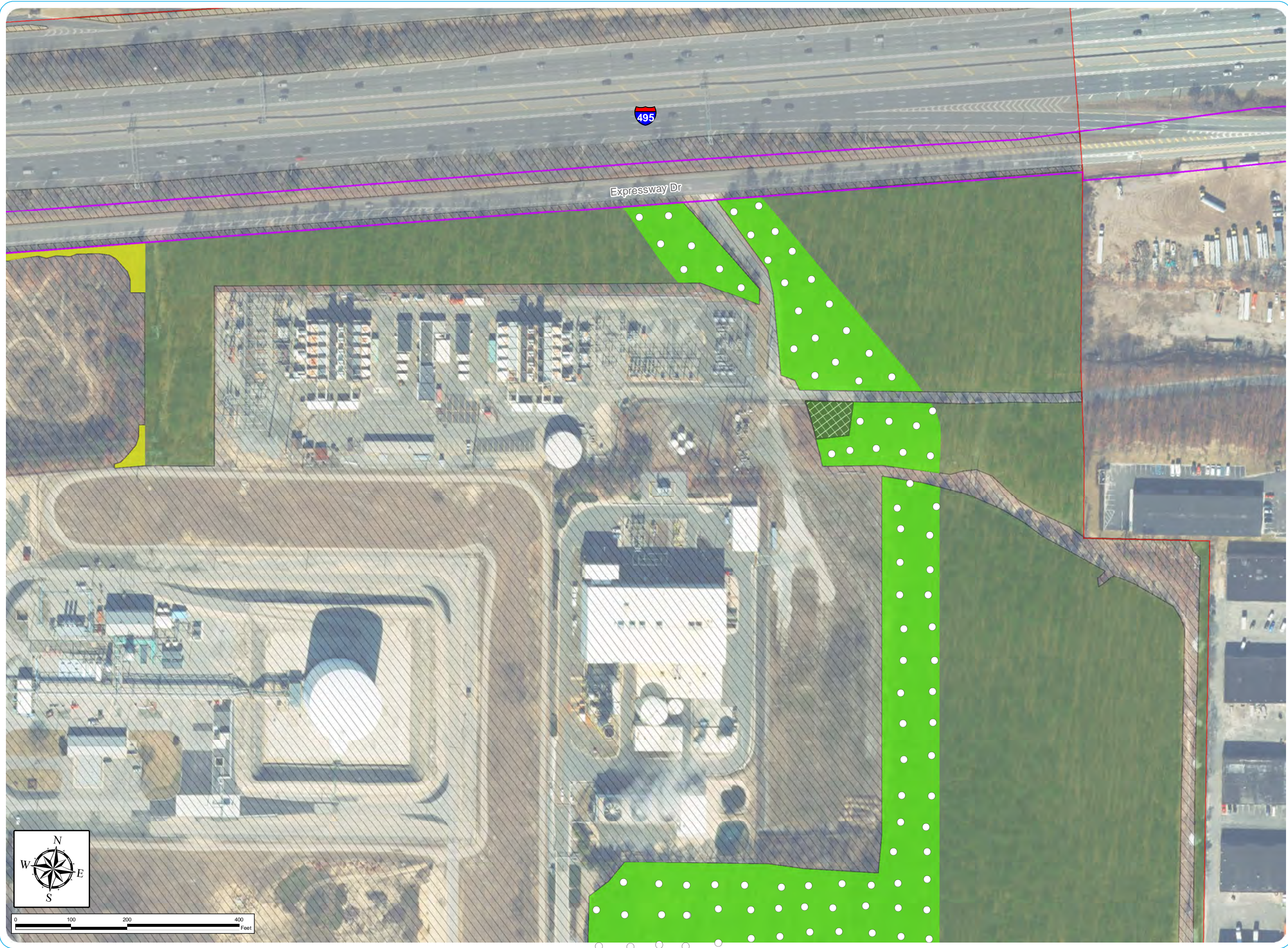
Sheet 35 of 39

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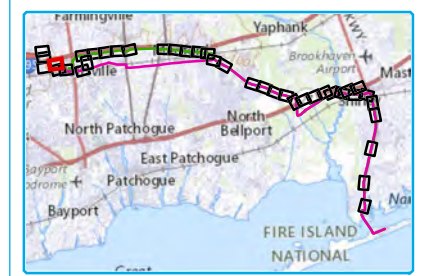
Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

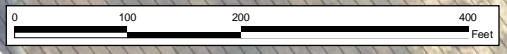
Note: Partially redacted

- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Not Surveyed (Inaccessible)
 - Surveyed
- Excluded Areas
 - ▨ Disturbed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
 - DOT Roadway
- Onshore Transmission Cable Corridor
 - ▭ Onshore Interconnection Cable Corridor
 - ▭ Off-Route Variations



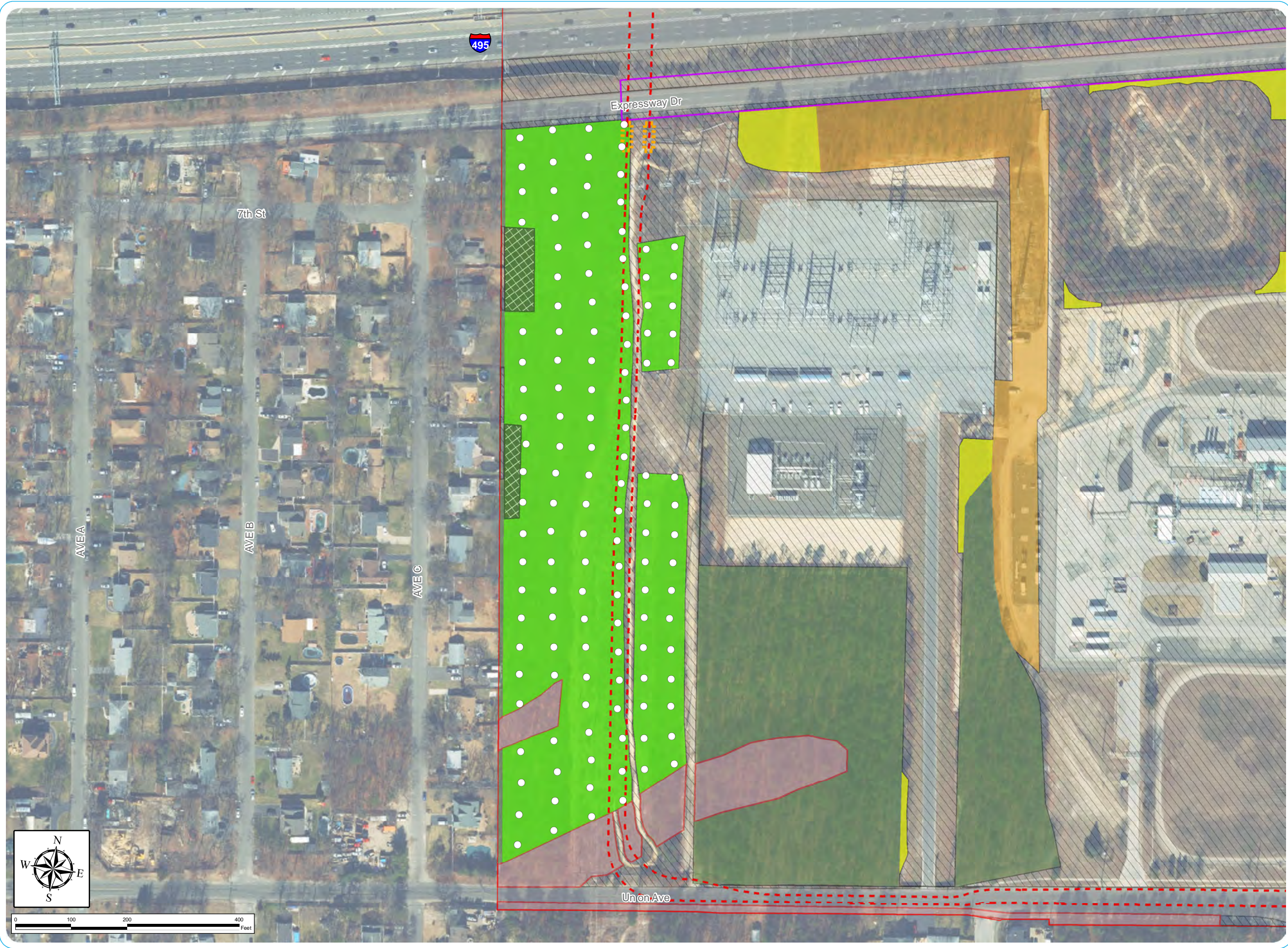
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Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



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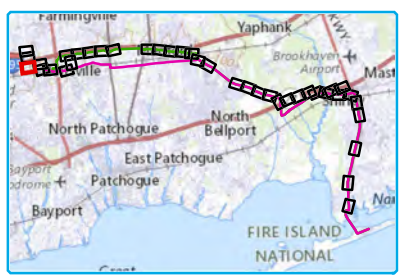
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

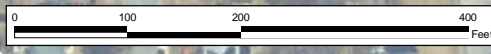
Note: Partially redacted

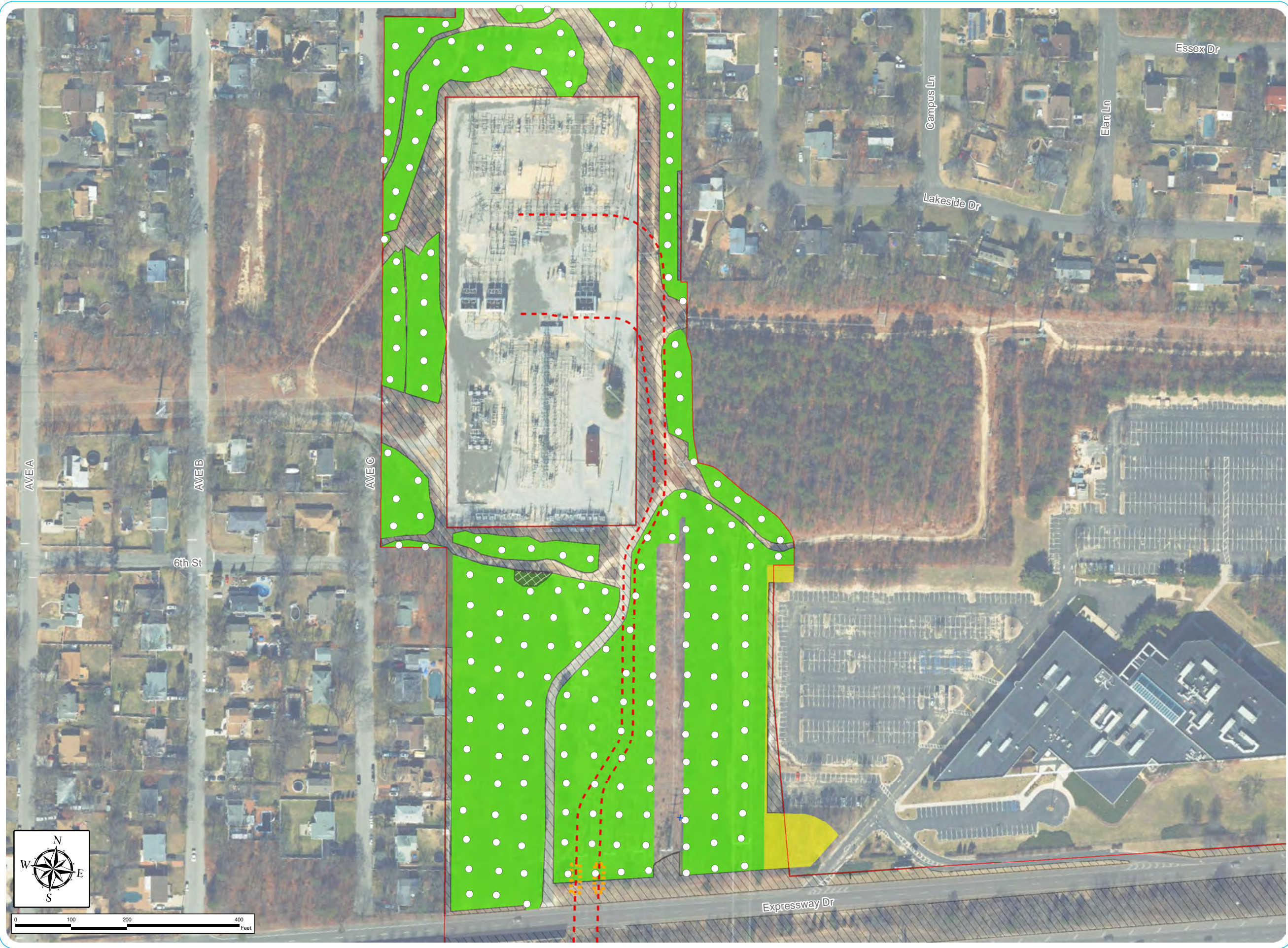
- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Not Surveyed (Inaccessible)
 - Surveyed
- Excluded Areas
 - ▨ Disturbed
- Archaeological Reconnaissance Results
 - Steep Slope
 - ▨ Disturbed
 - Potentially Undisturbed
 - Previously Tested
 - DOT Roadway
- Onshore Transmission Cable Corridor
 - ▭ Onshore Interconnection Cable Corridor
 - ▭ Off-Route Variations
 - - - Onshore Interconnection Cable
 - ▭ Trenchless Footprint



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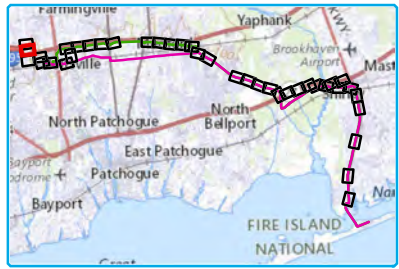
Sunrise Wind Farm

Town of Brookhaven,
Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase IB Surface Find
 - + Historic-Period Artifact(s)
- Phase IB Shovel Test
 - STP Location
- Phase IB Survey Area
 - Not Surveyed (Inaccessible)
 - Surveyed
- Excluded Areas
 - Disturbed
- Archaeological Reconnaissance Results
 - Disturbed
 - Potentially Undisturbed
 - DOT Roadway
- Onshore Transmission Cable Corridor
 - Onshore Interconnection Cable Corridor
 - Onshore Interconnection Cable
 - Trenchless Footprint



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Notes: 1. Basemap: ESRI ArcGIS Online "World Imagery (Clarity)" map service. 2. This is a color graphic. Reproduction in grayscale



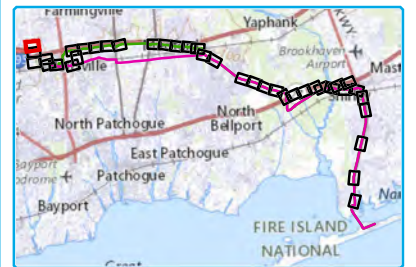
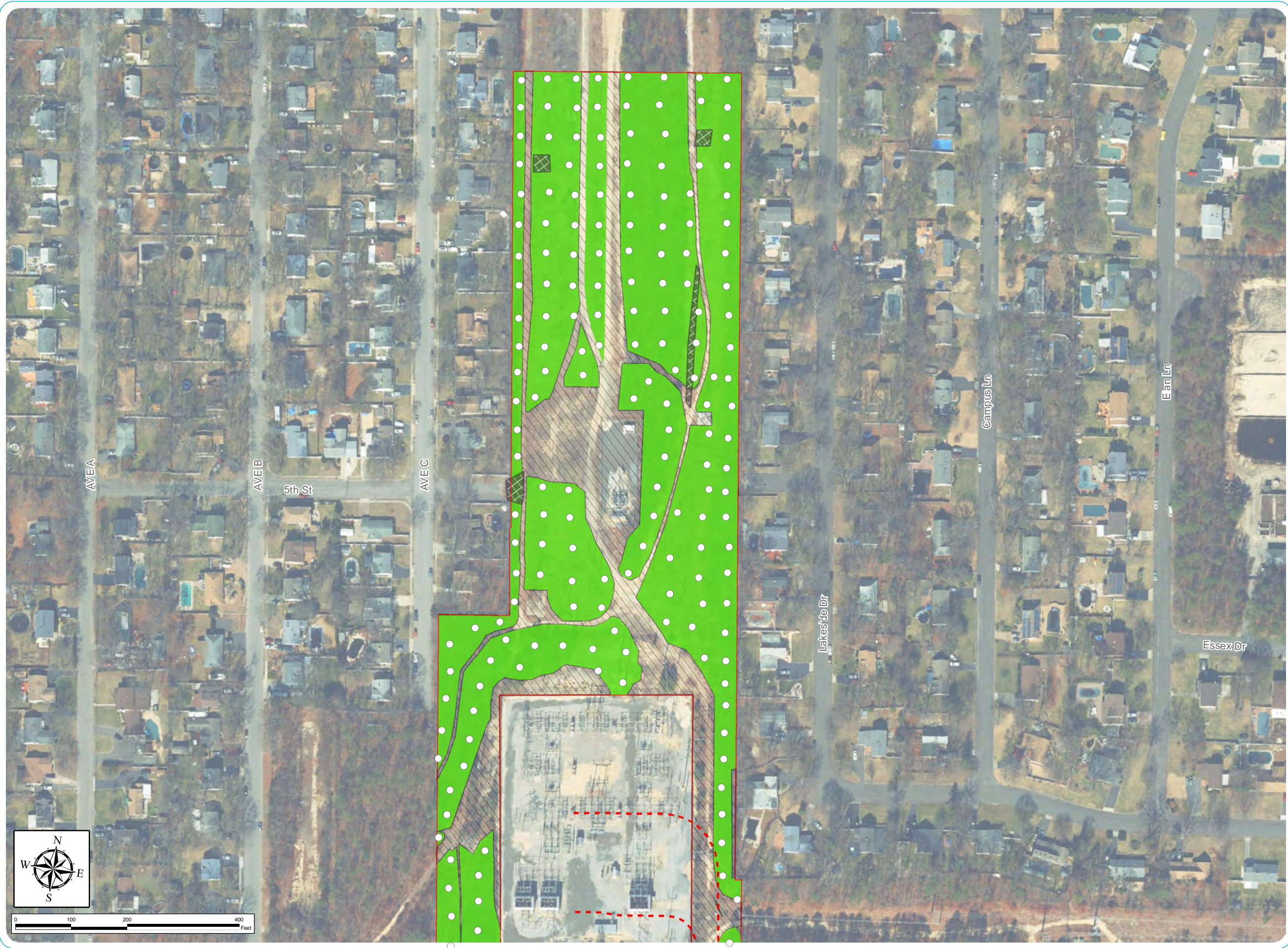
Sunrise Wind Farm

Town of Brookhaven, Suffolk County, New York

Figure 3.2-1: Phase 1B Archaeological Survey Results

Note: Partially redacted

- Phase 1B Shovel Test
 - STP Location
- Phase 1B Survey Area
 - Surveyed
- Excluded Areas
 - ▨ Disturbed
- Archaeological Reconnaissance Results
 - ▨ Disturbed
 - Potentially Undisturbed
- Onshore Transmission Cable Corridor
 - ▭ Onshore Interconnection Cable Corridor
 - - - Onshore Interconnection Cable



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Appendix A:
Agency and Stakeholder Correspondence

**STANDARDS FOR
ARCHAEOLOGICAL RESOURCE IDENTIFICATION STUDIES
PERFORMED UNDER THE
ARCHAEOLOGICAL RESOURCES PROTECTION ACT (P.L.96-95)
FOR REGION 5, U.S. FISH & WILDLIFE SERVICE LANDS**

INTRODUCTION

The purpose of these standards is to ensure that archaeological resource identification studies on Region 5 (hereafter, the Region) U.S. Fish & Wildlife Service (Service) lands permitted under the Archaeological Resources Protection Act (ARPA) meet the same performance standards required for studies done by the Regional Archaeological Staff or contracted by the Service. These standards apply to all non-Service entities in the Region, including private individuals, institutions, and corporations, as well as other federal, state, or local government agencies.

Performance to these standards is intended to ensure comparability and reliability of information on archaeological resources within Service property, and also to ensure that the Service's requirements for background data collection, sampling method and intensity, and material analysis and conservation are fully understood by the applicant before permits are issued. The latter is particularly important if the applicant proposes a Phase I Cultural Resource Management (CRM) study as part of a project's National Environmental Policy Act (NEPA) and National Historic Preservation Act (NHPA) compliance.

The Service understands that standards for Phase I survey fieldwork and reporting issued by the State Historic Preservation Office (SHPO) in each of the 13 states covered by Region 5 differ from these standards to varying degrees. ARPA applicants are assumed to be aware of the applicable SHPO standards. **Where differences exist between the Service's and the SHPO standards, the stricter standard will apply.** If a direct conflict in requirements appears to exist, the Regional Historic Preservation Officer (RHPO) should be informed during the application process, so that the conflict can be resolved before the permit is issued.

APPLICATION REQUIREMENTS

In addition to the requirements on the application form, all applications must be accompanied by a thorough description of the proposed study, illustrated with appropriate maps of the area. The text of the funding entity's scope and applicants return proposal will usually suffice for CRM proposals. Grant proposals will often suffice for studies funded in that manner.

Curriculum vitae of key personnel, including all individuals directing work in the field, are also required, to confirm that they fulfill the Secretary of the Interior's Standards for practicing archaeology.

STUDY COMPONENTS

Studies will be accomplished in phases involving background and literature review, fieldwork, analysis of data obtained through the fieldwork, and management recommendations (including impact evaluation in the case CRM studies).

1. Background and Literature Review. This element should expand upon and synthesize extant data. It should include general prehistoric and historic background supplemented by locally specific archaeological data and paleoecological and geological reconstruction. Site records and reports of previous studies in the vicinity should be examined at the SHPO and elsewhere, to place recorded sites in context. In addition to published texts and maps, some recourse to unpublished records and collections, and interviews with knowledgeable individuals in the vicinity will probably be necessary. The resulting body of data will need to be synthesized, placed in the larger context of local, state, and regional prehistory and history, and explicitly tied to the report conclusions.

2. Fieldwork. Phase I fieldwork will typically be done with the intention of determining presence of archaeological resources. As discussed in the section on Recommendations (below), applicants undertaking CRM surveys are advised to also obtain a preliminary determination of vertical and horizontal dimensions of any located archaeological sites, the contextual integrity of cultural deposits, and cultural affiliation of components. The report should contain a justification of the methodology used, and detailed description of the testing program.

a. Standard Testing Strategy. The strategy outlined below is expected for all CRM related ARPA permitted fieldwork, unless a rationale for other approaches has been accepted by the RHPO. As outlined at the end of this section, alternative strategies may be desirable and effective for other types of studies or CRM studies in specific environments.

A staggered, 8-meter interval shovel test grid is the standard for work performed by Service Archaeologists and contractors employed by the Service in this Region. Shovel test pits shall measure 50 x 50 cm square, and shall be excavated to a depth of at least 50 cm below the ground surface *and* to the depth of sediments that are over 12,000 years in age. Extensive professional literature and the Service Archaeologists' considerable personal experience have both consistently shown that larger intervals are unlikely to locate small sites expected in the environmental setting which characterize most of our Region's National Wildlife Refuges. Conversely, most sites found by our surveys would have been missed by testing intervals exceeding this interval, especially if intervals of 15-25 meters (**minimum** intervals in SHPO standards for some states) had been employed.

For similar reasons, use of small diameter excavation tools, such as post hole diggers, augers or corers, is not generally approved except as a supplement to shovel testing. The probability of intercepting archaeological material or features and correctly identifying them has been shown to decrease dramatically if such tools are employed exclusively. However, these tools are often appropriate to recover evidence such as geomorphology, palynology, or evidence of modern disturbance.

All identified features must have soil profiles drawn, sampled, and analyzed using Munsell readings and USDA soil typology. **All excavated soils must be screened through 1/4" (or finer) hardware mesh.**

If a study area is known to have been plowed in the past, it is appropriate to supplement this testing strategy by shallow disking and a close interval walkover survey. Unless otherwise agreed, such a walkover does not completely substitute for subsurface testing.

The RHPO and the Federal Land Manager shall be immediately contacted if human remains (or suspected human remains) or objects of a clearly ceremonial or funerary nature are encountered, and archaeological work will immediately cease in that area. The RHPO will initiate consultation with the SHPO and potentially affiliated communities, including Native American tribal governments.

b. Alternative Approaches. Different approaches (such as remote sensing technology, or variations in intensity of sampling) will be considered if appropriate rationale is provided by the permit applicants. Examples of studies which may require different approaches could include surveys undertaken for academic research, monitoring of long-term impacts (such as statewide environmental management programs), historic resource planning efforts, or emergency salvage of archaeological resources.

Examples of field situations which may require differing methods could include areas containing already located archaeological resources, areas known or expected to contain human remains, areas where substantial disturbance or modern soil accumulation can be documented, areas of deep alluvium, and wetland or marine environments.

3. Analysis and Curation In addition to the types and levels of artifact analysis generally required by SHPOs for Phase I surveys, radiocarbon, soil, floral, and faunal samples must be collected if found in uncontaminated contexts, and **fully analyzed**, including grain size for soil samples, standard or AMS dates for carbon, and genus/species level faunal and floral identification study. This requirement is intended to avoid a nationwide problem resulting from many early CRM surveys: curated samples remaining unanalyzed years after projects were completed and project funding terminated.

The applicant will be responsible for safeguarding and maintaining all artifacts, and material samples not expended in analysis, together with all associated records, photographs, maps, and other data, to the conservation and curation standards of the Department of the Interior and the selected curation facility.

The applicant will be responsible for labeling and packaging materials according to the facility standards, and effecting their transfer at the conclusion of the study. **Any fees for curation shall be incurred by the applicant.** The RHPO shall be notified of the transmittal by a copy of the Artifact Transmittal Form with an attached Inventory, signed by both the contractor and repository representative.

The applicant is responsible for ensuring curation of all records and materials recovered in this study at a repository approved by the U. S. Fish and Wildlife Service. The curation facility shall be identified in the final report. Curation facilities within the state in which the survey was done and supported by public funds are preferred. The RHPO will inform the applicant if a curation agreement for Service collections already exists with a repository in the state, and will assist the applicant in placing their collection there, if possible. Artifact catalog sheets must be appended to the final report.

4. Recommendations and Impact Evaluation. The purpose of the assessment of individual sites identified during the inventory stage is to recommend management strategies for them over both the short and long term. Discussion of their susceptibility to looting, damage from natural causes, or potential for educational interpretation is considered appropriate here, in addition to any assessment of immediate or long-term impacts which may occur as a result of a CRM permit applicant's project.

In cases where a survey is done as part of compliance with NEPA and NHPA, the Service considers **impact avoidance** of archaeological resources within its lands as the **recommended treatment** of these resources. If avoidance cannot be assured, project proponents must thoroughly and explicitly describe why this is the case.

Therefore, any data obtained on site limits at this stage is an essential part of impact assessment, as is the discussion of potential eligibility for inclusion in the National Register of Historic Places. Applicants are especially encouraged to consider this in scoping their proposals, as greater development of such information in a Phase I may enable their project to avoid impact, and save the cost and time of further archaeological studies. Permits for further studies for National Register eligibility and impact mitigation must be sought if avoidance of resources cannot be assured.

REPORT

The Service requires two copies of a draft report and two of a final report on archival quality paper, one bound and one unbound, detailing the work done, the survey results, and recommendations for further studies if necessary. The report shall include, (but is not limited to) the following elements: abstract, table of contents and list of figures, introduction, methodology, brief evaluation of previous work in the area, consideration of identified cultural resources in the area, analysis of data collected, recommendations, summary, and bibliography.

The abstract shall be a synopsis of the report, including an outline of the scope of study, field and laboratory methods, and results-both in terms of resources identified and in terms of recommendations for avoidance of resources or further archaeological study. The location of the study shall be noted in the abstract in terms of landform and drainage basin, as well as township, county, and state.

The introduction shall include, but is not limited to the following: the purpose of the survey, delineation of the study boundaries, and a general statement concerning the nature

of the study conducted.

The background and literature review shall place the study area in its regional setting with regard to environmental factors affecting the location of cultural resources and the known culture history, which should be **briefly** summarized and **explicitly** linked to the applicant's study location. The report shall contain a brief evaluation of previous archaeological and historical studies of the region, including dates, extent, and adequacy of past work as it reflects on the interpretation of what might be found in the study area

The methodology used in data collection and analysis shall be described in sufficient detail for a reviewer to understand what was done and why. This shall include a discussion of surveying and sampling procedures, the types of data collected, artifact and feature retrieval procedures, recording techniques, classificatory scheme, method of chronological determination, and any special analytical techniques.

Maps, diagrams, and photographs that show the survey areas, locations of individual excavation units, and locations of all identified cultural resources, shall be included. All maps will include a north arrow and graphic scale in metric measurement. For historic period resources, an English measure scale must also be provided. At least one map must be a section of a U.S. G. S. quadrangle showing the study area in relation to recorded sites and the federal land boundary. **All** excavation unit profiles, clearly showing artifact and sampling locations shall also be included in the report. If many profiles are involved, they may be placed sequentially in an appendix, with typical and/or noteworthy ones illustrated in the main body of the report.

The inventory of all located cultural resources in the study area shall include an estimate of the aerial extent of the sites. The Service recognizes that the accuracy of this will reflect the level of field effort. As discussed in the preceding section, applicants for CRM survey permits are encouraged to strive for greater accuracy in this estimate than may be typical of Phase I survey, so that the Service's policy of impact avoidance can be implemented where possible.

Recommendations for each site should discuss whether or not further work is needed to determine National Regional eligibility; current, past, and projected impacts to the site; and (for CRM studies) whether or not project redesign can avoid impact on the site. Reference should be made to SHPO Site Contexts during this discussion, but it should not be limited by them.

U.S. Fish and Wildlife Service Region 5 Site Forms and state site forms shall be completed for all sites, and an artifact catalog shall be included in the report. State site numbers and U.S. Fish & Wildlife Service site numbers shall be used throughout the report, for both recorded and newly discovered sites.

GUIDELINES FOR ADMINISTRATIVE PROCEDURES

1. All phases of the study shall be closely coordinated with the Service's Regional Historic Preservation Officer at the Regional Office in Hadley, Massachusetts (Amy Wood, Tel. 413-253-8297). Applicants are required to maintain routine telephone contact with the Service's Archaeologist while work is being conducted, including notification of start and completion dates for fieldwork.
2. Applicants assume all responsibility for liabilities incurred to themselves, equipment, or to sites being studied during this work. All excavations must be backfilled at completion of fieldwork, and reseeded may be required at the direction of the Federal Land Manager (Refuge manager or equivalent).
3. **Applicants are required to obtain a Special Use Permit from the Federal Land Manager before beginning work** and to maintain close contact with that person during field work.
4. As noted earlier, the RHPO and the Federal Land Manager will be immediately contacted if human remains or objects of a clearly ceremonial or funerary nature are encountered, and work will immediately cease in that area. The RHPO will initiate consultation with the SHPO and potentially affiliated communities, including Native American tribal governments.
5. In some cases, the Service may request a Native American tribal government to comment on a permit application. This consultation will be performed by the Service's Regional Historic Preservation Officer, using information provided by the applicant. The Service may refuse to issue a permit or require modification of the applicant's study based on comments received from the tribal government.

Appendix B: Photographs



Photo 1

Survey Area WF08 overview of manicured grass roadside adjacent to sidewalk. Part of the Preferred Route along William Floyd Parkway between the East Concourse and Lombardy Drive. View to the north.



Photo 2

Crew excavating STP WF07.09 in a cut grass roadside adjacent to sidewalk. Part of the Preferred Route along William Floyd Parkway between Brushwood Drive and Havenwood Drive East. View to the northeast.

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Photo 3

STP WF07.12 profile with a disturbed Fill horizon capping intact subsoil. Part of the Preferred Route along William Floyd Parkway. View to the east.



Photo 4

Survey Area WF05 overview of manicured lawn between paved sidewalk and chain-link fence. Part of the Preferred Route along William Floyd Parkway north of Coraci Boulevard. View to the northeast.

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Photo 5

Survey Area WF03 overview of brush covered flat east of guardrail. Part of the Preferred Route along William Floyd Parkway between Fleet Road and Linden Avenue. View to the southeast.



Photo 6

Survey Area WF04 southern half overview of manicured yards near landscaped beds and decorative plantings. Part of the Preferred Route along William Floyd Parkway between Stuart Road and Essex Circle. View west of north.

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Photo 7

Survey Area WF04 northern half overview of cut grass roadside between paved sidewalk and deciduous tree and shrub hedgerow. Part of the Preferred Route along William Floyd Parkway between Stuart Road and Essex Circle. View west of north.



Photo 8

Survey Area WF01 overview of deciduous wooded lot east of cut grass and paved sidewalk. Part of the Preferred Route along William Floyd Parkway between Tudor Road and Essex Circle. View to the south.

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Photo 9

Survey Area SC01 overview of mixed deciduous and coniferous wooded lot west of cut grass roadside. Part of the Preferred Route along Surrey Circle between William Floyd Parkway and Northern Boulevard. View to the southeast.



Photo 10

Survey Area MB01 overview of manicured lawns, driveways, and buried utilities fronting residential yards. Part of the Preferred Route along the south side of Mastic Boulevard West near the intersection with Francine Place. View to the east.

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Photo 11

Survey Area FP01 overview on a manicured grass roadside with a buried gas service. Part of the Preferred Route along the west side of Francine Place near the intersection with Mastic Boulevard West. View to the north.



Photo 12

Survey Area I02 overview of the wooded area between the dug-out retention basin (slope visible photo right) and chain link fence. Part of the Preferred Route along the east side of Revilo Avenue, south of the Sunrise Highway. View to the west.

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Photo 13

Survey Area I01 overview of the flat wooded area between Revilo Avenue and the Sunrise Highway exit ramp. Part of the Preferred Route along the east side of Revilo Avenue, north of the Sunrise Highway. View to the south.



Photo 14

Survey Area H09 overview of cut grass residential yards. Part of the Preferred Route along the south side of Victory Avenue between Revilo Avenue and River Road. View to the east.

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Photo 15

Survey Area H10 overview of low-lying woodland on the east bank of the Carmans River. Part of the Preferred Route along the north side of Victory Avenue west of River Road. View to the east.



Photo 16

STP H10.02 soil profile, showing thick humic O horizon with developing A overlying sandy subsoils. Groundwater inundation at the base of excavation. View to the south.



Photo 17

Survey Area H01 overview of low-lying woodland surrounding a paved access road between a man-made lake and the Carmans River. Part of the Preferred Route along the north side of Victory Avenue within Southaven County Park. View to the north.



Photo 18

Survey Area H02 overview of low-lying woodland south of a man-made lake. Part of the Preferred Route along the north side of Victory Avenue within Southaven County Park. View to the east.



Photo 19

Survey Area H11 overview of manicured grass lawns fronting residential parcels. Part of the Preferred Route along the north side of Victory Avenue to the east of Equestrian Way. View to the east.



Photo 20

Survey Area H05 overview of grass covered roadside south of an agricultural field. Part of the Preferred Route along the north side of Victory Avenue between Equestrian Way and Strawberry Lane. View to the east.

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Photo 21

Survey Area H06 overview of grass and gravel road shoulder transitioning into slightly elevated woodland. Part of the Preferred Route along the south side of Victory Avenue to the west of Strawberry Lane. View to the west.



Photo 22

Survey Area H08 overview of wide, grass covered yards with slightly elevated woodland in the background. Part of the Preferred Route along the south side of Victory Avenue to the west of Forest Avenue. View to the east.

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Photo 23

Survey Area C08 overview of wide, grass and gravel covered flat road shoulder. Part of the Preferred Route along the south side of Horse Block Road to the east of Yaphank Avenue. View to the northwest.



Photo 24

Survey Area C1 and C4 overview of scrubby pine and oak woodland. Part of the Preferred Route along the south side of Horseblock Road between Woodside and Yaphank Avenues. View to the west-northwest.



Photo 25

Survey Area C6 overview of scrubby oak and pine woodland. Part of the Preferred Route along the north side of Horseblock Road between Grucci Lane and Yaphank Avenue. View to the northwest.



Photo 26

Survey Area C5 overview of wide, mown, grass covered road shoulder. Part of the Preferred Route along the north side of Horseblock Road between Alexan Boulevard and Grucci Lane. View to the east-southeast.



Photo 27

Survey Area C3 overview of scrubby road shoulder with STPs excavated between tree line (right) and deep ditch (left). Part of the Preferred Route along the north side of Horseblock Road between Woodside and Yaphank Avenues. View to the west-northwest.



Photo 28

Survey Area C7 overview of manicured roadside lawn graded to the same elevation as Horse Block Road. Part of the Preferred Route along the south side of Horse Block Road between Industrial Boulevard and Bellport Avenue. View to the northwest.

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Photo 29

Survey Area C2 overview of scrubby road shoulder extending slightly into scrubby oak and pine woodland. Part of the Preferred Route along the north side of Horseblock Road. View to the southeast.



Photo 30

Survey Area C2 overview of wide, mown, grass-covered road shoulder disturbed by several buried utilities (note offset markings along road edge). Part of the Preferred Route along the south side of Horseblock Road. View to the southeast.

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Photo 31

Survey Area HB01 overview of manicured grass lawn fronting residence. Part of the Preferred Route along the north side of North Horse Block Road to the west of Hagerman Avenue. View to the west.



Photo 32

Survey Area HB01 overview of wooded lot with scrub brush and leaf litter ground cover. Part of the Preferred Route along the south side of North Horse Block Road between North Horse Block Road and Long Island Avenue . View to the east.



Photo 33

Survey Area A4 and A5 overview of scrubby oak and pine woodland. Part of the Preferred Route along the south side of the LIE/ Expressway Drive South between the Horse Block Road and Victorian Lane. View to the east-southeast.



Photo 34

Survey Area A9 overview of manicured roadside lawns with multiple buried utility disturbances. Part of the Preferred Route along the south side of the LIE Service Road/Express Drive South east of California Avenue. View to the east.



Photo 35

Survey Area A3 overview of wide, mown, grass covered road shoulder interspersed with small trees and bushes. Part of the Preferred Route along the north side of the LIE Service Road/ Expressway Drive South northwest of the intersection with Medford Road. View to the west.



Photo 36

Survey Area A2 overview extending far into scrubby oak woodland. Part of the Preferred Route along the south side of the LIE Service Road/Expressway Drive South between Old Medford Avenue and North Ocean Avenue. View to the west.

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Photo 37

Survey Area A6 overview of wide road shoulder covered in mown and unmown grass, scrub, and scrubby oak and pine woodland. Part of the Preferred Route along the north side of the LIE Service Road/Expressway Drive South northwest of the intersection with North Ocean Avenue. View to the west-northwest.



Photo 38

Survey Area A8 overview of manicured roadside lawns between paved driveways and decorative plantings. Part of the Preferred Route along the south side of the LIE Service Road/Express Drive South between Abner Drive and Wendy Drive. View to the west.

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Photo 39

Survey Area A8 overview of manicured roadside lawns between paved driveways with multiple buried utility disturbances. Part of the Preferred Route along the south side of the LIE Service Road/Express Drive South between Woodycrest Drive and Abner Drive. View to the west.



Photo 40

Survey Area A7 overview of cut grass roadside north of retention basin. Part of the Preferred Route along the south side of the LIE Service Road/Express Drive South between Blue Point Road and Timber Ridge Drive. View to the west.



Photo 41

Survey Area A7 overview of manicured lawn siding residential parcels. Part of the Preferred Route along the south side of the LIE Service Road/Express Drive South between Vautrin Avenue and Woodland Avenue. View to the west.



Photo 42

Survey Area A1 overview of thick scrub among interspersed scrubby pines and oaks. Part of the Preferred Route along the north side of the LIE Service Road/Expressway Drive South northeast of the intersection with Waverly Avenue. View to the southwest.



Photo 43

Survey Area W01 overview of manicured lawns fronting residential parcels. Part of the Preferred Route along the west side of Waverly Avenue between Haspel Lane and Union Avenue. View to the north.



Photo 44

Survey Area E3 overview of scrubby oak woodland between road (right) and railroad (left). Part of the Preferred Route along the south side of Long Island Avenue between Waverly Avenue and Washington Avenue. View to the west.

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Photo 45

Survey Area E4 overview of low-lying woodland with scrub brush. Part of the Preferred Route along the north side of Long Island Avenue between Waverly Avenue and Washington Avenue. View to the north.



Photo 46

Survey Area E2 overview extending far into scrubby oak woodland. Part of the Preferred Route along the south side of Long Island Avenue between the Middle Avenue and Claremont Avenue. View to the northwest.

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Photo 47

Survey Area E1 overview extending into manicured lawn (snow covered) past sidewalk. Part of the Preferred Route along both sides of Long Island Avenue between the Middle Avenue and Claremont Avenue. View to the east-southeast.



Photo 48

Survey Area D1 overview extending into scrubby pine and oak woodland. Part of the Off-Route Variations along the west side of Ashley Place between Mastic Boulevard West and Montauk Highway. View to the south.

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Photo 49

Survey Area G2 overview extending far into mown grass covered road shoulder up to tree line. Note manholes running down center. Part of the Off-Route Variations along the north side of Montauk Highway between Candido Avenue and Dorset Place. View to the west.



Photo 50

Survey Area G1 overview extending far into mown grass covered road shoulder. Part of the Off-Route Variations along the north side of Montauk Highway between Smith Road and Shoestring Lane. View to the west-southwest.

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Photo 51

Survey Area B1 overview of scrubby oak woodland. Part of the Off-Route Variations along the west side of Yaphank Avenue between Sunrise Highway South Service Road and Sunrise Highway. View to the south.



Photo 52

Survey Area B2 overview extending into scrubby oak woodland. Part of the Off-Route Variations along the west side of Yaphank Avenue between Sunrise Highway North Service Road and Yaphank Avenue. View to the south-southwest.

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Photo 53

Survey Area SI01 overview of the western mixed woodland with heavy leaf litter ground cover. Note the cleared and fenced in residential yard (photo right). Part of the Onshore Interconnection Cable corridor south of the LIE. View to the south.



Photo 54

Survey Area SI01 overview of eastern cleared powerline corridor. Note the disturbed footpath (photo left) and standing tree line/hedgerow (photo right). Part of the Onshore Interconnection Cable corridor south of the LIE. View to the northwest.



Photo 55

Representative soil profile of STP SI03.05 within the undisturbed wooded portion of Survey Area SI01. A/Ao - Bw - BC - C soil horizons. View to the north.



Photo 56

Survey Area NI03 overview of mature growth mixed woodland tree line. Part of the Onshore Interconnection Cable corridor north of the LIE. View to the north.



Photo 57

Survey Area NI02 overview of grass and scrub brush four line/tower wide overhead electrical transmission corridor with mature woodland (photo right). Part of the Onshore Interconnection Cable corridor north of the LIE. View to the south.



Photo 58

Representative soil profile of STP NI02.16 within the mature wooded portion of Survey Area NI02. A/Ao - Bw - BC - C soil horizons. View to the west.



Photo 59

Survey Area NI01 overview of grass and scrub brush overhead electrical transmission corridor with disturbed access roads (photo right). Part of the Onshore Interconnection Cable corridor north of the LIE. View to the northwest.



Photo 60

General view of northern locus of EDR-SRW-001 [REDACTED]. View to the west-southwest.

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Photo 61

General view of southern locus of EDR-SRW-001 [REDACTED]. View to the west-northwest.



Photo 62

Representative sample of quartz debitage from northern locus of EDR-SRW-001. Artifacts pictured are from STP F4.10, Stratum III.



Photo 63

Artifact assemblage from southern locus of EDR-SRW-001. Assemblage consists of 12 thermally-altered rocks and two quartz debitage (upper left and lower right corners).



Photo 64

Battered edge from quartz cobble core from northern locus of EDR-SRW-001.



Photo 65

Representative soil profile within southern locus of EDR-SRW-001 (STP F7.05). View to the west.



Photo 66

Survey Area WF09 overview of western side of William Floyd Parkway, with wooded lot adjacent to sidewalk. Note the buried utility west of the sidewalk. View to the north.

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Photo 67

Survey Area Gr01 overview of wooded island between the lanes of Horseblock Road. Note the dug out drainage channel leading to the concrete culvert. View to the northwest.



Photo 68

Survey Area Mn01 overview of tree line between LILCO substation and LIRR corridor. View to the west.

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Photo 69

Survey Area LI01 overview of wooded island between Long Island Avenue and North Horseblock Road. Note Long Island Avenue visible in background, photo right. View to the east.



Photo 70

Survey Area NYPA overview of mixed woodland with scrub brush and leaf litter ground cover. From the southern portion of the survey area near Union Avenue. View to the east.

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Photo 71

Survey Area NYPA overview of mixed woodland with leaf litter ground cover. Note the buried gas utility and the LIE Service Road/Express Drive South in the background. View west of north.



Photo 72

Survey Area NYPA overview of piles of industrial debris in the area south of the NYPA power plant. View to the south.

**Appendix C:
Shovel Test Records**

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
A1.01	I	0	29	10YR 4/3	Sandy Loam	Modern glass present, not collected.
A1.01	II	29	59	10YR 5/6	Sand	Layer of ironoxide at base of stratum.
A1.01	III	59	70	10YR 4/3	Sand	Very dense
A1.01	IV	70	84	10YR 5/6	Sand	Very compacted, impasse from compaction.
A1.02	I	0	24	10YR 4/3	Loamy Sand	None
A1.02	II	24	52	10YR 4/4	Loamy Sand	None
A1.03	I	0	31	10YR 4/3	Loamy Sand	None
A1.03	II	31	61	10YR 4/4	Sand	None
A1.03	III	61	76	10YR 5/4	Sand	None
A1.03	IV	76	100	10YR 6/2	Sand	None
A1.04	I	0	17	10YR 4/3	Sandy Loam	None
A1.04	II	17	49	10YR 5/6	Sand	None
A1.04	III	49	68	10YR 5/3	Sand	None
A1.04	IV	68	100	10YR 6/2	Sand	None
A1.05	I	0	19	10YR 4/3	Loamy Sand	None
A1.05	II	19	53	10YR 4/4	Sand	None
A1.05	III	53	66	10YR 5/4	Sand	Extremely compact
A1.06	I	0	26	10YR 3/2	Sandy Loam	Landscaped A; plastic, colorless vessel glass, wire
A1.06	II	26	53	10YR 5/8	Sand	None
A1.06	III	53	100	2.5Y 6/4	Sand	Large cobbles
A1.07	I	0	26	10YR 3/3	Sandy Loam	None
A1.07	II	26	47	10YR 5/6	Sand	None
A1.07	III	47	60	10YR 5/4	Sand	None
A1.07	IV	60	74	10YR 6/2	Sand	None
A1.08	I	0	33	10YR 4/3	Sandy Loam	None
A1.08	II	33	77	10YR 5/6	Sand	Greater compaction after 65cmbs.
A1.08	III	77	91	10YR 6/2	Sand	None
A1.09	I	0	20	10YR 3/2	Sandy Loam	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
A1.09	II	20	81	10YR 5/8	Sand	Styrofoam and asphalt
A1.09	III	81	100	2.5Y 6/4	Sand	Large cobbles
A1.10	I	0	20	10YR 3/3	Sandy Loam	None
A1.10	II	20	53	10YR 5/6	Sand	None
A1.10	III	53	68	10YR 6/2	Sand	None
A1.10	IV	68	80	10YR 4/4	Sand	Cobbles increase in size; rock impasse
A2.01	I	0	27	10YR 4/3	Loamy Sand	None
A2.01	II	27	62	10YR 4/6	Sand	None
A2.01	III	62	89	10YR 5/4	Sand	None
A2.01	IV	89	100	10YR 6/2	Sand	None
A2.02	I	0	19	10YR 4/2	Sandy Loam	None
A2.02	II	19	84	7.5YR 4/6	Sandy Loam	Large root at 60cmbs prevented further excavation.
A2.03	I	0	28	10YR 4/3	Loamy Sand	None
A2.03	II	28	64	10YR 4/6	Sand	None
A2.03	III	64	87	10YR 5/4	Sand	None
A2.03	IV	87	100	10YR 6/2	Sand	None
A2.04	I	0	20	10YR 4/3	Loamy Sand	None
A2.04	II	20	63	10YR 4/6	Loamy Sand	None
A2.04	III	63	92	10YR 5/4	Sand	None
A2.04	IV	92	100	10YR 6/2	Sand	None
A2.05	I	0	26	10YR 4/2	Sandy Loam	None
A2.05	II	26	94	10YR 4/4	Sandy Loam	None
A2.05	III	94	100	10YR 5/4	Sandy Loam	Reached 1mbgs
A2.06	I	0	12	10YR 4/3	Sandy Loam	Plastic and Styrofoam discarded
A2.06	II	12	79	10YR 4/6	Loamy Sand	Few plastic discarded; wet and sticky
A2.06	III	79	100	10YR 6/2	Sand	None
A2.07	I	0	18	10YR 4/3	Loamy Sand	None
A2.07	II	18	57	10YR 4/6	Sand	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
A2.07	III	57	85	10YR 5/4	Sand	None
A2.07	IV	85	95	10YR 6/2	Sand	None
A2.08	I	0	18	10YR 4/2	Sandy Loam	None
A2.08	II	18	39	7.5YR 4/4	Sandy Loam	None
A2.08	III	39	90	10YR 4/3	Sandy Loam	None
A2.08	IV	90	100	10YR 6/3	Sand	Reached 100cmbgs.
A2.09	I	0	27	10YR 4/3	Loamy Sand	None
A2.09	II	27	72	10YR 4/6	Loamy Sand	None
A2.09	III	72	97	10YR 5/4	Sand	None
A2.09	IV	97	105	10YR 6/2	Sand	None
A2.10	I	0	12	10YR 4/3	Loamy Sand	Redeposited topsoil
A2.10	II	12	44	10YR 4/6	Loamy Sand	Redeposited subsoil
A2.10	III	44	57	10YR 6/2	Sand	Redeposited topsoil
A2.10	IV	57	100	7.5YR 4/6	Sand	Compact fill with thin lens of 10YR 4/3 sand on top
A3.01	I	0	49	10YR 4/3	Sandy Loam	Oxide lens 18cmbgs, well mixed with 10YR 5/4 throughout. Interpreted as fill deposited during highway construction.
A3.01	II	49	56	10YR 5/4	Sand	Very coarse sand, impasse for dense gravel and cobbles.
A3.02	I	0	22	10YR 4/3	Loamy Sand	None
A3.02	II	22	46	10YR 4/6	Loamy Sand	None
A3.03	I	0	12	10YR 4/3	Loamy Sand	None
A3.03	II	12	84	10YR 4/6	Loamy Sand	Mixed with 10YR 4/3 BN, likely a redeposited/fill layer related to road construction
A3.04	I	0	23	10YR 3/3	Sandy Loam	Modern glass, asphalt present (not collected), interpreted as fill.
A3.04	II	23	64	10YR 3/3	Sandy Loam	Mixed with 10YR 3/2, 4/4. Asphalt fragments present, interpreted as fill.

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
A3.04	III	64	80	10YR 5/4	Sand	Coarse sand, modern tile present. Impasse - dense gravel.
A3.05	I	0	18	10YR 4/3	Loamy Sand	Redeposited topsoil; Styrofoam, colorless vessel glass, brick fragments, and asphalt discarded
A3.05	II	18	39	10YR 4/6	Sand	Redeposited subsoil; asphalt discarded
A3.05	III	39	52	10YR 4/3	Sand	Fill; mottled with Stratum II; asphalt discarded; compact gravel impasse
A3.06	I	0	21	10YR 4/3	Loamy Sand	None
A3.06	II	21	42	10YR 4/6	Loamy Sand	Mixed with 10YR 4/3 BN, likely a redeposited/fill layer replete with chunks of asphalt culminating in an asphalt impasse at 42cmbs
A3.07	I	0	29	10YR 3/3	Sandy Loam	Fill layer, modern glass and asphalt present (not collected).
A3.07	II	29	40	10YR 3/2	Sandy Loam	Fill layer with modern debris.
A3.07	III	40	49	10YR 2.5/2	Sandy Loam	Fill layer, modern debris present, impasse from dense gravel and compact soil.
A3.07	IV	49		NONE/NONE		None
A3.08	I	0	13	10YR 4/3	Sandy Loam	Redeposited topsoil
A3.08	II	13	35	10YR 3/3	Sand	Mottled with 10YR 4/6 sand; compact gravel fill impasse
A3.09	I	0	41	10YR 4/3	Loamy Sand	Mixed with 10YR 4/6 DK YW BN, likely a redeposited/fill layer. Extremely compact.
A4.01	I	0	24	10YR 4/3	Loamy Sand	Modern trash throughout strat
A4.01	II	24	76	10YR 4/6	Loamy Sand	Mixed with 10YR 4/3 BN with modern plastic trash throughout first 30cm of II
A4.01	III	76	86	10YR 6/2	Sand	None
A4.02	I	0	20	10YR 3/2	Sandy Loam	Modern debris present, not collected.
A4.02	II	20	78	10YR 4/4	Sandy Loam	None
A4.02	III	78	100	10YR 5/4	Sand	Excavation terminated, reached 1m depth.

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
A4.03	I	0	44	10YR 4/3	Loamy Sand	Mixed with 10 YR 4/6 DK YW BN and modern plastic trash throughout
A4.03	II	44	78	10YR 4/6	Sand	Redeposited soils with 10YR 5/4 and 10YR 6/2 mixed throughout
A4.03	III	78	92	10YR 6/2	Sand	None
A4.04	I	0	20	10YR 4/2	Sandy Loam	Base of strat is uneven due to slope, average depth given. Modern debris present, interpreted as fill due to following grade of ditch cut.
A4.04	II	20	36	10YR 4/6	Sandy Loam	Base of stratum follows slope, average depth used here. Interpreted as fill.
A4.04	III	36	48	10YR 3/2	Sandy Loam	Interpreted as disturbed due to following the slope of the ditch. Lens of 10YR 4/6 SaLo from 48-50 cmbgs on north (upslope) half of STP only.
A4.04	IV	48	100	10YR 4/3	Sand	Excavation terminated at 100 cmbgs.
A4.05	I	0	26	10YR 4/3	Loamy Sand	Mixed with 10 YR 4/6 and modern plastic trash
A4.06	I	0	6	10YR 3/3	Loamy Sand	Redeposited topsoil; plastic discarded
A4.06	II	6	30	10YR 6/2	Sand	Redeposited subsoil or fill; various colored rocks
A4.06	III	30	54	10YR 4/6	Sand	Redeposited subsoil
A4.06	IV	54	72	10YR 3/2	Loamy Sand	Disturbed original topsoil; mottled with Stratum V
A4.06	V	72	100	10YR 4/6	Sand	Natural subsoil
A4.07	I	0	12	10YR 4/3	Loamy Sand	Modern plastic trash in strat
A4.07	II	12	87	10YR 4/6	Loamy Sand	Redeposited soils, mixed with 10YR 4/3, 10YR 5/4 and 10YR 6/2, likely due to construction activity
A4.08	I	0	22	10YR 4/2	Sandy Loam	Modern debris present, interpreted as fill layer over road cut.
A4.08	II	22	33	10YR 4/6	Sandy Loam	Part of fill over road cut.

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
A4.08	III	33	88	10YR 5/4	Sand	None
A4.08	IV	88	100	10YR 6/3	Sand	Excavation terminated at 100cmbgs.
A4.09	I	0	26	10YR 4/3	Loamy Sand	Modern plastic throughout strat
A4.09	II	26	82	10YR 4/6	Loamy Sand	Mixed with 10YR 4/3 and 10YR5/4, compacted towards end of strat, likely redeposited soils related to road construction activities
A4.09	III	82	100	10YR 5/4	Sand	None
A4.10	I	0	20	10YR 4/3	Sandy Loam	Natural topsoil
A4.10	II	20	68	10YR 4/6	Sand	Natural subsoil; medium sand
A4.10	III	68	100	10YR 6/2	Sand	Natural subsoil; coarse sand
A4.11	I	0	44	10YR 4/2	Sandy Loam	Mixing with 10YR 2/2, 4/6 near base. Push pile and fill.
A4.11	II	44	100	10YR 4/6	Sandy Loam	Excavation terminated at 100 cmbgs.
A5.01	I	0	33	10YR 3/2	Sandy Loam	Modern debris present, push pile.
A5.01	II	33	60	10YR 4/6	Sandy Clay	None
A5.01	III	60	82	10YR 4/4	Sandy Loam	None
A5.01	IV	82	100	10YR 6/4	Sand	Excavation terminated at 100cmbgs
A5.02	I	0	26	10YR 4/3	Silt Loam	Plastic trash throughout strat
A5.02	II	26	56	10YR 4/6	Sandy Clay	Mixed with 10YR 4/3, likely redeposited during construction.
A5.02	III	56	68	10YR 5/4	Sandy Clay	Extremely compacted sand with clay
A5.03	I	0	15	10YR 4/3	Loamy Sand	Natural topsoil
A5.03	II	15	68	10YR 4/6	Loamy Sand	Natural subsoil; medium sand
A5.03	III	68	100	10YR 6/2	Sand	Natural subsoil
A5.04	I	0	20	10YR 4/2	Sandy Loam	Modern debris present throughout.
A5.04	II	20	42	10YR 5/6	Sand	None
A5.04	III	42	60	10YR 4/2	Sandy Loam	None
A5.04	IV	60	84	7.5YR 4/4	Sandy Loam	Very compact, impasse due to compact soil and dense gravel.

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
A5.05	I	0	21	10YR 4/3	Loamy Sand	Plastic trash throughout strat
A5.05	II	21	72	10YR 4/6	Loamy Sand	Redeposited soil mixed with 10YR 4/3 and 10YR 6/2
A5.05	III	72	100	10YR 5/4	Sand	None
A5.06	I	0	32	10YR 4/3	Loamy Sand	Plastic and glass trash throughout strat
A5.06	II	32	52	10YR 5/4	Sand	Mixed with 10YR 6/2, likely redeposited soil due to construction activity
A5.06	III	52	86	10YR 4/6	Sand	Mixed with 10YR 4/3 and 10YR 5/4, likely redeposited during construction
A5.06	IV	86	100	10YR 5/4	Sand	None
A5.07	I	0	21	10YR 4/2	Sandy Loam	None
A5.07	II	21	35	10YR 5/4	Sandy Loam	None
A5.07	III	35	42	10YR 6/2	Sand	None
A5.07	IV	42	52	10YR 4/2	Sandy Loam	None
A5.07	V	52	100	10YR 5/4	Sand	Excavation terminated at 100cmbgs
A5.08	I	0	31	10YR 4/3	Loamy Sand	Plastic and glass trash throughout strat
A5.08	II	31	53	10YR 4/6	Loamy Sand	Mixed with 10YR 4/3, likely redeposited during construction activity
A5.08	III	53	78	10YR 6/2	Sand	Mixed with 10YR4/3, likely redeposited during construction
A5.08	IV	78	82	10YR 5/4	Loamy Sand	Mixed with 10YR 4/3, likely redeposited during construction, extremely compact at base
A5.09	I	0	19	10YR 4/2	Sandy Loam	Asphalt and modern glass present, not collected. Interpreted as fill.
A5.09	II	19	33	10YR 5/6	Sandy Loam	Asphalt present, interpreted as fill.
A5.09	III	33	60	10YR 6/2	Sand	Small lenses of stratum IV present throughout. Undecided if fill or natural.
A5.09	IV	60	82	10YR 4/6	Sandy Clay Loam	Natural soil.
A5.09	V	82	100	10YR 6/2	Sand	Excavation terminated at 100cmbgs.
A5.10	I	0	15	10YR 4/3	Sandy Loam	Redeposited topsoil; plastic discarded

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
A5.10	II	15	42	10YR 4/6	Sand	Redeposited subsoil
A5.10	III	42	70	10YR 6/2	Sand	Fill; various colored non-local rocks
A5.10	IV	70	75	10YR 5/8	Sand	Compact fill
A5.11	I	0	12	10YR 4/3	Loamy Sand	Plastic trash throughout strat
A5.11	II	12	71	10YR 4/3	Sandy Loam	Mixed with 10YR 4/6 and 10YR 6/2, likely redeposited during construction activities. Extreme compaction at base of strat leading to impasse
A5.12	I	0	30	10YR 4/2	Sandy Loam	Filled topsoil on road berm.
A5.12	II	30	76	10YR 4/6	Sandy Loam	Some mixing with stratum I. Fill layer from road berm.
A5.12	III	76	100	10YR 6/2	Sand	Coarse sand. Natural soil, excavation terminated at 100cmbgs.
A5.13	I	0	29	10YR 4/3	Sandy Loam	Fill mottled with 10YR 3/2 sand and Stratum II
A5.13	II	29	80	10YR 5/4	Loamy Sand	Natural subsoil; moist and sticky
A5.13	III	80	100	10YR 6/2	Sand	Natural subsoil
A5.14	I	0	42	10YR 4/3	Loamy Sand	Plastic trash and glass trash throughout
A5.14	II	42	78	10YR 4/6	Loamy Sand	Mixed with 10YR 4/3, likely redeposited from construction activity
A5.14	III	78	88	10YR 5/4	Sand	Extremely compact at base with interlocking cobbles of varying size
A5.15	I	0	27	10YR 4/2	Sandy Loam	Top level of road berm fill.
A5.15	II	27	76	10YR 4/6	Sandy Loam	Fill layer of road berm.
A5.15	III	76	89	7.5YR 4/6	Sandy Clay Loam	Small gravel present, natural soil, impasse from root constriction.
A5.16	I	0	23	10YR 4/3	Loamy Sand	Redeposited topsoil
A5.16	II	23	45	10YR 6/2	Sand	Fill; various colored non-local rocks
A5.16	III	45	60	10YR 5/4	Sand	Fill
A5.16	IV	60	77	10YR 3/3	Sand	Fill; mottled with Stratum V; irregular base boundary

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
A5.16	V	77	100	10YR 4/6	Sand	Fill; irregular surface boundary
A6.01	I	0	31	10YR 4/3	Loamy Sand	Plastic trash in top 10cm of strat
A6.01	II	31	51	10YR 4/6	Sand	High gravel content
A6.01	III	51	82	10YR 6/2	Sand	High gravel content
A6.02	I	0	19	10YR 3/3	Sandy Loam	Disturbed by road construction, modern material found.
A6.02	II	19	58	10YR 4/4	Sand	Natural
A6.02	III	58	100	10YR 5/2	Sand	Coarse sand, excavation terminated at 100cmbgs.
A6.03	I	0	43	10YR 4/3	Loamy Sand	Mixed with 10YR 4/6, likely redeposited during construction. High gravel content.
A6.03	II	43	61	10YR 4/6	Sand	Mixed with 10YR 4/3, likely redeposited during construction. High gravel content.
A6.03	III	61	72	10YR 5/4	Sand	High gravel content, interlocking rocks and cobbles at 72cmbgs
A6.04	I	0	35	10YR 4/2	Sandy Loam	None
A6.04	II	35	54	10YR 5/4	Sand	None
A6.04	III	54	59	10YR 6/2	Sand	Coarse sand, impasse from dense gravel.
A6.05	I	0	44	10YR 4/3	Loamy Sand	Asphalt present in strat
A6.05	II	44	53	10YR 4/6	Sand	Mixed with 10YR 4/3, likely redeposited during construction. Extremely compact with high gravel content.
A6.06	I	0	19	10YR 4/3	Loamy Sand	Redeposited topsoil; plastic and industrial flat glass discarded
A6.06	II	19	30	10YR 5/4	Sand	Compact fill (impasse) industrial flat glass and slag discarded
A6.07	I	0	24	10YR 4/2	Sandy Loam	Disturbance likely from road construction.
A6.07	II	24	76	10YR 4/4	Sandy Loam	Modern debris found near top of stratum, partial disturbance from constr likely.
A6.07	III	76	100	10YR 7/2	Sand	Coarse sand.
A6.08	I	0	18	10YR 4/3	Loamy Sand	Plastic trash at top of strat

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
A6.08	II	18	36	10YR 4/6	Sand	Rubber fragment (not collected), strat was extremely compacted leading to impasse
A6.09	I	0	10	10YR 4/2	Loamy Sand	Redeposited topsoil
A6.09	II	10	79	10YR 5/4	Sand	Compact fill; mottled with Strata I and III
A6.09	III	79	100	10YR 6/2	Sand	Natural subsoil
A6.10	I	0	53	10YR 4/3	Loamy Sand	Mixed with 10YR 4/6, likely redeposited during construction activity.
A6.10	II	53	65	10YR 4/6	Sand	Mixed with 10YR 4/6, likely redeposited during construction. Concreted sand/gravel at 65 leading to impasse.
A6.11	I	0	28	10YR 4/2	Sandy Loam	None
A6.11	II	28	100	10YR 4/6	Sandy Loam	Excavation terminated at 100cmbgs.
A6.12	I	0	12	10YR 4/3	Sandy Loam	Natural topsoil
A6.12	II	12	42	10YR 4/6	Sandy Loam	Natural subsoil
A6.12	III	42	74	10YR 5/3	Sand	Natural subsoil
A6.12	IV	74	100	10YR 6/2	Sand	Natural subsoil
A6.13	I	0	34	10YR 4/3	Loamy Sand	None
A6.13	II	34	45	10YR 4/6	Sand	Mixed with 10YR 4/3, likely redeposited during construction.
A6.14	I	0	23	10YR 4/2	Sandy Loam	None
A6.14	II	23	48	10YR 4/6	Sandy Loam	None
A6.14	III	48	66	10YR 6/2	Sand	None
B1.01	I	0	25	10YR 4/3	Sandy Loam	Plastic trash throughout strat
B1.01	II	25	46	7.5YR 5/6	Loamy Sand	Medium-coarse sand with loam, in tact soil
B1.01	III	46	78	10YR 6/3	Loamy Sand	Medium to coarse sandwich loam, intact soils
B1.02	I	0	17	10YR 5/3	Loamy Sand	Ao/Ae
B1.02	II	17	67	10YR 4/6	Loamy Sand	B- silty coarse sand, wet
B1.02	III	67	80	10YR 4/6	Sand	Bw - wet silty coarse sand
B1.03	I	0	26	10YR 4/3	Sandy Loam	Some plastic in strat I

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
B1.03	II	26	56	10YR 4/6	Loamy Sand	Medium-coarse sand with loam, in-tact soil horizon
B1.03	III	56	90	10YR 6/3	Loamy Sand	Intact soils
B1.03	IV	90	100	10YR 6/4	Sand	Intact soils
B1.04	I	0	13	10YR 3/3	Loamy Sand	Road fill/landscaped A
B1.04	II	13	77	10YR 4/6	Loamy Sand	Natural subsoil
B1.04	III	77	100	10YR 5/8	Sand	Coarse sand; natural subsoil
B2.01	I	0	32	10YR 5/4	Loamy Sand	Fill- green bottle glass, plastic, styrofoam, asphalt not collected
B2.01	II	32	83	10YR 4/3	Loamy Sand	Fill2- asphalt, green bottle glass not collected
B2.01	III	83	100	10YR 5/4	Sand	Fill3
B2.02	I	0	52	10YR 4/3	Sandy Loam	Dismembered Aquaman action figure and other plastic trash present throughout strat
B2.02	II	52	76	10YR 4/6	Loamy Sand	Asphalt chunks throughout strat
B2.02	III	76	100	10YR 6/4	Loamy Sand	Possible in tact sub?
B2.03	I	0	47	10YR 4/3	Sandy Loam	Plastic trash and modern glass throughout
B2.03	II	47	82	10YR 4/6	Loamy Sand	Asphalt chunks in strat leading to an asphalt/cobble impasse at 82
B2.04	I	0	45	10YR 3/4	Loamy Sand	Fill1- metal, glass, plastic, asphalt- not collected
B2.04	II	45	73	10YR 4/4	Loamy Sand	Fill2- asphalt, glass, plastic- not collected
B2.04	III	73	90	10YR 5/4	Sand	Fill3? Compact, glass not collected
B2.04	IV	90	100	2.5Y 6/4	Sand	C FnSa
B2.05	I	0	30	10YR 3/3	Sandy Loam	Fill with modern vessel glass, asphalt, and plastic
B2.05	II	30	39	10YR 5/6	Sand	Fill
B2.05	III	39	56	10YR 3/3	Sandy Loam	Fill with asphalt
B2.05	IV	56	100	10YR 4/6	Sand	Fill with few asphalt; wet and sticky
B2.06	I	0	46	10YR 4/2	Sandy Loam	Asphalt chunks present throughout strat
B2.06	II	46	82	10YR 4/6	Loamy Sand	Natural soil
B2.06	III	82	100	10YR 5/6	Loamy Sand	Natural subsoil

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
B2.07	I	0	22	10YR 4/4	Loamy Sand	Fill1- plastic, glass not collected
B2.07	II	22	84	10YR 4/6	Sand	B? Clean, no modern trash
B2.07	III	84	100	10YR 6/4	Sand	C FnSa
B2.08	I	0	14	10YR 2/2	Sandy Loam	Humus
B2.08	II	14	45	10YR 4/4	Loamy Sand	Natural topsoil
B2.08	III	45	100	10YR 4/6	Loamy Sand	Natural subsoil
B2.09	I	0	41	10YR 4/2	Sandy Loam	Asphalt and modern bottle glass present throughout strat
B2.09	II	41	73	10YR 5/6	Loamy Sand	Natural soil
B2.10	I	0	34	10YR 4/2	Loamy Sand	A - roots
B2.10	II	34	85	10YR 4/6	Sand	B
B2.10	III	85	100	10YR 5/4	Sand	C
B2.11	I	0	35	10YR 4/3	Sandy Loam	None
B2.11	II	35	65	10YR 5/4	Loamy Sand	Medium sand with loam
B2.11	III	65	80	10YR 5/4	Sand	Coarse sand
B2.11	IV	80	100	10YR 6/4	Sand	Natural soil
C1.01	I	0	26	10YR 4/2	Loam	Plastic trash throughout
C1.01	II	26	61	10YR 5/4	Loamy Sand	Natural soil
C1.01	III	61	89	10YR 6/4	Sand	Natural subsoil gradually compacting to impasses 89cmbs
C1.02	I	0	17	10YR 3/3	Sandy Loam	Dev A- plastic, glass not collected
C1.02	II	17	32	10YR 5/4	Silt Loam	Redep B? Compact & silty
C1.02	III	32	83	10YR 6/6	Sand	Bw
C1.02	IV	83	100	10YR 7/6	Sand	C
C1.03	I	0	28	10YR 4/2	Sandy Loam	Broken pieces of mirror and modern plastics throughout strat I
C1.03	II	28	52	10YR 4/6	Loamy Sand	Natural B soil
C1.04	I	0	24	10YR 4/2	Sandy Loam	Trash and plastic in strat I
C1.04	II	24	79	10YR 4/3	Sandy Loam	Mixed with 10YR 4/6, redeposited soils
C1.04	III	79	100	10YR 5/4	Loamy Sand	Natural B/C soil

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
C1.05	I	0	26	10YR 3/3	Sandy Loam	Natural topsoil
C1.05	II	26	50	10YR 4/6	Loamy Sand	Natural subsoil; medium sand
C1.05	III	50	100	10YR 5/4	Loamy Sand	Natural subsoil; coarse sand
C1.06	I	0	19	10YR 3/2	Sandy Loam	Dev A- glass, not collected
C1.06	II	19	80	10YR 4/6	Sand	B silty coarse sand
C1.06	III	80	100	10YR 6/4	Sand	C FnSa
C1.07	I	0	24	10YR 4/2	Sandy Loam	Asphalt throughout
C1.07	II	24	51	10YR 4/6	Sandy Loam	Asphalt present throughout strat
C1.07	III	51	74	10YR 5/4	Loamy Sand	Compact natural soil
C1.08	I	0	35	10YR 3/2	Sandy Loam	Overburden/Dev A- Plastic, glass, metal not collected
C1.08	II	35	73	10YR 4/6	Sand	B- silty coarse sand, wet towards bottom
C1.08	III	73	100	10YR 5/4	Sand	C - coarse sand, less rocks/cobbles than previous strat
C1.09	I	0	19	10YR 3/3	Sandy Loam	Natural topsoil
C1.09	II	19	69	10YR 4/6	Loamy Sand	Natural subsoil; wet and sticky
C1.09	III	69	90	10YR 5/4	Loamy Sand	Natural subsoil; wet and sticky
C1.09	IV	90	100	10YR 5/8	Sand	Natural subsoil; coarse sand
C1.10	I	0	25	10YR 4/2	Sandy Loam	Trash, asphalt chunks and plastic throughout strat
C1.10	II	25	58	10YR 4/6	Loamy Sand	Roots throughout leading to impasse at 58cmbs
C1.11	I	0	27	10YR 4/2	Sandy Loam	Some plastic trash in first 10cm
C1.11	II	27	65	10YR 4/6	Loamy Sand	Natural soil horizon
C1.11	III	65	91	10YR 5/4	Loamy Sand	Heavy oxidation, natural soil
C1.11	IV	91	100	10YR 6/4	Sand	Medium to coarse sand with oxidation
C1.12	I	0	8	10YR 3/3	Sandy Loam	Road Overburden- lensed with B, plastic not collected
C1.12	II	8	20	10YR 5/3	Loamy Sand	Ae
C1.12	III	20	40	10YR 4/6	Loamy Sand	B1- M Sa small rock/cobbles

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
C1.12	IV	40	75	10YR 4/4	Sand	B2- silty wet M Sa
C1.12	V	75	100	10YR 7/6	Sand	C- coarse sand
C1.13	I	0	20	10YR 3/3	Sandy Loam	Ao/A - plastic in Ao not collected
C1.13	II	20	65	10YR 4/6	Loamy Sand	B
C1.13	III	65	100	10YR 6/4	Sand	C - coarse sand
C1.14	I	0	25	10YR 4/3	Sandy Loam	Landscaped A, STP is about 5m from driveway with planted wintergreen ground cover surrounding STP
C1.14	II	25	56	10YR 4/6	Loamy Sand	Natural soil
C1.15	I	0	28	10YR 3/3	Sandy Loam	Ao/A- plastic present in top of strat, not collected, intact A underneath
C1.15	II	28	50	10YR 4/6	Loamy Sand	B1
C1.15	III	50	77	10YR 4/6	Sand	B2 same color but texture change
C1.15	IV	77	100	10YR 6/4	Sand	C coarse sand
C1.16	I	0	24	10YR 4/2	Sandy Loam	Few modern vessel glass fragments
C1.16	II	24	58	10YR 4/6	Loamy Sand	Intact subsoil
C1.16	III	58	80	10YR 5/4	Sandy Loam	Intact subsoil; wet and sticky
C1.16	IV	80	100	10YR 6/4	Loamy Sand	Intact subsoil
C1.17	I	0	17	10YR 4/2	Silt Loam	Appears to be intact A horizon
C1.17	II	17	48	10YR 4/6	Silt Loam	B horizon
C1.17	III	48	84	10YR 5/6	Sandy Loam	None
C1.17	IV	84	100	10YR 6/4	Loamy Sand	Natural subsoil
C1.18	I	0	68	10YR 4/3	Silt Loam	Heavily disturbed, mixing with 10YR 2/2 and 10YR 4/6 with plastic bag fragments present for the first 30cm.
C1.18	II	68	82	10YR 5/4	Loam	None
C1.18	III	82	100	10YR 6/4	Loamy Sand	None
C1.19	I	0	23	10YR 3/3	Sandy Loam	Ao/A - glass present in Ao not collected, intact A
C1.19	II	23	45	10YR 4/6	Loamy Sand	B

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
C1.19	III	45	78	10YR 5/4	Sand	B2
C1.19	IV	78	100	10YR 6/4	Sand	C
C1.20	I	0	22	10YR 4/2	Sandy Loam	Intact topsoil
C1.20	II	22	60	10YR 4/6	Sandy Loam	Intact subsoil; root impasse
C1.21	I	0	24	10YR 3/2	Sandy Loam	Intact topsoil
C1.21	II	24	54	10YR 4/6	Loamy Sand	Intact subsoil
C1.21	III	54	70	10YR 5/4	Loamy Sand	Intact subsoil
C1.21	IV	70	82	10YR 5/6	Sand	Intact subsoil; very small rocks
C1.21	V	82	100	10YR 6/4	Sand	Intact subsoil; very small rocks
C1.22	I	0	20	10YR 3/3	Sandy Loam	Ao - glass, plastic not collected over intact A
C1.22	II	20	60	10YR 4/6	Loamy Sand	B- silty M Sa, wet
C1.22	III	60	100	10YR 6/3	Sand	C - wet, trace silt
C1.23	I	0	22	10YR 2/2	Sandy Loam	Intact A horizon
C1.23	II	22	62	10YR 4/6	Sandy Loam	Intact B1
C1.23	III	62	78	10YR 5/4	Loamy Sand	B2
C1.23	IV	78	100	10YR 6/2	Sand	Dense gravel, pockets of oxidation
C1.24	I	0	23	10YR 3/2	Sandy Loam	Intact topsoil
C1.24	II	23	54	10YR 4/6	Loamy Sand	Intact subsoil
C1.24	III	54	90	10YR 5/4	Loamy Sand	Intact subsoil
C1.24	IV	90	100	10YR 6/2	Sandy Clay Loam	Intact subsoil
C2.01	I	0	31	10YR 4/4	Sandy Loam	Road overburden, glass, asphalt not collected
C2.01	II	31	76	10YR 4/6	Loamy Sand	B silty M Sa
C2.01	III	76	100	10YR 5/4	Sand	C wet silty F Sa
C2.02	I	0	71	10YR 4/3	Sandy Loam	Mixed with 10YR4/6 and 10YR 2/1- STP is approximately 5m from utility pole
C2.02	II	71	84	10YR 5/4	Loamy Sand	None
C2.02	III	84	106	10YR 6/2	Sand	Natural subsoil
C2.03	I	0	24	10YR 3/3	Loamy Sand	Road overburden - styrofoam, plastic, glass not collected
C2.03	II	24	60	10YR 5/4	Sand	Fill/redeposited B

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
C2.03	III	60	100	10YR 3/3	Loamy Sand	Fill2 - Plastic styrofoam not collected
C2.04	I	0	57	10YR 4/3	Silt Loam	Mixed with 10YR 2/2 and 10YR 4/6, heavy amount of trash
C2.05	I	0	29	10YR 3/3	Sandy Loam	Disturbed topsoil with pockets of 10YR 2/2 a d 10YR 6/3 SaLo
C2.05	II	29	51	10YR 4/6	Sandy Loam	Intact subsoil; root impasse
C2.06	I	0	31	10YR 2/2	Silt Loam	Overburden
C2.06	II	31	70	10YR 4/6	Sandy Loam	B1 - Wet silty sand
C2.06	III	70	86	10YR 5/6	Loamy Sand	B2 wet silty sand
C2.06	IV	86	100	2.5Y 6/4	Sand	C wet F Sa
C2.07	I	0	12	10YR 3/2	Silt Loam	Overburden- plastic, glass not collected
C2.07	II	12	30	10YR 4/4	Sandy Loam	Buried A wet, silty m Sa
C2.07	III	30	50	10YR 4/6	Loamy Sand	B wet silty m sa
C2.08	I	0	48	10YR 4/3	Sandy Loam	Plastic trash and aluminum foil present in first 20cmbs
C2.08	II	48	77	10YR 4/6	Sandy Loam	Intact B soil
C2.08	III	77	100	10YR 5/4	Loamy Sand	Intact B2
C2.09	I	0	28	10YR 3/3	Sandy Loam	Disturbed topsoil with plastic and Styrofoam throughout
C2.09	II	28	62	10YR 4/6	Sandy Loam	Intact subsoil; wet and sticky
C2.09	III	62	80	10YR 5/4	Sandy Clay Loam	Intact subsoil; wet and sticky
C2.09	IV	80	100	10YR 5/8	Sand	Intact subsoil; coarse sand
C2.10	I	0	20	10YR 4/2	Sandy Loam	Wood beam fragments throughout strat
C2.10	II	20	53	10YR 4/6	Sandy Loam	Appears to be an intact B
C2.10	III	53	82	10YR 5/4	Loamy Sand	Intact B2
C2.10	IV	82	100	10YR 6/2	Sand	Intact subsoil
C2.11	I	0	17	10YR 3/2	Loamy Sand	Overburden glass, plastic not collected
C2.11	II	17	65	10YR 4/6	Sand	B - no rocks
C2.11	III	65	80	10YR 5/4	Sand	None
C2.11	IV	80	100	10YR 6/4	Sand	C - some cobbles present

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
C2.12	I	0	30	10YR 3/2	Sandy Loam	Intact topsoil
C2.12	II	30	78	10YR 4/6	Sandy Loam	Intact subsoil; wet ad sticky
C2.12	III	78	100	10YR 5/4	Loamy Sand	Intact subsoil; wet and sticky
C2.13	I	0	52	10YR 4/3	Silt Loam	Mixed with 10YR 4/6, large amount of auto glass, plastic and metal trash throughout strat
C2.13	II	52	69	10YR 4/6	Silt Loam	Natural B
C2.13	III	69	100	10YR 5/4	Sandy Loam	Natural B2
C2.14	I	0	28	10YR 3/2	Loamy Sand	Road overburden plastic, glass not collected
C2.14	II	28	100	10YR 4/4	Sandy Clay	B? Wet, silty m sa, roots throughout
C2.15	I	0	31	10YR 2/2	Sandy Loam	Heavy volume of trash throughout strat
C2.15	II	31	50	10YR 4/6	Sandy Clay	Asphalt present in first 20cm of strat
C2.15	III	50	84	10YR 5/4	Sandy Clay Loam	Intact B2
C2.15	IV	84	100	10YR 6/4	Loamy Sand	Intact subsoil
C2.16	I	0	26	10YR 3/2	Sandy Loam	Redeposited topsoil with modern colorless vessel glass
C2.16	II	26	34	10YR 4/6	Loamy Sand	Redeposited subsoil
C2.16	III	34	42	10YR 3/2	Sandy Loam	Redeposited topsoil with modern ferrous fragment
C2.16	IV	42	60	10YR 4/6	Sandy Loam	Intact subsoil
C2.16	V	60	100	10YR 5/4	Sandy Loam	Intact subsoil
C2.17	I	0	28	10YR 3/2	Loamy Sand	Overburden plastic not collected
C2.17	II	28	70	10YR 4/4	Sandy Loam	B wet silty sand, some cobbles
C2.17	III	70	100	10YR 6/4	Sand	C
C3.01	I	0	27	10YR 4/4	Loamy Sand	Landscape A, plastic, brick not collected
C3.01	II	27	50	10YR 4/6	Sand	Very compact redeposited B? Silty M sand lots of M cobbles
C3.02	I	0	34	10YR 4/2	Loamy Sand	Small grade angular road gravel

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
C3.02	II	34	43	10YR 4/6	Loamy Sand	Modern glass and fragments of plastic bag in wall at 41cmbs, possibly a redeposited B1 or a look-alike fill layer. Extremely compact leading to impasse at 43cmbs
C3.03	I	0	19	10YR 3/2	Sandy Loam	Topsoil fill with modern colorless vessel glass and plastic
C3.03	II	19	30	10YR 4/6	Loamy Sand	Subsoil fill with modern colorless vessel glass and plastic; coarse sand
C3.03	III	30	49	10YR 4/3	Loamy Sand	Topsoil fill with modern colorless vessel glass and plastic
C3.03	IV	49	75	10YR 4/6	Sand	Intact subsoil; coarse sand
C3.03	V	75	100	10YR 6/4	Sand	Intact subsoil; coarse sand
C3.04	I	0	27	10YR 4/2	Sandy Loam	Small angular gravel throughout strat, plastic trash and glass present throughout
C3.04	II	27	59	10YR 4/6	Loamy Sand	Mixed with 10YR 4/2, plastic trash and rubber fragments present throughout strat, extremely compact leading to impasse at 59cmbs
C3.05	I	0	20	10YR 4/4	Loamy Sand	Landscape A, asphalt, glass not collected
C3.05	II	20	37	10YR 4/6	Sand	Redep B
C3.05	III	37	40	10YR 2/1	Sand	Dark streak-
C3.05	IV	40	74	10YR 4/6	Sand	Redep B lots of cobbles, asphalt not collected
C3.05	V	74	100	10YR 7/6	Sand	C coarse sand
C4.01	I	0	21	10YR 2/2	Sandy Loam	Garden hose and other trash present throughout
C4.01	II	21	43	10YR 4/3	Sandy Loam	Mixed with 10YR 4/6 and 10YR 4/2; trash and asphalt chunks present throughout strat
C4.01	III	43	68	10YR 5/4	Loamy Sand	Natural B soil, compact at horizon change and dense with rocks and cobbles
C4.02	I	0	10	10YR 2/2	Sandy Loam	Road overburden plastic, asphalt not collected
C4.02	II	10	43	10YR 4/4	Loamy Sand	Truncated B

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
C4.03	I	0	18	10YR 2/2	Loamy Sand	Road overburden plastic not collected
C4.03	II	18	54	10YR 4/4	Loamy Sand	B
C4.03	III	54	84	10YR 5/4	Sand	B2
C4.03	IV	84	100	10YR 6/4	Sand	C
C4.04	I	0	14	2.5Y 8/2	Sandy Loam	Intact topsoil
C4.04	II	14	37	10YR 4/4	Sandy Loam	Intact subsoil
C4.04	III	37	60	10YR 5/4	Loamy Sand	Intact subsoil
C4.04	IV	60	100	10YR 4/6	Sand	Intact subsoil; coarse sand dense with gravels
C4.05	I	0	30	10YR 4/2	Loamy Sand	None
C4.05	II	30	78	10YR 4/6	Sandy Clay Loam	Intact B
C4.05	III	78	100	10YR 5/4	Loamy Sand	Intact B
C4.06	I	0	11	10YR 2/2	Sandy Loam	Intact topsoil
C4.06	II	11	50	10YR 4/4	Sandy Loam	Intact subsoil
C4.06	III	50	79	10YR 5/4	Loamy Sand	Intact subsoil
C4.06	IV	79	100	10YR 6/6	Sand	Intact subsoil; coarse sand dense with gravels
C4.06	V	100		/		None
C4.07	I	0	11	10YR 2/2	Sand	Road overburden plastic not collected
C4.07	II	11	67	10YR 4/4	Loamy Sand	B wet silty sand
C4.08	I	0	20	10YR 4/2	Sandy Loam	Plastic and glass trash
C4.08	II	20	74	10YR 4/6	Sandy Clay Loam	Natural B
C4.08	III	74	100	10YR 5/4	Loamy Sand	Natural B
C4.09	I	0	29	10YR 2/2	Sandy Loam	Redeposited topsoil with plastic and asphalt
C4.09	II	29	52	10YR 4/4	Sandy Clay Loam	Redeposited subsoil with 10YR 2/2 SaLo mottles and plastic and asphalt
C4.09	III	52	76	10YR 5/4	Sandy Clay Loam	Redeposited subsoil with 10YR 2/2 SaLo mottles and plastic and asphalt
C4.09	IV	76	100	10YR 4/6	Sand	Intact subsoil; dense with gravels

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
C4.10	I	0	34	10YR 2/2	Sandy Loam	Road overburden plastic, ceramic, not collected
C4.10	II	34	70	10YR 5/4	Sandy Loam	B wet silty Sand
C5.01	I	0	27	10YR 5/2	Sandy Loam	Overburden/fill mixed with 10YR 6/3
C5.01	II	27	80	10YR 4/6	Sandy Loam	Natural B
C5.01	III	80	100	10YR 6/4	Loamy Sand	Natural subsoil
C5.02	I	0	21	10YR 2/2	Sandy Loam	Road overburden plastic, glass not collected
C5.02	II	21	100	10YR 4/6	Sand	Redeposited B/subsoil 10YR 6/4 sa, 10YR 4/2 sa
C5.03	I	0	13	10YR 4/2	Loamy Sand	Redeposited topsoil with modern plastic, vessel glass and asphalt
C5.03	II	13	72	10YR 4/4	Loamy Sand	Fill mottled with 10YR 6/6 and 10YR 4/2 LoSa; modern plastic
C5.03	III	72	100	10YR 4/6	Loamy Sand	Intact subsoil; coarse sand dense with gravels
C5.04	I	0	30	10YR 3/3	Sandy Loam	Overburden with asphalt chunks
C5.04	II	30	43	10YR 4/6	Loamy Sand	Redeposited soils with asphalt chunks and asphalt across base
C5.05	I	0	32	10YR 4/2	Loamy Sand	Fill glass asphalt not collected
C5.05	II	32	49	10YR 4/6	Sand	Fill asphalt plastic not collected
C5.06	I	0	67	10YR 4/2	Sandy Loam	Redeposited topsoil/fill with plastic and asphalt
C5.06	II	67	85	10YR 6/6	Sand	Redeposited subsoil dense with gravels and asphalt leading to impasse
C5.07	I	0	32	10YR 4/2	Sandy Loam	Plastic and glass present
C5.07	II	32	100	10YR 4/6	Loamy Sand	Redeposited B soils and mixed with 10YR 6/4
C5.08	I	0	17	10YR 3/3	Loamy Sand	Landscape A glass, asphalt not collected
C5.08	II	17	100	10YR 4/4	Sand	Redep B & C
C6.01	I	0	17	10YR 4/2	Sandy Loam	None
C6.01	II	17	80	10YR 4/6	Sandy Loam	Natural B

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
C6.01	III	80	100	10YR 6/4	Loamy Sand	Natural B
C6.02	I	0	28	10YR 4/4	Sand	Redep B & C
C6.02	II	28	66	10YR 4/6	Sand	Truncated B
C6.02	III	66	100	10YR 6/4	Sand	C
C6.03	I	0	13	10YR 3/3	Sand	Road overburden plastic not collected
C6.03	II	13	36	10YR 4/4	Sand	Redep B & C
C6.03	III	36	52	10YR 4/6	Sand	B
C6.04	I	0	16	10YR 4/2	Sandy Loam	Plastic and glass trash throughout
C6.04	II	16	50	10YR 4/6	Sandy Loam	Redeposited soil, mixed with 10YR 6/4
C6.04	III	50	90	10YR 5/4	Loamy Sand	Natural B
C6.04	IV	90	100	10YR 6/2	Sand	Natural C
C6.05	I	0	33	10YR 3/3	Sand	Overburden plastic not collected
C6.05	II	33	70	10YR 4/4	Sand	Redep B & C
C6.05	III	70	100	10YR 5/4	Sand	C
C6.06	I	0	20	10YR 4/2	Sandy Loam	Plastic road trash in first strat
C6.06	II	20	70	10YR 4/6	Loamy Sand	Redeposited B
C6.06	III	70	100	10YR 5/4	Loamy Sand	Natural B
C6.07	I	0	9	10YR 3/3	Sand	Road overburden plastic not collected
C6.07	II	9	28	10YR 4/4	Sand	B
C6.07	III	28	57	10YR 5/4	Sand	B2
C6.07	IV	57	100	10YR 6/4	Sand	C
C6.08	I	0	10	10YR 4/2	Sandy Loam	Intact topsoil
C6.08	II	10	69	10YR 5/6	Loamy Sand	Intact subsoil
C6.08	III	69	82	10YR 5/4	Loamy Sand	Intact subsoil
C6.08	IV	82	100	10YR 6/4	Sand	Intact subsoil; coarse sand dense with gravels
C6.09	I	0	9	10YR 4/3	Sandy Loam	A soil
C6.09	II	9	43	10YR 4/6	Sandy Loam	B1
C6.09	III	43	74	10YR 5/6	Sandy Clay Loam	B2

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
C6.09	IV	74	100	10YR 6/2	Sand	Subsoil
C6.10	I	0	9	10YR 4/3	Sandy Loam	Intact topsoil
C6.10	II	9	64	10YR 4/6	Sandy Loam	Intact subsoil
C6.10	III	64	90	10YR 5/4	Sandy Clay Loam	Intact subsoil
C6.10	IV	90	100	10YR 6/2	Sand	Intact subsoil; coarse sand dense with gravels
C6.11	I	0	8	10YR 3/3	Sandy Loam	Road overburden glass not collected
C6.11	II	8	44	10YR 4/4	Loamy Sand	B
C6.11	III	44	89	10YR 5/4	Sandy Clay Loam	B2
C6.11	IV	89	100	10YR 6/4	Sand	C
C6.12	I	0	10	10YR 4/2	Sandy Loam	A soil
C6.12	II	10	52	10YR 4/6	Sandy Loam	B1 soil
C6.12	III	52	81	10YR 5/4	Sandy Clay Loam	B2 soil
C6.12	IV	81	100	10YR 6/2	Sand	Subsoil
C6.13	I	0	9	10YR 2/2	Sandy Loam	Intact topsoil
C6.13	II	9	46	10YR 4/6	Sandy Clay Loam	Intact subsoil
C6.13	III	46	77	10YR 5/4	Sandy Loam	Intact subsoil
C6.13	IV	77	100	10YR 6/2	Sand	Intact subsoil; coarse sand dense with gravels
C6.14	I	0	14	10YR 3/3	Sandy Loam	Road overburden plastic, glass not collected
C6.14	II	14	65	10YR 4/4	Sandy Clay Loam	B
C6.14	III	65	100	10YR 5/4	Sand	C
C6.15	I	0	19	10YR 3/2	Sandy Loam	Intact topsoil with few plastic and Styrofoam
C6.15	II	19	63	10YR 4/6	Sandy Clay Loam	Intact subsoil
C6.15	III	63	82	10YR 5/4	Loamy Sand	Intact subsoil
C6.15	IV	82	100	10YR 6/2	Sand	Fine sand
C6.16	I	0	13	10YR 4/2	Sandy Loam	A soil
C6.16	II	13	47	10YR 4/6	Sandy Loam	B1
C6.16	III	47	80	10YR 5/6	Sandy Clay Loam	B2
C6.16	IV	80	100	10YR 6/2	Loamy Sand	Subsoil

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
C6.17	I	0	8	10YR 2/2	Sandy Loam	Intact topsoil with a few plastic
C6.17	II	8	48	10YR 4/6	Sandy Clay Loam	Intact subsoil with many roots leading to impasse
C6.18	I	0	17	10YR 3/3	Loamy Sand	Road overburden plastic not collected
C6.18	II	17	53	10YR 4/4	Sandy Clay Loam	B1
C6.18	III	53	78	10YR 5/4	Sandy Clay Loam	B2
C6.19	I	0	15	10YR 3/2	Sandy Loam	Intact topsoil
C6.19	II	15	44	10YR 4/6	Sandy Clay Loam	Intact subsoil
C6.19	III	44	77	10YR 5/4	Sandy Clay Loam	Intact subsoil
C6.19	IV	77	100	10YR 6/2	Sand	Intact subsoil; fine sand
C6.20	I	0	10	10YR 4/2	Sandy Loam	A soil
C6.20	II	10	56	10YR 4/6	Sandy Clay Loam	B1
C6.20	III	56	79	10YR 5/6	Sandy Loam	B2
C6.20	IV	79	100	10YR 6/2	Loamy Sand	Subsoil
C6.21	I	0	14	10YR 3/2	Loamy Sand	Road overburden glass not collected
C6.21	II	14	72	10YR 4/4	Silt Loam	B1
C6.21	III	72	94	10YR 5/4	Sandy Clay Loam	B2
C6.21	IV	94	100	10YR 6/4	Sand	C
C6.22	I	0	11	10YR 4/2	Sandy Loam	Intact topsoil
C6.22	II	11	53	10YR 4/6	Sandy Loam	Intact subsoil
C6.22	III	53	84	10YR 5/4	Loamy Sand	Intact subsoil
C6.22	IV	84	100	10YR 6/4	Sand	Intact subsoil; coarse sand dense with gravels
C6.23	I	0	12	10YR 4/2	Sandy Loam	A soil
C6.23	II	12	34	10YR 4/6	Sandy Clay Loam	B1
C6.23	III	34	48	10YR 5/6	Sandy Loam	B2
C6.23	IV	48	60	10YR 6/2	Loamy Sand	Subsoil with root impasse
C6.24	I	0	12	10YR 2/2	Sandy Loam	A soil
C6.24	II	12	48	10YR 4/6	Sandy Clay Loam	B1
C6.24	III	48	82	10YR 5/4	Loamy Sand	B2

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
C6.24	IV	82	100	10YR 6/4	Loamy Sand	Natural subsoil
C6.25	I	0	13	10YR 3/3	Sandy Loam	Intact topsoil
C6.25	II	13	64	10YR 4/6	Sandy Loam	Intact subsoil
C6.25	III	64	100	10YR 5/4	Sandy Loam	Intact subsoil; gets sandier with depth
C6.26	I	0	15	10YR 3/2	Sandy Loam	Road overburden
C6.26	II	15	59	10YR 4/6	Loamy Sand	B1
C6.26	III	59	88	10YR 5/4	Sand	B2 trace silt
C6.26	IV	88	100	10YR 6/4	Sand	C coarse sand
C6.27	I	0	12	10YR 2/2	Sandy Loam	Natural A
C6.27	II	12	68	10YR 4/6	Sandy Loam	B1 soil
C6.28	I	0	12	10YR 3/2	Sandy Loam	Intact topsoil
C6.28	II	12	68	10YR 4/6	Sandy Loam	Intact subsoil; medium sand
C6.28	III	68	92	10YR 5/4	Loamy Sand	Intact subsoil; medium sand
C6.28	IV	92	100	10YR 6/6	Sand	Intact subsoil
C6.29	I	0	16	10YR 3/2	Sandy Loam	Road overburden plastic not collected
C6.29	II	16	61	10YR 4/6	Loamy Sand	B1
C6.29	III	61	89	10YR 5/4	Sand	B2
C6.29	IV	89	100	10YR 6/4	Sand	C coarse sand
C6.30	I	0	14	10YR 2/2	Sandy Loam	A soil
C6.30	II	14	53	10YR 4/6	Sandy Loam	B1
C6.30	III	53	86	10YR 5/4	Loamy Sand	B2
C6.30	IV	86	100	10YR 6/2	Loamy Sand	Natural subsoil
C6.31	I	0	12	10YR 2/2	Sandy Loam	Intact topsoil
C6.31	II	12	70	10YR 4/6	Loamy Sand	Intact subsoil; fine sand with some clay; wet and sticky
C6.31	III	70	100	10YR 5/4	Loamy Sand	Intact subsoil; fine sand
C6.32	I	0	12	10YR 3/2	Sandy Loam	Road overburden glass not collected
C6.32	II	12	56	10YR 4/4	Loamy Sand	B1
C6.32	III	56	72	10YR 5/4	Sand	B2

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
C6.33	I	0	18	10YR 2/2	Sandy Loam	A soil
C6.33	II	18	53	10YR 4/6	Sandy Loam	B1
C6.33	III	53	80	10YR 5/4	Sandy Loam	B2
C6.33	IV	80	100	10YR 6/2	Sand	Natural subsoil
C6.34	I	0	18	10YR 3/2	Sandy Loam	Road overburden plastic not collected
C6.34	II	18	57	10YR 4/6	Sandy Loam	B1
C6.34	III	57	90	10YR 5/4	Sand	B2
C6.34	IV	90	100	10YR 6/4	Sand	C
C6.35	I	0	15	10YR 4/4	Sandy Loam	Redeposited topsoil; plastic throughout; very dry
C6.35	II	15	72	10YR 4/6	Loamy Sand	Intact subsoil; very dry
C6.35	III	72	100	10YR 5/4	Loamy Sand	Intact subsoil; very dry
C6.36	I	0	20	10YR 2/2	Sandy Loam	A soil
C6.36	II	20	51	10YR 4/6	Loamy Sand	B1
C6.36	III	51	73	10YR 5/4	Loamy Sand	B2
C6.36	IV	73	100	10YR 6/2	Sand	Subsoil
C6.37	I	0	18	10YR 3/2	Sandy Loam	Intact topsoil
C6.37	II	18	68	10YR 4/6	Loamy Sand	Intact subsoil
C6.37	III	68	100	10YR 5/4	Loamy Sand	Intact subsoil
C6.38	I	0	16	10YR 3/2	Sandy Loam	Road overburden glass not collected
C6.38	II	16	49	10YR 4/6	Loamy Sand	B1
C6.38	III	49	80	10YR 5/4	Sand	B2
C6.38	IV	80	100	10YR 6/4	Sand	C coarse sand
C6.39	I	0	15	10YR 3/2	Sandy Loam	Intact topsoil
C6.39	II	15	52	10YR 4/6	Sandy Loam	Intact subsoil
C6.39	III	52	65	10YR 5/4	Loamy Sand	Intact subsoil
C6.39	IV	65	100	10YR 6/6	Sand	Intact subsoil dense with gravels
C6.40	I	0	17	10YR 2/2	Sandy Loam	A soil
C6.40	II	17	48	10YR 4/6	Sandy Loam	B1

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
C6.40	III	48	76	10YR 5/6	Sandy Loam	B2
C6.40	IV	76	100	10YR 6/2	Sand	Sterile subsoil
NI02.38	I	0	12	10YR 4/2	Silt Loam	None
NI02.38	II	12	67	10YR 4/6	Sandy Loam	None
NI02.38	III	67	100	10YR 5/3	Sand	Rounded and subrounded cobbles
NI02.84	I	0	10	10YR 4/2	Sandy Loam	Fill
NI02.84	II	10	48	10YR 5/4	Sandy Loam	B1
NI02.84	III	48	80	10YR 5/6	Loamy Sand	B2
NI02.84	IV	80	100	10YR 6/4	Sand	C
19195	I	0	23	10YR 3/2	Sandy Loam	Rounded and subrounded rocks present
19195	II	23	56	10YR 4/4	Sand	Rounded and subrounded rocks present
19195	III	56	86	10YR 4/6	Sand	Rounded and subrounded rocks present
19195	IV	86	100	10YR 6/4	Sand	Rounded and subrounded rocks present
A04.12	I	0	16	10YR 4/3	Loamy Sand	Overburden
A04.12	II	16	33	10YR 4/4	Loamy Sand	Fill Mixed with 10YR 4/3
A04.12	III	33	74	10YR 6/4	Sand	Banded fill mixed with 10YR 4/4 and asphalt throughout leading to asphalt compaction impasse at 74
A04.13	I	0	25	10YR 3/4	Sand	None
A04.13	II	25	45	10YR 4/4	Sand	Rounded and subrounded rocks present
A04.13	III	45	80	10YR 5/4	Sand	Rounded and subrounded rocks present
A04.13	IV	80	100	10YR 6/4	Sand	Rounded and subrounded rocks present
A07.01	I	0	30	10YR 2/2	Sand	Overburden
A07.01	II	30	49	10YR 5/2	Sand	Redeposited
A07.01	III	49	70	10YR 4/6	Sand	B
A07.01	IV	70	87	10YR 5/4	Sand	B2
A07.01	V	87	100	10YR 6/4	Sand	C
A07.02	I	0	16	10YR 3/2	Sandy Loam	Discarded modern glass.
A07.02	II	16	24	10YR 4/2	Sand	None
A07.02	III	24	70	10YR 4/4	Sand	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
A07.02	IV	70	100	10YR 6/4	Sand	Saturated
A07.03	I	0	24	10YR 2/2	Sandy Loam	Ob
A07.03	II	24	50	10YR 5/2	Loamy Sand	Fill/redeposited soil
A07.03	III	50	74	10YR 4/6	Loamy Sand	B1
A07.03	IV	74	90	10YR 5/6	Sand	B2
A07.03	V	90	100	10YR 6/4	Sand	Subsoil
A07.04	I	0	28	10YR 3/3	Sand	None
A07.04	II	28	60	10YR 5/3	Sand	Rounded and subrounded rocks/gravel
A07.04	III	60	100	10YR 6/4	Sand	Rounded and subrounded rocks/gravel
A07.05	I	0	10	10YR 3/2	Sandy Loam	None
A07.05	II	10	17	10YR 4/2	Sand	None
A07.05	III	17	101	10YR 5/6	Sand	Ended for meter deep.
A07.06	I	0	20	10YR 5/2	Sand	Overburden
A07.06	II	20	60	10YR 4/2	Sand	Redeposited fill
A07.06	III	60	75	10YR 4/6	Sand	B
A07.07	I	0	12	10YR 3/3	Sand	Rounded and subrounded rocks/gravel
A07.07	II	12	64	10YR 5/3	Sand	Rounded and subrounded rocks/gravel, thin e horizon near bottom of strat
A07.07	III	64	100	10YR 5/6	Sand	Rounded and subrounded rocks/gravel
A07.08"	I	0	11	10YR 4/2	Sandy Loam	Landscape A
A07.08"	II	11	74	10YR 5/2	Loamy Sand	Fill
A07.08"	III	74	90	10YR 4/6	Loamy Sand	B
A07.08"	IV	90	100	10YR 6/4	Sand	Coarse sand with gravel subsoil
A07.09	I	0	7	10YR 3/2	Sandy Loam	None
A07.09	II	7	14	10YR 4/2	Sand	None
A07.09	III	14	85	10YR 5/3	Sand	None
A07.09	IV	85	100	10YR 5/6	Sand	Ended for meter deep.
A07.10	I	0	11	10YR 5/3	Sand	Landscape A
A07.10	II	11	93	10YR 5/4	Sand	Fill banded with B 10YR 4/6, asphalt & plastic present not collected

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
A07.11	I	0	13	10YR 4/2	Loamy Sand	Landscape A, modern trash
A07.11	II	13	64	10YR 5/4	Loamy Sand	Bw
A07.11	III	64	100	10YR 5/6	Sand	C
A07.12	I	0	8	10YR 3/3	Sand	Rounded and subrounded rocks and gravel present
A07.12	II	8	54	10YR 5/3	Sand	Rounded and subrounded rocks and gravel present
A07.12	III	54	100	10YR 5/6	Sand	Rounded and subrounded rocks and gravel present
A07.13	I	0	11	10YR 4/2	Sandy Loam	Land A
A07.13	II	11	40	10YR 5/2	Loamy Sand	Fill
A07.13	III	40	87	10YR 5/6	Loamy Sand	B
A07.13	IV	87	100	10YR 6/4	Sand	Subsoil
A07.14	I	0	29	10YR 4/2	Sand	None
A07.14	II	29	80	10YR 5/4	Sand	None
A07.14	III	80	100	10YR 6/4	Sand	Ended for meter deep.
A07.15	I	0	13	10YR 5/2	Sand	Landscape A
A07.15	II	13	38	10YR 4/3	Sand	Fill
A07.15	III	38	80	10YR 4/6	Sand	B
A07.15	IV	80	100	10YR 6/4	Sand	C
A07.16	I	0	16	10YR 4/2	Loamy Sand	Landscape A, modern trash
A07.16	II	16	68	10YR 5/4	Loamy Sand	Bw, 10-20% gravels
A07.16	III	68	100	10YR 5/6	Sand	C horizon >30% gravels
A07.17	I	0	9	10YR 3/2	Sandy Loam	None
A07.17	II	9	75	10YR 5/3	Sand	Rounded and subrounded rocks and gravel present
A07.17	III	75	100	10YR 6/3	Sand	Rounded and subrounded rocks and gravel present
A07.18	I	0	10	10YR 4/2	Sandy Loam	Landscape A
A07.18	II	10	46	10YR 4/6	Loamy Sand	Fill with asphalt

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
A07.18	III	46	73	10YR 6/2	Sand	Coarse sand subsoil
A07.20	I	0	10	10YR 2/2	Sandy Loam	None
A07.20	II	10	41	10YR 5/3	Sand	None
A07.20	III	41	100	10YR 5/6	Sand	Ended for meter deep
A07.21	I	0	14	10YR 4/2	Loamy Sand	Landscape A/O, modern trash
A07.21	II	14	30	10YR 4/4	Loamy Sand	Bw
A07.21	III	30	76	10YR 5/4	Loamy Sand	Bw, mottled with 10 YR 6/2 sand at base of strat
A07.21	IV	76	100	10YR 5/6	Sand	C horizon >30% gravels
A07.22	I	0	8	10YR 5/2	Sand	Landscape A
A07.22	II	8	67	10YR 6/4	Sand	Banded fill with 10YR 4/6
A07.22	III	67	70	10YR 6/4	Sand	C
A07.24	I	0	14	10YR 3/2	Loamy Sand	Roadside A, modern trash
A07.24	I	0	18	10YR 4/2	Sandy Loam	Land A
A07.24	II	14	42	10YR 5/4	Loamy Sand	BW
A07.24	II	18	73	10YR 4/6	Loamy Sand	Fill with asphalt
A07.24	III	42	60	10YR 5/2	Loamy Sand	Bw
A07.24	III	73	100	10YR 6/2	Sand	Coarse sand subsoil
A07.24	IV	60	100	10YR 5/6	Sand	C horizon, >30% gravels and cobbles
A07.25	I	0	19	10YR 3/3	Sand	None
A07.25	II	19	27	10YR 4/3	Sand	Rounded and subrounded rocks and gravel present
A07.25	III	27	78	10YR 5/3	Sand	Rounded and subrounded rocks and gravel present
A07.25	IV	78	100	10YR 5/6	Sand	Rounded and subrounded rocks and gravel present
A07.26	I	0	10	10YR 2/2	Sandy Loam	None
A07.26	II	10	22	10YR 4/2	Sand	None
A07.26	III	22	87	10YR 5/4	Sand	None
A07.26	IV	87	100	10YR 6/3	Sand	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
A07.27	I	0	11	10YR 5/2	Sand	Landscape A
A07.27	II	11	20	10YR 4/3	Sand	Banded fill
A07.27	III	20	43	10YR 4/6	Sand	B
A07.28	I	0	12	10YR 3/2	Loamy Sand	Roadside A/O, modern trash
A07.28	II	12	28	10YR 5/4	Loamy Sand	Bw
A07.28	III	28	53	7.5YR 5/4	Loamy Sand	Bw
A07.28	IV	53	81	10YR 4/4	Loamy Sand	Bw
A07.28	V	81	100	10YR 5/6	Sand	C horizon
A07.29	I	0	16	10YR 3/2	Sand	None
A07.29	II	16	30	10YR 4/3	Sand	Rounded and subrounded rocks and gravel present
A07.29	III	30	50	10YR 5/3	Sand	Rounded and subrounded rocks and gravel present
A07.29	IV	50	100	10YR 5/6	Sand	Rounded and subrounded rocks and gravel present
A07.30	I	0	12	10YR 4/2	Sandy Loam	Land A
A07.30	II	12	70	10YR 5/2	Loamy Sand	Fill mixed with 10YR 4/6
A07.30	III	70	80	10YR 6/2	Sand	Coarse sand subsoil
A07.31	I	0	6	10YR 2/2	Sandy Loam	None
A07.31	II	6	16	10YR 4/2	Sand	None
A07.31	III	16	51	7.5YR 4/4	Sand	Oxidized, very rocky with rounded and subrounded material.
A07.31	IV	51	67	10YR 5/2	Sand	Very rocky (subrounded and rounded), ended for compact rocky excavation impasse.
A07.32	I	0	8	10YR 4/3	Sand	Landscape A
A07.32	II	8	34	10YR 4/4	Sand	Fill
A07.32	III	34	80	10YR 5/4	Sand	Redeposited B
A07.32	IV	80	100	10YR 6/4	Sand	C
A08.01	I	0	15	10YR 3/2	Sandy Loam	Very rocky (well rounded, rounded and sub rounded.)

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
A08.01	II	15	32	10YR 4/3	Sand	Very rocky (well rounded, rounded and sub rounded.)
A08.01	III	32	85	10YR 6/4	Sand	Very rocky (well rounded, rounded and sub rounded.)
A08.01	IV	85	100	10YR 7/2	Sand	Very rocky (well rounded, rounded and sub rounded.)
A08.02	I	0	9	10YR 4/2	Sandy Loam	Landscape A
A08.02	II	9	28	10YR 5/2	Loamy Sand	Fill
A08.02	III	28	70	10YR 5/6	Sand	B2
A08.02	IV	70	100	10YR 6/2	Sand	Coarse sand subsoil
A08.03	I	0	13	10YR 3/3	Sand	None
A08.03	II	13	35	10YR 4/3	Sand	Rounded and subrounded rocks and gravel present
A08.03	III	35	80	10YR 5/3	Sand	Rounded and subrounded rocks and gravel present
A08.03	IV	80	100	10YR 6/3	Sand	Rounded and subrounded rocks and gravel present
A08.04	I	0	20	10YR 5/2	Sand	Landscape A
A08.04	II	20	24	10YR 4/4	Sand	Fill- hit buried line
A08.05	I	0	16	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded and sub rounded.)
A08.05	II	16	88	10YR 5/3	Sand	Very rocky (well rounded, rounded and sub rounded.)
A08.05	III	88	100	10YR 5/6	Sand	Very rocky (well rounded, rounded and sub rounded.) Ended for meter deep.
A08.06	I	0	19	10YR 5/3	Sandy Loam	Landscape A
A08.06	II	19	70	10YR 4/6	Loamy Sand	Compacted Redeposited B
A08.07	I	0	15	10YR 3/3	Sand	None
A08.07	II	15	100	10YR 5/3	Sand	Rounded and subrounded rocks and gravel present
A08.08	I	0	20	10YR 5/3	Sandy Loam	Landscape A
A08.08	II	20	49	10YR 4/3	Loamy Sand	Fill

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
A08.08	III	49	80	10YR 4/6	Sand	B
A08.08	IV	80	90	10YR 5/4	Sand	B2
A08.08	V	90	100	10YR 6/4	Sand	C
A08.09	I	0	9	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded).
A08.09	II	9	24	10YR 4/2	Sand	Very rocky (well rounded, rounded, and sub rounded)
A08.09	III	24	74	10YR 5/3	Sand	Very rocky (well rounded, rounded, and sub rounded)
A08.09	IV	74	100	10YR 6/3	Sand	Very rocky (well rounded, rounded, and sub rounded), ended for meter deep.
A08.10	I	0	11	10YR 4/2	Sandy Loam	Landscape A
A08.10	II	11	33	10YR 4/6	Loamy Sand	Redeposited B mixed with 10YR 5/6 and some rubber and plastic trash with root impasse at 33cmts
A08.11	I	0	15	10YR 3/3	Sand	None
A08.11	II	15	40	10YR 4/3	Sand	Rounded and subrounded rocks present
A08.11	III	40	75	10YR 5/3	Sand	Large rounded and subrounded rocks present
A08.12	I	0	11	10YR 5/3	Sandy Loam	Landscape A
A08.12	II	11	50	10YR 4/4	Loamy Sand	Fill- asphalt present not collected
A08.12	III	50	59	10YR 4/6	Loamy Sand	Very compacted B
A08.13	I	0	15	10YR 4/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
A08.13	II	15	82	10YR 4/6	Sand	Very rocky (well rounded, rounded, and sub rounded) Ended for compaction impasse.
A08.14	I	0	8	10YR 4/2	Sandy Loam	Landscape A
A08.14	II	8	43	10YR 5/2	Loamy Sand	Full mixed with 10YR 4/6 and 10YR 5/6 with oxidation and asphalt. Compaction impasse
A08.15	I	0	13	10YR 3/3	Sand	None
A08.15	II	13	30	10YR 4/3	Sand	Rounded and subrounded rocks present
A08.15	III	30	100	10YR 5/3	Sandy Loam	Rounded and subrounded rocks present

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
A08.16	I	0	37	10YR 3/3	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
A08.16	II	37	71	10YR 4/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded) ended for compaction impasse.
A08.17	I	0	17	10YR 5/3	Sandy Loam	Landscape A
A08.17	II	17	47	10YR 4/4	Loamy Sand	Fill
A08.17	III	47	66	10YR 4/6	Loamy Sand	B
A08.18	I	0	18	10YR 4/2	Loamy Sand	Landscape A
A08.18	II	18	66	10YR 5/4	Loamy Sand	Bw
A08.18	III	66	100	10YR 5/6	Sand	Loose C horizon, >30% gravels
A08.19	I	0	10	10YR 3/3	Sand	None
A08.19	II	10	40	10YR 4/3	Sand	Rounded and subrounded rocks present
A08.19	III	40	100	10YR 5/3	Sand	Rounded and subrounded rocks present
A08.20	I	0	10	10YR 4/2	Sandy Loam	Land A
A08.20	II	10	50	10YR 4/6	Loamy Sand	Compacted fill layer with plastic and asphalt
A08.20	III	50	82	10YR 5/6	Sand	B2
A08.20	IV	82	100	10YR 6/2	Sand	Coarse sand subsoil
A08.21	I	0	15	10YR 3/2	Loamy Sand	Landscape A
A08.21	II	15	33	10YR 4/4	Loamy Sand	Bw
A08.21	III	33	78	10YR 5/4	Loamy Sand	Bw
A08.21	IV	78	100	10YR 5/6	Sand	Loose C horizon, >30% rounded gravels
A08.22	I	0	5	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
A08.22	I	0	13	10YR 4/3	Loamy Sand	Landscape A
A08.22	II	5	15	10YR 4/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded). Excavation impasse, asphalt covering entirety of STP in strat II.
A08.22	II	13	48	10YR 4/6	Loamy Sand	Fill with asphalt and glass
A08.22	III	48	72	10YR 5/6	Loamy Sand	B2

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
A08.22	IV	72	90	10YR 6/2	Sand	Coarse sand subsoil
A08.23	I	0	20	10YR 5/3	Sandy Loam	Landscape A
A08.23	II	20	56	10YR 4/4	Loamy Sand	Fill
A08.23	III	56	56	10YR 4/6	Loamy Sand	B compacted
A08.23	IV	56	68	10YR 5/4	Sand	B2
A08.23	V	68	80	10YR 6/3	Sand	C
A08.24	I	0	13	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
A08.24	II	13	41	10YR 4/2	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
A08.24	III	41	82	10YR 4/6	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for compaction impasse.
A08.25	I	0	10	10YR 3/2	Sandy Loam	Landscape A
A08.25	II	10	45	10YR 4/4	Sandy Loam	Bw
A08.25	III	45	85	10YR 5/4	Loamy Sand	Bw
A08.25	IV	85	100	10YR 5/6	Sand	C horizon, >30% gravels
A08.26	I	0	19	10YR 5/3	Sandy Loam	Landscape A
A08.26	II	19	54	10YR 4/3	Loamy Sand	Redeposited B plastic asphalt present not collected
A08.26	III	54	90	10YR 4/6	Loamy Sand	B2
A08.26	IV	90	100	10YR 6/3	Sand	C
A08.27	I	0	23	10YR 3/3	Sand	None
A08.27	II	23	23	10YR 4/3	Sand	Rounded and subrounded rocks present
A08.27	III	23	100	10YR 5/6	Sand	Rounded and subrounded rocks present
A08.28	I	0	30	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
A08.28	II	30	81	10YR 5/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
A08.28	III	81	100	10YR 6/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for meter deep
A08.29	I	0	21	10YR 4/2	Sandy Loam	Land A
A08.29	II	21	50	10YR 4/6	Loamy Sand	Compact redeposited soil with asphalt and plastic
A08.29	III	50	74	10YR 5/6	Loamy Sand	B2
A08.29	IV	74	100	10YR 6/2	Sand	Coarse sand subsoil
A08.30	I	0	22	10YR 3/3	Sand	None
A08.30	II	22	80	10YR 5/3	Sand	Rounded and subrounded rocks present
A08.30	III	80	100	10YR 5/6	Sand	None
A08.31	I	0	18	10YR 4/2	Sandy Loam	Land A
A08.31	II	18	50	10YR 5/2	Loamy Sand	Fill mixes with asphalt and 10YR 4/6
A08.31	III	50	100	10YR 5/6	Sand	Fill with asphalt, glass and pockets of 10YR 6/2
A08.32	I	0	16	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
A08.32	II	16	100	10YR 5/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for meter deep.
A08.34	I	0	15	10YR 3/3	Sand	None
A08.34	II	15	85	10YR 5/6	Sand	Rounded and subrounded rocks present
A08.34	III	85	100	10YR 6/4	Sand	Rounded and subrounded rocks present
A08.35	I	0	21	10YR 5/3	Sandy Loam	Landscape A
A08.35	II	21	42	10YR 4/4	Loamy Sand	Fill
A08.36	I	0	12	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
A08.36	II	12	36	10YR 5/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for buried utility.
A08.37	I	0	18	10YR 3/3	Sand	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
A08.37	II	18	40	10YR 4/6	Sand	Rounded and subrounded rocks present
A08.37	III	40	90	10YR 5/6	Sand	Rounded and subrounded rocks present
A08.37	IV	90	100	10YR 6/4	Sand	Rounded and subrounded rocks present
A08.38	I	0	10	10YR 4/3	Sandy Loam	Land A
A08.38	I	0	10	10YR 4/3	Sandy Loam	Land A
A08.38	II	10	20	10YR 4/2	Loamy Sand	Buried A
A08.38	II	10	20	10YR 4/2	Loamy Sand	Buried A
A08.38	III	20	53	10YR 4/6	Loamy Sand	B1
A08.38	III	20	53	10YR 4/6	Loamy Sand	B1
A08.38	IV	53	76	10YR 5/6	Loamy Sand	B2
A08.38	IV	53	76	10YR 5/6	Loamy Sand	B2
A08.38	V	76	100	10YR 6/2	Sand	Coarse sand subsoil
A08.38	V	76	100	10YR 6/2	Sand	Coarse sand subsoil
A08.39	I	0	13	10YR 3/3	Loamy Sand	Landscape A
A08.39	II	13	44	10YR 4/4	Loamy Sand	Bw
A08.39	III	44	74	10YR 5/4	Loamy Sand	Bw
A08.39	IV	74	100	10YR 5/6	Sand	C horizon loose sand and gravel
A08.40	I	0	12	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
A08.40	II	12	100	10YR 5/4	Sand	Very rocky (well rounded, rounded, and sub rounded), ended for meter deep
A08.41	I	0	11	10YR 5/3	Sandy Loam	Landscape A
A08.41	II	11	62	10YR 4/3	Loamy Sand	Fill banded with oxidized 10 YR 4/6, asphalt tile present not collected
A08.42	I	0	18	10YR 3/3	Sandy Loam	A/Ap
A08.42	II	18	50	10YR 4/4	Sandy Loam	Bw
A08.42	III	50	92	10YR 5/4	Loamy Sand	BC
A08.42	IV	92	100	7.5YR 4/4	Sand	Loose sand and gravel
A08.43	I	0	19	10YR 3/3	Sand	None
A08.43	II	19	30	10YR 5/3	Sand	Rounded and subrounded rocks present

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
A08.43	III	30	40	10YR 5/1	Sand	Gravel fill
A08.43	IV	40	65	10YR 5/6	Sand	Rounded and subrounded rocks present, excavation impasse, large root
A08.44	I	0	21	10YR 4/2	Loamy Sand	Banded fill with 10YR 4/4 and glass
A08.44	II	21	53	10YR 5/6	Loamy Sand	Mixed with 10YR 4/4 and glass throughout
A08.44	III	53	88	10YR 5/6	Sand	B2
A08.44	IV	88	100	10YR 6/2	Sand	Coarse sand subsoil
A08.45	I	0	16	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
A08.45	II	16	60	10YR 4/2	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
A08.45	III	60	100	10YR 5/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for meter deep.
A08.46	I	0	7	10YR 4/2	Sandy Loam	Mulch and Land A over geofabric landscape material, STP terminated.
A08.47	I	0	38	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
A08.47	II	38	100	10YR 5/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for meter deep.
A08.48	I	0	11	10YR 5/3	Sandy Loam	Landscape A
A08.48	II	11	45	10YR 4/4	Loamy Sand	Fill
A08.48	III	45	92	10YR 4/6	Loamy Sand	B
A08.48	IV	92	100	10YR 6/4	Sand	C
A08.49	I	0	14	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
A08.49	II	14	65	10YR 5/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for excavation impasse, buried utility.
A08.50	I	0	25	10YR 4/2	Sandy Loam	Land A
A08.50	II	25	60	10YR 4/6	Loamy Sand	B1

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
A08.50	III	60	86	10YR 5/6	Sand	B2
A08.50	IV	86	98	10YR 6/2	Sand	Coarse sand subsoil with oxidation
A08.51	I	0	20	10YR 3/3	Sand	None
A08.51	II	20	35	10YR 4/3	Sand	Rounded and subrounded rocks present
A08.51	III	35	90	10YR 5/3	Sand	Rounded and subrounded rocks present
A08.51	IV	90	100	10YR 5/6	Sand	Rounded and subrounded rocks present
A08.52	I	0	18	10YR 5/3	Sandy Loam	Landscape A
A08.52	II	18	68	10YR 4/4	Sandy Loam	Fill
A08.52	III	68	75	10YR 4/6	Sand	B
A08.52	IV	75	90	10YR 5/4	Sand	B2
A08.52	V	90	100	10YR 6/4	Sand	C
A08.53	I	0	36	10YR 4/3	Sandy Loam	Ap
A08.53	II	36	70	10YR 5/4	Sandy Loam	Bw
A08.53	III	70	85	10YR 5/4	Loamy Sand	BC
A08.53	IV	85	100	7.5YR 4/4	Sand	C horizon sand and gravels
A08.54	I	0	9	10YR 2/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
A08.54	II	9	42	10YR 4/2	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
A08.54	III	42	100	10YR 5/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for meter deep.
A08.55	I	0	12	10YR 3/3	Sand	None
A08.55	II	12	30	10YR 4/4	Sand	Rounded and subrounded rocks present
A08.55	III	30	90	10YR 5/4	Sand	Rounded and subrounded rocks present
A08.55	IV	90	100	10YR 5/6	Sand	Rounded and subrounded rocks present
A08.56	I	0	10	10YR 4/2	Loamy Sand	Land A
A08.56	II	10	100	10YR 5/6	Sand	Banded fill mixed with 10YR 4/6, 10YR 6/2 and 10YR 5/2. Asphalt, glass and plastic trash throughout

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
A08.57	I	0	26	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
A08.57	II	26	100	10YR 4/6	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded) ended for meter deep.
A08.58	I	0	13	10YR 5/3	Sandy Loam	Landscape A
A08.58	II	13	29	10YR 2/2	Sand	Fill
A08.58	III	29	50	10YR 5/4	Sand	Fill
A08.58	IV	50	61	10YR 4/6	Sand	B extremely compacted
A09.01	I	0	25	10YR 3/3	Sand	None
A09.01	II	25	65	10YR 4/4	Sand	Rounded and subrounded rocks present, excavation impasse pvc pipe
A09.02	I	0	28	10YR 5/2	Sand	Fill dense with asphalt, glass and plastic trash
A09.02	II	28	43	10YR 5/6	Sand	Fill with asphalt chunks throughout leading to impasse at 43cmbs
A09.03	I	0	30	10YR 4/3	Sand	Fill asphalt and modern trash present not collected
A09.03	II	30	57	10YR 4/4	Sand	Fill asphalt and modern trash present not collected
A09.04	I	0	23	10YR 3/3	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
A09.04	II	23	50	10YR 4/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
A09.04	III	50	90	10YR 4/2	Sand	Very rocky (well rounded, rounded, and sub rounded) ended for rocky impasse.
A09.05	I	0	15	10YR 4/2	Loamy Sand	Overburden
A09.05	II	15	100	10YR 4/6	Sand	Fill dense with asphalt and mixed with 10YR 5/2
A09.06	I	0	15	10YR 4/3	Sandy Loam	A/Ap
A09.06	II	15	52	10YR 4/4	Sandy Loam	Bw
A09.06	III	52	86	10YR 5/4	Loamy Sand	BC

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
A09.06	IV	86	100	7.5YR 4/4	Sand	C horizon sand and gravel
A09.07	I	0	15	10YR 3/3	Sand	Many rounded and subrounded rocks present
A09.07	II	15	60	10YR 4/3	Sand	Rounded and subrounded rocks present
A09.07	III	60	100	10YR 5/6	Sand	Rounded and subrounded rocks present
A09.08	I	0	18	10YR 5/3	Loamy Sand	Overburden
A09.08	II	18	58	10YR 4/4	Sand	Fill asphalt and modern trash present not collected
A09.09	I	0	10	10YR 4/2	Sand	Landscape A
A09.09	II	10	51	10YR 5/2	Sand	Fill dense with asphalt, glass and cobbles. Bottom of STP is a buried layer of asphalt leading to impasse at 51cmbs
A09.10	I	0	14	10YR 4/2	Sandy Loam	A/Ap, gravel lense on top. Modern beer bottle glass DIF
A09.10	II	14	51	10YR 4/4	Sandy Loam	BW
A09.10	III	51	111	10YR 5/4	Loamy Sand	BC
C07.01	I	0	34	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
C07.01	II	34	80	10YR 5/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
C07.01	III	80	100	10YR 7/1	Sand	Very rocky (well rounded, rounded, and sub rounded)
C07.02	I	0	14	10YR 5/3	Sandy Loam	Landscape A
C07.02	II	14	62	10YR 5/4	Sand	Fill
C07.03	I	0	50	10YR 3/3	Sand	Rounded and subrounded rocks present
C07.03	II	50	65	10YR 5/4	Sand	Rounded and subrounded rocks present
C07.03	III	65	90	10YR 4/4	Sand	Rounded and subrounded rocks present, excavation impasse, pipe
C07.04	I	0	56	10YR 5/2	Loamy Sand	Fill mixed with 10YR 4/6, dense with plastic trash and asphalt. Ground wasp impasse.
C07.05	I	0	20	10YR 3/3	Sandy Loam	Roadside Fill/A, modern trash throughout
C07.05	II	20	55	10YR 6/2	Sand	Mottled with 10YR 4/4 LoSa, modern trash throughout

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
C07.05	III	55	70	10YR 2/2	Sandy Loam	Disturbed. Red plastic caution tape for unknown buried utility at base of STpq
C07.06	I	0	29	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
C07.06	II	29	41	10YR 5/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended testing for unknown buried utility found in C07.05.
C07.07	I	0	35	10YR 4/2	Loamy Sand	Compact fill with road trash- STP terminated due to buried unmarked utility
C07.08	I	0	3	10YR 5/3	Loamy Sand	None
C08.01	I	0	47	10YR 5/3	Sand	Fill asphalt and modern trash present not collected
C08.01	II	47	56	10YR 5/4	Sand	Fill asphalt and modern trash present not collected
C08.02	I	0	30	10YR 3/3	Sand	Rounded and subrounded rocks present
C08.02	II	30	40	10YR 4/4	Sand	Many rounded and subrounded rocks present
C08.02	III	40	60	10YR 4/6	Sand	Many rounded and subrounded rocks present, excavation impasse due to compacted rocks
C08.03	I	0	41	10YR 5/4	Loamy Sand	Fill asphalt and modern trash present not collected
C08.03	II	41	80	10YR 5/4	Sand	Fill asphalt and modern trash present not collected
C08.03	III	80	100	10YR 4/6	Sandy Loam	B
D1.01	I	0	24	10YR 3/2	Sandy Loam	Intact A horizon
D1.01	II	24	73	10YR 4/6	Sandy Loam	20% gravels, B horizon
D1.01	III	73	100	10YR 6/4	Sand	Very coarse sand, C horizon
D1.02	I	0	24	10YR 3/2	Sandy Loam	Intact A
D1.02	II	24	72	10YR 4/6	Sand	Intact B; medium sand
D1.02	III	72	100	10YR 6/4	Sand	Intact C; coarse sand
E04.01	I	0	23	10YR 4/2	Sandy Loam	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
E04.01	II	23	60	10YR 5/4	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
E04.01	III	60	100	10YR 5/6	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for meter deep.
E04.02	I	0	11	10YR 4/2	Sandy Loam	Landscape A
E04.02	II	11	52	10YR 5/4	Sandy Loam	Fill extremely compacted
E04.03	I	0	14	10YR 4/1	Sandy Loam	None
E04.03	II	14	37	10YR 4/3	Sandy Loam	None
E04.03	III	37	62	7.5YR 5/4	Sand	Compacted
E04.03	IV	62	100	10YR 6/4	Sand	Sterile subsoil
E04.04	I	0	24	10YR 4/2	Sandy Loam	Landscape A
E04.04	II	24	64	10YR 5/4	Loamy Sand	B2
E04.04	III	64	74	10YR 6/2	Sand	Coarse sand subsoil with cobbles
E04.05	I	0	8	10YR 4/2	Sand	Overburden
E04.05	II	8	100	10YR 4/4	Sand	Banded fill
E04.06	I	0	14	10YR 4/2	Sandy Loam	None
E04.06	II	14	29	10YR 4/4	Sandy Loam	Rounded and subrounded cobbles
E04.06	III	29	59	10YR 5/4	Sand	Rounded and subrounded cobbles
E04.06	IV	59	100	10YR 6/3	Sand	Sterile subsoil
E04.07	I	0	13	10YR 4/2	Sandy Loam	Rocky overburden
E04.07	II	13	100	10YR 4/4	Sand	Loose coarse sand fill, very rocky, mixed with 6/3 and 5/4 sand. Ended for meter deep.
E04.08	I	0	72	10YR 4/2	Sandy Loam	Fill
E04.08	II	72	100	10YR 5/6	Loamy Sand	B2
E04.09	I	0	23	10YR 4/1	Sandy Loam	Modern trash
E04.09	II	23	62	10YR 5/3	Sand	Rounded and sub rounded gravel
E04.09	III	62	100	10YR 4/3	Sand	None
E04.10	I	0	8	10YR 4/2	Sandy Loam	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
E04.10	II	8	70	10YR 5/4	Sandy Loam	Rounded and subrounded rocks present, excavation impasse for significant compaction
E1.01	I	0	12	10YR 3/3	Silt Loam	Fill layer
E1.01	II	12	50	10YR 4/4	Sandy Loam	Compact with 20% gravels, fill layer
E1.01	III	50	70	10YR 4/2	Sandy Loam	Mixed with 10YR 6/4, compact, fibrous material and modern glass found in this level and discarded, partially disturbed buried A horizon
E1.01	IV	70	100	10YR 6/3	Sand	Intact C horizon
E1.02	I	0	8	10YR 3/2	Sandy Loam	Landscaped A
E1.02	II	8	40	10YR 4/6	Sand	Subsoil fill; mixed with irregular lenses of Stratum I; modern plastic and glass discarded
E1.02	III	40	72	10YR 3/2	Sandy Loam	Topsoil fill; mixed with irregular lenses of 10YR 4/6 sand; modern plastic and glass discarded
E1.02	IV	72	100	10YR 4/6	Sand	Intact B
E1.03	I	0	10	10YR 3/2	Sandy Loam	Compact, disturbed
E1.03	II	10	26	10YR 4/3	Sandy Loam	Mixed with 10YR 4/6, compact, 20% gravels, disturbed
E1.03	III	26	40	10YR 4/2	Sandy Loam	Intact A horizon
E1.03	IV	40	80	10YR 4/6	Sandy Loam	30% cobbles, B horizon
E1.03	V	80	100	10YR 6/4	Sand	Coarse sand, C horizon
E1.04	I	0	30	10YR 3/2	Sandy Loam	Landscaped A; modern plastic discarded
E1.04	II	30	73	10YR 5/4	Sandy Loam	Intact B; trace silt; moist; medium sand
E1.04	III	73	100	10YR 6/4	Sand	Intact C; coarse sand
E1.05	I	0	36	10YR 4/3	Sandy Loam	50555
E1.05	II	36	50	10YR 4/4	Loamy Sand	B
E1.06	I	0	30	10YR 3/2	Sandy Loam	Intact O/A horizon
E1.06	II	30	75	10YR 4/6	Sandy Loam	20% cobbles, intact B horizon

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
E1.06	III	75	100	10YR 6/4	Sand	Intact C horizon
E1.07	I	0	23	10YR 4/3	Sandy Loam	Mixed with 10YR 4/4, overburden
E1.07	II	23	63	10YR 4/4	Sandy Loam	B soil, rock impasse
E1.08	I	0	10	10YR 2/2	Sandy Loam	Intact Ao
E1.08	II	10	18	10YR 4/4	Sandy Loam	Intact A
E1.08	III	18	69	10YR 4/6	Sandy Loam	Intact Bw
E1.08	IV	69	80	10YR 5/4	Sand	Intact Bw; medium sand
E1.08	V	80	100	10YR 6/3	Sand	Intact C
E1.09	I	0	40	10YR 4/3	Sandy Loam	Overburden- asphalt not collected
E1.09	II	40	59	10YR 4/6	Loamy Sand	B
E1.09	III	59	86	10YR 5/4	Sand	B2
E1.09	IV	86	100	10YR 6/3	Sand	C
E1.10	I	0	28	10YR 3/2	Sandy Loam	Intact O/A horizon, well developed O
E1.10	II	28	65	10YR 4/6	Sandy Loam	30% cobbles, intact B horizon
E1.10	III	65	100	10YR 6/4	Sand	Intact C horizon
E1.11	I	0	34	10YR 4/3	Sandy Loam	Mixed with 10 YR 4/4, overburden
E1.11	II	34	66	10YR 4/4	Sandy Loam	B horizon
E1.11	III	66	88	10YR 4/6	Sandy Loam	B2 horizon
E1.11	IV	88	100	10YR 6/4	Sand	Subsoil
E1.12	I	0	33	10YR 3/2	Sandy Loam	Intact O/A horizon, well developed O horizon
E1.12	II	33	73	10YR 4/6	Sandy Loam	Intact B horizon
E1.12	III	73	100	10YR 6/4	Sand	Intact C horizon
E2.01	I	0	25	10YR 3/2	Sandy Loam	Intact O/A horizon
E2.01	II	25	73	10YR 4/6	Sandy Loam	Intact B horizon
E2.01	III	73	100	10YR 6/4	Sand	Intact C horizon
E2.02	I	0	22	10YR 4/3	Sandy Loam	Overburden
E2.02	II	22	64	10YR 4/4	Loamy Sand	B
E2.03	I	0	18	10YR 4/3	Sandy Loam	Overburdenwith plastic
E2.03	II	18	68	10YR 4/4	Sandy Loam	B soil

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
E2.03	III	68	80	10YR 4/6	Sandy Loam	Rock impasse, b soil
E2.04	I	0	15	10YR 3/2	Sandy Loam	Intact A horizon
E2.04	II	15	82	10YR 4/6	Sandy Loam	At the base there is a 20% gravel concentration, Intact B horizon
E2.04	III	82	100	10YR 6/4	Sand	Intact C horizon
E2.05	I	0	21	10YR 4/3	Sandy Loam	Overburden
E2.05	II	21	54	10YR 4/6	Loamy Sand	None
E2.06	I	0	32	10YR 3/2	Sandy Loam	Fill; modern beer glass discarded
E2.06	II	32	52	10YR 4/3	Sandy Loam	Disturbed A; compact; modern beer glass discarded
E2.06	III	52	90	10YR 4/6	Sand	Intact Bw; medium sand
E2.06	IV	90	100	10YR 6/3	Sand	Intact C; coarse sand
E2.07	I	0	50	10YR 4/3	Sandy Loam	Slopewash/overburden with trash at base of slope
E2.07	II	50	70	10YR 4/4	Sandy Loam	Rock impasse at 70cmbs, natural b soil
E2.08	I	0	28	10YR 4/4	Sandy Loam	ToP half is the 10YR 4/4 sand loam, bottom half is 10YR 6/3 coarse sand, disturbed fill
E2.08	II	28	48	10YR 4/3	Sandy Loam	Top 2/3 is the 10YR 4/3 sand loam, bottom 1/3 is 10YR 6/3 coarse sand, disturbed fill
E2.08	III	48	77	10YR 5/4	Sandy Loam	With lenses of 10YR 4/1, disturbed fill
E2.08	IV	77	84	10YR 3/2	Sandy Loam	Intact A horizon
E2.08	V	84	100	10YR 4/6	Sandy Loam	25% cobbles, Intact B horizon
E2.09	I	0	69	10YR 4/3	Sandy Loam	Overburden slopewash B mottled, dense cobbles
E2.10	I	0	57	10YR 4/2	Sandy Loam	Trash throughout, overburden/slopewash
E2.10	II	57	84	10YR 4/3	Sandy Loam	Mixed with 10YR 4/2, trash throughout. Rock impasse at base
E2.11	I	0	17	10YR 3/2	Sandy Loam	Intact A horizon
E2.11	II	17	85	10YR 4/6	Sandy Loam	Intact B horizon
E2.11	III	85	100	10YR 6/4	Sand	Intact C horizon
E3.01	I	0	23	10YR 3/3	Sandy Loam	Overburden, plastic, asphalt, not collected

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
E3.01	II	23	52	10YR 4/4	Loamy Sand	B
E3.02	I	0	27	10YR 3/2	Sandy Loam	Intact A horizon
E3.02	II	27	80	10YR 4/6	Sandy Loam	Intact B horizon
E3.02	III	80	100	10YR 6/4	Sand	Intact C horizon
E3.03	I	0	20	10YR 4/2	Sandy Loam	Overburden with trash
E3.03	II	20	100	10YR 4/4	Sandy Loam	B horizon
E3.04	I	0	16	10YR 3/2	Sandy Loam	Intact A
E3.04	II	16	50	10YR 4/6	Sandy Loam	Intact Bw
E3.04	III	50	82	10YR 5/4	Sand	Intact Bw; medium sand
E3.04	IV	82	100	10YR 6/2	Sand	Intact C; coarse sand
E3.05	I	0	22	10YR 3/2	Sandy Loam	Intact A horizon
E3.05	II	22	78	10YR 4/6	Sandy Loam	20% gravels, intact B horizon
E3.05	III	78	100	10YR 6/4	Sand	Intact C horizon
E3.06	I	0	19	10YR 4/2	Sandy Loam	Overburden asphalt, plastic
E3.06	II	19	79	10YR 4/6	Loamy Sand	B
E3.07	I	0	23	10YR 3/2	Sandy Loam	Intact A horizon
E3.07	II	23	81	10YR 4/6	Sandy Loam	20% cobbles, intact B horizon
E3.07	III	81	100	10YR 6/6	Sand	Intact C horizon
E3.08	I	0	20	10YR 4/2	Sandy Loam	Overburden with trash
E3.08	II	20	77	10YR 4/6	Sandy Loam	B horizon
E3.08	III	77	100	10YR 5/6	Sandy Loam	B2
E3.09	I	0	26	10YR 4/2	Sandy Loam	Overburden
E3.10	I	0	23	10YR 3/2	Sandy Loam	Intact A horizon
E3.10	II	23	84	10YR 4/6	Sandy Loam	20% cobbles, intact B horizon
E3.10	III	84	100	10YR 6/4	Sand	Intact C horizon
E3.11	I	0	14	10YR 3/2	Sandy Loam	Intact Ao
E3.11	II	14	20	10YR 4/2	Sandy Loam	Intact Ae
E3.11	III	20	85	10YR 4/6	Sand	Intact Bw; medium sand
E3.11	IV	85	100	10YR 6/4	Sand	Intact C; coarse sand

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
E3.12	I	0	28	10YR 4/2	Sandy Loam	Overburden
E3.12	II	28	86	10YR 4/6	Loamy Sand	B
E3.13	I	0	18	10YR 3/2	Sandy Loam	Intact A horizon
E3.13	II	18	71	10YR 4/6	Sandy Loam	30% cobbles, intact B horizon
E3.13	III	71	100	10YR 6/4	Sand	Coarse sand, intact C horizon
E3.14	I	0	32	10YR 4/2	Sandy Loam	Overburden slopewash- glass, plastic not collected
E3.14	II	32	64	10YR 4/6	Loamy Sand	None
E3.15	I	0	26	10YR 4/2	Sandy Loam	Overburden/push- stp is 5m from culvert
E3.15	II	26	87	10YR 6/4	Sand	Mixed with 10YR 4/4 and contained glass and plastic trash. Asphalt/rock impasse
E3.16	I	0	38	10YR 3/2	Sandy Loam	With alternating bands of 10YR 4/4 silt, intact A horizon?
E3.16	II	38	100	10YR 4/6	Sandy Loam	Intact B horizon, very bottom was starting to pick up gravels
E3.17	I	0	20	10YR 4/2	Loamy Sand	Intact A
E3.17	II	20	44	10YR 4/6	Sand	Intact C; coarse sand dense with till; gravel impasse
E3.18	I	0	26	10YR 4/3	Sandy Loam	Overburden slopewash, plastic not collected
E3.18	II	26	45	10YR 4/4	Sand	B
E3.18	III	45	77	10YR 4/4	Sand	B compacted
E3.18	IV	77	100	10YR 6/4	Sand	C
E3.19	I	0	37	10YR 4/2	Sandy Loam	Intact A
E3.19	II	37	60	10YR 4/6	Sand	Intact C; coarse sand dense with gravels; gravel impasse
E3.20	I	0	26	10YR 3/2	Sandy Loam	Intact A horizon
E3.20	II	26	58	10YR 4/6	Sandy Loam	Very compact Intact B horizon
E3.20	III	58	72	10YR 4/6	Sandy Loam	80% gravels, C horizon
E3.20	IV	72	100	10YR 6/3	Sand	Coarse sand, C horizon
F1.01	I	0	42	10YR 4/3	Sandy Loam	Overburden side of the road- plastic not collected

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
F1.01	II	42	83	10YR 4/4	Sand	B
F1.01	III	83	100	10YR 4/6	Sand	B2
F1.02	I	0	12	10YR 3/1	Sandy Loam	Intact A horizon
F1.02	II	12	78	10YR 5/3	Sandy Loam	Mottles of 10YR 4/6, 10YR 6/2, and 5YR 5/4, Intact B horizon
F1.02	III	78	100	10YR 6/3	Sand	80% pea gravel, C horizon
F1.03	I	0	14	10YR 3/1	Sandy Loam	Intact A
F1.03	II	14	22	10YR 5/2	Sandy Loam	Intact Ae
F1.03	III	22	60	10YR 4/4	Sand	Intact Bw; medium sand
F1.03	IV	60	85	10YR 4/4	Sand	Intact C; dense with gravels; medium sand
F1.03	V	85	100	10YR 6/4	Sand	Intact C; dense with gravels; coarse sand
F1.04	I	0	30	10YR 4/3	Sandy Loam	A horizon with organics
F1.04	II	30	85	10YR 4/6	Loamy Sand	B1
F1.04	III	85	100	10YR 4/4	Loamy Sand	B2
F1.05	I	0	10	10YR 3/1	Sandy Loam	Intact A horizon
F1.05	II	10	14	10YR 6/2	Sandy Loam	Intact E horizon
F1.05	III	14	80	10YR 5/3	Sandy Loam	With mottles of 5YR4/4, 10YR 6/4 , and 10YR 4/4
F1.05	IV	80	100	7.5YR 5/4	Sand	70% gravels, intact C horizon
F1.06	I	0	22	10YR 4/2	Sandy Loam	A
F1.06	II	22	32	10YR 6/1	Sandy Loam	Ae
F1.06	III	32	83	10YR 4/6	Sand	B1
F1.06	IV	83	100	7.5YR 4/6	Sand	B2
F1.07	I	0	11	10YR 2/2	Sandy Loam	Intact AO
F1.07	II	11	25	10YR 4/3	Sandy Loam	Intact Ae
F1.07	III	25	48	10YR 4/6	Loamy Sand	Intact Bw; medium sand
F1.07	IV	48	89	10YR 4/4	Sand	Intact Bw; medium sand
F1.07	V	89	100	7.5YR 5/4	Sand	Intact C; coarse sand
F1.08	I	0	22	10YR 3/2	Sandy Loam	Intact A horizon
F1.08	II	22	90	10YR 5/6	Sandy Loam	Intact B horizon

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
F1.08	III	90	100	7.5YR 5/4	Sand	Intact C horizon, no gravels, but root impass at 100 cmbgs
F1.09	I	0	13	10YR 3/2	Sandy Loam	Heavy organic layer
F1.09	II	13	20	10YR 5/3	Sand	E horizon
F1.09	III	20	35	10YR 4/4	Sandy Loam	B1
F1.09	IV	35	50	10YR 4/6	Loamy Sand	B2
F1.09	V	50	100	10YR 5/6	Sand	Possible B3
F1.10	I	0	11	10YR 3/1	Sandy Loam	Intact O/A horizon
F1.10	II	11	30	10YR 5/4	Sandy Loam	Intact B horizon
F1.10	III	30	50	10YR 5/8	Sandy Loam	Intact B horizon
F1.10	IV	50	100	10YR 5/3	Sand	Very saturated near base, gravels are picking up also near base, BC horizon
F1.11	I	0	9	10YR 2/1	Sandy Loam	Intact AO
F1.11	II	9	23	10YR 5/2	Loamy Sand	Intact E
F1.11	III	23	58	10YR 4/6	Loamy Sand	Intact Bw
F1.11	IV	58	90	10YR 5/4	Sand	Intact Bw; medium sand
F1.11	V	90	100	10YR 5/4	Sand	Intact C
F1.12	I	0	20	10YR 3/2	Sandy Loam	A
F1.12	II	20	27	10YR 5/2	Sand	Ae
F1.12	III	27	63	10YR 4/4	Sand	B
F1.13	I	0	12	10YR 3/2	Sandy Loam	Intact O/A horizon
F1.13	II	12	30	10YR 5/1	Sandy Loam	Intact E horizon
F1.13	III	30	78	10YR 5/4	Sand	Intact B horizon
F1.13	IV	78	90	10YR 5/3	Sand	85% gravels, intact C horizon
F1.14	I	0	34	10YR 2/2	Sandy Loam	Overburden with trash
F1.14	II	34	71	10YR 5/2	Sandy Loam	B1, heavy root activity
F1.15	I	0	17	10YR 4/2	Sandy Loam	Ao
F1.15	II	17	27	10YR 6/1	Loamy Sand	Ae
F1.16	I	0	26	10YR 3/1	Sandy Loam	Intact O /A horizon
F1.16	II	26	48	10YR 5/2	Sandy Loam	30% pebbles, E horizon?

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
F1.16	III	48	60	10YR 4/6	Sandy Loam	Intact B horizon
F1.16	IV	60	80	10YR 5/3	Sand	Intact C horizon , 75% cobbles
F10.01	I	0	22	10YR 3/2	Sandy Loam	Saturated hydric A soil with water inundation at 22cmbs
F10.02	I	0	25	10YR 2/1	Sandy Clay	O/Ag horizon
F10.02	II	25	40	5YR 3/4	Sandy Clay	Bg horizon
F10.03	I	0	23	10YR 3/2	Sandy Loam	Ao- wetland
F10.04	I	0	28	10YR 3/2	Sandy Loam	Hydric A, saturated with inundation at 28cmbs
F2.01	I	0	32	10YR 4/2	Sandy Loam	Thick root mat, inundated at 32cmbs
F2.02	I	0	21	10YR 4/2	Sandy Loam	Ao
F2.02	II	21	37	10YR 6/1	Loamy Sand	Ae
F2.02	III	37	54	10YR 4/6	Sand	B
F2.02	IV	54	65	10YR 5/6	Sand	B
F2.03	I	0	15	10YR 3/1	Sandy Loam	Intact O /A horizon
F2.03	II	15	30	10YR 6/2	Sandy Loam	Intact E horizon
F2.03	III	30	60	10YR 6/6	Sandy Loam	Intact B horizon
F2.03	IV	60	80	10YR 5/6	Sand	75% large gravels, intact C horizon, excavation terminated as per MVW
F2.04	I	0	17	10YR 4/2	Sandy Loam	A and Ao
F2.04	II	17	30	10YR 7/2	Sand	Ae
F2.04	III	30	48	10YR 4/6	Sandy Loam	B horizon
F2.04	IV	48	75	10YR 5/6	Sandy Loam	B2
F2.04	V	75	100	7.5YR 4/6	Loamy Sand	Subsoil
F2.05	I	0	18	10YR 3/1	Sandy Loam	Intact O/A horizon
F2.05	II	18	30	10YR 6/1	Sandy Loam	Intact E horizon
F2.05	III	30	64	10YR 4/6	Sandy Loam	Intact B horizon
F2.05	IV	64	100	10YR 6/4	Sand	Intact C horizon
F2.06	I	0	10	10YR 2/1	Sandy Loam	Intact AO
F2.06	II	10	29	10YR 4/4	Loamy Sand	Intact Ae; lenses of 10YR 5/2 at top

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
F2.06	III	29	42	10YR 4/6	Loamy Sand	Intact Bw; medium sand
F2.06	IV	42	100	10YR 5/6	Sand	Intact C; coarse sand
F2.07	I	0	15	10YR 4/2	Sandy Loam	Ao
F2.07	II	15	22	10YR 5/1	Sand	Ae
F2.07	III	22	52	10YR 4/6	Sand	B1
F2.07	IV	52	103	10YR 5/4	Sand	B2
F2.07	V	103	115	7.5YR 4/6	Sand	C
F2.08	I	0	24	10YR 5/3	Sandy Loam	O/A/E horizon, heavily churned by roots
F2.08	II	24	50	10YR 4/6	Sandy Loam	Intact B horizon
F2.08	III	50	85	10YR 6/4	Sand	Intact C horizon
F2.08	IV	85	100	10YR 5/4	Sand	80% gravels, pretty saturated, Intact C horizon
F2.09	I	0	13	10YR 2/1	Sandy Loam	Intact AO
F2.09	II	13	25	10YR 4/2	Loamy Sand	Intact AE
F2.09	III	25	57	10YR 5/6	Loamy Sand	Intact Bw; medium sand
F2.09	IV	57	85	10YR 5/4	Loamy Sand	Intact BC; medium sand
F2.09	V	85	100	10YR 5/4	Sand	Intact C
F2.10	I	0	14	10YR 4/2	Sandy Loam	Ao/developing A
F2.10	II	14	20	10YR 6/2	Sand	Ae
F2.10	III	20	38	10YR 4/6	Sandy Loam	B
F2.10	IV	38	110	10YR 5/6	Sand	B2
F2.10	V	110	140	10YR 6/3	Sand	Fine sand subsoil, water at 130cmbs
F2.11	I	0	24	10YR 5/3	Sandy Loam	Intact O/A/E horizon churned up by roots
F2.11	II	24	45	10YR 4/6	Sandy Loam	Intact B horizon
F2.11	III	45	100	10YR 6/4	Sand	Intact C horizon
F2.12	I	0	8	10YR 2/1	Sandy Loam	Intact AO
F2.12	II	8	30	10YR 4/4	Sandy Loam	Intact Ae with lens of 10YR 5/2 at top
F2.12	III	30	50	10YR 4/6	Loamy Sand	Intact Bw
F2.12	IV	50	78	10YR 5/6	Sand	Intact C; coarse sand

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
F2.12	V	78	100	10YR 5/4	Sand	Intact C; coarse sand
F2.13	I	0	18	10YR 4/2	Sandy Loam	Ao
F2.13	II	18	18	10YR 5/1	Sand	Ae
F2.13	III	18	64	10YR 4/6	Sand	B
F2.13	IV	64	100	10YR 5/6	Sand	C
F2.14	I	0	18	10YR 3/1	Sandy Loam	O/A horizon
F2.14	II	18	40	10YR 4/6	Sandy Loam	Intact B horizon
F2.14	III	40	60	10YR 5/4	Sand	75% gravels and wet, intact C horizon
F2.15	I	0	15	10YR 3/1	Sandy Loam	Intact O/A horizon
F2.15	II	15	46	10YR 5/4	Sandy Loam	Intact B horizon
F2.15	III	46	82	10YR 4/4	Sandy Loam	Intact B horizon
F2.15	IV	82	100	7.5YR 4/6	Sand	75% gravels, C horizon
F2.16	I	0	14	10YR 4/2	Sandy Loam	A
F2.16	II	14	82	10YR 4/6	Loamy Sand	B soil
F2.16	III	82	100	7.5YR 4/6	Sand	Sterile subsoil, coarse sand with cobbles
F3.01	I	0	16	10YR 2/2	Sandy Loam	Redeposited AO with plastic
F3.01	II	16	58	10YR 4/4	Sandy Loam	Redeposited Bw with plastic
F3.01	III	58	78	10YR 4/6	Sand	Intact C; roots throughout STP creating impasse
F3.02	I	0	15	10YR 4/2	Sandy Loam	Ao
F3.02	II	15	43	10YR 4/6	Sand	B1
F3.02	III	43	70	10YR 5/6	Sand	B2
F3.03	I	0	16	10YR 3/1	Sandy Loam	Intact O/A horizon
F3.03	II	16	54	10YR 5/4	Sandy Loam	Intact B horizon
F3.03	III	54	65	10YR 5/4	Sand	75% gravels, C horizon
F3.04	I	0	18	10YR 3/2	Sandy Loam	Intact O/A horizon
F3.04	II	18	45	10YR 5/4	Sandy Loam	Intact B horizon
F3.04	III	45	93	10YR 6/4	Sand	Intact C horizon
F3.05	I	0	15	10YR 4/2	Sandy Loam	Dev A with root mat

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
F3.05	II	15	20	10YR 6/2	Sand	Ae
F3.05	III	20	35	10YR 4/6	Sandy Loam	B
F3.05	IV	35	100	10YR 5/6	Sandy Loam	Saturated, inundated at 96cmbs
F3.06	I	0	12	10YR 2/1	Sandy Loam	Intact AO
F3.06	II	12	25	10YR 4/2	Loamy Sand	Intact AE
F3.06	III	25	62	10YR 5/6	Loamy Sand	Intact Bw; medium sand
F3.06	IV	62	100	10YR 5/4	Sand	Intact C
F3.07	I	0	13	10YR 4/2	Sandy Loam	Ao
F3.07	II	13	22	10YR 4/3	Sand	B1
F3.07	III	22	56	10YR 4/6	Sand	B2
F3.07	IV	56	85	10YR 5/4	Sand	B2
F3.07	V	85	100	10YR 5/4	Sand	C
F3.08	I	0	18	10YR 5/3	Sandy Loam	Intact O/A/E mix
F3.08	II	18	37	10YR 4/6	Sandy Loam	Intact B horizon
F3.08	III	37	93	10YR 4/6	Sand	C1 horizon
F3.08	IV	93	100	7.5YR 4/6	Sand	70% gravel, C2 horizon
F3.09	I	0	10	10YR 4/2	Sandy Loam	Ao/developing A
F3.09	II	10	20	10YR 6/2	Sand	Ae
F3.09	III	20	36	10YR 4/6	Sandy Loam	B1
F3.09	IV	36	86	10YR 5/6	Loamy Sand	B2
F3.09	V	86	100	7.5YR 4/6	Sand	Subsoil
F3.10	I	0	13	10YR 2/1	Sandy Loam	Intact AO
F3.10	II	13	20	10YR 4/2	Loamy Sand	Intact Ae
F3.10	III	20	40	10YR 4/6	Loamy Sand	Intact Bw; medium sand; no rocks with exception of 2 quartz debitage
F3.10	IV	40	61	10YR 4/6	Loamy Sand	Intact C; no rocks; coarse sand
F3.10	V	61	100	10YR 5/4	Sand	Intact C; coarse sand with 2% small pebbles
F3.11	I	0	13	10YR 4/1	Sandy Loam	O/A horizon
F3.11	II	13	27	10YR 7/1	Sandy Loam	E horizon

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
F3.11	III	27	38	5YR 4/3	Sandy Loam	B1 horizon
F3.11	IV	38	45	7.5YR 5/6	Sandy Loam	B2 horizon
F3.11	V	45	100	10YR 6/3	Sand	C horizon , water table at 100 cmbgs also
F3.12	I	0	18	10YR 4/2	Sandy Loam	Ao
F3.12	II	18	32	10YR 4/3	Sand	B1
F3.12	III	32	51	10YR 5/4	Sand	B2
F3.12	IV	51	100	7.5YR 4/6	Sand	C
F3.13	I	0	15	10YR 3/1	Sandy Loam	O/A horizon
F3.13	II	15	27	10YR 7/1	Sandy Loam	E horizon
F3.13	III	27	40	5YR 4/3	Sandy Loam	B1 horizon
F3.13	IV	40	56	7.5YR 5/6	Sandy Loam	B2 horizon
F3.13	V	56	66	7.5YR 4/6	Sandy Loam	75% gravel, C horizon
F3.14	I	0	14	10YR 2/2	Sandy Loam	Intact AO
F3.14	II	14	30	10YR 5/2	Sand	Intact E; well developed; coarse sand
F3.14	III	30	52	10YR 4/6	Sand	Intact C; coarse sand; gravel impasse
F3.15	I	0	25	10YR 4/2	Sandy Loam	Ao/hydric A
F3.15	II	25	38	10YR 6/2	Sand	Inundated Ae
F4.01	I	0	12	10YR 2/2	Sandy Loam	Thick O horizon
F4.02	I	0	14	10YR 3/1	Sandy Loam	O/A horizon
F4.02	II	14	25	10YR 7/1	Sandy Loam	E horizon
F4.02	III	25	40	10YR 5/4	Sandy Loam	B horizon
F4.02	IV	40	58	10YR 4/4	Sand	25% gravel, C horizon, water table at 58 cmbgs
F4.03	I	0	10	10YR 4/2	Sandy Loam	Ao/ developing A
F4.03	II	10	23	10YR 6/2	Sand	Ae
F4.03	III	23	40	10YR 4/6	Sandy Loam	B1
F4.03	IV	40	55	10YR 5/6	Loamy Sand	B2
F4.03	V	55	82	7.5YR 4/6	Sand	Sterile subsoil
F4.04	I	0	16	10YR 4/2	Sandy Loam	Ao

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
F4.04	II	16	24	10YR 4/3	Sand	B1
F4.04	III	24	34	10YR 4/6	Sand	B2
F4.04	IV	34	88	10YR 5/4	Sand	B3
F4.04	V	88	100	10YR 5/4	Sand	C
F4.05	I	0	16	10YR 5/3	Sandy Loam	O/A horizon
F4.05	II	16	28	10YR 7/1	Sandy Loam	E horizon
F4.05	III	28	40	5YR 4/3	Sandy Loam	B1 horizon, 1 lithic
F4.05	IV	40	55	10YR 4/6	Sandy Loam	B2 horizon
F4.05	V	55	90	10YR 6/3	Sandy Loam	C1 horizon
F4.06	I	0	22	10YR 2/1	Sandy Loam	Intact AO
F4.06	II	22	38	10YR 5/2	Loamy Sand	Intact E
F4.06	III	38	62	10YR 4/6	Loamy Sand	Intact Bw
F4.06	IV	62	100	10YR 5/4	Sand	Intact C
F4.07	I	0	15	10YR 3/2	Sandy Loam	Ao/developing A
F4.07	II	15	33	10YR 4/6	Sandy Loam	B1
F4.07	III	33	114	10YR 5/6	Sandy Loam	B2
F4.07	IV	114	125	7.5YR 4/6	Sand	Coarse sand with dense gravels and cobbles, sterile subsoil
F4.07	V	125		NONE/NONE		None
F4.08	I	0	22	10YR 3/2	Sandy Loam	O/A horizon
F4.08	II	22	38	10YR 4/6	Sandy Loam	B horizon
F4.08	III	38	84	10YR 6/4	Sand	C1 horizon
F4.08	IV	84	100	7.5YR 4/6	Sand	C2 horizon
F4.09	I	0	18	10YR 5/3	Sandy Loam	O/A/E horizon mix
F4.09	II	18	36	10YR 4/6	Sandy Loam	Intact B horizon
F4.09	III	36	91	10YR 6/4	Sand	Intact C1 horizon
F4.09	IV	91	100	7.5YR 4/6	Sand	C2 horizon
F4.10	I	0	11	10YR 3/2	Sandy Loam	Ao
F4.10	II	11	23	10YR 5/1	Sand	Ae

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
F4.10	III	23	48	10YR 4/6	Sand	B1- heavy bioturbation from roots, very clean sand no cobbles, 18 quartz chipping debris
F4.10	IV	48	90	10YR 5/6	Sand	B2- very clean sand no cobbles, 15 quartz cd
F4.10	V	90	131	7.5YR 4/6	Sand	C- water at bottom of augur test, no cobbles
F4.11	I	0	14	10YR 3/2	Sandy Loam	O/A horizon
F4.11	II	14	18	10YR 7/1	Sandy Loam	E horizon
F4.11	III	18	34	5YR 4/3	Sandy Loam	B1 horizon
F4.11	IV	34	45	10YR 4/6	Sandy Loam	B2 horizon
F4.11	V	45	87	10YR 6/4	Sand	C1 horizon
F4.12	I	0	12	10YR 2/2	Sandy Loam	Intact AO
F4.12	II	12	42	10YR 5/6	Loamy Sand	Intact Bw
F4.12	III	42	77	10YR 5/4	Sand	Intact C; coarse sand
F4.12	IV	77	100	10YR 5/4	Sand	Intact C; coarse sand; hit water table
F4.13	I	0	22	10YR 3/2	Sandy Loam	O/A horizon
F4.13	II	22	36	10YR 4/6	Sandy Loam	B horizon
F4.13	III	36	80	10YR 6/4	Sand	C1 horizon
F4.13	IV	80	90	10YR 6/3	Sand	C2 horizon
F4.13	V	90	100	10YR 6/3	Sand	75% gravel, C2 horizon
F4.14	I	0	21	10YR 3/3	Sandy Loam	O/A horizon
F4.14	II	21	45	10YR 4/4	Sandy Loam	B horizon
F4.14	III	45	75	10YR 6/4	Sand	C1 horizon
F4.14	IV	75	100	7.5YR 4/6	Sand	80% gravels, C2 horizon
F4.15	I	0	17	10YR 3/2	Sandy Loam	Ao/ developing A
F4.15	II	17	30	10YR 4/6	Sandy Loam	B1
F4.15	III	30	85	10YR 5/6	Loamy Sand	B2
F4.15	IV	85	100	7.5YR 4/6	Sand	Coarse sand with cobbles, sterile subsoil
F5.01	I	0	18	10YR 3/2	Sandy Loam	Ao
F5.01	II	18	42	10YR 4/3	Sand	B1
F5.01	III	42	90	10YR 4/6	Sand	B2

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
F5.01	IV	90	100	7.5YR 4/6	Sand	C
F5.02	I	0	17	10YR 3/1	Sandy Loam	O/A horizon
F5.02	II	17	35	10YR 4/4	Sandy Loam	B horizon
F5.02	III	35	66	10YR 6/4	Sand	C1 horizon
F5.02	IV	66	90	7.5YR 4/6	Sand	80% gravels, C2 horizon, base of excavation is at water table
F5.03	I	0	16	10YR 2/2	Sandy Loam	Intact AO
F5.03	II	16	25	10YR 4/4	Sandy Loam	Intact A
F5.03	III	25	50	10YR 5/6	Loamy Sand	Intact Bw; medium sand
F5.03	IV	50	70	10YR 5/4	Sand	Intact C; coarse sand with gravels
F5.03	V	70	82	10YR 5/4	Sand	Intact C; coarse sand dense with gravels leading to impasse; 7.5YR 4/6 oxidation; wet
F5.04	I	0	13	10YR 3/2	Sandy Loam	O/A horizon
F5.04	II	13	19	7.5YR 4/3	Sandy Loam	B1 horizon
F5.04	III	19	54	10YR 6/4	Sand	C1 horizon
F5.04	IV	54	95	7.5YR 4/6	Sand	C2 horizon
F5.05	I	0	11	10YR 3/2	Sandy Loam	Ao/Dev A
F5.05	II	11	17	10YR 6/2	Sand	Aerial
F5.05	III	17	32	10YR 4/6	Sandy Loam	B1
F5.05	IV	32	83	10YR 5/6	Loamy Sand	B2
F5.05	V	83	110	7.5YR 4/6	Sand	Subsoil, coarse sand with dense cobbles and gravel
F5.06	I	0	16	10YR 3/2	Sandy Loam	O/A horizon
F5.06	II	16	27	10YR 7/1	Sandy Loam	E horizon
F5.06	III	27	36	5YR 4/3	Sand	B1 horizon
F5.06	IV	36	44	7.5YR 4/6	Sandy Loam	B2 horizon
F5.06	V	44	88	10YR 6/4	Sand	C1 horizon
F5.07	I	0	8	10YR 2/2	Sandy Loam	Intact AO
F5.07	II	8	17	10YR 4/4	Loamy Sand	Intact Ae; lens of 10YR 5/2 at top

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
F5.07	III	17	50	10YR 5/6	Loamy Sand	Intact Bw; apparent bipolar reduction core found at top of stratum; apparent flake found at bottom of stratum; no gravels at top of stratum but gradually increase to 2% by bottom of stratum
F5.07	IV	50	95	10YR 5/4	Sand	Intact C; coarse sand
F5.07	V	95	100	10YR 5/4	Sand	Intact C; coarse sand; wet; 7.5YR 4/6 oxidation
F5.08	I	0	14	10YR 4/2	Sandy Loam	Ao
F5.08	II	14	22	10YR 5/1	Sand	Ae
F5.08	III	22	48	10YR 4/6	Sand	B1
F5.08	IV	48	84	10YR 5/6	Sand	B2
F5.08	V	84	115	7.5YR 4/6	Sand	C
F5.09	I	0	23	10YR 3/2	Sandy Loam	O/A horizon
F5.09	II	23	43	10YR 5/4	Sandy Loam	B horizon
F5.09	III	43	80	10YR 6/4	Sand	C1 horizon
F5.09	IV	80	100	10YR 4/6	Sand	C2 horizon
F6.01	I	0	15	10YR 3/2	Sandy Loam	Ao/ Dev A
F6.01	II	15	35	10YR 4/3	Sandy Loam	Mixed with 10YR 4/2 and 10YR 4/6 with trash-redeposited soils next to parking lot
F6.01	III	35	82	10YR 4/6	Sandy Loam	B1
F6.01	IV	82	110	10YR 5/6	Loamy Sand	B2
F6.01	V	110	120	7.5YR 4/6	Clay Loam	Coarse sand subsoil with dense rocks and gravel
F7.01	I	0	16	10YR 3/2	Sandy Loam	Ao
F7.01	II	16	23	10YR 4/1	Sand	Ae
F7.01	III	23	54	10YR 4/6	Sand	B1
F7.01	IV	54	96	10YR 5/6	Sand	B2
F7.01	V	96	136	7.5YR 4/6	Sand	C
F7.02	I	0	15	10YR 3/2	Sandy Loam	O/A horizon
F7.02	II	15	24	10YR 5/3	Sandy Loam	E? Horizon

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
F7.02	III	24	38	10YR 4/6	Sandy Loam	B horizon
F7.02	IV	38	100	10YR 6/3	Sand	C1 horizon
F7.03	I	0	13	10YR 2/2	Sandy Loam	Disturbed AO; plastic and auto glass discarded
F7.03	II	13	30	10YR 4/4	Loamy Sand	Disturbed A; mottled with former E horizon (10YR 5/2) and Stratum III
F7.03	III	30	55	10YR 5/6	Loamy Sand	Intact Bw; medium sand
F7.03	IV	55	100	10YR 5/4	Sand	Intact C; coarse sand
F7.04	I	0	14	10YR 3/2	Sandy Loam	O/A/E mix horizon
F7.04	II	14	25	10YR 5/3	Sandy Loam	B? horizon
F7.04	III	25	81	10YR 6/3	Sand	C1 horizon
F7.04	IV	81	100	7.5YR 4/6	Sand	75% gravels, C2 horizon
F7.05	I	0	10	10YR 3/2	Sandy Loam	Ao/ developing A
F7.05	II	10	22	10YR 6/2	Sand	Ae
F7.05	III	22	32	10YR 4/4	Loamy Sand	B1
F7.05	IV	32	80	10YR 5/6	Sand	B2, 1 quartz debitage from ~40cmb
F7.05	V	80	100	7.5YR 4/6	Sand	Sterile subsoil, coarse sand with cobbles and gravel
F7.06	I	0	10	10YR 3/2	Sandy Loam	Mixed with 10YR 7/1 O/A/E mix
F7.06	II	10	27	10YR 5/4	Sandy Loam	B1 horizon, 1 broken cobble/FCR?
F7.06	III	27	45	10YR 5/6	Sandy Loam	B2 horizon
F7.06	IV	45	80	10YR 6/3	Sand	C1 horizon
F7.06	V	80	90	7.5YR 4/6	Sand	C2 horizon, 75% gravels
F7.07	I	0	10	10YR 2/2	Sandy Loam	Intact AO
F7.07	II	10	22	10YR 5/2	Loamy Sand	Intact E
F7.07	III	22	48	10YR 4/6	Loamy Sand	Intact Bw; medium sand
F7.07	IV	48	91	10YR 5/6	Sand	Intact C; coarse sand
F7.07	V	91	100	10YR 6/4	Sand	Intact C; coarse sand
F7.08	I	0	12	10YR 3/2	Sandy Loam	Ao
F7.08	II	12	24	10YR 5/2	Sand	Ae

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
F7.08	III	24	62	10YR 4/6	Sand	B1
F7.08	IV	62	92	10YR 5/6	Sand	B2
F7.08	V	92	100	7.5YR 4/6	Sand	C
F7.09	I	0	15	10YR 3/2	Sandy Loam	O/A horizon
F7.09	II	15	24	10YR 7/1	Sandy Loam	E horizon
F7.09	III	24	38	5YR 4/3	Sandy Loam	B1 horizon
F7.09	IV	38	46	10YR 4/6	Sandy Loam	B2 horizon
F7.09	V	46	82	10YR 6/4	Sand	C1 horizon
F7.10	I	0	20	10YR 5/1	Sand	O/A horizon
F7.10	II	20	35	10YR 7/1	Sand	E horizon
F7.10	III	35	50	5YR 4/3	Sand	B horizon
F7.10	IV	50	80	10YR 5/4	Sand	75% gravels, C horizon
F7.11	I	0	20	10YR 3/2	Sandy Loam	Ao/Wet A
F7.11	II	20	34	10YR 5/1	Sand	Ae
F7.11	III	34	46	10YR 4/6	Loamy Sand	Hydric B with oxi and inundation at 46cmbgs
F7.12	I	0	30	10YR 2/2	Sandy Loam	Intact OA; wetland muck; hit water table
F7.13	I	0	36	10YR 3/1	Sandy Loam	Ao
F8.01	I	0	22	10YR 2/2	Sandy Loam	Intact OA; wetland muck; hit water table
F8.02	I	0	20	10YR 2/1	Sandy Loam	O/A horizon, mostly root mat, water table at 20cmbgs
F8.03	I	0	35	10YR 2/1	Sandy Loam	O/A horizon, mostly root cap, water table at 36cmbgs
F8.04	I	0	28	10YR 3/2	Sandy Loam	Ao
F8.04	II	28	41	10YR 4/4	Sand	B1
F8.04	III	41	57	10YR 5/4	Sand	B2
F8.05	I	0	14	10YR 2/1	Sandy Loam	Intact AO
F8.05	II	14	29	10YR 4/1	Loamy Sand	Intact E
F8.05	III	29	37	7.5YR 4/3	Loamy Sand	Intact Bw
F8.05	IV	37	50	10YR 4/6	Loamy Sand	Intact Bw

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
F8.05	V	50	69	10YR 5/6	Sand	Intact C; coarse sand dense with gravels leading to impasse
F8.06	I	0	12	10YR 3/2	Sandy Loam	O/A horizon
F8.06	II	12	18	10YR 7/1	Sandy Loam	E horizon
F8.06	III	18	28	5YR 4/3	Sandy Loam	B1 horizon , 5 possible lithics
F8.06	IV	28	46	10YR 4/6	Sandy Loam	B2 horizon
F8.06	V	46	100	10YR 6/4	Sand	C horizon
F8.07	I	0	18	10YR 3/2	Sandy Loam	Ao/A
F8.07	II	18	37	10YR 6/2	Sand	Ae
F8.07	III	37	68	10YR 4/6	Sandy Loam	B1
F8.07	IV	68	98	10YR 5/6	Loamy Sand	B2
F8.07	V	98	110	7.5YR 4/6	Sand	Coarse sand with cobbles and gravel, sterile subsoil
F8.08	I	0	17	10YR 3/2	Sandy Loam	O/A horizon
F8.08	II	17	26	10YR 5/2	Sandy Loam	E horizon
F8.08	III	26	35	5YR 4/3	Sandy Loam	B1 horizon, 5cm at it's thickesy but only 1-2 cm in other parts, 1 lithic?
F8.08	IV	35	56	10YR 4/6	Sandy Loam	B2 horizon
F8.08	V	56	100	10YR 6/4	Sand	C horizon
F8.09	I	0	9	10YR 3/2	Sandy Loam	Intact AO
F8.09	II	9	16	10YR 4/1	Loamy Sand	Intact E
F8.09	III	16	25	10YR 4/4	Loamy Sand	Intact Bw
F8.09	IV	25	43	10YR 4/6	Loamy Sand	Intact Bw; medium sand
F8.09	V	43	76	10YR 5/6	Sand	Intact C; coarse sand dense with gravels leading to impasse
F8.10	I	0	13	10YR 3/2	Sandy Loam	Ao
F8.10	II	13	29	10YR 5/2	Sand	Ae
F8.10	III	29	57	10YR 4/6	Sand	B1
F8.10	IV	57	88	10YR 5/6	Sand	B2
F8.10	V	88	100	7.5YR 4/6	Sand	C

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
F8.11	I	0	10	10YR 3/2	Sandy Loam	O/A/E mix
F8.11	II	10	24	5YR 4/3	Sandy Loam	Mixed with 10YR 7/1 E/B Mix
F8.11	III	24	42	10YR 4/6	Sandy Loam	B horizon
F8.11	IV	42	100	10YR 6/4	Sand	C horizon
F8.12	I	0	16	10YR 3/2	Sandy Loam	O/A horizon
F8.12	II	16	25	10YR 5/4	Sandy Loam	B1 horizon
F8.12	III	25	46	10YR 4/6	Sandy Loam	B2 horizon
F8.12	IV	46	85	10YR 6/4	Sand	C1 horizon
F8.12	V	85	100	7.5YR 4/6	Sand	C2 horizon
F8.13	I	0	10	10YR 3/2	Sandy Loam	Ao/ Developing A
F8.13	II	10	24	10YR 6/1	Sand	Ae
F8.13	III	24	76	10YR 4/6	Loamy Sand	B1
F8.13	IV	76	110	10YR 5/6	Sand	B2
F8.13	V	110	130	7.5YR 4/6	Sand	Coarse sand with gravel and cobbles, sterile subsoil
F8.14	I	0	12	10YR 3/2	Sandy Loam	Intact AO
F8.14	II	12	17	10YR 5/2	Loamy Sand	Intact E
F8.14	III	17	44	10YR 4/6	Loamy Sand	Intact Bw
F8.14	IV	44	70	10YR 5/6	Loamy Sand	Intact C; coarse sand
F8.14	V	70	100	7.5YR 4/6	Sand	Intact C; coarse sand
F9.01	I	0	22	10YR 3/2	Sandy Loam	Ao
F9.01	II	22	34	10YR 4/6	Sand	B1
F9.01	III	34	40	10YR 5/4	Sand	B2
F9.02	I	0	18	10YR 3/1	Sandy Loam	O/A horizon
F9.02	II	18	25	10YR 6/1	Sandy Loam	E horizon
F9.02	III	25	40	10YR 4/6	Sand	B horizon
F9.02	IV	40	55	10YR 6/3	Sand	C1 horizon
F9.02	V	55	80	10YR 5/1	Sand	C2 horizon, water table and gravels also at 80 cmbgs
FB01.05	I	0	12	10YR 4/1	Sandy Loam	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
FB01.05	II	12	14	10YR 5/4	Loamy Sand	Heavily concreted and compact soil
FP01.01	I	0	21	10YR 4/2	Sandy Loam	None
FP01.01	II	21	32	10YR 4/4	Sandy Loam	Very compact
FP01.02	I	0	30	10YR 4/2	Sandy Loam	Fill asphalt and modern trash present not collected
FP01.03	I	0	25	10YR 4/2	Sandy Loam	Very rocky and very compact. Ended for compaction impasse.
FP01.04	I	0	18	10YR 3/3	Sandy Loam	Landscape A
FP01.04	II	18	38	10YR 4/4	Loamy Sand	Fill asphalt and modern trash present not collected
FP01.06	I	0	20	10YR 4/2	Sandy Loam	Subangular, rounded and subrounded rocks present, excavation impasse for significant compaction
FP01.07	I	0	15	10YR 4/2	Sandy Loam	Fill with glass and asphalt chunks
FP01.07	II	15	35	10YR 5/2	Loamy Sand	Fill with asphalt, plastic, and glass
G1.02	I	0	18	10YR 4/1	Sandy Loam	20% gravel, modern plastic and glass- discarded, Fill 1
G1.02	II	18	40	10YR 6/6	Sandy Loam	40% gravels, Fill 2
G1.02	III	40	48	10YR 3/2	Sandy Loam	Modern A horizon, broken blacktop throughout
G1.02	IV	48	80	10YR 6/4	Sand	C1 horizon
G1.02	V	80	100	10YR 4/6	Sand	C2 horizon
G1.03	I	0	23	10YR 4/2	Sandy Loam	Disturbed overburden/land A
G1.03	II	23	48	10YR 4/6	Sandy Loam	Redeposited Overburden mixed with 10YR 6/46554555556666
G1.03	III	48	63	10YR 4/2	Sandy Loam	Buried A
G1.03	IV	63	100	10YR 4/6	Loamy Sand	Cobbles present, B1 horizon
G1.04	I	0	22	10YR 4/2	Sandy Loam	Fill1 , 20% gravels, modern glass and plastic was discarded
G1.04	II	22	62	10YR 6/6	Sandy Loam	With alternating bands of 10YR 3/1, Fill 2
G1.04	III	62	72	10YR 2/2	Sandy Loam	Modern A horizon

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
G1.04	IV	72	100	10YR 6/4	Sand	C horizon
G1.06	I	0	26	10YR 4/2	Sandy Loam	30% gravels, modern glass and plastic- discarded, Fill 1
G1.06	II	26	60	10YR 3/4	Sandy Loam	Mixed with 10YR 4/6, 20% gravels and large chunks of blacktop, Fill 2
G1.06	III	60	80	10YR 6/6	Sandy Loam	With alternating bands of 10YR 3/1, Fill 3
G1.06	IV	80	90	10YR 3/2	Sandy Loam	A horizon
G1.06	V	90	110	10YR 6/4	Sand	C horizon
G1.07	I	0	19	10YR 3/4	Sandy Loam	Redeposited A; plastic discarded
G1.07	II	19	38	10YR 4/4	Loamy Sand	Fill; redposited Bw mottled with 10YR 5/6 LoSa; 6 cm lens of 10YR 2/1 LoSa at base; glass and asphalt discarded
G1.07	III	38	69	10YR 4/4	Loamy Sand	Fill; redposited Bw mottled with 10YR 3/4 SaLo; 5 cm lens of 10YR 2/1 LoSa at base; glass and asphalt discarded
G1.07	IV	69	100	10YR 5/3	Sand	Intact C
G1.08	I	0	18	10YR 4/2	Sandy Loam	20% gravels, modern glass and plastic-discarded, Fill 1
G1.08	II	18	24	7.5YR 4/6	Sand	20% gravels, Fill 2
G1.08	III	24	52	10YR 6/6	Sandy Loam	With alternating bands of 10YR 3/1, Fill 3
G1.08	IV	52	64	10YR 3/2	Sandy Loam	A horizon
G1.08	V	64	100	10YR 6/4	Sand	C horizon
G2.01	I	0	16	10YR 3/2	Sandy Loam	Overburden with much trash
G2.01	II	16	47	10YR 5/2	Loamy Sand	Redeposired soils with plastic and aluminum trash
G2.01	III	47	56	10YR 4/2	Sandy Loam	Possible buried A
G2.01	IV	56	100	10YR 5/6	Loamy Sand	B1 with rounded cobbles present
G2.02	I	0	26	10YR 4/1	Sandy Loam	A horizon
G2.02	II	26	45	10YR 6/4	Sandy Loam	B horizon
G2.02	III	45	90	10YR 5/6	Sandy Loam	B horizon
G2.02	IV	90	100	10YR 4/4	Sand	25% gravels, C horizon

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
G2.05	I	0	20	10YR 3/2	Sandy Loam	30% gravels, A horizon
G2.05	II	20	50	10YR 5/6	Sandy Loam	AB horizon
G2.05	III	50	100	10YR 5/4	Sand	C1 horizon, with a gravel cap on top
G2.05	IV	100	115	10YR 6/2	Sand	Coarse sand, C2 horizon
G2.06	I	0	12	10YR 3/2	Sandy Loam	20% gravels, Fill 1
G2.06	II	12	60	10YR 6/4	Sandy Loam	With alternating bands of 10YR 3/2 and 10YR 2/1, Fill 2
G2.06	III	60	115	10YR 6/3	Sandy Loam	Coarse sand, C horizon
G2.07	I	0	14	10YR 4/2	Sandy Loam	Overburden with modern plastic trash
G2.07	II	14	31	10YR 5/6	Loamy Sand	Extremely compact possible road fill with modern aluminum trash. Compaction impasse at 31cmbs
G2.08	I	0	50	10YR 4/2	Sandy Loam	Road overburden redeposited with 10YR 4/6
G2.08	II	50	76	10YR 5/6	Loamy Sand	B1
G2.08	III	76	100	10YR 6/4	Sand	B2
G2.09	I	0	12	10YR 3/2	Sandy Loam	30z gravels, Fill 1
G2.09	II	12	32	10YR 5/4	Sandy Loam	Fill 2
G2.09	III	32	40	10YR 3/1	Sandy Loam	Intact A horizon, very compact
G2.09	IV	40	70	10YR 4/6	Sandy Loam	B horizon
G2.09	V	70	100	10YR 6/3	Sand	Coarse sand , 25% gravels, C horizon
G2.11	I	0	33	10YR 4/2	Sandy Loam	Road overburden with plastic and glass trash
G2.11	II	33	76	10YR 5/6	Loamy Sand	B1
G2.11	III	76	100	10YR 6/4	Sand	Medium to coarse sand with gravel and rounded cobbles
H01.01	I	0	23	10YR 4/4	Loamy Sand	Overburden
H01.01	II	23	55	10YR 3/3	Sand	Fill
H01.01	III	55	65	10YR 5/4	Sand	Brick noted not collected
H01.02	I	0	18	10YR 3/3	Sandy Loam	Landscaped A clean fill dense with roots
H01.02	II	18	45	10YR 5/6	Sandy Loam	Mixed soils. Mixed with 10YR5/3 sandlo.

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
H01.02	III	45	73	10YR 7/2	Sand	Mixed with 10 YR2/2 sand lo with decay wood. Metal shotgun shell from 70 cmbs photo but not collected. Inundated with water at 70 cm
H01.03	I	0	20	10YR 4/4	Loamy Sand	OB/fill
H01.03	II	20	54	10YR 6/3	Sand	Fill
H01.03	III	54	67	10YR 2/2	Sand	Buried hydric soil with water at 67cmbs
H01.04	I	0	40	10YR 4/4	Loamy Sand	Overburden plastic not collected
H01.04	II	40	72	10YR 3/3	Sand	Fill
H01.04	III	72	100	10YR 5/4	Sand	Wetland?
H01.05	I	0	30	10YR 4/3	Loamy Sand	Mixed with 10YR 4/6
H01.05	I	0	32	10YR 4/3	Loamy Sand	Mixed with 10YR 4/6
H01.05	II	30	60	10YR 5/6	Sand	B soil
H01.05	II	32	58	10YR 5/6	Sand	B soil
H01.05	III	60	100	10YR 6/2	Sand	None
H01.05	III	58	100	10YR 6/2	Sand	None
H01.06	I	0	43	10YR 4/2	Loamy Sand	Coarse sand, root disturbances, large concrete chunks 40-43 cm, wet, fill material
H01.06	II	43	93	10YR 5/2	Loamy Sand	Coarse sand, saturated, inundated at 90cm
H01.07	I	0	28	10YR 2/2	Sand	Fill
H01.07	II	28	48	10YR 3/2	Sand	Fill
H01.07	III	48	56	2.5Y 5/4	Sand	Fill
H01.07	IV	56	76	10YR 2/2	Sand	Buried wetland?
H01.08	I	0	12	10YR 2/2	Silt Loam	Hydric soil with water at 12cmbs
H02.01	I	0	20	10YR 4/2	Sand	Fill
H02.01	II	20	80	10YR 4/6	Sand	Fill mixed with 10 Y/R 6/2
H02.02	I	0	28	10YR 2/2	Sandy Loam	Landscaped A clean fill with pebbles
H02.02	II	28	37	10YR 2/2	Loamy Sand	Fill soils.
H02.02	III	37	50	10YR 7/2	Sand	Fill soils. Styrofoam noted but not collected from strat III

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
H02.02	IV	50	60	7.5YR 5/4	Sand	Water. Bw horizon. Water filling excavation
H02.03	I	0	35	10YR 4/2	Loamy Sand	OB mixed with 10YR 4/6
H02.03	II	35	54	2.5Y 5/4	Loamy Sand	Fill
H02.03	III	54	80	10YR 2/2	Sand	Hydric soil with water at 80cmbs
H02.04	I	0	24	10YR 3/3	Loamy Sand	Sand fill
H02.04	II	24	31	10YR 6/3	Loamy Sand	Sand fill
H02.04	III	31	54	10YR 3/2	Loamy Sand	Mixed fill, with 10 YR 5/4
H02.04	IV	54	66	10YR 2/2	Sandy Loam	Natural wetland A horizon
H02.04	V	66	91	7.5YR 5/3	Loamy Sand	Coarse sand, increased gravel
H02.05	I	0	26	10YR 2/2	Sand	Overburden
H02.05	II	26	74	10YR 2/2	Sand	Fill mixed with 2.5 Y 2/2
H02.05	III	74	85	10YR 2/2	Sand	Buried A
H02.05	IV	85	100	2.5Y 2.5/2	Sand	Water present
H03.01	I	0	20	10YR 4/2	Loamy Sand	Ap
H03.01	II	20	56	10YR 4/6	Loamy Sand	B
H03.01	III	56	76	10YR 5/6	Loamy Sand	B
H03.01	IV	76	100	10YR 6/2	Loamy Sand	Subsoil
H03.02	I	0	22	10YR 4/2	Loamy Sand	Pine veg
H03.02	II	22	45	10YR 4/6	Loamy Sand	Bw
H03.02	III	45	87	10YR 5/4	Loamy Sand	Bw2
H03.02	IV	87	105	10YR 6/3	Sand	Limit of hand ex
H03.03	I	0	24	10YR 4/3	Sand	Overburden
H03.03	II	24	111	10YR 4/6	Sand	B
H03.04	I	0	27	10YR 4/3	Loamy Sand	None
H03.04	II	27	38	10YR 4/2	Loamy Sand	None
H03.04	III	38	64	10YR 5/4	Loamy Sand	None
H03.04	IV	64	88	7.5YR 5/4	Loamy Sand	None
H03.04	V	88	100	10YR 5/6	Sand	Coarse sand with pebbles
H03.05	I	0	28	10YR 4/3	Loamy Sand	Ap

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
H03.05	II	28	63	10YR 5/6	Loamy Sand	B
H03.05	III	63	100	10YR 6/2	Loamy Sand	B
H03.06	I	0	28	10YR 3/2	Loamy Sand	Mixed with 10YR 2/2 mod compact,
H03.06	II	28	48	10YR 5/4	Loamy Sand	Fill or redeposit, mod compact
H03.06	III	48	67	10YR 4/2	Loamy Sand	Buried A horizon
H03.06	IV	67	86	10YR 5/4	Loamy Sand	Bw
H03.06	V	86	100	10YR 5/6	Sand	C horizon
H03.07	I	0	24	10YR 4/2	Loamy Sand	None
H03.07	II	24	49	10YR 4/6	Loamy Sand	None
H03.07	III	49	80	10YR 5/4	Loamy Sand	None
H03.07	IV	80	98	10YR 6/4	Sand	None
H03.08	I	0	20	10YR 4/4	Sand	Overburden
H03.08	II	20	76	10YR 4/6	Sand	B
H03.08	III	76	100	10YR 5/4	Sand	Bw
H03.08	IV	100	110	7.5YR 5/4	Sand	C
H03.09	I	0	34	10YR 4/2	Loamy Sand	A horizon, some structure
H03.09	II	34	66	10YR 5/4	Loamy Sand	Bw, loose
H03.09	III	66	101	10YR 5/6	Sand	C horizon, loose sand with > 35% gravel
H03.10	I	0	12	10YR 4/3	Sandy Loam	Landscape A
H03.10	II	12	36	10YR 4/6	Loamy Sand	Asphalt and plastic throughout
H03.10	III	36	50	10YR 6/3	Sandy Loam	Compaction impasse in fill
H03.11	I	0	71	10YR 2/2	Loamy Sand	Asphalt and road debris throughout strat to base of ex. Bud beer glass and plastic throughout. Road buried in east wall at 40 cmbgs. Compact soils. Excavation stop at disturbed compact soil
H04.01	I	0	28	10YR 4/3	Sand	Overburden
H04.01	II	28	100	10YR 4/3	Sand	Fill
H04.02	I	0	19	10YR 2/2	Loamy Sand	Gravel fill with asphalt and modern beer glass and plastic

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
H04.02	II	19	43	10YR 5/2	Loamy Sand	Asphalt debris fill
H04.02	III	43	60	10YR 4/2	Loamy Sand	Bur A probable
H04.02	IV	60	78	10YR 5/4	Loamy Sand	Bw probably
H04.02	V	78	105	7.5YR 4/4	Loamy Sand	Bw. Limit of hand ex
H04.03	I	0	14	10YR 4/3	Sandy Loam	OB
H04.03	II	14	60	10YR 4/6	Sandy Loam	Fill with asphalt
H04.03	III	60	80	10YR 6/2	Loamy Sand	Mixed with 10YR 4/6 with asphalt impasse
H04.04	I	0	4	10YR 5/2	Loamy Sand	Mixed with 10YR 5/4 and 5/6. Plastic trash and asphalt.
H04.04	II	4	70	10YR 5/4	Loamy Sand	30% asphalt pieces, shovel refused by asphalt @ 70 cmbgs
H04.05	I	0	76	10YR 4/2	Loamy Sand	Fill mixed with 10YR 5/4, asphalt and modern trash throughout
H04.05	II	76	88	10YR 4/2	Loamy Sand	Likely buried A, leached out
H04.05	III	88	100	10YR 4/4	Loamy Sand	Likely Bw, sterile. Stopped at maximum hand digging depth
H04.06	I	0	47	10YR 5/4	Sand	Road fill— asphalt present not collected
H04.07	I	0	46	10YR 4/4	Sand	Fill asphalt present
H04.07	II	46	106	10YR 4/6	Sand	Buried B
H05.01	I	0	43	10YR 4/2	Loamy Sand	Loose sand fill with trash including plastic and modern glass beer and asphalt road debris. Hydrant 1 meter to west of stp
H05.01	II	43	78	10YR 4/4	Loamy Sand	B
H05.01	III	78	105	10YR 6/4	Loamy Sand	Pebbles increasing. Limit of hand ex
H05.02	I	0	63	10YR 4/3	Sand	Fill asphalt present not collected
H05.03	I	0	57	10YR 4/3	Loamy Sand	Fill mixed with 10YR 4/2, asphalt and trash present throughout
H05.03	II	57	80	10YR 5/6	Loamy Sand	Fill with asphalt throughout. STP ~1m from a berm. Compaction impasse at 80cmbgs
H05.04	I	0	14	10YR 3/3	Sandy Loam	None
H05.04	II	14	50	10YR 4/4	Sand	Rounded and subrounded rocks present

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
H05.04	III	50	100	10YR 5/6	Sand	Rounded and subrounded rocks present
H05.05	I	0	11	10YR 4/3	Sandy Loam	Landscape A
H05.05	II	11	50	10YR 5/2	Sand	Fill with asphalt
H05.05	III	50	83	10YR 3/2	Sandy Loam	Fill with asphalt and glass
H05.05	IV	83	100	10YR 4/4	Loamy Sand	Fill with asphalt
H05.06	I	0	15	10YR 3/3	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
H05.06	II	15	78	10YR 5/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
H05.06	III	78	100	10YR 6/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded) ended for meter deep.
H05.07	I	0	15	10YR 3/3	Sandy Loam	Landscape A
H05.07	II	15	54	10YR 5/4	Sandy Loam	Fill asphalt and modern trash present not collected
H05.07	III	54	79	10YR 3/2	Sandy Loam	Fill asphalt and modern trash present not collected
H05.07	IV	79	100	7.5YR 5/4	Sand	C
H05.08	I	0	20	10YR 3/3	Sandy Loam	Rounded and subrounded rocks present
H05.08	II	20	30	10YR 3/2	Sandy Loam	Rounded and subrounded rocks present
H05.08	III	30	40	10YR 4/4	Sand	Rounded and subrounded rocks present
H05.08	IV	40	60	10YR 5/6	Sand	Rounded and subrounded rocks present, excavation impasse for significant compaction
H05.09	I	0	12	10YR 4/3	Sandy Loam	Landscape A
H05.09	II	12	60	10YR 4/4	Loamy Sand	Compacted fill with glass and asphalt
H05.09	III	60	100	10YR 5/6	Sand	Fill with asphalt
H05.10	I	0	14	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
H05.10	II	14	40	10YR 4/2	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
H05.10	III	40	83	10YR 5/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
H05.10	IV	83	100	10YR 6/3	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for meter deep.
H05.11	I	0	62	10YR 4/3	Sandy Loam	Landscape A
H05.11	II	62	68	10YR 4/6	Sandy Loam	Fill compacted, asphalt and modern trash present not collected
H05.12	I	0	15	10YR 3/3	Sandy Loam	Rounded and subrounded rocks present
H05.12	II	15	40	10YR 4/4	Sand	Rounded and subrounded rocks present
H05.12	III	40	100	10YR 5/6	Sand	Rounded and subrounded rocks present
H05.13	I	0	15	10YR 4/2	Loamy Sand	Overburden
H05.13	II	15	49	10YR 4/3	Loamy Sand	Fill with asphalt and glass
H05.13	III	49	84	10YR 5/6	Sand	B soil
H05.13	IV	84	100	10YR 6/3	Sand	Oxidized coarse sand subsoil
H05.14	I	0	16	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
H05.14	II	16	54	10YR 4/3	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
H05.14	III	54	90	10YR 5/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
H05.14	IV	90	100	10YR 6/3	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for meter deep.
H05.15	I	0	20	10YR 3/3	Sandy Loam	Rounded and subrounded rocks present
H05.15	II	20	55	10YR 4/3	Sand	Rounded and subrounded rocks present
H05.15	III	55	100	10YR 5/4	Sand	Rounded and subrounded rocks present
H05.16	I	0	22	10YR 4/3	Sandy Loam	Overburden
H05.16	II	22	61	10YR 4/4	Sandy Loam	Fill compacted asphalt and modern trash present not collected
H05.17	I	0	13	10YR 5/3	Sandy Loam	Landscape A

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
H05.17	II	13	54	10YR 4/4	Sandy Loam	Fill asphalt and modern trash present not collected
H05.17	III	54	92	10YR 5/4	Sandy Loam	B
H05.17	IV	92	110	7.5YR 5/4	Sand	C
H05.18	I	0	21	10YR 4/3	Sandy Loam	Landscape A
H05.18	II	21	36	10YR 4/4	Sandy Loam	Fill asphalt and modern trash present not collected
H05.18	III	36	89	10YR 5/4	Sandy Loam	B compacted
H05.18	IV	89	100	7.5YR 5/4	Sand	C
H05.19	I	0	14	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
H05.19	II	14	34	10YR 4/3	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for root impasse.
H05.20	I	0	14	10YR 3/3	Sandy Loam	Landscape A
H05.20	II	14	40	10YR 4/4	Sandy Loam	Fill asphalt and modern trash present not collected
H05.20	III	40	63	10YR 5/4	Sandy Loam	Fill very compacted with asphalt and modern trash present not collected
H05.21	I	0	25	10YR 3/3	Sandy Loam	Plowzone
H05.21	II	25	35	10YR 3/4	Sandy Loam	Rounded and subrounded rocks present
H05.21	III	35	45	10YR 5/4	Sand	Rounded and subrounded rocks present
H05.21	IV	45	65	10YR 5/6	Sand	Rounded and subrounded rocks present, excavation impasse for root
H06.01	I	0	35	10YR 3/2	Loamy Sand	Disturbed soil mixed with road debris and modern trash
H06.01	I	0	10	10YR 4/3	Sandy Loam	Landscape A
H06.01	II	35	90	10YR 5/4	Loamy Sand	Compacted. Disturbed redeposited soils with modern trash throughout. Bright green bottle glass and brown bottle glass and clear flat glass throughout strat
H06.01	II	10	53	10YR 4/4	Sandy Loam	Fill with asphalt

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
H06.01	III	90	110	10YR 6/2	Sand	Pebbles increase. Possible natural sub. Limit if hand ex
H06.01	III	53	100	10YR 4/6	Loamy Sand	B soil
H06.02	I	0	14	10YR 3/3	Sand	Fill asphalt present
H06.02	I	0	15	10YR 3/3	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
H06.02	II	14	57	10YR 4/3	Sand	Fill compacted
H06.02	II	15	100	10YR 5/4	Sand	Very rocky (well rounded, rounded, and sub rounded), banded fill miced with 4/3 sa. Emded for meter deep.
H06.03	I	0	30	10YR 4/3	Sandy Loam	Fill with trash and asphalt
H06.03	I	0	34	10YR 3/2	Loamy Sand	Fills bandedfills. 10yr6/2 coarse sands and 10yr4/3 losa. Modern trash throughout
H06.03	I	0	15	10YR 3/3	Sandy Loam	Rounded and subrounded rocks present
H06.03	II	30	100	10YR 4/6	Loamy Sand	Fill mixed with 10YR 4/3 and asphalt throughout
H06.03	II	34	50	7.5YR 4/4	Loamy Sand	Bw
H06.03	II	15	80	10YR 4/4	Sand	Rounded and subrounded rocks present, asphalt chucks throughout strat
H06.03	III	50	63	7.5YR 6/4	Loamy Sand	Bw
H06.03	III	80	100	10YR 5/4	Sand	Rounded and subrounded rocks present
H06.03	IV	63	100	10YR 6/2	Sand	Rounded pebbles throughout appx 20 to 30 percent rock. Loose coarse sand with no structure
H06.04	I	0	13	10YR 4/3	Sandy Loam	Landscape A
H06.04	II	13	42	10YR 4/4	Sandy Loam	Fill asphalt and modern trash present not collected
H06.04	III	42	62	10YR 5/4	Sandy Loam	B
H06.04	IV	62	100	7.5YR 5/4	Sand	C
H06.05	I	0	24	10YR 3/3	Sand	Fill asphalt present
H06.05	I	0	52	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded), asphalt chunks.

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
H06.05	II	24	48	10YR 4/4	Sand	Fill compact
H06.05	II	52	100	10YR 4/6	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), emded for meter deep
H06.05	III	48	100	10YR 5/4	Sand	C
H06.06	I	0	25	10YR 4/2	Loamy Sand	Some modern trash, disturbed/redeposit A
H06.06	I	0	13	10YR 4/3	Sandy Loam	Landscape A
H06.06	I	0	30	10YR 4/3	Sandy Loam	Landscape A
H06.06	II	25	64	7.5YR 4/4	Loamy Sand	Bw, clean
H06.06	II	13	42	10YR 4/4	Sandy Loam	Fill asphalt and modern trash present not collected
H06.06	II	30	46	10YR 4/4	Sandy Loam	Fill asphalt and modern trash present not collected
H06.06	III	64	90	10YR 6/4	Loamy Sand	Coarse loamy sand, pebbles increase, BC
H06.06	III	42	62	10YR 5/4	Sandy Loam	B
H06.06	III	46	55	10YR 4/2	Sandy Loam	Fill asphalt and modern trash present not collected
H06.06	IV	90	100	10YR 6/2	Sand	Loose C horizon
H06.06	IV	62	100	7.5YR 5/4	Sand	C
H06.06	IV	55	65	10YR 5/4	Sandy Loam	Fill compacted with asphalt and modern trash present not collected
H06.07	I	0	24	10YR 4/3	Sandy Loam	Fill with trash and asphalt
H06.07	II	24	46	10YR 4/6	Loamy Sand	Fill mixed with 10YR 4/3 and asphalt
H06.07	III	46	100	10YR 6/2	Sand	Cobbles and pea gravel throughout natural soil
H06.08	I	0	28	10YR 4/2	Sandy Loam	With modern trash
H06.08	II	28	49	7.5YR 4/4	Sandy Loam	Bw
H06.08	III	49	69	10YR 6/4	Loamy Sand	Mineral concretions at interface
H06.08	IV	69	100	10YR 6/2	Sand	Loose sands with no structure. Pebbles appx 20 to 30 percent
H06.09	I	0	12	10YR 3/2	Sandy Loam	Landscape? Organic matter

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
H06.09	II	12	80	10YR 4/4	Sand	B?
H06.09	III	80	100	10YR 7/4	Sand	Coarse C
H06.10	I	0	23	10YR 4/2	Sandy Loam	Humic layer and developing A
H06.10	II	23	82	10YR 5/4	Sandy Loam	Bw
H06.10	III	82	96	7.5YR 5/4	Loamy Sand	Bw
H06.10	IV	96	102	10YR 6/2	Sand	C horzn sand and gravels, loose
H06.11	I	0	20	10YR 4/2	Sandy Loam	Disturbed topsoil
H06.11	II	20	62	10YR 4/6	Loamy Sand	Bw
H06.11	III	62	90	10YR 5/6	Sand	Bw2
H06.11	IV	90	100	10YR 6/1	Sand	Subsoil with gravel and cobbles
H06.12	I	0	32	10YR 4/2	Sandy Loam	O/A with trash, saturated, modern trash
H06.12	II	32	64	10YR 5/4	Sandy Loam	Bw
H06.12	III	64	83	7.5YR 4/4	Sandy Loam	Bw
H06.12	IV	83	100	7.5YR 6/6	Sand	Loose C horizon sand and gravel
H06.13	I	0	42	10YR 4/2	Sand	Fill
H06.14	I	0	20	7.5YR 4/2	Loamy Sand	Disturbed with modern trash. Mix soils with asphalt road debris
H06.14	II	20	40	7.5YR 4/3	Sand	Coarse sand fill with trash and asphalt
H06.14	III	40	90	10YR 5/2	Loamy Sand	Mixed soils with trash and asphalt. Stop ex at asphalt at base
H07.01	I	0	30	10YR 4/2	Sandy Loam	Fill mixed with 10YR 5/6 and trash
H07.01	II	30	100	2.5Y 5/6	Loamy Sand	Plastic trash throughout
H07.02	I	0	32	10YR 4/2	Sandy Loam	O/A horizon
H07.02	II	32	68	10YR 5/6	Loamy Sand	Moderate compact, Bw
H07.02	III	68	101	10YR 6/4	Loamy Sand	Bw, mod compact
H07.02	IV	101	110	7.5YR 5/4	Sand	Loose C horizon sand and gravels
H07.03	I	0	36	10YR 4/3	Sand	Fill plastic present
H07.03	II	36	76	10YR 4/4	Loamy Sand	Fill plastic present
H07.03	III	76	100	10YR 4/6	Sand	Coarse C
H07.04	I	0	31	10YR 4/2	Sandy Loam	A with modern trash

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
H07.04	II	31	66	10YR 5/4	Sandy Loam	Mod compact Bw
H07.04	III	66	88	10YR 6/4	Sandy Loam	Mod compact BW
H07.04	IV	88	101	7.5YR 6/4	Sand	C horizon. Loose sand and round pebbles
H07.05	I	0	24	10YR 4/2	Sandy Loam	Disturbed with trash
H07.05	II	24	52	10YR 5/6	Loamy Sand	Trash in top 15 cm of strat
H07.05	III	52	100	10YR 6/1	Sand	Natural coarse grained subsoil with pea gravel and cobbles
H07.06	I	0	27	10YR 4/2	Loamy Sand	A/O hoizon
H07.06	II	27	60	10YR 5/4	Loamy Sand	Bw, not compact
H07.06	III	60	90	7.5YR 5/4	Sand	Loose sand and 30-0% gravels, C horizon
H07.06	IV	90	102	10YR 6/2	Sand	Loose sand 40% gravels, C horizon
H07.07	I	0	34	10YR 3/3	Sand	Fill plastic present
H07.07	II	34	62	10YR 4/4	Loamy Sand	Fill plastic present
H07.08	I	0	28	10YR 4/2	Loamy Sand	Modern trash throughout
H07.08	II	28	60	10YR 6/4	Loamy Sand	None
H07.08	III	60	100	7.5YR 4/6	Sand	Loose sand with pebbles and no structure
H07.09	I	0	37	10YR 4/3	Sandy Loam	Fill mixed with 10YR 4/6
H07.09	II	37	67	10YR 4/6	Sandy Loam	Disturbed with asphalt throughout strat and root impasse at 67cmbs
H07.10	I	0	19	10YR 4/2	Sandy Loam	Landscape A/O, modern trash
H07.10	II	19	100	10YR 4/3	Sandy Loam	Mixed with 10YR 5/4 and 10 YR 4/2, moderate compact, beer bottle glass and trash throughout mixed/redeposit fill horizon
H07.11	I	0	52	10YR 4/4	Sand	Fill
H07.12	I	0	20	10YR 4/3	Sandy Loam	Mixed with 10YR 4/6
H07.12	II	20	47	10YR 5/6	Loamy Sand	Mixed with trash and asphalt
H07.12	III	47	71	10YR 6/3	Sand	Rock and asphalt leading to impasse
H07.13	I	0	58	10YR 4/2	Loamy Sand	Mixed with 10yr5/4 losa. Redeposited mixed soils. With trash throughout and asphalt
H07.13	II	58	104	10YR 5/3	Loamy Sand	With trash throughout and asphalt debris. Redeposited soil. Limit of hand ex

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
H08.01	I	0	23	10YR 3/2	Loamy Sand	A
H08.01	I	0	12	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
H08.01	II	23	63	10YR 4/6	Sand	Bw
H08.01	II	12	30	10YR 4/3	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
H08.01	III	63	80	10YR 6/4	Sand	Bw2 very saturated with water at 80cmbs
H08.01	III	30	52	10YR 2/2	Sandy Clay	Rocks and gravel present (sub rounded and sub angular). Disturbed soils, mixed with 5/4 and 4/6 sand. Ended for disturbance and compaction.
H08.02	I	0	24	10YR 3/2	Sandy Loam	Mostly humic O with developing A horizonl
H08.02	I	0	8	10YR 3/2	Sandy Loam	Landscape A
H08.02	II	24	58	10YR 5/2	Loamy Sand	Bw, 2-5% rounded gravels
H08.02	II	8	30	10YR 4/3	Sandy Loam	Fill asphalt and modern trash present not collected
H08.02	III	58	73	10YR 6/2	Sand	Possible BC or C, well sorted sand 2-5% gravel, inundated at base of excavation
H08.02	III	30	82	10YR 4/6	Loamy Sand	Fill banded with 10 YR 4/4 asphalt and modern trash present not collected
H08.03	I	0	46	10YR 3/2	Sand	Developing A, brick fragments present not collected
H08.03	I	0	15	10YR 3/2	Sand	Rounded and subrounded rocks present
H08.03	II	46	52	2.5Y 4/4	Sand	Wetland B
H08.03	II	15	30	10YR 3/3	Sand	Rounded and subrounded rocks present
H08.03	III	30	80	10YR 4/6	Sand	Rounded and subrounded rocks present
H08.03	IV	80	100	10YR 5/6	Sand	Rounded and subrounded rocks present
H08.04	I	0	16	10YR 3/3	Sandy Loam	Landscape A
H08.04	II	16	30	10YR 5/4	Sand	Fill asphalt and modern trash present not collected
H08.04	III	30		10YR 4/6	Loamy Sand	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
H08.05	I	0	26	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
H08.05	II	26	40	10YR 5/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for asphalt impasse and compacted soils.
H08.06	I	0	23	10YR 3/3	Sandy Loam	Landscape A
H08.06	II	23	48	10YR 3/2	Loamy Sand	Compacted, banded with 10 YR 5/4 & 4/2 asphalt and modern trash present not collected
H08.06	III	48	77	10YR 5/4	Loamy Sand	Compacted Bw
H08.06	IV	77	100	7.5YR 5/4	Sandy Loam	Bw
H08.07	I	0	20	10YR 3/2	Silt Loam	Rounded and subrounded rocks present
H08.07	II	20	40	10YR 3/3	Sand	Rounded and subrounded rocks present
H08.07	III	40	60	10YR 4/6	Sand	Rounded and subrounded rocks present
H08.07	IV	60	80	10YR 5/6	Sand	Rounded and subrounded rocks present, excavation impasse, compaction
H08.08	I	0	34	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
H08.08	II	34	100	10YR 4/6	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for meter deep.
H08.09	I	0	20	10YR 3/3	Sandy Loam	Landscape A
H08.09	II	20	45	10YR 4/6	Sandy Loam	B
H08.09	III	45	80	10YR 5/4	Sandy Loam	Bw
H08.09	IV	80	100	7.5YR 4/4	Sand	C
H08.10	I	0	8	10YR 3/3	Sandy Loam	None
H08.10	II	8	40	10YR 4/6	Sand	Excavation impasse for large root cluster
H08.11	I	0	15	10YR 3/3	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
H08.11	II	15	82	10YR 5/4	Sand	Very rocky (well rounded, rounded, and sub rounded)

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
H08.11	III	82	100	10YR 6/3	Sand	Very rocky (well rounded, rounded, and sub rounded) ended for meter deep.
H08.12	I	0	14	10YR 3/3	Sandy Loam	Landscape A
H08.12	II	14	22	10YR 4/6	Sandy Loam	B1
H08.12	III	22	69	10YR 5/4	Loamy Sand	B2
H08.13	I	0	15	10YR 3/3	Sandy Loam	None
H08.13	II	15	40	10YR 4/6	Sandy Clay	Rounded and subrounded rocks present, mixed with 10YR 4/3
H08.13	III	40	90	10YR 5/6	Sand	Rounded and subrounded rocks present
H08.13	IV	90	100	10YR 6/3	Sand	Rounded and subrounded rocks present
H08.14	I	0	7	10YR 4/2	Loamy Sand	Overburden with trash, STP 3m from roadside
H08.14	II	7	38	10YR 4/3	Loamy Sand	Fill banded with 10YR 4/4
H08.14	III	38	64	10YR 4/4	Sandy Loam	Fill with pockets of 10YR 6/3
H08.14	IV	64	100	10YR 6/2	Sand	Coarse sand subsoil
H08.15	I	0	16	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
H08.15	II	16	70	10YR 5/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for unknown buried utility.
H08.16	I	0	11	10YR 4/3	Sandy Loam	Road overburden
H08.16	II	11	28	10YR 5/2	Sandy Loam	Fill asphalt and modern trash present not collected
H08.16	III	28	47	10YR 4/2	Sandy Loam	Fill asphalt and modern trash present not collected
H09.01	I	0	24	10YR 2/1	Loamy Sand	Shallow sand cap over a continuous layer of deacying asphalt, approximately 15cm thick
H09.01	II	24	58	10YR 5/2	Sand	Mixed with 10YR 4/2 and 7.5 YR 4/4, moderatly to very compact Fill. Impasse of compacted gravel at base
H09.02	I	0	53	10YR 4/2	Sandy Loam	Mixed with 10YR 5/6 with asphalt and trash
H09.02	II	53	65	10YR 5/6	Sand	Disturbed B? Asphalt throughout

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
H09.02	III	65	100	10YR 6/1	Sand	Possible natural subsoil
H09.03	I	0	23	7.5YR 4/3	Loamy Sand	Fill1 modern trash and asphalt throughout
H09.03	II	23	38	10YR 3/1	Loamy Sand	Fill 2 with 25 percent cobbles. Mod compact. Modern trash and asphalt debris throughout.
H09.03	III	38	102	10YR 6/2	Sand	C horizon loose sand no structure with 30 percent pebbles and cobbles
H09.04	I	0	27	10YR 4/4	Sand	Fill
H09.04	II	27	100	10YR 6/1	Sand	C
H09.05	I	0	10	10YR 3/3	Sandy Loam	Landscape A
H09.05	II	10	57	10YR 4/4	Sandy Loam	Fill asphalt and modern trash present not collected
H09.05	III	57	100	10YR 5/4	Sandy Loam	Fill asphalt and modern trash present not collected
H09.06	I	0	12	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
H09.06	II	12	85	10YR 4/6	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
H09.06	III	85	100	10YR 6/3	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for meter deep.
H09.07	I	0	25	10YR 3/3	Sandy Loam	Rounded and subrounded rocks present
H09.07	II	25	55	10YR 4/3	Sand	Rounded and subrounded rocks present
H09.07	III	55	100	10YR 5/6	Sand	Rounded and subrounded rocks present
H09.08	I	0	10	10YR 4/2	Loamy Sand	Landscape A
H09.08	II	10	100	10YR 4/4	Loamy Sand	Banded fill to a meter, mixed with 10YR 3/2 and asphalt throughout
H09.09	I	0	12	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
H09.09	II	12	100	10YR 5/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded) fill layer, ended for meter deep.
H09.10	I	0	16	10YR 3/3	Sandy Loam	Landscape A

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
H09.10	II	16	100	10YR 5/4	Sandy Loam	Fill asphalt and modern trash present not collected
H09.11	I	0	30	10YR 3/3	Sandy Loam	Rounded and subrounded rocks present
H09.11	II	30	80	10YR 4/4	Sand	Rounded and subrounded rocks present
H09.11	III	80	100	10YR 5/6	Sand	Rounded and subrounded rocks present
H09.12	I	0	16	10YR 4/3	Sandy Loam	Land A
H09.12	II	16	34	10YR 4/4	Loamy Sand	Fill mixed with 10YR 4/3 and asphalt
H09.12	III	34	76	10YR 5/2	Sand	Fill with asphalt
H09.12	IV	76	100	10YR 6/3	Sand	Coarse sand subsoil with oxidation
H09.13	I	0	12	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
H09.13	II	12	86	10YR 5/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded) banded fill mixed with 4/3 sa.
H09.13	III	86	100	10YR 4/3	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), large broken fragments of concrete at base of STP. Ended for meter deep and impasse.
H09.14	I	0	12	10YR 3/3	Sandy Loam	Rounded and subrounded rocks present
H09.14	II	12	50	10YR 4/4	Sand	Rounded and subrounded rocks present
H09.14	III	50	100	10YR 5/4	Sand	Rounded and subrounded rocks present
H09.15	I	0	45	10YR 4/4	Sandy Loam	Fill asphalt and modern trash trash present not collected
H09.16	I	0	13	10YR 4/3	Sandy Loam	Landscape A
H09.16	I	0	13	10YR 4/3	Sandy Loam	Landscape A
H09.16	II	13	44	10YR 4/4	Loamy Sand	Banded fill with asphalt and 10YR 4/2 mixed
H09.16	II	13	44	10YR 4/4	Loamy Sand	Banded fill with asphalt and 10YR 4/2 mixed
H09.16	III	44	100	10YR 5/6	Sand	Redeposited B/C soil
H09.16	III	44	100	10YR 5/6	Sand	Redeposited B/C soil
H09.17	I	0	10	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
H09.17	II	10	65	10YR 5/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), banded fill mixed with 3/2 and 6/3 sand.
H09.17	III	65	100	10YR 4/6	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for meter deep.
H09.18	I	0	11	10YR 3/3	Sandy Loam	Fill asphalt and modern trash present not collected
H09.18	II	11	51	10YR 4/4	Sandy Loam	Fill asphalt and modern trash present not collected
H09.18	III	51	69	10YR 5/4	Sandy Loam	Fill asphalt and modern trash present not collected
H09.19	I	0	26	10YR 3/3	Sandy Loam	Rounded and subrounded rocks present
H09.19	II	26	50	10YR 4/4	Sand	Rounded and subrounded rocks present, asphalt present
H09.19	III	50	90	10YR 5/6	Sand	Rounded and subrounded rocks present
H09.19	IV	90	100	10YR 6/3	Sand	Rounded and subrounded rocks present
H09.20	I	0	33	10YR 5/2	Loamy Sand	Fill with glass and asphalt
H09.20	II	33	91	10YR 4/4	Loamy Sand	Banded fill with 10YR 3/2, glass and asphalt throughout
H09.20	III	91	100	10YR 6/3	Sand	Coarse sand subsoil with oxidation
H09.21	I	0	13	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
H09.21	II	13	50	10YR 5/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), banded fill, mixed with 3/2 and 4/6 sand.
H09.21	III	50	58	10YR 4/6	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for compaction.
H09.22	I	0	35	10YR 3/3	Sandy Loam	Rounded and subrounded rocks present
H09.22	II	35	80	10YR 4/6	Sand	Rounded and subrounded rocks present
H09.22	III	80	100	10YR 5/4	Sand	Rounded and subrounded rocks present

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
H09.23	I	0	21	10YR 4/3	Sandy Loam	Landscape A asphalt and modern trash present not collected
H09.23	II	21	72	10YR 4/6	Loamy Sand	B
H09.23	III	72	100	10YR 6/4	Sand	C
H09.24	I	0	30	10YR 4/3	Sandy Loam	A/Ap
H09.24	II	30	70	7.5YR 5/6	Sandy Loam	Bw
H09.24	III	70	88	10YR 5/4	Loamy Sand	BC
H09.24	IV	88	100	7.5YR 4/4	Sand	C horizon loose sand and gravel
H09.25	I	0	11	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
H09.25	II	11	81	10YR 4/6	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
H09.25	III	81	100	10YR 5/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for meter deep.
H09.26	I	0	13	10YR 4/2	Loamy Sand	Overburden
H09.26	II	13	60	10YR 4/6	Sand	B soil
H09.26	III	60	80	10YR 5/6	Sand	Medium to coarse sand B2
H09.26	IV	80	100	10YR 6/2	Sand	Coarse sand subsoil with oxidation
H09.27	I	0	17	10YR 3/3	Sandy Loam	Rounded and subrounded rocks present
H09.27	II	17	40	10YR 4/4	Sand	Rounded and subrounded rocks present
H09.27	III	40	90	10YR 5/6	Sand	Rounded and subrounded rocks present
H09.27	IV	90	100	10YR 6/3	Sand	Rounded and subrounded rocks present
H09.28	I	0	15	10YR 3/3	Sandy Loam	Rounded and subrounded rocks present
H09.28	II	15	40	10YR 4/3	Sand	Rounded and subrounded rocks present
H09.28	III	40	65	10YR 5/6	Sand	Rounded and subrounded rocks present
H09.28	IV	65	100	10YR 6/3	Sand	Rounded and subrounded rocks present
H09.29	I	0	20	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
H09.29	II	20	85	10YR 5/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
H09.29	III	85	100	10YR 6/3	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for meter deep.
H09.30	I	0	25	10YR 4/3	Loamy Sand	Overburden
H09.30	II	25	52	10YR 4/4	Loamy Sand	Fill asphalt and modern trash present not collected
H09.30	III	52	73	7.5YR 5/4	Sand	C
H09.31	I	0	10	10YR 4/2	Loamy Sand	Overburden
H09.31	II	10	31	10YR 4/4	Sand	Fill with asphalt
H09.31	III	31	56	10YR 5/6	Sand	B soil
H09.31	IV	56	78	10YR 6/2	Sand	Coarse sand subsoil
H1.01	I	0	22	10YR 4/2	Sand	Overburden- styrofoam, asphalt, plastic not collected
H1.01	II	22	79	10YR 5/6	Sand	Road fill- styrofoam, asphalt, plastic not collected
H1.05	I	0	20	10YR 4/3	Sand	Overburden glass, plastic not collected
H1.05	II	20	110	10YR 4/6	Sand	Redeposited 10 YR 6/4 + 10 YR 4/2
H2.03	I	0	31	10YR 5/6	Sand	Overburden- asphalt, glass not collected
H2.04	I	0	30	10YR 4/2	Sand	Overburden- plastic, glass, asphalt not collected
H2.04	II	30	54	10YR 4/6	Sand	B1
H2.04	III	54	97	10YR 5/6	Sand	B2
H2.04	IV	97	110	10YR 6/4	Sand	C
H2.10	I	0	34	10YR 4/2	Sandy Loam	Overburden- plastic, asphalt, glass, styrofoam not collected
H2.10	II	34	64	10YR 5/6	Sand	Redeposited
H2.10	III	64	100	10YR 6/3	Sand	C
HB01.01	I	0	17	10YR 4/1	Sandy Loam	None
HB01.01	II	17	38	10YR 5/4	Sandy Loam	Rounded pebbles and gravel
HB01.01	III	38	100	10YR 4/6	Loamy Sand	Rounded pebbles and gravel
HB01.02	I	0	51	10YR 4/2	Sandy Loam	Fill

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
HB01.02	II	51	72	10YR 5/4	Loamy Sand	B2
HB01.02	III	72	100	10YR 6/4	Sand	C
HB01.03	I	0	20	10YR 4/2	Sandy Loam	None
HB01.03	II	20	74	10YR 5/6	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
HB01.03	III	74	100	10YR 6/4	Sand	Ended for meter deep.
HB01.04	I	0	19	10YR 4/2	Sandy Loam	Excavation impasse for buried line and buried stump
HB01.05	I	0	17	10YR 4/2	Sandy Loam	Overburden
HB01.05	II	17	100	10YR 5/6	Sandy Loam	Banded fill with coarse sand, 10YR 3/2 with asphalt
HB01.06	I	0	16	10YR 4/2	Sandy Loam	None
HB01.06	II	16	52	10YR 4/4	Sandy Loam	Rounded and subrounded rocks present
HB01.06	III	52	70	10YR 5/4	Sand	Rounded and subrounded rocks present
HB01.06	IV	70	75	10YR 4/4	Sand	Excavation impasse for significant compaction
HB01.07	I	0	12	10YR 4/2	Sandy Loam	None
HB01.07	II	12	52	10YR 5/6	Sandy Loam	None
HB01.07	III	52	67	10YR 5/2	Sandy Loam	Heavily compacted banded fill
HB01.08	I	0	11	10YR 4/2	Sandy Loam	Overburden
HB01.08	II	11	51	10YR 5/4	Loamy Sand	B1
HB01.09	I	0	5	10YR 3/2	Loam	None
HB01.09	II	5	20	10YR 5/1	Sandy Loam	None
HB01.09	III	20	45	10YR 5/6	Sand	Rocks and gravel present, very compact. Ended for compaction impasse.
HB01.10	I	0	10	10YR 4/2	Sandy Loam	None
HB01.10	II	10	31	10YR 5/3	Sandy Loam	Heavily compacted
HB01.11	I	0	8	10YR 4/2	Sandy Loam	None
HB01.11	II	8	39	10YR 5/4	Sandy Loam	Rounded and subrounded rocks present
HB01.11	III	39	70	10YR 5/6	Sand	Rounded and subrounded rocks present

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
HB01.11	IV	70	80	10YR 6/4	Sand	Rounded and subrounded rocks present
HB01.12	I	0	10	10YR 4/2	Sandy Loam	None
HB01.12	II	10	37	10YR 4/4	Sandy Loam	None
HB01.12	III	37	85	10YR 5/3	Sand	Rounded and subrounded cobbles
HB01.12	IV	85	100	10YR 6/4	Sand	Rounded and subrounded cobbles sterile subsoil
HB01.13	I	0	18	10YR 4/2	Sandy Loam	Overburden
HB01.13	II	18	55	10YR 6/4	Loamy Sand	B2
HB01.13	III	55	80	10YR 6/2	Sand	Coarse sand subsoil
HB01.14	I	0	12	10YR 4/2	Sandy Loam	Fill
HB01.14	II	12	52	10YR 5/4	Loamy Sand	B2
HB01.15	I	0	23	10YR 4/2	Sandy Loam	None
HB01.15	II	23	52	10YR 4/6	Sandy Loam	None
HB01.15	III	52	79	10YR 4/4	Sandy Loam	None
HB01.15	IV	79	89	10YR 6/4	Sand	None
HB01.16	I	0	15	10YR 4/2	Sandy Loam	None
HB01.16	II	15	61	10YR 5/4	Sandy Loam	Rounded and subrounded rocks present
HB01.16	III	61	100	10YR 5/6	Sand	Rounded and subrounded rocks present
HB01.17	I	0	13	10YR 4/2	Sandy Loam	None
HB01.17	II	13	29	10YR 5/3	Sandy Loam	None
HB01.17	III	29	96	10YR 4/4	Sand	Rounded and subrounded cobbles
HB01.17	IV	96	100	10YR 6/4	Sand	Rounded and subrounded cobbles
HB01.18	I	0	14	10YR 4/2	Sandy Loam	Overburden
HB01.18	II	14	68	10YR 5/4	Loamy Sand	B2
HB01.18	III	68	80	10YR 6/2	Sand	Coarse sand subsoil
HB01.19	I	0	29	10YR 4/2	Sandy Loam	None
HB01.19	II	29	52	10YR 5/3	Sand	Rounded and subrounded cobbles
HB01.19	III	52	100	10YR 4/4	Sand	Rounded and subrounded cobbles
HB01.20	I	0	19	10YR 4/3	Sandy Loam	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
HB01.20	II	19	72	10YR 5/6	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
HB01.20	III	72	82	10YR 7/1	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), course sand. Sterile subsoil.
HB01.21	I	0	17	10YR 4/3	Sandy Loam	Land A
HB01.21	II	17	70	10YR 5/4	Loamy Sand	B2
HB01.21	III	70	80	10YR 7/1	Sand	Coarse sand subsoil with cobbles
HB01.22	I	0	30	10YR 4/2	Sandy Loam	Fill
HB01.22	II	30	60	10YR 4/4	Sandy Loam	Fill
HB01.22	III	60	84	10YR 5/4	Sandy Loam	Rounded and subrounded rocks present
HB01.22	IV	84	96	10YR 5/6	Sand	Rounded and subrounded rocks present
HB01.23	I	0	34	10YR 4/2	Sandy Loam	None
HB01.23	II	34	73	10YR 4/6	Sandy Loam	None
HB01.23	III	73	100	10YR 4/3	Sandy Loam	None
HB01.24	I	0	42	10YR 4/2	Sandy Loam	Banded fill with 10YR 4/6
HB01.24	II	42	58	7.5YR 4/6	Sandy Loam	Extremely compact B1 with impasse at 58cmbs
I0.06	I	0	15	10YR 4/2	Sandy Loam	Angular and subangular gravel, fill
I0.06	II	15	31	10YR 5/3	Sandy Loam	Angular, subangular, rounded and subrounded rocks and gravel present, banded fill
I0.06	III	31	50	7.5YR 4/4	Sandy Loam	Rounded and subrounded rocks present, fill
I0.06	IV	50	80	10YR 5/4	Sand	Rounded and subrounded rocks present
I0.06	V	80	100	10YR 5/6	Sand	Rounded and subrounded rocks present
I01.01	I	0	20	10YR 4/4	Sandy Loam	Fill with trash and asphalt
I01.01	II	20	79	10YR 4/3	Sandy Loam	Fill mixed with 10YR 5/6 with asphalt and trash
I01.01	III	79	90	10YR 4/2	Loamy Sand	Asphalt impasse at 90cmbs
I01.02	I	0	26	10YR 3/2	Sandy Loam	O/A hoizon, some modern trash throughout
I01.02	II	26	64	10YR 5/3	Sandy Loam	Highly compact, likely graded and compacted by heavy machinery, Bwp

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
I01.02	III	64	98	10YR 6/4	Sand	Loose BC or C sands
I01.02	IV	98	115	10YR 6/2	Sand	Loose C sand and gravel
I01.03	I	0	21	10YR 4/4	Sand	Fill asphalt present
I01.03	II	21	42	10YR 4/6	Sand	Fill asphalt present
I01.04	I	0	20	10YR 4/3	Sandy Loam	Fill with asphalt
I01.04	II	20	54	10YR 4/4	Sand	Concreted fill with asphalt throughout
I01.04	III	54	78	10YR 5/6	Sand	Possible natural strat with rock impasse at 78cmbs
I01.05	I	0	44	10YR 4/2	Loamy Sand	Modern trash throughout.
I01.05	II	44	77	10YR 5/4	Loamy Sand	Mod compact
I01.05	III	77	94	7.5YR 4/4	Sand	None
I01.05	IV	94	106	10YR 6/2	Sand	C with 30 percent pebbles
I01.06	I	0	47	10YR 4/6	Sand	Fill asphalt present
I01.07	I	0	20	10YR 4/2	Loamy Sand	Fill
I01.07	II	20	73	10YR 4/6	Loamy Sand	Moderately compact
I01.07	III	73	92	10YR 5/6	Loamy Sand	None
I01.07	IV	92	100	10YR 6/2	Loamy Sand	Loose structured subsoil
I01.10	I	0	20	10YR 4/3	Loamy Sand	Disturbed topsoil with asphalt
I01.10	II	20	36	10YR 4/4	Loamy Sand	Disturbed B with rock impasse at 36cmbs
I02.01	I	0	20	10YR 2/2	Loamy Sand	Gravel fill. Manhole for water line 79 cm south of ex. Disturbed compact gravel fill. Stop excavation for potential hazard and interlocking gravel fill
I02.02	I	0	13	10YR 4/3	Sand	Landscape
I02.02	II	13	23	10YR 4/6	Sand	Fill
I02.02	III	23	36	10YR 3/3	Sand	Fill compacted
I02.03	I	0	15	10YR 3/3	Sand	Landscape
I02.03	II	15	28	10YR 4/6	Sand	Fill
I02.03	III	28	36	10YR 4/3	Sand	Fill compacted
I02.05	I	0	30	10YR 4/3	Sand	Fill

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
I02.05	I	0	30	10YR 4/3	Sand	Fill
I02.05	II	30	44	10YR 4/6	Sand	Fill compacted
I02.05	II	30	44	10YR 4/6	Sand	Fill compacted
I02.06	I	0	24	10YR 3/4	Sand	Fill
I02.06	II	24	38	10YR 4/6	Sand	Fill compacted
I02.07	I	0	20	10YR 4/3	Loamy Sand	Fill with concrete
I02.07	II	20	33	10YR 4/4	Loamy Sand	Disturbed soil with concrete impasse
I02.08	I	0	20	10YR 3/3	Sand	Fill
I02.08	II	20	32	10YR 4/6	Sand	Fill
I02.09	I	0	24	10YR 4/2	Loamy Sand	Trash throughout
I02.09	II	24	81	10YR 5/4	Loamy Sand	Mixed with 7.5yr4/4 and 10yr5/4 losa. High compact. Spoil from retention pond redeposited concreted soilswith modern trash throughout. Limit of hand ex
I02.11	I	0	28	10YR 4/2	Loamy Sand	Landscape A, modern trash
I02.11	II	28	85	10YR 5/4	Loamy Sand	Mixed with 10YR 5/6 and 7.5 YR 5/4 and 10YR 4/2, highly compact mixed fill/ redeposit. Likely piled spoil from excavation of retention basin.
I02.12	I	0	26	10YR 3/3	Sand	Fill
I02.12	II	26	47	10YR 4/6	Sand	Fill compacted
I02.13	I	0	32	10YR 4/2	Loamy Sand	Mixed with 10yr5/4. Modern trash throughout
I02.13	II	32	48	10YR 5/3	Loamy Sand	Mixed with 10yr 5/4. High compact with modern trash throughout
I02.13	III	48	72	10YR 5/4	Loamy Sand	Moderate compact. Probably a fill or redeposited soil
I02.13	IV	72	101	7.5YR 4/6	Sand	Natural sub probably. Loose no structure with rounded pebbles. Limit of hand ex
I02.14	I	0	30	10YR 4/3	Loamy Sand	Fill/redeposited soil with asphalt and trash
I02.14	II	30	100	10YR 4/6	Loamy Sand	Mixed with asphalt and pockets of 10YR 3/2 to 100cmbs

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
I02.15	I	0	9	10YR 4/3	Sand	None
I02.15	II	9	60	10YR 4/6	Sand	Fill asphalt present
I02.15	III	60	86	10YR 6/3	Sand	C
I02.16	I	0	18	10YR 4/2	Loamy Sand	Fill
I02.16	II	18	67	10YR 5/4	Sand	Fill mixed 7.5 yr 5/4
I02.16	III	67	94	10YR 7/1	Silt	Compact silt concretions
I02.16	IV	94	105	10YR 6/2	Sand	C
I02:04	I	0	30	10YR 4/2	Sandy Loam	Compacted redeposit A, mixed with 10YR 2/2 ribboned throughout, modern trash
I02:04	II	30	82	10YR 6/6	Loamy Sand	Highly compact, mixed with 10YR 5/4, modern trash throughout, rock impasse
I03.01	I	0	5	10YR 3/2	Sandy Loam	Ended for pavement impasse.
I03.02	I	0	22	10YR 4/2	Sandy Loam	None
I03.02	II	22	53	10YR 4/4	Sandy Loam	None
I03.02	III	53	100	10YR 5/4	Sand	Rounded and subrounded cobbles and gravel
I03.03	I	0	15	10YR 4/2	Sandy Loam	Fill
I03.03	II	15	46	10YR 5/4	Sand	Extremely compact fill with asphalt leading to impasse at 46cmbs
I03.04	I	0	24	10YR 4/1	Sandy Loam	None
I03.04	II	24	31	10YR 5/4	Sand	Very compact, ended for compaction impasse.
I03.05	I	0	43	10YR 5/4	Loamy Sand	Fill
I03.07	I	0	15	10YR 4/2	Sandy Loam	Landscape A
I03.07	II	15	80	10YR 4/6	Sandy Loam	Banded fill with 10YR 3/2 and asphalt throughout until hitting underground utility at 80cmbs
I03.08	I	0	14	10YR 4/2	Sandy Loam	None
I03.08	II	14	43	10YR 4/4	Sandy Loam	Rounded and subrounded cobbles and gravel
I03.08	III	43	80	10YR 4/6	Sand	Hit PVC pipe at 80cm bottom of shovel test
I03.09	I	0	27	10YR 4/2	Sandy Loam	Banded fill
I03.09	II	27	67	7.5YR 4/4	Sandy Loam	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
I03.09	III	67	100	10YR 4/6	Sandy Loam	None
MB01.01	I	0	8	10YR 4/2	Sandy Loam	None
MB01.01	II	8	42	10YR 5/3	Sand	Very compact and rocky. Ended for compaction impasse.
MB01.02	I	0	21	10YR 4/1	Sandy Loam	Heavily compacted soil with concrete
MB01.03	I	0	13	10YR 4/2	Sandy Loam	Fill
MB01.03	II	13	25	10YR 5/2	Loamy Sand	Concreted fill leading to impasse
MB01.04	I	0	11	10YR 4/3	Sandy Loam	Angular, subangular, rounded and subrounded rocks and gravel present
MB01.04	II	11	21	10YR 4/6	Sandy Loam	Angular, subangular, rounded and subrounded rocks present, excavation impasse for significant compaction
MB01.05	I	0	12	10YR 3/3	Sandy Loam	Landscape A
MB01.05	II	12	30	10YR 5/3	Loamy Sand	Fill asphalt and modern trash present not collected
MB01.06	I	0	30	10YR 4/4	Sandy Loam	Rounded and subrounded gravel fill
MB01.06	II	30	43	10YR 4/2	Sand	None
MB01.06	III	43	100	10YR 4/6	Sand	None
MB01.07	I	0	20	10YR 4/2	Sandy Loam	Fill
MB01.07	II	20	52	10YR 5/3	Sandy Loam	Fill with asphalt
MB01.07	III	52	100	10YR 4/3	Sandy Clay Loam	Redeposited B2
MB01.08	I	0	11	10YR 4/2	Sandy Loam	None
MB01.08	II	11	32	10YR 5/1	Sandy Loam	Banded fill
MB01.08	III	32	42	10YR 4/6	Sandy Clay Loam	Heavily compacted
MB01.09	I	0	30	10YR 4/2	Sandy Loam	Very compact and rocky. Ended for compaction impasse.
MB01.10	I	0	29	10YR 4/2	Sandy Loam	Rocky fill
MB01.10	II	29	40	10YR 5/4	Sand	Very compact
MB01.10	III	40	75	10YR 5/6	Sand	Very compact
MB01.10	IV	75	100	10YR 6/4	Sand	Compact, coarse sand.
MB01.11	I	0	19	10YR 4/2	Sandy Loam	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
MB01.11	II	19	52	10YR 5/6	Sandy Loam	Banded fill
MB01.11	III	52	79	10YR 4/4	Sandy Loam	None
MB01.11	IV	79	100	10YR 4/6	Sandy Loam	None
MB01.12	I	0	20	10YR 4/2	Sandy Loam	Landscape A
MB01.12	II	20	30	10YR 5/2	Loamy Sand	Fill asphalt and modern trash present not collected
MB01.13	I	0	15	10YR 4/2	Sandy Loam	None
MB01.13	II	15	25	10YR 5/3	Sandy Loam	Rounded and subrounded gravel
MB01.13	III	25	40	10YR 3/2	Sandy Loam	None
MB01.13	IV	40	100	10YR 4/4	Sand	None
MB01.14	I	0	13	10YR 3/3	Sandy Loam	Landscape A
MB01.14	II	13	25	10YR 5/2	Sandy Loam	Fill asphalt and modern trash trash present not collected
MB01.15	I	0	32	10YR 4/2	Sandy Loam	Rocky banded fill.
MB01.15	II	32	62	10YR 5/4	Sand	Very rocky, large rounded cobbles.
MB01.15	III	62	80	10YR 5/6	Sand	None
MB01.15	IV	80	100	10YR 6/6	Sand	Ended for meter deep.
MB01.16	I	0	29	10YR 4/2	Sandy Loam	Fill
MB01.17	I	0	28	10YR 4/2	Sandy Loam	Disturbed fill
MB01.17	II	28	35	10YR 3/3	Silt Loam	None
MB01.17	III	35	69	10YR 5/3	Sand	Rounded and subrounded cobbles and gravel
MB01.17	IV	69	100	10YR 4/6	Sand	Rounded and subrounded cobbles and gravel
MB01.18	I	0	24	10YR 4/2	Sandy Loam	None
MB01.18	II	24	37	10YR 4/1	Sandy Loam	None
MB01.18	III	37	83	10YR 4/6	Sandy Loam	None
MB01.18	IV	83	89	10YR 5/6	Sandy Clay	None
MB01.19	I	0	9	10YR 4/2	Sandy Loam	None
MB01.19	II	9	25	10YR 4/1	Sandy Loam	Subangular, rounded and subrounded rocks present

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
MB01.19	III	25	45	10YR 2/2	Sandy Loam	Subangular, rounded and subrounded rocks present
MB01.19	IV	45	60	10YR 5/4	Sand	Rounded and subrounded rocks present
MB01.19	V	60	100	10YR 5/6	Sand	Rounded and subrounded rocks present
MB01.20	I	0	11	10YR 4/2	Sandy Loam	Fill with asphalt
MB01.20	II	11	32	10YR 5/2	Loamy Sand	Fill with asphalt impasse
N02.24	I	0	15	10YR 3/3	Sandy Loam	None
N02.24	II	15	28	10YR 4/6	Sand	None
N02.24	III	28	47	10YR 4/2	Sandy Loam	None
N02.24	IV	47	75	10YR 5/3	Sand	Rounded and subrounded cobbles amd gravel. Cobbles blocking shovel test
NI01.01	I	0	13	10YR 4/2	Sandy Loam	None
NI01.01	II	13	45	10YR 4/6	Loamy Sand	None
NI01.01	III	45	74	10YR 5/4	Sand	None
NI01.01	IV	74	100	10YR 6/4	Sand	Rounded and subrounded gravel and cobbles
NI01.02	I	0	24	10YR 4/2	Loamy Sand	A
NI01.02	II	24	88	10YR 5/6	Loamy Sand	Bw
NI01.02	III	88	100	10YR 6/6	Sand	BC 2-5% rounded gravels
NI01.03	I	0	23	10YR 4/2	Sandy Loam	Overburden modern trash present not collected
NI01.03	II	23	55	10YR 4/6	Sandy Loam	B1
NI01.03	III	55	82	10YR 5/3	Sand	B2
NI01.03	IV	82	100	10YR 6/4	Sand	C
NI01.04	I	0	16	10YR 5/3	Sandy Loam	A
NI01.04	II	16	30	10YR 4/6	Sandy Loam	B
NI01.05	I	0	20	10YR 4/2	Sandy Loam	Disturbed modern trash found in strat
NI01.05	II	20	56	10YR 4/6	Sandy Loam	None
NI01.05	III	56	72	10YR 5/4	Sand	Gravel ame cobbles subrounded
NI01.05	IV	72	87	10YR 6/3	Sand	Rounded cobbles
NI01.06	I	0	26	10YR 4/1	Loamy Sand	A

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI01.06	II	26	70	10YR 5/4	Loamy Sand	Bw
NI01.06	III	70	88	10YR 6/6	Sand	BC
NI01.06	IV	88	100	10YR 6/2	Sand	C horizon loose sand and gravel
NI01.07	I	0	22	10YR 4/2	Sandy Loam	Overburden modern trash present not collected
NI01.07	II	22	52	10YR 4/6	Sandy Loam	B1
NI01.07	III	52	79	10YR 5/3	Sand	B2
NI01.09	I	0	19	10YR 4/2	Sandy Loam	None
NI01.09	II	19	45	10YR 4/4	Sand	Rounded and subrounded rocks present
NI01.09	III	45	82	10YR 5/3	Sand	Rounded and subrounded rocks present
NI01.09	IV	82	100	10YR 6/4	Sand	Rounded and subrounded rocks present
NI01.10	I	0	13	10YR 4/2	Sandy Loam	None
NI01.10	II	13	24	10YR 4/6	Sandy Loam	Redopisted
NI01.10	III	24	30	10YR 3/2	Sandy Loam	None
NI01.10	IV	30	64	10YR 4/6	Sandy Loam	B1
NI01.10	V	64	84	10YR 5/4	Sand	B2 to 74, C to 84 10 YR 6/4 sa with cobbles
NI01.11	I	0	30	10YR 4/1	Loamy Sand	A/Ao
NI01.11	II	30	73	10YR 5/4	Loamy Sand	Bw
NI01.11	III	73	89	7.5YR 5/4	Sand	BC
NI01.11	IV	89	100	10YR 6/2	Sand	Loose C horizon
NI01.12	I	0	14	10YR 7/4	Sandy Loam	Redeposited subsoil
NI01.12	II	14	34	10YR 3/2	Sandy Loam	A/Ao
NI01.12	III	34	77	10YR 5/6	Loamy Sand	Bw
NI01.12	IV	77	100	10YR 6/4	Sand	BC
NI01.13	I	0	20	10YR 4/2	Sandy Loam	None
NI01.13	II	20	37	10YR 4/6	Sandy Loam	None
NI01.13	III	37	67	10YR 4/4	Sand	Subrounded and rounded cobbles
NI01.13	IV	67	100	10YR 5/6	Sand	Rounded and subrounded cobbles
NI01.14	I	0	18	10YR 4/2	Sandy Loam	A

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI01.14	II	18	50	10YR 4/6	Sandy Loam	B1 compacted
NI01.14	III	50	71	10YR 5/4	Sand	B2
NI01.14	IV	71	84	10YR 6/4	Sand	C
NI01.16	I	0	27	10YR 3/2	Loamy Sand	A/Ao
NI01.16	II	27	60	7.5YR 5/4	Loamy Sand	Bw
NI01.16	III	60	83	10YR 5/4	Sand	BC
NI01.16	IV	83	100	10YR 5/6	Sand	Loose C horizon sand
NI01.17	I	0	14	10YR 4/2	Sandy Loam	Rounded and subrounded rocks present
NI01.17	II	14	30	10YR 4/4	Sand	Rounded and subrounded rocks present
NI01.17	III	30	90	10YR 4/6	Sand	Rounded and subrounded rocks present
NI01.17	IV	90	100	10YR 6/4	Sand	Rounded and subrounded rocks present
NI01.18	I	0	20	10YR 3/3	Sandy Loam	None
NI01.18	II	20	57	10YR 4/4	Sandy Loam	None
NI01.18	III	57	821	10YR 5/3	Sand	Rounded gravel
NI01.18	IV	821	100	10YR 6/4	Sand	Rounded gravel sterile subsoil
NI01.19	I	0	15	10YR 4/2	Sandy Loam	A/Ao
NI01.19	II	15	61	10YR 5/4	Loamy Sand	Bw
NI01.19	III	61	91	7.5YR 5/6	Sand	BC
NI01.19	IV	91	100	10YR 6/2	Sand	Loose C horizon sand and gravel
NI01.20	I	0	14	10YR 4/2	Sandy Loam	A
NI01.20	II	14	37	10YR 4/6	Sandy Loam	B1 and compacted
NI01.20	III	37	64	10YR 5/4	Sand	B2
NI01.20	IV	64	84	10YR 5/6	Sand	None
NI01.21	I	0	15	10YR 4/2	Sandy Loam	Rounded and subrounded rocks present
NI01.21	II	15	40	10YR 4/4	Sand	Rounded and subrounded rocks present
NI01.21	III	40	100	10YR 5/4	Sand	Rounded and subrounded rocks present
NI01.22	I	0	16	10YR 3/3	Sandy Loam	None
NI01.22	II	16	50	10YR 4/4	Sandy Loam	None
NI01.22	III	50	82	10YR 5/3	Sand	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI01.22	IV	82	100	10YR 6/4	Sand	None
NI01.23	I	0	24	10YR 5/3	Sandy Loam	Overburden banded with redep B 10 YR 4/6 SaLo
NI01.23	II	24	32	10YR 3/1	Loamy Sand	Buried A
NI01.23	III	32	54	10YR 4/6	Loamy Sand	B1
NI01.23	IV	54	100	10YR 5/4	Loamy Sand	B2
NI01.24	I	0	13	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
NI01.24	II	13	37	10YR 5/3	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
NI01.24	III	37	100	10YR 5/4	Sand	Very rocky (well rounded, rounded, and sub rounded) ended for meter deep.
NI01.25	I	0	5	10YR 5/3	Sandy Loam	Disturbed
NI01.25	II	5	8	10YR 3/3	Sandy Loam	None
NI01.25	III	8	55	10YR 4/4	Sandy Loam	None
NI01.25	IV	55	89	10YR 5/3	Sand	Rounded and sunrounded cobbles
NI01.25	V	89	100	10YR 6/4	Sand	Sterile subsoil
NI01.26	I	0	20	10YR 4/1	Sandy Loam	Rounded and subrounded rocks present
NI01.26	II	20	30	10YR 3/2	Sandy Loam	Rounded and subrounded rocks present
NI01.26	III	30	55	10YR 4/4	Sand	Rounded and subrounded rocks present
NI01.26	IV	55	100	10YR 5/4	Sand	Rounded and subrounded rocks present
NI01.27	I	0	16	10YR 7/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
NI01.27	II	16	36	10YR 6/4	Sand	Banded fill mixed with 3/2 sa. Rocks and gravel present (well rounded, rounded, and sub rounded)
NI01.27	III	36	100	10YR 5/6	Sand	Decreasing rocky concentration, rocks present (well rounded, rounded, and sub rounded) ended for meter deep.
NI01.28	I	0	10	10YR 4/1	Loamy Sand	A
NI01.28	II	10	17	10YR 5/1	Loamy Sand	Ae

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI01.28	III	17	48	10YR 5/4	Loamy Sand	B1
NI01.28	IV	48	80	10YR 5/6	Loamy Sand	B2
NI01.28	V	80	100	10YR 6/6	Sand	C
NI01.29	I	0	10	10YR 3/2	Sandy Loam	None
NI01.29	II	10	21	10YR 5/1	Sand	E horizon
NI01.29	III	21	100	10YR 5/6	Sand	Ended for meter deep
NI01.30	I	0	19	10YR 4/2	Sandy Loam	Rounded and subrounded rocks present, E horizon at bottom of strat ~2cm thick
NI01.30	II	19	50	10YR 4/4	Sand	Rounded and subrounded rocks present
NI01.30	III	50	100	10YR 5/4	Sand	Rounded and subrounded rocks present
NI01.31	I	0	24	10YR 3/3	Sandy Loam	None
NI01.31	I	0	10	10YR 4/1	Loamy Sand	A
NI01.31	II	24	55	10YR 4/4	Sandy Loam	None
NI01.31	II	10	17	10YR 5/1	Loamy Sand	Ae
NI01.31	III	55	100	10YR 5/3	Sand	None
NI01.31	III	17	48	10YR 5/4	Loamy Sand	B1
NI01.31	IV	48	80	10YR 5/6	Loamy Sand	B2
NI01.31	V	80	100	10YR 6/6	Sand	C
NI01.32	I	0	9	10YR 4/1	Sandy Loam	None
NI01.32	II	9	64	10YR 5/6	Sand	Comoacted banded fill layer mixed with 3/2 sa.
NI01.32	III	64	100	10YR 6/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
NI01.33	I	0	10	10YR 4/2	Sandy Loam	None
NI01.33	II	10	35	10YR 5/6	Sandy Loam	None
NI01.33	III	35	100	10YR 5/4	Sandy Loam	Sterile subsoil rounded and subrounded cobbles
NI01.34	I	0	9	10YR 4/2	Sandy Loam	Rounded and subrounded rocks present
NI01.34	II	9	25	10YR 5/3	Sand	Rounded and subrounded rocks present
NI01.34	III	25	60	10YR 4/4	Sand	Rounded and subrounded rocks present

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI01.34	IV	60	100	10YR 5/4	Sand	Rounded and subrounded rocks present
NI01.35	I	0	23	10YR 3/3	Loamy Sand	Overburden
NI01.35	II	23	64	10YR 5/4	Loamy Sand	B1
NI01.35	III	64	100	10YR 5/6	Loamy Sand	B2
NI01.36	I	0	8	10YR 4/1	Loamy Sand	A
NI01.36	II	8	14	10YR 5/1	Loamy Sand	Ae
NI01.36	III	14	50	10YR 5/4	Loamy Sand	B1
NI01.36	IV	50	90	10YR 5/6	Loamy Sand	B2
NI01.36	V	90	100	10YR 6/6	Sand	C
NI01.37	I	0	20	10YR 3/2	Sandy Loam	Discarded modern trash.
NI01.37	II	20	73	10YR 4/6	Sand	Slightly compacted
NI01.37	III	73	100	10YR 6/3	Sand	Ended for meter deep.
NI01.38	I	0	18	10YR 4/2	Sandy Loam	Rounded and subrounded rocks present
NI01.38	II	18	40	10YR 4/4	Sand	Rounded and subrounded rocks present
NI01.38	III	40	85	10YR 5/4	Sand	Rounded and subrounded rocks present
NI01.38	IV	85	100	10YR 6/4	Sand	Rounded and subrounded rocks present
NI01.39	I	0	13	10YR 3/3	Sandy Loam	None
NI01.39	II	13	35	10YR 4/6	Sandy Loam	None
NI01.39	III	35	88	10YR 5/3	Sand	None
NI01.39	IV	88	100	10YR 6/4	Sand	None
NI01.40	I	0	9	10YR 3/2	Sandy Loam	None
NI01.40	II	9	100	10YR 5/6	Sand	Fill. Ended for meter deep.
NI01.41	I	0	17	10YR 4/1	Sandy Loam	Rounded and subrounded rocks present
NI01.41	II	17	24	10YR 3/2	Sandy Loam	Rounded and subrounded rocks present
NI01.41	III	24	50	10YR 4/4	Sand	Rounded and subrounded rocks present
NI01.41	IV	50	90	10YR 5/4	Sand	Rounded and subrounded rocks present
NI01.41	V	90	100	10YR 6/4	Sand	Rounded and subrounded rocks present
NI01.42	I	0	12	10YR 4/1	Loamy Sand	A
NI01.42	II	12	58	10YR 5/4	Loamy Sand	B1

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI01.42	III	58	87	10YR 5/6	Loamy Sand	B2
NI01.42	IV	87	100	10YR 6/4	Sand	C
NI01.43	I	0	13	10YR 3/4	Sandy Loam	None
NI01.43	II	13	30	10YR 4/6	Sandy Loam	Dense root impasse blocking shovel test
NI01.44	I	0	10	10YR 3/3	Sandy Loam	None
NI01.44	II	10	16	10YR 2/2	Sandy Loam	None
NI01.44	III	16	80	10YR 4/6	Sand	Compaction, rocks and gravel present (well rounded, rounded, and sub rounded)
NI01.44	IV	80	100	10YR 6/3	Sand	Very rocky (well rounded, rounded, and sub rounded), ended for meter deep
NI01.45	I	0	28	10YR 5/2	Sandy Loam	Rounded,subrounded and, subangular rocks present
NI01.45	II	28	40	10YR 4/4	Sand	Rounded and subrounded rocks present
NI01.45	III	40	45	10YR 3/2	Sandy Loam	Rounded and subrounded rocks present
NI01.45	IV	45	100	10YR 4/4	Sand	Rounded and subrounded rocks present
NI01.46	I	0	12	10YR 4/2	Loamy Sand	A
NI01.46	II	12	60	10YR 5/4	Loamy Sand	B1
NI01.46	III	60	80	10YR 5/6	Sand	B2
NI01.46	IV	80	100	10YR 6/4	Sand	C
NI01.47	I	0	13	10YR 4/1	Sandy Loam	None
NI01.47	II	13	65	10YR 5/6	Sand	None
NI01.47	III	65	100	10YR 6/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for meter deep
NI01.48	I	0	11	10YR 3/4	Sandy Loam	None
NI01.48	II	11	37	10YR 4/6	Sandy Loam	None
NI01.48	III	37	90	10YR 5/3	Sand	None
NI01.48	IV	90	100	10YR 6/4	Sand	None
NI01.49	I	0	32	10YR 5/4	Loamy Sand	Fill banded with 10 YR 4/4 and 6/2
NI01.49	II	32	36	10YR 4/1	Loamy Sand	A compacted

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI01.49	III	36	70	10YR 5/4	Loamy Sand	Bw
NI01.49	IV	70	92	10YR 5/4	Sand	B2
NI01.49	V	92	100	10YR 6/4	Sand	C
NI01.50	I	0	12	10YR 4/1	Sandy Loam	Very rocky (well rounded, rounded, and sub rounded)
NI01.50	II	12	81	10YR 5/6	Sand	Very rocky (well rounded, rounded, and sub rounded)
NI01.50	III	81	100	10YR 6/4	Sand	Very rocky (well rounded, rounded, and sub rounded) ended for meter deep
NI01.51	I	0	10	10YR 4/2	Sandy Loam	None
NI01.51	II	10	51	10YR 4/6	Sandy Loam	None
NI01.51	III	51	80	10YR 6/4	Sand	Rounded and subrounded cobbles
NI01.51	IV	80		NONE/NONE		None
NI01.52	I	0	17	10YR 4/1	Sandy Loam	None
NI01.52	II	17	82	10YR 5/6	Sand	None
NI01.52	III	82	100	10YR 6/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded) ended for meter deep
NI01.53	I	0	20	10YR 4/1	Sandy Loam	Angular, subangular, subrounded and, rounded rocks and gravel present
NI01.53	II	20	25	10YR 4/4	Sandy Loam	Rounded and subrounded rocks present
NI01.53	III	25	30	10YR 3/2	Sandy Loam	Rounded and subrounded rocks present
NI01.53	IV	30	40	10YR 4/4	Sand	Rounded and subrounded rocks present
NI01.53	V	40	100	10YR 5/4	Sand	Rounded and subrounded rocks present
NI01.54	I	0	15	10YR 4/1	Loamy Sand	A
NI01.54	II	15	48	10YR 5/6	Loamy Sand	Bw
NI01.54	III	48	80	10YR 6/6	Sand	BC
NI01.54	IV	80	100	10YR 6/2	Sand	Loose C horizon sand and gravel
NI01.55	I	0	10	10YR 4/2	Sandy Loam	None
NI01.55	II	10	41	10YR 4/6	Sandy Loam	None
NI01.55	III	41	48	10YR 4/1	Sand	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI01.55	IV	48	73	10YR 5/3	Sand	Very compact
NI01.56	I	0	16	10YR 5/2	Sandy Loam	Rounded and subrounded rocks present
NI01.56	II	16	36	10YR 4/4	Sand	Rounded and subrounded rocks present
NI01.56	III	36	60	10YR 5/4	Sand	Many rounded and subrounded rocks present
NI01.56	IV	60	90	10YR 6/4	Sand	Rounded and subrounded rocks present
NI01.56	V	90	100	10YR 6/3	Sand	Rounded and subrounded rocks present
NI02.01	I	0	26	10YR 3/2	Sandy Loam	None
NI02.01	II	26	100	10YR 5/6	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded) ended for meter deep.
NI02.02	I	0	16	10YR 3/2	Loamy Sand	A
NI02.02	II	16	34	10YR 5/4	Loamy Sand	B1
NI02.02	III	34	100	10YR 5/6	Sand	B2
NI02.03	I	0	15	10YR 5/2	Sandy Loam	Rounded and subrounded rocks present
NI02.03	II	15	36	10YR 4/4	Sand	Rounded and subrounded rocks present
NI02.03	III	36	45	10YR 3/3	Sand	Rounded and subrounded rocks present
NI02.03	IV	45	70	10YR 3/6	Sand	Rounded and subrounded rocks present
NI02.03	V	70	100	10YR 4/6	Sand	Rounded and subrounded rocks present
NI02.04	I	0	13	10YR 3/3	Sandy Loam	None
NI02.04	II	13	18	10YR 3/4	Sandy Loam	None
NI02.04	III	18	75	10YR 4/6	Sand	Dense roots excavation impasse
NI02.05	I	0	23	10YR 4/4	Sand	Overburden
NI02.05	I	0	23	10YR 4/4	Sand	Overburden
NI02.05	II	23	71	10YR 4/6	Loamy Sand	B1
NI02.05	II	23	71	10YR 4/6	Loamy Sand	B1
NI02.05	III	71	93	10YR 5/4	Sand	B2
NI02.05	III	71	93	10YR 5/4	Sand	B2
NI02.05	IV	93	100	10YR 6/4	Sand	C
NI02.05	IV	93	100	10YR 6/4	Sand	C
NI02.06	I	0	10	10YR 4/2	Sandy Loam	Rounded and subrounded rocks present

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI02.06	II	10	35	10YR 5/2	Sand	Rounded and subrounded rocks present
NI02.06	III	35	90	10YR 4/4	Sand	Rounded and subrounded rocks present
NI02.06	IV	90	100	10YR 5/4	Sand	Rounded and subrounded rocks present
NI02.07	I	0	14	10YR 4/1	Sandy Loam	None
NI02.07	II	14	69	10YR 5/6	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
NI02.07	III	69	78	10YR 6/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded) ended for rocky impasse.
NI02.08	I	0	16	10YR 3/3	Sand	Mixed with 10yr 4/6 sand
NI02.08	II	16	33	10YR 3/2	Sandy Loam	None
NI02.08	III	33	67	10YR 4/6	Sand	None
NI02.08	IV	67	100	10YR 5/3	Sand	None
NI02.09	I	0	8	10YR 4/2	Sandy Loam	Rounded and subrounded rocks present
NI02.09	II	8	28	10YR 3/4	Sand	Rounded and subrounded rocks present
NI02.09	III	28	80	10YR 4/6	Sand	Rounded and subrounded rocks present
NI02.09	IV	80	100	10YR 6/4	Sand	Rounded and subrounded rocks present
NI02.10	I	0	15	10YR 6/1	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded) fill layer
NI02.10	II	15	25	10YR 3/2	Sandy Loam	Buried A horizon
NI02.10	III	25	85	10YR 5/6	Sand	Very rocky (well rounded, rounded, and sub rounded)
NI02.10	IV	85	100	10YR 6/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for meter deep.
NI02.100	I	0	14	10YR 4/2	Sandy Loam	A
NI02.100	II	14	54	10YR 5/6	Sandy Loam	Compacted Bw
NI02.100	III	54	88	7.5YR 5/6	Loamy Sand	BC
NI02.100	IV	88	100	10YR 6/2	Sand	C horizon loose sand and gravel
NI02.11	I	0	9	10YR 3/3	Sandy Loam	None
NI02.11	II	9	24	10YR 4/4	Sandy Loam	Disturbed

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI02.11	III	24	35	10YR 3/3	Sandy Loam	Subrounded gravel
NI02.11	IV	35	79	10YR 5/4	Sand	Subrounded and rounded cobbles amd gravel. Large cobble at bottom of shovel test
NI02.12	I	0	15	10YR 4/2	Sandy Loam	A
NI02.12	II	15	53	10YR 5/4	Sandy Loam	Bw
NI02.12	III	53	90	10YR 5/6	Loamy Sand	BC
NI02.12	IV	90	110	10YR 6/4	Sand	C horizon loose sand
NI02.13	I	0	5	10YR 4/2	Loamy Sand	Overburden
NI02.13	II	5	16	10YR 4/3	Loamy Sand	A
NI02.13	III	16	35	10YR 5/4	Loamy Sand	B1
NI02.13	IV	35	60	10YR 5/6	Sand	B2
NI02.13	V	60	75	10YR 6/4	Sand	None
NI02.14	I	0	12	10YR 3/2	Sandy Loam	None
NI02.14	II	12	23	10YR 4/1	Sand	None
NI02.14	III	23	66	10YR 5/6	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
NI02.14	IV	66	100	10YR 6/4	Sand	Very rocky (well rounded, rounded, and sub rounded), ended for meter deep
NI02.15	I	0	20	10YR 5/4	Sandy Loam	Redeposited B, rounded and subrounded rocks present
NI02.15	II	20	35	10YR 3/2	Sandy Loam	Buried A, rounded and subrounded rocks present
NI02.15	III	35	63	10YR 5/4	Sand	Rounded and subrounded rocks present
NI02.15	IV	63	83	10YR 5/6	Sandy Loam	Rounded and subrounded rocks present
NI02.15	V	83	93	10YR 5/6	Sand	Rounded and subrounded rocks present
NI02.16	I	0	26	10YR 3/2	Sandy Loam	A/Ao
NI02.16	II	26	64	10YR 5/4	Sandy Loam	Bw
NI02.16	III	64	96	10YR 5/6	Loamy Sand	BC
NI02.16	IV	96	109	10YR 6/2	Sand	C horizon loose sand and gravel
NI02.17	I	0	17	10YR 4/2	Sandy Loam	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI02.17	II	17	46	10YR 4/6	Sandy Loam	None
NI02.17	III	46	82	10YR 5/3	Sand	None
NI02.17	IV	82	100	10YR 6/4	Sand	None
NI02.19	I	0	25	10YR 4/2	Sandy Loam	None
NI02.19	II	25	52	10YR 4/6	Sandy Loam	None
NI02.19	III	52	90	10YR 5/4	Sand	Rounded and subrounded cobbles
NI02.19	IV	90	100	10YR 6/4	Sand	Sterile subsoil rounded and subrounded gravel and cobbles
NI02.20	I	0	12	10YR 4/1	Sandy Loam	None
NI02.20	II	12	49	10YR 5/6	Sandy Loam	None
NI02.20	III	49	100	10YR 4/6	Sandy Loam	Rounded pebbles
NI02.21	I	0	26	10YR 4/2	Sandy Loam	Modern trash found in strat
NI02.21	II	26	60	10YR 4/6	Sandy Loam	None
NI02.21	III	60	87	10YR 5/3	Sand	Subrounded cobbles
NI02.21	IV	87	100	10YR 6/4	Sand	Rounded and subrounded cobbles
NI02.22	I	0	21	10YR 4/6	Sand	Disturbed push pile
NI02.22	II	21	35	10YR 4/2	Sandy Loam	None
NI02.22	III	35	37	10YR 4/6	Sandy Loam	None
NI02.23	I	0	13	10YR 5/1	Sandy Loam	None
NI02.23	II	13	31	10YR 4/6	Sandy Loam	None
NI02.23	III	31	45	10YR 3/2	Sandy Loam	None
NI02.23	IV	45	100	10YR 5/6	Sand	None
NI02.25	I	0	14	10YR 5/1	Sandy Loam	None
NI02.25	II	14	54	10YR 5/6	Sandy Loam	Rounded pebbles
NI02.25	III	54	73	10YR 4/6	Sandy Loam	Rounded pebbles
NI02.25	IV	73	83	10YR 6/4	Sand	Rounded pebbles
NI02.26	I	0	28	10YR 4/2	Sandy Loam	None
NI02.26	II	28	60	10YR 4/6	Sandy Loam	None
NI02.26	III	60	100	10YR 5/3	Sand	Rounded and subrounded cobbles

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI02.27	I	0	22	10YR 4/2	Sandy Loam	Mixed with 10YR 5/4 LoSa Bw.
NI02.27	II	22	59	10YR 5/4	Loamy Sand	Mixed with 10YR 4/2 A horizon
NI02.27	III	59	100	10YR 5/6	Sand	Loose C horizon coarse sand and gravel
NI02.28	I	0	15	10YR 4/2	Sandy Loam	None
NI02.28	II	15	50	10YR 4/4	Sandy Loam	Dense roots
NI02.28	III	50	77	10YR 5/4	Sand	Rounded and subrounded cobbles. Dense roots and cobbles blocking shovel test
NI02.29	I	0	17	10YR 4/1	Sandy Loam	None
NI02.29	II	17	59	10YR 5/6	Sand	None
NI02.29	III	59	100	10YR 4/4	Sand	Pebbles and cobbles
NI02.30	I	0	10	10YR 4/2	Sandy Loam	None
NI02.30	II	10	38	10YR 4/4	Sandy Loam	None
NI02.30	III	38	69	10YR 4/6	Sand	Subrounded and rounded cobbles
NI02.30	IV	69	100	10YR 5/3	Sand	Subrounded and rounded cobbles
NI02.31	I	0	11	10YR 3/2	Sandy Loam	A/Ao
NI02.31	II	11	52	10YR 5/4	Sandy Loam	Bw
NI02.31	III	52	81	7.5YR 5/4	Loamy Sand	BC
NI02.31	IV	81	100	10YR 5/6	Sand	C horizon loose sand and gravel
NI02.32	I	0	18	10YR 4/1	Sandy Loam	None
NI02.32	II	18	52	10YR 5/6	Sandy Loam	None
NI02.32	III	52	100	10YR 4/6	Sandy Loam	Rounded gravel
NI02.33	I	0	13	10YR 3/2	Sandy Loam	A/Ao
NI02.33	II	13	54	10YR 5/4	Sandy Loam	Bw
NI02.33	III	54	81	7.5YR 5/4	Loamy Sand	BC
NI02.33	IV	81	100	10YR 5/6	Sand	Loose C horizon sand and gravels
NI02.34	I	0	14	10YR 4/2	Sandy Loam	None
NI02.34	II	14	52	10YR 4/6	Sandy Loam	None
NI02.34	III	52	85	10YR 5/3	Sand	Rounded and subrounded cobbles
NI02.34	IV	85	100	10YR 6/4	Sand	Sterile subsoil rounded and subrounded cobbles

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI02.35	I	0	12	10YR 4/2	Sandy Loam	None
NI02.35	II	12	44	10YR 4/4	Sandy Loam	None
NI02.35	III	44	83	10YR 5/3	Sand	Rounded and subrounded cobbles
NI02.35	IV	83	100	10YR 6/4	Sand	Sterile subsoil rounded and subrounded cobbles
NI02.36	I	0	15	10YR 4/1	Sandy Loam	None
NI02.36	II	15	38	10YR 5/6	Sand	None
NI02.36	III	38	100	10YR 4/6	Sand	None
NI02.37	I	0	9	10YR 3/2	Sandy Loam	A/Ao
NI02.37	II	9	42	10YR 5/4	Sandy Loam	Bw
NI02.37	III	42	84	7.5YR 5/4	Loamy Sand	BC
NI02.37	IV	84	105	10YR 5/6	Sand	C horizon loose sand and gravel
NI02.39	I	0	12	10YR 3/2	Sandy Loam	A/Ao
NI02.39	II	12	65	7.5YR 5/6	Sandy Loam	Bw
NI02.39	III	65	85	10YR 5/6	Loamy Sand	BC
NI02.39	IV	85	103	10YR 6/6	Sand	Loose C horizon sand and gravel
NI02.40	I	0	8	10YR 4/3	Sandy Loam	None
NI02.40	II	8	76	10YR 5/6	Sand	None
NI02.40	III	76	100	10YR 4/6	Sand	Rounded cobbles and gravel
NI02.41	I	0	11	10YR 4/2	Sandy Loam	None
NI02.41	II	11	50	10YR 4/4	Sandy Loam	None
NI02.41	III	50	88	10YR 5/3	Sand	Subrounded cobbles
NI02.41	IV	88	100	10YR 6/4	Sand	Sterile subsoil rounded and subrounded cobbles
NI02.42	I	0	13	10YR 4/2	Sandy Loam	None
NI02.42	II	13	60	10YR 4/4	Sandy Loam	None
NI02.42	III	60	88	10YR 5/3	Sand	Rounded and subrounded cobbles
NI02.42	IV	88	100	10YR 6/4	Sand	Rounded and subrounded cobbles sterile subsoil
NI02.43	I	0	9	10YR 3/2	Sandy Loam	A/Ao

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI02.43	II	9	60	10YR 5/4	Sandy Loam	Bw
NI02.43	III	60	88	7.5YR 5/6	Sand	BC
NI02.43	IV	88	100	10YR 6/6	Sand	Loose C horizon sand and gravel
NI02.44	I	0	19	10YR 5/1	Sandy Loam	None
NI02.44	II	19	52	10YR 6/4	Sandy Loam	None
NI02.44	III	52	100	10YR 5/6	Sand	None
NI02.45	I	0	16	10YR 4/2	Sandy Loam	None
NI02.45	II	16	44	10YR 4/4	Sandy Loam	None
NI02.45	III	44	88	10YR 5/3	Sand	Rounded and subrounded cobbles
NI02.45	IV	88	100	10YR 6/4	Sand	Sterile subsoil with rounded and subrounded cobbles
NI02.46	I	0	13	10YR 3/2	Sandy Loam	A/Ao
NI02.46	II	13	43	10YR 5/4	Sandy Loam	Bw
NI02.46	III	43	72	10YR 5/8	Sandy Loam	Bw
NI02.46	IV	72	93	10YR 5/6	Loamy Sand	BC
NI02.46	V	93	100	10YR 6/6	Sand	Loose C horizon sand and gravel
NI02.47	I	0	12	10YR 5/1	Sandy Loam	None
NI02.47	II	12	61	10YR 5/6	Sandy Loam	None
NI02.47	III	61	100	10YR 4/6	Sand	None
NI02.48	I	0	8	10YR 4/1	Sandy Loam	A horizon
NI02.48	II	8	12	10YR 5/1	Sandy Loam	E horizon
NI02.48	III	12	45	10YR 5/4	Sandy Loam	None
NI02.48	IV	45	87	10YR 5/6	Sandy Loam	None
NI02.48	V	87	100	10YR 6/6	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
NI02.49	I	0	12	10YR 4/1	Sandy Loam	A
NI02.49	II	12	17	10YR 5/1	Sandy Loam	Ae
NI02.49	III	17	52	10YR 5/4	Loamy Sand	B1
NI02.49	IV	52	80	10YR 5/6	Loamy Sand	B2
NI02.50	I	0	10	10YR 4/1	Sandy Loam	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI02.50	II	10	15	10YR 5/1	Sandy Loam	None
NI02.50	III	15	38	10YR 5/4	Sandy Loam	None
NI02.50	IV	38	50	10YR 5/6	Sandy Loam	Ended for compaction. Very close to guardrail.
NI02.51	I	0	9	10YR 4/1	Sandy Loam	Fill modern trash present not collected
NI02.51	II	9	20	10YR 4/2	Sandy Loam	Fill modern trash present not collected
NI02.51	III	20	25	10YR 5/3	Loamy Sand	Buried A
NI02.51	IV	25	45	10YR 5/4	Loamy Sand	B1 extremely compacted
NI02.52	I	0	7	10YR 4/1	Sandy Loam	None
NI02.52	II	7	20	10YR 5/4	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
NI02.52	III	20	40	10YR 5/6	Sand	Very rocky (well rounded, rounded, and sub rounded), ended for compaction.
NI02.53	I	0	6	10YR 4/1	Sandy Loam	None
NI02.53	II	6	10	10YR 5/1	Sandy Loam	None
NI02.53	III	10	57	10YR 5/4	Sandy Loam	Very rocky (well rounded, rounded, and sub rounded), very compact, ended for rocky impasse.
NI02.54	I	0	8	10YR 4/1	Sandy Loam	A
NI02.54	II	8	12	10YR 5/1	Sandy Loam	Ae
NI02.54	III	12	42	10YR 5/4	Loamy Sand	B1
NI02.54	IV	42	73	10YR 5/6	Loamy Sand	B2
NI02.54	V	73	100	10YR 6/4	Sandy Loam	C
NI02.55	I	0	14	10YR 4/2	Sandy Loam	None
NI02.55	II	14	38	10YR 4/6	Sandy Loam	None
NI02.55	III	38	84	10YR 5/3	Sand	Rounded and subrounded cobbles
NI02.55	IV	84	100	10YR 6/4	Sand	Rounded and subrounded cobbles
NI02.56	I	0	10	10YR 4/1	Sandy Loam	A compacted
NI02.56	II	10	37	10YR 5/4	Sandy Loam	B1
NI02.56	III	37	60	10YR 5/4	Sand	B2

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI02.56	IV	60	80	10YR 6/3	Sand	C
NI02.57	I	0	17	10YR 3/3	Sandy Loam	None
NI02.57	II	17	50	10YR 5/4	Sandy Loam	Very rocky (well rounded , rounded, and sub rounded), very compact, ended for compaction impasse.
NI02.58	I	0	12	10YR 4/2	Sandy Loam	None
NI02.58	II	12	35	10YR 4/6	Sandy Loam	None
NI02.58	III	35	65	10YR 5/3	Sand	Rounded and subrounded cobbles
NI02.58	IV	65	75	10YR 6/4	Sand	Rounded and subrounded cobbles
NI02.59	I	0	12	10YR 4/2	Sandy Loam	A compact
NI02.59	II	12	45	10YR 5/4	Sandy Loam	B1 compacted
NI02.59	III	45	74	10YR 5/6	Loamy Sand	B2
NI02.59	IV	74	86	10YR 6/4	Sand	C
NI02.60	I	0	12	10YR 4/2	Sandy Loam	Fill modern trash present not collected
NI02.60	II	12	20	10YR 4/3	Sandy Loam	Buried A
NI02.60	III	20	54	10YR 5/4	Loamy Sand	B1
NI02.60	IV	54	84	10YR 5/6	Loamy Sand	B2
NI02.60	V	84	100	10YR 6/4	Sand	C
NI02.61	I	0	17	10YR 4/1	Sandy Loam	Fill modern trash present not collected
NI02.61	II	17	30	10YR 5/4	Sandy Loam	B1 extremely compacted
NI02.62	I	0	5	10YR 4/1	Sandy Loam	None
NI02.62	II	5	10	10YR 5/1	Sandy Loam	None
NI02.62	III	10	63	10YR 5/6	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
NI02.62	IV	63	86	10YR 6/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded).
NI02.63	I	0	16	10YR 4/2	Sandy Loam	Overburden
NI02.63	II	16	18	10YR 3/2	Sandy Loam	Buried A
NI02.63	III	18	20	10YR 5/1	Sandy Loam	Ae
NI02.63	IV	20	76	10YR 5/4	Loamy Sand	B1/B2 compacted

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI02.63	V	76	88	10YR 6/4	Sand	C
NI02.64	I	0	15	10YR 4/2	Sandy Loam	None
NI02.64	II	15	42	10YR 4/6	Sandy Loam	None
NI02.64	III	42	82	10YR 5/3	Sand	Rounded and subrounded cobbles
NI02.64	IV	82	100	10YR 6/4	Sand	Rounded and subrounded cobbles
NI02.66	I	0	6	10YR 3/2	Sandy Loam	None
NI02.66	II	6	12	10YR 5/1	Sandy Loam	None
NI02.66	III	12	70	10YR 5/6	Sandy Loam	Very rocky (well rounded, rounded, and sub rounded)
NI02.66	IV	70	82	10YR 6/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
NI02.67	I	0	7	10YR 4/1	Sandy Loam	Overburden
NI02.67	I	0	7	10YR 4/1	Sandy Loam	Overburden
NI02.67	I	0	7	10YR 4/1	Sandy Loam	Overburden
NI02.67	II	7	15	7.5YR 4/2	Sandy Loam	A
NI02.67	II	7	15	7.5YR 4/2	Sandy Loam	A
NI02.67	II	7	15	7.5YR 4/2	Sandy Loam	A
NI02.67	III	15	75	10YR 5/4	Loamy Sand	B1
NI02.67	III	15	75	10YR 5/4	Loamy Sand	B1
NI02.67	III	15	75	10YR 5/4	Loamy Sand	B1
NI02.67	IV	75	86	10YR 5/6	Sand	B2
NI02.67	IV	75	86	10YR 5/6	Sand	B2
NI02.67	IV	75	86	10YR 5/6	Sand	B2
NI02.67	V	86	100	10YR 6/4	Sand	C
NI02.67	V	86	100	10YR 6/4	Sand	C
NI02.67	V	86	100	10YR 6/4	Sand	C
NI02.68	I	0	15	10YR 4/2	Sandy Loam	None
NI02.68	II	15	42	10YR 4/6	Sandy Loam	Rounded and subrounded cobbles compacted and rock impasse
NI02.69	I	0	15	10YR 4/2	Sandy Loam	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI02.69	II	15	40	10YR 4/6	Sandy Loam	None
NI02.69	III	40	88	10YR 5/3	Sand	Rounded and subrounded cobbles
NI02.69	IV	88	100	10YR 6/4	Sand	Rounded and subrounded cobbles
NI02.70	I	0	13	10YR 4/1	Sandy Loam	None
NI02.70	II	13	46	10YR 5/4	Sandy Loam	None
NI02.70	III	46	80	10YR 5/6	Sandy Loam	Rocks and gravel present (rounded)
NI02.70	IV	80	100	10YR 6/6	Sandy Loam	Ended for meter deep.
NI02.71	I	0	9	10YR 4/2	Sandy Loam	A
NI02.71	II	9	17	10YR 5/1	Sandy Loam	Ae
NI02.71	III	17	45	10YR 5/4	Loamy Sand	None
NI02.71	IV	45	86	10YR 5/6	Sand	B2
NI02.71	V	86	100	10YR 6/4	Sand	C
NI02.72	I	0	10	10YR 4/2	Sandy Loam	None
NI02.72	II	10	42	10YR 4/6	Sandy Loam	None
NI02.72	III	42	87	10YR 5/3	Sand	Rounded and sub rounded cobbles
NI02.72	IV	87	100	10YR 6/4	Sand	Rounded and subrounded cobbles sterile subsoil
NI02.73	I	0	16	10YR 4/2	Sandy Loam	Overburden
NI02.73	II	16	43	10YR 5/4	Sandy Loam	Rocks and gravel present (sub rounded and sub angular), ended for compaction impasse.
NI02.74	I	0	38	10YR 5/4	Sandy Loam	Truncated B1- extremely compacted
NI02.74	II	38	68	10YR 5/6	Loamy Sand	B2- extremely compacted
NI02.75	I	0	9	10YR 4/1	Sandy Loam	None
NI02.75	II	9	77	10YR 5/4	Sandy Loam	Ended for root impasse.
NI02.76	I	0	15	10YR 4/2	Sandy Loam	Overburden
NI02.76	I	0	15	10YR 4/2	Sandy Loam	Overburden
NI02.76	II	15	38	10YR 5/4	Sandy Loam	B1
NI02.76	II	15	38	10YR 5/4	Sandy Loam	B1
NI02.76	III	38	89	10YR 5/6	Loamy Sand	B2
NI02.76	III	38	89	10YR 5/6	Loamy Sand	B2

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI02.76	IV	89	100	10YR 6/4	Sand	C
NI02.76	IV	89	100	10YR 6/4	Sand	C
NI02.77	I	0	12	10YR 4/2	Sandy Loam	A
NI02.77	II	12	32	10YR 5/4	Sandy Loam	Bw
NI02.77	III	32	74	7.5YR 5/4	Loamy Sand	BC
NI02.77	IV	74	100	10YR 6/6	Sand	Loose C horizon sand and gravel
NI02.78	I	0	13	10YR 4/2	Sandy Loam	None
NI02.78	II	13	48	10YR 5/4	Sandy Loam	None
NI02.78	III	48	75	10YR 5/6	Sand	None
NI02.78	IV	75	90	10YR 6/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
NI02.79	I	0	15	10YR 4/2	Sandy Loam	Fill asphalt and modern trash present not collected
NI02.79	II	15	45	10YR 5/4	Sandy Loam	B1
NI02.79	III	45	86	10YR 5/6	Loamy Sand	B2
NI02.79	IV	86	100	10YR 6/4	Sand	C
NI02.80	I	0	14	10YR 4/2	Sandy Loam	A
NI02.80	II	14	57	10YR 5/4	Loamy Sand	Bw
NI02.80	III	57	86	7.5YR 5/4	Loamy Sand	BC
NI02.80	IV	86	100	10YR 6/2	Sand	C horizon loose sand and gravel
NI02.81	I	0	5	10YR 4/2	Sandy Loam	Overburden
NI02.81	II	5	46	10YR 5/4	Sandy Loam	None
NI02.81	III	46	82	10YR 5/6	Sand	None
NI02.81	IV	82	100	10YR 6/4	Sand	Very rocky (well rounded, rounded, and sub rounded)
NI02.82	I	0	6	10YR 4/2	Sandy Loam	A
NI02.82	II	6	43	10YR 5/4	Sandy Loam	Be
NI02.82	III	43	72	7.5YR 5/4	Loamy Sand	BC
NI02.82	IV	72	100	10YR 6/2	Sand	Chorizos loose sand and gravel
NI02.83	I	0	10	10YR 4/2	Sandy Loam	A

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI02.83	II	10	36	10YR 5/4	Loamy Sand	Bw
NI02.83	III	36	71	7.5YR 5/4	Loamy Sand	BC
NI02.83	IV	71	100	10YR 6/2	Sand	Chorizos loose sand and gravel
NI02.85	I	0	12	10YR 4/2	Sandy Loam	A
NI02.85	II	12	78	10YR 5/4	Sandy Loam	Bw
NI02.85	III	78	100	10YR 6/6	Sand	C horizon loose sand and gravel
NI02.86	I	0	9	10YR 4/2	Sandy Loam	Fill
NI02.86	II	9	44	10YR 5/4	Sandy Loam	B1
NI02.86	III	44	86	10YR 5/6	Loamy Sand	B2
NI02.86	IV	86	100	7.5YR 6/4	Sand	C
NI02.87	I	0	9	10YR 4/2	Sandy Loam	Rounded and subrounded rocks present
NI02.87	II	9	48	10YR 5/4	Sandy Loam	Rounded and subrounded rocks present
NI02.87	III	48	87	10YR 5/6	Sand	Rounded and subrounded rocks present
NI02.87	IV	87	100	10YR 6/4	Sand	Many rounded and subrounded rocks present
NI02.88	I	0	15	10YR 4/2	Sandy Loam	A horizon
NI02.88	II	15	54	10YR 5/4	Sandy Loam	Bw, test ended at wire in base of hole
NI02.89	I	0	25	10YR 5/2	Sandy Loam	None
NI02.89	II	25	46	10YR 5/6	Sandy Loam	None
NI02.89	III	46	100	10YR 5/4	Sandy Loam	None
NI02.90	I	0	40	10YR 4/2	Sandy Loam	Banded fill mixed with 5/4 sand and asphalt.
NI02.90	II	40	45	10YR 5/2	Sandy Loam	Buried A
NI02.90	III	45	70	10YR 5/4	Sandy Loam	None
NI02.90	IV	70	100	10YR 5/6	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), near guard rail, ended for meter deep.
NI02.91	I	0	15	10YR 4/2	Sandy Loam	Overburden with glass
NI02.91	II	15	38	10YR 5/6	Sandy Loam	Fill with glass throughout, compaction impasse
NI02.93	I	0	13	10YR 4/2	Sandy Loam	A
NI02.93	II	13	91	10YR 5/4	Sandy Loam	Bw

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI02.93	III	91	100	10YR 6/2	Sand	C horizon loose sand and gravel
NI02.94	I	0	13	10YR 5/2	Sandy Loam	None
NI02.94	II	13	77	10YR 5/6	Sand	None
NI02.94	III	77	100	10YR 6/4	Sand	None
NI02.95	I	0	12	10YR 4/2	Sandy Loam	A
NI02.95	II	12	78	10YR 5/4	Loamy Sand	Bw
NI02.95	III	78	100	10YR 6/4	Sand	C horizon loose sand and gravel
NI02.96	I	0	20	10YR 4/2	Sandy Loam	Fill
NI02.96	I	0	19	10YR 4/2	Sandy Loam	None
NI02.96	II	20	65	10YR 5/4	Loamy Sand	B1
NI02.96	II	19	56	10YR 5/4	Sandy Loam	Rounded and subrounded rocks present
NI02.96	III	65	84	10YR 5/6	Loamy Sand	B2
NI02.96	III	56	90	10YR 5/6	Sand	Rounded and subrounded rocks present
NI02.96	IV	84	100	7.5YR 5/4	Sand	C
NI02.96	IV	90	100	10YR 6/4	Sand	Rounded and subrounded rocks present
NI02.97	I	0	14	10YR 4/2	Sandy Loam	Overburden
NI02.97	II	14	50	10YR 5/4	Sandy Loam	None
NI02.97	III	50	80	10YR 5/6	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
NI02.97	IV	80	100	10YR 6/4	Sand	Very rocky (well rounded, rounded, and sub rounded), ended for meter deep.
NI02.98	I	0	9	10YR 4/2	Sandy Loam	None
NI02.98	II	9	52	10YR 5/4	Sand	None
NI02.98	III	52	84	10YR 5/6	Sand	Very rocky (well rounded, rounded, and sub rounded)
NI02.98	IV	84	100	10YR 6/3	Sand	None
NI02.99	I	0	22	10YR 5/2	Sandy Loam	None
NI02.99	II	22	72	10YR 5/6	Sand	None
NI02.99	III	72	100	10YR 6/4	Sand	None
NI0265	I	0	12	10YR 4/1	Sandy Loam	A

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI0265	II	12	42	10YR 5/4	Sandy Loam	B1
NI0265	III	42	68	10YR 5/6	Loamy Sand	B2
NI0265	IV	68	78	10YR 6/4	Sand	C
NI03.01	I	0	23	10YR 4/2	Sandy Loam	Overburden
NI03.01	II	23	52	10YR 5/4	Sandy Loam	None
NI03.01	III	52	80	10YR 5/6	Sand	Very rocky (well rounded, rounded, and sub rounded)
NI03.01	IV	80	100	10YR 6/3	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
NI03.02	I	0	12	10YR 4/2	Sandy Loam	Fill with glass and plastic
NI03.02	II	12	60	10YR 4/6	Loamy Sand	B1
NI03.02	III	60	90	10YR 5/6	Sand	B2
NI03.02	IV	90	100	10YR 6/3	Sand	Oxidized coarse sand subsoil
NI03.03	I	0	19	10YR 4/4	Sandy Loam	None
NI03.03	II	19	33	10YR 3/3	Sandy Loam	None
NI03.03	III	33	85	10YR 5/3	Sand	Rounded and subrounded cobbles
NI03.03	IV	85	100	10YR 6/4	Sand	Rounded and subrounded cobbles
NI03.04	I	0	18	10YR 4/2	Sandy Loam	Rounded and subrounded rocks present
NI03.04	II	18	51	10YR 5/4	Sandy Loam	Rounded and subrounded rocks present
NI03.05	I	0	7	10YR 2/2	Sandy Loam	None
NI03.05	II	7	13	10YR 5/1	Sand	None
NI03.05	III	13	36	10YR 5/6	Sand	None
NI03.05	IV	36	66	10YR 6/4	Sandy Loam	Root impasse, located between several trees.
NI03.06	I	0	12	10YR 5/2	Sandy Loam	None
NI03.06	II	12	65	10YR 5/4	Sandy Loam	None
NI03.06	III	65	100	10YR 6/4	Sandy Loam	None
NI03.07	I	0	10	10YR 4/3	Sandy Loam	A
NI03.07	II	10	68	10YR 4/6	Sandy Loam	B1
NI03.07	III	68	89	10YR 5/6	Loamy Sand	B2
NI03.07	IV	89	100	10YR 6/2	Sand	Medium sand subsoil

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI03.08	I	0	12	10YR 3/3	Sandy Loam	None
NI03.08	II	12	42	10YR 4/4	Sandy Loam	None
NI03.08	III	42	85	10YR 5/3	Sand	Rounded and subrounded cobbles
NI03.08	IV	85	100	10YR 6/4	Sand	Sterile subsoil and rounded and subrounded cobbles
NI03.09	I	0	6	10YR 4/1	Sandy Loam	A
NI03.09	II	6	11	10YR 5/1	Sandy Loam	Ae
NI03.09	III	11	42	10YR 5/4	Loamy Sand	B1
NI03.09	IV	42	87	10YR 5/6	Loamy Sand	B2
NI03.09	V	87	100	10YR 6/4	Sand	C
NI03.10	I	0	19	10YR 4/4	Sandy Loam	None
NI03.10	II	19	46	10YR 4/6	Sandy Loam	None
NI03.10	III	46	88	10YR 5/3	Sand	Rounded and subrounded cobbles
NI03.10	IV	88	100	10YR 6/4	Sand	Rounded and subrounded cobbles sterile subsoil
NI03.11	I	0	7	10YR 2/2	Sandy Loam	None
NI03.11	II	7	10	10YR 5/1	Sandy Loam	None
NI03.11	III	10	58	10YR 5/4	Sandy Loam	None
NI03.11	IV	58	90	10YR 5/6	Sand	None
NI03.11	V	90	100	10YR 6/3	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
NI03.12	I	0	15	10YR 5/2	Sandy Loam	None
NI03.12	II	15	73	10YR 5/4	Sand	None
NI03.12	III	73	100	10YR 6/4	Sand	None
NI03.13	I	0	9	10YR 4/2	Sandy Loam	None
NI03.13	II	9	57	10YR 5/3	Sand	Rounded and subrounded rocks present, fill
NI03.13	III	57	78	10YR 5/6	Sand	Rounded and subrounded rocks present, excavation impasse for large rock
NI03.14	I	0	31	10YR 4/2	Sandy Loam	Rounded and subrounded rocks present, large amounts of modern trash.

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI03.14	II	31	100	10YR 5/3	Sandy Loam	Rounded and subrounded rocks present
NI03.15	I	0	13	10YR 5/2	Sandy Loam	None
NI03.15	II	13	32	10YR 5/6	Sandy Loam	None
NI03.16	I	0	18	10YR 4/2	Sandy Loam	Fill
NI03.16	II	18	48	10YR 6/4	Sandy Loam	Compacted B
NI03.16	III	48	67	10YR 5/6	Loamy Sand	Extremely compacted B2 with impasse at 67
NI03.17	I	0	9	10YR 4/2	Sandy Loam	Fill
NI03.17	II	9	42	10YR 6/4	Loamy Sand	Extremely compacted fill layer with impasse at 42cmbs
NI03.18	I	0	7	10YR 3/3	Sandy Loam	None
NI03.18	II	7	14	10YR 5/1	Sandy Loam	None
NI03.18	III	14	56	10YR 5/4	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for root impasse.
NI03.19	I	0	10	10YR 5/2	Sandy Loam	None
NI03.19	II	10	53	10YR 5/4	Sandy Loam	None
NI03.19	III	53	100	10YR 5/3	Sand	None
NI03.20	I	0	11	10YR 5/2	Sandy Loam	A
NI03.20	II	11	56	10YR 5/4	Sandy Loam	B1
NI03.20	III	56	68	10YR 5/6	Loamy Sand	B2
NI03.21	I	0	11	10YR 4/2	Sandy Loam	None
NI03.21	II	11	25	10YR 5/3	Sandy Loam	Rounded and subrounded rocks present
NI03.21	III	25	80	10YR 5/4	Sand	Rounded and subrounded rocks present
NI03.21	IV	80	90	10YR 6/4	Sand	Rounded and subrounded rocks present
NI03.22	I	0	7	10YR 4/2	Sandy Loam	Developing A
NI03.22	II	7	50	10YR 6/4	Sandy Loam	B1
NI03.22	III	50	80	10YR 5/6	Loamy Sand	B2
NI03.22	IV	80	100	10YR 6/2	Sand	Coarse sand subsoil
NI03.23	I	0	12	10YR 5/2	Sandy Loam	None
NI03.23	II	12	42	10YR 5/4	Sandy Loam	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI03.23	III	42	100	10YR 4/6	Sand	None
NI03.24	I	0	9	10YR 3/3	Sandy Loam	A horizon
NI03.24	II	9	13	10YR 5/1	Sandy Loam	E horizon
NI03.24	III	13	42	10YR 5/4	Sandy Loam	None
NI03.24	IV	42	86	10YR 5/6	Sandy Loam	None
NI03.24	V	86	100	10YR 6/4	Sand	Very rocky (well rounded, rounded, and sub rounded), ended for meter deep.
NI03.25	I	0	10	10YR 5/1	Sandy Loam	None
NI03.25	II	10	40	10YR 5/3	Sandy Loam	Rounded and subrounded rocks present
NI03.25	III	40	85	10YR 5/4	Sand	Rounded and subrounded rocks present
NI03.25	IV	85	95	10YR 6/4	Sand	Rounded and subrounded rocks present
NI03.26	I	0	19	10YR 4/2	Sandy Loam	A
NI03.26	II	19	42	10YR 5/4	Sandy Loam	B1
NI03.26	III	42	63	10YR 5/6	Loamy Sand	B2
NI03.27	I	0	6	10YR 3/3	Sandy Loam	None
NI03.27	II	6	11	10YR 5/1	Sandy Loam	None
NI03.27	III	11	56	10YR 5/4	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
NI03.27	IV	56	100	10YR 5/6	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for meter deep.
NI03.28	I	0	10	10YR 4/2	Sandy Loam	Fill
NI03.28	II	10	64	10YR 6/4	Sandy Loam	Redeposited soil mixed with 10YR 5/6
NI03.28	III	64	84	10YR 6/2	Sand	Coarse sand subsoil
NI03.29	I	0	15	10YR 5/2	Sandy Loam	None
NI03.29	II	15	58	10YR 4/6	Sandy Loam	None
NI03.29	III	58	87	10YR 5/3	Sand	Sub rounded and rounded gravel
NI03.29	IV	87	100	10YR 6/4	Sand	Sub rounded and rounded gravel
NI03.30	I	0	14	10YR 4/2	Sandy Loam	Overburden

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI03.30	II	14	33	10YR 5/4	Sandy Loam	Very compact, close to guard rail. Ended for compaction impasse.
NI03.31	I	0	8	10YR 4/2	Sandy Loam	None
NI03.31	II	8	60	10YR 5/6	Sandy Loam	Sub rounded and rounded gravel
NI03.31	III	60	100	10YR 5/4	Sand	Sub rounded and rounded gravel
NI03.32	I	0	18	10YR 4/2	Sandy Loam	Fill
NI03.32	I	0	12	10YR 4/2	Sandy Loam	None
NI03.32	II	18	36	10YR 6/4	Sandy Loam	Extremely compact redeposited soil leading to impasse
NI03.32	II	12	55	10YR 4/4	Sandy Loam	Rounded and subrounded rocks present, excavation impasse for significant compaction
NI03.33	I	0	27	10YR 4/3	Sandy Loam	Fill modern trash present not collected
NI03.33	II	27	62	10YR 5/4	Loamy Sand	B1
NI03.34	I	0	4	10YR 5/2	Sandy Loam	None
NI03.34	II	4	21	10YR 5/6	Sandy Loam	None
NI03.36	I	0	4	10YR 4/2	Sandy Loam	None
NI03.36	II	4	15	10YR 4/6	Sandy Loam	Very compact stopped for compaction
NI03.37	I	0	6	10YR 4/2	Sandy Loam	Dev A
NI03.37	II	6	65	10YR 6/4	Sandy Loam	Redeposited soil; compact
NI03.37	III	65	90	10YR 6/2	Sand	Coarse sand subsoil
NI03.38	I	0	6	10YR 4/2	Sandy Loam	Overburden
NI03.38	II	6	65	10YR 5/4	Sandy Loam	Very rocky (well rounded, rounded, and sub rounded), very compacted. Ended for rocky impasse.
NI03.39	I	0	9	10YR 3/2	Sandy Loam	Dev A modern plastic not collected
NI03.39	II	9	48	10YR 6/4	Loamy Sand	Mottled B1/B2 10 YR 5/4 fill
NI03.40	I	0	14	10YR 4/2	Sandy Loam	None
NI03.40	II	14	44	10YR 5/6	Sandy Loam	None
NI03.40	III	44	75	10YR 5/3	Sandy Loam	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI03.40	IV	75	100	10YR 6/4	Sand	None
NI03.41	I	0	12	10YR 4/2	Sandy Loam	Rounded and subrounded rocks present
NI03.41	II	12	46	10YR 4/4	Sandy Loam	Rounded and subrounded rocks present, excavation impasse for significant compaction
Ni0108	I	0	12	10YR 4/2	Loamy Sand	Overburden
Ni0108	II	12	42	10YR 4/6	Loamy Sand	B1
Ni0108	III	42	70	10YR 5/4	Sand	None
Ni0108	IV	70	84	10YR 6/3	Sand	C
SC01.01	I	0	46	10YR 4/2	Loamy Sand	Fill asphalt and modern trash present not collected
SC01.02	I	0	22	10YR 4/2	Sandy Loam	None
SC01.02	II	22	44	10YR 5/4	Sandy Loam	None
SC01.02	III	44	100	10YR 4/4	Sandy Loam	None
SC01.03	I	0	8	10YR 3/2	Sandy Loam	None
SC01.03	II	8	25	10YR 4/1	Sandy Loam	None
SC01.03	III	25	75	10YR 5/4	Sand	Very rocky (well rounded, rounded, and sub rounded), and very compact. Ended for rocky impasse.
SC01.04	I	0	24	10YR 4/2	Sandy Loam	A
SC01.04	II	24	60	10YR 5/6	Loamy Sand	B1
SC01.04	III	60	75	7.5YR 6/4	Sand	B2
SC01.04	IV	75	85	7.5YR 6/2	Sand	Coarse sand subsoil with cobbles
SC01.05	I	0	24	10YR 4/1	Sandy Loam	None
SC01.05	II	24	80	10YR 5/6	Sandy Loam	Compacted
SC01.05	III	80	89	10YR 4/6	Sandy Loam	None
SC01.05	IV	89	100	10YR 7/1	Sand	None
SC01.06	I	0	21	10YR 4/2	Sandy Loam	None
SC01.06	II	21	43	10YR 5/3	Sandy Loam	None
SC01.06	III	43	84	10YR 4/4	Sand	Rounded and subrounded cobbles and gravel

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
SC01.06	IV	84	100	10YR 4/6	Sand	Subrounded and rounded cobbles and gravel
SC01.07	I	0	20	10YR 4/2	Sandy Loam	None
SC01.07	II	20	36	10YR 4/4	Sandy Loam	Rounded and subrounded rocks present
SC01.07	III	36	75	10YR 5/4	Sand	Rounded and subrounded rocks present
SC01.07	IV	75	100	10YR 5/6	Sand	Rounded and subrounded rocks present
SC01.08	I	0	10	10YR 3/2	Sandy Loam	None
SC01.08	II	10	21	10YR 4/1	Sandy Loam	None
SC01.08	III	21	67	10YR 5/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
SC01.08	IV	67	100	10YR 5/6	Sand	Ended for meter deep.
SC01.09	I	0	33	10YR 4/2	Sandy Loam	Fill asphalt and modern trash present not collected
SC01.09	II	33	74	10YR 5/4	Loamy Sand	B1
SC01.09	III	74	80	10YR 5/6	Loamy Sand	B2
SC01.09	IV	80	100	7.5YR 5/4	Sand	C
SC01.10	I	0	17	10YR 4/2	Sandy Loam	None
SC01.10	II	17	40	10YR 5/3	Sandy Loam	None
SC01.10	III	40	75	10YR 4/4	Sand	Rounded and subrounded cobbles and gravel
SC01.10	IV	75	100	10YR 4/6	Sand	Very rocky rounded and subrounded cobbles and gravel
SC01.11	I	0	11	10YR 3/4	Sandy Loam	O horizon
SC01.11	II	11	31	10YR 4/2	Sandy Loam	Rounded and subrounded rocks present
SC01.11	III	31	70	10YR 5/4	Sand	Rounded and subrounded rocks present
SC01.11	IV	70	100	10YR 5/6	Sand	Rounded and subrounded rocks present
SI01.01	I	0	30	10YR 7/1	Sand	Fill
SI01.01	II	30	72	10YR 4/6	Sand	B1
SI01.01	III	72	85	10YR 5/6	Sand	B2
SI01.01	IV	85	95	10YR 6/6	Sand	C
SI01.02	I	0	11	10YR 4/2	Sandy Loam	Rounded and subrounded rocks present
SI01.02	II	11	22	10YR 5/3	Sandy Loam	Rounded and subrounded rocks present

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
SI01.02	III	22	70	10YR 5/4	Sand	Many Rounded and subrounded rocks present
SI01.02	IV	70	80	10YR 6/3	Sand	Many rounded and subrounded rocks present
SI01.03	I	0	17	10YR 4/2	Sandy Loam	A
SI01.03	II	17	62	10YR 5/4	Sandy Loam	Bw
SI01.03	III	62	83	10YR 6/6	Sand	BC
SI01.03	IV	83	95	10YR 6/2	Sand	C horizon loose sand and gravel
SI01.04	I	0	12	10YR 4/2	Sandy Loam	None
SI01.04	II	12	42	10YR 5/4	Sandy Loam	None
SI01.04	III	42	63	10YR 5/6	Sand	None
SI01.04	IV	63	73	10YR 6/4	Sand	None
SI01.05	I	0	12	10YR 4/2	Sand	Dev A
SI01.05	II	12	73	10YR 5/6	Sand	B1
SI01.05	III	73	90	10YR 5/4	Sand	B2
SI01.05	IV	90	100	10YR 6/2	Sand	Coarse sand subsoil with cobbles
SI01.06	I	0	6	10YR 3/1	Loamy Sand	Dev A
SI01.06	II	6	50	10YR 5/4	Loamy Sand	B1
SI01.06	III	50	82	10YR 5/6	Loamy Sand	B2
SI01.06	IV	82	102	10YR 6/6	Sand	C
SI01.07	I	0	11	10YR 4/2	Sandy Loam	None
SI01.07	II	11	44	10YR 5/4	Sandy Loam	None
SI01.07	III	44	75	10YR 5/6	Sandy Loam	None
SI01.07	IV	75	85	10YR 6/4	Sand	None
SI01.08	I	0	10	10YR 4/2	Sandy Loam	Overburden
SI01.08	II	10	70	10YR 5/6	Sand	None
SI01.08	III	70	80	10YR 6/3	Sand	Very rocky (well rounded, rounded, and sub rounded)
SI01.09	I	0	13	10YR 4/2	Sandy Loam	None
SI01.09	II	13	32	10YR 4/3	Sandy Loam	None
SI01.09	III	32	100	10YR 5/4	Sand	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
SI01.10	I	0	19	10YR 4/2	Sandy Loam	Fill
SI01.10	II	19	58	10YR 5/4	Loamy Sand	B1
SI01.10	III	58	71	10YR 5/6	Loamy Sand	B2
SI01.10	IV	71	82	10YR 6/4	Sand	C
SI01.11	I	0	8	10YR 5/2	Sandy Loam	None
SI01.11	II	8	45	10YR 5/4	Sandy Loam	None
SI01.11	III	45	73	10YR 6/4	Sandy Loam	None
SI01.11	IV	73	83	10YR 6/4	Sand	None
SI01.12	I	0	10	10YR 4/2	Sandy Loam	Fill
SI01.12	II	10	40	10YR 5/6	Sand	Compact sand B1
SI01.12	III	40	60	10YR 5/4	Sand	B2
SI01.12	IV	60	70	10YR 6/2	Sand	Sand subsoil
SI01.13	I	0	10	10YR 4/2	Sandy Loam	Overburden
SI01.13	II	10	40	10YR 5/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for wasps.
SI01.14	I	0	7	10YR 4/2	Sandy Loam	None
SI01.14	II	7	17	10YR 4/6	Sandy Loam	None
SI01.16	I	0	10	10YR 4/2	Sandy Loam	None
SI01.16	II	10	65	10YR 5/4	Sandy Loam	Rounded and subrounded rocks present
SI01.16	III	65	100	10YR 5/6	Sand	Rounded and subrounded rocks present
SI01.17	I	0	14	10YR 4/2	Sandy Loam	None
SI01.17	II	14	46	10YR 5/4	Sandy Loam	Rounded and subrounded cobbles
SI01.17	III	46	62	10YR 4/6	Sand	Rounded and subrounded cobbles, large cobble blocking shovel test
SI01.18	I	0	14	10YR 4/2	Sandy Loam	Fill
SI01.18	I	0	10	10YR 4/2	Sandy Loam	Fill
SI01.18	II	14	42	10YR 5/4	Loamy Sand	B1
SI01.18	II	10	48	10YR 5/6	Sand	B1, extremely compact leading to impasse at 48
SI01.18	III	42	56	10YR 5/6	Loamy Sand	B2

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
SI01.18	IV	56	66	10YR 6/4	Sand	C
SI01.19	I	0	13	10YR 4/2	Sandy Loam	Fill
SI01.19	II	13	50	10YR 5/4	Loamy Sand	B1
SI01.20	I	0	9	10YR 4/2	Sandy Loam	None
SI01.20	II	9	46	10YR 5/4	Sandy Loam	None
SI01.20	III	46	74	10YR 5/3	Sand	Rounded and sub rounded cobbles
SI01.20	IV	74	84	10YR 6/4	Sand	Rounded and sub rounded cobbles sterile subsoil
SI01.21	I	0	16	10YR 4/2	Sandy Loam	None
SI01.21	II	16	50	10YR 5/4	Sandy Loam	Very compact, ended for compaction impasse.
SI01.22	I	0	12	10YR 4/2	Sandy Loam	Fill
SI01.22	II	12	53	10YR 5/6	Loamy Sand	B1
SI01.22	III	53	80	10YR 5/4	Sand	B2
SI01.22	IV	80	90	10YR 6/2	Sand	Sandy subsoil
SI01.23	I	0	19	10YR 4/2	Sandy Loam	None
SI01.23	II	19	63	10YR 4/4	Sandy Loam	Rounded and subrounded rocks present
SI01.23	III	63	93	10YR 5/6	Sand	Rounded and subrounded rocks present
SI01.23	IV	93	100	10YR 6/4	Sand	Rounded and subrounded rocks present
SI01.24	I	0	17	10YR 4/2	Sandy Loam	Fill
SI01.24	II	17	100	10YR 5/6	Loamy Sand	Redeposited B soil
SI01.25	I	0	12	10YR 4/2	Sandy Loam	None
SI01.25	II	12	32	10YR 4/4	Sandy Loam	Banded fill
SI01.25	III	32	51	10YR 5/4	Sandy Loam	None
SI01.25	IV	51	66	10YR 4/6	Sandy Loam	None
SI02.01	I	0	10	10YR 4/2	Sandy Loam	None
SI02.01	II	10	30	10YR 5/3	Sandy Loam	Rounded and subrounded rocks present
SI02.01	III	30	90	10YR 5/4	Sand	Rounded and subrounded rocks present
SI02.01	IV	90	100	10YR 6/6	Sand	Rounded and subrounded rocks present
SI02.02	I	0	24	10YR 4/2	Sandy Loam	Fill

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
SI02.02	II	24	50	10YR 5/4	Loamy Sand	Redep B extremely compacted
SI02.02	III	50	69	10YR 5/6	Loamy Sand	B2
SI02.03	I	0	9	10YR 4/2	Sandy Loam	None
SI02.03	II	9	12	10YR 5/1	Sandy Loam	None
SI02.03	III	12	51	10YR 5/4	Sandy Loam	None
SI02.03	IV	51	100	10YR 5/6	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded) ended for meter deep.
SI02.04	I	0	15	10YR 4/2	Sandy Loam	None
SI02.04	II	15	56	10YR 5/6	Sandy Loam	None
SI02.04	III	56	89	10YR 4/6	Sandy Loam	None
SI02.04	IV	89	100	10YR 6/4	Sand	Rounded Pebbles sterile subsoil
SI02.05	I	0	18	10YR 4/2	Sandy Loam	None
SI02.05	II	18	40	10YR 5/4	Sand	Rounded and subrounded rocks present
SI02.05	III	40	85	10YR 5/6	Sand	Many Rounded and subrounded rocks present
SI02.05	IV	85	100	10YR 6/4	Sand	Rounded and subrounded rocks present
SI02.06	I	0	18	10YR 4/2	Sandy Loam	Fill
SI02.06	II	18	66	10YR 5/6	Loamy Sand	Redeposited B with buried cable at 66cmbs leading to termination.
SI02.07	I	0	16	10YR 2/1	Sandy Loam	None
SI02.07	II	16	24	10YR 5/1	Sandy Loam	None
SI02.07	III	24	77	10YR 5/6	Sand	None
SI02.07	IV	77	100	10YR 6/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded) ended for meter deep.
SI02.09	I	0	16	10YR 4/2	Sandy Loam	Fill
SI02.09	I	0	11	10YR 4/2	Sandy Loam	None
SI02.09	II	16	59	10YR 5/6	Sandy Loam	Redep B extremely compacted
SI02.09	II	11	39	10YR 4/6	Sandy Loam	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
SI02.09	III	39	72	10YR 5/6	Sandy Loam	None
SI02.09	IV	72	100	10YR 6/4	Sand	Sterile subsoil
SI02.10	I	0	12	10YR 4/2	Sandy Loam	None
SI02.10	II	12	32	10YR 5/3	Sand	Rounded and subrounded rocks present
SI02.10	III	32	80	10YR 5/4	Sand	Many rounded and subrounded rocks present
SI02.10	IV	80	100	10YR 5/6	Sand	Rounded and subrounded rocks present
SI02.11	I	0	13	10YR 4/2	Sandy Loam	Fill
SI02.11	II	13	43	10YR 5/6	Sandy Loam	Compacted B
SI02.11	III	43	71	10YR 5/4	Sandy Loam	Compacted B2
SI02.11	IV	71	82	10YR 6/2	Sand	Medium to coarse sand subsoil with cobbles
SI02.12	I	0	10	10YR 4/2	Sandy Loam	None
SI02.12	II	10	46	10YR 5/4	Sandy Loam	None
SI02.12	III	46	100	10YR 5/6	Sand	Rocks and gravel present, large cobbles. Ended for meter deep.
SI02.13	I	0	12	10YR 5/2	Sandy Loam	None
SI02.13	II	12	51	10YR 4/4	Sandy Loam	None
SI02.13	III	51	90	10YR 4/6	Sandy Loam	None
SI02.13	IV	90	100	10YR 6/4	Sand	Rounded pebbles and gravel sterile subsoil
SI02.14	I	0	6	10YR 4/2	Sandy Loam	Dev A
SI02.14	II	6	43	10YR 5/4	Sandy Loam	B1
SI02.14	III	43	65	10YR 5/6	Loamy Sand	B2
SI02.14	IV	65	78	10YR 6/4	Sand	C
SI02.15	I	0	10	10YR 4/2	Sandy Loam	None
SI02.15	II	10	21	10YR 5/4	Sandy Loam	Rounded and subrounded rocks present
SI02.15	III	21	85	10YR 5/6	Sand	Rounded and subrounded rocks present
SI02.15	IV	85	100	10YR 6/4	Sand	Rounded and subrounded rocks present
SI02.16	I	0	13	10YR 4/2	Sandy Loam	None
SI02.16	II	13	53	10YR 5/4	Sandy Loam	None
SI02.16	III	53	100	10YR 5/6	Sandy Loam	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
SI02.17	I	0	10	10YR 4/2	Sandy Loam	Overburden
SI02.17	II	10	45	10YR 5/6	Loamy Sand	B1
SI02.17	III	45	80	10YR 5/4	Sand	B2
SI02.17	IV	80	90	10YR 6/2	Sand	Coarse sand subsoil
SI02.18	I	0	13	10YR 4/2	Sandy Loam	None
SI02.18	II	13	58	10YR 5/6	Sand	None
SI02.18	III	58	85	10YR 6/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
SI02.18	IV	85	100	10YR 6/3	Sand	None
SI02.19	I	0	12	10YR 4/2	Sandy Loam	None
SI02.19	II	12	46	10YR 5/4	Sandy Loam	None
SI02.19	III	46	71	10YR 4/6	Sandy Loam	None
SI02.19	IV	71	81	10YR 6/4	Sand	Sterile subsoil
SI02.20	I	0	14	10YR 4/2	Sandy Loam	A
SI02.20	II	14	53	10YR 5/4	Sandy Loam	BW
SI02.20	III	53	61	7.5YR 5/4	Loamy Sand	BC, stopped excavation at buried wire.
SI02.21	I	0	19	10YR 4/2	Sandy Loam	None
SI02.21	II	19	30	10YR 5/3	Sandy Loam	Rounded and subrounded rocks present
SI02.21	III	30	89	10YR 5/6	Sand	Rounded and subrounded rocks present
SI02.21	IV	89	100	10YR 6/4	Sand	Rounded and subrounded rocks present
SI02.22	I	0	26	10YR 4/2	Loamy Sand	Fill
SI02.22	II	26	60	10YR 5/6	Loamy Sand	B1
SI02.22	III	60	80	10YR 5/4	Sand	B2
SI02.22	IV	80	90	10YR 6/2	Sand	Coarse sand with cobbles
SI02.23	I	0	13	10YR 3/2	Sandy Loam	None
SI02.23	II	13	28	10YR 5/4	Sand	None
SI02.23	III	28	69	10YR 5/6	Sand	Very rocky (well rounded, rounded, and sub rounded) ended for rock impasse.
SI02.24	I	0	21	10YR 4/2	Sandy Loam	A
SI02.24	II	21	33	10YR 4/4	Sandy Loam	Bw

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
SI02.24	III	33	62	7.5YR 5/4	Sand	BC
SI02.24	IV	62	75	10YR 6/6	Sand	Loose C horizon sand and gravel
SI02.25	I	0	36	10YR 2/2	Loamy Sand	Fill
SI02.25	II	36	79	10YR 5/4	Sand	B1
SI02.25	III	79	105	10YR 5/6	Sand	B2
SI03.01	I	0	11	10YR 4/2	Sandy Loam	A
SI03.01	II	11	52	10YR 5/4	Loamy Sand	Bw
SI03.01	III	52	76	7.5YR 5/4	Sand	BC
SI03.01	IV	76	100	10YR 6/2	Sand	C horizon loose sand and gravel
SI03.02	I	0	12	10YR 4/2	Sandy Loam	None
SI03.02	II	12	43	10YR 5/4	Sandy Loam	None
SI03.02	III	43	64	10YR 6/4	Sand	None
SI03.03	I	0	17	10YR 4/2	Sandy Loam	None
SI03.03	II	17	50	10YR 5/4	Sandy Loam	Rounded and subrounded rocks present
SI03.03	III	50	100	10YR 5/6	Sand	Many rounded and subrounded rocks present
SI03.04	I	0	18	10YR 4/2	Sandy Loam	A
SI03.04	II	18	50	10YR 5/6	Loamy Sand	B1
SI03.04	III	50	75	10YR 5/4	Sand	B2
SI03.04	IV	75	85	10YR 6/2	Sand	Sandy subsoil
SI03.05	I	0	12	10YR 4/2	Sandy Loam	A/Ao
SI03.05	II	12	56	10YR 5/4	Sandy Loam	Bw
SI03.05	III	56	91	7.5YR 5/4	Loamy Sand	BC
SI03.05	IV	91	100	10YR 6/2	Sand	Loose C horizon sand and gravel
SI03.06	I	0	10	10YR 2/2	Sandy Loam	None
SI03.06	II	10	19	10YR 5/1	Sandy Loam	None
SI03.06	III	19	48	10YR 5/4	Sandy Loam	None
SI03.06	IV	48	87	10YR 5/6	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
SI03.06	V	87	100	10YR 6/4	Sand	Rocks and gravel present(well rounded, rounded, and sub rounded) ended for meter deep.
SI03.07	I	0	7	10YR 3/2	Sandy Loam	A
SI03.07	II	7	15	10YR 5/1	Sandy Loam	Ae
SI03.07	III	15	36	10YR 5/4	Loamy Sand	B1
SI03.07	IV	36	58	10YR 5/6	Loamy Sand	B2
SI03.07	V	58	70	10YR 6/4	Sand	C
SI03.08	I	0	14	10YR 5/1	Sandy Loam	None
SI03.08	II	14	51	10YR 5/4	Sandy Loam	None
SI03.08	III	51	72	10YR 4/4	Sand	Rounded pebbles and gravel
SI03.08	IV	72	82	10YR 6/4	Sand	Rounded pebbles and gravel sterile subsoil
SI03.09	I	0	17	10YR 4/2	Sandy Loam	None
SI03.09	II	17	43	10YR 5/4	Sandy Loam	Rounded and subrounded rocks present
SI03.09	III	43	87	10YR 5/6	Sand	Many rounded and subrounded rocks present
SI03.09	IV	87	100	10YR 6/4	Sand	Rounded and subrounded rocks present
SI03.10	I	0	12	10YR 3/2	Sandy Loam	A/Ao
SI03.10	II	12	64	10YR 5/4	Sandy Loam	Bw
SI03.10	III	64	88	7.5YR 5/4	Loamy Sand	BC
SI03.10	IV	88	100	10YR 6/6	Sand	C horizon loose sand and gravel
SI03.11	I	0	10	10YR 6/2	Sandy Loam	None
SI03.11	II	10	31	10YR 5/4	Sandy Loam	Rounded and subrounded rocks present
SI03.11	III	31	100	10YR 5/6	Sand	Rounded and subrounded rocks present
SI03.12	I	0	13	10YR 4/2	Sandy Loam	A
SI03.12	II	13	34	10YR 5/6	Loamy Sand	B1
SI03.12	III	34	66	10YR 5/4	Sand	B2
SI03.12	IV	66	76	10YR 6/2	Sand	Coarse sand subsoil with cobbles
SI03.13	I	0	12	10YR 4/1	Sandy Loam	None
SI03.13	II	12	52	10YR 5/4	Sandy Loam	None
SI03.13	III	52	100	10YR 5/4	Sandy Loam	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
SI03.14	I	0	7	10YR 3/2	Sandy Loam	None
SI03.14	II	7	14	10YR 5/1	Sandy Loam	None
SI03.14	III	14	55	10YR 5/6	Sandy Loam	None
SI03.14	IV	55	100	10YR 6/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded) ended for meter deep.
SI03.15	I	0	12	10YR 3/2	Sandy Loam	A/Ao
SI03.15	II	12	33	10YR 5/4	Sandy Loam	Bw
SI03.15	III	33	54	10YR 5/6	Sandy Loam	Bw
SI03.15	IV	54	86	7.5YR 5/4	Sand	BC
SI03.15	V	86	100	10YR 6/6	Sand	C horizon loose sand and gravel
SI03.16	I	0	11	10YR 4/2	Sandy Loam	Fill
SI03.16	II	11	72	10YR 5/4	Loamy Sand	B2
SI03.16	III	72	87	10YR 6/3	Sand	C
SI03.17	I	0	13	10YR 5/2	Sandy Loam	None
SI03.17	II	13	47	10YR 5/4	Sandy Loam	None
SI03.17	III	47	81	10YR 4/4	Sandy Loam	Rounded pebbles and gravel
SI03.17	IV	81	91	10YR 6/4	Sand	Rounded pebbles and gravel sterile subsoil
SI03.18	I	0	11	10YR 4/2	Sandy Loam	None
SI03.18	II	11	40	10YR 5/4	Sandy Loam	Rounded and subrounded rocks present
SI03.18	III	40	100	10YR 5/6	Sand	Rounded and subrounded rocks
SI03.19	I	0	13	10YR 3/2	Sandy Loam	A/Ao
SI03.19	II	13	33	10YR 5/4	Sandy Loam	Bw
SI03.19	III	33	64	10YR 5/6	Sandy Loam	Bw
SI03.19	IV	64	80	7.5YR 5/4	Loamy Sand	BC
SI03.19	V	80	100	10YR 6/6	Sand	C horizon loose sand and gravel
SI03.20	I	0	14	10YR 4/2	Sandy Loam	Fill
SI03.20	II	14	56	10YR 5/6	Loamy Sand	B1
SI03.20	III	56	90	10YR 5/4	Sand	B2
SI03.20	IV	90	100	10YR 6/2	Sand	Coarse sand subsoil with cobbles

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
SI03.21	I	0	5	10YR 3/2	Sandy Loam	None
SI03.21	II	5	14	10YR 5/1	Sandy Loam	None
SI03.21	III	14	45	10YR 5/4	Sandy Loam	None
SI03.21	IV	45	100	10YR 5/6	Sand	Very rocky (well rounded, rounded, and sub rounded), ended for meter deep.
SI03.22	I	0	13	10YR 4/2	Sandy Loam	None
SI03.22	II	13	54	10YR 5/4	Sandy Loam	None
SI03.22	III	54	100	10YR 4/4	Sandy Loam	None
SI03.23	I	0	14	10YR 4/2	Sandy Loam	None
SI03.23	I	0	14	10YR 4/2	Sandy Loam	None
SI03.23	II	14	41	10YR 4/6	Sandy Loam	None
SI03.23	II	14	41	10YR 4/6	Sandy Loam	None
SI03.23	III	41	90	10YR 5/3	Sand	Rounded and subrounded cobbles
SI03.23	III	41	90	10YR 5/3	Sand	Rounded and subrounded cobbles
SI03.23	IV	90	100	10YR 6/4	Sand	Sterile subsoil with rounded and subrounded cobbles
SI03.23	IV	90	100	10YR 6/4	Sand	Sterile subsoil with rounded and subrounded cobbles
SI03.24	I	0	13	10YR 3/2	Sandy Loam	A
SI03.24	II	13	21	10YR 5/1	Sandy Loam	Ae
SI03.24	III	21	44	10YR 5/4	Loamy Sand	B1
SI03.24	IV	44	84	10YR 5/6	Sand	B2
SI03.24	V	84	94	10YR 6/4	Sand	C
SI04.01	I	0	15	10YR 4/2	Sandy Loam	None
SI04.01	II	15	56	10YR 5/4	Sandy Loam	None
SI04.01	III	56	100	10YR 5/4	Sandy Loam	Rounded gravel and cobbles
SI04.02	I	0	15	10YR 4/2	Sandy Loam	None
SI04.02	II	15	45	10YR 3/4	Sandy Loam	None
SI04.02	III	45	90	10YR 4/3	Sand	Rounded and subrounded cobbles

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
SI04.02	IV	90	100	10YR 5/3	Sand	Sterile subsoil and rounded and subrounded cobbles
SI04.03	I	0	12	10YR 4/2	Sandy Loam	None
SI04.03	II	12	44	10YR 5/4	Sand	Very rocky (well rounded, rounded, and sub rounded)
SI04.03	III	44	100	10YR 5/6	Sand	Very rocky (well rounded, rounded, and sub rounded), ended for meter deep.
SI04.04	I	0	15	10YR 3/2	Sandy Loam	A
SI04.04	II	15	15	10YR 5/1	Loamy Sand	Ae
SI04.04	III	15	53	10YR 5/4	Loamy Sand	B1
SI04.04	IV	53	80	10YR 5/6	Loamy Sand	B2
SI04.04	V	80	100	10YR 6/4	Sand	C
SI04.05	I	0	15	10YR 4/2	Sandy Loam	None
SI04.05	II	15	49	10YR 5/4	Sandy Loam	None
SI04.05	III	49	100	10YR 4/4	Sand	None
SI04.06	I	0	20	10YR 4/2	Sandy Loam	None
SI04.06	II	20	65	10YR 4/6	Sandy Loam	None
SI04.06	III	65	100	10YR 5/3	Sand	Rounded and subrounded cobbles
SI04.07	I	0	18	10YR 4/2	Sandy Loam	None
SI04.07	II	18	43	10YR 5/4	Sandy Loam	Rounded and subrounded rocks present
SI04.07	III	43	100	10YR 5/6	Sand	Rounded and subrounded rocks present
SI04.08	I	0	10	10YR 4/2	Sandy Loam	Fill
SI04.08	II	10	62	10YR 5/6	Sandy Loam	B1
SI04.08	III	62	100	10YR 5/4	Sand	B2
SI04.09	I	0	70	10YR 5/3	Sand	Disturbed possible fill with modern materials
SI04.09	II	70	80	10YR 4/2	Sandy Loam	None
SI04.09	III	80	100	10YR 4/6	Sandy Loam	Rounded and subrounded cobbles
SI04.10	I	0	10	10YR 4/2	Sandy Loam	None
SI04.10	II	10	55	10YR 5/4	Sandy Loam	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
SI04.10	III	55	100	10YR 5/6	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for meter deep.
SI04.11	I	0	15	10YR 4/2	Sand	Fill
SI04.11	II	15	45	10YR 5/4	Loamy Sand	B1
SI04.11	III	45	63	10YR 5/6	Loamy Sand	B2
SI04.11	IV	63	73	10YR 6/4	Sand	C
SI04.12	I	0	24	10YR 4/2	Sandy Loam	None
SI04.12	II	24	61	10YR 5/4	Sandy Loam	None
SI04.12	III	61	86	10YR 4/4	Sandy Loam	Very rocky rounded gravel cobbles
SI04.12	IV	86	100	10YR 6/4	Sand	Very rocky rounded gravel and cobbles sterile subsoil
SI04.13	I	0	13	10YR 4/2	Sandy Loam	None
SI04.13	II	13	31	10YR 5/4	Sandy Loam	Rounded and subrounded rocks present
SI04.13	III	31	90	10YR 5/6	Sand	Rounded and subrounded rocks present
SI04.13	IV	90	100	10YR 6/4	Sand	Rounded and subrounded rocks present
SI04.14	I	0	19	10YR 4/2	Sandy Loam	None
SI04.14	II	19	50	10YR 4/6	Sandy Loam	None
SI04.14	III	50	100	10YR 6/4	Sand	Rounded and subrounded cobbles
SI04.15	I	0	16	10YR 4/2	Sandy Loam	Fill
SI04.15	II	16	46	10YR 5/6	Loamy Sand	B1
SI04.15	III	46	63	10YR 5/4	Sand	B2
SI04.15	IV	63	73	10YR 6/2	Sand	Coarse sand subsoil with cobbles
SI04.16	I	0	17	10YR 4/2	Sandy Loam	None
SI04.16	II	17	55	10YR 5/4	Sandy Loam	None
SI04.16	III	55	89	10YR 5/6	Sand	None
SI04.16	IV	89	100	10YR 6/3	Sand	None
SI04.17	I	0	13	10YR 4/2	Sandy Loam	None
SI04.17	II	13	42	10YR 4/4	Sandy Loam	None
SI04.17	III	42	74	10YR 4/3	Sandy Loam	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
SI04.17	IV	74	84	10YR 6/4	Sand	None
SI04.18	I	0	17	10YR 4/2	Sandy Loam	None
SI04.18	II	17	60	10YR 4/6	Sandy Loam	Rounded and subrounded cobbles
SI04.18	III	60	100	10YR 5/3	Sand	Rounded and subrounded cobbles
SI04.19	I	0	14	10YR 4/2	Sandy Loam	None
SI04.19	II	14	49	10YR 4/6	Sandy Loam	None
SI04.19	III	49	87	10YR 5/3	Sand	Rounded and subrounded cobbles
SI04.19	IV	87	100	10YR 6/4	Sand	Sterile subsoil with rounded and subrounded cobbles
SI04.20	I	0	22	10YR 5/4	Sandy Loam	Redep B/Fill 10 YR 4/2
SI04.20	II	22	61	10YR 5/4	Loamy Sand	B1
SI04.20	III	61	82	10YR 5/6	Loamy Sand	B2
SI04.20	IV	82	100	10YR 6/4	Sand	C
SI04.21	I	0	15	10YR 4/2	Sandy Loam	None
SI04.21	II	15	42	10YR 5/3	Sandy Loam	Rounded and subrounded rocks present
SI04.21	III	42	78	10YR 5/6	Sand	Rounded and subrounded rocks present, excavation impasse for significant compaction
SI04.22	I	0	12	10YR 4/2	Sandy Loam	None
SI04.22	II	12	27	10YR 4/4	Sandy Loam	Heavily compacted
SI05.01	I	0	17	10YR 3/2	Loam	None
SI05.01	II	17	29	10YR 4/2	Sandy Loam	None
SI05.01	III	29	65	10YR 4/6	Sandy Loam	None
SI05.01	IV	65	100	10YR 4/4	Sand	None
SI05.02	I	0	27	10YR 3/1	Sandy Loam	A
SI05.02	II	27	51	10YR 4/6	Loamy Sand	B1
SI05.02	III	51	73	10YR 5/4	Loamy Sand	B2
SI05.02	IV	73	85	10YR 6/4	Sand	None
SI05.03	I	0	12	10YR 4/2	Sandy Loam	None
SI05.03	II	12	28	10YR 5/3	Sandy Loam	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
SI05.03	III	28	100	10YR 5/6	Sand	Rounded and subrounded rocks present
SI05.04	I	0	15	10YR 4/2	Sandy Loam	A/Ao
SI05.04	II	15	46	10YR 5/4	Sandy Loam	Bw
SI05.04	III	46	76	7.5YR 5/4	Loamy Sand	BC
SI05.04	IV	76	100	10YR 6/6	Sand	Chorizos loose sand and gravel
SI05.05	I	0	13	10YR 3/2	Loam	Wood chip deposit.
SI05.05	II	13	20	10YR 4/2	Sandy Loam	None
SI05.05	III	20	51	10YR 5/4	Sandy Loam	None
SI05.05	IV	51	100	10YR 5/6	Sand	Ended for meter deep.
SI05.06	I	0	10	10YR 4/2	Sandy Loam	A/Ao
SI05.06	II	10	54	10YR 5/4	Sandy Loam	Bw
SI05.06	III	54	86	7.5YR 5/4	Loamy Sand	BC
SI05.06	IV	86	100	10YR 6/6	Sand	C horizon loose sands and gravel
SI05.07	I	0	13	10YR 4/2	Sandy Loam	None
SI05.07	II	13	32	10YR 5/4	Sandy Loam	Rounded and subrounded rocks present
SI05.07	III	32	71	10YR 5/6	Sand	Many rounded and subrounded rocks present
SI05.07	IV	71	81	10YR 6/4	Sand	Rounded and subrounded rocks present
SI05.08	I	0	21	10YR 4/2	Sandy Loam	12cm overburden
SI05.08	II	21	55	10YR 5/4	Sandy Loam	None
SI05.08	III	55	79	10YR 4/4	Sandy Loam	None
SI05.09	I	0	14	10YR 4/2	Sandy Loam	Fill
SI05.09	II	14	55	10YR 5/6	Sand	B1
SI05.09	III	55	100	10YR 5/4	Sand	B2
SI05.10	I	0	15	10YR 4/2	Sandy Loam	None
SI05.10	II	15	48	10YR 5/4	Sandy Loam	None
SI05.10	III	48	100	10YR 5/6	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for meter deep.
SI05.11	I	0	7	10YR 4/2	Sandy Loam	A/Ae
SI05.11	II	7	28	10YR 5/4	Sandy Loam	Bw extremely compacted

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
SI05.11	III	28	70	10YR 5/6	Loamy Sand	B2
SI05.11	IV	70	108	10YR 6/3	Sand	C
SI05.12	I	0	9	10YR 4/2	Sandy Loam	Rounded and subrounded rocks present
SI05.12	II	9	17	10YR 5/3	Sandy Loam	Rounded and subrounded rocks present
SI05.12	III	17	43	10YR 5/4	Sandy Loam	Many rounded and subrounded rocks present
SI05.12	IV	43	73	10YR 5/6	Sand	Rounded and subrounded rocks present
SI05.12	V	73	83	10YR 6/4	Sand	Rounded and subrounded rocks present
SI05.13	I	0	10	10YR 4/2	Sandy Loam	None
SI05.13	II	10	33	10YR 4/6	Sandy Loam	None
SI05.13	III	33	70	10YR 5/3	Sand	Rounded and subrounded cobbles
SI05.13	IV	70	85	10YR 6/4	Sand	Sterile subsoil rounded and subrounded cobbles
SI05.14	I	0	13	10YR 4/2	Sandy Loam	Fill
SI05.14	II	13	60	10YR 5/6	Sand	B1
SI05.14	III	60	80	10YR 5/4	Sand	B2
SI05.14	IV	80	100	10YR 6/2	Sand	Coarse sand subsoil with cobbles
SI05.15	I	0	12	10YR 4/2	Sandy Loam	None
SI05.15	II	12	87	10YR 4/6	Sandy Loam	None
SI05.15	III	87	100	10YR 4/4	Sandy Loam	None
SI05.16	I	0	10	10YR 4/2	Sandy Loam	None
SI05.16	II	10	30	10YR 5/4	Sandy Loam	None
SI05.16	III	30	80	10YR 5/3	Sand	Rounded and subrounded cobbles
SI05.16	IV	80	100	10YR 6/4	Sand	Sterile subsoil with rounded and subrounded cobbles
SI05.17	I	0	12	10YR 4/2	Sandy Loam	None
SI05.17	II	12	41	10YR 5/4	Sand	Rocks and gravel present
SI05.17	III	41	77	10YR 5/6	Sand	Rocks and gravel present
SI05.17	IV	77	100	10YR 6/3	Sand	Rocks and gravel present
SI05.18	I	0	15	10YR 4/2	Sandy Loam	A
SI05.18	II	15	47	10YR 5/4	Loamy Sand	B1

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
SI05.18	III	47	67	10YR 5/6	Loamy Sand	B2
SI05.18	IV	67	77	10YR 6/4	Sand	C
SI05.19	I	0	10	10YR 4/2	Sandy Loam	None
SI05.19	II	10	51	10YR 5/4	Sandy Loam	None
SI05.19	III	51	100	10YR 4/6	Sandy Loam	Rounded gravel and cobbles
SI05.20	I	0	11	10YR 4/2	Sandy Loam	Rounded and subrounded rocks present
SI05.20	II	11	22	10YR 5/4	Sandy Loam	Rounded and subrounded rocks present
SI05.20	III	22	75	10YR 5/6	Sand	Many rounded and subrounded rocks present
SI05.20	IV	75	85	10YR 6/4	Sand	Rounded and subrounded rocks present
SI05.21	I	0	10	10YR 4/2	Sandy Loam	None
SI05.21	II	10	43	10YR 4/6	Sandy Loam	None
SI05.21	III	43	87	10YR 5/3	Sand	Rounded and subrounded cobbles
SI05.21	IV	87	100	10YR 6/4	Sand	Sterile subsoil rounded and subrounded cobbles
SI05.22	I	0	10	10YR 4/2	Sandy Loam	Fill
SI05.22	II	10	38	10YR 5/6	Loamy Sand	B1
SI05.22	III	38	67	7.5YR 5/4	Sand	B2
SI05.22	IV	67	78	7.5YR 6/2	Sand	Coarse sand subsoil with cobbles
SI06.01	I	0	11	10YR 4/2	Sandy Loam	None
SI06.01	II	11	27	10YR 5/4	Sandy Loam	Rounded and subrounded rocks present
SI06.01	III	27	78	10YR 5/6	Sand	Many rounded and subrounded rocks present
SI06.01	IV	78	100	10YR 6/4	Sand	Rounded and subrounded rocks present
SI06.02	I	0	9	10YR 4/2	Sandy Loam	None
SI06.02	II	9	54	10YR 5/4	Sandy Loam	None
SI06.02	III	54	80	7.5YR 5/4	Loamy Sand	Very rocky well rounded and rounded gravel and cobbles
SI06.02	IV	80	100	10YR 6/6	Sand	Loose C horizon well rounded and rounded gravel and cobbles
SI06.03	I	0	25	10YR 4/2	Sandy Loam	Fill
SI06.03	II	25	74	10YR 5/6	Sand	B

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
SI06.03	III	74	100	10YR 6/2	Sand	Coarse sand subsoil with cobbles
SI06.04	I	0	12	10YR 4/2	Sandy Loam	None
SI06.04	II	12	43	10YR 5/4	Sandy Loam	None
SI06.04	III	43	86	10YR 4/4	Sandy Loam	Well rounded rounded pebbles and gravel
SI06.05	I	0	12	10YR 4/2	Sandy Loam	Fill
SI06.05	II	12	47	10YR 5/4	Loamy Sand	Extremely rocky B1
SI06.06	I	0	17	10YR 4/2	Sandy Loam	Fill
SI06.06	II	17	34	10YR 5/6	Loamy Sand	Compacted B1
SI06.06	III	34	66	10YR 5/4	Loamy Sand	B2
SI06.06	IV	66	80	10YR 6/2	Sand	Coarse sand subsoil with cobbles
SI06.07	I	0	13	10YR 4/2	Sandy Loam	None
SI06.07	II	13	51	10YR 5/4	Sandy Loam	None
SI06.07	III	51	88	10YR 4/4	Sand	Rounded and subrounded cobbles
SI06.07	IV	88	100	10YR 6/4	Sand	Rounded and subrounded cobbles sterile subsoil
SI06.08	I	0	36	10YR 5/4	Sandy Loam	Interlocking cobbles
SI06.09	I	0	9	10YR 4/2	Sandy Loam	None
SI06.09	II	9	23	10YR 5/3	Sandy Loam	Rounded and subrounded rocks present
SI06.09	III	23	43	10YR 5/4	Sandy Loam	Rounded and subrounded rocks present
SI06.09	IV	43	80	10YR 5/6	Sand	Many rounded and subrounded rocks present, excavation impasse for significant compaction
SI06.10	I	0	12	10YR 4/3	Sandy Loam	Overburden
SI06.10	II	12	28	10YR 3/2	Sandy Loam	Buried A
SI06.10	III	28	61	10YR 5/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
SI06.10	IV	61	80	10YR 6/4	Sand	Very rocky (well rounded, rounded, and sub rounded), increasing concentration of large rounded conbles. Ended for rocky impasse.
W01.01	I	0	10	10YR 5/2	Sandy Loam	Fill

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
W01.02	I	0	25	10YR 4/2	Sandy Loam	Overburden
W01.02	II	25	35	10YR 5/6	Sand	Very compact, ended for compaction impasse.
W01.03	I	0	9	10YR 4/2	Sandy Loam	None
W01.04	I	0	30	10YR 4/1	Sandy Loam	Fill with glass, asphalt, and metal screws
W01.04	II	30	55	10YR 3/2	Sandy Loam	Fill with asphalt and railroad tie present leading to impasse.
W01.05	I	0	18	10YR 4/2	Sandy Loam	Rounded and subrounded rocks present
W01.05	II	18	40	10YR 4/3	Sandy Loam	Rounded and subrounded rocks present
W01.05	III	40	61	10YR 5/4	Sand	Rounded and subrounded rocks present, banded fill
W01.05	IV	61	100	10YR 5/6	Sand	Rounded and subrounded rocks present
W01.06	I	0	34	10YR 3/2	Loamy Sand	Landscape A
W01.07	I	0	19	10YR 4/2	Sandy Loam	None
W01.07	II	19	33	10YR 3/2	Sandy Loam	None
W01.07	III	33	75	10YR 5/4	Sandy Loam	Very rocky, saturated. Ended for rock impasse.
W01.08	I	0	41	10YR 3/2	Loamy Sand	None
W01.08	II	41	48	10YR 4/2	Loamy Sand	None
W01.09	I	0	100	10YR 4/2	Loamy Sand	Fill asphalt and modern trash present not collected
W01.10	I	0	12	10YR 4/1	Sandy Loam	None
W01.10	II	12	42	10YR 4/3	Sandy Loam	None
W01.10	III	42	70	10YR 5/3	Sand	Root impasse
W01.11	I	0	55	10YR 4/2	Sandy Loam	Fill dense with asphalt, plastic, styrofoam
W01.11	II	55	100	10YR 4/6	Loamy Sand	B2
W01.12	I	0	21	10YR 4/2	Sandy Loam	Subangular, rounded and subrounded rocks present
W01.12	II	21	33	10YR 5/3	Sandy Loam	Subangular , rounded and subrounded rocks present

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
W01.12	III	33	70	10YR 5/4	Sand	Rounded and subrounded rocks present, excavation impasse for significant compaction
W01.13	I	0	56	10YR 3/1	Sandy Loam	Fill mottled with 10YR2/1 and 7.5YR5/4
W01.13	II	56	100	7.5YR 5/4	Sandy Clay Loam	Bw
W01.15	I	0	23	10YR 4/2	Sandy Loam	None
W01.15	II	23	70	10YR 5/4	Sand	Very rocky (well rounded, rounded, and sub rounded)
W01.15	III	70	100	10YR 6/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded) ended for meter deep.
W01.16	I	0	16	10YR 4/2	Sandy Loam	Landscape A
W01.16	II	16	61	10YR 5/6	Loamy Sand	Compacted B1 with dense roots leading to impasse at 61cmbs
W01.17	I	0	25	10YR 4/2	Sandy Loam	None
W01.17	II	25	62	10YR 4/6	Sandy Loam	We'll rounded and rounded pebbles and gravel
W01.17	III	62	100	10YR 5/6	Sand	Well rounded and rounded pebbles and gravel
W01.18	I	0	20	10YR 4/2	Sandy Loam	Disturbed fill
W01.18	II	20	42	10YR 4/6	Sandy Loam	None
W01.18	III	42	86	10YR 4/4	Sandy Loam	None
W01.18	IV	86	100	10YR 6/4	Sand	Sterile subsoil
W01.19	I	0	15	10YR 4/2	Sandy Loam	Rounded and subrounded rocks present
W01.19	II	15	25	10YR 4/3	Sandy Loam	Rounded and subrounded rocks present, excavation impasse for buried line
WF01.01	I	0	8	10YR 4/3	Sandy Loam	Overburden
WF01.01	I	0	8	10YR 4/3	Sandy Loam	Overburden
WF01.01	II	8	13	10YR 3/2	Sandy Loam	A
WF01.01	II	8	13	10YR 3/2	Sandy Loam	A
WF01.01	III	13	20	10YR 5/1	Sand	Ae
WF01.01	III	13	20	10YR 5/1	Sand	Ae

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
WF01.01	IV	20	40	10YR 4/6	Sand	B
WF01.01	IV	20	40	10YR 4/6	Sand	B
WF01.02	I	0	20	10YR 3/3	Sandy Loam	Rounded and subrounded rocks present
WF01.02	II	20	100	7.5YR 5/4	Sand	Rounded and subrounded rocks present
WF01.03	I	0	8	10YR 3/3	Sandy Loam	A
WF01.03	I	0	8	10YR 3/3	Sandy Loam	A
WF01.03	II	8	16	10YR 5/1	Sandy Loam	Ae
WF01.03	II	8	16	10YR 5/1	Sandy Loam	Ae
WF01.03	III	16	75	10YR 4/6	Loamy Sand	B
WF01.03	III	16	75	10YR 4/6	Loamy Sand	B
WF01.03	IV	75	100	10YR 5/4	Sand	B2
WF01.03	IV	75	100	10YR 5/4	Sand	B2
WF01.04	I	0	12	10YR 2/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded), thin E horizon present (10yr 5/1 sa.) at bottom of strat I.
WF01.04	II	12	40	10YR 4/6	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
WF01.04	III	40	100	10YR 5/4	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded) ended for meter deep.
WF02.01	I	0	15	10YR 3/4	Sandy Loam	Rounded and subrounded rocks present
WF02.01	II	15	60	10YR 4/6	Sand	Rounded and subrounded rocks present, 10YR 2/2 band near base of strat ~5cm thick
WF02.01	III	60	100	10YR 5/6	Sand	Rounded and subrounded rocks present
WF02.02	I	0	11	10YR 5/3	Sandy Loam	None
WF02.02	II	11	49	10YR 3/2	Sandy Loam	None
WF02.02	III	49	100	10YR 4/3	Sandy Loam	None
WF02.03	I	0	16	10YR 3/4	Sandy Loam	None
WF02.03	II	16	32	10YR 3/3	Sand	Rounded and subrounded rocks present, excavation impasse for root

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
WF02.04	I	0	30	10YR 4/2	Sandy Loam	Rounded and subrounded rocks present, E horizon at bottom of strat ~2cm thick
WF02.04	II	30	100	7.5YR 4/6	Sand	Rounded and subrounded rocks present
WF02.05	I	0	24	10YR 3/3	Sandy Loam	Rounded and subrounded rocks present
WF02.05	II	24	28	10YR 5/1	Sand	Rounded and subrounded rocks present
WF02.05	III	28	1001	7.5YR 4/6	Sand	Rounded and subrounded rocks present
WF02.06	I	0	20	10YR 6/1	Sandy Loam	None
WF02.06	II	20	49	10YR 5/6	Sandy Loam	Rounded pebbles
WF02.06	III	49	100	10YR 5/4	Sandy Loam	Rounded pebbles
WF02.07	I	0	12	10YR 4/2	Sandy Loam	A
WF02.07	II	12	17	10YR 5/1	Sand	E
WF02.07	III	17	44	10YR 4/6	Sand	B1
WF02.07	IV	44	100	10YR 5/6	Sand	B2
WF02.08	I	0	11	10YR 2/2	Loam	None
WF02.08	II	11	17	10YR 6/1	Sandy Loam	None
WF02.08	III	17	22	10YR 5/6	Sandy Loam	None
WF02.09	I	0	19	10YR 3/3	Sandy Loam	E Horizon at bottom of strat ~2cm thick
WF02.09	II	19	42	7.5YR 3/4	Sand	Rounded and subrounded rocks present
WF02.09	III	42	74	7.5YR 4/4	Sand	Rounded and subrounded rocks present
WF02.09	IV	74	94	7.5YR 4/6	Sand	Rounded and subrounded rocks present
WF02.10	I	0	8	10YR 4/2	Sandy Loam	Hazardous conditions impasse- bees
WF02.11	I	0	10	10YR 4/2	Loamy Sand	Excavation terminated due to hazardous conditions- bees
WF02.12	I	0	13	10YR 4/2	Sandy Loam	A
WF02.12	II	13	25	10YR 4/6	Loamy Sand	B1
WF02.12	III	25	76	10YR 5/6	Sand	B2, medium to coarse sand with cobbles and oxidation
WF02.12	IV	76	100	10YR 6/3	Sand	Coarse sandy subsoil with oxidation and medium cobbles throughout
WF02.13	I	0	34	10YR 4/2	Sandy Loam	Fill, rounded and subrounded rocks present

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
WF02.13	II	34	60	10YR 5/4	Sandy Loam	Rounded and subrounded rocks present
WF02.13	III	60	82	10YR 5/6	Sandy Loam	Rounded and subrounded rocks present
WF02.13	IV	82	100	10YR 6/4	Sand	Rounded and subrounded rocks present
WF03.01	I	0	12	10YR 4/2	Sandy Loam	Fill asphalt and modern trash present not collected
WF03.01	II	12	31	10YR 4/4	Sandy Loam	Fill asphalt and modern trash present not collected
WF03.02	I	0	27	10YR 4/2	Sandy Loam	Fill asphalt and modern trash present not collected
WF03.02	II	27	38	10YR 3/3	Sandy Loam	Fill asphalt and modern trash present not collected
WF03.03	I	0	11	10YR 4/2	Sandy Loam	Rounded and subrounded rocks present
WF03.03	II	11	34	10YR 4/3	Sandy Loam	Rounded and subrounded rocks present, banded fill
WF03.03	III	34	40	10YR 5/4	Sandy Loam	Rounded and subrounded rocks present, excavation impasse for significant compaction
WF03.04	I	0	32	10YR 4/2	Sandy Loam	Fill asphalt and modern trash present not collected
WF03.05	I	0	18	10YR 4/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
WF03.05	II	18	45	10YR 4/3	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), very compact, banded fill mixed with 2/2 and 4/6 sand. Ended for compaction.
WF03.06	I	0	34	10YR 4/2	Sandy Loam	Rounded and subrounded rocks present, fill
WF03.06	II	34	64	10YR 5/4	Sandy Loam	Rounded and subrounded rocks present
WF03.06	III	64	70	10YR 5/2	Sandy Clay	Excavation impasse for significant compaction
WF03.07	I	0	30	10YR 4/2	Sandy Loam	Fill with trash
WF03.07	II	30	42	10YR 2/2	Sandy Loam	Buried A
WF03.07	III	42	62	10YR 4/6	Sand	B1

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
WF03.07	IV	62	75	10YR 5/4	Sand	B2
WF03.07	V	75	96	10YR 6/3	Sand	Coarse sand subsoil
WF04.01	I	0	27	10YR 4/2	Sandy Loam	Fill asphalt and modern trash present not collected, asbestos tile present
WF04.02	I	0	32	10YR 4/2	Sandy Loam	Rounded and subrounded rocks present, fill
WF04.02	II	32	40	10YR 4/1	Sandy Loam	Rounded and subrounded rocks present
WF04.02	III	40	65	10YR 5/4	Sand	Rounded and subrounded rocks present
WF04.02	IV	65	100	10YR 5/6	Sand	Rounded and subrounded rocks present
WF04.03	I	0	67	10YR 4/2	Sandy Loam	Fill asphalt and modern trash present not collected
WF04.03	II	67	100	10YR 4/3	Sandy Loam	Fill asphalt and modern trash present not collected
WF04.04	I	0	20	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)
WF04.04	II	20	80	10YR 4/3	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), banded fill mixed with 2/2 and 5/4 sand. Becomes compact towards base of STP, ended for compaction impasse.
WF04.05	I	0	31	10YR 4/2	Sandy Loam	Fill asphalt and modern trash present not collected
WF04.05	II	31	48	10YR 4/3	Sandy Loam	Fill asphalt and modern trash present not collected
WF04.05	III	48	68	10YR 5/4	Sandy Loam	B compacted
WF04.06	I	0	36	10YR 4/2	Sandy Loam	Rounded and subrounded rocks present
WF04.06	II	36	76	10YR 4/4	Sandy Loam	Rounded and subrounded rocks present
WF04.06	III	76	100	10YR 5/4	Sand	Rounded and subrounded rocks present
WF04.07	I	0	23	10YR 4/2	Sandy Loam	Fill dense with trash and asphalt
WF04.07	II	23	36	10YR 5/6	Loamy Sand	Fill layer with dense asphalt and roots leading to impasse
WF04.08	I	0	14	10YR 4/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded)

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
WF04.08	II	14	25	10YR 4/3	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded)
WF04.08	III	25	40	10YR 2/2	Sandy Loam	Buried A
WF04.08	IV	40	100	10YR 5/6	Sand	Rocks and gravel present (well rounded, rounded, and sub rounded), ended for meter deep
WF04.09	I	0	39	10YR 4/2	Sandy Loam	Fill asphalt and modern trash present not collected
WF04.09	II	39	64	10YR 5/4	Sandy Loam	B1
WF04.09	III	64	87	10YR 5/6	Sandy Loam	B2
WF04.09	IV	87	100	7.5YR 5/4	Sand	None
WF04.10	I	0	36	10YR 4/2	Sandy Loam	Rounded and subrounded rocks present
WF04.10	II	36	70	10YR 5/4	Sandy Loam	Rounded and subrounded rocks present
WF04.10	III	70	100	7.5YR 5/6	Sand	Rounded and subrounded rocks present
WF04.11	I	0	23	10YR 4/2	Sandy Loam	Fill with trash
WF04.11	II	23	57	10YR 4/6	Sandy Loam	B1
WF04.11	III	57	54	10YR 5/4	Loamy Sand	B2
WF04.11	IV	54	100	10YR 6/3	Sand	Coarse sand subsoil with cobbles and oxidation
WF04.12	I	0	42	10YR 4/2	Sandy Loam	Fill with dense pockets of asphalt
WF04.12	II	42	70	10YR 6/4	Sand	Coarse sand with cobbles and asphalt
WF04.12	III	70	100	10YR 6/3	Sand	Coarse sand with cobbles, sterile subsoil
WF04.13	I	0	22	10YR 4/2	Sandy Loam	Fill asphalt and modern trash present not collected
WF04.13	I	0	22	10YR 4/2	Sandy Loam	Fill asphalt and modern trash present not collected
WF04.13	II	22	53	10YR 3/3	Sandy Loam	Fill asphalt and modern trash present not collected
WF04.13	II	22	53	10YR 3/3	Sandy Loam	Fill asphalt and modern trash present not collected
WF04.13	III	53	61	10YR 5/4	Loamy Sand	B1 extremely compacted

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
WF04.13	III	53	61	10YR 5/4	Loamy Sand	B1 extremely compacted
WF04.14	I	0	10	10YR 3/2	Sandy Loam	Rocks and gravel present (well rounded, rounded, and sub rounded, ended for wasp nest.
WF04.15	I	0	34	10YR 4/2	Sandy Loam	Rounded and subrounded rocks present
WF04.15	II	34	70	10YR 5/4	Sandy Loam	Rounded and subrounded rocks present
WF04.15	III	70	100	10YR 5/6	Sand	Rounded and subrounded rocks present
WF04.16	I	0	20	10YR 4/3	Sandy Loam	Fill
WF04.16	II	20	50	10YR 4/2	Sandy Loam	None
WF04.16	III	50	100	10YR 5/4	Sandy Loam	None
WF04.17	I	0	32	10YR 4/2	Sandy Loam	Banded zone
WF04.17	II	32	60	10YR 5/3	Sandy Loam	Fill
WF04.17	III	60	100	10YR 4/3	Sandy Loam	None
WF04.18	I	0	24	10YR 4/2	Sand	Fill mixed with 10YR 6/1, asphalt at base of STP
WF04.21	I	0	36	10YR 4/3	Loamy Sand	Fill with asphalt
WF04.21	II	36	68	10YR 5/6	Loamy Sand	B1
WF04.21	III	68	83	10YR 5/6	Sand	B2
WF04.21	IV	83	100	10YR 6/3	Sand	Coarse sand subsoil with oxidation
WF04.22	I	0	40	10YR 4/2	Sandy Loam	Banded fill
WF04.22	II	40	64	10YR 5/2	Sandy Loam	Banded fill
WF04.22	III	64	100	10YR 4/6	Sandy Loam	None
WF04.23	I	0	21	10YR 4/2	Sandy Loam	Fill with asphalt, plastic and glass
WF04.23	II	21	46	10YR 5/2	Loamy Sand	Fill with asphalt
WF04.23	III	46	63	10YR 4/6	Loamy Sand	Extremely compacted fill layer with asphalt leading to impasse. StP is on corner of block
WF05.01	I	0	26	10YR 4/2	Sandy Loam	Fill
WF05.01	II	26	57	10YR 4/6	Loamy Sand	Banded fill with 10YR 3/2
WF05.01	III	57	66	10YR 4/6	Sand	B1
WF05.01	IV	66	100	10YR 5/4	Sand	B2

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
WF05.02	I	0	24	10YR 4/3	Sandy Loam	Landscape A
WF05.02	II	24	44	10YR 5/3	Loamy Sand	Banded fill with 10YR 3/2
WF05.02	III	44	73	10YR 4/6	Sand	B1 with large rock in base of STP leading to impasse
WF06.01	I	0	39	10YR 4/2	Sandy Loam	Banded fill, rounded and subrounded rocks present
WF06.01	II	39	100	10YR 5/3	Sandy Loam	Rounded and subrounded rocks present
WF06.02	I	0	26	10YR 4/3	Sandy Loam	Fill with roadside trash and asphalt throughout
WF06.02	II	26	56	10YR 5/3	Sandy Loam	Compact, banded fill with 10YR 3/2 and asphalt
WF06.02	III	56	69	10YR 4/6	Loamy Sand	B1
WF06.02	IV	69	86	10YR 5/6	Sand	B2, interlocking cobbles leading to impasse
WF06.03	I	0	28	10YR 4/3	Sandy Loam	Fill with roadside trash and asphalt
WF06.03	II	28	100	10YR 5/2	Loamy Sand	Banded fill to a meter with 10YR 4/6, 10YR 6/4 and pockets of 10YR 3/2. Glass and asphalt throughout
WF06.04	I	0	24	10YR 4/2	Sandy Loam	Fill
WF06.04	II	24	50	10YR 4/3	Sandy Loam	None
WF06.04	III	50	73	10YR 4/4	Sandy Loam	None
WF06.05	I	0	12	10YR 4/2	Sandy Loam	Landscape A
WF06.05	II	12	73	10YR 6/2	Sand	Fine to medium sand fill with metal fragments, aluminum, asphalt, and plastic trash
WF06.05	III	73	85	10YR 4/6	Sand	B1
WF06.05	IV	85	100	10YR 5/6	Sand	B2
WF07.01	I	0	21	10YR 4/1	Sandy Loam	Fill
WF07.01	II	21	37	10YR 4/6	Sandy Loam	None
WF07.01	III	37	53	10YR 4/4	Sandy Loam	None
WF07.02	I	0	19	10YR 4/2	Sandy Loam	Fill, rounded and subrounded rocks present
WF07.02	II	19	30	10YR 4/4	Sandy Loam	Rounded and subrounded rocks present

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
WF07.02	III	30	50	10YR 5/3	Sandy Loam	Rounded and subrounded rocks present, excavation impasse for significant compaction
WF07.03	I	0	19	10YR 6/4	Sand	Fill
WF07.03	II	19	29	10YR 4/2	Sandy Loam	None
WF07.03	III	29	36	10YR 5/4	Sandy Loam	None
WF07.04	I	0	8	10YR 4/2	Sandy Loam	Fill with glass and asphalt
WF07.04	II	8	42	10YR 5/3	Sandy Loam	Compact banded fill with 10YR 3/3
WF07.04	III	42	47	10YR 4/6	Sandy Loam	Extremely compact fill with glass and asphalt, compaction impasse at 47cmbs
WF07.05	I	0	27	10YR 4/3	Sandy Loam	Fill with glass, plastic and asphalt
WF07.05	II	27	67	10YR 4/6	Sandy Loam	Compact banded fill with 10YR 2/2 and asphalt chunks
WF07.05	III	67	73	10YR 5/6	Sand	Truncated B2 with cobbles
WF07.05	IV	73	94	10YR 6/3	Sand	Coarse sand subsoil with oxidation and cobbles
WF07.06	I	0	13	10YR 4/3	Sandy Loam	Landscape A
WF07.06	II	13	51	10YR 4/6	Sandy Loam	Banded, rocky and compact fill with 10YR 2/2 and asphalt inclusions leading to impasse at 51cmbs
WF07.07	I	0	46	10YR 3/4	Sandy Loam	Compact fill with asphalt, glass and pockets of 10YR 6/2
WF07.07	II	46	71	10YR 3/4	Sand	Sandy fill with glass and asphalt throughout strat
WF07.07	III	71	100	10YR 5/6	Sand	B2; medium to coarse sand with cobbles
WF07.08	I	0	25	10YR 4/6	Sandy Loam	Compacted fill with glass throughout
WF07.08	II	25	63	10YR 4/4	Sand	Compacted sand fill with glass, plastic, and asphalt present throughout. Rock/asphalt impasse at 63
WF07.09	I	0	13	10YR 5/2	Sand	Heavily compacted
WF07.09	II	13	22	10YR 4/4	Sandy Loam	Heavily compacted
WF07.10	I	0	25	10YR 4/2	Sandy Loam	Fill with asphalt and glass

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
WF07.10	II	25	61	10YR 5/4	Loamy Sand	Banded fill with 10YR 3/2 and 10YR 4/6
WF07.10	III	61	78	10YR 4/6	Loamy Sand	Concreted fill layer with asphalt chunks. Compaction impasse at 78cmbs
WF07.11	I	0	11	10YR 4/2	Sandy Loam	Rounded and subrounded rocks present
WF07.11	II	11	40	10YR 4/4	Sandy Loam	Rounded and subrounded rocks present, excavation impasse for significant compaction
WF07.12	I	0	23	10YR 4/2	Sandy Loam	None
WF07.12	II	23	43	10YR 5/4	Sandy Loam	Banded fill
WF07.12	III	43	100	10YR 4/6	Sandy Loam	None
WF08.01	I	0	24	10YR 4/2	Sandy Loam	Rounded and subrounded rocks present
WF08.01	II	24	60	10YR 3/3	Sandy Loam	Rounded and subrounded rocks present
WF08.01	III	60	65	10YR 5/3	Sand	Rounded and subrounded rocks present, excavation impasse for buried utilities caution tape
WF08.02	I	0	15	10YR 5/2	Sandy Loam	None
WF08.02	II	15	53	10YR 4/4	Sandy Loam	None
WF08.02	III	53	100	10YR 3/2	Sandy Loam	Banded fill
WF08.03	I	0	24	10YR 4/2	Sandy Loam	Rounded and subrounded rocks present
WF08.03	II	24	41	10YR 4/6	Sandy Loam	Rounded and subrounded rocks present, excavation impasse for buried electric
Gr01.01	I	0	52	10YR 2/2	Sandy Loam	Modern trash on top, not collected.
Gr01.01	II	52	100	10YR 5/6	Sandy Loam	None
Gr01.02	I	0	24	10YR 2/2	Sandy Loam	Redeposited A. Plastic, styrofoam, glass, asphalt not collected
Gr01.02	II	24	59	10YR 4/6	Sand	BW
Gr01.02	III	59	86	10YR 5/6	Sand	BC coarse sand
Gr01.02	IV	86	110	10YR 6/2	Sand	C
LI01.01	I	0	13	10YR 3/3	Loamy Sand	A
LI01.01	II	13	30	10YR 4/4	Loamy Sand	Bw1
LI01.01	III	30	60	7.5YR 5/6	Loamy Sand	Bw2

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
LI01.01	IV	60	83	7.5YR 5/4	Sand	BC
LI01.01	V	83	101	10YR 5/6	Sand	C
LI01.02	I	0	8	10YR 3/2	Loamy Sand	A
LI01.02	II	8	29	7.5YR 4/4	Loamy Sand	Bw1
LI01.02	III	29	53	7.5YR 5/4	Loamy Sand	Bw2
LI01.02	IV	53	78	10YR 5/6	Sand	BC
LI01.02	V	78	100	10YR 6/2	Sand	C
LI01.03	I	0	13	10YR 3/2	Loamy Sand	A
LI01.03	II	13	47	10YR 4/1	Sandy Loam	Bw
LI01.03	III	47	70	10YR 4/2	Sandy Loam	Bw2
LI01.03	IV	70	86	10YR 6/8	Sand	BC
LI01.03	V	86	100	10YR 6/2	Sand	C
LI01.04	I	0	6	10YR 2/2	Sandy Loam	None
LI01.04	II	6	77	10YR 5/6	Sandy Loam	None
LI01.05	I	0	14	10YR 2/2	Sandy Loam	Redeposited A
LI01.05	II	14	69	10YR 4/6	Sand	Cobbly BW. Mixing with A horizon near top
LI01.05	III	69	90	10YR 5/6	Sand	Coarse sand BC
LI01.05	IV	90	101	10YR 6/2	Sand	C
LI01.06	I	0	20	10YR 2/2	Sandy Loam	Modern trash found on top, not collected. Metal pieces
LI01.06	II	20	78	10YR 5/6	Sandy Loam	None
LI01.06	III	78	100	10YR 6/6	Sandy Loam	None
LI01.07	I	0	15	10YR 2/2	Sandy Loam	Modern trashnot collected. Metals.
LI01.07	II	15	50	10YR 5/6	Sand	None
LI01.07	III	50	68	10YR 6/6	Sand	None
LI01.09	I	0	15	10YR 2/2	Sand	None
LI01.09	II	15	55	10YR 5/6	Sand	None
LI01.09	III	55	85	10YR 6/6	Sand	None
LI01.09	IV	85	100	10YR 6/3	Sand	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
LI01.10	I	0	25	10YR 4/2	Sandy Loam	None
LI01.10	II	25	70	10YR 4/4	Sandy Clay Loam	Root impass. Stp was placed between three large trees. One piece of glass was found and discarded.
LI01.11	I	0	28	10YR 4/2	Sandy Loam	None
LI01.11	II	28	100	10YR 4/6	Sandy Loam	None
LI01.12	I	0	10	10YR 2/2	Sandy Loam	None
LI01.12	II	10	42	10YR 5/6	Sand	None
LI01.12	III	42	68	10YR 6/6	Sand	None
LI01.12	IV	68	82	10YR 6/3	Sand	None
LI01.13	I	0	8	10YR 2/2	Sandy Loam	None
LI01.13	II	8	18	10YR 5/6	Sand	Fill
LI01.13	III	18	25	10YR 4/1	Sand	Buried natural ground surface65
LI01.13	IV	25	65	10YR 5/6	Sand	None
LI01.13	V	65	85	10YR 6/6	Sand	None
LI01.14	I	0	20	10YR 4/2	Sandy Loam	Modern trash not collected. Plastic and styrofoam.
LI01.14	II	20	55	10YR 5/6	Sandy Loam	Few rocks and gravels.
LI01.15	I	0	26	10YR 4/2	Sandy Loam	None
LI01.15	II	26	43	10YR 5/6	Sandy Loam	None
LI01.15	III	43	69	10YR 6/3	Sand	None
LI01.16	I	0	30	10YR 4/2	Sandy Loam	Ap
LI01.16	II	30	79	7.5YR 5/4	Loamy Sand	Bw
LI01.16	III	79	100	10YR 6/6	Sand	BC
LI01.17	I	0	43	10YR 4/2	Sandy Loam	Ap
LI01.17	II	43	68	10YR 5/4	Loamy Sand	Bw1
LI01.17	III	68	85	10YR 5/6	Loamy Sand	Bw2
LI01.17	IV	85	100	10YR 6/6	Sand	BC
LI01.18	I	0	53	10YR 3/3	Sandy Loam	Plowzone
LI01.18	II	53	100	10YR 4/6	Sandy Loam	Bw. Stop for depth

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
LI01.19	I	0	60	10YR 4/2	Sandy Loam	None
LI01.19	II	60	100	10YR 6/4	Sandy Loam	None
LI01.20	I	0	33	10YR 4/3	Sandy Loam	Ap
LI01.20	II	33	58	7.5YR 5/4	Loamy Sand	Bw1
LI01.20	III	58	86	10YR 5/4	Loamy Sand	Bw2
LI01.20	IV	86	100	10YR 6/6	Sand	BC
LI01.21	I	0	31	10YR 2/2	Sandy Loam	Plow zone
LI01.21	II	31	100	10YR 4/6	Sandy Loam	BW
LI01.22	I	0	12	10YR 3/2	Sandy Loam	A/Ao
LI01.22	II	12	102	7.5YR 5/4	Sandy Loam	Redeposited Bw on berm adjacent to railroad corridor
LI01.98	I	0	13	10YR 2/2	Sandy Loam	Redeposited A
LI01.98	II	13	42	10YR 5/2	Sand	BW 1
LI01.98	III	42	63	10YR 5/6	Sand	BW 2
LI01.98	IV	63	71	7.5YR 5/6	Sand	BC coarse sand
LI01.98	V	71	93	10YR 7/1	Sand	C
Mn01.01	I	0	7	10YR 4/3	Sandy Loam	None
Mn01.01	II	7	17	10YR 5/2	Sandy Loam	None
Mn01.01	III	17	21	10YR 2/1	Sandy Loam	Buried A
Mn01.01	IV	21	54	10YR 5/1	Sandy Loam	Mottled with 10 YR 2/1 amd 10 YR 4/4
Mn01.01	V	54	70	10YR 4/4	Sandy Loam	Very Compact
Mn01.02	I	0	18	10YR 4/1	Sandy Loam	Very rooty
Mn01.02	II	18	33	10YR 4/2	Sandy Loam	Very compact
Mn01.02	III	33	41	10YR 5/4	Sandy Loam	Very compact
Mn01.03	I	0	8	10YR 4/1	Sandy Loam	Modern trash. Not collected. Plastic and glass.
Mn01.03	II	8	40	10YR 4/2	Sand	Modern trash not collected. Metal and bottle glass.
Mn01.03	III	40	48	10YR 5/4	Sand	Very compact

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
Mn01.04	I	0	14	10YR 2/2	Sandy Loam	Disturbed redeposited A
Mn01.04	II	14	28	10YR 5/1	Sand	Disturbed E/Bw, push. Very compact
Mn01.04	III	28	49	10YR 4/4	Sand	Very compact heavily disturbed. Mottled with 10YR5/1 and 10YR 2/2
Mn01.04	IV	49	60	10YR 4/4	Sand	Very compact stop for compaction
Mn01.05	I	0	28	10YR 5/1	Sandy Loam	Mottled with other fill, disturbed
Mn01.05	II	28	61	10YR 5/6	Sandy Loam	Very compact
Mn01.05	III	61	100	10YR 5/6	Sandy Clay	None
Mn01.06	I	0	22	10YR 3/2	Sandy Loam	Push from railroad tracks. Redeposited A
Mn01.06	II	22	64	10YR 4/4	Sand	BW, slightly compact
Mn01.06	III	64	100	10YR 4/6	Sand	BW 2. Stop for depth
Mn01.07	I	0	20	10YR 5/1	Silt Loam	Garbage on surface. Modern trash. Not collected.
Mn01.07	II	20	55	10YR 5/6	Sand	None
Mn01.07	III	55	80	10YR 5/6	Sandy Clay	Many roots
Mn01.07	IV	80	100	10YR 5/6	Sand	None
Mn01.08	I	0	39	10YR 3/1	Sandy Loam	Disturbed top soil
Mn01.08	II	39	75	10YR 5/6	Sandy Loam	Very compact
Mn01.08	III	75	100	10YR 5/6	Sandy Clay	Very compact
Mn02.01	I	0	24	10YR 2/2	Sandy Loam	Redeposited A
Mn02.01	II	24	90	10YR 4/6	Sand	BW
Mn02.01	III	90	103	10YR 5/6	Sand	Coarse sand BC. Stop for depth
Mn02.02	I	0	15	10YR 4/1	Sand	Modern trash pile adjacent to roadway not collected.
Mn02.02	II	15	39	10YR 5/6	Sand	Very compact
Mn02.03	I	0	15	10YR 4/3	Sandy Loam	Glass and plastic observed and discarded
Mn02.03	II	15	26	10YR 4/4	Sandy Loam	None
Mn02.03	III	26	38	10YR 4/2	Sandy Loam	Buried A horizon
Mn02.03	IV	38	100	10YR 4/6	Sandy Loam	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
Mn02.04	I	0	20	10YR 5/1	Sandy Loam	Mixed with fill
Mn02.04	II	20	44	10YR 2/2	Sandy Loam	Another fill
Mn02.04	III	44	51	10YR 5/6	Sandy Loam	Appears to be natural soil underneath the two fills
Mn03.01	I	0	20	10YR 4/3	Sandy Loam	Fill and churned soils adjacent to roadway. Modern trash not collected. Asphalt chunks and 1 brick frag.
Mn03.01	II	20	71	10YR 5/6	Sand	None
Mn03.02	I	0	26	10YR 2/2	Sandy Loam	Redeposited A
Mn03.02	II	26	68	10YR 4/6	Sandy Loam	BW 1
Mn03.02	III	68	89	10YR 4/6	Sand	Cobbly coarse sand BW 2
Mn03.02	IV	89	100	10YR 6/1	Sand	Coarse sand C
Mn03.03	I	0	22	10YR 4/3	Sandy Loam	A
Mn03.03	II	22	80	7.5YR 5/6	Sandy Loam	Bw1
Mn03.03	III	80	100	10YR 5/4	Loamy Sand	BC
Mn03.04	I	0	50	10YR 4/2	Sandy Loam	Upper half of level had some plastic, styrofoam, and glass while the bottom half had chunks of concrete and asphalt. All was discarded shovel test is within 5m of powerpoles.
Mn03.04	II	50	100	10YR 4/4	Sandy Loam	None
Mn03.05	I	0	29	10YR 4/3	Sandy Loam	Fill and disturbed with modalling. Bricks in wall and asphalt and modern trash not collected.
Mn03.05	II	29	54	10YR 4/4	Sandy Loam	Modern trash not collected. Disturbed fill.
Mn03.05	III	54	61	10YR 5/4	Sandy Loam	Compact with mixed oxidation
Mn03.06	I	0	18	10YR 2/2	Sandy Loam	Highly disturbed fill horizon with 50-70% asphalt gravel and larger slab fragments

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
Mn03.07	I	0	12	10YR 2/2	Sandy Loam	Redeposited A. Plastic, styrofoam, glass, asphalt not collected . Along road
Mn03.07	II	12	51	10YR 5/2	Sand	Disturbed, mixed push along road. Mottled with 10YR 6/2 and 10YR 4/3. Plastic, glass, asphalt not collected
Mn03.07	III	51	76	10YR 5/3	Sandy Loam	Slightly compact
Mn03.07	IV	76	103	10YR 4/6	Sandy Loam	Same as BW 1 in surrounding area. Slightly compact . Stop for depth
Mn03.08	I	0	32	10YR 4/2	Loamy Sand	Redposited A with rocks and modern trash
Mn03.08	II	32	58	10YR 5/4	Sand	Redposited C with modern trash
Mn03.08	III	58	81	10YR 4/2	Loamy Sand	Redeposited/disturbed Ab with gravels and modern trash
Mn03.08	IV	81	103	10YR 5/6	Sand	Bw, under disturbed fill packages
Mn03.09	I	0	15	10YR 4/3	Sandy Loam	Modern trash not collected.
Mn03.09	II	15	45	10YR 5/6	Sand	Modern trash not collected
Mn03.09	III	45	85	10YR 6/6	Sand	None
Mn03.09	IV	85	100	10YR 5/4	Sand	None
Mn03.10	I	0	10	10YR 4/2	Sandy Loam	Glass, asphalt and plastic discarded
Mn03.10	II	10	88	10YR 4/6	Sandy Loam	Glass and asphalt discarded. Excavation stopped for root impass.
NI02.101	I	0	15	10YR 4/2	Sandy Loam	A, compacted
NI02.101	II	15	40	10YR 5/6	Sand	Bw1
NI02.101	III	40	83	10YR 5/8	Sand	Bw2
NI02.101	IV	83	100	10YR 6/6	Sand	BC
NI04.01	I	0	23	10YR 3/2	Sandy Loam	Disturbed push pile. Modern trash on surface
NI04.01	II	23	88	10YR 4/6	Sandy Loam	Rocks start occurring at 67 cm in strat

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI04.02	I	0	45	10YR 2/1	Sand	Heavy leaf litter dump on surface removed. Full of not collected modern garbage. Adjacent to guardrail/walkway
NI04.02	II	45	81	10YR 6/6	Sand	None
NI04.03	I	0	45	10YR 3/1	Sand	Fill with modern trash
NI04.03	II	45	67	10YR 5/6	Sand	Fill 2 with trash and compaction impasse
NI04.04	I	0	20	10YR 2/2	Sandy Loam	Modern trash. Not collected.
NI04.04	II	20	58	10YR 5/6	Sand	None
NI04.04	III	58	80	10YR 6/6	Sand	None
NI04.04	IV	80	92	10YR 6/3	Sand	None
NI04.05	I	0	32	10YR 4/1	Loamy Sand	Fill with dense road gravel
NI04.05	II	32	67	10YR 5/6	Sand	Bw2
NI04.05	III	67	89	10YR 6/3	Sand	BC
NI04.05	IV	89	100	10YR 6/2	Sand	Coarse sand subsoil
NI04.06	I	0	26	10YR 2/2	Sandy Loam	Redeposited A
NI04.06	II	26	70	10YR 4/6	Sand	BW
NI04.06	III	70	89	10YR 5/6	Sand	BC coarse sand
NI04.06	IV	89	100	10YR 6/3	Sand	None
NI04.07	I	0	9	10YR 3/2	Sandy Loam	Disturbed topsoil
NI04.07	II	9	18	10YR 5/1	Sandy Loam	None
NI04.08	I	0	20	10YR 2/2	Sandy Loam	Adjacent to wire fenceline
NI04.08	II	20	60	10YR 5/6	Sand	None
NI04.08	III	60	89	10YR 6/6	Sand	None
NI04.08	IV	89	100	10YR 6/3	Sand	Meter deep
NI04.09	I	0	16	10YR 4/1	Sand	Disturbed A
NI04.09	II	16	48	10YR 5/6	Sand	Bw1 with root impasse
NI04.10	I	0	20	10YR 2/2	Sand	None
NI04.10	II	20	90	10YR 5/6	Sand	None
NI04.10	III	90	100	10YR 6/6	Sand	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI04.11	I	0	34	10YR 4/2	Sandy Loam	A/E/Bw mix, compacted, mixed with 10YR 7/1 and 10YR 5/6
NI04.11	II	34	54	10YR 5/6	Loamy Sand	Bw1
NI04.11	III	54	100	10YR 5/8	Loamy Sand	Bw2
NI04.12	I	0	32	10YR 4/1	Sand	Fill
NI04.12	II	32	63	10YR 4/6	Sand	Bw1
NI04.12	III	63	89	10YR 5/6	Sand	Bw2
NI04.12	IV	89	100	10YR 6/3	Sand	BC
NI04.13	I	0	12	10YR 2/2	Sand	Modern trash not collected
NI04.13	II	12	40	10YR 5/1	Sand	Very compact soils
NI04.14	I	0	29	10YR 2/2	Sandy Loam	Redeposited A with BW mixed in
NI04.14	II	29	84	10YR 4/6	Sand	BW 1
NI04.14	III	84	97	10YR 5/6	Sand	Very cobbly BW 2. Stop for 1 m depth/rock impasse
NI04.15	I	0	10	10YR 2/2	Sandy Loam	None
NI04.15	II	10	71	10YR 4/6	Sandy Loam	None
NI04.15	III	71	80	10YR 6/6	Sandy Loam	None
NI04.15	IV	80	90	10YR 6/3	Sand	None
NI04.16	I	0	16	10YR 2/1	Sandy Loam	A horizon. Humus, decomposing log
NI04.16	II	16	23	10YR 7/1	Sand	E horizon
NI04.16	III	23	94	10YR 4/6	Sand	BW horizon
NI04.16	IV	94	110	10YR 5/6	Sand	BC coarse sand. Some evidence of 6/3 subsoil at very bottom. Stop for 1 m depth
NI04.17	I	0	22	10YR 3/2	Sandy Loam	None
NI04.17	II	22	83	10YR 4/6	Sandy Loam	None
NI04.17	III	83	93	10YR 6/3	Sand	None
NI04.18	I	0	27	10YR 2/2	Sandy Loam	Redeposited A mixed with disturbed BW. Inside fence
NI04.18	II	27	59	10YR 4/6	Sand	Disturbed BW mixed with redeposited A

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI04.18	III	59	84	10YR 5/6	Sand	BC coarse sand
NI04.18	IV	84	96	10YR 6/3	Sand	None
NI04.19	I	0	10	10YR 4/2	Sandy Loam	A
NI04.19	II	10	42	10YR 5/6	Loamy Sand	Bw1
NI04.19	III	42	85	10YR 5/8	Loamy Sand	Bw2
NI04.19	IV	85	100	10YR 6/6	Sand	BC
NI04.20	I	0	10	10YR 3/2	Sandy Loam	None
NI04.20	II	10	80	10YR 5/6	Sandy Loam	None
NI04.20	III	80	90	10YR 6/3	Sand	None
NI04.21	I	0	18	10YR 2/2	Sandy Loam	A
NI04.21	II	18	60	10YR 4/6	Sand	BW 1
NI04.21	III	60	91	10YR 5/6	Sand	Very cobbly BW 2
NI04.21	IV	91	101	10YR 6/3	Sand	None
NI04.22	I	0	9	10YR 4/2	Sandy Loam	A/Ao, mixed with 10YR 7/2
NI04.22	II	9	32	7.5YR 5/6	Loamy Sand	Bw1
NI04.22	III	32	56	10YR 5/8	Loamy Sand	Bw2, compacted
NI04.22	IV	56	80	10YR 6/6	Sand	BC
NI04.22	V	80	100	10YR 6/2	Sand	C
NI04.23	I	0	14	10YR 4/2	Sand	Disturbed A with trash
NI04.23	II	14	87	10YR 5/6	Sand	Redeposited B soils with compaction impasse
NI04.24	I	0	8	10YR 4/2	Sandy Loam	A/Ao
NI04.24	II	8	19	10YR 7/2	Sandy Loam	E
NI04.24	III	19	30	10YR 5/6	Loamy Sand	Bw1
NI04.24	IV	30	55	10YR 5/8	Sand	Bw2,compact
NI04.24	V	55	100	10YR 6/6	Sand	BC, then C from 84-100. C is 10 YR 6/2 sand, very rocky
NI04.25	I	0	5	10YR 2/2	Sandy Loam	Modern trash. Not collected
NI04.25	II	5	10	10YR 7/1	Sand	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI04.25	III	10	52	10YR 5/6	Sand	None
NI04.26	I	0	10	10YR 3/2	Sandy Loam	None
NI04.26	II	10	62	10YR 5/6	Sandy Loam	None
NI04.26	III	62	89	10YR 6/6	Sandy Loam	None
NI04.26	IV	89	99	10YR 6/3	Sand	None
NI04.27	I	0	12	10YR 2/2	Sand	Modern trash. Not collected.
NI04.27	II	12	15	10YR 5/1	Sand	None
NI04.27	III	15	62	10YR 5/6	Sand	None
NI04.28	I	0	20	10YR 2/2	Sand	None
NI04.28	II	20	65	10YR 5/6	Sand	None
NI04.28	III	65	82	10YR 6/6	Sand	None
NI04.29	I	0	24	10YR 4/2	Sand	Disturbed A
NI04.29	II	24	57	10YR 5/6	Sand	Bw1
NI04.29	III	57	78	10YR 6/4	Sand	Bw2
NI04.29	IV	78	102	10YR 6/3	Sand	BC
NI04.30	I	0	14	10YR 3/2	Sandy Loam	None
NI04.30	II	14	92	10YR 5/6	Sandy Loam	None
NI04.30	III	92	101	10YR 6/6	Sandy Loam	None
NI04.31	I	0	21	10YR 2/2	Sandy Loam	Redeposited A
NI04.31	II	21	89	10YR 4/6	Sand	BW
NI04.31	III	89	108	10YR 5/6	Sand	Very cobbly coarse sand BW 2. Stop for 1 m depth
NI04.32	I	0	10	10YR 2/2	Sandy Loam	Modern trash - not collected.
NI04.32	II	10	15	10YR 5/1	Sand	None
NI04.32	III	15	80	10YR 5/6	Sand	None
NI04.32	IV	80	100	10YR 6/6	Sand	None
NI04.33	I	0	54	10YR 4/2	Sandy Loam	Fill with modern trash
NI04.33	II	54	90	10YR 4/6	Sand	Redeposited B
NI04.33	III	90	100	10YR 5/6	Sand	Bw2

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI04.34	I	0	10	10YR 3/2	Sandy Loam	None
NI04.34	II	10	83	10YR 5/6	Sandy Loam	None
NI04.34	III	83	90	10YR 6/6	Sandy Loam	None
NI05.01	I	0	26	10YR 2/2	Sandy Loam	Redeposited A next to pipeline and residential fence
NI05.01	II	26	79	10YR 4/6	Sand	Disturbed BW 1. Many roots
NI05.01	III	79	90	10YR 5/6	Sand	Coarse sand BC
NI05.01	IV	90	100	10YR 6/3	Sand	None
NI05.01	V	100		NONE/NONE		None
NI05.02	I	0	38	10YR 4/2	Sandy Loam	A/Ao, disturbed near fence line
NI05.02	II	38	62	7.5YR 5/6	Loamy Sand	Bw1
NI05.02	III	62	103	10YR 5/8	Loamy Sand	Bw2
NI05.03	I	0	24	10YR 4/2	Loamy Sand	Redeposited A
NI05.03	II	24	51	10YR 4/6	Sand	Bw1
NI05.03	III	51	81	10YR 6/3	Sand	Bw2
NI05.03	IV	81	100	10YR 6/3	Sand	BC
NI05.04	I	0	15	10YR 4/4	Sandy Loam	Disturbed brush pile
NI05.04	II	15	87	10YR 5/6	Sandy Loam	None
NI05.04	III	87	93	10YR 6/6	Sandy Loam	None
NI05.04	IV	93	103	10YR 6/3	Sand	None
NI05.05	I	0	72	10YR 5/2	Sandy Loam	A/E/Bw mixed deposit on edge of power line corridor
NI05.05	II	72	102	10YR 6/6	Sand	BC
NI05.06	I	0	20	10YR 2/2	Sandy Loam	None
NI05.06	II	20	24	10YR 5/1	Sand	None
NI05.06	III	24	100	10YR 5/6	Sand	None
NI05.07	I	0	32	10YR 2/2	Sandy Loam	Redeposited A
NI05.07	II	32	92	10YR 4/6	Sand	BW
NI05.07	III	92	100	10YR 5/6	Sand	BC coarse sand. Stop for 1 m depth

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI05.08	I	0	14	10YR 4/2	Loamy Sand	A
NI05.08	II	14	43	10YR 5/6	Sand	Bw1
NI05.08	III	43	87	10YR 5/8	Sand	Bw2
NI05.08	IV	87	100	10YR 6/6	Sand	BC
NI05.09	I	0	21	10YR 4/2	Sand	Disturbed A
NI05.09	II	21	68	10YR 5/6	Sand	Disturbed Bw1 and Bw2
NI05.09	III	68	100	10YR 6/3	Sand	BC
NI05.10	I	0	12	10YR 4/4	Sandy Loam	None
NI05.10	II	12	73	10YR 5/6	Sandy Loam	None
NI05.11	I	0	10	10YR 4/2	Loamy Sand	A
NI05.11	II	10	33	10YR 5/6	Sand	Bw
NI05.11	III	33	72	10YR 5/8	Sand	Bw2
NI05.11	IV	72	100	10YR 6/6	Sand	BC
NI05.12	I	0	20	10YR 2/2	Sandy Loam	None
NI05.12	II	20	70	10YR 5/6	Sand	None
NI05.12	III	70	100	10YR 6/6	Sand	Very compact
NI05.13	I	0	14	10YR 4/2	Loamy Sand	A
NI05.13	II	14	41	10YR 5/6	Sand	Bw1
NI05.13	III	41	85	10YR 5/8	Sand	Bw2
NI05.13	IV	85	101	10YR 6/6	Sand	BC
NI05.14	I	0	32	10YR 2/2	Sandy Loam	Redeposited A beneath power lines
NI05.14	II	32	90	10YR 4/6	Sand	BW
NI05.14	III	90	110	10YR 5/6	Sand	BC. Stop for depth
NI05.15	I	0	21	10YR 4/2	Sand	Disturbed A with trash
NI05.15	II	21	48	10YR 4/6	Sand	Disturbed bw1
NI05.15	III	48	100	10YR 5/6	Sand	Bw2
NI05.16	I	0	19	10YR 4/4	Sandy Loam	None
NI05.16	II	19	100	10YR 5/6	Sandy Loam	None
NI05.17	I	0	15	10YR 4/2	Loamy Sand	A

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI05.17	II	15	56	10YR 5/6	Sand	Bw1
NI05.17	III	56	88	10YR 5/8	Sand	Bw2
NI05.17	IV	88	100	10YR 6/6	Sand	BC
NI05.18	I	0	28	10YR 2/2	Sand	None
NI05.18	II	28	100	10YR 5/6	Sand	In powerline corridor
NI05.19	I	0	22	10YR 2/2	Sandy Loam	Redeposited A
NI05.19	II	22	93	10YR 4/6	Sand	BW
NI05.19	III	93	103	10YR 6/3	Sand	Subsoil. No BW 2 or BC horizon
NI05.20	I	0	19	10YR 2/2	Sandy Loam	Redeposited A
NI05.20	II	19	96	10YR 4/6	Sand	None
NI05.20	III	96	103	10YR 6/3	Sand	None
NI05.21	I	0	53	10YR 4/6	Sand	Redeposited and mixed with 10YR 4/2
NI05.21	II	53	87	10YR 5/6	Sand	Bw2
NI05.21	III	87	100	10YR 6/3	Sand	BC
NI05.22	I	0	12	10YR 4/2	Loamy Sand	A
NI05.22	II	12	44	10YR 5/6	Sand	Bw1
NI05.22	III	44	92	10YR 5/8	Sand	Bw2
NI05.22	IV	92	104	10YR 6/6	Sand	BC
NI05.23	I	0	19	10YR 4/4	Sandy Loam	None
NI05.23	II	19	72	10YR 5/6	Sandy Loam	None
NI05.23	III	72	100	10YR 6/6	Sandy Loam	None
NI05.24	I	0	21	10YR 5/6	Sandy Loam	None
NI05.24	II	21	56	10YR 3/4	Sandy Loam	None
NI05.24	III	56	101	10YR 3/6	Sandy Loam	None
NI05.25	I	0	21	10YR 4/2	Sand	Disturbed A mixed with 10YR 3/2
NI05.25	II	21	56	10YR 5/6	Sand	Bw1
NI05.25	III	56	100	10YR 6/4	Sand	Bw2
NI05.26	I	0	12	10YR 4/2	Loamy Sand	A
NI05.26	II	12	47	10YR 5/6	Sand	Bw1

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI05.26	III	47	102	10YR 5/8	Sand	Bw2
NI05.27	I	0	18	10YR 2/2	Sandy Loam	None
NI05.27	II	18	70	10YR 5/6	Sand	None
NI05.27	III	70	100	10YR 6/6	Sand	None
NI05.28	I	0	8	10YR 5/6	Sandy Loam	None
NI05.28	II	8	58	10YR 5/6	Sandy Loam	None
NI05.28	III	58	90	10YR 5/3	Sandy Loam	None
NI05.29	I	0	17	10YR 2/2	Sandy Loam	None
NI05.29	II	17	72	10YR 5/6	Sandy Loam	None
NI05.29	III	72	99	10YR 6/6	Sandy Loam	None
NI05.29	IV	99	109	10YR 6/3	Sand	None
NI05.30	I	0	13	10YR 4/2	Loamy Sand	A
NI05.30	II	13	40	10YR 5/6	Sand	Bw1
NI05.30	III	40	75	10YR 5/8	Sand	Bw2
NI05.30	IV	75	92	10YR 6/6	Sand	BC
NI05.30	V	92	103	10YR 6/2	Sand	C
NI05.31	I	0	19	10YR 4/2	Sand	Disturbed A
NI05.31	II	19	48	10YR 5/6	Sand	Bw1
NI05.31	III	48	92	10YR 6/4	Sand	Bw2
NI05.31	IV	92	104	10YR 6/2	Sand	Subsoil
NI05.32	I	0	15	10YR 4/1	Sand	Adjacent to power structure in powerline corridor - super compact soils throughout
NI05.32	II	15	76	10YR 5/6	Sand	None
NI05.32	III	76	100	10YR 6/6	Sand	None
NI05.33	I	0	21	10YR 4/2	Sandy Loam	None
NI05.33	II	21	41	10YR 3/4	Sandy Loam	None
NI05.33	III	41	100	10YR 3/6	Sandy Loam	None
NI05.34	I	0	17	10YR 4/2	Sand	A/Bw mix fill, mixed with 10YR 5/6
NI05.34	II	17	27	10YR 4/2	Loamy Sand	Ab

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI05.34	III	27	53	10YR 5/6	Sand	Bw1
NI05.34	IV	53	84	10YR 5/8	Sand	Bw2
NI05.34	V	84	103	10YR 6/6	Sand	BC
NI05.35	I	0	21	10YR 4/2	Sandy Loam	None
NI05.35	II	21	48	10YR 3/4	Sandy Loam	None
NI05.35	III	48	95	10YR 3/6	Sandy Loam	None
NI05.35	I	0	25	10YR 4/2	Sand	Disturbed A
NI05.35	II	25	65	10YR 5/6	Sand	Bw1, redeposited in first 20cm of strat
NI05.35	III	65	100	10YR 6/3	Sand	Bw2
NI05.36	I	0	18	10YR 2/2	Sandy Loam	None
NI05.36	II	18	100	10YR 5/6	Sandy Loam	None
NI05.38	I	0	12	10YR 4/2	Loamy Sand	A
NI05.38	II	12	43	10YR 5/6	Sand	Bw1
NI05.38	III	43	98	10YR 5/8	Sand	Bw2
NI05.38	IV	98	105	10YR 6/6	Sand	BC
NI05.39	I	0	18	10YR 2/2	Sand	None
NI05.39	II	18	100	10YR 5/6	Sand	None
NI05.40	I	0	28	10YR 4/1	Loamy Sand	Disturbed A
NI05.40	II	28	49	10YR 4/6	Loamy Sand	Bw1
NI05.40	III	49	88	10YR 5/6	Sand	Bw2
NI05.40	IV	88	100	10YR 6/3	Sand	BC
NI05.41	I	0	16	10YR 2/2	Sandy Loam	A horizon
NI05.41	II	16	60	10YR 4/6	Sand	BW 1
NI05.41	III	60	84	10YR 5/6	Sand	None
NI05.41	IV	84	108	10YR 6/4	Sand	BC. Stop for depth
NI05.42	I	0	10	10YR 2/2	Sandy Loam	None
NI05.42	II	10	49	10YR 5/6	Sandy Loam	None
NI05.43	I	0	18	10YR 7/2	Sandy Loam	E soil
NI05.43	II	18	26	10YR 4/2	Sandy Loam	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI05.43	III	26	50	10YR 3/4	Sandy Loam	None
NI05.43	IV	50	100	10YR 3/6	Sandy Loam	None
NI05.44	I	0	20	10YR 2/2	Sandy Loam	Modern plastic trash not collected
NI05.44	II	20	72	10YR 5/6	Sand	None
NI05.44	III	72	84	10YR 6/6	Sand	None
NI05.44	IV	84	94	10YR 6/3	Sand	None
NI05.45	I	0	10	10YR 2/2	Sandy Loam	A horizon
NI05.45	II	10	18	10YR 7/2	Sand	E
NI05.45	III	18	55	10YR 4/6	Sand	BW 1
NI05.45	IV	55	82	10YR 5/6	Sand	BW 2
NI05.45	V	82	101	10YR 6/4	Sand	BC. Stop for depth
NI05.46	I	0	17	10YR 7/2	Sand	E
NI05.46	II	17	48	10YR 5/6	Sand	Bw1
NI05.46	III	48	89	10YR 6/4	Sand	Bw2
NI05.46	IV	89	100	10YR 6/2	Sand	Subsoil
NI05.47	I	0	10	10YR 4/2	Loamy Sand	A
NI05.47	II	10	21	10YR 7/2	Sand	E
NI05.47	III	21	68	10YR 5/6	Sand	Bw1
NI05.47	IV	68	87	10YR 5/8	Sand	Bw2
NI05.47	V	87	103	10YR 6/6	Sand	BC, C horizon at base of ex
NI05.48	I	0	13	10YR 2/2	Sandy Loam	None
NI05.48	II	13	71	10YR 5/6	Sandy Loam	None
NI05.48	III	71	100	10YR 6/6	Sandy Loam	None
NI05.49	I	0	15	10YR 4/2	Sandy Loam	None
NI05.49	II	15	84	10YR 3/4	Sandy Loam	None
NI05.49	III	84	100	10YR 6/2	Sandy Loam	None
NI05.50	I	0	16	10YR 7/2	Sand	E
NI05.50	II	16	52	10YR 4/6	Sand	Bw1
NI05.50	III	52	84	10YR 5/6	Sand	Bw2

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI05.50	IV	84	101	10YR 6/2	Sand	Subsoil
NI05.51	I	0	9	10YR 2/2	Sandy Loam	A
NI05.51	II	9	20	10YR 7/1	Sand	E
NI05.51	III	20	58	10YR 4/6	Sand	BW 1
NI05.51	IV	58	87	10YR 5/6	Sand	BW 2
NI05.51	V	87	107	10YR 6/4	Sand	BC. Stop for depth
NI05.52	I	0	10	10YR 2/2	Sand	None
NI05.52	II	10	14	10YR 5/1	Sand	None
NI05.52	III	14	63	10YR 5/6	Sand	None
NI05.53	I	0	17	10YR 4/2	Sandy Loam	None
NI05.53	II	17	70	10YR 6/3	Sandy Loam	None
NI05.53	III	70	100	10YR 6/3	Sandy Loam	B/C transition layer with dense cobbles
NI05.54	I	0	6	10YR 2/2	Sandy Loam	None
NI05.54	II	6	14	10YR 5/1	Sandy Loam	E horizon
NI05.54	III	14	69	10YR 5/6	Sandy Loam	None
NI05.55	I	0	21	10YR 4/2	Loamy Sand	A/AE, I Ed with 10YR 7/2
NI05.55	II	21	63	10YR 5/6	Sand	Bw1
NI05.55	III	63	85	10YR 5/8	Sand	Bw2
NI05.55	IV	85	95	10YR 6/6	Sand	None
NI05.55	V	95	112	10YR 6/2	Sand	C
NI05.56	I	0	14	10YR 7/2	Sand	E
NI05.56	II	14	51	10YR 4/6	Sand	Bw1
NI05.56	III	51	76	10YR 5/6	Sand	Bw2
NI05.56	IV	76	100	10YR 6/2	Sand	Subsoil
NI05.57	I	0	12	10YR 2/2	Sandy Loam	None
NI05.57	II	12	25	10YR 5/1	Sand	None
NI05.57	III	25	65	10YR 5/6	Sand	None
NI05.57	IV	65	97	10YR 6/6	Sand	None
NI05.57	V	97	100	10YR 6/3	Sand	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI05.58	I	0	10	10YR 4/2	Loamy Sand	A/AE
NI05.58	II	10	47	10YR 5/6	Sand	Bw1
NI05.58	III	47	78	10YR 5/8	Sand	Bw2
NI05.58	IV	78	92	10YR 6/6	Sand	BC
NI05.58	V	92	104	10YR 6/2	Sand	C
NI05.59	I	0	9	10YR 4/2	Sandy Loam	Dev A
NI05.59	II	9	20	10YR 7/2	Sandy Loam	E soil
NI05.59	III	20	55	10YR 6/3	Sandy Loam	None
NI05.59	IV	55	100	10YR 6/3	Sandy Loam	None
NI05.60	I	0	11	10YR 2/2	Sandy Loam	A
NI05.60	II	11	16	10YR 7/1	Sand	E
NI05.60	III	16	61	10YR 4/6	Sand	BW 1
NI05.60	IV	61	89	10YR 5/6	Sand	BW 2
NI05.60	V	89	100	10YR 6/3	Sand	BC with some C at very bottom. Stop for 1 m depth
NI05.61	I	0	14	10YR 2/2	Sandy Loam	None
NI05.61	II	14	100	10YR 5/6	Sandy Loam	None
NI05.62	I	0	20	10YR 2/2	Sand	None
NI05.62	II	20	62	10YR 5/6	Sand	None
NI05.62	III	62	89	10YR 6/6	Sand	None
NI05.62	IV	89	100	2.5Y 6/3	Sand	None
NI05.63	I	0	16	10YR 4/2	Sandy Loam	None
NI05.63	II	16	56	10YR 6/3	Sandy Loam	None
NI05.63	III	56	100	10YR 6/4	Sandy Loam	None
NI05.64	I	0	13	10YR 4/2	Loamy Sand	A/Ae, with 10YR 7/2 sand
NI05.64	II	13	44	10YR 5/6	Sand	Bw1
NI05.64	III	44	100	10YR 5/8	Sand	Bw2
NI05.65	I	0	10	10YR 2/2	Sandy Loam	Disturbed redeposited A. Compact

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI05.65	II	10	60	10YR 4/6	Sand	Compact, disturbed BW 1. Pockets of 10YR 2/2 redeposited A mixed throughout
NI05.65	III	60	108	10YR 4/6	Sand	Disturbed BW. Compact. No mixed A. Stop for depth
NI05.66	I	0	14	10YR 2/2	Sandy Loam	None
NI05.66	II	14	76	10YR 5/6	Sandy Loam	None
NI05.66	III	76	85	10YR 6/6	Sandy Loam	None
NI05.66	IV	85	95	10YR 6/3	Sand	None
NI05.67	I	0	20	10YR 4/2	Loamy Sand	A/E/Bw mix, with 10YR 7/2 and 10YR 5/6 sand
NI05.67	II	20	38	10YR 5/6	Sand	Bw1, compacted
NI05.67	III	38	68	10YR 5/8	Sand	Bw2, compacted
NI05.67	IV	68	88	10YR 6/6	Sand	BC
NI05.67	V	88	100	10YR 6/2	Sand	C
NI05.68	I	0	8	10YR 4/2	Sandy Loam	None
NI05.68	II	8	17	10YR 7/2	Sandy Loam	E soil horizon
NI05.68	III	17	80	10YR 6/3	Sandy Loam	None
NI05.68	IV	80	100	10YR 6/2	Sandy Loam	None
NI05.69	I	0	12	10YR 2/2	Sand	None
NI05.69	II	12	15	10YR 5/1	Sand	None
NI05.69	III	15	58	10YR 5/6	Sand	None
NI05.69	IV	58	74	10YR 6/6	Sand	None
NI05.70	I	0	20	10YR 2/2	Sandy Loam	A with slight E
NI05.70	II	20	61	10YR 4/6	Sand	BW 1
NI05.70	III	61	92	10YR 5/6	Sand	BW 2
NI05.70	IV	92	104	10YR 6/3	Sand	BC. Stop for depth
NI05.70	V	104		NONE/NONE		None
NI05.71	I	0	27	10YR 2/2	Sandy Loam	Disturbed push pile with modern garbage
NI05.71	II	27	70	10YR 5/6	Sandy Loam	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI05.71	III	70	82	10YR 6/6	Sandy Loam	None
NI05.72	I	0	14	10YR 4/2	Loamy Sand	O/A/E
NI05.72	II	14	36	10YR 5/6	Sand	Bw1, compacted
NI05.72	III	36	66	10YR 5/8	Sand	Bw2
NI05.72	IV	66	91	10YR 6/6	Sand	BC
NI05.72	V	91	100	10YR 6/2	Sand	C
NI05.73	I	0	8	10YR 4/2	Sandy Loam	None
NI05.73	II	8	18	10YR 7/2	Sandy Loam	E soil horizon
NI05.73	III	18	71	10YR 6/4	Sandy Loam	None
NI05.73	IV	71	100	10YR 6/3	Sandy Loam	None
NI05.74	I	0	15	10YR 2/2	Sand	Modern trash not collected. Plastic and colorless glass
NI05.74	II	15	18	10YR 5/1	Sand	None
NI05.74	III	18	64	10YR 5/6	Sand	None
NI05.75	I	0	21	10YR 4/2	Loamy Sand	A/E/Bw mix, with 10YR 7/2 and 10YR 5/6 sand
NI05.75	II	21	50	10YR 5/6	Sand	Bw1
NI05.75	III	50	86	10YR 5/8	Sand	Bw2
NI05.75	IV	86	100	10YR 6/6	Sand	BC
NI05.76	I	0	12	10YR 2/2	Sandy Loam	Redeposited A with slight E
NI05.76	II	12	27	10YR 4/6	Sand	Redeposited BW 1
NI05.76	III	27	35	10YR 2/2	Sandy Loam	Buried A/E beneath push and disturbance
NI05.76	IV	35	84	10YR 4/6	Sand	BW 1
NI05.76	V	84	110	10YR 5/6	Sand	BW 2. Stop for depth
NI05.77	I	0	19	10YR 2/2	Sandy Loam	None
NI05.77	II	19	73	10YR 5/6	Sandy Loam	None
NI05.77	III	73	100	10YR 6/6	Sandy Loam	None
NI05.78	I	0	8	10YR 4/2	Sandy Loam	None
NI05.78	II	8	56	10YR 6/4	Sandy Loam	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI05.78	III	56	91	10YR 6/3	Sandy Loam	None
NI05.78	IV	91	100	10YR 6/2	Sandy Loam	None
NI05.79	I	0	20	10YR 2/2	Sand	None
NI05.79	II	20	54	10YR 5/6	Sand	None
NI05.80	I	0	12	10YR 2/2	Sandy Loam	A horizon, disturbed redeposited.
NI05.80	II	12	27	10YR 7/2	Sand	E
NI05.80	III	27	71	10YR 4/6	Sand	BW 1
NI05.80	IV	71	104	10YR 5/6	Sand	BW 2. Stop for depth
NI05.81	I	0	36	10YR 4/2	Sandy Loam	A/Ao, lots of modern plastic debris
NI05.81	II	36	62	10YR 5/6	Loamy Sand	Bw1
NI05.81	III	62	100	10YR 5/8	Sand	Bw2
NI05.82	I	0	26	10YR 2/2	Sandy Loam	None
NI05.83	I	0	25	10YR 2/2	Sand	Modern trash and leaf debris. Not collected
NI05.83	II	25	55	10YR 5/6	Sand	None
NI05.83	III	55	80	10YR 6/6	Sand	None
NI05.84	I	0	21	10YR 4/2	Sandy Loam	None
NI05.84	II	21	58	10YR 6/3	Sandy Loam	One piece of glass discarded. Area is clearly disturbed from push piles.
NI05.84	III	58	100	10YR 6/4	Sandy Loam	None
NI05.85	I	0	21	10YR 2/1	Sandy Loam	Redeposited A. Battery and shingle not collected
NI05.85	II	21	98	10YR 4/6	Sand	BW 1. Disturbed. Shingle fragments, plastic, glass not collected
NI05.85	III	98	108	10YR 5/6	Sand	BW 2. Stop for depth
NI05.86	I	0	22	10YR 2/2	Sandy Loam	Very disturbed. Modern trash
NI05.86	II	22	79	10YR 5/6	Sandy Loam	None
NI05.86	III	79	100	10YR 6/6	Sandy Loam	None
NI05.87	I	0	17	10YR 4/2	Sandy Loam	Glass and plastic found in level discarded

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI05.87	II	17	63	10YR 6/3	Sandy Loam	Glass and plastic found in level discarded
NI05.87	III	63	100	10YR 6/3	Sandy Loam	None
NI05.88	I	0	25	10YR 2/2	Sand	Modern trash. Not collected.
NI05.88	II	25	68	10YR 5/6	Sand	Modern trash. Not collected.
NI05.88	III	68	100	10YR 6/6	Sand	None
NI05.89	I	0	15	10YR 2/2	Sandy Loam	Modern trash - plastics. Not collected
NI05.89	II	15	60	10YR 5/6	Sand	None
NI05.89	III	60	100	10YR 6/6	Sand	None
NI05.90	I	0	21	10YR 2/2	Sandy Loam	Redeposited A, traces of E. Lots of garbage (poolmotor, fluorescent light tubes, tires), nearby
NI05.90	II	21	62	10YR 4/6	Sand	BW 1
NI05.90	III	62	99	10YR 5/6	Sand	Cobbly BW 2
NI05.90	IV	99	110	10YR 6/2	Sand	BC. Stop for depth
NI05.91	I	0	17	10YR 4/2	Sandy Loam	A/E mottled together E 10YR 7/2 SALO
NI05.91	II	17	78	10YR 6/4	Sandy Loam	None
NI05.91	III	78	100	10YR 6/3	Sandy Loam	Cobbles and gravel present
NI05.92	I	0	19	10YR 2/2	Sandy Loam	None
NI05.92	II	19	88	10YR 5/6	Sandy Loam	None
NI05.93	I	0	17	10YR 4/2	Loamy Sand	A/Ao
NI05.93	II	17	53	10YR 5/6	Sand	Bw1
NI05.93	III	53	86	10YR 5/8	Sand	Bw2
NI05.93	IV	86	103	10YR 6/6	Sand	BC
NI05.94	I	0	18	10YR 2/2	Sandy Loam	Modern trash not collected. Metal,
NI05.94	II	18	22	10YR 5/1	Sand	None
NI05.94	III	22	72	10YR 5/6	Sand	None
NI05.94	IV	72	100	10YR 6/6	Sand	None
NI05.95	I	0	21	10YR 2/2	Sandy Loam	Redeposited A

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NI05.95	II	21	103	10YR 4/6	Sand	BW. Compact near top. Glass near top not collected
NI05.95	III	103	110	10YR 6/3	Sand	Gravelly BC, hint of C near bottom. Stop for depth
NI05.96	I	0	7	10YR 4/2	Sandy Loam	None
NI05.96	II	7	17	10YR 7/2	Sandy Loam	E soil horizon
NI05.96	III	17	100	10YR 6/3	Sandy Loam	None
NI05.97	I	0	16	10YR 2/2	Sandy Loam	None
NI05.97	II	16	86	10YR 5/6	Sandy Loam	None
NI05.97	III	86	100	10YR 6/6	Sandy Loam	None
NI05.98	I	0	13	10YR 4/2	Loamy Sand	A/Ao
NI05.98	II	13	42	10YR 5/6	Sand	B1
NI05.98	III	42	95	10YR 5/8	Sand	Bw2
NI05.98	IV	95	111	10YR 6/6	Sand	BC
NYPA.01	I	0	20	10YR 2/1	Sand	None
NYPA.01	II	20	90	10YR 4/6	Sand	None
NYPA.01	III	90	100	10YR 6/6	Sand	None
NYPA.02	I	0	18	10YR 3/2	Sandy Loam	Ob
NYPA.02	II	18	31	10YR 2/2	Loamy Sand	Disturbed A
NYPA.02	III	31	62	10YR 4/6	Loamy Sand	Bw1
NYPA.02	IV	62	89	10YR 5/4	Sand	Bw2
NYPA.02	V	89	100	10YR 6/2	Sand	Very coarse sandy subsoil
NYPA.03	I	0	32	10YR 3/2	Sandy Loam	Churned up topsoil mixed with 10YR4/6
NYPA.03	II	32	58	10YR 4/6	Loamy Sand	Bw1
NYPA.03	III	58	84	10YR 5/6	Sand	Bw2
NYPA.03	IV	84	100	10YR 6/2	Sand	Coarse sand subsoil
NYPA.04	I	0	24	10YR 2/1	Sand	None
NYPA.04	II	24	70	10YR 5/6	Sand	One whiteware not collected
NYPA.04	III	70	100	10YR 6/6	Sand	Stop for 1 m depth

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NYPA.05	I	0	32	10YR 4/2	Sandy Loam	Disturbed/fill
NYPA.05	II	32	67	10YR 4/6	Loamy Sand	Disturbed Bw1 with 10YR 4/3 mixed
NYPA.05	III	67	92	10YR 6/3	Sand	Coarse sand with cobbles Bw2
NYPA.05	IV	92	100	10YR 6/2	Sand	Coarse sand subsoil
NYPA.06	I	0	57	10YR 4/2	Sandy Loam	Fill mixed with 10YR 4/6 and 10YR 6/2, wire impasse at 57cmbs
NYPA.07	I	0	20	10YR 2/2	Sand	Modern plastic, styrophome, flat glass and mirror
NYPA.07	II	20	55	10YR 4/6	Sand	None
NYPA.07	III	55	79	10YR 5/6	Sand	None
NYPA.08	I	0	23	10YR 4/1	Loamy Sand	Disturbed topsoil over asphalt with asphalt impasse
NYPA.09	I	0	38	10YR 4/2	Sandy Loam	Mixed with 10YR 3/6
NYPA.09	II	38	61	10YR 4/6	Loamy Sand	Disturbed Bw1
NYPA.09	III	61	82	10YR 5/6	Sand	Bw2
NYPA.09	IV	82	100	10YR 6/2	Sand	Coarse sand with cobbles
NYPA.10	I	0	23	10YR 2/1	Sand	None
NYPA.10	II	23	64	10YR 5/6	Sand	None
NYPA.10	III	64	100	10YR 6/6	Sand	Stop for 1 m depth
NYPA.100	I	0	10	10YR 4/2	Sandy Loam	A
NYPA.100	II	10	42	7.5YR 5/6	Loamy Sand	Bw1
NYPA.100	III	42	78	10YR 5/8	Loamy Sand	Bw2
NYPA.100	IV	78	100	10YR 6/6	Sand	BC
NYPA.101	I	0	23	10YR 2/2	Sand	Disturbed A
NYPA.101	II	23	74	10YR 4/6	Sand	BW 1
NYPA.101	III	74	101	10YR 5/6	Sand	Slightly gravelly BW 2
NYPA.102	I	0	11	10YR 4/2	Sandy Loam	A
NYPA.102	II	11	70	7.5YR 5/6	Loamy Sand	Bw1
NYPA.102	III	70	102	10YR 5/8	Loamy Sand	Bw2

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NYPA.103	I	0	14	10YR 4/2	Sandy Loam	Disturbed A
NYPA.103	II	14	56	10YR 4/6	Sand	Bw1
NYPA.103	III	56	67	10YR 5/6	Sand	Bw2 with root impasse
NYPA.103	IV	67		NONE/NONE		None
NYPA.104	I	0	10	10YR 4/2	Sandy Loam	A
NYPA.104	II	10	30	7.5YR 5/6	Loamy Sand	Bw1
NYPA.104	III	30	87	10YR 5/8	Loamy Sand	Bw2
NYPA.104	IV	87	101	10YR 6/6	Sand	BC
NYPA.105	I	0	26	10YR 2/2	Sand	A horizon
NYPA.105	II	26	94	10YR 4/6	Sand	BW horizon. Very few rocks
NYPA.105	III	94	100	10YR 6/2	Sand	Stop for 1 m depth and subsoil
NYPA.106	I	0	39	10YR 5/6	Sandy Loam	None
NYPA.106	II	39	96	10YR 6/6	Sandy Loam	None
NYPA.106	III	96	106	10YR 6/4	Sand	None
NYPA.107	I	0	20	10YR 2/2	Sand	None
NYPA.107	II	20	55	10YR 5/6	Sand	None
NYPA.107	III	55	100	10YR 6/6	Sand	None
NYPA.108	I	0	34	10YR 2/2	Sandy Loam	A horizon
NYPA.108	II	34	90	10YR 4/6	Sand	Very few rocks. BW horizon
NYPA.108	III	90	100	10YR 6/3	Sand	None
NYPA.109	I	0	17	10YR 4/2	Loamy Sand	A
NYPA.109	II	17	54	10YR 4/6	Sand	Bw1
NYPA.109	III	54	78	10YR 5/6	Sand	Bw2
NYPA.109	IV	78	108	10YR 6/3	Sand	BC
NYPA.11	I	0	24	10YR 4/2	Sandy Loam	Disturbed a
NYPA.11	II	24	52	10YR 4/6	Loamy Sand	Bw1
NYPA.11	III	52	82	10YR 5/6	Sand	Coarse sand Bw2
NYPA.11	IV	82	100	10YR 6/3	Sand	Coarse sand subsoil
NYPA.110	I	0	11	10YR 2/2	Sandy Loam	Organic topsoil

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NYPA.110	II	11	65	10YR 5/6	Sandy Loam	None
NYPA.110	III	65	91	10YR 6/8	Sandy Loam	None
NYPA.110	IV	91	101	10YR 6/3	Sand	None
NYPA.111	I	0	20	10YR 3/2	Sand	None
NYPA.111	II	20	55	10YR 5/6	Sand	None
NYPA.111	III	55	100	10YR 6/6	Sand	None
NYPA.112	I	0	12	10YR 4/2	Sandy Loam	A
NYPA.112	II	12	33	7.5YR 5/6	Loamy Sand	Bw1
NYPA.112	III	33	85	10YR 5/8	Loamy Sand	Bw2
NYPA.112	IV	85	100	10YR 6/6	Sand	BC
NYPA.113	I	0	21	10YR 4/3	Loamy Sand	A
NYPA.113	II	21	53	10YR 4/6	Sand	Bw1
NYPA.113	III	53	81	10YR 5/6	Sand	Bw2
NYPA.113	IV	81	93	10YR 6/3	Sand	BC with cobbles
NYPA.113	V	93	100	10YR 6/2	Sand	Coarse sand subsoil
NYPA.114	I	0	25	10YR 2/2	Sandy Loam	A horizon
NYPA.114	II	25	98	10YR 4/6	Sand	BW. Many roots. Very few rocks. Stop for root impasse and 1 m depth
NYPA.115	I	0	11	10YR 4/2	Sandy Loam	A
NYPA.115	II	11	30	7.5YR 5/6	Loamy Sand	Bw1
NYPA.115	III	30	75	10YR 5/8	Loamy Sand	Bw2
NYPA.115	IV	75	100	10YR 6/6	Sand	BC
NYPA.116	I	0	12	10YR 2/2	Sandy Loam	Organic topsoil
NYPA.116	II	12	80	10YR 5/6	Sandy Loam	None
NYPA.116	III	80	100	10YR 6/4	Sandy Loam	None
NYPA.117	I	0	25	10YR 2/2	Sand	None
NYPA.117	II	25	65	10YR 5/6	Sand	None
NYPA.117	III	65	100	10YR 6/6	Sand	None
NYPA.118	I	0	21	10YR 2/2	Sandy Loam	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NYPA.118	II	21	62	10YR 4/6	Sand	Not very rocky BW 1
NYPA.118	III	62	95	10YR 5/6	Sand	None
NYPA.118	IV	95	104	10YR 6/3	Sand	Stop for subsoil and 1 m depth
NYPA.119	I	0	14	10YR 2/2	Sandy Loam	None
NYPA.119	II	14	74	10YR 5/6	Sandy Loam	None
NYPA.119	III	74	104	10YR 6/6	Sandy Loam	None
NYPA.119	IV	104	116	10YR 6/3	Sand	None
NYPA.12	I	0	35	10YR 4/2	Sandy Loam	Disturbed A
NYPA.12	II	35	67	10YR 4/6	Loamy Sand	Bw1
NYPA.12	III	67	89	10YR 5/6	Sand	Bw2
NYPA.12	IV	89	100	10YR 6/2	Sand	Coarse sand subsoil
NYPA.120	I	0	28	10YR 2.5/2	Sand	Very very rooty
NYPA.120	II	28	65	10YR 5/6	Sand	None
NYPA.120	III	65	100	10YR 6/6	Sand	None
NYPA.121	I	0	13	10YR 4/2	Sandy Loam	A
NYPA.121	II	13	28	7.5YR 5/6	Loamy Sand	Bw1
NYPA.121	III	28	76	10YR 5/8	Loamy Sand	Bw2
NYPA.121	IV	76	100	10YR 6/6	Sand	BC
NYPA.122	I	0	15	10YR 4/2	Sand	A
NYPA.122	II	15	48	10YR 4/6	Sand	Bw1
NYPA.122	III	48	68	10YR 5/6	Sand	Bw2
NYPA.122	IV	68	89	10YR 6/3	Sand	BC
NYPA.122	V	89	102	10YR 6/2	Sand	Coarse sand subsoil
NYPA.123	I	0	14	10YR 4/2	Sandy Loam	A
NYPA.123	II	14	43	7.5YR 5/6	Loamy Sand	Bw1
NYPA.123	III	43	71	10YR 5/8	Loamy Sand	Bw2
NYPA.123	IV	71	100	10YR 6/6	Sand	BC
NYPA.124	I	0	10	10YR 4/4	Sandy Loam	A
NYPA.124	II	10	37	7.5YR 5/6	Loamy Sand	Bw1

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NYPA.124	III	37	73	10YR 5/8	Loamy Sand	Bw2
NYPA.124	IV	73	100	10YR 6/6	Sand	BC
NYPA.125	I	0	13	10YR 2/2	Sandy Loam	None
NYPA.125	II	13	38	10YR 5/6	Sandy Loam	None
NYPA.125	III	38	74	10YR 5/4	Sandy Loam	None
NYPA.125	IV	74	97	10YR 6/6	Sandy Loam	None
NYPA.125	V	97	107	10YR 6/3	Sand	None
NYPA.126	I	0	20	10YR 2/2	Sand	None
NYPA.126	II	20	72	10YR 5/6	Sand	None
NYPA.126	III	72	100	10YR 6/6	Sand	None
NYPA.127	I	0	15	10YR 2/2	Sandy Loam	A
NYPA.127	II	15	90	10YR 4/6	Sand	BW
NYPA.127	III	90	100	10YR 5/6	Sand	BC horizon, coarse sand. Stop for 1 m depth
NYPA.128	I	0	13	10YR 4/2	Sand	A
NYPA.128	II	13	47	10YR 4/6	Sand	Bw1
NYPA.128	III	47	76	10YR 5/6	Sand	Bw2
NYPA.128	IV	76	91	10YR 6/3	Sand	BC
NYPA.128	V	91	100	10YR 6/2	Sand	Coarse sand subsoil
NYPA.129	I	0	16	10YR 2/2	Sandy Loam	None
NYPA.129	II	16	72	10YR 5/6	Sandy Loam	None
NYPA.129	III	72	105	10YR 6/6	Sandy Loam	None
NYPA.129	IV	105	115	10YR 6/3	Sand	None
NYPA.13	I	0	25	10YR 2/2	Sand	Modern refuse not collected - plastics
NYPA.13	II	25	51	10YR 5/6	Sand	Plastic - not collected
NYPA.13	III	51	55	10YR 6/6	Sand	Hit large root
NYPA.130	I	0	20	10YR 2/2	Sand	None
NYPA.130	II	20	100	10YR 5/6	Sand	Trash bag in wall at approx 90cm
NYPA.131	I	0	21	10YR 2/2	Sandy Loam	A

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NYPA.131	II	21	70	10YR 4/6	Sand	BW 1
NYPA.131	III	70	89	10YR 5/6	Sand	BW 2
NYPA.131	IV	89	100	10YR 6/3	Sand	Stop for 1 m depth and subsoil
NYPA.132	I	0	14	10YR 2/2	Sandy Loam	None
NYPA.132	II	14	67	10YR 5/6	Sandy Loam	None
NYPA.132	III	67	91	10YR 6/4	Sandy Loam	None
NYPA.132	IV	91	101	10YR 6/3	Sand	None
NYPA.133	I	0	27	10YR 2/2	Sandy Loam	A
NYPA.133	II	27	62	10YR 4/6	Sand	BW 1
NYPA.133	III	62	81	10YR 5/6	Sand	BW 2
NYPA.133	IV	81	95	10YR 6/3	Sand	None
NYPA.134	I	0	14	10YR 4/2	Sand	A
NYPA.134	II	14	48	10YR 4/6	Sand	Bw1
NYPA.134	III	48	65	10YR 5/6	Sand	Bw2 with root impasse at 65cmbs
NYPA.135	I	0	9	10YR 4/2	Sandy Loam	A
NYPA.135	II	9	43	7.5YR 5/6	Loamy Sand	Bw1
NYPA.135	III	43	84	10YR 5/8	Loamy Sand	Bw2
NYPA.135	IV	84	100	10YR 6/6	Sand	BC
NYPA.136	I	0	10	10YR 4/2	Sandy Loam	A
NYPA.136	II	10	29	7.5YR 5/6	Loamy Sand	Bw1
NYPA.136	III	29	65	10YR 5/8	Loamy Sand	Bw2
NYPA.136	IV	65	100	10YR 6/6	Sand	BC
NYPA.137	I	0	9	10YR 4/2	Sandy Loam	A
NYPA.137	II	9	27	7.5YR 5/6	Loamy Sand	Bw1
NYPA.137	III	27	84	10YR 5/8	Loamy Sand	Bw2
NYPA.137	IV	84	100	10YR 6/6	Sand	BC
NYPA.138	I	0	12	10YR 4/2	Sandy Loam	A
NYPA.138	II	12	38	7.5YR 5/6	Loamy Sand	Bw1
NYPA.138	III	38	93	10YR 5/8	Loamy Sand	Bw2

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NYPA.138	IV	93	102	10YR 6/6	Sand	BC
NYPA.1391	I	0	13	10YR 4/2	Sandy Loam	A
NYPA.1391	II	13	28	7.5YR 5/6	Loamy Sand	Bw1
NYPA.1391	III	28	78	10YR 5/8	Loamy Sand	Bw2
NYPA.1391	IV	78	100	10YR 6/6	Sand	BC
NYPA.14	I	0	24	10YR 4/2	Sandy Loam	Disturbed A
NYPA.14	II	24	45	10YR 4/6	Loamy Sand	Bw1
NYPA.14	III	45	73	10YR 5/6	Sand	Bw2
NYPA.14	IV	73	93	10YR 6/4	Sand	BC
NYPA.14	V	93	100	10YR 6/2	Sand	Coarse sand subsoil
NYPA.140	I	0	13	10YR 4/2	Sandy Loam	A
NYPA.140	II	13	34	7.5YR 5/6	Loamy Sand	Bw1
NYPA.140	III	34	84	10YR 5/8	Loamy Sand	Bw2
NYPA.140	IV	84	100	10YR 6/6	Sand	BC
NYPA.141	I	0	27	10YR 2/2	Sandy Loam	None
NYPA.141	II	27	94	10YR 4/6	Sand	BW 1
NYPA.141	III	94	101	10YR 5/6	Sand	Stop for 1 m depth
NYPA.142	I	0	10	10YR 2/2	Sandy Loam	None
NYPA.142	II	10	86	10YR 5/6	Sandy Loam	None
NYPA.142	III	86	97	10YR 6/6	Sandy Loam	None
NYPA.143	I	0	19	10YR 4/2	Sandy Loam	A/Ao
NYPA.143	II	19	36	7.5YR 5/6	Loamy Sand	Bw1
NYPA.143	III	36	76	10YR 5/8	Loamy Sand	Bw2
NYPA.143	IV	76	100	10YR 6/6	Sand	BC
NYPA.144	I	0	20	10YR 2/2	Sand	Modern plastic trash - not collected
NYPA.144	II	20	51	10YR 5/6	Sand	None
NYPA.145	I	0	10	10YR 2/2	Sandy Loam	None
NYPA.145	II	10	71	10YR 5/6	Sandy Loam	None
NYPA.145	III	71	100	10YR 6/6	Sandy Loam	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NYPA.145	IV	100	110	10YR 6/3	Sand	None
NYPA.146	I	0	23	10YR 4/2	Sand	Disturbed A
NYPA.146	II	23	49	10YR 4/6	Sand	Bw1
NYPA.146	III	49	75	10YR 5/6	Sand	Bw2
NYPA.146	IV	75	83	10YR 6/3	Sand	BC
NYPA.146	V	83	100	10YR 6/2	Sand	Subsoil
NYPA.147	I	0	20	10YR 2/2	Sand	None
NYPA.147	II	20	68	10YR 5/6	Sand	None
NYPA.147	III	68	100	10YR 6/6	Sand	None
NYPA.148	I	0	18	10YR 2/2	Sandy Loam	A
NYPA.148	II	18	69	10YR 4/6	Sand	BW 1
NYPA.148	III	69	91	10YR 5/6	Sand	BW 2
NYPA.148	IV	91	104	10YR 6/3	Sand	Coarse sand subsoil. 7.5 YR 4/6 in one wall, Oxidation? Stop for subsoil and 1 m depth
NYPA.149	I	0	21	10YR 4/2	Sandy Loam	A
NYPA.149	II	21	36	7.5YR 5/6	Loamy Sand	Bw1
NYPA.149	III	36	81	10YR 6/6	Loamy Sand	Bw2
NYPA.149	IV	81	100	10YR 6/6	Sand	BC
NYPA.15	I	0	30	10YR 2/1	Sand	Plastic not collected
NYPA.15	II	30	65	10YR 5/6	Sand	None
NYPA.15	III	65	87	10YR 6/6	Sand	None
NYPA.15	IV	87	100	10YR 6/4	Sand	Stop for 1 m depth
NYPA.16	I	0	34	10YR 4/2	Sandy Loam	Disturbed A
NYPA.16	II	34	56	10YR 4/6	Sandy Loam	Bw1
NYPA.16	III	56	75	10YR 5/6	Loamy Sand	Bw2
NYPA.16	IV	75	91	10YR 6/4	Sand	Bc
NYPA.16	V	91	100	10YR 6/2	Sand	Coarse sand subsoil
NYPA.17	I	0	15	10YR 2/2	Sand	Modern glass frag - not collected
NYPA.17	II	15	20	10YR 6/4	Sand	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NYPA.17	III	20	65	10YR 5/6	Sand	None
NYPA.17	IV	65	100	10YR 6/6	Sand	Meter deep stp
NYPA.18	I	0	28	10YR 4/2	Loamy Sand	Disturbed A with asphalt chunks and asphalt impasse
NYPA.19	I	0	21	10YR 4/2	Sandy Loam	A
NYPA.19	II	21	45	10YR 4/4	Sandy Loam	Bw1
NYPA.19	III	45	64	10YR 5/6	Sand	Bw2
NYPA.19	IV	64	78	10YR 6/4	Sand	BC
NYPA.19	V	78	100	10YR 6/2	Sand	Coarse sand subsoil with degrading rock
NYPA.20	I	0	16	10YR 2/1	Sand	None
NYPA.20	II	16	64	10YR 5/6	Sand	None
NYPA.20	III	64	100	10YR 6/6	Sand	Stop for 1 m depth
NYPA.21	I	0	27	10YR 4/2	Sandy Loam	A
NYPA.21	II	27	53	10YR 4/6	Loamy Sand	Bw1
NYPA.21	III	53	74	10YR 5/6	Sand	Bw2
NYPA.21	IV	74	90	10YR 6/4	Sand	BC
NYPA.21	V	90	100	10YR 6/2	Sand	Coarse sand subsoil
NYPA.22	I	0	14	10YR 4/2	Sandy Loam	A
NYPA.22	II	14	50	10YR 4/6	Loamy Sand	Bw1
NYPA.22	III	50	72	10YR 5/4	Sand	Bw2
NYPA.22	IV	72	91	10YR 6/4	Sand	BC
NYPA.22	V	91	100	10YR 6/2	Sand	Coarse sand subsoil
NYPA.23	I	0	26	10YR 2/2	Sand	None
NYPA.23	I	0	11	10YR 2/2	Sand	None
NYPA.23	II	26	60	10YR 5/6	Sand	None
NYPA.23	II	11	50	10YR 4/6	Sand	None
NYPA.23	III	60	75	10YR 6/6	Sand	None
NYPA.23	III	50	64	10YR 5/6	Sand	None
NYPA.23	IV	64	100	10YR 6/2	Sand	Stop for 1 m depth

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NYPA.24	I	0	24	10YR 4/2	Sandy Loam	A
NYPA.24	II	24	46	10YR 4/6	Loamy Sand	Bw1
NYPA.24	III	46	67	10YR 5/6	Sand	Bw2
NYPA.24	IV	67	88	10YR 6/4	Sand	BC
NYPA.24	V	88	100	10YR 6/2	Sand	Coarse sand subsoil
NYPA.25	I	0	25	10YR 2/1	Sand	None
NYPA.25	II	25	60	10YR 6/6	Sand	None
NYPA.25	III	60	83	10YR 6/6	Sand	None
NYPA.25	IV	83	100	10YR 5/4	Sand	Very gravelly. Stop for 1 m depth
NYPA.26	I	0	26	10YR 4/2	Sandy Loam	None
NYPA.26	II	26	52	10YR 4/6	Sandy Loam	Bw1- disturbed with glass present in strat
NYPA.26	III	52	68	10YR 5/6	Loamy Sand	Bw2
NYPA.26	IV	68	80	10YR 6/4	Sand	BC
NYPA.26	V	80	100	10YR 6/2	Sand	Coarse sand subsoil
NYPA.27	I	0	22	10YR 4/2	Sandy Loam	A
NYPA.27	II	22	48	10YR 4/6	Loamy Sand	Bw1
NYPA.27	III	48	68	10YR 5/6	Sand	Bw2
NYPA.27	IV	68	85	10YR 6/4	Sand	BC with interlocking rock and cobble impasse at 85cmbs
NYPA.28	I	0	20	10YR 2/2	Sand	Shells not collected. Not natural
NYPA.28	II	20	55	10YR 5/6	Sand	None
NYPA.28	III	55	78	10YR 6/6	Sand	None
NYPA.28	IV	78	100	10YR 5/3	Sand	Very gravelly
NYPA.29	I	0	16	10YR 4/2	Sandy Loam	A
NYPA.29	II	16	50	10YR 4/6	Loamy Sand	Bw1
NYPA.29	III	50	67	10YR 5/6	Sand	Bw2
NYPA.29	IV	67	90	10YR 6/4	Sand	BC
NYPA.29	V	90	100	10YR 6/2	Sand	Coarse sand subsoil
NYPA.30	I	0	23	10YR 2/2	Sand	Disturbed A horizon

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NYPA.30	II	23	59	10YR 4/6	Sand	Mixing with Strat 1 toward top
NYPA.30	III	59	77	10YR 5/6	Sand	None
NYPA.30	IV	77	100	10YR 6/4	Sand	BC horizon. Stop for 1 m depth
NYPA.31	I	0	29	10YR 4/2	Sandy Loam	Disturbed A
NYPA.31	II	29	58	10YR 4/6	Loamy Sand	Disturbed Bw1
NYPA.31	III	58	67	10YR 5/6	Sand	Bw2 with root impasse
NYPA.33	I	0	27	10YR 4/2	Sandy Loam	A
NYPA.33	II	27	56	10YR 4/6	Loamy Sand	Bw1
NYPA.33	III	56	69	10YR 5/6	Sand	Bw2
NYPA.33	IV	69	92	10YR 6/4	Sand	BC coarse sand with oxi
NYPA.33	V	92	100	10YR 6/2	Sand	Coarse sand subsoil
NYPA.34	I	0	10	10YR 4/2	Sandy Loam	A
NYPA.34	II	10	32	7.5YR 5/6	Loamy Sand	Bw1
NYPA.34	III	32	68	10YR 5/8	Sand	Bw2
NYPA.34	IV	68	87	10YR 6/6	Sand	BC
NYPA.34	V	87	100	10YR 6/2	Sand	C
NYPA.35	I	0	20	10YR 2/2	Sand	Disturbed redeposited A, mixing with top of B horizon
NYPA.35	II	20	57	10YR 4/6	Sand	B horizon, some mixing with strat 1 toward top
NYPA.35	III	57	100	10YR 5/6	Sand	Stop for 1 m depth
NYPA.36	I	0	28	10YR 4/2	Sandy Loam	A
NYPA.36	II	28	49	10YR 4/6	Loamy Sand	Bw1
NYPA.36	III	49	68	10YR 5/6	Sand	Bw2
NYPA.36	IV	68	87	10YR 6/4	Sand	BC
NYPA.36	V	87	100	10YR 6/2	Sand	Coarse sand subsoil
NYPA.37	I	0	20	10YR 4/2	Sandy Loam	A
NYPA.37	II	20	47	7.5YR 5/6	Loamy Sand	Bw1
NYPA.37	III	47	71	10YR 5/8	Loamy Sand	Bw2

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NYPA.37	IV	71	85	10YR 6/6	Sand	BV
NYPA.37	V	85	100	10YR 6/2	Sand	C
NYPA.38	I	0	21	10YR 2/2	Sand	Disturbed A
NYPA.38	II	21	40	10YR 4/6	Sand	BW 1
NYPA.38	III	40	64	10YR 5/6	Sand	BW 2
NYPA.38	IV	64	100	10YR 6/6	Sand	None
NYPA.39	I	0	17	10YR 4/2	Sandy Loam	A
NYPA.39	II	17	46	7.5YR 5/6	Loamy Sand	Bw1
NYPA.39	III	46	74	10YR 5/8	Loamy Sand	Bw2
NYPA.39	IV	74	94	10YR 6/6	Sand	BC
NYPA.39	V	94	100	10YR 6/2	Sand	C
NYPA.40	I	0	26	10YR 4/2	Sandy Loam	Redeposited A
NYPA.40	II	26	51	10YR 4/6	Loamy Sand	Bw1
NYPA.40	III	51	78	10YR 5/6	Sand	Bw2
NYPA.40	IV	78	100	10YR 6/4	Sand	BC coarse sand, gravel, and cobbles
NYPA.41	I	0	18	10YR 2/2	Sand	A horizon
NYPA.41	II	18	60	10YR 4/6	Sand	BW 1
NYPA.41	III	60	100	10YR 5/6	Sand	Gravelly BW 2
NYPA.42	I	0	17	10YR 4/2	Sandy Loam	A
NYPA.42	II	17	48	7.5YR 5/6	Loamy Sand	Bw1
NYPA.42	III	48	72	10YR 5/8	Loamy Sand	Bw2
NYPA.42	IV	72	93	10YR 6/6	Sand	BC
NYPA.42	V	93	100	10YR 6/2	Sand	C
NYPA.43	I	0	25	10YR 4/2	Sandy Loam	A
NYPA.43	II	25	43	10YR 4/6	Loamy Sand	Bw1
NYPA.43	III	43	67	10YR 5/6	Loamy Sand	Bw2
NYPA.43	IV	67	89	10YR 6/4	Sand	BC
NYPA.43	V	89	100	10YR 6/2	Sand	Coarse sand subsoil
NYPA.44	I	0	21	10YR 4/2	Sandy Loam	A

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NYPA.44	II	21	44	7.5YR 5/6	Loamy Sand	Bw1
NYPA.44	III	44	65	10YR 5/8	Loamy Sand	Bw2
NYPA.44	IV	65	86	10YR 6/6	Sand	BC
NYPA.44	V	86	100	10YR 6/2	Sand	C
NYPA.45	I	0	24	10YR 2/1	Sand	Disturbed redeposited A
NYPA.45	II	24	81	10YR 4/6	Sand	BW 1
NYPA.45	III	81	100	10YR 5/6	Sand	Gravelly BW 2
NYPA.46	I	0	17	10YR 4/2	Sandy Loam	A horizon, modern trash and asphalt
NYPA.47	I	0	13	10YR 4/1	Loamy Sand	Disturbed topsoil over concrete pad leading to impasse
NYPA.48	I	0	23	10YR 4/2	Loamy Sand	A
NYPA.48	II	23	48	10YR 4/6	Loamy Sand	Bw1
NYPA.48	III	48	64	10YR 5/6	Sand	Bw2 with large rock leading to impasse
NYPA.49	I	0	14	10YR 4/2	Sandy Loam	A
NYPA.49	II	14	37	7.5YR 5/6	Loamy Sand	Bw
NYPA.49	III	37	60	10YR 5/8	Loamy Sand	Bw2
NYPA.49	IV	60	82	10YR 6/6	Sand	BC
NYPA.49	V	82	100	10YR 6/2	Sand	C
NYPA.50	I	0	29	10YR 2/2	Sand	Disturbed A
NYPA.50	II	29	69	10YR 4/6	Sand	BW 1 Disturbed, styrofoam present
NYPA.50	III	69	90	10YR 5/6	Sand	Gravelly BW 2
NYPA.50	IV	90	100	10YR 6/4	Sand	BC horizon, cobbly
NYPA.51	I	0	23	10YR 4/2	Sandy Loam	A
NYPA.51	II	23	56	7.5YR 5/6	Loamy Sand	Bw1
NYPA.51	III	56	77	10YR 5/8	Loamy Sand	Bw2
NYPA.51	IV	77	100	10YR 6/6	Sand	BC
NYPA.52	I	0	23	10YR 4/2	Loamy Sand	Redeposited A
NYPA.52	II	23	49	10YR 4/6	Loamy Sand	Bw1
NYPA.52	III	49	68	10YR 5/6	Sand	Bw2

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NYPA.52	IV	68	10	10YR 6/3	Sand	Coarse sand BC with cobbles throughout
NYPA.53	I	0	20	10YR 2/2	Sand	Disturbed redeposited A
NYPA.53	II	20	40	10YR 4/6	Sand	BW 1
NYPA.53	III	40	90	10YR 5/6	Sand	BW 2
NYPA.53	IV	90	100	10YR 6/3	Sand	BC
NYPA.54	I	0	24	10YR 4/2	Sandy Loam	A
NYPA.54	II	24	40	10YR 4/2	Sandy Loam	A/Bw1 mix, disturbed. Mixed with 7.5YR 5/6.
NYPA.54	III	40	60	7.5YR 5/6	Loamy Sand	Bw1
NYPA.54	IV	60	101	10YR 5/8	Loamy Sand	Bw2
NYPA.55	I	0	24	10YR 4/2	Loamy Sand	A
NYPA.55	II	24	45	10YR 4/6	Sand	Bw1
NYPA.55	III	45	72	10YR 5/4	Sand	Bw2
NYPA.55	IV	72	87	10YR 6/3	Sand	BC with cobbles and gravel- root impasse
NYPA.56	I	0	25	10YR 2/2	Sand	A horizon
NYPA.56	II	25	54	10YR 4/6	Sand	BW 1
NYPA.56	III	54	85	10YR 5/6	Sand	Not very rocky BW 2
NYPA.56	IV	85	100	10YR 6/3	Sand	BC
NYPA.57	I	0	15	10YR 4/2	Sandy Loam	A
NYPA.57	II	15	38	10YR 4/6	Sand	Bw1
NYPA.57	III	38	80	10YR 5/6	Sand	Bw2
NYPA.57	IV	80	106	10YR 6/4	Sand	BC
NYPA.58	I	0	30	10YR 2/2	Sand	Disturbed redeposited A horizon
NYPA.58	II	30	60	10YR 4/6	Sand	BW 2
NYPA.58	III	60	90	10YR 5/6	Sand	Very cobbly BW 2
NYPA.58	IV	90	100	10YR 6/3	Sand	None
NYPA.59	I	0	24	10YR 4/2	Sandy Loam	A
NYPA.59	II	24	57	10YR 4/6	Loamy Sand	Bw1, disturbed
NYPA.59	III	57	81	10YR 5/6	Sand	Bw2

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NYPA.59	IV	81	100	10YR 6/3	Sand	Coarse sand with cobbles
NYPA.60	I	0	20	10YR 2/2	Sand	Disturbed redeposited A horizon, lots of modern garbage. Disturbed mounds nearby
NYPA.60	II	20	65	10YR 4/6	Sand	BW horizon, not very rocky and gravelly
NYPA.60	III	65	100	10YR 6/3	Sand	Coarse sand BC stop for 1 m depth
NYPA.61	I	0	25	10YR 4/2	Sandy Loam	Disturbed A with modern trash and construction debris
NYPA.61	II	25	54	10YR 4/6	Loamy Sand	Disturbed Bw1 with 10YR 4/3 and concrete slab fragments leading to impasse
NYPA.62	I	0	28	10YR 4/2	Loamy Sand	Disturbed A
NYPA.62	II	28	56	10YR 4/6	Sand	Disturbed Bw1 with asphalt roofing shingles. Concrete fragment impasse at 56cmbs
NYPA.63	I	0	14	10YR 4/2	Sandy Loam	A
NYPA.63	II	14	41	7.5YR 5/6	Loamy Sand	Bw1
NYPA.63	III	41	68	10YR 5/8	Loamy Sand	Bw2
NYPA.63	IV	68	100	10YR 6/6	Sand	BC
NYPA.64	I	0	30	10YR 2/2	Sand	A horizon, not much modern trash
NYPA.64	II	30	70	10YR 4/6	Sand	BW 1
NYPA.64	III	70	95	10YR 5/6	Sand	Gravelly BW 2
NYPA.64	IV	95	100	10YR 6/3	Sand	BC horizon. Stop for 1 m depth
NYPA.65	I	0	15	10YR 4/2	Sandy Loam	A
NYPA.65	II	15	47	7.5YR 5/6	Loamy Sand	Bw1
NYPA.65	III	47	73	10YR 5/8	Loamy Sand	Bw2
NYPA.65	IV	73	100	10YR 6/6	Sand	BC
NYPA.66	I	0	23	10YR 4/2	Loamy Sand	A
NYPA.66	II	23	46	10YR 4/6	Sand	Bw1
NYPA.66	III	46	75	10YR 5/6	Sand	Bw2

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NYPA.66	IV	75	93	10YR 6/3	Sand	BC very coarse with cobbles
NYPA.66	V	93	100	10YR 6/2	Sand	Coarse sand subsoil
NYPA.67	I	0	15	10YR 4/2	Sandy Loam	A
NYPA.67	II	15	52	7.5YR 5/6	Loamy Sand	Bw1
NYPA.67	III	52	84	10YR 5/8	Loamy Sand	Bw2
NYPA.67	IV	84	100	10YR 6/2	Sand	C
NYPA.68	I	0	17	10YR 2/2	Sand	Disturbed A mixing with B horizon
NYPA.68	II	17	39	10YR 4/6	Sand	BW 1
NYPA.68	III	39	85	10YR 5/6	Sand	Very cobbly BW 2
NYPA.68	IV	85	95	10YR 6/3	Sand	None
NYPA.69	I	0	13	10YR 4/2	Sandy Loam	A
NYPA.69	II	13	44	7.5YR 5/6	Loamy Sand	Bw1
NYPA.69	III	44	68	10YR 5/8	Loamy Sand	Bw2
NYPA.69	IV	68	100	10YR 6/6	Sand	BC
NYPA.70	I	0	25	10YR 4/2	Loamy Sand	Push disturbance layer
NYPA.70	II	25	72	10YR 4/6	Sand	Disturbed Bw Mixed with 10YR 4/3 and 10YR 6/4
NYPA.70	III	72	100	10YR 6/2	Sand	Coarse sand subsoil with gravel
NYPA.71	I	0	10	10YR 4/2	Sandy Loam	A
NYPA.71	II	10	27	7.5YR 5/6	Loamy Sand	Bw1
NYPA.71	III	27	50	10YR 5/8	Loamy Sand	Bw2
NYPA.71	IV	50	100	10YR 6/6	Sand	BC
NYPA.72	I	0	30	10YR 2/2	Sand	Disturbed A horizon
NYPA.72	II	30	50	10YR 4/6	Sand	BW 1
NYPA.72	III	50	85	10YR 5/6	Sand	Gravelly BW 2
NYPA.72	IV	85	100	10YR 6/3	Sand	None
NYPA.74	I	0	24	10YR 4/2	Loamy Sand	Disturbed A
NYPA.74	II	24	46	10YR 4/6	Sand	Bw1
NYPA.74	III	46	78	10YR 5/6	Sand	Bw2

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NYPA.74	IV	78	96	10YR 6/4	Sand	BC
NYPA.74	V	96	100	10YR 6/2	Sand	Coarse sand subsoil
NYPA.77	I	0	27	10YR 2/2	Sand	Disturbed A horizon
NYPA.77	II	27	60	10YR 4/6	Sand	BW 1
NYPA.77	III	60	85	10YR 5/6	Sand	Gravelly BW 2
NYPA.77	IV	85	100	10YR 6/4	Sand	None
NYPA.78	I	0	22	10YR 4/2	Sandy Loam	A
NYPA.78	II	22	43	7.5YR 5/6	Loamy Sand	Bw1
NYPA.78	III	43	76	10YR 5/8	Loamy Sand	Bw2
NYPA.78	IV	76	100	10YR 6/6	Sand	BC
NYPA.79	I	0	68	10YR 4/1	Sandy Loam	Fill mixed with 10YR 4/3 and 10YR 2/1- STP next to driveway
NYPA.79	II	68	100	10YR 4/6	Sand	Bw1
NYPA.80	I	0	14	10YR 4/2	Sandy Loam	A
NYPA.80	II	14	40	7.5YR 5/6	Loamy Sand	Bw1
NYPA.80	III	40	100	10YR 5/8	Loamy Sand	Bw2
NYPA.81	I	0	29	10YR 4/2	Sandy Loam	Disturbed A
NYPA.81	II	29	56	10YR 4/6	Sand	Bw1
NYPA.81	III	56	76	10YR 5/6	Sand	Bw2
NYPA.81	IV	76	95	10YR 6/2	Sand	Coarse sand subsoil
NYPA.82	I	0	14	10YR 4/2	Sandy Loam	A
NYPA.82	II	14	49	10YR 4/6	Loamy Sand	Bw1
NYPA.82	III	49	68	10YR 5/6	Sand	Bw2
NYPA.82	IV	68	87	10YR 6/3	Sand	BC coarse with cobbles
NYPA.82	V	87	103	10YR 6/2	Sand	Coarse sand subsoil
NYPA.83	I	0	18	10YR 4/2	Sandy Loam	A
NYPA.83	II	18	38	7.5YR 5/6	Loamy Sand	Bw1
NYPA.83	III	38	74	10YR 5/8	Loamy Sand	Bw2
NYPA.83	IV	74	105	10YR 6/6	Sand	BC

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NYPA.84	I	0	20	10YR 2/2	Sand	A horizon
NYPA.84	II	20	40	10YR 4/6	Sand	BW 1
NYPA.84	III	40	70	10YR 5/6	Sand	Very cobbly and gravelly BW 2
NYPA.84	IV	70	98	10YR 6/4	Sand	Very gravelly BC. Stop for 1 m depth
NYPA.85	I	0	15	10YR 4/2	Sandy Loam	A
NYPA.85	II	15	43	7.5YR 5/6	Loamy Sand	Bw1
NYPA.85	III	43	70	10YR 5/8	Loamy Sand	Bw2
NYPA.85	IV	70	100	10YR 6/6	Sand	BC
NYPA.86	I	0	23	10YR 4/2	Loamy Sand	Disturbed A
NYPA.86	II	23	57	10YR 4/6	Sand	Bw1
NYPA.86	III	57	69	10YR 5/6	Sand	Bw2
NYPA.86	IV	69	86	10YR 6/3	Sand	BC coarse sand with cobbles
NYPA.86	V	86	100	10YR 6/2	Sand	Coarse sand subsoil
NYPA.87	I	0	16	10YR 4/2	Sandy Loam	A
NYPA.87	II	16	44	7.5YR 5/6	Loamy Sand	Bw1
NYPA.87	III	44	64	10YR 5/8	Loamy Sand	Bw2
NYPA.87	IV	64	100	10YR 6/6	Sand	None
NYPA.88	I	0	20	10YR 2/2	Sand	Disturbed A
NYPA.88	II	20	55	10YR 4/6	Sand	Gravelly BW 1
NYPA.88	III	55	100	10YR 5/6	Sand	Very cobbly and gravelly BW 2. Stop for 1 m depth
NYPA.89	I	0	9	10YR 4/2	Sandy Loam	A
NYPA.89	II	9	33	7.5YR 5/6	Loamy Sand	Bw1
NYPA.89	III	33	66	10YR 5/8	Loamy Sand	Bw2
NYPA.89	IV	66	100	10YR 6/6	Sand	BC
NYPA.90	I	0	15	10YR 4/2	Sandy Loam	A
NYPA.90	II	15	36	7.5YR 5/6	Loamy Sand	Bw1
NYPA.90	III	36	76	10YR 5/8	Loamy Sand	Bw2
NYPA.90	IV	76	91	10YR 6/6	Sand	BC

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NYPA.90	V	91	105	10YR 6/2	Sand	C
NYPA.91	I	0	30	10YR 4/1	Sandy Loam	Disturbed A with push and modern trash
NYPA.91	II	30	58	10YR 4/4	Loamy Sand	Bw1
NYPA.91	III	58	78	10YR 4/6	Sand	Bw2
NYPA.91	IV	78	90	10YR 6/3	Sand	BC coarse sand with cobbles
NYPA.91	V	90	104	10YR 6/2	Sand	Coarse sand subsoil
NYPA.92	I	0	20	10YR 2/2	Sand	A horizon
NYPA.92	II	20	50	10YR 4/6	Sand	Gravelly BW horizon
NYPA.92	III	50	70	10YR 5/6	Sand	Very rocky gravelly BW 2
NYPA.92	IV	70	100	10YR 6/4	Sand	Gravelly BC horizon. Stop for 1 m depth
NYPA.93	I	0	24	10YR 4/2	Sandy Loam	Disturbed A
NYPA.93	II	24	47	10YR 4/6	Sand	Bw1
NYPA.93	III	47	63	10YR 5/6	Sand	Bw2
NYPA.93	IV	63	100	10YR 6/3	Sand	BC coarse sand dense with large cobbles and gravel
NYPA.94	I	0	13	10YR 4/2	Sandy Loam	A
NYPA.94	II	13	29	7.5YR 5/6	Loamy Sand	Bw1
NYPA.94	III	29	68	10YR 5/8	Loamy Sand	Bw2
NYPA.94	IV	68	100	10YR 6/6	Sand	BC
NYPA.95	I	0	25	10YR 2/2	Sandy Loam	Disturbed A horizon
NYPA.95	II	25	60	10YR 4/6	Sandy Loam	BW 1
NYPA.95	III	60	100	10YR 5/6	Sand	Very cobbly and gravelly BW. Stop for 1 m
NYPA.96	I	0	10	10YR 4/2	Sandy Loam	A
NYPA.96	II	10	35	7.5YR 5/6	Loamy Sand	Bw1
NYPA.96	III	35	62	10YR 5/8	Loamy Sand	Bw2
NYPA.96	IV	62	100	10YR 6/6	Sand	BC
NYPA.97	I	0	14	10YR 4/2	Loamy Sand	A
NYPA.97	II	14	46	10YR 4/6	Sand	Bw1
NYPA.97	III	46	68	10YR 5/6	Sand	Bw2

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
NYPA.97	IV	68	87	10YR 6/3	Sand	BC coarse sand with cobbles
NYPA.97	V	87	100	10YR 6/2	Sand	Coarse sand subsoil
NYPA.98	I	0	10	10YR 4/2	Sandy Loam	A
NYPA.98	II	10	57	7.5YR 5/6	Loamy Sand	Bw1
NYPA.98	III	57	100	10YR 6/6	Sand	BC
NYPA.99	I	0	19	7.5YR 4/2	Sandy Loam	Disturbed A with modern trash
NYPA.99	II	19	48	10YR 4/6	Loamy Sand	Bw1
NYPA.99	III	48	71	10YR 5/6	Sand	Bw2
NYPA.99	IV	71	88	10YR 6/3	Sand	BC coarse sand with cobbles
NYPA.99	V	88	100	10YR 6/2	Sand	Coarse sand subsoil
NYPA73	I	0	12	10YR 4/2	Sandy Loam	A
NYPA73	II	12	36	7.5YR 5/6	Loamy Sand	Bw1
NYPA73	III	36	65	10YR 5/8	Loamy Sand	Bw2
NYPA73	IV	65	100	10YR 6/6	Sand	BC
NYPA75	I	0	12	10YR 4/2	Sandy Loam	A
NYPA75	II	12	31	7.5YR 5/6	Loamy Sand	Bw1
NYPA75	III	31	65	10YR 5/8	Loamy Sand	Bw2
NYPA75	IV	65	91	10YR 6/6	Sand	BC
NYPA75	V	91	100	10YR 6/2	Sand	C
WF 08.07	I	0	67	10YR 4/2	Sandy Loam	Glass, plastic, amd styrofoam all discarded
WF 08.07	II	67	100	10YR 6/4	Sandy Loam	None
WF 09.03	I	0	33	10YR 4/1	Sandy Loam	Green and clear glass, plastic, glass seven up bottle all discarded
WF 09.03	II	33	100	10YR 4/6	Sandy Loam	Glass found at bottom of level at 100cmbs
WF 09.07	I	0	32	10YR 4/2	Sandy Loam	Asphalt discarded
WF 09.07	II	32	72	10YR 4/6	Sandy Loam	None
WF 09.07	III	72	100	7.5YR 4/6	Sandy Loam	Oxy salo mottled with 10 YR 6/4 salo
WF 09.13	I	0	23	10YR 4/2	Sandy Loam	None

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
WF 09.13	II	23	50	10YR 6/4	Sandy Loam	Exposed buried utility and stopped excavation.
WF08.04	I	0	14	10YR 3/3	Sandy Loam	Trash located in here, modern. Not collected
WF08.04	II	14	69	10YR 4/3	Sandy Loam	Disturbed with trash
WF08.05	I	0	40	10YR 5/2	Sand	Fill. Styronfoam, plastic, glass, metal, concrete, asphalt, wax not collected
WF08.05	II	40	70	10YR 4/2	Sand	Fill
WF08.05	III	70	79	10YR 4/6	Sand	Stop for fill impasse- asphalt and metal
WF08.06	I	0	25	10YR 3/3	Loamy Sand	Disturbed fill deposit, modern trash
WF08.08	I	0	10	10YR 4/3	Sandy Loam	Modern trash not collected
WF08.08	II	10	76	10YR 5/6	Sand	None
WF08.08	III	76	88	10YR 4/3	Sand	None
WF09.01	I	0	37	10YR 2/2	Sandy Loam	Fill with modern trash. Not collected
WF09.01	II	37	77	10YR 5/6	Sandy Loam	None
WF09.01	III	77	102	10YR 6/6	Sandy Loam	None
WF09.01	IV	102	112	10YR 6/4	Sand	None
WF09.02	I	0	30	10YR 2/2	Sandy Loam	Humus A horizon. Asphalt, glass, plastic not collected
WF09.02	II	30	39	10YR 7/1	Sand	E horizon
WF09.02	III	39	88	10YR 4/6	Sand	BW 1. Glass not collected
WF09.02	IV	88	100	7.5YR 5/6	Sand	BW 2. Stop for depth
WF09.04	I	0	39	10YR 4/3	Sandy Loam	Fill over buried o
WF09.04	II	39	44	10YR 2/2	Sand	None
WF09.04	III	44	47	10YR 5/1	Sand	None
WF09.04	IV	47	89	10YR 5/6	Sand	None
WF09.04	V	89	100	2.5Y 6/6	Sand	None
WF09.05	I	0	19	10YR 3/2	Sandy Loam	Sod and A horizon in yard. Glass, plastic, brick, asphalt, concrete not collected.

Shovel Test	Stratum	Minimum Stratum Depth	Maximum Stratum Depth	Soil Color	Soil Texture	Comments
WF09.05	II	19	100	10YR 5/3	Sand	Very gravefill. Mottled 10YR 4/3. Glass, plastic, brick not collected. Stop for depth.
WF09.06	I	0	25	10YR 4/3	Sandy Loam	None
WF09.06	II	25	70	10YR 5/6	Sandy Loam	None
WF09.06	III	70	100	10YR 5/4	Sandy Clay	None
WF09.08	I	0	33	10YR 4/3	Sandy Loam	Fill. Disturbed soils.
WF09.08	II	33	72	10YR 7/6	Sand	Compaction present.
WF09.08	III	72	100	5YR 5/8	Sand	Mottled with really red sand
WF09.09	I	0	29	10YR 4/3	Sandy Loam	Modern trash on top. Has chunks of black asphalt
WF09.09	II	29	56	10YR 5/6	Sandy Loam	None
WF09.09	III	56	100	10YR 5/4	Sandy Clay	None
WF09.10	I	0	10	10YR 2/1	Sandy Loam	A horizon
WF09.10	II	10	21	10YR 7/2	Sand	E horizon
WF09.10	III	21	52	10YR 4/6	Sand	Very compact BW 1
WF09.10	IV	52	69	10YR 4/6	Sand	Very cobbly BW 2
WF09.10	V	69	100	10YR 5/6	Sand	Gravelly BC coarse sand. Stop for depth
WF09.11	I	0	13	10YR 4/2	Sandy Loam	A/Ao
WF09.11	II	13	30	7.5YR 5/6	Loamy Sand	Bw1
WF09.11	III	30	65	10YR 5/4	Loamy Sand	Bw2
WF09.11	IV	65	101	10YR 5/8	Sand	BC
WF09.12	I	0	20	2.5Y 4/1	Sand	Located btwn wf prwy and sidewalk. Major disturbance.
WF09.12	II	20	76	10YR 5/6	Sand	None
WF09.12	III	76	100	10YR 6/6	Sand	Asphalt within fill
WF09.14	I	0	9	10YR 4/2	Loamy Sand	Mixed A and W
WF09.14	II	9	22	10YR 5/4	Loamy Sand	Bw mixed with A, stopped due to buried utility disturbance

Appendix D:
Catalog of Collected Artifacts

Shovel Test	Stratum	Depth (cmbs)	Count	Object	Object Type	Material	Object Description	Size	Time Period
F3.10	III	20-40	1	Debitage	Angular Debris / Shatter with Cortex	Quartz	Cortex indicates from small, rounded cobble	25-50 mm	Non-Diagnostic
F3.10	III	20-40	1	Debitage	Angular Debris / Shatter	Quartz		10-25 mm	Non-Diagnostic
F4.05	III	28-40	1	Debitage	Secondary Flake	Quartz		25-50 mm	Non-Diagnostic
F4.10	III	23-48	5	Debitage	Angular Debris / Shatter with Cortex	Quartz		25-50 mm	Non-Diagnostic
F4.10	III	23-48	3	Debitage	Angular Debris / Shatter	Quartz		10-25 mm	Non-Diagnostic
F4.10	III	23-48	3	Debitage	Secondary Flake	Quartz		10-25 mm	Non-Diagnostic
F4.10	III	23-48	5	Debitage	Tertiary Flake	Quartz		10-25 mm	Non-Diagnostic
F4.10	III	23-48	2	Debitage	Tertiary Flake	Quartz		0-10 mm	Non-Diagnostic
F4.10	IV	48-90	1	Debitage	Angular Debris / Shatter with Cortex	Quartz	Cortex indicates from small, rounded cobble	50+ mm	Non-Diagnostic
F4.10	IV	48-90	3	Debitage	Angular Debris / Shatter	Quartz		10-25 mm	Non-Diagnostic
F4.10	IV	48-90	1	Debitage	Primary Flake	Quartz		10-25 mm	Non-Diagnostic
F4.10	IV	48-90	1	Debitage	Secondary Flake	Quartz		25-50 mm	Non-Diagnostic
F4.10	IV	48-90	1	Debitage	Secondary Flake	Quartz		10-25 mm	Non-Diagnostic
F4.10	IV	48-90	2	Debitage	Tertiary Flake	Quartz		10-25 mm	Non-Diagnostic
F4.10	IV	48-90	6	Debitage	Tertiary Flake	Quartz		0-10 mm	Non-Diagnostic
F5.07	III	17-50	1	Core	Amorphous	Quartz	Removed flakes/angular shatter and micro-fractures on opposite ends suggests result of anvil or bipolar lithic reduction; 66 mm x 55 mm x 42 mm	50+ mm	Non-Diagnostic
F5.07	III	17-50	1	Debitage	Tertiary Flake	Quartz		0-10 mm	Non-Diagnostic
F7.05	IV	32-80	1	Debitage	Tertiary Flake	Quartz	Gray discoloration and cloudiness from heating	25-50 mm	Non-Diagnostic
F7.06	II	10-27	1	Thermally Altered Rock		Quartz	Small, rounded, broken cobble; Red discoloration and cloudiness from heating	25-50 mm	Non-Diagnostic
F8.06	III	18-28	1	Thermally Altered Rock		Quartz	Small, rounded, broken cobble; Pink discoloration and cloudiness from heating	25-50 mm	Non-Diagnostic
F8.06	III	18-28	4	Thermally Altered Rock		Quartz	Yellow discoloration and cloudiness from heating	10-25 mm	Non-Diagnostic
F8.07	III	37-68	1	Debitage	Secondary Flake	Quartz		10-25 mm	Non-Diagnostic
F8.07	III	37-68	3	Thermally Altered Rock		Quartz	Small, rounded, broken cobble(s); Red/pink discoloration and cloudiness from heating	25-50 mm	Non-Diagnostic

Shovel Test	Stratum	Depth (cmbs)	Count	Object	Object Type	Material	Object Description	Size	Time Period
F8.07	III	37-68	2	Thermally Altered Rock		Quartz	Red and yellow discoloration, cloudiness, and/or "crumbling" grains from heating	10-25 mm	Non-Diagnostic
F8.08	III	26-35	1	Thermally Altered Rock		Quartz	Red discoloration and "crumbling" grains from heating	25-50 mm	Non-Diagnostic
			52		Total Artifacts				