

SUPPLEMENTAL CULTURAL RESOURCES MANAGEMENT PLAN
Champlain Hudson Power Express HVDC Transmission Line Project
Fort Ann to Kingsbury, CP Rail (Segment 3, Package 2)

[REDACTED-Public Version]

Lake Champlain to New York City
Washington County, New York

HAA 4268-83
SHPO 09PR03910

Submitted to:

KIEWIT ENGINEERING GROUP INC.
10055 Trainstation Circle
Lone Tree, CO 80124

Prepared by:

Hartgen Archeological Associates, Inc.

1744 Washington Avenue Ext.
Rensselaer, New York 12144
p +1 518 283 0534
f +1 518 283 6276
e hartgen@hartgen.com

www.hartgen.com

An ACRA Member Firm
www.acra-crm.org

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MANAGEMENT SUMMARY

SHPO Number: 09PR03910
Involved Agencies: U.S. Department of Energy, U.S. Army Corps of Engineers, NYSHPO
Phase of survey: Supplemental Cultural Resources Management Plan

LOCATION INFORMATION

Municipality: Towns of Fort Ann and Kingsbury, Village of Fort Ann
County: Washington County

CULTURAL RESOURCE MANAGEMENT PLAN OVERVIEW

Objective: *The purpose of this Supplemental Cultural Resources Management Plan is to synthesize data sets into one document, and to provide OPRHP/DPS contact information for identified roles within the original Cultural Resource Management Plan drafted by TRC in 2015 and finalized in 2021.*
The plan also proposes Programmatic Allowances and an Archeological Monitoring Plan to assist with ongoing review and compliance as stipulated in the Programmatic Agreement between DOE and NYSHPO in 2021.
The current Supplemental CRMP focuses on Segment 3, Package 2 from the Town of Fort Ann to the Town of Kingsbury.

Report Authors: Danielle Duguid, Matt Lesniak, and Matthew Kirk, MA RPA
Date of Report: March 2023

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LIST OF ACRONYMS

ACHP – Advisory Council on Historic Preservation
AMP – Archeological Monitoring Plan
APE – Area of Potential Effect
BMP – Best Practices Management Plan (2012)
CA – Consulting Archeologist
CHPE, LLC – Champlain Hudson Power Express, LLC
CRMP – Cultural Resources Management Plan
CRIS – Cultural Resource Inventory System (NYSHPO)
DOE – U.S. Department of Energy
GIS – Geographic Information System
GPS – Global Positioning System
Hartgen – Hartgen Archeological Associates, Inc.
HDD- horizontal directional drilling
HVAC – high-voltage alternating current
HVDC – high-voltage direct current
MOA – Memorandum of Agreement
MP – mile post, railroad
MW – megawatt
NHPA – National Historic Preservation Act
NRE – National Register-eligible
NYAC – New York Archaeological Council
NYSHPO – New York State Historic Preservation Officer
NYSM – New York State Museum
OPRHP – Office of Parks, Recreation and Historic Preservation
PPO – Project Preservation Officer
ROW – Right-of-Way
TRC – TRC Companies, Inc

CULTURAL RESOURCES MANAGEMENT PLAN

1 Introduction

Hartgen Archeological Associates, Inc. (Hartgen) has been retained to provide a Supplemental Cultural Resources Management Plan (CRMP) to the CRMP developed by TRC (TRC 2021)(Appendix 1) for the proposed Champlain Hudson Power Express (Project) located over multiple counties through New York. This Supplemental CRMP addresses the overland portion of route from the Town of Fort Ann to the Town of Kingsbury, and 1,500 feet into the Town of Fort Edward, Washington County. Based on stationing, this package totals 80,181 linear feet, or 15.2 miles.

The Project has received approvals by the U.S. Department of Energy (DOE), and the U.S. Army Corps of Engineers, with consultation from the New York State Historic Preservation Office (NYSHPO). The goal of the Supplemental CRMP is to provide a framework for managing potential impacts to known, relevant historical properties and archeological sites (determined to be eligible for or listed in the National Register of Historic Places). Sites discovered during construction activities will also be managed in the Supplemental CRMP's framework. In addition, this management plan will create a comprehensive framework for identifying and undertaking additional archeological work that may be required prior to and during the construction of the Project.

TRC Companies, Inc. (TRC) created a draft comprehensive Cultural Resources Management Plan in 2015, finalized in 2021 to include three additional reports. This management plan is referred to throughout the current document (Appendix 1), with this document serving to fully incorporate the relevant information for Phase I of construction into one succinct document. The Cultural Resources Management Plan provided detailed procedures for unanticipated discoveries, monitoring during construction-related ground disturbance, and monitoring during post-construction operations; all stipulations of the CRMP (2021) remain applicable. In the event of a conflict between this document and that provided in Appendix 1, the CRMP (2021) will prevail.

This Supplemental CRMP has been developed in response to Programmatic Agreement Stipulation IV(B) and Stipulation II(C)(8 – 11 and 19) and to assist Project compliance with Section 106 of the National Historical Preservation Act. The supplemental plan will be reviewed by the New York State Office of Parks, Recreation and Historic Preservation (OPRHP) as well as the aforementioned federal agencies. This plan was established according to the New York Archaeological Council's *Standards for Cultural Resource Investigations and the Curation of Archaeological Collections* (1994), which are endorsed by OPRHP.

The Programmatic Agreement Among The U.S. Department of Energy, And The New York State Historic Preservation Officer For Managing Historic Properties That May Be Affected By Authorizing The Construction, Operation, Connection And Maintenance Of The Champlain Hudson Power Express HVDC Transmission Line Project (Programmatic Agreement), executed in 2021, stipulates completion of a Cultural Resources Management Plan (CRMP) to create procedures for the consideration and management of historic properties within the Champlain Hudson Power Express HVDC Transmission Line Project (Project).

Stipulation IV(B) within the Programmatic Agreement specifies the CRMP will be applied in lieu of Section 106 implementing regulations 36 CFR Part 800.4 – 800.6 to satisfy compliance with Section 106 of the National Historical Preservation Act (16 U.S.C. 470) related to identification of historic properties (36 CFR Part 800.4), assessment of adverse effects (36 CFR Part 800.5), and resolution of adverse effects (36 CFR Part 800.6).

Current design and engineering requirements indicate effects to historic and landscape resources may also require consideration throughout project execution; this Supplemental CRMP supports streamlined coordination and consultation with NYSHPO through agreement on programmatic allowances and treatments. This Supplemental CRMP provides structure and process for implementing requirements of the Programmatic Agreement and the CRMP (2021).

2 Supplement CRMP Objectives

All components of the segment (Splice Locations and Vaults, HDD, work areas, access roads, etc.) were evaluated to determine whether the proposed work lies within the permitted route (APE) or outside the permitted route. Areas outside the permitted route were further evaluated to determine whether the areas have been previously disturbed (lacking archeological potential) or undisturbed (having archeological potential). Recommendations are proposed for either archeological monitoring during construction in the manner described in Section 5, or archeological testing.

Archeological testing may be utilized in advance of construction. Testing would be conducted by the excavation of 40-centimeter tests placed at 50-foot intervals within the areas defined in Table 8. Excavated soil would be passed through 0.25-inch hardware mesh when feasible and examined for both precontact (Native American) and historic artifacts. The stratigraphy of each test would be recorded including the depth, soil description, and artifact content. The location of each shovel test would be plotted on the project map.

The testing shall adhere to the New York Archaeological Council's *Standards for Cultural Resource Investigations and the Curation of Archaeological Collections* (1994), which are endorsed by OPRHP. The investigation shall be overseen by an Archeologist as defined under the Secretary of the Interior's Professional Qualification Standards outlined in *Archeology and Historic Preservation: Secretary of the Interior's Standards and Guidelines as Amended and Annotated* and required under Title 36 of the Code of Federal Regulations, Section 61 (36 CFR 61).

The survey report(s) shall be prepared according to OPRHP's *State Historic Preservation Office (SHPO) Phase I Archeological Report Format Requirements* (2005) or another format acceptable to OPRHP. As appropriate, reports will contain text, tables, color maps and photographs, shovel test records, and an artifact inventory.

3 Project Information

The Project involves the construction of approximately 339 miles of a high voltage direct current underground and underwater transmission line, running from Montréal, Canada to Queens, New York. This transmission line will bring 1,250 megawatts of hydropower to replace the use of fossil fuels, reducing carbon emissions and helping achieve renewable and clean energy in New York State. This proposed project will provide enough power for more than 1 million homes in New York State. Installation of this transmission line will occur primarily beneath the ground within roadway and railroad right of way. Direct impacts to streams and waterbodies are avoided through means such as attaching to existing infrastructures (bridges and culverts) or using horizontal directional drilling (HDD).

Several archeological reports by Hartgen and TRC examined and detailed the sensitivity and potential of the APE. These resources have been utilized in the creation of the Cultural Resource Management Plan.

The bolded reports include portions of the most current Project (Segment 3) and provide relevant background information.

- Hartgen. 2010a. Pre-Phase IA Archeological Screening: Champlain Hudson Power Express.
- **Hartgen. 2010b. Phase IA Literature review and archeological sensitivity assessment: Champlain-Hudson Power Express.**
- **Hartgen. 2012. Phase IB Archeological Field Reconnaissance and Phase II Archeological Site Evaluation: Champlain Hudson Power Express, Canadian Pacific Railway Segment.**
- Hartgen. 2013a. GIS Analysis: Archeological Sites within APE Archeological Sites Intersected by a 50-ft wide Construction Corridor Along the November 2012 CHPE/TDI Centerline.
- Hartgen. 2013b. GIS Analysis NRHP Properties within APE National Register of Historic Place Eligible (NRE) and Listed (NRL) Properties Intersected by a 50-ft wide Construction Corridor along the November 2012 CHPE/TDI Centerline.

- Hartgen. 2013c. GIS Analysis Underwater Resources within APE Underwater Anomalies and Sites within Lake Champlain and the Hudson River Intersected by a 50-ft wide Construction Corridor along the November 2012 CHPE/TDI Centerline.
- **TRC. 2020a. Phase IA Archeological Assessment of Champlain-Hudson Alternative Routes, New York.**
- TRC. 2020b. Phase IA Archeological Assessment of Champlain Hudson Astoria Converter Station and Astoria Preferred Alternative Route, Boroughs of Queens, New York.
- TRC. 2020c. Phase IA Archeological Assessment of Champlain-Hudson Power Express Project, Harlem Rail Yard Preferred Alternative, Boroughs of Queens, New York.
- TRC. 2021. Phase IA Archaeological Assessment of the Champlain-Hudson New Scotland Converter Station, New Scotland, Albany County, New York.
- TRC. 2022. Phase IA Archaeological Survey letter for the Stony Point Horizontal Directional Drill (HDD), Stony Point, Rockland County, New York.

3.1 Description of the Project

The area of potential effects (APE) includes portions of the Project that will be directly altered by the proposed undertaking. The overall APE encompasses 339 linear miles; the width of the APE varies. For the overall cable route, the Project is divided into 15 terrestrial packages with their associated EM&CP submittals (Table 1).

Table 1. CHPE Packages, Routes, and Locations.

EM&CP Segment	Design Packages	Location Description	Approximate Segment Length (miles)	Anticipated EM&CP Submittal	Anticipated Construction Commencement
OVERLAND SEGMENTS					
1, 2	Package 1A/1B	Putnam to Dresden/Dresden to Whitehall	17.82	April 15, 2022	November 2022
X	X	3 Laydown Yards	N/A	November 17, 2022	February 2023
3	Package 1C/ 2	Whitehall to Fort Ann/Fort Ann to Kingsbury	20.8	December 23, 2022	May 2023
8	Package 5A	Rotterdam to Selkirk	16.99	December 21, 2022	May 2023
9	Package 5B	Selkirk Bypass	5.31	December 21, 2022	May 2023
4, 5	Package 3	Kingsbury to Milton	26.5	March 2023	June 2023
10	Package 6	Ravena to Catskill	20.9	April 2023	June 2023
13, 14, 15	Package 8	Queens	2.13	April 2023	June 2023
6	Package 4A	Milton to Ballston	10.2	April 2023	July 2023
7	Package 4B	Ballston to Schenectady/Rotterdam	9.6	March 2023	July 2023
11	Package 7A	Catskill to Germantown	8.6	March 2023	July 2023
12	Package 7B	Stony Point to Haverstraw	7.6	April 2023	July 2023
Laydown Yards	3, 5B, 6	Fort Edward, Bethlehem, Coxsackie	N/A	November 11, 2022	February 2023
MARINE SEGMENTS					
16	Package 9	Transitional HDD (Stony Point)	N/A	September 29, 2022	July 2023
17	Package 10	3 Transitional HDDs (Putnam, Catskill, Clarkstown)	N/A	December 14, 2022	June 2023
18	Package 11	Lake Champlain	96	February 2023	June 2023
19	Package 12	Hudson River (Pre-Lay Mattressing)	89.1	March 2023	August 2023
20	Package 13	Hudson River (Cable Installation)	89.1	December 2023	June 2024
21	Package 14	Harlem River	6.3	December 2023	June 2024
22	TBD	Converter Station, Astoria Complex (Queens)	N/A	January 2023	June 2023
23	TBD	Astoria Rainey Cable HVAC System (Queens)	3.5	January 31, 2023	TBD

Changes in the APE, including those necessary to avoid known historic and archaeological resources, may be required to accommodate project implementation. Changes to the APE will follow methodology outlined in the CRMP (2021). The CRMP (2021) states: *If the corridor is changed or if a construction zone wider than 55 feet (terrestrial) or 50 feet (in-water) is required to build the Project, then the APE will be adjusted accordingly. All additional efforts to identify, assess, and manage cultural resources shall use the same guidance as that stipulated in the CRMP. It shall be the responsibility of the PPO and his/her designee to work with the appropriately trained archaeologist to ensure that survey and assessment of new APE construction areas is completed before construction takes place* (TRC 2021). Changes in the APE and associated survey and reporting will be provided to Signatories of the Programmatic Agreement in conjunction with annual reporting requirements (Section 3.6 Reporting Requirements).

3.2 Segment 3, Package 2 Activities

This segment extends from the Town of Whitehall from public roadways onto the CP Rail ROW at M 78. The construction activities in this segment include both open trench (typically the railroad ROW) and ductbank excavations (typically in roadway ROWs). The trenches will typically be 4.5 feet in depth and 2.4 feet in width at the base. The open trenches will be backfilled with sand around the conduit, and with flowable fill above. The duct bank excavations will be placed in concrete with flowable fill above and appropriate subbases, bases and asphalt pavement repair (Figure 1).

Disturbance beyond the typical trench cuts includes the location of splice boxes, and boring/receiving pits for HDD installation. These are discussed in detail below relative to potential archeological resources and to previous evaluation and assessment.

3.2.1 Splices

Various splice boxes/joint bays will also be installed to connect the cable segments together into an integrated whole. The splices will generally be about 15 by 40 feet in size.

In all, 27 splice locations will be installed in the Package 2 portion of the Project (Splices 40-45, 45A, 46-49, 49A, 50-64). No additional archeology or monitoring is recommended for most of the splice locations in this package. The exceptions are Splices 63 and 64, which will be located well outside of the permitted route. Archeological testing or monitoring is recommended for these two Project components.

Table 2. Splice Locations and Recommendations for Segment 3, Package 2.

Splice Location	Station Number	Conditions	Notes/Recommendations
Splice 40	20000+00	Wet area.	No archeological work.
Splice 41	20032+45	Between railroad grade and Old State Route 4, work area is sloped.	No archeological work.
Splice 42	20064+00	Splice and work area in road.	No archeological work.
Splice 43	20095+51	Splice in road, work area extends outside into wet area.	No archeological work.
Splice 44	20127+03	Splice in road, work area extends outside into wet area.	No archeological work.
Splice 45	20158+03	Splice in road, work area extends outside into wet area.	No archeological work.
Splice 45A	20189+92	Splice and work area inside permitted route.	No archeological work.
Splice 46	20219+11	Splice inside permitted route, work area outside but sloped.	No archeological work.
Splice 47	20236+92	Splice in road, work area extends outside into wet area.	No archeological work.
Splice 48	20268+96	Splice and work area inside permitted route.	No archeological work.
Splice 49	20279+08	Splice inside permitted route, work area outside but sloped.	No archeological work.
Splice 49A	20306+77	Splice inside permitted route, work area outside but sloped.	No archeological work.
Splice 50	20324+46	Splice inside permitted route, work area outside but sloped.	No archeological work.
Splice 51	20353+47	Splice inside permitted route, work area outside but sloped.	No archeological work.
Splice 52	20380+97	Splice inside permitted route, work area outside but sloped.	No archeological work.

Splice 53	20412+67	Splice and work area inside permitted route.	No archeological work.
Splice 54	20445+06	Splice and work area inside permitted route.	No archeological work.
Splice 55	20477+51	Splice and work area inside permitted route.	No archeological work.
Splice 56	20509+96	Splice and work area inside permitted route, area also wet.	No archeological work.
Splice 57	20542+39	Between railroad ROW and Towpath Road. Work area extends slightly outside permitted route, appears disturbed.	No archeological work.
Splice 58	20574+83	Splice and work area inside permitted route, area also sloped.	No archeological work.
Splice 59	20607+29	Splice and work area inside permitted route, area also sloped.	No archeological work.
Splice 60	20639+73	Splice and work area inside permitted route, area also sloped.	No archeological work.
Splice 61	20672+16	Splice and work area inside permitted route, area also sloped and wet.	No archeological work.
Splice 62	20704+58	Splice and work area inside permitted route, area also sloped and wet.	No archeological work.
Splice 63	20735+06	Splice and work area outside permitted route.	Archeological testing or monitoring.*
Splice 64	20778+21	Splice and work area outside permitted route.	Archeological testing or monitoring.*

3.2.2 HDD

In the Package 2 portion of Segment 3, additional HDD will be required to avoid and minimize impacts to various drainage crossings and road crossings. In all, 17 locations have been identified: HDD 9 to 12, 12A, 13, 13A, 14, 14A, 15 to 21, and 21A.

The majority of the HDD locations are in existing roadways or in previously evaluated areas for archeological resources. The pits for HDD 12, 12A, 13, 14, 17, 18, and 19 are slightly extended beyond the deviation zone. In all of these cases slope, disturbance and wet areas have eliminated archeological potential, and therefore no additional archeological work is recommended. HDD pits for 20, 21, and 21A are significantly outside of the deviation zone and warrant addition testing or archeological monitoring (Table 3).

Table 3. HDD Locations and Recommendations for Segment 3, Package 2.

Item	Station Number	Activity	Notes/Recommendations
HDD 9	20004+095 to 20010+50	Drainage crossing, work area in road.	No archeological work.
HDD 10	20075+10 to 20087+40	NY SR 22 crossing, entry/exit pits within South Old Route 4 roadway.	No archeological work.

* The area may be shovel-tested by a qualified archeologist prior to construction or monitored by a qualified archeologist during construction, see Sections 2.2 and 6, respectively.

HDD 11	20104+90 to 20116+90	Culvert/storm drain crossing, entry/exit pits within South Old Route 4 roadway.	No archeological work.
HDD 12	20178+50 to 20187+70	Under RR from Old State Route 4. Northern pits in wet area slightly outside of deviation zone, southern mostly in permitted route.	No archeological work.
HDD 12A	20193+10 to 20207+90	Used to avoid narrow ROW. Northern pit inside permitted route. South work area extends outside, sloped and disturbed.	No archeological work.
HDD 13	20248+75 to 20263+90	Drainage crossing, northern pit and work area slightly outside permitted route, but wet. Southern pit inside, work area slightly outside.	No archeological work.
HDD 13A	20281+00 to 20290+25	Drainage crossing, pits and work areas inside permitted route.	No archeological work.
HDD 14	20292+00 to 20300+10	Crosses Ann Street and moves to east side of rail ROW. Both pit work areas slightly outside permitted route. Southern work area is wet.	No archeological work.
HDD 14A	20331+25 to 20337+40	Cross to west side of rail ROW. Pits and work areas inside permitted route.	No archeological work.
HDD 15	20418+25 to 20424+45	Drai age crossing, both pits and work areas inside permitted route.	No archeological work.
HDD 16	20499+00 to 20505+40	Crosses NYS Route 149, pits and work areas inside permitted route.	No archeological work.
HDD 17	20546+00 to 20551+60	Drainage crossing, work area slightly outside of permitted route but sloped.	No archeological work.
HDD 18	20649+00 to 20655+10	Drainage crossing, work area slightly outside of permitted route.	No archeological work.
HDD 19	20697+10 to 20702+90	Drainage crossing, work area slightly outside of permitted route.	No archeological work.
HDD 20	20737+60 to 20749+50	Crossing NY SR 196, northern pits and work areas outside permitted route. Southern work area extends outside permitted route.	Archeological monitoring for southern work area only.*
HDD 21	20756+80 to 20776+50	Crosses wet areas/restricted areas. North work area only slightly outside permitted route. Southern work area well outside permitted route.	Archeological monitoring for southern pit and work area only.*
HDD 21A	20780+00 to 20799+30	Crosses wet areas. Northern work area well outside permitted route. Southern work area only slightly outside permitted and appears disturbed.	Archeological monitoring for northern pit and work area only.*

3.2.3 Access Roads and Kingsbury Show Up Yard

This segment will also require temporary access roads to move equipment and workers from public roadways to the CP Rail ROW. The roads may be constructed in a variety of manners including timber matting on the existing ground surface, or placing geotextile fabric on the ground surface with gravel or other stone material atop it. These would require minimal, if any, mechanical grading. Grading up to 16 inches may be necessary in some locations to remove the topsoil, which will be stockpiled and returned once construction activities end. In Package 2, a total of 14 access roads has been identified (Table 4).

* The area will be monitored by a qualified archeologist during construction, see Section 6.

One of the access roads (NY SR 4 at Station 20357) will cross over the old Champlain Canal (further discussed below). The portion of the old Champlain Canal prism which will be crossed by the Station 20357+00 access road is filled, and covered by a paved recreational path, part of the Empire State Trail system.

Timber mats or geotextile fabric covered with stone may be used for the access roads. In instances where grading is to occur, it is recommended that archeologists monitor the process. It appears these decisions will be made during construction, and therefore close coordination with the PPO and Consulting Archeologist will be necessary.

Also, a show up yard is proposed along the access road at Station 20466+00 between Route 149 and the railroad ROW. The Kingsbury show up yard will include a parking area, materials storage area, and an area for HDD material and equipment. The proposed yard is within an existing storage yard at a solar construction site. The yard is within the Wright Farmstead, a National Register-eligible property. Due to numerous changes and alterations to the farmhouse, as well as the demolition of many, if not all, of the contributing outbuildings, the property is likely no longer eligible.

Table 4. Access Roads for Segment 3, Package 2.

Access Roads	Station Number	Location	Notes/Recommendations
Off NY Route 4	20182+00	Farm road/cell tower access road. Disturbed.	No archeological work.
Off Flatrock Road	20204+00	Existing access point to RR.	No archeological work.
Off NY Route 4	20235+00	Existing access point to RR.	No archeological work.
Off NY Route 4, near Crandall Lane	20280+00	Existing access point to RR (informal), wooded at end but sloped.	No archeological work.
Off NY Route 4	20357+00	Farm fields, rail trail crossing, and fallow fields. Passes over filled Champlain canal prism.	No archeological work (if topsoil remains intact).
Off CR 149	20419+50	To be placed mostly along existing farm lane.	No archeological work (if topsoil remains intact).
Off CR 149, near O'Conner Lane	20446+00	To be placed within active farm fields.	No archeological work (if topsoil remains intact).
NY Route 149	20466+00	Within National Register eligible Wright Farm Complex. Previously disturbed/graded, now an equipment yard for 2323 NY Route 149.	No archeological work. Property likely no longer eligible, no protection measures recommended.
Kingsbury Show-Up Yard	20466+00	Within National Register eligible Wright Farm Complex. The proposed yard will use an existing materials storage yard, previously disturbed.	No archeological work. Property likely no longer eligible, no protection measures recommended.
Off Towpath Road	20512+00	Mostly active farm fields, and some wooded sections.	No archeological work. (if topsoil remains intact).
Off Towpath Road	20576+00	Active farm field and fallow fields.	No archeological testing (if topsoil remains intact).
Off Towpath Road	20643+00	Existing informal access road, disturbed.	No archeological work.
Off Towpath Road	20674+00	Fallow fields.	No archeological work. (if topsoil remains intact).
Off Towpath Road	20707+00	Active farm field and fallow fields.	No archeological work. (if topsoil remains intact).
Splice 64 Access Drive off Towpath Road	20747+00 and 20755+00	Except for the northern portion, follows the improved Empire State Trail (formerly Towpath Lane) along east side of old Champlain Canal.	No archeological work, except for the northern portion through farm field (if grading is to occur).

3.2.4 Deviations/Excursions from Permitted Route

Due to design and engineering constraints, particularly wetlands and other environmental factors, the proposed cable route and some temporary access roads deviate outside the area previously archeologically considered.

These include nine relatively short segments. Some of these segments also contain splice boxes and HDD pits, addressed in Tables 3 and 4 above. The following recommendations pertain only to the cable route and access roads. In all, it is recommended that limited testing or archeological monitoring be performed in portions of five (5) of the segments: S3-P2-4, S3-P2-5, S3-P2-7, S3-P2-12, and S3-P2-14.

Table 5. Areas of Deviation/Excursions from Permitted Route and Recommendations.

Deviation/Excursion	Station	Proposed activities	Observations	Archeological Recommendations
S3-P2-1	20192+50 to 20209+00	HDD 12A and Splice 45A	Sloped.	No archeological work.
S3-P2-2	20249+50 to 20254+35, 20254+35 to 20269+94	HDD 13	Wet.	No archeological work.
S3-P2-3	20284+00 to 20290+00	HDD 13A	Minor excursion and sloped, and mostly below grade	No archeological work.
S3-P2-4	20300+50 to 20304+60 20310+50 to 20320+50	Cable installation and parallel access road.	Appears level and undisturbed.	Testing or monitoring for dry areas.*
S3-P2-5	20329+74 to 20332+00	HDD 14A and access road and parking area.	Appears level and undisturbed.	Testing or monitoring for parking area at end of access road.*
S3-P2-6	20383+09 to 20385+00	Cable installation.	Disturbed, wet, and sloped.	No archeological work.
S3-P2-7	20388+74 to 20449+00	Cable installation and parallel access road.	Variable.	Testing or monitoring for parallel access road if to be graded. Also, for parking areas at 20420+00 and 20425+50.*
S3-P2-8	20473+00 to 20485+00	Splice 55	Wet and sloped.	No archeological work.
S3-P2-9	20498+40 to 20501+10	HDD 16	Disturbed and wet.	No archeological work.
S3-P2-10	20578+35 to 20580+40	Cable installation.	Wet and sloped.	No archeological work.
S3-P2-11	20587+30 to 20590+06	Cable installation.	Wet and sloped.	No archeological work.
S3-P2-12	20647+88 to 20656+16	HDD 18 and parallel access road.	Level and undisturbed.	Testing or monitoring parking area at Sta. 20656+00.*
S3-P2-13	20715+50 to 20718+00	Cable installation.	Wet and sloped.	No archeological work.
S3-P2-14	20733+00 to 20801+71	HDD 20, Splice 63, and parallel access road.	Level and undisturbed.	Testing or monitoring parking area at Sta. 20733+60 and Sta. 20778+50.*

* The area may be shovel-tested by a qualified archeologist prior to construction or monitored by a qualified archeologist during construction, see Sections 2.2 and 6, respectively.

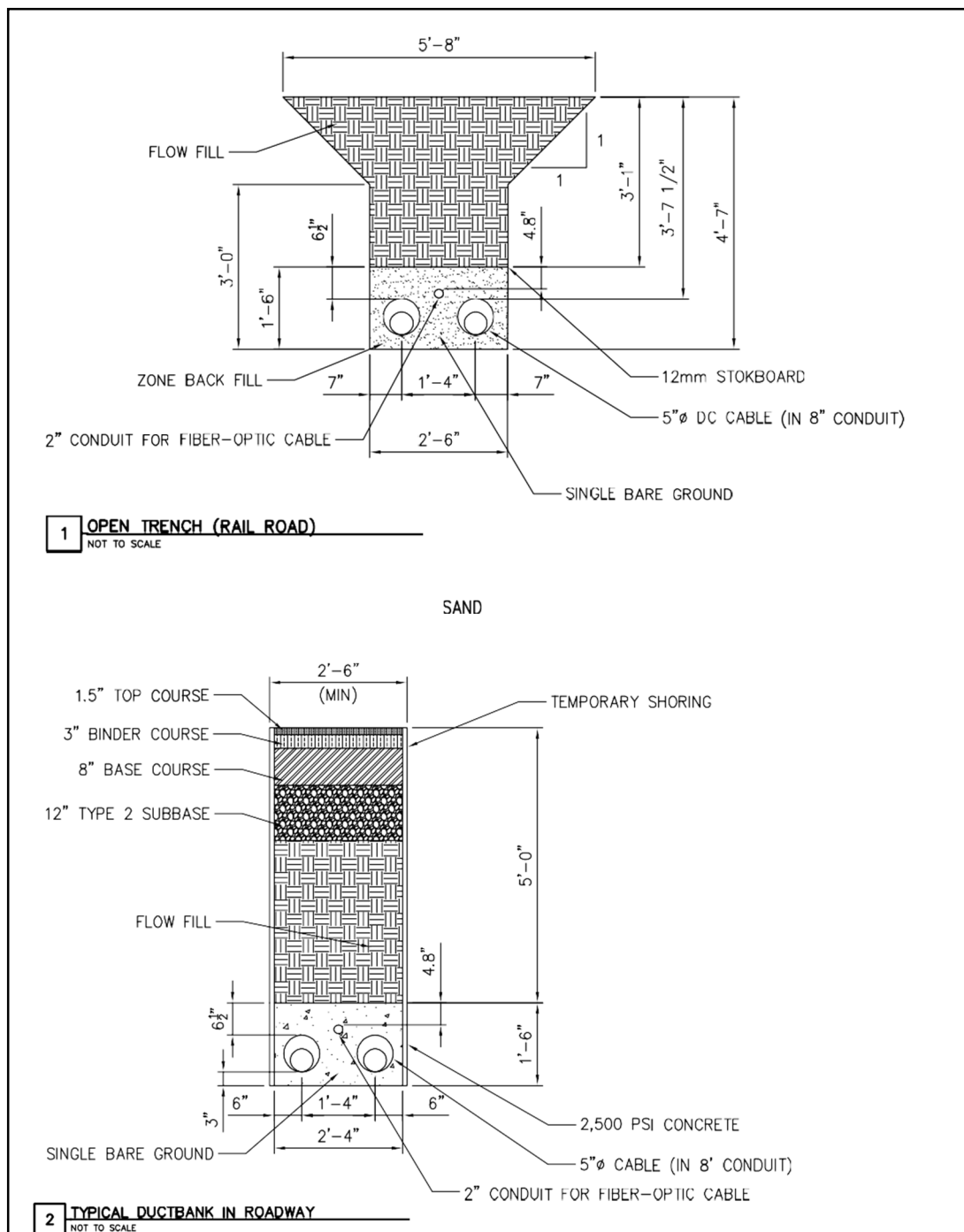


Figure 1. Typical open trench (railroad) and duct bank (roadway) installation of the cable illustrated.

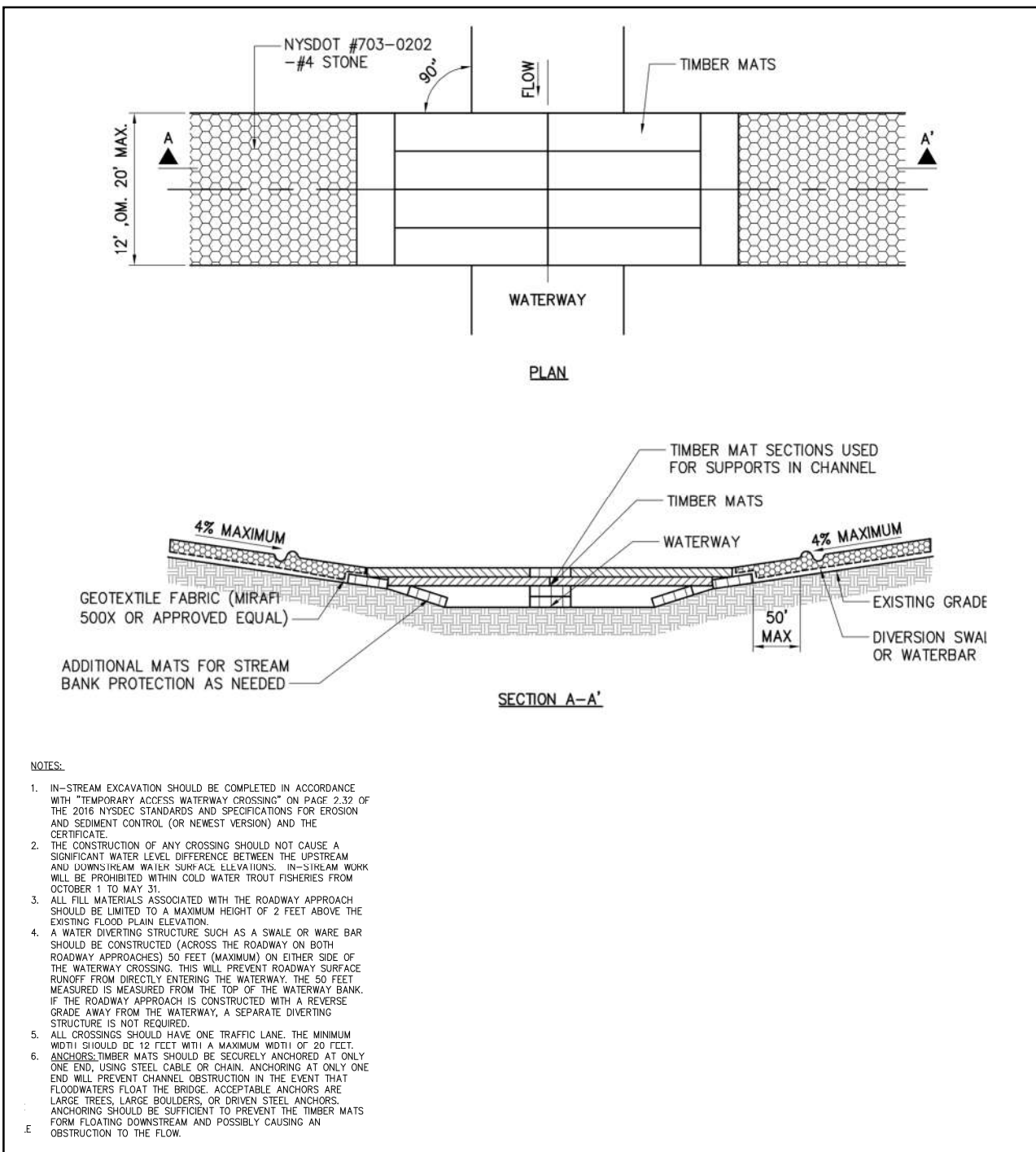


Figure 2. Schematic of typical crossing of streams including the old Champlain Canal prism, filled to various extents throughout the Project.

3.3 Historic/Archeological Properties within/along the Cable Route

During the 2012 survey of the CP rail section of the Project, Hartgen identified twenty-one (21) archeological sites. Of these, two are located within the Segment 3, Package 2 portion (from north to south): CHPE Site 6/Saratoga & Washington Railroad, and CHPE Site 7 (a precontact site). The proposed cable route in relation to these resources is described in more detail below. In addition, the modern Barge Canal and the former alignment of the old Champlain Canal lie within and along the proposed cable route. The modern Barge Canal has been listed on the National Register of Historic Places, and the old Champlain Canal on the State Register.

3.3.1 NYSM 7500, 7501, 7732, 7412 and "Traces of Occupation" (11513.000068)

These sites are likely to have been reported by Arthur C. Parker based on precontact archeological finds from the early 1920s. They all may be related to each other, or even represent parts of the same very large site.

These site locations likely do not reflect the precise area of precontact deposits of features, but instead indicate a relatively higher sensitivity for these resources within their mapped boundaries. As a result, no archeological recommendations are provided for these sites as they are nebulous and difficult to pinpoint with any accuracy.

3.3.2 CHPE Site 6/Saratoga & Washington Railroad (11513.000070)

This site is in the Town of Kingsbury. This site may be the remains of a corduroy road, or a broad pad laid down to support the railroad over the swamp when it was constructed, circa 1848. The site consists of axe-hewn wood found in shovel tests along the railroad embankment. The site includes no artifact assemblage, but it may be evidence of an early construction technique of the railroad, and as such is potentially eligible for the National Register.

The cable will be installed along the west side of the tracks. No archeological monitoring or additional testing is recommended, as the site will be avoided.

3.3.3 CHPE Site 7 (11513.000071)

This precontact site is located in the Town of Kingsbury, between the old Champlain Canal prism and the modern Barge Canal. Artifacts include several bifaces and utilized flakes, nearly 200 chert flakes, and seventy (70) fire-cracked rocks. A small number of historic artifacts were found but do not contribute to the site. Precontact artifacts were limited to an area of concentration approximately 280 feet long. No precontact pottery was found, which may suggest a pre-Woodland date for this site. No activities are currently planned at the site, and no additional archeological work is recommended.

3.3.4 Champlain Canal and New York Barge Canal Historic District (14NR06559)

The New York Barge Canal Historic District is a National Register listed property and a National Historic Landmark. The property boundaries largely follow the current Champlain Canal (Barge Canal) channel from Whitehall to Fort Edward. The district is typically east of the CP Rail ROW and the Project. Along Old State Route 4, the district is immediately adjacent to the east side of the road. The Project is sited on the west side and will not directly impact the district. No archeological work or other protection measures are recommended.

The old Champlain Canal has been listed on the State Register of Historic Places. Also, the property has been determined eligible for National Register. Sections of the former Champlain Canal prism remain largely intact and watered. These extant portions of the old canal are found in the southern portion of this segment, along the west side of Towpath Road. The Project crosses a filled portion of the old Champlain Canal at the proposed access road from NY Route 4, near Crandall Lane (Station 20280+00). The Empire State Trail system's paved recreation path now occupies the former prism at the location of the Crandall Lane access road. Therefore, no archeological work or protective measures are recommended.

3.3.5 Fort Ann Freight Station (1546.000008)

The 1851 freight house on Ann Street, in the Village of Fort Ann, had been determined eligible for the National Register for its association with 19th-century, rural railroads. The building was moved several times, first in the early 20th century for construction of the nearby Barge Canal. The early 20th-century move brought the freight house to the northwest corner of the intersection of Ann Street and the railroad. The CRIS system places the structure along the CP Rail ROW in the location previously described, however, it was moved again to the south side of Ann Street opposite Canal Street sometime after 1996. The structure is no longer extant.

3.3.6 Wright Farmstead (11513.000057)

The Wright Farmstead was determined eligible for the National Register in 2014. The complex is located at 2323 NY Route 149, in the Town of Kingsbury. In 2014, the property was still an active farm. The farmstead consists of a circa 1828 brick farmhouse with an 1840s wooden wing, and a complex of barns and related outbuildings, all in a rural setting. Since 2014, the farm has been converted to a commercial property (Positive Energy-solar company) owned by 19-33 West Main Street LLC. The former farmhouse has been altered with a ramp and new front stairs, updated fenestration, and other modifications including to the attached carriage house. The former barns and outbuildings were removed around 2010, and replaced with new, metal-sheathed storage facilities. It is unlikely that the former farmstead still meets any of the eligibility criteria for the National Register.

Project impacts include the cable installation, a temporary access road for Splice 55, and the Kingsbury Show Up Yard. The Project activities will not directly impact the former farmstead, as these activities will be temporary in nature.

Table 6. Project Activities near or within Known Archeological Sites and Historic Properties.

Resources	Activity	Location	Conditions	Recommendation
NYSM 7500, 7501, 7732, 7412 and Site 11513.000068	Spans the length of the cable route, includes all splice, HDD, and access roads.	Town of Fort Ann, Village of Fort Ann, Town of Kingsbury.	Variable, these sites indicate an elevated sensitivity for precontact deposits and features but are not precisely located.	No recommendations specific to these resources.
CHPE Site 6/Saratoga & Washington Railroad (11513.000070)	Cable installation on opposite side of tracks from site.	Town of Kingsbury	The site is on dry ground, but the Project will pass through an extensive wet area.	None, as the site will be avoided.
CHPE Site 7 (11513.000071)	Cable installation on opposite side of tracks from site.	Town of Kingsbury	The site is on dry ground, but the Project will pass through an extensive wet area.	None, as the site will be avoided.
Champlain Canal and New York Barge Canal Historic District (14NR06559)	Virtually entire length of the segment cable installation between the old Champlain Canal remnants and the current New York Barge Canal. One crossing for access road where old canal prism is filled and covered by paved trail.	Town of Fort Ann, Village of Fort Ann, Town of Kingsbury	Project is between the two resources, in some locations immediately adjacent to one or the other corridor.	None, as both resources will primarily be avoided.

Resources	Activity	Location	Conditions	Recommendation
Fort Ann Freight Station (1546.000008)	Cable installation in vicinity.	Ann Street, Village of Fort Ann. Was moved twice, lastly away from the Project and outside of CP Rail ROW.	No longer extant.	None, no longer within Project segment.
Wright Farmstead (11513.000057)	Cable installation, temporary access road, Splice 55, and Kingsbury Show Up Yard.	2323 NY Route 149, Town of Kingsbury.	Former 19 th -century farm complex with brick farmhouse and numerous outbuildings. The property has been converted to commercial use, farmhouse has been altered and outbuildings, demolished.	Property is likely no longer eligible, and impacts are temporary and not direct. No archeological work recommended.

4 Construction Timeline

The construction timeline is November 2022 to December 2025 for the entire project.

5 Cultural Resource Management Plan

5.1 Objective

It is the objective of this CRMP to demonstrate a comprehensive plan for the encounter of cultural resources during the construction and installation of the transmission line, and of various other components affiliated with the transmission line.

TRC created a Final CRMP for the permitting process, with an overall permitting CRMP created in 2015, and subsequent revisions and addendums in 2021. This current report serves as the Supplemental CRMP for the now planned construction activities, tasked in synthesizing the previously reported data into one document and identifying roles and points of contact for communication ease. No areas of archeological monitoring have been previously identified in this portion of the Project.

The CRMP also adheres to the Best Practices Management Plan (BMP) developed by the Certificate Holder, Transmission Developers Inc., in 2012 as agreed upon by the New York State Department of Public Services and other stakeholders.

Currently the Consulting Archeologist (CA) for the terrestrial portion of the Project is Matthew Kirk, Hartgen Archeological Associates, Inc. The Project Preservation Officer (PPO) is Ashley L. Bushey from the construction team, Kiewit.

5.2 Heritage Areas, Special Events, and Other Resources

As part of the Section 106 process, the federal agency solicited comment and feedback from Tribal Nations that have expressed an interest in the regions in which the Project is to be constructed. As part of that endeavor, no traditional cultural properties were identified within or immediately adjacent to the Project. No other heritage areas or special events have been identified within this segment of the Project. The Certificate Holder, and its assignees, continues to solicit information from the public and other stakeholders to identify such areas, should they exist. If a heritage area or special event is identified, the Project will coordinate mitigation measures which may include restrictions on workspace or access to sites, scheduling considerations, or work hour reductions.

5.3 Project Preservation Officer (PPO)

Hartgen will act as the Consulting Archeologist (CA) for the purpose of this effort. The CA will work closely with the Project Preservation Officer (PPO); the PPO, or their designee, will be present for all ground disturbing activities, and will have “stop-work” authority. The PPO will be part of the prime construction management team, Kiewit Corporation.

It is the responsibility of the CA to train this individual as a PPO and to provide a hands-on workshop for construction personnel, as designated by the PPO. The PPO and the construction team should have an understanding of cultural resources present in different areas, as well as understanding the potential for unknown cultural deposits. It is the responsibility of the PPO to implement the CRMP and ensure that the requirements and conditions of the CRMP are met. Table 7 includes the necessary contact information.

The PPO will have the authority to cease excavation or construction work. In the event of encountering cultural materials or human remains, it is the responsibility of the PPO to halt construction activities and contact and coordinate with the CA to visit the location of the discoveries as quickly as possible. Unanticipated discoveries, such as human remains, will follow the protocols developed by OPRHP, in consultation and coordination with the state’s Tribal entities, in 2021. This protocol supersedes previous iterations presented in the BMP, CRMP (2021), and other related documents and plans (Appendix 1).

In the event of these discoveries, the CA will have up to three workdays to document and remove cultural material from the APE before the construction continues. The CA, in consultation with the PPO and the NYSHPO, may request additional archeological field assistance to complete the necessary work in a timely manner. It is the responsibility of the PPO to work with the appropriately trained archeologists to ensure that the survey and assessment of any change in the APE is completed prior to construction taking place.

5.4 Identification of Historic Properties

Changes in the APE or modifications to work proposed within the APE will prompt review of the subject location(s) for historic properties. The review will include archeological survey as specified in the CRMP (2021) in addition to completion of a files search that will include previous survey data through New York CRIS, and which may be supplemented with local assessor records, historic topographic maps, historic aerial images, Sanborn Fire Insurance and other historic maps, and other resources as available.

Properties are typically considered to hold historic potential when they meet or exceed 50 years of age. The Project may elect to consider the historic potential of properties approaching this age threshold to accommodate anticipated construction horizons. The Project will complete a survey evaluation for properties that meet or exceed the age threshold for historic potential, have no existing determination of NRHP eligibility or a determination ten or more years old, and may be affected by project activities. The evaluation will be completed by a cultural resource specialist who meets or exceeds the Secretary of the Interior’s Professional Qualification Standards (SOI Standards) in a discipline appropriate for the subject site; archeological sites will be evaluated by professionals who meet or exceed the SOI Standards in the area of archeology; architectural and landscape sites will be evaluated by professionals who meet or exceed the SOI Standards in the area of Architectural History. Survey evaluations will be subject to quality assurance review by a professional other than the author(s) who meets or exceeds applicable SOI Standards. Survey information will be input into the New York CRIS system prior to submission of annual reports on January 10 of each calendar year this agreement is in effect.

5.5 Reporting Requirements

The CRMP (2021) establishes a requirement for annual reporting concerning activities conducted under the CRMP (2021): *The PPO will prepare an annual report to the DOE and NYSHPO (and any of the other signatory or consulting parties listed in the Programmatic Agreement), which summarizes activities conducted under this CRMP on an annual basis for as long as this CRMP is in effect (i.e., through post-construction monitoring). The report will be completed and submitted on or before January 10 of each year. The CRMP may be updated and/or revised as appropriate to improve its implementation so long*

as concurrence is reached by the parties involved is achieved. The annual report will include a summary of all historic properties and archaeological resources that may have been encountered during construction and how they were treated. Post-construction reports will identify which cultural resources were monitored and provide a summary of resource conditions and whether looting or other forms of ground disturbance were noted (TRC 2021).

The PPO will establish and maintain:

- A system of tracking archeological monitoring reports;
- Application of Program Comments, Exemptions, or Program Alternatives;
- Application of Programmatic Allowances;
- Implementation of Treatment Measures;
- Potential changes to APE;
- Annual report that summarizes the above items stipulated by the CRMP (2021).

5.6 Barriers and Other Protective Measures

No additional protective measures with respect to cultural resources have been identified or requested by stakeholders for the current segments of the Project. If portions of the Project are altered, additional assessment, which may include desktop review, pedestrian survey, and/or archeological shovel tests, will be required to determine the presence or absence of cultural resources. Should cultural resources be identified, the Certificate Holder will avoid these resources if possible. Protective measures may include installation of temporary fencing and/or site delineation on Facility maps. Should an archeological site be impacted by Project activities, mitigation will include notification procedures and data recovery as stipulated in the Section 4.0 of the CRMP, and/or other treatment measures determined through consultation with NYSHPO, Tribal Nations, and consulting parties.

5.7 Programmatic Allowances

Activities considered Programmatic Allowances are not exempt from archeological monitoring and remain subject to unanticipated discovery protocols, including stop-work provisions, as contained in the CRMP (2021).

Programmatic Allowances include actions where historic properties will not be affected, or effects to historic properties hold limited potential to diminish historic integrity. Where Programmatic Allowances are applicable, the action will not require independent consultation with the State Historic Preservation Office (SHPO).

Application of Programmatic Allowances requires review by Project Preservation Officer (PPO). The PPO must complete:

- Memorandum to file containing a verbal description of work proposed, and a verbal description and map of geographic area of the work;
- Summary of file search and/or literature review conducted to identify potential historic properties;
- Description of historic properties affected (if any);
- Justification for the application of one or more Programmatic Allowances.

The Project will maintain a tracking system of memoranda applying Programmatic Allowances, which will be communicated to NYSHPO and the Programmatic Agreement signatories in an annual report.

In addition to the Programmatic Allowances contained in this document, the Project may include application of relevant Section 106 Program Comments and program alternatives including but not limited to:

- Program Comment for Actions Affecting Post-1945 Concrete and Steel Bridges (*Federal Register, Vol. 77, No. 222, November 16, 2012*)

https://www.achp.gov/sites/default/files/program_comments/2017-01/program%20comment%20concrete%20and%20steel%20bridges.pdf

- Program Comment to Exempt Consideration of Effects to Rail Properties within Rail Rights-of-Way (*Federal Register Vol. 84, No. 125, June 28, 2019*)
<https://www.govinfo.gov/content/pkg/FR-2019-06-28/pdf/2019-13779.pdf>
- Advisory Council on Historic Preservation (ACHP) Exemption Regarding Historic Preservation Review Process for Effect to the Interstate Highway System (*Federal Register Vol 70, No. 46, March 10, 2005*)
https://www.achp.gov/sites/default/files/exemptions/2017-01/final_interstate_exemption_notice.pdf

5.7.1 Transportation Facilities

- A. Resurfacing existing roadways and/or replacement in-kind of highway signals, signage, or appurtenances when approved by the owner of the transportation facility.
- B. Replacement in-kind of railroad signals, crossing materials, and other railroad features or appurtenances when approved by the owner of the transportation facility.
- C. Installation of utility attachments on bridges in areas with existing utility attachments.

5.7.2 Ground Disturbing Activities

- A. Ground disturbing activities within areas of documented previous disturbance.
- B. Ground disturbing activities within non-historic and non-contributing properties or features when no vertical improvements are proposed. Vertical improvements may consist of, but are not limited to, buildings, structures, and other forms of infrastructure with height above ground and constructed by the project.
- C. Ground disturbing activities within historic and contributing properties when action is discrete (including but not limited to edges of agricultural fields, wooded areas, lawns, or curbs), where no contributing or potentially contributing buildings, structures, objects, sites, or features are present (including but not limited to slate sidewalks, hitching posts, carriage steps, mature trees, fences, retaining walls, and other landscaping dating to the historic period of 50 years or more in age).

5.7.3 Temporary Staging and Temporary Facilities

- A. Temporary staging or stockpiling within existing parking areas.
- B. Temporary staging or stockpiling within transportation rights of way.
- C. Temporary staging or stockpiling within areas with documented previous ground disturbance when the ground is returned to pre-construction appearance, including contours and vegetation.
- D. Installation of temporary construction support facilities when the ground is returned to pre-construction appearance, including contours and vegetation.
- E. Location of temporary construction trailers not requiring a foundation or pad.

5.7.4 Utilities, Lighting, and Maintenance Facilities

- A. Installation of underground utilities using directional bore drilling or similar method.
- B. Replacement, repair, and/or maintenance of existing underground utilities in-kind when work occurs within the existing utility footprint.
- C. Installation, replacement, or upgrade to lighting within transportation rights of way and/or at Project locations requiring routine maintenance.
- D. Establishing maintenance facilities within Project easements or right of way no more than 10-feet high with a footprint no more than 120 square feet when facility is not located within a State

Register of Historic Places (SRHP) or National Register of Historic Places (NRHP) historic district.

5.7.5 Pre-Construction Due Diligence and Testing

- A. Conducting geotechnical testing, hazardous materials sampling, seismic or vibration testing or monitoring, or drill samples.
- B. Wetland testing and delineation.
- C. Wildlife surveys and inventories.
- D. Property line and ownership verification surveys.
- E. Utility location surveys.

5.7.6 Hazard and Hazardous Waste Removal

- A. Removal of debris related to weather or storm damage, or present as a result of modern dumping.
- B. Hazardous waste removal.

5.7.7 Environmentally Sensitive Area (ESA) Protection and Mitigation

- A. Installation of temporary fencing to protect areas of cultural, biological, or other environmentally sensitive area from the effects of construction.
- B. Obtaining credits in/from and existing wetland mitigation bank.
- C. Vegetation or landscaping to support habitat mitigation when the subject action affects less than one-half acre and does not occur within an archeologically sensitive area, as defined by the Supplemental CRMP.

5.7.8 Drainage Improvements

- A. Erosion control measures include best management practices, placement of rip rap within non-historic channels, and emergency erosion control measures.
- B. Re-grading or re-establishing existing drainage channels.
- C. Temporary drainage systems including culvert placement and grading, provided the area is returned to pre-construction appearance.
- D. Replacement or up-sizing corrugated metal pipe (CMP), concrete box culvert (CBC), reinforced concrete pipe (RCP), and plastic pipe culverts where no architectural headwalls or wingwalls are present or where these features, if present, will remain in place.

5.7.9 Signage and Surveillance

- A. Installation, maintenance, repair, or removal of security systems.
- B. Installation of signage not located within a NRHP district.
- C. Replacement of existing signs; including within a NRHP district when replacement is in-kind and at the same location as the sign to be replaced.
- D. Maintenance, repair, or removal of signage.
- E. Installation of less than 100 linear feet of security fence within Project easements or right of way when not located within a SRHP or NRHP historic district.

5.7.10 Easements and Right of Way

- A. Acquisition of easements or right of way from non-historic properties and when not located within a State Register of Historic Places (SRHP) or National Register of Historic Places (NRHP) historic district.

- B. Acquisition of easements or right of way for subterranean activities when no surface rights or access is conferred.

5.8 Treatment Measures

When Project actions do not qualify as Programmatic Allowances, the Project will complete an evaluation of the potential for actions to diminish the historic integrity of historic or archeological resources, as defined in 36 CFR Part 800.5(a)(1). The Project may reference applicable National Register Bulletins, published by the National Park Service, to support the evaluation. Project actions found to diminish integrity as defined in 36 CFR Part 800.5(a)(1) will require Treatment Measures. The Project will complete a memorandum documenting eligibility of the resource(s), application of the criteria of adverse effect, avoidance measures considered, efforts to minimize the effect, coordination with property owner(s) or local government(s) in selection of Treatment Measures if applicable, and rationale for application of the selected Treatment Measure, if applicable. A separate Memorandum of Agreement (MOA) will not be required when one or more of the following Treatment Measures are selected. If the Project action is determined not to diminish integrity, further action will not be required.

The Project will maintain a tracking system of memoranda and Treatment Measures, which will be communicated to NYSHPO and the Programmatic Agreement signatories in the annual report.

This section will not apply to designated National Historic Landmark properties, as consultation with the Department of the Interior is required (36 CFR Part 800.10), generally conducted via consultation with the National Park Service.

5.8.1 Data Recovery

Data recovery and reporting is the preferred mitigation for archeological sites. Implementation of this Treatment Measure will follow protocol contained in CRMP (2021) Section 4.0 Project Effects and Management Measures. Additional details concerning data recovery for resources identified during archeological monitoring or that are unanticipated discoveries are outlined in more detail below.

5.8.2 Certified Local Government or Historic Preservation Board/Commission Priority Project Sponsorship

The Project crosses through several Certified Local Government (CLG) jurisdictions. CLG programs are divisions of municipal or county governments which can create and implement local-level historic preservation planning and programming. Many CLGs maintain a formal historic preservation plan containing goals and priority projects for preservation activities within their jurisdiction. Whether or not a CLG maintains a formal historic preservation plan, all are required to maintain a system of identification and documentation of historic properties, sometimes referred to as historic survey. Communities may also maintain a Historic Preservation Board, Commission, or similar entity and choose not to become a CLG. Each program will formally or informally document preservation priorities within their jurisdictions, often identifying lack of funding as a significant barrier to implementation.

Site-specific mitigation often has limited value to advance historic preservation in a community. To create broader impact to the historic properties and the communities they serve, the Project may coordinate with CLGs or Historic Preservation Boards/Commissions to sponsor one or more of the priority projects identified within that entity's jurisdiction and not necessarily within the Project APE.

Example projects include, but are not limited to, historic surveys, State or National Register Nominations, historic context documentation, completion (or update) of a strategic preservation plan, completion of a strategic historic survey plan, archeological or architectural history field schools, historic preservation technical trainings or workshops, workshops related to historic preservation tax credits, and more.

New York CLGs are listed on the NYSHPO website at: <https://parks.ny.gov/shpo/certified-local-governments/listing.aspx>

5.8.3 Digital Photography Package

Prior to implementation of the work necessitating implementation of Treatment Measures, a digital photography package will be prepared by an individual meeting the Secretary of the Interior's Professional Qualification Standards. The photography package will include images demonstrating the property in its setting and context, images showing each exterior building elevation, images showing the spatial relationships of building(s) and features of the site, and appropriate detail images. A map showing photograph locations and view direction will be included. A photography log will be included containing photograph numbers, cardinal direction viewpoint, historic resource name and number (if applicable), street address (if applicable), city or town, county, state, and image description. The digital photography package will follow the National Park Service photography standards for the National Register of Historic Places:

https://www.nps.gov/subjects/nationalregister/upload/Photo_Policy_update_2013_05_15_508.pdf

Copies of the photography package on archival CD will be provided to NYSHPO, local Historic Preservation Board or Commission, and/or interested local or state repositories. One set of archivally produced, archivally labelled photographs will be provided to the NYSHPO.

5.8.4 National Park Service Heritage Documentation (HABS/HAER/HALS)

Prior to implementation of the work necessitating implementation of Treatment Measures, the property subject to the work will be documented to National Park Service standards using the appropriate heritage documentation form: Historic American Building Survey (HABS), Historic American Engineering Record (HAER), or Historic American Landscape Survey (HALS). Work will be completed by a Cultural Resource Specialist who meets or exceeds the Secretary of the Interior's Professional Qualification Standards. The appropriate level of documentation (Level I, Level II, Level III) will be selected based on the Secretary of the Interior's Standards and Guidelines for Architectural and Engineering Documentation, as published in the Federal Register July 21, 2003: https://www.NationalParkService.gov/hdp/standards/standards_regs.pdf

The Project will follow HABS/HAER/HALS Standards & Guidelines published by National Park Service Heritage Documentation Programs. The Project will coordinate with the National Park Service Northeast Region to obtain an applicable HABS/HAER/HALS. The Project will complete comment resolution with the National Park Service Northeast Region and submit final documentation for transmittal to the Library of Congress.

5.8.5 Public Interpretation

Public interpretation will be designed and produced, which may include print or digital media, on-site or off-site signage, workshops or technical trainings, or other means of engaging and educating interested public regarding historic properties. If the public interpretation involves physical signage, installation will require agreements from the landowner accepting the sign(s) including responsibility for maintenance.

Completion of public interpretation as a Treatment Measure will be executed independent of the commitment to provide \$5,000 in educational investment included in the CRMP (2021).

5.9 Property Owner Requests

The Project may accommodate property owner requests, including privately and publicly held properties, which may exceed Project needs or requirements. If a property owner request accommodated by the Project escalates permitting, consultation, or Treatment Measure requirements, the subject property owner will assume responsibility for associated costs.

6 Archeological Monitoring Methodology

6.1 Objective

The objective of the archeological monitoring is to identify and document archeological deposits that may be encountered in areas that were previously inaccessible for archeological survey or not considered during the initial resource assessment, specifically in those areas outside of the originally permitted route. The monitoring methodology is established to create an efficient and streamlined notification process and means to determine the potential eligibility of resources for inclusion on the National Register, and for the creation and adoption of timely and effective mitigation strategies.

6.2 Monitoring

The Consulting Archeologist will observe the contractor's excavations within designated areas as indicated by station numbers in the Supplement CRMPs (Table 8). On the basis of such observations, the Consulting Archeologist may request a short-term cessation of work in the vicinity of a potential archeological site or find in order to record information or to evaluate exposed archeological deposits. The Consulting Archeologist may request the on-site supervisor for time to evaluate significant finds, deposits, or other archeological materials in an effort to assess their eligibility for the National Register.

The Consulting Archeologist may direct the Contractor's workers in the use of machinery on a limited basis to assist in the exposure of material of archeological importance. This assistance will comprise work which would otherwise be done without archeological involvement, but where archeological direction can ensure that significant material is not disturbed.

The Consulting Archeologist will inspect excavation areas, soil profiles, backdirt piles, and will collect artifacts and soil samples as appropriate. The Consulting Archeologist will map and document archeological deposits using field notes, photography, and measured scale drawings. The locations of archeological deposits will be mapped with a submeter GPS unit.

Archeological monitoring and associated site or find evaluation time will vary depending on the type of site or find encountered. Typical stop-work requests to complete archeological evaluation will be accommodated within one hour or less, often within fifteen minutes. Stop-work will be limited to an area within 50 feet of the potential archeological find; work may continue outside the area of the potential archeological find provided work occurs in an area not subject to archeological monitoring, or, if the work will occur in an area subject to archeological monitoring, provided that an additional archeologist is available to observe the work.

6.3 Notification

For archeological finds that may be National Register-eligible but cannot be adequately recorded during a short cessation of work (typically one hour or less per find) and cannot be otherwise avoided, the Consulting Archeologist will notify the on-site Supervisor and request a halt to construction activities near the find. The Consulting Archeologist shall notify the Project Preservation Officer (PPO), who shall in turn notify the NYSHPO, other stakeholders and Tribal Nations, as appropriate within 24 hours of the initial reporting of the finds, per the Certificate Conditions 110 and 111. During this time, work in the immediate vicinity of the find must halt and the area of concern fenced or otherwise protected from construction activities. Once the area is secured, activity adjacent to the find may continue during the consultation process. Per 36 CFR Part 800.13(b)(3), NYSHPO, other stakeholders and Tribal Nations will have 48 hours from the time of notification to respond.

6.4 Determination of Eligibility

The NYSHPO will make a determination of National Register eligibility for the archeological resource based on the information provided by the Archeological Monitor and PPO. The NYSHPO shall receive this information from electronic communications and respond within 48 hours, per 36 CFR Part 800.13(b)(3).

6.5 Determination of Effects, Mitigation Efforts and Dispute Resolution

It is expected that potential archeological finds will be located within a relatively narrow construction corridor with limited means for avoidance. When a site is determined eligible for inclusion on the National Register, avoidance is not possible, and continued construction requires disturbance of the site, the resulting Section 106 determination of effect will be Adverse Effect. Determinations of Adverse Effect require mitigation treatment to resolve; a separate Memorandum of Agreement will not be required when mitigation treatments contained within this document, or a CRMP associated with the area of the subject archeological site, is selected. Dispute resolution among the parties will be guided by the CRMP (2021).

6.6 Data Recovery Mitigation Strategy

Data recovery mitigation strategy will be outlined in a brief plan that provides guidance on the level of effort expected, square meters of excavation, sampling percentage, and number of anticipated feature excavations. The strategy will provide a schedule for the proposed recovery/documentation efforts, including options to expedite the process, which may include 10-hour working days and additional crew. The mitigation plan shall also include a protocol for artifact collection, processing, cataloging, analyses, and final curation of materials, as outlined in the CRMP (2021) Section 4.3. The data recovery plan will be provided to NYSHPO, Tribes, and other stakeholders prior to implementation; these parties will have up to 15 days to review and provide comment. Data Recovery can begin as soon as notification to proceed is provided from NYSHPO. The PPO will notify the NYSHPO, Tribes, and other stakeholders of the completion of the fieldwork and that portion of the project shall be cleared to resume construction.

6.7 Alternative Archeological Mitigation

Alternative archeological mitigation efforts that contemplate non-traditional excavation and or data recovery methods may be appropriate considering the circumstances. Numerous treatment methods may be selected including, but not limited to, off-site archeology, non-invasive archeology in the vicinity, and other appropriate strategies may also be considered. Factors that may influence such decisions include the Project's constraints (in terms of construction corridor width and depth), weather and soil conditions, hazardous work environments, other health and safety concerns, and Project schedule.

7 Communication

Through the many moving parts of this Project, efficient and immediate contact and consultation will be vital. The Project contacts are listed in the table below:

Table 7. Project Contacts.

Agency/Organization	Role	Contact person	Contact information
Kiewit Corporation	Project Preservation Officer	Ashley L. Bushey	Ashley.Bushey@Kiewit.com 802.349.6388
CHA Consulting, Inc.	Consulting Engineer	Chris Einstein	ceinstein@chacompanies.com 518.453.4505
U.S. Department of Energy	Stakeholder	Melissa Pauley	melissa.pauley@hq.doe.gov
U.S. Army Corps of Engineers	Stakeholder	Stephan Ryba	Stephan.a.ryba@usace.army.mil
New York State Historic Preservation Office (NYSHPO)	Stakeholder	Nancy Herter	Nancy.herter@parks.ny.gov 518.268.2179
New York DPS	Stakeholder	Matthew Smith	matthew.smith@dps.ny.gov
Hartgen Archeological Associates	Consulting Archeologist	Matthew Kirk	mkirk@hargen.com 518.283.0534 518.300.5940

Agency/Organization	Role	Contact person	Contact information
Transmission Developers Inc.	Applicants/Owner	Ayokunle "Kunle" Kafi, PE, CEM	Ayokunle.kafi@transmissiondevelopers.com 347.920.6550
Delaware Nation	Tribal Nation	Carissa Speck	(405) 247-2448, Ext. 1403 cspeck@delawarenation-nsn.gov
Delaware Tribe of Indians	Tribal Nation	Susan Bachor	610.761.7452 sbachor@delawaretribe.org
Shinnecock Nation	Tribal Nation	Jeremy Dennis	631.283.6143 adminoffice@shinnecock.org jeremynative@gmail.com
St. Regis Mohawk Tribe	Tribal Nation	Darren Bonaparte	518.358.2272, ext. 2163 darren.bonaparte@srmt-nsn.gov
Stockbridge-Munsee Community	Tribal Nation	Jeff Bendremer	413.884.6029 thpo@mohican-nsn.gov
National Park Service	Stakeholder	Kathy Schlegel	215.597.1726 kathy_schlegel@nps.gov
Advisory Council on Historic Preservation	Stakeholder	Stephanie Stevens	202.354.2102 stephanie_stephens@nps.gov

8 Deliverables

8.1 Periodic Updates

The PPO in coordination and under the guidance of the CA will provide periodic (bimonthly) updates on the progress of cable installation via email to the stakeholders. The communication will include project progress, discussion of unanticipated cultural resources, and the schedule for future work.

8.2 Annual Report

The CA will provide an annual report detailing the activities completed under the CRMP (2021) to the DOE and NYSHPO for as long as the CRMP is in effect. This report will be completed and submitted on or before January 10th each year. This report will include a summary of all historic properties and archeological resources encountered during construction and how they were treated. Post construction reports will identify which cultural resources were monitored and provide a summary of resource conditions and whether forms of disturbance were noted.

9 Summary of Recommended Effort

In Package 2 of Segment 3 a number of additional archeological field/monitoring efforts are recommended (Table 8). These include splice locations and HDD that fall outside of the permitted route. For the temporary off-site access roads, monitoring is recommended if grading is to occur. Finally, other activities outside of the permitted route not covered by the preceding activities are Excursions 5, 12, 14, and 15. The recommended archeological efforts are summarized in the bulleted list and the table below.

- Splices 63 and 64,
- HDD 20, 21, and 21A,
- And for the Deviation Areas/Excursions not covered in the above activities at S3-P2-4, S3-P2-5, S3-P2-7, S3-P2-12, and S3-P2-14.

Table 8. Resources and Archeological Recommendations in Package 2 of Segment 3, Fort Ann to Kingsbury.

Activity	Station	Conditions/Comments	Resources	Recommendation
Splice 63	20735+06	Splice and work area both outside permitted route.	Several NYSM Sites	Archeological testing or monitoring.
Splice 64	20778+17	Splice and work area both outside permitted route.	Several NYSM Sites	Archeological testing or monitoring.
HDD 20	20773+50 to 20749+80	Crossing NY SR 196, northern work areas outside permitted route. Southern work area also outside permitted route.	Several NYSM Sites	Archeological monitoring for southern work areas only.
HDD 21	20757+50 to 20777+50	Crosses wet areas/restricted areas. North work area only slightly outside permitted route. Southern work area well outside permitted route.	Several NYSM Sites	Archeological monitoring for southern work area only
HDD 21A	20779+00 to 20799+80	Crosses wet areas. Northern work area well outside permitted route. Southern work area only slightly outside permitted and appears disturbed.	Several NYSM Sites	Archeological monitoring for northern work areas only.
Access from NY Route 4	20357+00	Agricultural fields and rail trail crossing. Passes over filled Champlain canal prism.	Old Champlain Canal	No archeological work (if topsoil remains intact).
Access from CR 149	20419+00	Agricultural, also appears used as farm lane. Within National Register eligible Wright Farm Complex.	Several NYSM Sites and Wright Farm Complex	No archeological work (if topsoil remains intact). Property likely no longer NR eligible.
Access from CR 149, near O'Conner Lane	20446+00	To be placed north of existing farm lane.	Several NYSM Sites	No archeological work (if topsoil remains intact).
Access from Towpath Road	20512+00	Agricultural fields, and small wooded sections.	Several NYSM Sites	No archeological work. (if topsoil remains intact).
Access from Towpath Road	20576+00	Agricultural fields.	Several NYSM Sites	No archeological testing (if topsoil remains intact).
Access from Towpath Road	20674+00	Fallow fields.	Several NYSM Sites	No archeological work. (if topsoil remains intact).
Access from Towpath Road	20707+00	Agricultural fields.	Several NYSM Sites	No archeological work. (if topsoil remains intact).
Splice 64 Access Drive off Towpath Road	20747+00 and 20755+00	Except for northern portion, follows the Empire State Trail (formerly Towpath Lane), east side of old Champlain Canal.	Several NYSM Sites	No archeological work, except for northern portion in agricultural field (if grading is to occur).

Activity	Station	Conditions/Comments	Resources	Recommendation
S3-P2-5	20329+74 to 20332+00	HDD 14A and access road and parking area, appears level and undisturbed.	Several NYSM Sites	Testing or monitoring for parking area at end of access road.*
S3-P2-7	20388+74 to 20449+00	Cable installation and parallel access road.	Several NYSM Sites	Testing or monitoring for parallel access road if to be graded. Also, for parking areas at 20420+00 and 20425+50.*
S3-P2-12	20647+88 to 20656+16	HDD 18 and parallel access road. Level and undisturbed.	Several NYSM Sites	Testing or monitoring parking area at 20656+00.*
S3-P2-14	20733+00 to 20801+71	HDD 20, Splice 63, and parallel access road. Level and undisturbed.	Several NYSM Sites	Testing or monitoring parking areas at 20733+60 and 20778+50.*

* The area may be shovel-tested by a qualified archeologist prior to construction or monitored by a qualified archeologist during construction, see Sections 2.2 and 6, respectively.

10 Bibliography

New York Archaeological Council (NYAC)

- 1994 *Standards for Cultural Resource Investigations and the Curation of Archaeological Collections in New York State*. NYAC, n.p.

TRC

- 2021 Champlain Hudson Power Express HVDC Transmission Line Project, Cultural Resources Management Plan (Final), on file at OPRHP, Peebles Island, New York.

**Appendix 1: Champlain Hudson Power Express Cultural Resources Management Plan
(TRC 2021)**

THIS DOCUMENT IS CONSIDERED PRIVILEGED AND CONFIDENTIAL AND NOT INCLUDED

Appendix 2: SHPO Human Remains Protocol 2021

**State Historic Preservation Office/
New York State Office of Parks, Recreation and Historic Preservation
Human Remains Discovery Protocol
(January 2021)**

If human remains are encountered during construction or archaeological investigations, the New York State Historic Preservation Office (SHPO) recommends that the following protocol is implemented.

- Human remains shall be treated with dignity and respect. Should human remains or suspected human remains be encountered, work in the general area of the discovery shall stop immediately and the location shall be secured and protected from damage and disturbance.
- If skeletal remains are identified and the archaeologist is not able to conclusively determine if they are human, the remains and any associated materials shall be left in place. A qualified forensic anthropologist, bioarchaeologist or physical anthropologist shall assess the remains in situ to help determine if they are human.
- If the remains are determined to be human, law enforcement, the SHPO, the appropriate Indian Nations, and the involved state and federal agencies shall be notified immediately. If law enforcement determines that the burial site is not a criminal matter, no skeletal remains or associated materials shall be removed until appropriate consultation takes place.
- If human remains are determined to be Native American, they shall be left in place and protected from further disturbance until a plan for their avoidance or removal is developed. Please note that avoidance is the preferred option of the SHPO and the Indian Nations. The involved agency shall consult SHPO and the appropriate Indian Nations to develop a plan of action. Photographs of Native American human remains and associated materials should not be taken without consulting with the involved Indian Nations.
- If human remains are determined to be non-Native American, the remains shall be left in place and protected from further disturbance until a plan for their avoidance or removal is developed. Please note that avoidance is the preferred option of the SHPO. The involved agency shall consult SHPO and other appropriate parties to develop a plan of action.
- The SHPO recommends that burial information is not released to the public to protect burial sites from possible looting.