



**Independent Archaeological Consulting, LLC**  
**34 Dover Point Road, Suite 300 Dover, NH 03820**  
**WMNF Permit Application Attachments**  
**(ARPA Application Fields 11 a-e)**  
**Phase IB Intensive Archaeological Investigation**  
**13 Archaeologically Sensitive Areas**  
**Easton, Lincoln and Woodstock, New Hampshire**  
**April 13, 2023**

As part of the Eversource X178 Transmission Line Rebuild Project, IAC proposes to conduct Phase IB Intensive Archaeological Investigations at 13 previously defined archaeologically sensitive areas or *SAs* along the X178 transmission corridor within the White Mountain National Forest (WMNF), with *SAs* located in Easton, Lincoln and Woodstock (Grafton County), New Hampshire as shown in Table 1 and on the attached project plans.

Table 1. The 13 *SAs* along the X178 corridor located in WMNF.

#	SA	Size (acres)	Pre-C	Post-C	Town	UTM Northing	UTM Easting
(b)(3):16 USC 470hh							

(b)(3):16 USC 470hh

IAC will conduct the Phase IB investigation according to the standards set forth by NHDHR and the National Historic Preservation Act of 1966 as amended. Principal Investigators Jacob Tumelaire and Jessica Cofelice will design the testing strategy and be present in the field to direct the Phase IB testing. Archaeologists will complete the survey work in accordance with the Secretary of the Interior's Standards and Guidelines for Archaeology and Historic Preservation (48 FR 44716, September 29, 1993).

We propose the excavation of 0.5-m-x-0.5-m shovel test pits (STPs) distributed across the ROW within each SA to achieve the survey goals described above. STPs will be located at 8-m intervals and excavated according to natural and cultural strata, and in arbitrary 10-cm levels where layers exceeded 10 cm in thickness. Archaeologists will screen displaced soils through 1/4-inch hardware mesh and place artifacts in sealed plastic bags labeled with their horizontal and vertical provenience. If necessary, crewmembers will use a bucket auger to extend the maximum depth of excavation to test for deeply buried occupation horizons below fill deposits or past the OSHA-approved maximum excavation depth. In addition, archaeologists will excavate the full extent of any cultural features encountered during the survey. IAC staff will record the exposed soil stratigraphy with detailed profiles including soil color, compaction and composition, and supplement the written data with digital photography. Archaeologists will use a combination of hand-drawn maps and spatial data collected with a Trimble Geo7X® handheld data collector with sub-meter accuracy to generate scaled site plans showing testhole locations, landscape features, surface vegetation and changes in topography. Finally, crewmembers will document the project area with digital photography for views of setting, topography, and vegetation. Collected artifacts and documentation will be transported to IAC's archaeology laboratory in Dover, New Hampshire, for processing and analysis. Technicians will clean, identify, and catalog artifacts using a Microsoft Access® Database. Mr. Tumelaire and Ms. Cofelice will provide expertise for the analysis of Native American and Euroamerican cultural material as needed.

IAC will retain possession of any artifacts collected from WMNF only for the duration required to process, catalog and analyze the cultural material for inclusion in the archaeological survey report. NHDHR's 2020 curation guidelines included stringent artifact preparation and curation standards. Unless otherwise indicated, IAC will prepare and package artifacts, complete required forms, and compile fieldnotes per the NHDHR guidelines. Once the final report is complete and accepted by reviewing agencies, IAC will return the artifacts to WMNF.

IAC is a woman-owned small business that has operated as a Limited Liability Company (LLC) since 1998 and maintains a fully-equipped archaeology lab in Dover, New Hampshire. Having worked closely with design engineers and other agencies on many park and campground projects, IAC is adept at finding workable solutions to possible design constraints while at the same time protecting the archaeological resource. IAC is a member-in-good-standing of the American Cultural Resources Association (ACRA) and has key personnel on the Maine Historic Preservation Commission (MHPC) approved Level 2 Pre-Contact (Prehistoric) Archaeologist and Level 2 Historic Archaeologist lists.

- **Jessica Cofelice, MA, RPA** (University of Southern Maine 2013) has been with IAC since 2009. Now serving as Director and Co-Owner of IAC, Ms. Cofelice is on Maine's Level 2 Historical Archaeologists Approved List and is permitted to conduct all phases of archaeological investigation in Maine. She has worked on a broad range of projects throughout New England, carrying out fieldwork, conducting analysis, and producing professional technical reports. Ms. Cofelice is especially well versed in funerary archaeology and all things related to Post-Contact (historic) burials.

- **Jacob Tumelaire, MA, RPA** (University of Northern Arizona 2014) came to IAC in 2007 and now serves as Director, Co-Owner and Principal Investigator for Pre-Contact (Prehistoric) archaeology. Mr. Tumelaire is on the MHPC Level 2 Prehistoric Archaeologists Approved List and therefore permitted to conduct all phases of archaeological survey in the state. He designs, implements and supervises archaeological surveys throughout New Hampshire, Vermont and Maine, directing the work from background research, to fieldwork, to completion of a final report. Mr. Tumelaire's area of interest is the study of Pre-Contact Native American culture from all time periods, with proficiency in the analysis of lithic and ceramic artifacts.

IAC's archaeology lab provides a facility fully equipped to perform all research, field, lab and report tasks. We currently retain several full-time employees with a range of skills that allow IAC to deliver ethical, high-quality professional archaeological services in a world of ever-developing technology. We are able to conduct in-house tasks that include artifact processing and storage, macroscopic and microscopic artifact analysis, high-resolution artifact photography and flotation or soil sample processing. IAC's in-house capabilities also include a variety of software to record, manage and analyze data as well as present the investigation results in text, tables, maps and other graphics, and high-quality photos. IAC uses ArcGIS® 10.3.1 to generate shapefiles or other GIS deliverables, formatted to client-specific standards, as well as all GIS deliverables required by NHDHR.

IAC's owners and Directors will serve as Principal Investigators for the project, with Mr. Jacob Tumelaire as the PI for Pre-Contact archaeology and Ms. Cofelice as the PI for Post-Contact archaeology. A PI will be present in the field to direct the fieldwork at all times. Additional IAC staff present during the work is likely to include Project Archaeologist Shannon Mascarenhas, Field Supervisor Roxanne Pendleton and Archaeological Technicians Jeff Baron, Leslie Fitzpatrick and Audrey Waterman among others.

IAC has completed hundreds of complex archaeological investigations in Northern New England. These include Phase IA Archaeological Sensitivity Assessments and Desktop Surveys, Phase IB Intensive Archaeological Investigations, Phase II Site Evaluations and Determinations of Eligibility, and Phase III Mitigation surveys. We offer the project summary below as an example of previous archaeological survey within WMNF:

**Culhane Farmstead Phase III Mitigation** (2013) – IAC conducted a Phase III Mitigation survey at the Culhane Farmstead site (27-CO-2033), within the footprint of the Dolly Copp Campground in WMNF. The WMNF proposed to improve camping conditions at the campground by widening roads and adding new campsites, and the farmstead site has been incorporated into the campground as Campsite #51 complete with a parking area, camping platform and fire pit. The Culhane farmstead stood on both sides of historic Pinkham Road, with the main house complex on the west side and a large barn on the east side. IAC excavated 24 1-m-x-1-m test units (TUs), two 0.5-m-x-1.0-m excavation units (EUs), and one bucket auger as part of the Phase III testing. IAC collected 4,568 Euroamerican artifacts and identified multiple structural components along with cultural deposits from a half century of occupation. The site's integrity distinguishes the farmstead as eligible for the NRHP listing under Criterion D. The Culhane farmstead could help answer questions about 19<sup>th</sup>-century households in the mountainous region of Coos County.



Historic photo of the Culhane Farmstead.

If you have any questions about the IAC or its capability to conduct all necessary project tasks, please do not hesitate to contact Jacob Tumelaire at [jtumelaire@iac-llc.net](mailto:jtumelaire@iac-llc.net) or Jessica Cofelice at [jcofelice@iac-llc.net](mailto:jcofelice@iac-llc.net) or by phone at 603-430-2970.



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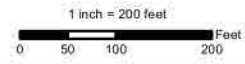
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NO.	DATE	REVISIONS

**EVERSOURCE ENERGY**

**X178 Transmission Line Rebuild Project**  
**Central Segment Str 170-401**

Woodstock, NH	MAP SHEET
Date: November, 2022	
<b>1 OF 25</b>	

Withheld pursuant to exemption

(b)(3)-16 USC 470hh

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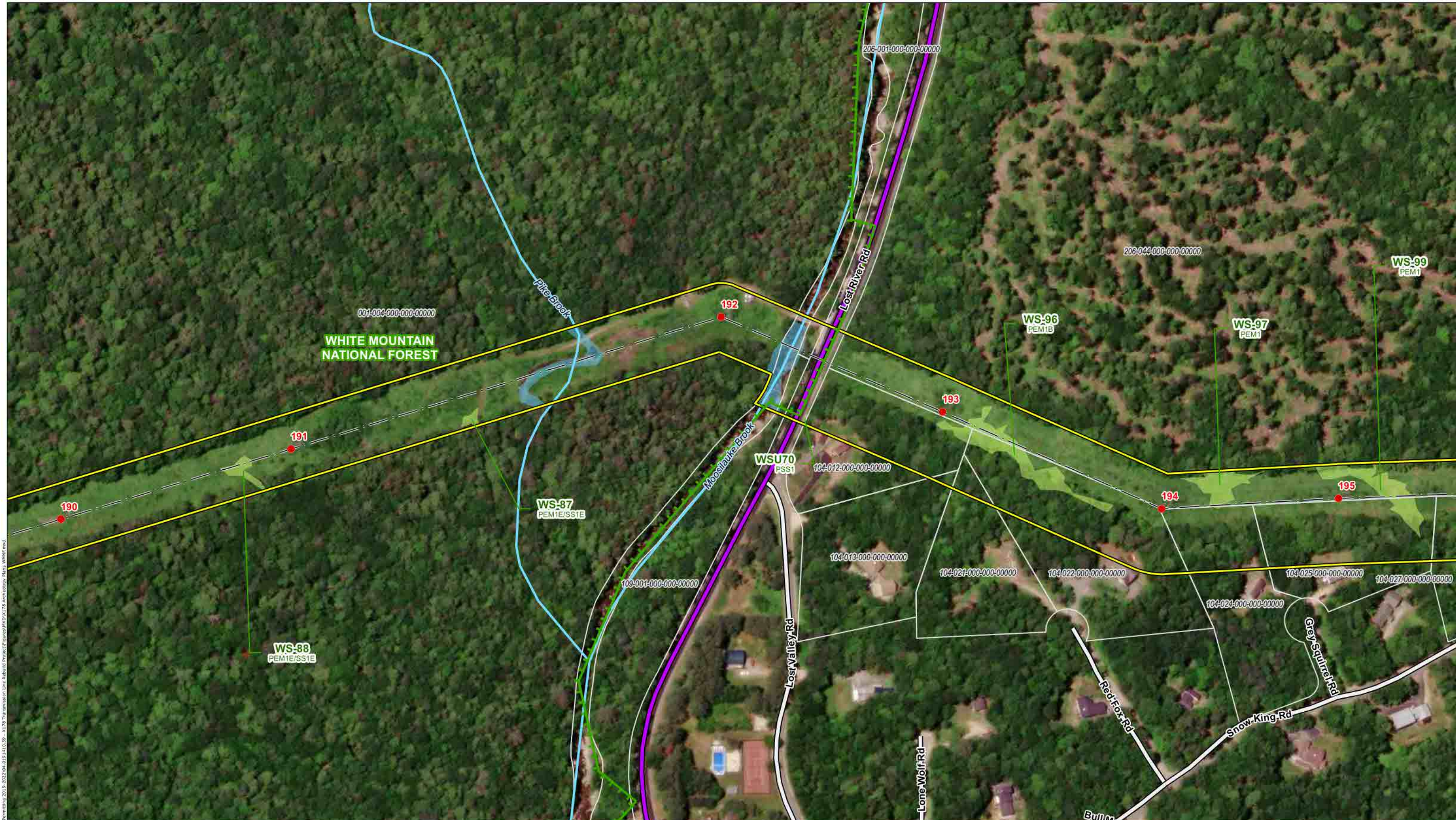
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1 inch = 200 feet  
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**X178 Transmission Line Rebuild Project**  
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**X178 Transmission Line  
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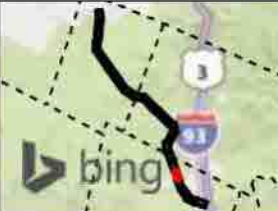
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**INDEX MAP**



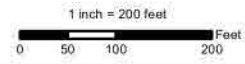
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**EVERSOURCE ENERGY**

**X178 Transmission Line Rebuild Project**

**Central Segment Str 170-401**

Woodstock, NH	MAP SHEET
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Withheld pursuant to exemption

(b)(3)-16 USC 470hh

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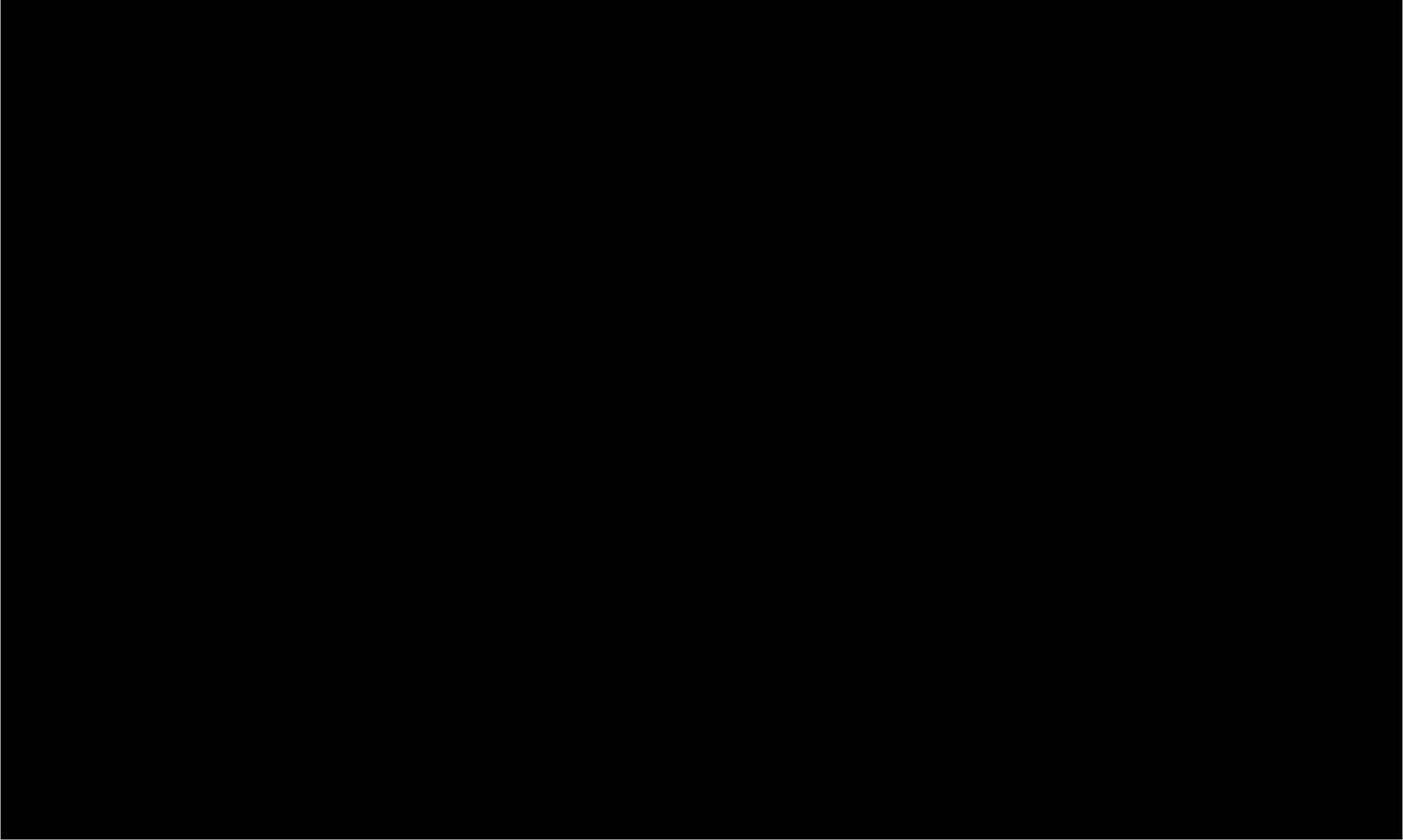
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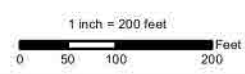
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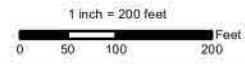
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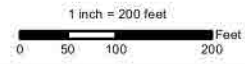
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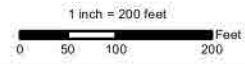
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Lincoln, NH	MAP SHEET
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Easton, NH      MAP SHEET

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**21 OF 25**

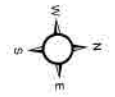


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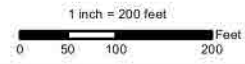
**INDEX MAP**



- |  |   |  |
|--|---|--|
| <ul style="list-style-type: none"> <li>● EXISTING STRUCTURE - NO WORK</li> <li>● STRUCTURE TO BE REPLACED</li> <li>— EXISTING TRANSMISSION LNE</li> <li>◻ WHITE MOUNTAIN NATIONAL FOREST BOUNDARY</li> <li>◻ CONFIRMED VERNAL POOL</li> <li>◻ STREAM POLYGON</li> <li>◻ WETLAND</li> <li>— APPROXIMATE ROW</li> <li>— NHD FLOWLINES</li> </ul> | <ul style="list-style-type: none"> <li>— TOWN MAINTAINED ROAD</li> <li>— NHDOT ROAD</li> <li>— FEDERAL ROAD</li> <li>— PRIVATE ROAD</li> <li>— TOWN BOUNDARY</li> <li>— ARCHAEOLOGICAL SITE BOUNDARY</li> <li>— STONEWALL</li> <li>— ARCHAEOLOGICAL SENSITIVITY AREA</li> </ul> | <ul style="list-style-type: none"> <li>— PARCEL BOUNDARY</li> <li>— EVERSOURCE OWNED PARCEL</li> <li>— STATE OWNED PARCEL</li> </ul> |
|--|---|--|



*This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.*



		<b>EVERSOURCE ENERGY</b>	
		<b>X178 Transmission Line Rebuild Project</b>	
		<b>Central Segment Str 170-401</b>	
		Easton, NH	MAP SHEET
		Date: November, 2022	
			<b>22 OF 25</b>
NO.	DATE	REVISIONS	

Withheld pursuant to exemption

(b)(3)-16 USC 470hh

of the Freedom of Information and Privacy Act

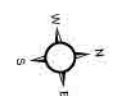


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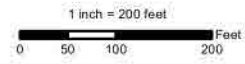
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<b>EVERSOURCE ENERGY</b>		
<b>X178 Transmission Line Rebuild Project</b>		
<b>Central Segment Str 170-401</b>		
Easton, NH		MAP SHEET
Date: November, 2022		<b>24 OF 25</b>
NO.	DATE	REVISIONS



- EXISTING STRUCTURE - NO WORK
- STRUCTURE TO BE REPLACED
- EXISTING TRANSMISSION LNE
- WHITE MOUNTAIN NATIONAL FOREST BOUNDARY
- CONFIRMED VERNAL POOL
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1 inch = 200 feet

0 50 100 200 Feet

NO.	DATE	REVISIONS

**EVSOURCE**  
ENERGY

**X178 Transmission Line  
Rebuild Project  
Central Segment Str 170-401**

Easton, NH	MAP SHEET
Date: November, 2022	<b>25 OF 25</b>

Path: P:\06065\0191\06065\0191\11.01.00 - EE Siting Permits\0191 - 002\04\0191\410.39 - X178 Transmission Line\Rebuild Project\06065\0191\06065 Plans\06065 Plans\06065.mxd

**Jacob D. Tumelaire**  
Director & Principal Investigator  
**Independent Archaeological Consulting, LLC**  
34 Dover Point Road, Suite 300, Dover, New Hampshire 03820  
603-430-2970    jtumelaire@iac-llc.net



### **Education**

- 2014    M.A., Anthropology (Archaeological emphasis), Northern Arizona University, Flagstaff, AZ. Notable Courses/Coursework Completed: Ceramic Analysis, Lithic Analysis, GIS. Master's Thesis: *Research at the Rainbow Forest: An Investigation of PaleoAmerican Activity in Eastern Arizona.*
- 2005    B.A., Anthropology, Northern Arizona University, Flagstaff, AZ. *Minor, History*

### **Certification**

Meets Secretary of Interior 36-CFR-61 Standards for Archaeologists;  
Member of RPA (Register of Professional Archaeologists); Approved for all levels of archaeological investigation in New Hampshire and Vermont. Listed on Level 2 Prehistoric Archaeologist Approved List, Maine Historic Preservation Commission.

### **Experience and Expertise**

As Principal Investigator, Mr. Tumelaire supervises all phases of archaeological investigation (research, survey, site identification, preparation and excavation). His position requires accurate site map creation and digital conversion, artifact analysis and data interpretation/manipulation utilizing various software programs. Additional duties include writing, review and final publication of archaeological reports. He specializes in Pre-Contact Native American archaeology and is well-versed in Post-Contact Euroamerican archaeological resources. Jacob has extensive experience with GPS navigation, processing and software as well as GIS technology. From 2016-present, Jake has implemented, analyzed and prepared formal reports for Phase IA, Phase IB, Phase II and Phase III efforts for 20-plus Eversource projects across New Hampshire, with over 20 newly documented Pre-Contact archaeological sites identified. Reports submitted to various environmental consulting firms in New Hampshire.

### **Selected Publications and Technical Reports**

- 2022    *Phase IA Archaeological Sensitivity Assessment and Phase IB Intensive Archaeological Investigation, Eversource 393 Distribution Line Structure Replacement Project ESNH-2021-034, Manchester (Hillsborough County), New Hampshire.* Report submitted to GZA Geonvironmental, Bedford, NH.
- 2022    *Phase IA Archaeological Sensitivity Assessment, Phase IB Intensive Archaeological Investigation and Targeted Data Recovery, Eversource 316 Line Structure Replacement Project ESNH-2021-038, Sunapee (Sullivan County), New Hampshire.* Report submitted to GZA Geonvironmental, Bedford, NH.
- 2021    *Eversource 391 Transmission Line Structure Replacement Project ESNH-2021-012 Phase IB Intensive Archaeological Investigation, Rochester (Strafford County), New Hampshire.* Report submitted to GZA Geonvironmental, Bedford, NH.
- 2021    *Phase IB Intensive Archaeological Investigation Eversource W179 Transmission Line Asset and Fiber Project ESNH-2020-025, Berlin, Milan and Dummer (Coos County), New Hampshire.* Report submitted to GZA Geonvironmental, Bedford, NH.
- 2021    *Eversource 379 Transmission Line Structure Replacement Project ESNH-2020-018 Phase IB Intensive Archaeological Investigation, Winchester, Richmond and Troy (Cheshire County), New Hampshire.* Report submitted to GZA Geonvironmental, Bedford, NH.



## Jessica A. Cofelice, MA, RPA

Director/Principal Investigator

**Independent Archaeological Consulting, LLC**  
34 Dover Point Road., Suite 300, Dover, NH 03820  
603 430-2970 [jcofelice@iac-llc.net](mailto:jcofelice@iac-llc.net)

Ms. Cofelice manages and supervises archaeological field projects and authors or co-authors comprehensive reports suitable for submission to State Historic Preservation Offices as part of the Section 106 process. She makes significant contributions to the overall project by performing background research, in-depth artifact analysis and site interpretation and recommendations.

### Education

- 2013 MA American & New England Studies, University of Southern Maine. Thesis “The Shift in Nineteenth Century Funerary Hardware Consumer Consumption Patterns. A Case Study: Legro Family Burial Ground, Rochester, New Hampshire.”
- 2000 BS Anthropology/Archaeology, Mercyhurst University, Erie, Pennsylvania
- 1996 R.W. Traip Academy, Kittery, Maine

**Memberships** Society for Historic Archaeology (SHA), Council for Northeast Historical Archaeology (CNEHA)

**Certifications** Meets Secretary of Interior 36-DFR-61 Standards for Archaeologists; Member, Register of Professional Archaeologists (RPA); New Hampshire Division of Historical Resources Approved Archaeologist; Listed, Maine Level 2 Historical Archaeologist; 40-hour HAZWOPER trained

### Selected Publications and Technical Reports

- 2020 *Phase IB Intensive Archaeological Investigation Eversource Y138 Line Asset Condition Refurbishment Project ESNH-2019-038 Tamworth, Madison and Conway (Carroll County), New Hampshire.* Report submitted to Vanasse Hangen Brustlin, Inc., Bedford New Hampshire.
- 2020 *Phase IA Archaeological Sensitivity Assessment and Phase IB Intensive Archaeological Investigation NHDOT 27712: US Route 202 Bridge (NHDOT Bridge No. 108/116) Rehabilitation or Replacement Peterborough (Hillsborough County), New Hampshire.* Report submitted to Hoyle, Tanner & Associates, Inc., Manchester, New Hampshire.
- 2019 *Phase IA Archaeological Sensitivity Assessment and Phase IB Intensive Archaeological Investigation Eversource G128/C129 Structure Replacement Project Rochester, Barrington, Lee, Durham and Madbury (Strafford County), New Hampshire.* Report submitted to Stantec Consulting Services, Inc., Topsham Maine.
- 2019 *Phase IA Archaeological Sensitivity Assessment Phase IB Intensive Archaeological Investigation and Phase II Determinations of Eligibility NHDOT 13761 F.E. Everett Turnpike Widening) Exit 8 to I-293) – Part A (Nashua-Merrimack-Bedford 13761) Nashua, Merrimack and Bedford (Hillsborough County), New Hampshire.* Report submitted to CHA Consulting, Inc., Keene New Hampshire.
- 2018 *Strafford Square Intersection Improvements Rochester X-A000 (320) NHDOT 14350 Alternative Mitigation Report the Wentworth Homestead (27-ST-113) Rochester (Strafford County), New Hampshire.* Report submitted to Stantec Consulting Services, Bedford, New Hampshire.
- 2017 *Phase IA Archaeological Sensitivity Assessment and Phase IB Intensive Archaeological Investigation; Eversource G192 Right-of-Way Nashua and Hudson (Hillsborough County) New Hampshire.* Report submitted to Normandeau Associates, Inc., Bedford New Hampshire.
- 2013 *Culhane Farmstead (27-CO-2033) Phase III Mitigation, White Mountain National Forest: Dolly Copp Campground, Martins Location (Coos County), New Hampshire.* Report submitted to Sarah Jordan, WMNF Contracting Officer Representative.