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5 Commerce Park North
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www.gza.com



November 12, 2024
File No. 04.0191410.39

Town of Easton
Planning Board
Attn: Ned Cutler, Chair
1060 Easton Valley Road
Easton, New Hampshire 03580

Re: Revised Wetlands Conditional Use Permit Application
Eversource Energy
X178-2 Transmission Line Structure Rebuild & OPWG Project
Easton, New Hampshire

Dear Chair Cutler:

This letter transmits a revised Wetlands Conditional Use Permit Application on behalf of Public Service Company of New Hampshire doing business as Eversource Energy (Eversource) for the X178-2 Transmission Line Structure Rebuild and Optical Ground Wire (OPGW) Project (see attached **Figures 1-Locus Plan, 2-Access and Permitting Plans, 3-Tax Map, 4- NRCS Soils Plans**). On behalf of Eversource, GZA GeoEnvironmental, Inc. (GZA) is requesting consideration of a Wetlands Conditional Use Permit Application for proposed structure replacements and OPGW installation within the existing and maintained X178-2 Transmission Line Right-of-Way (ROW). This submittal was prepared based on guidance from the Town of Easton on November 15, 2023, during a Planning Board meeting on July 10, 2024 as part of conceptual review, and on follow-up e-mail correspondence during September and October 2024. As requested by the Town, Phase 1 and Phase 2 of the project have been combined into one submittal. GZA has prepared a separate Steep Slope Conditional Use Permit application related to the proposed work that are submitted concurrently with this application. Variance requests related to the work were prepared by McLane Middleton Law and are being submitted concurrently to the Zoning Board of Adjustment.

The proposed project begins at the Woodstock Substation in Woodstock and continues northwesterly for approximately 21 miles to the Streeter Pond Tap in Sugar Hill (Site). In Easton, the Site begins just south of Easton Valley Road accounting for proposed work areas at proposed Structure 292, and continues northerly for approximately 4.19 miles to the Easton and Sugar Hill Town Boundary, crossing through primarily rural residentially owned properties. This submittal excludes White Mountain National Forest (WMNF) areas, as previously directed by the Easton Planning Board. Separate permitting is underway with the WMNF for these areas. The Rebuild Project includes the replacement of 106 existing utility structures (i.e. utility poles) within portions of the Towns of Woodstock, Sugar Hill and Easton, (i.e. Site). Within the Town of Easton, there are 41 utility structures and associated work pads that are proposed to be replaced, and five additional work pads for structures located in the WMNF.

Replacement of the structures before significant deterioration to crossarms or the structure itself is of the utmost importance in regard to maintaining service and ensuring safety of the public. Therefore, the X178-2 rebuild is beneficial to public health and safety. The X178-2 Transmission Line was originally built in 1969 and additional portions were built in 1985. During an inspection of the X178-2



Transmission Line, it was observed that the structures are old and worn and have been subjected to pole splitting, woodpecker damage and rot, and must be replaced due to the state of deterioration of these structures over the past 55 and 39 years. In the Town of Easton, Eversource is proposing to replace 31 existing utility structures. The existing wooden H-frame structures will be replaced with weathering steel equivalent H-frame structures.

GZA confirmed wetland boundaries, classified wetlands, photographed resources, and recorded data relevant to functions and values December 8, 13, and 14, 2022, and May 9 and 10, 2023. The wetland delineation was conducted in accordance with the United States Army Corps of Engineers (USACE) Wetlands Delineation Manual using the Routine Determinations Method and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual as required by the NH Department of Environmental Services (NHDES) Wetlands Bureau and the USACE. As directed by NHDES, the approximate boundaries of soils mapped as histosols and/or histic epipedon soils have been included on project plans and are referred to as very poorly drained soils (VPD).

GZA and Eversource worked closely to review the structure locations and construction access during the design of the project to minimize impacts in the Wetlands Conservation Overlay District to the greatest extent. Temporary access is sited in locations overlapping upland habitat where possible to limit temporary wetland disturbance. Within Easton, existing structure heights above ground range from 44.6-ft to 56.5-ft. Proposed structures will be on average 10.9 ft taller than existing structures to comply with updated National Electrical Safety Code standards.

In the Town of Easton, the proposed project requires approximately 248,167 sq. ft. of temporary wetland impact and 750 square feet of permanent wetland impact to predominantly palustrine scrub shrub and emergent wetlands (PSS/EM1E) located within the existing maintained utility right-of-way (ROW) for construction access, temporary work pad placement, and structure replacement. Work will be conducted in accordance with the New Hampshire Department of Environmental Services (NHDES) Best Management Practices Manual for Utilities in and Adjacent to Wetlands and Waterbodies (March 2019). Prior to the placement of timber matting within wetlands, timber mats will be inspected to ensure cleanliness to prevent the spread of invasive plant species. Upon completion of work, timber matting will be removed, and temporarily impacted wetlands will be stabilized with straw and will be restored using a native herbaceous seed mix, as necessary. A NHDES Wetlands Standard Dredge and Fill permit (SDF) will be submitted for proposed wetland impacts in the Town of Easton.

Where access and work pads are proposed within uplands, Eversource is proposing to construct/improve access routes and work pads by grading and adding stone where necessary to limit and prevent erosion and sedimentation. The stone/gravel access routes are approximately 16 ft in width and are proposed to remain in place after construction and will be utilized for future maintenance work as well as to provide stable access to structures in the event of an emergency. During construction, Eversource will utilize up to an approximate 100 ft by 100-ft temporary work pad area. Upon completion of structure replacement work, stone/gravel work pads will be reduced in size to the extent necessary for bucket truck access, to approximately a 30-ft by 60-ft area. A NHDES Alteration of Terrain (AoT) application has been submitted and approved for proposed access route and work pad grading in uplands. As part of the proposed project, grading for access and work pads includes approximately 47,810 sq. ft. of wetland buffer impact.

Impact Type	Impact Amount (sq. ft.)
Temporary Wetland Impact	248,167
Wetland Buffer Impact	47,810

Prior to the start of construction, a Stormwater Pollution Prevention Plan (SWPPP) will be prepared, and a Notice of Intent (NOI) will be submitted in accordance with the 2022 EPA Construction General Permit (CGP). Consistent



with the requirements of the 2022 CGP, qualified inspectors will conduct routine erosion and sediment control inspections through the duration of construction and will monitor vegetation regrowth progress during restoration.

In accordance with Article 9, Section 901.I.2 of the Easton Zoning Ordinance, a Conditional Use Permit may be issued by the Planning Board for the construction, repair, or maintenance of streets, roads, and other access ways, including utility right-of-way easements including power lines and pipe lines, if essential to the productive use of land adjacent to the Wetlands Conservation Overlay District, and the following conditions are met:

- A. ***The proposed activity minimizes the degradation to, or loss of, wetlands and wetland buffers, and compensates for any adverse impact to the functions and values of wetlands and wetland buffers, including but not limited to the capacity of the wetland to: support fish and wildlife, prevent flooding, supply and protect surface and ground waters, control sediment, control pollution, support wetland vegetation, promote public health and safety, and moderate fluctuations in surface water levels.*** The majority of the proposed impacts to wetlands will be temporary for access and work pad placement and minimized by using upland access routes when possible. Permanent impacts are limited to the footprint of replacement structures which are constrained to proposed locations due to required span lengths between structures. The proposed project minimizes adverse impact to the wetland by utilizing timber matting in wetland areas in order to prevent and minimize rutting and compaction in the wetland. Erosion controls will be installed to further minimize and prevent impacts to the surrounding wetland.

GZA recorded data relevant to functions and values provided by these natural resources along the entirety of the ROW in November and December 2022 and May 2023. GZA classified wetlands in accordance with the "Classification of Wetlands and Deepwater Habitats of United States" (Federal Geographic Committee, 2013). GZA completed a wetland function-value assessment in accordance with the Highway Methodology. Wetlands in the ROW primarily consist of palustrine emergent (PEM) or palustrine scrub-shrub (PSS) systems that are seasonally saturated. Vegetation in the wetlands were dominated predominantly by cinnamon fern (*Osmundastrum cinnamomeum*), sensitive fern (*Onoclea sensibilis*), Canada rush (*Juncus canadensis*), steeplebush (*Spiraea tomentosa*), meadowsweet (*Spiraea alba*), goldenrod (*Solidago spp.*), red maple (*Acer rubrum*), balsam fir (*Abies balsamea*), reed canary grass (*Phalaris arundinacea*), and gray birch (*Betula populifolia*). Other species present in the herbaceous layer include marsh fern, hayscented fern, interrupted fern, bracken fern, fringed sedge, cotton sedge, rattlesnake grass, soft rush, broad leaf cattail (*Typha latifolia*). Bristly blackberry (*Rubus hispidus*). and sphagnum moss (*Sphagnum spp.*). Additional species observed in the shrub/sapling layers included white pine (*Pinus strobus*) and yellow birch (*Betula alleghaniensis*). Gray birch (*Betula populifolia*) and red spruce (*Picea rubens*) were also observed in the tree layer bordering the ROW.

Based on the assessment, greater than half the wetlands in the ROW in Easton provide groundwater recharge/discharge, flood flow alteration, nutrient removal, and production export as capable wetland functions. In addition, greater than half the wetlands in the ROW in Easton provide sediment/toxicant retention and wildlife habitat as a principal wetland function. The project has been designed to avoid impacts to the greatest extent (see **Wetland Function and Value Assessment Forms**).

Wetland Identification	Classification	Functions/Values (2)													
		GW	FA	FH	STR	NR	PE	SS	WH	RE	ES	UH	VQ	ESH	
ET-31	PSS2/4/EM1Fg/R2UB	P	P	P	P	P	P	P	P	X	X	P	P	P	
ET-33	PSS1/4/EM1E	X	X		X	X	X		P	X	X				
ET-34	PSS/EM1E/R3UBb	X	P	X	P	P	P	X	P	X	X			P	
ET-36.1	PSS/EM1E	X	X		X	X	X		P	X	X				



Wetland Identification	Classification	Functions/Values (2)													
		GW	FA	FH	STR	NR	PE	SS	WH	RE	ES	UH	VQ	ESH	
ET-37	PSS2/4/EM1Fg	X	X		P	P	P		P	X	X				
ET-39	PSS/EM1E	X	X		X	X	X		P	X	X				
ET-52	PEM/SS1/4Fb/R2UB	X	P	X	P	P	P	X	P	X	X			P	
ET-53	PEM/SS1E	X	X		X	X	X		X						
ET-54	PEM/SS1E	X	X		X	X	X		X						
ET-55	PSS1/4/EM1/FO1/4E	X	X		P	X	X		P						
ET-56	PSS1/EM1/FO1/4E	X	X		P	X	X		P						
ET-58	PSS/EM1E	X	X		X	X	X		X						
ET-62	PSS1/EM1/FO1/4E	X	X		P	X	X		P						
ET-64	PEM1/SS1/FO1/4E	X	X		P	X	X		P						
ET-65	PSS/EM1E, PFO1/4E	X			P	X	X		P						
ET-67	PSS/EM1E	X			P	X	X		X						
ET-68	PSS/EM1E/Fg/R4SB1, PFO1/4E/Fg	X	X	X	P	P	X	X	P				X		
ET-72	PSS/EM1E/Fg, PFO1/4E/Fg	X	X		P	P	X		P						
ET-72.1	PSS/EM1E	X	X		X	X	X		X						
ET-76	PSS/EM1E	X	X		X	X	X		X						
ET-77	PSS/EM1E	X	X		X	X	X		X						
ET-83	PSS/EM/FO1E	X	X		P	X	X		P						
ET-83.1	PSS/EM/FO1E/R4SB5	X	X	X	P	X	X	X	P				X		
ET-86	PSS/PEM1E, PFO1E	X	X		P	X	X		P						
ET-86.1	PEM/PSS1E	X	X		X	X	X		X						

Key to functions and values:

GW = groundwater recharge/discharge

RE = recreation

STR = sediment/toxicant retention

VQ = visual quality/aesthetics

ESH = endangered/threatened species habitat

WH = wildlife habitat

FH = fish and shellfish habitat

UH = uniqueness/heritage

PE = production export (nutrient)

SS = sediment/shoreline stabilization

FA = floodflow alteration

ES = educational/scientific value

NR = nutrient removal

Key to function/value occurrence symbols:

Blank space = function/value is not occurring in this system

X = system is capable of performing this function/value though it is not considered principal

P = function/value is occurring in this system and is considered a principal function/value

The proposed project is within an existing and routinely maintained ROW, and it is not anticipated that the proposed project will have long term impacts to the functions and values of these wetlands located within the ROW. The proposed impacts are temporary to wetlands and will be restored following construction. It is anticipated that wetlands will continue to support the same principal and capable functions and values following completion of construction and restoration.

Eversource will retain a qualified environmental consultant to complete regular erosion control inspections during construction and provide guidance to the contractor to maintain compliance with local, State, and



federal environmental permits. In addition, GZA will coordinate with the contractor to complete best management practices (BMPs) to protect wildlife species during construction. The Natural Heritage Bureau has identified records of wood turtle in the vicinity of the proposed utility structure maintenance areas in Easton. GZA has coordinated with NH Fish and Game (NHFG) and have received recommendations for BMPs from NHFG that will be incorporated into the project. If snakes or turtles are spotted within the work area, GZA will document as necessary and safely relocate them off access roads and work pads and report to NHFG.

- B. ***The proposed activity will have no substantive negative environmental impact to abutting or downstream property and/or hydrologically connected water and/or wetland resources. Items to be considered include: erosion; siltation; turbidity; loss of fish and wildlife; loss of unique habitat having demonstrable natural, scientific, or educational value; loss or decrease of beneficial aquatic organisms and wetland plants; dangers of flooding and pollution; destruction of the economic aesthetic, recreational and other public and private uses and values of the wetlands to the community.*** The proposed structure replacement work is located within an existing and maintained ROW which will continue to exist as a maintained utility ROW. Erosion and sediment controls will be installed prior to start of work. As previously mentioned, and consistent with the CGP, qualified inspectors will conduct routine erosion and sediment control inspections through the duration of construction. Recommendations will be made as needed to ensure erosion and sediment controls continue to be effective through the duration of the project to protect wetland resources. Stream crossings are temporary and will be bridge matted during construction and removed upon completion of work. Wetland impacts are temporary and will be restored upon completion of work, and access and work pad locations are proposed in uplands to the greatest extent. Therefore, the proposed project is not anticipated to result in reducing flood flow alteration. Upon completion of construction, the ROW will continue to function as a mowed and maintained utility line corridor and the proposed project is not anticipated to result in negative environmental impact to abutting or downstream properties and wetland resources.
- C. ***The proposed activity or use cannot practicably be located otherwise on the site to eliminate or reduce the impact to the wetland or its buffer.*** Work is proposed within an existing and maintained utility ROW and proposes replacement of existing structures. Access is required in wetlands and upland buffers due to the linear nature of the ROW and need for equipment access. In order to gain access to work locations, upland access routes will be used to the greatest extent possible. Timber matting will be used where wetlands must be crossed to limit and prevent rutting and compaction and maintain a hardened surface between tracked vehicles and wetland vegetation. As mentioned, temporary wetland matting will be removed upon completion of work and temporarily impacted wetlands will be restored by applying seedless mulch and native seed, as necessary. Structures will be replaced in the same current alignment within the ROW corridor, and therefore the proposed activity cannot be practicably located elsewhere, and impacts will be minimized to the greatest extent.
- D. ***The proposed activity utilizes applicable best management practices.*** The proposed project will follow the NH Department of Natural and Cultural Resources March 2019 Best Management Practices Manual for Utility Maintenance in and Adjacent to Wetlands and Waterbodies in New Hampshire. Temporary timber matting will be cleaned and inspected prior to use on Site to prevent spread of invasive plant species. Eversource's contractor will utilize temporary timber matting to cross wetlands during construction and install and maintain erosion and sediment barriers including straw wattle and/or silt fence during construction and post-construction. The areas of temporary impact will be seeded and mulched, as necessary, to promote restoration as nearly as possible to its original grade, condition, and vegetated state. Erosion and sediment barriers will be removed from the Site after vegetation has been established and documented.



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X178-2 Transmission Line Structure Rebuild & OPWG Project

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- E. **Federal and/or State permit(s) have been received for the proposed activity in accordance with NH Code of Administrative Rules Env-Wt 100-800 and the Federal Clean Water Act Section 404 Permit.** As part of the proposed project, a Standard Dredge and Fill (Phase 1) was filed with the New Hampshire Department of Environmental Services (NHDES # 2024-00468) and has been approved.
- F. **Where applicable, proof of compliance with all other State and/or federal regulations has been received.** Where applicable, a NHDES Alteration of Terrain Permit application will be submitted for proposed grading in uplands as part of this project. In the Town of Easton, a temporary driveway is proposed on the west side of Easton Valley Road to existing Structure 297 and a temporary driveway permit application has been filed with the New Hampshire Department of Transportation. At the federal level, Eversource has submitted a Pre-Construction Notice application to the US Army Corps of Engineers and a Notice of Intent consistent with the US Environmental Protection Agency Construction General Permit will be filed prior to the start of work. A summary of permit types and status is provided below.

Level	Agency	Permit Application	Permit Number	Status
State	NHDES Wetlands Bureau	Standard Dredge and Fill (Phase 1)	2024-00468	Approved
	NHDES Alteration of Terrain Bureau	Alteration of Terrain (Phase 1)	AoT-2597	Approved
	NH Department of Transportation	Temporary Driveway Permit	01-495-6355-T	Approved
Federal	US Army Corps of Engineers	Pre-Construction Notice	NAE-2023-00910	Pending
	Environmental Protection Agency	Notice of Intent	Pending	Pending

Please feel free to contact us with any questions.

Very truly yours,

GZA GEOENVIRONMENTAL, INC.

Steven D. Riker, CWS
Senior Project Manager

Tracy Tarr, CWS, CWB, CESSWI
Associate Principal

Deborah M. Zarta Gier, CNRP
Consultant/Reviewer

SDR/TLT/DMZ:jljb

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Attachments: Conditional Use Permit Application Form
Abutter List
Photo Log
Wetland Function and Value Assessment Forms
Figure 1 – Locus Plan
Figure 2 – Access and Permitting Plans
Figure 3 – Tax Map
Figure 4 – NRCS Soils Plans
Application Fee



Conditional Use Permit Application Form

CONDITIONAL USE PERMIT - APPLICATION

Easton Planning Board, 1060 Easton Valley Road, Easton, NH 03580 - 603-823-8017

A Conditional Use is innovative land use control per RSA 674:16. A Conditional Use Permit is granted by the Planning Board. It is not a Building Permit which may be obtained from the Select Board after a Conditional Use Permit is granted. Because the Planning Board must give prior public notice when it will be considering an Application, the Applicant must:

1. File: this filled-out a application at least 21 days before a scheduled regular meeting of the Board.
2. Provide: - A complete abutter list with addresses verified to be current within 5 days of filing.
 - Names and addresses of professionals whose seals appear on any exhibit.
 - Submission documents insofar as possible. *

3. Remit: fee and cost of notices by check or money order made out to Treasurer, Town of Easton
A fee schedule is available in the Town Offices and on line.

**Submission requirements, and procedures are detailed in the Easton Zoning Ordinance and Easton Subdivision Regulations available on line at www.easton-nh.gov. Federal time allotments apply for consideration of Telecommunication Facilities.*

Eversource Energy Right-of-Way

Tax Map and Lot No(s) of Existing Property under consideration

Date filed

Amt. Rec'd

Rec'd by

Eversource is proposing to replace existing utility structures on the X178 Transmission Line which must be replaced in order to maintain the safety and reliability of the electrical infrastructure.

General description of proposed use

The undersigned owner(s), registered lessee and/or designated agent hereby submits to the Easton Planning Board a completed Application and Plat for a Conditional Use Permit related to the above-identified lot and property

dated _____, entitled, _____

and request(s) approval of said Application and Plat. The Permit sought applies to the Easton Zoning Ordinance:

☒ Article 9 - Sec 901 Wetlands

☐ Article 902 - Groundwater

☐ Article 10 Telecommunications Facilities

☐ Article 903 – Steep Slope Overlay District

In consideration for this permit, and privileges accruing thereto, the applicant hereby agrees to:

- 1) Carry out the improvements as shown and intended by said Plat and/or Conditional Use Permit, including any work made necessary by unforeseen conditions which become apparent during construction;
- 2) Save the Town harmless from any obligation it may incur, or repairs it may make, because of applicant's failure to carry out any of the foregoing provisions;
- 3) Grant permission for members of the Board or their agents to enter the proposed subdivision property/construction site described herein for inspection and oversight;
- 4) Give the Town, on demand, proper deeds etc. for roads, rights of way, and other lands to be public;
- 5) Post all roads "private" until such time as they are accepted by the Town;
- 6) Make no changes whatsoever in the Final Plat or plan as approved/granted by the Board unless a revised plan and/or Conditional Use Permit Application is submitted to and approved by the Board
- 7) Conform fully with the requirements of the Easton Zoning Ordinance and Easton Subdivision Regulations;

Eversource Energy, ATTN: Kurt Nelson

Owner/s) (Name on Deed) PLEASE PRINT

13 Legends Drive, Hooksett, NH 03106 603-634-3256

kurt.nelson@eversource.com



Owners Address phone & email

Owner Signatures

Registered Authorized Lessee (Name on lease)

Lessee Address phone & email

Agent or Authorized Lessee designated by attached notarized letter to be contact for all related communications.

Steven Riker

Name PLEASE PRINT

Signature



5 Commerce Park North, Bedford, NH 03110, steven.riker@gza.com, 603-232-8739

Address, phone & email

EASTON, NH - CONDITIONAL USE PERMIT DECISION

THE EASTON PLANNING BOARD:

GRANTS * ☐

CONDITIONALLY GRANTS* ☐

DENIES ☐

A CONDITIONAL USE PERMIT FOR LOT(S) _____ TAX MAP ____ IN EASTON, NH:

FOR THE PURPOSE OF _____

AS SOUGHT BY _____

IN THE SIGNED APPLICATION, DATED _____, ON THE REVERSE OF THIS FORM.

*THIS CONDITIONAL USE PERMIT IS GRANTED SUBJECT TO SATISFACTORY ADHERENCE TO THE EASTON ZONING ORDINANCE & SUBDIVISION REGULATIONS, INCLUDING COMPLETION OF THE CONDITIONS LISTED BELOW AS DETERMINED BY THE EASTON PLANNING BOARD AND/OR ITS DULY AUTHORIZED AGENT IN CONSULTATION WITH OTHER EASTON BOARDS AND CONSULTANTS.

CONDITIONS FOR APPROVAL:

FULFILLED

APPROVED BY & DATE

_____	<input type="checkbox"/>	_____
_____	<input type="checkbox"/>	_____
_____	<input type="checkbox"/>	_____
_____	<input type="checkbox"/>	_____
_____	<input type="checkbox"/>	_____
_____	<input type="checkbox"/>	_____
_____	<input type="checkbox"/>	_____
_____	<input type="checkbox"/>	_____
_____	<input type="checkbox"/>	_____
_____	<input type="checkbox"/>	_____

THIS CONDITIONAL USE PERMIT IS DENIED FOR THE FOLLOWING REASON(S):

IF MORE ROOM IS NEEDED ATTACH ADDITIONAL SHEETS TO THIS APPLICATION

Chair - Easton Planning Board

Date



Abutter List



X178-2 Transmission Line Rebuild and OPGW Project

Eversource Energy Subject Parcels List Easton, New Hampshire

Wetland Scientist

GZA GeoEnvironmental, Inc.
Attn: Tracy Tarr, CWS, CWB, CESSWI
5 Commerce Park North, Suite 201
Bedford, NH 03110

Owner/Applicant

Eversource Energy
PO Box 270
Hartford, CT 06141

Civil Engineer

Keach-Nordstrom Associates, Inc.
Attn: Paul Chisholm, PE
10 Commerce Park North, Suite 3
Bedford, NH 03110

Tax Map – Lot 000002-000028-000000

41 Dyke Road, LLC
1288 Easton Road
Sugar Hill, NH 03586

Tax Map – Lot 000005-000015-000000

Sullivan/Buzzell Living Trust
10 Burnham School Rd.
Arundel, ME 04046

Tax Map – Lot 000003-000016-000000

T&T Mountain Investments, LLC
244 Main St.
Franconia, NH 03580

Tax Map – Lot 000002-000046-000000

Niland, Denis & Patricia M.
391 Chesterfield Street
Paramus, NJ 07652

Tax Map – Lot 000002-000027-00000F

Willis, Julia Anne
221 Old Jail Lane
Barnstable, MA 02630

Tax Map – Lot 000002-000027-00000D

Macomber, Alex.
166 Sugarbush Lane
Easton, NH 03580

Tax Map – Lot 000005-000028-000000

Noga, Barbara P. & Andrew
135 Chase Way
Manchester, NH 03104

Tax Map – Lot 000005-000030-000000

Noel, Daniel & Gayle
44 Huntwood Drive
Clifton Park, NY 12065

Tax Map – Lot 000002-000029-000000

Eric W. Chase
59 Dyke Road
Sugar Hill, NH 03580

Tax Map – Lot 000002-000027-00000E

Prestidge, John M. & Sawtelle, Gail H.
168 Sugarbush Lane
Easton, NH 03580

Tax Map – Lot 000003-000021-000000

Ruskin, Marc, Philipee, & Adina
C/O Dr. Francine Ruskin
262 Central Park W
New York, NY 010024

Tax Map – Lot 000002-000027-00000C

Kahn, Nancy & Joseph
1 Windemere Lane
Wellesley, MA 02481

Tax Map – Lot 000005-000013-000000 & 000005-000014-000000

Cuomo-Poirier, Natasha
172 Woodcrest CT.
Manchester, NH 03109

Tax Map – Lot 000002-000045-000000

Cashman, Richard & Lezlie
700 Beach Dr, NE, APT#803
ST. Petersburg, FL 33701

Tax Map – Lot 000005-000005-000000

Whitecomb, Stephen & Suzanne
1861 Easton Valley Rd
Easton, NH 03580

Tax Map – Lot 000002-000044-000000

Krueger, Karl F. & Judy I.
117 North Pond Road
Chester, NH 03036

Tax Map – Lot 000005-000029-000000

Morabito, Pamela G.
Perron, Willfred G.
7358 Currier Road
Loudon, NH 03307-1333

Tax Map – Lot 000002-000006-000000

Sherburn, Stanley & Lorie
2099 Easton Road
Franconia, NH 03580

Tax Map – Lot 000005-000034-000000

Steed, Rachel
7412 Mountain Road Unit 142
Stowe, Vt 05672

Tax Map – Lot 000003-000010-000000

Ward, Ruth W.
Pastoriza, Kristina
386 Rt. 123
Stoddard, NH 03464-4176

Tax Map – Lot 000003-000015-000000

Doty, Barbara E.
162 Loop Road
Easton, NH 03580



**X178-2 Transmission Line Rebuild and OPGW Project
Eversource Energy
Subject Parcels List
Easton, New Hampshire**

Tax Map – Lot 000003-000020-000000

Ruskin, Marc H. & Philippe A.
865 West End Avenue, Apt 4A
New York, NY 1025

**Tax Map – Lot 000005-000006-
000000**

Labuski Real Estate, LLC
203 Farmland Drive
Elizabethtown, PA 17022



X178-2 Transmission Line Rebuild and OPGW Project
Eversource Energy
Abutter Parcels List
Easton, New Hampshire

Wetland Scientist

GZA GeoEnvironmental, Inc.
Attn: Tracy Tarr, CWS, CWB, CESSWI
5 Commerce Park North, Suite 201
Bedford, NH 03110

Owner/Applicant

Eversource Energy
PO Box 270
Hartford, CT 06141

Civil Engineer

Keach-Nordstrom Associates, Inc.
Attn: Paul Chisholm, PE
10 Commerce Park North, Suite 3
Bedford, NH 03110

Tax Map – Lot 000001-000004-000000 & 000001-000005-000000

Cleveland, Mark & Elizabeth, TR
The Lupin Meadow Reality trust
PO Box 509
Norwell, MA 02061

Tax Map – Lot 000001-000006-000000

Hussey, Peter C.
42 Alton Street
Portland, ME 04103

Tax Map – Lot 000001-000007-000000

Weiss, Philip
224 Kinsman Ridge Road
Easton, NH 03580

Tax Map – Lot 000001-000028-000000

Hitchcock, Daniel P.
141 Sugar Hill Road
Easton, NH 03580

Tax Map – Lot 000002-000004-000000

The R. David Ames, Jr. Revocable
The Tracy E.S. Ames Revocable Trust
164 NH Route 25
Meridith, NH 03253

Tax Map – Lot 000002-000005-000000

Sandler, A. Ronnie
131 Sugar Hill
Easton, NH 03580

Tax Map – Lot 000002-000015-000000

Ovens, David & Jodi
199 Valley View Road
Easton, NH 03580

Tax Map – Lot 000002-000027-000000

Kahn, Nancy & Joseph
1 Windemere Lane
Wellesley, MA 02481

Tax Map – Lot 000002-000032-000000

Ammonoosuc Conservation Trust
PO Box 191
Franconia, NH 03580

Tax Map – Lot 000002-000036-000000

McNary, Steven & Pamela
15 Ruskin Road
Easton, NH 03580

Tax Map – Lot 000002-000038-000000

Golding, Brage W. and Karen B.
125 Park Street Apt. 3
Brookline, MA 02446

Tax Map – Lot 000002-000039-000000

Popovich, Christine
44 Hedgerose Lane
Bethlehem, NH 03574

Tax Map – Lot 000002-000040-000000

Farr, Brook & Suzanne
16 South Shore Road
Salem, NH 03079

Tax Map – Lot 000002-000041-000000 & 000002-000042-000000

Trump, Donald Jr.
113 Graniteville Road
Chelmsford, MA 01824

Tax Map – Lot 000002-000043-000000

Foley, Erik A.
202 North Peak Drive
Easton, NH 03580

Tax Map – Lot 000002-000047-000000

Willis, John
PO Box 242
Block Island, RI 02807

Tax Map – Lot 000002-000062-000000

Pepper Brook Subdivision
North Peak Drive
Easton, NH 03580

Tax Map – Lot 000003-000001-000000 & 000003-000014-000000

Town of Easton
1060 Easton Valley Road
Easton, NH 03580

Tax Map – Lot 000003-000004-000000 & 000003-000005-000000

Thoma Trust the Joyce C.
Joyce C. Thoma Trust
PO Box 92 – 44 Loop Road
Franconia, NH 03580

Tax Map – Lot 000003-000008-000000

Sayles B. Livingston Revocable
David L. Wilson Revocable Trust
PO Box 368
Adamsville, RI 02801

Tax Map – Lot 000003-000013-000000

Mclaren, George P.C. – Trustee
PO Box 752
Franconia, NH 03580



X178-2 Transmission Line Rebuild and OPGW Project
Eversource Energy
Abutter Parcels List
Easton, New Hampshire

Tax Map – Lot 000003-000015-00000A

JHA, Neeti & Amalanshu
6 Blossom Street
Lexington, MA 02421

Tax Map – Lot 000003-000016-00000C

Plante, Patrick W. & Kathleen
19 Ruskin Road
Franconia, NH 03580

Tax Map – Lot 000003-000020-00000A

Farhi, Jacques-Paul-Jane-Pamela
15 West 70 Second Street Apt 36C
New York, NY 10023

Tax Map – Lot 000003-000025-000000

Goodhue, Christopher
34 Ruskin Road
Easton, NH 03580

Tax Map – Lot 000004-000039-000000

Graham, Shawn & Anne
95 Beaver Meadow
Easton, NH 03580

Tax Map – Lot 000005-000001-000000

Roberts, Paige
1809 Easton Valley Road
Easton, NH 03580

Tax Map – Lot 000005-000016-000000

Leahy, Michael E., Trustee
Leahy, Janic E., Trustee
1 Burning tree Lane
Chelmsford, MA 01824

Tax Map – Lot 000005-000031-000000

McCullough, Linda
1640 Highland Park Drive S.
Lake Wales, FL 33898

Tax Map – Lot 000003-000016-00000A

T&T Mountain Investments, LLC
244 Main Street
Franconia, NH 03580

Tax Map – Lot 000003-000018-000000

Finnegan, Myles & Carol-Ann
371 Cherry Valley Road
Bethlehem, NH 03574

Tax Map – Lot 000003-000020-00000B

Farhi, Jacques-Jane-Pamela
15 West 70 Second Street Apt 36C
New York, NY 10023

Tax Map – Lot 000003-000026-000000

Thoma Trust the Joyce C.
Joyce C. Thoma Trust
PO Box 92 – 44 Loop Road
Franconia, NH 03580

Tax Map – Lot 000004-000040-000000

Lacroix, Barry J. & O'Leary, A.
31 Cherry Hill Street
West Newbury, MA 01985

Tax Map – Lot 000005-000008-000000

Gols, Lorie
Easton Valley Road
Easton, NH 03580

Tax Map – Lot 000005-000017-000000

Tulley, John & Briggs, Anna
111 Gingerbread Road
Easton, NH 03580

Tax Map – Lot 000005-000032-000000

Bellerose, Roger J. and Ann C.
Roger J. Jr. and Ann C. Bellrose Rev
Trust
127 Tirrell Hill Road

Tax Map – Lot 000003-000016-00000B

McNary, Steven & Pamela
15 Ruskin Road
Easton, NH 03580

Tax Map – Lot 000003-000019-000000

Kellogg, John
13 Rue Jean Jaures, 03000 Moulins
France

Tax Map – Lot 000003-000020-00000C

Ruskin Marc, Philipee, & Adina
865 West End Ave Apt 4A
New York, NY 10025

Tax Map – Lot 000004-000035-000000 & 000005-000001-000000

Darvid, Anna & Anthony
1730 Easton Valley Road
Franconia, NH 03580

Tax Map – Lot 000004-000041-000000

Mei. Zhenye
139 Beaver Meadow
Easton, NH 03580

Tax Map – Lot 000005-000012-000000

Treuman, Laura L.
PO Box 493
Franconia, NH 03580

Tax Map – Lot 000005-000027-000000

Brick, Margaret M., and John W.
144 Gingerbread Road
Easton, NH 03580

Tax Map – Lot 000005-000033-000000

Cimino, Joseph P. & Mary Ann
PO Box 536
Franconia, NH 03580



X178-2 Transmission Line Rebuild and OPGW Project
Eversource Energy
Abutter Parcels List
Easton, New Hampshire

Tax Map – Lot 000005-000035-000000

Manupelli, Leonard & Susan
31 Hadley Road
Pepperell MA, 01463

Tax Map – Lot 000005-000040-000000

Whitecomb, Stephen
1861 Easton Valley Road
Easton, NH 03580

Tax Map – Lot 000005-000036-000000

Aiguier, Dean
320 West Second Street Unit 510
South Boston, MA 02127

Tax Map – Lot 000005-000041-000000

Muser, Thomas
72 Isalene Street
Hyannis, MA 02601

Tax Map – Lot 000005-000039-000000

Brownlee, Scott
Hasselbarth, Kierstan
15 Vista Lane
Easton, NH 03580

White Mountain National Forest

US Forest Service
71 White Mountain Drive
Campton, NH 03223



Photo Log

PHOTO LOG
X178 Transmission Line Rebuild & OPGW Project
Easton, New Hampshire

Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 1: Looking westerly at proposed access and work pad location for Structure 288.



Photograph No. 2: Looking westerly at proposed access and work pad location for Structure 291.

PHOTO LOG
X178 Transmission Line Rebuild & OPGW Project
Easton, New Hampshire

Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 3: Looking westerly at proposed access and work pad location for Structure 292.



Photograph No. 4: Looking westerly at proposed access toward Structure 293

PHOTO LOG

X178 Transmission Line Rebuild & OPGW Project Easton, New Hampshire

Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 5: Looking westerly at proposed access toward Structure 294.



Photograph No. 6: Looking westerly at proposed access and work pad location for Structure 294.

PHOTO LOG
X178 Transmission Line Rebuild & OPGW Project
Easton, New Hampshire
Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 7: Looking westerly at proposed work pad location for Structure 295.



Photograph No. 8: Looking westerly at proposed access and work pad location for Structure 297.

PHOTO LOG

X178 Transmission Line Rebuild & OPGW Project Easton, New Hampshire

Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 9: Looking westerly at proposed access toward Structure 298.



Photograph No. 10: Looking westerly at proposed access toward Structure 299.

PHOTO LOG
X178 Transmission Line Rebuild & OPGW Project
Easton, New Hampshire
Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 11: Looking northwesterly at proposed access and work pad location for Structure 302.



Photograph No. 12: Looking northwesterly into Wetland ET-31.

PHOTO LOG
X178 Transmission Line Rebuild & OPGW Project
Easton, New Hampshire
Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 13: Looking easterly into Wetland ET-34.



Photograph No. 14: Looking northerly at proposed work pad location for Structure 308.

PHOTO LOG

**X178 Transmission Line Rebuild & OPGW Project
Easton, New Hampshire**

Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 15: Looking northeasterly into Wetland ET-36.1.



Photograph No. 16: Looking northerly at proposed work pad location for Structure 309.

PHOTO LOG

X178 Transmission Line Rebuild & OPGW Project Easton, New Hampshire

Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 17: Looking northerly at proposed access location for Structure 310.



Photograph No. 18: Looking northerly into Wetland ET-37 and northerly view of ROW towards Structure 311.

PHOTO LOG
X178 Transmission Line Rebuild & OPGW Project
Easton, New Hampshire
Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 19: Looking westerly into Wetland ET-38.



Photograph No. 20: Looking northerly at proposed work pad location for Structure 311 in Wetland ET-39.

PHOTO LOG

X178 Transmission Line Rebuild & OPGW Project Easton, New Hampshire

Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 21: Looking northerly at proposed access and work pad location for Structure 312.



Photograph No. 22: Looking southerly at proposed access and work pad location for Structure 315.

PHOTO LOG

**X178 Transmission Line Rebuild & OPGW Project
Easton, New Hampshire**

Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 23: Looking southerly at proposed access and work pad location for Structure 316



Photograph No. 24: Looking southerly at proposed access and work pad location for Structure 317.

PHOTO LOG

X178 Transmission Line Rebuild & OPGW Project Easton, New Hampshire

Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 25: Looking north between Structures 317 and 318 via drone footage. Wetland ET-54 is located to the northwest of Structure 317.



Photograph No. 26: Looking southerly at proposed work pad location for Structure 318.

PHOTO LOG

**X178 Transmission Line Rebuild & OPGW Project
Easton, New Hampshire**

Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 27: Looking southerly into Wetland ET-55.



Photograph No. 28: Looking southerly at proposed access and work pad location for Structure 319.

PHOTO LOG
X178 Transmission Line Rebuild & OPGW Project
Easton, New Hampshire
Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 29: Looking north at Wetland ET-55 and between Structures 318 and 319 via drone footage.
Access is proposed along existing trail.



Photograph No. 30: Looking southerly at proposed access toward Structure 320.

PHOTO LOG
X178 Transmission Line Rebuild & OPGW Project
Easton, New Hampshire
Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 31: Looking north between Structures 319 and 320 via drone footage. Wetland ET-56 is located to the northeast of Structure 319.



Photograph No. 32: Looking southerly at proposed access and work pad location for Structure 321.

PHOTO LOG

X178 Transmission Line Rebuild & OPGW Project Easton, New Hampshire

Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 33: Looking southerly into Wetland ET-72.



Photograph No. 34: Looking north between Structures 320 and 321 via drone footage. Wetland ET-58 is located just north of Structure 320.

PHOTO LOG
X178 Transmission Line Rebuild & OPGW Project
Easton, New Hampshire
Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 35: Looking southeasterly at proposed access and work pad location for Structure 322.



Photograph No. 36: Looking north at Wetland ET-72 and between Structures 321 and 322 via drone footage.

PHOTO LOG

X178 Transmission Line Rebuild & OPGW Project Easton, New Hampshire

Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 37: Looking southerly at proposed access and work pad location for Structure 323.



Photograph No. 38: Looking north between Structures 323 and 324 via drone footage. Wetland ET-72.1 is located to the northwest of Structure 323.

PHOTO LOG

X178 Transmission Line Rebuild & OPGW Project Easton, New Hampshire

Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 39: Looking southerly into Wetland ET-76.



Photograph No. 40: Looking southerly at proposed work pad location for Structure 324.

PHOTO LOG
X178 Transmission Line Rebuild & OPGW Project
Easton, New Hampshire
Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 41: Looking north between Structures 324 and 325 via drone footage. Wetland ET-76 is located around Structure 324.



Photograph No. 42: Looking southerly at proposed access toward Structure 325, which follows an existing trail.

PHOTO LOG
X178 Transmission Line Rebuild & OPGW Project
Easton, New Hampshire
Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 43: Looking southerly at proposed access toward Structure 326, which follows an existing trail.



Photograph No. 44: Looking southerly at proposed access toward Structure 327 and existing trail.

PHOTO LOG

X178 Transmission Line Rebuild & OPGW Project Easton, New Hampshire

Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 45: Looking southerly at proposed access toward Structure 328 and existing trail.



Photograph No. 46: Looking southerly at proposed access and work pad location for Structure 329.

PHOTO LOG
X178 Transmission Line Rebuild & OPGW Project
Easton, New Hampshire
Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 47: Looking southerly at proposed access and work pad location for Structure 330.



Photograph No. 48: Looking easterly into Wetland ET-83.

PHOTO LOG
X178 Transmission Line Rebuild & OPGW Project
Easton, New Hampshire
Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 49: Looking southerly at proposed access toward Structure 331.



Photograph No. 50: Looking southerly into Wetland ET-68.

PHOTO LOG
X178 Transmission Line Rebuild & OPGW Project
Easton, New Hampshire
Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 51: Looking southerly at proposed access and work pad location for Structure 332.

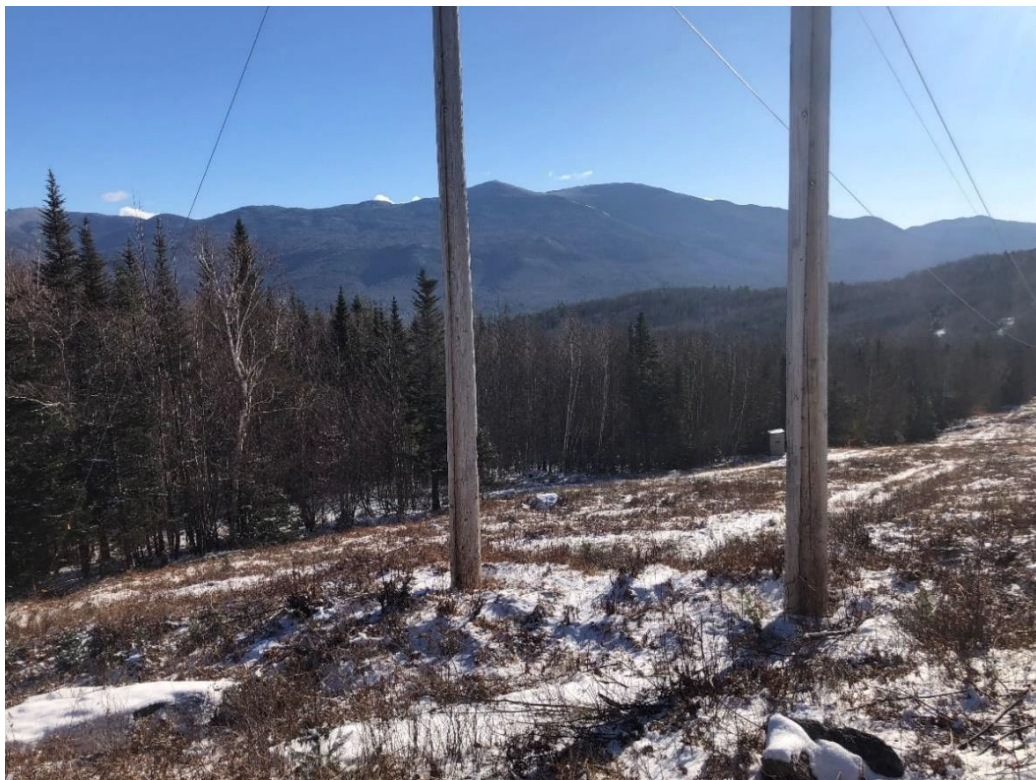


Photograph No. 52: Looking southerly at proposed access toward Structure 333.

PHOTO LOG
X178 Transmission Line Rebuild & OPGW Project
Easton, New Hampshire
Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 53: Looking southerly into Wetland ET-65.



Photograph No. 54: Looking southeasterly at proposed work pad location for Structure 334.

PHOTO LOG
X178 Transmission Line Rebuild & OPGW Project
Easton, New Hampshire
Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 55: Looking southerly at proposed access toward Structure 335.



Photograph No. 56: Looking southeasterly into Wetland ET-64.

PHOTO LOG
X178 Transmission Line Rebuild & OPGW Project
Easton, New Hampshire
Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 57: Looking southerly at proposed access and work pad location for Structure 336, which overlaps an existing trail.



Photograph No. 58: Looking southeasterly into Wetland ET-62.

PHOTO LOG

X178 Transmission Line Rebuild & OPGW Project Easton, New Hampshire

Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 59: Looking southerly at proposed work pad location for Structure 337.



Photograph No. 60: Looking at proposed access toward Structure 338.

PHOTO LOG

**X178-2 Transmission Line Rebuild and OPGW Project
Easton, New Hampshire**

Photos Taken: Drone Photos October 2022, Ground Photos December 8, 13, 14, 2022, and May 9, 10, 2023



Photograph No. 61: Looking southerly at proposed access and work pad location for Structure 339

Wetland Function and Value Assessment Forms



X178 Transmission Line Structure Rebuild Project

**Woodstock, Lincoln, Easton, and Sugar Hill,
New Hampshire**

File No: 04.0191410.39	WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 11/8/2023	
Wetland ID: ET-31 PSS2/4/EM1Fg/R2UB				GZA Personnel: Peter Petkauskos (CWS), Tracy Tarr (CWS)	
Function/Value	Capability Y N	Rationale (Reference #)	Summary	Principal Yes/No	
Groundwater Recharge/Discharge	Y	4, 6, 7, 8, 12, 13	Wetland hydrology is supported by runoff, a seasonally high-water table, and The Ham Branch River. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	Y	
Floodflow Alteration	Y	1, 2, 3, 5, 6, 7, 8, 9, 10, 13, 18	The wetland receives and retains overland sheet flow from surrounding uplands and contains the Ham Branch River.	Y	
Fish and Shellfish Habitat	Y	1, 2, 4, 5, 7, 8, 14, 15, 16, 17	The wetland contains a perennial stream capable of supporting fish populations.	Y	
Sediment/Toxicant Retention	Y	4, 5, 8, 9, 10, 11, 12, 13, 14, 15, 16	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention.	Y	
Nutrient Removal	Y	2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14	The wetland contains very poorly drained organic soils, dense emergent and scrub shrub vegetation, and open water habitat.	Y	
Production Export	Y	1, 2, 4, 5, 7, 8, 10, 12, 13	The wetland contains dense vegetation and export is occurring through wildlife use in the wetland and amphibian dispersal.	Y	
Sediment/Shoreline Stabilization	Y	1, 2, 7, 10, 12, 13, 15	Dense vegetation borders the streams and open water habitat with a defined bank.	Y	
Wildlife Habitat	Y	3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14, 17, 18, 19, 20	The wetland contains a perennial stream and three vernal pools. The wetland is located within highest ranked habitat in NH (see NH WAP Overlay).	Y	
Recreation	Y	1, 3, 5, 6, 7, 8, 9	The wetland is located within the White Mountain National Forest and an open water is present. However, safe access limits its capability.	N	
Educational/Scientific Value	Y	2, 3, 4, 5, 6, 11	The wetland is located within the White Mountain National Forest and a perennial stream, vernal pools, and peatland habitat. However, safe access and parking suitable for school buses is not present.	N	
Uniqueness/Heritage	Y	4, 11, 12, 13, 16, 17, 18, 19, 22	The wetland contains “peatland habitat” a NHDES priority resource area (PRA).	Y	
Visual Quality/Aesthetics	Y	1, 2, 3, 5, 6, 7, 8, 10, 11, 12	The wetland contains view of the bog and the perennial watercourse with some primary viewing locations.	Y	
ES Endangered Species Habitat	Y	1, 2	NHB has have records of wood turtle in the larger landscape and suitable habitat is present (see NHB memo dated NHB24-1713).	Y	

Notes:



X178 Transmission Line Structure Rebuild Project

**Woodstock, Lincoln, Easton, and Sugar Hill,
New Hampshire**

File No: 04.0191410.39		WETLAND FUNCTION – VALUE EVALUATION FORM		Date: 11/8/2023	
Wetland ID: ET-33 PSS1/4/EM1E				GZA Personnel: Peter Petkauskos (CWS), Tracy Tarr (CWS)	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No
Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N
Floodflow Alteration	Y		5	The wetland accepts sheet flow from surrounding uplands.	N
Fish and Shellfish Habitat		N	Not Applicable	No permanently flooded habitat is present within the assessment area.	N
Sediment/Toxicant Retention	Y		4, 5	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention.	N
Nutrient Removal	Y		3, 6, 7, 8, 9	The wetland contains dense emergent and scrub shrub vegetation.	N
Production Export	Y		1, 4, 7	The wetland contains dense vegetation and export is occurring through wildlife use.	N
Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N
Wildlife Habitat	Y		3, 4, 5, 7, 8, 13	The wetland connects to a larger forested wetland off ROW.	Y
Recreation	Y		1, 4, 5	The wetland is located within the White Mountain National Forest. However, there are no water-based recreational opportunities present.	N
Educational/Scientific Value	Y		5, 6	The wetland is located within the White Mountain National Forest. However, safe access and parking suitable for school buses is not present.	N
Uniqueness/Heritage		N	Not Applicable	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N
Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N
ES Endangered Species Habitat		N	Not Applicable	NHB has records of wood turtle in the larger landscape (see NHB memo dated NHB24-1713). However, suitable habitat is not present.	N

Notes:



X178 Transmission Line Structure Rebuild Project

**Woodstock, Lincoln, Easton, and Sugar Hill,
New Hampshire**

File No: 04.0191410.39		WETLAND FUNCTION – VALUE EVALUATION FORM		Date: 11/8/2023	
Wetland ID: ET-34 PSS/EM1E/R3UBb				GZA Personnel: Peter Petkauskos (CWS), Tracy Tarr (CWS)	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No
Groundwater Recharge/Discharge	Y		4, 5, 7, 12	Wetland hydrology is supported by runoff, a seasonally high-water table, and a perennial stream. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N
Floodflow Alteration	Y		3, 5, 9, 10, 13, 18	The wetland receives and retains overland sheet flow from surrounding uplands and contains a perennial stream.	Y
Fish and Shellfish Habitat	Y		1, 2, 3, 4, 7, 10, 14, 15, 17	The wetland contains a perennial stream capable of supporting fish populations.	N
Sediment/Toxicant Retention	Y		4, 5, 10, 16	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention.	Y
Nutrient Removal	Y		2, 3, 5, 7, 8, 9	The wetland contains dense emergent and scrub shrub vegetation and areas or ponded water.	Y
Production Export	Y		1, 4, 7, 10	The wetland contains dense vegetation, a perennial stream, and export is occurring through wildlife use in the wetland.	Y
Sediment/Shoreline Stabilization	Y		1, 2, 6, 7, 8, 10, 12	Dense vegetation borders the stream with a well-defined bank.	N
Wildlife Habitat	Y		3, 4, 5, 6, 7, 8, 13	The wetland contains a perennial watercourse, a beaver dam, and wildlife food sources are within the wetland.	Y
Recreation	Y		1, 4, 5	The wetland is located within the White Mountain National Forest and a perennial stream is present. However, there are no water-based recreational opportunities present.	N
Educational/Scientific Value	Y		5, 6	The wetland is located within the White Mountain National Forest. However, safe access and parking suitable for school buses is not present.	N
Uniqueness/Heritage		N	4, 11, 12, 22	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N
Visual Quality/Aesthetics		N	8	The wetland contains some open water views. However, overall size limits its capability.	N
ES Endangered Species Habitat	Y		1, 2	NHB has records of wood turtle in the larger landscape and suitable habitat is present (see NHB memo dated NHB24-1713).	Y

Notes:



X178 Transmission Line Structure Rebuild Project

**Woodstock, Lincoln, Easton, and Sugar Hill,
New Hampshire**

File No: 04.0191410.39	WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 11/8/2023	
Wetland ID: ET-36.1 PSS/EM1E				GZA Personnel: Peter Petkauskos (CWS), Tracy Tarr (CWS)	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No
Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N
Floodflow Alteration	Y		5	The wetland accepts sheet flow from surrounding uplands.	N
Fish and Shellfish Habitat		N	Not Applicable	No permanently flooded habitat is present within the assessment area.	N
Sediment/Toxicant Retention	Y		4, 5	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention.	N
Nutrient Removal	Y		3, 6, 7, 8, 9	The wetland contains dense emergent and scrub shrub vegetation.	N
Production Export	Y		1, 4, 7	The wetland contains dense vegetation and export is occurring through wildlife use.	N
Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N
Wildlife Habitat	Y		3, 4, 5, 7, 8, 13	The wetland connects to a larger forested wetland off ROW.	Y
Recreation	Y		1, 4, 5	The wetland is located within the White Mountain National Forest. However, there are no water-based recreational opportunities present.	N
Educational/Scientific Value	Y		5, 6	The wetland is located within the White Mountain National Forest. However, safe access and parking suitable for school buses is not present.	N
Uniqueness/Heritage		N	Not Applicable	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N
Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N
ES Endangered Species Habitat		N	Not Applicable	NHB has records of wood turtle in the larger landscape (see NHB memo dated NHB24-1713). However, suitable habitat is not present.	N

Notes:



X178 Transmission Line Structure Rebuild Project

**Woodstock, Lincoln, Easton, and Sugar Hill,
New Hampshire**

File No: 04.0191410.39	WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 10/6/2023	
Wetland ID: ET-37 PSS2/4/EM1Fg				GZA Personnel: Peter Petkauskos (CWS), Tracy Tarr (CWS)	
Function/Value	Capability Y N	Rationale (Reference #)	Summary	Principal Yes/No	
Groundwater Recharge/Discharge	Y	4, 5	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N	
Floodflow Alteration	Y	3, 5, 6, 9	The wetland receives and retains overland sheet flow from surrounding uplands.	N	
Fish and Shellfish Habitat		N	Not Applicable	N	
Sediment/Toxicant Retention	Y	4, 5	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention.	Y	
Nutrient Removal	Y	3, 5, 6, 7, 8, 9	The wetland contains very poorly drained organic soils and dense emergent and scrub shrub vegetation.	Y	
Production Export	Y	1, 4, 7	The wetland contains dense vegetation and export is occurring through wildlife use and amphibian dispersal from the wetland.	Y	
Sediment/Shoreline Stabilization		N	Not Applicable	N	
Wildlife Habitat	Y	3, 4, 5, 7, 8, 13, 18, 19	The wetland is located in "highest ranked habitat in the region" (see NH WAP Overlay). The wetland contains a vernal pool.	Y	
Recreation	Y	1, 4, 5	The wetland is located within the White Mountain National Forest. However, there are no water-based recreational opportunities present.	N	
Educational/Scientific Value	Y	5, 6	The wetland is located within the White Mountain National Forest and contain a vernal pool. However, safe access and parking suitable for school buses is not present.	N	
Uniqueness/Heritage		N	Not Applicable	N	
Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N
ES Endangered Species Habitat		N	Not Applicable	NHB has records of wood turtle in the larger landscape (see NHB memo dated NHB24-1713). However, suitable habitat is not present.	N

Notes:



X178 Transmission Line Structure Rebuild Project

**Woodstock, Lincoln, Easton, and Sugar Hill,
New Hampshire**

File No: 04.0191410.39		WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 11/8/2023		
Wetland ID: ET38 & ET39 PSS/EM1E					GZA Personnel: Peter Petkauskos (CWS), Tracy Tarr (CWS)		
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No		
Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N		
Floodflow Alteration	Y		5	The wetland accepts sheet flow from surrounding uplands.	N		
Fish and Shellfish Habitat		N	Not Applicable	No permanently flooded habitat is present within the assessment area.	N		
Sediment/Toxicant Retention	Y		4, 5	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention.	N		
Nutrient Removal	Y		3, 6, 7, 8, 9	The wetland contains dense emergent and scrub shrub vegetation.	N		
Production Export	Y		1, 4, 7	The wetland contains dense vegetation and export is occurring through wildlife use.	N		
Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N		
Wildlife Habitat	Y		3, 4, 5, 7, 8, 13	The wetland is located in "highest ranked habitat in the region" (see NH WAP Overlay),	Y		
Recreation	Y		1, 4, 5	The wetland is located within the White Mountain National Forest. However, there are no water-based recreational opportunities present.	N		
Educational/Scientific Value	Y		5, 6	The wetland is located within the White Mountain National Forest. However, safe access and parking suitable for school buses is not present.	N		
Uniqueness/Heritage		N	Not Applicable	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N		
Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N		
ES Endangered Species Habitat		N	Not Applicable	NHB has records of wood turtle in the larger landscape (see NHB memo dated NHB24-1713). However, suitable habitat is not present.	N		

Notes:



X178 Transmission Line Structure Rebuild Project

**Woodstock, Lincoln, Easton, and Sugar Hill,
New Hampshire**

File No: 04.0191410.39		WETLAND FUNCTION – VALUE EVALUATION FORM		Date: 11/8/2023	
Wetland ID: ET-52 PEM/SS1/4Fb/R2UB				GZA Personnel: Peter Petkauskos (CWS), Tracy Tarr (CWS)	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No
Groundwater Recharge/Discharge	Y		4, 5, 7, 12	Wetland hydrology is supported by runoff, a seasonally high-water table, and a perennial stream. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N
Floodflow Alteration	Y		3, 5, 9, 10, 13, 18	The wetland receives and retains overland sheet flow from surrounding uplands and contains a perennial stream.	Y
Fish and Shellfish Habitat	Y		1, 2, 3, 4, 7, 10, 14, 15, 17	The wetland contains a perennial stream capable of supporting fish populations.	N
Sediment/Toxicant Retention	Y		4, 5, 10, 16	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention.	Y
Nutrient Removal	Y		2, 3, 5, 6, 7, 8, 9, 14	The wetland contains dense emergent and scrub shrub vegetation, areas or ponded water, and very poorly drained organic soils	Y
Production Export	Y		1, 4, 7, 10	The wetland contains dense vegetation, a perennial stream, and export is occurring through wildlife use in the wetland.	Y
Sediment/Shoreline Stabilization	Y		1, 2, 6, 7, 8, 10, 12	Dense vegetation borders the stream with a well-defined bank.	N
Wildlife Habitat	Y		3, 4, 5, 6, 7, 8, 13	The wetland is located in "highest ranked habitat in the region" (see NH WAP Overlay). The wetland contains a perennial watercourse, a beaver dam, and wildlife food sources are within the wetland.	Y
Recreation	Y		1, 4, 5	The wetland is located within the White Mountain National Forest and a perennial stream is present. However, there are no water-based recreational opportunities present.	N
Educational/Scientific Value	Y		5, 6	The wetland is located within the White Mountain National Forest. However, safe access and parking suitable for school buses is not present.	N
Uniqueness/Heritage		N	4, 11, 12, 22	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N
Visual Quality/Aesthetics		N	8	The wetland contains some open water views. However, overall size limits its capability.	N
ES Endangered Species Habitat	Y		1, 2	NHB has records of wood turtle in the larger landscape and suitable habitat is present (see NHB memo dated NHB24-1713).	Y

Notes:



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**Woodstock, Lincoln, Easton, and Sugar Hill,
New Hampshire**

File No: 04.0191410.39	WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 11/8/2023	
Wetland ID: ET-53 PEM/SS1E				GZA Personnel: Peter Petkauskos (CWS), Tracy Tarr (CWS)	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No
Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N
Floodflow Alteration	Y		5, 18	The wetland accepts sheet flow from surrounding uplands on a small scale.	N
Fish and Shellfish Habitat		N	Not Applicable	No permanently flooded habitat is present within the assessment area.	N
Sediment/Toxicant Retention	Y		4, 5	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention on a small scale.	N
Nutrient Removal	Y		3, 6, 7, 8, 9	The wetland contains dense emergent and scrub shrub vegetation.	N
Production Export	Y		1, 4, 7	The wetland contains dense vegetation and export is occurring through wildlife use.	N
Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N
Wildlife Habitat	Y		3, 4, 5, 7, 8, 13	The wetland is located within highest ranked habitat in the region (see NH WAP Overlay). Overall size limits its capabilities.	N
Recreation		N	4, 5	There are no water-based recreational opportunities present.	N
Educational/Scientific Value		N	5	The wetland is located on private property. Safe access and parking suitable for school buses is not present.	N
Uniqueness/Heritage		N	Not Applicable	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N
Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N
ES Endangered Species Habitat		N	Not Applicable	NHB has records of wood turtle in the larger landscape (see NHB memo dated NHB22-3463). However, suitable habitat is not present.	N

Notes:



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Woodstock, Lincoln, Easton, and Sugar Hill,
New Hampshire

File No: 04.0191410.39	WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 11/8/2023	
Wetland ID: ET-54 PEM/SS1E				GZA Personnel: Peter Petkauskos (CWS), Tracy Tarr (CWS)	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No
 Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N
 Floodflow Alteration	Y		5, 18	The wetland accepts sheet flow from surrounding uplands on a small scale.	N
 Fish and Shellfish Habitat		N	Not Applicable	No permanently flooded habitat is present within the assessment area.	N
 Sediment/Toxicant Retention	Y		4, 5	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention on a small scale.	N
 Nutrient Removal	Y		3, 6, 7, 8, 9	The wetland contains dense emergent and scrub shrub vegetation.	N
 Production Export	Y		1, 4, 7	The wetland contains dense vegetation and export is occurring through wildlife use.	N
 Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N
 Wildlife Habitat	Y		3, 4, 5, 7, 8, 13	The wetland is located within highest ranked habitat in the region (see NH WAP Overlay). Overall size limits its capabilities.	N
 Recreation		N	4, 5	There are no water-based recreational opportunities present.	N
 Educational/Scientific Value		N	5	The wetland is located on private property. Safe access and parking suitable for school buses is not present.	N
 Uniqueness/Heritage		N	Not Applicable	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N
 Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N
ES Endangered Species Habitat		N	Not Applicable	NHB has records of wood turtle in the larger landscape (see NHB memo dated NHB22-3463). However, suitable habitat is not present.	N

Notes:



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**Woodstock, Lincoln, Easton, and Sugar Hill,
New Hampshire**

File No: 04.0191410.39		WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 11/8/2023	
Wetland ID: ET-55 PSS1/4/EM1/FO1/4E					GZA Personnel: Peter Petkauskos (CWS), Tracy Tarr (CWS)	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No	
Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N	
Floodflow Alteration	Y		5, 6, 9, 18	The wetland accepts sheet flow from surrounding uplands.	N	
Fish and Shellfish Habitat		N	Not Applicable	No permanently flooded habitat is present within the assessment area.	N	
Sediment/Toxicant Retention	Y		4, 5	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention.	Y	
Nutrient Removal	Y		3, 6, 7, 8, 9	The wetland contains dense emergent and scrub shrub vegetation.	N	
Production Export	Y		1, 4, 7	The wetland contains dense vegetation and export is occurring through wildlife use.	N	
Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N	
Wildlife Habitat	Y		3, 4, 5, 7, 8, 13	The wetland is located within highest ranked habitat in the region (see NH WAP Overlay).	Y	
Recreation		N	4, 5	There are no water-based recreational opportunities present.	N	
Educational/Scientific Value		N	5	The wetland is located on private property. Safe access and parking suitable for school buses is not present.	N	
Uniqueness/Heritage		N	Not Applicable	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N	
Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N	
ES Endangered Species Habitat		N	Not Applicable	NHB has records of wood turtle in the larger landscape (see NHB memo dated NHB22-3463). However, suitable habitat is not present.	N	

Notes:



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Woodstock, Lincoln, Easton, and Sugar Hill,
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File No: 04.0191410.39	WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 11/8/2023	
Wetland ID: ET-56 PSS1/EM1/FO1/4E				GZA Personnel: Peter Petkauskos (CWS), Tracy Tarr (CWS)	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No
Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N
Floodflow Alteration	Y		5, 6, 9, 18	The wetland accepts sheet flow from surrounding uplands.	N
Fish and Shellfish Habitat		N	Not Applicable	No permanently flooded habitat is present within the assessment area.	N
Sediment/Toxicant Retention	Y		4, 5	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention.	Y
Nutrient Removal	Y		3, 6, 7, 8, 9	The wetland contains dense emergent and scrub shrub vegetation.	N
Production Export	Y		1, 4, 7	The wetland contains dense vegetation and export is occurring through wildlife use.	N
Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N
Wildlife Habitat	Y		3, 4, 5, 7, 8, 13	The wetland is located within highest ranked habitat in the region (see NH WAP Overlay).	Y
Recreation		N	4, 5	There are no water-based recreational opportunities present.	N
Educational/Scientific Value		N	5	The wetland is located on private property. Safe access and parking suitable for school buses is not present.	N
Uniqueness/Heritage		N	Not Applicable	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N
Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N
ES Endangered Species Habitat		N	Not Applicable	NHB has records of wood turtle in the larger landscape (see NHB memo dated NHB22-3463). However, suitable habitat is not present.	N

Notes:



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**Woodstock, Lincoln, Easton, and Sugar Hill,
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File No: 04.0191410.39	WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 11/8/2023	
Wetland ID: ET-58 PSS/EM1E				GZA Personnel: Peter Petkauskos (CWS), Tracy Tarr (CWS)	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No
Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N
Floodflow Alteration	Y		5, 18	The wetland accepts sheet flow from surrounding uplands on a small scale.	N
Fish and Shellfish Habitat		N	Not Applicable	No permanently flooded habitat is present within the assessment area.	N
Sediment/Toxicant Retention	Y		4, 5	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention on a small scale.	N
Nutrient Removal	Y		3, 6, 7, 8, 9	The wetland contains dense emergent and scrub shrub vegetation.	N
Production Export	Y		1, 4, 7	The wetland contains dense vegetation and export is occurring through wildlife use.	N
Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N
Wildlife Habitat	Y		3, 4, 5, 7, 8, 13	The wetland is located within highest ranked habitat in the region (see NH WAP Overlay). Overall size limits its capabilities.	N
Recreation		N	4, 5	There are no water-based recreational opportunities present.	N
Educational/Scientific Value		N	5	The wetland is located on private property. Safe access and parking suitable for school buses is not present.	N
Uniqueness/Heritage		N	Not Applicable	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N
Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N
ES Endangered Species Habitat		N	Not Applicable	NHB has records of wood turtle in the larger landscape (see NHB memo dated NHB22-3463). However, suitable habitat is not present.	N

Notes:



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Woodstock, Lincoln, Easton, and Sugar Hill,
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File No: 04.0191410.39		WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 11/8/2023	
Wetland ID: ET-62 PSS1/EM1/FO1/4E					GZA Personnel: Peter Petkauskos (CWS), Tracy Tarr (CWS)	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No	
Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N	
Floodflow Alteration	Y		5, 6, 9, 18	The wetland accepts sheet flow from surrounding uplands.	N	
Fish and Shellfish Habitat		N	Not Applicable	No permanently flooded habitat is present within the assessment area.	N	
Sediment/Toxicant Retention	Y		4, 5	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention.	Y	
Nutrient Removal	Y		3, 6, 7, 8, 9	The wetland contains dense emergent and scrub shrub vegetation.	N	
Production Export	Y		1, 4, 7, 8	The wetland contains dense vegetation and export is occurring through wildlife use.	N	
Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N	
Wildlife Habitat	Y		3, 4, 5, 7, 8, 13, 15	Overall plant diversity is low, however habitat diversity is present.	Y	
Recreation		N	4, 5	There are no water-based recreational opportunities present.	N	
Educational/Scientific Value		N	5	The wetland is located on private property. Safe access and parking suitable for school buses is not present.	N	
Uniqueness/Heritage		N	4	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N	
Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N	
ES Endangered Species Habitat		N	Not Applicable	NHB has records of wood turtle in the larger landscape (see NHB memo dated NHB22-3463). However, suitable habitat is not present.	N	

Notes:



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**Woodstock, Lincoln, Easton, and Sugar Hill,
New Hampshire**

File No: 04.0191410.39	WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 11/8/2023	
Wetland ID: ET-64 PEM1/SS1/FO1/4E				GZA Personnel: Peter Petkauskos (CWS), Tracy Tarr (CWS)	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No
Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N
Floodflow Alteration	Y		5, 6, 9, 18	The wetland accepts sheet flow from surrounding uplands.	N
Fish and Shellfish Habitat		N	Not Applicable	No permanently flooded habitat is present within the assessment area.	N
Sediment/Toxicant Retention	Y		4, 5	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention.	Y
Nutrient Removal	Y		3, 6, 7, 8, 9	The wetland contains dense emergent and scrub shrub vegetation.	N
Production Export	Y		1, 4, 7, 8	The wetland contains dense vegetation and export is occurring through wildlife use.	N
Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N
Wildlife Habitat	Y		3, 4, 5, 7, 8, 13, 15	Overall plant diversity is low, however habitat diversity is present.	Y
Recreation		N	4, 5	There are no water-based recreational opportunities present.	N
Educational/Scientific Value		N	5	The wetland is located on private property. Safe access and parking suitable for school buses is not present.	N
Uniqueness/Heritage		N	4	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N
Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N
ES Endangered Species Habitat		N	Not Applicable	NHB has records of wood turtle in the larger landscape (see NHB memo dated NHB22-3463). However, suitable habitat is not present.	N

Notes:



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**Woodstock, Lincoln, Easton, and Sugar Hill,
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File No: 04.0191410.39		WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 11/8/2023		
Wetland ID: ET-65 PSS/EM1E, PFO1/4E					GZA Personnel: Peter Petkauskos (CWS), Tracy Tarr (CWS)		
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No		
Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N		
Floodflow Alteration		N	5, 18	The wetland is located on a side slope.	N		
Fish and Shellfish Habitat		N	Not Applicable	No permanently flooded habitat is present within the assessment area.	N		
Sediment/Toxicant Retention	Y		4, 5	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention.	Y		
Nutrient Removal	Y		3, 6, 7, 8, 9	The wetland contains dense emergent and scrub shrub vegetation.	N		
Production Export	Y		1, 4, 7	The wetland contains dense vegetation and export is occurring through wildlife use.	N		
Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N		
Wildlife Habitat	Y		3, 4, 5, 7, 8, 13, 15	Overall plant diversity is low, however habitat diversity is present.	Y		
Recreation		N	4, 5	There are no water-based recreational opportunities present.	N		
Educational/Scientific Value		N	5	The wetland is located on private property. Safe access and parking suitable for school buses is not present.	N		
Uniqueness/Heritage		N	4	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N		
Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N		
ES Endangered Species Habitat		N	Not Applicable	NHB has records of wood turtle in the larger landscape (see NHB memo dated NHB22-3463). However, suitable habitat is not present.	N		

Notes:



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**Woodstock, Lincoln, Easton, and Sugar Hill,
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File No: 04.0191410.39		WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 11/8/2023		
Wetland ID: ET-67 PSS/EM1E					GZA Personnel: Peter Petkauskos (CWS), Tracy Tarr (CWS)		
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No		
Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N		
Floodflow Alteration		N	5, 18	The wetland is located on a side slope.	N		
Fish and Shellfish Habitat		N	Not Applicable	No permanently flooded habitat is present within the assessment area.	N		
Sediment/Toxicant Retention	Y		4, 5	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention.	Y		
Nutrient Removal	Y		3, 6, 7, 8, 9	The wetland contains dense emergent and scrub shrub vegetation.	N		
Production Export	Y		1, 4, 7	The wetland contains dense vegetation and export is occurring through wildlife use.	N		
Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N		
Wildlife Habitat	Y		3, 4, 5, 7, 8, 13	Overall plant diversity is low.	N		
Recreation		N	4, 5	There are no water-based recreational opportunities present.	N		
Educational/Scientific Value		N	5	The wetland is located on private property. Safe access and parking suitable for school buses is not present.	N		
Uniqueness/Heritage		N	Not Applicable	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N		
Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N		
ES Endangered Species Habitat		N	Not Applicable	NHB has records of wood turtle in the larger landscape (see NHB memo dated NHB22-3463). However, suitable habitat is not present.	N		

Notes:



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**Woodstock, Lincoln, Easton, and Sugar Hill,
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File No: 04.0191410.39		WETLAND FUNCTION – VALUE EVALUATION FORM		Date: 11/8/2023	
Wetland ID: ET-68 PSS/EM1E/Fg/R4SB1, PFO1/4E/Fg				GZA Personnel: Peter Petkauskos (CWS), Tracy Tarr (CWS)	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No
Groundwater Recharge/Discharge	Y		4, 7, 12, 15	Wetland hydrology is supported by runoff, a seasonally high-water table, and an intermittent stream. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N
Floodflow Alteration	Y		3, 5, 6, 7, 9, 10, 13, 18	The wetland receives and retains overland sheet flow from surrounding uplands and contains an intermittent stream.	N
Fish and Shellfish Habitat	Y		1, 15, 16, 17	An intermittent stream is present. However, no permanently flooded habitat is present within the assessment area.	N
Sediment/Toxicant Retention	Y		4, 5, 10, 16	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention.	Y
Nutrient Removal	Y		3, 5, 6, 7, 8, 9	The wetland contains very poorly drained organic soils and dense emergent and scrub shrub vegetation.	Y
Production Export	Y		1, 4, 5, 7, 10	The wetland contains dense vegetation and export is occurring through wildlife use in the wetland.	N
Sediment/Shoreline Stabilization	Y		1, 2, 7, 12	A defined stream channel is present with dense emergent and scrub shrub vegetation.	N
Wildlife Habitat	Y		3, 4, 5, 7, 8, 13, 15	An intermittent stream is present in the assessment area. Overall plant diversity is low, however habitat diversity is present.	Y
Recreation		N	4, 5	There are no water-based recreational opportunities present.	N
Educational/Scientific Value		N	5	The wetland is located on private property. Safe access and parking suitable for school buses is not present.	N
Uniqueness/Heritage		N	4	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N
Visual Quality/Aesthetics	Y		1, 8	The wetland contains an intermittent stream	N
ES Endangered Species Habitat		N	Not Applicable	NHB has records of wood turtle in the larger landscape (see NHB memo dated NHB22-3463). However, suitable habitat is not present.	N

Notes:



X178 Transmission Line Structure Rebuild Project

**Woodstock, Lincoln, Easton, and Sugar Hill,
New Hampshire**

File No: 04.0191410.39		WETLAND FUNCTION – VALUE EVALUATION FORM		Date: 11/8/2023	
Wetland ID: ET-72.1 PSS/EM1E				GZA Personnel: Peter Petkauskos (CWS), Tracy Tarr (CWS)	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No
Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N
Floodflow Alteration	Y		5, 18	The wetland is located on a side slope.	N
Fish and Shellfish Habitat		N	Not Applicable	No permanently flooded habitat is present within the assessment area.	N
Sediment/Toxicant Retention	Y		4, 5	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention on a small scale.	N
Nutrient Removal	Y		3, 6, 7, 8, 9	The wetland contains dense emergent and scrub shrub vegetation.	N
Production Export	Y		1, 4, 7	The wetland contains dense vegetation and export is occurring through wildlife use.	N
Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N
Wildlife Habitat	Y		3, 4, 5, 7, 8, 13	Overall plant diversity is low.	N
Recreation		N	4, 5	There are no water-based recreational opportunities present.	N
Educational/Scientific Value		N	5	The wetland is located on private property. Safe access and parking suitable for school buses is not present.	N
Uniqueness/Heritage		N	Not Applicable	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N
Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N
ES Endangered Species Habitat		N	Not Applicable	NHB has records of wood turtle in the larger landscape (see NHB memo dated NHB22-3463). However, suitable habitat is not present.	N

Notes:



X178 Transmission Line Structure Rebuild Project

**Woodstock, Lincoln, Easton, and Sugar Hill,
New Hampshire**

File No: 04.0191410.39		WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 11/8/2023		
Wetland ID: ET-72 PSS/EM1E/Fg, PFO1/4E/Fg					GZA Personnel: Peter Petkauskos (CWS), Tracy Tarr (CWS)		
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No		
Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N		
Floodflow Alteration	Y		5, 6, 9, 18	The wetland accepts sheet flow from surrounding uplands.	N		
Fish and Shellfish Habitat		N	Not Applicable	No permanently flooded habitat is present within the assessment area.	N		
Sediment/Toxicant Retention	Y		4, 5	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention.	Y		
Nutrient Removal	Y		3, 5, 6, 7, 8, 9	The wetland contains very poorly drained organic soils and dense emergent and scrub shrub vegetation.	Y		
Production Export	Y		1, 4, 5, 7	The wetland contains dense vegetation and export is occurring through wildlife use.	N		
Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N		
Wildlife Habitat	Y		3, 4, 5, 7, 8, 13, 15	The wetland is located within highest ranked habitat in the region (see NH WAP Overlay). Habitat diversity is present.	Y		
Recreation		N	4, 5	There are no water-based recreational opportunities present.	N		
Educational/Scientific Value		N	5	The wetland is located on private property. Safe access and parking suitable for school buses is not present.	N		
Uniqueness/Heritage		N	Not Applicable	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N		
Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N		
ES Endangered Species Habitat		N	Not Applicable	NHB has records of wood turtle in the larger landscape (see NHB memo dated NHB22-3463). However, suitable habitat is not present.	N		

Notes:



X178 Transmission Line Structure Rebuild Project

Woodstock, Lincoln, Easton, and Sugar Hill,
New Hampshire

File No: 04.0191410.39	WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 11/8/2023	
Wetland ID: ET-76 PSS/EM1E				GZA Personnel: Peter Petkauskos (CWS), Tracy Tarr (CWS)	
Function/Value	Capability Y N	Rationale (Reference #)	Summary	Principal Yes/No	
Groundwater Recharge/Discharge	Y	4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N	
Floodflow Alteration	Y	5, 18	The wetland accepts sheet flow from surrounding uplands on a small scale.	N	
Fish and Shellfish Habitat		N	Not Applicable	N	
Sediment/Toxicant Retention	Y	4, 5	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention on a small scale.	N	
Nutrient Removal	Y	3, 6, 7, 8, 9	The wetland contains dense emergent and scrub shrub vegetation.	N	
Production Export	Y	1, 4, 7	The wetland contains dense vegetation and export is occurring through wildlife use.	N	
Sediment/Shoreline Stabilization		N	Not Applicable	N	
Wildlife Habitat	Y	3, 4, 5, 7, 8, 13	Overall plant diversity is low.	N	
Recreation		N	4, 5	There are no water-based recreational opportunities present.	N
Educational/Scientific Value		N	5	The wetland is located on private property. Safe access and parking suitable for school buses is not present.	N
Uniqueness/Heritage		N	Not Applicable	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N
Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N
ES Endangered Species Habitat		N	Not Applicable	NHB has records of wood turtle in the larger landscape (see NHB memo dated NHB22-3463). However, suitable habitat is not present.	N

Notes:



X178 Transmission Line Structure Rebuild Project













**Woodstock, Lincoln, Easton, and Sugar Hill,
New Hampshire**

File No: 04.0191410.39		WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 11/8/2023	
Wetland ID: ET-77 PSS/EM1E					GZA Personnel: Peter Petkauskos (CWS), Tracy Tarr (CWS)	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No	
Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N	
Floodflow Alteration	Y		5, 18	The wetland accepts sheet flow from surrounding uplands on a small scale.	N	
Fish and Shellfish Habitat		N	Not Applicable	No permanently flooded habitat is present within the assessment area.	N	
Sediment/Toxicant Retention	Y		4, 5	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention on a small scale.	N	
Nutrient Removal	Y		3, 6, 7, 8, 9	The wetland contains dense emergent and scrub shrub vegetation.	N	
Production Export	Y		1, 4, 7	The wetland contains dense vegetation and export is occurring through wildlife use.	N	
Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N	
Wildlife Habitat	Y		3, 4, 5, 7, 8, 13	Overall plant diversity is low.	N	
Recreation		N	4, 5	There are no water-based recreational opportunities present.	N	
Educational/Scientific Value		N	5	The wetland is located on private property. Safe access and parking suitable for school buses is not present.	N	
Uniqueness/Heritage		N	Not Applicable	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N	
Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N	
ES Endangered Species Habitat		N	Not Applicable	NHB has records of wood turtle in the larger landscape (see NHB memo dated NHB22-3463). However, suitable habitat is not present.	N	

Notes:



X178 Transmission Line Structure Rebuild Project
Woodstock, Lincoln, Easton, and Sugar Hill,
New Hampshire

File No: 04.0191410.39		WETLAND FUNCTION – VALUE EVALUATION FORM		Date: 11/8/2023	
Wetland ID: ET-83.1 PSS/EM/FO1E/R4SB5				GZA Personnel: Peter Petkauskos (CWS), Tracy Tarr (CWS)	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No
 Groundwater Recharge/Discharge	Y		4, 7, 12, 15	Wetland hydrology is supported by runoff, a seasonally high-water table, and an intermittent stream. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N
 Floodflow Alteration	Y		3, 5, 6, 7, 9, 10, 13, 18	The wetland receives and retains overland sheet flow from surrounding uplands and contains an intermittent stream.	N
 Fish and Shellfish Habitat	Y		1, 15, 16, 17	An intermittent stream is present. However, no permanently flooded habitat is present within the assessment area.	N
 Sediment/Toxicant Retention	Y		4, 5, 10, 16	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention.	Y
 Nutrient Removal	Y		3, 5, 7, 8, 9	The wetland contains dense emergent and scrub shrub vegetation.	N
 Production Export	Y		1, 4, 5, 7, 8, 10	The wetland contains dense vegetation and export is occurring through wildlife use in the wetland.	N
 Sediment/Shoreline Stabilization	Y		1, 2, 7, 12	A defined stream channel is present with dense emergent and scrub shrub vegetation.	N
 Wildlife Habitat	Y		3, 4, 5, 7, 8, 13, 15	An intermittent stream is present in the assessment area. Overall plant diversity is low, however habitat diversity is present.	Y
 Recreation		N	4, 5	There are no water-based recreational opportunities present.	N
 Educational/Scientific Value		N	5	The wetland is located on private property. Safe access and parking suitable for school buses is not present.	N
 Uniqueness/Heritage		N	4	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N
 Visual Quality/Aesthetics	Y		8	The wetland contains an intermittent stream.	N
ES Endangered Species Habitat		N	Not Applicable	NHB has records of wood turtle in the larger landscape (see NHB memo dated NHB22-3463). However, suitable habitat is not present.	N

Notes:



X178 Transmission Line Structure Rebuild Project

Woodstock, Lincoln, Easton, and Sugar Hill,
New Hampshire

File No: 04.0191410.39		WETLAND FUNCTION – VALUE EVALUATION FORM		Date: 11/8/2023	
Wetland ID: ET-83 PSS/EM/FO1E				GZA Personnel: Peter Petkauskos (CWS), Tracy Tarr (CWS)	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No
Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N
Floodflow Alteration	Y		5, 6, 9, 18	The wetland accepts sheet flow from surrounding uplands.	N
Fish and Shellfish Habitat		N	Not Applicable	No permanently flooded habitat is present within the assessment area.	N
Sediment/Toxicant Retention	Y		4, 5	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention.	Y
Nutrient Removal	Y		3, 6, 7, 8, 9	The wetland contains dense emergent and scrub shrub vegetation.	N
Production Export	Y		1, 4, 7, 8	The wetland contains dense vegetation and export is occurring through wildlife use.	N
Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N
Wildlife Habitat	Y		3, 4, 5, 7, 8, 13, 15	Overall plant diversity is low, however habitat diversity is present.	Y
Recreation		N	4, 5	There are no water-based recreational opportunities present.	N
Educational/Scientific Value		N	5	The wetland is located on private property. Safe access and parking suitable for school buses is not present.	N
Uniqueness/Heritage		N	4	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N
Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N
ES Endangered Species Habitat		N	Not Applicable	NHB has records of wood turtle in the larger landscape (see NHB memo dated NHB22-3463). However, suitable habitat is not present.	N

Notes:



X178 Transmission Line Structure Rebuild Project

Woodstock, Lincoln, Easton, and Sugar Hill,
New Hampshire

File No: 04.0191410.39		WETLAND FUNCTION – VALUE EVALUATION FORM		Date: 11/8/2023	
Wetland ID: ET-86.1 PEM/SS1E				GZA Personnel: Peter Petkauskos (CWS), Tracy Tarr (CWS)	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No
Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N
Floodflow Alteration	Y		5, 18	The wetland accepts sheet flow from surrounding uplands on a small scale.	N
Fish and Shellfish Habitat		N	Not Applicable	No permanently flooded habitat is present within the assessment area.	N
Sediment/Toxicant Retention	Y		4, 5	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention on a small scale.	N
Nutrient Removal	Y		3, 6, 7, 8, 9	The wetland contains dense emergent and scrub shrub vegetation.	N
Production Export	Y		1, 4, 7	The wetland contains dense vegetation and export is occurring through wildlife use.	N
Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N
Wildlife Habitat	Y		3, 4, 5, 7, 8, 13	Overall plant diversity is low.	N
Recreation		N	4, 5	There are no water-based recreational opportunities present.	N
Educational/Scientific Value		N	5	The wetland is located on private property. Safe access and parking suitable for school buses is not present.	N
Uniqueness/Heritage		N	Not Applicable	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N
Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N
ES Endangered Species Habitat		N	Not Applicable	NHB has records of wood turtle in the larger landscape (see NHB memo dated NHB22-3463). However, suitable habitat is not present.	N

Notes:



X178 Transmission Line Structure Rebuild Project

**Woodstock, Lincoln, Easton, and Sugar Hill,
New Hampshire**

File No: 04.0191410.39		WETLAND FUNCTION – VALUE EVALUATION FORM			Date: 11/8/2023	
Wetland ID: ET-86 PSS/EM1E, PFO1E					GZA Personnel: Peter Petkauskos (CWS), Tracy Tarr (CWS)	
Function/Value	Capability Y N		Rationale (Reference #)	Summary	Principal Yes/No	
Groundwater Recharge/Discharge	Y		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N	
Floodflow Alteration	Y		5, 6, 9, 18	The wetland accepts sheet flow from surrounding uplands.	N	
Fish and Shellfish Habitat		N	Not Applicable	No permanently flooded habitat is present within the assessment area.	N	
Sediment/Toxicant Retention	Y		4, 5	The wetland contains dense vegetation suitable for sediment/toxicant detention and retention.	Y	
Nutrient Removal	Y		3, 6, 7, 8, 9	The wetland contains dense emergent and scrub shrub vegetation.	N	
Production Export	Y		1, 4, 7, 8	The wetland contains dense vegetation and export is occurring through wildlife use.	N	
Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are associated with the wetland.	N	
Wildlife Habitat	Y		3, 4, 5, 7, 8, 13, 15	The wetland is located within highest ranked habitat in the region (see NH WAP Overlay). Habitat diversity is present within the wetland.	Y	
Recreation		N	4, 5	There are no water-based recreational opportunities present.	N	
Educational/Scientific Value		N	5	The wetland is located on private property. Safe access and parking suitable for school buses is not present.	N	
Uniqueness/Heritage		N	4	The wetland is not known to contain exemplary communities and is not designated as a prime wetland.	N	
Visual Quality/Aesthetics		N	8	The wetland does not contain open water or emergent marsh vistas.	N	
ES Endangered Species Habitat		N	Not Applicable	NHB has records of wood turtle in the larger landscape (see NHB memo dated NHB22-3463). However, suitable habitat is not present.	N	

Notes:



Figure 1 – Locus Plan

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOTECHNICAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR THE USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

X178-2 TRANSMISSION LINE
REBUILD & OPGW PROJECT
EASTON, NEW HAMPSHIRE

LOCUS PLAN

PREPARED BY:  **GZA** GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:

EVERSOURCE
ENERGY

PROJ MGR: TLT	REVIEWED BY: DMZ	CHECKED BY: TLT	FIG 1
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE: 1:24,000	
DATE: October 15, 2024	PROJECT NO. 04.0191410.39	REVISION NO.	

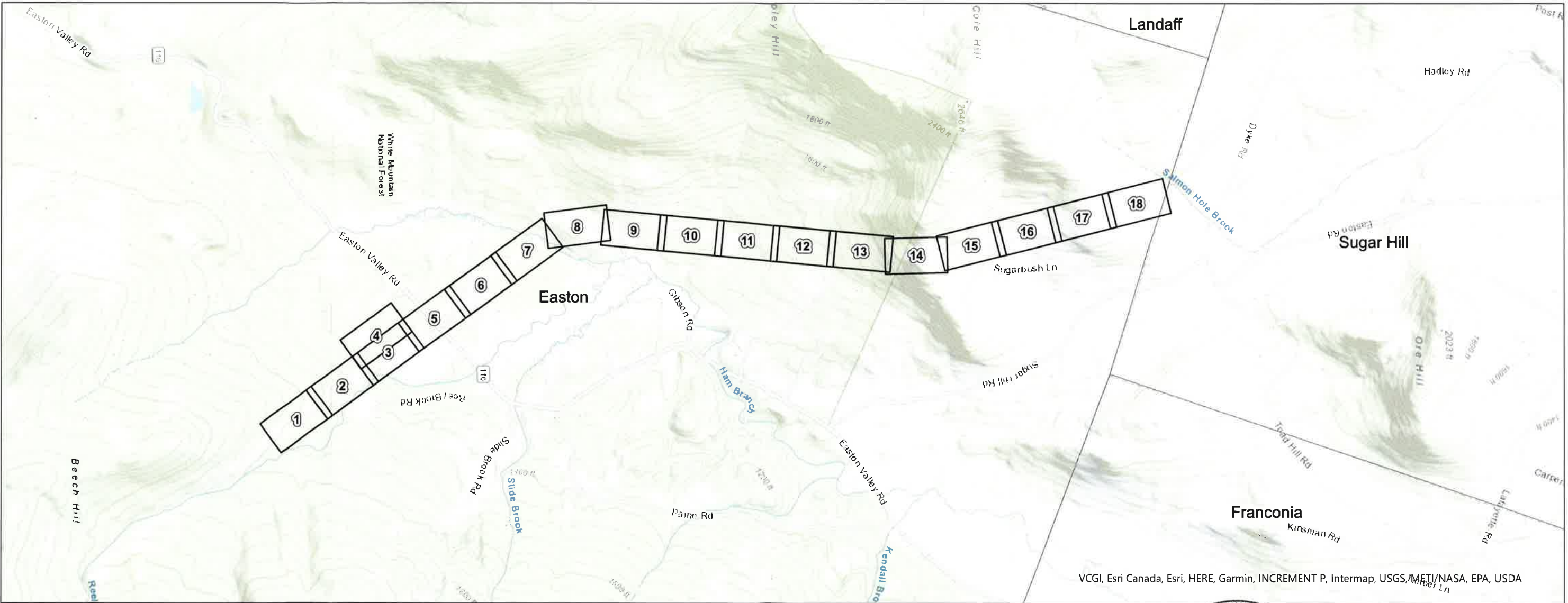


Figure 2 – Access and Permitting Plans

X178-2 Transmission Line Structure Rebuild Project

**EASTON, NEW HAMPSHIRE
Town of Easton Access and Permitting Plans**

Date: November 12, 2024



VCGL, Esri Canada, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA

PREPARED FOR:

EVERSOURCE
ENERGY

13 Legends Drive
Hooksett, NH 03106



0 0.17 0.35 0.7 Miles

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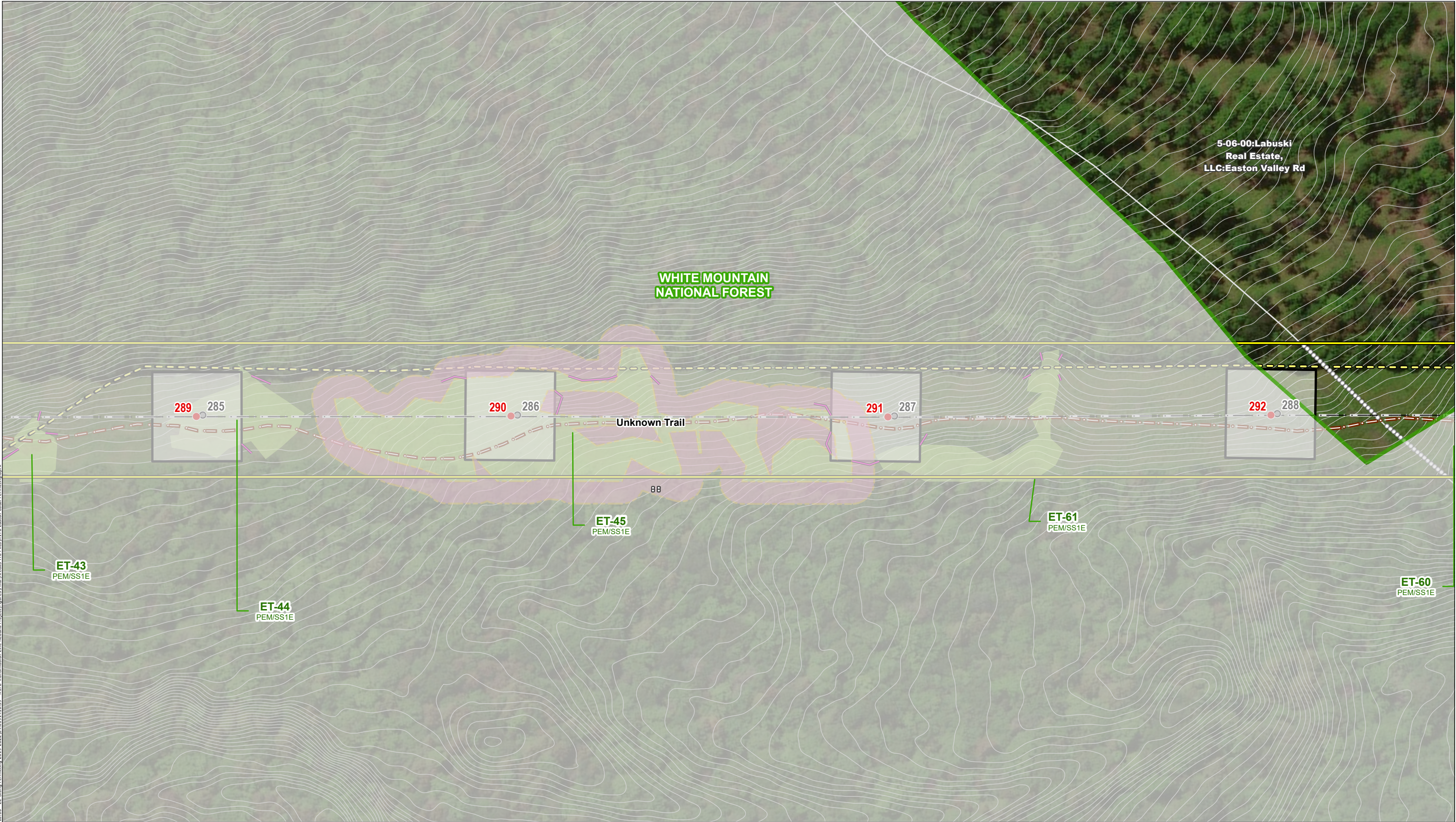
NO.	DATE	REVISIONS



PREPARED BY:



GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com



INDEX MAP

- PROPOSED STRUCTURE
- STRUCTURE TO BE REMOVED
- EXISTING STRUCTURE - NO WORK
- PROPOSED LAYDOWN AREA
- WHITE MOUNTAIN NATIONAL FOREST BOUNDARY
- GATE
- CULVERT

- TRANSMISSION LINE
- TRANSMISSION LINE ROW
- EXTENT OF WETLAND DELINEATION
- TEMPORARY UPLAND MATTING
- TEMPORARY WETLAND MATTING
- WETLAND BUFFER IMPACTS
- LOCAL WETLAND BUFFER

- STONEWALL
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- TOWN MAINTAINED ROAD
- PARCEL BOUNDARY
- VERY POORLY DRAINED SOILS
- FIELD DELINEATED WETLAND
- 2FT CONTOURS
- PERIMETER CONTROLS (SILT FENCE, SILT FENCE WITH HAY BALE, OR STRAW WATTLE)
- TOWN BOUNDARY

1 in = 100 ft

NO.	DATE	REVISIONS

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.

EVERSOURCE
ENERGY

**X178 Transmission Line
Structure Rebuild Project
Access and Permitting Plans**

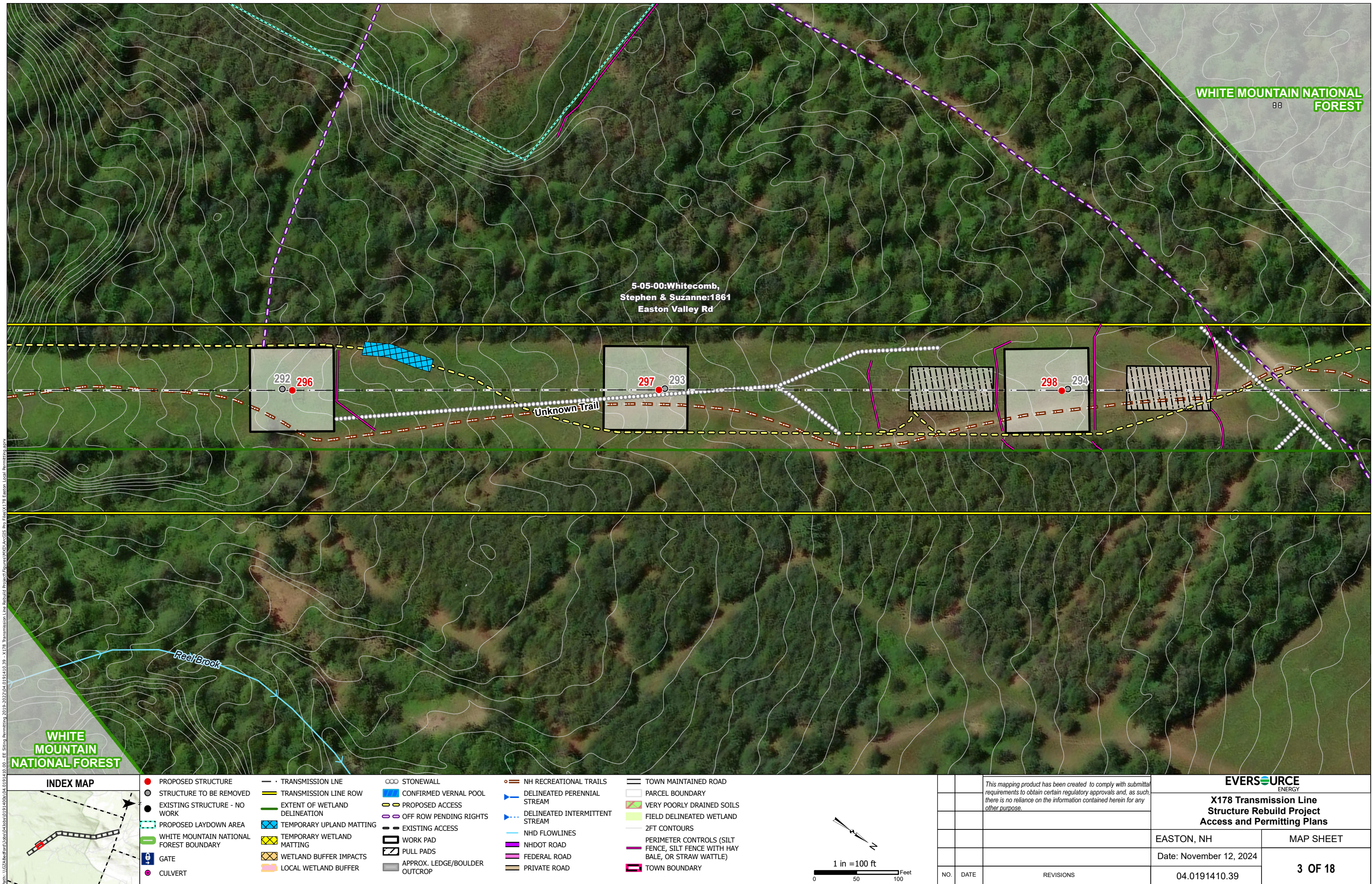
EASTON, NH

Date: November 12, 2024

04.0191410.39

MAP SHEET

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- PROPOSED STRUCTURE
- STRUCTURE TO BE REMOVED
- EXISTING STRUCTURE - NO WORK
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- TOWN BOUNDARY

1 in = 100 ft

NO.	DATE	REVISIONS

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.

EVERSOURCE
ENERGY

**X178 Transmission Line
Structure Rebuild Project
Access and Permitting Plans**

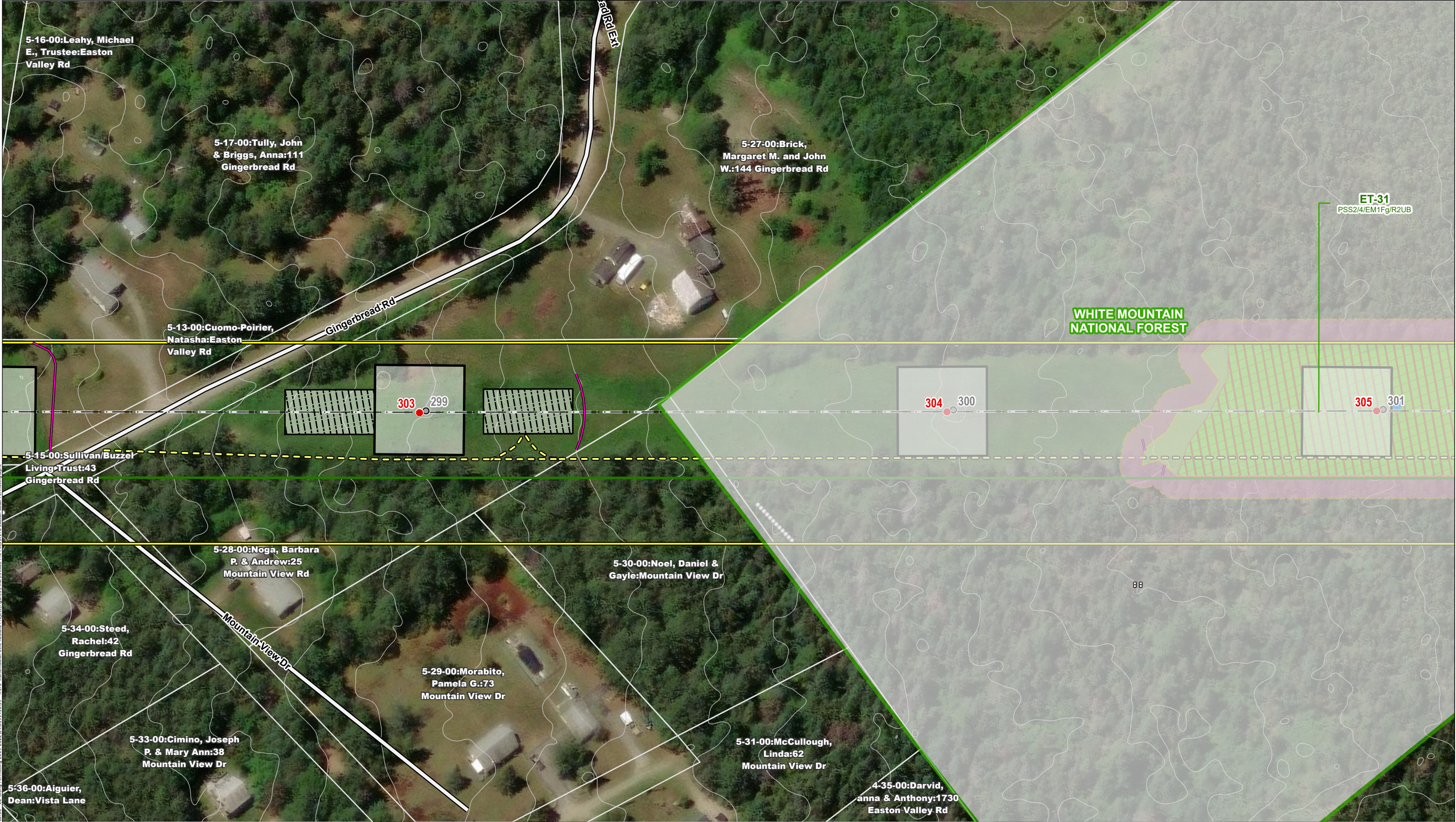
EASTON, NH

Date: November 12, 2024

04.0191410.39

MAP SHEET

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Path: \\G24-Berford\Users\j042505\0191410.39 - X178 Transmission Line Rebuild Project\Figures\X178 ArcGIS Pro Files\X178 Easton Local Permittin...
EE Siting Permitting 2019-2022\04.0191410.39 - X178 Transmission Line Rebuild Project\Figures\X178 ArcGIS Pro Files\X178 Easton Local Permittin...

INDEX MAP

●

PROPOSED STRUCTURE

○

STRUCTURE TO BE REMOVED

●

EXISTING STRUCTURE - NO WORK

PROPOSED LAYDOWN AREA

WHITE MOUNTAIN NATIONAL FOREST BOUNDARY

GATE

CULVERT

TRANSMISSION LINE

TRANSMISSION LINE ROW

EXTENT OF WETLAND DELINEATION

TEMPORARY UPLAND MATTING

TEMPORARY WETLAND MATTING

WETLAND BUFFER IMPACTS

LOCAL WETLAND BUFFER

STONEWALL

CONFIRMED VERNAL POOL

PROPOSED ACCESS

OFF ROW PENDING RIGHTS

EXISTING ACCESS

WORK PAD

PULL PADS

APPROX. LEDGE/BOULDER OUTCROP

NH RECREATIONAL TRAILS

DELINEATED PERENNIAL STREAM

DELINEATED INTERMITTENT STREAM

NHD FLOWLINES

NHDOT ROAD

FEDERAL ROAD

PRIVATE ROAD

TOWN MAINTAINED ROAD

PARCEL BOUNDARY

VERY POORLY DRAINED SOILS

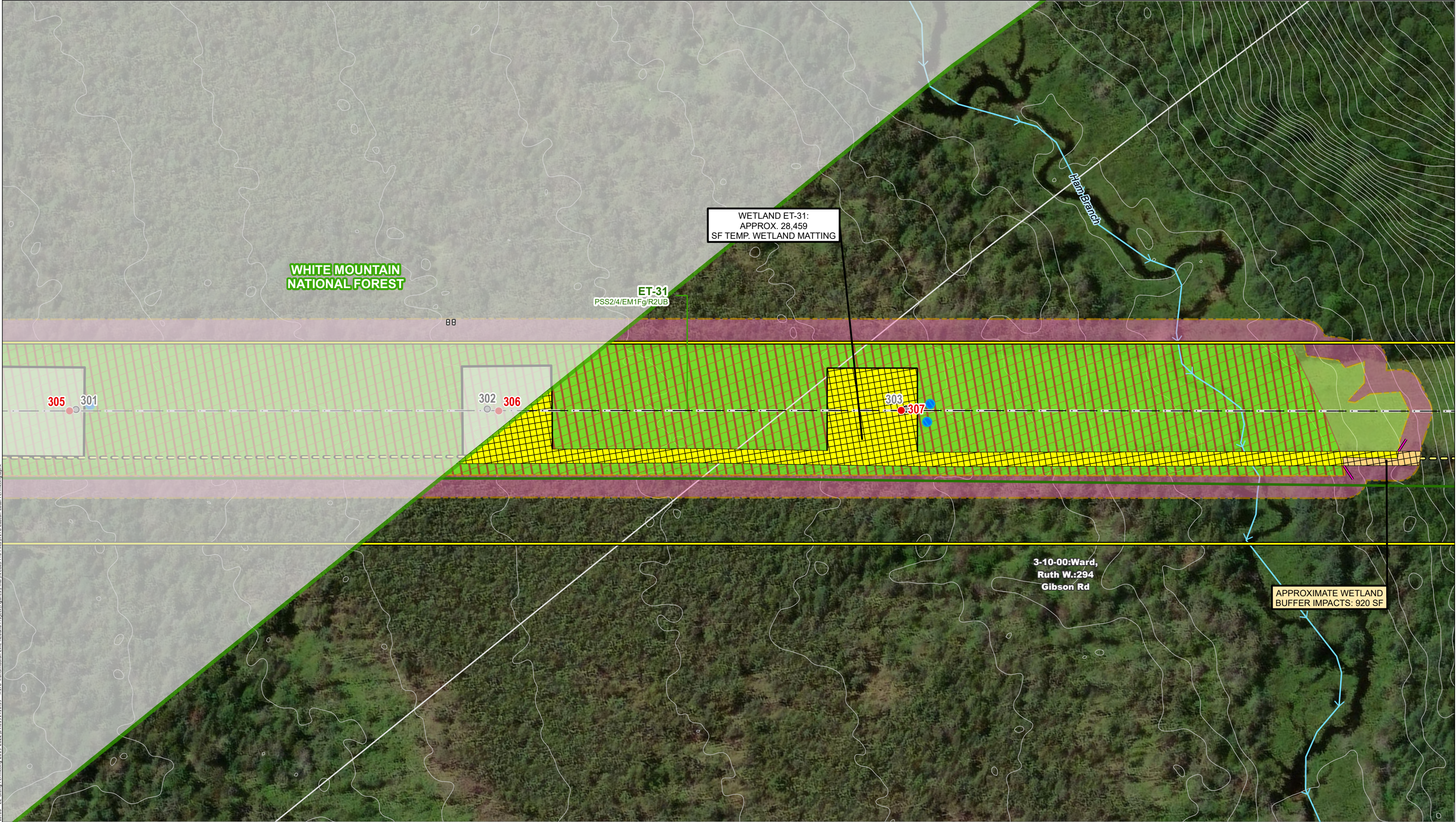
FIELD DELINEATED WETLAND

2FT CONTOURS

PERIMETER CONTROLS (SILT FENCE, SILT FENCE WITH HAY BALE, OR STRAW WATTLE)

TOWN BOUNDARY

1 in = 100 ft



INDEX MAP

PROPOSED STRUCTURE

STRUCTURE TO BE REMOVED

EXISTING STRUCTURE - NO WORK

PROPOSED LAYDOWN AREA

WHITE MOUNTAIN NATIONAL FOREST BOUNDARY

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TRANSMISSION LINE

TRANSMISSION LINE ROW

EXTENT OF WETLAND DELINEATION

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VERY POORLY DRAINED SOILS

FIELD DELINEATED WETLAND

2FT CONTOURS

PERIMETER CONTROLS (SILT FENCE, SILT FENCE WITH HAY BALE, OR STRAW WATTLE)

TOWN BOUNDARY

1 in = 100 ft

0 50 100 Feet

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NO.	DATE	REVISIONS

EVERSOURCE

ENERGY

X178 Transmission Line

Structure Rebuild Project

Access and Permitting Plans

EASTON, NH

Date: November 12, 2024

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- PERIMETER CONTROLS (SILT FENCE, SILT FENCE WITH HAY BALE, OR STRAW WATTLE)
- TOWN BOUNDARY

1 in = 100 ft

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EVERSOURCE
ENERGY

**X178 Transmission Line
Structure Rebuild Project
Access and Permitting Plans**

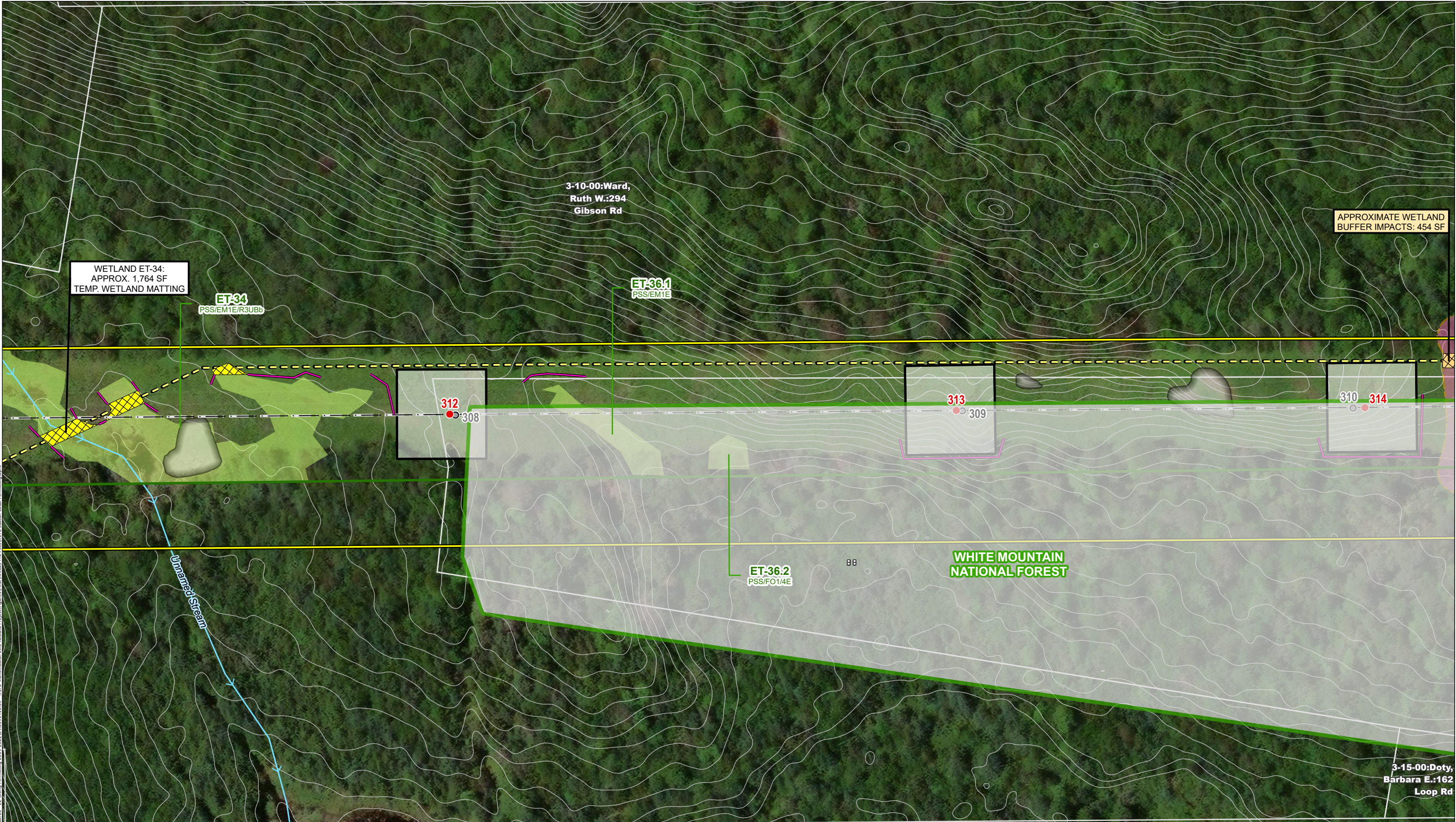
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1 in = 100 ft

0 50 100 Feet

North Arrow

NO.	DATE	REVISIONS

EVERSOURCE ENERGY

X178 Transmission Line Structure Rebuild Project Access and Permitting Plans

EASTON, NH

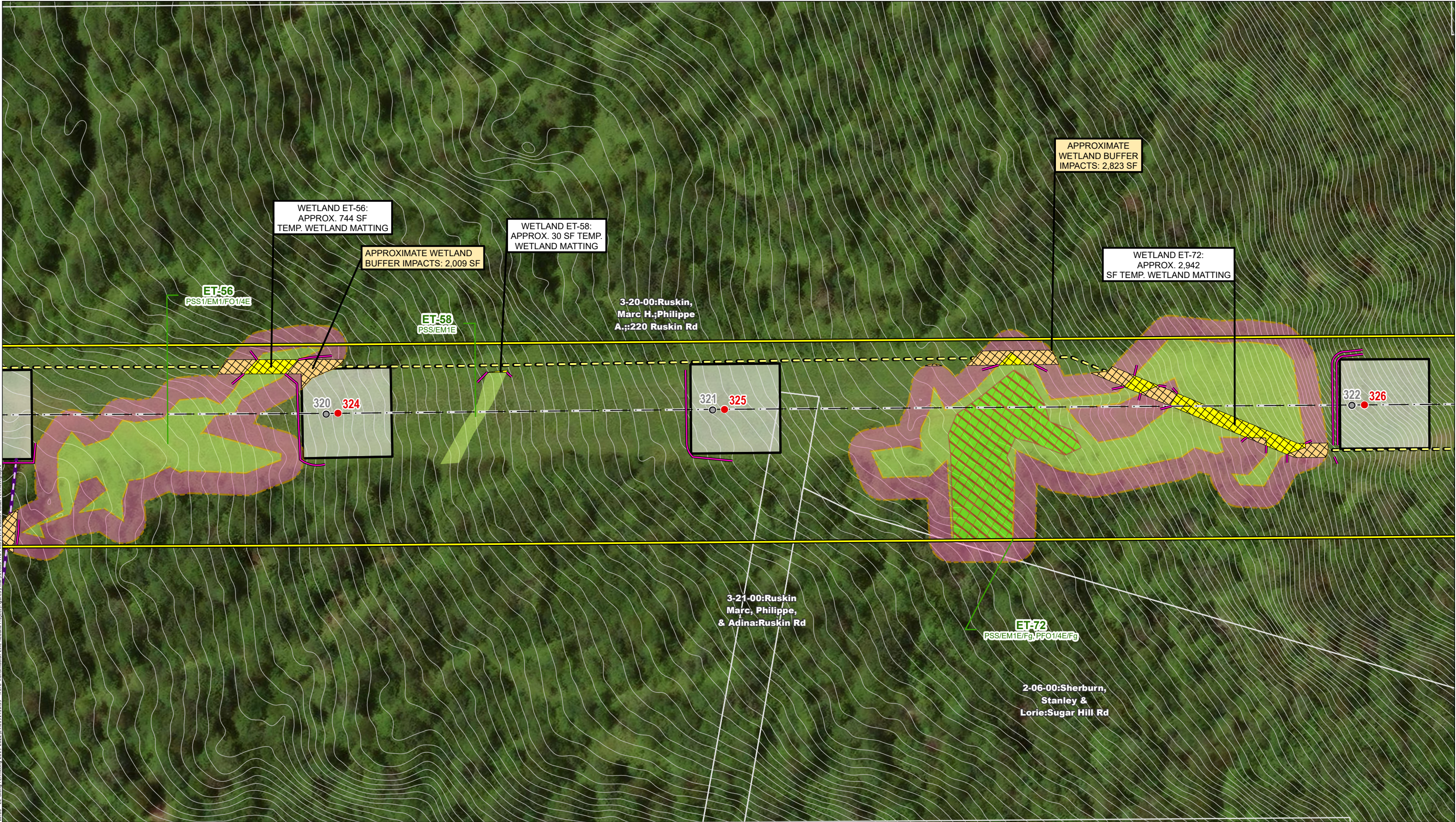
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TOWN BOUNDARY

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1 in =100 ft

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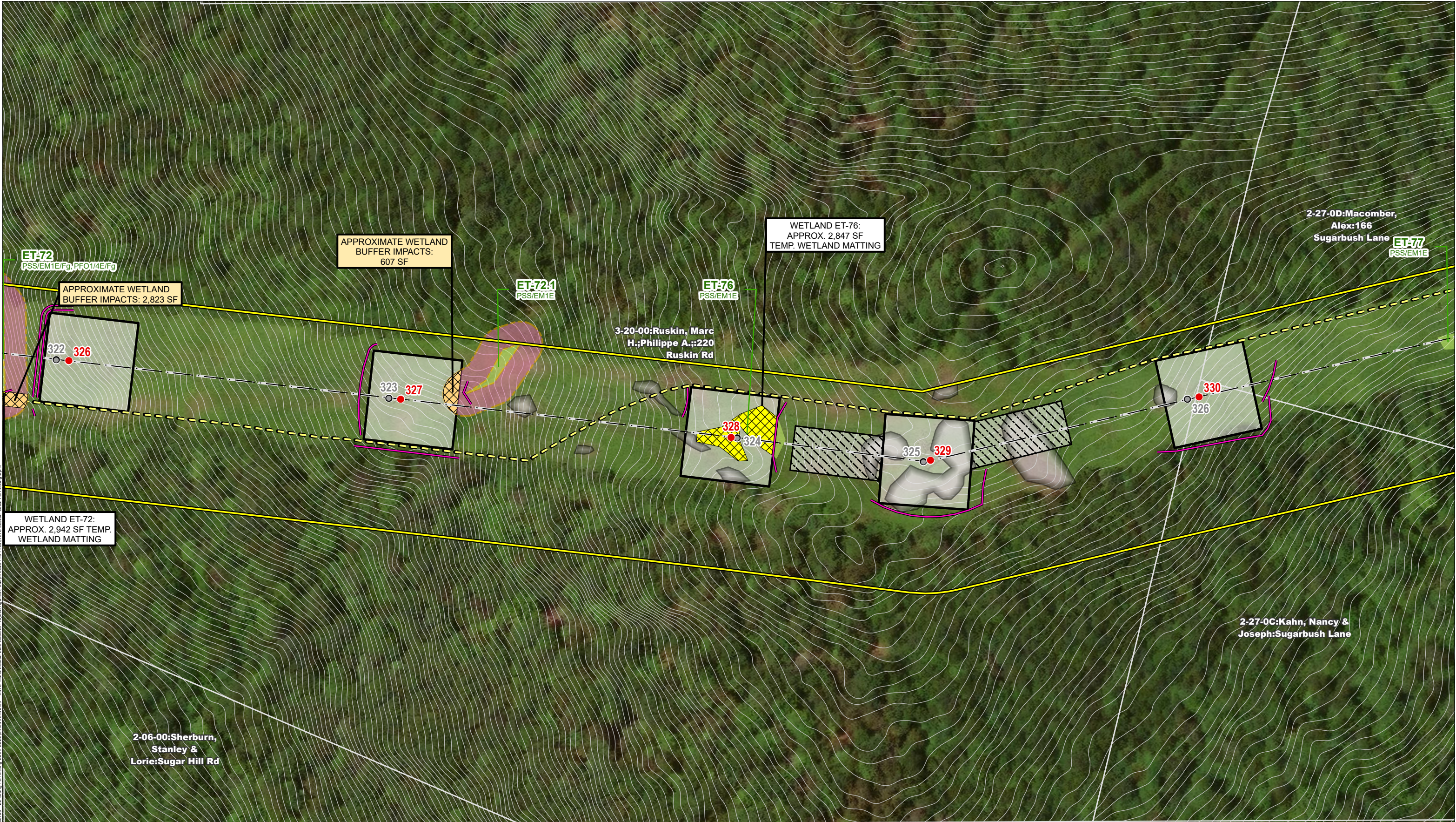
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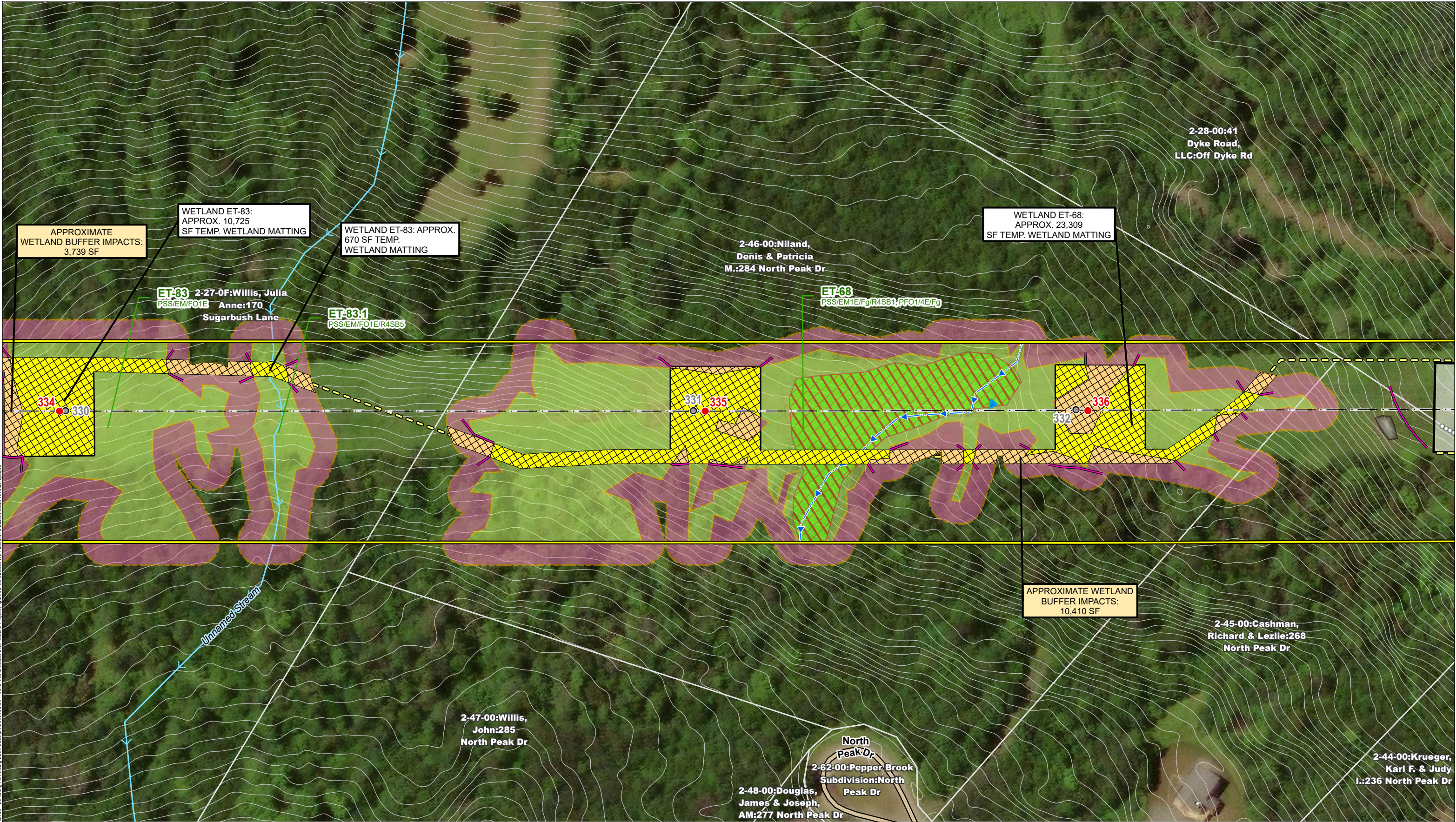
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0 50 100 Feet

North

Peak Dr

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X178 Transmission Line Structure Rebuild Project

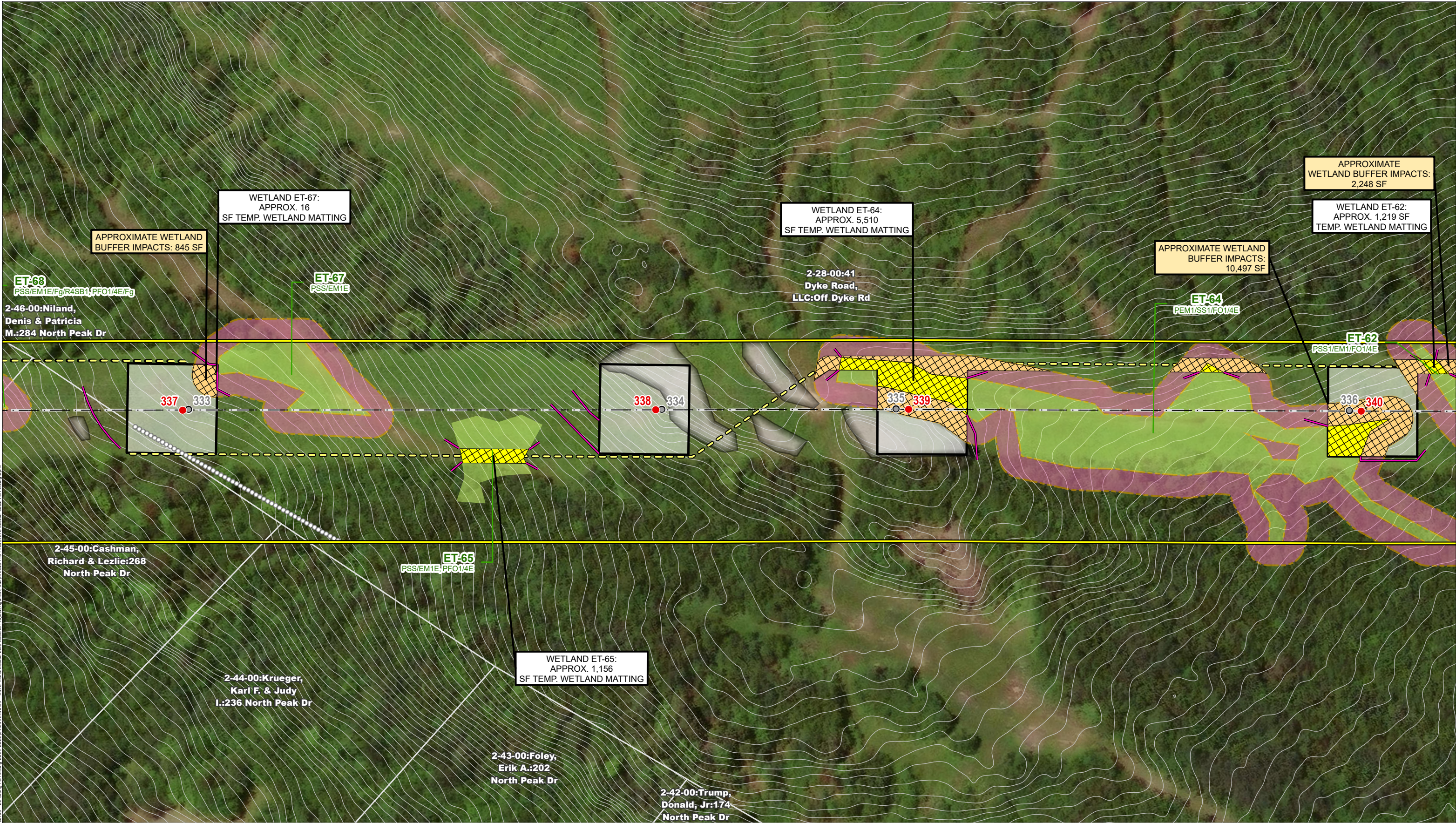
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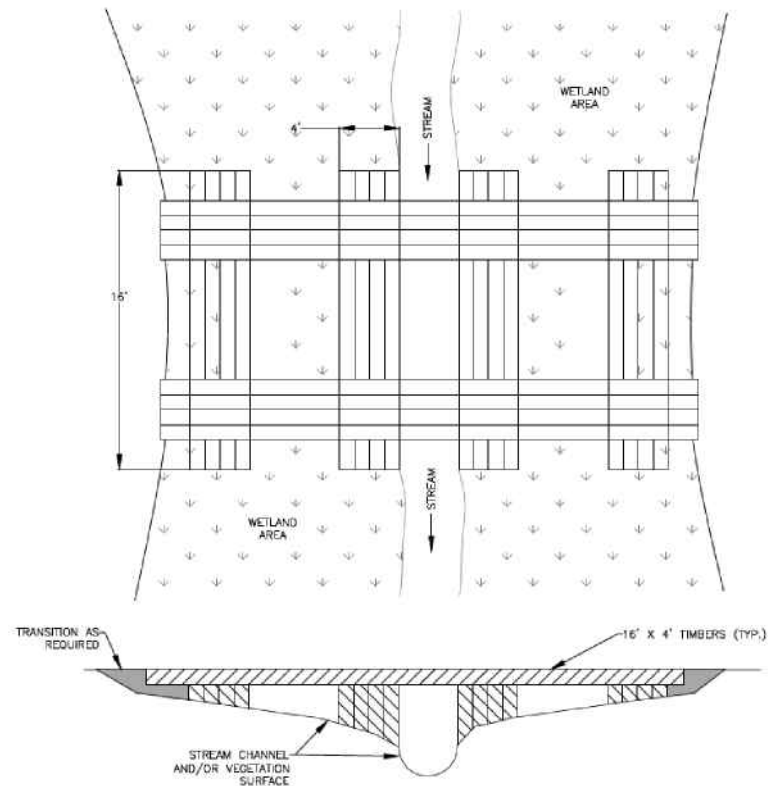
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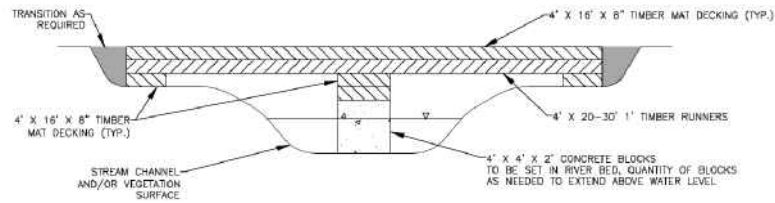
<p>PRESENT A PROPERTY BOUNDARY SURVEY.</p> <p>REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER 260 PRACTICES MANUAL FOR UTILITY MAINTENANCE RELATIVE TO INVASIVE SPECIES.</p> <p>AREA SHALL BE DISTURBED DURING ONE TIME BEFORE DISTURBED AREAS ARE THE FOLLOWING HAS OCCURRED: LISHED INSTALLED ALLED.</p> <p>NCES SHALL BE COMPLETE PRIOR TO THE BE USED DURING CONSTRUCTION AND TION COVER. EROSION CONTROL MEASURES WATER RAINFALL EVENTS.</p> <p>ES, SEDIMENT TRAPS, ETC. TO PREVENT</p> <p>SUCH A MANNER AS TO MINIMIZE EXISTING VEGETATION, AND DAMAGE TO COL GRINDINGS WILL BE NECESSARY TO</p> <p>CTION, AND STABILIZED WITH BMPS.</p> <p>THE GROWING SEASON ENDS. WHEN SEEDED EARLY SPRING TO MAY 20 OR FROM AUGUST 15 D DURING WINTER MONTHS, PLANT SUITABLE</p> <p>E MATTING. MATTING WITH WELDED PLASTIC OR ED.</p> <p>HALL REMAIN IN PLACE UNTIL DISTURBED SURFACES LL NOT EXPERIENCE ACCELERATED OR UNNATURAL VER USIN AN EROSION CONTROL SEED MIX.</p>			
<p>UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND NOT TO BE REPRODUCED, COPIED, OR ALTERED AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.</p>			
<h2 style="margin: 0;">X178-2 TRANSMISSION LINE REBUILD AND OPGW PROJECT</h2> <p style="font-size: 1.2em; margin: 5px 0;">Easton, New Hampshire</p>			
<h1 style="margin: 0;">NOTES</h1>			
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: 	
PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	DATE: 05/15/2024
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	REVISION NO.
05/15/2024		04.0191410.39	

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<p>UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR THE USE CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS. WITHOUT THE PRIOR EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.</p>			
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<p>NOTES</p>			
<p>PREPARED BY:</p> <div style="display: flex; align-items: center;"> <div> <p>GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com</p> </div> </div>		<p>PREPARED FOR:</p> <div style="display: flex; align-items: center;"> </div>	
<p>PROJ MGR: LEW</p>	<p>REVISED BY: TLT</p>	<p>CHECKED BY: DMZ</p>	<p>SHEET</p>
<p>DESIGNED BY: MJD</p>	<p>DRAWN BY: MJD</p>	<p>SCALE:</p>	
<p>DATE: 05/15/2024</p>	<p>PROJECT NO. 04.0191410.39</p>	<p>REVISION NO.</p>	

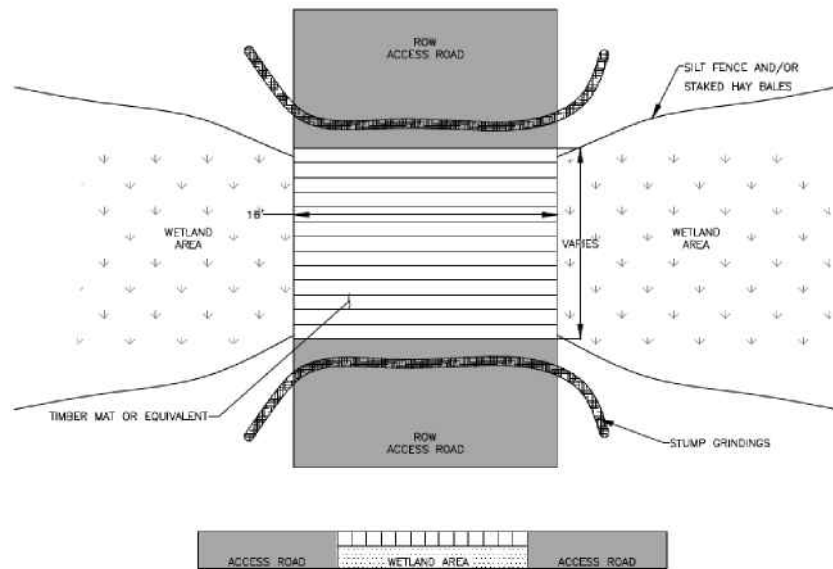
© 2024 - GZA GeoEnvironmental, Inc. \GZA\Bedford\Jobs\04\Jobs\019141000\04_0191410.00 - EE Sting Permitting 2019-2022\04_0191410.39 - X178 Transmission Line Rebuild Project\Figures\MXD\Notesheets\Notesheet 2 - REV Oct 2023.mxd, 3/21/2024, 12:43:06 PM, lindsey.white



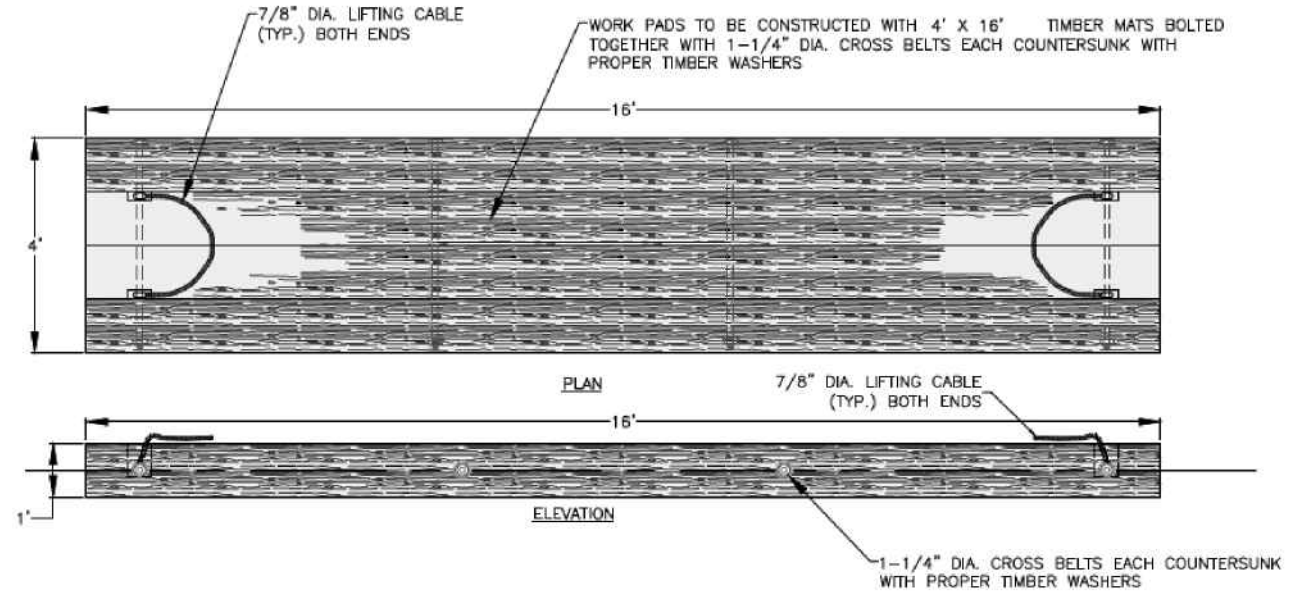
TYPICAL STREAM CROSSING
NOT TO SCALE



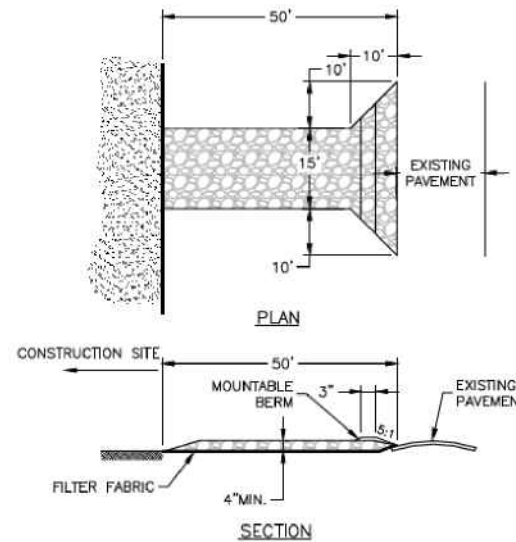
ALTERNATE STREAM CROSSING
NOT TO SCALE



TYPICAL WETLAND CROSSING
NOT TO SCALE



TYPICAL TIMBER MAT DETAIL
NOT TO SCALE



TEMPORARY CONSTRUCTION ENTRANCE / EXIT
NOT TO SCALE

NOTES

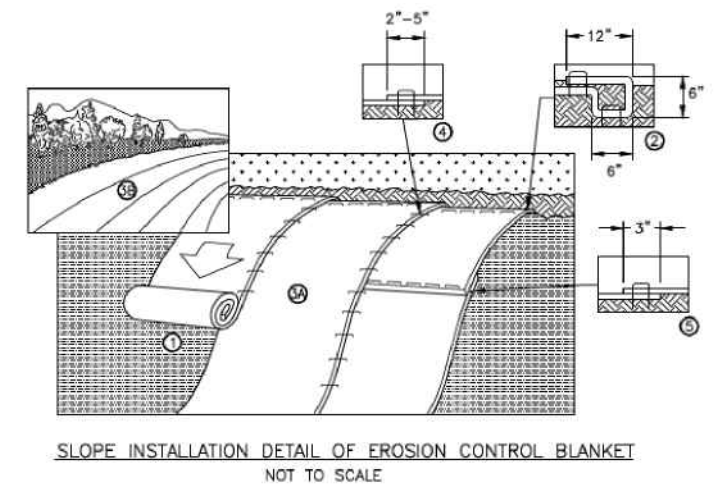
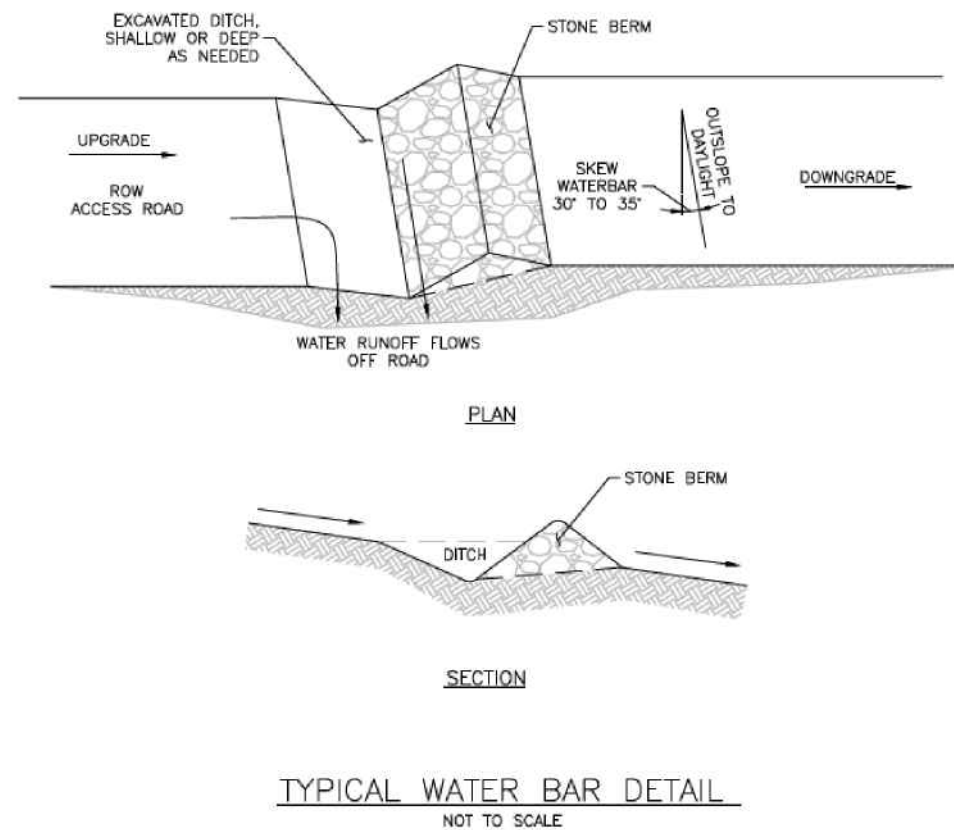
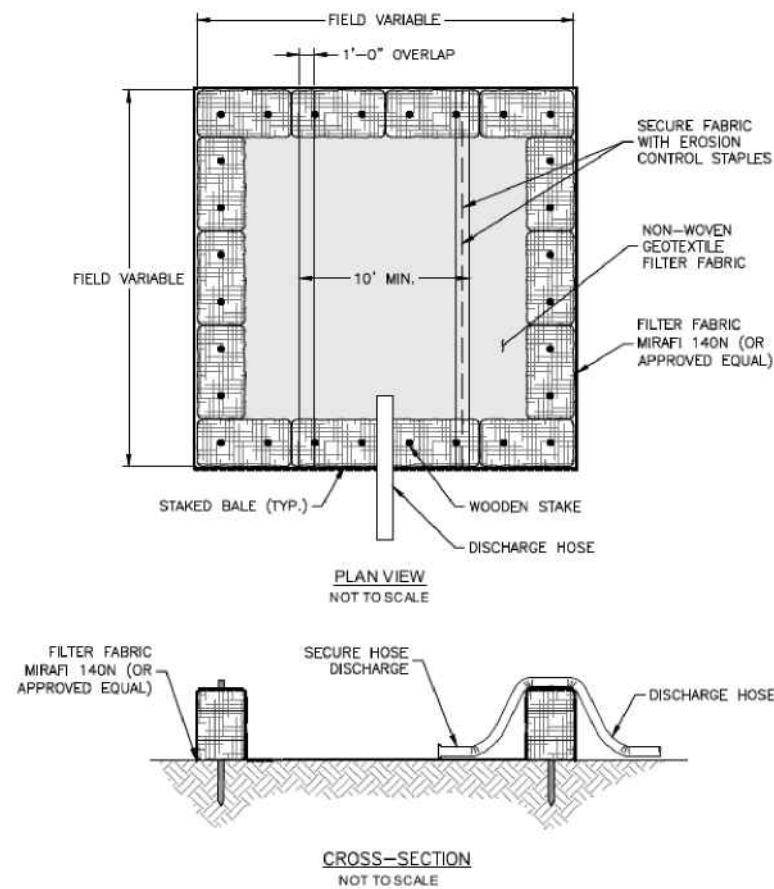
1. STONE SIZE - USE 2" STONE (MINIMUM) TO 6" STONE (MAXIMUM).
2. LENGTH - GREATER THAN OR EQUAL TO 50 FEET WITH THICKNESS OF 4".
3. WIDTH - FIFTEEN (15) FOOT TYP., BUT NOT LESS THAN FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
4. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS ENTRANCE. IF PIPING IS IMPRACTICAL, MOUNTABLE BERM SHALL BE PERMITTED.
5. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING AND ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
6. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED.
7. THE CLEAN STONE SHOULD BE INSTALLED OVER A GEOTEXTILE FABRIC. GEOTEXTILE FABRIC MAY BE OMITTED FOR PERMANENT CONSTRUCTION ENTRANCES-EXITS ON A CASE-BY-CASE BASIS WITH THE APPROVAL OF THE NATIONAL GRID ENVIRONMENTAL.
8. FOLLOWING CONSTRUCTION, THE CONSTRUCTION ENTRANCE / EXIT SHALL BE REMOVED AND THE AREA GRADED, SEEDED, AND MULCHED AS NEEDED. ENTRANCE / EXITS MAY REMAIN DEPENDING UPON FUTURE ACCESS NEEDS AND / OR PROJECT-SPECIFIC APPROVALS BUT REQUIRES APPROVALS FROM THE NATIONAL GRID ENVIRONMENTAL AND PROPERTY LEGAL.

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X178-2 TRANSMISSION LINE REBUILD
AND OPGW PROJECT
Easton, New Hampshire

BMP DETAILS

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: EVERSOURCE ENERGY	
PROJ MGR: CEM	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET S2
DESIGNED BY: HP	DRAWN BY: LEW	SCALE:	
DATE: 4/4/2024	PROJECT NO. 04.0191410.39	REVISION NO.	

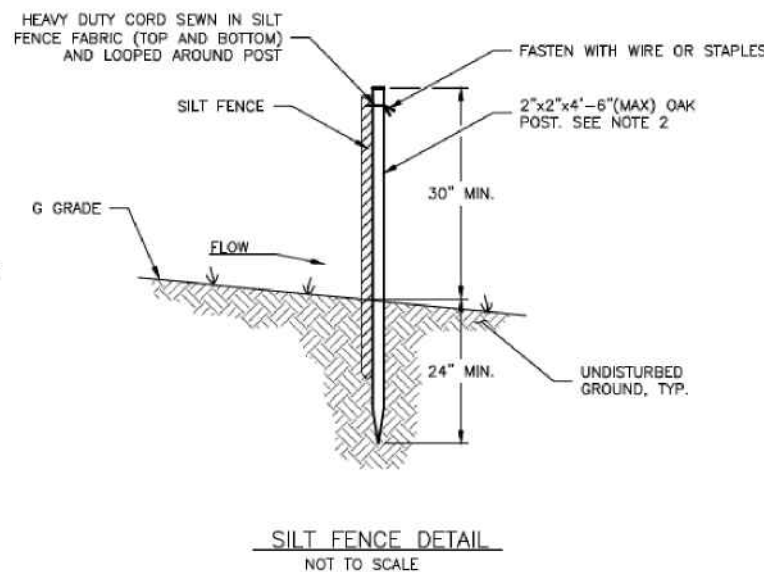
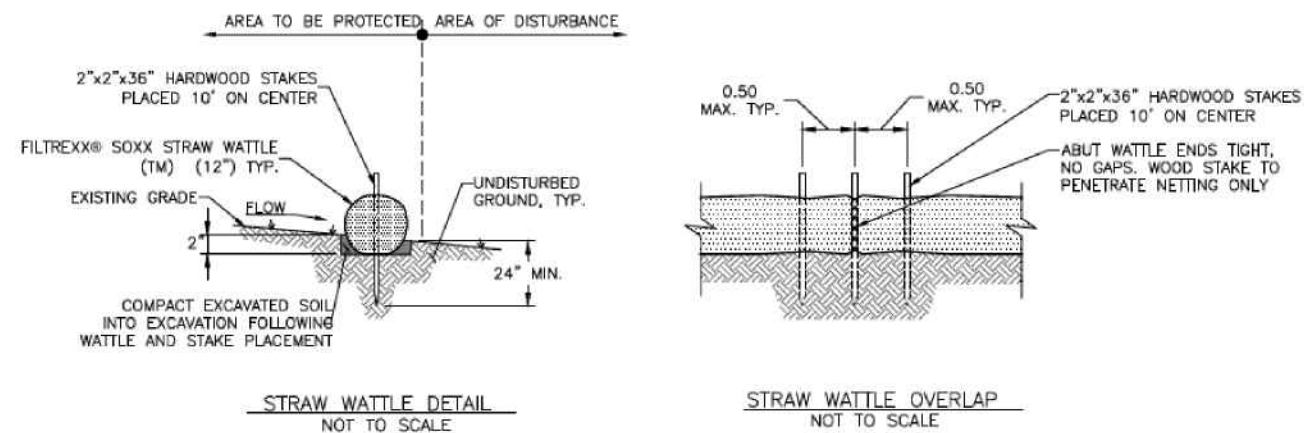


- NOTES:

1. EROSION CONTROL BLANKET SHOULD BE INSTALLED VERTICALLY DOWNSLOPE.
2. STAKES/STAPLES SHOULD BE PLACED NO MORE THAN 3 FT. APART VERTICALLY AND 1 FT. APART HORIZONTALLY.
3. SLOPE SURFACES SHOULD BE FREE OF DEBRIS, INCLUDING STICKS, ROCKS AND OTHER OBSTRUCTIONS.
4. BLANKETS SHOULD BE ROLLED OUT LOOSELY AND STAKED/STAPLED TO MAINTAIN DIRECT SOIL CONTACT. DO NOT STRETCH THE BLANKETS.
5. DESIGNER/ENGINEER SHALL CHOOSE THE TYPE OF BLANKET OR MATTING DEPENDING ON SPECIFIC OBJECTIVES AND SITE CONDITIONS.

INSTALLATION NOTES:

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's). INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP's IN A 6" (15cm) DEEP x 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF RECP's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE RECP's.
3. ROLL THE RECP's (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE(™). WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm - 12.5cm) OVERLAP DEPENDING ON RECP's TYPE.
5. CONSECUTIVE RECP's SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE RECP's WIDTH.



- ## NOTES

1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH NEW HAMPSHIRE ENV-WQ 1506 STANDARDS.
2. SILT FENCE SHOULD BE INSTALLED "TIGHT" AGAINST SILT FENCE. THOROUGHLY COMPACT EXCAVATED SOILS BACK INTO TRENCH AFTER INSTALLATION OF EROSION CONTROL DEVICE. SILT FENCE FABRIC SHALL NOT BE SLIT. STANDARD 9.1.0 POST SHALL BE DRIVEN THROUGH SILT FENCE FABRIC. 2"x4'-6"(MAX) O.C. IN WETLAND AREAS AND 4'-0"(MAX) O.C. IN WETLAND RAVINE GULLY OR DROP OFF AREAS AS SHOWN ON PLANS.
3. 1"x1" x 4'-6"(MIN) POSTS PERMITTED FOR PREFABRICATED SILT FENCE.
4. SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.

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X178-2 TRANSMISSION LINE REBUILD
AND OPGW PROJECT
Easton, New Hampshire

BMP DETAILS

PREPARED BY:

 **GZA** GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:

EVERSOURCE
ENERGY

PROJ MGR:	LEW
DESIGNED BY:	HP
DATE:	4/4/2024

REVIEWED BY:	TLT
DRAWN BY:	LEW
PROJECT NO.	04 0191410 39

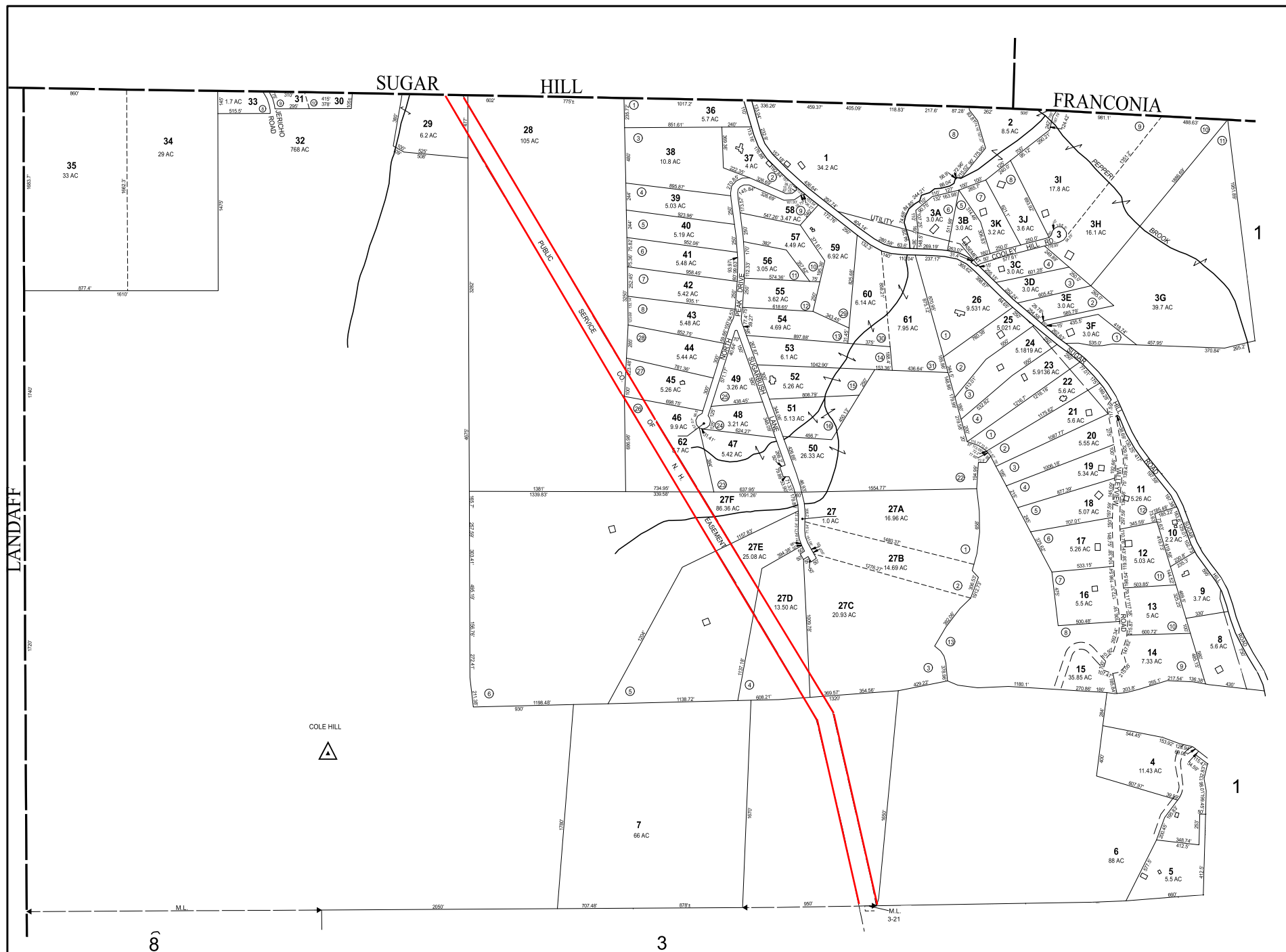
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SCALE:	
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SHEET

S3



Figure 3 – Tax Map



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THE HORIZONTAL DATUM IS THE NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM, NAD 83.

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AREA Ac
RECORD DIMENSION 100'
SCALED DIMENSION 100'
MATCH LINE M.L.
WATER W.

LEGEND

EXEMPT PROPERTY E
SUBDIVISION LOT NO. L
RIGHT OF WAY/ACCESS R
COMMON OWNERSHIP C
WETLANDS W

FEET
400 200 0 200 400 600 800 1,200

SCALE: 1" = 400'

METERS
100 50 0 100 200 300

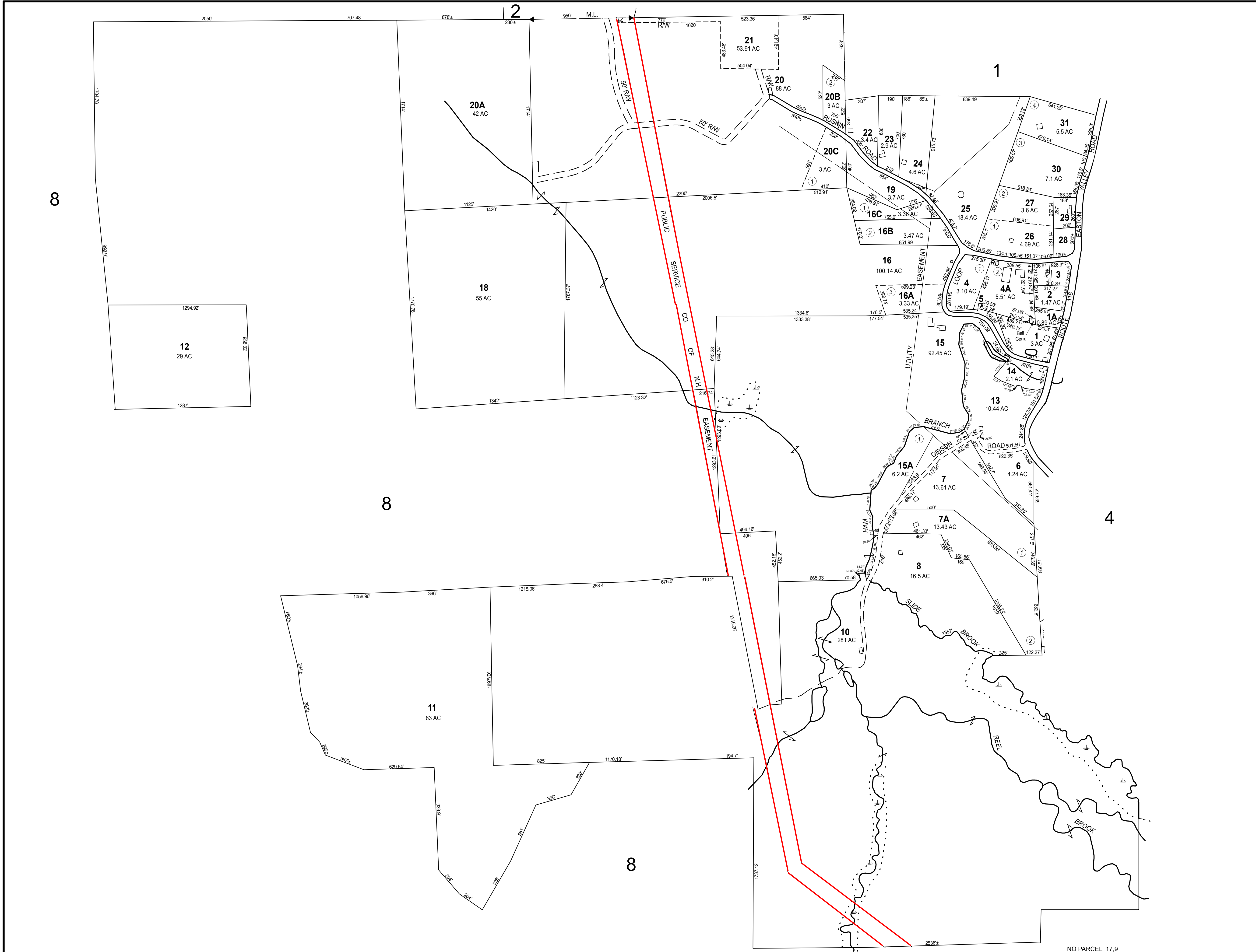
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PROPERTY MAPS

EASTON

NEW HAMPSHIRE

MAP NO. **2**



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AREA	Ac
RECORD DIMENSION	100'
SCALED DIMENSION	100'±
MATCH LINE	M.L.
WATER	-W-

LEGEND

EXEMPT PROPERTY (E)

SUBDIVISION LOT NO. (2)

RIGHT OF WAY/ACCESS RW

COMMON OWNERSHIP OR

WETLANDS (W)

FEET 400 200 0 400 800 1,200

SCALE: 1" = 400'

METERS 100 50 0 100 200 300

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PROPERTY MAPS

EASTON

NEW HAMPSHIRE

MAP NO. **3**



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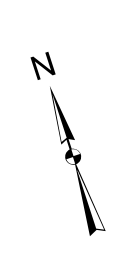
AREA Ac
RECORD DIMENSION 100'
SCALED DIMENSION 100'±
MATCH LINE M.L.
WATER -W-

LEGEND

EXEMPT PROPERTY (E)
SUBDIVISION LOT NO. (2)
RIGHT OF WAY/ACCESS RW
COMMON OWNERSHIP OR
WETLANDS W

FEET 400 200 0 400 800 1,200
SCALE: 1" = 400'
METERS 100 50 0 100 200 300
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PROPERTY MAPS
EASTON
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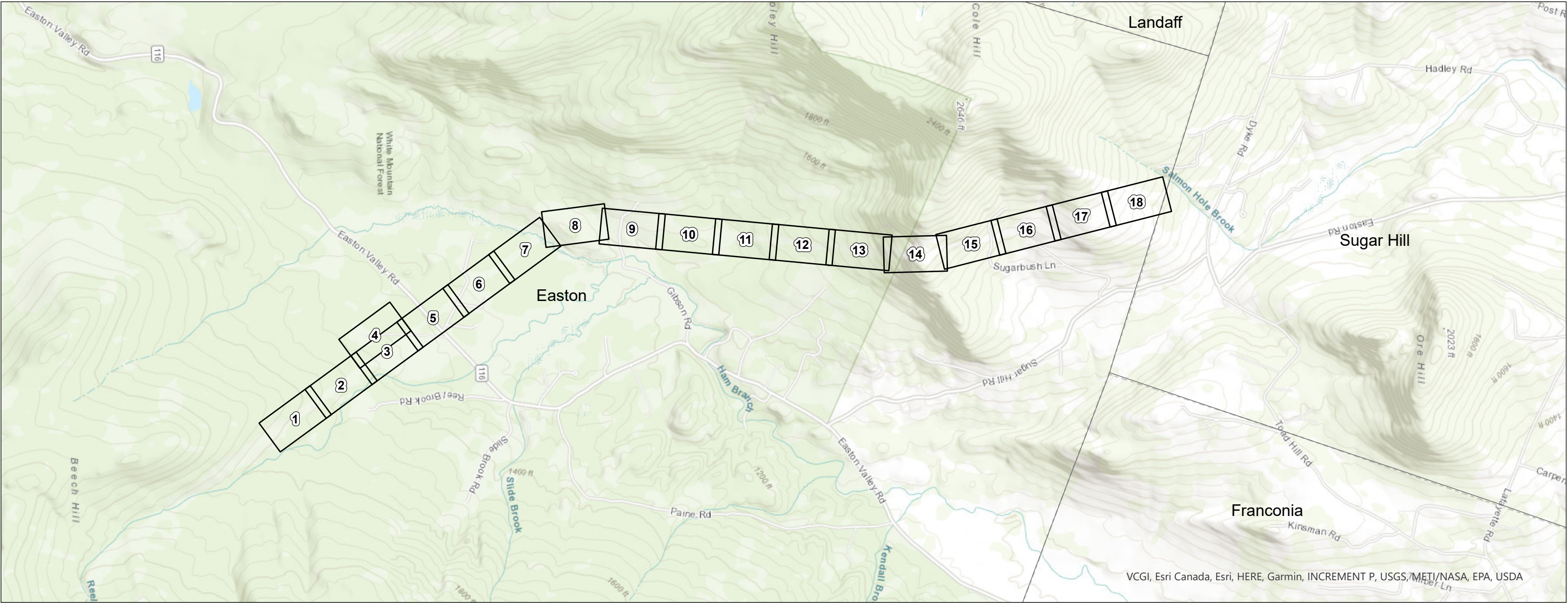
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Figure 4 – Soils Overview

X178-2 Transmission Line Structure Rebuild Project

EASTON, NEW HAMPSHIRE
Town of Easton NRCS Soils Overlay

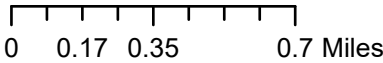
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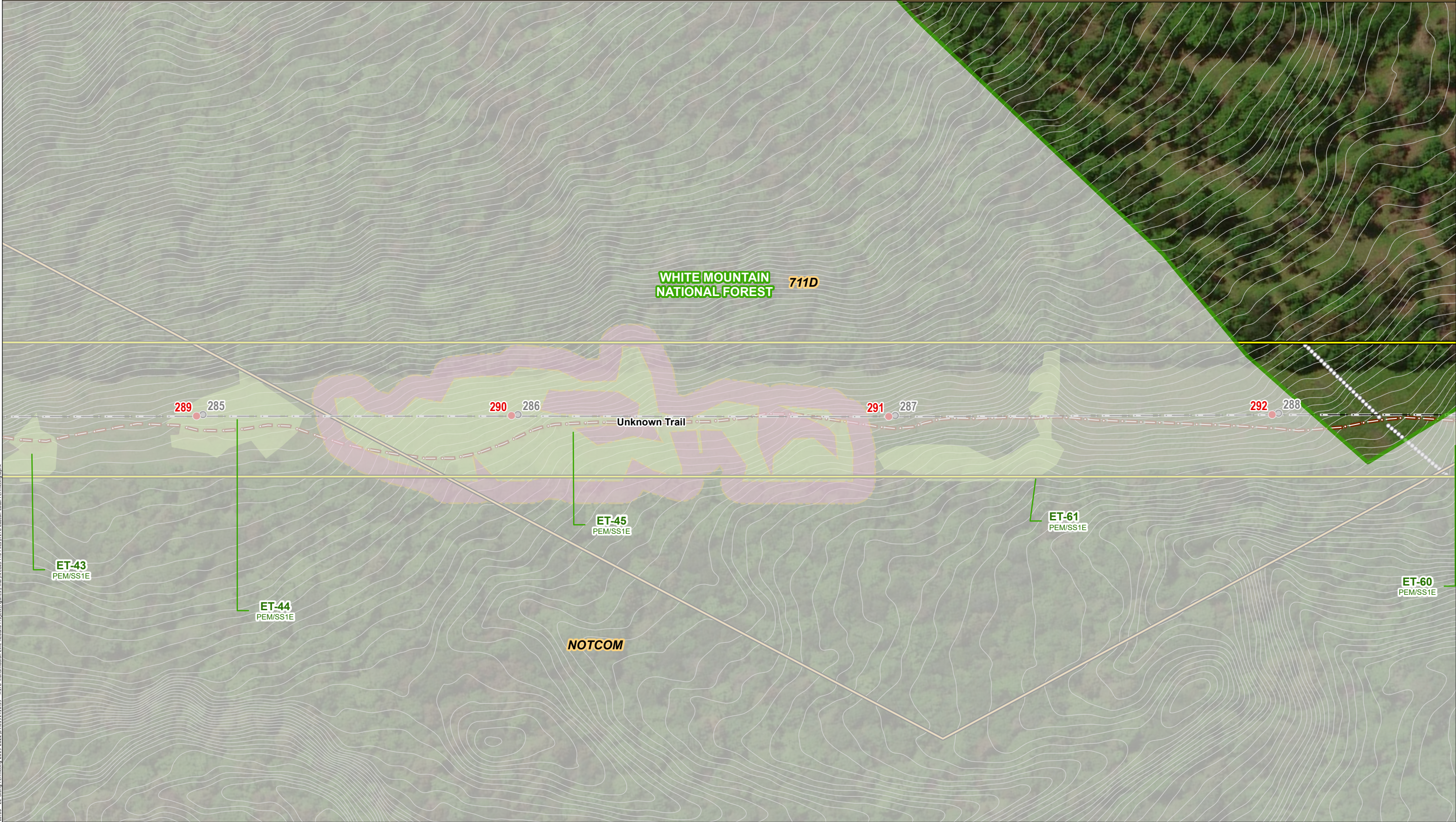
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PREPARED BY:

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Engineers and Scientists
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FIELD DELINEATED WETLAND

2FT CONTOURS

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254C SOIL CLASSIFICATION

1 in = 100 ft

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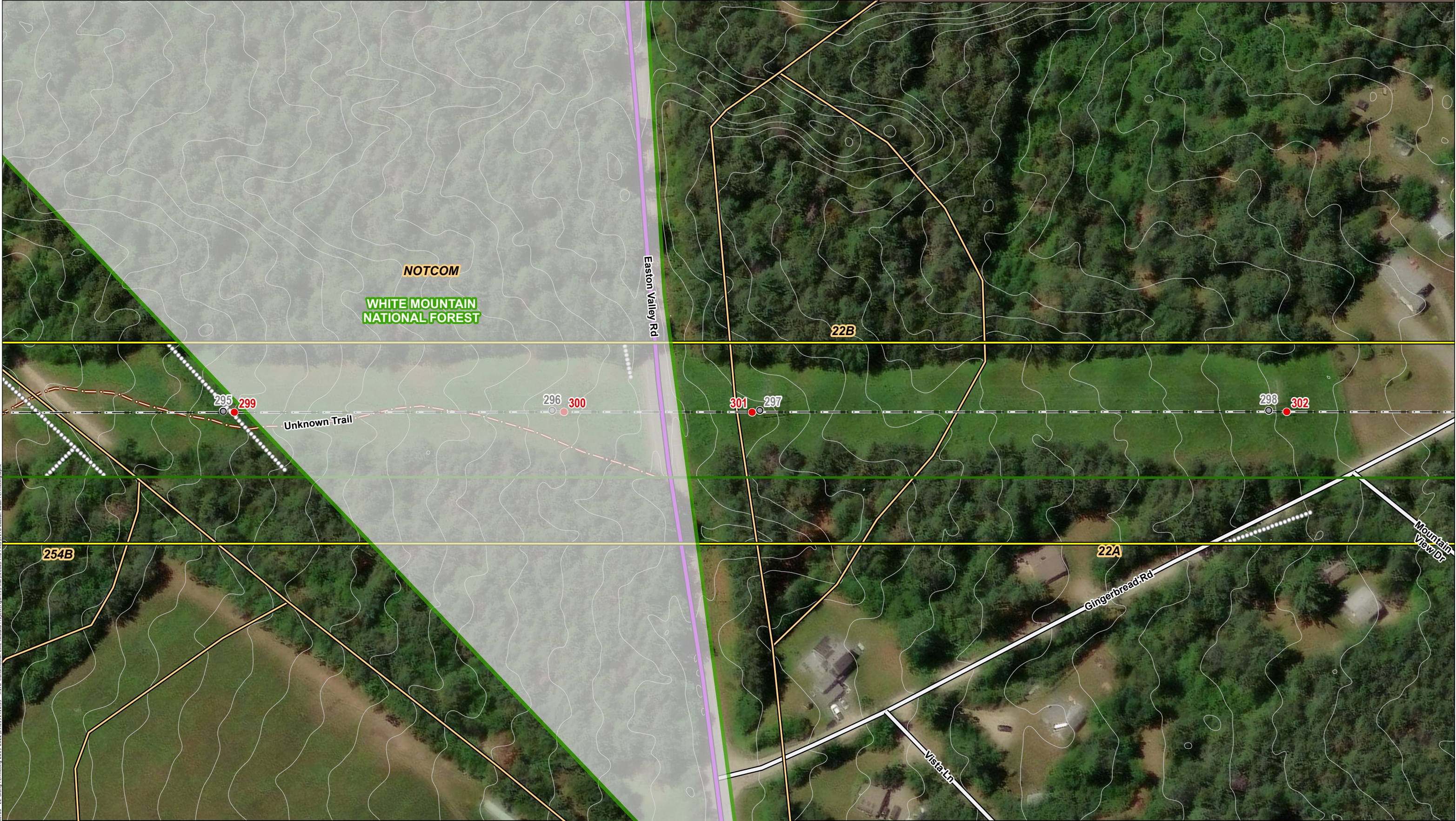
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1 in = 100 ft

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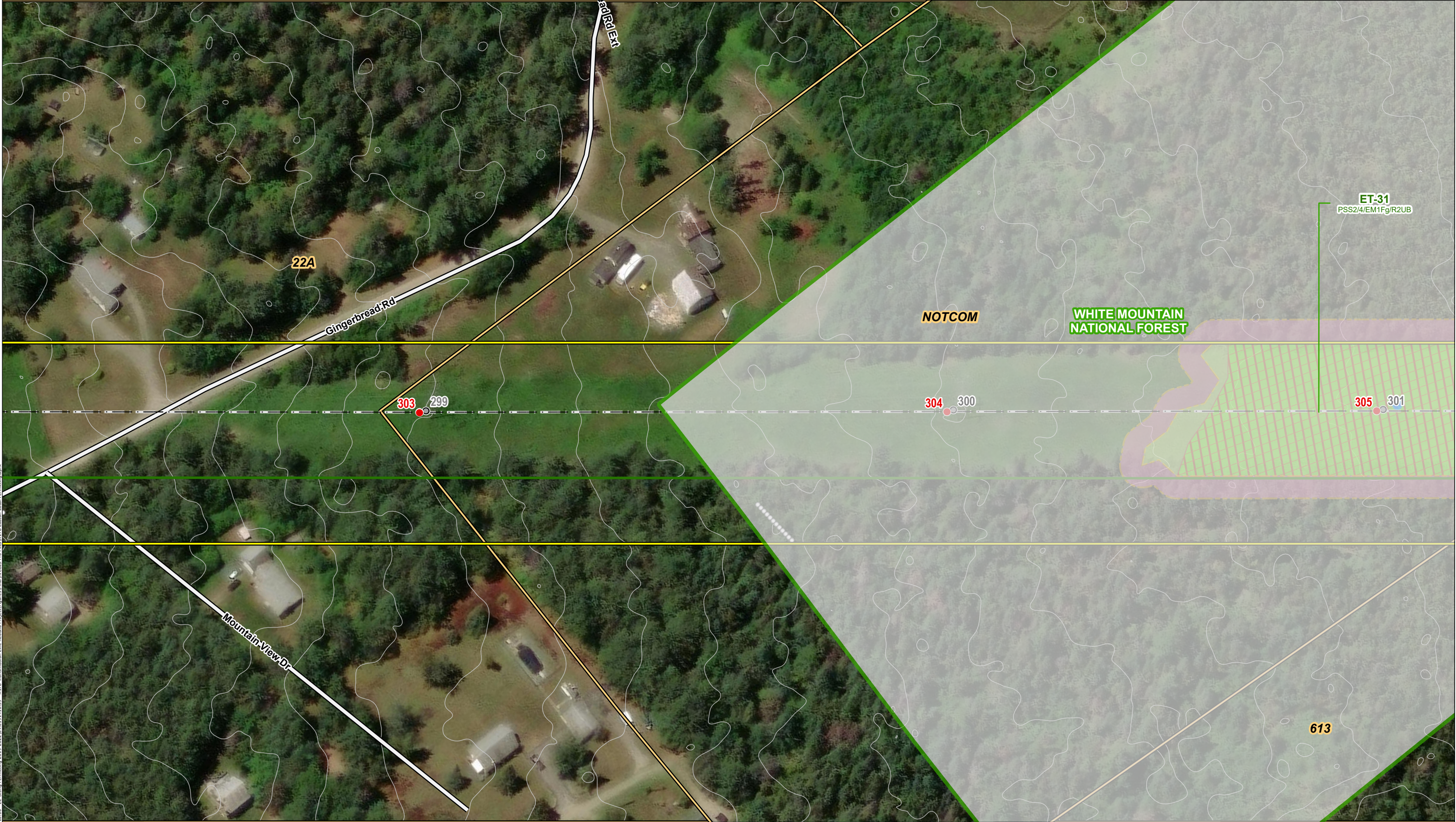
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N

1 in =100 ft

0

50

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Feet

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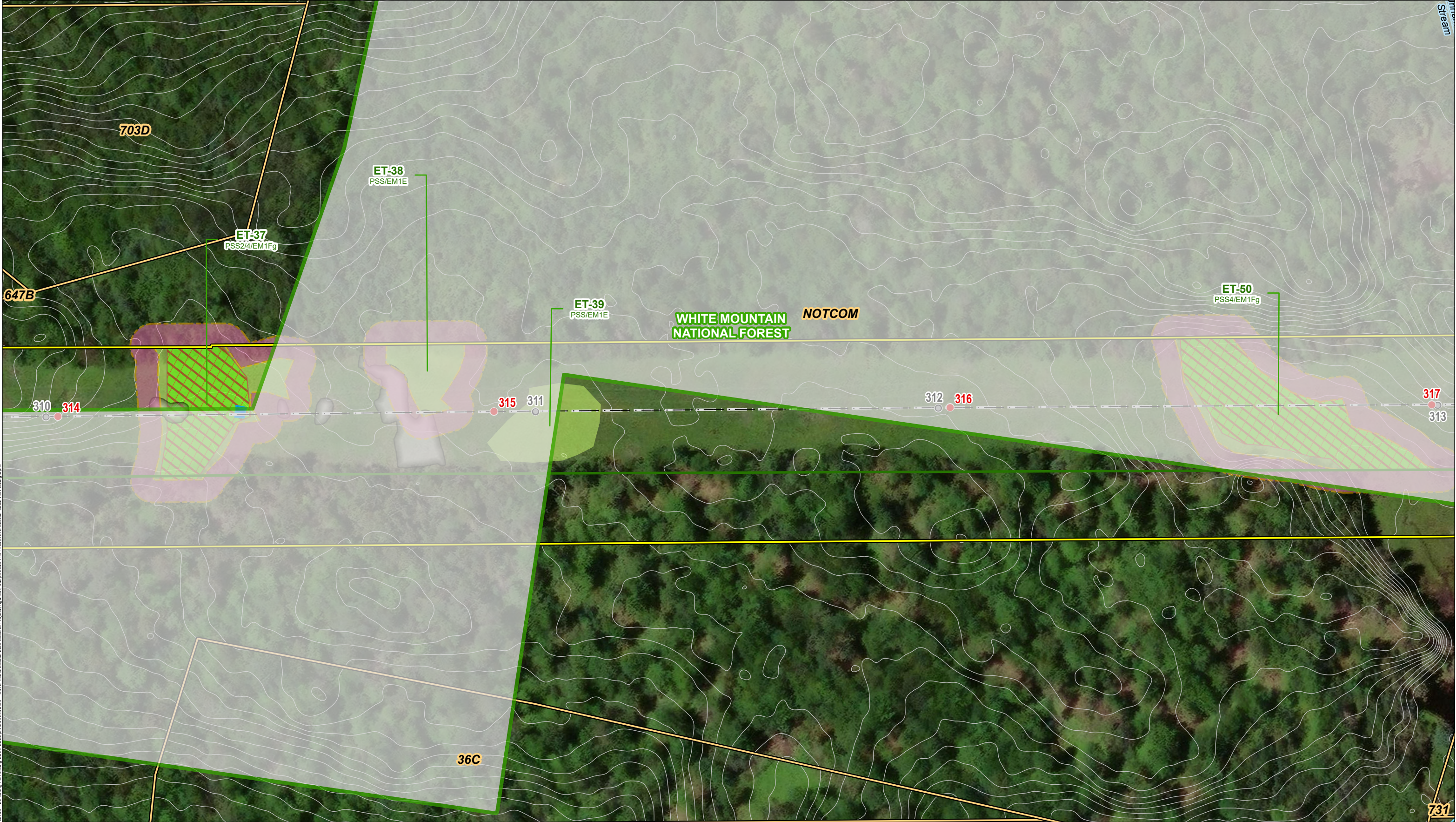
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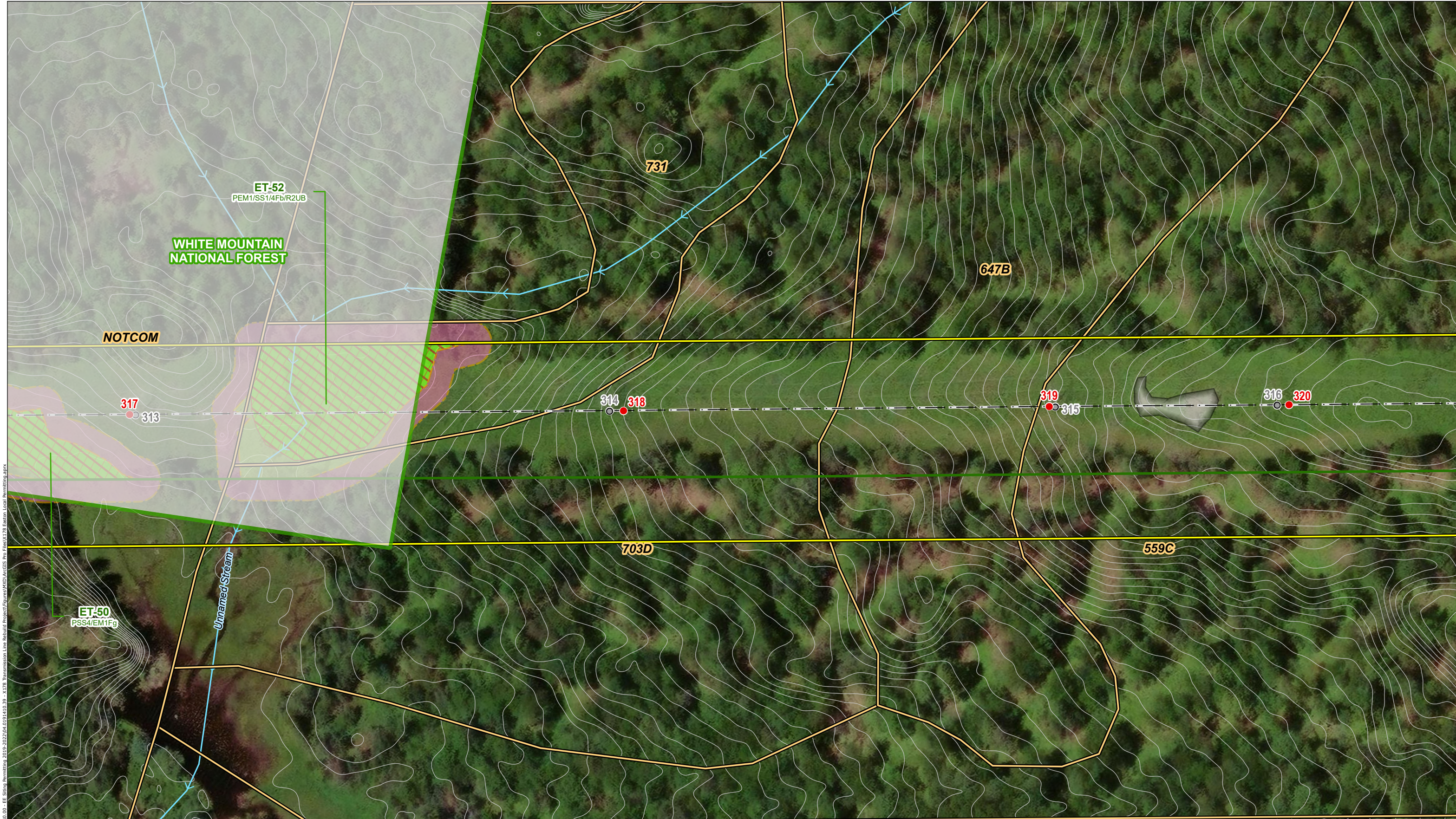
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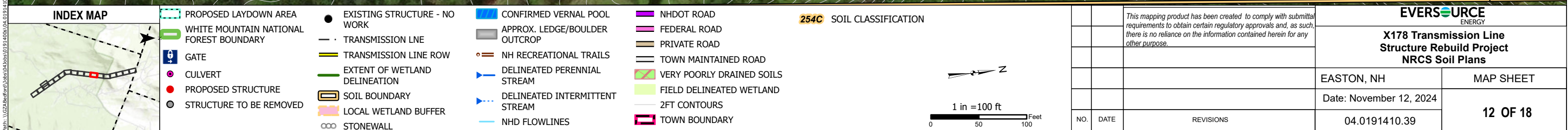
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254C SOIL CLASSIFICATION

1 in = 100 ft

0 50 100 Feet

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NO.

DATE

REVISIONS

EVERSOURCE ENERGY

X178 Transmission Line Structure Rebuild Project NRCS Soil Plans

EASTON, NH

MAP SHEET

Date: November 12, 2024

04.0191410.39

14 OF 18

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PROPOSED LAYDOWN AREA

WHITE MOUNTAIN NATIONAL FOREST BOUNDARY

GATE

CULVERT

PROPOSED STRUCTURE

STRUCTURE TO BE REMOVED

EXISTING STRUCTURE - NO WORK

TRANSMISSION LINE

TRANSMISSION LINE ROW

EXTENT OF WETLAND DELINEATION

SOIL BOUNDARY

LOCAL WETLAND BUFFER

STONEWALL

CONFIRMED VERNAL POOL

APPROX. LEDGE/BOULDER OUTCROP

NH RECREATIONAL TRAILS

DELINEATED PERENNIAL STREAM

DELINEATED INTERMITTENT STREAM

NHD FLOWLINES

NHDOT ROAD

FEDERAL ROAD

PRIVATE ROAD

TOWN MAINTAINED ROAD

VERY POORLY DRAINED SOILS

FIELD DELINEATED WETLAND

2FT CONTOURS

TOWN BOUNDARY

254C

SOIL CLASSIFICATION

1 in = 100 ft

		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.		
			EVERSOURCE ENERGY	
		X178 Transmission Line Structure Rebuild Project NRCS Soil Plans		
		EASTON, NH	MAP SHEET	
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NO.	DATE	REVISIONS		
			04.0191410.39	



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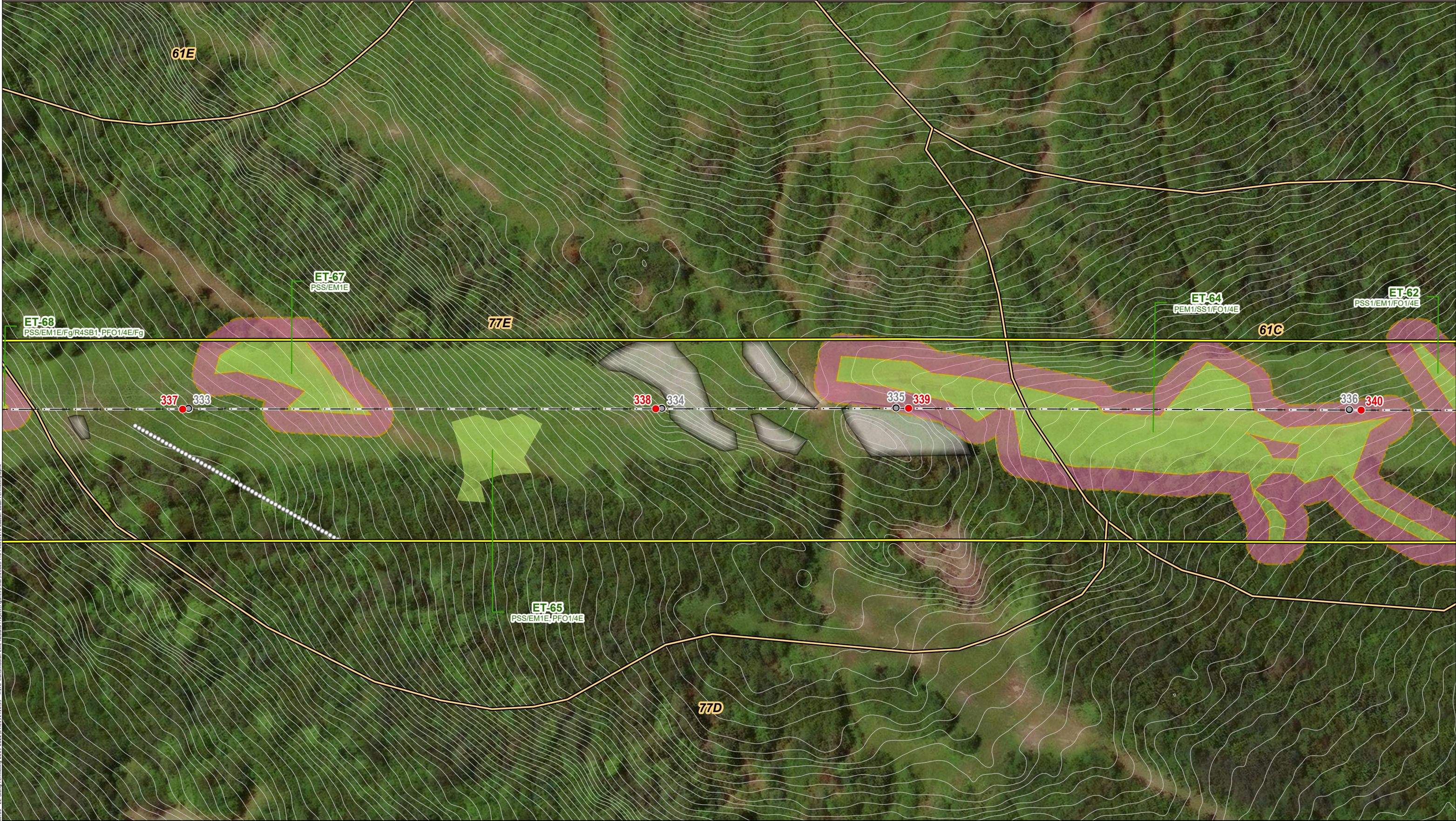
2FT CONTOURS

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			EASTON, NH	MAP SHEET
			Date: November 12, 2024	16 OF 18
NO.	DATE	REVISIONS	04.0191410.39	



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			EASTON, NH	MAP SHEET
			Date: November 12, 2024	17 OF 18
NO.	DATE	REVISIONS	04.0191410.39	

EVERSOURCE
ENERGY

**X178 Transmission Line
Structure Rebuild Project
NRCS Soil Plans**



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NO.	DATE	REVISIONS		

EVERSOURCE ENERGY

X178 Transmission Line Structure Rebuild Project NRCS Soil Plans

EASTON, NH

Date: November 12, 2024

04.0191410.39

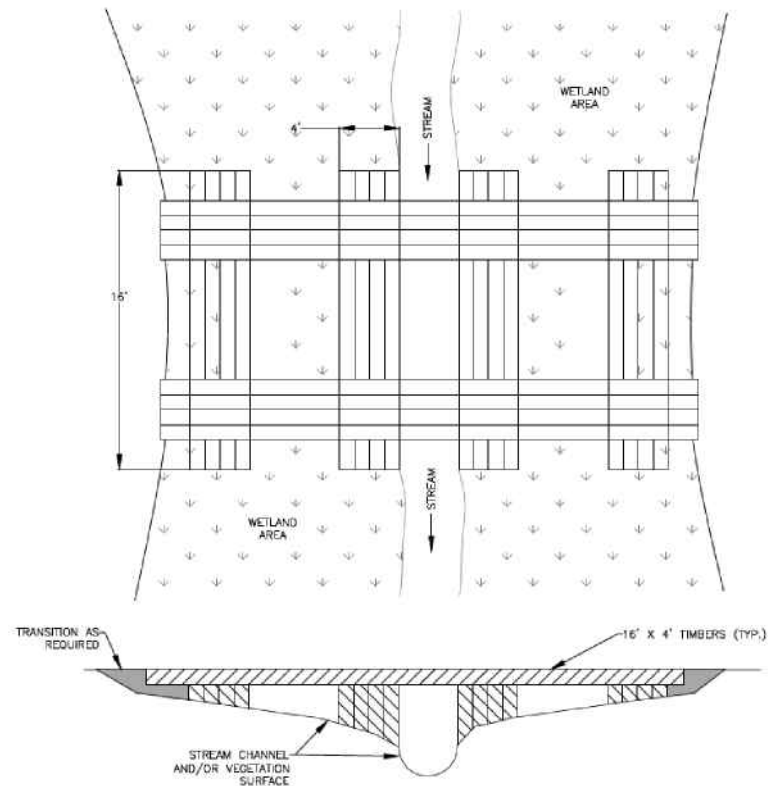
MAP SHEET

18 OF 18

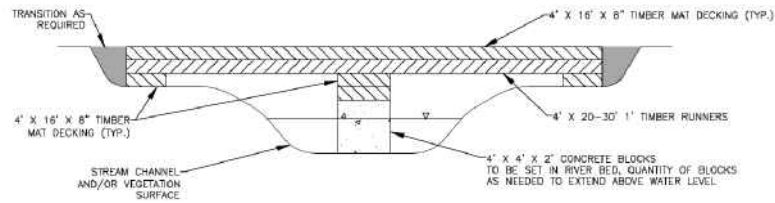
© 2024 - GZA GeoEnvironmental, Inc. \\GZA\Bdford\Jobs\04\Jobs\019140\0s\04_019141\10.00 - EE Siting Permitting 2019-2022\04_019141\410_39 - X178 Transmission Line Rebuild Project\Figures\MXD\Notesheets\Notesheet 1 REVISE SDF.RFM.mxd, 5/15/2024, 1:30:24 PM, Lindsey White

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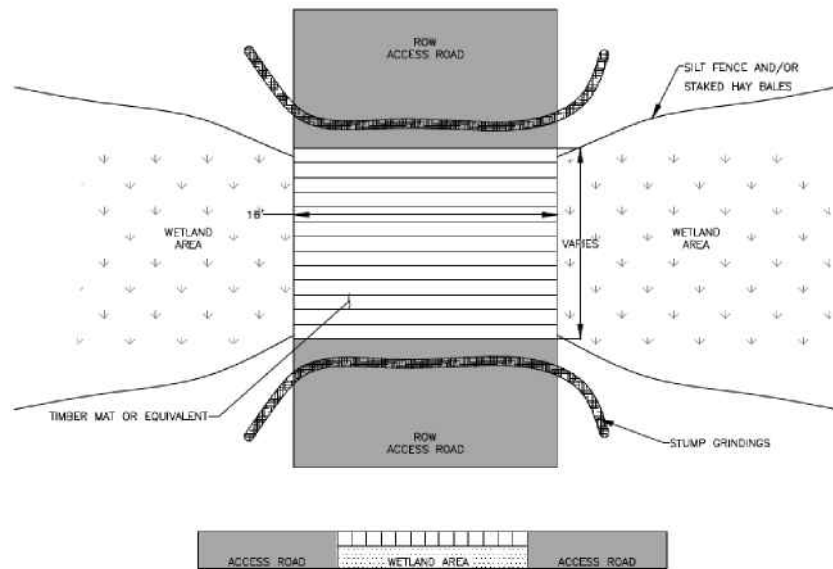
© 2024 - GZA GeoEnvironmental, Inc. \GZA Bedford\Jobs\04\Jobs\01914100\00 - EE Sting Permitting 2019-2022\04 0191410 39 - X178 Transmission Line Rebuild Project\Figures\MXD\Notesheets\Notesheet 2 - REV Oct 2023.mxd, 3/21/2024, 12:43:06 PM, lindsay.white



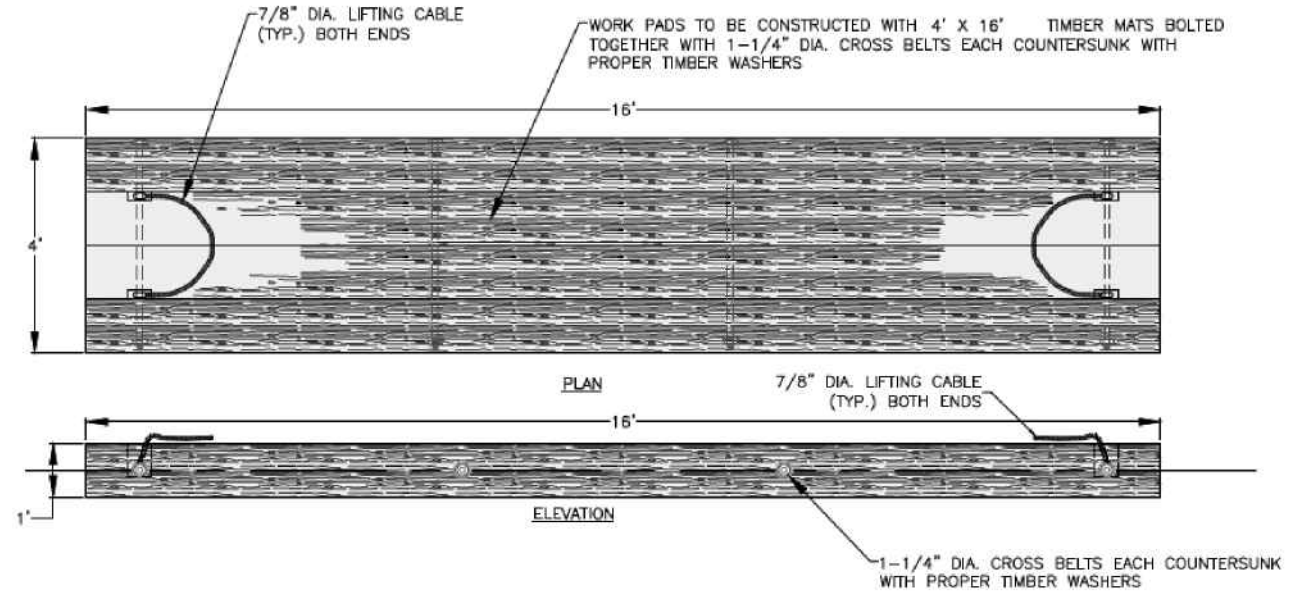
TYPICAL STREAM CROSSING
NOT TO SCALE



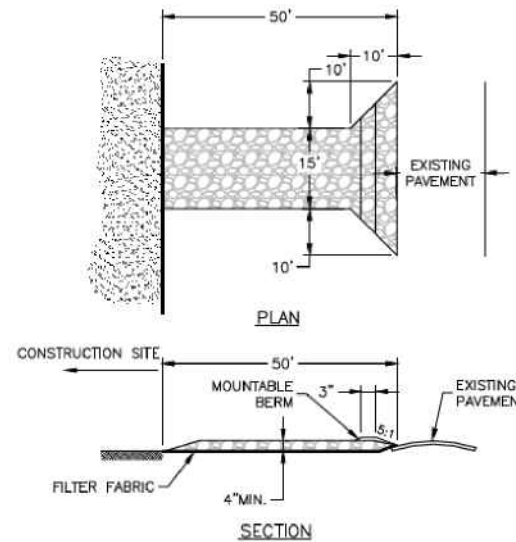
ALTERNATE STREAM CROSSING
NOT TO SCALE



TYPICAL WETLAND CROSSING
NOT TO SCALE



TYPICAL TIMBER MAT DETAIL
NOT TO SCALE



TEMPORARY CONSTRUCTION ENTRANCE / EXIT
NOT TO SCALE

NOTES

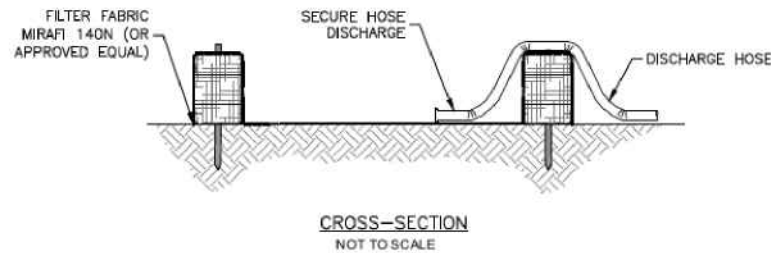
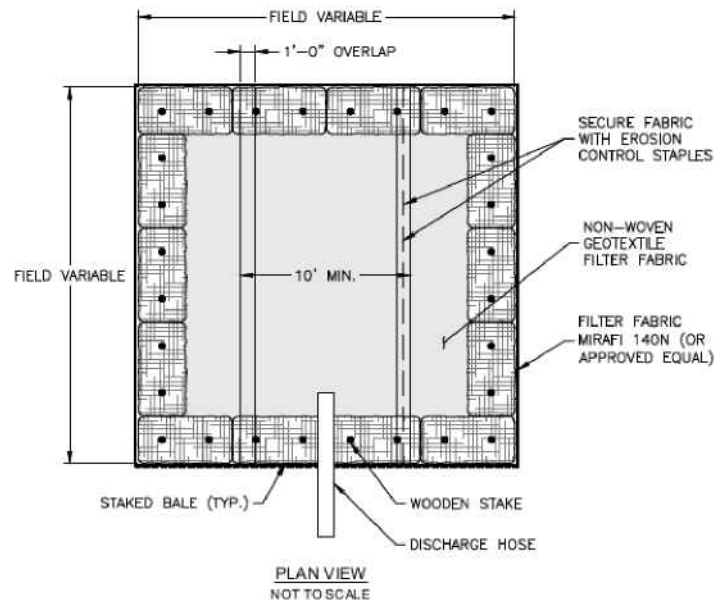
1. STONE SIZE - USE 2" STONE (MINIMUM) TO 6" STONE (MAXIMUM).
2. LENGTH - GREATER THAN OR EQUAL TO 50 FEET WITH THICKNESS OF 4".
3. WIDTH - FIFTEEN (15) FOOT TYP., BUT NOT LESS THAN FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
4. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS ENTRANCE. IF PIPING IS IMPRACTICAL, MOUNTABLE BERM SHALL BE PERMITTED.
5. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING AND ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
6. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED.
7. THE CLEAN STONE SHOULD BE INSTALLED OVER A GEOTEXTILE FABRIC. GEOTEXTILE FABRIC MAY BE OMITTED FOR PERMANENT CONSTRUCTION ENTRANCES-EXITS ON A CASE-BY-CASE BASIS WITH THE APPROVAL OF THE NATIONAL GRID ENVIRONMENTAL.
8. FOLLOWING CONSTRUCTION, THE CONSTRUCTION ENTRANCE / EXIT SHALL BE REMOVED AND THE AREA GRADED, SEEDED, AND MULCHED AS NEEDED. ENTRANCE / EXITS MAY REMAIN DEPENDING UPON FUTURE ACCESS NEEDS AND / OR PROJECT-SPECIFIC APPROVALS BUT REQUIRES APPROVALS FROM THE NATIONAL GRID ENVIRONMENTAL AND PROPERTY LEGAL.

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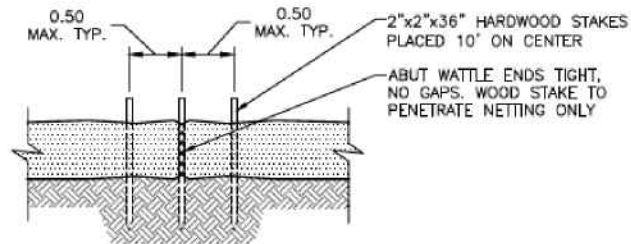
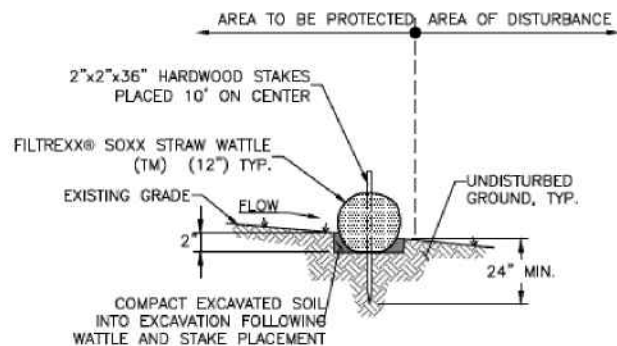
X178-2 TRANSMISSION LINE REBUILD
AND OPGW PROJECT
Easton, New Hampshire

BMP DETAILS

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: EVERSOURCE ENERGY	
PROJ MGR: CEM	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET S2
DESIGNED BY: HP	DRAWN BY: LEW	SCALE:	
DATE: 4/4/2024	PROJECT NO. 04.0191410.39	REVISION NO.	



DEWATERING BASIN DETAIL

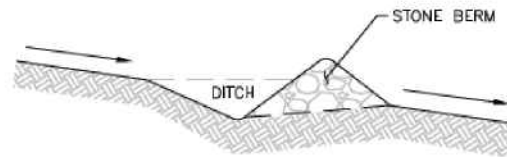
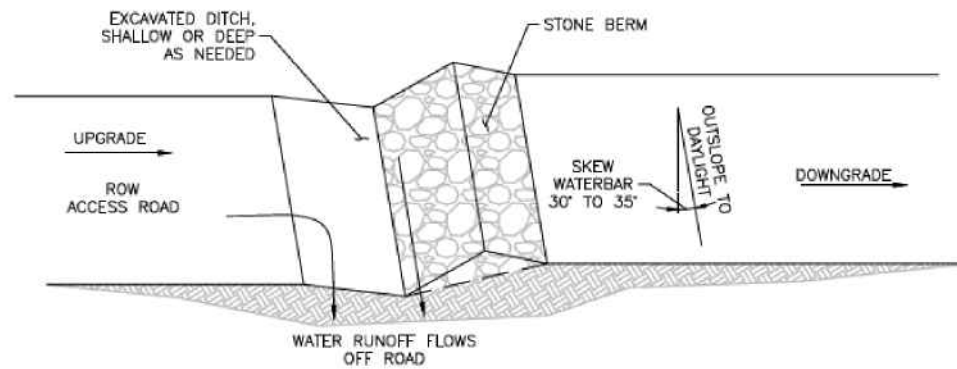


NOTES:

1. ALL MANUFACTURED EROSION AND SEDIMENT CONTROL PRODUCTS, WITH THE EXCEPTION OF TURF REINFORCEMENTS MATS, UTILIZED FOR, BUT NOT LIMITED TO, SLOPE PROTECTION, RUNOFF DIVERSION, SLOPE INTERRUPTION, PERIMETER CONTROL, INLET PROTECTION, CHECK DAMS, AND SEDIMENT TRAPS SHALL NOT CONTAIN PLASTIC, OR MULTIFILAMENT OR MONOFILAMENT POLYPROPYLENE NETTING OR MESH WITH AN OPENING SIZE OF GREATER THAN 1/8 INCHES.

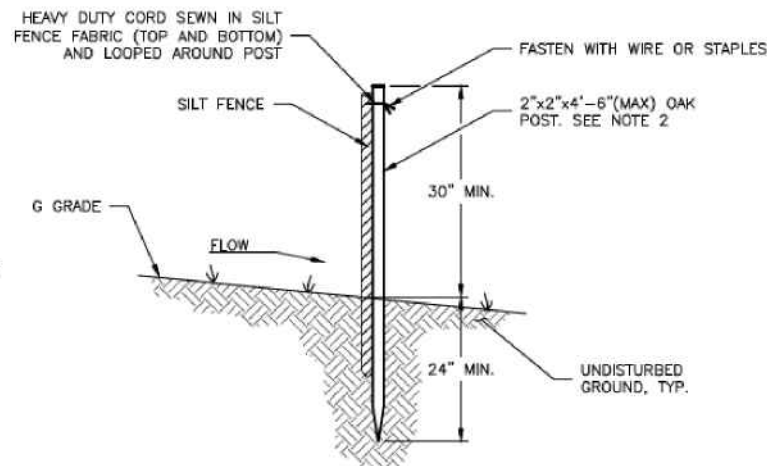
NOTES:

1. DITCHES CAN BE DUG/CONSTRUCTED ALONG SIDE OF ACCESS ROAD, PER ENGINEERS DESIGN.
2. WATER BAR OUTLET SHOULD DRAIN AT A 3% OUT-SLOPE ONTO LEVEL SPREADER, UNDISTURBED LITTER OR VEGETATION.



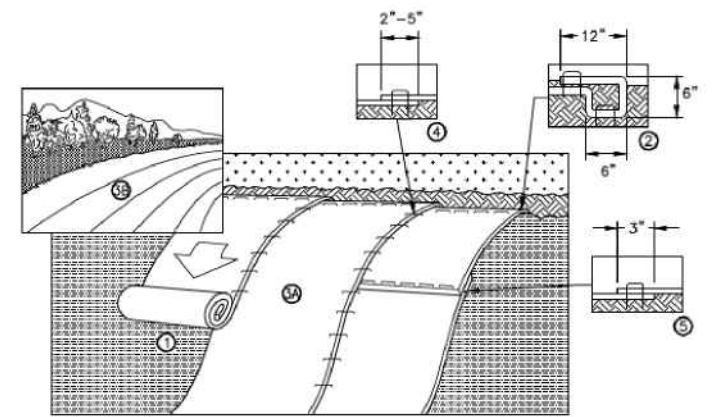
TYPICAL WATER BAR DETAIL

NOT TO SCALE



NOTES:

1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH NEW HAMPSHIRE ENV-WQ 1506 STANDARDS.
2. SILT FENCE SHOULD BE INSTALLED "TIGHT" AGAINST SILT FENCE. THOROUGHLY COMPACT EXCAVATED SOILS BACK INTO TRENCH AFTER INSTALLATION OF EROSION CONTROL DEVICE. SILT FENCE FABRIC SHALL NOT BE SLIT. STANDARD 9.1.0 POST SHALL BE DRIVEN THROUGH SILT FENCE FABRIC. 2"x2"x4'-6"(MAX) O.C. IN WETLAND AREAS AND 4'-0"(MAX) O.C. IN WETLAND RAVINE, GULLY OR DROP OFF AREAS AS SHOWN ON PLANS.
3. 1"x1"x 4'-6"(MIN) POSTS PERMITTED FOR PREFABRICATED SILT FENCE.
4. SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.



NOTES:

1. EROSION CONTROL BLANKET SHOULD BE INSTALLED VERTICALLY DOWNSLOPE.
2. STAKES/STAPLES SHOULD BE PLACED NO MORE THAN 3 FT. APART VERTICALLY AND 1 FT. APART HORIZONTALLY.
3. SLOPE SURFACES SHOULD BE FREE OF DEBRIS, INCLUDING STICKS, ROCKS AND OTHER OBSTRUCTIONS.
4. BLANKETS SHOULD BE ROLLED OUT LOOSELY AND STAKED/STAPLED TO MAINTAIN DIRECT SOIL CONTACT. DO NOT STRETCH THE BLANKETS.
5. DESIGNER/ENGINEER SHALL CHOOSE THE TYPE OF BLANKET OR MATTING DEPENDING ON SPECIFIC OBJECTIVES AND SITE CONDITIONS.

INSTALLATION NOTES:

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's). INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP's IN A 6" (15cm) DEEP x 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF RECP's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE RECP's.
3. ROLL THE RECP's (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE(tm). WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm - 12.5cm) OVERLAP DEPENDING ON RECP's TYPE.
5. CONSECUTIVE RECP's SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE RECP's WIDTH.

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X178-2 TRANSMISSION LINE REBUILD
AND OPGW PROJECT
Easton, New Hampshire

BMP DETAILS

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
EVERSOURCE
ENERGY

PROJ MGR: LEW
DESIGNED BY: HP
DATE: 4/4/2024

REVIEWED BY: TLT
DRAWN BY: LEW
PROJECT NO. 04.0191410.39

CHECKED BY: DMZ
SCALE:
REVISION NO.


SHEET
S3

Soil Key	Soil Description
NOTCOM	No Digital Data Available
15	Searsport mucky peat
22A	Colton gravelly sandy loam, 0 to 3 percent slopes
22B	Colton gravelly sandy loam, 3 to 8 percent slopes
36B	Adams loamy sand, 3 to 8 percent slopes
36C	Adams loamy sand, 8 to 15 percent slopes
57C	Becket fine sandy loam, 8 to 15 percent slopes, very stony
61C	Tunbridge-Lyman-Rock outcrop complex, 8 to 15 percent slopes
61D	Tunbridge-Lyman-Rock outcrop complex, 15 to 25 percent slopes
61E	Tunbridge-Lyman-Rock outcrop complex, 25 to 60 percent slopes
77C	Marlow fine sandy loam, 8 to 15 percent slopes, very stony
77D	Marlow fine sandy loam, 15 to 25 percent slopes, very stony
77E	Marlow fine sandy loam, 25 to 50 percent slopes, very stony
254C	Hermon and Monadnock soils, 8 to 15 percent slopes
79C	Peru fine sandy loam, 8 to 15 percent slopes, very stony
90B	Tunbridge-Lyman complex, 3 to 8 percent slopes, rocky
254B	Hermon and Monadnock soils, 3 to 8 percent slopes
255D	Monadnock and Hermon soils, 15 to 25 percent slopes, very stony
298	Pits, gravel
355E	Hermon sandy loam, 15 to 35 percent slopes, extremely bouldery
395	Chocorua mucky peat
559C	Skerry fine sandy loam, 8 to 15 percent slopes, very stony
613	Croghan loamy fine sand, 0 to 3 percent slopes
614	Kinsman sand
647B	Pillsbury fine sandy loam, 0 to 8 percent slopes, very stony
703D	Becket-Monadnock association, 15 to 35 percent slopes, very stony
711D	Monadnock-Hermon association, 15 to 35 percent slopes, very stony
731	Peacham and ossipee soils, very stony

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X178-2 TRANSMISSION LINE
REBUILD AND OPGW PROJECT
EASTON, NEW HAMPSHIRE

SOIL KEY

PREPARED BY:  GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR:	
PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET S4
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: November 12, 2024	PROJECT NO. 04.0191410.39	REVISION NO.	



Application Fee