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GEOTECHNICAL
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CONSTRUCTION MANAGEMENT

5 Commerce Park North
Suite 201
Bedford, NH 03110
T: 603.623.3600
F: 603.624.9463
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 Steep Slope Conditional Use Permit Application
Eversource Energy
X178-2 Transmission Line Rebuild and OPGW Project
Easton, New Hampshire

Dear Chair Cutler:

This letter transmits a revised Steep Slope Conditional Use 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-Town of Easton Steep Slope Plans**). On behalf of Eversource, GZA GeoEnvironmental, Inc. (GZA) is requesting consideration of a Steep Slope 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 Conditional Use Permit (Wetland) and a Site Plan Review Application related to the 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 White Mountain National Forest for these areas. The entire 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). There are 41 proposed

structure replacements and accompanying work pad areas in the Town of Easton, and five additional work pad areas for structures that are 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 46 existing utility structures. The existing wooden H-frame structures will be replaced with weathering steel equivalent H-frame structures.

The proposed project requires access to each structure and the construction of a work pad around structures in order to stage equipment during construction. Where proposed access and work pads are located within wetlands, timber matting will be utilized to minimize and prevent rutting and compaction to wetlands. Work will be conducted in accordance with the New Hampshire Department of Environmental Services (NHDES) Best Management Practices (BMP) 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 (SDF) has been submitted for proposed temporary wetland impacts in the Town of Easton.

Where access and work pads are proposed within uplands, including areas exceeding 15% or greater slopes, Eversource is proposing to construct/improve access routes and work pads by grading and adding stone 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 in uplands 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 x 100-ft temporary work pad area, and approximately 50-ft x 100-ft pull pads to support Optical Ground Wire (OPGW) pulling activities. Upon completion of structure replacement work, stone/gravel construction work pads will be reduced in size to the extent necessary for bucket truck access, to approximately a 30-ft by 60-ft area, and pull pads will be restored and not intended to remain after construction (see **4- Sediment and Erosion Control and Grading Plans**). Uplands adjacent to the approximate 30-ft x 60-ft permanent maintenance pads will be recontoured to the greatest extent and restored utilizing mulch and/or erosion control blankets and a native herbaceous seed mix. A NHDES Alteration of Terrain (AoT) application has been submitted and approved for proposed access route and work pad grading in uplands.

In the Town of Easton, the proposed project requires approximately 248,167 sq. ft. of temporary wetland matting for equipment access and work pad placement. In uplands, the proposed project requires approximately 1,199,567 sq. ft. of impact for access and work pad placement during construction, including approximately 44,455 sq. ft. of impact located within the 75-ft wetland buffer setback in uplands. However, upon restoration of 100-ft x 100-ft work pads to approximate 60-ft x 30-ft maintenance pads, and restoration of pull pads, approximately 432,400 sq. ft. of upland impact will be restored to preexisting conditions to the greatest extent. During construction, Eversource's contractors will implement approved BMPs included in the March 2019 NHDES BMP Manual for Work in and Adjacent to Wetlands and Waterbodies to minimize and prevent sedimentation and

erosion. Typical BMPs include installation of straw wattle in more level topography and silt fence in steeper sloped areas to separate wetlands and uplands and prevent sedimentation into wetlands during construction. As necessary, in steeper sloped areas, Eversource will utilize a terrace of silt fences supported by hay bales. Water bars will be installed along access routes to slow water and divert water runoff to route water off the access roads to uplands. Upon completion of construction and regrading of uplands, exposed soils will be stabilized with seed and mulch on shallow slopes, and restored with seed and erosion control blankets on steep slopes. Pending receipt of applicable permits, work is proposed to begin in September 2025, and pending emergencies and weather-related delays, the proposed project will be completed by September 2027. 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 weekly erosion and sediment control inspections through the duration of construction and will monitor vegetation regrowth progress during restoration.

In accordance with the Town of Easton Zoning Ordinance, Section 903(E), GZA is submitting a Sediment and Erosion Control and Site Grading Plan for proposed grading work to be conducted in uplands. In accordance with Section 903(G) of the Easton Zoning Ordinance, a Conditional Use Permit may be issued by the Planning Board, provided that all of the following conditions are met:

1. The grading cut and fill shall not exceed a 1V:2H ratio (50% slope). Grading will be completed to the extent necessary to provide safe access and work pads for proposed structure replacement. During restoration, access roads and maintenance pads will not exceed 50% slope.

2. Existing natural and topographic features, including the vegetative cover, will be preserved to the greatest extent possible. In the event that extensive amounts of vegetation are removed, the Site shall be replanted with indigenous vegetation and shall replicate the original vegetation as much as possible. Proposed access and work pad areas have been reviewed by Eversource to minimize impacts to natural topographic features to the greatest extent practicable while providing safe access to each structure. Grading will be completed to the extent necessary to provide safe access and work pads for proposed structure replacement. During restoration, stockpiled native topsoil is used to restore larger work pads to an approximate 30-ft x 60-ft maintenance pad. The surrounding landscape will be regraded to pre-existing contours to the greatest extent and topsoil will be spread over restored areas. The topsoil is then seeded with a native seed mix and mulched with a seedless, weed-free straw or erosion control blanket, as necessary. An environmental monitor will continue to monitor restoration progress until permanent stabilization has been met per the EPA Construction General Permit (CGP) requirements.

3. No structure shall be built on an extremely steep slope (greater than 25 percent prior to site disturbance). The proposed project involves the replacement of existing utility structures, some of which currently exist on slopes greater than 25% including existing Structures 304 through 310, 315, 317 through 319, 321 through 324, 326 through 329, 331 through 334, and 338 Eversource is limited in location of proposed structure replacement locations due to engineering requirements and the X178 Transmission Line is proposed to stay in the same existing alignment within the existing and maintained ROW. Proposed structure replacements will be shifted on average 5 to 10 ft ahead or back along the line based on engineering requirements. Where possible, Eversource has shifted the location of proposed structures to shallower slopes, including proposed Structures 323, 326, 336, and 342.

4. All development, including grading, clearing and construction of driveways, shall provide for the retention of native topsoil, stabilization of steep hillsides, prevention of erosion, and consequent sedimentation of streams

and watercourses. Peak stormwater discharge from the site after development shall not exceed pre-development levels for a two (2) year/twenty-four (24) hour storm event and existing drainage patterns will not be altered in a manner to cause an adverse impact on neighboring properties, town highways or surface waters. Proposed access and work pads are proposed within an existing and maintained utility ROW, and are not proposed for public transportation. Proposed access routes have been reviewed by Eversource to minimize impacts to the greatest extent practicable while providing safe access to each structure. Grading will be completed to the extent necessary to provide safe access and work pads. Construction will adhere to the Best Management Practices for Stormwater Management and Erosion and Sediment Controls. In addition, construction work will adhere to the NHDES Best Management Practices Manual for Utility Maintenance in and Adjacent to Wetlands and Waterbodies in New Hampshire. Erosion and sediment controls are typically determined by the contractor based upon current field conditions when work begins and is supplemented and maintained as needed. Typical sediment and erosion controls include silt fence on more steep slopes, and silt socks or straw wattle on more shallow slopes. During restoration, stockpiled native topsoil is used to reduce the size of the work areas. The topsoil is then seeded with a native seed mix and mulched with a seedless, weed-free straw. On steep slopes erosion control blanket is utilized. Additionally, restored areas will be inspected by an environmental monitor on a regular basis to ensure the 85 percent vegetative coverage requirement is met per Env-Wt 307.03(c)(6) and based on CGP requirements.

5. Development shall not result in an undue adverse impact on fragile environments, including wetlands, wildlife habitats, streams, steep and extremely steep slopes and unique property features. All efforts will be made to protect/preserve such areas and promote suitable buffers. The proposed project is located within an existing and maintained utility ROW that is routinely mowed and maintains predominantly upland shrub habitat and emergent and scrub-shrub wetland habitat. Upon completion of construction, the ROW will continue to exist as a predominantly shrub habitat with emergent and scrub shrub-wetlands that will be routinely mowed. In addition, impacts to wetlands are temporary and temporary timber matting will be utilized in wetlands for proposed access routes and work pads to minimize and prevent rutting and compaction to wetlands. Timber matting will be removed once construction is completed. Restoration progress will be monitored to ensure vegetation requirements are met per Env-Wt 307.03(c)(6) and the CGP. Therefore, it is not anticipated the proposed project will have long term impacts to the existing functions and values of wetlands and wildlife habitat. As previously mentioned, appropriate BMPs including silt fence and erosion control blankets will be utilized on steep slopes to promote stabilization and restoration. 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.

6. Buffer widths and setbacks from streams and wetlands shall be 75 feet. As previously mentioned, work is proposed within an existing and maintained utility ROW and proposes replacement of existing structures in the same existing alignment. Several existing structures are located within wetlands and within the 75-ft wetland buffer setback. Access routes and work pads are required within wetlands and within the 75-ft wetland buffer in order to gain access to existing and proposed Structure locations. The proposed project cannot be practicably located elsewhere. Due to the topography within uplands, including the 75-ft wetland buffer, Eversource is proposing to grade and install stone and gravel for proposed access roads and work pads, as typical for work in uplands. This will reduce the need for future access construction work for future storm events and will provide important soil stabilization in the Steep Slope District.

Should you have any questions, please contact Mr. Steven Riker at 603-232-8739 or steven.riker@gza.com.

Very truly yours,
GZA GEOENVIRONMENTAL, INC.

Steven D. Riker, CWS
Senior Project Manager

Deborah M. Zarta Gier, CNRP
Consultant/Reviewer

Tracy L. Tarr, CWS, CWB, CESSWI
Associate Principal

SDR/DMZ/TLT:jlb
p:\04jobs\0191400s\04.0191410.00 - ee siting permitting 2019-2022\04.0191410.39 - x178 transmission line rebuild project\work\local permitting\easton\steep slope cup\easton steep slope cup re-submittal\final 1410.39 sscup 110424.docx

Attachments: Steep Slope CUP Application Form
List of Abutters
Photo Log
Figure 1 – Locus Plan
Figure 2 – Access and Permitting Plans
Figure 3 – Town of Easton Steep Slope Plans
Application Fee

Steep Slope 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*

Eversouce 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 #201, Bedford, NH 03110 603-232-8739 steven.riker@gza.com

Address, phone & email

EASTON, NH - CONDITIONAL USE PERMTT 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 _____

lN 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 & SUBDIVSION 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
_____	☐	_____
_____	☐	_____
_____	☐	_____
_____	☐	_____
_____	☐	_____
_____	☐	_____
_____	☐	_____
_____	☐	_____
_____	☐	_____

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*

List of Abutters

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 000002-000027-00000B
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 & 000002-000042-00000
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 000003-000016-00000A
T&T Mountain Investments, LLC
244 Main Street
Franconia, NH 03580

Tax Map – Lot 000003-000016-00000B
McNary, Steven & Pamela
15 Ruskin Road
Easton, NH 03580

Tax Map – Lot 000003-000016-00000C
Plante, Patrick W. & Kathleen
19 Ruskin Road
Franconia, NH 03580

Tax Map – Lot 000003-000018-000000
Finnegan, Myles & Carol-Ann
371 Cherry Valley Road
Bethlehem, NH 03574

Tax Map – Lot 000003-000019-000000
Kellogg, John
13 Rue Jean Jaures, 03000 Moulins
France

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 000003-000020-00000B
Farhi, Jacques-Jane-Pamela
15 West 70 Second Street Apt 36C
New York, NY 10023

Tax Map – Lot 000003-000020-00000C
Ruskin Marc, Philipee, & Adina
865 West End Ave Apt 4A
New York, NY 10025

Tax Map – Lot 000003-000025-000000
Goodhue, Christopher
34 Ruskin Road
Easton, NH 03580

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 000004-000035-000000 & 000005-000001-000000
Darvid, Anna & Anthony
1730 Easton Valley Road
Franconia, NH 03580

Tax Map – Lot 000004-000039-000000
Graham, Shawn & Anne
95 Beaver Meadow
Easton, 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 000004-000041-000000
Mei. Zhenye
139 Beaver Meadow
Easton, NH 03580

Tax Map – Lot 000005-000001-000000
Roberts, Paige
1809 Easton Valley Road
Easton, NH 03580

Tax Map – Lot 000005-000008-000000
Gols, Lorie
Easton Valley Road
Easton, NH 03580

Tax Map – Lot 000005-000012-000000
Treuman, Laura L.
PO Box 493
Franconia, 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 000005-000017-000000
Tulley, John & Briggs, Anna
111 Gingerbread Road
Easton, NH 03580

Tax Map – Lot 000005-000027-000000
Brick, Margaret M., and John W.
144 Gingerbread Road
Easton, NH 03580

Tax Map – Lot 000005-000031-000000
McCullough, Linda
1640 Highland Park Drive S.
Lake Wales, FL 33898

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 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 & Susuan
31 Hadley Road
Pepperell MA, 01463

Tax Map – Lot 000005-000036-000000
Aiguier, Dean
320 West Second Street Unit 510
South Boston, MA 02127

Tax Map – Lot 000005-000039-000000
Brownlee, Scott
Hasselbarth, Kierstan
15 Vista Lane
Easton, NH 03580

Tax Map – Lot 000005-000040-000000
Whitecomb, Stephen
1861 Easton Valley Road
Easton, NH 03580

Tax Map – Lot 000005-000041-000000
Muser, Thomas
72 Isalene Street
Hyannis, MA 02601

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

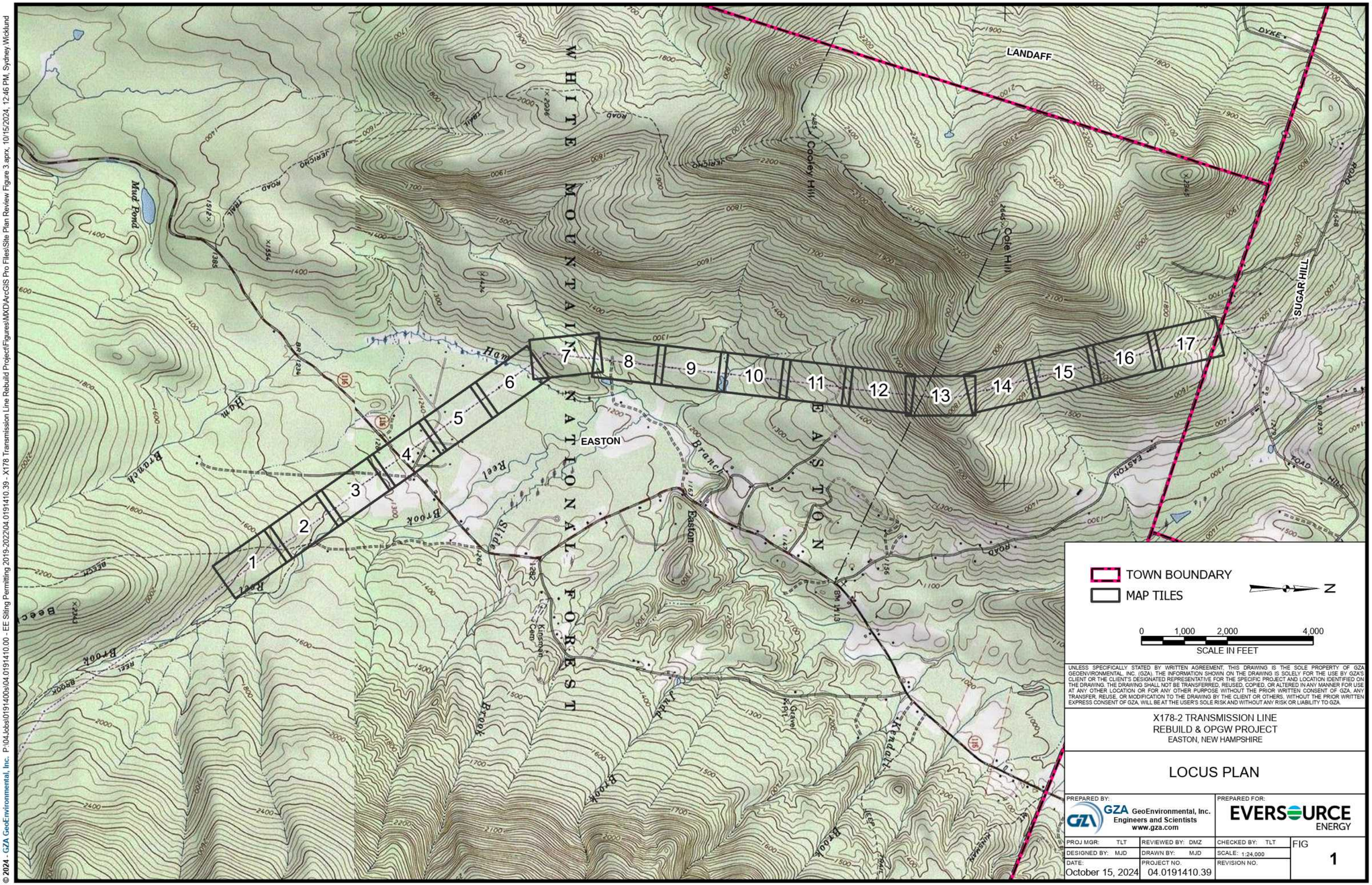
Photograph No. 59: Looking southerly at proposed work pad location for Structure 337.

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

Figure 1 – Locus Plan



TOWN BOUNDARY

MAP TILES

N

0 1,000 2,000 4,000

SCALE IN FEET

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

LOCUS PLAN

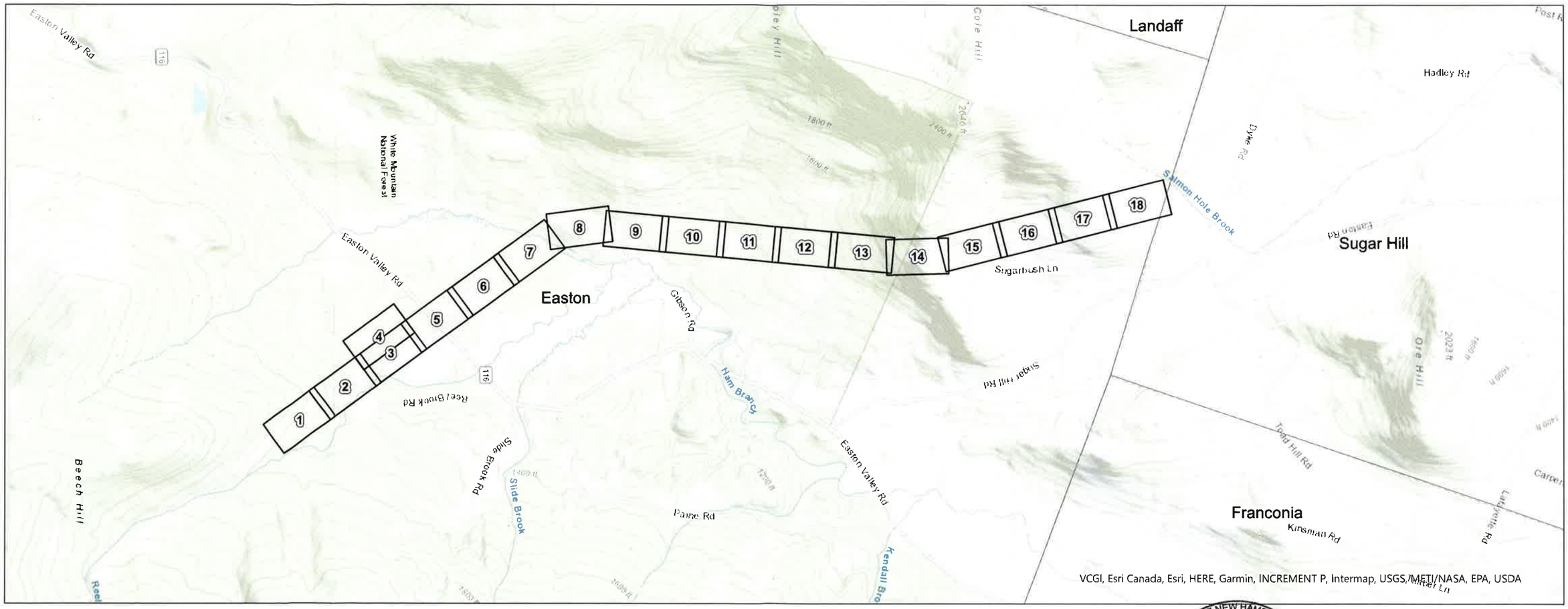
PREPARED BY:		PREPARED FOR:	
GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		EVERSOURCE ENERGY	
PROJ MGR: TLT	REVIEWED BY: DMZ	CHECKED BY: TLT	FIG 1
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE: 1:24,000	
DATE: October 15, 2024	PROJECT NO. 04.0191410.39	REVISION NO.	

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



PREPARED FOR:

EVERSOURCE ENERGY

13 Legends Drive
Hooksett, NH 03106

N

0 0.17 0.35 0.7 Miles

INDEX OF FIGURES

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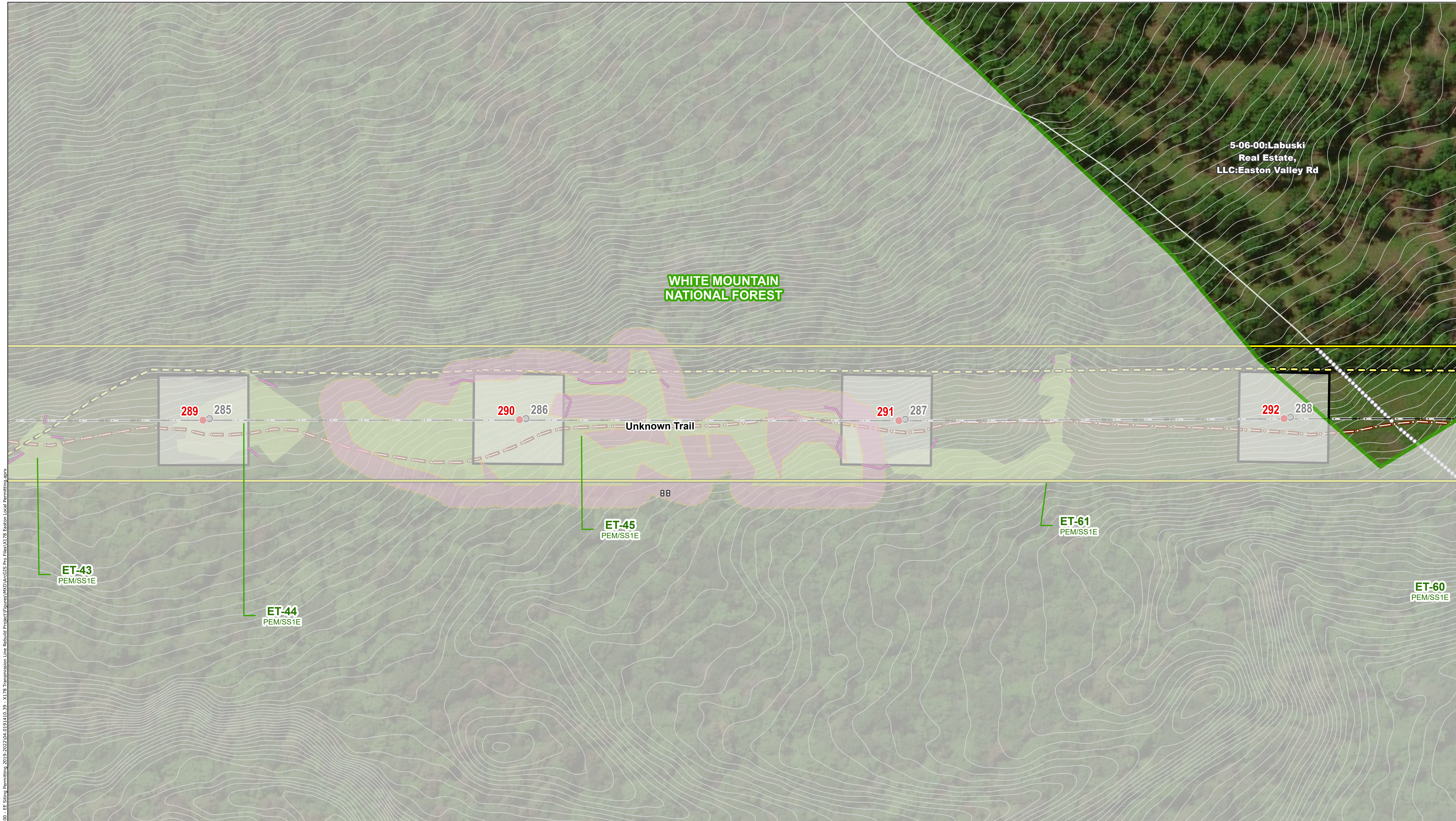
Notesheets 1-3

NO.	DATE	REVISIONS

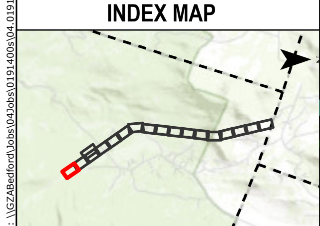
STATE OF NEW HAMPSHIRE
PETER JOHN PETKAUSKOS
11/13/24
No. 319
CERTIFIED WETLAND SCIENTIST

PREPARED BY:

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



INDEX MAP



- PROPOSED STRUCTURE
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- TRANSMISSION LINE ROW
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- PARCEL BOUNDARY
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- 2FT CONTOURS
- PERIMETER CONTROLS (SILT FENCE, SILT FENCE WITH HAY BALE, OR STRAW WATTLE)
- TOWN BOUNDARY

N

1 in =100 ft

0 50 100 Feet

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	MAP SHEET
Date: November 12, 2024	1 OF 18
04.0191410.39	

5-06-00:Labuski Real Estate, LLC:Easton Valley Rd

WHITE MOUNTAIN NATIONAL FOREST

5-05-00:Whitecomb, Stephen & Suzanne:1861 Easton Valley Rd

ET-46
PEM/SS1E

293 289

290 294

295 291

Unknown Trail

ET-48
PEM/SS1E

ET-60
PEM/SS1E

ET-47
PEM/SS1E

5-03-00: :

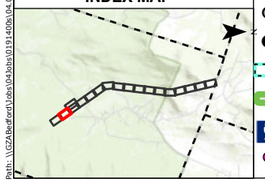
Reel Brook Rd

Reel Brook

5-02-00: :

Path: \\GIS\Bedford\Jobs\04\Jobs\01\04\06\04.0191410.00 - EE Siting Permitting 2019-2022\04.0191410.39 - X178 Transmission Line Rebuild Project\Figures\MXD\ArcGIS Pro Files\X178 Easton Local Permitting.aprx

INDEX MAP



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1 in =100 ft

0 50 100 Feet

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EVERSOURCE ENERGY

X178 Transmission Line Structure Rebuild Project Access and Permitting Plans

EASTON, NH | MAP SHEET

Date: November 12, 2024

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NO.	DATE	REVISIONS

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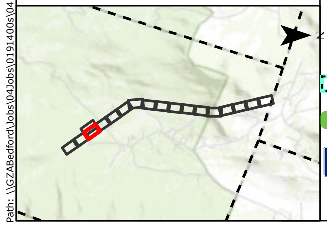

PROPOSED STRUCTURE	TRANSMISSION LNE	STONEWALL	NH RECREATIONAL TRAILS	TOWN MAINTAINED ROAD
STRUCTURE TO BE REMOVED	TRANSMISSION LINE ROW	CONFIRMED VERNAL POOL	DELINEATED PERENNIAL STREAM	PARCEL BOUNDARY
EXISTING STRUCTURE - NO WORK	EXTENT OF WETLAND DELINEATION	PROPOSED ACCESS	DELINEATED INTERMITTENT STREAM	VERY POORLY DRAINED SOILS
PROPOSED LAYDOWN AREA	TEMPORARY UPLAND MATTING	OFF ROW PENDING RIGHTS	NHD FLOWLINES	FIELD DELINEATED WETLAND
WHITE MOUNTAIN NATIONAL FOREST BOUNDARY	TEMPORARY WETLAND MATTING	EXISTING ACCESS	NHDOT ROAD	2FT CONTOURS
GATE	WETLAND BUFFER IMPACTS	WORK PAD	FEDERAL ROAD	PERIMETER CONTROLS (SILT FENCE, SILT FENCE WITH HAY BALE, OR STRAW WATTLE)
CULVERT	LOCAL WETLAND BUFFER	PULL PADS	PRIVATE ROAD	TOWN BOUNDARY
		APPROX. LEDGE/BOULDER OUTCROP		

1 in =100 ft

0 50 100 Feet

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EVERSOURCE ENERGY

X178 Transmission Line Structure Rebuild Project Access and Permitting Plans

EASTON, NH

MAP SHEET

Date: November 12, 2024

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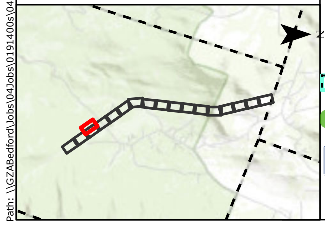

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EVERSOURCE ENERGY

X178 Transmission Line Structure Rebuild Project Access and Permitting Plans

EASTON, NH	MAP SHEET
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EVERSOURCE ENERGY

X178 Transmission Line Structure Rebuild Project Access and Permitting Plans

EASTON, NH

MAP SHEET

Date: November 12, 2024

04.0191410.39

5 OF 18

5-16-00:Leahy, Michael E., Trustee:Easton Valley Rd

5-17-00:Tully, John & Briggs, Anna:111 Gingerbread Rd

5-27-00:Brick, Margaret M. and John W.:144 Gingerbread Rd

Gingerbread Rd Ext

Gingerbread Rd

5-13-00:Cuomo-Poirier, Natasha:Easton Valley Rd

WHITE MOUNTAIN NATIONAL FOREST

ET-31
PSS2/4/EM1Fg/R2UB

303 299

304 300

305 301

5-15-00:Sullivan/Buzzel Living Trust:43 Gingerbread Rd

5-28-00:Noga, Barbara P. & Andrew:25 Mountain View Rd

5-30-00:Noel, Daniel & Gayle:Mountain View Dr

Mountain View Dr

5-34-00:Steed, Rachel:42 Gingerbread Rd

5-29-00:Morabito, Pamela G.:73 Mountain View Dr

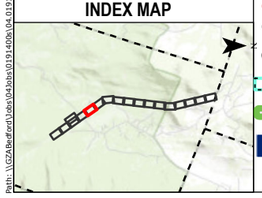
5-33-00:Cimino, Joseph P. & Mary Ann:38 Mountain View Dr

5-31-00:McCullough, Linda:62 Mountain View Dr

5-36-00:Aiguier, Dean:Vista Lane

4-35-00:Darvid, anna & Anthony:1730 Easton Valley Rd

INDEX MAP



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1 in =100 ft

0 50 100 Feet

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NO.	DATE	REVISIONS

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X178 Transmission Line Structure Rebuild Project Access and Permitting Plans

EASTON, NH | MAP SHEET

Date: November 12, 2024

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WHITE MOUNTAIN NATIONAL FOREST

ET-31
PSS2/4/EM1Fg/R2UB

WETLAND ET-31:
APPROX. 28,459
SF TEMP. WETLAND MATTING

Ham Branch

305 301 302 306 303 307

3-10-00:Ward,
Ruth W.:294
Gibson Rd

APPROXIMATE WETLAND
BUFFER IMPACTS: 920 SF

Path: \\GIS\Bedford\Jobs\04\Jobs\0191\410\04.0191410.00 - EE Siting Permitting 2019-2022\04.0191410.39 - X178 Transmission Line Rebuild Project\Figures\MXD\ArcGIS Pro Files\X178 Easton Local Permitting.aprx

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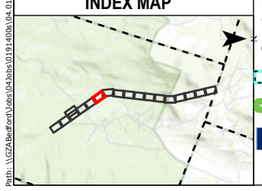

- PROPOSED STRUCTURE
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- EXISTING STRUCTURE - NO WORK
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- WHITE MOUNTAIN NATIONAL FOREST BOUNDARY
- GATE
- CULVERT
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- TRANSMISSION LINE ROW
- EXTENT 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

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0 50 100 Feet

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WHITE MOUNTAIN NATIONAL FOREST

Unnamed Stream

305 309

306 310

308 304

311 307

ET-31
PSS2/4/EM1Fg/R2UB

ET-34
PSS/EM1E/R3UBb

ET-33
PSS1/4/EM1E

3-10-00:Ward, Ruth
W.:294 Gibson Rd

APPROXIMATE WETLAND BUFFER IMPACTS: 920 SF

Ham Branch

WETLAND ET-31:
APPROX. 28,459
SF TEMP. WETLAND MATTING

WETLAND ET-33:
APPROX. 1,898
SF TEMP. WETLAND MATTING

WETLAND ET-34:
APPROX. 1,764 SF
TEMP. WETLAND MATTING

Path: \\GDA\Bedford\Jobs\04Jobs\0191410\8.00 - EE Siting Permitting\2019-2023\04.0191410.39 - X178 Transmission Line Rebuild Project\Figures\MXD\ArcGIS Pro Files\X178 Easton Local Plan.aprx

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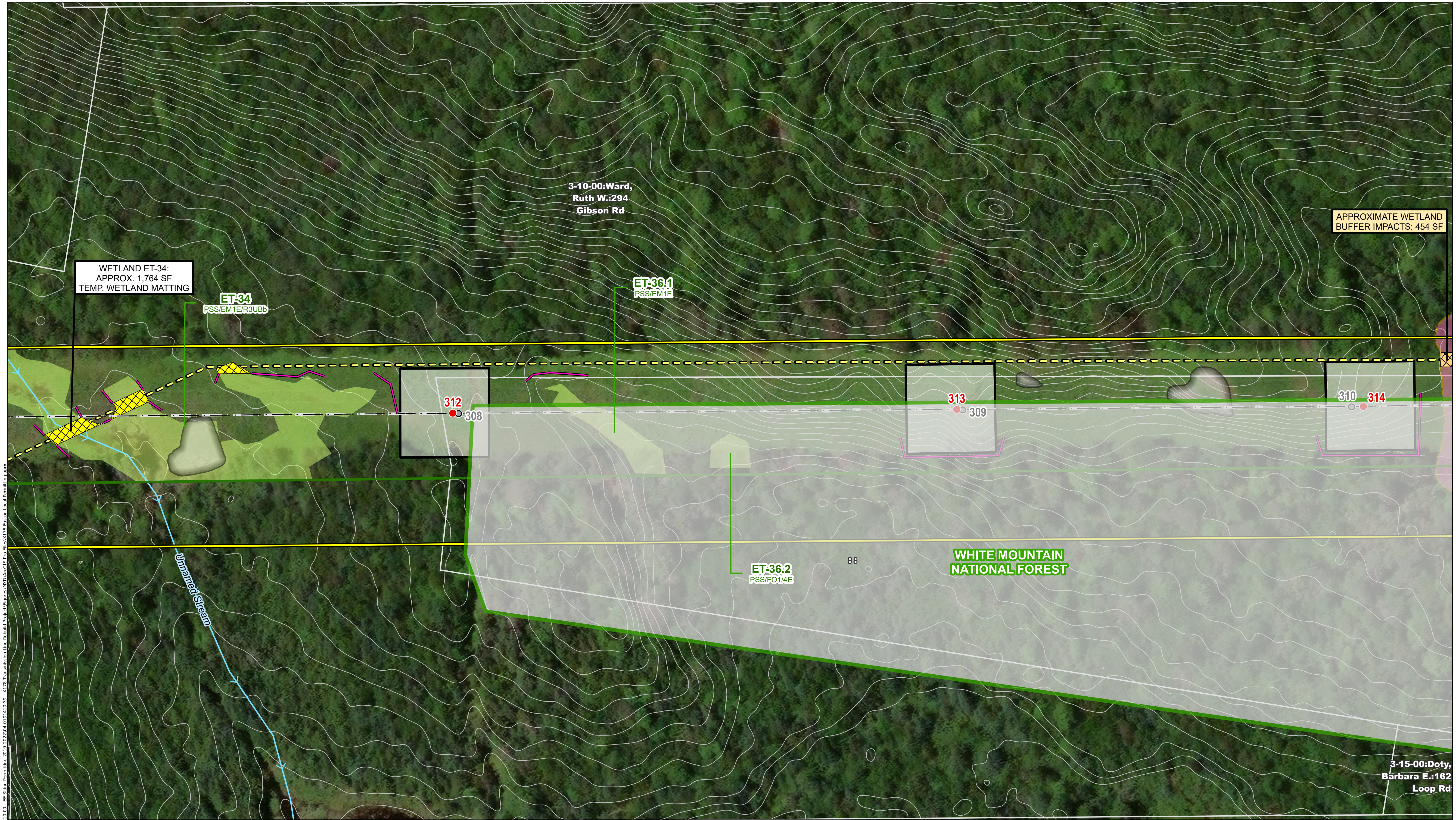

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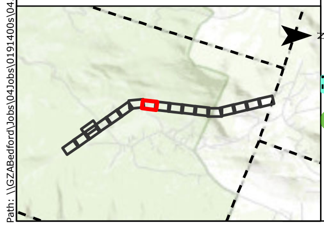

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X178 Transmission Line
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Access and Permitting Plans

EASTON, NH	MAP SHEET
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3-10-00:Ward,
Ruth W.:294
Gibson Rd

ET-37
PSS2/4/EM1Fg

ET-38
PSS/EM1E

WETLAND ET-37:
APPROX. 1,827 SF
TEMP. WETLAND MATTING

APPROXIMATE
WETLAND BUFFER
IMPACTS: 454 SF

WETLAND ET-39:
APPROX. 3,279
SF TEMP. WETLAND MATTING

WHITE MOUNTAIN
NATIONAL
FOREST

ET-39
PSS/EM1E

ET-50
PSS4/EM1Fg

310 314 315 311 312 316 317 313

3-15-00:Doty,
Barbara E.:162
Loop Rd

Stream

Path: \\GIS\Bedford\Jobs\04\Jobs\01914\08\04.0191410.00 - EE Gilbo Permitting 2019-2022\04.0191410.39 - x178 Transmission Line Rebuild Project\Figures\MXD\ArcGIS Pro Files\X178 Easton Local Permitting.aprx

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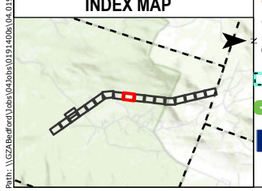

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- EXISTING ACCESS
- WORK PAD
- PULL PADS
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- 2FT CONTOURS
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X178 Transmission Line
Structure Rebuild Project
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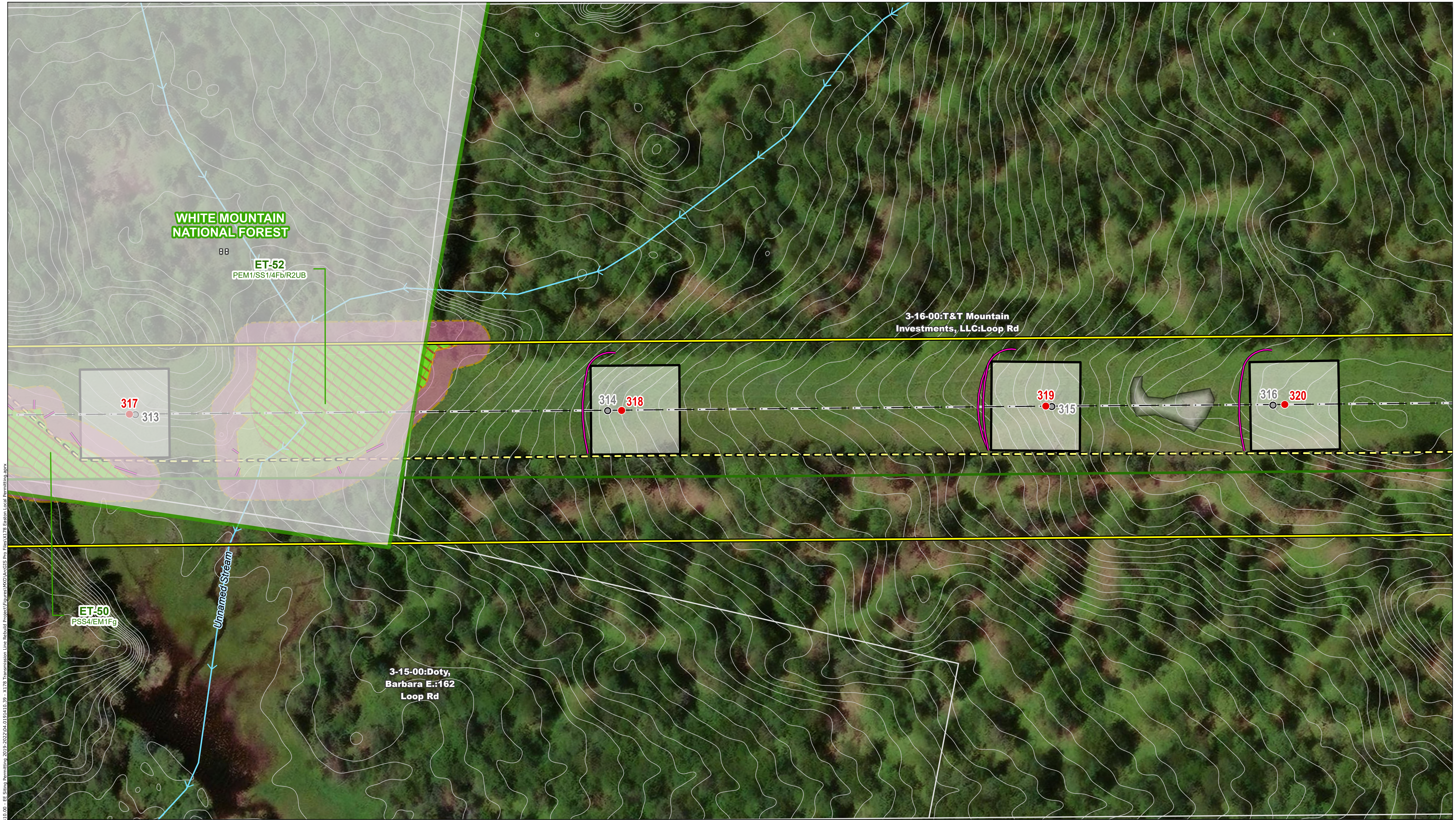

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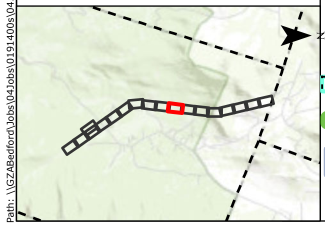

PROPOSED STRUCTURE	TRANSMISSION LNE
STRUCTURE TO BE REMOVED	TRANSMISSION LINE ROW
EXISTING STRUCTURE - NO WORK	EXTENT OF WETLAND DELINEATION
PROPOSED LAYDOWN AREA	TEMPORARY UPLAND MATTING
WHITE MOUNTAIN NATIONAL FOREST BOUNDARY	TEMPORARY WETLAND MATTING
GATE	WETLAND BUFFER IMPACTS
CULVERT	LOCAL WETLAND BUFFER

STONEWALL	NH RECREATIONAL TRAILS	TOWN MAINTAINED ROAD
CONFIRMED VERNAL POOL	DELINEATED PERENNIAL STREAM	PARCEL BOUNDARY
PROPOSED ACCESS	DELINEATED INTERMITTENT STREAM	VERY POORLY DRAINED SOILS
OFF ROW PENDING RIGHTS	NHD FLOWLINES	FIELD DELINEATED WETLAND
EXISTING ACCESS	NHDOT ROAD	2FT CONTOURS
WORK PAD	FEDERAL ROAD	PERIMETER CONTROLS (SILT FENCE, SILT FENCE WITH HAY BALE, OR STRAW WATTLE)
PULL PADS	PRIVATE ROAD	TOWN BOUNDARY
APPROX. LEDGE/BOULDER OUTCROP		

N

1 in =100 ft

0 50 100 Feet

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EVERSOURCE ENERGY

X178 Transmission Line Structure Rebuild Project Access and Permitting Plans

EASTON, NH	MAP SHEET
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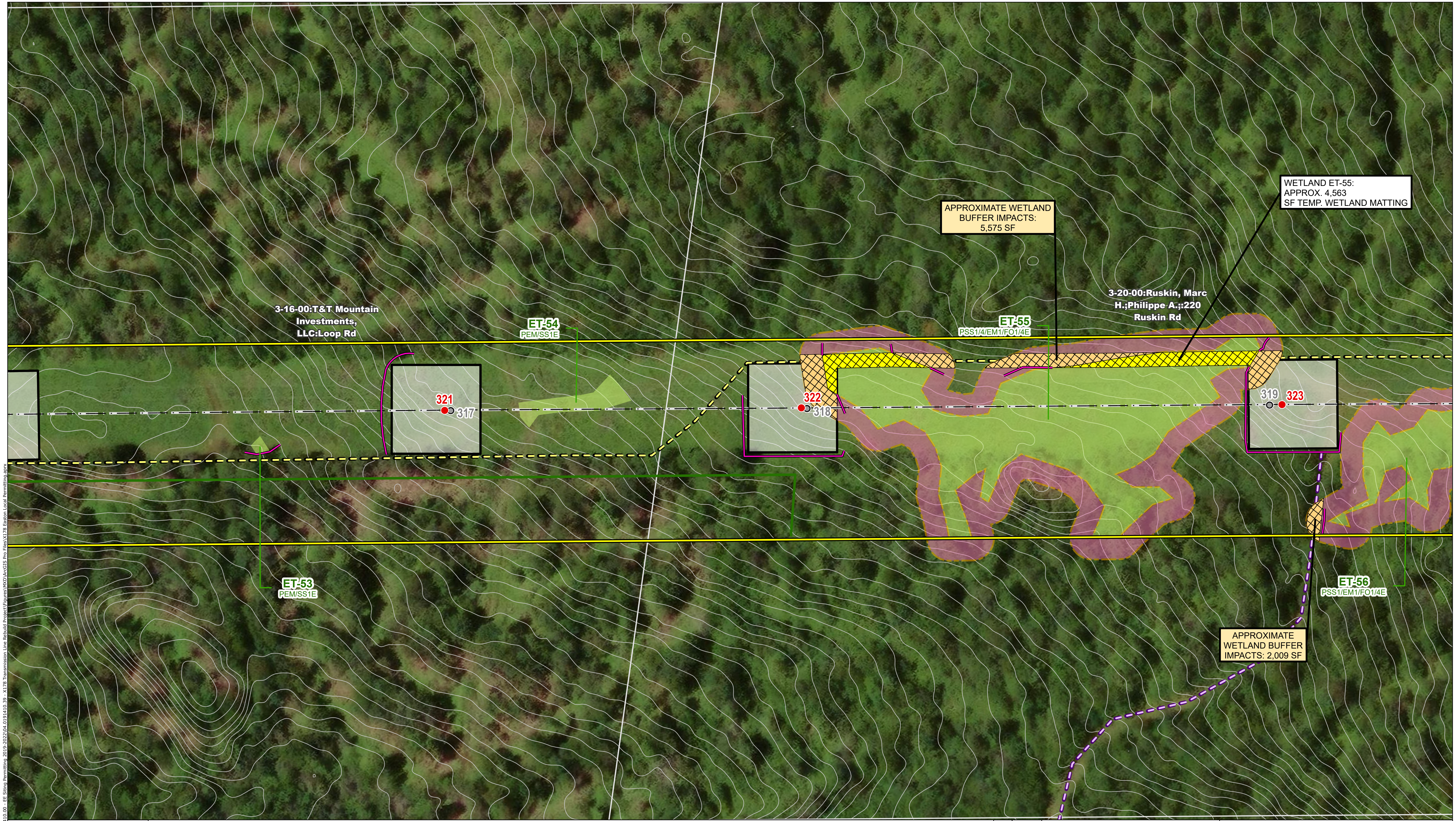

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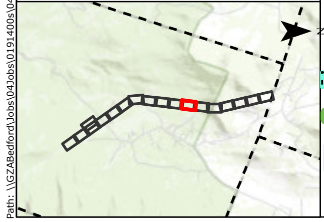

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X178 Transmission Line Structure Rebuild Project Access and Permitting Plans

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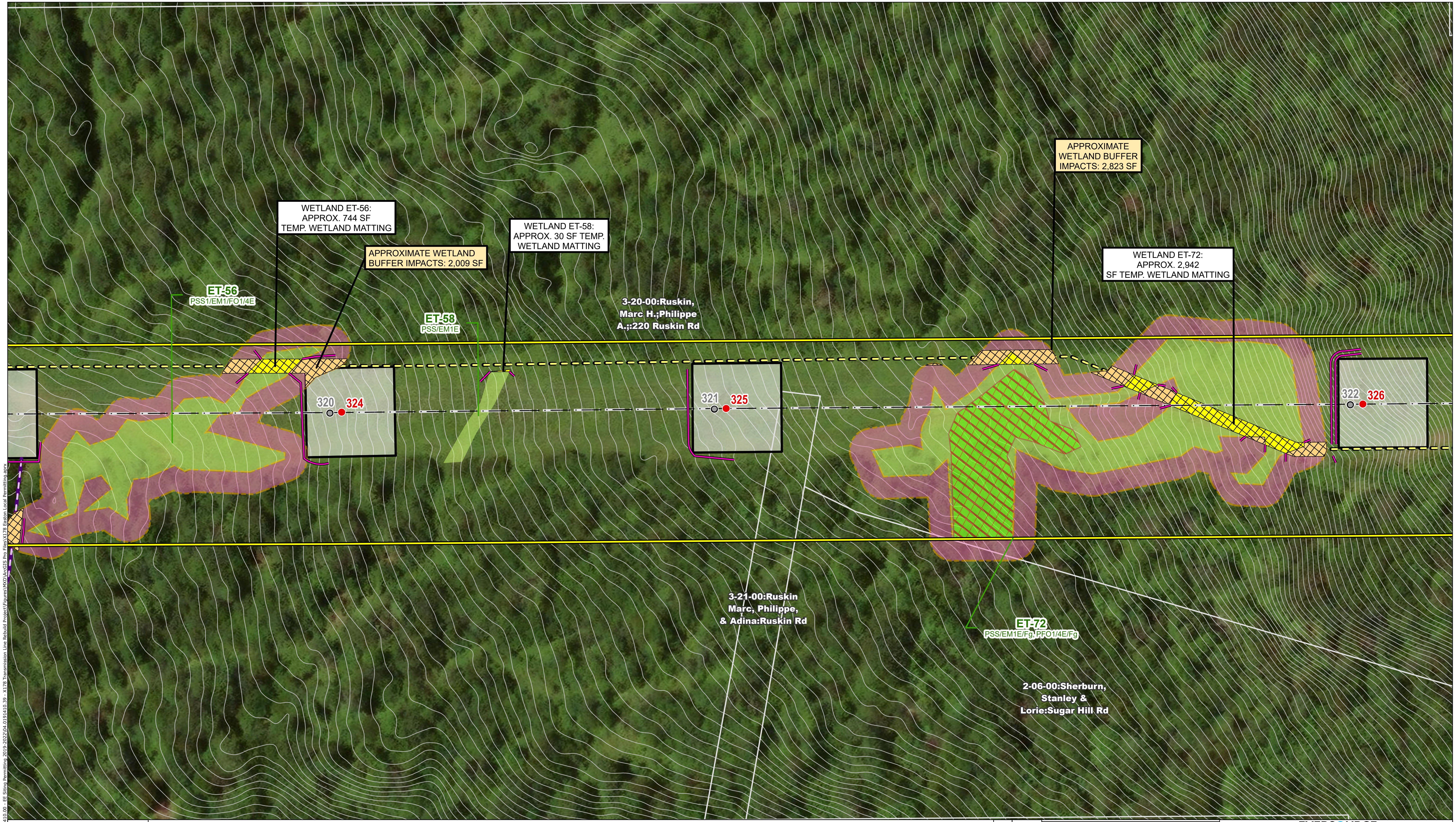

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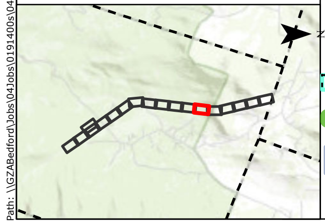

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X178 Transmission Line Structure Rebuild Project Access and Permitting Plans

EASTON, NH

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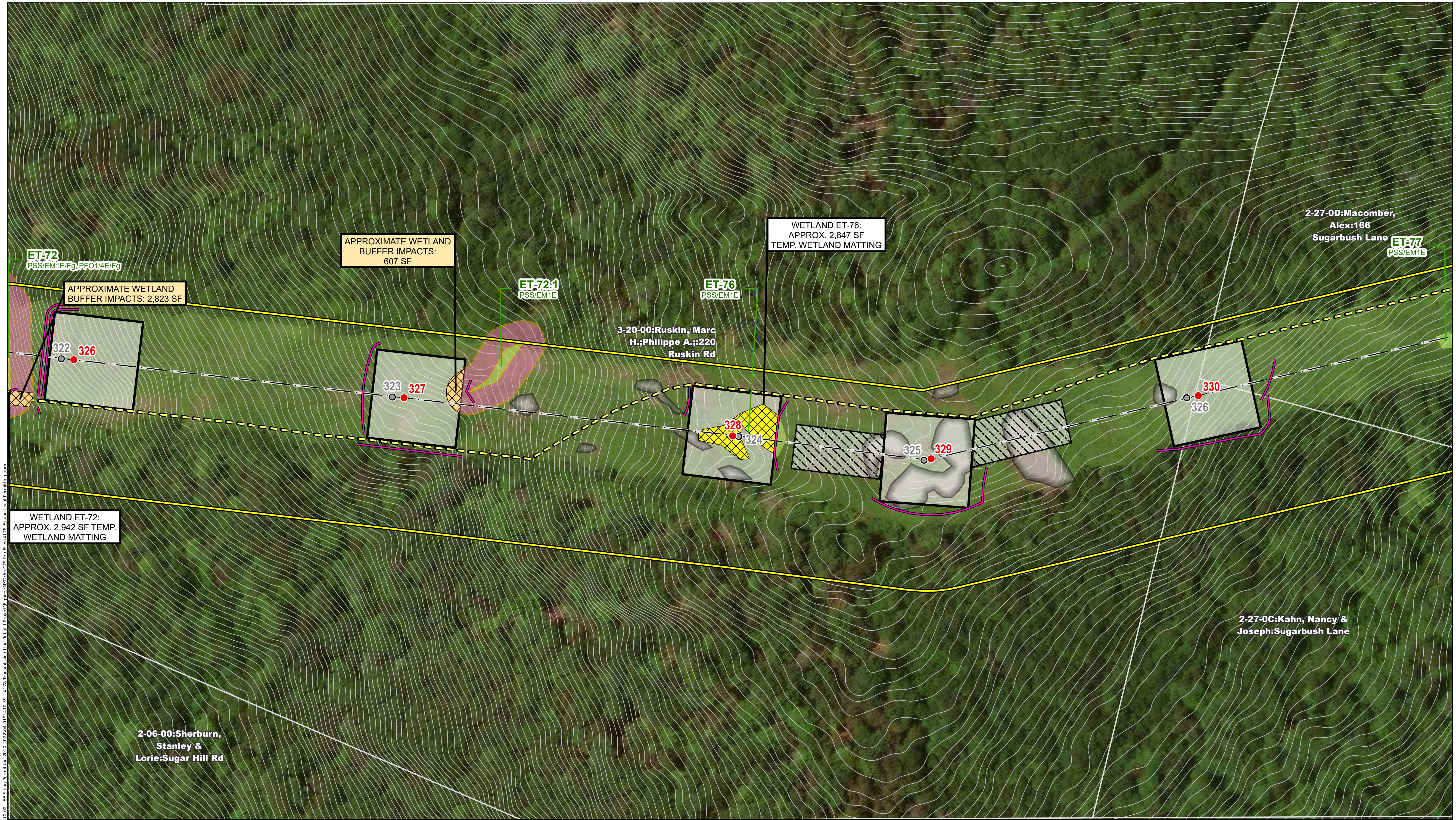

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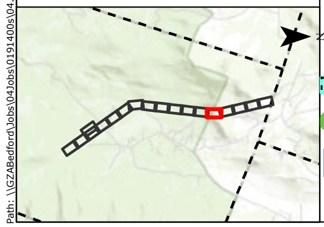

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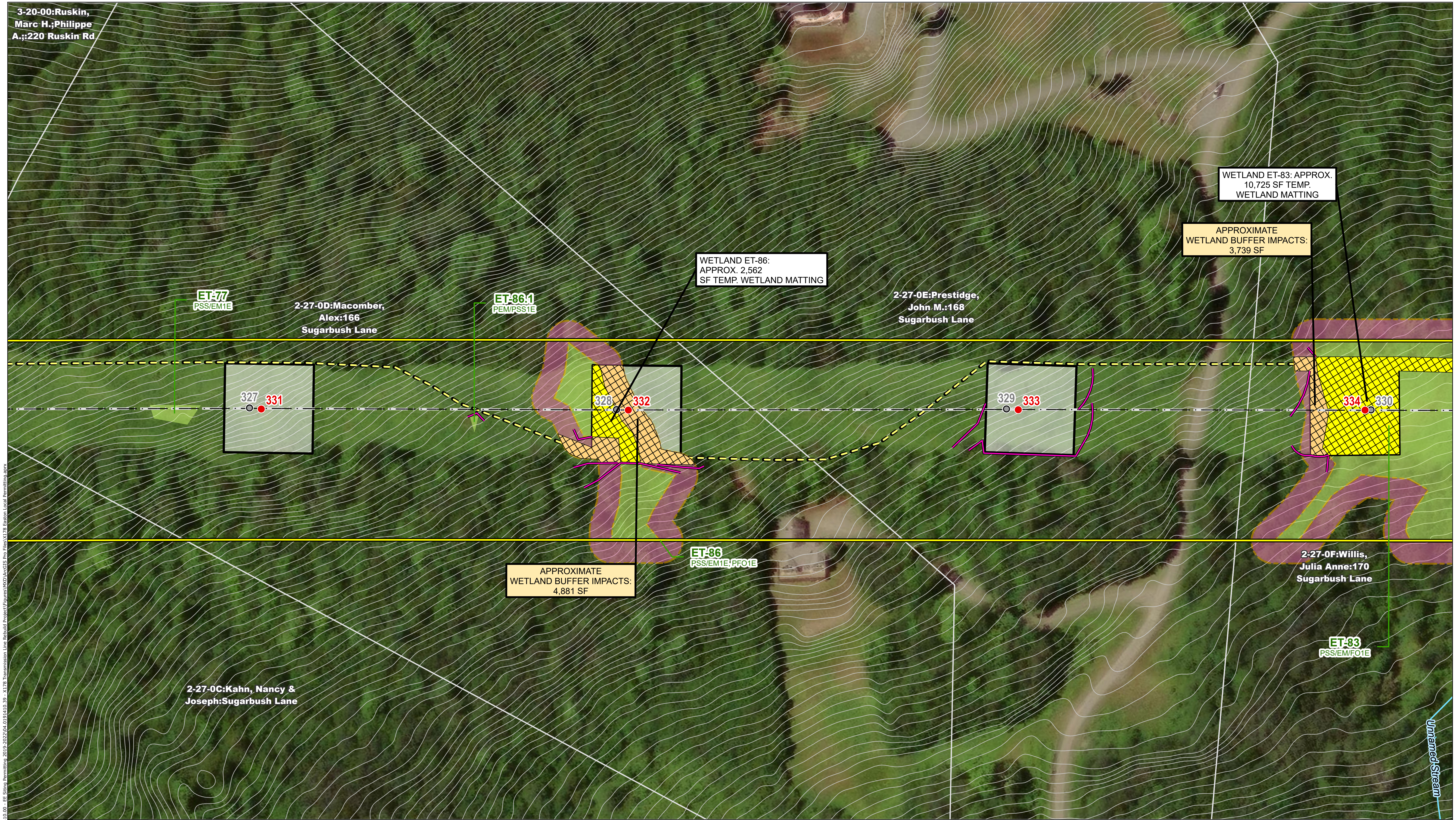

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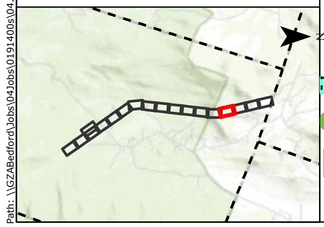

PROPOSED STRUCTURE	TRANSMISSION LINE	STONEWALL	NH RECREATIONAL TRAILS	TOWN MAINTAINED ROAD
STRUCTURE TO BE REMOVED	TRANSMISSION LINE ROW	CONFIRMED VERNAL POOL	DELINEATED PERENNIAL STREAM	PARCEL BOUNDARY
EXISTING STRUCTURE - NO WORK	EXTENT OF WETLAND DELINEATION	PROPOSED ACCESS	DELINEATED INTERMITTENT STREAM	VERY POORLY DRAINED SOILS
PROPOSED LAYDOWN AREA	TEMPORARY UPLAND MATTING	OFF ROW PENDING RIGHTS	NHD FLOWLINES	FIELD DELINEATED WETLAND
WHITE MOUNTAIN NATIONAL FOREST BOUNDARY	TEMPORARY WETLAND MATTING	EXISTING ACCESS	NHDOT ROAD	2FT CONTOURS
GATE	WETLAND BUFFER IMPACTS	WORK PAD	FEDERAL ROAD	PERIMETER CONTROLS (SILT FENCE, SILT FENCE WITH HAY BALE, OR STRAW WATTLE)
CULVERT	LOCAL WETLAND BUFFER	PULL PADS	PRIVATE ROAD	TOWN BOUNDARY
		APPROX. LEDGE/BOULDER OUTCROP		

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EASTON, NH

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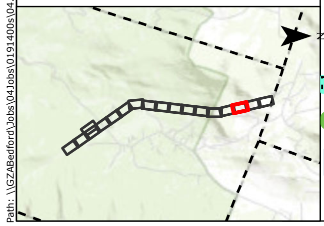

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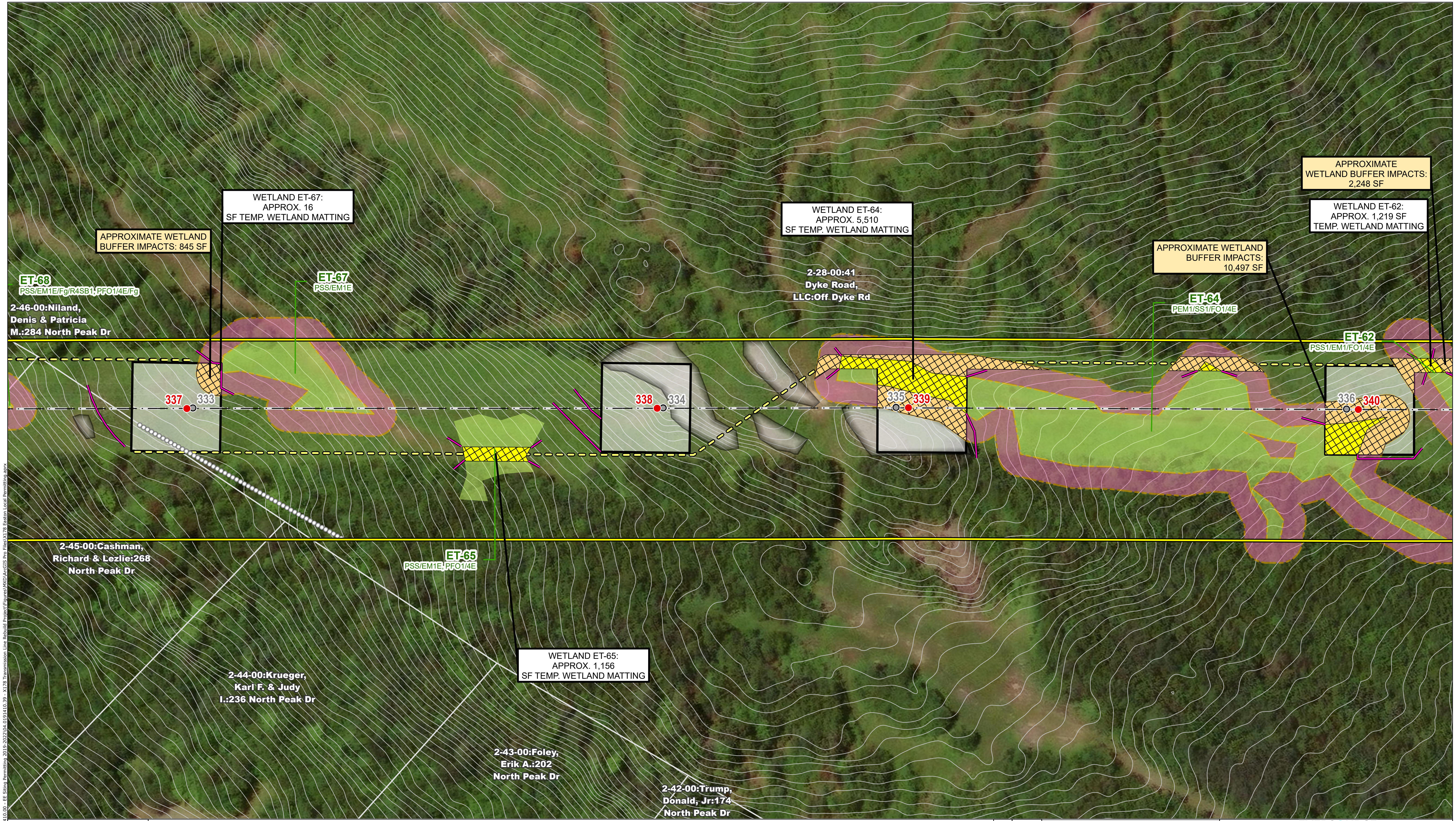

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0 50 100 Feet

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

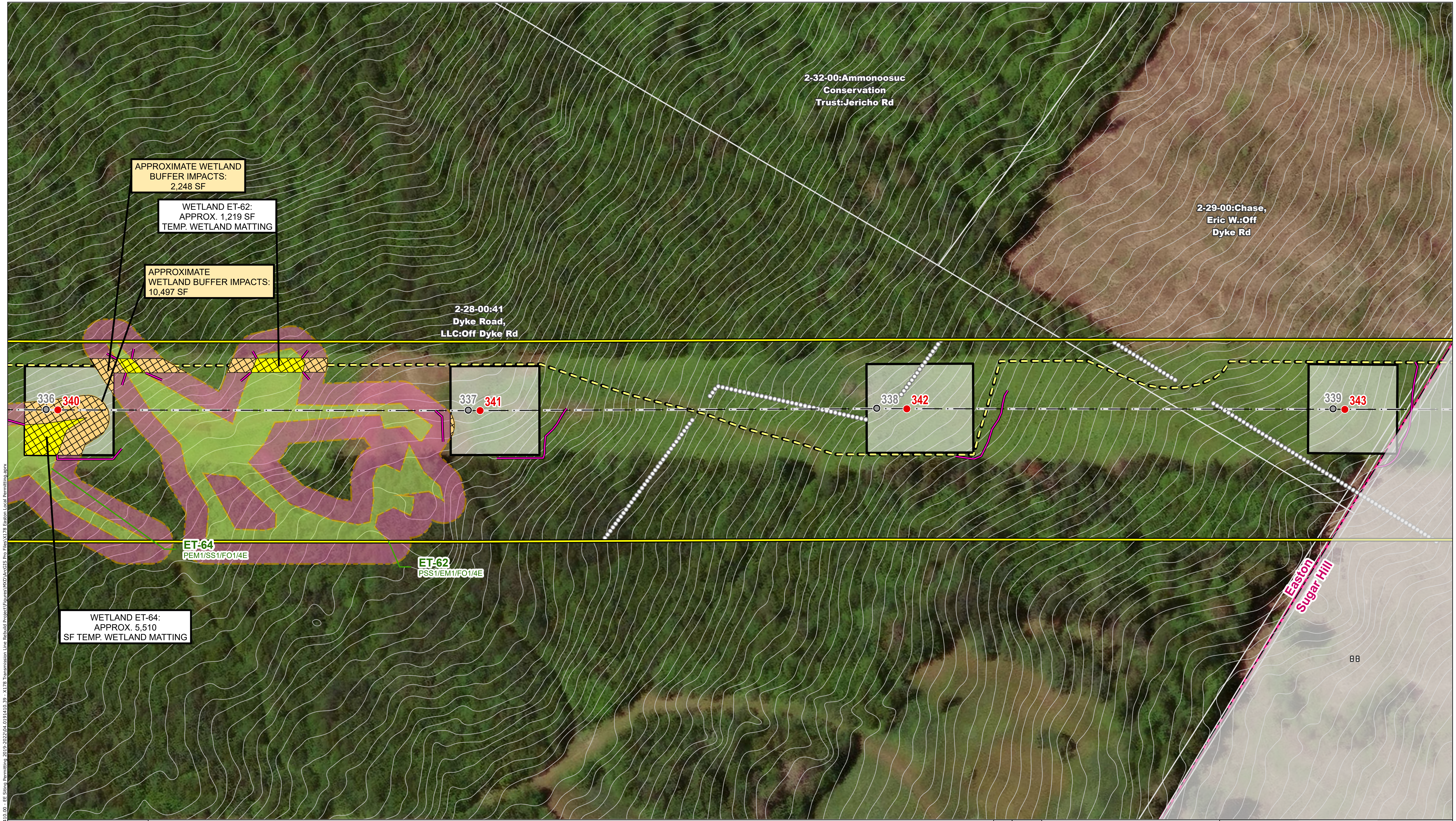
EASTON, NH

MAP SHEET

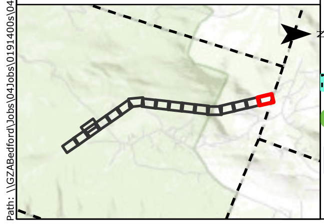
Date: November 12, 2024

17 OF 18

04.0191410.39



INDEX MAP



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

N

1 in =100 ft

0 50 100 Feet

NO.	DATE	REVISIONS

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EVERSOURCE ENERGY

X178 Transmission Line Structure Rebuild Project Access and Permitting Plans

EASTON, NH

Date: November 12, 2024

04.0191410.39

MAP SHEET

18 OF 18

CONSTRUCTION SEQUENCE:

1. WETLAND BOUNDARIES TO BE CLEARLY MARKED PRIOR TO THE START OF CONSTRUCTION.

2. CONDUCT A PRE-CONSTRUCTION MEETING WITH TEAM MEMBERS TO REVIEW PROJECT PERMITS AND CONDITIONS, AND A TRAINING OF POTENTIAL RARE, THREATENED AND ENDANGERED SPECIES SHALL BE CONDUCTED BY EVERSOURCE/GZA.

3. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL PROVIDED, AS NECESSARY, AND CONSISTENT WITH THE NHDES MARCH 2019 BMP MANUAL FOR UTILITY MAINTENANCE.

4. WETLAND IMPACTS ASSOCIATED WITH WETLAND CROSSINGS ARE REQUIRED FOR ACCESS BETWEEN STRUCTURES WITHIN THE RIGHT OF WAY. LOOK FOR FIELD FLAGGING AND REFER TO PROJECT PLANS FOR THESE LOCATIONS.

5. INSTALL PROPER CONCRETE WASHOUT IN UPLANDS PRIOR TO CONCRETE POURS AT UPLAND STRUCTURE 175.

6. ADEQUATE PRECAUTION SHALL BE EXERCISED TO AVOID SPILLAGE OF FUEL OILS, CHEMICALS, OR SIMILAR SUBSTANCES; NO FUELS, LUBRICANTS, CHEMICALS OR SIMILAR SUBSTANCES SHALL BE STORED BENEATH TREES OR IN THE VICINITY OF ANY WETLANDS, RIVER, STREAM OR OTHER BODY OF WATER; OR IN THE VICINITY OF NATURAL OR MAN-MADE CHANNELS LEADING THERETO. NO POWER EQUIPMENT SHALL BE STORED, MAINTAINED, OR FUELED IN ANY AREA ADJACENT TO A WETLAND, RIVER, STREAM OR OTHER BODY OF WATER.

7. REMOVE COMPLETELY ALL CONTAMINATION FROM ANY SPILLAGE OF CHEMICALS OR PETROLEUM PRODUCT AND COMPLETE REHABILITATION OF THE AFFECTED AREA.

8. ACCESS ROUTES HAVE BEEN SELECTED TO PREVENT DEGRADATION OF THE RIGHT-OF-WAY AND MINIMIZE ENVIRONMENTAL IMPACT. OPERATIONS SHALL BE CONFINED TO THE SPECIFIED ACCESS ROUTES WITHIN THE PROPOSED WETLAN IMPACT AREA. ACCESS ROUTES SHALL NOT EXCEED A 16 FOOT-WIDTH.

9. IMPACT TO VEGETATION WITHIN WETLANDS WILL BE LIMITED TO THE EXTENT NECESSARY TO PLACE THE TIMBER MATS WHERE REQUIRED.

10. LOW GROWING VARIETIES OF VEGETATION ADJACENT TO WETLANDS SHALL BE PRESERVED TO THE EXTENT POSSIBLE. STUMPS SHALL NOT BE REMOVED, AND THERE SHALL BE NO EXCAVATIONS, FILLS OR GRADING DONE ADJACENT TO WETLANDS, UNLESS MINOR EXCAVATIONS OR GRADING IS NEEDED FOR ACCESS OR WORK PADS AND THEN ONLY WITHIN LIMITS SHOWN ON PROJECT PLANS.

11. PRIOR TO INSTALLATION OF TIMBER MATS, MATS AND HEAVY MACHINERY USED TO INSTALL THEM SHALL BE INSPECTED FOR AND CLEANED OF ALL VEGETATIVE MATTER BY A METHOD AND IN A LOCATION THAT PREVENTS THE SPREAD OF VEGETATIVE MATTER TO JURISDICTIONAL AREAS. CONTRACTORS SHALL FOLLOW THE NHDOT BEST MANAGEMENT PRACTICES FOR THE CONTROL OF INVASIVE AND NOXIOUS PLANT SPECIES (2018)

12. TIMBER MATS AND PERIMETER CONTROLS WILL BE USED ALONG ACCESS ROUTES AND WORK PADS WITHIN WETLAND AREAS. THESE MATS ARE CONSTRUCTED OF HEAVY TIMBERS OR COMPOSITE MATERIAL, BOLTED TOGETHER, AND ARE PLACED END-TO-END IN THE WETLAND TO SUPPORT HEAVY EQUIPMENT. ALL TIMBER MATS SHALL BE PLACED AND REMOVED SO AS NOT TO CAUSE ANY RUTS, CHANNELS OR DEPRESSIONS, OR OTHERWISE CAUSE ANY UNDUE DISTURBANCE TO WETLANDS.

13. PRIOR TO TIMBER MATTING PLACEMENT IN WETLANDS, WORK AREAS SHALL BE SWEPT BY A QUALIFIED INDIVIDUAL WHO HAS GONE THROUGH RARE SPECIES TRAINING CONDUCTED BY A QUALIFIED BIOLOGIST OR HERPETOLOGIST. AN ENVIRONMENTAL MONITOR SHALL CONDUCT SWEEPS DURING WEEKLY EROSION AND SEDIMENT CONTROL INSPECTIONS.

14. IN UPLANDS, ADDITIONAL BMP'S MAY INCLUDE THE PLACEMENT OF GEOTEXTILE FABRIC, 3"-4" STONE, AND GRAVEL TO PROVIDE A SUITABLE ROAD BED. MATTING SHALL BE INSTALLED IN A MANNER TO BRIDGE STREAM CHANNELS. TEMPORARY CULVERTS MAY BE REQUIRED IN AREAS OF HIGH FLOW TO MAINTAIN HYDROLOGIC CONNECTIVITY. ALL MATERIAL WILL BE REMOVED FROM JURISDICTIONAL AREAS AFTER CONSTRUCTION COMPLETION.

15. IN WETLAND SH-46.1 WHERE TEMPORARY GRADING IS PROPOSED DUE TO STEEP SLOPES, ORGANIC SOILS ARE TO BE REMOVED AND TEMPORARILY STOCKPILED OUT OF JURISDICTIONAL WETLANDS TO BE USED TO RESTORE WETLANDS AFTER COMPLETION OF CONSTRUCTION. FILTER FABRIC TO BE PLACED IN PROPOSED ACCESS AS A BARRIER FOR PLACEMENT OF STONE FOR A TEMPORARY ROAD BASE.

16. NO MATERIAL SHALL BE PLACED IN ANY LOCATION OR IN ANY MANNER SO AS TO IMPAIR SURFACE WATER FLOW INTO, THROUGH OR OUT OF ANY WETLAND AREA. NO INSTALLATION SHALL CREATE AN IMPOUNDMENT THAT WILL IMPEDE THE FLOW OF WATER OR CAUSE FLOODING.

17. INSTALL CHECK DAMS ALONG ACCESS ROUTES WHERE NECESSARY.

18. NO MATERIAL SHALL BE TAKEN FROM THE WETLANDS AREA EXCEPT THAT WHICH MUST NECESSARILY BE REMOVED FOR THE STRUCTURE OR FOUNDATION PLACEMENT OR STABILIZATION. ALL EXCESS MATERIAL TAKEN FROM THE WETLAND WILL BE REMOVED FROM THE SITE.

19. CONDUCT DRILLING ACTIVITIES, INCLUDING DRILLING OF APPROXIMATELY 4-FT DIAMETER HOLES FOR CAISSON PLACEMENT, APPROXIMATELY 7-15-FT BELOW GROUND SURFACE.

20. DISCHARGE OF DEWATERING WATER SHOULD NOT BE DIRECTED TOWARDS SURFCE WATERS IDENTIFIED BY NHDES AS TIER 2, TIER 2.5, OR TIER 3 WITHOUT PRIOR AUTHORIZATION FROM EVERSOURCE. SUCH ACTIVITIES TRIGGER TURBIDITY MONITORING AND REPORTING REQUIREMENTS AS OUTLINED IN SECTION 3.3 OF THE 2022 EPA CONSTRUCTION GENERAL PERMIT. TIER 2, TIER 2.5, AND TIER 3 SURFACE WATERS ARE CONSIDERED ALL SURFACE WATERS INCLUDING LAKES, PONDS, MARSHES, AND TIDAL WATERS AS DEFINED BY ENV-WT 104.33. DEWATERING WATER SHOULD BE DIRECTED AWAY FROM SURFACE WATERS, OR BE DISCHARGED TO A VAC TRUCK, POLY TANK, OR UPLAND BASIN, AS APPROVED BY EVERSOURCE. OTHERWISE, TURBIDITY MONITORING DURING DEWATERING ACTIVITIES WILL BE REQUIRED.

21. ANY PROPOSED SUPPORT FILLS SHALL BE CLEAN GRAVEL AND STONE, FREE OF WASTE METAL PRODUCTS, ORGANIC MATERIALS AND SIMILAR DEBRIS AND SHALL NOT EXCEED THE AMOUNT PERMITTED. THIS ALLOWABLE FILL IS THE ONLY FILL THAT MAY REMAIN IN THE WETLAND AFTER CONSTRUCTION. ALL CUT AND FILLS SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.

22. POUR CONCRETE FOUNDATIONS AT STRUCTURE 175.

23. CONDUCT STRUCTURE REPLACEMENT ACTIVITIES, INCLUDING INSTALLATION OF NEW STRUCTURES AS INDICATED ON PLANS.

24. WIRE INSTALLATION WILL BE PERFORMED IN A MANNER SO AS TO AVOID, OR LIMIT TO THE MAXIMUM EXTENT POSSIBLE, TRAVERSING WETLANDS WITH HEAVY EQUIPMENT. IN SOME CASES, A HELICOPTER MAY BE USED DURING THE INSTALLATION TO MINIMIZE IMPACTS.

25. REMOVAL OF THE OLD POLE WILL OCCUR ONCE THE WIRE HAS BEEN INSTALLED ON THE NEW STRUCTURE. EXISTING STRUCTURES IN WETLANDS ARE TYPICALLY CUT AND POLE BUTTS LEFT IN PLACE, WHILE STRUCTURES IN UPLANDS MAY BE REMOVED FROM THE GROUND.

26. ALL TIMBER MATS, MATERIAL, AND DEBRIS WILL BE REMOVED FROM THE WORK AREA UPON THE COMPLETION OF CONSTRUCTION.

27. UNLESS APPROVED AS PERMANENT IMPACT, TIMBER MATS MUST ONLY BE INSTALLED FOR ONE GROWING SEASON. TIMBER MATS INSTALLED DURING THE ACTIVE GROWING SEASON (MAY 1 TO OCTOBER 1) MUST BE REMOVED PRIOR TO THE START OF THE FOLLOWING GROWING SEASON (BY APRIL 30 LATEST).

28. UPLAND DISTURBED AREAS SHALL BE RESTORED AND STABILIZED UPON COMPLETION OF CONSTRUCTION. WORK PAD RESTORATION SHOULD INCLUDE REDUCING THE WORK PAD TO A 30 BY 60 FOOT AREA, AND REDUCING SLOPES TO A MAXIMUM OF 25%. STOCKPILED MATERIAL SHOULD BE SPREAD TO REDUCE ANY UNNECESSARY SLOPES. GRAVEL WORK PADS AND SLOPES SHOULD BE SCARIFIED TO A MINIMUM OF 3" BEFORE SPREADING TOPSOIL/LOAM. DISTURBED UPLANDS SHALL BE SEEDED WITH A GRASS MIX.

29. TEMPORARY WETLAND IMPACTS WILL BE RE-GRADED TO ORIGINAL CONTOURS TO THE GREATEST EXTENT PRACTICABLE FOLLOWING CONSTRUCTION. EROSION CONTROL/RESTORATION SEED MIX WILL BE APPLIED AS NECESSARY IF THE SURROUNDING NATIVE SEED BANK DOES NOT RESULT IN ADEQUATE VEGETATIVE COVER.

30. MULCH USED FOR STABILIZATION SHALL CONSIST OF SEEDLESS STRAW.

31. SEDIMENT AND EROSION CONTROL MEASURES WILL BE EVALUATED AND REMOVED IF NECESSARY UPON THE COMPLETION OF CONSTRUCTION.

32. UNLESS OTHERWISE REQUESTED BY UNDERLYING PROPERTY OWNERS AND APPROVED BY EVERSOURCE, COMMERCIAL LOAM WILL NOT BE USED AS PART OF RESTORATION. ONLY IN-SITU TOPSOIL WILL BE USED TO RESTORE DISTURBED AREAS.

WINTER CONSTRUCTION NOTES:

1. PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED. STABILIZATION METHODS SHALL INCLUDE SEEDING AND MULCH, AND INSTALLATION OF EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.

2. DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE TEMPORARILY STABILIZED WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
3. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL (NHDOT 304.3).

4. PROJECTS IN WHICH THERE IS AN ACTIVE NOI AND CONSTRUCTION IS COMPLETED BETWEEN OCTOBER 15 AND APRIL 31 MUST BE MONITORED FOR A MINIMUM OF 70% VEGETATIVE GROWTH IN ORDER TO SUBMIT A NOT THROUGH THE EPA.

GENERAL NOTES:

OWNER: EVERSOURCE ENERGY
13 LEGENDS DRIVE
HOOKSETT, NH 03106

1. BASE PLAN PROVIDED BY EVERSOURCE ENERGY. EVERSOURCE ENERGY PROVIDED THE UTILITY DESIGN.

2. JURISDICTIONAL WETLANDS WERE DELINEATED BY OTHERS AND CONFIRMED BY GZA GEOENVIRONMENTAL, INC. IN 2023, IN ACCORDANCE WITH THE 1987 U.S. ARMY CORPS OF ENGINEERS' "WETLANDS DELINEATION MANUAL, TECHNICAL REPORT Y-87-1," AND REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTH CENTRAL AND NORTHEAST REGION," JANUARY 2012. WETLANDS WILL BE REVIEWED BY GZA GEOENVIRONMENTAL, INC. PRIOR TO START OF WORK.

3. GZA EVALUATED WETLANDS AS POTENTIAL VERNAL POOLS IN 2023 IN ACCORDANCE WITH "IDENTIFICATION AND DOCUMENTATION OF VERNAL POOLS IN NEW HAMPSHIRE," 2016, NEW HAMPSHIRE FISH AND GAME DEPARTMENT, NONGAME AND ANDANGERED WILDLIFE PROGRAM.

4. SITE PLAN IS FOR PERMITTING PURPOSES ONLY AND DOES NOT REPRESENT A PROPERTY BOUNDARY SURVEY.

5. THE PROJECT WILL BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800, AS WELL AS SECTION 2.10 OF THE NHDES BEST MANAGEMENT PRACTICES MANUAL FOR UTILITY MAINTENANCE IN AND ADJACENT TO WETLANDS AND WATERBODIES IN NEW HAMPSHIRE RELATIVE TO INVASIVE SPECIES.

6. IN ACCORDANCE WITH ENV-WQ 1505.02, THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
- A MINIMUM 85 PERCENT VEGETATED GROWTH HAS BEEN ESTABLISHED
- A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL HAS BEEN INSTALLED
- OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

EROSION CONTROL/RESTORATION NOTES:

1. INSTALLATION OF EROSION CONTROL GRINDINGS AND/OR SILT FENCES SHALL BE COMPLETE PRIOR TO THE START OF WORK IN ANY GIVEN AREA. EROSION CONTROLS SHALL BE USED DURING CONSTRUCTION AND REMOVED WHEN ALL SLOPES HAVE A HEALTHY STAND OF VEGETATION COVER. EROSION CONTROL MEASURES SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER .25" OR GREATER RAINFALL EVENTS.

2. AS REQUIRED, CONSTRUCT TEMPORARY BERMS, SILTATION FENCES, SEDIMENT TRAPS, ETC. TO PREVENT EROSION & SEDIMENTATION OF WETLANDS.

3. THE WORK AREA SHALL BE GRADED AND OTHERWISE SHAPED IN SUCH A MANNER AS TO MINIMIZE SOIL EROSION, SILTATION OF DRAINAGE CHANNELS, DAMAGE TO EXISTING VEGETATION, AND DAMAGE TO PROPERTY OUTSIDE LIMITS OF THE WORK AREA. EROSION CONTROL GRINDINGS WILL BE NECESSARY TO ACCOMPLISH THIS END.

4. ANY STRIPPED TOPSOIL SHALL BE STOCKPILED, WITHOUT COMPACTION, AND STABILIZED WITH BMPS.

5. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS, PLANT SUITABLE GRASS MIX PRIOR TO OCTOBER 15TH.

6. EROSION CONTROL MATTING, IF REQUIRED, WILL CONSIST OF JUTE MATTING. MATTING WITH WELDED PLASTIC OR 'BIODEGRADABLE PLASTIC' NETTING OR THREAD IS NOT PERMITTED.

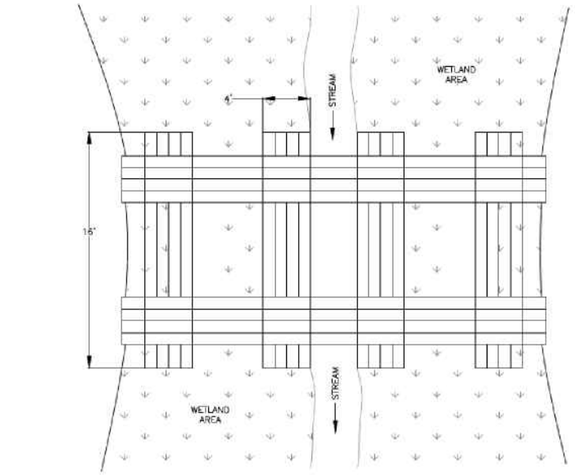
7. PER ENV-WT 307.03(C)(6), WATER QUALITY CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL DISTURBED SURFACES ARE STABILIZED TO A CONDITION IN WHICH SOILS ON THE SITE WILL NOT EXPERIENCE ACCELERATED OR UNNATURAL EROSION, SUCH AS ACHIEVING 85% OF GREATER VEGETATIVE COVER USIN AN EROSION CONTROL SEED MIX.

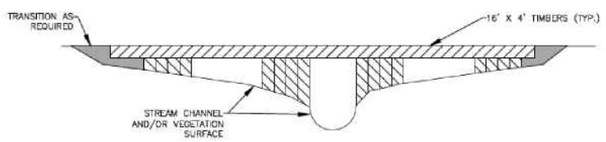
X178-2 TRANSMISSION LINE REBUILD
AND OPGW PROJECT

Easton, New Hampshire

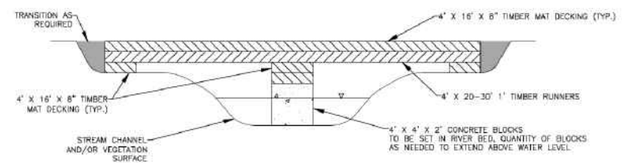
NOTES

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: EVERSOURCE ENERGY	
PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET S1
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 05/15/2024	PROJECT NO. 04.0191410.39	REVISION NO.	



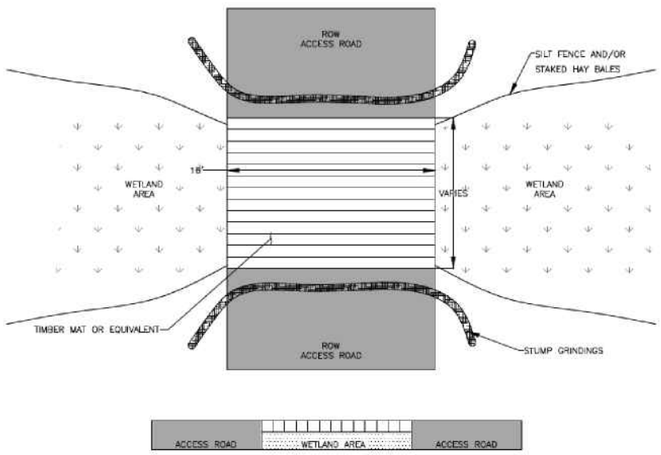


TYPICAL STREAM CROSSING
NOT TO SCALE



(WETLAND WS-63)

ALTERNATE STREAM CROSSING
NOT TO SCALE



TYPICAL WETLAND CROSSING
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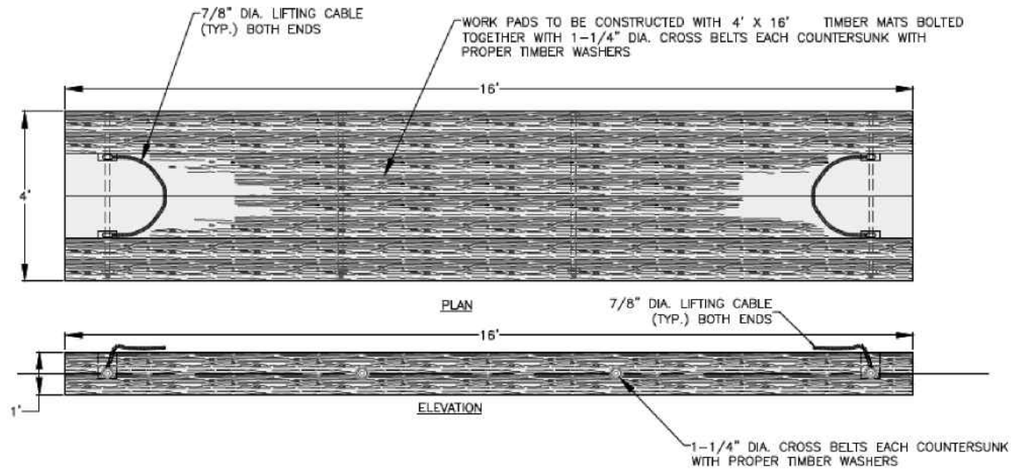
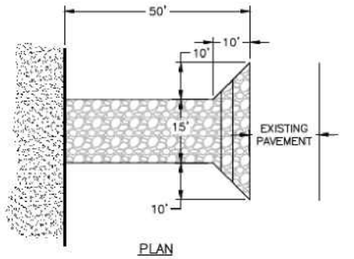


TYPICAL TIMBER MAT DETAIL
NOT TO SCALE



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.

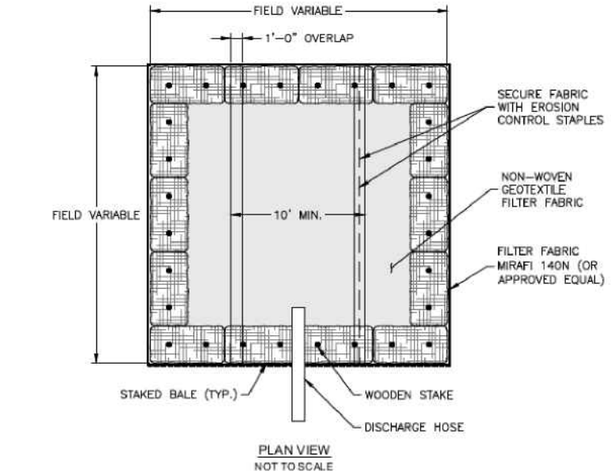
X178-2 TRANSMISSION LINE REBUILD
AND OPGW PROJECT
Easton, New Hampshire

BMP DETAILS

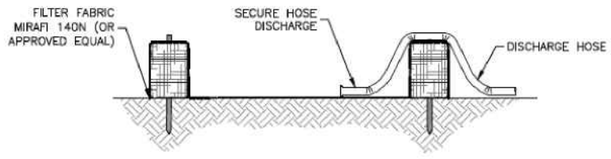
PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

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.	

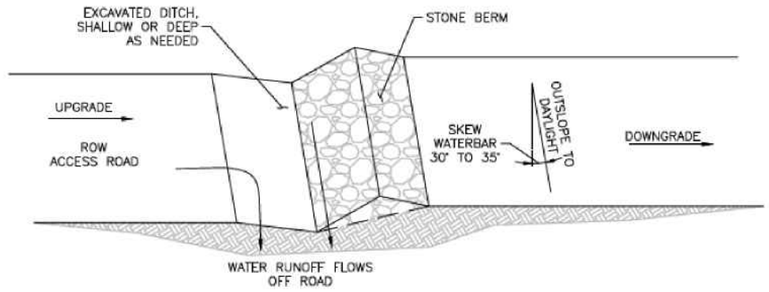


PLAN VIEW
NOT TO SCALE

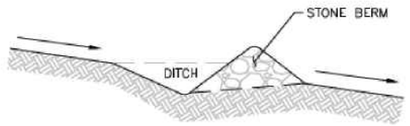


CROSS-SECTION
NOT TO SCALE

DEWATERING BASIN DETAIL



PLAN

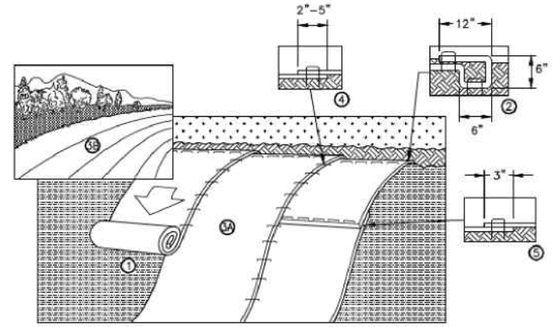


SECTION

TYPICAL WATER BAR DETAIL
NOT TO SCALE

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.



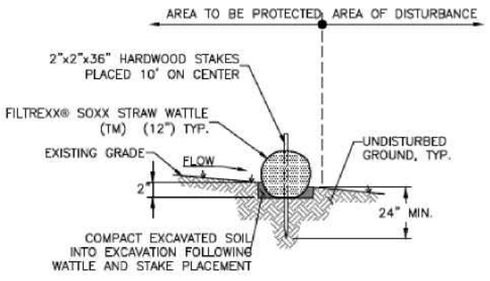
SLOPE INSTALLATION DETAIL OF EROSION CONTROL BLANKET
NOT TO SCALE

NOTES:

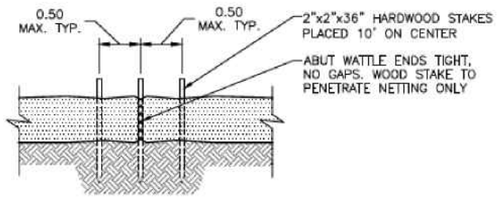
1. EROSION CONTROL BLANKET SHOULD BE INSTALLED VERTICALLY DOWNSLOPE.
2. STAKES/STAPLES SHOULD BE PLACED NO MORE THAN 3 FT. APART VERTICALLY AND 1 FT. APART HORIZONTALLY.
3. SLOPE SURFACES SHOULD BE FREE OF DEBRIS, INCLUDING STICKS, ROCKS AND OTHER OBSTRUCTIONS.
4. BLANKETS SHOULD BE ROLLED OUT LOOSELY 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.



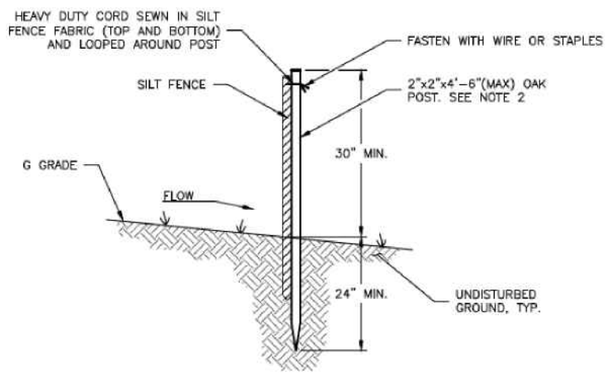
STRAW WATTLE DETAIL
NOT TO SCALE



STRAW WATTLE OVERLAP
NOT TO SCALE

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 ¼ INCHES.



SILT FENCE 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.

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

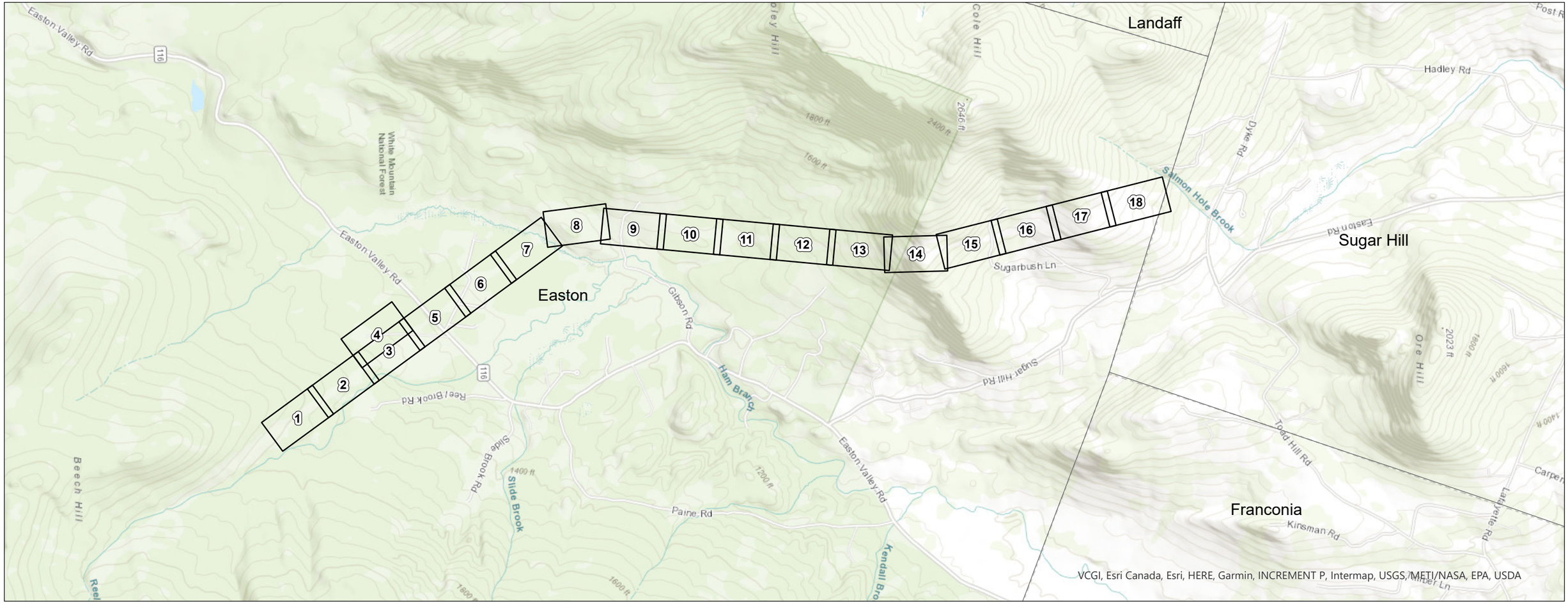
PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET S3
DESIGNED BY: HP	DRAWN BY: LEW	SCALE:	
DATE: 4/4/2024	PROJECT NO. 04.0191410.39	REVISION NO.	

Figure 3 – Town of Easton Steep Slope Plans

X178-2 Transmission Line Structure Rebuild Project

EASTON, NEW HAMPSHIRE
Town of Easton Steep Slope Plans

Date: November 12, 2024



PREPARED FOR:

EVERSOURCE ENERGY

13 Legends Drive
Hooksett, NH 03106

N

0 0.17 0.35 0.7 Miles

INDEX OF FIGURES

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PREPARED BY:

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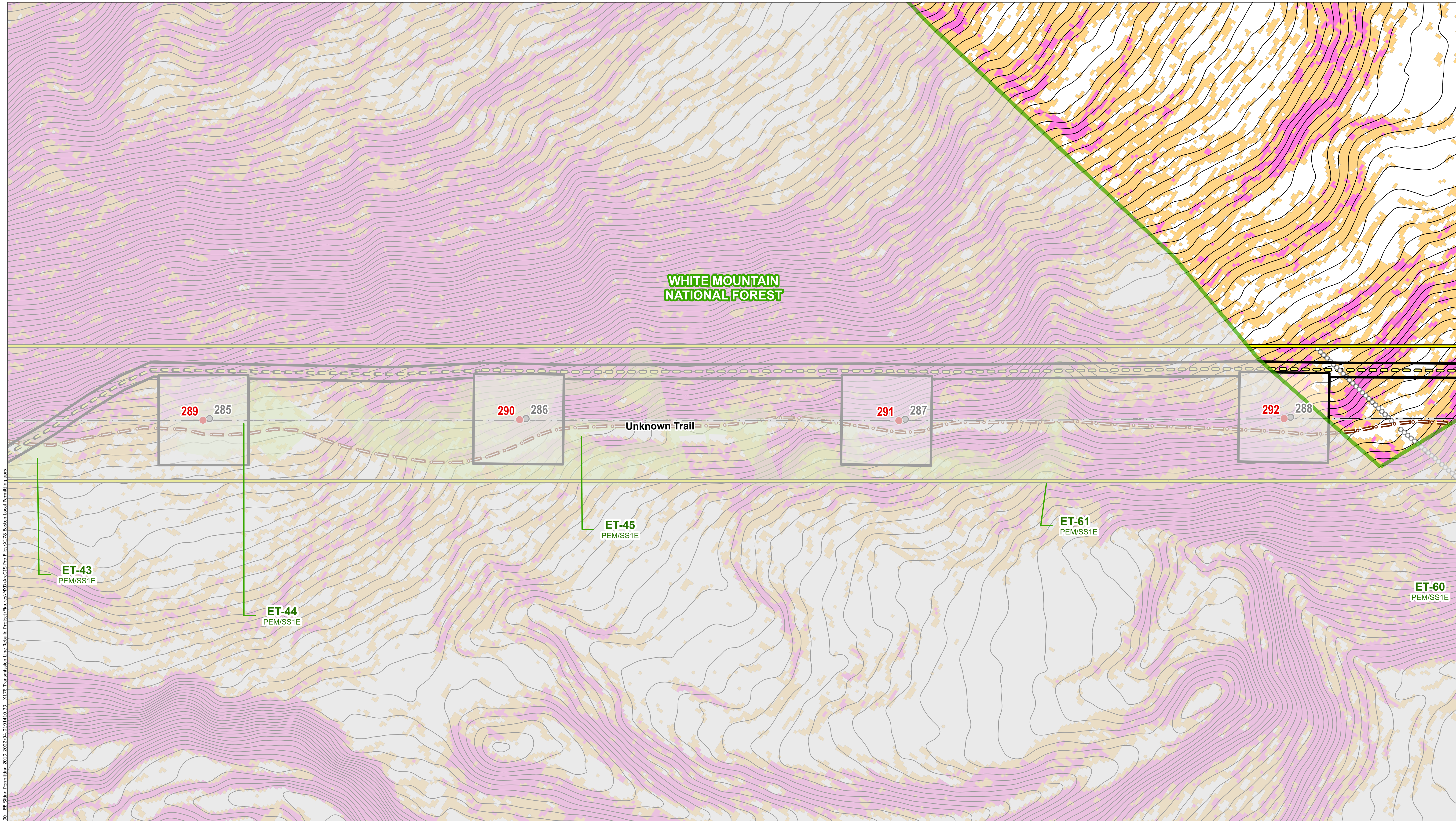

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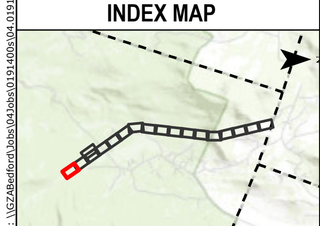

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- 2FT CONTOURS
- AREA TO BE GRADED
- TOWN BOUNDARY

SLOPE

- 0-15%
- 15-25%
- >25%

1 in =100 ft

0 50 100 Feet

NO.	DATE	REVISIONS

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X178 Transmission Line Structure Rebuild Project Steep Slope Plans

EASTON, NH

Date: November 12, 2024

04.0191410.39

MAP SHEET

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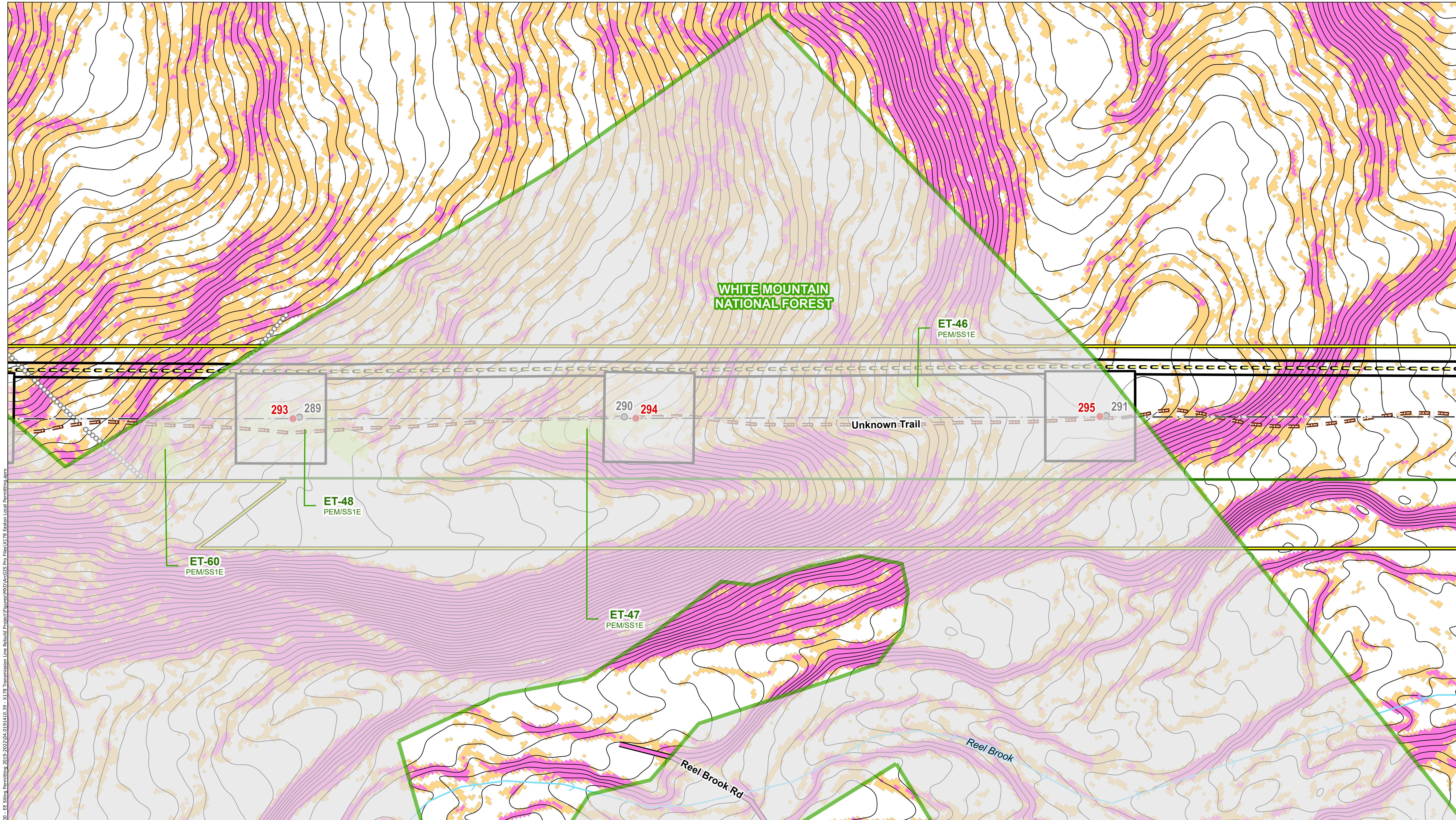

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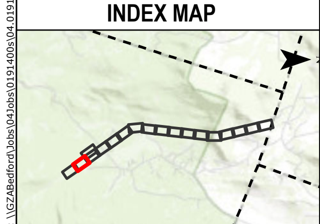

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X178 Transmission Line
Structure Rebuild Project
Steep Slope Plans

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WHITE MOUNTAIN NATIONAL FOREST

292 296

297 293

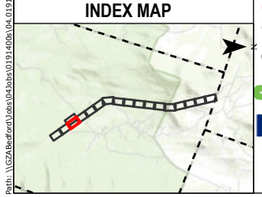
298 294

Unknown Trail

Reel Brook

WHITE MOUNTAIN NATIONAL FOREST

INDEX MAP



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NO.	DATE	REVISIONS

EVERSOURCE ENERGY

X178 Transmission Line Structure Rebuild Project Steep Slope Plans

EASTON, NH

Date: November 12, 2024

04.0191410.39

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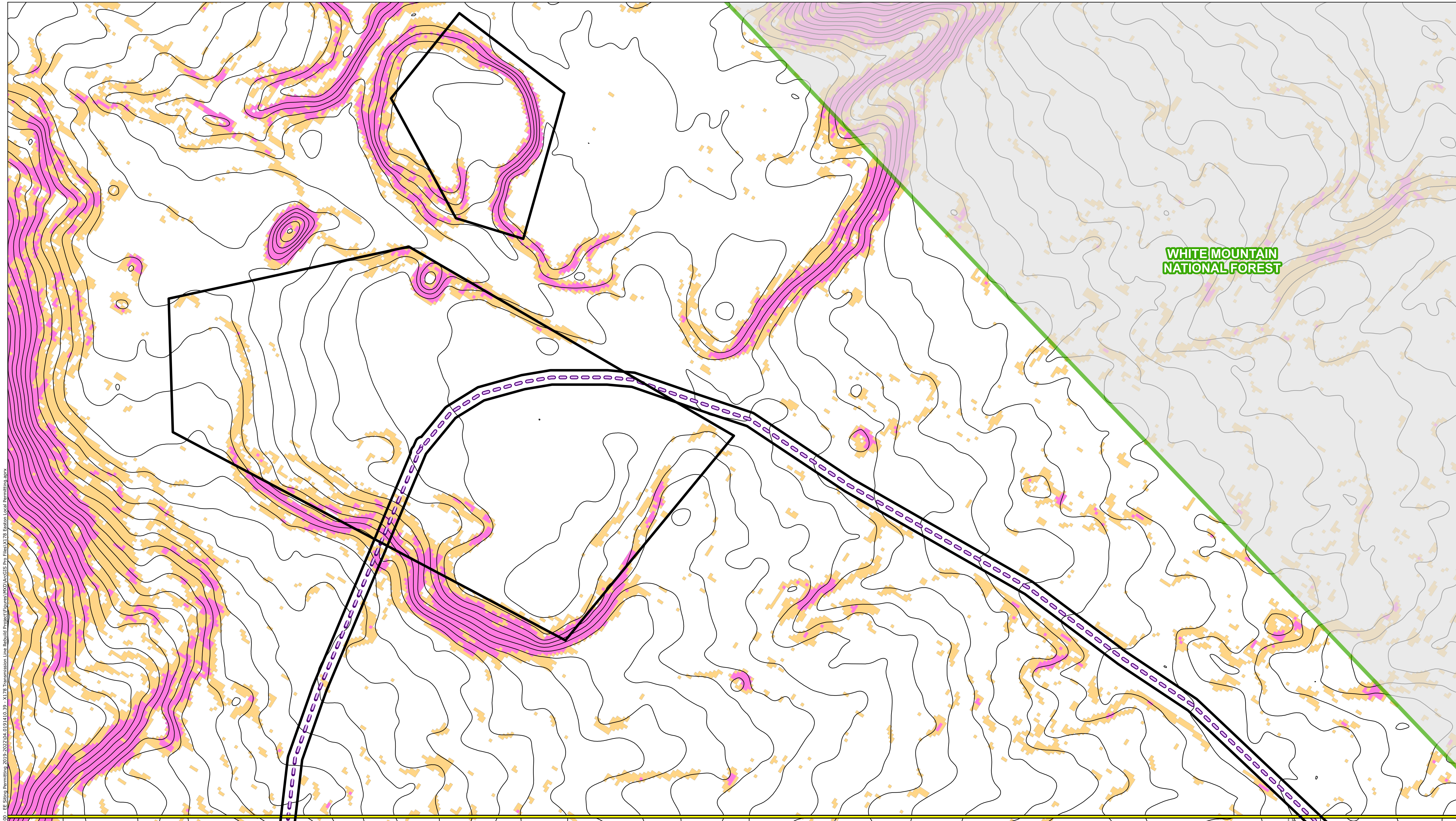

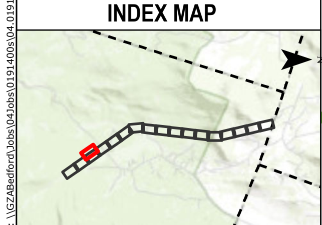

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X178 Transmission Line
Structure Rebuild Project
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EASTON, NH	MAP SHEET
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WHITE MOUNTAIN NATIONAL FOREST

Easton Valley Rd

Unknown Trail

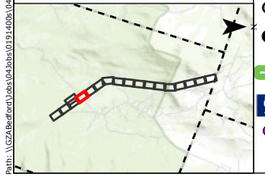
Gingerbread Rd

Mountain View Dr

Vista Ln

295 299 296 300 301 297 298 302

INDEX MAP



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X178 Transmission Line Structure Rebuild Project Steep Slope Plans

EASTON, NH | MAP SHEET

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Gingerbread Rd

Gingerbread Rd Ext

Mountain View Dr

WHITE MOUNTAIN NATIONAL FOREST

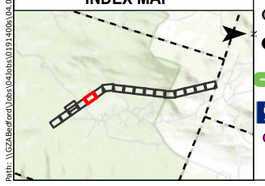
ET-31
PSS2/4/EM1Fg/R2UB

303 299

304 300

305 301

INDEX MAP



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X178 Transmission Line Structure Rebuild Project Steep Slope Plans

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WHITE MOUNTAIN NATIONAL FOREST

ET-31
PSS2/4/EM1Fg/R2UB

Ham Branch

305 301 302 306 303 307

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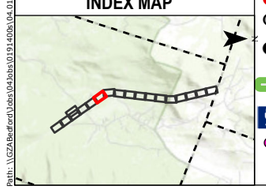

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EVERSOURCE ENERGY

X178 Transmission Line Structure Rebuild Project Steep Slope Plans

EASTON, NH | MAP SHEET

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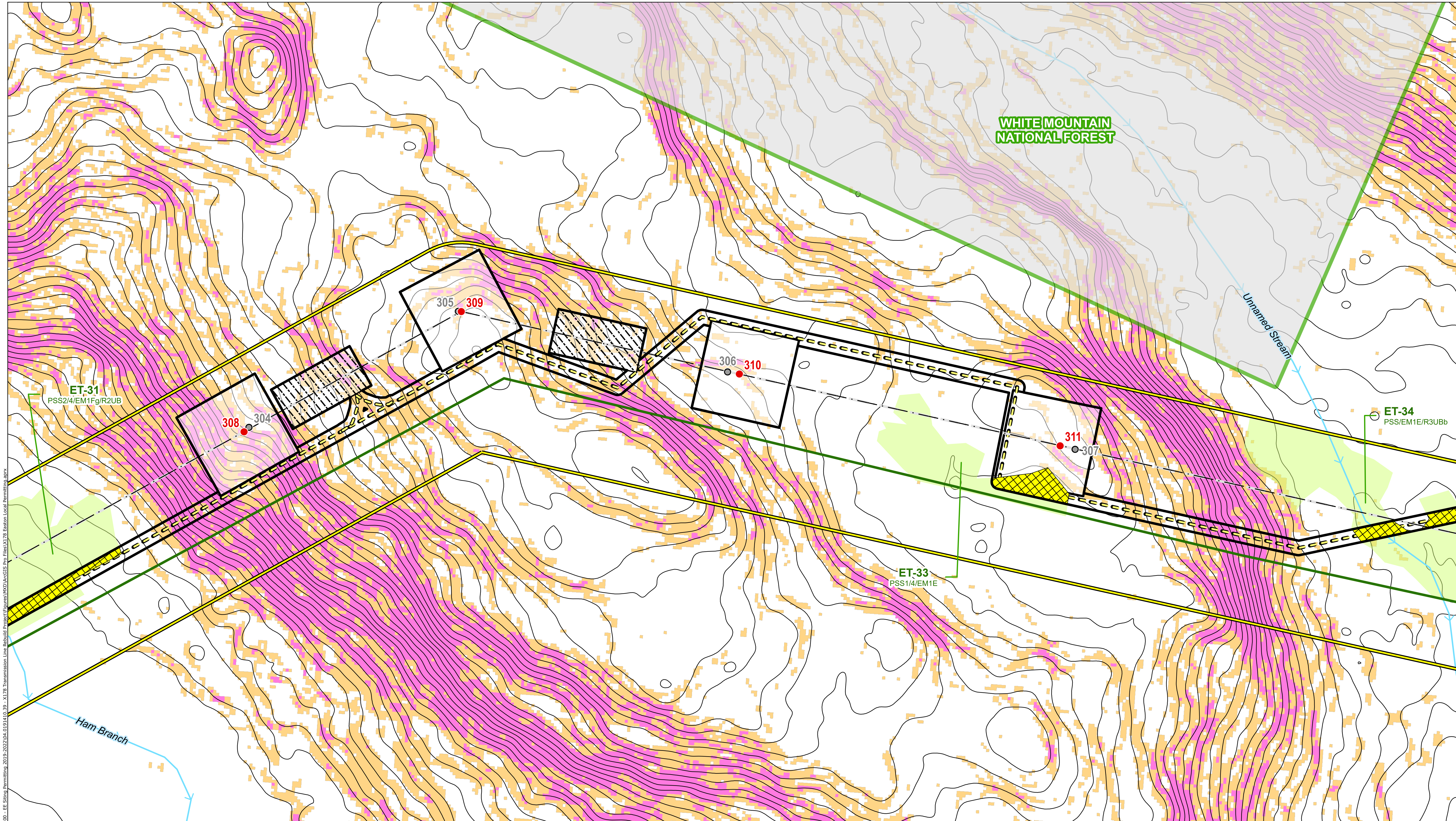

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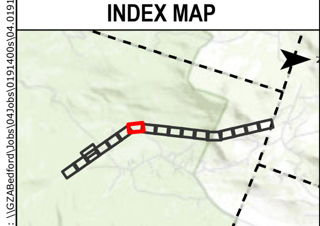

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SLOPE

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N

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EVERSOURCE ENERGY

X178 Transmission Line Structure Rebuild Project Steep Slope Plans

EASTON, NH

MAP SHEET

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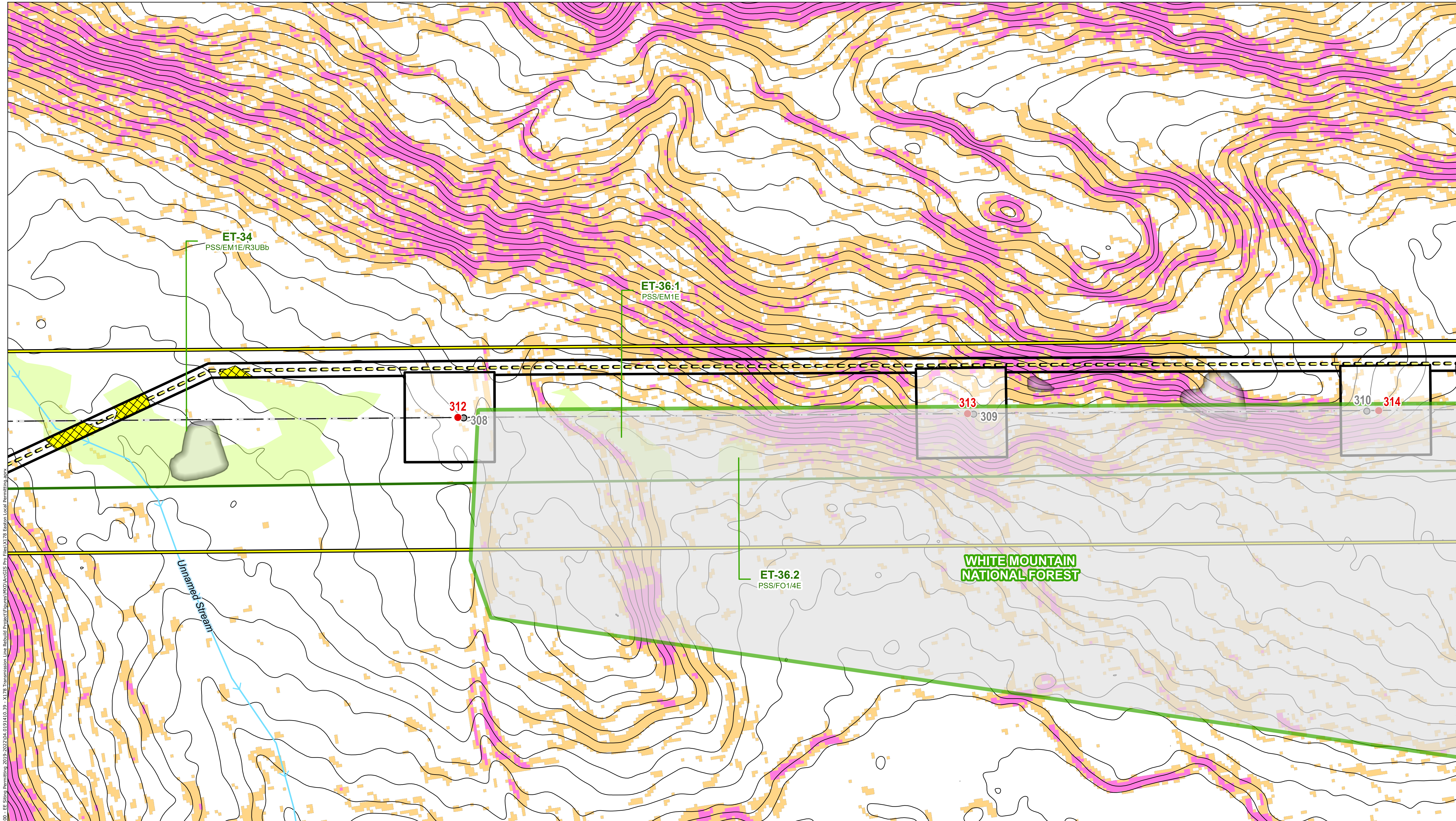

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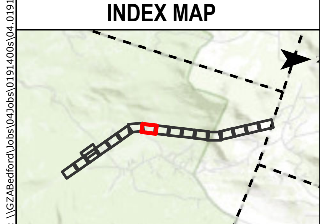

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X178 Transmission Line
Structure Rebuild Project
Steep Slope Plans

EASTON, NH

Date: November 12, 2024

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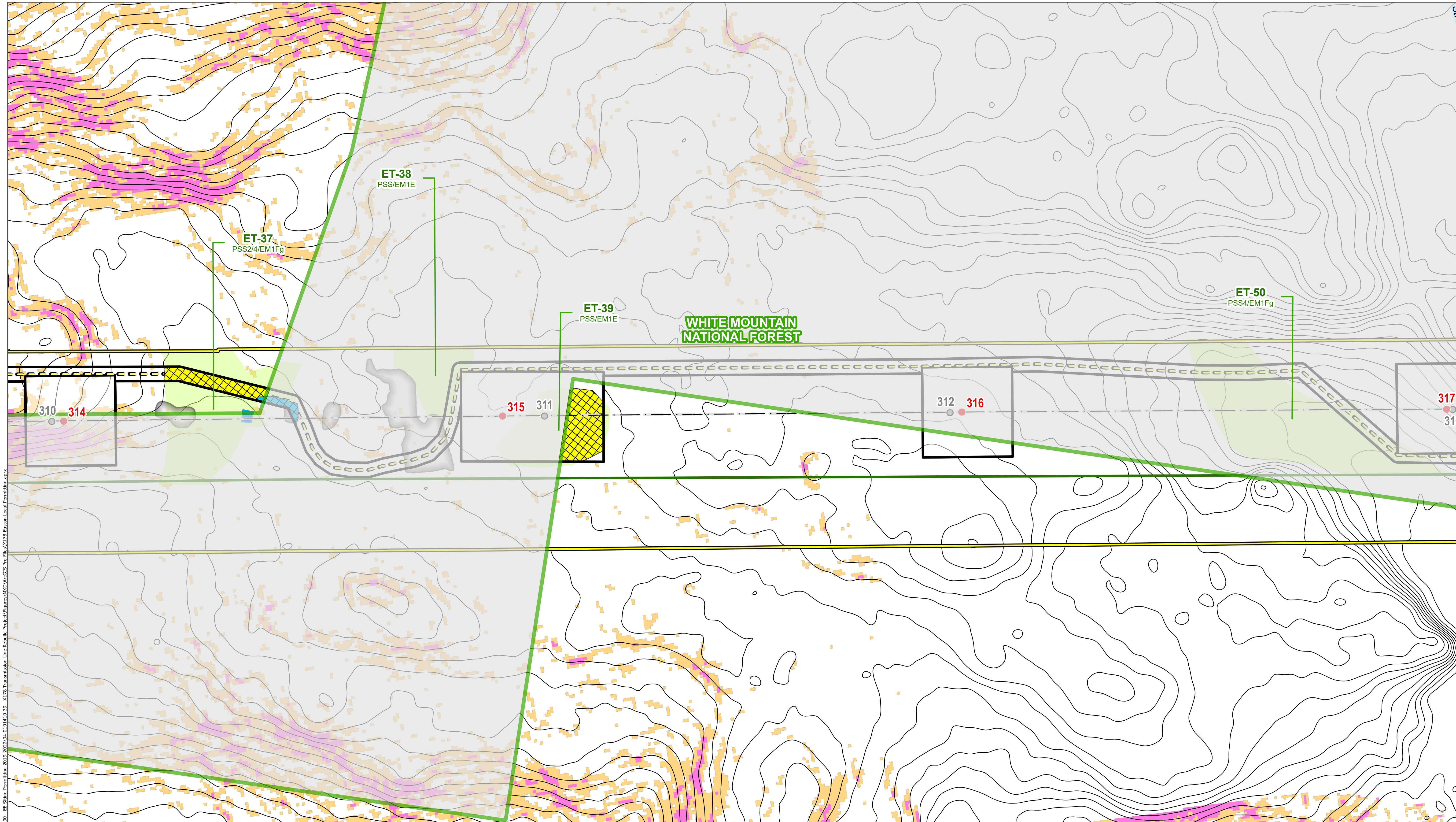

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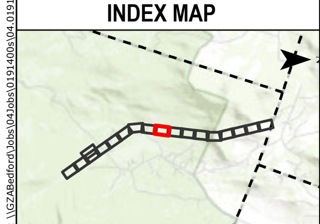

PROPOSED STRUCTURE	TRANSMISSION LINE
STRUCTURE TO BE REMOVED	TRANSMISSION LINE ROW
EXISTING STRUCTURE - NO WORK	EXTENT OF WETLAND DELINEATION
WHITE MOUNTAIN NATIONAL FOREST BOUNDARY	TEMPORARY UPLAND MATTING
GATE	TEMPORARY WETLAND MATTING
CULVERT	STONEWALL
	CONFIRMED VERNAL POOL

PROPOSED ACCESS	DELINEATED PERENNIAL STREAM
OFF ROW PENDING RIGHTS	DELINEATED INTERMITTENT STREAM
EXISTING ACCESS	NHD FLOWLINES
WORK PAD	NHDOT ROAD
PULL PADS	FEDERAL ROAD
APPROX. LEDGE/BOULDER OUTCROP	PRIVATE ROAD
NH RECREATIONAL TRAILS	TOWN MAINTAINED ROAD

FIELD DELINEATED WETLAND
2FT CONTOURS
AREA TO BE GRADED
TOWN BOUNDARY

SLOPE

0-15%
15-25%
>25%

N

1 in =100 ft

0 50 100 Feet

NO.	DATE	REVISIONS

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EVERSOURCE ENERGY

X178 Transmission Line Structure Rebuild Project Steep Slope Plans

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ET-52
PEM1/SS1/4Fb/R2UB

WHITE MOUNTAIN NATIONAL FOREST

ET-50
PSS4/EM1Fg

Unnamed Stream

317
313
314
318
319
315
316
320

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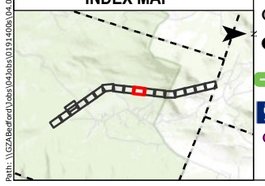
INDEX MAP



- PROPOSED STRUCTURE
- STRUCTURE TO BE REMOVED
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- WHITE MOUNTAIN NATIONAL FOREST BOUNDARY
- GATE
- CULVERT
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- NHDOT ROAD
- FEDERAL ROAD
- PRIVATE ROAD
- TOWN MAINTAINED ROAD
- FIELD DELINEATED WETLAND
- 2FT CONTOURS
- AREA TO BE GRADED
- TOWN BOUNDARY

SLOPE
- 0-15%
- 15-25%
- >25%

N

1 in =100 ft
0 50 100 Feet

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EVERSOURCE ENERGY

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ET-54
PEM/SS1E

ET-55
PSS1/4/EM1/FO1/4E

ET-53
PEM/SS1E

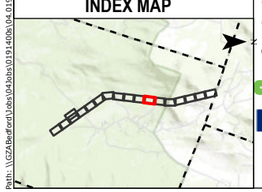
ET-56
PSS1/EM1/FO1/4E

321
317

322
318

319
323

INDEX MAP



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SLOPE

- 0-15%
- 15-25%
- >25%

N

1 in =100 ft

0 50 100 Feet

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Structure Rebuild Project
Steep Slope Plans

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ET-56
PSS1/EM1/FO1/4E

ET-58
PSS/EM1E

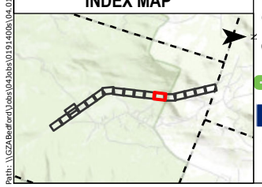
320 324

321 325

322 326

ET-72
PSS/EM1E/Fg, PFO1/4E/Fg

INDEX MAP



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SLOPE

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X178 Transmission Line Structure Rebuild Project Steep Slope Plans

EASTON, NH

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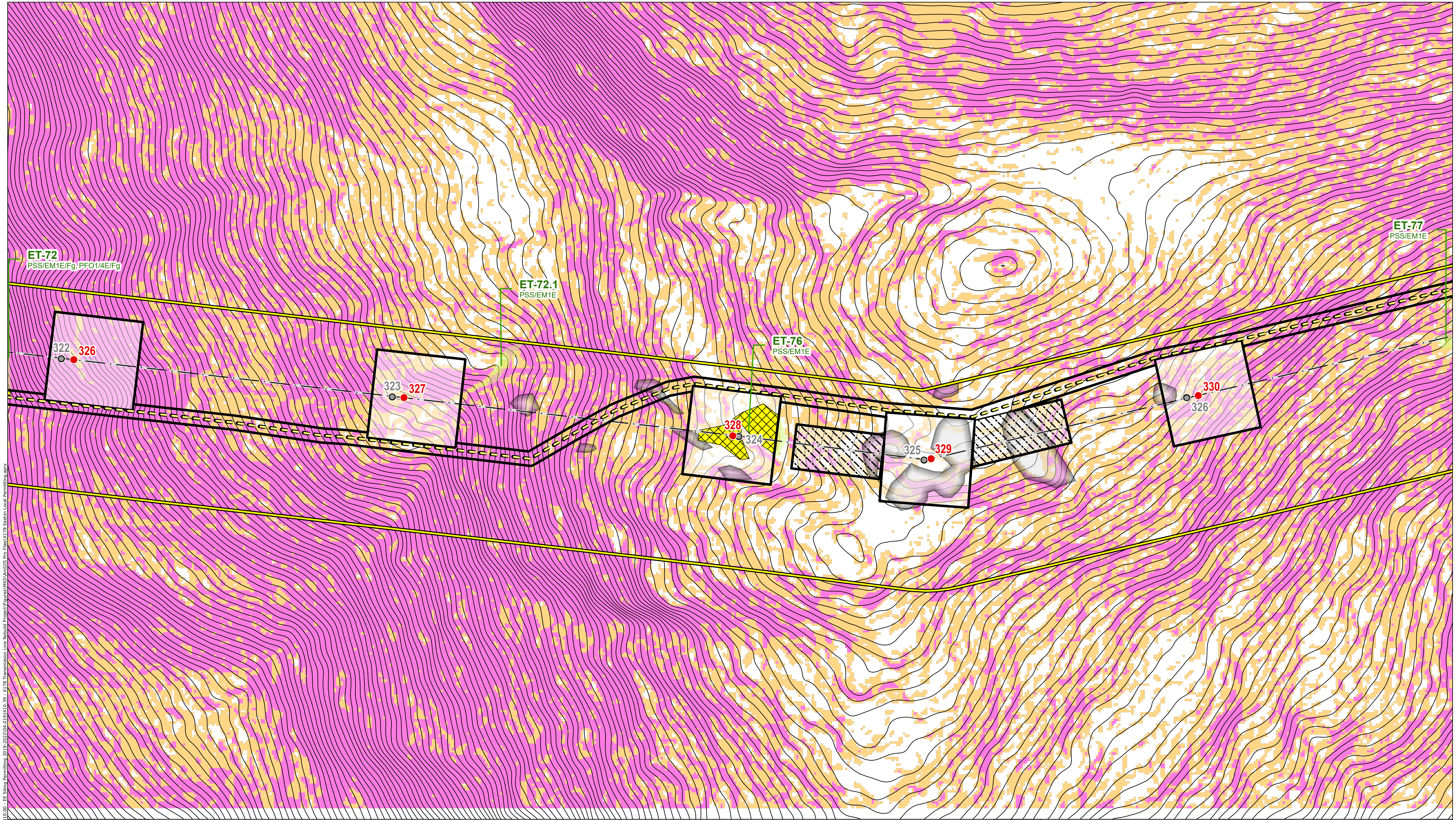

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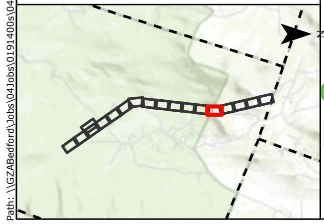

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SLOPE

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- 15-25%
- >25%

N

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0 50 100 Feet

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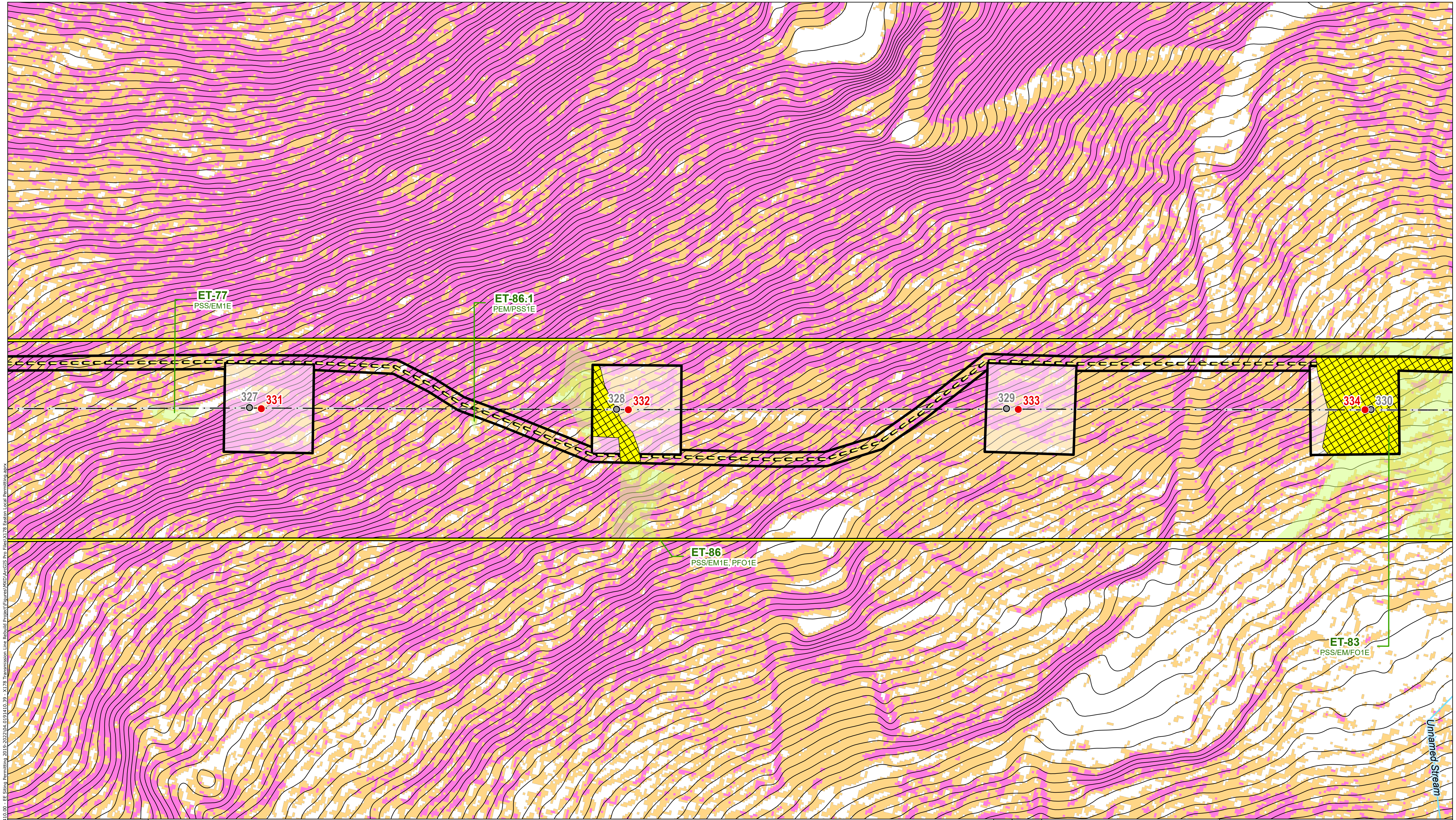

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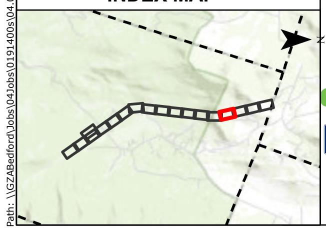

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SLOPE

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- 15-25%
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N

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0 50 100 Feet

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ET-83.1
PSS/EM/FO1E/R4SB5

ET-83
PSS/EM/FO1E

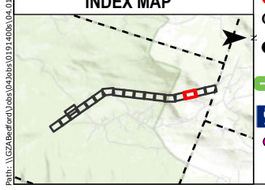
ET-68
PSS/EM1E/Fg/R4SB1;PFO1/4E/Fg

334 330 331 335 332 336

Unnamed Stream

North Peak Dr

INDEX MAP



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SLOPE
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- >25%

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0 50 100 Feet

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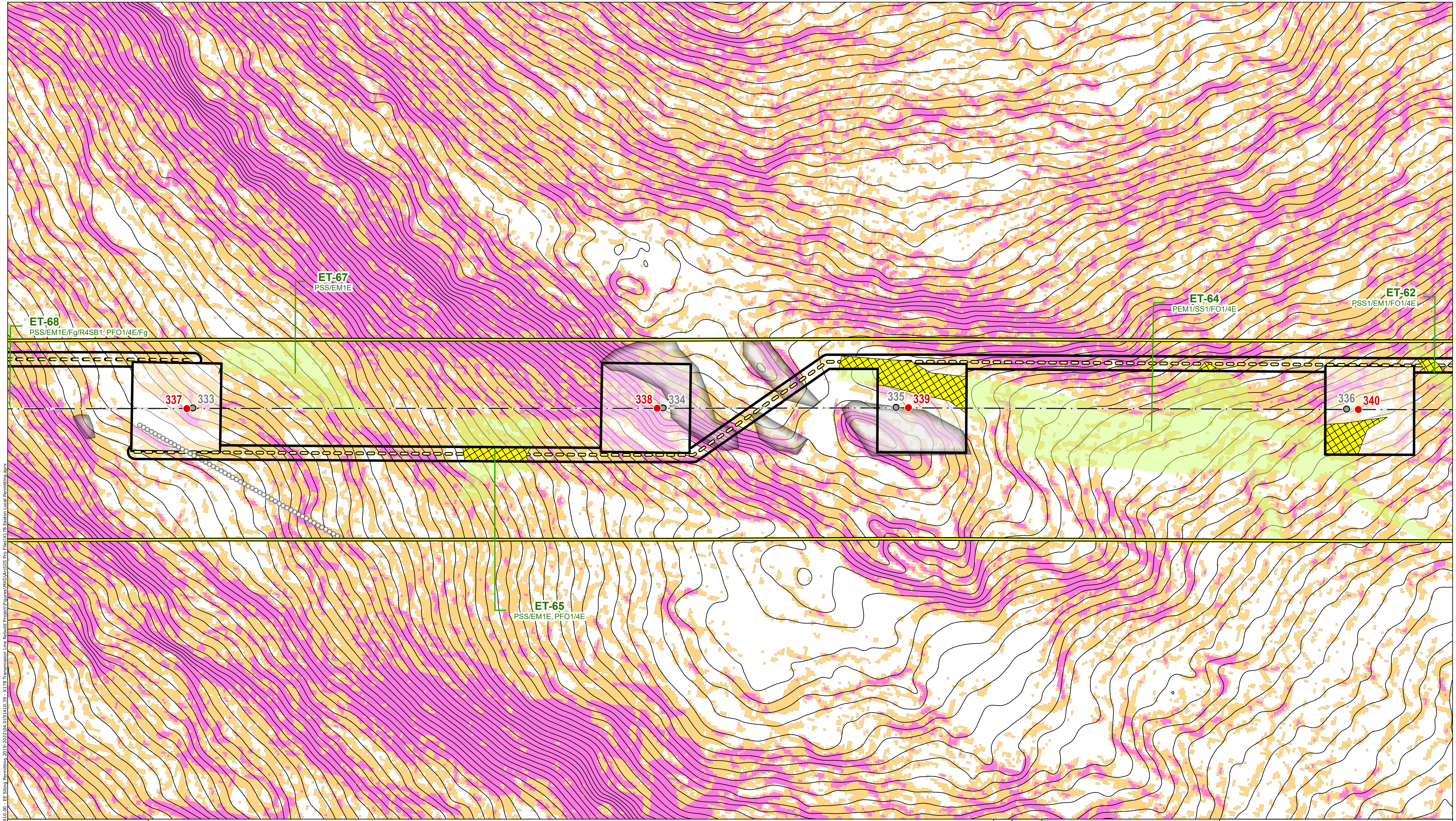

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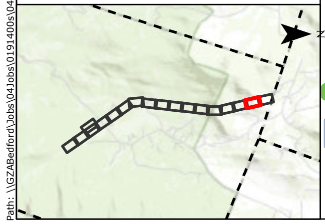

Legend				
PROPOSED STRUCTURE	TRANSMISSION LNE	PROPOSED ACCESS	DELINEATED PERENNIAL STREAM	FIELD DELINEATED WETLAND
STRUCTURE TO BE REMOVED	TRANSMISSION LINE ROW	OFF ROW PENDING RIGHTS	DELINEATED INTERMITTENT STREAM	2FT CONTOURS
EXISTING STRUCTURE - NO WORK	EXTENT OF WETLAND DELINEATION	EXISTING ACCESS	NHD FLOWLINES	AREA TO BE GRADED
WHITE MOUNTAIN NATIONAL FOREST BOUNDARY	TEMPORARY UPLAND MATTING	WORK PAD	NHDOT ROAD	TOWN BOUNDARY
GATE	TEMPORARY WETLAND MATTING	PULL PADS	FEDERAL ROAD	**SLOPE**
CULVERT	STONEWALL	APPROX. LEDGE/BOULDER OUTCROP	PRIVATE ROAD	0-15%
	CONFIRMED VERNAL POOL	NH RECREATIONAL TRAILS	TOWN MAINTAINED ROAD	15-25%
				>25%

N

1 in =100 ft

0 50 100 Feet

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EVERSOURCE ENERGY

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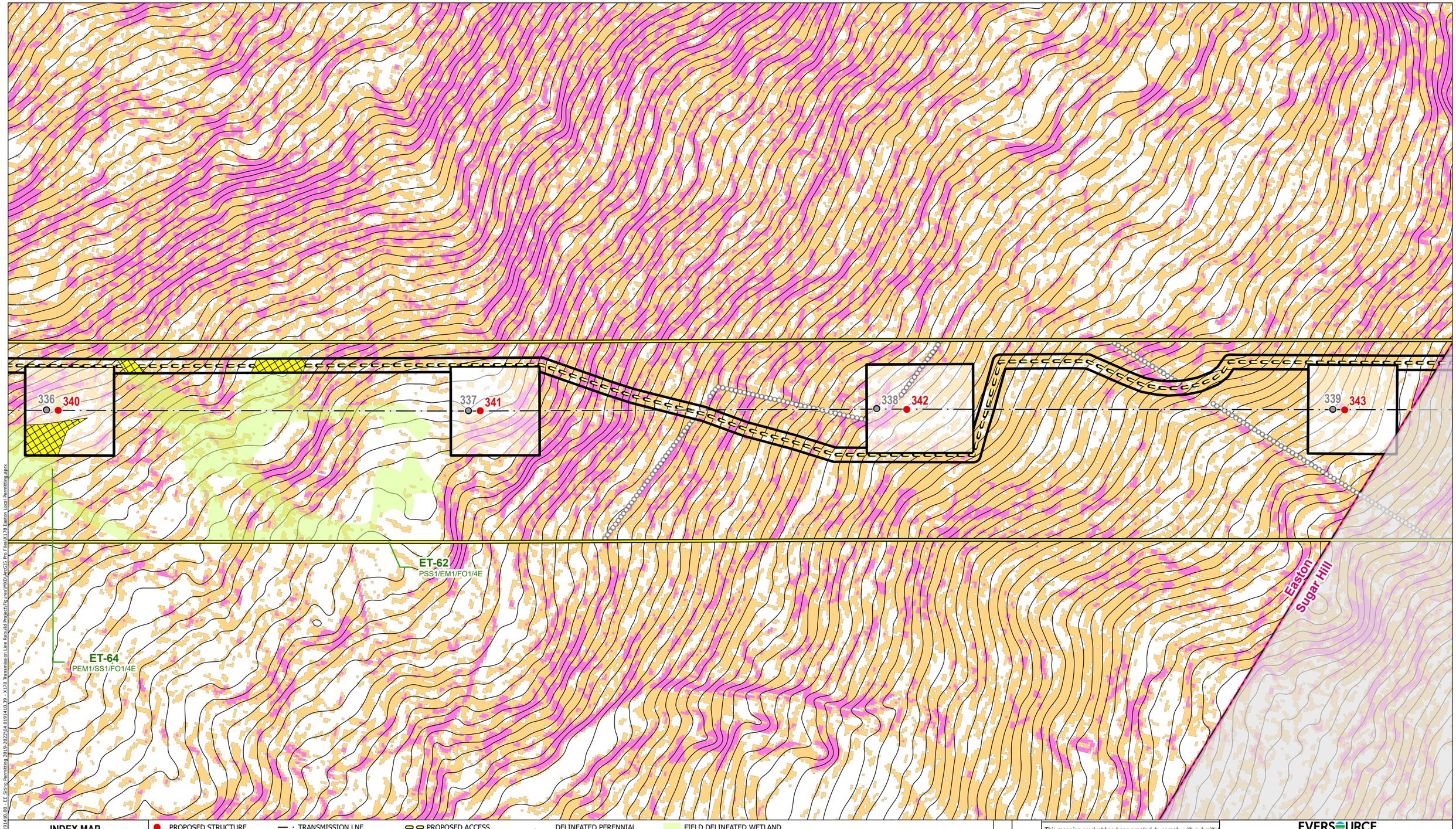

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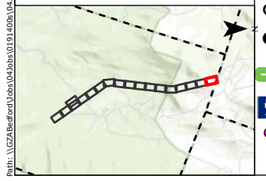
INDEX MAP



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- 2FT CONTOURS
- AREA TO BE GRADED
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SLOPE

- 0-15%
- 15-25%
- >25%

N

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CONSTRUCTION SEQUENCE:

1. WETLAND BOUNDARIES TO BE CLEARLY MARKED PRIOR TO THE START OF CONSTRUCTION.

2. CONDUCT A PRE-CONSTRUCTION MEETING WITH TEAM MEMBERS TO REVIEW PROJECT PERMITS AND CONDITIONS, AND A TRAINING OF POTENTIAL RARE, THREATENED AND ENDANGERED SPECIES SHALL BE CONDUCTED BY EVERSOURCE/GZA.

3. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL PROVIDED, AS NECESSARY, AND CONSISTENT WITH THE NHDES MARCH 2019 BMP MANUAL FOR UTILITY MAINTENANCE.

4. WETLAND IMPACTS ASSOCIATED WITH WETLAND CROSSINGS ARE REQUIRED FOR ACCESS BETWEEN STRUCTURES WITHIN THE RIGHT OF WAY. LOOK FOR FIELD FLAGGING AND REFER TO PROJECT PLANS FOR THESE LOCATIONS.

5. INSTALL PROPER CONCRETE WASHOUT IN UPLANDS PRIOR TO CONCRETE POURS AT UPLAND STRUCTURE 175.

6. ADEQUATE PRECAUTION SHALL BE EXERCISED TO AVOID SPILLAGE OF FUEL OILS, CHEMICALS, OR SIMILAR SUBSTANCES; NO FUELS, LUBRICANTS, CHEMICALS OR SIMILAR SUBSTANCES SHALL BE STORED BENEATH TREES OR IN THE VICINITY OF ANY WETLANDS, RIVER, STREAM OR OTHER BODY OF WATER; OR IN THE VICINITY OF NATURAL OR MAN-MADE CHANNELS LEADING THERETO. NO POWER EQUIPMENT SHALL BE STORED, MAINTAINED, OR FUELED IN ANY AREA ADJACENT TO A WETLAND, RIVER, STREAM OR OTHER BODY OF WATER.

7. REMOVE COMPLETELY ALL CONTAMINATION FROM ANY SPILLAGE OF CHEMICALS OR PETROLEUM PRODUCT AND COMPLETE REHABILITATION OF THE AFFECTED AREA.

8. ACCESS ROUTES HAVE BEEN SELECTED TO PREVENT DEGRADATION OF THE RIGHT-OF-WAY AND MINIMIZE ENVIRONMENTAL IMPACT. OPERATIONS SHALL BE CONFINED TO THE SPECIFIED ACCESS ROUTES WITHIN THE PROPOSED WETLAN IMPACT AREA. ACCESS ROUTES SHALL NOT EXCEED A 16 FOOT-WIDTH.

9. IMPACT TO VEGETATION WITHIN WETLANDS WILL BE LIMITED TO THE EXTENT NECESSARY TO PLACE THE TIMBER MATS WHERE REQUIRED.

10. LOW GROWING VARIETIES OF VEGETATION ADJACENT TO WETLANDS SHALL BE PRESERVED TO THE EXTENT POSSIBLE. STUMPS SHALL NOT BE REMOVED, AND THERE SHALL BE NO EXCAVATIONS, FILLS OR GRADING DONE ADJACENT TO WETLANDS, UNLESS MINOR EXCAVATIONS OR GRADING IS NEEDED FOR ACCESS OR WORK PADS AND THEN ONLY WITHIN LIMITS SHOWN ON PROJECT PLANS.

11. PRIOR TO INSTALLATION OF TIMBER MATS, MATS AND HEAVY MACHINERY USED TO INSTALL THEM SHALL BE INSPECTED FOR AND CLEANED OF ALL VEGETATIVE MATTER BY A METHOD AND IN A LOCATION THAT PREVENTS THE SPREAD OF VEGETATIVE MATTER TO JURISDICTIONAL AREAS. CONTRACTORS SHALL FOLLOW THE NHDOT BEST MANAGEMENT PRACTICES FOR THE CONTROL OF INVASIVE AND NOXIOUS PLANT SPECIES (2018)

12. TIMBER MATS AND PERIMETER CONTROLS WILL BE USED ALONG ACCESS ROUTES AND WORK PADS WITHIN WETLAND AREAS. THESE MATS ARE CONSTRUCTED OF HEAVY TIMBERS OR COMPOSITE MATERIAL, BOLTED TOGETHER, AND ARE PLACED END-TO-END IN THE WETLAND TO SUPPORT HEAVY EQUIPMENT. ALL TIMBER MATS SHALL BE PLACED AND REMOVED SO AS NOT TO CAUSE ANY RUTS, CHANNELS OR DEPRESSIONS, OR OTHERWISE CAUSE ANY UNDUE DISTURBANCE TO WETLANDS.

13. PRIOR TO TIMBER MATTING PLACEMENT IN WETLANDS, WORK AREAS SHALL BE SWEPT BY A QUALIFIED INDIVIDUAL WHO HAS GONE THROUGH RARE SPECIES TRAINING CONDUCTED BY A QUALIFIED BIOLOGIST OR HERPETOLOGIST. AN ENVIRONMENTAL MONITOR SHALL CONDUCT SWEEPS DURING WEEKLY EROSION AND SEDIMENT CONTROL INSPECTIONS.

14. IN UPLANDS, ADDITIONAL BMP'S MAY INCLUDE THE PLACEMENT OF GEOTEXTILE FABRIC, 3"-4" STONE, AND GRAVEL TO PROVIDE A SUITABLE ROAD BED. MATTING SHALL BE INSTALLED IN A MANNER TO BRIDGE STREAM CHANNELS. TEMPORARY CULVERTS MAY BE REQUIRED IN AREAS OF HIGH FLOW TO MAINTAIN HYDROLOGIC CONNECTIVITY. ALL MATERIAL WILL BE REMOVED FROM JURISDICTIONAL AREAS AFTER CONSTRUCTION COMPLETION.

15. IN WETLAND SH-46.1 WHERE TEMPORARY GRADING IS PROPOSED DUE TO STEEP SLOPES, ORGANIC SOILS ARE TO BE REMOVED AND TEMPORARILY STOCKPILED OUT OF JURISDICTIONAL WETLANDS TO BE USED TO RESTORE WETLANDS AFTER COMPLETION OF CONSTRUCTION. FILTER FABRIC TO BE PLACED IN PROPOSED ACCESS AS A BARRIER FOR PLACEMENT OF STONE FOR A TEMPORARY ROAD BASE.

16. NO MATERIAL SHALL BE PLACED IN ANY LOCATION OR IN ANY MANNER SO AS TO IMPAIR SURFACE WATER FLOW INTO, THROUGH OR OUT OF ANY WETLAND AREA. NO INSTALLATION SHALL CREATE AN IMPOUNDMENT THAT WILL IMPEDE THE FLOW OF WATER OR CAUSE FLOODING.

17. INSTALL CHECK DAMS ALONG ACCESS ROUTES WHERE NECESSARY.

18. NO MATERIAL SHALL BE TAKEN FROM THE WETLANDS AREA EXCEPT THAT WHICH MUST NECESSARILY BE REMOVED FOR THE STRUCTURE OR FOUNDATION PLACEMENT OR STABILIZATION. ALL EXCESS MATERIAL TAKEN FROM THE WETLAND WILL BE REMOVED FROM THE SITE.

19. CONDUCT DRILLING ACTIVITIES, INCLUDING DRILLING OF APPROXIMATELY 4-FT DIAMETER HOLES FOR CAISSON PLACEMENT, APPROXIMATELY 7-15-FT BELOW GROUND SURFACE.

20. DISCHARGE OF DEWATERING WATER SHOULD NOT BE DIRECTED TOWARDS SURFCE WATERS IDENTIFIED BY NHDES AS TIER 2, TIER 2.5, OR TIER 3 WITHOUT PRIOR AUTHORIZATION FROM EVERSOURCE. SUCH ACTIVITIES TRIGGER TURBIDITY MONITORING AND REPORTING REQUIREMENTS AS OUTLINED IN SECTION 3.3 OF THE 2022 EPA CONSTRUCTION GENERAL PERMIT. TIER 2, TIER 2.5, AND TIER 3 SURFACE WATERS ARE CONSIDERED ALL SURFACE WATERS INCLUDING LAKES, PONDS, MARSHES, AND TIDAL WATERS AS DEFINED BY ENV-WT 104.33. DEWATERING WATER SHOULD BE DIRECTED AWAY FROM SURFACE WATERS, OR BE DISCHARGED TO A VAC TRUCK, POLY TANK, OR UPLAND BASIN, AS APPROVED BY EVERSOURCE. OTHERWISE, TURBIDITY MONITORING DURING DEWATERING ACTIVITIES WILL BE REQUIRED.

21. ANY PROPOSED SUPPORT FILLS SHALL BE CLEAN GRAVEL AND STONE, FREE OF WASTE METAL PRODUCTS, ORGANIC MATERIALS AND SIMILAR DEBRIS AND SHALL NOT EXCEED THE AMOUNT PERMITTED. THIS ALLOWABLE FILL IS THE ONLY FILL THAT MAY REMAIN IN THE WETLAND AFTER CONSTRUCTION. ALL CUT AND FILLS SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.

22. POUR CONCRETE FOUNDATIONS AT STRUCTURE 175.

23. CONDUCT STRUCTURE REPLACEMENT ACTIVITIES, INCLUDING INSTALLATION OF NEW STRUCTURES AS INDICATED ON PLANS.

24. WIRE INSTALLATION WILL BE PERFORMED IN A MANNER SO AS TO AVOID, OR LIMIT TO THE MAXIMUM EXTENT POSSIBLE, TRAVERSING WETLANDS WITH HEAVY EQUIPMENT. IN SOME CASES, A HELICOPTER MAY BE USED DURING THE INSTALLATION TO MINIMIZE IMPACTS.

25. REMOVAL OF THE OLD POLE WILL OCCUR ONCE THE WIRE HAS BEEN INSTALLED ON THE NEW STRUCTURE. EXISTING STRUCTURES IN WETLANDS ARE TYPICALLY CUT AND POLE BUTTS LEFT IN PLACE, WHILE STRUCTURES IN UPLANDS MAY BE REMOVED FROM THE GROUND.

26. ALL TIMBER MATS, MATERIAL, AND DEBRIS WILL BE REMOVED FROM THE WORK AREA UPON THE COMPLETION OF CONSTRUCTION.

27. UNLESS APPROVED AS PERMANENT IMPACT, TIMBER MATS MUST ONLY BE INSTALLED FOR ONE GROWING SEASON. TIMBER MATS INSTALLED DURING THE ACTIVE GROWING SEASON (MAY 1 TO OCTOBER 1) MUST BE REMOVED PRIOR TO THE START OF THE FOLLOWING GROWING SEASON (BY APRIL 30 LATEST).

28. UPLAND DISTURBED AREAS SHALL BE RESTORED AND STABILIZED UPON COMPLETION OF CONSTRUCTION. WORK PAD RESTORATION SHOULD INCLUDE REDUCING THE WORK PAD TO A 30 BY 60 FOOT AREA, AND REDUCING SLOPES TO A MAXIMUM OF 25%. STOCKPILED MATERIAL SHOULD BE SPREAD TO REDUCE ANY UNNECESSARY SLOPES. GRAVEL WORK PADS AND SLOPES SHOULD BE SCARIFIED TO A MINIMUM OF 3" BEFORE SPREADING TOPSOIL/LOAM. DISTURBED UPLANDS SHALL BE SEEDED WITH A GRASS MIX.

29. TEMPORARY WETLAND IMPACTS WILL BE RE-GRADED TO ORIGINAL CONTOURS TO THE GREATEST EXTENT PRACTICABLE FOLLOWING CONSTRUCTION. EROSION CONTROL/RESTORATION SEED MIX WILL BE APPLIED AS NECESSARY IF THE SURROUNDING NATIVE SEED BANK DOES NOT RESULT IN ADEQUATE VEGETATIVE COVER.

30. MULCH USED FOR STABILIZATION SHALL CONSIST OF SEEDLESS STRAW.

31. SEDIMENT AND EROSION CONTROL MEASURES WILL BE EVALUATED AND REMOVED IF NECESSARY UPON THE COMPLETION OF CONSTRUCTION.

32. UNLESS OTHERWISE REQUESTED BY UNDERLYING PROPERTY OWNERS AND APPROVED BY EVERSOURCE, COMMERCIAL LOAM WILL NOT BE USED AS PART OF RESTORATION. ONLY IN-SITU TOPSOIL WILL BE USED TO RESTORE DISTURBED AREAS.

WINTER CONSTRUCTION NOTES:

1. PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED. STABILIZATION METHODS SHALL INCLUDE SEEDING AND MULCH, AND INSTALLATION OF EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.

2. DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE TEMPORARILY STABILIZED WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
3. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL (NHDOT 304.3).

4. PROJECTS IN WHICH THERE IS AN ACTIVE NOI AND CONSTRUCTION IS COMPLETED BETWEEN OCTOBER 15 AND APRIL 31 MUST BE MONITORED FOR A MINIMUM OF 70% VEGETATIVE GROWTH IN ORDER TO SUBMIT A NOT THROUGH THE EPA.

GENERAL NOTES:

OWNER: EVERSOURCE ENERGY
13 LEGENDS DRIVE
HOOKSETT, NH 03106

1. BASE PLAN PROVIDED BY EVERSOURCE ENERGY. EVERSOURCE ENERGY PROVIDED THE UTILITY DESIGN.

2. JURISDICTIONAL WETLANDS WERE DELINEATED BY OTHERS AND CONFIRMED BY GZA GEOENVIRONMENTAL, INC. IN 2023, IN ACCORDANCE WITH THE 1987 U.S. ARMY CORPS OF ENGINEERS' "WETLANDS DELINEATION MANUAL, TECHNICAL REPORT Y-87-1," AND REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTH CENTRAL AND NORTHEAST REGION," JANUARY 2012. WETLANDS WILL BE REVIEWED BY GZA GEOENVIRONMENTAL, INC. PRIOR TO START OF WORK.

3. GZA EVALUATED WETLANDS AS POTENTIAL VERNAL POOLS IN 2023 IN ACCORDANCE WITH "IDENTIFICATION AND DOCUMENTATION OF VERNAL POOLS IN NEW HAMPSHIRE," 2016, NEW HAMPSHIRE FISH AND GAME DEPARTMENT, NONGAME AND ANDANGERED WILDLIFE PROGRAM.

4. SITE PLAN IS FOR PERMITTING PURPOSES ONLY AND DOES NOT REPRESENT A PROPERTY BOUNDARY SURVEY.

5. THE PROJECT WILL BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800, AS WELL AS SECTION 2.10 OF THE NHDES BEST MANAGEMENT PRACTICES MANUAL FOR UTILITY MAINTENANCE IN AND ADJACENT TO WETLANDS AND WATERBODIES IN NEW HAMPSHIRE RELATIVE TO INVASIVE SPECIES.

6. IN ACCORDANCE WITH ENV-WQ 1505.02, THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
- A MINIMUM 85 PERCENT VEGETATED GROWTH HAS BEEN ESTABLISHED
- A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL HAS BEEN INSTALLED
- OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

EROSION CONTROL/RESTORATION NOTES:

1. INSTALLATION OF EROSION CONTROL GRINDINGS AND/OR SILT FENCES SHALL BE COMPLETE PRIOR TO THE START OF WORK IN ANY GIVEN AREA. EROSION CONTROLS SHALL BE USED DURING CONSTRUCTION AND REMOVED WHEN ALL SLOPES HAVE A HEALTHY STAND OF VEGETATION COVER. EROSION CONTROL MEASURES SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER .25" OR GREATER RAINFALL EVENTS.

2. AS REQUIRED, CONSTRUCT TEMPORARY BERMS, SILTATION FENCES, SEDIMENT TRAPS, ETC. TO PREVENT EROSION & SEDIMENTATION OF WETLANDS.

3. THE WORK AREA SHALL BE GRADED AND OTHERWISE SHAPED IN SUCH A MANNER AS TO MINIMIZE SOIL EROSION, SILTATION OF DRAINAGE CHANNELS, DAMAGE TO EXISTING VEGETATION, AND DAMAGE TO PROPERTY OUTSIDE LIMITS OF THE WORK AREA. EROSION CONTROL GRINDINGS WILL BE NECESSARY TO ACCOMPLISH THIS END.

4. ANY STRIPPED TOPSOIL SHALL BE STOCKPILED, WITHOUT COMPACTION, AND STABILIZED WITH BMPS.

5. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS, PLANT SUITABLE GRASS MIX PRIOR TO OCTOBER 15TH.

6. EROSION CONTROL MATTING, IF REQUIRED, WILL CONSIST OF JUTE MATTING. MATTING WITH WELDED PLASTIC OR 'BIODEGRADABLE PLASTIC' NETTING OR THREAD IS NOT PERMITTED.

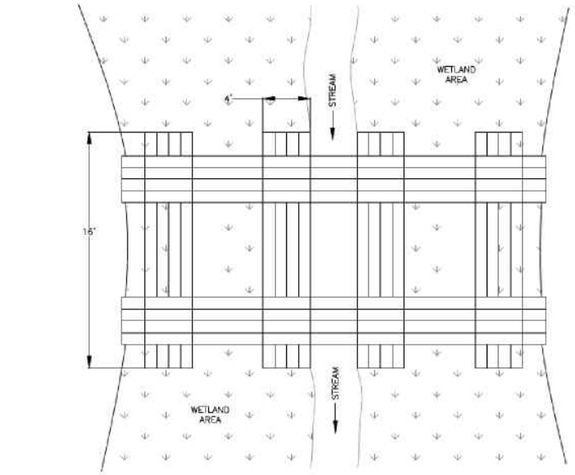
7. PER ENV-WT 307.03(C)(6), WATER QUALITY CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL DISTURBED SURFACES ARE STABILIZED TO A CONDITION IN WHICH SOILS ON THE SITE WILL NOT EXPERIENCE ACCELERATED OR UNNATURAL EROSION, SUCH AS ACHIEVING 85% OF GREATER VEGETATIVE COVER USIN AN EROSION CONTROL SEED MIX.

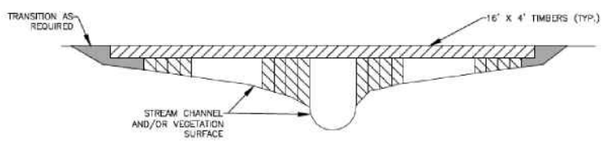
X178-2 TRANSMISSION LINE REBUILD
AND OPGW PROJECT

Easton, New Hampshire

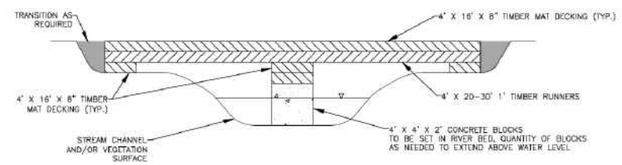
NOTES

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: EVERSOURCE ENERGY	
PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET S1
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 05/15/2024	PROJECT NO. 04.0191410.39	REVISION NO.	





TYPICAL STREAM CROSSING
NOT TO SCALE



(WETLAND WS-63)

ALTERNATE STREAM CROSSING
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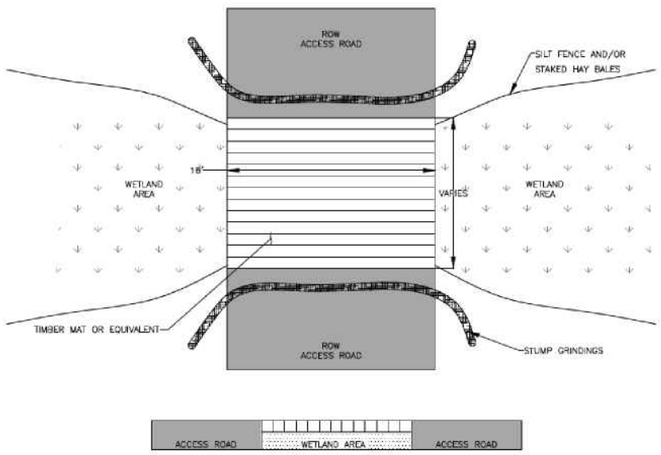

TYPICAL WETLAND CROSSING
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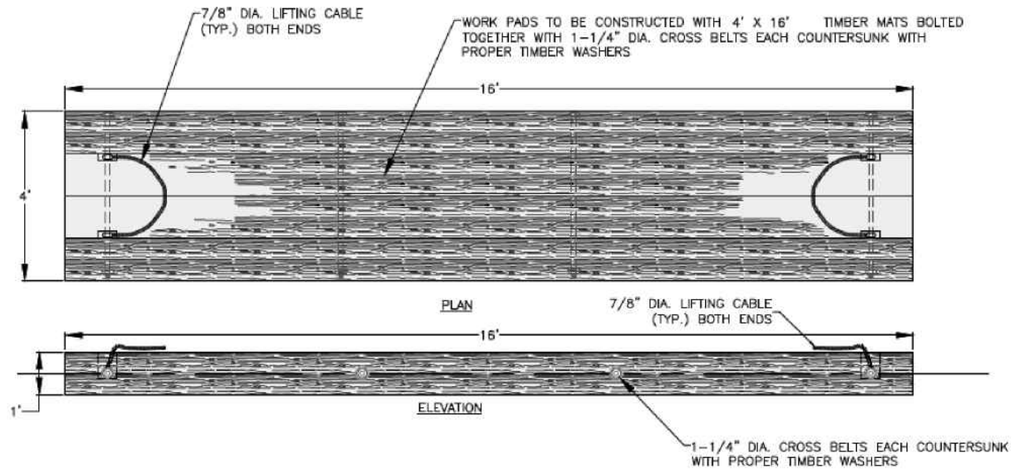

TYPICAL TIMBER MAT DETAIL
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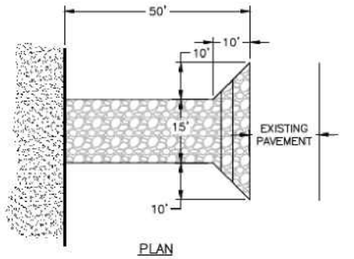

TEMPORARY CONSTRUCTION ENTRANCE / EXIT
NOT TO SCALE

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.

X178-2 TRANSMISSION LINE REBUILD
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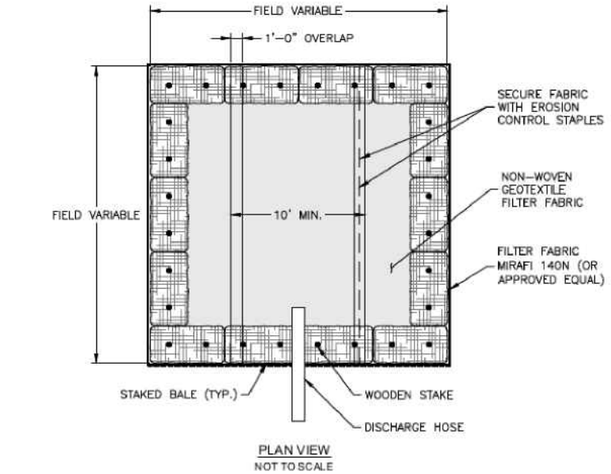
BMP DETAILS

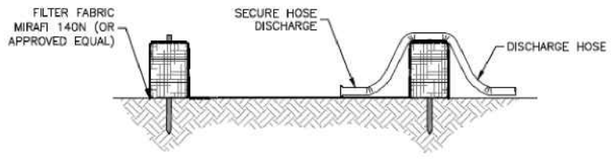
PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

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.	

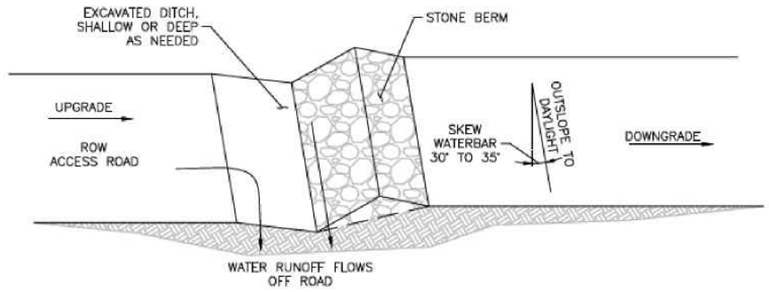


PLAN VIEW
NOT TO SCALE

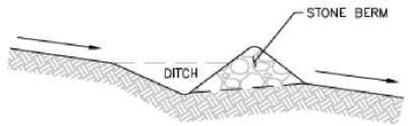


CROSS-SECTION
NOT TO SCALE

DEWATERING BASIN DETAIL



PLAN

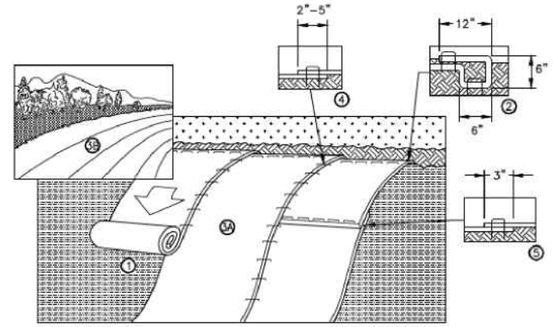


SECTION

TYPICAL WATER BAR DETAIL
NOT TO SCALE

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.



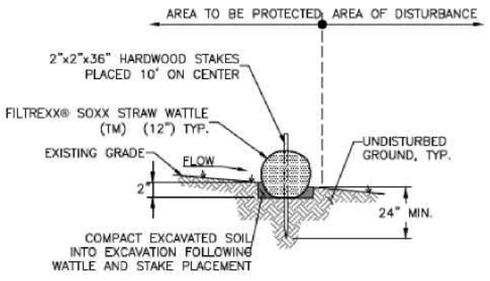
SLOPE INSTALLATION DETAIL OF EROSION CONTROL BLANKET
NOT TO SCALE

NOTES:

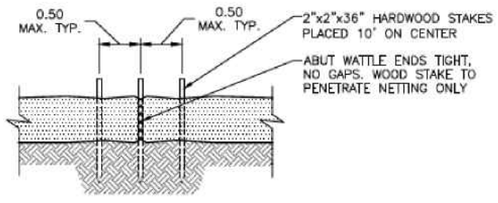
1. EROSION CONTROL BLANKET SHOULD BE INSTALLED VERTICALLY DOWNSLOPE.
2. STAKES/STAPLES SHOULD BE PLACED NO MORE THAN 3 FT. APART VERTICALLY AND 1 FT. APART HORIZONTALLY.
3. SLOPE SURFACES SHOULD BE FREE OF DEBRIS, INCLUDING STICKS, ROCKS AND OTHER OBSTRUCTIONS.
4. BLANKETS SHOULD BE ROLLED OUT LOOSELY 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.



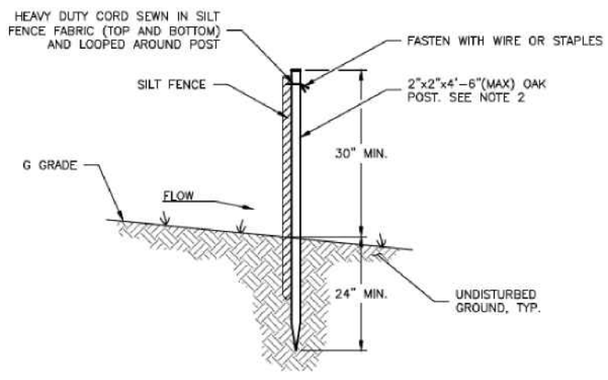
STRAW WATTLE DETAIL
NOT TO SCALE



STRAW WATTLE OVERLAP
NOT TO SCALE

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 ¼ INCHES.



SILT FENCE 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.

X178-2 TRANSMISSION LINE REBUILD AND OPGW PROJECT

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BMP DETAILS

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Application Fee