



March 24, 2021 File No. 04.0190999.40

Town of New Ipswich Zoning Board of Adjustment Attn: Wendy Juchnevics-Freeman, Chair 661 Turnpike Road New Ipswich, NH 03071

Re: Variance Application Eversource Energy

2021 367 Transmission Line Structure Replacement Project

New Ipswich, New Hampshire

Dear Chair Juchnevics-Freeman:

This letter transmits a Variance Application on behalf of Public Service Company of New Hampshire doing business as Eversource Energy (Eversource) for the 367 Transmission Line Structure Replacement Project (see attached **Figure 1**, **Locus Plan**). On behalf of Eversource, GZA GeoEnvironmental, Inc. (GZA) is requesting consideration of a Variance Application for required impacts within the Town of New Ipswich Wetlands and Surface Water Conservation Overlay District.

The proposed project includes the replacement of 17 utility structures along the existing 367 Transmission Line in Fitzwilliam, Rindge, New Ipswich, Greenville, Milford, Brookline, and Amherst, New Hampshire. The 367 Transmission Line ROW is approximately 32 miles in length, beginning at the Fitzwilliam Substation in Fitzwilliam, New Hampshire and ending at the Amherst Substation in Amherst, New Hampshire. The 367 Transmission Line ROW width ranges from approximately 170 to 275 feet.

In New Ipswich, the proposed project includes the replacement of five utility structures. See **Figure 3** – **Access and Permitting Plans** for a depiction of the proposed project. The Site crosses through primarily rural forested areas, as well as three public roads including Timber Top Road, NH Route 124 (Turnpike Road), and Boynton Hill Road. Natural cover within the ROW includes upland shrublands and wetland emergent and scrub-shrub habitats.

In total, the proposed project requires approximately 12,432 sq. ft. of temporary wetland impact for equipment access and work pad placement. The proposed project also requires 27,746 sq. ft. of buffer impact in uplands for access and work pad placement. A summary of wetland and buffer impacts is provided in the table below.



Table 1 - Summary of Wetland and Surface Water Buffer Impacts

Wetland ID	Classification	Temporary Wetland Impact	Upland Buffer Impact
IW-13.1	PSS1/PEM1Ex	958	2,984
IW-14	PSS1/PEM1Ex	1,343	1,681
IW-15	PSS1/EM1Fg	1,233	1,155
IW-16	PEM1/PSS1Fg	4,152	50.5 (MC10000011)
IW-17	PEM1/PSS1Fg	47	7,884
IW-18	PSS1/PEM1Fg	775	1,924
IW-19	PSS1/PEM1E	225	874
IW-20	PSS1/PEM1E	-	851
IW-21	PSS1/PEM1Fg	-	3,378
IW-22	PSS1/PEM1Fg	2,160	1,064
IW-23	PSS1/PEM1E	-	981
IW-24	PEM1Ex/PSS1E	271	827
IW-25	PSS1/PEM1Fg	902	810
IW-31.1	PEM1E	366	2,227
IW-32	PSS1E/PEM1E	-	1,106
	Total	12,432	27,746

Key to classifications:

P = palustrine wetland system

SS = scrub-shrub, 1 = broad

SS = scrub-shrub, 1 = broad-leaved deciduous EM = emergent, 1= persistent

Modifiers

E = nontidal, seasonally flooded/saturated

F = nontidal, semi permanently flooded

g = organic soil

x = excavated

The proposed project is necessary in order to support current and future electricity demands in the region. The proposed structure replacements were selected based on field inspection and identification of damaged and/or aging structures. The existing wood structures will be replaced with wood equivalent steel structures in order to increase the long-term reliability of the line. There are no proposed expansions to the ROW or construction of new lines associated with this project. In addition to this Variance Application, Eversource will also be filing a Statutory Permit by Notification (SPN) with the Department of Environmental Services (DES) Wetlands Bureau.

Wetlands were delineated by GZA in 2016 and reconfirmed in 2021 in accordance with the United States Army Corps of Engineers (ACOE) Wetlands Delineation Manual using the Routine Determinations Method, and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual as required by the New Hampshire Department of Environmental Services (NHDES) Wetlands Bureau and the ACOE. GZA photographed resources and recorded data relevant to functions and values provided by these natural resources within the ROW in March 2021. GZA classified wetlands in accordance with the "Classification of Wetlands and Deepwater Habitats of

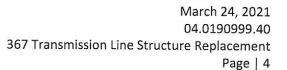




United States" (Federal Geographic Committee, 2013). The area of evaluation included approximately 2 miles of ROW.

In accordance with Article X Section D-3 of the New Ipswich Zoning Ordinance, an application must be made to the Planning Board for any change in the use within the Wetlands and Surface Water Conservation Overlay District. The proposed 367 Transmission Line Replacement Project includes the installation of replacement structures and creation and/or improvement of existing dirt/gravel access roads and work pads in the Wetlands and Surface Water Conservation Overlay District. In accordance with the Variance Application form, the following criteria are addressed below.

- 1. The proposed use would not be contrary to the public interest. The project includes maintenance along an existing public utility line within an existing and maintained ROW corridor, and does not propose changes in land use, or additional utility lines not already present. Upon inspection of the existing 367 Transmission Line, it was determined that several structures were in need of replacement due to age and/or environmental damage. The replacements are being made in order to increase the long-term reliability of the transmission line and are thus in the public interest.
- 2. The use is not contrary to the spirit of the ordinance. The proposed project is necessary to ensure safety and reliability of the 367 Transmission Line and will allow it to continue to meet current as well as future projected electricity demands. Additionally, the access for the project has been sited to avoid residential areas and areas within wetlands to the greatest extent practicable. The project utilizes existing access routes within the ROW to limit and prevent new disturbance. Where access routes temporarily cross a wetland, the proposed project has been designed to minimize and prevent rutting and soil disturbance by using wetland matting. Matting will be temporarily placed in a narrow section of the wetland where available and within existing access routes in order to provide appropriate access and prevent rutting. No permanent grading will occur as a result of this project and temporary impacts will be restored upon completion of work. The proposed project is maintenance of an existing utility line and is not contrary to the spirit of the ordinance.
- 3. Granting a variance would do substantial justice. The proposed project will replace select structures along an existing transmission line. It will not change the alignment within the existing and maintained transmission line ROW and will not result in a change in land use, increased ROW, or additional utility lines. The structure replacements are necessary to ensure the reliability of the 367 Transmission Line and to meet current as well as future projected electricity demands.
- 4. The proposed use would not diminish property values. The proposed project maintains an existing utility line within an existing and maintained transmission line ROW. There are no proposed changes to surrounding land use, the ROW width will not increase, and there will be no new additional utility lines. The current land use will not change as a result of the project and therefore property values of surrounding properties are not expected to diminish.
- 5. Literal enforcement of the ordinance would result in unnecessary hardship to the owner because the following special conditions of the property distinguish it from other properties in the area. The proposed work area is located within the existing cleared 367 Transmission Line ROW which is generally bordered by mature forest communities and residential properties. Many of the proposed structure replacements are located in remote areas of the ROW with no direct access from public roads. Due to these various site constraints, some travel through the Wetlands and Surface Water Conservation overlay district is required to perform the necessary structure replacements. Additionally, some structure replacements and associated work pads must be located in the Surface Water Overlay District due to span





requirements, which are required to meet electrical safety standards. Wherever possible, structure replacements, work pads, and access roads are proposed to be outside of Wetlands and Surface Water Conservation Overlay District.

- 6. No fair and substantial relationship exists between the general public purposes of the ordinance provision and the specific application of that provision to the property. The proposed project is necessary to both provide adequate public service and promote safety for the general public. The 367 Transmission Line directly serves the needs of the public by providing electrical transmission. Upon inspection of the 367 Transmission Line, it was determined that several structures were damaged and in need of replacement. These structures must be replaced in order to ensure public safety and provide adequate public services.
- 7. The proposed use is a reasonable one. As previously mentioned, the proposed project will replace select structures on the existing 367 Transmission Line within the existing and maintained transmission line ROW corridor and in the same alignment. The current land use of the transmission line ROW corridor will not change as a result of the project. The width of the ROW will not change, and no new additional lines will be built. The project is necessary to promote safety and reliability of the 367 Transmission Line and will allow it to meet current electricity demands. We appreciate the Town's time in reviewing the project's conformance to the Town Ordinance.

If you have additional questions, please contact Ms. Lindsey White at 603-232-8753 or at lindsey.white@gza.com.

Very truly yours,

GZA GEOENVIRONMENTAL, INC.

Lindsey White, WSA, SSA

Project Manager

Deborah M. Zarta/Gier, CNRF Consultant/Reviewer

Tracy L. Tarr, CWS, CESSWI Associate Principal

LEW/TLT/DMZ

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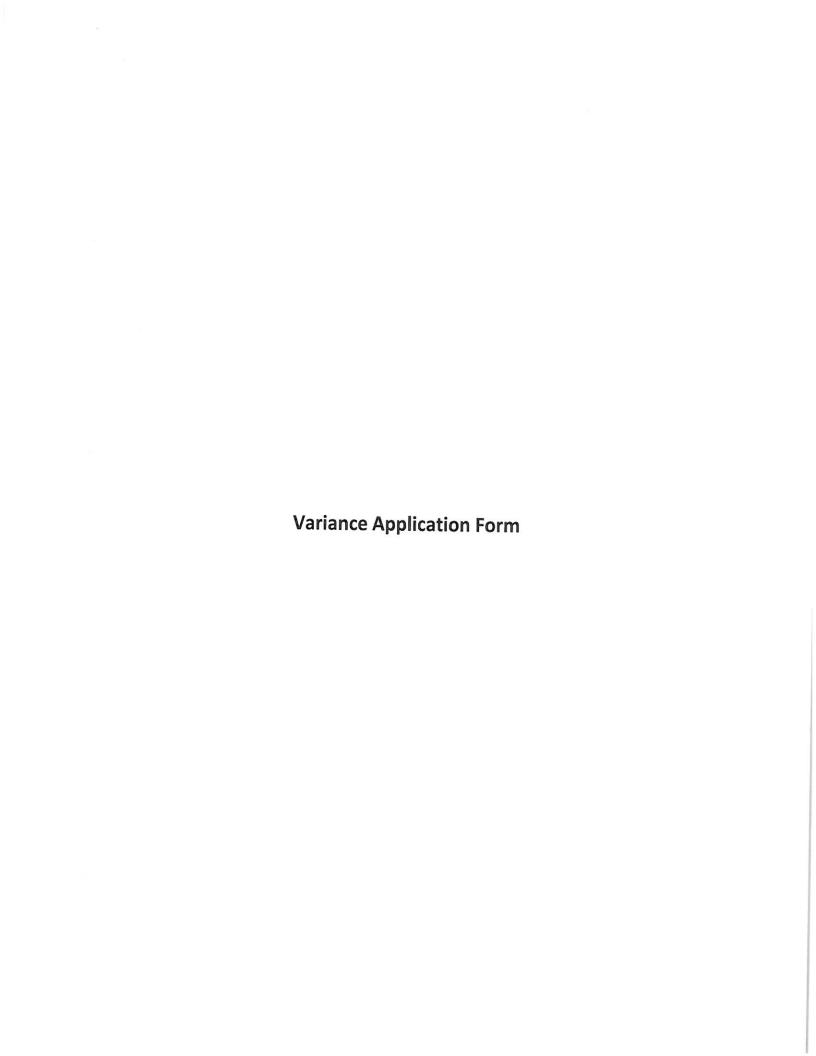
Attachments:

Variance Application Form

Abutters List Photo Log Tax Maps Figure 1 – Locus

Figure 2 - Access and Permitting Plans

Application Fee



INSTRUCTIONS TO APPLICANTS APPEALING TO THE NEW IPSWICH ZONING BOARD OF ADJUSTMENT FOR A

VARIANCE

IMPORTANT: READ CAREFULLY BEFORE FILLING OUT ATTACHED APPLICATION

The Zoning Board of Adjustment (ZBA) strongly recommends that, before making any appeal, you become familiar with the Zoning Ordinance, and also with the New Hampshire Statutes Title LXIV, RSA Chapters 672-677, www.gencourt.state.nh.us/rsa/html/indexes, covering planning and zoning.

Once the application has been completed, the applicant should schedule an appointment with the ZBA to submit the completed application. A fee is charged sufficient to cover the cost of preparing and mailing the legally-required notices (see application). Make check payable to the Town of New Ipswich and remit with your application. Failure to pay the required fee will result in denial of your application.

The Board will schedule a public hearing within 30 days of receipt of the properly completed application. Public notice of the hearing shall be given in the Monadnock Ledger and shall be posted at the New Ipswich Post Office and at the Town Office not less than 5 days before the date fixed for the hearing. Notice will also be mailed to the applicant, all abutters and to other parties whom the Board may deem to have an interest, at least 5 days before the date of the hearing. The applicant and all other parties will be invited to appear in person or by agent or counsel to state reasons why the appeal should or should not be granted.

After the public hearing, the Board will reach a decision. You and all other parties to the case will be sent a Notice of Decision. If you believe the Board's decision is wrong, you have the right to appeal. The Selectmen, or any party affected, have similar rights to appeal the decision in your case. To appeal you must first ask the Board for a rehearing. The motion for rehearing may be in the form of a letter to the Board. The motion must be made within 30 days of the Board's decision, and must set forth the grounds on which it is claimed the decision is unlawful or unreasonable.

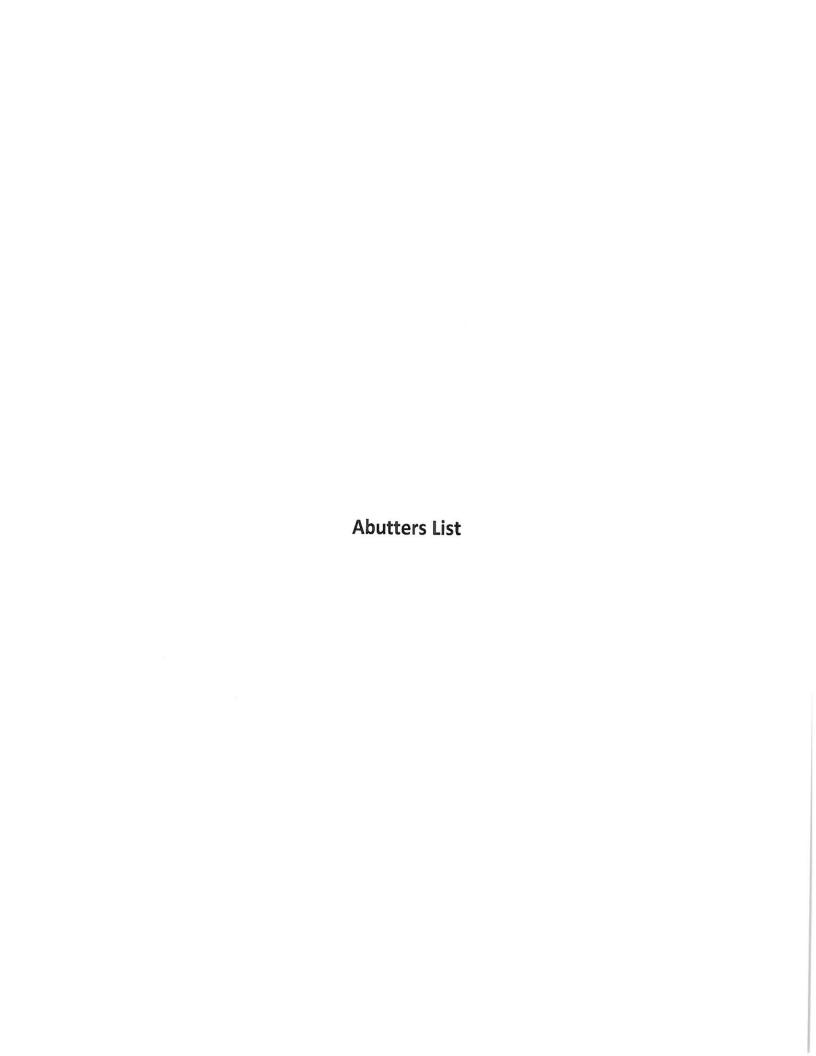
The Board may grant such a rehearing if, in its opinion, good reason is stated in the motion. The Board will not reopen a case based on the same set of facts unless it is convinced that an injustice would be created by not doing so. Whether or not a rehearing is held, you must have requested one before you can appeal to the courts. When a rehearing is held, the same procedure is followed as for the first hearing, including public notice and notice to abutters. (See RSA Chapter 677 for more detail on rehearing and appeal procedures.)

APPLICATION FOR A VARIANCE TOWN OF NEW IPSWICH, NH

TO BE COMPLETED BY APPLICANT	BOARD OF ADJUSTMENT USE
Name Jeremy Fennell	
Address 13 Legends Drive	Case Number
Hooksett, NH 03106	Date Received
Telephone # (774) 249-9400	Received by
Date 3/22/2021	Received by
Property Location Various - 367 Transmission Line	Hearing Date
Tax Map/Lot # Various	Action Taken
Do you own the property? Yes No _X _ If you notarized documentary evidence that you are the over the following information is required for acceptance by the Board:	are not the owner of the property, provide duly wner's authorized agent. (Eversource holds easements
Assessors' Office will assist you with the responsibility.	relation to town/state roads and abutters. her interested parties including addresses. The he list but the accuracy of the list is your reyor or registered professional engineer in the
A variance is requested from Article X Section the replacement of existing utility structures within	tion D of the Zoning Ordinance to permit n the existing and maintained 367
Transmission Line Right-of-Way.	
A variance is an authorization, which may be grante property in a way that is not permitted under the strict to be legally granted, it must be shown that the conditions:	t terms of the Zoning Ordinance For a verience
Facts supporting this request:	
1. The proposed use would not be contrary to the p	ublic interest because:
See attached	

_	
	Granting the variance would do substantial justice because: See attached
	The proposed use would not diminish property values because: See attached
he	Literal enforcement of the ordinance would result in unnecessary hardship to the owner because following special conditions of the property distinguish it from other properties in the area: See attached
oro	a. No fair and substantial relationship exists between the general public purposes of the inance provision and the specific application of that provision to the property because: See attached
orc	a. No fair and substantial relationship exists between the general public purposes of the inance provision and the specific application of that provision to the property because:

Signature Jemel	Date <u>3/24/2021</u>	
Fee Determination		
Board of Adjustment fee	\$50.00	
Newspaper advertisement	50.00	
Certified Mailings (# x # of abutters)		
Decision letters (\$ x # abutters)		
Additional expenses		12/14
Total payable to the Town of New Ipswich		12/11





367 Transmission Line Structure Replacement Project Eversource Energy Abutters List New Ipswich, New Hampshire

Wetland Scientist GZA GeoEnvironmental, Inc. Attn: Lindsey White 5 Commerce Park North, Suite 201 Bedford, NH 03110	Owner/Applicant Eversource Energy Attn: Jeremy Fennell 13 Legends Drive Hooksett, NH 03106	Map 6-10 Grace M. Morton 72 Winter Street Arlington, MA 02474
Map 6-17 Christopher S. & Jeremy Bradler 392 East Road Temple, NH 03084	Map 6-17 Christopher S. & Jeremy Bradler 392 East Road Temple, NH 03084	Map 10-1 Hank L. & Cindy H. Somero 185 Boynton Hill Road New Ipswich, NH 03071
Map 10-9b Lemac Realty Trust, Peter E. Knox Trustee 12 Olive Drive Leominster, MA 01453	Map 6-15 Justin & Bethany Dean 197 Old Street Road Peterborough, NH 03458	Map 10-7 USA Properties, Inc. 2500 N. 119 Street Lafayette, CO 80026
Map 6-6 Amanda Kandoll 42 Chapman Road New Ipswich, NH 03071	Map 6-21, 6-20-A, 6-19 Michael E. & Linda A. Maki 72 Maki Road New Ipswich, NH 03071	Map 10-3 Eric R. & Marcella M. Stevens 87 Sharon Road New Ipswich, NH 03071
Map 6-14 Jonathan J. Broc PO Box 625 Lunenburg, MA 01462	Map 6-18 V&Y Construction Company LLC 122 Green Farm Road New Ipswich, NH 03071	Map 10-2 Gloria M. Foster 65 Boynton Hill Road New Ipswich, NH 03071
Map 6-8 Meghan S. & David I. Bangs 1249 Turnpike Road New Ipswich, NH 03071	Map 6-24-8 Sigmund & Roberta Dellhime 1250 Turnpike Road New Ipswich, NH 03071	Map 6-9 Anthony Kinnunen 1235 Turnpike Road New Ipswich, NH 03071
Map 10-5 Floyd Backes & Laura Bridge 405 Spring Hill Road Sharon, NH 03458	Map 6-24 John & Carla Labossiere 1236 Turnpike Road New Ipswich, NH 03071	Map 6-24-A Bruce A. & Cheryl A. Pelletier 1220 Turnpike Road New Ipswich, NH 03071
Map 1-16-7 Wayne W. & Laura Ann Moran 73 Philmart Drive New Ipswich, NH 03071	Map 1-30, 2-7 Albert T. Jenks Trustee & Andrew Peppard Trustee 1180 Turnpike Road New Ipswich, NH 03071	Map 6-25-1 Kevin M. & Patricia I. Haley PO Box 362 New Ipswich, NH 03071



367 Transmission Line Structure Replacement Project Eversource Energy Abutters List New Ipswich, New Hampshire

Map 6-13-2	Map 6-25	Map 1-27-C
Daniel G. Kirwin	Kenneth & Kendra Brook	John & Darlene Palmer
87 West Hollis Road	1196 Turnpike Road	124 Timbertop Road
Hollis, NH 03049	New Ipswich, NH 03071	New Ipswich, NH 03071
Map 6-21-A	Map 1-28	Map 6-21-B
Denis L. & Carol A. Alix	Frederick P. III Joyce & Dream Dawn	Jordan P. & Gail A. Bergeron
36 Boynton Hill Road	38 Hubbard Pond Road	71 Maki Road
New Ipswich, NH 03071	New Ipswich, NH 03071	New Ipswich, NH 03071
Map 1-27-B	Map 1-27	Map 1-27-A
Michael Leavitt & Kirk Hager	Heidi Rine	Justin & Carrie S. Ingrassia
136 Timbertop Road	156 Timbertop Road	160 Timbertop Road
New Ipswich, NH 03071	New Ipswich, NH 03071	New Ipswich, NH 03071
Map 1-28-A	Map 6-13-1	Map 2-7d
Wendy Almeida	James A. & Margaret M. Parison	Bernard J. Honeywell
PO Box 386	40 Old Rindge Road	162 Timbertop Road
New Ipswich, NH 03071	New Ipswich, NH 03071	New Ipswich, NH 03071
Map 2-4-2	Map 6-20-D	Map 2-7e
Lisa Pesenti & Marinus Walraven	Chad M. & Jody L. Rautiola	David M. Hunt
PO Box 466	215 Appleton Road	20 Barrett Mountain Road
New Ipswich, NH 03071	New Ipswich, NH 03071	New Ipswich, NH 03071
Map 6-11	Map 6-13-3	Map 2-7b
Reuben M. & Ashley M. Aho	Matthew W. Glavey	Lawrence & Kelly Rev Tru 2018
1149 Turnpike Road	PO Box 58	Laprade, Lawrence R. & Kelly S.
New Ipswich, NH 03071	New Ipswich, NH 03071	Trustees
		PO Box 306
		New Ipswich, NH 03071
Map 7-6	Map 7-1	Map 2-7f
Heather Leel	Raymond M. Aho	Reed Hayes
903 Turnpike Road	775 Turnpike Road	PO Box 425
New Ipswich, NH 03071	New Ipswich, NH 03071	New Ipswich, NH 03071
Map 2-7c	Map 7-5	Map 2-8
Murray Irrevocable Trust Beck, Michael	Andrew P. Krook & Reade M. Salo	Paul Somero
J. Beck Trustee	PO Box 319	10 Vista Drive
21 Cheswick Road	New Ipswich, NH 03071	New Ipswich, NH 03071
Arlington, MA 02174		70



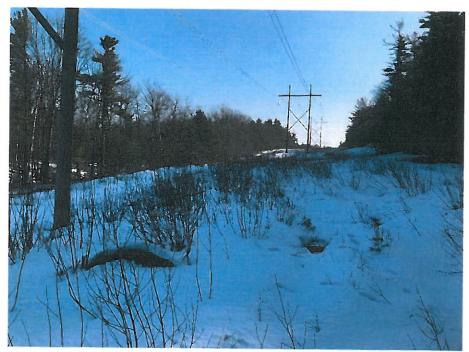
367 Transmission Line Structure Replacement Project Eversource Energy Abutters List New Ipswich, New Hampshire

Map 2-9	Map 6-22-A	Map 7-1-1
Paul & Jayne Somero	Wilfried J. Eggers	Brian & Suzanne Kustan
PO Box 515	21 Wapack Road	1121 Turnpike Road
New Ipswich, NH 03071	New Ipswich, NH 03071	New Ipswich, NH 03071
Map 2-3h-b	Map 2-6m	Map 2-6I
Richard G. & Susan K. Cyr	Wendy Christensen & Jeffrey	Luthi Revocable Trust of 2020,
275 Timbertop Road	MacGillivray	Luthi Brian P. & Christine R.
New Ipswich, NH 04401 0307	256 Timbertop Road	Trustee
	New Ipswich, NH 03071	266 Timbertop Road
		New Ipswich, NH 03071
Map 2-6k	Map 2-6j	Map 2-6i
Wayne R. Williams	Michael P. O'Shea & Renee A.	Michael Fuller
280 Timbertop Road	McKenzie	68 Bridge Street
New Ipswich, NH 03071	28 Timbertop Road	Lexington, MA 02173
	New Ipswich, NH 03071	200
Map 2-6h	Map 2-6g	Map 10-4
Tyler Wilkins	Charles A. & Tuulikki L. Saari	Jared & Carolyn Cormier
316 Timbertop Road	PO Box 258	187 Appleton Road
New Ipswich, NH 03071	New Ipswich, NH 03071	New Ipswich, NH 03071
10.1.0		
Map 10-1-A	Map 6-7	
Jason Gordon Jr. Merrill	Wildcat Partnership, Albert F. Smith	
196 Boynton Hill Road	33 Wildcat Hill Road New Ipswich, NH 03071	
New Ipswich, NH 03071		

Photo Log



Photograph No. 1: Looking northeasterly at existing access road over Wetland IW-32 towards Structure 304 to be replaced.



Photograph No. 2: Looking northeasterly at Wetland IW-31.1 (right) and Structure 304 (left) to be replaced.



Photograph No. 3: Looking southeasterly at proposed access and work pad at Structure 304 to be replaced.



Photograph No. 4: Looking easterly at proposed access route through Wetland IW-25 towards Structure 297 to be replaced. Timber matting will be used through the wetland portion of the access road.

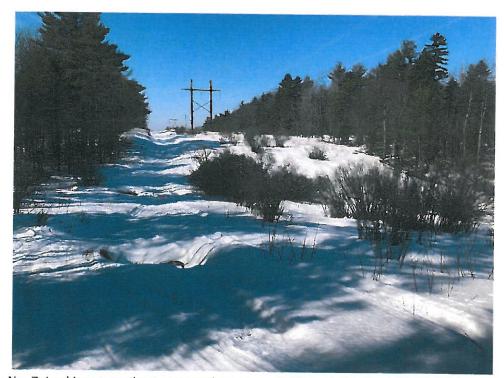


Photograph No. 5: Looking easterly at proposed access route through Wetland IW-24 towards Structure 296. Timber matting will be used through the wetland portion of the access road.



Photograph No. 6: Looking easterly at proposed access route through Wetland IW-22 towards Structure 293.

Timber matting will be used through the wetland portion of the access road.



Photograph No. 7: Looking westerly at proposed access route through Wetland IW-22 (left) towards Structure 294. Timber matting will be used through the wetland portion of the access road.



Photograph No. 8: Looking westerly at proposed access route (right) and Structure 291 (left).



Photograph No. 9: Looking easterly at proposed access route (right) and Wetland IW-21 (left) towards Structure 290.



Photograph No. 10: Looking westerly at proposed access route (left) and Wetland IW-21 (right) towards Structure 291.



Photograph No 11: Looking easterly at proposed access route through Wetland IW-20 towards Structure 289. Timber matting will be used through the wetland portion of the access road.



Photograph No. 12: Looking easterly at proposed access route toward Structure 288 to be replaced.



Photograph No. 13: Looking easterly at proposed access route through Wetland IW-19 toward Structure 288 to be replaced. Timber matting will be used through the wetland portion of the access road.



Photograph No. 14: Looking easterly at proposed work pad for Structure 288 to be replaced.



Photograph No. 15: Looking easterly at proposed access route through Wetland IW-18 toward Structure 287 to be replaced. Timber matting will be used through the wetland portion of the access road.



Photograph No. 16: Looking northerly at proposed access route through Wetland IW-16 toward Structure 287 to be replaced. Timber matting will be used through the wetland portion of the access road.



Photograph No. 17: Looking easterly at proposed access route through Wetland IW-15 toward Structure 284.

Timber matting will be used through the wetland portion of the access road.



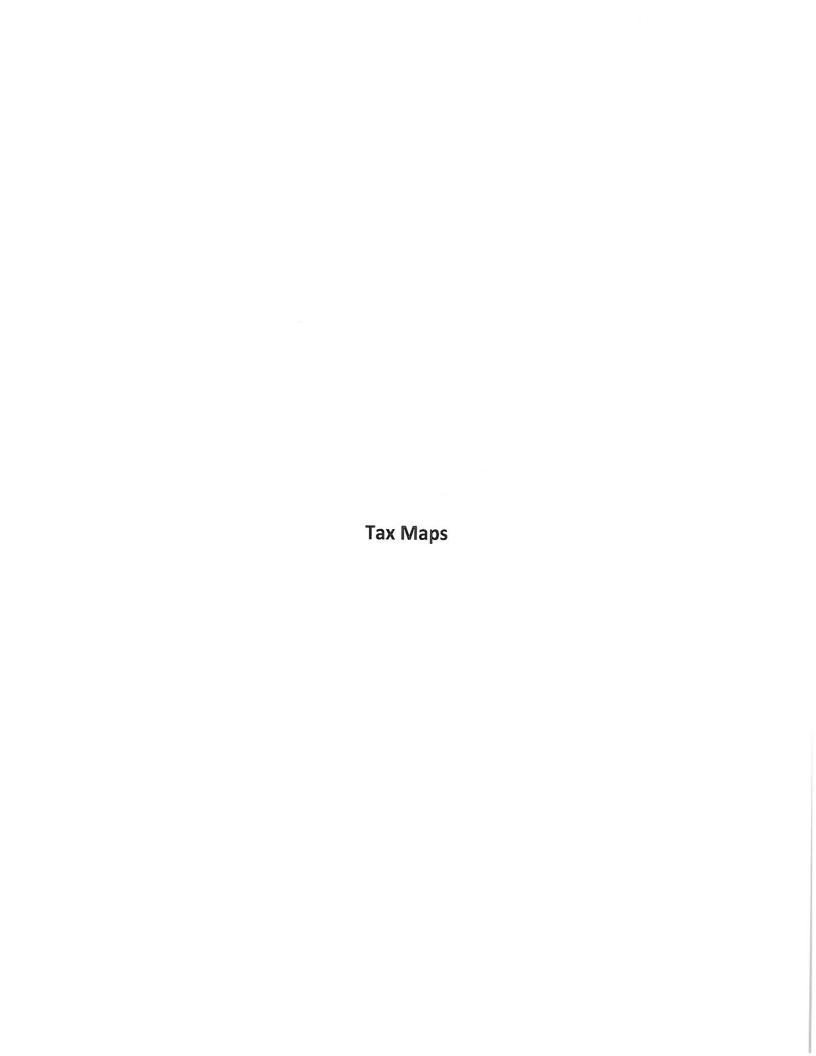
Photograph No. 18: Looking northwesterly at proposed access route through Wetland IW-15.

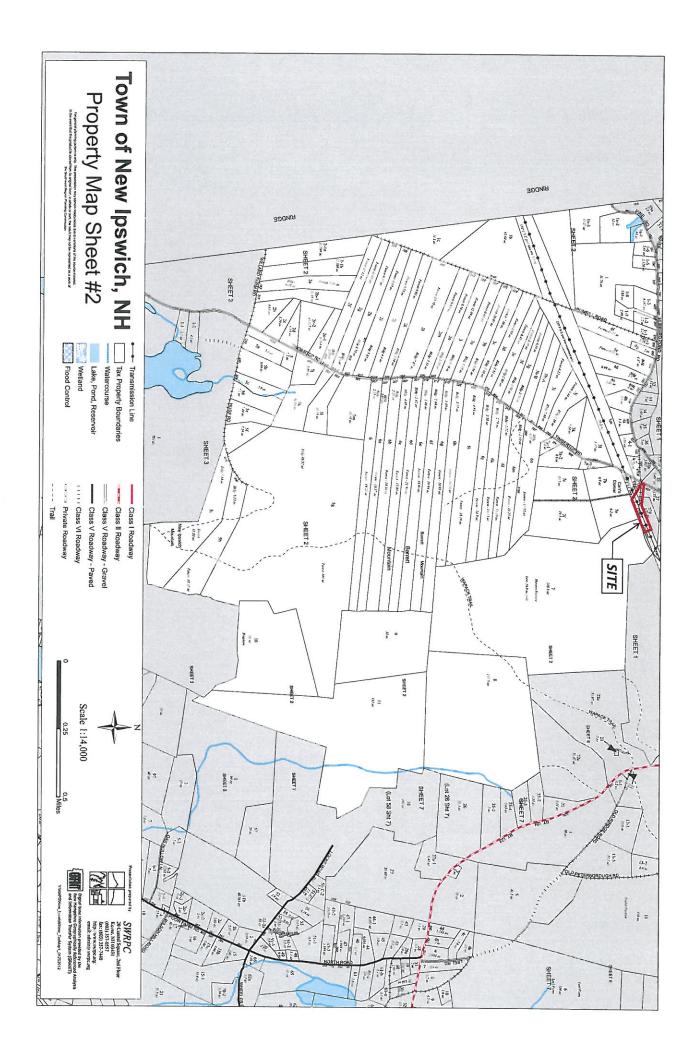


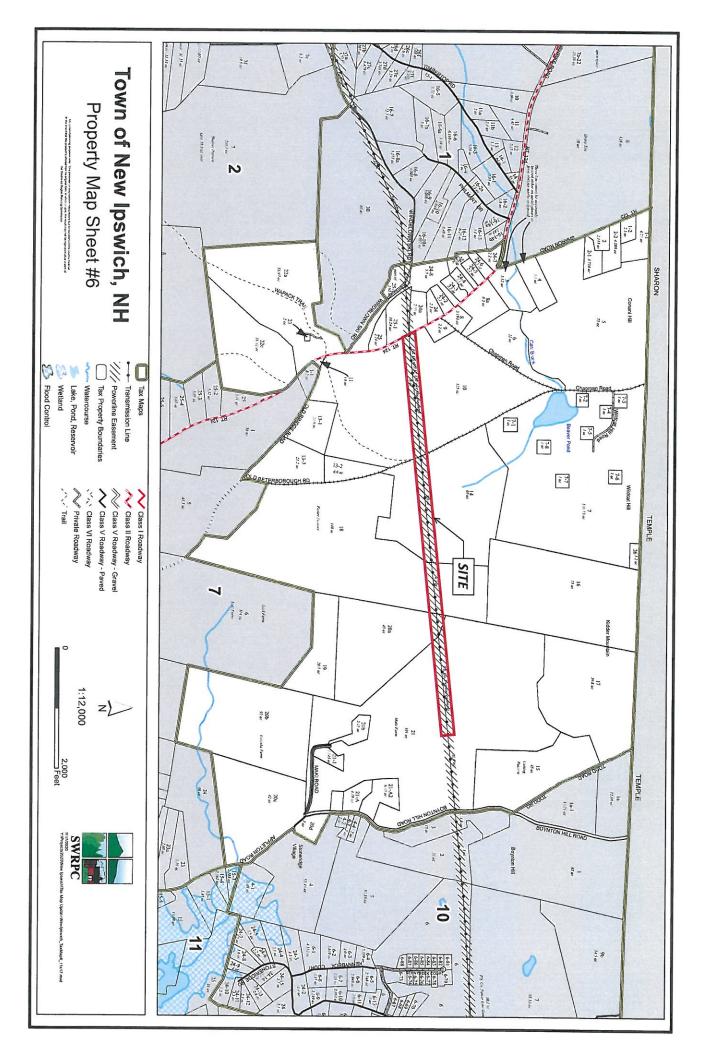
Photograph No. 19: Looking easterly at proposed access route through Wetland IW-14 toward Structure 283 to be replaced. Timber matting will be used through the wetland portion of the access road.

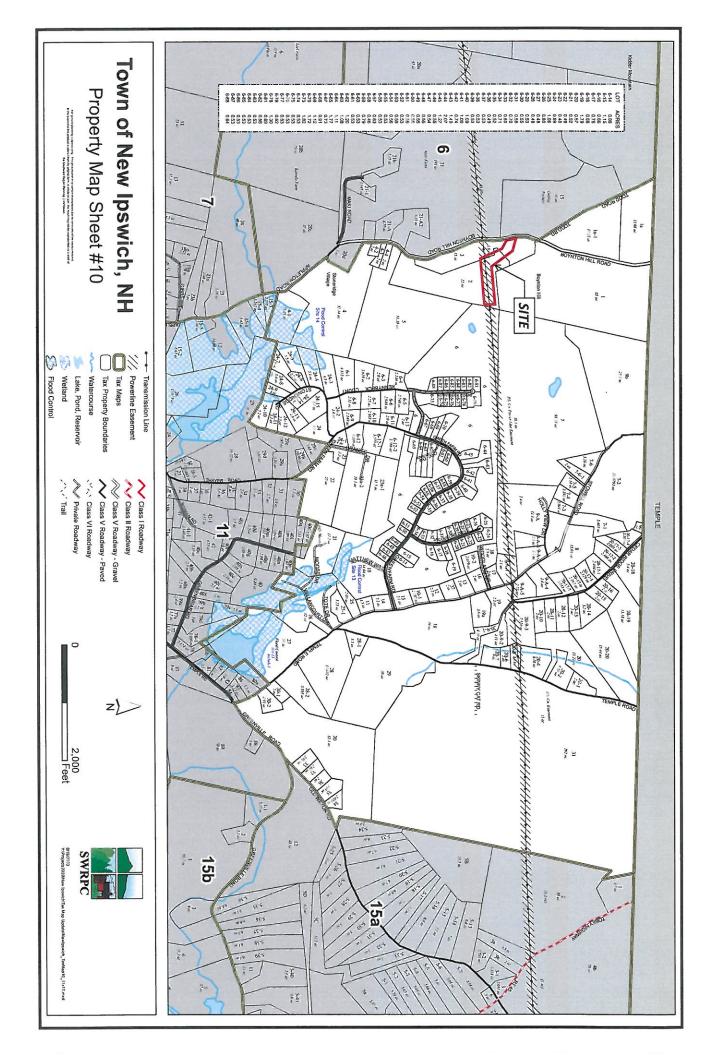


Photograph No. 20: Looking northeasterly at Wetland IW-13.1 (left) and Structure 283 (right) to be replaced.

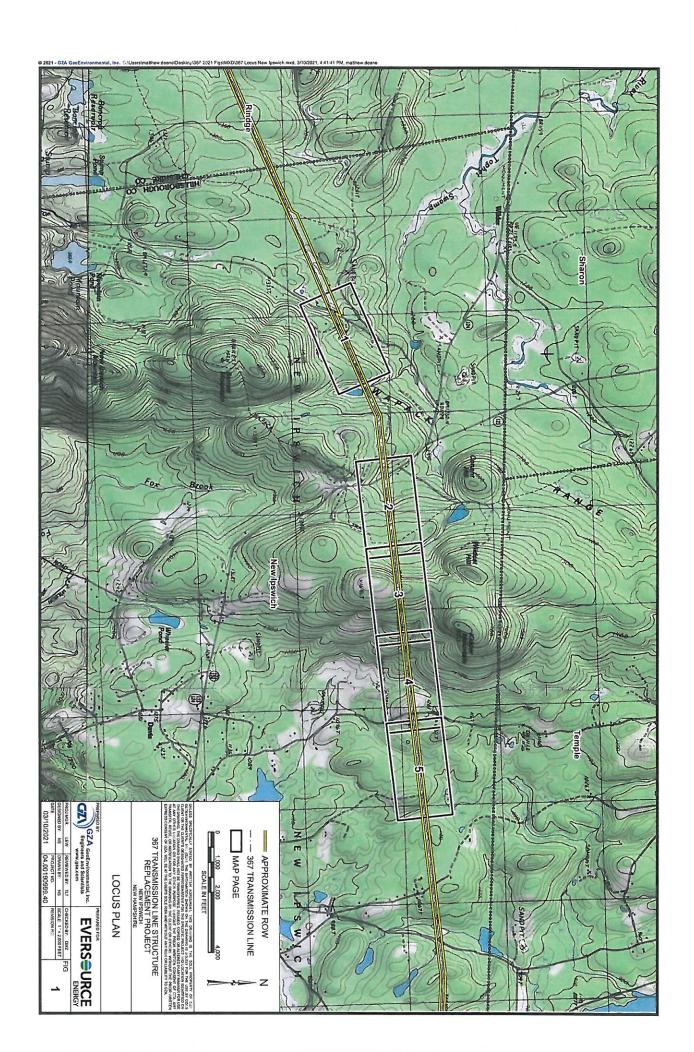












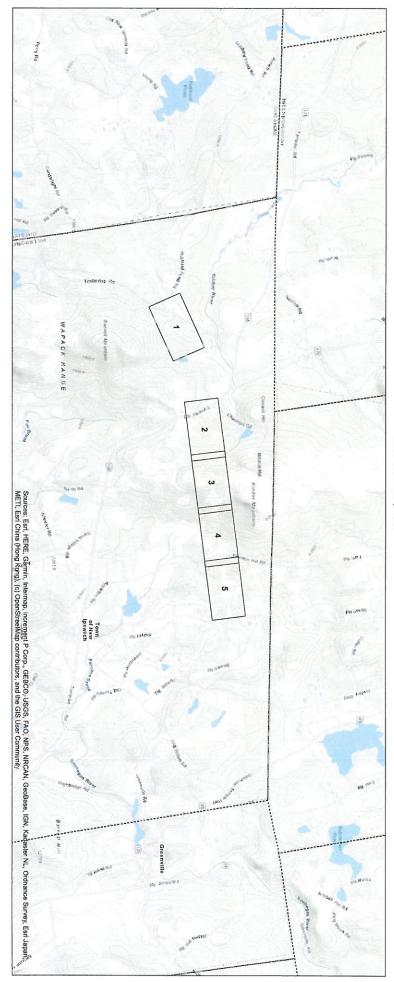


367 Transmission Line - Structure Replacement Project

NEW IPSWICH, NEW HAMPSHIRE Environmental Resources Map

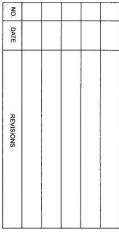
DRAFT Map Set

Date: March 24, 2021

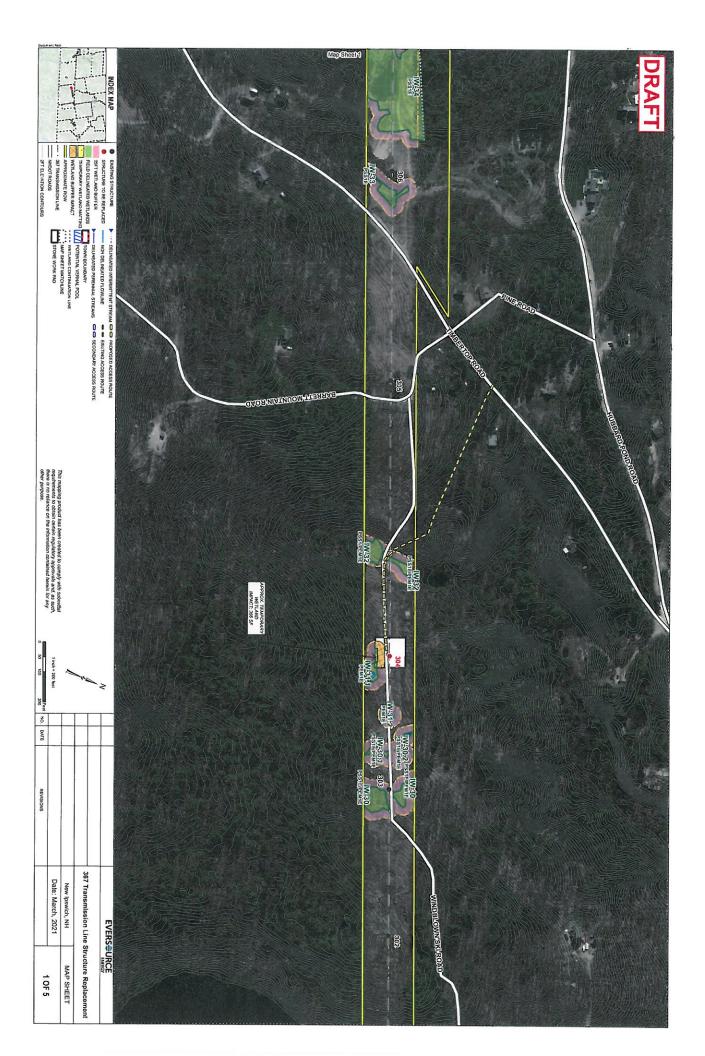


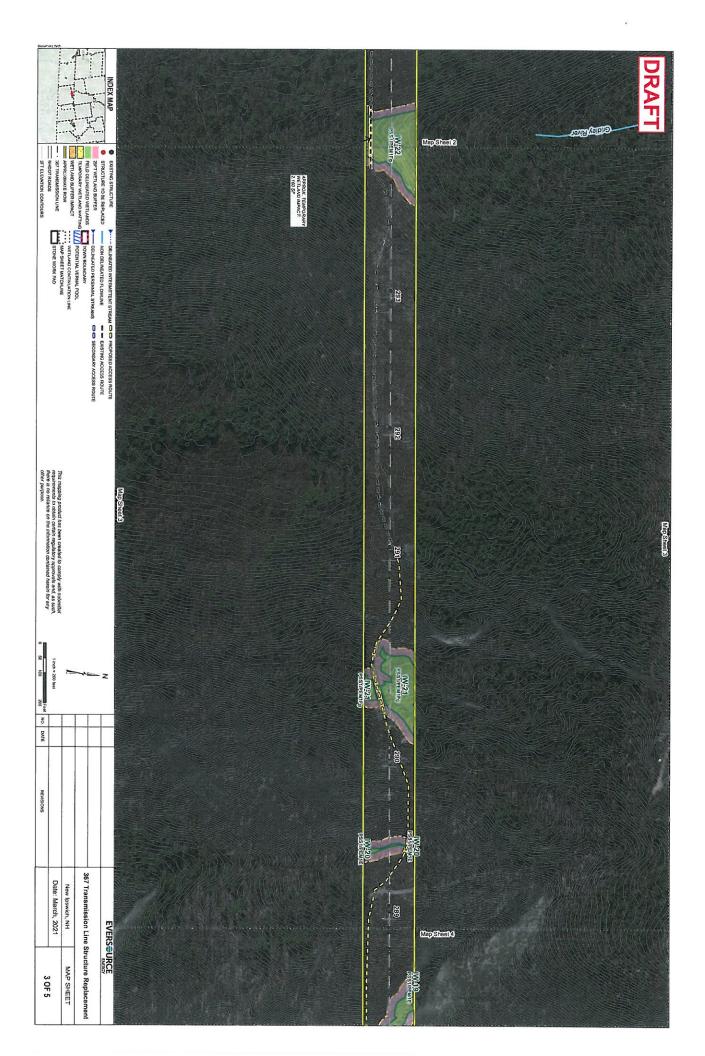


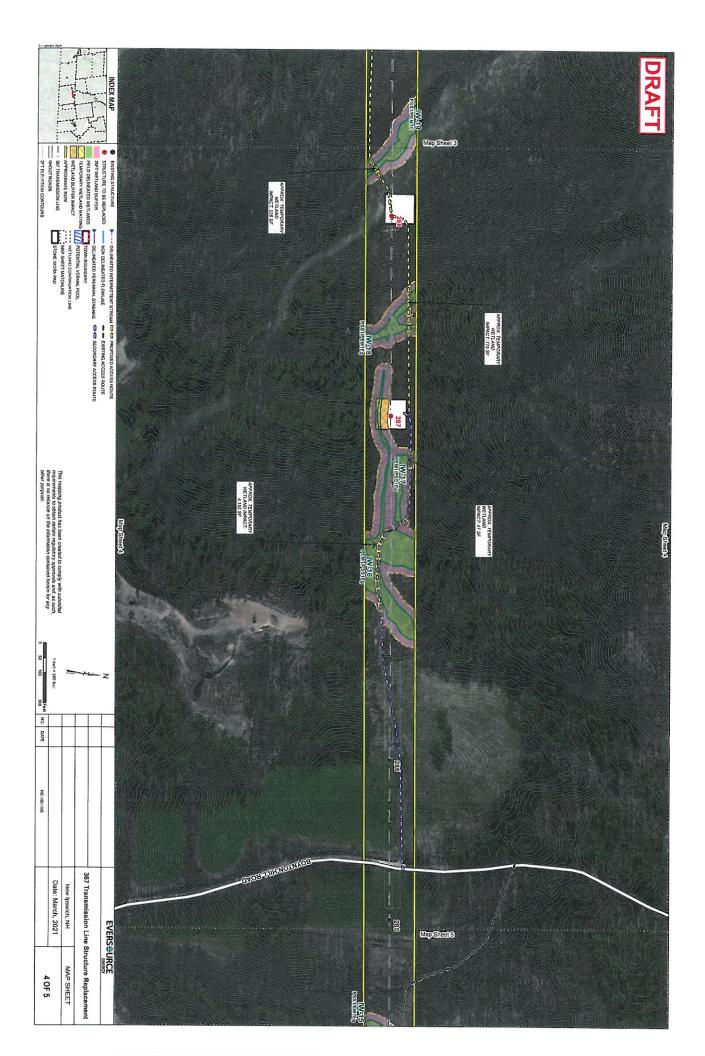


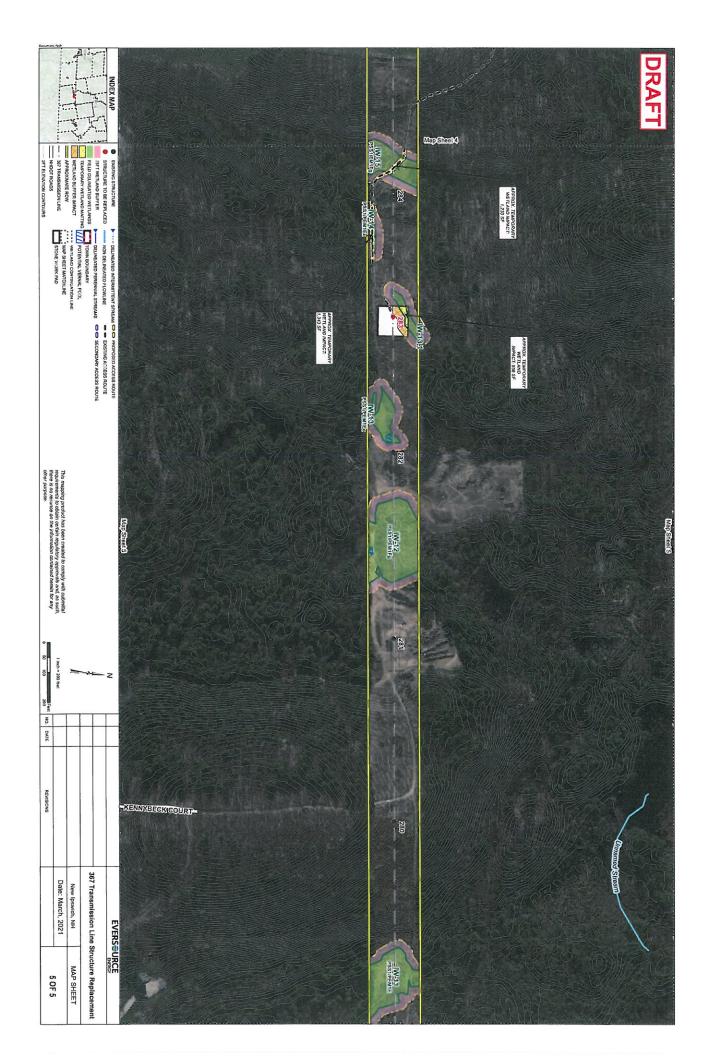












- 1. WETLAND BOUNDARIES TO BE CLEARLY MARKED PRIOR TO THE START OF CONSTRUCTION
- 2. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL PROVIDED, AS NECESSARY,
- WETLAND IMPACTS ASSOCIATED WITH WETLAND CROSSINGS ARE REQUIRED FOR ACCESS BETWEEN STRUCTURES WITHIN THE RIGHT OF WAY CONSTRUCTION ACTIVITIES SHALL OCCUR DURING PERIODS OF LOW FLOW.
- ONEQUAIT PRECAUTION SHALL BE EXERCISED TO AVOID SPILLAGE OF FUEL DUIS, CHEMICALS, OR SMILLAR SUBSTANCES; NO FUELS, LUBRICANTOS, CHEMICALS OR SMILLAR SUBSTANCES, NO FUELS, LUBRICANTOS, CHEMICALS OR IN THE VICINITY OF AVOY WELT STREAM OR OTHER BOOK WHERE SOR IN THE VICINITY OF AVOY WELT STREAM OR OTHER BOOK OF AVOIDED THE VICINITY OF AVOY WELT STREAM OR OTHER BOOK OF THE FOLLOW OF THE VICINITY OF AVOIDED TO A WET LAND, KIVER, STREAM OR OTHER BOOY OF WATER WELT SHALL BE STORED, MAINTAINED, OR
- REMOVE COMPLETELY ALL CONTAMINATION FROM ANY SPILLAGE OF CHEMICALS OR PETROLEUM PRODUCT WITH COMPLETE REHABILITATION OF THE AFFECTED AREA.
- ACCESS ROUTES HAVE BEEN SELECTED TO PREVENT DEGRADATION OF THE RIGHT-OF-WAY AND MINIMIZE ENVIRONMENTAL IMPACT. ALL OPERATIONS SHALL BE COMPANDED TO THE PREOFIED ACCESS ROUTES WITHIN THE PROPOSED WETLAND IMPACT AREA. ALL ACCESS ROUTES SHALL NOT. EXCEED A 16 FOOT-WIDTH.
- 7. IMPACT TO VEGETATION WITHIN WETLANDS WILL BE LIMITED TO THE EXTENT NECESSARY TO PLACE THE TIMBER MATS WHERE REQUIRED.
- ALLIOW GROWING VARIETIES OF VEGETATION ADJACENT TO WETLANDS SHALL BE PRESERVED TO THE EXTENT POSSIBLE. STUMPS AND ROCKS SHALL NOT DE REMOVED AND THERE SHALL BE NO EXCAVATIONS, FILLS OR GRADING DONE ADJACENT TO WETLANDS, UNLESS MINOR EXCAVATIONS IS NEEDED FOR ACCESS.
- TIMBER MATS WILL BE USED ALONG ALL ACCESS ROUTES WITHIN WETLAND AREAS, THESE MATS ARE CONSTRUCTED OF HEAVY TIMBERS OR COMPOSITE MATERIAL, BOLDED TOGETHER, AND AGE PACCED END TOGED 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.
- O IF TIMBER MAT BUP IS NOT SUFFICIENT DUE TO HIGH WATER, ADDITIONAL BUPS MAY INCLIDE THE PLACEMENT OF GEOTEXTILE FABRIC, 3"-4" STONE AND GRAVEL TO PROVUDE A SUTMEDIA THE RODRARY CULVERT MAY BE REQUIRED IN AREAS OF HIGH FLOW TO MAINTAIN HYDROLOGIC CONNECTIVITY, ALL MATERIAL WILL BE REMOVED FROM JURISDICTIONAL AREAS AFTER CONSTRUCTION COMPLETION. LUPLAND ACCESS ROUTES SHALL BE CONSTRUCTED USING CLEAN GRAVEL AND STONE AND GRADED AS NECESSARY TO PROVIDE SAFE ACCESS. TO UTILITY POLES WITHIN THE ROW UPLAND ACCESS ROUTES SHALL NOT EXCEED A 18 FCOT-WIDTH. WATER BARS WILL BE CONSTRUCTED AS NECESSARY DEFENDENT UPON TOPOGRAPHY AND MAINTAINED THROUGHOUT CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION, WATER BARS SHALL BE LEFT IN PLACE.
- 13. NO MATERIAL SHALL BE TAKEN FROM THE WETLANDS AREA EXCEPT THAT WHICH NUST NECESSARILY BE REMOVED FOR THE STRUCTURE OR FOUNDATION PLACEMENT OR STABILIZATION. ALL EXCESS MATERIAL TAKEN FROM THE WETLAND WILL BE REMOVED FROM THE SITE. . 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.
- 14 ANY PROPOSED SUPPORT FILLS SHALL BE CLEAN GRAVEL AND STONE, FREE OF WASTE METAL PRODUCTS, ORGANIC MATERIALS AND SIMLAR 14 ANY PROPOSED SUPPORT FILLS SHALL BE CLEAN GRAVEL AND SIMLAR FILL STREED BY AND SIMLAR AFTER CONSTRUCTION. ALL CUT AND FILLS SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- 15. INSTALL NEW POLES IN THE LOCATIONS DESIGNATED ON THE PERMITTING PLANS.
- 16. CABLE 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.
- 17. REMOVAL OF THE OLD POLE WILL OCCUR ONCE THE CABLE HAS BEEN INSTALLED ON THE NEW STRUCTURE. THE OLD STRUCTURES WILL BE REMOVED FROM THE SITE. POLES WILL BE CUT AT THE GROUND SURFACE IN WETLAND AREAS AND LEFT IN PLACE.
- 18. ALL TIMBER MATS, MATERIAL, AND DEBRIS WILL BE REMOVED FROM THE WORK AREA UPON THE COMPLETION OF CONSTRUCTION.
- 19. UPLAND WORK PAD RESTORATION SHOULD INCLUDE REDUCING THE WORK PAD TO A 39 BY 60 FOOT AREA, AND REDUCING SLOPES TO A MAXIMUM OF 25%. STOCKPILED MATERIAL SHOULD BE SPREAD TO REDUCE ANY UNINECESSARY SLOPES. GRAVEL WORK PADS AND SLOPES SHOULD BE SCARIFIED TO A MINIMUM OF 3" BEFORE SPREADING TOPSOILLOM.
- 20. UPLAND GRAVEL ACCESS ROUTES SHALL BE MAINTAINED UPON COMPLETION OF CONSTRUCTION. AS NECESSARY, STOCKPILED MATERIAL WILL BE SPREAD OVER GRAVEL ROAD FOR RESTORATION.
- 21 ALL TEMPORARY METLAND IMPACTS WILL BE REGRADED TO ORIGINAL CONTOURS FOLLOWING CONSTRUCTION, NEW ENGLAND MOSTORES MONTH OF THE TRANSPORT OF THE TAMBERST, MAD 1002, 413-548-5000, OR EQUIVALENT SEED MIX SHALL BE APPLIED IN WETLAND AREAS THAT ARE NOT INVIOLATED, AS NECESSAR!
- ABRUPT TRANSITIONS BETWEEN GRAVEL UPLAND ACCESS AND REMOVED THERE MATS IN WETLANDS SHALL BE TAPERED BACK. 13-FOOT MINIMUM BUFFER STIPP FROM THE GRAVEL TRANSITION AREA SHOULD BE ESTABLISHED BY SCARIFYING STALLS BETWEED SUPPLACE. SEEDING AND MULCHING. IF SLOPES AT THE RESTORED TRANSITION AREA ARE GREATER THAN 15%, EROSION CONTROL BLANKET MAY BE INSTALLED. TO STABLIZE.
- 23. SEDIMENT AND EROSION CONTROL MEASURES WILL BE EVALUATED AND REMOVED IF NECESSARY UPON THE COMPLETION OF CONSTRUCTION.
- WHERE OPTIMAL TURTLE BREEDING AREAS OVERLAP WITH DISTURBANCE (AS DETERMINED BY AN ENVIRONMENTAL MONITOR), MINERAL SOILS
 WILL BE SCARIFIED TO ALLEWATE COMPACTION AND BECOME MORE SUITED FOR TURTLE BREEDING. 24. COMMERCIAL LOAM WILL NOT BE USED AS PART OF RESTORATION. ONLY IN-SITU TOPSOIL WILL BE USED TO RESTORE DISTURBED AREAS.
- WINTER CONSTRUCTION NOTES 26. NATURALLY VEGETATED LOCAL WETLAND BUFFER AREAS OUTSIDE OF EXISTING TRAILS MUST BE RESTORED UPON COMPLETION OF WORK
- ALL PROPOSED VEGETATED AREAS, WHICH DO NOT EXHIBIT A MINIMUM OF 58%, VEGETATIVE GROWTH BY COTORER 41TH, ON WHICH ARE DISTURBED AFTER OCTUBER 51TH, SHALL BE STABLIZED STEED WITH LING UNES SEEDING AND WITHOUTH AMOUNT OF THE STABLIZED STEED WITHOUTH AND STABLIZED AND SEEDING AND STABLIZED AND SEEDING AND STABLIZED AND SEEDING SEEDING AND SEEDING AND SEEDING AND SEEDING AND SEEDING AND SEEDI
- ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 45TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE TEMPORARILY STABILIZED WITH STONE OR EROSION CONTROL BLANKE IS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.

GENERAL NOTES: . 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 384.3).

OWNER:

- BASE PLAN PROVIDED BY EVERSOURCE ENERGY, EVERSOURCE ENERGY PROVIDED THE WETLAND DATA EVERSOURCE ENERGY PROVIDED THE UTILITY DESIGN.
- 3. GZA ENALIJATED WETLANDS AS POTENTIAL LJERNAL PODUS ON ALIGUST 12,5 16, å 17, 2016 IN ACCORDANGE WITH TIDENTIFICATION AND DOCUMENTATION OF VERNALE PODUS IN NEW HAMPSHIRE , 1997, NEW HAMPSHIRE FISH AND GAME DEPARTMENT, NONGAME AND ENDANGERED WILDLIFE PROGRAM.
- AS APPLICABLE, GZA WILL COMPLETE WETLANDS FUNCTION AND VALUES ASSESSMENT IN ACCORDANCE WITH THE ACOE'S "HIGHWAY METHODOLOGY WORKBOOK SUPPLEMENT," SEPTEMBER 1999.
- 5. SITE PLAN IS FOR PERMITTING PURPOSES ONLY AND DOES NOT REPRESENT A PROPERTY BOUNDARY SURVEY
- THE PROJECT WILL BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3500 RELATIVE TO INVASIVE SPECIES.
- INACCORANGE WITH ENVAWO 1986.02, THE SMALLEST PRACTICAL AREA SHALLED DISTURBED DURNING CONSTRUCTION, BUT IN NO CASE SHALL ESCEED SACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABLIZED, ANA PRES, SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:

 A MINIMALM SE PRICENT VEGETATED GROWTH HAS BEEN ESTABLISHED

 OR, EROSION CONTROL BLAKKETS HAVE BEEN PROPERTY INSTALLED.

 OR, EROSION CONTROL BLAKKETS HAVE BEEN PROPERTY INSTALLED.
- 8. ALL AREAS SHALL BE STABILIZED WITH 45 DAYS OF INITIAL DISTURBANCE.
- S. IN THE EYENT THATA ARAGE OR THREATENED SPECIES IS OBSERVED, THE INTW HAMPSHIRE ARD AME AND NEW HAMPSHIRE AND THAT ARAGE OF THREATENED SPECIES IN THE STROME AT EXAMPLE AND THROUGH THE BEGINNING OF JULY IF WOOD, BLANDINGS OR SPICITED THAT ES ARE FOUND AT MICE EGGS IN THE WOORK AREA, CONTACT THE DESCRIPTION OF THE WOORK AREA, CONTACT THE OWNER AREA, CONTACT THE WOORK AREA, CONTACT THE WO

EROSION CONTROL NOTES:

- INSTALATION 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 HEALTH STAND OF VEGETATION COVER. EROSION CONTROL MEASURES SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER .25° OR GREATER RAINFALL EVENTS.
- AS REQUIRED, CONSTRUCT TEMPORARY BERMS, SILTATION FENCES, SEDIMENT TRAPS, ETC. TO PREVENT EROSION & SEDIMENTATION OF WETLANDS.
- THE WORK AREA SHALL BE GRADED AND OTHERWISE SHAPED IN SUCH A MANUREAS TO MINIMIZE SOIL EROSION, SILTATION OF DEVALAGE TO HAVE AS TO EXISTENCE AS TO EX
- I, ANY STRIPPED TOPSOIL SHALL BE STOCKPILED, WITHOUT COMPACTION, AND STABILIZED AGAINST EROSION, AS NECESSARY.
- 5. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS, WHEN SEEDED AREAS ARE NOT MUCHED, 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 ANNUAL RYEGRASS PRIOR TO OCTOBER 15TH.
- 6. EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY HALF-INCH OF RAINFALL
- EROSION CONTROL MATTING, IF REQUIRED, WILL CONSIST OF JUTE MATTING, MATTING WITH WELDED PLASTIC OR BIODEGRADABLE PLASTIC NETTING OR THREAD WILL BE AVOIDED TO LIMIT UNINTENTIONAL MORTALITY TO SNAKES

ADDITIONAL RARE SPECIES BMPS

- 1. PRIOR TO DAILY CONSTRUCTION ACTIVITIES,
 TIMBER MATTING WILL BE REVIEWED FOR SNAKES
- AND TURTLES

 2. DESERVED SUMKES AND TURTLES WILL BE MOVED
 OFF OF CONSTRUCTION ACCESS ROADS TO LIMIT AND
 PREVENT MORRALITY TO SWAKES AND TURTLES

 3. DEROSION CONTROL MATTING, IF UTILEED, WILL CONSIST
 OF JUTE MATTING, MATTING WITH PLASTIC MESH WILL
 BE AVOIDED TO LIMIT UNINTENTIONAL MORTALITY
 TO SNAKES, ANY PARE SPECIES OBSERVATIONS WILL
 BE PROVIDED TO THE NIFER NONCAME PROGRAM,
 5. MRACTS TO VERMAL POOLS AND POTENTIAL VERNAL
 POOLS WILL BE AVOIDED.
- 367 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT

FITZWILLIAM, RINDGE, NEW IPSWICH, GREENVILLE, MILFORD BROOKLINE, AND AMHERST, NEW HAMPSHIRE

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PREPAR

Best Management Practices (BMP's) for Straw wattles

Definition and purpose:
Straw wattles are burlap rolls filled with straw that
trap sediment and interrupt water flow by reducing slope lengths.

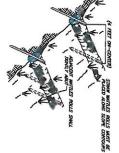
ong erodible or unstablizied slopes

arm drain inlets to slow water and settle out sediment

raw wattles are installed parallel to pe contours and perpendicular to ds approximately 6 inches

general range 10 - 25'). ing* - Dependent on slope length, ness and soil type

Trenching - 2"-5" inch trench Stacking - at each end and four foot on center (i.e. 25 foot wattle uses 6 stacks)





THUS OF JOH

NOTES (SILT FENCE)

1. THE HEIGHT OF THE BARRIER SHALL NOT EXEED 36 INCHES.

2. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6—INCH OVERLAP, AND SECURELY SEALED. SEE MANUFACTURER'S RECOMMENDATIONS.

3 POSTS SHALL BE PLACED AT A MAXIMUM OF 10 FEET, PART AT THE BARRIER LOCATION AND DRIVEN SECURELY WITO THE GROUND (MIMIMUM OF 12 MOCHES) WHEN EXTRAS STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL BE AS MANUFACTUREN RECOMMENDS.

4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 6 INCHES WIDE AND 6 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE OF THE BARRIER IN ACCORDANCE WITH RECOMMENDATIONS

5. THE FABRIC SHALL NOT EXTEND MORE THAN 38 INCHES ABOVE THE DRIGHAL GROUND SURFACE. AND WILL EXTEND A MINIMUM OF 8 INCHES INTO THE TRENCH. FILTEN FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.

6. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.

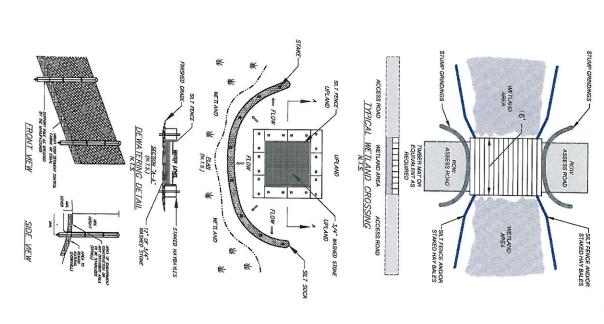
T, FABRIC BARRIERS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

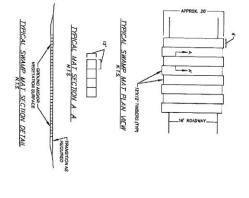
8. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST ONCE DAILY DURING PROLONGED RAINFALL AND ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

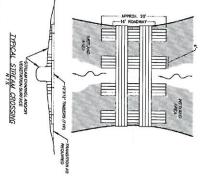
). SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

0. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE—HALF THE HEIGHT OF THE BARRIER

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO ONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED







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367 TRANISMISSION LINE STRUCTURE REPLACEMENT PROJECT FITZWILLIAM, RINDGE. NEW PROWNCH, GREENVILLE MILFORD, BROOKLINE, AND AMHERST, NEW HAMPSHIRE

DETAILS

GZA GeoEnvironmental, Inc.
Engineers and Scientists
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PROJECT NO. 04.0190999.40 SHEET

02/24/2021 IGNED BY: MJD DRAWN BY: